New Jersey
ACCUTEST
LABORATORIES

Misc. Raw Data

Raw Data

ACCUTEST

Methanol Prep Log

Vial Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By:	Vial Desc:	Comments
10/4/2010-338	JA58900-1	30.6700	39.8700	9.2000	10/4/2010	di	jp	DI water	
10/4/2010-337	JA58900-1	30.4300	39.4400	9.0100	10/4/2010	di	jp	DI water	
10/1/2010-85	JA58900-1	36.8900	47.9100	11.0200	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-320	JA58900-1	30.4900	40.2100	9.7200	10/4/2010	di	jp	DI water	
10/4/2010-319	JA58900-1	30.6400	41.4000	10.7600	10/4/2010	di	jp	DI water	
10/1/2010-88	JA58900-1	36.9400	45.7100	8.7700	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-326	JA58900-1	30.5700	39.7500	9.1800	10/4/2010	di	jp	DI water	
10/4/2010-325	JA58900-1	30.6200	40.9700	10.3500	10/4/2010	di	jp	DI water	
10/1/2010-95	JA58900-1	36.6500	47.7700	11.1200	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-343	JA58900-1	30.5900	40.5200	9.9300	10/4/2010	di	jp	DI water	
10/4/2010-344	JA58900-1	30.8700	41.4300	10.5600	10/4/2010	di	jp	DI water	
10/1/2010-78	JA58900-1	36.6700	46.6700	10.0000	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-350	JA58900-1	30.6500	30.6500	0.0000	10/4/2010	di	jp	DI water	
10/4/2010-359	JA58900-1	30.6200	40.3200	9.7000	10/4/2010	di	jp	DI water	
10/4/2010-360	JA58900-1	30.6100	39.7400	9.1300	10/4/2010	di	jp	DI water	
10/1/2010-94	JA58900-1	36.8300	36.8000	-0.0300	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-346	JA58900-2	30.6200	42.2000	11.5800	10/4/2010	di	jp	DI water	
10/4/2010-345	JA58900-2	30.6200	40.9700	10.3500	10/4/2010	di	jp	DI water	
10/1/2010-96	JA58900-2	36.7000	47.2700	10.5700	10/1/2010	h45e36	nt	10ml MeOH	
10/1/2010-77	JA58900-3	36.5600	46.5000	9.9400	10/1/2010	h45e36	nt	10ml MeOH	

ACCUTEST

Methanol Prep Log

Vial Track #:	Lims ID:	Initial Tare Wt (g)	Total Wt (g)	Weight of Sample (g)	Date Prepared	Lot #:	Prep By:	Vial Desc:	Comments
10/1/2010-79	JA58900-3	36.6600	46.6100	9.9500	10/1/2010	h45e36	nt	10ml MeOH	
10/1/2010-80	JA58900-3	36.9000	47.6600	10.7600	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-354	JA58900-3	30.5400	40.7200	10.1800	10/4/2010	di	jp	DI water	
10/4/2010-358	JA58900-3	30.5000	41.0300	10.5300	10/4/2010	di	jp	DI water	
10/4/2010-355	JA58900-3	30.6600	41.4200	10.7600	10/4/2010	di	jp	DI water	
10/4/2010-353	JA58900-3	30.5000	40.3900	9.8900	10/4/2010	di	jp	DI water	
10/4/2010-357	JA58900-3	30.5500	40.0800	9.5300	10/4/2010	di	jp	DI water	
10/4/2010-356	JA58900-3	30.5000	41.3900	10.8900	10/4/2010	di	jp	DI water	
10/4/2010-341	JA58900-4	30.6700	40.0100	9.3400	10/4/2010	di	jp	DI water	
10/4/2010-342	JA58900-4	30.8500	40.2600	9.4100	10/4/2010	di	jp	DI water	
10/1/2010-93	JA58900-4	36.6000	46.1300	9.5300	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-333	JA58900-7	30.4400	46.6900	16.2500	10/4/2010	di	jp	DI water	
10/4/2010-334	JA58900-7	30.6500	43.2700	12.6200	10/4/2010	di	jp	DI water	
10/1/2010-101	JA58900-7	36.7000	44.0400	7.3400	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-348	JA58900-8	30.6000	41.0300	10.4300	10/4/2010	di	jp	DI water	
10/4/2010-347	JA58900-8	30.5700	42.7900	12.2200	10/4/2010	di	jp	DI water	
10/1/2010-98	JA58900-8	36.7700	46.8600	10.0900	10/1/2010	h45e36	nt	10ml MeOH	
10/4/2010-335	JA58900-9	30.8900	43.0400	12.1500	10/4/2010	di	jp	DI water	
10/4/2010-336	JA58900-9	30.6900	40.6000	9.9100	10/4/2010	di	jp	DI water	
10/1/2010-89	JA58900-9	36.7700	47.5900	10.8200	10/1/2010	h45e36	nt	10ml MeOH	

ACCUTEST LABORATORIES

01/21/11

Technical Report for

AECOM, INC.

Bell Bend Nuclear Power Plant, Salem Township, PA

60160208

Accutest Job Number: JA58900A

Sampling Dates: 10/13/10 - 10/14/10

Report to:

AECOM, INC.
2 Technology Park Drive
Westford, MA 01886
andrea.mischel@aecom.com

ATTN: Dion Lewis

Total number of pages in report: 191

Accredited in accordance with nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Test results relate only to samples analyzed.

Sample Summary

AECOM, INC.

Job No: JA58900A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Collected Date	Collected Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JA58900-1T	10/14/10	12:30	MH	10/14/10	SO	Soil	BBNPP-D2
JA58900-2T	10/14/10	12:45	MH	10/14/10	SO	Soil	BBNPP-D1-C
JA58900-3DT	10/14/10	12:20	MH	10/14/10	SO	Soil Dup/MSD	BBNPP-R-C-MSD
JA58900-3ST	10/14/10	12:20	MH	10/14/10	SO	Soil Matrix Spike	BBNPP-R-C-MS
JA58900-3T	10/14/10	12:20	MH	10/14/10	SO	Soil	BBNPP-R-C
JA58900-4T	10/14/10	12:45	MH	10/14/10	SO	Soil	BBNPP-CW22-C
JA58900-5T	10/14/10	15:01	MH	10/14/10	AQ	Equipment Blank	BBNPP-C-EB
JA58900-6T	10/14/10	15:35	MH	10/14/10	AQ	Field Blank Soil	BBNPP-PB
JA58900-7T	10/13/10	14:17	MH	10/14/10	SO	Soil	BBNPP-CW4-C
JA58900-8T	10/13/10	15:10	MH	10/14/10	SO	Soil	BBNPP-CW7-C
JA58900-9T	10/13/10	15:30	MH	10/14/10	SO	Soil	BBNPP-CW10-C
JA58900-10T	10/13/10	15:49	MH	10/14/10	SO	Soil	BBNPP-CW13-C
JA58900-11T	10/13/10	16:10	MH	10/14/10	SO	Soil	BBNPP-CW16-C

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

AECOM, INC.

Job No: JA58900A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JA58900-12T	10/13/10	16:32 MH	10/14/10	SO	Soil	BBNPP-CW19-C
JA58900-13T	10/14/10	15:35 MH	10/14/10	SO	Trip Blank Soil	T101410
JA58900-14T	10/14/10	12:45 MH	10/14/10	SO	Soil	BBNPP-D1-CFD
JA58900-15T	10/14/10	15:35 MH	10/14/10	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

ACCUTEST LABORATORIES

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JA58900A

ACCUTEST LABORATORIES

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Section IV - Additional Data From Extract Reanalysis

Case Narrative: Accutest Job No. JA58900A
Semi-Volatile Extract Re-Analysis for Reporting Limit Verification

Semi-volatile organic sample extracts from JA58900 were reconstituted and re-analyzed by GC/MS to verify the reporting limit concentrations reported for the re-processed semi-volatile organic data files from the original sample extract analysis. Appendix IX standard solutions were analyzed with the sample extracts to verify the sensitivity of the instrument and the reporting limits detailed for the specific target compounds that were omitted from the initial data report.

Raw instrument data is provided for the analysis of the standards solutions and the reconstituted sample extracts. All samples extracts and standards were analyzed on GC/MS Instrument 3P

All extracts required solvent addition to some extent. However, Sample extracts JA58900-3, 7, 11 and 12 were completely dry. The extracts for samples JA58900-1, 2, 4, 7, 8, 9, 14 and 10 were less than 50% of the original final volume prior to reconstitution.

Appendix IX semi-volatile standard solutions were analyzed at nominal concentrations of 2.0ppb and 5.0ppb to verify instrument sensitivity, re-establish retention times and relative retention time windows. The standards analysis verified that the reporting limits for the reprocessed data were reasonable.

Case Narrative: Accutest Job No. JA58900
Semi Quantitative Determination of Missing Target Compounds

Volatile organic and semi-volatile organic data files from the analysis of samples from Accutest Job JA58900 were computer processed to determine the presence or absence of specific target compounds that were omitted from the initial data report. Qualitative and semi-quantitative analysis was performed using previously generated calibration data for the compounds of interest that were updated using a single point calibration check if possible to re-establish retention times of the individual target compounds.

The samples for volatile organics were initially analyzed on two different instruments, MSS and MSV. Older calibration data for the majority compounds of interest was available on instrument MSV. However, calibration data from another GC/MS instrument, MS1B - an EPA 524 volatile organics calibration, was used for one compound. The calibration data used for individual compounds on each instrument are blocked for identification.

The calibration data from instruments MSV and MS1B were combined and used to create a new method that was applied to the volatile organics data from the initial sample analysis. Standard reference materials were not immediately available to confirm the retention time of the compounds of interest on the instruments used for the initial analysis. As a result, an expanded retention time search window was employed during the search and quantitation process to compensate for potential retention time differences.

The samples for semi-volatile organics were initially analyzed on two different instruments, MS2P and MS3P. Previously determined calibration data for the compounds of interest were not available on either instrument. Accordingly, calibration data from another GC/MS instrument; MSP was used to address all compounds of interest.

The calibration retention times of the Semi-volatile compounds of interest were updated by analyzing a single point calibration check and using that retention time to establish the search windows used for reprocessing the original sample data files.

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RESULTS FOR JA58900A

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D2		
Lab Sample ID:	JA58900-1T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	75.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108365T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.6		ug/kg	
108-94-1	Cyclohexanone	ND	140	8.0	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.6	0.069	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.6	0.92	ug/kg	
75-68-3	Freon 142B	ND	3.6	0.89	ug/kg	
96-33-3	Methyl Acrylate	ND	3.6	0.31	ug/kg	
25013-15-4	Vinyltoluene	ND	3.6		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		67-127%
17060-07-0	1,2-Dichloroethane-D4	92%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	135%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D2		
Lab Sample ID:	JA58900-1T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	75.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P728R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	190	43	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	190	34	ug/kg	
92-67-1	4-Aminobiphenyl	ND	190	18	ug/kg	
510-15-6	Chlorobenzilate	ND	190	23	ug/kg	
2303-16-4	Diallate	ND	190	29	ug/kg	
122-39-4	Diphenylamine	ND	190	30	ug/kg	
99-65-0	m-Dinitrobenzene	ND	190	38	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	190	25	ug/kg	
98-01-1	Furfural	ND	190		ug/kg	
143-50-0	Kepone	ND	1100	190	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	190	4.8	ug/kg	
66-27-3	Methyl methanesulfonate	ND	190	24	ug/kg	
134-32-7	1-Naphthylamine	ND	190	25	ug/kg	
91-59-8	2-Naphthylamine	ND	190	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	190	39	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	190	26	ug/kg	
608-93-5	Pentachlorobenzene	ND	190	29	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	190	65	ug/kg	
62-44-2	Phenacetin	ND	190	41	ug/kg	
23950-58-5	Pronamide	ND	190	34	ug/kg	
95-53-4	o-Toluidine	ND	190	29	ug/kg	
106-49-0	p-Toluidine	ND	190		ug/kg	
108-44-1	m-Toluidine	ND	190		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		30-109%
4165-62-2	Phenol-d5	33%		28-108%
118-79-6	2,4,6-Tribromophenol	42%		28-125%
4165-60-0	Nitrobenzene-d5	40%		28-113%
321-60-8	2-Fluorobiphenyl	45%		38-107%
1718-51-0	Terphenyl-d14	49%		31-116%

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ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D1-C		
Lab Sample ID:	JA58900-2T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	68.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108366T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	10.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.5		ug/kg	
108-94-1	Cyclohexanone	ND	140	7.9	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.5	0.068	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.5	0.91	ug/kg	
75-68-3	Freon 142B	ND	3.5	0.87	ug/kg	
96-33-3	Methyl Acrylate	ND	3.5	0.30	ug/kg	
25013-15-4	Vinyltoluene	ND	3.5		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		67-127%
17060-07-0	1,2-Dichloroethane-D4	105%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	114%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D1-C		
Lab Sample ID:	JA58900-2T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	68.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P734R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	210	47	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	210	37	ug/kg	
92-67-1	4-Aminobiphenyl	ND	210	20	ug/kg	
510-15-6	Chlorobenzilate	ND	210	25	ug/kg	
2303-16-4	Diallate	ND	210	33	ug/kg	
122-39-4	Diphenylamine	ND	210	33	ug/kg	
99-65-0	m-Dinitrobenzene	ND	210	42	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	210	27	ug/kg	
98-01-1	Furfural	ND	210		ug/kg	
143-50-0	Kepone	ND	1200	210	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	210	5.4	ug/kg	
66-27-3	Methyl methanesulfonate	ND	210	27	ug/kg	
134-32-7	1-Naphthylamine	ND	210	28	ug/kg	
91-59-8	2-Naphthylamine	ND	210	27	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	210	43	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	210	29	ug/kg	
608-93-5	Pentachlorobenzene	ND	210	32	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	210	72	ug/kg	
62-44-2	Phenacetin	ND	210	45	ug/kg	
23950-58-5	Pronamide	ND	210	38	ug/kg	
95-53-4	o-Toluidine	ND	210	32	ug/kg	
106-49-0	p-Toluidine	ND	210		ug/kg	
108-44-1	m-Toluidine	ND	210		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		30-109%
4165-62-2	Phenol-d5	36%		28-108%
118-79-6	2,4,6-Tribromophenol	60%		28-125%
4165-60-0	Nitrobenzene-d5	47%		28-113%
321-60-8	2-Fluorobiphenyl	54%		38-107%
1718-51-0	Terphenyl-d14	68%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-R-C		
Lab Sample ID:	JA58900-3T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	74.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108352T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	10.8 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.1		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.9	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.1	0.059	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.1	0.80	ug/kg	
75-68-3	Freon 142B	ND	3.1	0.77	ug/kg	
96-33-3	Methyl Acrylate	ND	3.1	0.26	ug/kg	
25013-15-4	Vinyltoluene	ND	3.1		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		67-127%
17060-07-0	1,2-Dichloroethane-D4	102%		65-132%
2037-26-5	Toluene-D8	106%		74-129%
460-00-4	4-Bromofluorobenzene	147%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-R-C		
Lab Sample ID:	JA58900-3T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P705R.D	1	11/01/10	KLS	10/25/10	OP46332	E3P33
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	190	44	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	190	34	ug/kg	
92-67-1	4-Aminobiphenyl	ND	190	19	ug/kg	
510-15-6	Chlorobenzilate	ND	190	23	ug/kg	
2303-16-4	Diallate	ND	190	30	ug/kg	
122-39-4	Diphenylamine	ND	190	31	ug/kg	
99-65-0	m-Dinitrobenzene	ND	190	39	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	190	25	ug/kg	
98-01-1	Furfural	ND	190		ug/kg	
143-50-0	Kepone	ND	1100	190	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	190	4.9	ug/kg	
66-27-3	Methyl methanesulfonate	ND	190	24	ug/kg	
134-32-7	1-Naphthylamine	ND	190	26	ug/kg	
91-59-8	2-Naphthylamine	ND	190	25	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	190	39	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	190	27	ug/kg	
608-93-5	Pentachlorobenzene	ND	190	30	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	190	66	ug/kg	
62-44-2	Phenacetin	ND	190	41	ug/kg	
23950-58-5	Pronamide	ND	190	35	ug/kg	
95-53-4	o-Toluidine	ND	190	29	ug/kg	
106-49-0	p-Toluidine	ND	190		ug/kg	
108-44-1	m-Toluidine	ND	190		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		30-109%
4165-62-2	Phenol-d5	39%		28-108%
118-79-6	2,4,6-Tribromophenol	67%		28-125%
4165-60-0	Nitrobenzene-d5	48%		28-113%
321-60-8	2-Fluorobiphenyl	55%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW22-C		
Lab Sample ID:	JA58900-4T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	78.1
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108367T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.3 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.4		ug/kg	
108-94-1	Cyclohexanone	ND	140	7.7	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.4	0.066	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.4	0.89	ug/kg	
75-68-3	Freon 142B	ND	3.4	0.85	ug/kg	
96-33-3	Methyl Acrylate	ND	3.4	0.29	ug/kg	
25013-15-4	Vinyltoluene	ND	3.4		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	95%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	112%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW22-C		
Lab Sample ID:	JA58900-4T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.1
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P735R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	42	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	29	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	25	ug/kg	
91-59-8	2-Naphthylamine	ND	180	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	38	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	26	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	63	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	28	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		30-109%
4165-62-2	Phenol-d5	38%		28-108%
118-79-6	2,4,6-Tribromophenol	63%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	54%		38-107%
1718-51-0	Terphenyl-d14	80%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-C-EB		
Lab Sample ID:	JA58900-5T	**Date Sampled:**	10/14/10
Matrix:	AQ - Equipment Blank	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108527T.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/l	
109-69-3	1-Chlorobutane	ND	5.0		ug/l	
108-94-1	Cyclohexanone	ND	50	25	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	0.21	ug/l	
140-88-5	Ethyl Acrylate	ND	5.0	2.9	ug/l	
96-33-3	Methyl Acrylate	ND	5.0	0.90	ug/l	
25013-15-4	Vinyltoluene	ND	5.0		ug/l	
75-68-3	1-chloro-1,1-difluoroethane	ND	5.0	0.71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	93%		64-135%
2037-26-5	Toluene-D8	104%		76-117%
460-00-4	4-Bromofluorobenzene	88%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-C-EB		
Lab Sample ID:	JA58900-5T	**Date Sampled:**	10/14/10
Matrix:	AQ - Equipment Blank	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F92534A.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	5.3	1.1	ug/l	
53-96-3	2-Acetylaminofluorene	ND	5.3	0.66	ug/l	
92-67-1	4-Aminobiphenyl	ND	5.3	0.68	ug/l	
510-15-6	Chlorobenzilate	ND	5.3	0.51	ug/l	
2303-16-4	Diallate	ND	5.3	0.83	ug/l	
122-39-4	Diphenylamine	ND	5.3	0.69	ug/l	
99-65-0	m-Dinitrobenzene	ND	5.3	0.74	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	5.3	0.68	ug/l	
98-01-1	Furfural	ND	5.3		ug/l	
143-50-0	Kepone	ND	32	4.3	ug/l	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	5.3	0.75	ug/l	
66-27-3	Methyl methanesulfonate	ND	5.3	0.37	ug/l	
134-32-7	1-Naphthylamine	ND	5.3	0.80	ug/l	
91-59-8	2-Naphthylamine	ND	5.3	0.53	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	5.3	1.4	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	5.3	0.35	ug/l	
608-93-5	Pentachlorobenzene	ND	5.3	0.45	ug/l	
82-68-8	Pentachloronitrobenzene	ND	5.3	1.8	ug/l	
62-44-2	Phenacetin	ND	5.3	1.2	ug/l	
23950-58-5	Pronamide	ND	5.3	0.94	ug/l	
95-53-4	o-Toluidine	ND	5.3	0.40	ug/l	
108-44-1	m-Toluidine	ND	5.3		ug/l	
106-49-0	p-Toluidine	ND	5.3		ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		13-68%
4165-62-2	Phenol-d5	22%		10-49%
118-79-6	2,4,6-Tribromophenol	90%		37-130%
4165-60-0	Nitrobenzene-d5	83%		25-112%
321-60-8	2-Fluorobiphenyl	76%		31-106%
1718-51-0	Terphenyl-d14	93%		14-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-PB		
Lab Sample ID:	JA58900-6T	**Date Sampled:**	10/14/10
Matrix:	AQ - Field Blank Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108526T.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/l	
109-69-3	1-Chlorobutane	ND	5.0		ug/l	
108-94-1	Cyclohexanone	ND	50	25	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	0.21	ug/l	
140-88-5	Ethyl Acrylate	ND	5.0	2.9	ug/l	
96-33-3	Methyl Acrylate	ND	5.0	0.90	ug/l	
25013-15-4	Vinyltoluene	ND	5.0		ug/l	
75-68-3	1-chloro-1,1-difluoroethane	ND	5.0	0.71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	108%		76-117%
460-00-4	4-Bromofluorobenzene	90%		72-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-PB		
Lab Sample ID:	JA58900-6T	**Date Sampled:**	10/14/10
Matrix:	AQ - Field Blank Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F92535A.D	1	10/21/10	NAP	10/21/10	OP46278	EF4333
Run #2							

	Initial Volume	Final Volume
Run #1	835 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	6.0	1.2	ug/l	
53-96-3	2-Acetylaminofluorene	ND	6.0	0.75	ug/l	
92-67-1	4-Aminobiphenyl	ND	6.0	0.78	ug/l	
510-15-6	Chlorobenzilate	ND	6.0	0.58	ug/l	
2303-16-4	Diallate	ND	6.0	0.94	ug/l	
122-39-4	Diphenylamine	ND	6.0	0.78	ug/l	
99-65-0	m-Dinitrobenzene	ND	6.0	0.84	ug/l	
60-11-7	p-(Dimethylamine)azobenzene	ND	6.0	0.77	ug/l	
98-01-1	Furfural	ND	6.0		ug/l	
143-50-0	Kepone	ND	36	4.9	ug/l	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	6.0	0.85	ug/l	
66-27-3	Methyl methanesulfonate	ND	6.0	0.42	ug/l	
134-32-7	1-Naphthylamine	ND	6.0	0.91	ug/l	
91-59-8	2-Naphthylamine	ND	6.0	0.60	ug/l	
924-16-3	N-Nitrosodi-n-butylamine	ND	6.0	1.6	ug/l	
55-18-5	N-Nitrosodiethylamine	ND	6.0	0.40	ug/l	
608-93-5	Pentachlorobenzene	ND	6.0	0.51	ug/l	
82-68-8	Pentachloronitrobenzene	ND	6.0	2.1	ug/l	
62-44-2	Phenacetin	ND	6.0	1.3	ug/l	
23950-58-5	Pronamide	ND	6.0	1.1	ug/l	
95-53-4	o-Toluidine	ND	6.0	0.46	ug/l	
108-44-1	m-Toluidine	ND	6.0		ug/l	
106-49-0	p-Toluidine	ND	6.0		ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		13-68%
4165-62-2	Phenol-d5	30%		10-49%
118-79-6	2,4,6-Tribromophenol	107%		37-130%
4165-60-0	Nitrobenzene-d5	102%		25-112%
321-60-8	2-Fluorobiphenyl	92%		31-106%
1718-51-0	Terphenyl-d14	100%		14-122%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW4-C		
Lab Sample ID:	JA58900-7T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	77.5
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108396T.D	1	10/27/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	16.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.0		ug/kg	
108-94-1	Cyclohexanone	ND	80	4.5	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.0	0.038	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.0	0.51	ug/kg	
75-68-3	Freon 142B	ND	2.0	0.49	ug/kg	
96-33-3	Methyl Acrylate	ND	2.0	0.17	ug/kg	
25013-15-4	Vinyltoluene	ND	2.0		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		67-127%
17060-07-0	1,2-Dichloroethane-D4	109%		65-132%
2037-26-5	Toluene-D8	110%		74-129%
460-00-4	4-Bromofluorobenzene	113%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW4-C		
Lab Sample ID:	JA58900-7T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	77.5
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P729R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	42	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	29	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	25	ug/kg	
91-59-8	2-Naphthylamine	ND	180	24	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	38	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	26	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	29	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	63	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	34	ug/kg	
95-53-4	o-Toluidine	ND	180	28	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		30-109%
4165-62-2	Phenol-d5	31%		28-108%
118-79-6	2,4,6-Tribromophenol	44%		28-125%
4165-60-0	Nitrobenzene-d5	35%		28-113%
321-60-8	2-Fluorobiphenyl	41%		38-107%
1718-51-0	Terphenyl-d14	51%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW7-C		
Lab Sample ID:	JA58900-8T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108359T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	10.4 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.1		ug/kg	
108-94-1	Cyclohexanone	ND	120	6.9	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.1	0.059	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.1	0.79	ug/kg	
75-68-3	Freon 142B	ND	3.1	0.76	ug/kg	
96-33-3	Methyl Acrylate	ND	3.1	0.26	ug/kg	
25013-15-4	Vinyltoluene	ND	3.1		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	97%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	123%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW7-C		
Lab Sample ID:	JA58900-8T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P730R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	62	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	37%		28-108%
118-79-6	2,4,6-Tribromophenol	54%		28-125%
4165-60-0	Nitrobenzene-d5	42%		28-113%
321-60-8	2-Fluorobiphenyl	50%		38-107%
1718-51-0	Terphenyl-d14	63%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW10-C		
Lab Sample ID:	JA58900-9T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	78.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108360T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	12.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	2.6		ug/kg	
108-94-1	Cyclohexanone	ND	100	5.8	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	2.6	0.050	ug/kg	
140-88-5	Ethyl Acrylate	ND	2.6	0.67	ug/kg	
75-68-3	Freon 142B	ND	2.6	0.64	ug/kg	
96-33-3	Methyl Acrylate	ND	2.6	0.22	ug/kg	
25013-15-4	Vinyltoluene	ND	2.6		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		67-127%
17060-07-0	1,2-Dichloroethane-D4	93%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	127%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW10-C		
Lab Sample ID:	JA58900-9T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	78.8
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P731R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	180	41	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	180	33	ug/kg	
92-67-1	4-Aminobiphenyl	ND	180	18	ug/kg	
510-15-6	Chlorobenzilate	ND	180	22	ug/kg	
2303-16-4	Diallate	ND	180	28	ug/kg	
122-39-4	Diphenylamine	ND	180	29	ug/kg	
99-65-0	m-Dinitrobenzene	ND	180	37	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	180	24	ug/kg	
98-01-1	Furfural	ND	180		ug/kg	
143-50-0	Kepone	ND	1100	180	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	180	4.7	ug/kg	
66-27-3	Methyl methanesulfonate	ND	180	23	ug/kg	
134-32-7	1-Naphthylamine	ND	180	24	ug/kg	
91-59-8	2-Naphthylamine	ND	180	23	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	180	37	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	180	25	ug/kg	
608-93-5	Pentachlorobenzene	ND	180	28	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	180	62	ug/kg	
62-44-2	Phenacetin	ND	180	39	ug/kg	
23950-58-5	Pronamide	ND	180	33	ug/kg	
95-53-4	o-Toluidine	ND	180	27	ug/kg	
106-49-0	p-Toluidine	ND	180		ug/kg	
108-44-1	m-Toluidine	ND	180		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	40%		28-108%
118-79-6	2,4,6-Tribromophenol	58%		28-125%
4165-60-0	Nitrobenzene-d5	49%		28-113%
321-60-8	2-Fluorobiphenyl	57%		38-107%
1718-51-0	Terphenyl-d14	63%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW13-C		
Lab Sample ID:	JA58900-10T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108361T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	4.2		ug/kg	
108-94-1	Cyclohexanone	ND	170	9.5	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	4.2	0.081	ug/kg	
140-88-5	Ethyl Acrylate	ND	4.2	1.1	ug/kg	
75-68-3	Freon 142B	ND	4.2	1.0	ug/kg	
96-33-3	Methyl Acrylate	ND	4.2	0.36	ug/kg	
25013-15-4	Vinyltoluene	ND	4.2		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	111%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW13-C		
Lab Sample ID:	JA58900-10T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	60.9
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P736R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	230	53	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	230	42	ug/kg	
92-67-1	4-Aminobiphenyl	ND	230	23	ug/kg	
510-15-6	Chlorobenzilate	ND	230	28	ug/kg	
2303-16-4	Diallate	ND	230	37	ug/kg	
122-39-4	Diphenylamine	ND	230	37	ug/kg	
99-65-0	m-Dinitrobenzene	ND	230	48	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	230	31	ug/kg	
98-01-1	Furfural	ND	230		ug/kg	
143-50-0	Kepone	ND	1400	230	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	230	6.0	ug/kg	
66-27-3	Methyl methanesulfonate	ND	230	30	ug/kg	
134-32-7	1-Naphthylamine	ND	230	31	ug/kg	
91-59-8	2-Naphthylamine	ND	230	30	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	230	48	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	230	33	ug/kg	
608-93-5	Pentachlorobenzene	ND	230	36	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	230	81	ug/kg	
62-44-2	Phenacetin	ND	230	50	ug/kg	
23950-58-5	Pronamide	ND	230	43	ug/kg	
95-53-4	o-Toluidine	ND	230	35	ug/kg	
106-49-0	p-Toluidine	ND	230		ug/kg	
108-44-1	m-Toluidine	ND	230		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		30-109%
4165-62-2	Phenol-d5	46%		28-108%
118-79-6	2,4,6-Tribromophenol	73%		28-125%
4165-60-0	Nitrobenzene-d5	56%		28-113%
321-60-8	2-Fluorobiphenyl	67%		38-107%
1718-51-0	Terphenyl-d14	83%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW16-C		
Lab Sample ID:	JA58900-11T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	71.7
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108362T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.2 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.8		ug/kg	
108-94-1	Cyclohexanone	ND	150	8.5	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.8	0.073	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.8	0.98	ug/kg	
75-68-3	Freon 142B	ND	3.8	0.94	ug/kg	
96-33-3	Methyl Acrylate	ND	3.8	0.32	ug/kg	
25013-15-4	Vinyltoluene	ND	3.8		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	100%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	109%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW16-C		
Lab Sample ID:	JA58900-11T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	71.7
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P737R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	200	45	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	200	36	ug/kg	
92-67-1	4-Aminobiphenyl	ND	200	19	ug/kg	
510-15-6	Chlorobenzilate	ND	200	24	ug/kg	
2303-16-4	Diallate	ND	200	31	ug/kg	
122-39-4	Diphenylamine	ND	200	32	ug/kg	
99-65-0	m-Dinitrobenzene	ND	200	40	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	200	26	ug/kg	
98-01-1	Furfural	ND	200		ug/kg	
143-50-0	Kepone	ND	1200	200	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	200	5.1	ug/kg	
66-27-3	Methyl methanesulfonate	ND	200	25	ug/kg	
134-32-7	1-Naphthylamine	ND	200	27	ug/kg	
91-59-8	2-Naphthylamine	ND	200	26	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	200	41	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	200	28	ug/kg	
608-93-5	Pentachlorobenzene	ND	200	31	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	200	69	ug/kg	
62-44-2	Phenacetin	ND	200	43	ug/kg	
23950-58-5	Pronamide	ND	200	36	ug/kg	
95-53-4	o-Toluidine	ND	200	30	ug/kg	
106-49-0	p-Toluidine	ND	200		ug/kg	
108-44-1	m-Toluidine	ND	200		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		30-109%
4165-62-2	Phenol-d5	32%		28-108%
118-79-6	2,4,6-Tribromophenol	51%		28-125%
4165-60-0	Nitrobenzene-d5	38%		28-113%
321-60-8	2-Fluorobiphenyl	41%		38-107%
1718-51-0	Terphenyl-d14	62%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW19-C		
Lab Sample ID:	JA58900-12T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108363T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.9 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	3.4		ug/kg	
108-94-1	Cyclohexanone	ND	140	7.6	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	3.4	0.065	ug/kg	
140-88-5	Ethyl Acrylate	ND	3.4	0.88	ug/kg	
75-68-3	Freon 142B	ND	3.4	0.84	ug/kg	
96-33-3	Methyl Acrylate	ND	3.4	0.29	ug/kg	
25013-15-4	Vinyltoluene	ND	3.4		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		67-127%
17060-07-0	1,2-Dichloroethane-D4	98%		65-132%
2037-26-5	Toluene-D8	108%		74-129%
460-00-4	4-Bromofluorobenzene	110%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-CW19-C		
Lab Sample ID:	JA58900-12T	**Date Sampled:**	10/13/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	74.2
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P732R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.3 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	190	44	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	190	34	ug/kg	
92-67-1	4-Aminobiphenyl	ND	190	19	ug/kg	
510-15-6	Chlorobenzilate	ND	190	23	ug/kg	
2303-16-4	Diallate	ND	190	30	ug/kg	
122-39-4	Diphenylamine	ND	190	31	ug/kg	
99-65-0	m-Dinitrobenzene	ND	190	39	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	190	25	ug/kg	
98-01-1	Furfural	ND	190		ug/kg	
143-50-0	Kepone	ND	1100	190	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	190	4.9	ug/kg	
66-27-3	Methyl methanesulfonate	ND	190	24	ug/kg	
134-32-7	1-Naphthylamine	ND	190	26	ug/kg	
91-59-8	2-Naphthylamine	ND	190	25	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	190	39	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	190	27	ug/kg	
608-93-5	Pentachlorobenzene	ND	190	30	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	190	66	ug/kg	
62-44-2	Phenacetin	ND	190	41	ug/kg	
23950-58-5	Pronamide	ND	190	35	ug/kg	
95-53-4	o-Toluidine	ND	190	29	ug/kg	
106-49-0	p-Toluidine	ND	190		ug/kg	
108-44-1	m-Toluidine	ND	190		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		30-109%
4165-62-2	Phenol-d5	42%		28-108%
118-79-6	2,4,6-Tribromophenol	59%		28-125%
4165-60-0	Nitrobenzene-d5	41%		28-113%
321-60-8	2-Fluorobiphenyl	47%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	T101410		
Lab Sample ID:	JA58900-13T	**Date Sampled:**	10/14/10
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108351T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	5.0		ug/kg	
108-94-1	Cyclohexanone	ND	200	11	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	5.0	0.096	ug/kg	
140-88-5	Ethyl Acrylate	ND	5.0	1.3	ug/kg	
75-68-3	Freon 142B	ND	5.0	1.2	ug/kg	
96-33-3	Methyl Acrylate	ND	5.0	0.43	ug/kg	
25013-15-4	Vinyltoluene	ND	5.0		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		67-127%
17060-07-0	1,2-Dichloroethane-D4	99%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	110%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D1-CFD		
Lab Sample ID:	JA58900-14T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X108364T.D	1	10/26/10	JTP	n/a	n/a	VX4579
Run #2							

	Initial Weight
Run #1	9.7 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/kg	
109-69-3	1-Chlorobutane	ND	4.3		ug/kg	
108-94-1	Cyclohexanone	ND	170	9.6	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	4.3	0.082	ug/kg	
140-88-5	Ethyl Acrylate	ND	4.3	1.1	ug/kg	
75-68-3	Freon 142B	ND	4.3	1.1	ug/kg	
96-33-3	Methyl Acrylate	ND	4.3	0.37	ug/kg	
25013-15-4	Vinyltoluene	ND	4.3		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		67-127%
17060-07-0	1,2-Dichloroethane-D4	101%		65-132%
2037-26-5	Toluene-D8	109%		74-129%
460-00-4	4-Bromofluorobenzene	112%		62-138%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	BBNPP-D1-CFD		
Lab Sample ID:	JA58900-14T	**Date Sampled:**	10/14/10
Matrix:	SO - Soil	**Date Received:**	10/14/10
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	60.3
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P733R.D	1	11/02/10	KLS	10/25/10	OP46332	E3P34
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
	Cresol, Total	ND	240	54	ug/kg	
53-96-3	2-Acetylaminofluorene	ND	240	43	ug/kg	
92-67-1	4-Aminobiphenyl	ND	240	23	ug/kg	
510-15-6	Chlorobenzilate	ND	240	29	ug/kg	
2303-16-4	Diallate	ND	240	37	ug/kg	
122-39-4	Diphenylamine	ND	240	38	ug/kg	
99-65-0	m-Dinitrobenzene	ND	240	48	ug/kg	
60-11-7	p-(Dimethylamine)azobenzene	ND	240	31	ug/kg	
98-01-1	Furfural	ND	240		ug/kg	
143-50-0	Kepone	ND	1400	240	ug/kg	
101-14-4	4,4'-Methylenebis(2-chloroanil	ND	240	6.1	ug/kg	
66-27-3	Methyl methanesulfonate	ND	240	30	ug/kg	
134-32-7	1-Naphthylamine	ND	240	32	ug/kg	
91-59-8	2-Naphthylamine	ND	240	31	ug/kg	
924-16-3	N-Nitrosodi-n-butylamine	ND	240	49	ug/kg	
55-18-5	N-Nitrosodiethylamine	ND	240	33	ug/kg	
608-93-5	Pentachlorobenzene	ND	240	37	ug/kg	
82-68-8	Pentachloronitrobenzene	ND	240	82	ug/kg	
62-44-2	Phenacetin	ND	240	51	ug/kg	
23950-58-5	Pronamide	ND	240	43	ug/kg	
95-53-4	o-Toluidine	ND	240	36	ug/kg	
106-49-0	p-Toluidine	ND	240		ug/kg	
108-44-1	m-Toluidine	ND	240		ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		30-109%
4165-62-2	Phenol-d5	40%		28-108%
118-79-6	2,4,6-Tribromophenol	60%		28-125%
4165-60-0	Nitrobenzene-d5	42%		28-113%
321-60-8	2-Fluorobiphenyl	48%		38-107%
1718-51-0	Terphenyl-d14	64%		31-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JA58900-15T	**Date Sampled:**	10/14/10
Matrix:	AQ - Trip Blank Soil	**Date Received:**	10/14/10
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Bell Bend Nuclear Power Plant, Salem Township, PA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V108525T.D	1	10/21/10	JLI	n/a	n/a	VV4578
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
542-88-1	Bis(chloromethyl)ether	IND			ug/l	
109-69-3	1-Chlorobutane	ND	5.0		ug/l	
108-94-1	Cyclohexanone	ND	50	25	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	0.21	ug/l	
140-88-5	Ethyl Acrylate	ND	5.0	2.9	ug/l	
96-33-3	Methyl Acrylate	ND	5.0	0.90	ug/l	
25013-15-4	Vinyltoluene	ND	5.0		ug/l	
75-68-3	1-chloro-1,1-difluoroethane	ND	5.0	0.71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	95%		64-135%
2037-26-5	Toluene-D8	107%		76-117%
460-00-4	4-Bromofluorobenzene	91%		72-122%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

ENSR SO FB WW SSTB STB

CHAIN OF CUSTODY RECORD

JA58900

Page 1 of 2

E PN

Client/Project Name: UNE BBNPP	Project Location: Susquehanna River
Project Number: 60160208	Field Logbook No.: BBNPP-SP-1
Sampler (Print Name)/(Affiliation): Mike Hauser / AECOM	Chain of Custody Tape Nos.: 776744, 778262, 778266, 268270
Signature:	Send Results/Report to: DION LEWIS
	TAT: Normal

Analysis Requested

Container Type: P – Plastic; A – Amber Glass; G – Clear Glass; V – VOA Vial; O – Other; E – Encore

Preservation: 1 – HCl, 4°; 2 – H2SO4, 4°; 3 – HNO3, 4°; 4 – NaOH, 4°; 5 – NaOH/ZnAc, 4°; 6 – Na2S2O3, 4°; 7 – 4°

Matrix Codes: DW – Drinking Water; WW – Wastewater; GW – Groundwater; SW – Surface Water; ST – Storm Water; W – Water; S – Soil; SL – Sludge; SD – Sediment; SO – Solid; A – Air; L – Liquid; P – Product

Field Sample No./Identification	Date	Time	COMP	GRAB	Sample Container (Size/Matl)	Matrix	Preserv.	Field Filtered	VOCs	Ethylene Glycol	TCDD Dioxin	Formaldehyde	Organophos Pest.	Combined Chemistry	Archive VOCs	Archive			Lab I.D.	Remarks
BBNPP-D2	10/14/10	12:30	X		A/5, G/2, V/3	SD	ICE/MeOH	N	X	X	X	X	X	X	X	X			-1	SUB
BBNPP-D1-C	10/14/10	12:45	X			SD			X	X	X	X	X	X	X	X			-2	EX 48E
BBNPP-R-C	10/14/10	12:20	X			SD			X	X	X	X	X	X	X	X			-3	AMET8
BBNPP-CW22-C	10/14/10	12:45	X			SD			X	X	X	X	X	X	X	X			-4	WC1
BBNPP-C-EB	10/14/10	15:01	X			AQ	HCL, HNO3		X	X	X	X	X	X	X	X			-5	ME38
BBNPP-DB	10/14/10	15:35	X			AQ	HCL, HNO3		X	X	X	X	X	X	X	X			-6	4061
BBNPP-CW4-C	10/13/10	14:50	X			SD	ICE/MeOH		X	X	X	X	X	X	X	X			-7	19F6
BBNPP-CW7-C	10/13/10	15:00	X			SD			X	X	X	X	X	X	X	X			-8	14C2
BBNPP-CW10-C	10/13/10	15:30	X			SD			X	X	X	X	X	X	X	X			-9	4064
BBNPP-CW13-C	10/13/10	15:49	X			SD			X	X	X	X	X	X	X	X			-10	48P
BBNPP-CW16-C	10/13/10	16:16	X			SD			X	X	X	X	X	X	X	X			-11	823
BBNPP-CW18-C	10/13/10	16:32	X			SD			X	X	X	X	X	X	X	X			-12	
T10/14/10					V/3	AQ	~~HCL~~ NONE		X										-13	

Relinquished by: (Print Name)/(Affiliation) Mike Hauser / AECOM	Date: 10/14/10	Received by: (Print Name)/(Affiliation) Joseph McGarvey	Date:
Signature:	Time: 16:30	Signature:	Time:
Relinquished by: (Print Name)/(Affiliation) Joseph McGarvey	Date: 10/15/10	Received by: (Print Name)/(Affiliation) Alberto Acevedo	Date:
Signature:	Time: 9:40 EDT	Signature:	Time:
Relinquished by: (Print Name)/(Affiliation)	Date:	Received by: (Print Name)/(Affiliation)	Date: 10-15-10
Signature: PURITY EXP	Time:	Signature:	Time: 11:15

Analytical Laboratory (Destination): [illegible]

Rec'd at Exton Service Center 10/14/10 @1630

Sample Shipped Via: UPS FedEx Courier Other

Temp blank: Yes No

4.8, 3.9, 5.6, 4.5, 4.1, 5.2, 5.4°C

Priority # 15055590

White: Original (to Lab) Yellow: Lab Pink: Sampler

Serial No. 01925

G:\GRAPHICS\FORMS\Chain of Custody (COC)\Chain of Custody_AECOM_96_3MCR.doc

Field Kits Received

D.I. slurry voc vials frozen storage

Date: 10-15 Time: 1400 Initials: TH

ENSR

CHAIN OF CUSTODY RECORD

JA58900

Client/Project Name: UNE / BBNPP

Project Location: Susquehanna River

Project Number: 601 602 08

Field Logbook No.: BBNPP SP-1

Sampler (Print Name)/(Affiliation): Mike Hauser / AECOM

Chain of Custody Tape Nos.: 776774, 778262, 778266, 268270

Signature:

Send Results/Report to: DION LEWIS

TAT: Normal

Analysis Requested

Container Type: P – Plastic; A – Amber Glass; G – Clear Glass; V – VOA Vial; O – Other; E – Encore

Preservation: 1 – HCl, 4°; 2 – H2SO4, 4°; 3 – HNO3, 4°; 4 – NaOH, 4°; 5 – NaOH/ZnAc, 4°; 6 – Na2S2O3, 4°; 7 – 4°

Matrix Codes: DW – Drinking Water; WW – Wastewater; GW – Groundwater; SW – Surface Water; ST – Storm Water; W – Water; S – Soil; SL – Sludge; SD – Sediment; SO – Solid; A – Air; L – Liquid; P – Product

Field Sample No./Identification	Date	Time	COMP	GRAB	Sample Container (Size/Mat'l)	Matrix	Preserv.	Field Filtered	VOC	Ethylene Glycol	TCDD Dioxin	Formaldehyde	Organo Pest.	Conventional Chemistry	Air Fixed VOCs	Air Fixed			Lab I.D.	Remarks
BBNPP-R-C-AS	10/14/10	12:20	X		125 ml	SD	MeOH ice	N	X	X	X	X	X	X	X	X				
BBNPP-R-C-MSD	10/14/10	12:20	X			SD	MeOH ice		X	X	X	X	X	X	X	X			-3	
BBNPP-01-EFD	10/14/10	12:35	X			SD	MeOH ice		X	X	X	X	X	X	X	X			-14	
Trip Blank	10-7-10	14:00			6 x 40ml	STB	NONE		X										-15	

Relinquished by: (Print Name)/(Affiliation)	Date / Time	Received by: (Print Name)/(Affiliation)	Date / Time
Mike Hauser / AECOM	Date: 10/14/10 Time: 16:30	Joseph Curzi	Date: Time:
Joseph M. Curzi	Date: 10/15/10 Time: 9:40 am	Alberto Acevedo	Date: Time:
PRIORITY EXPRESS	Date: Time:		Date: 10-15-10 Time: 11:15

Analytical Laboratory (Destination): ADDED 10-15-10 TH

Rec'd at Exton Service Center 10/14/10 @ 1630

Sample Shipped Via: UPS FedEx Courier Other

Temp blank: Yes No

White: Original (to Lab) Yellow: Lab Pink: Sampler

Serial No. 01926

SAMPLE #	MEOH VIAL	D.I. VIAL	D.I. VIAL
1	85	337	338
2	96	345	346
3	77 79 80	353 354 357	358 355 356
4	93	341	342
5			
6			
7	101	333	334
8	98	347	348
9	89	335	336
10	88	319	320
11	95	325	~~326~~ 326
12	78	343	344
13		349	350
14	94	359	360
15			
16			
17			
18			
19			
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50			

ACCUTEST Laboratories

☐ Immediate Action Required
Scanned as Problem Note
☐ Action Required at Login
Not Scanned

Issue Date: _____

Sample Receipt Issues Summary

To: Client Services / Login
From: Sample Management Sample Management Technicians Initials: _____

Client: _____ Project: _____ Job #: JA58900 notes

- ☐ Trip Blank Not Received
- ☐ Trip Blank Not on Chain of Custody
- ☐ Temperature Criteria (0-6 C) Not Met
  - ☐ Ice Present
  - ☐ No Ice Present
  - ☐ Frozen
- ☐ Sample Received Out of Holding Time
- ☐ Encore received outside of Holding Time
- ☐ Soil VOA vials in DI water to be frozen rec'd outside of 48 hr Holding Time
- ☐ Sample Received Broken
- ☐ Insufficient Volume For Analysis
- ☐ Sample Received Improperly Preserved
- ☐ Times on Chain Don't Match Label
- ☐ ID's on Chain Don't Match Label
- ☐ Sample Labels Not Present on all Bottles
- ☐ Analysis Requested is Unclear or Missing
- ☐ VOC Vials Have Headspace (Macro-bubbles)
- ☐ Bottles Rcv'd, Analysis Not Requested on COC
- ☐ No Bottles Received for Analysis Requested
- ☐ Unclear Filtering Instructions
- ☐ Unclear Compositing Instructions
- ☐ % Solids Jar Not Received
- ☐ No Chain of Custody Received
- ☐ Sample Dates or Times Unclear or Missing

Description of Problem:

EB water VOA's rec'd in HCL VOA's
'PB' water VOA's rec'd in N/P VOA's, HCL written on vials, bag they came in said no HCL

For water samples took 1 of 6 EXT Liters and designated it as CR3 - brought to lab 13:30

Emailed page 1+2 - priority office didn't have second page

Form: SM65-02
Rev. Date: 11/06/08

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA58900 **Client:** AECOM-ENSR **Immediate Client Services Action Required:** Yes

Date / Time Received: 10/15/2010 11:15 **Delivery Method:** PRIORITY **Client Service Action Required at Login:** No

Project: UNE BBNPP **No. Coolers:** 7 **Airbill #'s:** 1505 5590

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☐	☑	3. COC Present:	☑	☐
2. Custody Seals Intact:	☐	☑	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	Infared gun	
3. Cooler media:	Ice (bag)	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☐	☑
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

1) -5, -6 DID NOT RECEIVE OFFICIAL XCR VOLUME. USED AN EXTRACTION VOLUME FOR CR3

2) -5 RECEIVED ONLY HCL VO'S - NO ETHGLYCOL VOLUME

3) -6 RECEIVED ONLY N/P VO'S - NO VOC VOLUME

4) PRIORITY DRIVER DID NOT HAVE PAGE 2, CHAIN WAS EMAILED TO US AND PRINTED.

5) Revised 10/18/10 No NO32 volumes rec'd for samples -5 & -6

6) Revised--10-20-10--NO CN volumes rec'd for samples -5 and-6

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

ACCUTEST

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JA58900

CSR: Tammy McCloskey **Response Date** 10/21/2010

Response: 1) Dion Lewis notified, proceed with analysis

2) Dion Lewis notified 10/15/10 that we are unable to run ethylene glycol on -5

3) Dion Lewis notified 10/15/10 that all VO volumes received unpreserved, note at login & proceed with analysis.

4) Chain received from Priority

5) Per Dion Lewis on 10/18/10 NO32 analysis is not required on these 2 samples

6) Per Dion Lewis on 10/20/10 Cn analysis is not required on these 2 samples

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

Job Change Order: JA58900_11/4/2010

Requested Date:	11/4/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	TM	**TAT (Days):**	14

Sample #: JA58900-1 to 4, 7 to 12, 14, 3D, 3S

Change: relog for XXCRAR

\bove Changes Dion Lewis/Andrea Mischel **Date:** 11/4/2010

'o Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

HR

Job Change Order: JA58900_11/8/2010

Requested Date:	11/8/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	TM	**TAT (Days):**	21

Sample #:
JA58900-all "R"

Change: please move all "R" samples for XXCRAR to an "R" job

Above Changes Dion Lewis **Date:** 11/8/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58900R_11/18/2010

Requested Date:	11/18/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	11/18/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	TM	**TAT (Days):**	14

Sample #: JA58900R-3R

Change: please relog on a separate job for FE2/7, SULFS, TOC

BBNPP-R-C

Above Changes Andrea Mischel **Date:** 11/18/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58900_12/20/2010

Requested	12/20/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	MJ	**TAT (Days):**	14

Sample #:
JA58900-All

Change: Relog/retrieve for ABR8270SL, VR8260SL, PR8081CHL, and H8151DALAPON, make DD 12/21

Above Changes Per: Tammy **Date:** 12/20/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58900A_12/20/2010

Requested	12/20/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	12/20/2010
Project	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	MJ	**TAT (Days):**	14

Sample #:
JA58900-All

Change: Relog/retrieve for ABR8270SL, VR8260SL, PR8081CHL, and H8151DALAPON, make DD 12/21

Above Changes Per: Tammy **Date:** 12/20/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Job Change Order: JA58900_12/16/2010

Requested Date:	12/16/2010	**Received Date:**	10/14/2010
Account Name:	AECOM, INC.	**Due Date:**	11/4/2010
Project Description:	Bell Bend Nuclear Power Plant, Salem Township,	**Deliverable:**	FULT1
CSR:	TM	**TAT (Days):**	2

Sample #:
JA58900-1 through 12, 14, 3D, 3S

Change: relog/retrieve on original report for TL

Above Changes Andrea Mischel **Date:** 12/16/2010

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-1.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-1.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-1.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-1.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-1.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-1.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-1.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-1.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-1.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-1.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-1.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-1.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-1.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-1.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-1.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-1.1
JA58900-1.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-1.1
JA58900-1.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-1.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-1.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-1.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-1.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-1.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-1.1
JA58900-1.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-1.1
JA58900-1.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-1.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-1.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-1.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-1.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-1.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-1.1
JA58900-1.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-1.1
JA58900-1.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-1.1.3	Extract Storage	Toya Dagena Raffington	11/02/10 11:02	Retrieve from Storage
JA58900-1.1.3	Toya Dagena Raffington	GCWW	11/02/10 11:02	Load on Instrument
JA58900-1.1.3	GCWW	Toya Dagena Raffington	11/03/10 09:33	Unload from Instrument
JA58900-1.1.3	Toya Dagena Raffington	Extract Freezer	11/03/10 09:33	Return to Storage
JA58900-1.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-1.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-1.1

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-1.1
JA58900-1.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-1.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-1.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-1.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-1.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-1.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-1.1.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-1.1
JA58900-1.1.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-1.1
JA58900-1.1.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-1.1.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-1.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-1.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-1.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-1.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-1.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-1.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-1.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-1.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-1.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-1.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-1.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-1.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-1.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-1.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-1.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-1.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-1.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-1.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-1.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-1.2
JA58900-1.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-1.2
JA58900-1.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-1.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-1.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-1.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-1.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-1.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-1.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-1.2.1

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-1.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-1.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-1.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-1.2
JA58900-1.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-1.2
JA58900-1.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-1.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-1.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-1.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-1.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-1.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-1.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-1.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-1.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-1.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-1.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-1.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-1.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-2.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-2.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-2.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-2.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-2.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-2.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-2.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-2.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-2.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-2.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-2.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-2.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-2.1
JA58900-2.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-2.1

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-2.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-2.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-2.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-2.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-2.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-2.1
JA58900-2.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-2.1
JA58900-2.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-2.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-2.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-2.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-2.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-2.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-2.1
JA58900-2.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-2.1
JA58900-2.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-2.1.3	Extract Storage	Toya Dagena Raffington	11/02/10 11:02	Retrieve from Storage
JA58900-2.1.3	Toya Dagena Raffington	GCWW	11/02/10 11:02	Load on Instrument
JA58900-2.1.3	GCWW	Toya Dagena Raffington	11/03/10 09:33	Unload from Instrument
JA58900-2.1.3	Toya Dagena Raffington	Extract Freezer	11/03/10 09:33	Return to Storage
JA58900-2.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-2.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-2.1
JA58900-2.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-2.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-2.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-2.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-2.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-2.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-2.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-2.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-2.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-2.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-2.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-2.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-2.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-2.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-2.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-2.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-2.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-2.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-2.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-2.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-2.2
JA58900-2.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-2.2
JA58900-2.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-2.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-2.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-2.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-2.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-2.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-2.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-2.2.1
JA58900-2.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-2.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-2.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-2.2
JA58900-2.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-2.2
JA58900-2.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-2.2
JA58900-2.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-2.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-2.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-2.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-2.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-2.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-2.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-2.2
JA58900-2.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-2.2
JA58900-2.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-2.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-2.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-2.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-2.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-2.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-2.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-2.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-2.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-2.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-2.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-2.10	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-2.10	Scott McGonigal	GCMSG	10/27/10 16:34	Load on Instrument
JA58900-2.10	GCMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-2.10	Scott McGonigal		10/28/10 13:17	Depleted
JA58900-2.11	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-2.11	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-2.11	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-2.11	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-3.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-3.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-3.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-3.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-3.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-3.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-3.1
JA58900-3.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-3.1
JA58900-3.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-3.1.1	Extract Storage	Owen McKenna	10/27/10 16:32	Retrieve from Storage
JA58900-3.1.1	Owen McKenna	GC4G	10/27/10 16:32	Load on Instrument
JA58900-3.1.1	GC4G	Owen McKenna	11/01/10 14:04	Unload from Instrument
JA58900-3.1.1	Owen McKenna	Extract Freezer	11/01/10 14:04	Return to Storage
JA58900-3.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-3.1
JA58900-3.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-3.1
JA58900-3.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-3.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-3.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-3.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-3.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-3.1
JA58900-3.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-3.1
JA58900-3.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-3.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-3.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-3.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-3.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-3.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-3.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-3.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-3.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-3.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-3.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-3.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-3.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-3.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-3.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-3.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-3.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-3.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-3.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-3.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-3.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-3.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-3.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-3.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-3.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-3.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-3.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-3.2
JA58900-3.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-3.2
JA58900-3.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-3.2.1	Extract Storage	Kristi Schollenberger	10/26/10 15:55	Retrieve from Storage
JA58900-3.2.1	Kristi Schollenberger	GCMS3P	10/26/10 15:55	Load on Instrument
JA58900-3.2.1	GCMS3P	Kristi Schollenberger	10/27/10 19:01	Unload from Instrument
JA58900-3.2.1	Kristi Schollenberger	Extract Freezer	10/27/10 19:01	Return to Storage
JA58900-3.2.1	Extract Freezer	Kristi Schollenberger	11/01/10 12:19	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.2.1	Kristi Schollenberger	GCMS3P	11/01/10 12:19	Load on Instrument
JA58900-3.2.1	GCMS3P	Kristi Schollenberger	11/02/10 12:45	Unload from Instrument
JA58900-3.2.1	Kristi Schollenberger	Extract Freezer	11/02/10 12:45	Return to Storage
JA58900-3.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-3.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-3.2.1
JA58900-3.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-3.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-3.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:22	Digestate from JA58900-3.2
JA58900-3.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-3.2
JA58900-3.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-3.2
JA58900-3.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-3.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-3.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-3.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-3.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-3.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-3.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-3.2
JA58900-3.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-3.2
JA58900-3.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-3.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-3.2.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-3.2
JA58900-3.2.7	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-3.2
JA58900-3.3	Secured Storage	Adam Scott	10/27/10 06:29	Retrieve from Storage
JA58900-3.3	Adam Scott	Gwendolyn Dymowski	10/27/10 06:35	Custody Transfer
JA58900-3.3	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-3.3	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-3.3	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-3.3	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-3.3	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-3.3	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-3.3	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-3.3	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-3.3	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.3	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.3	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.3	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-3.3	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.3	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-3.3	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-3.3	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-3.3	Secured Storage	Adam Scott	11/22/10 06:51	Retrieve from Storage
JA58900-3.3	Adam Scott	Shirley Grzybowski	11/22/10 07:18	Custody Transfer
JA58900-3.3	Shirley Grzybowski	Secured Storage	11/22/10 15:10	Return to Storage
JA58900-3.3	Secured Storage	Todd Shoemaker	12/02/10 08:07	Retrieve from Storage
JA58900-3.3	Todd Shoemaker	Sarvadaman Tripathi	12/02/10 08:33	Custody Transfer
JA58900-3.3	Sarvadaman Tripathi	Secured Storage	12/02/10 16:16	Return to Storage
JA58900-3.3.1	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-3.3
JA58900-3.3.1	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-3.3
JA58900-3.3.1	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-3.3.1	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-3.3.1	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-3.3.1	GCWW	Toya Dagena Raffington	11/03/10 09:36	Unload from Instrument
JA58900-3.3.1	Toya Dagena Raffington	Extract Freezer	11/03/10 09:36	Return to Storage
JA58900-3.3.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-3.4	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-3.4	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-3.4	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-3.4	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-3.4	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-3.4	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-3.4	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-3.4	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-3.4	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-3.5	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-3.5	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-3.5	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-3.6	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-3.6	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-3.6	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-3.8	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-3.8	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-3.8	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-3.8	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-3.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.12	Robert Lofrano		10/15/10 17:08	Subcontract

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-3.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.15	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.15	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.16	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.16	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.17	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.17	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.18	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.18	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.19	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.19	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.20	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-3.20	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-3.26	Secured Storage	Juntae Park	10/26/10 14:33	Retrieve from Storage
JA58900-3.26	Juntae Park	GCMSX	10/26/10 14:33	Load on Instrument
JA58900-3.26	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-3.26	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.27	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-3.27	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-3.27	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-3.27	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-3.28	Secured Storage	Juntae Park	10/27/10 16:34	Retrieve from Storage
JA58900-3.28	Juntae Park	GCMSX	10/27/10 16:34	Load on Instrument
JA58900-3.28	GCMSX	Juntae Park	10/29/10 14:36	Unload from Instrument
JA58900-3.28	Juntae Park	Secured Storage	10/29/10 14:36	Return to Storage
JA58900-3.29	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-3.29	Scott McGonigal	GCMSG	10/27/10 16:34	Load on Instrument
JA58900-3.29	GCMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-3.29	Scott McGonigal		10/28/10 13:17	Depleted

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-4.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-4.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-4.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-4.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-4.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-4.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-4.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-4.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-4.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-4.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-4.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-4.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-4.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-4.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-4.1
JA58900-4.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-4.1
JA58900-4.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-4.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-4.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-4.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-4.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-4.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-4.1
JA58900-4.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-4.1
JA58900-4.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-4.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-4.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-4.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-4.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-4.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-4.1
JA58900-4.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-4.1
JA58900-4.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-4.1.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-4.1.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-4.1.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-4.1.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-4.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-4.1.4	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-4.1

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.1.4	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-4.1
JA58900-4.1.4	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-4.1.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-4.1.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-4.1
JA58900-4.2	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-4.2	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-4.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-4.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-4.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-4.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-4.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-4.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-4.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-4.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-4.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-4.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-4.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-4.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-4.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-4.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-4.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-4.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-4.2
JA58900-4.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-4.2
JA58900-4.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-4.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-4.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-4.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-4.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-4.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-4.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-4.2.1
JA58900-4.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-4.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-4.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-4.2
JA58900-4.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-4.2

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-4.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-4.2
JA58900-4.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-4.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-4.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-4.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-4.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-4.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-4.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-4.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-4.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-4.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-4.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-4.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-4.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-4.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-4.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-4.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-4.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-4.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-4.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-5.1	Secured Storage	Edgardo Arrazola	10/21/10 12:17	Retrieve from Storage
JA58900-5.1	Edgardo Arrazola		10/21/10 23:19	Depleted
JA58900-5.1.1	Edgardo Arrazola	Organics Prep	10/21/10 12:17	Extract from JA58900-5.1
JA58900-5.1.1	Organics Prep	Edgardo Arrazola	10/21/10 18:04	Extract from JA58900-5.1
JA58900-5.1.1	Edgardo Arrazola	Extract Storage	10/21/10 18:04	Return to Storage
JA58900-5.1.1	Extract Storage	Larisa Pejdah	10/21/10 18:29	Retrieve from Storage
JA58900-5.1.1	Larisa Pejdah	GCMSF	10/21/10 18:29	Load on Instrument
JA58900-5.1.1	GCMSF	Nina Pandya	10/22/10 07:35	Unload from Instrument
JA58900-5.1.1	Nina Pandya	Extract Freezer	10/22/10 07:35	Return to Storage
JA58900-5.1.1	Extract Freezer		12/01/10 09:00	Disposed
JA58900-5.4	Secured Storage	George Paunovski	10/20/10 15:44	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-5.4	George Paunovski		10/20/10 18:27	Depleted
JA58900-5.4.1	George Paunovski	Organics Prep	10/20/10 15:45	Extract from JA58900-5.4
JA58900-5.4.1	Organics Prep	George Paunovski	10/20/10 23:58	Extract from JA58900-5.4
JA58900-5.4.1	George Paunovski	Extract Storage	10/20/10 23:58	Return to Storage
JA58900-5.4.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:34	Retrieve from Storage
JA58900-5.4.1	Toya Dagena Raffington	GCWW	10/21/10 16:34	Load on Instrument
JA58900-5.4.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58900-5.4.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58900-5.4.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-5.5	Secured Storage	Alan Wan	10/20/10 14:14	Retrieve from Storage
JA58900-5.5	Alan Wan		10/20/10 21:39	Depleted
JA58900-5.5.1	Alan Wan	Organics Prep	10/20/10 14:14	Extract from JA58900-5.5
JA58900-5.5.1	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-5.5
JA58900-5.5.1	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-5.5.1	Extract Storage	Toya Dagena Raffington	10/22/10 15:02	Retrieve from Storage
JA58900-5.5.1	Toya Dagena Raffington	GC3G	10/22/10 15:02	Load on Instrument
JA58900-5.5.1	GC3G	Toya Dagena Raffington	10/22/10 17:19	Unload from Instrument
JA58900-5.5.1	Toya Dagena Raffington	Extract Freezer	10/22/10 17:19	Return to Storage
JA58900-5.5.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-5.5.2	Alan Wan	Organics Prep	10/20/10 14:15	Extract from JA58900-5.5
JA58900-5.5.2	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-5.5
JA58900-5.5.2	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-5.5.2	Extract Storage		11/30/10 09:00	Disposed
JA58900-5.6	Secured Storage	Anupama Dubey	10/15/10 14:51	Retrieve from Storage
JA58900-5.6	Anupama Dubey	Secured Storage	10/15/10 16:45	Return to Storage
JA58900-5.6	Secured Storage	Todd Shoemaker	10/29/10 08:48	Retrieve from Storage
JA58900-5.6	Todd Shoemaker	Melissa Smith	10/29/10 08:50	Custody Transfer
JA58900-5.6	Melissa Smith	Secured Storage	10/29/10 16:04	Return to Storage
JA58900-5.7	Secured Storage	Adam Scott	11/01/10 07:24	Retrieve from Storage
JA58900-5.7	Adam Scott	Rinku Patel	11/01/10 08:09	Custody Transfer
JA58900-5.7	Rinku Patel	Secured Storage	11/01/10 16:35	Return to Storage
JA58900-5.7	Secured Storage	Todd Shoemaker	11/05/10 08:49	Retrieve from Storage
JA58900-5.7	Todd Shoemaker	Jieyu Wang	11/05/10 08:50	Custody Transfer
JA58900-5.7	Jieyu Wang	Secured Storage	11/05/10 18:16	Return to Storage
JA58900-5.8	Secured Storage	Adam Scott	10/30/10 09:36	Retrieve from Storage
JA58900-5.8	Adam Scott	Shirley Grzybowski	10/30/10 09:42	Custody Transfer
JA58900-5.8	Shirley Grzybowski	Secured Storage	11/01/10 07:04	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-5.9	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.9	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.10	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.10	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.11	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.11	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.12	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-5.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-5.16	Secured Storage	Kristi Schollenberger	10/20/10 17:06	Retrieve from Storage
JA58900-5.16	Kristi Schollenberger	GCMSH	10/20/10 17:06	Load on Instrument
JA58900-5.16	GCMSH	Kristi Schollenberger	10/21/10 16:27	Unload from Instrument
JA58900-5.16	Kristi Schollenberger	Secured Storage	10/21/10 16:27	Return to Storage
JA58900-5.17	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-5.17	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-5.17	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-5.17	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58900-6.2	Secured Storage	Edgardo Arrazola	10/21/10 12:17	Retrieve from Storage
JA58900-6.2	Edgardo Arrazola		10/21/10 23:19	Depleted
JA58900-6.2.1	Edgardo Arrazola	Organics Prep	10/21/10 12:17	Extract from JA58900-6.2
JA58900-6.2.1	Organics Prep	Edgardo Arrazola	10/21/10 18:04	Extract from JA58900-6.2
JA58900-6.2.1	Edgardo Arrazola	Extract Storage	10/21/10 18:04	Return to Storage
JA58900-6.2.1	Extract Storage	Larisa Pejdah	10/21/10 18:29	Retrieve from Storage
JA58900-6.2.1	Larisa Pejdah	GCMSF	10/21/10 18:29	Load on Instrument
JA58900-6.2.1	GCMSF	Nina Pandya	10/22/10 07:35	Unload from Instrument
JA58900-6.2.1	Nina Pandya	Extract Freezer	10/22/10 07:35	Return to Storage
JA58900-6.2.1	Extract Freezer		12/01/10 09:00	Disposed
JA58900-6.3	Secured Storage	George Paunovski	10/20/10 15:44	Retrieve from Storage
JA58900-6.3	George Paunovski		10/20/10 18:27	Depleted

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-6.3.1	George Paunovski	Organics Prep	10/20/10 15:45	Extract from JA58900-6.3
JA58900-6.3.1	Organics Prep	George Paunovski	10/20/10 23:58	Extract from JA58900-6.3
JA58900-6.3.1	George Paunovski	Extract Storage	10/20/10 23:58	Return to Storage
JA58900-6.3.1	Extract Storage	Toya Dagena Raffington	10/21/10 16:34	Retrieve from Storage
JA58900-6.3.1	Toya Dagena Raffington	GCWW	10/21/10 16:34	Load on Instrument
JA58900-6.3.1	GCWW	Toya Dagena Raffington	10/25/10 08:58	Unload from Instrument
JA58900-6.3.1	Toya Dagena Raffington	Extract Freezer	10/25/10 08:58	Return to Storage
JA58900-6.3.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-6.5	Secured Storage	Alan Wan	10/20/10 14:14	Retrieve from Storage
JA58900-6.5	Alan Wan		10/20/10 21:39	Depleted
JA58900-6.5.1	Alan Wan	Organics Prep	10/20/10 14:14	Extract from JA58900-6.5
JA58900-6.5.1	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-6.5
JA58900-6.5.1	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-6.5.1	Extract Storage	Toya Dagena Raffington	10/22/10 15:02	Retrieve from Storage
JA58900-6.5.1	Toya Dagena Raffington	GC3G	10/22/10 15:02	Load on Instrument
JA58900-6.5.1	GC3G	Toya Dagena Raffington	10/22/10 17:19	Unload from Instrument
JA58900-6.5.1	Toya Dagena Raffington	Extract Freezer	10/22/10 17:19	Return to Storage
JA58900-6.5.1	Extract Freezer		11/30/10 09:00	Disposed
JA58900-6.5.2	Alan Wan	Organics Prep	10/20/10 14:15	Extract from JA58900-6.5
JA58900-6.5.2	Organics Prep	Alan Wan	10/20/10 18:55	Extract from JA58900-6.5
JA58900-6.5.2	Alan Wan	Extract Storage	10/20/10 18:55	Return to Storage
JA58900-6.5.2	Extract Storage		11/30/10 09:00	Disposed
JA58900-6.6	Secured Storage	Anupama Dubey	10/15/10 14:51	Retrieve from Storage
JA58900-6.6	Anupama Dubey	Secured Storage	10/15/10 16:45	Return to Storage
JA58900-6.6	Secured Storage	Todd Shoemaker	10/29/10 08:48	Retrieve from Storage
JA58900-6.6	Todd Shoemaker	Melissa Smith	10/29/10 08:50	Custody Transfer
JA58900-6.6	Melissa Smith	Secured Storage	10/29/10 16:04	Return to Storage
JA58900-6.7	Secured Storage	Adam Scott	11/01/10 07:24	Retrieve from Storage
JA58900-6.7	Adam Scott	Rinku Patel	11/01/10 08:09	Custody Transfer
JA58900-6.7	Rinku Patel	Secured Storage	11/01/10 16:35	Return to Storage
JA58900-6.7	Secured Storage	Todd Shoemaker	11/05/10 08:49	Retrieve from Storage
JA58900-6.7	Todd Shoemaker	Jieyu Wang	11/05/10 08:50	Custody Transfer
JA58900-6.7	Jieyu Wang	Secured Storage	11/05/10 18:16	Return to Storage
JA58900-6.8	Secured Storage	Adam Scott	10/30/10 09:36	Retrieve from Storage
JA58900-6.8	Adam Scott	Shirley Grzybowski	10/30/10 09:42	Custody Transfer
JA58900-6.8	Shirley Grzybowski	Secured Storage	11/01/10 07:04	Return to Storage
JA58900-6.9	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-6.9	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.10	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.10	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.11	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.11	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.12	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.12	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.13	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.13	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.14	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-6.14	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-6.16	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-6.16	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-6.16	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-6.16	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage
JA58900-6.18	Secured Storage	Kristi Schollenberger	10/20/10 17:06	Retrieve from Storage
JA58900-6.18	Kristi Schollenberger	GCMSH	10/20/10 17:06	Load on Instrument
JA58900-6.18	GCMSH	Kristi Schollenberger	10/21/10 16:27	Unload from Instrument
JA58900-6.18	Kristi Schollenberger	Secured Storage	10/21/10 16:27	Return to Storage
JA58900-7.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-7.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-7.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-7.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-7.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-7.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-7.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-7.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-7.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-7.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-7.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-7.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-7.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-7.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-7.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-7.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-7.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-7.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-7.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-7.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-7.1
JA58900-7.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-7.1
JA58900-7.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-7.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-7.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-7.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-7.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-7.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-7.1
JA58900-7.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-7.1
JA58900-7.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-7.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-7.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-7.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-7.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-7.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-7.1
JA58900-7.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-7.1
JA58900-7.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-7.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-7.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-7.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-7.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-7.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-7.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-7.1
JA58900-7.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-7.1
JA58900-7.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-7.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-7.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-7.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-7.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-7.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-7.1.5	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-7.1
JA58900-7.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-7.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-7.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-7.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-7.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-7.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-7.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-7.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-7.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-7.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-7.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-7.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-7.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-7.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-7.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-7.2
JA58900-7.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-7.2
JA58900-7.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-7.2.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-7.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-7.2.1
JA58900-7.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-7.2.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-7.2.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-7.2.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-7.2.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-7.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-7.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-7.2
JA58900-7.2.4	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-7.2
JA58900-7.2.4	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-7.2
JA58900-7.2.4	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-7.2.4	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-7.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-7.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-7.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-7.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-7.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-7.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-7.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-7.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-7.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-7.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-7.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-7.10	Secured Storage	Juntae Park	10/27/10 16:34	Retrieve from Storage
JA58900-7.10	Juntae Park	GCMSX	10/27/10 16:34	Load on Instrument
JA58900-7.10	GCMSX	Juntae Park	10/29/10 14:36	Unload from Instrument
JA58900-7.10	Juntae Park	Secured Storage	10/29/10 14:36	Return to Storage
JA58900-7.11	Secured Storage	Scott McGonigal	10/27/10 16:34	Retrieve from Storage
JA58900-7.11	Scott McGonigal	GCMSG	10/27/10 16:34	Load on Instrument
JA58900-7.11	GCMSG	Scott McGonigal	10/28/10 13:15	Unload from Instrument
JA58900-7.11	Scott McGonigal		10/28/10 13:17	Depleted
JA58900-8.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-8.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-8.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-8.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-8.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-8.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-8.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-8.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-8.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-8.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-8.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-8.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-8.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-8.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-8.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-8.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-8.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-8.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-8.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-8.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-8.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-8.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-8.1
JA58900-8.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-8.1
JA58900-8.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-8.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-8.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-8.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-8.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-8.1
JA58900-8.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-8.1
JA58900-8.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-8.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-8.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-8.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-8.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-8.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-8.1
JA58900-8.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-8.1
JA58900-8.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-8.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-8.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-8.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-8.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage
JA58900-8.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-8.1.4	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-8.1
JA58900-8.1.5	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-8.1
JA58900-8.1.5	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-8.1
JA58900-8.1.5	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-8.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-8.1.5	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-8.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-8.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-8.1.5	Extract Freezer		12/10/10 09:00	Disposed
JA58900-8.1.6	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-8.1
JA58900-8.1.6	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-8.1
JA58900-8.1.6	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-8.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-8.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-8.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-8.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-8.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-8.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-8.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-8.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-8.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-8.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-8.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-8.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-8.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-8.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-8.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-8.2
JA58900-8.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-8.2
JA58900-8.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-8.2.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-8.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-8.2.1
JA58900-8.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-8.2.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-8.2.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-8.2.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-8.2.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-8.2.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-8.2.3	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-8.2
JA58900-8.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-8.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-8.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-8.5	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-8.5	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-8.5	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-8.5	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-8.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-8.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-8.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-8.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-8.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-8.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-9.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-9.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-9.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-9.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-9.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-9.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-9.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-9.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-9.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-9.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-9.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-9.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-9.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-9.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-9.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-9.1
JA58900-9.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-9.1
JA58900-9.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-9.1.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-9.1.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-9.1.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-9.1.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-9.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-9.1
JA58900-9.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-9.1
JA58900-9.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-9.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-9.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-9.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-9.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-9.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-9.1
JA58900-9.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-9.1
JA58900-9.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-9.1.3	Extract Storage	Toya Dagena Raffington	10/28/10 15:41	Retrieve from Storage
JA58900-9.1.3	Toya Dagena Raffington	GCWW	10/28/10 15:41	Load on Instrument
JA58900-9.1.3	GCWW	Toya Dagena Raffington	11/01/10 09:35	Unload from Instrument
JA58900-9.1.3	Toya Dagena Raffington	Extract Freezer	11/01/10 09:35	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-9.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-9.1.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-9.1
JA58900-9.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-9.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-9.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-9.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-9.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-9.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-9.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-9.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-9.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-9.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-9.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-9.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-9.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-9.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-9.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-9.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-9.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-9.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-9.2	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-9.2	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-9.2	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-9.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-9.2
JA58900-9.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-9.2
JA58900-9.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-9.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-9.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-9.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-9.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-9.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-9.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-9.2.1
JA58900-9.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-9.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-9.2.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-9.2
JA58900-9.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-9.2
JA58900-9.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-9.2
JA58900-9.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-9.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-9.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-9.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-9.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-9.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-9.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-9.2
JA58900-9.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-9.2
JA58900-9.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-9.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-9.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-9.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-9.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-9.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-9.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-9.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-9.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-9.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-9.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-9.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-9.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-9.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-9.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-10.1	Secured Storage	Steven Kim	10/25/10 09:39	Retrieve from Storage
JA58900-10.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-10.1	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-10.1	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-10.1	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-10.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-10.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-10.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-10.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-10.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-10.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-10.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-10.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-10.1.1	Steven Kim	Organics Prep	10/25/10 09:39	Extract from JA58900-10.1
JA58900-10.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-10.1
JA58900-10.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-10.1.1	Extract Storage		12/06/10 09:00	Disposed
JA58900-10.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-10.1.1
JA58900-10.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-10.1.2	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-10.1.2	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-10.1.2	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-10.1.2	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-10.1.2	Extract Freezer		12/06/10 09:00	Disposed
JA58900-10.1.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-10.1
JA58900-10.2	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-10.2	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-10.2	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-10.2	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-10.2	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-10.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-10.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-10.2	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-10.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-10.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-10.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-10.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-10.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-10.2	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-10.2	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-10.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-10.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-10.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-10.2.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-10.2
JA58900-10.2.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-10.2
JA58900-10.2.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.2.1	Extract Storage	Owen McKenna	11/03/10 11:14	Retrieve from Storage
JA58900-10.2.1	Owen McKenna	GC4G	11/03/10 11:14	Load on Instrument
JA58900-10.2.1	GC4G	Owen McKenna	11/09/10 14:31	Unload from Instrument
JA58900-10.2.1	Owen McKenna	Extract Freezer	11/09/10 14:31	Return to Storage
JA58900-10.2.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-10.2
JA58900-10.2.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-10.2
JA58900-10.2.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-10.2.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-10.2.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-10.2.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-10.2.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-10.2.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-10.2
JA58900-10.2.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-10.2
JA58900-10.2.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-10.2.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-10.2.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-10.2.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-10.2.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-10.2.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-10.2.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-10.2
JA58900-10.2.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-10.2
JA58900-10.2.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-10.2.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-10.2.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-10.2.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-10.2.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-10.2.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-10.2.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-10.2
JA58900-10.2.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-10.2
JA58900-10.2.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-10.2.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-10.2.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-10.2
JA58900-10.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-10.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-10.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-10.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-10.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-10.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-10.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-10.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-10.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-10.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-10.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-10.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-10.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	10/19/10 08:34	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Barbara Clark	10/19/10 08:36	Custody Transfer
JA58900-11.1	Barbara Clark	Secured Storage	10/19/10 12:45	Return to Storage
JA58900-11.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-11.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-11.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-11.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-11.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-11.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-11.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-11.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-11.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-11.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-11.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-11.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-11.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-11.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-11.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-11.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-11.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-11.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-11.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-11.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-11.1.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-11.1
JA58900-11.1.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-11.1
JA58900-11.1.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-11.1.1	Extract Storage	Owen McKenna	11/03/10 11:14	Retrieve from Storage
JA58900-11.1.1	Owen McKenna	GC4G	11/03/10 11:14	Load on Instrument
JA58900-11.1.1	GC4G	Owen McKenna	11/09/10 14:31	Unload from Instrument
JA58900-11.1.1	Owen McKenna	Extract Freezer	11/09/10 14:31	Return to Storage
JA58900-11.1.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.2	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-11.1
JA58900-11.1.2	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-11.1
JA58900-11.1.2	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-11.1.2	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-11.1.2	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-11.1.2	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-11.1.2	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-11.1.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.3	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-11.1
JA58900-11.1.3	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-11.1
JA58900-11.1.3	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-11.1.3	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-11.1.3	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-11.1.3	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-11.1.3	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-11.1.3	Extract Freezer		12/07/10 09:00	Disposed
JA58900-11.1.4	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-11.1
JA58900-11.1.5	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-11.1
JA58900-11.1.5	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-11.1
JA58900-11.1.5	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-11.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-11.1.5	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-11.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-11.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-11.1.5	Extract Freezer		12/10/10 09:00	Disposed
JA58900-11.1.6	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-11.1
JA58900-11.1.6	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-11.1
JA58900-11.1.6	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-11.1.6	Metals Digestate Storage		01/10/11 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.1.7	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-11.1
JA58900-11.2	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-11.2	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-11.2	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-11.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-11.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-11.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-11.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-11.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-11.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-11.2.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-11.2
JA58900-11.2.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-11.2
JA58900-11.2.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-11.2.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-11.2.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-11.2.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-11.2.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-11.2.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-11.2.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-11.2.1
JA58900-11.2.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-11.2.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-11.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-11.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-11.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-11.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-11.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-11.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-11.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-11.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-11.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-11.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-11.8	Robert Lofrano		10/15/10 17:08	Subcontract

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-11.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-11.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-11.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-11.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-12.1	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-12.1	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-12.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-12.1	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-12.1	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-12.1	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-12.1	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-12.1	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-12.1	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-12.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-12.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-12.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-12.1	Secured Storage	Joshua Frenkel	11/07/10 12:21	Retrieve from Storage
JA58900-12.1	Joshua Frenkel	Secured Storage	11/07/10 13:38	Return to Storage
JA58900-12.1	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-12.1	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-12.1	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-12.1.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-12.1
JA58900-12.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-12.1
JA58900-12.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-12.1.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-12.1.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-12.1.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-12.1.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-12.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-12.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-12.1.1
JA58900-12.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-12.1.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-12.1.3	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-12.1
JA58900-12.1.3	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-12.1
JA58900-12.1.3	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-12.1.3	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-12.1.3	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-12.1.3	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-12.1.3	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-12.1.3	Extract Freezer		12/07/10 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-12.1.4	Gwendolyn Dymowski	Organics Prep	10/27/10 06:35	Extract from JA58900-12.1
JA58900-12.1.4	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-12.1
JA58900-12.1.4	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-12.1.4	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-12.1.4	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-12.1.4	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-12.1.4	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-12.1.4	Extract Freezer		12/07/10 09:00	Disposed
JA58900-12.1.5	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-12.1
JA58900-12.1.5	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-12.1
JA58900-12.1.5	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-12.1.5	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-12.1.5	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-12.1.5	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-12.1.5	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-12.1.5	Extract Freezer		12/07/10 09:00	Disposed
JA58900-12.1.6	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-12.1
JA58900-12.2	Secured Storage	Zethan Reyes	10/22/10 07:16	Retrieve from Storage
JA58900-12.2	Zethan Reyes	Barbara Clark	10/22/10 08:03	Custody Transfer
JA58900-12.2	Barbara Clark	Secured Storage	10/22/10 15:22	Return to Storage
JA58900-12.2	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-12.2	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-12.2	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-12.2	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-12.2	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-12.2	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-12.2	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-12.2	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-12.2	George Paunovski	Daniel Klawunn	10/30/10 12:04	Custody Transfer
JA58900-12.2	Daniel Klawunn	Secured Storage	10/30/10 16:26	Return to Storage
JA58900-12.2	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-12.2	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-12.2	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-12.2	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-12.2	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-12.2	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-12.2.1	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-12.2
JA58900-12.2.2	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-12.2

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-12.2.2	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-12.2
JA58900-12.2.2	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-12.2.2	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-12.2.2	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-12.2.2	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-12.2.2	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-12.2.2	Extract Freezer		12/10/10 09:00	Disposed
JA58900-12.2.3	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-12.2
JA58900-12.2.3	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-12.2
JA58900-12.2.3	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-12.2.3	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-12.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-12.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-12.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-12.5	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-12.5	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-12.5	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-12.5	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-12.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-12.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-12.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-12.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-12.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-12.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-13.1	Secured Storage	Juntae Park	10/26/10 14:27	Retrieve from Storage
JA58900-13.1	Juntae Park	GCMSX	10/26/10 14:27	Load on Instrument
JA58900-13.1	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-13.1	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	10/21/10 08:03	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Barbara Clark	10/21/10 08:08	Custody Transfer
JA58900-14.1	Barbara Clark	Secured Storage	10/21/10 15:58	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.1	Secured Storage	Adam Scott	10/25/10 06:55	Retrieve from Storage
JA58900-14.1	Adam Scott	Steven Kim	10/25/10 08:36	Custody Transfer
JA58900-14.1	Steven Kim	Secured Storage	10/25/10 14:16	Return to Storage
JA58900-14.1	Secured Storage	Adam Scott	10/27/10 07:25	Retrieve from Storage
JA58900-14.1	Adam Scott	Albert Lam	10/27/10 09:30	Custody Transfer
JA58900-14.1	Albert Lam	Secured Storage	10/27/10 12:12	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	10/28/10 08:44	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Rie Iwasaki	10/28/10 08:46	Custody Transfer
JA58900-14.1	Rie Iwasaki	Secured Storage	10/28/10 13:01	Return to Storage
JA58900-14.1	Secured Storage	John Thomas	10/30/10 07:39	Retrieve from Storage
JA58900-14.1	John Thomas	George Paunovski	10/30/10 08:07	Custody Transfer
JA58900-14.1	George Paunovski	Secured Storage	10/30/10 15:24	Return to Storage
JA58900-14.1	Secured Storage	Adam Scott	11/01/10 07:08	Retrieve from Storage
JA58900-14.1	Adam Scott	Melissa Smith	11/01/10 07:55	Custody Transfer
JA58900-14.1	Melissa Smith	Secured Storage	11/01/10 16:29	Return to Storage
JA58900-14.1	Secured Storage	Zethan Reyes	11/02/10 08:53	Retrieve from Storage
JA58900-14.1	Zethan Reyes	Vidya Krishnan	11/02/10 08:55	Custody Transfer
JA58900-14.1	Vidya Krishnan	Secured Storage	11/02/10 12:49	Return to Storage
JA58900-14.1	Secured Storage	Todd Shoemaker	11/03/10 09:16	Retrieve from Storage
JA58900-14.1	Todd Shoemaker	Albert Lam	11/03/10 09:17	Custody Transfer
JA58900-14.1	Albert Lam	Secured Storage	11/03/10 15:04	Return to Storage
JA58900-14.1.1	Steven Kim	Organics Prep	10/25/10 08:39	Extract from JA58900-14.1
JA58900-14.1.1	Organics Prep	Steven Kim	10/25/10 18:42	Extract from JA58900-14.1
JA58900-14.1.1	Steven Kim	Extract Storage	10/26/10 08:23	Return to Storage
JA58900-14.1.1	Extract Storage	Kristi Schollenberger	11/02/10 12:46	Retrieve from Storage
JA58900-14.1.1	Kristi Schollenberger	GCMS3P	11/02/10 12:46	Load on Instrument
JA58900-14.1.1	GCMS3P	Kristi Schollenberger	11/03/10 14:55	Unload from Instrument
JA58900-14.1.1	Kristi Schollenberger	Extract Freezer	11/03/10 14:55	Return to Storage
JA58900-14.1.1	Extract Freezer		12/06/10 09:00	Disposed
JA58900-14.1.2	Steven Kim	Steven Kim	10/25/10 18:46	Extract from JA58900-14.1.1
JA58900-14.1.2	Steven Kim	Extract Storage	10/25/10 18:46	Return to Storage
JA58900-14.1.2	Extract Storage		12/06/10 09:00	Disposed
JA58900-14.1.3	Rie Iwasaki	GenChem Digestion	10/28/10 11:23	Digestate from JA58900-14.1
JA58900-14.1.4	George Paunovski	Organics Prep	10/30/10 08:13	Extract from JA58900-14.1
JA58900-14.1.4	Organics Prep	George Paunovski	10/30/10 16:08	Extract from JA58900-14.1
JA58900-14.1.4	George Paunovski	Extract Storage	10/30/10 16:08	Return to Storage
JA58900-14.1.4	Extract Storage	Toya Dagena Raffington	11/03/10 16:05	Retrieve from Storage
JA58900-14.1.4	Toya Dagena Raffington	GCWW	11/03/10 16:06	Load on Instrument
JA58900-14.1.4	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-14.1.4	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.1.4	Extract Freezer		12/10/10 09:00	Disposed
JA58900-14.1.5	Vidya Krishnan	Metals Digestion	11/02/10 12:31	Digestate from JA58900-14.1
JA58900-14.1.5	Metals Digestion	Vidya Krishnan	11/02/10 12:31	Digestate from JA58900-14.1
JA58900-14.1.5	Vidya Krishnan	Metals Digestate Storage	11/02/10 12:31	Return to Storage
JA58900-14.1.5	Metals Digestate Storage		01/10/11 09:00	Disposed
JA58900-14.2	Secured Storage	Gwendolyn Dymowski	10/27/10 06:30	Retrieve from Storage
JA58900-14.2	Gwendolyn Dymowski	Steven Kim	10/27/10 08:20	Custody Transfer
JA58900-14.2	Steven Kim	Secured Storage	10/27/10 11:27	Return to Storage
JA58900-14.2	Secured Storage	Adam Scott	11/02/10 06:42	Retrieve from Storage
JA58900-14.2	Adam Scott	Shirley Grzybowski	11/02/10 07:12	Custody Transfer
JA58900-14.2	Shirley Grzybowski	Secured Storage	11/02/10 11:58	Return to Storage
JA58900-14.2	Secured Storage	Zethan Reyes	11/09/10 09:30	Retrieve from Storage
JA58900-14.2	Zethan Reyes	Vaidehi Amin	11/09/10 09:32	Custody Transfer
JA58900-14.2	Vaidehi Amin	Secured Storage	11/09/10 15:36	Return to Storage
JA58900-14.2.1	Gwendolyn Dymowski	Organics Prep	10/27/10 06:34	Extract from JA58900-14.2
JA58900-14.2.1	Organics Prep	Gwendolyn Dymowski	10/27/10 14:17	Extract from JA58900-14.2
JA58900-14.2.1	Gwendolyn Dymowski	Extract Storage	10/27/10 14:17	Return to Storage
JA58900-14.2.1	Extract Storage	Owen McKenna	11/01/10 16:11	Retrieve from Storage
JA58900-14.2.1	Owen McKenna	GC4G	11/01/10 16:11	Load on Instrument
JA58900-14.2.1	GC4G	Owen McKenna	11/03/10 11:14	Unload from Instrument
JA58900-14.2.1	Owen McKenna	Extract Freezer	11/03/10 11:14	Return to Storage
JA58900-14.2.1	Extract Freezer		12/07/10 09:00	Disposed
JA58900-14.2.2	Steven Kim	Organics Prep	10/27/10 08:24	Extract from JA58900-14.2
JA58900-14.2.2	Organics Prep	Steven Kim	10/27/10 17:06	Extract from JA58900-14.2
JA58900-14.2.2	Steven Kim	Extract Storage	10/27/10 17:06	Return to Storage
JA58900-14.2.2	Extract Storage	Toya Dagena Raffington	11/03/10 09:35	Retrieve from Storage
JA58900-14.2.2	Toya Dagena Raffington	GCWW	11/03/10 09:35	Load on Instrument
JA58900-14.2.2	GCWW	Toya Dagena Raffington	11/11/10 10:29	Unload from Instrument
JA58900-14.2.2	Toya Dagena Raffington	Extract Freezer	11/11/10 10:29	Return to Storage
JA58900-14.2.2	Extract Freezer		12/07/10 09:00	Disposed
JA58900-14.2.3	Steven Kim	Organics Prep	10/27/10 08:58	Extract from JA58900-14.2
JA58900-14.2.3	Organics Prep	Gwendolyn Dymowski	10/27/10 14:18	Extract from JA58900-14.2
JA58900-14.2.3	Gwendolyn Dymowski	Extract Storage	10/27/10 14:18	Return to Storage
JA58900-14.2.3	Extract Storage	Vincent Drago	10/27/10 14:31	Retrieve from Storage
JA58900-14.2.3	Vincent Drago	GCEF	10/27/10 14:31	Load on Instrument
JA58900-14.2.3	GCEF	Vincent Drago	10/29/10 16:33	Unload from Instrument
JA58900-14.2.3	Vincent Drago	Extract Freezer	10/29/10 16:33	Return to Storage
JA58900-14.2.3	Extract Freezer		12/07/10 09:00	Disposed

Accutest Internal Chain of Custody

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA
Received: 10/14/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA58900-14.2.4	Vaidehi Amin	GenChem Digestion	11/09/10 11:33	Digestate from JA58900-14.2
JA58900-14.3	Secured Storage	Todd Shoemaker	11/03/10 08:37	Retrieve from Storage
JA58900-14.3	Todd Shoemaker	Kari Hullen	11/03/10 08:38	Custody Transfer
JA58900-14.3	Kari Hullen	Secured Storage	11/03/10 10:57	Return to Storage
JA58900-14.4	Secured Storage	Kristi Schollenberger	10/26/10 18:08	Retrieve from Storage
JA58900-14.4	Kristi Schollenberger	GCMSH	10/26/10 18:08	Load on Instrument
JA58900-14.4	GCMSH	Kristi Schollenberger	10/26/10 19:13	Unload from Instrument
JA58900-14.4	Kristi Schollenberger	Secured Storage	10/26/10 19:13	Return to Storage
JA58900-14.6	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.6	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.7	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.7	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.8	Secured Storage	Robert Lofrano	10/15/10 17:08	Retrieve from Storage
JA58900-14.8	Robert Lofrano		10/15/10 17:08	Subcontract
JA58900-14.10	Secured Storage	Juntae Park	10/26/10 17:17	Retrieve from Storage
JA58900-14.10	Juntae Park	GCMSX	10/26/10 17:17	Load on Instrument
JA58900-14.10	GCMSX	Juntae Park	10/27/10 09:28	Unload from Instrument
JA58900-14.10	Juntae Park	Secured Storage	10/27/10 09:28	Return to Storage
JA58900-15.1	Secured Storage	Jianhua Li	10/21/10 16:35	Retrieve from Storage
JA58900-15.1	Jianhua Li	GCMSV	10/21/10 16:35	Load on Instrument
JA58900-15.1	GCMSV	Jianhua Li	10/22/10 10:25	Unload from Instrument
JA58900-15.1	Jianhua Li	Secured Storage	10/22/10 10:25	Return to Storage

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-1T Collected: 14-OCT-10 12:30 By: MH Received: 14-OCT-10 By: TH BBNPP-D2						
JA58900-1T	SW846 8260B	26-OCT-10 22:24	JTP			VR8260SL
JA58900-1T	SW846 8270C	02-NOV-10 16:32	KLS	25-OCT-10	SK	ABR8270SL
JA58900-2T Collected: 14-OCT-10 12:45 By: MH Received: 14-OCT-10 By: TH BBNPP-D1-C						
JA58900-2T	SW846 8260B	26-OCT-10 22:53	JTP			VR8260SL
JA58900-2T	SW846 8270C	02-NOV-10 19:30	KLS	25-OCT-10	SK	ABR8270SL
JA58900-3T Collected: 14-OCT-10 12:20 By: MH Received: 14-OCT-10 By: TH BBNPP-R-C						
JA58900-3T	SW846 8260B	26-OCT-10 15:39	JTP			VR8260SL
JA58900-3T	SW846 8270C	01-NOV-10 16:47	KLS	25-OCT-10	SK	ABR8270SL
JA58900-4T Collected: 14-OCT-10 12:45 By: MH Received: 14-OCT-10 By: TH BBNPP-CW22-C						
JA58900-4T	SW846 8260B	26-OCT-10 23:22	JTP			VR8260SL
JA58900-4T	SW846 8270C	02-NOV-10 19:59	KLS	25-OCT-10	SK	ABR8270SL
JA58900-5T Collected: 14-OCT-10 15:01 By: MH Received: 14-OCT-10 By: TH BBNPP-C-EB						
JA58900-5T	SW846 8270C	21-OCT-10 19:11	NAP	21-OCT-10	EA	ABR8270SL
JA58900-5T	SW846 8260B	21-OCT-10 20:11	JLI			VR8260SL
JA58900-6T Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH BBNPP-PB						
JA58900-6T	SW846 8270C	21-OCT-10 19:35	NAP	21-OCT-10	EA	ABR8270SL
JA58900-6T	SW846 8260B	21-OCT-10 19:40	JLI			VR8260SL
JA58900-7T Collected: 13-OCT-10 14:17 By: MH Received: 14-OCT-10 By: TH BBNPP-CW4-C						
JA58900-7T	SW846 8260B	27-OCT-10 17:19	JTP			VR8260SL

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-7T	SW846 8270C	02-NOV-10 17:02	KLS	25-OCT-10	SK	ABR8270SL
JA58900-8T Collected: 13-OCT-10 15:10 By: MH Received: 14-OCT-10 By: TH BBNPP-CW7-C						
JA58900-8T	SW846 8260B	26-OCT-10 19:28	JTP			VR8260SL
JA58900-8T	SW846 8270C	02-NOV-10 17:31	KLS	25-OCT-10	SK	ABR8270SL
JA58900-9T Collected: 13-OCT-10 15:30 By: MH Received: 14-OCT-10 By: TH BBNPP-CW10-C						
JA58900-9T	SW846 8260B	26-OCT-10 19:57	JTP			VR8260SL
JA58900-9T	SW846 8270C	02-NOV-10 18:01	KLS	25-OCT-10	SK	ABR8270SL
JA58900-10T Collected: 13-OCT-10 15:49 By: MH Received: 14-OCT-10 By: TH BBNPP-CW13-C						
JA58900-10T	SW846 8260B	26-OCT-10 20:27	JTP			VR8260SL
JA58900-10T	SW846 8270C	02-NOV-10 20:28	KLS	25-OCT-10	SK	ABR8270SL
JA58900-11T Collected: 13-OCT-10 16:10 By: MH Received: 14-OCT-10 By: TH BBNPP-CW16-C						
JA58900-11T	SW846 8260B	26-OCT-10 20:56	JTP			VR8260SL
JA58900-11T	SW846 8270C	02-NOV-10 20:58	KLS	25-OCT-10	SK	ABR8270SL
JA58900-12T Collected: 13-OCT-10 16:32 By: MH Received: 14-OCT-10 By: TH BBNPP-CW19-C						
JA58900-12T	SW846 8260B	26-OCT-10 21:25	JTP			VR8260SL
JA58900-12T	SW846 8270C	02-NOV-10 18:30	KLS	25-OCT-10	SK	ABR8270SL
JA58900-13T Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH T101410						
JA58900-13T	SW846 8260B	26-OCT-10 15:10	JTP			VR8260SL
JA58900-14T Collected: 14-OCT-10 12:45 By: MH Received: 14-OCT-10 By: TH BBNPP-D1-CFD						

Internal Sample Tracking Chronicle

AECOM, INC.

Job No: JA58900A

Bell Bend Nuclear Power Plant, Salem Township, PA
Project No: 60160208

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA58900-14	EW846 8260B	26-OCT-10 21:55	JTP			VR8260SL
JA58900-14	EW846 8270C	02-NOV-10 19:00	KLS	25-OCT-10	SK	ABR8270SL
JA58900-15	Collected: 14-OCT-10 15:35 By: MH Received: 14-OCT-10 By: TH TRIP BLANK					
JA58900-15	EW846 8260B	21-OCT-10 19:09	JLI			VR8260SL

MSVOA

Volatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VV4577-CC4452	**Injection Date:**	10/21/10
Lab File ID:	V108506.D	**Injection Time:**	11:00
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	101723	7.44	278806	9.67	430843	10.62	430470	14.03	237362	16.65
Upper Limit [a]	203446	7.94	557612	10.17	861686	11.12	860940	14.53	474724	17.15
Lower Limit [b]	50862	6.94	139403	9.17	215422	10.12	215235	13.53	118681	16.15

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VV4577-MB1	111744	7.46	277915	9.67	419887	10.62	428033	14.04	215033	16.66
VV4577-BS1	93799	7.44	275961	9.67	428606	10.61	428294	14.03	238654	16.65
VV4578-MB1	90489	7.46	241123	9.68	376523	10.62	389769	14.04	193229	16.66
VV4578-BS	101084	7.44	259785	9.67	407231	10.61	411334	14.03	241313	16.65
VV4578-BSD	108393	7.44	261047	9.67	406621	10.61	415767	14.03	242909	16.65
ZZZZZZ	110240	7.46	268788	9.67	422095	10.62	434357	14.03	224565	16.66
JA58900-15T	110240	7.46	268788	9.67	422095	10.62	434357	14.03	224565	16.66
ZZZZZZ	104742	7.46	273199	9.67	414381	10.62	431469	14.03	216935	16.66
JA58900-6T	104742	7.46	273199	9.67	414381	10.62	431469	14.03	216935	16.66
ZZZZZZ	89018	7.47	263662	9.67	421554	10.62	421822	14.03	208907	16.66
JA58900-5T	89018	7.47	263662	9.67	421554	10.62	421822	14.03	208907	16.66

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VX4579-CC4516	**Injection Date:**	10/26/10
Lab File ID:	X108347.D	**Injection Time:**	12:51
Instrument ID:	GCMSX	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	52666	7.35	144787	10.05	198395	11.22	198755	15.43	99728	18.20
Upper Limit [a]	105332	7.85	289574	10.55	396790	11.72	397510	15.93	199456	18.70
Lower Limit [b]	26333	6.85	72394	9.55	99198	10.72	99378	14.93	49864	17.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX4579-MB	55092	7.35	144318	10.04	191766	11.21	190315	15.43	96057	18.20
VX4579-BS	55100	7.36	144373	10.05	202723	11.21	206826	15.43	99946	18.20
ZZZZZZ	53738	7.35	150489	10.05	201696	11.22	195753	15.43	96193	18.20
JA58900-13T	53738	7.35	150489	10.05	201696	11.22	195753	15.43	96193	18.20
JA58900-3	63733	7.35	146489	10.05	193790	11.21	161042	15.43	47991[c]	18.20
JA58900-3T	63733	7.35	146489	10.05	193790	11.21	161042	15.43	47991*	18.20
JA58900-3MS	65235	7.35	139082	10.05	200186	11.22	185213	15.43	61482	18.20
JA58900-3MSD	62668	7.36	154941	10.05	215527	11.22	200694	15.43	76829	18.20
ZZZZZZ	68934	7.35	166124	10.05	221563	11.22	215107	15.43	105208	18.20
ZZZZZZ	60851	7.35	168387	10.05	226899	11.22	220961	15.43	110129	18.20
JA58900-3	61922	7.36	79537	10.05	97671[c]	11.22	41905[c]	15.43	6015[c]	18.20
ZZZZZZ	69797	7.35	173994	10.05	228098	11.22	216561	15.43	90967	18.20
JA58900-8T	69797	7.35	173994	10.05	228098	11.22	216561	15.43	90967	18.20
ZZZZZZ	59976	7.36	169039	10.05	221638	11.22	202132	15.43	77656	18.20
JA58900-9T	59976	7.36	169039	10.05	221638	11.22	202132	15.43	77656	18.20
ZZZZZZ	64144	7.35	170368	10.05	229099	11.22	222491	15.43	108039	18.20
JA58900-10T	64144	7.35	170368	10.05	229099	11.22	222491	15.43	108039	18.20
ZZZZZZ	60806	7.36	164792	10.05	217940	11.22	215873	15.43	108138	18.20
JA58900-11T	60806	7.36	164792	10.05	217940	11.22	215873	15.43	108138	18.20
ZZZZZZ	54149	7.35	174820	10.05	234713	11.22	228959	15.43	112666	18.20
JA58900-12T	54149	7.35	174820	10.05	234713	11.22	228959	15.43	112666	18.20
ZZZZZZ	76238	7.36	173767	10.05	232904	11.22	226611	15.43	106926	18.20
JA58900-14T	76238	7.36	173767	10.05	232904	11.22	226611	15.43	106926	18.20
ZZZZZZ	43962	7.35	165006	10.05	213048	11.22	186621	15.43	63217	18.20
JA58900-1T	43962	7.35	165006	10.05	213048	11.22	186621	15.43	63217	18.20
ZZZZZZ	51567	7.36	171124	10.05	229678	11.22	226927	15.43	106466	18.20
JA58900-2T	51567	7.36	171124	10.05	229678	11.22	226927	15.43	106466	18.20
ZZZZZZ	68143	7.36	175983	10.05	231702	11.22	225367	15.43	106996	18.20
JA58900-4T	68143	7.36	175983	10.05	231702	11.22	225367	15.43	106996	18.20

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

Volatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VX4579-CC4516	**Injection Date:**	10/26/10
Lab File ID:	X108347.D	**Injection Time:**	12:51
Instrument ID:	GCMSX	**Method:**	SW846 8260B

Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Outside control limits due to sample matrix.

Volatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	VX4579-CC4516	**Injection Date:**	10/27/10
Lab File ID:	X108392.D	**Injection Time:**	15:02
Instrument ID:	GCMSX	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	62391	7.35	138289	10.05	198218	11.22	198728	15.43	100190	18.20
Upper Limit [a]	124782	7.85	276578	10.55	396436	11.72	397456	15.93	200380	18.70
Lower Limit [b]	31196	6.85	69145	9.55	99109	10.72	99364	14.93	50095	17.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX4579-MB2	70732	7.36	144369	10.05	203282	11.22	199455	15.43	102603	18.20
VX4579-BS2	65874	7.35	138963	10.05	201066	11.22	206238	15.43	102249	18.20
ZZZZZZ	67276	7.34	158662	10.05	223610	11.22	218315	15.43	105477	18.20
JA58900-7T	67276	7.34	158662	10.05	223610	11.22	218315	15.43	105477	18.20

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JA58900-1T	X108365T.D	92.0	92.0	108.0	135.0
JA58900-2T	X108366T.D	97.0	105.0	109.0	114.0
JA58900-3T	X108352T.D	99.0	102.0	106.0	147.0*
JA58900-4T	X108367T.D	93.0	95.0	108.0	112.0
JA58900-7T	X108396T.D	103.0	109.0	110.0	113.0
JA58900-8T	X108359T.D	93.0	97.0	109.0	123.0
JA58900-9T	X108360T.D	90.0	93.0	108.0	127.0
JA58900-10T	X108361T.D	93.0	98.0	109.0	111.0
JA58900-11T	X108362T.D	94.0	100.0	109.0	109.0
JA58900-12T	X108363T.D	95.0	98.0	108.0	110.0
JA58900-13T	X108351T.D	93.0	99.0	109.0	110.0
JA58900-14T	X108364T.D	94.0	101.0	109.0	112.0
JA58900-3MS	X108353.D	105.0	110.0	107.0	131.0
JA58900-3MSD	X108354.D	98.0	101.0	105.0	121.0
VX4579-BS	X108349.D	96.0	104.0	110.0	110.0
VX4579-BS2	X108394.D	105.0	110.0	109.0	103.0
VX4579-MB	X108348.D	97.0	103.0	111.0	108.0
VX4579-MB2	X108393.D	103.0	113.0	111.0	105.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-127%
S2 = 1,2-Dichloroethane-D4	65-132%
S3 = Toluene-D8	74-129%
S4 = 4-Bromofluorobenzene	62-138%

1) Freon 142B
   calibrated in MDL study

2) methyl acrylate
   regularly calibrated compound

3) 1-Chlorobutane
   regularly calibrated compound in V524 method

4) n-butyl alcohol
   regularly calibrated compound

5) Ethyl Acrylate
   regularly calibrated compound

6) 2-nitropropane
   regularly calibrated compound

7) cis-1,3-dichloropropene
   regularly calibrated compound

8) trans-1,3-dichloropropene
   regularly calibrated compound

9) cyclohexanone
   regularly calibrated compound

10) Vinyl toluene
    calibrated in MDL study

11) Bis(chloromethyl)ether
    Use Ion search

Compound List Report MSV

Method Path : C:\MSDCHEM\1\METHODS\
Method File : MVS4452B.M
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Dec 22 16:46:54 2010
Response Via : Initial Calibration

Total Cpnds : 20

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	Tert Butyl Alcohol-d9	65	7.45	1.000	A	1	A	B
2	I	pentafluorobenzene	168	9.67	1.000	A	2	A	L
3		Freon 142B	65	4.47	0.463	A	3	A	B
4		methyl acrylate	85	9.27	0.958	A	2	A	B
5		1-Chlorobutane	56	9.87	1.020	A	3	A	B
6	S	dibromofluoromethane (s)	113	9.73	1.006	A	2	A	B
7	S	1,2-dichloroethane-d4 (s)	65	10.16	1.050	A	2	A	B
8	I	1,4-difluorobenzene	114	10.62	1.000	A	2	A	B
9		n-butyl alcohol	56	10.75	1.012	A	2	A	B
10		Ethyl Acrylate	55	10.97	1.033	A	3	A	B
11		2-nitropropane	46	12.17	1.146	L	3	A	B
12		cis-1,3-dichloropropene	75	12.03	1.133	A	2	A	B
13	S	toluene-d8 (s)	98	12.35	1.163	A	2	A	B
14		trans-1,3-dichloropropene	75	12.64	1.191	A	2	A	B
15	I	chlorobenzene-d5	117	14.03	1.000	A	2	A	B
16		cyclohexanone	55	15.29	1.090	A	2	A	B
17	S	4-bromofluorobenzene (s)	95	15.34	1.093	A	2	A	B
18	I	1,4-dichlorobenzene-d4	152	16.65	1.000	A	2	A	B
19		Vinyl toluene	118	16.93	1.017	A	3	A	B
20		Bis(chloromethyl)ether	79	0.00	0.000	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

MVS4452B.M Thu Dec 30 13:06:10 2010 RPT1

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\AV4693-4695\V110932.D Vial: 26
Acq On : 29 Dec 2010 12:11 am Operator: JIANHUAL
Sample : CC4646-50 Inst : MSV
Misc : MS6437,VV4694,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS4646.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Dec 16 10:30:02 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	108	0.00	7.44
2		tertiary butyl alcohol	1.285	1.520	-18.3	118	0.00	7.55
3		1,4-dioxane	0.111	0.168	-51.4#	150	0.00	11.36
4	I	pentafluorobenzene	1.000	1.000	0.0	115	0.00	9.66
5		Freon 115		----------NA----------				
6		Freon 23		----------NA----------				
7		Freon 143A		----------NA----------				
8		Freon 152A		----------NA----------				
9		Freon 114		----------NA----------				
10		Freon 142B		----------NA----------				
11		Chlorotrifluoroethene		----------NA----------				
12		1,3-Butadiene		----------NA----------				
13		chlorodifluoromethane	0.391	0.333	14.8	103	0.00	4.26
14		dichlorodifluoromethane	0.633	0.458	27.6#	89	0.01	4.26
15		chloromethane	0.799	0.631	21.0#	99	0.00	4.55
16		vinyl chloride	0.627	0.515	17.9	102	0.00	4.79
17		bromomethane	0.390	0.366	6.2	120	0.00	5.40
18		chloroethane	0.337	0.298	11.6	109	0.00	5.57
19		trichlorofluoromethane	0.637	0.555	12.9	108	0.00	6.03
20		Vinyl Bromide		----------NA----------				
21		ethyl ether	0.234	0.254	-8.5	123	0.00	6.38
22		Acetaldehyde		----------NA----------				
23		Pentane		----------NA----------				
24		Freon 123A		----------NA----------				
25		Freon 141B		----------NA----------				
26		Freon 123		----------NA----------				
27		acrolein	0.083	0.037	55.4#	55	0.00	6.64
28		freon 113	0.291	0.299	-2.7	124	0.00	6.77
29		1,1-dichloroethene	0.371	0.347	6.5	112	0.00	6.80
		----------	True	Calc.	% Drift	----------		
30		acetone	50.000	41.755	16.5	111	0.01	6.89
		----------	AvgRF	CCRF	% Dev	----------		
31		iso-butyl alcohol	0.014	0.014	0.0	116	0.00	10.23
32		allyl chloride	0.082	0.077	6.1	111	0.00	7.30
33		acetonitrile	0.037	0.030	18.9	101	0.00	7.30
34		iodomethane	0.741	0.785	-5.9	124	0.00	7.08
35		carbon disulfide	1.318	1.179	10.5	108	0.00	7.22
36		methylene chloride	0.449	0.461	-2.7	120	0.00	7.48
		----------	True	Calc.	% Drift	----------		
37		methyl acetate	50.000	50.013	-0.0	118	0.00	7.31
		----------	AvgRF	CCRF	% Dev	----------		
38		methyl tert butyl ether	1.313	1.303	0.8	120	0.00	7.80
39		trans-1,2-dichloroethene	0.426	0.401	5.9	113	0.00	7.86
40		di-isopropyl ether	1.585	1.396	11.9	108	0.00	8.38
41		2-butanone	0.046	0.041	10.9	109	-0.02	9.14
42		1,1-dichloroethane	0.761	0.730	4.1	109	0.00	8.41
43		chloroprene	0.529	0.511	3.4	112	0.00	8.53
44		acrylonitrile	0.144	0.135	6.2	112	0.00	7.81
		----------	True	Calc.	% Drift	----------		
45		vinyl acetate	50.000	45.690	8.6	112	0.00	8.42
		----------	AvgRF	CCRF	% Dev	----------		
46		ethyl tert-butyl ether	1.489	1.383	7.1	112	0.00	8.84

			True	Calc.	% Drift			
47		ethyl acetate	50.000	40.671	18.7	108	0.00	9.14
			AvgRF	CCRF	% Dev			
48		2,2-dichloropropane	0.611	0.529	13.4	104	0.00	9.15
49		cis-1,2-dichloroethene	0.476	0.480	-0.8	121	0.00	9.15
50		propionitrile	0.054	0.054	0.0	116	0.00	9.21
			True	Calc.	% Drift			
51		methyl acrylate	50.000	50.633	-1.3	128	0.00	9.26
			AvgRF	CCRF	% Dev			
52		methacrylonitrile	0.153	0.151	1.3	119	0.00	9.41
53		bromochloromethane	0.232	0.257	-10.8	130	0.00	9.46
54		tetrahydrofuran	0.152	0.135	11.2	110	0.00	9.52
55		chloroform	0.749	0.721	3.7	116	0.00	9.51
56		tert-Butyl Formate	0.433	0.380	12.2	108	0.00	9.54
57	S	dibromofluoromethane (s)	0.407	0.410	-0.7	118	0.00	9.71
58	S	1,2-dichloroethane-d4 (s)	0.464	0.415	10.6	102	0.00	10.14
59		1,1,1-trichloroethane	0.593	0.537	9.4	106	0.00	9.78
60		Cyclohexane	0.588	0.534	9.2	107	0.00	9.86
61		Tert Amyl Alcohol	0.017	0.014	17.6	103	-0.01	10.07
62	I	1,4-difluorobenzene	1.000	1.000	0.0	112	0.00	10.60
63		methylcyclohexane	0.458	0.433	5.5	109	0.00	11.19
64		epichlorohydrin	0.030	0.025	16.7	101	0.00	11.92
65		n-butyl alcohol	0.009	0.009	0.0	117	0.00	10.73
66		carbon tetrachloride	0.375	0.350	6.7	105	0.00	9.98
67		1,1-dichloropropene	0.380	0.368	3.2	108	0.00	9.96
68		hexane	0.372	0.322	13.4	107	0.00	8.15
69		2,2,4-Trimethylpentane	1.046	0.912	12.8	105	0.00	10.22
70		benzene	1.208	1.211	-0.2	114	0.00	10.23
71		tert-amyl methyl ether	0.998	0.979	1.9	117	0.00	10.25
72		heptane	0.212	0.182	14.2	109	0.00	10.39
73		isopropyl acetate	0.115	0.108	6.1	113	0.00	10.13
74		1,2-dichloroethane	0.392	0.389	0.8	110	0.00	10.23
75		trichloroethene	0.287	0.289	-0.7	115	0.00	10.96
			True	Calc.	% Drift			
76		Ethyl Acrylate	50.000	51.171	-2.3	114	0.00	10.97
			AvgRF	CCRF	% Dev			
77		tert-Amyl Ethyl Ether	0.493	0.502	-1.8	118	0.00	11.10
78		2-chloroethyl vinyl ether	0.183	0.158	13.7	99	0.00	11.77
79		methyl methacrylate	0.076	0.090	-18.4	129	0.00	11.24
80		1,2-dichloropropane	0.328	0.339	-3.4	117	0.00	11.22
81		dibromomethane	0.179	0.199	-11.2	125	0.00	11.40
82		bromodichloromethane	0.410	0.426	-3.9	116	0.00	11.52
			True	Calc.	% Drift			
83		2-nitropropane	50.000	42.562	14.9	89	0.01	11.77
			AvgRF	CCRF	% Dev			
84		cis-1,3-dichloropropene	0.533	0.572	-7.3	120	0.00	12.02
85	S	toluene-d8 (s)	1.069	1.183	-10.7	128	0.00	12.34
86		4-methyl-2-pentanone	0.121	0.119	1.7	117	0.00	12.12
87		toluene	0.776	0.784	-1.0	115	0.00	12.42
88		isoamyl alcohol	0.015	0.014	6.7	111	0.00	12.14
89		trans-1,3-dichloropropene	0.474	0.505	-6.5	119	0.00	12.63
90		ethyl methacrylate	0.373	0.395	-5.9	118	0.00	12.62
91		1,1,2-trichloroethane	0.230	0.251	-9.1	124	0.00	12.86
92		2-hexanone	0.123	0.112	8.9	115	0.00	13.08
93	I	chlorobenzene-d5	1.000	1.000	0.0	116	0.00	14.02
94		tetrachloroethene	0.371	0.375	-1.1	118	0.00	13.07
95		1,3-dichloropropane	0.490	0.515	-5.1	122	0.00	13.06
96		butyl acetate	0.078	0.067	14.1	101	0.00	13.15
			True	Calc.	% Drift			
97		3,3-Dimethyl-1-Butanol	500.000	486.608	2.7	117	0.00	13.25
			AvgRF	CCRF	% Dev			
98		dibromochloromethane	0.354	0.390	-10.2	128	0.00	13.36
99		1,2-dibromoethane	0.296	0.329	-11.1	127	0.00	13.53
100		chlorobenzene	0.959	1.003	-4.6	122	0.00	14.05
101		1,1,1,2-tetrachloroethane	0.352	0.385	-9.4	125	0.00	14.11

102		ethylbenzene	1.526	1.462	4.2	111	0.00	14.11
103		m,p-xylene	0.625	0.618	1.1	115	0.00	14.23
104		o-xylene	0.629	0.640	-1.7	116	0.00	14.70
105		styrene	1.077	1.093	-1.5	114	0.00	14.72
106		Butyl Acrylate		----------NA----------				
107		bromoform	0.268	0.294	-9.7	126	0.00	15.02
108		cyclohexanone	0.041	0.013	68.3#	53	0.00	15.28
109	S	4-bromofluorobenzene (s)	0.489	0.457	6.5	116	0.00	15.33
110	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	16.64
111		isopropylbenzene	3.000	2.905	3.2	112	0.00	15.08
112		1,1,2,2-tetrachloroethane	0.797	0.796	0.1	120	0.00	15.42
113		trans-1,4-dichloro-2-bute	0.213	0.176	17.4	104	0.00	15.48
114		1,2,3-trichloropropane	0.210	0.219	-4.3	123	0.00	15.51
115		bromobenzene	0.898	0.961	-7.0	123	0.00	15.55
116		n-propylbenzene	3.562	3.180	10.7	105	0.00	15.55
117		4-Ethyltoluene	3.019	2.815	6.8	106	0.00	15.66
118		2-chlorotoluene	0.803	0.795	1.0	115	0.00	15.72
119		4-chlorotoluene	2.292	2.183	4.8	111	0.00	15.83
120		1,3,5-trimethylbenzene	2.706	2.491	7.9	110	0.00	15.72
121		tert-butylbenzene	2.206	2.161	2.0	113	0.00	16.11
122		pentachloroethane	0.559	0.599	-7.2	125	0.00	16.20
123		1,2,4-trimethylbenzene	2.680	2.571	4.1	112	0.00	16.17
124		sec-butylbenzene	3.320	3.121	6.0	109	0.00	16.36
125		p-isopropyltoluene	2.773	2.648	4.5	110	0.00	16.49
126		1,3-dichlorobenzene	1.614	1.636	-1.4	115	0.00	16.58
127		1,4-dichlorobenzene	1.812	1.692	6.6	112	0.00	16.67
128		1,2-dichlorobenzene	1.604	1.628	-1.5	118	0.00	17.11
129		Benzyl Chloride	1.593	1.294	18.8	99	0.00	16.79
130		Vinyl Toluene		----------NA----------				
131		1,4-Diethylbenzene	1.771	1.557	12.1	101	0.00	16.91
132		n-butylbenzene	1.440	1.288	10.6	100	0.00	16.95
133		hexachloroethane	0.528	0.545	-3.2	115	0.00	17.40
134		1,2,4,5-tetramethylbenzen	2.645	2.479	6.3	106	0.00	17.79
135		1,2-dibromo-3-chloropropa	0.135	0.116	14.1	108	0.00	17.96
136		1,3,5-trichlorobenzene	1.321	1.250	5.4	108	0.00	18.18
137		1,2,4-trichlorobenzene	1.181	1.054	10.8	102	0.00	18.90
138		hexachlorobutadiene	0.605	0.644	-6.4	121	0.00	19.02
139		naphthalene	2.237	2.020	9.7	106	0.00	19.23
140		1,2,3-trichlorobenzene	1.035	1.004	3.0	111	0.00	19.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0

V109917.D MVS4646.M Thu Dec 30 14:54:18 2010 RPT1

Response Factor Report MSV

Method : C:\MSDCHEM\1\METHODS\MVS4646.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Dec 16 10:30:02 2010
Response via : Initial Calibration

Calibration Files
1 =V109913.D 10 =V109910.D 100 =V109918.D 50 =V109917.D
20 =V109916.D 200 =V109919.D 5 =V109911.D 0.5 =V109915.D
2 =V109912.D =

Compound	1	10	100	50	20	200	5	0.5	2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------											
2) tertiary butyl alcohol	1.153	1.390	1.411	1.392	1.380	1.316	1.128		1.106	1.285	10.30
3) 1,4-dioxane		0.099	0.125	0.121	0.112	0.120	0.090			0.111	12.74
4) I pentafluorobenzene ----------ISTD----------											
5) Freon 115										0.000	-1.00
6) Freon 23										0.000	-1.00
7) Freon 143A										0.000	-1.00
8) Freon 152A										0.000	-1.00
9) Freon 114										0.000	-1.00
10) Freon 142B										0.000	-1.00
11) Chlorotrifluoroethene										0.000	-1.00
12) 1,3-Butadiene										0.000	-1.00
13) chlorodifluoromethane	0.338	0.461	0.394	0.371	0.405	0.323	0.468		0.367	0.391	13.49
14) dichlorodifluoromethane	0.605	0.707	0.617	0.593	0.646	0.513	0.705		0.679	0.633	10.35
15) chloromethane	0.878	0.877	0.781	0.731	0.785	0.679	0.834		0.829	0.799	8.70
16) vinyl chloride	0.664	0.672	0.619	0.578	0.602	0.535	0.672		0.671	0.627	8.28
17) bromomethane	0.410	0.387	0.390	0.351	0.368	0.343	0.406		0.465	0.390	9.92
18) chloroethane	0.318	0.359	0.340	0.315	0.334	0.294	0.380		0.355	0.337	8.21
19) trichlorofluoromethane		0.716	0.628	0.591	0.638	0.539	0.708		0.635	0.637	9.73
20) Vinyl Bromide										0.000	-1.00
21) ethyl ether		0.252	0.268	0.236	0.244	0.233	0.206		0.199	0.234	10.52
22) Acetaldehyde										0.000	-1.00
23) Pentane										0.000	-1.00
24) Freon 123A										0.000	-1.00
25) Freon 141B										0.000	-1.00
26) Freon 123										0.000	-1.00
27) acrolein	0.088	0.094		0.077	0.077		0.074		0.088	0.083	9.50
28) freon 113	0.248	0.308	0.299	0.277	0.289	0.263	0.326		0.319	0.291	9.28
29) 1,1-dichloroethene	0.371	0.408	0.376	0.354	0.374	0.338	0.400		0.347	0.371	6.62
30) acetone		0.056	0.033	0.028	0.029	0.030				0.035	33.39

----- Linear regression ----- Coefficient = 0.9939
Response Ratio = 0.00194 + 0.03010 *A

31) iso-butyl alcohol
0.015 0.015 0.014 0.014 0.013 0.015 0.012 0.014 8.96
32) allyl chloride
0.087 0.083 0.080 0.080 0.072 0.088 0.082 7.04
33) acetonitrile
0.045 0.040 0.034 0.033 0.032 0.037 0.037 13.38
34) iodomethane
0.640 0.798 0.778 0.724 0.766 0.701 0.789 0.731 0.741 7.17
35) carbon disulfide
1.267 1.472 1.315 1.258 1.331 1.206 1.422 1.268 1.318 6.79
36) methylene chloride
0.405 0.481 0.487 0.442 0.460 0.431 0.459 0.431 0.449 6.16
37) methyl acetate
0.056 0.069 0.060 0.058 0.059 0.040 0.057 16.69
----- Linear regression ----- Coefficient = 0.9926
Response Ratio = 0.00078 + 0.06104 *A

38) methyl tert butyl ether
1.417 1.375 1.423 1.245 1.300 1.196 1.310 1.239 1.313 6.48
39) trans-1,2-dichloroethene
0.424 0.456 0.433 0.407 0.426 0.390 0.458 0.415 0.426 5.49
40) di-isopropyl ether
1.528 1.694 1.622 1.484 1.586 1.394 1.666 1.704 1.585 6.91
41) 2-butanone
0.053 0.053 0.043 0.039 0.043 0.046 14.46
42) 1,1-dichloroethane
0.661 0.862 0.807 0.766 0.792 0.722 0.806 0.675 0.761 9.21
43) chloroprene
0.460 0.575 0.542 0.523 0.556 0.479 0.545 0.554 0.529 7.55
44) acrylonitrile
0.156 0.166 0.139 0.142 0.135 0.144 0.129 0.144 8.72
45) vinyl acetate
0.052 0.075 0.062 0.053 0.069 0.062 15.85
----- Linear regression ----- Coefficient = 0.9962
Response Ratio = -0.00424 + 0.07108 *A

46) ethyl tert-butyl ether
1.505 1.573 1.560 1.415 1.506 1.350 1.526 1.476 1.489 5.01
47) ethyl acetate
0.074 0.071 0.062 0.070 0.055 0.044 0.063 18.03
----- Quadratic regression ----- Coefficient = 0.9958
Response Ratio = -0.00480 + 0.08392 *A + -0.00685 *A^2

48) 2,2-dichloropropane
0.571 0.703 0.592 0.584 0.609 0.511 0.696 0.623 0.611 10.46
49) cis-1,2-dichloroethene
0.473 0.506 0.500 0.454 0.470 0.448 0.481 0.475 0.476 4.21
50) propionitrile
0.055 0.066 0.054 0.052 0.053 0.043 0.054 13.64
51) methyl acrylate
0.033 0.067 0.052 0.047 0.056 0.051 24.81
----- Linear regression ----- Coefficient = 0.9863
Response Ratio = -0.00195 + 0.05855 *A

52) methacrylonitrile
0.155 0.186 0.146 0.156 0.152 0.120 0.153 13.92
53) bromochloromethane
0.250 0.255 0.226 0.232 0.226 0.226 0.211 0.232 6.65
54) tetrahydrofuran
0.167 0.162 0.141 0.141 0.131 0.170 0.149 0.152 9.86
55) chloroform
0.754 0.813 0.762 0.715 0.763 0.678 0.791 0.715 0.749 5.88
56) tert-Butyl Formate
0.447 0.469 0.402 0.434 0.380 0.447 0.453 0.433 7.18
57) dibromofluoromethane (s)
0.398 0.432 0.427 0.397 0.395 0.381 0.401 0.425 0.407 4.53
58) 1,2-dichloroethane-d4 (s)
0.395 0.524 0.476 0.467 0.467 0.407 0.487 0.471 0.486 0.464 8.62
59) 1,1,1-trichloroethane
0.523 0.665 0.606 0.579 0.610 0.532 0.651 0.575 0.593 8.56
60) Cyclohexane
0.540 0.657 0.604 0.574 0.603 0.539 0.669 0.515 0.588 9.56
61) Tert Amyl Alcohol
0.016 0.019 0.015 0.013 0.018 0.017 14.27

62) I 1,4-difluorobenzene ----------ISTD----------

63) methylcyclohexane
0.399 0.535 0.455 0.442 0.480 0.416 0.512 0.406 0.474 0.458 10.28
64) epichlorohydrin
0.031 0.033 0.028 0.028 0.026 0.034 0.027 0.030 10.79
65) n-butyl alcohol
0.010 0.011 0.009 0.009 0.008 0.008 0.009 14.82
66) carbon tetrachloride
0.336 0.419 0.374 0.372 0.388 0.336 0.417 0.358 0.375 8.52
67) 1,1-dichloropropene
0.323 0.436 0.390 0.380 0.394 0.359 0.412 0.349 0.380 9.47
68) hexane
0.390 0.418 0.345 0.335 0.367 0.311 0.393 0.415 0.372 10.49
69) 2,2,4-Trimethylpentane
0.954 1.209 1.002 0.971 1.044 0.910 1.220 1.053 1.046 10.94
70) benzene
1.146 1.342 1.238 1.184 1.212 1.123 1.282 1.136 1.208 6.35
71) tert-amyl methyl ether
1.161 1.028 1.022 0.933 0.971 0.891 0.981 0.997 0.998 8.00
72) heptane
0.229 0.244 0.198 0.186 0.211 0.178 0.245 0.202 0.212 12.05
73) isopropyl acetate
0.121 0.127 0.107 0.110 0.107 0.117 0.115 7.07
74) 1,2-dichloroethane
0.376 0.427 0.413 0.394 0.396 0.369 0.394 0.363 0.392 5.59
75) trichloroethene
0.257 0.316 0.295 0.280 0.290 0.269 0.315 0.273 0.287 7.33
76) Ethyl Acrylate
0.059 0.062 0.057 0.056 0.054 0.032 0.054 20.27
----- Linear regression ----- Coefficient = 0.9939
Response Ratio = 0.00182 + 0.05521 *A
77) tert-Amyl Ethyl Ether
0.462 0.524 0.514 0.475 0.488 0.468 0.519 0.494 0.493 4.84
78) 2-chloroethyl vinyl ether
0.202 0.207 0.177 0.183 0.172 0.185 0.153 0.183 9.98
79) methyl methacrylate
0.077 0.091 0.078 0.074 0.077 0.061 0.076 12.26
80) 1,2-dichloropropane
0.317 0.350 0.345 0.324 0.333 0.312 0.349 0.292 0.328 6.16
81) dibromomethane
0.145 0.200 0.197 0.178 0.183 0.176 0.190 0.180 0.158 0.179 9.97
82) bromodichloromethane
0.410 0.435 0.436 0.409 0.421 0.395 0.418 0.355 0.410 6.33
83) 2-nitropropane
0.004 0.006 0.006 0.004 0.005 0.005 18.27
----- Linear regression ----- Coefficient = 0.9887
Response Ratio = 0.00022 + 0.00531 *A
84) cis-1,3-dichloropropene
0.494 0.582 0.564 0.531 0.554 0.511 0.541 0.487 0.533 6.34
85) toluene-d8 (s)
1.110 1.117 1.070 1.034 1.044 0.969 1.119 1.027 1.133 1.069 5.15
86) 4-methyl-2-pentanone
0.136 0.137 0.113 0.112 0.109 0.120 0.121 10.30
87) toluene
0.772 0.827 0.782 0.761 0.772 0.709 0.817 0.769 0.776 4.68
88) isoamyl alcohol
0.018 0.017 0.014 0.014 0.013 0.013 0.015 13.73
89) trans-1,3-dichloropropene
0.357 0.530 0.527 0.473 0.491 0.460 0.495 0.459 0.474 11.49
90) ethyl methacrylate
0.411 0.427 0.373 0.380 0.360 0.287 0.373 13.10
91) 1,1,2-trichloroethane
0.213 0.245 0.251 0.225 0.233 0.218 0.231 0.222 0.230 5.65
92) 2-hexanone
0.150 0.139 0.109 0.110 0.112 0.117 0.123 14.09

93) I chlorobenzene-d5 ----------ISTD----------
94) tetrachloroethene
0.327 0.419 0.386 0.369 0.393 0.355 0.377 0.338 0.371 8.08
95) 1,3-dichloropropane
0.434 0.535 0.537 0.489 0.522 0.474 0.474 0.458 0.490 7.67
96) butyl acetate
0.090 0.085 0.078 0.084 0.070 0.061 0.078 13.90
97) 3,3-Dimethyl-1-Butanol
0.027 0.029 0.022 0.023 0.020 0.019 0.023 16.31
----- Quadratic regression ----- Coefficient = 0.9983

Response Ratio = 0.01016 + 0.01481 *A + 0.00066 *A^2

98)	dibromochloromethane										
		0.332	0.367	0.390	0.353	0.363	0.348	0.351	0.329	0.354	5.52
99)	1,2-dibromoethane										
		0.230	0.334	0.335	0.301	0.308	0.291	0.291	0.280	0.296	11.20
100)	chlorobenzene										
		0.909	1.026	1.002	0.953	0.986	0.911	1.012	0.876	0.959	5.77
101)	1,1,1,2-tetrachloroethane										
		0.317	0.373	0.381	0.357	0.364	0.347	0.345	0.335	0.352	5.90
102)	ethylbenzene										
		1.440	1.670	1.572	1.528	1.561	1.416	1.589	1.431	1.526	5.90
103)	m,p-xylene										
		0.583	0.694	0.642	0.624	0.648	0.583	0.639	0.591	0.625	6.16
104)	o-xylene										
		0.607	0.662	0.656	0.639	0.651	0.603	0.643	0.568	0.629	5.17
105)	styrene										
		1.031	1.184	1.154	1.110	1.122	1.047	1.074	0.893	1.077	8.39
106)	Butyl Acrylate										
										0.000	-1.00
107)	bromoform										
		0.250	0.288	0.309	0.271	0.277	0.266	0.268	0.220	0.268	9.79
108)	cyclohexanone										
			0.077	0.028	0.027	0.026	0.021	0.065		0.041	58.68
109)	4-bromofluorobenzene (s)										
		0.563	0.505	0.486	0.457	0.449	0.436	0.477	0.537	0.489	9.01
110)	I 1,4-dichlorobenzene-d ----------ISTD----------										
111)	isopropylbenzene										
		2.997	3.265	2.892	2.870	2.977	2.777	3.378	2.843	3.000	7.09
112)	1,1,2,2-tetrachloroethane										
		0.856	0.871	0.841	0.730	0.796	0.728	0.841	0.712	0.797	8.10
113)	trans-1,4-dichloro-2-butene										
			0.236	0.221	0.186	0.220	0.193	0.222		0.213	9.00
114)	1,2,3-trichloropropane										
			0.226	0.220	0.196	0.205	0.192	0.224		0.210	6.98
115)	bromobenzene										
		0.899	0.951	0.912	0.863	0.878	0.878	0.952	0.853	0.898	4.20
116)	n-propylbenzene										
		3.688	3.832	3.397	3.356	3.481	3.233	3.942	3.570	3.562	6.86
117)	4-Ethyltoluene										
			3.171	2.972	2.934	3.010	2.839	3.170	3.033	3.019	4.02
118)	2-chlorotoluene										
		0.826	0.847	0.794	0.764	0.791	0.767	0.854	0.783	0.803	4.34
119)	4-chlorotoluene										
		2.224	2.395	2.233	2.179	2.278	2.113	2.550	2.362	2.292	6.07
120)	1,3,5-trimethylbenzene										
			2.856	2.558	2.490	2.609	2.389	3.089	2.947	2.706	9.61
121)	tert-butylbenzene										
		2.277	2.335	2.166	2.114	2.193	2.076	2.352	2.135	2.206	4.70
122)	pentachloroethane										
		0.611	0.593	0.558	0.530	0.534	0.515	0.602	0.530	0.559	6.73
123)	1,2,4-trimethylbenzene										
		2.938	2.778	2.606	2.538	2.642	2.433	2.880	2.622	2.680	6.43
124)	sec-butylbenzene										
		3.269	3.617	3.213	3.174	3.312	3.025	3.708	3.245	3.320	6.90
125)	p-isopropyltoluene										
		2.838	3.022	2.741	2.665	2.731	2.536	3.029	2.626	2.773	6.45
126)	1,3-dichlorobenzene										
		1.670	1.707	1.672	1.569	1.630	1.531	1.687	1.443	1.614	5.67
127)	1,4-dichlorobenzene										
		1.969	1.880	1.764	1.669	1.736	1.576	1.974	1.928	1.812	8.17
128)	1,2-dichlorobenzene										
		1.718	1.653	1.656	1.521	1.595	1.463	1.723	1.503	1.604	6.20
129)	Benzyl Chloride										
		1.716	1.783	1.637	1.440	1.511	1.373	1.740	1.540	1.593	9.37
130)	Vinyl Toluene										
										0.000	-1.00
131)	1,4-Diethylbenzene										
		1.697	1.870	1.784	1.696	1.774	1.640	1.810	1.901	1.771	5.07
132)	n-butylbenzene										
		1.324	1.580	1.471	1.426	1.473	1.351	1.552	1.343	1.440	6.71
133)	hexachloroethane										
		0.516	0.557	0.544	0.521	0.536	0.512	0.541	0.496	0.528	3.77
134)	1,2,4,5-tetramethylbenzene										
		2.515	2.746	2.803	2.579	2.702	2.529	2.687	2.570	2.670	2.645	3.81
135)	1,2-dibromo-3-chloropropane										

```
                0.160 0.148 0.119 0.129 0.120                      0.135   13.46
136)  1,3,5-trichlorobenzene
          1.339 1.372 1.363 1.276 1.350 1.238 1.414       1.215   1.321    5.29
137)  1,2,4-trichlorobenzene
          1.318 1.177 1.262 1.138 1.130 1.152 1.218       1.056   1.181    6.98
138)  hexachlorobutadiene
          0.543 0.664 0.629 0.589 0.606 0.595 0.687       0.526   0.605    9.14
139)  naphthalene
                2.295 2.568 2.110 2.125 2.174 2.153               2.237    7.81
140)  1,2,3-trichlorobenzene
          1.115 1.042 1.154 0.995 1.023 1.023 1.058 1.058 0.846   1.035    8.31
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MVS4646.M         Thu Dec 30 15:07:34 2010   RPT1
```

V100502.CC
Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V100502.D Vial: 25
Acq On : 7 Mar 2010 12:20 am Operator: JIANHUAL
Sample : CC4196-50 Inst : MSV
Misc : MS93430,VV4201,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS4196.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Mar 05 16:59:44 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	100	0.00	7.46
2	I	pentafluorobenzene	1.000	1.000	0.0	113	0.00	9.68
3		Freon 115	0.195	0.168	13.8	102	0.01	3.89
4		Freon 23	0.232	0.189	18.5	94	0.01	3.88
5		Freon 143A	0.117	0.099	15.4	102	0.01	3.91
6		Freon 152A	0.314	0.277	11.8	96	0.00	4.08
7		Freon 114	0.383	0.362	5.5	106	0.01	4.47
8		Freon 142B	0.599	0.538	10.2	96	0.01	4.47
9		Chlorotrifluoroethene	0.395	0.370	6.3	108	0.00	4.14
10		1,3-Butadiene	0.363	0.318	12.4	103	0.00	4.84
11		Vinyl Bromide	0.571	0.517	9.5	98	0.00	5.90
12		Acetaldehyde	0.073	0.059	19.2	102	0.00	4.99
13		Pentane	0.411	0.378	8.0	109	0.01	6.09
14		Freon 123A	0.172	0.161	6.4	98	0.01	6.39
15		Freon 141B	0.716	0.674	5.9	99	0.00	6.40
16		Freon 123	0.168	0.152	9.5	98	0.01	6.48
17	S	dibromofluoromethane (s)	0.590	0.568	3.7	109	0.00	9.74
18	S	1,2-dichloroethane-d4 (s)	0.555	0.530	4.5	109	0.00	10.17
19	I	1,4-difluorobenzene	1.000	1.000	0.0	114	0.00	10.63
20		Ethyl Acrylate	0.258	0.225	12.8	93	0.00	11.02
21	S	toluene-d8 (s)	1.379	1.346	2.4	109	0.00	12.37
22	I	chlorobenzene-d5	1.000	1.000	0.0	113	0.00	14.05
23		Butyl Acrylate	0.375	0.411	-9.6	111	0.00	14.54
24	S	4-bromofluorobenzene (s)	0.569	0.581	-2.1	111	0.00	15.36
25	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	16.67
26		Vinyl Toluene	1.639	1.693	-3.3	104	0.00	16.96

(#) = Out of Range SPCC's out = 0 CCC's out = 0
V100435.D MVS4196.M Mon Mar 08 09:48:00 2010 RPT1

Response Factor Report MSV

Method : C:\MSDCHEM\1\METHODS\MVS4196.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Mar 05 16:59:44 2010
Response via : Initial Calibration

Calibration Files

1	=V100430.D	10	=V100433.D	100	=V100436.D	50	=V100435.D
20	=V100434.D	200	=V100437.D	5	=V100432.D	0.5	=V100429.D
2	=V100431.D	0.2	=V100428.D		=		=

Compound

Compound	1	10	100	50	20	200	5	0.5	2	0.2	Avg	%RSD
1) I Tert Butyl Alcohol-d9 ----------ISTD----------												
2) I pentafluorobenzene ----------ISTD----------												
3) Freon 115	0.235	0.190	0.186	0.168	0.181	0.224		0.183			0.195	12.53
4) Freon 23	0.239	0.257	0.188	0.227	0.244	0.194	0.257	0.246			0.232	11.50
5) Freon 143A	0.135	0.116	0.109	0.105	0.102	0.138		0.118			0.117	12.02
6) Freon 152A	0.311	0.348	0.255	0.325	0.342	0.265	0.346	0.318			0.314	11.39
7) Freon 114	0.333	0.432	0.336	0.386	0.416	0.335	0.411	0.417			0.383	11.02
8) Freon 142B	0.661	0.519	0.632	0.681	0.530	0.644		0.527			0.599	11.81
9) Chlorotrifluoroethene	0.345	0.456	0.345	0.388	0.430	0.358	0.439	0.399			0.395	11.09
10) 1,3-Butadiene	0.330	0.409	0.404	0.348	0.304	0.376	0.400	0.365	0.372	0.319	0.363	10.10
11) Vinyl Bromide	0.537	0.594	0.654	0.595	0.510	0.588	0.584	0.539	0.539		0.571	7.70
12) Acetaldehyde	0.074	0.060	0.065	0.078			0.085				0.073	13.94
13) Pentane	0.457	0.437	0.345	0.391	0.429	0.339	0.428	0.460			0.411	11.50
14) Freon 123A	0.153	0.199	0.143	0.185	0.197	0.156	0.185	0.155			0.172	12.97
15) Freon 141B	0.653	0.798	0.615	0.772	0.805	0.680	0.763	0.664	0.690		0.716	9.74
16) Freon 123	0.161	0.185	0.132	0.175	0.193	0.142	0.187	0.168			0.168	13.08
17) dibromofluoromethane (s)	0.584	0.607	0.595	0.589	0.600	0.574	0.604	0.567	0.596	0.583	0.590	2.21
18) 1,2-dichloroethane-d4 (s)	0.554	0.568	0.569	0.550	0.563	0.542	0.568	0.544	0.557	0.532	0.555	2.25
19) I 1,4-difluorobenzene ----------ISTD----------												
20) Ethyl Acrylate	0.222	0.338	0.277	0.120	0.339	0.250					0.258	31.98
21) toluene-d8 (s)	1.380	1.380	1.386	1.407	1.375	1.390	1.363	1.367	1.382	1.360	1.379	1.02
22) I chlorobenzene-d5 ----------ISTD----------												
23) Butyl Acrylate	0.251	0.530	0.418	0.268	0.545	0.240					0.375	37.60
24) 4-bromofluorobenzene (s)	0.560	0.562	0.587	0.590	0.573	0.574	0.568	0.551	0.559	0.561	0.569	2.17
25) I 1,4-dichlorobenzene-d ----------ISTD----------												
26) Vinyl Toluene	1.704	1.473	1.780	1.914	1.580	1.592		1.430			1.639	10.48

(#) = Out of Range ### Number of calibration levels exceeded format ###

MVS4196.M Thu Dec 30 15:10:17 2010 RPT1

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1b51716.D
Acq On : 30 Dec 2010 10:47 am
Sample : cc2336-10
Misc : MS6739,V1B2366,W,,,,1
MS Integration Params: rteint.p

Vial: 2
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Thu Dec 09 09:30:59 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	93	-0.03	7.83
2	M	TERTIARY BUTYL ALCOHOL	1.222	1.220	0.2	94	-0.02	7.97
3	m	1,4-Dioxane	0.086	0.096	-11.6	97	0.00	12.11
4	I	FLUOROBENZENE	1.000	1.000	0.0	95	-0.02	11.27
5	S	4-BROMOFLUOROBENZENE (S)	0.357	0.371	-3.9	98	-0.01	16.01
6	S	1,2-DICHLOROBENZENE-d4 (S	0.361	0.396	-9.7	105	-0.01	17.70
7	M	DICHLORODIFLUOROMETHANE	0.372	0.367	1.3	87	0.00	4.03
8	M	CHLOROMETHANE	0.486	0.441	9.3	87	-0.02	4.36
9	M	VINYL CHLORIDE	0.381	0.363	4.7	85	-0.03	4.65
10	M	BROMOMETHANE	0.248	0.234	5.6	89	-0.01	5.38
11	M	CHLOROETHANE	0.228	0.225	1.3	91	-0.01	5.59
12	M	TRICHLOROFLUOROMETHANE	0.347	0.364	-4.9	92	-0.02	6.16
13	M	ETHYL ETHER	0.208	0.185	11.1	81	-0.01	6.63
14	M	ACROLEIN	0.081	0.087	-7.4	103	-0.01	6.84
15	M	1,1-DICHLOROETHYLENE	0.243	0.231	4.9	87	-0.02	7.10
16	M	FREON 113	0.145	0.158	-9.0	95	-0.02	7.10
17	M	ACETONE	0.031	0.031	0.0	88	0.00	7.10
18	M	IODOMETHANE	0.387	0.399	-3.1	93	-0.02	7.38
19	M	CARBON DISULFIDE	0.899	0.888	1.2	86	-0.02	7.56
		----------	True	Calc.	% Drift	----------		
20	M	METHYL ACETATE	10.000	11.323	-13.2	111	0.00	7.67
		----------	AvgRF	CCRF	% Dev	----------		
21	M	ALLYL CHLORIDE	0.160	0.157	1.9	86	-0.01	7.68
22	M	METHYLENE CHLORIDE	0.351	0.308	12.3	81	-0.01	7.89
23	M	ACRYLONITRILE	0.145	0.149	-2.8	93	-0.01	8.20
24	M	METHYL TERT BUTYL ETHER	0.958	0.966	-0.8	93	-0.02	8.32
25	M	trans-1,2-DICHLOROETHYLEN	0.389	0.368	5.4	82	-0.01	8.35
26	M	HEXANE	0.278	0.276	0.7	83	-0.01	8.76
27	M	1,1-DICHLOROETHANE	0.489	0.488	0.2	88	-0.02	8.96
28	M	DI-ISOPROPYL ETHER	1.004	0.897	10.7	86	-0.01	9.01
29	M	ETHYL TERT-BUTYL ETHER	0.996	0.949	4.7	90	-0.02	9.53
30	M	2-BUTANONE	0.038	0.040	-5.3	92	0.00	9.72
31	M	2,2-DICHLOROPROPANE	0.384	0.398	-3.6	95	-0.01	9.81
32	M	cis-1,2-DICHLOROETHYLENE	0.317	0.318	-0.3	95	-0.01	9.79
33	M	PROPIONITRILE	0.058	0.060	-3.4	94	0.00	9.77
34	M	METHYLACRYLATE	0.301	0.302	-0.3	89	0.00	9.87
35	M	METHACRYLONITRILE	0.207	0.216	-4.3	95	-0.01	10.01
36	M	BROMOCHLOROMETHANE	0.138	0.154	-11.6	98	-0.01	10.12
37	M	CHLOROFORM	0.475	0.480	-1.1	94	-0.02	10.18
38	M	TETRAHYDROFURAN	0.152	0.140	7.9	99	0.00	10.19
39	M	1,1,1-TRICHLOROETHANE	0.367	0.392	-6.8	93	-0.01	10.49
40	M	CYCLOHEXANE	0.389	0.363	6.7	80	-0.01	10.61
41	M	1-CHLOROBUTANE	1.013	0.952	6.0	81	-0.02	10.59
42	M	1,1-DICHLOROPROPENE	0.349	0.353	-1.1	86	0.00	10.70
43	M	CARBON TETRACHLORIDE	0.298	0.330	-10.7	94	0.00	10.74
44	M	1,2-DICHLOROETHANE	0.364	0.402	-10.4	98	-0.02	10.93
45	M	BENZENE	1.091	1.098	-0.6	89	-0.02	10.95
46	M	TERT AMYL METHYL ETHER	0.983	0.917	6.7	92	-0.01	11.03
47	M	TRICHLOROETHYLENE	0.257	0.265	-3.1	90	-0.01	11.74
48	M	METHYLCYCLOHEXANE	0.393	0.400	-1.8	87	-0.01	12.01
49	M	METHYL METHACRYLATE	0.333	0.319	4.2	86	-0.01	12.01
50	M	1,2-DICHLOROPROPANE	0.299	0.303	-1.3	90	-0.01	11.98
51	M	DIBROMOMETHANE	0.175	0.193	-10.3	98	-0.01	12.14
52	M	BROMODICHLOROMETHANE	0.358	0.377	-5.3	95	-0.01	12.29
53	M	CHLOROACETONITRILE	0.021	0.025	-19.0	108	0.00	12.44
54	M	2-NITROPROPANE	0.090	0.096	-6.7	102	-0.01	12.47
55	M	2-CHLOROETHYL VINYL ETHER	0.226	0.215	4.9	89	-0.01	12.55
56	M	cis-1,3-DICHLOROPROPENE	0.469	0.495	-5.5	94	-0.01	12.79
57	M	4-METHYL-2-PENTANONE	0.149	0.140	6.0	88	-0.01	12.88

58	M	1,1-DICHLOROPROPANONE	0.113	0.121	-7.1	96	0.00	12.98
59	M	TOLUENE	0.642	0.662	-3.1	90	-0.01	13.21
60	M	trans-1,3-DICHLOROPROPENE	0.444	0.471	-6.1	95	0.00	13.39
61	M	ETHYL METHACRYLATE	0.438	0.416	5.0	86	-0.01	13.40
62	M	1,1,2-TRICHLOROETHANE	0.231	0.246	-6.5	97	-0.01	13.61
63	M	1,3-DICHLOROPROPANE	0.461	0.496	-7.6	97	-0.01	13.81
64	M	2-HEXANONE	0.143	0.137	4.2	90	-0.01	13.80
65	M	TETRACHLOROETHYLENE	0.254	0.275	-8.3	93	-0.01	13.87
66	M	DIBROMOCHLOROMETHANE	0.273	0.309	-13.2	101	-0.01	14.11
67	M	1,2-DIBROMOETHANE	0.264	0.291	-10.2	98	-0.01	14.27
68	M	CHLOROBENZENE	0.711	0.772	-8.6	97	-0.01	14.80
69	M	1,1,1,2-TETRACHLOROETHANE	0.262	0.294	-12.2	102	-0.01	14.86
70	M	ETHYLBENZENE	1.261	1.292	-2.5	91	-0.01	14.87
71	M	m,p-XYLENE	0.479	0.516	-7.7	96	-0.01	14.98
72	M	o-XYLENE	0.481	0.525	-9.1	97	-0.01	15.44
73	M	STYRENE	0.821	0.832	-1.3	90	-0.01	15.44
74	M	BROMOFORM	0.207	0.228	-10.1	101	0.00	15.71
75	M	ISOPROPYLBENZENE	1.259	1.352	-7.4	94	-0.01	15.81
76	M	BROMOBENZENE	0.303	0.342	-12.9	103	-0.01	16.23
77	M	1,1,2,2-TETRACHLOROETHANE	0.436	0.464	-6.4	99	-0.01	16.09
78	M	TRANS-1,4-DICHLORO-2-BUTE	0.114	0.128	-12.3	104	-0.01	16.13
79	M	1,2,3-TRICHLOROPROPANE	0.119	0.134	-12.6	104	-0.01	16.17
80	M	n-PROPYLBENZENE	1.533	1.591	-3.8	93	-0.01	16.25
81	M	O-CHLOROTOLUENE	0.298	0.329	-10.4	100	-0.01	16.41
82	M	1,3,5-TRIMETHYLBENZENE	1.084	1.173	-8.2	96	0.00	16.41
83	M	P-CHLOROTOLUENE	0.977	1.031	-5.5	96	-0.01	16.51
84	M	tert-BUTYLBENZENE	0.915	1.015	-10.9	99	-0.01	16.79
85	M	1,2,4-TRIMETHYLBENZENE	1.129	1.214	-7.5	97	-0.01	16.83
86	M	PENTACHLOROETHANE	0.191	0.227	-18.8	108	0.00	16.87
87	M	sec-BUTYLBENZENE	1.413	1.539	-8.9	96	-0.01	17.02
88	M	p-ISOPROPYLTOLUENE	1.148	1.298	-13.1	100	-0.01	17.14
89	M	M-DICHLOROBENZENE	0.608	0.694	-14.1	104	0.00	17.22
90	M	P-DICHLOROBENZENE	0.633	0.721	-13.9	103	-0.01	17.30
91	M	n-BUTYLBENZENE	0.627	0.695	-10.8	97	-0.01	17.58
92	M	O-DICHLOROBENZENE	0.624	0.719	-15.2	105	0.00	17.72
93	M	HEXACHLOROETHANE	0.169	0.199	-17.8	102	-0.01	18.03
94	M	1,2-DIBROMO-3-CHLOROPROPA	0.076	0.084	-10.5	101	-0.01	18.51
95	M	NITROBENZENE	0.040	0.057	-42.5#	135	0.00	18.72
96	M	1,2,4-TRICHLOROBENZENE	0.477	0.512	-7.3	96	-0.01	19.41
97	M	HEXACHLOROBUTADIENE	0.222	0.229	-3.2	91	-0.01	19.55
98	M	NAPHTHALENE	1.425	1.470	-3.2	93	-0.01	19.70
99	M	1,2,3-TRICHLOROBENZENE	0.465	0.502	-8.0	97	0.00	19.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1b51066.D M1B2336.M Thu Dec 30 14:32:15 2010 MS1B

Response Factor Report MS1B

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524. zb624 60mx0.25mmx1.4um
Last Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Calibration Files
5 =1b51065.D 10 =1b51066.D 1 =1b51063.D 20 =1b51067.D
40 =1b51068.D 2 =1b51064.D 0.5 =1b51062.D =

Compound	5	10	1	20	40	2	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9					----------ISTD----------				
2) TERTIARY BUT	1.226	1.201	1.157	1.236	1.202	1.191	1.342	1.222	4.81
3) 1,4-Dioxane	0.082	0.091	0.077	0.095	0.091	0.079		0.086	8.83
4) I FLUOROBENZENE					----------ISTD----------				
5) 4-BROMOFLUOR	0.357	0.357	0.356	0.357	0.357	0.360	0.356	0.357	0.43
6) 1,2-DICHLORO	0.364	0.357	0.359	0.361	0.361	0.363	0.363	0.361	0.70
7) DICHLORODIFL	0.448	0.398	0.407	0.305	0.352	0.322		0.372	14.76
8) CHLOROMETHAN	0.510	0.480	0.523	0.414	0.471	0.499	0.505	0.486	7.48
9) VINYL CHLORI	0.436	0.408	0.390	0.344	0.397	0.374	0.321	0.381	10.20
10) BROMOMETHANE	0.263	0.249	0.262	0.214	0.246	0.255	0.246	0.248	6.66
11) CHLOROETHANE	0.250	0.234	0.241	0.200	0.229	0.231	0.209	0.228	7.67
12) TRICHLOROFLU	0.414	0.376	0.349	0.291	0.344	0.306		0.347	12.98
13) ETHYL ETHER	0.210	0.216	0.219	0.200	0.193	0.224	0.191	0.208	6.28
14) ACROLEIN	0.081	0.080	0.086	0.073	0.080	0.089		0.081	6.83
15) 1,1-DICHLORO	0.255	0.252	0.243	0.226	0.223	0.245	0.257	0.243	5.72
16) FREON 113	0.179	0.158	0.116	0.136	0.143	0.139		0.145	14.79
17) ACETONE	0.030	0.033	0.026	0.033	0.031	0.030		0.031	8.34
18) IODOMETHANE	0.405	0.408	0.372	0.384	0.376	0.392	0.372	0.387	3.84
19) CARBON DISUL	0.969	0.976	0.854	0.884	0.880	0.911	0.822	0.899	6.35
20) METHYL ACETA	0.057	0.059	0.027	0.064	0.063	0.050		0.053	26.32
----- Linear regression ----- Coefficient = 0.9997									
Response Ratio = -0.00633 + 0.06392 *A									
21) ALLYL CHLORI	0.174	0.173	0.160	0.154	0.151	0.166	0.142	0.160	7.47
22) METHYLENE CH	0.353	0.360	0.353	0.333	0.328	0.347	0.382	0.351	5.07
23) ACRYLONITRIL	0.149	0.152	0.138	0.153	0.144	0.150	0.129	0.145	5.85
24) METHYL TERT	0.961	0.980	0.951	0.948	0.925	0.962	0.981	0.958	2.04
25) trans-1,2-DI	0.415	0.426	0.366	0.385	0.373	0.385	0.373	0.389	5.91
26) HEXANE	0.351	0.314	0.275	0.266	0.266	0.287	0.187	0.278	18.22
27) 1,1-DICHLORO	0.521	0.527	0.479	0.484	0.468	0.497	0.449	0.489	5.70
28) DI-ISOPROPYL	1.041	0.991	1.055	0.965	0.951	0.968	1.058	1.004	4.60
29) ETHYL TERT-B	1.047	0.996	0.967	1.000	0.987	0.965	1.014	0.996	2.86
30) 2-BUTANONE	0.038	0.042	0.030	0.043	0.040	0.037		0.038	11.64
31) 2,2-DICHLORO	0.405	0.397	0.387	0.356	0.341	0.391	0.413	0.384	6.89
32) cis-1,2-DICH	0.310	0.316	0.346	0.291	0.280	0.310	0.367	0.317	9.56
33) PROPIONITRIL	0.057	0.060	0.058	0.062	0.058	0.059	0.054	0.058	3.90
34) METHYLACRYLA	0.304	0.320	0.249	0.330	0.319	0.284		0.301	9.96
35) METHACRYLONI	0.205	0.216	0.176	0.220	0.211	0.197	0.226	0.207	8.16
36) BROMOCHLOROM	0.142	0.149	0.137	0.141	0.136	0.133	0.125	0.138	5.57
37) CHLOROFORM	0.484	0.486	0.481	0.459	0.441	0.460	0.514	0.475	5.01
38) TETRAHYDROFU	0.161	0.134	0.158	0.144	0.130	0.186		0.152	13.60
39) 1,1,1-TRICHL	0.398	0.401	0.345	0.362	0.353	0.376	0.335	0.367	6.97
40) CYCLOHEXANE	0.446	0.432	0.383	0.375	0.372	0.399	0.319	0.389	10.80
41) 1-CHLOROBUTA	1.122	1.117	0.954	0.991	0.964	1.055	0.887	1.013	8.70
42) 1,1-DICHLORO	0.380	0.387	0.322	0.351	0.338	0.356	0.304	0.349	8.57
43) CARBON TETRA	0.325	0.332	0.278	0.299	0.292	0.304	0.258	0.298	8.55
44) 1,2-DICHLORO	0.379	0.390	0.346	0.378	0.365	0.362	0.325	0.364	6.08
45) BENZENE	1.137	1.168	1.044	1.078	1.046	1.098	1.068	1.091	4.28
46) TERT AMYL ME	1.034	0.942	0.931	0.946	0.937	0.948	1.141	0.983	7.95
47) TRICHLOROETH	0.273	0.279	0.240	0.259	0.251	0.258	0.242	0.257	5.73
48) METHYLCYCLOH	0.487	0.434	0.380	0.381	0.392	0.401	0.273	0.393	16.53
49) METHYL METHA	0.349	0.353	0.308	0.343	0.335	0.338	0.302	0.333	6.01
50) 1,2-DICHLORO	0.306	0.320	0.279	0.303	0.295	0.303	0.286	0.299	4.60
51) DIBROMOMETHA	0.180	0.187	0.162	0.181	0.176	0.171	0.166	0.175	4.97
52) BROMODICHLOR	0.363	0.375	0.349	0.359	0.354	0.349	0.357	0.358	2.54
53) CHLOROACETON	0.020	0.022	0.019	0.022	0.021	0.022	0.018	0.021	8.17
54) 2-NITROPROPA	0.082	0.088	0.099	0.090	0.085	0.096		0.090	7.40
55) 2-CHLOROETHY	0.234	0.230	0.213	0.236	0.228	0.224	0.218	0.226	3.75
56) cis-1,3-DICH	0.479	0.500	0.450	0.475	0.463	0.458	0.456	0.469	3.66
57) 4-METHYL-2-P	0.143	0.152	0.141	0.151	0.140	0.153	0.159	0.149	4.64
58) 1,1-DICHLORO	0.101	0.119	0.095	0.128	0.124	0.108		0.113	11.77
59) TOLUENE	0.666	0.698	0.585	0.642	0.626	0.636	0.641	0.642	5.44
60) trans-1,3-DI	0.451	0.468	0.431	0.449	0.442	0.438	0.433	0.444	2.87
61) ETHYL METHAC	0.426	0.458	0.421	0.442	0.428	0.434	0.454	0.438	3.20
62) 1,1,2-TRICHL	0.231	0.241	0.215	0.230	0.224	0.234	0.241	0.231	3.99

63) 1,3-DICHLORO	0.462	0.484	0.444	0.464	0.453	0.457	0.462	0.461	2.69
64) 2-HEXANONE	0.135	0.145	0.139	0.146	0.136	0.151	0.151	0.143	4.63
65) TETRACHLOROE	0.272	0.279	0.234	0.255	0.247	0.258	0.231	0.254	7.15
66) DIBROMOCHLOR	0.272	0.289	0.266	0.277	0.275	0.271	0.259	0.273	3.44
67) 1,2-DIBROMOE	0.265	0.281	0.254	0.275	0.269	0.260	0.247	0.264	4.49
68) CHLOROBENZEN	0.721	0.755	0.684	0.704	0.694	0.704	0.716	0.711	3.25
69) 1,1,1,2-TETR	0.272	0.274	0.256	0.259	0.257	0.261	0.258	0.262	2.76
70) ETHYLBENZENE	1.317	1.353	1.187	1.258	1.223	1.255	1.234	1.261	4.49
71) m,p-XYLENE	0.500	0.511	0.457	0.476	0.464	0.479	0.467	0.479	4.10
72) o-XYLENE	0.504	0.515	0.465	0.479	0.473	0.480	0.450	0.481	4.64
73) STYRENE	0.838	0.880	0.777	0.822	0.816	0.820	0.798	0.821	3.92
74) BROMOFORM	0.199	0.214	0.198	0.208	0.205	0.207	0.216	0.207	3.31
75) ISOPROPYLBEN	1.325	1.360	1.170	1.254	1.229	1.273	1.203	1.259	5.32
76) BROMOBENZENE	0.310	0.316	0.294	0.304	0.296	0.306	0.297	0.303	2.69
77) 1,1,2,2-TETR	0.417	0.443	0.436	0.428	0.413	0.466	0.453	0.436	4.43
78) TRANS-1,4-DI	0.111	0.117	0.109	0.116	0.111	0.121	0.112	0.114	3.76
79) 1,2,3-TRICHL	0.117	0.122	0.115	0.120	0.114	0.131	0.117	0.119	4.75
80) n-PROPYLBENZ	1.596	1.630	1.471	1.516	1.481	1.552	1.485	1.533	4.02
81) O-CHLOROTOLU	0.304	0.310	0.282	0.290	0.284	0.303	0.312	0.298	4.18
82) 1,3,5-TRIMET	1.124	1.158	1.030	1.075	1.072	1.100	1.028	1.084	4.38
83) P-CHLOROTOLU	0.997	1.015	0.962	0.947	0.923	0.990	1.005	0.977	3.45
84) tert-BUTYLBE	0.940	0.975	0.851	0.920	0.910	0.924	0.884	0.915	4.35
85) 1,2,4-TRIMET	1.154	1.189	1.068	1.111	1.096	1.150	1.132	1.129	3.59
86) PENTACHLOROE	0.187	0.199	0.176	0.191	0.195	0.198	0.188	0.191	4.11
87) sec-BUTYLBEN	1.490	1.526	1.302	1.406	1.388	1.433	1.342	1.413	5.56
88) p-ISOPROPYLT	1.194	1.231	1.074	1.138	1.136	1.171	1.090	1.148	4.86
89) M-DICHLOROBE	0.621	0.634	0.603	0.594	0.585	0.614	0.608	0.608	2.69
90) P-DICHLOROBE	0.638	0.666	0.604	0.617	0.608	0.656	0.642	0.633	3.79
91) n-BUTYLBENZE	0.662	0.682	0.590	0.629	0.620	0.640	0.568	0.627	6.26
92) O-DICHLOROBE	0.619	0.648	0.612	0.606	0.596	0.644	0.642	0.624	3.30
93) HEXACHLOROET	0.173	0.185	0.149	0.174	0.177	0.168	0.156	0.169	7.33
94) 1,2-DIBROMO-	0.074	0.079	0.076	0.077	0.075	0.079	0.073	0.076	3.26
95) NITROBENZENE	0.037	0.040	0.035	0.043	0.044	0.041	0.042	0.040	7.86
96) 1,2,4-TRICHL	0.471	0.504	0.447	0.478	0.479	0.497	0.464	0.477	4.02
97) HEXACHLOROBU	0.235	0.239	0.206	0.220	0.220	0.217	0.218	0.222	4.95
98) NAPHTHALENE	1.388	1.500	1.281	1.467	1.448	1.547	1.346	1.425	6.49
99) 1,2,3-TRICHL	0.455	0.491	0.438	0.471	0.470	0.485	0.441	0.465	4.41

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1B2336.M Thu Dec 30 15:11:50 2010 MS1B

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Dec 22 16:55:19 2010
Response via : Initial Calibration
Total Cpnds : 20

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	tert butyl alcohol-d9	65	7.37	1.000	A	1	A	B
2	I	pentafluorobenzene	168	10.05	1.000	A	2	A	L
3		Freon 142B	65	3.90	0.388	A	3	A	B
4		methyl acrylate	85	9.48	0.943	A	2	A	B
5		1-Chlorobutane	56	10.26	1.021	A	3	A	B
6	S	dibromofluoromethane (s)	113	10.12	1.006	A	2	A	B
7	S	1,2-dichloroethane-d4 (s)	65	10.65	1.059	A	2	A	B
8	I	1,4-difluorobenzene	114	11.23	1.000	A	2	A	B
9		n-butyl alcohol	56	11.43	1.018	A	2	A	B
10		Ethyl Acrylate	55	11.64	1.037	A	3	A	B
11		2-nitropropane	46	12.73	1.134	L	3	A	B
12		cis-1,3-dichloropropene	75	13.04	1.161	A	2	A	B
13	S	toluene-d8 (s)	98	13.41	1.194	A	2	A	B
14		trans-1,3-dichloropropene	75	13.80	1.230	A	2	A	B
15	I	chlorobenzene-d5	117	15.44	1.000	A	2	A	B
16		cyclohexanone	55	16.89	1.094	A	2	A	B
17	I	1,4-dichlorobenzene-d4	152	18.21	1.000	A	2	A	B
18	S	4-bromofluorobenzene (s)	95	16.93	0.930	A	2	A	B
19		Vinyl toluene	118	18.49	1.015	A	3	A	B
20		Bis(chloromethyl)ether	79	0.00	0.000	A	3	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

MX4516B.M Thu Dec 30 13:04:33 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108365T.D Vial: 21
Acq On : 26 Oct 2010 10:24 pm Operator: JUNTAEP
Sample : ja58900-1T Inst : MSX
Misc : MS3577,vx4579,9.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:13 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	43962	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	165006	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	213048	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	186621	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	63217	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	64839	45.98	ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 91.96%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	71622	46.09	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 92.18%			
11) toluene-d8 (s)	13.40	98	251030	54.05	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 108.10%			
16) 4-bromofluorobenzene (s)	16.92	95	83717	67.45	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 134.90%			

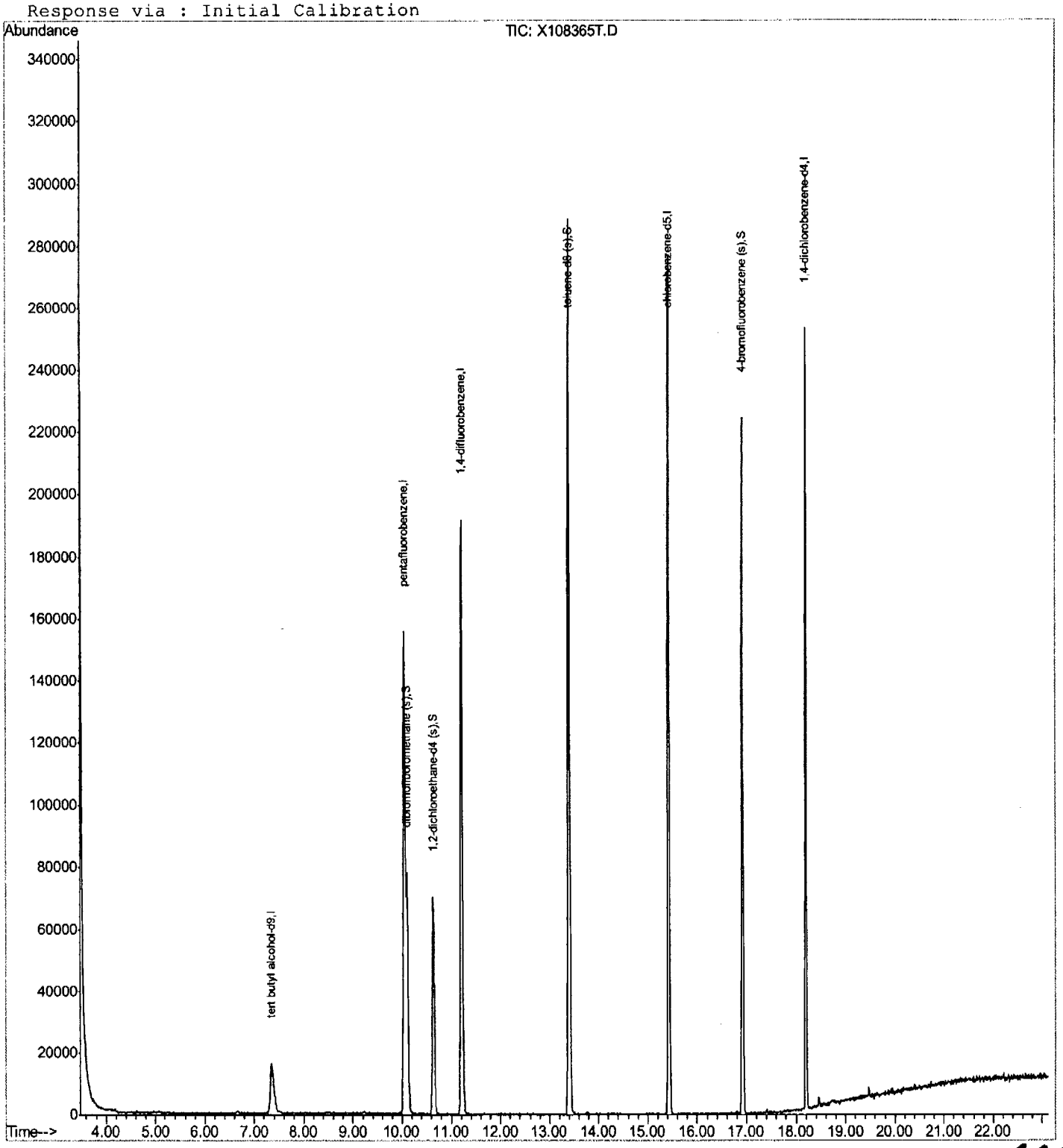
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108365T.D Vial: 21
Acq On : 26 Oct 2010 10:24 pm Operator: JUNTAEP
Sample : ja58900-1T Inst : MSX
Misc : MS3577,vx4579,9.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108366T.D Vial: 22
Acq On : 26 Oct 2010 10:53 pm Operator: JUNTAEP
Sample : ja58900-2T Inst : MSX
Misc : MS3577,vx4579,10.3,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:14 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	51567	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	171124	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	229678	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	226927	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	106466	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	71051	48.58	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 97.16%			
6) 1,2-dichloroethane-d4 (s)	10.64	65	84959	52.72	ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 105.44%			
11) toluene-d8 (s)	13.40	98	272098	54.34	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 108.68%			
16) 4-bromofluorobenzene (s)	16.92	95	119119	56.98	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 113.96%			

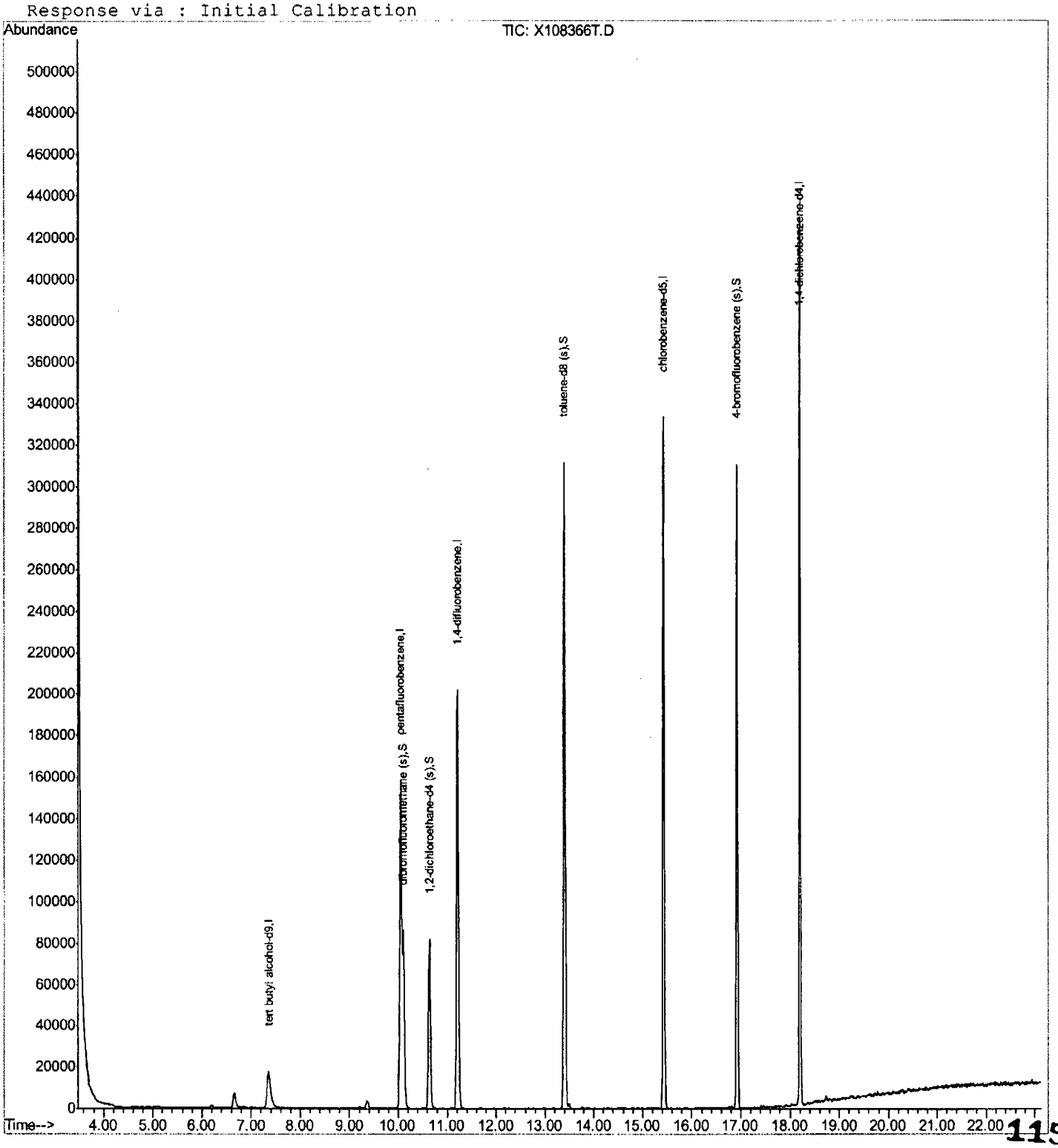
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108366T.D Vial: 22
Acq On : 26 Oct 2010 10:53 pm Operator: JUNTAEP
Sample : ja58900-2T Inst : MSX
Misc : MS3577,vx4579,10.3,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108352T.D Vial: 8
Acq On : 26 Oct 2010 3:39 pm Operator: JUNTAEP
Sample : ja58900-3T Inst : MSX
Misc : MS3577,vx4579,10.8,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:58 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	63733	500.00 ug/L	-0.02
2) pentafluorobenzene	10.05	168	146489	50.00 ug/L	0.00
7) 1,4-difluorobenzene	11.21	114	193790	50.00 ug/L	-0.01
13) chlorobenzene-d5	15.43	117	161042	50.00 ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	47991	50.00 ug/L	0.00

System Monitoring Compounds					
5) dibromofluoromethane (s)	10.11	113	61711	49.29 ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 98.58%		
6) 1,2-dichloroethane-d4 (s)	10.63	65	70080	50.80 ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 101.60%		
11) toluene-d8 (s)	13.40	98	223110	52.81 ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 105.62%		
16) 4-bromofluorobenzene (s)	16.92	95	69239	73.48 ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 146.96%#		

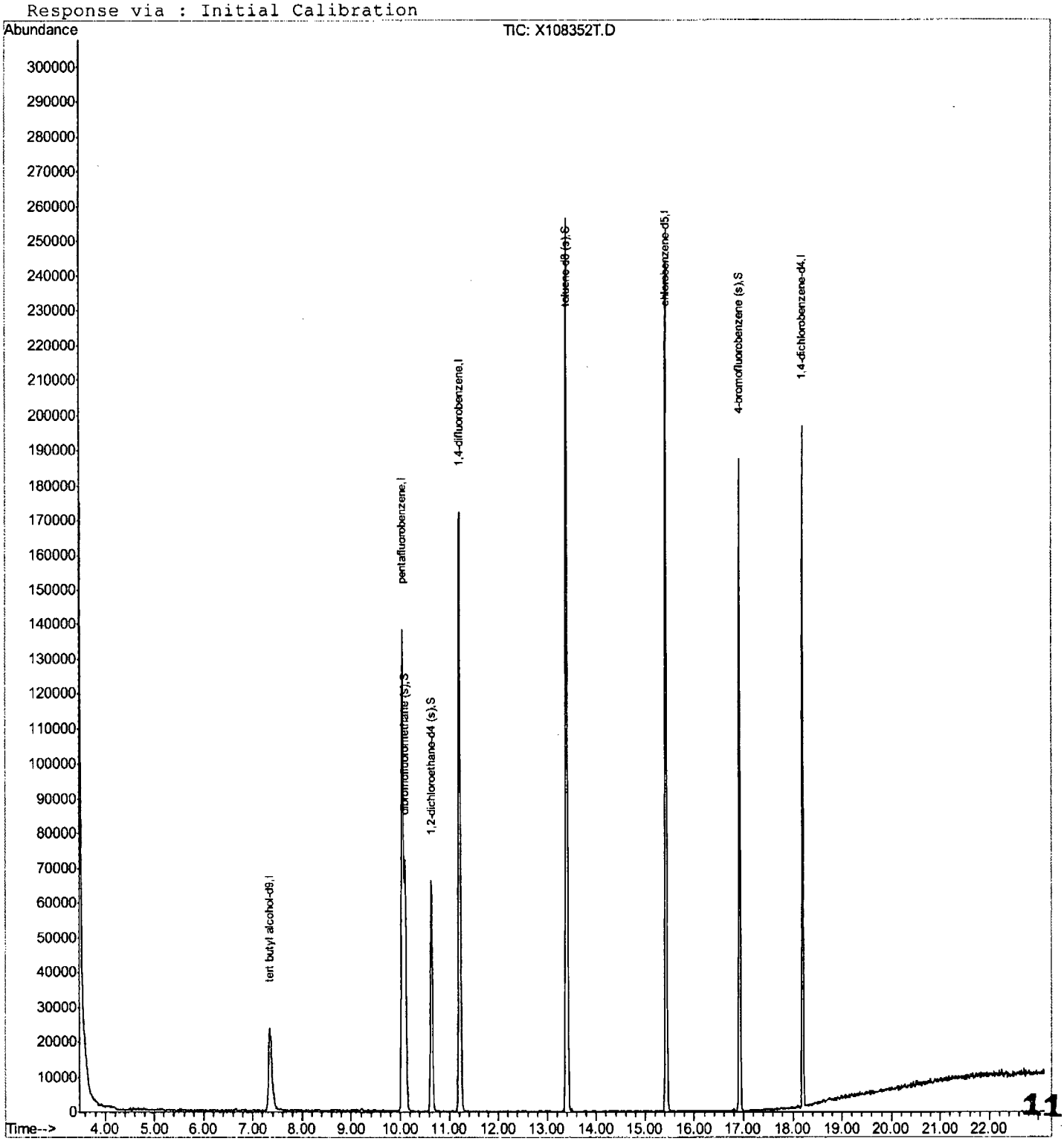
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108352T.D Vial: 8
Acq On : 26 Oct 2010 3:39 pm Operator: JUNTAEP
Sample : ja58900-3T Inst : MSX
Misc : MS3577,vx4579,10.8,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:20 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108367T.D Vial: 23
Acq On : 26 Oct 2010 11:22 pm Operator: JUNTAEP
Sample : ja58900-4T Inst : MSX
Misc : MS3577,vx4579,9.3,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:16 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	68143	500.00	ug/L	0.00
2) pentafluorobenzene	10.05	168	175983	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	231702	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	225367	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	106996	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	69567	46.25	ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 92.50%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	79033	47.69	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 95.38%			
11) toluene-d8 (s)	13.40	98	273539	54.15	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 108.30%			
16) 4-bromofluorobenzene (s)	16.92	95	117271	55.82	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 111.64%			

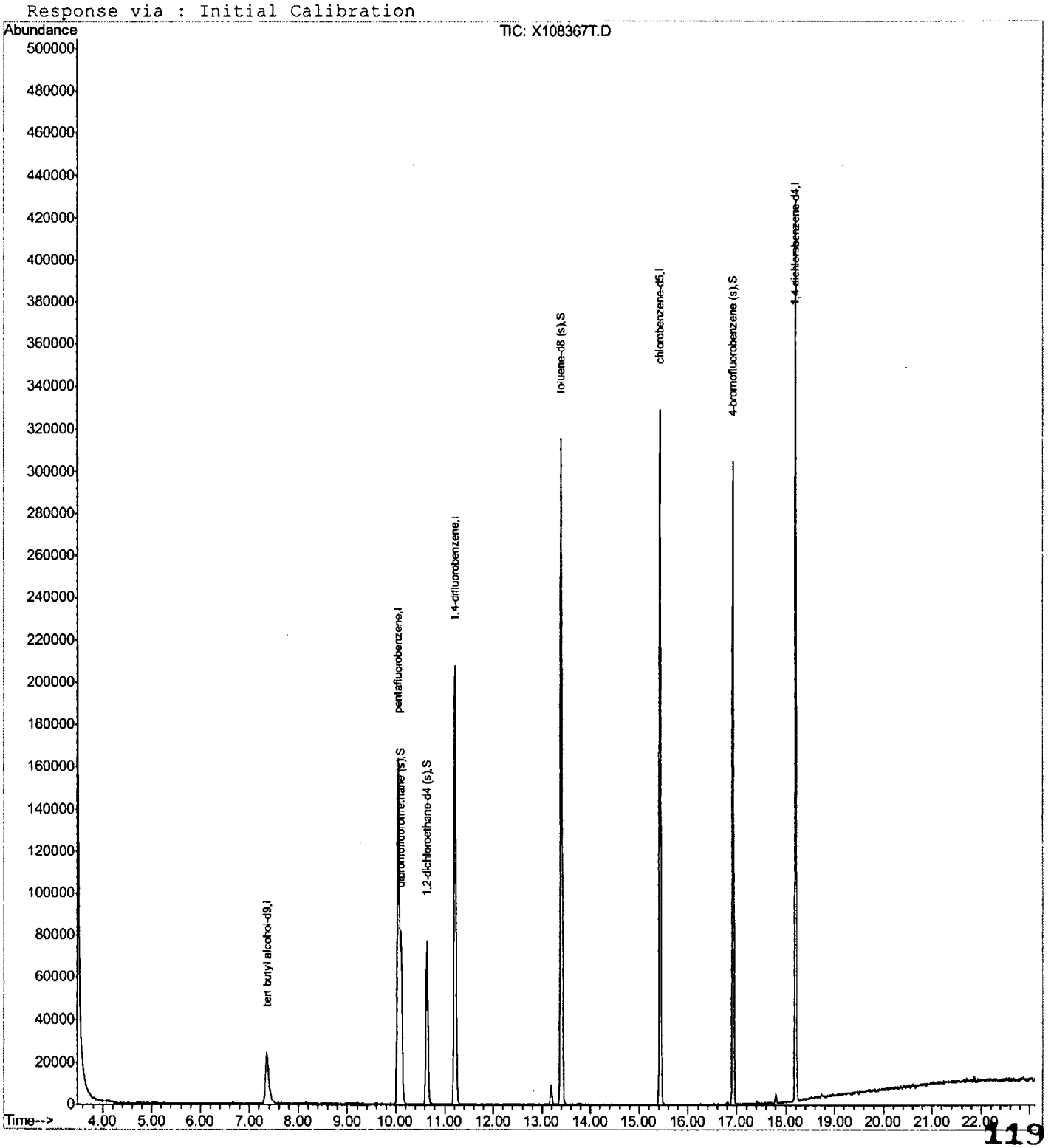
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108367T.D Vial: 23
Acq On : 26 Oct 2010 11:22 pm Operator: JUNTAEP
Sample : ja58900-4T Inst : MSX
Misc : MS3577,vx4579,9.3,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108527T.D
Acq On : 21 Oct 2010 8:11 pm
Operator : JIANHUAL
Sample : JA58900-5T EB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 21 10:12:19 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.47	65	89018	500.00 ug/L	0.02
2) pentafluorobenzene	9.67	168	263662	50.00 ug/L	0.00
7) 1,4-difluorobenzene	10.62	114	421554	50.00 ug/L	0.00
13) chlorobenzene-d5	14.03	117	421822	50.00 ug/L	0.00
16) 1,4-dichlorobenzene-d4	16.66	152	208907	50.00 ug/L	0.01

System Monitoring Compounds					
5) dibromofluoromethane (s)	9.73	113	151204	49.96 ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 99.92%		
6) 1,2-dichloroethane-d4 (s)	10.16	65	141481	46.33 ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 92.66%		
11) toluene-d8 (s)	12.35	98	564675	52.07 ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 104.14%		
15) 4-bromofluorobenzene (s)	15.35	95	209378	43.82 ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 87.64%		

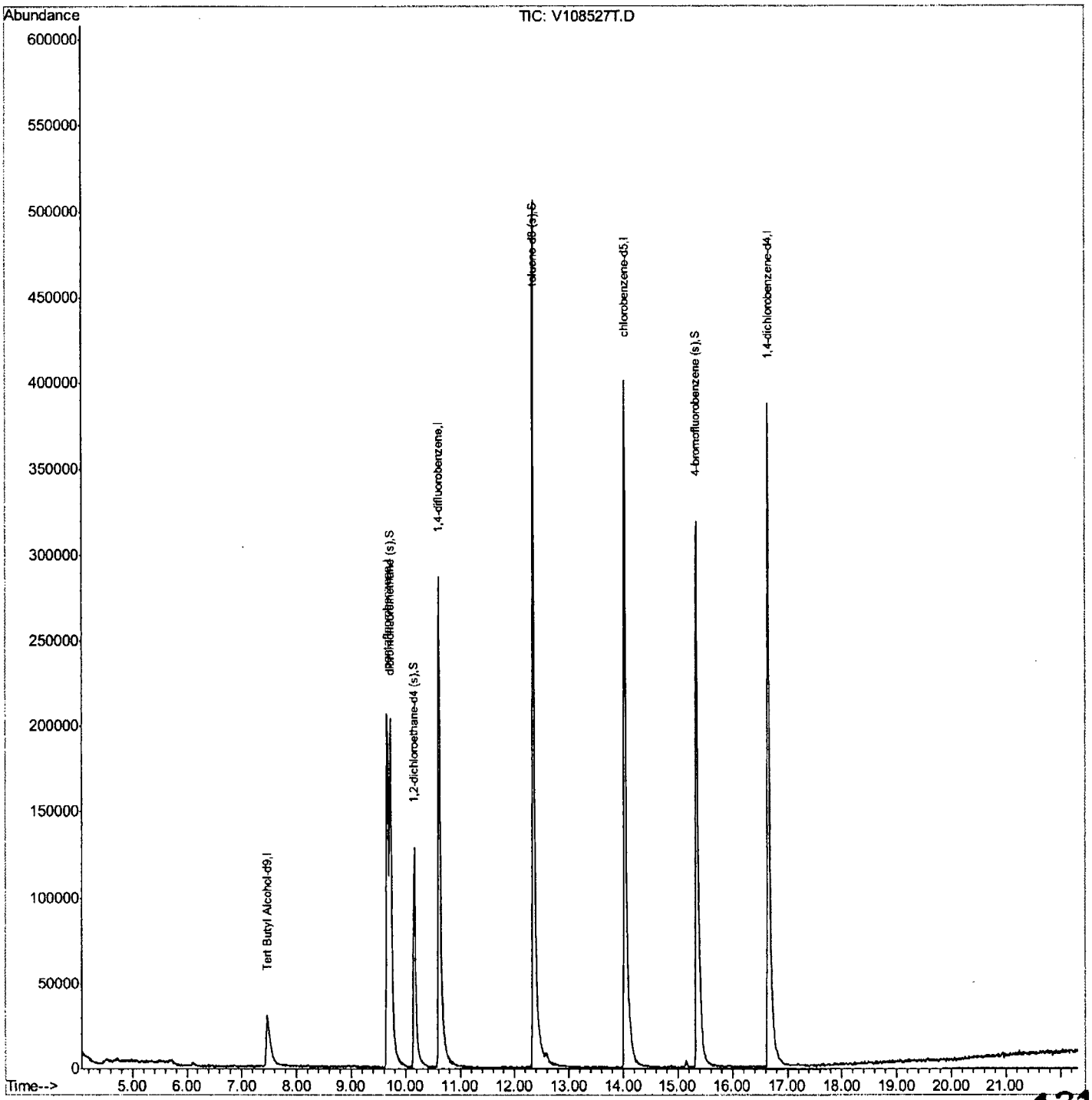
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108527T.D
Acq On : 21 Oct 2010 8:11 pm
Operator : JIANHUAL
Sample : JA58900-5T EB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 21 10:12:19 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108526T.D
Acq On : 21 Oct 2010 7:40 pm
Operator : JIANHUAL
Sample : JA58900-6T FB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 10:12:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	104742	500.00 ug/L	0.01
2) pentafluorobenzene	9.67	168	273199	50.00 ug/L	0.00
7) 1,4-difluorobenzene	10.62	114	414381	50.00 ug/L	0.00
13) chlorobenzene-d5	14.03	117	431469	50.00 ug/L	0.00
16) 1,4-dichlorobenzene-d4	16.66	152	216935	50.00 ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	9.73	113	152756	48.71 ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 97.42%		
6) 1,2-dichloroethane-d4 (s)	10.16	65	150599	47.59 ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 95.18%		
11) toluene-d8 (s)	12.35	98	577588	54.19 ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 108.38%		
15) 4-bromofluorobenzene (s)	15.35	95	220509	45.12 ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 90.24%		

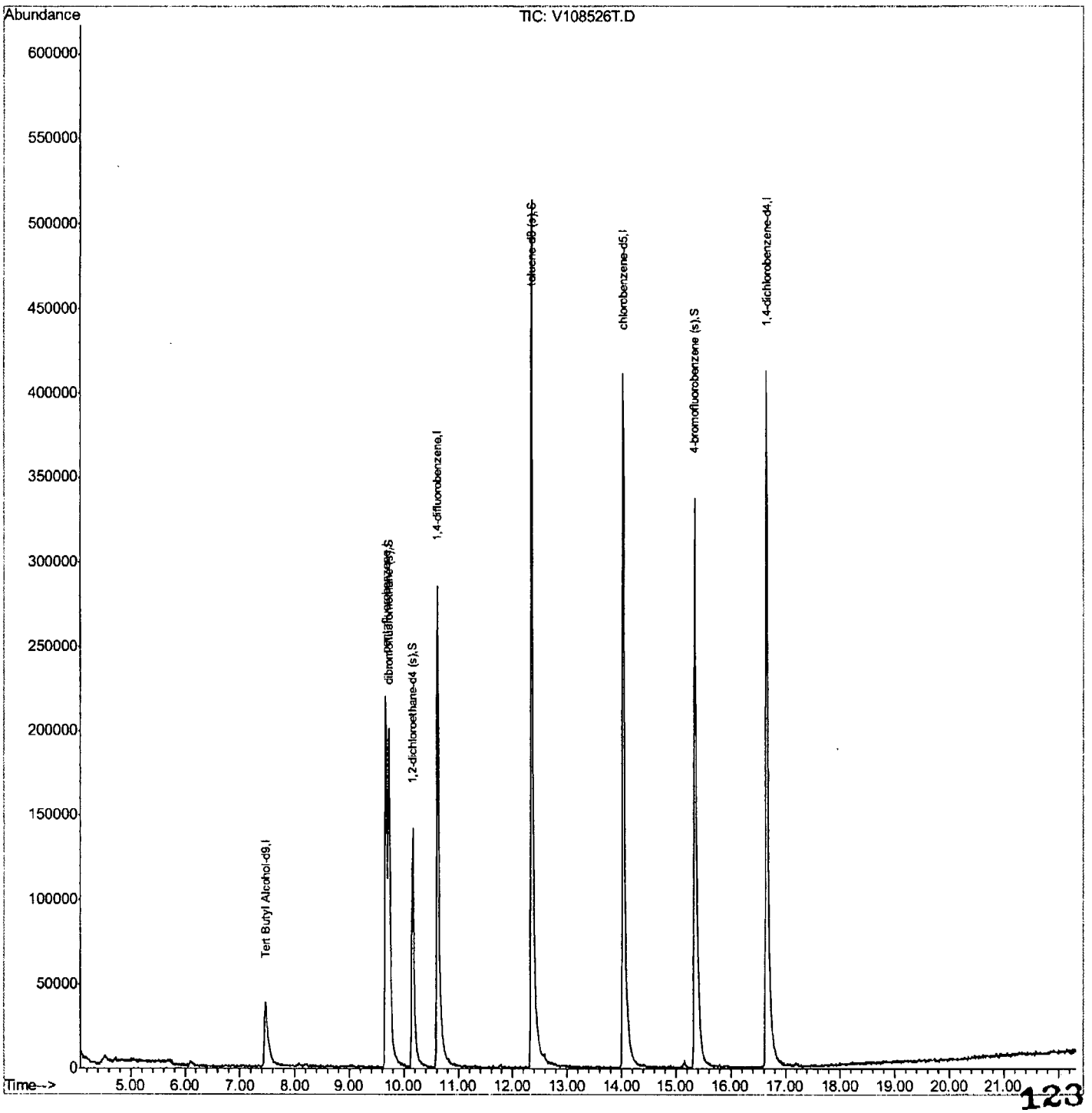
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108526T.D
Acq On : 21 Oct 2010 7:40 pm
Operator : JIANHUAL
Sample : JA58900-6T FB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 21 10:12:05 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108396T.D Vial: 7
Acq On : 27 Oct 2010 5:19 pm Operator: JUNTAEP
Sample : ja58900-7T Inst : MSX
Misc : MS3577,vx4581,16.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:17 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.34	65	67276	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	158662	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	223610	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	218315	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	105477	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	70006	51.63	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 103.26%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	81456	54.52	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 109.04%			
11) toluene-d8 (s)	13.40	98	268051	54.99	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 109.98%			
16) 4-bromofluorobenzene (s)	16.92	95	117158	56.57	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 113.14%			

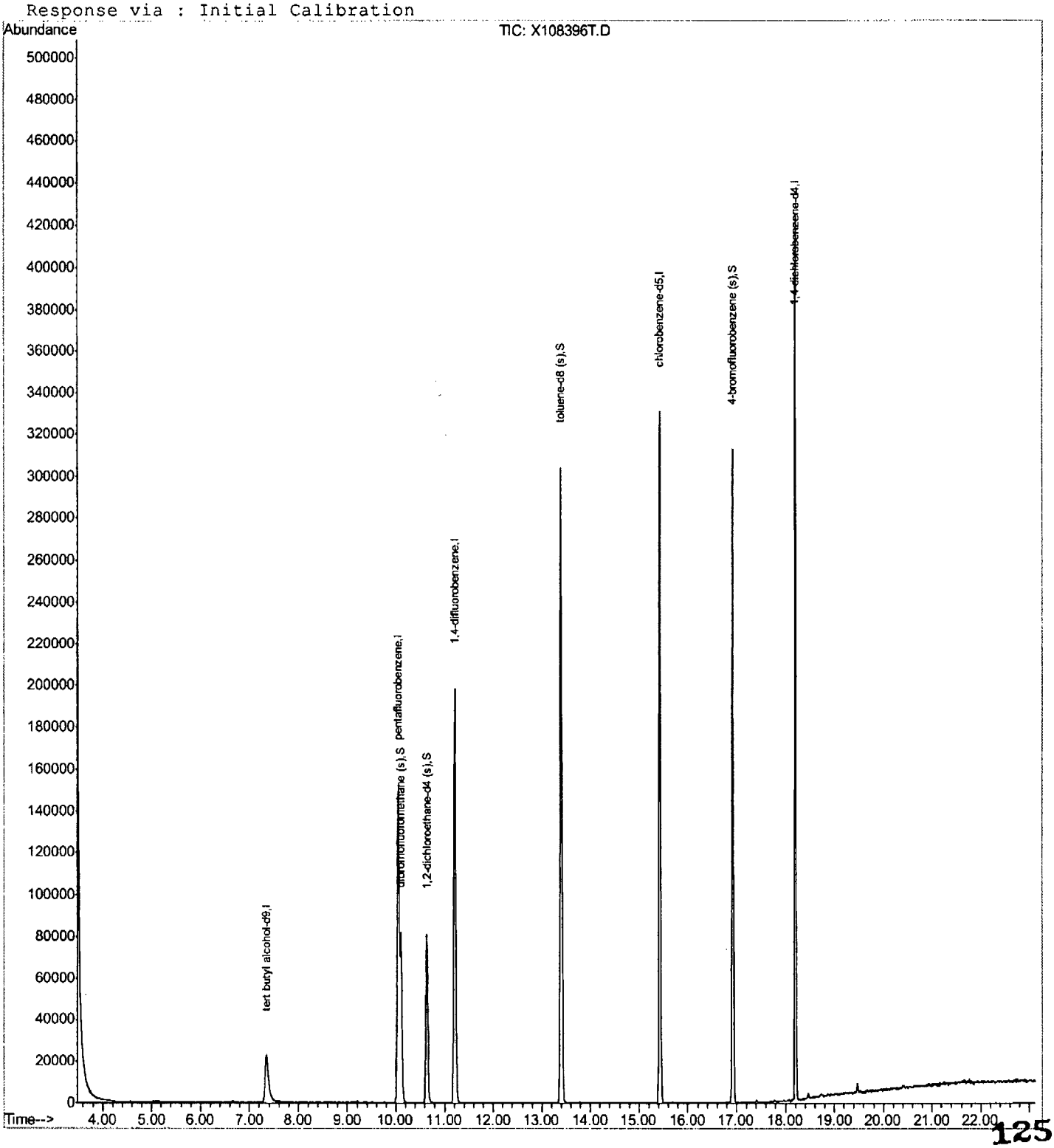
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108396T.D Vial: 7
Acq On : 27 Oct 2010 5:19 pm Operator: JUNTAEP
Sample : ja58900-7T Inst : MSX
Misc : MS3577,vx4581,16.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:22 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108359T.D Vial: 15
Acq On : 26 Oct 2010 7:28 pm Operator: JUNTAEP
Sample : ja58900-8T Inst : MSX
Misc : MS3577,vx4579,10.4,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:00 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	69797	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	173994	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	228098	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	216561	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	90967	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	69132	46.49	ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 92.98%			
6) 1,2-dichloroethane-d4 (s)	10.64	65	79685	48.63	ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 97.26%			
11) toluene-d8 (s)	13.40	98	271187	54.54	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 109.08%			
16) 4-bromofluorobenzene (s)	16.92	95	109514	61.32	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 122.64%			

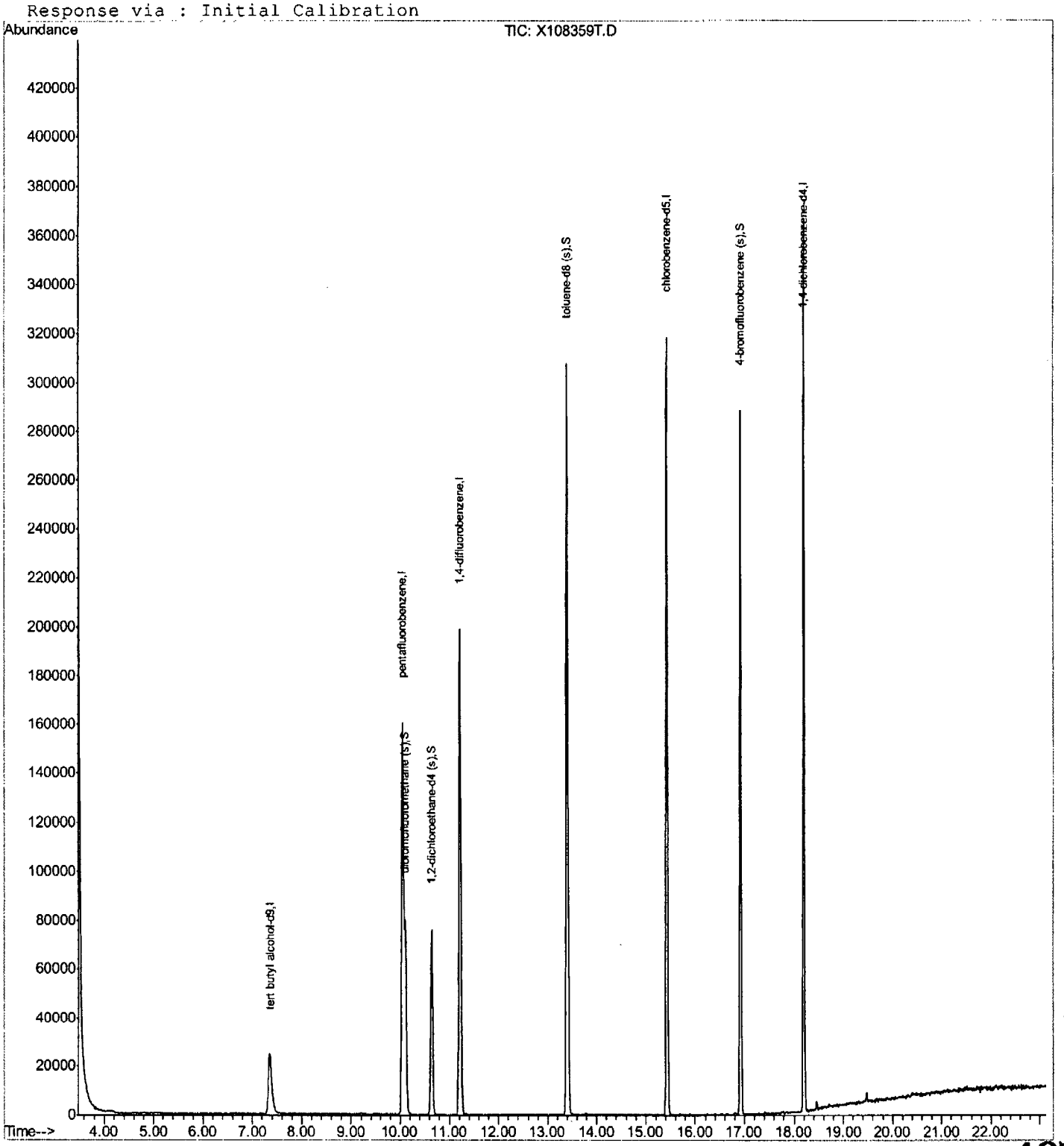
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108359T.D MX4516B.M Tue Dec 21 11:24:39 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108359T.D Vial: 15
Acq On : 26 Oct 2010 7:28 pm Operator: JUNTAEP
Sample : ja58900-8T Inst : MSX
Misc : MS3577,vx4579,10.4,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108360T.D Vial: 16
Acq On : 26 Oct 2010 7:57 pm Operator: JUNTAEP
Sample : ja58900-9T Inst : MSX
Misc : MS3577,vx4579,12.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:06 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	59976	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	169039	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	221638	50.00	ug/L	0.00
13) chlorobenzene-d5	15.43	117	202132	50.00	ug/L	0.00
15) 1,4-dichlorobenzene-d4	18.20	152	77656	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	65313	45.21	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 90.42%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	74178	46.60	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 93.20%			
11) toluene-d8 (s)	13.40	98	260785	53.97	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 107.94%			
16) 4-bromofluorobenzene (s)	16.92	95	96595	63.35	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 126.70%			

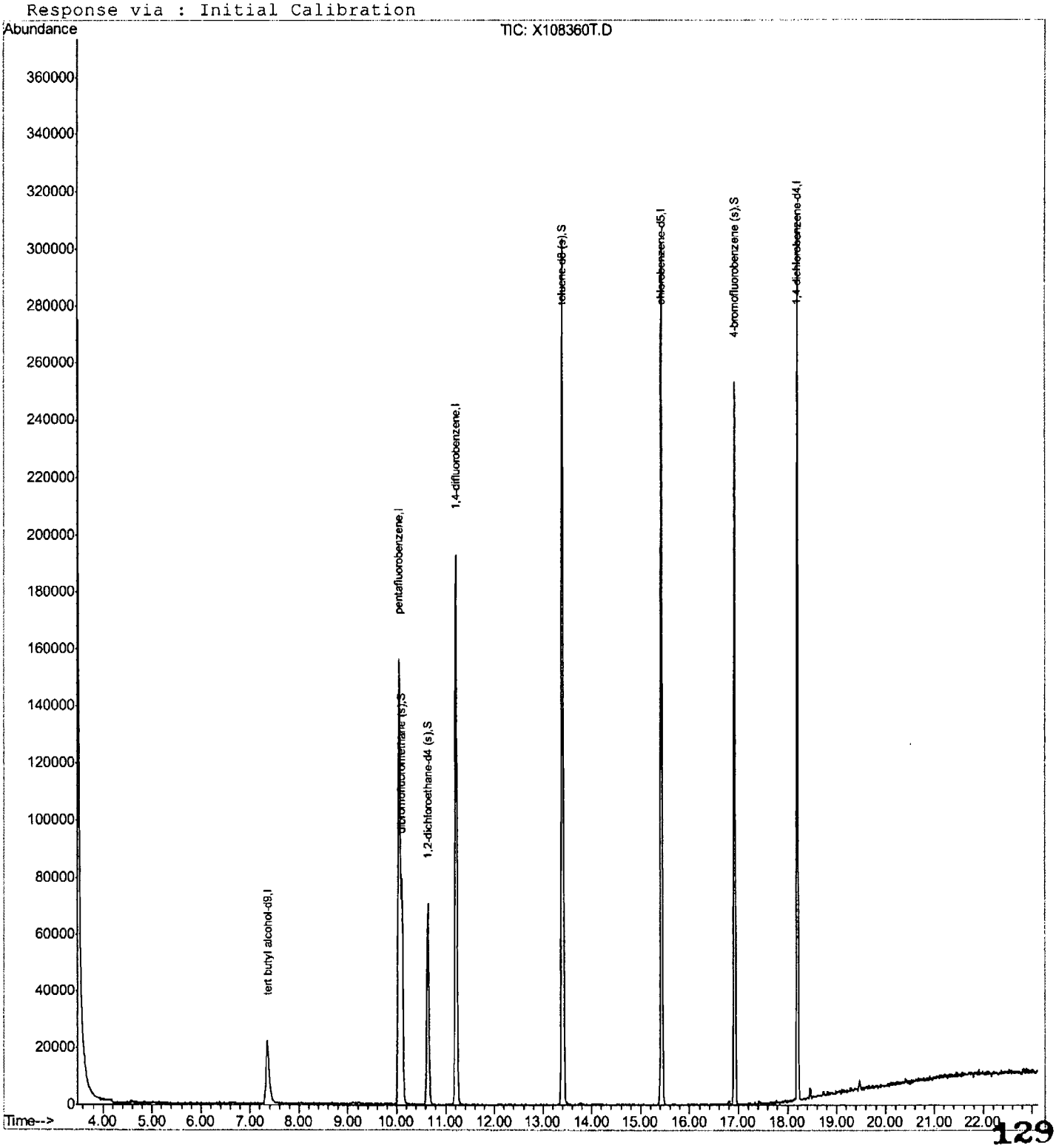
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108360T.D Vial: 16
Acq On : 26 Oct 2010 7:57 pm Operator: JUNTAEP
Sample : ja58900-9T Inst : MSX
Misc : MS3577,vx4579,12.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108361T.D Vial: 17
Acq On : 26 Oct 2010 8:27 pm Operator: JUNTAEP
Sample : ja58900-10T Inst : MSX
Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:07 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	64144	500.00 ug/L	-0.02
2) pentafluorobenzene	10.05	168	170368	50.00 ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	229099	50.00 ug/L	-0.01
13) chlorobenzene-d5	15.43	117	222491	50.00 ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	108039	50.00 ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	68030	46.72 ug/L	-0.02
Spiked Amount 50.000	Range 67 - 127		Recovery = 93.44%		
6) 1,2-dichloroethane-d4 (s)	10.64	65	78944	49.21 ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 98.42%		
11) toluene-d8 (s)	13.40	98	272233	54.51 ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 109.02%		
16) 4-bromofluorobenzene (s)	16.92	95	117220	55.26 ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 110.52%		

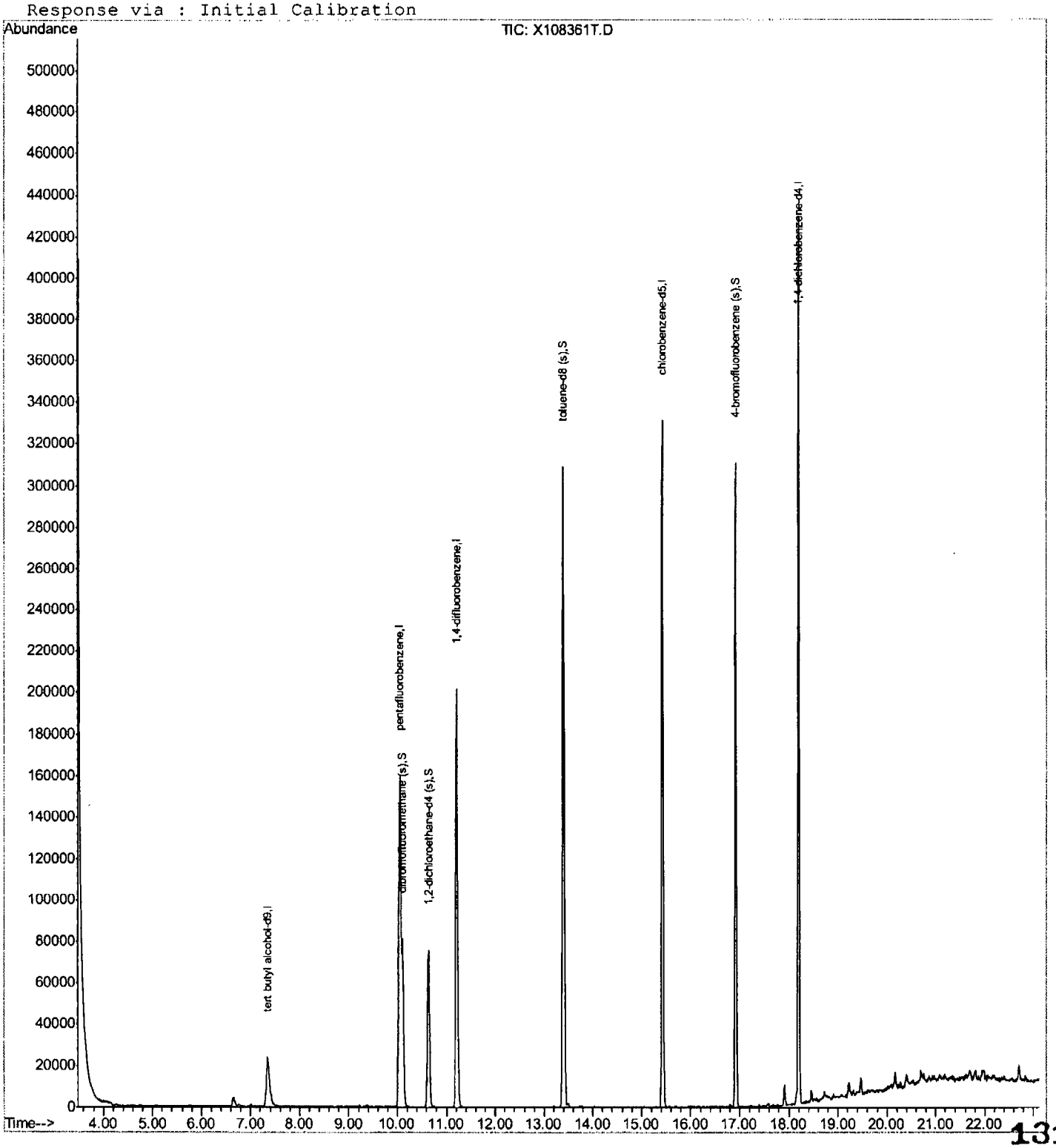
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108361T.D MX4516B.M Tue Dec 21 11:24:42 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108361T.D Vial: 17
Acq On : 26 Oct 2010 8:27 pm Operator: JUNTAEP
Sample : ja58900-10T Inst : MSX
Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108362T.D Vial: 18
Acq On : 26 Oct 2010 8:56 pm Operator: JUNTAEP
Sample : ja58900-11T Inst : MSX
Misc : MS3577,vx4579,9.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:09 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	60806	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	164792	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	217940	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	215873	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	108138	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.10	113	66160	46.97	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 127		Recovery = 93.94%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	77248	49.78	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 99.56%			
11) toluene-d8 (s)	13.40	98	259272	54.57	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 109.14%			
16) 4-bromofluorobenzene (s)	16.92	95	115233	54.27	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 108.54%			

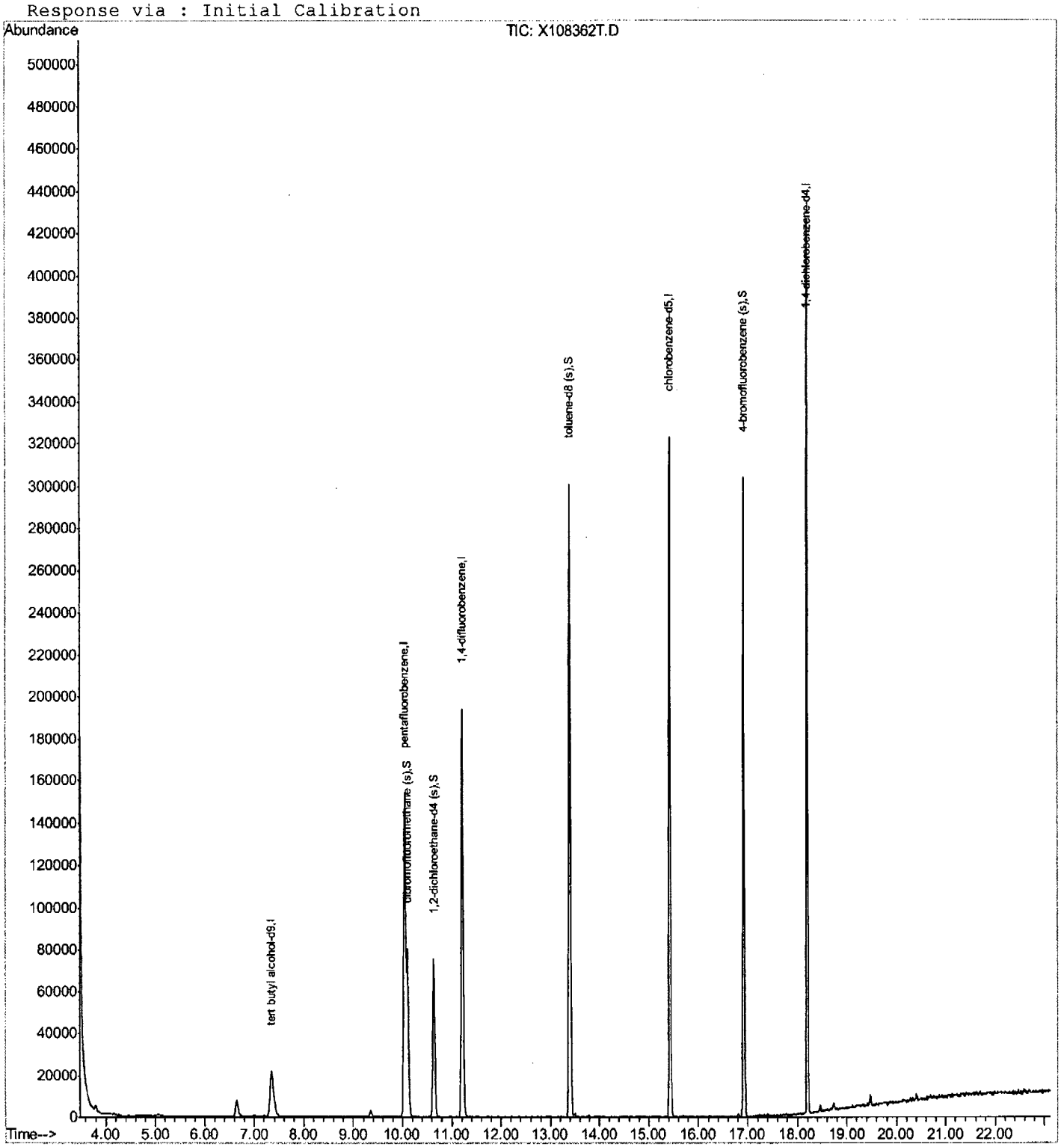
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108362T.D Vial: 18
Acq On : 26 Oct 2010 8:56 pm Operator: JUNTAEP
Sample : ja58900-11T Inst : MSX
Misc : MS3577,vx4579,9.2,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108363T.D Vial: 19
Acq On : 26 Oct 2010 9:25 pm Operator: JUNTAEP
Sample : ja58900-12T Inst : MSX
Misc : MS3577,vx4579,9.9,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:10 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	54149	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	174820	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	234713	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	228959	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	112666	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	70614	47.26	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 94.52%			
6) 1,2-dichloroethane-d4 (s)	10.64	65	80539	48.92	ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 97.84%			
11) toluene-d8 (s)	13.40	98	275279	53.80	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 107.60%			
16) 4-bromofluorobenzene (s)	16.92	95	121540	54.94	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 109.88%			

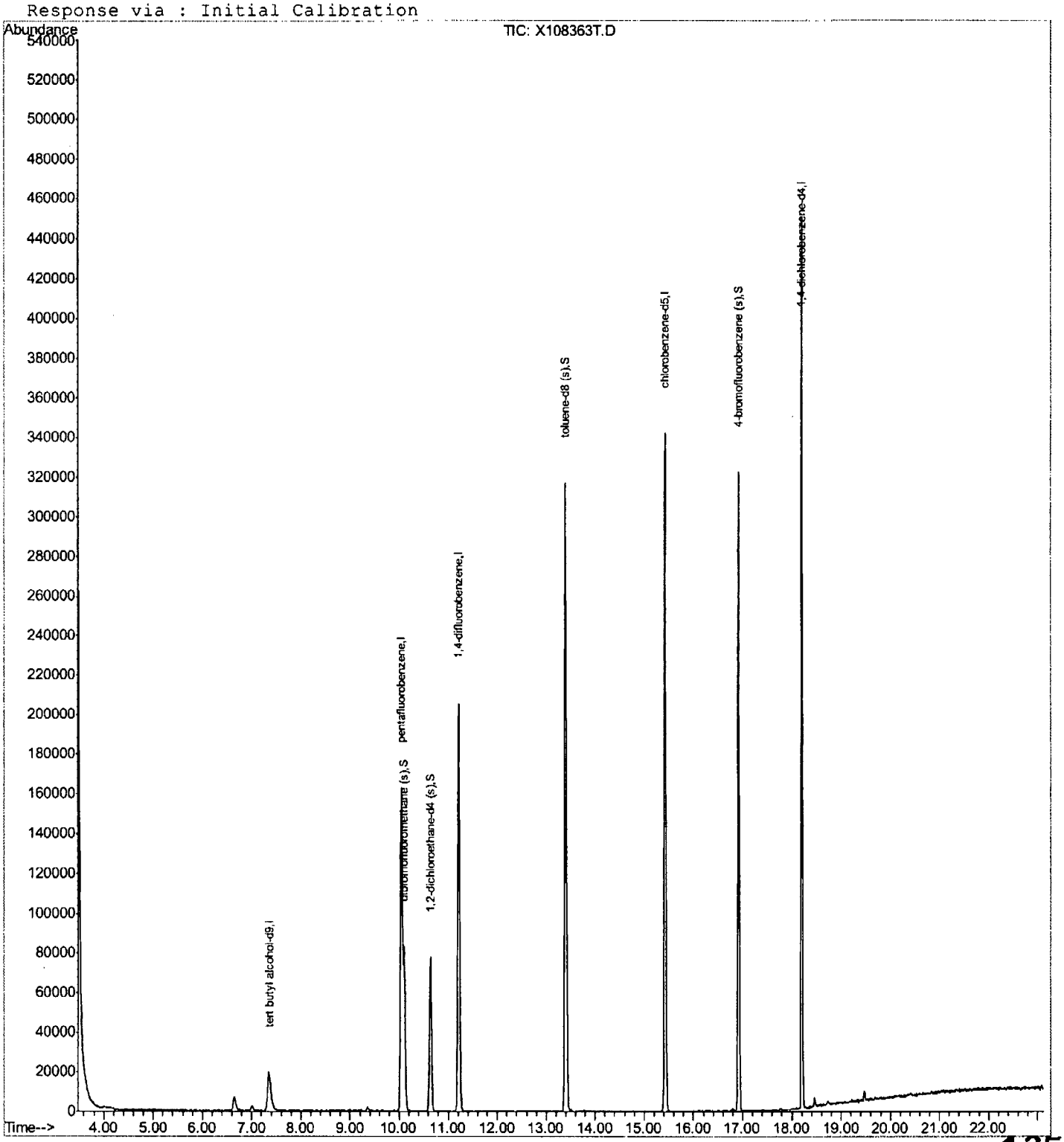
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108363T.D Vial: 19
Acq On : 26 Oct 2010 9:25 pm Operator: JUNTAEP
Sample : ja58900-12T Inst : MSX
Misc : MS3577,vx4579,9.9,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108351T.D Vial: 7
Acq On : 26 Oct 2010 3:10 pm Operator: JUNTAEP
Sample : ja58900-13T Inst : MSX
Misc : MS3577,vx4579,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:16:56 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.35	65	53738	500.00	ug/L	-0.02
2) pentafluorobenzene	10.05	168	150489	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	201696	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	195753	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	96193	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	60072	46.71	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 93.42%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	70063	49.44	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 98.88%			
11) toluene-d8 (s)	13.40	98	240300	54.65	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 109.30%			
16) 4-bromofluorobenzene (s)	16.92	95	104318	55.23	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 110.46%			

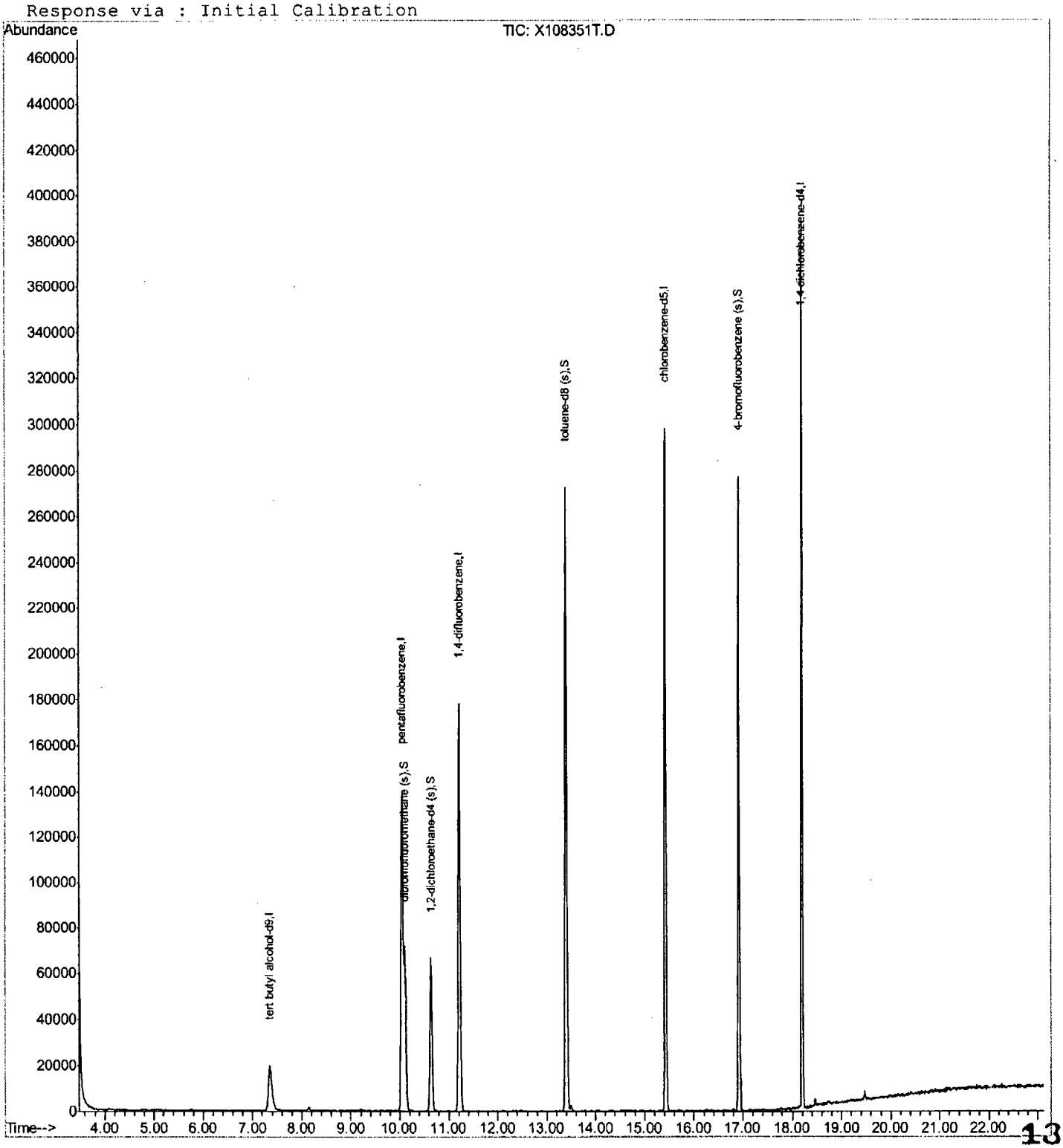
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108351T.D Vial: 7
Acq On : 26 Oct 2010 3:10 pm Operator: JUNTAEP
Sample : ja58900-13T Inst : MSX
Misc : MS3577,vx4579,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:20 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108364T.D Vial: 20
Acq On : 26 Oct 2010 9:55 pm Operator: JUNTAEP
Sample : ja58900-14T Inst : MSX
Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:17:11 2010 Quant Results File: MX4516B.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration
DataAcq Meth : MX4516

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.36	65	76238	500.00	ug/L	-0.01
2) pentafluorobenzene	10.05	168	173767	50.00	ug/L	0.00
7) 1,4-difluorobenzene	11.22	114	232904	50.00	ug/L	-0.01
13) chlorobenzene-d5	15.43	117	226611	50.00	ug/L	-0.01
15) 1,4-dichlorobenzene-d4	18.20	152	106926	50.00	ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	10.11	113	69840	47.03	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 127		Recovery = 94.06%			
6) 1,2-dichloroethane-d4 (s)	10.63	65	82733	50.56	ug/L	-0.01
Spiked Amount 50.000	Range 65 - 132		Recovery = 101.12%			
11) toluene-d8 (s)	13.40	98	275552	54.27	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 108.54%			
16) 4-bromofluorobenzene (s)	16.92	95	117801	56.11	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 112.22%			

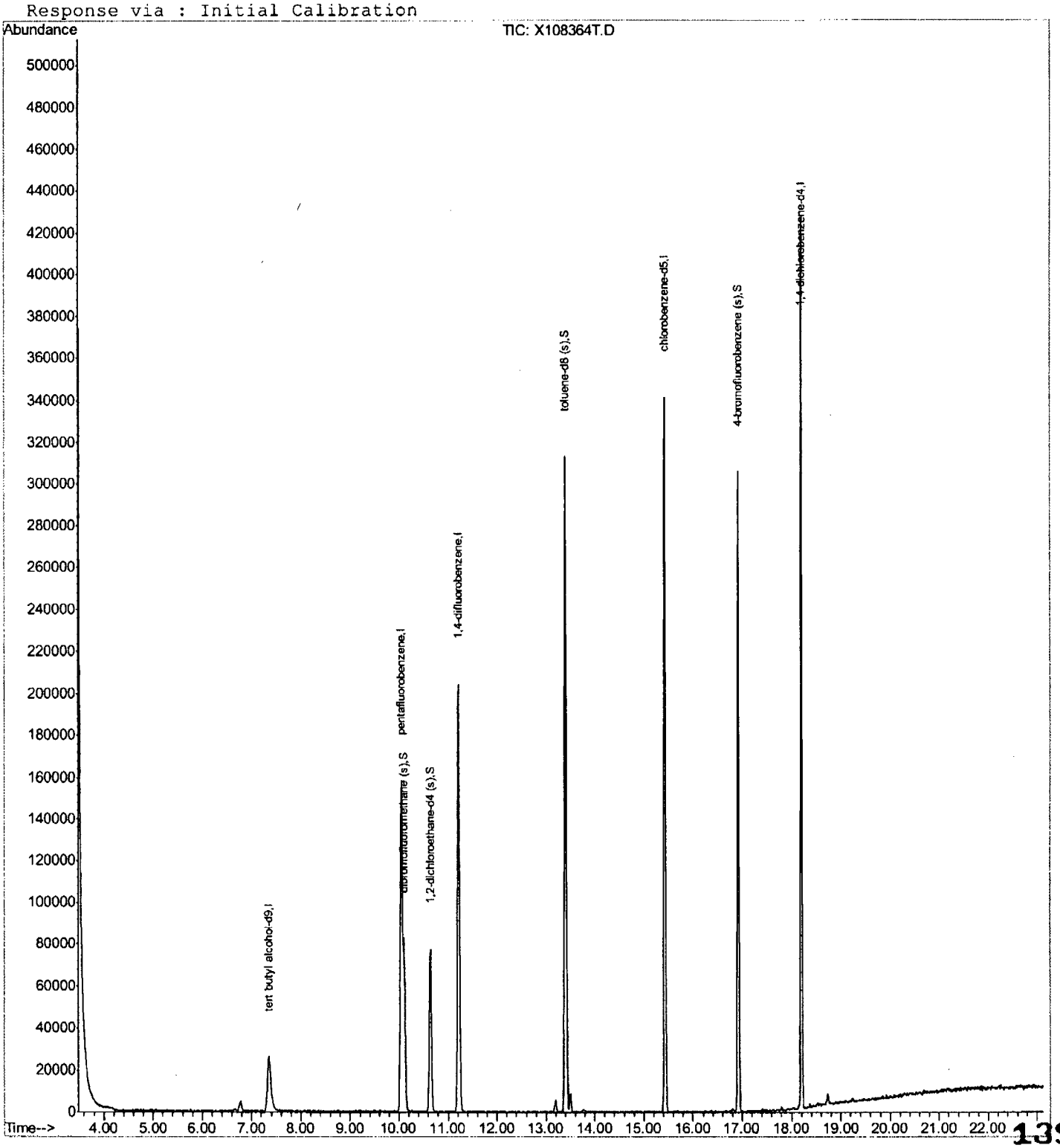
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
X108364T.D MX4516B.M Tue Dec 21 11:24:47 2010 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\RETRIEVE\X108364T.D Vial: 20
Acq On : 26 Oct 2010 9:55 pm Operator: JUNTAEP
Sample : ja58900-14T Inst : MSX
Misc : MS3577,vx4579,9.7,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Dec 21 11:21 2010 Quant Results File: MX4516B.RES

Method : C:\MSDCHEM\1\METHODS\MX4516B.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Dec 21 11:12:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108525T.D
Acq On : 21 Oct 2010 7:09 pm
Operator : JIANHUAL
Sample : JA58900-15T TB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 10:11:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	7.46	65	110240	500.00 ug/L	0.01
2) pentafluorobenzene	9.67	168	268788	50.00 ug/L	0.00
7) 1,4-difluorobenzene	10.62	114	422095	50.00 ug/L	0.00
13) chlorobenzene-d5	14.03	117	434357	50.00 ug/L	0.00
16) 1,4-dichlorobenzene-d4	16.66	152	224565	50.00 ug/L	0.00

System Monitoring Compounds

5) dibromofluoromethane (s)	9.73	113	154508	50.08 ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 100.16%		
6) 1,2-dichloroethane-d4 (s)	10.16	65	148530	47.71 ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 95.42%		
11) toluene-d8 (s)	12.35	98	580762	53.49 ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 106.98%		
15) 4-bromofluorobenzene (s)	15.35	95	223851	45.50 ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 91.00%		

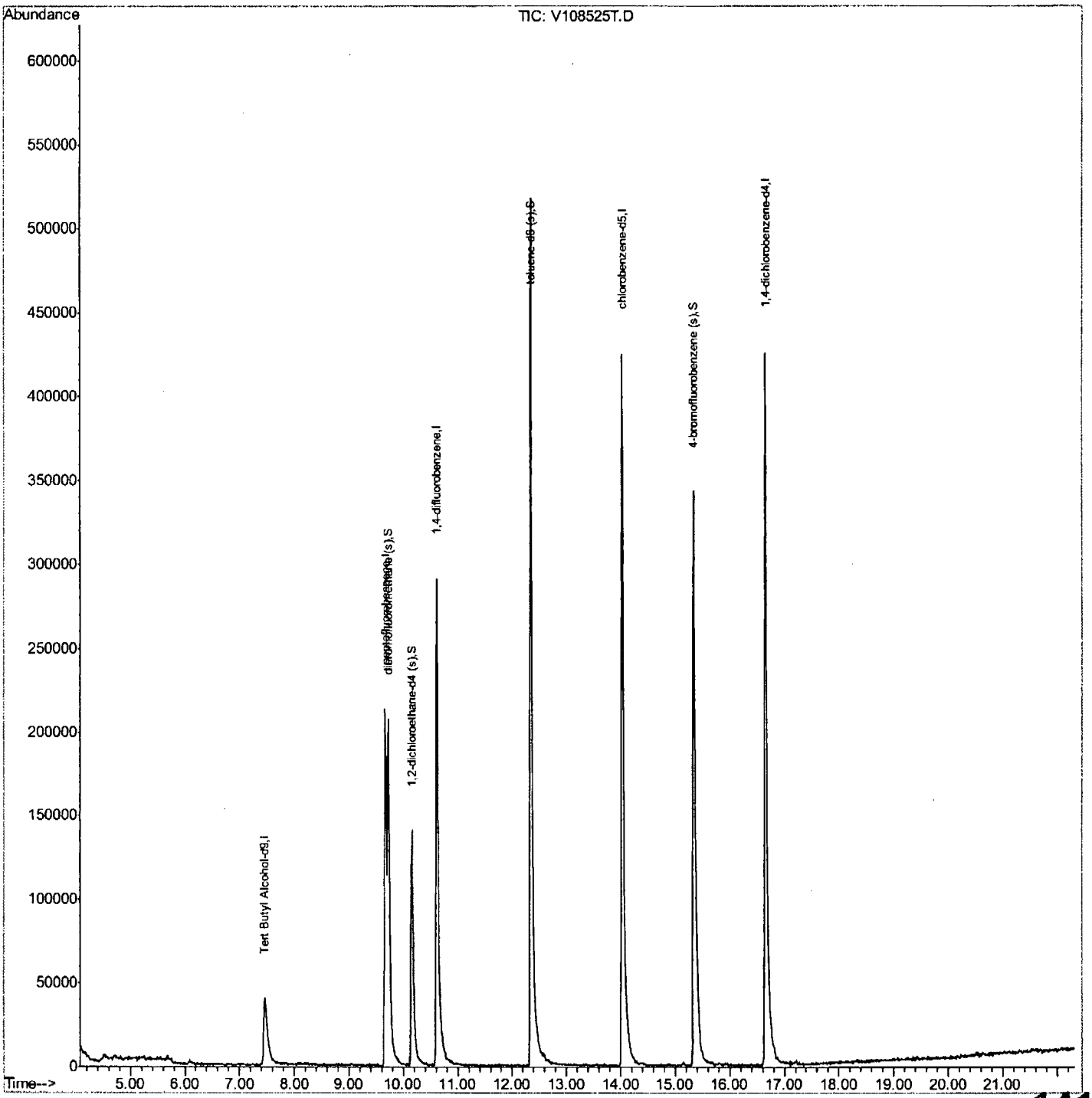
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\RETRIEVE\
Data File : V108525T.D
Acq On : 21 Oct 2010 7:09 pm
Operator : JIANHUAL
Sample : JA58900-15T TB
Misc : MS3738,VV4578,5.0,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 10:11:51 2010
Quant Method : C:\MSDCHEM\1\METHODS\MVS4452B.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Mon Dec 20 20:37:58 2010
Response via : Initial Calibration



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX4578

Print Analyst Name: AUSTIN PARK

Analyst Signature: JP

Date: 10/25/2010

Columns: ZB624 (60m x 0.18mm x 1.4um)

Method V8260

Initial Cal. Method MX4576

Standard Data

Lot #	Description	Conc.
[illegible]	ACROLEIN	100ppm
-39	ETHANOLAMIN	↓
-56	INTISUR	200/100ppm
-95	VINYL BROMIDE	100ppm
[illegible]		

Standard Data

Lot #	Description	Conc.
[illegible]	STD A	100ppm
-70	B	
-93	C	
-44	EXT A	
-42	C	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/26/10

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	X 108322	BFB				24							ok		2:10 AM
	108323	CC4576-56				25					✓	✓	ok	analysis STD A+B+C ACROLEIN #43.92↑ VINYL BROMIDE	
	108324	IB				26							clean up		
	108325	MB				27					✓	✓	ok		
	108326	BS				28					✓	✓	ok	analysis EXT A+C(STD C) #43↑ EXT ACROLEN VINYL BROMIDE	
	108327	JA59307-15MS	3790 TCLP+10	S L	16	29	5.2				✓	✓	not run	analysis STD A+B+C ACROLEIN VINYL BROMIDE	
	108328	JA59307-15MSD	↓	↓	15	30	5.1						↓	↓	
	108329	IB				31							clean up		
	108330	JA59307-15	3790 TCLP+10	S L	5	32	5.6				✓	✓	ok		
	108331	JA59192-2	3787 TCLP+10		3	33	4.8				✓	✓	AR	AR IX c/o 2	
	108332	JA59192-3			3	34	4.9				✓	✓	ok		
	108333	JA59192-5			3	35	4.9				✓	✓	ok		
	108334	JA59192-6			3	36	5.1				✓	✓	ok		
	108335	JA59192-9			3	37	4.9				✓	✓	ok		
	108336	JA59192-10	↓		3	38	4.8				✓	✓	ok		
	108337	JA59307-20	3790 TCLP+10		5	39	5.5				✓	✓	ok		
	108338	JA59307-19	↓	↓	5	40	5.4				✓	✓	ok		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX 4579

Print Analyst Name: AUSTIN PARKS

Analyst Signature: [illegible]

Date: 10/25/2010

Standard Data

Lot #	Description	Conc.
	RETER	70

Standard Data

Lot #	Description	Conc.
PAGE	235	

Columns: 28624 (6cm x 250µm x 1.4µm)

Method: V8260

Initial Cal. Method: MX 4516

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/26/10

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	X108334 39	7A59309-17	5970	S	5	41	5.6						ok		
	108338 40	7A59309-16			5	42	4.9						ok		
	108339 41	7A59309-13 15HS			5	43	5.0						NOT OK RAN		
	108340 42	7A59309-12 15HSL			5	44	5.1						ok		
	108341 43	~~7A59309-6~~ 15			5	45	~~5.2~~						NOT RAN	cleanup	
R	108342 44	~~7A59309-7~~			5 11	46	~~4.6~~ 9.6						ok	7A58750-13 CFS. CFL	10:40AM
	108343 45	7A59309-8			5	47	5.1						NOT RAN		

10/25/2010

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX 4580 79

Print Analyst Name: AUSTIN PARK

Analyst Signature: JTP

Date: 10/26/2010

Standard Data

Lot #	Description	Conc.
010-86-85	ACROLEIN	100ppm
-87	EFT-ACROLEIN	↓
-86	INT/SOR	200/2500 ppm
-85	VINYL BROMIDE	100ppm

Standard Data

Lot #	Description	Conc.
010-86-76	STD. A	100ppm
-76	B	
-93	C	
-44	EFT-A	
-92	C	

Columns: ZB624 (60m x 250µm x 1.4µm)

Method: V8260

Initial Cal. Method: MX4576

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 10/26/2010

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	x108347	BTB				1							OK		11:37 AM
	108348	CC4576-20				2							HG	10µl/50ml STD-AHBTC ACROLEIN VINYL BROMIDE 43.12.43.57.65.72.73.82	
	108347	CC4576-20				3							OK	94.101.106.132/33	
	108348	MB				4							OK		
	108349	BS				5							OK	25µl/50ml EFT-A+C/5ml 3 #431 EFT ACROLEIN VINYL BROMIDE	
	108350	MB				6							clean up		
	108351	JA58900-13	3549 APASL.BNZLCHL EPICH.VINYLBR	S B	1	7	5.0						OK		
	108352	JA58900-3		S 2	26	8	10.8						OK/AR	RAIX CFS CFI.	
	108353	JA58900-3MS			25	9	10.5						OK	25µl/50ml STD-AHBTC ACROLEIN VINYL BROMIDE	
	108354	JA58900-3MSD			24	10	10.2						OK		
	108355	MB				11							clean up		
R	108356	JA59271-14A	3980 TCL11+10	S B	1	12	5.0						OK		
R	108357	JA59192-2	3959 TCL11+10	S 2	4	13	4.8						OK		
R	108358	JA58900-3	3549 APASL.BNZLCHL EPICH.VINYLBR		27	14	~~10.2~~ 9.9						~~AR~~	CFS.CFI	
	108359	JA58900-8			10	15	10.4						OK		
	108360	JA58900-9			10 ~~13~~	16	12.2						OK		
	108361	JA58900-10			10	17	9.7						OK		

*MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VX4579

Print Analyst Name: AUSTIN PARIS

Analyst Signature: JTP

Date: 10/26/2010

Standard Data

Lot #	Description	Conc.
	REFER	TO

Standard Data

Lot #	Description	Conc.
PAGE	239.	

Columns: ZB624 (60m x 250µm x 1.4µm)

Method: V8260.

Initial Cal. Method: MX4576

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/26/2010

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	X108362	JA58900-11	8579 APPSL, BENZENE, ETHYLBENZENE	S	~~9~~ ~~18~~	18	9.2				✓	✓	OK	#10	
	108363	JA58900-12			~~9~~ ~~19~~	19	9.9				✓	✓	OK	#10	
	108364	JA58900-14			~~20~~	20	9.7				✓	✓	OK	#10	
	108365	JA58900-1			~~21~~	21	9.2				✓	✓	OK	#10	
	108366	JA58900-2			~~22~~	22	10.~~4~~ 3				✓	✓	~~OOT~~ OK ~~AAN~~	#11	
	108367	JA58900-4			~~23~~	23	9.3				✓	✓	OK	JTP 10/26 (4) #10	11:22 PM

JTP 10/26/2010

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: ~~VX4587~~ + 4599

Print Analyst Name: AUSTIN PARK

Analyst Signature: JP

Date: 10/21/2010

Standard Data

Lot #	Description	Conc.
010-816-55	ACROLEIN	1000ppm
-89	EXT-ACROLEIN	↓
-91	ACETONE	1000/1000ppm
-95	VINYL BROMIDE	1000ppm

Standard Data

Lot #	Description	Conc.
010-816-66	STD-A	1000ppm
-96	B	
-93	C	
-44	EXT-A	
-92	C	

Columns: ZB624 (60m x .25mm x 1.4µm)

Method: V8260

Initial Cal. Method: MX4516

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 10/21/10

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	Z108390	BFB				1							ok		1:46 PM
	108391	CC4576-20				2							NG	10µl/50mL STD-A B+C ACROLEIN VINYL BROMIDE #1 (CCC)	
	108392	CC4576-20				3					✓	✓	ok	↓	
	108393	MB2				4					✓	✓	ok	VX4591	
	108394	BS2				5					✓	✓	ok	75µl/50mL EXT-A+C/STD-B (1:1) EXT ACROLEIN VINYL BROMIDE. VX4599	
	108395	IB				6									
	108396	JA58900-7	8270 APPEN. BENZIDINE BYCH-VINYLER	W	10	7	16.2				✓	✓	ok		
	108397	JA58900-3CF	↓	↓	28	8	9.5				↓	↑	ok	↓	5:49 PM

JP 10/21/2010

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

MS-SVOA

Semivolatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P29-CC27	**Injection Date:**	10/26/10
Lab File ID:	3P608.D	**Injection Time:**	09:06
Instrument ID:	GCMS3P	**Method:**	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	94158	7.01	328668	9.39	180701	12.87	272525	15.79	265594	19.95	151628	21.79
Upper Limit [a]	188316	7.51	657336	9.89	361402	13.37	545050	16.29	531188	20.45	303256	22.29
Lower Limit [b]	47079	6.51	164334	8.89	90351	12.37	136263	15.29	132797	19.45	75814	21.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP46340-MB1	60980	7.02	216394	9.39	116931	12.87	187764	15.79	183524	19.95	127127	21.79
OP46340-BS1	57234	7.02	197911	9.39	105121	12.87	164514	15.79	163725	19.95	94387	21.79
ZZZZZZ	64350	7.02	237204	9.39	126301	12.87	202805	15.79	198840	19.95	137780	21.79
JA59553-2	54248	7.02	202047	9.39	109869	12.87	175962	15.79	169583	19.95	116903	21.79
ZZZZZZ	56468	7.02	202752	9.39	107640	12.87	171634	15.79	165551	19.95	114940	21.79
OP46332-MB1	72359	7.01	265944	9.39	139284	12.87	212664	15.79	198698	19.95	136320	21.79
OP46332-BS1	63800	7.02	220828	9.39	115538	12.87	175035	15.79	167290	19.95	91850	21.79
ZZZZZZ	57697	7.02	139509*	9.39	44664*	12.88	58435*	15.81	47598*	19.96	37665*	21.80
ZZZZZZ	59868	7.02	186566	9.39	56406*	12.87	67479*	15.79	48980*	19.95	42350*	21.79

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P33-CC27	**Injection Date:**	11/01/10
Lab File ID:	3P693.D	**Injection Time:**	10:51
Instrument ID:	GCMS3P	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	96036	7.00	367965	9.38	218844	12.86	326016	15.78	278288	19.95	103092	21.79
Upper Limit [a]	192072	7.50	735930	9.88	437688	13.36	652032	16.28	556576	20.45	206184	22.29
Lower Limit [b]	48018	6.50	183983	8.88	109422	12.36	163008	15.28	139144	19.45	51546	21.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP46389-MB2	107184	7.00	404539	9.37	231844	12.85	370043	15.77	329575	19.94	156904	21.78
OP46391-MB2	107184	7.00	404539	9.37	231844	12.85	370043	15.77	329575	19.94	156904	21.78
OP46389-LB3	96681	7.00	363416	9.37	210956	12.85	340293	15.77	317287	19.94	159135	21.78
OP46391-LB4	106132	7.00	387803	9.37	230147	12.85	361603	15.77	338071	19.94	178322	21.79
OP46389-BS2	99210	6.99	363814	9.37	205430	12.85	330465	15.77	308813	19.94	155538	21.79
OP46391-BS2	99210	6.99	363814	9.37	205430	12.85	330465	15.77	308813	19.94	155538	21.79
ZZZZZZ	94586	7.00	349000	9.37	200816	12.85	324725	15.76	327472	19.94	186149	21.78
OP46340-MS	105107	6.99	399255	9.37	227899	12.85	356334	15.77	349912	19.94	171195	21.78
OP46340A-MS	105107	6.99	399255	9.37	227899	12.85	356334	15.77	349912	19.94	171195	21.78
OP46340-MSD	115237	6.99	440526	9.37	247113	12.85	390579	15.77	388171	19.94	193705	21.79
OP46340A-MSD	115237	6.99	440526	9.37	247113	12.85	390579	15.77	388171	19.94	193705	21.79
JA58900-3	109369	6.99	398160	9.37	226269	12.84	319569	15.76	317183	19.94	191084	21.78
JA58900-3T												
OP46332-MS	94888	6.99	339370	9.37	190023	12.85	290378	15.76	268456	19.94	153889	21.78
OP46332-MSD	89816	6.99	321918	9.37	190901	12.84	296757	15.76	295134	19.94	186564	21.78
ZZZZZZ	82921	6.99	305410	9.37	176864	12.84	275406	15.76	282451	19.94	193250	21.78
ZZZZZZ	81277	6.99	304611	9.37	173134	12.84	264122	15.76	279053	19.94	188670	21.78
ZZZZZZ	79483	7.00	291809	9.37	172481	12.84	271735	15.76	282793	19.94	195402	21.78
ZZZZZZ	99883	6.99	358754	9.36	193103	12.84	266069	15.76	114393*	19.94	56282	21.78
ZZZZZZ	45833*	7.00	174209*	9.37	93611*	12.84	87217*	15.77	104921*	20.05	50242*	22.08

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P34-CC27	**Injection Date:**	11/02/10
Lab File ID:	3P716.D	**Injection Time:**	10:34
Instrument ID:	GCMS3P	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	75021	6.99	271386	9.36	156883	12.84	240992	15.76	235932	19.94	139698	21.78
Upper Limit [a]	150042	7.49	542772	9.86	313766	13.34	481984	16.26	471864	20.44	279396	22.28
Lower Limit [b]	37511	6.49	135693	8.86	78442	12.34	120496	15.26	117966	19.44	69849	21.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP46463-MB1	82385	6.99	301561	9.36	167097	12.84	254379	15.76	262686	19.94	173765	21.78
OP46463-BS1	76679	6.99	275253	9.36	153314	12.84	239302	15.76	243663	19.94	153659	21.78
ZZZZZZ	77266	6.99	284406	9.36	158583	12.84	236475	15.76	250516	19.94	170047	21.78
JA60201-2	78927	6.99	296308	9.36	160100	12.84	241039	15.76	265072	19.94	185042	21.78
ZZZZZZ	72195	6.99	272362	9.36	151099	12.84	247337	15.76	244781	19.94	171444	21.78
ZZZZZZ	76936	6.99	278935	9.36	153787	12.84	248824	15.76	248925	19.94	175383	21.78
ZZZZZZ	121394	6.99	437610	9.36	161593	12.84	139641	15.77	167266	19.94	218003	21.78
OP46463-MS	75220	6.99	267328	9.36	150394	12.84	237750	15.76	239570	19.94	159257	21.78
OP46463A-MS	75220	6.99	267328	9.36	150394	12.84	237750	15.76	239570	19.94	159257	21.78
OP46463-MSD	75116	6.99	268420	9.36	149182	12.84	237353	15.76	244874	19.94	165596	21.78
OP46463A-MSD	75116	6.99	268420	9.36	149182	12.84	237353	15.76	244874	19.94	165596	21.78
ZZZZZZ	92836	6.99	334888	9.36	184895	12.84	288620	15.76	308373	19.94	219934	21.78
ZZZZZZ	84159	6.99	314566	9.36	174899	12.84	248674	15.76	259666	19.94	177538	21.78
JA58900-1T												
ZZZZZZ	85171	6.99	310311	9.36	170775	12.84	251998	15.76	255546	19.94	175512	21.78
JA58900-7T												
ZZZZZZ	74034	6.99	269403	9.36	145957	12.84	207583	15.76	216746	19.94	158715	21.78
JA58900-8T												
ZZZZZZ	88505	6.99	318433	9.36	176044	12.84	258647	15.76	273227	19.94	200481	21.78
JA58900-9T												
ZZZZZZ	105631	6.99	380390	9.36	208582	12.84	293966	15.76	312670	19.94	227564	21.77
JA58900-12T												
ZZZZZZ	97184	6.99	353091	9.36	191677	12.84	269489	15.76	273471	19.93	196663	21.77
JA58900-14T												
ZZZZZZ	89677	6.99	315900	9.36	174828	12.84	249583	15.76	233973	19.93	154231	21.77
JA58900-2T												
ZZZZZZ	82123	6.99	285993	9.36	157443	12.84	250887	15.75	222419	19.93	146380	21.77
JA58900-4T												
ZZZZZZ	91618	6.99	316515	9.36	171329	12.84	248553	15.75	208409	19.93	129988	21.77
JA58900-10T												
ZZZZZZ	130776	6.99	471444	9.36	257210	12.84	379143	15.76	303558	19.93	198562	21.77
JA58900-11T												

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8

Semivolatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	E3P34-CC27	**Injection Date:**	11/02/10
Lab File ID:	3P716.D	**Injection Time:**	10:34
Instrument ID:	GCMS3P	**Method:**	SW846 8270C

Lab	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

IS 2 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Check Std:	EF4333-CC4329	**Injection Date:**	10/21/10
Lab File ID:	F92522.D	**Injection Time:**	15:26
Instrument ID:	GCMSF	**Method:**	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	240985	3.33	864614	4.99	549746	7.66	949788	9.93	1032893	13.48	866476	14.85
Upper Limit [a]	481970	3.83	1729228	5.49	1099492	8.16	1899576	10.43	2065786	13.98	1732952	15.35
Lower Limit [b]	120493	2.83	432307	4.49	274873	7.16	474894	9.43	516447	12.98	433238	14.35

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP46278-MB1	180528	3.32	635402	4.99	418130	7.66	696475	9.93	788979	13.48	671029	14.85
OP46278-BS1	193473	3.33	687704	5.00	417572	7.66	711604	9.93	798534	13.48	691154	14.85
ZZZZZZ	200701	3.33	680862	4.99	462134	7.66	764963	9.93	886169	13.48	743142	14.85
JA58900-5T	200701	3.33	680862	4.99	462134	7.66	764963	9.93	886169	13.48	743142	14.85
ZZZZZZ	198272	3.32	642507	4.99	432746	7.66	725938	9.93	840676	13.48	691077	14.85
JA58900-6T	198272	3.32	642507	4.99	432746	7.66	725938	9.93	840676	13.48	691077	14.85
JA59086-1	193028	3.33	665146	4.99	430687	7.66	717592	9.93	817575	13.48	711679	14.85
OP46278-MS	186612	3.33	652627	5.00	411592	7.66	678623	9.93	739905	13.49	632387	14.85
OP46278A-MS	186612	3.33	652627	5.00	411592	7.66	678623	9.93	739905	13.49	632387	14.85
OP46278-MSD	183255	3.33	642610	5.00	407434	7.66	674976	9.93	744857	13.48	643064	14.85
OP46278A-MSD	183255	3.33	642610	5.00	407434	7.66	674976	9.93	744857	13.48	643064	14.85
ZZZZZZ	210185	3.32	711006	4.99	469739	7.66	799776	9.93	905871	13.48	764974	14.85
ZZZZZZ	210267	3.33	719444	4.99	479961	7.66	789224	9.93	891590	13.48	761648	14.85
ZZZZZZ	202287	3.33	676885	4.99	445693	7.66	752331	9.93	836070	13.48	705516	14.85
ZZZZZZ	204584	3.33	668161	4.99	445738	7.66	753462	9.93	856191	13.48	739268	14.85
ZZZZZZ	201848	3.33	681457	4.99	450746	7.66	743837	9.93	857032	13.48	714128	14.85
ZZZZZZ	200667	3.33	679167	4.99	447310	7.66	755304	9.93	865128	13.48	727840	14.85
ZZZZZZ	203940	3.33	677992	4.99	445184	7.66	730851	9.93	851683	13.48	726058	14.85
ZZZZZZ	219411	3.33	735771	4.99	482455	7.66	817964	9.93	939168	13.48	804013	14.85

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8270C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JA58900-1T	3P728R.D	39.0	33.0	42.0	40.0	45.0	49.0
JA58900-2T	3P734R.D	42.0	36.0	60.0	47.0	54.0	68.0
JA58900-3T	3P705R.D	49.0	39.0	67.0	48.0	55.0	70.0
JA58900-4T	3P735R.D	41.0	38.0	63.0	49.0	54.0	80.0
JA58900-7T	3P729R.D	36.0	31.0	44.0	35.0	41.0	51.0
JA58900-8T	3P730R.D	46.0	37.0	54.0	42.0	50.0	63.0
JA58900-9T	3P731R.D	46.0	40.0	58.0	49.0	57.0	63.0
JA58900-10T	3P736R.D	49.0	46.0	73.0	56.0	67.0	83.0
JA58900-11T	3P737R.D	35.0	32.0	51.0	38.0	41.0	62.0
JA58900-12T	3P732R.D	44.0	42.0	59.0	41.0	47.0	70.0
JA58900-14T	3P733R.D	46.0	40.0	60.0	42.0	48.0	64.0
OP46332-BS1	3P617.D	82.0	77.0	100.0	91.0	94.0	97.0
OP46332-MB1	3P616.D	73.0	65.0	77.0	83.0	84.0	92.0
OP46332-MS	3P706.D	57.0	52.0	77.0	59.0	66.0	78.0
OP46332-MSD	3P707.D	14.0* [a]	13.0* [a]	21.0* [a]	14.0* [a]	17.0* [a]	23.0* [a]

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	30-109%
S2 = Phenol-d5	28-108%
S3 = 2,4,6-Tribromophenol	28-125%
S4 = Nitrobenzene-d5	28-113%
S5 = 2-Fluorobiphenyl	38-107%
S6 = Terphenyl-d14	31-116%

(a) Outside of in house control limits.

Semivolatile Surrogate Recovery Summary

Job Number: JA58900A
Account: ENSRMAA AECOM, INC.
Project: Bell Bend Nuclear Power Plant, Salem Township, PA

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JA58900-5T	F92534A.D	41.0	22.0	90.0	83.0	76.0	93.0
JA58900-6T	F92535A.D	52.0	30.0	107.0	102.0	92.0	100.0
OP46278-BS1	F92525.D	52.0	38.0	101.0	98.0	94.0	101.0
OP46278-MB1	F92524.D	46.0	26.0	107.0	98.0	94.0	102.0
OP46278-MS	F92527.D	66.0	62.0* [a]	97.0	99.0	93.0	99.0
OP46278-MSD	F92528.D	67.0	64.0* [a]	94.0	98.0	90.0	95.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	13-68%
S2 = Phenol-d5	10-49%
S3 = 2,4,6-Tribromophenol	37-130%
S4 = Nitrobenzene-d5	25-112%
S5 = 2-Fluorobiphenyl	31-106%
S6 = Terphenyl-d14	14-122%

(a) Outside of in house control limits, but within reasonable method recovery limits.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\81\
Data File : 3P1704.D
Acq On : 20 Dec 2010 9:49 am
Operator : kristis
Sample : ap9std-50
Misc : op47086,e3p81,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

FOR JA58900

Quant Time: Dec 30 12:12:09 2010
Quant Method : C:\msdchem\1\METHODS\m3p81ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Dec 20 20:30:58 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4A	6.449	152	142200	40.00	ppb	0.00
13) Naphthalene-d8A	8.797	136	486935	40.00	ppb	0.00
24) Acenaphthene-d10A	12.253	164	284911	40.00	ppb	0.00
37) Phenanthrene-d10A	15.146	188	469512	40.00	ppb	0.00
53) Chrysene-d12A	19.083	240	524291	40.00	ppb	0.00
62) Perylene-d12A	20.618	264	414910	40.00	ppb	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 21 - 100		Recovery	=	0.00%#	
4) Phenol-d5	0.000	99	0d	0.00	ppb	
Spiked Amount 50.000	Range 10 - 94		Recovery	=	0.00%#	
14) Nitrobenzene-d5	7.337	82	27648	50.00	ppb	0.00
Spiked Amount 50.000	Range 35 - 114		Recovery	=	100.00%	
25) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000	Range 43 - 116		Recovery	=	0.00%#	
38) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 10 - 123		Recovery	=	0.00%#	
54) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 33 - 141		Recovery	=	0.00%#	
Target Compounds						Qvalue
2) 2-Picoline	5.973	93	42306	50.00	ppb	100
5) Pentachloroethane	5.936	167	99243	50.00	ppb	100
6) Methyl methanesulfonate	4.230	80	128631	50.00	ppb	100
7) N-Nitrosodiethylamine	4.797	102	96747	50.00	ppb	100
8) N-Nitrosomethylethylamine	3.754	42	112709	50.00	ppb	100
9) Ethyl methanesulfonate	5.331	79	175174	50.00	ppb	100
10) N-Nitrosopyrrolidine	7.273	41	90508	50.00	ppb	100
11) N-Nitrosomorpholine	7.305	56	107401	50.00	ppb	100
12) o-Toluidine	7.337	106	307470	50.00	ppb	100
15) O,O,O-Triethyl phospho...	8.530	198	96000	50.00	ppb	100
16) N-Nitrosopiperidine	7.840	42	133008	50.00	ppb	100
17) 2,6-Dichlorophenol	9.054	162	183996	50.00	ppb	100
18) A,A-Dimethylphenethyla...	8.765	58	395057	50.00	ppb	100
19) Hexachloropropene	9.076	213	158295	50.00	ppb	100
20) p-Phenylenediamine	9.733	108	32013	50.00	ppb	100
21) N-Nitrosodi-n-butylamine	9.792	84	130705	50.00	ppb	100
22) Safrole	10.097	162	155921	50.00	ppb	100
23) Isosafrole	11.124	162	499752m	67.04	ppb	
26) Thionazin	12.814	143	318571	50.00	ppb	100
28) Phorate	14.339	75	255462	31.44	ppb	100
29) Phenacetin	14.446	108	231402	50.00	ppb	100
30) 1,2,4,5-Tetrachloroben...	10.600	216	209445	50.00	ppb	100
31) 1,4-Naphthoquinone	11.515	158	118093	51.12	ppb	100
32) m-Dinitrobenzene	11.932	168	71661	49.82	ppb #	100
33) Pentachlorobenzene	12.686	250	191288	49.90	ppb	100
34) 2-Naphthylamine	12.814	143	318571	50.04	ppb	100
35) 1-Naphthylamine	12.969	143	323322	49.22	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\81\
Data File : 3P1704.D
Acq On : 20 Dec 2010 9:49 am
Operator : kristis
Sample : ap9std-50
Misc : op47086,e3p81,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 12:12:09 2010
Quant Method : C:\msdchem\1\METHODS\m3p81ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Dec 20 20:30:58 2010
Response via : Initial Calibration

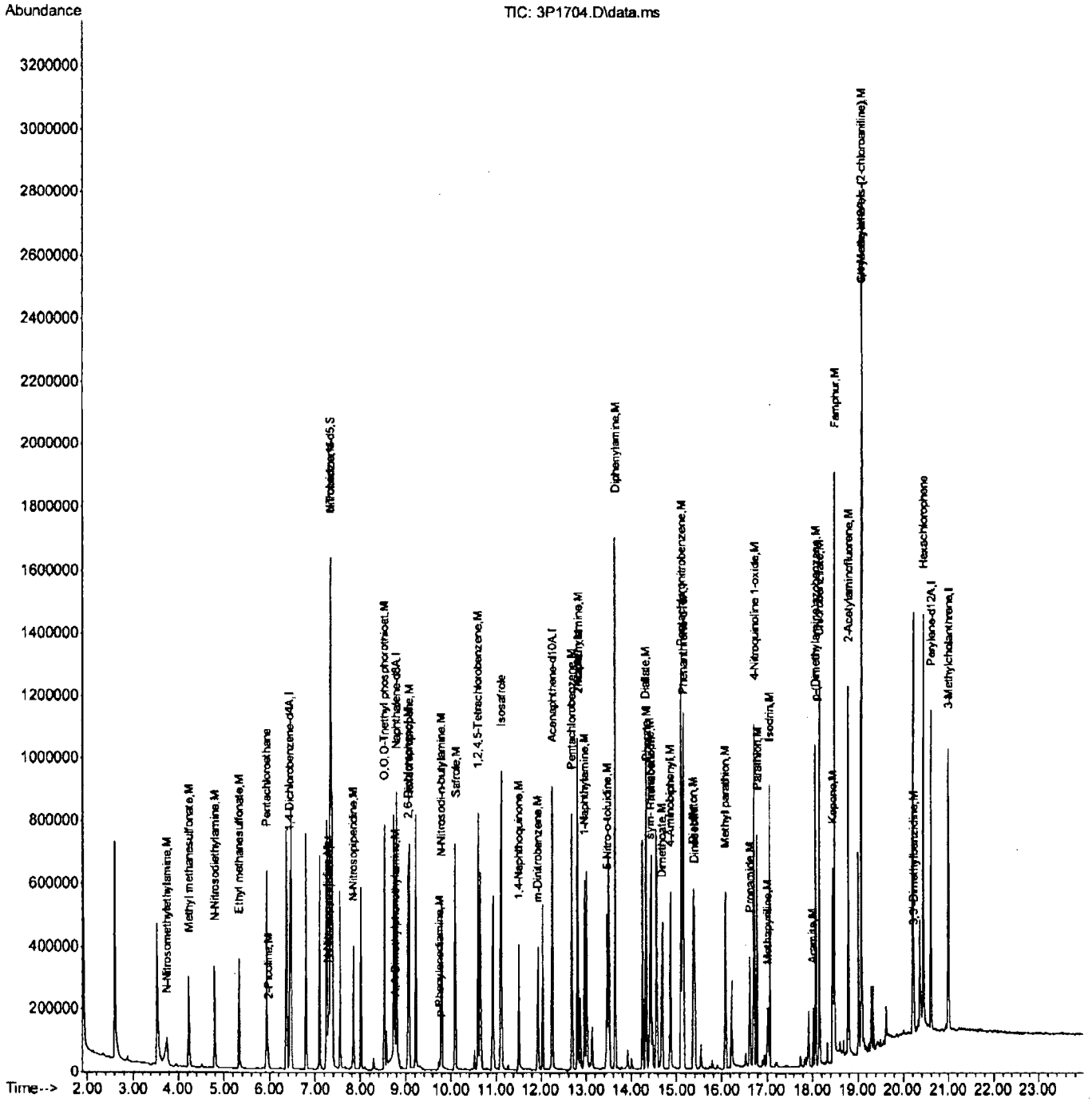
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 5-Nitro-o-toluidine	13.467	152	129446	50.13 ppb	100
39) Disulfoton	15.376	88	189926	50.00 ppb	100
40) Dinoseb	15.403	211	104140	50.00 ppb	100
41) Dimethoate	14.686	87	155474	50.22 ppb	100
42) 4-Aminobiphenyl	14.868	169	328146	50.00 ppb	100
43) Methyl parathion	16.088	125	114898	50.00 ppb	100
44) Parathion	16.783	109	93033	50.00 ppb	100
45) Diphenylamine	13.649	169	648152	50.00 ppb	100
46) Isodrin	17.061	193	73533	50.00 ppb	100
47) Diallate	14.328	86	154989	50.00 ppb	100
48) Pentachloronitrobenzene	15.114	295	60245	100.00 ppb	100
49) Pronamide	16.622	173	103256	50.00 ppb	100
50) 4-Nitroquinoline 1-oxide	16.724	190	223618	200.00 ppb	100
51) Methapyriline	17.013	58	109631	50.00 ppb	100
52) sym-Trinitrobenzene	14.430	213	57266	50.00 ppb	100
55) Aramite	18.013	185	17388	100.00 ppb	100
56) p-(Dimethylamine)azobe...	18.067	120	191582	49.55 ppb	100
57) Kepone	18.446	272	139935	300.00 ppb	100
58) Famphur	18.489	218	579664	300.00 ppb	100
59) 2-Acetylaminofluorene	18.794	181	273768	50.00 ppb	100
60) 3,3'-Dimethylbenzidine	20.233	212	18581	46.74 ppb	97
61) Chlorobenzilate	18.152	251	197570	50.00 ppb	100
63) 4,4-Methylene-bis-(2-c...	19.083	266	39928	50.00 ppb	100
64) 3-Methylcholanthrene	21.008	252	121953	48.80 ppb	100
65) Hexachlorophene	20.447	196	132940	300.00 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\81\
Data File : 3P1704.D
Acq On : 20 Dec 2010 9:49 am
Operator : kristis
Sample : ap9std-50
Misc : op47086,e3p81,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 12:12:09 2010
Quant Method : C:\msdchem\1\METHODS\m3p81ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Dec 20 20:30:58 2010
Response via : Initial Calibration



Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP2206AP9.M (RTE Integrator)
Title : SEMI-VOA METHOD. Column zb-5ms 30mX0.25mmIDX0.25u
Last Update : Thu Jul 22 09:48:03 2010
Response via : Initial Calibration

Calibration Files
25 =P51225.D 50 =P51222.D 80 =P51224.D 100 =P51223.D
10 =P51226.D 5 =P51227.D 2 =P51228.D

Compound	25	50	80	100	10	5	2	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2)M 2-Picoline	1.590	1.607	1.593	1.589	1.666	1.640	1.527	1.602	2.76
3)S 2-Fluorophenol	1.321	1.379	1.340	1.352	1.426	1.342	1.222	1.340	4.67
4)S Phenol-d5	1.871	1.943	1.868	1.863	1.927	1.772	1.524	1.824	7.85
5) Pentachloroethane	0.660	0.660	0.634	0.641	0.669	0.674	0.575	0.645	5.25
6)M Methyl methanesul	1.132	1.175	1.109	1.081	1.194	1.138	1.095	1.132	3.65
7)M N-Nitrosodiethyla	0.649	0.694	0.668	0.686	0.662	0.631	0.600	0.656	4.94
8)M N-Nitrosomethylet	0.803	0.827	0.763	0.774	0.825	0.774	0.719	0.783	4.87
9)M Ethyl methanesulf	1.169	1.231	1.189	1.187	1.272	1.188	1.060	1.185	5.50
10)M N-Nitrosopyrrolid	0.496	0.502	0.457	0.444	0.539	0.550	0.547	0.505	8.49
11)M N-Nitrosomorpholi	0.818	0.844	0.787	0.773	0.869	0.859	0.766	0.817	5.15
12)M o-Toluidine	1.796	1.738	1.636	1.591	1.935	2.001	1.811	1.787	8.28
13) I Naphthalene-d8A	----------ISTD----------								
14)S Nitrobenzene-d5	0.534	0.541	0.544	0.544	0.577	0.559	0.530	0.547	2.93
15)M O,O,O-Triethyl ph	0.249	0.263	0.268	0.274	0.263	0.237	0.201	0.251	9.97
16)M N-Nitrosopiperidi	0.298	0.306	0.304	0.305	0.309	0.294	0.265	0.297	5.16
17)M 2,6-Dichloropheno	0.333	0.369	0.362	0.363	0.333	0.324	0.300	0.341	7.45
18)M A,A-Dimethylphene	0.789	0.769	0.861	0.851	0.818	0.732	0.728	0.792	6.72
19)M Hexachloropropene	0.384	0.393	0.391	0.387	0.394	0.364	0.282	0.371	10.92
20)M p-Phenylenediamin	0.074	0.058	0.061	0.062	0.101	0.106	0.097	0.080	26.12
----- Linear regression ----- Coefficient = 0.9946									
Response Ratio = 0.00573 + 0.05855 *A									
21)M N-Nitrosodi-n-but	0.325	0.343	0.339	0.335	0.326	0.309	0.251	0.318	9.96
22)M Safrole	0.341	0.350	0.354	0.350	0.341	0.331	0.262	0.333	9.60
23) Isosafrole	0.166	0.161	0.163	0.160	0.167	0.156	0.147	0.160	4.31
24) I Acenaphthene-d10A	----------ISTD----------								
25)S 2-Fluorobiphenyl	1.480	1.386	1.351	1.336	1.622	1.560	1.459	1.456	7.38
26)M Thionazin	0.164	0.152	0.143	0.140	0.172	0.163	0.158	0.156	7.38
27)M Tetraethyl dithio	0.182	0.175	0.179	0.175	0.186	0.161	0.149	0.173	7.60
28)M Phorate	0.543	0.530	0.542	0.516	0.471	0.362	0.229	0.456	25.99
----- Linear regression ----- Coefficient = 0.9986									
Response Ratio = -0.00970 + 0.53205 *A									
29)M Phenacetin	0.657	0.624	0.603	0.578	0.712	0.673	0.604	0.636	7.39
30)M 1,4-Naphthoquinon	0.382	0.356	0.331	0.308	0.380	0.348	0.297	0.343	9.60
31)M m-Dinitrobenzene	0.204	0.208	0.215	0.207	0.200	0.165	0.127	0.190	16.77
----- Linear regression ----- Coefficient = 0.9994									
Response Ratio = -0.00395 + 0.21172 *A									
32)M Pentachlorobenzen	0.559	0.554	0.557	0.552	0.568	0.559	0.497	0.550	4.32
33)M 2-Naphthylamine	0.869	0.782	0.749	0.711	0.917	0.894	0.819	0.820	9.39
34)M 1-Naphthylamine	1.032	0.966	0.921	0.889	1.073	1.036	0.897	0.974	7.64
35)M 5-Nitro-o-toluidi	0.349	0.356	0.344	0.332	0.350	0.331	0.264	0.332	9.45
36) I Phenanthrene-d10A	----------ISTD----------								
37)S 2,4,6-Tribromophe	0.101	0.114	0.113	0.113	0.089	0.088		0.103	11.99
38)M Disulfoton	0.301	0.317	0.319	0.314	0.294	0.268	0.251	0.295	8.92
39)M Dinoseb	0.214	0.228	0.241	0.241	0.193	0.141		0.210	18.14
----- Linear regression ----- Coefficient = 0.9996									
Response Ratio = -0.01633 + 0.24693 *A									
40)M Dimethoate	0.267	0.266	0.248	0.235	0.275	0.260	0.222	0.253	7.54
41)M 4-Aminobiphenyl	1.217	1.240	1.233	1.218	1.258	1.184	1.047	1.200	5.92
42)M Methyl parathion	0.233	0.244	0.227	0.214	0.220	0.180	0.147	0.209	16.28
----- Linear regression ----- Coefficient = 0.9954									
Response Ratio = 0.00332 + 0.22089 *A									
43)M Parathion	0.178	0.177	0.171	0.164	0.176	0.168	0.130	0.166	9.97

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44)M Diphenylamine      1.217 1.240 1.233 1.218 1.258 1.184 1.047 1.200   5.92
45)M Isodrin            0.147 0.152 0.147 0.141 0.152 0.144 0.123 0.144   6.83
46)M Diallate           0.301 0.304 0.301 0.293 0.315 0.297 0.287 0.300   2.98
47)M Pentachloronitrob  0.043 0.045 0.045 0.045 0.045 0.040       0.044   4.75
48)M Pronamide          0.241 0.256 0.249 0.244 0.251 0.229 0.181 0.236  10.85
49)M 4-Nitroquinoline   0.139 0.145 0.141 0.133 0.119 0.088 0.046 0.116  31.49
            ----- Linear regression -----  Coefficient =  0.9972
              Response Ratio = -0.00916 + 0.13867 *A

50)M Methapyriline      0.292 0.228 0.203 0.172 0.343 0.353 0.339 0.276  26.97
         ----- Quadratic regression -----                 Coefficient =  0.9976
              Response Ratio = 0.00893 + 0.29489 *A + -0.05031 *A^2

51)M sym-Trinitrobenze 0.117 0.124 0.131 0.128 0.099 0.076 0.057 0.105  27.46
            ----- Linear regression -----  Coefficient =  0.9993
              Response Ratio = -0.00685 + 0.13168 *A


52) I   Chrysene-d12A          ----------------ISTD--------------------
53)S Terphenyl-d14      0.887 0.919 0.884 0.857 0.964 1.014 1.226 0.964  13.19
54)M Aramite            0.017 0.018 0.017 0.018 0.016 0.015       0.017   6.17
55)M p-(Dimethylamine) 0.348 0.356 0.336 0.329 0.347 0.300 0.262 0.325  10.21
56)M Kepone             0.088 0.072 0.064 0.056 0.121 0.125 0.115 0.091  31.54
         ----- Quadratic regression -----                 Coefficient =  0.9972
              Response Ratio = 0.03014 + 0.08666 *A + -0.00219 *A^2

57)M Famphur            0.304 0.197 0.154 0.132 0.446 0.485 0.458 0.311  49.08
58)M 2-Acetylaminofluo 0.482 0.516 0.490 0.475 0.462 0.404 0.329 0.451  14.13
59)M 3,3'-Dimethylbenz 0.297 0.184 0.114       0.502 0.572 0.502 0.362  52.51
60)M Chlorobenzilate    0.342 0.354 0.340 0.333 0.355 0.331 0.264 0.331   9.36

61) I   Perylene-d12A          ----------------ISTD--------------------
62)M 4,4-Methylene-bis 0.124 0.103 0.094 0.091 0.133 0.124 0.100 0.110  15.25
            ----- Linear regression -----  Coefficient =  0.9924
              Response Ratio = 0.00952 + 0.08951 *A

63)M Hexachlorophene    0.012 0.070 0.047 0.071 0.003 0.003       0.034  95.27
64)I 3-Methylcholanthr 0.273 0.272 0.264 0.262 0.260 0.241 0.216 0.255   8.05
-----------------------------------------------------------------------------
(#) = Out of Range

         MP2206AP9.M        Thu Dec 30 15:22:06 2010   MSP
```

FOR RE-INJECTION ADDITIONAL DATA

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1922.D
Acq On : 6 Jan 2011 12:52 pm
Operator : kristis
Sample : cc93-2
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 07 14:54:43 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:53:45 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4A	6.385	152	169158	40.00 ppb	0.00
13) Naphthalene-d8A	8.728	136	582670	40.00 ppb	0.00
24) Acenaphthene-d10A	12.172	164	345500	40.00 ppb	0.00
37) Phenanthrene-d10A	15.061	188	573549	40.00 ppb	0.00
53) Chrysene-d12A	19.024	240	614029	40.00 ppb	0.00
62) Perylene-d12A	20.543	264	490447	40.00 ppb	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppb	
Spiked Amount 50.000	Range 21 - 100		Recovery	= 0.00%#	
4) Phenol-d5	0.000	99	0	0.00 ppb	
Spiked Amount 50.000	Range 10 - 94		Recovery	= 0.00%#	
14) Nitrobenzene-d5	0.000	82	0d	0.00 ppb	
Spiked Amount 50.000	Range 35 - 114		Recovery	= 0.00%#	
25) 2-Fluorobiphenyl	0.000	172	0	0.00 ppb	
Spiked Amount 50.000	Range 43 - 116		Recovery	= 0.00%#	
38) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppb	
Spiked Amount 50.000	Range 10 - 123		Recovery	= 0.00%#	
54) Terphenyl-d14	0.000	244	0	0.00 ppb	
Spiked Amount 50.000	Range 33 - 141		Recovery	= 0.00%#	
Target Compounds					Qvalue
5) Pentachloroethane	5.877	167	4692	1.94 ppb	99
6) Methyl methanesulfonate	4.208	80	6148	1.96 ppb	96
7) N-Nitrosodiethylamine	4.770	102	3963	1.74 ppb	95
8) N-Nitrosomethylethylamine	3.743	42	5438	2.01 ppb	96
9) Ethyl methanesulfonate	5.310	79	7838	1.92 ppb	97
10) N-Nitrosopyrrolidine	7.209	41	3793	1.71 ppb	85
11) N-Nitrosomorpholine	7.246	56	5526	1.96 ppb	97
12) o-Toluidine	7.273	106	15686	2.02 ppb	97
15) O,O,O-Triethyl phospho...	8.460	198	4379	1.88 ppb	97
16) N-Nitrosopiperidine	7.781	42	6295	1.91 ppb	96
17) 2,6-Dichlorophenol	8.995	162	7512	1.73 ppb	97
18) A,A-Dimethylphenethyla...	8.530	58	9232	1.31 ppb	100
19) Hexachloropropene	9.006	213	6972	1.80 ppb	97
20) p-Phenylenediamine	9.733	108	1444	1.08 ppb #	45
21) N-Nitrosodi-n-butylamine	9.728	84	5835	1.84 ppb	91
22) Safrole	10.027	162	6984	1.87 ppb	96
23) Isosafrole	11.054	162	23600	2.22 ppb	100
26) Thionazin	12.745	143	17624	2.08 ppb	100
27) Tetraethyl dithiopyrop...	14.178	322	3142	1.87 ppb	100
28) Phorate	14.253	75	12382	1.96 ppb	100
29) Phenacetin	14.344	108	9098	1.67 ppb	95
30) 1,2,4,5-Tetrachloroben...	10.530	216	9685	1.89 ppb	99
31) 1,4-Naphthoquinone	11.461	158	4277	1.59 ppb	98
32) m-Dinitrobenzene	11.889	168	2366	1.44 ppb	84
33) Pentachlorobenzene	12.611	250	8902	1.87 ppb	95
34) 2-Naphthylamine	12.745	143	17624	2.08 ppb	95
35) 1-Naphthylamine	12.900	143	18757	2.17 ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1922.D
Acq On : 6 Jan 2011 12:52 pm
Operator : kristis
Sample : cc93-2
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 07 14:54:43 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:53:45 2011
Response via : Initial Calibration

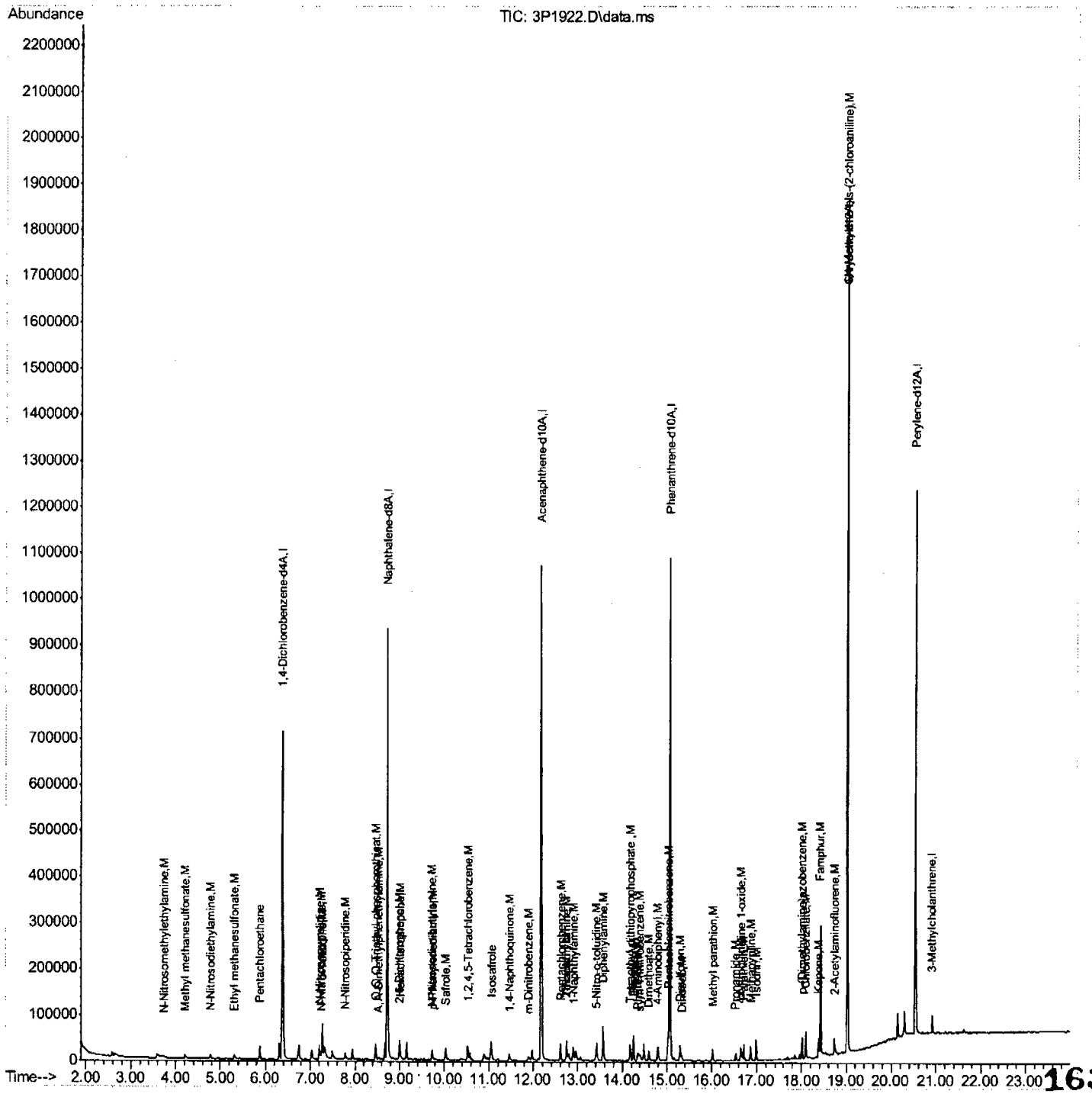
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) 5-Nitro-o-toluidine	13.402	152	5433	1.70 ppb		87
39) Disulfoton	15.291	88	9413	1.95 ppb		95
40) Dinoseb	15.323	211	1976	0.99 ppb		91
41) Dimethoate	14.590	87	7379	1.90 ppb		96
42) 4-Aminobiphenyl	14.793	169	19610	2.17 ppb		96
43) Methyl parathion	16.013	125	5481	1.92 ppb		95
44) Parathion	16.713	109	4198	1.86 ppb		95
45) Diphenylamine	13.568	169	29885	1.91 ppb		98
46) Isodrin	16.991	193	3839	2.06 ppb		96
47) Diallate	14.242	86	7361	1.92 ppb		91
48) Pentachloronitrobenzene	15.023	295	2542	3.61 ppb		90
49) Pronamide	16.537	173	4985	1.93 ppb		86
50) 4-Nitroquinoline 1-oxide	16.649	190	3587	3.43 ppb		90
51) Methapyriline	16.868	58	11568	2.79 ppb		98
52) sym-Trinitrobenzene	14.381	213	1453	1.29 ppb	#	71
56) p-(Dimethylamine)azobe...	18.008	120	8694	1.91 ppb		99
57) Kepone	18.377	272	12320	14.81 ppb		97
58) Famphur	18.419	218	70104	16.68 ppb		93
59) 2-Acetylaminofluorene	18.740	181	12593	1.89 ppb		97
61) Chlorobenzilate	18.093	251	9092	1.91 ppb		95
63) 4,4-Methylene-bis-(2-c...	19.024	266	3031	2.23 ppb		80
64) 3-Methylcholanthrene	20.912	252	5660	1.94 ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1922.D
Acq On : 6 Jan 2011 12:52 pm
Operator : kristis
Sample : cc93-2
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 07 14:54:43 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:53:45 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1921.D
Acq On : 6 Jan 2011 12:23 pm
Operator : kristis
Sample : cc93-5
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 14:56:05 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:55:10 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4A	6.380	152	128922	40.00	ppb	0.00
13) Naphthalene-d8A	8.728	136	448710	40.00	ppb	0.00
24) Acenaphthene-d10A	12.172	164	266002	40.00	ppb	0.00
37) Phenanthrene-d10A	15.061	188	439090	40.00	ppb	0.00
53) Chrysene-d12A	19.024	240	463264	40.00	ppb	0.00
62) Perylene-d12A	20.543	264	354349	40.00	ppb	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppb	
Spiked Amount 50.000	Range 21 - 100		Recovery	=	0.00%#	
4) Phenol-d5	0.000	99	0	0.00	ppb	
Spiked Amount 50.000	Range 10 - 94		Recovery	=	0.00%#	
14) Nitrobenzene-d5	0.000	82	0d	0.00	ppb	
Spiked Amount 50.000	Range 35 - 114		Recovery	=	0.00%#	
25) 2-Fluorobiphenyl	0.000	172	0	0.00	ppb	
Spiked Amount 50.000	Range 43 - 116		Recovery	=	0.00%#	
38) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppb	
Spiked Amount 50.000	Range 10 - 123		Recovery	=	0.00%#	
54) Terphenyl-d14	0.000	244	0	0.00	ppb	
Spiked Amount 50.000	Range 33 - 141		Recovery	=	0.00%#	
Target Compounds						Qvalue
2) 2-Picoline	5.931	93	2015	5.00	ppb	100
5) Pentachloroethane	5.877	167	9450	5.00	ppb	100
6) Methyl methanesulfonate	4.192	80	12286	5.00	ppb	100
7) N-Nitrosodiethylamine	4.759	102	8577	5.00	ppb	100
8) N-Nitrosomethylethylamine	3.727	42	10397	5.00	ppb	100
9) Ethyl methanesulfonate	5.294	79	15248	5.00	ppb	100
10) N-Nitrosopyrrolidine	7.204	41	8692	5.00	ppb	100
11) N-Nitrosomorpholine	7.241	56	11763	5.00	ppb	100
12) o-Toluidine	7.268	106	31338	5.00	ppb	100
15) O,O,O-Triethyl phospho...	8.460	198	9075	5.00	ppb	100
16) N-Nitrosopiperidine	7.770	42	13094	5.00	ppb	100
17) 2,6-Dichlorophenol	8.995	162	16509	5.00	ppb	100
18) A,A-Dimethylphenethyla...	8.514	58	17843	5.00	ppb	100
19) Hexachloropropene	9.006	213	15241	5.00	ppb	100
20) p-Phenylenediamine	9.696	108	7329	5.00	ppb	100
21) N-Nitrosodi-n-butylamine	9.723	84	12422	5.00	ppb	100
22) Safrole	10.028	162	14349	5.00	ppb	100
23) Isosafrole	11.049	162	47529	5.00	ppb	100
26) Thionazin	12.745	143	35534	5.00	ppb	100
27) Tetraethyl dithiopyrop...	14.178	322	6434	5.00	ppb	100
28) Phorate	14.253	75	24764	5.00	ppb	100
29) Phenacetin	14.339	108	20368	5.00	ppb	100
30) 1,2,4,5-Tetrachloroben...	10.530	216	19942	5.00	ppb	100
31) 1,4-Naphthoquinone	11.450	158	9651	5.00	ppb	100
32) m-Dinitrobenzene	11.884	168	5973	5.00	ppb	100
33) Pentachlorobenzene	12.611	250	18747	5.00	ppb	100
34) 2-Naphthylamine	12.745	143	35534	5.00	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1921.D
Acq On : 6 Jan 2011 12:23 pm
Operator : kristis
Sample : cc93-5
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 14:56:05 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:55:10 2011
Response via : Initial Calibration

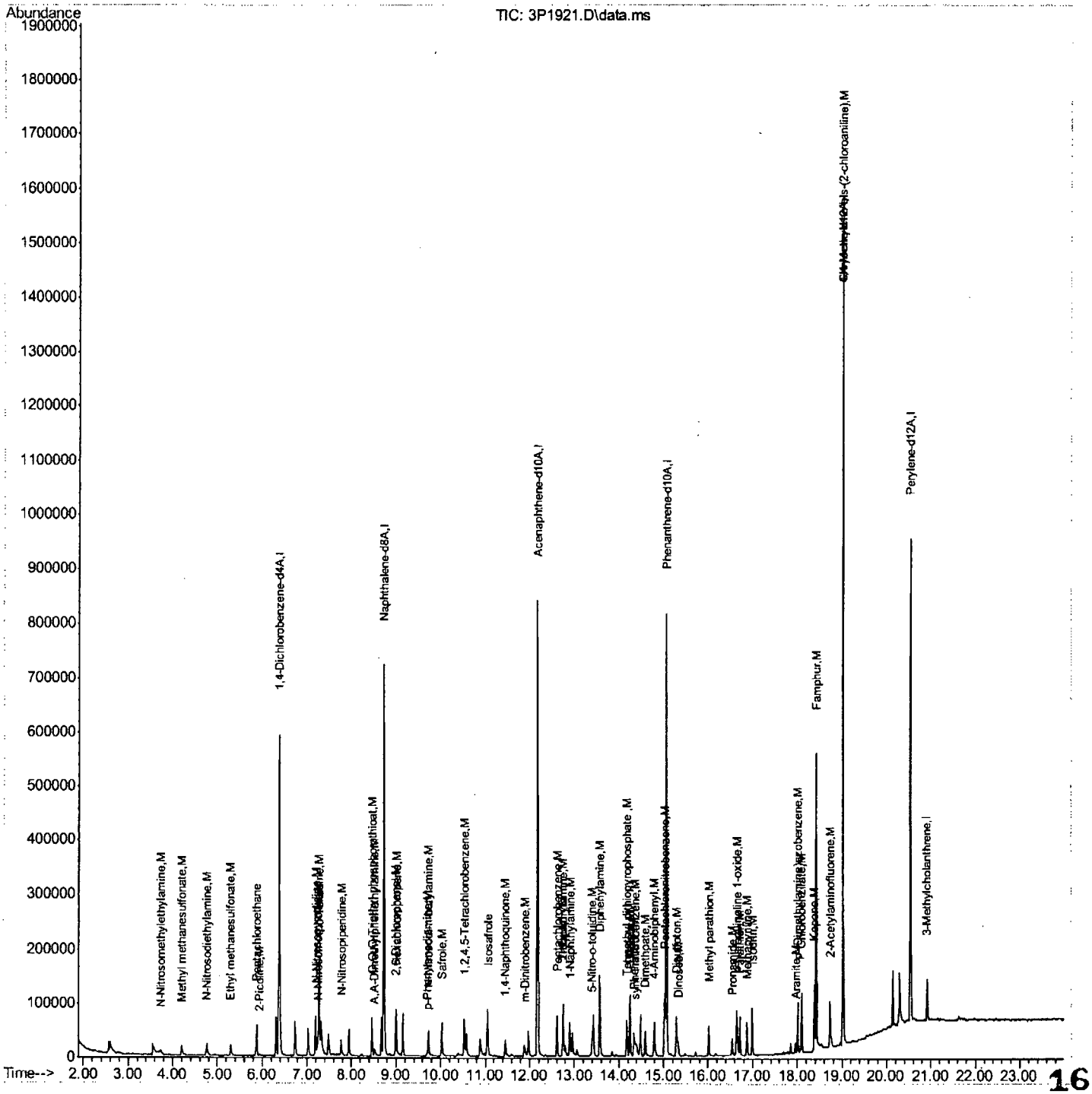
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) 1-Naphthylamine	12.894	143	36423	5.00 ppb	100
36) 5-Nitro-o-toluidine	13.397	152	12534	5.00 ppb	100
39) Disulfoton	15.291	88	19173	5.00 ppb	100
40) Dinoseb	15.323	211	5543	5.00 ppb	100
41) Dimethoate	14.590	87	15210	5.00 ppb	100
42) 4-Aminobiphenyl	14.788	169	38622	5.00 ppb	100
43) Methyl parathion	16.013	125	11138	5.00 ppb	100
44) Parathion	16.713	109	8574	5.00 ppb	100
45) Diphenylamine	13.568	169	59029	5.00 ppb	100
46) Isodrin	16.991	193	7364	5.00 ppb	100
47) Diallate	14.242	86	14851	5.00 ppb	100
48) Pentachloronitrobenzene	15.023	295	5155	10.00 ppb	100
49) Pronamide	16.542	173	10088	5.00 ppb	100
50) 4-Nitroquinoline 1-oxide	16.649	190	11073	20.00 ppb	100
51) Methapyriline	16.868	58	21521	5.00 ppb	100
52) sym-Trinitrobenzene	14.371	213	3301	5.00 ppb	100
55) Aramite	17.960	185	1772	10.00 ppb	100
56) p-(Dimethylamine)azobe...	18.008	120	17331	5.00 ppb	100
57) Kepone	18.377	272	25296	30.00 ppb	100
58) Famphur	18.425	218	139078	30.00 ppb	100
59) 2-Acetylaminofluorene	18.735	181	26025	5.00 ppb	100
61) Chlorobenzilate	18.093	251	18383	5.00 ppb	100
63) 4,4-Methylene-bis-(2-c...	19.024	266	6399	5.00 ppb	100
64) 3-Methylcholanthrene	20.912	252	10653	5.00 ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1921.D
Acq On : 6 Jan 2011 12:23 pm
Operator : kristis
Sample : cc93-5
Misc : op47543,e3p93,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 07 14:56:05 2011
Quant Method : C:\msdchem\1\METHODS\m3p93ap9.m
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jan 07 14:55:10 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1923.D
Acq On : 6 Jan 2011 1:21 pm
Operator : kristis
Sample : ja58900-1
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 15:06:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	304663	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1331431	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	795476	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1255157	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1358695	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1128381	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	6.385	152	304663	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	795476	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1358695	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	795476	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.411	112	258269	25.61 ppb	0.02
Spiked Amount 50.000			Recovery =	51.22%	
8) Phenol-d5	5.973	99	318582	24.08 ppb	0.01
Spiked Amount 50.000			Recovery =	48.16%	
25) Nitrobenzene-d5	7.455	82	346075	25.35 ppb	0.00
Spiked Amount 50.000			Recovery =	50.70%	
51) 2-Fluorobiphenyl	10.921	172	675411	27.10 ppb	0.00
Spiked Amount 50.000			Recovery =	54.20%	
73) 2,4,6-Tribromophenol	13.766	330	98336	23.90 ppb	0.00
Spiked Amount 50.000			Recovery =	47.80%	
85) Terphenyl-d14	17.799	244	601577	31.69 ppb	0.00
Spiked Amount 50.000			Recovery =	63.38%	

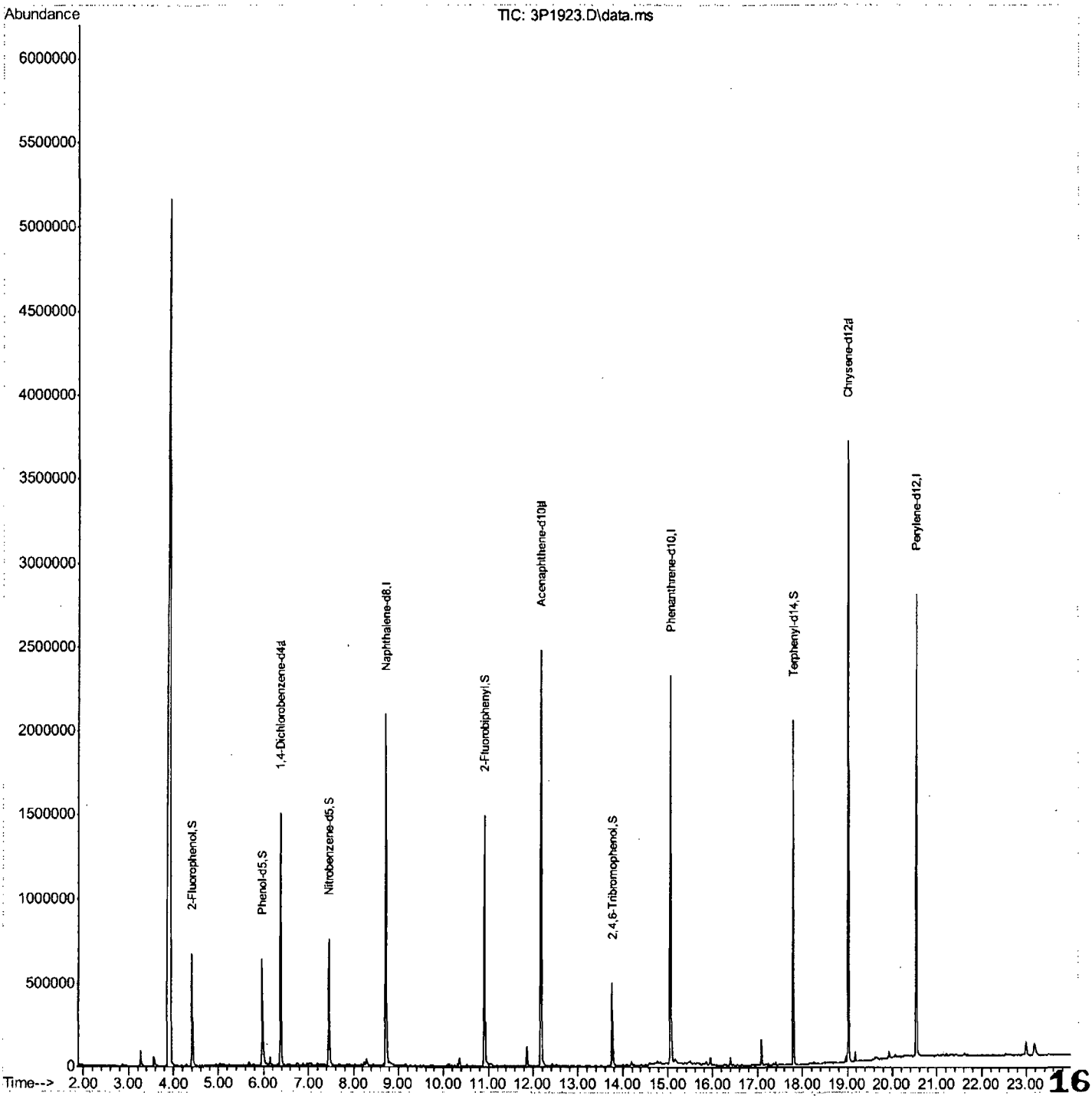
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1923.D
Acq On : 6 Jan 2011 1:21 pm
Operator : kristis
Sample : ja58900-1
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 07 15:06:46 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1931.D
Acq On : 6 Jan 2011 5:14 pm
Operator : kristis
Sample : ja58900-2
Misc : op46332,e3p93,35.0,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 07 15:11:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

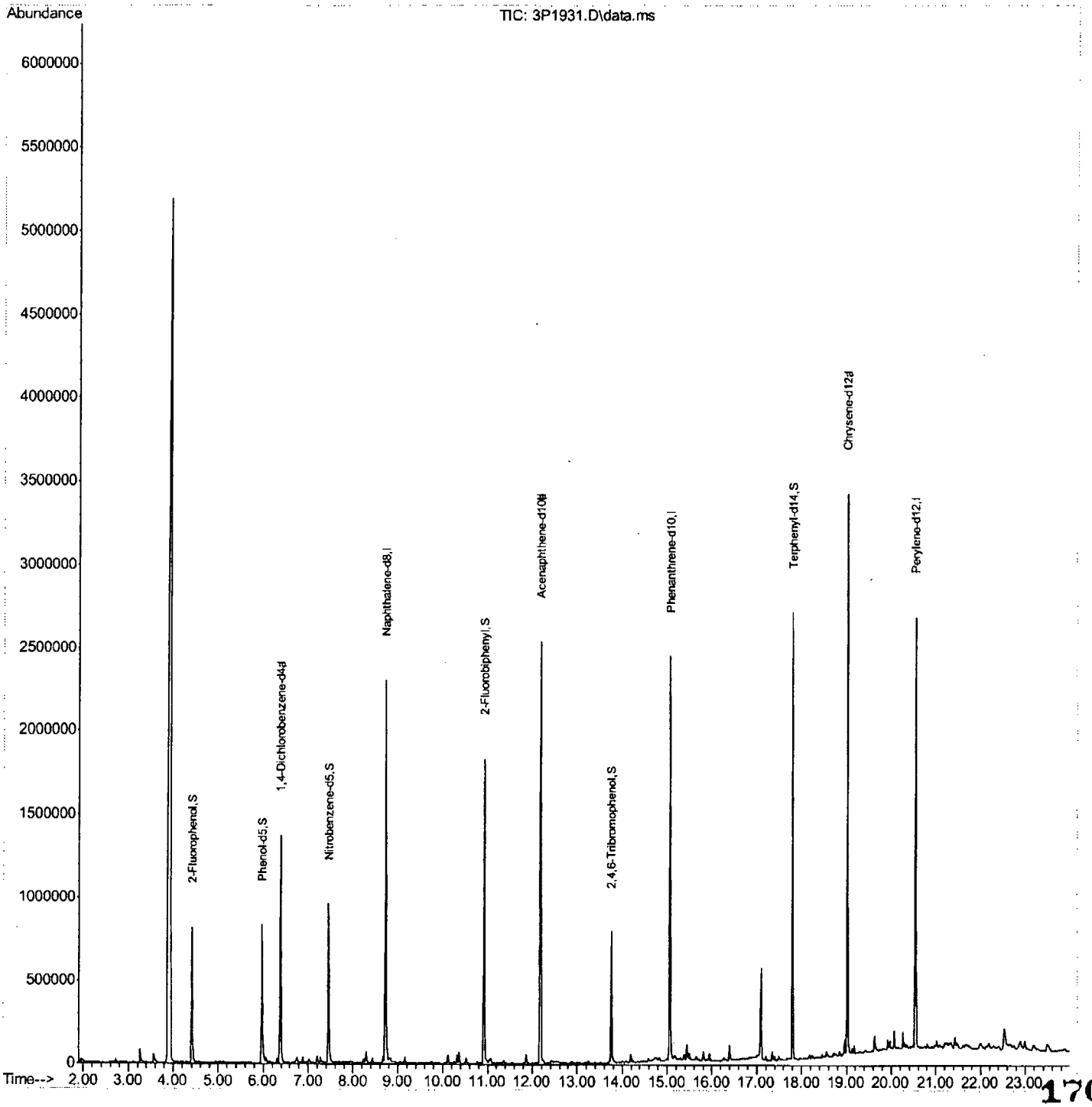
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	277003	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1404879	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	829654	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1320606	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1316950	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1098000	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	6.385	152	277003	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	829654	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1316950	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	829654	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.412	112	317532	34.64 ppb	0.02
Spiked Amount 50.000			Recovery = 69.28%		
8) Phenol-d5	5.973	99	391319	32.53 ppb	0.01
Spiked Amount 50.000			Recovery = 65.06%		
25) Nitrobenzene-d5	7.450	82	417567	28.99 ppb	0.00
Spiked Amount 50.000			Recovery = 57.98%		
51) 2-Fluorobiphenyl	10.921	172	829000	31.89 ppb	0.00
Spiked Amount 50.000			Recovery = 63.78%		
73) 2,4,6-Tribromophenol	13.761	330	149166	34.46 ppb	0.00
Spiked Amount 50.000			Recovery = 68.92%		
85) Terphenyl-d14	17.799	244	824061	44.78 ppb	0.00
Spiked Amount 50.000			Recovery = 89.56%		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1931.D
Acq On : 6 Jan 2011 5:14 pm
Operator : kristis
Sample : ja58900-2
Misc : op46332,e3p93,35.0,,,1,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 07 15:11:35 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1924.D
Acq On : 6 Jan 2011 1:50 pm
Operator : kristis
Sample : ja58900-3
Misc : op46332,e3p93,35.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:07:16 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	0.000	152	0	0.00 ppb	-6.38
24) Naphthalene-d8	0.000	136	0	0.00 ppb	-8.73
47) Acenaphthene-d10	12.172	164	20060	40.00 ppb	0.00
69) Phenanthrene-d10	15.061	188	761646	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1183257	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1018833	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	0.000	152	0	0.00 ppb	-6.38
104) Acenaphthene-d10a	12.172	164	20060	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1183257	40.00 ppb	0.00
110) Acenaphthene-d10b	12.172	164	20060	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	13.766	330	93808	37.58 ppb	0.00
Spiked Amount 50.000			Recovery	= 75.16%	
85) Terphenyl-d14	17.799	244	744706	45.04 ppb	0.00
Spiked Amount 50.000			Recovery	= 90.08%	

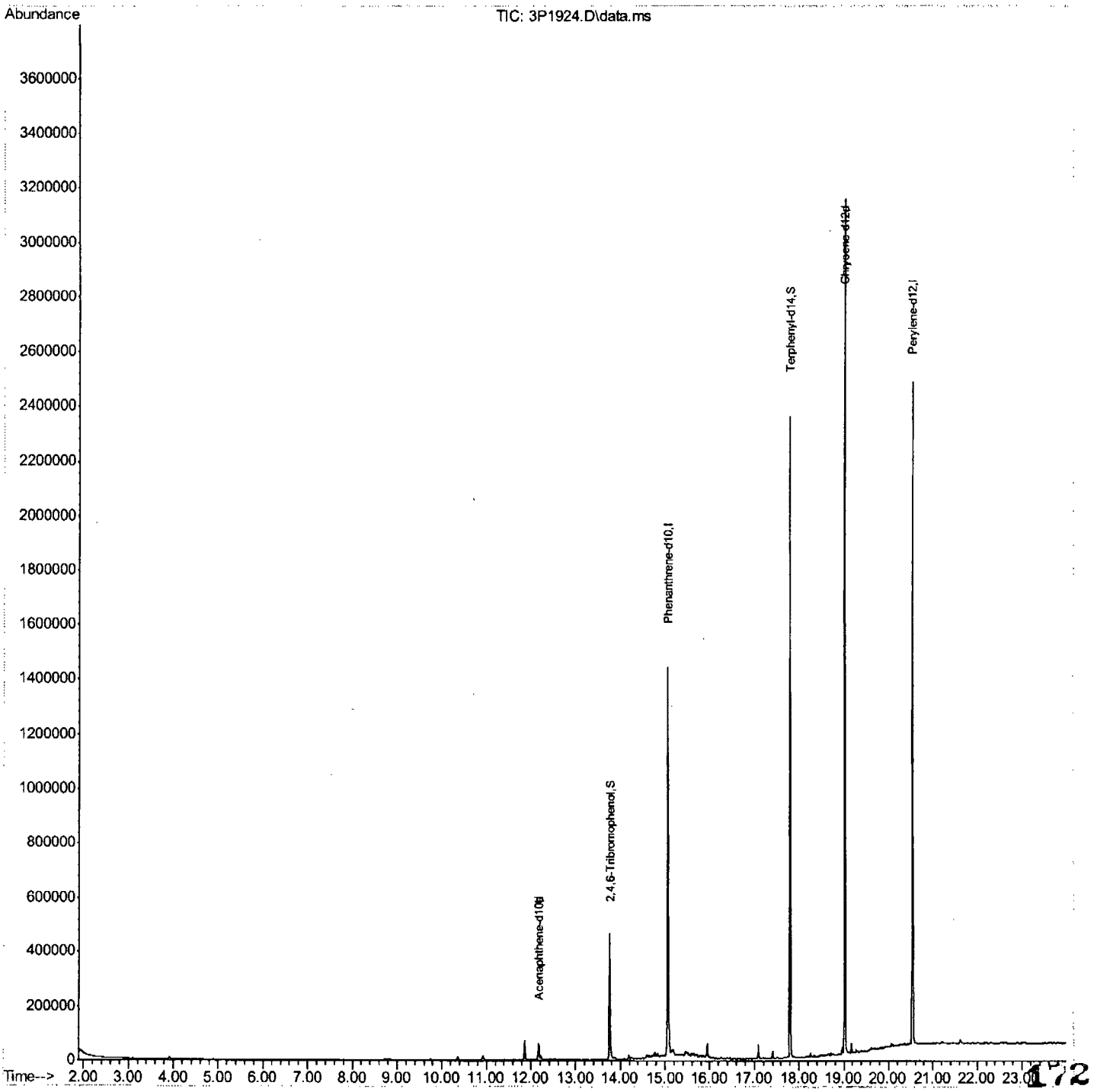
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1924.D
Acq On : 6 Jan 2011 1:50 pm
Operator : kristis
Sample : ja58900-3
Misc : op46332,e3p93,35.0,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 07 15:07:16 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1932.D
Acq On : 6 Jan 2011 5:43 pm
Operator : kristis
Sample : ja58900-4
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 07 15:12:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	341406	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1430305	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	837823	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1342036	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1229255	40.00 ppb	0.00
92) Perylene-d12	20.548	264	988064	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	6.385	152	341406	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	837823	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1229255	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	837823	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.417	112	314886	27.87 ppb	0.03
Spiked Amount 50.000			Recovery = 55.74%		
8) Phenol-d5	5.973	99	397740	26.83 ppb	0.01
Spiked Amount 50.000			Recovery = 53.66%		
25) Nitrobenzene-d5	7.449	82	416610	28.41 ppb	0.00
Spiked Amount 50.000			Recovery = 56.82%		
51) 2-Fluorobiphenyl	10.921	172	835900	31.84 ppb	0.00
Spiked Amount 50.000			Recovery = 63.68%		
73) 2,4,6-Tribromophenol	13.766	330	165065	37.53 ppb	0.00
Spiked Amount 50.000			Recovery = 75.06%		
85) Terphenyl-d14	17.799	244	912129	53.10 ppb	0.00
Spiked Amount 50.000			Recovery = 106.20%		

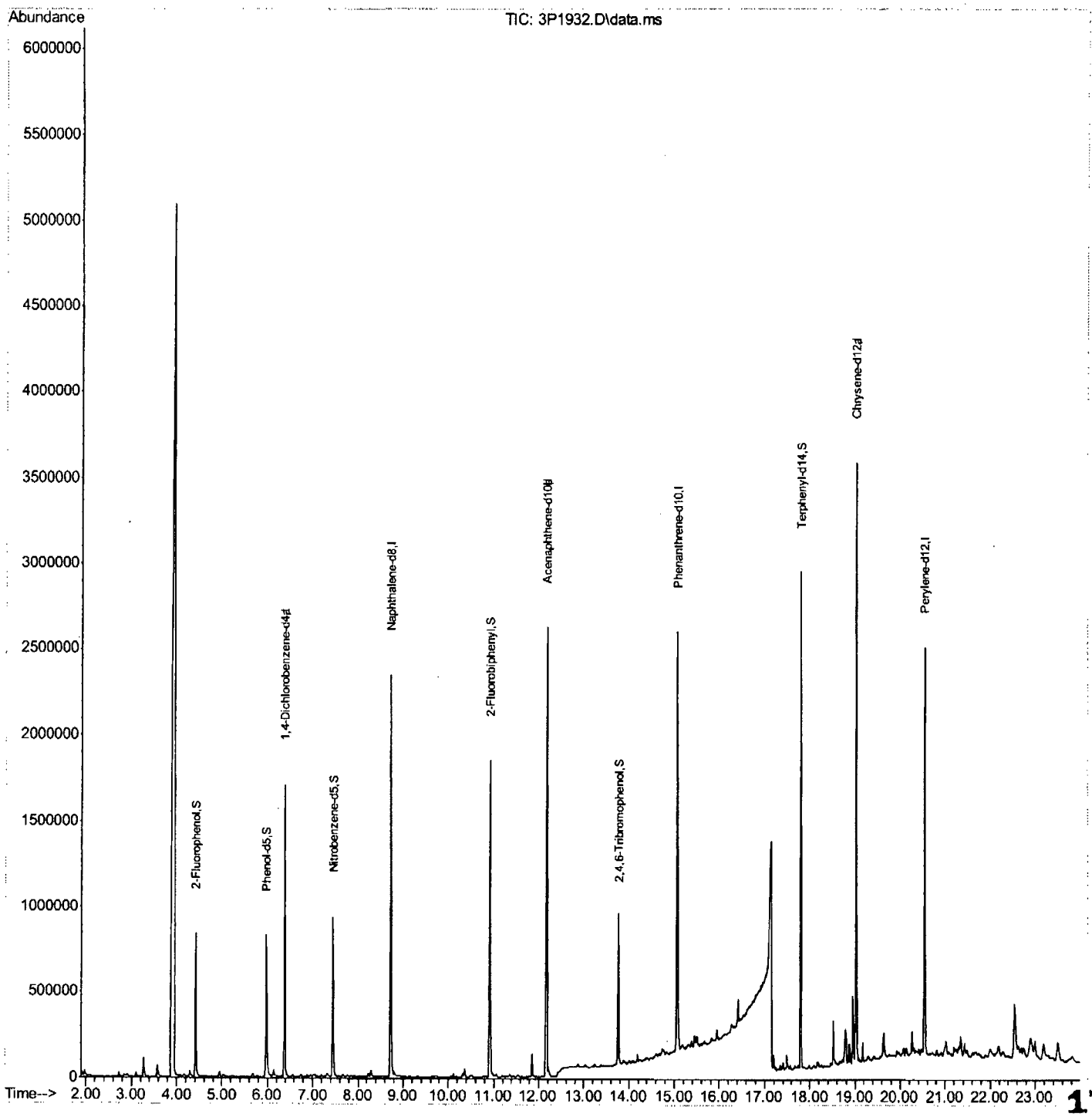
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1932.D
Acq On : 6 Jan 2011 5:43 pm
Operator : kristis
Sample : ja58900-4
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 07 15:12:13 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1925.D
Acq On : 6 Jan 2011 2:19 pm
Operator : kristis
Sample : ja58900-7
Misc : op46332,e3p93,35.3,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:07:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	0.000	152	0	0.00 ppb	-6.38
24) Naphthalene-d8	0.000	136	0	0.00 ppb	-8.73
47) Acenaphthene-d10	12.172	164	267686	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1124875	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1370727	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1163892	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	0.000	152	0	0.00 ppb	-6.38
104) Acenaphthene-d10a	12.172	164	267686	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1370727	40.00 ppb	0.00
110) Acenaphthene-d10b	12.172	164	267686	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0d	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	10.915	172	70708	8.43 ppb	0.00
Spiked Amount 50.000			Recovery	= 16.86%	
73) 2,4,6-Tribromophenol	13.761	330	100548	27.27 ppb	0.00
Spiked Amount 50.000			Recovery	= 54.54%	
85) Terphenyl-d14	17.799	244	615674	32.14 ppb	0.00
Spiked Amount 50.000			Recovery	= 64.28%	

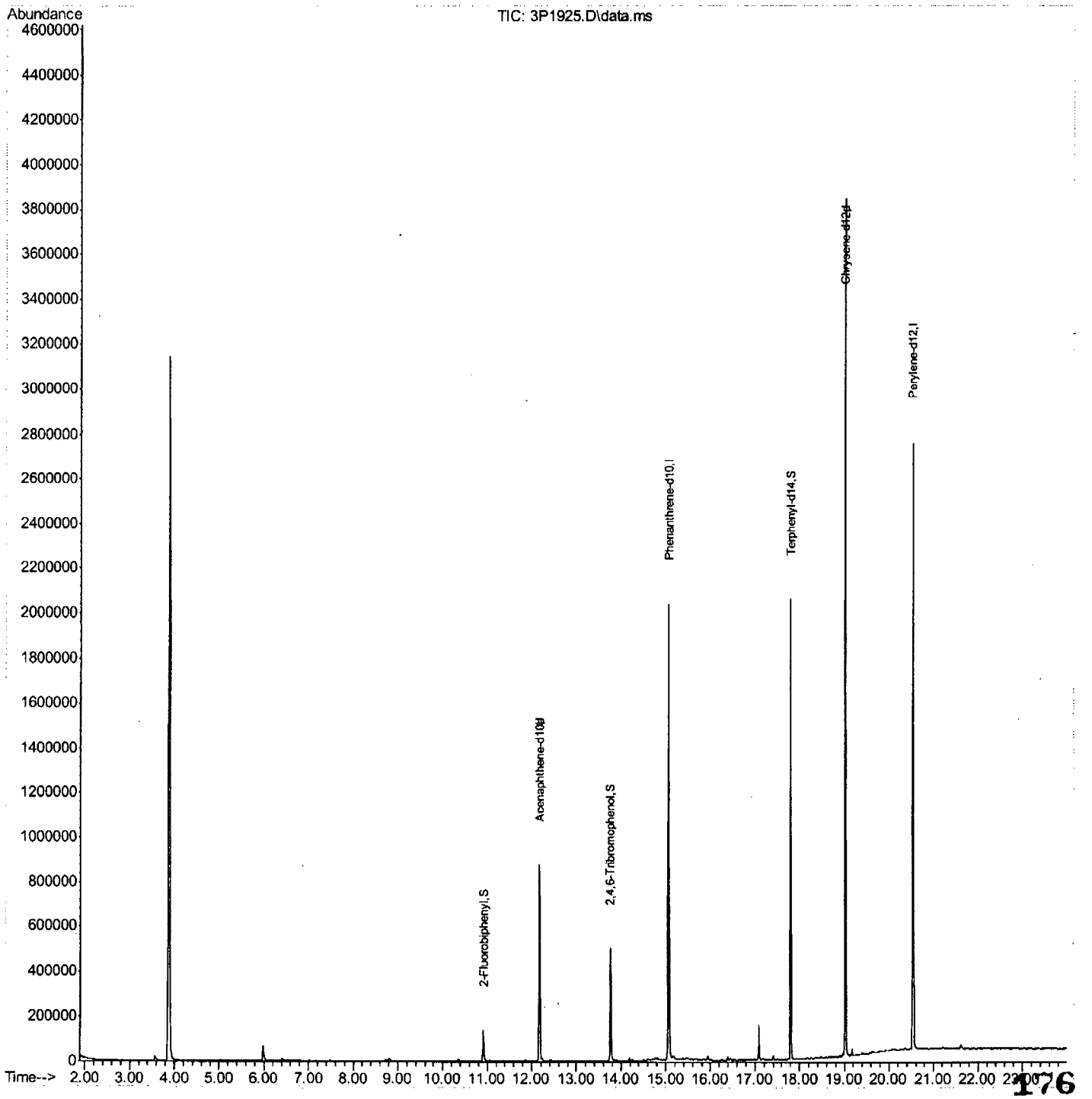
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1925.D
Acq On : 6 Jan 2011 2:19 pm
Operator : kristis
Sample : ja58900-7
Misc : op46332,e3p93,35.3,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 07 15:07:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1928.D
Acq On : 6 Jan 2011 3:47 pm
Operator : kristis
Sample : ja58900-8
Misc : op46332,e3p93,35.4,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:09:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	259748	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1253982	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	730851	40.00 ppb	0.00
69) Phenanthrene-d10	15.060	188	1143280	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1213724	40.00 ppb	0.00
92) Perylene-d12	20.543	264	1021985	40.00 ppb	0.00
102) 1,4-Dichlorobenzene-d4a	6.385	152	259748	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	730851	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1213724	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	730851	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.411	112	272530	31.70 ppb	0.02
Spiked Amount 50.000			Recovery = 63.40%		
8) Phenol-d5	5.973	99	338457	30.01 ppb	0.01
Spiked Amount 50.000			Recovery = 60.02%		
25) Nitrobenzene-d5	7.449	82	361835	28.15 ppb	0.00
Spiked Amount 50.000			Recovery = 56.30%		
51) 2-Fluorobiphenyl	10.921	172	667183	29.13 ppb	0.00
Spiked Amount 50.000			Recovery = 58.26%		
73) 2,4,6-Tribromophenol	13.761	330	119822	31.98 ppb	0.00
Spiked Amount 50.000			Recovery = 63.96%		
85) Terphenyl-d14	17.799	244	717770	42.32 ppb	0.00
Spiked Amount 50.000			Recovery = 84.64%		

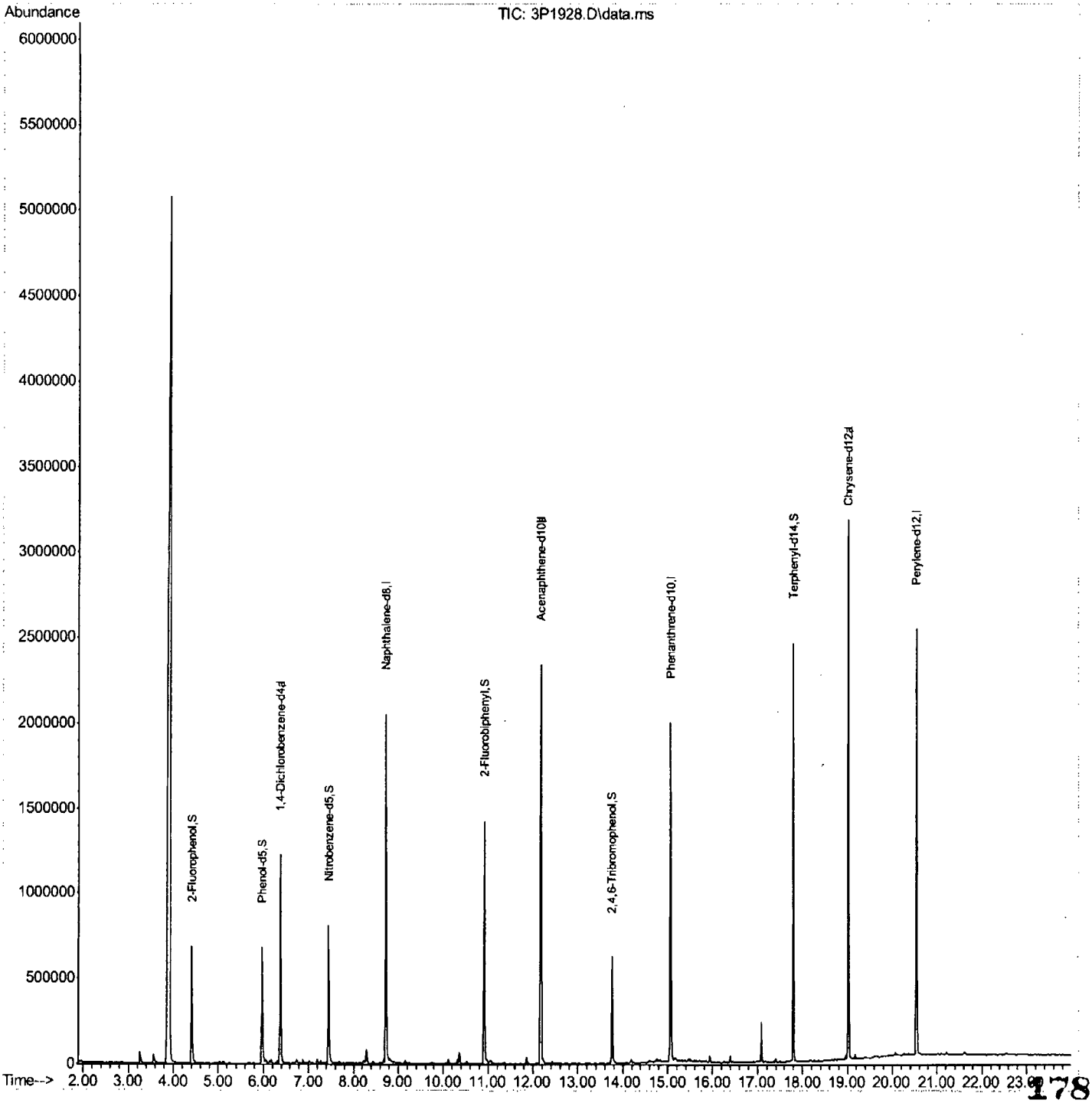
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1928.D
Acq On : 6 Jan 2011 3:47 pm
Operator : kristis
Sample : ja58900-8
Misc : op46332,e3p93,35.4,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 07 15:09:27 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1926.D
Acq On : 6 Jan 2011 2:48 pm
Operator : kristis
Sample : ja58900-9
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:08:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	235101	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1241305	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	719452	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1168307	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1260357	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1056639	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	6.385	152	235101	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	719452	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1260357	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	719452	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.406	112	289340	37.19 ppb	0.02
Spiked Amount 50.000			Recovery = 74.38%		
8) Phenol-d5	5.973	99	361436	35.40 ppb	0.01
Spiked Amount 50.000			Recovery = 70.80%		
25) Nitrobenzene-d5	7.450	82	381623	29.99 ppb	0.00
Spiked Amount 50.000			Recovery = 59.98%		
51) 2-Fluorobiphenyl	10.921	172	739761	32.81 ppb	0.00
Spiked Amount 50.000			Recovery = 65.62%		
73) 2,4,6-Tribromophenol	13.761	330	130182	34.00 ppb	0.00
Spiked Amount 50.000			Recovery = 68.00%		
85) Terphenyl-d14	17.799	244	746526	42.39 ppb	0.00
Spiked Amount 50.000			Recovery = 84.78%		

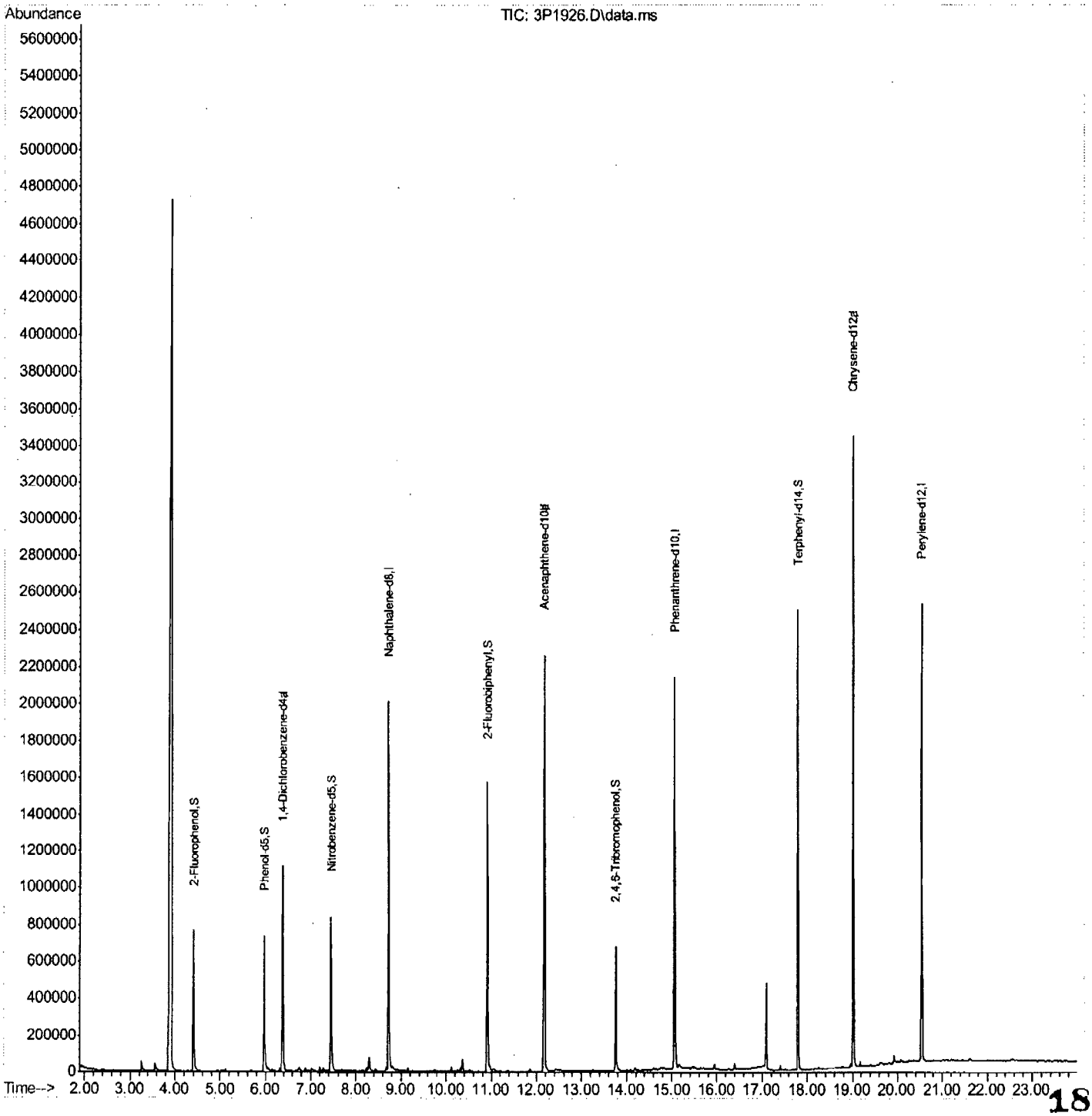
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1926.D
Acq On : 6 Jan 2011 2:48 pm
Operator : kristis
Sample : ja58900-9
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 07 15:08:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1933.D
Acq On : 6 Jan 2011 6:12 pm
Operator : kristis
Sample : ja58900-10
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 07 15:13:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	293354	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1376641	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	803177	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1235822	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1160526	40.00 ppb	0.00
92) Perylene-d12	20.543	264	965588	40.00 ppb	0.00
102) 1,4-Dichlorobenzene-d4a	6.385	152	293354	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	803177	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1160526	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	803177	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.411	112	362788	37.37 ppb	0.02
Spiked Amount 50.000			Recovery	= 74.74%	
8) Phenol-d5	0.000	99	0d	0.00 ppb	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	7.455	82	475285	33.68 ppb	0.00
Spiked Amount 50.000			Recovery	= 67.36%	
51) 2-Fluorobiphenyl	10.921	172	949721	37.74 ppb	0.00
Spiked Amount 50.000			Recovery	= 75.48%	
73) 2,4,6-Tribromophenol	13.761	330	165311	40.81 ppb	0.00
Spiked Amount 50.000			Recovery	= 81.62%	
85) Terphenyl-d14	17.799	244	863389	53.24 ppb	0.00
Spiked Amount 50.000			Recovery	= 106.48%	

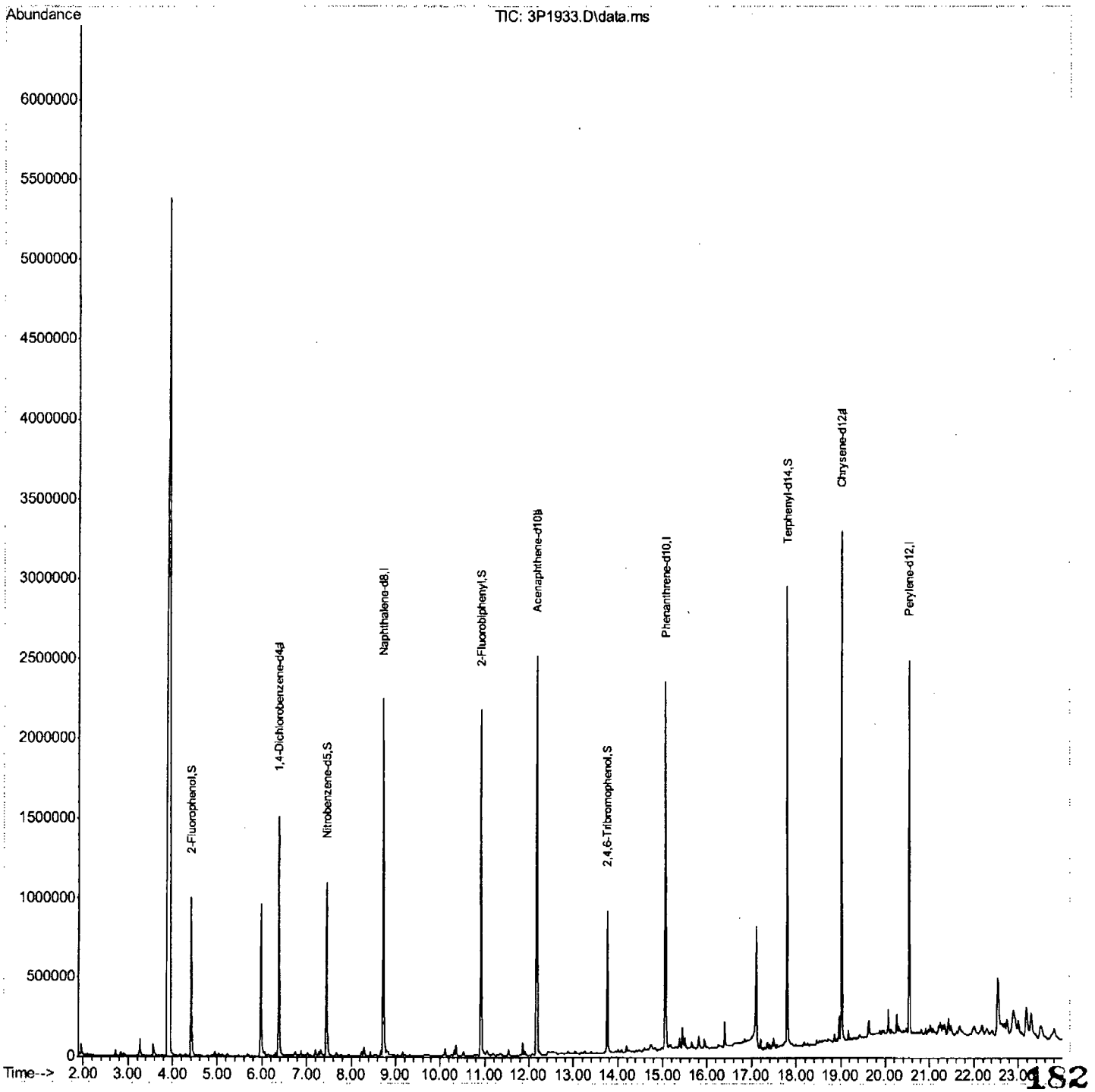
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1933.D
Acq On : 6 Jan 2011 6:12 pm
Operator : kristis
Sample : ja58900-10
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 07 15:13:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1929.D
Acq On : 6 Jan 2011 4:16 pm
Operator : kristis
Sample : ja58900-11
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:10:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.385	152	31825	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	868367	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	722030	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1241335	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1311290	40.00 ppb	0.00
92) Perylene-d12	20.543	264	1104103	40.00 ppb	0.00
102) 1,4-Dichlorobenzene-d4a	6.385	152	31825	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	722030	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1311290	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	722030	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.406	112	223167	211.88 ppb	0.02
Spiked Amount 50.000			Recovery = 423.76%		
8) Phenol-d5	5.968	99	284749	206.04 ppb	0.00
Spiked Amount 50.000			Recovery = 412.08%		
25) Nitrobenzene-d5	7.450	82	229222	25.75 ppb	0.00
Spiked Amount 50.000			Recovery = 51.50%		
51) 2-Fluorobiphenyl	10.915	172	537049	23.74 ppb	0.00
Spiked Amount 50.000			Recovery = 47.48%		
73) 2,4,6-Tribromophenol	13.761	330	119073	29.27 ppb	0.00
Spiked Amount 50.000			Recovery = 58.54%		
85) Terphenyl-d14	17.799	244	643400	35.11 ppb	0.00
Spiked Amount 50.000			Recovery = 70.22%		

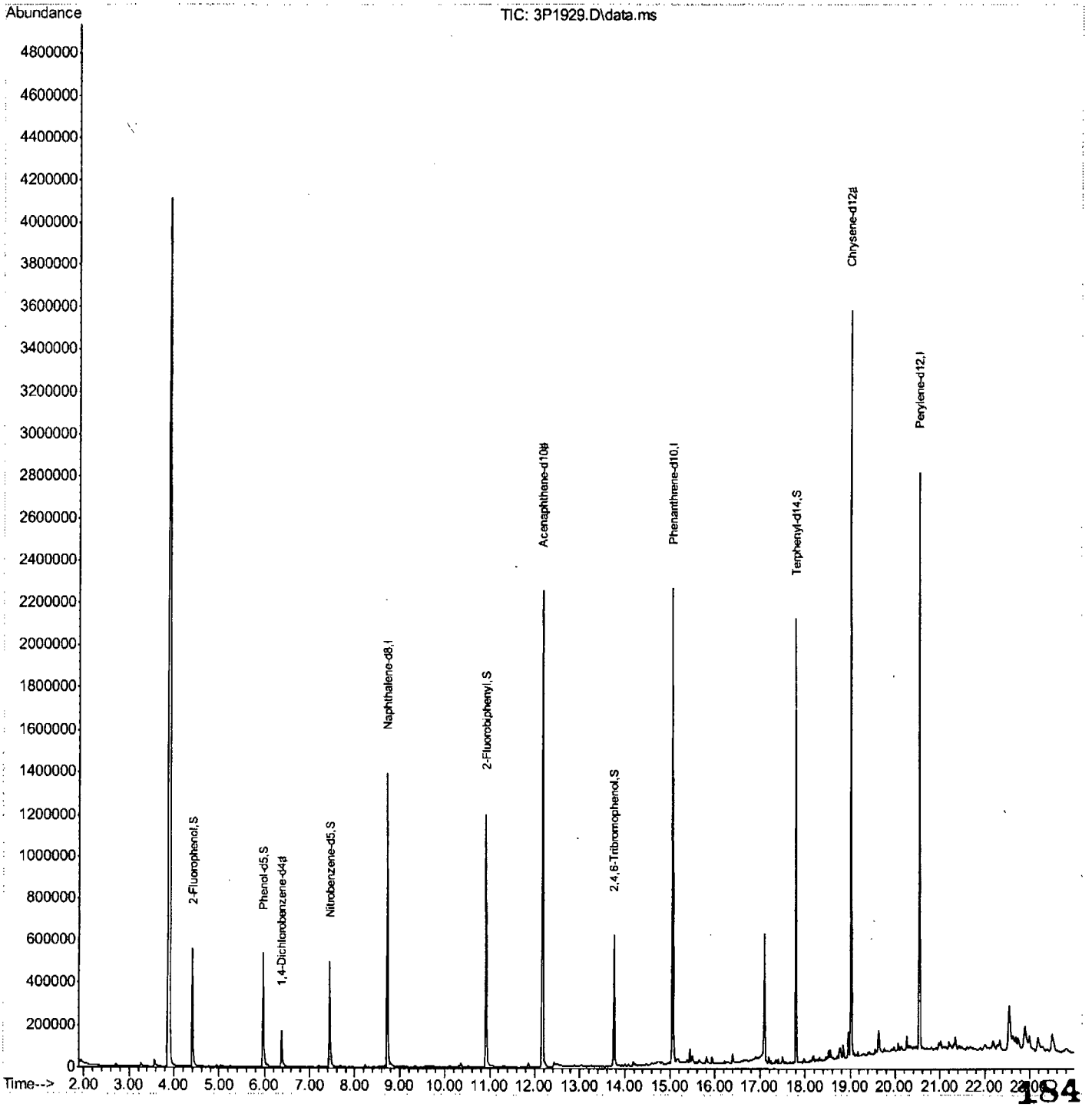
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1929.D
Acq On : 6 Jan 2011 4:16 pm
Operator : kristis
Sample : ja58900-11
Misc : op46332,e3p93,35.2,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 07 15:10:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



M3P70.M Fri Jan 21 13:44:53 2011 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1927.D
Acq On : 6 Jan 2011 3:18 pm
Operator : kristis
Sample : ja58900-12
Misc : op46332,e3p93,35.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:08:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	0.000	152	0	0.00 ppb	-6.38
24) Naphthalene-d8	8.728	136	210009	40.00 ppb	0.00
47) Acenaphthene-d10	12.172	164	601479	40.00 ppb	0.00
69) Phenanthrene-d10	15.066	188	1168427	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1296465	40.00 ppb	0.00
92) Perylene-d12	20.548	264	1106871	40.00 ppb	0.01
102) 1,4-Dichlorobenzene-d4a	0.000	152	0	0.00 ppb	-6.38
104) Acenaphthene-d10a	12.172	164	601479	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1296465	40.00 ppb	0.00
110) Acenaphthene-d10b	12.172	164	601479	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.406	112	155291	0.00 ppb	0.02
Spiked Amount 50.000			Recovery =	0.00%	
8) Phenol-d5	5.968	99	287078	0.00 ppb	0.00
Spiked Amount 50.000			Recovery =	0.00%	
25) Nitrobenzene-d5	7.455	82	60098	27.91 ppb	0.00
Spiked Amount 50.000			Recovery =	55.82%	
51) 2-Fluorobiphenyl	10.915	172	427988	22.71 ppb	0.00
Spiked Amount 50.000			Recovery =	45.42%	
73) 2,4,6-Tribromophenol	13.761	330	125658	32.81 ppb	0.00
Spiked Amount 50.000			Recovery =	65.62%	
85) Terphenyl-d14	17.799	244	853748	47.13 ppb	0.00
Spiked Amount 50.000			Recovery =	94.26%	

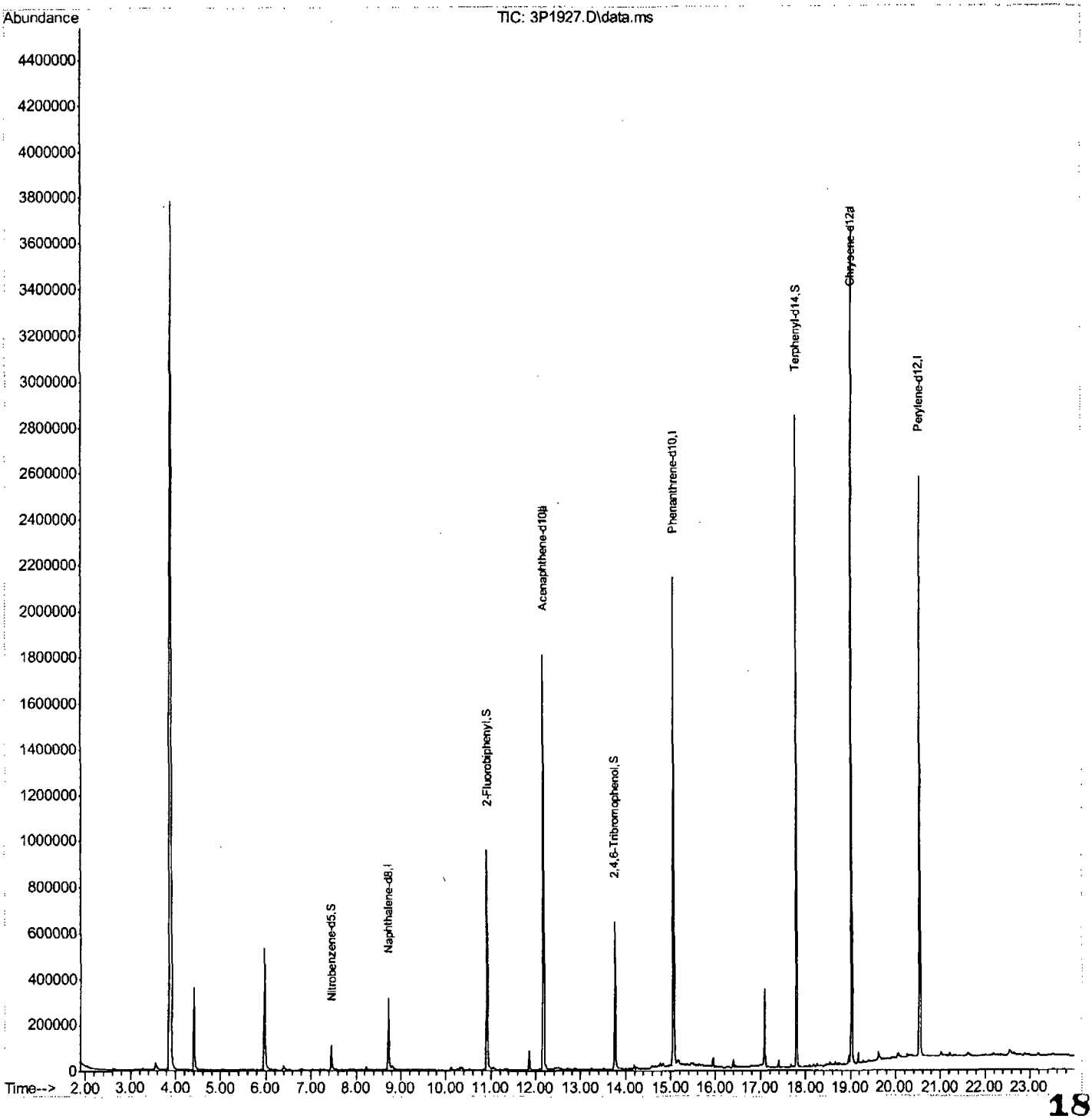
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1927.D
Acq On : 6 Jan 2011 3:18 pm
Operator : kristis
Sample : ja58900-12
Misc : op46332,e3p93,35.3,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 07 15:08:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1930.D
Acq On : 6 Jan 2011 4:45 pm
Operator : kristis
Sample : ja58900-14
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 07 15:10:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	6.380	152	163291	40.00 ppb	0.00
24) Naphthalene-d8	8.728	136	1151260	40.00 ppb	0.00
47) Acenaphthene-d10	12.178	164	710191	40.00 ppb	0.00
69) Phenanthrene-d10	15.061	188	1165059	40.00 ppb	0.00
83) Chrysene-d12	19.029	240	1193017	40.00 ppb	0.00
92) Perylene-d12	20.543	264	1013286	40.00 ppb	0.00
102) 1,4-Dichlorobenzene-d4a	6.380	152	163291	40.00 ppb	0.00
104) Acenaphthene-d10a	12.178	164	710191	40.00 ppb	0.00
106) Chrysene-d12a	19.029	240	1193017	40.00 ppb	0.00
110) Acenaphthene-d10b	12.178	164	710191	40.00 ppb	0.00
System Monitoring Compounds					
5) 2-Fluorophenol	4.406	112	257515	47.65 ppb	0.02
Spiked Amount 50.000			Recovery =	95.30%	
8) Phenol-d5	5.973	99	332437	46.88 ppb	0.01
Spiked Amount 50.000			Recovery =	93.76%	
25) Nitrobenzene-d5	7.449	82	322398	27.32 ppb	0.00
Spiked Amount 50.000			Recovery =	54.64%	
51) 2-Fluorobiphenyl	10.915	172	639053	28.72 ppb	0.00
Spiked Amount 50.000			Recovery =	57.44%	
73) 2,4,6-Tribromophenol	13.761	330	123762	32.41 ppb	0.00
Spiked Amount 50.000			Recovery =	64.82%	
85) Terphenyl-d14	17.799	244	701107	42.06 ppb	0.00
Spiked Amount 50.000			Recovery =	84.12%	

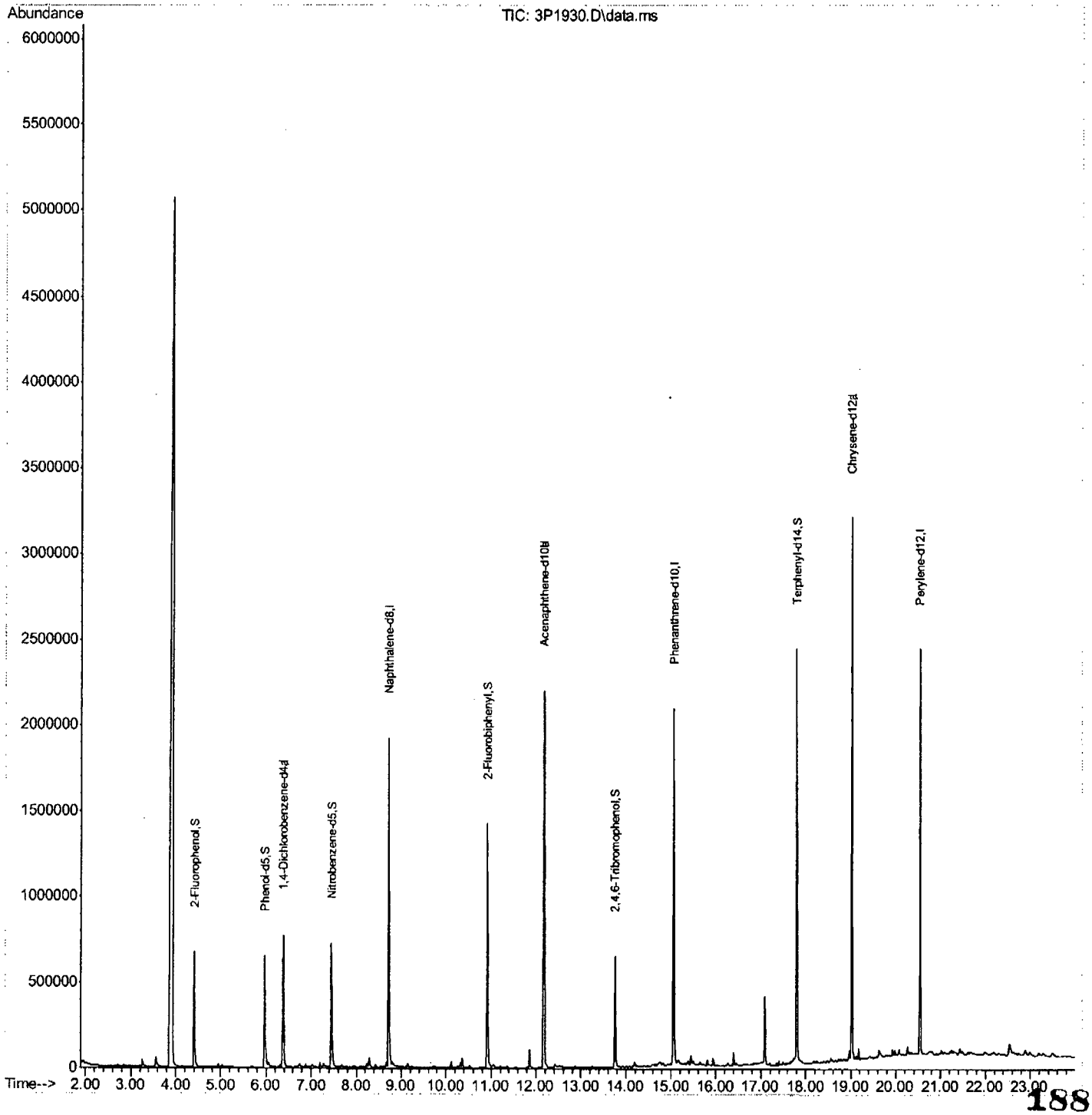
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\93\
Data File : 3P1930.D
Acq On : 6 Jan 2011 4:45 pm
Operator : kristis
Sample : ja58900-14
Misc : op46332,e3p93,35.1,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 07 15:10:43 2011
Quant Method : C:\MSDCHEM\1\METHODS\M3P70.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jan 04 11:16:02 2011
Response via : Initial Calibration



ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: ESP70

Date: 12-11-10

Analyst Signature: [illegible]

Columns: HP5-MS 30m x .25mm x .25u

Method: 8270/625

Initial Cal. Method: MSP70

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SW0521155A	BNA	100,000
SW0521155B		50,000
SW0521155C		50,000
SW0521155D		20,000
SW0521155E		10,000
SW0521155F		5,000

Standard Data

Lot #	Description	Conc.
SW0521131	DFTPP	50,000
SW0521156	BNA	2,000
SW0521134	↓	1,000
N573	MS Mixture	—
CF575	IS+SM	40,000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 12-13-10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P1455	DFTPP			W	1					ok	5.55 sec
	1456	IC70-100			W	2					ok	
	1457	IC70-80			W	3					ok	
	1458	IC70-50			W	4					ok	
	1459	IC70-25			W	5					ok	
	1460	IC70-10			W	6					ok	
	1461	IC70-5			W	7					ok	
	1462	IC70-2			W	8					ok	
	1463	IC70-1			W	9					ok	

TX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

ample volume/weight used and final volumes refer to extraction log.

ll strikeouts must be initialed, dated and reason code applied as follows:
= reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

orm: OR015-05
ev. Date: 1/16/2006

ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3P71

Date: 12-11-10

Analyst Signature: [illegible]

Columns: [illegible]

Method 8270/625

Initial Cal. Method [illegible]

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
SUIO 644-141	1642	100ppm
SUIO 644-148		50ppm
SUIO 644-146		50ppm
SUIO 644-147		25ppm
SUIO 644-145		10ppm
SUIO 644-144		5ppm

Standard Data

Lot #	Description	Conc.
SUIO 521-131	DF-TPP	50ppm
SUIO 644-146	1642	2ppm
SUIO 644-144	+	1ppm
DY533	[illegible]	—
[illegible]	N+SM	[illegible]

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 12-13-10

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P1454	DF-TPP			W	1					ok	2:32pm
	1455	1671-100			W	10					ok	
	1456	1626-50 ~~1671-100~~ R 12/1/10			W	11					ok	
	1457	1671-50			W	12					ok	
	1458	1671-25			W	13					ok	
	1459	1671-10			W	14					ok	
	1500	1671-5			W	15					ok	
	1501	1671-2			W	16					ok	
	1502	1671-1			W	17					ok	
	1503	1670-50	Acid 2nd source		W	18					ok	OP10-SU-60
	1504	1670-50	BL#1		W	19					ok	OP10-SU-40
	1505	1670-50	BL#2		W	20					ok	OP10-SU-66
	1506	1670-50	2nd source		W	21					ok	SU10-521-94
	1507	1670-50	Baseline		W	22					ok	SU10-521-96

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample volume/weight used and final volumes refer to extraction log.

51

All strikeouts must be initialed, dated and reason code applied as follows:
1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

190

Form: OR015-05
Rev. Date: 1/16/2006

ACCUTEST.

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID: E3P53

Date: 1-6-11

Analyst Signature: [illegible]

Columns: HP5-MS 30m x .25mm x .25u

Method: 8270/625

Initial Cal. Method: 13P70

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
5410-521-110C	Aromatics 5	5ppm
5410-521-110G	↓	2ppm

Standard Data

Lot #	Description	Conc.
5410-521-31	DFTPP	50ppm
5410-604-31	BUA	25ppm
[illegible]	1,4,4,2	50ppm
DD161	1,4,1 Hexanedial	—
CC015	hT SPL	400ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 1-6-11

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P1918	DFTPP			W	1					ok	RT:4.44min
	1919	CC70-25	BUA		W	2					ok	Hexachlorobutadiene Bis High
	1920	CC71-50	1,4,4,2		W	3					ok	
	1921	CC93-5	APS		W	4					ok	
	1922	CC93-2	APS		W	5					ok	reference only
	1923	SA58900-1	463321	AP952	S	6					ok	
	1924	-3				7					ok	
	1925	-7				8					ok	
	1926	-9				9					ok	
	1927	-12				10					ok	
	1928	-8				11					ok	
	1929	-11				12					ok	
	1930	-14				13					ok	
	1931	-2				14					ok	
	1932	-4				15					ok	
	1933	-10				16					ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

[illegible] 1/11

Sample volume/weight used and final volumes refer to extraction log.

119

All strikeouts must be initialed, dated and reason code applied as follows:
1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

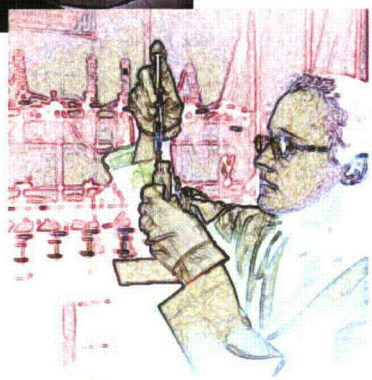
191

Form: OR015-05

Environmental Laboratory Report

UNE - BBNPP

SDGs: AE101015
AE101019



Report To:

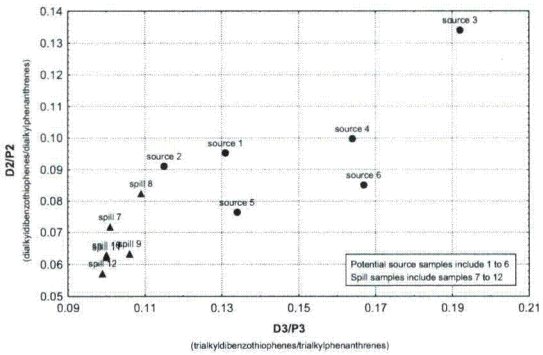
AECOM Environment
2 Technology Park Drive
Westford, MA 01886

Report By:

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472

November 5, 2010

Figure 1. Double Ratio Plot



Identifying and allocating sources of pollutants in complex environments.

META Environmental, Inc.
ENGINEERING & CHEMISTRY

Final Laboratory Report – Level IV

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472
Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

New York Certification Number: 11886

Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Release of the data contained in this data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

James A. Roush — Date: November 5, 2010
Environmental Scientist, Laboratory Manager

David M. Mauro — Date: November 5, 2010
Senior Scientist, Quality Assurance Officer

Sample Delivery Group Narrative

Project: UNE – BBNPP

Client AECOM Environment
2 Technology Park Drive
Westford, MA 01886

Report Contact: Dion Lewis

Dates of Receipt: October 15th and 19th of 2010

Sample Summary: The samples received for this project are summarized in the attached sample login forms in Appendix A.

META Project Number: A21010

SDG No.: AE101015, AE101019

Total Pages in Report: 451

Chain of Custody

The samples were received in good condition. The internal temperature of the shipping container was within the recommended 0-6°C range and was as follows:

Samples received:	10/15/2010	0°C	Ice present
	10/19/2010	0°C	Ice present

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

Methods

All sediment samples were prepared by solvent extraction (EPA 3570) using dichloromethane. The water samples were prepared by liquid/liquid solvent extraction (EPA 3511) also using DCM. The extracts were spiked with internal standard and analyzed by GC/MS/SIM (EPA 8270M) for organic lead species.

Results

Sample results are presented in several appendices, which follow this narrative.

Appendix B: Sample Data Summary
Appendix C: Raw Data
Appendix D: Calibration
Appendix E: Miscellaneous Documentation

Quality Control

Analyte Flags

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter "U."

Holding Times

There is no EPA regulated holding time for organic lead compounds. All samples were extracted from six to eight days from the date of collection. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

Surrogate Spikes

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

Blanks

No target compounds were detected in any of the three batch method blanks.

Blank Spikes

A blank spike sample was extracted with the analytical batch. The spiked compound was recovered within the 43% - 101 % acceptable criteria in QC101020-SBS. Results could not be reported for the blank spike associated with the 2nd sediment analytical batch as it was lost during extraction due to broken glassware.

Matrix Spikes

Samples BBNPP-CW5-C, BBNPP-R-C, and BBNPP-PB were processed with matrix spike/matrix spike duplicate (MS/MSD) quality control samples. The spiked compound for the two sediment MS/MSD sets was recovered within the 43% - 101 % acceptable criteria. The spiked compound for the water MS/MSD set was recovered within the 60% - 120 % acceptable criteria.

Internal Standards

Internal standards were recovered within acceptable QC lim its (50%-200%) relative to the preceeding continuing calibration verification (CCV) standard .

Appendix A

Chain of Custody

CHAIN OF CUSTODY RECORD

1 of 3

PROJECT UNE BGNPP
CONTACT DION LEWIS
COMPANY AECOM
ADDRESS

EMAIL DION.LEWIS@AECOM
PHONE 978-559-3058 **FAX**
SAMPLED BY
Print Name Mike Hiser Sign

Turn Around Time
Standard ☑
If Authorized *
1 Week ☐
Other ☐

META Environmental, Inc.
49 Clarendon St. - Watertown, Massachusetts - 02472
Tel (617) 923-4662 - Fax (617) 923-4610 - www.metaenv.com

Parameters

Samp #	Date	Time	Field Sample ID	Container Size	Container G/P	Grab	Composite	# of Containers	Matrix	Preserv.	TE LEAD									Comments
1	10/12/10	10:26	BGNPP-CW1-C	120z	G		X	1	SD	ICE	X					AE101015-01				
2	10/12/10	11:10	BGNPP-CW2-C				X	1			X								-02	
3	10/12/10	12:02	BGNPP-CW3-C				X	1			X								-03	
4	10/12/10	12:40	BGNPP-CW6-C				X	1			X								-04	
5	10/12/10	14:23	BGNPP-CW9-C				X	1			X								-05	
6	10/12/10	14:23	BGNPP-CW9-C-FD				X	1			X								—	~~[illegible]~~
7	10/12/10	14:51	BGNPP-CW12-C				X	1			X								-06	not sent yet will be
8	10/12/10	15:44	BGNPP-CW15-C				X	1			X								—	
9	10/12/10	16:11	BGNPP-CW18-C				X	1			X								—	sent in separate
10	10/12/10	16:29	BGNPP-CW21-C				X	1			X								—	cooler
11	10/13/10	08:25	BGNPP-CW5-C				X	1			X								-07A	
12	10/13/10	08:25	BGNPP-CW5-C-MS				X	1			X								-07B	
13	10/13/10	08:25	BGNPP-CW5-C-MSD				X	1			X								-07C	
14	10/13/10	08:55	BGNPP-CW8-C				X	1			X								-08	
15	10/13/10	09:25	BGNPP-CW11-C				X	1			X								-09	

Relinquished by	Date & Time	Relinquished by	Date & Time	Relinquished by	Date & Time
[signature]	10/14/10 16:30				
Received by	**Date & Time**	**Received by**	**Date & Time**	**Received by**	**Date & Time**
[signature]	10/15/10 9:30				

Shipping Info.

Remarks

Temp °C 0

* Surcharges may apply

CHAIN OF CUSTODY RECORD

COC 5

PROJECT UNE BBNPP
CONTACT DION LEWIS
COMPANY AECOM
ADDRESS

EMAIL DION.LEWIS@AECOM.COM
PHONE 978-589-3056 **FAX**

SAMPLED BY
Print Name M. Ke Hauser Sign

Turn Around Time
Standard ☒
If Authorized *
1 Week ☐
Other ☐

META Environmental, Inc.
49 Clarendon St. - Watertown, Massachusetts - 02472
Tel (617) 923-4662 - Fax (617) 923-4610 - www.metaenv.com

Parameters

Samp #	Date	Time	Field Sample ID	Container Size	Container G/P	Grab	Composite	# of Containers	Matrix	Preserv.	TI-LEAD								Comments
16	10/13/10	10:00	BBNPP-CW19-C	120 mL	G		X		SD	ICE	X								AE10105-10
17	10/13/10	10:25	BBNPP-CW17-C				X		SD	ICE	X								-11
18	10/13/10	10:15	BBNPP-CW20-C				X		SD	ICE	X								-12
19	10/13/10	11:58	BBNPP-CW23-C				X		SD	ICE	X								-13
20	10/13/10	11:15	BBNPP-CW20GFD				X		SD	ICE	X								-14
21	10/14/10	12:30	BBNPP-~~CW~~ D2				X		SD	ICE	X								-15
22	10/14/10	12:45	BBNPP-D1-C				X		SD	ICE	X								-16
23	10/14/10	12:20	BBNPP-R-C				X		SD	ICE	X								-17A
24	10/14/10	12:45	BBNPP-CW22-C				X		SD	ICE	X								-18
25	10/14/10	15:01	BBNPP-GEB				X		SD	ICE	X								-19
26	10/14/10	15:55	BBNPP-~~[illegible]~~ PB				X		SD	ICE	X								-20
27	10/13/10	14:37	BBNPP-CW4-C				X		SD	ICE	X								-21
28	10/13/10	15:00	BBNPP-CW7-C				X		SD	ICE	X								-22
29	10/13/10	15:30	BBNPP-CW14-C				X		SD	ICE	X								-23
30	10/13/10	15:49	BBNPP-CW13-C				X		SD	ICE	X								-24

Relinquished by	Date & Time	Relinquished by	Date & Time	Relinquished by	Date & Time
[signature]	10/14/10 16:30				

Received by	Date & Time	Received by	Date & Time	Received by	Date & Time
[signature]	10/15/10 9:20				

Shipping Info.

Remarks

Temp °C 0

* Surcharges may apply

CHAIN OF CUSTODY RECORD

Box 5

PROJECT UNE BBNPP
CONTACT DION LEWIS
COMPANY AECOM
ADDRESS

EMAIL DION.LEWIS@AECOM.COM
PHONE 978-589-3056 **FAX**
SAMPLED BY M Lekhavy
Print Name M Lekhavy Sign

Turn Around Time
Standard ☒
If Authorized *
1 Week ☐
Other ☐

META Environmental, Inc.
49 Clarendon St. - Watertown, Massachusetts - 02472
Tel (617) 923-4662 - Fax (617) 923-4610 - www.metaenv.com

Parameters

Samp #	Date	Time	Field Sample ID	Container Size	Container G/P	Grab	Composite	# of Containers	Matrix	Preserv.	TELEAD								Comments
31	10/13/10	[illegible]	BBNPP-CU 16-C	120-L	G		X	1	SD	Ice	X								AE101015-25
32	10/13/10	16:32	BBNPP-CU 19-C	↓	G		X	1	SD	Ice	X								-26
33	10/14/10	12:20	BBNPP-R-GMS	↓	G		X	1	SD	Ice	X								-17b
34	10/14/10	12:20	BBNPP-R-C-MSD	↓	G		X	1	SD	Ice	X								-17c
35	10/14/10	12:45	BBNPP-D1-C-FD	↓	G		X	1	SD	Ice	X								-27

Relinquished by	Date & Time	Relinquished by	Date & Time	Relinquished by	Date & Time
[signature]	10/14/10 16:30				
Received by	**Date & Time**	**Received by**	**Date & Time**	**Received by**	**Date & Time**
[signature]	10/15/10 9:30				

Shipping Info.

Remarks

Temp °C

* Surcharges may apply

META Environmental, Inc.

Sample Receipt Log

Lab ID	Field ID	Matrix	Date Sampled	Date Received	Project #	Container	Comments	Client Name	Project Name
AE101015-01	BBNPP-CW1-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-02	BBNPP-CW2-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-03	BBNPP-CW3-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-04	BBNPP-CW6-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-05	BBNPP-CW9-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-06	BBNPP-CW12-C	Soil	10/12/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-07	BBNPP-CW5-C	Soil	10/13/2010	10/15/2010	A21010-60	3 x 4 oz jar		AECOM	UNE BBNPP
AE101015-08	BBNPP-CW8-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-09	BBNPP-CW11-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-10	BBNPP-CW14-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-11	BBNPP-CW17-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-12	BBNPP-CW20-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-13	BBNPP-CW23-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-14	BBNPP-CW20-C FD	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-15	BBNPP-D2	Soil	10/14/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-16	BBNPP-D1	Soil	10/14/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-17	BBNPP-R-C	Soil	10/14/2010	10/15/2010	A21010-60	3 x 4 oz jar		AECOM	UNE BBNPP
AE101015-18	BBNPP-CW22-C	Soil	10/14/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-19	BBNPP-C-EB	Water	10/14/2010	10/15/2010	A21010-60	3 x 40 ml VOA		AECOM	UNE BBNPP
AE101015-20	BBNPP-PB	Water	10/14/2010	10/15/2010	A21010-60	3 x 40 ml VOA		AECOM	UNE BBNPP
AE101015-21	BBNPP-CW4-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-22	BBNPP-CW7-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-23	BBNPP-CW10-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-24	BBNPP-CW13-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-25	BBNPP-CW16-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-26	BBNPP-CW19-C	Soil	10/13/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101015-27	BBNPP-D1-C-FD	Soil	10/14/2010	10/15/2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP

Logged By: CRR

Date: 10/15/10

Reviewed By: [illegible]

Date: 10/15/10

META Environmental, Inc.

Analysis Log

Lab ID	Prep Method	Cleanup Method	META Analysis Method(s)	Subcontracted Analyses	Subcontract Laboratory	Turn Around Time
AE101015-01	2508		4008/TEL			Standard
AE101015-02	2508		4008/TEL			Standard
AE101015-03	2508		4008/TEL			Standard
AE101015-04	2508		4008/TEL			Standard
AE101015-05	2508		4008/TEL			Standard
AE101015-06	2508		4008/TEL			Standard
AE101015-07	2508		4008/TEL			Standard
AE101015-08	2508		4008/TEL			Standard
AE101015-09	2508		4008/TEL			Standard
AE101015-10	2508		4008/TEL			Standard
AE101015-11	2508		4008/TEL			Standard
AE101015-12	2508		4008/TEL			Standard
AE101015-13	2508		4008/TEL			Standard
AE101015-14	2508		4008/TEL			Standard
AE101015-15	2508		4008/TEL			Standard
AE101015-16	2508		4008/TEL			Standard
AE101015-17	2508		4008/TEL			Standard
AE101015-18	2508		4008/TEL			Standard
AE101015-19	2005		4008/TEL			Standard
AE101015-20	2005		4008/TEL			Standard
AE101015-21	2508		4008/TEL			Standard
AE101015-22	2508		4008/TEL			Standard
AE101015-23	2508		4008/TEL			Standard
AE101015-24	2508		4008/TEL			Standard
AE101015-25	2508		4008/TEL			Standard
AE101015-26	2508		4008/TEL			Standard
AE101015-27	2508		4008/TEL			Standard

Logged By: RPR

Date: 10/15/10

Reviewed By: [illegible]

Date: 10/15/10

META Environmental, Inc.

Sample Receipt Checklist

Receipt date: 10/15/10

Login date: 10/15/10

Login personnel: KFR

Client Information:.

Company Name: AECOM

Project Manager: DION LEWIS

Project Name: UNE BBNPP

Shipping Information:

How were samples received? UPS (FedEx) DHL Other:

Number of coolers: 1

Internal temperature of coolers: 0

Was ice present? (Yes) / No

Note: if cooler is outside the 2-6° range, META's project manager should be notified.

Documentation:

Was a Chain of Custody present? (Yes) / No

Was it signed? (Yes) / No

Was all project information present on the COC? Yes / (No)

Was a bill of lading or shipping label retained? (Yes) / No

Sample Information:

Number of sample containers: 35

Does this match the COC? Yes / (No)

Were all sample containers Intact? (Yes) / No

If no, list samples and problems:

Note: if samples are damaged, META's project manager should be notified.

For aqueous 40ml Voas; was headspace present? Yes / (No) / NA

Comments: Field id Sample (BBNPP-CW-12-C) is listed as not sent and will be sent in a separate cooler, but it was in fact sent with this shipment. Field ID Samples (BBNPP-EB & BBNPP-FB) were not listed as aqueous and also sampling type of one fraction is incorrect or not specified. Most aqueous samples have 2 templates associated with each

Custodian: KFR

Project Manager: [signature]

META Environmental, Inc.

Chain of Custody Deficiency Form

Client information:
Company Name: AECOM
Project Manager: Dion Lewis
Project Name: UNE BBNPP

On October 15, 2010 a total of 35 samples were received through FedEx. Upon arrival four deficiencies were observed on the COC.

1. Field sample (BBNPP-CW-12-C) was listed as not shipped, however, sample was received with the batch.

2. Field samples (BBNPP-C-EB & BBNPP-PB) were listed as soil, the matrix is aqueous.

3. Field samples (BBNPP-C-EB & BBNPP-PB) were listed as 120mL glass containers, there were 40mL VOA vials.

4. Field samples (BBNPP-C-EB & BBNPP-PB) were listed as receiving 1 container, 3 of each were received.

ENSR | AECOM

CHAIN OF CUSTODY RECORD

JA58750+X Page 1 of 2

Client/Project Name: UNE BBNPP	Project Location: Susquehanna River
Project Number: 60160208	Field Logbook No.: BBNPP-SP-1
Sampler (Print Name)/(Affiliation): Mike Hauser/AECOM	Chain of Custody Tape Nos.:
Signature:	Send Results/Report to: DION LEWIS — TAT: NORMAL

Analysis Requested: VOCs, Ethylene Glycol, TCDD Dioxin, Formaldehyde, Organo Phos Pest., Combined Chemistry, Archive VOCs, Archive

Container Type: P – Plastic; A – Amber Glass; G – Clear Glass; V – VOA Vial; O – Other; E – Encore

Preservation: 1 – HCl, 4°; 2 – H2SO4, 4°; 3 – HNO3, 4°; 4 – NaOH, 4°; 5 – NaOH/ZnAc, 4°; 6 – Na2S2O3, 4°; 7 – 4°

Matrix Codes: DW – Drinking Water; WW – Wastewater; GW – Groundwater; SW – Surface Water; ST – Storm Water; W – Water; S – Soil; SL – Sludge; SD – Sediment; SO – Solid; A – Air; L – Liquid; P – Product

Field Sample No./Identification	Date	Time	COMP	GRAB	Sample Container (Size/Mat'l)	Matrix	Preserv.	Field Filtered	VOCs	Ethylene Glycol	TCDD Dioxin	Formaldehyde	Organo Phos Pest.	Combined Chemistry	Archive VOCs	Archive		Lab I.D.	Remarks
BBNP-CW1-C	10/12/10	10:26	X		A/E 6/2 V/3	SD	[illegible]	N	X	X	X	X	X	X	X	X	-1		UTC43
BBNP-CW2-C	10/12/10	10:10	X			SD			X	X	X	X	X	X	X	X	-2	TM 10/18/10	14B4
BBNP-CW3-C	10/12/10	12:02	X			SD			X	X	X	X	X	X	X	X	-3		4059
BBNP-CW6-C	10/12/10	12:40	X			SD			X	X	X	X	X	X	X	X	-4		19M3
BBNP-CW9-C	10/12/10	14:23	X			SD			X	X	X	X	X	X	X	X	-5		19M4
BBNP-CW9-C-FD *	10/12/10	14:23	X			SD			X	X	X	X	X	X	X	X	-6		5U3 AE10C09-0
BBNP-CW12-C	10/12/10	14:51	X			SD			X	X	X	X	X	X	X	X	-7	TM 10/18/10	★WC39
BBNP-CW15-C *	10/12/10	15:49	X			SD			X	X	X	X	X	X	X	X	-8		*Samples to Be Sent to AE10C09
BBNP-CW18-C *	10/12/10	16:11	X			SD			X	X	X	X	X	X	X	X	-9		meta for Tetra Ethyl PB AE10C09
BBNP-CW21-C *	10/12/10	16:29	X			SD			X	X	X	X	X	X	X	X	-10		per Dion Lewis TM 10/18/ AE10C09
T101310					V/3	AQ			X									TM 10/18/10	

D.I. slurry voc vials frozen storage
Date: 10/13/10 Time: 23:27 Initials: KL

~~Field Kits Received~~

Relinquished by: (Print Name)/(Affiliation) Mike Hauser/AECOM	Date: 10/13/10 Time: 14:50	Received by: (Print Name)/(Affiliation) Anil Patel	Date: Time:
Relinquished by: (Print Name)/(Affiliation)	Date: 10-13-10 Time: 1900	Received by: (Print Name)/(Affiliation)	Date: 10/13/10 Time: 3:10 P.M
~~Relinquished by:~~ (Print Name)/(Affiliation) Received By:	Date: 10-13-10 Time: 19:00	Received by: (Print Name)/(Affiliation) Priority	Date: Time:

Analytical Laboratory (Destination): SEACS Intract 6 coolers 5.2°, 3.7, 5.8, 4.6, 4.1, 2.9°C

★ volume shipped on selected samples (1.5-1.5)

Sample Shipped Via: UPS FedEx Courier Other

Temp blank: Yes No

IB Rel'd by [illegible] 10/18/10 1700
Rec'd by [illegible] 10/18/10 1700

Q:\GRAPHICS\FORMS\Chain of Custody (COC)\Chain-of-Custody_AECOM_05_3NCR.doc

White: Original (to Lab) Yellow: Lab Pink: Sampler

Serial No. 01924

META Environmental, Inc.

Sample Receipt Log

Lab ID	Field ID	Matrix	Date Sampled	Date Received	Project #	Container	Comments	Client Name	Project Name
AE101019-01	BBNPP-CW9-C-FD	Soil	10 12 2010	10 19 2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101019-02	BBNPP-CW15-C	Soil	10 12 2010	10 19 2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101019-03	BBNPP-CW18-C	Soil	10 12 2010	10 19 2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP
AE101019-04	BBNPP-CW21-C	Soil	10 12 2010	10 19 2010	A21010-60	1 x 4 oz jar		AECOM	UNE BBNPP

Logged By: _____

Date: 10/19/10

Reviewed By: _____

Date: 10/21/10

META Environmental, Inc.
Sample Receipt Checklist

Receipt date: 10/19/10

Login date: 10/19/10

Login personnel: Jolyan Pasquatucci

Client Information:.

Company Name: Aecom

Project Manager: Mike Hauser

Project Name: UNE BBAUOP

Shipping Information:

How were samples received? UPS (FedEx) DHL Other:

Number of coolers: 1

Internal temperature of coolers: 0°C

Was ice present? (Yes) / No

Note: if cooler is outside the 2-6° range, META's project manager should be notified.

Documentation:

Was a Chain of Custody present? (Yes) / No

Was it signed? (Yes) / No

Was all project information present on the COC? (Yes) / No

Was a bill of lading or shipping label retained? Yes / (No)

Sample Information:

Number of sample containers: 4

Does this match the COC? (Yes) / No

Were all sample containers Intact? (Yes) / No

If no, list samples and problems:

Note: if samples are damaged, META's project manager should be notified.

For aqueous 40ml Voas; was headspace present? Yes / No / (NA)

Comments:

Custodian: [signature]

Project Manager: [signature]

Appendix B

Sample Data Summary

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW1-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-01		
File ID:	E102915.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.27
Date Cleanup:	NA	Percent Solid:	84.2%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	66	50 - 120
Phenanthrene-d10	77	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW2-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-02		
File ID:	E102916.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.16
Date Cleanup:	NA	Percent Solid:	84.1%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	70	50 - 120
Phenanthrene-d10	79	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW3-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-03		
File ID:	E102917.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.01
Date Cleanup:	NA	Percent Solid:	85.8%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	67	50 - 120
Phenanthrene-d10	76	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW6-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-04		
File ID:	E102918.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.14
Date Cleanup:	NA	Percent Solid:	85.6%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	75	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW9-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-05		
File ID:	E102919.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.24
Date Cleanup:	NA	Percent Solid:	85.4%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	67	50 - 120
Phenanthrene-d10	75	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW12-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-06		
File ID:	E102923.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.16
Date Cleanup:	NA	Percent Solid:	87.0%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	71	50 - 120
Phenanthrene-d10	76	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW5-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-07		
File ID:	E102924.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.07
Date Cleanup:	NA	Percent Solid:	85.2%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	72	50 - 120
Phenanthrene-d10	80	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW8-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-08		
File ID:	E102927.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.18
Date Cleanup:	NA	Percent Solid:	86.3%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	76	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW11-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-09		
File ID:	E102928.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.17
Date Cleanup:	NA	Percent Solid:	85.4%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	61	50 - 120
Phenanthrene-d10	67	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW14-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-10		
File ID:	E102929.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.07
Date Cleanup:	NA	Percent Solid:	87.2%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	73	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW17-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-11		
File ID:	E102930.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	86.4%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	72	50 - 120
Phenanthrene-d10	84	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW20-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-12		
File ID:	E102931.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.18
Date Cleanup:	NA	Percent Solid:	84.1%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	67	50 - 120
Phenanthrene-d10	84	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW23-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-13		
File ID:	E102932.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.65
Date Cleanup:	NA	Percent Solid:	81.3%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	69	50 - 120
Phenanthrene-d10	74	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW20-C FD

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-14		
File ID:	E102936.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.21
Date Cleanup:	NA	Percent Solid:	83.2%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	74	50 - 120
Phenanthrene-d10	90	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-D2

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-15		
File ID:	E102937.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.09
Date Cleanup:	NA	Percent Solid:	80.8%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	72	50 - 120
Phenanthrene-d10	80	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-D1

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-16		
File ID:	E102938.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.24
Date Cleanup:	NA	Percent Solid:	77.9%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	74	50 - 120
Phenanthrene-d10	88	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-R-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-17		
File ID:	E102939.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.27
Date Cleanup:	NA	Percent Solid:	84.2%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	75	50 - 120
Phenanthrene-d10	84	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW22-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-18		
File ID:	E102942.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.04
Date Cleanup:	NA	Percent Solid:	83.6%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	75	50 - 120
Phenanthrene-d10	96	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-C-EB

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-19		
File ID:	E102943.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Volume (ml)	36.51
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte	Concentration (µg/L)	RL	EDL	Comments
Tetraethyl lead	U	0.548	0.274	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	85	50 - 120
Phenanthrene-d10	100	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-PB

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-20		
File ID:	E102944.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Volume (ml)	36.83
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte	Concentration (µg/L)	RL	EDL	Comments
Tetraethyl lead	U	0.543	0.272	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	91	50 - 120
Phenanthrene-d10	102	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW4-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-21		
File ID:	E102950.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.35
Date Cleanup:	NA	Percent Solid:	84.8%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	84	50 - 120
Phenanthrene-d10	91	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW7-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-22		
File ID:	E102951.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.02
Date Cleanup:	NA	Percent Solid:	84.5%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	77	50 - 120
Phenanthrene-d10	80	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW10-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-23		
File ID:	E102952.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.01
Date Cleanup:	NA	Percent Solid:	85.0%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	75	50 - 120
Phenanthrene-d10	80	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW13-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-24		
File ID:	E102953.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.09
Date Cleanup:	NA	Percent Solid:	81.7%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	72	50 - 120
Phenanthrene-d10	81	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW16-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-25		
File ID:	E102954.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.24
Date Cleanup:	NA	Percent Solid:	76.8%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	80	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW19-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-26		
File ID:	E102955.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.11
Date Cleanup:	NA	Percent Solid:	84.7%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	70	50 - 120
Phenanthrene-d10	75	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-D1-C-FD

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-27		
File ID:	E102956.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.04
Date Cleanup:	NA	Percent Solid:	77.0%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	67	50 - 120
Phenanthrene-d10	82	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW9-C-FD

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101019-01		
File ID:	E102957.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/19/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.35
Date Cleanup:	NA	Percent Solid:	79.5%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	65	50 - 120
Phenanthrene-d10	73	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW15-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101019-02		
File ID:	E102958.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/19/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.26
Date Cleanup:	NA	Percent Solid:	82.2%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	70	50 - 120
Phenanthrene-d10	77	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW18-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101019-03		
File ID:	E102962.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/19/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.34
Date Cleanup:	NA	Percent Solid:	83.2%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	68	50 - 120
Phenanthrene-d10	76	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: BBNPP-CW21-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101019-04		
File ID:	E102963.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/12/2010	Decanted:	None
Date Received:	10/19/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.11
Date Cleanup:	NA	Percent Solid:	83.1%
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.006	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	62	50 - 120
Phenanthrene-d10	70	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Soil Blank**

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC101020-SB		
File ID:	E102910.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	10/20/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	71	50 - 120
Phenanthrene-d10	81	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: Soil Blank Spike

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC101020-SBS		
File ID:	E102913.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	10/20/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	Comments
Tetraethyl lead	1.25	0.811	0.005	0.003	65

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	73	50 - 120
Phenanthrene-d10	82	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Matrix Spike of BBNPP-CW5-C**

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-07MS		
File ID:	E102925.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.08
Date Cleanup:	NA	Percent Solid:	85.2%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	% Rec.
Tetraethyl lead	1.44	0.675	0.006	0.003	47

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	66	50 - 120
Phenanthrene-d10	74	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sarnple equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: Matrix Spike Duplicate of BBNPP-CW5-C

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-07MSD		
File ID:	E102926.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/13/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.28
Date Cleanup:	NA	Percent Solid:	85%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	% Rec.	RPD
Tetraethyl lead	1.37	0.68	0.01	0.00	49	0.1

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	66	50 - 120
Phenanthrene-d10	76	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: Soil Blank

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC101020-SB1		
File ID:	E102911.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	10/20/2010	Sample Size (g):	4.00
Date Cleanup:	NA	Percent Solid:	100.0%
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)	RL	EDL	Comments
Tetraethyl lead	U	0.005	0.003	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	81	50 - 120
Phenanthrene-d10	93	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Matrix Spike of BBNPP-R-C**

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-17MS		
File ID:	E102940.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.14
Date Cleanup:	NA	Percent Solid:	84.2%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	% Rec.
Tetraethyl lead	1.43	0.803	0.006	0.003	56

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	84	50 - 120
Phenanthrene-d10	92	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Matrix Spike Duplicate of BBNPP-R-C**

Client:	AECOM	Preparation Method:	EPA 3570
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-17MSD		
File ID:	E102941.D	Matrix:	Sediment
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Size (g):	4.13
Date Cleanup:	NA	Percent Solid:	84%
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-SB1		

Analyte	Concentration (mg/kg dry wt.)		RL	EDL	% Rec.	RPD
Tetraethyl lead	1.44	0.69	0.01	0.00	48	14.6

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	74	50 - 120
Phenanthrene-d10	79	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: Aqueous Blank

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC101020-AB		
File ID:	E102912.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	10/20/2010	Sample Volume (ml)	35.00
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte	Concentration (µg/L)	RL	EDL	Comments
Tetraethyl lead	U	0.571	0.286	

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	88	50 - 120
Phenanthrene-d10	98	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Aqueous Blank Spike**

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	QC101020-ABS		
File ID:	E102914.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	NA	Decanted:	None
Date Received:	NA		
Date Prepared:	10/20/2010	Sample Volume (ml)	35.00
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	10/30/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte		Concentration (µg/L)	RL	EDL	Comments
Tetraethyl lead	143	110	0.571	0.286	77

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	87	50 - 120
Phenanthrene-d10	97	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: **Matrix Spike of BBNPP-PB**

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-20MS		
File ID:	E102945.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Volume (ml)	37.06
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	10/31/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte		Concentration (µg/L)	RL	EDL	% Rec.
Tetraethyl lead	135	103	0.540	0.270	76

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	90	50 - 120
Phenanthrene-d10	100	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Analytical Results for Organic Lead
META Environmental, Inc.

Field ID: Matrix Spike Duplicate of BBNPP-PB

Client:	AECOM	Preparation Method:	EPA 3511
Project:	UNE BBNPP	Cleanup Method(s):	NA
		Analysis Method:	EPA 8270M
Lab ID	AE101015-20MSD		
File ID:	E102949.D	Matrix:	Aqueous
		Preservation:	None
Date Sampled:	10/14/2010	Decanted:	None
Date Received:	10/15/2010		
Date Prepared:	10/20/2010	Sample Volume (ml)	36.13
Date Cleanup:	NA	Percent Solid:	NA
Date Analyzed:	11/1/2010	Extract Volume (µl):	2000
Instrument:	El Camino	Prep DF:	1
Operator:	JAR	Analysis DF:	1
		Injection Volume (µl):	1.00
Batch QC:	QC101020-AB		

Analyte	Concentration (µg/L)		RL	EDL	% Rec.	RPD
Tetraethyl lead	138	95.0	0.55	0.28	69	8.1

Extraction Surrogate Recoveries (%)		Limits
Toluene-d8	84	50 - 120
Phenanthrene-d10	91	50 - 120

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and DL.
U - Analyte not detected above DL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.

Sediment Semi-volatile Method Blank Summary Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP**

Analytical Batch: QC101020-SB Lab Sample ID: QC101020-SB

Lab File ID: E102910.D Date Analyzed: 10/30/10 12:33

GC Column: ZB5-MSi 60m x 0.25 x 0.25 Instrument: El Camino

This Method Blank applies to the following samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
Soil Blank Spike	QC101020-SBS	E102913.D	10/30/10 4:21
BBNPP-CW5-C	AE101015-07	E102924.D	10/30/10 18:13
Matrix Spike of BBNPP-CW5-C	AE101015-07MS	E102925.D	10/30/10 19:29
Matrix Spike Duplicate of BBNPP-CW5-C	AE101015-07MSD	E102926.D	10/30/10 20:45
BBNPP-CW1-C	AE101015-01	E102915.D	10/30/10 6:52
BBNPP-CW2-C	AE101015-02	E102916.D	10/30/10 8:07
BBNPP-CW3-C	AE101015-03	E102917.D	10/30/10 9:22
BBNPP-CW6-C	AE101015-04	E102918.D	10/30/10 10:38
BBNPP-CW9-C	AE101015-05	E102919.D	10/30/10 11:53
BBNPP-CW12-C	AE101015-06	E102923.D	10/30/10 16:57
BBNPP-CW8-C	AE101015-08	E102927.D	10/30/10 22:01
BBNPP-CW11-C	AE101015-09	E102928.D	10/30/10 23:17
BBNPP-CW14-C	AE101015-10	E102929.D	10/31/10 0:33
BBNPP-CW17-C	AE101015-11	E102930.D	10/31/10 1:49
BBNPP-CW20-C	AE101015-12	E102931.D	10/31/10 3:05
BBNPP-CW23-C	AE101015-13	E102932.D	10/31/10 4:21
BBNPP-CW20-C FD	AE101015-14	E102936.D	10/31/10 9:25
BBNPP-D2	AE101015-15	E102937.D	10/31/10 10:41
BBNPP-D1	AE101015-16	E102938.D	10/31/10 11:57
BBNPP-CW22-C	AE101015-18	E102942.D	10/31/10 17:03
BBNPP-CW4-C	AE101015-21	E102950.D	11/1/10 3:06

Comments:

Sediment Semi-volatile Method Blank Summary Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP** **AE101019**

Analytical Batch: QC101020-SB1 Lab Sample ID: QC101020-SB1

Lab File ID: E102911.D Date Analyzed: 10/30/10 1:49

GC Column: ZB5-MSi 60m x 0.25 x 0.25 Instrument: El Camino

This Method Blank applies to the following samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
BBNPP-R-C	AE101015-17	E102939.D	10/31/10 13:14
Matrix Spike of BBNPP-R-C	AE101015-17MS	E102940.D	10/31/10 14:30
Matrix Spike Duplicate of BBNPP-R-C	AE101015-17MSD	E102941.D	10/31/10 15:47
BBNPP-CW7-C	AE101015-22	E102951.D	11/1/10 4:20
BBNPP-CW10-C	AE101015-23	E102952.D	11/1/10 5:35
BBNPP-CW13-C	AE101015-24	E102953.D	11/1/10 6:49
BBNPP-CW16-C	AE101015-25	E102954.D	11/1/10 8:03
BBNPP-CW19-C	AE101015-26	E102955.D	11/1/10 9:18
BBNPP-D1-C-FD	AE101015-27	E102956.D	11/1/10 10:32
BBNPP-CW9-C-FD	AE101019-01	E102957.D	11/1/10 11:46
BBNPP-CW15-C	AE101019-02	E102958.D	11/1/10 13:03
BBNPP-CW18-C	AE101019-03	E102962.D	11/1/10 18:08
BBNPP-CW21-C	AE101019-04	E102963.D	11/1/10 19:23

Comments:

Aqueous Semi-volatile Method Blank Summary Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP**

Analytical Batch: QC101020-AB Lab Sample ID: QC101020-AB

Lab File ID: E102912.D Date Analyzed: 10/30/10 3:05

GC Column: ZB5-MSi 60m x 0.25 x 0.25 Instrument: El Camino

This Method Blank applies to the following samples:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
Aqueous Blank Spike	QC101020-ABS	E102914.D	10/30/10 5:36
BBNPP-PB	AE101015-20	E102944.D	10/31/10 19:35
Matrix Spike of BBNPP-PB	AE101015-20MS	E102945.D	10/31/10 20:51
Matrix Spike Duplicate of BBNPP-PB	AE101015-20MSD	E102949.D	11/1/10 1:51
BBNPP-C-EB	AE101015-19	E102943.D	10/31/10 18:19

Comments:

Sediment Semi-volatile System Monitoring Compound Recovery Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP**
Analytical Batch: **QC101020-SB**

Client Sample ID	Lab ID	Toluene-d8	Phenanthrene-d10	Total Out
Soil Blank	QC101020-SB	71	81	0
Soil Blank Spike	QC101020-SBS	73	82	0
BBNPP-CW5-C	AE101015-07	72	80	0
Matrix Spike of BBNPP-CW5-C	AE101015-07MS	66	74	0
Matrix Spike Duplicate of BBNPP-CW5	AE101015-07MSD	66	76	0
BBNPP-CW1-C	AE101015-01	66	77	0
BBNPP-CW2-C	AE101015-02	70	79	0
BBNPP-CW3-C	AE101015-03	67	76	0
BBNPP-CW6-C	AE101015-04	65	75	0
BBNPP-CW9-C	AE101015-05	67	75	0
BBNPP-CW12-C	AE101015-06	71	76	0
BBNPP-CW8-C	AE101015-08	65	76	0
BBNPP-CW11-C	AE101015-09	61	67	0
BBNPP-CW14-C	AE101015-10	65	73	0
BBNPP-CW17-C	AE101015-11	72	84	0
BBNPP-CW20-C	AE101015-12	67	84	0
BBNPP-CW23-C	AE101015-13	69	74	0
BBNPP-CW20-C FD	AE101015-14	74	90	0
BBNPP-D2	AE101015-15	72	80	0
BBNPP-D1	AE101015-16	74	88	0
BBNPP-CW22-C	AE101015-18	75	96	0
BBNPP-CW4-C	AE101015-21	84	91	0

Compound	QC Limits
Toluene-d8	50 - 120
Phenanthrene-d10	50 - 120

Sediment Semi-volatile System Monitoring Compound Recovery Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP** **AE101019**
Analytical Batch: **QC101020-SB1**

Client Sample ID	Lab ID	Toluene-d8	Phenanthrene-d10	Total Out
Soil Blank	QC101020-SB1	81	93	0
BBNPP-R-C	AE101015-17	75	84	0
Matrix Spike of BBNPP-R-C	AE101015-17MS	84	92	0
Matrix Spike Duplicate of BBNPP-R-C	AE101015-17MSD	74	79	0
BBNPP-CW7-C	AE101015-22	77	80	0
BBNPP-CW10-C	AE101015-23	75	80	0
BBNPP-CW13-C	AE101015-24	72	81	0
BBNPP-CW16-C	AE101015-25	65	80	0
BBNPP-CW19-C	AE101015-26	70	75	0
BBNPP-D1-C-FD	AE101015-27	67	82	0
BBNPP-CW9-C-FD	AE101019-01	65	73	0
BBNPP-CW15-C	AE101019-02	70	77	0
BBNPP-CW18-C	AE101019-03	68	76	0
BBNPP-CW21-C	AE101019-04	62	70	0

Compound	QC Limits
Toluene-d8	50 - 120
Phenanthrene-d10	50 - 120

Aqueous Semi-volatile System Monitoring Compound Recovery Report
META Environmental, Inc.

Client: **AECOM** SDG#: **AE101015**
Project: **UNE BBNPP**
Analytical Batch: **QC101020-AB**

Client Sample ID	Lab ID	Toluene-d8	Phenanthrene-d10	Total Out
Aqueous Blank	QC101020-AB	88	98	0
Aqueous Blank Spike	QC101020-ABS	87	97	0
BBNPP-PB	AE101015-20	91	102	0
Matrix Spike of BBNPP-PB	AE101015-20MS	90	100	0
Matrix Spike Duplicate of BBNPP-PB	AE101015-20MSD	84	91	0
BBNPP-C-EB	AE101015-19	85	100	0

Compound	QC Limits
Toluene-d8	50 - 120
Phenanthrene-d10	50 - 120

Semi-volatile Internal Standard Summary Report
META Environmental, Inc.

Client: **AECOM** SDGs: **AE101015**
Project: **UNE BBNPP** **AE101019**

Analytical Standard ID: A978 (surrogates)
B037 (TEL)

Standard Concentration: 1.0 µg/mL

GC Column: ZB5-MSi 60m x 0.25 x .025

Instrument: El Camino

Analytical Method: E101029.M (TEL)
E101029A.M (surrogates)

Date Acquired	Data File ID	Sample Name	Retention Time	Acenaphthene-d10 Area
10/29/2010 12:49	E102901.D	A978	23.60	50928
10/29/2010 15:37	E102903.D	B123	23.60	60591
10/29/2010 16:53	E102904.D	B035	23.60	44393
10/29/2010 18:10	E102905.D	B036	23.60	42588
10/29/2010 19:27	E102906.D	B037	23.60	43402
10/29/2010 20:44	E102907.D	B038	23.60	40867
10/29/2010 22:00	E102908.D	B039	23.60	51892
10/30/2010 12:33	E102910.D	QC101020-SB	23.60	49997
10/30/2010 1:49	E102911.D	QC101020-SB1	23.60	47245
10/30/2010 3:05	E102912.D	QC101020-AB	23.60	48031
10/30/2010 4:21	E102913.D	QC101020-SBS	23.60	49261
10/30/2010 5:36	E102914.D	QC101020-ABS	23.60	52090
10/30/2010 6:52	E102915.D	AE101015-01	23.60	47256
10/30/2010 8:07	E102916.D	AE101015-02	23.60	42593
10/30/2010 9:22	E102917.D	AE101015-03	23.60	46228
10/30/2010 10:38	E102918.D	AE101015-04	23.60	47768
10/30/2010 11:53	E102919.D	AE101015-05	23.60	46211
10/30/2010 14:25	E102921.D	A978	23.60	46048
10/30/2010 15:41	E102922.D	B037	23.60	36786
10/30/2010 16:57	E102923.D	AE101015-06	23.60	44414
10/30/2010 18:13	E102924.D	AE101015-07	23.60	48879
10/30/2010 19:29	E102925.D	AE101015-07MS	23.60	47040
10/30/2010 20:45	E102926.D	AE101015-07MSD	23.60	48999
10/30/2010 22:01	E102927.D	AE101015-08	23.59	50543
10/30/2010 23:17	E102928.D	AE101015-09	23.59	49547
10/31/2010 12:33	E102929.D	AE101015-10	23.59	47339
10/31/2010 1:49	E102930.D	AE101015-11	23.59	41716
10/31/2010 3:05	E102931.D	AE101015-12	23.59	47354
10/31/2010 4:21	E102932.D	AE101015-13	23.59	43816
10/31/2010 6:53	E102934.D	A978	23.59	45580
10/31/2010 8:09	E102935.D	B037	23.59	37427
10/31/2010 9:25	E102936.D	AE101015-14	23.59	43513
10/31/2010 10:41	E102937.D	AE101015-15	23.59	40320
10/31/2010 11:57	E102938.D	AE101015-16	23.59	41882
10/31/2010 13:14	E102939.D	AE101015-17	23.59	45235
10/31/2010 14:30	E102940.D	AE101015-17MS	23.59	39670
10/31/2010 15:47	E102941.D	AE101015-17MSD	23.59	37974
10/31/2010 17:03	E102942.D	AE101015-18	23.59	44394
10/31/2010 18:19	E102943.D	AE101015-19	23.59	56850
10/31/2010 19:35	E102944.D	AE101015-20	23.59	49655
10/31/2010 20:51	E102945.D	AE101015-20MS	23.59	48652

Semi-volatile Internal Standard Summary Report
META Environmental, Inc.

Client: **AECOM** SDGs: **AE101015**
Project: **UNE BBNPP** **AE101019**

Analytical Standard ID: A978 (surrogates)
B037 (TEL)

Standard Concentration: 1.0 µg/mL

GC Column: ZB5-MSi 60m x 0.25 x .025

Instrument: El Camino

Analytical Method: E101029.M (TEL)
E101029A.M (surrogates)

Date Acquired	Data File ID	Sample Name	Retention Time	Acenaphthene-d10 Area
10/31/2010 23:21	E102947.D	A978	23.59	38336
11/1/2010 12:36	E102948.D	B037	23.59	46486
11/1/2010 1:51	E102949.D	AE101015-20MSD	23.59	46086
11/1/2010 3:06	E102950.D	AE101015-21	23.59	41267
11/1/2010 4:20	E102951.D	AE101015-22	23.59	39288
11/1/2010 5:35	E102952.D	AE101015-23	23.59	39179
11/1/2010 6:49	E102953.D	AE101015-24	23.59	38818
11/1/2010 8:03	E102954.D	AE101015-25	23.59	41407
11/1/2010 9:18	E102955.D	AE101015-26	23.59	49029
11/1/2010 10:32	E102956.D	AE101015-27	23.59	45338
11/1/2010 11:46	E102957.D	AE101019-01	23.59	59184
11/1/2010 13:03	E102958.D	AE101019-02	23.59	41271
11/1/2010 15:35	E102960.D	A978	23.59	51329
11/1/2010 16:52	E102961.D	B037	23.59	50824
11/1/2010 18:08	E102962.D	AE101019-03	23.58	35888
11/1/2010 19:23	E102963.D	AE101019-04	23.58	37689
11/1/2010 20:39	E102964.D	ST101014-01	23.58	55090
11/1/2010 21:54	E102965.D	ST101014-01DUP	23.58	75728
11/1/2010 23:09	E102966.D	ST101014-02	23.58	77533
11/2/2010 12:24	E102967.D	ST101014-03	23.58	43026
11/2/2010 1:39	E102968.D	ST101014-04	23.58	49110
11/2/2010 2:54	E102969.D	ST101014-05	23.58	51317
11/2/2010 4:08	E102970.D	ST101014-06	23.58	39440
11/2/2010 6:38	E102972.D	A978	23.58	45263
11/2/2010 7:53	E102973.D	B037	23.58	37017

Appendix C

Raw Data

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E102901.D	0.	A978 — SURROGATE CHECK		29 Oct 2010 12:49
2	2	E102902.D	0.	DCM		29 Oct 2010 14:19
3	3	E102903.D	0.	B123		29 Oct 2010 15:37
4	4	E102904.D	0.	B035		29 Oct 2010 16:53
5	5	E102905.D	0.	B036 — ICAL FOR ALKYL LEAD COMPOUNDS ONLY		29 Oct 2010 18:10
6	6	E102906.D	0.	B037 E101029.M		29 Oct 2010 19:27
7	7	E102907.D	0.	B038		29 Oct 2010 20:44
8	8	E102908.D	0.	B039		29 Oct 2010 22:00
9	9	E102909.D	0.	DCM		29 Oct 2010 23:17
10	10	E102910.D	0.	QC101020-SB	Soil Blank	30 Oct 2010 00:33
11	11	E102911.D	0.	QC101020-SB1	Soil Blank	30 Oct 2010 01:49
12	12	E102912.D	0.	QC101020-AB	Aqueous Blank	30 Oct 2010 03:05
13	13	E102913.D	0.	QC101020-SBS	Soil Blank Spike	30 Oct 2010 04:21
14	14	E102914.D	0.	QC101020-ABS	Aqueous Blank Spike	30 Oct 2010 05:36
15	15	E102915.D	0.	AE101015-01	BBNPP-CW1-C	30 Oct 2010 06:52
16	16	E102916.D	0.	AE101015-02	BBNPP-CW2-C	30 Oct 2010 08:07
17	17	E102917.D	0.	AE101015-03	BBNPP-CW3-C	30 Oct 2010 09:22
18	18	E102918.D	0.	AE101015-04	BBNPP-CW6-C	30 Oct 2010 10:38
19	19	E102919.D	0.	AE101015-05	BBNPP-CW9-C	30 Oct 2010 11:53
20	20	E102920.D	0.	DCM		30 Oct 2010 13:09
21	21	E102921.D	0.	A978 ✓		30 Oct 2010 14:25
22	22	E102922.D	0.	B037 ✓		30 Oct 2010 15:41
23	23	E102923.D	0.	AE101015-06	BBNPP-CW12-C	30 Oct 2010 16:57
24	24	E102924.D	0.	AE101015-07	BBNPP-CW5-C	30 Oct 2010 18:13
25	25	E102925.D	0.	AE101015-07MS	Matrix Spike of BBNPP-CW5-C	30 Oct 2010 19:29
26	26	E102926.D	0.	AE101015-07MSD	Matrix Spike Duplicate of BBNPP-CW5-C	30 Oct 2010 20:45
27	27	E102927.D	0.	AE101015-08	BBNPP-CW8-C	30 Oct 2010 22:01
28	28	E102928.D	0.	AE101015-09	BBNPP-CW11-C	30 Oct 2010 23:17
29	29	E102929.D	0.	AE101015-10	BBNPP-CW14-C	31 Oct 2010 00:33
30	30	E102930.D	0.	AE101015-11	BBNPP-CW17-C	31 Oct 2010 01:49
31	31	E102931.D	0.	AE101015-12	BBNPP-CW20-C	31 Oct 2010 03:05
32	32	E102932.D	0.	AE101015-13	BBNPP-CW23-C	31 Oct 2010 04:21
33	33	E102933.D	0.	DCM		31 Oct 2010 05:37
34	34	E102934.D	0.	A978 ✓		31 Oct 2010 06:53
35	35	E102935.D	0.	B037 ✓		31 Oct 2010 08:09
36	36	E102936.D	0.	AE101015-14	BBNPP-CW20-C FD	31 Oct 2010 09:25

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
37	37	E102937.D	0.	AE101015-15	BBNPP-D2	31 Oct 2010 10:41
38	38	E102938.D	0.	AE101015-16	BBNPP-D1	31 Oct 2010 11:57
39	39	E102939.D	0.	AE101015-17	BBNPP-R-C	31 Oct 2010 13:14
40	40	E102940.D	0.	AE101015-17MS	Matrix Spike of BBNPP-R-C	31 Oct 2010 14:30
41	41	E102941.D	0.	AE101015-17MSD	Matrix Spike Duplicate of BBNPP-R-C	31 Oct 2010 15:47
42	42	E102942.D	0.	AE101015-18	BBNPP-CW22-C	31 Oct 2010 17:03
43	43	E102943.D	0.	AE101015-19	BBNPP-C-EB	31 Oct 2010 18:19
44	44	E102944.D	0.	AE101015-20	BBNPP-PB	31 Oct 2010 19:35
45	45	E102945.D	0.	AE101015-20MS	Matrix Spike of BBNPP-PB	31 Oct 2010 20:51
46	46	E102946.D	0.	DCM		31 Oct 2010 22:06
47	47	E102947.D	0.	A978		31 Oct 2010 23:21
48	48	E102948.D	0.	B037		1 Nov 2010 00:36
49	49	E102949.D	0.	AE101015-20MSD	Matrix Spike Duplicate of BBNPP-PB	1 Nov 2010 01:51
50	50	E102950.D	0.	AE101015-21	BBNPP-CW4-C	1 Nov 2010 03:06
51	51	E102951.D	0.	AE101015-22	BBNPP-CW7-C	1 Nov 2010 04:20
52	52	E102952.D	0.	AE101015-23	BBNPP-CW10-C	1 Nov 2010 05:35
53	53	E102953.D	0.	AE101015-24	BBNPP-CW13-C	1 Nov 2010 06:49
54	54	E102954.D	0.	AE101015-25	BBNPP-CW16-C	1 Nov 2010 08:03
55	55	E102955.D	0.	AE101015-26	BBNPP-CW19-C	1 Nov 2010 09:18
56	56	E102956.D	0.	AE101015-27	BBNPP-D1-C-FD	1 Nov 2010 10:32
57	57	E102957.D	0.	AE101019-01	BBNPP-CW9-C-FD	1 Nov 2010 11:46
58	58	E102958.D	0.	AE101019-02	BBNPP-CW15-C	1 Nov 2010 13:03
59	59	E102959.D	0.	DCM		1 Nov 2010 14:19
60	60	E102960.D	0.	A978		1 Nov 2010 15:35
61	61	E102961.D	0.	B037		1 Nov 2010 16:52
62	62	E102962.D	0.	AE101019-03	BBNPP-CW18-C	1 Nov 2010 18:08
63	63	E102963.D	0.	AE101019-04	BBNPP-CW21-C	1 Nov 2010 19:23
64	64	E102964.D	0.	[redacted]	[redacted]	1 Nov 2010 20:39
65	65	E102965.D	0.	[redacted]	[redacted]	1 Nov 2010 21:54
66	66	E102966.D	0.	[redacted]	[redacted]	1 Nov 2010 23:09
67	67	E102967.D	0.	[redacted]	[redacted]	2 Nov 2010 00:24

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
68	68	E102968.D	0.	[redacted]	[redacted]	2 Nov 2010 01:39
69	69	E102969.D	0.	[redacted]	[redacted]	2 Nov 2010 02:54
70	70	E102970.D	0.	[redacted]	[redacted]	2 Nov 2010 04:08
71	71	E102971.D	0.	DCM		2 Nov 2010 05:23
72	72	E102972.D	0.	A978 ✓		2 Nov 2010 06:38
73	73	E102973.D	0.	B037 ✓	TEL @ 1.0	2 Nov 2010 07:53

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102910.D
Acq On : 30 Oct 2010 12:33 am
Operator : JAR
Sample : QC101020-SB
Misc : Soil Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 08:01:53 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

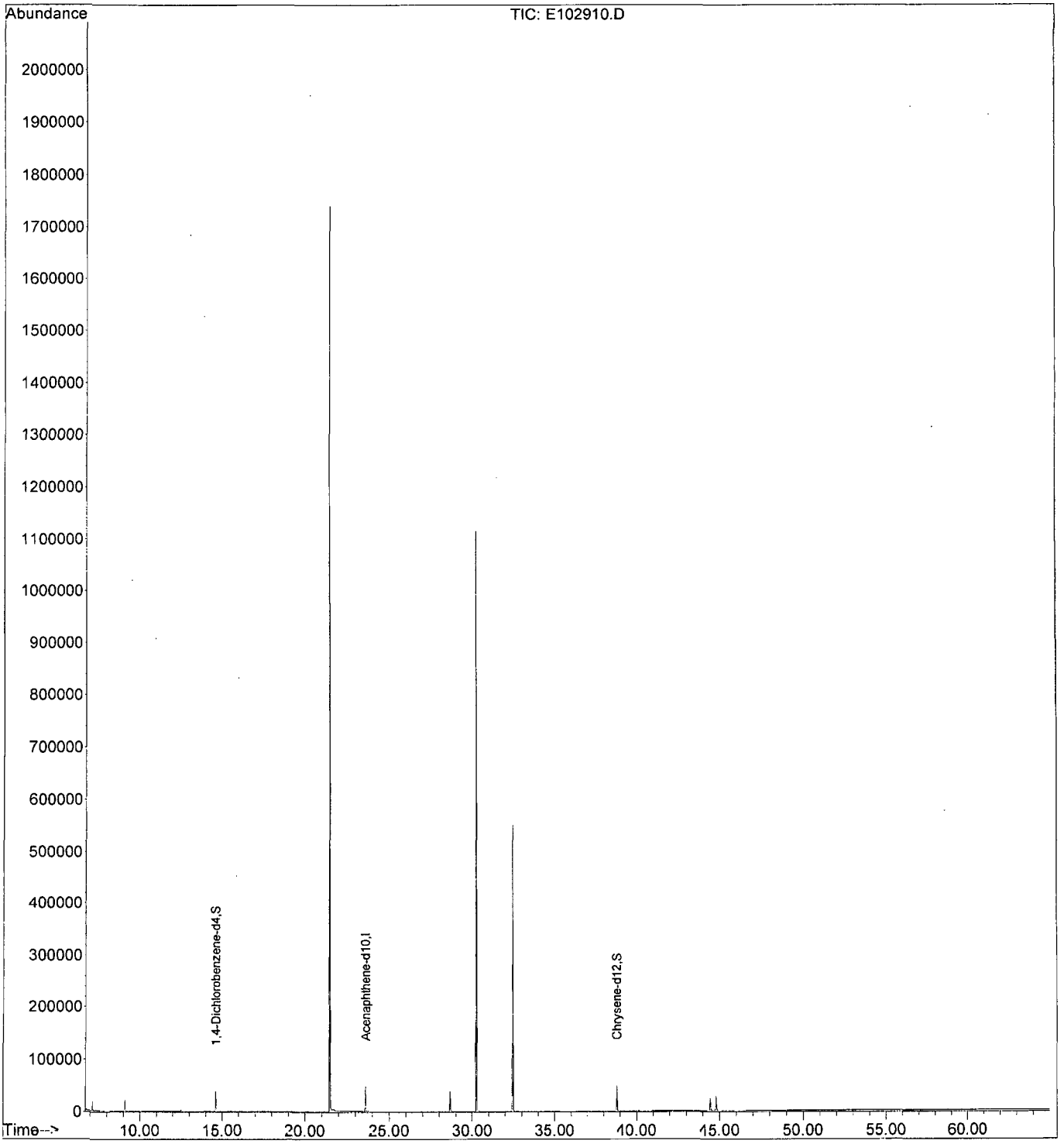
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	49997	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26889	0.791	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	81066	0.742	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

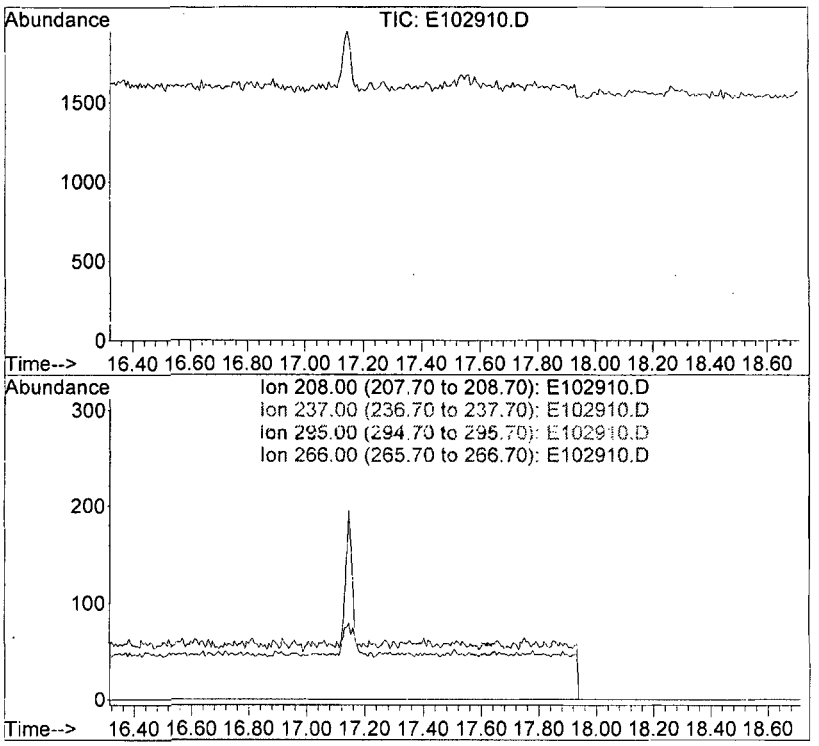
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102910.D
Acq On : 30 Oct 2010 12:33 am
Operator : JAR
Sample : QC101020-SB
Misc : Soil Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 08:01:53 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



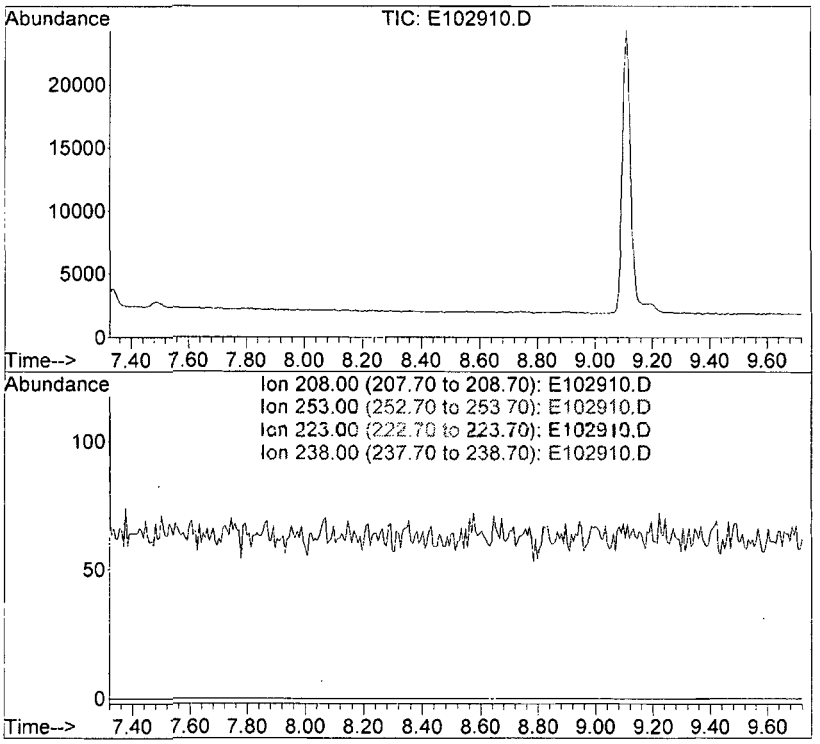


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102910.D
Acq: 30 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

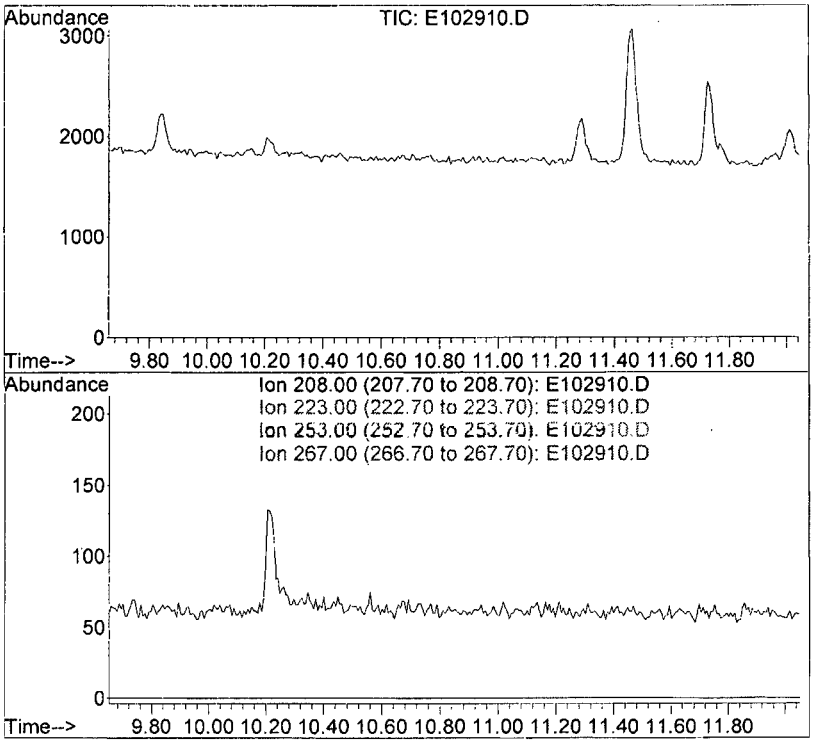


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102910.D
Acq: 30 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

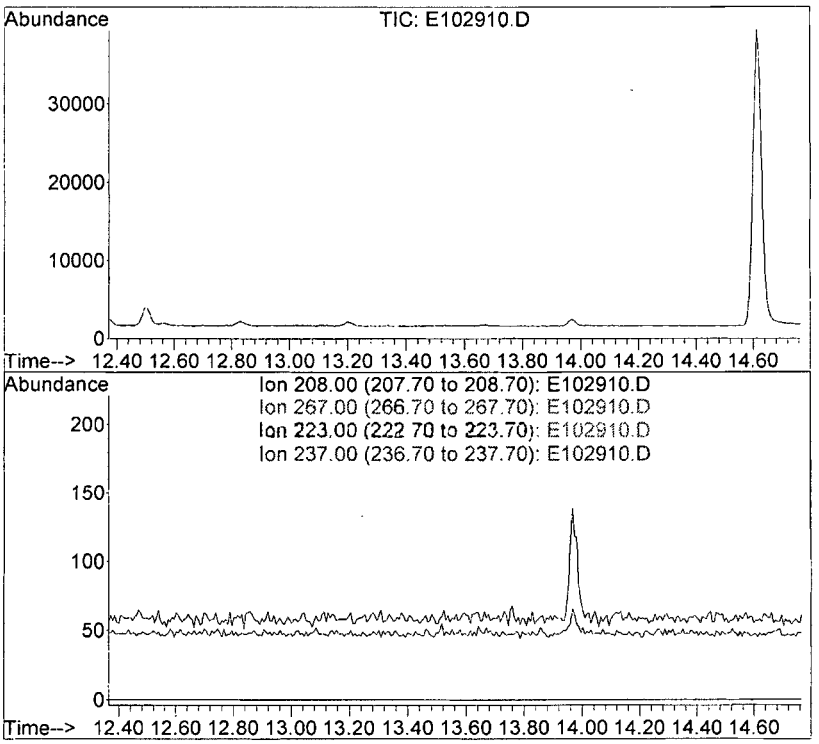


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102910.D
Acq: 30 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

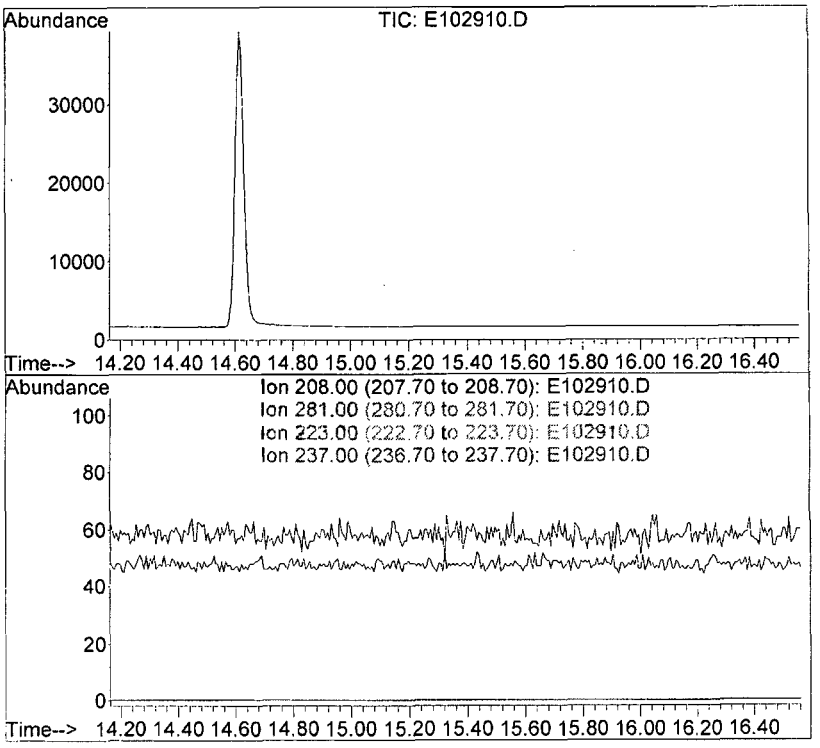


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102910.D
Acq: 30 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102910.D
Acq: 30 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102910.D
Acq On : 30 Oct 2010 12:33 am
Operator : JAR
Sample : QC101020-SB
Misc : Soil Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 08:39:27 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	49997	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	29290	0.495	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	49.00%	
3) Toluene-d8	9.11	98	44987	0.710	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	71.00%	
4) Phenanthrene-d10	28.66	188	84582	0.810	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
5) Benzo(a)pyrene-d12	44.45	264	61166	0.983	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	98.00%	
6) Perylene-d12	44.80	264	64660	0.831	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	83.00%	

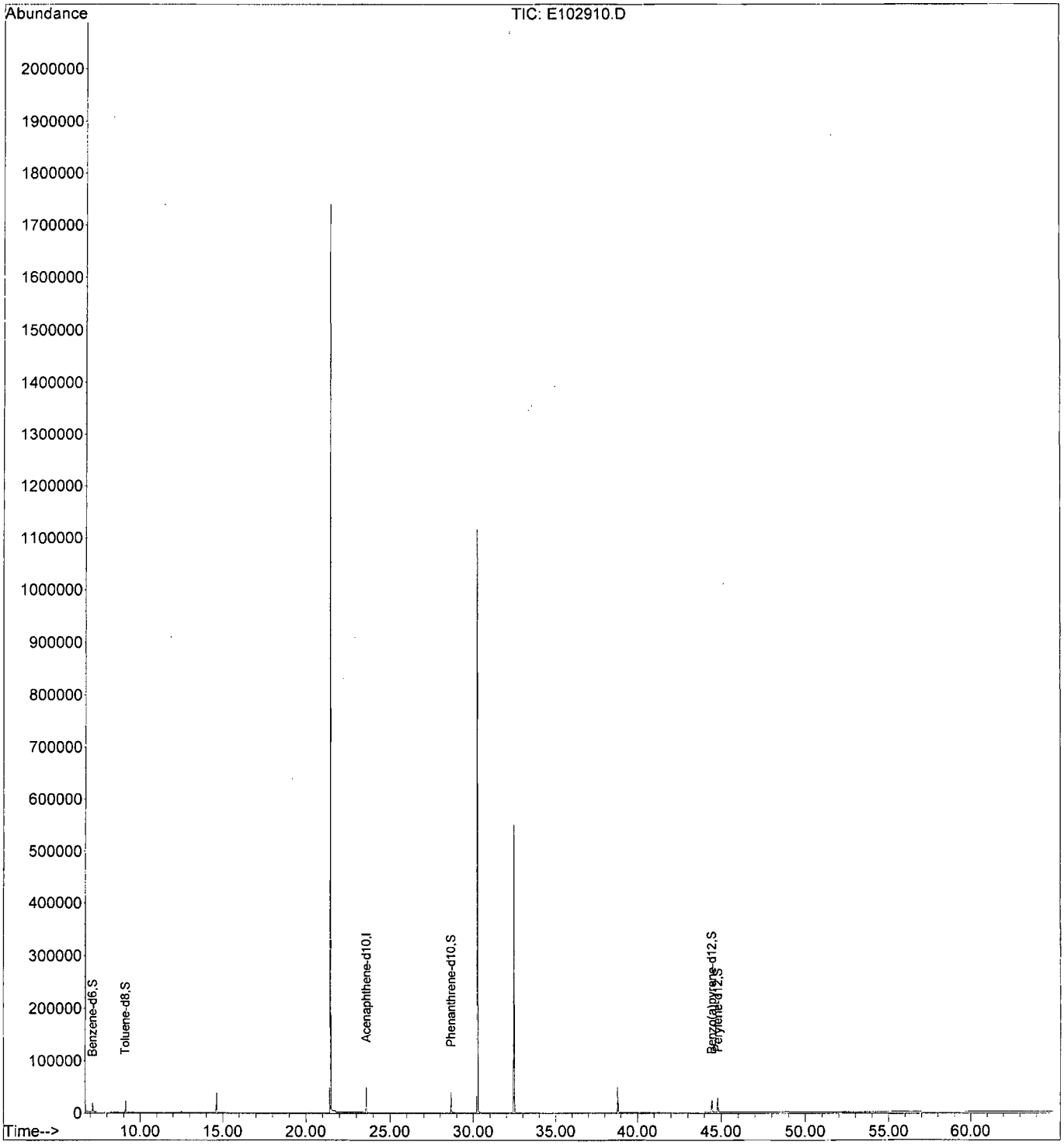
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102910.D
Acq On : 30 Oct 2010 12:33 am
Operator : JAR
Sample : QC101020-SB
Misc : Soil Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 01 08:39:27 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102911.D
Acq On : 30 Oct 2010 1:49 am
Operator : JAR
Sample : QC101020-SB1
Misc : Soil Blank
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 08:01:55 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

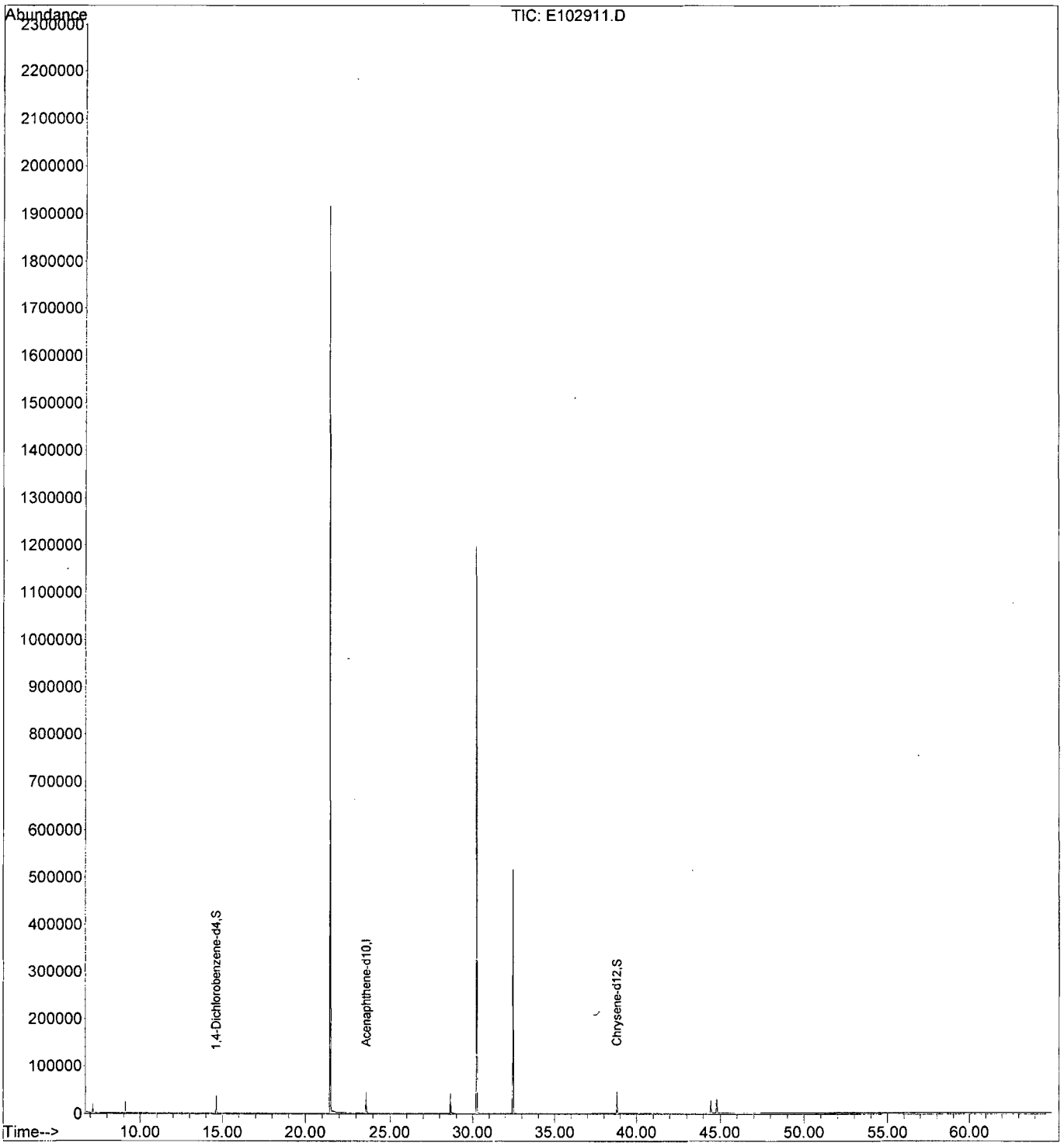
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47245	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25660	0.799	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.80	240	76148	0.738	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

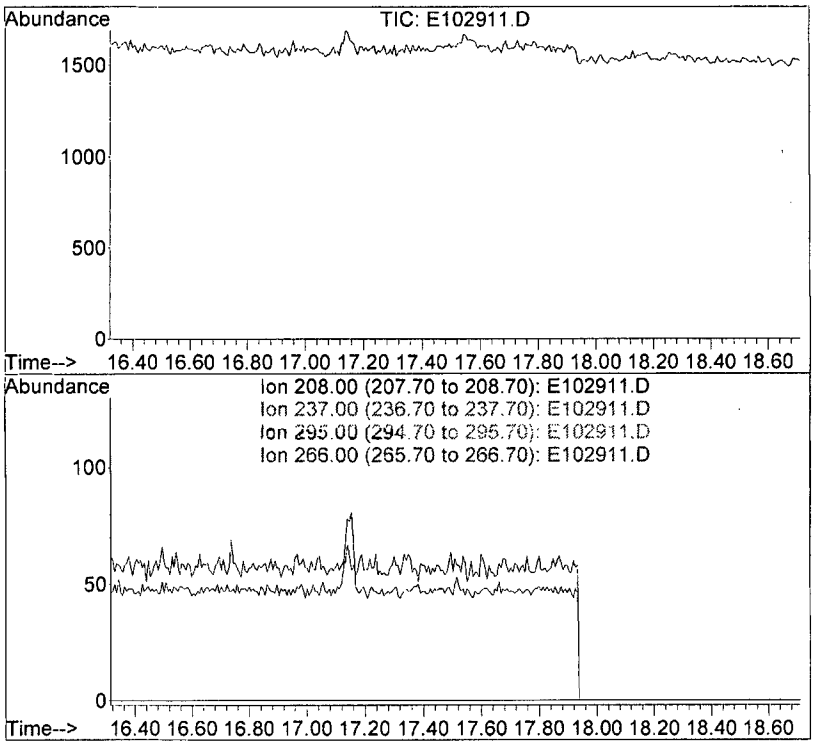
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102911.D
Acq On : 30 Oct 2010 1:49 am
Operator : JAR
Sample : QC101020-SB1
Misc : Soil Blank
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 08:01:55 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



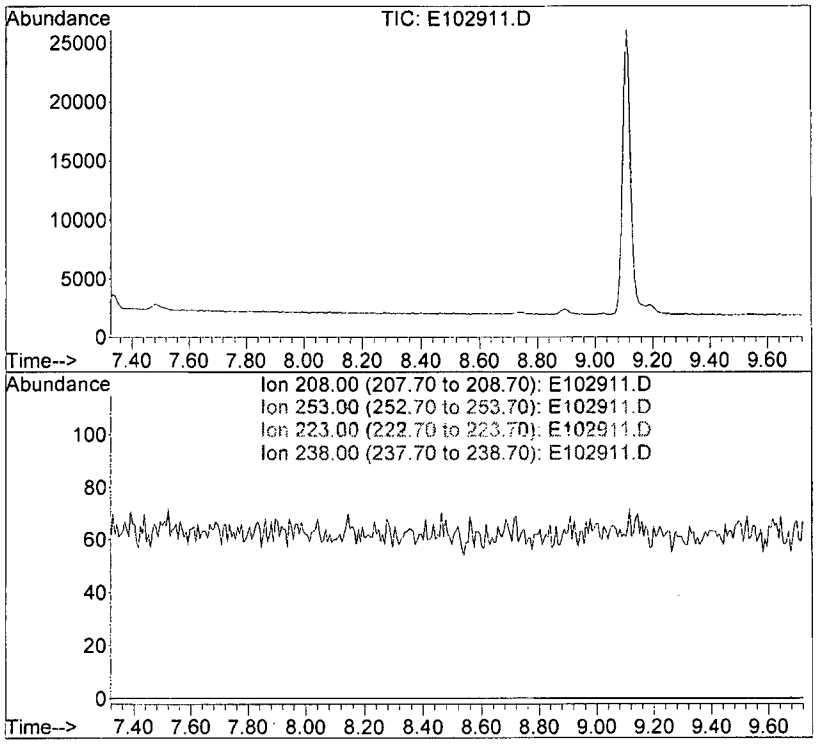


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102911.D
Acq: 30 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

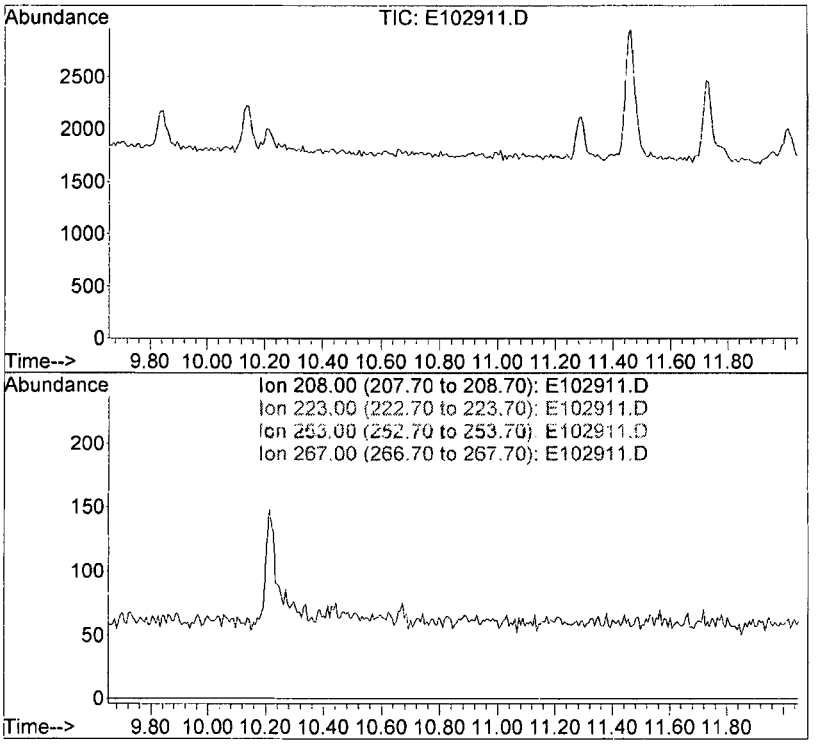


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102911.D
Acq: 30 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

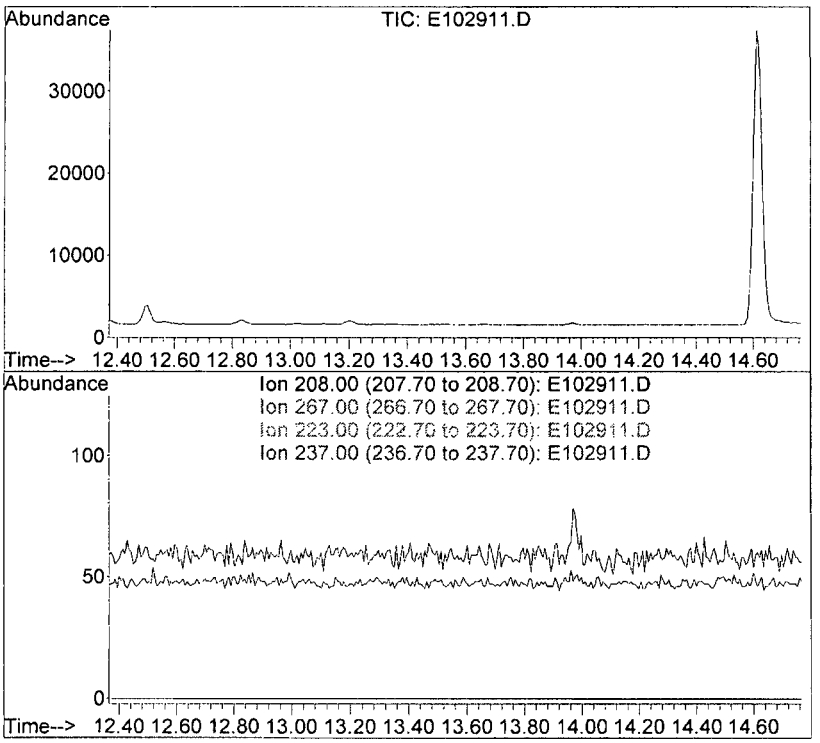


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102911.D
Acq: 30 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

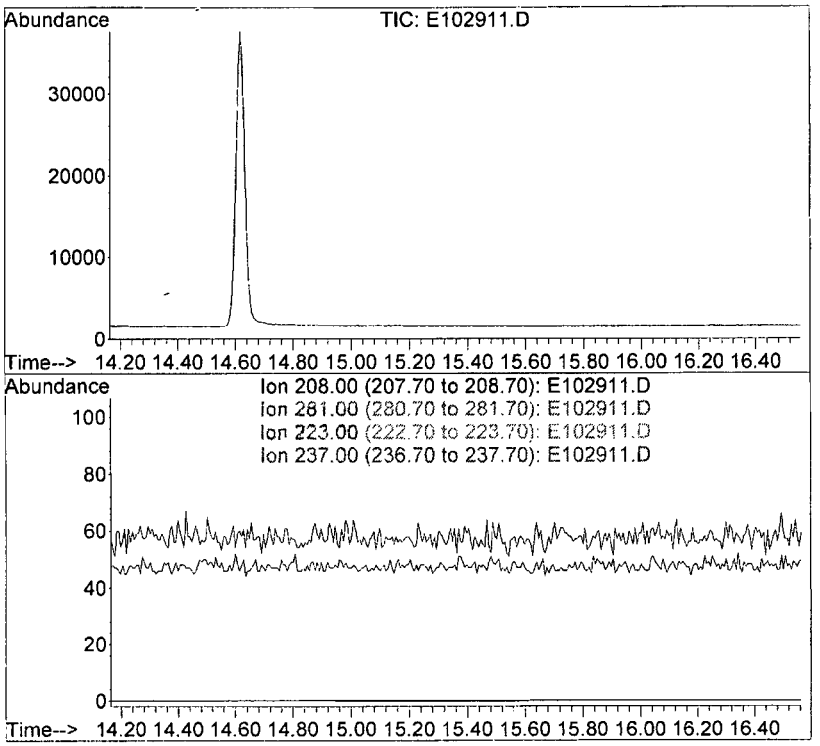


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102911.D
Acq: 30 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102911.D
Acq: 30 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102911.D
Acq On : 30 Oct 2010 1:49 am
Operator : JAR
Sample : QC101020-SB1
Misc : Soil Blank
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 08:39:29 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47317	1.000 µg/mL	0.00
System Monitoring Compounds					
2) Benzene-d6	7.14	84	32432	0.579 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 58.00%	
3) Toluene-d8	9.11	98	48651	0.812 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 81.00%	
4) Phenanthrene-d10	28.66	188	92356	0.935 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 93.00%	
5) Benzo(a)pyrene-d12	44.45	264	66455	1.129 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 113.00%	
6) Perylene-d12	44.80	264	70743	0.960 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 96.00%	

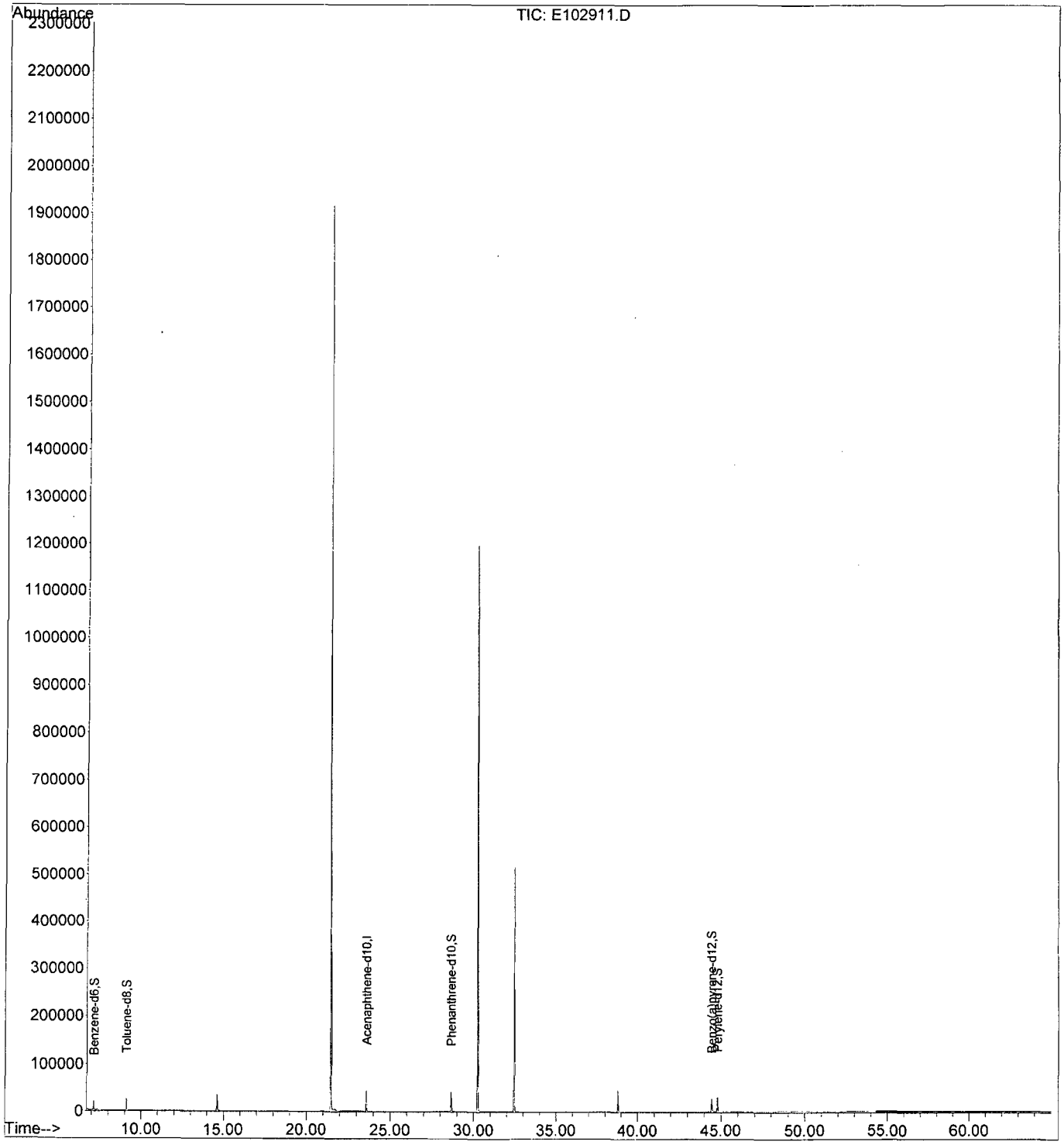
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102911.D
Acq On : 30 Oct 2010 1:49 am
Operator : JAR
Sample : QC101020-SB1
Misc : Soil Blank
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 08:39:29 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102912.D
Acq On : 30 Oct 2010 3:05 am
Operator : JAR
Sample : QC101020-AB
Misc : Aqueous Blank
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 08:01:57 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

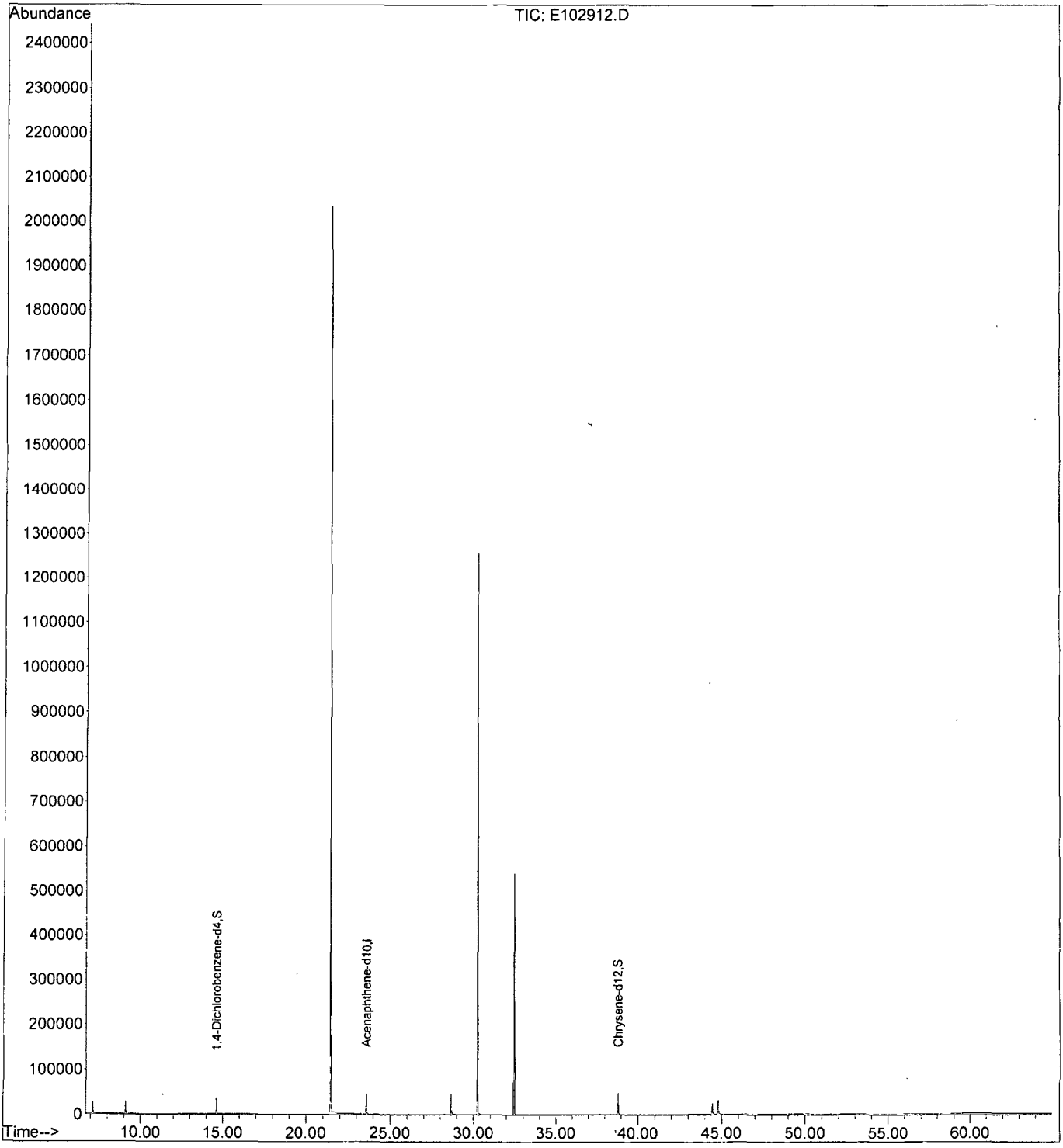
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48031	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25813	0.791	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	77418	0.738	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

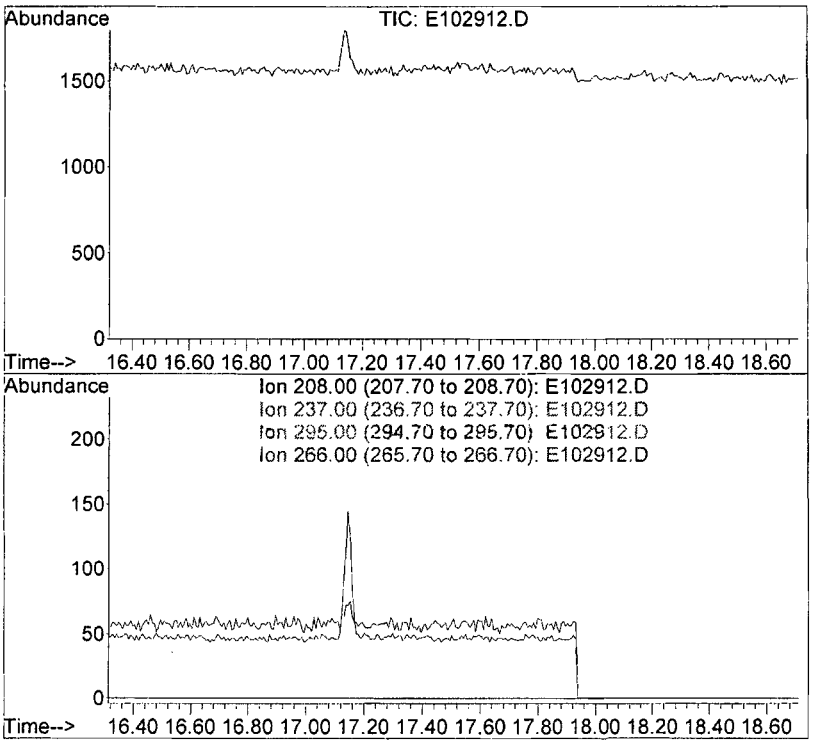
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102912.D
Acq On : 30 Oct 2010 3:05 am
Operator : JAR
Sample : QC101020-AB
Misc : Aqueous Blank
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 08:01:57 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



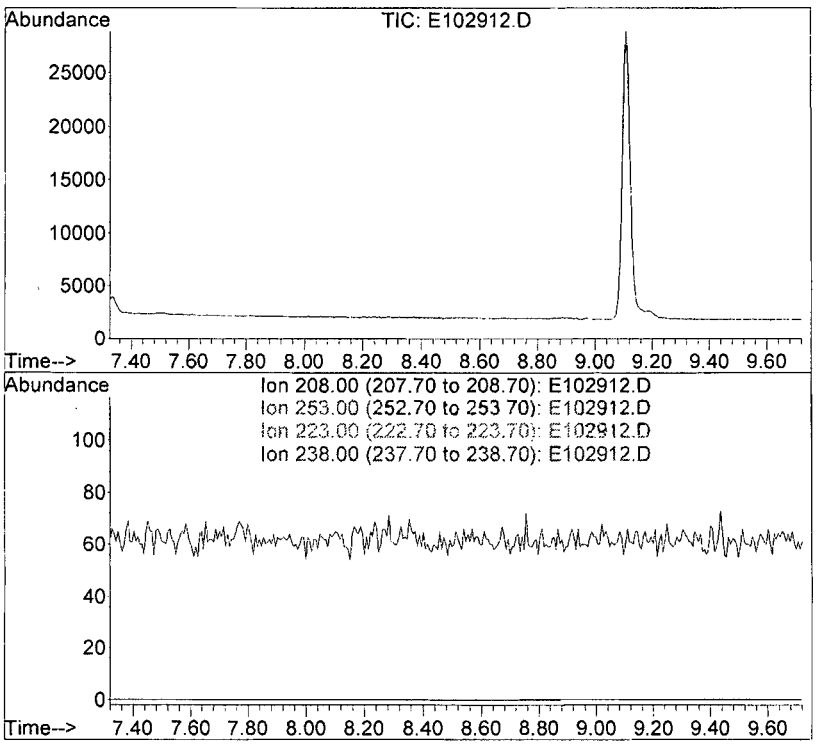


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102912.D
Acq: 30 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

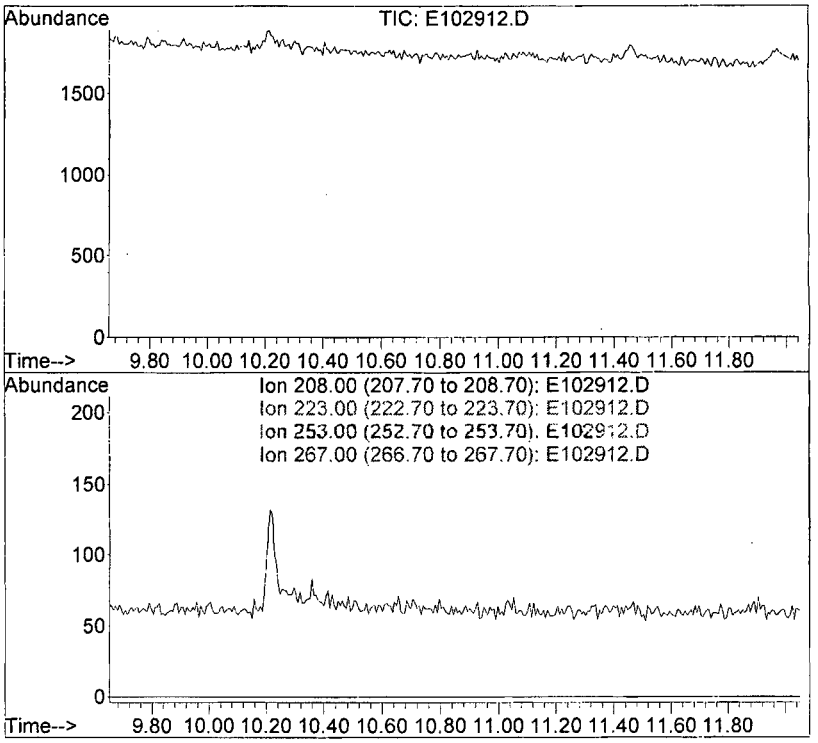


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102912.D
Acq: 30 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

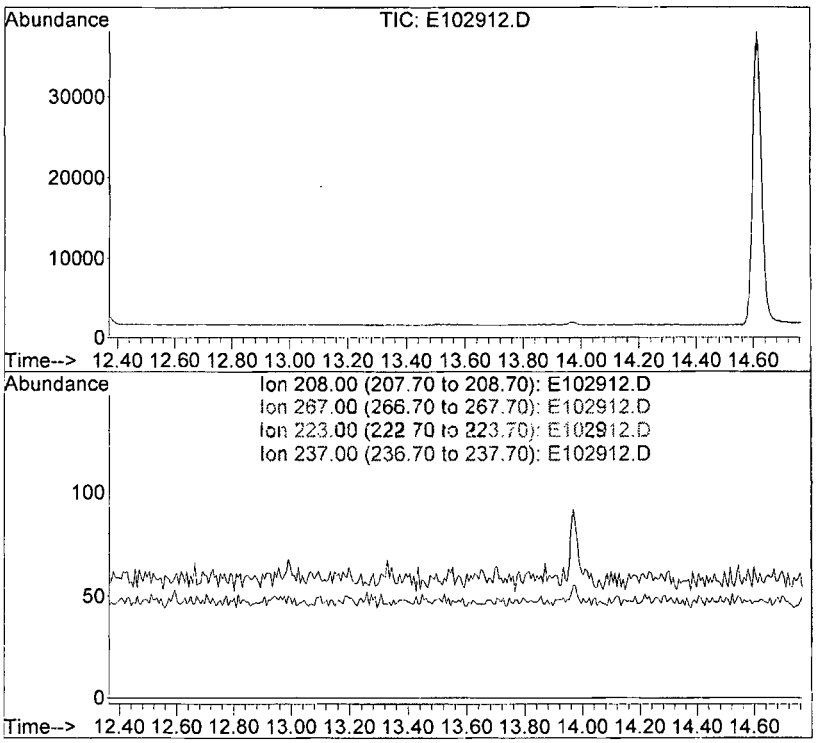


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102912.D
Acq: 30 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

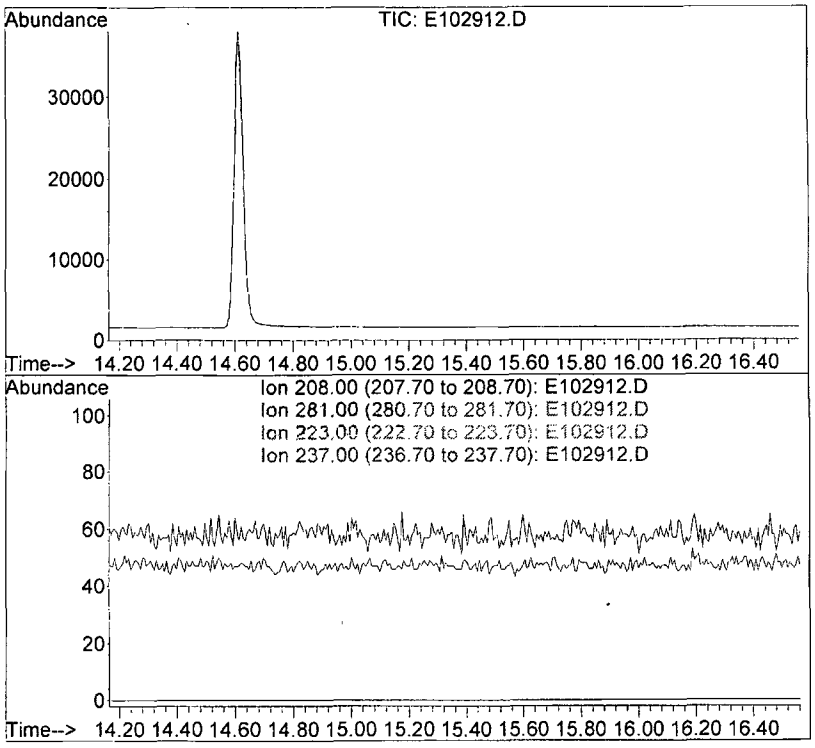


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102912.D
Acq: 30 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102912.D
Acq: 30 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102912.D
Acq On : 30 Oct 2010 3:05 am
Operator : JAR
Sample : QC101020-AB
Misc : Aqueous Blank
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 08:39:31 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48031	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	42549	0.748	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
3) Toluene-d8	9.11	98	53707	0.883	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	88.00%	
4) Phenanthrene-d10	28.65	188	97865	0.976	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
5) Benzo(a)pyrene-d12	44.45	264	69226	1.159	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	116.00%	
6) Perylene-d12	44.80	264	72819	0.974	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	97.00%	

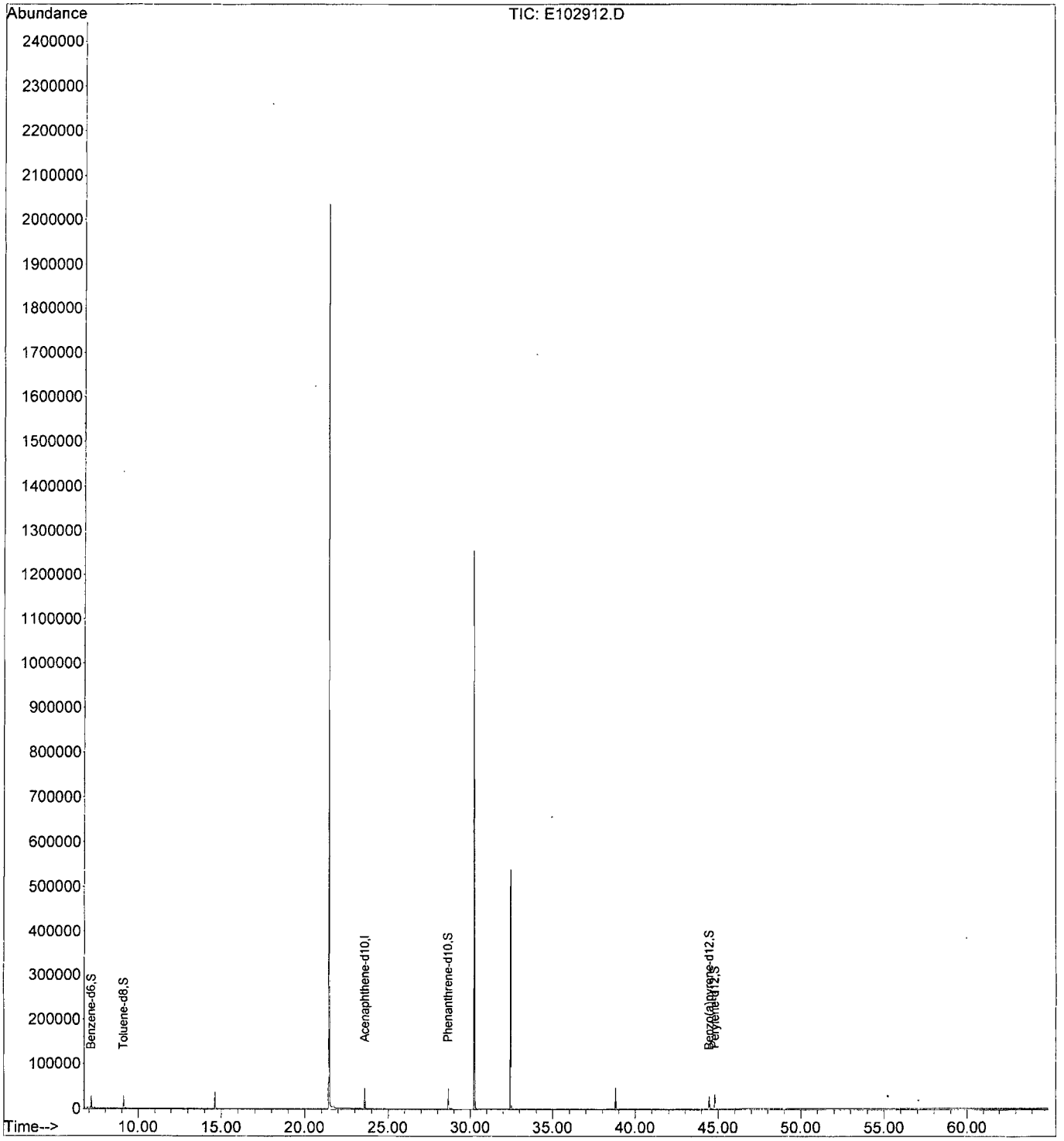
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102912.D
Acq On : 30 Oct 2010 3:05 am
Operator : JAR
Sample : QC101020-AB
Misc : Aqueous Blank
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 08:39:31 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102913.D
Acq On : 30 Oct 2010 4:21 am
Operator : JAR
Sample : QC101020-SBS
Misc : Soil Blank Spike
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 01 08:01:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

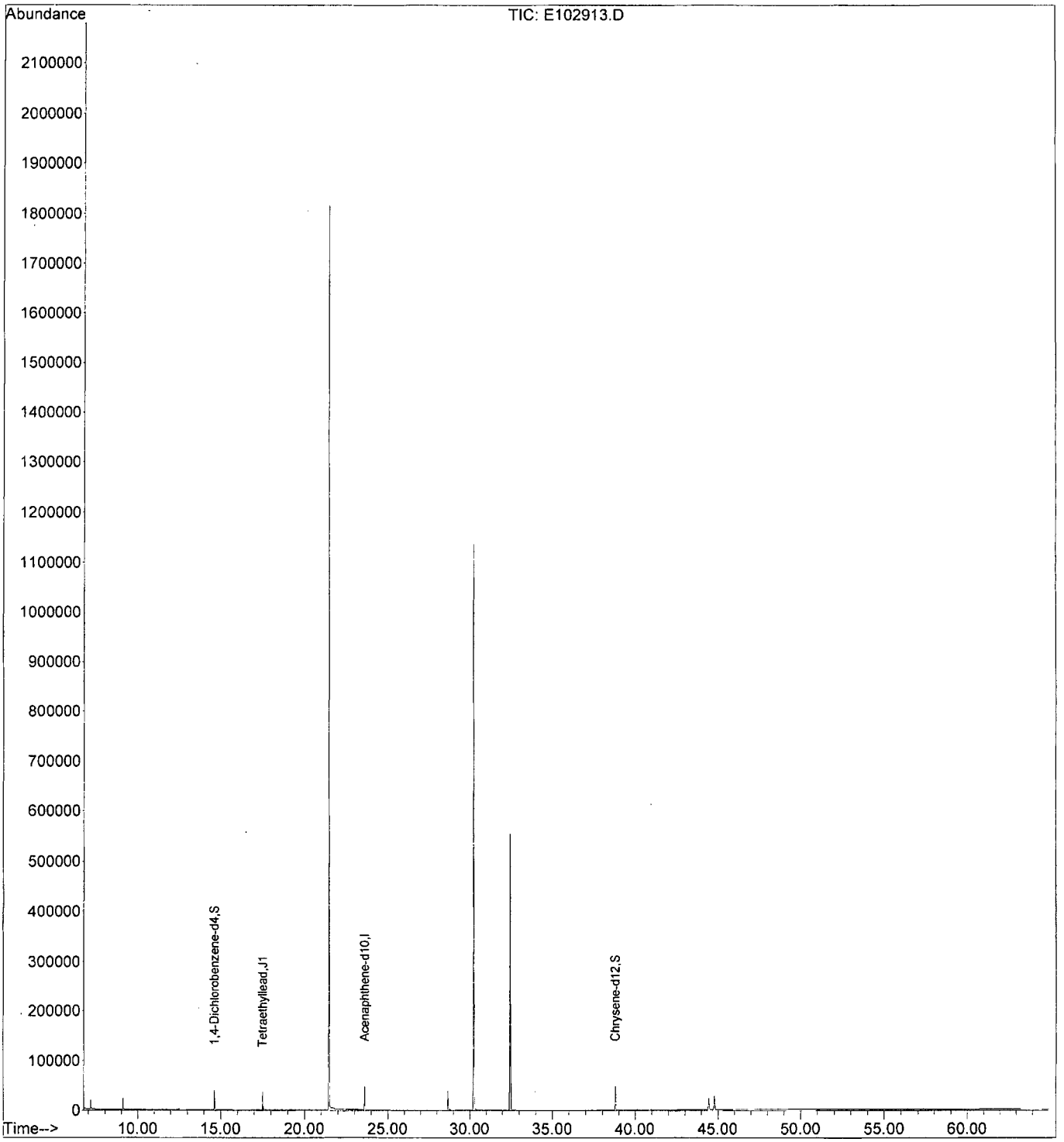
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	49261	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26964	0.805	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.80	240	78923	0.734	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	21461	1.622	ug/mL#	48
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

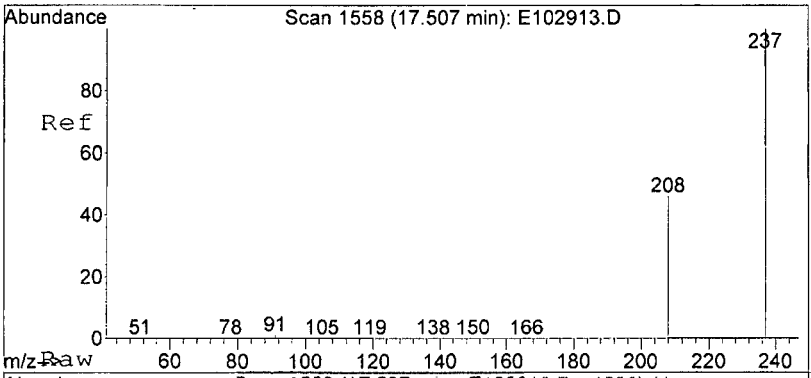
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102913.D
Acq On : 30 Oct 2010 4:21 am
Operator : JAR
Sample : QC101020-SBS
Misc : Soil Blank Spike
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 01 08:01:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

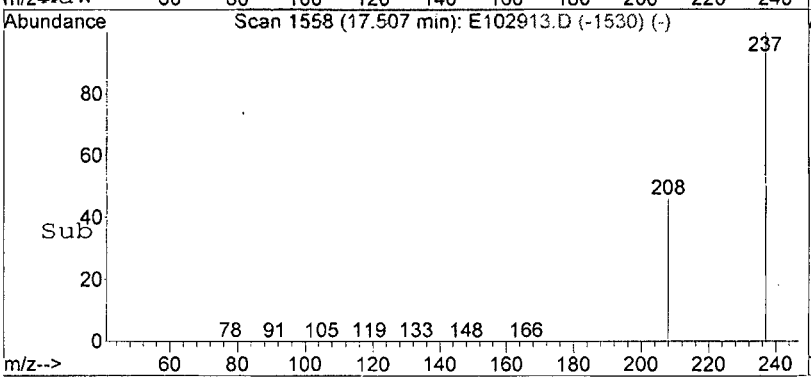


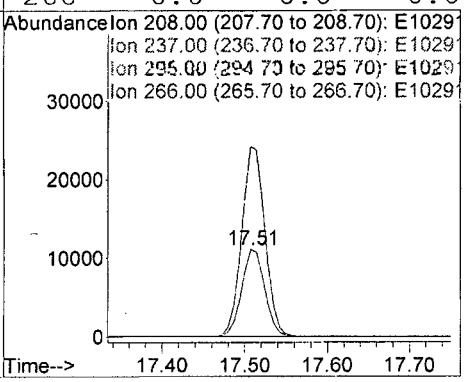


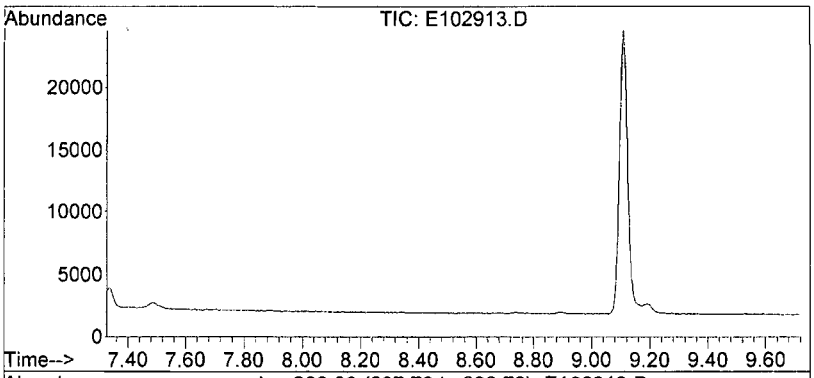
#4
Tetraethyllead
Concen: 1.622 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102913.D
Acq: 30 Oct 2010 4:21 am

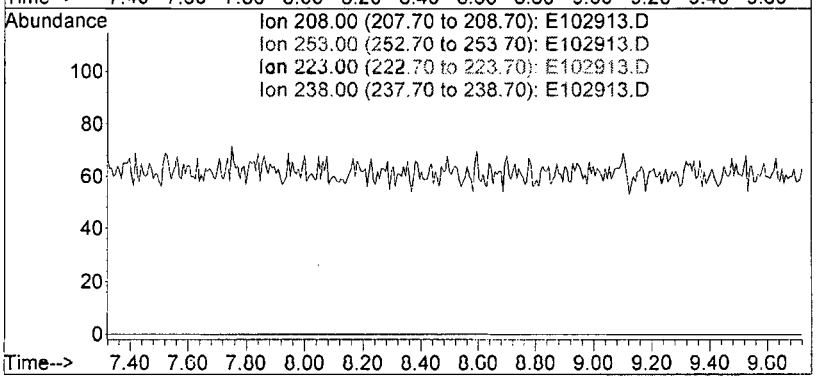
Tgt Ion:208 Resp: 21461

Ion	Ratio	Lower	Upper
208	100		
237	218.2	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







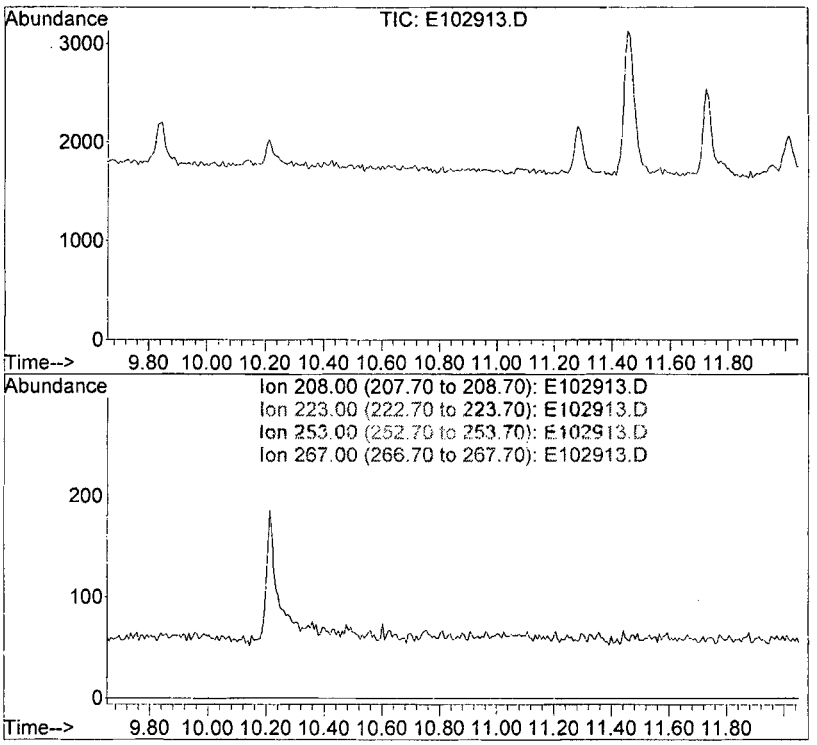


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102913.D
Acq: 30 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

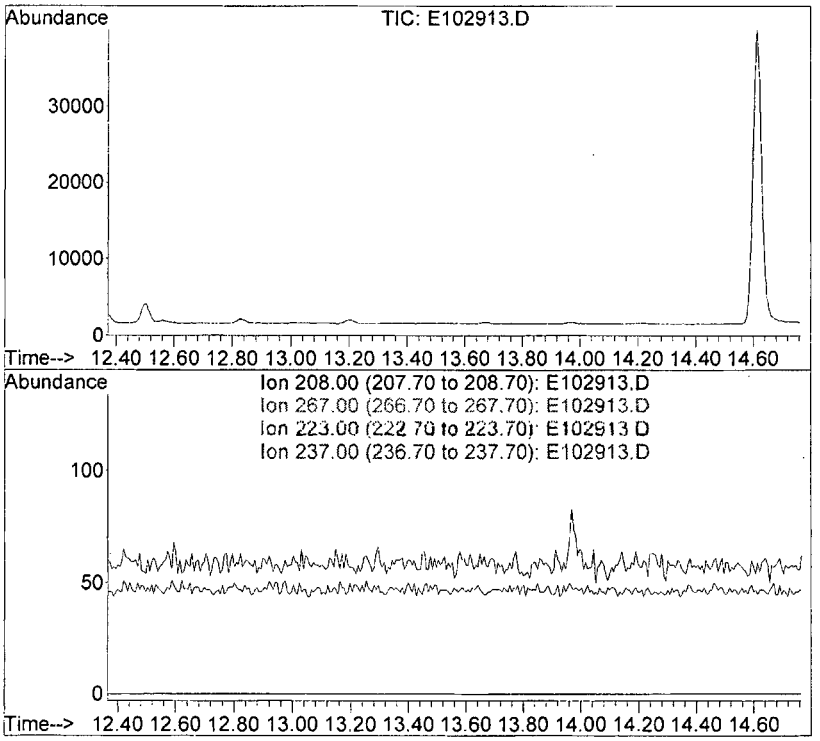


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102913.D
Acq: 30 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

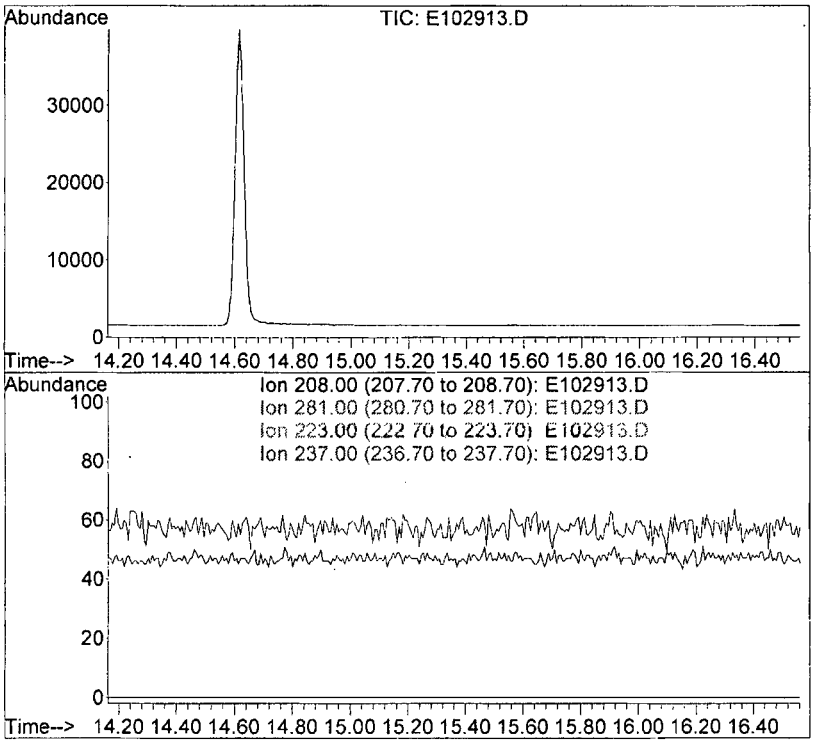


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102913.D
Acq: 30 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102913.D
Acq: 30 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102913.D
Acq On : 30 Oct 2010 4:21 am
Operator : JAR
Sample : QC101020-SBS
Misc : Soil Blank Spike
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 01 08:39:33 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	49296	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	28940	0.496	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
3) Toluene-d8	9.11	98	45812	0.734	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	73.00%	
4) Phenanthrene-d10	28.65	188	84491	0.821	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	82.00%	
5) Benzo(a)pyrene-d12	44.45	264	60232	0.982	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	98.00%	
6) Perylene-d12	44.80	264	64422	0.839	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	84.00%	

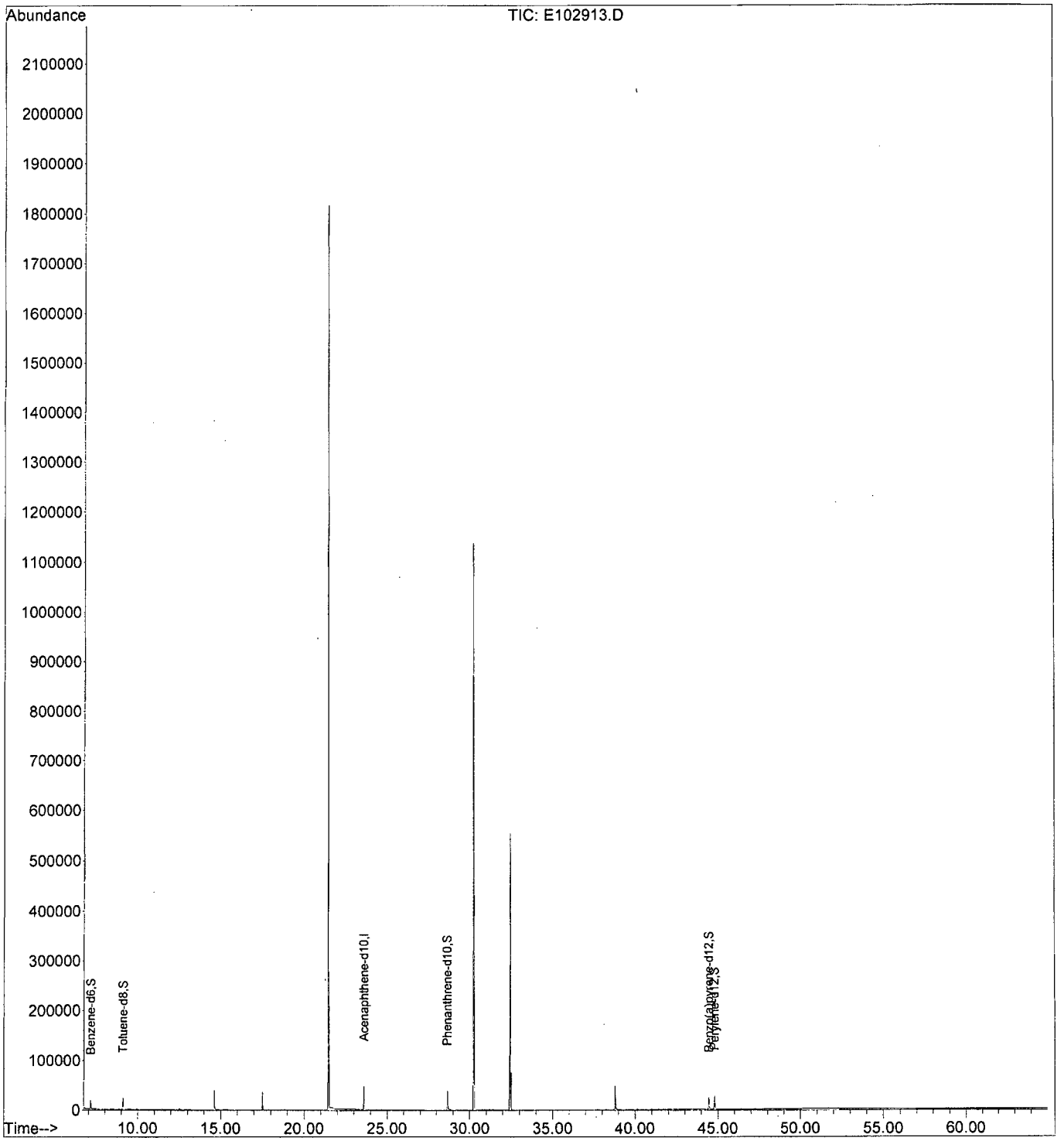
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102913.D
Acq On : 30 Oct 2010 4:21 am
Operator : JAR
Sample : QC101020-SBS
Misc : Soil Blank Spike
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 01 08:39:33 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102914.D
Acq On : 30 Oct 2010 5:36 am
Operator : JAR
Sample : QC101020-ABS
Misc : Aqueous Blank Spike
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 08:02:01 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

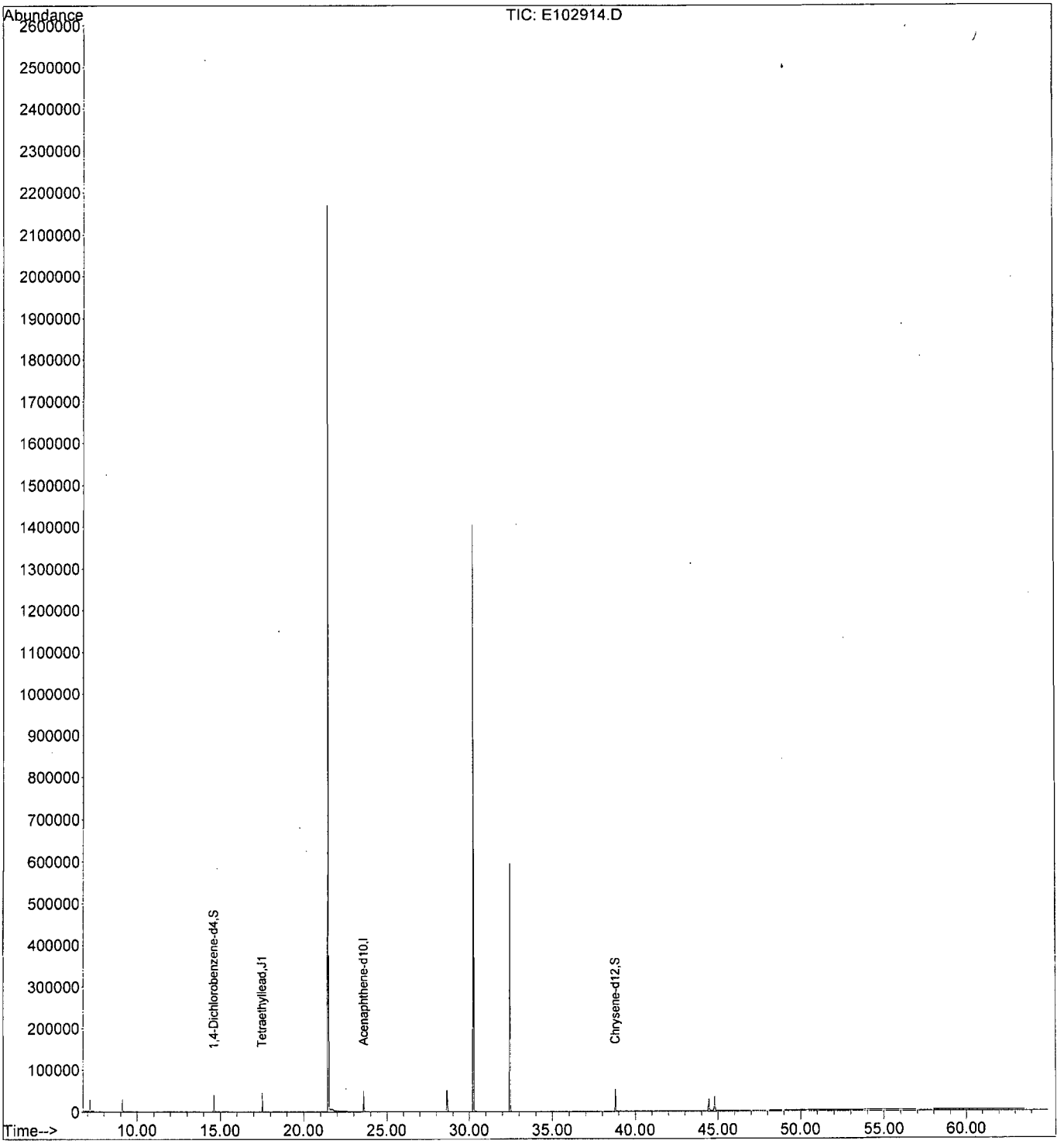
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	52090	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	28263	0.798	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.80	240	84187	0.740	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	26863	1.916	ug/mL#	49
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

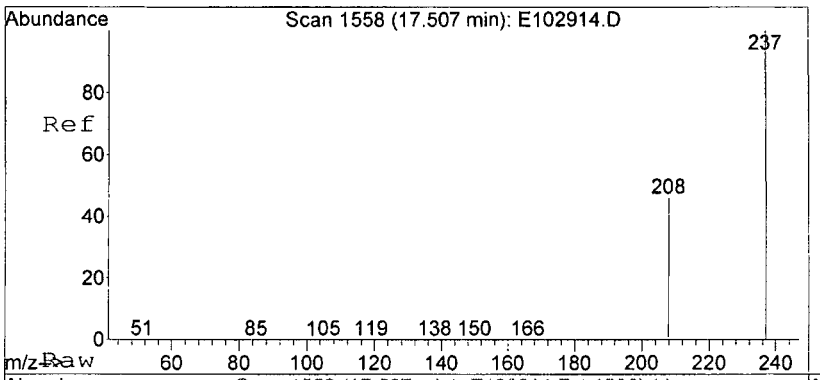
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102914.D
Acq On : 30 Oct 2010 5:36 am
Operator : JAR
Sample : QC101020-ABS
Misc : Aqueous Blank Spike
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 08:02:01 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

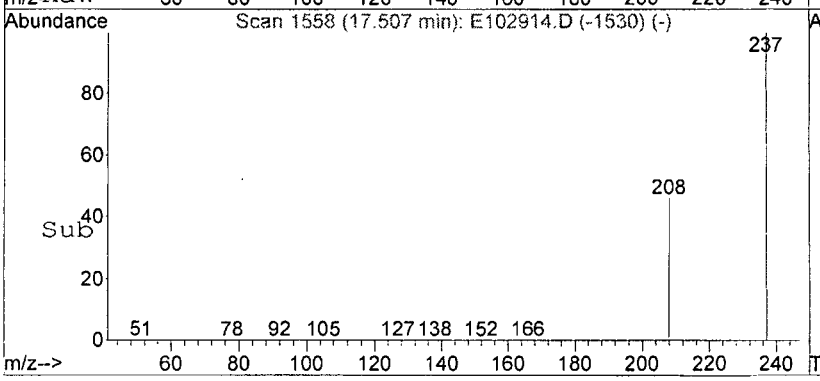


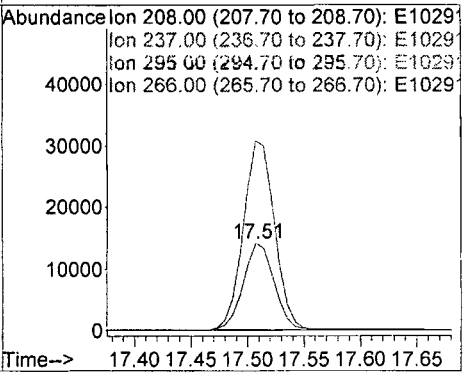


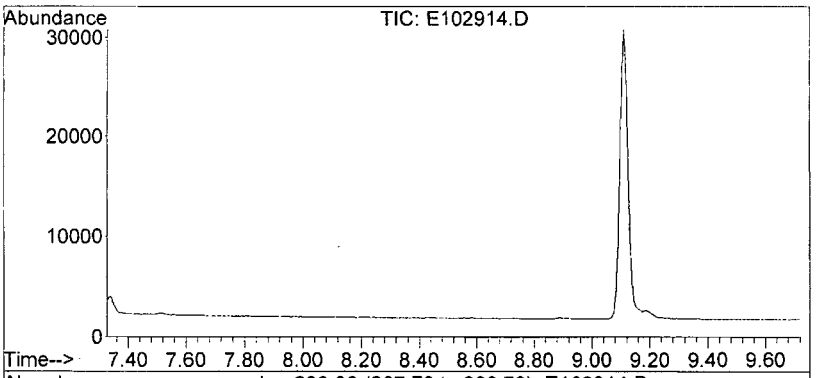
#4
Tetraethyllead
Concen: 1.916 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102914.D
Acq: 30 Oct 2010 5:36 am

Tgt Ion:208 Resp: 26863

Ion	Ratio	Lower	Upper
208	100		
237	217.7	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0





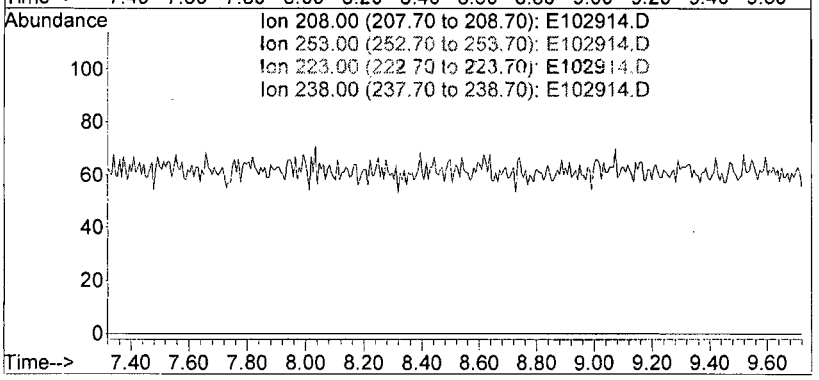


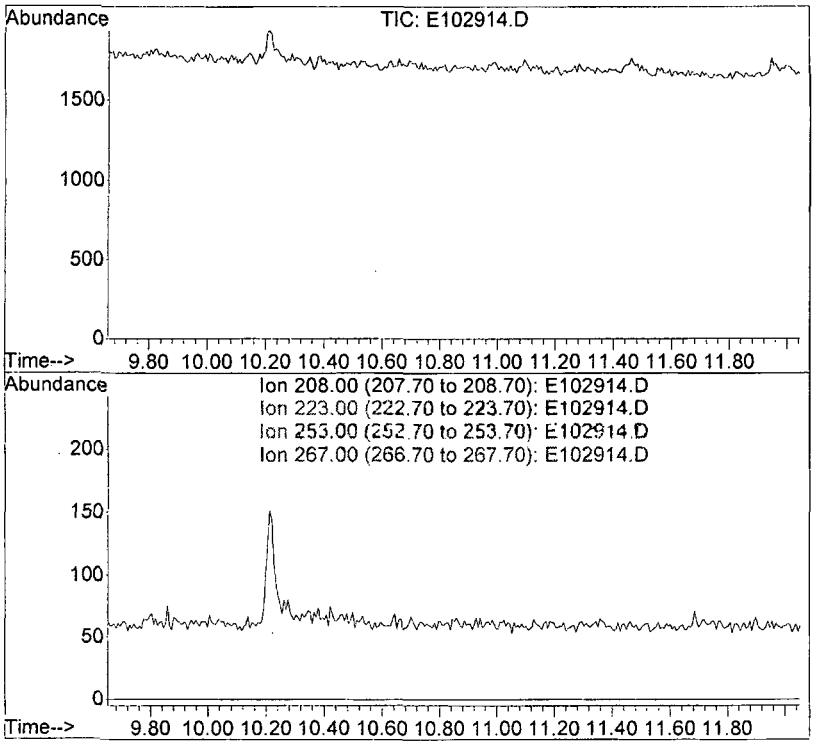
#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102914.D
Acq: 30 Oct 2010 5:36 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0



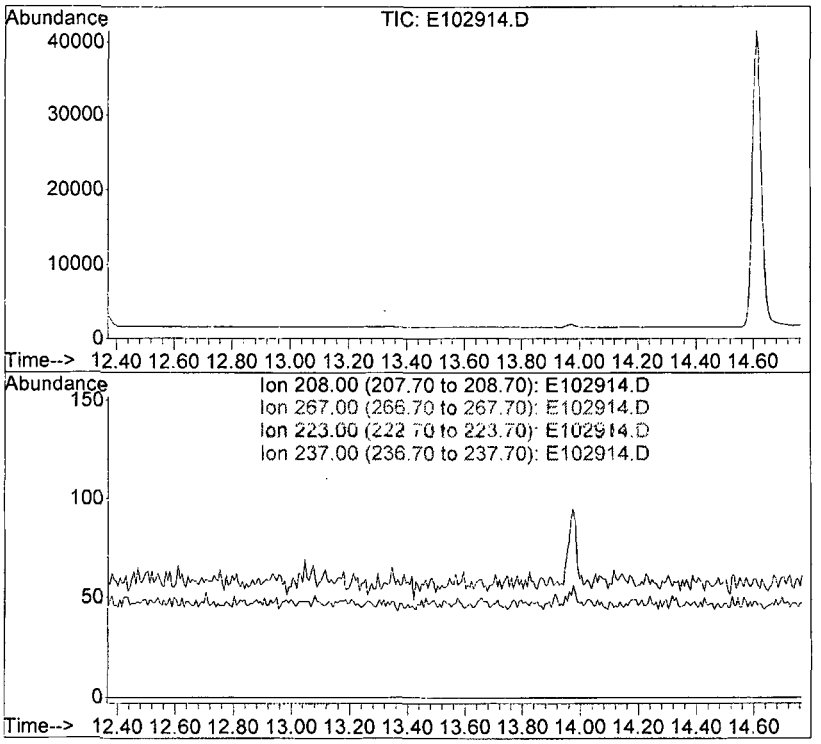


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102914.D
Acq: 30 Oct 2010 5:36 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

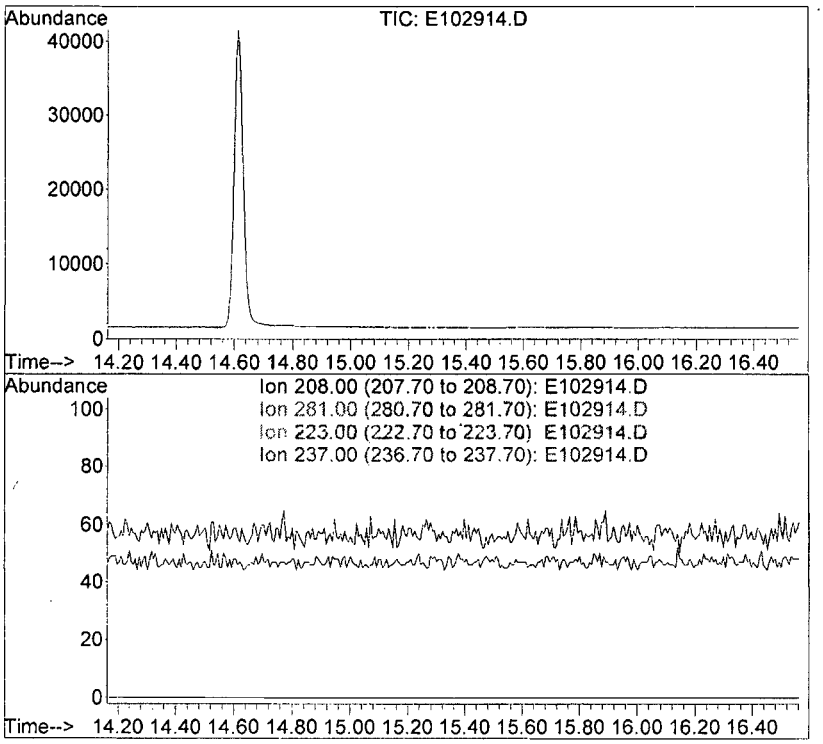


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102914.D
Acq: 30 Oct 2010 5:36 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102914.D
Acq: 30 Oct 2010 5:36 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102914.D
Acq On : 30 Oct 2010 5:36 am
Operator : JAR
Sample : QC101020-ABS
Misc : Aqueous Blank Spike
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 08:39:35 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	52175	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	44972	0.728	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	73.00%	
3) Toluene-d8	9.11	98	57759	0.874	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	87.00%	
4) Phenanthrene-d10	28.65	188	105347	0.967	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
5) Benzo(a)pyrene-d12	44.45	264	74274	1.144	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	114.00%	
6) Perylene-d12	44.80	264	78586	0.967	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	97.00%	

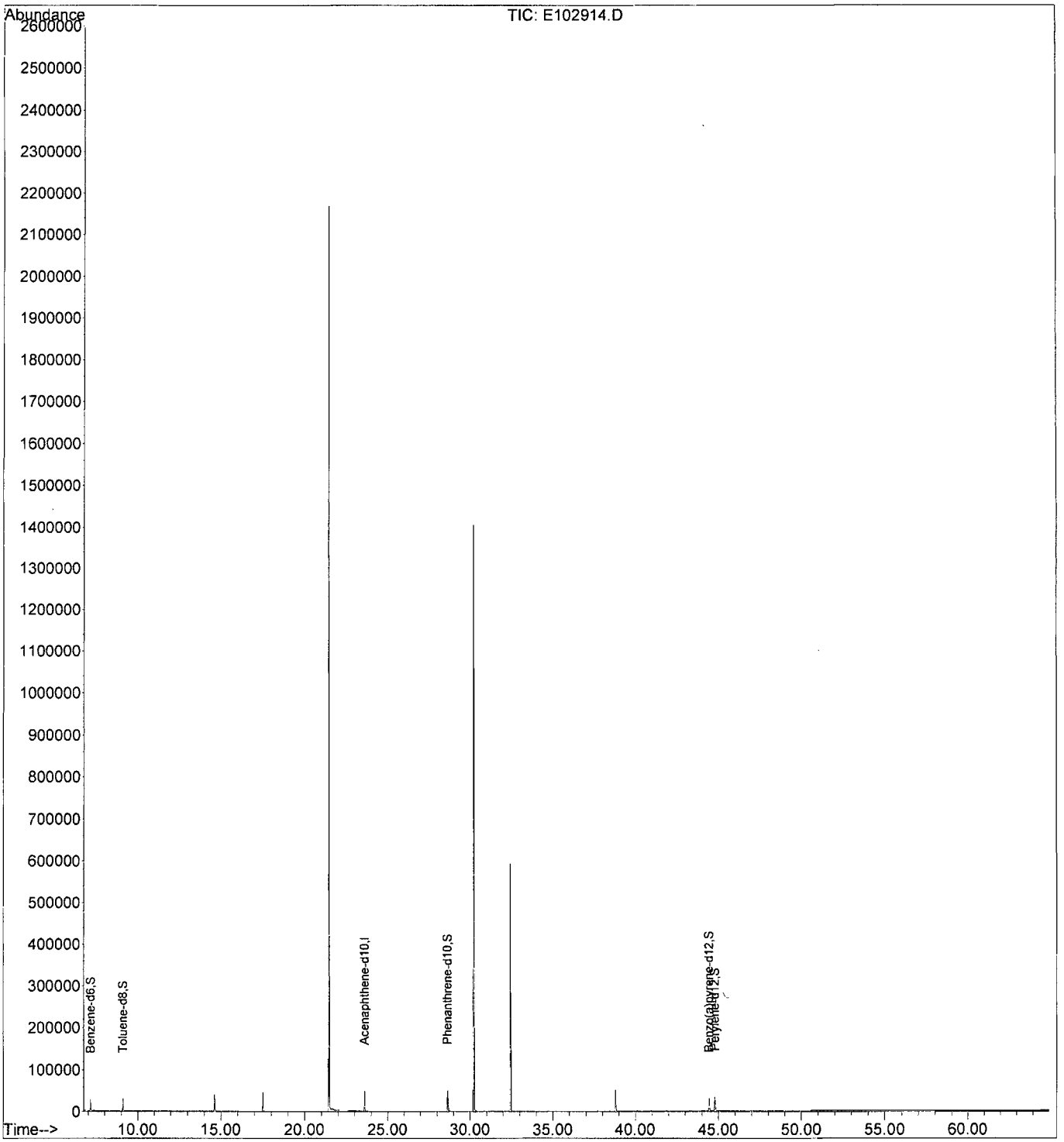
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102914.D
Acq On : 30 Oct 2010 5:36 am
Operator : JAR
Sample : QC101020-ABS
Misc : Aqueous Blank Spike
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 08:39:35 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102915.D
Acq On : 30 Oct 2010 6:52 am
Operator : JAR
Sample : AE101015-01
Misc : BBNPP-CW1-C
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 01 08:02:04 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

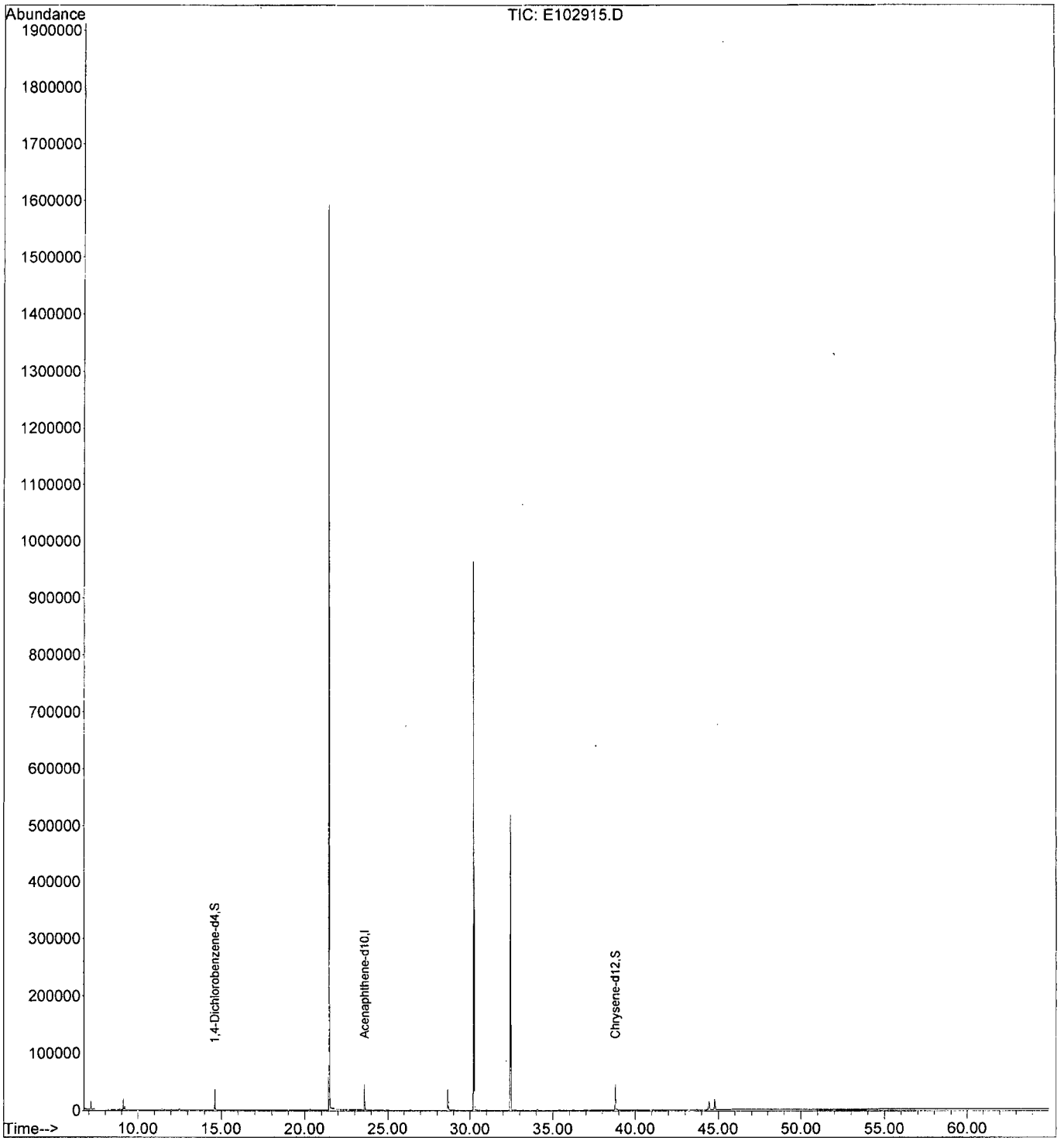
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47256	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25202	0.785	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	70.91%	
3) Chrysene-d12	38.80	240	74416	0.721	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

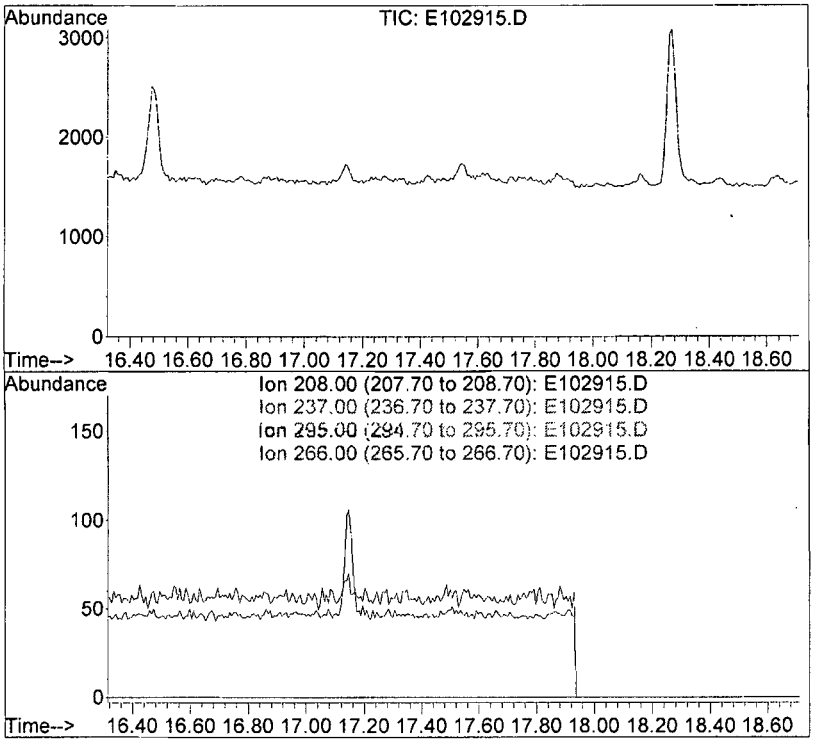
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102915.D
Acq On : 30 Oct 2010 6:52 am
Operator : JAR
Sample : AE101015-01
Misc : BBNPP-CW1-C
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 01 08:02:04 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



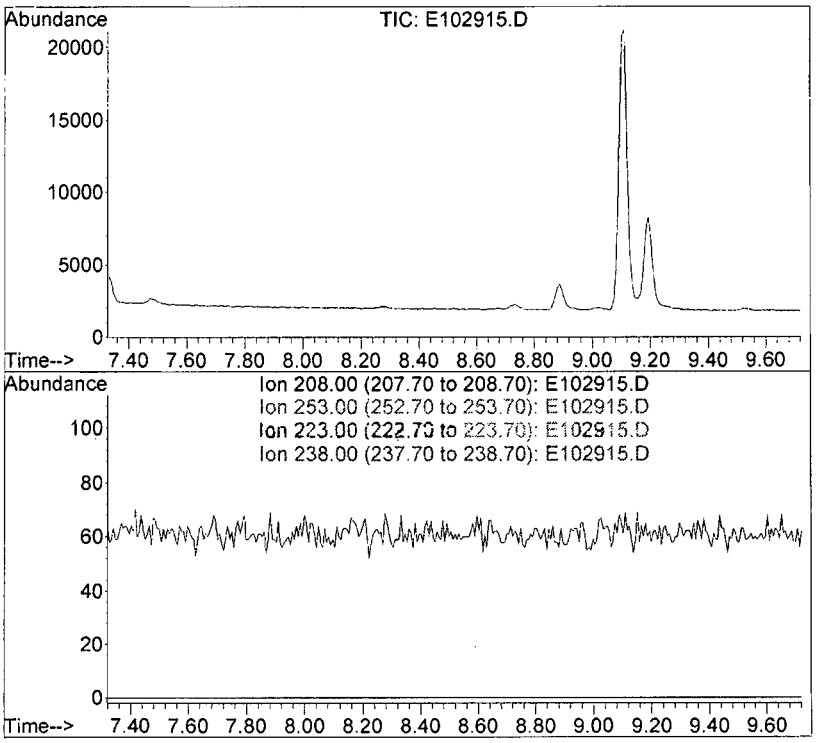


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102915.D
Acq: 30 Oct 2010 6:52 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

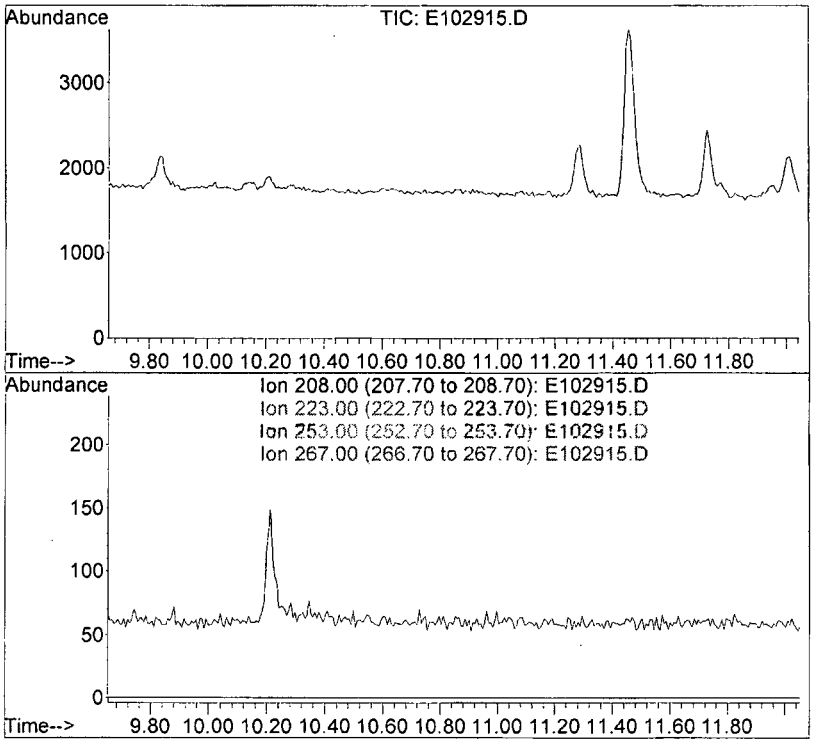


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102915.D
Acq: 30 Oct 2010 6:52 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

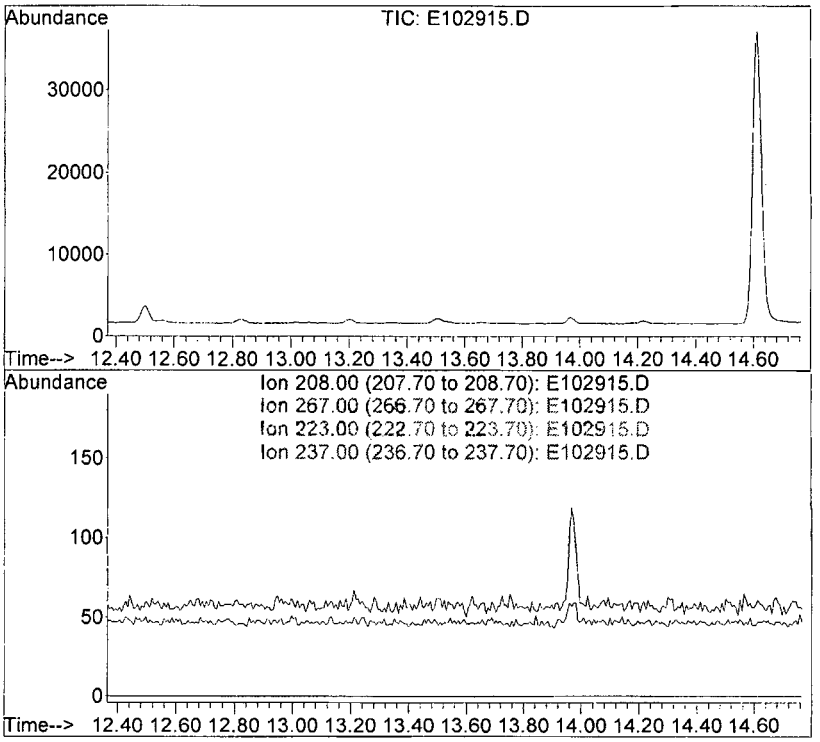


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102915.D
Acq: 30 Oct 2010 6:52 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

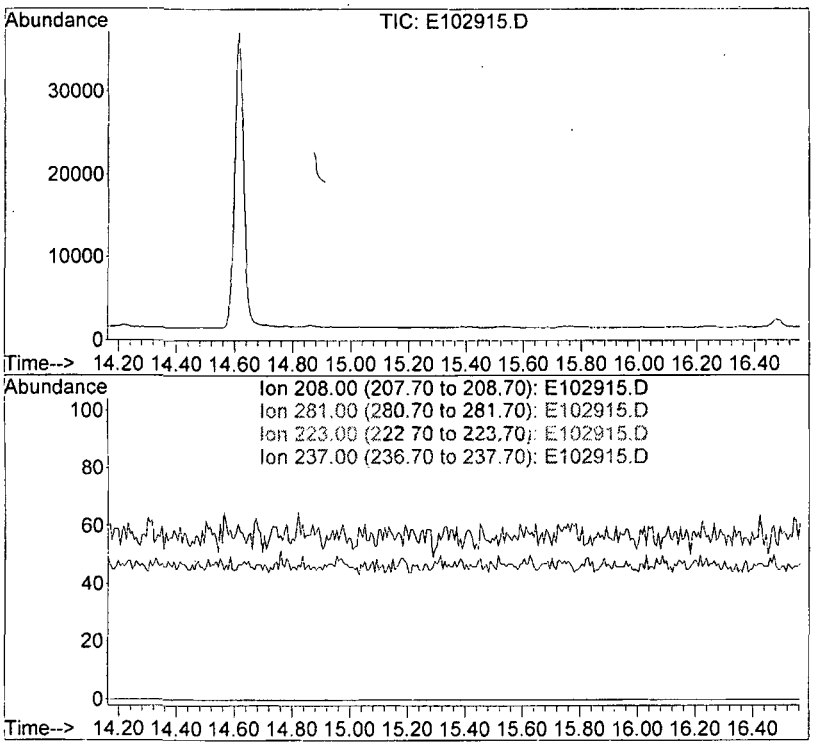


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102915.D
Acq: 30 Oct 2010 6:52 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102915.D
Acq: 30 Oct 2010 6:52 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102915.D
Acq On : 30 Oct 2010 6:52 am
Operator : JAR
Sample : AE101015-01
Misc : BBNPP-CW1-C
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 01 08:39:37 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47256	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.13	84	24366	0.436	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	44.00%	
3) Toluene-d8	9.11	98	39715	0.663	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	66.00%	
4) Phenanthrene-d10	28.65	188	76014	0.770	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	77.00%	
5) Benzo(a)pyrene-d12	44.45	264	37020	0.630	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	63.00%	
6) Perylene-d12	44.79	264	42800	0.582	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	58.00%	

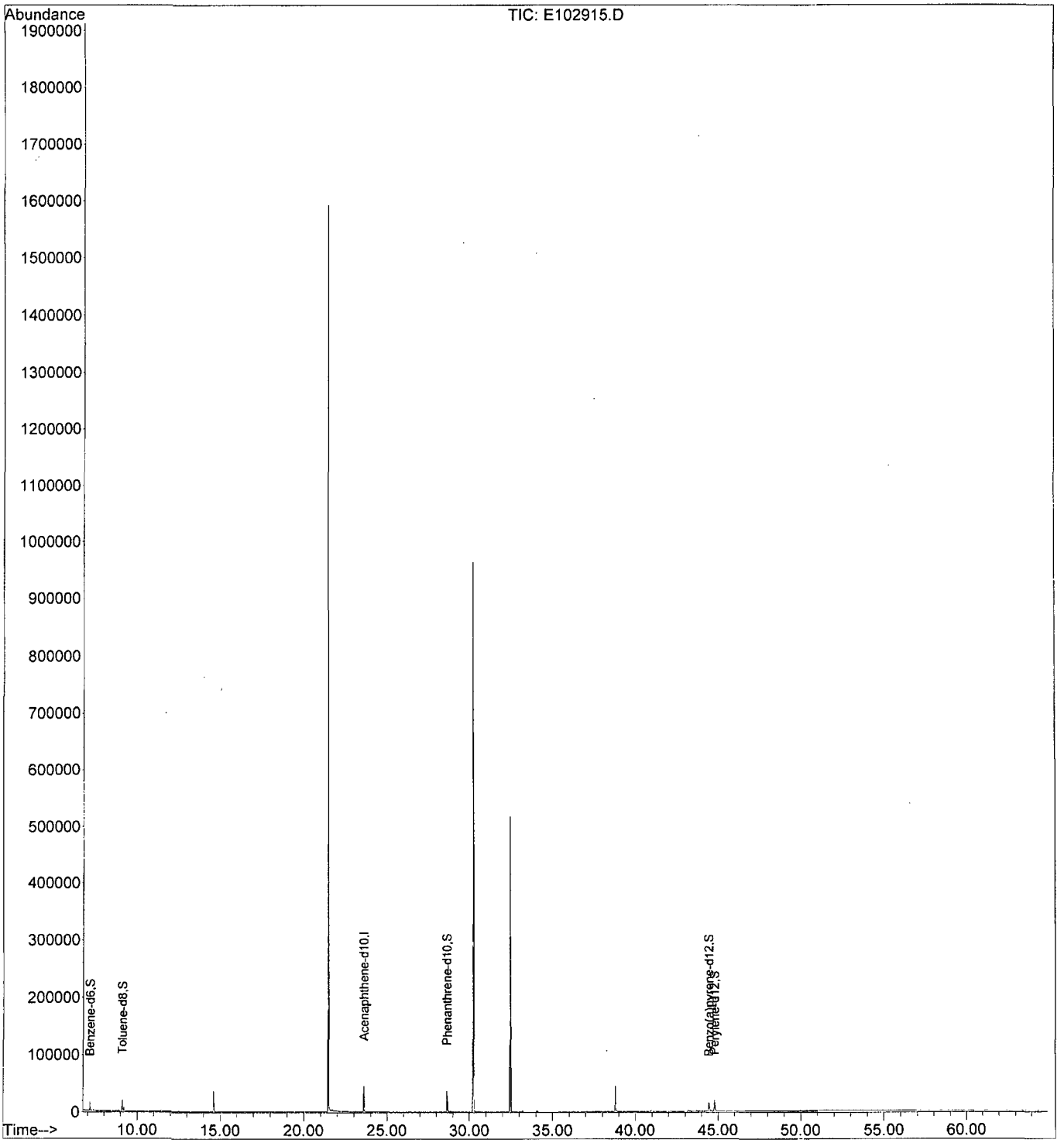
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102915.D
Acq On : 30 Oct 2010 6:52 am
Operator : JAR
Sample : AE101015-01
Misc : BBNPP-CW1-C
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 01 08:39:37 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102916.D
Acq On : 30 Oct 2010 8:07 am
Operator : JAR
Sample : AE101015-02
Misc : BBNPP-CW2-C
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 08:02:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

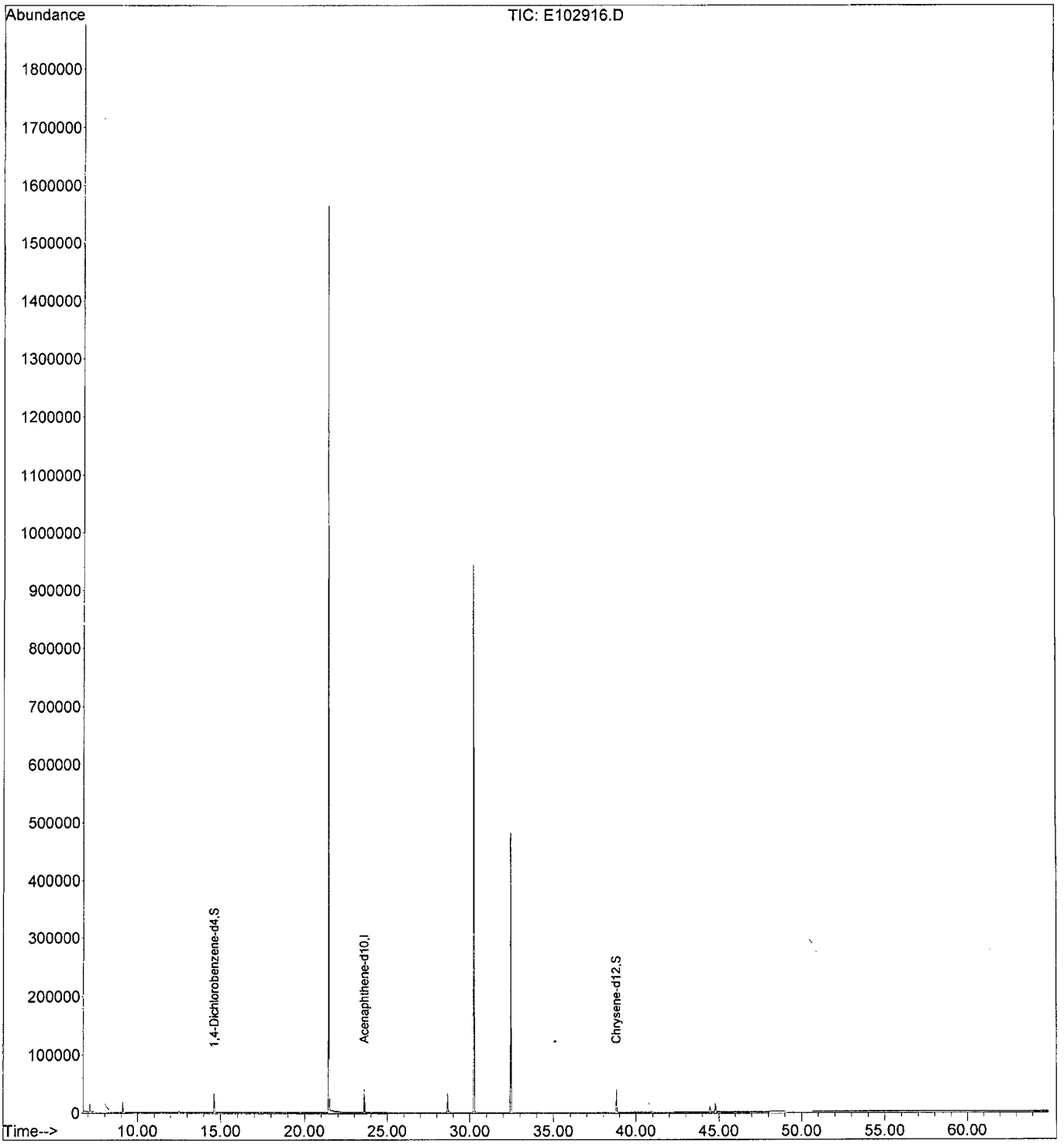
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	42593	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	23400	0.808	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.80	240	66939	0.720	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

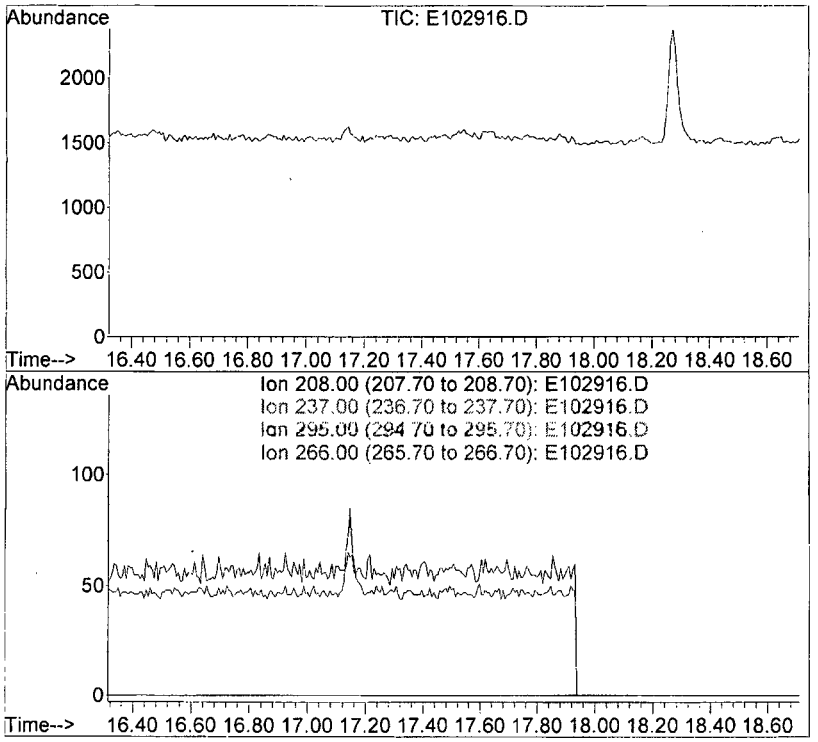
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102916.D
Acq On : 30 Oct 2010 8:07 am
Operator : JAR
Sample : AE101015-02
Misc : BBNPP-CW2-C
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 08:02:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



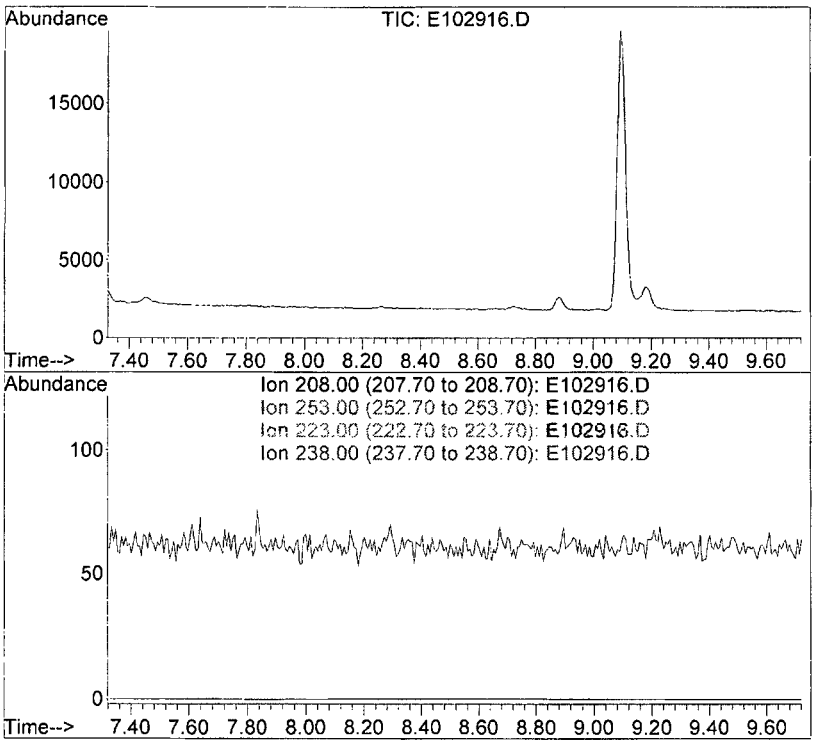


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102916.D
Acq: 30 Oct 2010 8:07 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

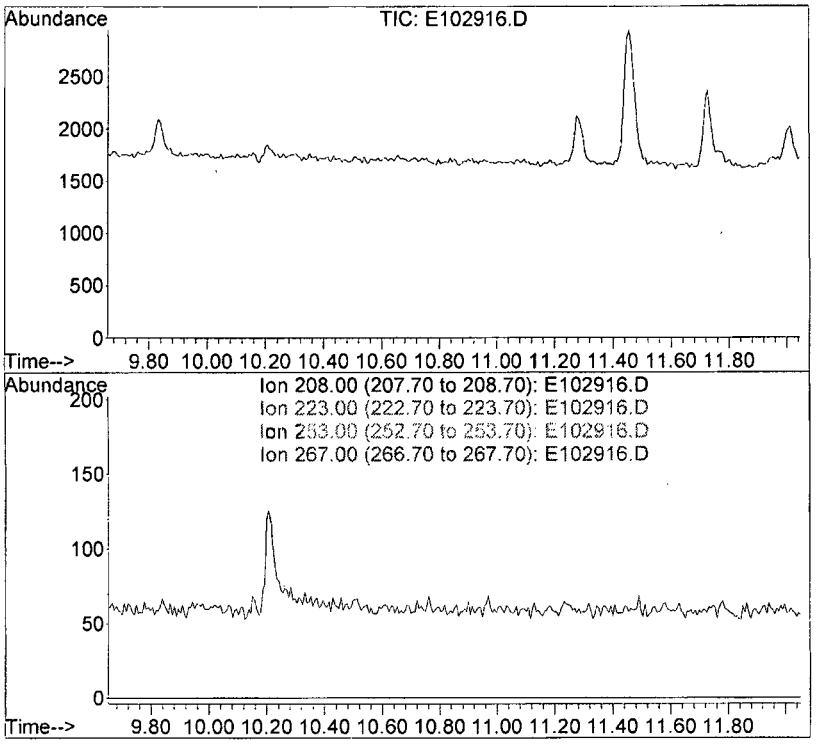


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102916.D
Acq: 30 Oct 2010 8:07 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

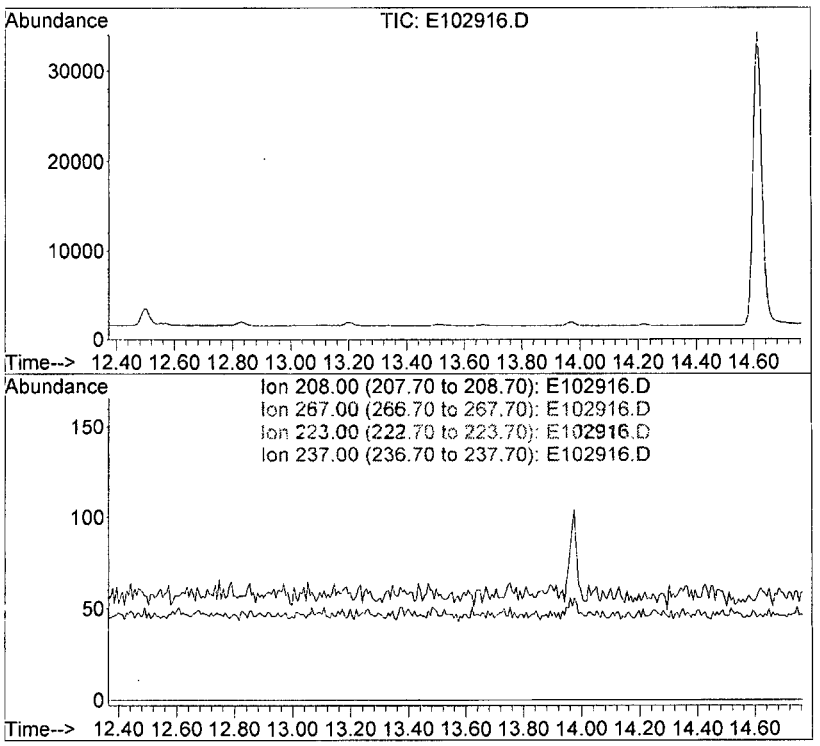


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102916.D
Acq: 30 Oct 2010 8:07 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

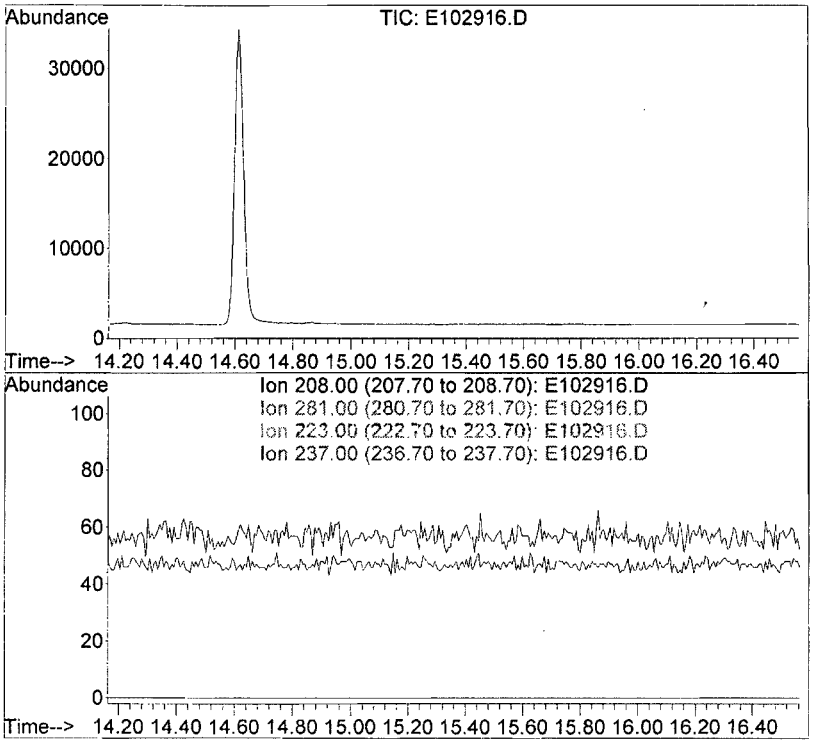


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102916.D
Acq: 30 Oct 2010 8:07 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102916.D
Acq: 30 Oct 2010 8:07 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102916.D
Acq On : 30 Oct 2010 8:07 am
Operator : JAR
Sample : AE101015-02
Misc : BBNPP-CW2-C
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 08:39:39 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	42593	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.11	84	22799	0.452	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	45.00%	
3) Toluene-d8	9.10	98	37629	0.697	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	70.00%	
4) Phenanthrene-d10	28.65	188	70460	0.792	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	79.00%	
5) Benzo(a)pyrene-d12	44.45	264	27363	0.516	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	52.00%	
6) Perylene-d12	44.79	264	33166	0.500	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	50.00%	

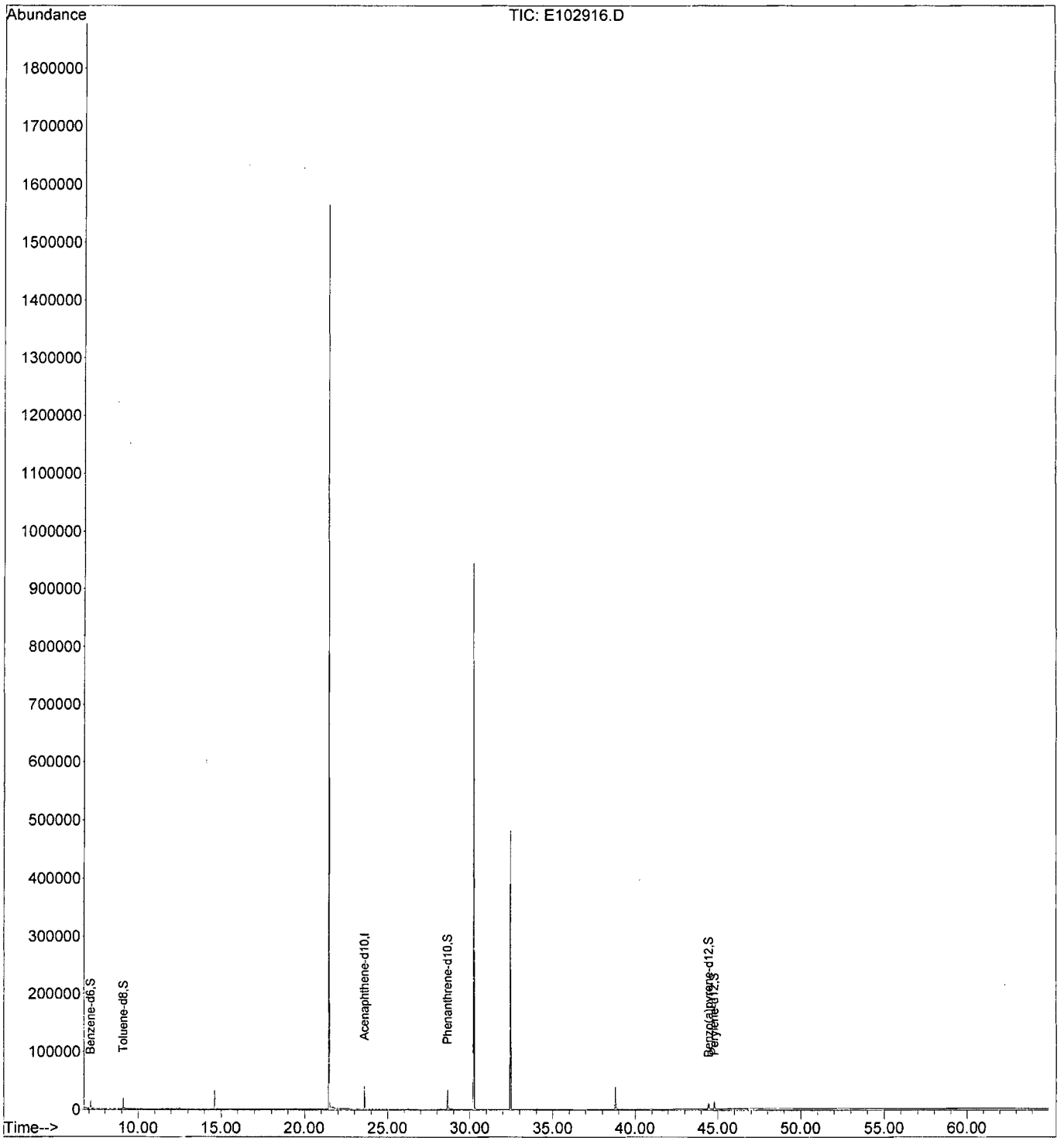
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102916.D
Acq On : 30 Oct 2010 8:07 am
Operator : JAR
Sample : AE101015-02
Misc : BBNPP-CW2-C
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 01 08:39:39 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102917.D
Acq On : 30 Oct 2010 9:22 am
Operator : JAR
Sample : AE101015-03
Misc : BBNPP-CW3-C
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 08:02:08 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

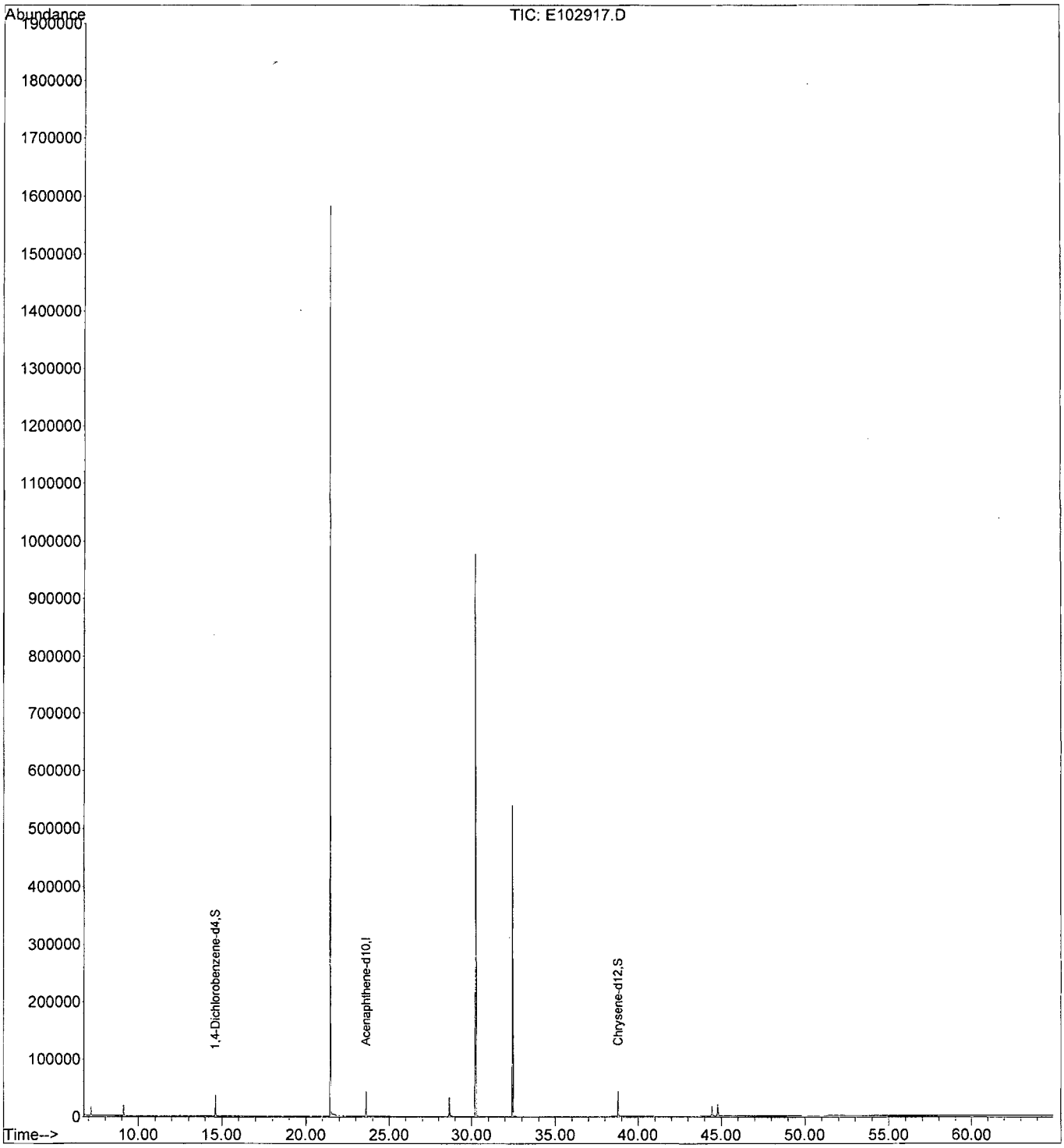
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	46228	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25106	0.799	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.80	240	73348	0.727	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

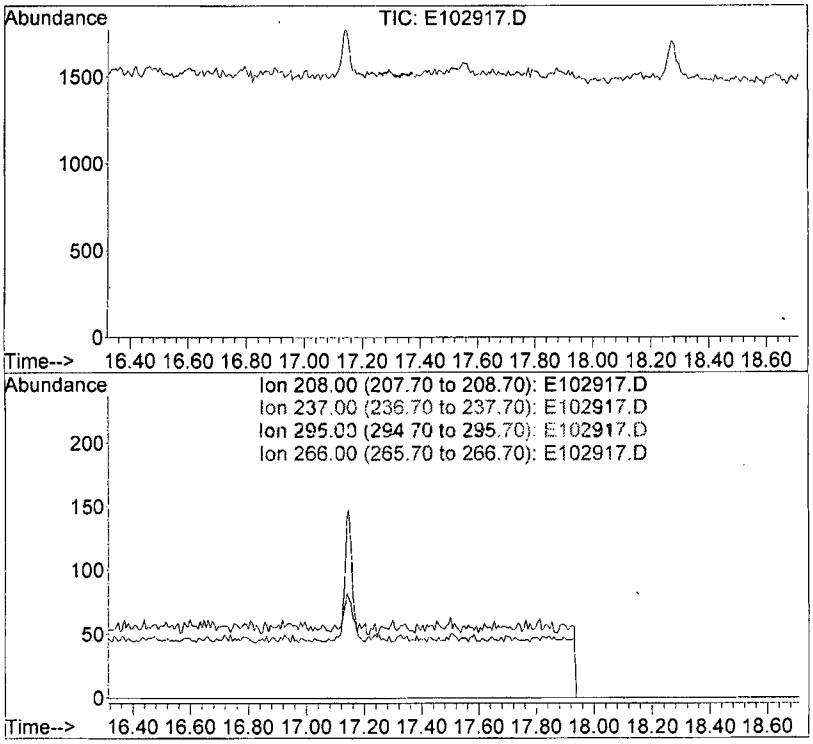
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102917.D
Acq On : 30 Oct 2010 9:22 am
Operator : JAR
Sample : AE101015-03
Misc : BBNPP-CW3-C
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 08:02:08 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



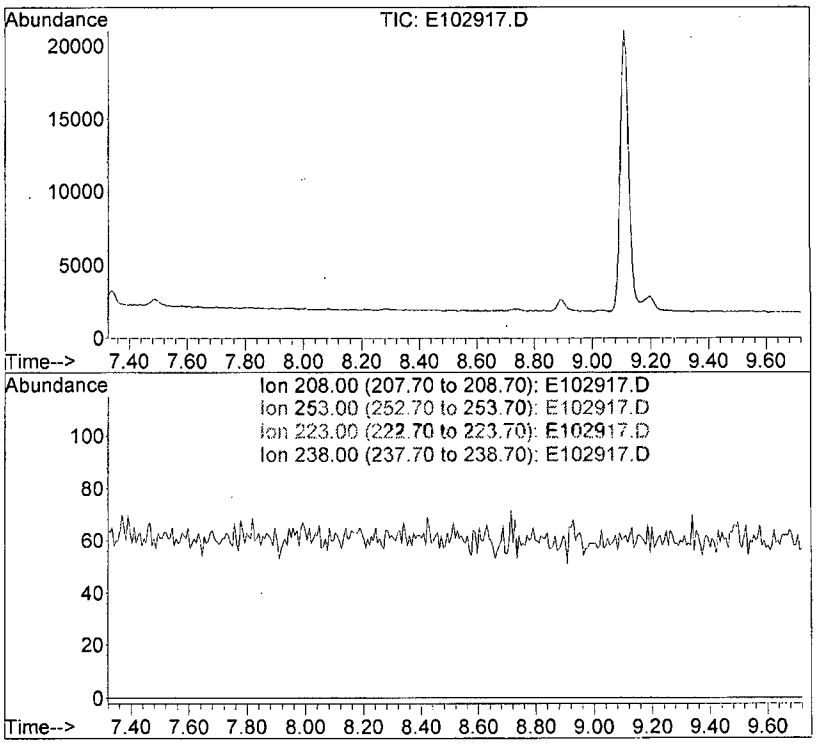


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102917.D
Acq: 30 Oct 2010 9:22 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

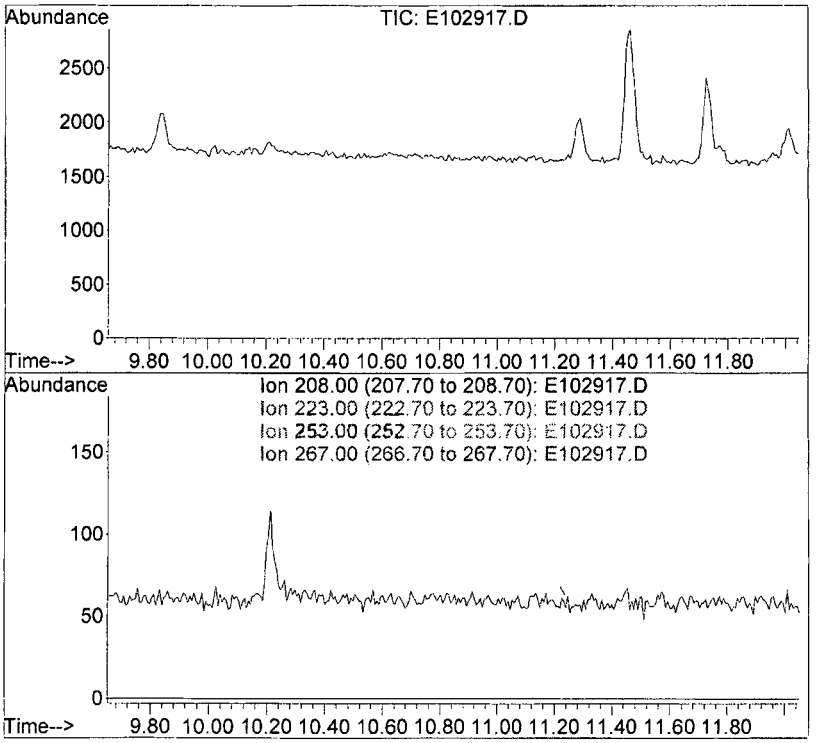


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102917.D
Acq: 30 Oct 2010 9:22 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

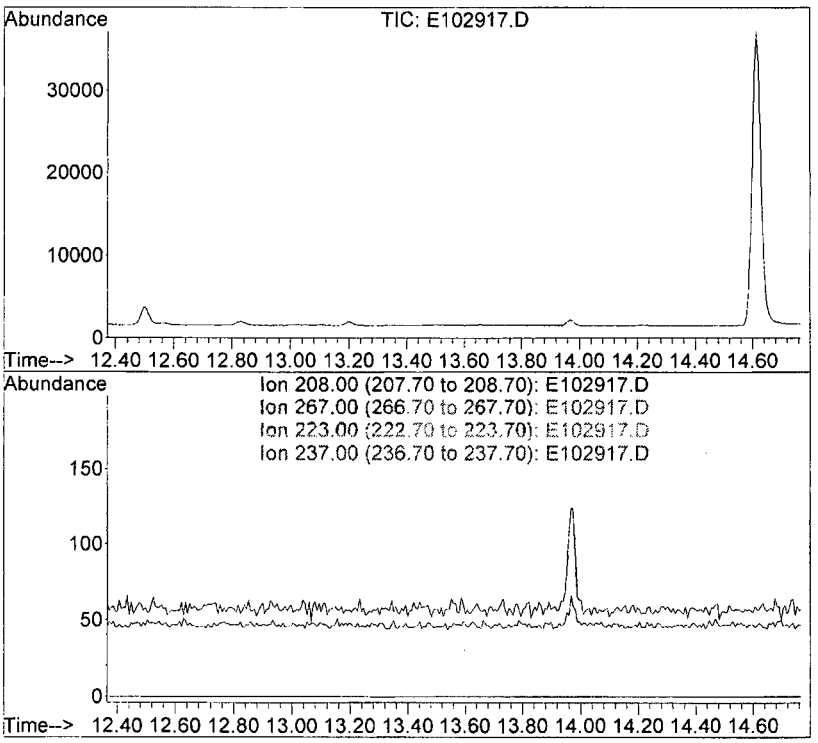


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102917.D
Acq: 30 Oct 2010 9:22 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

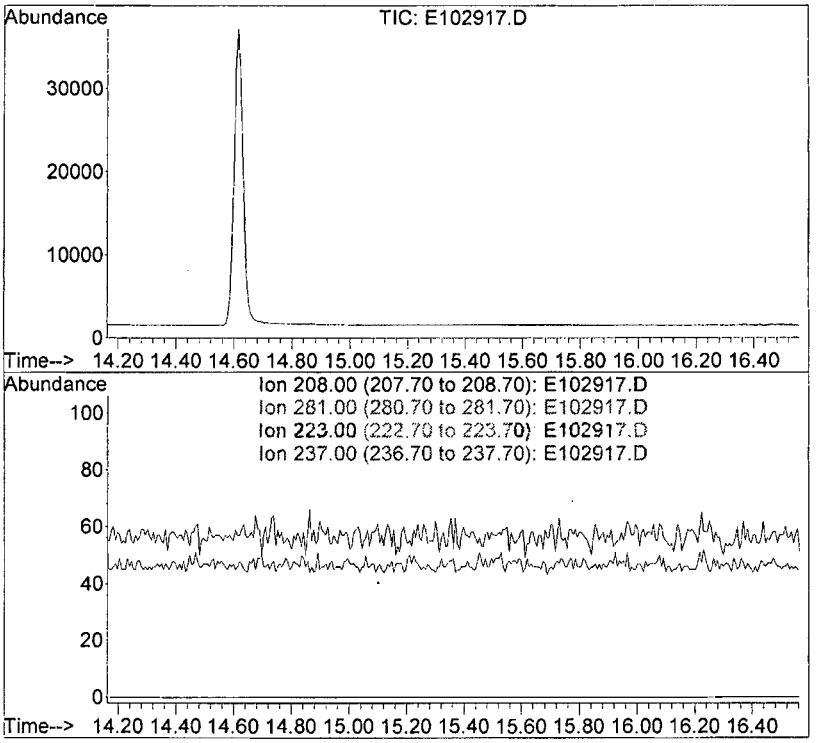


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102917.D
Acq: 30 Oct 2010 9:22 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102917.D
Acq: 30 Oct 2010 9:22 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102917.D
Acq On : 30 Oct 2010 9:22 am
Operator : JAR
Sample : AE101015-03
Misc : BBNPP-CW3-C
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 08:39:41 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	46228	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	25535	0.467	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	47.00%	
3) Toluene-d8	9.11	98	39222	0.670	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	67.00%	
4) Phenanthrene-d10	28.65	188	73320	0.759	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	76.00%	
5) Benzo(a)pyrene-d12	44.45	264	42469	0.738	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	74.00%	
6) Perylene-d12	44.80	264	47646	0.662	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	66.00%	

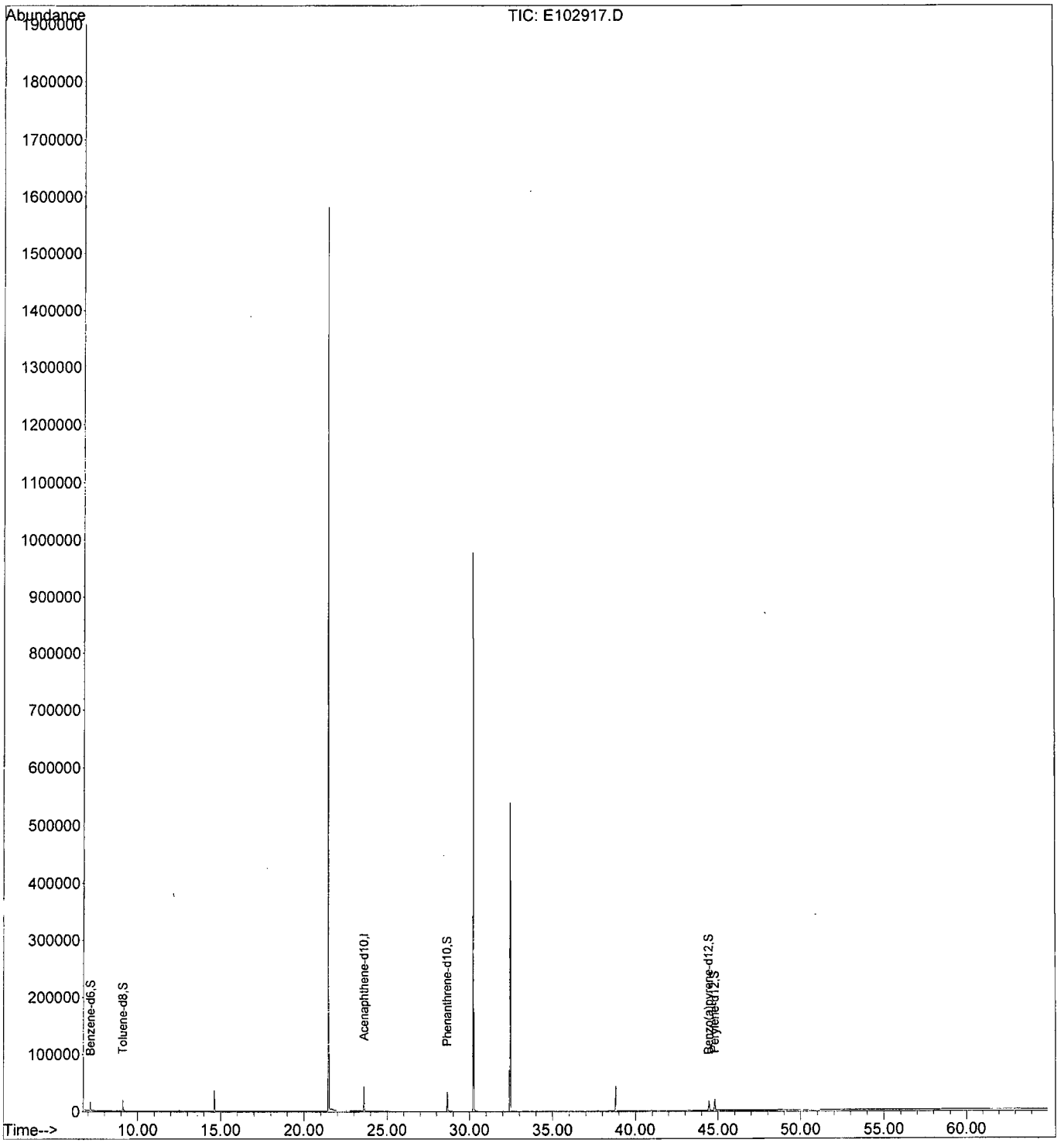
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102917.D
Acq On : 30 Oct 2010 9:22 am
Operator : JAR
Sample : AE101015-03
Misc : BBNPP-CW3-C
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 01 08:39:41 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102918.D
Acq On : 30 Oct 2010 10:38 am
Operator : JAR
Sample : AE101015-04
Misc : BBNPP-CW6-C
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 01 08:02:10 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

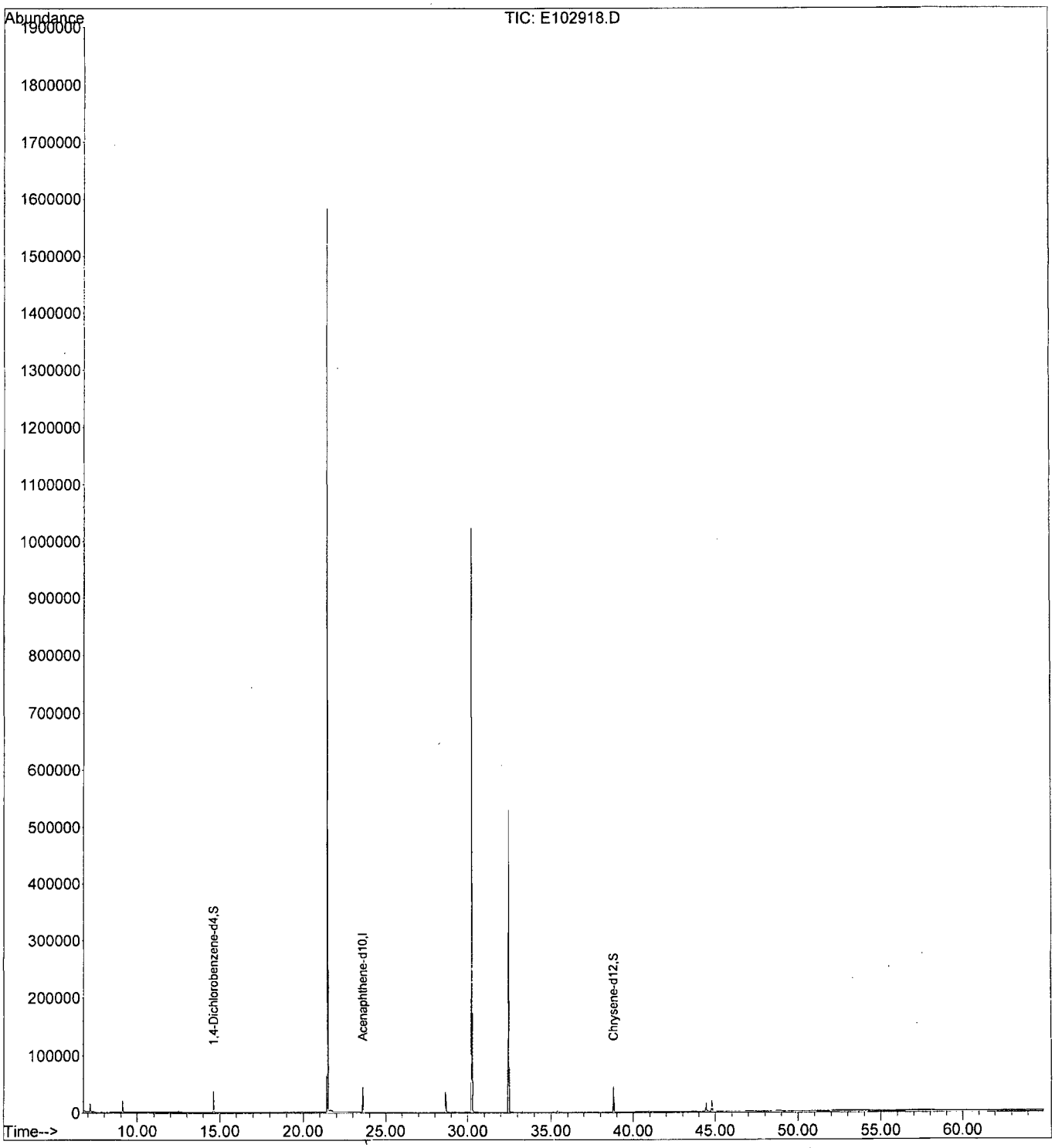
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47768	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25780	0.794	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	75052	0.719	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

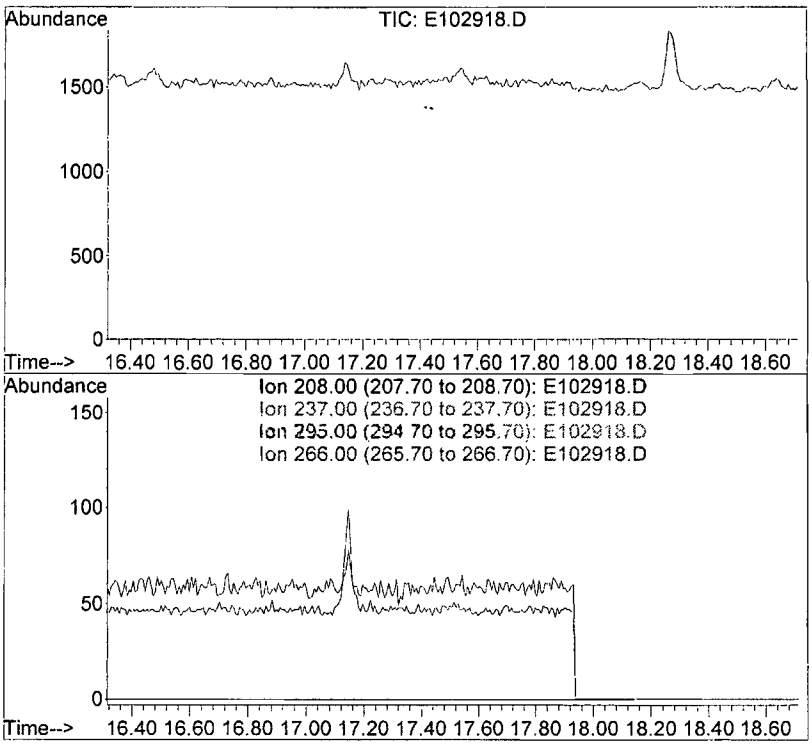
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102918.D
Acq On : 30 Oct 2010 10:38 am
Operator : JAR
Sample : AE101015-04
Misc : BBNPP-CW6-C
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 01 08:02:10 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



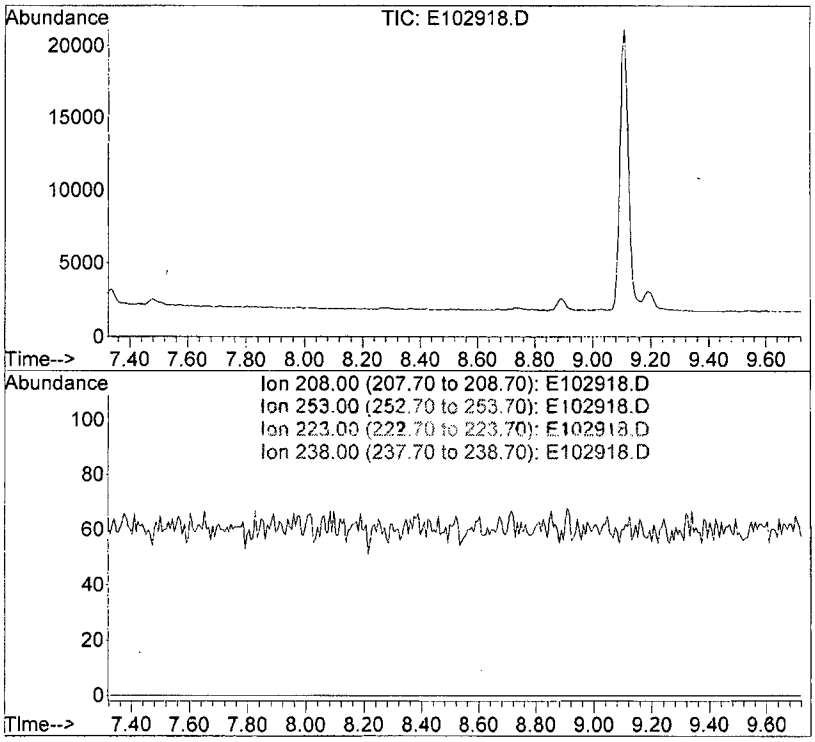


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102918.D
Acq: 30 Oct 2010 10:38 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

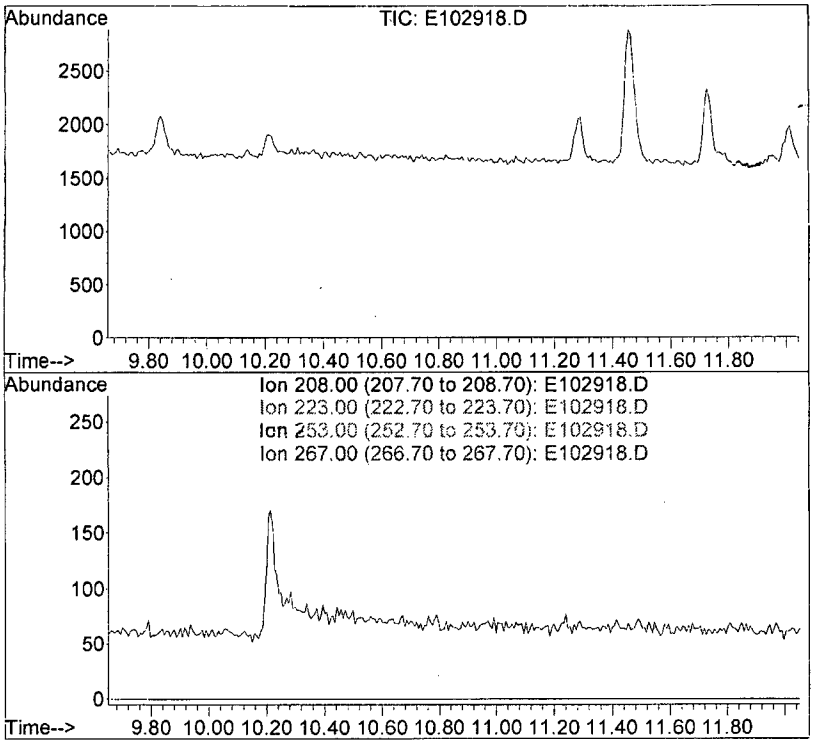


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102918.D
Acq: 30 Oct 2010 10:38 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

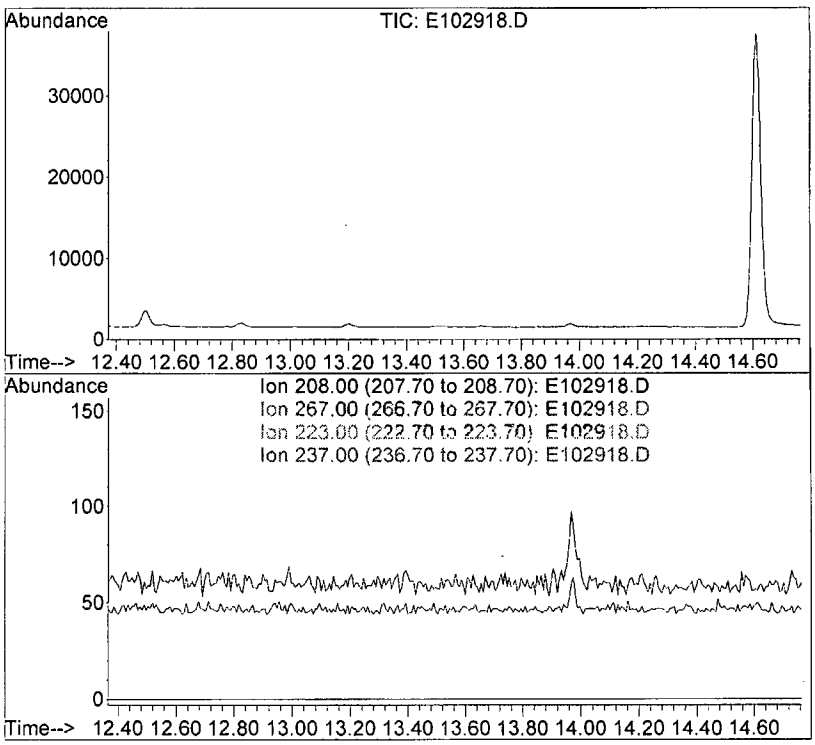


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102918.D
Acq: 30 Oct 2010 10:38 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

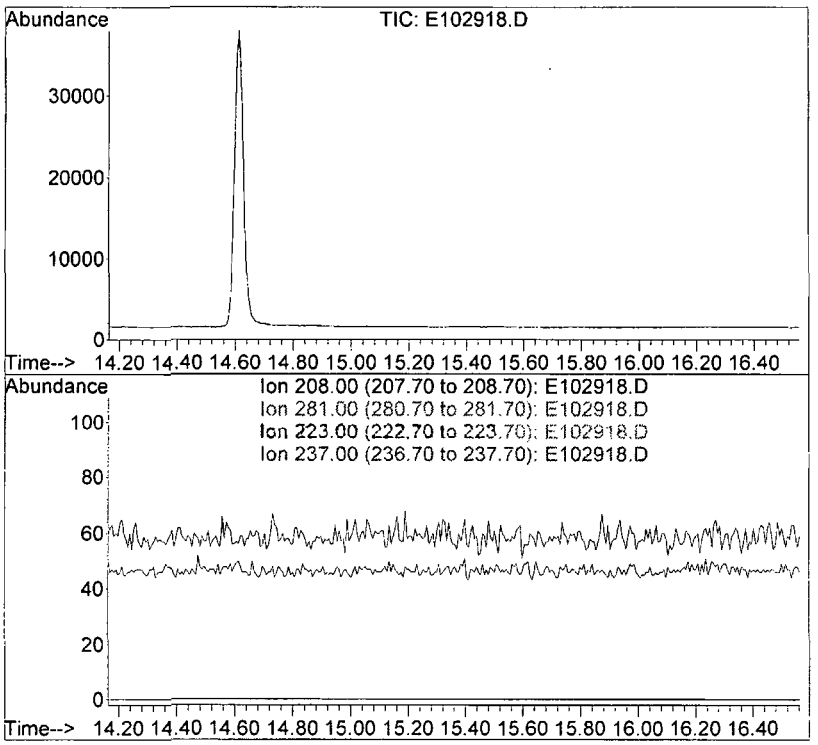


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102918.D
Acq: 30 Oct 2010 10:38 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102918.D
Acq: 30 Oct 2010 10:38 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102918.D
Acq On : 30 Oct 2010 10:38 am
Operator : JAR
Sample : AE101015-04
Misc : BBNPP-CW6-C
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 01 08:39:43 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47768	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.13	84	24417	0.432	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	43.00%	
3) Toluene-d8	9.11	98	39070	0.646	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	65.00%	
4) Phenanthrene-d10	28.65	188	74519	0.747	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
5) Benzo(a)pyrene-d12	44.45	264	36297	0.611	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	61.00%	
6) Perylene-d12	44.80	264	42547	0.572	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	57.00%	

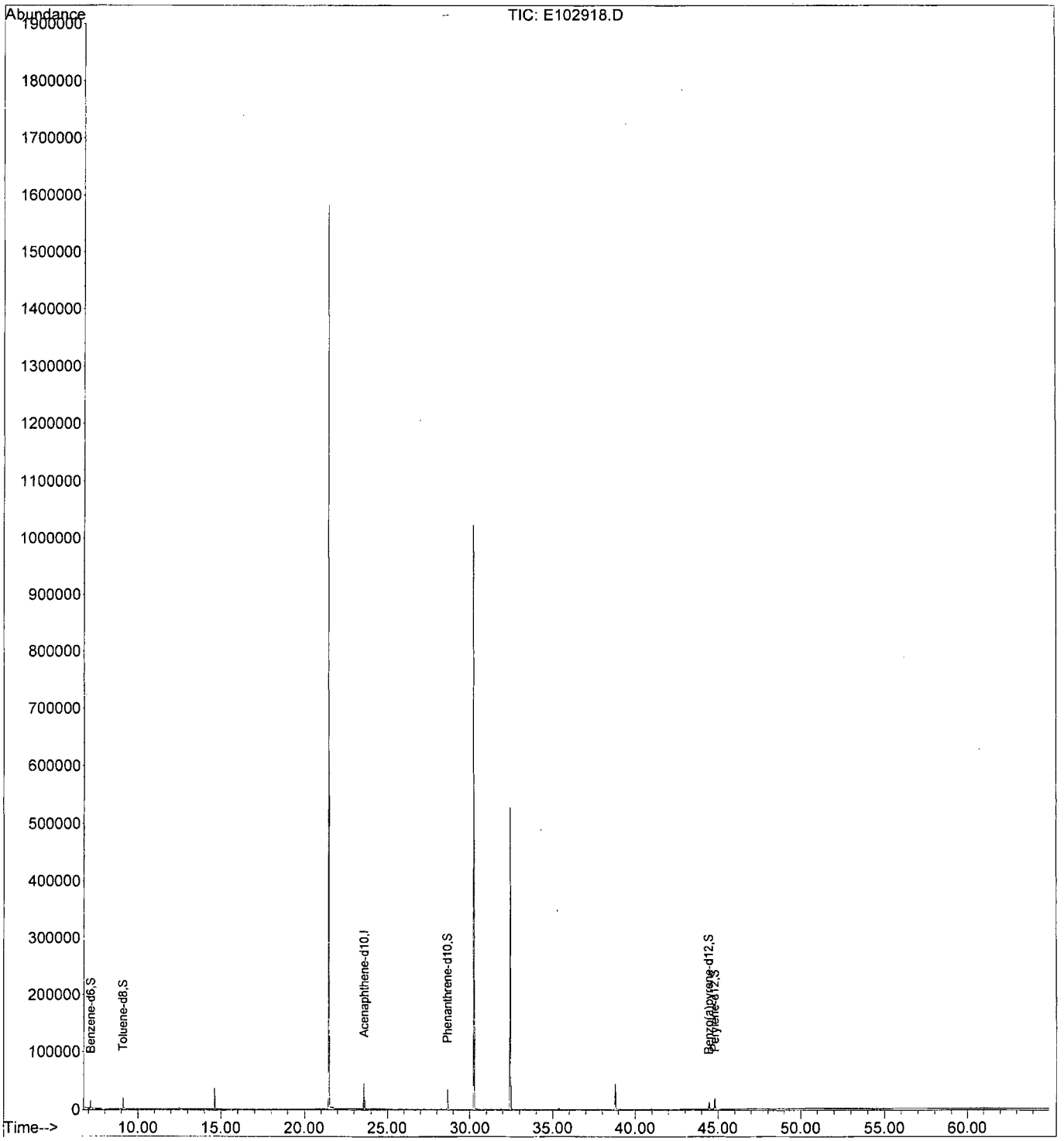
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102918.D
Acq On : 30 Oct 2010 10:38 am
Operator : JAR
Sample : AE101015-04
Misc : BBNPP-CW6-C
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 01 08:39:43 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102919.D
Acq On : 30 Oct 2010 11:53 am
Operator : JAR
Sample : AE101015-05
Misc : BBNPP-CW9-C
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 08:02:12 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

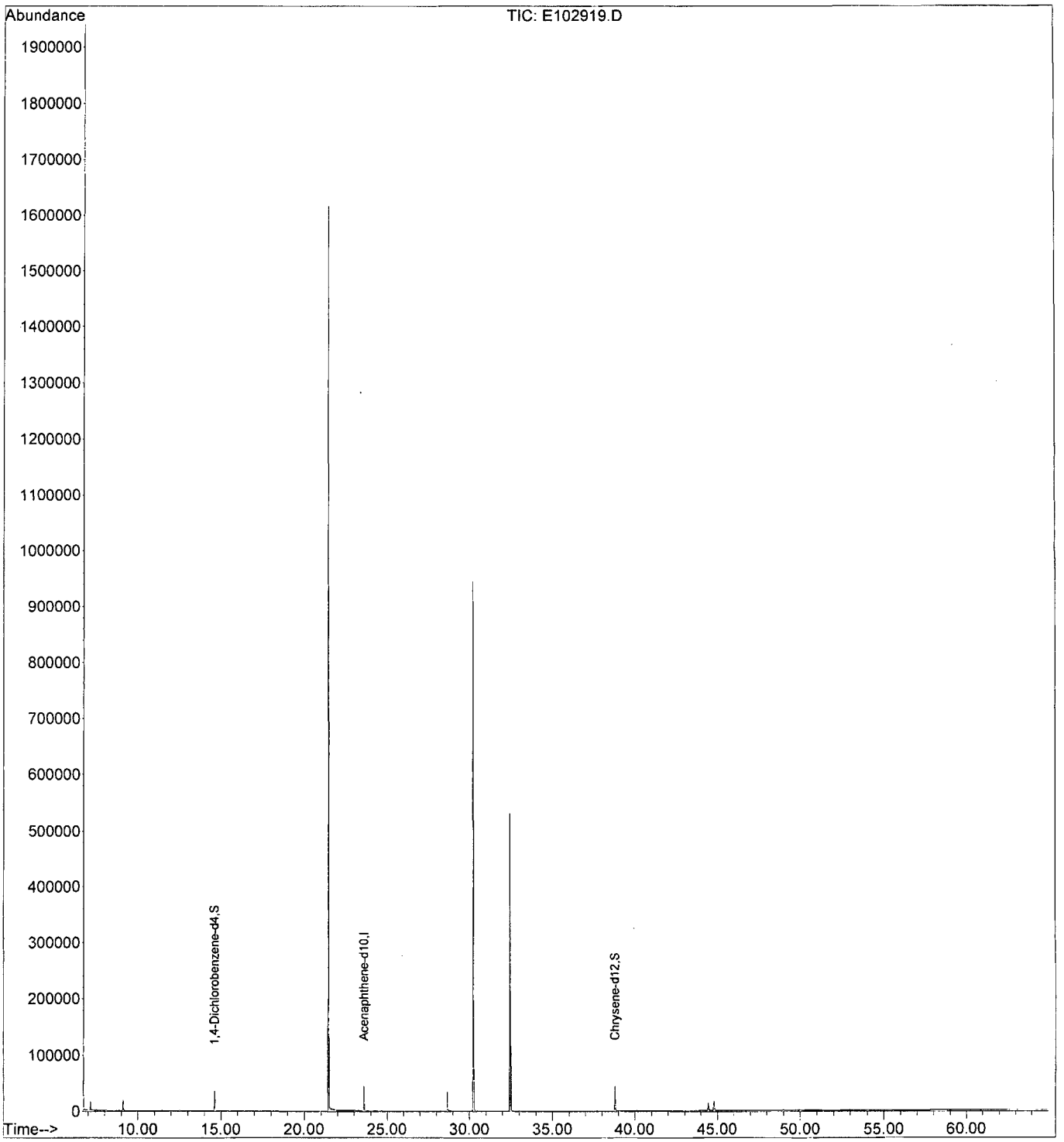
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	46211	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25048	0.797	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.80	240	72738	0.721	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

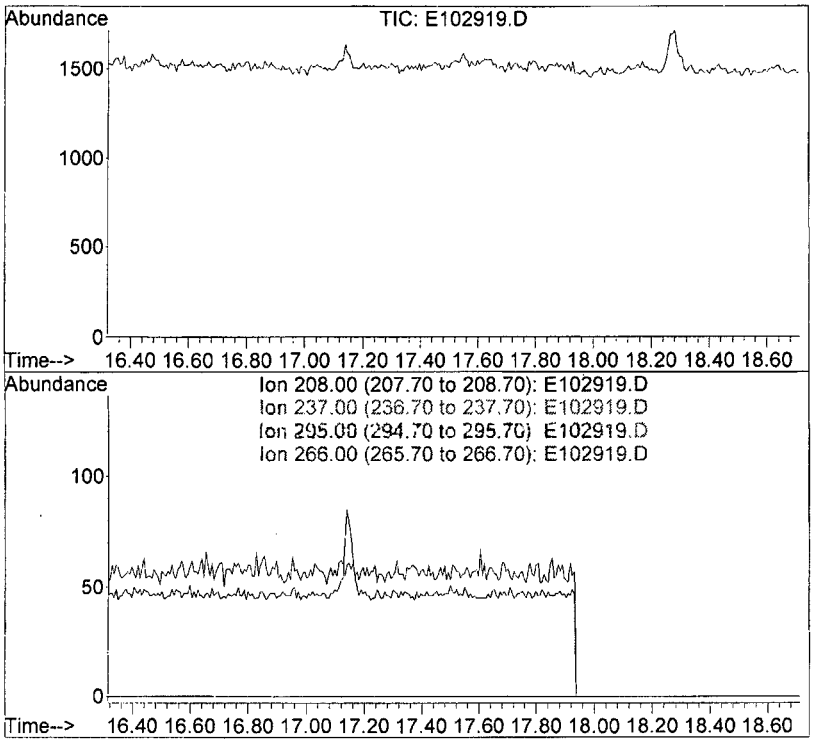
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102919.D
Acq On : 30 Oct 2010 11:53 am
Operator : JAR
Sample : AE101015-05
Misc : BBNPP-CW9-C
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 08:02:12 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



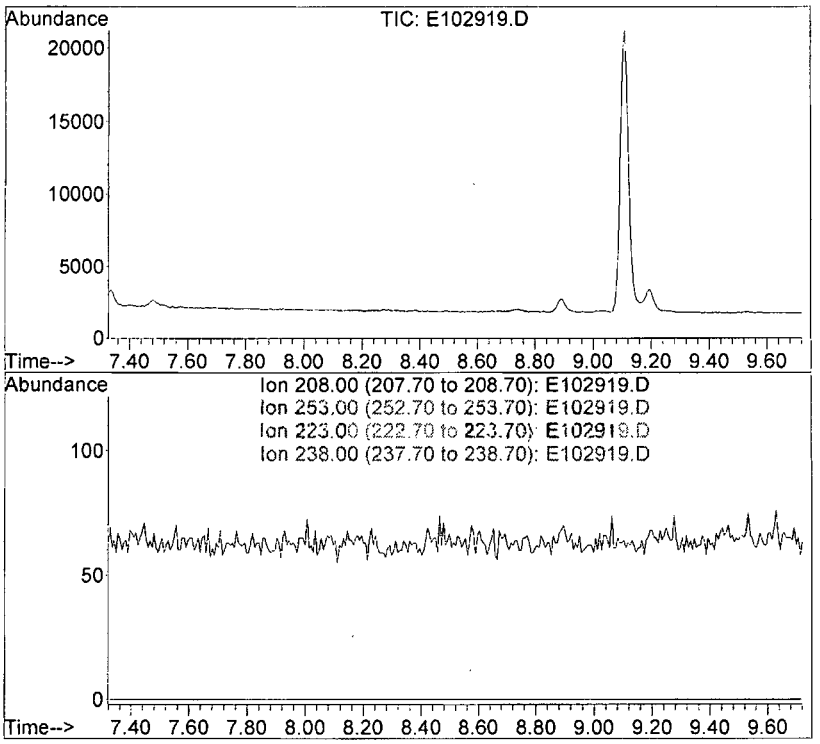


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102919.D
Acq: 30 Oct 2010 11:53 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

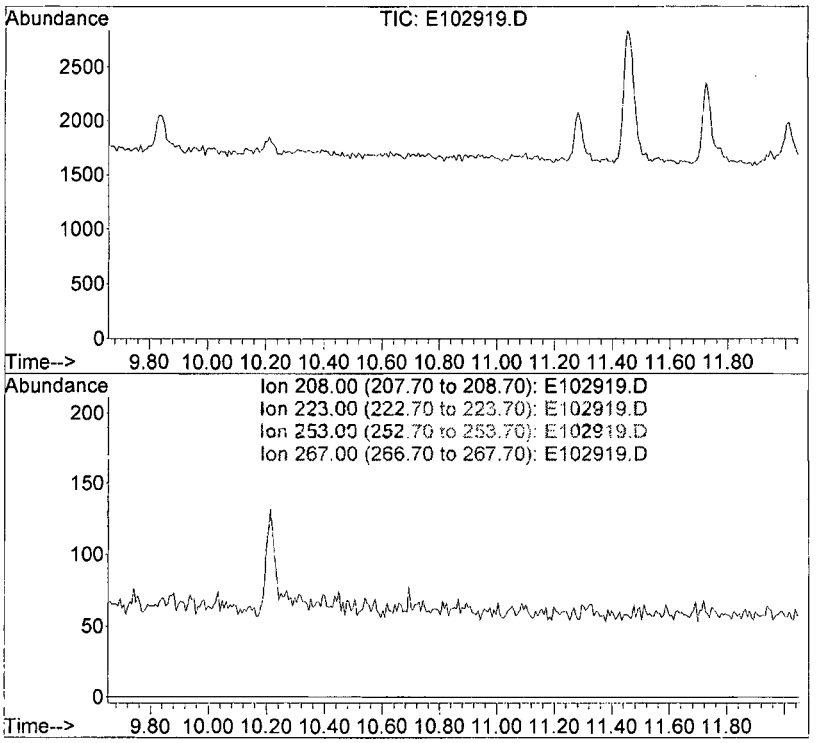


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102919.D
Acq: 30 Oct 2010 11:53 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

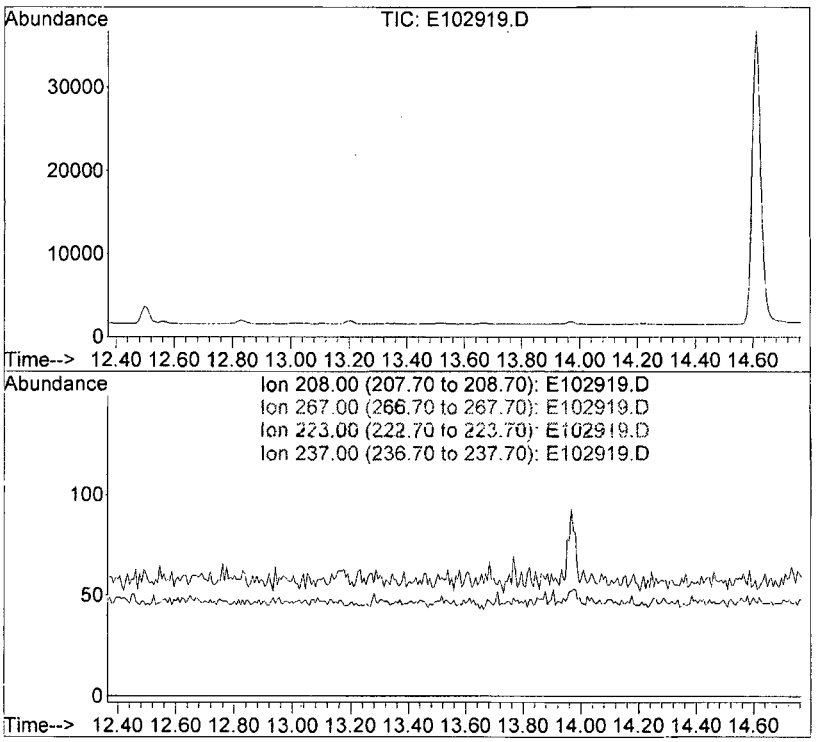


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102919.D
Acq: 30 Oct 2010 11:53 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

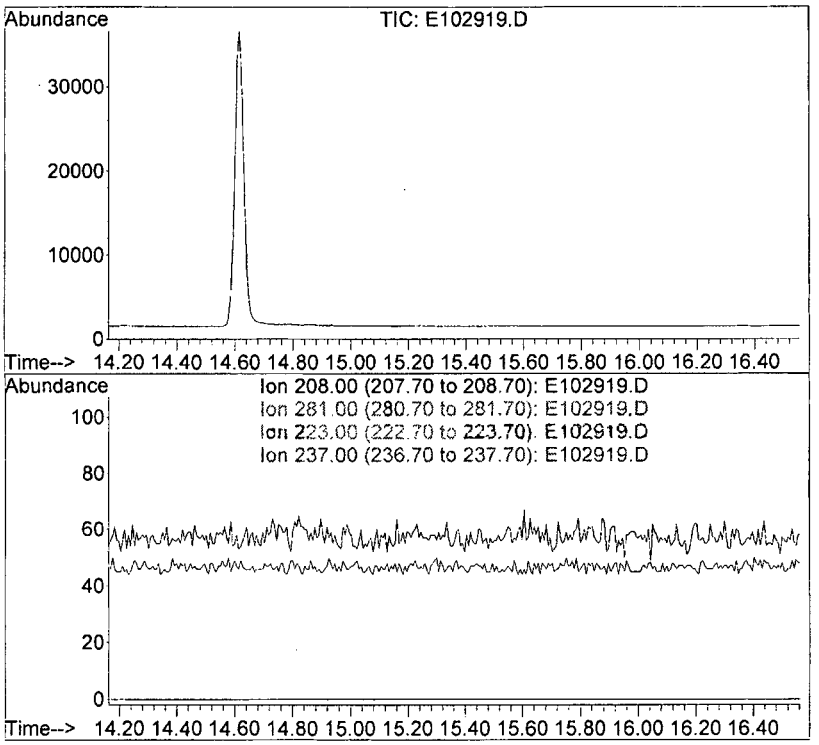


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102919.D
Acq: 30 Oct 2010 11:53 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102919.D
Acq: 30 Oct 2010 11:53 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102919.D
Acq On : 30 Oct 2010 11:53 am
Operator : JAR
Sample : AE101015-05
Misc : BBNPP-CW9-C
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 08:39:45 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	46276	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.13	84	24725	0.451	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	45.00%	
3) Toluene-d8	9.11	98	39569	0.675	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	67.00%	
4) Phenanthrene-d10	28.65	188	72037	0.745	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
5) Benzo(a)pyrene-d12	44.45	264	34113	0.593	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	59.00%	
6) Perylene-d12	44.79	264	39638	0.550	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	55.00%	

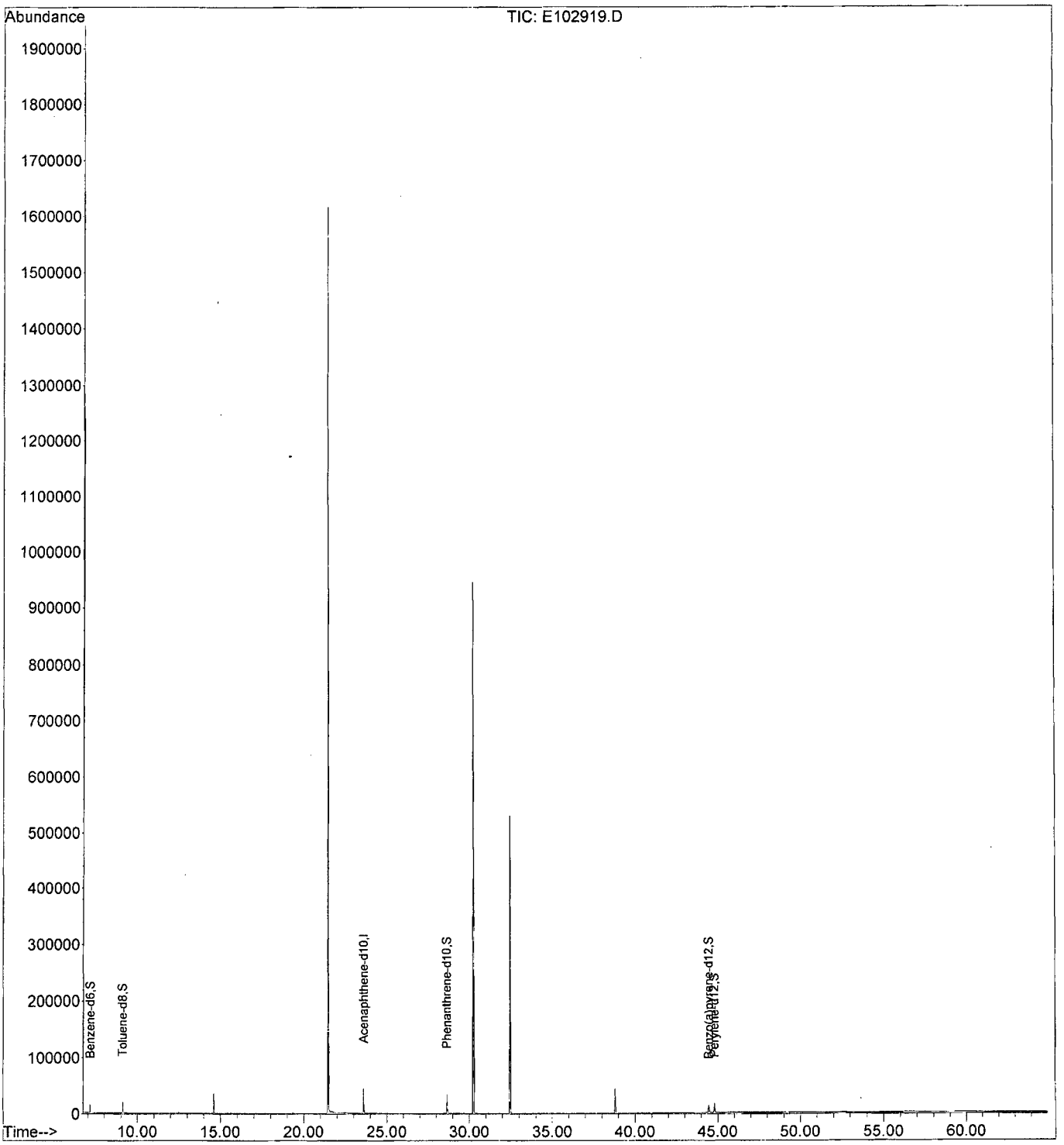
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102919.D
Acq On : 30 Oct 2010 11:53 am
Operator : JAR
Sample : AE101015-05
Misc : BBNPP-CW9-C
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 08:39:45 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102923.D
Acq On : 30 Oct 2010 4:57 pm
Operator : JAR
Sample : AE101015-06
Misc : BBNPP-CW12-C
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 08:02:17 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

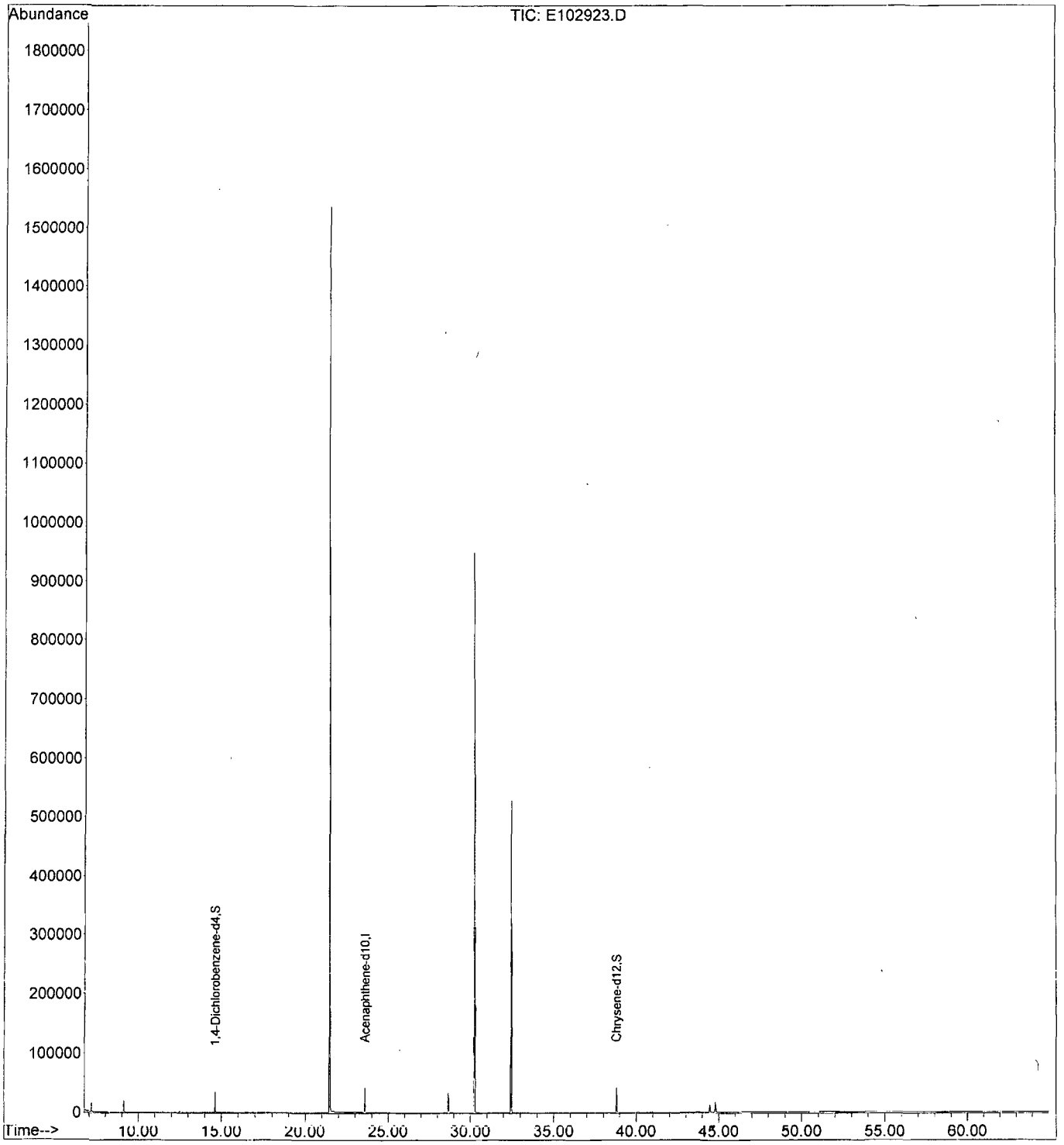
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	44414	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	24636	0.816	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	74.55%	
3) Chrysene-d12	38.80	240	72355	0.746	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	68.18%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

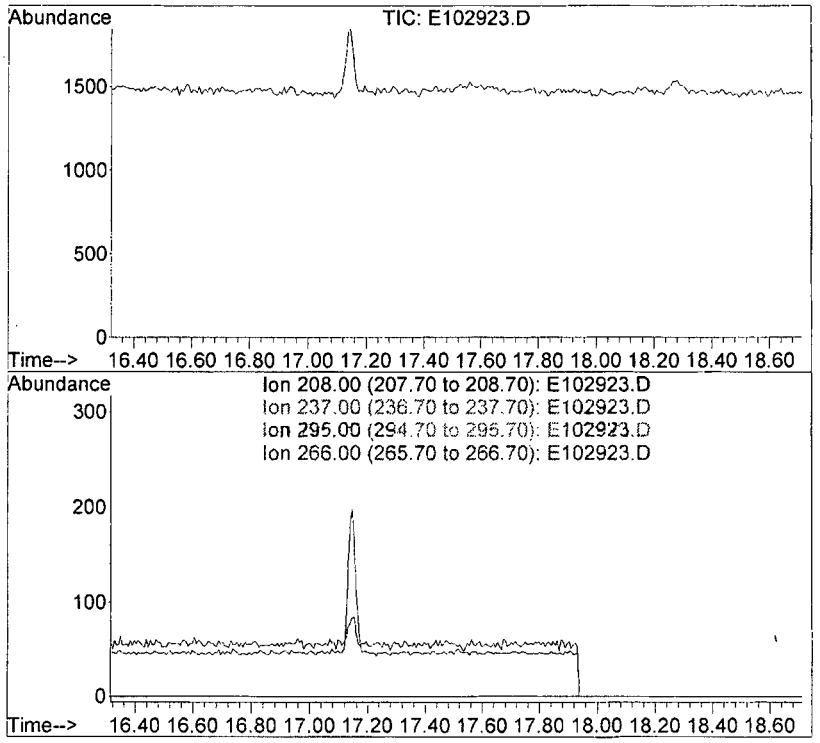
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102923.D
Acq On : 30 Oct 2010 4:57 pm
Operator : JAR
Sample : AE101015-06
Misc : BBNPP-CW12-C
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 08:02:17 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



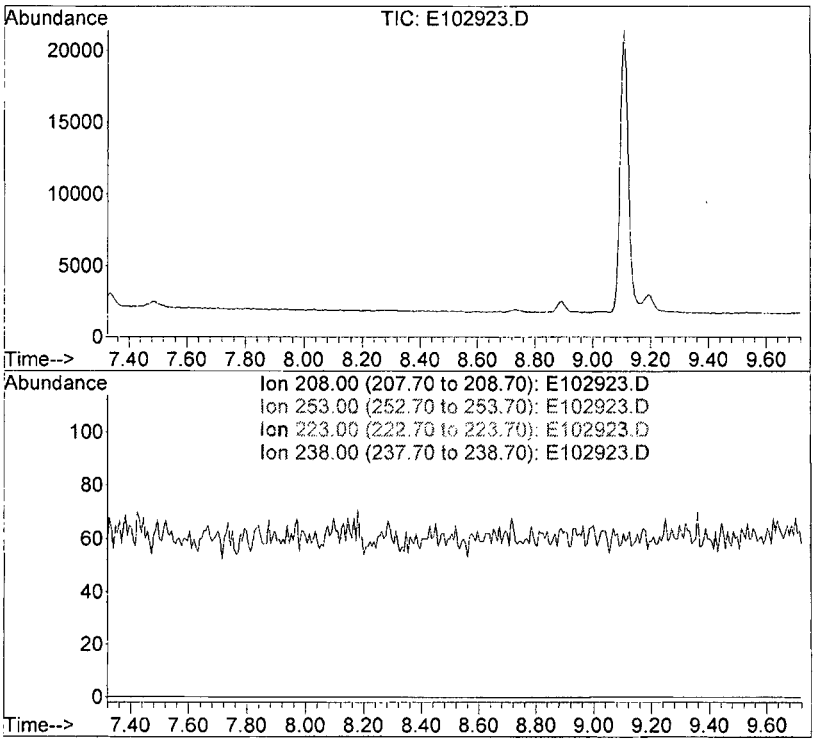


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102923.D
Acq: 30 Oct 2010 4:57 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

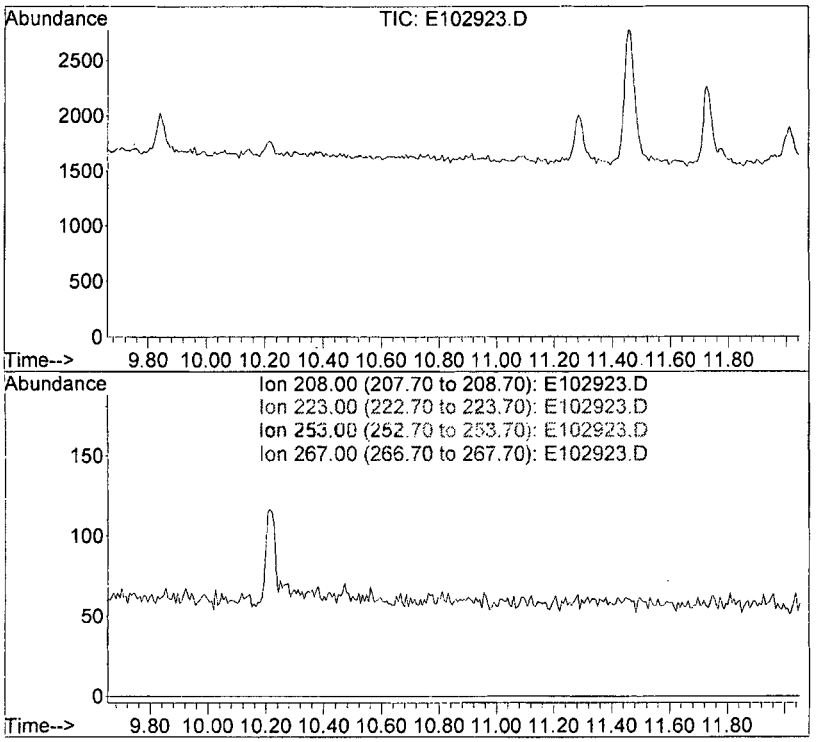


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102923.D
Acq: 30 Oct 2010 4:57 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

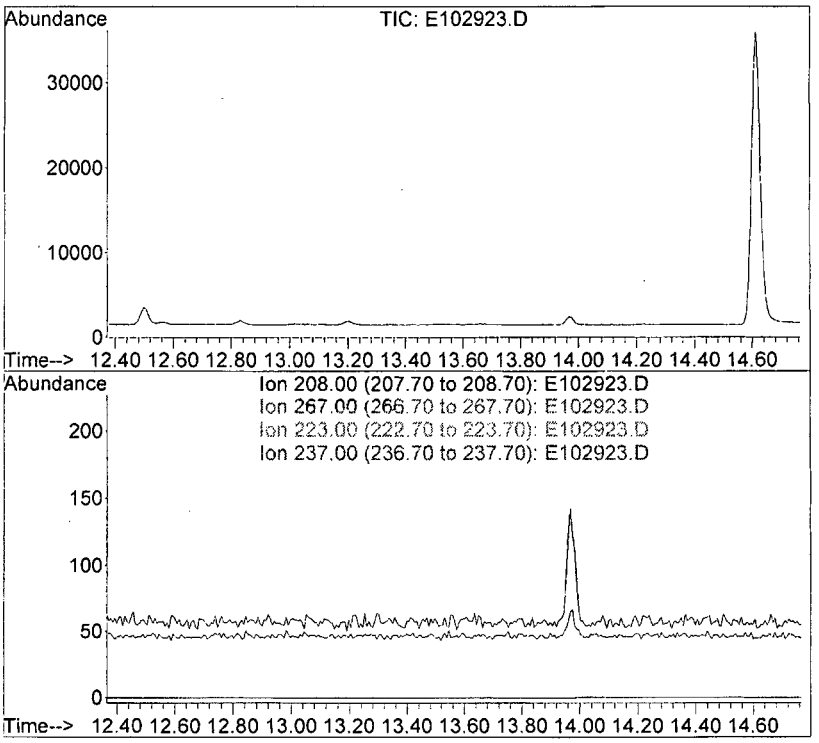


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102923.D
Acq: 30 Oct 2010 4:57 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

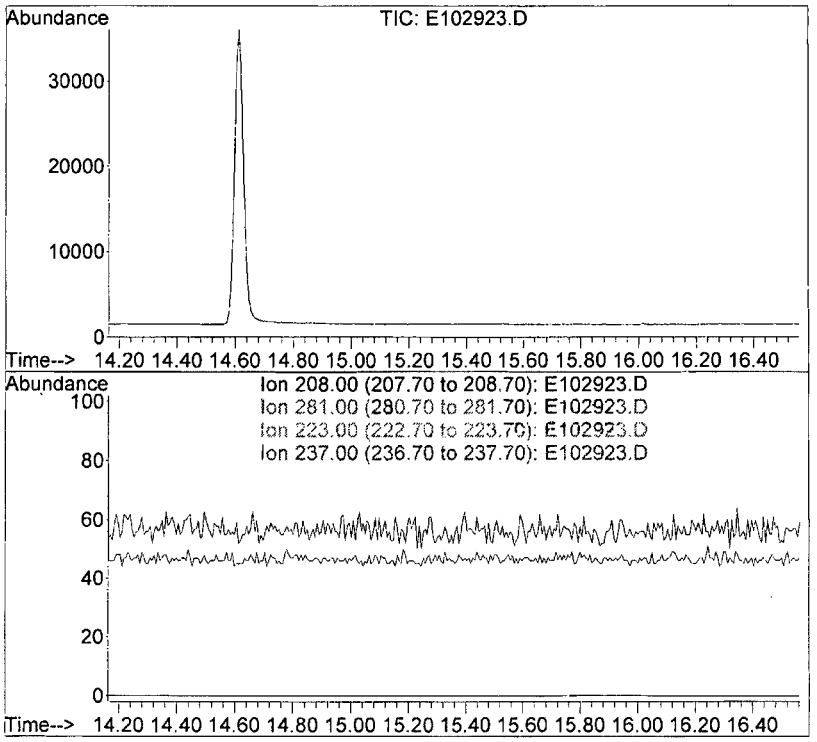


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102923.D
Acq: 30 Oct 2010 4:57 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102923.D
Acq: 30 Oct 2010 4:57 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102923.D
Acq On : 30 Oct 2010 4:57 pm
Operator : JAR
Sample : AE101015-06
Misc : BBNPP-CW12-C
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 08:39:50 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	44414	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	26178	0.498	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
3) Toluene-d8	9.11	98	39791	0.707	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	71.00%	
4) Phenanthrene-d10	28.65	188	70530	0.760	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	76.00%	
5) Benzo(a)pyrene-d12	44.45	264	34404	0.623	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	62.00%	
6) Perylene-d12	44.80	264	40120	0.580	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	58.00%	

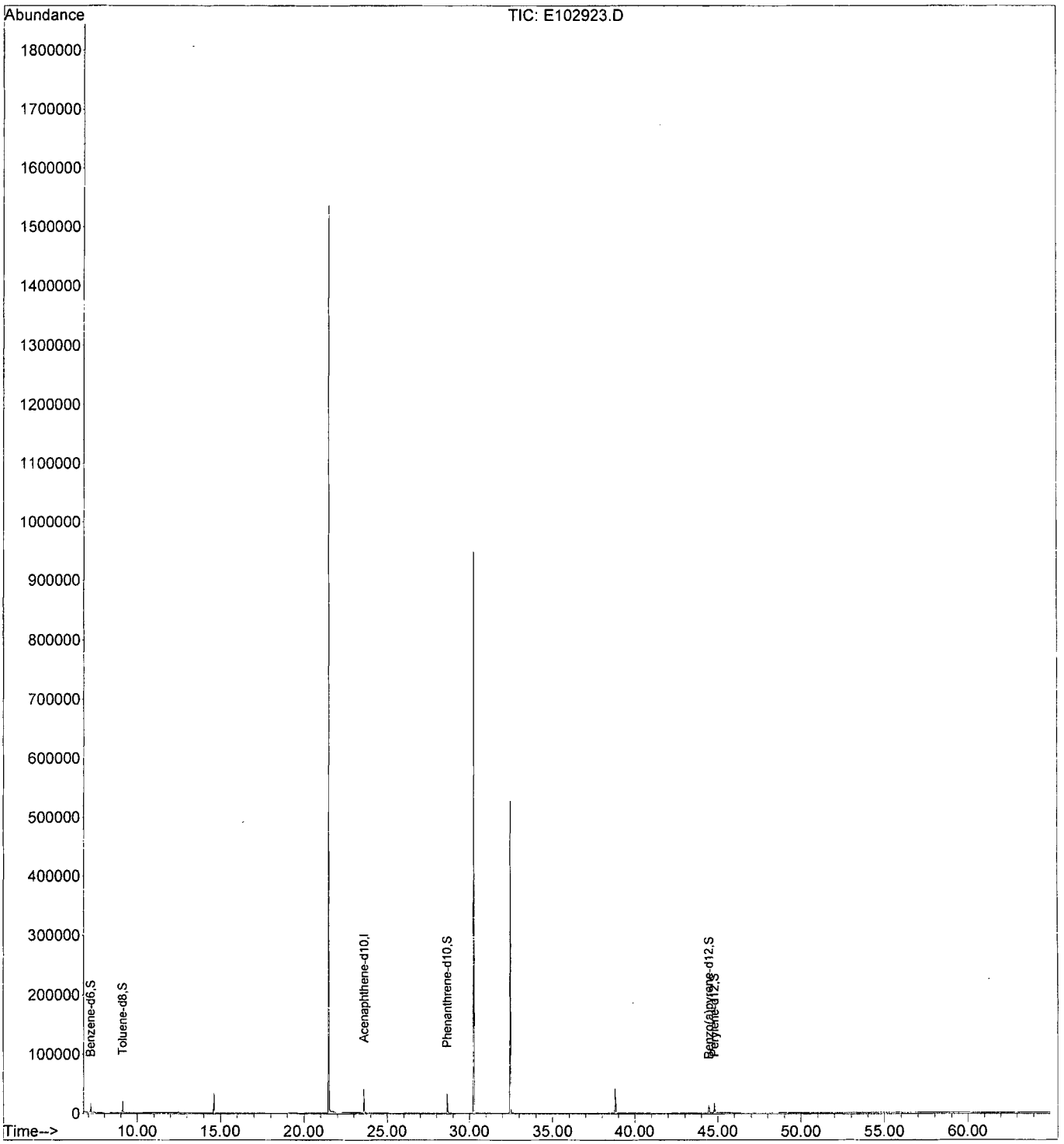
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102923.D
Acq On : 30 Oct 2010 4:57 pm
Operator : JAR
Sample : AE101015-06
Misc : BBNPP-CW12-C
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 08:39:50 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102924.D
Acq On : 30 Oct 2010 6:13 pm
Operator : JAR
Sample : AE101015-07
Misc : BBNPP-CW5-C
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 08:02:19 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

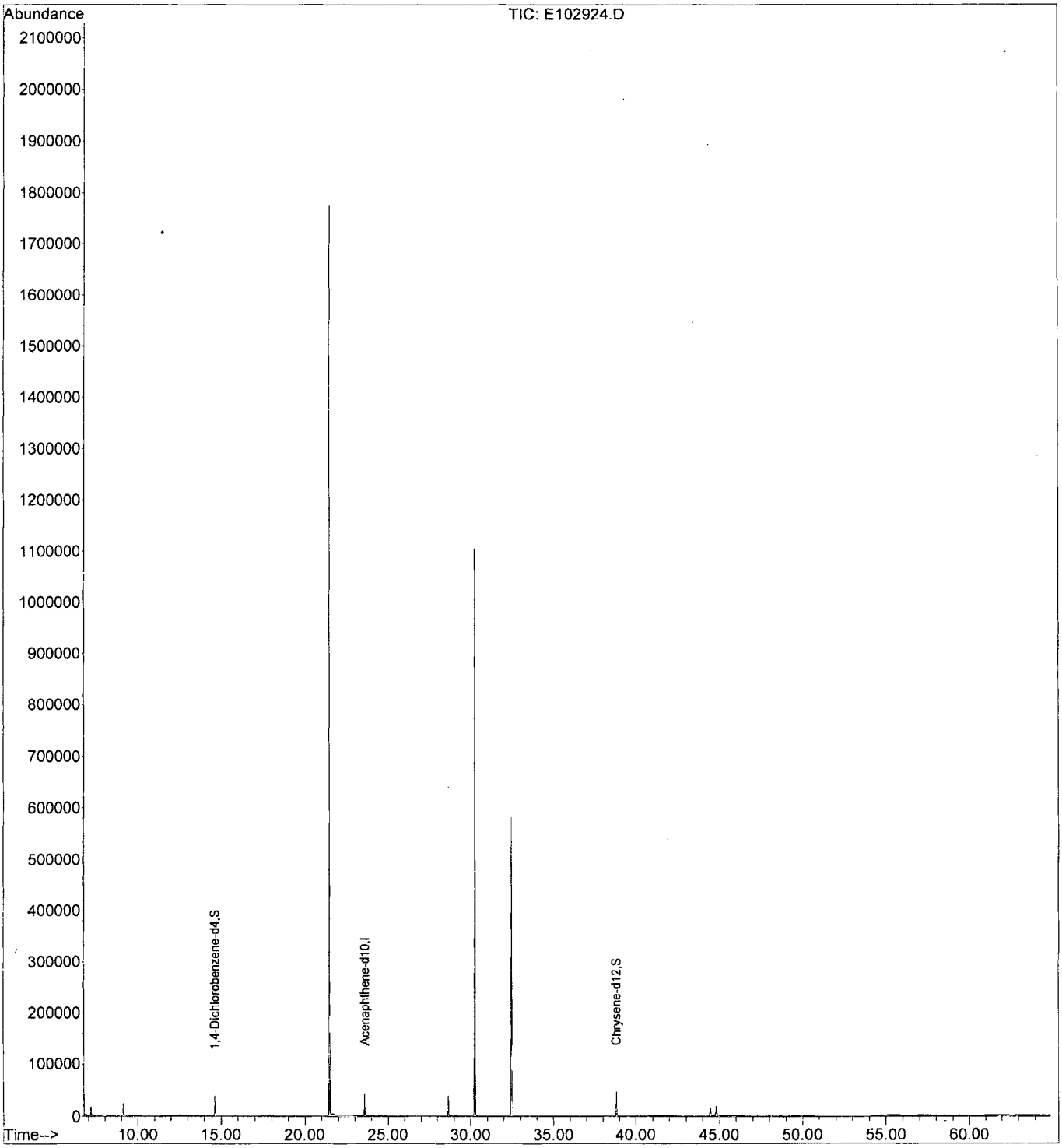
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48879	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26534	0.799	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.80	240	77145	0.723	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

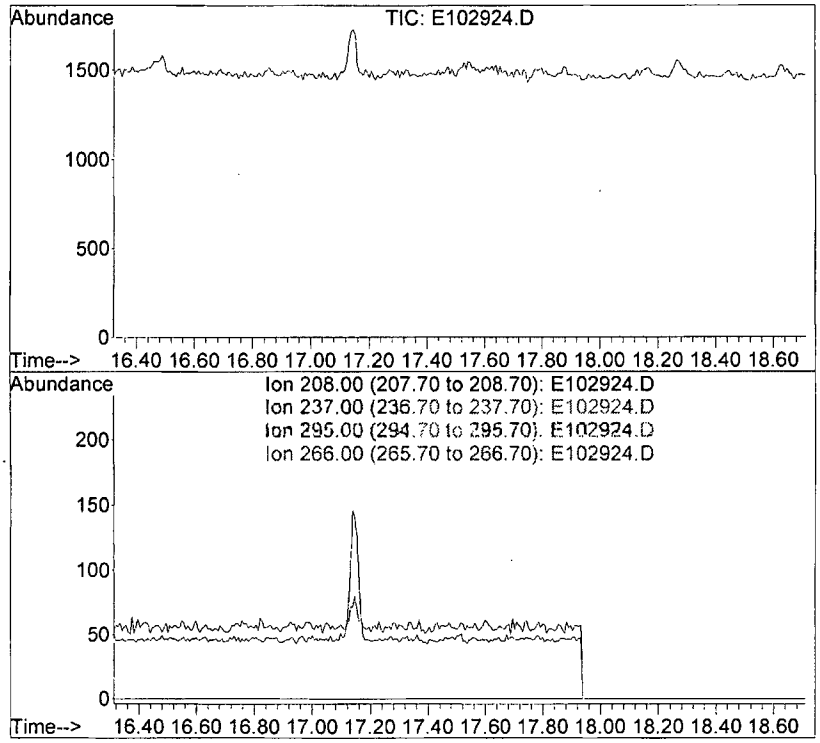
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102924.D
Acq On : 30 Oct 2010 6:13 pm
Operator : JAR
Sample : AE101015-07
Misc : BBNPP-CW5-C
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 08:02:19 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



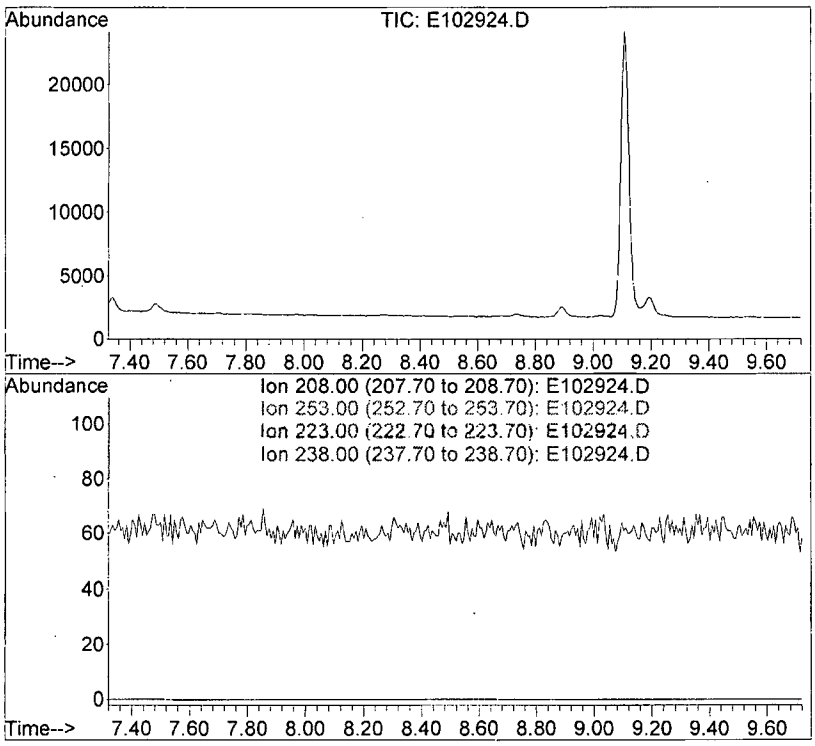


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102924.D
Acq: 30 Oct 2010 6:13 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

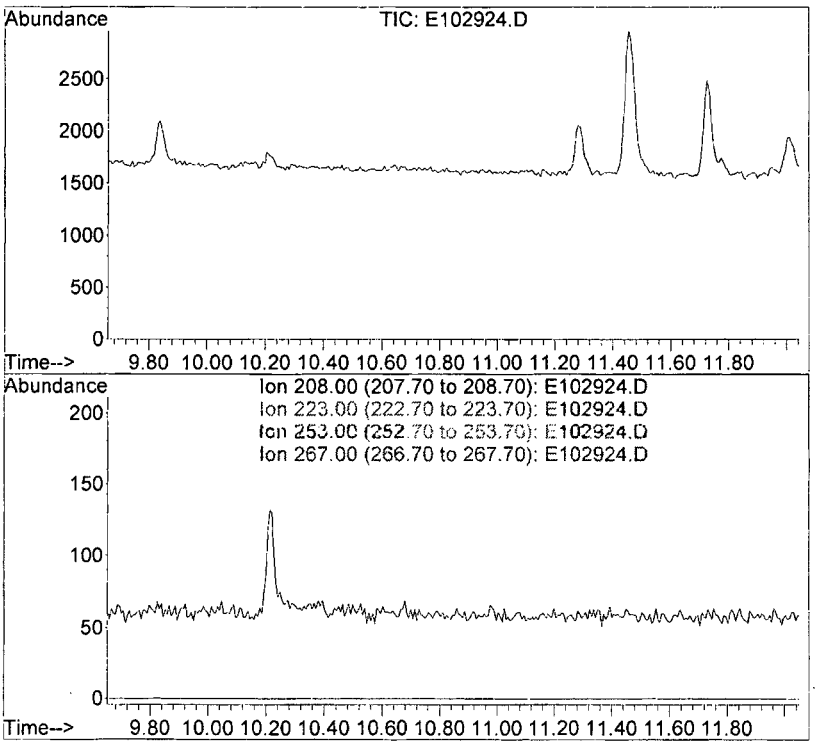


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102924.D
Acq: 30 Oct 2010 6:13 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

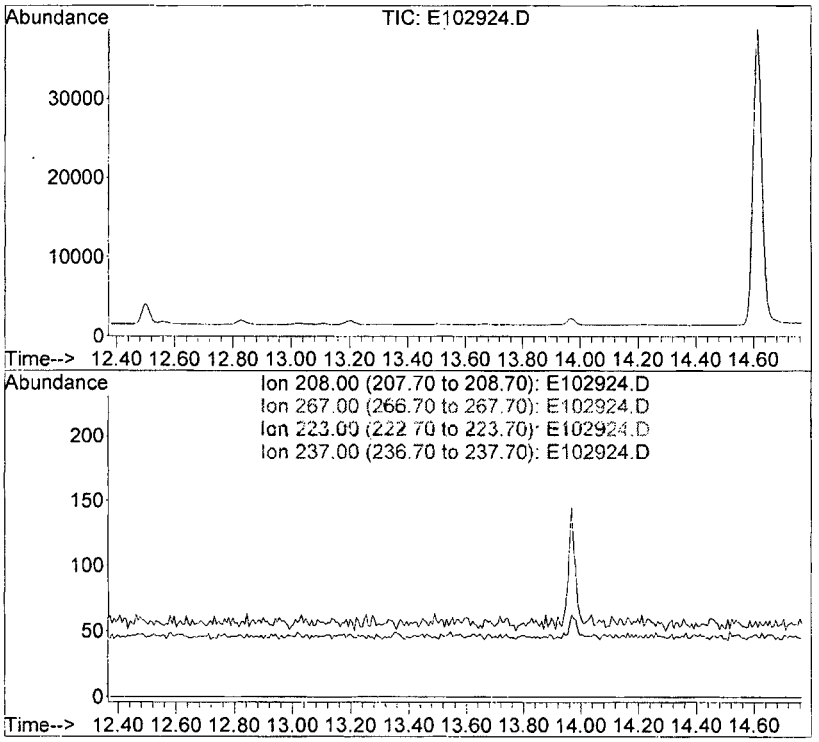


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102924.D
Acq: 30 Oct 2010 6:13 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

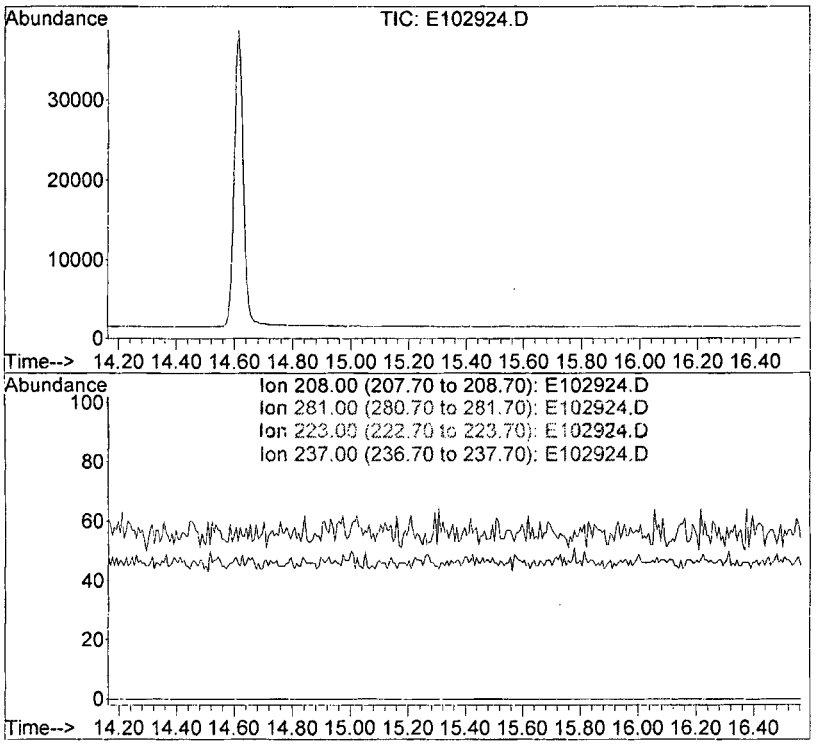


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102924.D
Acq: 30 Oct 2010 6:13 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102924.D
Acq: 30 Oct 2010 6:13 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102924.D
Acq On : 30 Oct 2010 6:13 pm
Operator : JAR
Sample : AE101015-07
Misc : BBNPP-CW5-C
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 08:39:52 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48879	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	30815	0.532	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	53.00%	
3) Toluene-d8	9.11	98	44685	0.722	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	72.00%	
4) Phenanthrene-d10	28.65	188	81546	0.799	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	80.00%	
5) Benzo(a)pyrene-d12	44.45	264	38110	0.627	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	63.00%	
6) Perylene-d12	44.80	264	44423	0.584	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	58.00%	

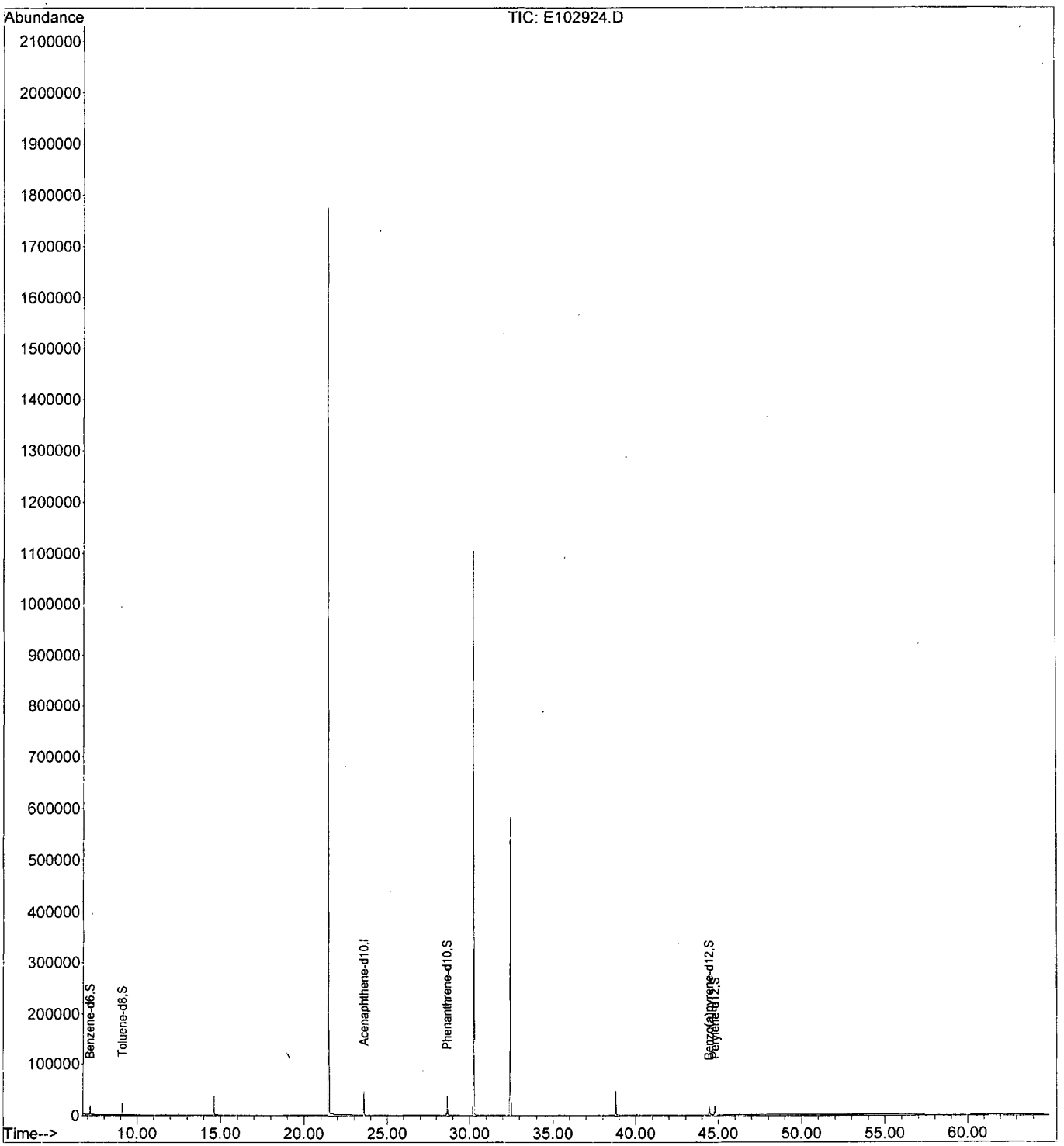
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102924.D
Acq On : 30 Oct 2010 6:13 pm
Operator : JAR
Sample : AE101015-07
Misc : BBNPP-CW5-C
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 08:39:52 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102925.D
Acq On : 30 Oct 2010 7:29 pm
Operator : JAR
Sample : AE101015-07MS
Misc : Matrix Spike of BBNPP-CW5-C
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 08:02:21 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

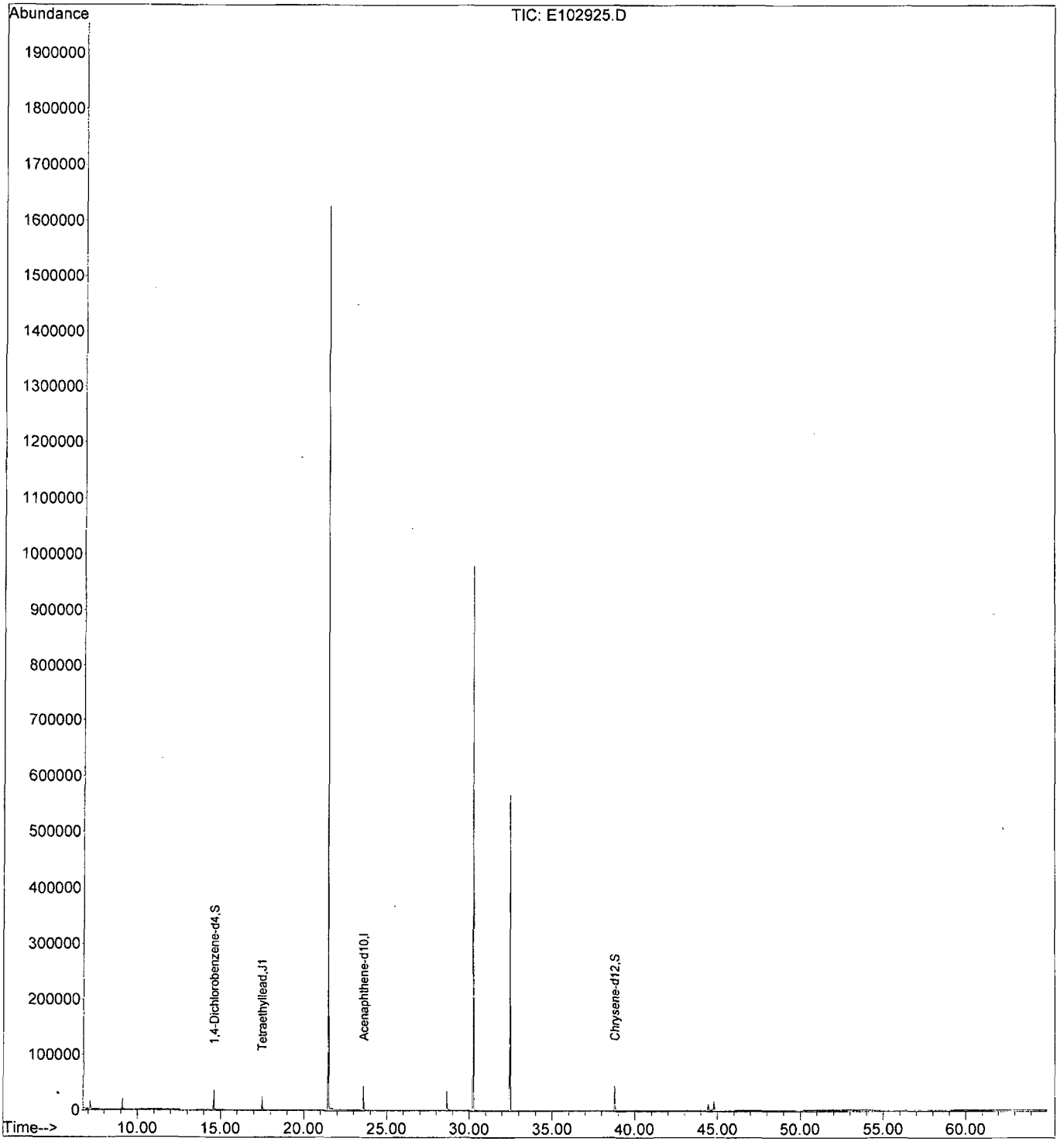
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47040	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25924	0.811	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.80	240	73694	0.717	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	14806	1.175	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

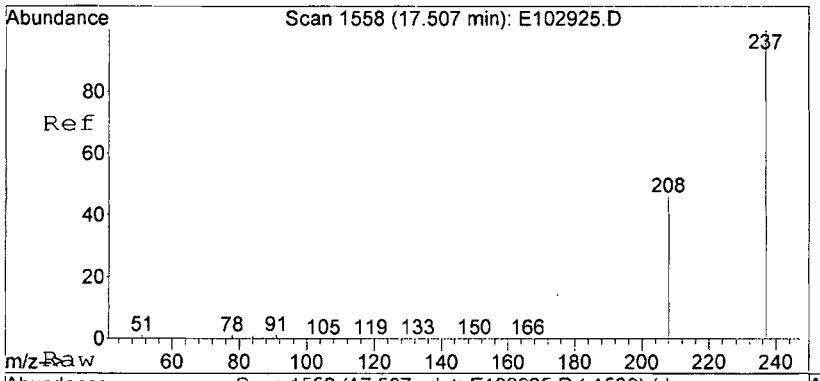
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102925.D
Acq On : 30 Oct 2010 7:29 pm
Operator : JAR
Sample : AE101015-07MS
Misc : Matrix Spike of BBNPP-CW5-C
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 08:02:21 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

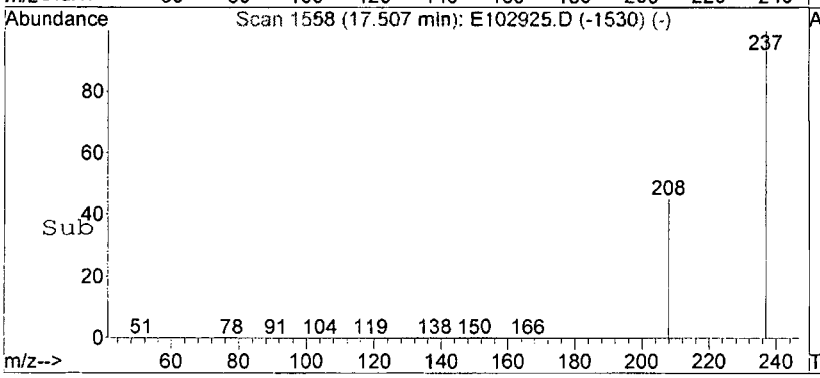


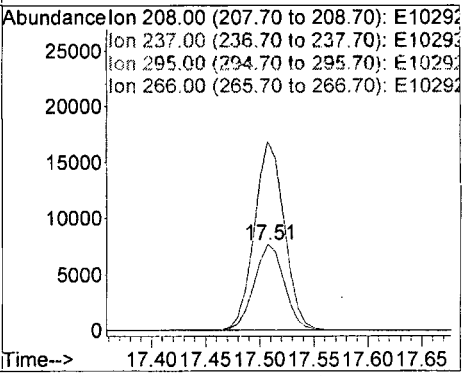


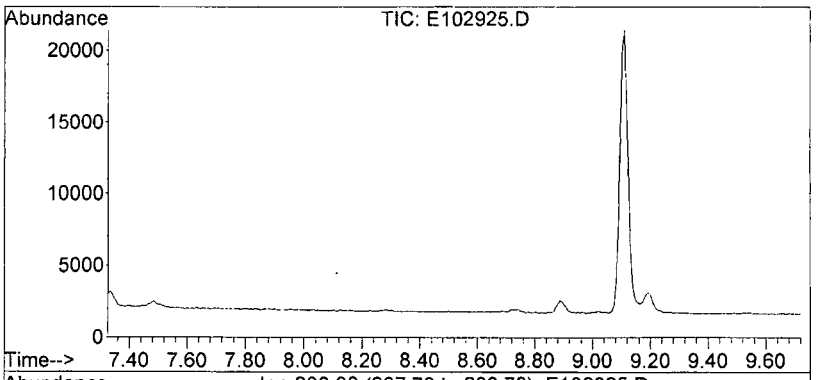
#4
Tetraethyllead
Concen: 1.175 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102925.D
Acq: 30 Oct 2010 7:29 pm

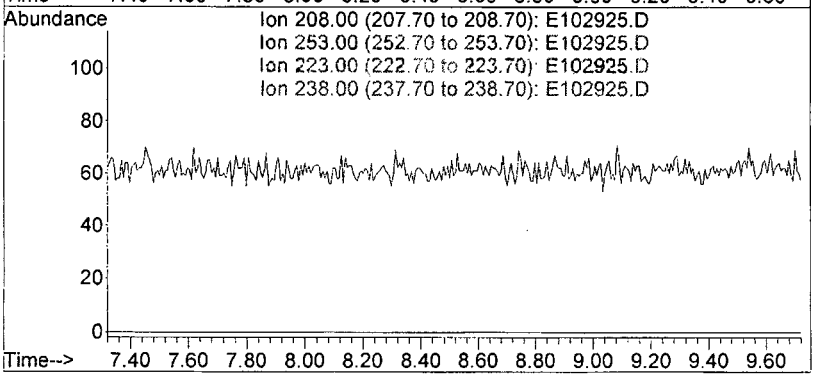
Tgt Ion:208 Resp: 14806

Ion	Ratio	Lower	Upper
208	100		
237	220.0	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







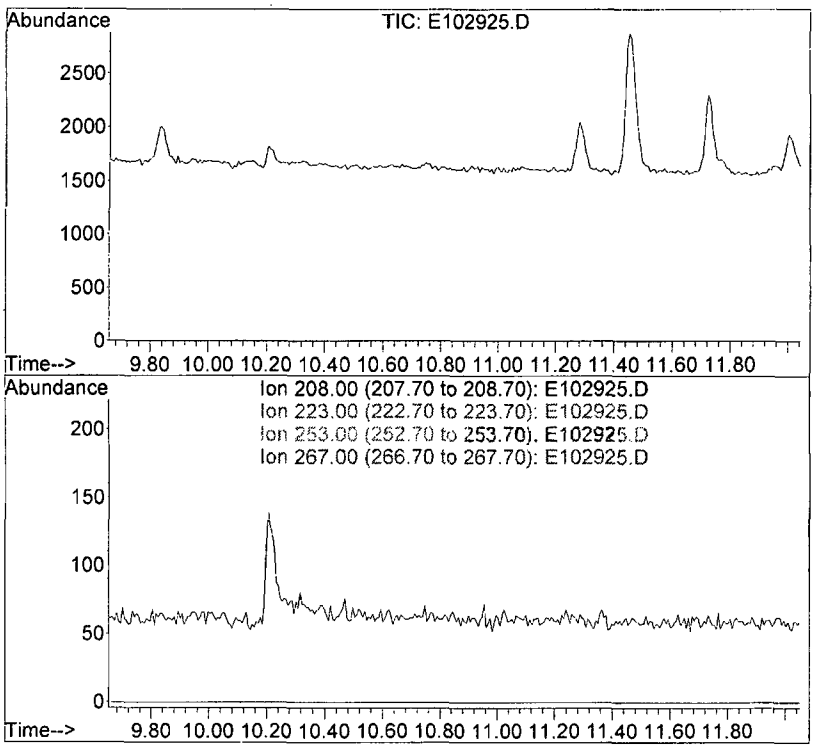


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102925.D
Acq: 30 Oct 2010 7:29 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

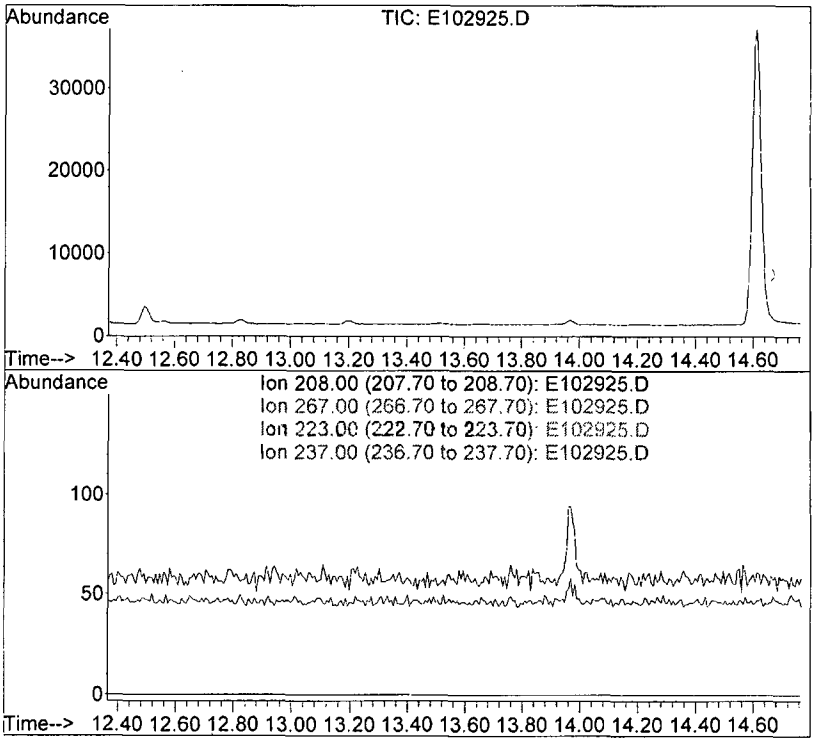


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102925.D
Acq: 30 Oct 2010 7:29 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

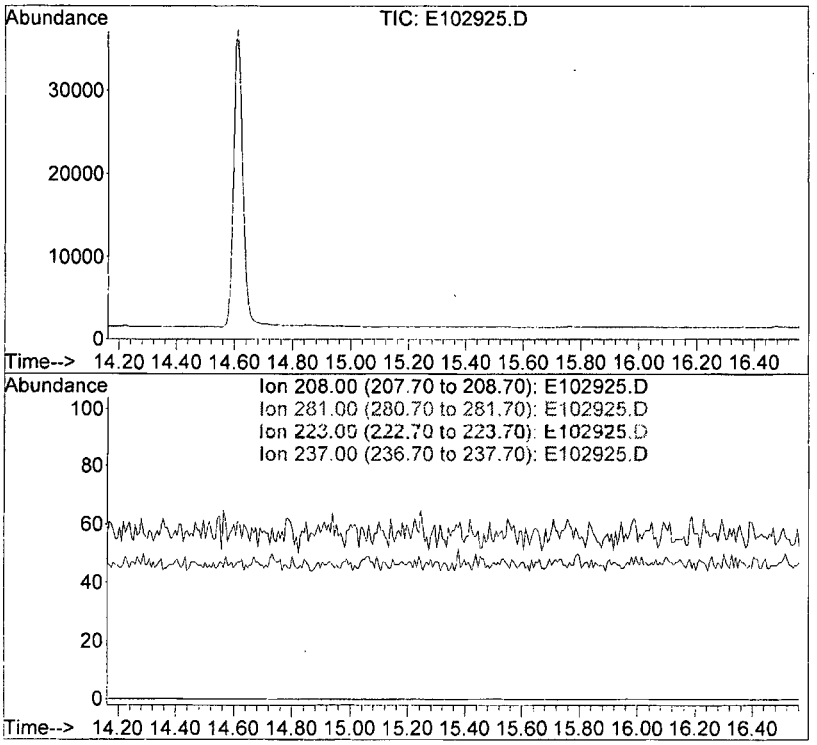


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102925.D
Acq: 30 Oct 2010 7:29 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102925.D
Acq: 30 Oct 2010 7:29 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102925.D
Acq On : 30 Oct 2010 7:29 pm
Operator : JAR
Sample : AE101015-07MS
Misc : Matrix Spike of BBNPP-CW5-C
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 08:39:54 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	47040	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.14	84	23970	0.430	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	43.00%	
3) Toluene-d8	9.11	98	39249	0.659	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	66.00%	
4) Phenanthrene-d10	28.65	188	72807	0.741	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	74.00%	
5) Benzo(a)pyrene-d12	44.45	264	30231	0.517	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	52.00%	
6) Perylene-d12	44.79	264	36424	0.497	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	50.00%	

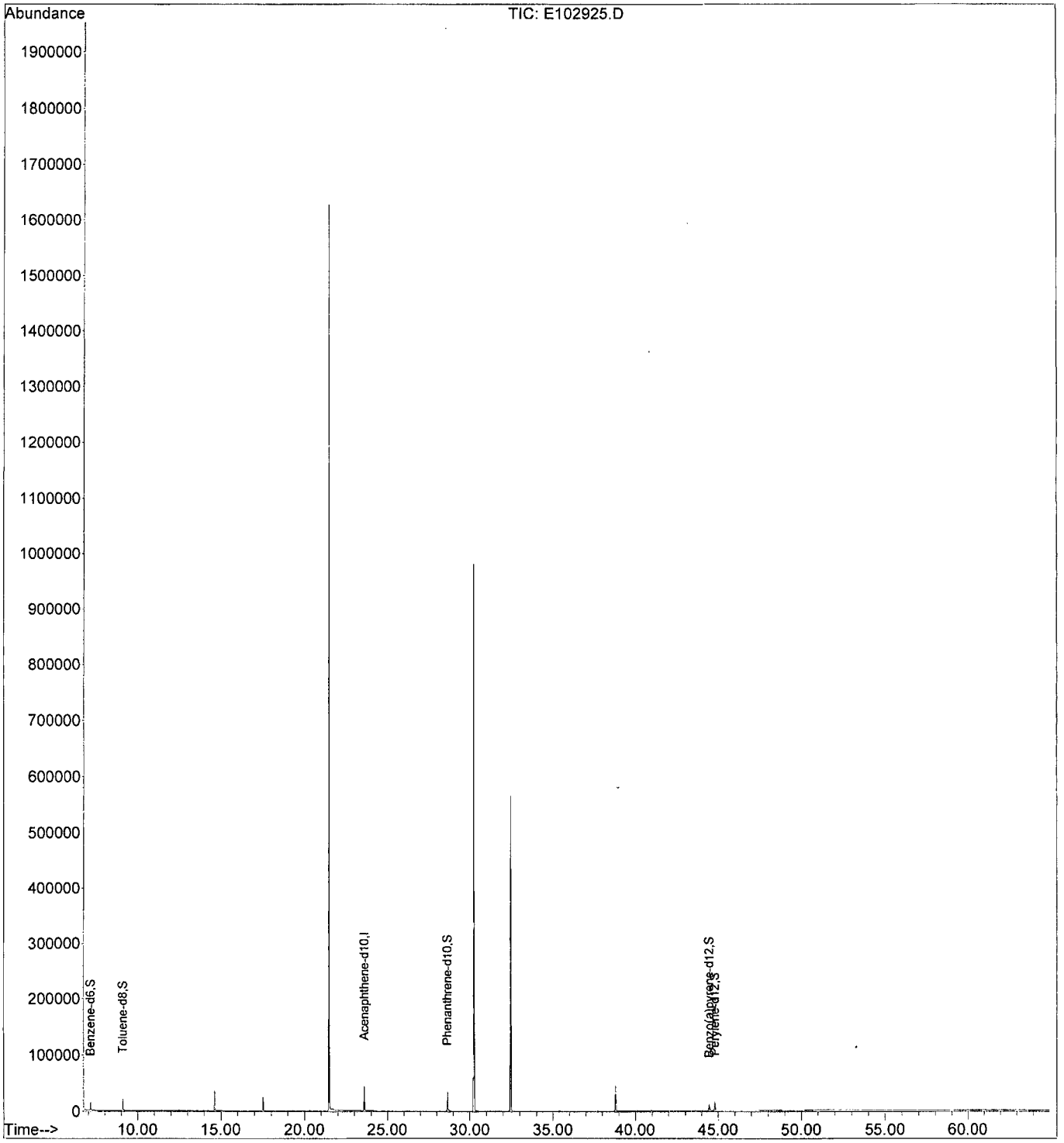
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102925.D
Acq On : 30 Oct 2010 7:29 pm
Operator : JAR
Sample : AE101015-07MS
Misc : Matrix Spike of BBNPP-CW5-C
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 08:39:54 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102926.D
Acq On : 30 Oct 2010 8:45 pm
Operator : JAR
Sample : AE101015-07MSD
Misc : Matrix Spike Duplicate of BBNPP-CW5-C
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 01 08:02:24 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

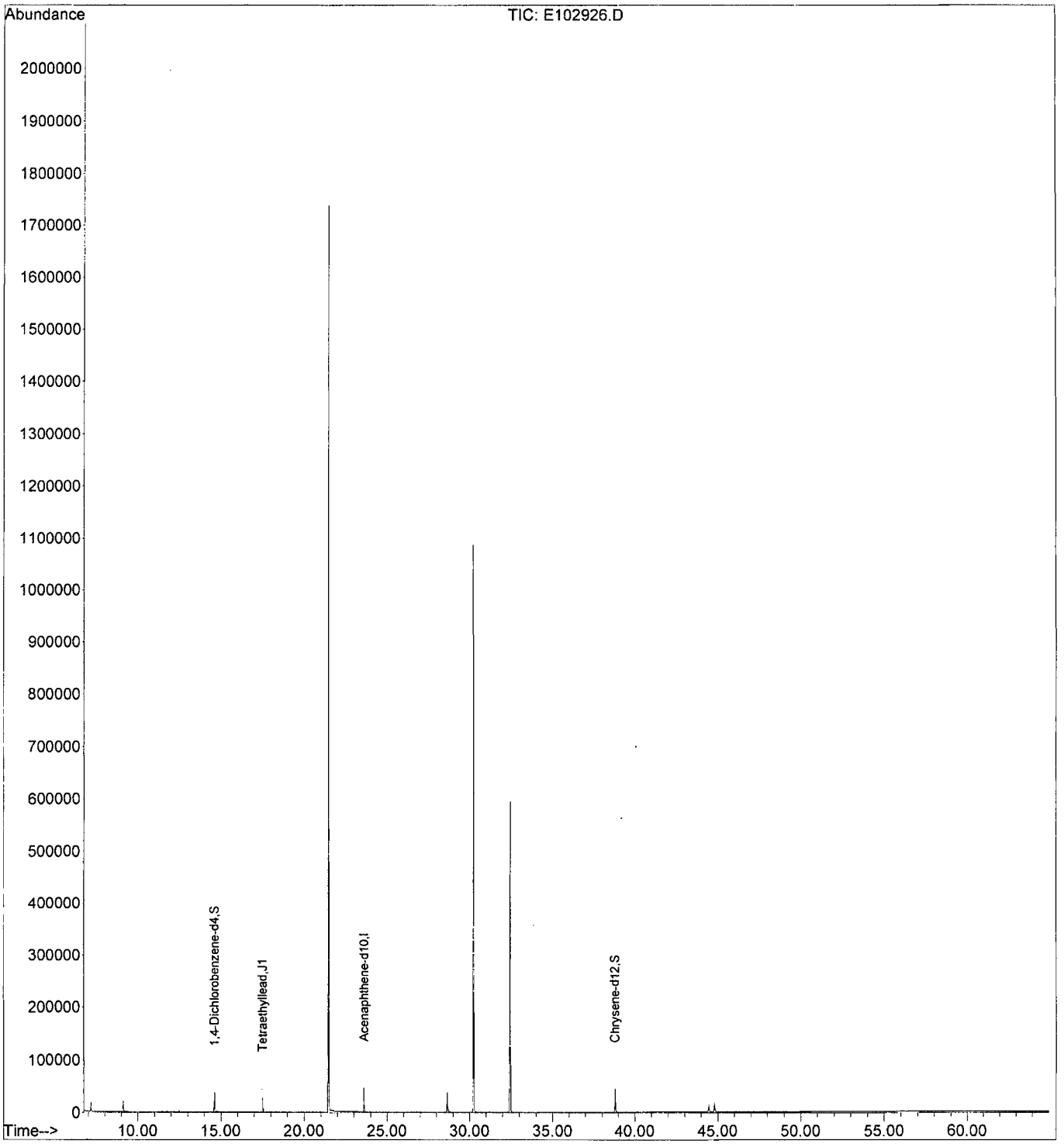
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48999	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26435	0.794	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	77433	0.724	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	16175	1.232	ug/mL#	52
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

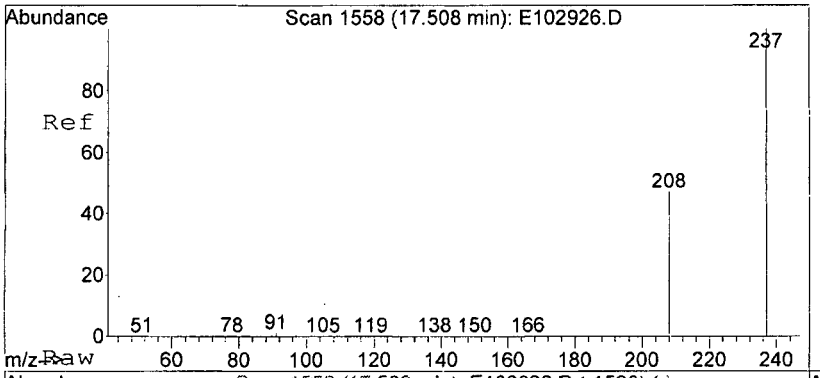
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102926.D
Acq On : 30 Oct 2010 8:45 pm
Operator : JAR
Sample : AE101015-07MSD
Misc : Matrix Spike Duplicate of BBNPP-CW5-C
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 01 08:02:24 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

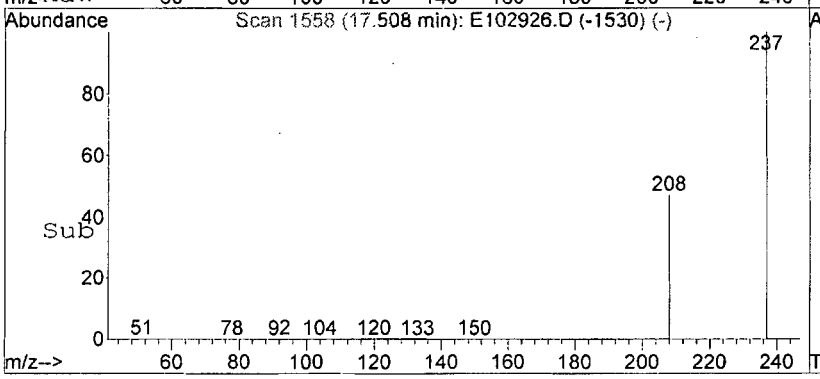


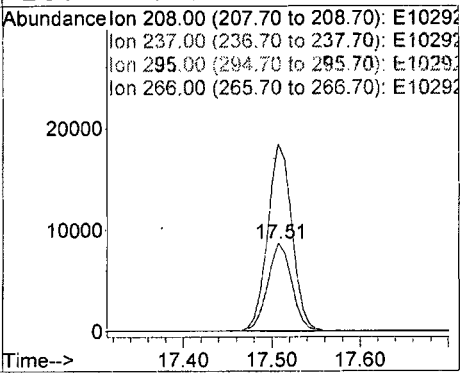


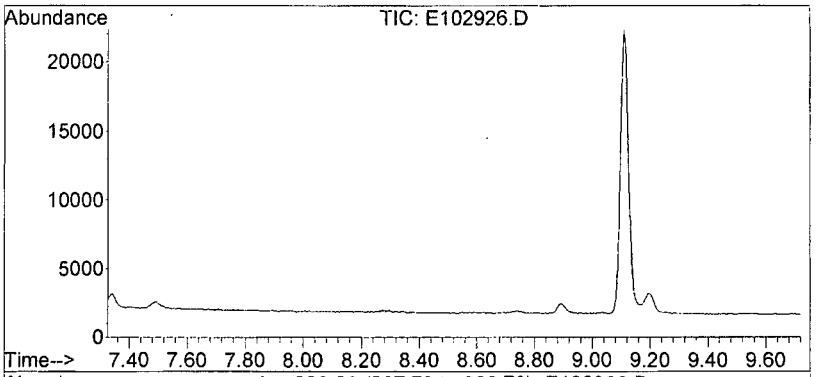
#4
Tetraethyllead
Concen: 1.232 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102926.D
Acq: 30 Oct 2010 8:45 pm

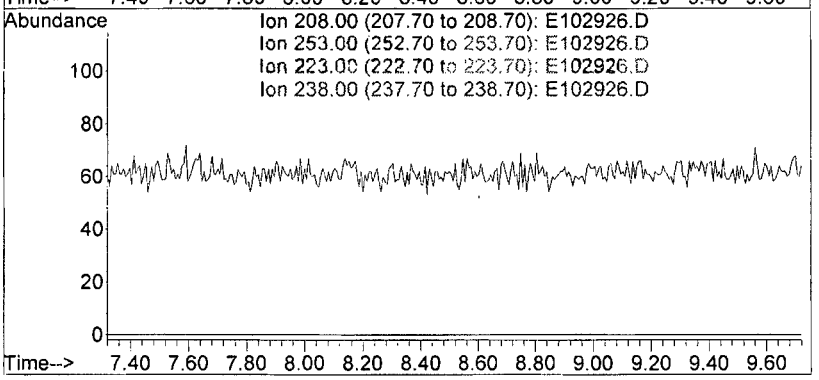
Tgt Ion:208 Resp: 16175

Ion	Ratio	Lower	Upper
208	100		
237	213.0	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







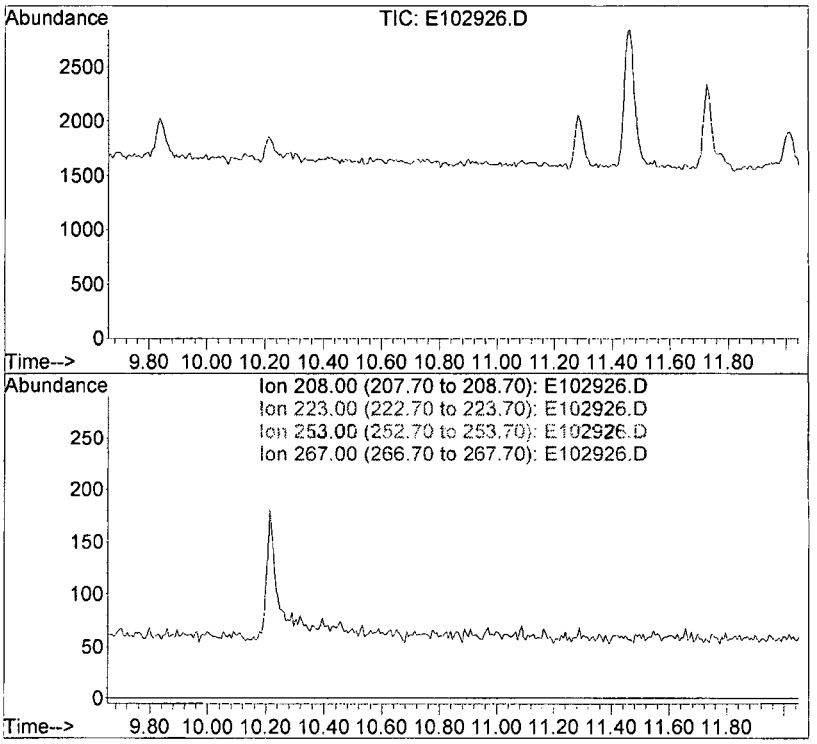


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102926.D
Acq: 30 Oct 2010 8:45 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

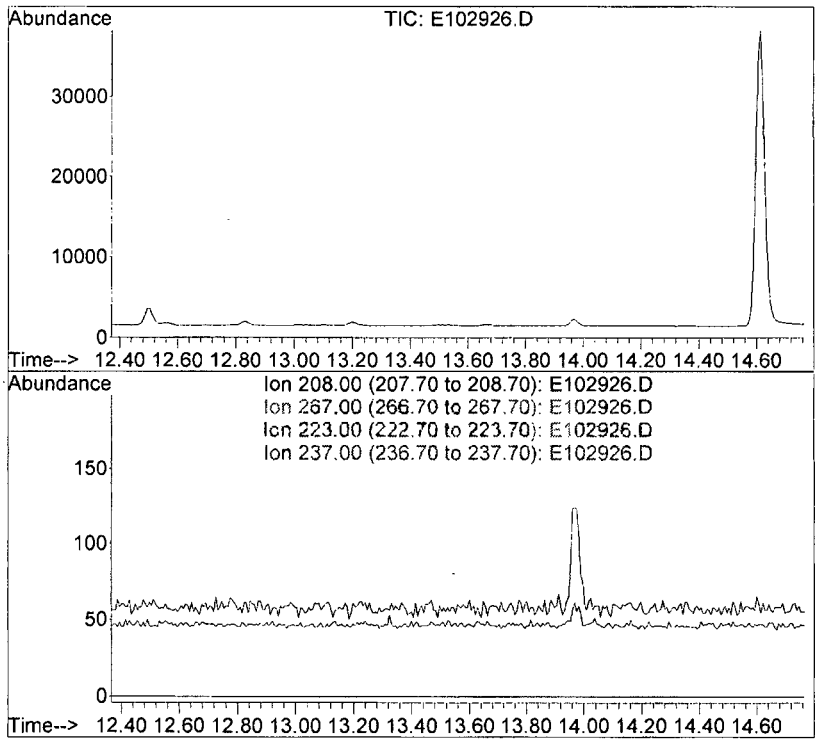


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102926.D
Acq: 30 Oct 2010 8:45 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

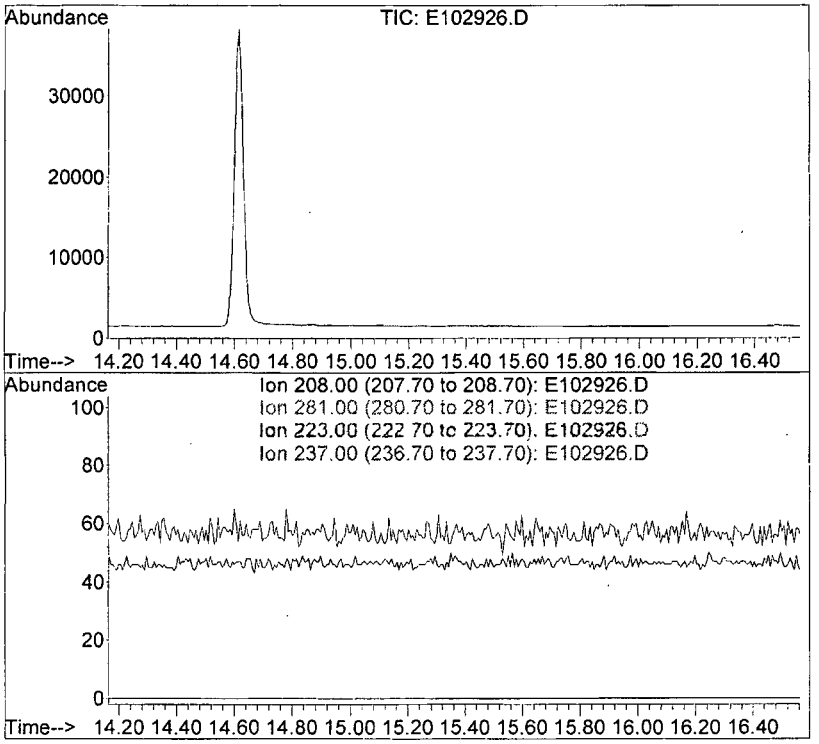


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102926.D
Acq: 30 Oct 2010 8:45 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102926.D
Acq: 30 Oct 2010 8:45 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102926.D
Acq On : 30 Oct 2010 8:45 pm
Operator : JAR
Sample : AE101015-07MSD
Misc : Matrix Spike Duplicate of BBNPP-CW5-C
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 01 08:39:56 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	48999	1.000	µg/mL	0.00
System Monitoring Compounds						
2) Benzene-d6	7.15	84	27463	0.473	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	47.00%	
3) Toluene-d8	9.11	98	41144	0.663	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	66.00%	
4) Phenanthrene-d10	28.65	188	77897	0.761	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	76.00%	
5) Benzo(a)pyrene-d12	44.45	264	35262	0.578	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	58.00%	
6) Perylene-d12	44.80	264	41211	0.540	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	54.00%	

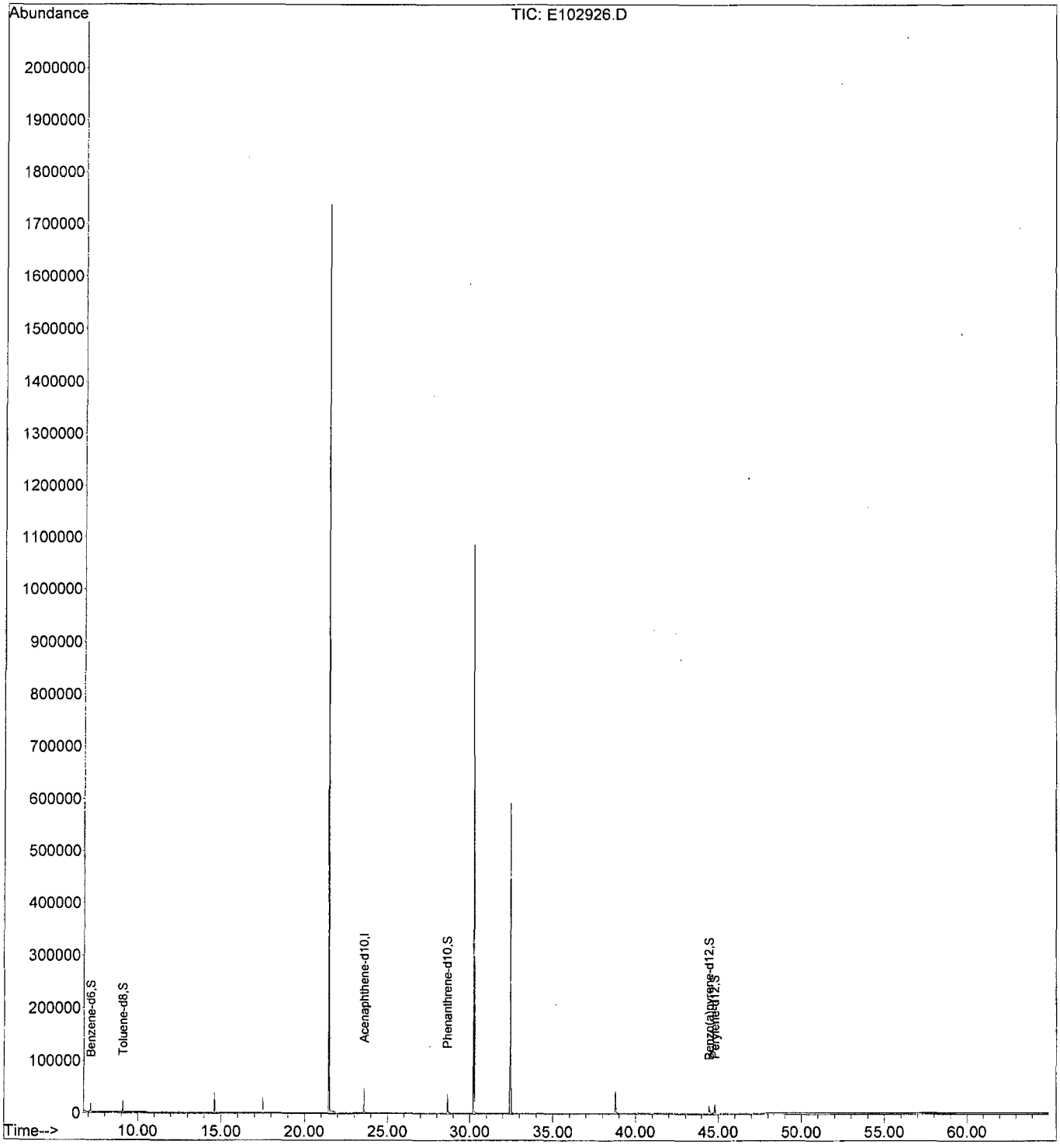
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102926.D
Acq On : 30 Oct 2010 8:45 pm
Operator : JAR
Sample : AE101015-07MSD
Misc : Matrix Spike Duplicate of BBNPP-CW5-C
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 01 08:39:56 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102927.D
Acq On : 30 Oct 2010 10:01 pm
Operator : JAR
Sample : AE101015-08
Misc : BBNPP-CW8-C
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 01 08:02:26 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

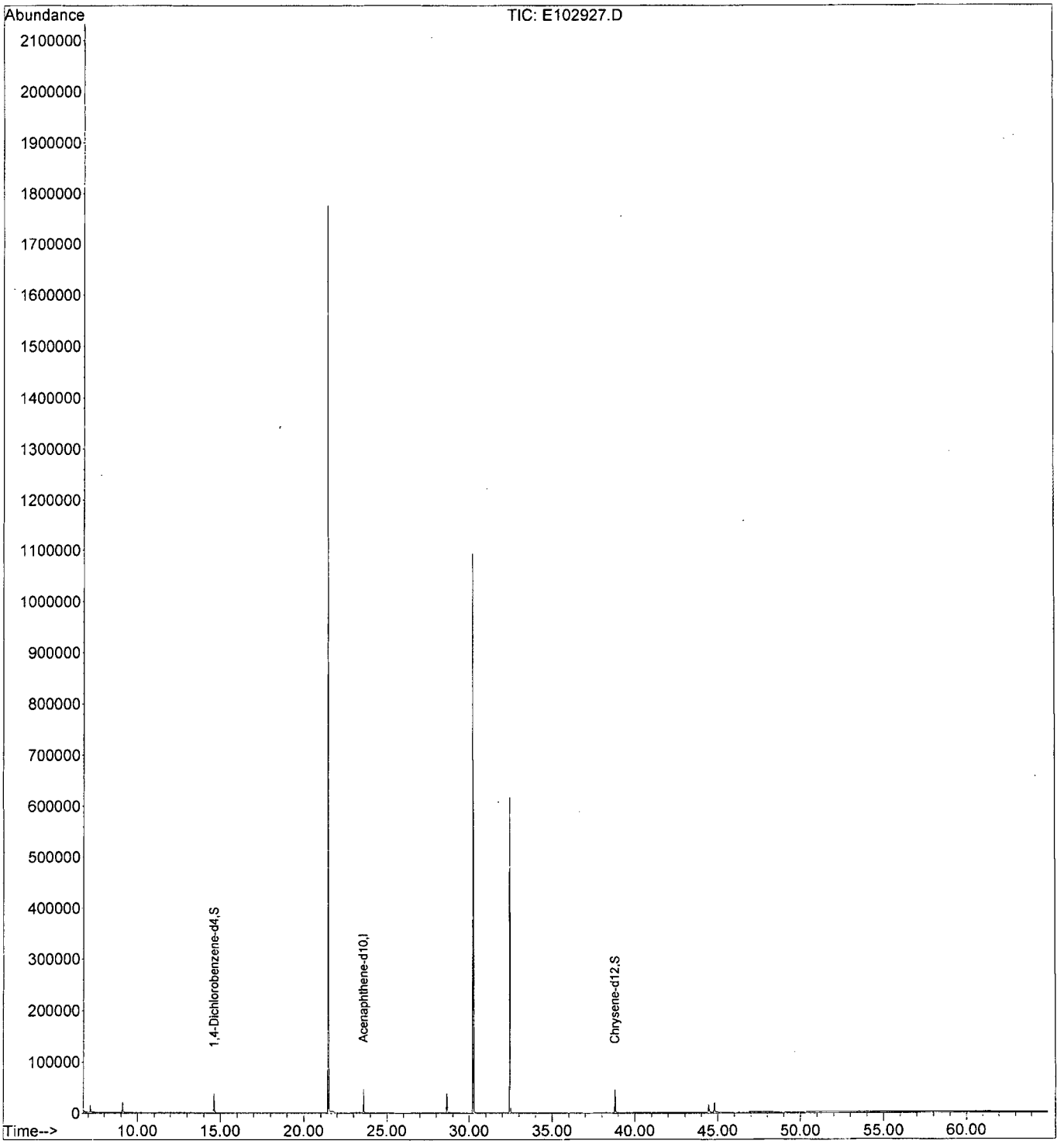
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	50543	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	27171	0.791	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.79	240	78651	0.713	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	64.55%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

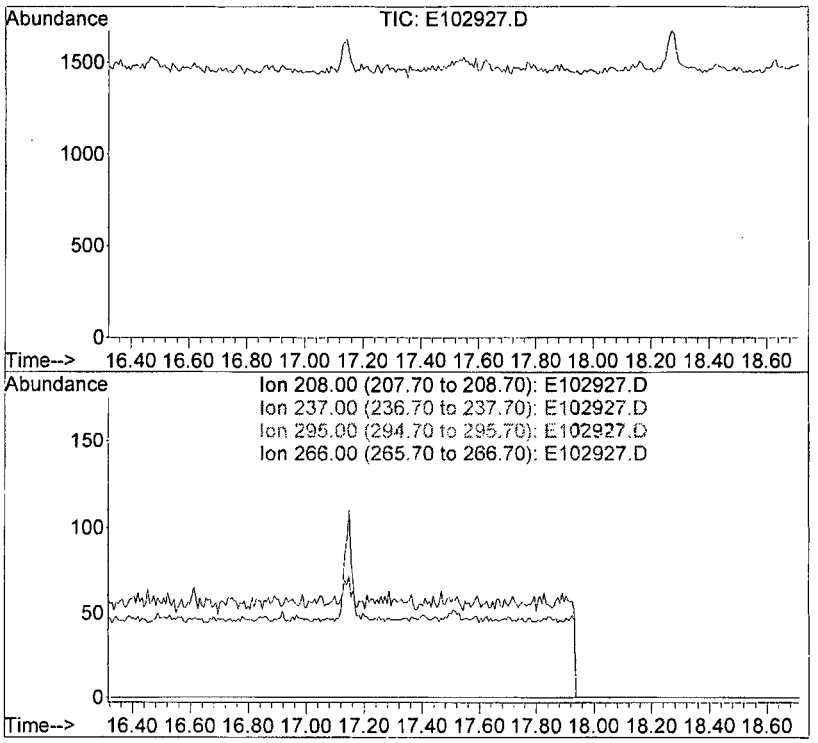
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102927.D
Acq On : 30 Oct 2010 10:01 pm
Operator : JAR
Sample : AE101015-08
Misc : BBNPP-CW8-C
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 01 08:02:26 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



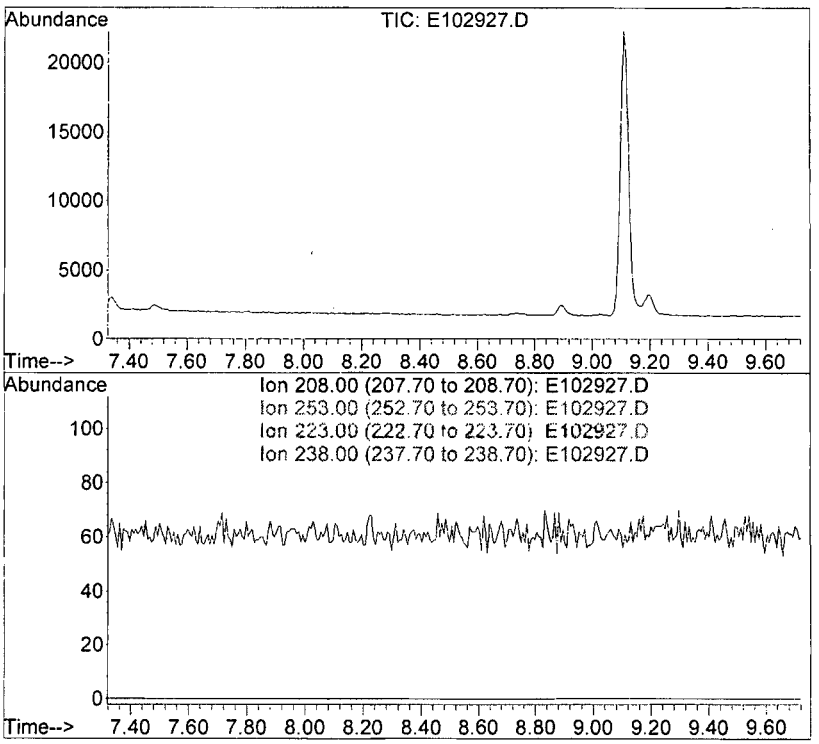


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102927.D
Acq: 30 Oct 2010 10:01 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

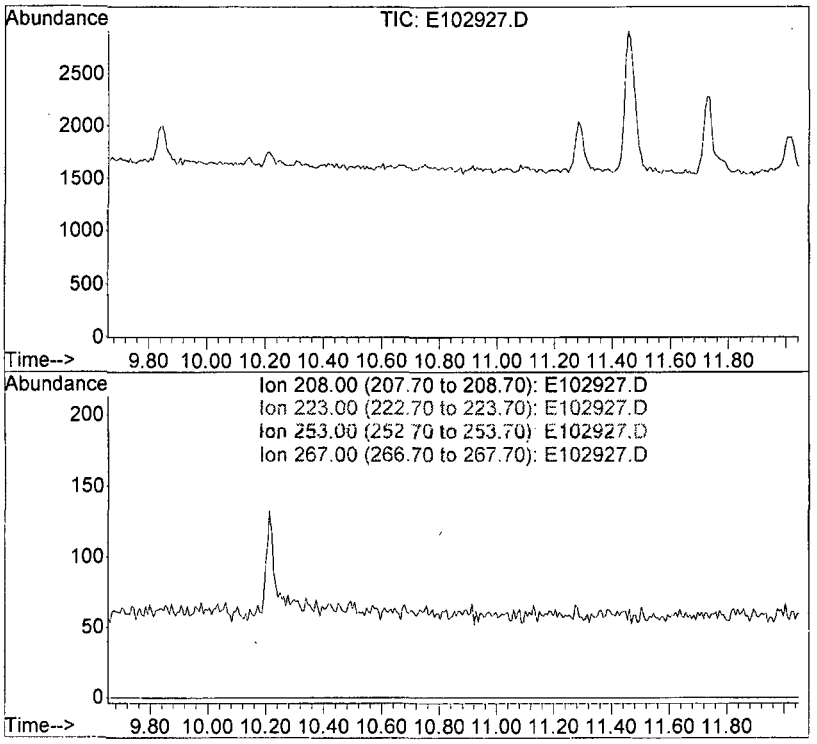


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102927.D
Acq: 30 Oct 2010 10:01 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

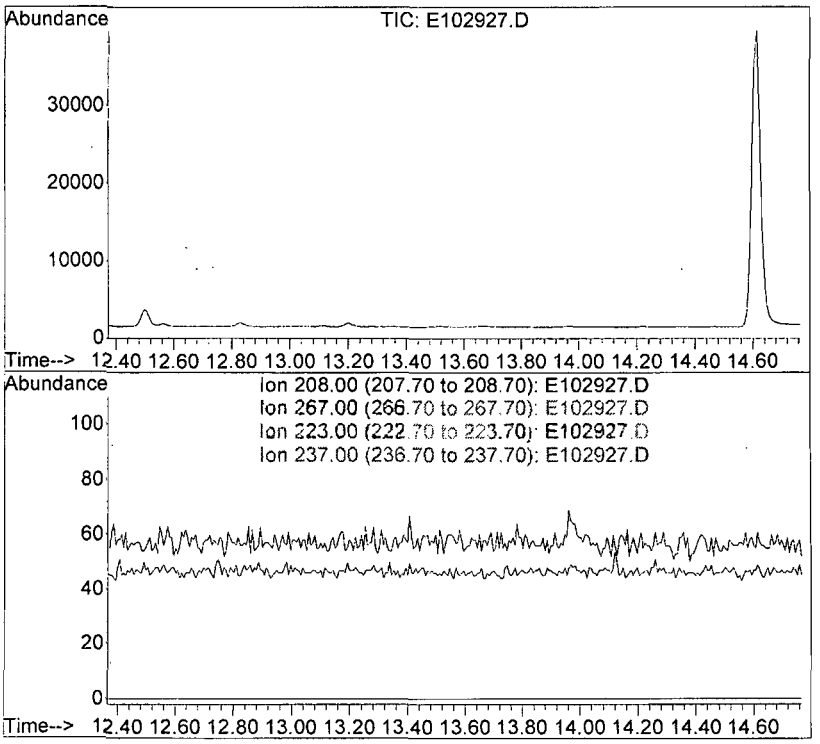


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102927.D
Acq: 30 Oct 2010 10:01 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

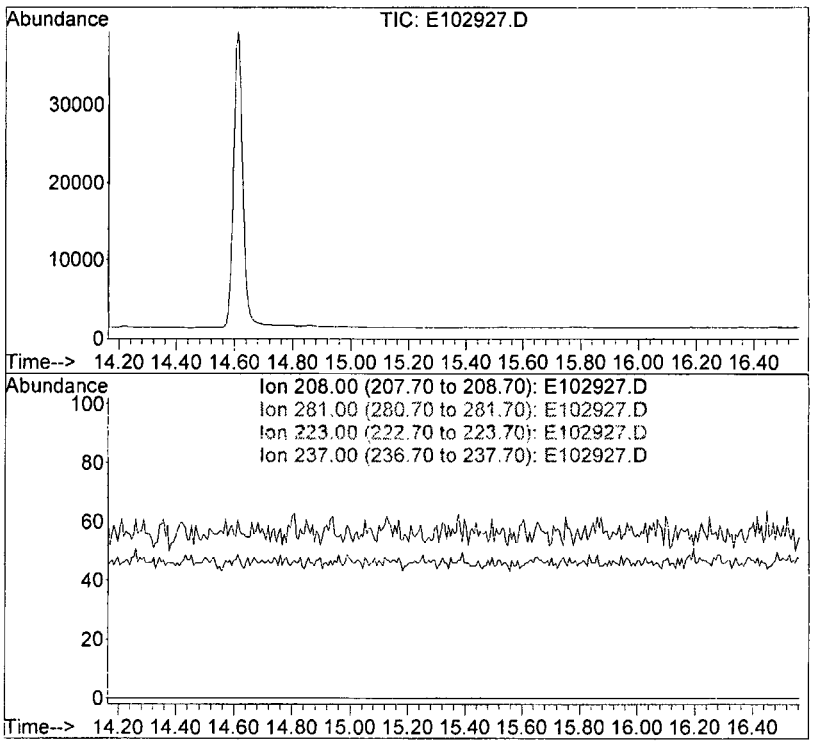


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102927.D
Acq: 30 Oct 2010 10:01 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102927.D
Acq: 30 Oct 2010 10:01 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102927.D
Acq On : 30 Oct 2010 10:01 pm
Operator : JAR
Sample : AE101015-08
Misc : BBNPP-CW8-C
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 01 08:39:58 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	50543	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	24277	0.406	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	41.00%	
3) Toluene-d8	9.11	98	41548	0.649	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	65.00%	
4) Phenanthrene-d10	28.65	188	80091	0.759	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	76.00%	
5) Benzo(a)pyrene-d12	44.45	264	37711	0.600	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	60.00%	
6) Perylene-d12	44.80	264	43679	0.555	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	56.00%	

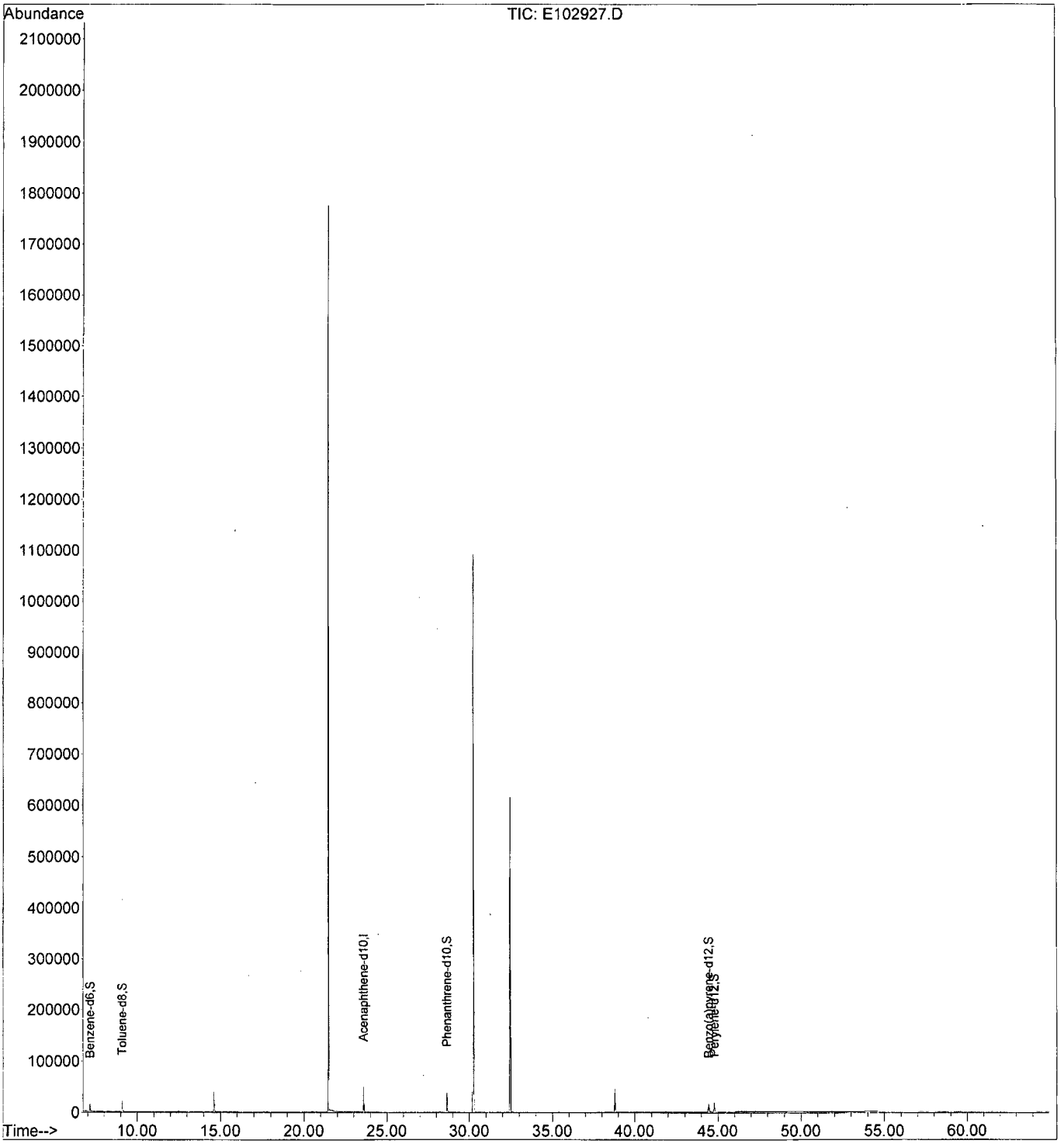
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102927.D
Acq On : 30 Oct 2010 10:01 pm
Operator : JAR
Sample : AE101015-08
Misc : BBNPP-CW8-C
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 01 08:39:58 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102928.D
Acq On : 30 Oct 2010 11:17 pm
Operator : JAR
Sample : AE101015-09
Misc : BBNPP-CW11-C
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 08:02:28 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

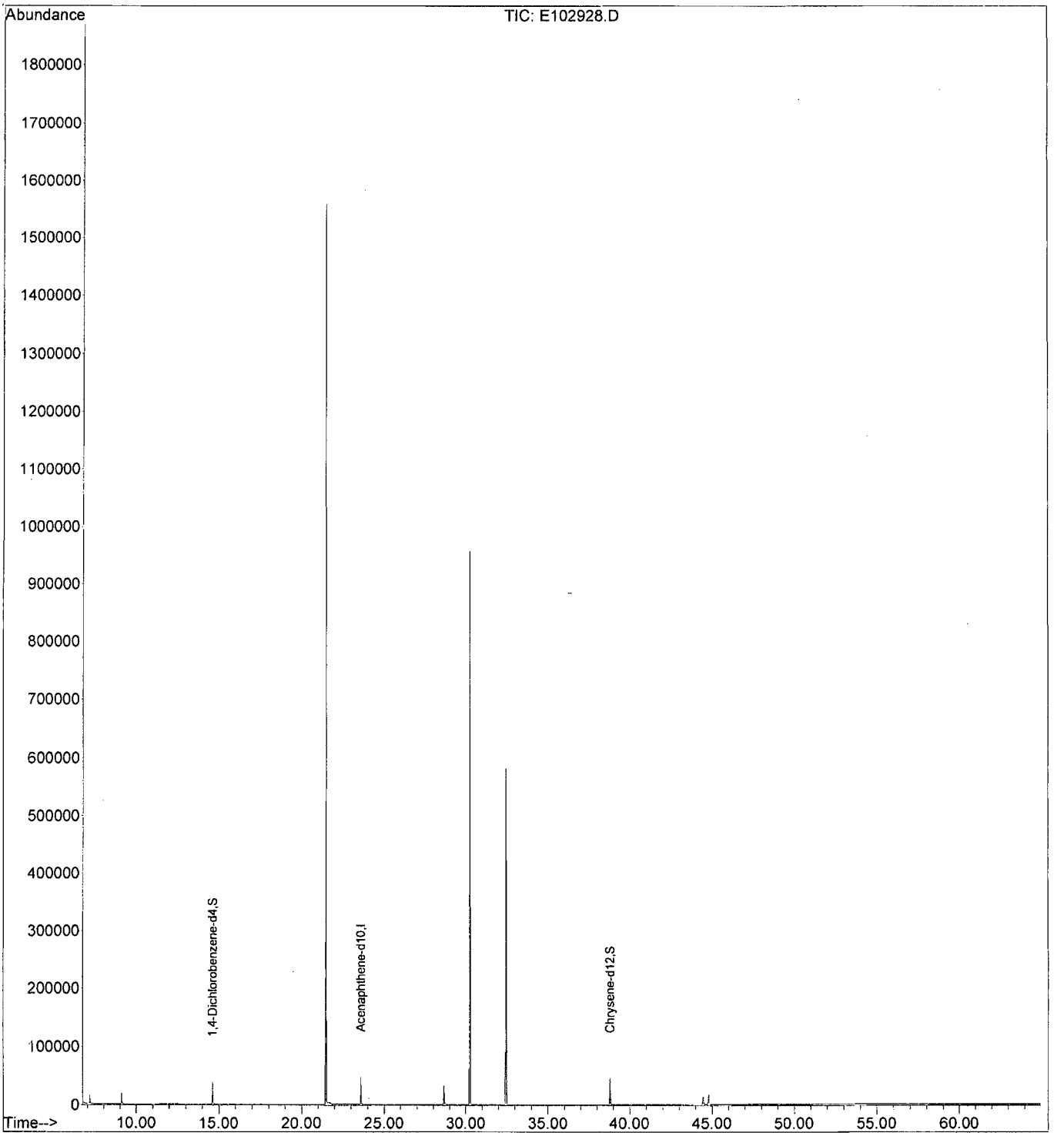
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49547	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26519	0.787	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	77363	0.715	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	64.55%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

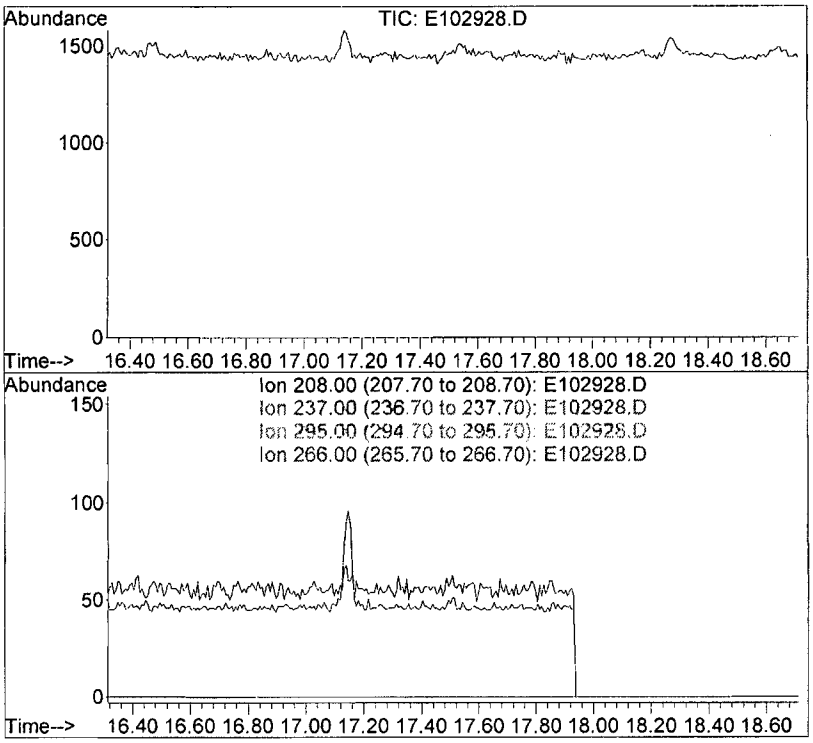
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102928.D
Acq On : 30 Oct 2010 11:17 pm
Operator : JAR
Sample : AE101015-09
Misc : BBNPP-CW11-C
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 08:02:28 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



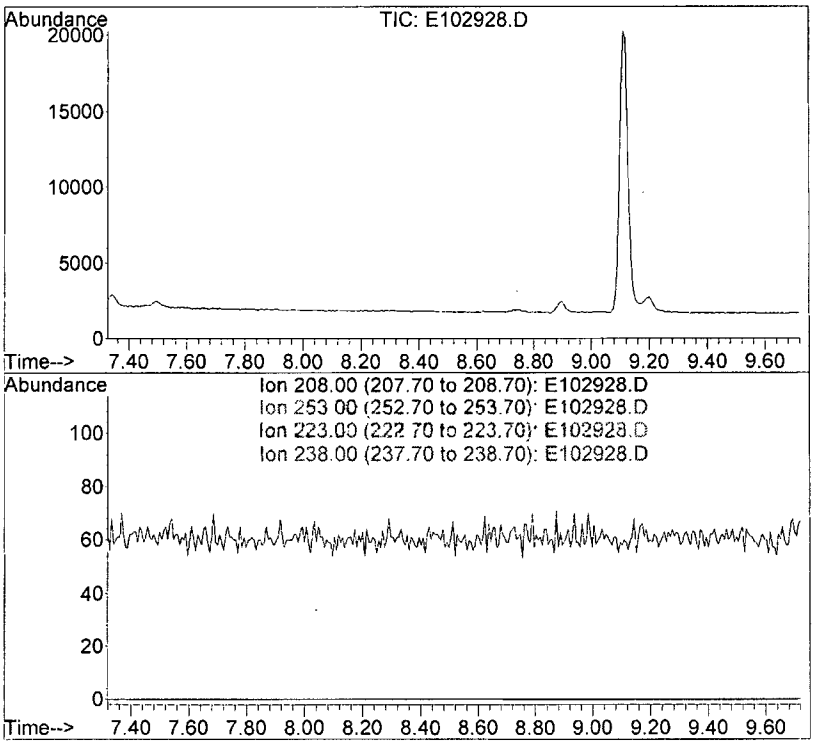


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102928.D
Acq: 30 Oct 2010 11:17 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

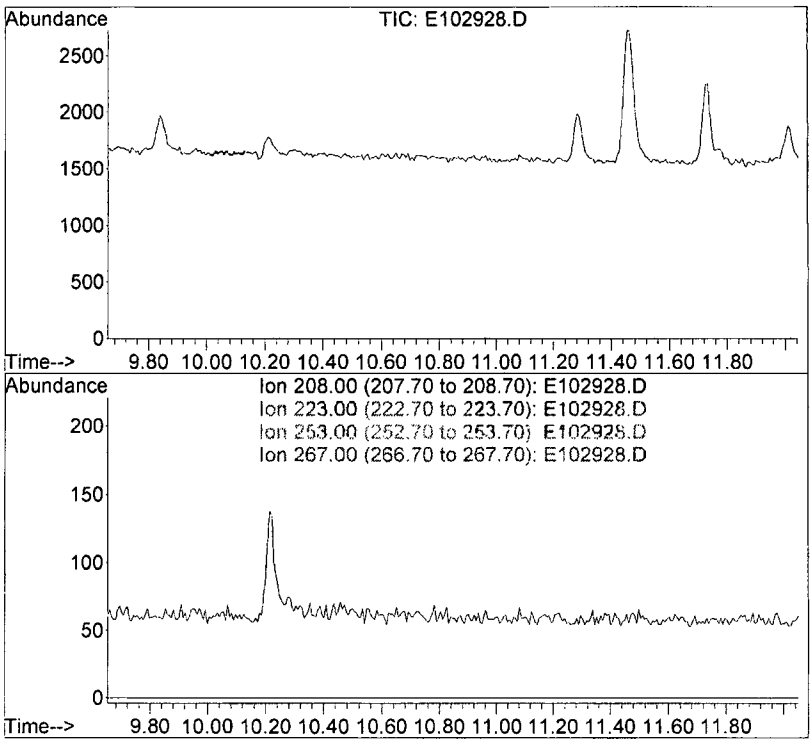


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102928.D
Acq: 30 Oct 2010 11:17 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

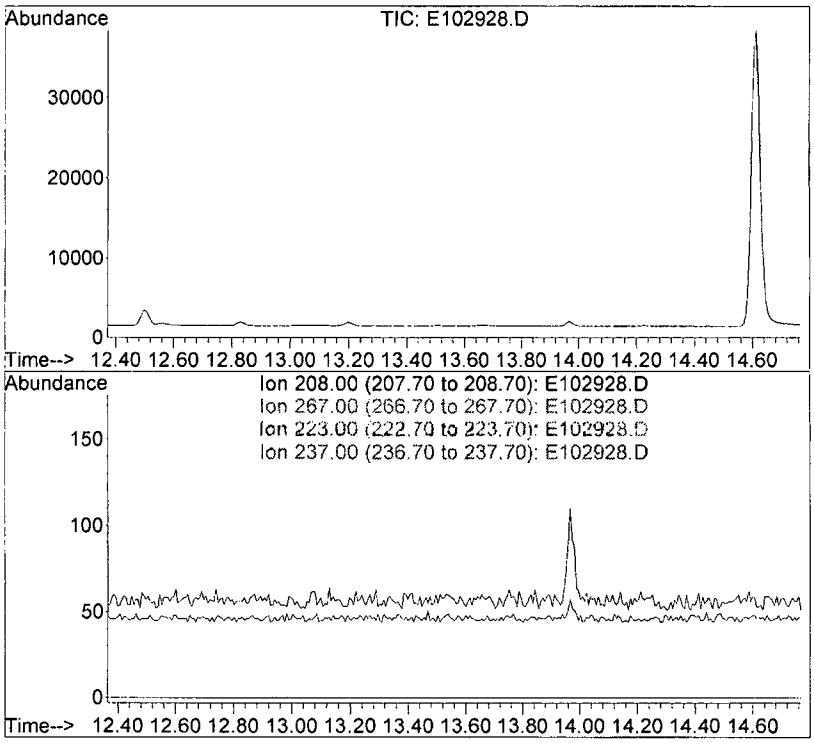


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102928.D
Acq: 30 Oct 2010 11:17 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

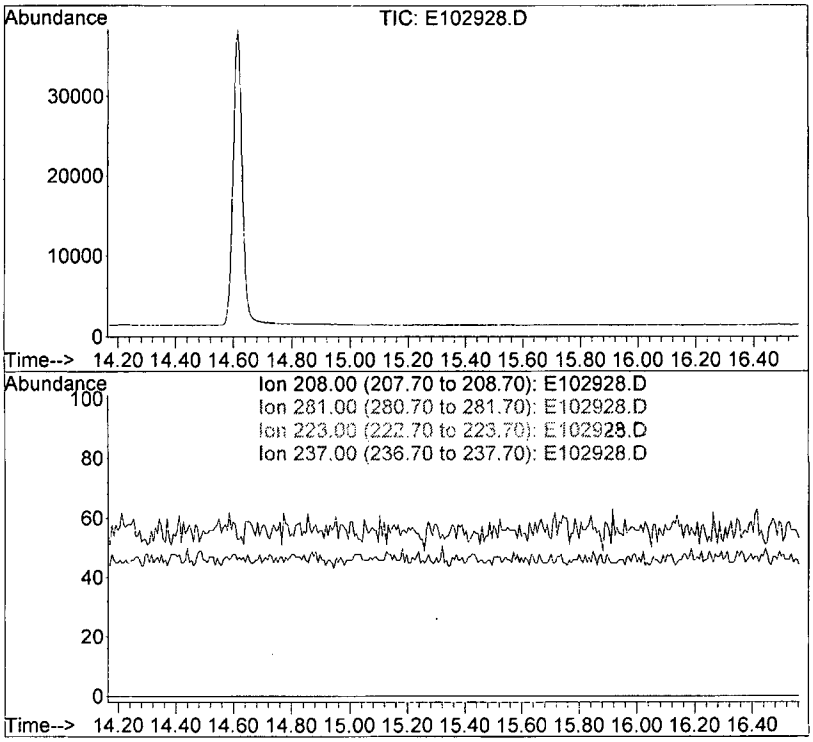


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102928.D
Acq: 30 Oct 2010 11:17 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102928.D
Acq: 30 Oct 2010 11:17 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102928.D
Acq On : 30 Oct 2010 11:17 pm
Operator : JAR
Sample : AE101015-09
Misc : BBNPP-CW11-C
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 08:40:00 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49576	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	24814	0.423	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	42.00%	
3) Toluene-d8	9.11	98	38055	0.606	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	61.00%	
4) Phenanthrene-d10	28.65	188	69871	0.675	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	67.00%	
5) Benzo(a)pyrene-d12	44.45	264	33924	0.550	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	55.00%	
6) Perylene-d12	44.80	264	39034	0.506	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	51.00%	

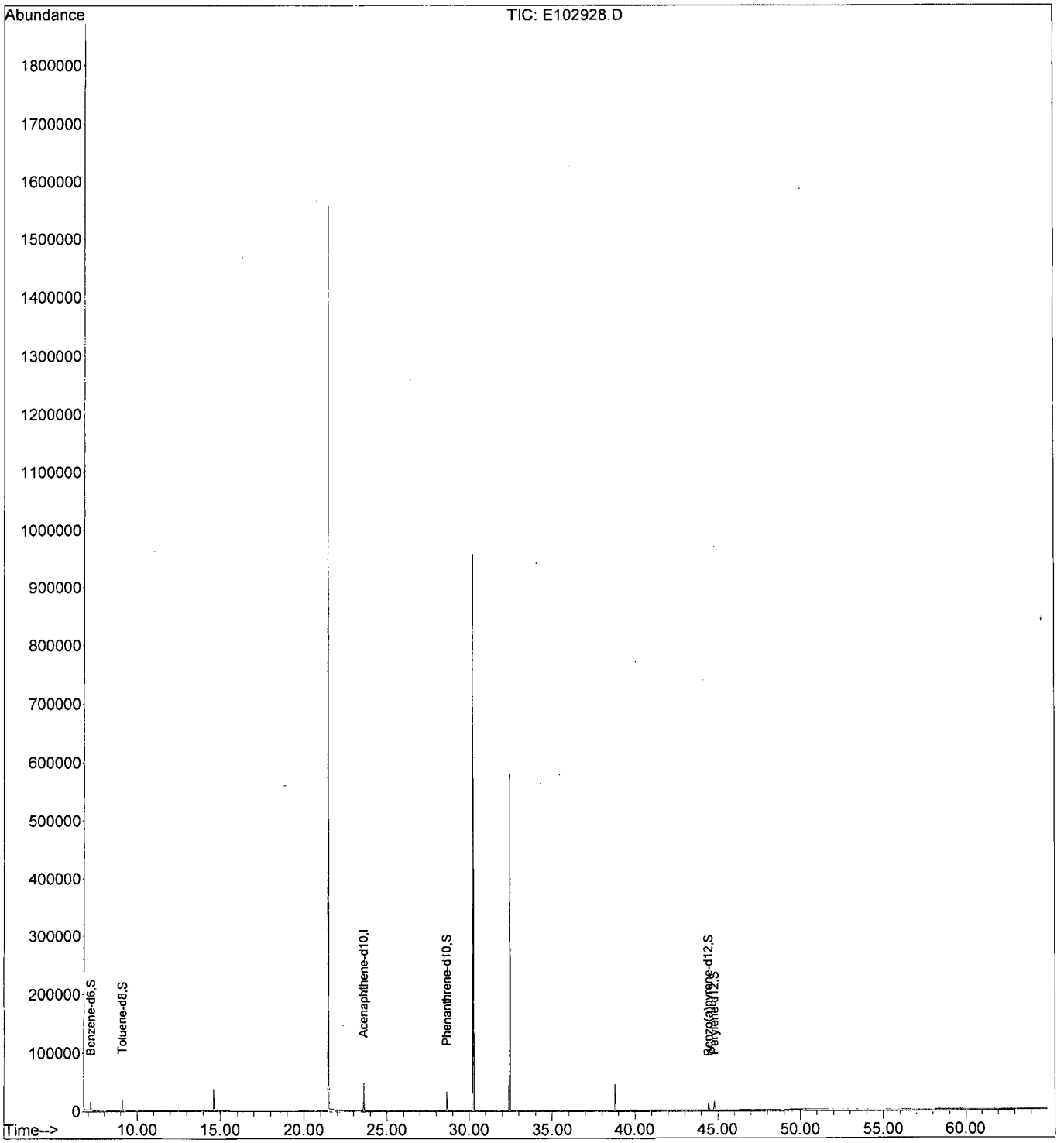
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102928.D
Acq On : 30 Oct 2010 11:17 pm
Operator : JAR
Sample : AE101015-09
Misc : BBNPP-CW11-C
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 08:40:00 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102929.D
Acq On : 31 Oct 2010 12:33 am
Operator : JAR
Sample : AE101015-10
Misc : BBNPP-CW14-C
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 08:02:30 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

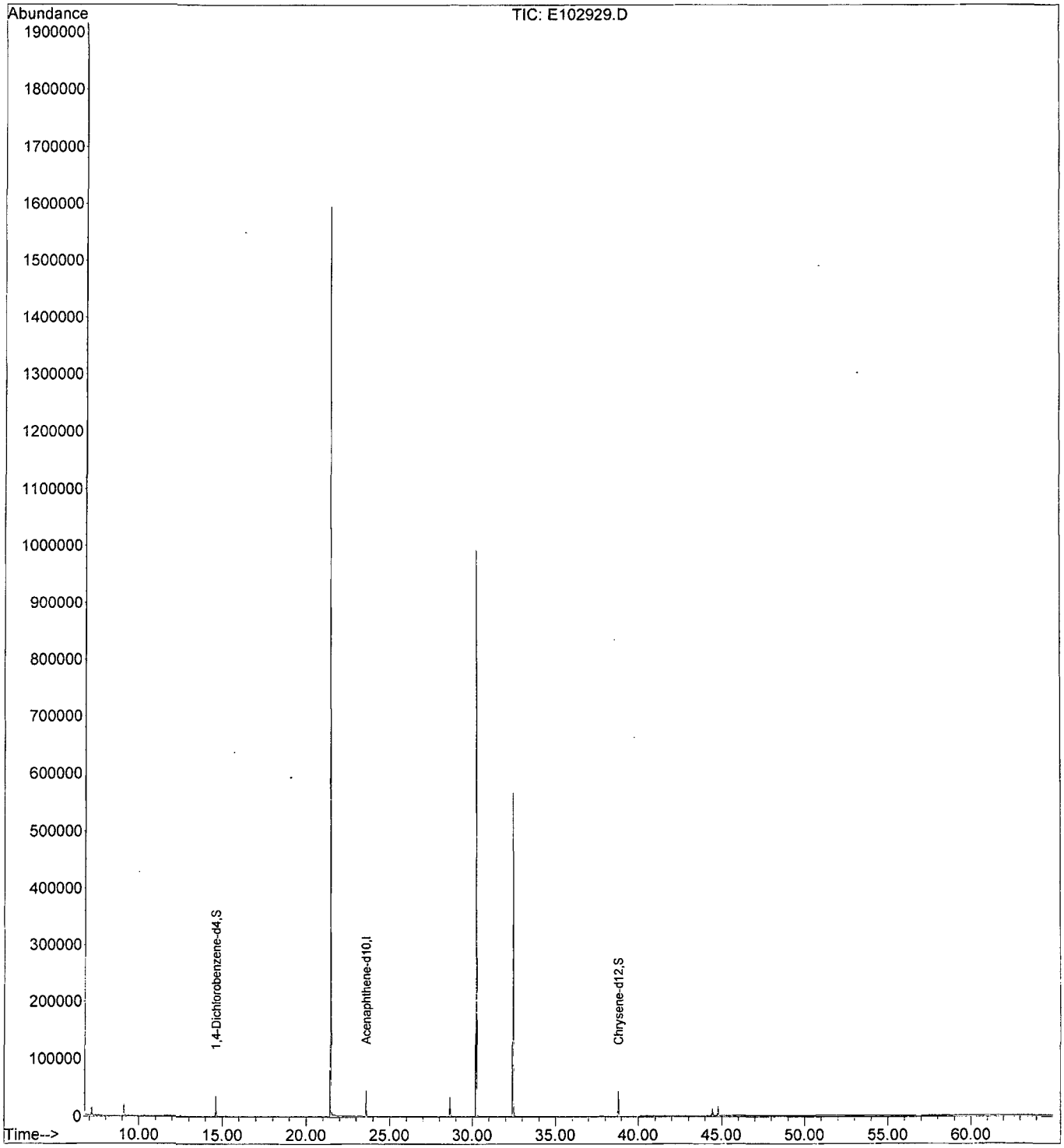
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	47339	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25539	0.794	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.80	240	74773	0.723	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

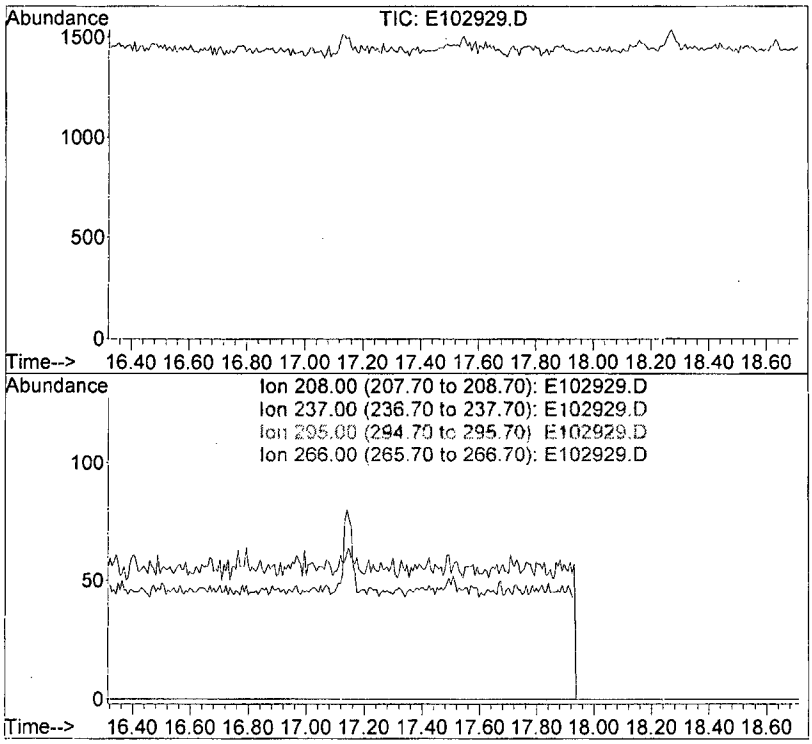
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102929.D
Acq On : 31 Oct 2010 12:33 am
Operator : JAR
Sample : AE101015-10
Misc : BBNPP-CW14-C
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 08:02:30 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



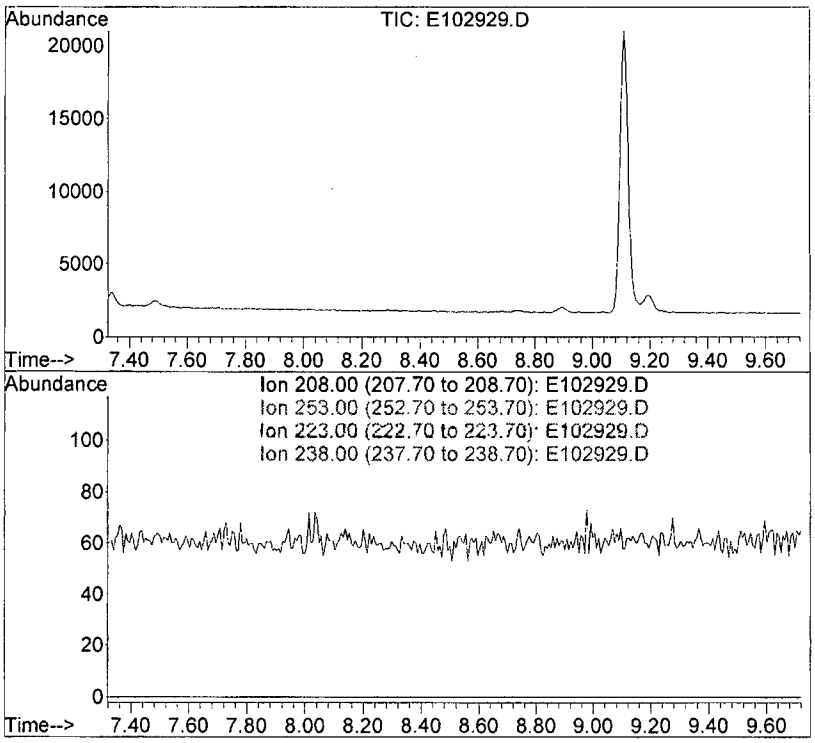


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102929.D
Acq: 31 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

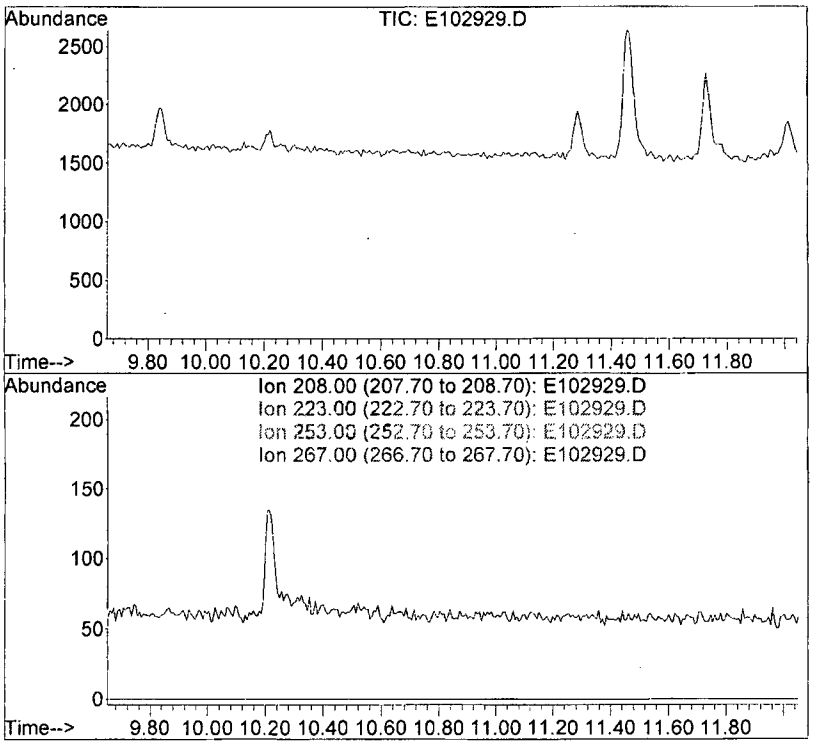


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102929.D
Acq: 31 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

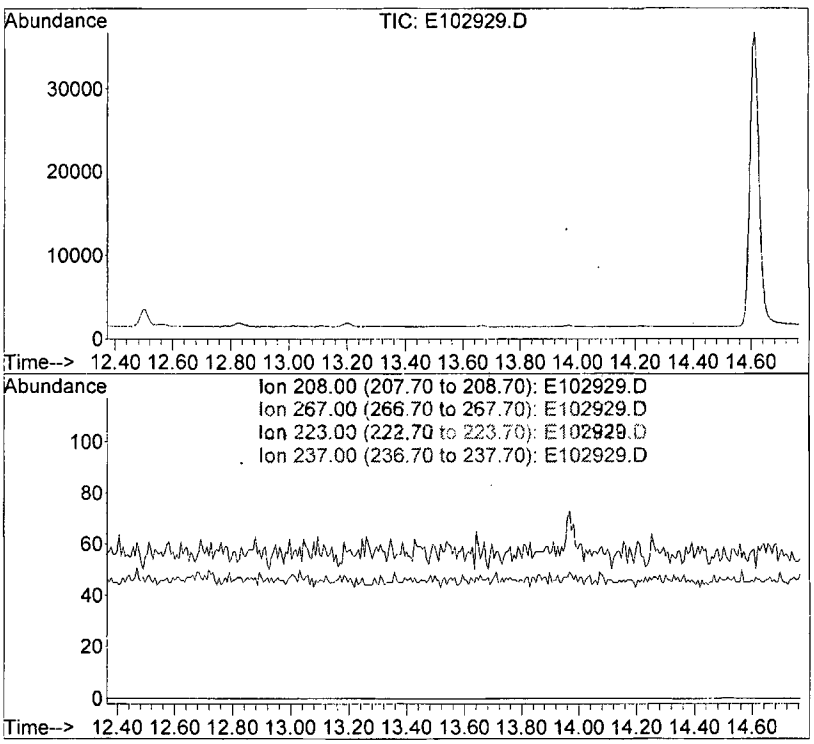


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102929.D
Acq: 31 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

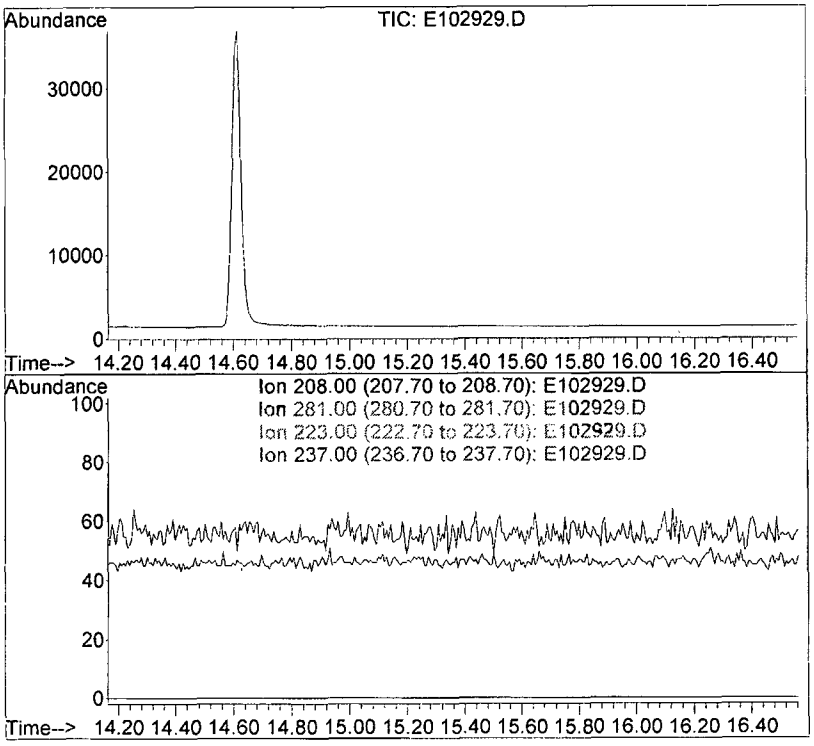


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102929.D
Acq: 31 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102929.D
Acq: 31 Oct 2010 12:33 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102929.D
Acq On : 31 Oct 2010 12:33 am
Operator : JAR
Sample : AE101015-10
Misc : BBNPP-CW14-C
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 08:40:03 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	47339	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	24696	0.441	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	44.00%	
3) Toluene-d8	9.11	98	38684	0.645	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	65.00%	
4) Phenanthrene-d10	28.65	188	71902	0.727	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	73.00%	
5) Benzo(a)pyrene-d12	44.45	264	32986	0.560	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	56.00%	
6) Perylene-d12	44.80	264	39121	0.531	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	53.00%	

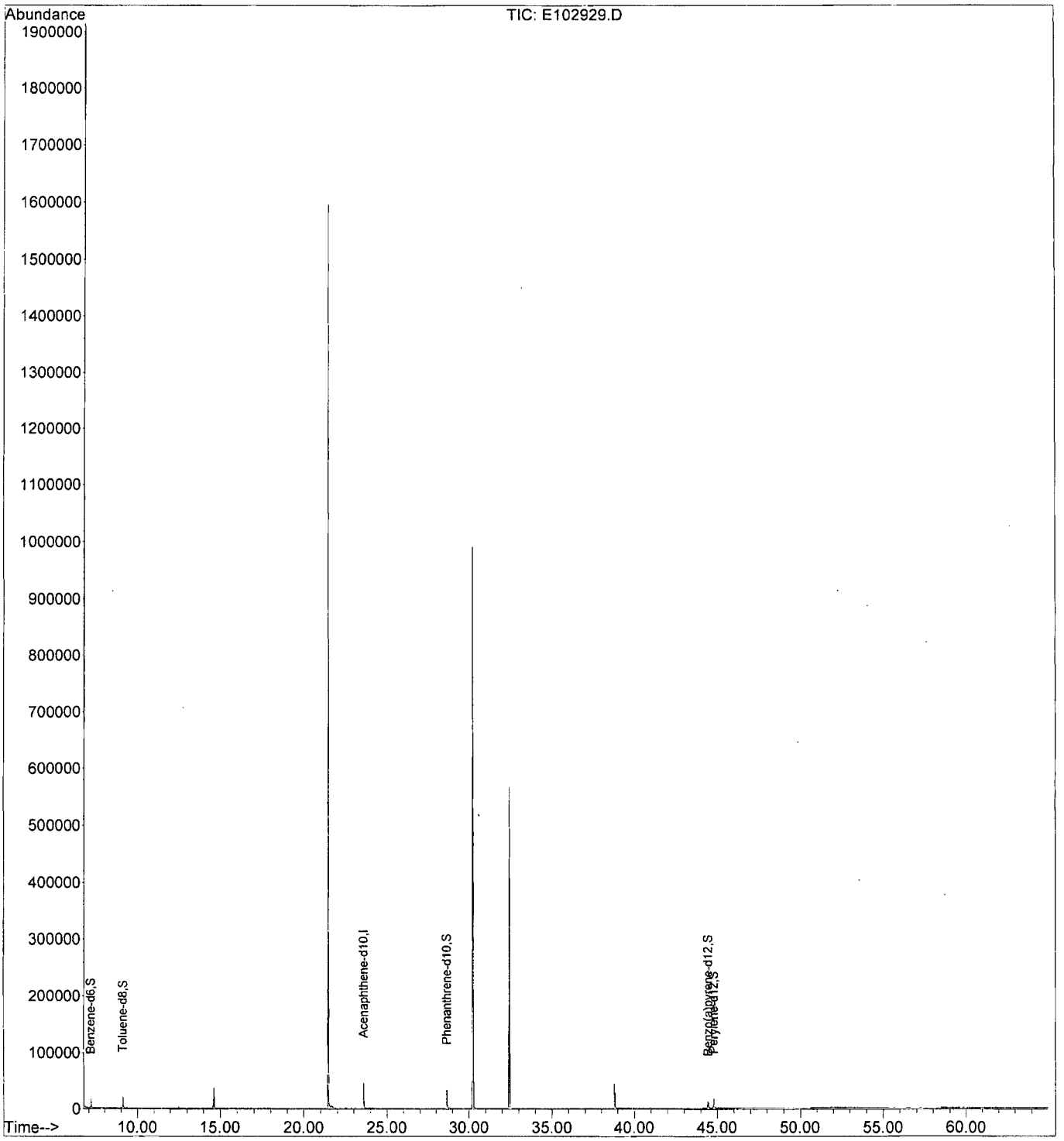
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102929.D
Acq On : 31 Oct 2010 12:33 am
Operator : JAR
Sample : AE101015-10
Misc : BBNPP-CW14-C
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 08:40:03 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102930.D
Acq On : 31 Oct 2010 1:49 am
Operator : JAR
Sample : AE101015-11
Misc : BBNPP-CW17-C
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 01 08:02:32 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

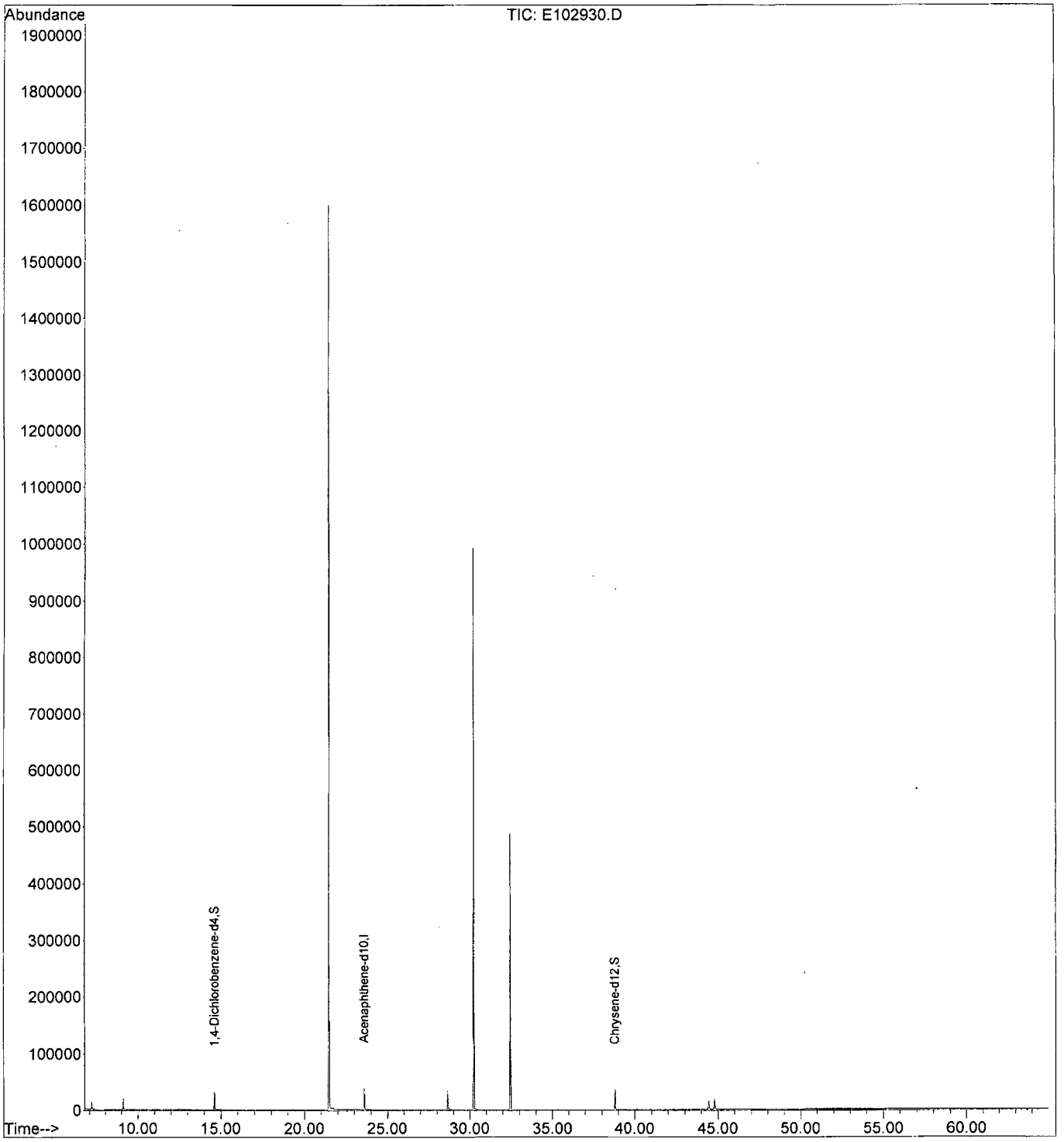
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41716	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22562	0.796	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.79	240	63155	0.693	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	62.73%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

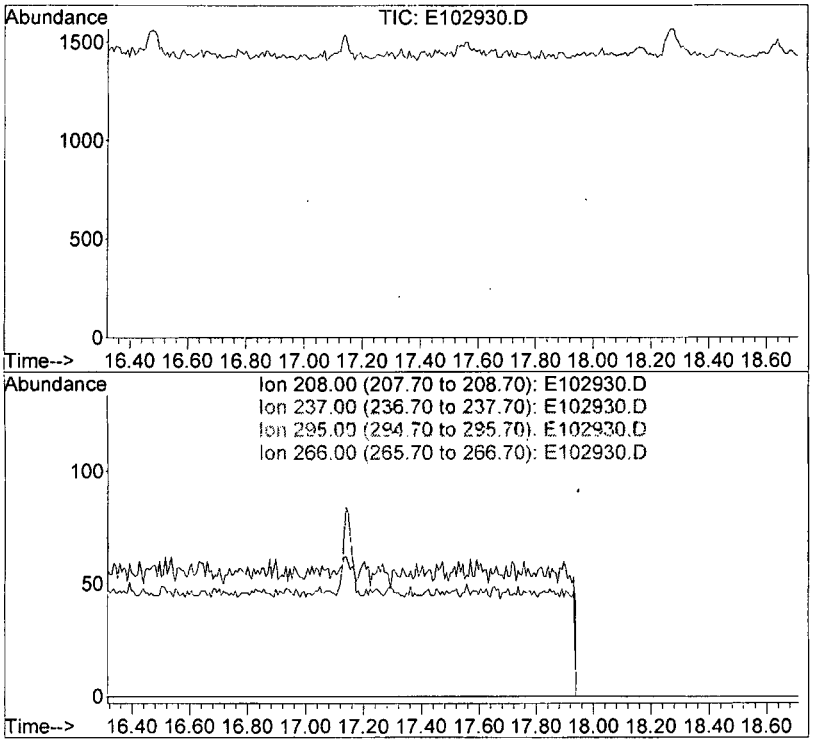
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102930.D
Acq On : 31 Oct 2010 1:49 am
Operator : JAR
Sample : AE101015-11
Misc : BBNPP-CW17-C
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 01 08:02:32 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



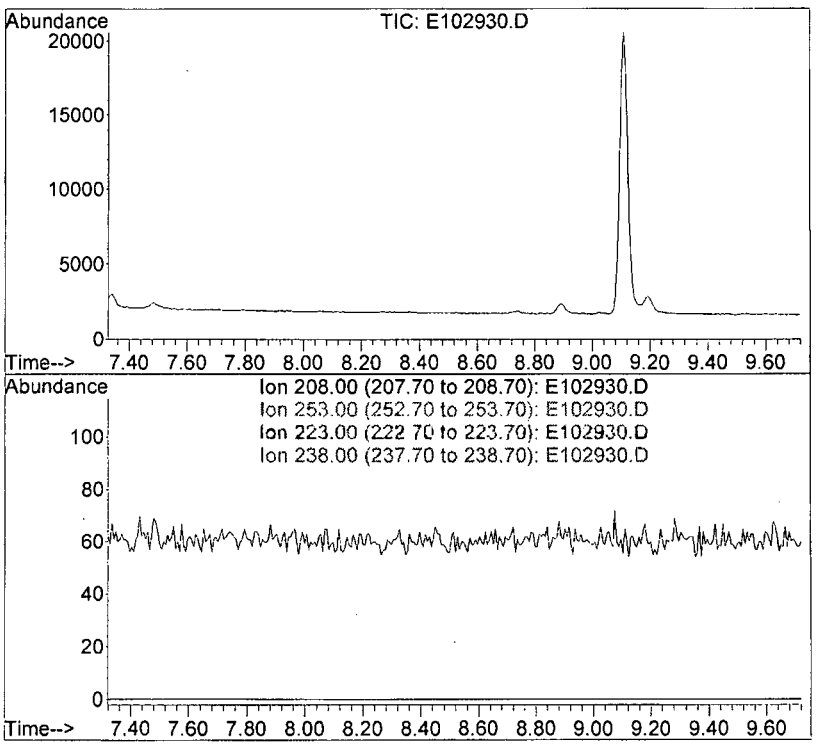


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102930.D
Acq: 31 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

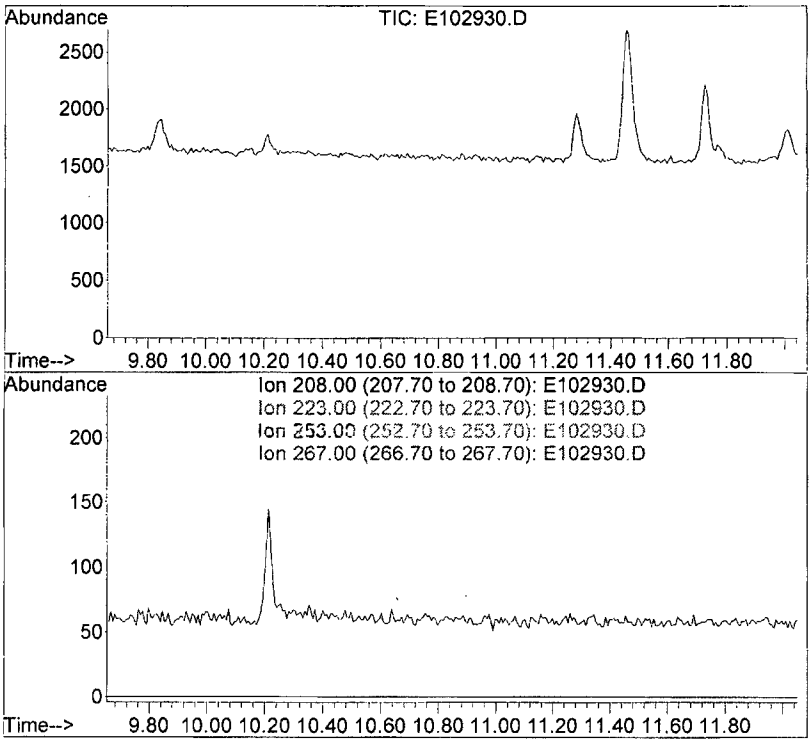


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102930.D
Acq: 31 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

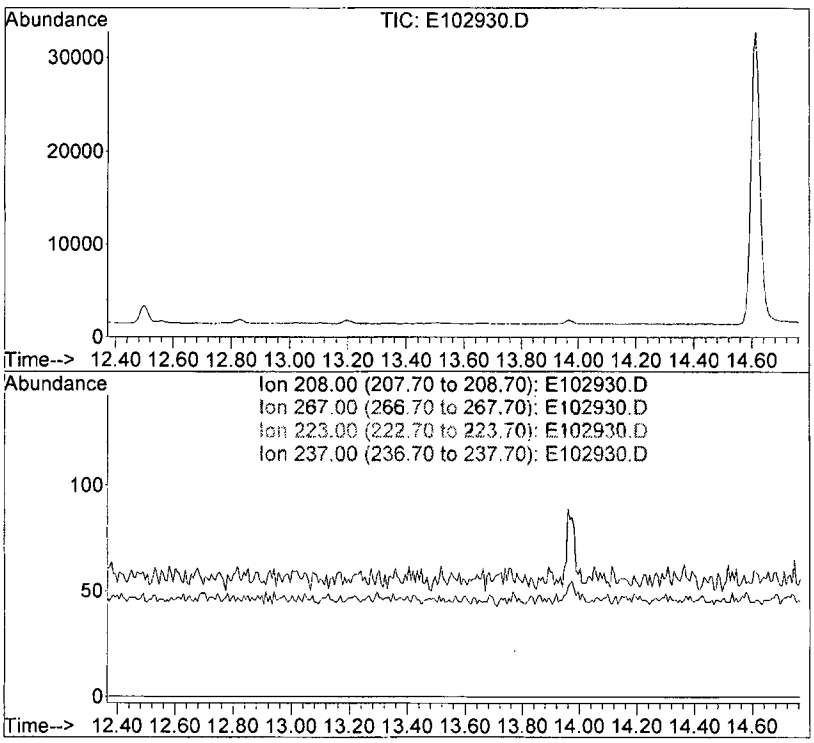


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102930.D
Acq: 31 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

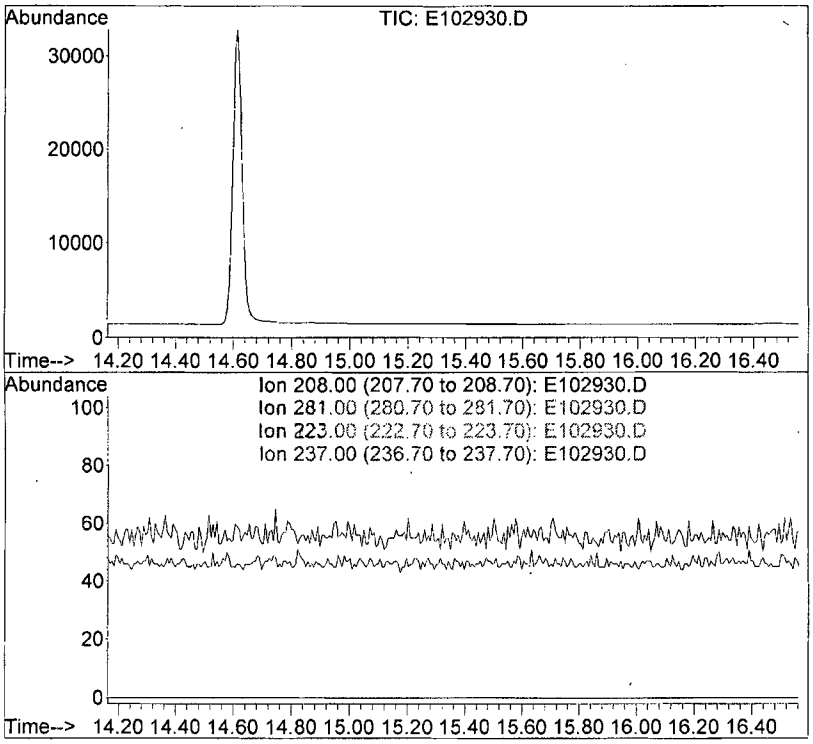


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102930.D
Acq: 31 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102930.D
Acq: 31 Oct 2010 1:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102930.D
Acq On : 31 Oct 2010 1:49 am
Operator : JAR
Sample : AE101015-11
Misc : BBNPP-CW17-C
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 01 08:40:05 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41739	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	22753	0.460	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	46.00%	
3) Toluene-d8	9.11	98	37997	0.719	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	72.00%	
4) Phenanthrene-d10	28.65	188	73172	0.839	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
5) Benzo(a)pyrene-d12	44.45	264	38368	0.739	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	74.00%	
6) Perylene-d12	44.79	264	44181	0.680	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	68.00%	

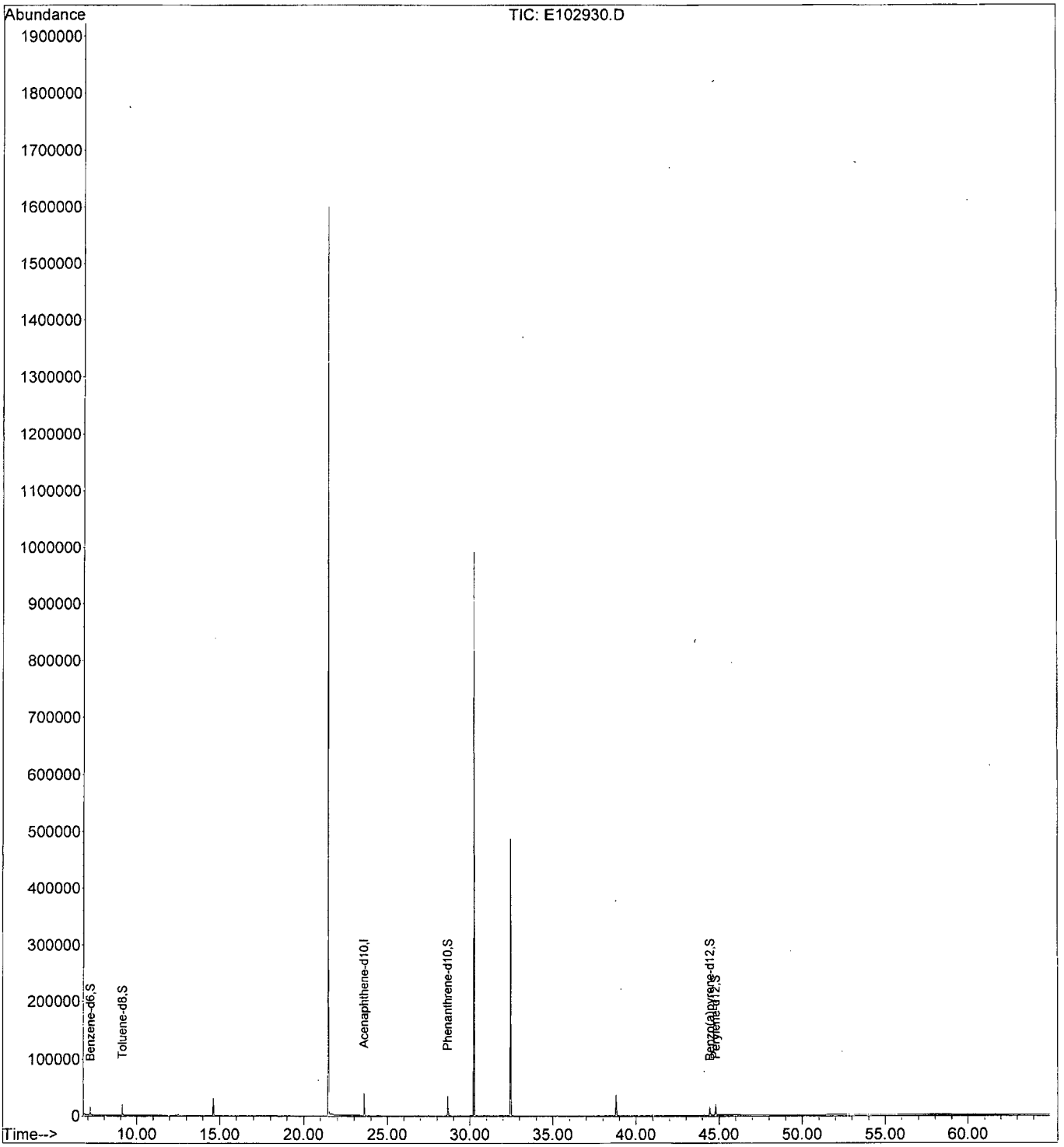
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102930.D
Acq On : 31 Oct 2010 1:49 am
Operator : JAR
Sample : AE101015-11
Misc : BBNPP-CW17-C
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 01 08:40:05 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102931.D
Acq On : 31 Oct 2010 3:05 am
Operator : JAR
Sample : AE101015-12
Misc : BBNPP-CW20-C
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Nov 01 08:02:35 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

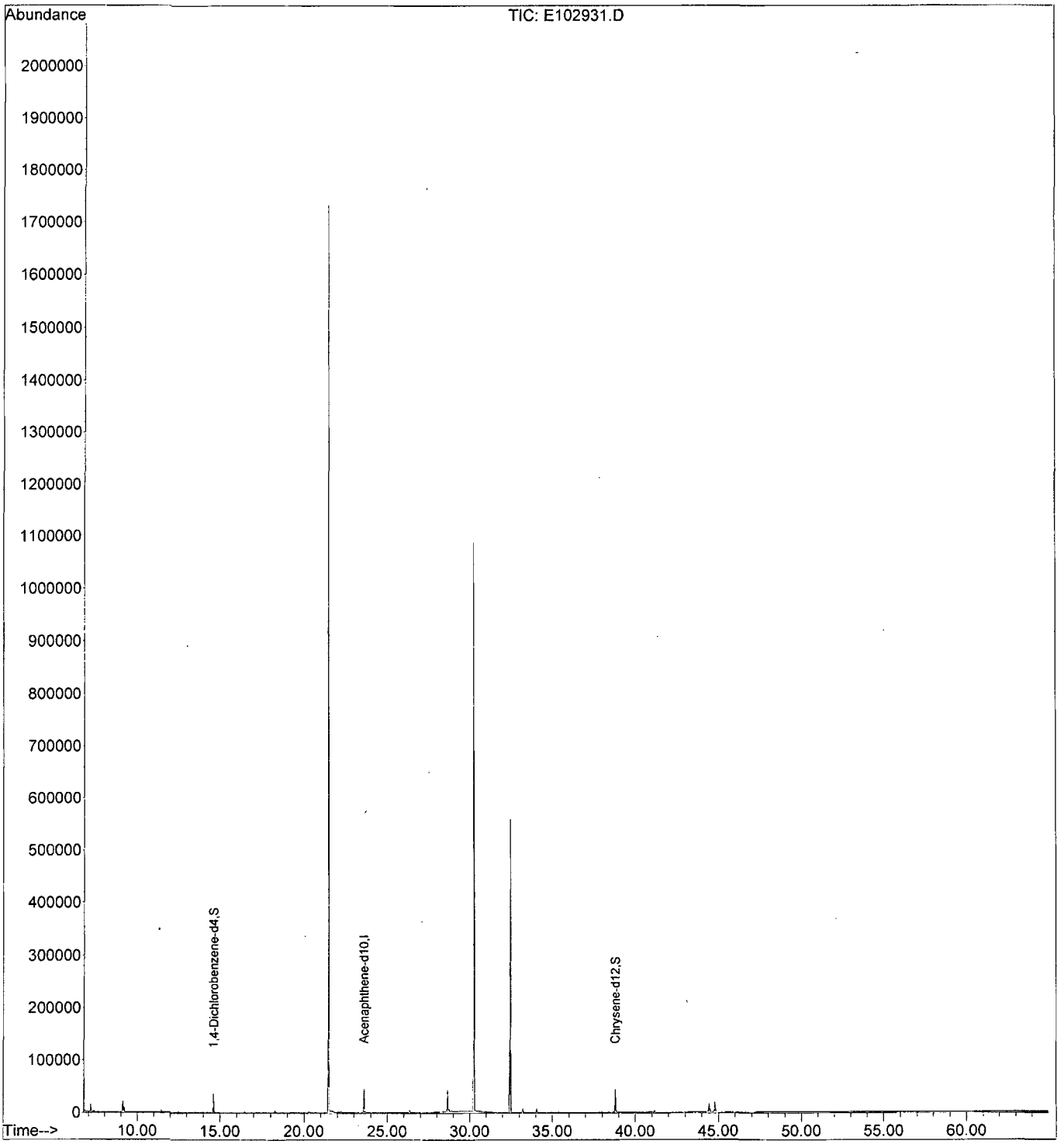
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	47354	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	24902	0.774	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	70.00%	
3) Chrysene-d12	38.79	240	75414	0.729	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

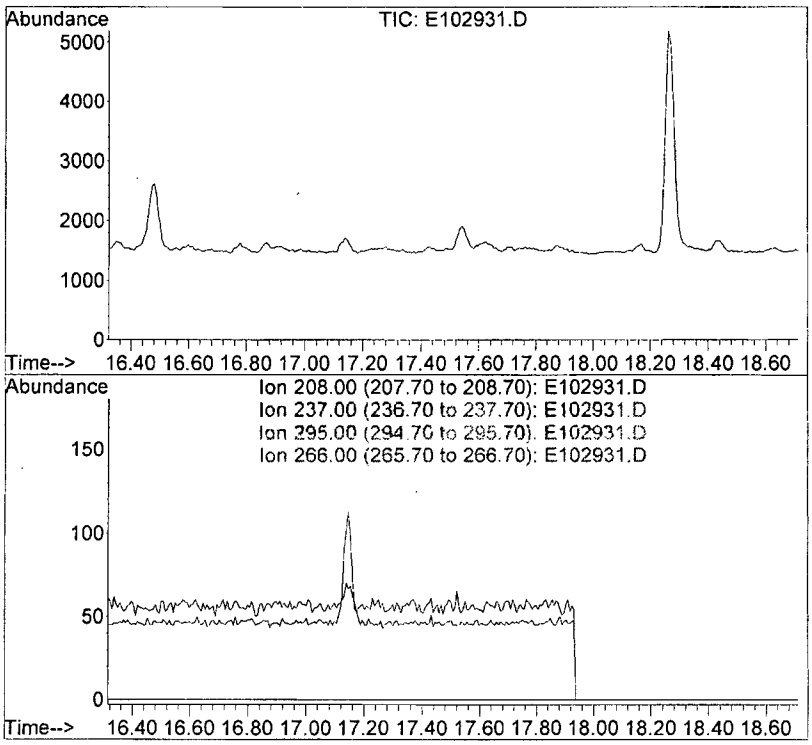
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102931.D
Acq On : 31 Oct 2010 3:05 am
Operator : JAR
Sample : AE101015-12
Misc : BBNPP-CW20-C
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Nov 01 08:02:35 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



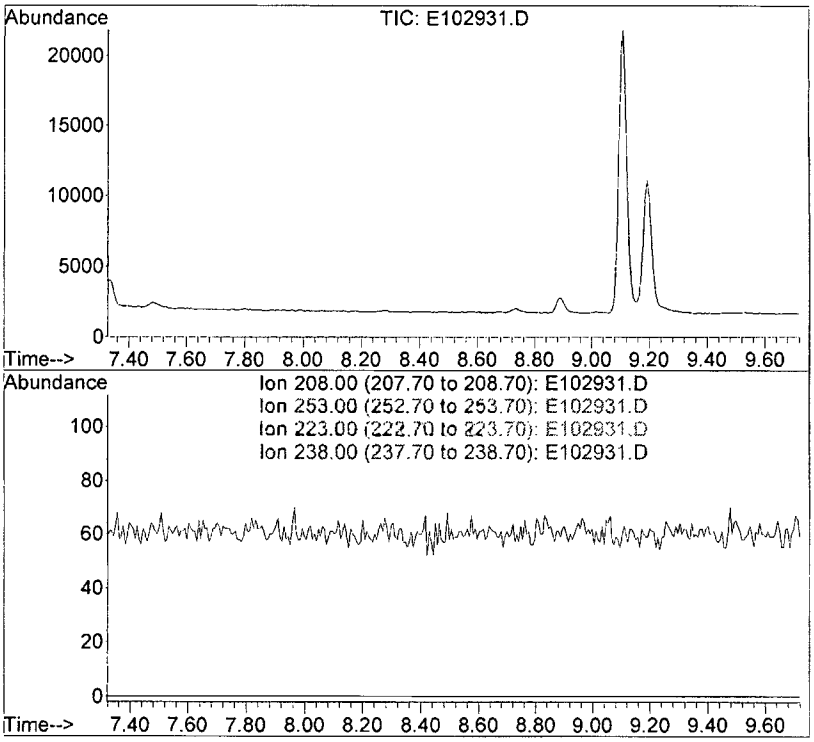


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102931.D
Acq: 31 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

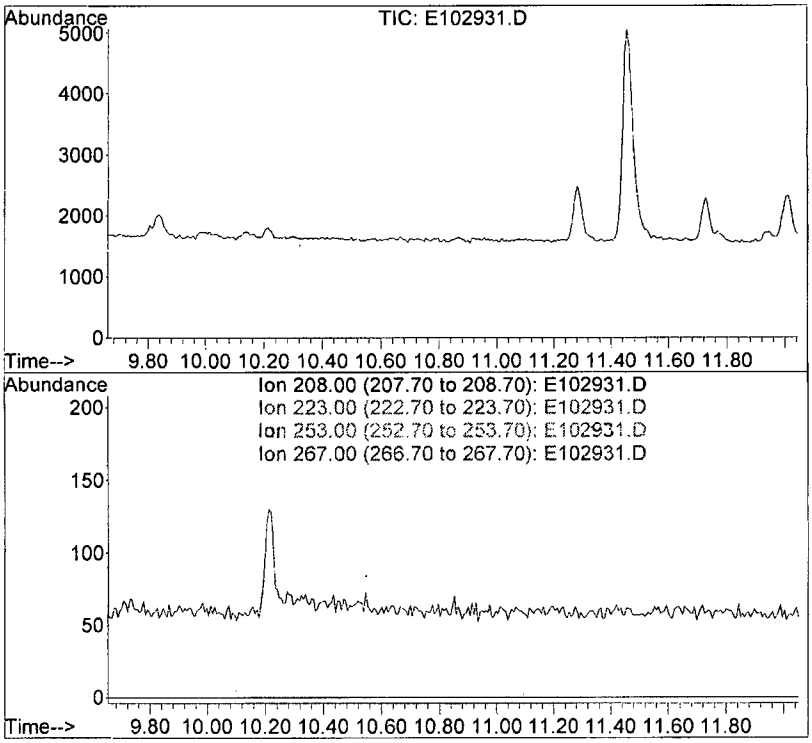


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102931.D
Acq: 31 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

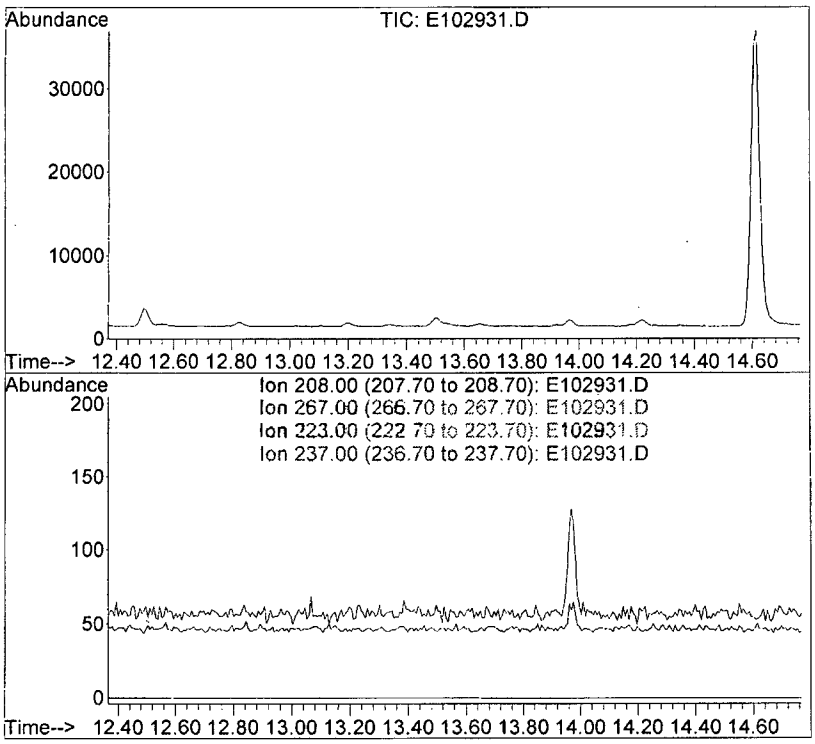


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102931.D
Acq: 31 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

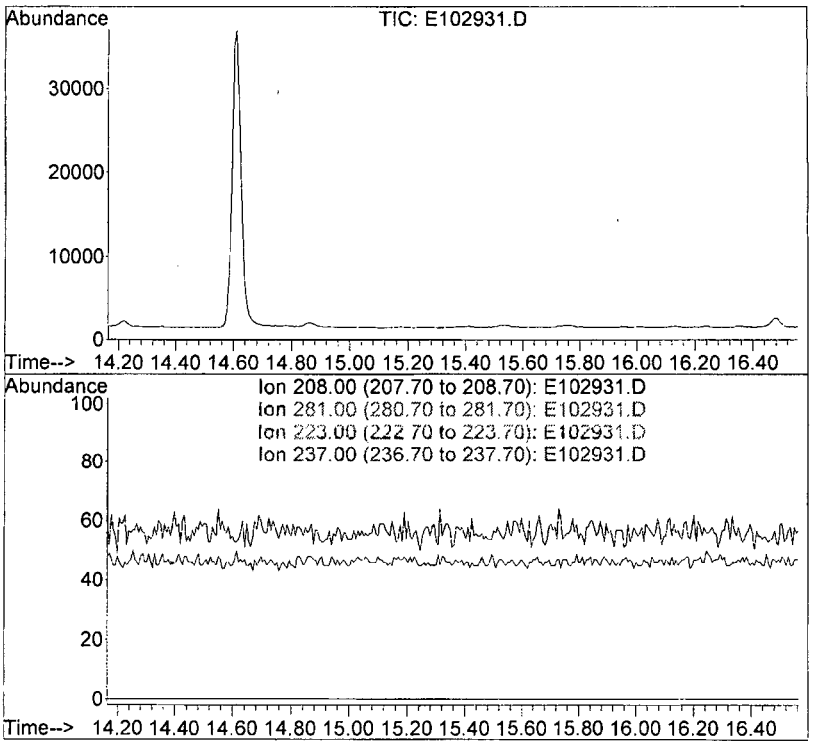


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102931.D
Acq: 31 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102931.D
Acq: 31 Oct 2010 3:05 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102931.D
Acq On : 31 Oct 2010 3:05 am
Operator : JAR
Sample : AE101015-12
Misc : BBNPP-CW20-C
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Nov 01 08:40:07 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	47354	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	23531	0.420	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	42.00%	
3) Toluene-d8	9.11	98	40436	0.674	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	67.00%	
4) Phenanthrene-d10	28.65	188	83111	0.840	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
5) Benzo(a)pyrene-d12	44.45	264	39291	0.667	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	67.00%	
6) Perylene-d12	44.79	264	44976	0.610	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	61.00%	

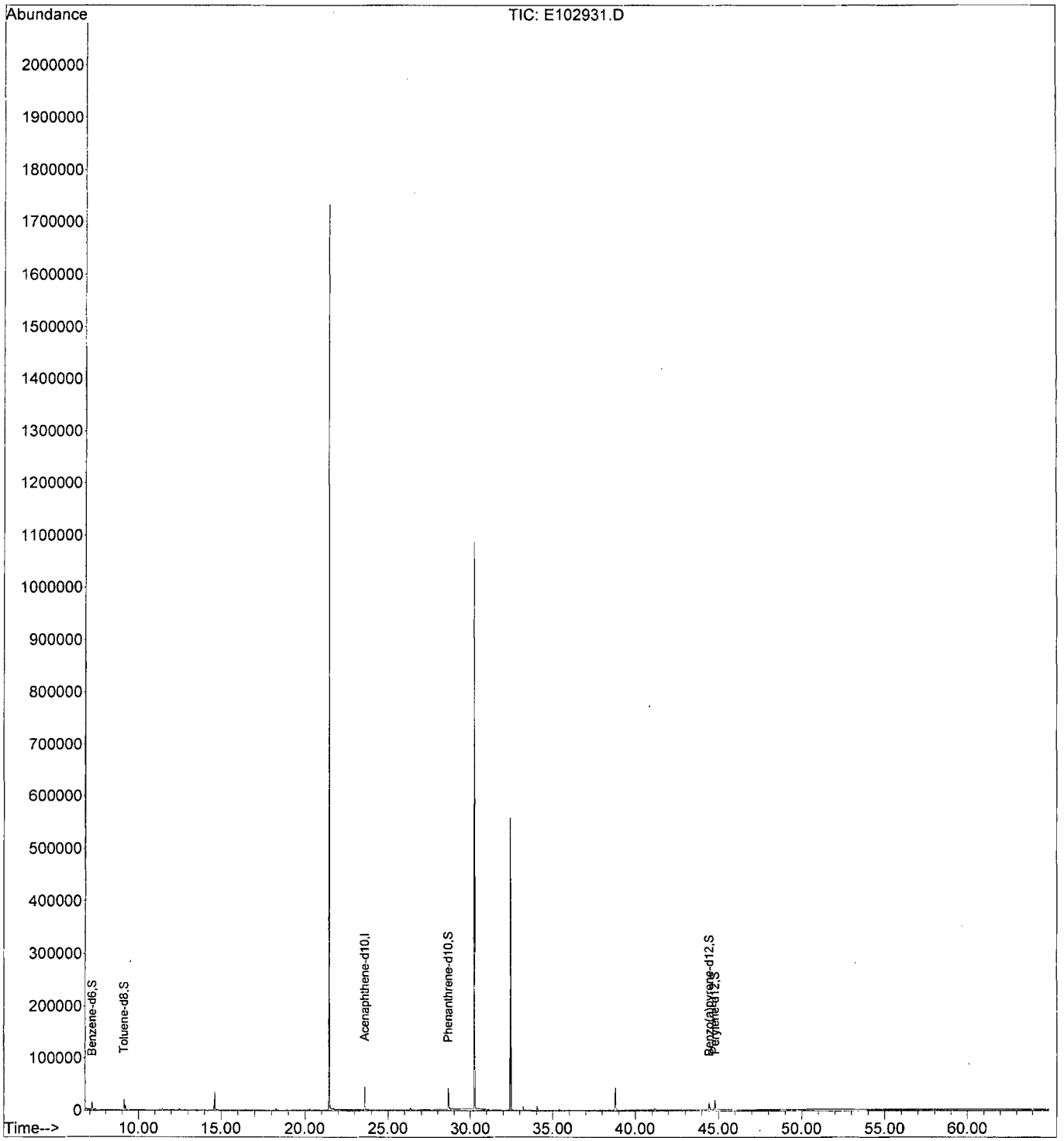
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102931.D
Acq On : 31 Oct 2010 3:05 am
Operator : JAR
Sample : AE101015-12
Misc : BBNPP-CW20-C
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Nov 01 08:40:07 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102932.D
Acq On : 31 Oct 2010 4:21 am
Operator : JAR
Sample : AE101015-13
Misc : BBNPP-CW23-C
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 01 08:02:37 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

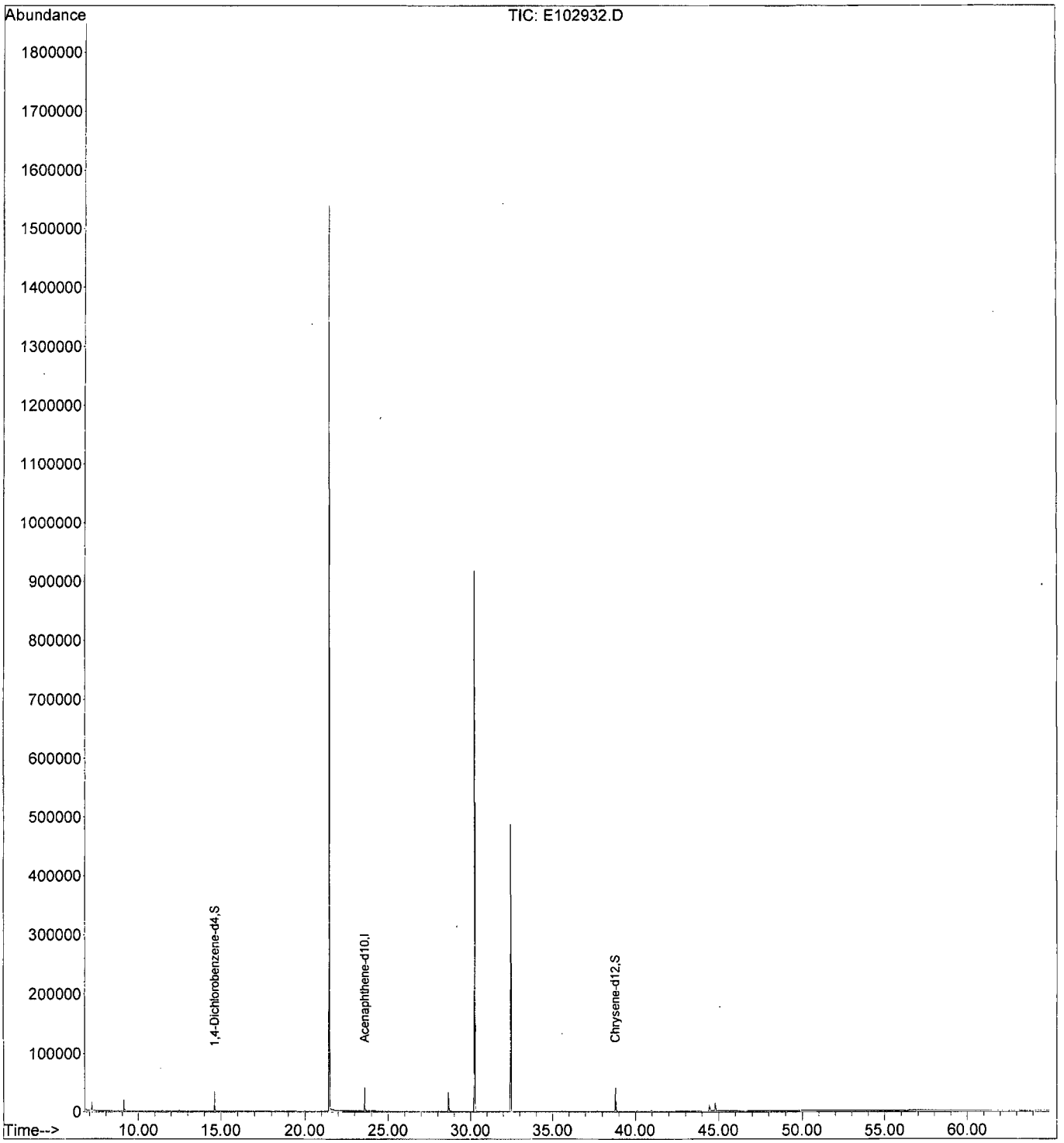
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	43816	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	24041	0.807	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.79	240	67829	0.709	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	64.55%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

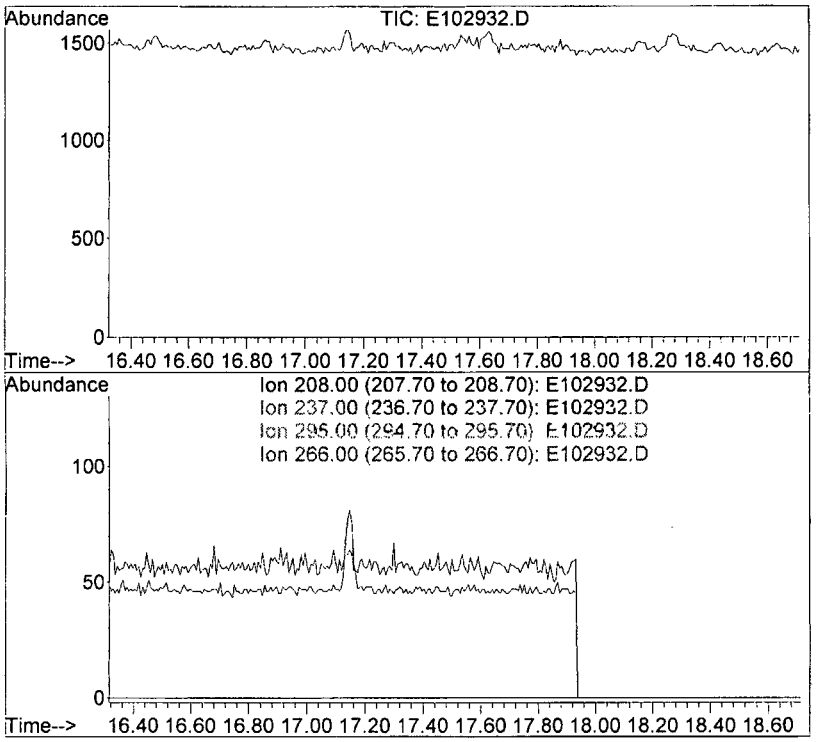
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102932.D
Acq On : 31 Oct 2010 4:21 am
Operator : JAR
Sample : AE101015-13
Misc : BBNPP-CW23-C
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 01 08:02:37 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



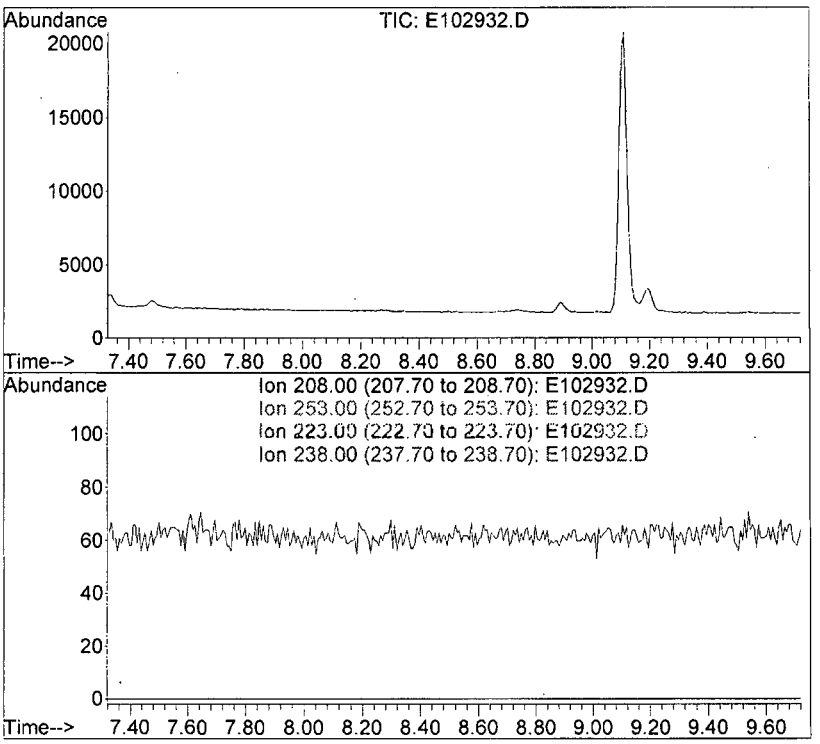


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102932.D
Acq: 31 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

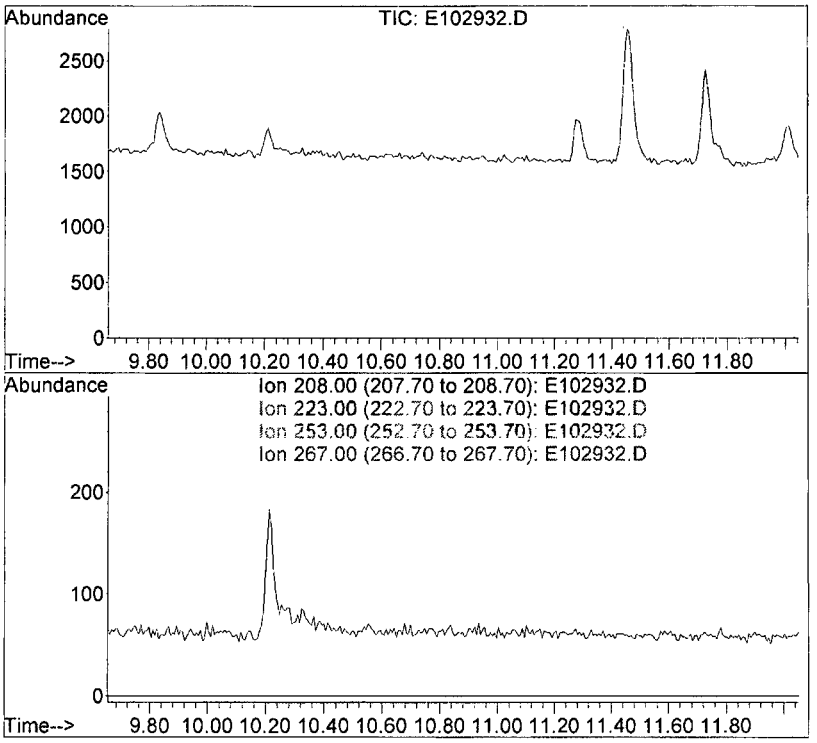


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102932.D
Acq: 31 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

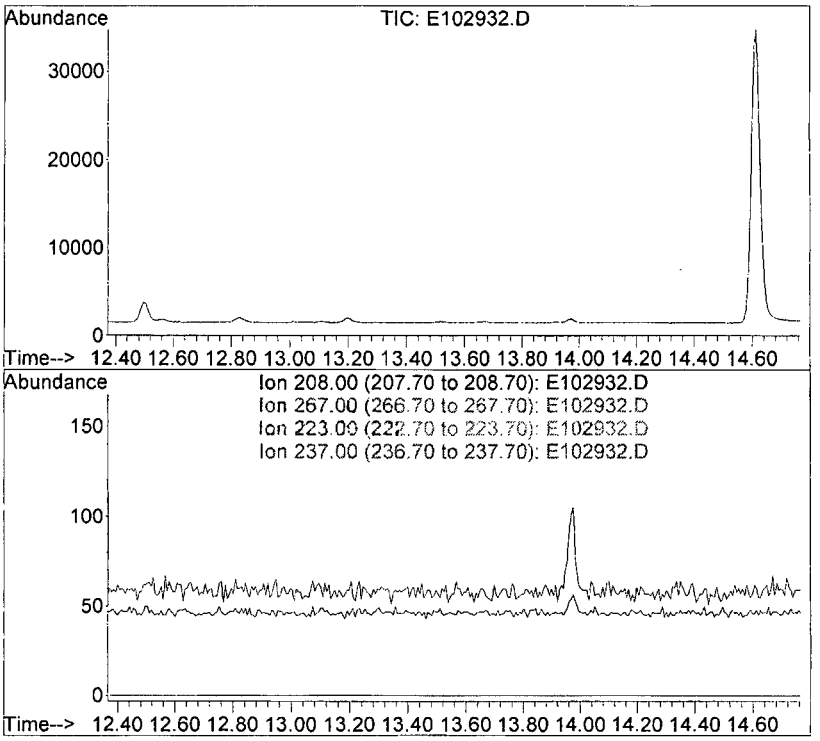


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102932.D
Acq: 31 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

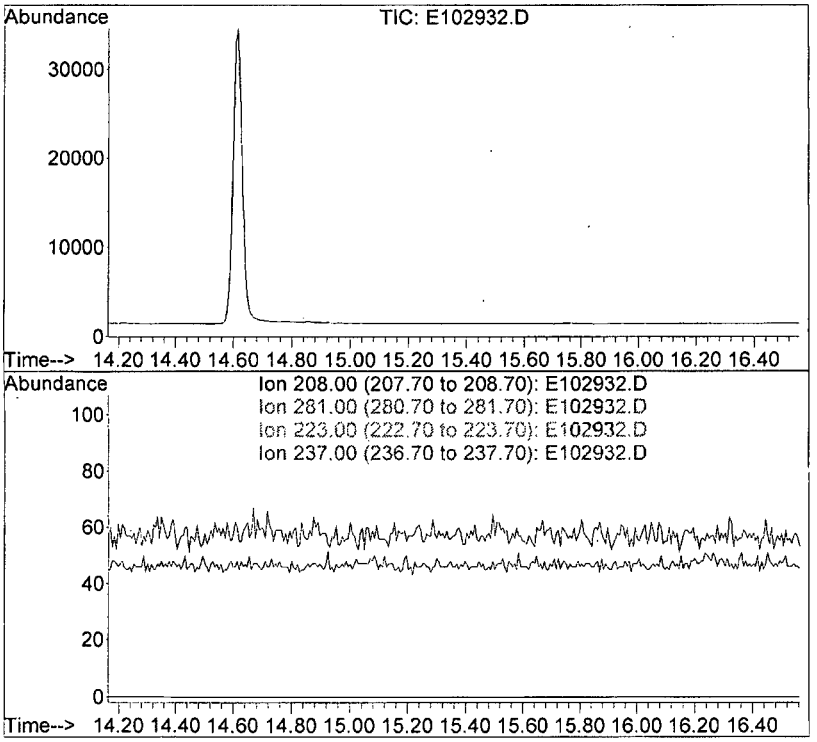


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102932.D
Acq: 31 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102932.D
Acq: 31 Oct 2010 4:21 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102932.D
Acq On : 31 Oct 2010 4:21 am
Operator : JAR
Sample : AE101015-13
Misc : BBNPP-CW23-C
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 01 08:40:09 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	43816	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	25366	0.489	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	49.00%	
3) Toluene-d8	9.11	98	38523	0.694	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	69.00%	
4) Phenanthrene-d10	28.65	188	67821	0.741	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	74.00%	
5) Benzo(a)pyrene-d12	44.44	264	26577	0.488	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	49.00%	
6) Perylene-d12	44.79	264	32255	0.473	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	47.00%	

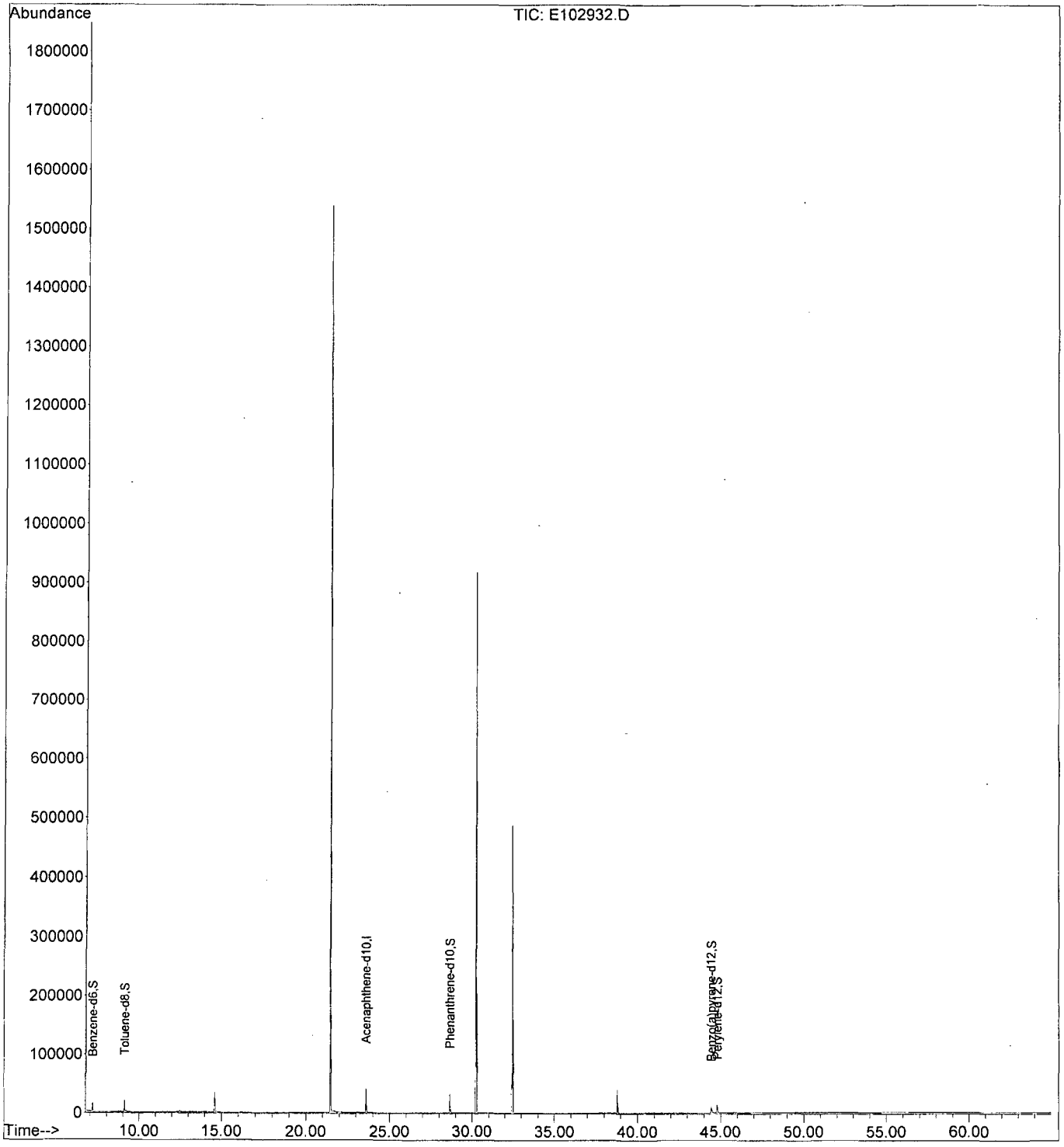
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102932.D
Acq On : 31 Oct 2010 4:21 am
Operator : JAR
Sample : AE101015-13
Misc : BBNPP-CW23-C
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 01 08:40:09 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102936.D
Acq On : 31 Oct 2010 9:25 am
Operator : JAR
Sample : AE101015-14
Misc : BBNPP-CW20-C FD
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 01 08:02:41 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

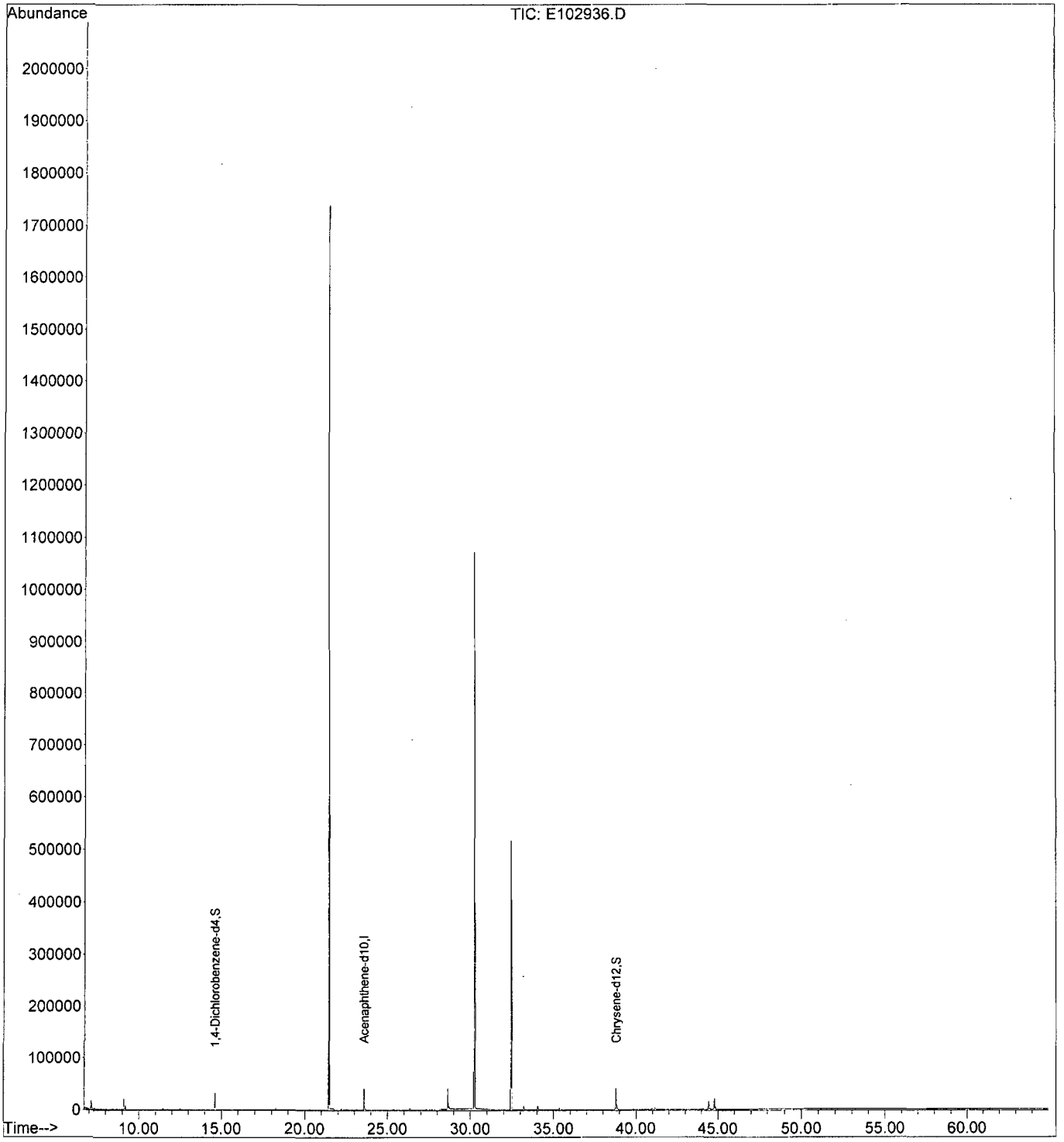
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	43513	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	23242	0.786	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.79	240	68237	0.718	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

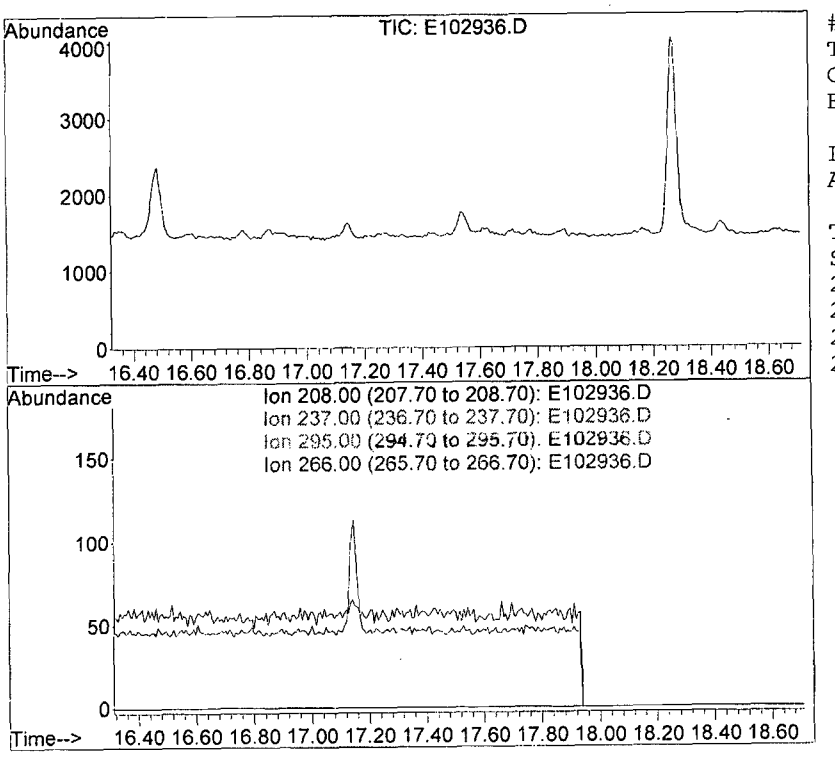
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102936.D
Acq On : 31 Oct 2010 9:25 am
Operator : JAR
Sample : AE101015-14
Misc : BBNPP-CW20-C FD
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 01 08:02:41 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



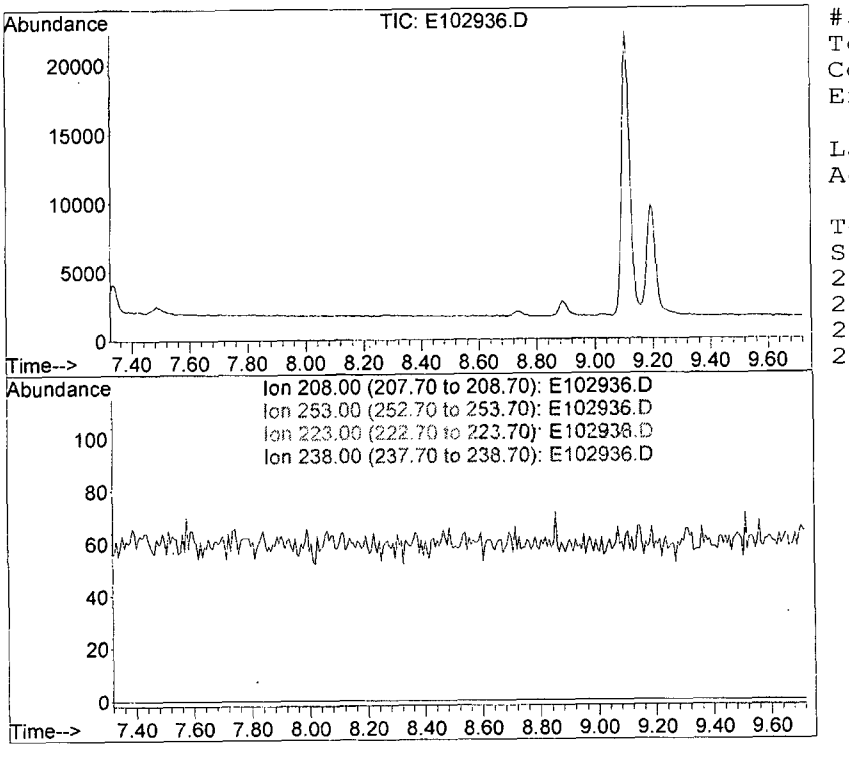


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102936.D
Acq: 31 Oct 2010 9:25 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

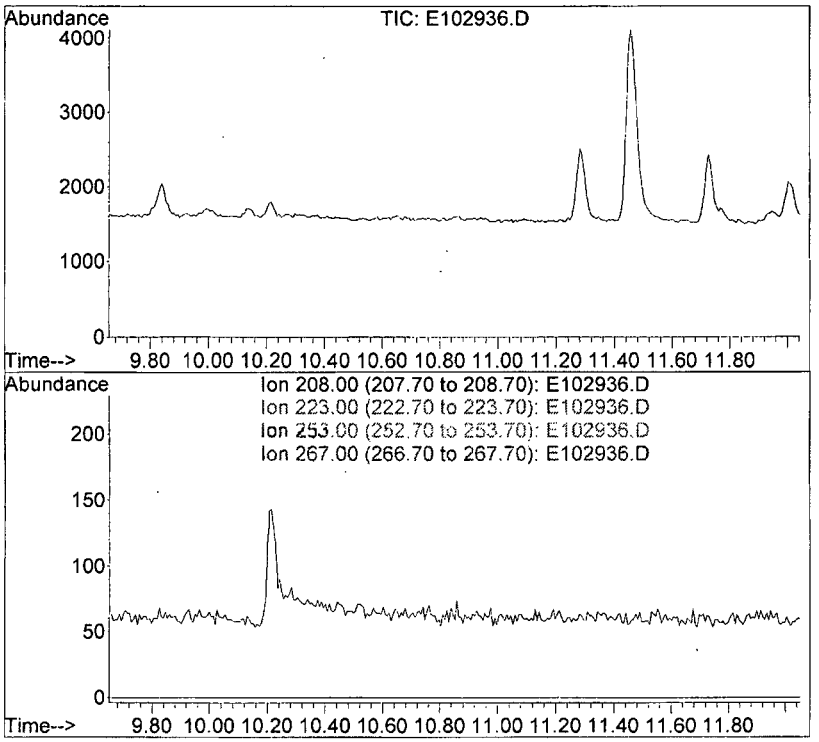


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102936.D
Acq: 31 Oct 2010 9:25 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

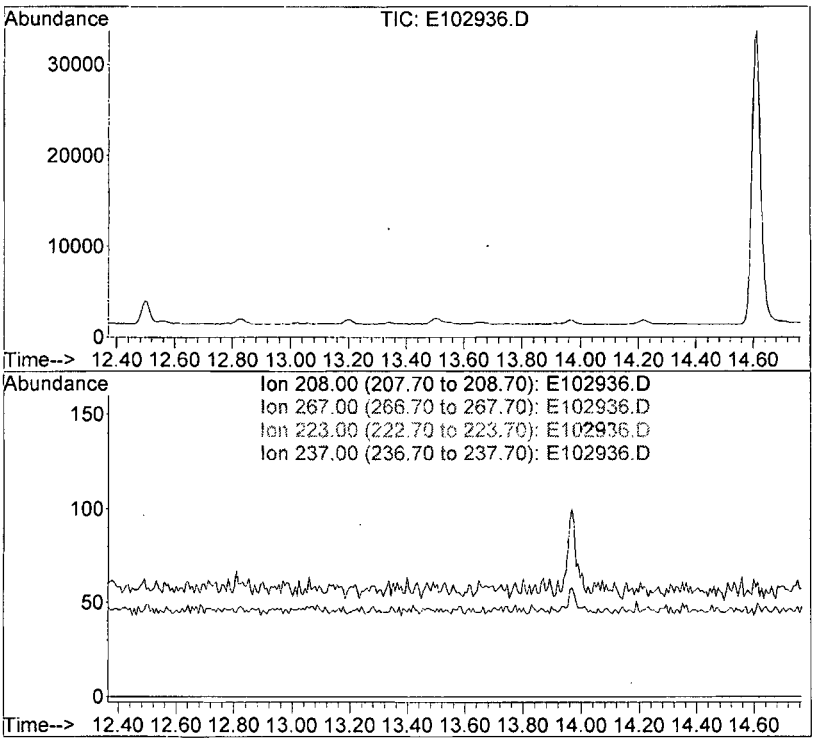


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102936.D
Acq: 31 Oct 2010 9:25 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

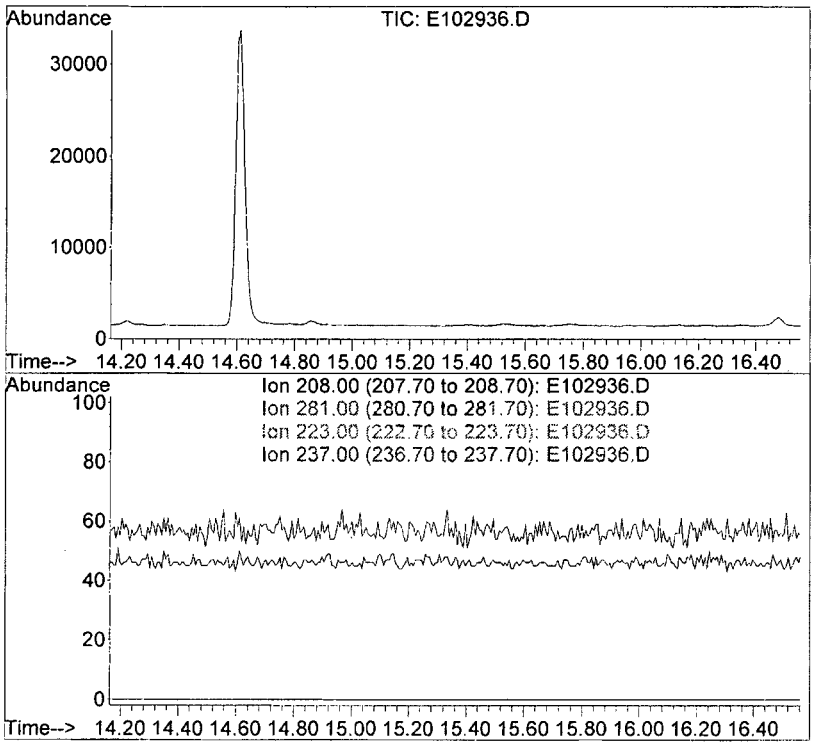


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102936.D
Acq: 31 Oct 2010 9:25 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102936.D
Acq: 31 Oct 2010 9:25 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102936.D
Acq On : 31 Oct 2010 9:25 am
Operator : JAR
Sample : AE101015-14
Misc : BBNPP-CW20-C FD
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 01 08:40:14 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	43513	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	26180	0.508	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	51.00%	
3) Toluene-d8	9.11	98	40678	0.738	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	74.00%	
4) Phenanthrene-d10	28.65	188	82076	0.903	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	90.00%	
5) Benzo(a)pyrene-d12	44.44	264	42816	0.791	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	79.00%	
6) Perylene-d12	44.79	264	47939	0.708	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	71.00%	

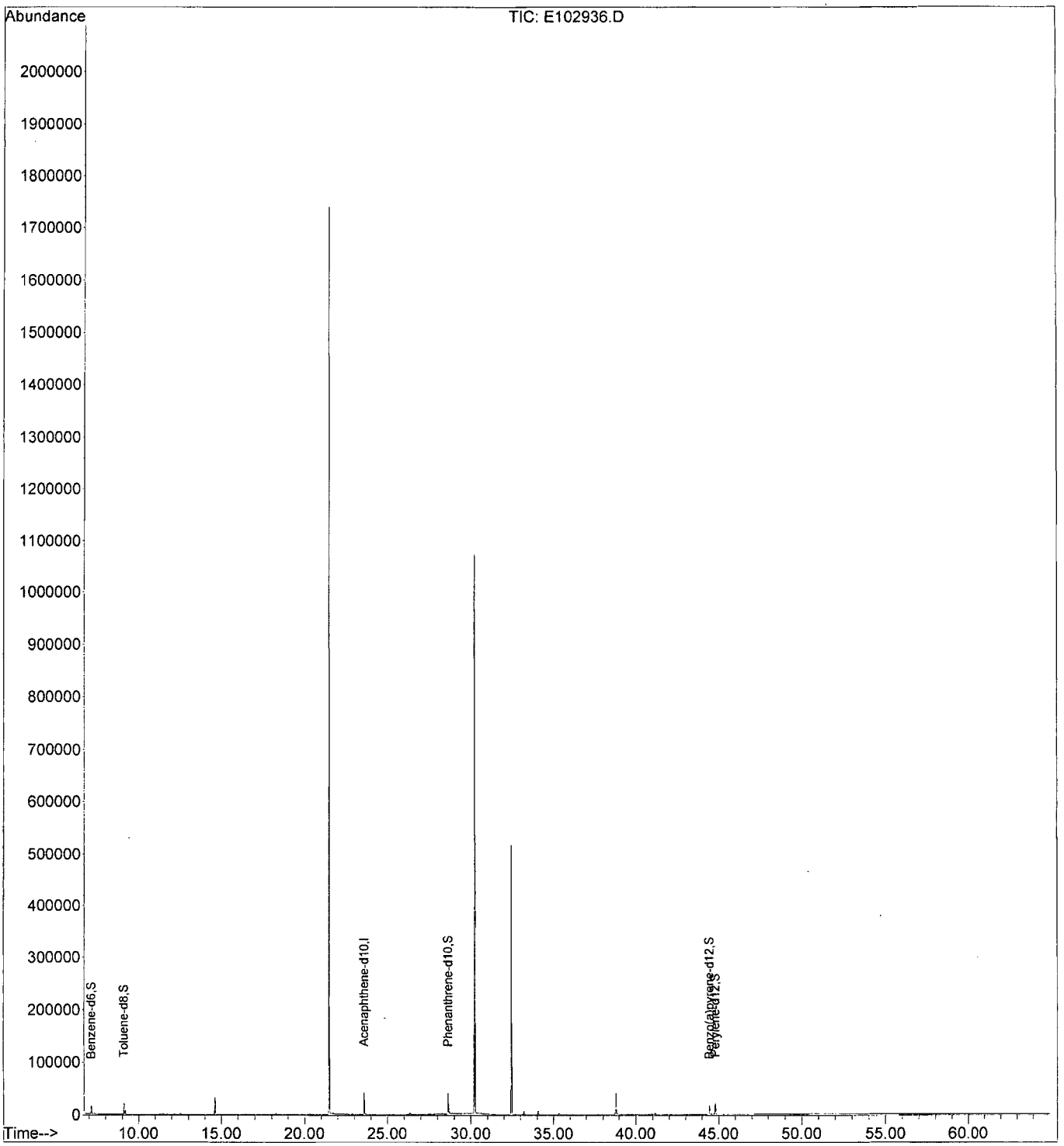
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102936.D
Acq On : 31 Oct 2010 9:25 am
Operator : JAR
Sample : AE101015-14
Misc : BBNPP-CW20-C FD
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 01 08:40:14 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102937.D
Acq On : 31 Oct 2010 10:41 am
Operator : JAR
Sample : AE101015-15
Misc : BBNPP-D2
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Nov 01 08:02:43 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

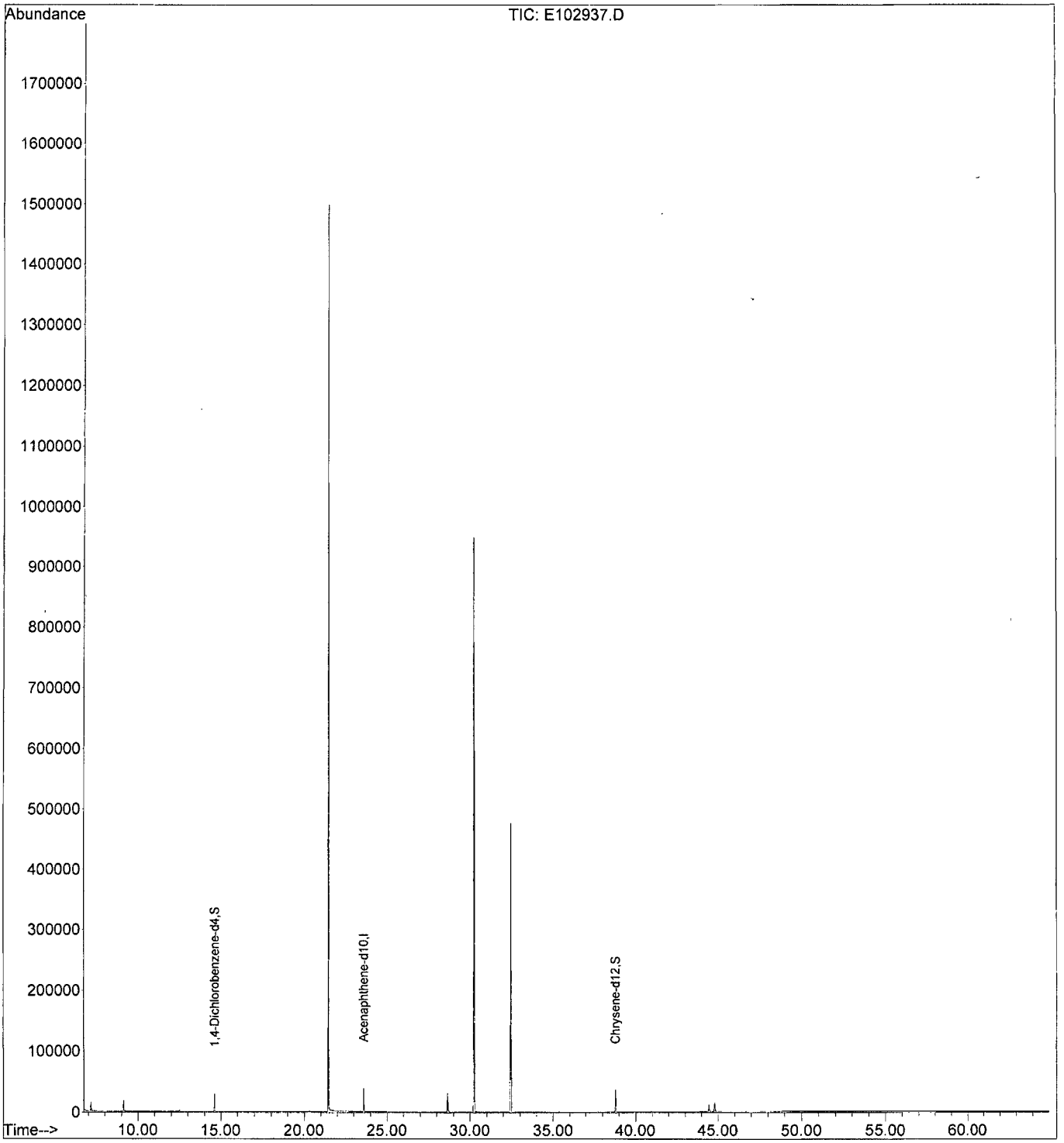
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	40320	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22105	0.806	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.79	240	62201	0.706	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	64.55%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

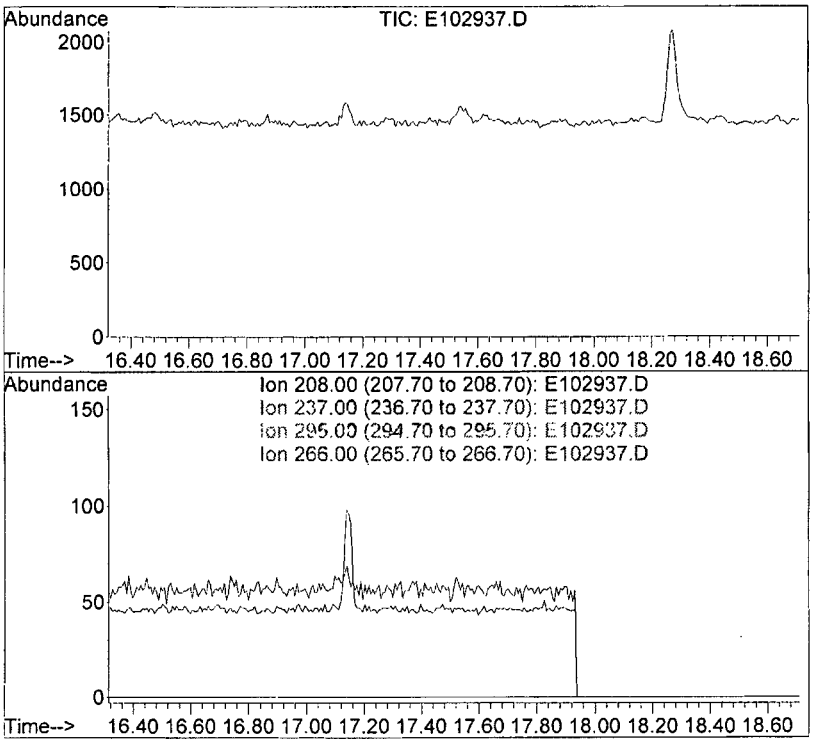
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102937.D
Acq On : 31 Oct 2010 10:41 am
Operator : JAR
Sample : AE101015-15
Misc : BBNPP-D2
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Nov 01 08:02:43 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



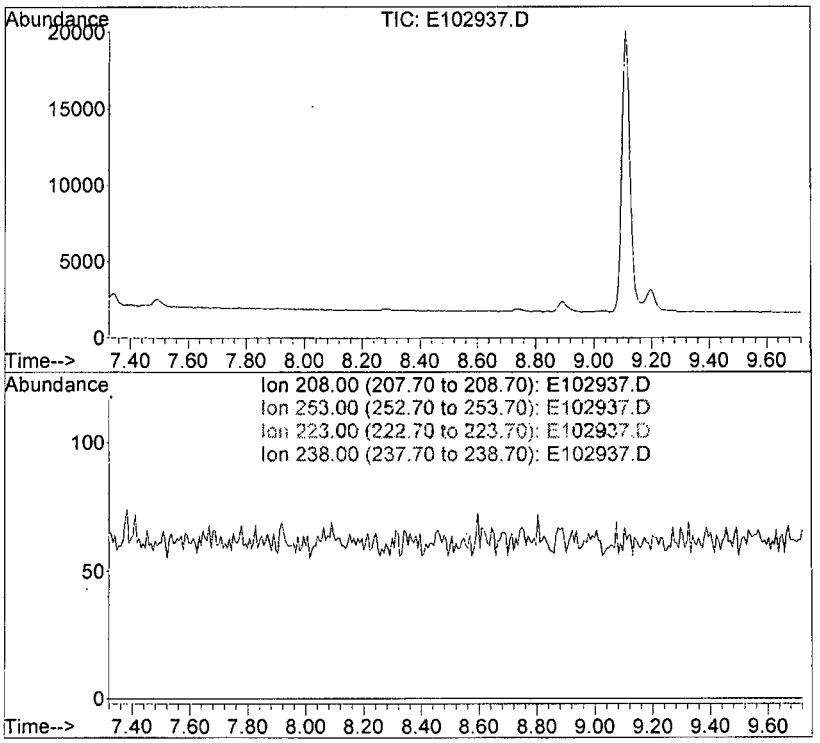


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102937.D
Acq: 31 Oct 2010 10:41 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

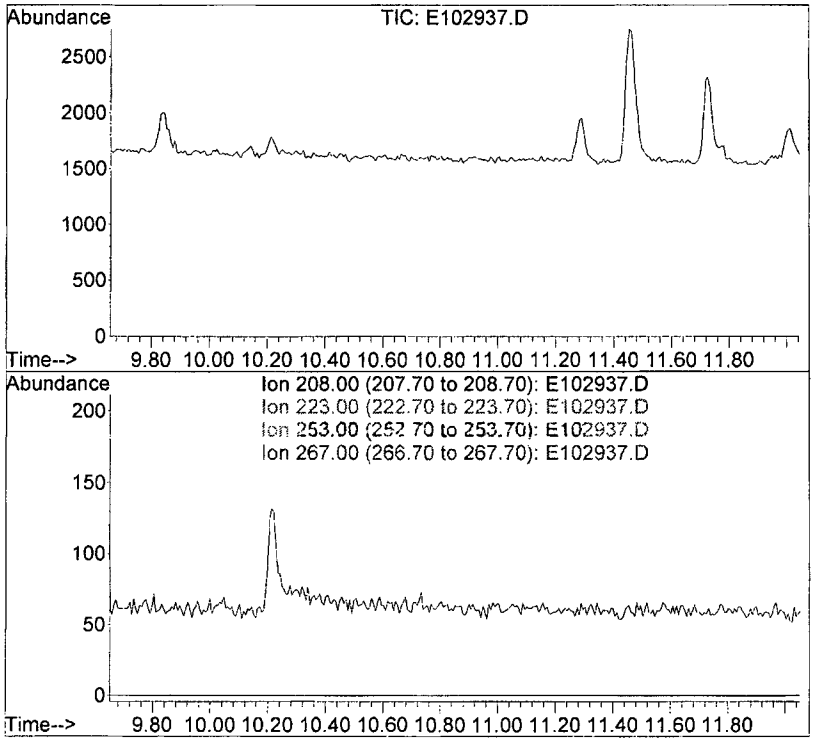


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102937.D
Acq: 31 Oct 2010 10:41 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

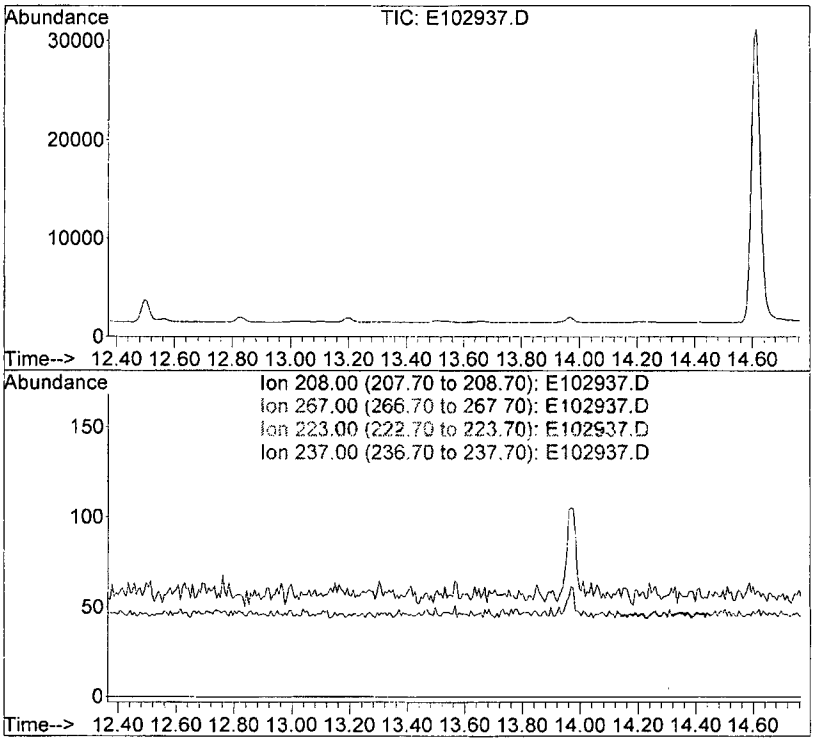


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102937.D
Acq: 31 Oct 2010 10:41 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

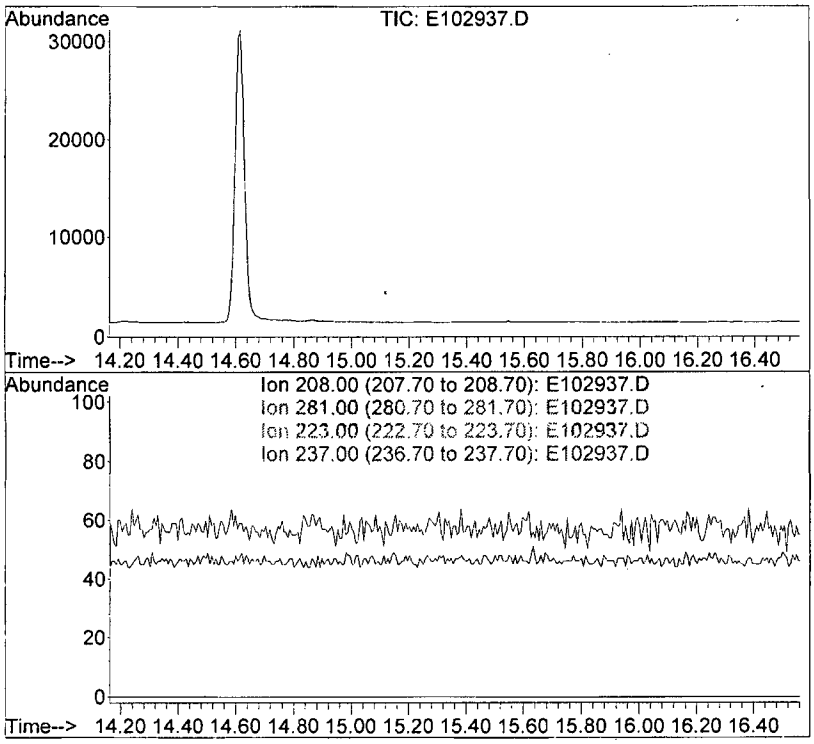


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102937.D
Acq: 31 Oct 2010 10:41 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102937.D
Acq: 31 Oct 2010 10:41 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102937.D
Acq On : 31 Oct 2010 10:41 am
Operator : JAR
Sample : AE101015-15
Misc : BBNPP-D2
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Nov 01 08:40:16 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	40320	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	25638	0.537	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	54.00%	
3) Toluene-d8	9.11	98	36918	0.723	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	72.00%	
4) Phenanthrene-d10	28.65	188	67134	0.797	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	80.00%	
5) Benzo(a)pyrene-d12	44.44	264	29247	0.583	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	58.00%	
6) Perylene-d12	44.79	264	34872	0.555	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	56.00%	

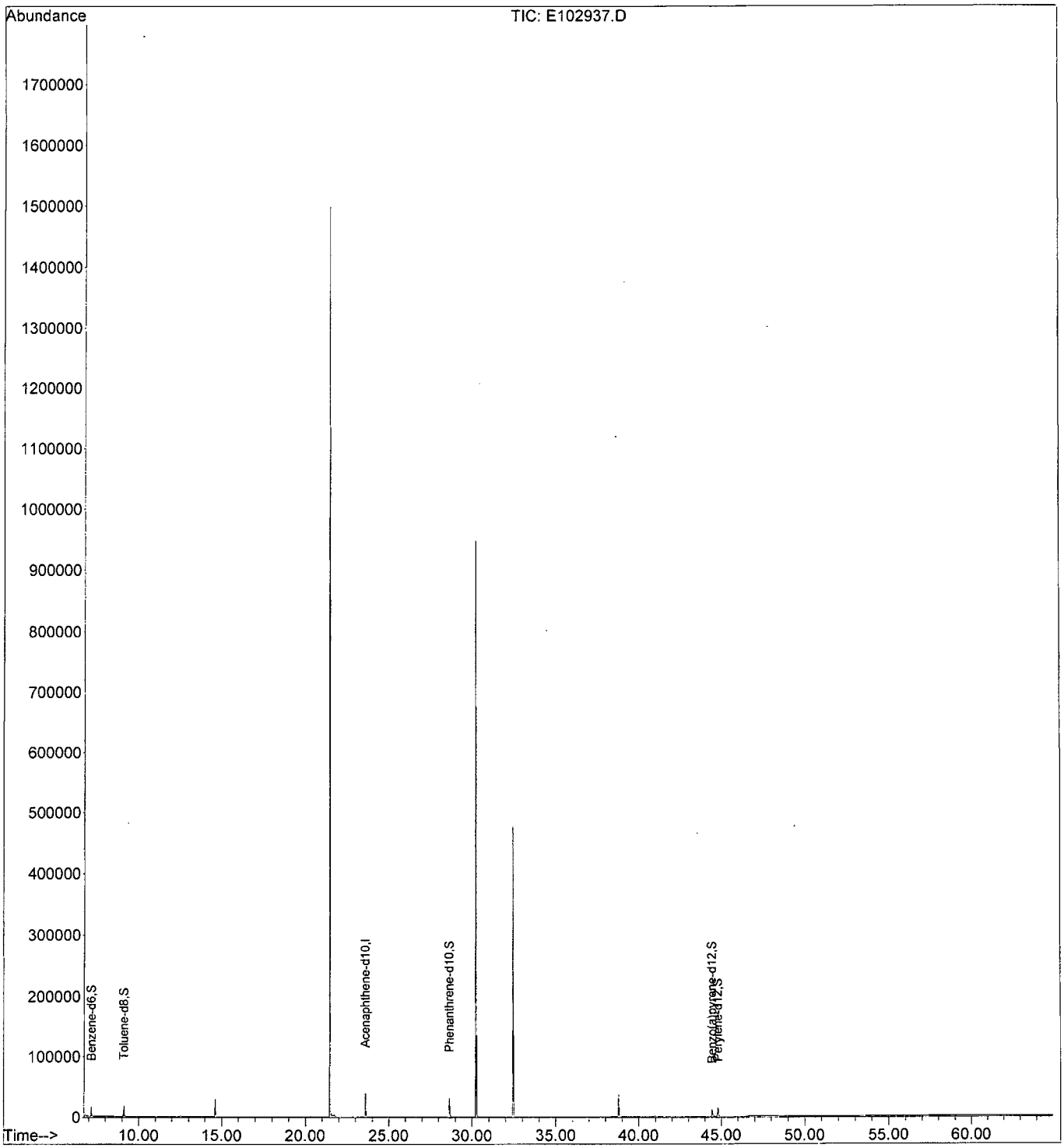
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102937.D
Acq On : 31 Oct 2010 10:41 am
Operator : JAR
Sample : AE101015-15
Misc : BBNPP-D2
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Nov 01 08:40:16 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102938.D
Acq On : 31 Oct 2010 11:57 am
Operator : JAR
Sample : AE101015-16
Misc : BBNPP-D1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 01 08:02:46 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

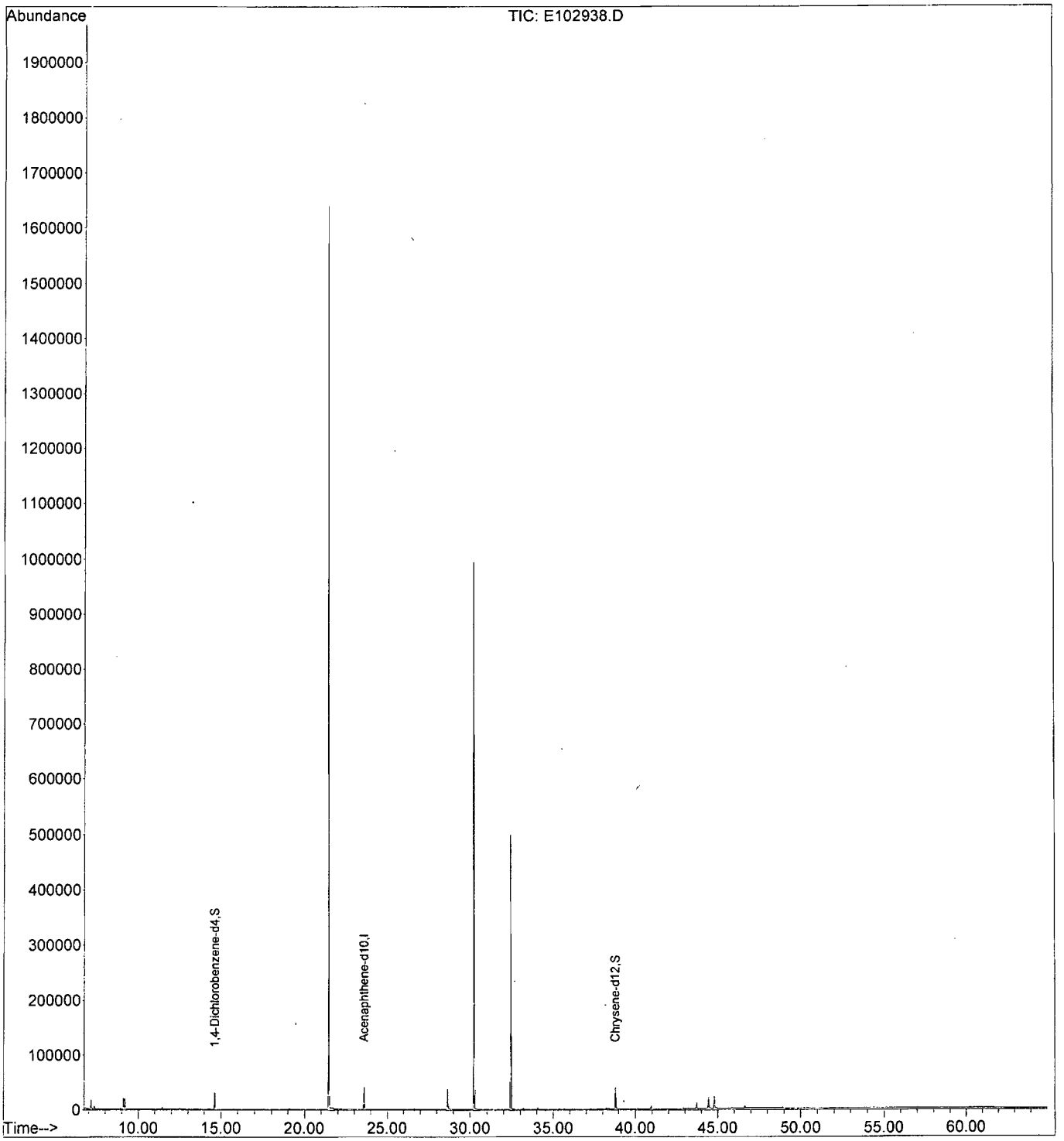
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41882	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22469	0.789	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.79	240	67644	0.740	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

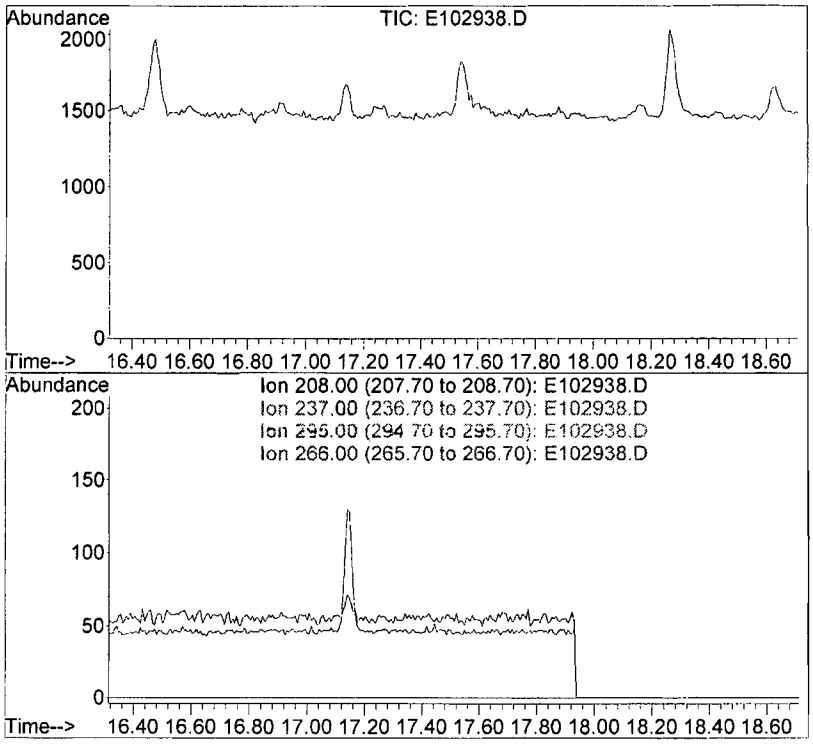
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102938.D
Acq On : 31 Oct 2010 11:57 am
Operator : JAR
Sample : AE101015-16
Misc : BBNPP-D1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 01 08:02:46 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



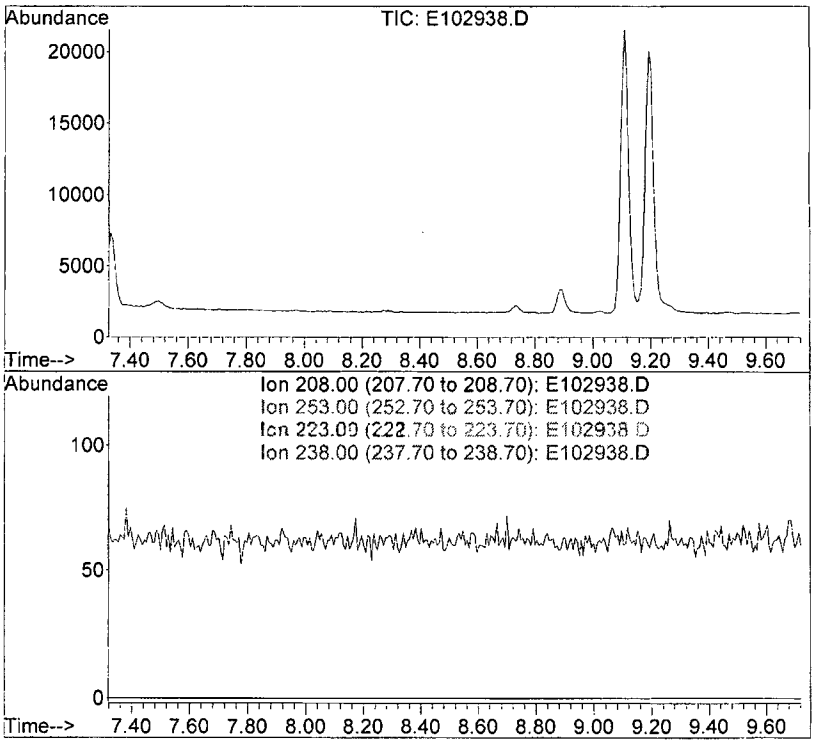


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102938.D
Acq: 31 Oct 2010 11:57 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

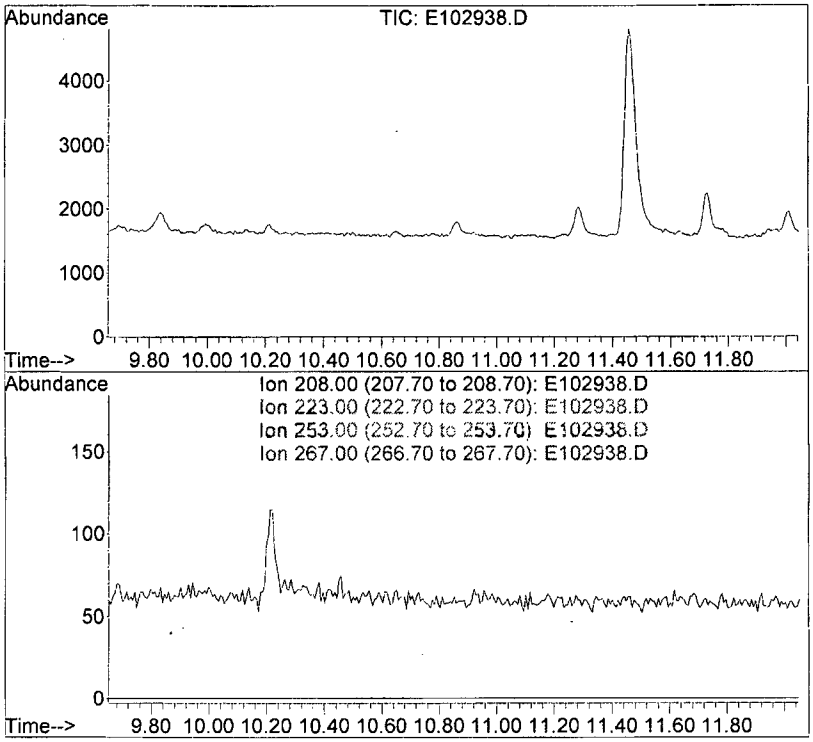


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102938.D
Acq: 31 Oct 2010 11:57 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

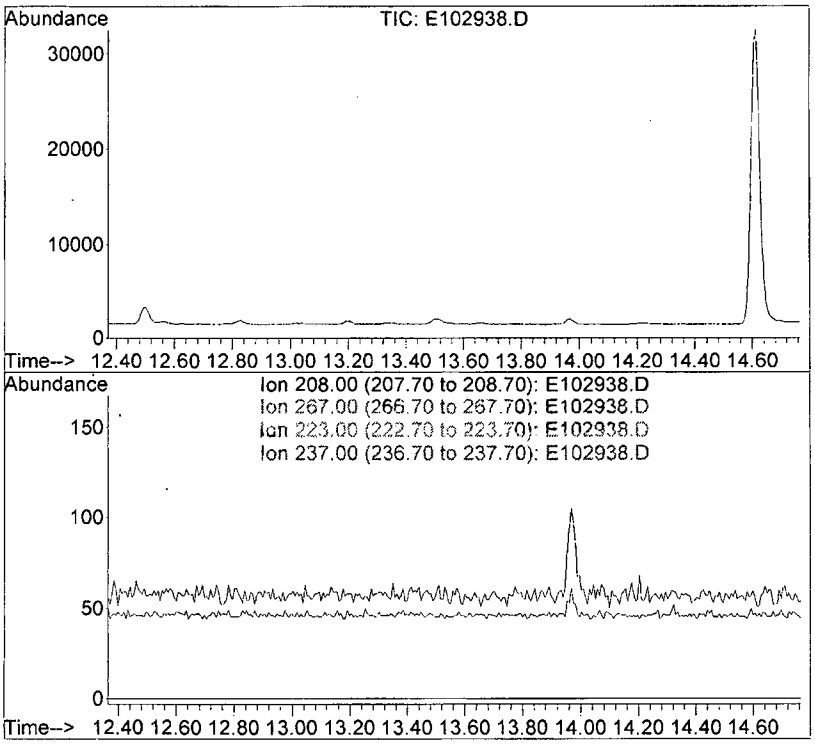


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102938.D
Acq: 31 Oct 2010 11:57 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

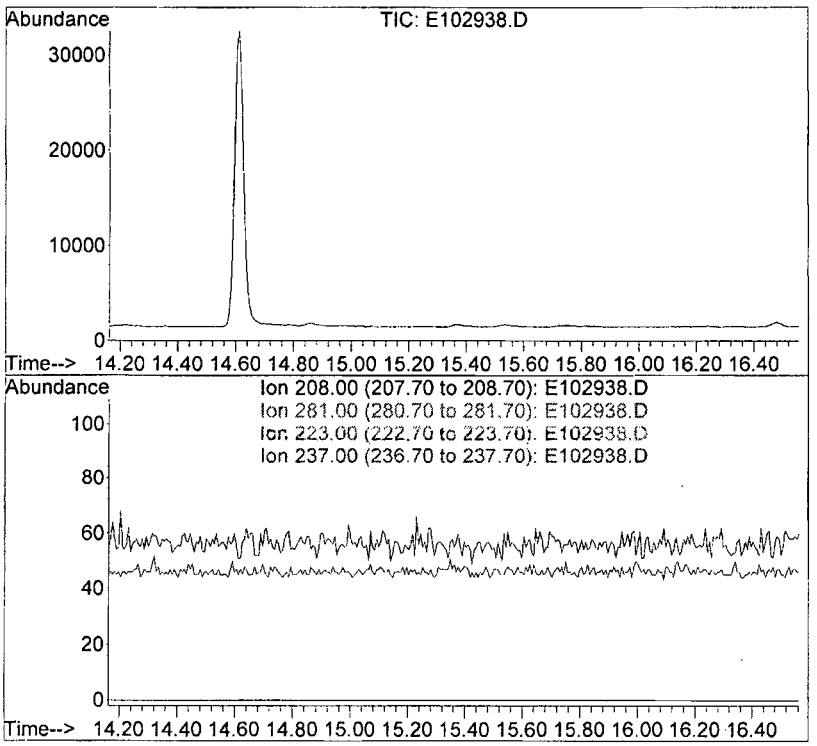


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102938.D
Acq: 31 Oct 2010 11:57 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102938.D
Acq: 31 Oct 2010 11:57 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102938.D
Acq On : 31 Oct 2010 11:57 am
Operator : JAR
Sample : AE101015-16
Misc : BBNPP-D1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 01 08:40:19 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41882	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	26285	0.530	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	53.00%	
3) Toluene-d8	9.11	98	39384	0.742	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	74.00%	
4) Phenanthrene-d10	28.65	188	77153	0.882	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	88.00%	
5) Benzo(a)pyrene-d12	44.44	264	51128	0.981	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	98.00%	
6) Perylene-d12	44.79	264	55353	0.849	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	85.00%	

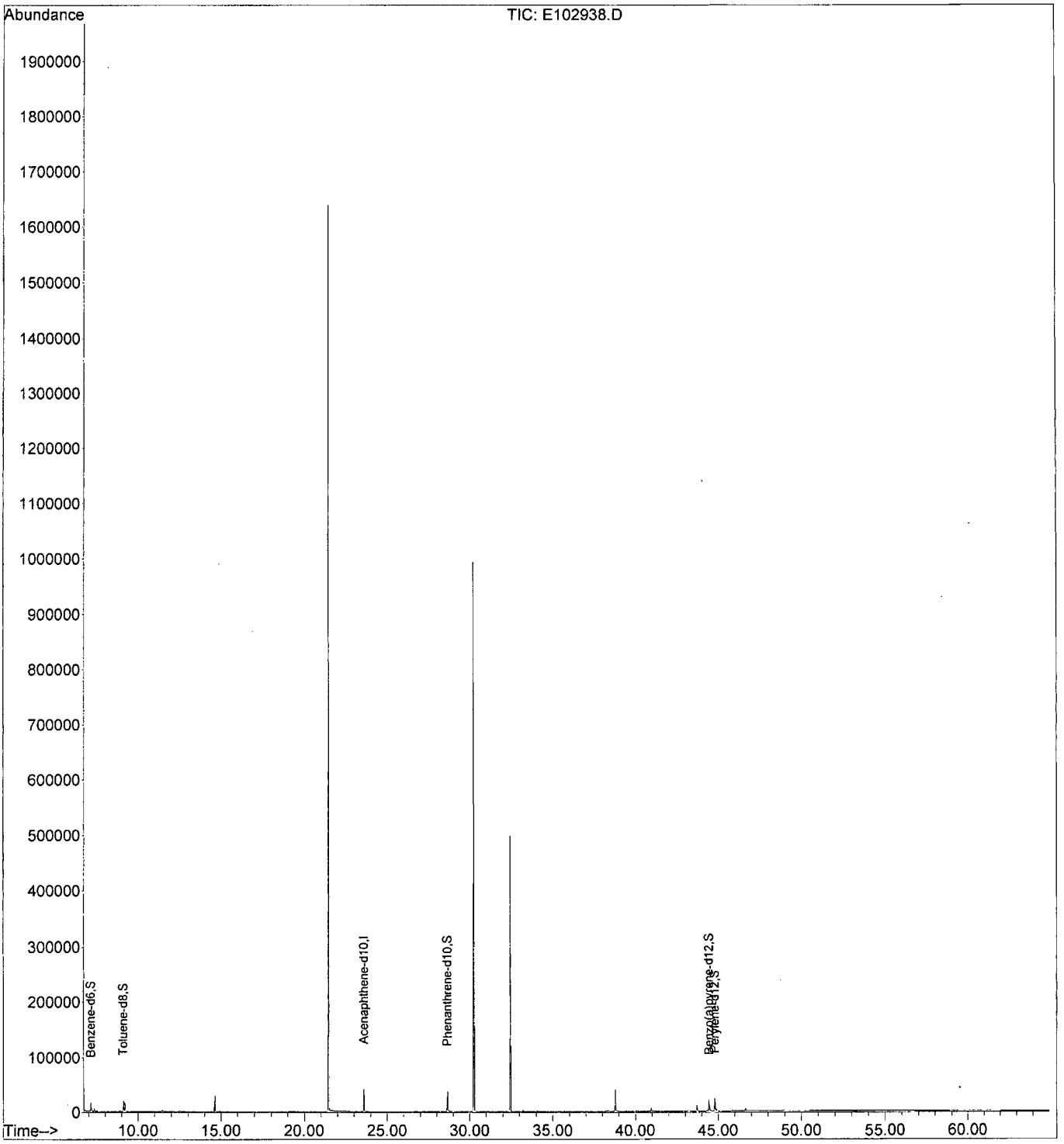
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102938.D
Acq On : 31 Oct 2010 11:57 am
Operator : JAR
Sample : AE101015-16
Misc : BBNPP-D1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Nov 01 08:40:19 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102939.D
Acq On : 31 Oct 2010 1:14 pm
Operator : JAR
Sample : AE101015-17
Misc : BBNPP-R-C
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 01 08:02:48 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

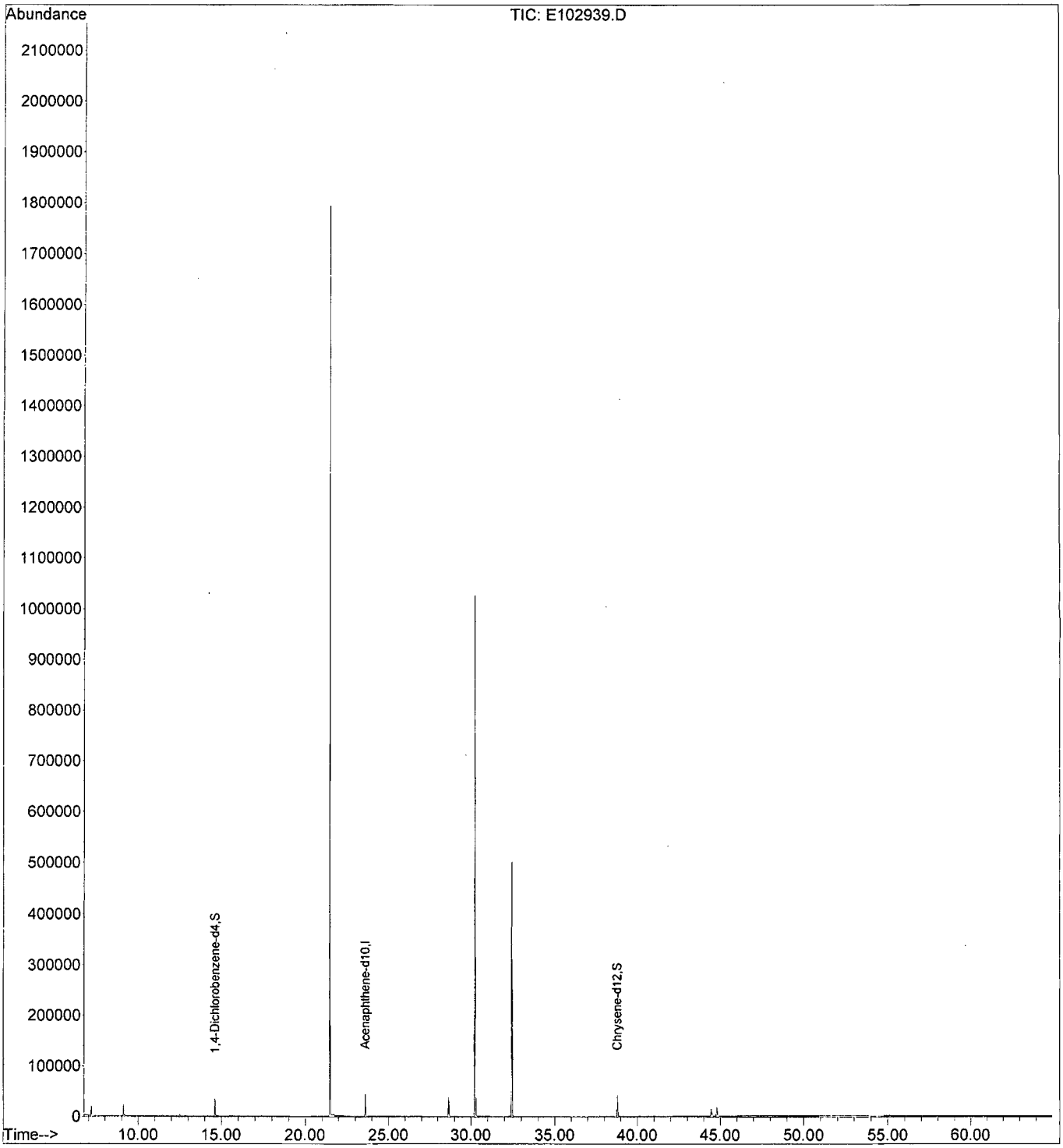
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	45235	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	24141	0.785	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.79	240	69601	0.705	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	63.64%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

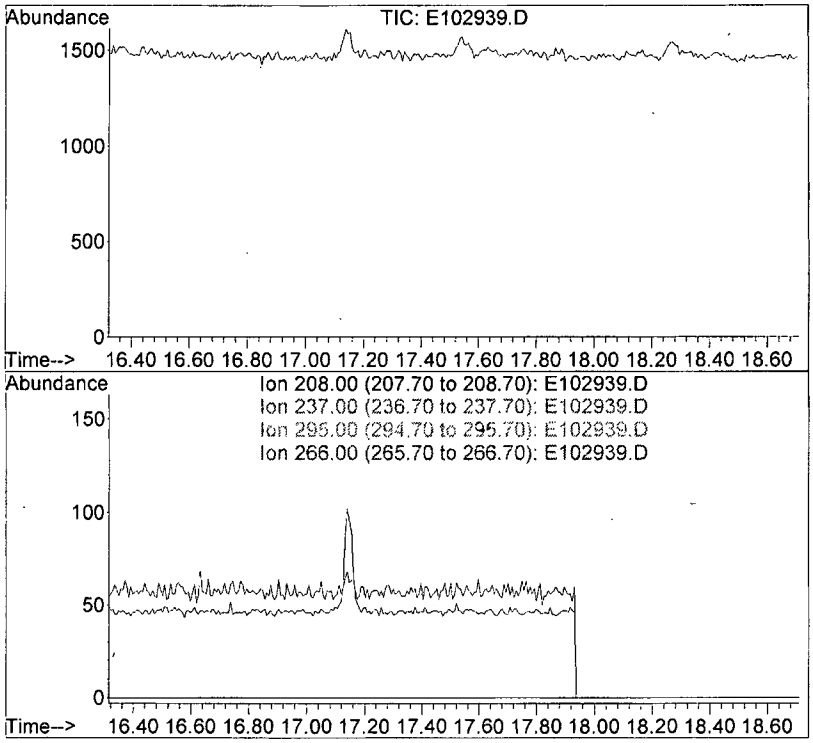
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102939.D
Acq On : 31 Oct 2010 1:14 pm
Operator : JAR
Sample : AE101015-17
Misc : BBNPP-R-C
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 01 08:02:48 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



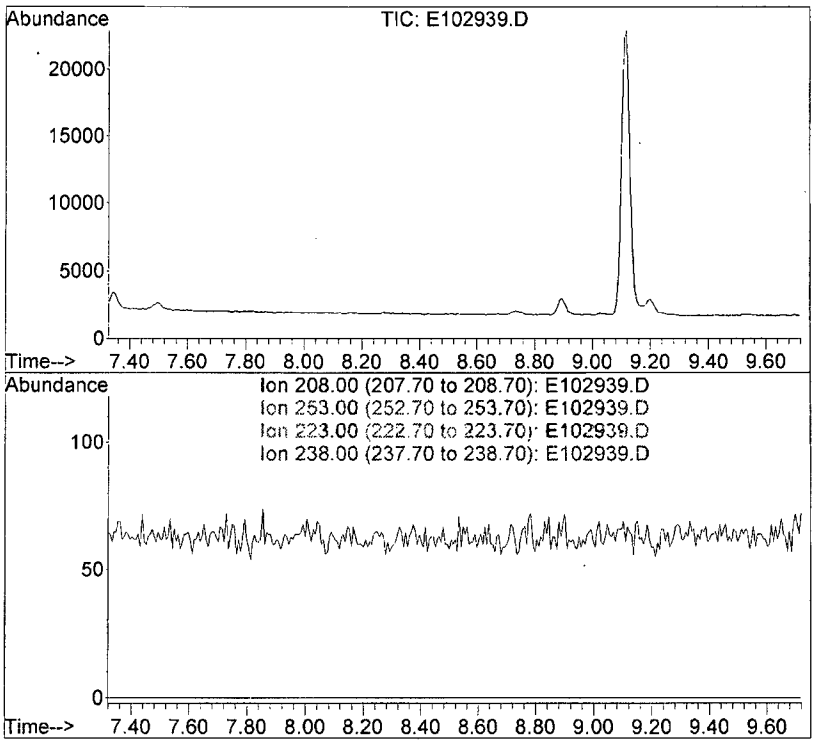


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102939.D
Acq: 31 Oct 2010 1:14 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

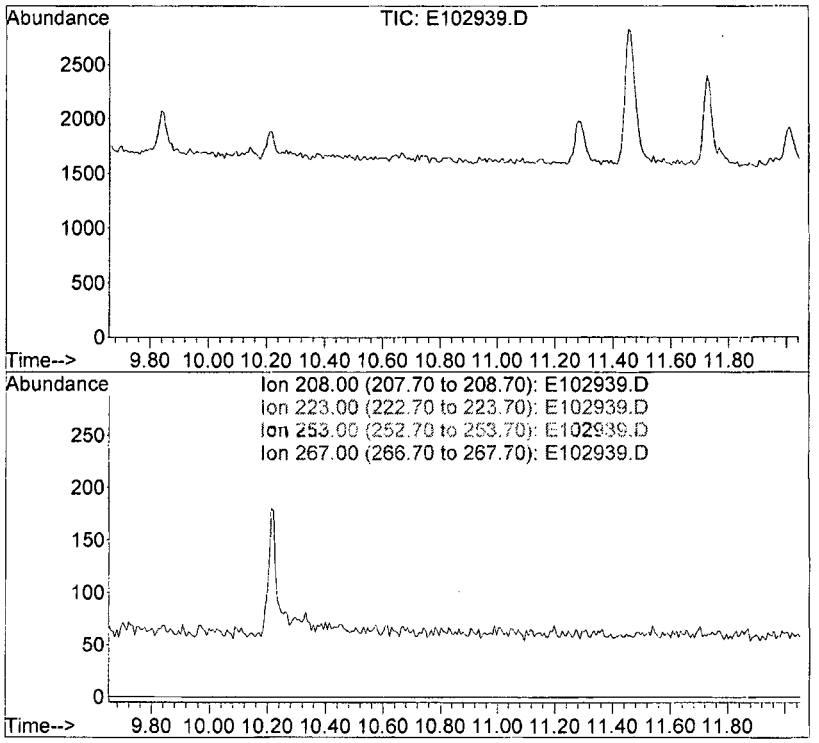


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102939.D
Acq: 31 Oct 2010 1:14 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

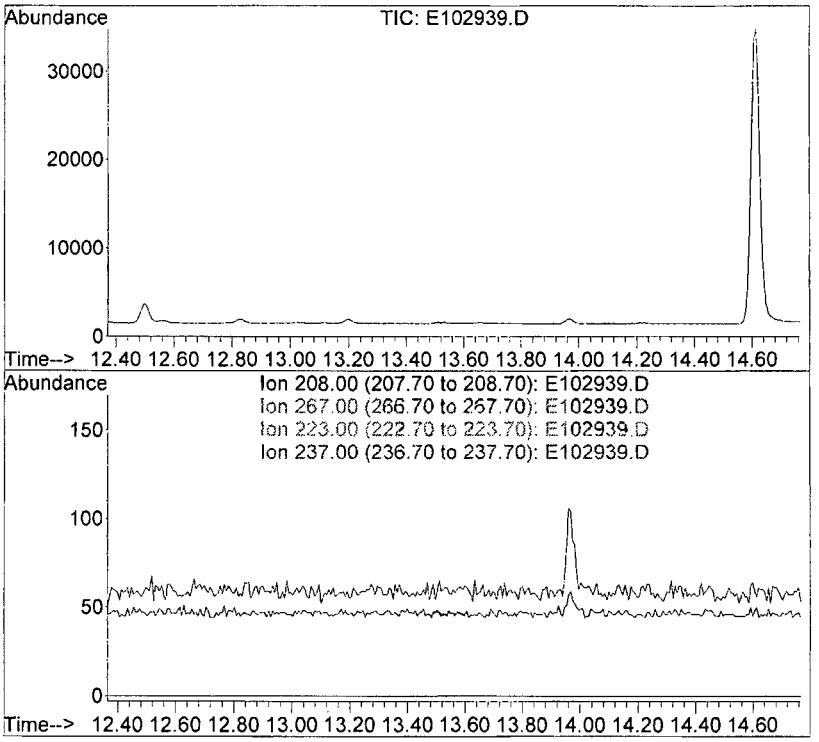


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102939.D
Acq: 31 Oct 2010 1:14 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

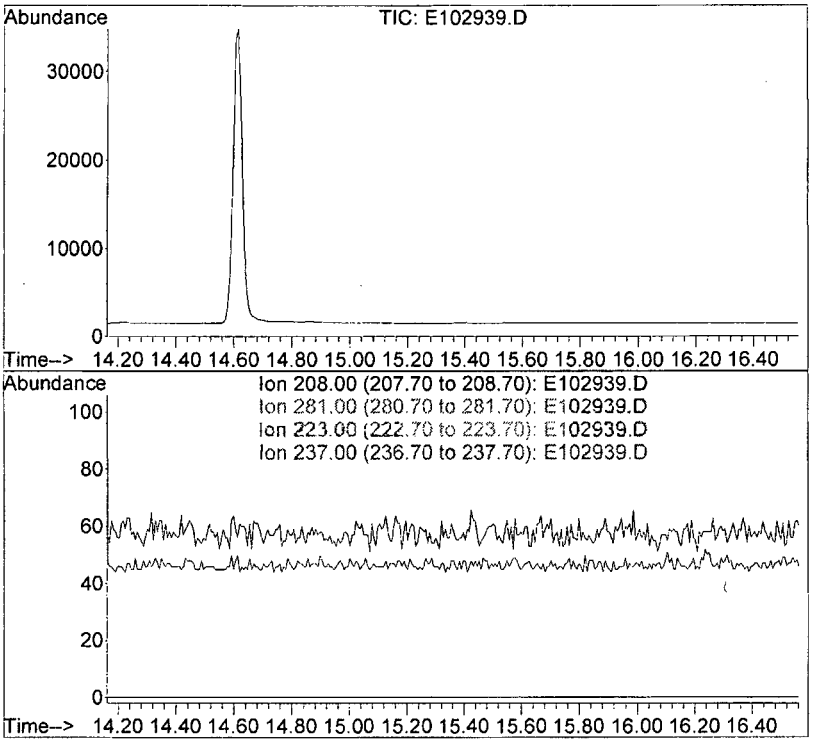


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102939.D
Acq: 31 Oct 2010 1:14 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102939.D
Acq: 31 Oct 2010 1:14 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102939.D
Acq On : 31 Oct 2010 1:14 pm
Operator : JAR
Sample : AE101015-17
Misc : BBNPP-R-C
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 01 08:40:22 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	45235	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	29482	0.550	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	55.00%	
3) Toluene-d8	9.12	98	43120	0.753	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
4) Phenanthrene-d10	28.65	188	79137	0.838	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
5) Benzo(a)pyrene-d12	44.44	264	34195	0.608	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	61.00%	
6) Perylene-d12	44.79	264	40619	0.577	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	58.00%	

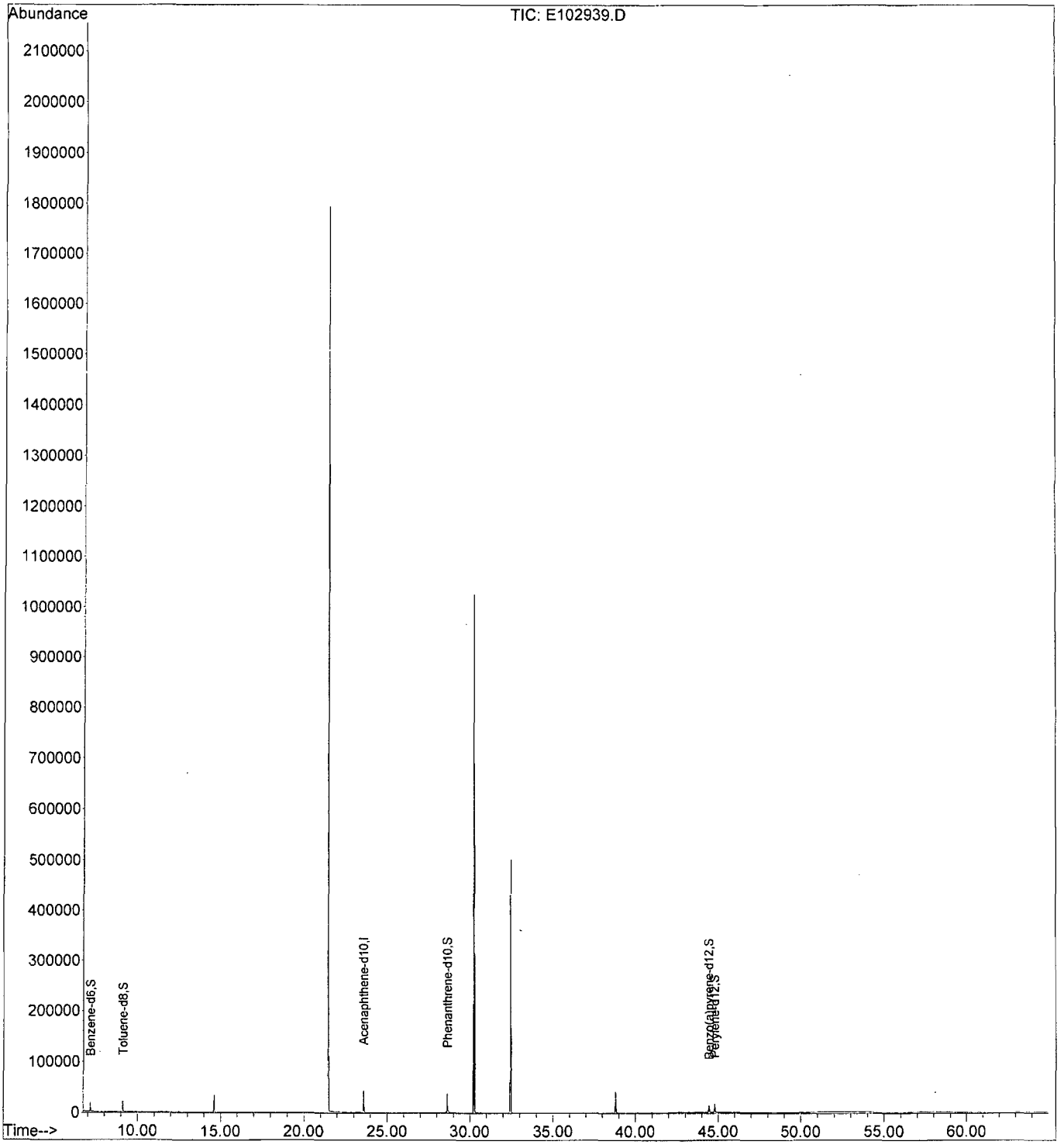
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102939.D
Acq On : 31 Oct 2010 1:14 pm
Operator : JAR
Sample : AE101015-17
Misc : BBNPP-R-C
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 01 08:40:22 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102940.D
Acq On : 31 Oct 2010 2:30 pm
Operator : JAR
Sample : AE101015-17MS
Misc : Matrix Spike of BBNPP-R-C
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 01 08:02:50 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

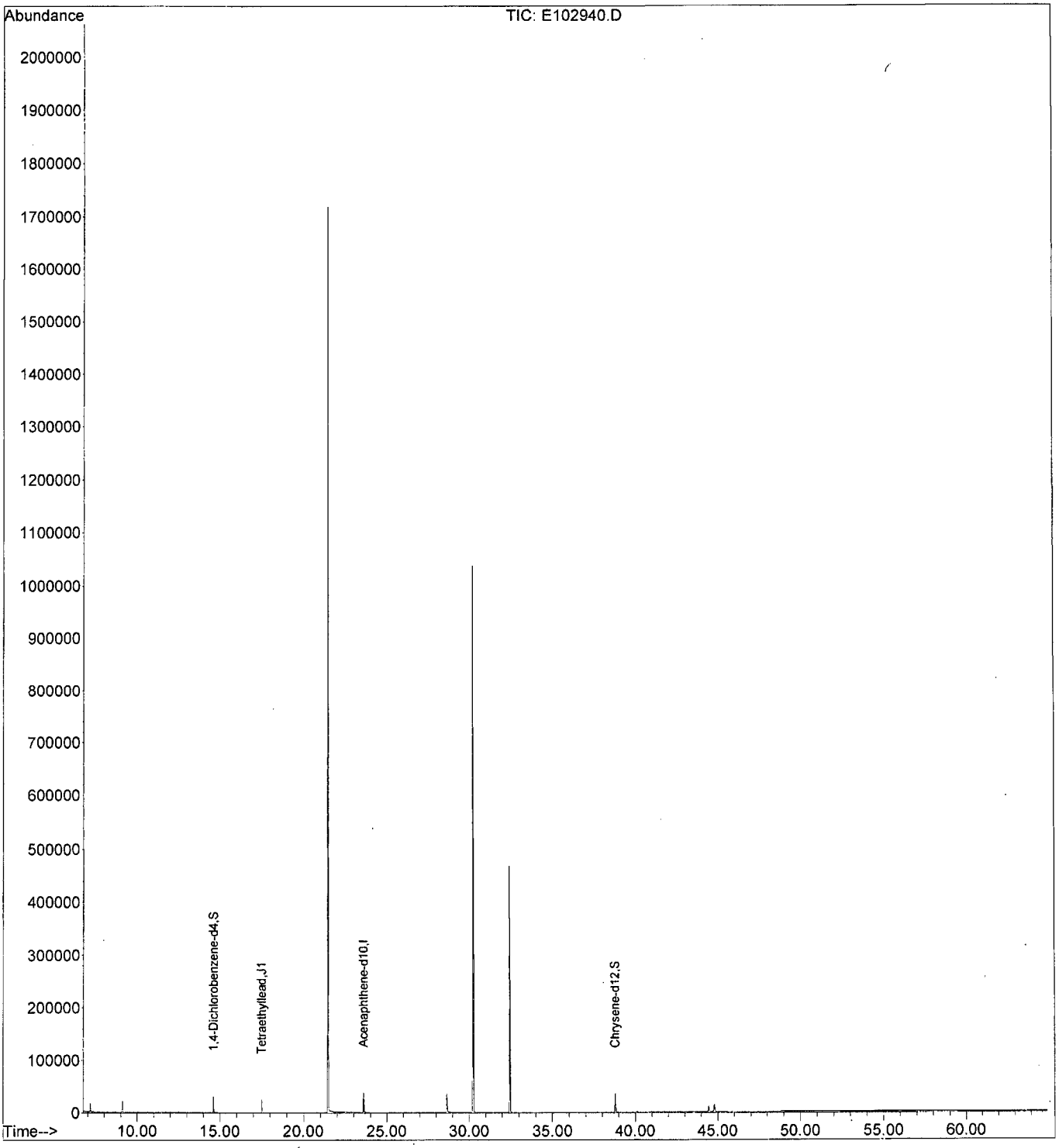
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39670	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	21608	0.801	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	72.73%	
3) Chrysene-d12	38.79	240	61108	0.705	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	64.55%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	14905	1.401	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

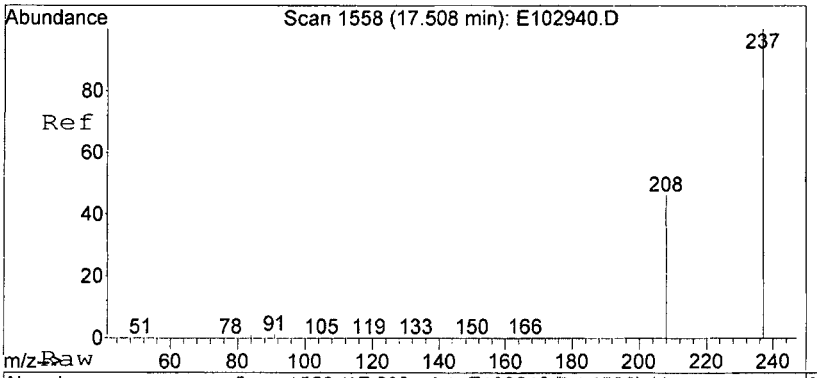
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102940.D
Acq On : 31 Oct 2010 2:30 pm
Operator : JAR
Sample : AE101015-17MS
Misc : Matrix Spike of BBNPP-R-C
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 01 08:02:50 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

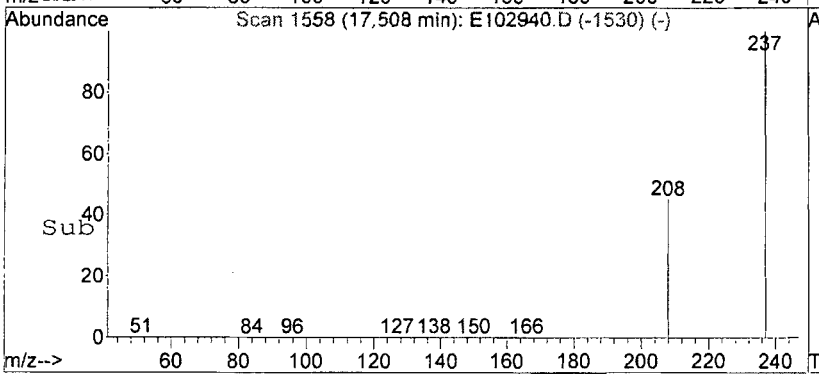


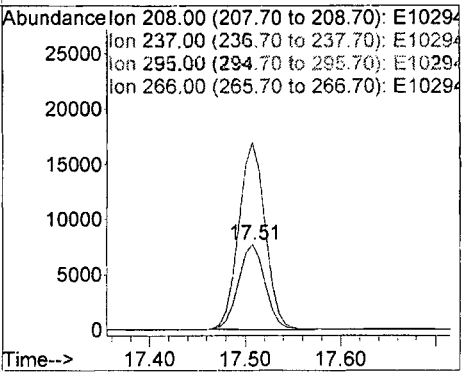


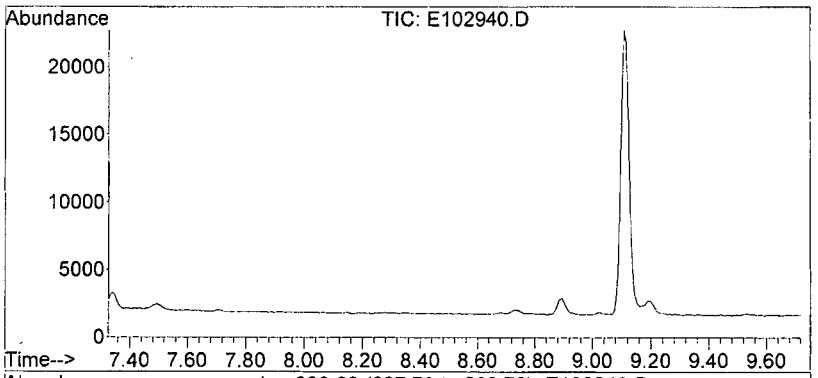
#4
Tetraethyllead
Concen: 1.401 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102940.D
Acq: 31 Oct 2010 2:30 pm

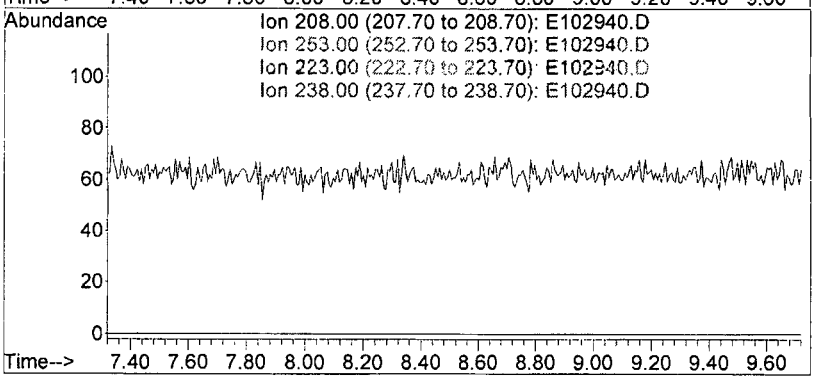
Tgt Ion:208 Resp: 14905

Ion	Ratio	Lower	Upper
208	100		
237	220.3	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







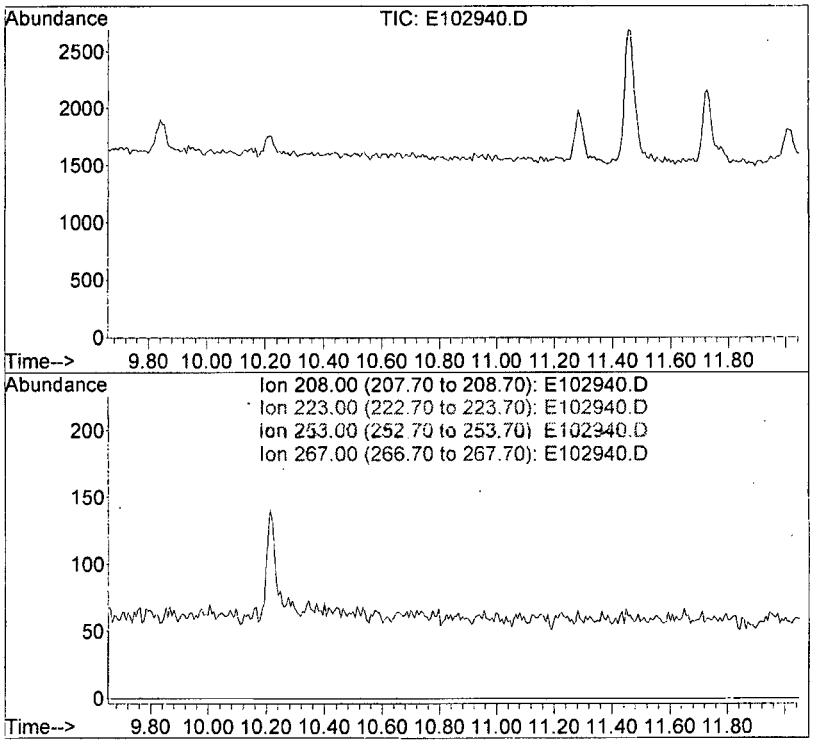


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102940.D
Acq: 31 Oct 2010 2:30 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

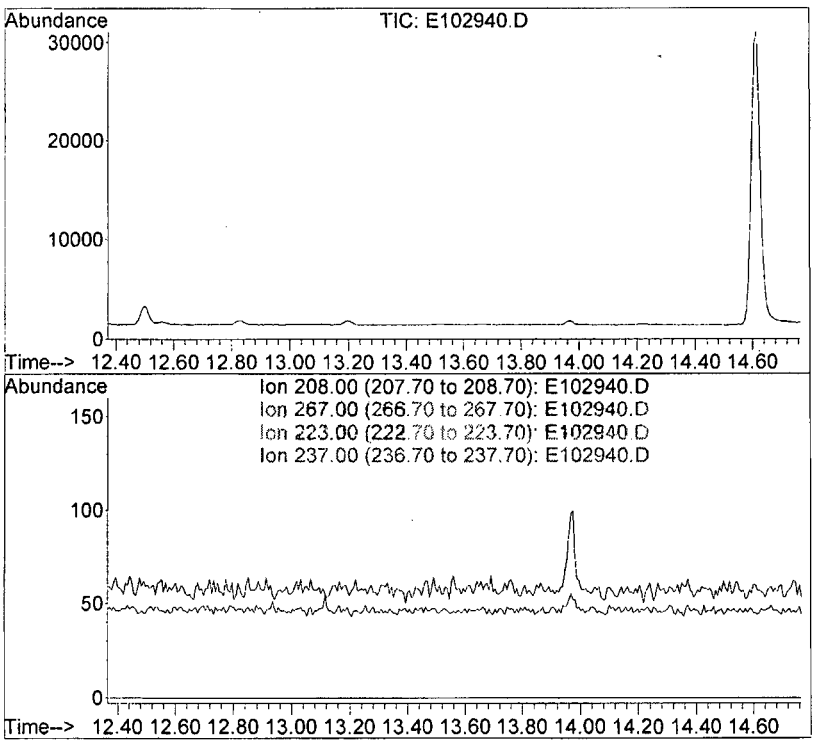


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102940.D
Acq: 31 Oct 2010 2:30 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

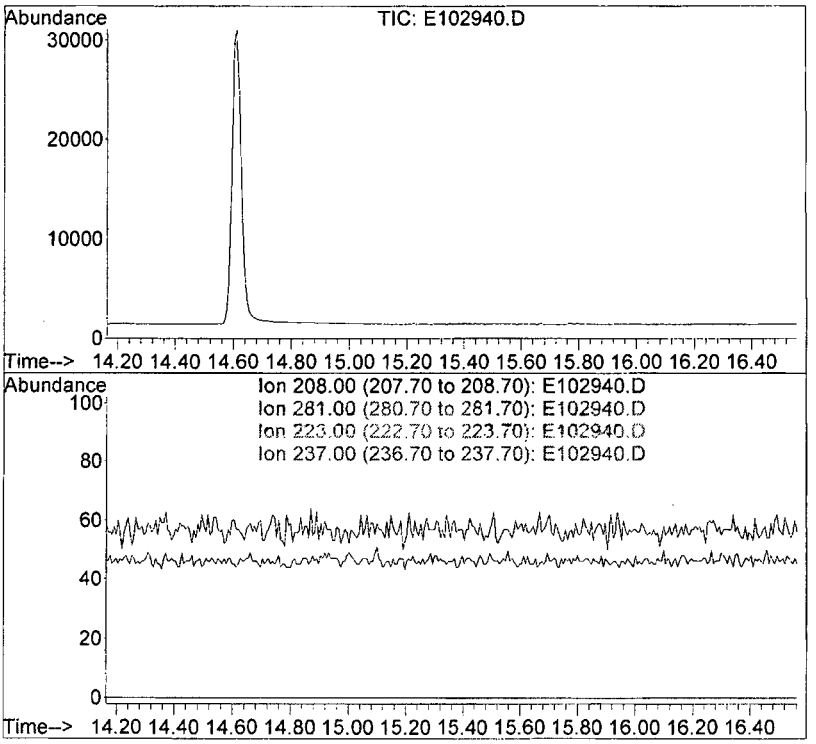


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102940.D
Acq: 31 Oct 2010 2:30 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102940.D
Acq: 31 Oct 2010 2:30 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102940.D
Acq On : 31 Oct 2010 2:30 pm
Operator : JAR
Sample : AE101015-17MS
Misc : Matrix Spike of BBNPP-R-C
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 01 08:40:24 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39687	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	28606	0.609	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	61.00%	
3) Toluene-d8	9.11	98	42474	0.845	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
4) Phenanthrene-d10	28.65	188	75874	0.915	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	92.00%	
5) Benzo(a)pyrene-d12	44.44	264	29414	0.596	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	60.00%	
6) Perylene-d12	44.79	264	35638	0.577	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	58.00%	

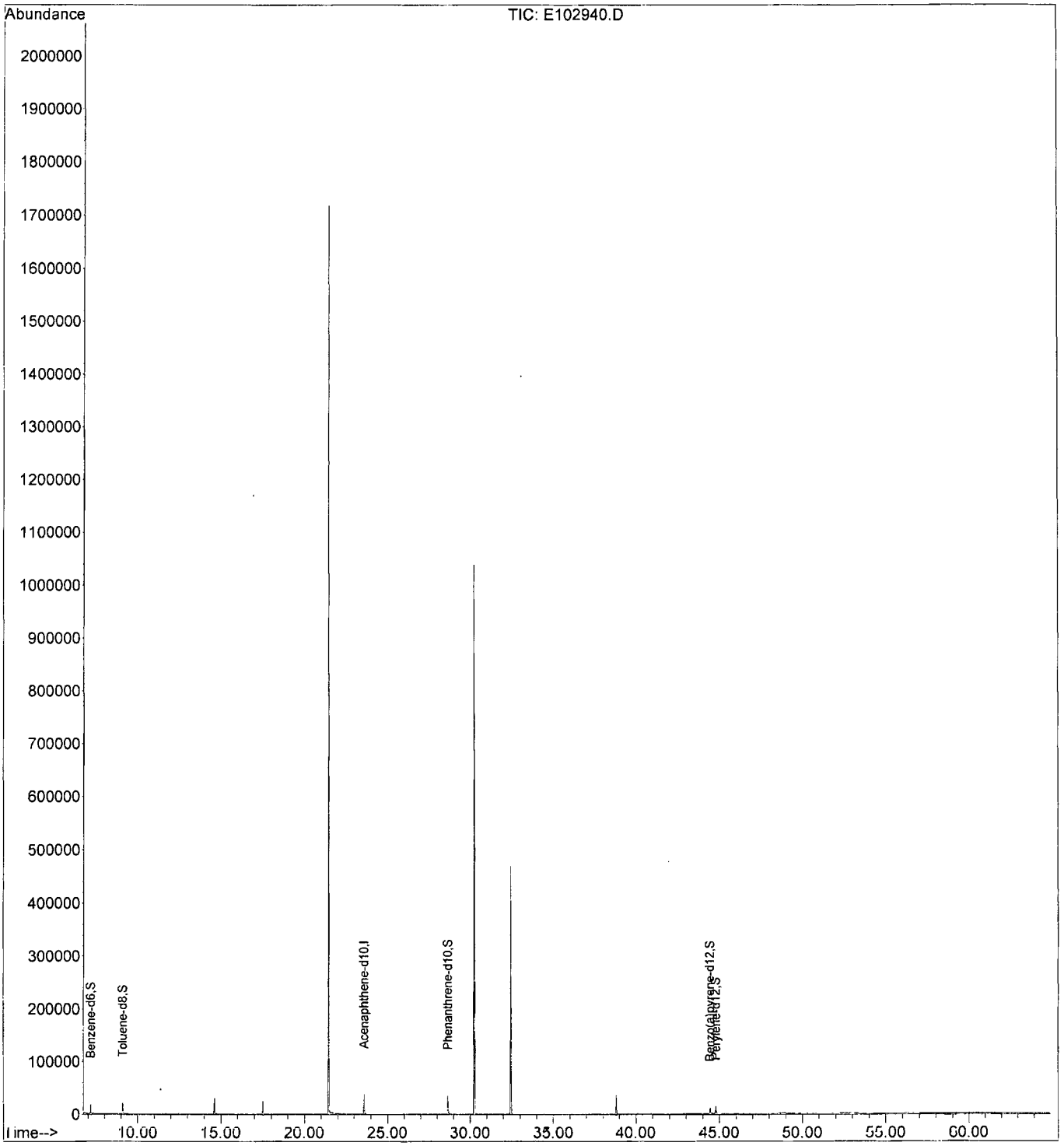
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102940.D
Acq On : 31 Oct 2010 2:30 pm
Operator : JAR
Sample : AE101015-17MS
Misc : Matrix Spike of BBNPP-R-C
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Nov 01 08:40:24 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102941.D
Acq On : 31 Oct 2010 3:47 pm
Operator : JAR
Sample : AE101015-17MSD
Misc : Matrix Spike Duplicate of BBNPP-R-C
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 01 08:02:52 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

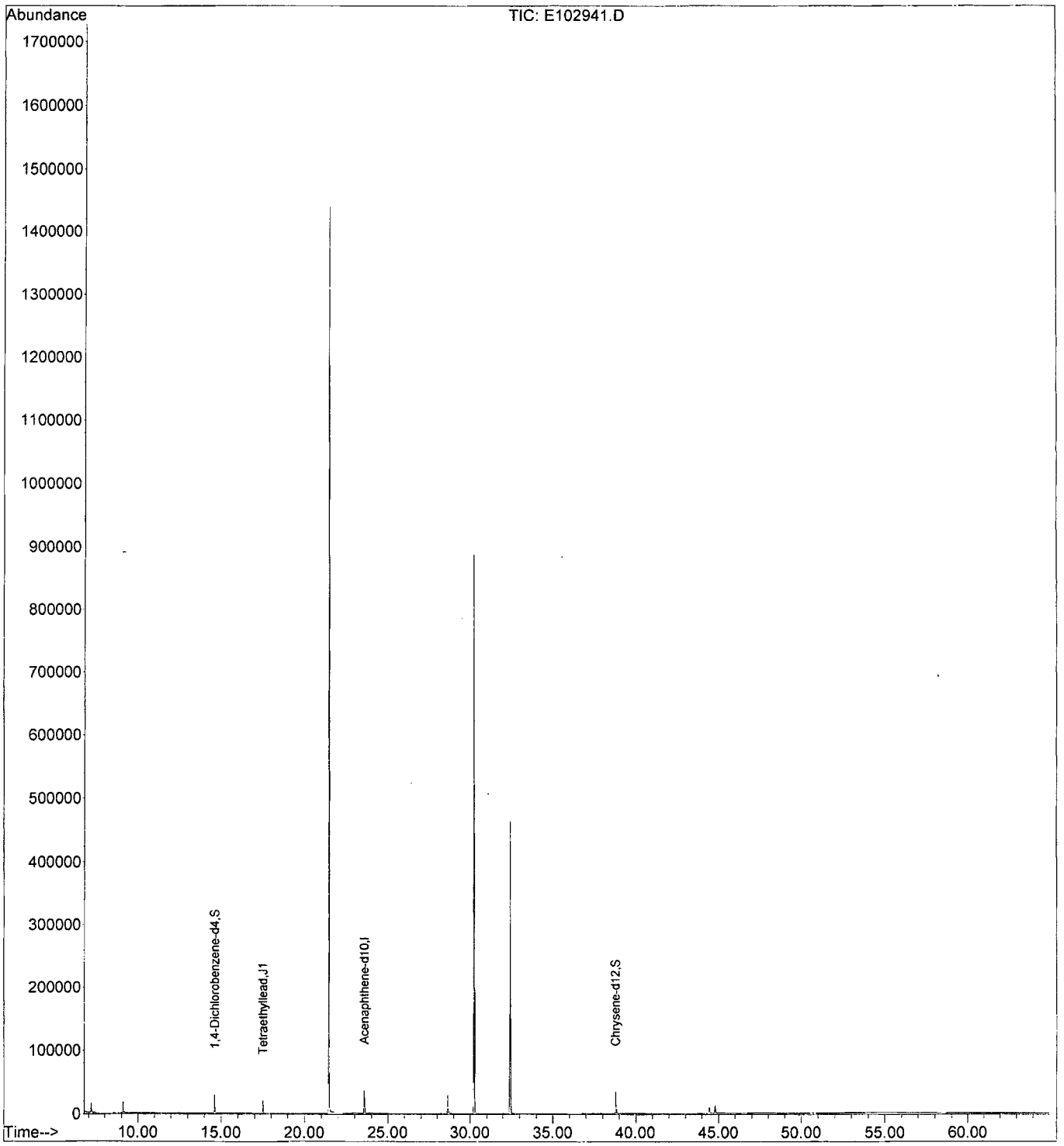
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	37974	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	20943	0.811	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.79	240	57729	0.696	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	63.64%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	12289	1.208	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

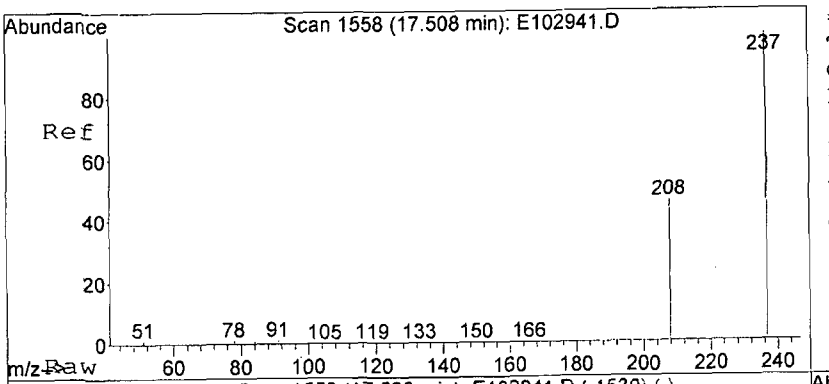
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102941.D
Acq On : 31 Oct 2010 3:47 pm
Operator : JAR
Sample : AE101015-17MSD
Misc : Matrix Spike Duplicate of BBNPP-R-C
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 01 08:02:52 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

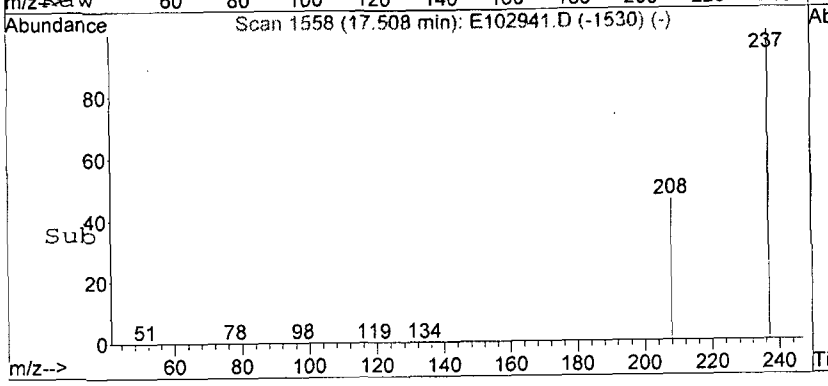


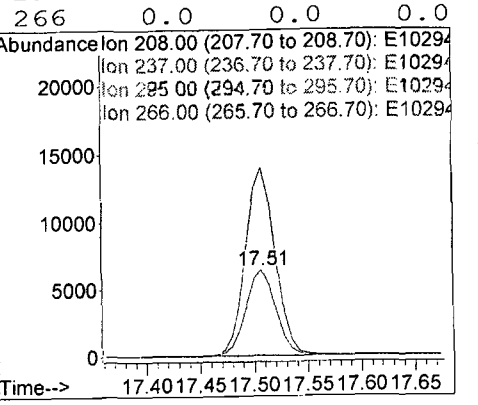


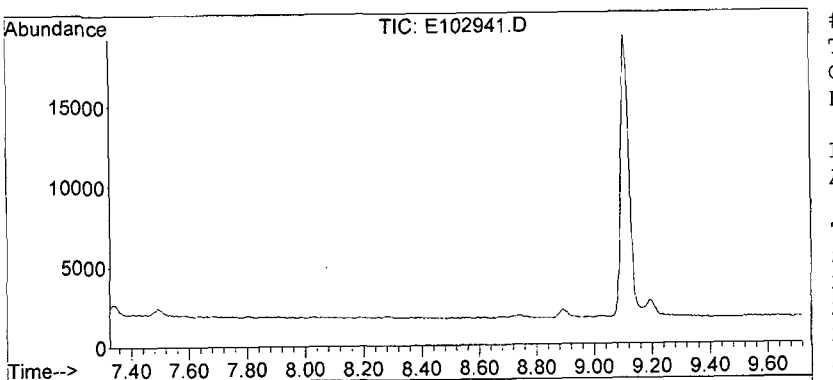
#4
Tetraethyllead
Concen: 1.208 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102941.D
Acq: 31 Oct 2010 3:47 pm

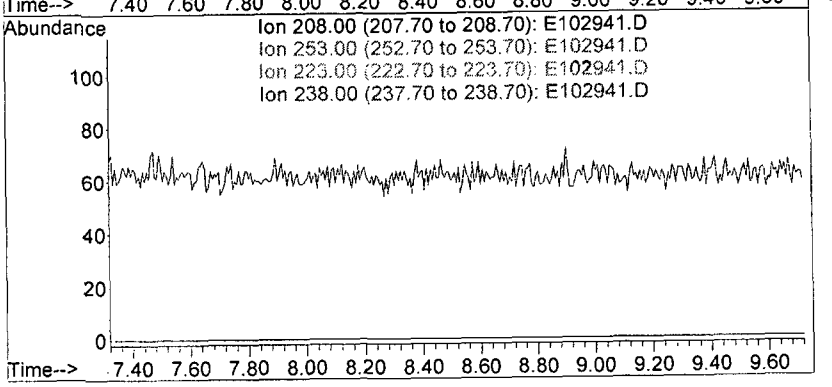
Tgt Ion:208 Resp: 12289

Ion	Ratio	Lower	Upper
208	100		
237	219.6	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







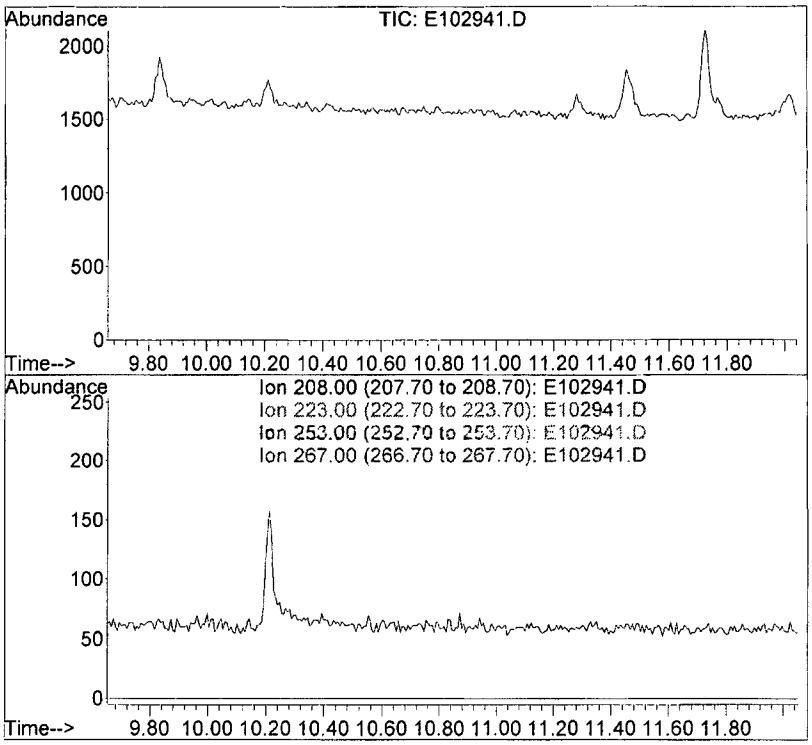


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102941.D
Acq: 31 Oct 2010 3:47 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

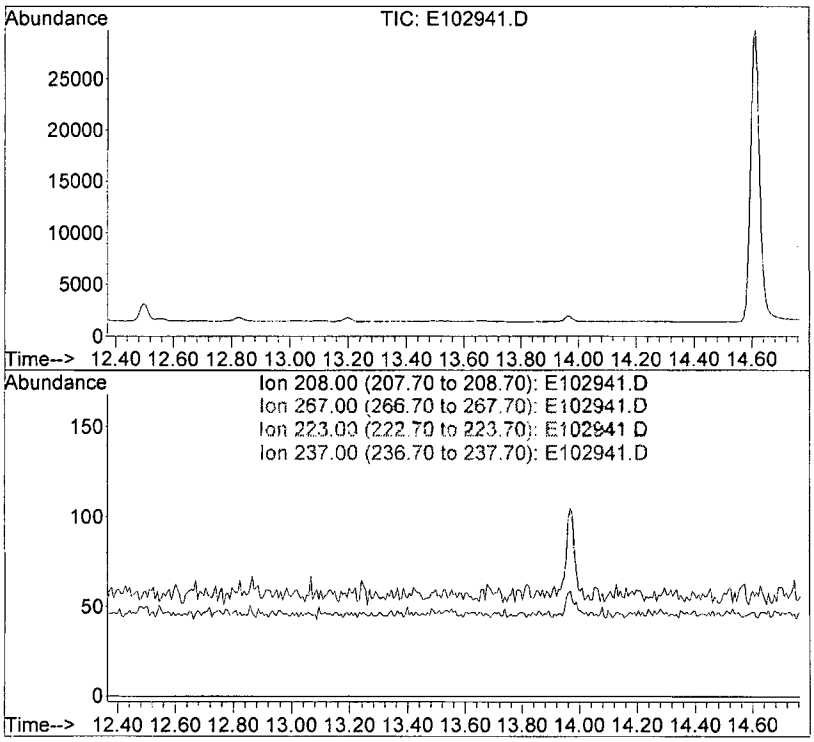


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102941.D
Acq: 31 Oct 2010 3:47 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

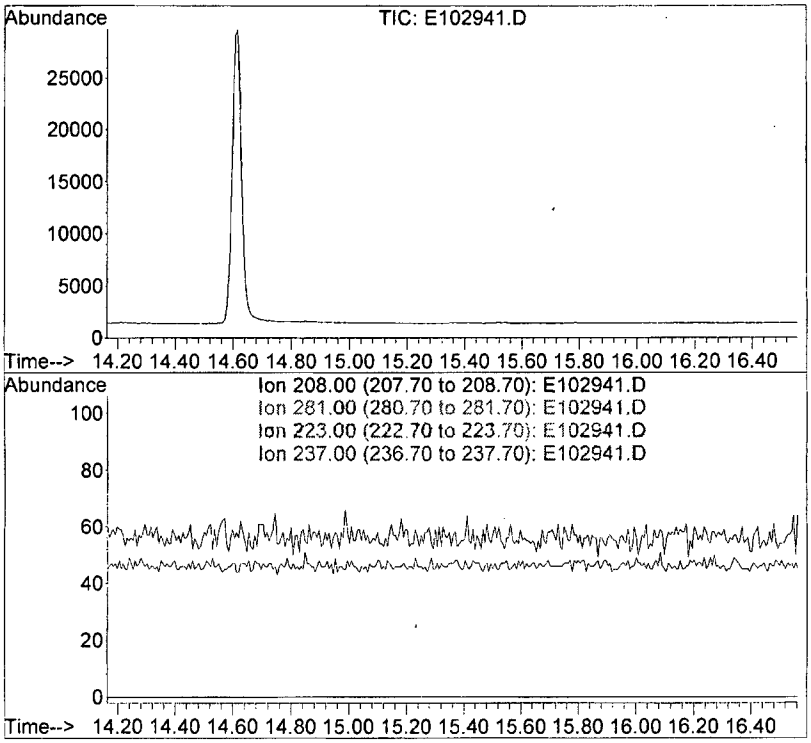


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102941.D
Acq: 31 Oct 2010 3:47 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102941.D
Acq: 31 Oct 2010 3:47 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102941.D
Acq On : 31 Oct 2010 3:47 pm
Operator : JAR
Sample : AE101015-17MSD
Misc : Matrix Spike Duplicate of BBNPP-R-C
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 01 08:40:26 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	37994	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.15	84	25233	0.561 µg/mL	0.01
Spiked Amount 1.000			Recovery	= 56.00%	
3) Toluene-d8	9.11	98	35583	0.739 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 74.00%	
4) Phenanthrene-d10	28.65	188	62898	0.793 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 79.00%	
5) Benzo(a)pyrene-d12	44.44	264	23529	0.498 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 50.00%	
6) Perylene-d12	44.79	264	29194	0.493 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 49.00%	

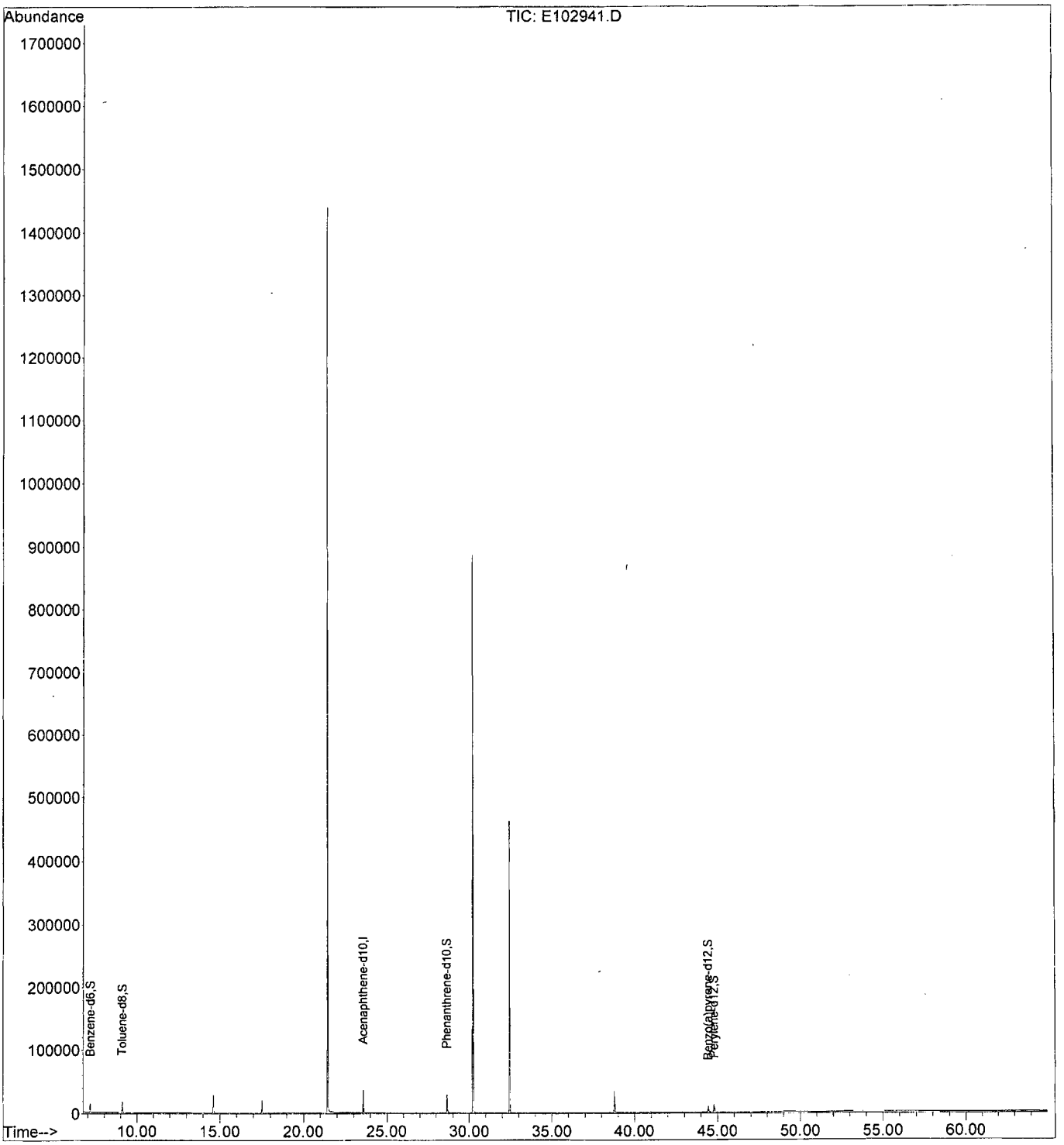
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102941.D
Acq On : 31 Oct 2010 3:47 pm
Operator : JAR
Sample : AE101015-17MSD
Misc : Matrix Spike Duplicate of BBNPP-R-C
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Nov 01 08:40:26 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102942.D
Acq On : 31 Oct 2010 5:03 pm
Operator : JAR
Sample : AE101015-18
Misc : BBNPP-CW22-C
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Nov 01 08:02:55 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

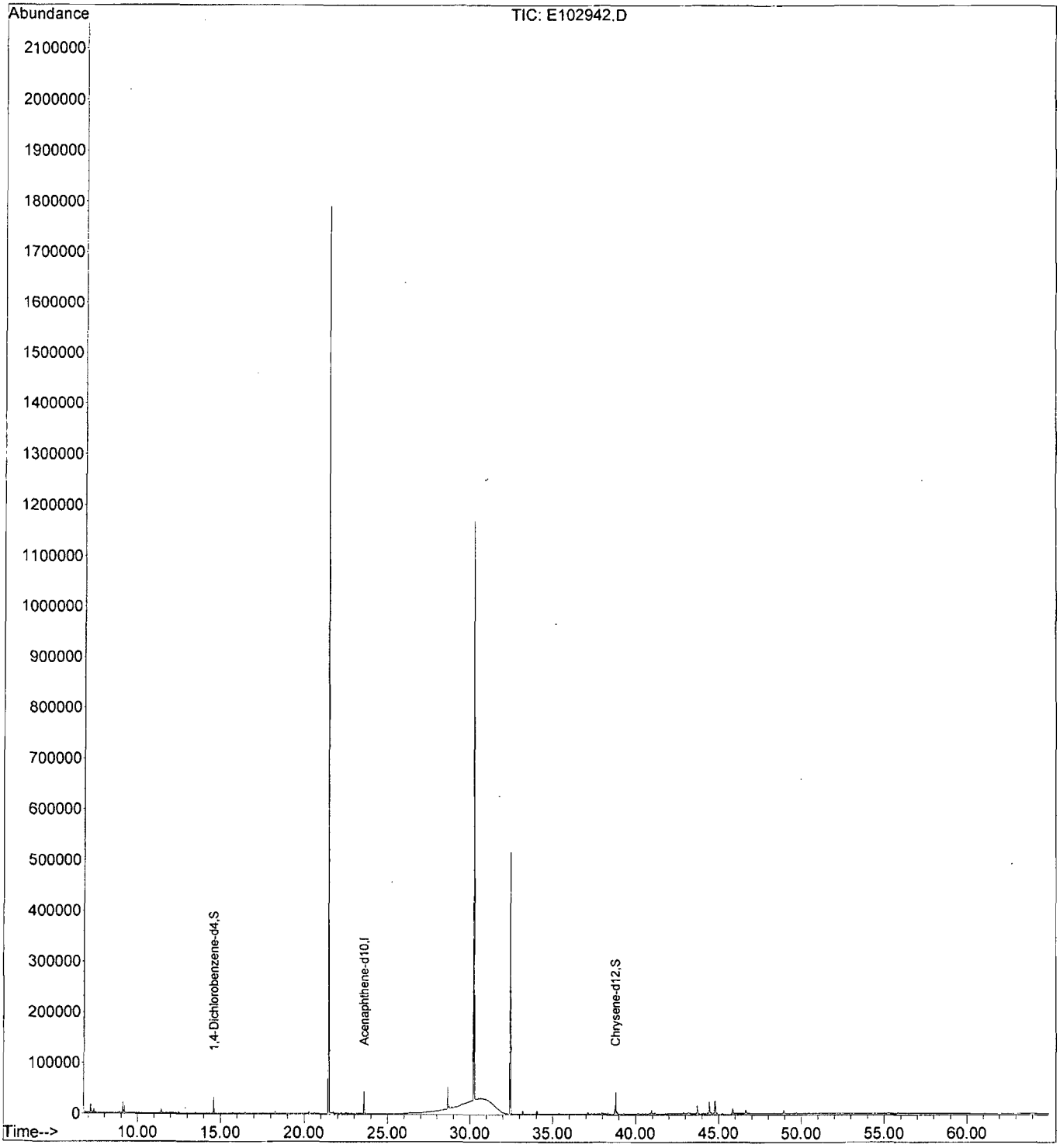
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	44394	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22745	0.754	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	68.18%	
3) Chrysene-d12	38.79	240	71761	0.740	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

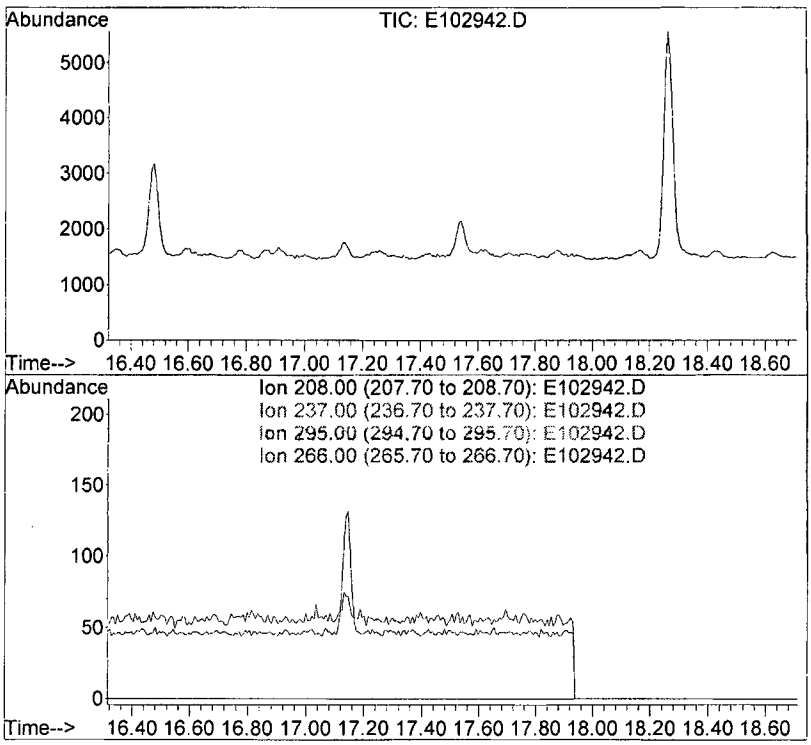
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102942.D
Acq On : 31 Oct 2010 5:03 pm
Operator : JAR
Sample : AE101015-18
Misc : BBNPP-CW22-C
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Nov 01 08:02:55 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



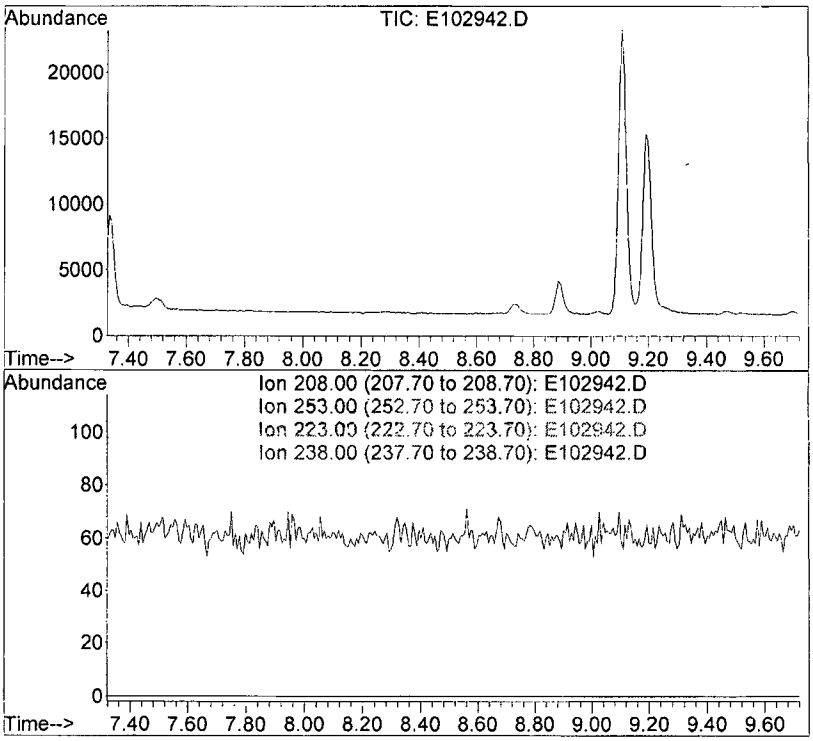


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102942.D
Acq: 31 Oct 2010 5:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

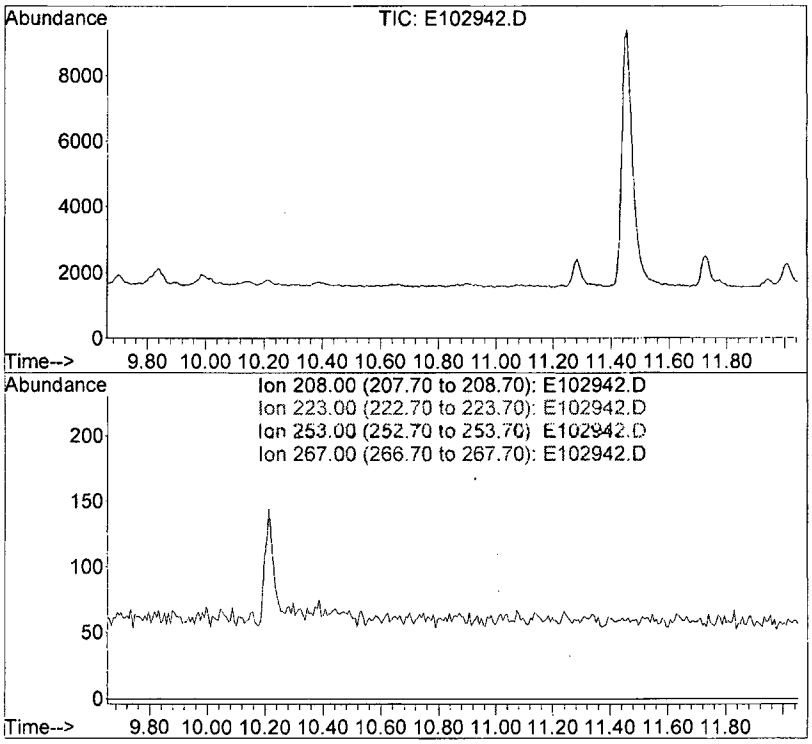


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102942.D
Acq: 31 Oct 2010 5:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

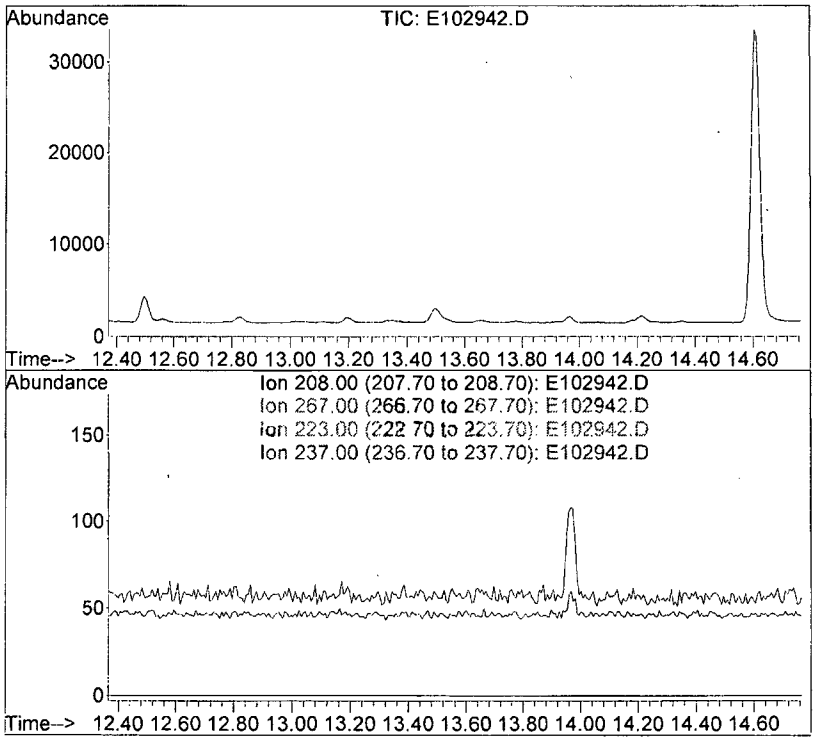


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102942.D
Acq: 31 Oct 2010 5:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

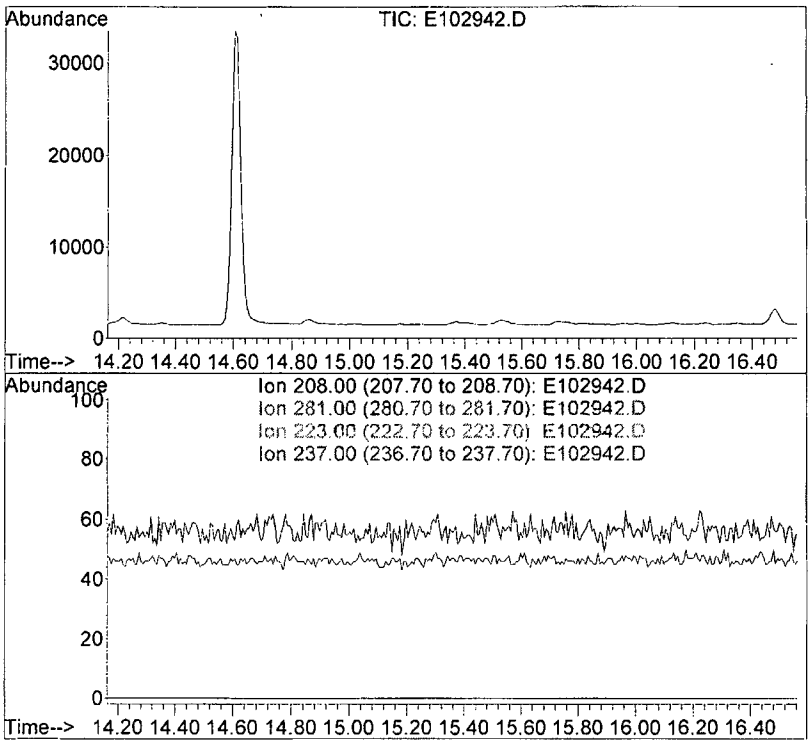


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102942.D
Acq: 31 Oct 2010 5:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102942.D
Acq: 31 Oct 2010 5:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102942.D
Acq On : 31 Oct 2010 5:03 pm
Operator : JAR
Sample : AE101015-18
Misc : BBNPP-CW22-C
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Nov 01 08:40:28 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	44394	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	29574	0.563	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	56.00%	
3) Toluene-d8	9.11	98	42089	0.748	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
4) Phenanthrene-d10	28.64	188	88660	0.956	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	96.00%	
5) Benzo(a)pyrene-d12	44.44	264	56567	1.024	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	102.00%	
6) Perylene-d12	44.79	264	61079	0.884	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	88.00%	

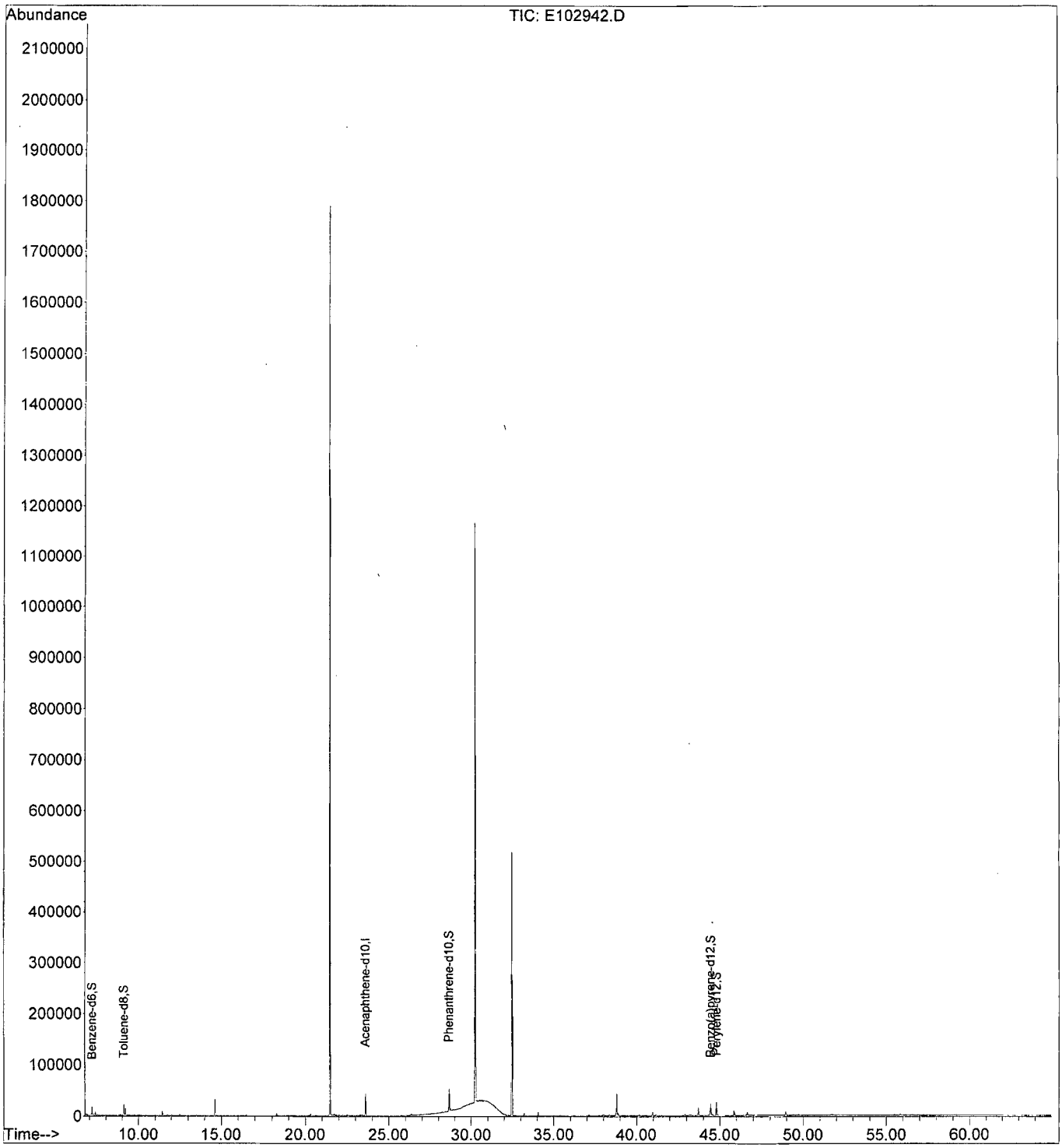
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102942.D
Acq On : 31 Oct 2010 5:03 pm
Operator : JAR
Sample : AE101015-18
Misc : BBNPP-CW22-C
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Nov 01 08:40:28 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102943.D
Acq On : 31 Oct 2010 6:19 pm
Operator : JAR
Sample : AE101015-19
Misc : BBNPP-C-EB
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Nov 01 08:02:57 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

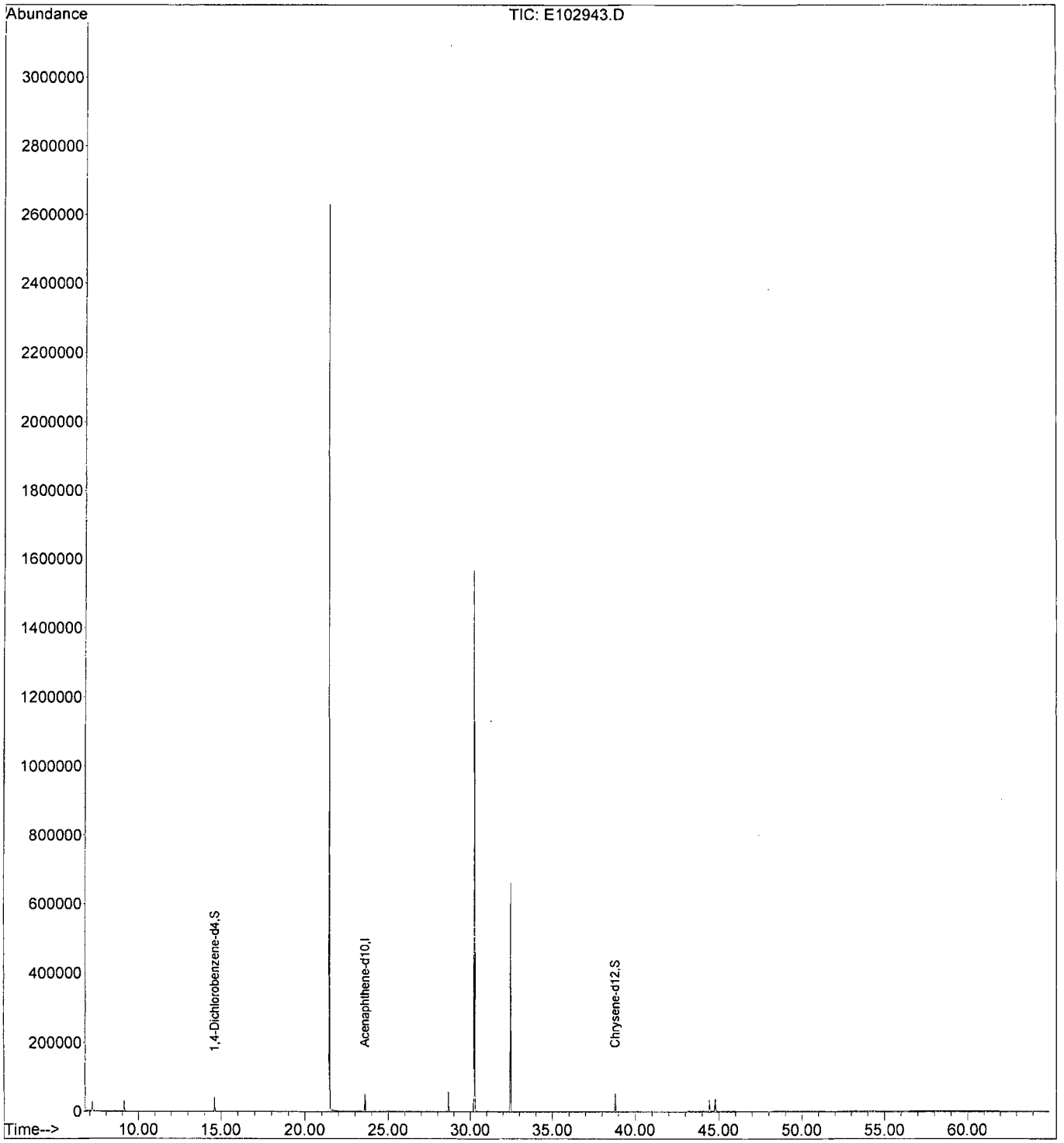
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	56850	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	30076	0.778	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	70.91%	
3) Chrysene-d12	38.79	240	90665	0.730	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

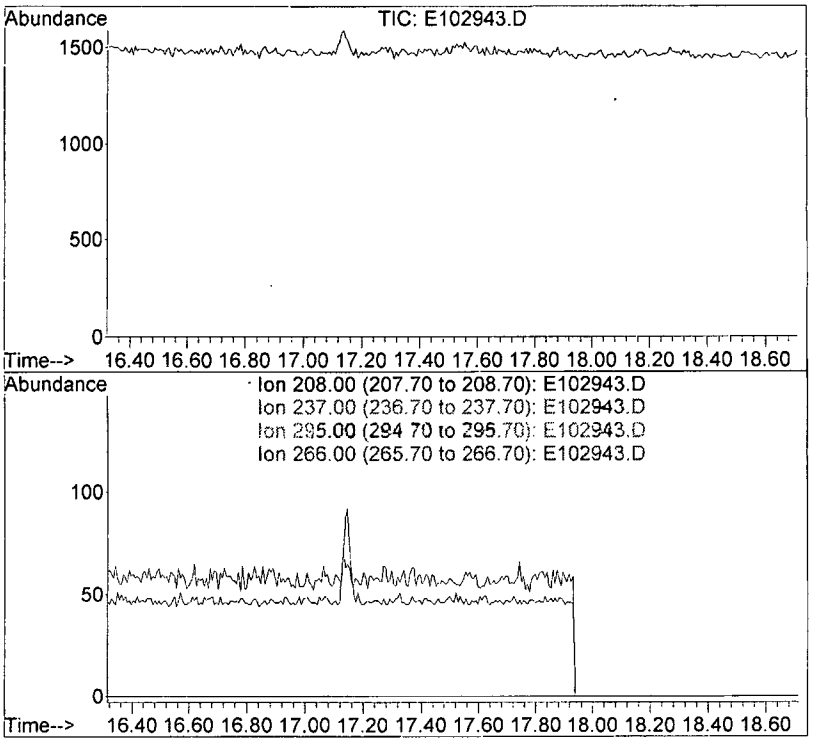
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102943.D
Acq On : 31 Oct 2010 6:19 pm
Operator : JAR
Sample : AE101015-19
Misc : BBNPP-C-EB
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Nov 01 08:02:57 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



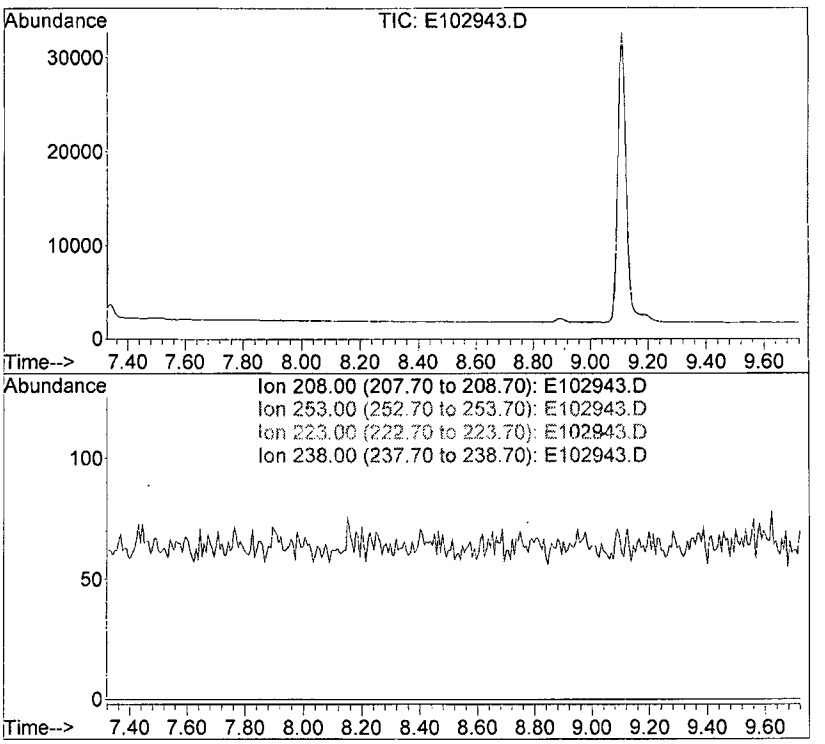


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102943.D
Acq: 31 Oct 2010 6:19 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

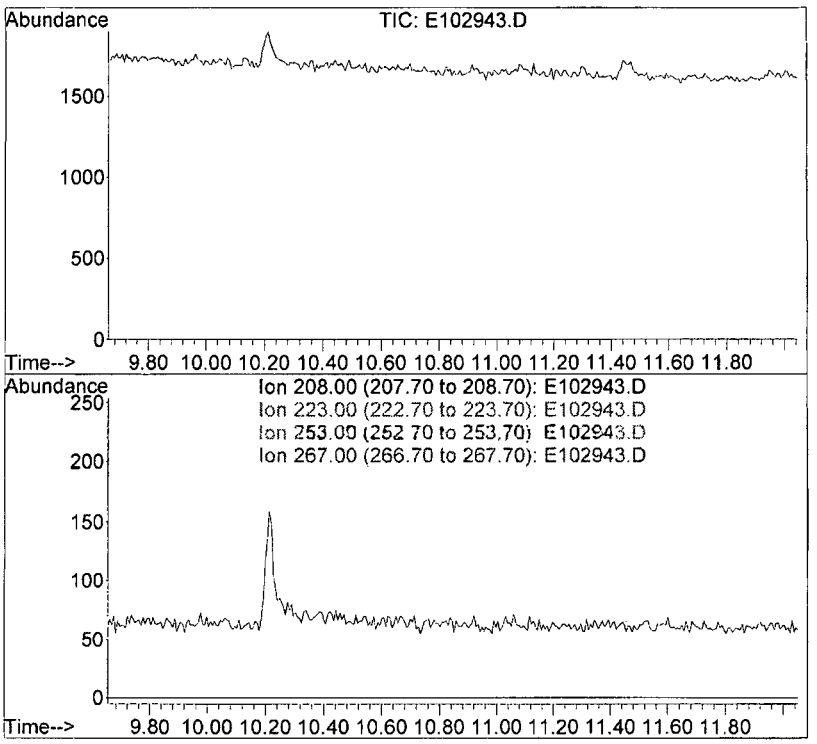


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102943.D
Acq: 31 Oct 2010 6:19 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

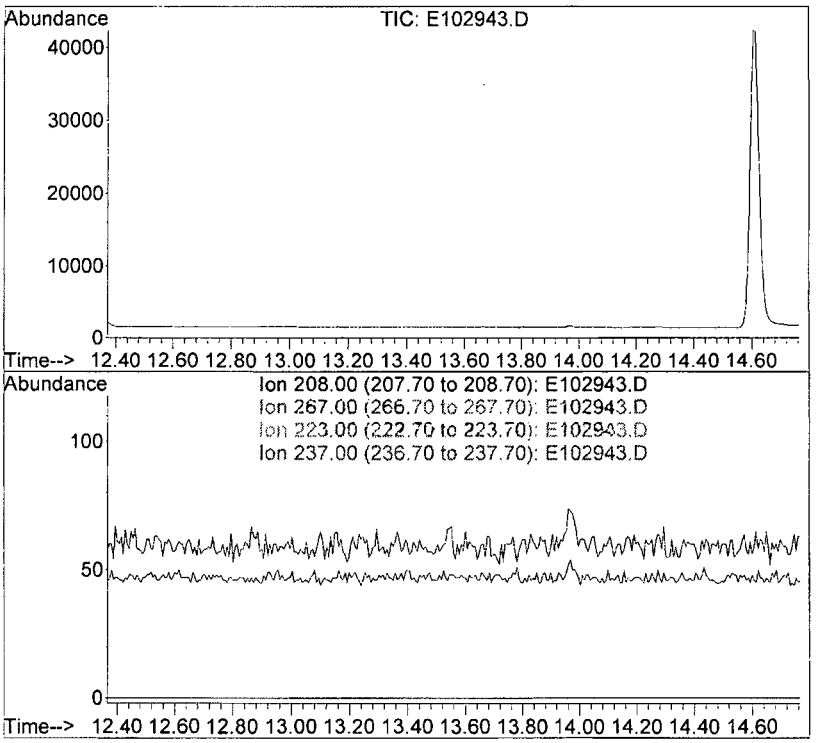


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102943.D
Acq: 31 Oct 2010 6:19 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

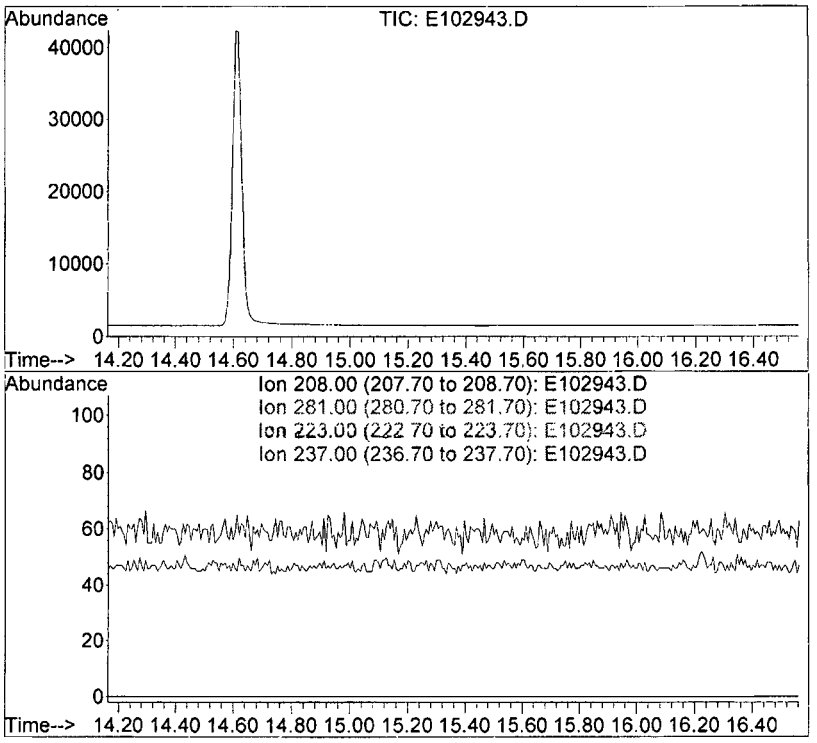


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102943.D
Acq: 31 Oct 2010 6:19 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102943.D
Acq: 31 Oct 2010 6:19 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102943.D
Acq On : 31 Oct 2010 6:19 pm
Operator : JAR
Sample : AE101015-19
Misc : BBNPP-C-EB
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Nov 01 08:40:30 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	56902	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.14	84	44951	0.667 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 67.00%	
3) Toluene-d8	9.11	98	61558	0.854 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 85.00%	
4) Phenanthrene-d10	28.64	188	118645	0.998 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 100.00%	
5) Benzo(a)pyrene-d12	44.44	264	81036	1.145 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 114.00%	
6) Perylene-d12	44.79	264	86253	0.974 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 97.00%	

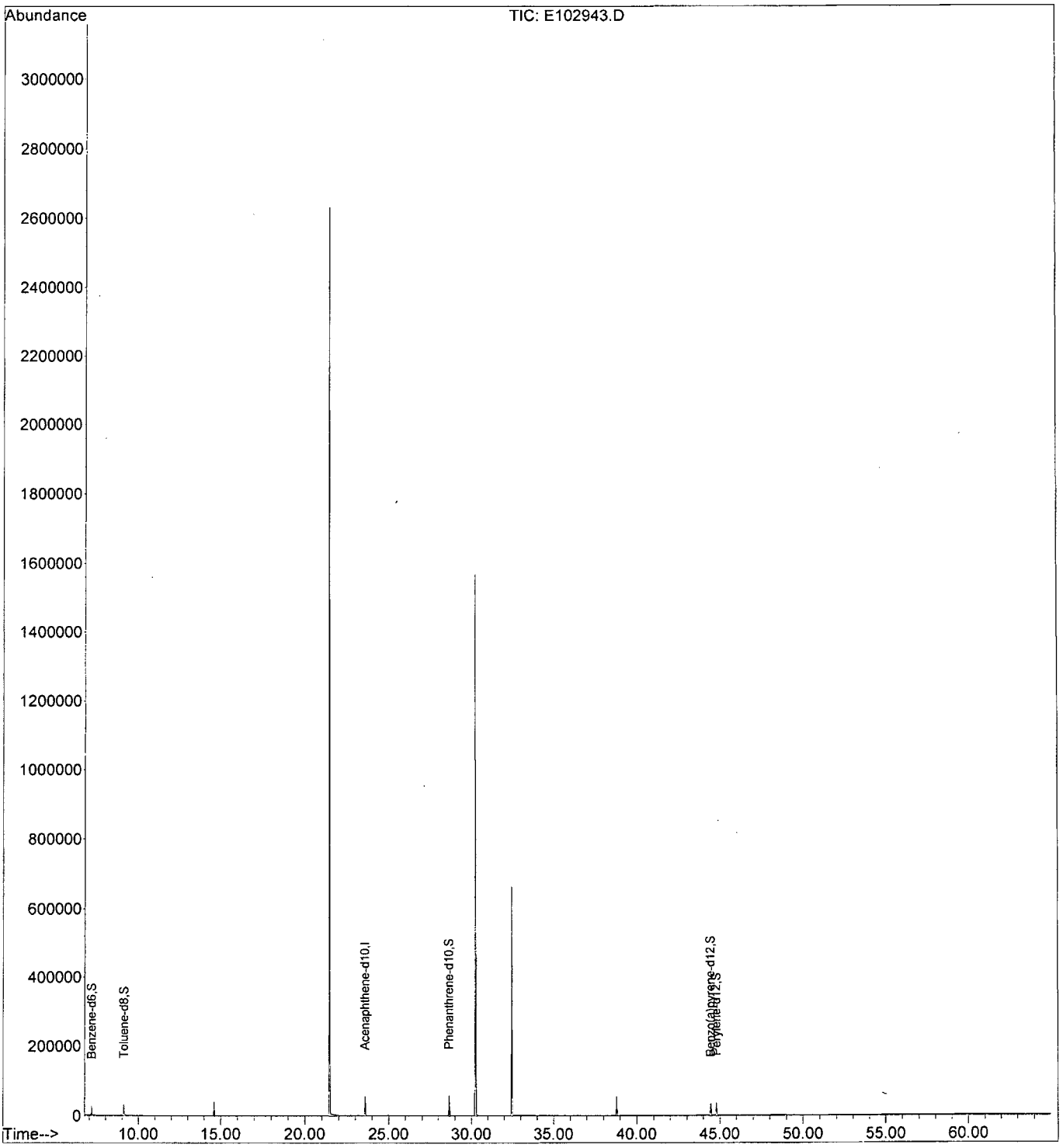
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102943.D
Acq On : 31 Oct 2010 6:19 pm
Operator : JAR
Sample : AE101015-19
Misc : BBNPP-C-EB
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Nov 01 08:40:30 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102944.D
Acq On : 31 Oct 2010 7:35 pm
Operator : JAR
Sample : AE101015-20
Misc : BBNPP-PB
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 01 08:02:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

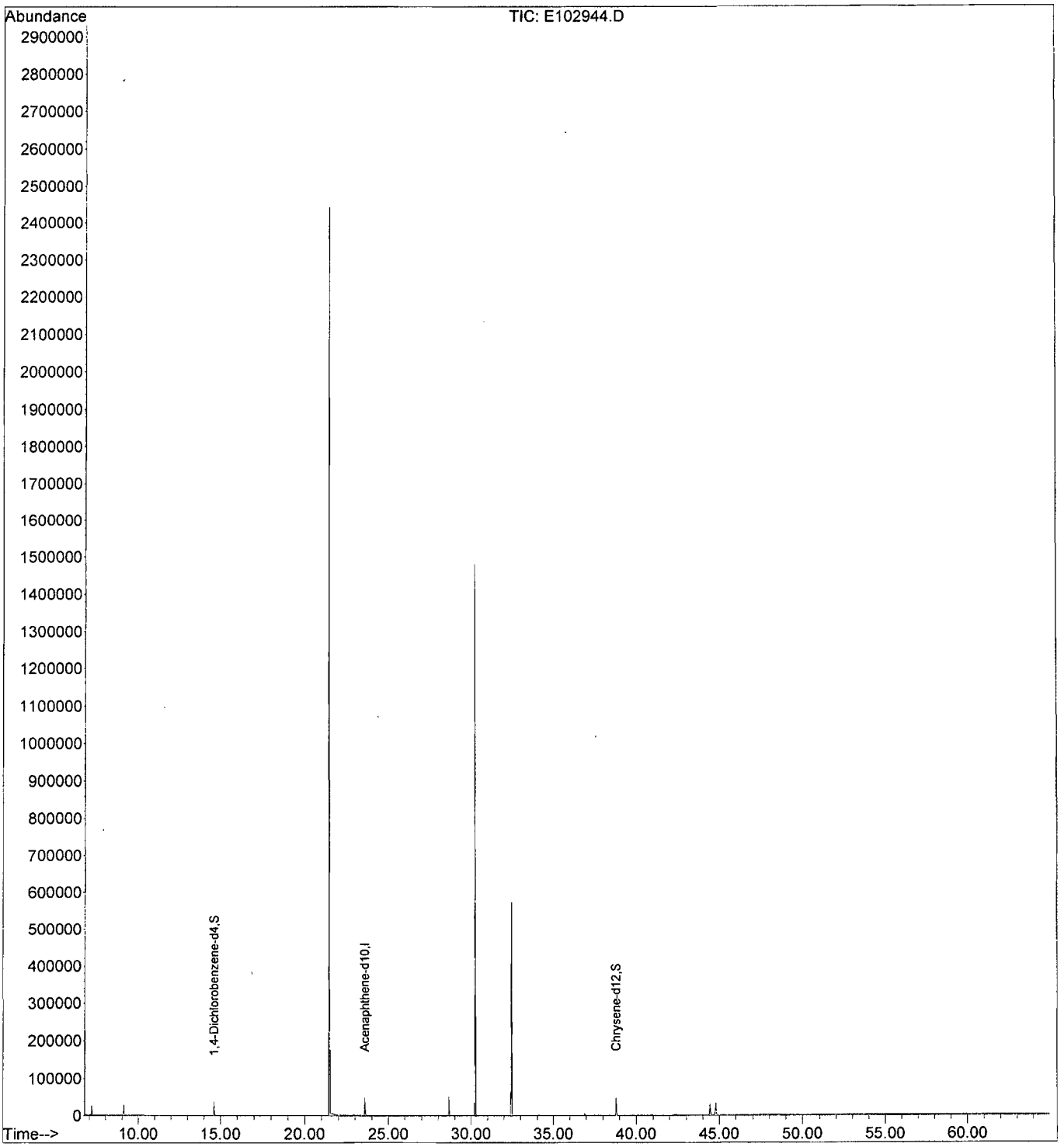
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49655	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26762	0.793	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.78	240	79628	0.734	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

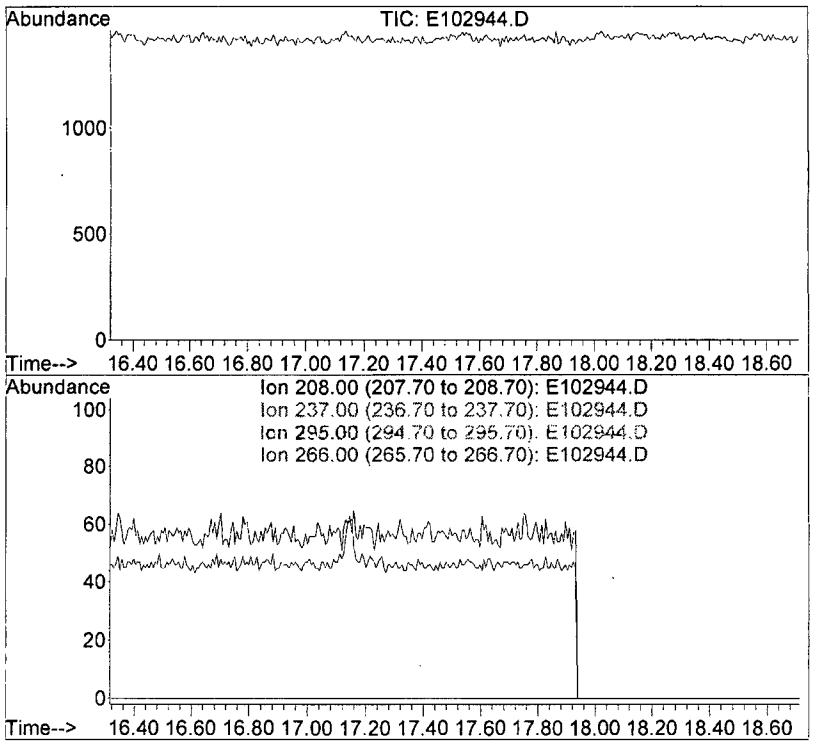
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102944.D
Acq On : 31 Oct 2010 7:35 pm
Operator : JAR
Sample : AE101015-20
Misc : BBNPP-PB
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 01 08:02:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



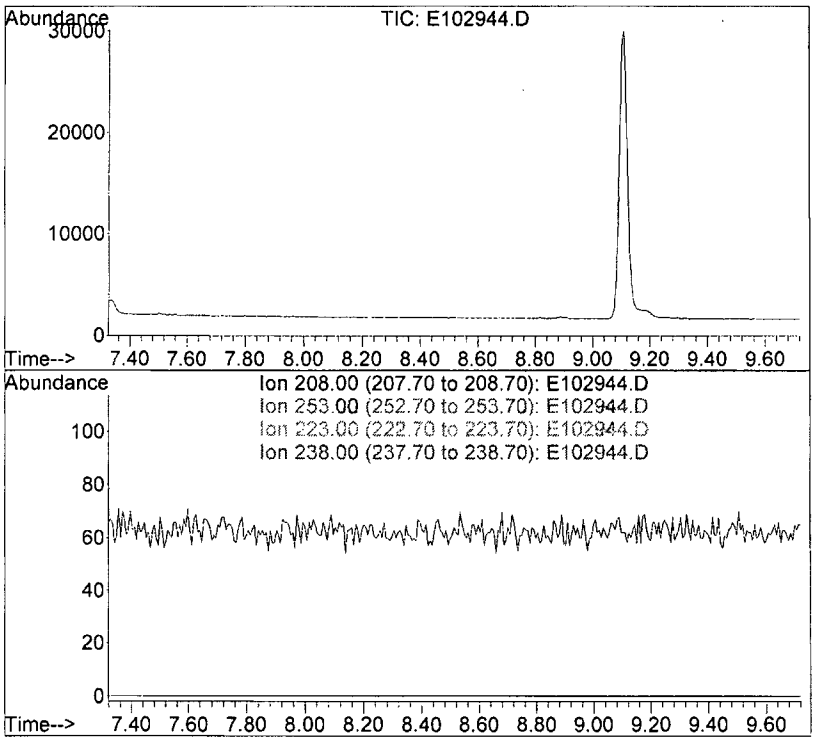


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102944.D
Acq: 31 Oct 2010 7:35 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

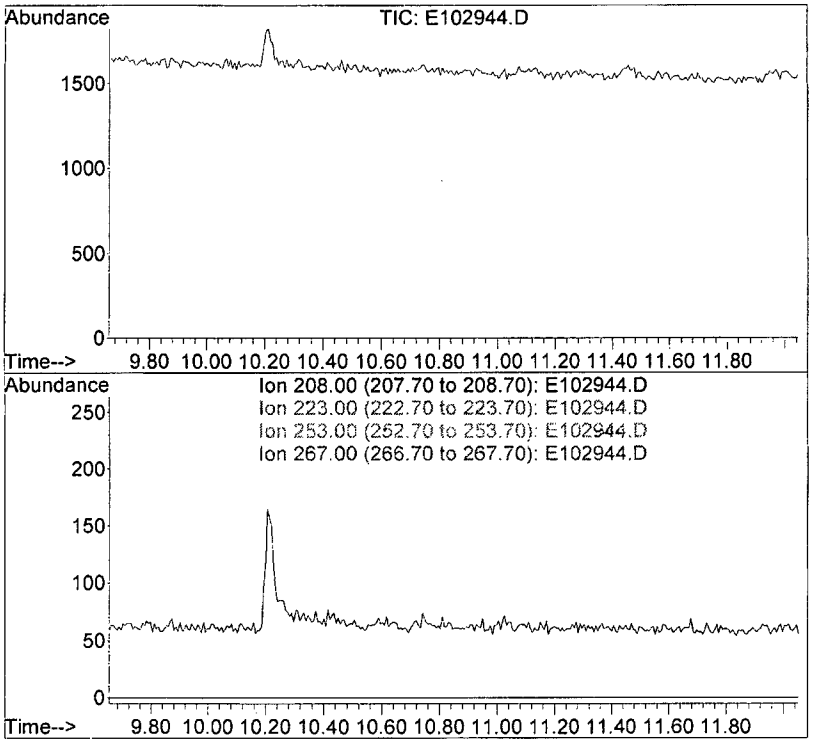


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102944.D
Acq: 31 Oct 2010 7:35 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

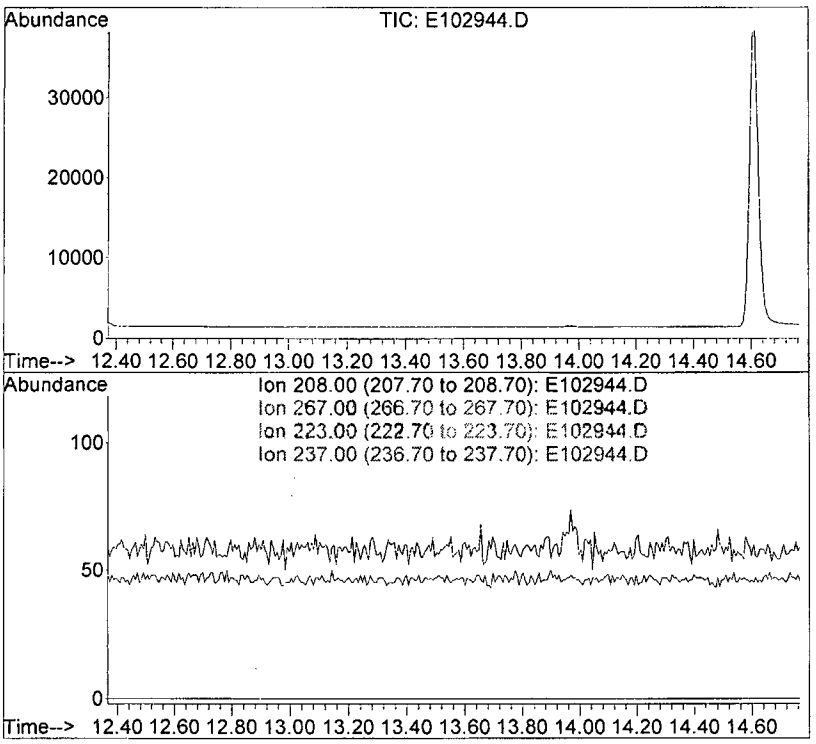


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102944.D
Acq: 31 Oct 2010 7:35 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

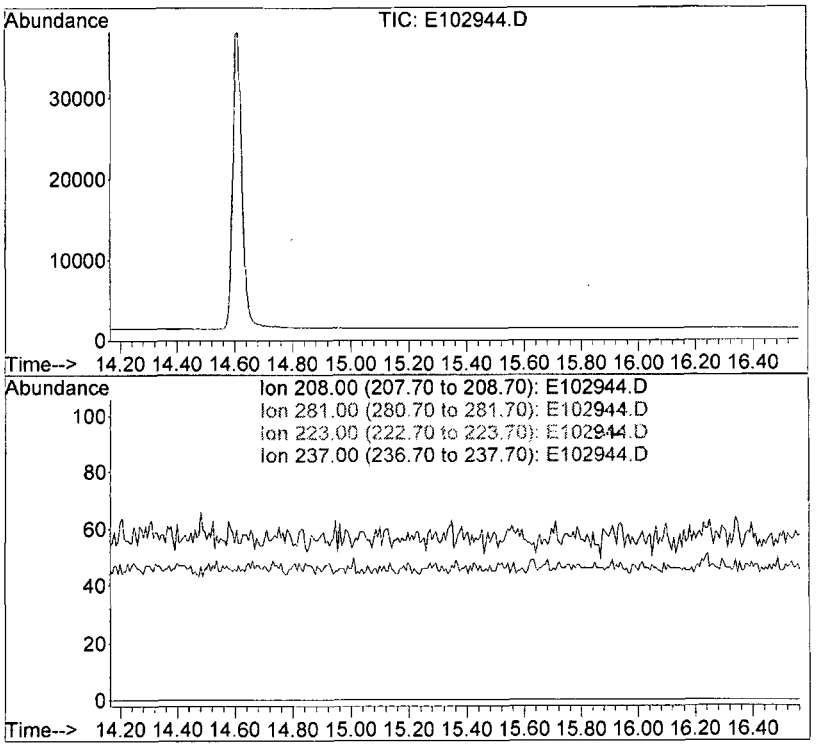


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102944.D
Acq: 31 Oct 2010 7:35 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102944.D
Acq: 31 Oct 2010 7:35 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102944.D
Acq On : 31 Oct 2010 7:35 pm
Operator : JAR
Sample : AE101015-20
Misc : BBNPP-PB
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 01 08:40:32 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49706	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.14	84	41545	0.706 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 71.00%	
3) Toluene-d8	9.11	98	57362	0.911 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 91.00%	
4) Phenanthrene-d10	28.65	188	105897	1.020 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 102.00%	
5) Benzo(a)pyrene-d12	44.44	264	72089	1.166 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 117.00%	
6) Perylene-d12	44.79	264	77678	1.004 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 100.00%	

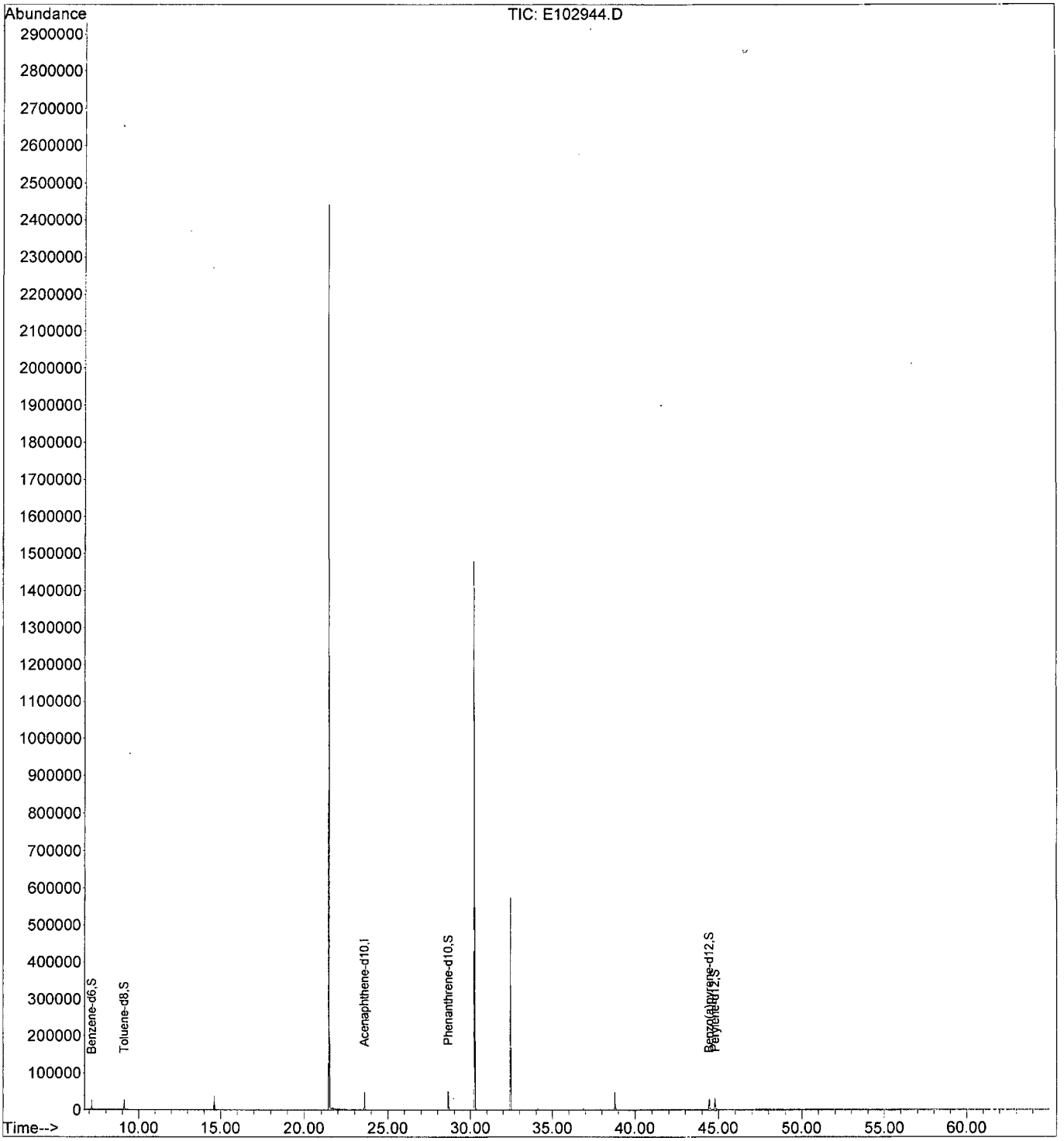
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102944.D
Acq On : 31 Oct 2010 7:35 pm
Operator : JAR
Sample : AE101015-20
Misc : BBNPP-PB
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Nov 01 08:40:32 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102945.D
Acq On : 31 Oct 2010 8:51 pm
Operator : JAR
Sample : AE101015-20MS
Misc : Matrix Spike of BBNPP-PB
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Nov 01 08:03:01 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

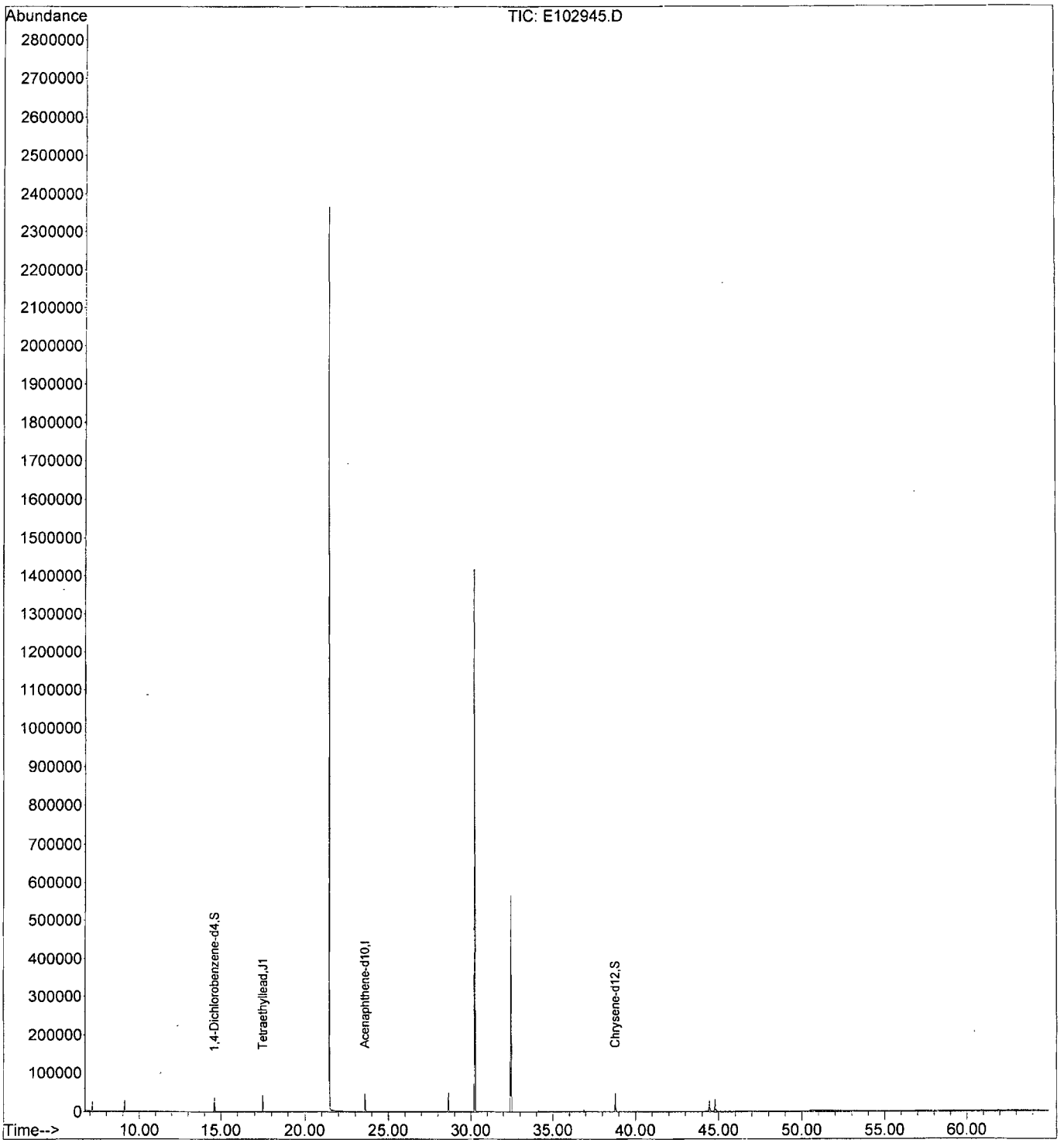
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	48652	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26901	0.813	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.78	240	77871	0.733	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	25000	1.909	ug/mL#	46
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

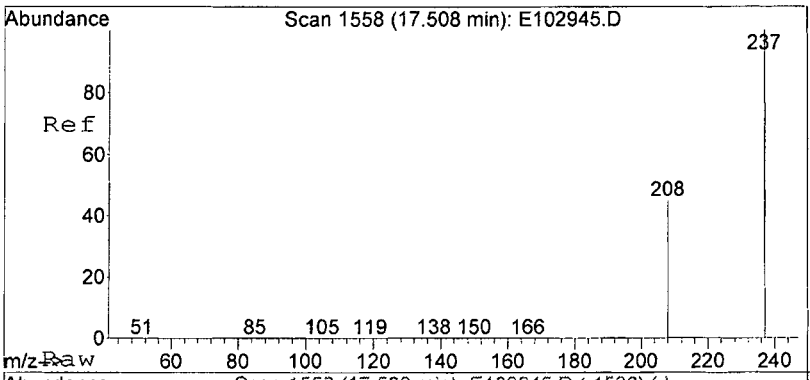
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102945.D
Acq On : 31 Oct 2010 8:51 pm
Operator : JAR
Sample : AE101015-20MS
Misc : Matrix Spike of BBNPP-PB
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Nov 01 08:03:01 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

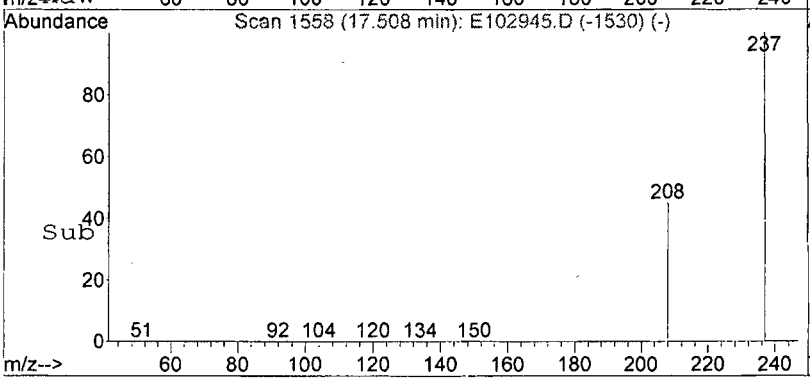


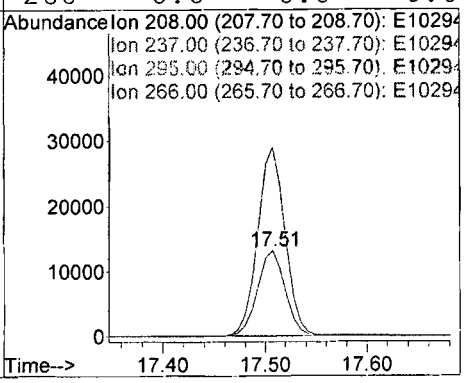


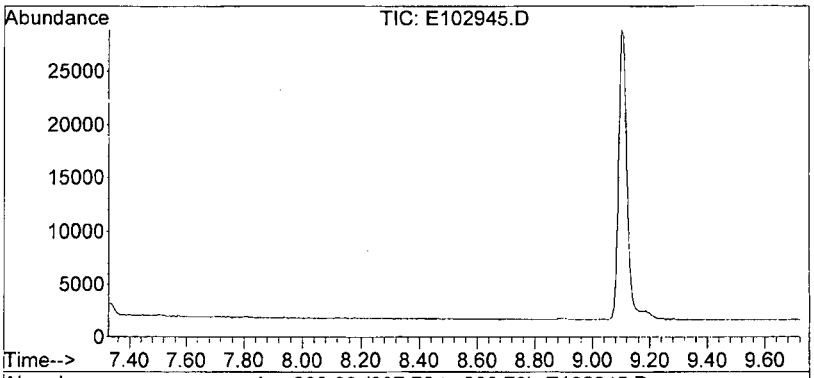
#4
Tetraethyllead
Concen: 1.909 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102945.D
Acq: 31 Oct 2010 8:51 pm

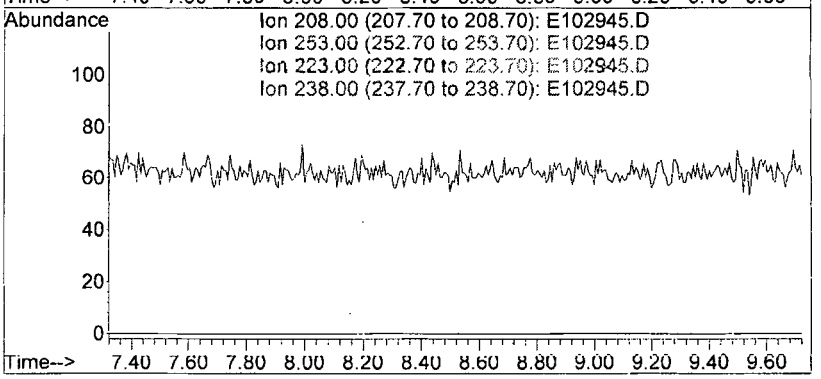
Tgt Ion:208 Resp: 25000

Ion	Ratio	Lower	Upper
208	100		
237	220.8	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







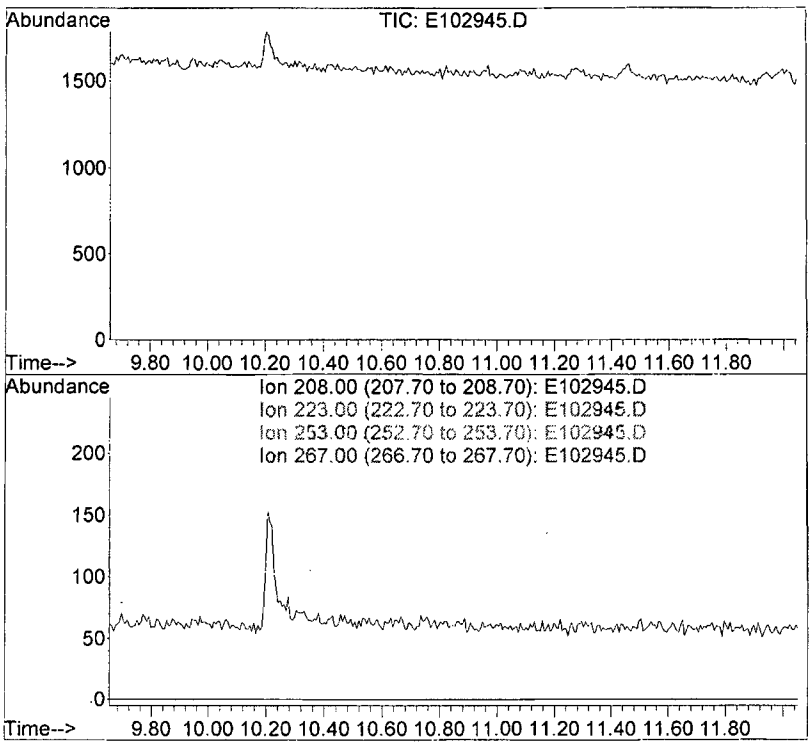


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102945.D
Acq: 31 Oct 2010 8:51 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

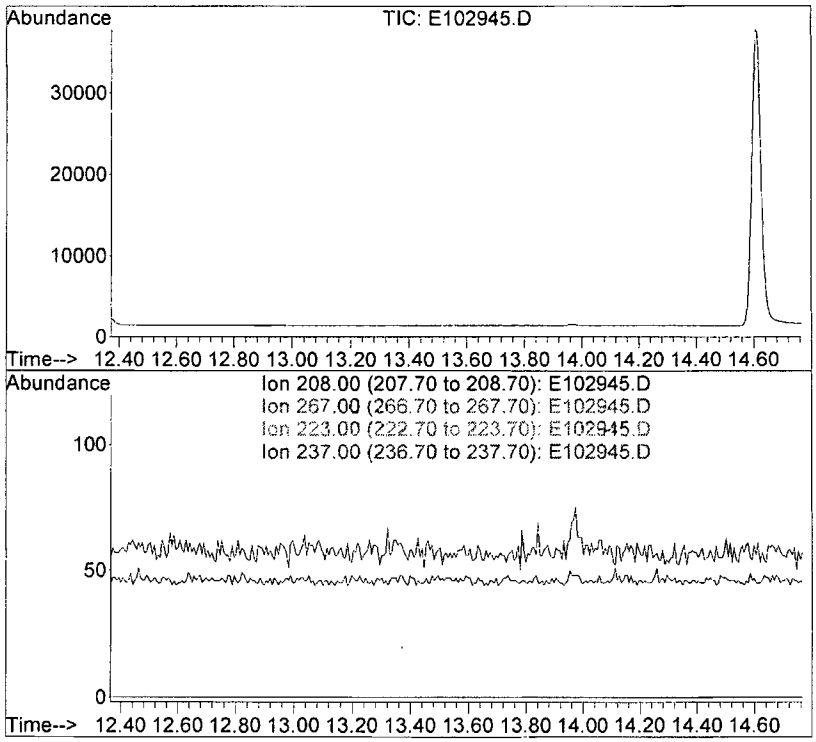


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102945.D
Acq: 31 Oct 2010 8:51 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

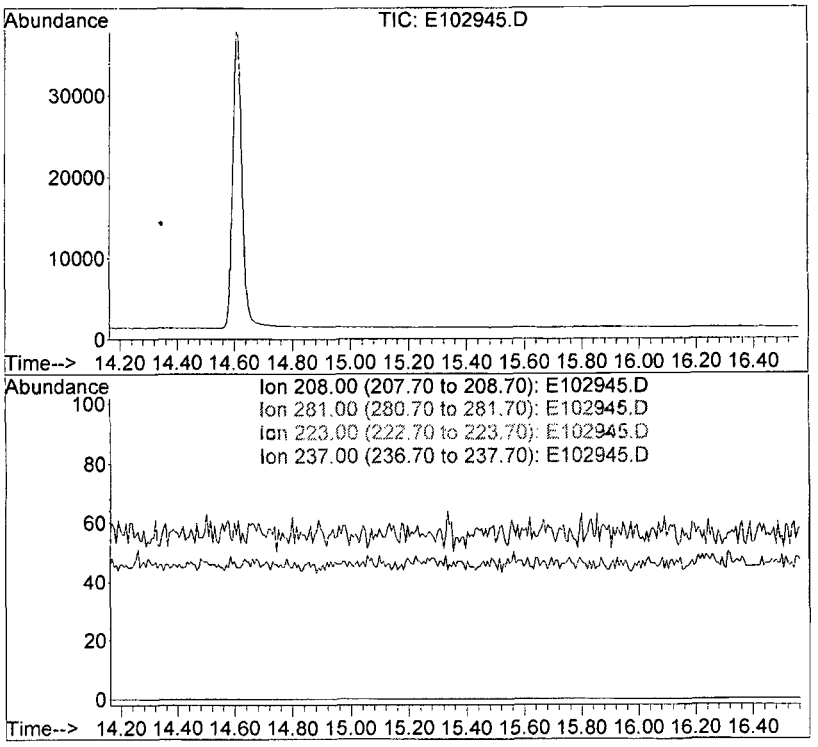


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102945.D
Acq: 31 Oct 2010 8:51 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102945.D
Acq: 31 Oct 2010 8:51 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102945.D
Acq On : 31 Oct 2010 8:51 pm
Operator : JAR
Sample : AE101015-20MS
Misc : Matrix Spike of BBNPP-PB
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Nov 01 08:40:34 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	48652	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.13	84	41580	0.722 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 72.00%	
3) Toluene-d8	9.10	98	55656	0.903 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 90.00%	
4) Phenanthrene-d10	28.64	188	101523	0.999 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 100.00%	
5) Benzo(a)pyrene-d12	44.44	264	67051	1.108 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 111.00%	
6) Perylene-d12	44.79	264	73103	0.965 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 97.00%	

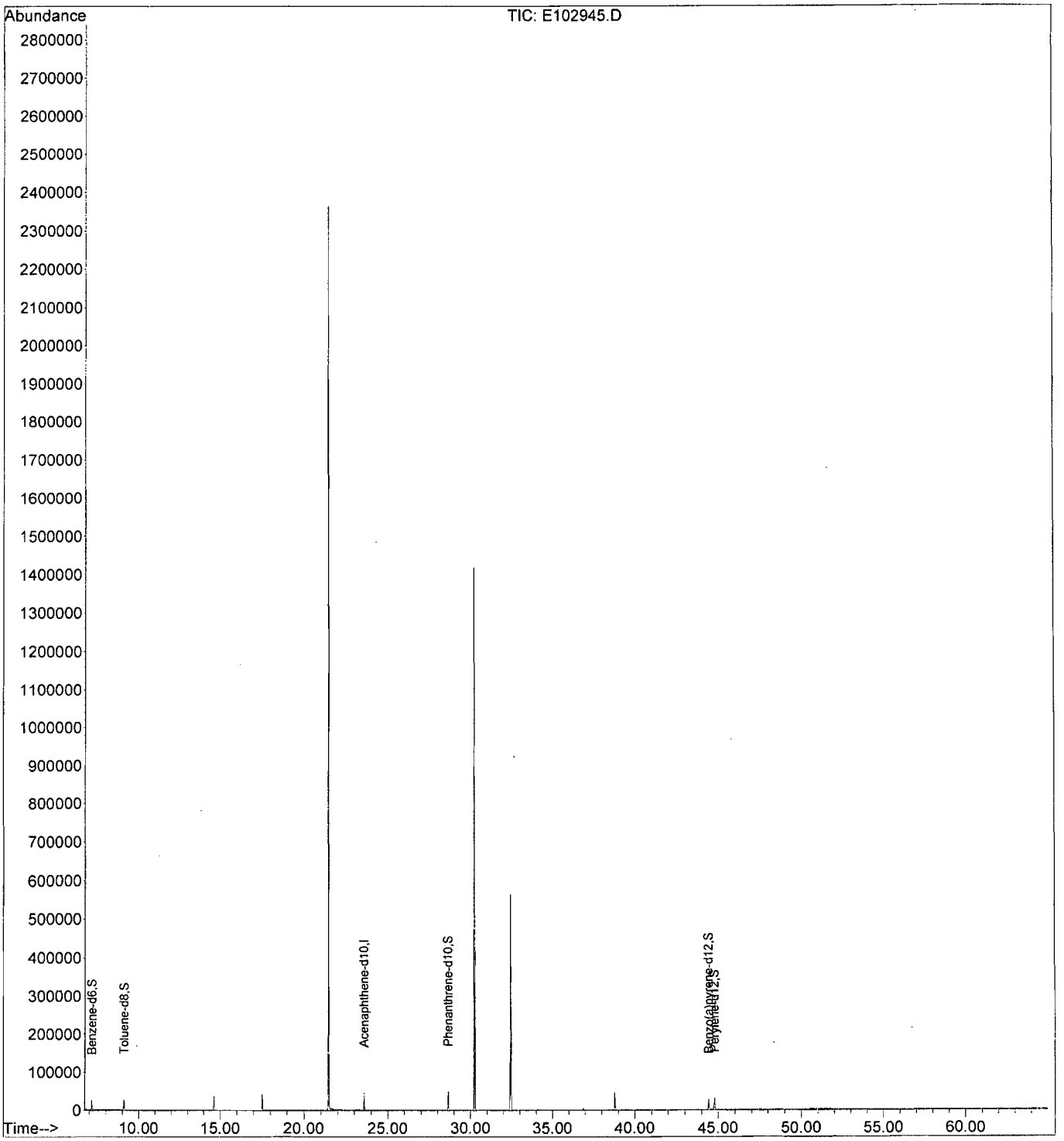
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102945.D
Acq On : 31 Oct 2010 8:51 pm
Operator : JAR
Sample : AE101015-20MS
Misc : Matrix Spike of BBNPP-PB
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Nov 01 08:40:34 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102949.D
Acq On : 1 Nov 2010 1:51 am
Operator : JAR
Sample : AE101015-20MSD
Misc : Matrix Spike Duplicate of BBNPP-PB
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Nov 01 08:03:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

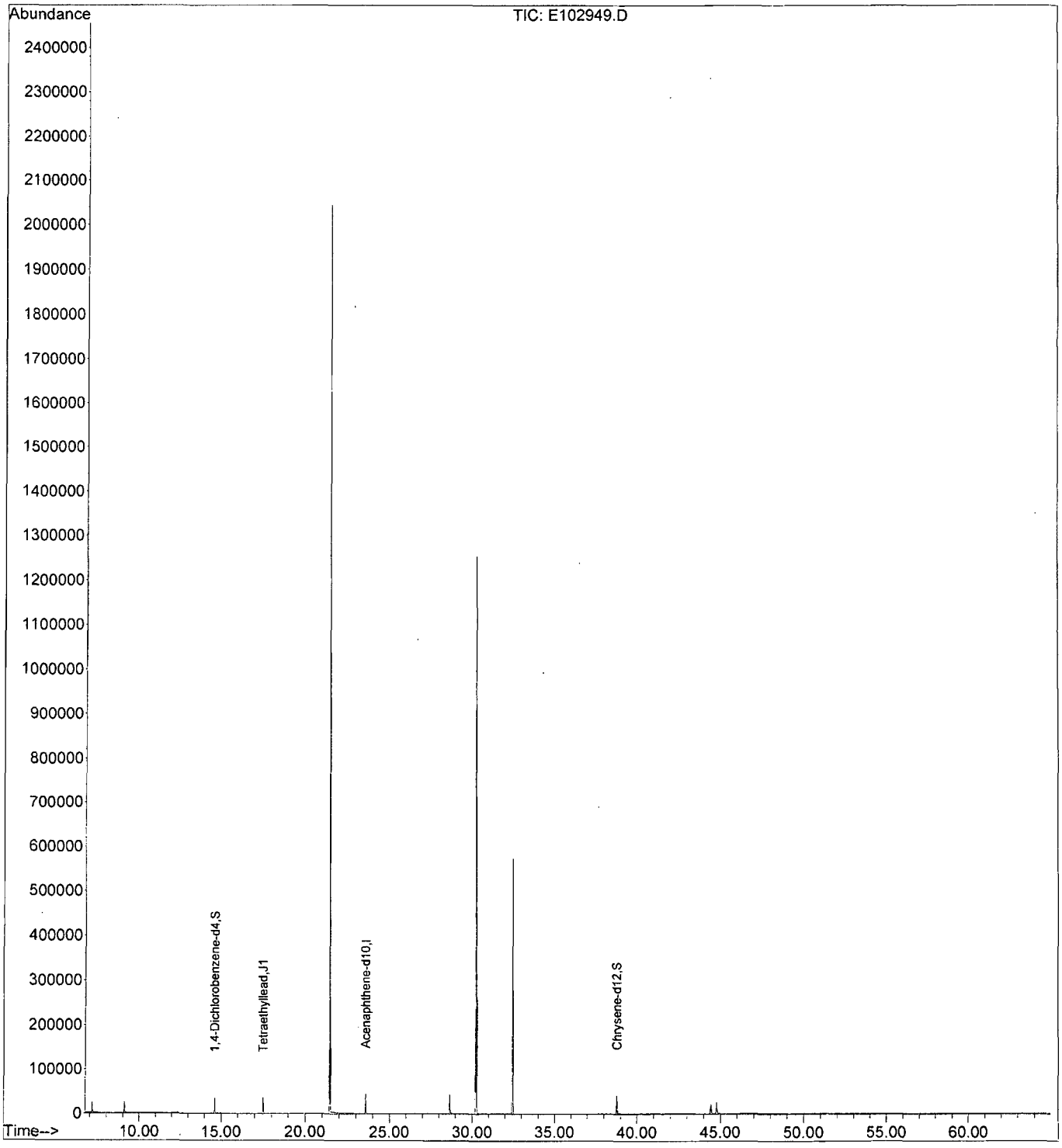
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	46086	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	25785	0.823	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	74.55%	
3) Chrysene-d12	38.78	240	70039	0.696	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	63.64%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	21266	1.717	ug/mL#	48
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

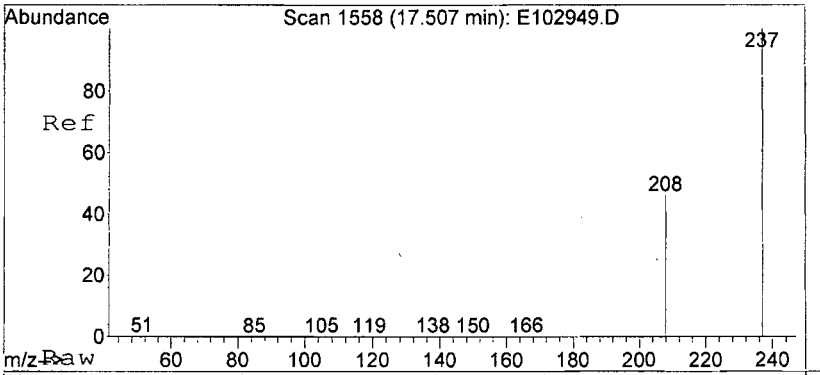
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102949.D
Acq On : 1 Nov 2010 1:51 am
Operator : JAR
Sample : AE101015-20MSD
Misc : Matrix Spike Duplicate of BBNPP-PB
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Nov 01 08:03:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

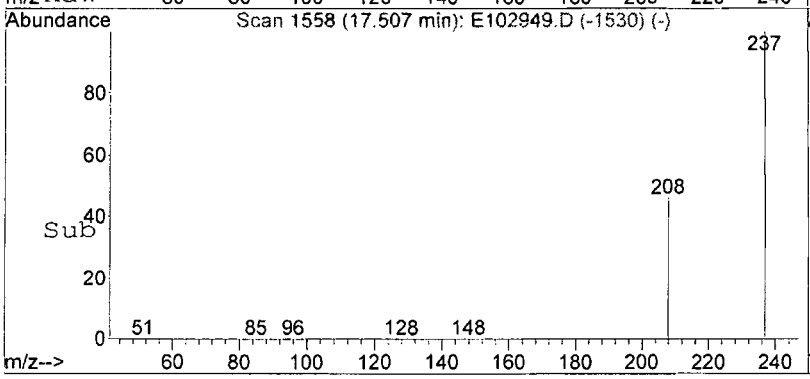


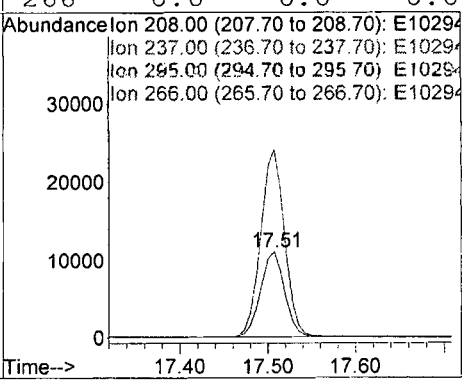


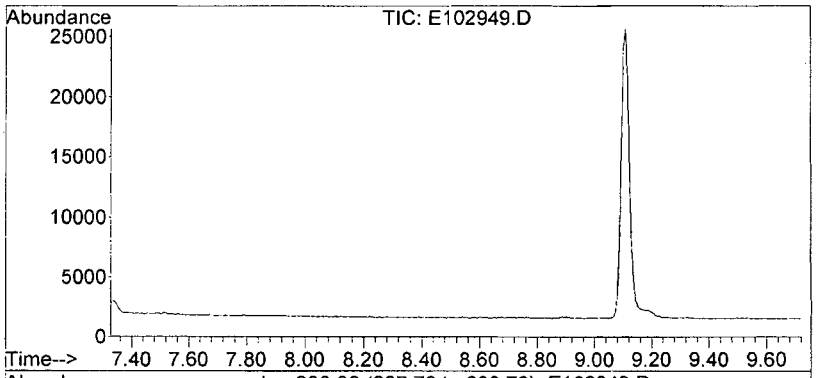
#4
Tetraethyllead
Concen: 1.717 ug/mL
RT: 17.51 min Scan# 1558
Delta R.T. -0.01 min
Lab File: E102949.D
Acq: 1 Nov 2010 1:51 am

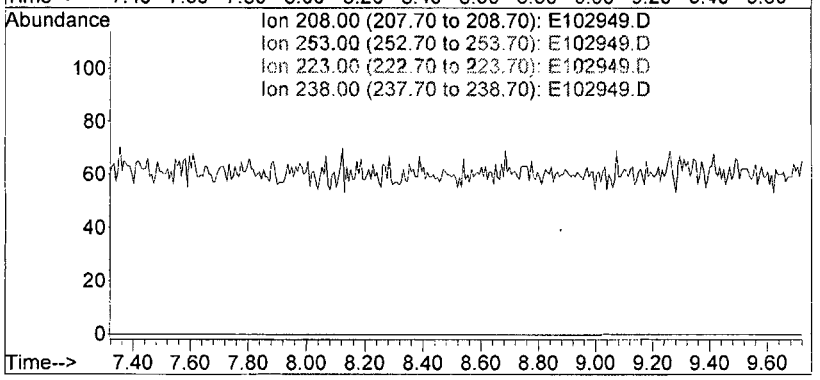
Tgt Ion:208 Resp: 21266

Ion	Ratio	Lower	Upper
208	100		
237	218.7	121.6	182.4#
295	0.0	0.0	0.0
266	0.0	0.0	0.0







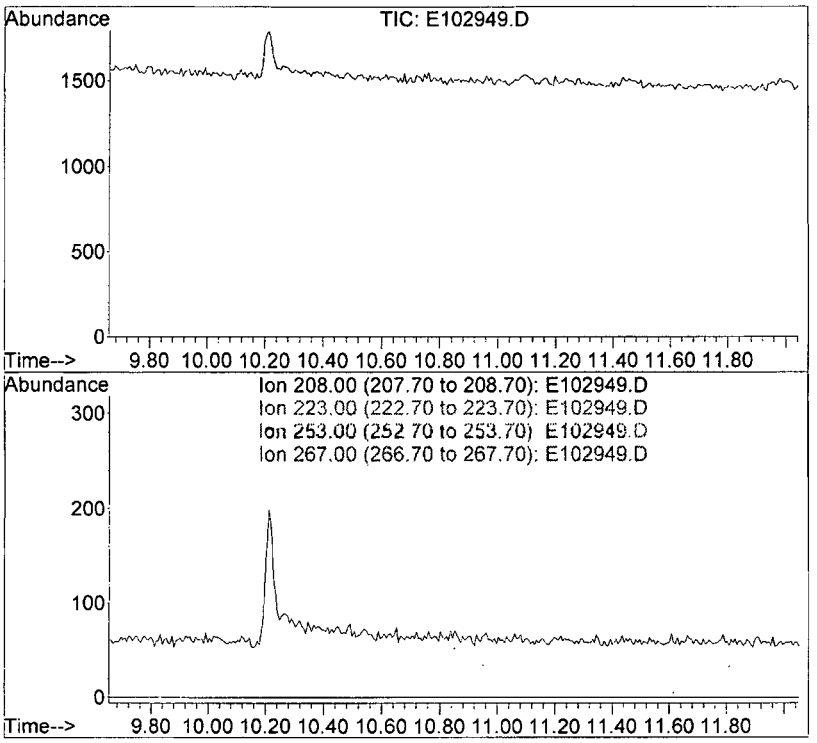


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102949.D
Acq: 1 Nov 2010 1:51 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

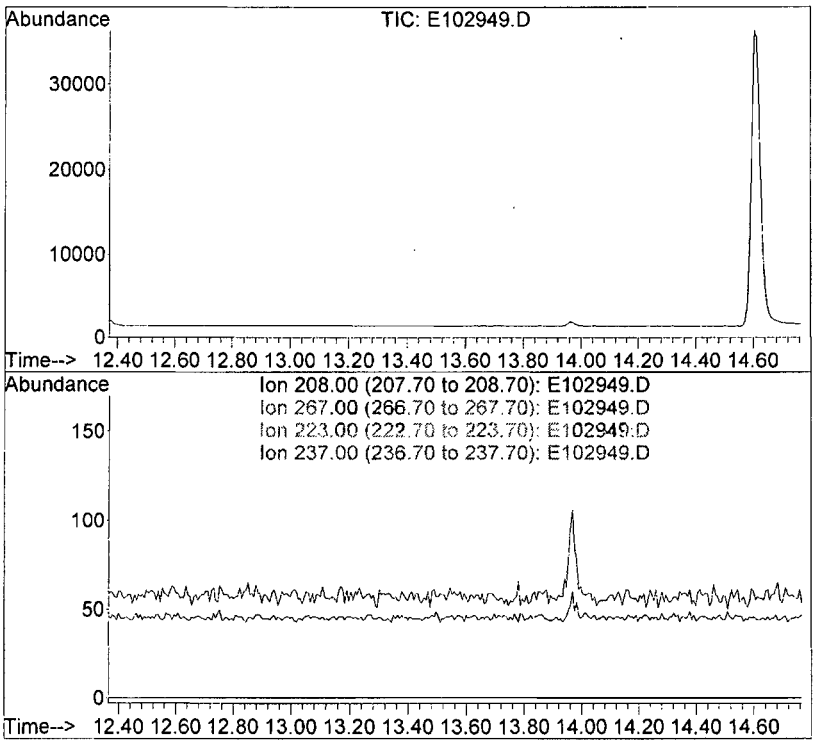


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102949.D
Acq: 1 Nov 2010 1:51 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

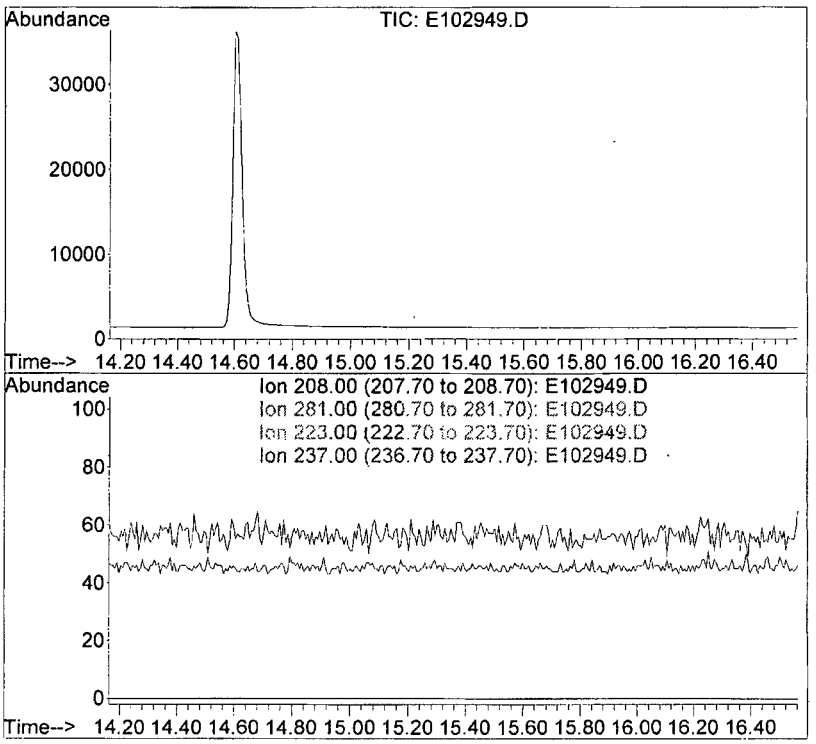


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102949.D
Acq: 1 Nov 2010 1:51 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102949.D
Acq: 1 Nov 2010 1:51 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102949.D
Acq On : 1 Nov 2010 1:51 am
Operator : JAR
Sample : AE101015-20MSD
Misc : Matrix Spike Duplicate of BBNPP-PB
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Nov 01 08:40:39 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	46111	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	38301	0.701	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	70.00%	
3) Toluene-d8	9.11	98	49003	0.839	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
4) Phenanthrene-d10	28.64	188	87396	0.908	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	91.00%	
5) Benzo(a)pyrene-d12	44.44	264	51598	0.899	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	90.00%	
6) Perylene-d12	44.78	264	57665	0.803	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	80.00%	

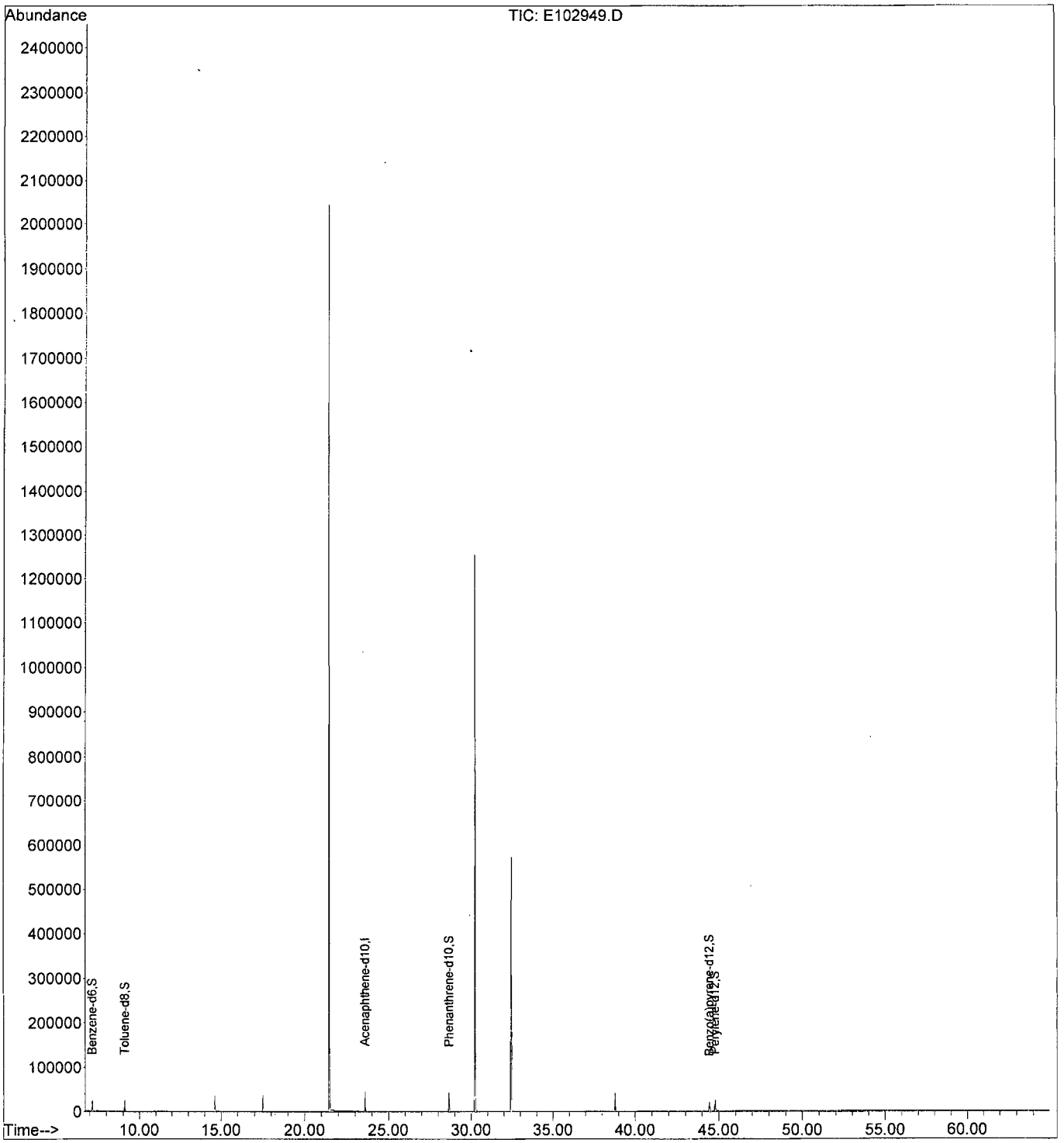
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102949.D
Acq On : 1 Nov 2010 1:51 am
Operator : JAR
Sample : AE101015-20MSD
Misc : Matrix Spike Duplicate of BBNPP-PB
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Nov 01 08:40:39 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102950.D
Acq On : 1 Nov 2010 3:06 am
Operator : JAR
Sample : AE101015-21
Misc : BBNPP-CW4-C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 01 08:03:08 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

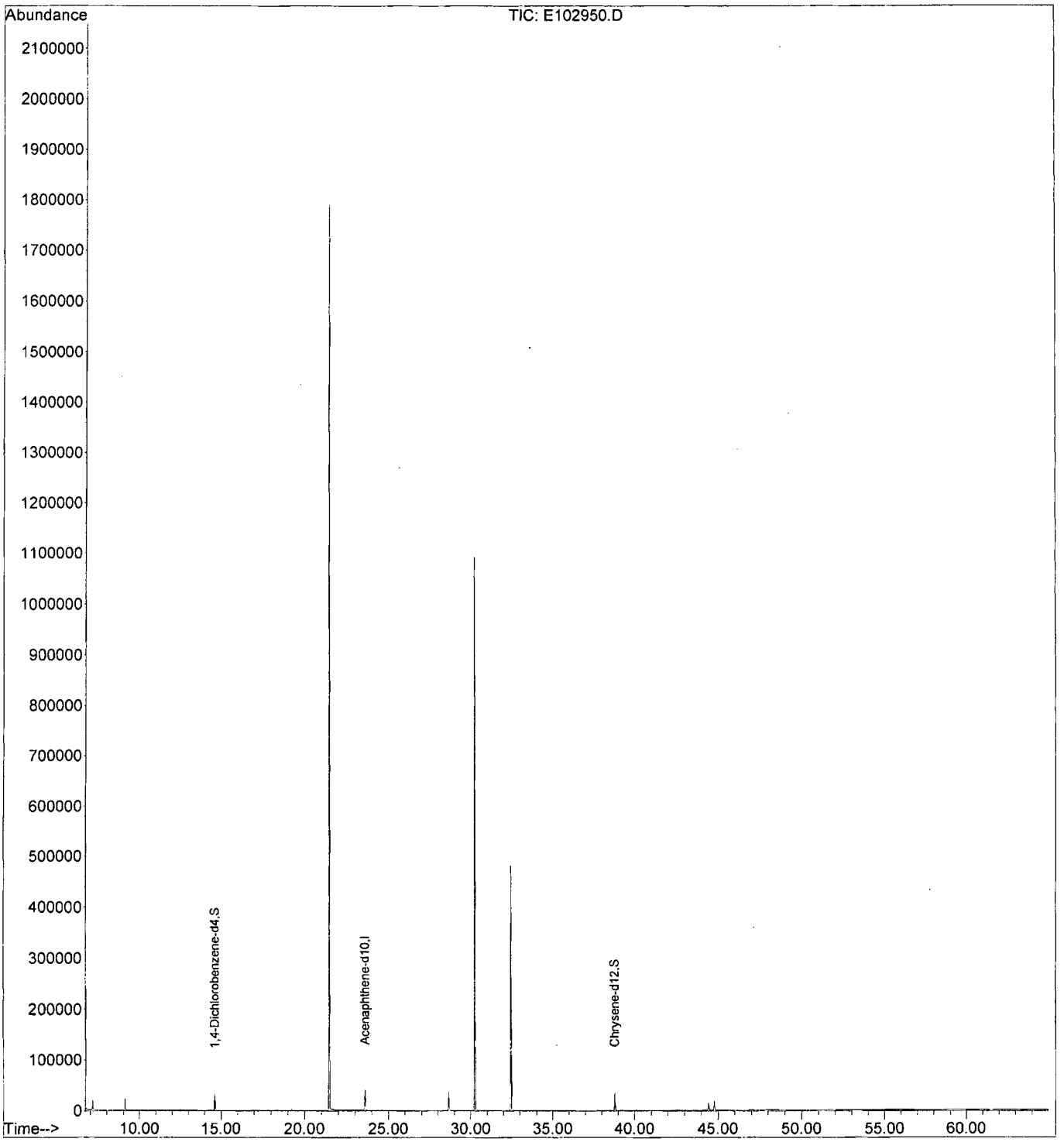
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41267	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22945	0.818	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	74.55%	
3) Chrysene-d12	38.78	240	61676	0.684	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	61.82%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

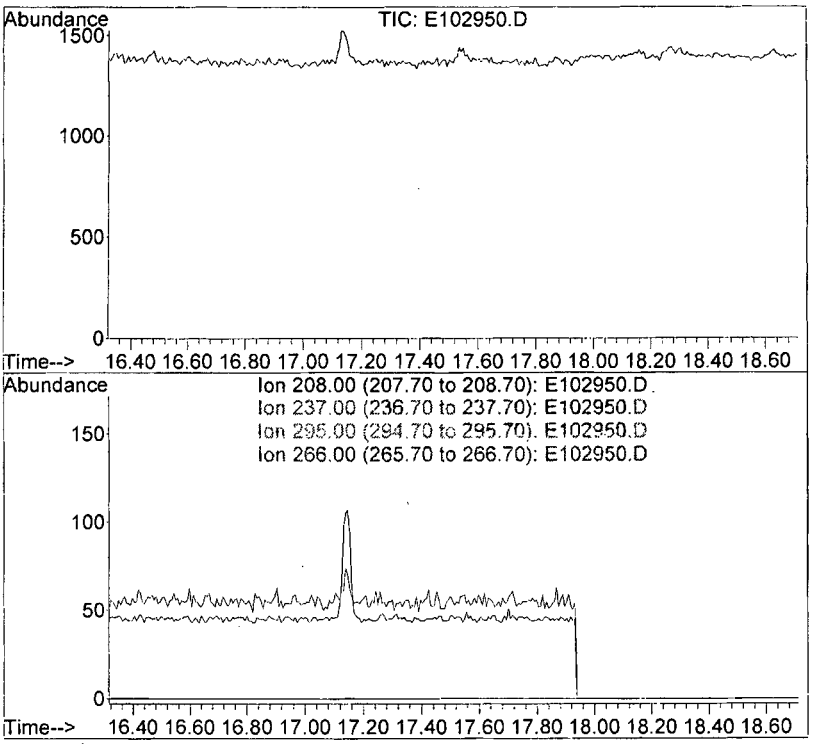
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102950.D
Acq On : 1 Nov 2010 3:06 am
Operator : JAR
Sample : AE101015-21
Misc : BBNPP-CW4-C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 01 08:03:08 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



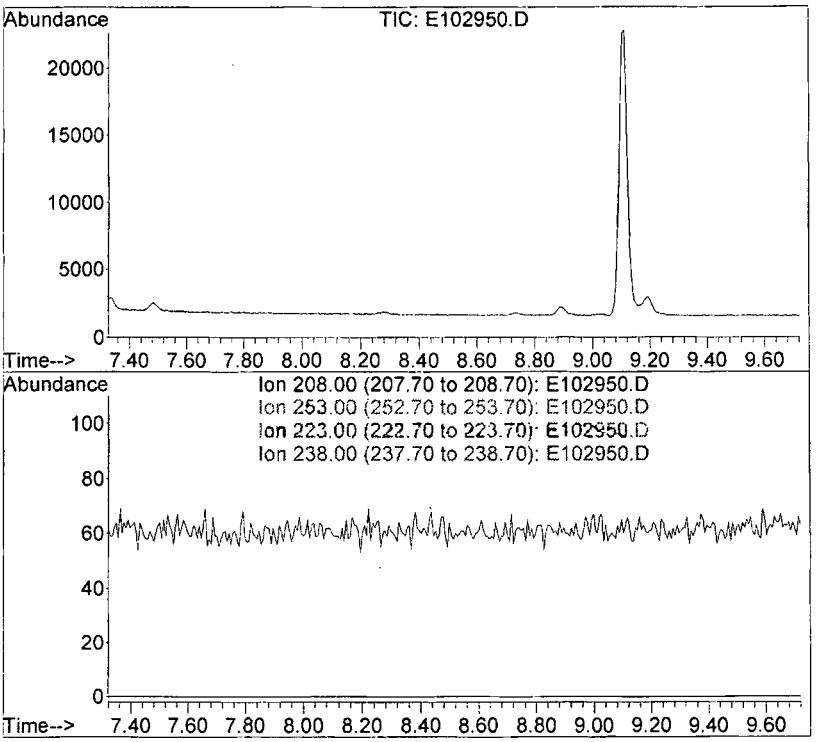


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102950.D
Acq: 1 Nov 2010 3:06 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

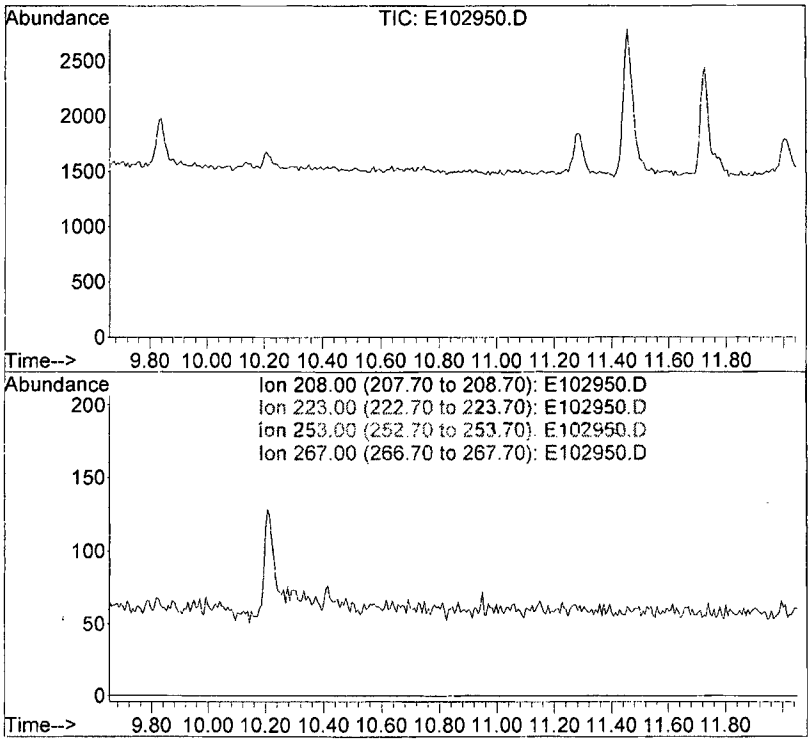


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102950.D
Acq: 1 Nov 2010 3:06 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

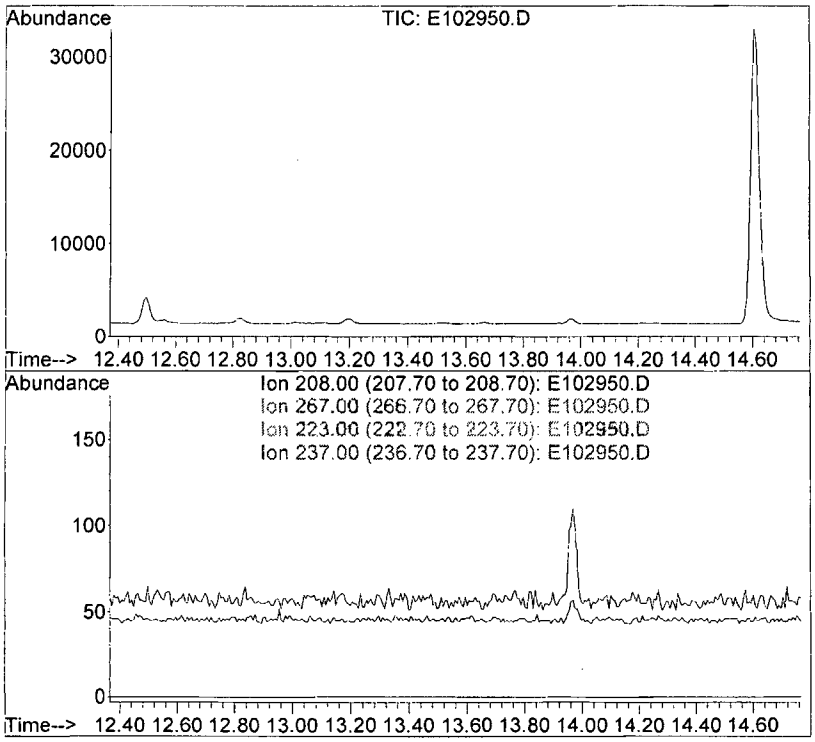


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102950.D
Acq: 1 Nov 2010 3:06 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

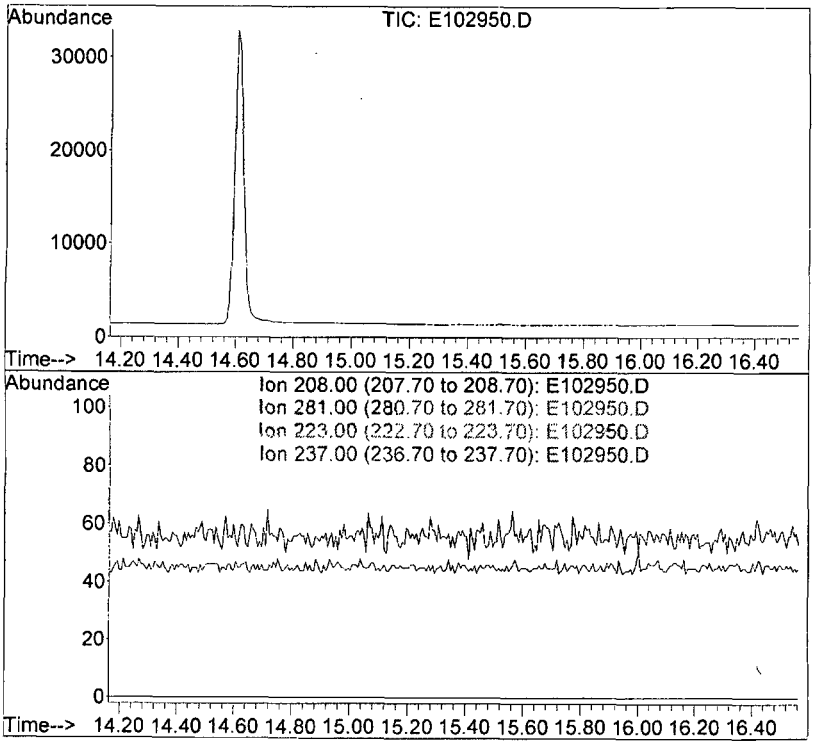


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102950.D
Acq: 1 Nov 2010 3:06 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102950.D
Acq: 1 Nov 2010 3:06 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102950.D
Acq On : 1 Nov 2010 3:06 am
Operator : JAR
Sample : AE101015-21
Misc : BBNPP-CW4-C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 01 08:40:41 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41307	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	30023	0.614	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	61.00%	
3) Toluene-d8	9.11	98	43763	0.836	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
4) Phenanthrene-d10	28.65	188	78197	0.907	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	91.00%	
5) Benzo(a)pyrene-d12	44.44	264	36523	0.711	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	71.00%	
6) Perylene-d12	44.78	264	42886	0.667	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	67.00%	

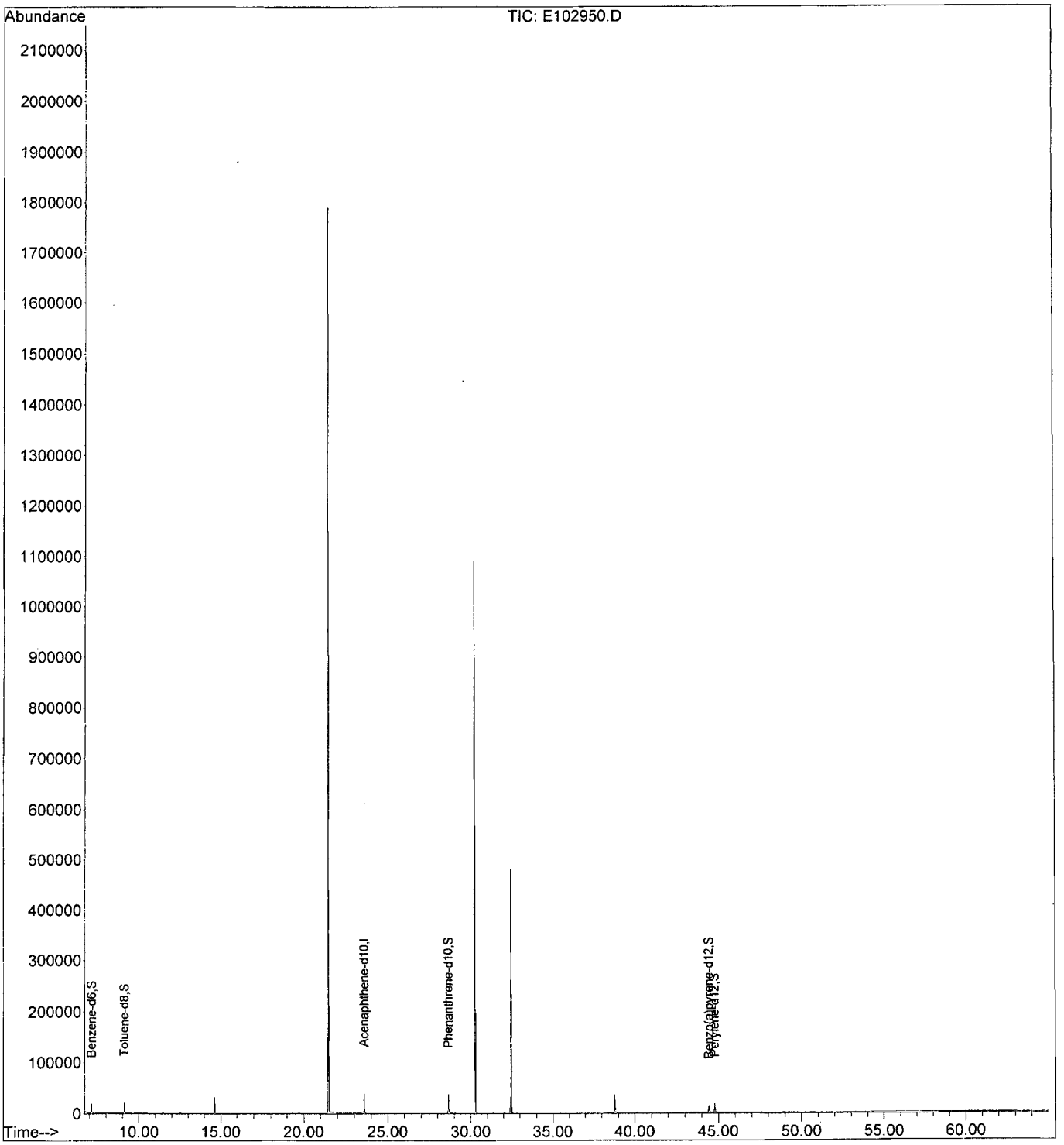
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102950.D
Acq On : 1 Nov 2010 3:06 am
Operator : JAR
Sample : AE101015-21
Misc : BBNPP-CW4-C
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Nov 01 08:40:41 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102951.D
Acq On : 1 Nov 2010 4:20 am
Operator : JAR
Sample : AE101015-22
Misc : BBNPP-CW7-C
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 01 10:04:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

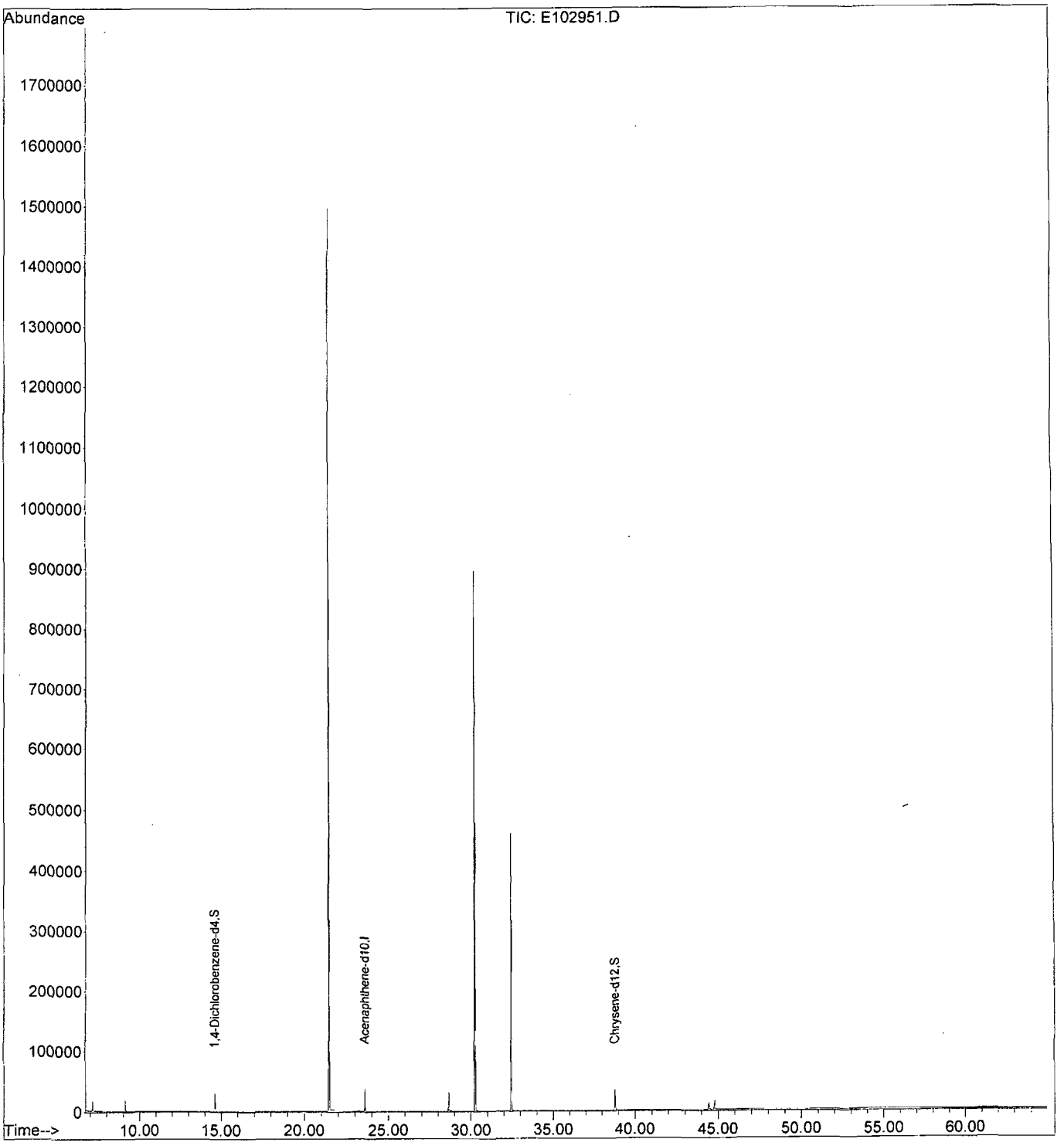
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39288	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	21949	0.822	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	74.55%	
3) Chrysene-d12	38.78	240	58498	0.682	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	61.82%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

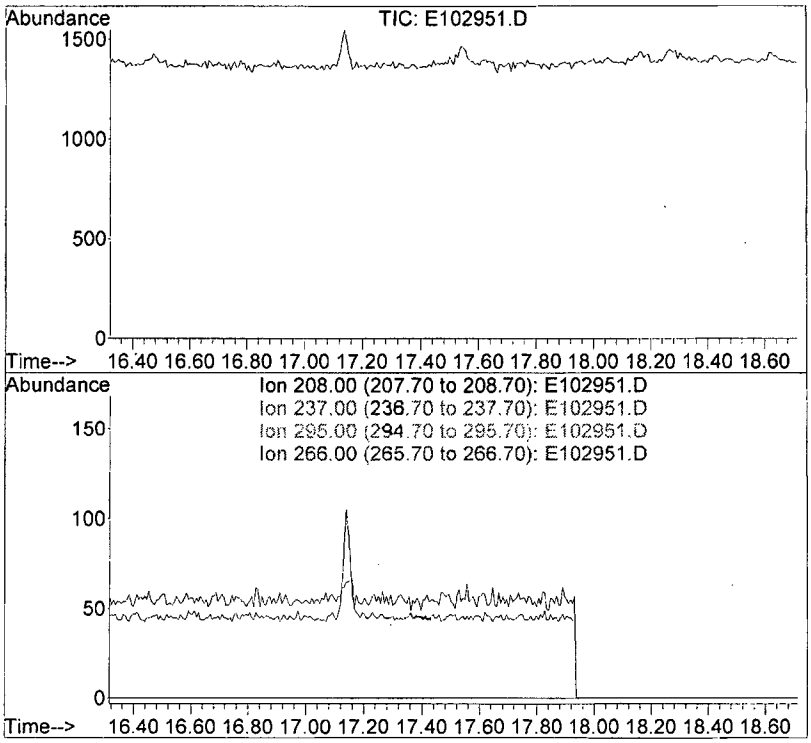
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102951.D
Acq On : 1 Nov 2010 4:20 am
Operator : JAR
Sample : AE101015-22
Misc : BBNPP-CW7-C
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 01 10:04:59 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



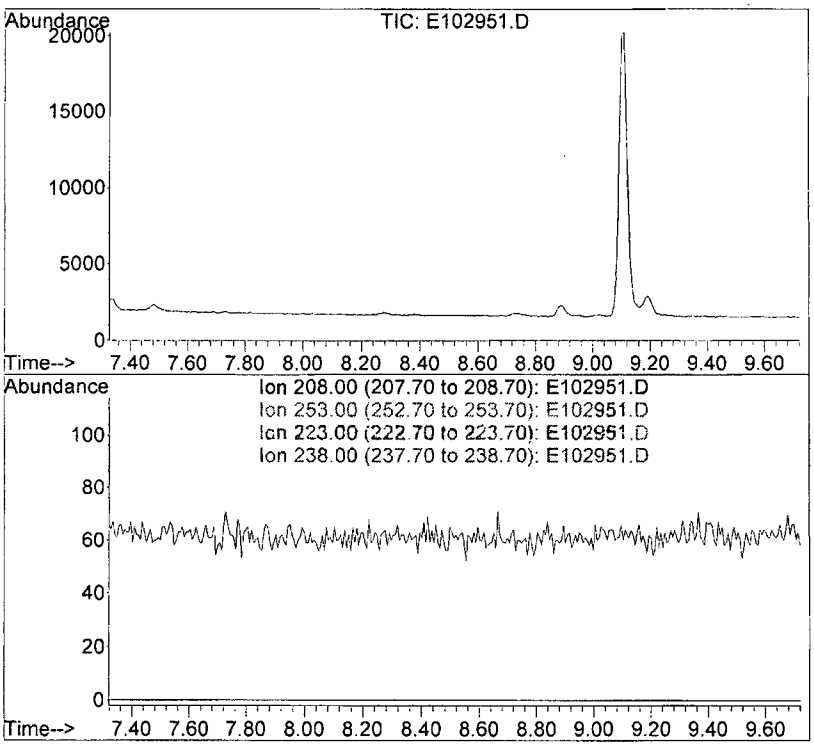


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102951.D
Acq: 1 Nov 2010 4:20 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

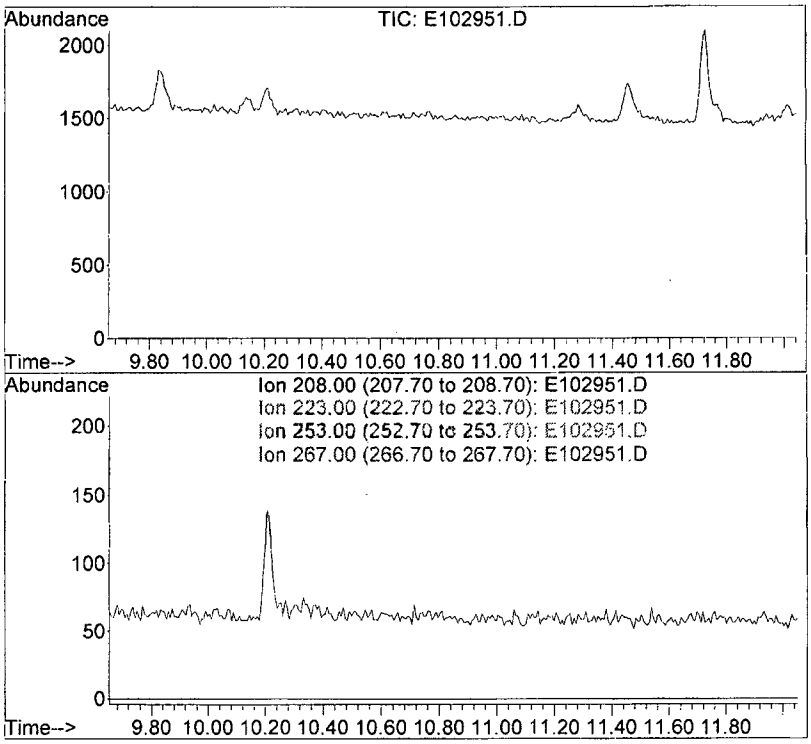


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102951.D
Acq: 1 Nov 2010 4:20 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

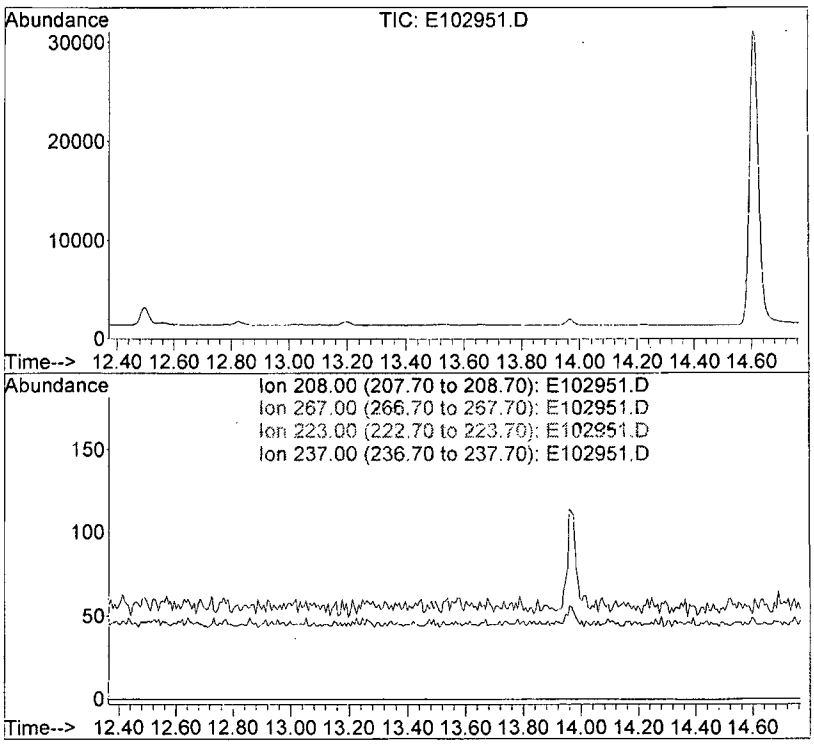


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102951.D
Acq: 1 Nov 2010 4:20 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

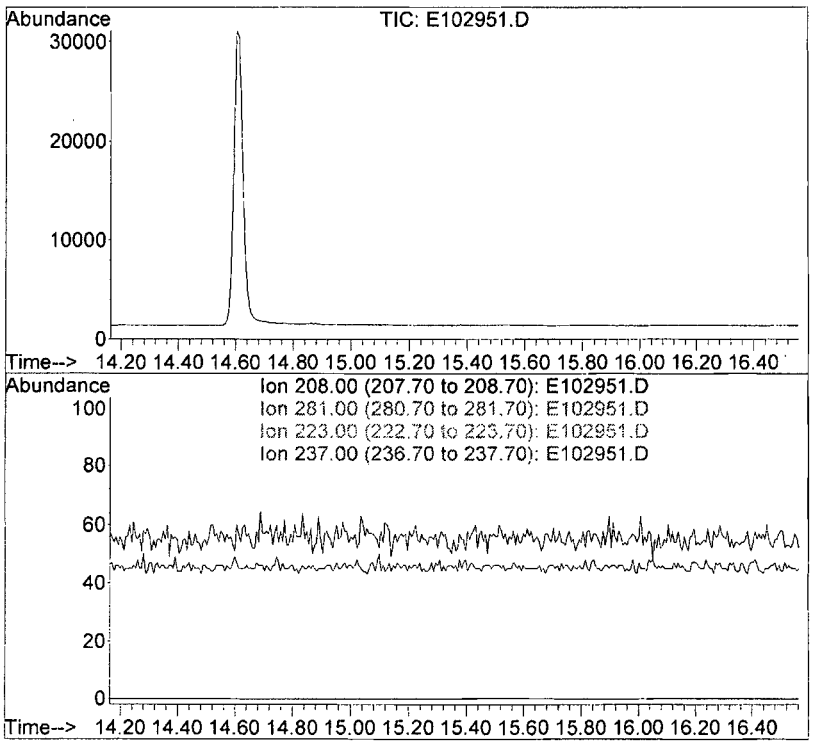


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102951.D
Acq: 1 Nov 2010 4:20 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102951.D
Acq: 1 Nov 2010 4:20 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102951.D
Acq On : 1 Nov 2010 4:20 am
Operator : JAR
Sample : AE101015-22
Misc : BBNPP-CW7-C
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 01 10:06:02 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39288	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.13	84	27371	0.588	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	59.00%	
3) Toluene-d8	9.11	98	38445	0.772	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	77.00%	
4) Phenanthrene-d10	28.64	188	65338	0.796	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	80.00%	
5) Benzo(a)pyrene-d12	44.44	264	31863	0.652	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	65.00%	
6) Perylene-d12	44.78	264	37246	0.609	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	61.00%	

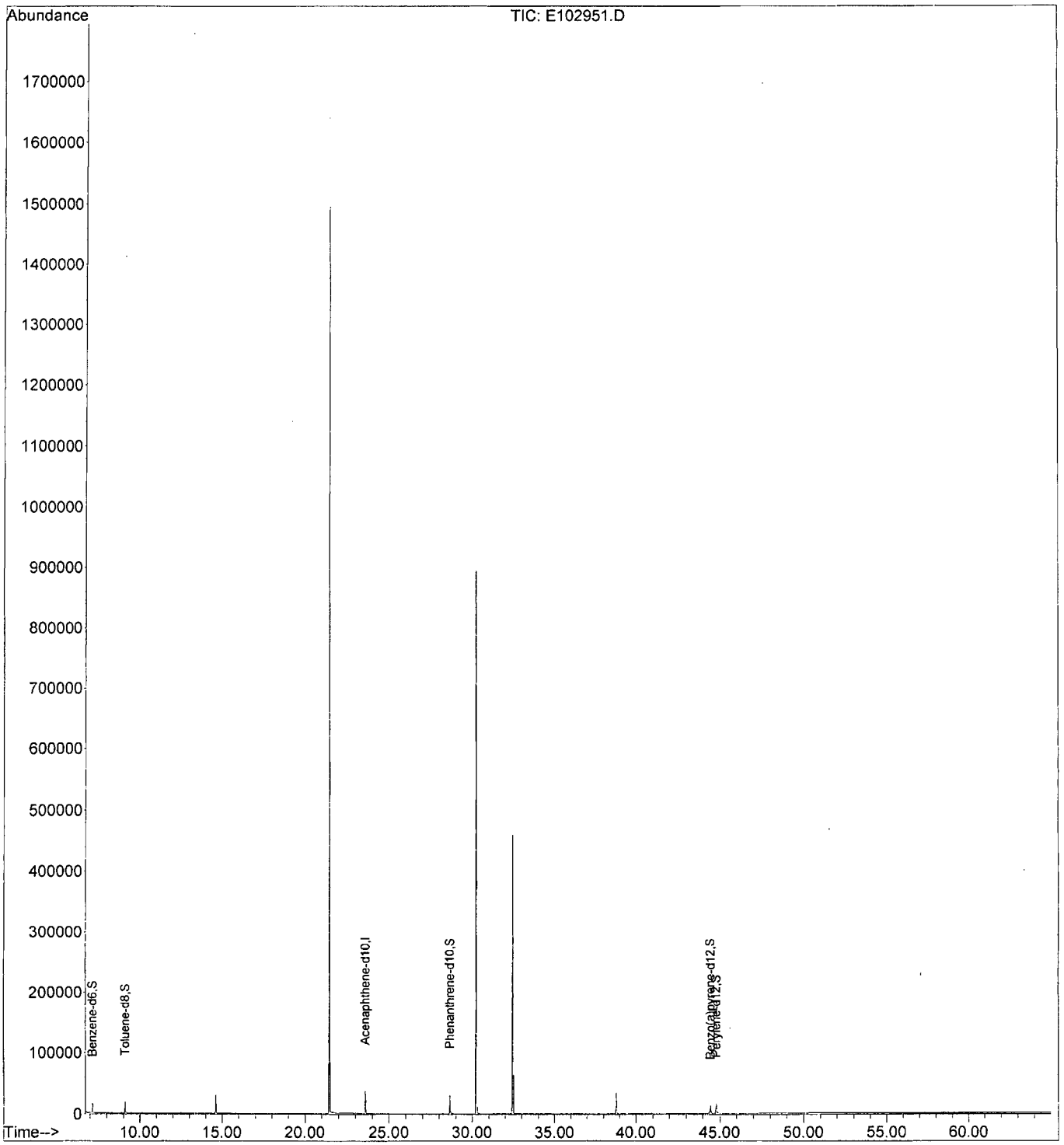
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102951.D
Acq On : 1 Nov 2010 4:20 am
Operator : JAR
Sample : AE101015-22
Misc : BBNPP-CW7-C
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Nov 01 10:06:02 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102952.D
Acq On : 1 Nov 2010 5:35 am
Operator : JAR
Sample : AE101015-23
Misc : BBNPP-CW10-C
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 01 10:05:12 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

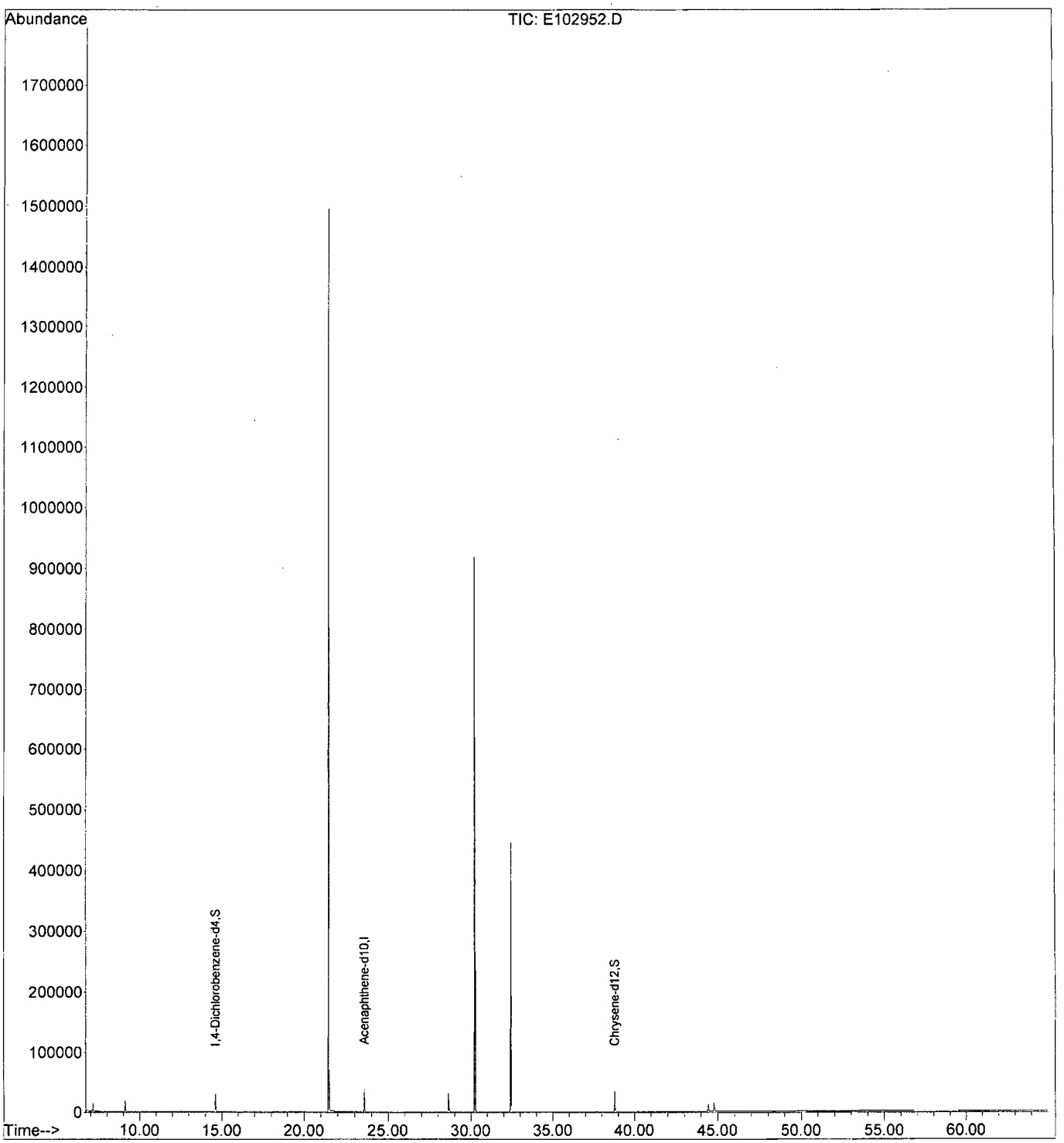
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39179	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	21673	0.814	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.78	240	57495	0.672	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	60.91%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

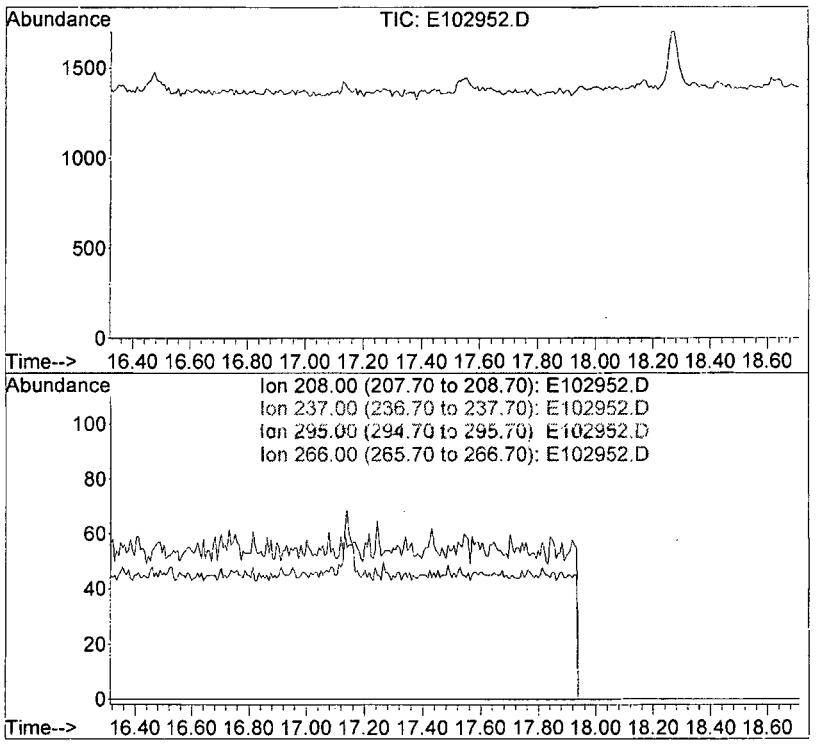
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102952.D
Acq On : 1 Nov 2010 5:35 am
Operator : JAR
Sample : AE101015-23
Misc : BBNPP-CW10-C
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 01 10:05:12 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



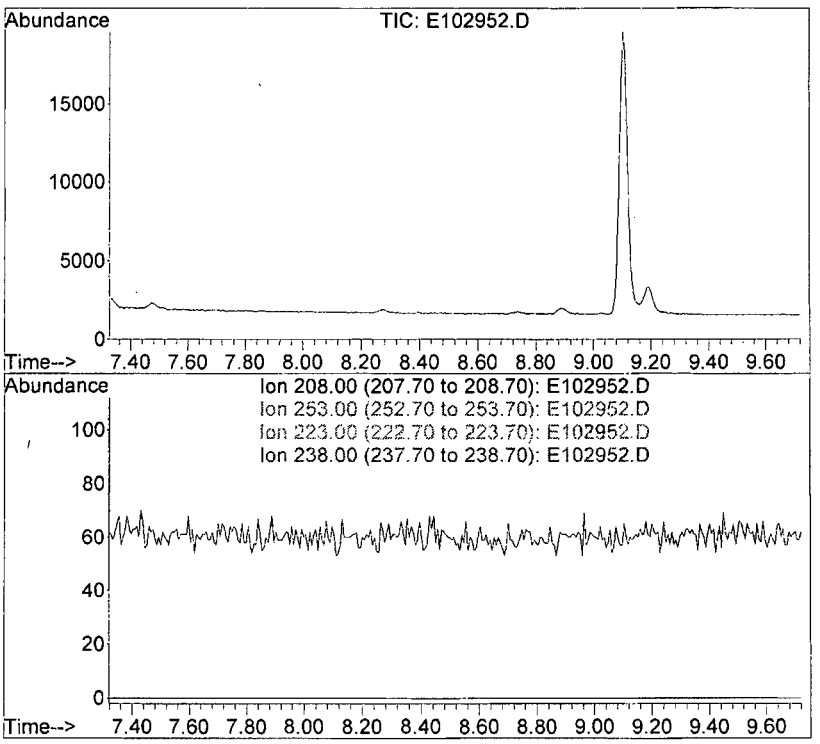


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102952.D
Acq: 1 Nov 2010 5:35 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

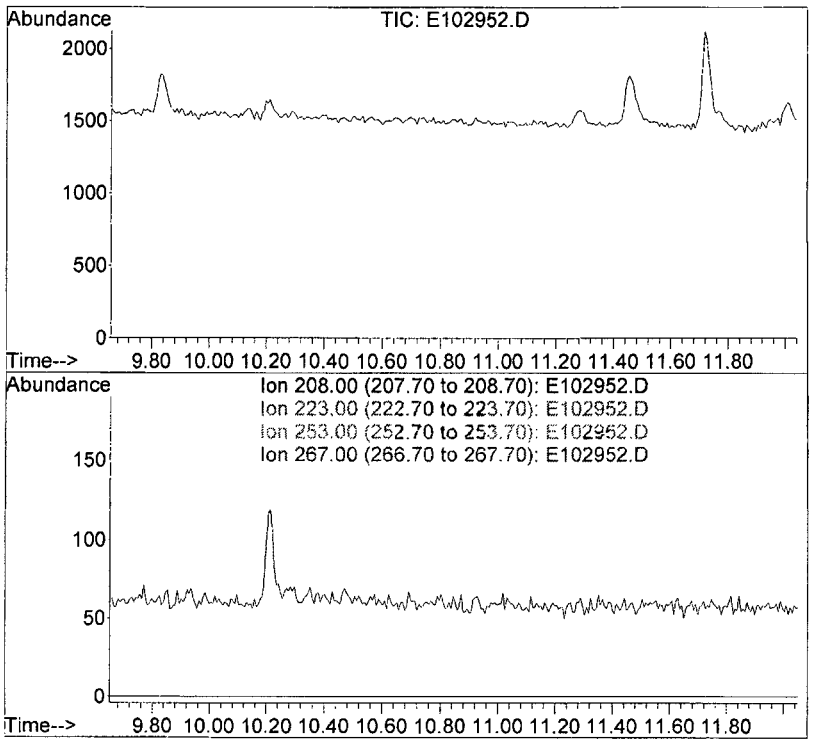


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102952.D
Acq: 1 Nov 2010 5:35 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

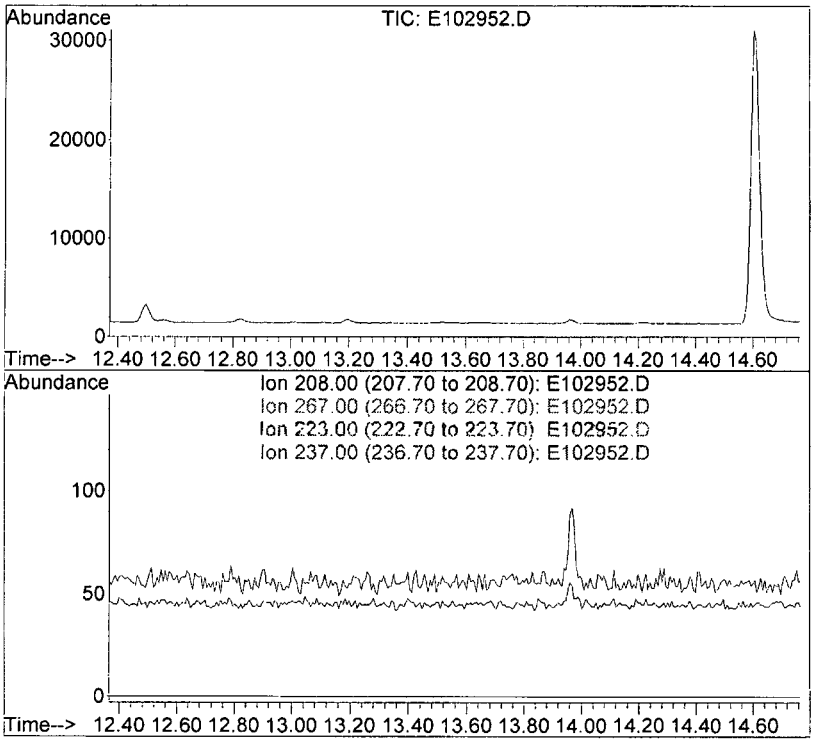


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102952.D
Acq: 1 Nov 2010 5:35 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

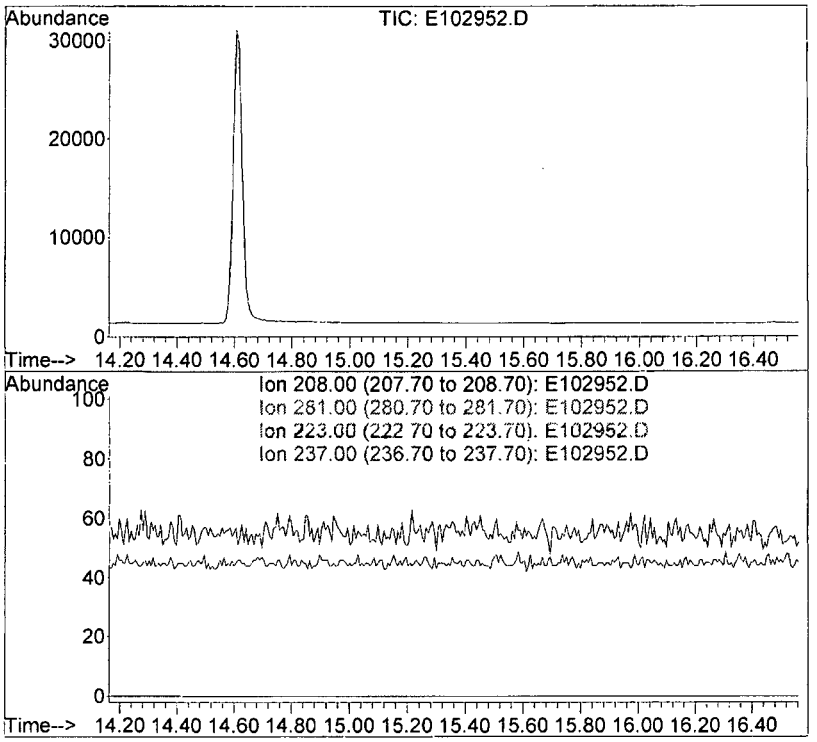


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102952.D
Acq: 1 Nov 2010 5:35 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102952.D
Acq: 1 Nov 2010 5:35 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102952.D
Acq On : 1 Nov 2010 5:35 am
Operator : JAR
Sample : AE101015-23
Misc : BBNPP-CW10-C
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 01 10:08:29 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	39179	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.13	84	23700	0.511	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	51.00%	
3) Toluene-d8	9.10	98	37113	0.748	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	75.00%	
4) Phenanthrene-d10	28.64	188	65563	0.801	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	80.00%	
5) Benzo(a)pyrene-d12	44.44	264	31244	0.641	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	64.00%	
6) Perylene-d12	44.78	264	36280	0.595	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	59.00%	

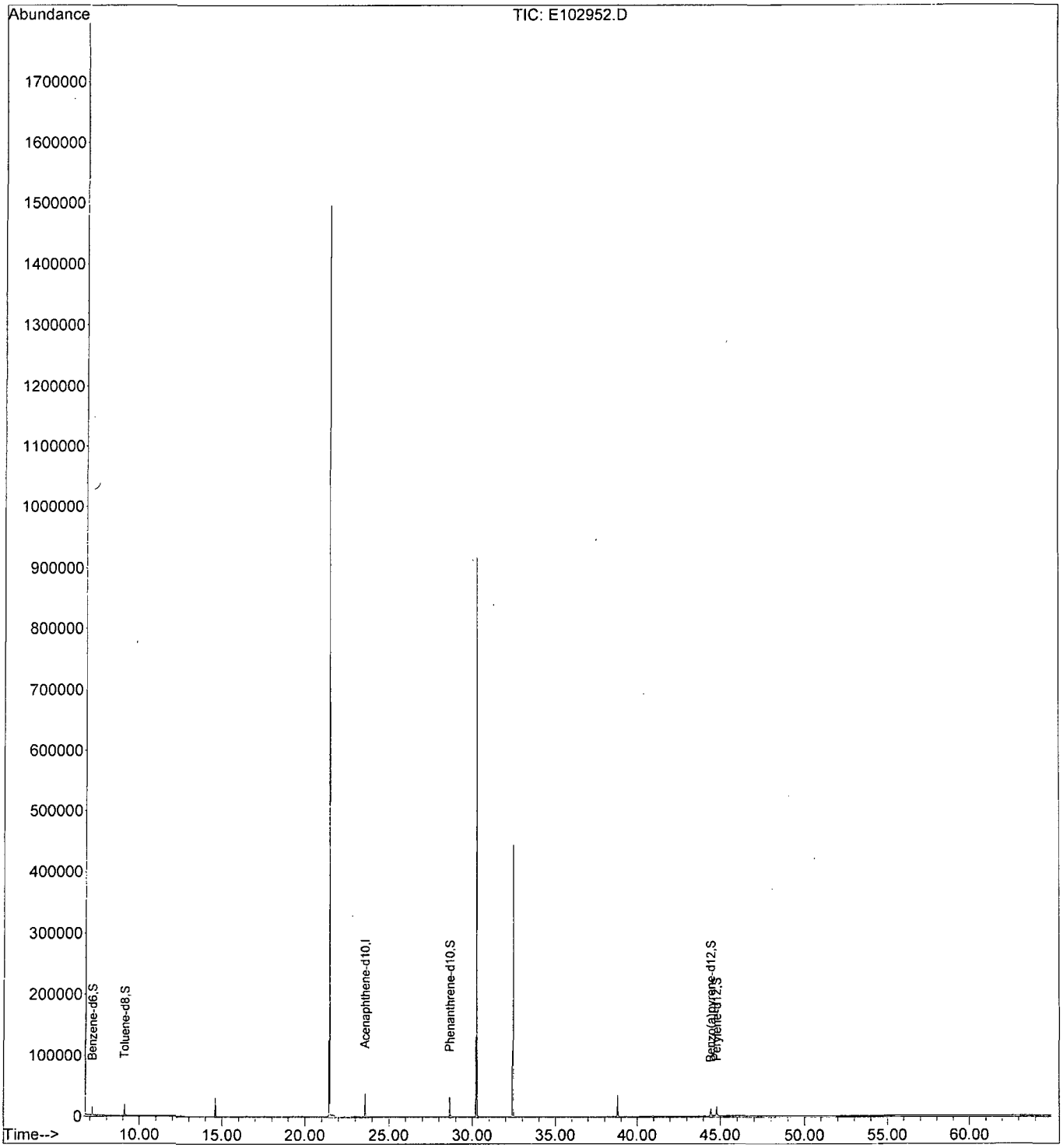
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102952.D
Acq On : 1 Nov 2010 5:35 am
Operator : JAR
Sample : AE101015-23
Misc : BBNPP-CW10-C
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Nov 01 10:08:29 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102953.D
Acq On : 1 Nov 2010 6:49 am
Operator : JAR
Sample : AE101015-24
Misc : BBNPP-CW13-C
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 01 10:05:25 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

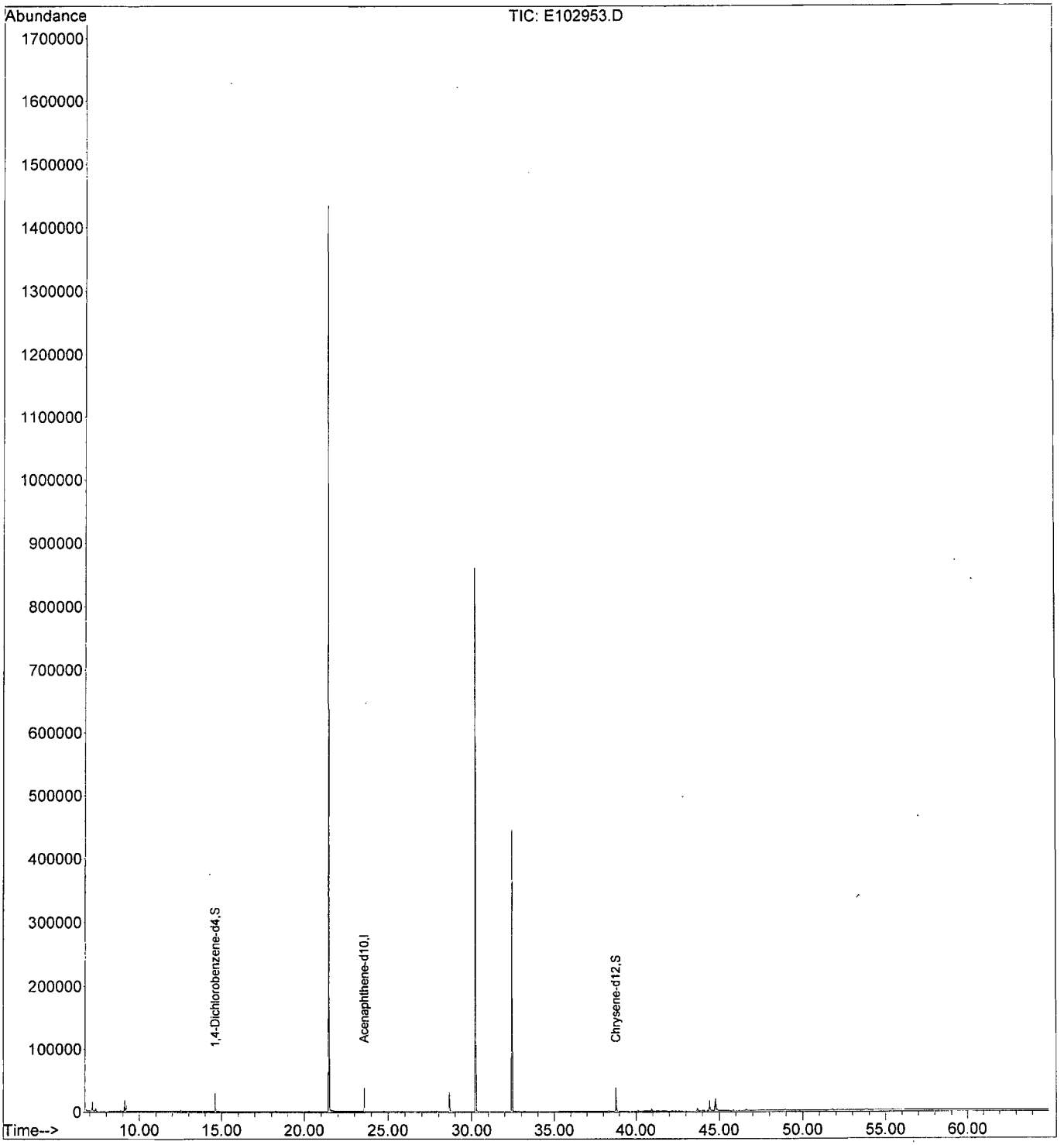
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	38818	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	21415	0.812	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.78	240	61860	0.730	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

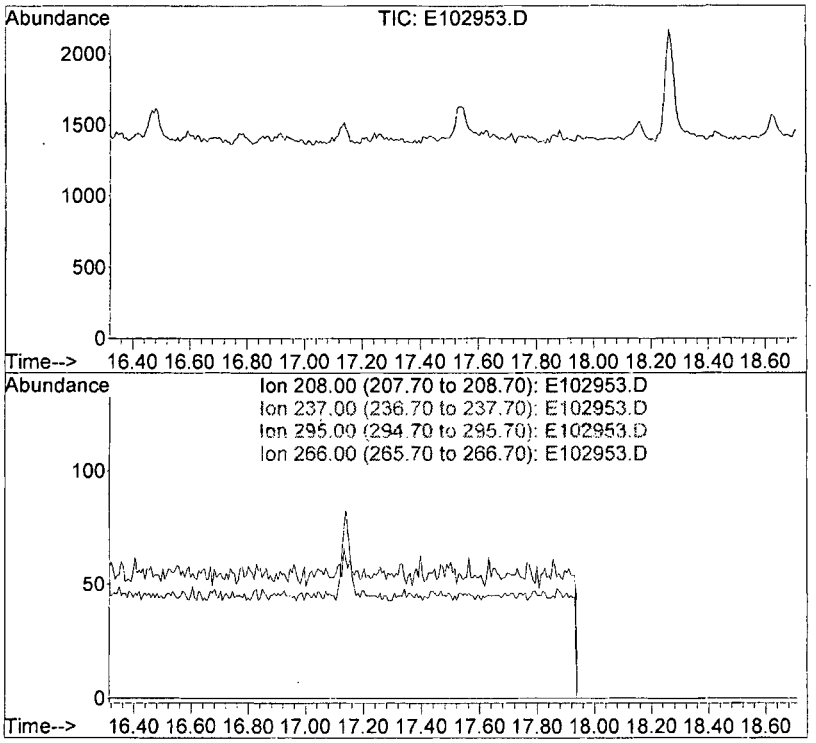
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102953.D
Acq On : 1 Nov 2010 6:49 am
Operator : JAR
Sample : AE101015-24
Misc : BBNPP-CW13-C
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 01 10:05:25 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



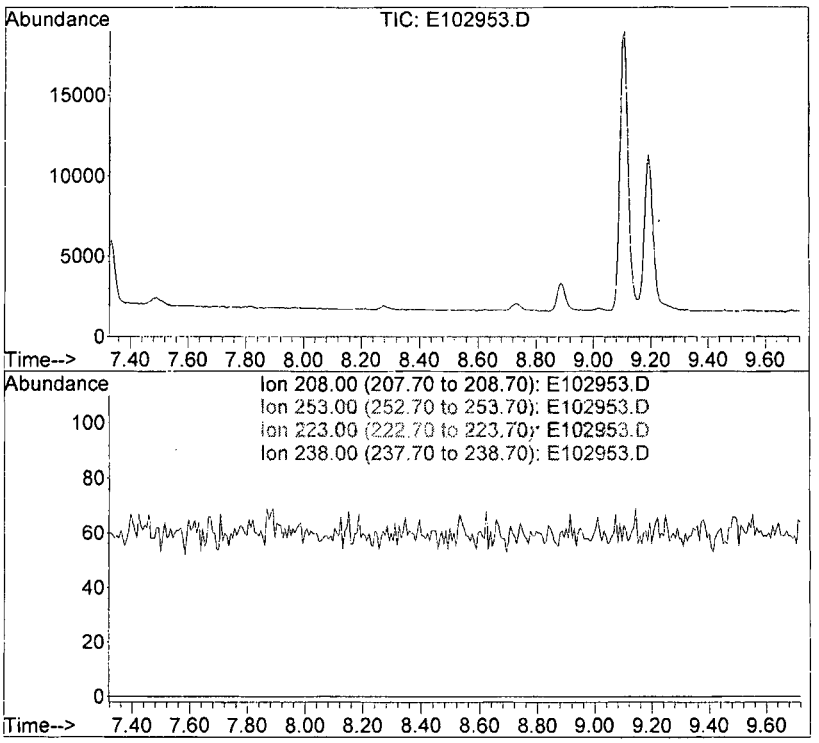


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102953.D
Acq: 1 Nov 2010 6:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

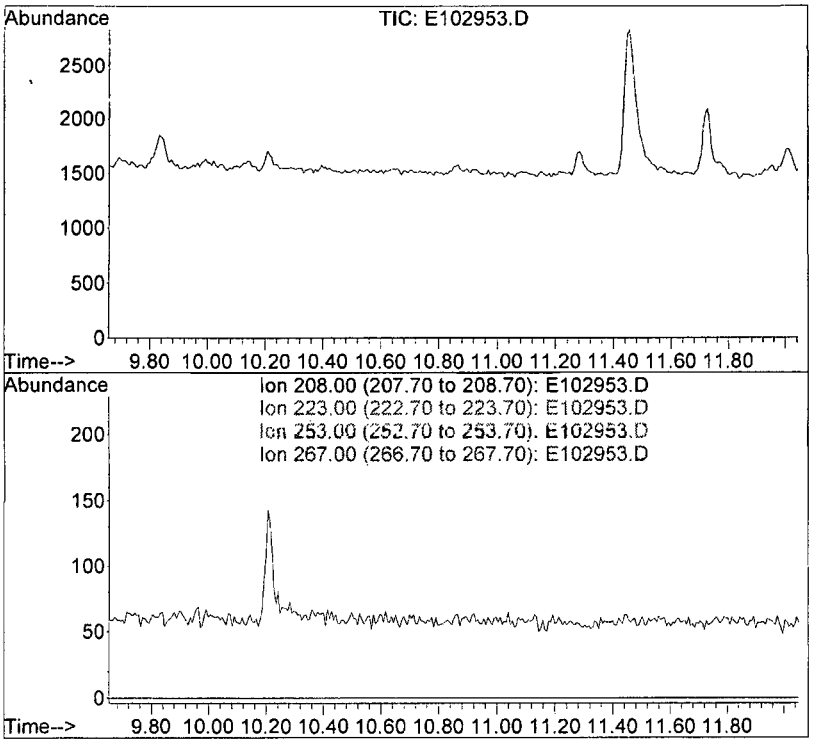


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102953.D
Acq: 1 Nov 2010 6:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

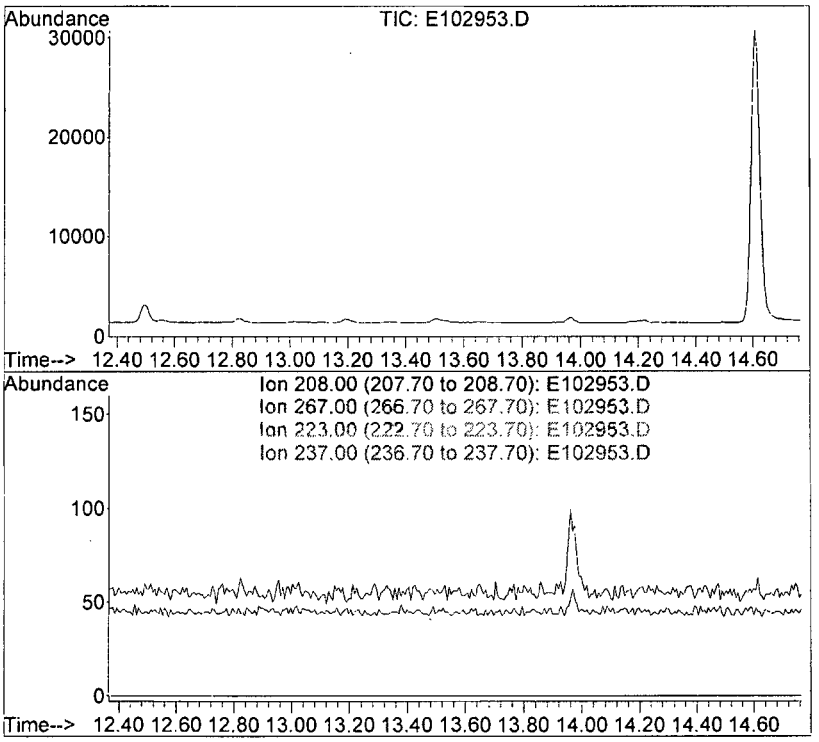


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102953.D
Acq: 1 Nov 2010 6:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

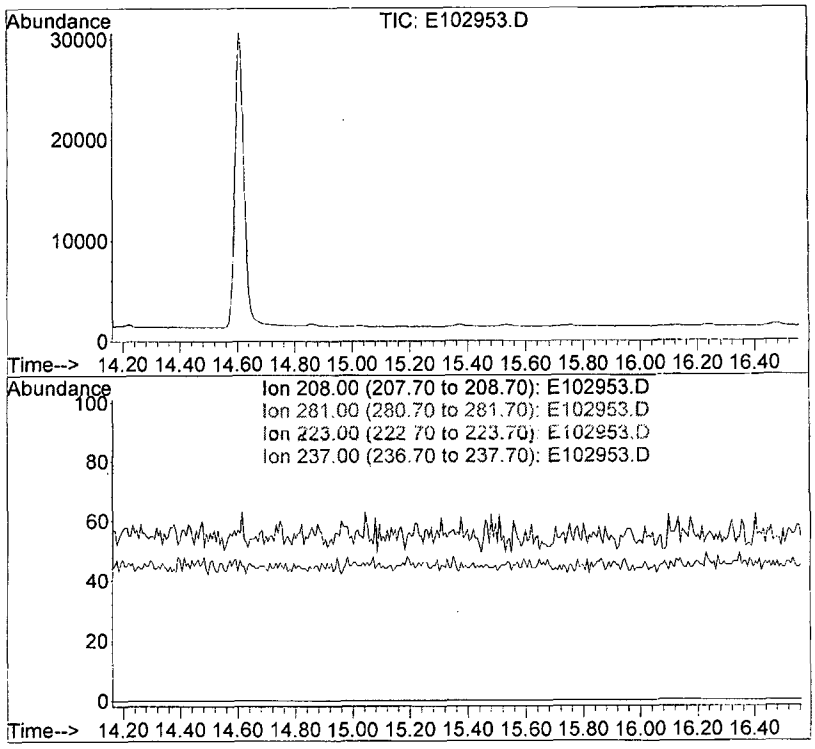


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102953.D
Acq: 1 Nov 2010 6:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102953.D
Acq: 1 Nov 2010 6:49 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102953.D
Acq On : 1 Nov 2010 6:49 am
Operator : JAR
Sample : AE101015-24
Misc : BBNPP-CW13-C
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 01 10:08:40 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	38846	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	23658	0.514	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	51.00%	
3) Toluene-d8	9.11	98	35352	0.718	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	72.00%	
4) Phenanthrene-d10	28.65	188	65405	0.806	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	81.00%	
5) Benzo(a)pyrene-d12	44.43	264	40050	0.829	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	83.00%	
6) Perylene-d12	44.78	264	44339	0.733	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	73.00%	

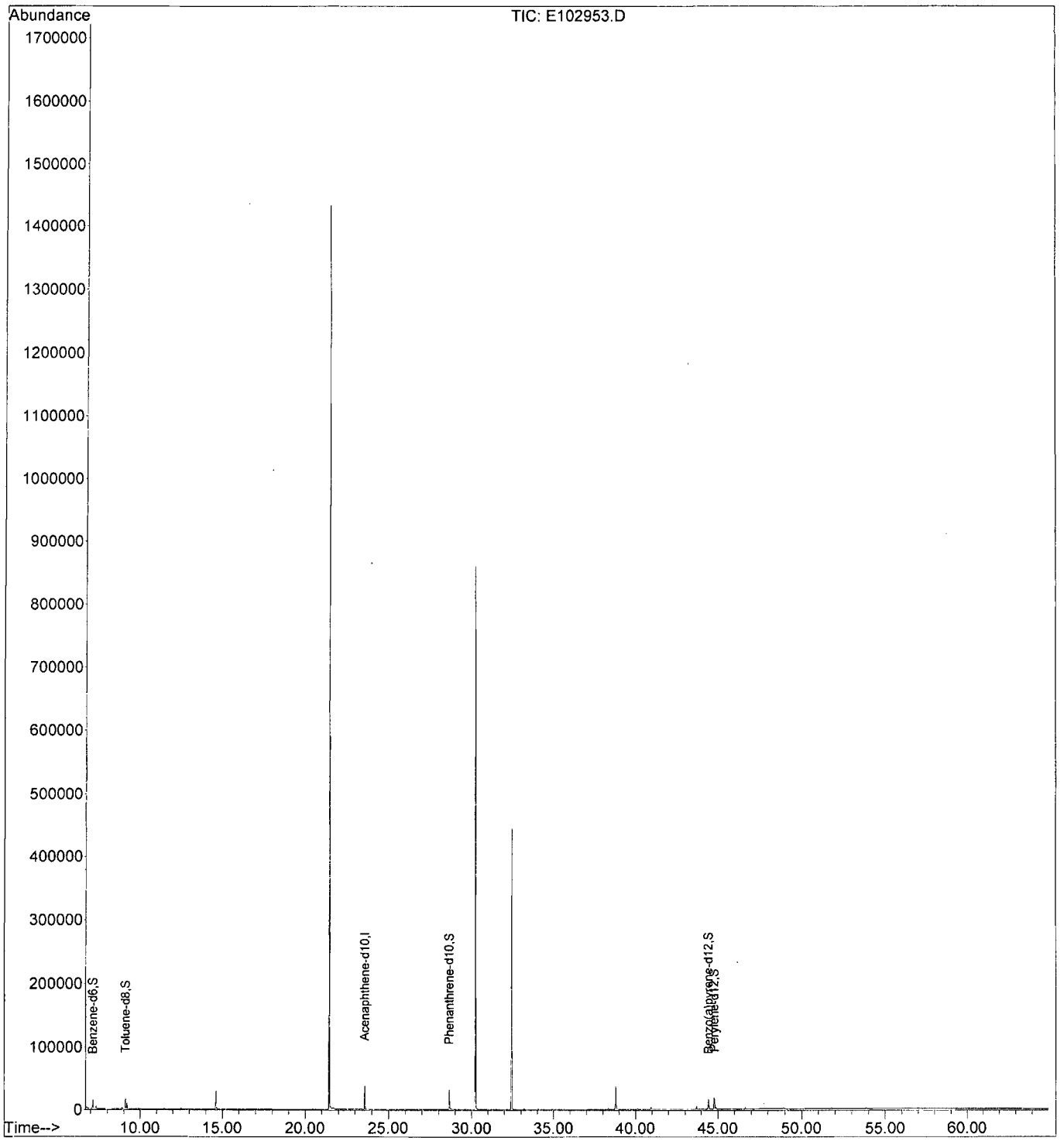
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102953.D
Acq On : 1 Nov 2010 6:49 am
Operator : JAR
Sample : AE101015-24
Misc : BBNPP-CW13-C
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Nov 01 10:08:40 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102954.D
Acq On : 1 Nov 2010 8:03 am
Operator : JAR
Sample : AE101015-25
Misc : BBNPP-CW16-C
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 01 10:05:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

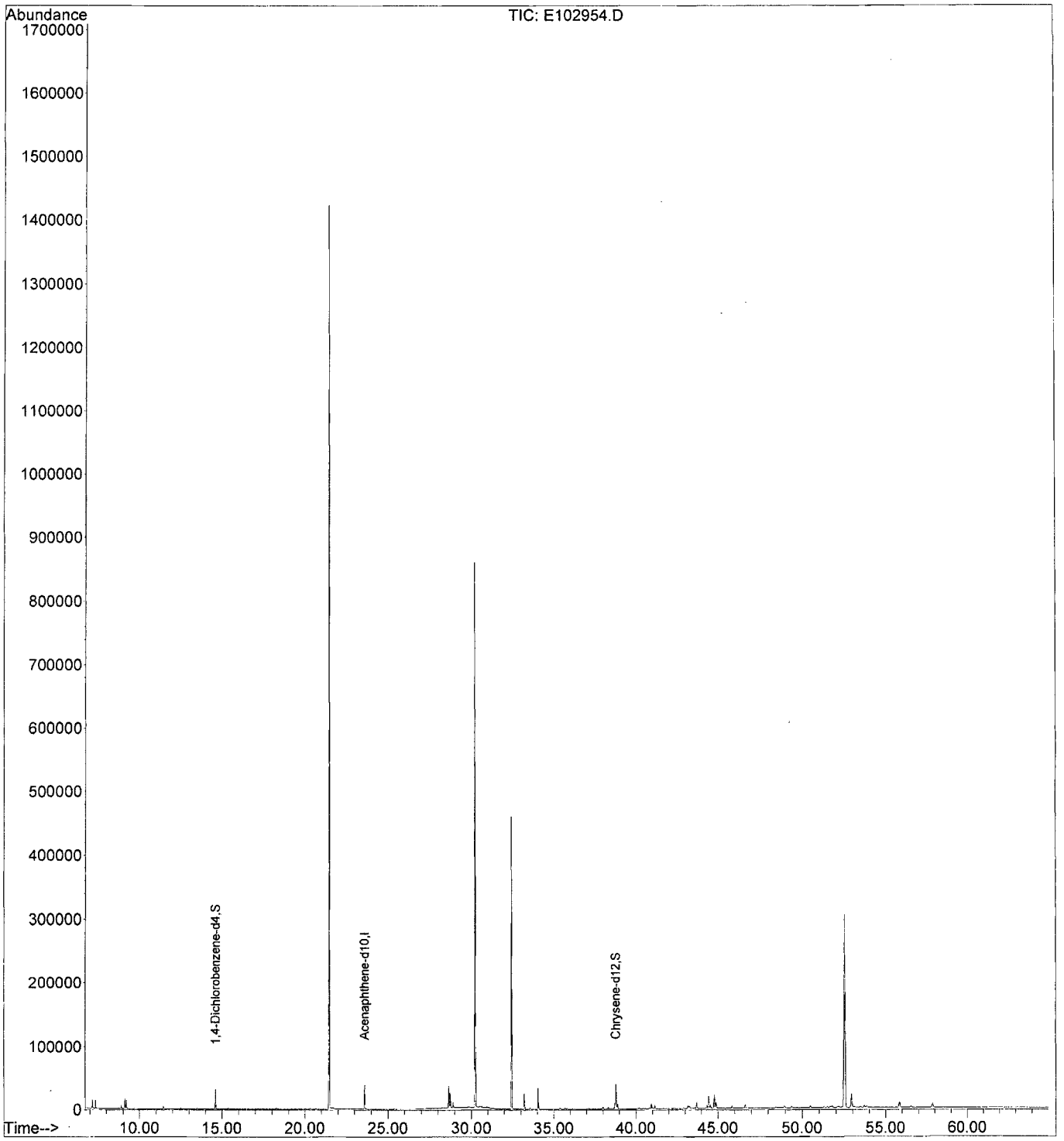
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41407	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	21886	0.778	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	70.91%	
3) Chrysene-d12	38.78	240	64858	0.717	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	65.45%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

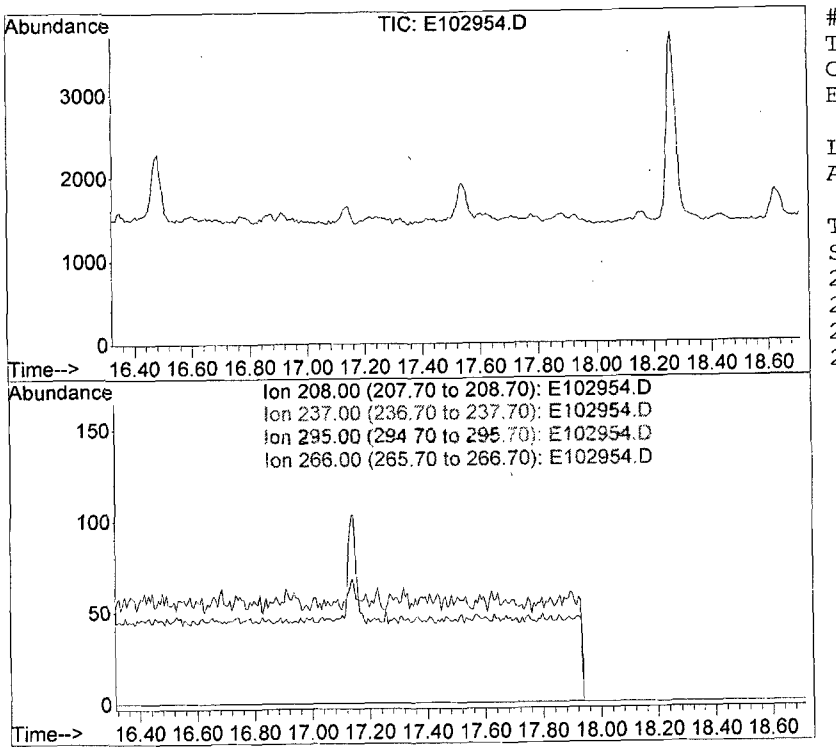
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102954.D
Acq On : 1 Nov 2010 8:03 am
Operator : JAR
Sample : AE101015-25
Misc : BBNPP-CW16-C
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 01 10:05:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



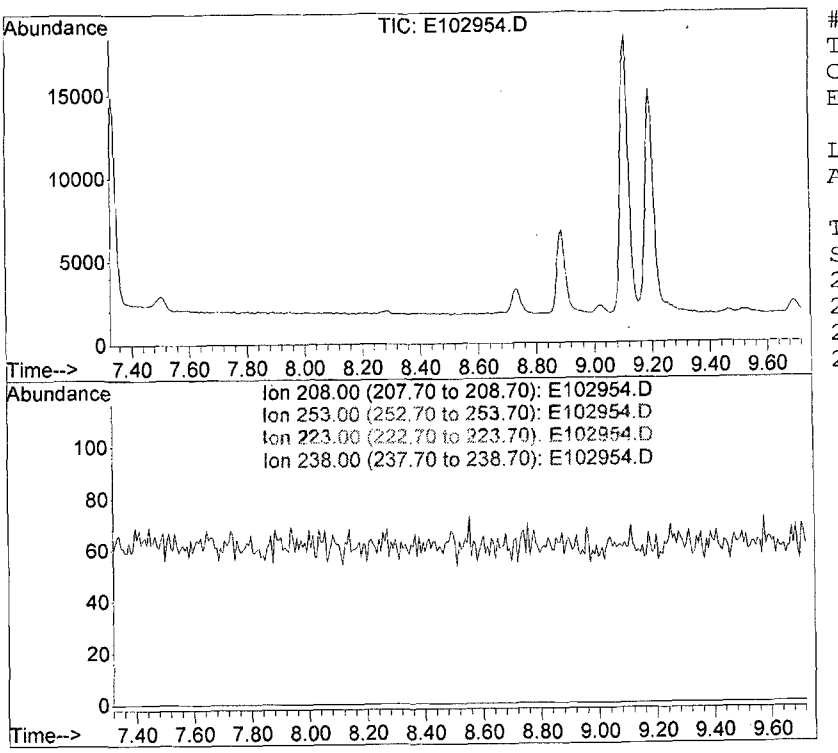


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102954.D
Acq: 1 Nov 2010 8:03 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

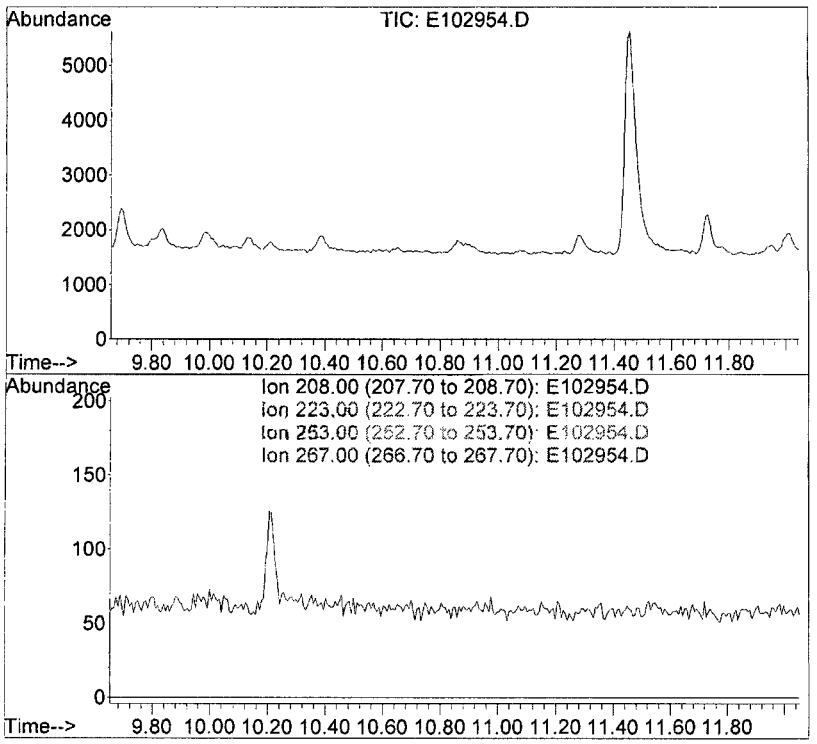


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102954.D
Acq: 1 Nov 2010 8:03 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

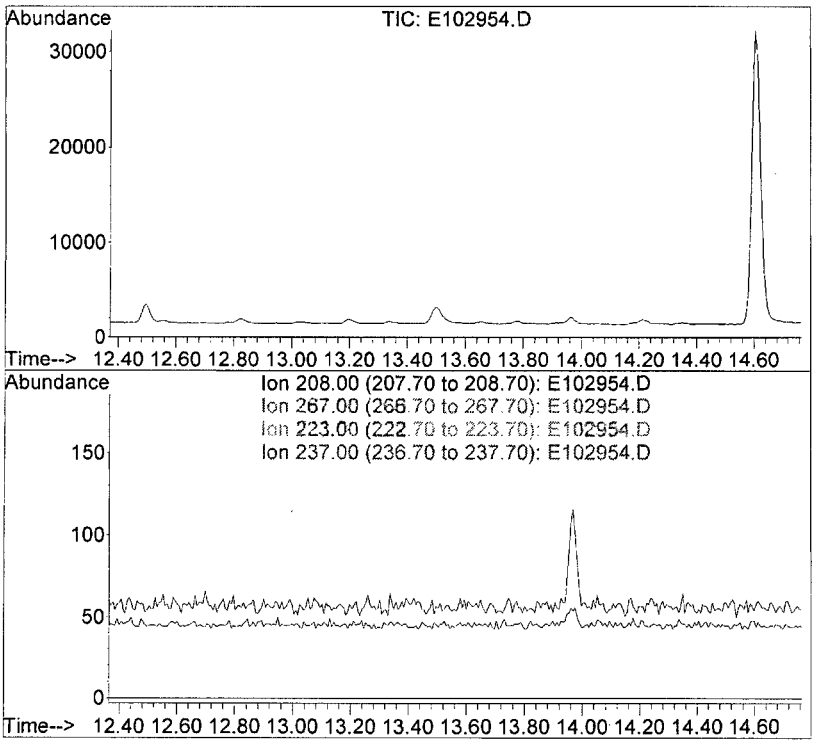


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102954.D
Acq: 1 Nov 2010 8:03 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

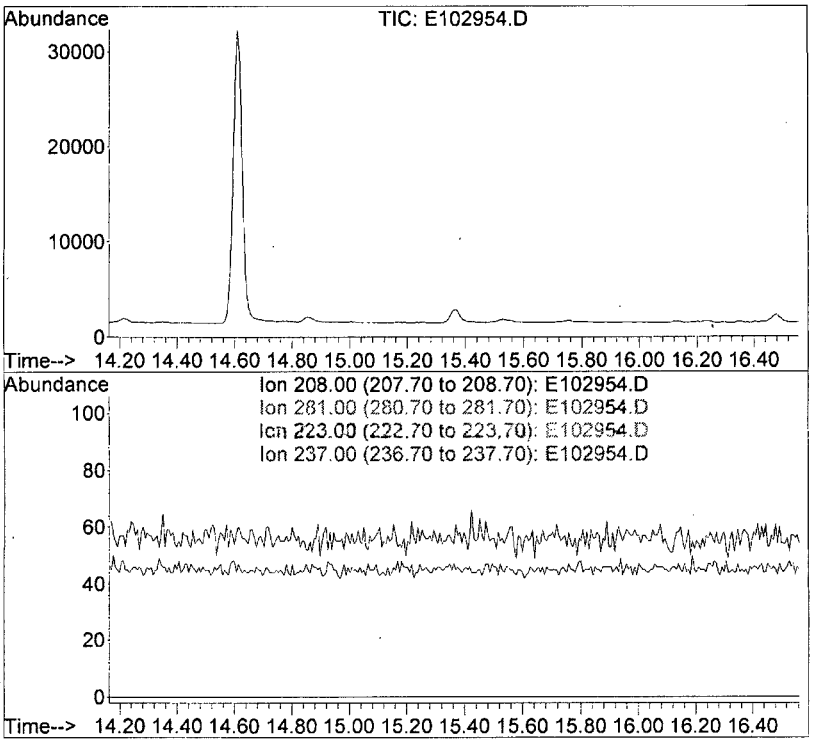


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102954.D
Acq: 1 Nov 2010 8:03 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102954.D
Acq: 1 Nov 2010 8:03 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102954.D
Acq On : 1 Nov 2010 8:03 am
Operator : JAR
Sample : AE101015-25
Misc : BBNPP-CW16-C
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 01 10:08:54 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41418	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	22560	0.460	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	46.00%	
3) Toluene-d8	9.11	98	34004	0.648	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	65.00%	
4) Phenanthrene-d10	28.65	188	69490	0.803	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	80.00%	
5) Benzo(a)pyrene-d12	44.43	264	44810	0.870	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	87.00%	
6) Perylene-d12	44.78	264	48020	0.745	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	74.00%	

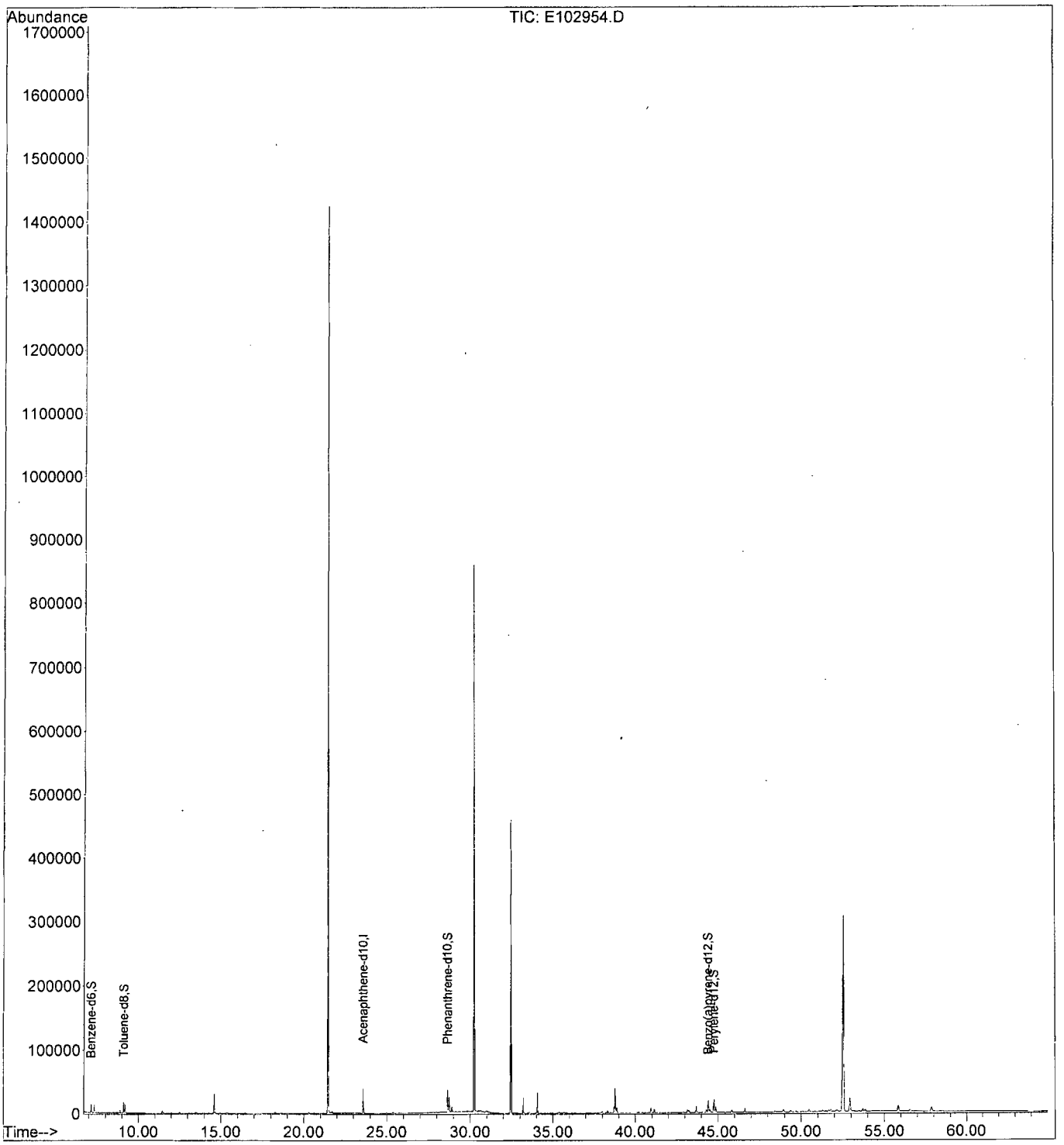
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102954.D
Acq On : 1 Nov 2010 8:03 am
Operator : JAR
Sample : AE101015-25
Misc : BBNPP-CW16-C
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Nov 01 10:08:54 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102955.D
Acq On : 1 Nov 2010 9:18 am
Operator : JAR
Sample : AE101015-26
Misc : BBNPP-CW19-C
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 02 12:13:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

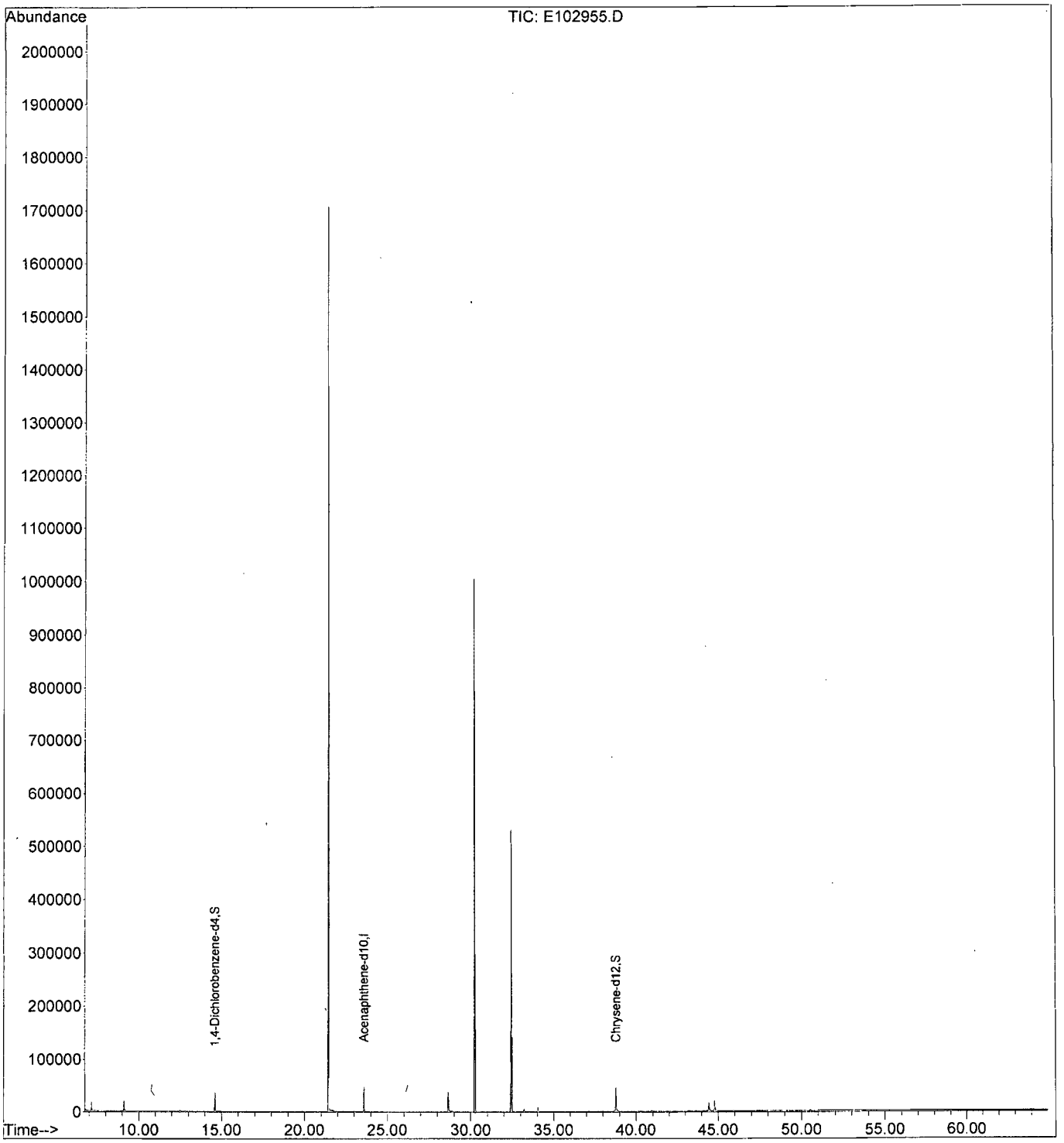
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49029	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26479	0.794	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.78	240	74413	0.695	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	62.73%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

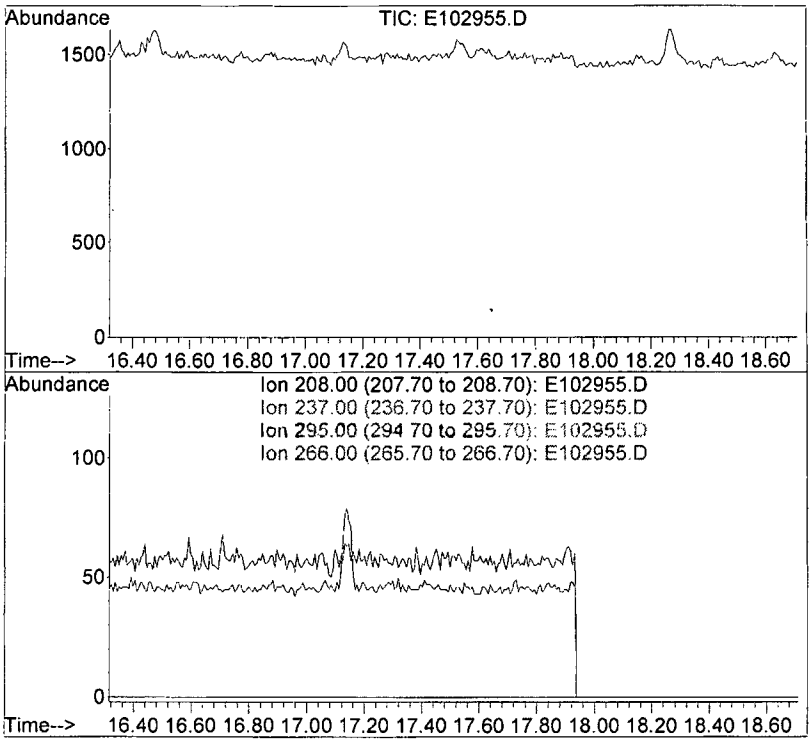
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102955.D
Acq On : 1 Nov 2010 9:18 am
Operator : JAR
Sample : AE101015-26
Misc : BBNPP-CW19-C
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 02 12:13:06 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



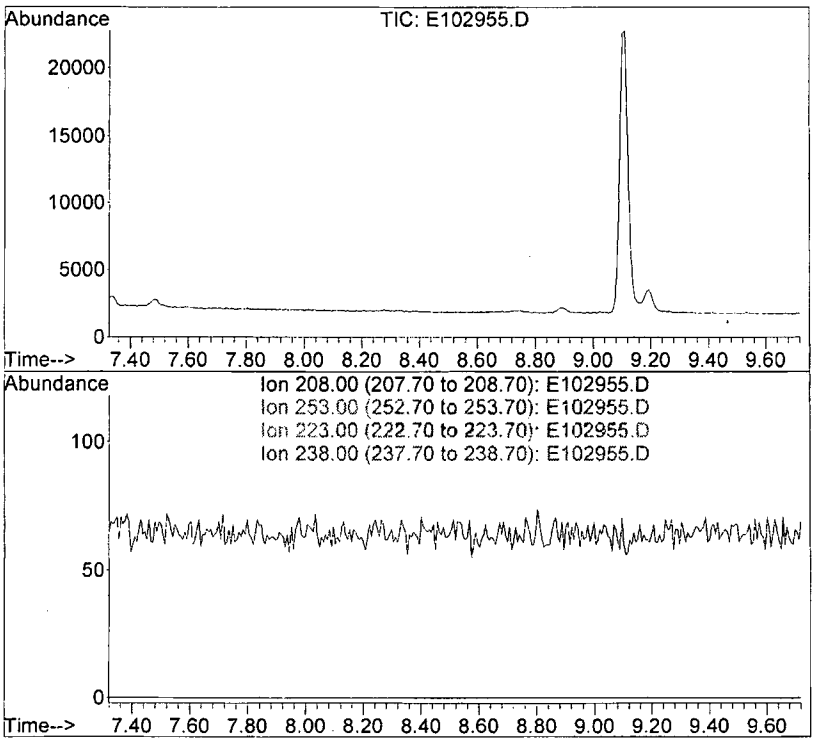


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102955.D
Acq: 1 Nov 2010 9:18 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

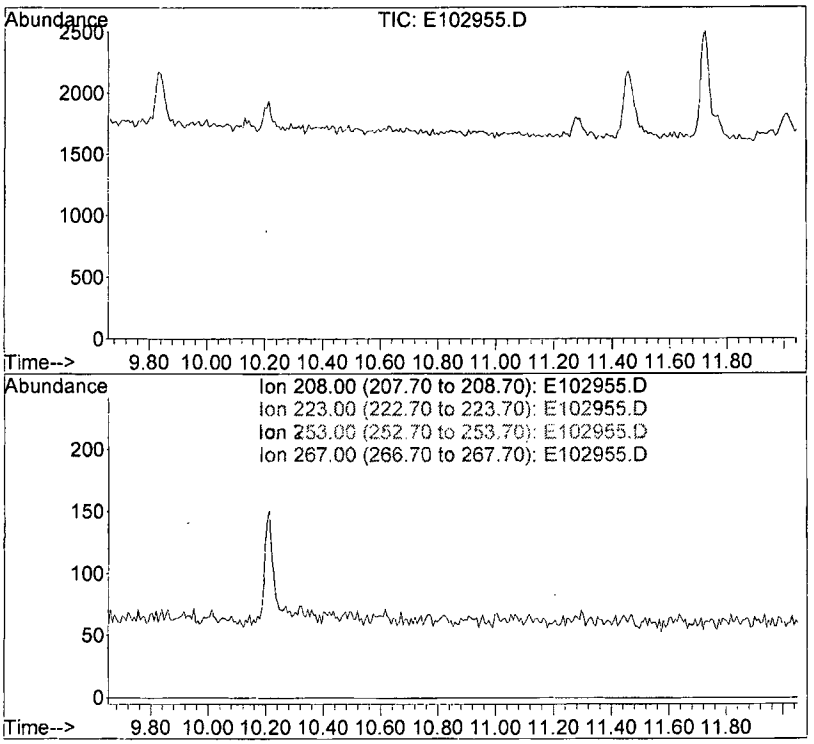


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102955.D
Acq: 1 Nov 2010 9:18 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

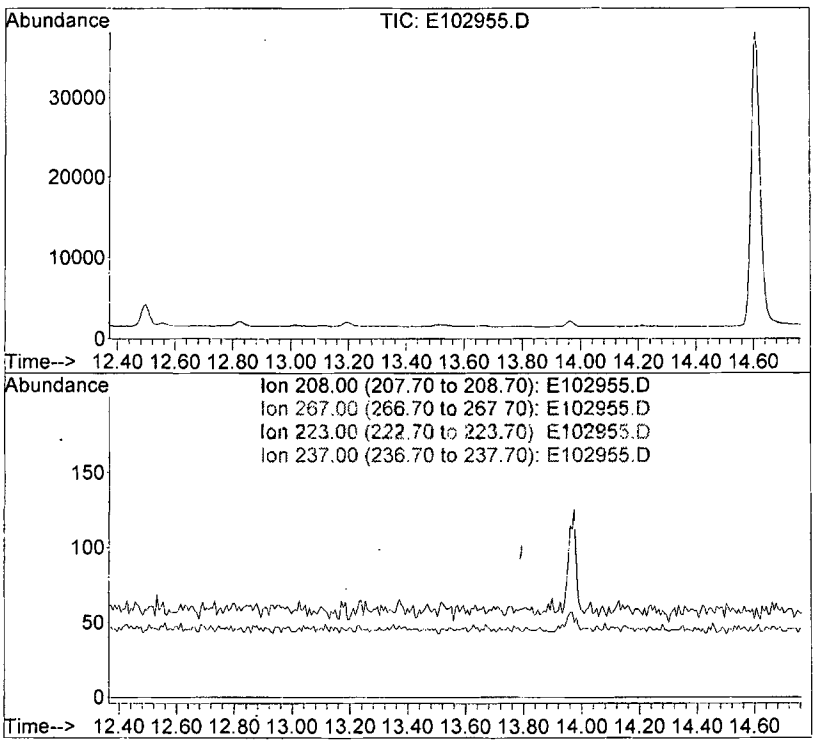


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102955.D
Acq: 1 Nov 2010 9:18 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

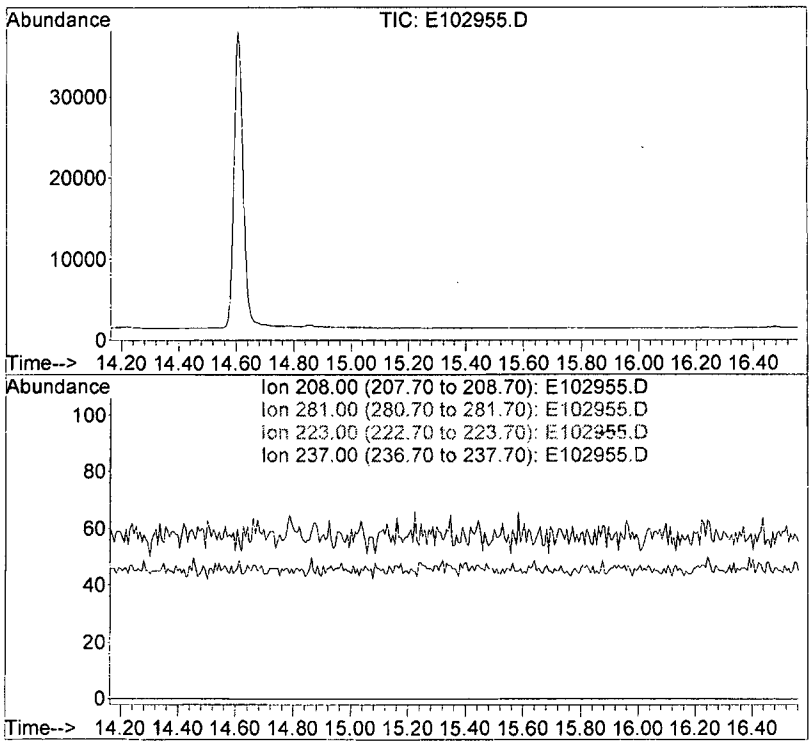


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102955.D
Acq: 1 Nov 2010 9:18 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102955.D
Acq: 1 Nov 2010 9:18 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102955.D
Acq On : 1 Nov 2010 9:18 am
Operator : JAR
Sample : AE101015-26
Misc : BBNPP-CW19-C
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 02 14:28:03 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	49029	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	28950	0.499	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	50.00%	
3) Toluene-d8	9.11	98	43478	0.700	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	70.00%	
4) Phenanthrene-d10	28.65	188	76952	0.752	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	75.00%	
5) Benzo(a)pyrene-d12	44.43	264	39832	0.653	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	65.00%	
6) Perylene-d12	44.78	264	45357	0.594	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	59.00%	

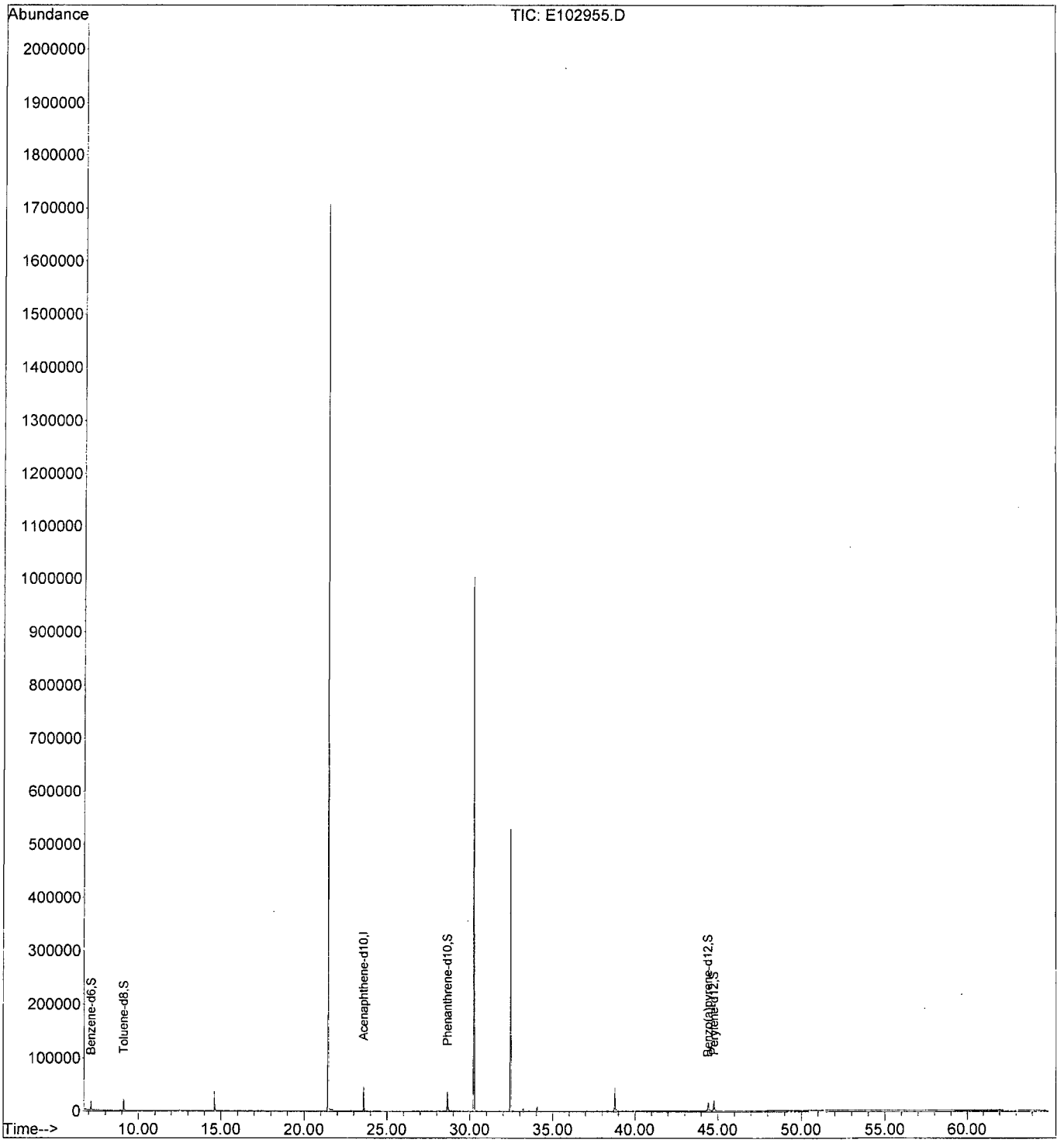
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102955.D
Acq On : 1 Nov 2010 9:18 am
Operator : JAR
Sample : AE101015-26
Misc : BBNPP-CW19-C
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Nov 02 14:28:03 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102956.D
Acq On : 1 Nov 2010 10:32 am
Operator : JAR
Sample : AE101015-27
Misc : BBNPP-D1-C-FD
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 02 12:13:09 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

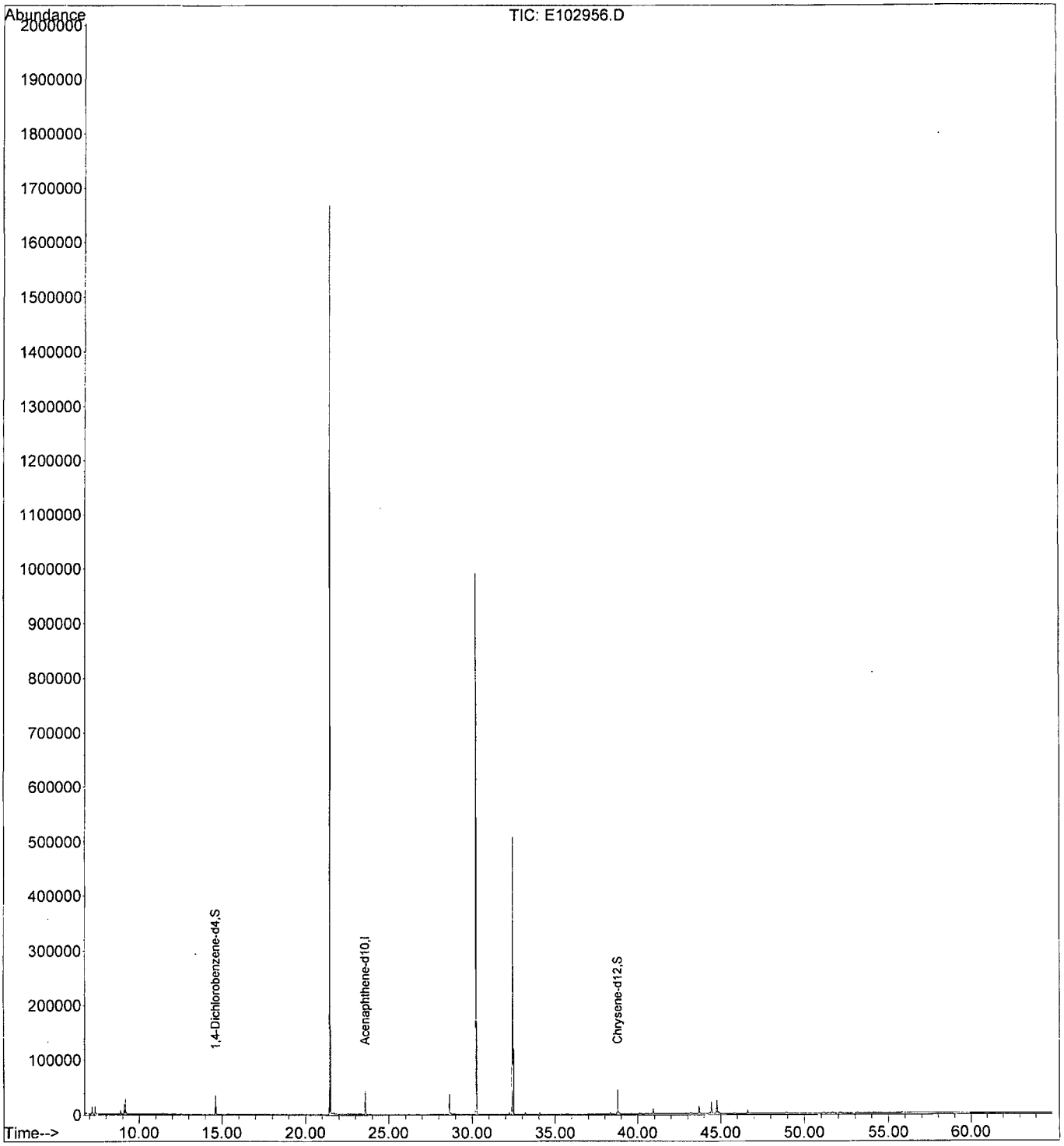
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	45338	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	24111	0.782	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	70.91%	
3) Chrysene-d12	38.78	240	73534	0.743	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	67.27%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

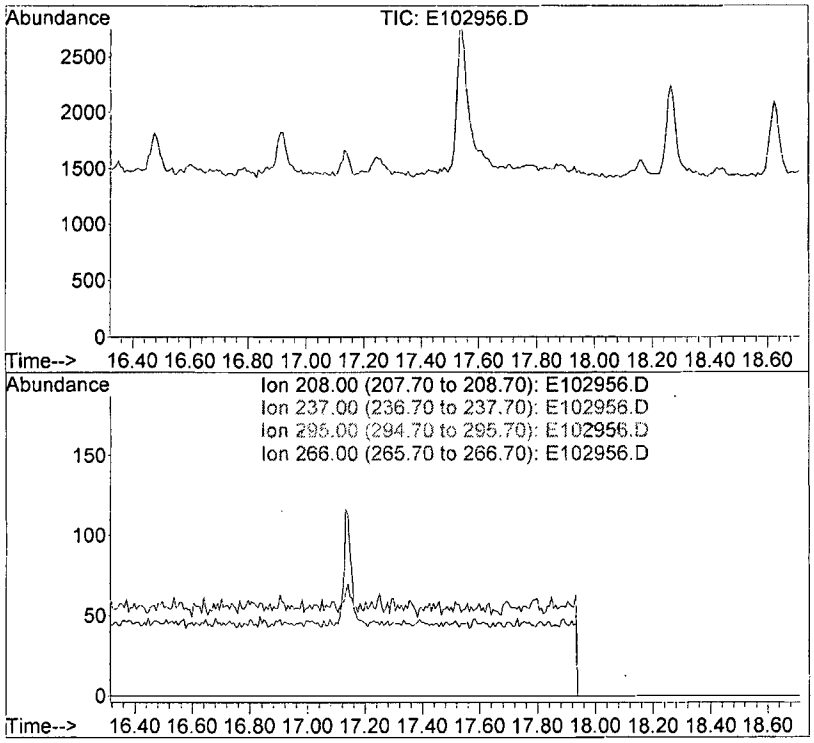
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102956.D
Acq On : 1 Nov 2010 10:32 am
Operator : JAR
Sample : AE101015-27
Misc : BBNPP-D1-C-FD
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 02 12:13:09 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



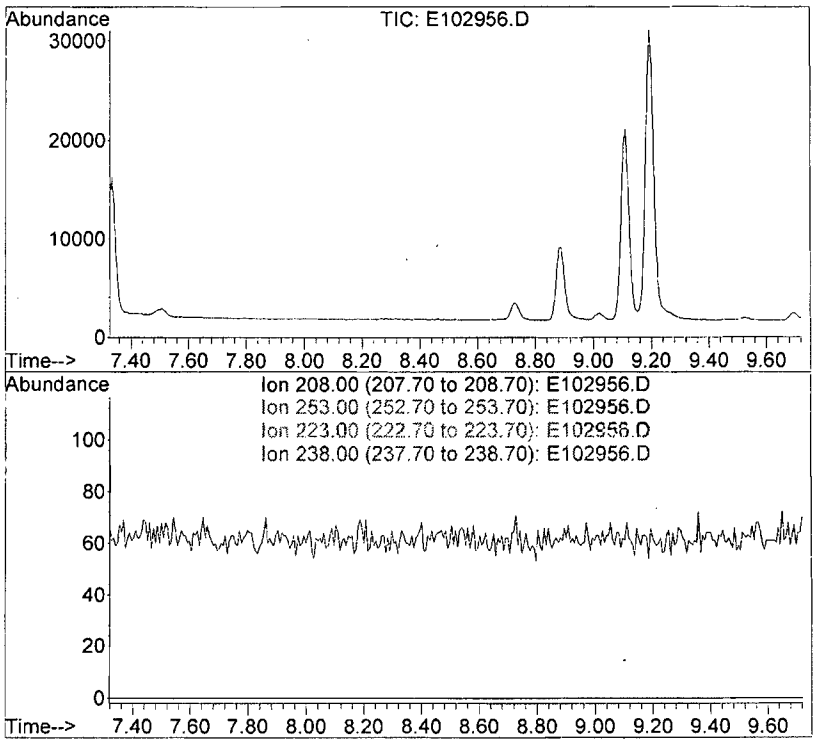


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102956.D
Acq: 1 Nov 2010 10:32 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

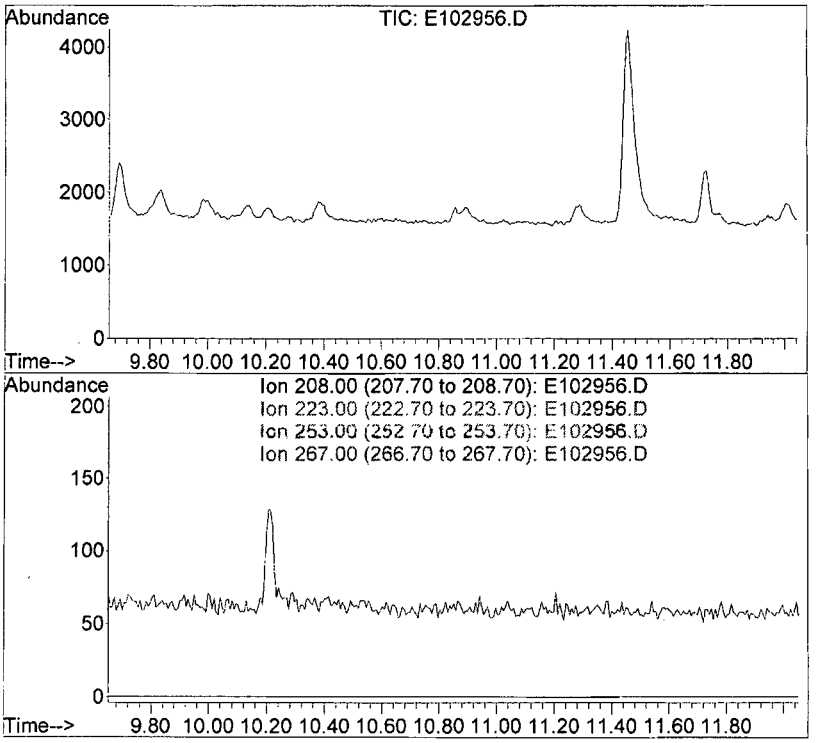


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102956.D
Acq: 1 Nov 2010 10:32 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

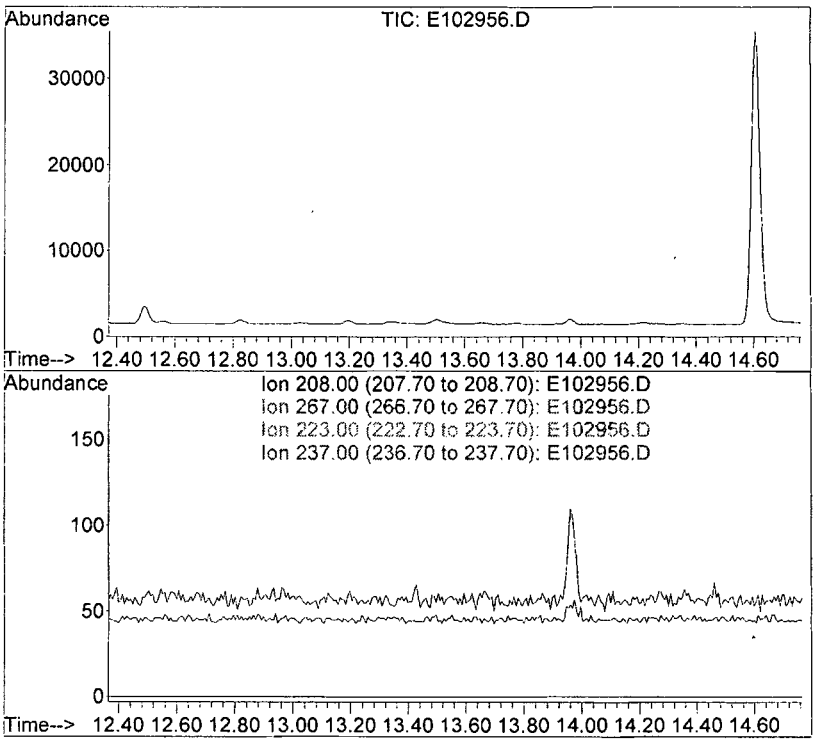


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102956.D
Acq: 1 Nov 2010 10:32 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

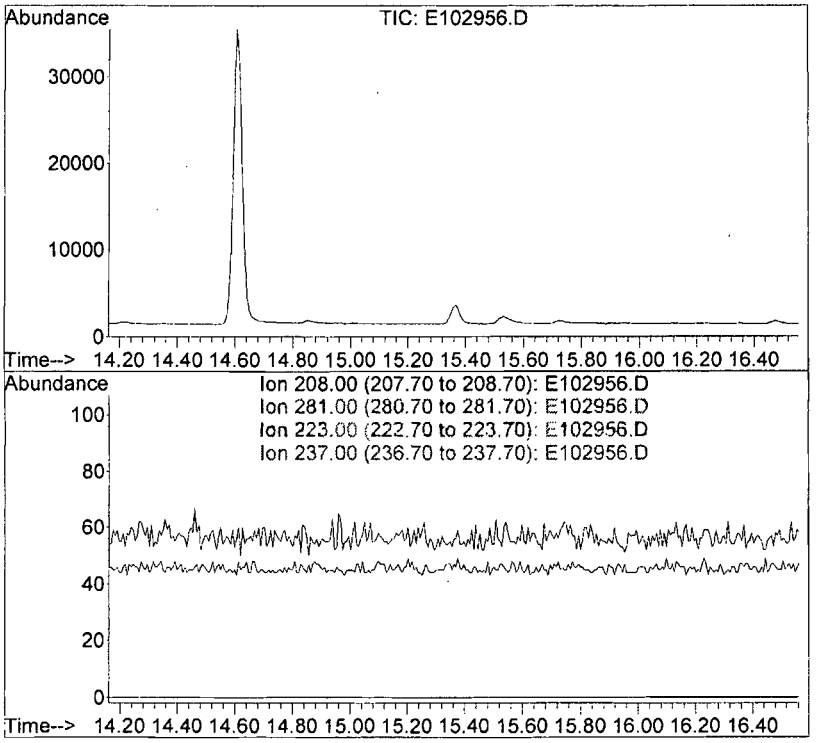


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102956.D
Acq: 1 Nov 2010 10:32 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102956.D
Acq: 1 Nov 2010 10:32 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102956.D
Acq On : 1 Nov 2010 10:32 am
Operator : JAR
Sample : AE101015-27
Misc : BBNPP-D1-C-FD
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 02 14:28:05 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	45349	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	24202	0.451	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	45.00%	
3) Toluene-d8	9.11	98	38261	0.666	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	67.00%	
4) Phenanthrene-d10	28.64	188	77757	0.821	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	82.00%	
5) Benzo(a)pyrene-d12	44.43	264	53127	0.942	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	94.00%	
6) Perylene-d12	44.78	264	57290	0.811	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	81.00%	

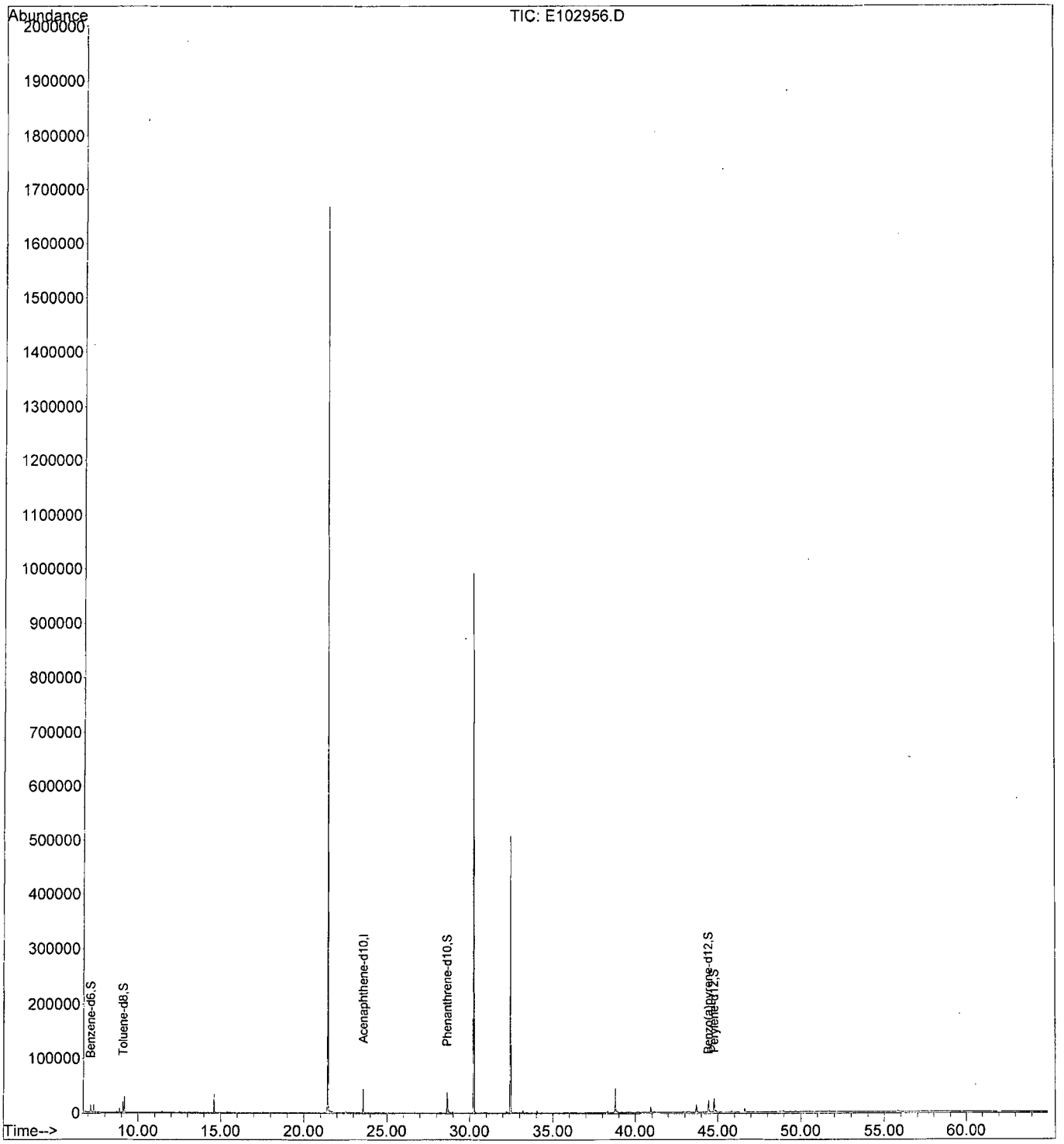
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102956.D
Acq On : 1 Nov 2010 10:32 am
Operator : JAR
Sample : AE101015-27
Misc : BBNPP-D1-C-FD
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Nov 02 14:28:05 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102957.D
Acq On : 1 Nov 2010 11:46 am
Operator : JAR
Sample : AE101019-01
Misc : BBNPP-CW9-C-FD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 02 12:13:11 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

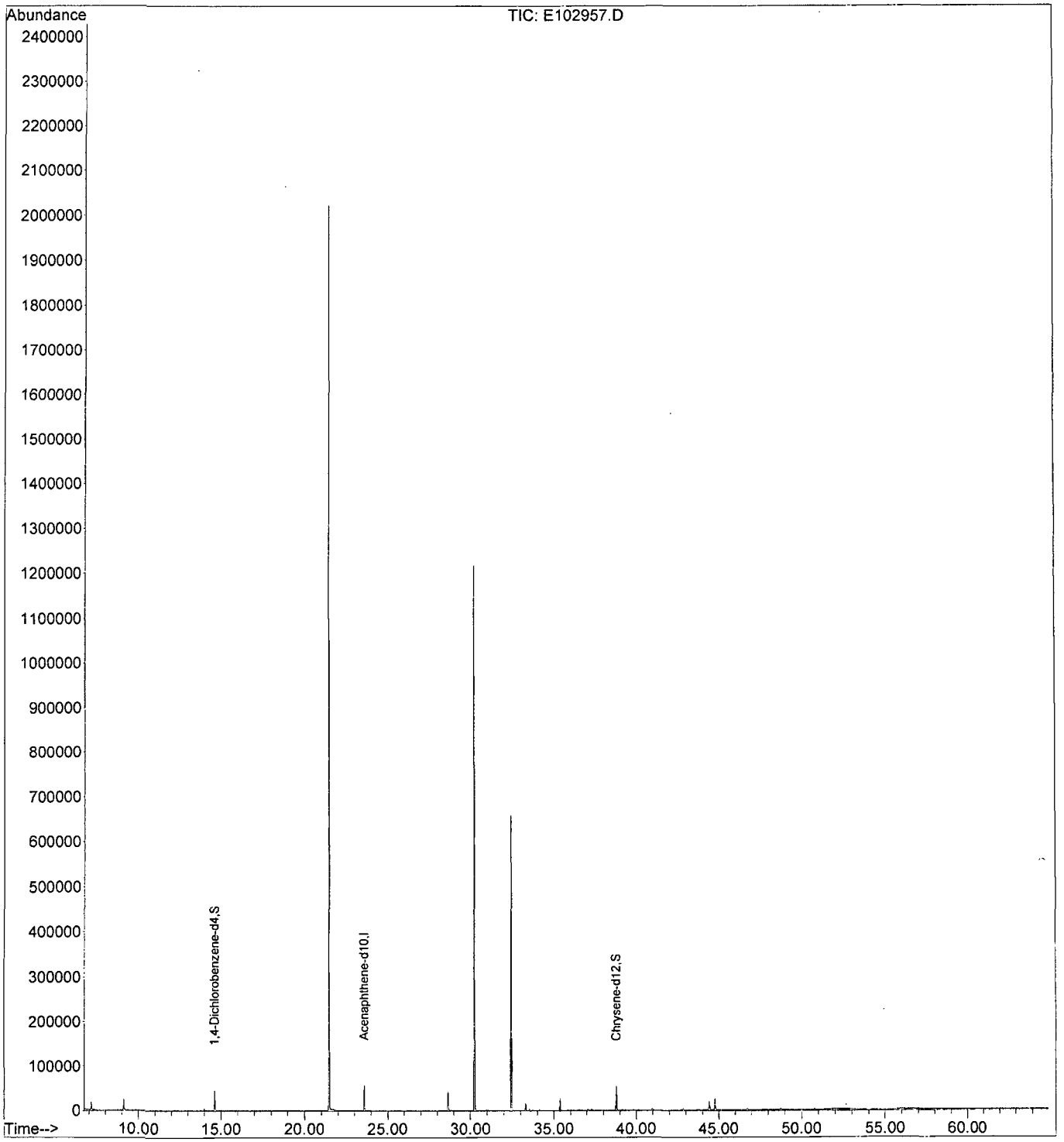
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	59184	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	31797	0.790	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.78	240	90699	0.702	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	63.64%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

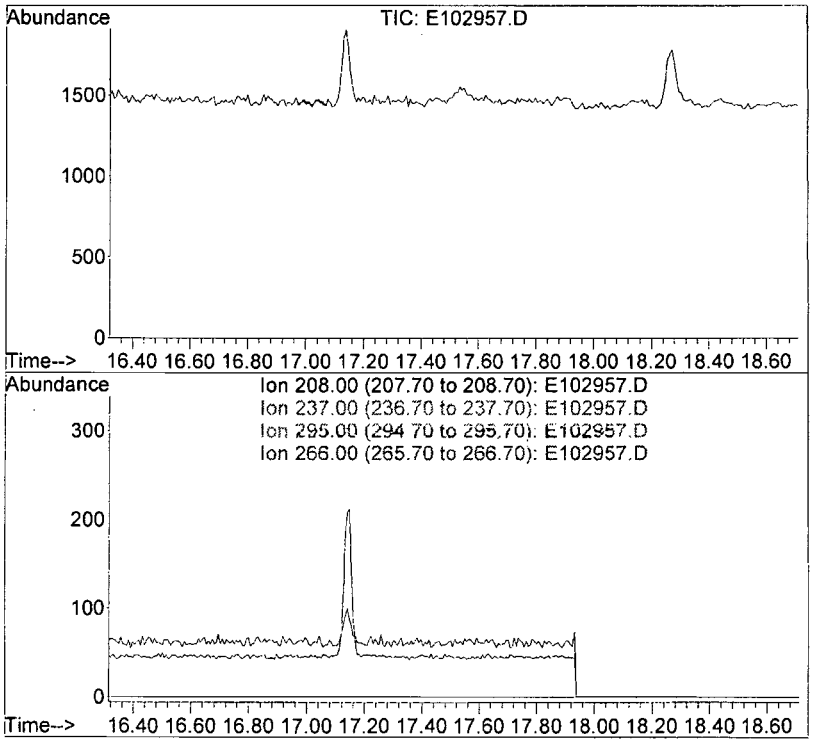
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102957.D
Acq On : 1 Nov 2010 11:46 am
Operator : JAR
Sample : AE101019-01
Misc : BBNPP-CW9-C-FD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 02 12:13:11 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



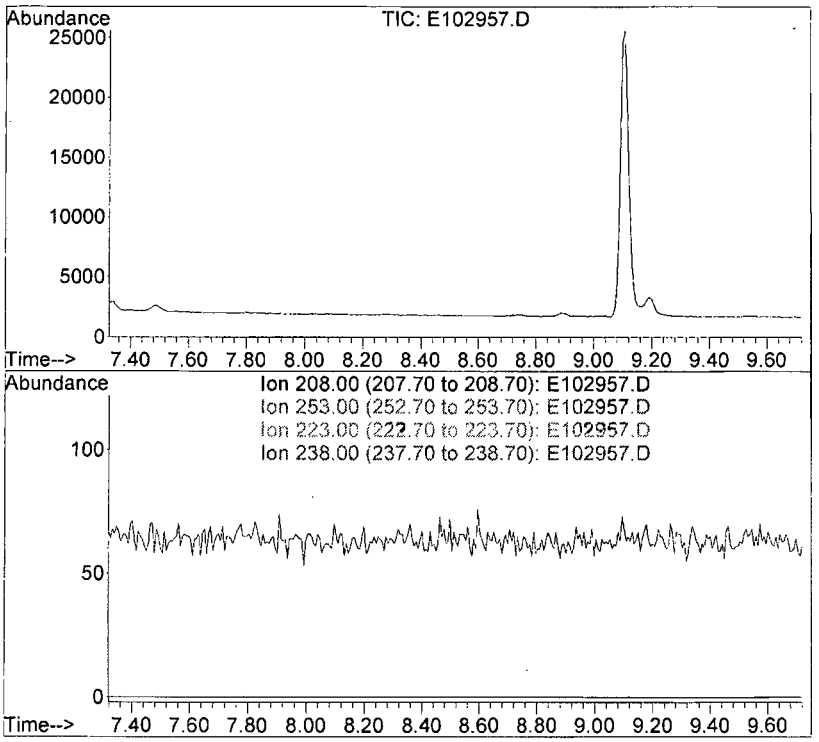


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102957.D
Acq: 1 Nov 2010 11:46 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

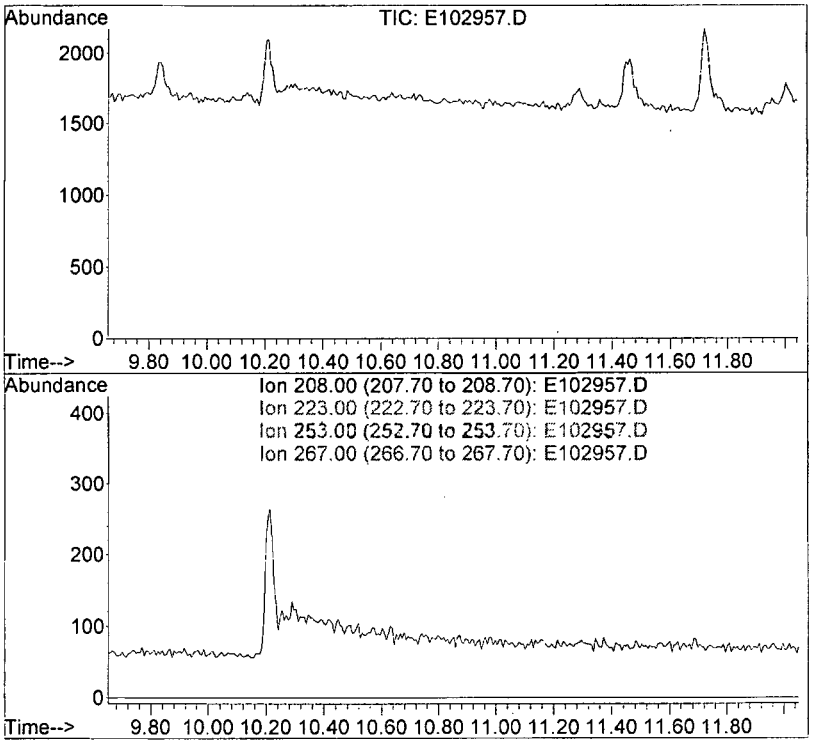


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102957.D
Acq: 1 Nov 2010 11:46 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

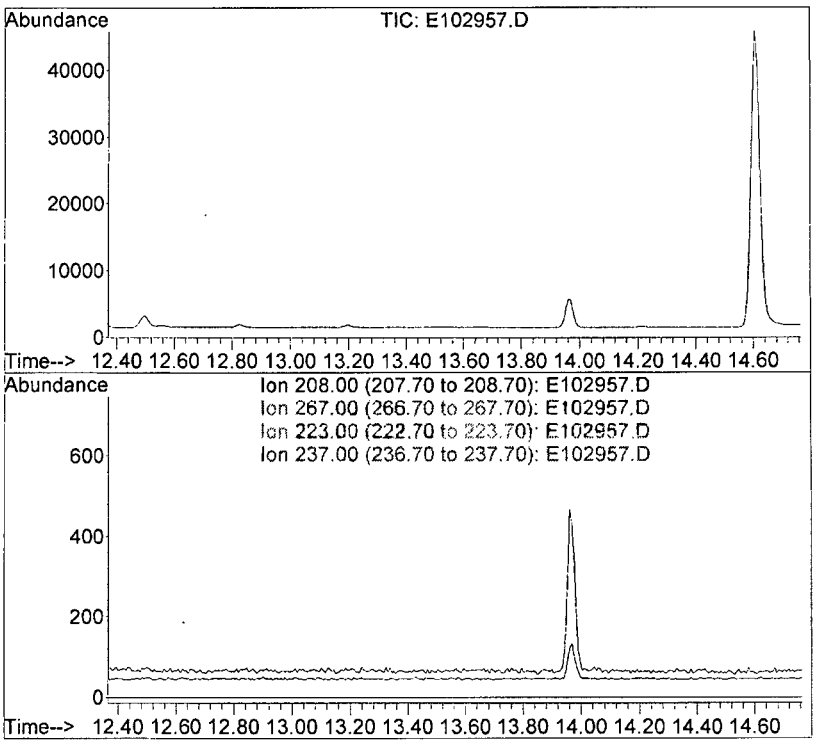


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102957.D
Acq: 1 Nov 2010 11:46 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

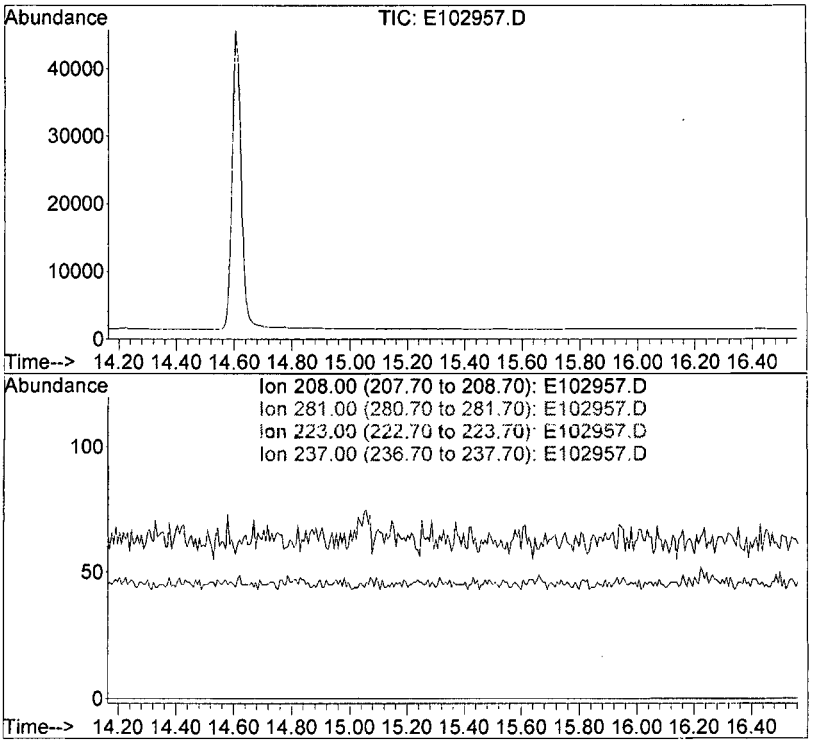


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102957.D
Acq: 1 Nov 2010 11:46 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102957.D
Acq: 1 Nov 2010 11:46 am

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102957.D
Acq On : 1 Nov 2010 11:46 am
Operator : JAR
Sample : AE101019-01
Misc : BBNPP-CW9-C-FD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 02 14:28:06 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	59184	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	27638	0.394	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	39.00%	
3) Toluene-d8	9.11	98	48621	0.648	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	65.00%	
4) Phenanthrene-d10	28.65	188	90367	0.731	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	73.00%	
5) Benzo(a)pyrene-d12	44.43	264	48179	0.654	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	65.00%	
6) Perylene-d12	44.78	264	55442	0.602	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	60.00%	

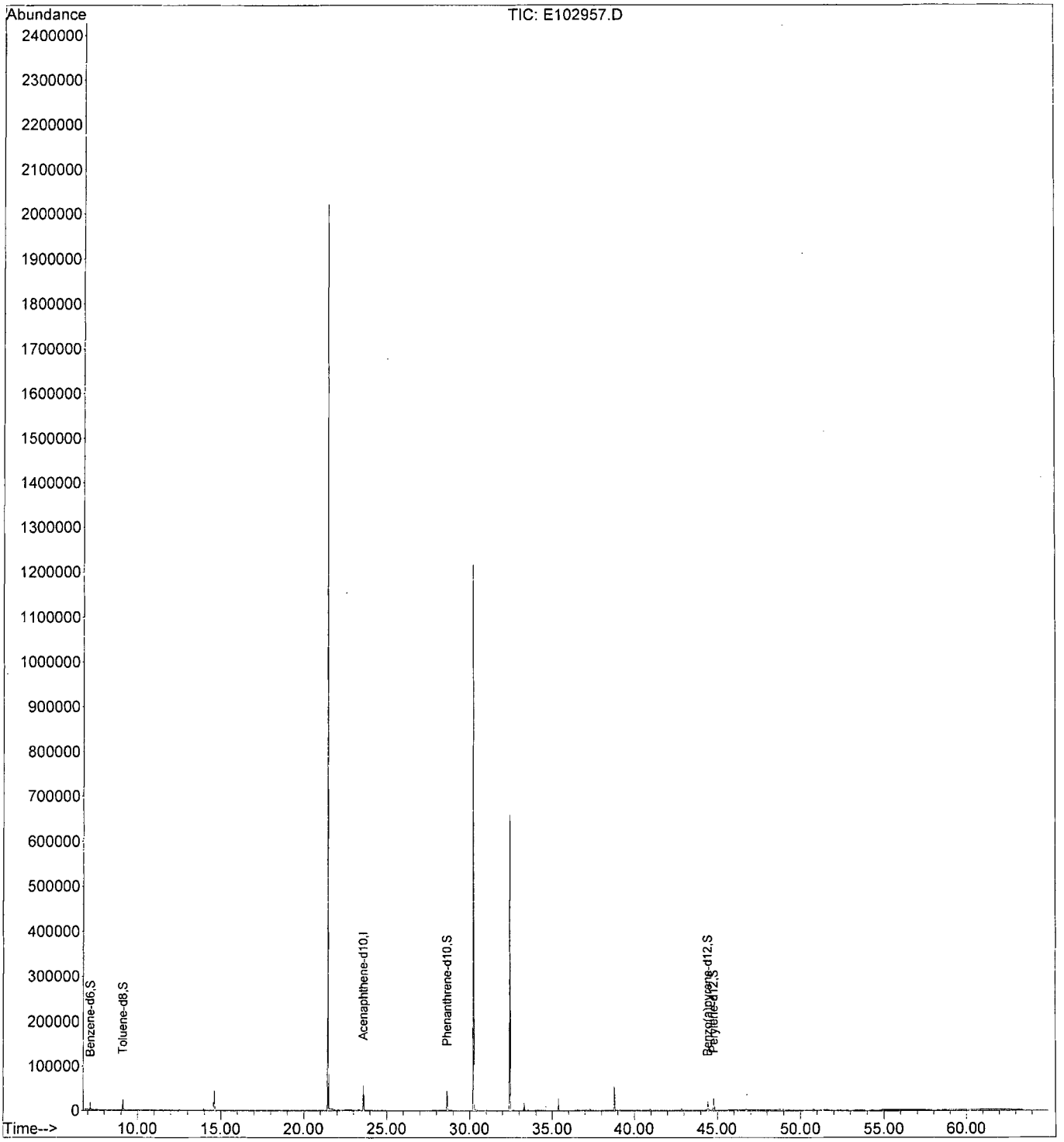
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102957.D
Acq On : 1 Nov 2010 11:46 am
Operator : JAR
Sample : AE101019-01
Misc : BBNPP-CW9-C-FD
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Nov 02 14:28:06 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102958.D
Acq On : 1 Nov 2010 1:03 pm
Operator : JAR
Sample : AE101019-02
Misc : BBNPP-CW15-C
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 02 12:13:14 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

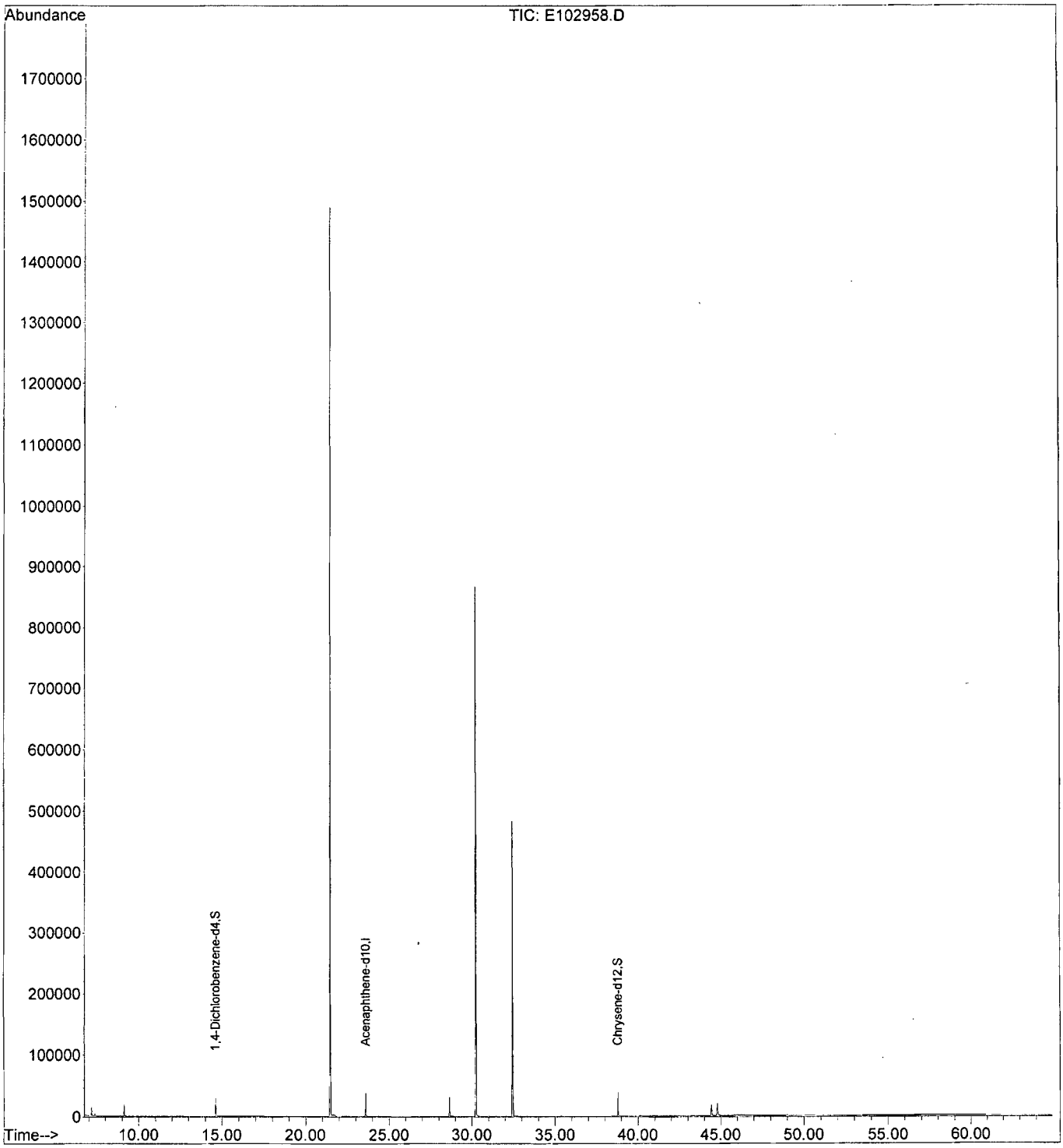
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41271	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	22156	0.790	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	71.82%	
3) Chrysene-d12	38.78	240	65772	0.730	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	66.36%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

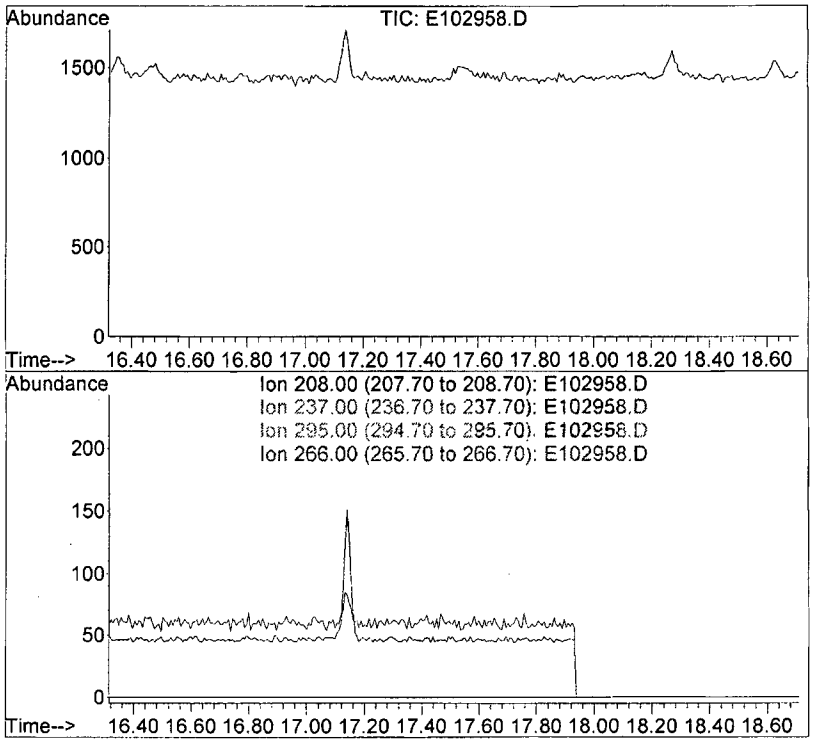
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102958.D
Acq On : 1 Nov 2010 1:03 pm
Operator : JAR
Sample : AE101019-02
Misc : BBNPP-CW15-C
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 02 12:13:14 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



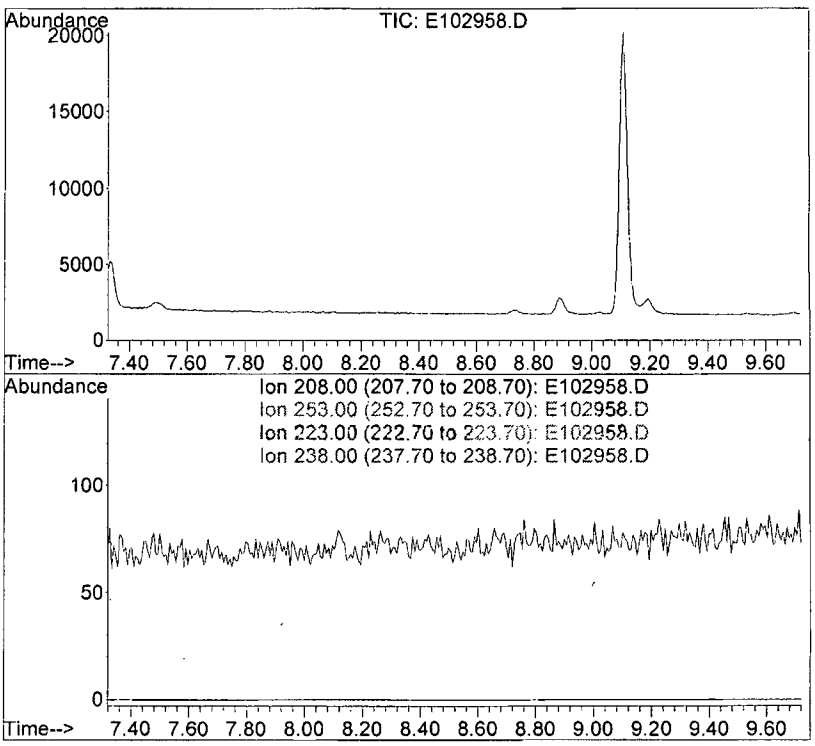


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102958.D
Acq: 1 Nov 2010 1:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

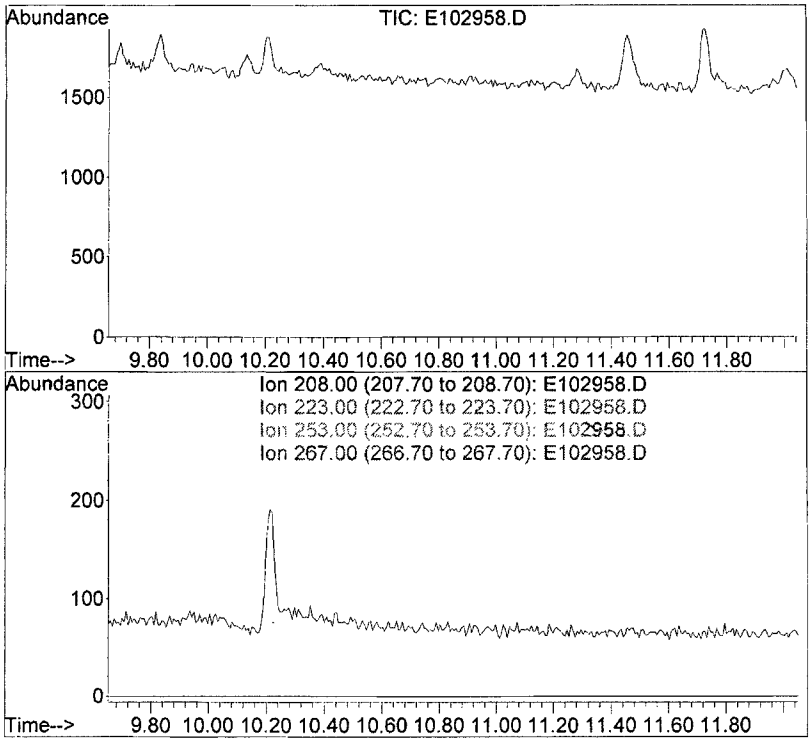


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102958.D
Acq: 1 Nov 2010 1:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

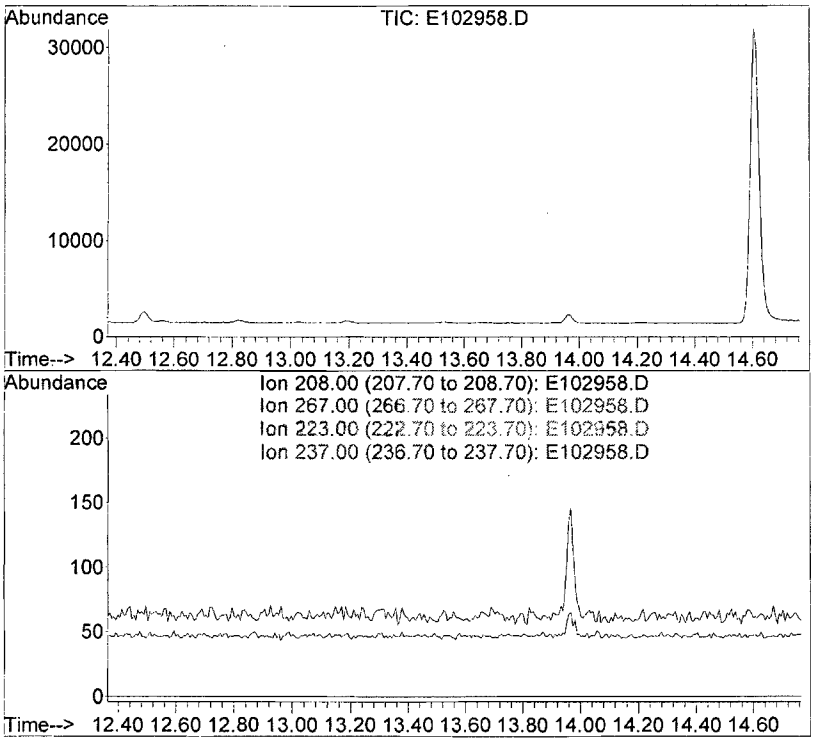


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102958.D
Acq: 1 Nov 2010 1:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

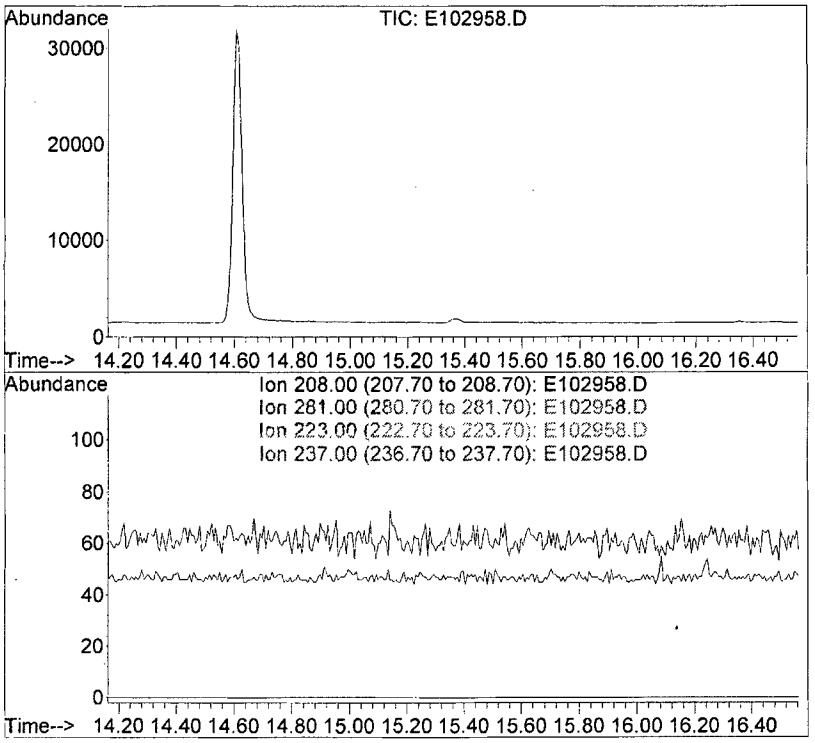


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102958.D
Acq: 1 Nov 2010 1:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102958.D
Acq: 1 Nov 2010 1:03 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102958.D
Acq On : 1 Nov 2010 1:03 pm
Operator : JAR
Sample : AE101019-02
Misc : BBNPP-CW15-C
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 02 14:28:07 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	41271	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.14	84	22841	0.467	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	47.00%	
3) Toluene-d8	9.11	98	36694	0.702	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	70.00%	
4) Phenanthrene-d10	28.64	188	66656	0.773	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	77.00%	
5) Benzo(a)pyrene-d12	44.43	264	43834	0.854	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	85.00%	
6) Perylene-d12	44.78	264	48440	0.754	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	75.00%	

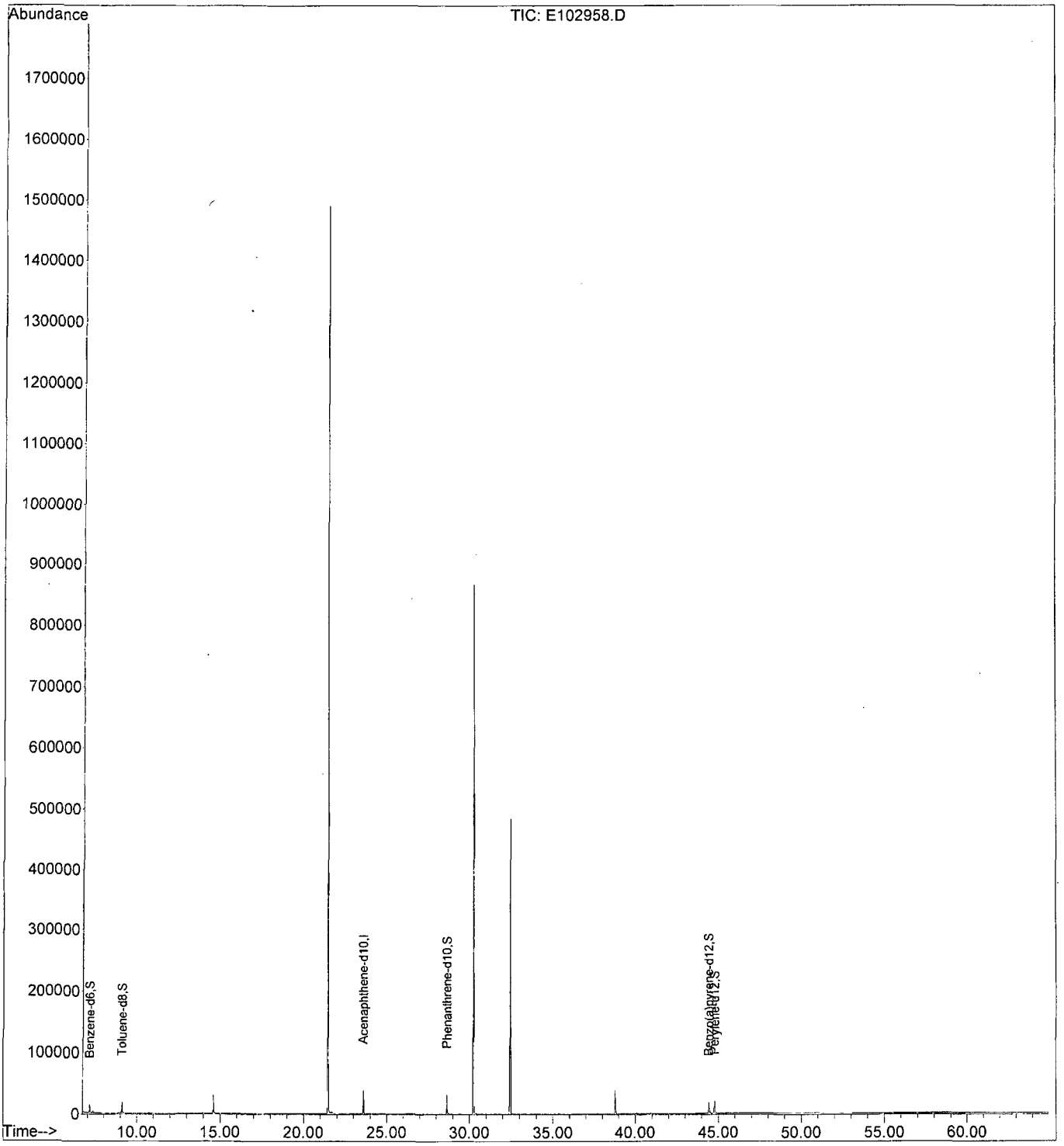
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102958.D
Acq On : 1 Nov 2010 1:03 pm
Operator : JAR
Sample : AE101019-02
Misc : BBNPP-CW15-C
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Nov 02 14:28:07 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102962.D
Acq On : 1 Nov 2010 6:08 pm
Operator : JAR
Sample : AE101019-03
Misc : BBNPP-CW18-C
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 02 12:13:19 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

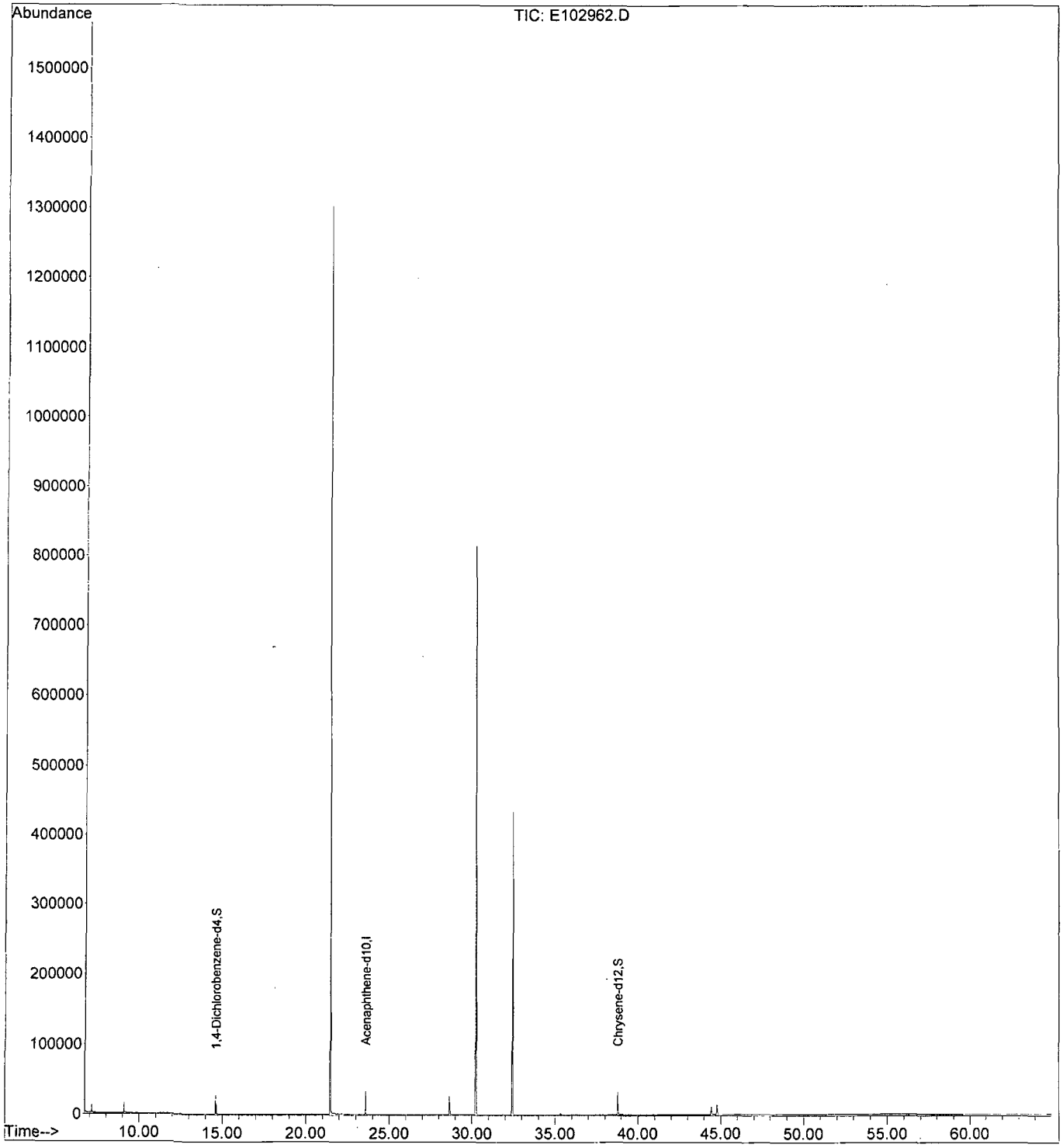
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	35888	1.000	ug/mL	-0.01
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	19797	0.811	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.78	240	54750	0.699	ug/mL	-0.03
Spiked Amount 1.100			Recovery	=	63.64%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

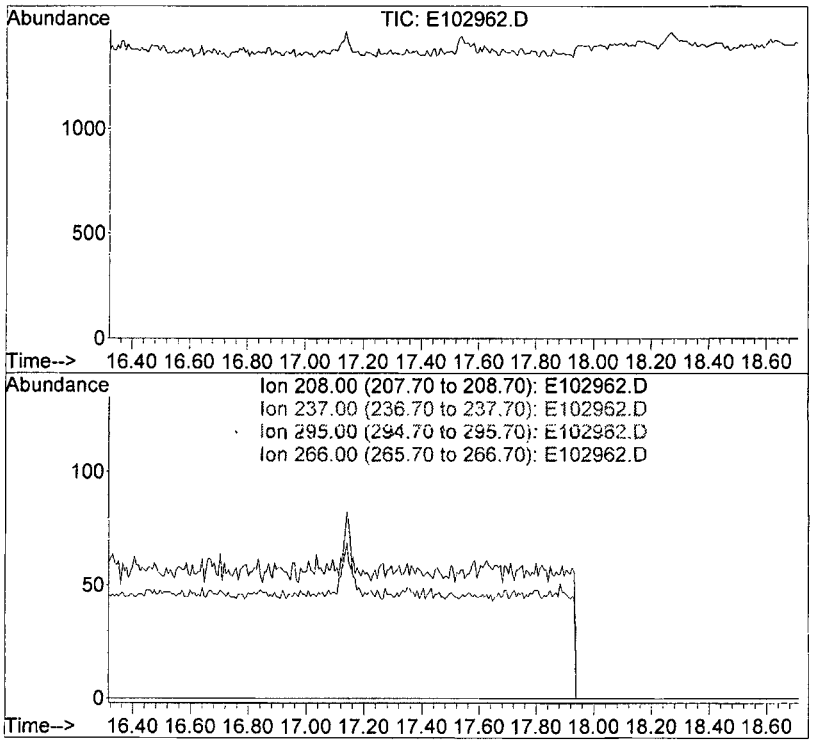
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102962.D
Acq On : 1 Nov 2010 6:08 pm
Operator : JAR
Sample : AE101019-03
Misc : BBNPP-CW18-C
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 02 12:13:19 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



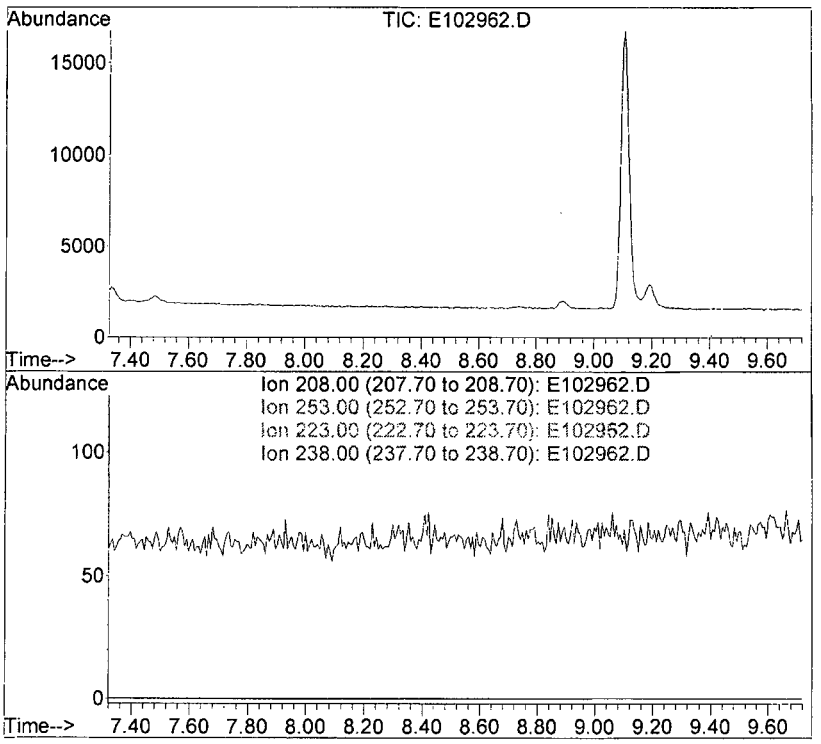


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102962.D
Acq: 1 Nov 2010 6:08 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

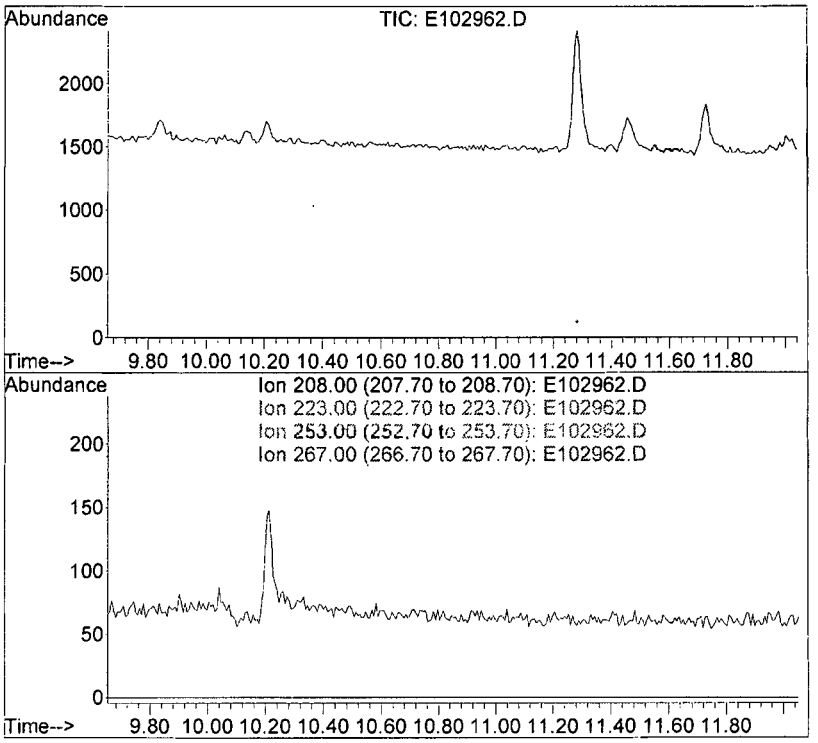


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102962.D
Acq: 1 Nov 2010 6:08 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

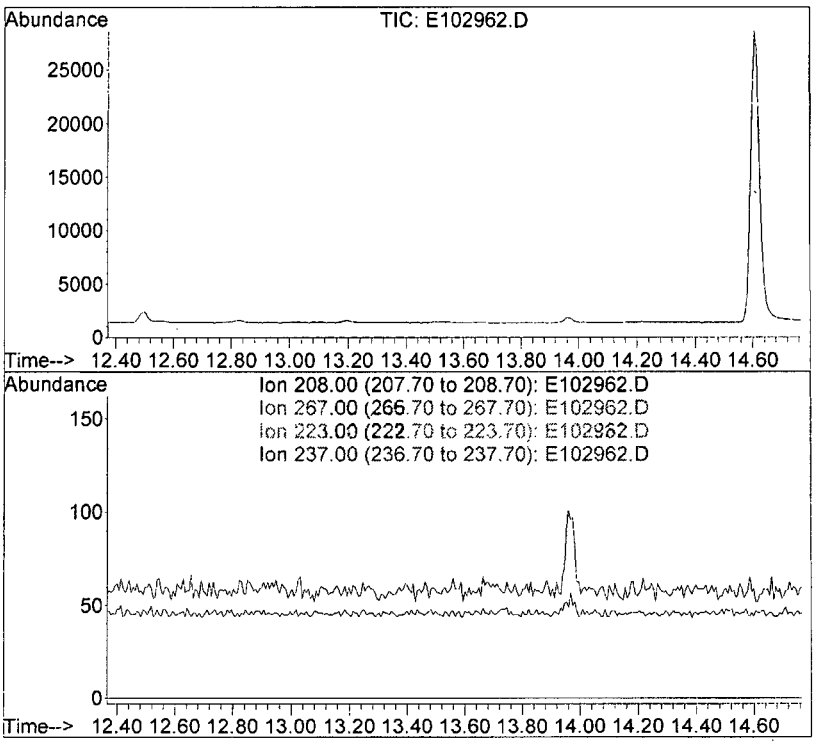


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102962.D
Acq: 1 Nov 2010 6:08 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

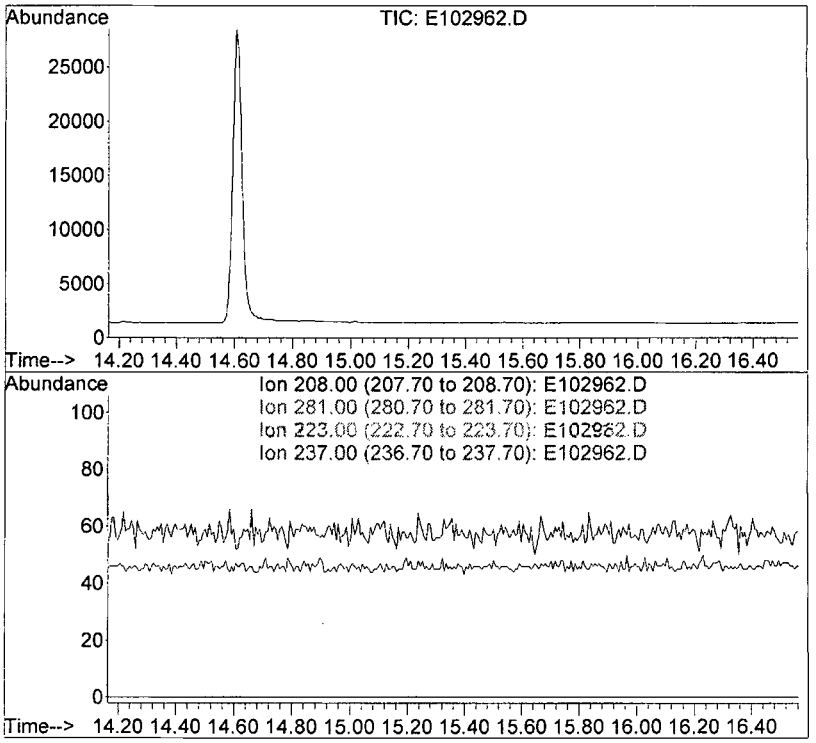


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102962.D
Acq: 1 Nov 2010 6:08 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102962.D
Acq: 1 Nov 2010 6:08 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102962.D
Acq On : 1 Nov 2010 6:08 pm
Operator : JAR
Sample : AE101019-03
Misc : BBNPP-CW18-C
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 02 14:28:11 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	35888	1.000	µg/mL	-0.02
System Monitoring Compounds						
2) Benzene-d6	7.14	84	18893	0.445	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	44.00%	
3) Toluene-d8	9.11	98	30777	0.677	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	68.00%	
4) Phenanthrene-d10	28.65	188	56624	0.756	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	76.00%	
5) Benzo(a)pyrene-d12	44.43	264	28952	0.648	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	65.00%	
6) Perylene-d12	44.78	264	34082	0.610	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	61.00%	

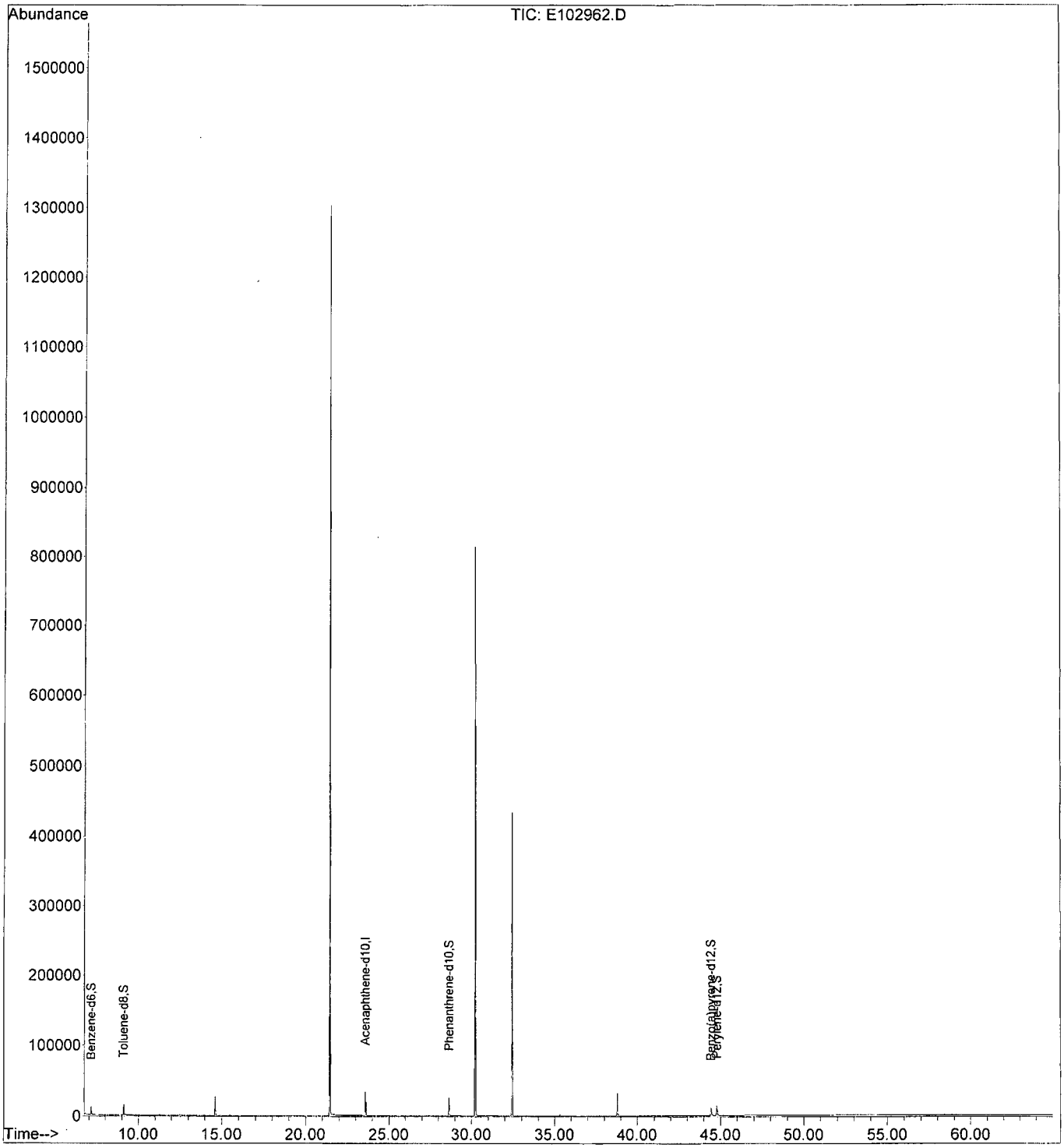
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102962.D
Acq On : 1 Nov 2010 6:08 pm
Operator : JAR
Sample : AE101019-03
Misc : BBNPP-CW18-C
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 02 14:28:11 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102963.D
Acq On : 1 Nov 2010 7:23 pm
Operator : JAR
Sample : AE101019-04
Misc : BBNPP-CW21-C
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Nov 02 12:13:21 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

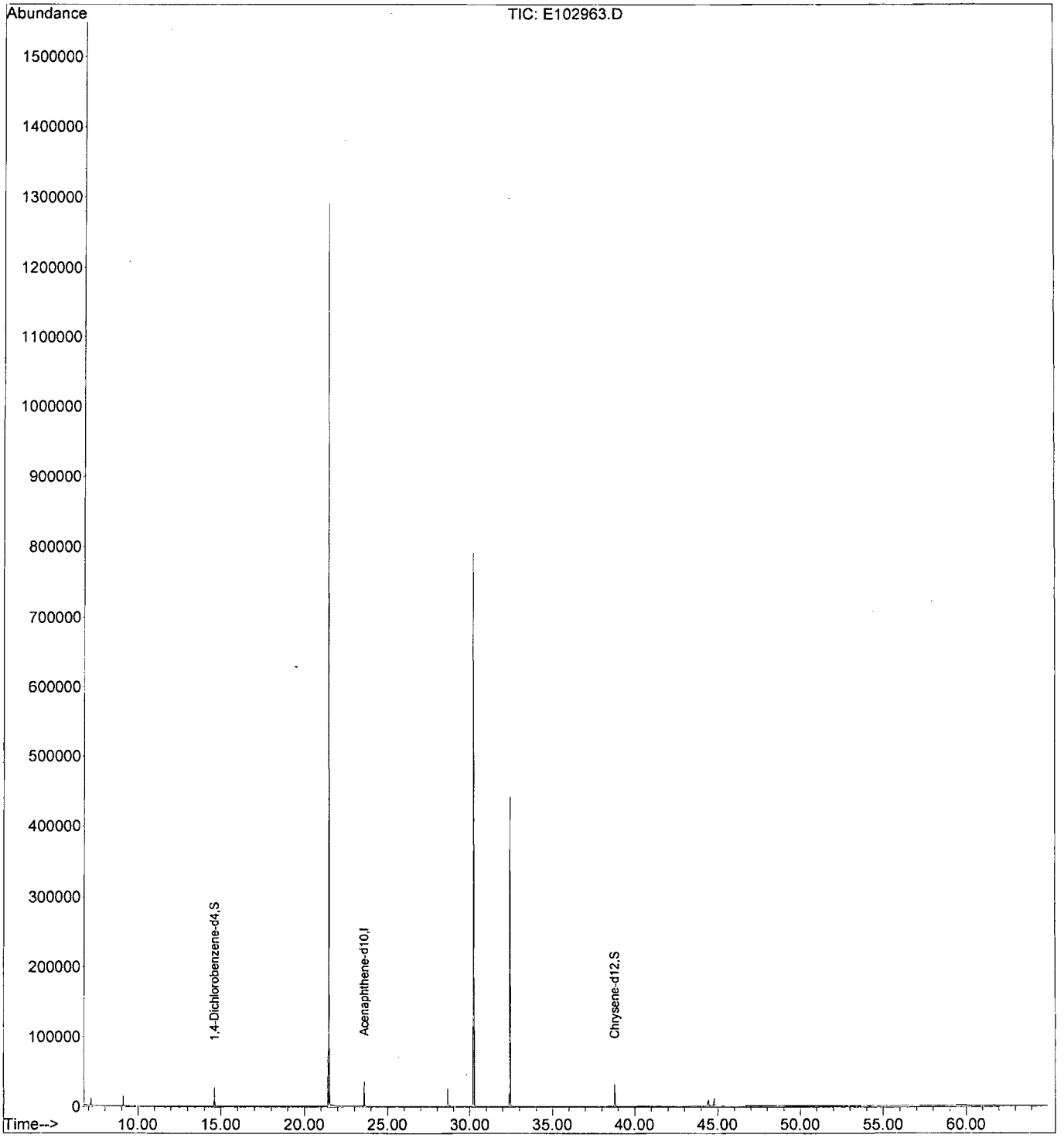
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	37689	1.000	ug/mL	-0.01
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	20666	0.807	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	73.64%	
3) Chrysene-d12	38.78	240	55270	0.672	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	60.91%	
Target Compounds						Qvalue
4) Tetraethyllead	0.00	208	0	N.D.		
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

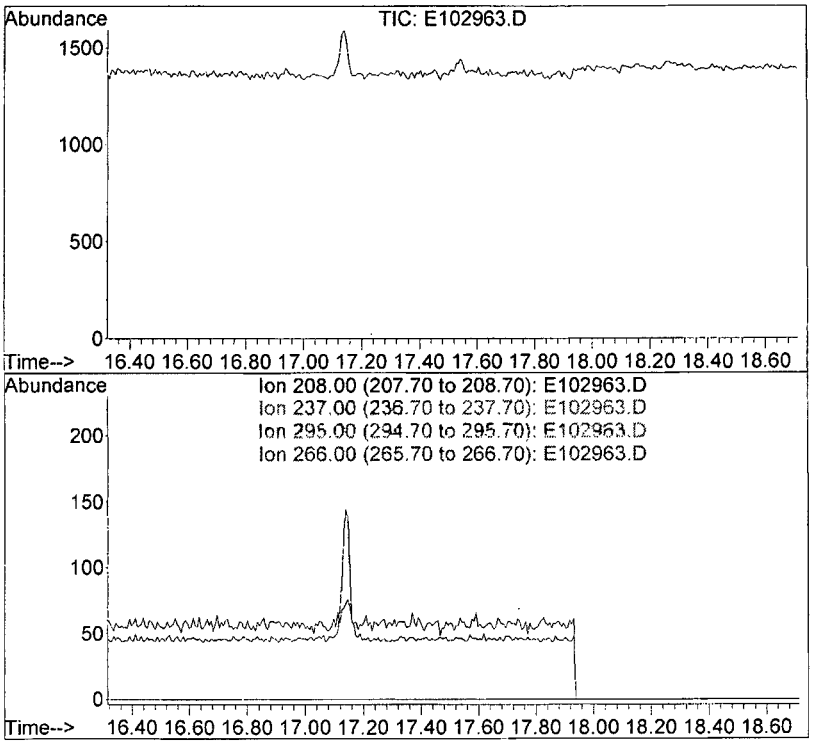
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102963.D
Acq On : 1 Nov 2010 7:23 pm
Operator : JAR
Sample : AE101019-04
Misc : BBNPP-CW21-C
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Nov 02 12:13:21 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



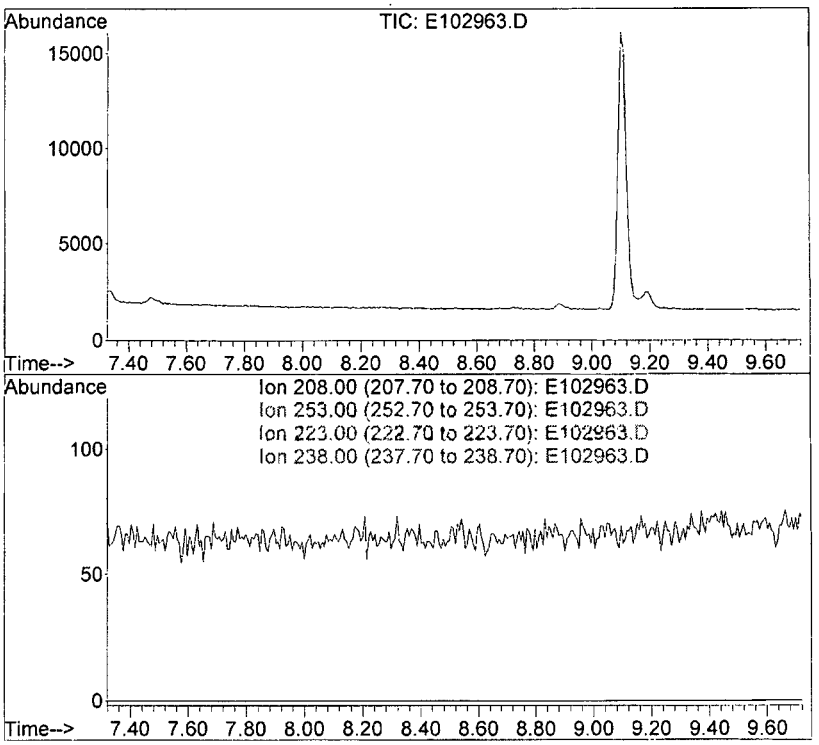


#4
Tetraethyllead
Concen: N.D.
Expected RT: 17.51 min

Lab File: E102963.D
Acq: 1 Nov 2010 7:23 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
237	152.0
295	0.0
266	0.0

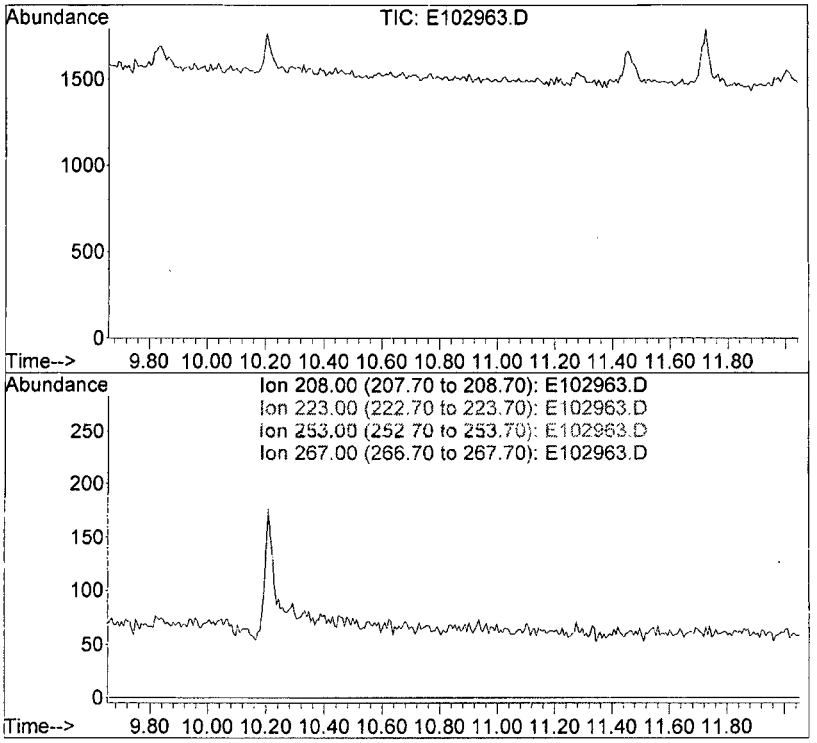


#5
Tetramethyllead
Concen: N.D.
Expected RT: 8.52 min

Lab File: E102963.D
Acq: 1 Nov 2010 7:23 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
253	0.0
223	0.0
238	0.0

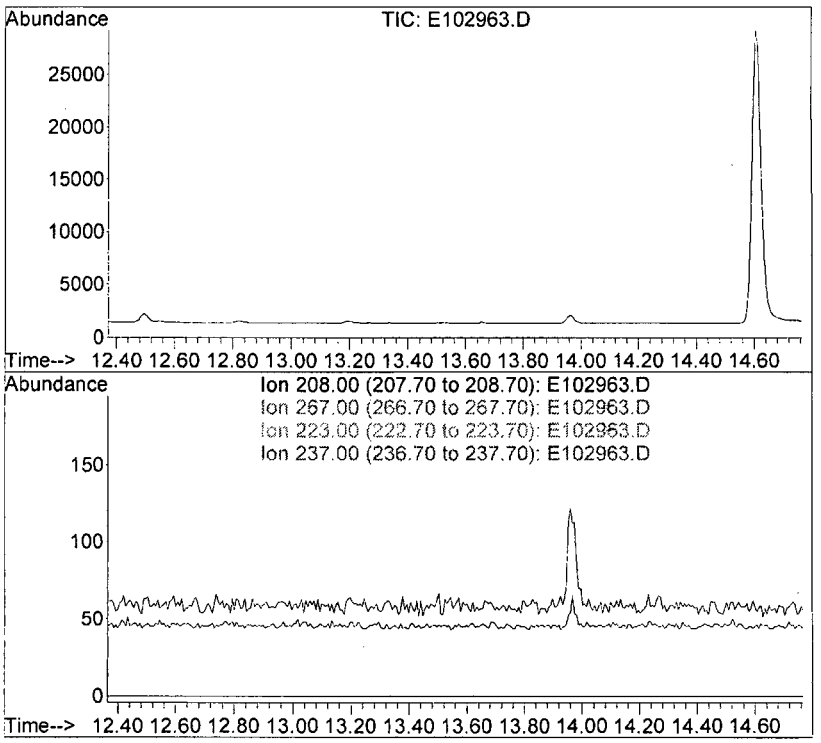


#6
Trimethylethyllead
Concen: N.D.
Expected RT: 10.85 min

Lab File: E102963.D
Acq: 1 Nov 2010 7:23 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
223	0.0
253	0.0
267	0.0

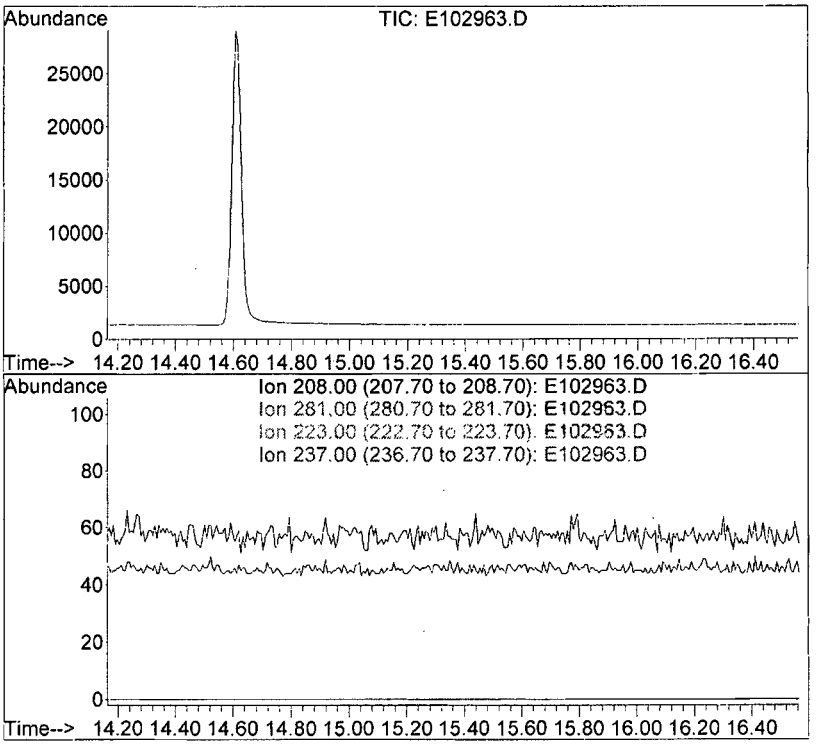


#7
Diethyldimethyllead
Concen: N.D.
Expected RT: 13.57 min

Lab File: E102963.D
Acq: 1 Nov 2010 7:23 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
267	0.0
223	0.0
237	33.8



#8
Methyltriethyllead
Concen: N.D.
Expected RT: 15.36 min

Lab File: E102963.D
Acq: 1 Nov 2010 7:23 pm

Tgt Ion: 208

Sig	Exp Ratio
208	100
281	0.0
223	0.0
237	104.5

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102963.D
Acq On : 1 Nov 2010 7:23 pm
Operator : JAR
Sample : AE101019-04
Misc : BBNPP-CW21-C
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Nov 02 14:28:13 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	37689	1.000	µg/mL	-0.02
System Monitoring Compounds						
2) Benzene-d6	7.13	84	17111	0.383	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	38.00%	
3) Toluene-d8	9.10	98	29549	0.619	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	62.00%	
4) Phenanthrene-d10	28.64	188	55403	0.704	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	70.00%	
5) Benzo(a)pyrene-d12	44.43	264	24030	0.513	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	51.00%	
6) Perylene-d12	44.78	264	29252	0.498	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	50.00%	

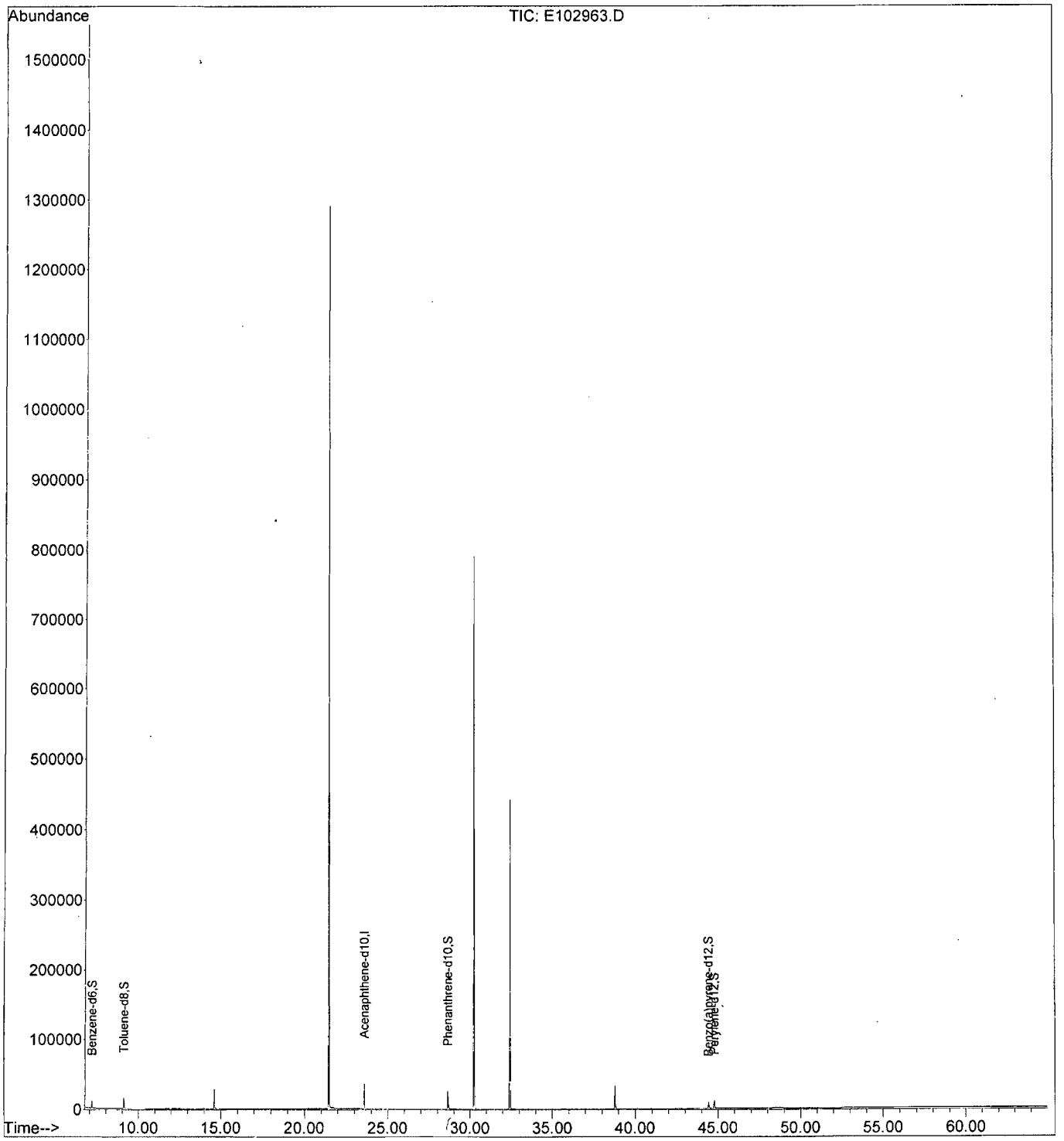
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102963.D
Acq On : 1 Nov 2010 7:23 pm
Operator : JAR
Sample : AE101019-04
Misc : BBNPP-CW21-C
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Nov 02 14:28:13 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Appendix D

Calibration

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E102901.D	0.	A978 — SURROGATE CHECK		29 Oct 2010 12:49
2	2	E102902.D	0.	DCM		29 Oct 2010 14:19
3	3	E102903.D	0.	B123		29 Oct 2010 15:37
4	4	E102904.D	0.	B035		29 Oct 2010 16:53
5	5	E102905.D	0.	B036 — ICAL FOR ALKYL LEAD COMPOUNDS ONLY		29 Oct 2010 18:10
6	6	E102906.D	0.	B037 E101029.M		29 Oct 2010 19:27
7	7	E102907.D	0.	B038		29 Oct 2010 20:44
8	8	E102908.D	0.	B039		29 Oct 2010 22:00
9	9	E102909.D	0.	DCM		29 Oct 2010 23:17
10	10	E102910.D	0.	QC101020-SB	Soil Blank	30 Oct 2010 00:33
11	11	E102911.D	0.	QC101020-SB1	Soil Blank	30 Oct 2010 01:49
12	12	E102912.D	0.	QC101020-AB	Aqueous Blank	30 Oct 2010 03:05
13	13	E102913.D	0.	QC101020-SBS	Soil Blank Spike	30 Oct 2010 04:21
14	14	E102914.D	0.	QC101020-ABS	Aqueous Blank Spike	30 Oct 2010 05:36
15	15	E102915.D	0.	AE101015-01	BBNPP-CW1-C	30 Oct 2010 06:52
16	16	E102916.D	0.	AE101015-02	BBNPP-CW2-C	30 Oct 2010 08:07
17	17	E102917.D	0.	AE101015-03	BBNPP-CW3-C	30 Oct 2010 09:22
18	18	E102918.D	0.	AE101015-04	BBNPP-CW6-C	30 Oct 2010 10:38
19	19	E102919.D	0.	AE101015-05	BBNPP-CW9-C	30 Oct 2010 11:53
20	20	E102920.D	0.	DCM		30 Oct 2010 13:09
21	21	E102921.D	0.	A978 ✓		30 Oct 2010 14:25
22	22	E102922.D	0.	B037 ✓		30 Oct 2010 15:41
23	23	E102923.D	0.	AE101015-06	BBNPP-CW12-C	30 Oct 2010 16:57
24	24	E102924.D	0.	AE101015-07	BBNPP-CW5-C	30 Oct 2010 18:13
25	25	E102925.D	0.	AE101015-07MS	Matrix Spike of BBNPP-CW5-C	30 Oct 2010 19:29
26	26	E102926.D	0.	AE101015-07MSD	Matrix Spike Duplicate of BBNPP-CW5-C	30 Oct 2010 20:45
27	27	E102927.D	0.	AE101015-08	BBNPP-CW8-C	30 Oct 2010 22:01
28	28	E102928.D	0.	AE101015-09	BBNPP-CW11-C	30 Oct 2010 23:17
29	29	E102929.D	0.	AE101015-10	BBNPP-CW14-C	31 Oct 2010 00:33
30	30	E102930.D	0.	AE101015-11	BBNPP-CW17-C	31 Oct 2010 01:49
31	31	E102931.D	0.	AE101015-12	BBNPP-CW20-C	31 Oct 2010 03:05
32	32	E102932.D	0.	AE101015-13	BBNPP-CW23-C	31 Oct 2010 04:21
33	33	E102933.D	0.	DCM		31 Oct 2010 05:37
34	34	E102934.D	0.	A978 ✓		31 Oct 2010 06:53
35	35	E102935.D	0.	B037 ✓		31 Oct 2010 08:09
36	36	E102936.D	0.	AE101015-14	BBNPP-CW20-C FD	31 Oct 2010 09:25

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
37	37	E102937.D	0.	AE101015-15	BBNPP-D2	31 Oct 2010 10:41
38	38	E102938.D	0.	AE101015-16	BBNPP-D1	31 Oct 2010 11:57
39	39	E102939.D	0.	AE101015-17	BBNPP-R-C	31 Oct 2010 13:14
40	40	E102940.D	0.	AE101015-17MS	Matrix Spike of BBNPP-R-C	31 Oct 2010 14:30
41	41	E102941.D	0.	AE101015-17MSD	Matrix Spike Duplicate of BBNPP-R-C	31 Oct 2010 15:47
42	42	E102942.D	0.	AE101015-18	BBNPP-CW22-C	31 Oct 2010 17:03
43	43	E102943.D	0.	AE101015-19	BBNPP-C-EB	31 Oct 2010 18:19
44	44	E102944.D	0.	AE101015-20	BBNPP-PB	31 Oct 2010 19:35
45	45	E102945.D	0.	AE101015-20MS	Matrix Spike of BBNPP-PB	31 Oct 2010 20:51
46	46	E102946.D	0.	DCM ✓		31 Oct 2010 22:06
47	47	E102947.D	0.	A978 ✓		31 Oct 2010 23:21
48	48	E102948.D	0.	B037 ✓		1 Nov 2010 00:36
49	49	E102949.D	0.	AE101015-20MSD	Matrix Spike Duplicate of BBNPP-PB	1 Nov 2010 01:51
50	50	E102950.D	0.	AE101015-21	BBNPP-CW4-C	1 Nov 2010 03:06
51	51	E102951.D	0.	AE101015-22	BBNPP-CW7-C	1 Nov 2010 04:20
52	52	E102952.D	0.	AE101015-23	BBNPP-CW10-C	1 Nov 2010 05:35
53	53	E102953.D	0.	AE101015-24	BBNPP-CW13-C	1 Nov 2010 06:49
54	54	E102954.D	0.	AE101015-25	BBNPP-CW16-C	1 Nov 2010 08:03
55	55	E102955.D	0.	AE101015-26	BBNPP-CW19-C	1 Nov 2010 09:18
56	56	E102956.D	0.	AE101015-27	BBNPP-D1-C-FD	1 Nov 2010 10:32
57	57	E102957.D	0.	AE101019-01	BBNPP-CW9-C-FD	1 Nov 2010 11:46
58	58	E102958.D	0.	AE101019-02	BBNPP-CW15-C	1 Nov 2010 13:03
59	59	E102959.D	0.	DCM		1 Nov 2010 14:19
60	60	E102960.D	0.	A978 ✓		1 Nov 2010 15:35
61	61	E102961.D	0.	B037 ✓		1 Nov 2010 16:52
62	62	E102962.D	0.	AE101019-03	BBNPP-CW18-C	1 Nov 2010 18:08
63	63	E102963.D	0.	AE101019-04	BBNPP-CW21-C	1 Nov 2010 19:23
64	64	E102964.D	0.	[redacted]	[redacted]	1 Nov 2010 20:39
65	65	E102965.D	0.	[redacted]	[redacted]	1 Nov 2010 21:54
66	66	E102966.D	0.	[redacted]	[redacted]	1 Nov 2010 23:09
67	67	E102967.D	0.	[redacted]	[redacted]	2 Nov 2010 00:24

Injection Log

Directory: j:\1\DATA\E101029

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
68	68	E102968.D	0.	[redacted]	[redacted]	2 Nov 2010 01:39
69	69	E102969.D	0.	[redacted]	[redacted]	2 Nov 2010 02:54
70	70	E102970.D	0.	[redacted]	[redacted]	2 Nov 2010 04:08
71	71	E102971.D	0.	DCM		2 Nov 2010 05:23
72	72	E102972.D	0.	A978 ✓		2 Nov 2010 06:38
73	73	E102973.D	0.	B037 ✓	TEL @ 1.0	2 Nov 2010 07:53

Response Factor Report El Camino

Method Path : J:\1\METHODS\
Method File : E101029.M
Title : Hydrocarbon Fingerprinting - MS Calibration
Last Update : Mon Nov 01 08:01:06 2010
Response Via : Initial Calibration

Calibration Files
0.01=E102903.D 0.05=E102904.D 0.25=E102905.D
1.00=E102906.D 5.00=E102907.D 20.0=E102908.D

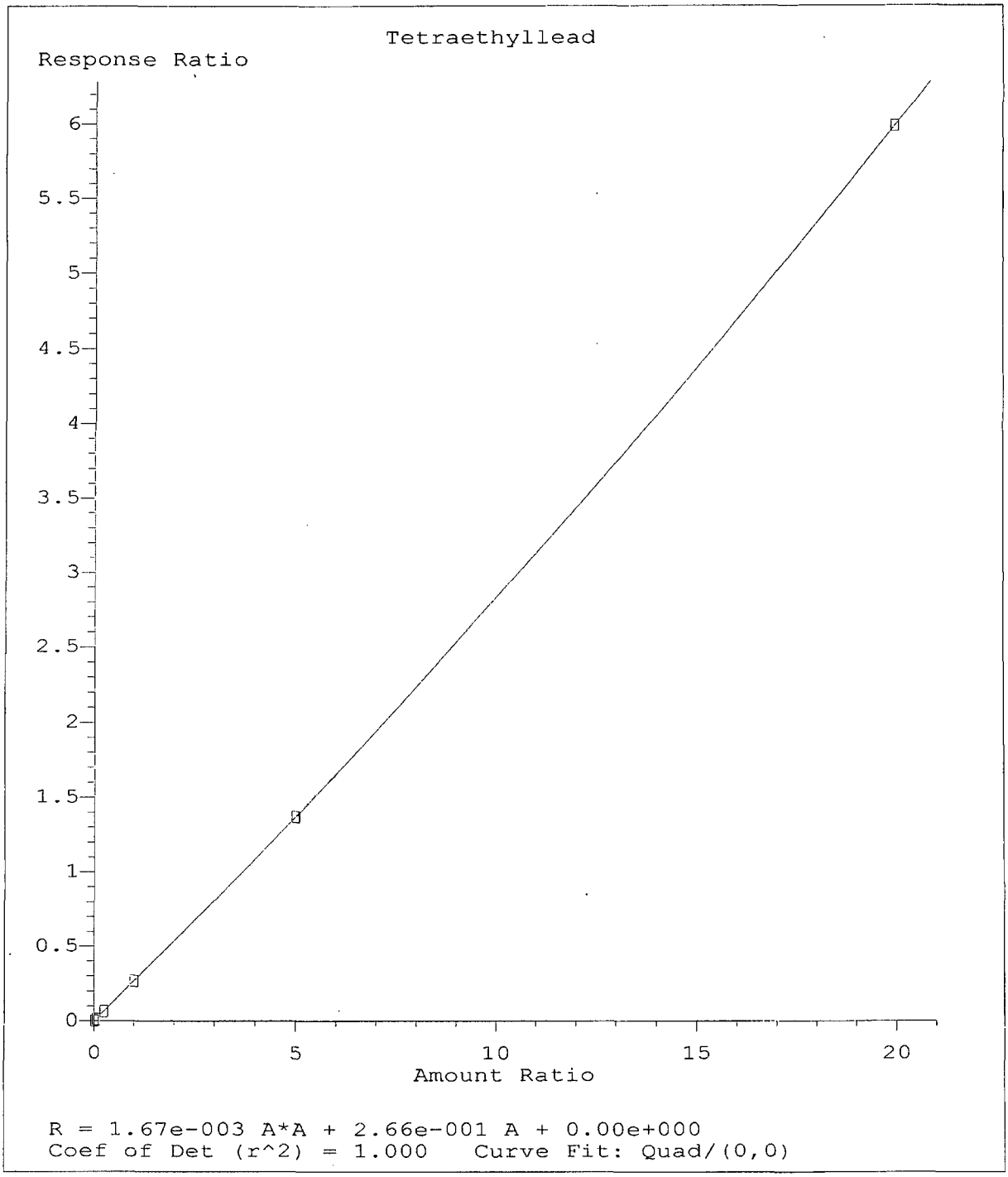
		Compound	0.01	0.05	0.25	1.00	5.00	20.0	Avg	%RSD	
1)	I	Acenaphthene-d10	----------ISTD----------								
2)	S	1,4-Dichlorobenze	0.546	0.710	0.710	0.696	0.721	0.697	0.680	9.76	
3)	S	Chrysene-d12	1.763	2.260	2.265	2.297	2.291	2.228	2.184	9.50	
4)	J1	Tetraethyllead	0.186	0.210	0.259	0.268	0.274	0.299	0.249	17.05	Q
5)	J2	Tetramethyllead	0.186	0.210	0.259	0.268	0.274	0.299	0.249	17.05	↓
6)	J2	Trimethylethyllea	0.186	0.210	0.259	0.268	0.274	0.299	0.249	17.05	↓
7)	J2	Diethyldimethylle	0.186	0.210	0.259	0.268	0.274	0.299	0.249	17.05	↓
8)	J2	Methyltriethyllea	0.186	0.210	0.259	0.268	0.274	0.299	0.249	17.05	↓

(#) = Out of Range

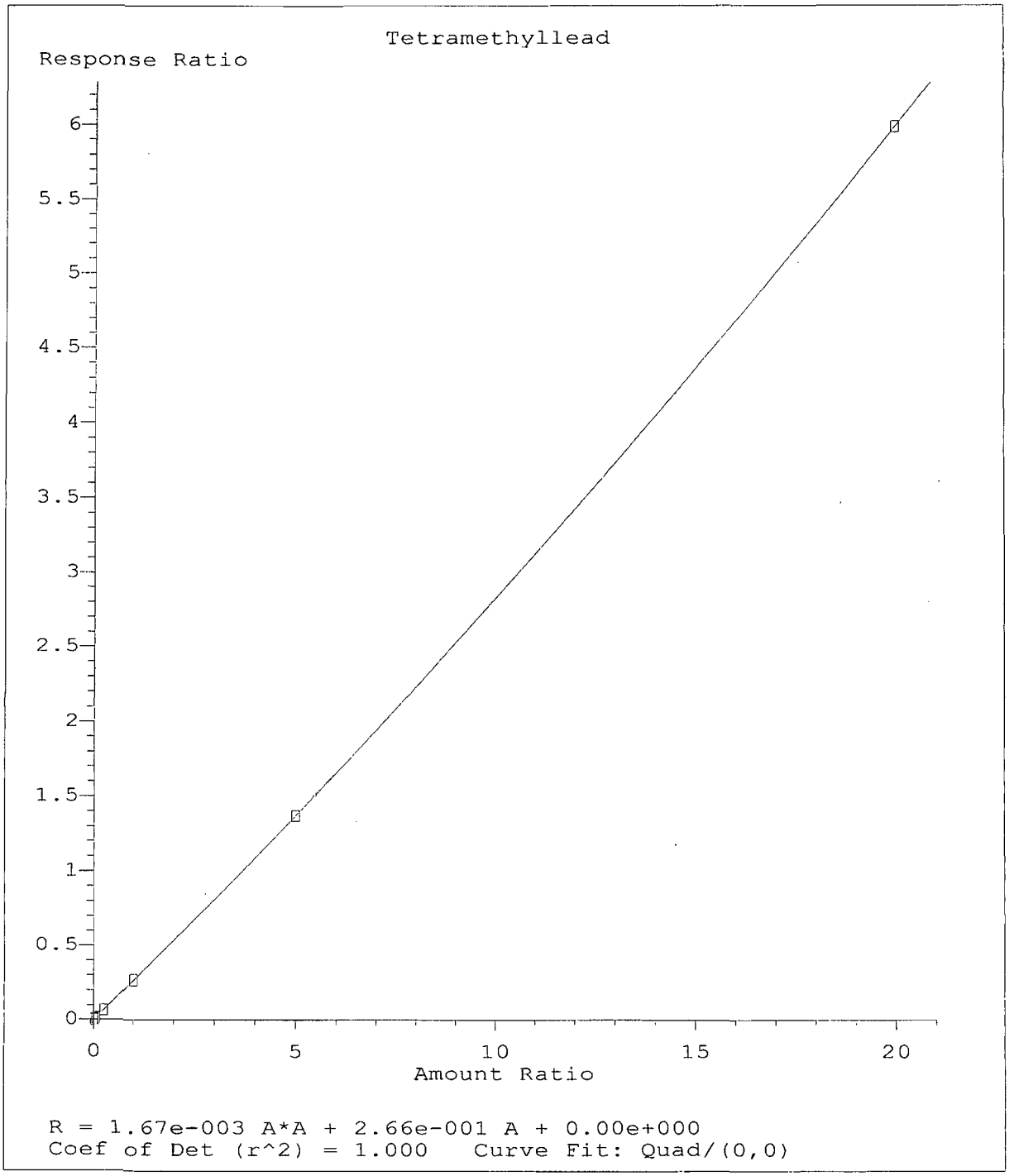
Q - QUADRATIC REGRESSION APPLIED

$r^2 = 1.000$ - EXCELLENT FIT

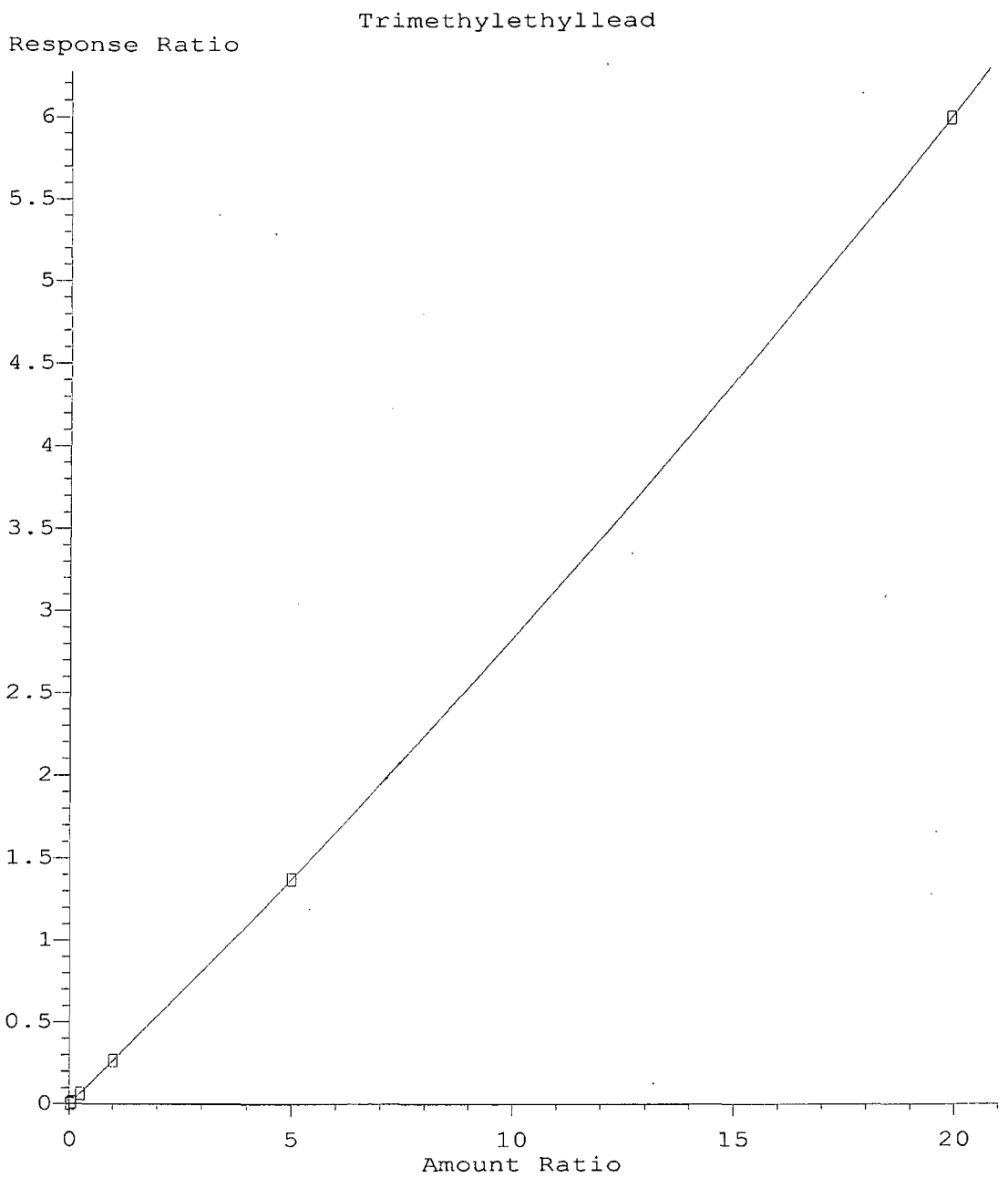
JM
11/2/10



Method Name: J:\1\METHODS\E101029.M
Calibration Table Last Updated: Mon Nov 01 08:01:06 2010

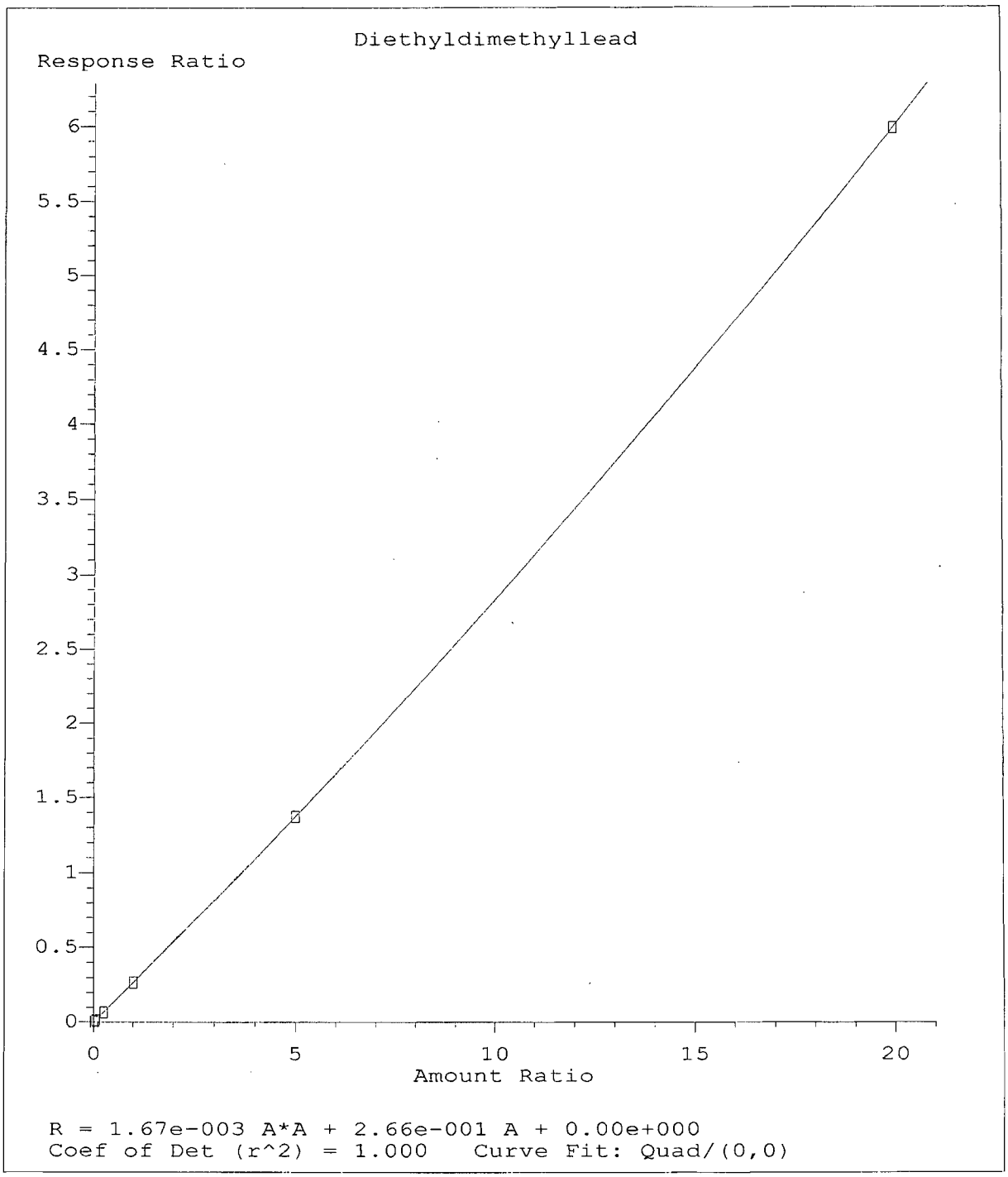


Method Name: J:\1\METHODS\E101029.M
Calibration Table Last Updated: Mon Nov 01 08:01:06 2010

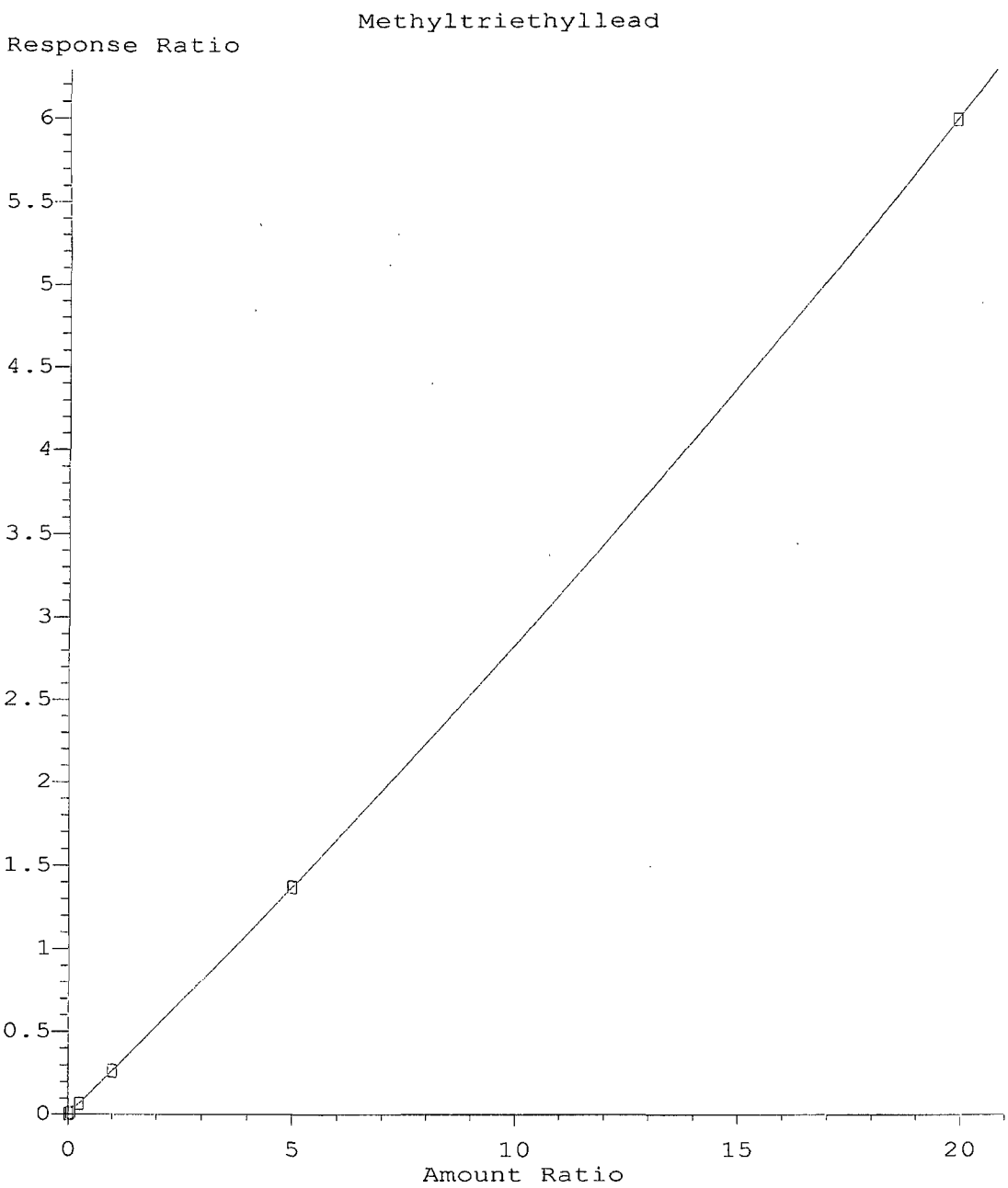


R = 1.67e-003 A*A + 2.66e-001 A + 0.00e+000
Coef of Det (r^2) = 1.000 Curve Fit: Quad/(0,0)

Method Name: J:\1\METHODS\E101029.M
Calibration Table Last Updated: Mon Nov 01 08:01:06 2010



Method Name: J:\1\METHODS\E101029.M
Calibration Table Last Updated: Mon Nov 01 08:01:06 2010



R = 1.67e-003 A*A + 2.66e-001 A + 0.00e+000
Coef of Det (r^2) = 1.000 Curve Fit: Quad/(0,0)

Method Name: J:\1\METHODS\E101029.M
Calibration Table Last Updated: Mon Nov 01 08:01:06 2010

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102903.D
Acq On : 29 Oct 2010 3:37 pm
Operator : JAR
Sample : B123
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 07:55:16 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:54:54 2010
Response via : Initial Calibration

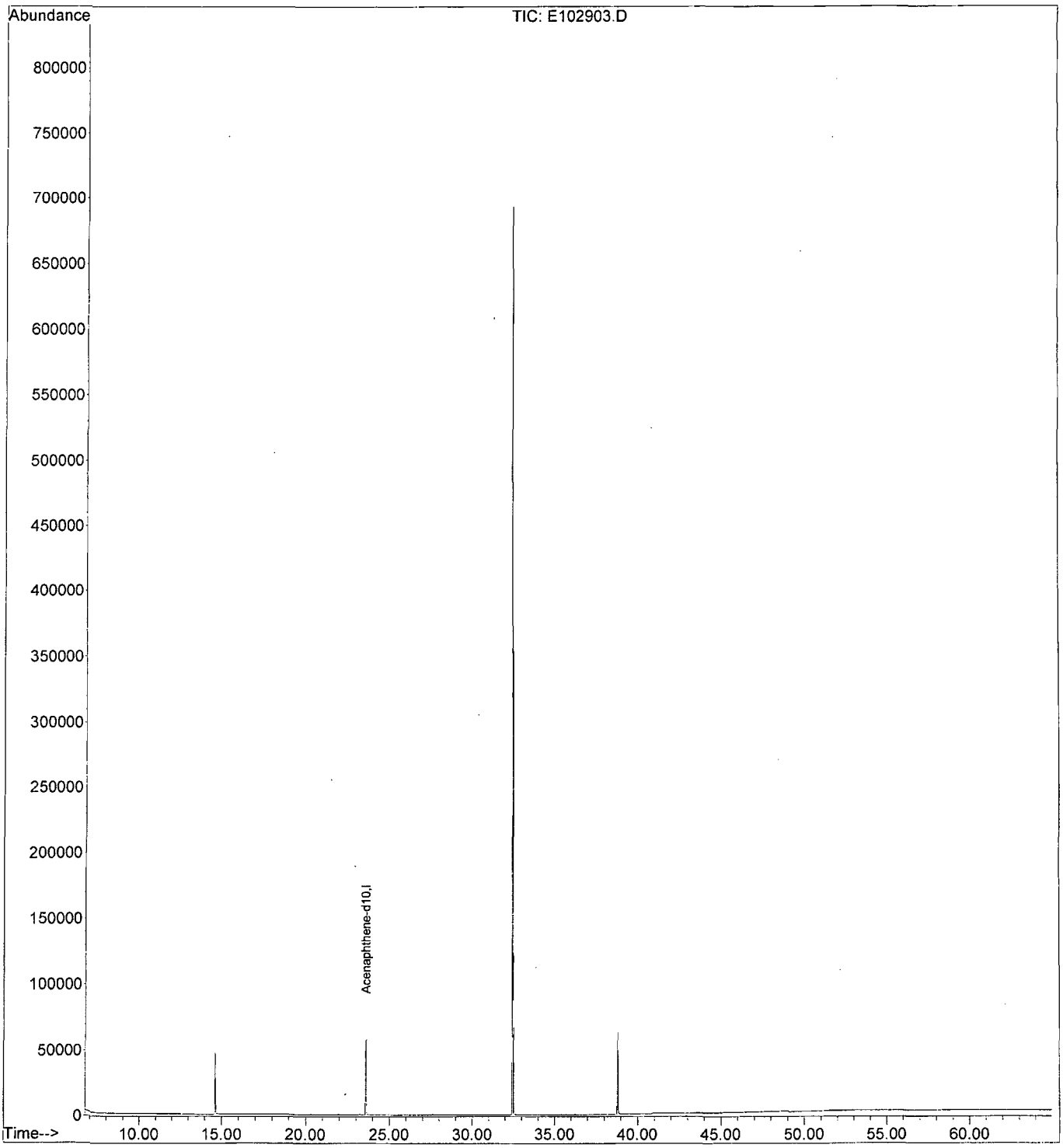
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	60591	1.000 ug/mL	0.00
System Monitoring Compounds					
2) 1,4-Dichlorobenzene-d4	14.62	152	33071	0.000 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 0.00%	
3) Chrysene-d12	38.80	240	106831	0.000 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 0.00%	
Target Compounds					Qvalue
4) Tetraethyllead	17.51	208	113	No Calib	
5) Tetramethyllead	0.00	208	0	N.D.	
6) Trimethylethyllead	0.00	208	0	N.D.	
7) Diethyldimethyllead	0.00	208	0	N.D.	
8) Methyltriethyllead	0.00	208	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102903.D
Acq On : 29 Oct 2010 3:37 pm
Operator : JAR
Sample : B123
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 07:55:16 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:54:54 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102904.D
Acq On : 29 Oct 2010 4:53 pm
Operator : JAR
Sample : B035
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 07:55:39 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:55:33 2010
Response via : Initial Calibration

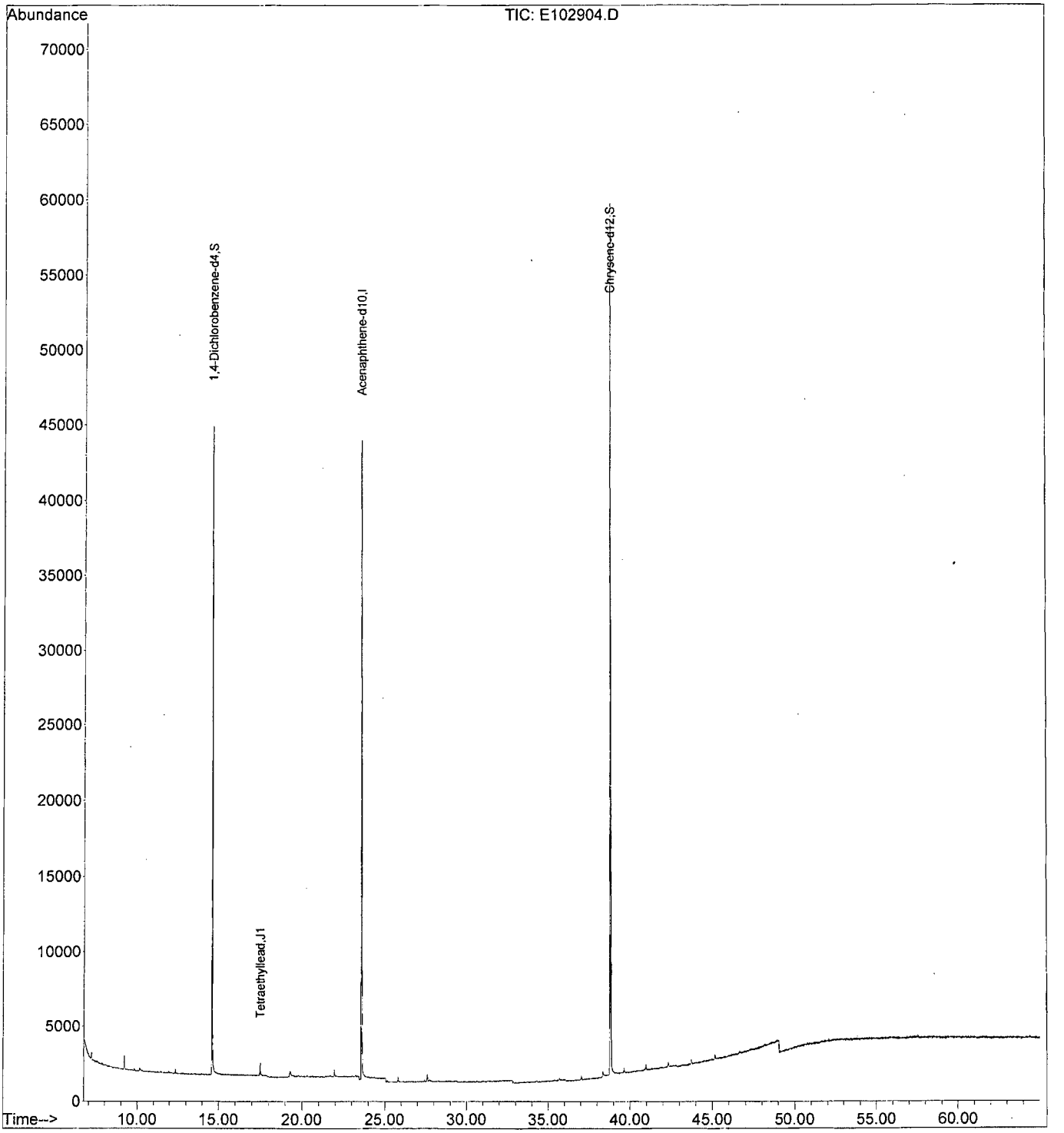
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	44393	1.000 ug/mL	0.00
System Monitoring Compounds					
2) 1,4-Dichlorobenzene-d4	14.62	152	31499	0.013 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 0.91%	
3) Chrysene-d12	38.80	240	100329	0.013 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 0.91%	
Target Compounds					Qvalue
4) Tetraethyllead	17.51	208	466	0.056 ug/mL#	59
5) Tetramethyllead	0.00	208	0	N.D.	
6) Trimethylethyllead	0.00	208	0	N.D.	
7) Diethyldimethyllead	0.00	208	0	N.D.	
8) Methyltriethyllead	0.00	208	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102904.D
Acq On : 29 Oct 2010 4:53 pm
Operator : JAR
Sample : B035
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 01 07:55:39 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:55:33 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102905.D
Acq On : 29 Oct 2010 6:10 pm
Operator : JAR
Sample : B036
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 07:57:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:57:34 2010
Response via : Initial Calibration

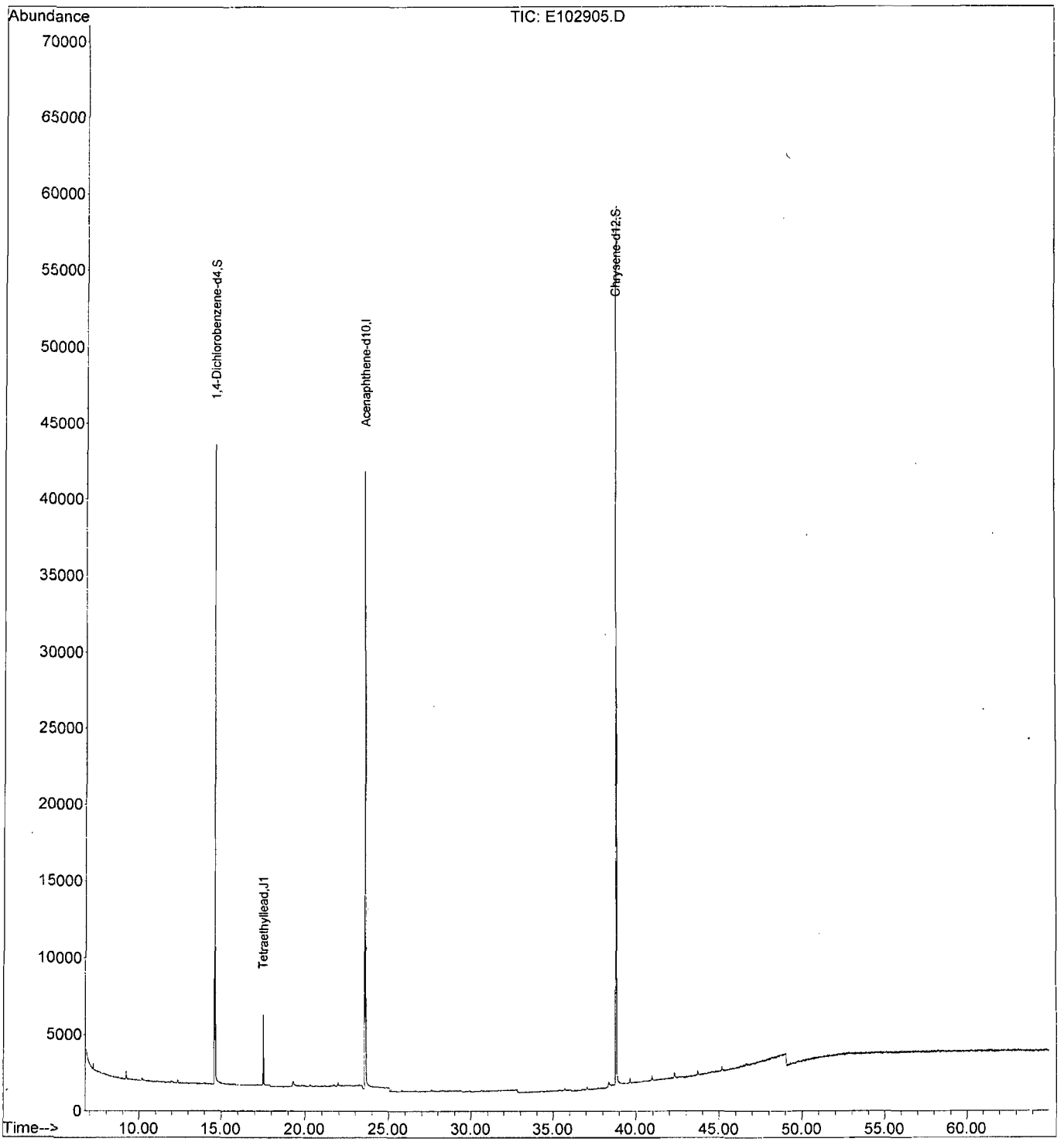
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	42588	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.62	152	30256	0.021	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	1.82%	
3) Chrysene-d12	38.80	240	96443	0.020	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	1.82%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	2759	0.327	ug/mL#	43
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102905.D
Acq On : 29 Oct 2010 6:10 pm
Operator : JAR
Sample : B036
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 07:57:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:57:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102906.D
Acq On : 29 Oct 2010 7:27 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 01 07:58:04 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:57:58 2010
Response via : Initial Calibration

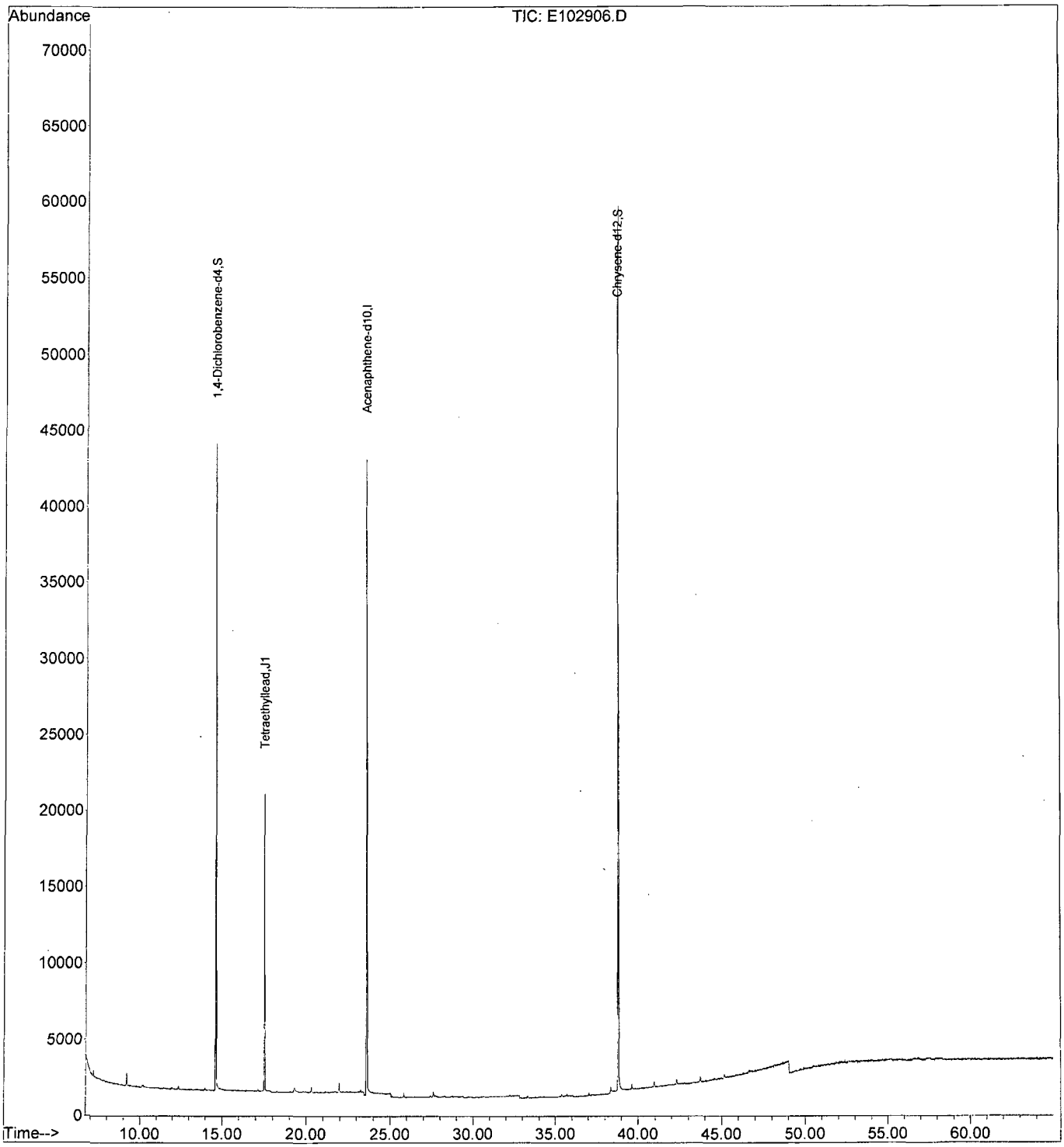
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	43402	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	30187	0.029	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	2.73%	
3) Chrysene-d12	38.80	240	99674	0.030	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	2.73%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	11619	1.225	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102906.D
Acq On : 29 Oct 2010 7:27 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 01 07:58:04 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:57:58 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102907.D
Acq On : 29 Oct 2010 8:44 pm
Operator : JAR
Sample : B038
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 01 07:58:27 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:58:21 2010
Response via : Initial Calibration

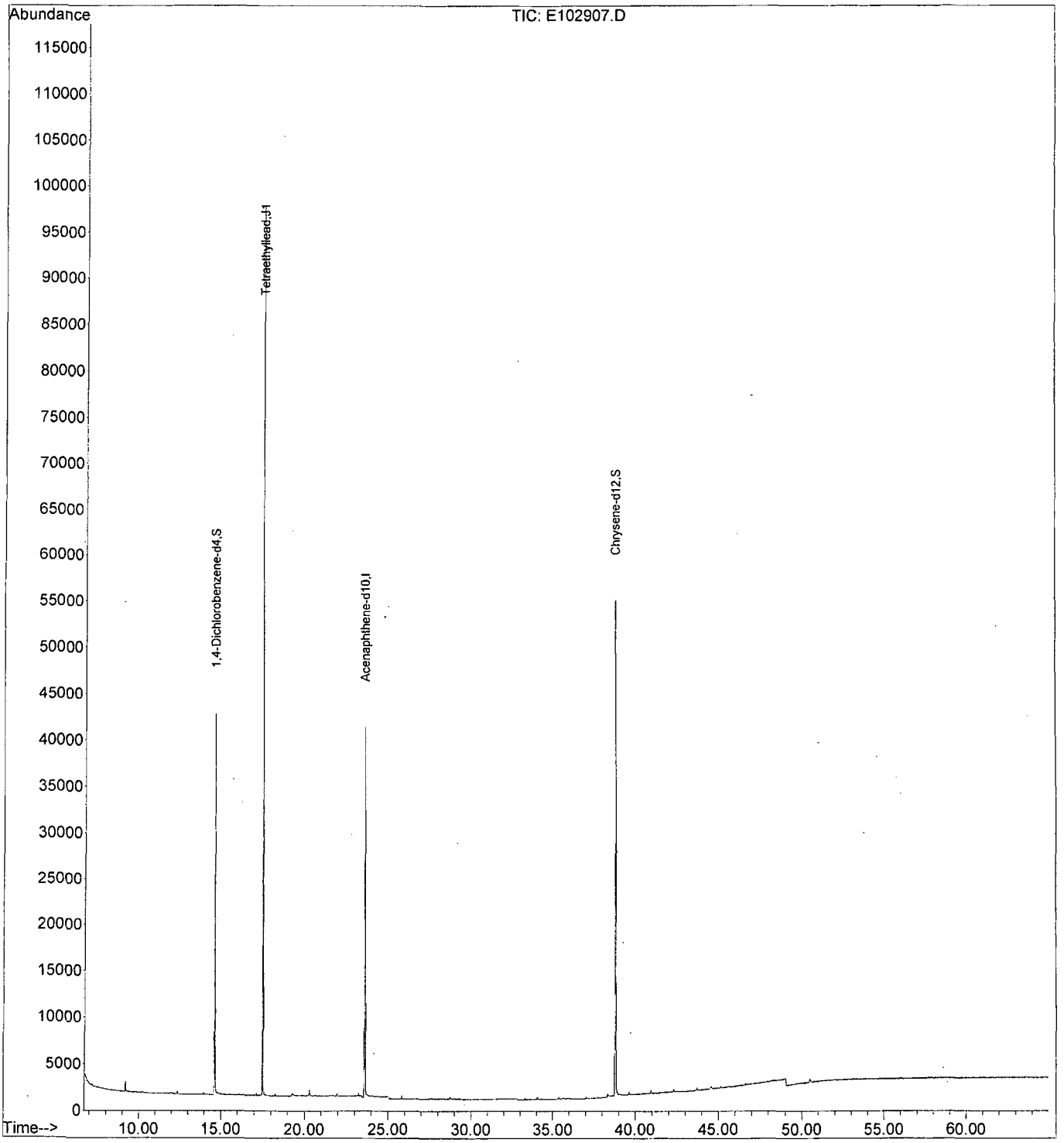
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	40867	1.000 ug/mL	0.00
System Monitoring Compounds					
2) 1,4-Dichlorobenzene-d4	14.61	152	29464	0.040 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 3.64%	
3) Chrysene-d12	38.80	240	93629	0.039 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 3.64%	
Target Compounds					Qvalue
4) Tetraethyllead	17.51	208	56045	5.941 ug/mL#	41
5) Tetramethyllead	0.00	208	0	N.D.	
6) Trimethylethyllead	0.00	208	0	N.D.	
7) Diethyldimethyllead	0.00	208	0	N.D.	
8) Methyltriethyllead	0.00	208	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102907.D
Acq On : 29 Oct 2010 8:44 pm
Operator : JAR
Sample : B038
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 01 07:58:27 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:58:21 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102908.D
Acq On : 29 Oct 2010 10:00 pm
Operator : JAR
Sample : B039
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 07:58:51 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:58:46 2010
Response via : Initial Calibration

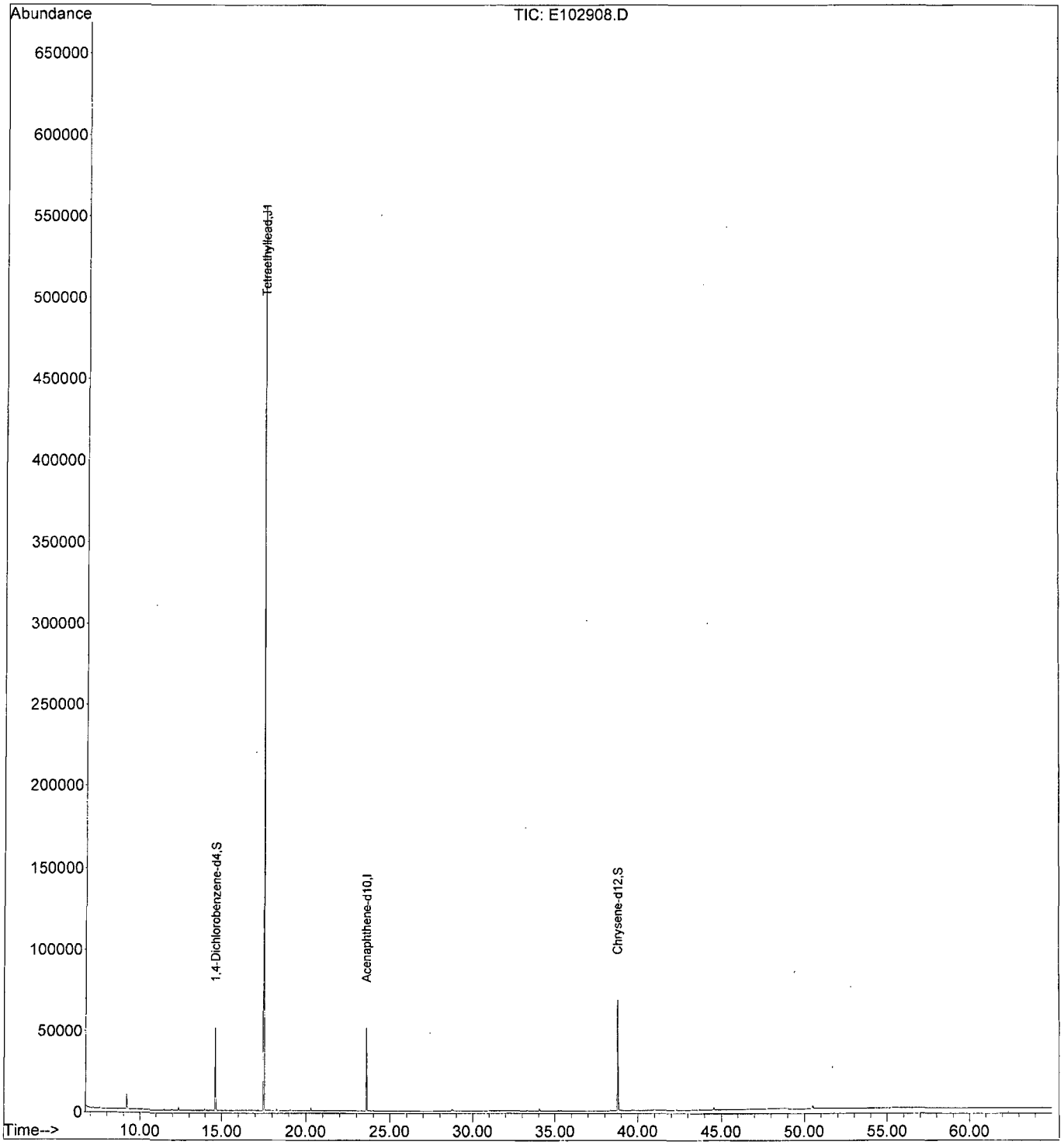
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	51892	1.000 ug/mL	0.00
System Monitoring Compounds					
2) 1,4-Dichlorobenzene-d4	14.61	152	36145	0.048 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 4.55%	
3) Chrysene-d12	38.80	240	115600	0.048 ug/mL	0.00
Spiked Amount 1.100			Recovery	= 4.55%	
Target Compounds					Qvalue
4) Tetraethyllead	17.51	208	310572	24.988 ug/mL#	45
5) Tetramethyllead	0.00	208	0	N.D.	
6) Trimethylethyllead	0.00	208	0	N.D.	
7) Diethyldimethyllead	0.00	208	0	N.D.	
8) Methyltriethyllead	0.00	208	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102908.D
Acq On : 29 Oct 2010 10:00 pm
Operator : JAR
Sample : B039
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 07:58:51 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 07:58:46 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102922.D
Acq On : 30 Oct 2010 3:41 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 01 08:02:15 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	85	0.00
2	S	1,4-Dichlorobenzene-d4	1.000	1.075	-7.5	89	0.00
3	S	Chrysene-d12	1.000	0.951	4.9	77	0.00
4	J1	Tetraethyllead	1.000	0.992	0.8	84	0.00
5	J2	Tetramethyllead	1.000	0.000	100.0#	0	-8.52#
6	J2	Trimethylethyllead	1.000	0.000	100.0#	0	-10.85#
7	J2	Diethyldimethyllead	1.000	0.000	100.0#	0	-13.57#
8	J2	Methyltriethyllead	1.000	0.000	100.0#	0	-15.36#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102922.D
Acq On : 30 Oct 2010 3:41 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 01 08:02:15 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

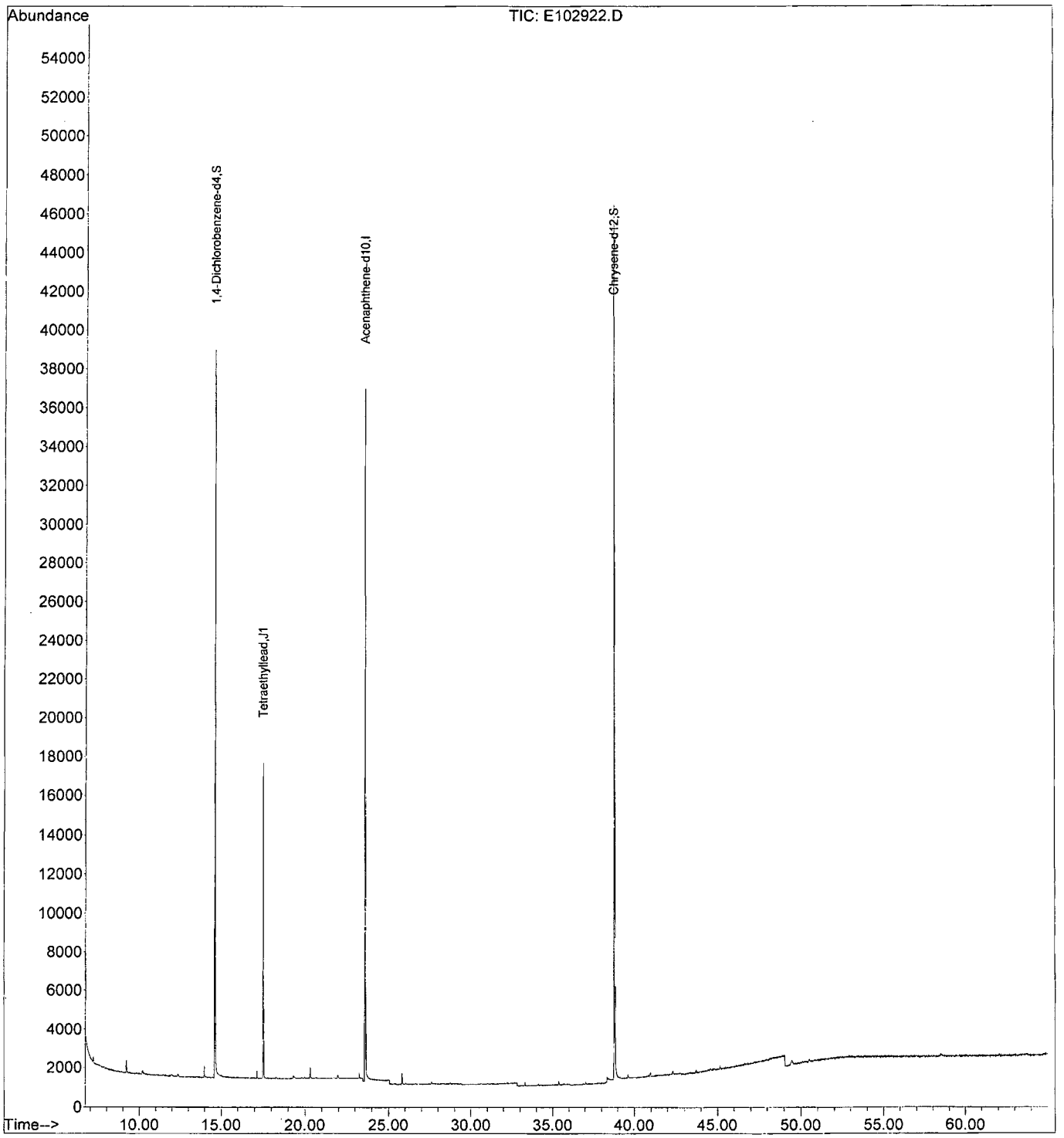
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	36786	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26889	1.075	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	98.18%	
3) Chrysene-d12	38.80	240	76373	0.951	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	86.36%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	9766	0.992	ug/mL#	49
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102922.D
Acq On : 30 Oct 2010 3:41 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 01 08:02:15 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102935.D
Acq On : 31 Oct 2010 8:09 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 01 08:02:39 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00
2	S	1,4-Dichlorobenzene-d4	1.000	1.059	-5.9	89	0.00
3	S	Chrysene-d12	1.000	0.891	10.9	73	0.00
4	J1	Tetraethyllead	1.000	0.973	2.7	84	0.00
5	J2	Tetramethyllead	1.000	0.000	100.0#	0	-8.52#
6	J2	Trimethylethyllead	1.000	0.000	100.0#	0	-10.85#
7	J2	Diethyldimethyllead	1.000	0.000	100.0#	0	-13.57#
8	J2	Methyltriethyllead	1.000	0.000	100.0#	0	-15.36#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102935.D
Acq On : 31 Oct 2010 8:09 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 01 08:02:39 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

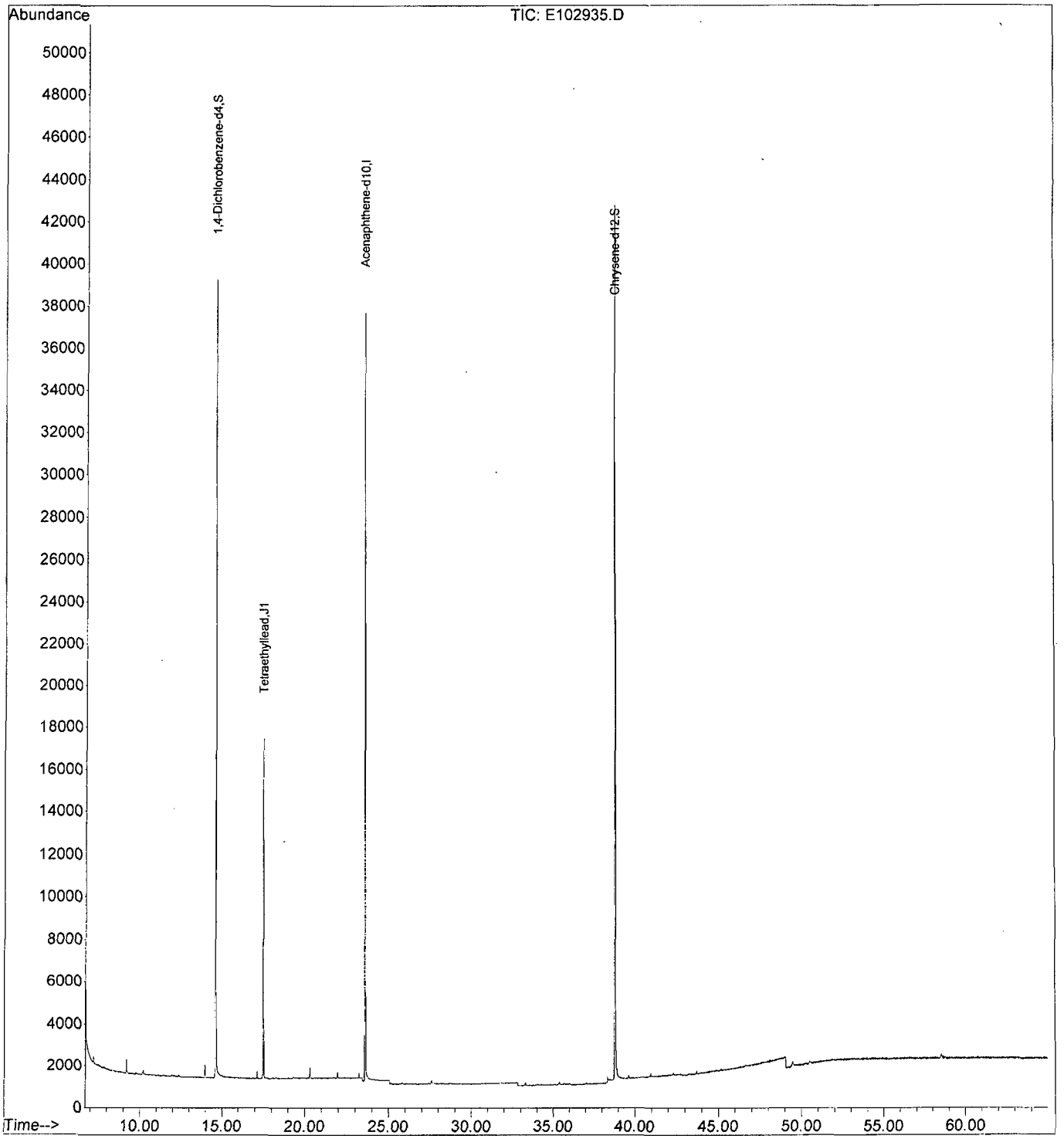
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	37427	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26939	1.059	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	96.36%	
3) Chrysene-d12	38.80	240	72848	0.891	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	80.91%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	9748	0.973	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102935.D
Acq On : 31 Oct 2010 8:09 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 01 08:02:39 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102948.D
Acq On : 1 Nov 2010 12:36 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 01 08:03:03 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
2	S	1,4-Dichlorobenzene-d4	1.000	1.057	-5.7	111	0.00
3	S	Chrysene-d12	1.000	0.870	13.0	89	-0.01
4	J1	Tetraethyllead	1.000	0.959	4.1	103	0.00
5	J2	Tetramethyllead	1.000	0.000	100.0#	0	-8.52#
6	J2	Trimethylethyllead	1.000	0.000	100.0#	0	-10.85#
7	J2	Diethyldimethyllead	1.000	0.000	100.0#	0	-13.57#
8	J2	Methyltriethyllead	1.000	0.000	100.0#	0	-15.36#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102948.D
Acq On : 1 Nov 2010 12:36 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 01 08:03:03 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

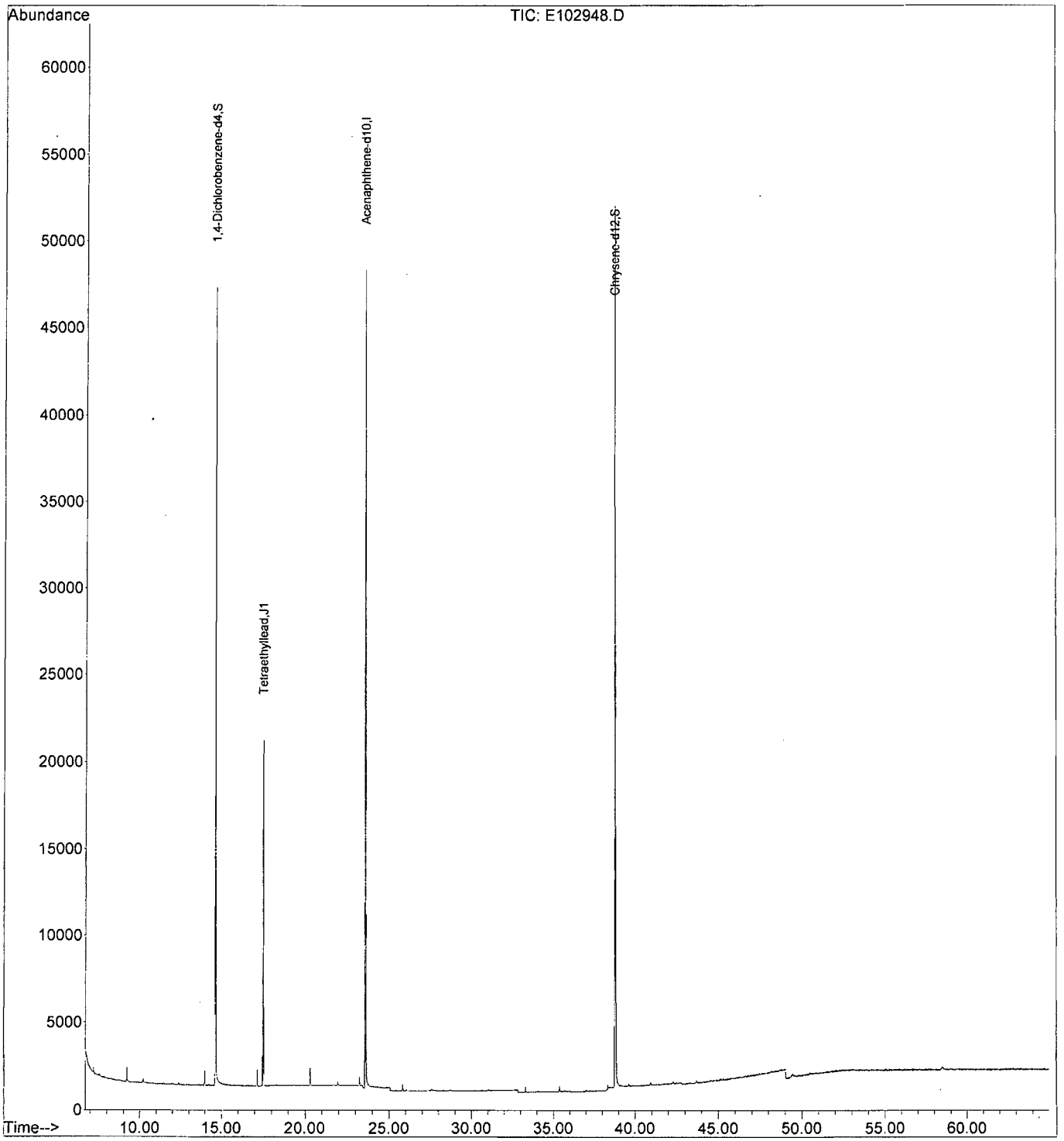
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	46486	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	33395	1.057	ug/mL	0.00
Spiked Amount 1.100			Recovery	=	96.36%	
3) Chrysene-d12	38.79	240	88290	0.870	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	79.09%	
Target Compounds						Qvalue
4) Tetraethyllead	17.51	208	11932	0.959	ug/mL#	50
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102948.D
Acq On : 1 Nov 2010 12:36 am
Operator : JAR
Sample : B037
Misc :
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Nov 01 08:03:03 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102961.D
Acq On : 1 Nov 2010 4:52 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 02 12:13:16 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	117	0.00
2	S	1,4-Dichlorobenzene-d4	1.000	1.031	-3.1	118	-0.01
3	S	Chrysene-d12	1.000	0.894	10.6	100	-0.02
4	J1	Tetraethyllead	1.000	0.933	6.7	109	-0.01
5	J2	Tetramethyllead	1.000	0.000	100.0#	0	-8.52#
6	J2	Trimethylethyllead	1.000	0.000	100.0#	0	-10.85#
7	J2	Diethyldimethyllead	1.000	0.000	100.0#	0	-13.57#
8	J2	Methyltriethyllead	1.000	0.000	100.0#	0	-15.36#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102961.D
Acq On : 1 Nov 2010 4:52 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 02 12:13:16 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

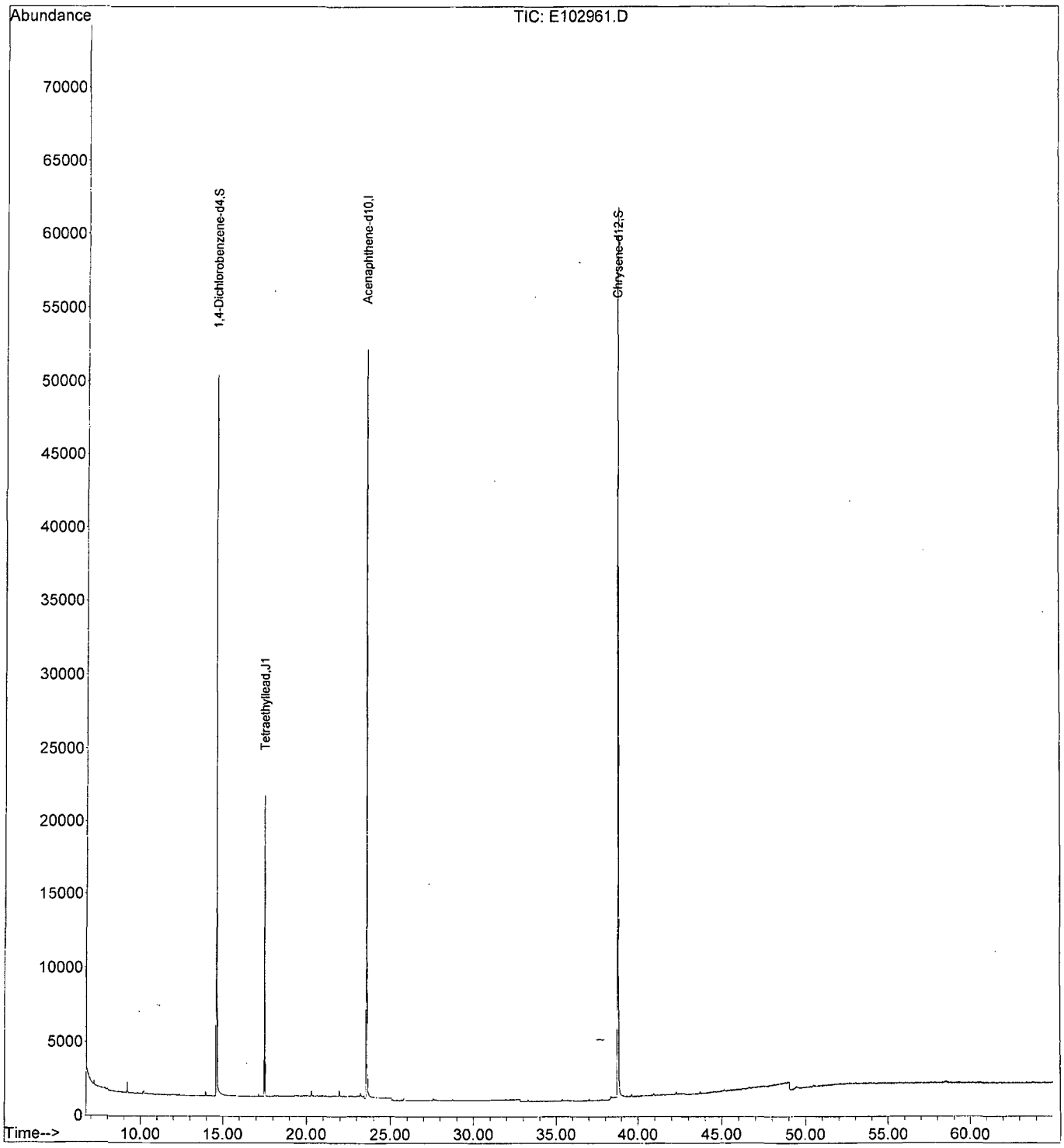
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	50824	1.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	35628	1.031	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	93.64%	
3) Chrysene-d12	38.78	240	99224	0.894	ug/mL	-0.02
Spiked Amount 1.100			Recovery	=	80.91%	
Target Compounds						Qvalue
4) Tetraethyllead	17.50	208	12688	0.933	ug/mL#	49
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102961.D
Acq On : 1 Nov 2010 4:52 pm
Operator : JAR
Sample : B037
Misc :
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Nov 02 12:13:16 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102973.D
Acq On : 2 Nov 2010 7:53 am
Operator : JAR
Sample : B037
Misc : TEL @ 1.0 µg/mL
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Nov 02 12:13:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	85	-0.01
2	S	1,4-Dichlorobenzene-d4	1.000	1.049	-4.9	87	-0.01
3	S	Chrysene-d12	1.000	0.847	15.3	69	-0.03
4	J1	Tetraethyllead	1.000	0.940	6.0	80	-0.01
5	J2	Tetramethyllead	1.000	0.000	100.0#	0	-8.52#
6	J2	Trimethylethyllead	1.000	0.000	100.0#	0	-10.85#
7	J2	Diethyldimethyllead	1.000	0.000	100.0#	0	-13.57#
8	J2	Methyltriethyllead	1.000	0.000	100.0#	0	-15.36#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102973.D
Acq On : 2 Nov 2010 7:53 am
Operator : JAR
Sample : B037
Misc : TEL @ 1.0 µg/mL
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Nov 02 12:13:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration

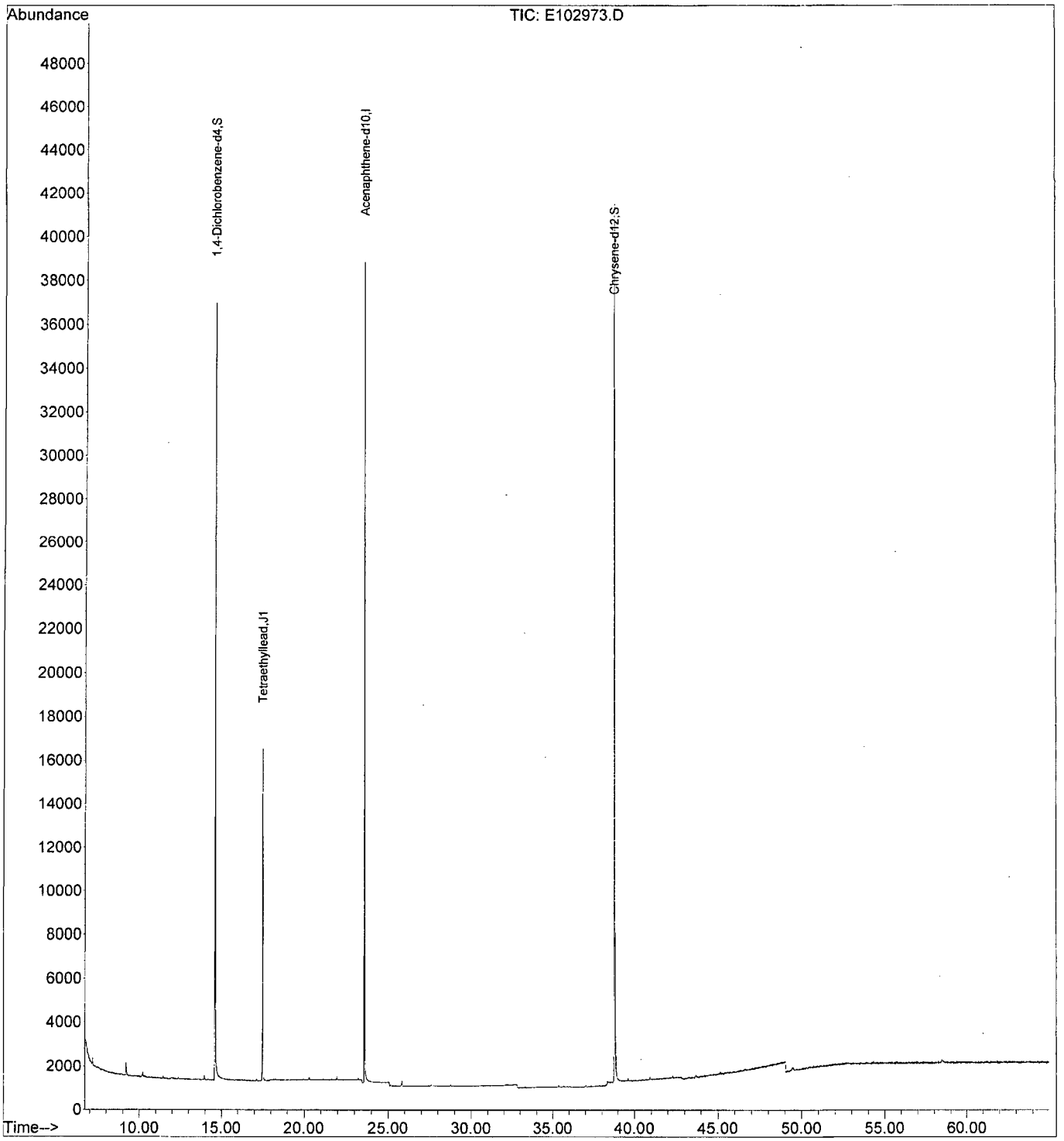
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	37017	1.000	ug/mL	-0.01
System Monitoring Compounds						
2) 1,4-Dichlorobenzene-d4	14.61	152	26405	1.049	ug/mL	-0.01
Spiked Amount 1.100			Recovery	=	95.45%	
3) Chrysene-d12	38.78	240	68445	0.847	ug/mL	-0.03
Spiked Amount 1.100			Recovery	=	77.27%	
Target Compounds						Qvalue
4) Tetraethyllead	17.50	208	9310	0.940	ug/mL#	47
5) Tetramethyllead	0.00	208	0	N.D.		
6) Trimethylethyllead	0.00	208	0	N.D.		
7) Diethyldimethyllead	0.00	208	0	N.D.		
8) Methyltriethyllead	0.00	208	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102973.D
Acq On : 2 Nov 2010 7:53 am
Operator : JAR
Sample : B037
Misc : TEL @ 1.0 µg/mL
ALS Vial : 73 Sample Multiplier: 1

Quant Time: Nov 02 12:13:40 2010
Quant Method : J:\1\METHODS\E101029.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:01:06 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102901.D
Acq On : 29 Oct 2010 12:49 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 08:39:25 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:36 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00
2	S	Benzene-d6	1.000	0.929	7.1	76	0.00
3	S	Toluene-d8	1.000	1.018	-1.8	84	0.00
4	S	Phenanthrene-d10	1.000	0.982	1.8	82	0.00
5	S	Benzo(a)pyrene-d12	1.000	0.994	0.6	84	0.00
6	S	Perylene-d12	1.000	1.005	-0.5	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102901.D
Acq On : 29 Oct 2010 12:49 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 08:39:25 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:36 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	50928	1.000 µg/mL	0.00
System Monitoring Compounds					
2) Benzene-d6	7.13	84	56015	0.929 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 93.00%	
3) Toluene-d8	9.11	98	65672	1.018 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 102.00%	
4) Phenanthrene-d10	28.66	188	104424	0.982 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 98.00%	
5) Benzo(a)pyrene-d12	44.47	264	62965	0.994 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 99.00%	
6) Perylene-d12	44.81	264	79716	1.005 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 101.00%	

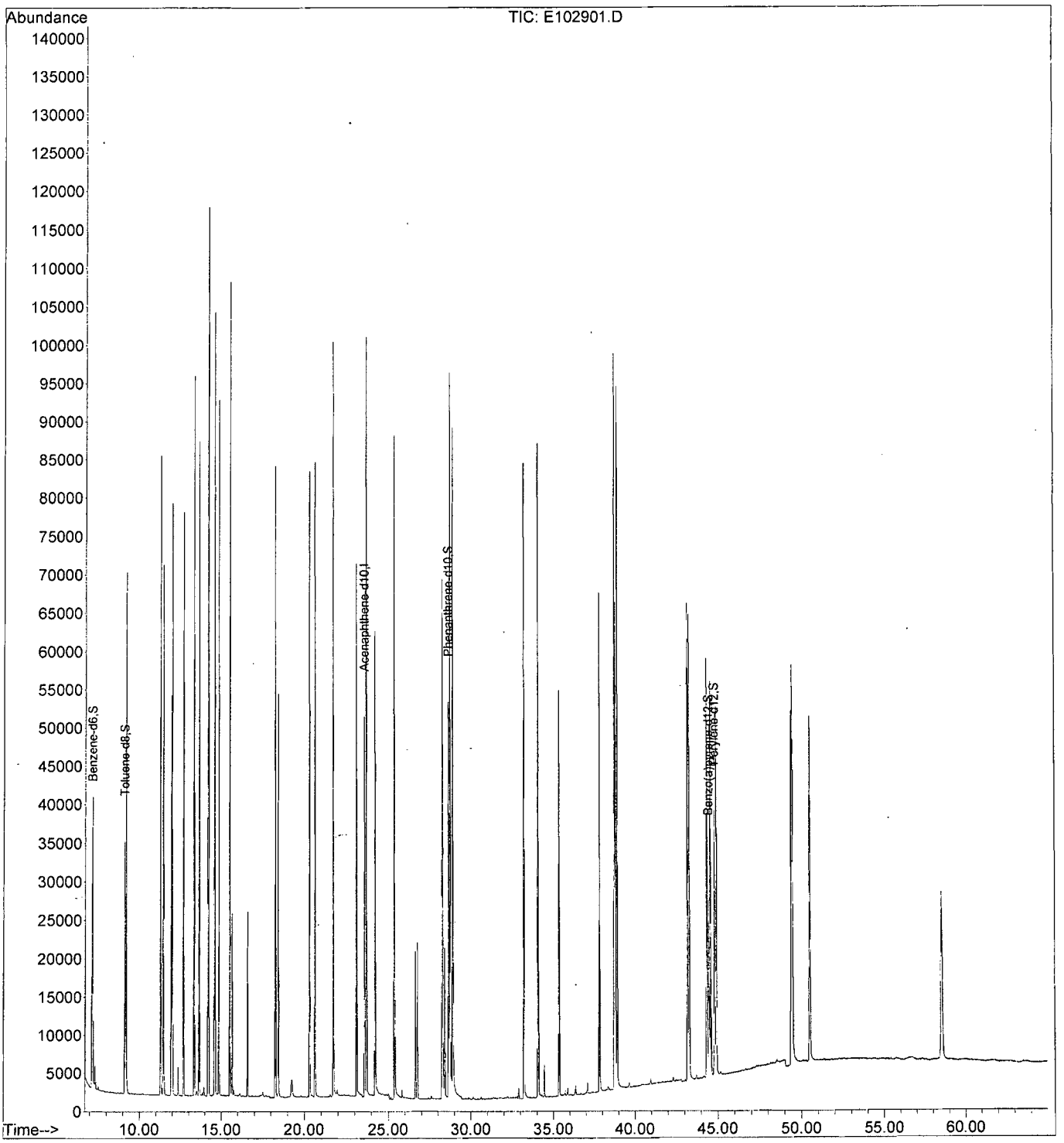
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102901.D
Acq On : 29 Oct 2010 12:49 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 01 08:39:25 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:36 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102921.D
Acq On : 30 Oct 2010 2:25 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 01 08:39:47 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00
2	S	Benzene-d6	1.000	0.853	14.7	63	0.00
3	S	Toluene-d8	1.000	0.992	0.8	74	0.00
4	S	Phenanthrene-d10	1.000	0.990	1.0	75	0.00
5	S	Benzo(a)pyrene-d12	1.000	0.992	0.8	76	-0.01
6	S	Perylene-d12	1.000	1.003	-0.3	79	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102921.D
Acq On : 30 Oct 2010 2:25 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 01 08:39:47 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.60	164	46082	1.000 µg/mL	0.00
System Monitoring Compounds					
2) Benzene-d6	7.14	84	46526	0.853 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 85.00%	
3) Toluene-d8	9.11	98	57870	0.992 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 99.00%	
4) Phenanthrene-d10	28.65	188	95308	0.990 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 99.00%	
5) Benzo(a)pyrene-d12	44.45	264	56888	0.992 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 99.00%	
6) Perylene-d12	44.80	264	71959	1.003 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 100.00%	

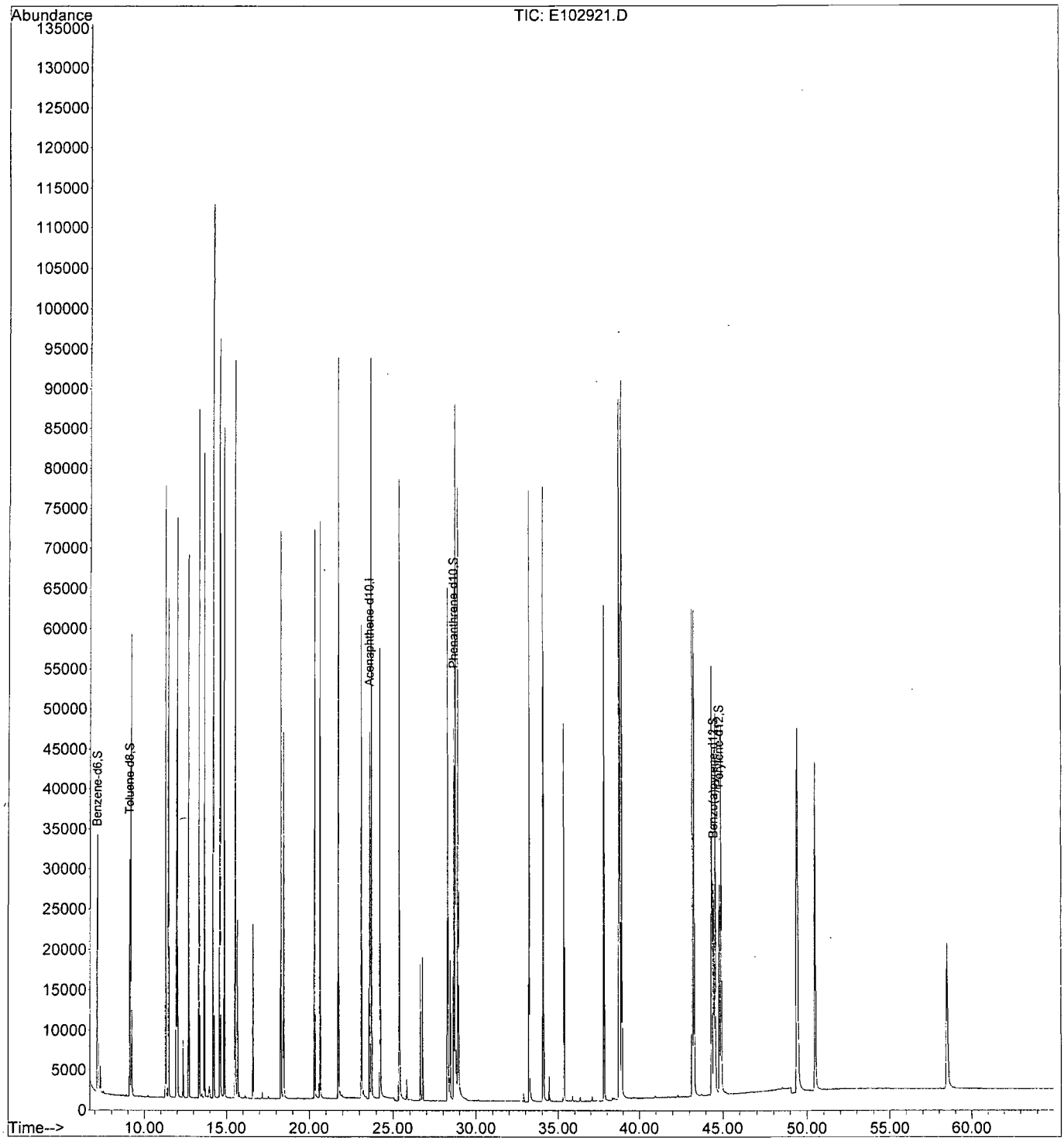
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102921.D
Acq On : 30 Oct 2010 2:25 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 01 08:39:47 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102934.D
Acq On : 31 Oct 2010 6:53 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 01 08:40:12 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	75	-0.01
2	S	Benzene-d6	1.000	0.834	16.6	61	0.01
3	S	Toluene-d8	1.000	0.979	2.1	72	0.00
4	S	Phenanthrene-d10	1.000	0.988	1.2	74	0.00
5	S	Benzo(a)pyrene-d12	1.000	0.960	4.0	73	-0.02
6	S	Perylene-d12	1.000	0.988	1.2	77	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102934.D
Acq On : 31 Oct 2010 6:53 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 01 08:40:12 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	45580	1.000	µg/mL	-0.01
System Monitoring Compounds						
2) Benzene-d6	7.15	84	45016	0.834	µg/mL	0.01
Spiked Amount 1.000			Recovery	=	83.00%	
3) Toluene-d8	9.11	98	56500	0.979	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
4) Phenanthrene-d10	28.65	188	94031	0.988	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
5) Benzo(a)pyrene-d12	44.45	264	54426	0.960	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	96.00%	
6) Perylene-d12	44.79	264	70153	0.988	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	99.00%	

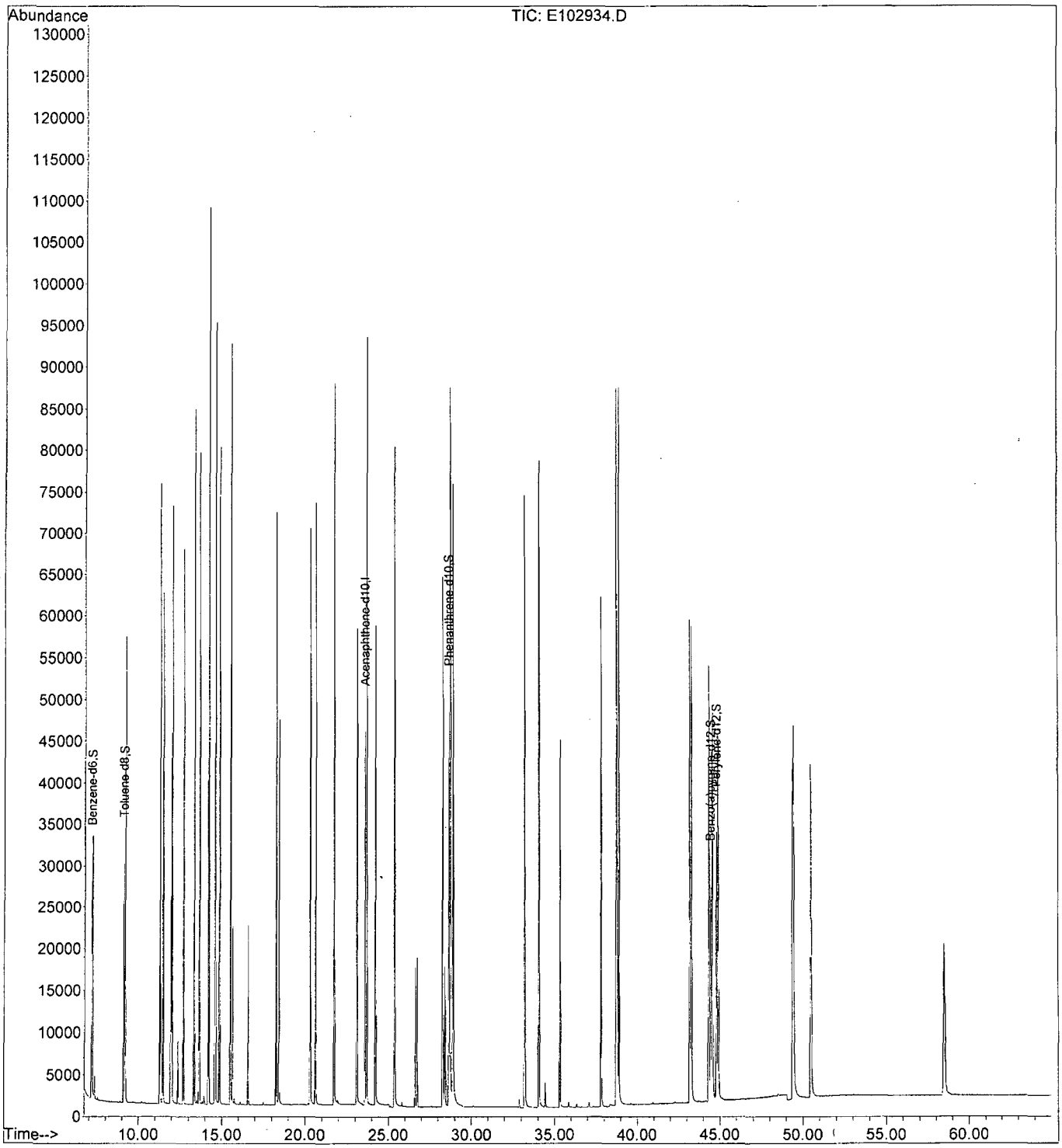
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102934.D
Acq On : 31 Oct 2010 6:53 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 01 08:40:12 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102947.D
Acq On : 31 Oct 2010 11:21 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Nov 01 08:40:37 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	63	-0.01
2	S	Benzene-d6	1.000	0.927	7.3	57	0.00
3	S	Toluene-d8	1.000	1.036	-3.6	64	0.00
4	S	Phenanthrene-d10	1.000	0.988	1.2	62	-0.01
5	S	Benzo(a)pyrene-d12	1.000	0.930	7.0	59	-0.03
6	S	Perylene-d12	1.000	0.962	3.8	63	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102947.D
Acq On : 31 Oct 2010 11:21 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Nov 01 08:40:37 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	38336	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.14	84	42107	0.927 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 93.00%	
3) Toluene-d8	9.11	98	50305	1.036 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 104.00%	
4) Phenanthrene-d10	28.64	188	79112	0.988 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 99.00%	
5) Benzo(a)pyrene-d12	44.44	264	44374	0.930 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 93.00%	
6) Perylene-d12	44.78	264	57395	0.962 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 96.00%	

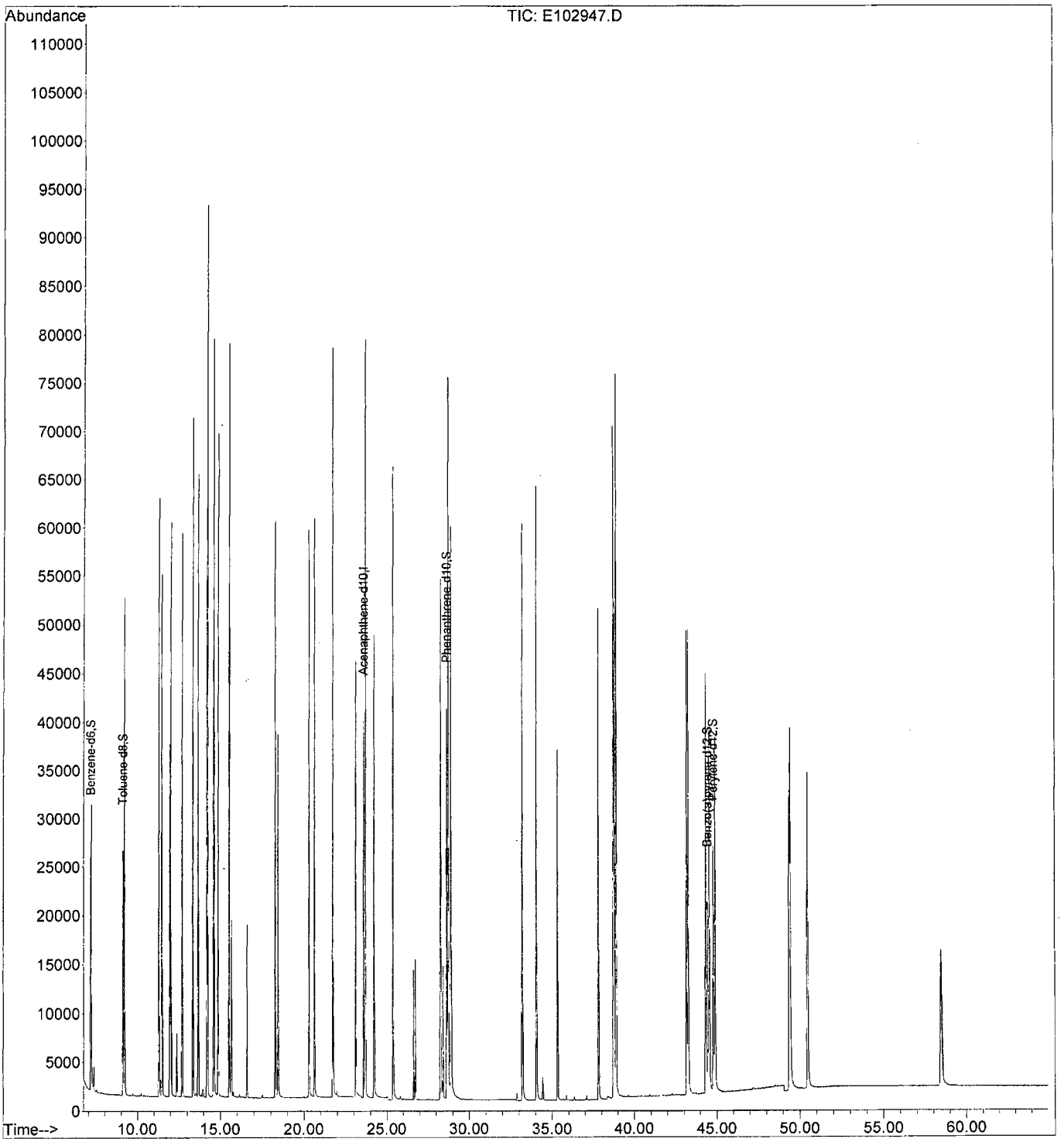
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102947.D
Acq On : 31 Oct 2010 11:21 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Nov 01 08:40:37 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102960.D
Acq On : 1 Nov 2010 3:35 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 02 14:28:10 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	84	-0.01
2	S	Benzene-d6	1.000	0.709	29.1#	59	0.01
3	S	Toluene-d8	1.000	0.912	8.8	76	0.00
4	S	Phenanthrene-d10	1.000	0.988	1.2	84	-0.01
5	S	Benzo(a)pyrene-d12	1.000	0.969	3.1	83	-0.03
6	S	Perylene-d12	1.000	1.004	-0.4	88	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102960.D
Acq On : 1 Nov 2010 3:35 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 02 14:28:10 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.59	164	51350	1.000 µg/mL	-0.01
System Monitoring Compounds					
2) Benzene-d6	7.15	84	43108	0.709 µg/mL	0.01
Spiked Amount 1.000			Recovery	= 71.00%	
3) Toluene-d8	9.11	98	59291	0.912 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 91.00%	
4) Phenanthrene-d10	28.64	188	105935	0.988 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 99.00%	
5) Benzo(a)pyrene-d12	44.43	264	61905	0.969 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 97.00%	
6) Perylene-d12	44.78	264	80234	1.004 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 100.00%	

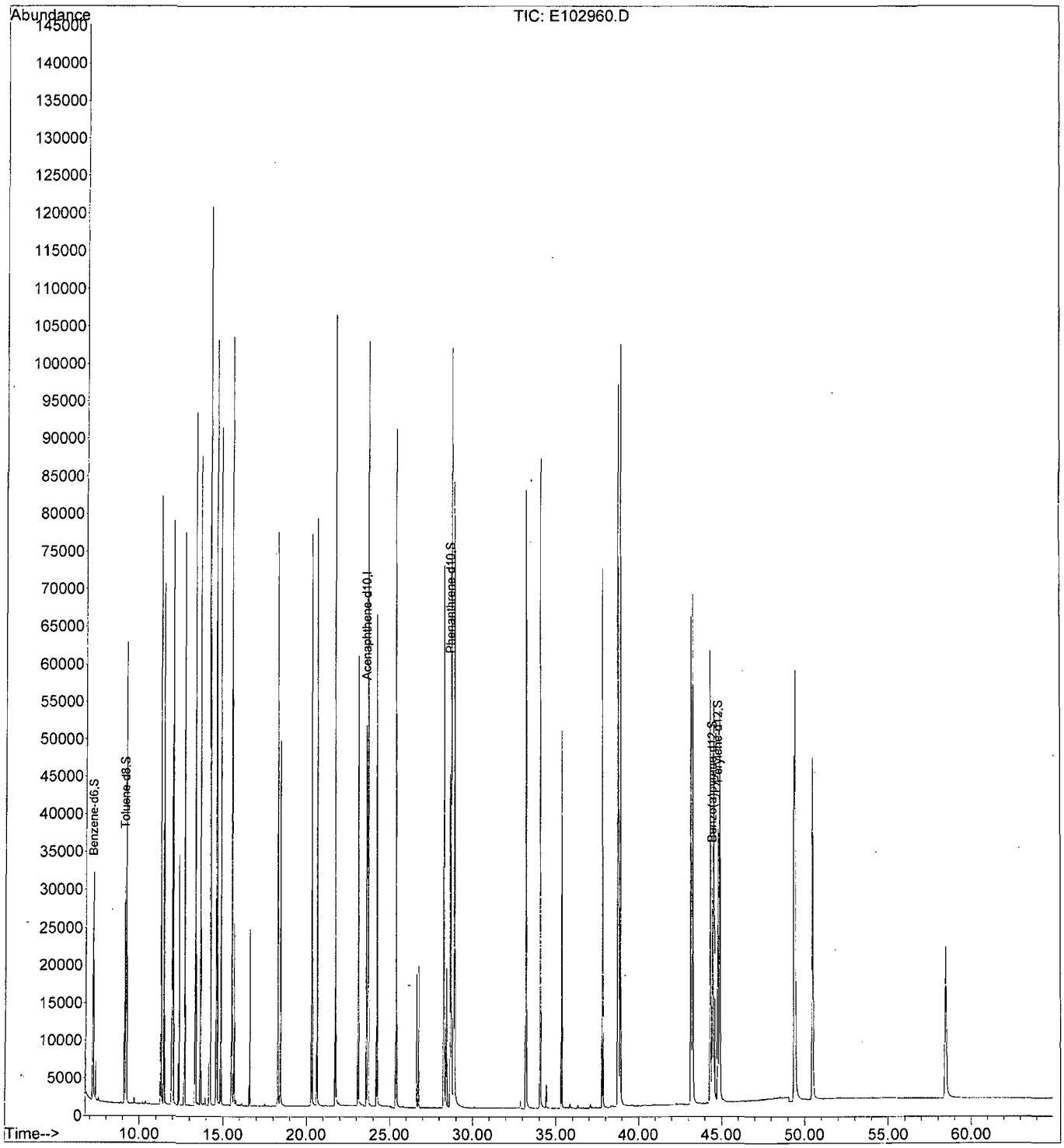
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102960.D
Acq On : 1 Nov 2010 3:35 pm
Operator : JAR
Sample : A978
Misc :
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Nov 02 14:28:10 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : J:\1\DATA\E101029\
Data File : E102972.D
Acq On : 2 Nov 2010 6:38 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 02 14:28:27 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Acenaphthene-d10	1.000	1.000	0.0	74	-0.02
2	S	Benzene-d6	1.000	0.791	20.9	58	0.00
3	S	Toluene-d8	1.000	0.939	6.1	69	0.00
4	S	Phenanthrene-d10	1.000	1.000	0.0	75	-0.02
5	S	Benzo(a)pyrene-d12	1.000	0.917	8.3	69	-0.04
6	S	Perylene-d12	1.000	0.972	2.8	75	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102972.D
Acq On : 2 Nov 2010 6:38 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 02 14:28:27 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.58	164	45271	1.000	µg/mL	-0.02
System Monitoring Compounds						
2) Benzene-d6	7.13	84	42416	0.791	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	79.00%	
3) Toluene-d8	9.10	98	53829	0.939	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	94.00%	
4) Phenanthrene-d10	28.64	188	94503	1.000	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	100.00%	
5) Benzo(a)pyrene-d12	44.43	264	51656	0.917	µg/mL	-0.04
Spiked Amount 1.000			Recovery	=	92.00%	
6) Perylene-d12	44.77	264	68537	0.972	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	97.00%	

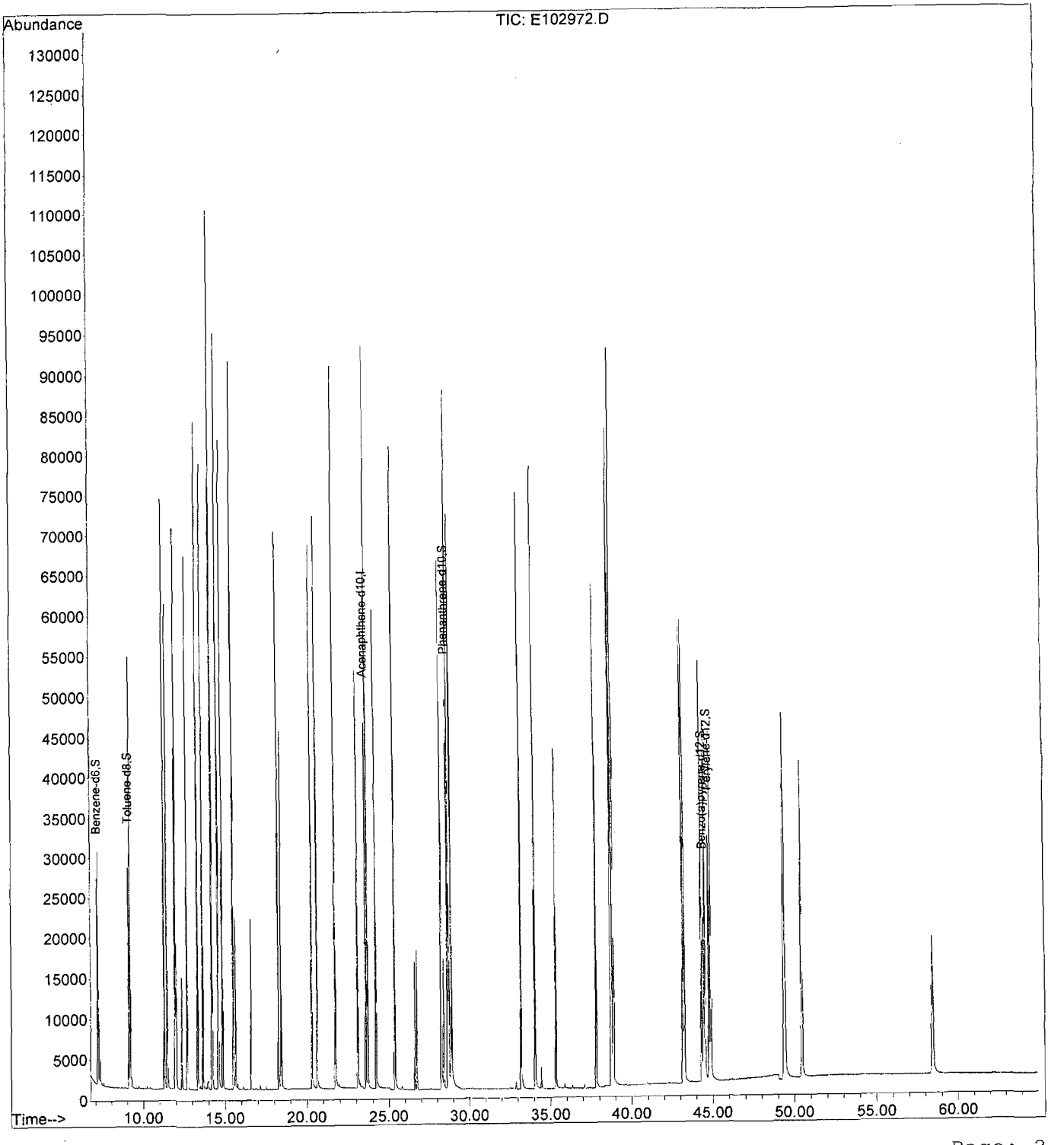
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101029\
Data File : E102972.D
Acq On : 2 Nov 2010 6:38 am
Operator : JAR
Sample : A978
Misc :
ALS Vial : 72 Sample Multiplier: 1

Quant Time: Nov 02 14:28:27 2010
Quant Method : J:\1\METHODS\E101029A.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Mon Nov 01 08:38:49 2010
Response via : Initial Calibration



Injection Log

Directory: j:\1\DATA\E101021

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	E102101.D	0.	A172		21 Oct 2010 10:49
2	2	E102102.D	0.	A974		21 Oct 2010 12:05
3	3	E102103.D	0.	A975		21 Oct 2010 13:22
4	4	E102104.D	0.	A976		21 Oct 2010 14:38
5	5	E102105.D	0.	A977		21 Oct 2010 15:55
6	6	E102106.D	0.	A978		21 Oct 2010 17:11
7	7	E102107.D	0.	A979		21 Oct 2010 18:28
8	8	E102108.D	0.	A980		21 Oct 2010 19:44
9	9	E102109.D	0.	A982		21 Oct 2010 21:01
10	10	E102110.D	0.	DCM		21 Oct 2010 22:17
11	11	E102111.D	0.	[redacted]	[redacted]	21 Oct 2010 23:33
12	12	E102112.D	0.	[redacted]	[redacted]	22 Oct 2010 00:48
13	13	E102113.D	0.	[redacted]	[redacted]	22 Oct 2010 02:04
14	14	E102114.D	0.	[redacted]	[redacted]	22 Oct 2010 03:19
15	15	E102115.D	0.	[redacted]	[redacted]	22 Oct 2010 04:35
16	16	E102116.D	0.	[redacted]	[redacted]	22 Oct 2010 05:50
17	17	E102117.D	0.	[redacted]	[redacted]	22 Oct 2010 07:05
18	18	E102118.D	0.	DCM		22 Oct 2010 08:20
19	19	E102119.D	0.	A978		22 Oct 2010 09:35

ICAL USED FOR SURROGATE RECOVERY ONLY.

ICV ✓

Calibration Table Report
Method: E101021.M
Title: Hydrocarbon Fingerprinting - MS Calibration
Last Calibration: Thu Oct 28 10:19:00 2010
Instrument: El Camino

Calibration Files

	0.005	0.01	0.05	0.25	1	5	20		
	E102102.D	E102103.D	E102104.D	E102105.D	E102106.D	E102107.D	E102108.D		
Compound								**Avg**	**%RSD**
Acenaphthene-d10	ISTD								
Benzene-d6	1.37791	1.32419	1.17579	1.23417	1.20428	1.18609	1.19838	**1.24**	**6.24**
Toluene-d8	1.49977	1.32097	1.34015	1.29318	1.27831	1.25981	1.23844	**1.32**	**6.60**
Phenanthrene-d10	2.09342	2.06613	2.01926	2.09514	2.07527	2.13804	2.13080	**2.09**	**1.93**
Benzo(a)pyrene-d12	1.10295	1.20161	1.20439	1.26244	1.22733	1.27953	1.43002	**1.24**	**8.02**
Perylene-d12	1.57475	1.56774	1.51469	1.55922	1.49830	1.57877	1.60581	**1.56**	**2.42**

Tue Nov 02 18:33:47 2010

METHOD SAVED AS E101029A.M FOR SAMPLE PROCESSING.

11/2/10

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102102.D
Acq On : 21 Oct 2010 12:05 pm
Operator : CAM
Sample : A974
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 09:25:54 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Thu Oct 21 10:03:19 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	64010m	1.000	µg/mL	-0.02
System Monitoring Compounds						
2) Benzene-d6	7.20	84	441m	0.005	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	0.00%	
3) Toluene-d8	9.19	98	480	0.005	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	1.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	44195m	0.960	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	96.00%	
5) Phenanthrene-d10	28.79	188	670m	0.005	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	1.00%	
6) Chrysene-d12	38.95	240	117166m	0.901	µg/mL	-0.01
Spiked Amount 1.000			Recovery	=	90.00%	
7) Benzo(a)pyrene-d12	44.63	264	353m	0.004	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	0.00%	
8) Perylene-d12	44.98	264	504m	0.005	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	1.00%	
Target Compounds						Qvalue
9) Benzene	7.25	78	1222m	0.012	µg/mL	
10) Toluene	9.28	91	2050m	0.018	µg/mL	
11) C1-Benzene	0.00	92	0	N.D.	d	
12) Ethylbenzene	11.38	91	844m	0.005	µg/mL	
13) m/p-Xylenes	11.54	91	804m	0.006	µg/mL	
14) Styrene	12.03	104	4640m	0.057	µg/mL	
15) o-Xylene	12.09	91	659m	0.005	µg/mL	
16) C2-Benzenes	0.00	106	0	N.D.	d	
17) Isopropylbenzene	12.78	105	694m	0.005	µg/mL	
18) n-Propylbenzene	13.43	91	932m	0.005	µg/mL	
19) 1,3,5-Trimethylbenzene	13.75	105	723m	0.005	µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	770m	0.006	µg/mL	
21) C3-Benzenes	0.00	120	0	N.D.		
22) t-Butylbenzene	14.29	119	589m	0.005	µg/mL	
23) sec-Butylbenzene	14.69	105	843m	0.005	µg/mL	
24) p-Isopropyltoluene	14.96	119	642m	0.005	µg/mL	
25) n-Butylbenzene	15.62	91	755m	0.005	µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.		
27) C5-Benzenes	0.00	148	0	N.D.		
28) trans-Decalin	15.75	138	146m	0.005	µg/mL	
29) cis-Decalin	16.70	138	103m	0.005	µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D.		
31) Naphthalene	18.37	128	919m	0.005	µg/mL	
32) 2-Methylnaphthalene	20.41	142	639m	0.006	µg/mL	
33) 1-Methylnaphthalene	20.74	142	593m	0.005	µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D.	d	
35) C2-Naphthalenes	0.00	156	0	N.D.		
36) C3-Naphthalenes	0.00	170	0	N.D.		
37) C4-Naphthalenes	0.00	184	0	N.D.		
38) Biphenyl	21.84	154	931m	0.006	µg/mL	
39) Acenaphthylene	23.23	152	944m	0.006	µg/mL	
40) Acenaphthene	23.82	154	576m	0.005	µg/mL	
41) Dibenzofuran	24.33	168	897m	0.005	µg/mL	
42) Fluorene	25.50	166	714m	0.005	µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102102.D
Acq On : 21 Oct 2010 12:05 pm
Operator : CAM
Sample : A974
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 09:25:54 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Thu Oct 21 10:03:19 2010
Response via : Initial Calibration

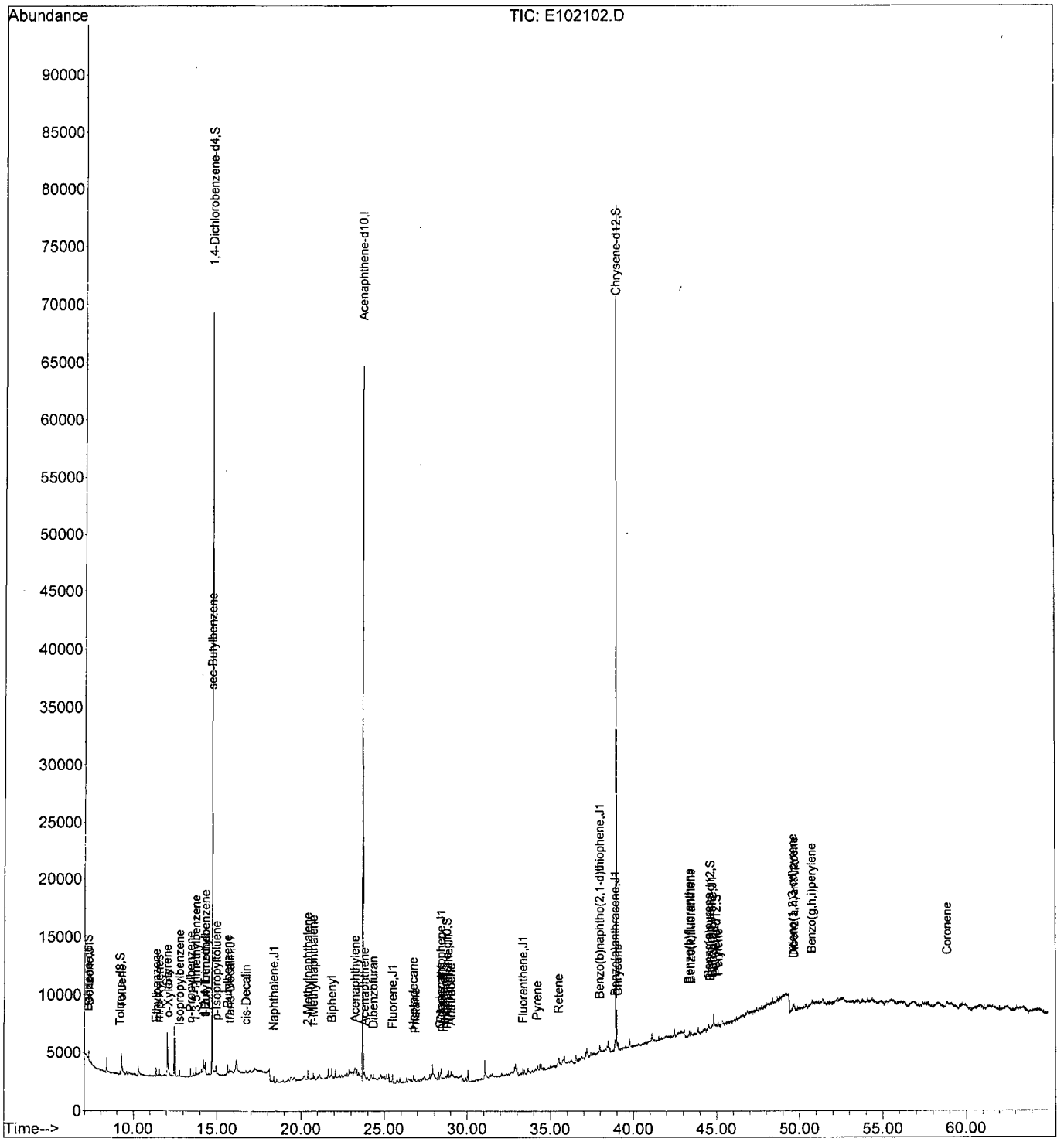
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.		
45) C3-Fluorenes	0.00	208	0	N.D.		
46) Phenanthrene	28.86	178	1144m	0.006	µg/mL	
47) Anthracene	29.03	178	1091m	0.006	µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.		
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.		
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.		
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.		
52) Retene	35.48	234	206m	0.007	µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.		
54) Dibenzothiophene	28.42	184	1046m	0.005	µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.		
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.		
57) C2-Dibenzothiophenes	0.00	212	0	N.D.		
58) C3-Dibenzothiophenes	0.00	226	0	N.D.		
59) C4-Dibenzothiophenes	0.00	240	0	N.D.		
60) Benzo(b)naphtho(2,1-d)thio	37.97	234	1182m	0.005	µg/mL	
61) Fluoranthene	33.36	202	1271m	0.006	µg/mL	
62) Pyrene	34.20	202	1189m	0.005	µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.		
64) 2-Methylpyrene	0.00	216	0	N.D.		
65) 4-Methylpyrene	0.00	216	0	N.D.		
66) 1-Methylpyrene	0.00	216	0	N.D.		
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.		
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.		
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.		
70) Benzo(a)anthracene	38.88	228	1120m	0.005	µg/mL	
71) Chrysene	39.04	228	1062m	0.005	µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.		
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.		
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.		
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.		
76) Benzo(b)fluoranthene	43.36	252	1141m	0.005	µg/mL	
77) Benzo(k)fluoranthene	43.46	252	1103m	0.005	µg/mL	
78) Benzo(e)pyrene	44.52	252	1046m	0.005	µg/mL	
79) Benzo(a)pyrene	44.74	252	993m	0.005	µg/mL	
80) Perylene	45.10	252	914m	0.005	µg/mL	
81) Indeno(1,2,3-cd)pyrene	49.61	276	986m	0.005	µg/mL	
82) Dibenz(a,h)anthracene	49.68	278	851m	0.005	µg/mL	
83) Benzo(g,h,i)perylene	50.73	276	949m	0.004	µg/mL	
84) Coronene	58.87	300	975m	0.005	µg/mL	
85) Heptadecane	26.76	85	478m	0.013	µg/mL	
86) Pristane	26.87	85	140m	0.005	µg/mL	
87) Octadecane	28.37	85	582m	0.014	µg/mL	
88) Phytane	28.55	85	237m	0.006	µg/mL	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	d	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.		
91) Norpristane	0.00	85	0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102102.D
Acq On : 21 Oct 2010 12:05 pm
Operator : CAM
Sample : A974
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 22 09:25:54 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Thu Oct 21 10:03:19 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102103.D
Acq On : 21 Oct 2010 1:22 pm
Operator : CAM
Sample : A975
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 22 09:34:59 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:26:32 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	62000m	1.000 µg/mL	-0.02
System Monitoring Compounds					
2) Benzene-d6	7.22	84	821m	0.007 µg/mL	0.00
Spiked Amount 1.000			Recovery	= 1.00%	
3) Toluene-d8	9.20	98	819	0.009 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 1.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	42778m	0.999 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 100.00%	
5) Phenanthrene-d10	28.79	188	1281m	0.010 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 1.00%	
6) Chrysene-d12	38.94	240	124404m	1.096 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 110.00%	
7) Benzo(a)pyrene-d12	44.63	264	745m	0.011 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 1.00%	
8) Perylene-d12	44.98	264	972m	0.010 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 1.00%	
Target Compounds					Qvalue
9) Benzene	7.26	78	1616m	0.007 µg/mL	
10) Toluene	9.28	91	2672m	0.007 µg/mL	
11) C1-Benzene	0.00	92	0	N.D.	d
12) Ethylbenzene	11.37	91	1492m	0.009 µg/mL	
13) m/p-Xylenes	11.55	91	1417m	0.009 µg/mL	
14) Styrene	12.03	104	5064m	0.006 µg/mL	
15) o-Xylene	12.09	91	1222m	0.010 µg/mL	
16) C2-Benzenes	0.00	106	0	N.D.	d
17) Isopropylbenzene	12.78	105	1308m	0.010 µg/mL	
18) n-Propylbenzene	13.43	91	1759m	0.010 µg/mL	
19) 1,3,5-Trimethylbenzene	13.74	105	1292m	0.009 µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	1326m	0.009 µg/mL	
21) C3-Benzenes	0.00	120	0	N.D.	
22) t-Butylbenzene	14.29	119	1112m	0.010 µg/mL	
23) sec-Butylbenzene	14.69	105	1611m	0.010 µg/mL	
24) p-Isopropyltoluene	14.95	119	1233m	0.010 µg/mL	
25) n-Butylbenzene	15.62	91	1394m	0.010 µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.75	138	284m	0.010 µg/mL	
29) cis-Decalin	16.69	138	212m	0.011 µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D.	
31) Naphthalene	18.37	128	1735m	0.010 µg/mL	
32) 2-Methylnaphthalene	20.42	142	1140m	0.009 µg/mL	
33) 1-Methylnaphthalene	20.74	142	1194m	0.010 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D.	d
35) C2-Naphthalenes	0.00	156	0	N.D.	
36) C3-Naphthalenes	0.00	170	0	N.D.	
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.84	154	1589m	0.009 µg/mL	
39) Acenaphthylene	23.22	152	1660m	0.009 µg/mL	
40) Acenaphthene	23.81	154	1099m	0.010 µg/mL	
41) Dibenzofuran	24.34	168	1691m	0.010 µg/mL	
42) Fluorene	25.50	166	1432m	0.010 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102103.D
Acq On : 21 Oct 2010 1:22 pm
Operator : CAM
Sample : A975
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 22 09:34:59 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:26:32 2010
Response via : Initial Calibration

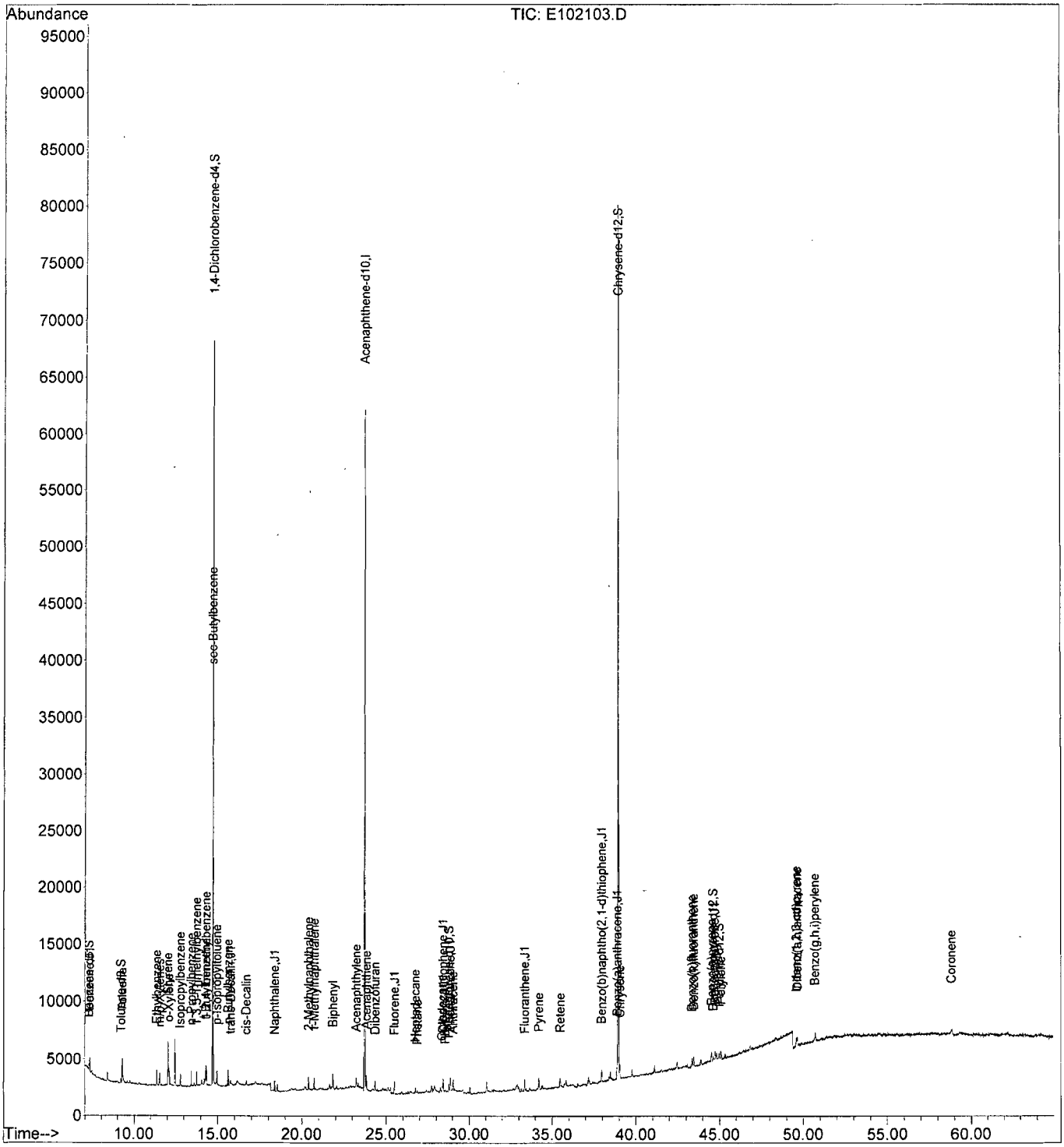
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.	
45) C3-Fluorenes	0.00	208	0	N.D.	
46) Phenanthrene	28.86	178	2090m	0.009 µg/mL	
47) Anthracene	29.02	178	1795m	0.008 µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.	
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.	
52) Retene	35.48	234	375m	0.009 µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.	
54) Dibenzothiophene	28.41	184	1955m	0.010 µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.	
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.	
57) C2-Dibenzothiophenes	0.00	212	0	N.D.	
58) C3-Dibenzothiophenes	0.00	226	0	N.D.	
59) C4-Dibenzothiophenes	0.00	240	0	N.D.	
60) Benzo(b)naphtho(2,1-d)thio	37.96	234	2171m	0.009 µg/mL	
61) Fluoranthene	33.34	202	2292m	0.009 µg/mL	
62) Pyrene	34.20	202	2368m	0.010 µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.	
64) 2-Methylpyrene	0.00	216	0	N.D.	
65) 4-Methylpyrene	0.00	216	0	N.D.	
66) 1-Methylpyrene	0.00	216	0	N.D.	
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
70) Benzo(a)anthracene	38.88	228	2235m	0.010 µg/mL	
71) Chrysene	39.04	228	2127m	0.010 µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.	
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.	
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.	
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.	
76) Benzo(b)fluoranthene	43.36	252	2201m	0.010 µg/mL	
77) Benzo(k)fluoranthene	43.45	252	2157m	0.010 µg/mL	
78) Benzo(e)pyrene	44.53	252	2005m	0.010 µg/mL	
79) Benzo(a)pyrene	44.73	252	2047m	0.011 µg/mL	
80) Perylene	45.08	252	1970m	0.011 µg/mL	
81) Indeno(1,2,3-cd)pyrene	49.60	276	1910m	0.010 µg/mL	
82) Dibenz(a,h)anthracene	49.66	278	1727m	0.010 µg/mL	
83) Benzo(g,h,i)perylene	50.71	276	1902m	0.010 µg/mL	
84) Coronene	58.85	300	1711m	0.009 µg/mL	
85) Heptadecane	26.76	85	621m	0.007 µg/mL	
86) Pristane	26.87	85	283m	0.010 µg/mL	
87) Octadecane	28.36	85	745m	0.007 µg/mL	
88) Phytane	28.55	85	374m	0.008 µg/mL	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.	
91) Norpristane	0.00	85	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102103.D
Acq On : 21 Oct 2010 1:22 pm
Operator : CAM
Sample : A975
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 22 09:34:59 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:26:32 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102104.D
Acq On : 21 Oct 2010 2:38 pm
Operator : CAM
Sample : A976
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 22 09:44:58 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:35:13 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	60844m	1.000 µg/mL	-0.02
System Monitoring Compounds					
2) Benzene-d6	7.22	84	3577m	-1.000 µg/mL	0.00
Spiked Amount 1.000			Recovery	= -100.00%	
3) Toluene-d8	9.20	98	4077m	-1.000 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= -100.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	42004m	1.000 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 100.00%	
5) Phenanthrene-d10	28.78	188	6143m	0.049 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 5.00%	
6) Chrysene-d12	38.94	240	124192m	1.064 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 106.00%	
7) Benzo(a)pyrene-d12	44.63	264	3664m	0.052 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 5.00%	
8) Perylene-d12	44.98	264	4608m	0.048 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 5.00%	
Target Compounds					Qvalue
9) Benzene	7.26	78	4877m	0.028 µg/mL	
10) Toluene	9.29	91	6295m	0.022 µg/mL	
11) C1-Benzene	0.00	92	0	N.D. d	
12) Ethylbenzene	11.38	91	6890m	0.045 µg/mL	
13) m/p-Xylenes	11.55	91	5837m	0.040 µg/mL	
14) Styrene	12.03	104	7516m	Below Cal	
15) o-Xylene	12.10	91	5669m	0.046 µg/mL	
16) C2-Benzenes	0.00	106	0	N.D. d	
17) Isopropylbenzene	12.78	105	6131m	0.047 µg/mL	
18) n-Propylbenzene	13.43	91	8109m	0.046 µg/mL	
19) 1,3,5-Trimethylbenzene	13.74	105	5954	0.045 µg/mL	99
20) 1,2,4-Trimethylbenzene	14.31	105	6068	0.044 µg/mL	89
21) C3-Benzenes	0.00	120	0	N.D.	
22) t-Butylbenzene	14.29	119	5327m	0.048 µg/mL	
23) sec-Butylbenzene	14.68	105	7469m	0.047 µg/mL	
24) p-Isopropyltoluene	14.95	119	5861m	0.048 µg/mL	
25) n-Butylbenzene	15.62	91	6428	0.046 µg/mL	98
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.75	138	1322m	0.048 µg/mL	
29) cis-Decalin	16.70	138	973m	0.048 µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D. d	
31) Naphthalene	18.37	128	8242m	0.048 µg/mL	
32) 2-Methylnaphthalene	20.41	142	5212m	0.045 µg/mL	
33) 1-Methylnaphthalene	20.74	142	5319m	0.046 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D. d	
35) C2-Naphthalenes	0.00	156	0	N.D.	
36) C3-Naphthalenes	0.00	170	0	N.D.	
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.84	154	7093m	0.043 µg/mL	
39) Acenaphthylene	23.22	152	7733m	0.045 µg/mL	
40) Acenaphthene	23.81	154	5075m	0.047 µg/mL	
41) Dibenzofuran	24.33	168	7919m	0.047 µg/mL	
42) Fluorene	25.49	166	6321m	0.046 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102104.D
Acq On : 21 Oct 2010 2:38 pm
Operator : CAM
Sample : A976
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 22 09:44:58 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:35:13 2010
Response via : Initial Calibration

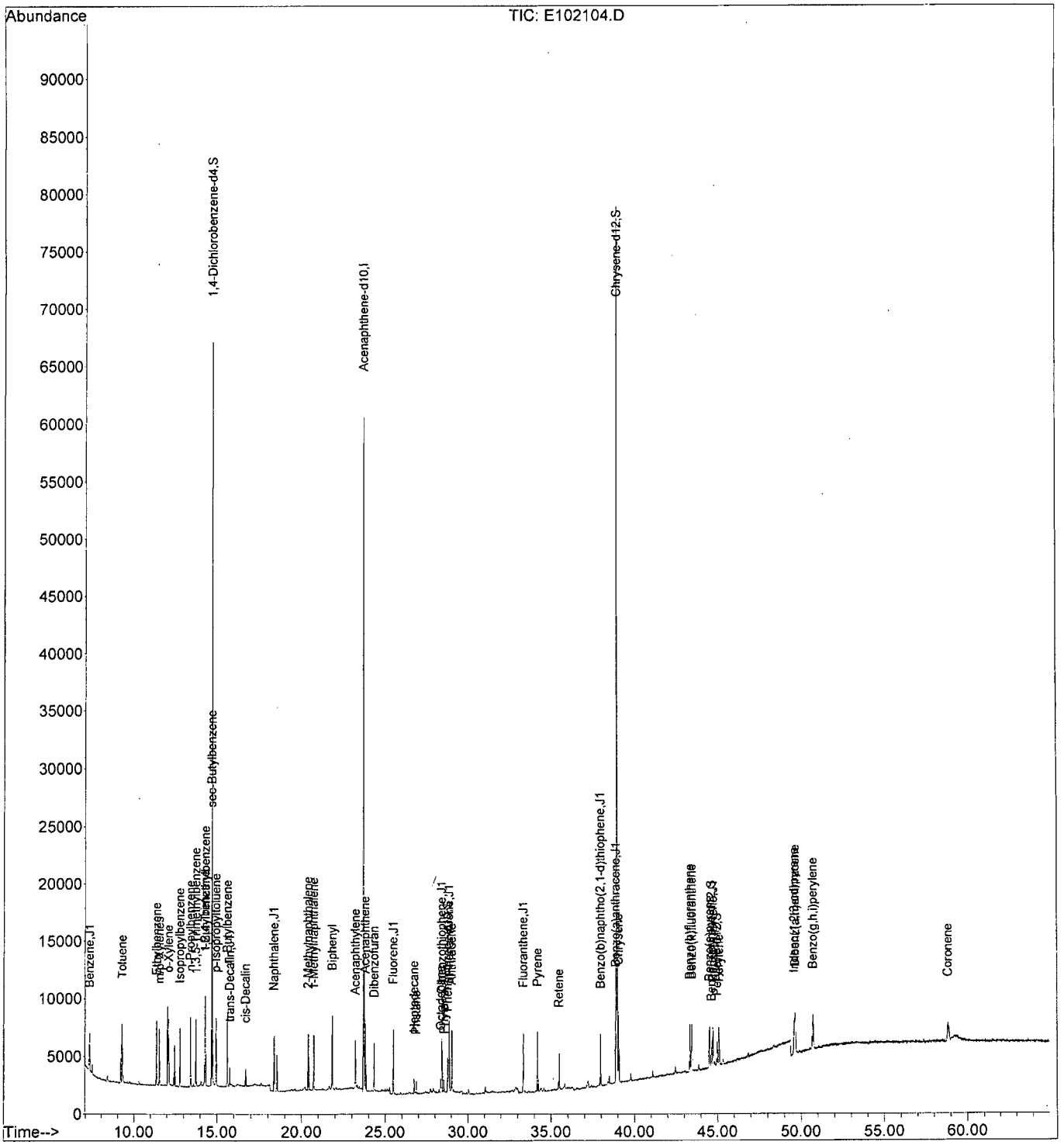
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.	
45) C3-Fluorenes	0.00	208	0	N.D.	
46) Phenanthrene	28.86	178	9867m	0.047 µg/mL	
47) Anthracene	29.03	178	9131m	0.048 µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.	
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.	
52) Retene	35.48	234	1594m	0.042 µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.	
54) Dibenzothiophene	28.41	184	9231m	0.047 µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.	
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.	
57) C2-Dibenzothiophenes	0.00	212	0	N.D.	
58) C3-Dibenzothiophenes	0.00	226	0	N.D.	
59) C4-Dibenzothiophenes	0.00	240	0	N.D.	
60) Benzo(b)naphtho(2,1-d)thio	37.95	234	10585m	0.048 µg/mL	
61) Fluoranthene	33.34	202	10987m	0.047 µg/mL	
62) Pyrene	34.20	202	11408m	0.050 µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.	
64) 2-Methylpyrene	0.00	216	0	N.D.	
65) 4-Methylpyrene	0.00	216	0	N.D.	
66) 1-Methylpyrene	0.00	216	0	N.D.	
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
70) Benzo(a)anthracene	38.88	228	10342m	0.048 µg/mL	
71) Chrysene	39.04	228	10017m	0.049 µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.	
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.	
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.	
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.	
76) Benzo(b)fluoranthene	43.35	252	10315m	0.048 µg/mL	
77) Benzo(k)fluoranthene	43.45	252	10340m	0.049 µg/mL	
78) Benzo(e)pyrene	44.52	252	9519m	0.048 µg/mL	
79) Benzo(a)pyrene	44.74	252	9238m	0.047 µg/mL	
80) Perylene	45.09	252	8906m	0.049 µg/mL	
81) Indeno(1,2,3-cd)pyrene	49.60	276	9234m	0.049 µg/mL	
82) Dibenz(a,h)anthracene	49.66	278	8208m	0.050 µg/mL	
83) Benzo(g,h,i)perylene	50.72	276	8942m	0.049 µg/mL	
84) Coronene	58.85	300	7612m	0.043 µg/mL	
85) Heptadecane	26.75	85	1880m	0.028 µg/mL	
86) Pristane	26.87	85	1238m	0.045 µg/mL	
87) Octadecane	28.36	85	1951m	0.024 µg/mL	
88) Phytane	28.55	85	1644m	0.043 µg/mL	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.	
91) Norpristane	0.00	85	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102104.D
Acq On : 21 Oct 2010 2:38 pm
Operator : CAM
Sample : A976
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 22 09:44:58 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:35:13 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102105.D
Acq On : 21 Oct 2010 3:55 pm
Operator : CAM
Sample : A977
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 22 09:54:30 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:45:22 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	61405m	1.000 µg/mL	-0.03
System Monitoring Compounds					
2) Benzene-d6	7.21	84	18946m	-1.000 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= -100.00%	
3) Toluene-d8	9.20	98	19852m	0.262 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 26.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	42316m	0.998 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 100.00%	
5) Phenanthrene-d10	28.78	188	32163m	0.254 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 25.00%	
6) Chrysene-d12	38.94	240	126871m	1.054 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 105.00%	
7) Benzo(a)pyrene-d12	44.63	264	19380m	0.270 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 27.00%	
8) Perylene-d12	44.98	264	23936m	0.251 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 25.00%	
Target Compounds					Qvalue
9) Benzene	7.25	78	21465m	0.210 µg/mL	
10) Toluene	9.28	91	27603m	0.205 µg/mL	
11) C1-Benzene	0.00	92	0	N.D.	d
12) Ethylbenzene	11.37	91	34230m	0.229 µg/mL	
13) m/p-Xylenes	11.55	91	28991m	0.211 µg/mL	
14) Styrene	12.03	104	22131m	Below Cal	
15) o-Xylene	12.10	91	28639m	0.237 µg/mL	
16) C2-Benzenes	0.00	106	0	N.D.	d
17) Isopropylbenzene	12.78	105	31068m	0.241 µg/mL	
18) n-Propylbenzene	13.43	91	40845m	0.237 µg/mL	
19) 1,3,5-Trimethylbenzene	13.74	105	30361m	0.235 µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	30542m	0.228 µg/mL	
21) C3-Benzenes	0.00	120	0	N.D.	
22) t-Butylbenzene	14.29	119	27106m	0.246 µg/mL	
23) sec-Butylbenzene	14.68	105	37691m	0.240 µg/mL	
24) p-Isopropyltoluene	14.95	119	29982m	0.247 µg/mL	
25) n-Butylbenzene	15.62	91	32401m	0.236 µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.75	138	6458m	0.234 µg/mL	
29) cis-Decalin	16.70	138	4955m	0.246 µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D.	d
31) Naphthalene	18.37	128	41863m	0.244 µg/mL	
32) 2-Methylnaphthalene	20.41	142	26771m	0.236 µg/mL	
33) 1-Methylnaphthalene	20.74	142	26988m	0.239 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D.	d
35) C2-Naphthalenes	0.00	156	0	N.D.	
36) C3-Naphthalenes	0.00	170	0	N.D.	d
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.84	154	36618m	0.229 µg/mL	
39) Acenaphthylene	23.22	152	40444m	0.242 µg/mL	
40) Acenaphthene	23.81	154	26343m	0.246 µg/mL	
41) Dibenzofuran	24.33	168	41376m	0.249 µg/mL	
42) Fluorene	25.49	166	33072m	0.244 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102105.D
Acq On : 21 Oct 2010 3:55 pm
Operator : CAM
Sample : A977
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 22 09:54:30 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:45:22 2010
Response via : Initial Calibration

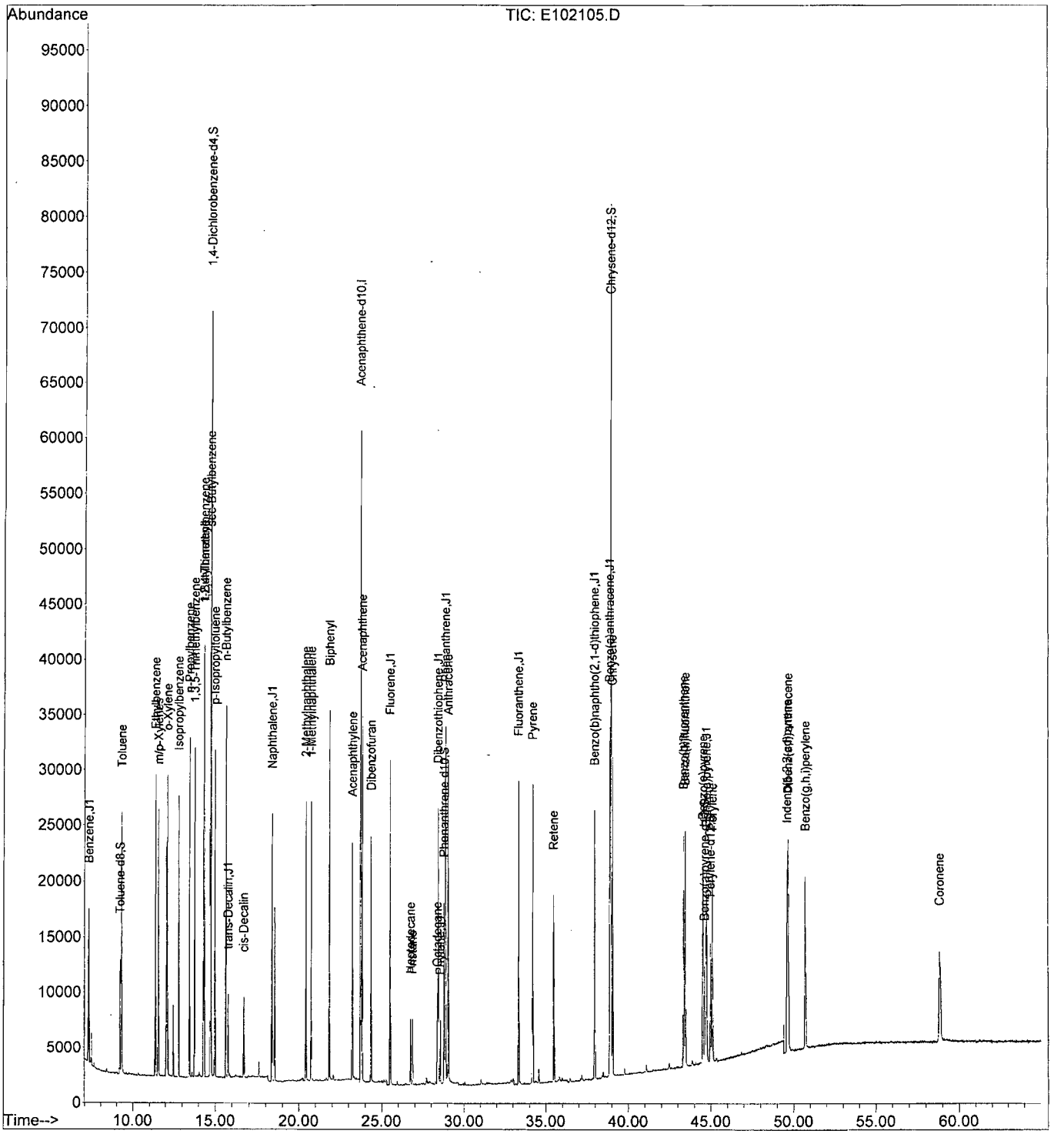
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.		
45) C3-Fluorenes	0.00	208	0	N.D.		
46) Phenanthrene	28.86	178	51111m	0.245	µg/mL	
47) Anthracene	29.03	178	48782m	0.256	µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.		
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.	d	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.	d	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.		
52) Retene	35.47	234	8099m	0.223	µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.		
54) Dibenzothiophene	28.41	184	48953m	0.253	µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.		
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.		
57) C2-Dibenzothiophenes	0.00	212	0	N.D.		
58) C3-Dibenzothiophenes	0.00	226	0	N.D.		
59) C4-Dibenzothiophenes	0.00	240	0	N.D.		
60) Benzo(b)naphtho(2,1-d)thio	37.95	234	55901m	0.256	µg/mL	
61) Fluoranthene	33.34	202	57928m	0.251	µg/mL	
62) Pyrene	34.20	202	59352m	0.257	µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.		
64) 2-Methylpyrene	0.00	216	0	N.D.		
65) 4-Methylpyrene	0.00	216	0	N.D.		
66) 1-Methylpyrene	0.00	216	0	N.D.		
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.	d	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.	d	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.		
70) Benzo(a)anthracene	38.88	228	54293m	0.253	µg/mL	
71) Chrysene	39.04	228	52194m	0.254	µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.		
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.		
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.		
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.		
76) Benzo(b)fluoranthene	43.35	252	54178	0.252	µg/mL	98
77) Benzo(k)fluoranthene	43.45	252	53694m	0.254	µg/mL	
78) Benzo(e)pyrene	44.52	252	49743m	0.252	µg/mL	
79) Benzo(a)pyrene	44.73	252	47936m	0.248	µg/mL	
80) Perylene	45.08	252	45478m	0.248	µg/mL	
81) Indeno(1,2,3-cd)pyrene	49.60	276	46296m	0.246	µg/mL	
82) Dibenz(a,h)anthracene	49.66	278	43760m	0.263	µg/mL	
83) Benzo(g,h,i)perylene	50.71	276	47051m	0.256	µg/mL	
84) Coronene	58.85	300	39845m	0.234	µg/mL	
85) Heptadecane	26.75	85	8529m	0.217	µg/mL	
86) Pristane	26.87	85	6335m	0.252	µg/mL	
87) Octadecane	28.36	85	9141m	0.221	µg/mL	
88) Phytane	28.54	85	8609m	0.257	µg/mL	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.		
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.	d	
91) Norpristane	0.00	85	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102105.D
Acq On : 21 Oct 2010 3:55 pm
Operator : CAM
Sample : A977
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 22 09:54:30 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:45:22 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102106.D
Acq On : 21 Oct 2010 5:11 pm
Operator : CAM
Sample : A978
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 10:03:16 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:54:43 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	61043m	1.000 µg/mL	-0.03
System Monitoring Compounds					
2) Benzene-d6	7.21	84	73513m	0.870 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 87.00%	
3) Toluene-d8	9.19	98	78032m	1.196 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 120.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	41458m	0.984 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 98.00%	
5) Phenanthrene-d10	28.78	188	126681m	1.003 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 100.00%	
6) Chrysene-d12	38.94	240	123307m	1.017 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 102.00%	
7) Benzo(a)pyrene-d12	44.63	264	74920m	1.029 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 103.00%	
8) Perylene-d12	44.98	264	91461m	0.964 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 96.00%	
Target Compounds					Qvalue
9) Benzene	7.25	78	82510m	0.959 µg/mL	
10) Toluene	9.28	91	103223m	0.932 µg/mL	
11) C1-Benzene	0.00	92	0	N.D. d	
12) Ethylbenzene	11.37	91	133494m	0.917 µg/mL	
13) m/p-Xylenes	11.55	91	110382m	0.841 µg/mL	
14) Styrene	12.03	104	78598m	Below Cal	
15) o-Xylene	12.10	91	111114	0.938 µg/mL	100
16) C2-Benzenes	0.00	106	0	N.D. d	
17) Isopropylbenzene	12.78	105	121276	0.955 µg/mL	98
18) n-Propylbenzene	13.43	91	159355m	0.943 µg/mL	
19) 1,3,5-Trimethylbenzene	13.74	105	117467m	0.930 µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	118925	0.914 µg/mL	92
21) C3-Benzenes	0.00	120	0	N.D.	
22) t-Butylbenzene	14.29	119	105618	0.968 µg/mL	96
23) sec-Butylbenzene	14.68	105	146671	0.948 µg/mL	100
24) p-Isopropyltoluene	14.95	119	116397m	0.969 µg/mL	
25) n-Butylbenzene	15.62	91	126361	0.938 µg/mL	100
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.75	138	25121	0.930 µg/mL	98
29) cis-Decalin	16.70	138	18985	0.952 µg/mL	96
30) Tetraethyl lead	0.00	237	0	N.D. d	
31) Naphthalene	18.37	128	164821	0.972 µg/mL	100
32) 2-Methylnaphthalene	20.41	142	106921	0.961 µg/mL	100
33) 1-Methylnaphthalene	20.74	142	106292m	0.956 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D. d	
35) C2-Naphthalenes	0.00	156	0	N.D.	
36) C3-Naphthalenes	0.00	170	0	N.D. d	
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.84	154	146246	0.941 µg/mL	99
39) Acenaphthylene	23.22	152	166361m	1.009 µg/mL	
40) Acenaphthene	23.81	154	104118m	0.981 µg/mL	
41) Dibenzofuran	24.33	168	165105m	0.999 µg/mL	
42) Fluorene	25.49	166	134011m	1.001 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102106.D
Acq On : 21 Oct 2010 5:11 pm
Operator : CAM
Sample : A978
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 10:03:16 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:54:43 2010
Response via : Initial Calibration

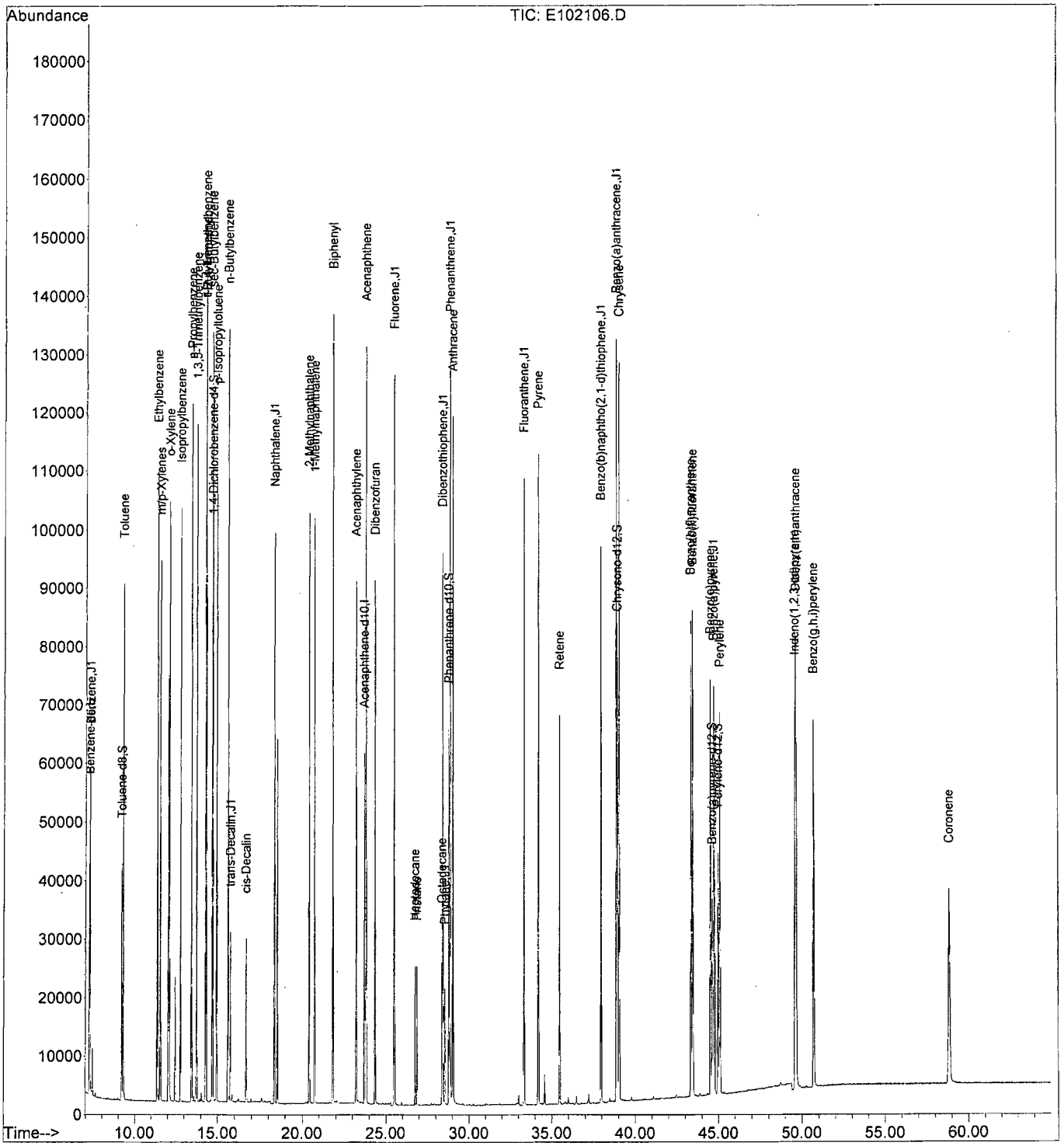
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.		
45) C3-Fluorenes	0.00	208	0	N.D.		
46) Phenanthrene	28.86	178	202030m	0.979	µg/mL	
47) Anthracene	29.03	178	195851m	1.028	µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.		
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.	d	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.	d	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.		
52) Retene	35.47	234	32793	0.934	µg/mL	100
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.		
54) Dibenzothiophene	28.41	184	192399	0.997	µg/mL	99
55) C1-Dibenzothiophenes	0.00	198	0	N.D.		
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.		
57) C2-Dibenzothiophenes	0.00	212	0	N.D.		
58) C3-Dibenzothiophenes	0.00	226	0	N.D.		
59) C4-Dibenzothiophenes	0.00	240	0	N.D.		
60) Benzo(b)naphtho(2,1-d)thio	37.95	234	225198m	1.031	µg/mL	
61) Fluoranthene	33.34	202	233656m	1.017	µg/mL	
62) Pyrene	34.20	202	241032m	1.042	µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.		
64) 2-Methylpyrene	0.00	216	0	N.D.		
65) 4-Methylpyrene	0.00	216	0	N.D.	d	
66) 1-Methylpyrene	0.00	216	0	N.D.	d	
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.	d	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.	d	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.		
70) Benzo(a)anthracene	38.88	228	219613	1.025	µg/mL	100
71) Chrysene	39.04	228	210626m	1.027	µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.		
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.		
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.		
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.		
76) Benzo(b)fluoranthene	43.35	252	218276	1.019	µg/mL	98
77) Benzo(k)fluoranthene	43.45	252	215201m	1.020	µg/mL	
78) Benzo(e)pyrene	44.52	252	199013	1.013	µg/mL	99
79) Benzo(a)pyrene	44.73	252	190050m	0.991	µg/mL	
80) Perylene	45.08	252	176891m	0.972	µg/mL	
81) Indeno(1,2,3-cd)pyrene	49.60	276	185433m	0.995	µg/mL	
82) Dibenz(a,h)anthracene	49.66	278	174853m	1.042	µg/mL	
83) Benzo(g,h,i)perylene	50.71	276	188781m	1.028	µg/mL	
84) Coronene	58.85	300	155952m	0.937	µg/mL	
85) Heptadecane	26.75	85	33890	0.993	µg/mL	95
86) Pristane	26.87	85	25482m	1.012	µg/mL	
87) Octadecane	28.36	85	36682m	1.004	µg/mL	
88) Phytane	28.54	85	34331	1.004	µg/mL	95
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.		
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.	d	
91) Norpristane	0.00	85	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102106.D
Acq On : 21 Oct 2010 5:11 pm
Operator : CAM
Sample : A978
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 22 10:03:16 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 09:54:43 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102107.D
Acq On : 21 Oct 2010 6:28 pm
Operator : CAM
Sample : A979
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 22 10:27:28 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:03:27 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	64090m	1.000 µg/mL	-0.03
System Monitoring Compounds					
2) Benzene-d6	7.21	84	380083m	5.733 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 573.00%	
3) Toluene-d8	9.19	98	403707m	5.341 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 534.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	43539m	0.988 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 99.00%	
5) Phenanthrene-d10	28.78	188	685135m	5.165 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 516.00%	
6) Chrysene-d12	38.94	240	131658m	1.031 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 103.00%	
7) Benzo(a)pyrene-d12	44.65	264	410024m	5.332 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 533.00%	
8) Perylene-d12	44.99	264	505917m	5.116 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 512.00%	
Target Compounds					Qvalue
9) Benzene	7.25	78	423332m	4.874 µg/mL	
10) Toluene	9.28	91	518404m	4.762 µg/mL	
11) C1-Benzene	0.00	92	0	N.D.	d
12) Ethylbenzene	11.37	91	690489m	4.594 µg/mL	
13) m/p-Xylenes	11.55	91	576643m	4.320 µg/mL	
14) Styrene	12.03	104	391284m	Below Cal	
15) o-Xylene	12.10	91	579164m	4.717 µg/mL	
16) C2-Benzenes	0.00	106	0	N.D.	d
17) Isopropylbenzene	12.78	105	633065m	4.793 µg/mL	
18) n-Propylbenzene	13.43	91	840574m	4.792 µg/mL	
19) 1,3,5-Trimethylbenzene	13.74	105	621828m	4.755 µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	634654m	4.726 µg/mL	
21) C3-Benzenes	0.00	120	0	N.D.	d
22) t-Butylbenzene	14.29	119	557472m	4.897 µg/mL	
23) sec-Butylbenzene	14.68	105	776871m	4.831 µg/mL	
24) p-Isopropyltoluene	14.95	119	621766m	4.959 µg/mL	
25) n-Butylbenzene	15.62	91	674068m	4.824 µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.75	138	133493m	4.775 µg/mL	
29) cis-Decalin	16.70	138	101054m	4.874 µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D.	d
31) Naphthalene	18.37	128	882874m	4.989 µg/mL	
32) 2-Methylnaphthalene	20.41	142	579511m	4.999 µg/mL	
33) 1-Methylnaphthalene	20.74	142	575689m	4.976 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D.	d
35) C2-Naphthalenes	0.00	156	0	N.D.	
36) C3-Naphthalenes	0.00	170	0	N.D.	d
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.84	154	790032m	4.898 µg/mL	
39) Acenaphthylene	23.22	152	922644m	5.321 µg/mL	
40) Acenaphthene	23.82	154	569609m	5.130 µg/mL	
41) Dibenzofuran	24.33	168	897249m	5.172 µg/mL	
42) Fluorene	25.49	166	743924m	5.291 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102107.D
Acq On : 21 Oct 2010 6:28 pm
Operator : CAM
Sample : A979
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 22 10:27:28 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:03:27 2010
Response via : Initial Calibration

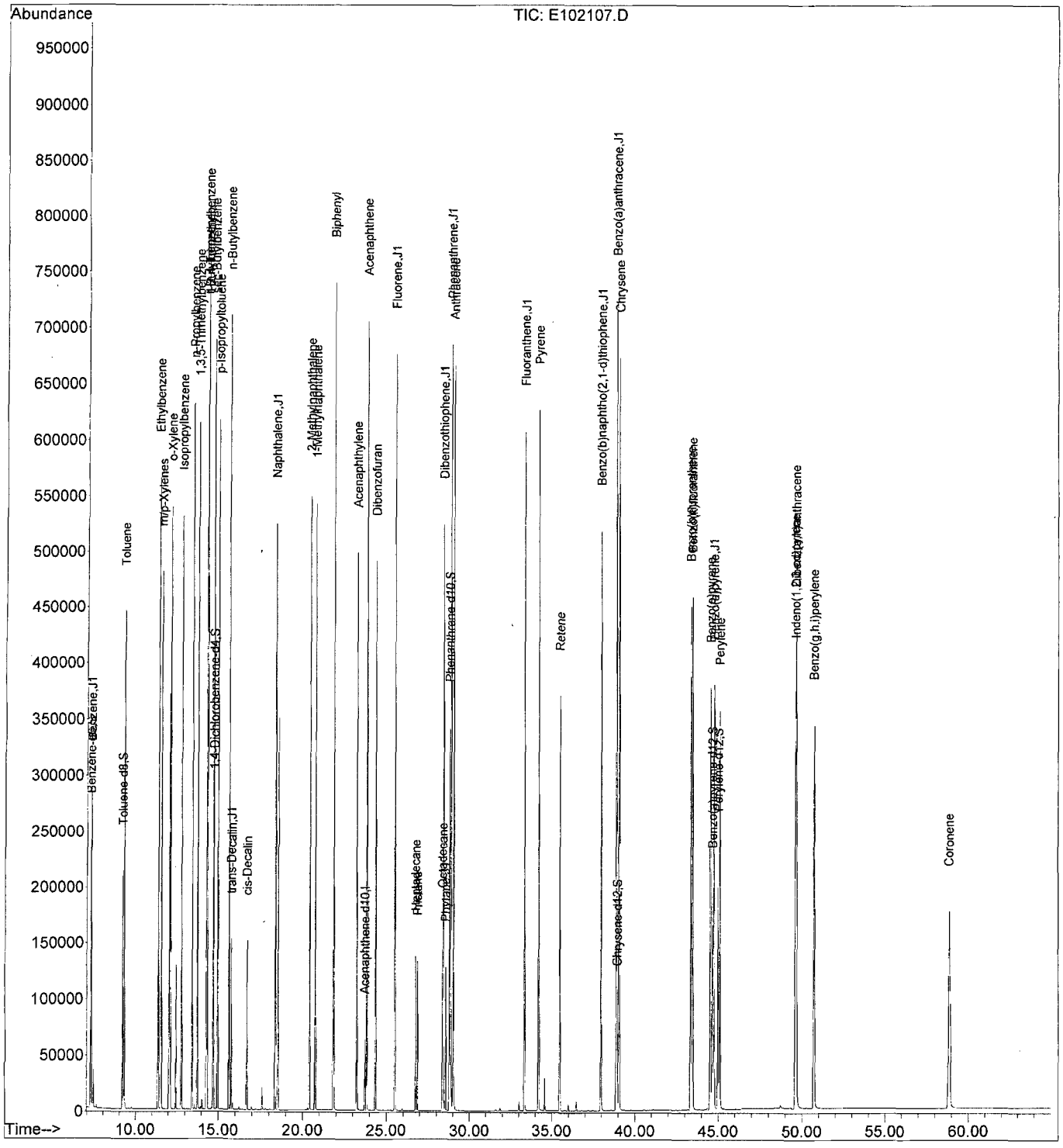
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.	
45) C3-Fluorenes	0.00	208	0	N.D.	
46) Phenanthrene	28.87	178	1095563m	5.079 µg/mL	
47) Anthracene	29.03	178	1054420m	5.242 µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D. d	
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D. d	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D. d	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.	
52) Retene	35.48	234	183947m	5.058 µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.	
54) Dibenzothiophene	28.41	184	1035554m	5.114 µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.	
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.	
57) C2-Dibenzothiophenes	0.00	212	0	N.D. d	
58) C3-Dibenzothiophenes	0.00	226	0	N.D.	
59) C4-Dibenzothiophenes	0.00	240	0	N.D.	
60) Benzo(b)naphtho(2,1-d)thio	37.96	234	1250522m	5.419 µg/mL	
61) Fluoranthene	33.35	202	1296127m	5.356 µg/mL	
62) Pyrene	34.20	202	1332070m	5.441 µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.	
64) 2-Methylpyrene	0.00	216	0	N.D.	
65) 4-Methylpyrene	0.00	216	0	N.D. d	
66) 1-Methylpyrene	0.00	216	0	N.D. d	
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D. d	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D. d	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
70) Benzo(a)anthracene	38.88	228	1221165	5.401 µg/mL	100
71) Chrysene	39.04	228	1135415m	5.244 µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.	
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D. d	
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.	
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.	
76) Benzo(b)fluoranthene	43.36	252	1205731	5.341 µg/mL	98
77) Benzo(k)fluoranthene	43.46	252	1179271	5.303 µg/mL	98
78) Benzo(e)pyrene	44.53	252	1088443	5.264 µg/mL	99
79) Benzo(a)pyrene	44.75	252	1028328	5.117 µg/mL	99
80) Perylene	45.10	252	955308	5.029 µg/mL	99
81) Indeno(1,2,3-cd)pyrene	49.61	276	1028854m	5.263 µg/mL	
82) Dibenz(a,h)anthracene	49.67	278	969563	5.458 µg/mL#	66
83) Benzo(g,h,i)perylene	50.73	276	1036077m	5.342 µg/mL	
84) Coronene	58.89	300	844398m	4.895 µg/mL	
85) Heptadecane	26.76	85	191803m	5.388 µg/mL	
86) Pristane	26.87	85	139644m	5.223 µg/mL	
87) Octadecane	28.37	85	207614m	5.392 µg/mL	
88) Phytane	28.55	85	191044m	5.302 µg/mL	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D. d	
91) Norpristane	0.00	85	0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102107.D
Acq On : 21 Oct 2010 6:28 pm
Operator : CAM
Sample : A979
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 22 10:27:28 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:03:27 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102108.D
Acq On : 21 Oct 2010 7:44 pm
Operator : CAM
Sample : A980
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 11:17:15 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:29:20 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	60806m	1.000 µg/mL	-0.03
System Monitoring Compounds					
2) Benzene-d6	7.20	84	1457370m	21.735 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 2173.00%	
3) Toluene-d8	9.19	98	1506094m	20.951 µg/mL	-0.03
Spiked Amount 1.000			Recovery	= 2095.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	41568m	0.996 µg/mL	-0.02
Spiked Amount 1.000			Recovery	= 100.00%	
5) Phenanthrene-d10	28.80	188	2591312m	20.477 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 2048.00%	
6) Chrysene-d12	38.95	240	127994m	1.051 µg/mL	-0.01
Spiked Amount 1.000			Recovery	= 105.00%	
7) Benzo(a)pyrene-d12	44.68	264	1739082m	23.578 µg/mL	0.02
Spiked Amount 1.000			Recovery	= 2358.00%	
8) Perylene-d12	45.02	264	1952853m	20.735 µg/mL	0.02
Spiked Amount 1.000			Recovery	= 2073.00%	

Target Compounds					Qvalue
9) Benzene	7.23	78	1614765m	20.081 µg/mL	
10) Toluene	9.27	91	1954957m	19.833 µg/mL	
11) C1-Benzene	0.00	92	0	N.D.	
12) Ethylbenzene	11.37	91	2604876m	18.519 µg/mL	
13) m/p-Xylenes	11.55	91	2174873m	17.572 µg/mL	
14) Styrene	12.03	104	1468200m	Below Cal	
15) o-Xylene	12.10	91	2191239m	18.989 µg/mL	
16) C2-Benzenes	0.00	106	0	N.D. d	
17) Isopropylbenzene	12.78	105	2393511m	19.234 µg/mL	
18) n-Propylbenzene	13.43	91	3180633m	19.244 µg/mL	
19) 1,3,5-Trimethylbenzene	13.75	105	2358728m	19.168 µg/mL	
20) 1,2,4-Trimethylbenzene	14.32	105	2442772m	19.349 µg/mL	
21) C3-Benzenes	0.00	120	0	N.D. d	
22) t-Butylbenzene	14.30	119	2124635	19.740 µg/mL	95
23) sec-Butylbenzene	14.69	105	2938107m	19.367 µg/mL	
24) p-Isopropyltoluene	14.96	119	2352531m	19.804 µg/mL	
25) n-Butylbenzene	15.62	91	2556819m	19.400 µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.	
27) C5-Benzenes	0.00	148	0	N.D.	
28) trans-Decalin	15.76	138	507301m	19.271 µg/mL	
29) cis-Decalin	16.70	138	385235m	19.668 µg/mL	
30) Tetraethyl lead	0.00	237	0	N.D. d	
31) Naphthalene	18.37	128	3312285m	19.735 µg/mL	
32) 2-Methylnaphthalene	20.42	142	2171826m	19.747 µg/mL	
33) 1-Methylnaphthalene	20.74	142	2160668m	19.699 µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D. d	
35) C2-Naphthalenes	0.00	156	0	N.D. d	
36) C3-Naphthalenes	0.00	170	0	N.D. d	
37) C4-Naphthalenes	0.00	184	0	N.D.	
38) Biphenyl	21.85	154	2950484m	19.345 µg/mL	
39) Acenaphthylene	23.23	152	3510796m	21.113 µg/mL	
40) Acenaphthene	23.82	154	2133429m	20.165 µg/mL	
41) Dibenzofuran	24.34	168	3364690m	20.327 µg/mL	
42) Fluorene	25.50	166	2829282m	21.007 µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102108.D
Acq On : 21 Oct 2010 7:44 pm
Operator : CAM
Sample : A980
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 11:17:15 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:29:20 2010
Response via : Initial Calibration

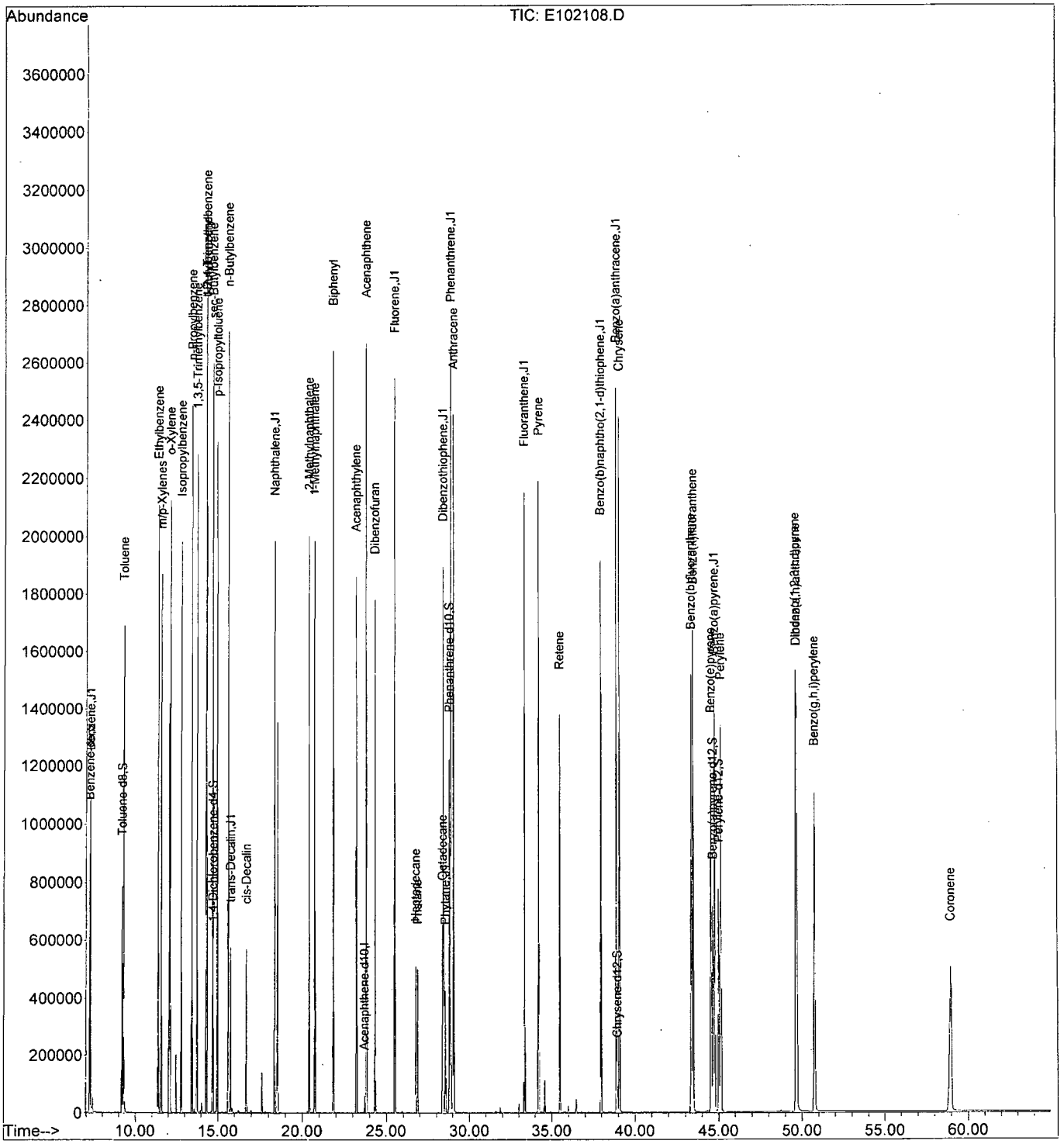
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.	
45) C3-Fluorenes	0.00	208	0	N.D.	
46) Phenanthrene	28.88	178	4174716m	20.346 µg/mL	
47) Anthracene	29.04	178	3918386m	20.369 µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D. d	
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D. d	
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D. d	
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D. d	
52) Retene	35.48	234	696305m	20.141 µg/mL	
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D. d	
54) Dibenzothiophene	28.43	184	3903381m	20.242 µg/mL	
55) C1-Dibenzothiophenes	0.00	198	0	N.D.	
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.	
57) C2-Dibenzothiophenes	0.00	212	0	N.D. d	
58) C3-Dibenzothiophenes	0.00	226	0	N.D.	
59) C4-Dibenzothiophenes	0.00	240	0	N.D.	
60) Benzo(b)naphtho(2,1-d)thio	37.98	234	4747207m	21.382 µg/mL	
61) Fluoranthene	33.36	202	4833778	20.805 µg/mL	99
62) Pyrene	34.22	202	4958812m	21.040 µg/mL	
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.	
64) 2-Methylpyrene	0.00	216	0	N.D. d	
65) 4-Methylpyrene	0.00	216	0	N.D. d	
66) 1-Methylpyrene	0.00	216	0	N.D. d	
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D. d	
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D. d	
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.	
70) Benzo(a)anthracene	38.90	228	4593482	21.132 µg/mL	99
71) Chrysene	39.07	228	4262968m	20.584 µg/mL	
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D. d	
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D. d	
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.	
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.	
76) Benzo(b)fluoranthene	43.39	252	4576078	21.126 µg/mL	98
77) Benzo(k)fluoranthene	43.50	252	4472882m	20.990 µg/mL	
78) Benzo(e)pyrene	44.56	252	4096497	20.699 µg/mL	99
79) Benzo(a)pyrene	44.79	252	3906629m	20.411 µg/mL	
80) Perylene	45.15	252	3706715	20.546 µg/mL	99
81) Indeno(1,2,3-cd)pyrene	49.66	276	3927248m	20.991 µg/mL	
82) Dibenz(a,h)anthracene	49.71	278	3689635m	21.564 µg/mL	
83) Benzo(g,h,i)perylene	50.78	276	3833296m	20.598 µg/mL	
84) Coronene	58.99	300	3133514	19.212 µg/mL	100
85) Heptadecane	26.76	85	745618	20.547 µg/mL	94
86) Pristane	26.88	85	542335	20.503 µg/mL	95
87) Octadecane	28.38	85	805546m	20.509 µg/mL	
88) Phytane	28.56	85	743265	20.551 µg/mL	93
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D. d	
91) Norpristane	0.00	85	0	N.D. d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102108.D
Acq On : 21 Oct 2010 7:44 pm
Operator : CAM
Sample : A980
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 22 11:17:15 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 10:29:20 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102109.D
Acq.On : 21 Oct 2010 9:01 pm
Operator : CAM
Sample : A982
Misc :
ALS Vial : 9 Sample Multiplier: 1

ICV.

11/2/10

Quant Time: Oct 22 11:27:18 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 11:21:26 2010
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	23.71	164	61457m	1.000	µg/mL	-0.03
System Monitoring Compounds						
2) Benzene-d6	7.22	84	71986m	0.989	µg/mL	0.00
Spiked Amount 1.000			Recovery	=	99.00%	
3) Toluene-d8	9.20	98	75555m	0.971	µg/mL	-0.02
Spiked Amount 1.000			Recovery	=	97.00%	
4) 1,4-Dichlorobenzene-d4	14.71	152	41892m	0.994	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	99.00%	
5) Phenanthrene-d10	28.78	188	128886m	1.004	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	100.00%	
6) Chrysene-d12	38.94	240	123311m	0.994	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	99.00%	
7) Benzo(a)pyrene-d12	44.62	264	90413m	1.183	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	118.00%	
8) Perylene-d12	44.97	264	93304m	0.975	µg/mL	-0.03
Spiked Amount 1.000			Recovery	=	98.00%	
Target Compounds						Qvalue
9) Benzene	7.26	78	85902m	1.053	µg/mL	
10) Toluene	9.28	91	104238	1.055	µg/mL	100
11) C1-Benzene	0.00	92	0	N.D.	d	
12) Ethylbenzene	11.37	91	133658m	0.950	µg/mL	
13) m/p-Xylenes	11.55	91	111440	0.907	µg/mL	99
14) Styrene	12.03	104	80338m	1.063	µg/mL	
15) o-Xylene	12.10	91	112321	0.970	µg/mL	99
16) C2-Benzenes	0.00	106	0	N.D.	d	
17) Isopropylbenzene	12.78	105	118981m	0.951	µg/mL	
18) n-Propylbenzene	13.42	91	163564	0.984	µg/mL	100
19) 1,3,5-Trimethylbenzene	13.74	105	119362m	0.965	µg/mL	
20) 1,2,4-Trimethylbenzene	14.31	105	120471m	0.949	µg/mL	
21) C3-Benzenes	0.00	120	0	N.D.		
22) t-Butylbenzene	0.00	119	0	N.D.	d	
23) sec-Butylbenzene	14.68	105	149958	0.982	µg/mL	99
24) p-Isopropyltoluene	14.95	119	119190m	0.994	µg/mL	
25) n-Butylbenzene	15.62	91	127424m	0.961	µg/mL	
26) C4-Benzenes	0.00	134	0	N.D.		
27) C5-Benzenes	0.00	148	0	N.D.		
28) trans-Decalin	0.00	138	0	N.D.		
29) cis-Decalin	0.00	138	0	N.D.		
30) Tetraethyl lead	0.00	237	0	N.D.		
31) Naphthalene	18.37	128	167935m	0.992	µg/mL	
32) 2-Methylnaphthalene	20.41	142	107877m	0.972	µg/mL	
33) 1-Methylnaphthalene	20.74	142	107693m	0.974	µg/mL	
34) C1-Naphthalenes	0.00	142	0	N.D.	d	
35) C2-Naphthalenes	0.00	156	0	N.D.		
36) C3-Naphthalenes	0.00	170	0	N.D.	d	
37) C4-Naphthalenes	0.00	184	0	N.D.		
38) Biphenyl	0.00	154	0	N.D.	d	
39) Acenaphthylene	23.22	152	134155	0.792	µg/mL	100
40) Acenaphthene	23.81	154	101478m	0.948	µg/mL	
41) Dibenzofuran	24.33	168	166986m	0.996	µg/mL	
42) Fluorene	25.49	166	134872m	0.984	µg/mL	
43) C1-Fluorenes	0.00	180	0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102109.D
Acq On : 21 Oct 2010 9:01 pm
Operator : CAM
Sample : A982
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 11:27:18 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 11:21:26 2010
Response via : Initial Calibration

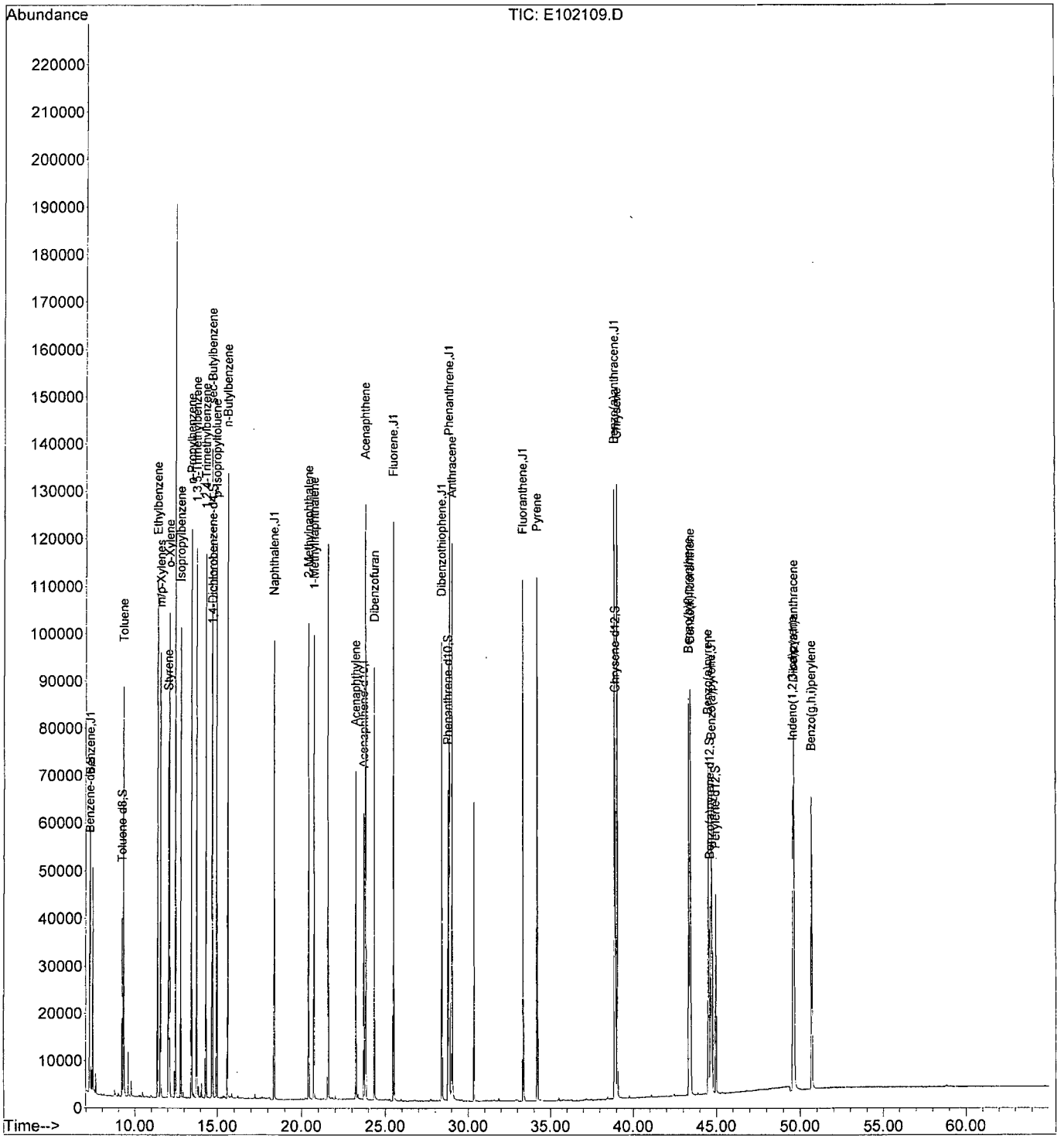
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) C2-Fluorenes	0.00	194	0	N.D.		
45) C3-Fluorenes	0.00	208	0	N.D.	d	
46) Phenanthrene	28.86	178	212083	1.020	µg/mL	100
47) Anthracene	29.02	178	190305m	0.976	µg/mL	
48) C1-Phenanthrenes/Anthracen	0.00	192	0	N.D.		
49) C2-Phenanthrenes/Anthracen	0.00	206	0	N.D.		
50) C2-P/A 5a-A Subtraction	0.00	206	0	N.D.		
51) C3-Phenanthrenes/Anthracen	0.00	220	0	N.D.		
52) Retene	0.00	234	0	N.D.		
53) C4-Phenanthrenes/Anthracen	0.00	234	0	N.D.		
54) Dibenzothiophene	28.41	184	197794	1.013	µg/mL	99
55) C1-Dibenzothiophenes	0.00	198	0	N.D.	d	
56) C1-DBT OTP Subtraction	0.00	198	0	N.D.	d	
57) C2-Dibenzothiophenes	0.00	212	0	N.D.		
58) C3-Dibenzothiophenes	0.00	226	0	N.D.		
59) C4-Dibenzothiophenes	0.00	240	0	N.D.		
60) Benzo(b)naphtho(2,1-d)thio	0.00	234	0	N.D.		
61) Fluoranthene	33.34	202	237071	1.004	µg/mL	99
62) Pyrene	34.20	202	240322	1.001	µg/mL	99
63) Benzo(b/c)fluorenes	0.00	216	0	N.D.		
64) 2-Methylpyrene	0.00	216	0	N.D.		
65) 4-Methylpyrene	0.00	216	0	N.D.		
66) 1-Methylpyrene	0.00	216	0	N.D.		
67) C1-Fluoranthenes/Pyrenes	0.00	216	0	N.D.		
68) C2-Fluoranthenes/Pyrenes	0.00	230	0	N.D.		
69) C3-Fluoranthenes/Pyrenes	0.00	244	0	N.D.		
70) Benzo(a)anthracene	38.87	228	221098	0.998	µg/mL	100
71) Chrysene	39.04	228	212120	1.009	µg/mL	100
72) C1-Benzo(a)anthracenes/Chr	0.00	242	0	N.D.		
73) C2-Benzo(a)anthracenes/Chr	0.00	256	0	N.D.		
74) C3-Benzo(a)anthracenes/Chr	0.00	270	0	N.D.		
75) C4-Benzo(a)anthracenes/Chr	0.00	284	0	N.D.		
76) Benzo(b)fluoranthene	43.35	252	218042	0.988	µg/mL	97
77) Benzo(k)fluoranthene	43.45	252	217009	1.000	µg/mL	97
78) Benzo(e)pyrene	44.51	252	194999	0.970	µg/mL	98
79) Benzo(a)pyrene	44.72	252	174135	0.898	µg/mL	98
80) Perylene	0.00	252	0	N.D.	d	
81) Indeno(1,2,3-cd)pyrene	49.59	276	175525m	0.922	µg/mL	
82) Dibenz(a,h)anthracene	49.66	278	176243	1.008	µg/mL#	66
83) Benzo(g,h,i)perylene	50.71	276	184553	0.977	µg/mL	98
84) Coronene	0.00	300	0	N.D.	d	
85) Heptadecane	0.00	85	0	N.D.	d	
86) Pristane	0.00	85	0	N.D.		
87) Octadecane	0.00	85	0	N.D.	d	
88) Phytane	0.00	85	0	N.D.	d	
89) 2,6,10-trimethyldodecane	0.00	85	0	N.D.	d	
90) 2,6,10-trimethyltridecane	0.00	85	0	N.D.	d	
91) Norpristane	0.00	85	0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : J:\1\DATA\E101021\
Data File : E102109.D
Acq On : 21 Oct 2010 9:01 pm
Operator : CAM
Sample : A982
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 22 11:27:18 2010
Quant Method : J:\1\METHODS\E101021.M
Quant Title : Hydrocarbon Fingerprinting - MS Calibration
QLast Update : Fri Oct 22 11:21:26 2010
Response via : Initial Calibration



Appendix E

Miscellaneous Documentation

META Environmental, Inc.

Method Name: EPA 3570 Analysis: TEL
Method SOP#: MET2508
Matrix: Soil
Concentration termperature: 70°C
Extraction Staff: RPR
Extract Tray: W12
Concentration Staff: RPR

Sample ID	Weight Extracted (g)	Surrogate Spike	Matrix Spike	Date Extracted	Time Started	Time Stopped	Date Concentration	Final Volume (mL)	Internal Standard	Notes
QC101020-SB	—	500uL	N/A	10/20/10	18:30	10:00	10/21/10	2mL	50uL	
QC101020-SBS	—		250uL							
AE101015-01	4.269		N/A							WATER layer decanted from sample prior to extraction
02	4.158									
03	4.012									
04	4.142									
05	4.242									
06	4.162									
07	4.065									
07MS	4.084									
07MSD	4.280									
08	4.183									
09	4.171									
10	4.072									
11	4.062									
12	4.183									
13	4.653									
14	4.211									
15	4.091									
16	4.230									
18	4.043									
21	4.345									
					RPR	10/20/10				

NOTES/COMMENTS:

4007/4008	Surr. @	µg/mL	Std. ID: A100413-d	Analyst: RPR
TEL	Spike @	µg/mL	Std. ID: A090923-02A	Analyst: RPR
4007/4008	IS @	µg/mL	Std. ID: A110910-1B2	Analyst: RPR
4007/4008	IS @	µg/mL	Std. ID: A110910-1B3	Analyst: RPR

Extracts Released (Date & Inits): 10/21/10 for RPR

QA Reviewed (Date Inits.): 11/3/10

META Environmental, Inc.

Method Name: EPA 3570 Analysis: TEL
Method SOP#: MET2508
Matrix: Soil

Concentration termperature: 70°C
Extraction Staff: RPR

Extract Tray: ~~BIEN~~ WR
Concentration Staff: RPR 10/29/10

Sample ID	Weight Extracted (g)	Surrogate Spike	Matrix Spike	Date Extracted	Time Started	Time Stopped	Date Concentration	Final Volume (mL)	Internal Standard	Notes
QL101020-SB1	—	500uL	N/A	10/20/10	18:30	10:00	10/21/10	2mL	50uL	
QL101020-SBS1	—		25uL				N/A	N/A	N/A	Extract column broke
AE101015-17	4.269		N/A				10/21/10		50uL	Water decanted from top
-17MS	4.144									
-17MSD	4.134									
-22	4.021									
-23	4.010									
-24	4.085									
-25	4.242									
-26	4.111									
-27	4.036									
~~AE101014-01~~	~~4.3159~~									
-02	4.264									
-03	4.344									Water decanted from top
-04	4.111									

RPR 10/20/10

NOTES/COMMENTS:

4007/4008 Surr. @	µg/mL	Std. ID: A100913-01	Analyst: RPR
TEL Spike @	µg/mL	Std. ID: A091023.02A	Analyst: RPR
4007/4008 IS @	µg/mL	Std. ID: A100910-01 B2	Analyst: RPR
4007/4008 IS @	µg/mL	Std. ID: A100110-01 B3	Analyst: RPR

Extracts Released (Date & Inits): 10/21/10 for RPR

QA Reviewed (Date Inits.): 11/3/10

META Environmental, Inc.

Method Name: **EPA 3511 - Microscale Solvent Extraction of Organics from Water**
Method SOP#: **2005**
Matrix: **Water** Extraction Staff: CAM Concentration Staff: [illegible]
Extract Tray: 1 RA Glass

Sample ID	Sample & Vial Weight (g)	Empty Vial Weight (g)	Volume Extracted (mL)	Surrogate	Matrix Spike	Extraction Date	FinalVolume (mL)	Internal Standard	Comments
QC101020-AB	-	-	-	500 µL	N/A	10/20/10	1.5	37.5	pH 5
QC101020-ABS	-	-	-		25 µL		1.5	37.5	↓
[redacted]	61.762	24.915	36.847		N/A		1.0	25.0	pH 4
-01DUP	61.874	24.726	37.148				1.0	25.0	↓
-02	59.974	22.384	37.59						pH 6
-03	58.672	22.160	36.512				1.0	25.0	pH 3
-04	61.880	25.590	36.29				1.0	25.0	pH 6
-05	60.568	24.623	35.945				1.0	25.0	↓
-06	59.797	24.322	35.475				1.5	37.5	pH 5
AE101015-19	60.612	24.105	36.507	↓	↓	↓			pH 5
CAM ~~-19DUP~~									
-20	60.768	23.942	36.826	500 µL	N/A	10/20/10	1.5	37.5	pH 5
-20 MS	58.775	21.712	37.063		25 µL		1.5	37.5	
-20 MSD	59.966	23.839	36.127	↓	↓	↓	1.5	37.5	

NOTES/COMMENTS:

4007/4008 Surr. @ µg/mL Std. ID: A103113-01 B-1 Analyst: CAM
TEL 4007/4008 Spike @ µg/mL Std. ID: [illegible] Analyst: CAM
4007/4008 IS @ µg/mL Std. ID: A100110-01 B Analyst: [illegible]
IS @ µg/mL Std. ID: Analyst:

Extracts Released (Date & Inits): [illegible] 10/21/10

QA Reviewed (Date Inits.): [illegible] 11/3/10

META Environmental, Inc.

Percent Solids & Percent Moisture Log

Sample ID	Wet Weights (g) Pan	Wet Weights (g) Sample & Pan	Dry Weight (g) Sample & Pan	% Solids	% Moisture	Wet Weights - Date & Inits.	Dry Weights - Date & Inits.	Values Entered - Date & Inits
AE101015-01	1.174	10.428	8.969	84.2	15.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-02	1.172	10.676	9.165	84.1	15.9	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-03	1.185	10.609	9.272	85.8	14.2	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-04	1.157	10.342	9.019	85.6	14.4	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-05	1.156	10.838	9.428	85.4	14.6	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-06	1.180	10.261	9.081	87.0	13.0	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-07	1.177	10.126	8.806	85.2	14.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-08	1.166	10.535	9.250	86.3	13.7	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-09	1.192	10.317	8.988	85.4	14.6	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-10	1.168	10.343	9.173	87.2	12.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-11	1.178	10.701	9.404	86.4	13.6	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-12	1.165	10.804	9.268	84.1	15.9	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-13	1.166	10.537	8.782	81.3	18.7	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-14	1.160	10.547	8.971	83.2	16.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-15	1.164	10.708	8.879	80.8	19.2	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-16	1.183	10.518	8.458	77.9	22.1	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-17	1.151	10.625	9.129	84.2	15.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-18	1.166	10.513	8.979	83.6	16.4	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-21	1.150	10.812	9.347	84.8	15.2	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-22	1.186	10.445	9.006	84.5	15.5	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-23	1.153	10.540	9.130	85.0	15.0	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-24	1.187	10.626	8.899	81.7	18.3	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-25	1.167	10.561	8.382	76.8	23.2	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-26	1.153	10.316	8.916	84.7	15.3	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101015-27	1.185	10.303	8.205	77.0	23.0	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101019-01	1.166	10.165	8.316	79.5	20.5	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101019-02	1.179	10.638	8.952	82.2	17.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101019-03	1.158	10.647	9.056	83.2	16.8	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP
AE101019-04	1.187	10.345	8.796	83.1	16.9	10/20/2010 RPR	10/21/2010 JMP	10/21/2010 JMP

Report by:
11/1/2010

Reviewed by:
Date: 11/3/10

CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421

www.capefearanalytical.com

November 05, 2010

Ms. Tammy McCloskey
Accutest Laboratories
Fresh Ponds Corporate Village, Bldg B
2235 Route 130
Dayton, New Jersey 08810

Re: HRMS Subcontract
Work Order: 1741
SDG: JA58750

Dear Ms. McCloskey:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 15, 2010. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421 Ext. 0422.

Sincerely,

Chris Cornwell
Project Manager

Enclosures

problem solved

CHAIN OF CUSTODY

ACCUTEST®

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
908-329-0200 FAX: 908-329-3499/3480

Accutest Job #: JA58750
Accutest Quote #:

Client Information

Name: Accutest
Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Send Report to: Tammy McCloskey
Phone #: (732) 329-0200 x364

Facility Information

Project Name: BBNPP, PA
Location:
Project No.: JA58750
FAX #: (732) 329-3499

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	2,2,7,8 TCDD Dioxin via 8290
-1	10/12/10	10:26	MH	Soil							X
2	10/12/10	11:10	MH	Soil							X
3	10/12/10	12:02	MH	Soil							X
4	10/12/10	12:40	MH	Soil							X
5	10/12/10	14:23	MH	Soil							X
6	10/12/10	14:23	MH	Soil							X
7	10/12/10	14:51	MH	Soil							X
8	10/12/10	15:49	MH	Soil							X
9	10/12/10	16:11	MH	Soil							X
10	10/12/10	16:29	MH	Soil							X

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [X] Other 21 (Days)

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] State Forms

Comments / Remarks

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/14/10 1700	1 [illegible]	2 Fed Ex	10/15/10 09:40	2 Cynde Larkins
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal # 542	Preserved where applicable ☐	On Ice ☒ 0.3°

~~WO#1738~~ CR 10/15/10

WO#1741

CHAIN OF CUSTODY

ACCUTEST
Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
908-329-0200 FAX: 908-329-3499/3480

Accutest Job #: JA58750
Accutest Quote #:

Client Information

Name: Accutest
Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Send Report to: Tammy McCloskey
Phone #: (732) 329-0200

Facility Information

Project Name: BBNPP, PA
Location:
Project No.: JA58750
FAX #: (732) 329-3499

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	2,2,7,8 TCDD Dioxin via 8290
11, 11D, 11S	10/13/10	8:25	MH	Soil							X
12	10/13/10	8:55	MH	Soil							X
13	10/13/10	9:25	MH	Soil							X
14	10/13/10	10:01	MH	Soil							X
15	10/13/10	10:25	MH	Soil							x
16	10/13/10	11:15	MH	Soil							x
17	10/13/10	11:58	MH	Soil							x
18	10/13/10	11:15	MH	Soil							x

Turnaround Information

- [ ] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days *EMERGENCY*
- [x] Other 21 (Days)

21 Day Turnaround Hardcopy, Emergency or RUSH is FAX Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [x] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] State Forms

Comments / Remarks

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/14/10 2 7pm	1 Fed X	2 Fed Ex	10/15/10 09:40	2 Cynde Larkins
3		3	4		4
5		5	Seal # 542	Preserved where applicable ☐	On Ice ☒ 0.3°

~~WO #1738~~ WO#1741
CL 10/15/10

SAMPLE RECEIPT CHECKLIST
Cape Fear Analytical

Client: Accutest	Work Order: ~~1738~~ 1741 CL 10/15/10
Received By: Cynde Larkins CFA	Date/Time Received: 10/15/10 09:40

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Chain of Custody documents included with shipment?	✓			
3	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: ice bags blue ice dry ice none other (describe) 0.3°
4	Samples requiring chemical preservation at proper pH?		✓		Sample IDs, containers affected and pH observed: If preservative added, Lot#:
5	Samples requiring preservation have no residual chlorine?		✓		Sample IDs, containers affected: If preservative added, Lot#:
6	Samples received within holding time?	✓			Sample IDs, tests affected:
7	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
8	Date & time of COC match date & time on containers?			✓	Sample IDs, containers affected: sample collection times not noted on containers
9	Number of containers received match number indicated on COC?	✓			Sample IDs, containers affected:
10	COC form is properly signed in relinquished/received sections?	✓			

Comments:
Sample containers JA58750-6 Bot #5 and JA58750-13 Bot #5 arrived broken. Sample contents were transferred immediately and PM notified.

Checklist performed by: Initials: CL Date: 10/15/10

High Resolution Dioxin and Furan Analysis

Case Narrative

HDOX Case Narrative
Accutest Laboratories (ACCU)
SDG JA58750

Method/Analysis Information

Product: **TCDD only by SW846 Method 8290A in Solids**
Analytical Method: SW846 8290A
Extraction Method: SW846 3540C
Analytical Batch Number: 17153
Clean Up Batch Number: 17094
Extraction Batch Number: 16633

Sample Analysis

The following samples were analyzed using the analytical protocol as established in Method 8290A:

Sample ID	Client ID
1741001	JA58750-1
1741001	JA58750-1
1741002	JA58750-2
1741002	JA58750-2
1741003	JA58750-3
1741003	JA58750-3
1741004	JA58750-4
1741004	JA58750-4
1741005	JA58750-5
1741005	JA58750-5
1741006	JA58750-6
1741006	JA58750-6
1741007	JA58750-7
1741007	JA58750-7
1741008	JA58750-8
1741008	JA58750-8
1741009	JA58750-9
1741009	JA58750-9
1741010	JA58750-10
1741010	JA58750-10
1741011	JA58750-11
1741011	JA58750-11

1741012	JA58750-12
1741012	JA58750-12
1741013	JA58750-13
1741013	JA58750-13
1741014	JA58750-14
1741014	JA58750-14
1741015	JA58750-15
1741015	JA58750-15
1741016	JA58750-16
1741016	JA58750-16
1741017	JA58750-17
1741017	JA58750-17
1741018	JA58750-18
1741018	JA58750-18
12002000	1728001(102-0151) Sample Duplicate (DUP)
12002001	Laboratory Control Sample (LCS)
12002002	Laboratory Control Sample Duplicate (LCSD)
12002003	Method Blank (MB)
12002004	1741011(JA58750-11) Matrix Spike (MS)
12002005	1741011(JA58750-11) Matrix Spike Duplicate (MSD)

Samples 1741 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017 and 018 in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 7.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2003 NELAC Standard.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
Sample 1741011 (JA58750-11) was designated for MS/MSD analysis.

Matrix Spike (MS) Recovery Statement
The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement
The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement
The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation
A NCR was not required for this SDG.

Manual Integrations
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction.

Sample preparation
No difficulties were encountered during sample preparation.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Waters Autospec Premier high-resolution GC/MS system	Waters Autospec Prem	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Certificate of Analysis Report
for

ACCU001 Accutest Laboratories

Client SDG: JA58750 CFA Work Order: 1741

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Heather Patterson **Name: Heather Patterson**

Date: 05 NOV 2010 **Title: Analyst III**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741001	**Date Collected:**	10/12/2010 10:26	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.5
Client ID:	JA58750-1			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 08:15	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-8			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.54 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.143	pg/g	0.143	0.929

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		141	186	pg/g	75.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741002	**Date Collected:**	10/12/2010 11:10	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	21.8
Client ID:	JA58750-2			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 09:01	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-9			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.18 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.145	pg/g	0.145	0.971

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		148	194	pg/g	76.5	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741003	**Date Collected:**	10/12/2010 12:02	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	21.9
Client ID:	JA58750-3			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 09:47	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-10			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.94 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.121	pg/g	0.121	0.990

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		138	198	pg/g	69.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741004	**Date Collected:**	10/12/2010 12:40	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	23.3
Client ID:	JA58750-4			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 10:33	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-11			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.54 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.163	pg/g	0.163	0.963

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		*138*	*193*	pg/g	*71.9*	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741005	**Date Collected:**	10/12/2010 14:23	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.5
Client ID:	JA58750-5			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 11:19	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-12			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.85 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.152	pg/g	0.152	0.979

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		146	196	pg/g	74.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741006**	**Date Collected:**	**10/12/2010 14:23**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**14.1**
Client ID:	**JA58750-6**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/28/2010 12:06**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b26oct10a_4-13**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**11.86 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.163	pg/g	0.163	0.982

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		141	196	pg/g	71.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741007**	**Date Collected:**	**10/12/2010 14:51**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**22.9**
Client ID:	**JA58750-7**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/29/2010 19:04**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-3**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.2 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.171	pg/g	0.171	0.983

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		130	197	pg/g	66.3	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741008	**Date Collected:**	10/12/2010 15:49	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	18.9
Client ID:	JA58750-8			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 19:50	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-4			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.96 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.144	pg/g	0.144	0.952

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		139	190	pg/g	73.0	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741009	**Date Collected:**	10/12/2010 16:11	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20
Client ID:	JA58750-9			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 20:36	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-5			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.11 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.124	pg/g	0.124	0.953

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		133	191	pg/g	69.7	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741010	**Date Collected:**	10/12/2010 16:29	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	22.4
Client ID:	JA58750-10			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 21:22	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-6			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.84 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.188	pg/g	0.188	0.932

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		136	186	pg/g	73.2	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741011**	**Date Collected:**	**10/13/2010 08:25**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD MS/MSD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.6**
Client ID:	**JA58750-11**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/29/2010 22:08**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-7**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.3 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.123	pg/g	0.123	0.947

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		128	189	pg/g	67.5	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741012**	**Date Collected:**	**10/13/2010 08:55**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.7**
Client ID:	**JA58750-12**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/30/2010 00:26**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-10**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.1 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.153	pg/g	0.153	0.963

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		131	193	pg/g	68.0	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741013	**Date Collected:**	10/13/2010 09:25	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	11.3
Client ID:	JA58750-13			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 01:12	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-11			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.08 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.132	pg/g	0.132	0.934

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		134	187	pg/g	71.8	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741014**	**Date Collected:**	**10/13/2010 10:01**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**21.9**
Client ID:	**JA58750-14**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/30/2010 01:58**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-12**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.25 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.122	pg/g	0.122	0.966

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		126	193	pg/g	65.2	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741015	**Date Collected:**	10/13/2010 10:25	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	22.3
Client ID:	JA58750-15			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 02:44	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-13			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.25 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.12	pg/g	0.120	0.903

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		124	181	pg/g	68.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741016	**Date Collected:**	10/13/2010 11:15	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	28
Client ID:	JA58750-16			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 03:30	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-14			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.72 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.137	pg/g	0.137	0.943

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		145	189	pg/g	76.9	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741017	**Date Collected:**	10/13/2010 11:58	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	28.7
Client ID:	JA58750-17			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	11/04/2010 00:01	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b03nov10a_2-11			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.71 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.0776	pg/g	0.0776	0.954

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		135	191	pg/g	70.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741018**	**Date Collected:**	**10/13/2010 11:15**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.1**
Client ID:	**JA58750-18**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**11/04/2010 00:49**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b03nov10a_2-12**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**12.6 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.0496	pg/g	0.0496	0.993

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		157	199	pg/g	79.1	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quality Control Summary

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: JA58750
Client ID: LCS for batch 16633
Lab Sample ID: 12002001
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample
Matrix: SOIL
Analysis Date: 10/28/2010 05:57
Dilution: 1
Prep Batch ID: 16633
Batch ID: 17153

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	20.0	22.8	114	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: JA58750
Client ID: LCSD for batch 16633
Lab Sample ID: 12002002
Instrument: HRP763
Analyst: MJC

Sample Type: Laboratory Control Sample Duplicate
Matrix: SOIL
Analysis Date: 10/28/2010 06:43
Dilution: 1
Prep Batch ID: 16633
Batch ID: 17153

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	20.0	23.3	117	70-130	2.18	0-20

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number:	**JA58750**	**Sample Type:**	**Matrix Spike**	
Client ID:	**JA58750-11(1741011MS)**	**Matrix:**	**Soil**	
Lab Sample ID:	**12002004**	**%Moisture:**	**20.6**	
Instrument:	**HRP763**	**Analysis Date:**	**10/29/2010 22:54**	**Dilution: 1**
Analyst:	**MJC**	**Prep Batch ID:**	**16633**	
		Batch ID:	**17153**	

CAS No.		Parmname	Amount Added pg/g		Spike Conc. pg/g	Recovery %	Acceptance Limits
1746-01-6	MS	2,3,7,8-TCDD	19.5	U	22.4	115	70-130

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number:	**JA58750**	**Sample Type:**	**Matrix Spike Duplicate**	
Client ID:	**JA58750-11(1741011MSD)**	**Matrix:**	**Soil**	
Lab Sample ID:	**12002005**	**%Moisture:**	**20.6**	
Instrument:	**HRP763**	**Analysis Date:**	**10/29/2010 23:40**	**Dilution: 1**
Analyst:	**MJC**	**Prep Batch ID:**	**16633**	
		Batch ID:	**17153**	

CAS No.		Parmname	Amount Added pg/g		Spike Conc. pg/g	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	MSD	2,3,7,8-TCDD	19.6	U	22.3	114	70-130	0.603	0-20

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: JA58750

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12002001	LCS for batch 16633	13C-2,3,7,8-TCDD		70.9	(40%-135%)
12002002	LCSD for batch 16633	13C-2,3,7,8-TCDD		65.9	(40%-135%)
12002003	MB for batch 16633	13C-2,3,7,8-TCDD		68.6	(40%-135%)
1741001	JA58750-1	13C-2,3,7,8-TCDD		75.7	(40%-135%)
1741002	JA58750-2	13C-2,3,7,8-TCDD		76.5	(40%-135%)
1741003	JA58750-3	13C-2,3,7,8-TCDD		69.7	(40%-135%)
1741004	JA58750-4	13C-2,3,7,8-TCDD		71.9	(40%-135%)
1741005	JA58750-5	13C-2,3,7,8-TCDD		74.7	(40%-135%)
1741006	JA58750-6	13C-2,3,7,8-TCDD		71.9	(40%-135%)
1741007	JA58750-7	13C-2,3,7,8-TCDD		66.3	(40%-135%)
1741008	JA58750-8	13C-2,3,7,8-TCDD		73.0	(40%-135%)
1741009	JA58750-9	13C-2,3,7,8-TCDD		69.7	(40%-135%)
1741010	JA58750-10	13C-2,3,7,8-TCDD		73.2	(40%-135%)
1741011	JA58750-11	13C-2,3,7,8-TCDD		67.5	(40%-135%)
12002004	JA58750-11(1741011MS)	13C-2,3,7,8-TCDD		68.9	(40%-135%)
12002005	JA58750-11(1741011MSD)	13C-2,3,7,8-TCDD		71.0	(40%-135%)
1741012	JA58750-12	13C-2,3,7,8-TCDD		68.0	(40%-135%)
1741013	JA58750-13	13C-2,3,7,8-TCDD		71.8	(40%-135%)
1741014	JA58750-14	13C-2,3,7,8-TCDD		65.2	(40%-135%)
1741015	JA58750-15	13C-2,3,7,8-TCDD		68.7	(40%-135%)
		13C-2,3,7,8-TCDD		76.9	(40%-135%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: JA58750

Matrix Type: SOLID

Sample ID	Client ID	Surrogate	Recovery (%)	Acceptance Limits
1741016	JA58750-16			
1741017	JA58750-17	13C-2,3,7,8-TCDD	70.9	(40%-135%)
1741018	JA58750-18	13C-2,3,7,8-TCDD	79.1	(40%-135%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Method Blank Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Matrix:**	**SOIL**
Client ID:	**MB for batch 16633**	**Instrument ID:**	**HRP763**	**Data File:**	**b26oct10a_4-7**
Lab Sample ID:	**12002003**	**Prep Date:**	**28-OCT-10**	**Analyzed:**	**10/28/10 07:29**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 16633	12002001	b26oct10a_4-5	10/28/10	0557
02	LCSD for batch 16633	12002002	b26oct10a_4-6	10/28/10	0643
03	JA58750-1	1741001	b26oct10a_4-8	10/28/10	0815
04	JA58750-2	1741002	b26oct10a_4-9	10/28/10	0901
05	JA58750-3	1741003	b26oct10a_4-10	10/28/10	0947
06	JA58750-4	1741004	b26oct10a_4-11	10/28/10	1033
07	JA58750-5	1741005	b26oct10a_4-12	10/28/10	1119
08	JA58750-6	1741006	b26oct10a_4-13	10/28/10	1206
09	JA58750-7	1741007	b29oct10a-3	10/29/10	1904
10	JA58750-8	1741008	b29oct10a-4	10/29/10	1950
11	JA58750-9	1741009	b29oct10a-5	10/29/10	2036
12	JA58750-10	1741010	b29oct10a-6	10/29/10	2122
13	JA58750-11	1741011	b29oct10a-7	10/29/10	2208
14	JA58750-11(1741011MS)	12002004	b29oct10a-8	10/29/10	2254
15	JA58750-11(1741011MSD)	12002005	b29oct10a-9	10/29/10	2340
16	JA58750-12	1741012	b29oct10a-10	10/30/10	0026
17	JA58750-13	1741013	b29oct10a-11	10/30/10	0112
18	JA58750-14	1741014	b29oct10a-12	10/30/10	0158
19	JA58750-15	1741015	b29oct10a-13	10/30/10	0244
20	JA58750-16	1741016	b29oct10a-14	10/30/10	0330
21	JA58750-17	1741017	b03nov10a_2-11	11/04/10	0001
22	JA58750-18	1741018	b03nov10a_2-12	11/04/10	0049

Sample Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741001	**Date Collected:**	10/12/2010 10:26	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.5
Client ID:	JA58750-1			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 08:15	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-8			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.54 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.143	pg/g	0.143	0.929

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		141	186	pg/g	75.7	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:36:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:37:03 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-8, Date: 28-Oct-2010, Time: 08:15:56, ID: 1741001-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0767		767			870		
2	12378-PeCDD	1.31e2	1.06e2	2.37e2	33.22	1.001	1.24	YES	0.038	0.0686	2.29e3	1389	1.6	2.34e3	1827	1.3	bb
3	123478-HxCDD	2.64e2	2.34e2	4.99e2	35.64	1.000	1.13	NO	0.097	0.111	5.98e3	943	6.3	5.93e3	3069	1.9	bb
4	123678-HxCDD							NO		0.0947		943			3069		
5	123789-HxCDD	1.83e2	1.05e2	2.88e2	35.86	1.006	1.75	YES	0.052	0.104	3.91e3	943	4.1	3.55e3	3069	1.2	db
6	1234678-HpCDD	3.18e3	2.95e3	6.13e3	38.55	1.000	1.08	NO	1.200	0.0826	4.97e4	1187	41.9	4.76e4	927	51.4	bb
7	OCDD	7.32e4	8.09e4	1.54e5	42.21	1.000	0.91	NO	39.006	0.161	8.67e5	1322	655.4	9.82e5	1237	793.5	bd
8	2378-TCDF	1.65e3	2.07e3	3.71e3	28.47	1.001	0.80	NO	0.332	0.0887	1.85e4	1663	11.1	2.09e4	1859	11.2	db
9	12378-PeCDF	2.62e2	2.45e2	5.07e2	32.43	1.000	1.07	YES	0.058	0.0359	9.42e3	1139	8.3	5.64e3	1432	3.9	bb
10	23478-PeCDF	3.63e2	2.67e2	6.31e2	33.01	1.018	1.36	NO	0.071	0.0355	8.64e3	1139	7.6	5.93e3	1432	4.1	db
11	123478-HxCDF	1.71e2	1.46e2	3.17e2	34.91	0.997	1.18	NO	0.044	0.0390	4.27e3	1138	3.7	5.55e3	801	6.9	db
12	123678-HxCDF							NO		0.0314		1138			801		
13	234678-HxCDF	1.93e2	1.97e2	3.90e2	35.47	1.013	0.98	YES	0.049	0.0350	5.04e3	1138	4.4	4.76e3	801	5.9	bb
14	123789-HxCDF							NO		0.0432		1138			801		
15	1234678-HpCDF	1.21e3	9.88e2	2.20e3	37.45	1.001	1.23	YES	0.266	0.0292	2.10e4	641	32.7	1.83e4	781	23.4	bb
16	1234789-HpCDF							NO		0.0384		641			781		
17	OCDF	9.47e2	1.24e3	2.19e3	42.46	1.006	0.76	NO	0.454	0.0526	1.74e4	491	35.4	1.49e4	528	28.1	bb
18	13C-2378-TCDD	2.89e5	3.62e5	6.51e5	29.35	1.025	0.80	NO	75.710	0.104	3.07e6	2094	1466.7	3.90e6	1217	3203.4	bb
19	13C-12378-PeCDD	3.81e5	2.42e5	6.23e5	33.18	1.158	1.57	NO	96.433	0.215	8.66e6	2879	3008.8	5.62e6	2258	2489.3	bb
20	13C-123678-HxCDD	3.68e5	2.91e5	6.59e5	35.64	0.994	1.27	NO	81.553	0.108	7.74e6	3061	2528.1	5.96e6	2320	2569.6	bb
21	13C-1234678-HpCDD	2.71e5	2.47e5	5.18e5	38.54	1.075	1.09	NO	93.068	0.163	4.07e6	2764	1472.8	3.86e6	2839	1358.0	bd
22	13C-OCDD	3.78e5	4.27e5	8.05e5	42.20	1.177	0.89	NO	165.854	0.210	4.57e6	3733	1223.0	5.05e6	2557	1973.2	bb
23	13C-2378-TCDF	5.30e5	6.63e5	1.19e6	28.43	0.993	0.80	NO	89.127	0.0769	5.64e6	1674	3370.2	7.06e6	2132	3309.6	bb
24	13C-12378-PeCDF	6.10e5	3.77e5	9.87e5	32.42	1.132	1.62	NO	89.937	0.154	1.49e7	3865	3867.6	9.72e6	2407	4037.2	bd
25	13C-123678-HxCDF	2.93e5	5.59e5	8.53e5	35.00	0.977	0.52	NO	78.360	0.0895	6.07e6	2540	2391.5	1.17e7	3467	3386.0	bb
26	13C-1234678-HpCDF	2.04e5	4.51e5	6.55e5	37.43	1.044	0.45	NO	92.203	0.123	3.60e6	2804	1285.5	7.79e6	2601	2997.3	bd
27	13C-1234-TCDD	3.46e5	4.30e5	7.76e5	28.64	0.000	0.81	NO	100.000	0.115	3.84e6	2094	1835.0	4.57e6	1217	3756.9	bb
28	13C-123789-HxCDD	4.13e5	3.26e5	7.38e5	35.84	0.000	1.27	NO	100.000	0.118	7.63e6	3061	2493.9	6.01e6	2320	2588.9	bb
29	37Cl-2378-TCDD (SS)									0.0295		695					
30	13C-23478-PeCDF (SS)							NO		0.0821		3865			2407		

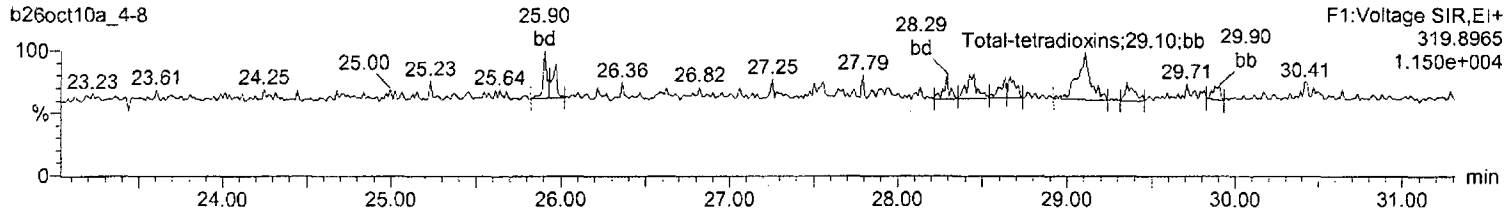
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

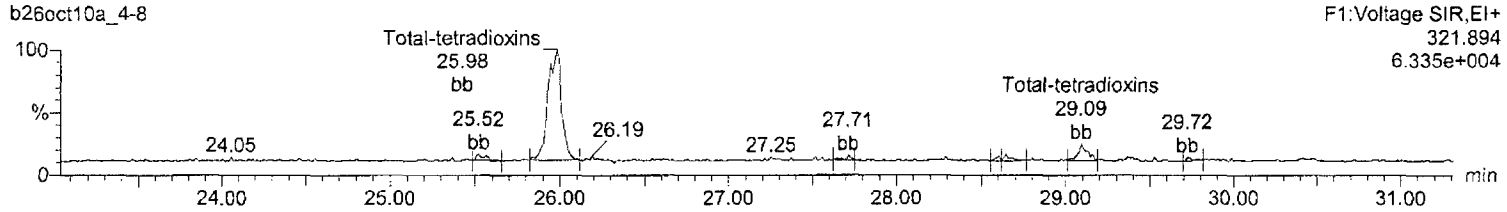
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-8, Date: 28-Oct-2010, Time: 08:15:56, ID: 1741001-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

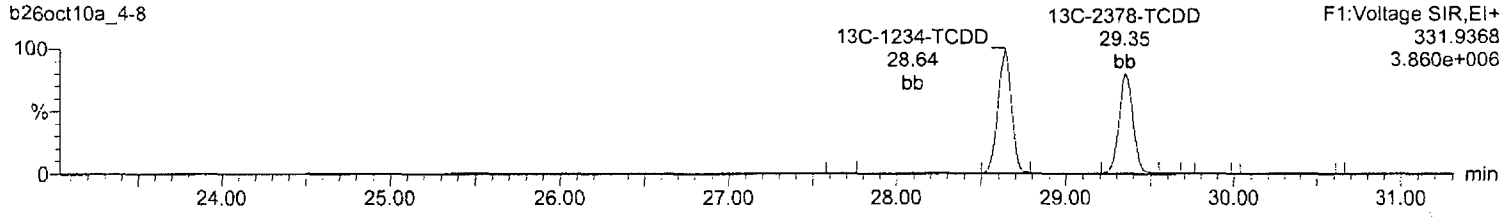
Total-tetradioxins



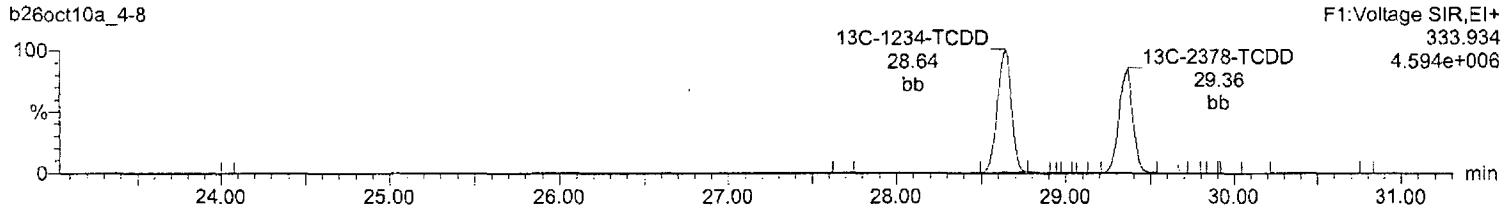
Total-tetradioxins



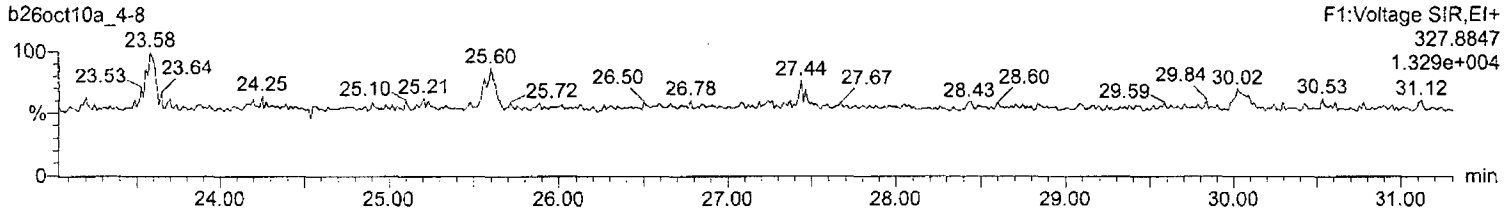
13C-2378-TCDD



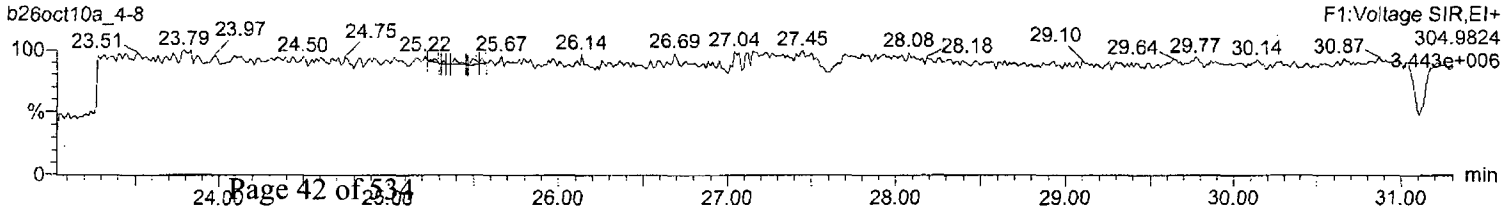
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741002	**Date Collected:**	10/12/2010 11:10	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	21.8
Client ID:	JA58750-2			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 09:01	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-9			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.18 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.145	pg/g	0.145	0.971

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		148	194	pg/g	76.5	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:37:31 Eastern Standard Time
Printed: Friday, October 29, 2010 15:37:45 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-9, Date: 28-Oct-2010, Time: 09:01:57, ID: 1741002-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0745		694			817		
2	12378-PeCDD							NO		0.0430		910			856		
3	123478-HxCDD							NO		0.0464		560			632		
4	123678-HxCDD							NO		0.0396		560			632		
5	123789-HxCDD							NO		0.0435		560			632		
6	1234678-HpCDD	1.89e2	2.39e2	4.28e2	38.53	1.000	0.79	YES	0.101	0.0473	3.39e3	477	7.1	5.43e3	596	9.1	bb
7	OCDD	3.43e3	4.05e3	7.48e3	42.20	1.000	0.85	NO	2.188	0.0726	4.77e4	512	93.2	5.35e4	506	105.7	bb
8	2378-TCDF	1.02e3	1.34e3	2.37e3	28.45	1.001	0.76	NO	0.223	0.0433	1.10e4	724	15.2	1.29e4	932	13.8	db
9	12378-PeCDF							NO		0.0270		787			984		
10	23478-PeCDF	1.11e2	9.91e1	2.10e2	33.01	1.018	1.12	YES	0.027	0.0267	4.69e3	787	6.0	2.65e3	984	2.7	bb
11	123478-HxCDF							NO		0.0306		598			544		
12	123678-HxCDF							NO		0.0247		598			544		
13	234678-HxCDF							NO		0.0275		598			544		
14	123789-HxCDF							NO		0.0339		598			544		
15	1234678-HpCDF							NO		0.0246		481			464		
16	1234789-HpCDF							NO		0.0324		481			464		
17	OCDF	6.89e1	9.69e1	1.66e2	42.46	1.006	0.71	YES	0.040	0.0805	2.56e3	459	5.6	2.57e3	917	2.8	bb
18	13C-2378-TCDD	2.83e5	3.61e5	6.45e5	29.35	1.025	0.78	NO	76.484	0.127	2.89e6	2131	1356.6	3.79e6	1739	2177.2	bb
19	13C-12378-PeCDD	3.20e5	2.03e5	5.23e5	33.17	1.159	1.57	NO	82.537	0.105	7.60e6	1565	4854.4	4.85e6	845	5738.9	bb
20	13C-123678-HxCDD	2.73e5	2.16e5	4.89e5	35.63	0.994	1.27	NO	81.909	0.125	5.50e6	2274	2418.1	4.34e6	2400	1808.2	bb
21	13C-1234678-HpCDD	2.22e5	2.09e5	4.31e5	38.53	1.075	1.06	NO	104.725	0.205	3.56e6	2379	1495.2	3.37e6	2911	1159.5	bb
22	13C-OCDD	3.30e5	3.67e5	6.97e5	42.18	1.177	0.90	NO	194.138	0.245	4.06e6	3032	1339.2	4.39e6	2474	1773.0	bb
23	13C-2378-TCDF	5.01e5	6.30e5	1.13e6	28.42	0.993	0.80	NO	86.173	0.0618	5.41e6	1631	3319.7	6.84e6	1312	5215.0	bb
24	13C-12378-PeCDF	5.31e5	3.25e5	8.56e5	32.41	1.132	1.63	NO	79.448	0.121	1.37e7	2865	4798.8	8.66e6	1855	4665.2	bd
25	13C-123678-HxCDF	2.32e5	4.38e5	6.70e5	34.98	0.976	0.53	NO	83.258	0.125	4.58e6	2421	1892.5	8.87e6	3860	2298.8	bb
26	13C-1234678-HpCDF	1.62e5	3.56e5	5.18e5	37.42	1.044	0.45	NO	98.585	0.105	2.84e6	1750	1623.8	6.21e6	1714	3620.4	bd
27	13C-1234-TCDD	3.34e5	4.28e5	7.61e5	28.63	0.000	0.78	NO	100.000	0.140	3.63e6	2131	1702.9	4.74e6	1739	2727.2	bb
28	13C-123789-HxCDD	3.03e5	2.43e5	5.46e5	35.83	0.000	1.25	NO	100.000	0.137	5.70e6	2274	2508.0	4.67e6	2400	1946.9	bb
29	37Cl-2378-TCDD (SS)									0.0299		670					
30	13C-23478-PeCDF (SS)							NO		0.0674		2865			1855		

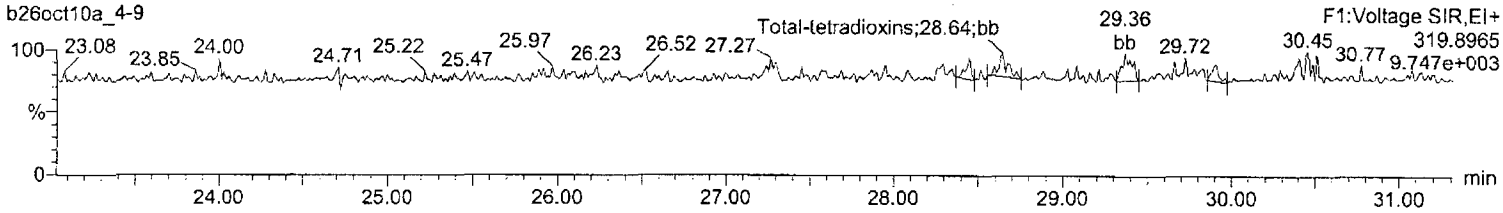
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

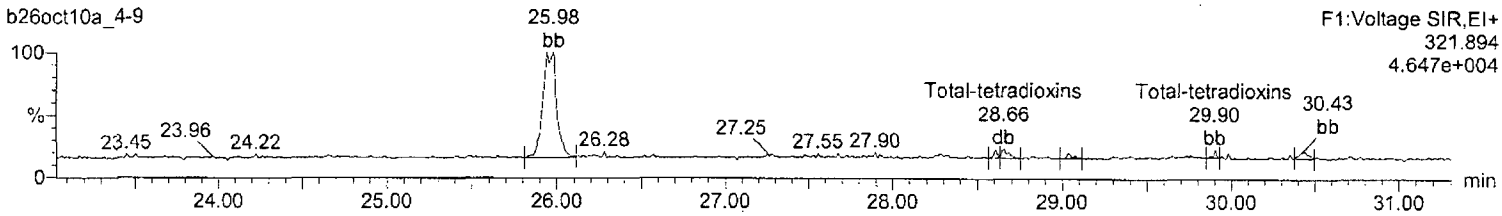
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-9, Date: 28-Oct-2010, Time: 09:01:57, ID: 1741002-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

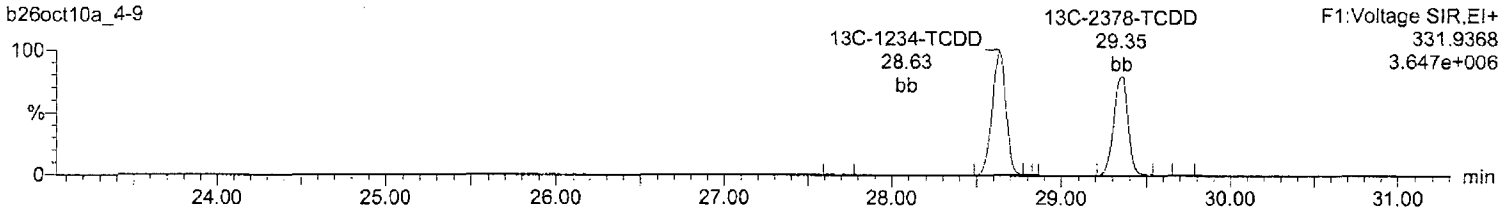
Total-tetradioxins



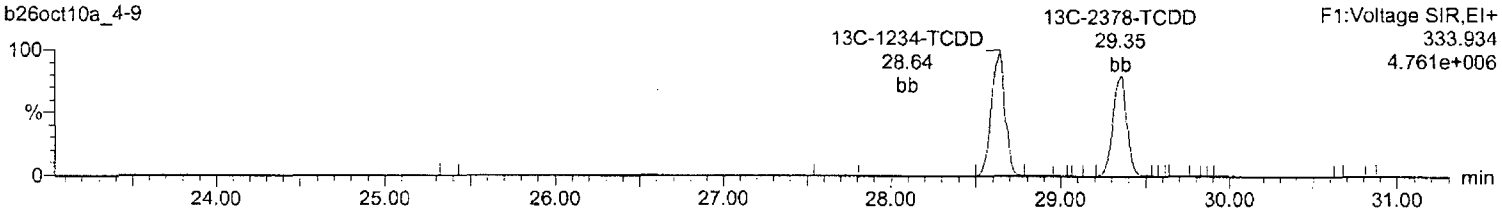
Total-tetradioxins



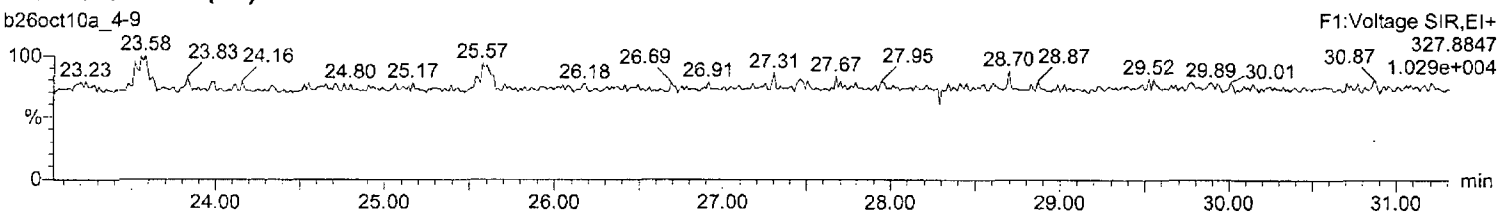
13C-2378-TCDD



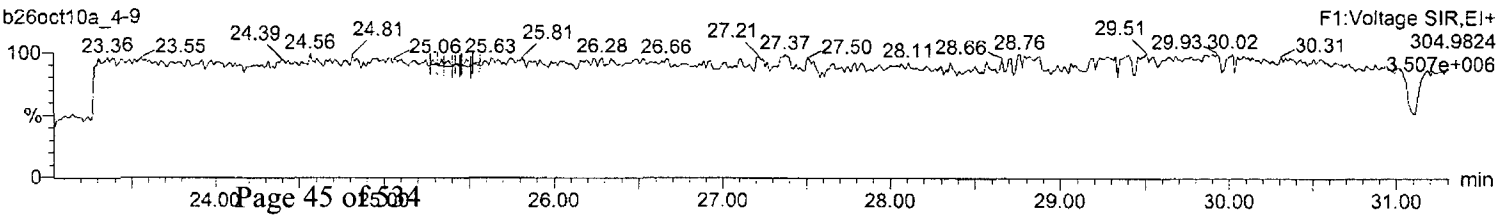
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741003	**Date Collected:**	10/12/2010 12:02	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	21.9
Client ID:	JA58750-3			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 09:47	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-10			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.94 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.121	pg/g	0.121	0.990

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		138	198	pg/g	69.7	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:39:10 Eastern Standard Time
Printed: Friday, October 29, 2010 15:40:05 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-10, Date: 28-Oct-2010, Time: 09:47:58, ID: 1741003-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0612		669			686		
2	12378-PeCDD							NO		0.0374		873			819		
3	123478-HxCDD							NO		0.0437		797			484		
4	123678-HxCDD							NO		0.0373		797			484		
5	123789-HxCDD							NO		0.0410		797			484		
6	1234678-HpCDD							NO		0.0494		459			464		
7	OCDD	9.97e2	1.10e3	2.10e3	42.19	1.000	0.90	NO	0.769	0.136	1.35e4	914	14.8	1.36e4	580	23.5	bb
8	2378-TCDF	1.53e3	1.87e3	3.39e3	28.46	1.001	0.82	NO	0.348	0.0683	1.55e4	1107	14.0	2.01e4	1334	15.0	bb
9	12378-PeCDF							NO		0.0300		1126			840		
10	23478-PeCDF	7.49e1	6.84e1	1.43e2	33.02	1.018	1.10	YES	0.018	0.0296	3.48e3	1126	3.1	2.24e3	840	2.7	db
11	123478-HxCDF							NO		0.0264		568			482		
12	123678-HxCDF							NO		0.0213		568			482		
13	234678-HxCDF							NO		0.0237		568			482		
14	123789-HxCDF							NO		0.0293		568			482		
15	1234678-HpCDF							NO		0.0270		432			440		
16	1234789-HpCDF							NO		0.0355		432			440		
17	OCDF							NO		0.0764		429			596		
18	13C-2378-TCDD	2.89e5	3.62e5	6.51e5	29.35	1.025	0.80	NO	69.739	0.112	3.19e6	2384	1338.5	3.97e6	1498	2648.9	bb
19	13C-12378-PeCDD	3.65e5	2.27e5	5.91e5	33.18	1.159	1.61	NO	84.167	0.135	8.44e6	2456	3436.5	5.17e6	1071	4823.6	bb
20	13C-123678-HxCDD	2.94e5	2.28e5	5.21e5	35.63	0.994	1.29	NO	76.676	0.102	6.32e6	2121	2982.4	4.81e6	2309	2083.6	bb
21	13C-1234678-HpCDD	1.84e5	1.71e5	3.54e5	38.53	1.075	1.08	NO	75.567	0.165	2.95e6	2495	1180.5	2.79e6	2431	1148.0	bb
22	13C-OCDD	2.66e5	2.91e5	5.57e5	42.18	1.177	0.91	NO	136.321	0.180	3.21e6	2159	1486.7	3.50e6	2529	1384.6	bd
23	13C-2378-TCDF	4.63e5	5.76e5	1.04e6	28.42	0.993	0.80	NO	71.476	0.0527	5.09e6	1606	3169.7	6.43e6	1237	5198.1	bb
24	13C-12378-PeCDF	5.45e5	3.49e5	8.95e5	32.42	1.132	1.56	NO	74.985	0.134	1.35e7	2514	5374.6	8.45e6	3430	2462.6	bd
25	13C-123678-HxCDF	2.28e5	4.28e5	6.56e5	34.99	0.977	0.53	NO	71.640	0.132	4.91e6	3190	1539.6	9.10e6	4512	2016.3	bb
26	13C-1234678-HpCDF	1.35e5	2.96e5	4.31e5	37.42	1.044	0.46	NO	71.978	0.0842	2.40e6	1288	1865.4	5.43e6	1920	2826.5	bd
27	13C-1234-TCDD	3.77e5	4.66e5	8.43e5	28.63	0.000	0.81	NO	100.000	0.124	4.20e6	2384	1759.7	5.15e6	1498	3439.0	bb
28	13C-123789-HxCDD	3.49e5	2.73e5	6.22e5	35.83	0.000	1.28	NO	100.000	0.112	6.66e6	2121	3141.2	5.22e6	2309	2261.3	bd
29	37Cl-2378-TCDD (SS)									0.0218		533					
30	13C-23478-PeCDF (SS)							NO		0.0849		2514			3430		

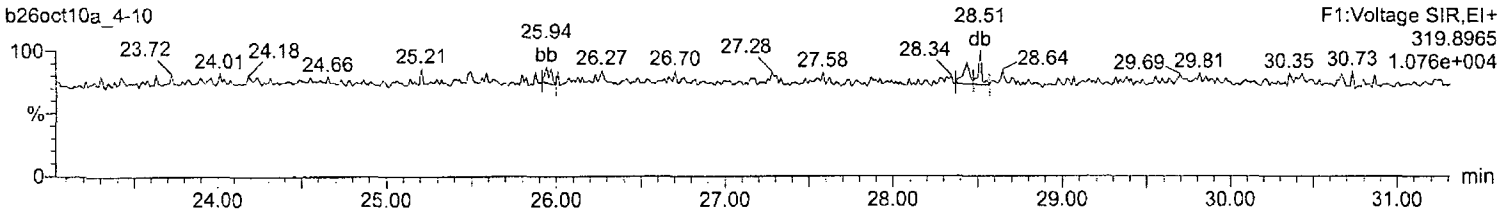
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

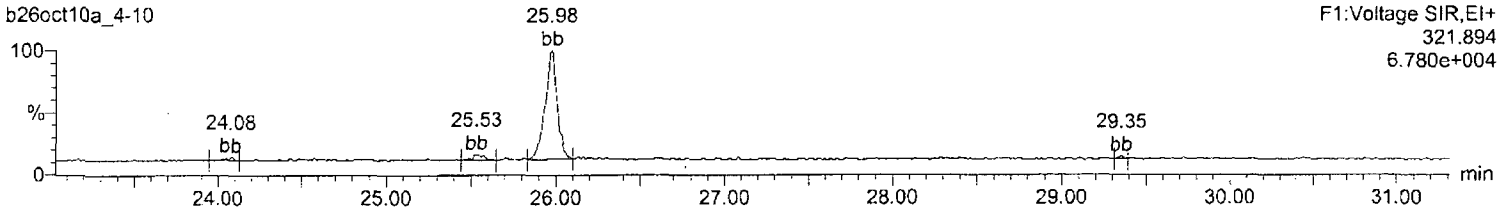
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-10, Date: 28-Oct-2010, Time: 09:47:58, ID: 1741003-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

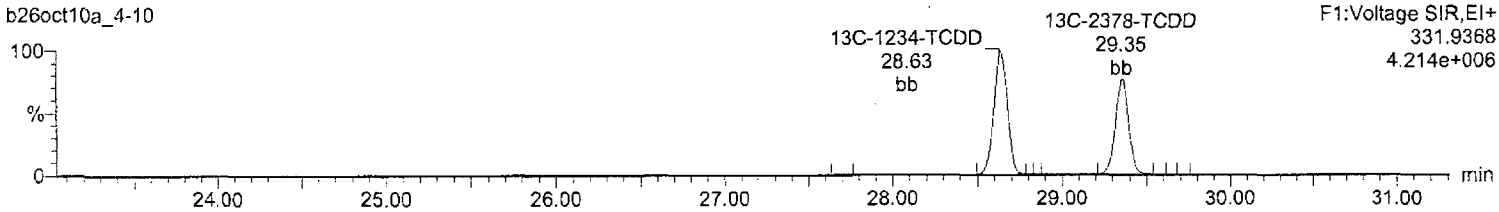
Total-tetradioxins



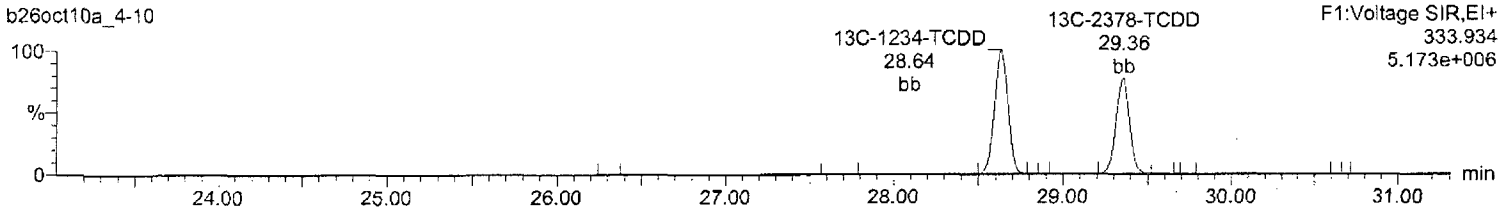
Total-tetradioxins



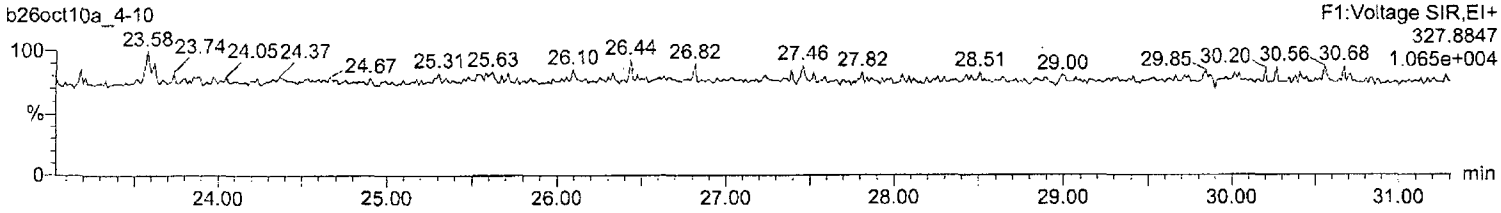
13C-2378-TCDD



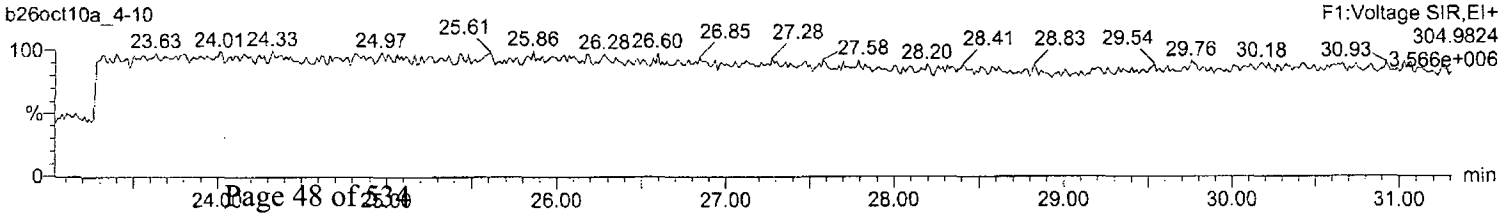
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741004	**Date Collected:**	10/12/2010 12:40	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	23.3
Client ID:	JA58750-4			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 10:33	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-11			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.54 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.163	pg/g	0.163	0.963

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		138	193	pg/g	71.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:41:24 Eastern Standard Time
Printed: Friday, October 29, 2010 15:41:51 Eastern Standard Time

HMP
31OCT10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-11, Date: 28-Oct-2010, Time: 10:33:57, ID: 1741004-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0846		863			765		
2	12378-PeCDD							NO		0.0334		581			663		
3	123478-HxCDD							NO		0.0651		815			832		
4	123678-HxCDD							NO		0.0555		815			832		
5	123789-HxCDD							NO		0.0610		815			832		
6	1234678-HpCDD	3.61e2	1.54e2	5.15e2	38.56	1.001	2.35	YES	0.134	0.0750	5.47e3	559	9.8	4.71e3	925	5.1	bd
7	OCDD	3.52e3	3.99e3	7.51e3	42.19	1.000	0.88	NO	2.804	0.110	4.10e4	653	62.8	5.62e4	502	111.9	bd
8	2378-TCDF	1.16e3	1.74e3	2.90e3	28.43	1.000	0.67	NO	0.273	0.0685	1.90e4	998	19.0	1.93e4	1542	12.5	db
9	12378-PeCDF							NO		0.0308		766			1000		
10	23478-PeCDF							NO		0.0305		766			1000		
11	123478-HxCDF							NO		0.0299		603			480		
12	123678-HxCDF							NO		0.0241		603			480		
13	234678-HxCDF							NO		0.0269		603			480		
14	123789-HxCDF							NO		0.0331		603			480		
15	1234678-HpCDF							NO		0.0345		572			564		
16	1234789-HpCDF							NO		0.0453		572			564		
17	OCDF	5.28e1	5.35e1	1.06e2	42.44	1.006	0.99	NO	0.033	0.0815	2.33e3	539	4.3	2.10e3	501	4.2	bb
18	13C-2378-TCDD	2.54e5	3.24e5	5.78e5	29.35	1.025	0.78	NO	71.893	0.116	2.74e6	1771	1549.4	3.55e6	1643	2163.2	bb
19	13C-12378-PeCDD	2.90e5	1.88e5	4.79e5	33.17	1.159	1.54	NO	79.156	0.132	6.84e6	1869	3657.3	4.33e6	1036	4180.8	bb
20	13C-123678-HxCDD	2.66e5	2.16e5	4.82e5	35.63	0.994	1.23	NO	87.343	0.129	5.35e6	2775	1929.0	4.17e6	1653	2524.7	bb
21	13C-1234678-HpCDD	2.03e5	1.86e5	3.89e5	38.53	1.075	1.09	NO	102.244	0.186	3.15e6	2185	1439.7	2.89e6	2206	1311.9	bd
22	13C-OCDD	2.59e5	2.87e5	5.46e5	42.18	1.177	0.90	NO	164.839	0.207	3.03e6	2222	1364.0	3.28e6	2033	1614.1	bd
23	13C-2378-TCDF	5.04e5	6.29e5	1.13e6	28.43	0.993	0.80	NO	90.495	0.0904	5.28e6	2421	2180.2	6.55e6	1713	3821.9	bd
24	13C-12378-PeCDF	4.92e5	3.10e5	8.02e5	32.41	1.132	1.59	NO	78.066	0.107	1.19e7	2343	5068.9	7.46e6	1665	4478.7	bd
25	13C-123678-HxCDF	2.24e5	4.35e5	6.60e5	34.98	0.976	0.52	NO	88.808	0.108	4.37e6	2150	2030.1	8.36e6	2822	2960.5	bb
26	13C-1234678-HpCDF	1.46e5	3.19e5	4.65e5	37.42	1.044	0.46	NO	95.868	0.101	2.45e6	1421	1727.8	5.37e6	1620	3313.8	bd
27	13C-1234-TCDD	3.23e5	4.03e5	7.26e5	28.63	0.000	0.80	NO	100.000	0.129	3.54e6	1771	2000.4	4.44e6	1643	2704.2	bb
28	13C-123789-HxCDD	2.81e5	2.23e5	5.04e5	35.83	0.000	1.26	NO	100.000	0.141	5.24e6	2775	1887.8	4.07e6	1653	2462.7	bd
29	37Cl-2378-TCDD (SS)									0.0302		643					
30	13C-23478-PeCDF (SS)							NO		0.0656		2343			1665		

Quantify Sample Report MassLynx 4.1

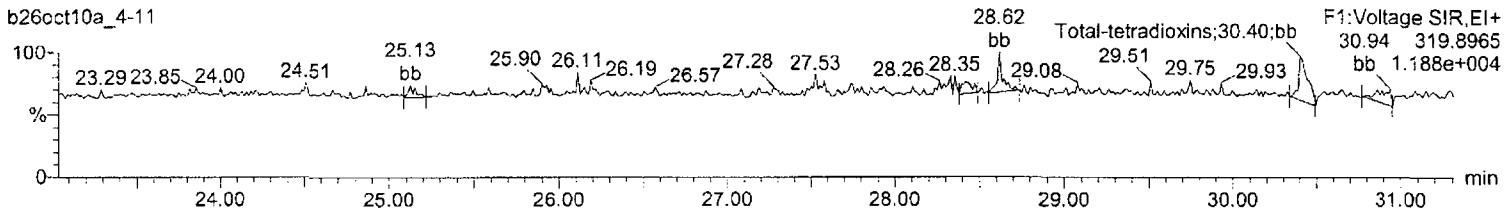
Method 8290 Quantification Report

Dataset: Untitled

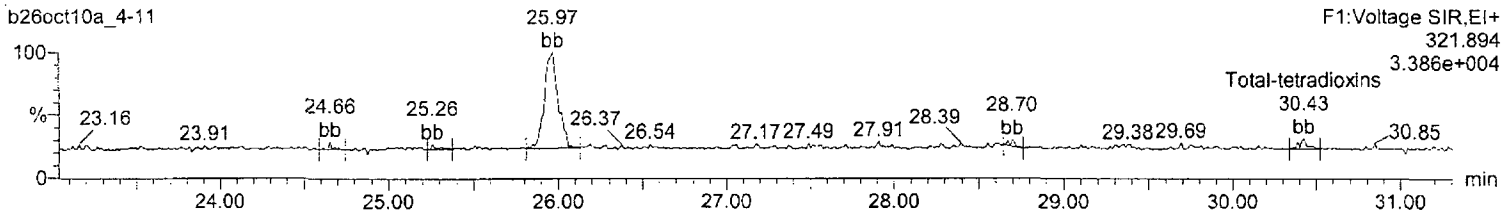
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-11, Date: 28-Oct-2010, Time: 10:33:57, ID: 1741004-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

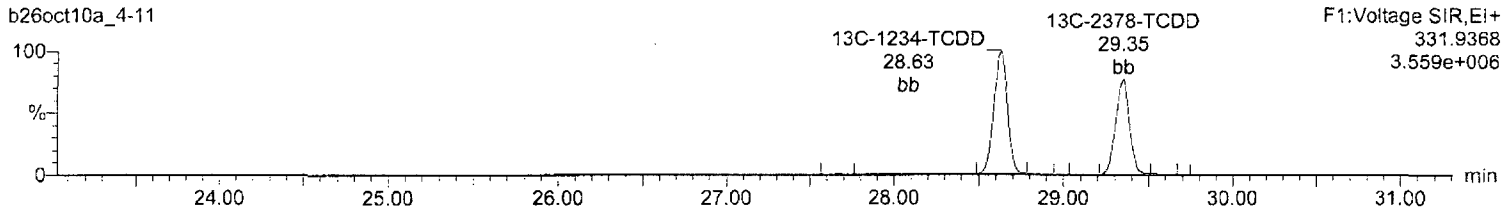
Total-tetradioxins



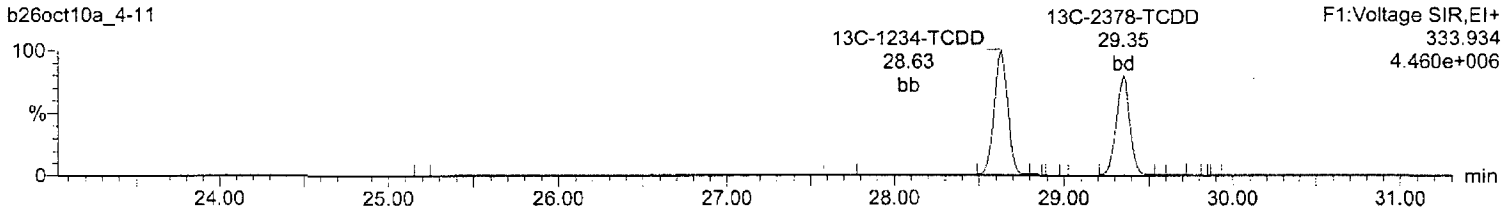
Total-tetradioxins



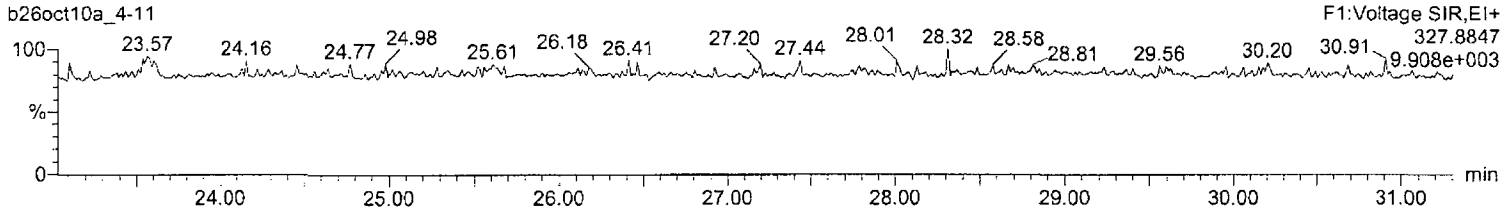
13C-2378-TCDD



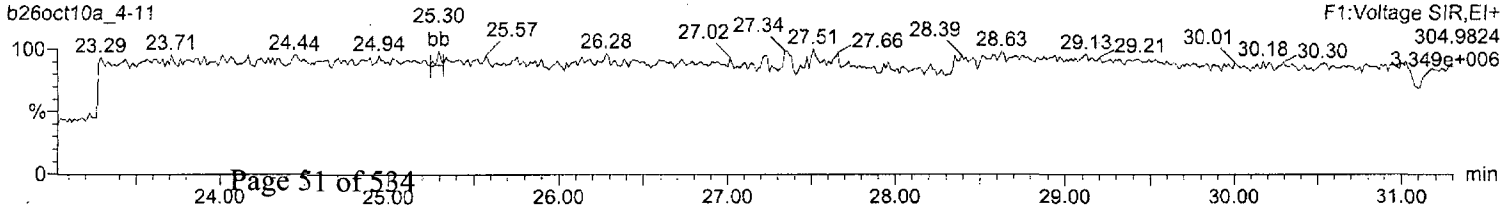
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741005	**Date Collected:**	10/12/2010 14:23	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.5
Client ID:	JA58750-5			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 11:19	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-12			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.85 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.152	pg/g	0.152	0.979

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		146	196	pg/g	74.7	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:43:05 Eastern Standard Time
Printed: Friday, October 29, 2010 15:45:34 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-12, Date: 28-Oct-2010, Time: 11:19:58, ID: 1741005-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0776		652			843		
2	12378-PeCDD							NO		0.0495		876			992		
3	123478-HxCDD							NO		0.0622		769			711		
4	123678-HxCDD							NO		0.0530		769			711		
5	123789-HxCDD							NO		0.0582		769			711		
6	1234678-HpCDD	2.71e2	2.41e2	5.12e2	38.54	1.000	1.12	NO	0.123	0.0590	4.89e3	667	7.3	3.94e3	616	6.4	bb
7	OCDD	4.69e3	5.44e3	1.01e4	42.19	1.000	0.86	NO	3.142	0.284	6.28e4	2980	21.1	6.10e4	555	109.8	bb
8	2378-TCDF	1.33e3	1.82e3	3.15e3	28.47	1.002	0.73	NO	0.316	0.0538	1.26e4	1044	12.1	2.10e4	879	23.9	bb
9	12378-PeCDF							NO		0.0326		963			995		
10	23478-PeCDF	2.21e2	1.36e2	3.57e2	33.01	1.018	1.62	NO	0.048	0.0322	3.88e3	963	4.0	4.78e3	995	4.8	db
11	123478-HxCDF							NO		0.0321		666			506		
12	123678-HxCDF							NO		0.0259		666			506		
13	234678-HxCDF							NO		0.0289		666			506		
14	123789-HxCDF							NO		0.0356		666			506		
15	1234678-HpCDF							NO		0.0255		487			424		
16	1234789-HpCDF							NO		0.0335		487			424		
17	OCDF							NO		0.0697		461			599		
18	13C-2378-TCDD	2.65e5	3.35e5	6.00e5	29.34	1.025	0.79	NO	74.665	0.116	2.76e6	2010	1372.4	3.50e6	1404	2492.2	bb
19	13C-12378-PeCDD	3.02e5	1.93e5	4.95e5	33.17	1.159	1.56	NO	81.927	0.102	6.97e6	1248	5584.5	4.47e6	1010	4422.5	bb
20	13C-123678-HxCDD	2.68e5	2.10e5	4.79e5	35.63	0.994	1.27	NO	81.190	0.139	5.11e6	3209	1592.7	3.96e6	1910	2073.7	bd
21	13C-1234678-HpCDD	2.14e5	2.06e5	4.20e5	38.53	1.075	1.04	NO	103.459	0.217	3.37e6	2603	1293.7	3.14e6	2924	1075.3	bb
22	13C-OCDD	3.14e5	3.44e5	6.58e5	42.19	1.178	0.91	NO	185.657	0.205	3.64e6	1911	1903.3	3.97e6	2649	1497.8	bb
23	13C-2378-TCDF	4.73e5	5.89e5	1.06e6	28.42	0.993	0.80	NO	84.948	0.0530	5.09e6	1299	3915.6	6.23e6	1137	5474.0	bb
24	13C-12378-PeCDF	5.09e5	3.12e5	8.22e5	32.41	1.132	1.63	NO	80.098	0.167	1.26e7	3180	3952.4	7.88e6	3116	2528.9	bd
25	13C-123678-HxCDF	2.24e5	4.20e5	6.44e5	34.99	0.977	0.53	NO	81.149	0.119	4.51e6	2771	1626.3	8.37e6	3175	2634.7	bb
26	13C-1234678-HpCDF	1.53e5	3.41e5	4.95e5	37.42	1.044	0.45	NO	95.384	0.118	2.63e6	1639	1605.5	5.86e6	2195	2668.0	bb
27	13C-1234-TCDD	3.16e5	4.09e5	7.25e5	28.63	0.000	0.77	NO	100.000	0.128	3.48e6	2010	1733.1	4.40e6	1404	3132.0	bb
28	13C-123789-HxCDD	3.01e5	2.38e5	5.39e5	35.83	0.000	1.27	NO	100.000	0.152	5.66e6	3209	1764.4	4.40e6	1910	2305.7	db
29	37Cl-2378-TCDD (SS)									0.0326		694					
30	13C-23478-PeCDF (SS)							NO		0.0983		3180			3116		

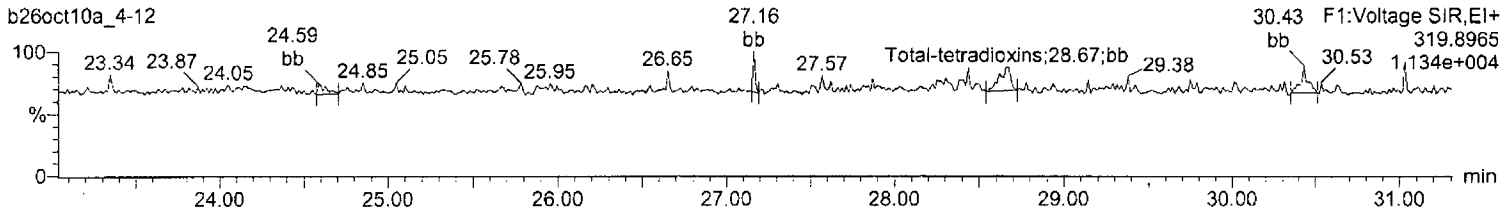
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

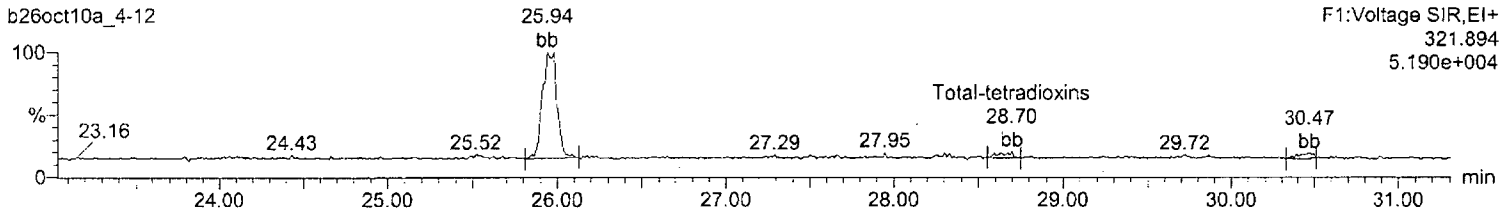
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-12, Date: 28-Oct-2010, Time: 11:19:58, ID: 1741005-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

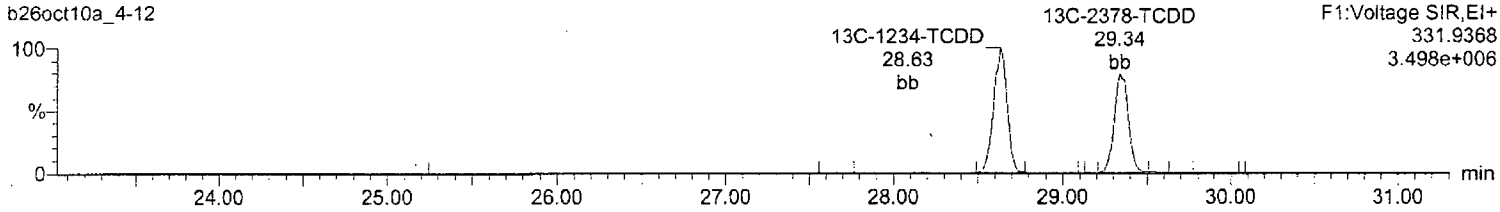
Total-tetradioxins



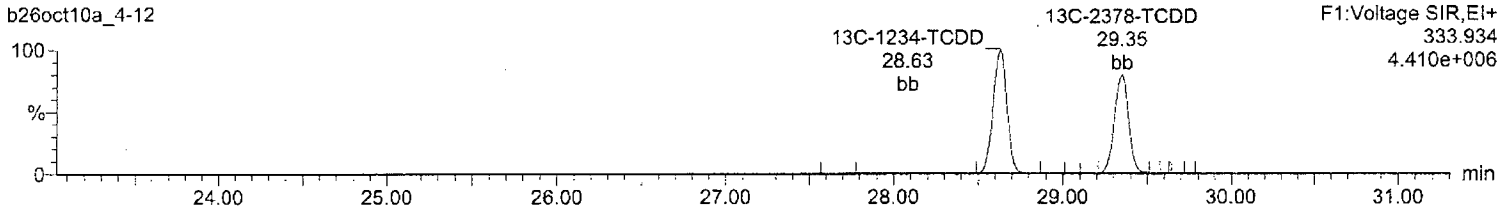
Total-tetradioxins



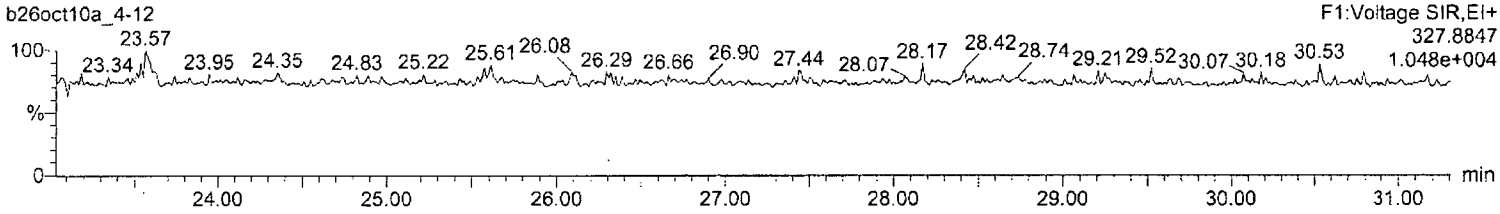
13C-2378-TCDD



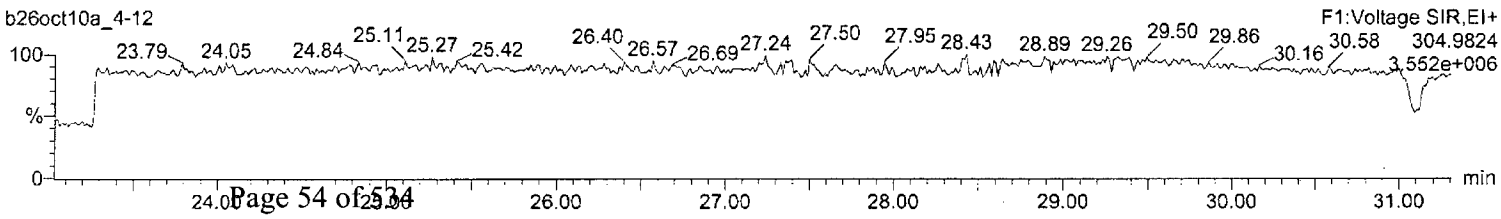
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741006	**Date Collected:**	10/12/2010 14:23	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	14.1
Client ID:	JA58750-6			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/28/2010 12:06	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b26oct10a_4-13			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	11.86 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.163	pg/g	0.163	0.982

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		141	196	pg/g	71.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:46:15 Eastern Standard Time
Printed: Friday, October 29, 2010 15:46:28 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-13, Date: 28-Oct-2010, Time: 12:06:00, ID: 1741006-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0832		652			696		
2	12378-PeCDD							NO		0.0457		817			663		
3	123478-HxCDD							NO		0.0594		662			709		
4	123678-HxCDD							NO		0.0507		662			709		
5	123789-HxCDD							NO		0.0556		662			709		
6	1234678-HpCDD	1.65e2	1.31e2	2.95e2	38.54	1.000	1.26	YES	0.080	0.0670	3.88e3	501	7.7	3.42e3	734	4.7	bb
7	OCDD	3.57e3	4.16e3	7.73e3	42.20	1.000	0.86	NO	2.767	0.125	4.21e4	803	52.4	4.88e4	551	88.6	bb
8	2378-TCDF							NO		0.0580		967			900		
9	12378-PeCDF	6.61e1	7.40e1	1.40e2	32.44	1.001	0.89	YES	0.021	0.0330	1.44e3	608	2.4	2.20e3	1068	2.1	bb
10	23478-PeCDF	9.52e1	8.22e1	1.77e2	33.02	1.018	1.16	YES	0.026	0.0326	2.54e3	608	4.2	2.78e3	1068	2.6	bb
11	123478-HxCDF							NO		0.0379		833			462		
12	123678-HxCDF							NO		0.0306		833			462		
13	234678-HxCDF							NO		0.0341		833			462		
14	123789-HxCDF							NO		0.0420		833			462		
15	1234678-HpCDF							NO		0.0269		478			397		
16	1234789-HpCDF							NO		0.0354		478			397		
17	OCDF							NO		0.0781		410			621		
18	13C-2378-TCDD	2.28e5	2.89e5	5.16e5	29.35	1.025	0.79	NO	71.882	0.127	2.32e6	1881	1233.7	2.95e6	1521	1942.7	bb
19	13C-12378-PeCDD	2.71e5	1.70e5	4.41e5	33.18	1.158	1.59	NO	81.611	0.195	6.00e6	2533	2370.5	3.81e6	1386	2751.7	bb
20	13C-123678-HxCDD	2.51e5	1.98e5	4.49e5	35.64	0.994	1.27	NO	78.892	0.156	4.95e6	2941	1683.0	3.86e6	2599	1486.3	bb
21	13C-1234678-HpCDD	1.94e5	1.82e5	3.76e5	38.54	1.075	1.07	NO	95.941	0.190	2.89e6	2441	1185.6	2.71e6	2207	1226.6	bb
22	13C-OCDD	2.73e5	2.97e5	5.70e5	42.19	1.177	0.92	NO	166.641	0.213	3.17e6	2911	1087.7	3.42e6	1638	2088.6	bd
23	13C-2378-TCDF	4.20e5	5.56e5	9.76e5	28.43	0.993	0.76	NO	87.261	0.0884	4.43e6	1808	2450.3	6.12e6	1879	3255.0	bb
24	13C-12378-PeCDF	4.62e5	2.89e5	7.51e5	32.42	1.132	1.60	NO	81.822	0.129	1.05e7	1891	5572.3	6.58e6	2516	2613.4	bd
25	13C-123678-HxCDF	2.17e5	4.04e5	6.21e5	34.99	0.976	0.54	NO	81.013	0.116	4.24e6	2293	1847.6	8.14e6	3231	2519.5	bd
26	13C-1234678-HpCDF	1.47e5	3.21e5	4.68e5	37.43	1.044	0.46	NO	93.597	0.111	2.42e6	1400	1731.4	5.54e6	2061	2688.1	bb
27	13C-1234-TCDD	2.86e5	3.62e5	6.49e5	28.64	0.000	0.79	NO	100.000	0.141	3.20e6	1881	1702.8	3.95e6	1521	2597.7	bb
28	13C-123789-HxCDD	2.90e5	2.31e5	5.20e5	35.84	0.000	1.26	NO	100.000	0.171	5.42e6	2941	1841.9	4.27e6	2599	1642.6	bb
29	37Cl-2378-TCDD (SS)									0.0369		661					
30	13C-23478-PeCDF (SS)							NO		0.0814		1891			2516		

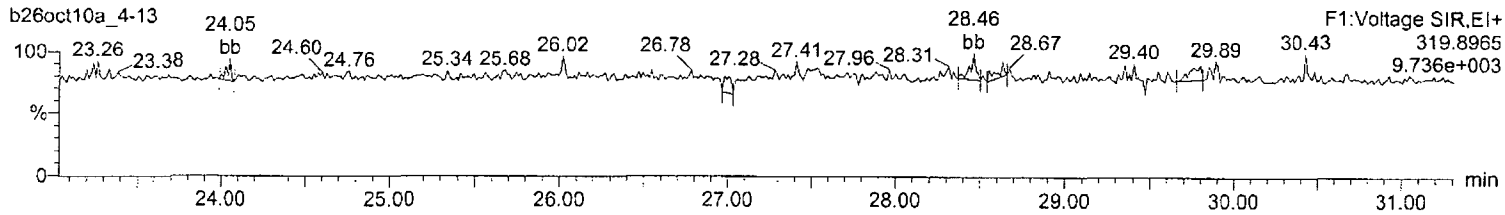
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

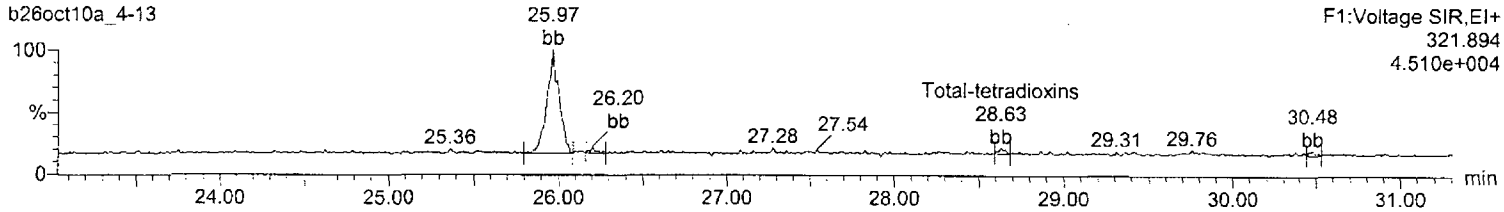
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-13, Date: 28-Oct-2010, Time: 12:06:00, ID: 1741006-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

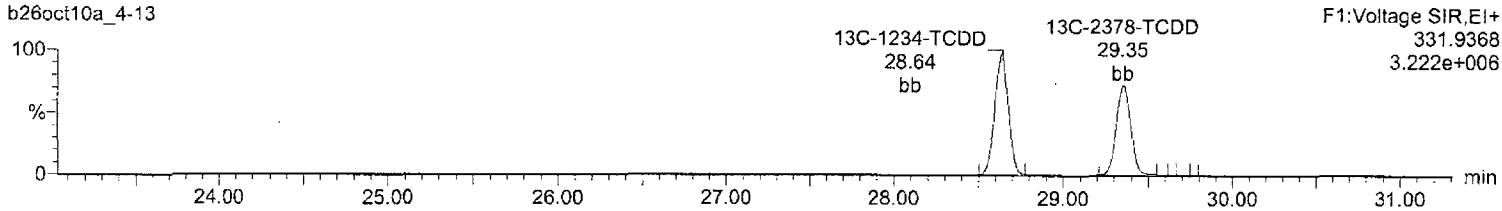
Total-tetradioxins



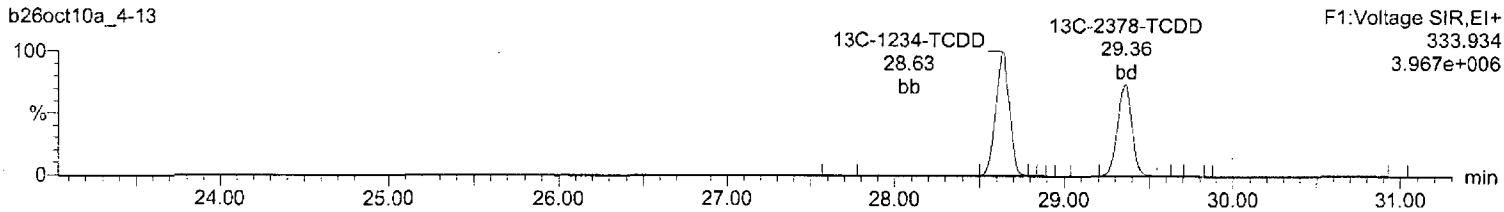
Total-tetradioxins



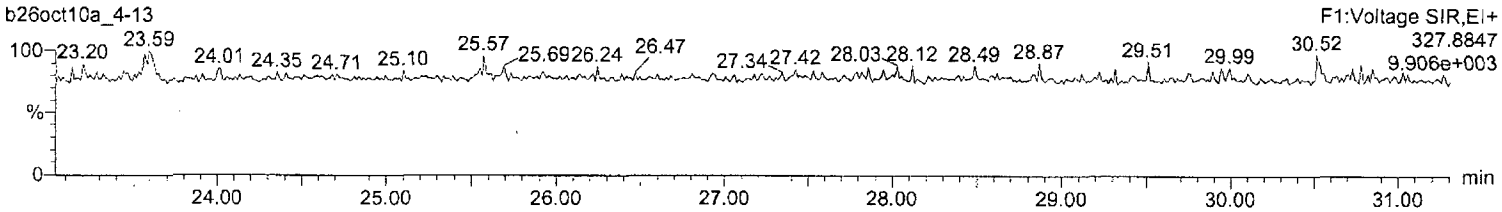
13C-2378-TCDD



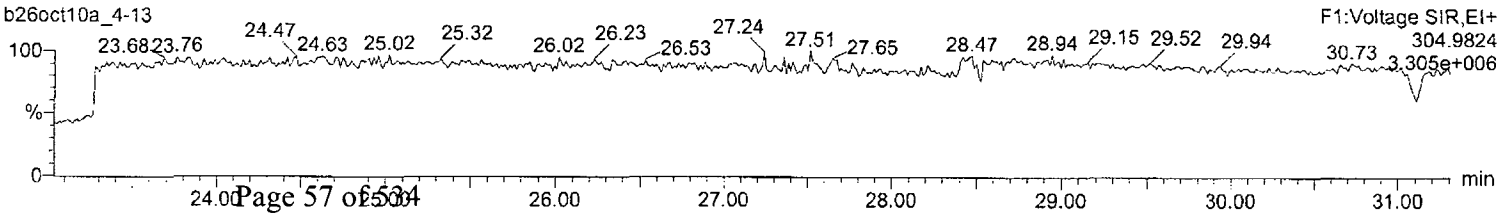
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741007	**Date Collected:**	10/12/2010 14:51	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	22.9
Client ID:	JA58750-7			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 19:04	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-3			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.2 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.171	pg/g	0.171	0.983

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		130	197	pg/g	66.3	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:19:21 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:19:34 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-3, Date: 29-Oct-2010, Time: 19:04:25, ID: 1741007-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0871		616			876		
2	12378-PeCDD							NO		0.0541		1172			748		
3	123478-HxCDD							NO		0.0538		520			642		
4	123678-HxCDD							NO		0.0459		520			642		
5	123789-HxCDD							NO		0.0504		520			642		
6	1234678-HpCDD							NO		0.0704		517			503		
7	OCDD	5.78e2	8.57e2	1.43e3	42.19	1.000	0.67	YES	0.691	0.199	7.72e3	744	10.4	9.64e3	758	12.7	bb
8	2378-TCDF	1.08e3	1.43e3	2.51e3	28.43	1.000	0.76	NO	0.252	0.0596	1.45e4	875	16.6	1.68e4	1121	15.0	bb
9	12378-PeCDF	9.50e1	7.98e1	1.75e2	32.41	1.000	1.19	YES	0.024	0.0397	3.39e3	1121	3.0	2.17e3	1149	1.9	bb
10	23478-PeCDF	1.14e2	1.01e2	2.15e2	33.03	1.019	1.13	YES	0.029	0.0392	4.32e3	1121	3.8	5.39e3	1149	4.7	bb
11	123478-HxCDF							NO		0.0369		605			602		
12	123678-HxCDF							NO		0.0297		605			602		
13	234678-HxCDF							NO		0.0331		605			602		
14	123789-HxCDF							NO		0.0408		605			602		
15	1234678-HpCDF							NO		0.0376		475			521		
16	1234789-HpCDF							NO		0.0495		475			521		
17	OCDF							NO		0.139		501			784		
18	13C-2378-TCDD	2.43e5	3.10e5	5.53e5	29.35	1.025	0.79	NO	66.329	0.161	2.44e6	2637	927.1	3.10e6	2103	1471.6	bb
19	13C-12378-PeCDD	2.96e5	1.97e5	4.93e5	33.17	1.159	1.50	NO	78.624	0.238	6.44e6	2437	2642.8	4.18e6	2828	1478.0	bb
20	13C-123678-HxCDD	2.57e5	2.04e5	4.61e5	35.63	0.994	1.26	NO	82.645	0.247	4.61e6	3587	1285.9	3.81e6	3819	997.1	bd
21	13C-1234678-HpCDD	1.68e5	1.56e5	3.23e5	38.53	1.075	1.08	NO	84.142	0.253	2.29e6	2761	828.0	2.09e6	2467	848.1	bd
22	13C-OCDD	2.04e5	2.19e5	4.23e5	42.18	1.177	0.93	NO	126.283	0.261	2.23e6	2277	980.9	2.50e6	2418	1033.8	bd
23	13C-2378-TCDF	4.79e5	5.82e5	1.06e6	28.43	0.993	0.82	NO	81.729	0.0702	4.83e6	1697	2848.1	5.88e6	1509	3897.5	bd
24	13C-12378-PeCDF	5.03e5	3.30e5	8.32e5	32.41	1.132	1.52	NO	78.171	0.160	1.17e7	3178	3669.8	7.40e6	2816	2629.6	bb
25	13C-123678-HxCDF	2.11e5	4.20e5	6.31e5	34.98	0.976	0.50	NO	84.046	0.202	3.89e6	3944	986.2	7.44e6	4215	1765.9	bb
26	13C-1234678-HpCDF	1.19e5	2.64e5	3.83e5	37.42	1.044	0.45	NO	77.998	0.181	1.96e6	2116	925.7	4.18e6	2660	1570.8	bd
27	13C-1234-TCDD	3.32e5	4.21e5	7.53e5	28.63	0.000	0.79	NO	100.000	0.179	3.51e6	2637	1330.6	4.39e6	2103	2085.2	bb
28	13C-123789-HxCDD	2.83e5	2.27e5	5.10e5	35.83	0.000	1.25	NO	100.000	0.271	4.56e6	3587	1271.2	3.68e6	3819	964.3	dd
29	37Cl-2378-TCDD (SS)									0.0257		486					
30	13C-23478-PeCDF (SS)							NO		0.0983		3178			2816		

Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

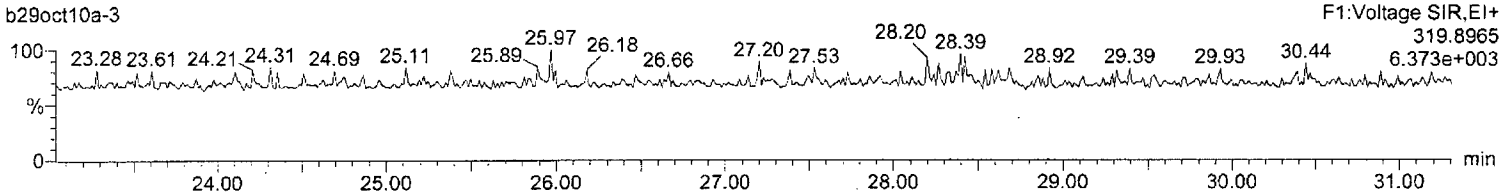
Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

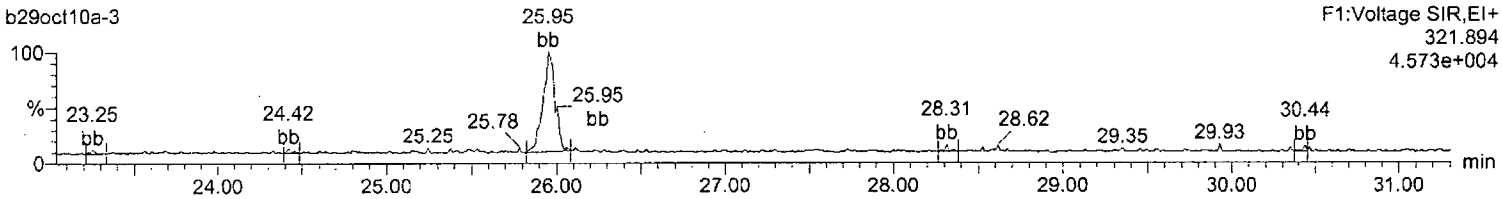
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-3, Date: 29-Oct-2010, Time: 19:04:25, ID: 1741007-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

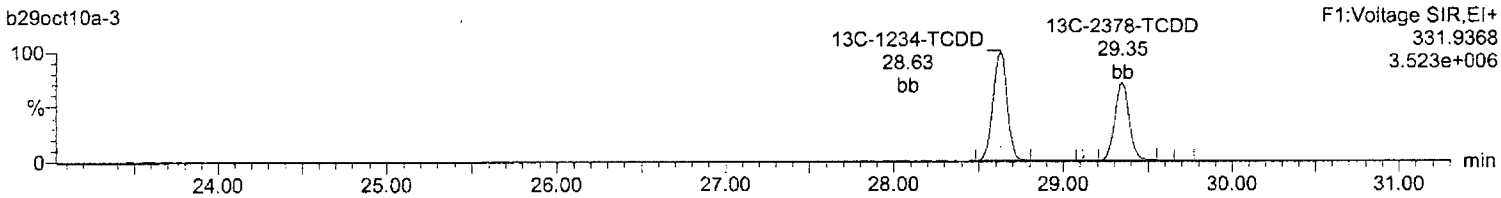
Total-tetradioxins



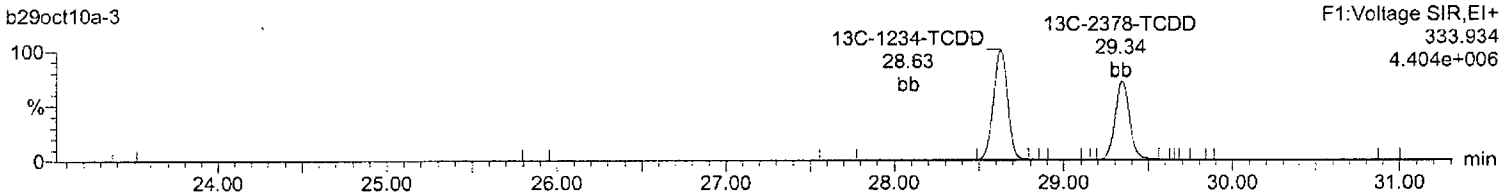
Total-tetradioxins



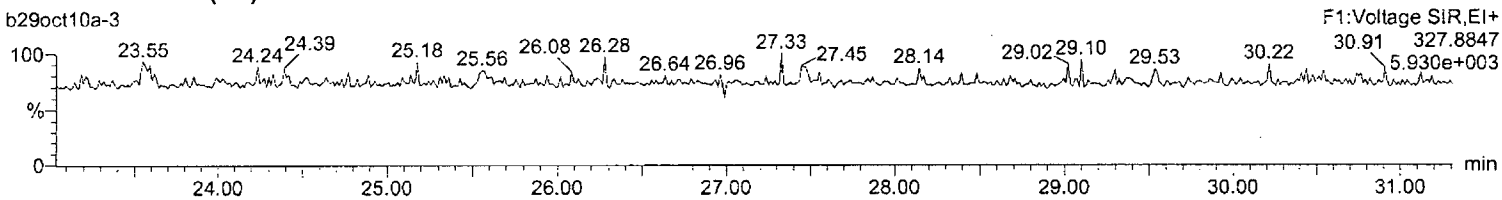
13C-2378-TCDD



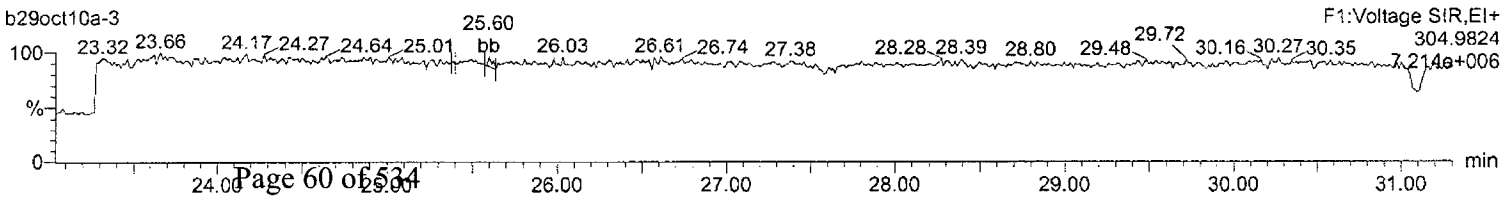
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741008	**Date Collected:**	10/12/2010 15:49	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	18.9
Client ID:	JA58750-8			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 19:50	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-4			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.96 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.144	pg/g	0.144	0.952

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		139	190	pg/g	73.0	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:22:47 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:23:46 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-4, Date: 29-Oct-2010, Time: 19:50:27, ID: 1741008-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0754		699			698		
2	12378-PeCDD							NO		0.0391		964			430		
3	123478-HxCDD							NO		0.0537		602			733		
4	123678-HxCDD							NO		0.0458		602			733		
5	123789-HxCDD							NO		0.0503		602			733		
6	1234678-HpCDD	3.41e2	4.28e2	7.69e2	38.55	1.000	0.80	YES	0.188	0.0847	6.26e3	865	7.2	7.11e3	729	9.8	bb
7	OCDD	9.32e3	1.04e4	1.97e4	42.20	1.000	0.89	NO	5.923	0.190	1.08e5	1248	86.7	1.24e5	1119	110.9	bb
8	2378-TCDF	1.27e3	1.51e3	2.78e3	28.47	1.002	0.84	NO	0.280	0.0630	1.61e4	890	18.1	1.44e4	1337	10.8	bb
9	12378-PeCDF							NO		0.0352		912			1161		
10	23478-PeCDF	5.87e1	1.10e2	1.68e2	33.01	1.018	0.54	YES	0.021	0.0348	1.77e3	912	1.9	2.93e3	1161	2.5	bb
11	123478-HxCDF							NO		0.0416		705			753		
12	123678-HxCDF							NO		0.0335		705			753		
13	234678-HxCDF							NO		0.0374		705			753		
14	123789-HxCDF							NO		0.0461		705			753		
15	1234678-HpCDF	6.55e1	9.75e1	1.63e2	37.42	1.000	0.67	YES	0.025	0.0312	1.99e3	557	3.6	2.03e3	542	3.7	bd
16	1234789-HpCDF							NO		0.0410		557			542		
17	OCDF	1.46e2	1.63e2	3.10e2	42.49	1.007	0.90	NO	0.076	0.0966	2.15e3	659	3.3	3.68e3	809	4.5	bd
18	13C-2378-TCDD	2.48e5	3.18e5	5.66e5	29.35	1.025	0.78	NO	73.029	0.130	2.63e6	2055	1281.1	3.32e6	1480	2245.6	bb
19	13C-12378-PeCDD	3.13e5	2.06e5	5.20e5	33.17	1.159	1.52	NO	89.066	0.237	6.51e6	1886	3451.5	4.23e6	2988	1417.2	bb
20	13C-123678-HxCDD	2.90e5	2.28e5	5.18e5	35.63	0.994	1.27	NO	77.257	0.187	5.33e6	3646	1462.5	4.22e6	3097	1362.8	bd
21	13C-1234678-HpCDD	2.16e5	1.99e5	4.15e5	38.54	1.075	1.08	NO	89.932	0.254	2.98e6	2965	1004.8	2.80e6	3329	842.3	bd
22	13C-OCDD	3.19e5	3.60e5	6.79e5	42.19	1.177	0.89	NO	168.712	0.333	3.58e6	3927	911.6	3.85e6	3267	1179.1	bd
23	13C-2378-TCDF	4.66e5	5.90e5	1.06e6	28.42	0.993	0.79	NO	87.442	0.0746	4.98e6	1591	3131.3	6.31e6	1577	4001.9	bb
24	13C-12378-PeCDF	5.41e5	3.50e5	8.91e5	32.42	1.132	1.54	NO	89.928	0.154	1.21e7	2805	4304.8	7.48e6	2565	2917.3	bb
25	13C-123678-HxCDF	2.33e5	4.35e5	6.68e5	34.99	0.976	0.54	NO	74.026	0.126	4.34e6	2463	1763.3	8.18e6	3633	2251.4	bd
26	13C-1234678-HpCDF	1.54e5	3.58e5	5.12e5	37.42	1.044	0.43	NO	86.958	0.151	2.53e6	2505	1009.1	5.65e6	2284	2474.8	bb
27	13C-1234-TCDD	3.08e5	3.92e5	7.00e5	28.63	0.000	0.79	NO	100.000	0.143	3.25e6	2055	1582.4	4.10e6	1480	2766.9	bb
28	13C-123789-HxCDD	3.41e5	2.71e5	6.12e5	35.84	0.000	1.26	NO	100.000	0.205	5.49e6	3646	1506.8	4.32e6	3097	1394.9	dd
29	37Cl-2378-TCDD (SS)									0.0303		619					
30	13C-23478-PeCDF (SS)							NO		0.0855		2805			2565		

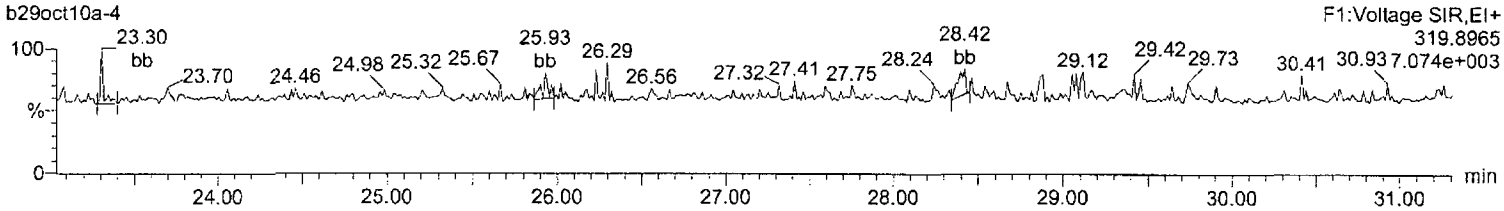
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

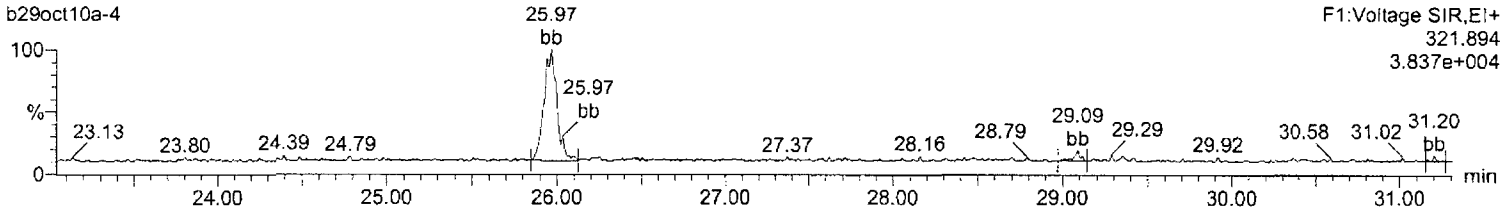
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-4, Date: 29-Oct-2010, Time: 19:50:27, ID: 1741008-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

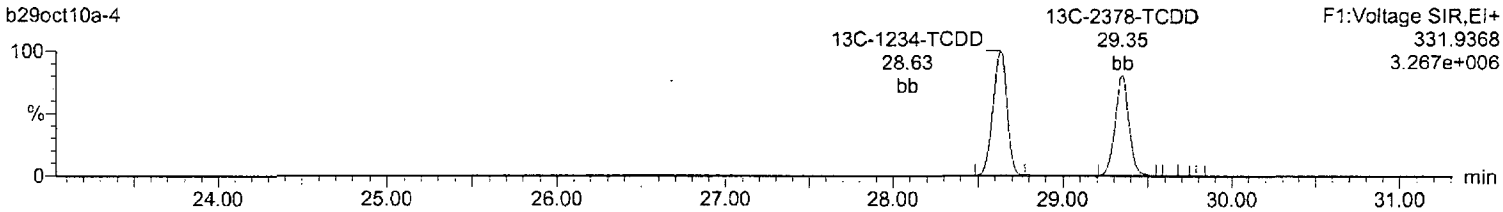
Total-tetradioxins



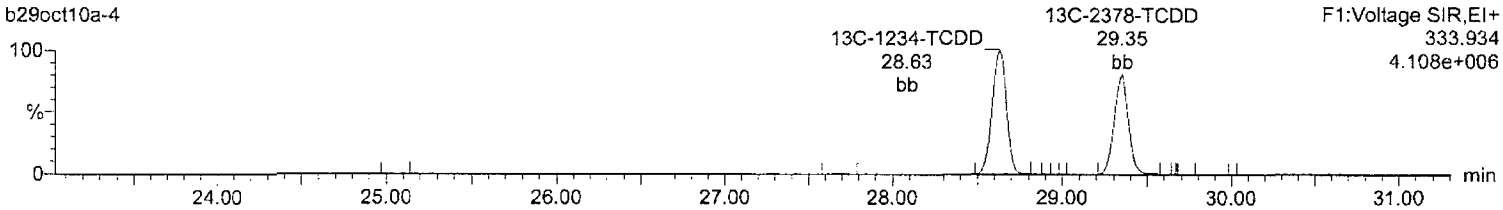
Total-tetradioxins



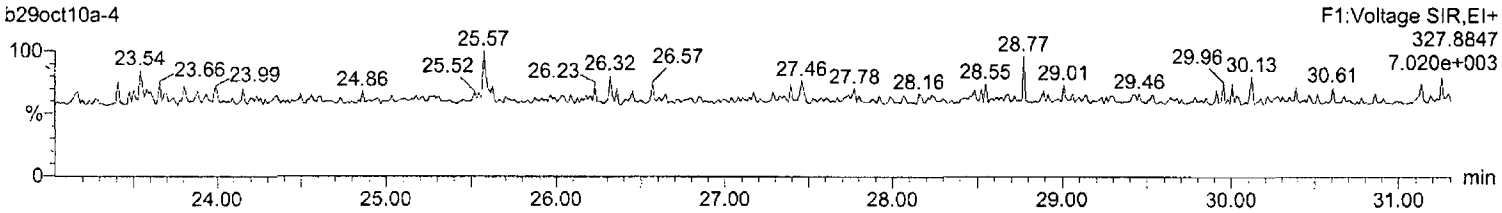
13C-2378-TCDD



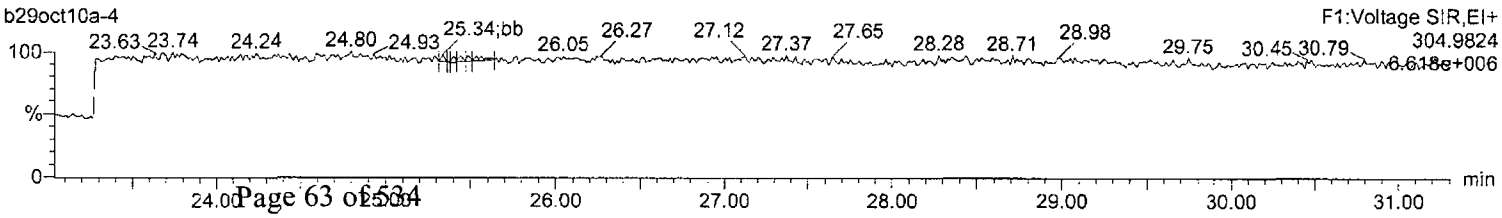
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741009	**Date Collected:**	10/12/2010 16:11	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20
Client ID:	JA58750-9			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 20:36	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-5			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.11 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.124	pg/g	0.124	0.953

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		133	191	pg/g	69.7	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:39:38 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:40:25 Eastern Standard Time

HMP
D4Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-5, Date: 29-Oct-2010, Time: 20:36:27, ID: 1741009-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0650		604			798		
2	12378-PeCDD							NO		0.0341		1038			503		
3	123478-HxCDD							NO		0.0480		656			727		
4	123678-HxCDD							NO		0.0409		656			727		
5	123789-HxCDD							NO		0.0449		656			727		
6	1234678-HpCDD	7.73e1	1.31e2	2.08e2	38.53	1.000	0.59	YES	0.050	0.0516	2.54e3	593	4.3	2.81e3	426	6.6	bb
7	OCDD	8.67e2	1.08e3	1.95e3	42.19	1.000	0.80	NO	0.618	0.0976	1.20e4	655	18.3	1.51e4	498	30.3	bd
8	2378-TCDF	1.23e3	1.59e3	2.82e3	28.46	1.001	0.77	NO	0.232	0.0553	1.42e4	1097	12.9	1.90e4	1299	14.6	bb
9	12378-PeCDF							NO		0.0274		867			1204		
10	23478-PeCDF	8.13e1	8.51e1	1.66e2	33.00	1.018	0.95	YES	0.017	0.0271	2.69e3	867	3.1	2.78e3	1204	2.3	bb
11	123478-HxCDF							NO		0.0226		521			491		
12	123678-HxCDF							NO		0.0182		521			491		
13	234678-HxCDF							NO		0.0203		521			491		
14	123789-HxCDF							NO		0.0250		521			491		
15	1234678-HpCDF							NO		0.0281		565			459		
16	1234789-HpCDF							NO		0.0370		565			459		
17	OCDF							NO		0.0874		448			812		
18	13C-2378-TCDD	2.87e5	3.75e5	6.62e5	29.35	1.025	0.77	NO	69.687	0.120	3.03e6	2415	1255.2	3.94e6	1654	2379.5	bb
19	13C-12378-PeCDD	3.79e5	2.39e5	6.19e5	33.18	1.158	1.59	NO	86.637	0.217	8.39e6	2561	3277.2	5.37e6	2966	1812.3	bb
20	13C-123678-HxCDD	3.26e5	2.50e5	5.76e5	35.63	0.994	1.30	NO	81.761	0.149	6.24e6	2800	2229.2	4.98e6	3023	1646.1	bd
21	13C-1234678-HpCDD	2.22e5	2.05e5	4.27e5	38.54	1.075	1.09	NO	87.874	0.246	3.13e6	3555	880.2	3.02e6	3089	978.7	bd
22	13C-OCDD	3.04e5	3.37e5	6.41e5	42.19	1.177	0.90	NO	151.429	0.232	3.43e6	2911	1177.9	3.67e6	2541	1444.4	bd
23	13C-2378-TCDF	5.73e5	7.22e5	1.29e6	28.42	0.992	0.79	NO	87.560	0.0728	6.13e6	1655	3705.3	7.69e6	2189	3515.7	bb
24	13C-12378-PeCDF	6.70e5	4.16e5	1.09e6	32.42	1.132	1.61	NO	89.515	0.180	1.58e7	3637	4331.0	9.99e6	4162	2400.1	bd
25	13C-123678-HxCDF	2.71e5	5.19e5	7.90e5	34.99	0.976	0.52	NO	83.216	0.116	5.45e6	2184	2497.2	1.02e7	3931	2582.5	bb
26	13C-1234678-HpCDF	1.62e5	3.69e5	5.31e5	37.43	1.044	0.44	NO	85.710	0.130	2.64e6	1950	1353.1	6.04e6	2518	2397.6	bd
27	13C-1234-TCDD	3.80e5	4.77e5	8.57e5	28.64	0.000	0.80	NO	100.000	0.133	4.08e6	2415	1688.1	5.16e6	1654	3118.9	bb
28	13C-123789-HxCDD	3.71e5	2.73e5	6.44e5	35.84	0.000	1.36	NO	100.000	0.163	6.18e6	2800	2208.0	4.85e6	3023	1605.2	dd
29	37Cl-2378-TCDD (SS)									0.0260		619					
30	13C-23478-PeCDF (SS)							NO		0.0967		3637			4162		

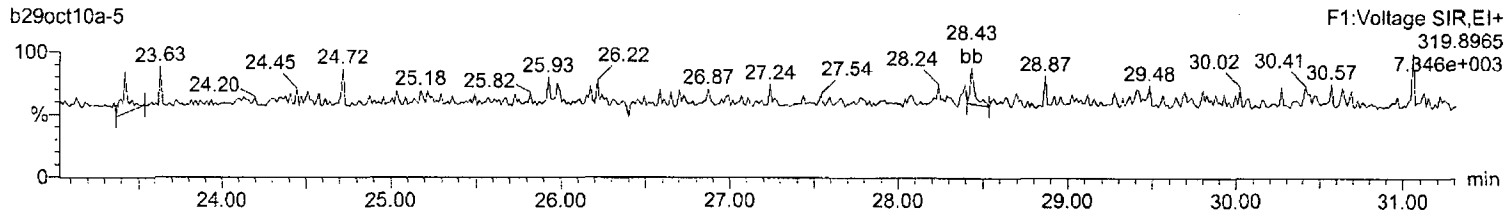
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

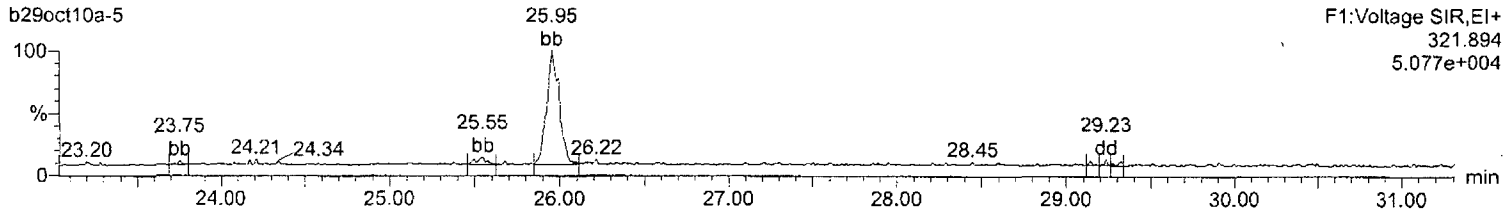
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-5, Date: 29-Oct-2010, Time: 20:36:27, ID: 1741009-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

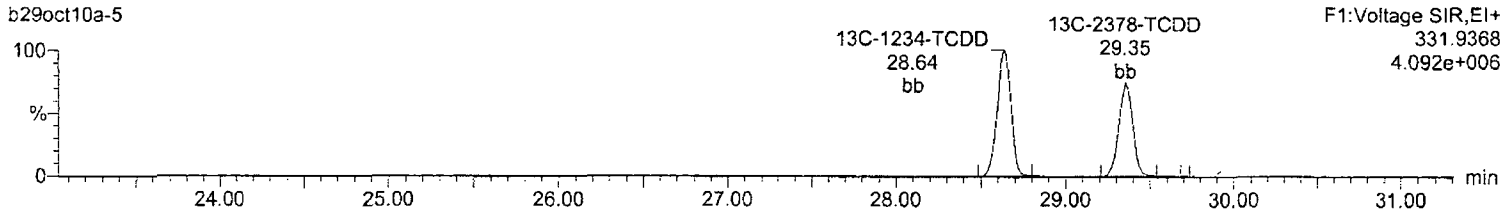
Total-tetradioxins



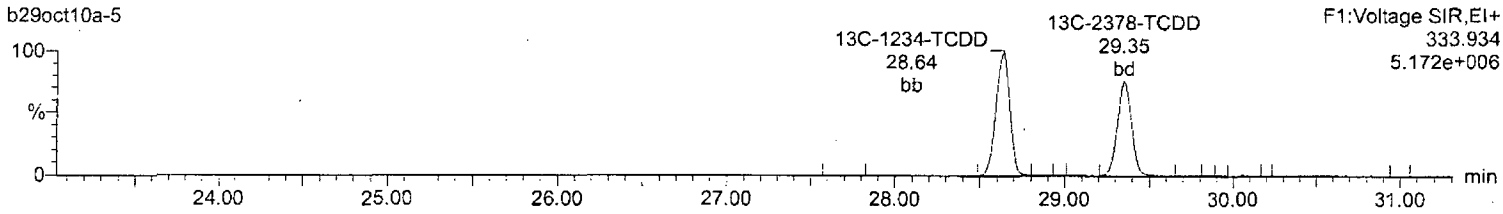
Total-tetradioxins



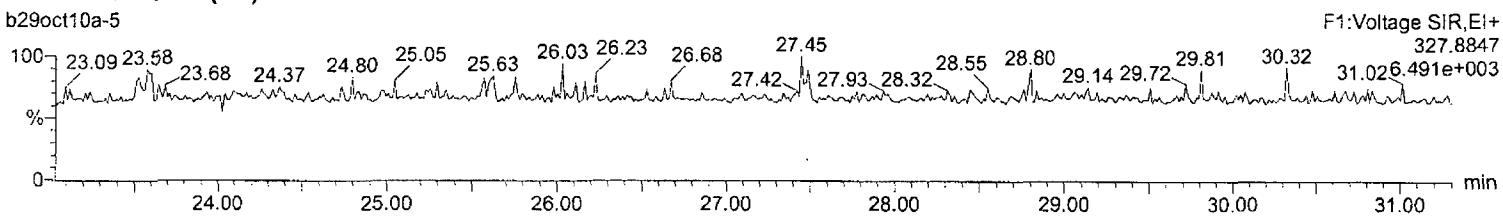
13C-2378-TCDD



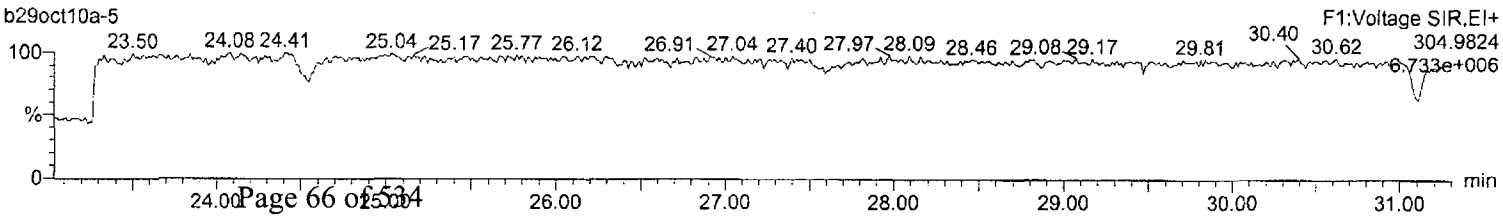
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741010**	**Date Collected:**	**10/12/2010 16:29**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**22.4**
Client ID:	**JA58750-10**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/29/2010 21:22**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-6**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.84 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.188	pg/g	0.188	0.932

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		136	186	pg/g	73.2	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:40:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:41:06 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-6, Date: 29-Oct-2010, Time: 21:22:26, ID: 1741010-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.101		665			1666		
2	12378-PeCDD							NO		0.0270		895			462		
3	123478-HxCDD							NO		0.0464		674			860		
4	123678-HxCDD							NO		0.0396		674			860		
5	123789-HxCDD							NO		0.0435		674			860		
6	1234678-HpCDD	2.42e2	2.02e2	4.44e2	38.56	1.001	1.20	YES	0.094	0.0602	7.12e3	888	8.0	3.97e3	524	7.6	bb
7	OCDD	1.16e3	1.55e3	2.71e3	42.19	1.000	0.75	YES	0.697	0.0992	1.62e4	595	27.3	2.12e4	827	25.6	bb
8	2378-TCDF	1.24e3	1.61e3	2.85e3	28.45	1.000	0.77	NO	0.228	0.0464	1.24e4	773	16.0	1.63e4	1290	12.6	db
9	12378-PeCDF	5.21e1	7.32e1	1.25e2	32.42	1.000	0.71	YES	0.013	0.0295	2.45e3	993	2.5	2.97e3	1276	2.3	bb
10	23478-PeCDF	1.76e2	1.28e2	3.04e2	33.00	1.018	1.38	NO	0.030	0.0291	4.67e3	993	4.7	2.65e3	1276	2.1	bb
11	123478-HxCDF							NO		0.0249		613			532		
12	123678-HxCDF							NO		0.0201		613			532		
13	234678-HxCDF							NO		0.0224		613			532		
14	123789-HxCDF							NO		0.0276		613			532		
15	1234678-HpCDF							NO		0.0261		530			494		
16	1234789-HpCDF							NO		0.0343		530			494		
17	OCDF							NO		0.0680		407			781		
18	13C-2378-TCDD	3.12e5	3.94e5	7.06e5	29.35	1.025	0.79	NO	73.207	0.121	3.29e6	2459	1339.7	4.29e6	1676	2561.1	bb
19	13C-12378-PeCDD	4.13e5	2.60e5	6.73e5	33.18	1.159	1.59	NO	92.825	0.210	9.33e6	2467	3782.3	5.67e6	2944	1926.3	bb
20	13C-123678-HxCDD	3.61e5	2.88e5	6.49e5	35.63	0.994	1.26	NO	81.980	0.165	7.05e6	3603	1956.4	5.72e6	3738	1529.5	bd
21	13C-1234678-HpCDD	2.48e5	2.30e5	4.78e5	38.54	1.075	1.08	NO	87.688	0.214	3.71e6	3503	1058.0	3.39e6	3044	1113.7	bb
22	13C-OCDD	3.74e5	4.18e5	7.92e5	42.18	1.177	0.90	NO	166.549	0.219	4.14e6	2623	1580.1	4.58e6	3204	1428.8	bd
23	13C-2378-TCDF	5.89e5	7.45e5	1.33e6	28.43	0.993	0.79	NO	88.828	0.0763	6.27e6	2201	2850.0	7.92e6	1867	4240.4	bb
24	13C-12378-PeCDF	6.93e5	4.29e5	1.12e6	32.42	1.132	1.62	NO	91.027	0.140	1.61e7	2791	5760.6	1.02e7	3347	3033.2	bd
25	13C-123678-HxCDF	2.80e5	5.29e5	8.10e5	34.99	0.976	0.53	NO	75.919	0.180	5.66e6	6832	827.8	1.06e7	3929	2704.3	bb
26	13C-1234678-HpCDF	1.83e5	4.00e5	5.84e5	37.42	1.044	0.46	NO	83.824	0.127	2.93e6	2543	1152.3	6.65e6	2415	2754.6	bd
27	13C-1234-TCDD	3.85e5	4.86e5	8.71e5	28.63	0.000	0.79	NO	100.000	0.134	4.10e6	2459	1668.1	5.21e6	1676	3109.1	bb
28	13C-123789-HxCDD	4.06e5	3.18e5	7.24e5	35.84	0.000	1.28	NO	100.000	0.181	6.83e6	3603	1894.7	5.42e6	3738	1451.1	dd
29	37Cl-2378-TCDD (SS)									0.0234		595					
30	13C-23478-PeCDF (SS)							NO		0.0747		2791			3347		

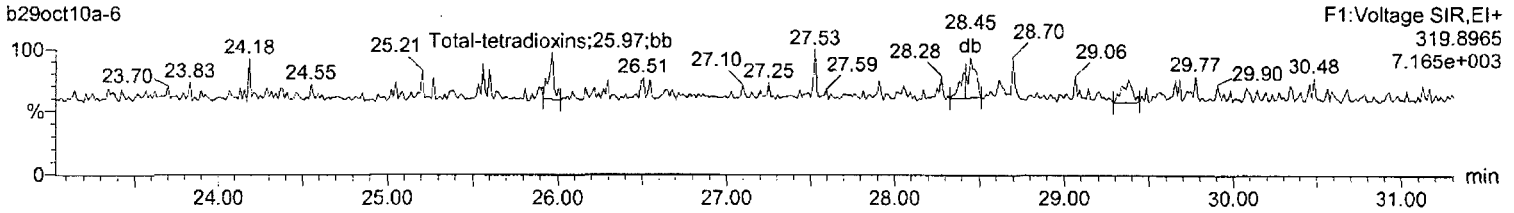
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

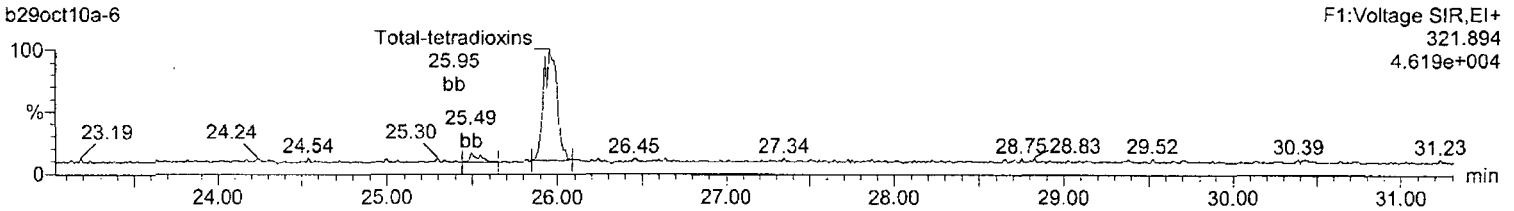
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-6, Date: 29-Oct-2010, Time: 21:22:26, ID: 1741010-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

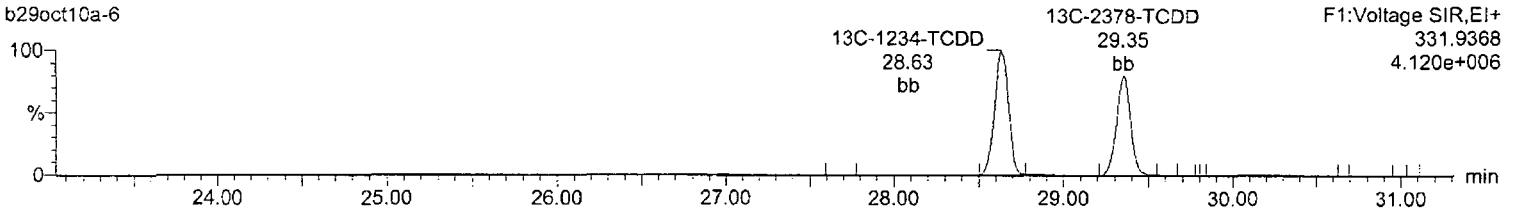
Total-tetradioxins



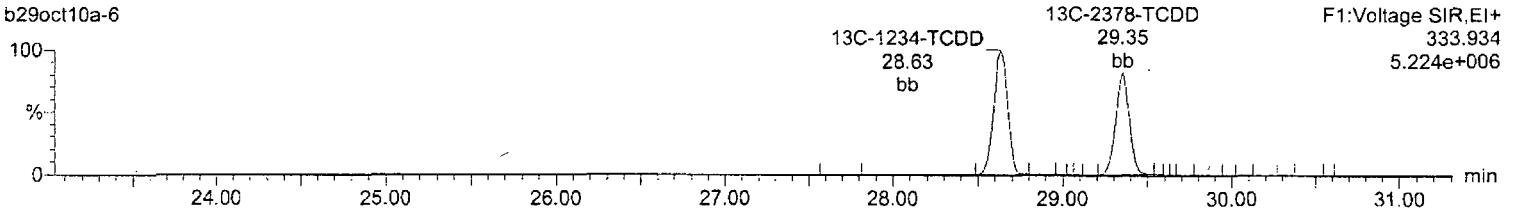
Total-tetradioxins



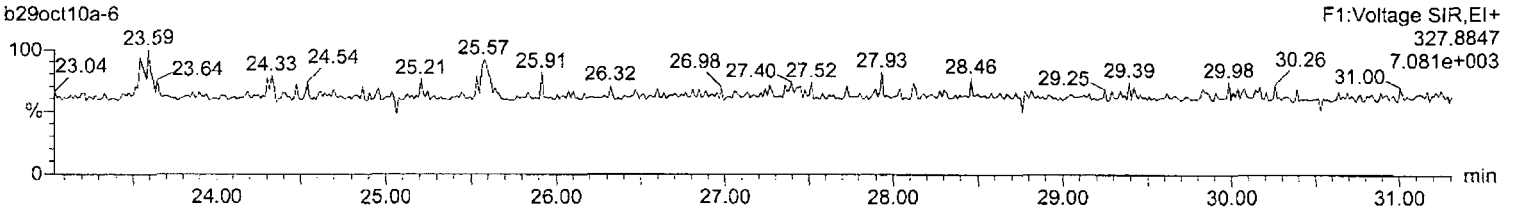
13C-2378-TCDD



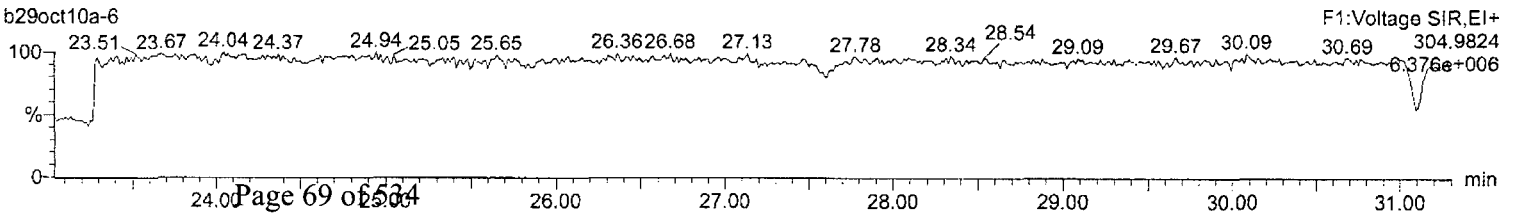
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741011**	**Date Collected:**	**10/13/2010 08:25**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD MS/MSD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.6**
Client ID:	**JA58750-11**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/29/2010 22:08**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-7**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.3 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.123	pg/g	0.123	0.947

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		128	189	pg/g	67.5	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:42:23 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:43:02 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-7, Date: 29-Oct-2010, Time: 22:08:27, ID: 1741011-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0651		731			718		
2	12378-PeCDD							NO		0.0354		986			818		
3	123478-HxCDD							NO		0.0502		848			805		
4	123678-HxCDD							NO		0.0428		848			805		
5	123789-HxCDD							NO		0.0470		848			805		
6	1234678-HpCDD	8.92e1	1.25e2	2.15e2	38.57	1.001	0.71	YES	0.042	0.0420	3.69e3	637	5.8	5.13e3	440	11.7	bb
7	OCDD	2.34e3	2.71e3	5.04e3	42.19	1.000	0.86	NO	1.246	0.0694	2.91e4	502	57.9	3.25e4	533	61.0	bd
8	2378-TCDF	9.09e2	5.61e2	1.47e3	28.46	1.001	1.62	YES	0.119	0.0491	1.13e4	721	15.6	1.57e4	1362	11.5	bb
9	12378-PeCDF							NO		0.0328		1369			1246		
10	23478-PeCDF							NO		0.0324		1369			1246		
11	123478-HxCDF							NO		0.0272		714			620		
12	123678-HxCDF							NO		0.0219		714			620		
13	234678-HxCDF							NO		0.0244		714			620		
14	123789-HxCDF							NO		0.0301		714			620		
15	1234678-HpCDF	7.74e1	8.89e1	1.66e2	37.44	1.000	0.87	YES	0.021	0.0204	1.51e3	383	3.9	2.86e3	557	5.1	bb
16	1234789-HpCDF							NO		0.0268		383			557		
17	OCDF							NO		0.0700		477			797		
18	13C-2378-TCDD	3.07e5	3.88e5	6.96e5	29.35	1.025	0.79	NO	67.512	0.116	3.19e6	2407	1327.2	4.05e6	1820	2223.4	bb
19	13C-12378-PeCDD	4.05e5	2.61e5	6.66e5	33.18	1.158	1.55	NO	85.942	0.154	9.38e6	1268	7395.1	5.90e6	2954	1999.0	bb
20	13C-123678-HxCDD	3.69e5	2.87e5	6.56e5	35.63	0.994	1.29	NO	77.028	0.154	7.09e6	4253	1668.1	5.59e6	3335	1676.4	bd
21	13C-1234678-HpCDD	2.71e5	2.51e5	5.22e5	38.54	1.075	1.08	NO	88.989	0.157	4.05e6	2444	1656.7	3.87e6	2871	1347.4	bd
22	13C-OCDD	3.95e5	4.29e5	8.25e5	42.19	1.177	0.92	NO	161.209	0.203	4.37e6	2730	1602.0	4.97e6	3286	1510.9	bd
23	13C-2378-TCDF	5.85e5	7.32e5	1.32e6	28.43	0.993	0.80	NO	82.075	0.0581	6.02e6	1693	3556.7	7.35e6	1604	4579.0	bb
24	13C-12378-PeCDF	7.10e5	4.49e5	1.16e6	32.42	1.132	1.58	NO	88.063	0.139	1.65e7	3855	4277.5	1.05e7	2608	4010.5	bd
25	13C-123678-HxCDF	2.90e5	5.47e5	8.37e5	34.99	0.976	0.53	NO	72.945	0.0881	6.04e6	2528	2388.7	1.14e7	3314	3447.0	bb
26	13C-1234678-HpCDF	1.90e5	4.31e5	6.21e5	37.43	1.044	0.44	NO	82.944	0.130	3.35e6	2973	1127.6	7.35e6	2661	2762.2	bb
27	13C-1234-TCDD	4.11e5	5.20e5	9.31e5	28.64	0.000	0.79	NO	100.000	0.128	4.36e6	2407	1810.6	5.63e6	1820	3090.9	bb
28	13C-123789-HxCDD	4.47e5	3.32e5	7.78e5	35.84	0.000	1.35	NO	100.000	0.169	7.74e6	4253	1820.7	6.19e6	3335	1855.0	dd
29	37Cl-2378-TCDD (SS)									0.0237		584					
30	13C-23478-PeCDF (SS)							NO		0.0760		3855			2608		

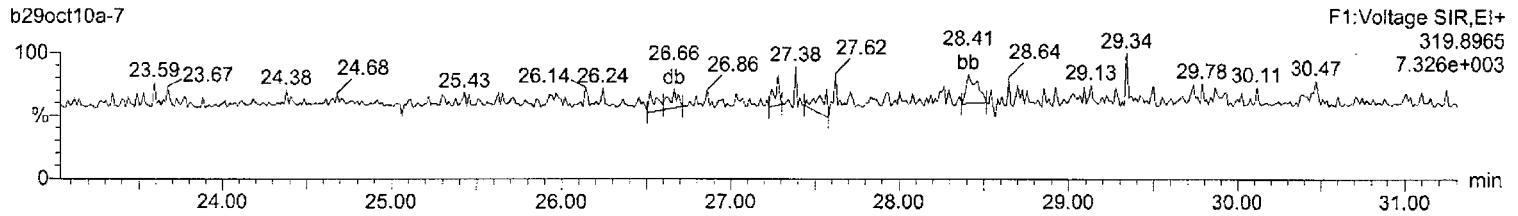
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

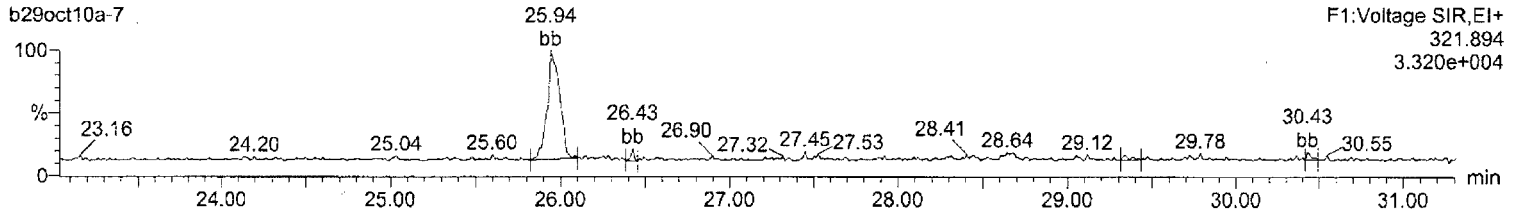
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-7, Date: 29-Oct-2010, Time: 22:08:27, ID: 1741011-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

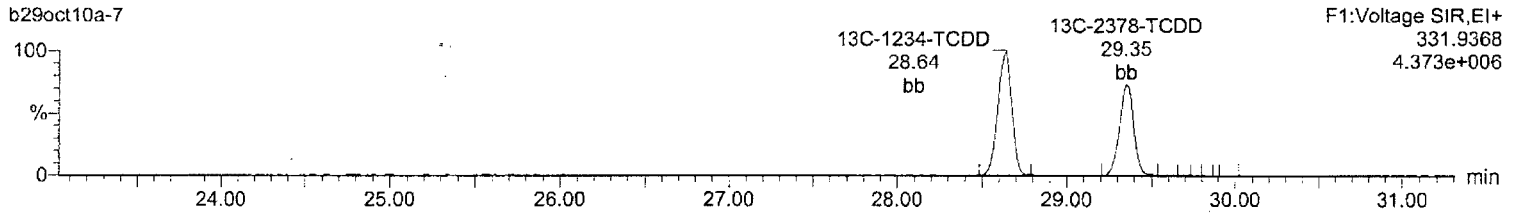
Total-tetradioxins



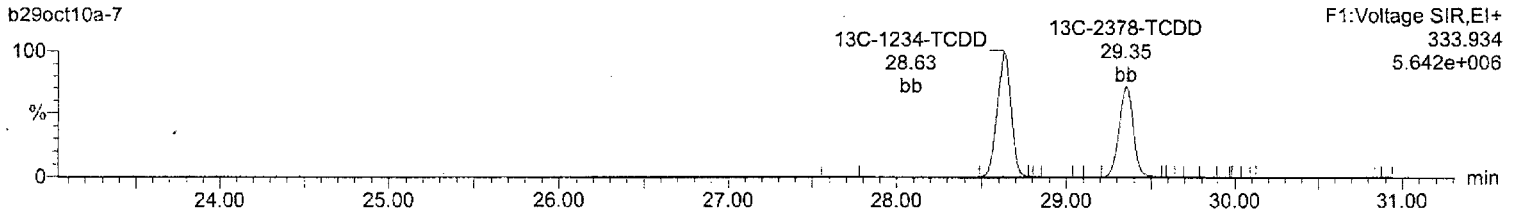
Total-tetradioxins



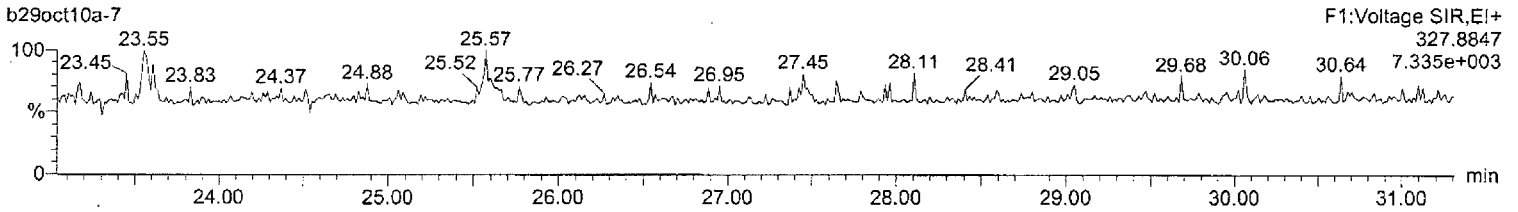
13C-2378-TCDD



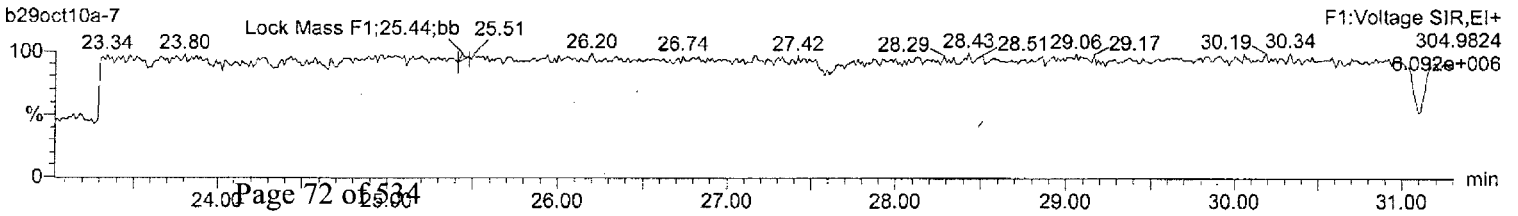
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741012**	**Date Collected:**	**10/13/2010 08:55**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.7**
Client ID:	**JA58750-12**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/30/2010 00:26**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-10**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**13.1 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.153	pg/g	0.153	0.963

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		131	193	pg/g	68.0	(40%-135%)

Comments:

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:48:19 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:48:48 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-10, Date: 30-Oct-2010, Time: 00:26:27, ID: 1741012-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0796		635			907		
2	12378-PeCDD							NO		0.0368		1029			609		
3	123478-HxCDD							NO		0.0580		792			849		
4	123678-HxCDD							NO		0.0495		792			849		
5	123789-HxCDD	5.51e1	6.64e1	1.22e2	35.86	1.007	0.83	YES	0.026	0.0543	1.93e3	792	2.4	2.82e3	849	3.3	bb
6	1234678-HpCDD	2.10e2	1.88e2	3.98e2	38.55	1.000	1.12	NO	0.092	0.0561	4.07e3	660	6.2	3.33e3	512	6.5	bb
7	OCDD	9.60e2	1.28e3	2.24e3	42.21	1.001	0.75	YES	0.615	0.0673	1.30e4	423	30.8	1.50e4	472	31.7	bb
8	2378-TCDF	1.11e3	1.50e3	2.61e3	28.46	1.001	0.74	NO	0.242	0.0502	1.31e4	719	18.3	1.85e4	1171	15.8	bd
9	12378-PeCDF	1.24e2	1.17e2	2.41e2	32.44	1.001	1.06	YES	0.028	0.0318	3.36e3	989	3.4	2.77e3	1157	2.4	bb
10	23478-PeCDF	1.74e2	9.66e1	2.71e2	33.02	1.018	1.81	YES	0.031	0.0314	5.31e3	989	5.4	3.77e3	1157	3.3	bb
11	123478-HxCDF							NO		0.0411		1037			608		
12	123678-HxCDF	7.77e1	1.01e2	1.79e2	35.01	1.001	0.77	YES	0.023	0.0331	2.88e3	1037	2.8	3.01e3	608	5.0	bb
13	234678-HxCDF							NO		0.0369		1037			608		
14	123789-HxCDF							NO		0.0455		1037			608		
15	1234678-HpCDF							NO		0.0331		675			484		
16	1234789-HpCDF							NO		0.0436		675			484		
17	OCDF							NO		0.0731		507			679		
18	13C-2378-TCDD	2.75e5	3.45e5	6.20e5	29.35	1.025	0.80	NO	68.031	0.107	2.79e6	2171	1283.0	3.58e6	1295	2769.1	bd
19	13C-12378-PeCDD	3.64e5	2.31e5	5.94e5	33.18	1.158	1.57	NO	86.690	0.138	8.24e6	1734	4753.5	5.19e6	1605	3236.7	bb
20	13C-123678-HxCDD	3.12e5	2.48e5	5.60e5	35.63	0.994	1.26	NO	77.293	0.148	6.04e6	4042	1494.4	4.73e6	2296	2059.1	bb
21	13C-1234678-HpCDD	2.24e5	2.16e5	4.40e5	38.54	1.075	1.03	NO	88.100	0.203	3.23e6	2924	1105.4	3.10e6	3060	1012.8	bb
22	13C-OCDD	3.55e5	3.88e5	7.43e5	42.18	1.177	0.91	NO	170.666	0.279	3.88e6	3125	1242.2	4.31e6	4048	1064.3	bd
23	13C-2378-TCDF	5.09e5	6.38e5	1.15e6	28.42	0.992	0.80	NO	80.842	0.0696	5.34e6	1538	3473.0	6.66e6	1959	3397.5	bb
24	13C-12378-PeCDF	5.95e5	3.76e5	9.71e5	32.42	1.132	1.58	NO	83.411	0.167	1.40e7	3338	4184.1	8.70e6	3522	2471.4	bb
25	13C-123678-HxCDF	2.54e5	4.85e5	7.40e5	34.99	0.976	0.52	NO	75.825	0.0979	4.89e6	2037	2400.4	9.55e6	3595	2657.0	bb
26	13C-1234678-HpCDF	1.51e5	3.47e5	4.99e5	37.43	1.044	0.44	NO	78.296	0.103	2.53e6	1989	1270.1	5.62e6	1876	2996.7	bb
27	13C-1234-TCDD	3.65e5	4.58e5	8.23e5	28.64	0.000	0.80	NO	100.000	0.119	3.87e6	2171	1783.6	4.80e6	1295	3708.5	bb
28	13C-123789-HxCDD	3.66e5	2.96e5	6.62e5	35.84	0.000	1.23	NO	100.000	0.162	6.47e6	4042	1601.0	5.22e6	2296	2275.0	bb
29	37Cl-2378-TCDD (SS)									0.0243		520					
30	13C-23478-PeCDF (SS)							NO		0.0953		3338			3522		

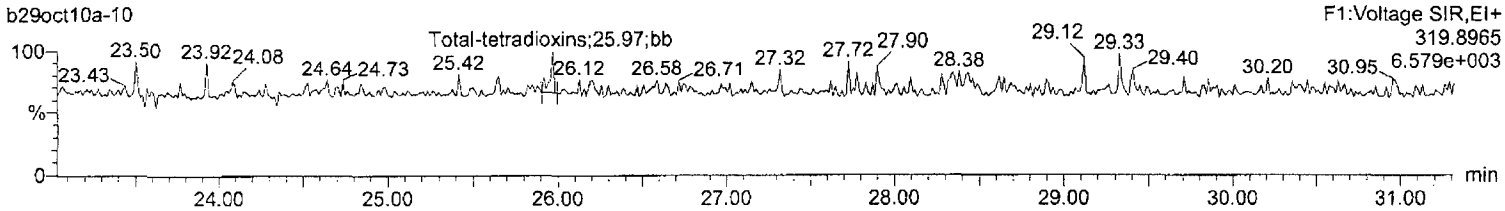
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

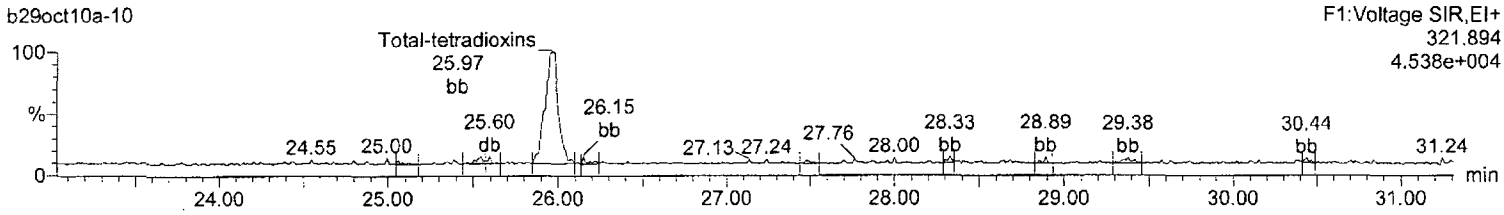
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-10, Date: 30-Oct-2010, Time: 00:26:27, ID: 1741012-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

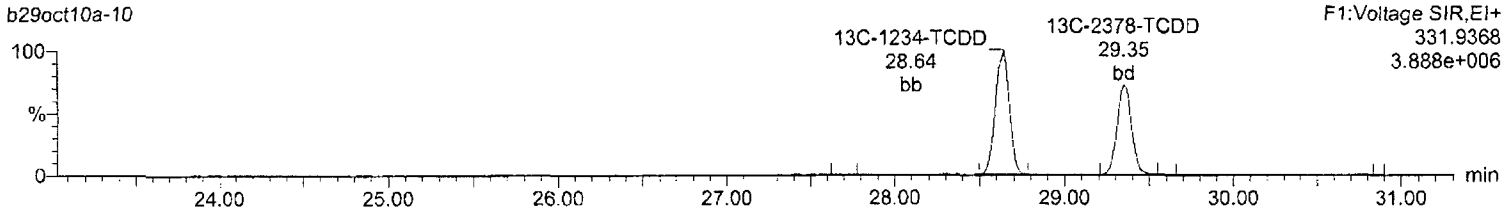
Total-tetradioxins



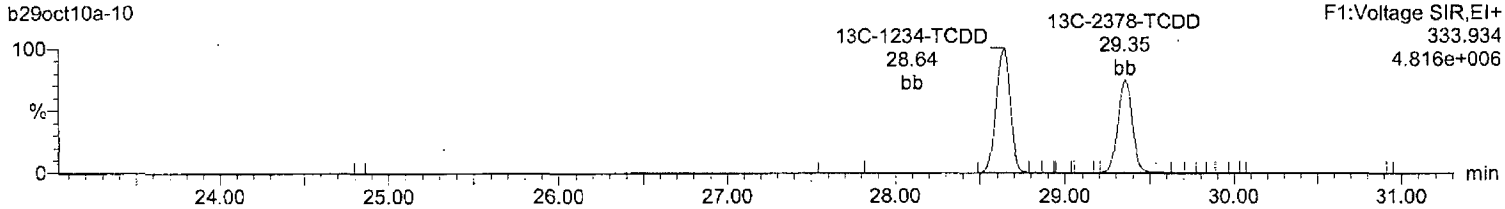
Total-tetradioxins



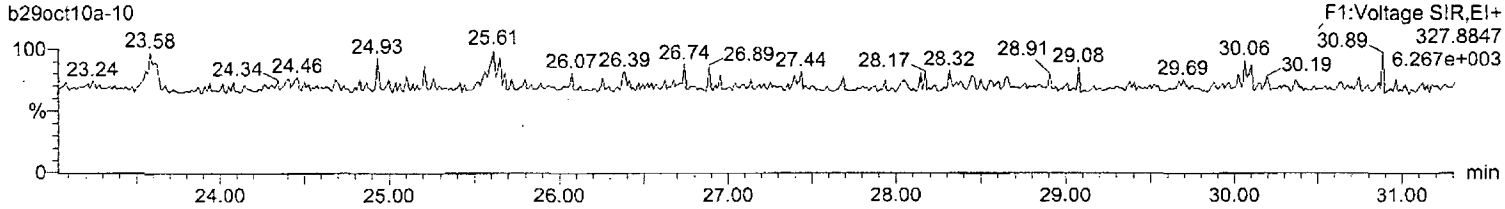
13C-2378-TCDD



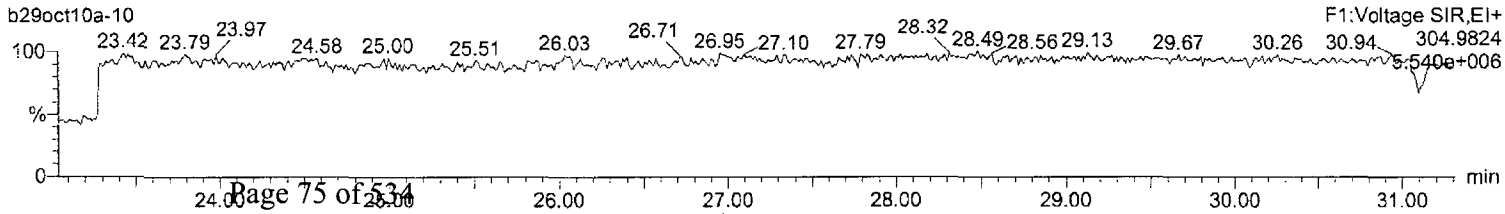
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**ACCU00309**
Lab Sample ID:	**1741013**	**Date Collected:**	**10/13/2010 09:25**	**Matrix:**	**Soil**
Client Sample:	**8290 Soil TCDD**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**11.3**
Client ID:	**JA58750-13**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/30/2010 01:12**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-11**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**12.08 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.132	pg/g	0.132	0.934

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		134	187	pg/g	71.8	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:50:44 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:51:55 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-11, Date: 30-Oct-2010, Time: 01:12:28, ID: 1741013-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0705		696			756		
2	12378-PeCDD							NO		0.0338		1004			669		
3	123478-HxCDD							NO		0.0522		783			874		
4	123678-HxCDD							NO		0.0445		783			874		
5	123789-HxCDD							NO		0.0489		783			874		
6	1234678-HpCDD	1.95e2	2.65e2	4.60e2	38.55	1.001	0.74	YES	0.095	0.0363	4.72e3	471	10.0	7.49e3	401	18.6	bb
7	OCDD	3.60e3	4.15e3	7.76e3	42.19	1.000	0.87	NO	1.924	0.128	4.13e4	1394	29.6	5.11e4	552	92.6	bd
8	2378-TCDF	7.62e2	8.09e2	1.57e3	28.43	1.000	0.94	YES	0.131	0.0474	9.27e3	886	10.5	7.56e3	1066	7.1	bb
9	12378-PeCDF							NO		0.0274		803			1333		
10	23478-PeCDF	1.74e2	6.37e1	2.38e2	33.01	1.018	2.73	YES	0.024	0.0270	4.58e3	803	5.7	2.12e3	1333	1.6	bb
11	123478-HxCDF							NO		0.0263		721			505		
12	123678-HxCDF							NO		0.0212		721			505		
13	234678-HxCDF							NO		0.0236		721			505		
14	123789-HxCDF							NO		0.0291		721			505		
15	1234678-HpCDF							NO		0.0239		593			393		
16	1234789-HpCDF							NO		0.0314		593			393		
17	OCDF							NO		0.0610		496			632		
18	13C-2378-TCDD	2.95e5	3.75e5	6.70e5	29.34	1.025	0.79	NO	71.843	0.123	2.95e6	2325	1267.5	3.73e6	1745	2136.4	bb
19	13C-12378-PeCDD	4.01e5	2.60e5	6.60e5	33.17	1.159	1.54	NO	94.079	0.138	9.10e6	1995	4560.5	6.00e6	1424	4213.8	bb
20	13C-123678-HxCDD	3.62e5	2.83e5	6.46e5	35.63	0.994	1.28	NO	79.981	0.132	6.82e6	3636	1876.9	5.50e6	2546	2159.1	bd
21	13C-1234678-HpCDD	2.56e5	2.38e5	4.94e5	38.53	1.075	1.07	NO	88.743	0.211	3.79e6	2930	1293.7	3.55e6	3894	911.3	bd
22	13C-OCDD	3.84e5	4.38e5	8.22e5	42.18	1.177	0.88	NO	169.523	0.176	4.33e6	2780	1556.7	4.85e6	2180	2224.4	bb
23	13C-2378-TCDF	5.67e5	7.08e5	1.27e6	28.42	0.993	0.80	NO	87.743	0.0736	5.86e6	1785	3282.0	7.47e6	2004	3724.2	bb
24	13C-12378-PeCDF	6.71e5	4.26e5	1.10e6	32.41	1.132	1.57	NO	92.025	0.152	1.61e7	3104	5196.0	1.03e7	3328	3080.5	bd
25	13C-123678-HxCDF	2.84e5	5.37e5	8.21e5	34.98	0.976	0.53	NO	75.552	0.120	5.73e6	2488	2303.5	1.08e7	5091	2121.8	bb
26	13C-1234678-HpCDF	1.78e5	3.99e5	5.77e5	37.42	1.044	0.45	NO	81.349	0.130	3.03e6	1878	1611.9	6.50e6	3498	1857.6	bd
27	13C-1234-TCDD	3.72e5	4.71e5	8.43e5	28.63	0.000	0.79	NO	100.000	0.136	3.95e6	2325	1699.4	4.93e6	1745	2825.1	bb
28	13C-123789-HxCDD	4.20e5	3.18e5	7.38e5	35.83	0.000	1.32	NO	100.000	0.144	7.33e6	3636	2016.7	5.82e6	2546	2285.4	dd
29	37Cl-2378-TCDD (SS)									0.0274		624					
30	13C-23478-PeCDF (SS)							NO		0.0772		3104			3328		

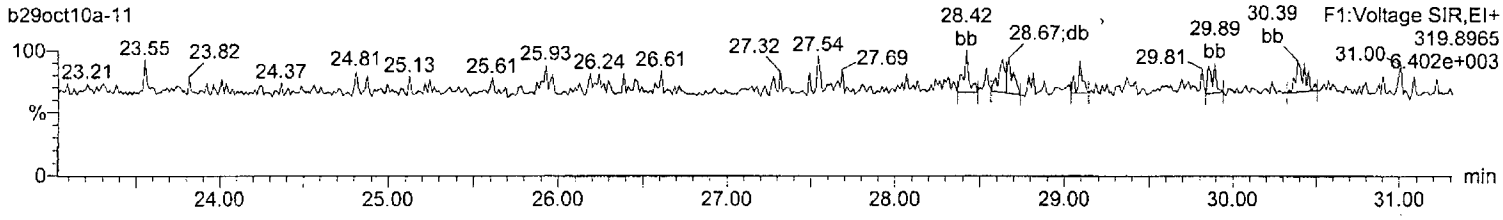
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

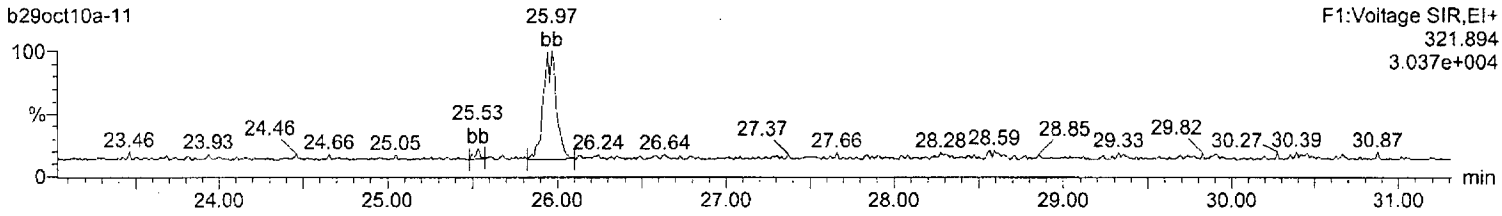
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-11, Date: 30-Oct-2010, Time: 01:12:28, ID: 1741013-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

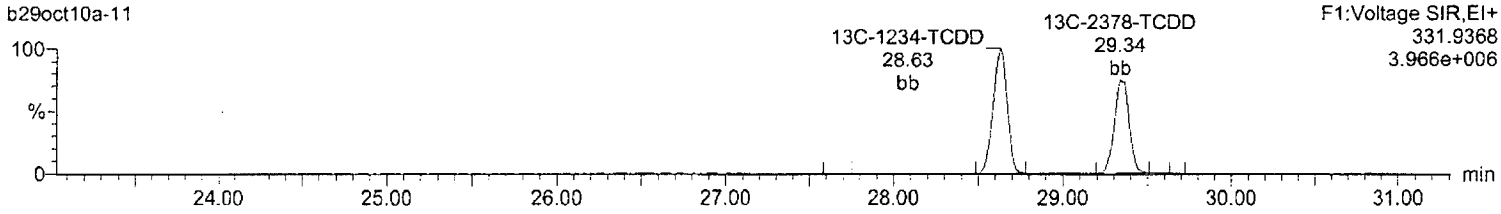
Total-tetradioxins



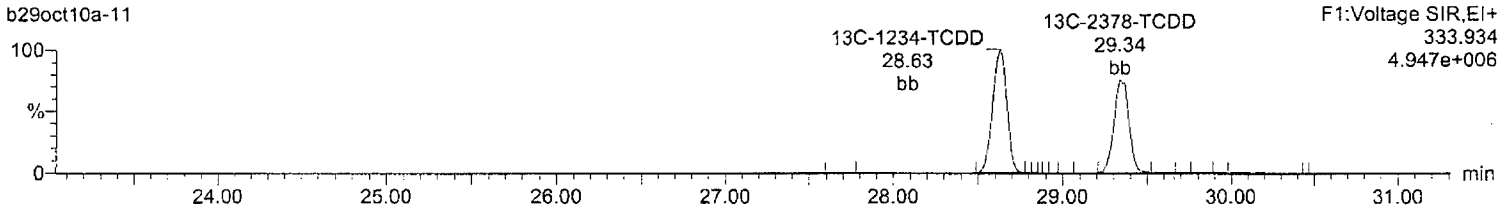
Total-tetradioxins



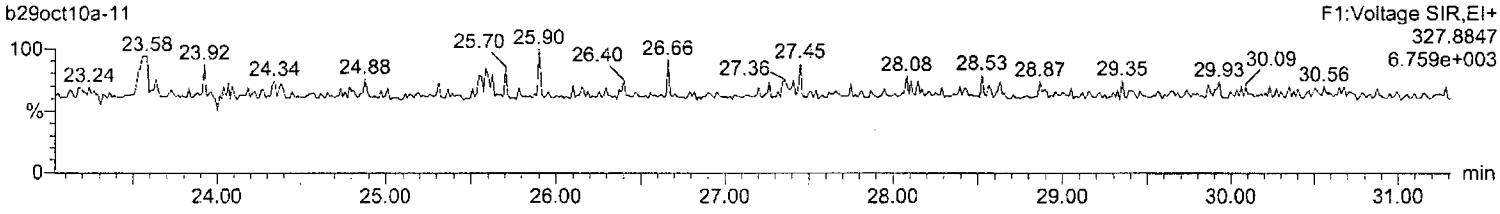
13C-2378-TCDD



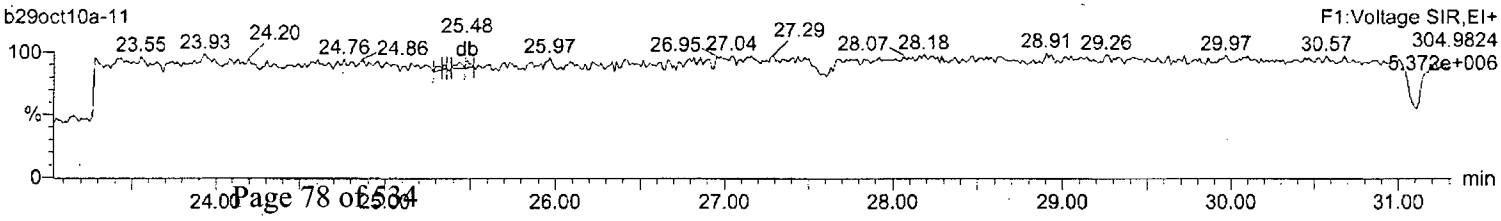
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741014	**Date Collected:**	10/13/2010 10:01	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	21.9
Client ID:	JA58750-14			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 01:58	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-12			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	13.25 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.122	pg/g	0.122	0.966

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		126	193	pg/g	65.2	(40%-135%)

Comments:

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for , but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:52:38 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:52:47 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-12, Date: 30-Oct-2010, Time: 01:58:29, ID: 1741014-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0630		662			749		
2	12378-PeCDD							NO		0.0316		846			688		
3	123478-HxCDD							NO		0.0457		647			823		
4	123678-HxCDD							NO		0.0390		647			823		
5	123789-HxCDD							NO		0.0428		647			823		
6	1234678-HpCDD	5.15e1	8.61e1	1.38e2	38.54	1.000	0.60	YES	0.031	0.0585	2.31e3	638	3.6	2.87e3	656	4.4	bd
7	OCDD	1.11e3	1.37e3	2.48e3	42.20	1.000	0.81	NO	0.762	0.152	1.58e4	368	42.8	1.84e4	1563	11.8	bb
8	2378-TCDF	1.42e3	1.63e3	3.05e3	28.47	1.001	0.88	NO	0.248	0.0492	1.42e4	1002	14.2	1.88e4	1146	16.4	bb
9	12378-PeCDF	8.05e1	5.27e1	1.33e2	32.45	1.001	1.53	NO	0.014	0.0302	2.71e3	967	2.8	2.87e3	1261	2.3	bb
10	23478-PeCDF							NO		0.0298		967			1261		
11	123478-HxCDF							NO		0.0249		572			634		
12	123678-HxCDF							NO		0.0201		572			634		
13	234678-HxCDF							NO		0.0224		572			634		
14	123789-HxCDF							NO		0.0276		572			634		
15	1234678-HpCDF							NO		0.0240		460			505		
16	1234789-HpCDF							NO		0.0315		460			505		
17	OCDF	8.45e1	5.39e1	1.38e2	42.46	1.006	1.57	YES	0.035	0.0626	2.69e3	435	6.2	1.00e3	534	1.9	bb
18	13C-2378-TCDD	2.98e5	3.71e5	6.69e5	29.36	1.025	0.80	NO	65.218	0.0928	3.24e6	2104	1540.1	4.09e6	1356	3020.4	bd
19	13C-12378-PeCDD	3.92e5	2.53e5	6.45e5	33.18	1.158	1.55	NO	83.587	0.131	8.94e6	1873	4772.9	5.59e6	1800	3106.5	bb
20	13C-123678-HxCDD	3.40e5	2.68e5	6.08e5	35.64	0.994	1.27	NO	76.501	0.137	6.89e6	3431	2006.9	5.47e6	3224	1696.1	bb
21	13C-1234678-HpCDD	2.31e5	2.17e5	4.48e5	38.55	1.075	1.06	NO	81.778	0.143	3.47e6	2840	1221.8	3.31e6	1959	1689.6	bb
22	13C-OCDD	3.14e5	3.49e5	6.64e5	42.20	1.177	0.90	NO	139.045	0.151	3.67e6	2146	1712.4	3.96e6	2269	1745.7	bd
23	13C-2378-TCDF	5.78e5	7.30e5	1.31e6	28.45	0.993	0.79	NO	81.923	0.0590	6.17e6	1888	3267.2	7.89e6	1536	5138.7	bb
24	13C-12378-PeCDF	6.55e5	4.11e5	1.07e6	32.42	1.131	1.59	NO	81.328	0.114	1.53e7	3243	4729.7	9.82e6	2195	4474.8	bd
25	13C-123678-HxCDF	2.69e5	5.33e5	8.02e5	35.00	0.977	0.50	NO	74.935	0.0857	5.77e6	2863	2013.8	1.09e7	2764	3934.0	bb
26	13C-1234678-HpCDF	1.70e5	3.81e5	5.51e5	37.44	1.045	0.44	NO	78.909	0.116	2.95e6	2026	1454.7	6.45e6	2935	2197.1	bd
27	13C-1234-TCDD	4.09e5	5.17e5	9.26e5	28.66	0.000	0.79	NO	100.000	0.103	4.46e6	2104	2119.7	5.62e6	1356	4144.0	bb
28	13C-123789-HxCDD	4.09e5	3.17e5	7.26e5	35.84	0.000	1.29	NO	100.000	0.149	7.53e6	3431	2194.0	5.91e6	3224	1832.7	bb
29	37Cl-2378-TCDD (SS)									0.0216		534					
30	13C-23478-PeCDF (SS)							NO		0.0690		3243			2195		

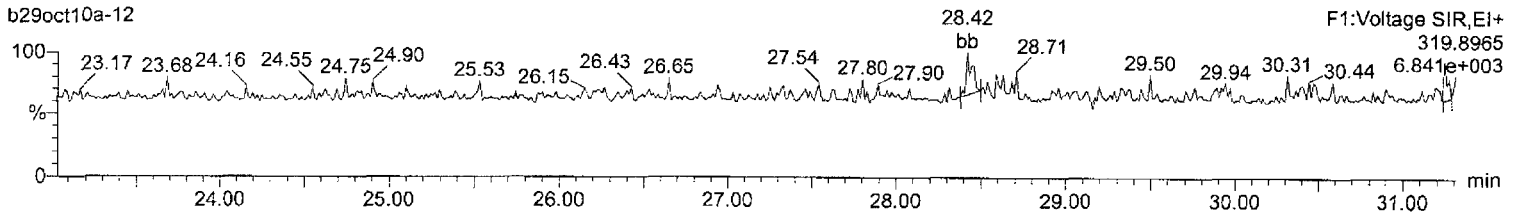
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

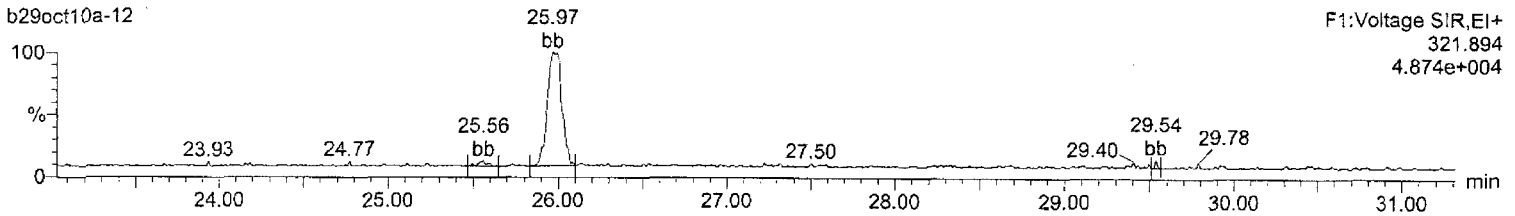
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-12, Date: 30-Oct-2010, Time: 01:58:29, ID: 1741014-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

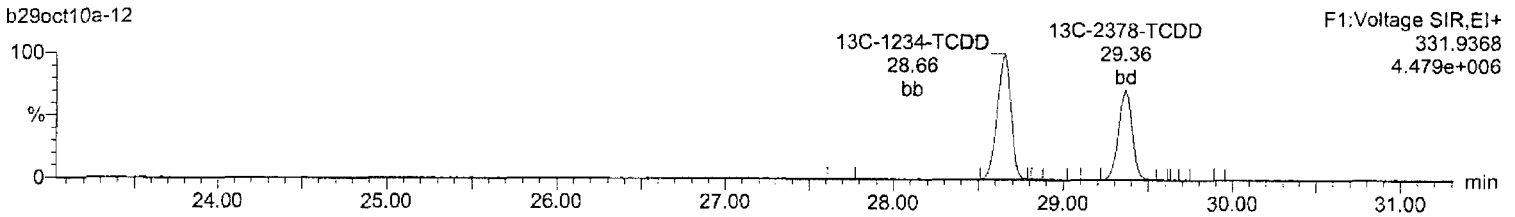
Total-tetradioxins



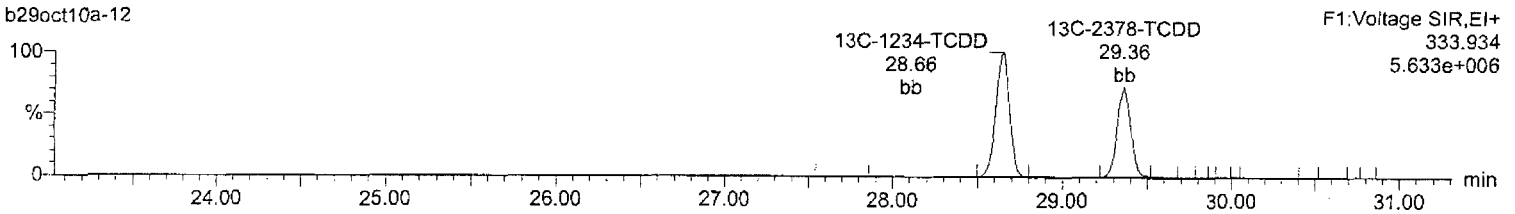
Total-tetradioxins



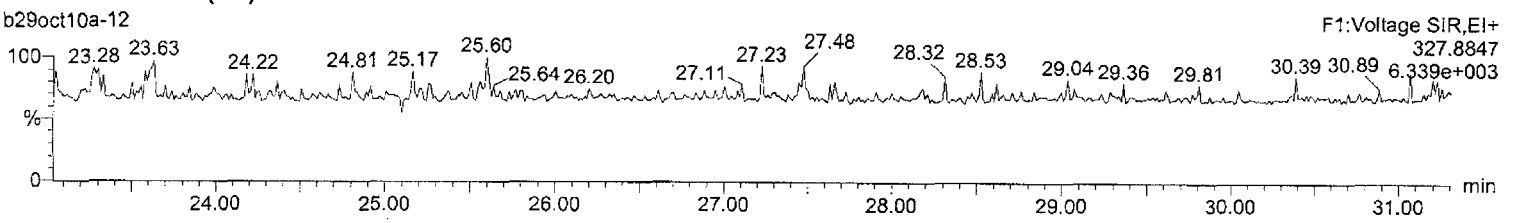
13C-2378-TCDD



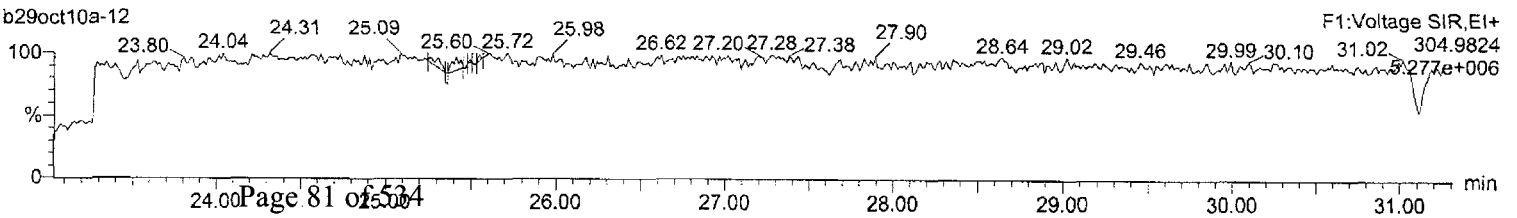
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741015	**Date Collected:**	10/13/2010 10:25	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	22.3
Client ID:	JA58750-15			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 02:44	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-13			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.25 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.12	pg/g	0.120	0.903

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		124	181	pg/g	68.7	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:53:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:55:36 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-13, Date: 30-Oct-2010, Time: 02:44:29, ID: 1741015-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0664		657			789		
2	12378-PeCDD							NO		0.0276		787			562		
3	123478-HxCDD							NO		0.0492		739			787		
4	123678-HxCDD							NO		0.0419		739			787		
5	123789-HxCDD							NO		0.0461		739			787		
6	1234678-HpCDD	1.12e2	1.57e2	2.68e2	38.56	1.001	0.71	YES	0.059	0.0539	2.64e3	703	3.7	3.69e3	523	7.1	bb
7	OCDD	2.11e3	2.61e3	4.72e3	42.21	1.000	0.81	NO	1.376	0.114	2.90e4	803	36.1	3.76e4	653	57.5	bb
8	2378-TCDF	1.18e3	1.86e3	3.04e3	28.43	1.000	0.64	YES	0.251	0.0469	1.19e4	837	14.3	1.93e4	1158	16.7	bb
9	12378-PeCDF							NO		0.0260		898			1080		
10	23478-PeCDF							NO		0.0257		898			1080		
11	123478-HxCDF							NO		0.0278		670			580		
12	123678-HxCDF							NO		0.0224		670			580		
13	234678-HxCDF							NO		0.0249		670			580		
14	123789-HxCDF							NO		0.0308		670			580		
15	1234678-HpCDF							NO		0.0273		423			620		
16	1234789-HpCDF							NO		0.0358		423			620		
17	OCDF							NO		0.0753		501			668		
18	13C-2378-TCDD	3.03e5	3.88e5	6.90e5	29.35	1.025	0.78	NO	68.669	0.0944	3.10e6	1975	1569.4	3.97e6	1373	2892.9	bb
19	13C-12378-PeCDD	4.15e5	2.58e5	6.73e5	33.18	1.158	1.61	NO	89.032	0.174	9.11e6	2136	4266.0	5.91e6	2520	2343.8	bd
20	13C-123678-HxCDD	3.63e5	2.78e5	6.42e5	35.64	0.994	1.30	NO	82.400	0.155	6.73e6	2652	2538.4	5.37e6	4300	1249.8	bd
21	13C-1234678-HpCDD	2.38e5	2.26e5	4.64e5	38.54	1.075	1.05	NO	86.459	0.172	3.55e6	2571	1380.9	3.44e6	2747	1251.2	bb
22	13C-OCDD	3.36e5	3.63e5	7.00e5	42.19	1.177	0.93	NO	149.545	0.225	3.75e6	2515	1489.2	4.21e6	3556	1183.6	bd
23	13C-2378-TCDF	5.72e5	7.20e5	1.29e6	28.42	0.992	0.79	NO	82.552	0.0592	6.02e6	1735	3472.0	7.58e6	1536	4937.0	bb
24	13C-12378-PeCDF	6.59e5	4.19e5	1.08e6	32.42	1.132	1.57	NO	83.922	0.124	1.57e7	3258	4820.7	9.96e6	2349	4239.6	bd
25	13C-123678-HxCDF	2.71e5	5.16e5	7.87e5	34.99	0.976	0.52	NO	75.016	0.0901	5.50e6	2082	2640.4	1.03e7	3378	3057.3	bb
26	13C-1234678-HpCDF	1.59e5	3.63e5	5.21e5	37.43	1.044	0.44	NO	76.159	0.119	2.77e6	1761	1570.9	6.24e6	2959	2108.8	bb
27	13C-1234-TCDD	4.01e5	5.07e5	9.08e5	28.64	0.000	0.79	NO	100.000	0.105	4.24e6	1975	2148.9	5.37e6	1373	3909.7	bb
28	13C-123789-HxCDD	4.09e5	3.03e5	7.12e5	35.84	0.000	1.35	NO	100.000	0.169	7.09e6	2652	2671.9	5.52e6	4300	1282.7	dd
29	37Cl-2378-TCDD (SS)									0.0240		577					
30	13C-23478-PeCDF (SS)							NO		0.0691		3258			2349		

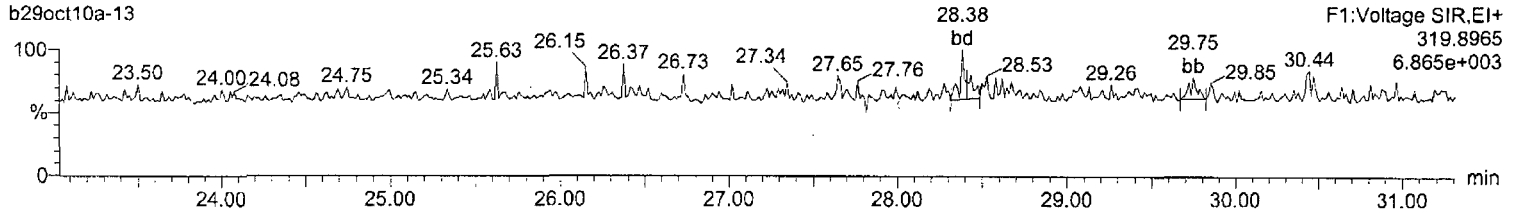
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

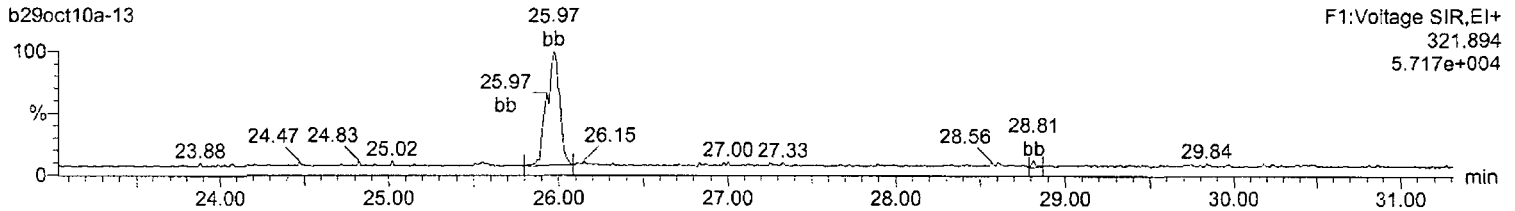
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-13, Date: 30-Oct-2010, Time: 02:44:29, ID: 1741015-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

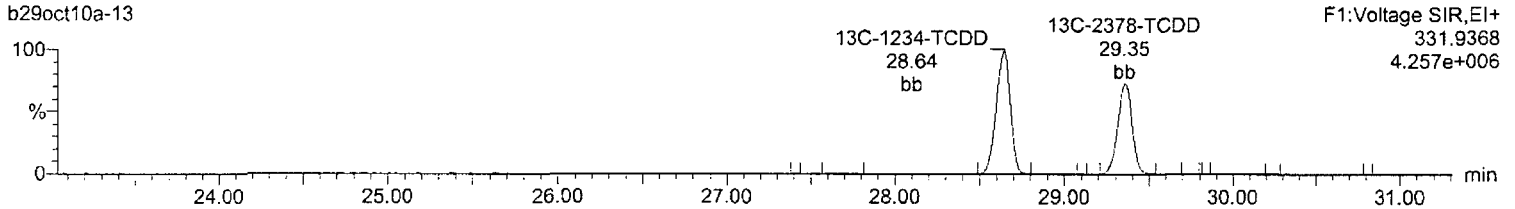
Total-tetradioxins



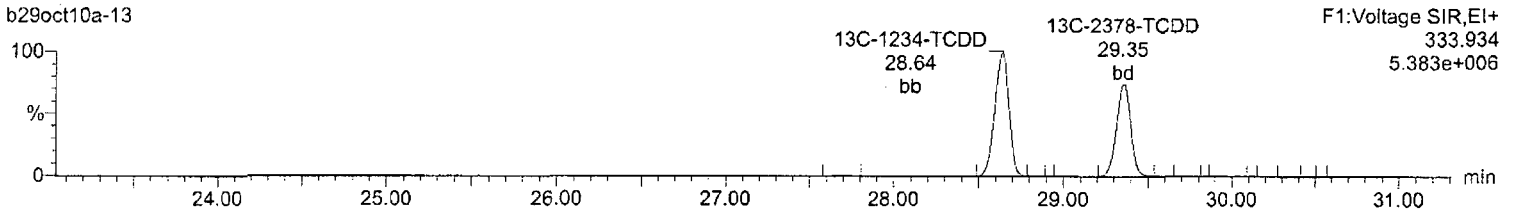
Total-tetradioxins



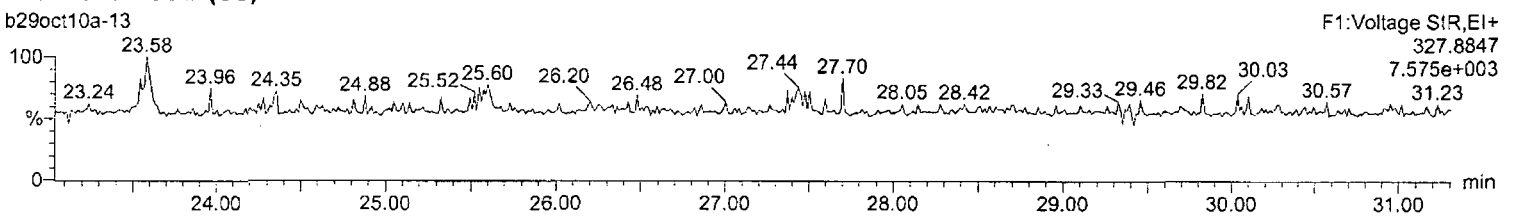
13C-2378-TCDD



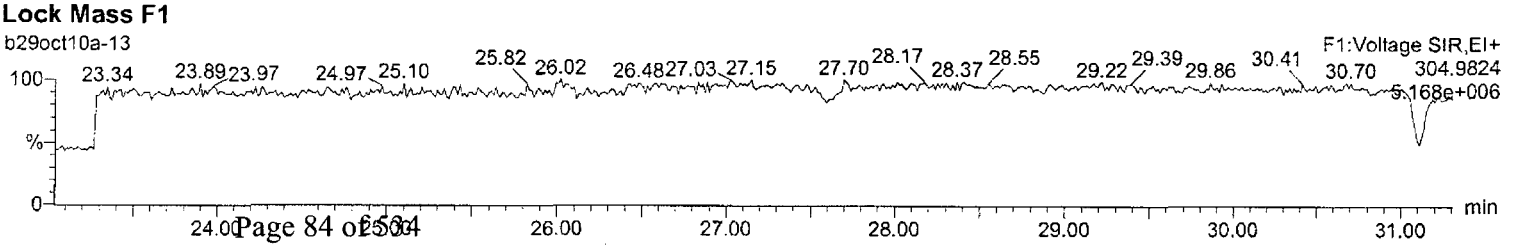
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741016	**Date Collected:**	10/13/2010 11:15	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	28
Client ID:	JA58750-16			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/30/2010 03:30	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-14			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.72 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.137	pg/g	0.137	0.943

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		145	189	pg/g	76.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:58:05 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:58:16 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-14, Date: 30-Oct-2010, Time: 03:30:30, ID: 1741016-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0726		773			1067		
2	12378-PeCDD							NO		0.0471		1587			1123		
3	123478-HxCDD							NO		0.0768		1425			1382		
4	123678-HxCDD	1.78e2	1.62e2	3.39e2	35.65	1.000	1.10	NO	0.050	0.0656	5.35e3	1425	3.8	3.86e3	1382	2.8	bb
5	123789-HxCDD							NO		0.0720		1425			1382		
6	1234678-HpCDD	1.66e3	1.80e3	3.45e3	38.55	1.000	0.92	NO	0.583	0.0680	2.68e4	872	30.7	2.89e4	1171	24.6	bb
7	OCDD	1.38e4	1.48e4	2.85e4	42.20	1.000	0.93	NO	6.021	0.133	1.59e5	1368	116.3	1.86e5	972	191.7	bd
8	2378-TCDF	1.81e3	1.91e3	3.72e3	28.45	1.000	0.95	YES	0.286	0.0692	1.69e4	1480	11.4	2.08e4	1650	12.6	bb
9	12378-PeCDF	2.14e2	1.32e2	3.46e2	32.43	1.000	1.62	NO	0.031	0.0368	5.17e3	1864	2.8	3.20e3	1407	2.3	bd
10	23478-PeCDF	3.40e2	1.93e2	5.33e2	33.02	1.018	1.76	NO	0.047	0.0363	7.94e3	1864	4.3	4.08e3	1407	2.9	db
11	123478-HxCDF	6.87e1	8.23e1	1.51e2	34.92	0.998	0.83	YES	0.019	0.0406	1.87e3	1071	1.8	3.28e3	1110	2.9	bb
12	123678-HxCDF							NO		0.0327		1071			1110		
13	234678-HxCDF							NO		0.0364		1071			1110		
14	123789-HxCDF							NO		0.0449		1071			1110		
15	1234678-HpCDF	6.46e2	5.58e2	1.20e3	37.44	1.000	1.16	NO	0.133	0.0238	1.18e4	589	20.1	1.12e4	668	16.8	bb
16	1234789-HpCDF							NO		0.0312		589			668		
17	OCDF	6.44e2	6.12e2	1.26e3	42.46	1.006	1.05	YES	0.217	0.0651	1.06e4	675	15.7	1.13e4	725	15.6	bb
18	13C-2378-TCDD	3.51e5	4.47e5	7.98e5	29.35	1.025	0.78	NO	76.882	0.104	3.61e6	2241	1613.2	4.59e6	1543	2974.2	bb
19	13C-12378-PeCDD	4.63e5	2.91e5	7.54e5	33.18	1.158	1.59	NO	96.585	0.163	1.07e7	2819	3796.2	6.39e6	1628	3925.8	bb
20	13C-123678-HxCDD	4.12e5	3.25e5	7.37e5	35.64	0.994	1.27	NO	81.539	0.131	7.83e6	4803	1629.4	6.10e6	2288	2665.9	bb
21	13C-1234678-HpCDD	3.06e5	2.95e5	6.01e5	38.54	1.075	1.04	NO	96.545	0.179	4.66e6	3830	1216.7	4.54e6	2825	1605.6	bb
22	13C-OCDD	4.58e5	5.08e5	9.66e5	42.19	1.177	0.90	NO	178.059	0.197	5.12e6	2966	1725.1	5.70e6	3429	1663.7	bd
23	13C-2378-TCDF	6.15e5	7.69e5	1.38e6	28.43	0.993	0.80	NO	85.640	0.0622	6.43e6	1307	4922.7	8.24e6	2216	3717.5	bb
24	13C-12378-PeCDF	7.84e5	4.91e5	1.27e6	32.42	1.132	1.60	NO	96.143	0.114	1.85e7	2356	7840.6	1.14e7	2925	3905.9	bd
25	13C-123678-HxCDF	3.26e5	6.25e5	9.50e5	34.99	0.976	0.52	NO	78.124	0.0972	6.54e6	3946	1656.7	1.26e7	3132	4036.4	bb
26	13C-1234678-HpCDF	2.22e5	4.95e5	7.18e5	37.43	1.044	0.45	NO	90.358	0.0834	3.90e6	1853	2102.7	8.59e6	2113	4064.2	bb
27	13C-1234-TCDD	4.14e5	5.23e5	9.37e5	28.64	0.000	0.79	NO	100.000	0.115	4.35e6	2241	1942.8	5.44e6	1543	3526.3	bb
28	13C-123789-HxCDD	4.64e5	3.61e5	8.26e5	35.84	0.000	1.29	NO	100.000	0.143	8.34e6	4803	1735.8	6.55e6	2288	2863.1	bd
29	37Cl-2378-TCDD (SS)									0.0316		885					
30	13C-23478-PeCDF (SS)							NO		0.0557		2356			2925		

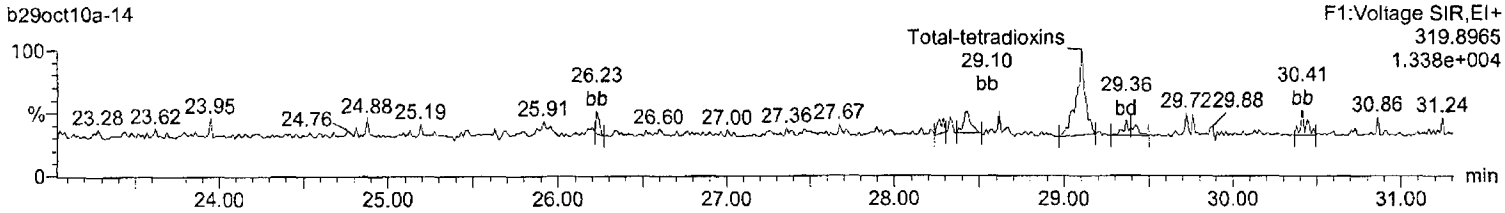
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

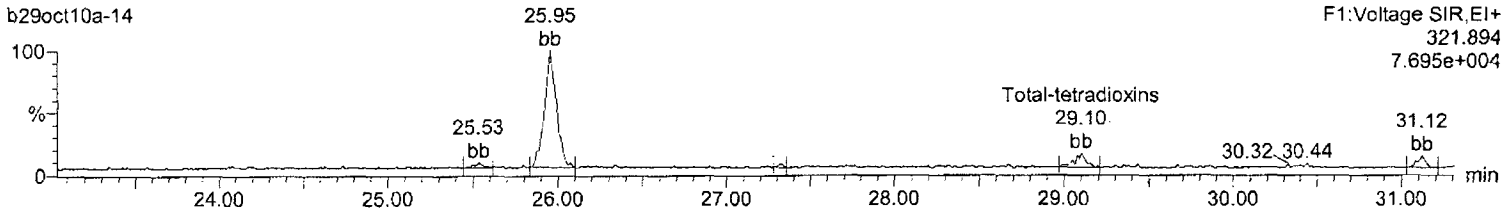
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-14, Date: 30-Oct-2010, Time: 03:30:30, ID: 1741016-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

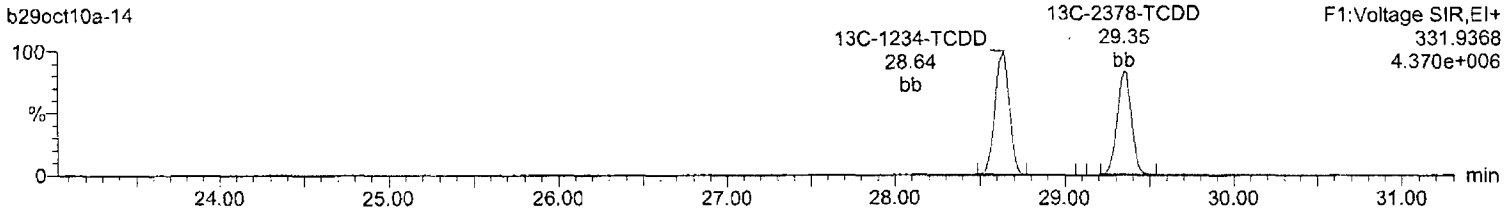
Total-tetradioxins



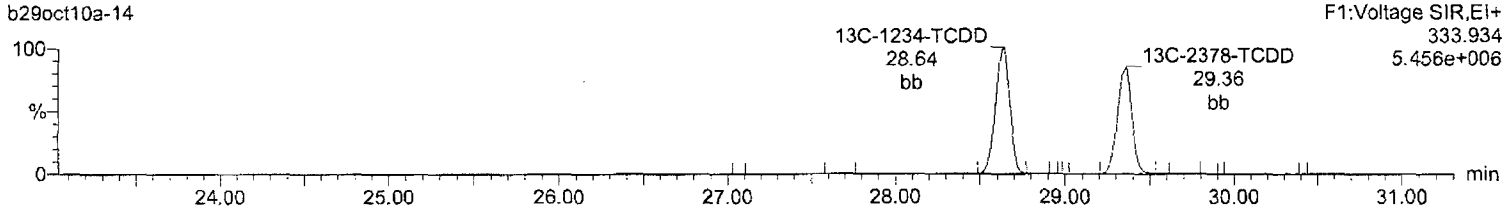
Total-tetradioxins



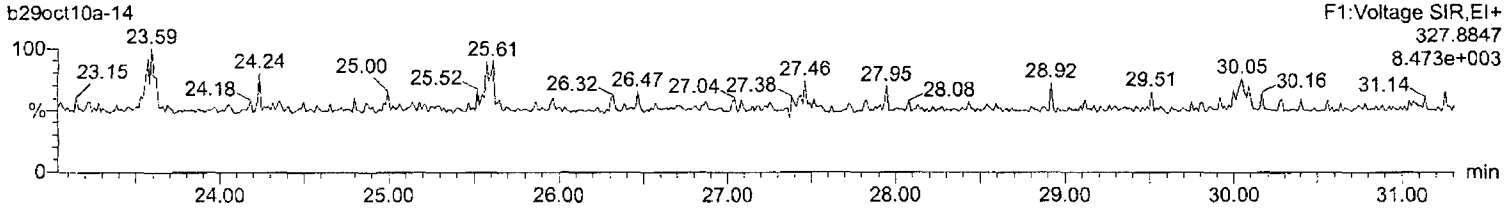
13C-2378-TCDD



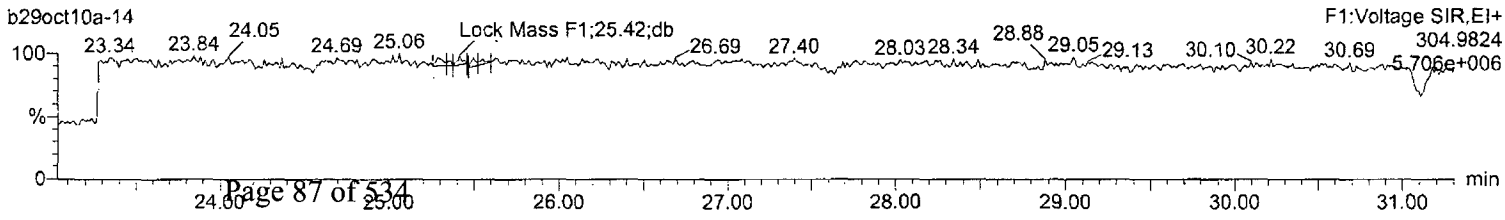
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741017	**Date Collected:**	10/13/2010 11:58	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	28.7
Client ID:	JA58750-17			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	11/04/2010 00:01	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b03nov10a_2-11			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	14.71 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.0776	pg/g	0.0776	0.954

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		135	191	pg/g	70.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b03nov10a_2.qld

Last Altered: Thursday, November 04, 2010 10:17:51 Eastern Standard Time
Printed: Thursday, November 04, 2010 10:18:01 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-11, Date: 04-Nov-2010, Time: 00:01:00, ID: 1741017-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0407		844			1004		
2	12378-PeCDD							NO		0.0304		869			733		
3	123478-HxCDD							NO		0.0420		719			802		
4	123678-HxCDD							NO		0.0389		719			802		
5	123789-HxCDD							NO		0.0435		719			802		
6	1234678-HpCDD	1.77e2	2.30e2	4.07e2	40.76	1.000	0.77	YES	0.075	0.0480	3.60e3	694	5.2	5.67e3	482	11.8	bb
7	OCDD	2.49e3	2.48e3	4.97e3	45.17	1.000	1.01	NO	1.166	0.252	3.30e4	2441	13.5	2.62e4	1115	23.5	bd
8	2378-TCDF	1.26e3	1.74e3	3.00e3	31.22	1.000	0.73	NO	0.231	0.0355	1.84e4	1169	15.7	2.73e4	1351	20.2	bb
9	12378-PeCDF							NO		0.0334		1171			1616		
10	23478-PeCDF	1.44e2	1.11e2	2.55e2	34.35	1.019	1.30	YES	0.024	0.0341	3.56e3	1171	3.0	3.42e3	1616	2.1	bb
11	123478-HxCDF							NO		0.0259		771			599		
12	123678-HxCDF							NO		0.0223		771			599		
13	234678-HxCDF							NO		0.0246		771			599		
14	123789-HxCDF							NO		0.0297		771			599		
15	1234678-HpCDF							NO		0.0335		711			674		
16	1234789-HpCDF							NO		0.0460		711			674		
17	OCDF							NO		0.0667		519			647		
18	13C-2378-TCDD	3.05e5	3.83e5	6.88e5	31.73	1.013	0.80	NO	70.891	0.0672	5.97e6	2350	2537.8	7.39e6	1646	4491.6	bb
19	13C-12378-PeCDD	4.29e5	2.74e5	7.03e5	34.54	1.102	1.56	NO	85.346	0.133	9.36e6	2998	3123.0	5.96e6	3696	1612.5	bb
20	13C-123678-HxCDD	3.70e5	2.88e5	6.59e5	37.31	0.993	1.28	NO	79.505	0.138	6.82e6	3797	1795.5	5.26e6	2675	1965.6	bb
21	13C-1234678-HpCDD	2.76e5	2.66e5	5.42e5	40.74	1.085	1.04	NO	90.853	0.204	3.73e6	3198	1167.0	3.52e6	3699	951.3	bb
22	13C-OCDD	4.05e5	4.52e5	8.57e5	45.16	1.202	0.90	NO	172.034	0.257	4.02e6	3864	1039.9	4.45e6	3389	1312.5	bd
23	13C-2378-TCDF	5.83e5	7.38e5	1.32e6	31.21	0.996	0.79	NO	83.734	0.0377	9.56e6	1968	4858.2	1.22e7	1681	7246.0	bb
24	13C-12378-PeCDF	7.26e5	4.59e5	1.19e6	33.71	1.076	1.58	NO	80.824	0.0612	1.64e7	2469	6655.8	1.03e7	3028	3409.8	bd
25	13C-123678-HxCDF	3.14e5	5.96e5	9.10e5	36.58	0.974	0.53	NO	74.900	0.0767	6.02e6	3041	1979.7	1.15e7	2233	5155.1	bb
26	13C-1234678-HpCDF	1.99e5	4.34e5	6.33e5	39.43	1.050	0.46	NO	78.544	0.173	3.05e6	1865	1635.6	6.81e6	6020	1131.5	bd
27	13C-1234-TCDD	3.83e5	4.83e5	8.67e5	31.34	0.000	0.79	NO	100.000	0.0753	7.05e6	2350	2997.3	8.72e6	1646	5295.9	bb
28	13C-123789-HxCDD	4.17e5	3.28e5	7.45e5	37.56	0.000	1.27	NO	100.000	0.153	7.08e6	3797	1864.3	5.49e6	2675	2052.1	bd
29	37Cl-2378-TCDD (SS)									0.0188		892					
30	13C-23478-PeCDF (SS)							NO		0.0659		2469			3028		

Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

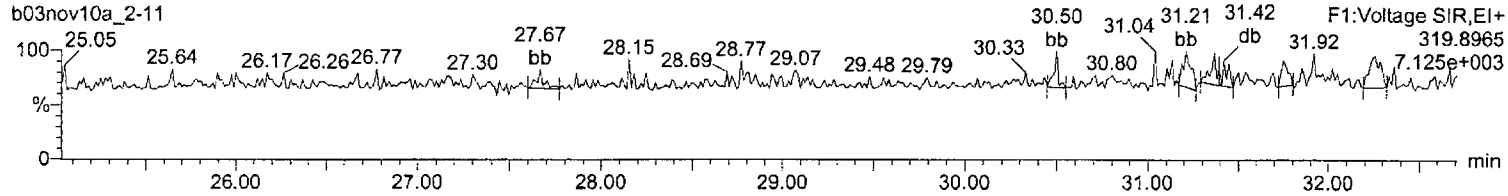
Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b03nov10a_2.qld

Last Altered: Thursday, November 04, 2010 10:06:04 Eastern Standard Time
Printed: Thursday, November 04, 2010 10:17:17 Eastern Standard Time

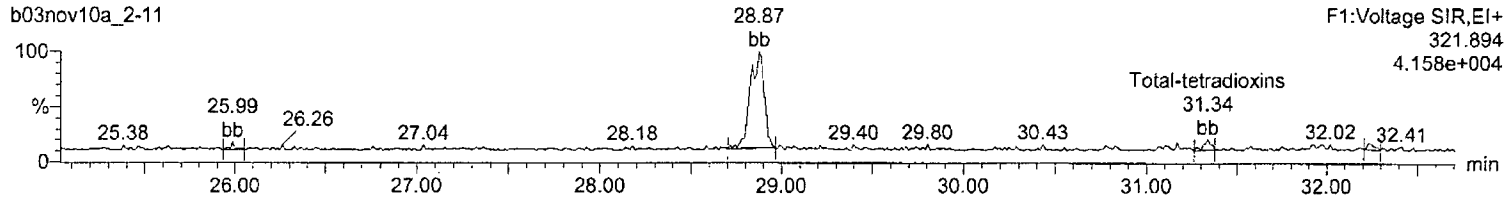
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-11, Date: 04-Nov-2010, Time: 00:01:00, ID: 1741017-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

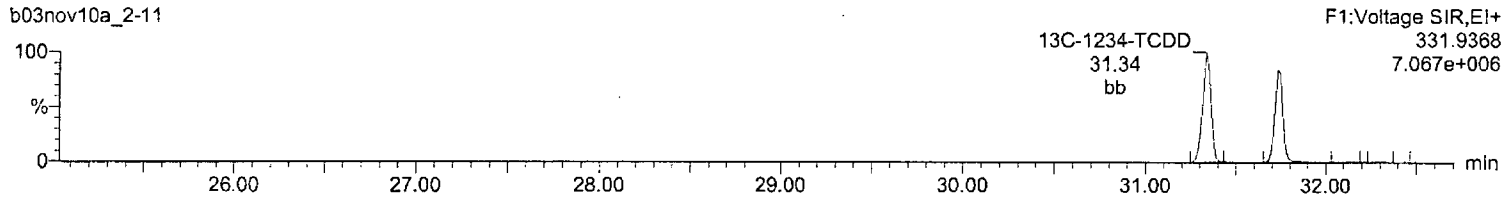
Total-tetradioxins



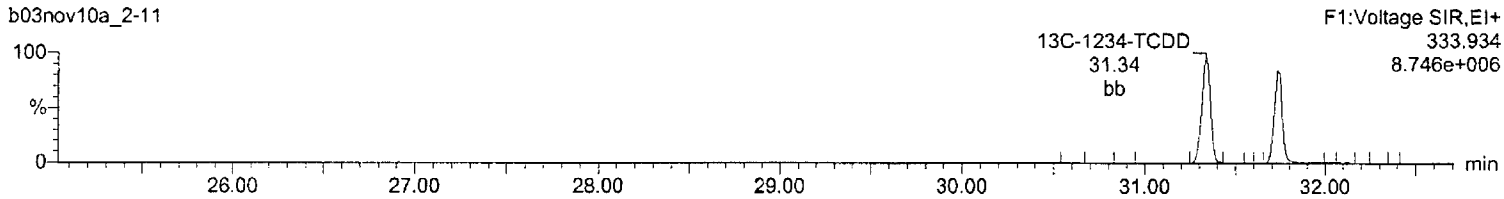
Total-tetradioxins



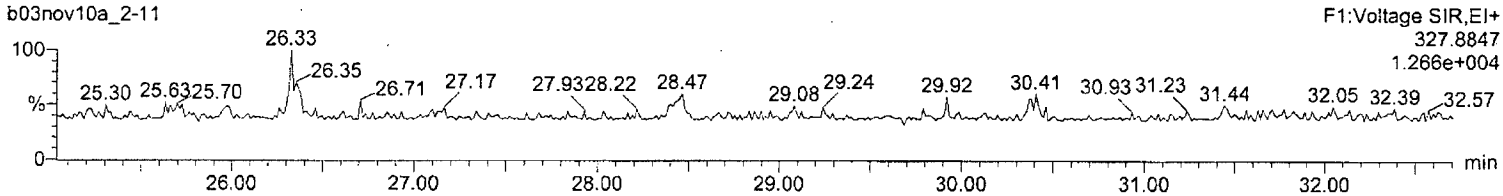
13C-2378-TCDD



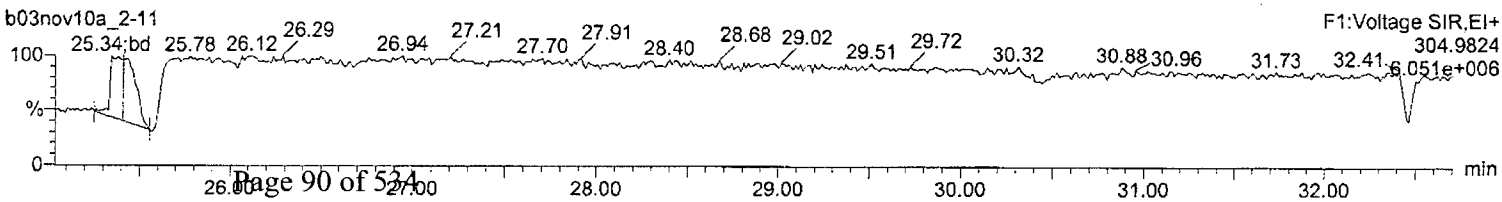
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	ACCU00309
Lab Sample ID:	1741018	**Date Collected:**	10/13/2010 11:15	**Matrix:**	Soil
Client Sample:	8290 Soil TCDD	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.1
Client ID:	JA58750-18			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	11/04/2010 00:49	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b03nov10a_2-12			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.6 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.0496	pg/g	0.0496	0.993

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		157	199	pg/g	79.1	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b03nov10a_2.qld

Last Altered: Thursday, November 04, 2010 10:19:26 Eastern Standard Time
Printed: Thursday, November 04, 2010 10:20:18 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-12, Date: 04-Nov-2010, Time: 00:49:25, ID: 1741018-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.80e1	9.48e1	1.93e2	31.73	1.000	1.03	YES	0.016	0.0250	2.65e3	1055	2.5	2.25e3	1017	2.2	bb
2	12378-PeCDD							NO		0.0275		1208			1036		
3	123478-HxCDD	1.97e2	1.50e2	3.47e2	37.29	0.999	1.31	NO	0.035	0.0358	3.47e3	1099	3.2	3.26e3	1032	3.2	bb
4	123678-HxCDD							NO		0.0331		1099			1032		
5	123789-HxCDD	9.56e1	1.51e2	2.46e2	37.56	1.007	0.63	YES	0.026	0.0371	2.83e3	1099	2.6	2.17e3	1032	2.1	bb
6	1234678-HpCDD	1.67e3	1.53e3	3.20e3	40.75	1.000	1.09	NO	0.350	0.0321	2.25e4	602	37.5	2.44e4	683	35.7	bb
7	OCDD	1.11e4	1.19e4	2.31e4	45.18	1.000	0.93	NO	3.156	0.0861	1.18e5	715	165.2	1.37e5	1394	98.5	bb
8	2378-TCDF	2.07e3	2.36e3	4.42e3	31.21	1.000	0.88	NO	0.218	0.0258	2.89e4	1222	23.6	3.48e4	1554	22.4	dd
9	12378-PeCDF	5.00e2	4.04e2	9.04e2	33.72	1.001	1.24	YES	0.053	0.0397	1.10e4	2832	3.9	5.36e3	2145	2.5	db
10	23478-PeCDF	5.99e2	6.29e2	1.23e3	34.35	1.019	0.95	YES	0.074	0.0406	1.26e4	2832	4.4	1.51e4	2145	7.0	bb
11	123478-HxCDF	7.57e2	7.05e2	1.46e3	36.48	0.997	1.07	NO	0.115	0.0303	1.39e4	1060	13.1	1.40e4	1456	9.6	dd
12	123678-HxCDF	5.97e2	5.61e2	1.16e3	36.60	1.001	1.06	NO	0.078	0.0260	1.50e4	1060	14.2	1.11e4	1456	7.6	db
13	234678-HxCDF	4.02e2	2.77e2	6.78e2	37.10	1.014	1.45	YES	0.051	0.0288	7.65e3	1060	7.2	4.36e3	1456	3.0	bb
14	123789-HxCDF	7.17e1	8.62e1	1.58e2	37.91	1.036	0.83	YES	0.014	0.0347	2.18e3	1060	2.1	2.77e3	1456	1.9	bb
15	1234678-HpCDF	3.41e3	3.75e3	7.16e3	39.44	1.000	0.91	NO	0.519	0.0200	5.66e4	739	76.6	6.21e4	710	87.4	bb
16	1234789-HpCDF	1.33e2	9.97e1	2.33e2	41.46	1.052	1.33	YES	0.023	0.0275	2.01e3	739	2.7	2.80e3	710	3.9	bb
17	OCDF	1.45e3	1.54e3	2.99e3	45.49	1.007	0.95	NO	0.331	0.0645	1.64e4	1132	14.5	2.27e4	822	27.7	bb
18	13C-2378-TCDD	5.14e5	6.58e5	1.17e6	31.73	1.013	0.78	NO	79.060	0.0515	1.08e7	2471	4367.1	1.35e7	1977	6831.6	bb
19	13C-12378-PeCDD	6.76e5	4.26e5	1.10e6	34.54	1.102	1.59	NO	87.629	0.0595	1.46e7	2553	5707.2	9.03e6	1807	4998.1	bb
20	13C-123678-HxCDD	6.15e5	4.79e5	1.09e6	37.31	0.994	1.28	NO	82.542	0.120	1.12e7	4745	2362.2	8.79e6	3974	2211.4	bb
21	13C-1234678-HpCDD	4.66e5	4.42e5	9.09e5	40.73	1.085	1.05	NO	95.189	0.110	6.13e6	2859	2144.0	5.77e6	2890	1998.4	bb
22	13C-OCDD	6.96e5	7.72e5	1.47e6	45.16	1.203	0.90	NO	184.121	0.166	6.99e6	3956	1768.1	7.63e6	3301	2310.0	bd
23	13C-2378-TCDF	9.10e5	1.16e6	2.07e6	31.19	0.995	0.79	NO	85.673	0.0267	1.45e7	1807	8015.1	1.86e7	1937	9612.9	bb
24	13C-12378-PeCDF	1.11e6	7.02e5	1.81e6	33.70	1.075	1.58	NO	80.720	0.0813	2.46e7	6285	3913.2	1.59e7	4317	3680.6	bd
25	13C-123678-HxCDF	4.85e5	9.15e5	1.40e6	36.58	0.974	0.53	NO	71.993	0.0582	9.50e6	2669	3560.0	1.76e7	3548	4963.1	bb
26	13C-1234678-HpCDF	3.32e5	7.48e5	1.08e6	39.43	1.050	0.44	NO	83.736	0.0904	5.22e6	3359	1554.6	1.18e7	3046	3880.8	bb
27	13C-1234-TCDD	5.88e5	7.36e5	1.32e6	31.34	0.000	0.80	NO	100.000	0.0577	1.03e7	2471	4156.1	1.29e7	1977	6532.0	bb
28	13C-123789-HxCDD	6.70e5	5.22e5	1.19e6	37.55	0.000	1.28	NO	100.000	0.133	1.10e7	4745	2328.2	8.92e6	3974	2244.2	bb
29	37Cl-2378-TCDD (SS)									0.0120		1038					MM-
30	13C-23478-PeCDF (SS)							NO		0.0848		6285			4317		

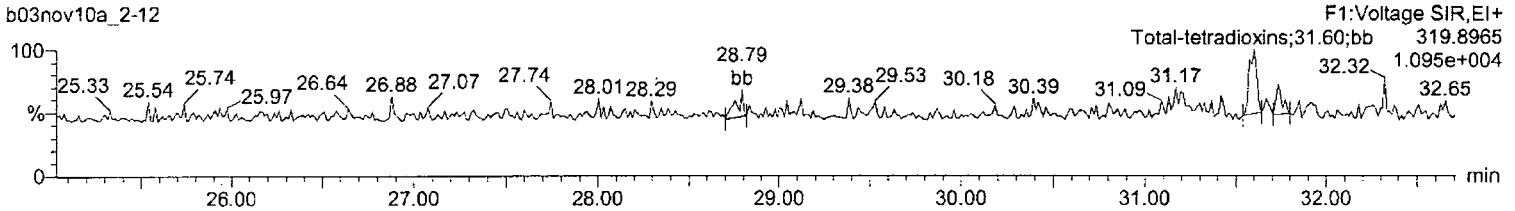
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b03nov10a_2.qld

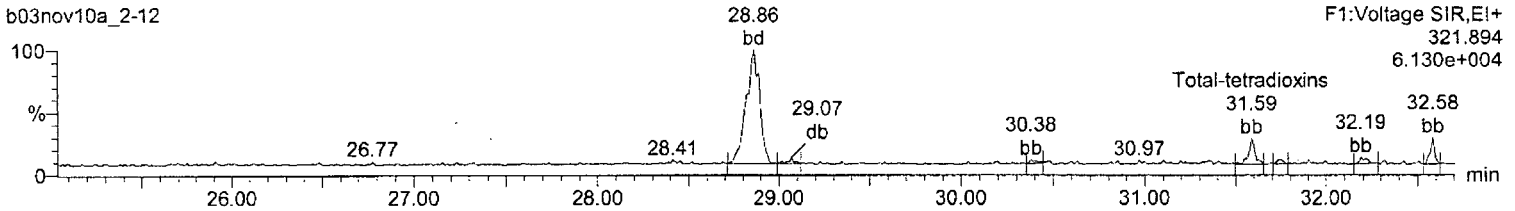
Last Altered: Thursday, November 04, 2010 10:06:04 Eastern Standard Time
Printed: Thursday, November 04, 2010 10:17:17 Eastern Standard Time

Name: b03nov10a_2-12, Date: 04-Nov-2010, Time: 00:49:25, ID: 1741018-1, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

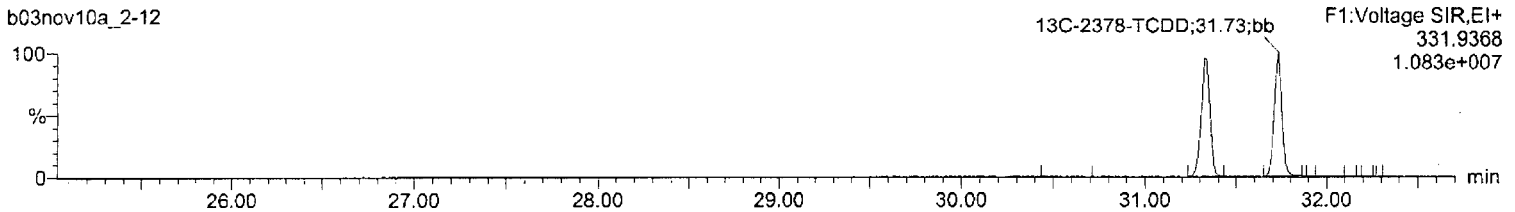
Total-tetradioxins



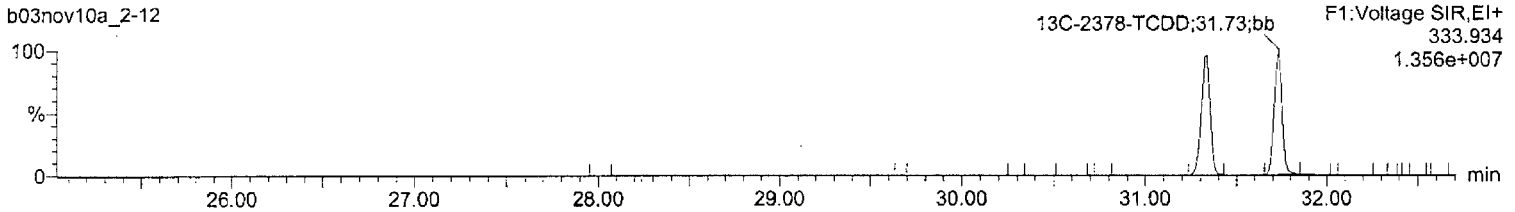
Total-tetradioxins



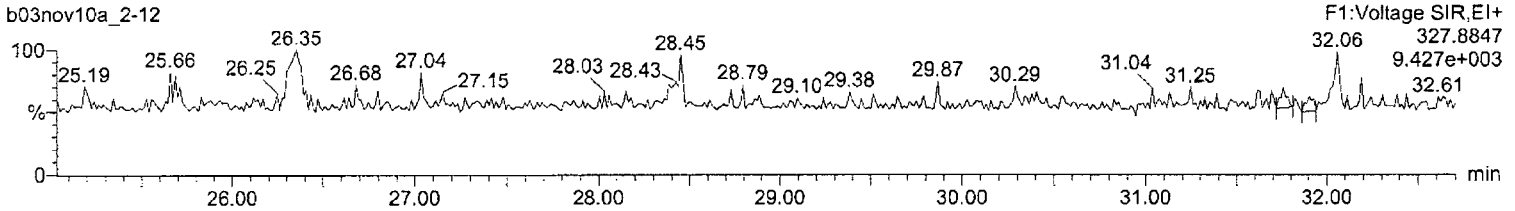
13C-2378-TCDD



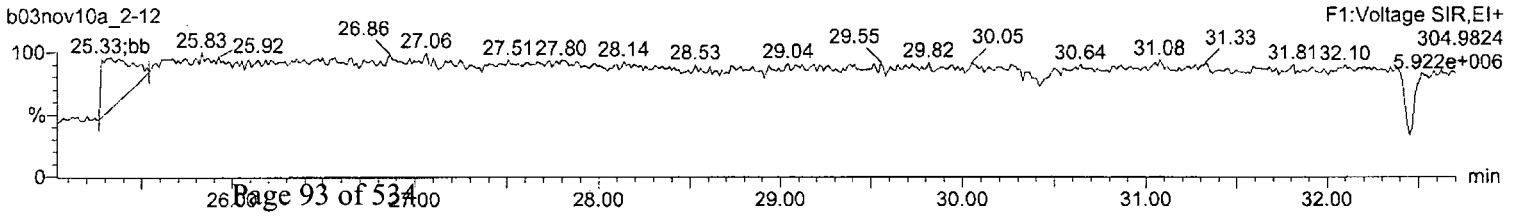
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Quality Control Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**QC**
Lab Sample ID:	**12002001**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 16633**				
Client ID:	**LCS for batch 16633**			**Prep Basis:**	**As Received**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/28/2010 05:57**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b26oct10a_4-5**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
		Aliquot:	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		22.8	pg/g	0.180	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		142	200	pg/g	70.9	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**QC**
Lab Sample ID:	**12002002**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 16633**				
Client ID:	**LCSD for batch 16633**			**Prep Basis:**	**As Received**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/28/2010 06:43**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b26oct10a_4-6**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
		Aliquot:	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		23.3	pg/g	0.220	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		132	200	pg/g	65.9	(40%-135%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**QC**
Lab Sample ID:	**12002003**			**Matrix:**	**SOIL**
Client Sample:	**QC for batch 16633**				
Client ID:	**MB for batch 16633**			**Prep Basis:**	**As Received**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/28/2010 07:29**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b26oct10a_4-7**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
		Aliquot:	**10 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	.112	pg/g	0.112	1.00

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		137	200	pg/g	68.6	(40%-135%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for , but not detected above the specified detection limit.

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**JA58750**	**Client:**	**ACCU001**	**Project:**	**QC**
Lab Sample ID:	**12002004**	**Date Collected:**	**10/13/2010 08:25**	**Matrix:**	**Soil**
Client Sample:	**QC for batch 16633**	**Date Received:**	**10/15/2010 09:40**	**%Moisture:**	**20.6**
Client ID:	**JA58750-11(1741011MS)**			**Prep Basis:**	**Dry Weight**
Batch ID:	**17153**	**Method:**	**SW846 8290A**		
Run Date:	**10/29/2010 22:54**	**Analyst:**	**MJC**	**Instrument:**	**HRP763**
Data File:	**b29oct10a-8**			**Dilution:**	**1**
Prep Batch:	**16633**	**Prep Method:**	**SW846 3540C**		
Prep Date:	**18-OCT-10**	**Aliquot:**	**12.92 g**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		22.4	pg/g	0.189	0.975

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		134	195	pg/g	68.9	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	JA58750	**Client:**	ACCU001	**Project:**	QC
Lab Sample ID:	12002005	**Date Collected:**	10/13/2010 08:25	**Matrix:**	Soil
Client Sample:	QC for batch 16633	**Date Received:**	10/15/2010 09:40	**%Moisture:**	20.6
Client ID:	JA58750-11(1741011MSD)			**Prep Basis:**	Dry Weight
Batch ID:	17153	**Method:**	SW846 8290A		
Run Date:	10/29/2010 23:40	**Analyst:**	MJC	**Instrument:**	HRP763
Data File:	b29oct10a-9			**Dilution:**	1
Prep Batch:	16633	**Prep Method:**	SW846 3540C		
Prep Date:	18-OCT-10	**Aliquot:**	12.85 g		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		22.3	pg/g	0.204	0.980

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		139	196	pg/g	71.0	(40%-135%)

Comments:

K Estimated Maximum Possible Concentration

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:33:23 Eastern Standard Time
Printed: Friday, October 29, 2010 15:33:52 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-7, Date: 28-Oct-2010, Time: 07:29:55, ID: 12002003-1 MB, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD							NO		0.0558		510			550		
2	12378-PeCDD	1.00e2	7.81e1	1.78e2	33.19	1.001	1.28	YES	0.036	0.0332	3.27e3	684	4.8	2.39e3	569	4.2	bb
3	123478-HxCDD							NO		0.0396		569			607		
4	123678-HxCDD							NO		0.0338		569			607		
5	123789-HxCDD	1.08e2	8.10e1	1.89e2	35.83	1.006	1.33	NO	0.041	0.0371	1.98e3	569	3.5	2.55e3	607	4.2	bb
6	1234678-HpCDD	1.67e2	7.96e1	2.47e2	38.54	1.000	2.10	YES	0.059	0.0481	4.60e3	481	9.5	2.63e3	569	4.6	bb
7	OCDD	2.36e2	1.90e2	4.26e2	42.20	1.001	1.24	YES	0.138	0.0911	3.81e3	552	6.9	3.62e3	532	6.8	bb
8	2378-TCDF	5.37e2	8.42e2	1.38e3	28.43	1.000	0.64	YES	0.125	0.0390	6.74e3	663	10.2	1.10e4	832	13.3	bb
9	12378-PeCDF	7.70e1	8.34e1	1.60e2	32.42	1.000	0.92	YES	0.021	0.0298	2.81e3	651	4.3	3.08e3	1177	2.6	bb
10	23478-PeCDF	1.28e2	1.28e2	2.55e2	33.02	1.019	1.00	YES	0.033	0.0294	4.04e3	651	6.2	3.74e3	1177	3.2	bb
11	123478-HxCDF	8.65e1	7.05e1	1.57e2	34.91	0.998	1.23	NO	0.026	0.0368	2.98e3	808	3.7	1.58e3	735	2.1	bb
12	123678-HxCDF	8.95e1	9.29e1	1.82e2	34.98	1.000	0.96	YES	0.024	0.0297	3.26e3	808	4.0	3.69e3	735	5.0	bb
13	234678-HxCDF	7.71e1	8.04e1	1.57e2	35.45	1.013	0.96	YES	0.023	0.0331	2.02e3	808	2.5	2.57e3	735	3.5	bb
14	123789-HxCDF							NO		0.0408		808			735		
15	1234678-HpCDF							NO		0.0280		568			477		
16	1234789-HpCDF							NO		0.0369		568			477		
17	OCDF							NO		0.0777		410			717		
18	13C-2378-TCDD	2.55e5	3.25e5	5.80e5	29.34	1.025	0.78	NO	68.586	0.134	2.71e6	2120	1276.9	3.43e6	1865	1836.5	bb
19	13C-12378-PeCDD	3.07e5	1.97e5	5.04e5	33.17	1.159	1.56	NO	79.211	0.158	6.97e6	1839	3789.4	4.45e6	1694	2627.9	bb
20	13C-123678-HxCDD	3.11e5	2.43e5	5.54e5	35.62	0.994	1.28	NO	85.283	0.108	6.39e6	2924	2185.5	5.08e6	1576	3223.2	bb
21	13C-1234678-HpCDD	2.19e5	2.06e5	4.25e5	38.53	1.075	1.06	NO	94.972	0.174	3.42e6	2331	1465.2	3.16e6	2652	1191.8	bb
22	13C-OCDD	3.02e5	3.26e5	6.28e5	42.17	1.177	0.93	NO	161.071	0.193	3.50e6	2825	1238.7	3.83e6	1991	1925.0	bd
23	13C-2378-TCDF	5.20e5	6.58e5	1.18e6	28.42	0.993	0.79	NO	89.399	0.0616	5.41e6	1333	4060.1	6.96e6	1519	4584.1	bb
24	13C-12378-PeCDF	5.15e5	3.40e5	8.55e5	32.41	1.133	1.52	NO	79.128	0.163	1.25e7	3743	3340.1	8.01e6	2437	3286.3	bb
25	13C-123678-HxCDF	2.45e5	4.70e5	7.15e5	34.98	0.976	0.52	NO	81.810	0.0992	5.10e6	2906	1753.9	9.80e6	2636	3717.0	bb
26	13C-1234678-HpCDF	1.61e5	3.54e5	5.14e5	37.42	1.044	0.45	NO	90.145	0.114	2.77e6	1588	1744.0	6.13e6	2569	2386.1	bb
27	13C-1234-TCDD	3.42e5	4.22e5	7.64e5	28.62	0.000	0.81	NO	100.000	0.149	3.60e6	2120	1699.5	4.60e6	1865	2463.7	bb
28	13C-123789-HxCDD	3.30e5	2.63e5	5.93e5	35.83	0.000	1.25	NO	100.000	0.119	6.33e6	2924	2163.7	4.93e6	1576	3131.8	bb
29	37Cl-2378-TCDD (SS)									0.0262		550					
30	13C-23478-PeCDF (SS)							NO		0.0943		3743			2437		

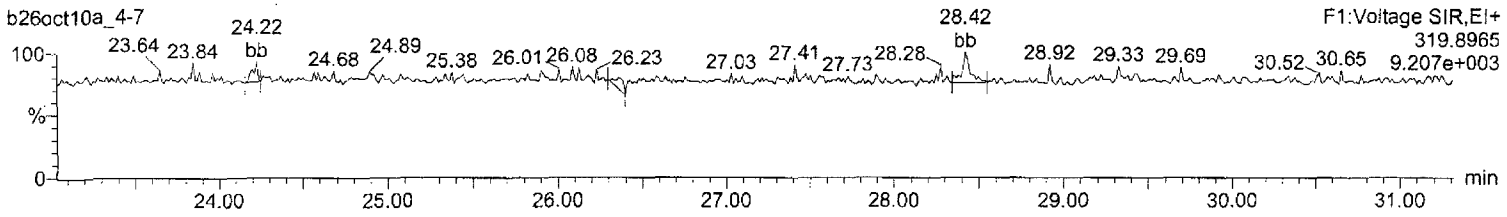
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

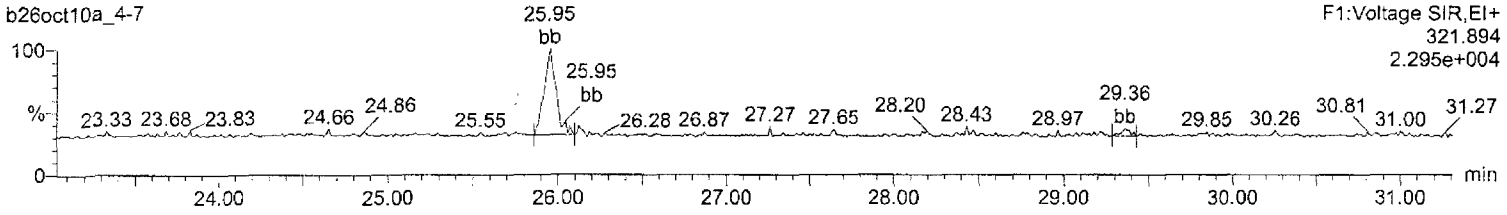
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-7, Date: 28-Oct-2010, Time: 07:29:55, ID: 12002003-1 MB, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

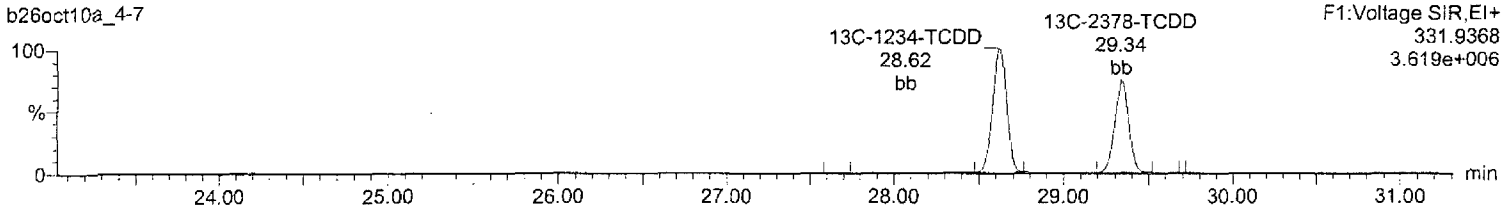
Total-tetradioxins



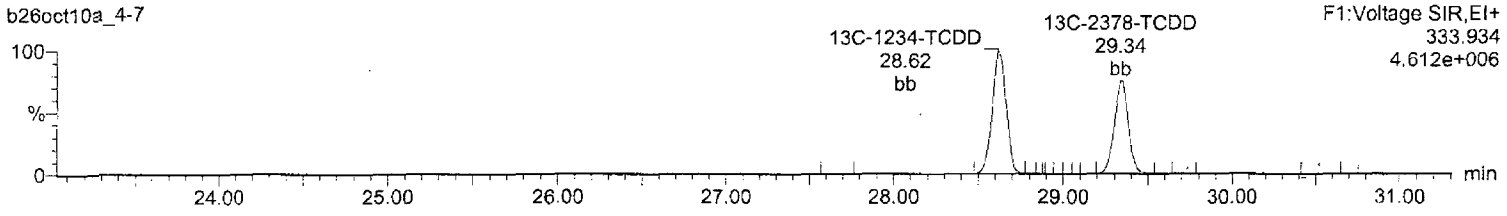
Total-tetradioxins



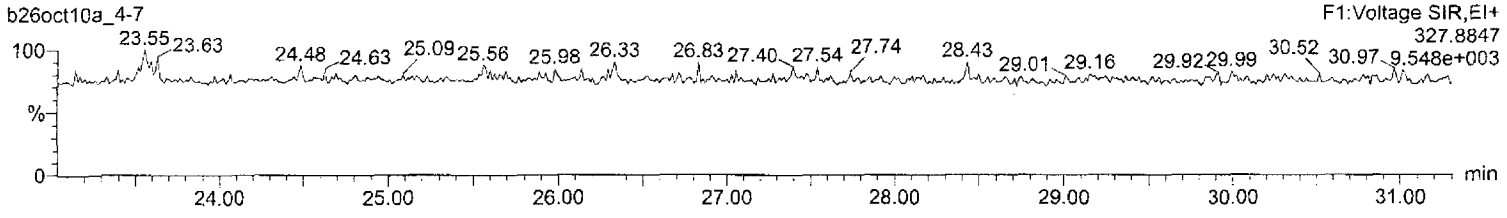
13C-2378-TCDD



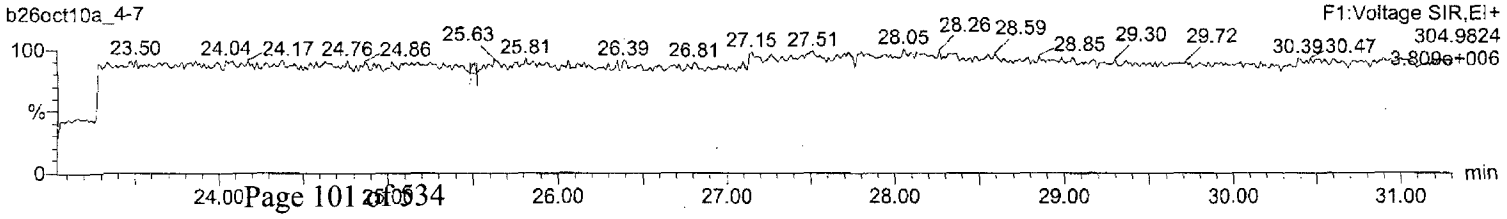
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:25:20 Eastern Standard Time
Printed: Friday, October 29, 2010 15:25:40 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-5, Date: 28-Oct-2010, Time: 05:57:54, ID: 12002001-1 LCS, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	3.08e4	4.06e4	7.14e4	29.38	1.001	0.76	NO	11.420	0.0902	3.25e5	746	435.7	4.23e5	1139	371.2	bb
2	12378-PeCDD	1.97e5	1.26e5	3.23e5	33.18	1.000	1.57	NO	53.682	0.100	4.75e6	2477	1916.8	3.01e6	2188	1374.2	bb
3	123478-HxCDD	1.79e5	1.42e5	3.20e5	35.56	0.998	1.26	NO	65.793	0.137	3.64e6	2331	1562.6	2.89e6	2273	1272.0	bd
4	123678-HxCDD	1.71e5	1.40e5	3.11e5	35.64	1.000	1.22	NO	54.469	0.117	3.56e6	2331	1527.5	2.82e6	2273	1239.0	db
5	123789-HxCDD	1.75e5	1.46e5	3.22e5	35.84	1.006	1.20	NO	61.869	0.128	3.39e6	2331	1453.2	2.68e6	2273	1179.6	bb
6	1234678-HpCDD	1.45e5	1.38e5	2.84e5	38.55	1.001	1.05	NO	54.981	0.185	2.25e6	2878	781.8	2.15e6	1972	1089.4	bd
7	OCDD	2.13e5	2.34e5	4.46e5	42.19	1.000	0.91	NO	109.872	0.296	2.52e6	2321	1085.0	2.77e6	2632	1051.7	bd
8	2378-TCDF	5.78e4	7.58e4	1.34e5	28.45	1.001	0.76	NO	10.785	0.0478	6.18e5	944	655.0	8.12e5	1180	688.5	bd
9	12378-PeCDF	3.10e5	2.04e5	5.13e5	32.42	1.000	1.52	NO	56.345	0.0754	8.03e6	3085	2603.6	5.21e6	2458	2119.8	bb
10	23478-PeCDF	3.09e5	1.98e5	5.07e5	33.00	1.018	1.56	NO	54.916	0.0745	7.20e6	3085	2334.3	4.64e6	2458	1888.6	bb
11	123478-HxCDF	2.32e5	1.92e5	4.25e5	34.90	0.998	1.21	NO	62.598	0.178	4.82e6	3762	1280.8	4.02e6	4389	917.0	bd
12	123678-HxCDF	2.64e5	2.15e5	4.79e5	35.00	1.001	1.23	NO	56.860	0.143	5.38e6	3762	1430.9	4.25e6	4389	969.2	db
13	234678-HxCDF	2.48e5	2.02e5	4.50e5	35.44	1.013	1.23	NO	59.626	0.160	5.04e6	3762	1339.0	4.17e6	4389	950.9	bb
14	123789-HxCDF	2.09e5	1.74e5	3.83e5	36.12	1.032	1.20	NO	62.525	0.197	3.65e6	3762	970.7	3.13e6	4389	714.2	bb
15	1234678-HpCDF	2.22e5	2.20e5	4.42e5	37.43	1.000	1.01	NO	54.954	0.134	3.88e6	3750	1035.4	3.85e6	2498	1540.5	bb
16	1234789-HpCDF	1.61e5	1.59e5	3.20e5	39.11	1.045	1.01	NO	52.261	0.177	2.44e6	3750	649.5	2.35e6	2498	940.7	bb
17	OCDF	2.45e5	2.67e5	5.13e5	42.45	1.006	0.92	NO	103.479	0.221	2.90e6	2600	1116.2	3.13e6	1914	1634.4	bd
18	13C-2378-TCDD	2.97e5	3.80e5	6.77e5	29.34	1.025	0.78	NO	70.908	0.101	2.98e6	1886	1577.8	3.94e6	1519	2593.2	bb
19	13C-12378-PeCDD	3.70e5	2.36e5	6.06e5	33.18	1.159	1.57	NO	84.485	0.117	8.59e6	1516	5665.5	5.48e6	1464	3745.7	bb
20	13C-123678-HxCDD	3.45e5	2.76e5	6.22e5	35.63	0.994	1.25	NO	81.434	0.116	7.16e6	2528	2833.8	5.75e6	3108	1851.1	bb
21	13C-1234678-HpCDD	2.69e5	2.54e5	5.23e5	38.53	1.075	1.06	NO	99.449	0.170	4.10e6	3386	1211.0	3.89e6	2309	1686.0	bb
22	13C-OCDD	3.92e5	4.36e5	8.28e5	42.18	1.177	0.90	NO	180.499	0.166	4.85e6	2107	2300.7	5.24e6	2759	1898.5	bb
23	13C-2378-TCDF	5.83e5	7.37e5	1.32e6	28.42	0.993	0.79	NO	88.857	0.0621	6.27e6	1848	3393.6	7.79e6	1421	5480.9	bb
24	13C-12378-PeCDF	6.28e5	3.98e5	1.03e6	32.41	1.132	1.58	NO	84.170	0.157	1.52e7	4369	3478.3	9.93e6	2420	4101.7	bb
25	13C-123678-HxCDF	2.77e5	5.26e5	8.03e5	34.98	0.976	0.53	NO	78.092	0.0889	5.61e6	3056	1834.5	1.07e7	2780	3859.3	bb
26	13C-1234678-HpCDF	2.00e5	4.37e5	6.37e5	37.42	1.044	0.46	NO	94.894	0.0842	3.47e6	1872	1853.1	7.57e6	1738	4352.7	bd
27	13C-1234-TCDD	3.86e5	4.76e5	8.62e5	28.63	0.000	0.81	NO	100.000	0.112	4.10e6	1886	2171.8	5.15e6	1519	3390.6	bb
28	13C-123789-HxCDD	3.91e5	3.06e5	6.98e5	35.83	0.000	1.28	NO	100.000	0.127	7.50e6	2528	2965.5	5.82e6	3108	1871.6	bb
29	37Cl-2378-TCDD (SS)									0.0270		623					MM-
30	13C-23478-PeCDF (SS)							NO		0.0866		4369			2420		

Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

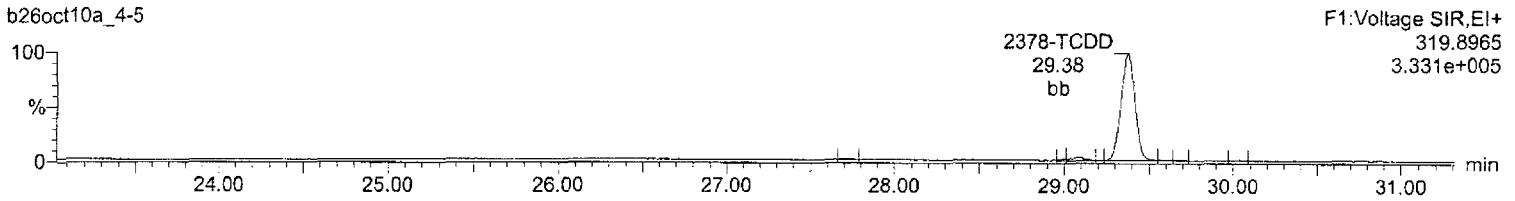
Dataset: Untitled

Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

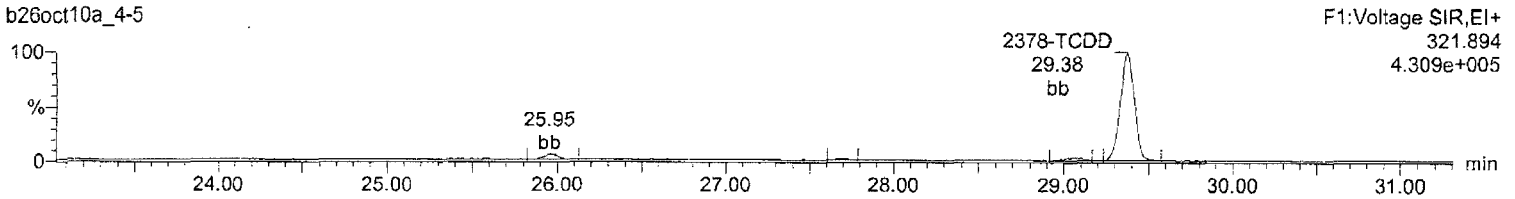
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-5, Date: 28-Oct-2010, Time: 05:57:54, ID: 12002001-1 LCS, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

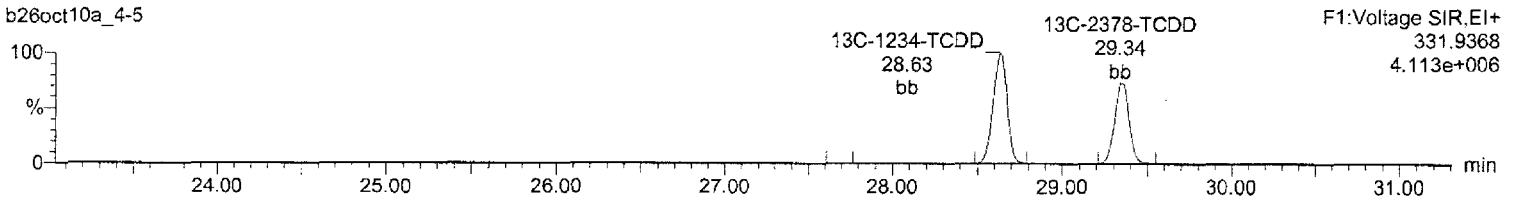
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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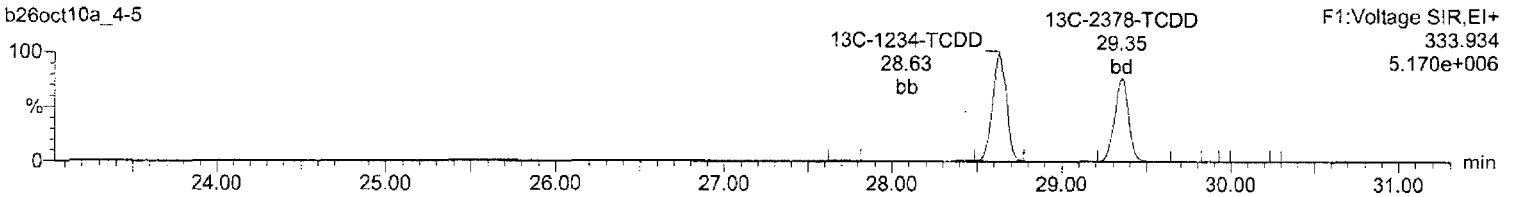
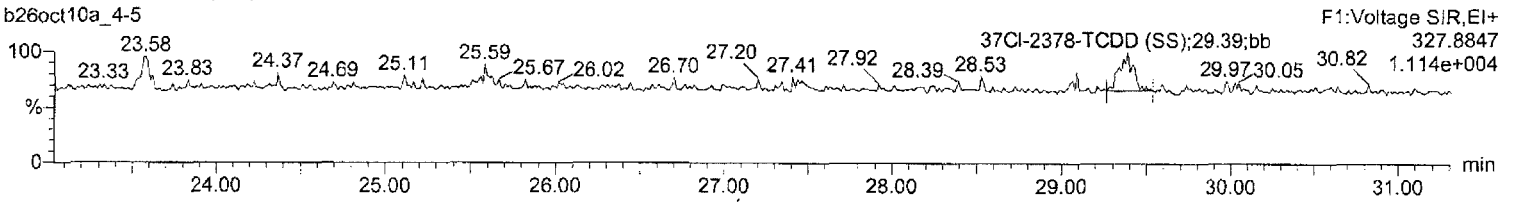
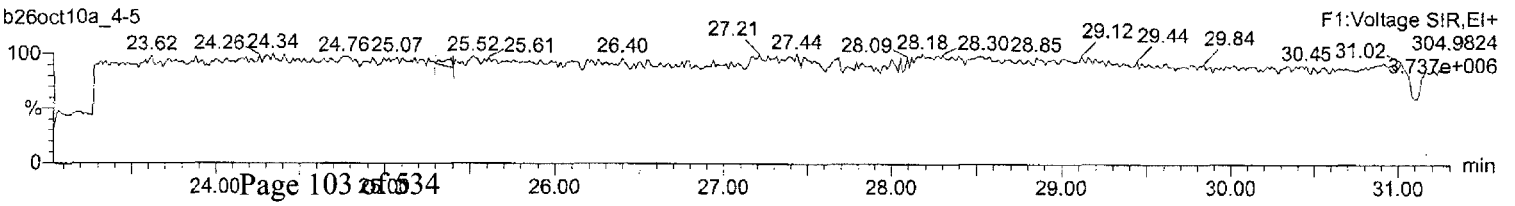


37Cl-2378-TCDD (SS)



Lock Mass F1



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b26oct10a_4.qld

Last Altered: Friday, October 29, 2010 15:31:02 Eastern Standard Time
Printed: Friday, October 29, 2010 15:32:54 Eastern Standard Time

HMP
31Oct10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-6, Date: 28-Oct-2010, Time: 06:43:54, ID: 12002002-1 LCSD, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.75e4	3.54e4	6.28e4	29.38	1.001	0.78	NO	11.672	0.110	2.86e5	610	469.0	3.70e5	1449	255.2	bb
2	12378-PeCDD	1.86e5	1.16e5	3.02e5	33.18	1.000	1.61	NO	53.886	0.0652	4.35e6	1502	2900.2	2.61e6	1268	2056.3	bb
3	123478-HxCDD	1.63e5	1.32e5	2.95e5	35.56	0.998	1.24	NO	63.221	0.145	3.48e6	3043	1142.4	2.77e6	1471	1881.5	bd
4	123678-HxCDD	1.73e5	1.38e5	3.11e5	35.63	1.000	1.26	NO	56.811	0.124	3.36e6	3043	1105.4	2.78e6	1471	1890.7	dd
5	123789-HxCDD	1.67e5	1.32e5	3.00e5	35.84	1.006	1.26	NO	60.161	0.136	3.22e6	3043	1057.7	2.53e6	1471	1718.3	db
6	1234678-HpCDD	1.36e5	1.28e5	2.64e5	38.54	1.000	1.07	NO	54.487	0.314	2.13e6	2077	1024.0	2.01e6	6006	335.1	bd
7	OCDD	1.91e5	2.12e5	4.03e5	42.19	1.000	0.90	NO	109.030	0.258	2.25e6	1674	1344.2	2.54e6	2125	1193.2	bd
8	2378-TCDF	3.93e4	5.17e4	9.10e4	28.45	1.001	0.76	NO	10.756	0.0614	4.12e5	697	591.1	5.40e5	1117	483.2	bb
9	12378-PeCDF	2.33e5	1.54e5	3.87e5	32.42	1.000	1.52	NO	56.483	0.105	5.90e6	2976	1982.5	3.75e6	2746	1366.0	bb
10	23478-PeCDF	2.18e5	1.45e5	3.63e5	33.00	1.018	1.51	NO	52.283	0.104	5.36e6	2976	1800.5	3.57e6	2746	1299.8	bb
11	123478-HxCDF	1.98e5	1.62e5	3.59e5	34.90	0.998	1.22	NO	65.531	0.268	4.32e6	6046	714.6	3.52e6	4214	835.5	bd
12	123678-HxCDF	2.14e5	1.74e5	3.88e5	34.99	1.000	1.23	NO	56.976	0.216	4.44e6	6046	735.2	3.60e6	4214	854.7	dd
13	234678-HxCDF	1.82e5	1.49e5	3.30e5	35.44	1.013	1.22	NO	54.058	0.241	3.57e6	6046	590.6	2.97e6	4214	703.6	bb
14	123789-HxCDF	1.93e5	1.52e5	3.45e5	36.12	1.032	1.27	NO	69.588	0.297	3.46e6	6046	571.8	2.79e6	4214	661.9	bd
15	1234678-HpCDF	1.95e5	1.88e5	3.83e5	37.43	1.000	1.04	NO	54.654	0.137	3.43e6	3221	1065.2	3.26e6	2417	1349.9	bb
16	1234789-HpCDF	1.49e5	1.48e5	2.97e5	39.10	1.045	1.01	NO	55.853	0.181	2.28e6	3221	709.2	2.21e6	2417	914.1	bb
17	OCDF	2.19e5	2.46e5	4.65e5	42.45	1.006	0.89	NO	103.004	0.271	2.69e6	2571	1044.5	3.06e6	2303	1327.1	bb
18	13C-2378-TCDD	2.58e5	3.25e5	5.82e5	29.35	1.025	0.79	NO	65.896	0.0993	2.69e6	1812	1482.4	3.25e6	1427	2274.3	bb
19	13C-12378-PeCDD	3.44e5	2.21e5	5.65e5	33.17	1.159	1.56	NO	85.049	0.151	7.82e6	2365	3307.7	5.07e6	1345	3770.9	bb
20	13C-123678-HxCDD	3.33e5	2.62e5	5.96e5	35.62	0.994	1.27	NO	78.905	0.113	6.66e6	3666	1817.8	5.25e6	1925	2729.6	bb
21	13C-1234678-HpCDD	2.53e5	2.38e5	4.92e5	38.53	1.075	1.06	NO	94.469	0.171	4.04e6	3086	1310.9	3.75e6	2733	1370.5	bb
22	13C-OCDD	3.59e5	3.95e5	7.54e5	42.18	1.177	0.91	NO	166.162	0.165	4.29e6	2878	1491.7	4.60e6	2027	2269.7	bd
23	13C-2378-TCDF	3.95e5	5.06e5	9.01e5	28.42	0.993	0.78	NO	65.500	0.0745	4.14e6	1606	2577.1	5.34e6	2178	2450.8	bb
24	13C-12378-PeCDF	4.69e5	3.03e5	7.72e5	32.41	1.132	1.55	NO	68.369	0.126	1.12e7	2091	5331.7	7.00e6	3169	2209.7	bd
25	13C-123678-HxCDF	2.27e5	4.23e5	6.49e5	34.98	0.976	0.54	NO	63.823	0.0795	4.75e6	2370	2002.1	9.05e6	2924	3093.5	bb
26	13C-1234678-HpCDF	1.72e5	3.82e5	5.55e5	37.42	1.044	0.45	NO	83.530	0.0982	3.03e6	1980	1532.5	6.57e6	2291	2869.2	bd
27	13C-1234-TCDD	3.57e5	4.41e5	7.98e5	28.63	0.000	0.81	NO	100.000	0.110	3.95e6	1812	2180.4	4.84e6	1427	3389.5	bb
28	13C-123789-HxCDD	3.84e5	3.07e5	6.90e5	35.83	0.000	1.25	NO	100.000	0.124	7.53e6	3666	2054.6	5.97e6	1925	3102.8	bb
29	37Cl-2378-TCDD (SS)									0.0281		581					MM-
30	13C-23478-PeCDF (SS)							NO		0.0908		2091			3169		

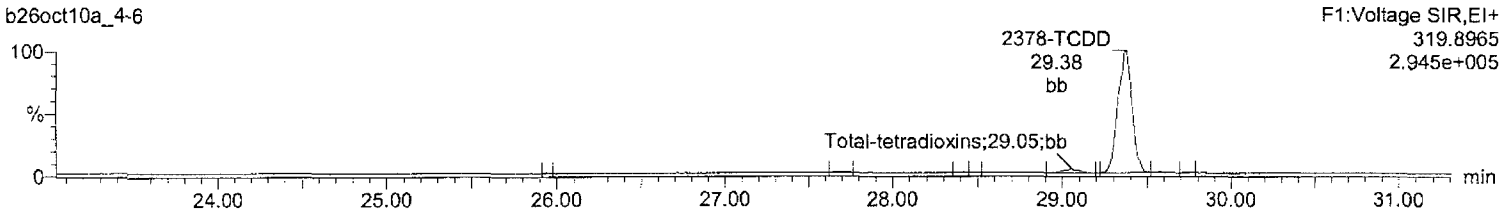
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: Untitled

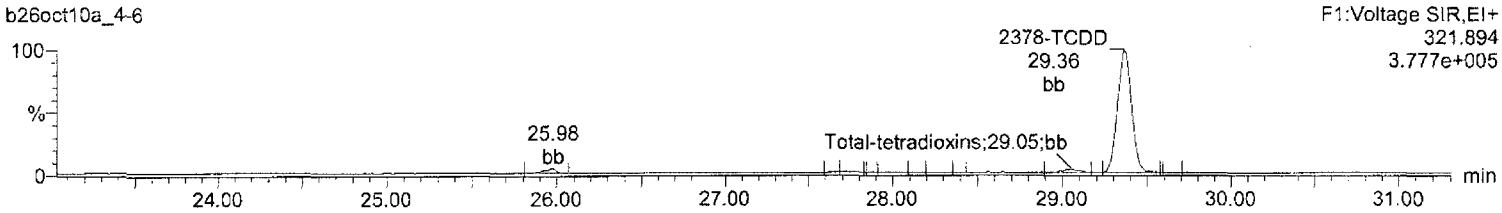
Last Altered: Friday, October 29, 2010 15:20:03 Eastern Standard Time
Printed: Friday, October 29, 2010 15:23:31 Eastern Standard Time

Name: b26oct10a_4-6, Date: 28-Oct-2010, Time: 06:43:54, ID: 12002002-1 LCSD, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

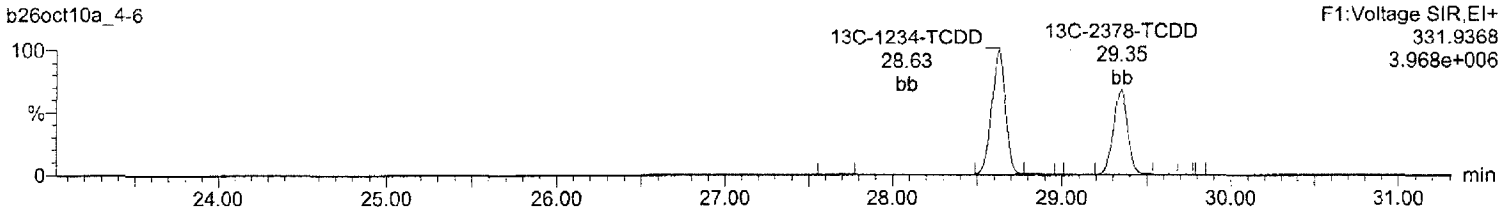
Total-tetradioxins



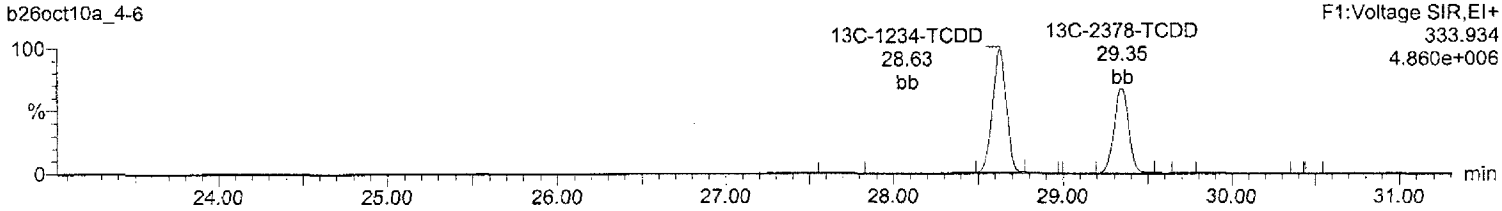
Total-tetradioxins



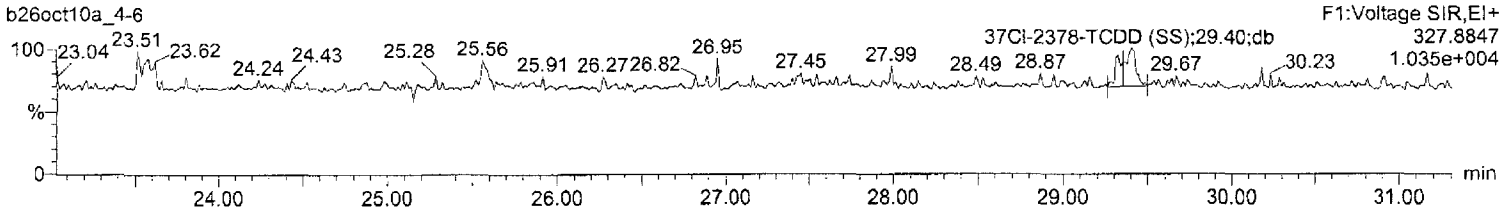
13C-2378-TCDD



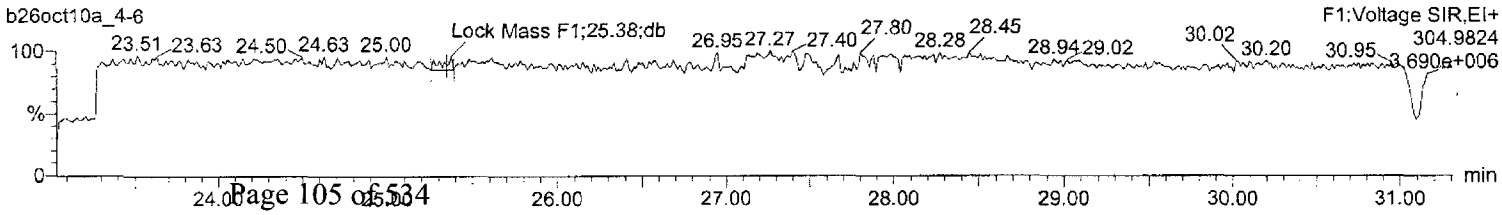
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:43:32 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:43:44 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-8, Date: 29-Oct-2010, Time: 22:54:27, ID: 12002004-1 MS, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.80e4	3.51e4	6.31e4	29.38	1.001	0.80	NO	11.495	0.0968	3.00e5	844	355.7	3.84e5	1019	377.1	bb
2	12378-PeCDD	1.96e5	1.22e5	3.19e5	33.18	1.000	1.61	NO	55.227	0.0840	4.59e6	2168	2115.3	2.89e6	1504	1920.6	bb
3	123478-HxCDD	1.51e5	1.17e5	2.68e5	35.56	0.998	1.29	NO	63.778	0.220	3.08e6	3299	932.8	2.40e6	2768	868.4	bd
4	123678-HxCDD	1.51e5	1.20e5	2.71e5	35.64	1.000	1.27	NO	54.959	0.188	3.04e6	3299	923.0	2.37e6	2768	857.1	db
5	123789-HxCDD	1.46e5	1.15e5	2.61e5	35.84	1.006	1.26	NO	58.116	0.206	2.66e6	3299	805.5	2.17e6	2768	784.3	bb
6	1234678-HpCDD	1.11e5	1.04e5	2.15e5	38.55	1.001	1.07	NO	54.804	0.200	1.60e6	2105	761.2	1.54e6	1925	800.3	bd
7	OCDD	1.73e5	1.93e5	3.67e5	42.20	1.000	0.90	NO	107.032	0.375	2.03e6	1758	1152.8	2.28e6	3012	756.5	bd
8	2378-TCDF	5.21e4	6.70e4	1.19e5	28.45	1.001	0.78	NO	11.007	0.0540	5.74e5	752	763.7	7.26e5	1346	539.4	bb
9	12378-PeCDF	3.06e5	1.96e5	5.02e5	32.42	1.000	1.56	NO	56.961	0.115	7.39e6	4302	1718.2	4.94e6	3511	1406.3	bd
10	23478-PeCDF	2.94e5	1.90e5	4.84e5	33.00	1.018	1.54	NO	54.238	0.113	6.79e6	4302	1577.4	4.45e6	3511	1268.0	bb
11	123478-HxCDF	2.09e5	1.67e5	3.76e5	34.91	0.998	1.25	NO	62.266	0.224	4.27e6	4063	1050.4	3.37e6	4728	713.3	bd
12	123678-HxCDF	2.49e5	1.97e5	4.46e5	35.00	1.000	1.26	NO	59.582	0.181	4.69e6	4063	1155.4	3.77e6	4728	796.7	dd
13	234678-HxCDF	2.10e5	1.75e5	3.85e5	35.44	1.013	1.20	NO	57.292	0.202	4.14e6	4063	1020.1	3.42e6	4728	723.5	bb
14	123789-HxCDF	1.74e5	1.39e5	3.13e5	36.12	1.032	1.25	NO	57.463	0.249	2.90e6	4063	714.6	2.34e6	4728	495.0	bd
15	1234678-HpCDF	1.79e5	1.72e5	3.50e5	37.44	1.001	1.04	NO	56.615	0.175	3.01e6	3210	936.4	2.93e6	2981	981.7	bb
16	1234789-HpCDF	1.25e5	1.22e5	2.47e5	39.11	1.045	1.03	NO	52.449	0.230	1.78e6	3210	554.0	1.68e6	2981	563.3	bd
17	OCDF	2.01e5	2.20e5	4.21e5	42.46	1.006	0.91	NO	100.710	0.300	2.29e6	2459	930.6	2.48e6	2199	1128.5	bd
18	13C-2378-TCDD	2.62e5	3.32e5	5.94e5	29.35	1.025	0.79	NO	68.893	0.121	2.76e6	2030	1357.9	3.48e6	1767	1971.3	bb
19	13C-12378-PeCDD	3.56e5	2.26e5	5.82e5	33.17	1.159	1.58	NO	89.770	0.130	8.10e6	1953	4145.2	5.25e6	1106	4744.9	bb
20	13C-123678-HxCDD	2.97e5	2.40e5	5.37e5	35.63	0.994	1.24	NO	83.732	0.175	5.83e6	3692	1580.0	4.66e6	3123	1491.2	bb
21	13C-1234678-HpCDD	2.04e5	1.94e5	3.98e5	38.53	1.075	1.05	NO	90.012	0.198	3.14e6	2828	1110.5	2.91e6	2491	1167.4	bb
22	13C-OCDD	3.33e5	3.66e5	6.98e5	42.18	1.177	0.91	NO	181.166	0.270	3.70e6	4164	889.1	4.13e6	2165	1906.8	bd
23	13C-2378-TCDF	5.08e5	6.45e5	1.15e6	28.42	0.993	0.79	NO	85.889	0.0779	5.47e6	1672	3270.6	6.86e6	2120	3236.0	bb
24	13C-12378-PeCDF	6.07e5	3.86e5	9.93e5	32.41	1.132	1.57	NO	90.176	0.163	1.40e7	4381	3204.4	9.18e6	2141	4286.0	bd
25	13C-123678-HxCDF	2.47e5	4.67e5	7.14e5	34.99	0.977	0.53	NO	82.653	0.142	4.81e6	2477	1940.4	9.12e6	5011	1820.8	bb
26	13C-1234678-HpCDF	1.51e5	3.39e5	4.91e5	37.42	1.044	0.45	NO	86.941	0.110	2.59e6	1909	1358.5	5.78e6	1872	3088.1	bb
27	13C-1234-TCDD	3.47e5	4.31e5	7.78e5	28.63	0.000	0.81	NO	100.000	0.135	3.78e6	2030	1861.7	4.60e6	1767	2602.9	bb
28	13C-123789-HxCDD	3.24e5	2.63e5	5.87e5	35.83	0.000	1.23	NO	100.000	0.191	5.91e6	3692	1601.0	4.79e6	3123	1534.1	bb
29	37Cl-2378-TCDD (SS)	2.30e2		2.30e2	29.38	1.001			0.038	0.0279	4.77e3	593	8.0				db
30	13C-23478-PeCDF (SS)							NO		0.0899		4381			2141		

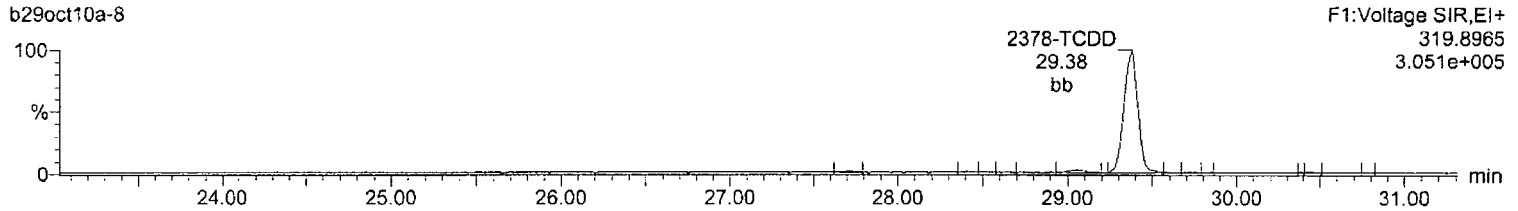
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

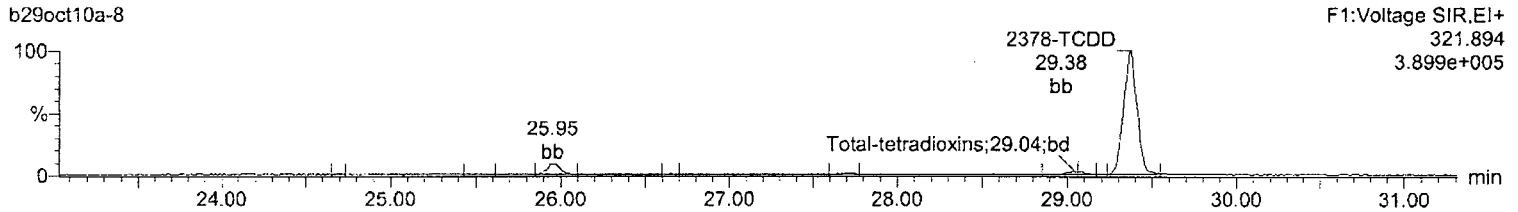
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-8, Date: 29-Oct-2010, Time: 22:54:27, ID: 12002004-1 MS, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

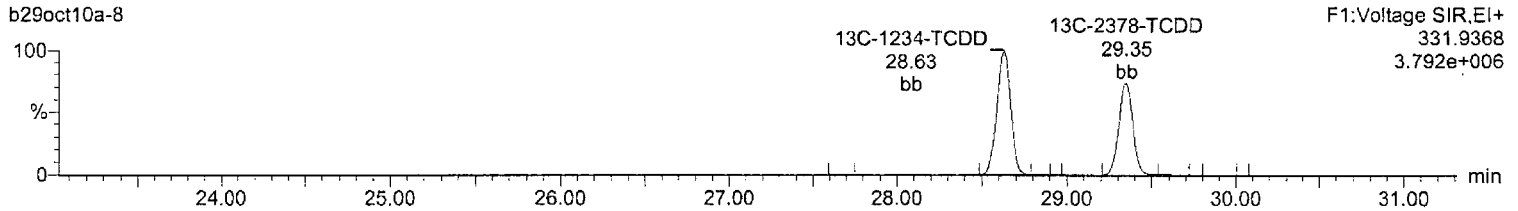
Total-tetradioxins



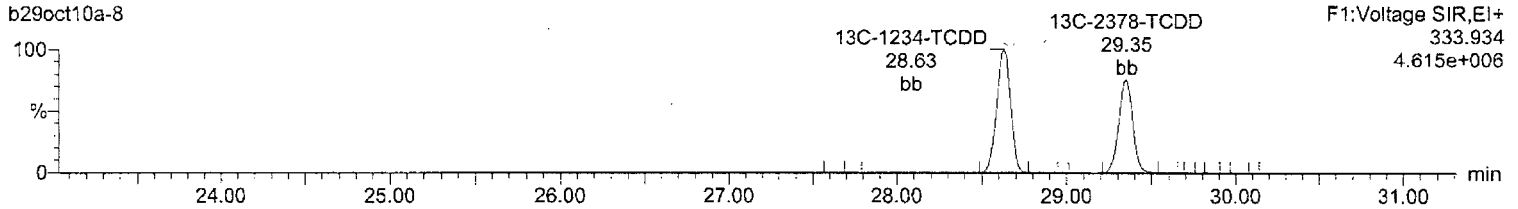
Total-tetradioxins



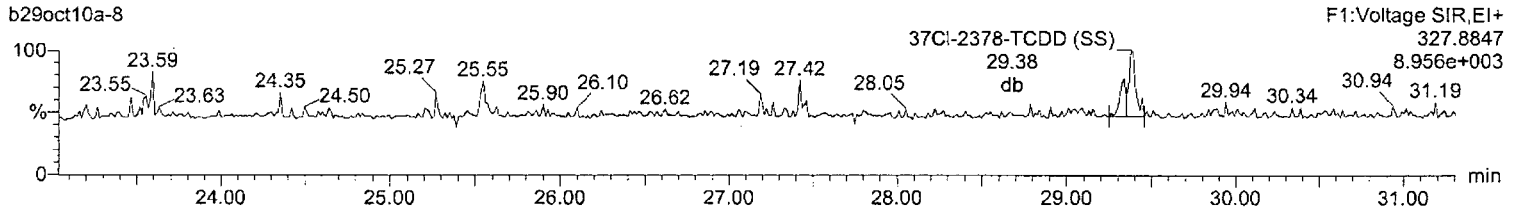
13C-2378-TCDD



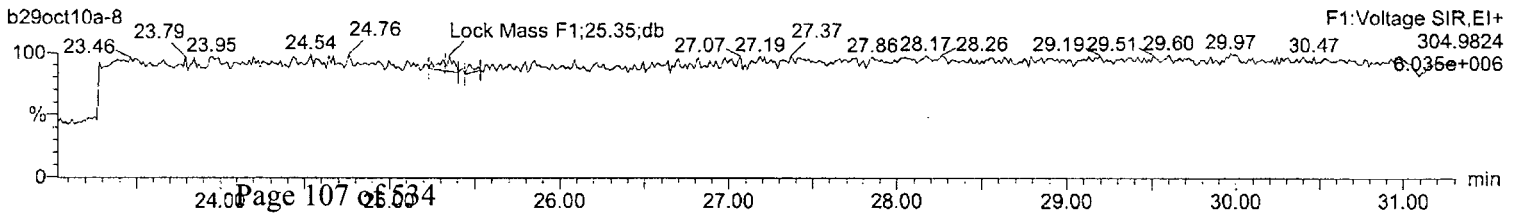
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

Last Altered: Wednesday, November 03, 2010 14:45:39 Eastern Standard Time
Printed: Wednesday, November 03, 2010 14:46:33 Eastern Standard Time

HMP
04Nov10

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-9, Date: 29-Oct-2010, Time: 23:40:26, ID: 12002005-1 MSD, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	2.79e4	3.58e4	6.38e4	29.38	1.001	0.78	NO	11.364	0.104	2.94e5	907	324.0	3.69e5	1096	336.5	bd
2	12378-PeCDD	2.06e5	1.29e5	3.35e5	33.18	1.000	1.60	NO	55.792	0.0991	4.48e6	2643	1695.4	2.91e6	1646	1768.3	bd
3	123478-HxCDD	1.63e5	1.32e5	2.94e5	35.56	0.998	1.24	NO	61.747	0.166	3.20e6	2596	1232.8	2.64e6	2548	1035.5	bd
4	123678-HxCDD	1.67e5	1.33e5	3.00e5	35.64	1.000	1.25	NO	53.671	0.142	3.19e6	2596	1227.2	2.58e6	2548	1012.8	db
5	123789-HxCDD	1.60e5	1.27e5	2.87e5	35.84	1.006	1.26	NO	56.455	0.156	2.95e6	2596	1136.2	2.38e6	2548	932.9	bd
6	1234678-HpCDD	1.27e5	1.25e5	2.52e5	38.54	1.000	1.01	NO	52.495	0.181	1.91e6	2192	869.4	1.85e6	1946	949.5	bb
7	OCDD	1.89e5	2.17e5	4.05e5	42.20	1.000	0.87	NO	108.905	0.293	2.17e6	2440	887.7	2.46e6	1735	1418.8	bb
8	2378-TCDF	5.29e4	6.73e4	1.20e5	28.43	1.000	0.79	NO	11.082	0.0578	5.66e5	1008	561.3	6.99e5	1274	548.5	bd
9	12378-PeCDF	3.17e5	2.05e5	5.22e5	32.42	1.000	1.55	NO	60.605	0.154	7.78e6	6713	1158.7	4.98e6	3862	1288.2	bd
10	23478-PeCDF	3.07e5	1.96e5	5.03e5	33.00	1.018	1.57	NO	57.704	0.152	7.18e6	6713	1069.7	4.59e6	3862	1187.5	bb
11	123478-HxCDF	2.12e5	1.75e5	3.87e5	34.90	0.998	1.22	NO	60.013	0.247	4.34e6	4976	872.7	3.47e6	5003	694.1	bd
12	123678-HxCDF	2.61e5	2.14e5	4.75e5	35.00	1.001	1.22	NO	59.368	0.199	5.19e6	4976	1042.7	4.11e6	5003	821.0	db
13	234678-HxCDF	2.30e5	1.87e5	4.17e5	35.44	1.013	1.23	NO	58.115	0.222	4.49e6	4976	901.6	3.62e6	5003	723.1	bb
14	123789-HxCDF	1.84e5	1.48e5	3.32e5	36.12	1.032	1.24	NO	56.957	0.274	3.06e6	4976	615.9	2.54e6	5003	508.5	bb
15	1234678-HpCDF	2.09e5	2.03e5	4.12e5	37.43	1.000	1.03	NO	59.239	0.170	3.41e6	3878	879.0	3.31e6	2597	1272.9	bb
16	1234789-HpCDF	1.36e5	1.34e5	2.70e5	39.11	1.045	1.02	NO	51.133	0.223	1.95e6	3878	503.4	1.86e6	2597	717.9	bd
17	OCDF	2.10e5	2.39e5	4.49e5	42.46	1.006	0.88	NO	98.842	0.282	2.47e6	2426	1018.8	2.71e6	2484	1090.3	bb
18	13C-2378-TCDD	2.67e5	3.40e5	6.07e5	29.35	1.025	0.78	NO	70.970	0.118	2.73e6	1929	1417.7	3.49e6	1600	2181.6	bb
19	13C-12378-PeCDD	3.70e5	2.37e5	6.06e5	33.17	1.159	1.56	NO	94.240	0.200	7.98e6	2889	2763.3	5.32e6	1616	3294.9	bb
20	13C-123678-HxCDD	3.39e5	2.70e5	6.08e5	35.63	0.994	1.26	NO	82.835	0.161	6.60e6	3420	1928.9	5.14e6	3628	1416.7	bd
21	13C-1234678-HpCDD	2.51e5	2.35e5	4.86e5	38.54	1.075	1.07	NO	96.037	0.215	3.59e6	3405	1053.1	3.39e6	3054	1109.5	bd
22	13C-OCDD	3.58e5	4.01e5	7.59e5	42.18	1.177	0.89	NO	172.024	0.266	4.12e6	2516	1636.8	4.59e6	4475	1025.4	bd
23	13C-2378-TCDF	5.16e5	6.40e5	1.16e6	28.42	0.993	0.81	NO	86.775	0.0665	5.63e6	1375	4095.1	6.95e6	1726	4026.9	bd
24	13C-12378-PeCDF	5.90e5	3.81e5	9.70e5	32.41	1.132	1.55	NO	88.774	0.164	1.41e7	4442	3182.8	8.77e6	1821	4817.5	bb
25	13C-123678-HxCDF	2.67e5	4.96e5	7.63e5	34.98	0.976	0.54	NO	77.121	0.0877	5.01e6	2416	2075.0	9.56e6	2741	3487.8	bd
26	13C-1234678-HpCDF	1.71e5	3.79e5	5.50e5	37.42	1.044	0.45	NO	85.247	0.117	2.83e6	1662	1700.3	6.27e6	2849	2200.0	bd
27	13C-1234-TCDD	3.42e5	4.30e5	7.72e5	28.63	0.000	0.79	NO	100.000	0.130	3.60e6	1929	1863.6	4.62e6	1600	2885.4	bb
28	13C-123789-HxCDD	3.75e5	2.96e5	6.71e5	35.83	0.000	1.27	NO	100.000	0.177	6.69e6	3420	1956.7	5.21e6	3628	1436.0	db
29	37Cl-2378-TCDD (SS)									0.0324		687					MM-
30	13C-23478-PeCDF (SS)							NO		0.0852		4442			1821		

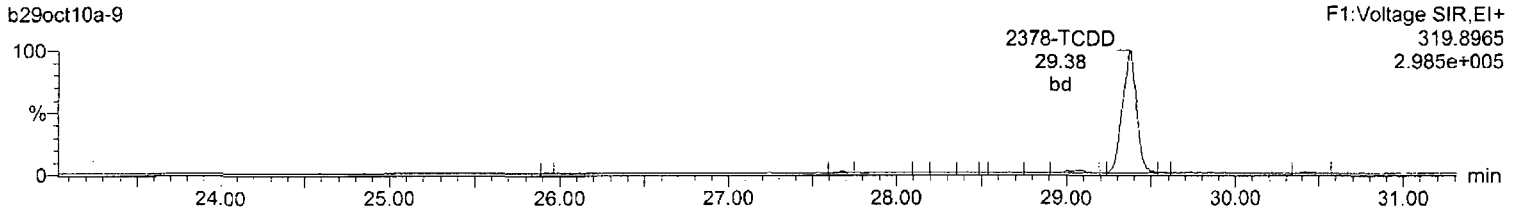
Quantify Sample Report **MassLynx 4.1**
Method 8290 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\8290-b29oct10a.qld

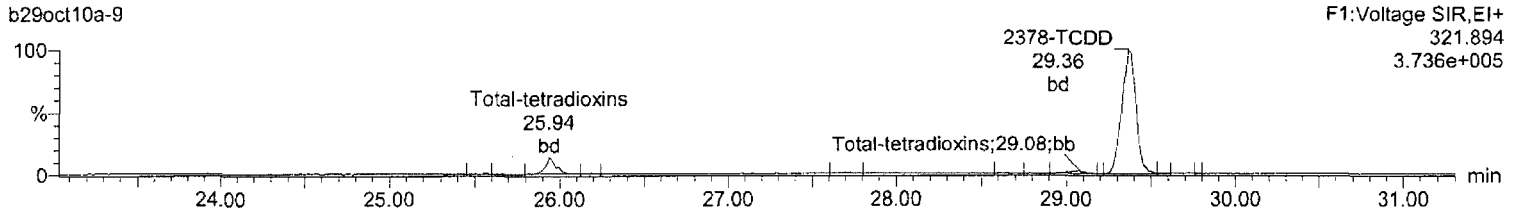
Last Altered: Wednesday, November 03, 2010 12:13:20 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:14:11 Eastern Standard Time

Name: b29oct10a-9, Date: 29-Oct-2010, Time: 23:40:26, ID: 12002005-1 MSD, Description: 17153, Job: HMS8290TCS, Task: HRP763_1, User: MJC

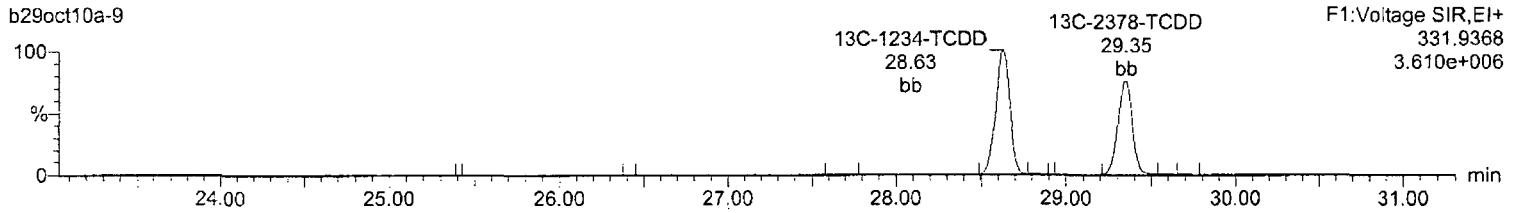
Total-tetradioxins



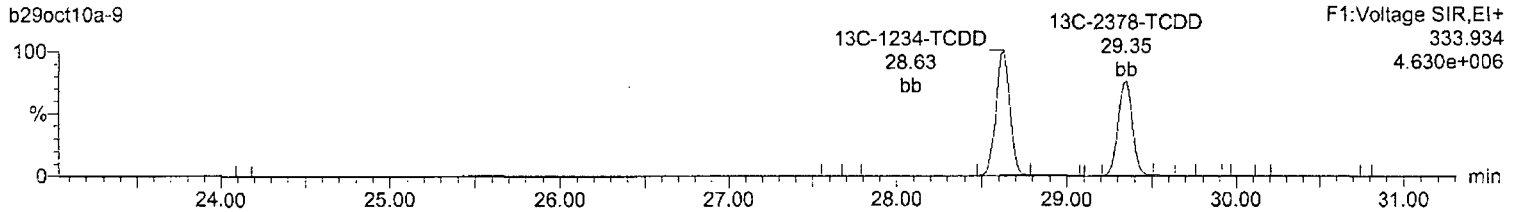
Total-tetradioxins



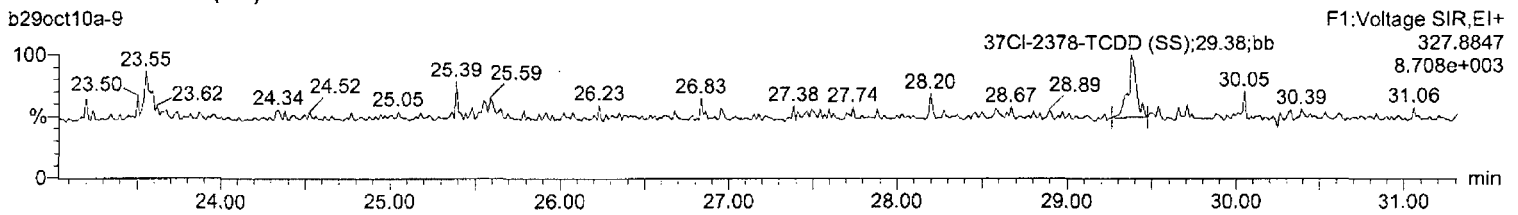
13C-2378-TCDD



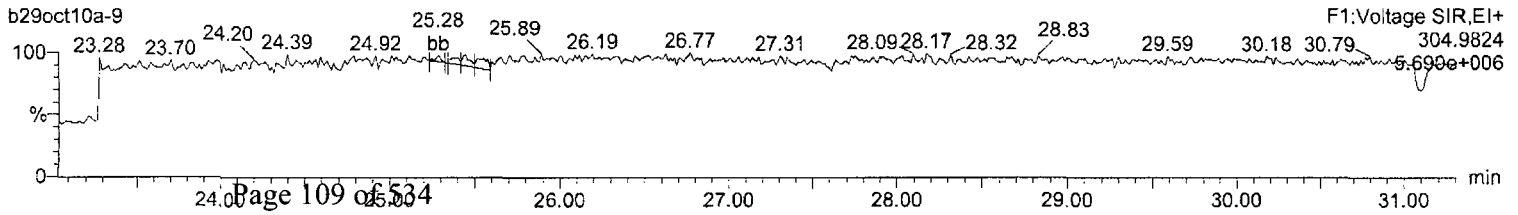
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



Logbooks

Moisture LogBook

Batch: 16593
Analyst: JB
Date/Time: 18-OCT-2010
Procedure Code DRY WEIGHT
Procedure Description Dry Weight-Percent Moisture
Lab Sop:

Sample St	Sample Id	Rpd(%)
DUP	12002000	6.22

Sample ID	Instrument	Run Time	Container Wt	Initial Wt	Final Wt (g)	Net Initial Wt (g)	Net Final Wt (g)	Moisture (%)	Solids (%)	Equivalen t Wt (g)
1728001	B1	08:19	1.01	9.22	6.52	8.21	5.51	32.887	67.113	14.9
1741001	B1	08:19	1.01	8.37	6.86	7.36	5.85	20.516	79.484	12.58
1741002	B1	08:19	1.01	9.62	7.74	8.61	6.73	21.835	78.165	12.79
1741003	B1	08:19	1.01	10.05	8.07	9.04	7.06	21.903	78.097	12.8
1741004	B1	08:19	1.01	8.99	7.13	7.98	6.12	23.308	76.692	13.04
1741005	B1	08:19	1.01	9.64	7.87	8.63	6.86	20.51	79.49	12.58
1741006	B1	08:19	1.01	9.08	7.94	8.07	6.93	14.126	85.874	11.64
1741007	B1	08:19	1.01	9.17	7.3	8.16	6.29	22.917	77.083	12.97
1741008	B1	08:19	1.01	10.72	8.88	9.71	7.87	18.95	81.05	12.34
1741009	B1	08:19	1.01	11.72	9.58	10.71	8.57	19.981	80.019	12.5
1741010	B1	08:19	1.01	9.52	7.61	8.51	6.6	22.444	77.556	12.89
1741011	B1	08:19	1.01	11.21	9.11	10.2	8.1	20.588	79.412	12.59
1741012	B1	08:19	1.01	9.37	7.64	8.36	6.63	20.694	79.306	12.61
1741013	B1	08:19	1.01	9.75	8.76	8.74	7.75	11.327	88.673	11.28
1741014	B1	08:19	1.01	9.19	7.4	8.18	6.39	21.883	78.117	12.8
1741015	B1	08:19	1.01	9.7	7.76	8.69	6.75	22.325	77.675	12.87
1741016	B1	08:19	1.01	9.44	7.08	8.43	6.07	27.995	72.005	13.89
1741017	B1	08:19	1.01	9.58	7.12	8.57	6.11	28.705	71.295	14.03
1741018	B1	08:19	1.01	10.28	8.42	9.27	7.41	20.065	79.935	12.51
12002000	B1	08:19	1.01	9.65	6.98	8.64	5.97	30.903	69.097	14.47

Comments:

A) Result = (Net Initial - Net Final) /Net Initial * 100

Note: Aliquot is used for the determination of the effective MDL and PQL in LIMS

Prep Logbook

3540C Solid Extraction for Method 8290A

Batch ID: 16633 **Verified by:** _____
Analyst: Jessica Burpee
Method: SW846 3540C

Lab SOP:
Instrument: Ohaus Scout Pro 400

Sample ID	Start Run Date	Aliquot (g)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
12002003 MB	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL		
12002003 MB	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL		
12002001 LCS	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
12002001 LCS	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
12002002 LCSD	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
12002002 LCSD	18-OCT-2010 13:35	10	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
1728001	18-OCT-2010 13:35	15.1	40	WD101018-02 .05 ng/uL		
1741001	18-OCT-2010 13:35	13.54	40	WD101018-02 .05 ng/uL		
1741002	18-OCT-2010 13:35	13.18	40	WD101018-02 .05 ng/uL		
1741003	18-OCT-2010 13:35	12.94	40	WD101018-02 .05 ng/uL		
1741004	18-OCT-2010 13:35	13.54	40	WD101018-02 .05 ng/uL		
1741005	18-OCT-2010 13:35	12.85	40	WD101018-02 .05 ng/uL		
1741006	18-OCT-2010 13:35	11.86	40	WD101018-02 .05 ng/uL		
1741007	18-OCT-2010 13:35	13.2	40	WD101018-02 .05 ng/uL		
1741008	18-OCT-2010 13:35	12.96	40	WD101018-02 .05 ng/uL		
1741009	18-OCT-2010 13:35	13.11	40	WD101018-02 .05 ng/uL		
1741010	18-OCT-2010 13:35	13.84	40	WD101018-02 .05 ng/uL		
1741011	18-OCT-2010 13:35	13.3	40	WD101018-02 .05 ng/uL		
12002004 MS (1741011)	18-OCT-2010 13:35	12.92	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
12002005 MSD (1741011)	18-OCT-2010 13:35	12.85	40	WD101018-02 .05 ng/uL	40	WD101011-04 .005 ng/uL
1741012	18-OCT-2010 13:35	13.1	40	WD101018-02 .05 ng/uL		
1741013	18-OCT-2010 13:35	12.08	40	WD101018-02 .05 ng/uL		
1741014	18-OCT-2010 13:35	13.25	40	WD101018-02 .05 ng/uL		
1741015	18-OCT-2010 13:35	14.25	40	WD101018-02 .05 ng/uL		

Prep Logbook

Batch ID: 16633 **Verified by:** _____
Analyst: Jessica Burpee
Method: SW846 3540C

Lab SOP:
Instrument: Ohaus Scout Pro 400

Sample ID	Start Run Date	Aliquot (g)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
1741016	18-OCT-2010 13:35	14.72	40	WD101018-02 .05 ng/uL		
1741017	18-OCT-2010 13:35	14.71	40	WD101018-02 .05 ng/uL		
1741018	18-OCT-2010 13:35	12.6	40	WD101011-03 .05 ng/uL		

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass beads	1073217-A	10	g
REAGENT		Purified tridecane	1076604-C	500	uL
REAGENT		Teflon boiling chips	1081091-A.6	10	each
REAGENT		Sodium Sulfate	1081093-A	10	g
REAGENT		Thimbles	1081709-A.5	1	g
REAGENT		Thimbles	1081711-A.6	1	g
REAGENT		Toluene	1082961-A.1	350	L
REAGENT		Toluene	1082963-A.2	350	L

Comments:

Finish Date/Time: 19-OCT-10 08:00:00

Prep Logbook

Cleanup Procedure for Solids

Batch ID: 17094 **Verified by:** _____

Analyst: Mike Medwedeff

Lab SOP:

Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Aliqout Analyzed (percent)
12002003 MB	27-OCT-2010 08:33	AB Silica Florisil	100
12002001 LCS	27-OCT-2010 08:33	AB Silica Florisil	100
12002002 LCSD	27-OCT-2010 08:33	AB Silica Florisil	100
1728001	27-OCT-2010 08:33	AB Silica Florisil	100
1741001	27-OCT-2010 08:33	AB Silica Florisil	100
1741002	27-OCT-2010 08:33	AB Silica Florisil	100
1741003	27-OCT-2010 08:33	AB Silica Florisil	100
1741004	27-OCT-2010 08:33	AB Silica Florisil	100
1741005	27-OCT-2010 08:33	AB Silica Florisil	100
1741006	27-OCT-2010 08:33	AB Silica Florisil	100
1741007	27-OCT-2010 08:33	AB Silica Florisil	100
1741008	27-OCT-2010 08:33	AB Silica Florisil	100
1741009	27-OCT-2010 08:33	AB Silica Florisil	100
1741010	27-OCT-2010 08:33	AB Silica Florisil	100
1741011	27-OCT-2010 08:33	AB Silica Florisil	100
12002004 MS (1741011)	27-OCT-2010 08:33	AB Silica Florisil	100
12002005 MSD (1741011)	27-OCT-2010 08:33	AB Silica Florisil	100
1741012	27-OCT-2010 08:33	AB Silica Florisil	100
1741013	27-OCT-2010 08:33	AB Silica Florisil	100
1741014	27-OCT-2010 08:33	AB Silica Florisil	100
1741015	27-OCT-2010 08:33	AB Silica Florisil	100
1741016	27-OCT-2010 08:33	AB Silica Florisil	100
1741017	27-OCT-2010 08:33	AB Silica Florisil	100
1741018	27-OCT-2010 08:33	AB Silica Florisil	100

Prep Logbook

Batch ID: 17094 **Verified by:** _____

Analyst: Mike Medwedeff

Lab SOP:

Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Aliqout Analyzed (percent)

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass Wool	1065012-A	1	each
REAGENT		Sodium Sulfate	1081093-A	3	g
REAGENT		Florisil	1081251-A.6	1.5	g
REAGENT		Methylene Chloride	1081621-A	100	mL
REAGENT		Hexane	1081867-A.16	150	mL
REAGENT		Silica Gel	1082916-A.1	2	g
REAGENT		Acid silica	1084141-C	7	g

Comments:

Prep Logbook

Method 8290A HRMS Solid Analysis

Batch ID: 17153 **Verified by:** _____

Analyst: Matt Cash

Method: SW846 8290A

Lab SOP: CF-OA-E-002 REV# 7

Instrument: Waters Autospec Premier

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/g)	Dilution	Dilution Type	Injection Volume (uL)
12002003 MB	27-OCT-2010 16:15	20	2	1	External	1
12002001 LCS	27-OCT-2010 16:15	20	2	1	External	1
12002002 LCSD	27-OCT-2010 16:15	20	2	1	External	1
1741001	27-OCT-2010 16:15	20	1.4771	1	External	1
1741002	27-OCT-2010 16:15	20	1.51745	1	External	1
1741003	27-OCT-2010 16:15	20	1.5456	1	External	1
1741004	27-OCT-2010 16:15	20	1.4771	1	External	1
1741005	27-OCT-2010 16:15	20	1.55642	1	External	1
1741006	27-OCT-2010 16:15	20	1.68634	1	External	1
1741007	27-OCT-2010 16:15	20	1.51515	1	External	1
1741008	27-OCT-2010 16:15	20	1.54321	1	External	1
1741009	27-OCT-2010 16:15	20	1.52555	1	External	1
1741010	27-OCT-2010 16:15	20	1.44509	1	External	1
1741011	27-OCT-2010 16:15	20	1.50376	1	External	1
12002004 MS (1741011)	27-OCT-2010 16:15	20	1.54799	1	External	1
12002005 MSD (1741011)	27-OCT-2010 16:15	20	1.55642	1	External	1
1741012	27-OCT-2010 16:15	20	1.52672	1	External	1
1741013	27-OCT-2010 16:15	20	1.65563	1	External	1
1741014	27-OCT-2010 16:15	20	1.50943	1	External	1
1741015	27-OCT-2010 16:15	20	1.40351	1	External	1
1741016	27-OCT-2010 16:15	20	1.3587	1	External	1
1741017	27-OCT-2010 16:15	20	1.35962	1	External	1
1741018	27-OCT-2010 16:15	20	1.5873	1	External	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	WD101027-03	20	uL
STANDARD		8290 Injection Standard	WD101027-03	20	uL

Comments:

Initial Calibration Data

HRP763_8290

Runlog Information

HMP 26Oct10

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
•	b22oct10a-1	HRP763_1	22-OCT-2010 10:47	b22oct10a	Matt Cash		CS3WT UD100713-01.1	1 uL
•	b22oct10a-2	HRP763_1	22-OCT-2010 11:32	b22oct10a	Matt Cash		SB	1 uL
•	b22oct10a-3	HRP763_1	22-OCT-2010 12:18	b22oct10a	Matt Cash		CS0.5 UD090323-01	1 uL
•	b22oct10a-4	HRP763_1	22-OCT-2010 13:04	b22oct10a	Matt Cash		CS1 UD090323-02	1 uL
•	b22oct10a-5	HRP763_1	22-OCT-2010 13:50	b22oct10a	Matt Cash		CS2 UD090323-03	1 uL
•	b22oct10a-6	HRP763_1	22-OCT-2010 14:36	b22oct10a	Matt Cash		CS3 UD090323-04	1 uL
•	b22oct10a-7	HRP763_1	22-OCT-2010 15:22	b22oct10a	Matt Cash		CS4 UD101022-05	1 uL
•	b22oct10a-8	HRP763_1	22-OCT-2010 16:08	b22oct10a	Matt Cash		CS5 UD090323-06	1 uL
•	b22oct10a-9	HRP763_1	22-OCT-2010 16:54	b22oct10a	Matt Cash		SB	1 uL

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: 25 Oct 2010 09:24:23

Compound name: 2378-TCDD
Response Factor: 0.924641
RRF SD: 0.0662807, Relative SD: 7.16826
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	0.250	29.40	0.23	0.866	0.925	bb
2	b22oct10a-4	CS1 UD090323-02	0.500	29.39	0.47	0.871	0.925	bb
3	b22oct10a-5	CS2 UD090323-03	2.000	29.39	1.91	0.881	0.925	bb
4	b22oct10a-6	CS3 UD090323-04	10.000	29.39	9.98	0.923	0.925	bb
5	b22oct10a-7	CS4 UD101022-05	40.000	29.40	44.53	1.029	0.925	bb
6	b22oct10a-8	CS5 UD090323-06	200.000	29.40	211.44	0.978	0.925	bb

Compound name: 12378-PeCDD
Response Factor: 0.991432
RRF SD: 0.0447453, Relative SD: 4.5132
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	33.21	1.17	0.929	0.991	bb
2	b22oct10a-4	CS1 UD090323-02	2.500	33.20	2.39	0.947	0.991	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	33.21	9.97	0.989	0.991	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	33.20	51.56	1.022	0.991	bb
5	b22oct10a-7	CS4 UD101022-05	200.000	33.21	206.39	1.023	0.991	bb
6	b22oct10a-8	CS5 UD090323-06	1000.000	33.21	1047.06	1.038	0.991	bb

Compound name: 123478-HxCDD
Response Factor: 0.783253
RRF SD: 0.0491545, Relative SD: 6.27568
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	35.59	1.15	0.724	0.783	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	35.57	2.30	0.720	0.783	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	35.58	10.36	0.811	0.783	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	35.58	52.45	0.822	0.783	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	35.59	202.68	0.794	0.783	bd
6	b22oct10a-8	CS5 UD090323-06	1000.000	35.59	1059.03	0.829	0.783	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 123678-HxCDD
Response Factor: 0.918228
RRF SD: 0.0613214, Relative SD: 6.67823
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	35.66	1.15	0.847	0.918	dd
2	b22oct10a-4	CS1 UD090323-02	2.500	35.66	2.44	0.895	0.918	dd
3	b22oct10a-5	CS2 UD090323-03	10.000	35.66	9.57	0.879	0.918	dd
4	b22oct10a-6	CS3 UD090323-04	50.000	35.65	54.88	1.008	0.918	dd
5	b22oct10a-7	CS4 UD101022-05	200.000	35.66	212.62	0.976	0.918	dd
6	b22oct10a-8	CS5 UD090323-06	1000.000	35.67	985.73	0.905	0.918	dd

Compound name: 123789-HxCDD
Response Factor: 0.836062
RRF SD: 0.0616252, Relative SD: 7.37089
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	35.87	1.14	0.762	0.836	db
2	b22oct10a-4	CS1 UD090323-02	2.500	35.86	2.30	0.769	0.836	dd
3	b22oct10a-5	CS2 UD090323-03	10.000	35.86	10.02	0.837	0.836	dd
4	b22oct10a-6	CS3 UD090323-04	50.000	35.86	54.86	0.917	0.836	dd
5	b22oct10a-7	CS4 UD101022-05	200.000	35.87	211.04	0.882	0.836	dd
6	b22oct10a-8	CS5 UD090323-06	1000.000	35.87	1015.62	0.849	0.836	dd

Compound name: 1234678-HpCDD
Response Factor: 0.985883
RRF SD: 0.0717251, Relative SD: 7.27521
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	38.58	1.13	0.890	0.986	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	38.57	2.33	0.919	0.986	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	38.57	9.88	0.974	0.986	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	38.57	51.34	1.012	0.986	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	38.58	212.29	1.046	0.986	bb
6	b22oct10a-8	CS5 UD090323-06	1000.000	38.58	1088.66	1.073	0.986	bb

Compound name: OCDD
Response Factor: 0.981083
RRF SD: 0.0768222, Relative SD: 7.83034
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	2.500	42.23	2.24	0.880	0.981	bd
2	b22oct10a-4	CS1 UD090323-02	5.000	42.22	4.68	0.918	0.981	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: OCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b22oct10a-5	CS2 UD090323-03	20.000	42.23	19.27	0.945	0.981	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	42.23	104.79	1.028	0.981	bd
5	b22oct10a-7	CS4 UD101022-05	400.000	42.24	429.04	1.052	0.981	bd
6	b22oct10a-8	CS5 UD090323-06	2000.000	42.24	2167.30	1.063	0.981	bd

Compound name: 2378-TCDF
Response Factor: 0.93858
RRF SD: 0.0347583, Relative SD: 3.70329
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	0.250	28.49	0.25	0.953	0.939	bb
2	b22oct10a-4	CS1 UD090323-02	0.500	28.47	0.49	0.923	0.939	bb
3	b22oct10a-5	CS2 UD090323-03	2.000	28.46	1.91	0.896	0.939	bd
4	b22oct10a-6	CS3 UD090323-04	10.000	28.46	9.98	0.937	0.939	bd
5	b22oct10a-7	CS4 UD101022-05	40.000	28.47	39.38	0.924	0.939	bb
6	b22oct10a-8	CS5 UD090323-06	200.000	28.47	212.78	0.999	0.939	bb

Compound name: 12378-PeCDF
Response Factor: 0.888002
RRF SD: 0.0481987, Relative SD: 5.42778
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	32.44	1.16	0.821	0.888	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	32.43	2.35	0.834	0.888	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	32.43	10.18	0.904	0.888	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	32.43	51.56	0.916	0.888	dd
5	b22oct10a-7	CS4 UD101022-05	200.000	32.44	206.78	0.918	0.888	dd
6	b22oct10a-8	CS5 UD090323-06	1000.000	32.44	1053.41	0.935	0.888	bd

Compound name: 23478-PeCDF
Response Factor: 0.899137
RRF SD: 0.0411943, Relative SD: 4.58154
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	33.03	1.19	0.856	0.899	bb
2	b22oct10a-4	CS1 UD090323-02	2.500	33.02	2.40	0.863	0.899	bb
3	b22oct10a-5	CS2 UD090323-03	10.000	33.02	10.31	0.927	0.899	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	33.02	48.29	0.868	0.899	bb
5	b22oct10a-7	CS4 UD101022-05	200.000	33.03	211.29	0.950	0.899	bb
6	b22oct10a-8	CS5 UD090323-06	1000.000	33.03	1034.77	0.930	0.899	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 123478-HxCDF
Response Factor: 0.845
RRF SD: 0.0270502, Relative SD: 3.20121
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	34.93	1.22	0.825	0.845	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	34.92	2.40	0.811	0.845	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	34.92	9.99	0.844	0.845	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	34.92	49.69	0.840	0.845	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	34.93	204.86	0.866	0.845	bd
6	b22oct10a-8	CS5 UD090323-06	1000.000	34.93	1047.76	0.885	0.845	bd

Compound name: 123678-HxCDF
Response Factor: 1.04836
RRF SD: 0.0510114, Relative SD: 4.8658
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	35.02	1.20	1.010	1.048	dd
2	b22oct10a-4	CS1 UD090323-02	2.500	35.01	2.33	0.976	1.048	dd
3	b22oct10a-5	CS2 UD090323-03	10.000	35.02	9.88	1.036	1.048	dd
4	b22oct10a-6	CS3 UD090323-04	50.000	35.01	52.34	1.097	1.048	dd
5	b22oct10a-7	CS4 UD101022-05	200.000	35.02	211.45	1.108	1.048	db
6	b22oct10a-8	CS5 UD090323-06	1000.000	35.02	1013.05	1.062	1.048	db

Compound name: 234678-HxCDF
Response Factor: 0.94109
RRF SD: 0.0341743, Relative SD: 3.63135
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	35.47	1.27	0.959	0.941	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	35.46	2.37	0.890	0.941	bb
3	b22oct10a-5	CS2 UD090323-03	10.000	35.46	9.63	0.906	0.941	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	35.46	50.62	0.953	0.941	dd
5	b22oct10a-7	CS4 UD101022-05	200.000	35.47	206.92	0.974	0.941	bb
6	b22oct10a-8	CS5 UD090323-06	1000.000	35.47	1024.93	0.965	0.941	bd

Compound name: 123789-HxCDF
Response Factor: 0.763236
RRF SD: 0.0397227, Relative SD: 5.20451
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	36.15	1.25	0.765	0.763	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	36.14	2.34	0.714	0.763	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 123789-HxCDF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b22oct10a-5	CS2 UD090323-03	10.000	36.14	9.74	0.744	0.763	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	36.14	49.56	0.756	0.763	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	36.15	218.66	0.834	0.763	bd
6	b22oct10a-8	CS5 UD090323-06	1000.000	36.15	1002.43	0.765	0.763	bb

Compound name: 1234678-HpCDF
Response Factor: 1.26194
RRF SD: 0.0761137, Relative SD: 6.03147
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	37.47	1.14	1.153	1.262	bd
2	b22oct10a-4	CS1 UD090323-02	2.500	37.44	2.40	1.211	1.262	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	37.46	9.73	1.228	1.262	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	37.45	51.60	1.302	1.262	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	37.46	213.21	1.345	1.262	bb
6	b22oct10a-8	CS5 UD090323-06	1000.000	37.46	1055.15	1.332	1.262	bb

Compound name: 1234789-HpCDF
Response Factor: 0.96001
RRF SD: 0.0575232, Relative SD: 5.99194
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	1.250	39.14	1.20	0.923	0.960	bb
2	b22oct10a-4	CS1 UD090323-02	2.500	39.15	2.30	0.885	0.960	bd
3	b22oct10a-5	CS2 UD090323-03	10.000	39.15	9.90	0.951	0.960	bd
4	b22oct10a-6	CS3 UD090323-04	50.000	39.13	49.55	0.951	0.960	bb
5	b22oct10a-7	CS4 UD101022-05	200.000	39.15	217.96	1.046	0.960	bd
6	b22oct10a-8	CS5 UD090323-06	1000.000	39.14	1045.55	1.004	0.960	bb

Compound name: OCDF
Response Factor: 1.19672
RRF SD: 0.154302, Relative SD: 12.8937
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	2.500	42.50	2.09	1.002	1.197	bd
2	b22oct10a-4	CS1 UD090323-02	5.000	42.48	4.40	1.054	1.197	bd
3	b22oct10a-5	CS2 UD090323-03	20.000	42.50	19.09	1.142	1.197	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	42.49	105.52	1.263	1.197	bd
5	b22oct10a-7	CS4 UD101022-05	400.000	42.50	447.75	1.340	1.197	bd
6	b22oct10a-8	CS5 UD090323-06	2000.000	42.51	2304.66	1.379	1.197	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 13C-2378-TCDD
Response Factor: 1.10744
RRF SD: 0.0566371, Relative SD: 5.11425
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	29.38	102.49	1.135	1.107	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	29.36	100.78	1.116	1.107	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	29.36	101.79	1.127	1.107	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	29.36	93.93	1.040	1.107	bb
5	b22oct10a-7	CS4 UD101022-05	100.000	29.38	94.05	1.042	1.107	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	29.38	106.97	1.185	1.107	bb

Compound name: 13C-12378-PeCDD
Response Factor: 0.833054
RRF SD: 0.0426811, Relative SD: 5.12345
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	33.20	102.72	0.856	0.833	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	33.19	100.06	0.834	0.833	bd
3	b22oct10a-5	CS2 UD090323-03	100.000	33.19	97.34	0.811	0.833	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	33.19	93.50	0.779	0.833	bb
5	b22oct10a-7	CS4 UD101022-05	100.000	33.20	97.98	0.816	0.833	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	33.20	108.39	0.903	0.833	bb

Compound name: 13C-123678-HxCDD
Response Factor: 1.094
RRF SD: 0.0677611, Relative SD: 6.19388
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	35.65	95.66	1.047	1.094	dd
2	b22oct10a-4	CS1 UD090323-02	100.000	35.64	97.95	1.072	1.094	dd
3	b22oct10a-5	CS2 UD090323-03	100.000	35.65	91.93	1.006	1.094	dd
4	b22oct10a-6	CS3 UD090323-04	100.000	35.64	107.37	1.175	1.094	db
5	b22oct10a-7	CS4 UD101022-05	100.000	35.65	100.05	1.095	1.094	dd
6	b22oct10a-8	CS5 UD090323-06	100.000	35.66	107.04	1.171	1.094	dd

Compound name: 13C-1234678-HpCDD
Response Factor: 0.75385
RRF SD: 0.0417316, Relative SD: 5.5358
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	38.57	96.46	0.727	0.754	bd
2	b22oct10a-4	CS1 UD090323-02	100.000	38.56	97.87	0.738	0.754	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 13C-1234678-HpCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b22oct10a-5	CS2 UD090323-03	100.000	38.56	93.64	0.706	0.754	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	38.56	109.51	0.826	0.754	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	38.56	100.26	0.756	0.754	bd
6	b22oct10a-8	CS5 UD090323-06	100.000	38.57	102.26	0.771	0.754	bd

Compound name: 13C-OCDD
Response Factor: 0.657291
RRF SD: 0.0556244, Relative SD: 8.46266
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	200.000	42.22	191.70	0.630	0.657	bd
2	b22oct10a-4	CS1 UD090323-02	200.000	42.21	187.52	0.616	0.657	bd
3	b22oct10a-5	CS2 UD090323-03	200.000	42.22	178.91	0.588	0.657	bd
4	b22oct10a-6	CS3 UD090323-04	200.000	42.22	217.67	0.715	0.657	bd
5	b22oct10a-7	CS4 UD101022-05	200.000	42.23	203.21	0.668	0.657	bd
6	b22oct10a-8	CS5 UD090323-06	200.000	42.24	220.99	0.726	0.657	bd

Compound name: 13C-2378-TCDF
Response Factor: 1.72435
RRF SD: 0.0376081, Relative SD: 2.181
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	28.45	98.77	1.703	1.724	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	28.45	97.83	1.687	1.724	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	28.43	98.24	1.694	1.724	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	28.43	100.97	1.741	1.724	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	28.43	100.54	1.734	1.724	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	28.45	103.64	1.787	1.724	bb

Compound name: 13C-12378-PeCDF
Response Factor: 1.41474
RRF SD: 0.0753769, Relative SD: 5.32798
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	32.43	103.72	1.467	1.415	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	32.42	97.01	1.372	1.415	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	32.42	94.93	1.343	1.415	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	32.42	99.25	1.404	1.415	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	32.43	96.22	1.361	1.415	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	32.43	108.87	1.540	1.415	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 13C-123678-HxCDF
Response Factor: 1.47341
RRF SD: 0.125953, Relative SD: 8.54843
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	35.01	90.84	1.338	1.473	db
2	b22oct10a-4	CS1 UD090323-02	100.000	35.00	94.16	1.387	1.473	db
3	b22oct10a-5	CS2 UD090323-03	100.000	35.00	97.05	1.430	1.473	dd
4	b22oct10a-6	CS3 UD090323-04	100.000	35.00	114.66	1.689	1.473	dd
5	b22oct10a-7	CS4 UD101022-05	100.000	35.01	98.60	1.453	1.473	dd
6	b22oct10a-8	CS5 UD090323-06	100.000	35.01	104.69	1.543	1.473	db

Compound name: 13C-1234678-HpCDF
Response Factor: 0.962055
RRF SD: 0.0805089, Relative SD: 8.36843
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	37.45	92.45	0.889	0.962	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	37.44	95.17	0.916	0.962	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	37.45	93.65	0.901	0.962	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	37.44	114.38	1.100	0.962	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	37.45	99.61	0.958	0.962	bd
6	b22oct10a-8	CS5 UD090323-06	100.000	37.45	104.75	1.008	0.962	bd

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	28.66	100.00	1.000	1.000	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	28.64	100.00	1.000	1.000	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	28.66	100.00	1.000	1.000	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	28.64	100.00	1.000	1.000	bb
5	b22oct10a-7	CS4 UD101022-05	100.000	28.66	100.00	1.000	1.000	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	28.66	100.00	1.000	1.000	bb

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	35.86	100.00	1.000	1.000	dd
2	b22oct10a-4	CS1 UD090323-02	100.000	35.85	100.00	1.000	1.000	dd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 13C-123789-HxCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b22oct10a-5	CS2 UD090323-03	100.000	35.85	100.00	1.000	1.000	dd
4	b22oct10a-6	CS3 UD090323-04	100.000	35.85	100.00	1.000	1.000	bb
5	b22oct10a-7	CS4 UD101022-05	100.000	35.86	100.00	1.000	1.000	dd
6	b22oct10a-8	CS5 UD090323-06	100.000	35.86	100.00	1.000	1.000	dd

Compound name: 37Cl-2378-TCDD (SS)
Response Factor: 1.02154
RRF SD: 0.050879, Relative SD: 4.98061
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	0.250	29.38	0.24	0.982	1.022	bb
2	b22oct10a-4	CS1 UD090323-02	0.500	29.39	0.49	0.999	1.022	bd
3	b22oct10a-5	CS2 UD090323-03	2.000	29.39	1.94	0.991	1.022	bb
4	b22oct10a-6	CS3 UD090323-04	10.000	29.38	9.78	0.999	1.022	bb
5	b22oct10a-7	CS4 UD101022-05	40.000	29.39	43.73	1.117	1.022	bb
6	b22oct10a-8	CS5 UD090323-06	200.000	29.40	203.80	1.041	1.022	bb

Compound name: 13C-23478-PeCDF (SS)
Response Factor: 0.947523
RRF SD: 0.0306791, Relative SD: 3.23782
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	33.02	97.90	0.928	0.948	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	33.01	98.79	0.936	0.948	bb
3	b22oct10a-5	CS2 UD090323-03	100.000	33.01	102.41	0.970	0.948	bb
4	b22oct10a-6	CS3 UD090323-04	100.000	33.01	95.65	0.906	0.948	bb
5	b22oct10a-7	CS4 UD101022-05	100.000	33.02	104.63	0.991	0.948	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	33.02	100.62	0.953	0.948	bb

Compound name: 13C-123478-HxCDF (SS)
Response Factor: 0.766308
RRF SD: 0.0210963, Relative SD: 2.75299
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	34.92	100.38	0.769	0.766	bd
2	b22oct10a-4	CS1 UD090323-02	100.000	34.91	102.37	0.785	0.766	bd
3	b22oct10a-5	CS2 UD090323-03	100.000	34.91	103.67	0.794	0.766	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	34.91	96.12	0.737	0.766	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	34.92	99.13	0.760	0.766	bd
6	b22oct10a-8	CS5 UD090323-06	100.000	34.92	98.33	0.753	0.766	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Compound name: 13C-123478-HxCDD (SS)
Response Factor: 0.78111
RRF SD: 0.0320635, Relative SD: 4.10486
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	35.58	98.57	0.770	0.781	bd
2	b22oct10a-4	CS1 UD090323-02	100.000	35.56	99.16	0.775	0.781	bd
3	b22oct10a-5	CS2 UD090323-03	100.000	35.57	106.94	0.835	0.781	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	35.57	101.83	0.795	0.781	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	35.58	98.86	0.772	0.781	bd
6	b22oct10a-8	CS5 UD090323-06	100.000	35.58	94.64	0.739	0.781	bd

Compound name: 13C-1234789-HpCDF (SS)
Response Factor: 0.77897
RRF SD: 0.0268994, Relative SD: 3.4532
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b22oct10a-3	CS0.5 UD090323-01	100.000	39.13	104.96	0.818	0.779	bb
2	b22oct10a-4	CS1 UD090323-02	100.000	39.12	102.27	0.797	0.779	bd
3	b22oct10a-5	CS2 UD090323-03	100.000	39.13	97.49	0.759	0.779	bd
4	b22oct10a-6	CS3 UD090323-04	100.000	39.13	95.50	0.744	0.779	bd
5	b22oct10a-7	CS4 UD101022-05	100.000	39.13	101.17	0.788	0.779	bb
6	b22oct10a-8	CS5 UD090323-06	100.000	39.13	98.61	0.768	0.779	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: 25 Oct 2010 09:24:23

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.95e3	2.51e3	4.46e3	29.40	1.00	0.78	NO	0.234	0.866	0.0246	2.26e4	752	30.1	2.95e4	847	34.8	bb
2	12378-PeCDD	1.09e4	7.09e3	1.80e4	33.21	1.00	1.54	NO	1.171	0.929	0.0573	2.33e5	3020	77.3	1.48e5	3156	46.8	bb
3	123478-HxCDD	9.10e3	7.16e3	1.63e4	35.59	1.00	1.27	NO	1.155	0.724	0.0462	1.79e5	1242	144.4	1.37e5	2330	58.9	bd
4	123678-HxCDD	1.08e4	8.25e3	1.90e4	35.66	1.00	1.31	NO	1.152	0.847	0.0394	1.79e5	1242	143.7	1.48e5	2330	63.5	dd
5	123789-HxCDD	9.34e3	7.78e3	1.71e4	35.87	1.01	1.20	NO	1.139	0.762	0.0433	1.57e5	1242	126.2	1.32e5	2330	56.5	db
6	1234678-HpCDD	6.89e3	7.01e3	1.39e4	38.58	1.00	0.98	NO	1.129	0.890	0.0426	1.04e5	1075	97.1	9.69e4	1165	83.2	bd
7	OCDD	1.16e4	1.22e4	2.38e4	42.23	1.00	0.95	NO	2.243	0.880	0.0737	1.28e5	1323	96.6	1.42e5	1291	110.2	bd
8	2378-TCDF	3.27e3	4.09e3	7.36e3	28.49	1.00	0.80	NO	0.254	0.953	0.0291	3.40e4	968	35.1	4.82e4	1951	24.7	bb
9	12378-PeCDF	1.63e4	1.10e4	2.73e4	32.44	1.00	1.48	NO	1.155	0.821	0.0245	3.85e5	2173	177.1	2.30e5	2014	114.3	bd
10	23478-PeCDF	1.68e4	1.17e4	2.85e4	33.03	1.02	1.44	NO	1.190	0.856	0.0242	3.84e5	2173	176.6	2.63e5	2014	130.4	bb
11	123478-HxCDF	1.31e4	1.05e4	2.37e4	34.93	1.00	1.25	NO	1.220	0.825	0.0442	2.64e5	2533	104.3	2.20e5	2354	93.6	bd
12	123678-HxCDF	1.61e4	1.30e4	2.90e4	35.02	1.00	1.24	NO	1.204	1.010	0.0357	2.97e5	2533	117.1	2.46e5	2354	104.7	dd
13	234678-HxCDF	1.52e4	1.23e4	2.76e4	35.47	1.01	1.23	NO	1.274	0.959	0.0397	2.79e5	2533	110.3	2.16e5	2354	91.8	bd
14	123789-HxCDF	1.27e4	9.34e3	2.20e4	36.15	1.03	1.35	NO	1.253	0.765	0.0490	2.07e5	2533	81.7	1.60e5	2354	67.8	bd
15	1234678-HpCDF	1.06e4	1.14e4	2.20e4	37.47	1.00	0.93	NO	1.142	1.153	0.0262	1.79e5	1246	143.9	1.81e5	1475	122.6	bd
16	1234789-HpCDF	8.64e3	8.99e3	1.76e4	39.14	1.05	0.96	NO	1.202	0.923	0.0345	1.21e5	1246	97.3	1.19e5	1475	80.4	bb
17	OCDF	1.26e4	1.46e4	2.71e4	42.50	1.01	0.86	NO	2.094	1.002	0.0645	1.41e5	1484	95.0	1.42e5	1306	108.3	bd
18	13C-2378-TCDD	9.08e5	1.15e6	2.06e6	29.38	1.03	0.79	NO	102.485	1.135	0.0962	9.28e6	3576	2595.3	1.14e7	3207	3567.2	bb
19	13C-12378-PeCDD	9.47e5	6.05e5	1.55e6	33.20	1.16	1.57	NO	102.725	0.856	0.117	1.99e7	2672	7445.0	1.25e7	3543	3537.8	bb
20	13C-123678-HxCDD	1.01e6	7.90e5	1.80e6	35.65	0.99	1.28	NO	95.664	1.047	0.133	1.66e7	6139	2703.3	1.33e7	5896	2259.4	dd
21	13C-1234678-HpCDD	6.39e5	6.10e5	1.25e6	38.57	1.08	1.05	NO	96.460	0.727	0.195	8.19e6	6885	1190.1	7.81e6	5266	1482.2	bd
22	13C-OCDD	1.04e6	1.13e6	2.16e6	42.22	1.18	0.92	NO	191.699	0.630	0.200	1.04e7	4676	2219.6	1.14e7	6202	1841.0	bd
23	13C-2378-TCDF	1.37e6	1.72e6	3.09e6	28.45	0.99	0.79	NO	98.772	1.703	0.0420	1.42e7	2051	6918.7	1.76e7	2558	6879.6	bb
24	13C-12378-PeCDF	1.65e6	1.02e6	2.66e6	32.43	1.13	1.62	NO	103.723	1.467	0.106	3.57e7	4533	7881.1	2.12e7	4978	4263.3	bb
25	13C-123678-HxCDF	8.11e5	1.49e6	2.30e6	35.01	0.98	0.55	NO	90.840	1.338	0.147	1.38e7	8510	1625.8	2.62e7	9330	2812.7	db
26	13C-1234678-HpCDF	4.69e5	1.06e6	1.53e6	37.45	1.04	0.44	NO	92.453	0.889	0.177	7.56e6	6141	1231.1	1.69e7	7949	2124.8	bb
27	13C-1234-TCDD	7.99e5	1.02e6	1.81e6	28.66	0.00	0.79	NO	100.000	1.000	0.106	8.41e6	3576	2353.0	1.08e7	3207	3354.2	bb
28	13C-123789-HxCDD	9.58e5	7.59e5	1.72e6	35.86	0.00	1.26	NO	100.000	1.000	0.146	1.38e7	6139	2250.8	1.12e7	5896	1892.1	dd
29	37Cl-2378-TCDD (SS)	5.06e3		5.06e3	29.38	1.00			0.240	0.982	0.0310	5.41e4	2219	24.4				bb
30	13C-23478-PeCDF (SS)	1.51e6	9.59e5	2.47e6	33.02	1.02	1.57	NO	97.904	0.928	0.0521	3.40e7	4533	7499.3	2.07e7	4978	4150.1	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

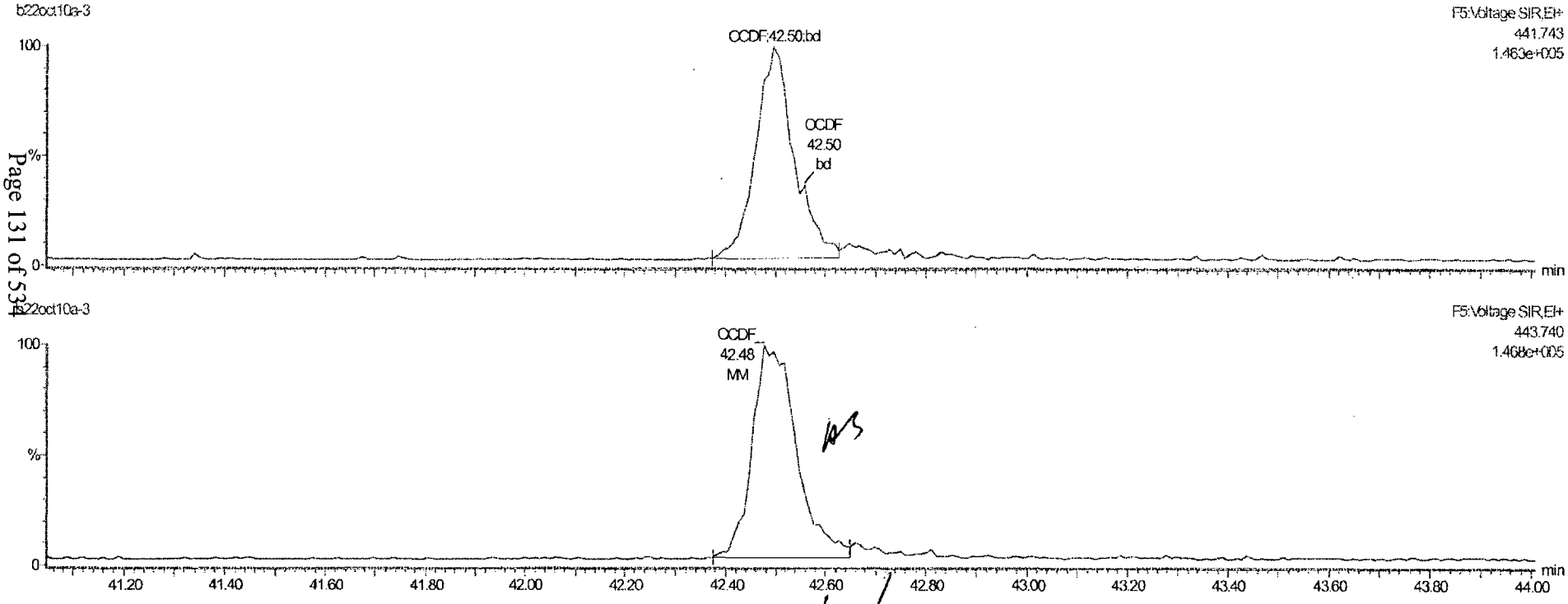
Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-123478-HxCDF (SS)	6.07e5	1.16e6	1.77e6	34.92	1.00	0.52	NO	100.378	0.769	0.178	1.27e7	8510	1494.6	2.38e7	9330	2547.5	bd
32	13C-123478-HxCDD (SS)	7.69e5	6.15e5	1.38e6	35.58	1.00	1.25	NO	98.566	0.770	0.156	1.48e7	6139	2409.0	1.18e7	5896	1997.4	bd
33	13C-1234789-HpCDF (SS)	3.76e5	8.74e5	1.25e6	39.13	1.04	0.43	NO	104.957	0.818	0.220	4.89e6	6141	795.6	1.09e7	7949	1371.0	bb

MANUAL INTEGRATION



HMP 26Oct10

Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

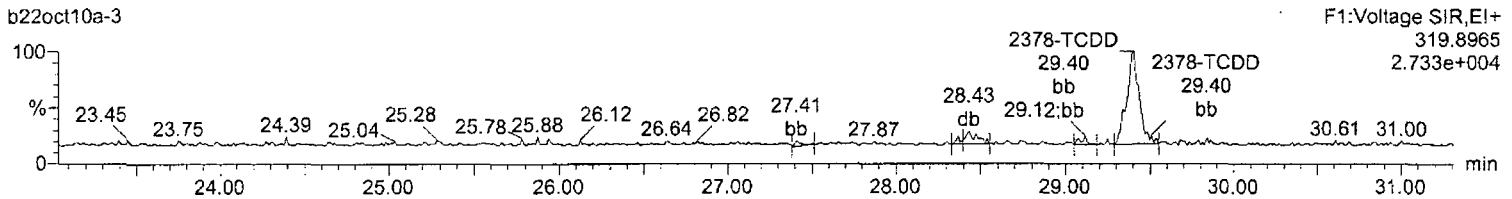
Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

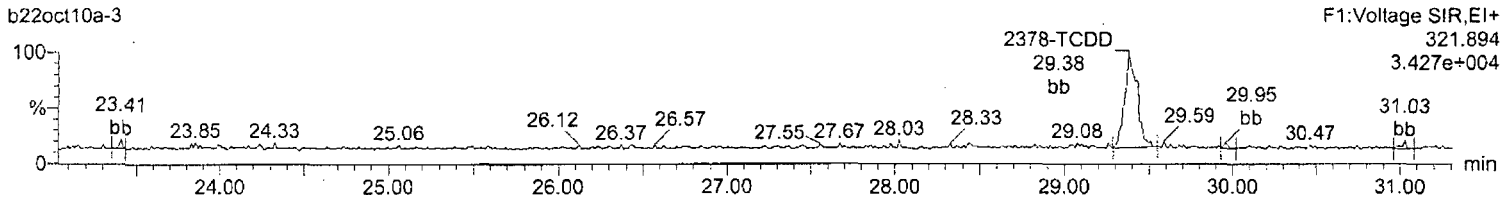
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: 25 Oct 2010 09:11:30

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

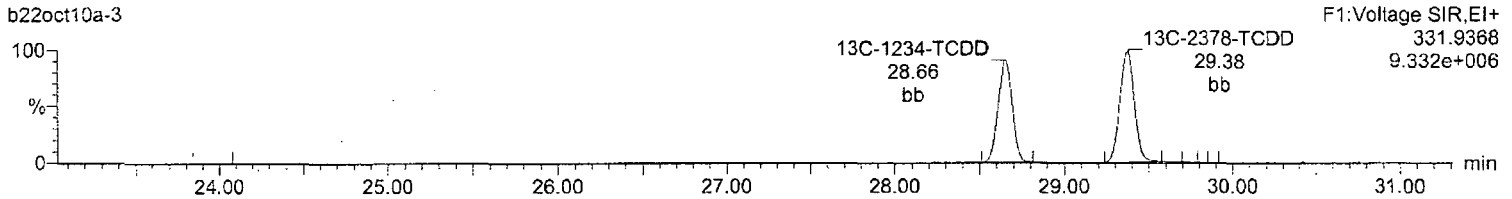
Total-tetradioxins



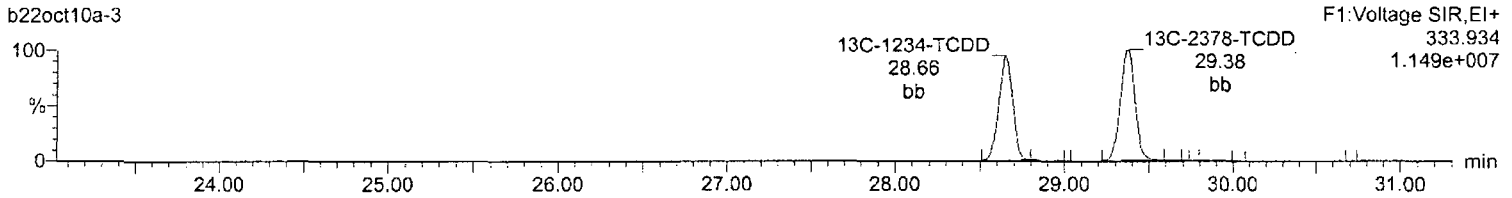
Total-tetradioxins



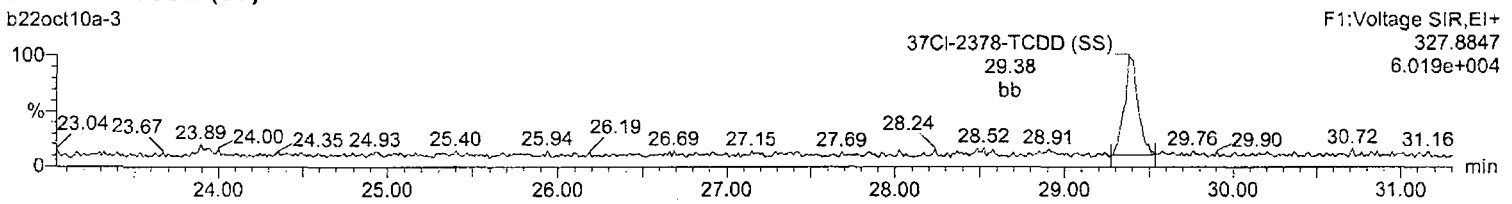
13C-2378-TCDD



13C-2378-TCDD



37Cl-2378-TCDD (SS)



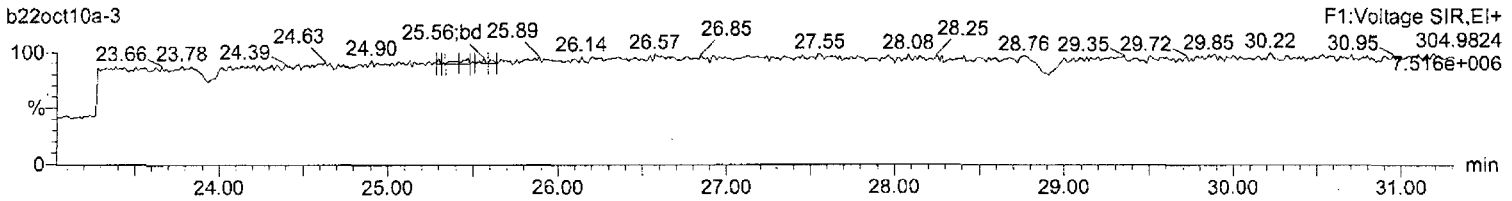
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

Lock Mass F1



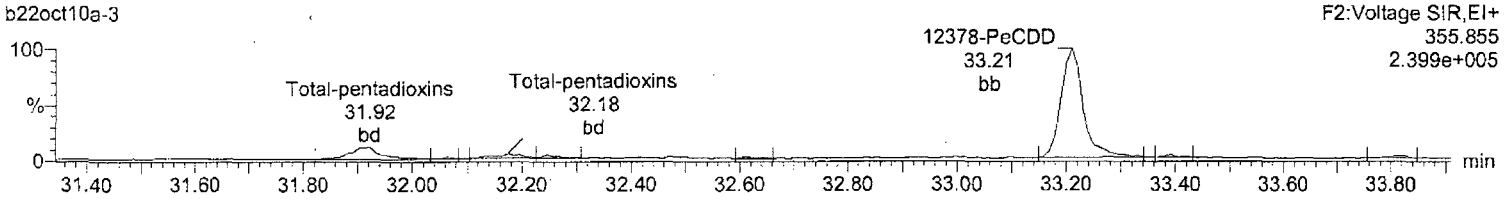
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

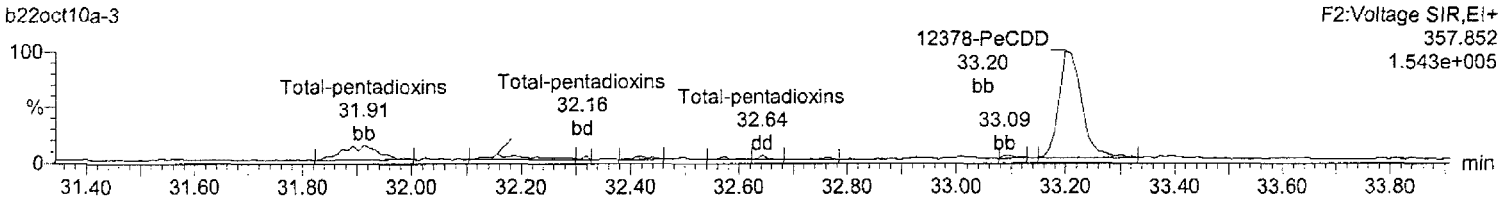
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

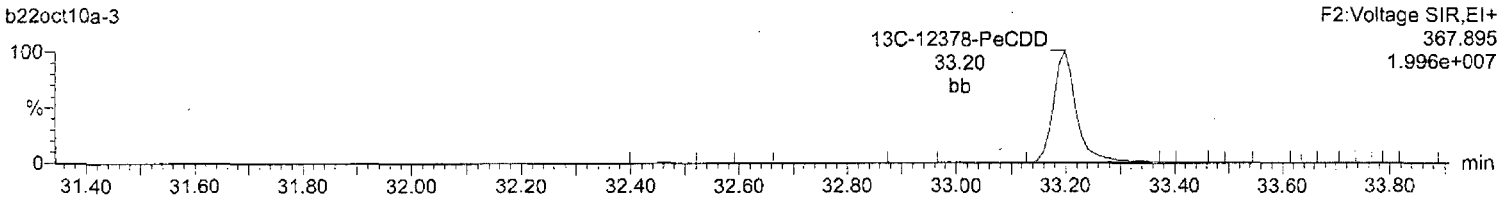
Total-pentadioxins



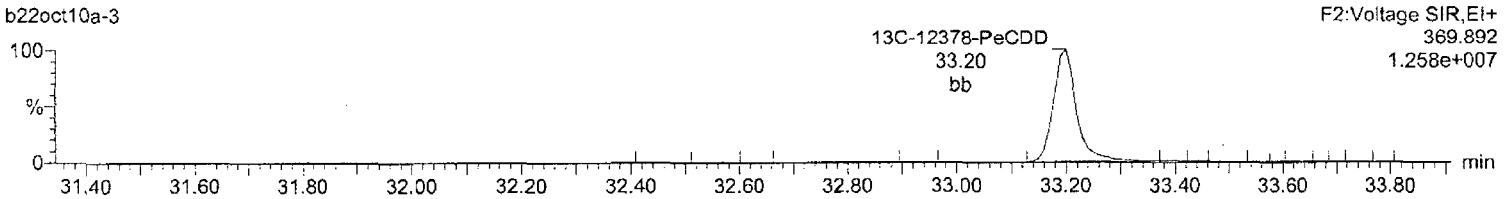
Total-pentadioxins



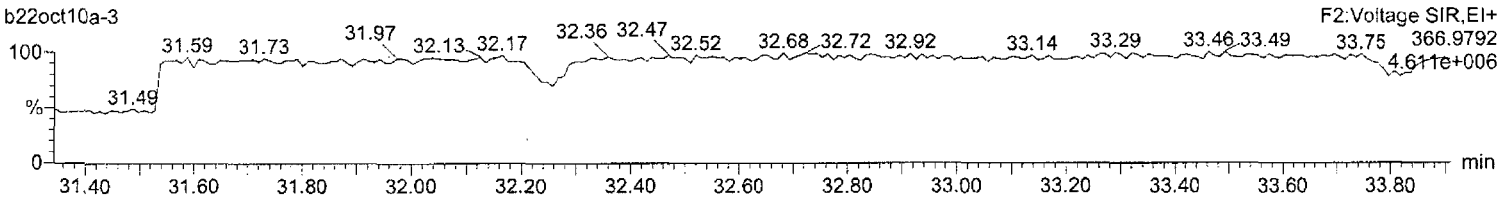
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



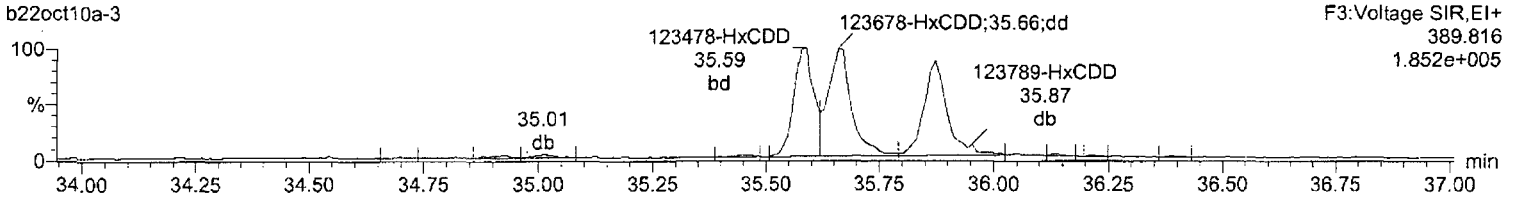
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

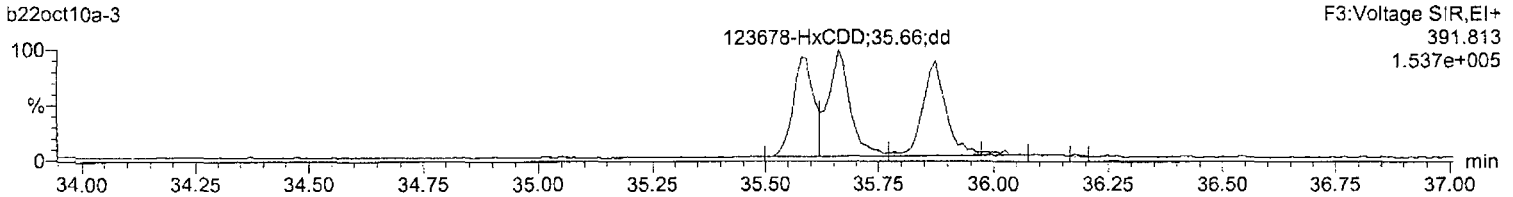
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

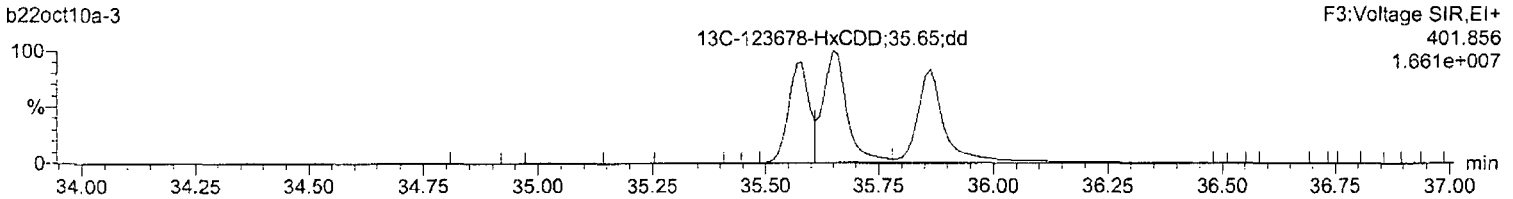
Total-hexadioxins



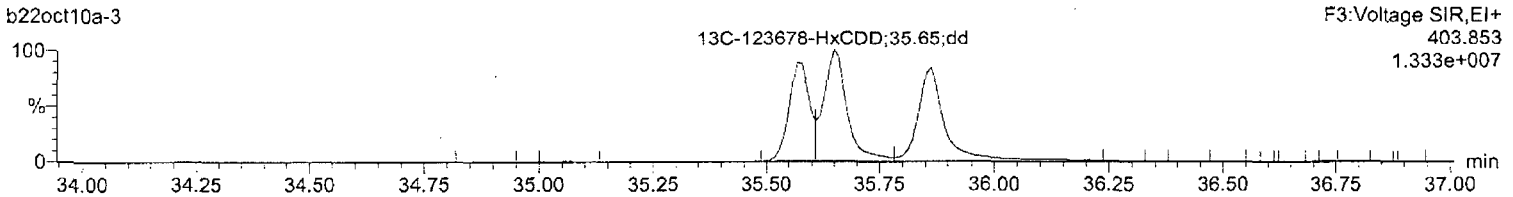
Total-hexadioxins



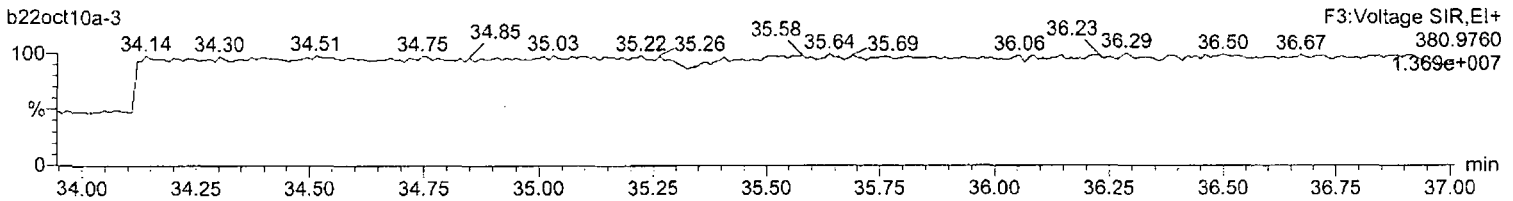
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



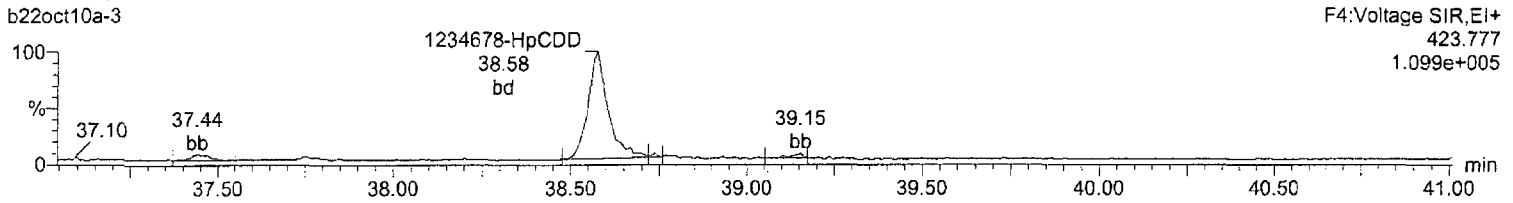
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

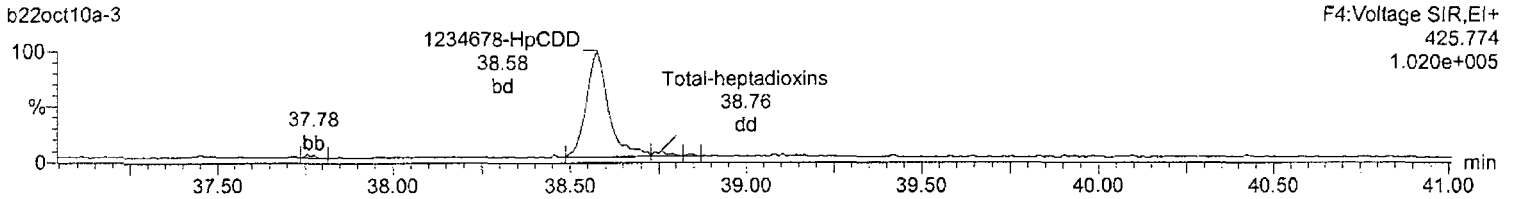
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

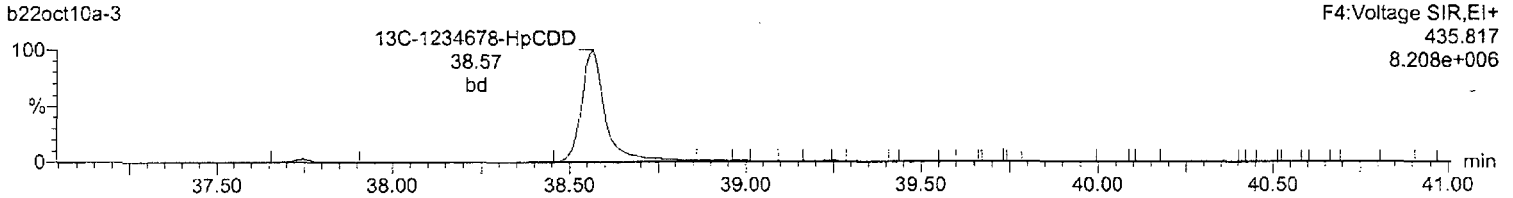
Total-heptadioxins



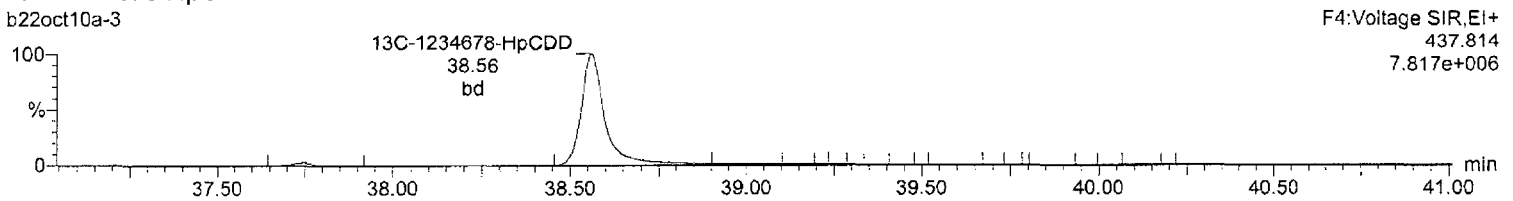
Total-heptadioxins



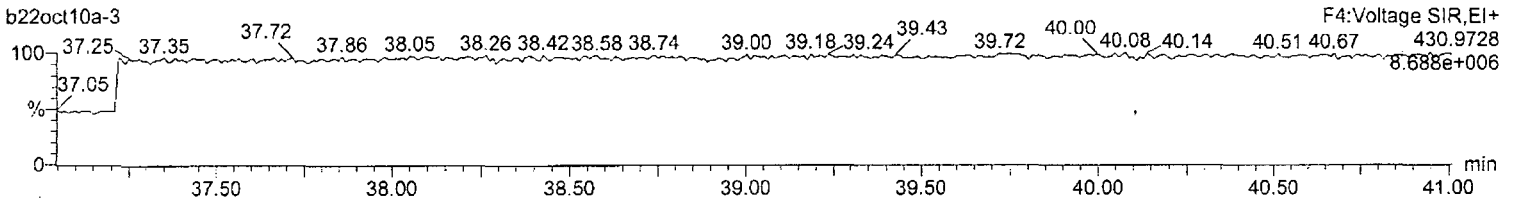
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



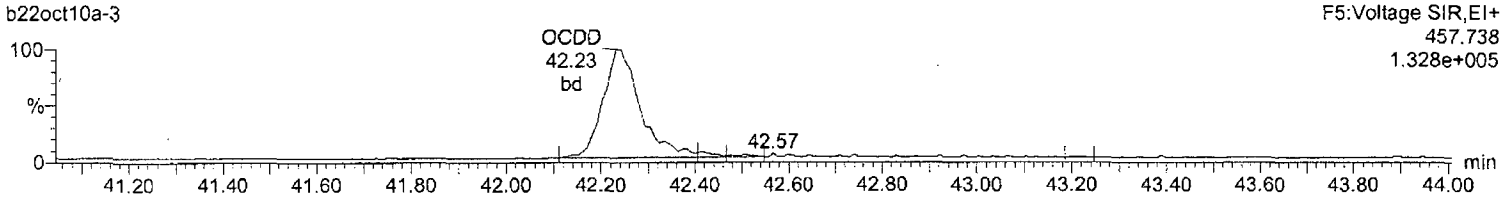
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

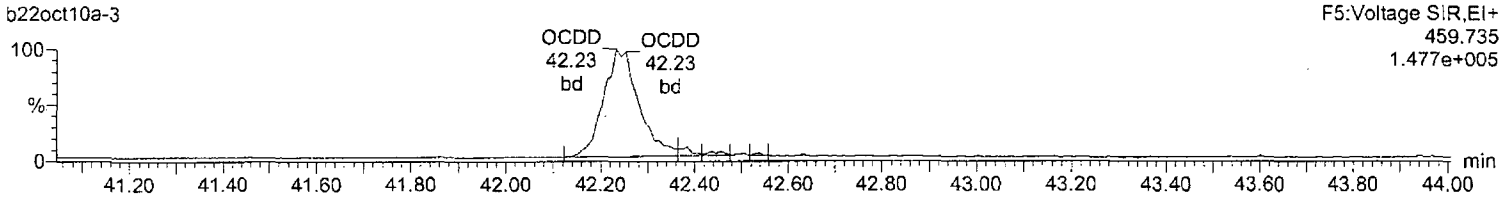
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

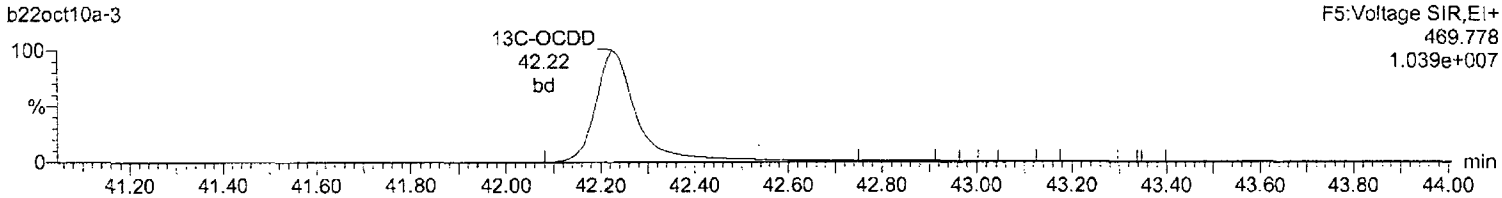
OCDD



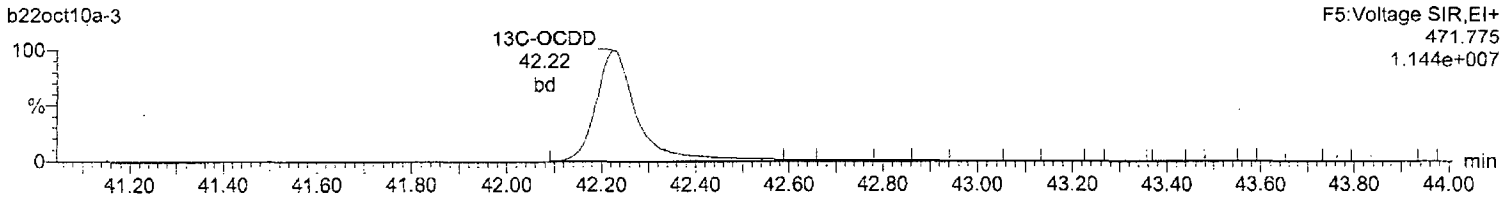
OCDD



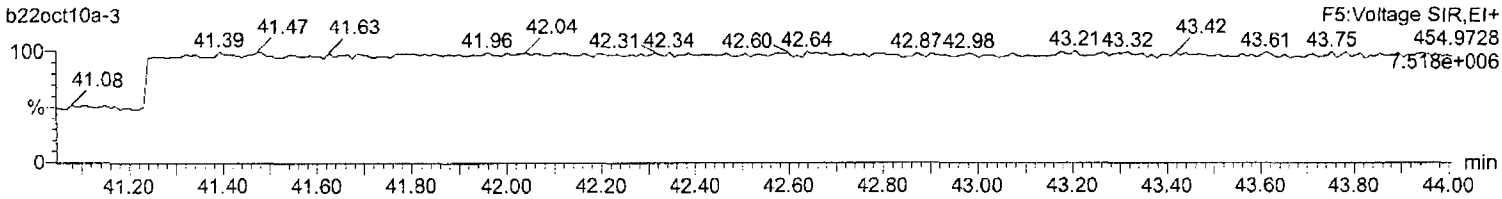
13C-OCDD



13C-OCDD



Lock Mass F5



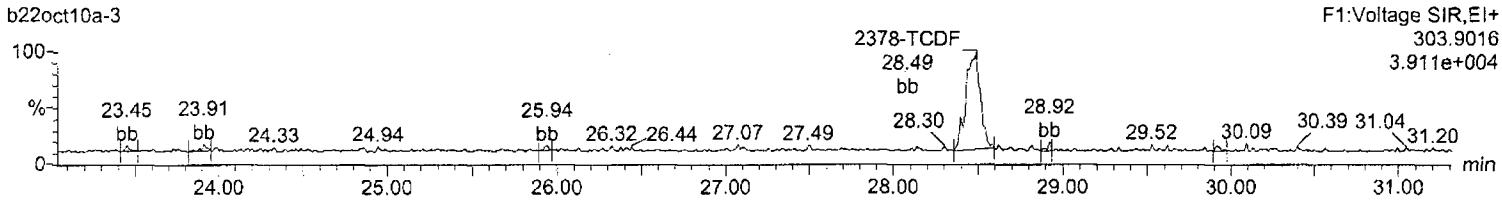
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

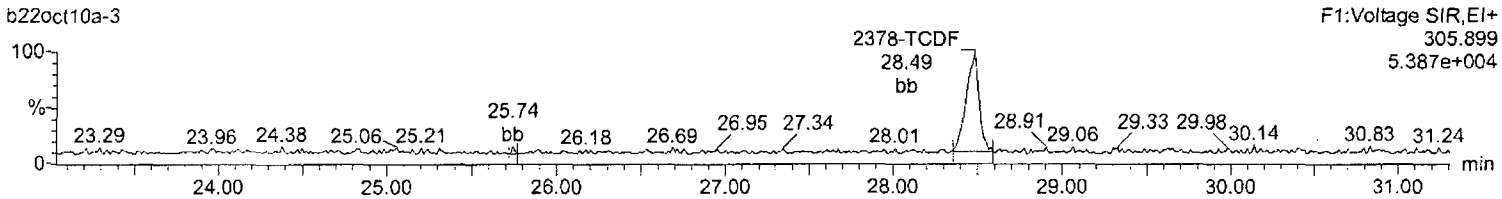
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

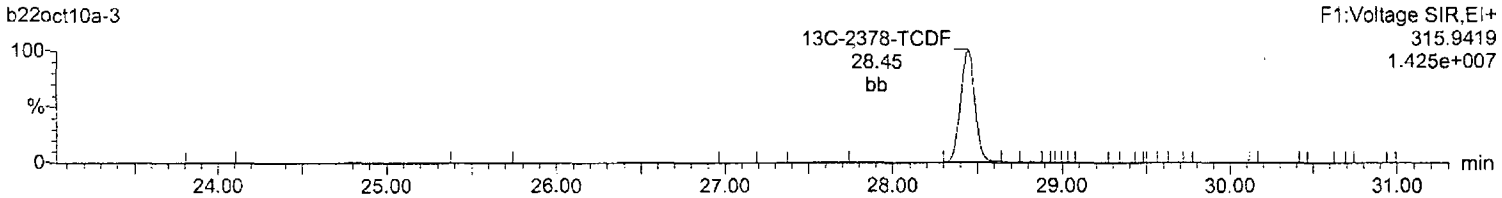
Total-tetrafurans



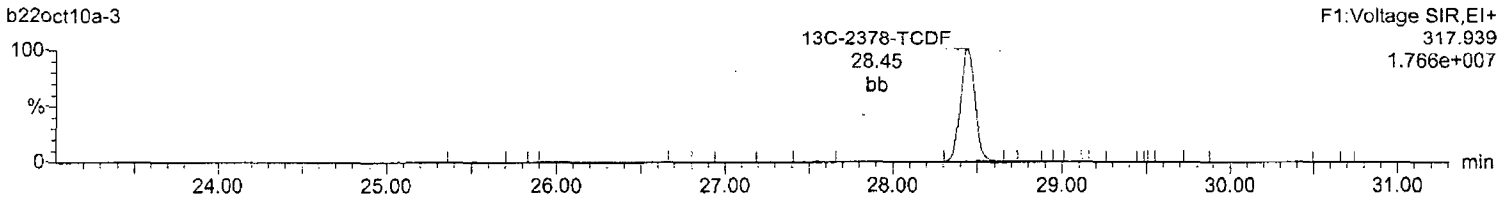
Total-tetrafurans



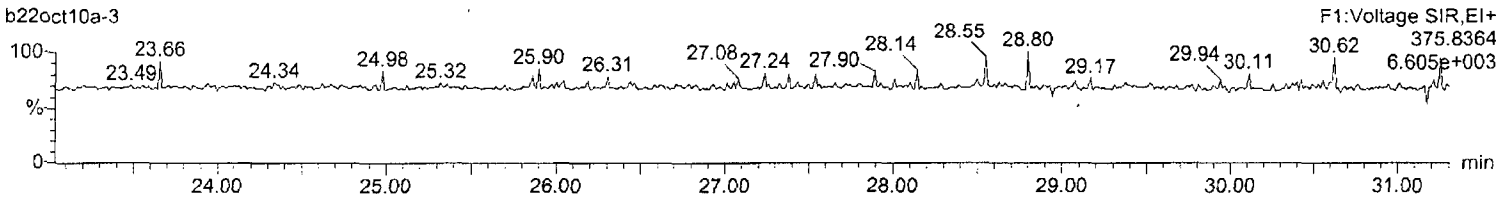
13C-2378-TCDF



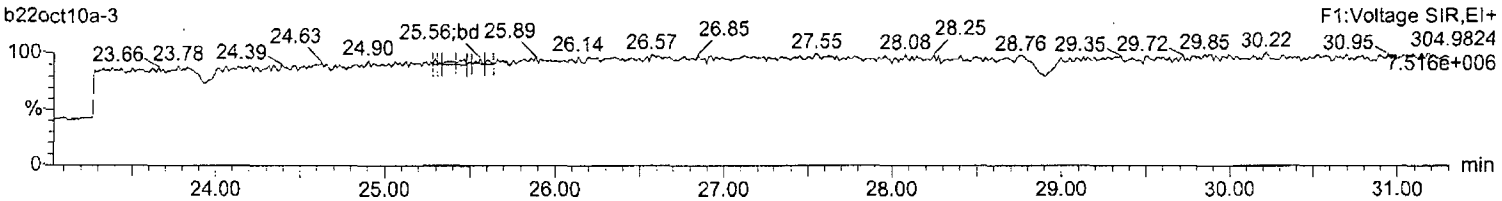
13C-2378-TCDF



HxDPE



Lock Mass F1



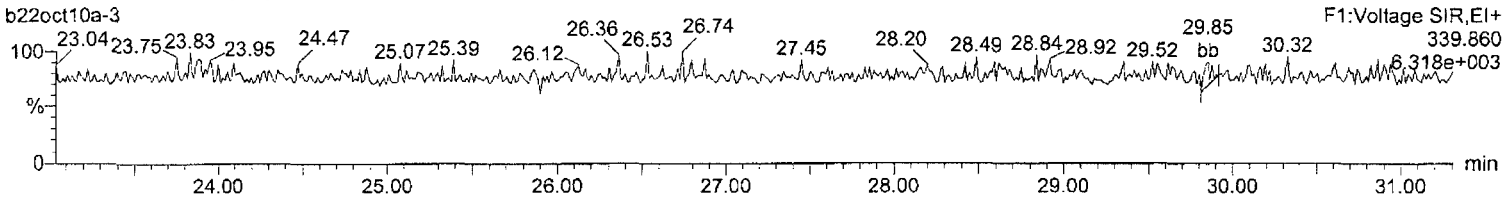
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

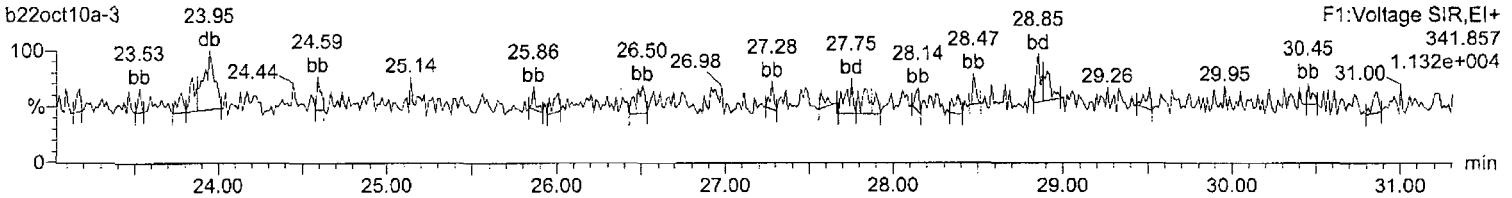
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

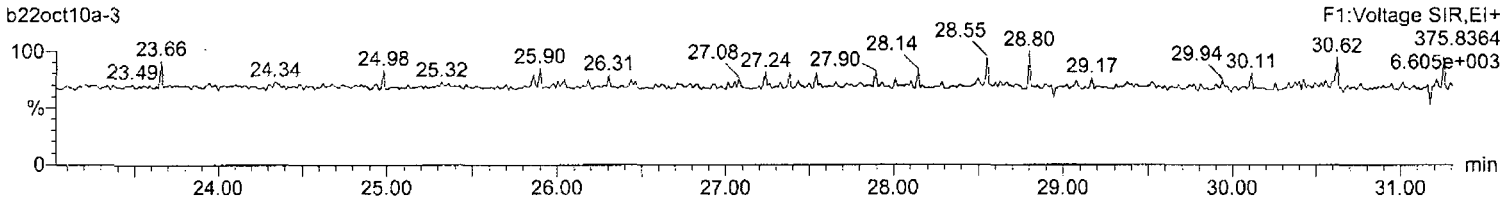
Total-pentafurans (F1)



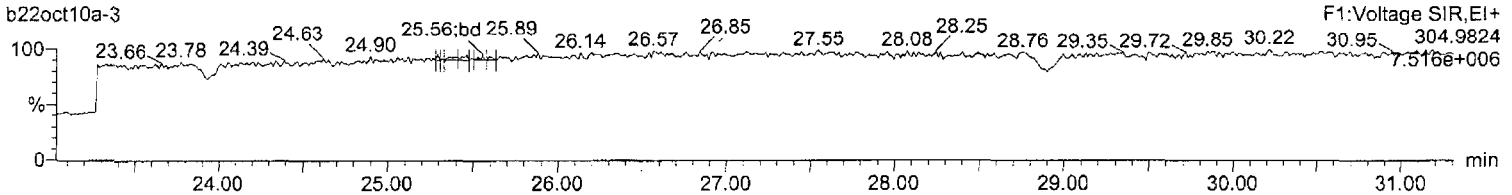
Total-pentafurans (F1)



HxDPE



Lock Mass F1



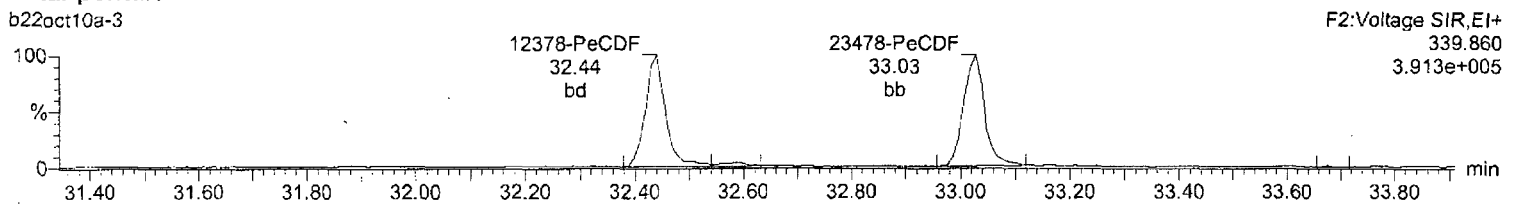
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

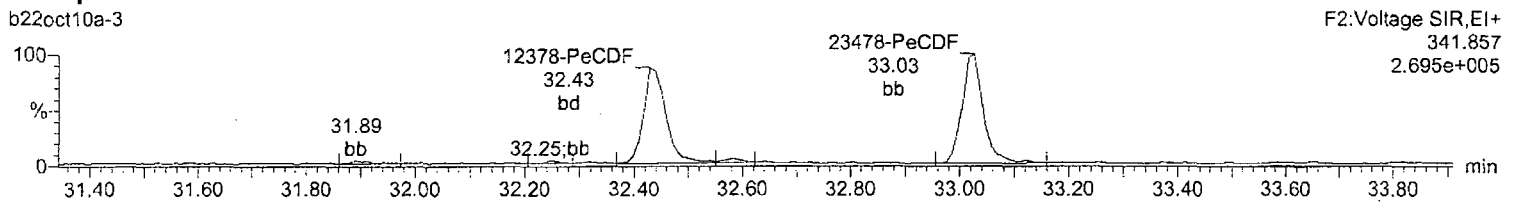
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

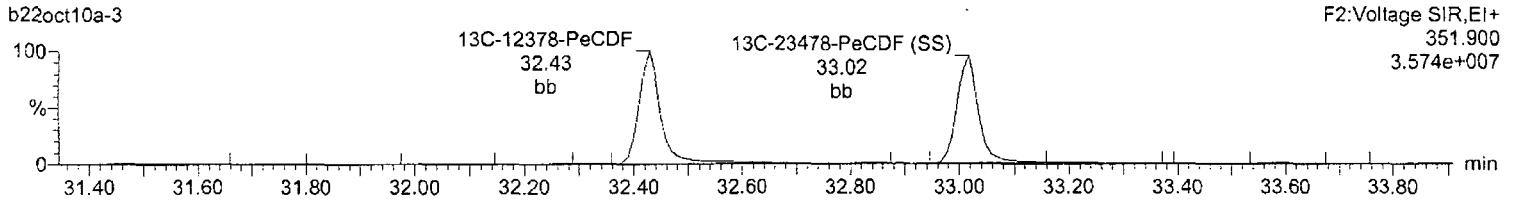
Total-pentafurans



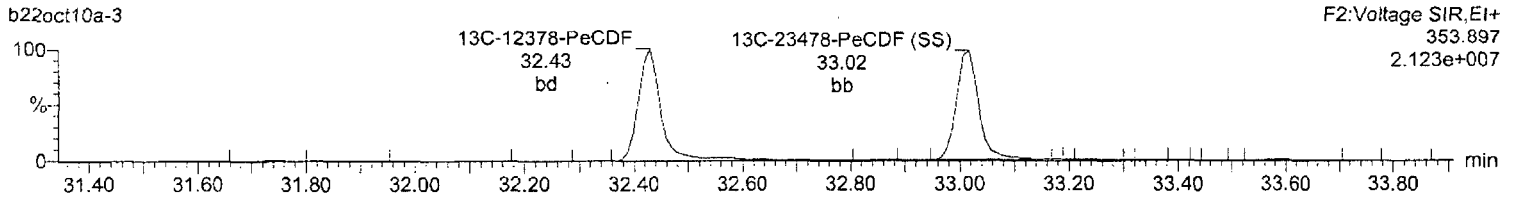
Total-pentafurans



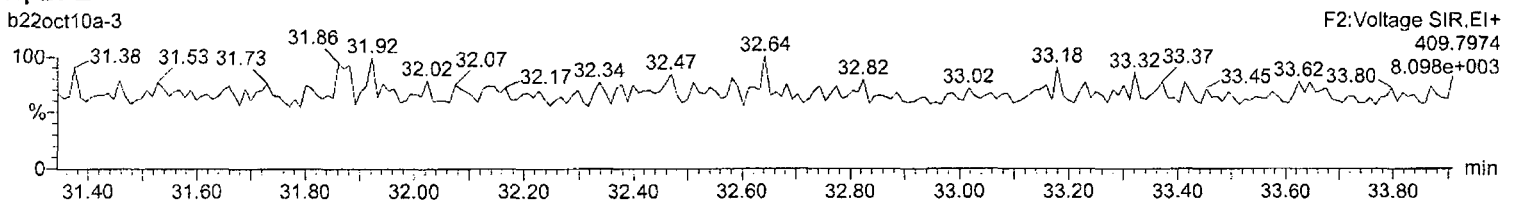
13C-12378-PeCDF



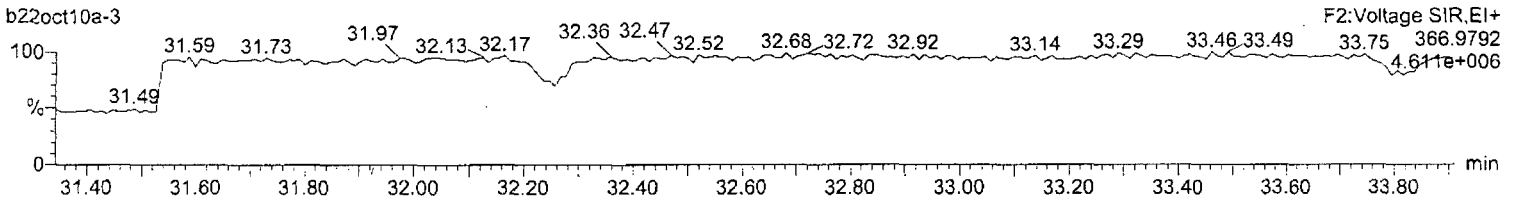
13C-12378-PeCDF



HpDPE



Lock Mass F2



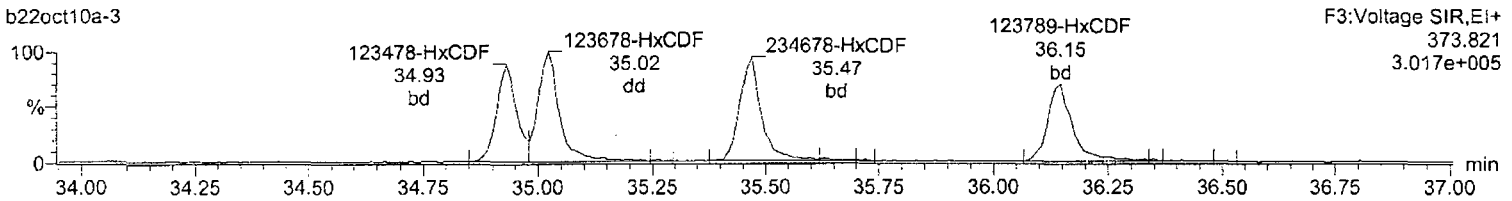
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

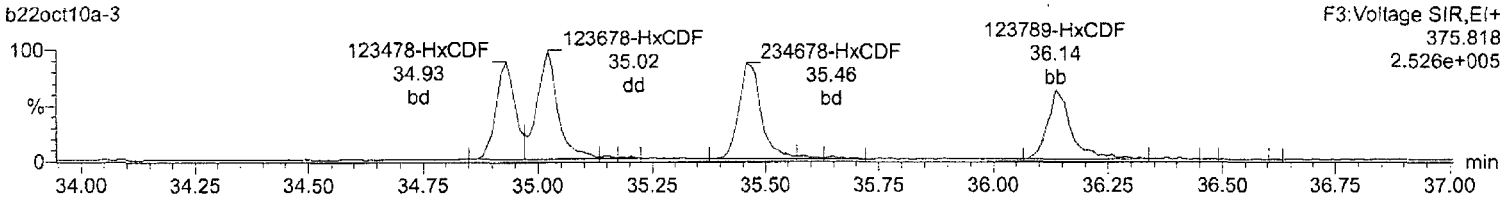
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

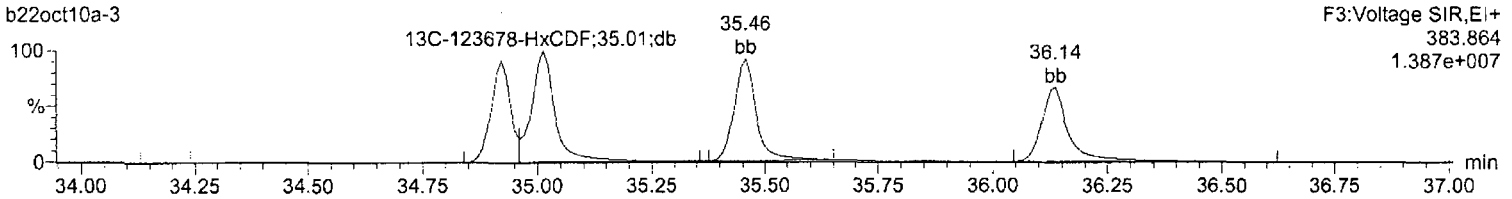
Total-hexafurans



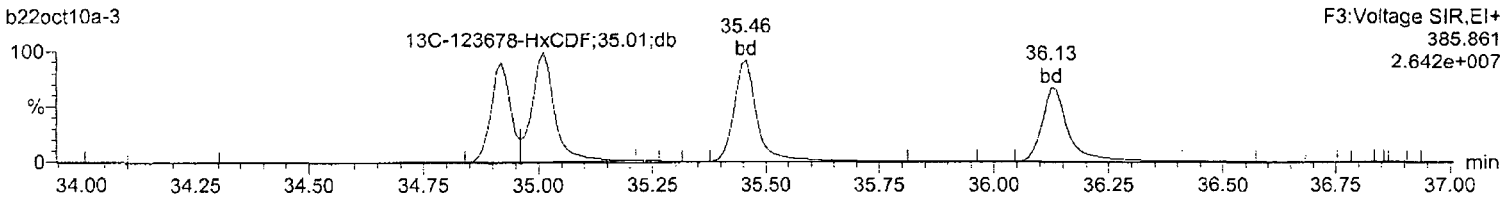
Total-hexafurans



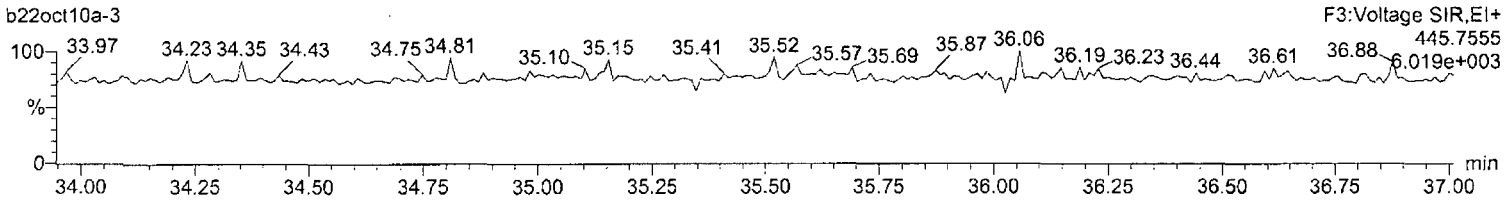
13C-123678-HxCDF



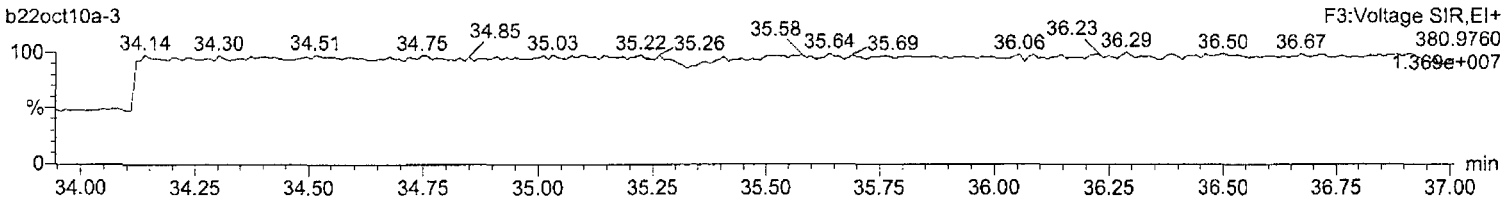
13C-123678-HxCDF



OcDPE



Lock Mass F3



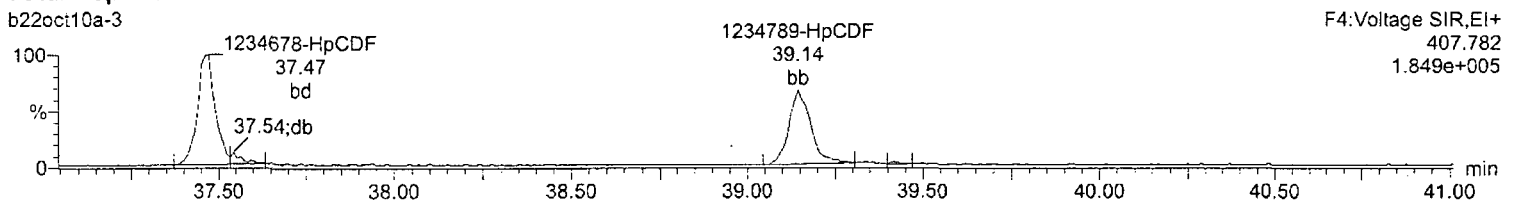
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

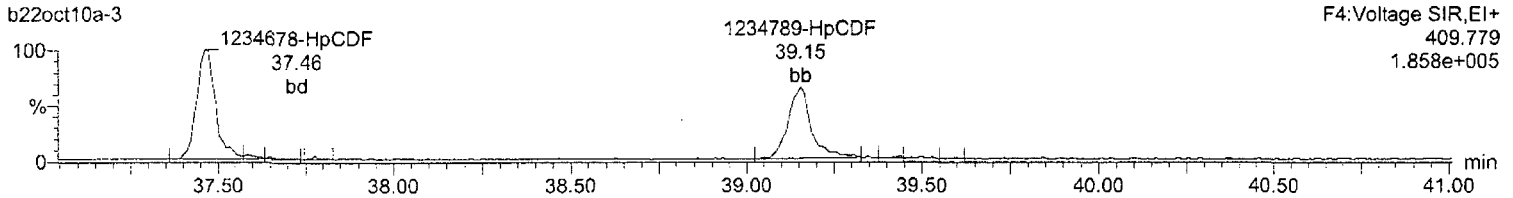
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

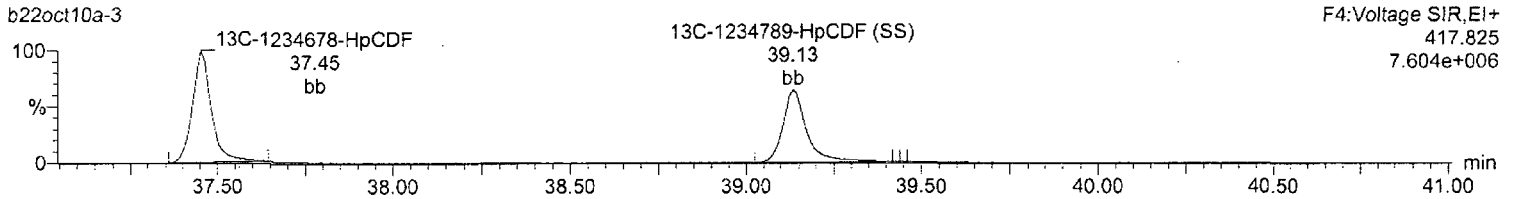
Total-heptafurans



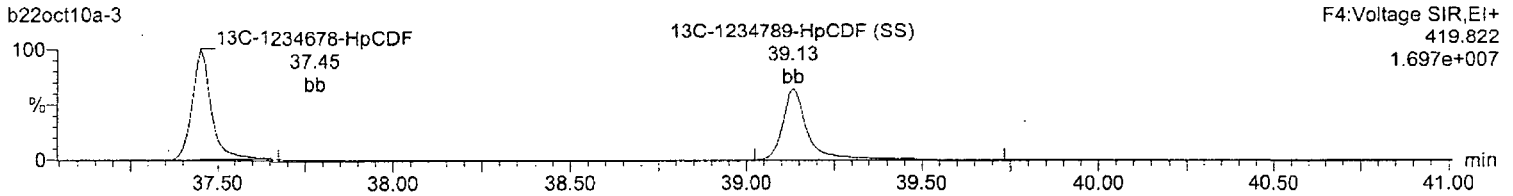
Total-heptafurans



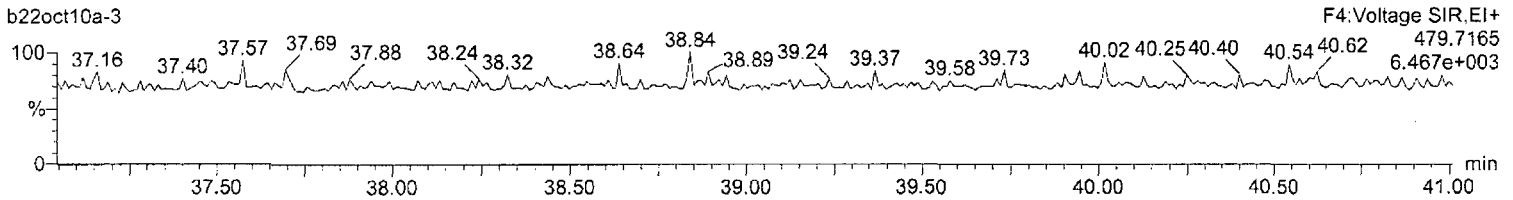
13C-1234678-HpCDF



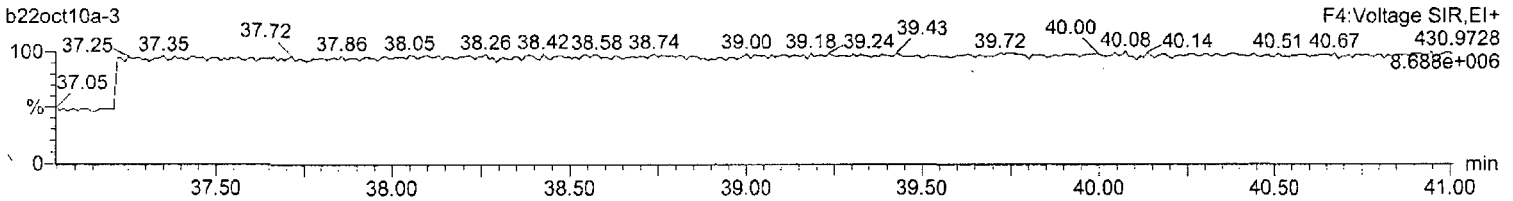
13C-1234678-HpCDF



NoDPE



Lock Mass F4



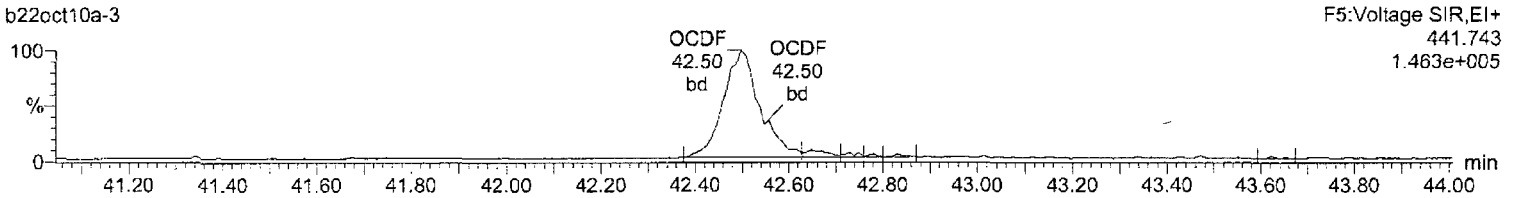
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

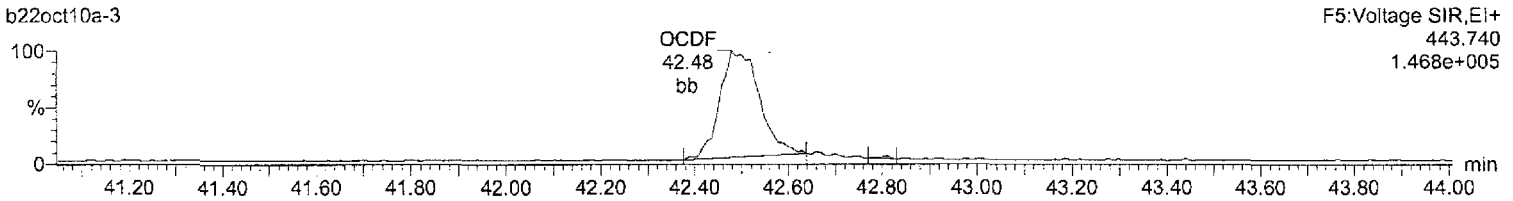
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-3, Date: 22-Oct-2010, Time: 12:18:43, ID: CS0.5 UD090323-01, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

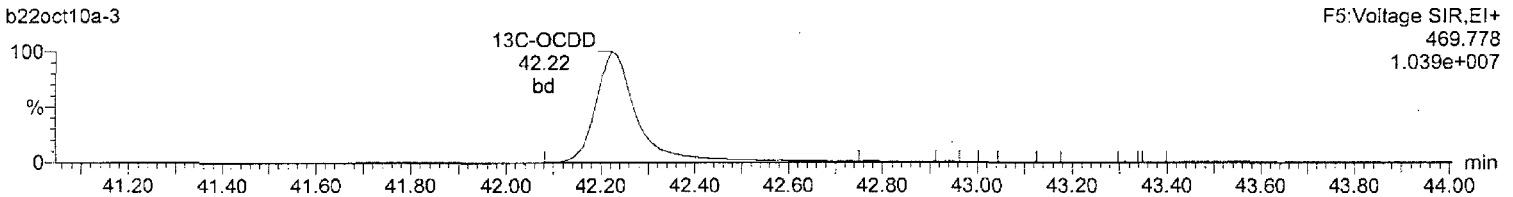
OCDF



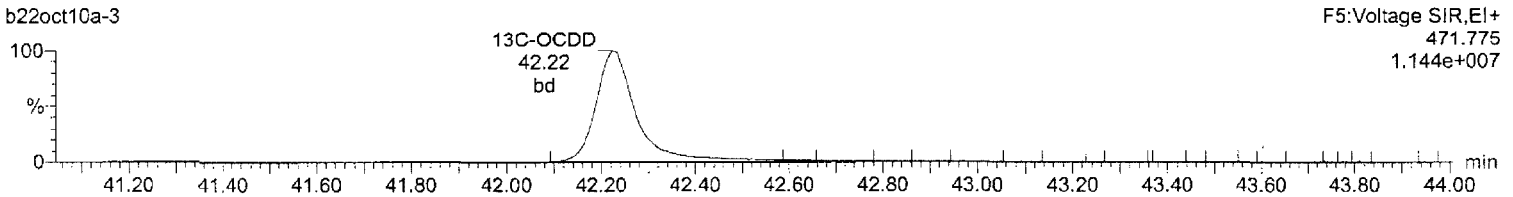
OCDF



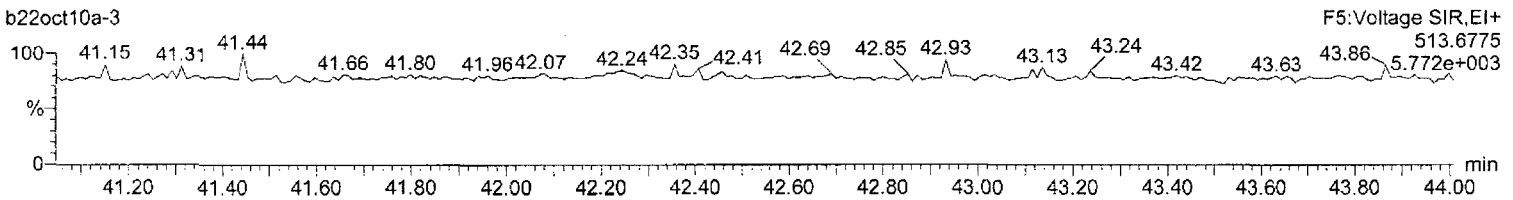
13C-OCDD



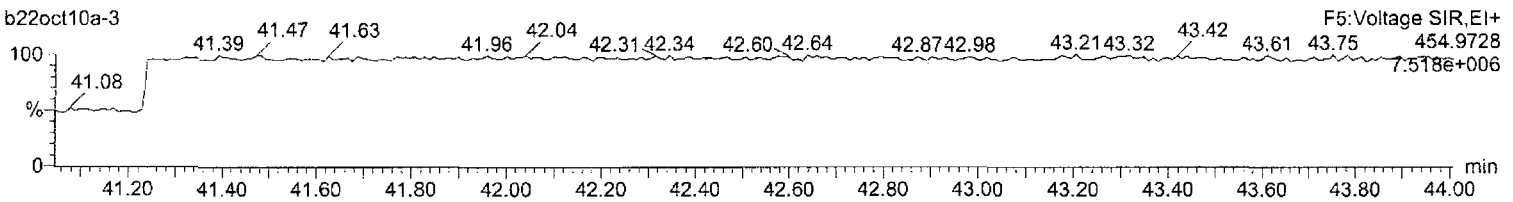
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.98e3	2.44e3	4.42e3	29.39	1.00	0.81	NO	0.471	0.871	0.0416	2.25e4	576	39.1	2.55e4	736	34.7	bb
2	12378-PeCDD	1.10e4	6.91e3	1.79e4	33.20	1.00	1.60	NO	2.388	0.947	0.0356	2.51e5	975	258.0	1.51e5	874	172.6	bd
3	123478-HxCDD	8.38e3	6.64e3	1.50e4	35.57	1.00	1.26	NO	2.297	0.720	0.0699	1.71e5	1205	141.7	1.30e5	1324	98.1	bd
4	123678-HxCDD	1.05e4	8.18e3	1.87e4	35.66	1.00	1.28	NO	2.436	0.895	0.0596	1.75e5	1205	145.4	1.41e5	1324	106.6	dd
5	123789-HxCDD	9.33e3	6.70e3	1.60e4	35.86	1.01	1.39	NO	2.298	0.769	0.0655	1.44e5	1205	119.8	1.19e5	1324	89.8	dd
6	1234678-HpCDD	6.66e3	6.54e3	1.32e4	38.57	1.00	1.02	NO	2.331	0.919	0.0846	9.49e4	983	96.6	9.38e4	1153	81.4	bd
7	OCDD	1.05e4	1.15e4	2.20e4	42.22	1.00	0.91	NO	4.676	0.918	0.122	1.16e5	1016	114.3	1.22e5	933	130.6	bd
8	2378-TCDF	3.09e3	3.99e3	7.08e3	28.47	1.00	0.77	NO	0.492	0.923	0.0374	3.45e4	640	53.8	4.70e4	1250	37.6	bb
9	12378-PeCDF	1.58e4	1.02e4	2.60e4	32.43	1.00	1.54	NO	2.348	0.834	0.0543	3.53e5	1850	190.6	2.22e5	2408	92.3	bd
10	23478-PeCDF	1.64e4	1.05e4	2.69e4	33.02	1.02	1.57	NO	2.399	0.863	0.0536	3.63e5	1850	196.3	2.45e5	2408	101.7	bb
11	123478-HxCDF	1.19e4	9.96e3	2.19e4	34.92	1.00	1.20	NO	2.399	0.811	0.0778	2.65e5	2396	110.4	2.10e5	1752	119.9	bd
12	123678-HxCDF	1.52e4	1.12e4	2.64e4	35.01	1.00	1.36	NO	2.328	0.976	0.0627	2.75e5	2396	114.8	2.29e5	1752	130.9	dd
13	234678-HxCDF	1.30e4	1.11e4	2.40e4	35.46	1.01	1.17	NO	2.365	0.890	0.0698	2.57e5	2396	107.5	2.14e5	1752	122.1	bb
14	123789-HxCDF	1.07e4	8.55e3	1.93e4	36.14	1.03	1.26	NO	2.340	0.714	0.0861	1.72e5	2396	71.6	1.37e5	1752	78.4	bb
15	1234678-HpCDF	1.10e4	1.05e4	2.16e4	37.44	1.00	1.05	NO	2.399	1.211	0.0680	1.60e5	1701	94.1	1.66e5	1434	115.8	bd
16	1234789-HpCDF	7.63e3	8.14e3	1.58e4	39.15	1.05	0.94	NO	2.303	0.885	0.0893	1.12e5	1701	65.8	1.08e5	1434	75.5	bd
17	OCDF	1.19e4	1.34e4	2.53e4	42.48	1.01	0.89	NO	4.404	1.054	0.109	1.30e5	850	153.2	1.46e5	1282	114.2	bd
18	13C-2378-TCDD	4.48e5	5.66e5	1.01e6	29.36	1.03	0.79	NO	100.776	1.116	0.130	4.52e6	2745	1646.2	5.68e6	1948	2914.4	bb
19	13C-12378-PeCDD	4.63e5	2.94e5	7.57e5	33.19	1.16	1.58	NO	100.064	0.834	0.200	9.62e6	2888	3332.2	6.06e6	2530	2397.0	bd
20	13C-123678-HxCDD	4.67e5	3.67e5	8.34e5	35.64	0.99	1.27	NO	97.950	1.072	0.150	7.76e6	4430	1751.1	6.29e6	2281	2756.6	dd
21	13C-1234678-HpCDD	2.98e5	2.77e5	5.74e5	38.56	1.08	1.08	NO	97.873	0.738	0.256	3.98e6	4688	849.7	3.80e6	3220	1181.0	bd
22	13C-OCDD	4.55e5	5.05e5	9.60e5	42.21	1.18	0.90	NO	187.520	0.616	0.323	4.64e6	3757	1234.6	5.14e6	4954	1037.7	bd
23	13C-2378-TCDF	6.83e5	8.50e5	1.53e6	28.45	0.99	0.80	NO	97.834	1.687	0.0683	7.18e6	1585	4532.8	8.91e6	2247	3965.1	bb
24	13C-12378-PeCDF	7.65e5	4.82e5	1.25e6	32.42	1.13	1.59	NO	97.012	1.372	0.274	1.63e7	5465	2975.9	1.03e7	7154	1434.6	bb
25	13C-123678-HxCDF	3.70e5	7.10e5	1.08e6	35.00	0.98	0.52	NO	94.164	1.387	0.265	6.49e6	6839	949.1	1.25e7	9140	1366.6	db
26	13C-1234678-HpCDF	2.27e5	4.86e5	7.13e5	37.44	1.04	0.47	NO	95.167	0.916	0.250	3.49e6	4539	769.8	7.64e6	5331	1433.2	bb
27	13C-1234-TCDD	4.00e5	5.09e5	9.09e5	28.64	0.00	0.79	NO	100.000	1.000	0.144	4.30e6	2745	1566.2	5.41e6	1948	2778.0	bb
28	13C-123789-HxCDD	4.29e5	3.49e5	7.79e5	35.85	0.00	1.23	NO	100.000	1.000	0.164	6.78e6	4430	1529.7	5.44e6	2281	2383.6	dd
29	37Cl-2378-TCDD (SS)	5.07e3		5.07e3	29.39	1.00			0.489	0.999	0.0450	5.11e4	1569	32.6				bd
30	13C-23478-PeCDF (SS)	7.16e5	4.51e5	1.17e6	33.01	1.02	1.59	NO	98.791	0.936	0.151	1.65e7	5465	3018.4	1.02e7	7154	1422.7	bb
31	13C-123478-HxCDF (SS)	2.89e5	5.59e5	8.47e5	34.91	1.00	0.52	NO	102.374	0.785	0.330	6.10e6	6839	892.1	1.17e7	9140	1281.6	bd
32	13C-123478-HxCDD (SS)	3.59e5	2.87e5	6.46e5	35.56	1.00	1.25	NO	99.160	0.775	0.186	7.21e6	4430	1628.1	5.65e6	2281	2478.7	bd
33	13C-1234789-HpCDF (SS)	1.76e5	3.91e5	5.68e5	39.12	1.04	0.45	NO	102.274	0.797	0.347	2.30e6	4539	506.6	5.05e6	5331	947.9	bd

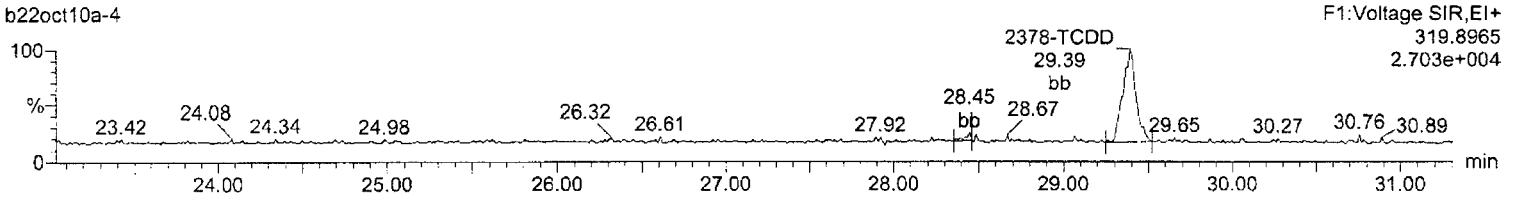
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

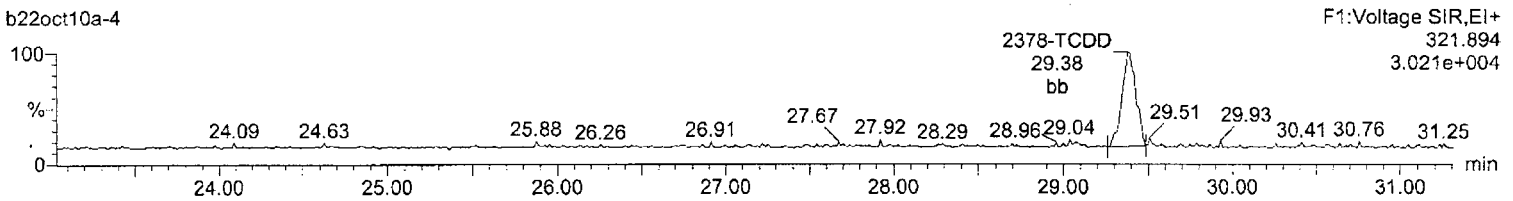
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

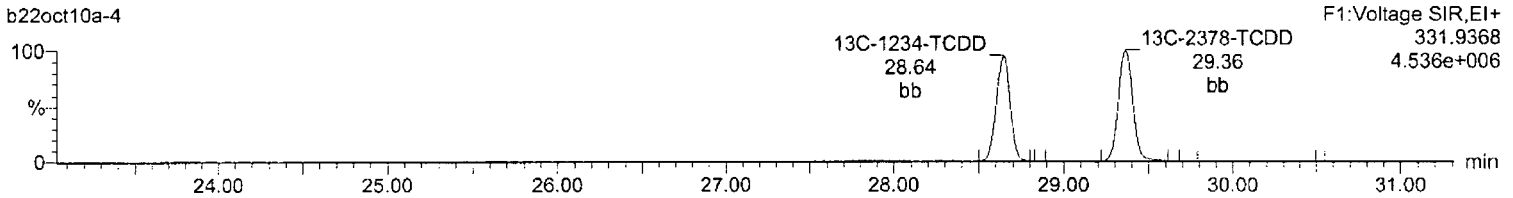
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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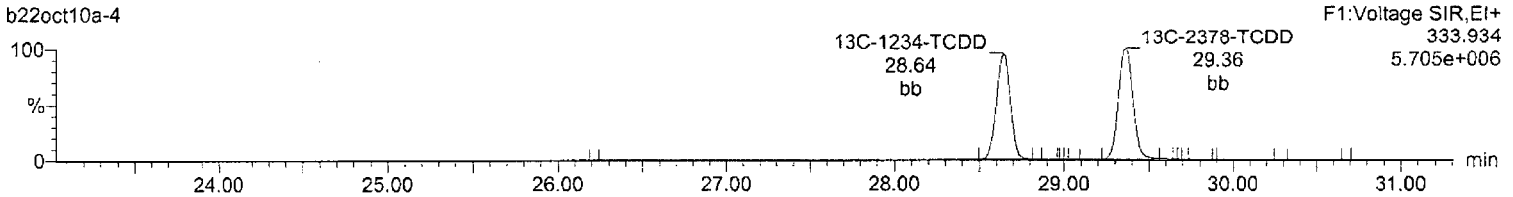
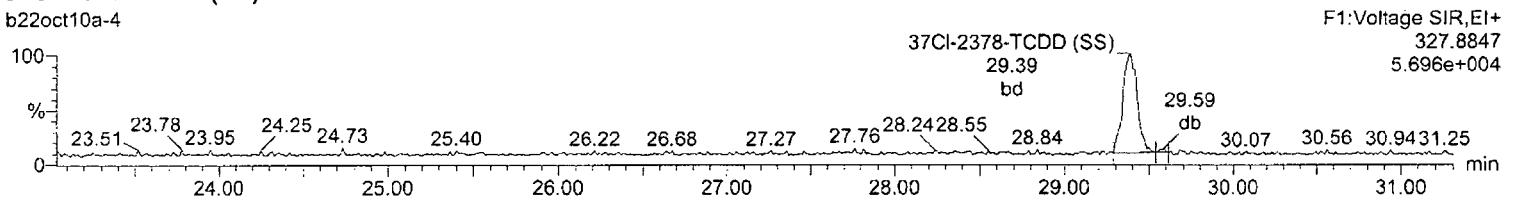
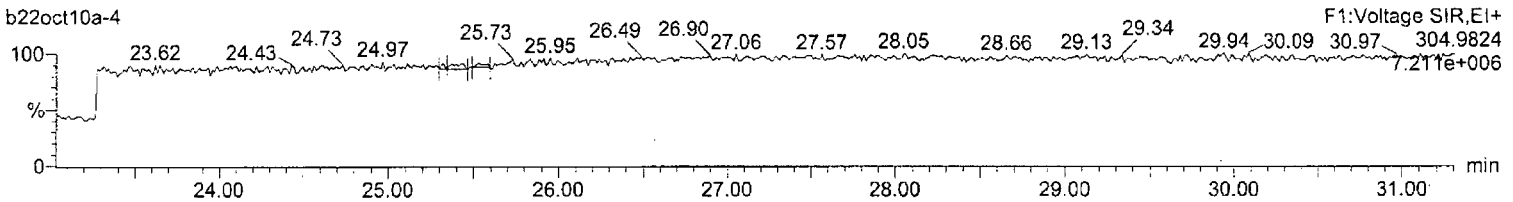


37Cl-2378-TCDD (SS)



Lock Mass F1



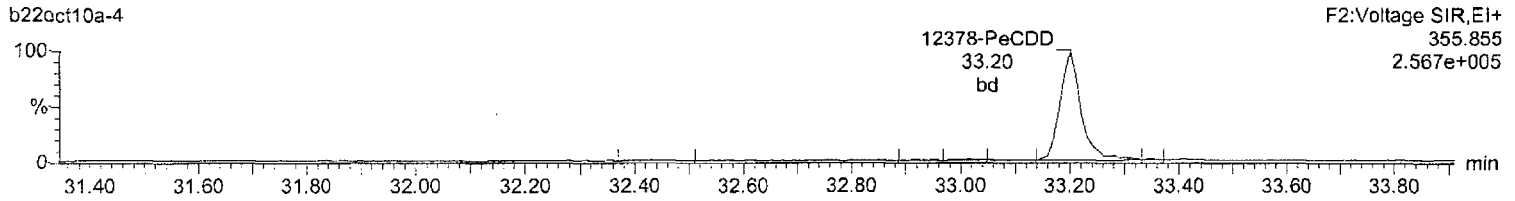
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

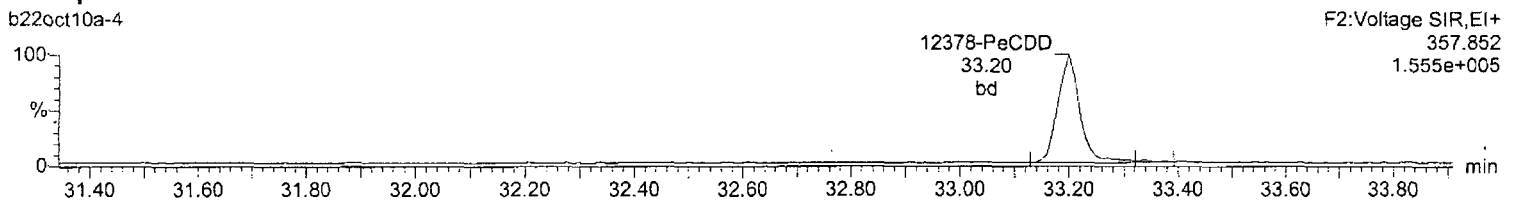
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

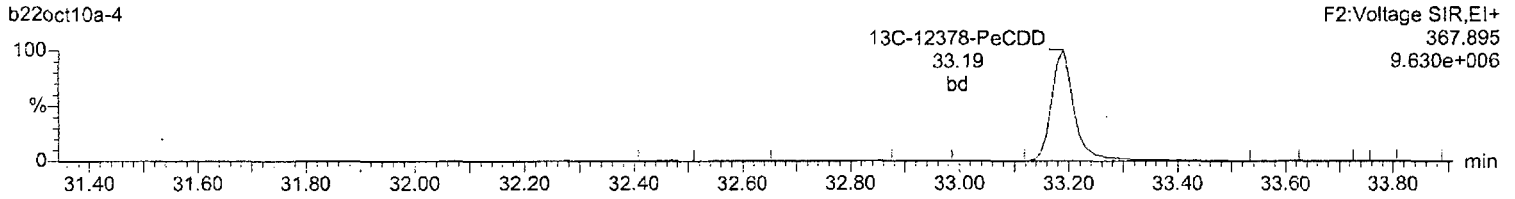
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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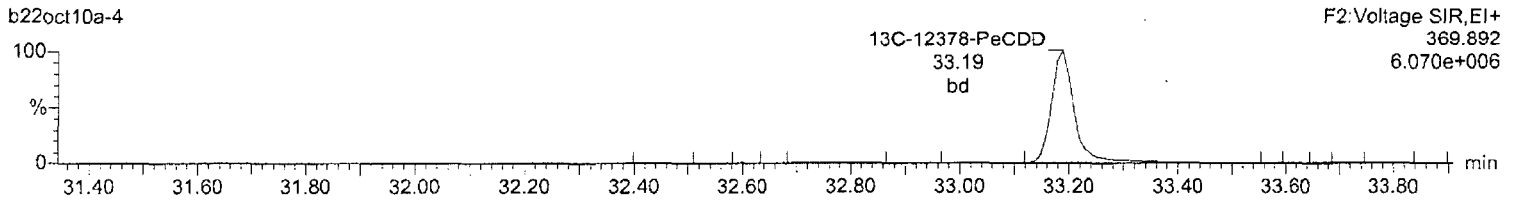
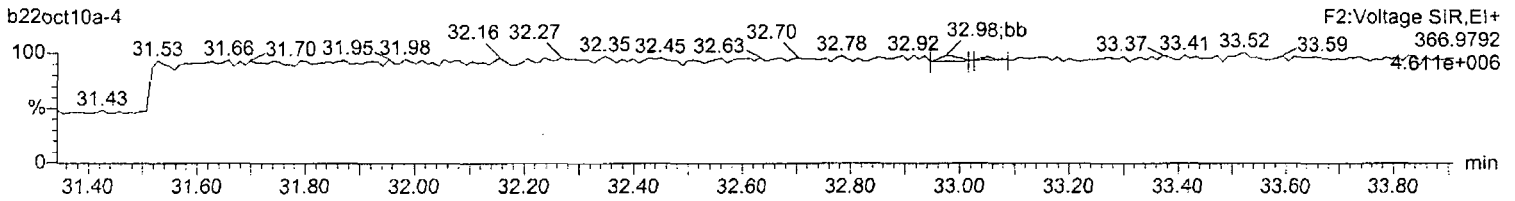


Lock Mass F2



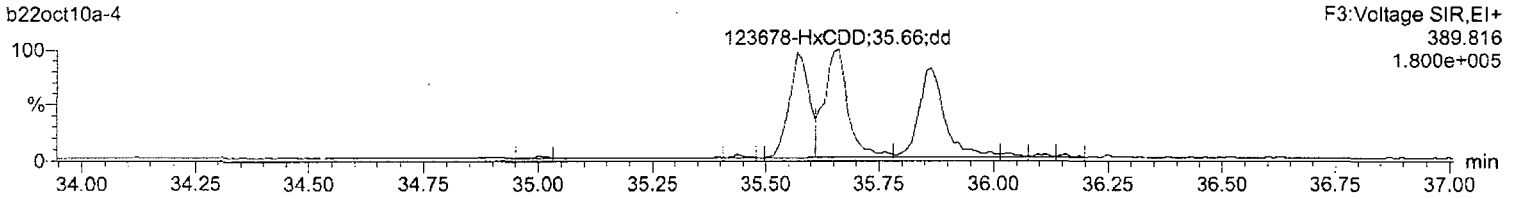
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

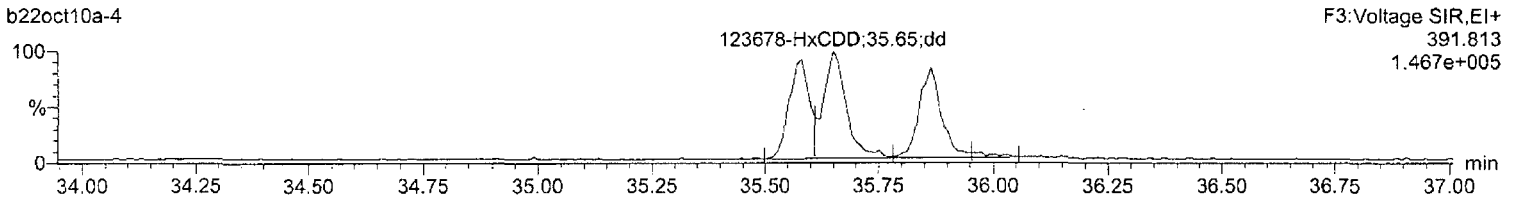
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

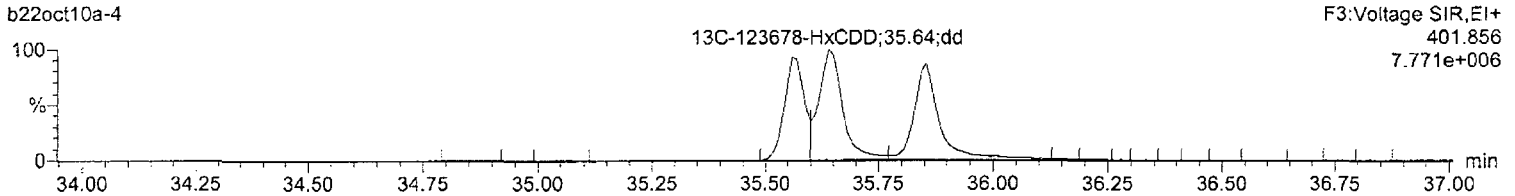
Total-hexadioxins



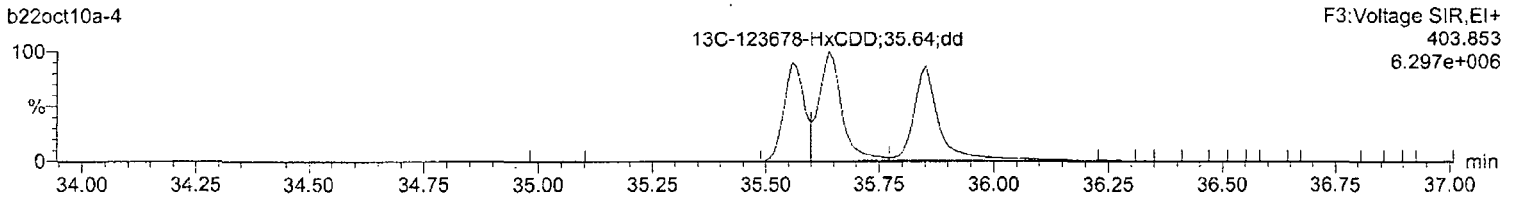
Total-hexadioxins



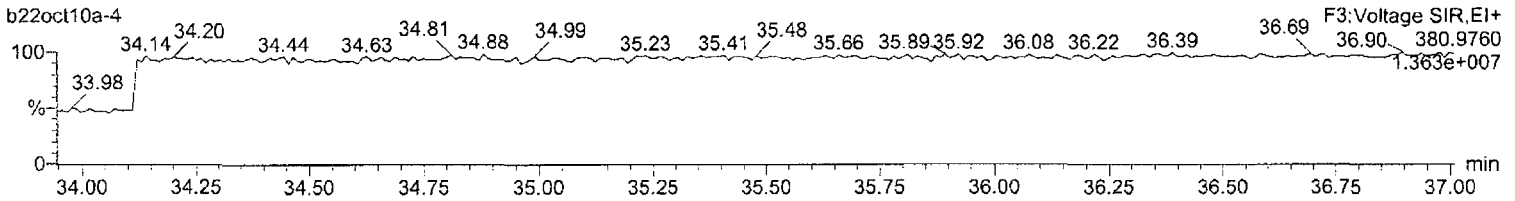
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



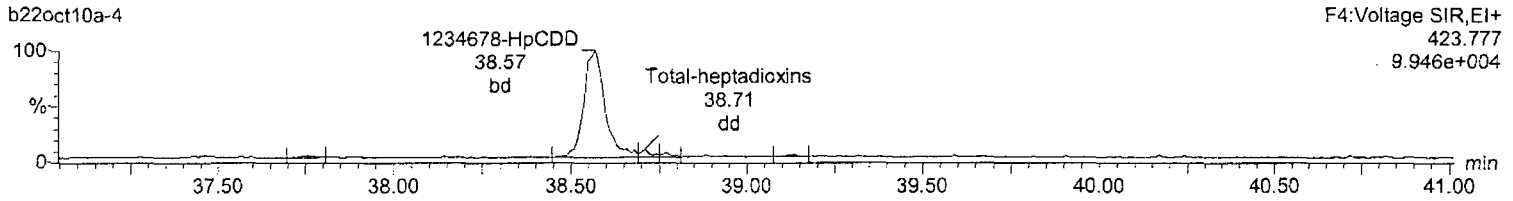
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

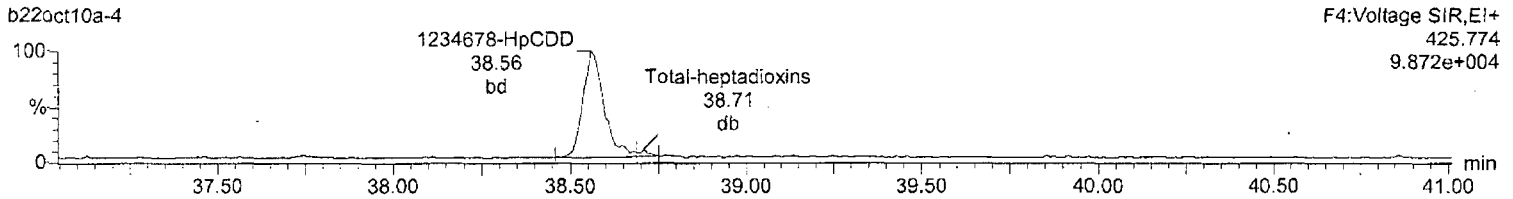
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

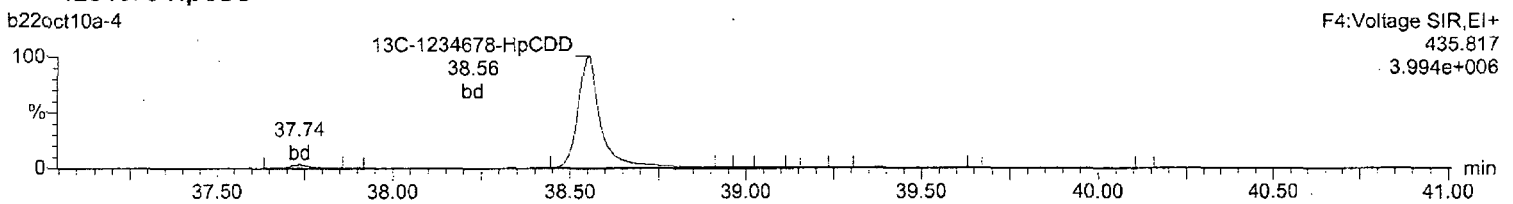
Total-heptadioxins



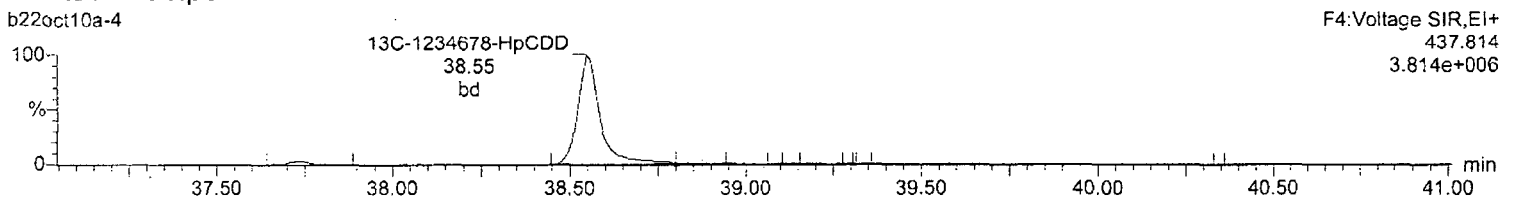
Total-heptadioxins



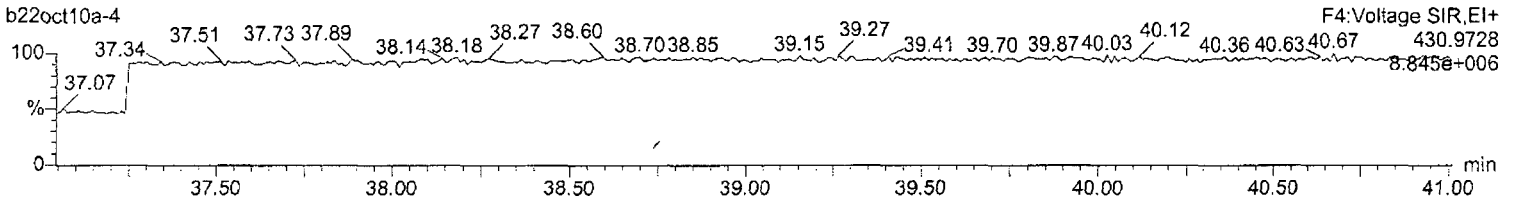
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



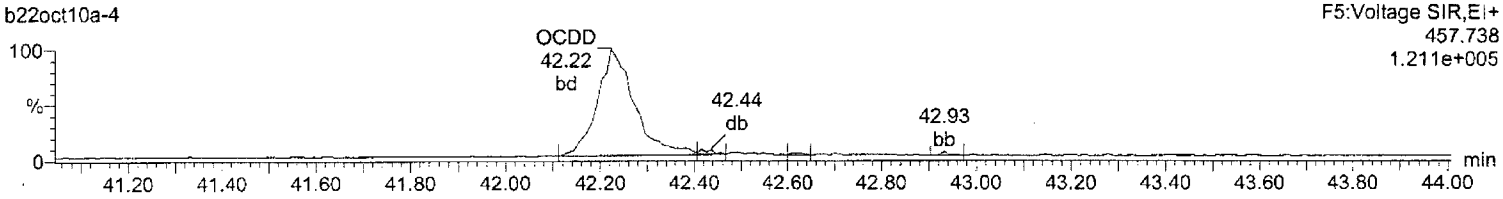
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

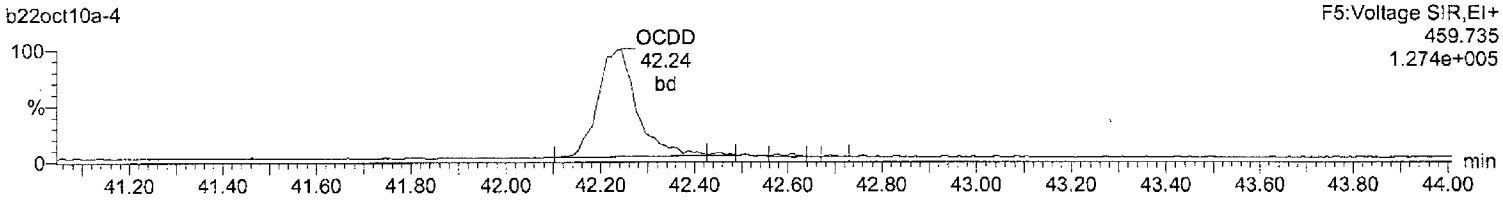
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

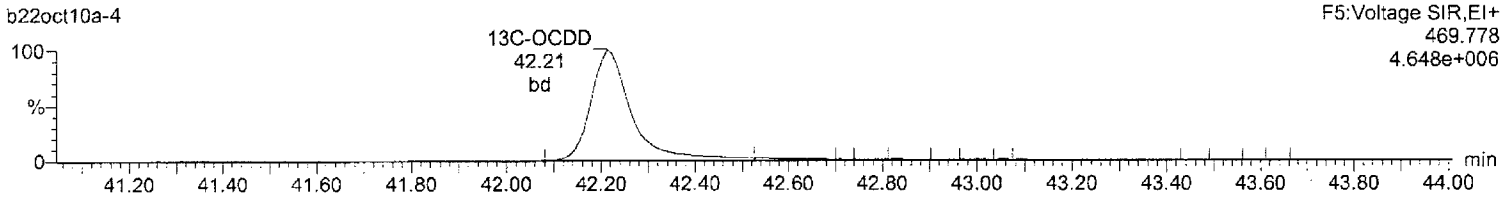
OCDD



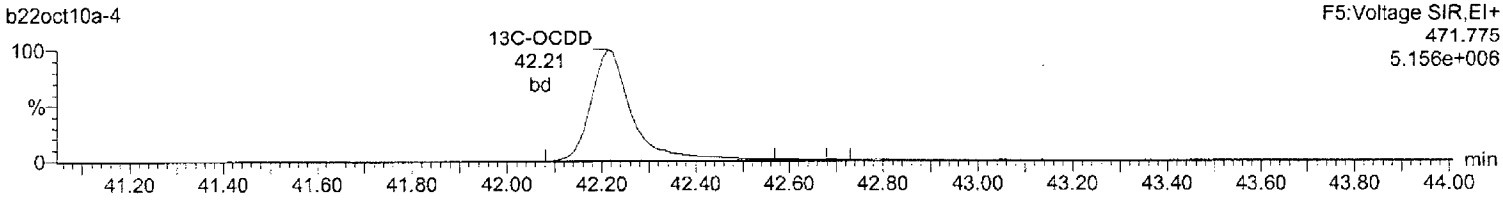
OCDD



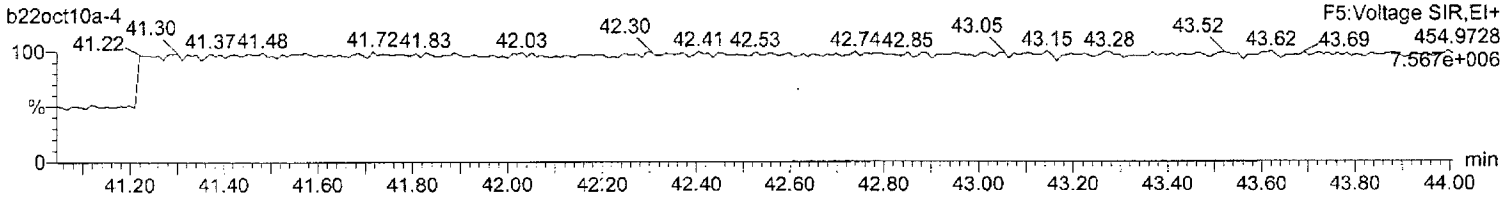
13C-OCDD



13C-OCDD



Lock Mass F5



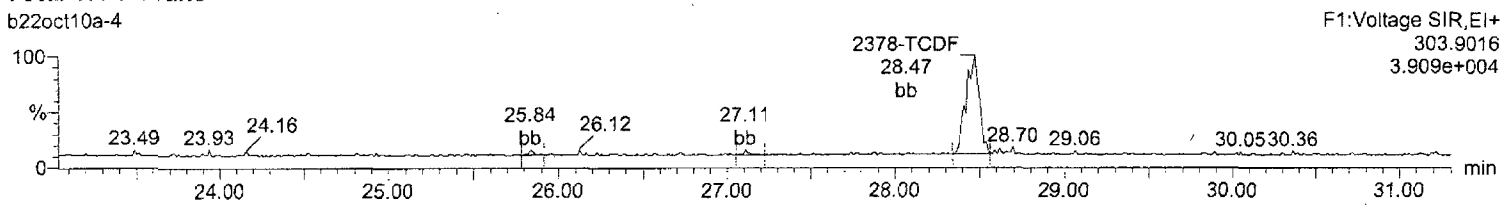
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

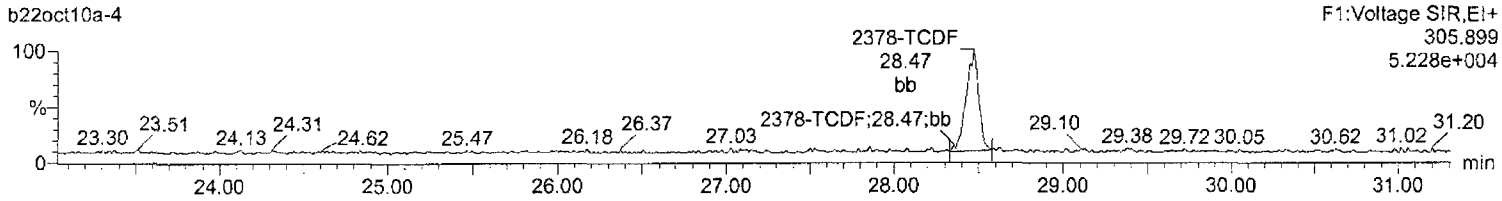
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

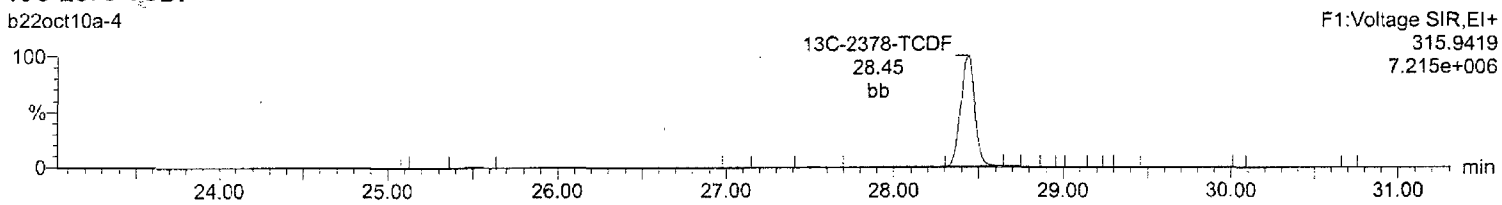
Total-tetrafurans



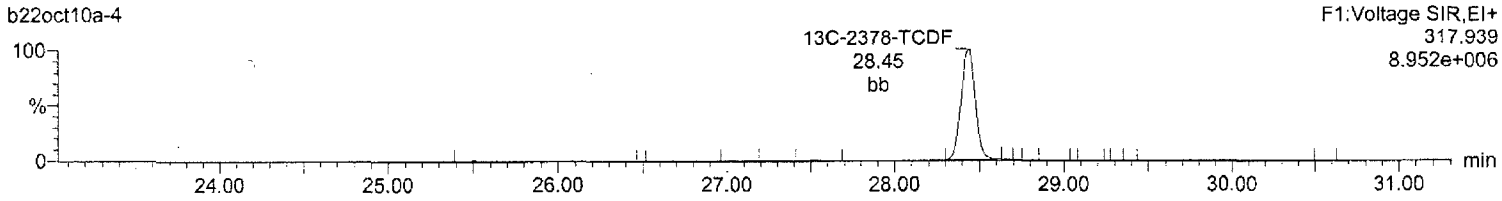
Total-tetrafurans



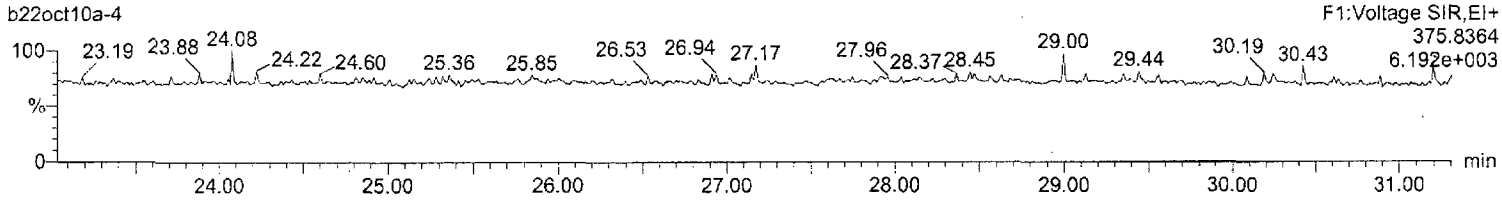
13C-2378-TCDF



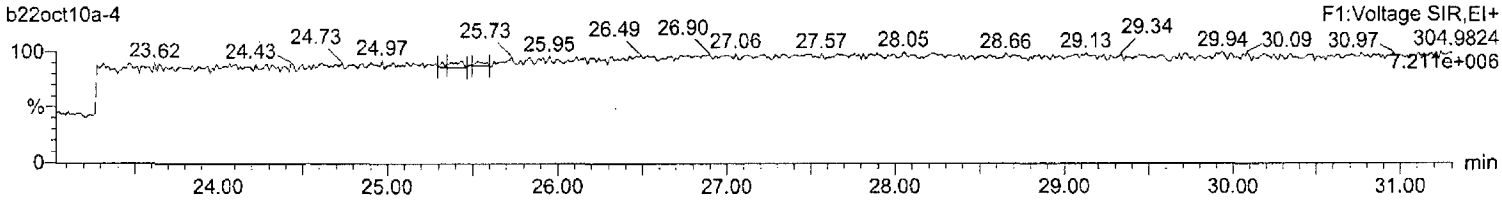
13C-2378-TCDF



HxDPE



Lock Mass F1



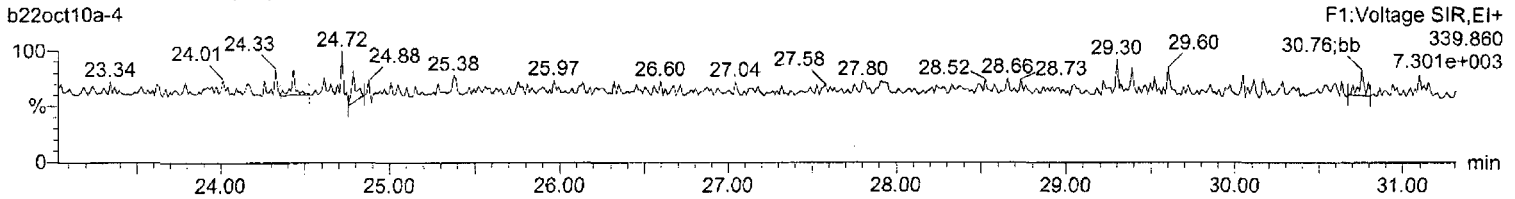
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

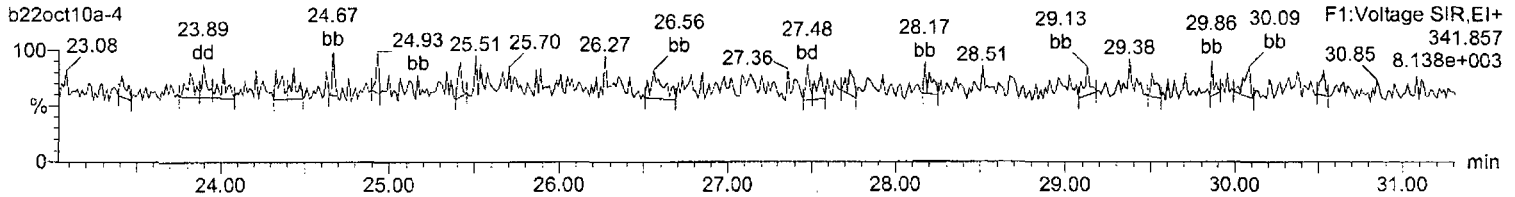
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

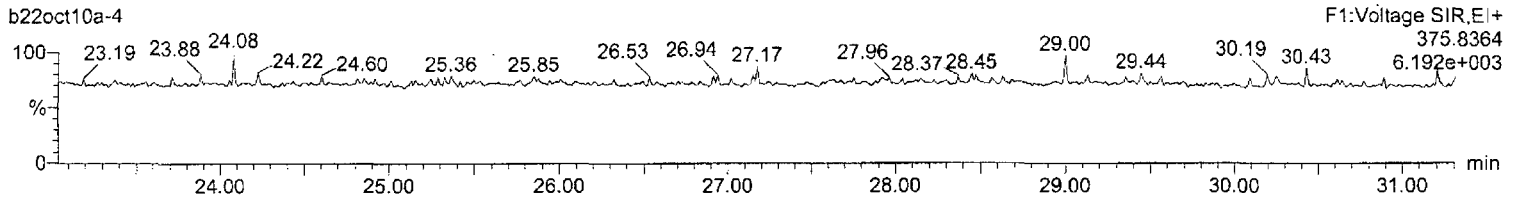
Total-pentafurans (F1)



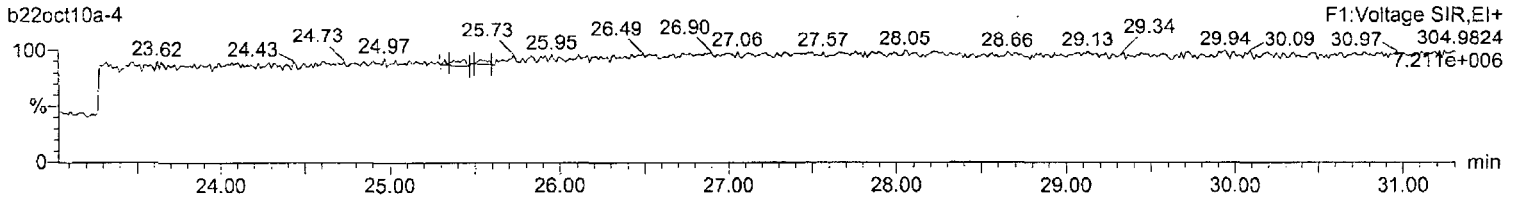
Total-pentafurans (F1)



HxDPE



Lock Mass F1



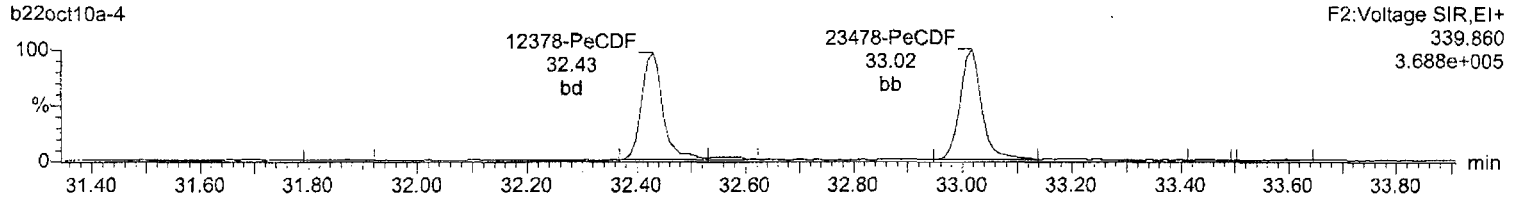
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

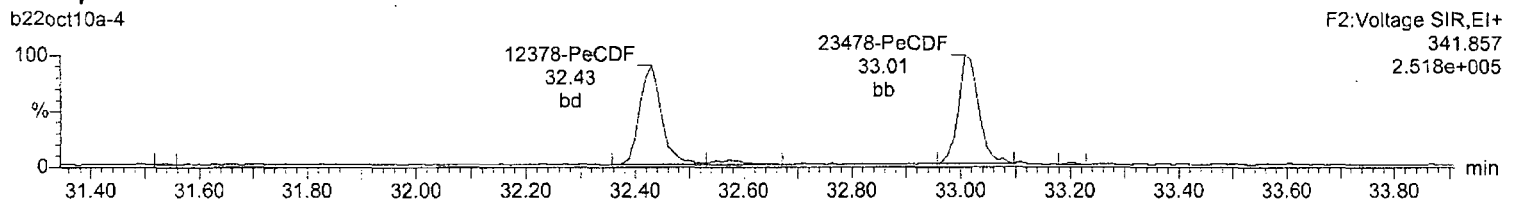
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

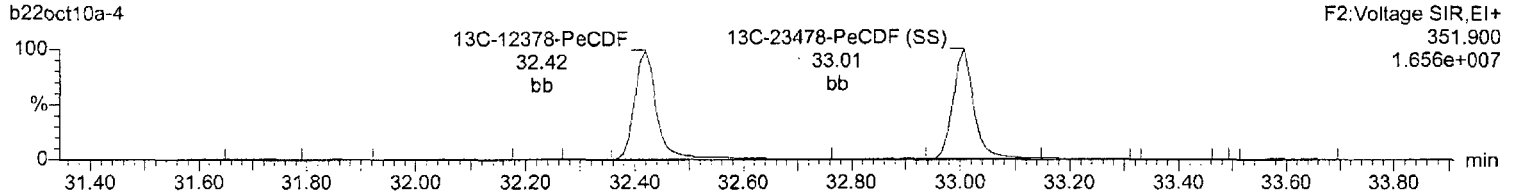
Total-pentafurans



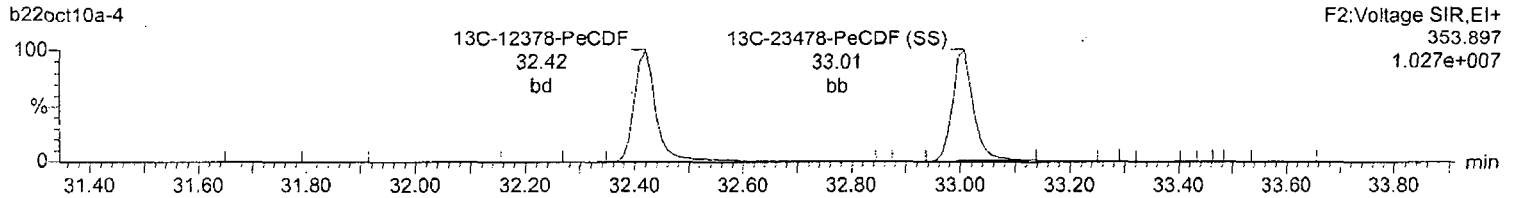
Total-pentafurans



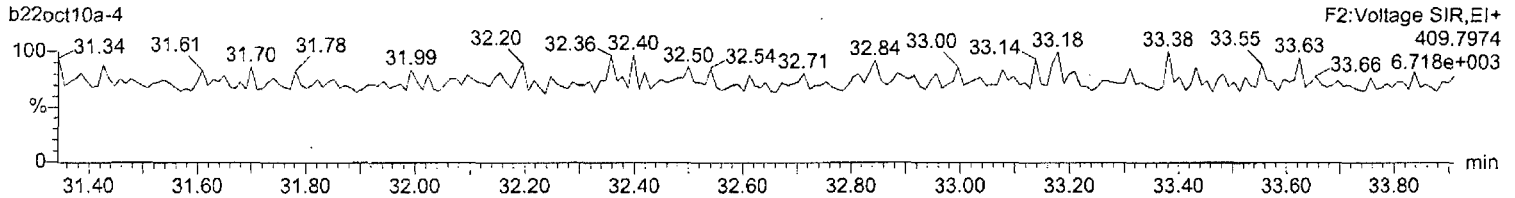
13C-12378-PeCDF



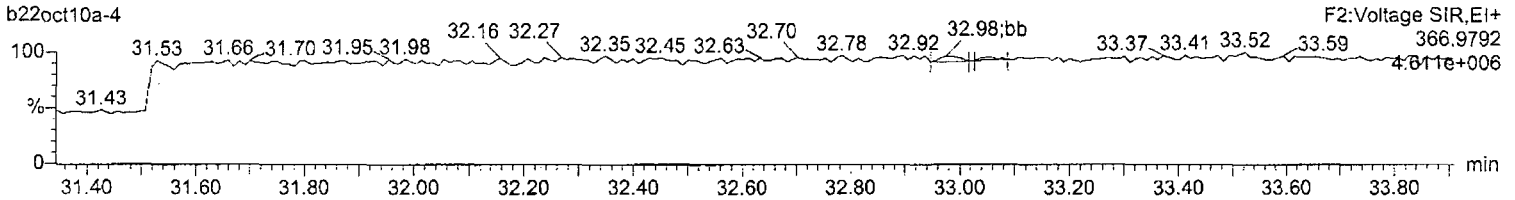
13C-12378-PeCDF



HpDPE



Lock Mass F2



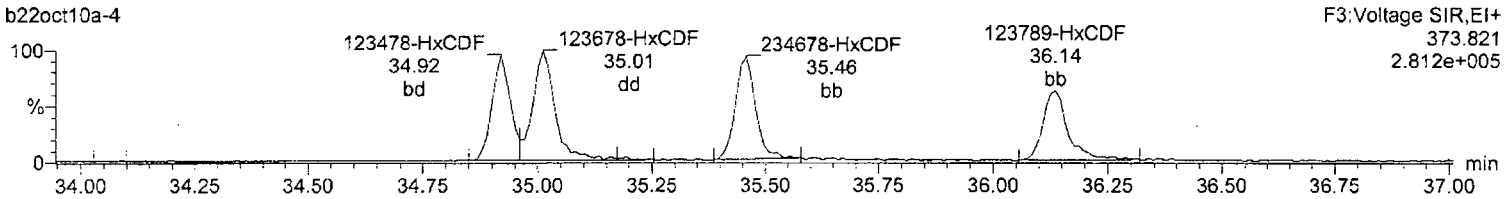
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

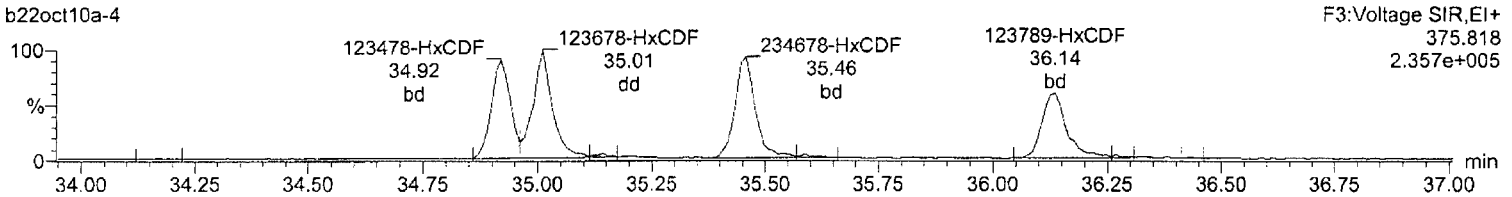
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

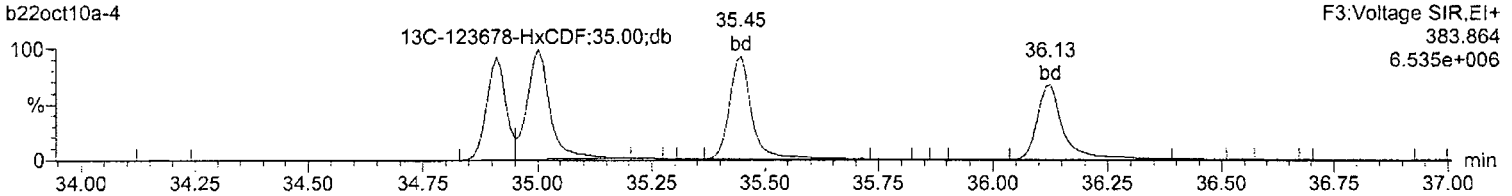
Total-hexafurans



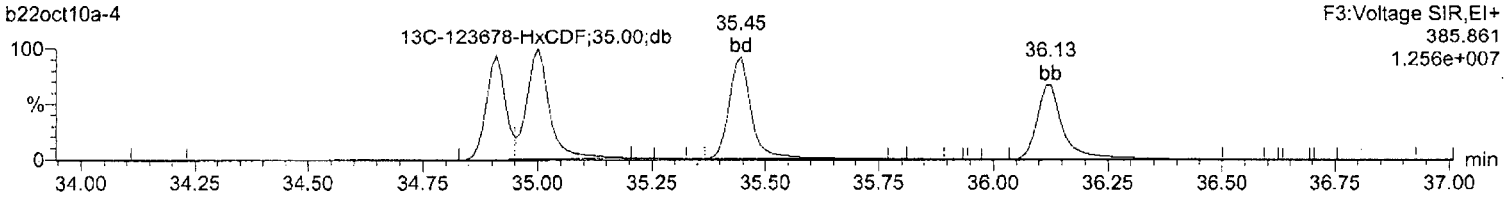
Total-hexafurans



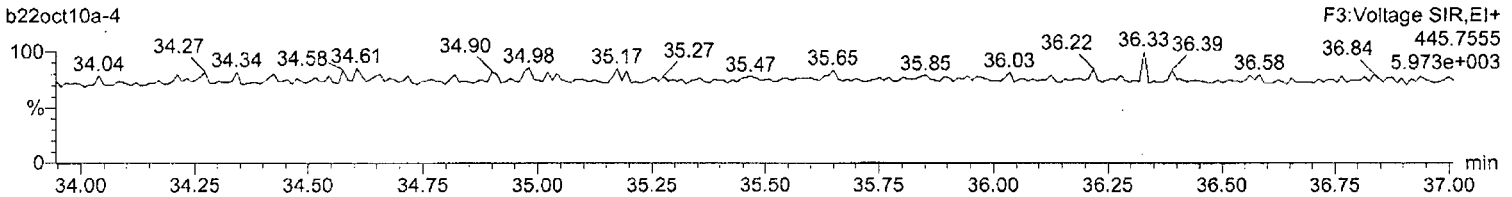
13C-123678-HxCDF



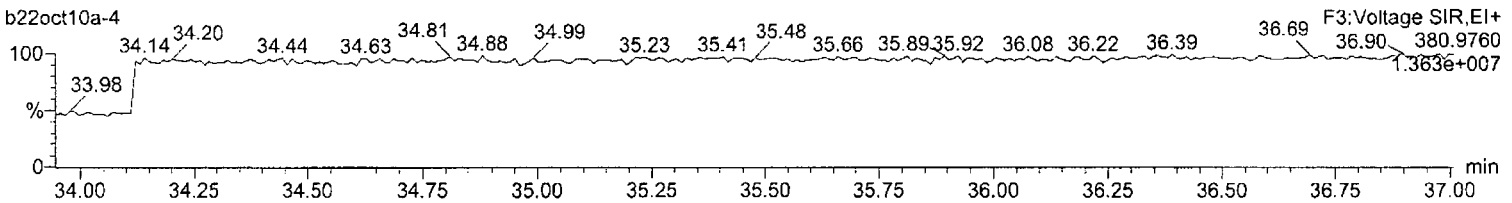
13C-123678-HxCDF



OcDPE



Lock Mass F3



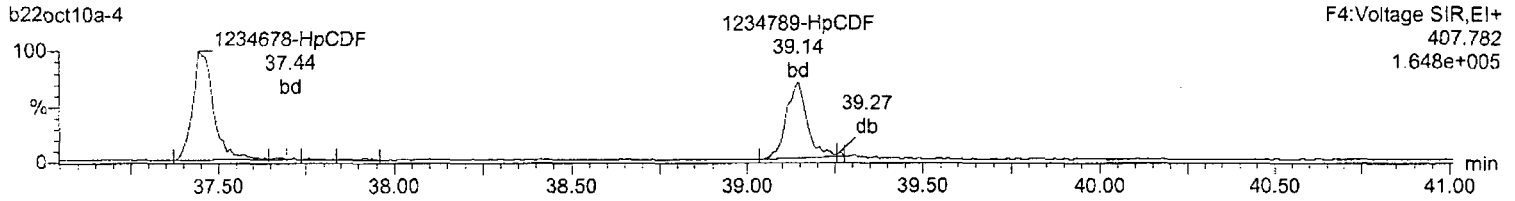
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

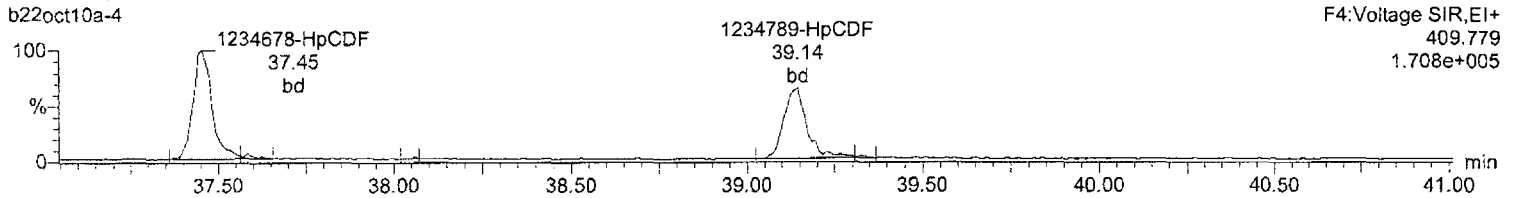
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

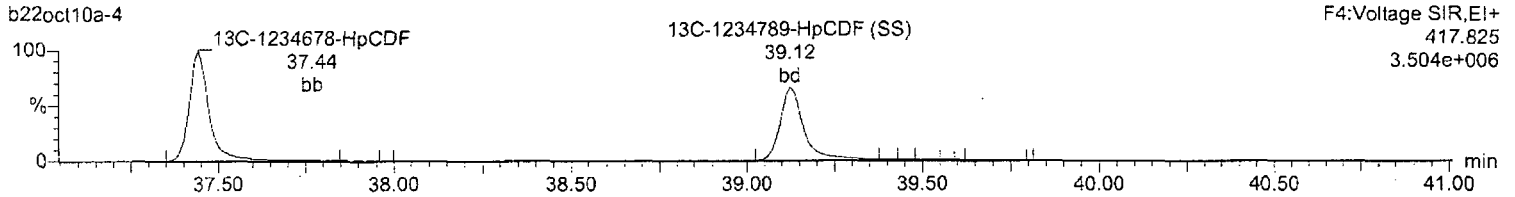
Total-heptafurans



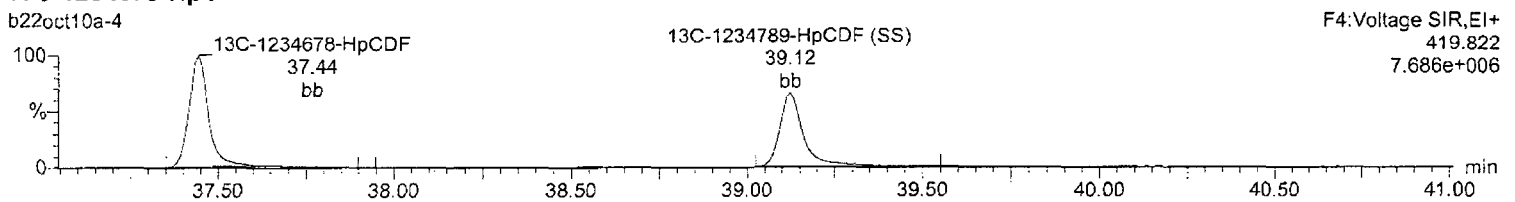
Total-heptafurans



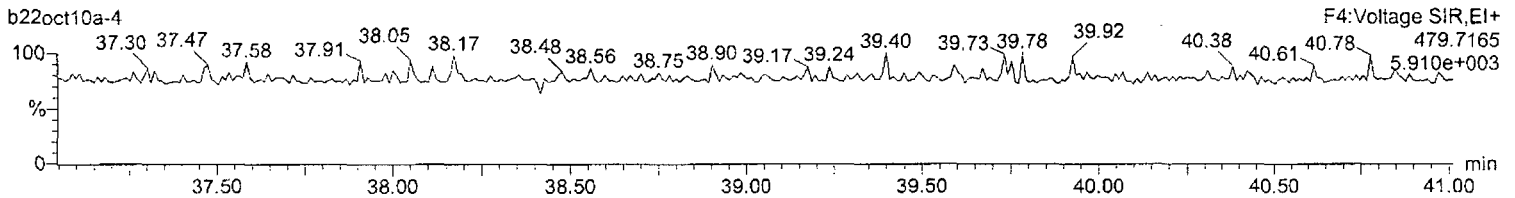
13C-1234678-HpCDF



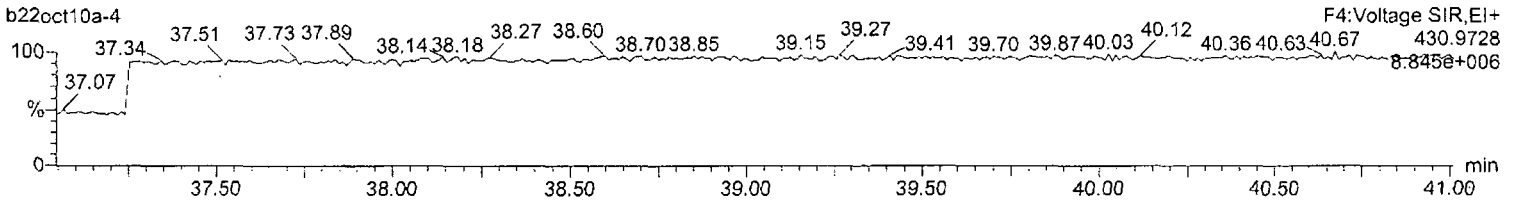
13C-1234678-HpCDF



NoDPE



Lock Mass F4



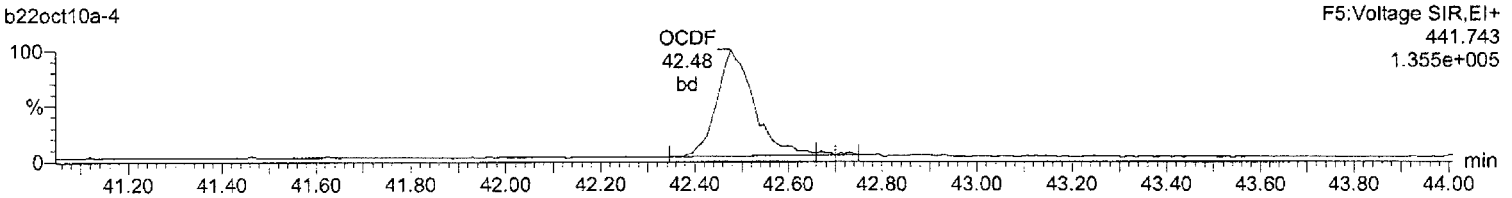
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

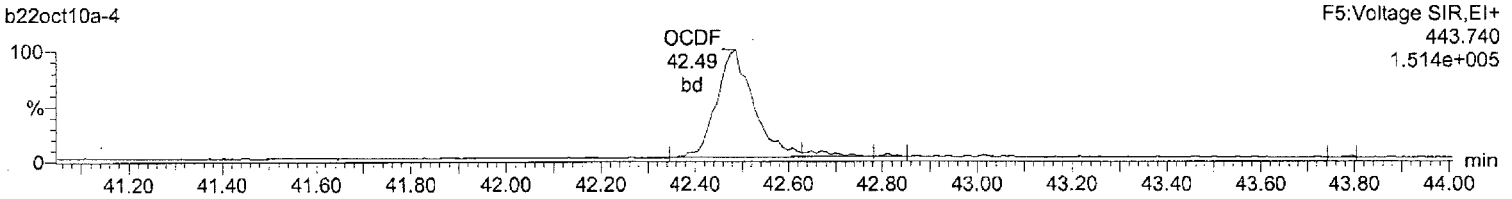
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-4, Date: 22-Oct-2010, Time: 13:04:43, ID: CS1 UD090323-02, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

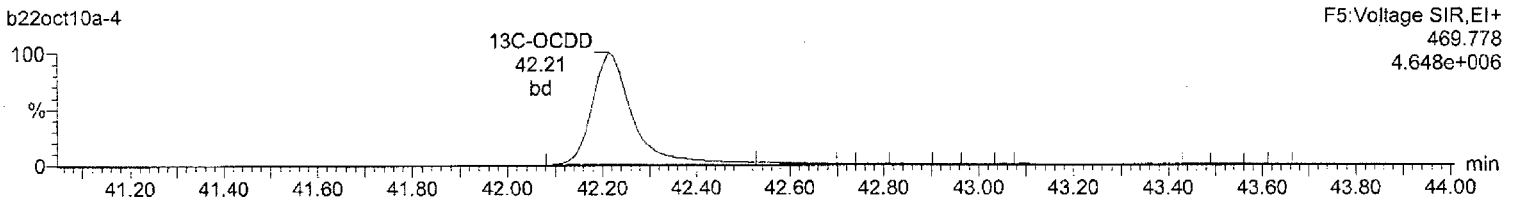
OCDF



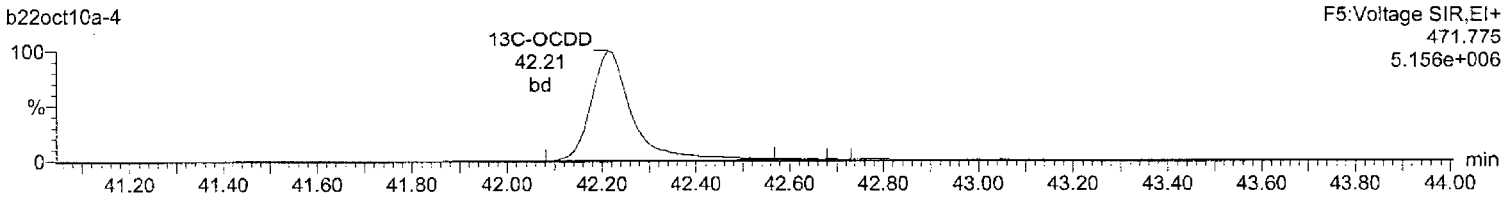
OCDF



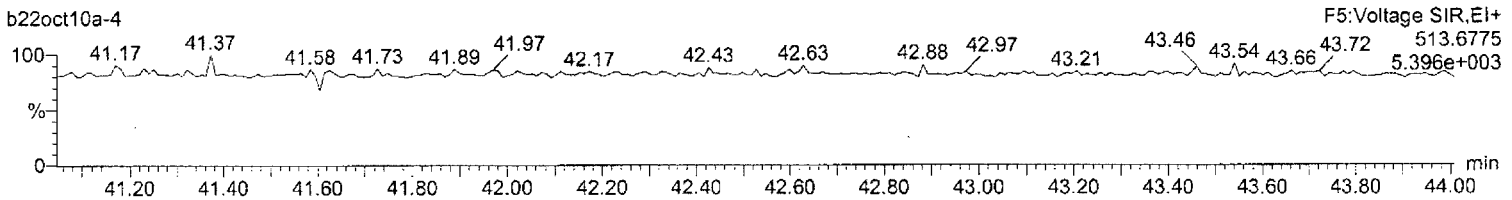
13C-OCDD



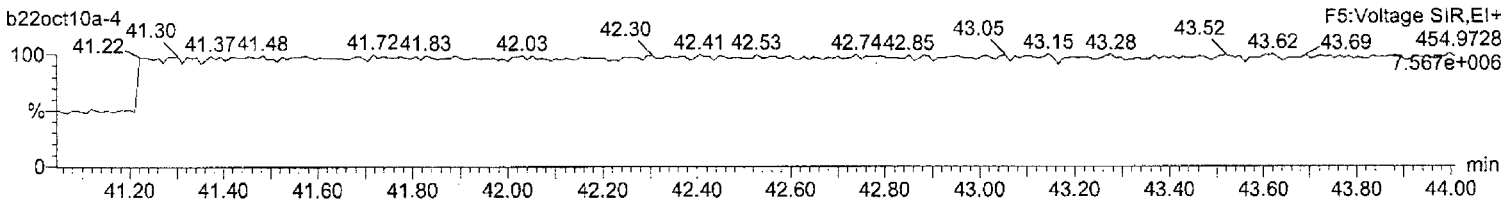
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	9.04e3	1.10e4	2.01e4	29.39	1.00	0.82	NO	1.906	0.881	0.0418	1.01e5	783	129.1	1.18e5	721	163.3	bb
	12378-PeCDD	4.93e4	3.18e4	8.10e4	33.21	1.00	1.55	NO	9.975	0.989	0.0470	1.00e6	1476	679.6	6.38e5	1134	562.4	bd
3	123478-HxCDD	4.07e4	3.25e4	7.33e4	35.58	1.00	1.25	NO	10.356	0.811	0.0846	7.75e5	1862	416.5	6.46e5	1584	407.7	bd
4	123678-HxCDD	4.62e4	3.32e4	7.94e4	35.66	1.00	1.39	NO	9.573	0.879	0.0722	8.20e5	1862	440.7	6.17e5	1584	389.9	dd
5	123789-HxCDD	4.41e4	3.15e4	7.56e4	35.86	1.01	1.40	NO	10.015	0.837	0.0793	6.95e5	1862	373.2	5.29e5	1584	333.8	dd
6	1234678-HpCDD	3.17e4	3.00e4	6.17e4	38.57	1.00	1.06	NO	9.876	0.974	0.169	4.62e5	3403	135.9	4.26e5	1478	288.0	bd
7	OCDD	4.54e4	5.44e4	9.98e4	42.23	1.00	0.83	NO	19.268	0.945	0.255	5.05e5	2295	219.9	5.76e5	2082	276.9	bb
8	2378-TCDF	1.32e4	1.75e4	3.07e4	28.46	1.00	0.75	NO	1.909	0.896	0.0338	1.39e5	694	200.3	1.94e5	1200	161.6	bd
9	12378-PeCDF	7.49e4	4.77e4	1.23e5	32.43	1.00	1.57	NO	10.179	0.904	0.0557	1.67e6	1482	1126.8	1.09e6	3464	315.9	bd
10	23478-PeCDF	7.68e4	4.91e4	1.26e5	33.02	1.02	1.57	NO	10.315	0.927	0.0550	1.81e6	1482	1222.6	1.17e6	3464	337.8	bd
11	123478-HxCDF	6.11e4	4.73e4	1.08e5	34.92	1.00	1.29	NO	9.986	0.844	0.111	1.18e6	3251	363.8	9.38e5	3350	280.0	bd
12	123678-HxCDF	7.54e4	5.77e4	1.33e5	35.02	1.00	1.31	NO	9.884	1.036	0.0894	1.30e6	3251	398.7	1.04e6	3350	310.1	dd
13	234678-HxCDF	6.51e4	5.13e4	1.16e5	35.46	1.01	1.27	NO	9.632	0.906	0.0996	1.20e6	3251	369.8	9.67e5	3350	288.8	bd
14	123789-HxCDF	5.40e4	4.15e4	9.55e4	36.14	1.03	1.30	NO	9.743	0.744	0.123	8.71e5	3251	267.8	6.89e5	3350	205.6	bd
15	1234678-HpCDF	5.05e4	4.89e4	9.94e4	37.46	1.00	1.03	NO	9.734	1.228	0.125	8.01e5	3315	241.6	7.90e5	3158	250.3	bd
16	1234789-HpCDF	3.85e4	3.84e4	7.69e4	39.15	1.05	1.00	NO	9.905	0.951	0.165	5.16e5	3315	155.7	4.73e5	3158	149.7	bd
17	OCDF	5.72e4	6.35e4	1.21e5	42.50	1.01	0.90	NO	19.092	1.142	0.207	5.71e5	1742	327.8	6.28e5	2608	241.0	bd
18	13C-2378-TCDD	5.02e5	6.37e5	1.14e6	29.36	1.02	0.79	NO	101.787	1.127	0.120	5.15e6	2889	1781.9	6.38e6	1774	3596.9	bb
19	13C-12378-PeCDD	4.95e5	3.25e5	8.19e5	33.19	1.16	1.52	NO	97.341	0.811	0.154	1.01e7	2172	4668.5	6.58e6	2339	2815.0	bb
20	13C-123678-HxCDD	5.06e5	3.97e5	9.03e5	35.65	0.99	1.27	NO	91.935	1.006	0.161	8.74e6	4688	1863.9	6.96e6	2941	2366.6	dd
21	13C-1234678-HpCDD	3.26e5	3.08e5	6.34e5	38.56	1.08	1.06	NO	93.638	0.706	0.278	4.51e6	4958	909.6	4.19e6	4117	1017.3	bb
22	13C-OCDD	5.02e5	5.55e5	1.06e6	42.22	1.18	0.90	NO	178.915	0.588	0.390	5.00e6	6067	823.5	5.58e6	5024	1110.8	bd
23	13C-2378-TCDF	7.59e5	9.52e5	1.71e6	28.43	0.99	0.80	NO	98.242	1.694	0.0819	7.94e6	2172	3657.0	9.96e6	2793	3565.2	bb
24	13C-12378-PeCDF	8.23e5	5.34e5	1.36e6	32.42	1.13	1.54	NO	94.933	1.343	0.424	1.82e7	9617	1890.5	1.13e7	11462	988.4	bd
25	13C-123678-HxCDF	4.48e5	8.36e5	1.28e6	35.00	0.98	0.54	NO	97.054	1.430	0.230	7.38e6	7887	935.5	1.44e7	6764	2133.9	dd
26	13C-1234678-HpCDF	2.55e5	5.55e5	8.09e5	37.45	1.04	0.46	NO	93.646	0.901	0.245	3.87e6	4470	865.4	8.66e6	5718	1514.8	bd
27	13C-1234-TCDD	4.45e5	5.65e5	1.01e6	28.66	0.00	0.79	NO	100.000	1.000	0.133	4.65e6	2889	1608.6	5.83e6	1774	3286.5	bb
28	13C-123789-HxCDD	4.99e5	3.99e5	8.98e5	35.85	0.00	1.25	NO	100.000	1.000	0.176	7.22e6	4688	1540.7	5.86e6	2941	1991.5	dd
29	37Cl-2378-TCDD (SS)	2.26e4		2.26e4	29.39	1.00			1.941	0.991	0.0428	2.36e5	1701	138.7				bb
30	13C-23478-PeCDF (SS)	8.03e5	5.14e5	1.32e6	33.01	1.02	1.56	NO	102.414	0.970	0.223	1.80e7	9617	1866.6	1.10e7	11462	959.2	bb
31	13C-123478-HxCDF (SS)	3.51e5	6.70e5	1.02e6	34.91	1.00	0.52	NO	103.672	0.794	0.271	6.74e6	7887	855.0	1.31e7	6764	1931.5	bd
32	13C-123478-HxCDD (SS)	4.22e5	3.33e5	7.55e5	35.57	1.00	1.27	NO	106.937	0.835	0.188	8.21e6	4688	1750.9	6.49e6	2941	2206.8	bd
33	13C-1234789-HpCDF (SS)	1.93e5	4.21e5	6.15e5	39.13	1.04	0.46	NO	97.486	0.759	0.319	2.44e6	4470	545.0	5.48e6	5718	958.0	bd

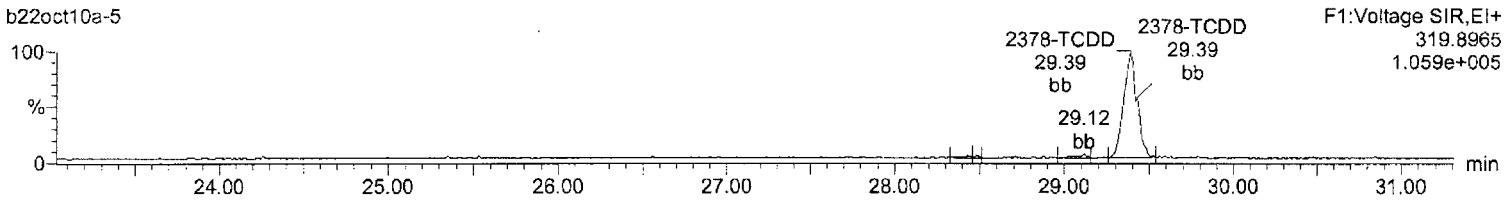
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

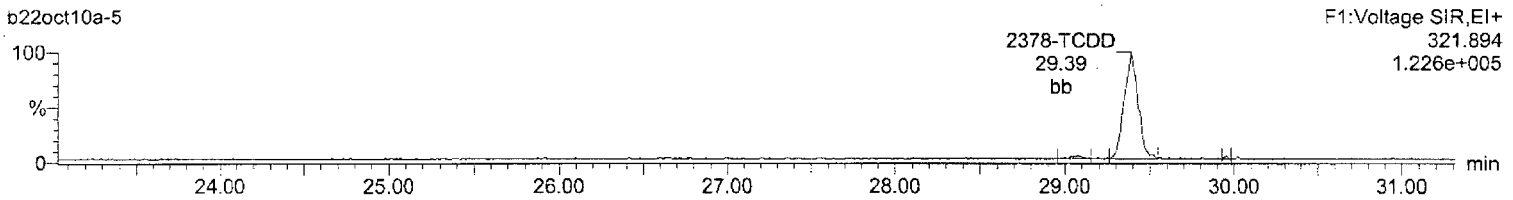
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

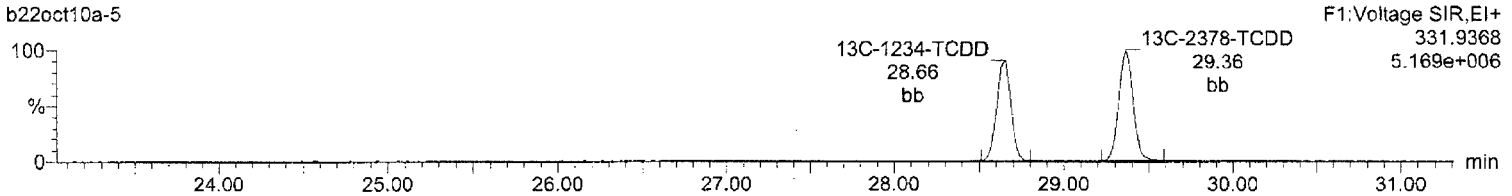
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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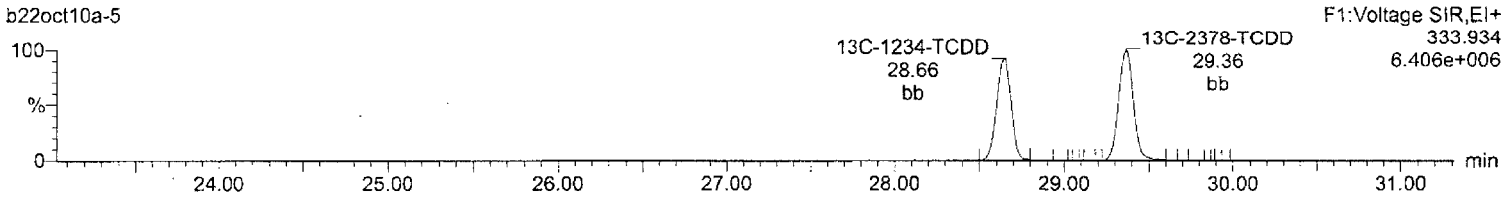
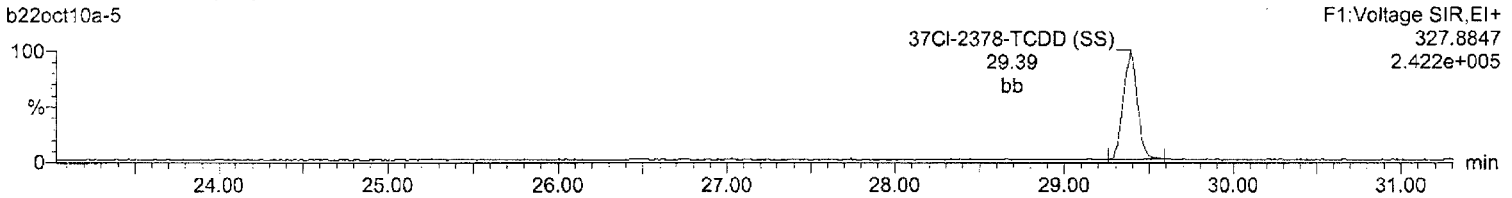
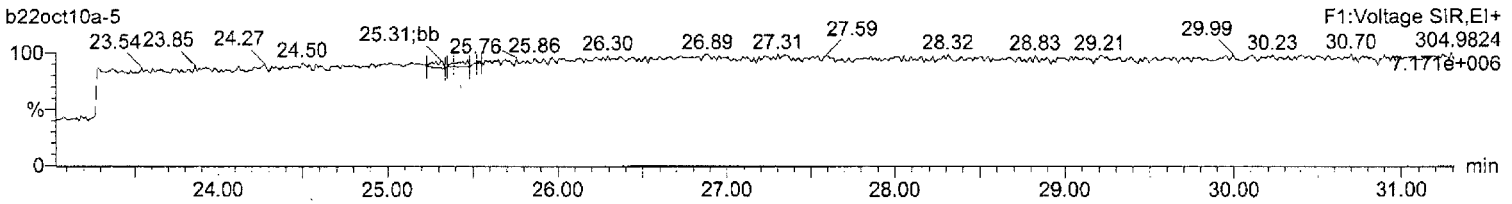


37Cl-2378-TCDD (SS)



Lock Mass F1



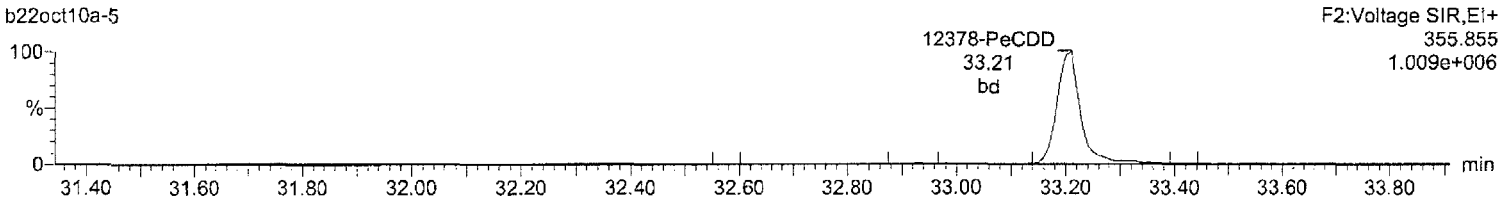
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

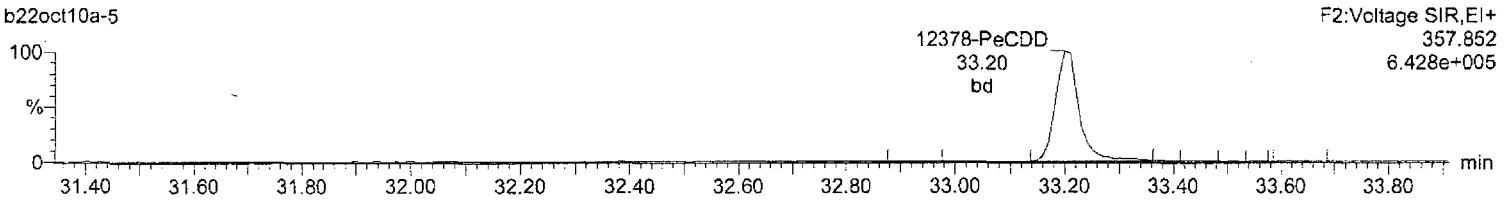
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

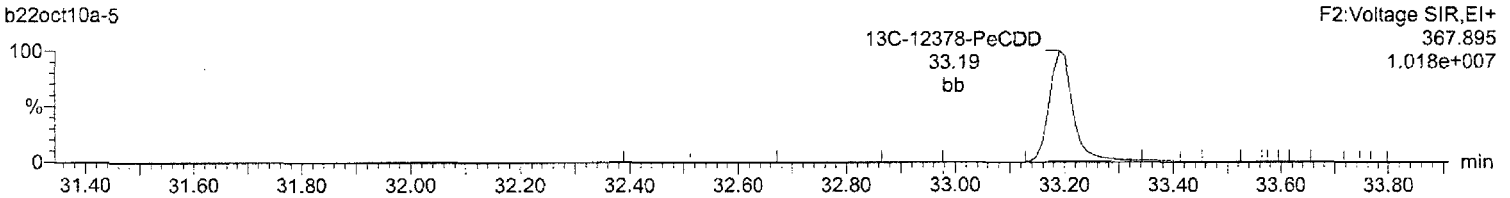
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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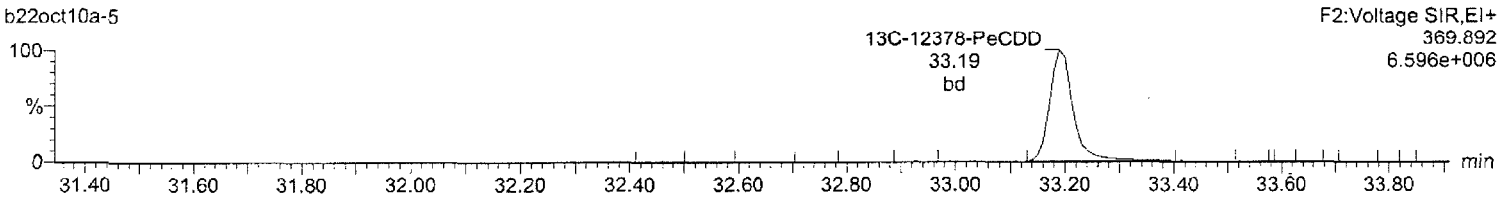
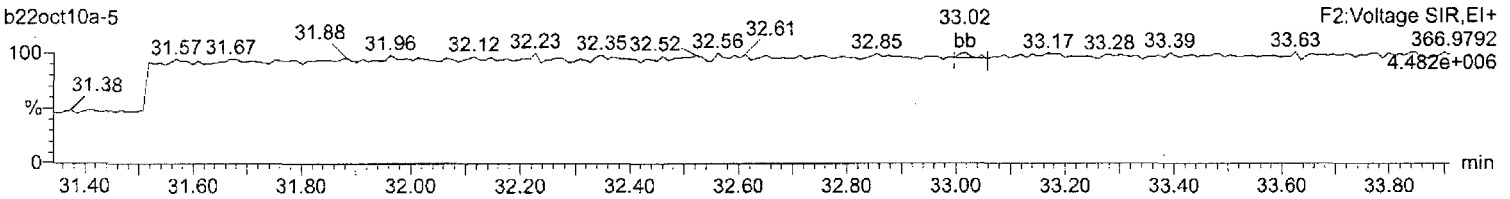


Lock Mass F2



Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
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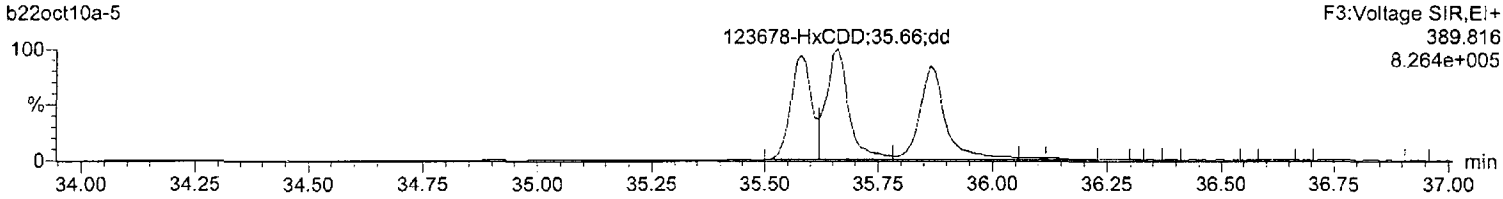
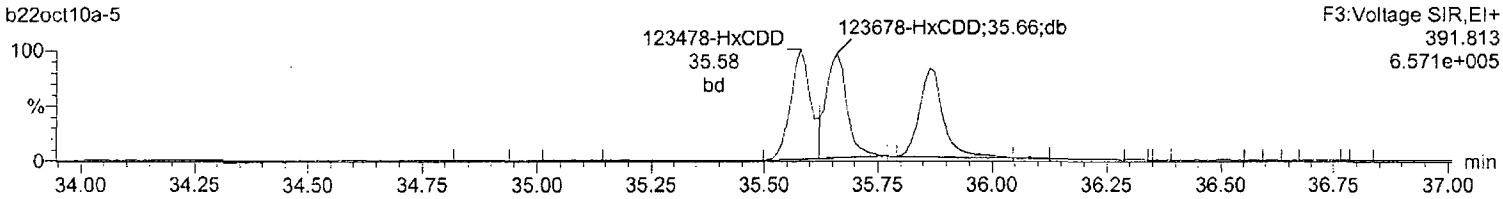
Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

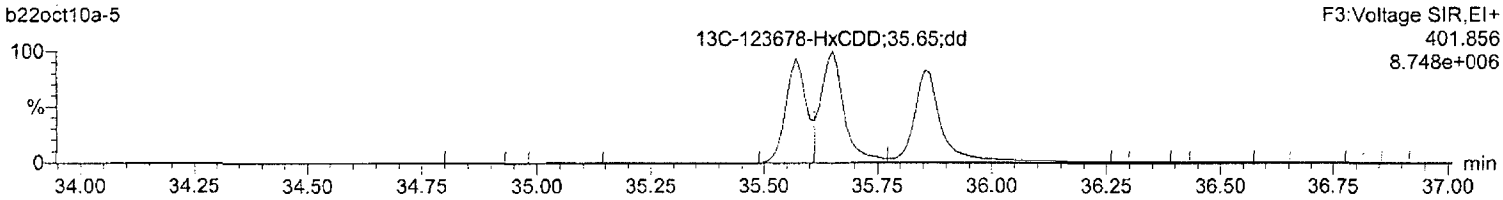
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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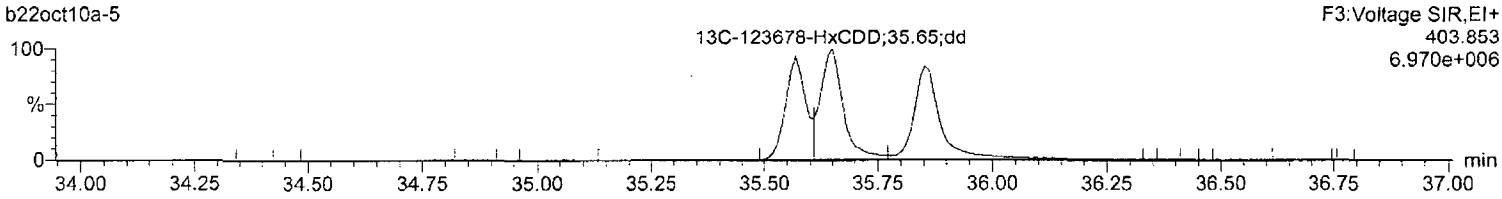
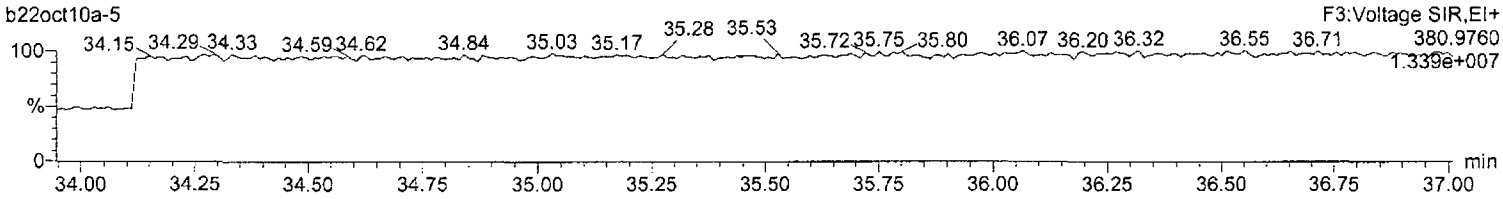


Lock Mass F3



Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
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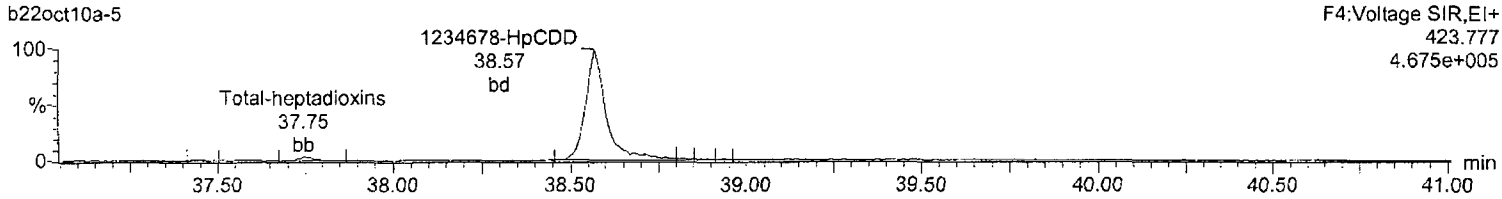
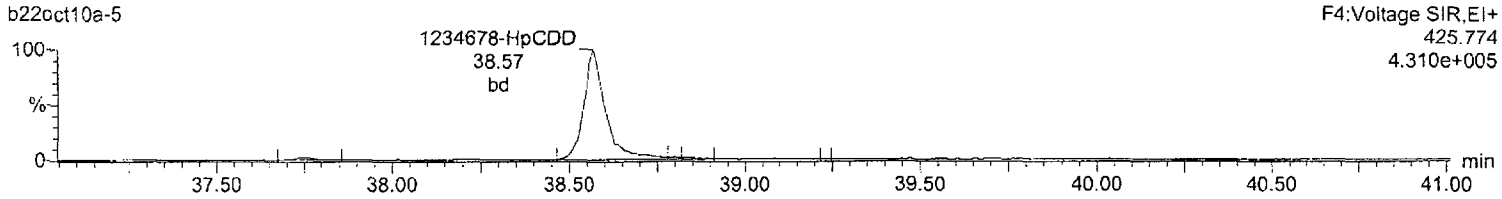
Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

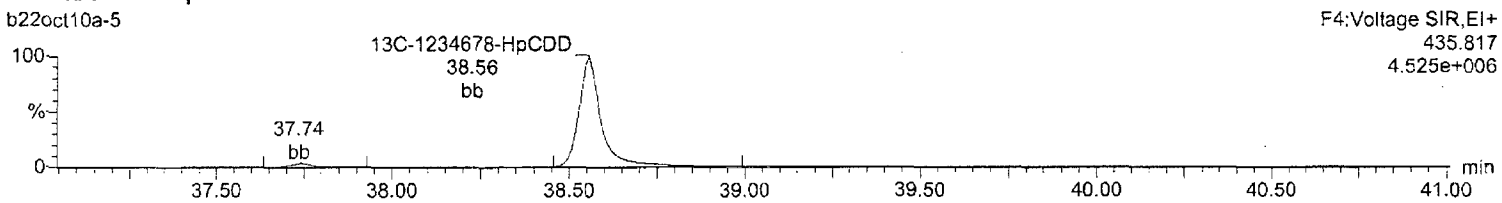
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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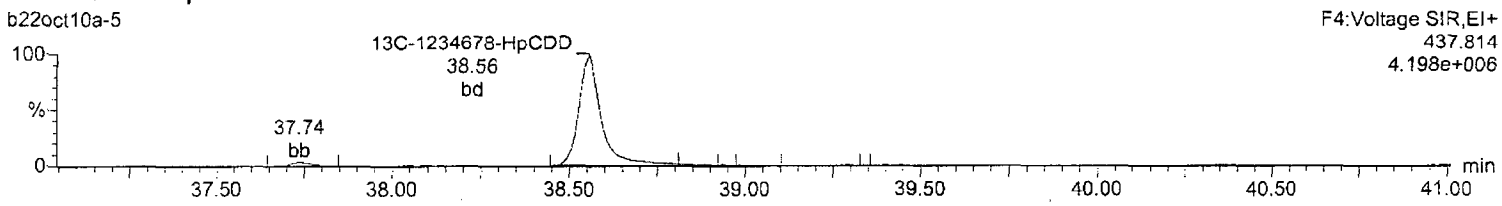
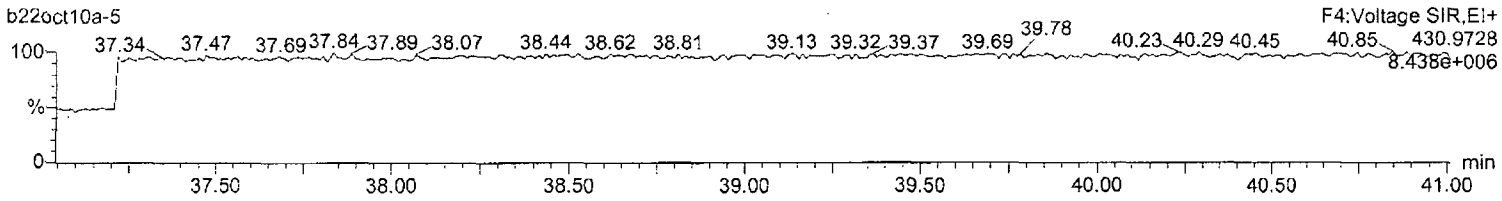


Lock Mass F4



Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
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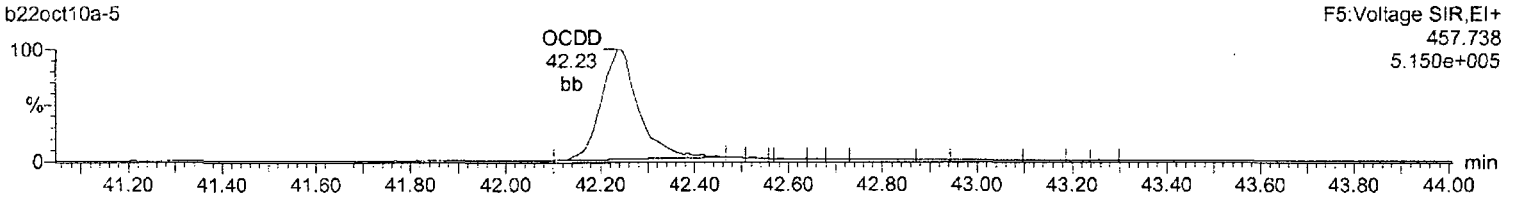
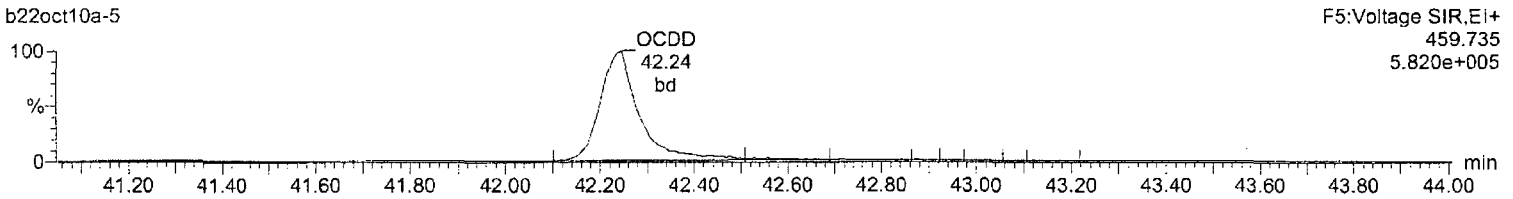
Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

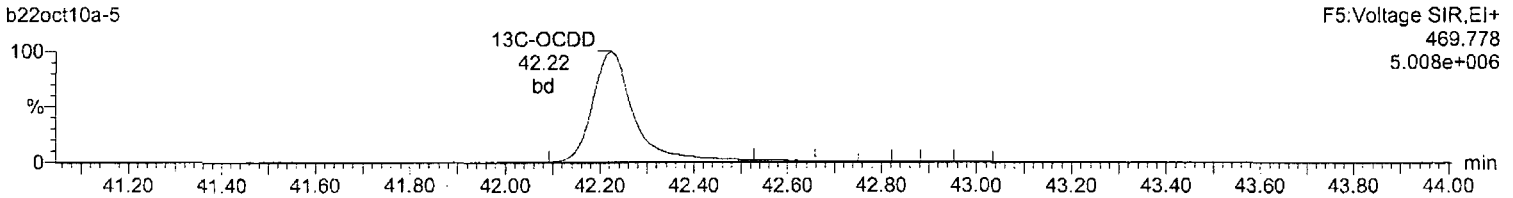
OCDD



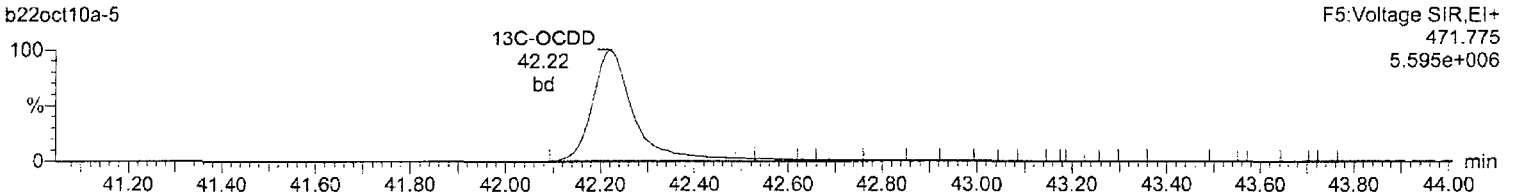
OCDD



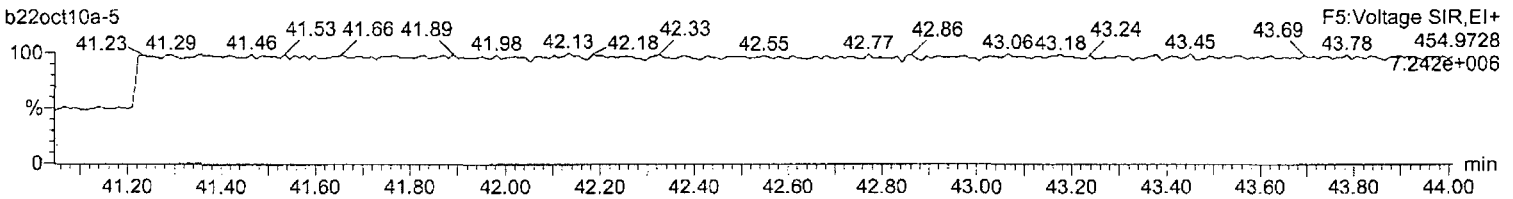
13C-OCDD



13C-OCDD



Lock Mass F5



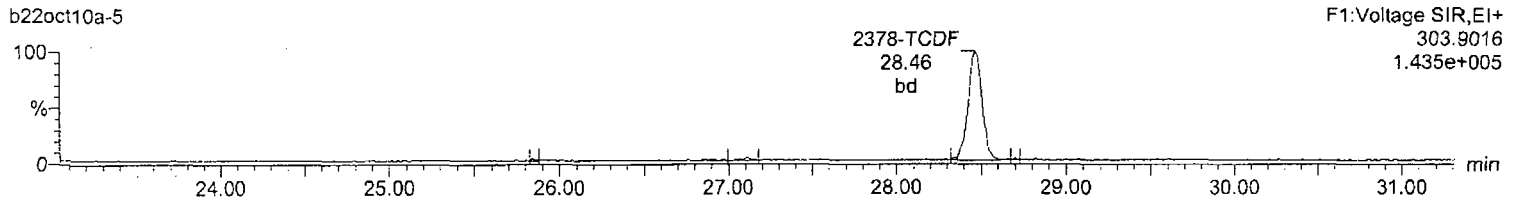
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

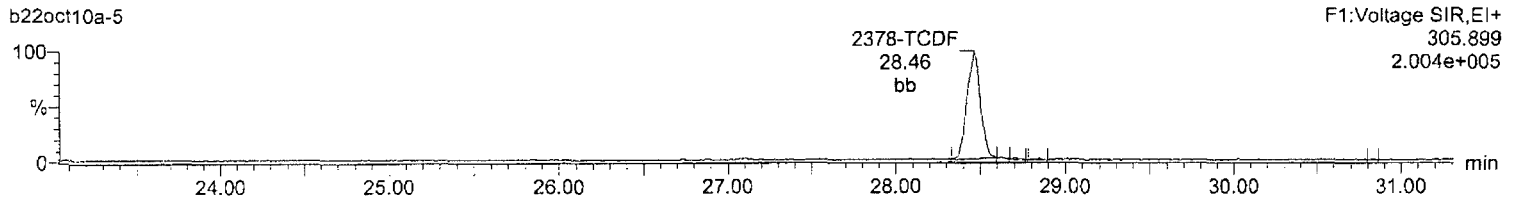
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

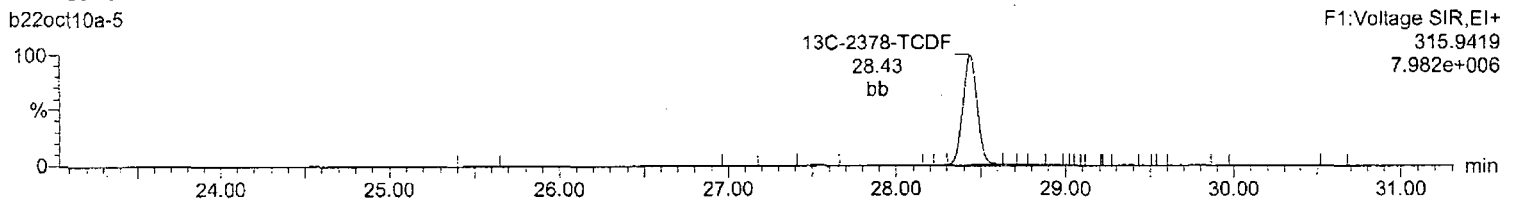
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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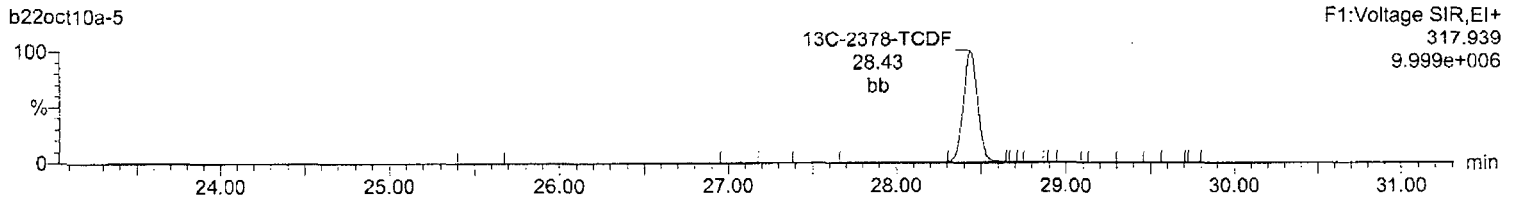
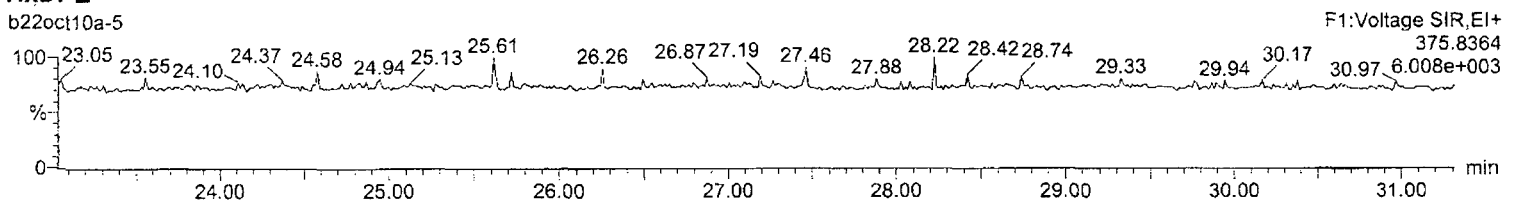
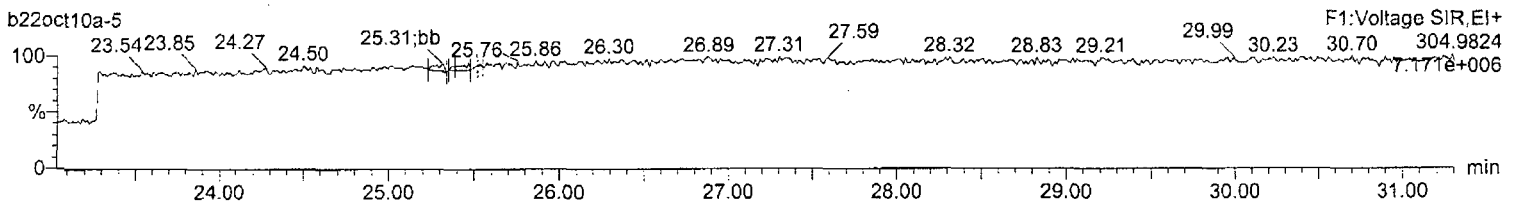


HxDPE



Lock Mass F1



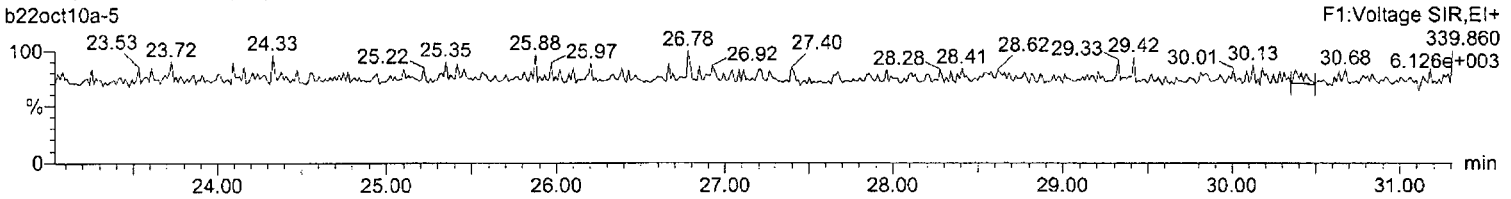
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

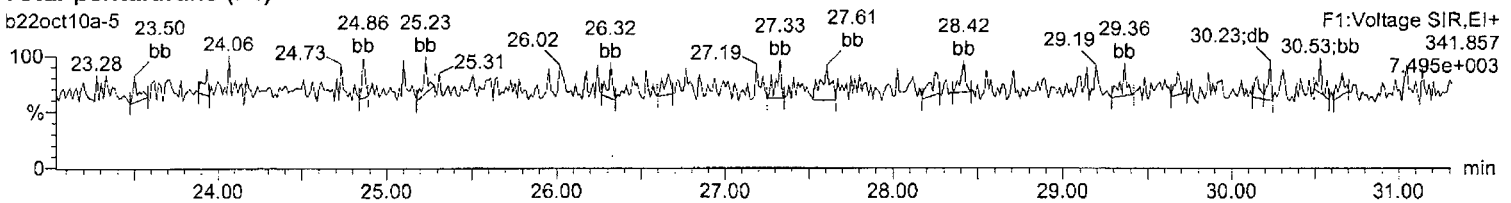
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

Total-pentafurans (F1)



Total-pentafurans (F1)



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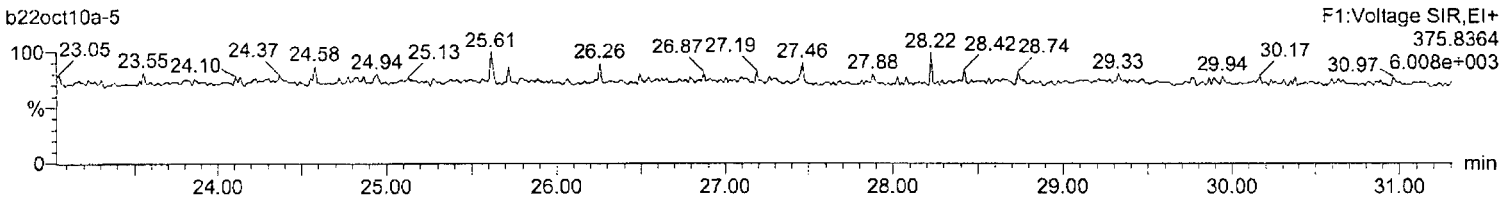
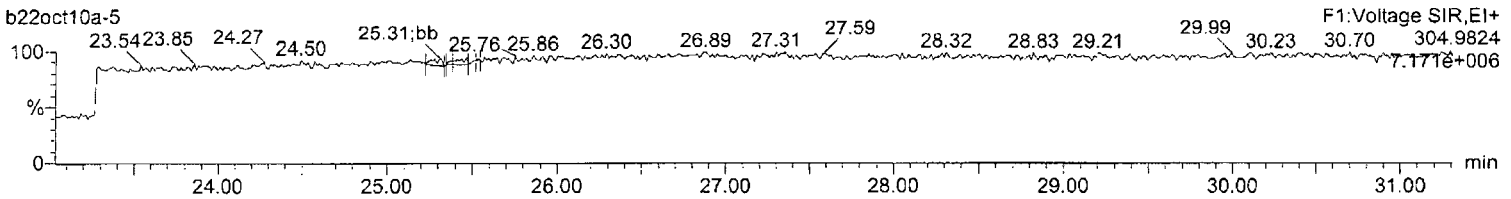


Lock Mass F1



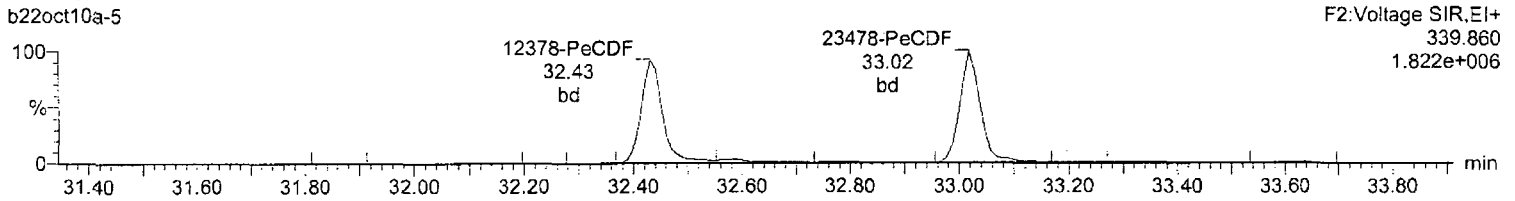
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

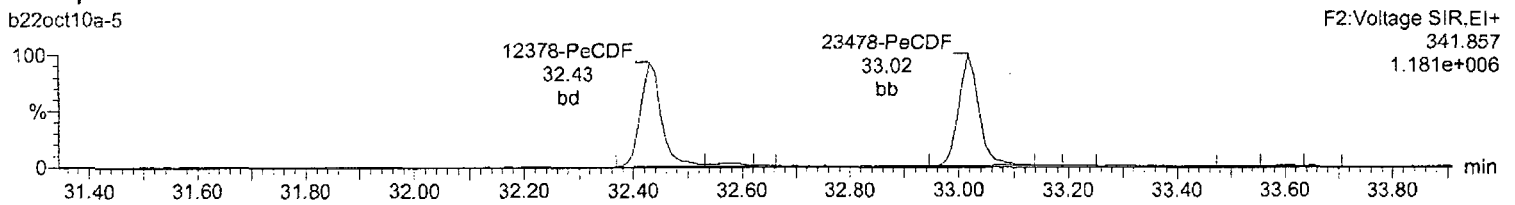
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

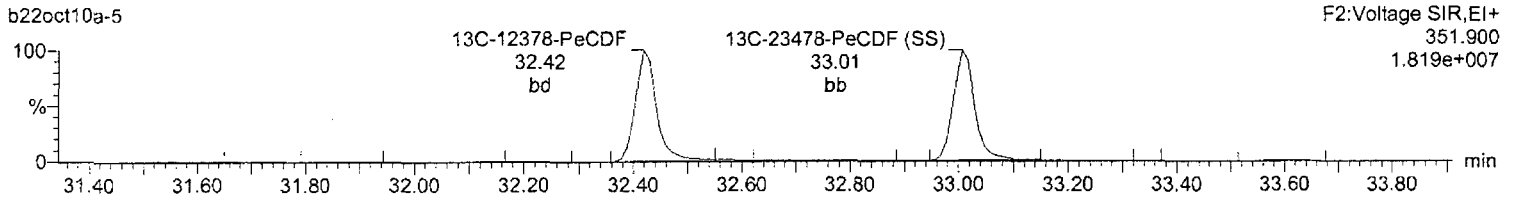
Total-pentafurans



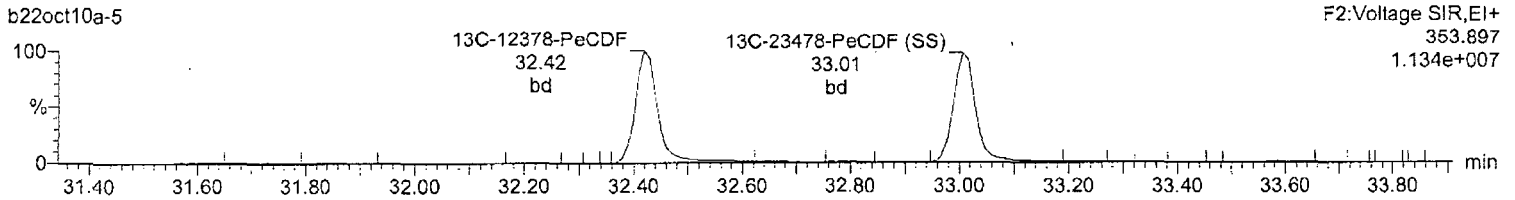
Total-pentafurans



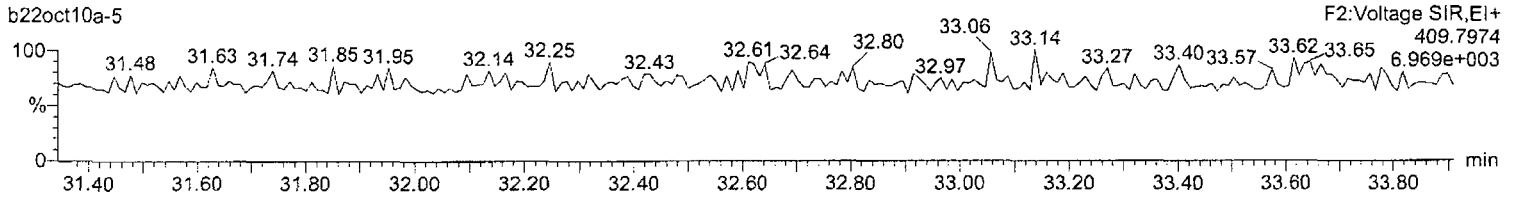
13C-12378-PeCDF



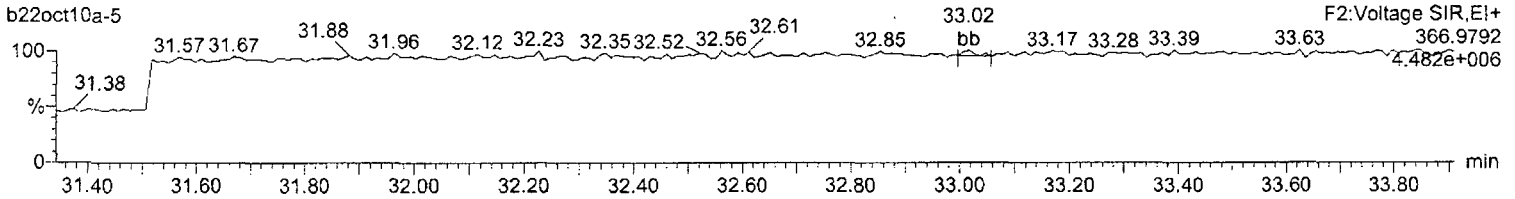
13C-12378-PeCDF



HpDPE



Lock Mass F2



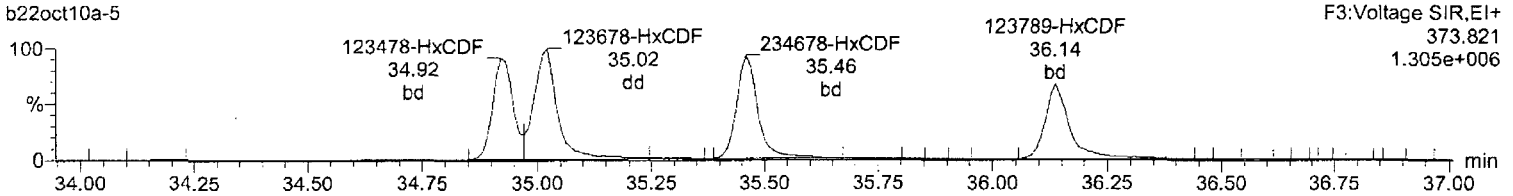
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

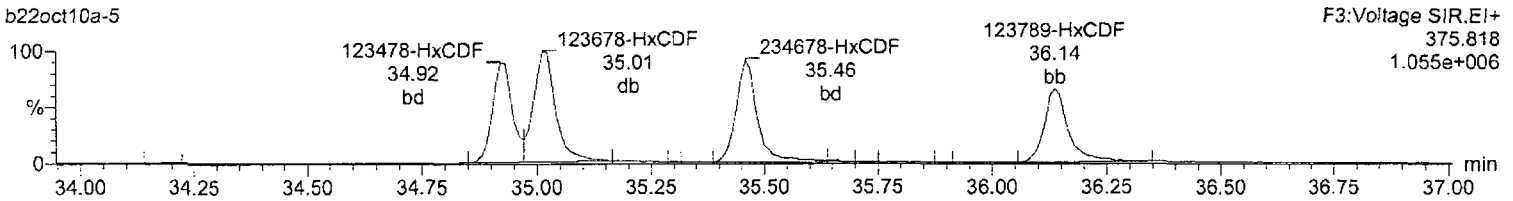
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

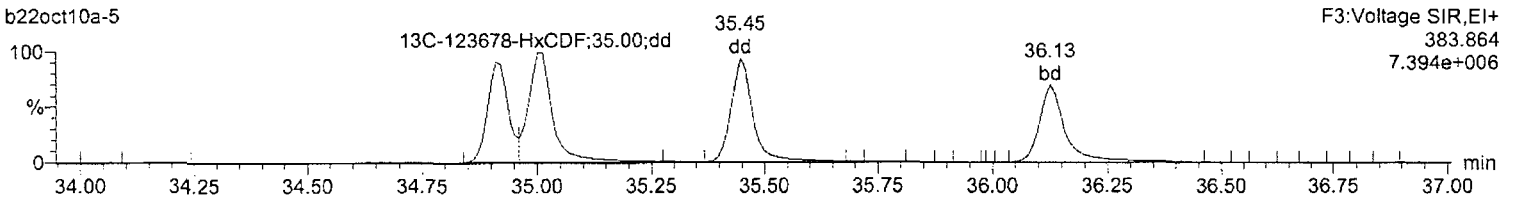
Total-hexafurans



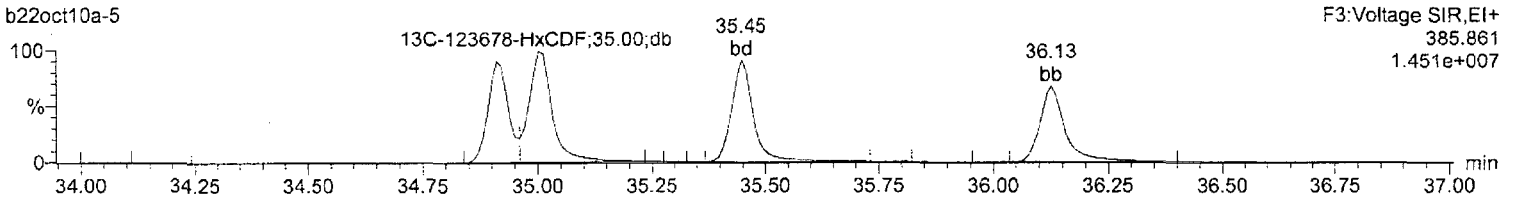
Total-hexafurans



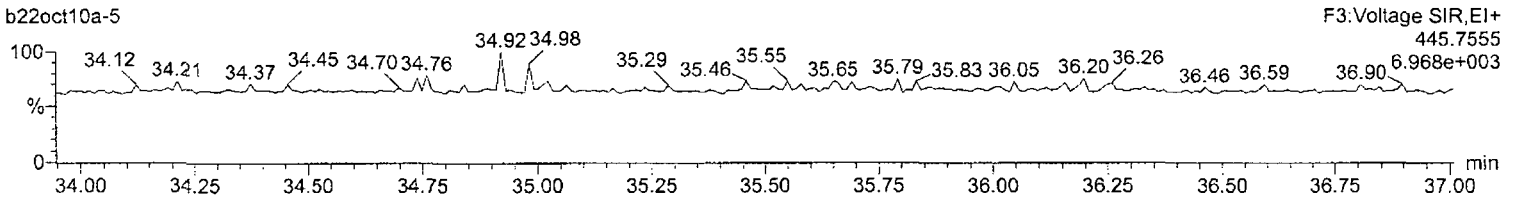
13C-123678-HxCDF



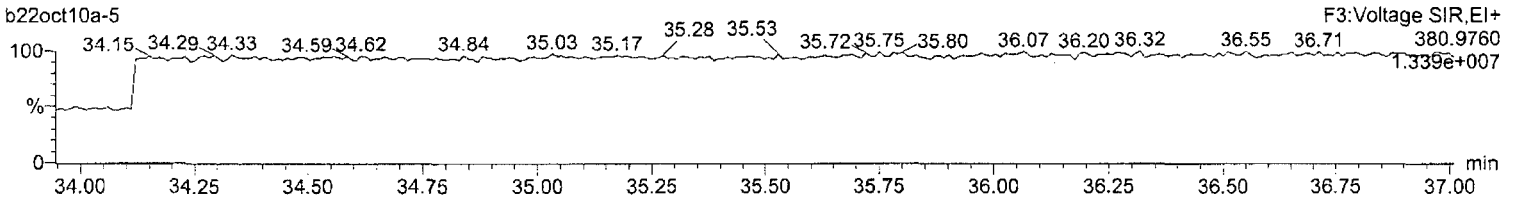
13C-123678-HxCDF



OcDPE



Lock Mass F3



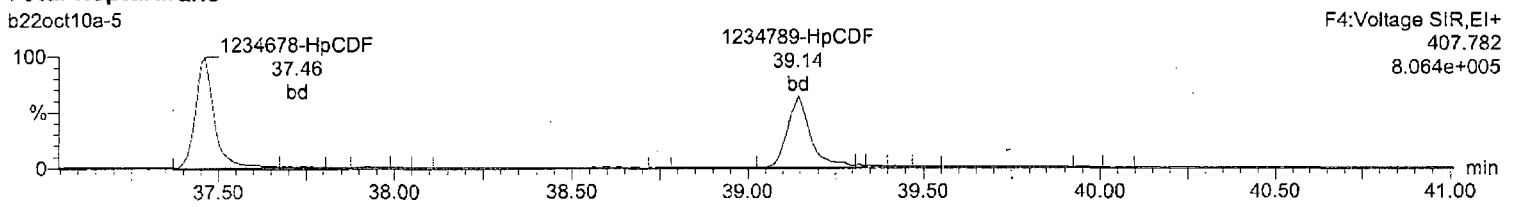
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

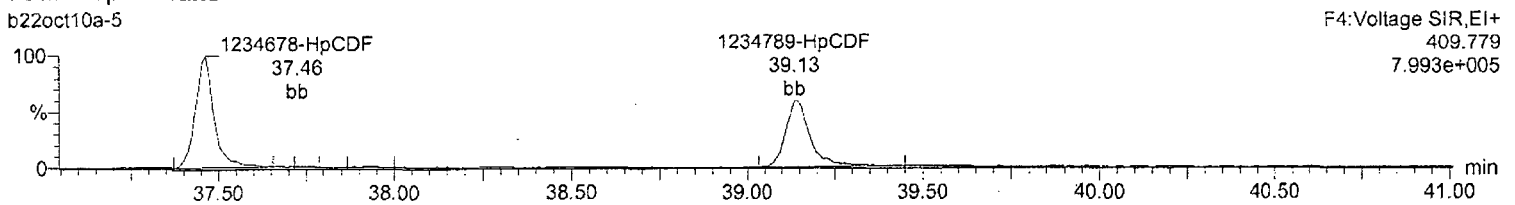
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

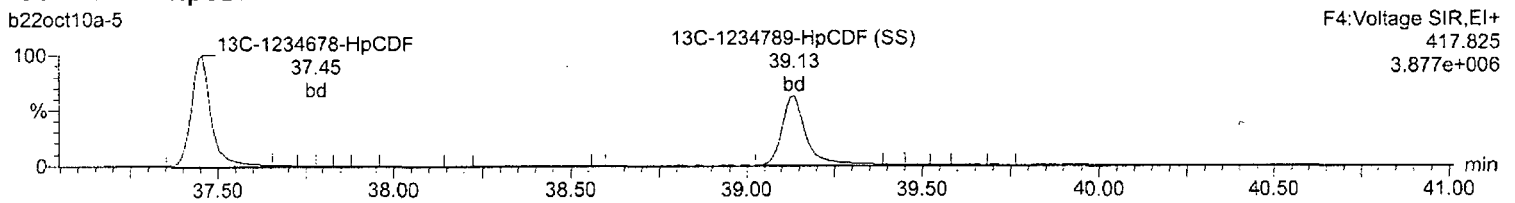
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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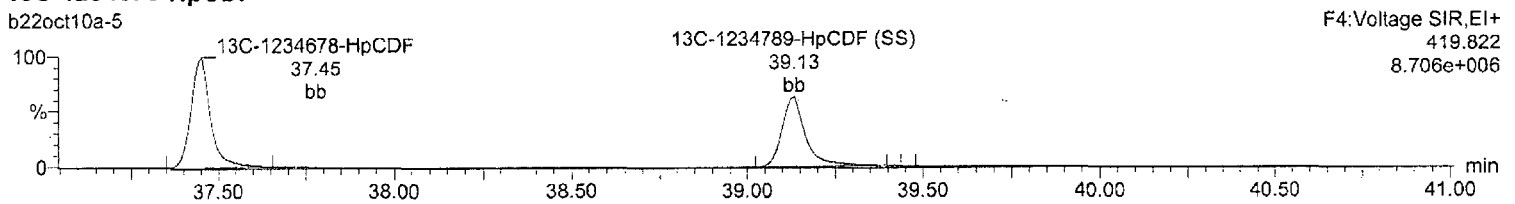
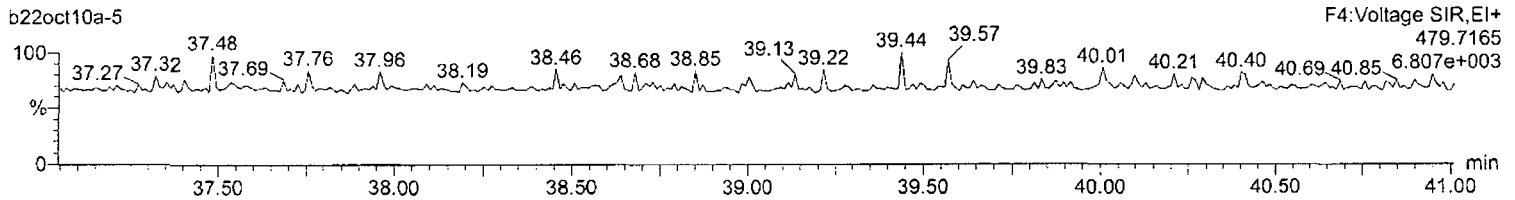
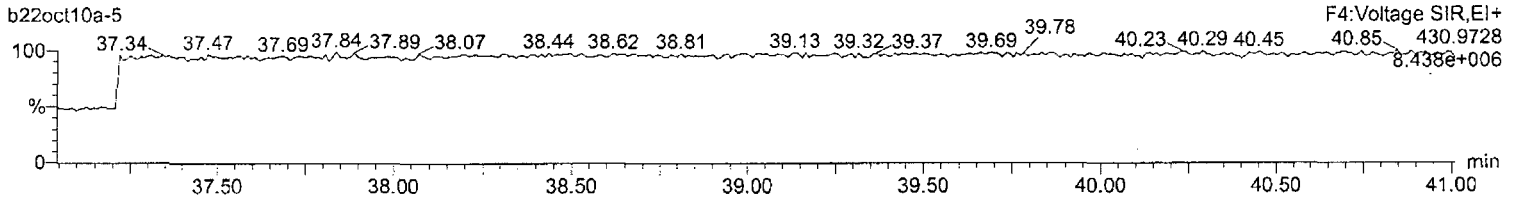


NoDPE



Lock Mass F4



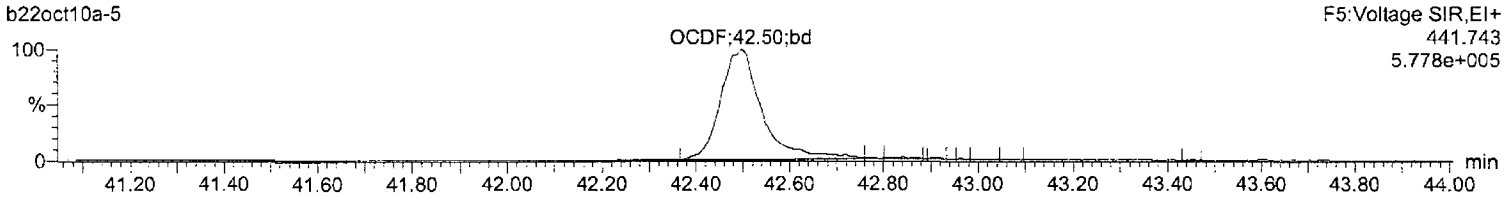
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

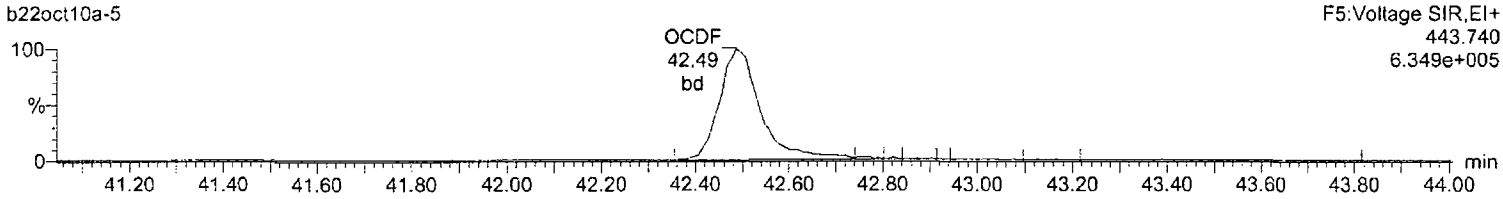
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-5, Date: 22-Oct-2010, Time: 13:50:44, ID: CS2 UD090323-03, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

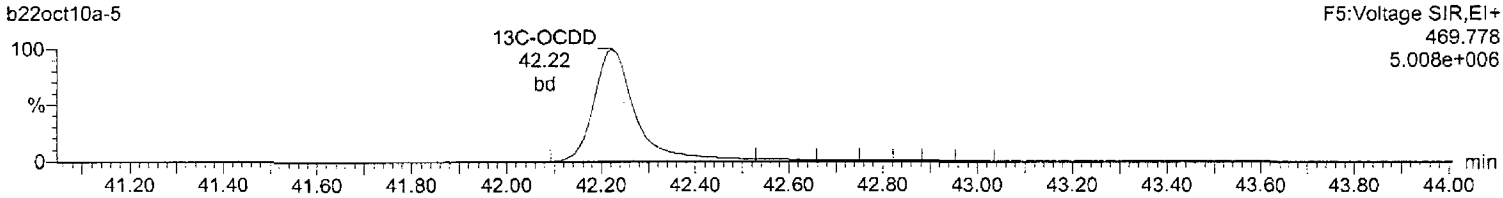
OCDF



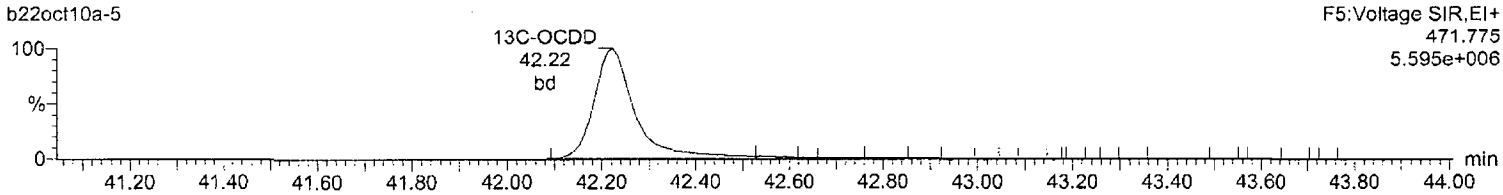
OCDF



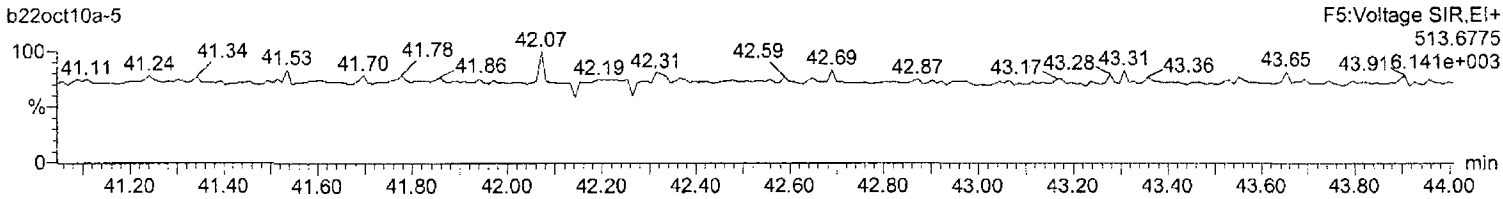
13C-OCDD



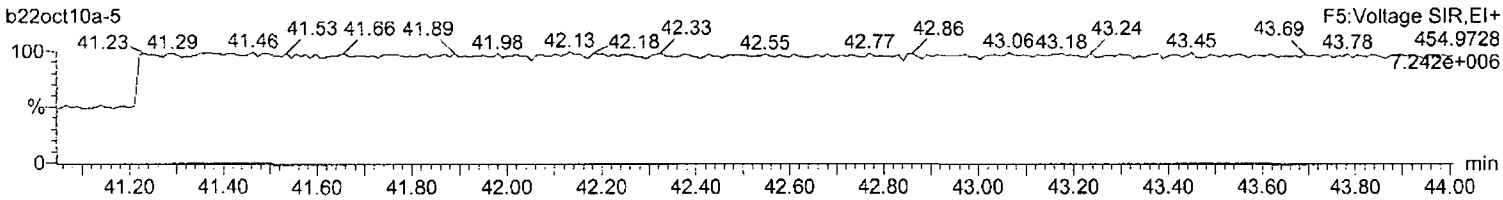
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	3.87e4	4.95e4	8.81e4	29.39	1.00	0.78	NO	9.977	0.923	0.0604	4.05e5	815	496.8	4.99e5	964	517.7	bb
2	12378-PeCDD	2.25e5	1.41e5	3.66e5	33.20	1.00	1.60	NO	51.562	1.022	0.0874	4.60e6	2800	1644.1	2.86e6	1612	1774.0	bb
3	123478-HxCDD	1.79e5	1.45e5	3.24e5	35.58	1.00	1.23	NO	52.451	0.822	0.185	3.70e6	3218	1149.1	2.94e6	3230	910.2	bd
4	123678-HxCDD	2.22e5	1.75e5	3.97e5	35.65	1.00	1.26	NO	54.881	1.008	0.157	3.59e6	3218	1115.4	2.93e6	3230	905.8	dd
5	123789-HxCDD	2.00e5	1.61e5	3.61e5	35.86	1.01	1.25	NO	54.862	0.917	0.173	3.08e6	3218	956.0	2.52e6	3230	781.4	dd
6	1234678-HpCDD	1.43e5	1.37e5	2.80e5	38.57	1.00	1.05	NO	51.339	1.012	0.409	1.98e6	5462	362.2	1.90e6	4030	472.6	bd
7	OCDD	2.29e5	2.64e5	4.93e5	42.23	1.00	0.87	NO	104.789	1.028	0.440	2.38e6	3495	679.6	2.68e6	3412	784.8	bd
8	2378-TCDF	6.56e4	8.41e4	1.50e5	28.46	1.00	0.78	NO	9.979	0.937	0.0451	6.96e5	977	712.6	8.74e5	1324	660.2	bd
9	12378-PeCDF	3.57e5	2.33e5	5.90e5	32.43	1.00	1.53	NO	51.562	0.916	0.100	7.92e6	3389	2335.4	4.95e6	5198	952.0	dd
10	23478-PeCDF	3.37e5	2.22e5	5.60e5	33.02	1.02	1.52	NO	48.288	0.868	0.0992	7.74e6	3389	2284.7	5.18e6	5198	996.1	bb
11	123478-HxCDF	2.61e5	2.15e5	4.76e5	34.92	1.00	1.22	NO	49.691	0.840	0.277	5.41e6	7113	760.9	4.48e6	7474	599.6	bd
12	123678-HxCDF	3.40e5	2.81e5	6.22e5	35.01	1.00	1.21	NO	52.336	1.097	0.223	5.92e6	7113	831.9	4.82e6	7474	645.1	dd
13	234678-HxCDF	3.00e5	2.40e5	5.40e5	35.46	1.01	1.25	NO	50.616	0.953	0.248	5.34e6	7113	751.3	4.35e6	7474	581.5	dd
14	123789-HxCDF	2.37e5	1.91e5	4.29e5	36.14	1.03	1.24	NO	49.558	0.756	0.306	3.68e6	7113	516.7	3.04e6	7474	406.2	bd
15	1234678-HpCDF	2.43e5	2.38e5	4.81e5	37.45	1.00	1.02	NO	51.600	1.302	0.216	3.73e6	5270	708.1	3.78e6	5325	709.1	bd
16	1234789-HpCDF	1.75e5	1.76e5	3.51e5	39.13	1.05	1.00	NO	49.552	0.951	0.284	2.27e6	5270	430.8	2.24e6	5325	421.4	bb
17	OCDF	2.89e5	3.17e5	6.06e5	42.49	1.01	0.91	NO	105.521	1.263	0.365	2.93e6	3860	759.9	3.19e6	3115	1024.7	bd
18	13C-2378-TCDD	4.20e5	5.35e5	9.55e5	29.36	1.03	0.78	NO	93.932	1.040	0.142	4.20e6	2743	1530.7	5.47e6	2455	2226.2	bb
19	13C-12378-PeCDD	4.38e5	2.77e5	7.15e5	33.19	1.16	1.58	NO	93.502	0.779	0.125	9.36e6	2132	4391.5	5.75e6	1302	4412.4	bb
20	13C-123678-HxCDD	4.28e5	3.59e5	7.88e5	35.64	0.99	1.19	NO	107.366	1.175	0.221	7.28e6	3667	1984.7	6.03e6	5432	1109.4	db
21	13C-1234678-HpCDD	2.92e5	2.62e5	5.54e5	38.56	1.08	1.12	NO	109.515	0.826	0.306	3.73e6	4237	879.9	3.52e6	4438	792.2	bd
22	13C-OCDD	4.59e5	5.01e5	9.60e5	42.22	1.18	0.92	NO	217.672	0.715	0.443	4.59e6	4894	936.9	5.09e6	6053	840.2	bd
23	13C-2378-TCDF	7.10e5	8.88e5	1.60e6	28.43	0.99	0.80	NO	100.974	1.741	0.0862	7.25e6	2352	3080.9	9.07e6	2563	3537.9	bd
24	13C-12378-PeCDF	7.84e5	5.06e5	1.29e6	32.42	1.13	1.55	NO	99.249	1.404	0.238	1.76e7	5571	3151.1	1.12e7	5570	2013.9	bd
25	13C-123678-HxCDF	3.86e5	7.47e5	1.13e6	35.00	0.98	0.52	NO	114.655	1.689	0.285	6.38e6	6388	999.1	1.27e7	9418	1353.2	dd
26	13C-1234678-HpCDF	2.27e5	5.11e5	7.38e5	37.44	1.04	0.44	NO	114.380	1.100	0.280	3.58e6	4028	889.2	7.73e6	6101	1267.3	bd
27	13C-1234-TCDD	4.06e5	5.12e5	9.18e5	28.64	0.00	0.79	NO	100.000	1.000	0.157	4.39e6	2743	1600.4	5.47e6	2455	2226.4	bb
28	13C-123789-HxCDD	3.58e5	3.12e5	6.71e5	35.85	0.00	1.15	NO	100.000	1.000	0.242	6.03e6	3667	1643.3	5.03e6	5432	925.5	bb
29	37Cl-2378-TCDD (SS)	9.54e4		9.54e4	29.38	1.00			9.776	0.999	0.0535	9.36e5	1739	538.0				bb
30	13C-23478-PeCDF (SS)	7.18e5	4.51e5	1.17e6	33.01	1.02	1.59	NO	95.647	0.906	0.122	1.58e7	5571	2833.8	9.82e6	5570	1762.6	bb
31	13C-123478-HxCDF (SS)	2.82e5	5.53e5	8.35e5	34.91	1.00	0.51	NO	96.117	0.737	0.331	5.82e6	6388	910.8	1.15e7	9418	1224.2	bd
32	13C-123478-HxCDD (SS)	3.47e5	2.79e5	6.27e5	35.57	1.00	1.24	NO	101.833	0.795	0.261	6.86e6	3667	1870.0	5.41e6	5432	996.8	bd
33	13C-1234789-HpCDF (SS)	1.68e5	3.81e5	5.49e5	39.13	1.04	0.44	NO	95.501	0.744	0.335	2.20e6	4028	546.2	4.79e6	6101	784.5	bd

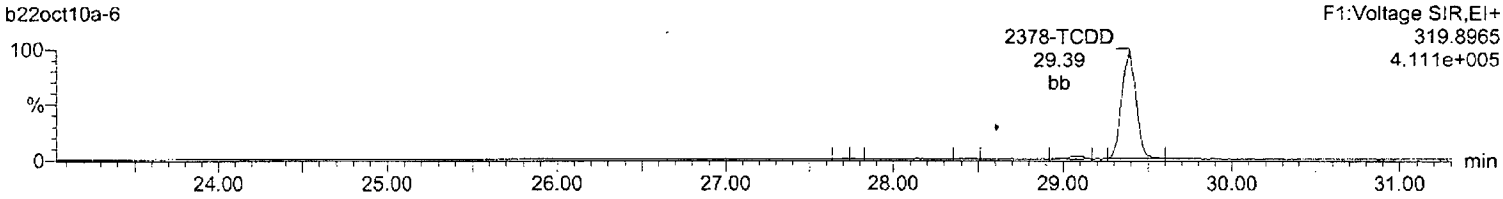
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

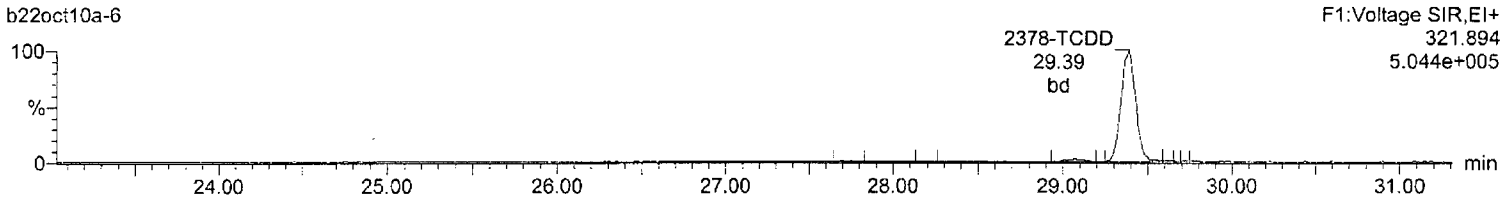
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

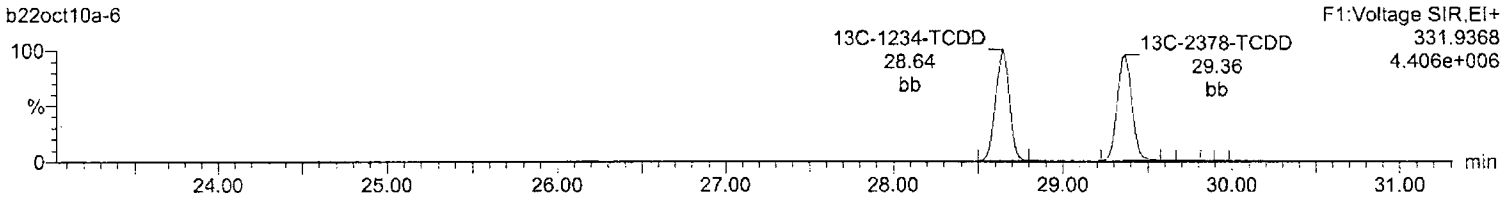
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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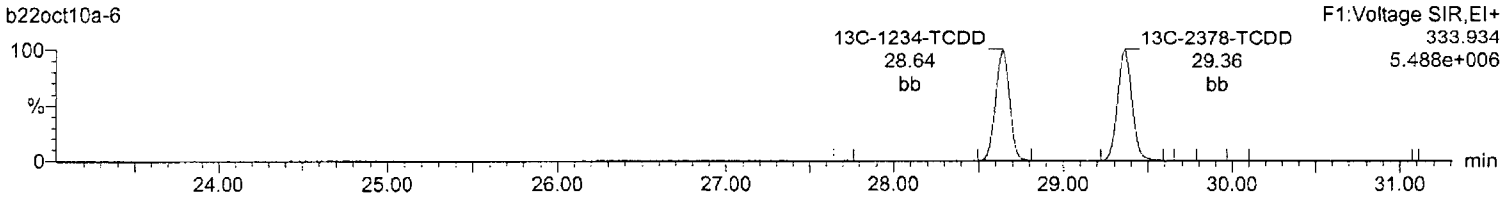
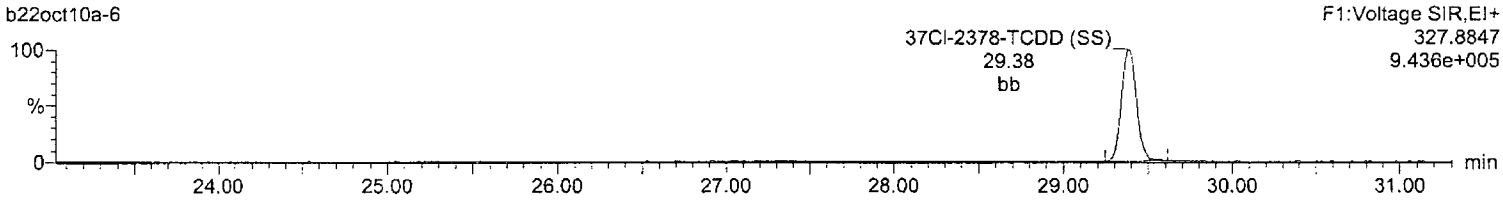
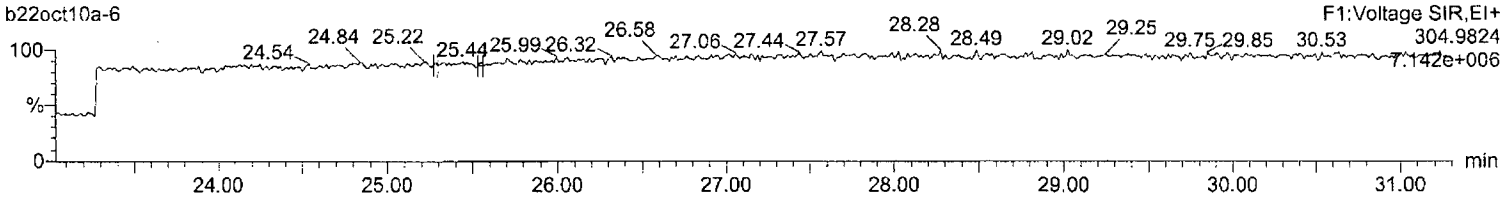


37Cl-2378-TCDD (SS)



Lock Mass F1



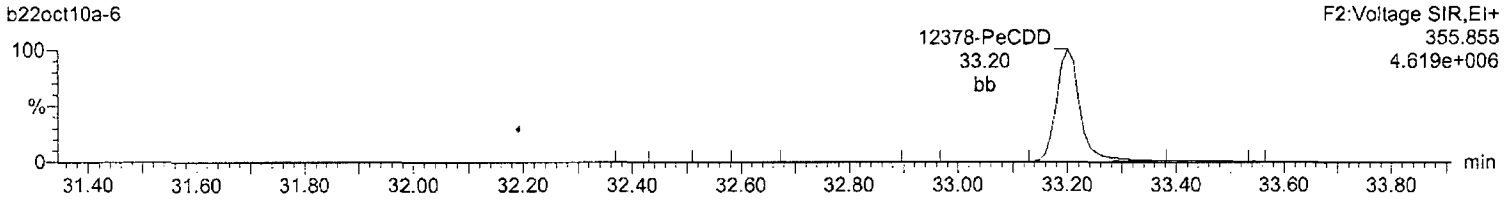
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

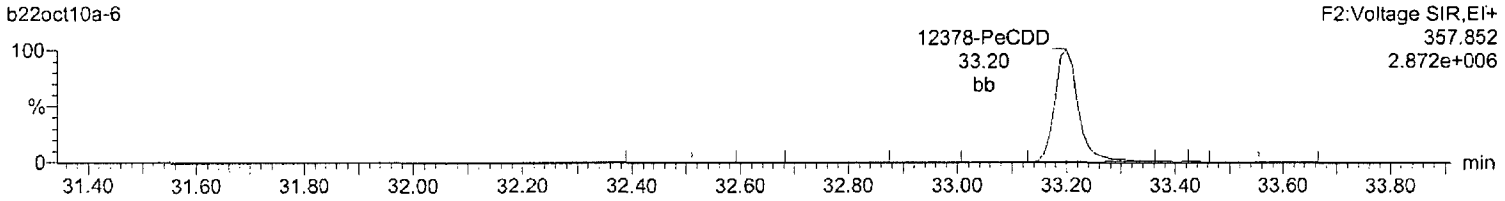
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

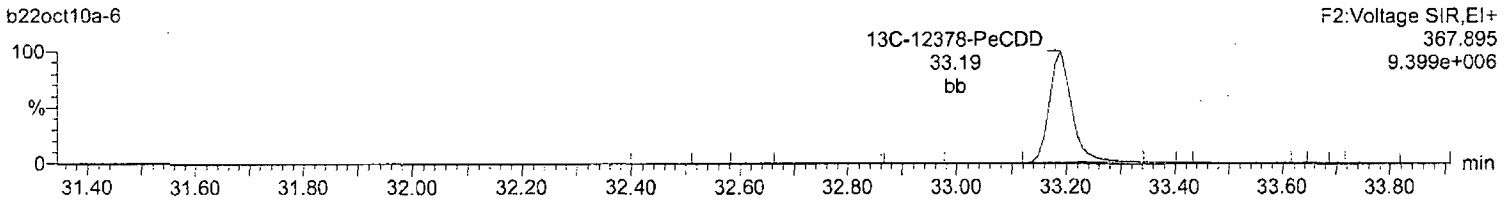
Total-pentadioxins



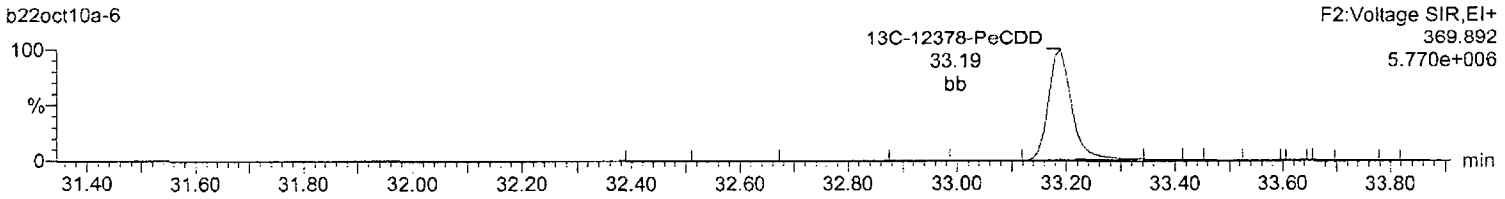
Total-pentadioxins



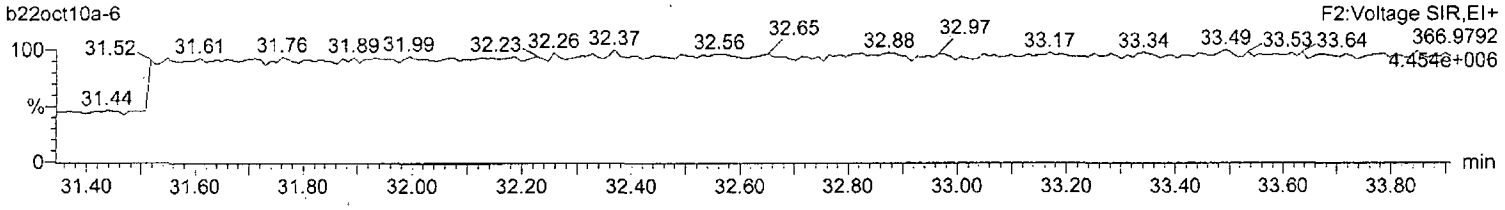
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



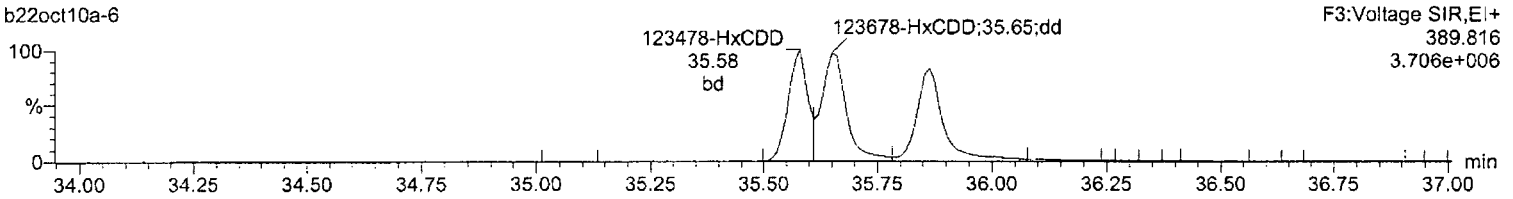
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

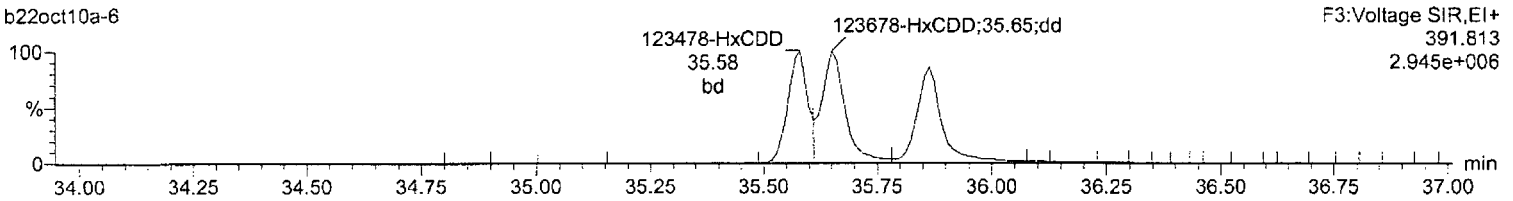
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

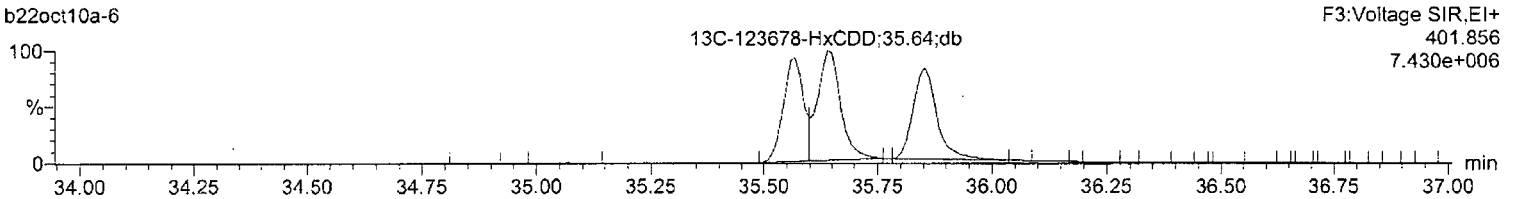
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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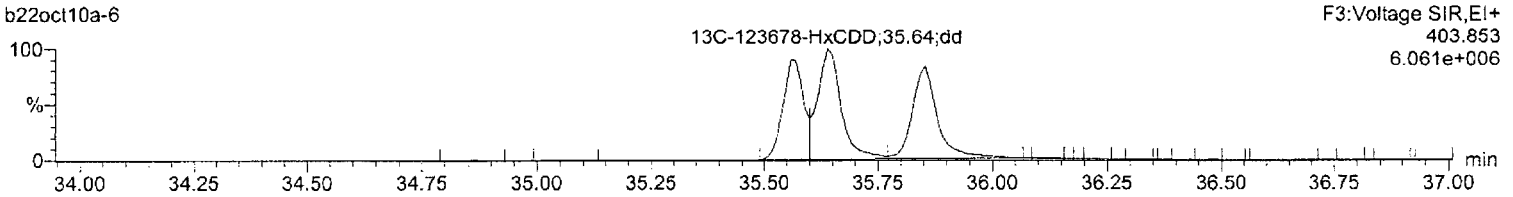
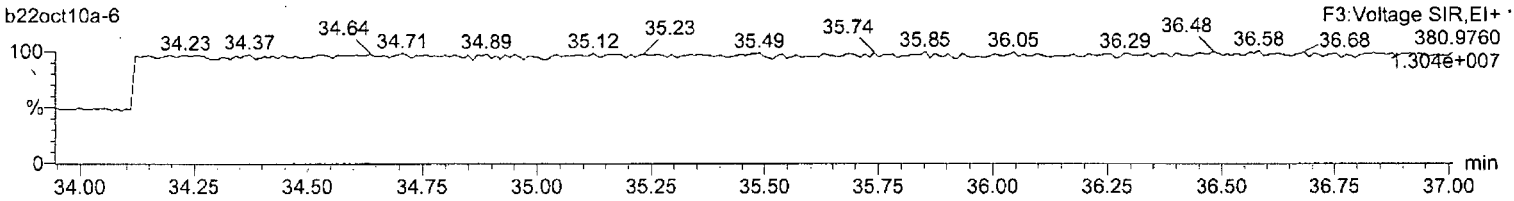


Lock Mass F3



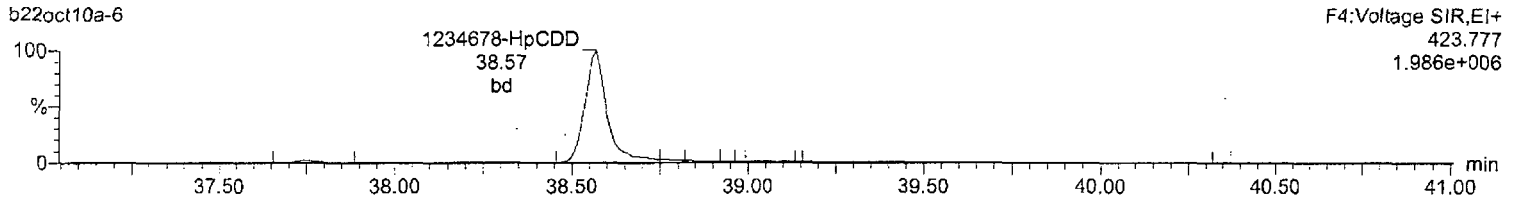
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

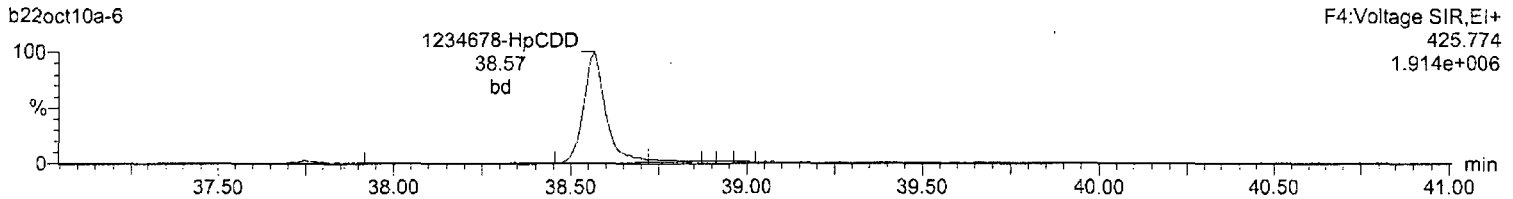
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

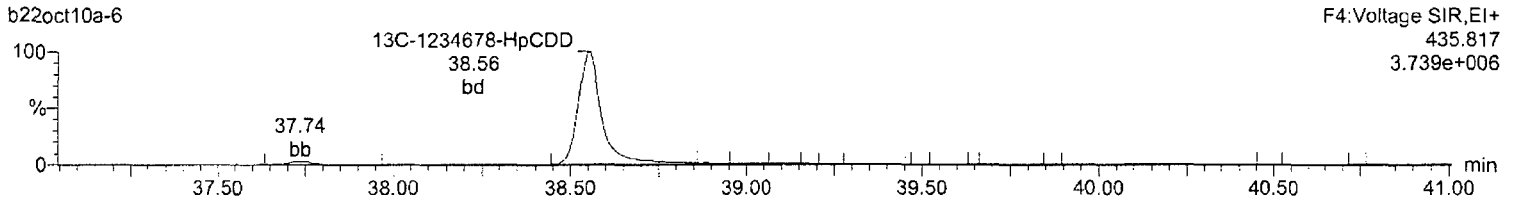
Total-heptadioxins



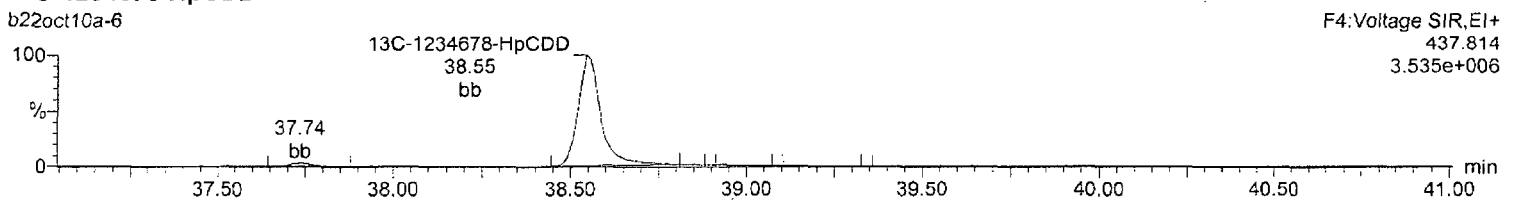
Total-heptadioxins



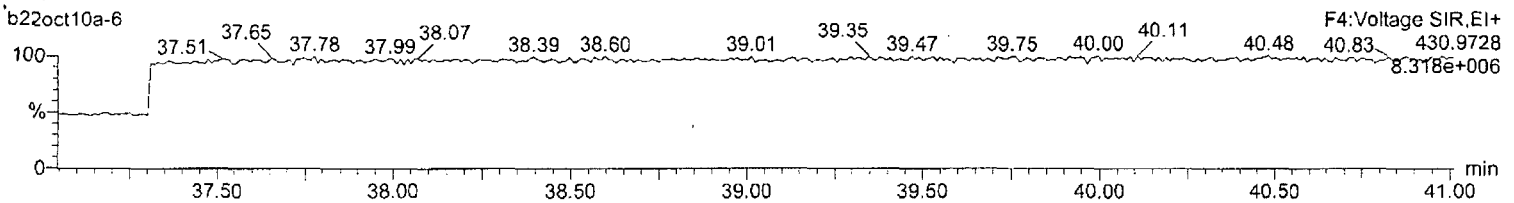
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



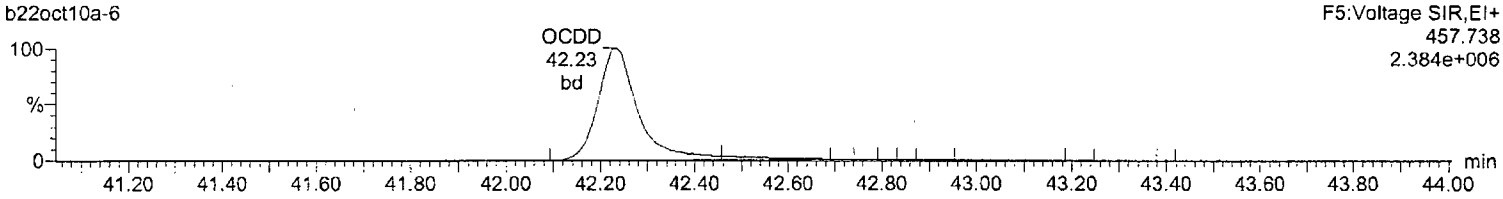
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

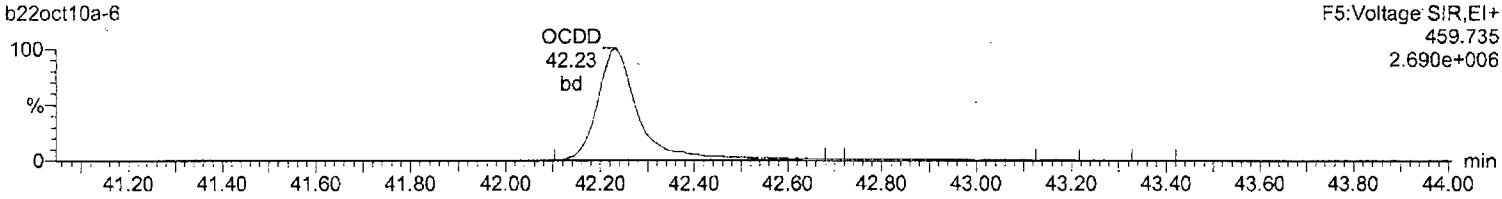
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

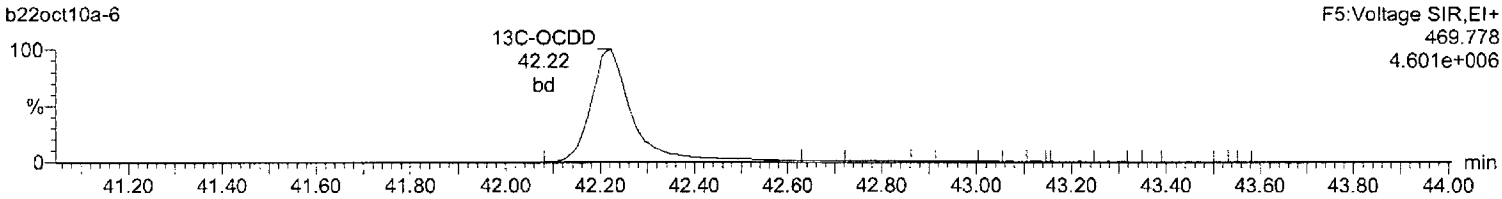
OCDD



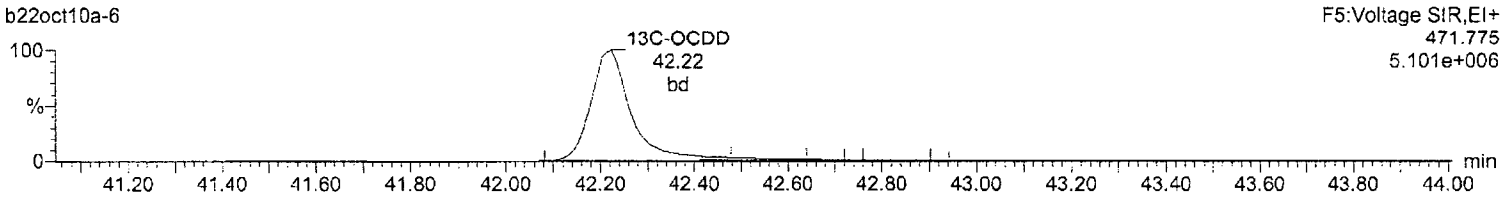
OCDD



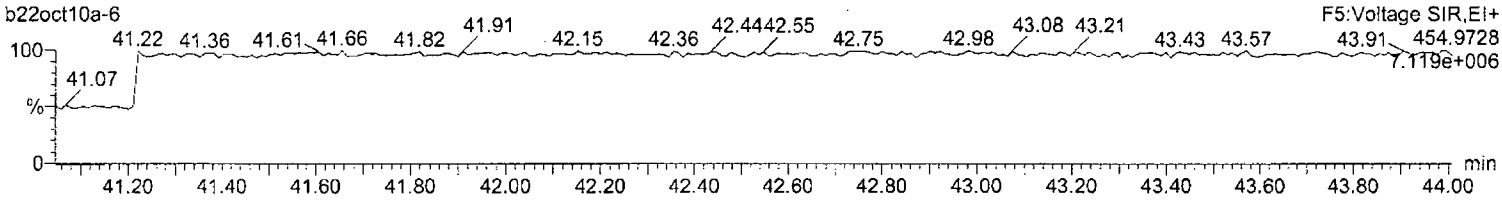
13C-OCDD



13C-OCDD



Lock Mass F5



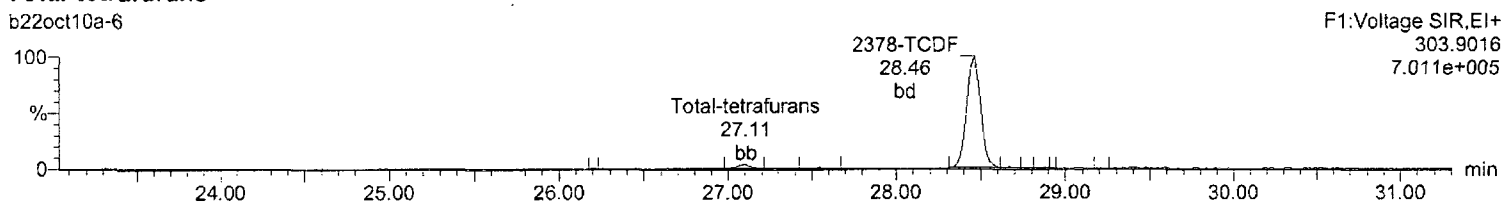
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

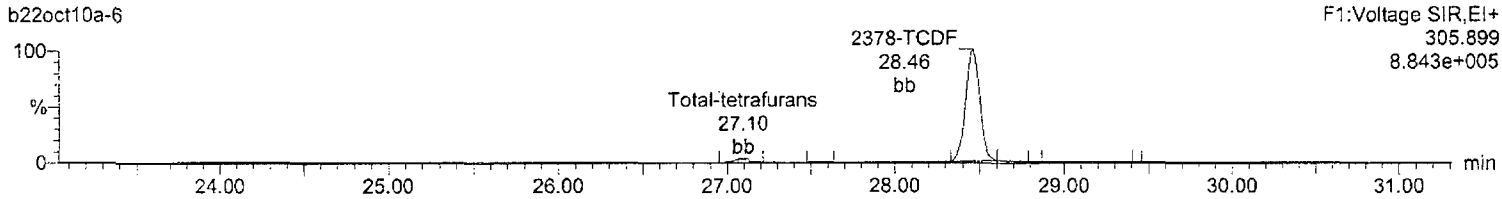
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

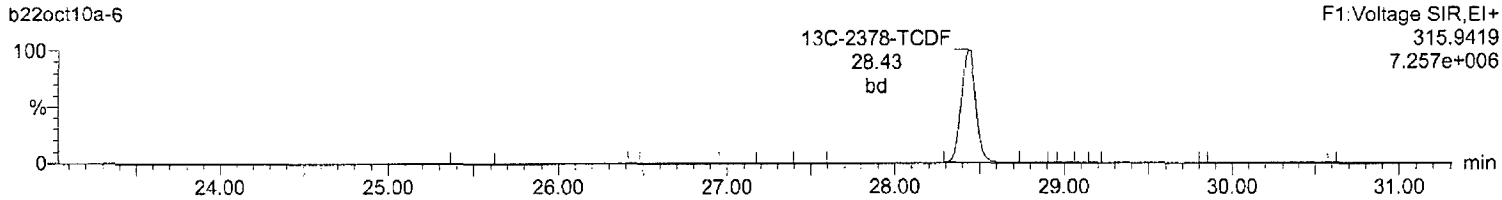
Total-tetrafurans



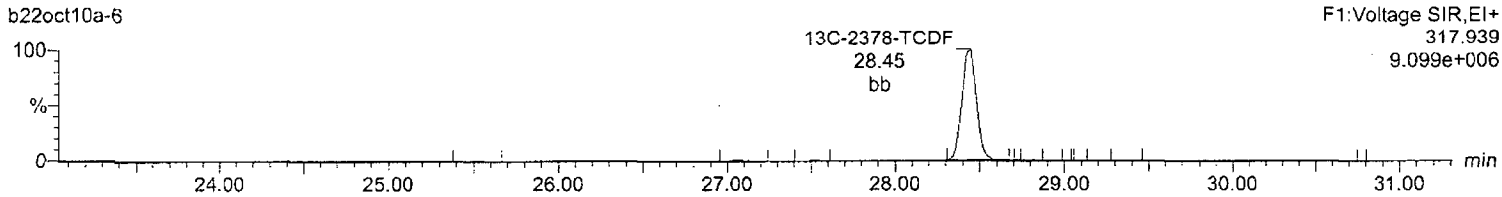
Total-tetrafurans



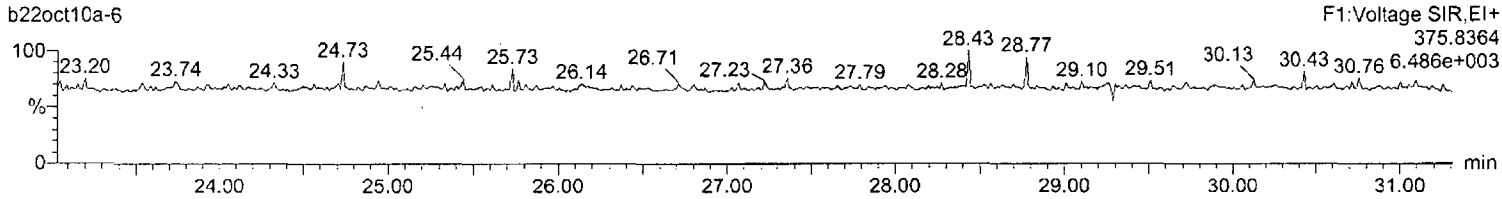
13C-2378-TCDF



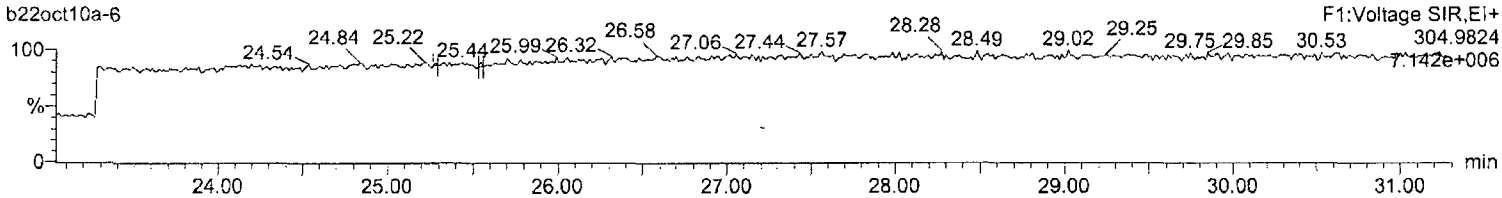
13C-2378-TCDF



HxDPE



Lock Mass F1



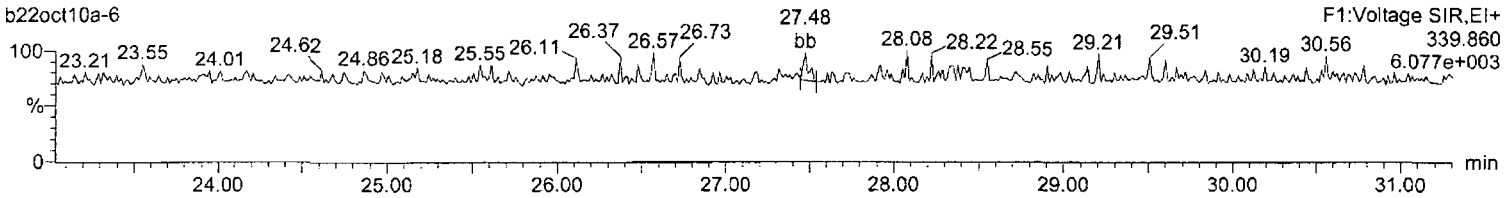
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

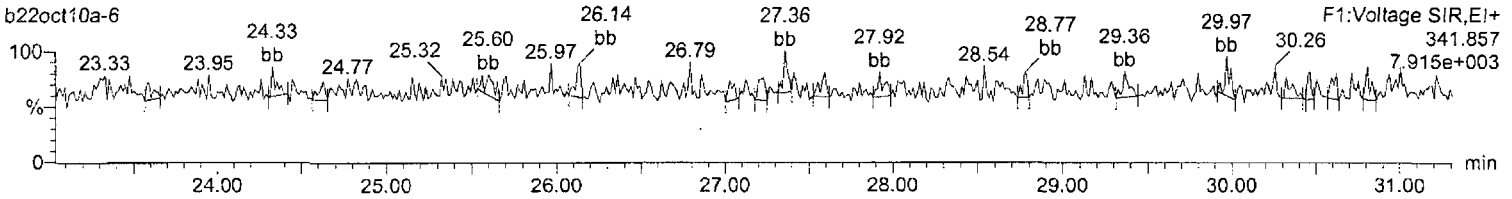
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

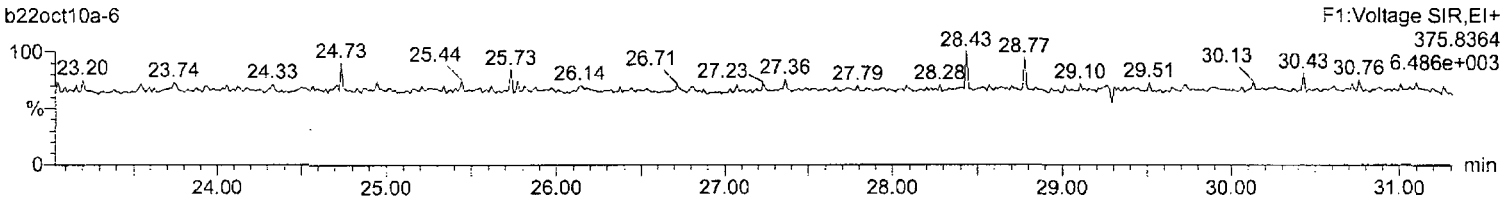
Total-pentafurans (F1)



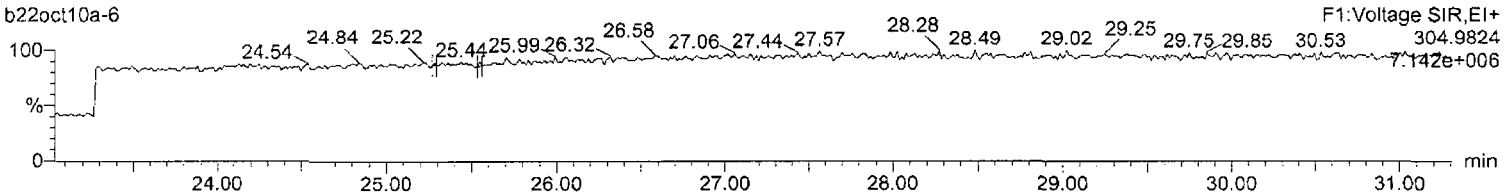
Total-pentafurans (F1)



HxDPE



Lock Mass F1



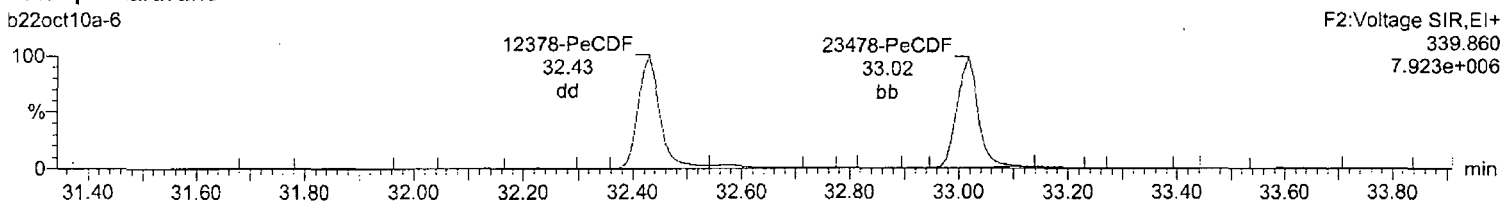
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

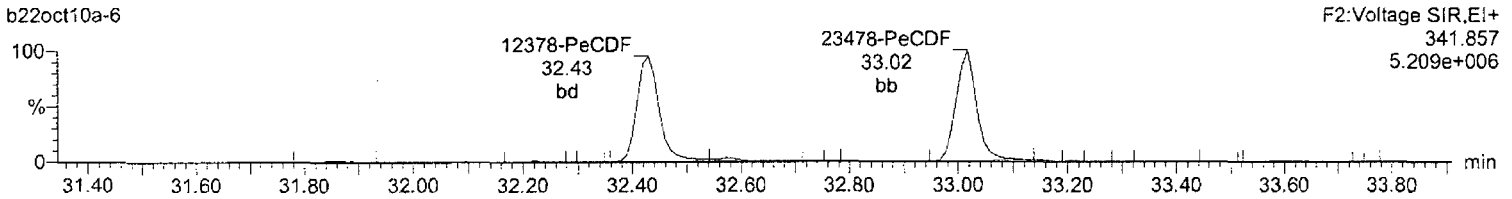
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

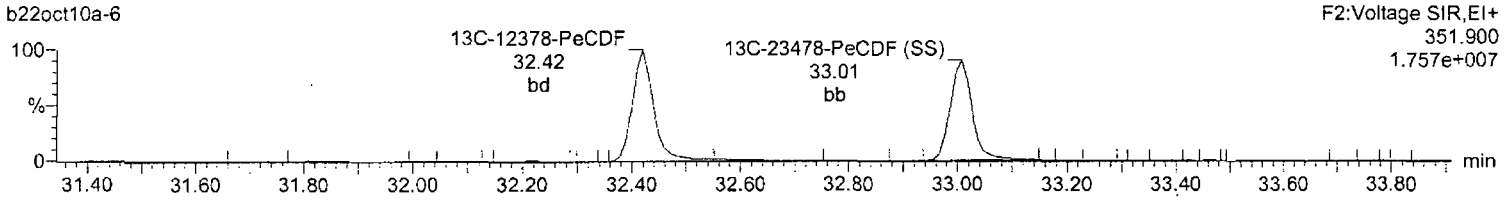
Total-pentafurans



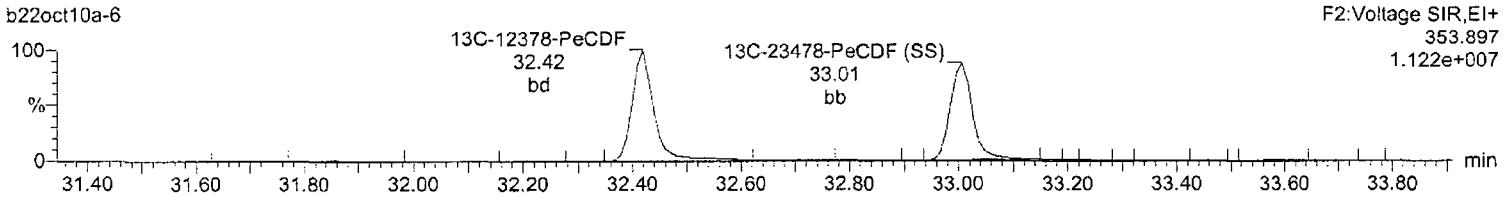
Total-pentafurans



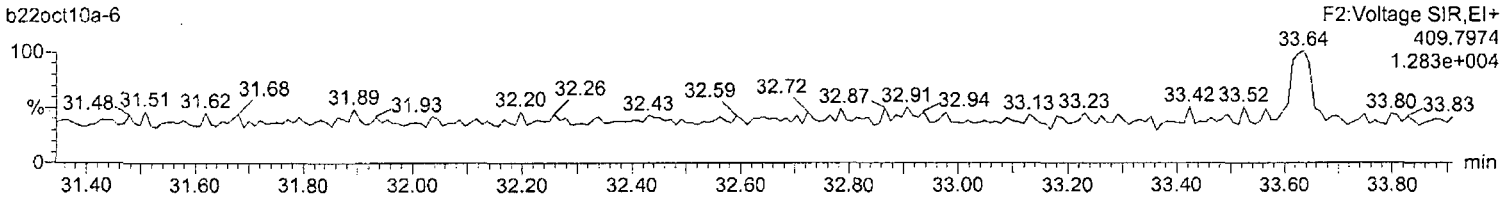
13C-12378-PeCDF



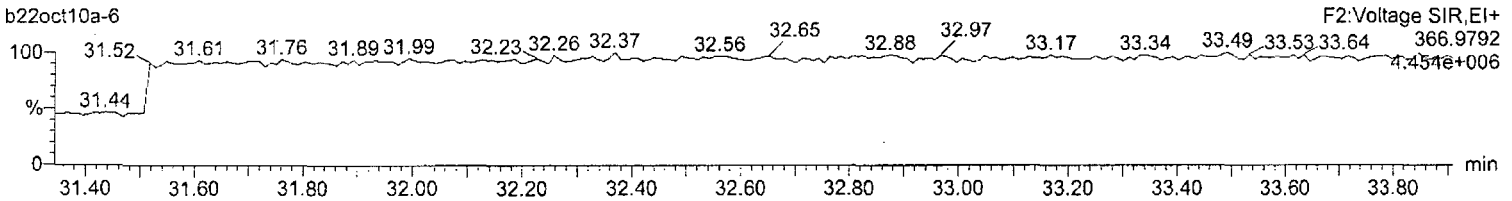
13C-12378-PeCDF



HpDPE



Lock Mass F2



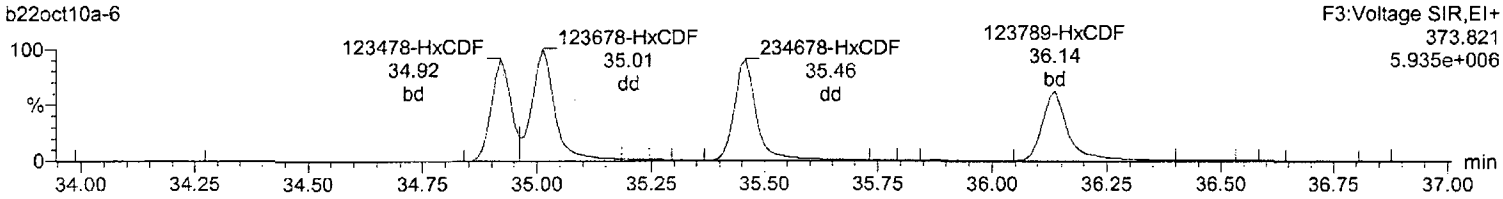
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

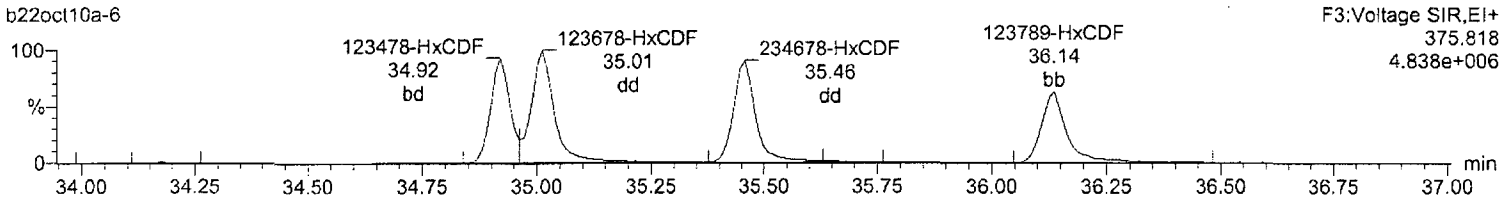
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

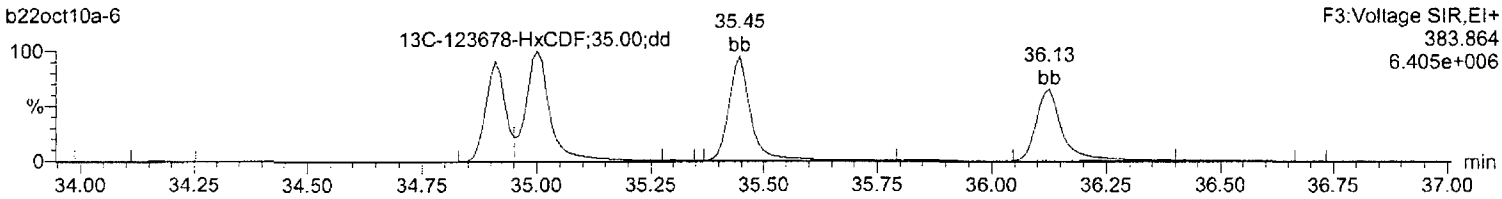
Total-hexafurans



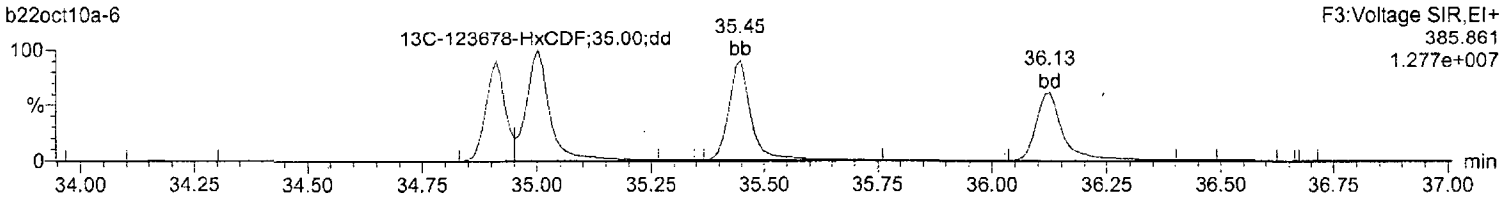
Total-hexafurans



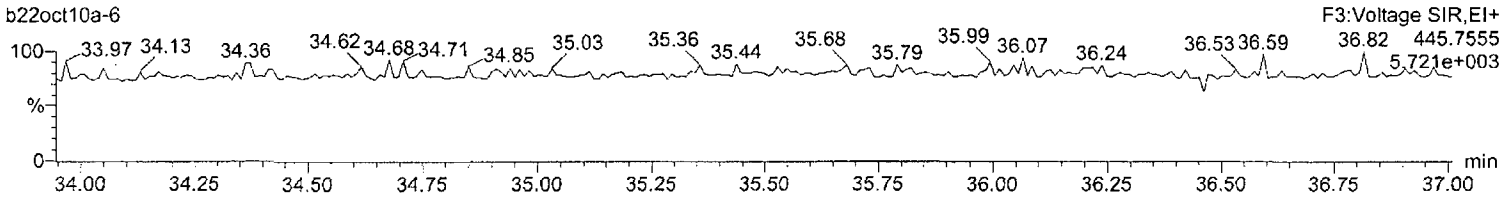
13C-123678-HxCDF



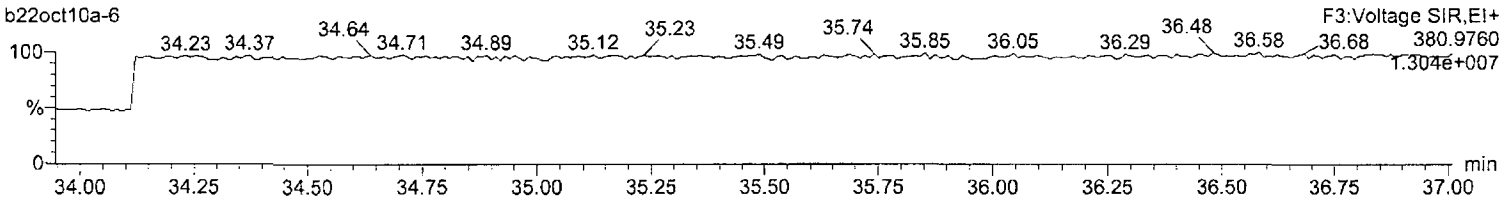
13C-123678-HxCDF



OcDPE



Lock Mass F3



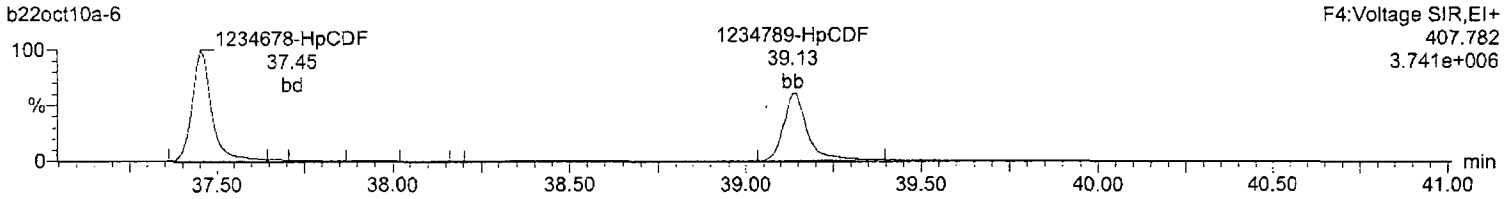
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

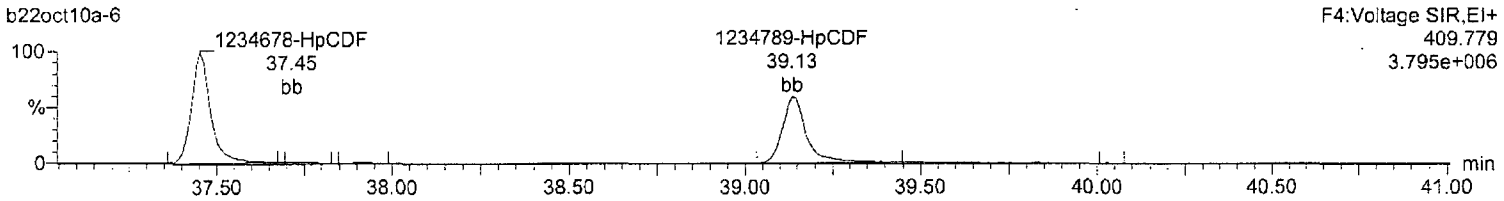
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

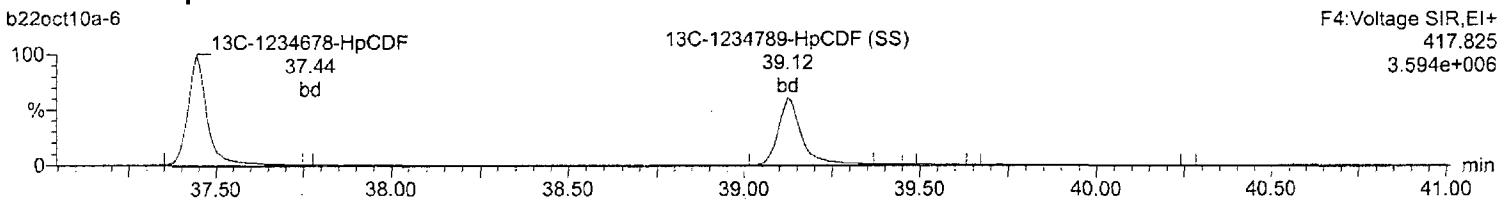
Total-heptafurans



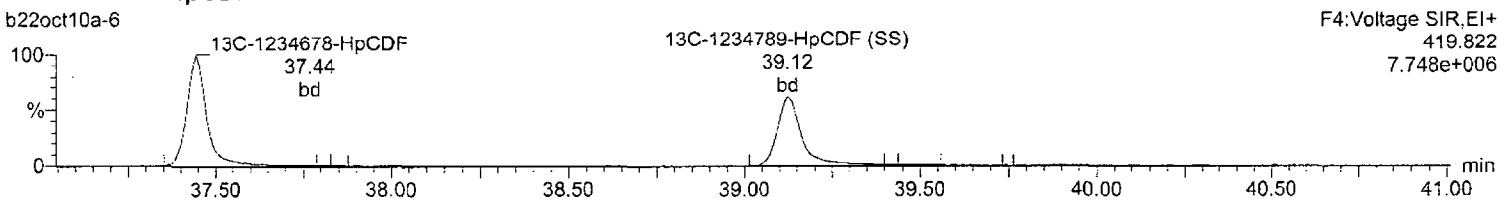
Total-heptafurans



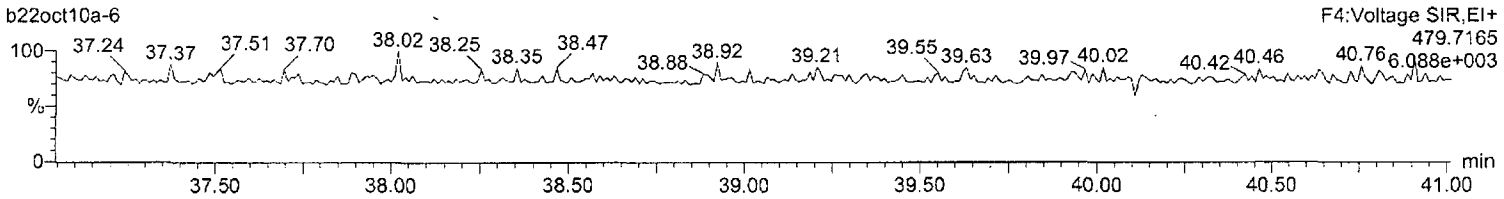
13C-1234678-HpCDF



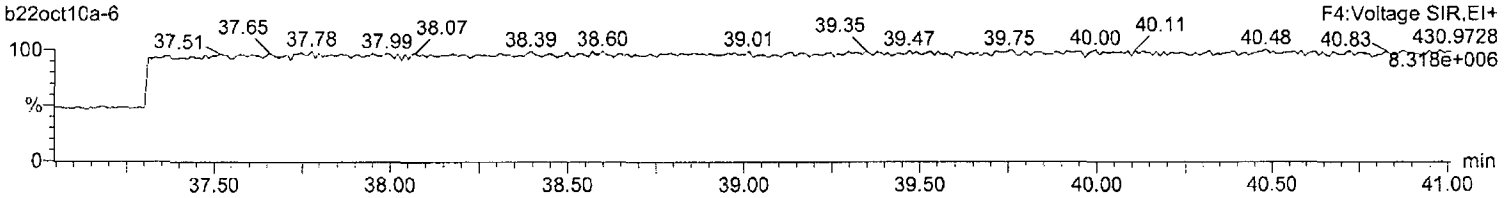
13C-1234678-HpCDF



NoDPE



Lock Mass F4



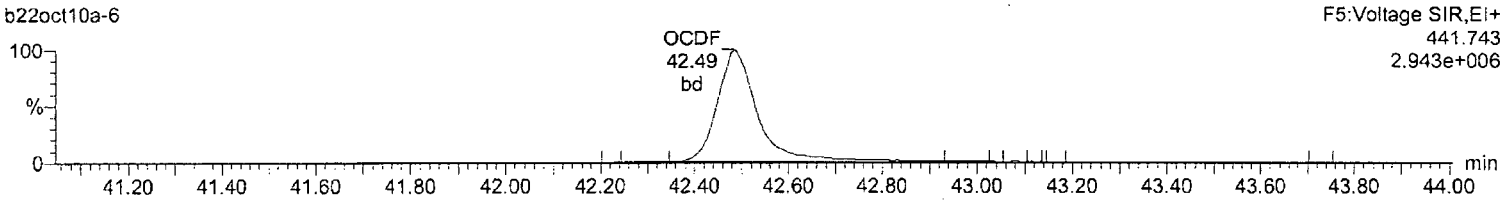
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

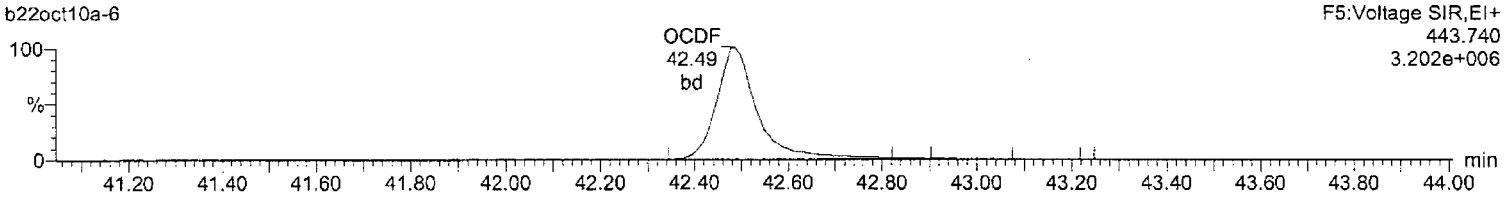
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-6, Date: 22-Oct-2010, Time: 14:36:45, ID: CS3 UD090323-04, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

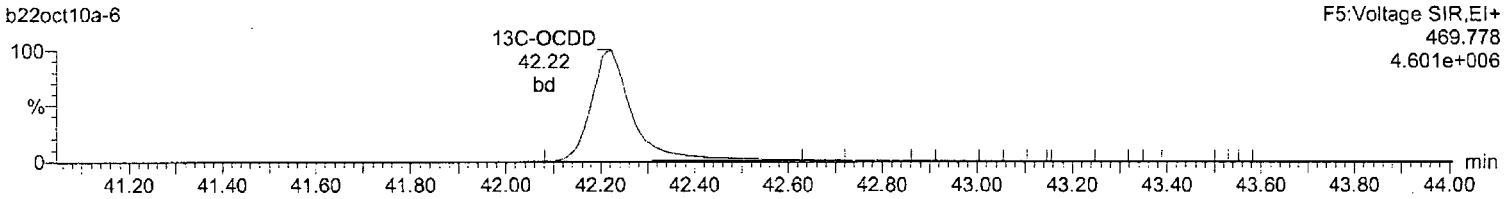
OCDF



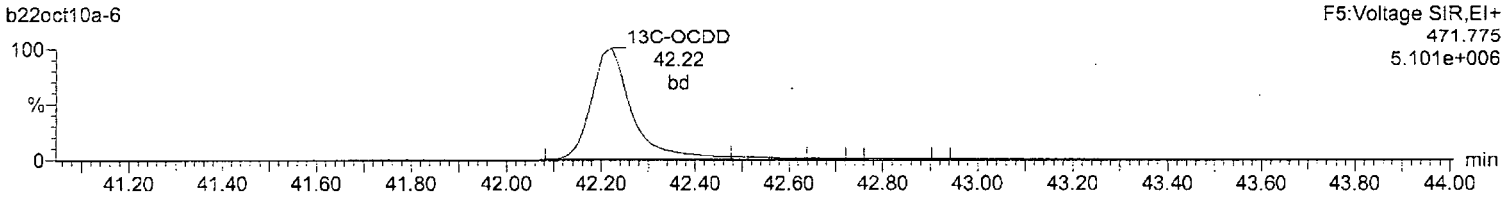
OCDF



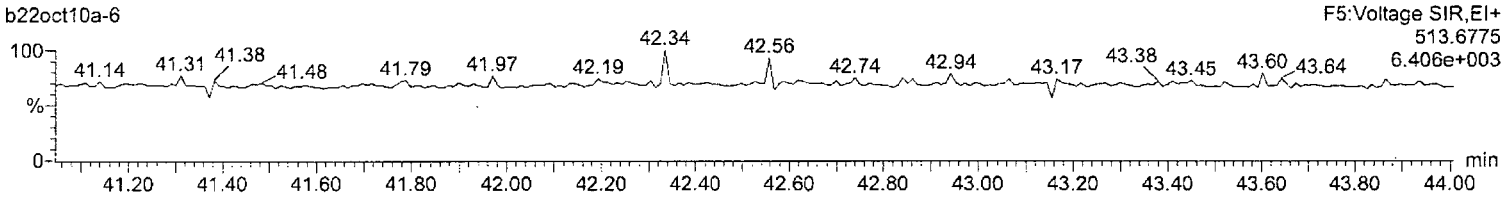
13C-OCDD



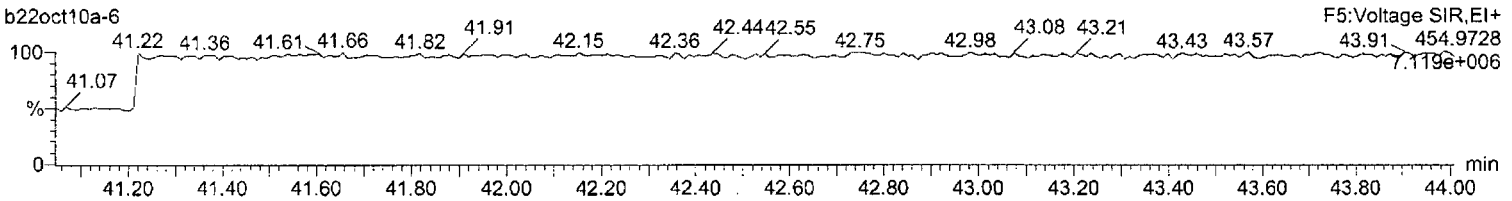
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	1.65e5	2.10e5	3.75e5	29.40	1.00	0.78	NO	44.531	1.029	0.0917	1.66e6	1343	1239.7	2.15e6	1294	1662.8	bb
	12378-PeCDD	8.93e5	5.67e5	1.46e6	33.21	1.00	1.58	NO	206.387	1.023	0.101	1.93e7	2688	7195.3	1.25e7	2444	5120.6	bb
3	123478-HxCDD	7.19e5	5.71e5	1.29e6	35.59	1.00	1.26	NO	202.681	0.794	0.393	1.45e7	6338	2280.5	1.13e7	7853	1442.1	bd
4	123678-HxCDD	8.90e5	6.96e5	1.59e6	35.66	1.00	1.28	NO	212.623	0.976	0.336	1.52e7	6338	2400.1	1.22e7	7853	1557.8	dd
5	123789-HxCDD	8.26e5	6.08e5	1.43e6	35.87	1.01	1.36	NO	211.042	0.882	0.368	1.26e7	6338	1986.1	9.76e6	7853	1242.7	dd
6	1234678-HpCDD	5.98e5	5.76e5	1.17e6	38.58	1.00	1.04	NO	212.293	1.046	0.450	8.24e6	5460	1508.5	7.69e6	5624	1366.9	bb
7	OCDD	9.86e5	1.10e6	2.09e6	42.24	1.00	0.90	NO	429.035	1.052	0.720	9.83e6	5471	1795.8	1.10e7	6088	1811.7	bd
8	2378-TCDF	2.42e5	3.18e5	5.60e5	28.47	1.00	0.76	NO	39.383	0.924	0.0920	2.58e6	2653	971.4	3.37e6	1950	1726.2	bb
9	12378-PeCDF	1.31e6	8.72e5	2.18e6	32.44	1.00	1.50	NO	206.785	0.918	0.116	2.98e7	5344	5579.3	1.95e7	3947	4931.9	dd
10	23478-PeCDF	1.36e6	8.98e5	2.26e6	33.03	1.02	1.52	NO	211.287	0.950	0.114	3.00e7	5344	5605.0	1.96e7	3947	4956.9	bb
11	123478-HxCDF	1.02e6	8.44e5	1.87e6	34.93	1.00	1.21	NO	204.864	0.866	0.340	2.12e7	9236	2291.0	1.73e7	8653	2004.5	bd
12	123678-HxCDF	1.33e6	1.06e6	2.39e6	35.02	1.00	1.25	NO	211.452	1.108	0.274	2.36e7	9236	2555.1	1.87e7	8653	2161.2	db
13	234678-HxCDF	1.16e6	9.40e5	2.10e6	35.47	1.01	1.23	NO	206.920	0.974	0.305	2.10e7	9236	2271.4	1.73e7	8653	1998.0	bb
14	123789-HxCDF	9.96e5	8.03e5	1.80e6	36.15	1.03	1.24	NO	218.663	0.834	0.376	1.59e7	9236	1717.8	1.25e7	8653	1441.9	bd
15	1234678-HpCDF	9.53e5	9.60e5	1.91e6	37.46	1.00	0.99	NO	213.210	1.345	0.378	1.50e7	9236	1619.0	1.50e7	8087	1854.1	bb
16	1234789-HpCDF	7.47e5	7.41e5	1.49e6	39.15	1.05	1.01	NO	217.960	1.046	0.496	9.46e6	9236	1024.8	9.47e6	8087	1170.6	bd
17	OCDF	1.25e6	1.40e6	2.66e6	42.50	1.01	0.90	NO	447.753	1.340	0.697	1.30e7	7163	1809.8	1.39e7	6488	2139.5	bd
18	13C-2378-TCDD	4.02e5	5.08e5	9.10e5	29.38	1.03	0.79	NO	94.050	1.042	0.135	4.12e6	2607	1579.1	5.19e6	2075	2499.5	bb
19	13C-12378-PeCDD	4.37e5	2.76e5	7.13e5	33.20	1.16	1.59	NO	97.977	0.816	0.155	9.43e6	2466	3825.0	5.77e6	1581	3647.1	bb
20	13C-123678-HxCDD	4.54e5	3.59e5	8.12e5	35.65	0.99	1.26	NO	100.049	1.095	0.229	7.72e6	3958	1950.0	6.23e6	5690	1095.1	dd
21	13C-1234678-HpCDD	2.86e5	2.74e5	5.61e5	38.56	1.08	1.04	NO	100.257	0.756	0.264	3.83e6	4336	882.1	3.65e6	3351	1090.3	bd
22	13C-OCDD	4.71e5	5.20e5	9.91e5	42.23	1.18	0.90	NO	203.207	0.668	0.303	4.66e6	3949	1180.3	5.14e6	3721	1380.6	bd
23	13C-2378-TCDF	6.66e5	8.49e5	1.51e6	28.43	0.99	0.79	NO	100.536	1.734	0.0667	7.03e6	1745	4031.9	8.78e6	1851	4747.1	bb
24	13C-12378-PeCDF	7.24e5	4.65e5	1.19e6	32.43	1.13	1.56	NO	96.217	1.361	0.259	1.65e7	6255	2638.9	1.03e7	5205	1971.7	bb
25	13C-123678-HxCDF	3.78e5	7.00e5	1.08e6	35.01	0.98	0.54	NO	98.596	1.453	0.271	6.54e6	6431	1017.5	1.25e7	8986	1395.0	dd
26	13C-1234678-HpCDF	2.23e5	4.89e5	7.11e5	37.45	1.04	0.46	NO	99.606	0.958	0.281	3.41e6	5192	657.1	7.59e6	5244	1448.0	bd
27	13C-1234-TCDD	3.87e5	4.87e5	8.74e5	28.66	0.00	0.80	NO	100.000	1.000	0.150	4.16e6	2607	1593.8	5.24e6	2075	2524.9	bb
28	13C-123789-HxCDD	4.14e5	3.28e5	7.42e5	35.86	0.00	1.26	NO	100.000	1.000	0.250	6.46e6	3958	1632.1	4.98e6	5690	875.4	dd
29	37Cl-2378-TCDD (SS)	4.07e5		4.07e5	29.39	1.00			43.733	1.117	0.0596	4.09e6	1893	2160.0				bb
30	13C-23478-PeCDF (SS)	7.25e5	4.54e5	1.18e6	33.02	1.02	1.60	NO	104.628	0.991	0.134	1.67e7	6255	2664.7	1.02e7	5205	1968.7	bb
31	13C-123478-HxCDF (SS)	2.80e5	5.39e5	8.19e5	34.92	1.00	0.52	NO	99.133	0.760	0.323	5.75e6	6431	894.7	1.14e7	8986	1266.1	bd
32	13C-123478-HxCDD (SS)	3.51e5	2.77e5	6.27e5	35.58	1.00	1.27	NO	98.864	0.772	0.268	6.93e6	3958	1750.4	5.42e6	5690	953.3	bd
33	13C-1234789-HpCDF (SS)	1.69e5	3.92e5	5.60e5	39.13	1.04	0.43	NO	101.175	0.788	0.369	2.35e6	5192	451.8	5.15e6	5244	981.6	bb

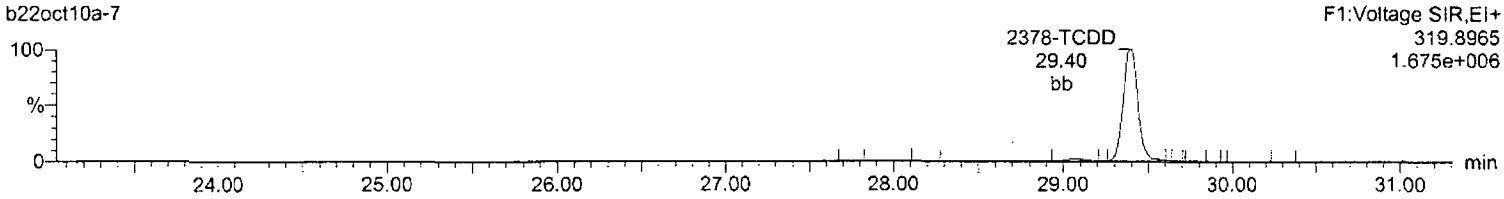
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

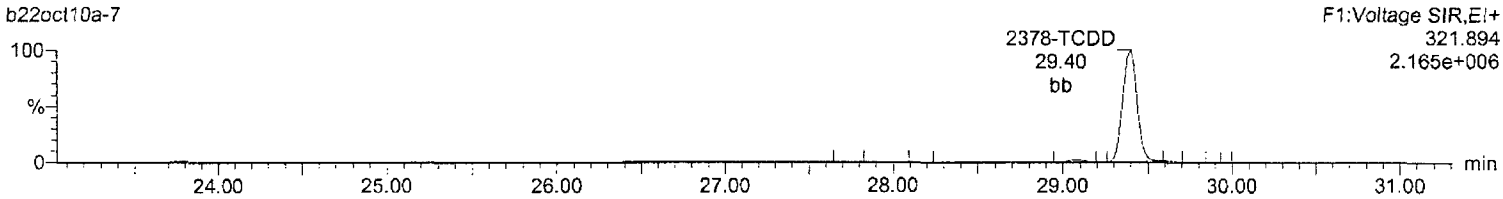
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

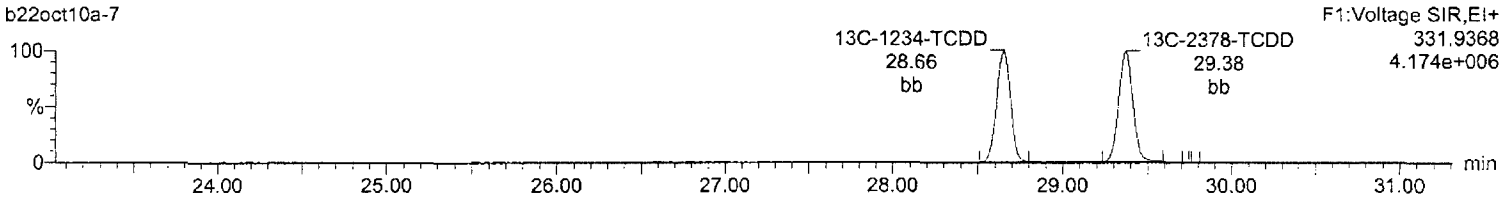
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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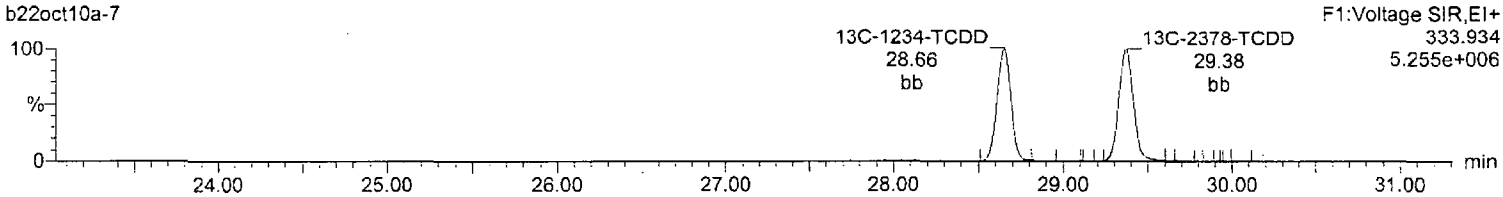
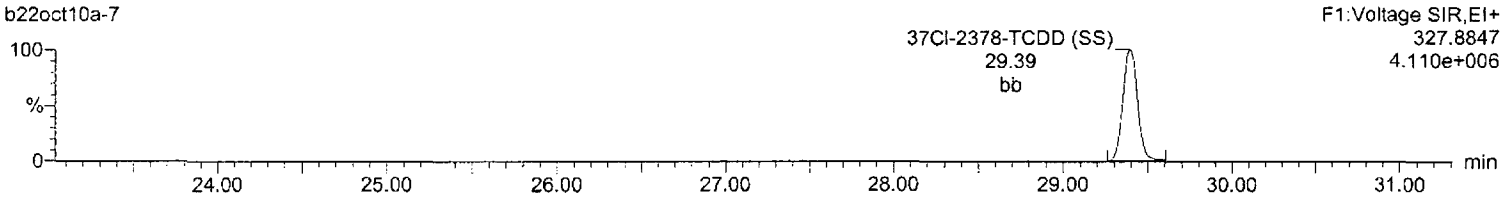
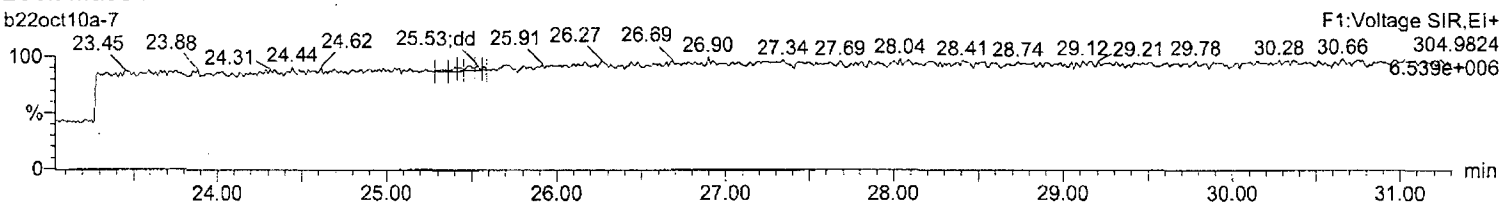


37Cl-2378-TCDD (SS)



Lock Mass F1



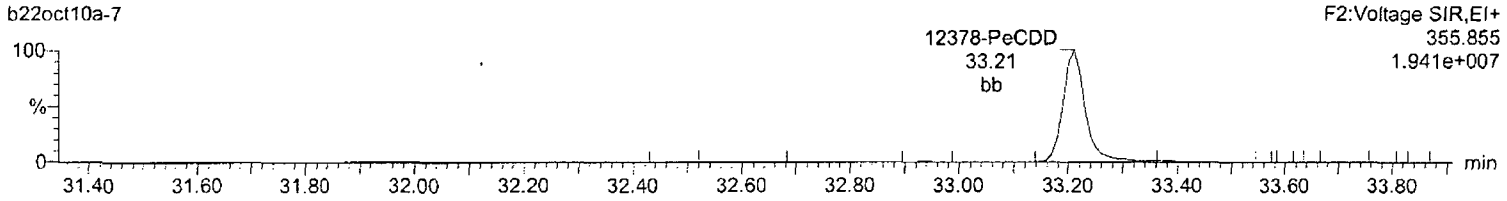
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

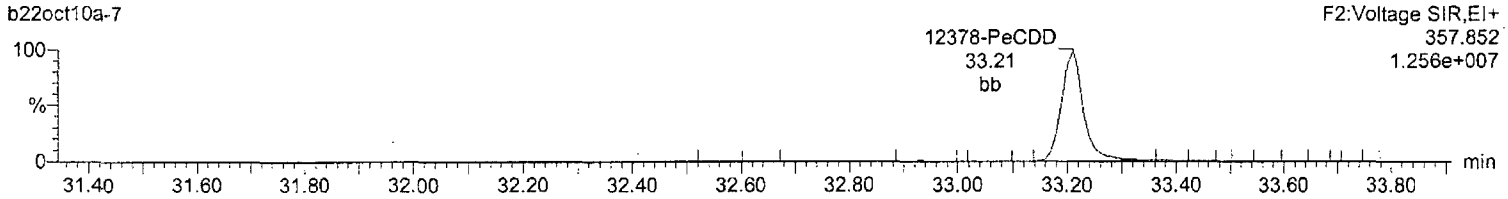
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

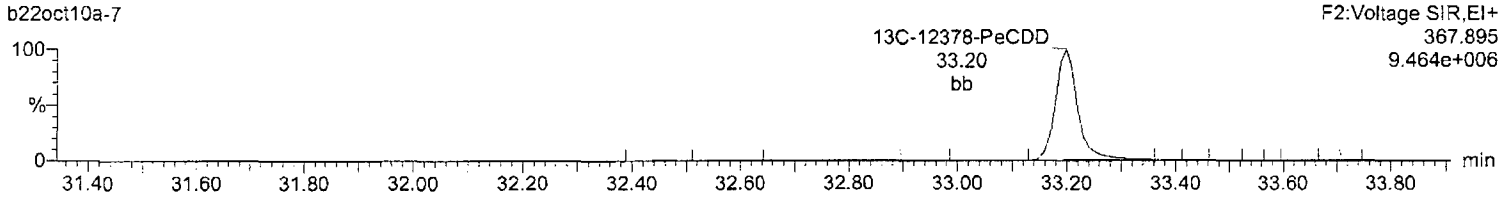
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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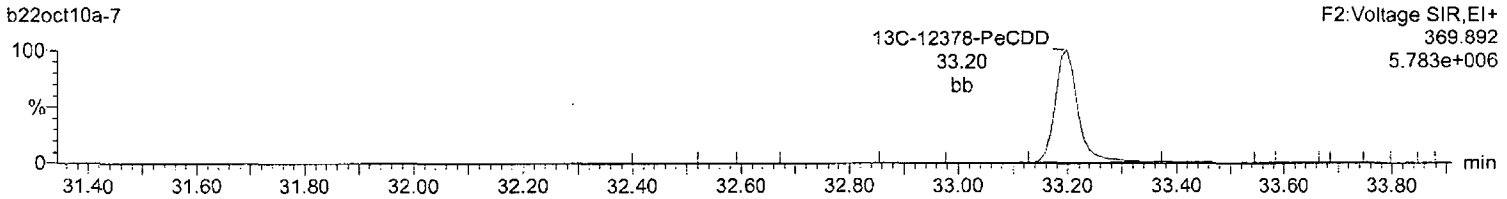
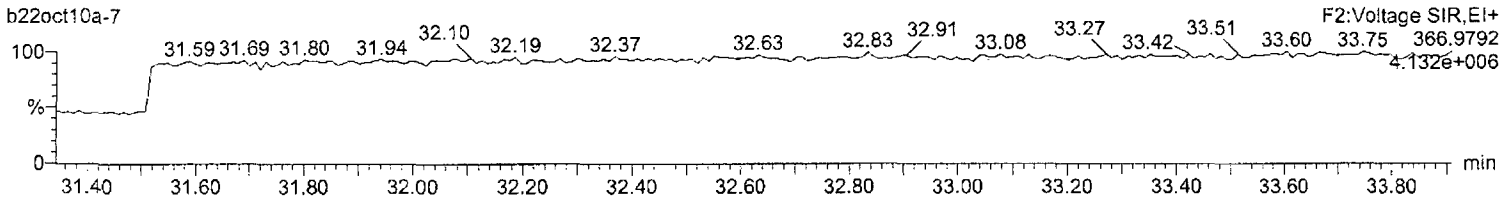


Lock Mass F2



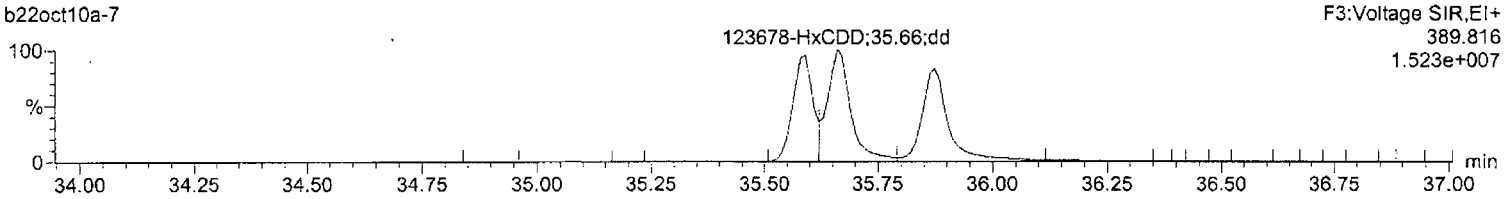
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

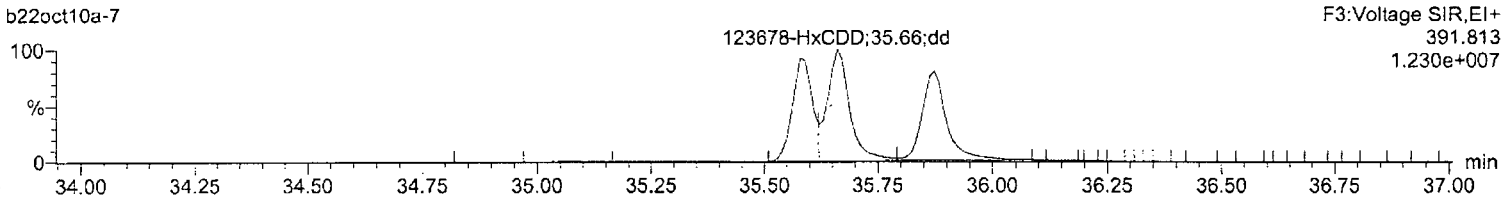
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

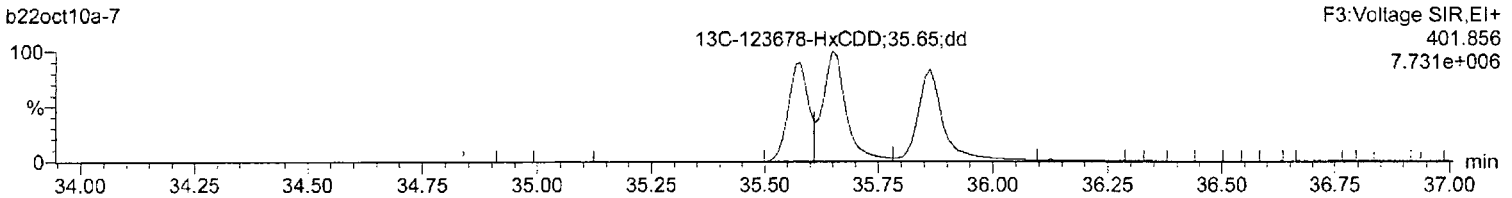
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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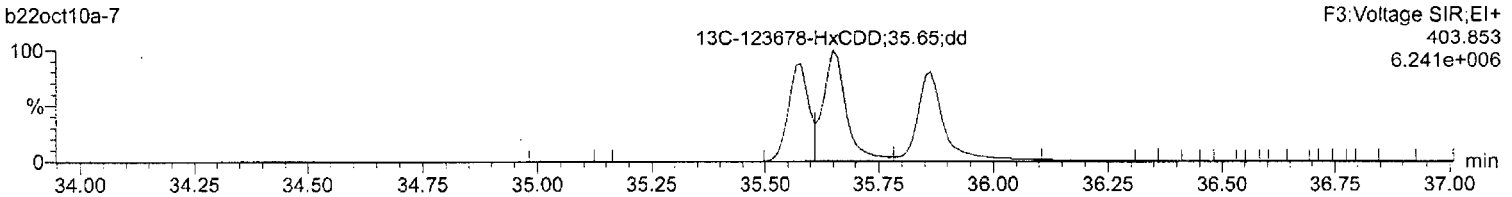
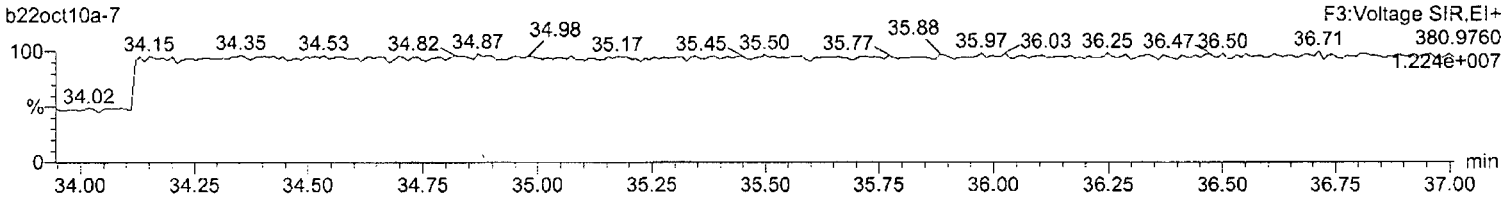


Lock Mass F3



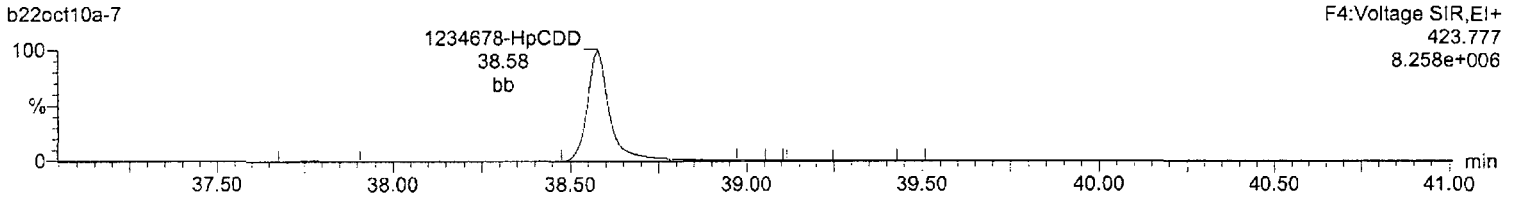
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

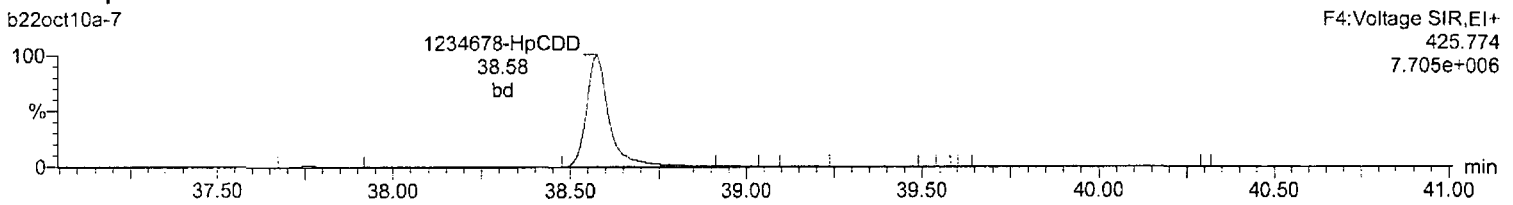
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

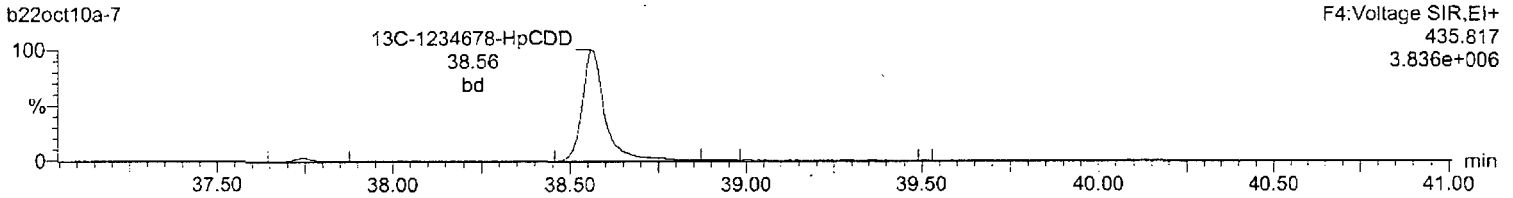
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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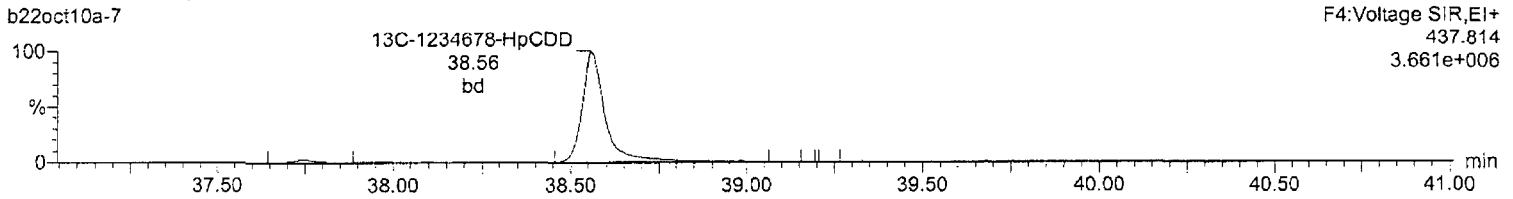
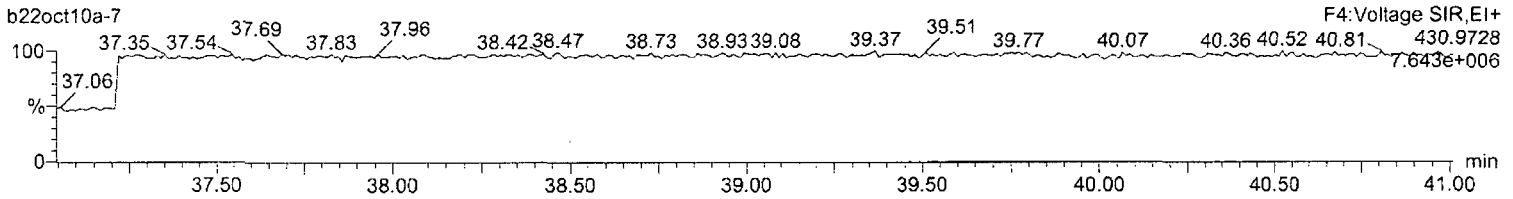


Lock Mass F4



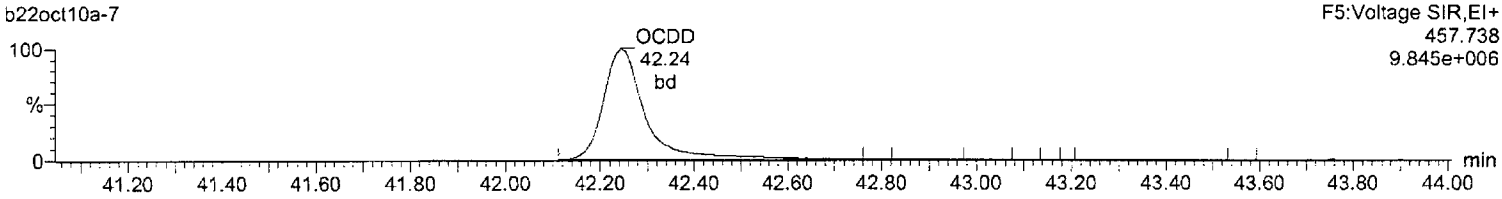
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

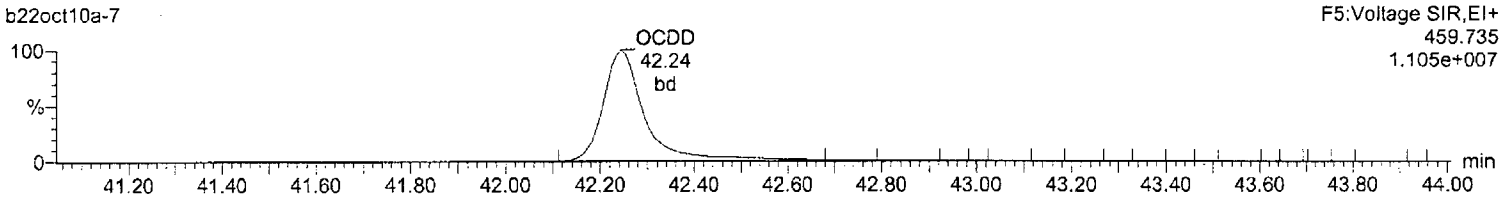
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

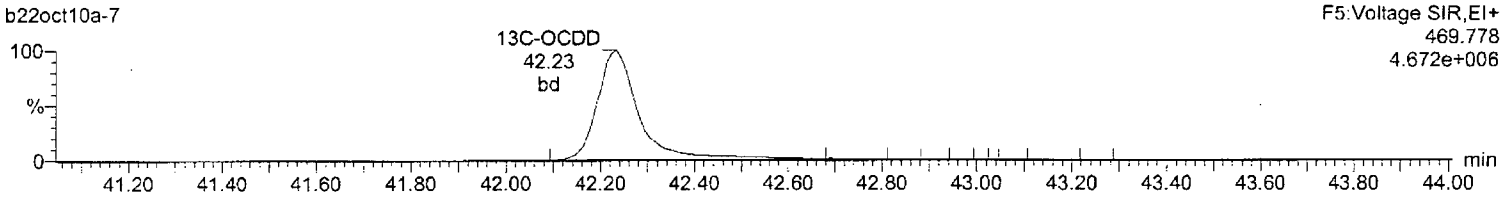
OCDD



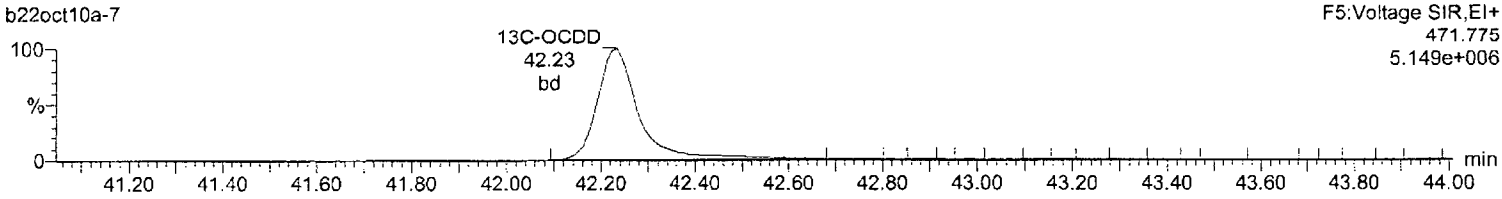
OCDD



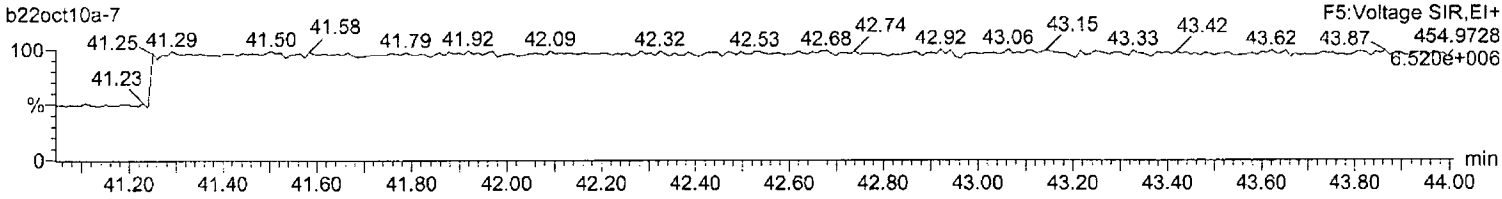
13C-OCDD



13C-OCDD



Lock Mass F5



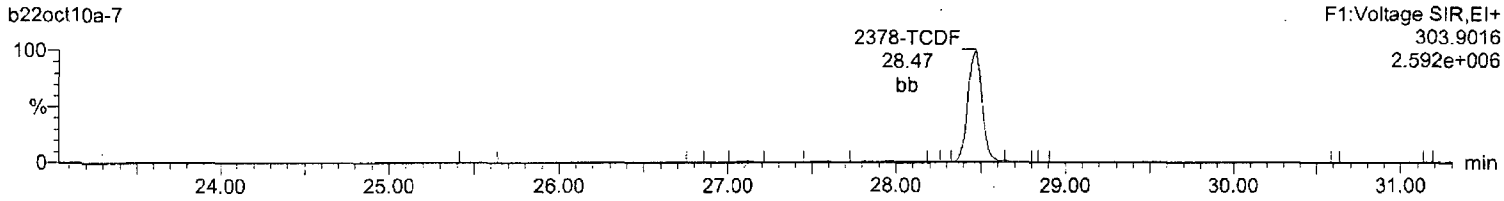
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

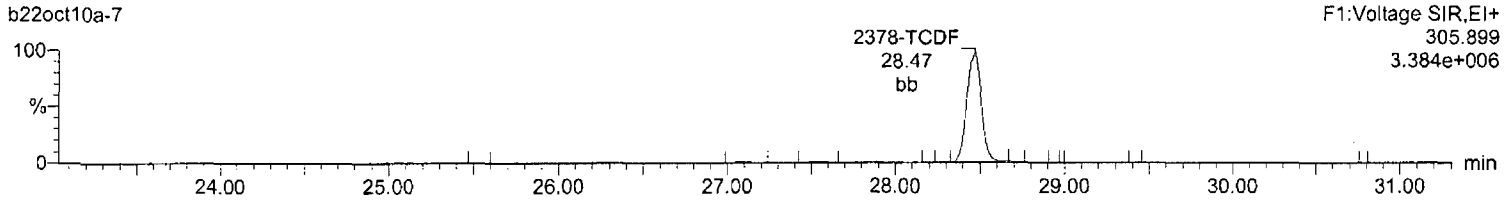
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

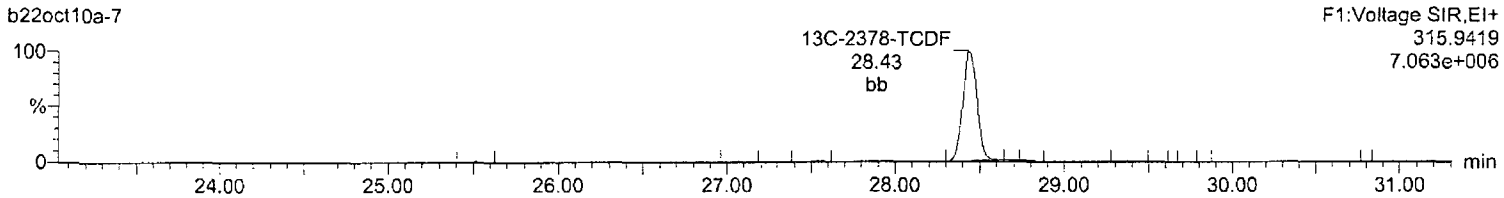
Total-tetrafurans



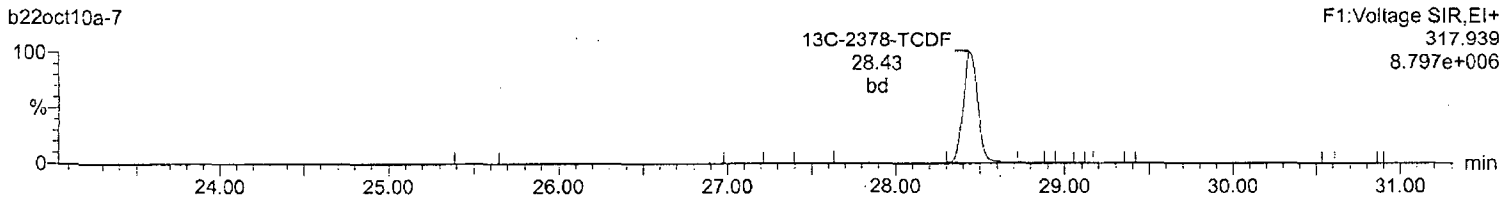
Total-tetrafurans



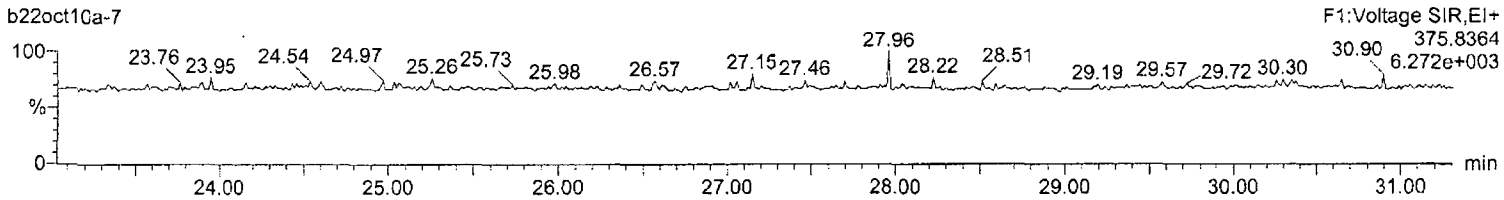
13C-2378-TCDF



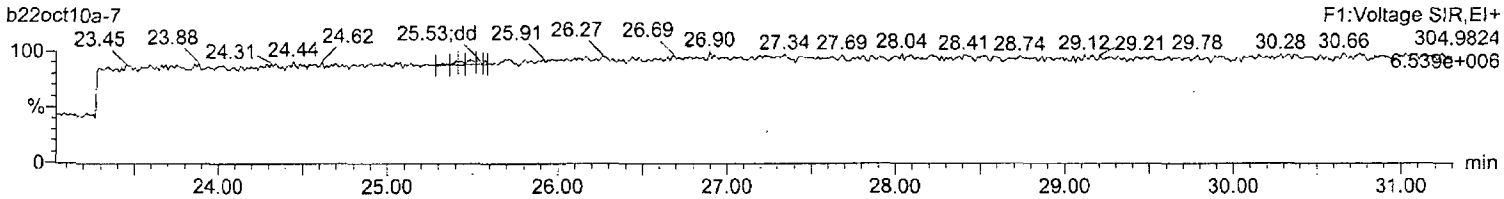
13C-2378-TCDF



HxDPE



Lock Mass F1



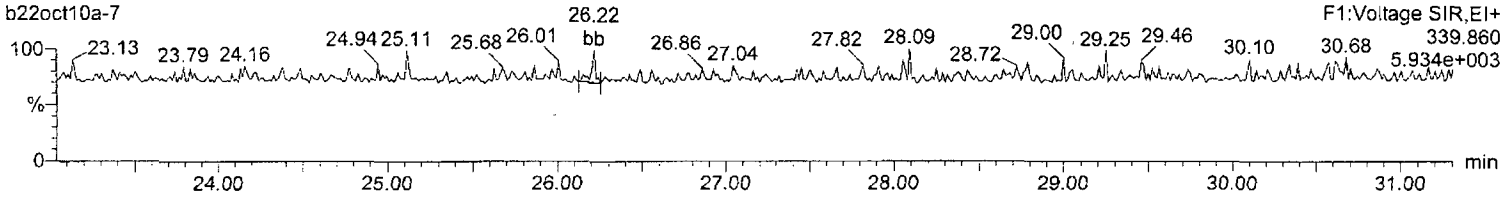
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

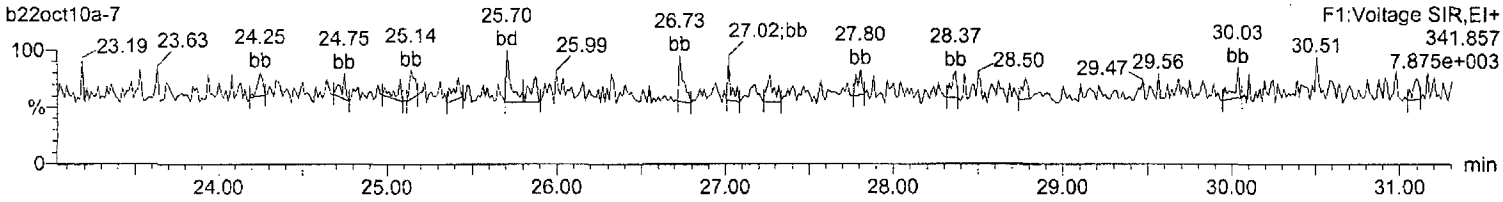
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

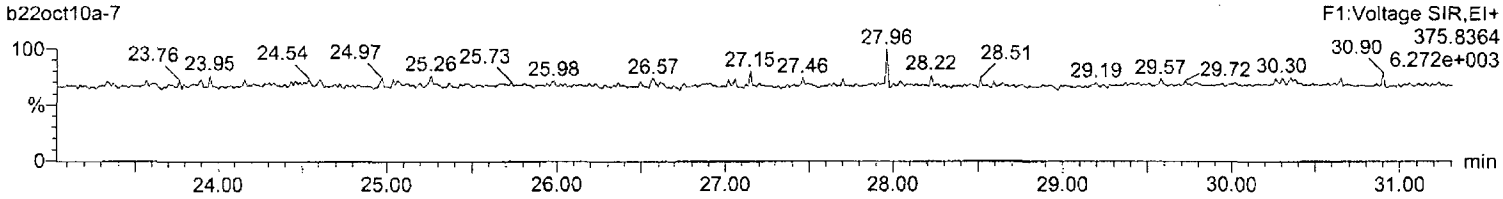
Total-pentafurans (F1)



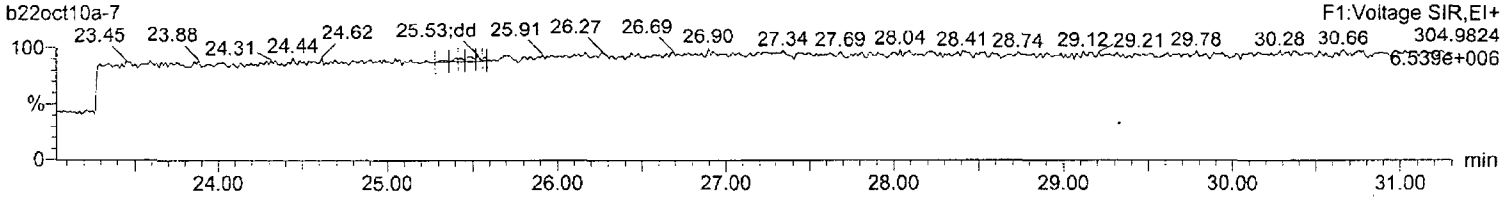
Total-pentafurans (F1)



HxDPE



Lock Mass F1



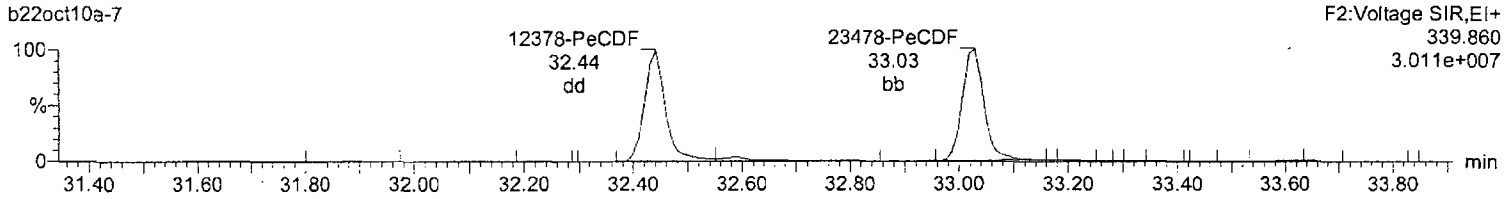
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

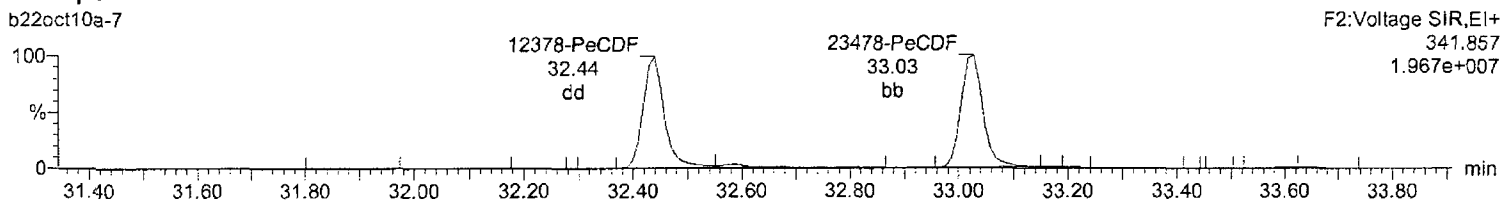
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

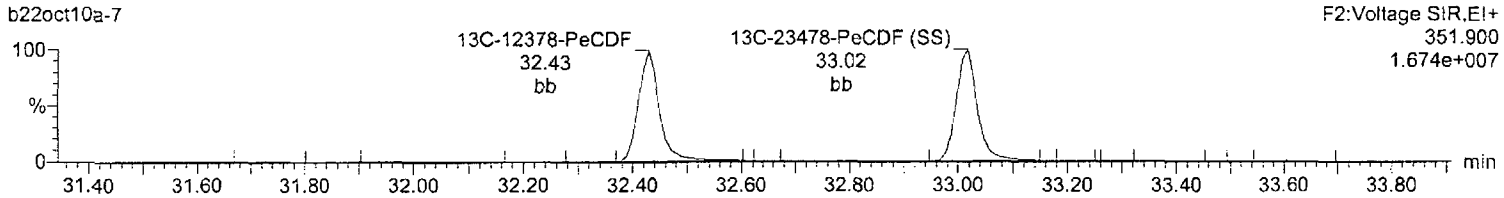
Total-pentafurans



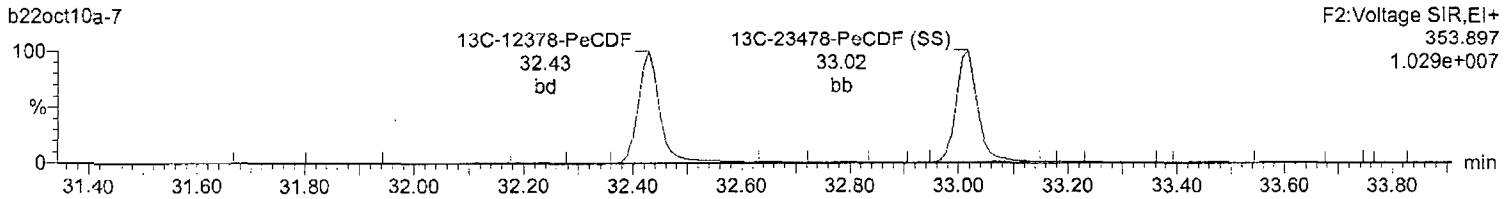
Total-pentafurans



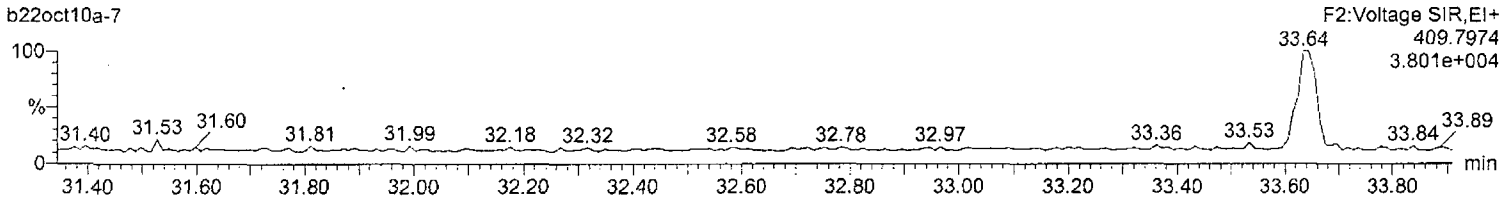
13C-12378-PeCDF



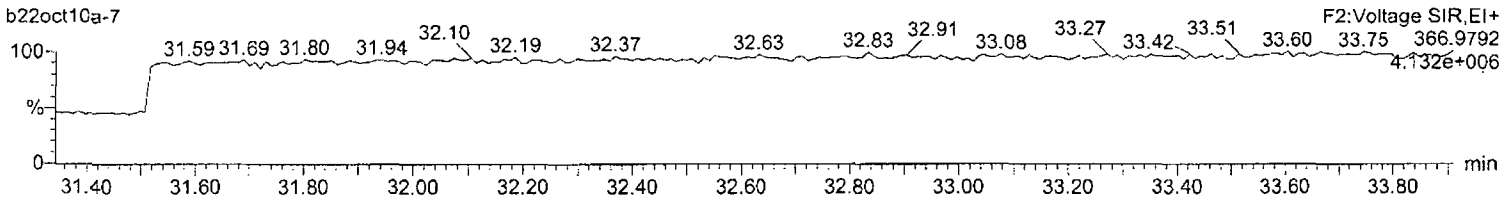
13C-12378-PeCDF



HpDPE



Lock Mass F2



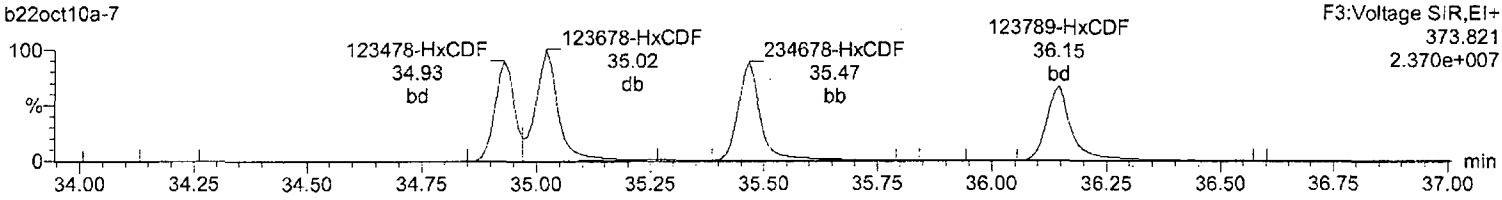
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

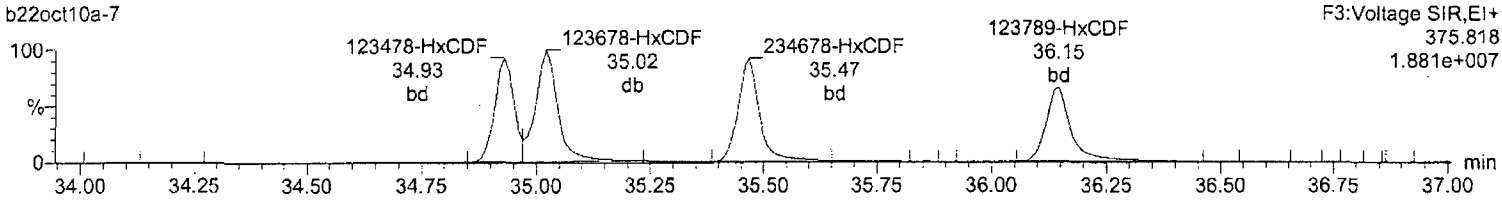
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

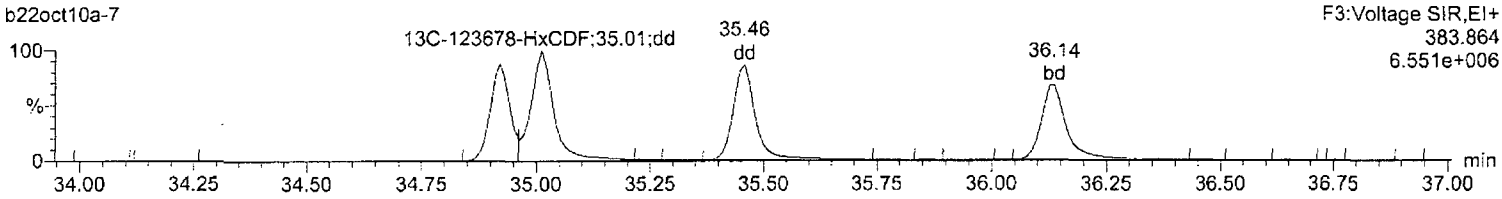
Total-hexafurans



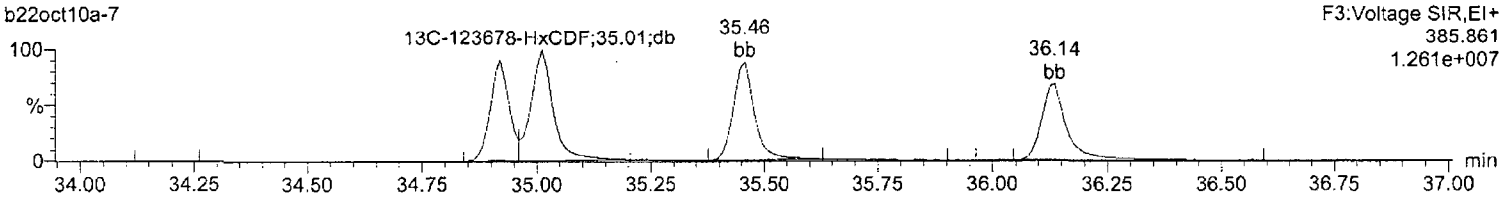
Total-hexafurans



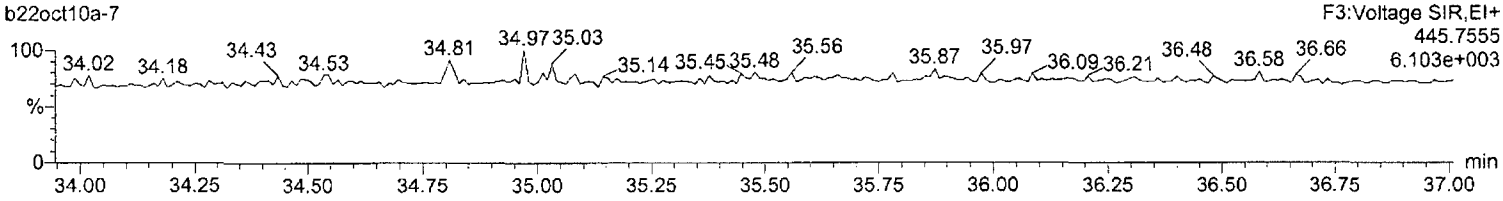
13C-123678-HxCDF



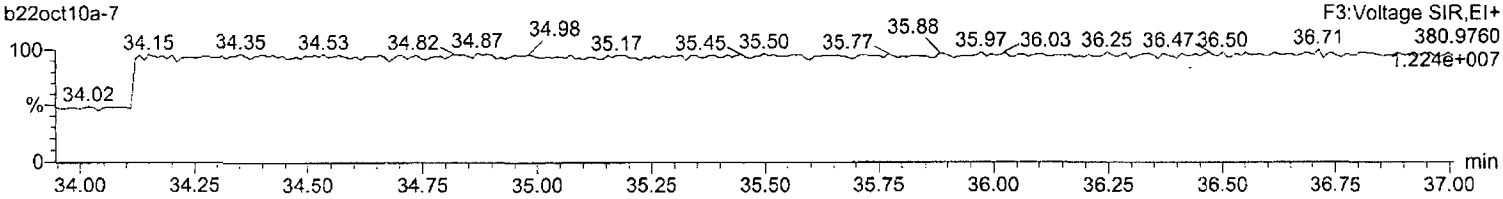
13C-123678-HxCDF



OcDPE



Lock Mass F3



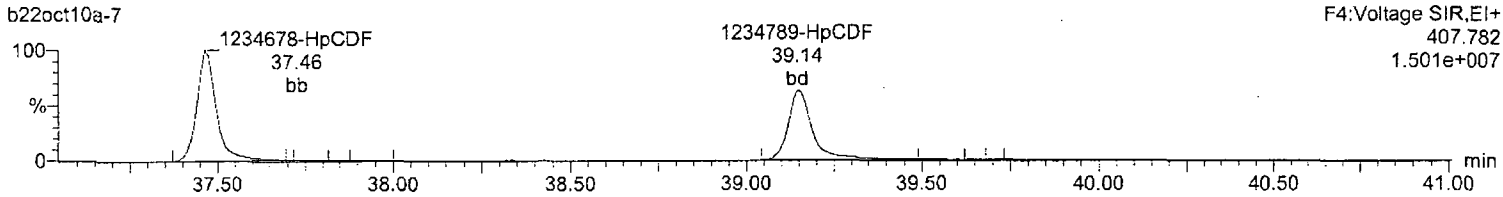
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

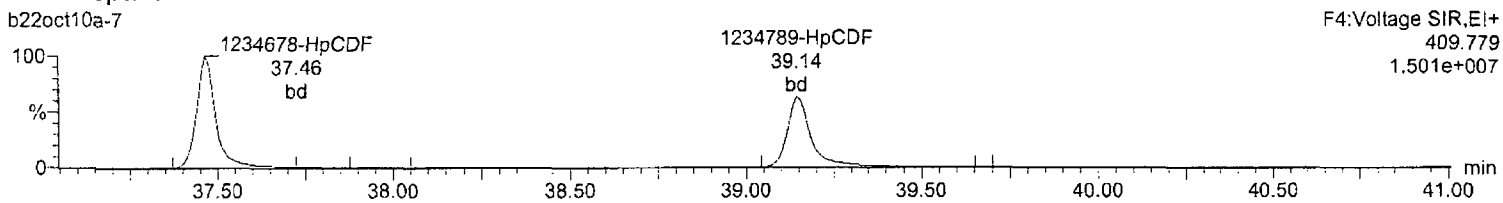
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

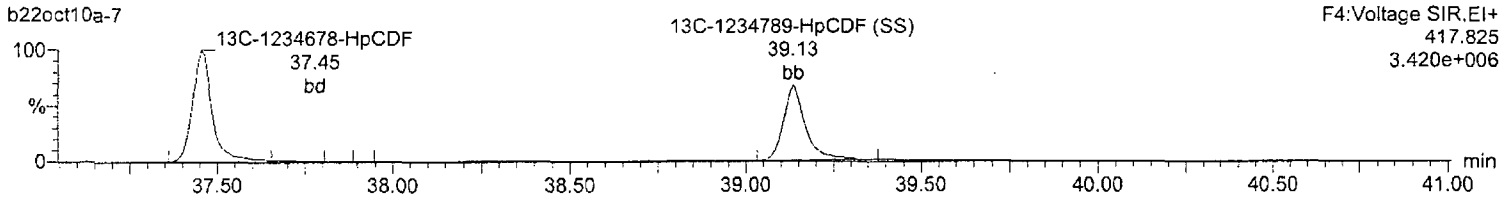
Total-heptafurans



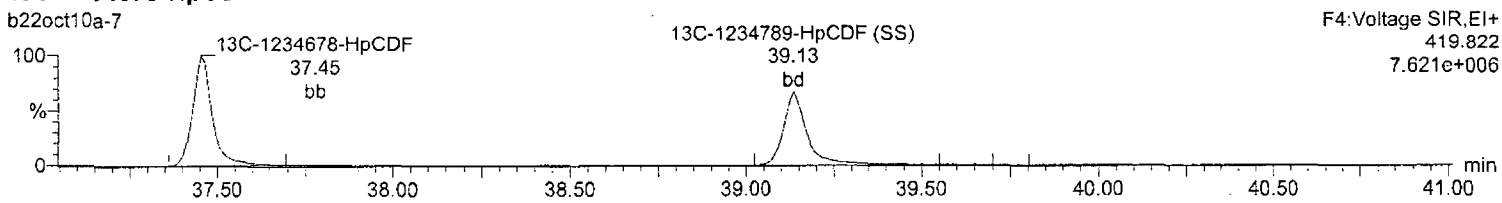
Total-heptafurans



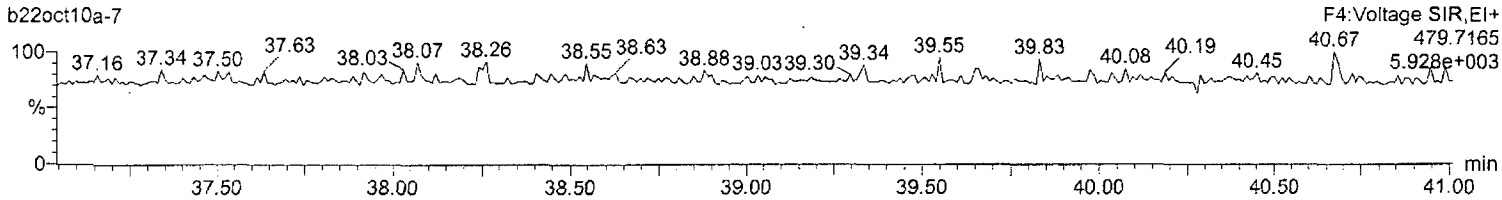
13C-1234678-HpCDF



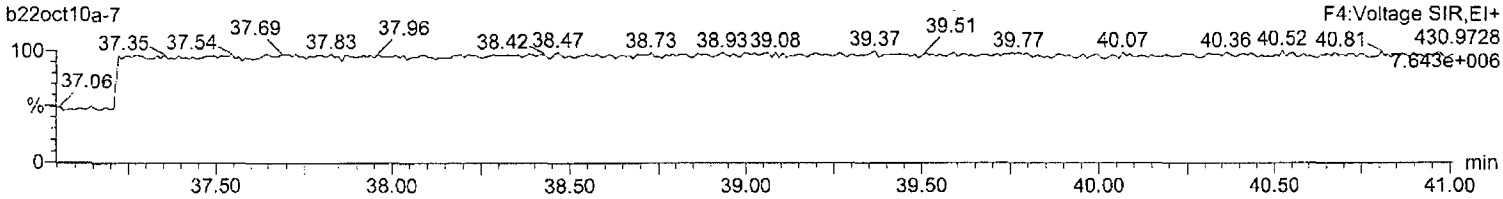
13C-1234678-HpCDF



NoDPE



Lock Mass F4



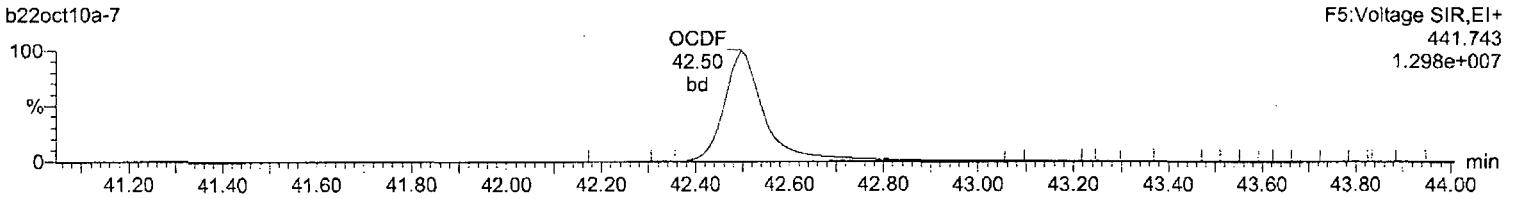
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

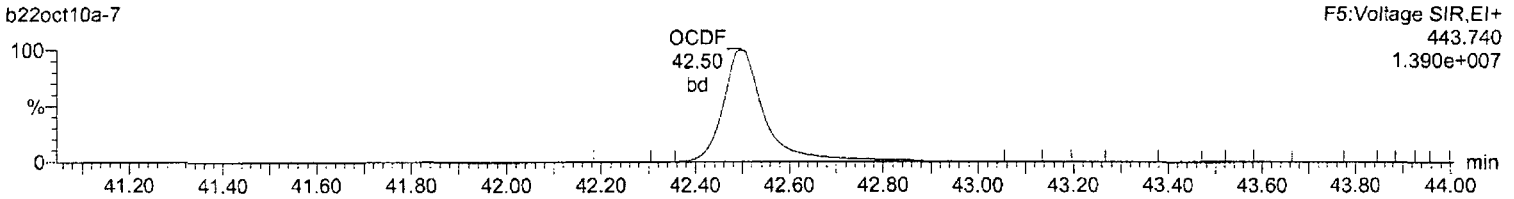
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-7, Date: 22-Oct-2010, Time: 15:22:45, ID: CS4 UD101022-05, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

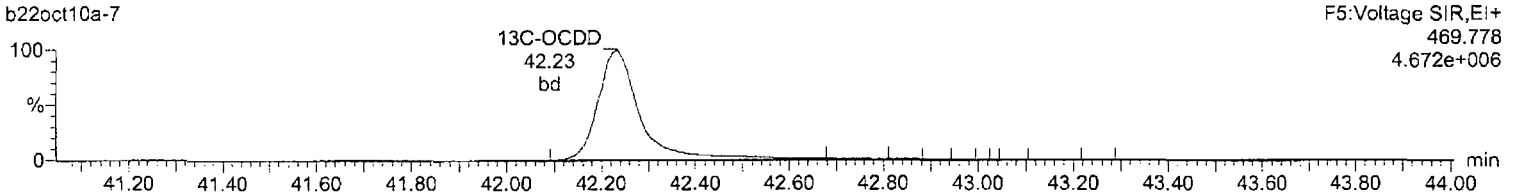
OCDF



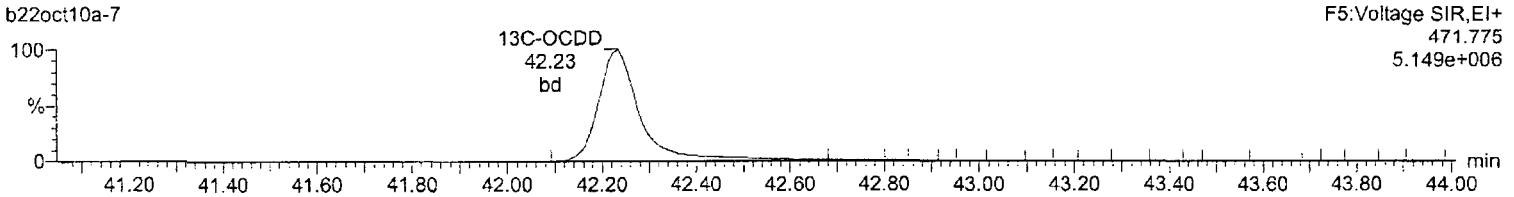
OCDF



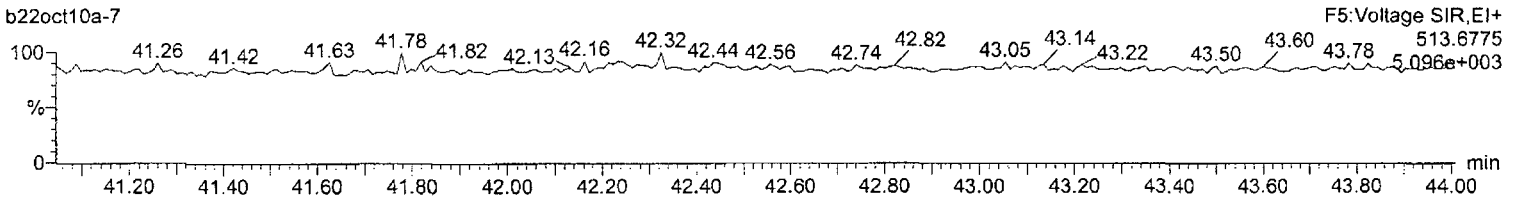
13C-OCDD



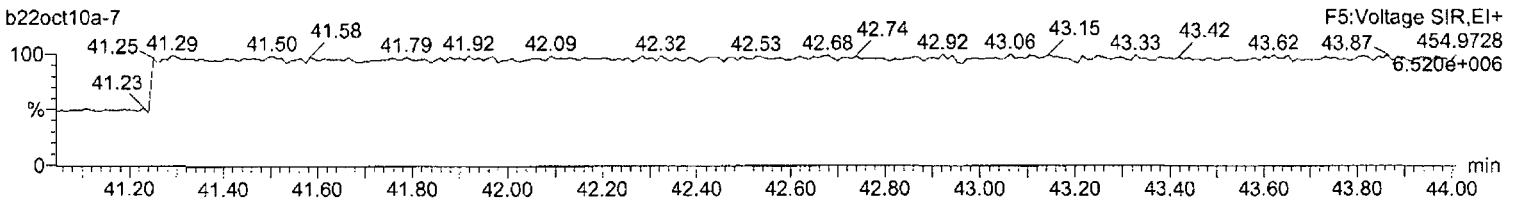
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

Last Altered: Monday, October 25, 2010 09:24:23 Eastern Standard Time
Printed: Monday, October 25, 2010 09:24:49 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.10e6	1.40e6	2.50e6	29.40	1.00	0.78	NO	211.444	0.978	0.0734	1.16e7	1881	6169.4	1.47e7	1167	12580.7	bb
2	12378-PeCDD	6.18e6	3.95e6	1.01e7	33.21	1.00	1.57	NO	1047.061	1.038	0.120	1.35e8	3666	36775.2	8.76e7	4846	18077.5	bb
3	123478-HxCDD	5.40e6	4.31e6	9.71e6	35.59	1.00	1.25	NO	1059.029	0.829	0.356	1.04e8	8365	12396.6	8.24e7	9806	8405.4	bd
4	123678-HxCDD	5.98e6	4.61e6	1.06e7	35.67	1.00	1.30	NO	985.730	0.905	0.304	1.07e8	8365	12759.2	8.44e7	9806	8605.1	dd
5	123789-HxCDD	5.67e6	4.26e6	9.93e6	35.87	1.01	1.33	NO	1015.618	0.849	0.333	9.29e7	8365	11107.6	7.34e7	9806	7488.4	dd
6	1234678-HpCDD	4.20e6	4.07e6	8.27e6	38.58	1.00	1.03	NO	1088.662	1.073	0.626	5.97e7	10767	5542.2	5.78e7	11323	5108.6	bb
7	OCDD	7.49e6	7.94e6	1.54e7	42.24	1.00	0.94	NO	2167.299	1.063	0.721	7.58e7	9747	7771.6	8.66e7	8489	10202.2	bd
8	2378-TCDF	1.68e6	2.17e6	3.86e6	28.47	1.00	0.77	NO	212.779	0.999	0.0879	1.87e7	2219	8445.3	2.34e7	3578	6530.7	bb
9	12378-PeCDF	9.35e6	6.22e6	1.56e7	32.44	1.00	1.50	NO	1053.411	0.935	0.244	2.14e8	19948	10707.8	1.44e8	7595	18897.1	bd
10	23478-PeCDF	9.30e6	6.19e6	1.55e7	33.03	1.02	1.50	NO	1034.771	0.930	0.241	2.13e8	19948	10682.7	1.42e8	7595	18760.5	bb
11	123478-HxCDF	7.49e6	6.15e6	1.36e7	34.93	1.00	1.22	NO	1047.756	0.885	0.448	1.57e8	20195	7760.5	1.29e8	15958	8065.9	bd
12	123678-HxCDF	9.05e6	7.32e6	1.64e7	35.02	1.00	1.24	NO	1013.047	1.062	0.361	1.70e8	20195	8440.0	1.37e8	15958	8559.1	db
13	234678-HxCDF	8.20e6	6.67e6	1.49e7	35.47	1.01	1.23	NO	1024.934	0.965	0.402	1.50e8	20195	7439.0	1.21e8	15958	7551.2	bd
14	123789-HxCDF	6.50e6	5.29e6	1.18e7	36.15	1.03	1.23	NO	1002.433	0.765	0.496	1.08e8	20195	5366.0	8.93e7	15958	5595.8	bb
15	1234678-HpCDF	6.73e6	6.68e6	1.34e7	37.46	1.00	1.01	NO	1055.148	1.332	0.503	1.08e8	16195	6680.7	1.08e8	16721	6484.5	bb
16	1234789-HpCDF	5.08e6	5.03e6	1.01e7	39.14	1.05	1.01	NO	1045.546	1.004	0.661	6.75e7	16195	4169.1	6.84e7	16721	4091.1	bb
17	OCDF	9.31e6	1.07e7	2.00e7	42.51	1.01	0.87	NO	2304.662	1.379	0.850	1.00e8	10705	9352.5	1.12e8	15506	7231.3	bb
18	13C-2378-TCDD	5.68e5	7.12e5	1.28e6	29.38	1.03	0.80	NO	106.970	1.185	0.104	5.98e6	2703	2213.4	7.46e6	1917	3890.3	bb
19	13C-12378-PeCDD	6.01e5	3.75e5	9.76e5	33.20	1.16	1.60	NO	108.392	0.903	0.156	1.32e7	4159	3185.6	8.37e6	1065	7859.8	bb
20	13C-123678-HxCDD	6.59e5	5.11e5	1.17e6	35.66	0.99	1.29	NO	107.036	1.171	0.127	1.10e7	4257	2587.5	8.81e6	3267	2697.0	dd
21	13C-1234678-HpCDD	4.05e5	3.66e5	7.70e5	38.57	1.08	1.11	NO	102.258	0.771	0.191	5.64e6	4007	1408.8	5.12e6	3791	1351.7	bd
22	13C-OCDD	6.73e5	7.78e5	1.45e6	42.24	1.18	0.87	NO	220.988	0.726	0.218	7.17e6	3832	1871.8	7.99e6	3943	2026.6	bd
23	13C-2378-TCDF	8.58e5	1.07e6	1.93e6	28.45	0.99	0.80	NO	103.641	1.787	0.0558	9.37e6	1811	5174.2	1.17e7	2046	5714.6	bb
24	13C-12378-PeCDF	1.03e6	6.33e5	1.66e6	32.43	1.13	1.63	NO	108.866	1.540	0.249	2.36e7	6412	3682.2	1.48e7	7727	1920.5	bd
25	13C-123678-HxCDF	5.09e5	1.03e6	1.54e6	35.01	0.98	0.49	NO	104.690	1.543	0.167	9.46e6	6226	1518.9	1.80e7	7146	2521.9	db
26	13C-1234678-HpCDF	3.19e5	6.88e5	1.01e6	37.45	1.04	0.46	NO	104.748	1.008	0.177	4.93e6	4166	1183.9	1.10e7	5069	2160.5	bd
27	13C-1234-TCDD	4.76e5	6.04e5	1.08e6	28.66	0.00	0.79	NO	100.000	1.000	0.115	5.31e6	2703	1963.0	6.51e6	1917	3397.8	bb
28	13C-123789-HxCDD	5.69e5	4.30e5	9.99e5	35.86	0.00	1.32	NO	100.000	1.000	0.139	9.26e6	4257	2174.6	7.24e6	3267	2215.4	dd
29	37Cl-2378-TCDD (SS)	2.66e6		2.66e6	29.40	1.00			203.801	1.041	0.0635	2.81e7	2912	9662.5				bb
30	13C-23478-PeCDF (SS)	9.76e5	6.11e5	1.59e6	33.02	1.02	1.60	NO	100.616	0.953	0.117	2.32e7	6412	3620.1	1.47e7	7727	1903.6	bb
31	13C-123478-HxCDF (SS)	4.08e5	7.54e5	1.16e6	34.92	1.00	0.54	NO	98.326	0.753	0.183	8.26e6	6226	1327.4	1.61e7	7146	2250.0	bd
32	13C-123478-HxCDD (SS)	4.82e5	3.83e5	8.65e5	35.58	1.00	1.26	NO	94.641	0.739	0.148	1.02e7	4257	2391.6	8.07e6	3267	2468.8	bd
33	13C-1234789-HpCDF (SS)	2.36e5	5.37e5	7.73e5	39.13	1.04	0.44	NO	98.607	0.768	0.229	3.22e6	4166	772.8	7.23e6	5069	1426.7	bb

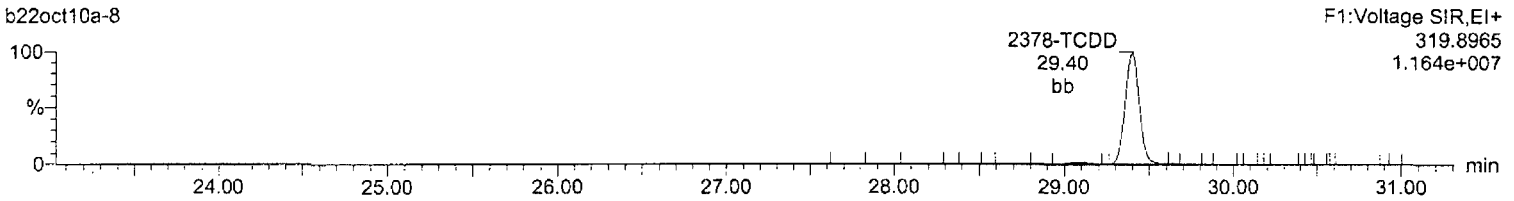
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

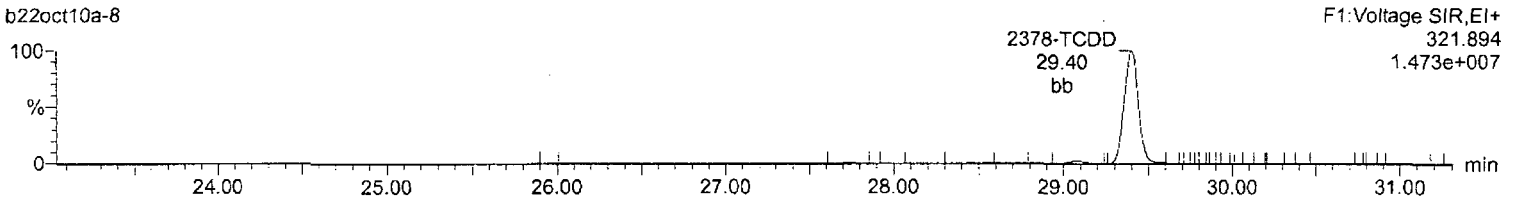
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

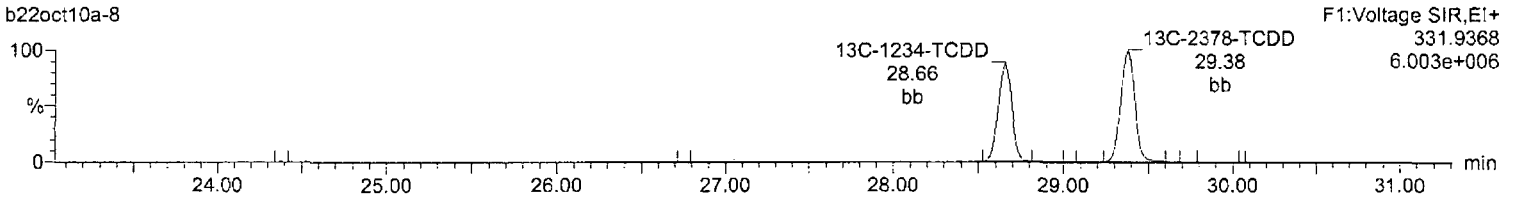
Total-tetradioxins



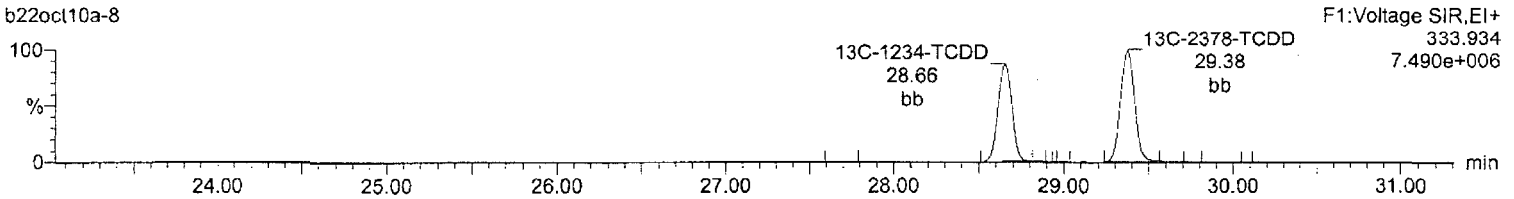
Total-tetradioxins



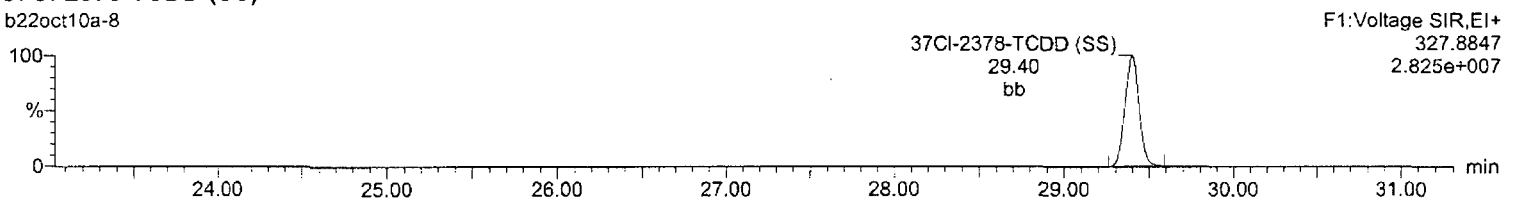
13C-2378-TCDD



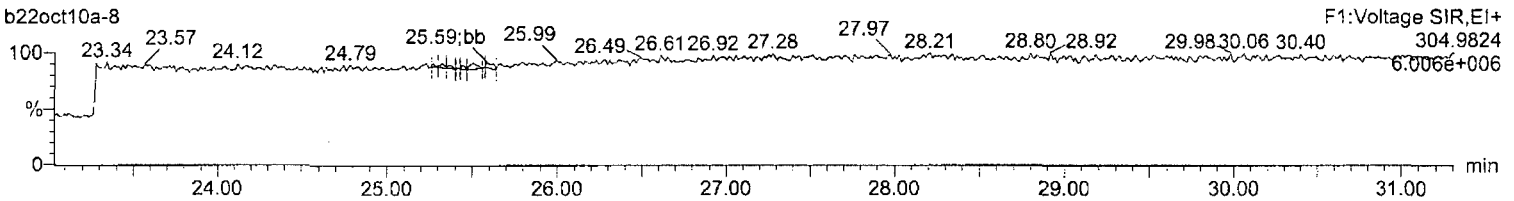
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



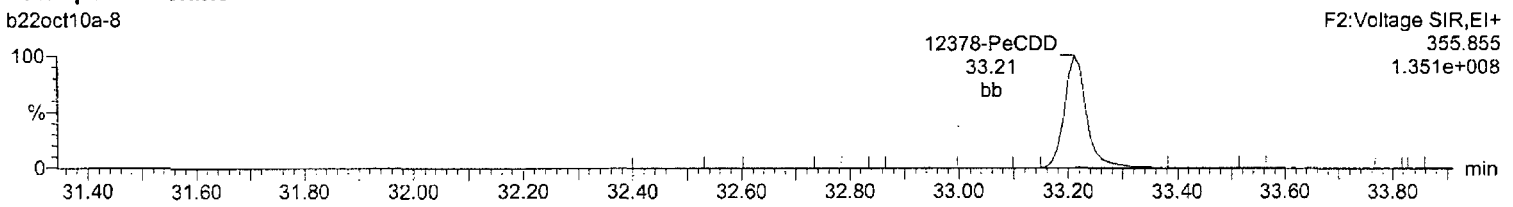
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

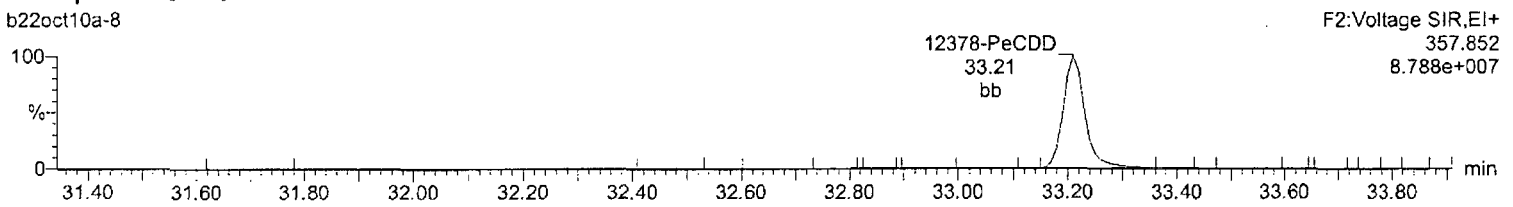
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

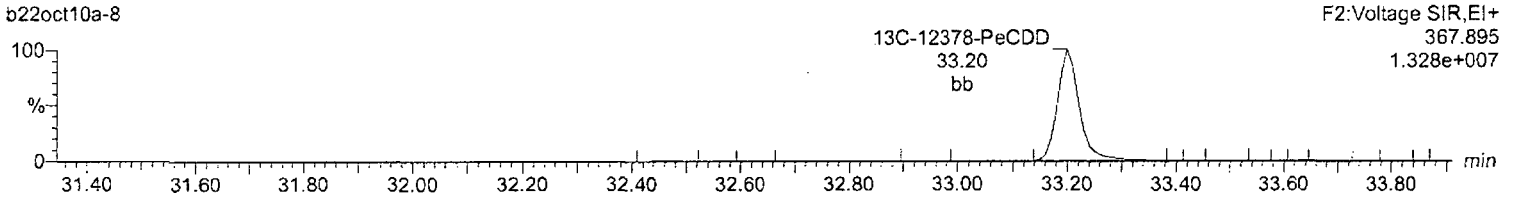
Total-pentadioxins



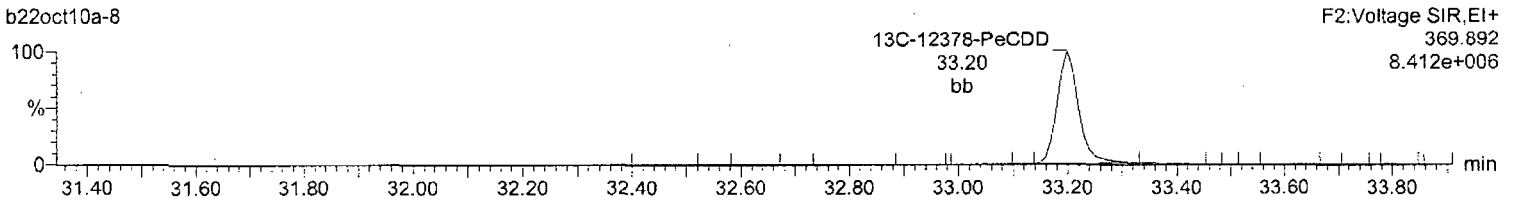
Total-pentadioxins



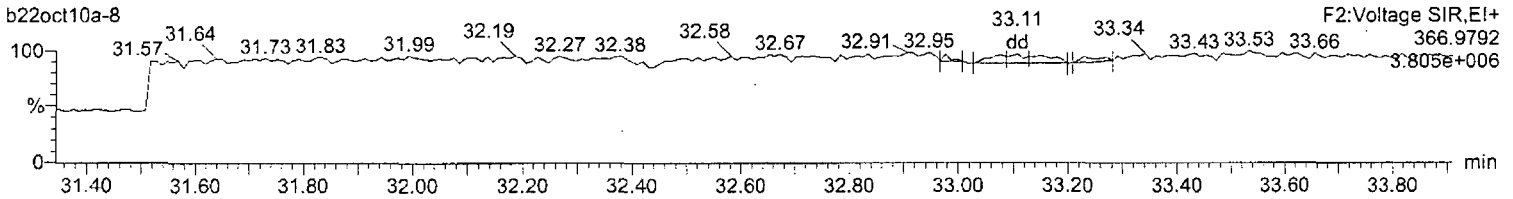
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



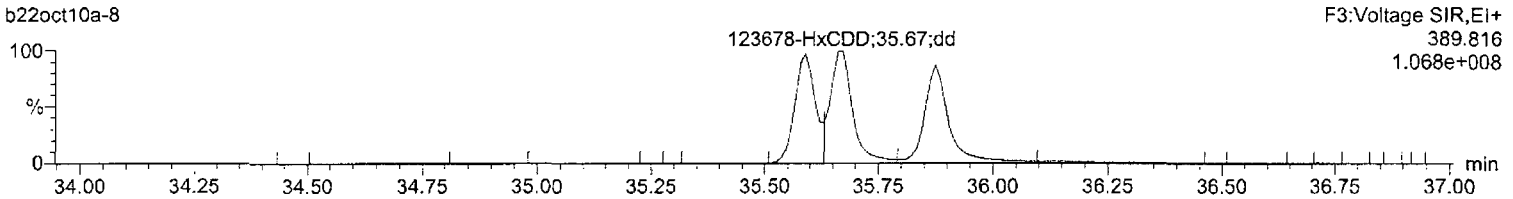
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

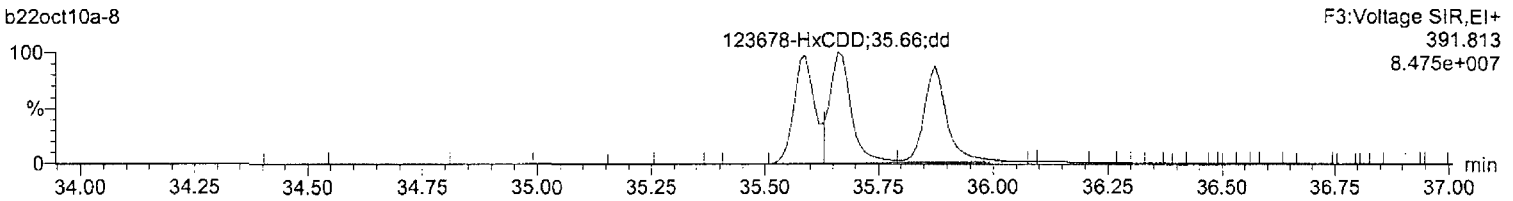
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

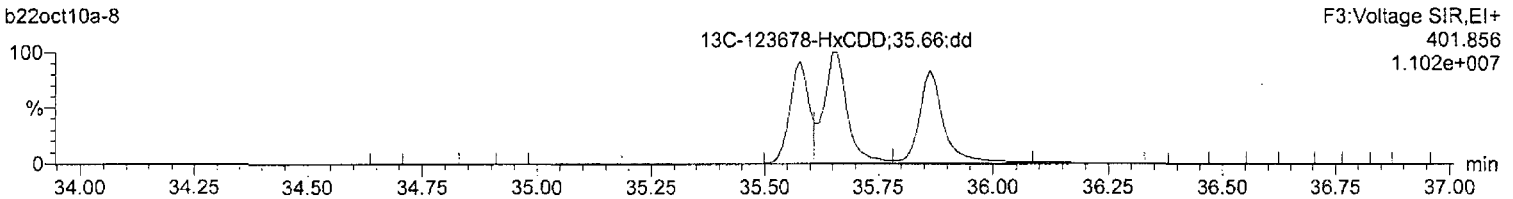
Total-hexadioxins



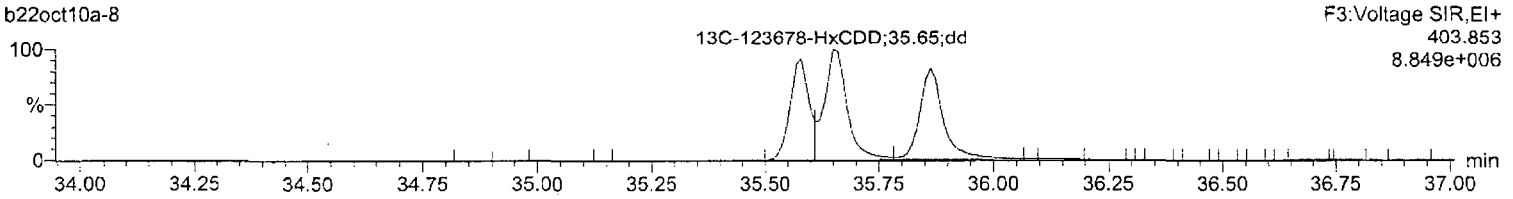
Total-hexadioxins



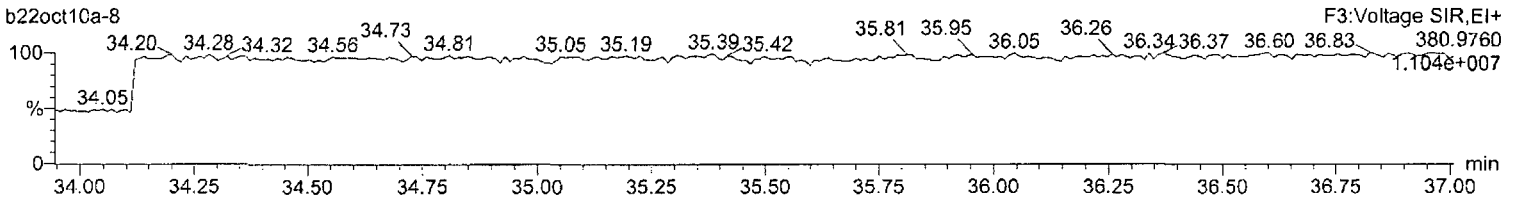
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



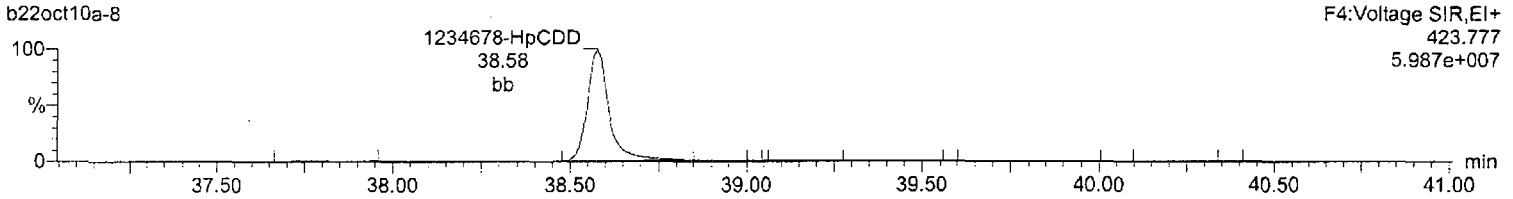
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

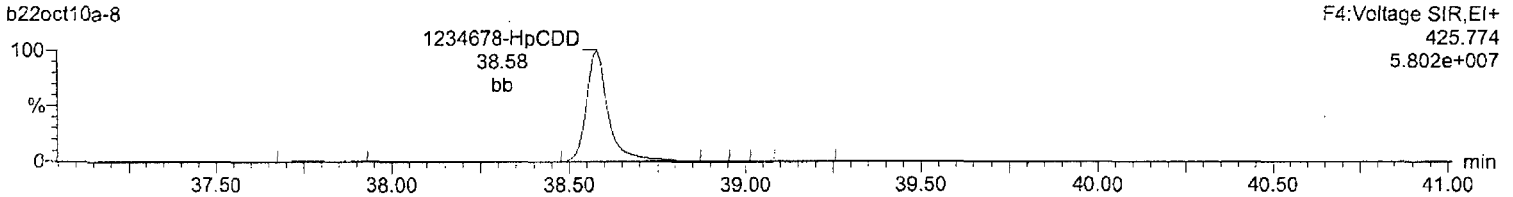
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

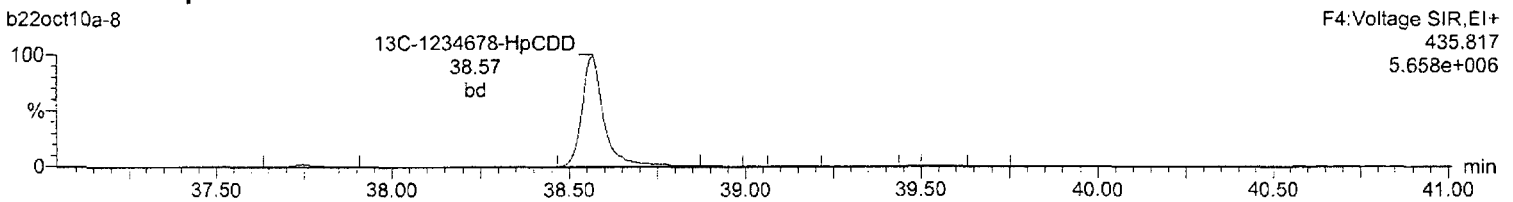
Total-heptadioxins



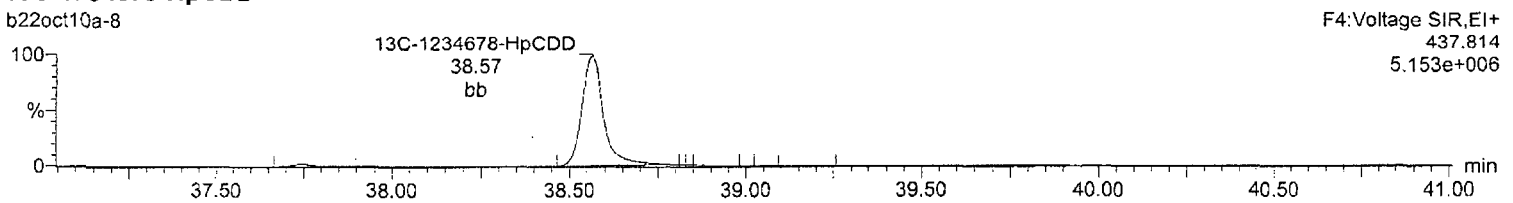
Total-heptadioxins



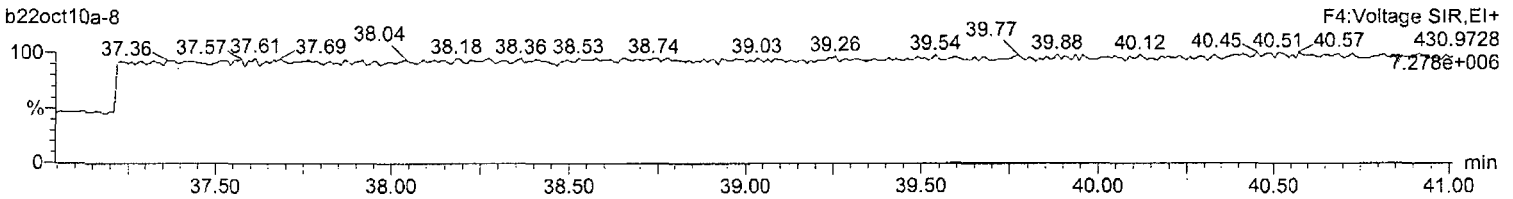
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



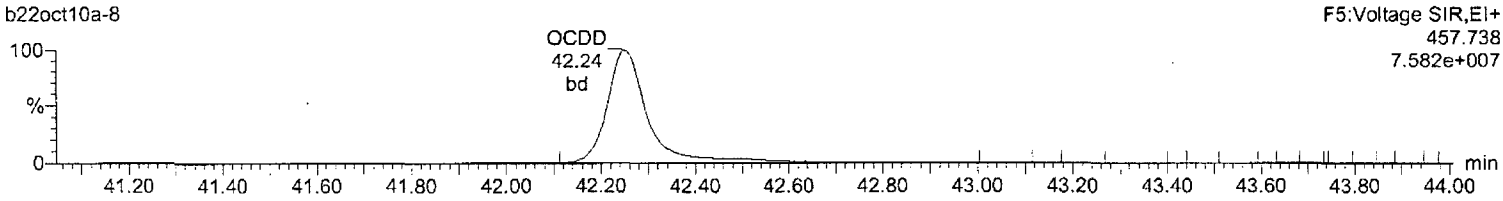
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

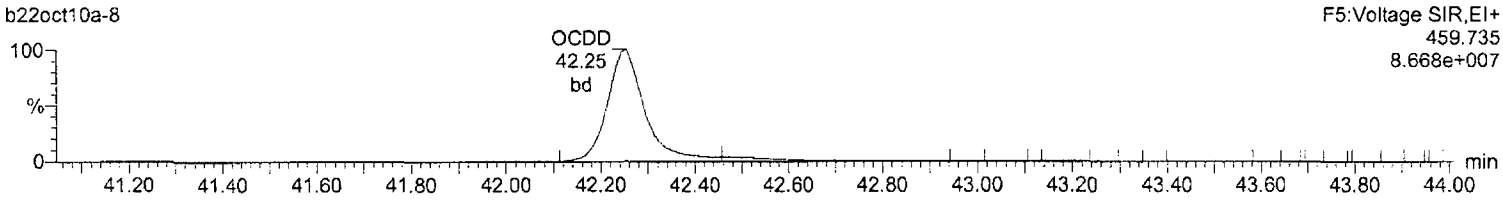
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

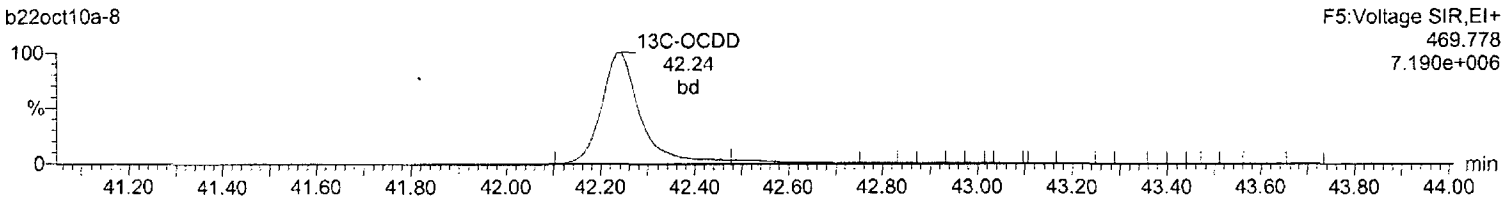
OCDD



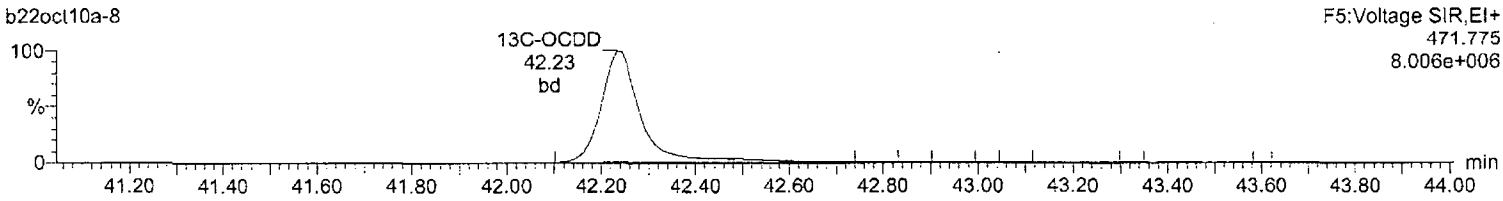
OCDD



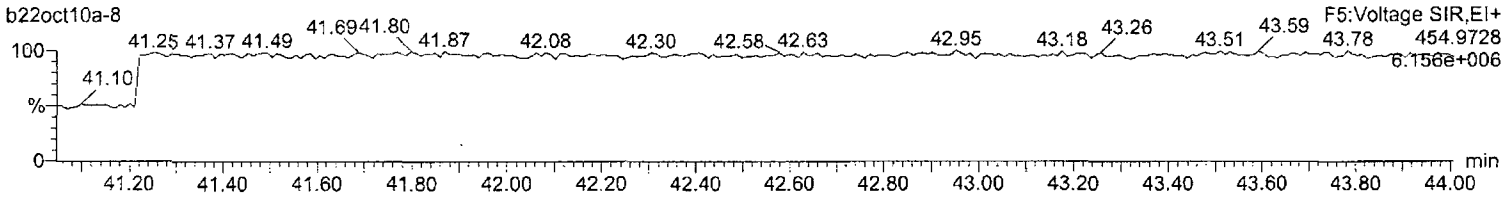
13C-OCDD



13C-OCDD



Lock Mass F5



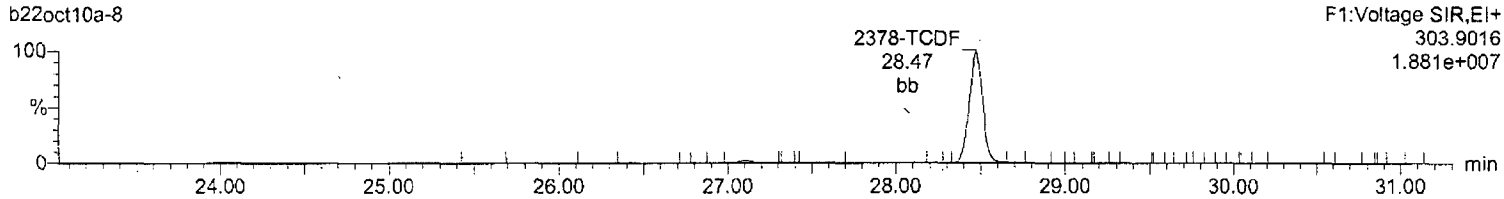
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

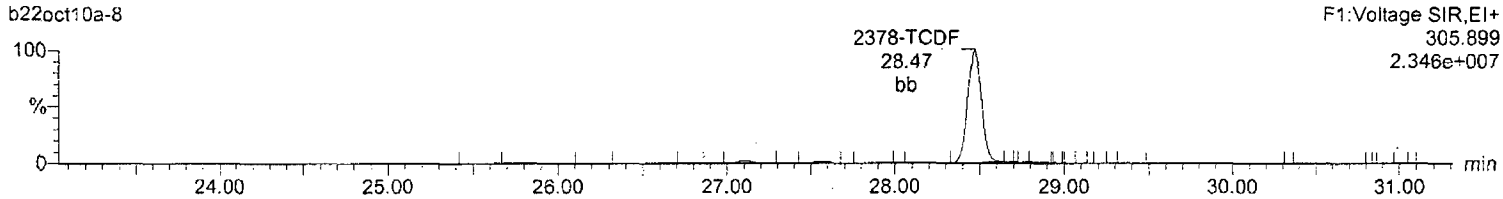
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

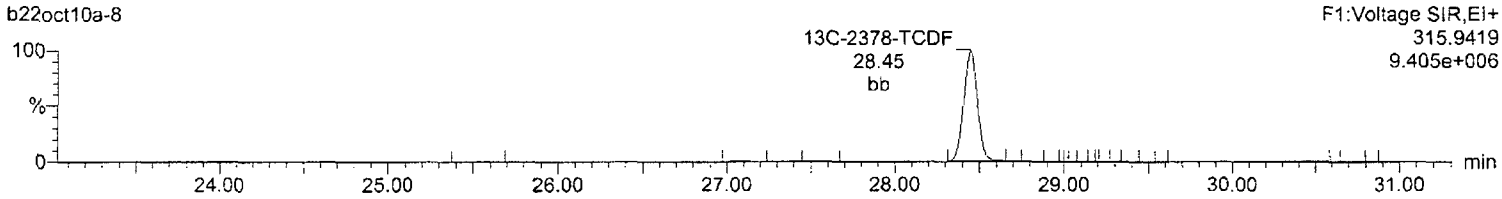
Total-tetrafurans



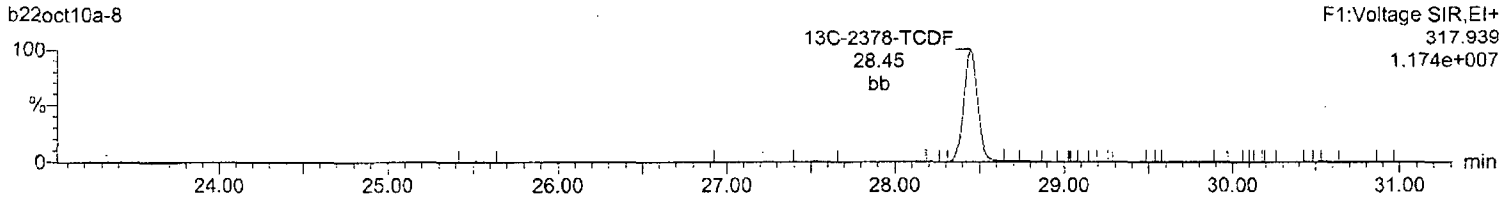
Total-tetrafurans



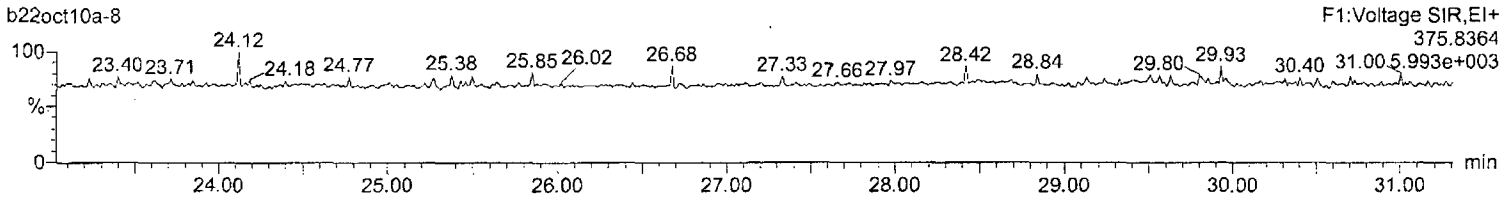
13C-2378-TCDF



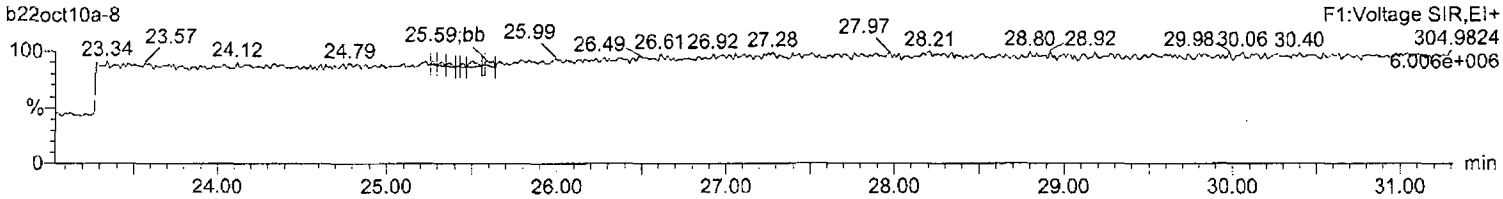
13C-2378-TCDF



HxDPE



Lock Mass F1



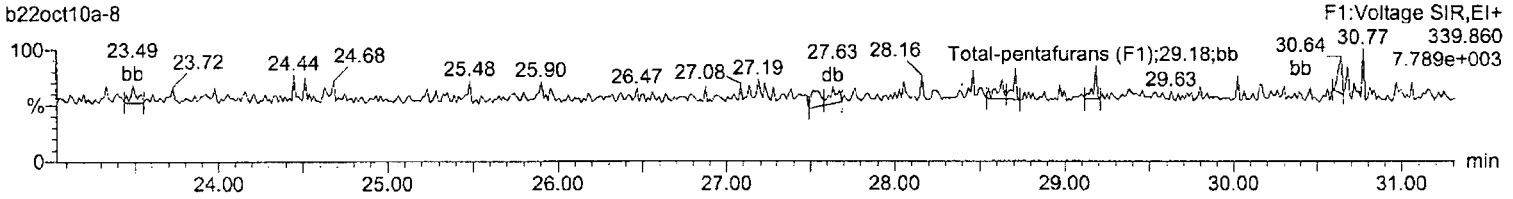
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

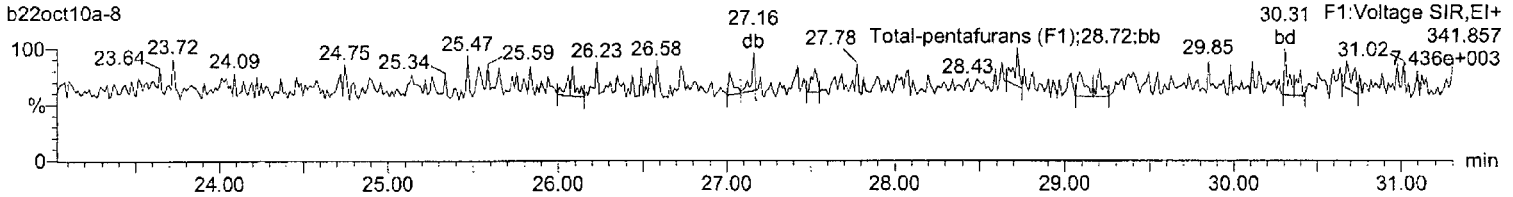
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

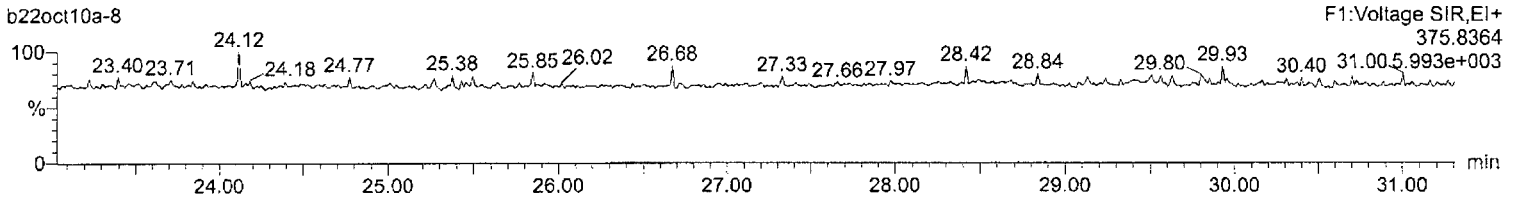
Total-pentafurans (F1)



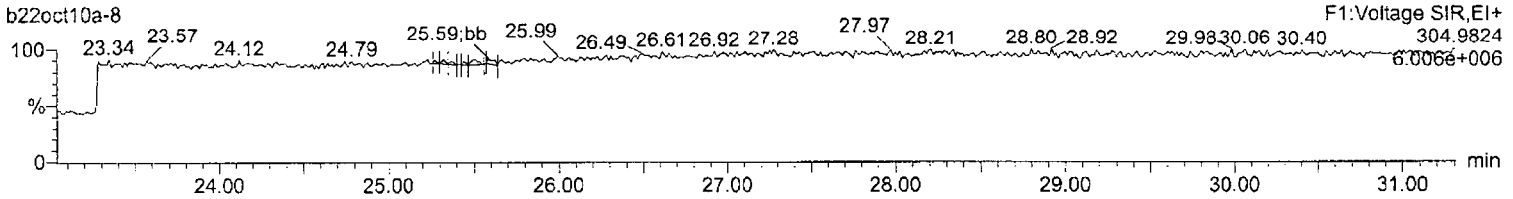
Total-pentafurans (F1)



HxDPE



Lock Mass F1



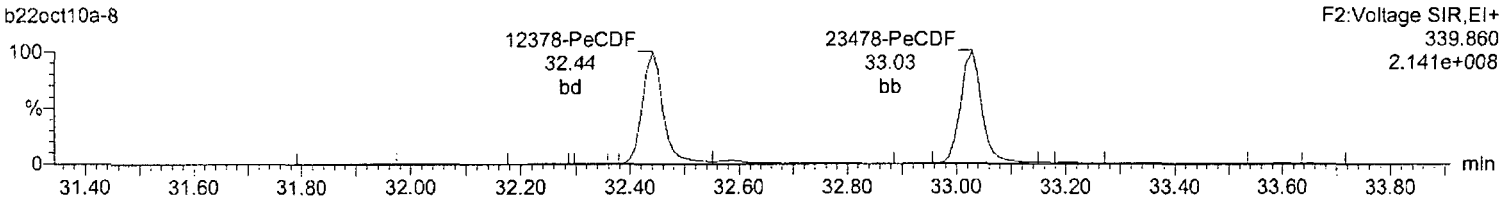
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

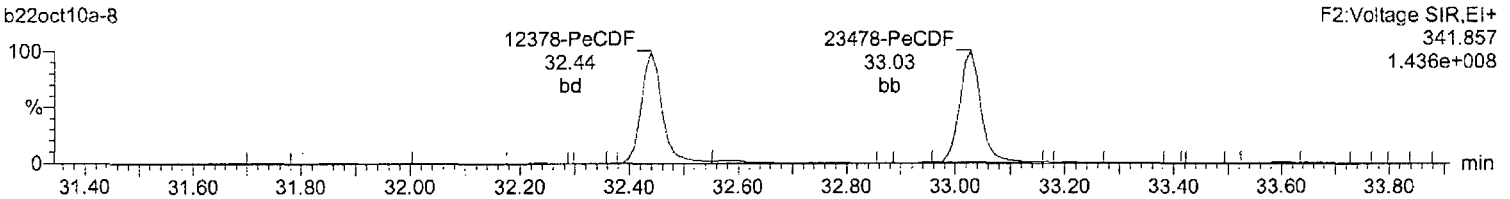
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

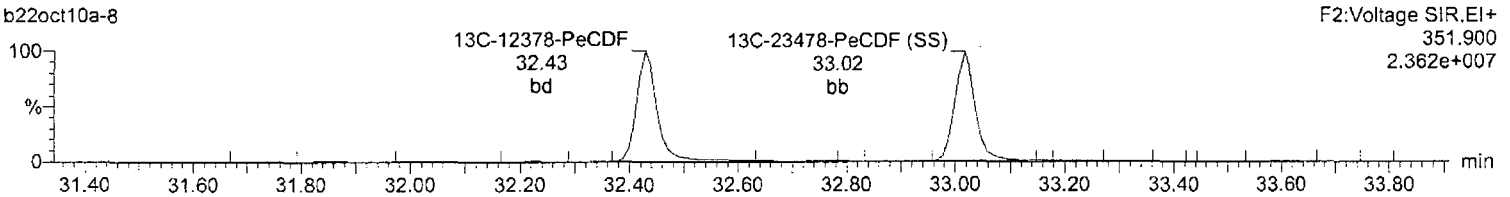
Total-pentafurans



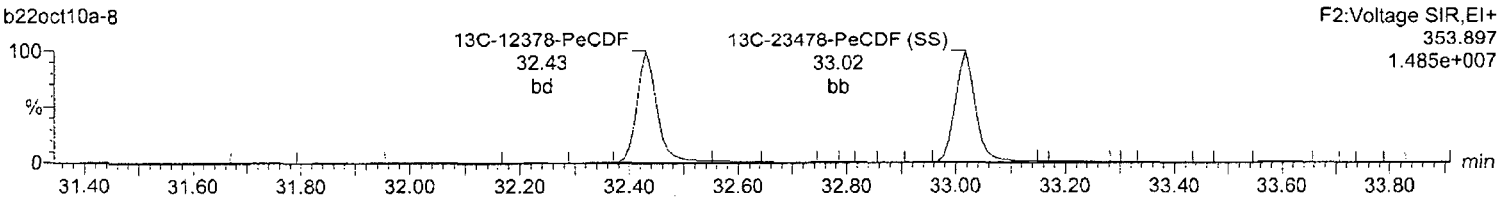
Total-pentafurans



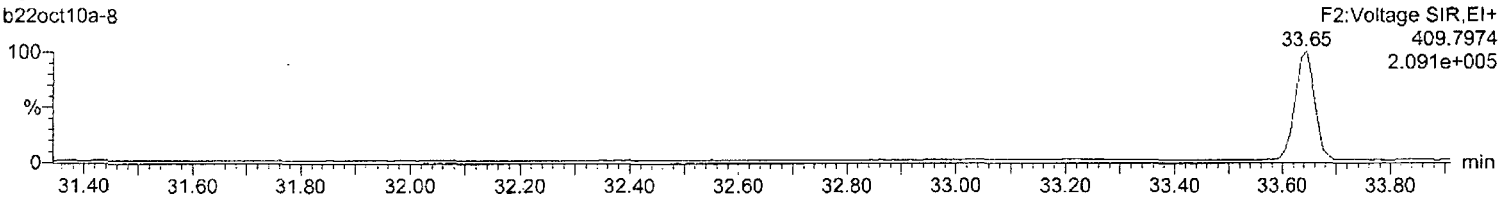
13C-12378-PeCDF



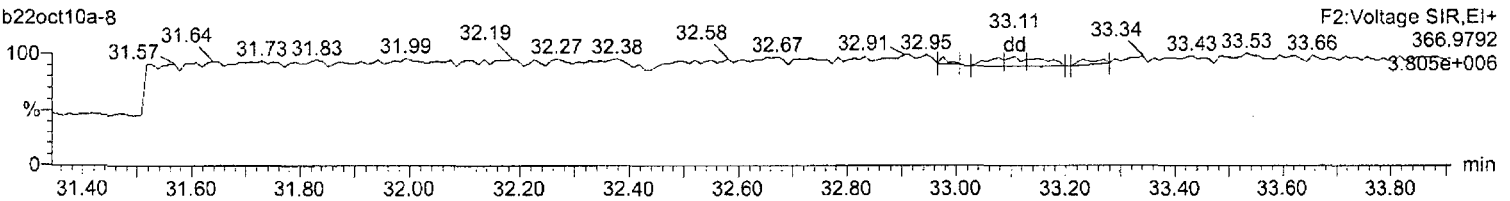
13C-12378-PeCDF



HpDPE



Lock Mass F2



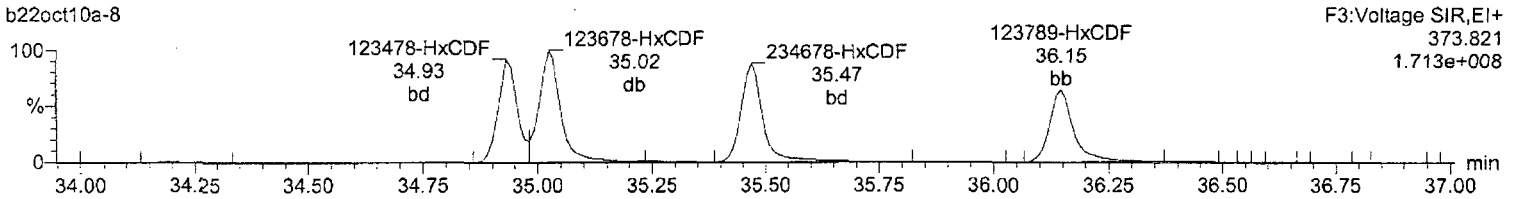
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

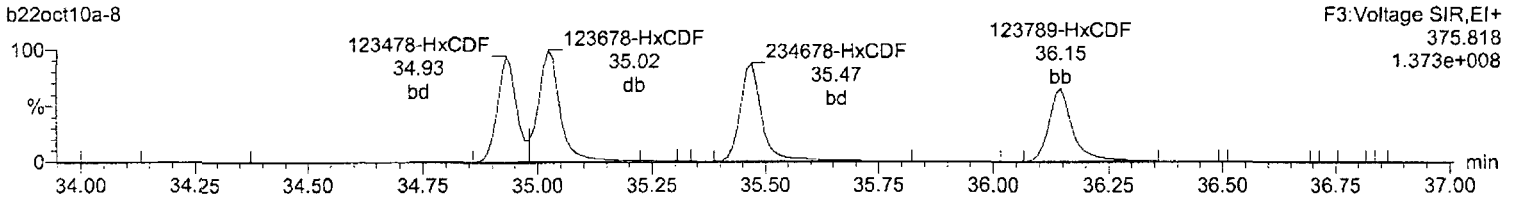
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

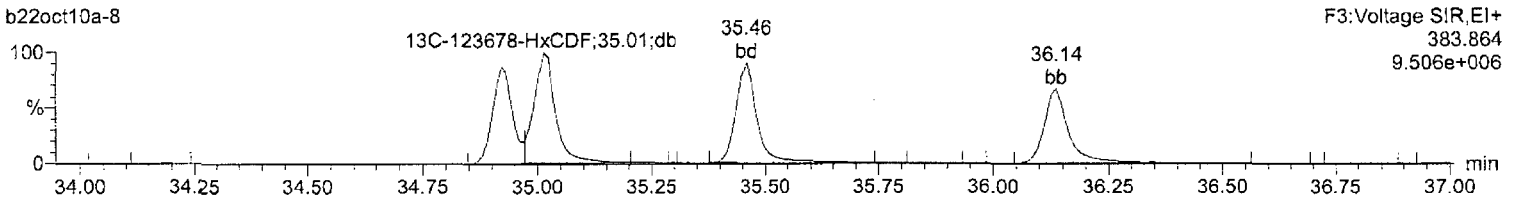
Total-hexafurans



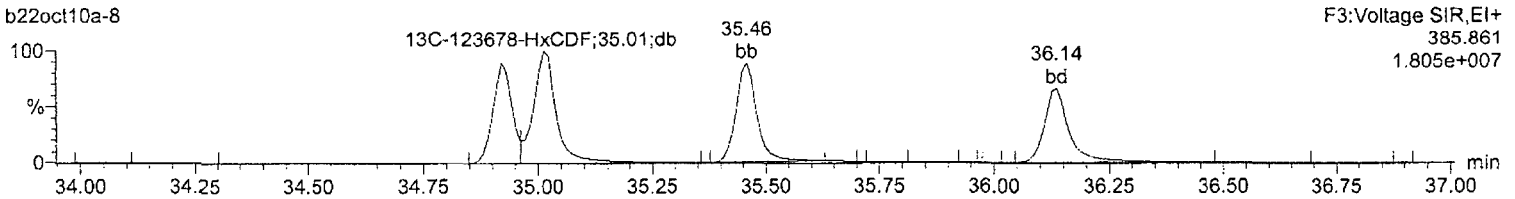
Total-hexafurans



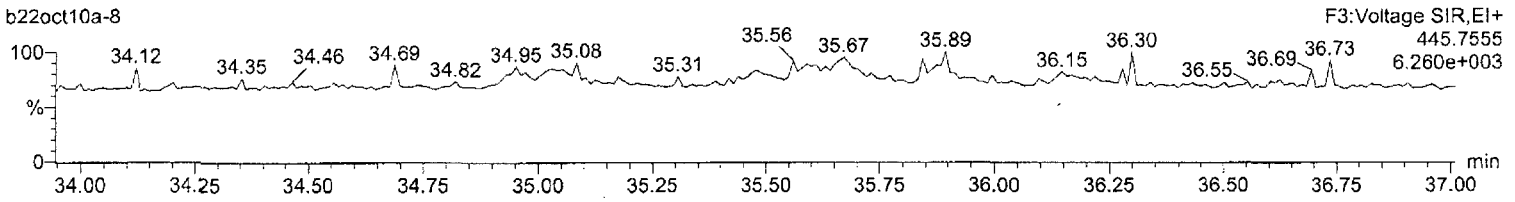
13C-123678-HxCDF



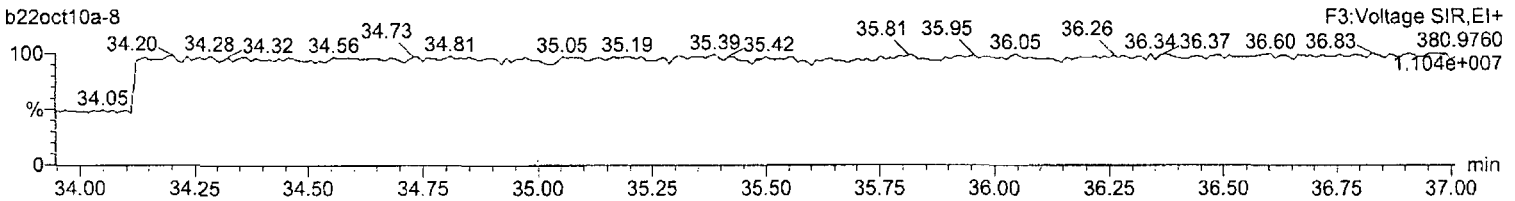
13C-123678-HxCDF



OcDPE



Lock Mass F3



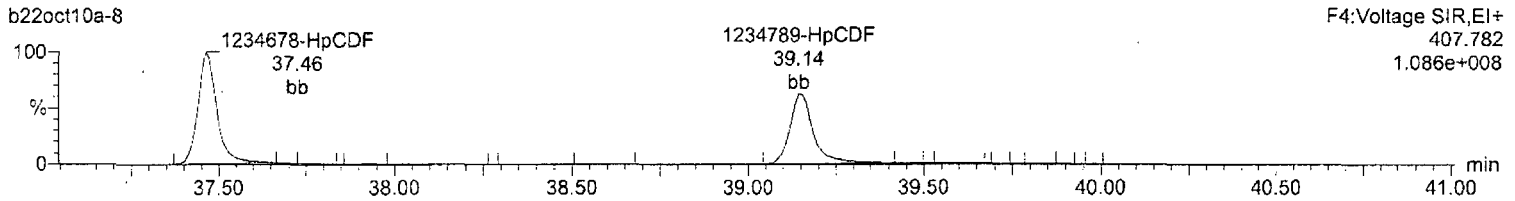
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

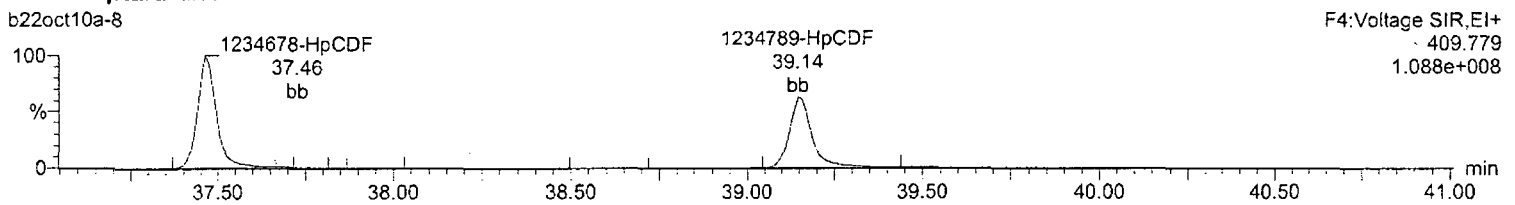
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

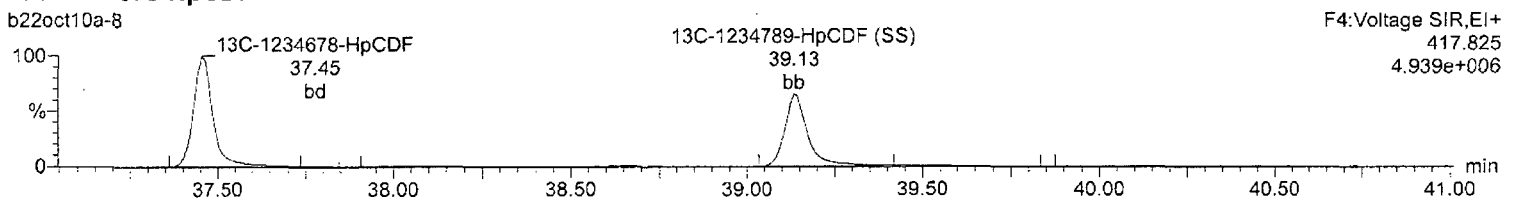
Total-heptafurans



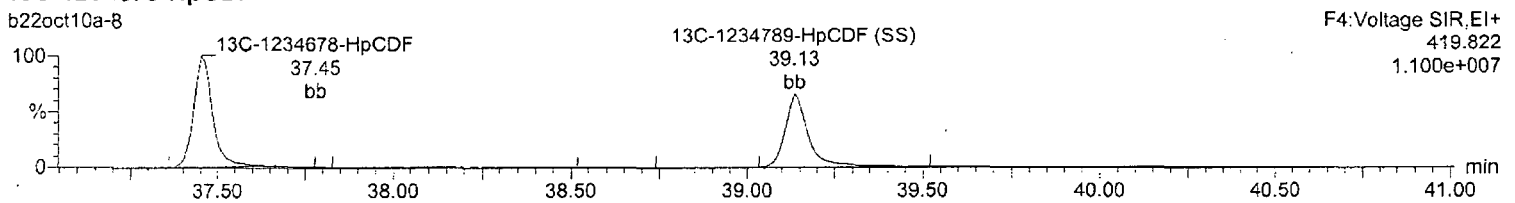
Total-heptafurans



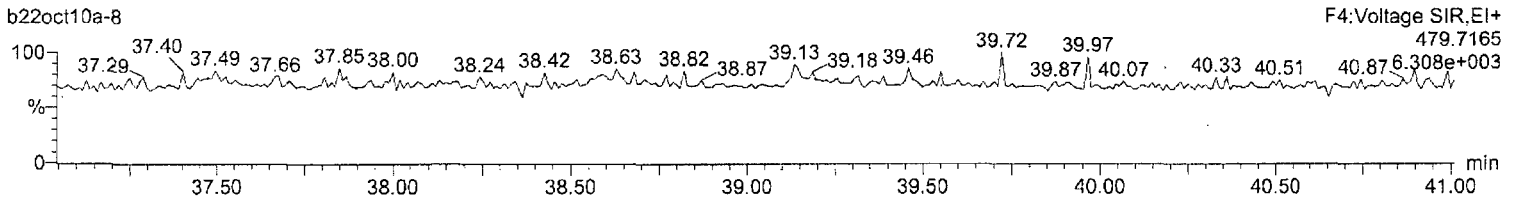
13C-1234678-HpCDF



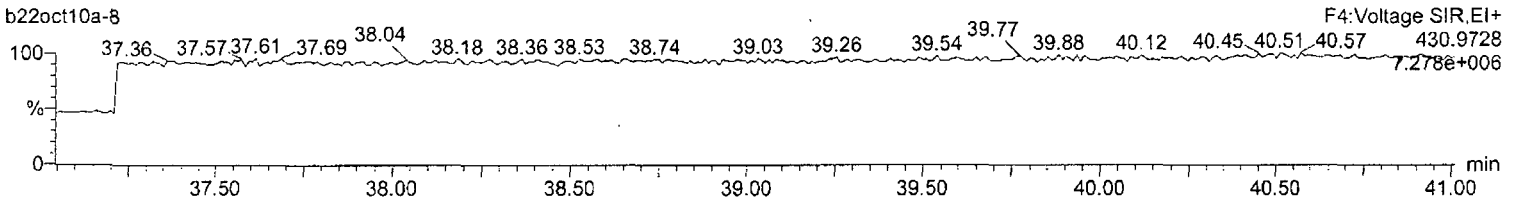
13C-1234678-HpCDF



NoDPE



Lock Mass F4



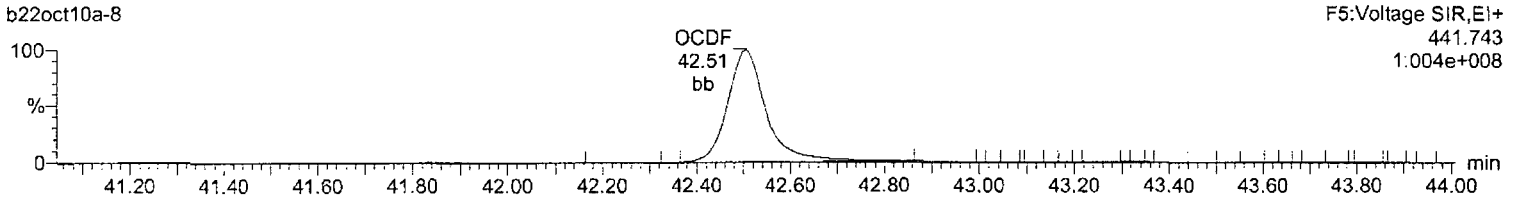
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b22oct10a.qld

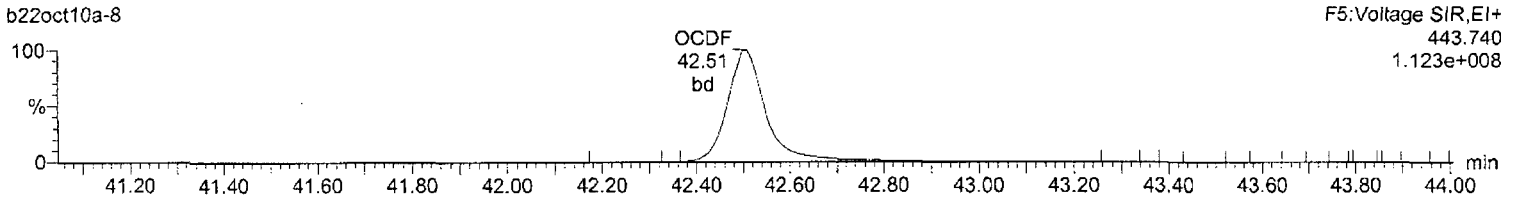
Last Altered: Monday, October 25, 2010 09:11:30 Eastern Standard Time
Printed: Monday, October 25, 2010 09:12:23 Eastern Standard Time

Name: b22oct10a-8, Date: 22-Oct-2010, Time: 16:08:45, ID: CS5 UD090323-06, Description: , Job: b22oct10a, Task: HRP763_1
User: MJC

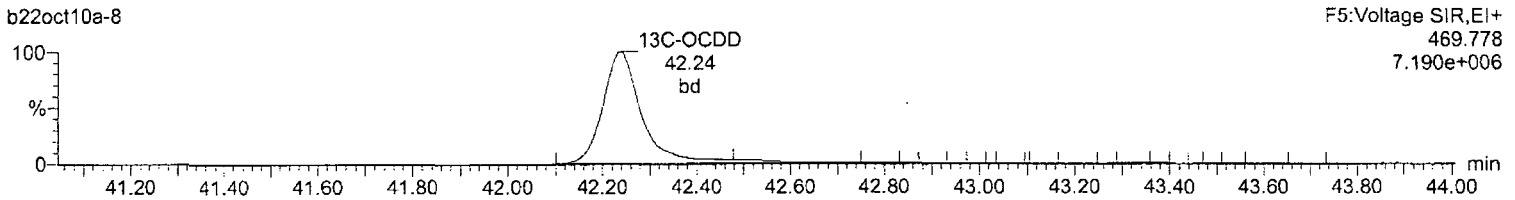
OCDF



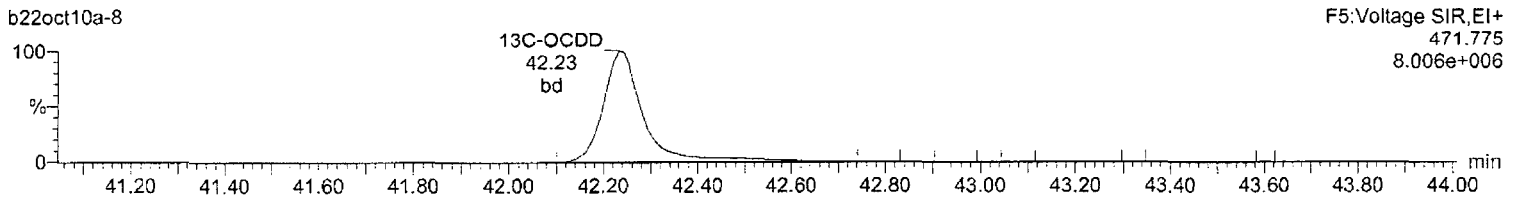
OCDF



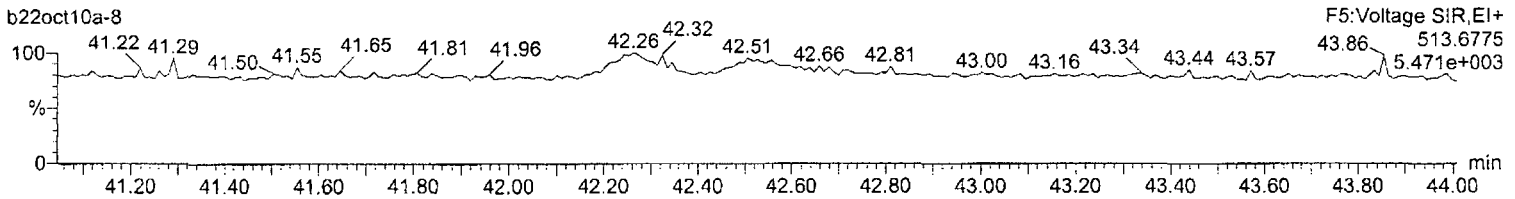
13C-OCDD



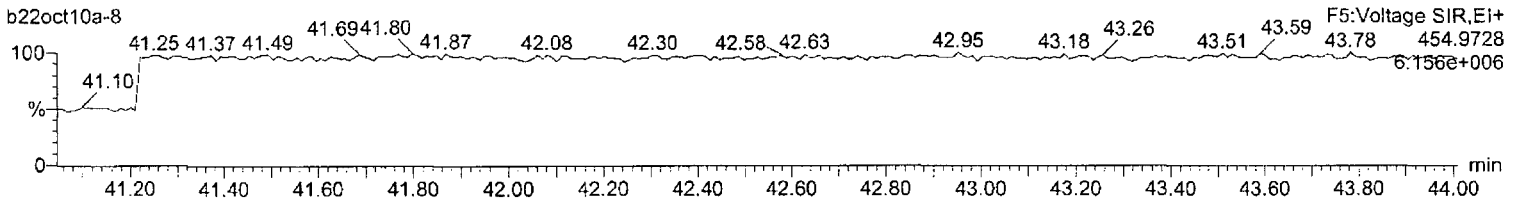
13C-OCDD



DeDPE



Lock Mass F5



HRP763_8290

Ple 2NOV10

Runlog Information

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
	b01nov10b-1	HRP763_1	01-NOV-2010 17:33	b01nov10b	Matt Cash		CS3WT UD100713-01.2	1 uL
	b01nov10b-2	HRP763_1	01-NOV-2010 18:28	b01nov10b	Matt Cash		SB	1 uL
	b01nov10b-3	HRP763_1	01-NOV-2010 19:16	b01nov10b	Matt Cash		CS0.5 UD101022-01	1 uL
	b01nov10b-4	HRP763_1	01-NOV-2010 20:04	b01nov10b	Matt Cash		CS1 UD090323-02	1 uL
	b01nov10b-5	HRP763_1	01-NOV-2010 20:53	b01nov10b	Matt Cash		CS2 UD090323-03	1 uL
	b01nov10b-6	HRP763_1	01-NOV-2010 21:41	b01nov10b	Matt Cash		CS3 UD090323-04	1 uL
	b01nov10b-7	HRP763_1	01-NOV-2010 22:29	b01nov10b	Matt Cash		CS4 UD101022-05	1 uL
	b01nov10b-8	HRP763_1	01-NOV-2010 23:18	b01nov10b	Matt Cash		CS5 UD090323-06	1 uL
	b01nov10b-9	HRP763_1	02-NOV-2010 00:06	b01nov10b	Matt Cash		SB	1 uL

HRP763 8290 ICAL 801NOV10B

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:19:01

Compound name: 2378-TCDD
Response Factor: 1.0126
RRF SD: 0.0732305, Relative SD: 7.2319
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.76	0.27	1.094	1.013	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.76	0.46	0.926	1.013	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.75	1.85	0.938	1.013	bd
4	b01nov10b-6	CS3 UD090323-04	10.000	31.76	9.81	0.994	1.013	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.75	43.21	1.094	1.013	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.76	203.29	1.029	1.013	bb

Compound name: 12378-PeCDD
Response Factor: 1.0319
RRF SD: 0.0411984, Relative SD: 3.99249
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	34.54	1.21	0.998	1.032	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	34.56	2.37	0.977	1.032	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	34.55	10.02	1.034	1.032	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	34.56	49.79	1.028	1.032	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	34.55	207.68	1.072	1.032	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	34.55	1050.37	1.084	1.032	bb

Compound name: 123478-HxCDD
Response Factor: 0.896587
RRF SD: 0.0501524, Relative SD: 5.59371
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.24	1.30	0.935	0.897	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.23	2.39	0.856	0.897	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.23	9.16	0.821	0.897	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.24	50.13	0.899	0.897	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.23	203.47	0.912	0.897	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.23	1066.50	0.956	0.897	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123678-HxCDD
Response Factor: 0.967836
RRF SD: 0.0286259, Relative SD: 2.95772
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.33	1.24	0.957	0.968	dd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.33	2.41	0.932	0.968	dd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.32	9.75	0.944	0.968	db
4	b01nov10b-6	CS3 UD090323-04	50.000	37.33	51.20	0.991	0.968	db
5	b01nov10b-7	CS4 UD101022-05	200.000	37.32	201.36	0.974	0.968	db
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.32	1041.10	1.008	0.968	db

Compound name: 123789-HxCDD
Response Factor: 0.865341
RRF SD: 0.0374697, Relative SD: 4.33004
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.57	1.25	0.864	0.865	bb
2	b01nov10b-4	CS1 UD090323-02	2.500	37.58	2.34	0.810	0.865	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	37.57	9.73	0.842	0.865	bb
4	b01nov10b-6	CS3 UD090323-04	50.000	37.57	50.85	0.880	0.865	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.57	202.43	0.876	0.865	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.57	1063.64	0.920	0.865	bb

Compound name: 1234678-HpCDD
Response Factor: 1.00484
RRF SD: 0.0579116, Relative SD: 5.76326
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	40.76	1.19	0.958	1.005	M...
2	b01nov10b-4	CS1 UD090323-02	2.500	40.77	2.38	0.957	1.005	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	40.75	9.41	0.946	1.005	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	40.76	51.46	1.034	1.005	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	40.76	210.04	1.055	1.005	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	40.75	1073.29	1.078	1.005	bb

Compound name: OCDD
Response Factor: 0.995746
RRF SD: 0.0753126, Relative SD: 7.56344
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

$\overline{RRF} = 1.00$

RSD = 6

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	2.500	45.19	2.32	0.924	0.996	bd
2	b01nov10b-4	CS1 UD090323-02	5.000	45.19	4.68	0.932	0.996	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: OCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	20.000	45.17	18.62	0.927	0.996	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	45.19	104.54	1.041	0.996	bd
5	b01nov10b-7	CS4 UD101022-05	400.000	45.18	431.74	1.075	0.996	bd
6	b01nov10b-8	CS5 UD090323-06	2000.000	45.19	2158.82	1.075	0.996	bd

Compound name: 2378-TCDF
Response Factor: 0.983356
RRF SD: 0.0381153, Relative SD: 3.87604
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.22	0.25	0.982	0.983	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.22	0.47	0.932	0.983	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.22	2.00	0.984	0.983	bb
4	b01nov10b-6	CS3 UD090323-04	10.000	31.22	10.21	1.004	0.983	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.22	38.92	0.957	0.983	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.22	211.98	1.042	0.983	bb

Compound name: 12378-PeCDF
Response Factor: 0.934223
RRF SD: 0.0345013, Relative SD: 3.69305
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	33.72	1.18	0.882	0.934	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	33.72	2.41	0.901	0.934	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	33.72	10.09	0.943	0.934	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	33.72	51.62	0.964	0.934	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	33.72	203.70	0.951	0.934	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	33.72	1031.39	0.964	0.934	bd

Compound name: 23478-PeCDF
Response Factor: 0.91433
RRF SD: 0.0357945, Relative SD: 3.91484
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	34.35	1.20	0.874	0.914	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	34.35	2.37	0.866	0.914	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	34.34	10.06	0.920	0.914	bb
4	b01nov10b-6	CS3 UD090323-04	50.000	34.35	50.98	0.932	0.914	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	34.35	206.23	0.943	0.914	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	34.35	1039.68	0.951	0.914	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123478-HxCDF
Response Factor: 0.908747
RRF SD: 0.0246049, Relative SD: 2.70757
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	36.49	1.23	0.896	0.909	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	36.49	2.45	0.891	0.909	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	36.49	9.79	0.890	0.909	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	36.50	49.28	0.896	0.909	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	36.49	205.35	0.933	0.909	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	36.49	1041.71	0.947	0.909	bd

Compound name: 123678-HxCDF
Response Factor: 1.05753
RRF SD: 0.049877, Relative SD: 4.71634
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	36.60	1.20	1.019	1.058	dd
2	b01nov10b-4	CS1 UD090323-02	2.500	36.60	2.35	0.994	1.058	dd
3	b01nov10b-5	CS2 UD090323-03	10.000	36.59	9.80	1.037	1.058	dd
4	b01nov10b-6	CS3 UD090323-04	50.000	36.60	50.47	1.068	1.058	dd
5	b01nov10b-7	CS4 UD101022-05	200.000	36.60	210.31	1.112	1.058	db
6	b01nov10b-8	CS5 UD090323-06	1000.000	36.60	1055.20	1.116	1.058	db

Compound name: 234678-HxCDF
Response Factor: 0.955669
RRF SD: 0.0509714, Relative SD: 5.33358
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.11	1.23	0.940	0.956	bb
2	b01nov10b-4	CS1 UD090323-02	2.500	37.11	2.38	0.909	0.956	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	37.10	9.63	0.920	0.956	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.10	48.42	0.925	0.956	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.10	210.80	1.007	0.956	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.10	1079.38	1.032	0.956	bd

Compound name: 123789-HxCDF
Response Factor: 0.791619
RRF SD: 0.0351231, Relative SD: 4.43687
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	37.91	1.21	0.767	0.792	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	37.92	2.40	0.759	0.792	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 123789-HxCDF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	10.000	37.90	9.88	0.782	0.792	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	37.91	48.59	0.769	0.792	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	37.91	211.49	0.837	0.792	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	37.91	1054.67	0.835	0.792	bb

Compound name: 1234678-HpCDF
Response Factor: 1.27673
RRF SD: 0.0736486, Relative SD: 5.76852
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	39.45	1.17	1.190	1.277	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	39.45	2.34	1.195	1.277	bb
3	b01nov10b-5	CS2 UD090323-03	10.000	39.44	9.83	1.256	1.277	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	39.45	52.41	1.338	1.277	bb
5	b01nov10b-7	CS4 UD101022-05	200.000	39.45	208.03	1.328	1.277	bb
6	b01nov10b-8	CS5 UD090323-06	1000.000	39.45	1060.63	1.354	1.277	bb

Compound name: 1234789-HpCDF
Response Factor: 0.930207
RRF SD: 0.0563113, Relative SD: 6.05363
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	1.250	41.46	1.20	0.894	0.930	bd
2	b01nov10b-4	CS1 UD090323-02	2.500	41.46	2.30	0.854	0.930	bd
3	b01nov10b-5	CS2 UD090323-03	10.000	41.45	9.66	0.898	0.930	bd
4	b01nov10b-6	CS3 UD090323-04	50.000	41.46	51.34	0.955	0.930	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	41.46	210.87	0.981	0.930	bd
6	b01nov10b-8	CS5 UD090323-06	1000.000	41.46	1073.17	0.998	0.930	bb

Compound name: OCDF
Response Factor: 1.23238
RRF SD: 0.132391, Relative SD: 10.7427
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	2.500	45.50	2.31	1.140	1.232	M...
2	b01nov10b-4	CS1 UD090323-02	5.000	45.51	4.33	1.066	1.232	bd
3	b01nov10b-5	CS2 UD090323-03	20.000	45.50	18.73	1.154	1.232	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	45.52	103.43	1.275	1.232	bd
5	b01nov10b-7	CS4 UD101022-05	400.000	45.51	452.77	1.395	1.232	bd
6	b01nov10b-8	CS5 UD090323-06	2000.000	45.51	2213.28	1.364	1.232	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-2378-TCDD
Response Factor: 1.11963
RRF SD: 0.0658623, Relative SD: 5.88249
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.75	93.00	1.041	1.120	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.75	102.23	1.145	1.120	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.73	102.80	1.151	1.120	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.75	94.51	1.058	1.120	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.73	98.57	1.104	1.120	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.73	108.89	1.219	1.120	bb

Compound name: 13C-12378-PeCDD
Response Factor: 0.95005
RRF SD: 0.0811964, Relative SD: 8.54654
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	34.53	95.21	0.905	0.950	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	34.54	93.08	0.884	0.950	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	34.54	94.30	0.896	0.950	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	34.55	99.74	0.948	0.950	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	34.54	101.57	0.965	0.950	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	34.53	116.10	1.103	0.950	bb

Compound name: 13C-123678-HxCDD
Response Factor: 1.1118
RRF SD: 0.0424519, Relative SD: 3.8183
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.31	94.94	1.056	1.112	db
2	b01nov10b-4	CS1 UD090323-02	100.000	37.32	98.33	1.093	1.112	db
3	b01nov10b-5	CS2 UD090323-03	100.000	37.31	97.21	1.081	1.112	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.32	103.32	1.149	1.112	db
5	b01nov10b-7	CS4 UD101022-05	100.000	37.31	104.90	1.166	1.112	db
6	b01nov10b-8	CS5 UD090323-06	100.000	37.31	101.30	1.126	1.112	db

Compound name: 13C-1234678-HpCDD
Response Factor: 0.800607
RRF SD: 0.0273231, Relative SD: 3.4128
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	40.74	100.11	0.801	0.801	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	40.74	98.31	0.787	0.801	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-1234678-HpCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	100.000	40.74	94.03	0.753	0.801	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	40.75	101.82	0.815	0.801	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	40.74	102.86	0.823	0.801	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	40.74	102.87	0.824	0.801	bb

Compound name: 13C-OCDD
Response Factor: 0.668312
RRF SD: 0.0489064, Relative SD: 7.3179 √
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	200.000	45.17	190.53	0.637	0.668	bd
2	b01nov10b-4	CS1 UD090323-02	200.000	45.17	190.95	0.638	0.668	bd
3	b01nov10b-5	CS2 UD090323-03	200.000	45.16	184.94	0.618	0.668	bd
4	b01nov10b-6	CS3 UD090323-04	200.000	45.17	201.32	0.673	0.668	bd
5	b01nov10b-7	CS4 UD101022-05	200.000	45.16	207.46	0.693	0.668	bd
6	b01nov10b-8	CS5 UD090323-06	200.000	45.17	224.80	0.751	0.668	bd

Compound name: 13C-2378-TCDF
Response Factor: 1.82115
RRF SD: 0.042666, Relative SD: 2.34281 √
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.21	98.53	1.794	1.821	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.21	97.45	1.775	1.821	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.21	98.99	1.803	1.821	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.21	99.98	1.821	1.821	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.21	100.95	1.838	1.821	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.21	104.11	1.896	1.821	bb

Compound name: 13C-12378-PeCDF
Response Factor: 1.69249
RRF SD: 0.136138, Relative SD: 8.04364 √
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	33.71	95.03	1.608	1.692	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	33.71	92.78	1.570	1.692	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	33.71	94.64	1.602	1.692	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	33.71	100.12	1.694	1.692	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	33.71	102.97	1.743	1.692	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	33.71	114.46	1.937	1.692	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-123678-HxCDF
Response Factor: 1.63056
RRF SD: 0.0789708, Relative SD: 4.84316
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	36.59	98.20	1.601	1.631	dd
2	b01nov10b-4	CS1 UD090323-02	100.000	36.59	99.49	1.622	1.631	dd
3	b01nov10b-5	CS2 UD090323-03	100.000	36.58	93.76	1.529	1.631	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	36.59	108.43	1.768	1.631	dd
5	b01nov10b-7	CS4 UD101022-05	100.000	36.58	101.42	1.654	1.631	dd
6	b01nov10b-8	CS5 UD090323-06	100.000	36.58	98.70	1.609	1.631	db

Compound name: 13C-1234678-HpCDF
Response Factor: 1.0808
RRF SD: 0.0409675, Relative SD: 3.79049
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	39.44	99.55	1.076	1.081	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	39.44	99.80	1.079	1.081	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	39.43	92.85	1.004	1.081	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	39.44	102.53	1.108	1.081	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	39.44	103.00	1.113	1.081	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	39.44	102.26	1.105	1.081	bb

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	31.34	100.00	1.000	1.000	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	31.34	100.00	1.000	1.000	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	31.34	100.00	1.000	1.000	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	31.34	100.00	1.000	1.000	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	31.34	100.00	1.000	1.000	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	31.34	100.00	1.000	1.000	bb

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.56	100.00	1.000	1.000	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	37.56	100.00	1.000	1.000	bb

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-123789-HxCDD

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
3	b01nov10b-5	CS2 UD090323-03	100.000	37.56	100.00	1.000	1.000	dd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.56	100.00	1.000	1.000	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	37.56	100.00	1.000	1.000	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	37.56	100.00	1.000	1.000	bb

Compound name: 37Cl-2378-TCDD (SS)
Response Factor: 1.05413
RRF SD: 0.0569641, Relative SD: 5.40392
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	0.250	31.76	0.26	1.110	1.054	bb
2	b01nov10b-4	CS1 UD090323-02	0.500	31.76	0.46	0.980	1.054	bb
3	b01nov10b-5	CS2 UD090323-03	2.000	31.75	1.91	1.009	1.054	bb
4	b01nov10b-6	CS3 UD090323-04	10.000	31.76	9.84	1.037	1.054	bb
5	b01nov10b-7	CS4 UD101022-05	40.000	31.75	42.72	1.126	1.054	bb
6	b01nov10b-8	CS5 UD090323-06	200.000	31.75	201.82	1.064	1.054	bb

Compound name: 13C-23478-PeCDF (SS)
Response Factor: 0.933349
RRF SD: 0.00699789, Relative SD: 0.749762
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	34.34	100.53	0.938	0.933	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	34.34	100.22	0.935	0.933	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	34.33	100.28	0.936	0.933	bb
4	b01nov10b-6	CS3 UD090323-04	100.000	34.34	98.87	0.923	0.933	bb
5	b01nov10b-7	CS4 UD101022-05	100.000	34.34	100.79	0.941	0.933	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	34.34	99.30	0.927	0.933	bb

Compound name: 13C-123478-HxCDF (SS)
Response Factor: 0.809676
RRF SD: 0.0245219, Relative SD: 3.02861
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	36.48	102.98	0.834	0.810	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	36.48	101.05	0.818	0.810	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	36.48	100.63	0.815	0.810	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	36.49	94.21	0.763	0.810	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	36.48	99.76	0.808	0.810	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	36.48	101.38	0.821	0.810	bd

Quantify Compound Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Compound name: 13C-123478-HxCDD (SS)
Response Factor: 0.860981
RRF SD: 0.0367108, Relative SD: 4.26384
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	37.22	104.88	0.903	0.861	bd
2	b01nov10b-4	CS1 UD090323-02	100.000	37.23	101.26	0.872	0.861	bd
3	b01nov10b-5	CS2 UD090323-03	100.000	37.22	94.73	0.816	0.861	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	37.22	99.84	0.860	0.861	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	37.22	95.32	0.821	0.861	bd
6	b01nov10b-8	CS5 UD090323-06	100.000	37.22	103.98	0.895	0.861	bd

Compound name: 13C-1234789-HpCDF (SS)
Response Factor: 0.756048
RRF SD: 0.0115395, Relative SD: 1.5263
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

	Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M
1	b01nov10b-3	CS0.5 UD101022-01	100.000	41.45	98.68	0.746	0.756	bb
2	b01nov10b-4	CS1 UD090323-02	100.000	41.45	98.98	0.748	0.756	bb
3	b01nov10b-5	CS2 UD090323-03	100.000	41.44	100.18	0.757	0.756	bd
4	b01nov10b-6	CS3 UD090323-04	100.000	41.45	98.95	0.748	0.756	bd
5	b01nov10b-7	CS4 UD101022-05	100.000	41.45	100.46	0.760	0.756	bb
6	b01nov10b-8	CS5 UD090323-06	100.000	41.45	102.74	0.777	0.756	bb

File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 01, 2010 17:30:44 Eastern Standard Time

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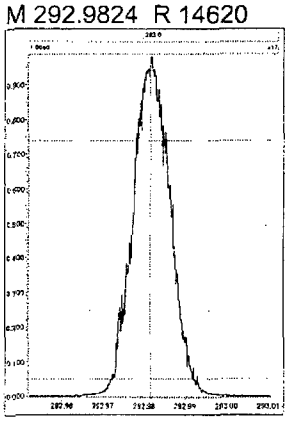
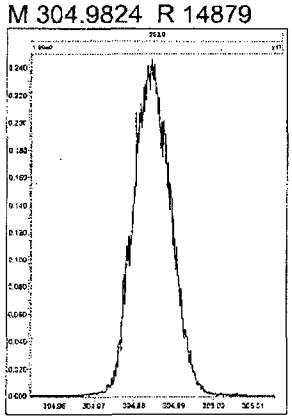
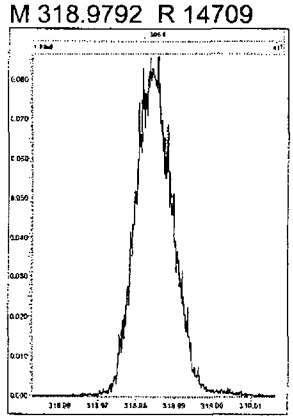


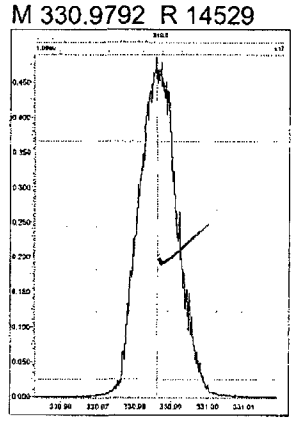
M 304.9824 R 14879



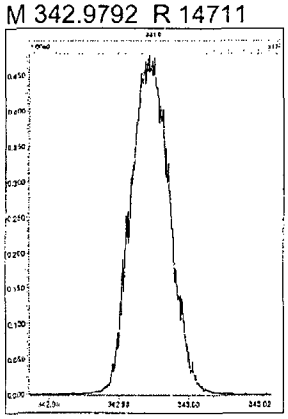
M 318.9792 R 14709



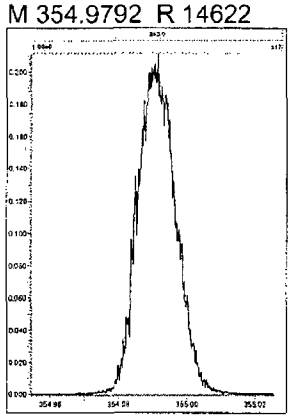
M 330.9792 R 14529



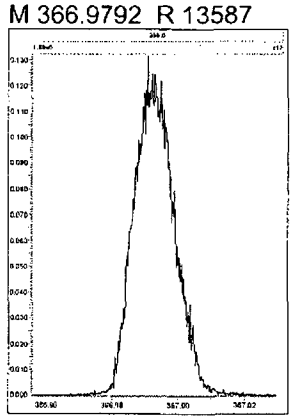
M 342.9792 R 14711



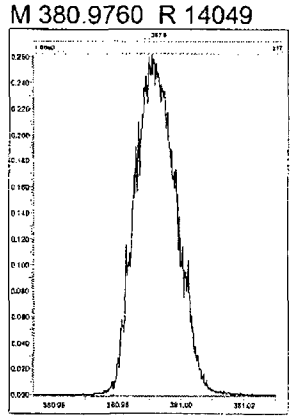
M 354.9792 R 14622



M 366.9792 R 13587



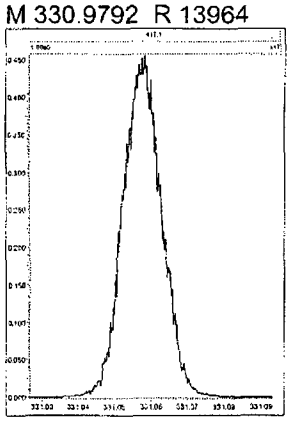
M 380.9760 R 14049



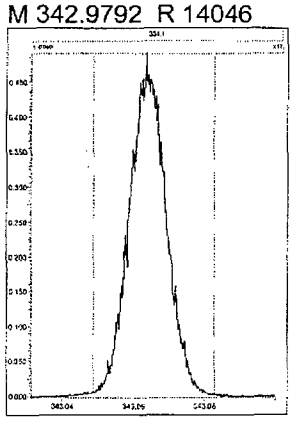
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 01, 2010 17:31:03 Eastern Standard Time

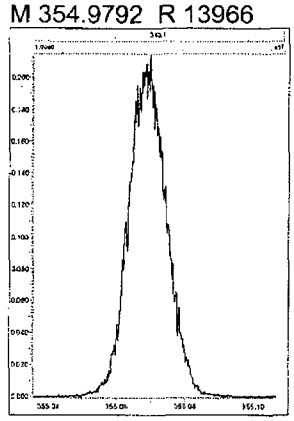
M 330.9792 R 13964



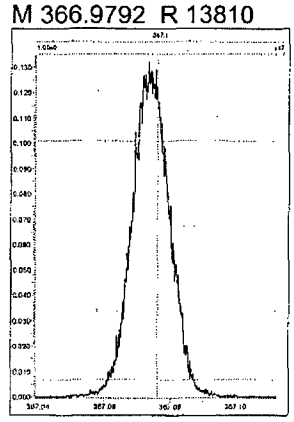
M 342.9792 R 14046



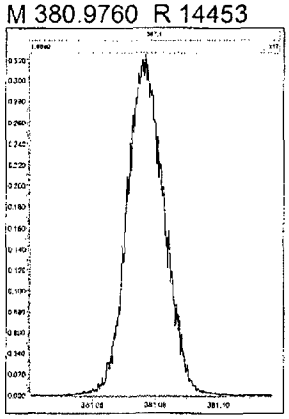
M 354.9792 R 13966



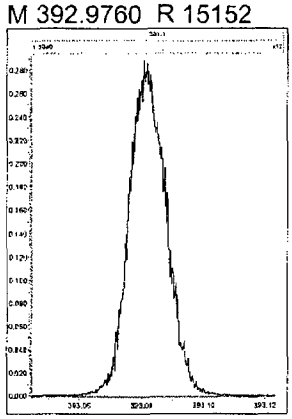
M 366.9792 R 13810



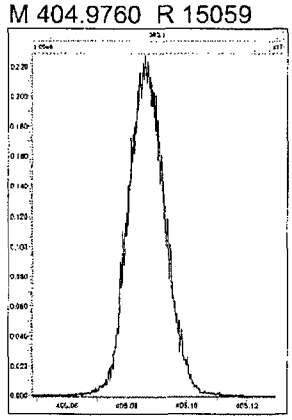
M 380.9760 R 14453



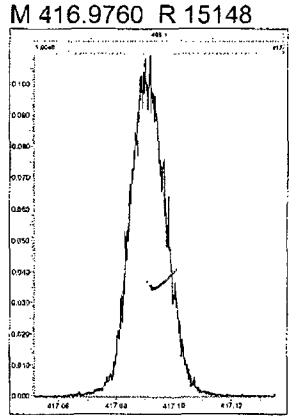
M 392.9760 R 15152



M 404.9760 R 15059



M 416.9760 R 15148



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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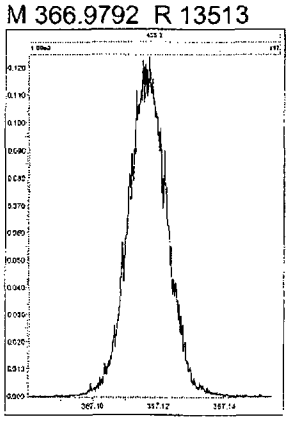
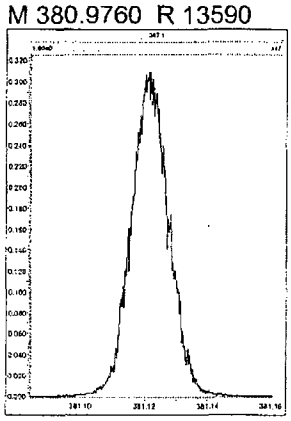
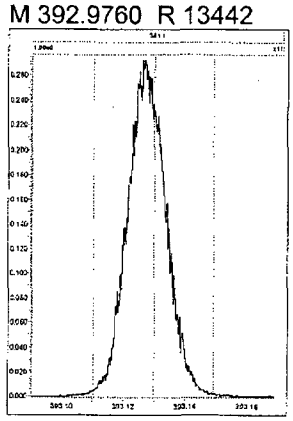
M 366.9792 R 13513



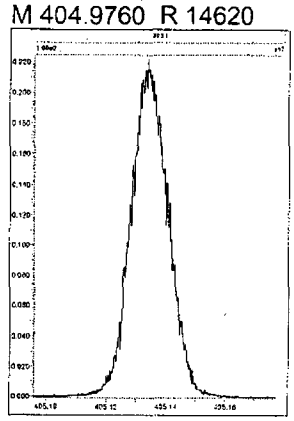
M 380.9760 R 13590



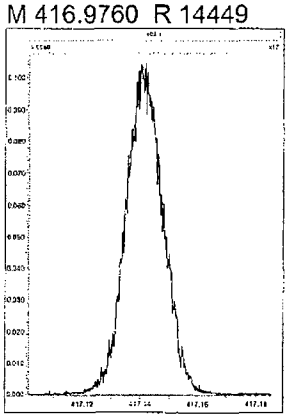
M 392.9760 R 13442



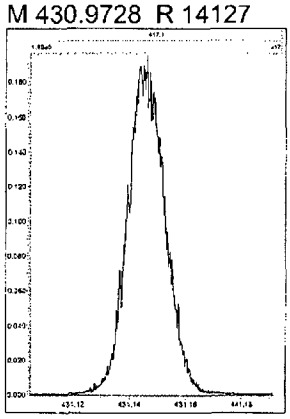
M 404.9760 R 14620



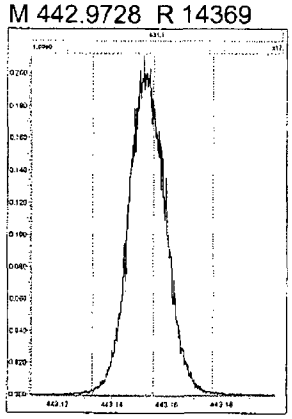
M 416.9760 R 14449



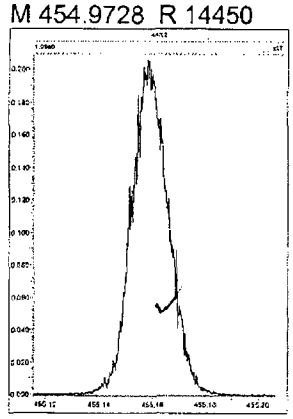
M 430.9728 R 14127



M 442.9728 R 14369



M 454.9728 R 14450



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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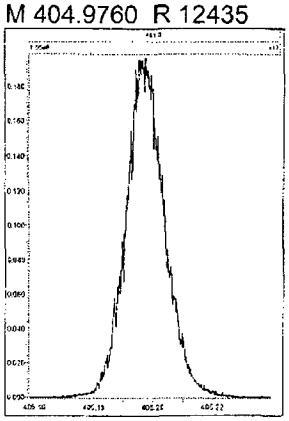
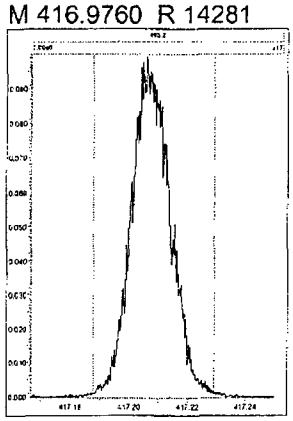
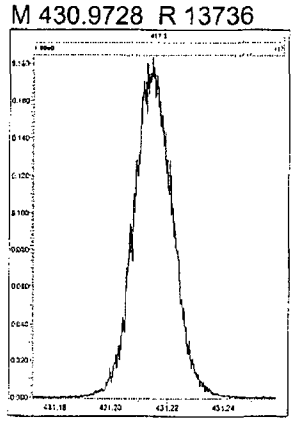
M 404.9760 R 12435



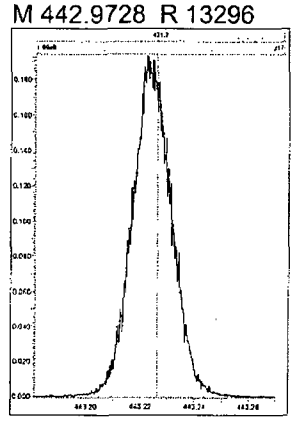
M 416.9760 R 14281



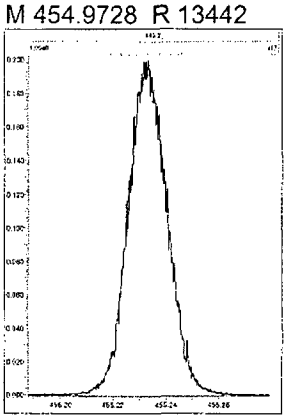
M 430.9728 R 13736



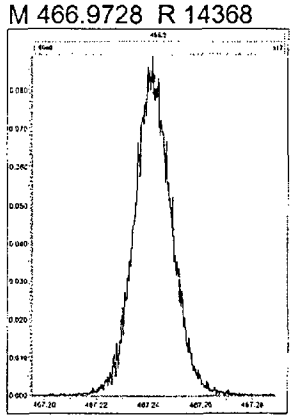
M 442.9728 R 13296



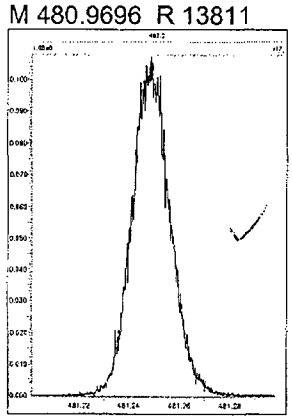
M 454.9728 R 13442



M 466.9728 R 14368



M 480.9696 R 13811



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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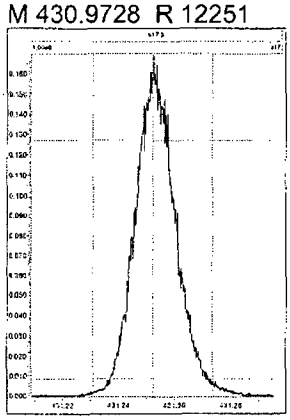
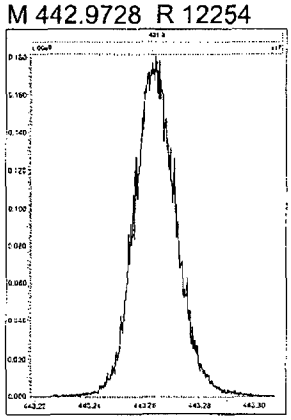
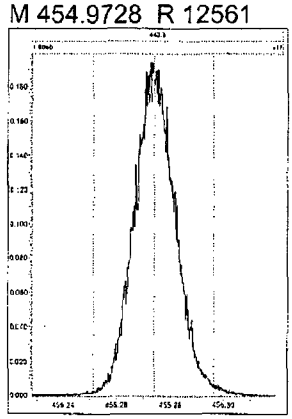
M 430.9728 R 12251



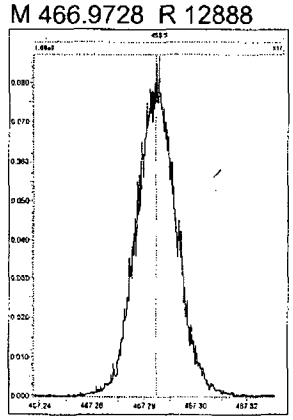
M 442.9728 R 12254



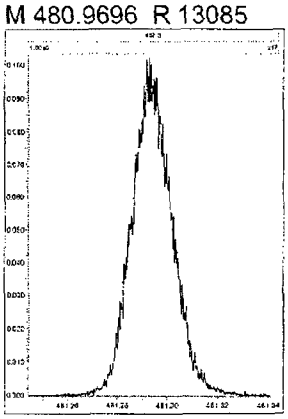
M 454.9728 R 12561



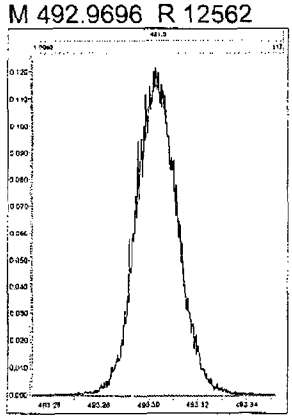
M 466.9728 R 12888



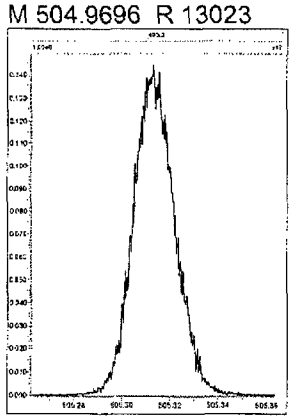
M 480.9696 R 13085



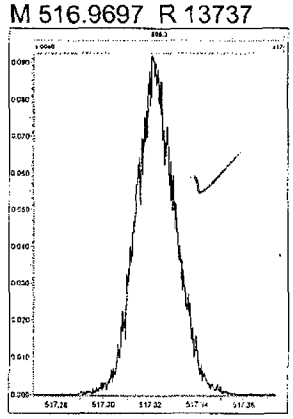
M 492.9696 R 12562



M 504.9696 R 13023



M 516.9697 R 13737



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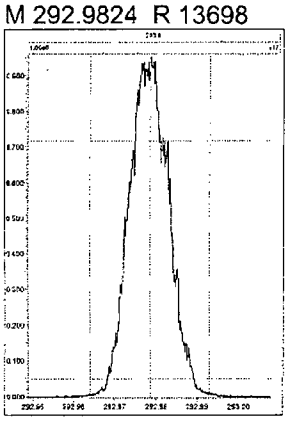
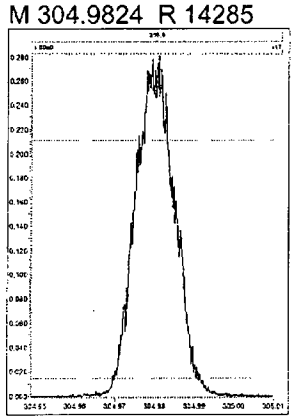
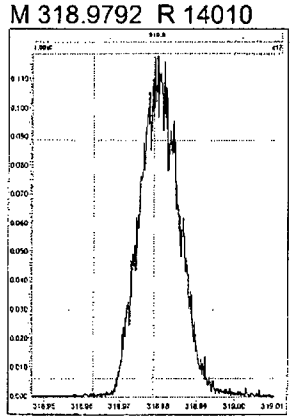
M 292.9824 R 13698



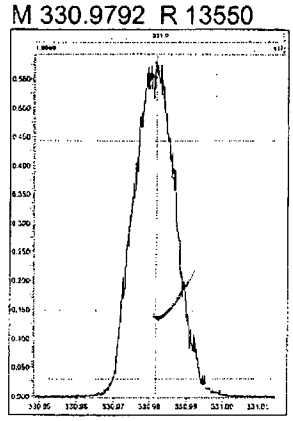
M 304.9824 R 14285



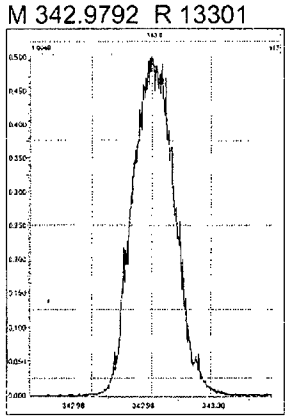
M 318.9792 R 14010



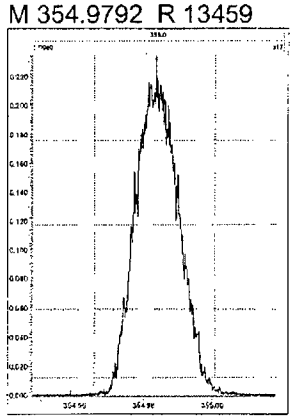
M 330.9792 R 13550



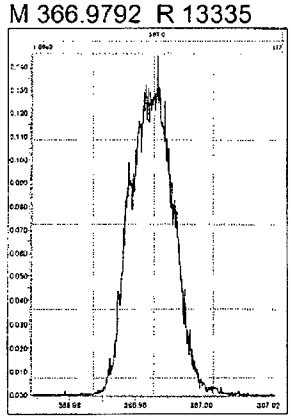
M 342.9792 R 13301



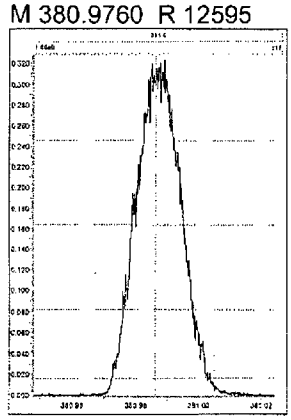
M 354.9792 R 13459



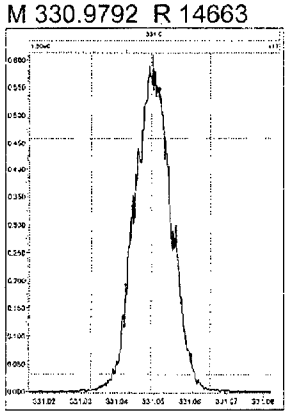
M 366.9792 R 13335



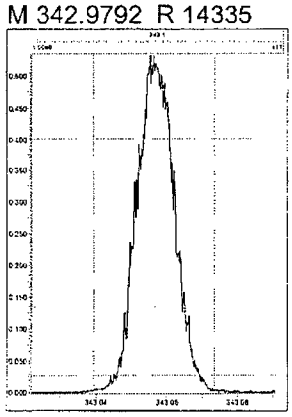
M 380.9760 R 12595



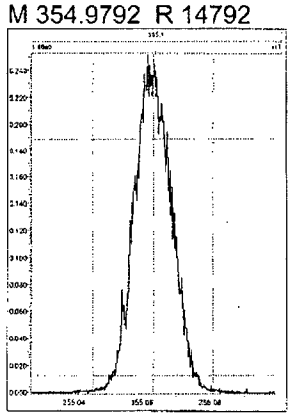
M 330.9792 R 14663



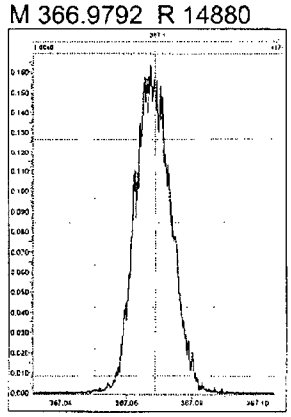
M 342.9792 R 14335



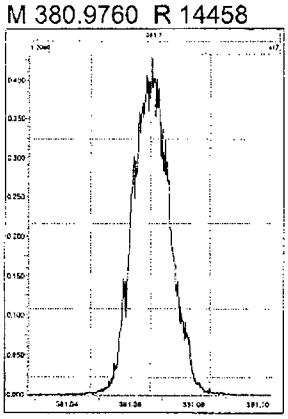
M 354.9792 R 14792



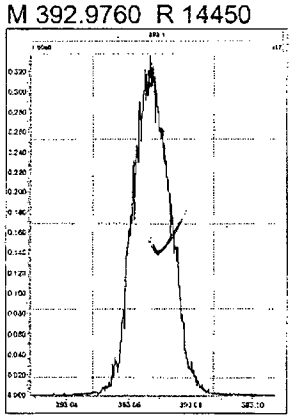
M 366.9792 R 14880



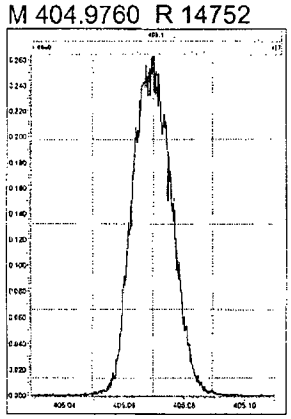
M 380.9760 R 14458



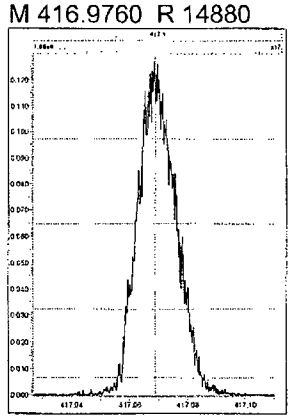
M 392.9760 R 14450



M 404.9760 R 14752



M 416.9760 R 14880



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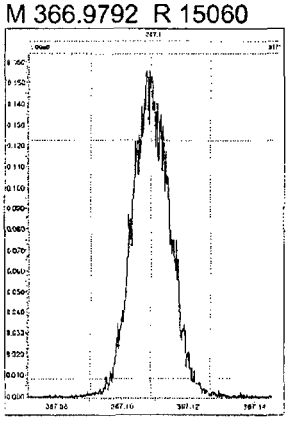
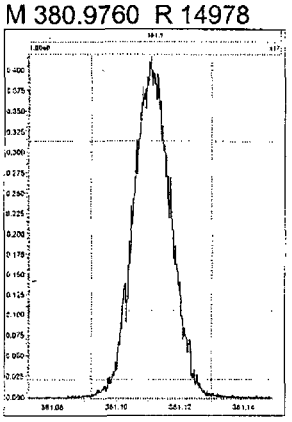
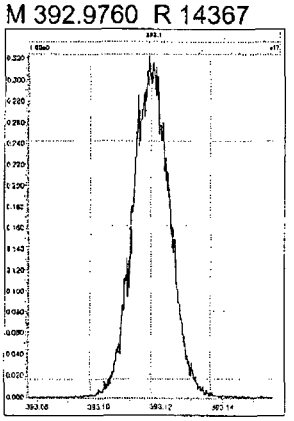
M 366.9792 R 15060



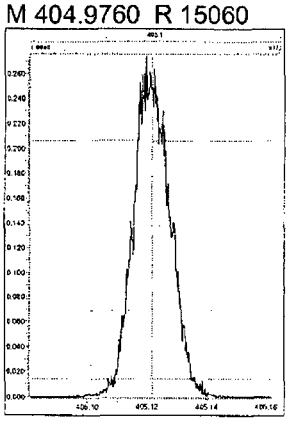
M 380.9760 R 14978



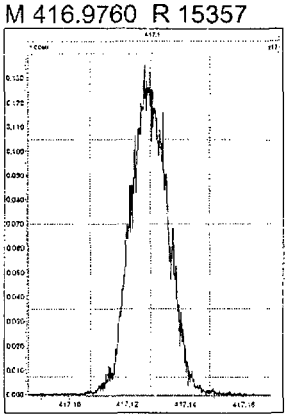
M 392.9760 R 14367



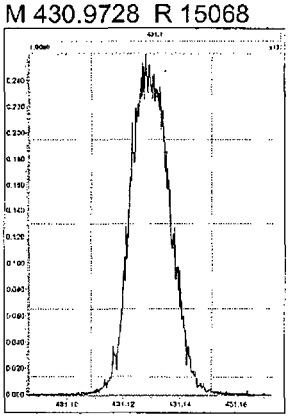
M 404.9760 R 15060



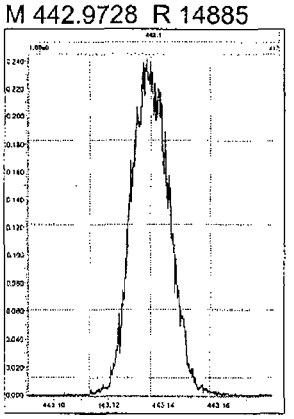
M 416.9760 R 15357



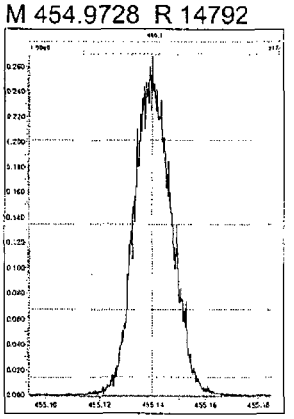
M 430.9728 R 15068



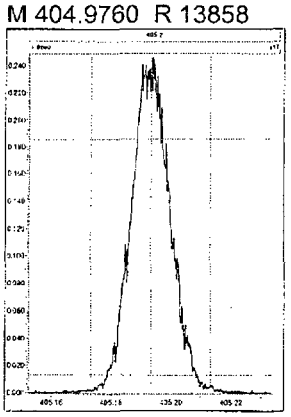
M 442.9728 R 14885



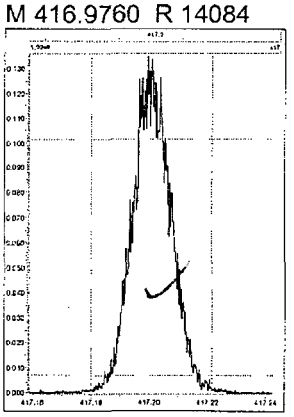
M 454.9728 R 14792



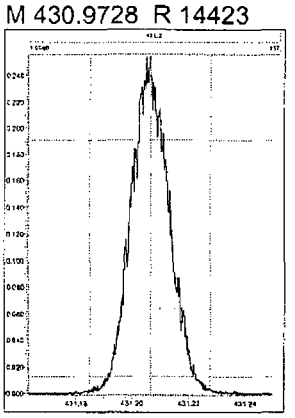
M 404.9760 R 13858



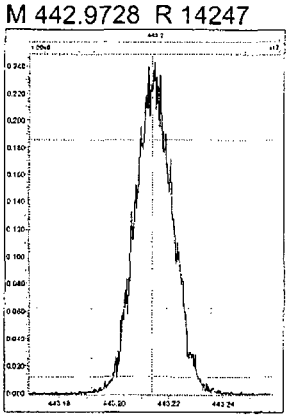
M 416.9760 R 14084



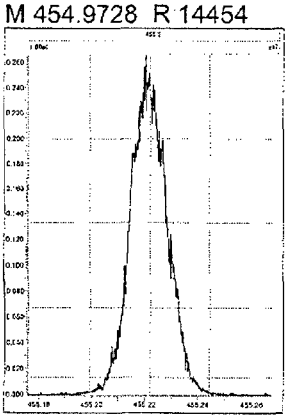
M 430.9728 R 14423



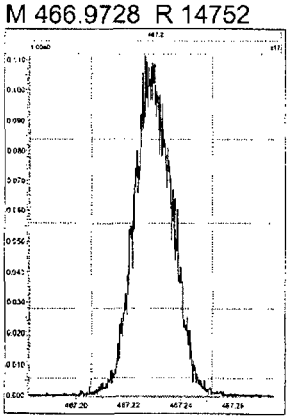
M 442.9728 R 14247



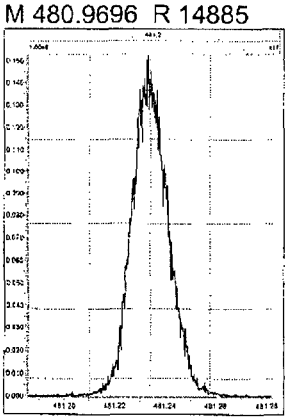
M 454.9728 R 14454



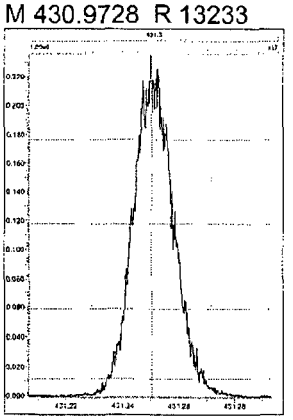
M 466.9728 R 14752



M 480.9696 R 14885

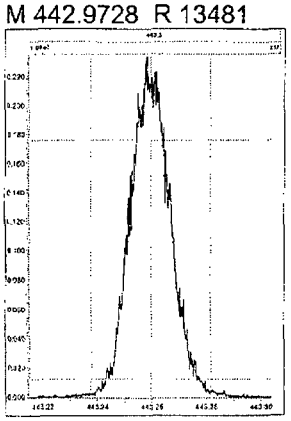


M 430.9728 R 13233

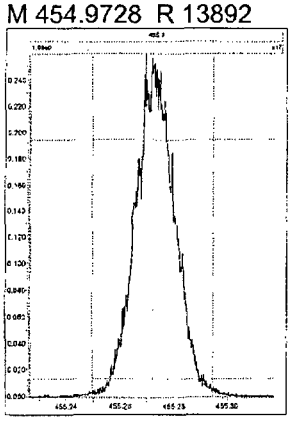


Printed: Tuesday, November 02, 2010 01:03:22 Eastern Standard Time

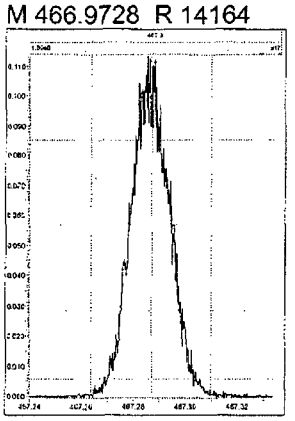
M 442.9728 R 13481



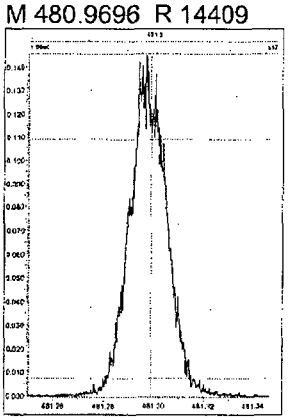
M 454.9728 R 13892



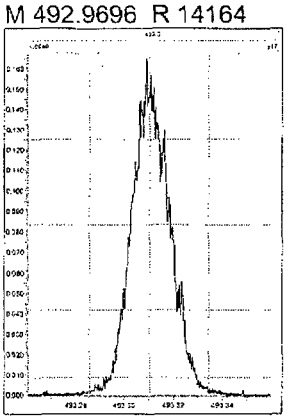
M 466.9728 R 14164



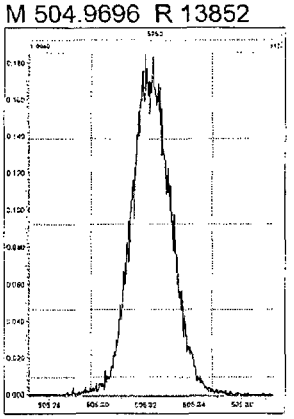
M 480.9696 R 14409



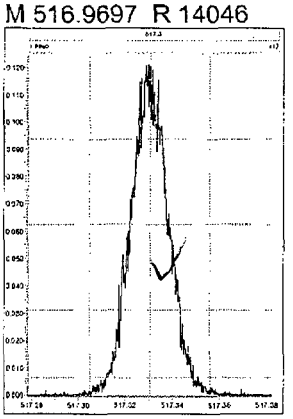
M 492.9696 R 14164



M 504.9696 R 13852



M 516.9697 R 14046



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	27.06
2	Last TCDF	32.34
3	First PeCDF	32.30
4	Last PeCDF	35.02
5	First HxCDF	35.52
6	Last HxCDF	37.93
7	First HpCDF	39.47
8	Last HpCDF	41.48
9	OCDF	45.52
10	First TCDD	28.81
11	2378-TCDD	31.76
12	Last TCDD	32.26
13	First PeCDD	33.18
14	Last PeCDD	34.83
15	First HxCDD	35.95
16	Last HxCDD	37.59
17	First HpCDD	39.80
18	Last HpCDD	40.77
19	OCDD	45.20

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

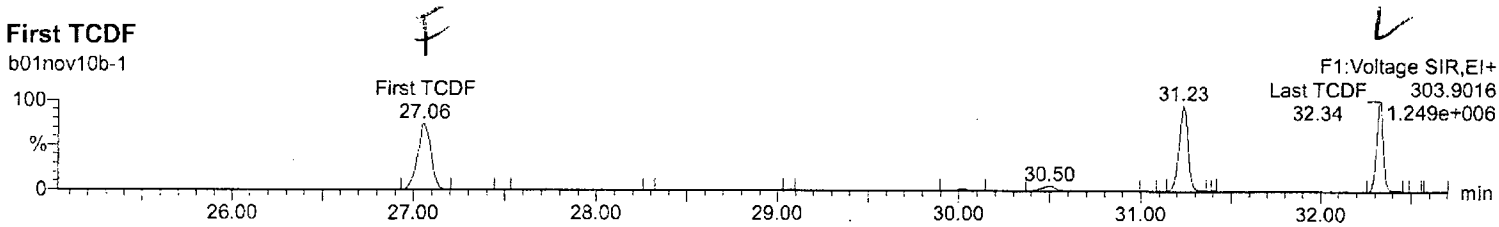
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

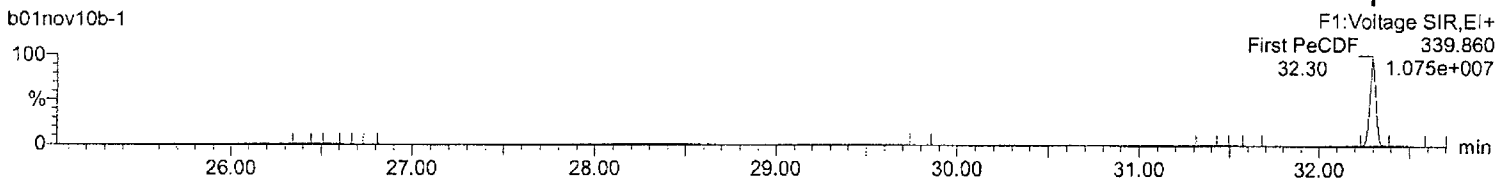
Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

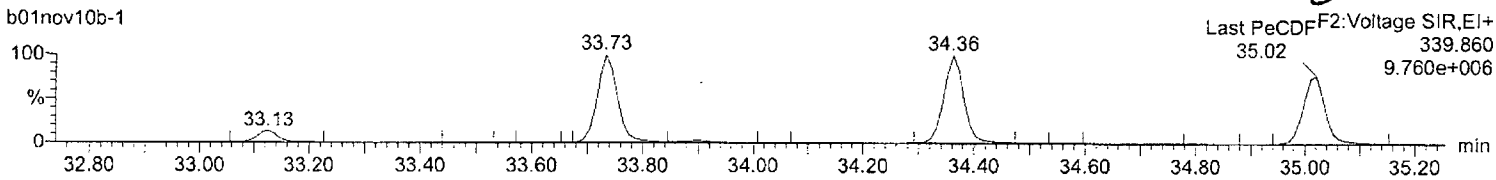
First TCDF
b01nov10b-1



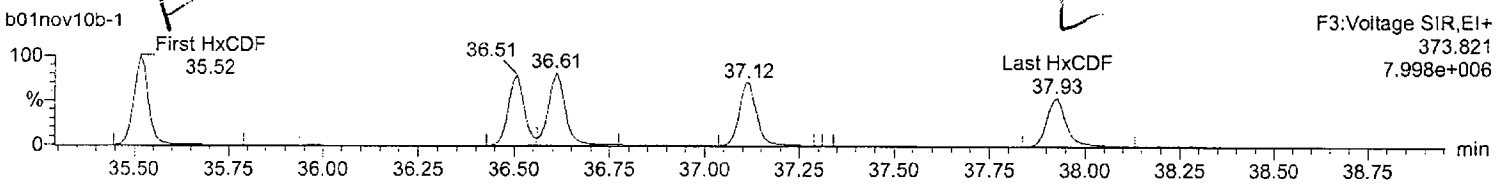
First PeCDF
b01nov10b-1



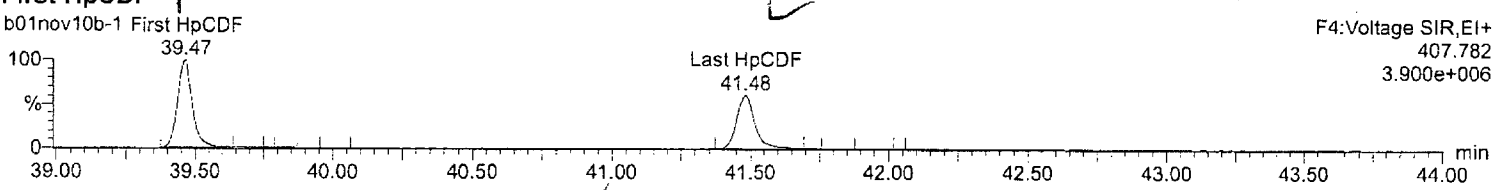
Last PeCDF
b01nov10b-1



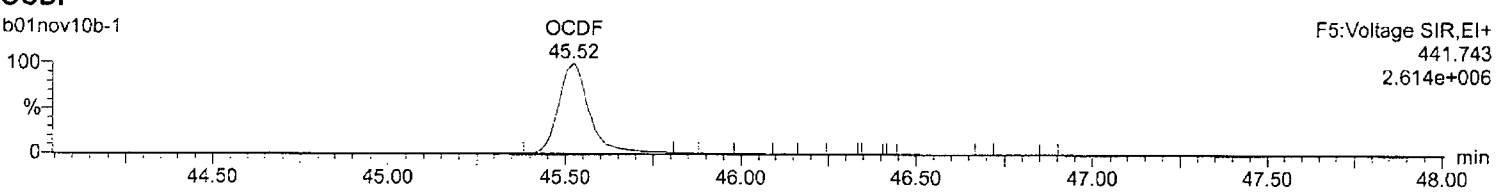
First HxCDF
b01nov10b-1



First HpCDF
b01nov10b-1



OCDF
b01nov10b-1



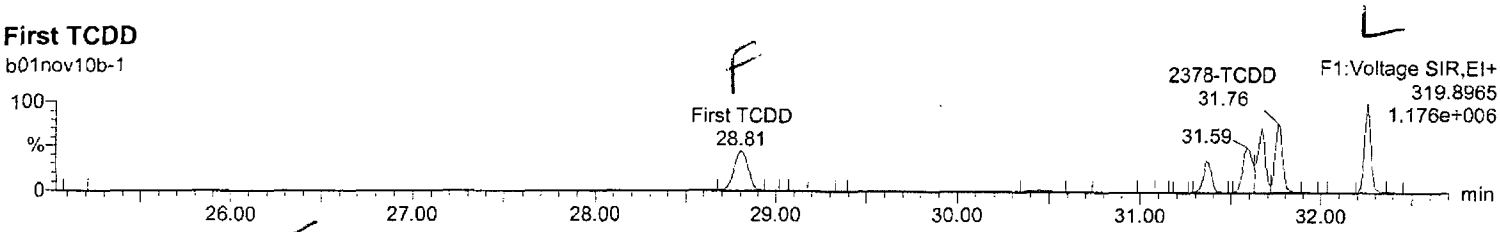
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b01nov10b-1.qld

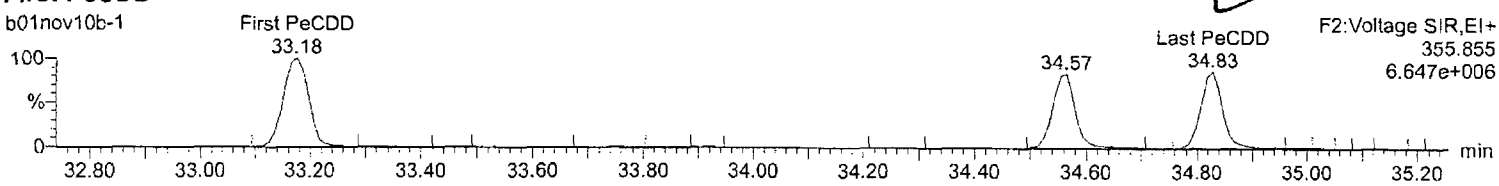
Last Altered: Tuesday, November 02, 2010 09:12:49 Eastern Standard Time
Printed: Tuesday, November 02, 2010 09:13:30 Eastern Standard Time

Name: b01nov10b-1, Date: 01-Nov-2010, Time: 17:33:30, ID: CS3WT UD100713-01.2, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

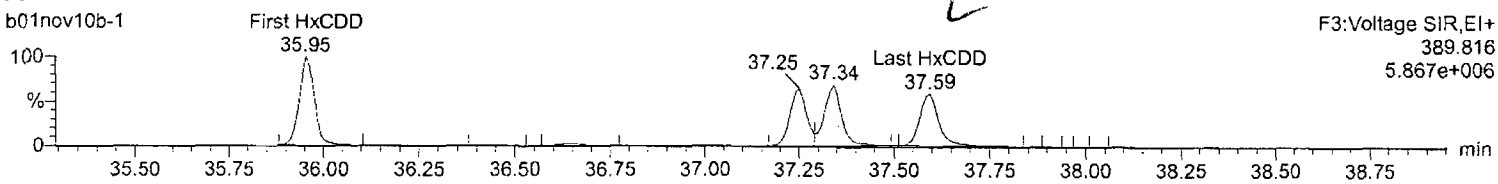
First TCDD



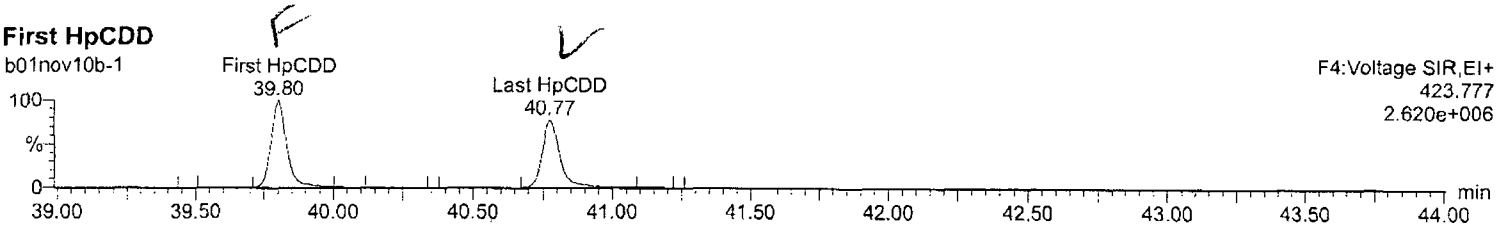
First PeCDD



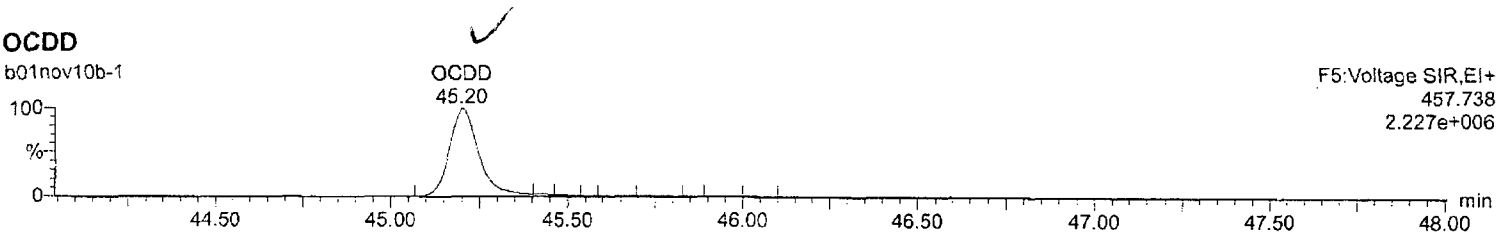
First HxCDD



First HpCDD



OCDD



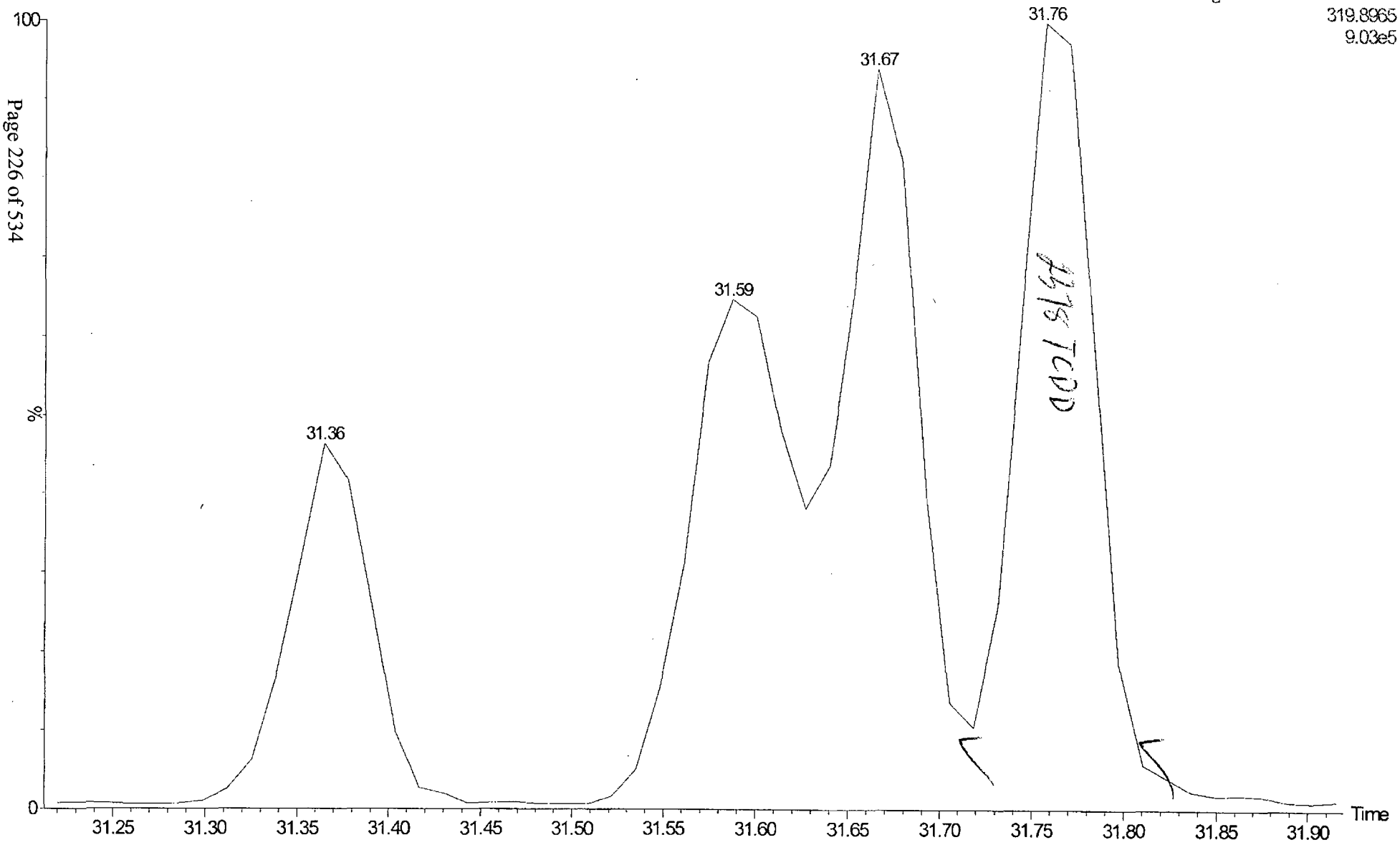
COLUMN CHECK (2378-TCDD 10%)

P763

01-Nov-2010 17:33:30

b01nov10b-1

1: Voltage SIR 13 Channels EI+
319.8965
9.03e5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:19:01

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	1.13e3	1.51e3	2.64e3	31.76	1.00	0.75	NO	0.270	1.094	0.0248	2.68e4	697	38.5	3.16e4	969	32.6	bb
2	12378-PeCDD	6.48e3	3.98e3	1.05e4	34.54	1.00	1.63	NO	1.209	0.998	0.0314	1.33e5	1153	115.2	8.67e4	825	105.2	bd
3	123478-HxCDD	5.02e3	4.17e3	9.19e3	37.24	1.00	1.21	NO	1.303	0.935	0.0533	9.90e4	1103	89.8	7.65e4	1108	69.1	bd
4	123678-HxCDD	5.24e3	4.17e3	9.41e3	37.33	1.00	1.26	NO	1.237	0.957	0.0494	9.55e4	1103	86.6	7.03e4	1108	63.4	dd
5	123789-HxCDD	4.93e3	3.56e3	8.50e3	37.57	1.01	1.38	NO	1.249	0.864	0.0553	8.74e4	1103	79.2	7.01e4	1108	63.3	bb
6	1234678-HpCDD	3.66e3	3.50e3	7.15e3	40.76	1.00	1.05	NO	1.192	0.958	0.0602	5.04e4	885	57.0	4.59e4	647	70.9	M...
7	OCDD	5.14e3	5.83e3	1.10e4	45.19	1.00	0.88	NO	2.321	0.924	0.126	5.72e4	1029	55.5	6.16e4	817	75.3	bd
8	2378-TCDF	1.86e3	2.22e3	4.08e3	31.22	1.00	0.84	NO	0.250	0.982	0.0208	3.29e4	689	47.7	3.48e4	1287	27.0	bb
9	12378-PeCDF	1.01e4	6.33e3	1.64e4	33.72	1.00	1.60	NO	1.180	0.882	0.0377	2.18e5	1674	130.2	1.36e5	2327	58.3	bd
10	23478-PeCDF	9.83e3	6.46e3	1.63e4	34.35	1.02	1.52	NO	1.195	0.874	0.0386	2.19e5	1674	131.0	1.45e5	2327	62.2	bd
11	123478-HxCDF	7.26e3	6.11e3	1.34e4	36.49	1.00	1.19	NO	1.233	0.896	0.0457	1.46e5	1728	84.7	1.16e5	1190	97.5	bd
12	123678-HxCDF	8.73e3	6.46e3	1.52e4	36.60	1.00	1.35	NO	1.204	1.019	0.0392	1.57e5	1728	90.7	1.19e5	1190	99.8	dd
13	234678-HxCDF	7.89e3	6.14e3	1.40e4	37.11	1.01	1.28	NO	1.230	0.940	0.0434	1.51e5	1728	87.2	1.18e5	1190	98.9	bb
14	123789-HxCDF	6.54e3	4.90e3	1.14e4	37.91	1.04	1.33	NO	1.212	0.767	0.0524	1.14e5	1728	66.2	9.19e4	1190	77.2	bd
15	1234678-HpCDF	6.02e3	5.91e3	1.19e4	39.45	1.00	1.02	NO	1.165	1.190	0.0447	9.33e4	1083	86.1	9.64e4	1157	83.4	bd
16	1234789-HpCDF	4.73e3	4.23e3	8.96e3	41.46	1.05	1.12	NO	1.202	0.894	0.0613	6.03e4	1083	55.7	5.79e4	1157	50.1	bd
17	OCDF	6.28e3	7.24e3	1.35e4	45.50	1.01	0.87	NO	2.313	1.140	0.277	6.37e4	1576	40.4	7.26e4	3441	21.1	M...
18	13C-2378-TCDD	4.26e5	5.39e5	9.65e5	31.75	1.01	0.79	NO	93.002	1.041	0.0751	8.79e6	3010	2919.1	1.09e7	1577	6901.0	bb
19	13C-12378-PeCDD	5.14e5	3.24e5	8.38e5	34.53	1.10	1.59	NO	95.212	0.905	0.0921	1.12e7	2977	3771.4	7.13e6	1794	3972.5	bb
20	13C-123678-HxCDD	4.27e5	3.59e5	7.87e5	37.31	0.99	1.19	NO	94.939	1.056	0.165	7.54e6	4859	1551.0	6.13e6	2481	2471.4	db
21	13C-1234678-HpCDD	3.08e5	2.90e5	5.97e5	40.74	1.08	1.06	NO	100.107	0.801	0.195	3.92e6	3705	1056.8	3.81e6	2534	1504.6	bb
22	13C-OCDD	4.49e5	5.00e5	9.49e5	45.17	1.20	0.90	NO	190.525	0.637	0.306	4.18e6	3823	1092.7	4.68e6	4344	1076.9	bd
23	13C-2378-TCDF	7.32e5	9.31e5	1.66e6	31.21	1.00	0.79	NO	98.526	1.794	0.0318	1.27e7	1351	9422.3	1.60e7	1810	8852.2	bb
24	13C-12378-PeCDF	9.14e5	5.77e5	1.49e6	33.71	1.08	1.58	NO	95.028	1.608	0.139	2.09e7	6621	3152.8	1.33e7	6201	2136.9	bd
25	13C-123678-HxCDF	4.08e5	7.85e5	1.19e6	36.59	0.97	0.52	NO	98.204	1.601	0.158	7.22e6	4623	1561.0	1.36e7	5684	2394.5	dd
26	13C-1234678-HpCDF	2.47e5	5.55e5	8.02e5	39.44	1.05	0.45	NO	99.554	1.076	0.193	3.63e6	3284	1106.2	8.13e6	5074	1602.3	bd
27	13C-1234-TCDD	4.12e5	5.15e5	9.27e5	31.34	0.00	0.80	NO	100.000	1.000	0.0841	7.27e6	3010	2413.9	9.15e6	1577	5800.4	bb
28	13C-123789-HxCDD	4.04e5	3.41e5	7.45e5	37.56	0.00	1.18	NO	100.000	1.000	0.184	6.50e6	4859	1338.1	5.20e6	2481	2093.6	bb
29	37Cl-2378-TCDD (SS)	2.68e3		2.68e3	31.76	1.00			0.263	1.110	0.0207	6.33e4	1449	43.7				bb
30	13C-23478-PeCDF (SS)	8.57e5	5.41e5	1.40e6	34.34	1.02	1.58	NO	100.531	0.938	0.121	2.00e7	6621	3027.8	1.26e7	6201	2038.8	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

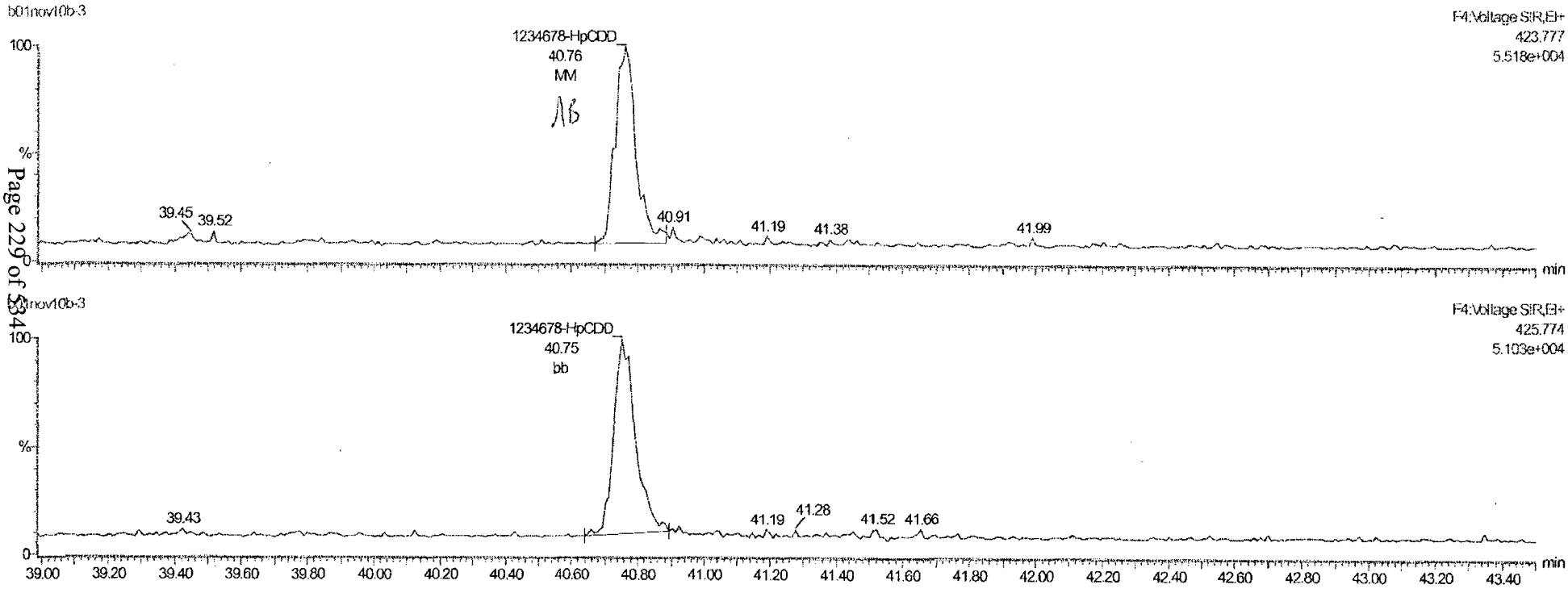
Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	13C-123478-HxCDF (SS)	3.39e5	6.56e5	9.95e5	36.48	1.00	0.52	NO	102.985	0.834	0.181	6.76e6	4623	1462.7	1.32e7	5684	2317.1	bd
	13C-123478-HxCDD (SS)	3.98e5	3.12e5	7.10e5	37.22	1.00	1.28	NO	104.877	0.903	0.184	7.82e6	4859	1610.2	5.96e6	2481	2401.9	bd
33	13C-1234789-HpCDF (SS)	1.80e5	4.18e5	5.98e5	41.45	1.05	0.43	NO	98.678	0.746	0.281	2.25e6	3284	685.7	5.07e6	5074	999.8	bb

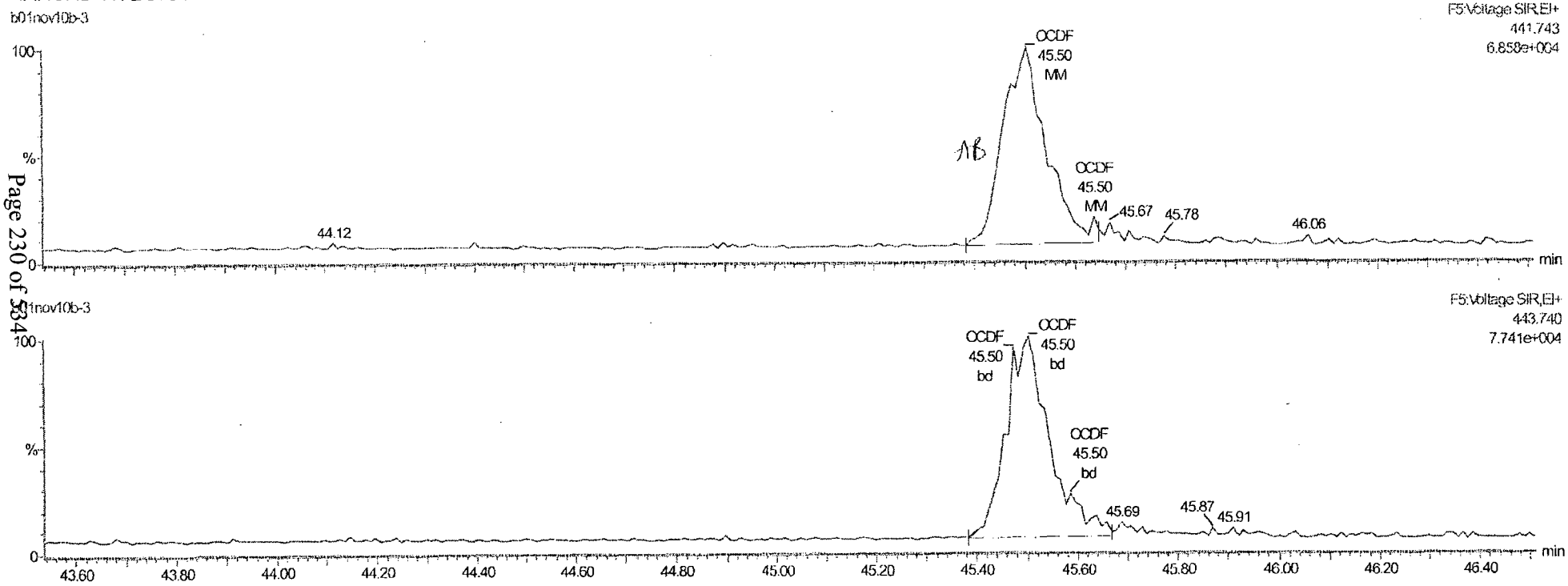
MANUAL INTEGRATION



HMP 02Nov10

lu
3Nov10

MANUAL INTEGRATION



HMP 02Nov10

Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

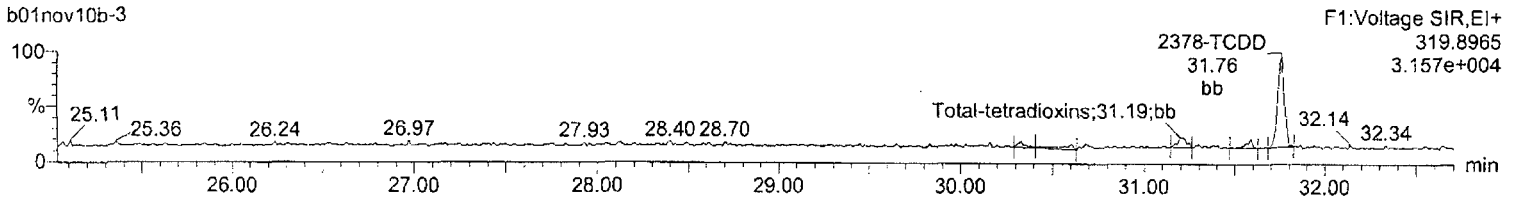
Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

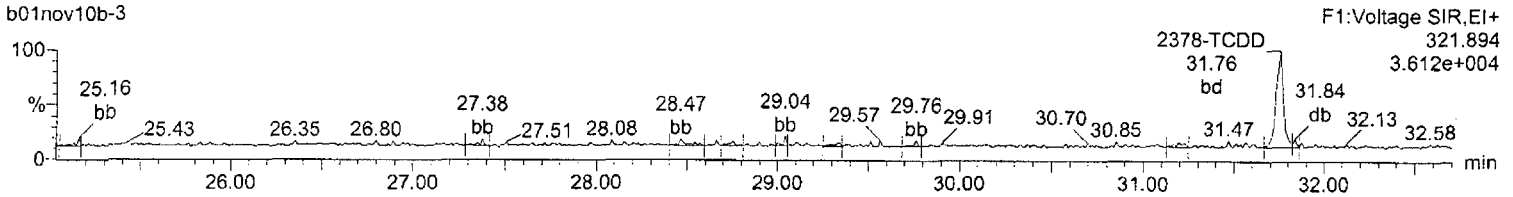
Method: Untitled 19 Oct 2010 08:35:07
Calibration: 02 Nov 2010 08:16:43

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

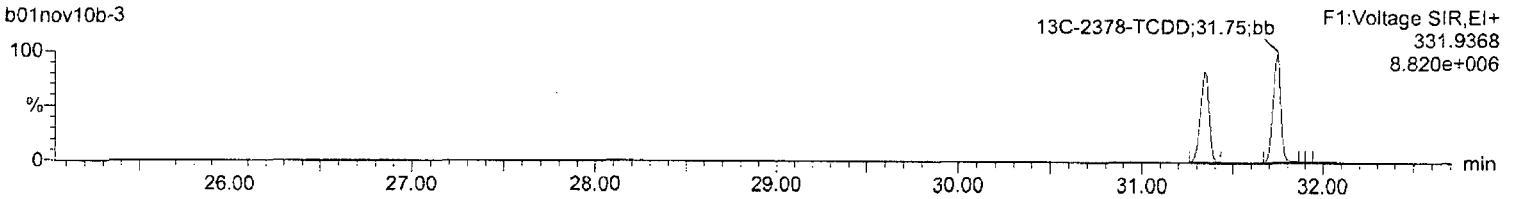
Total-tetradioxins



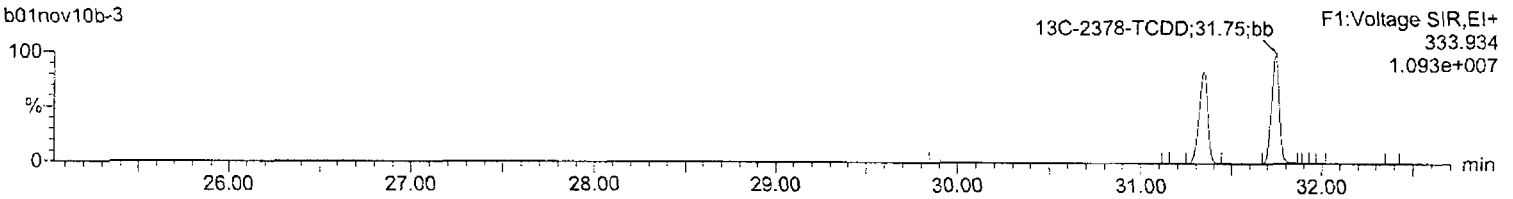
Total-tetradioxins



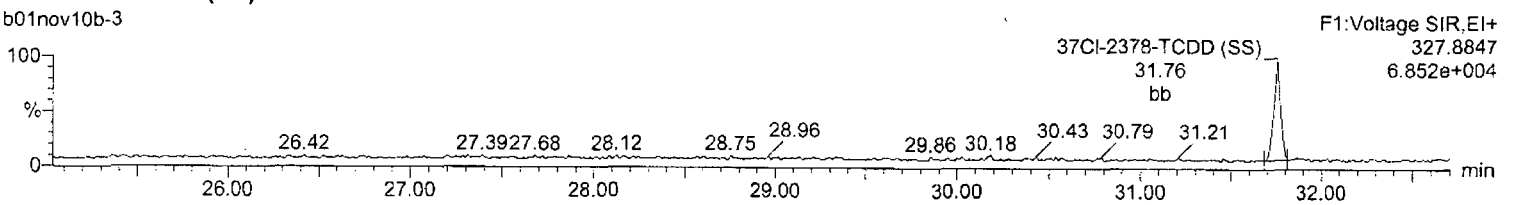
13C-2378-TCDD



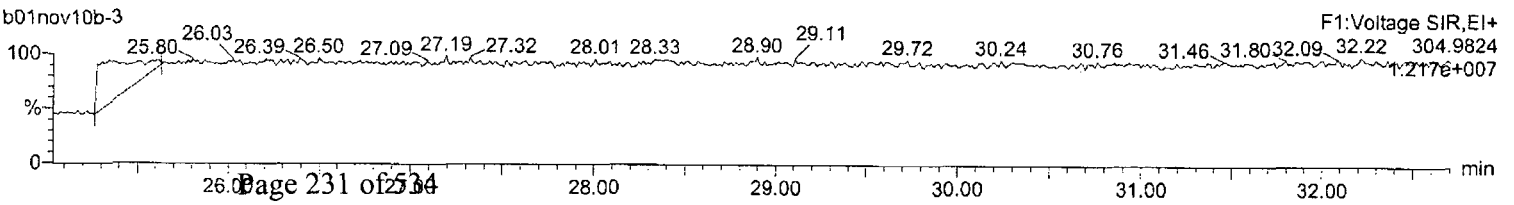
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



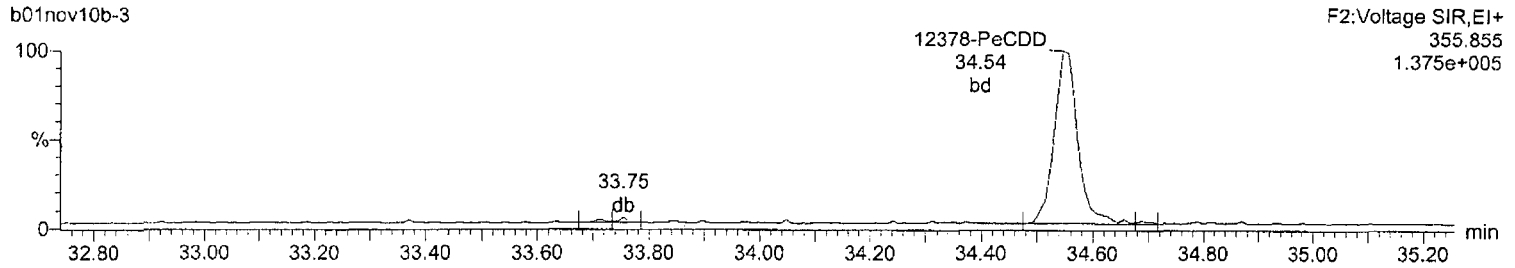
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

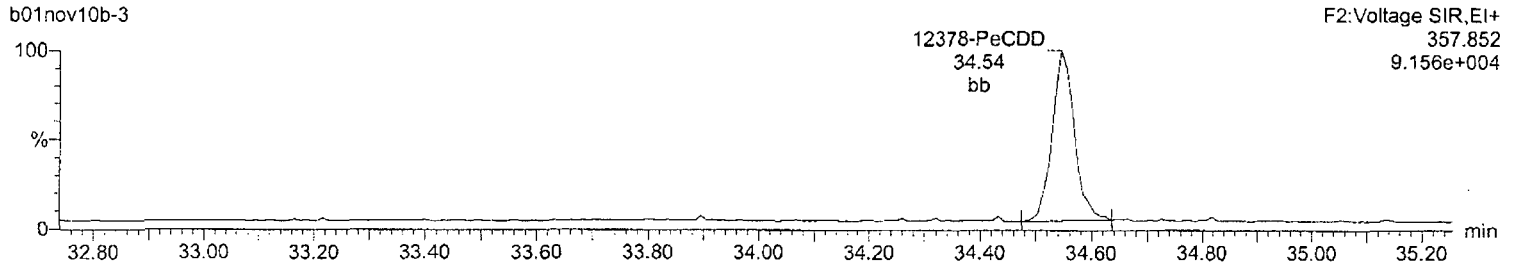
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

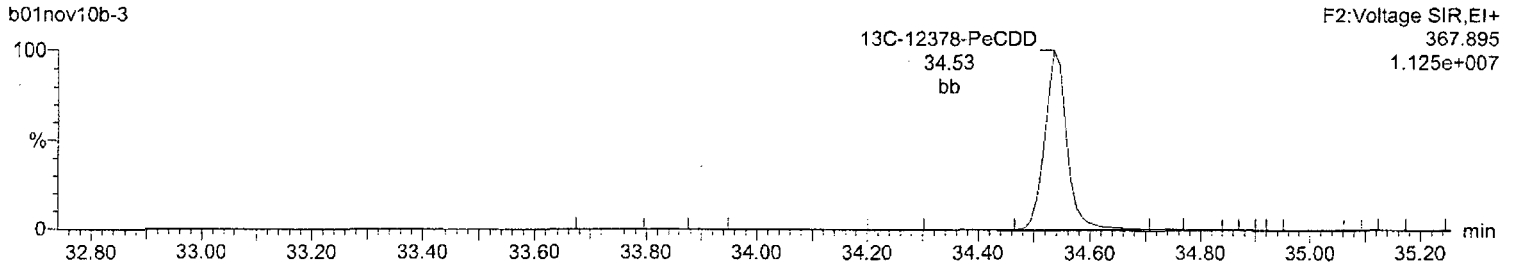
Total-pentadioxins



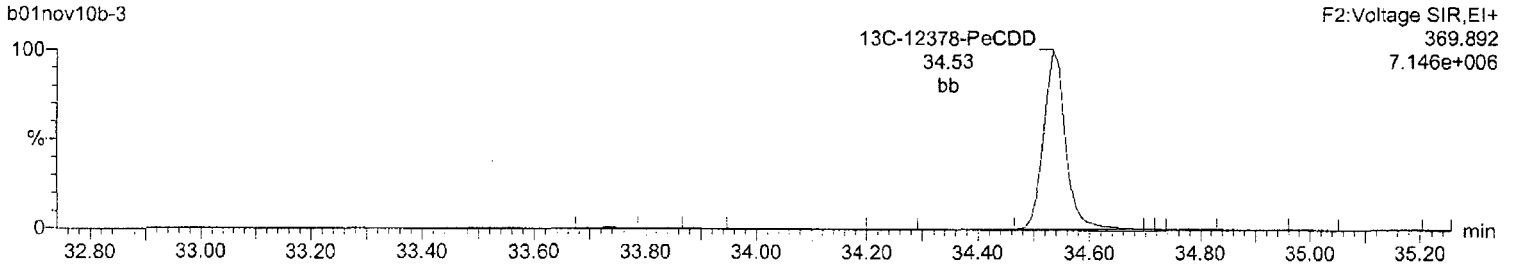
Total-pentadioxins



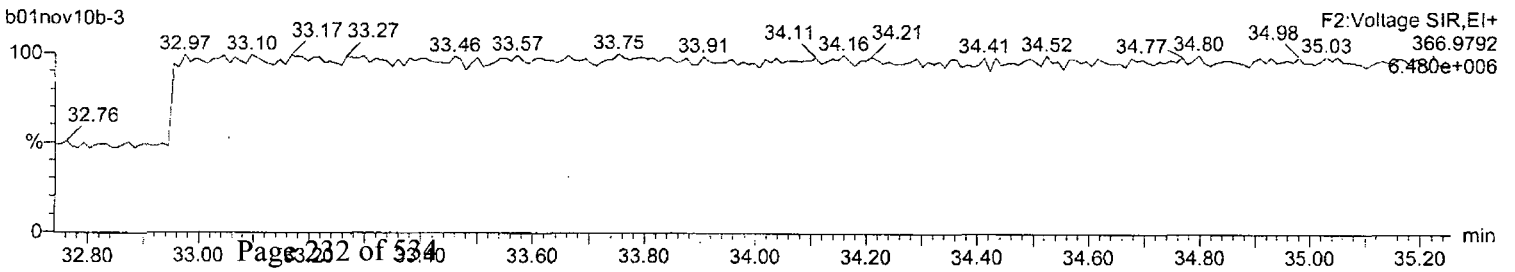
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



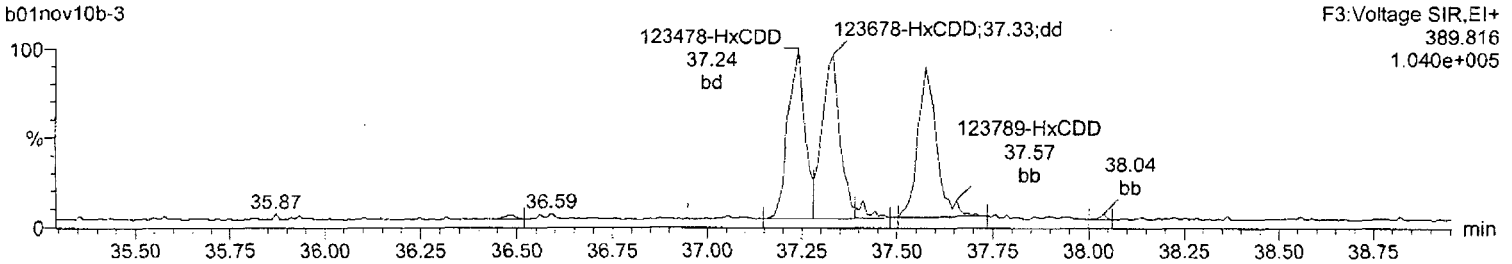
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

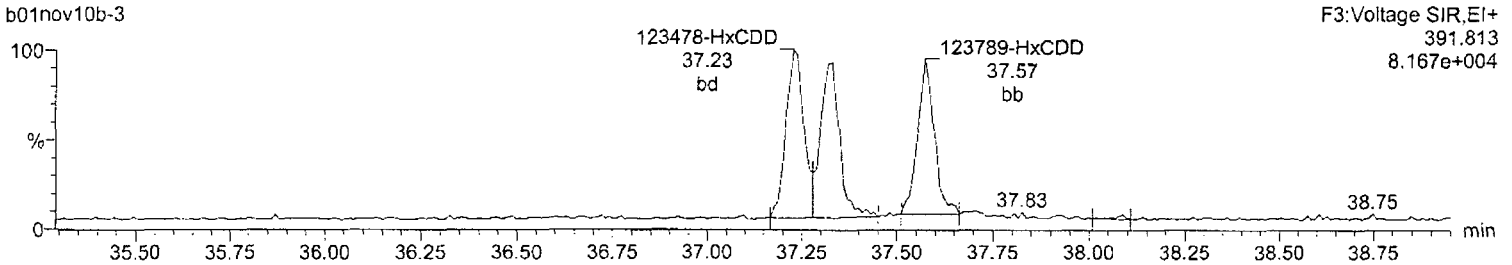
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

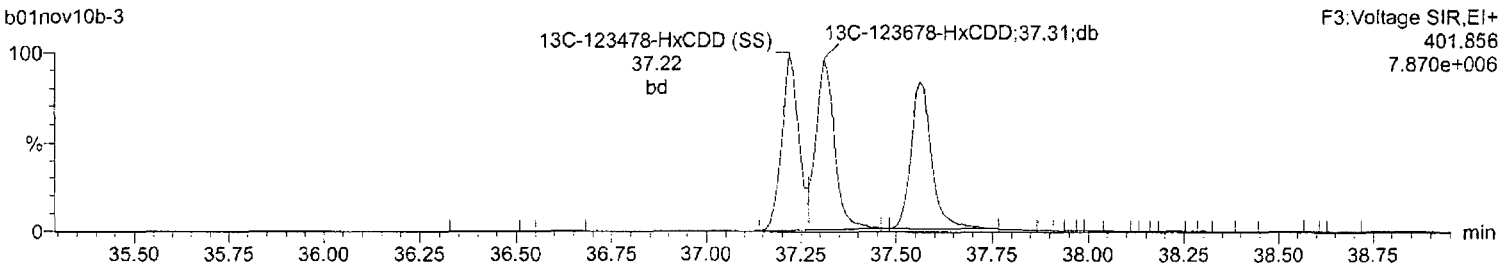
Total-hexadioxins



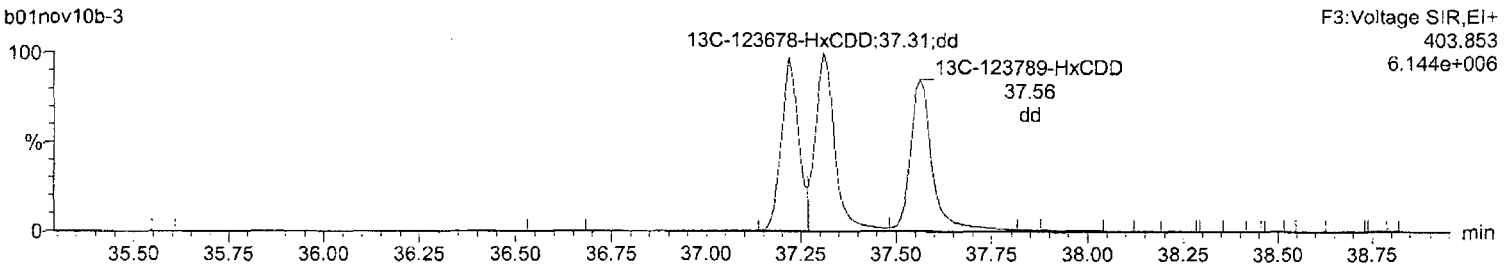
Total-hexadioxins



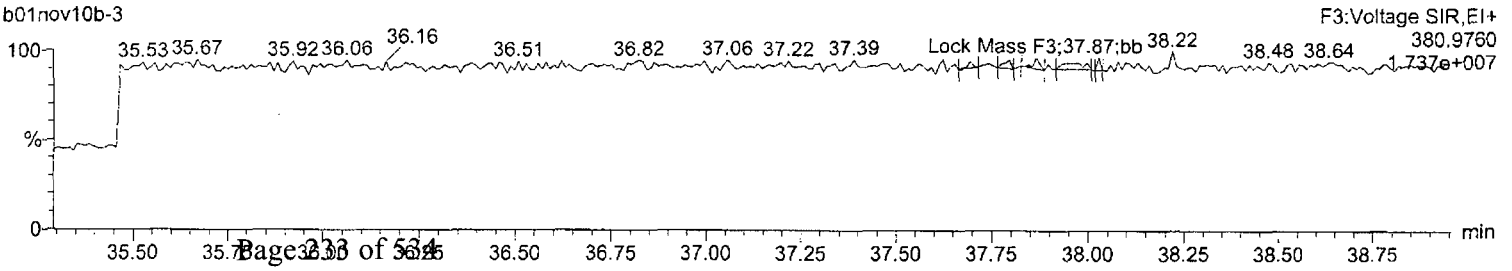
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



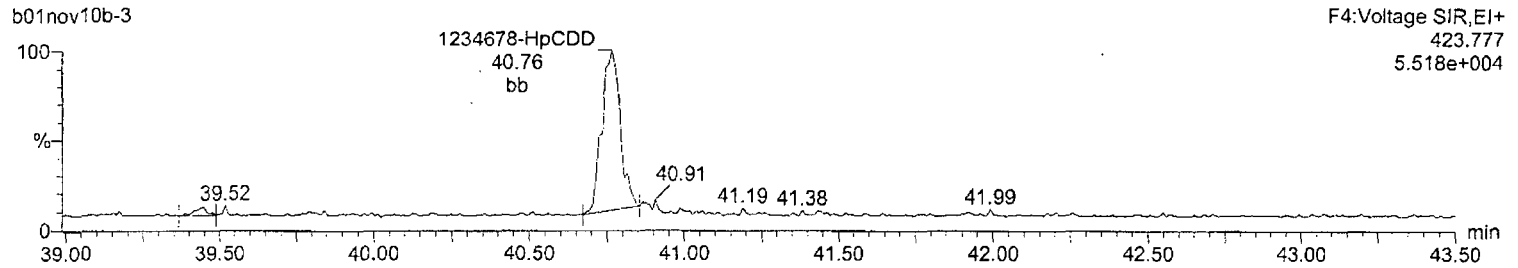
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

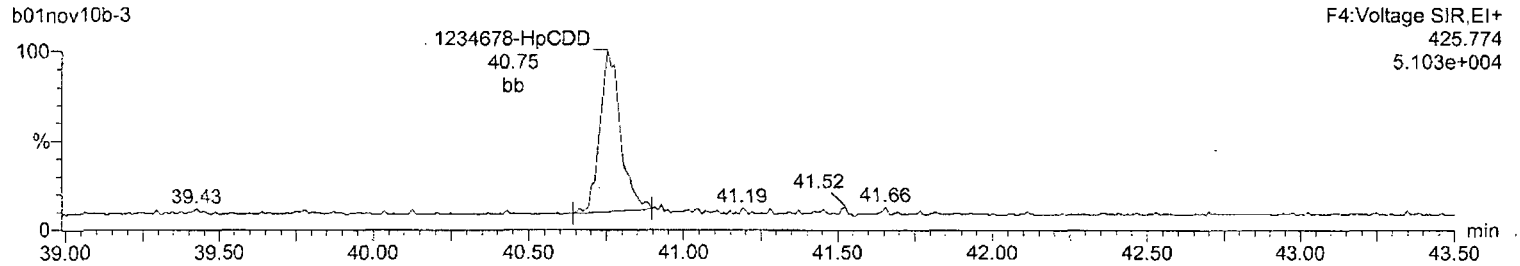
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

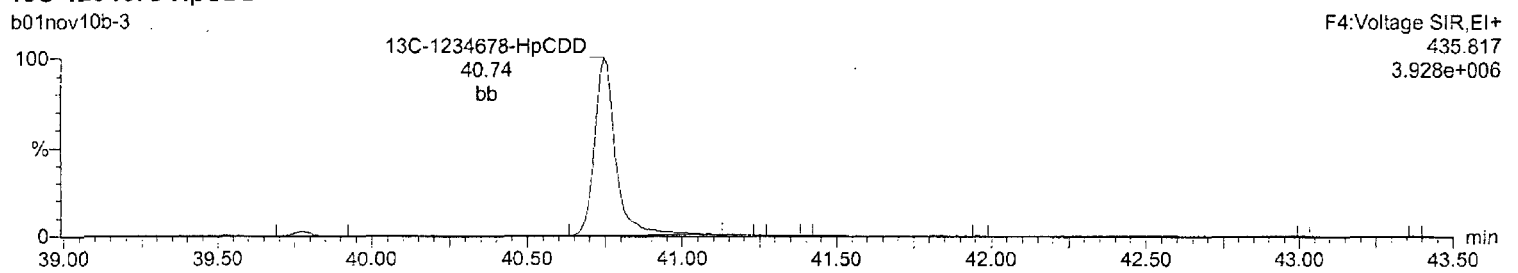
Total-heptadioxins



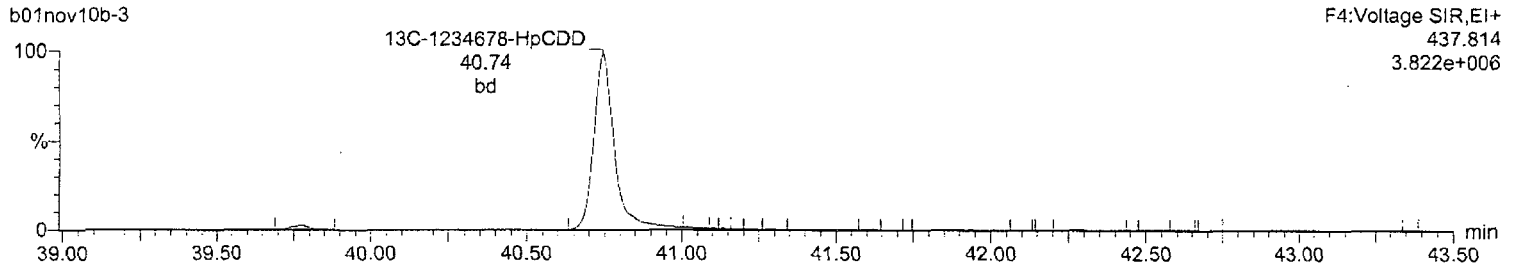
Total-heptadioxins



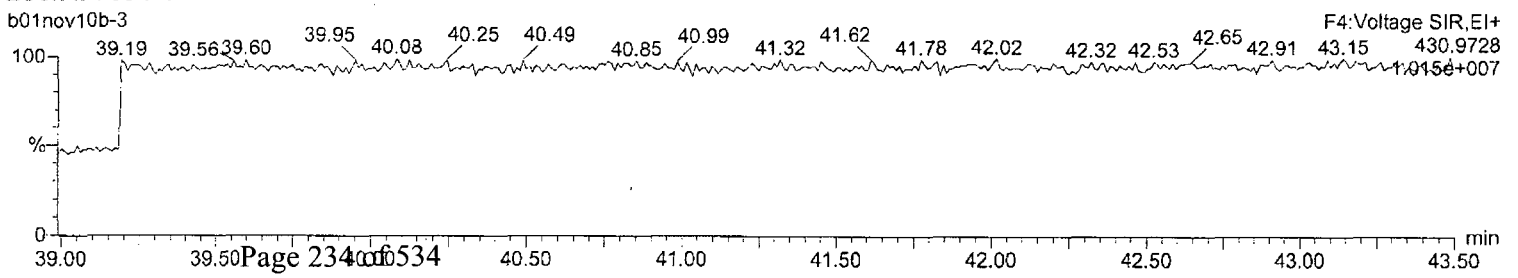
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



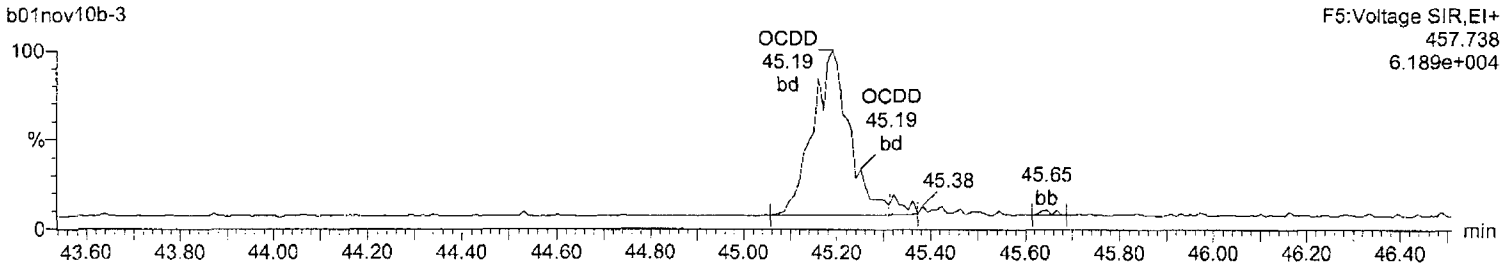
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

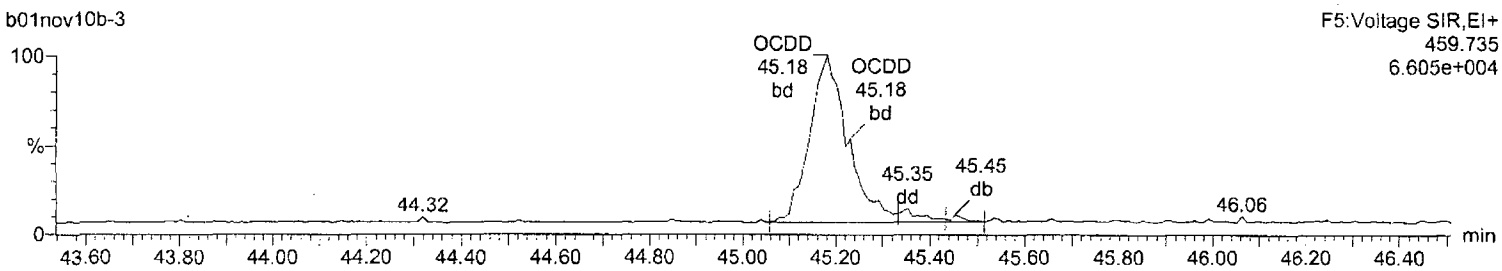
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

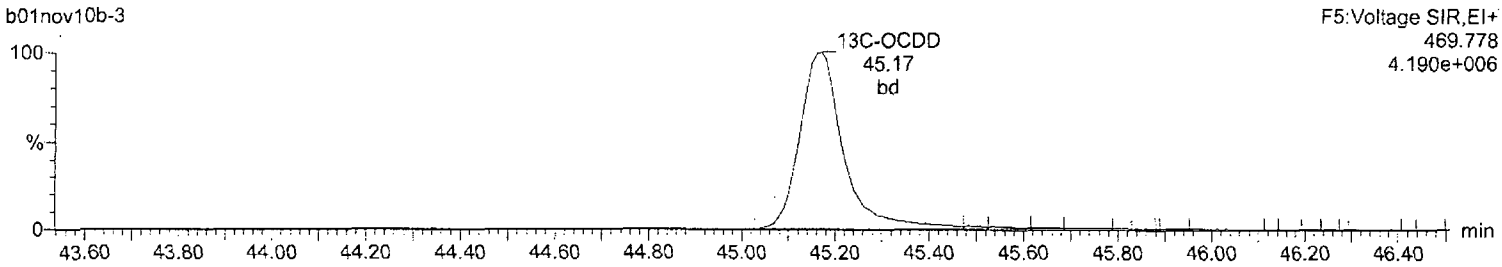
OCDD



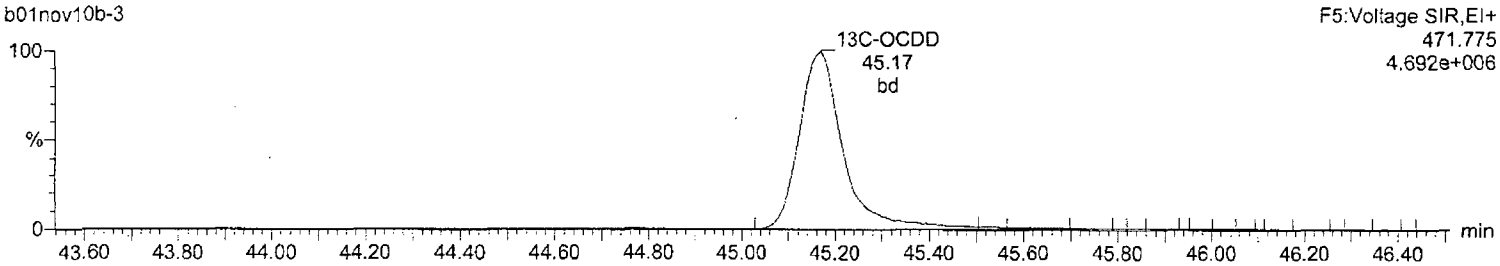
OCDD



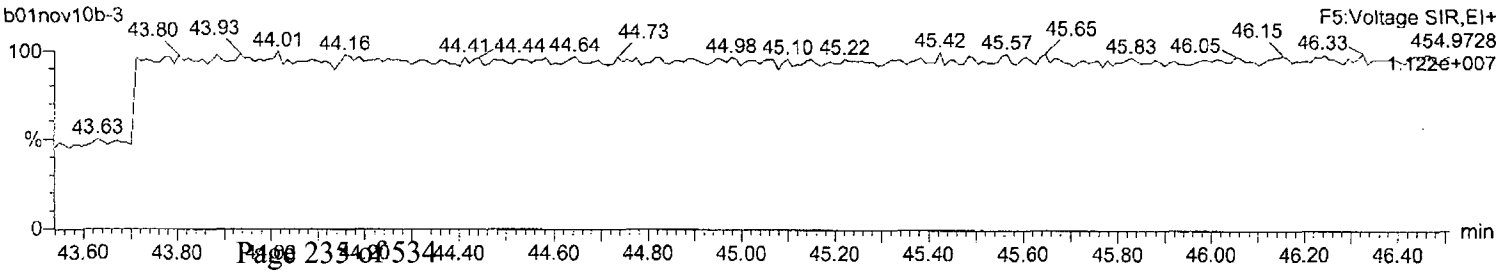
13C-OCDD



13C-OCDD



Lock Mass F5



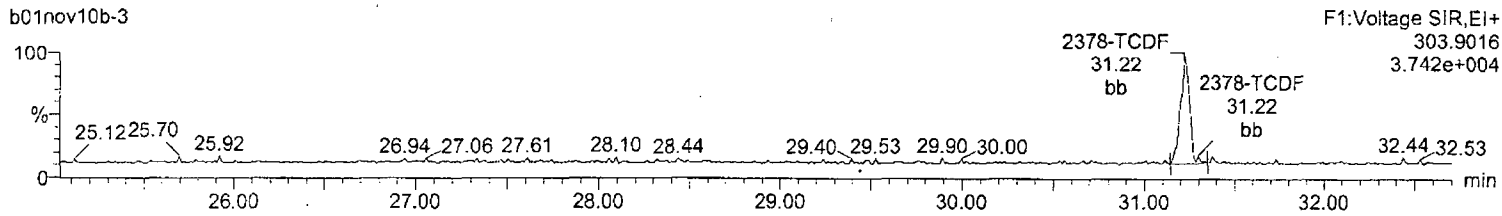
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

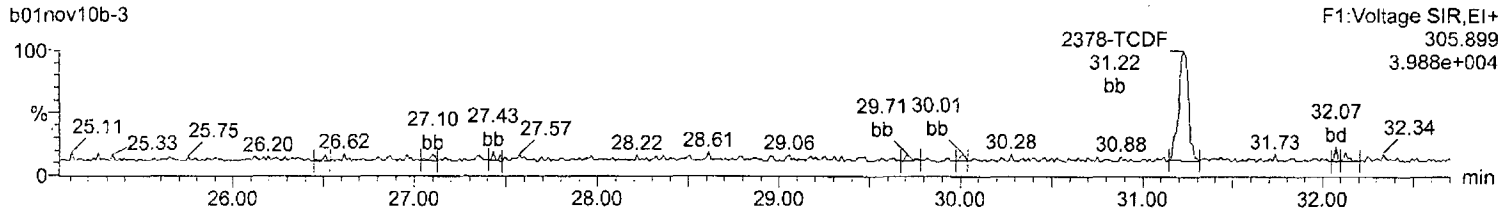
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

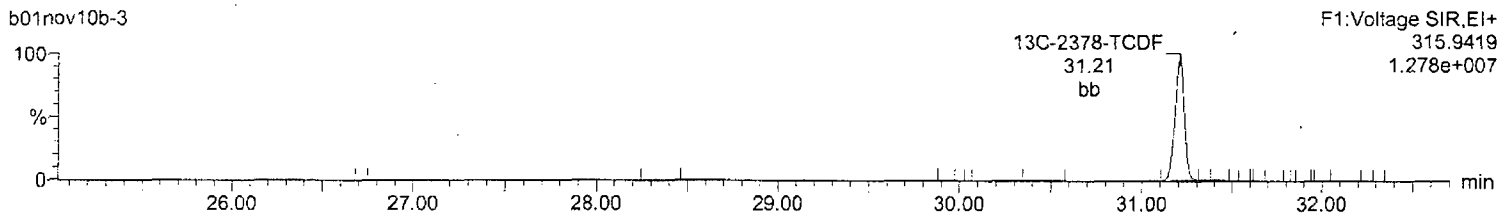
Total-tetrafurans



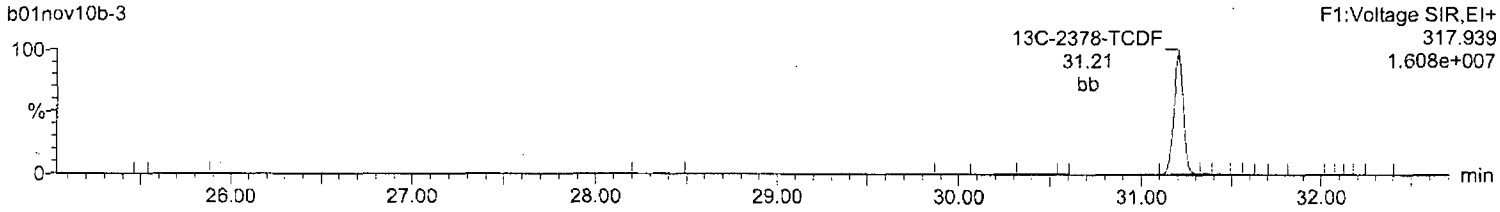
Total-tetrafurans



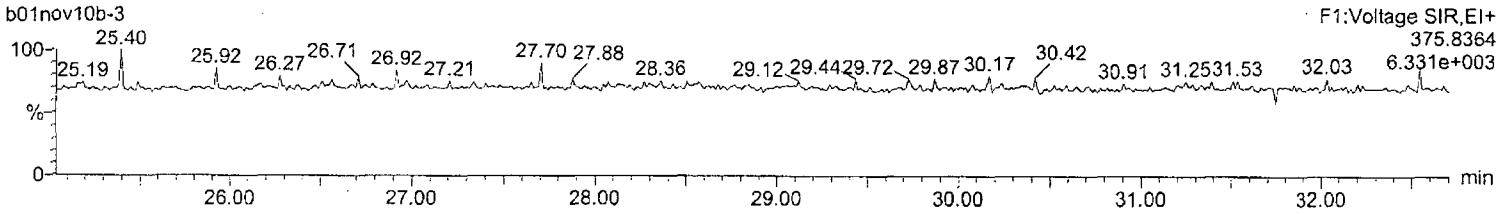
13C-2378-TCDF



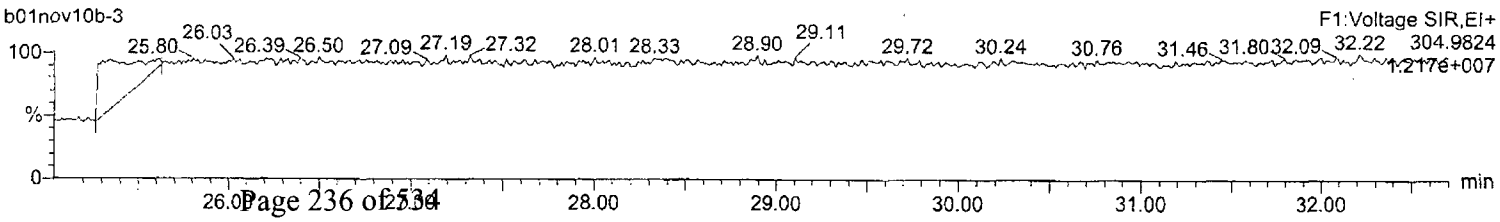
13C-2378-TCDF



HxDPE



Lock Mass F1



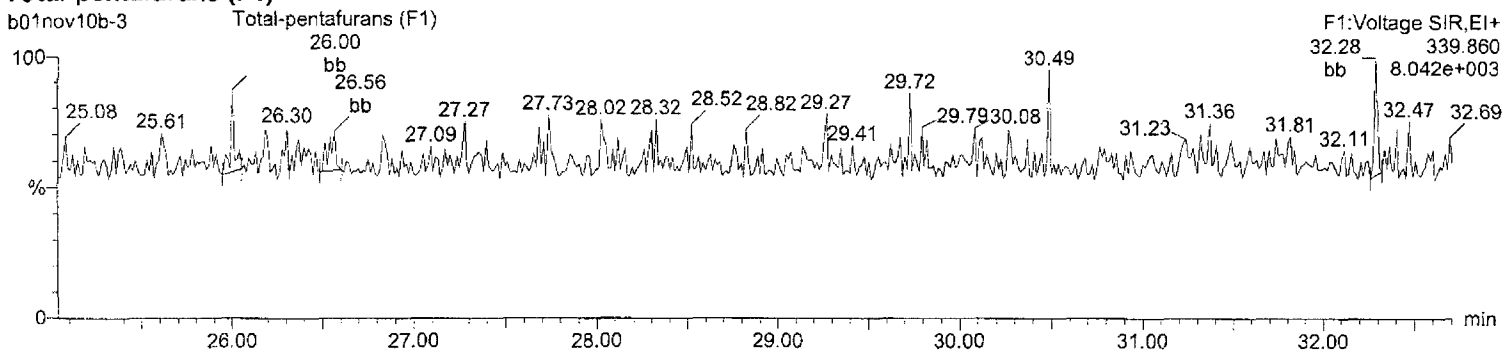
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

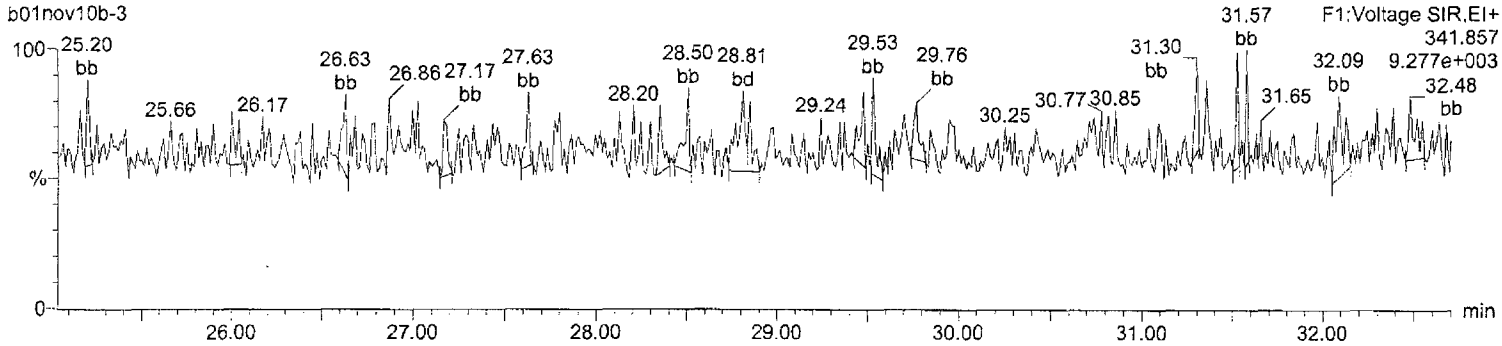
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

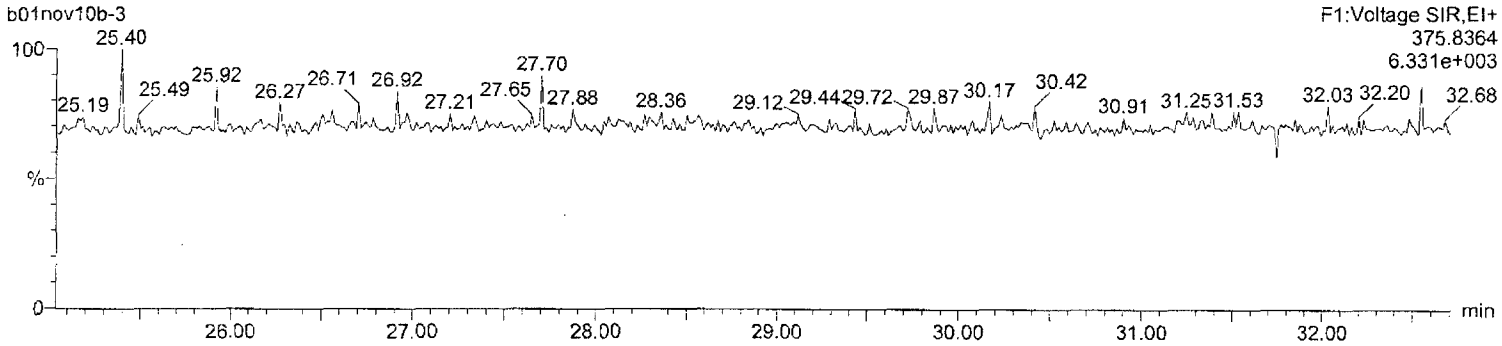
Total-pentafurans (F1)



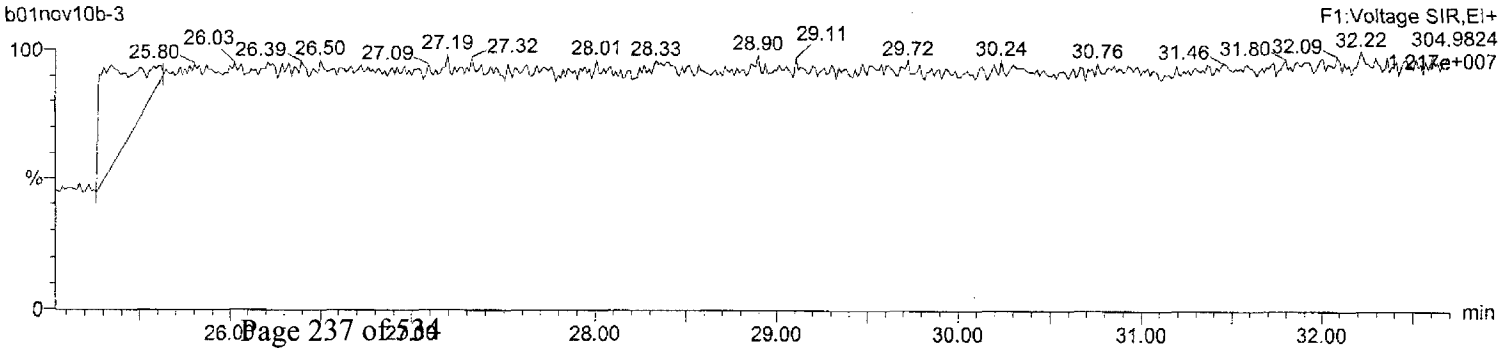
Total-pentafurans (F1)



HxDPE



Lock Mass F1



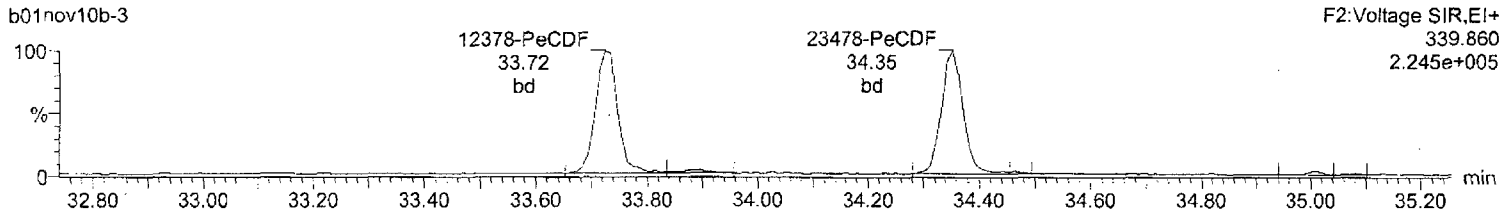
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

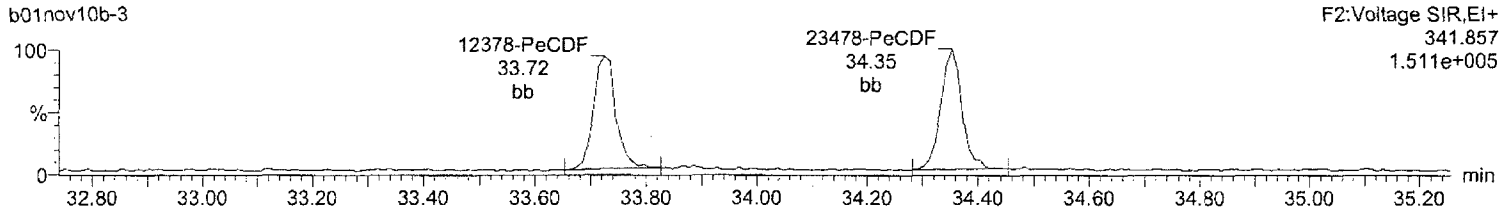
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

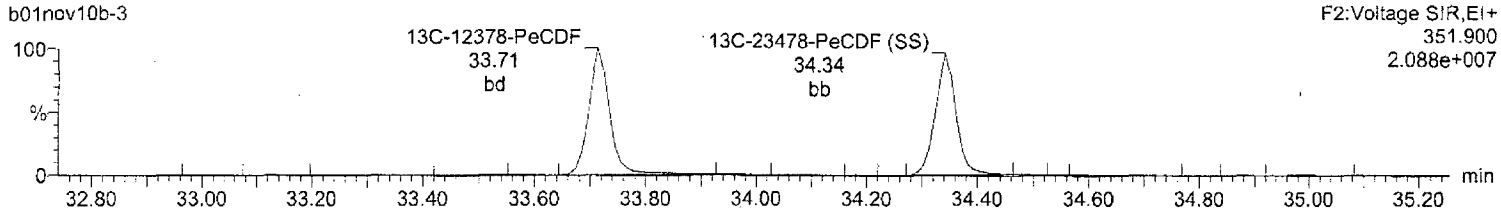
Total-pentafurans



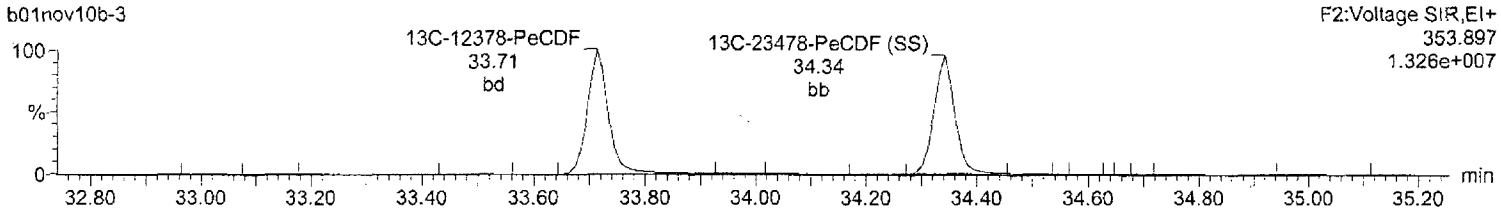
Total-pentafurans



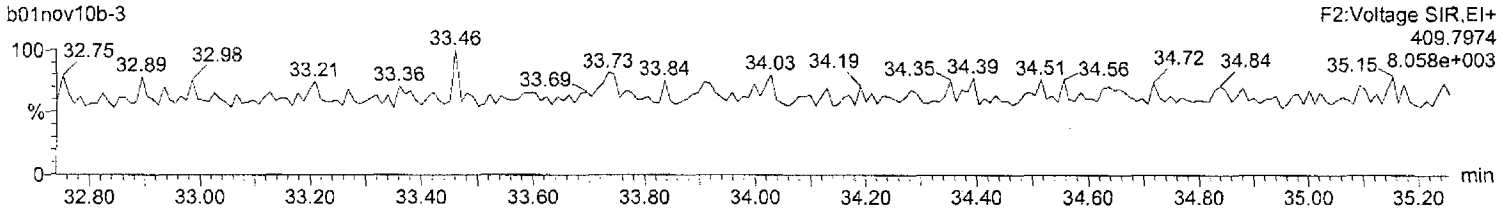
13C-12378-PeCDF



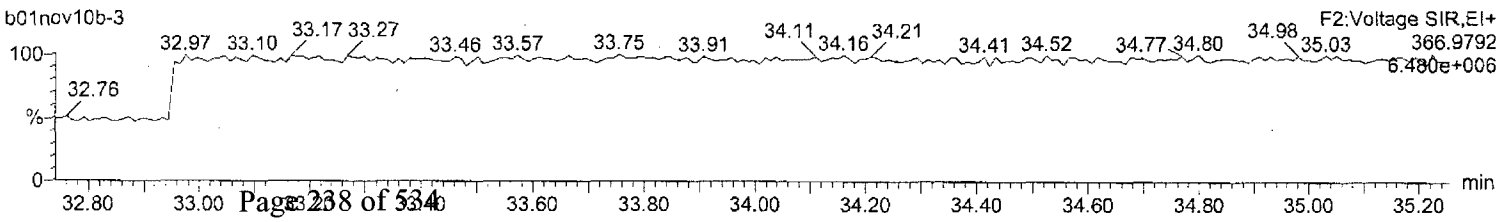
13C-12378-PeCDF



HpDPE



Lock Mass F2



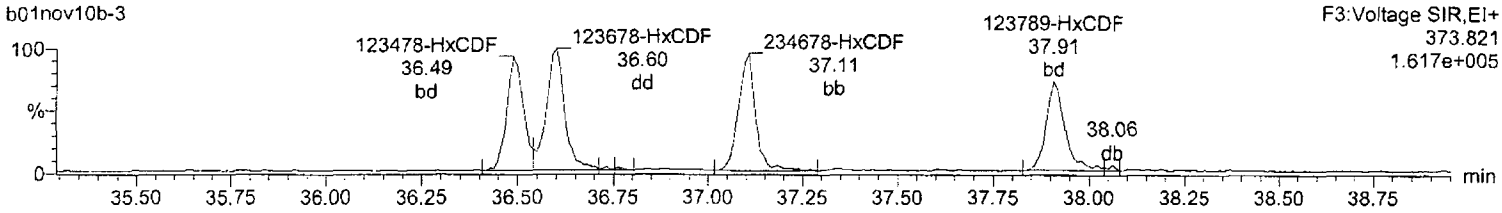
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

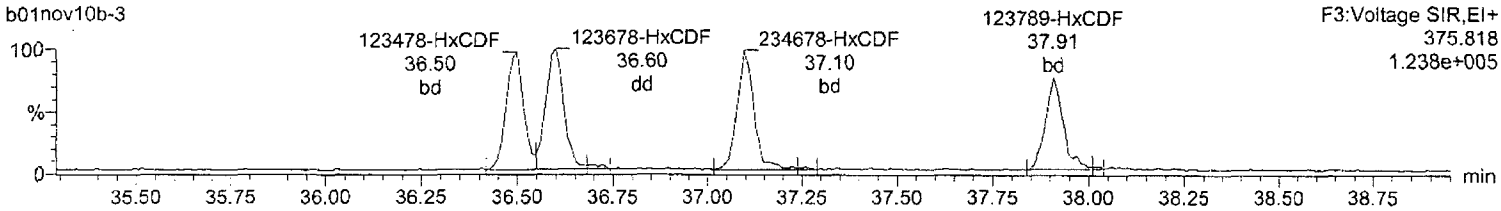
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

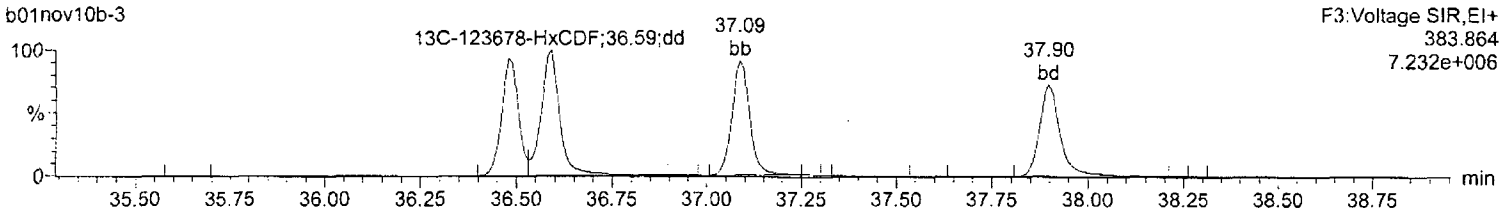
Total-hexafurans



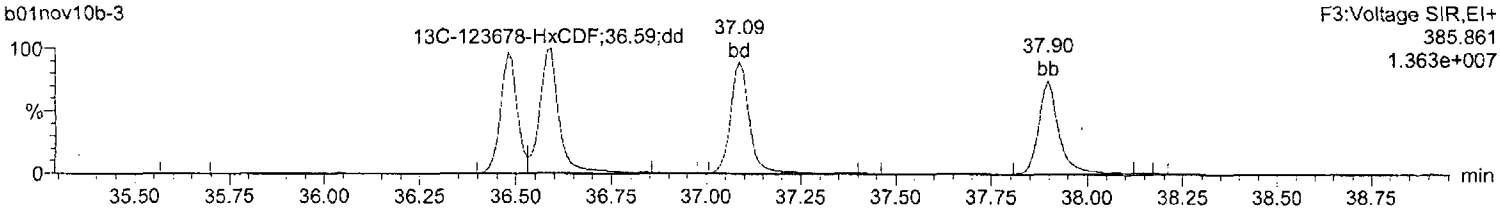
Total-hexafurans



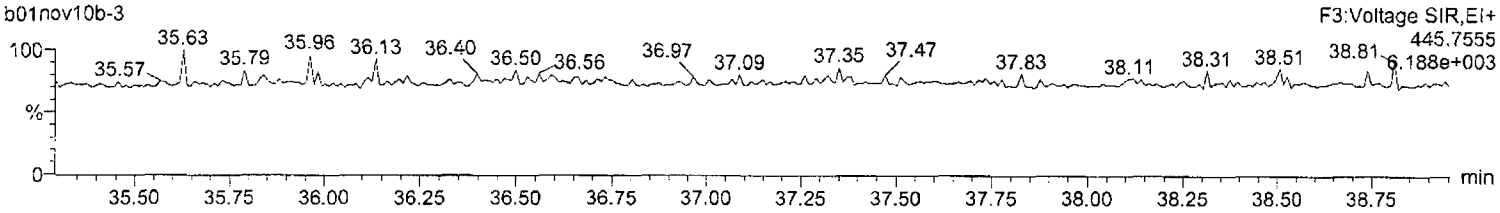
13C-123678-HxCDF



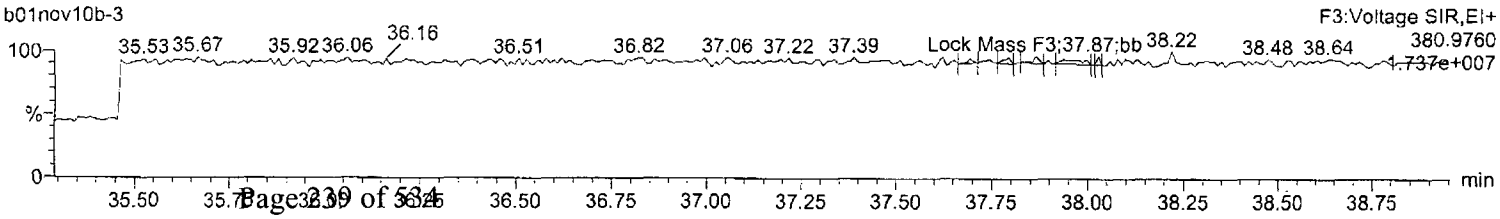
13C-123678-HxCDF



OcDPE



Lock Mass F3



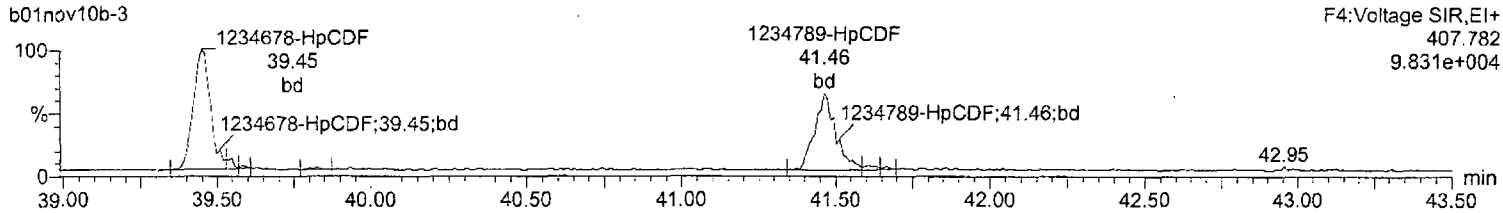
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

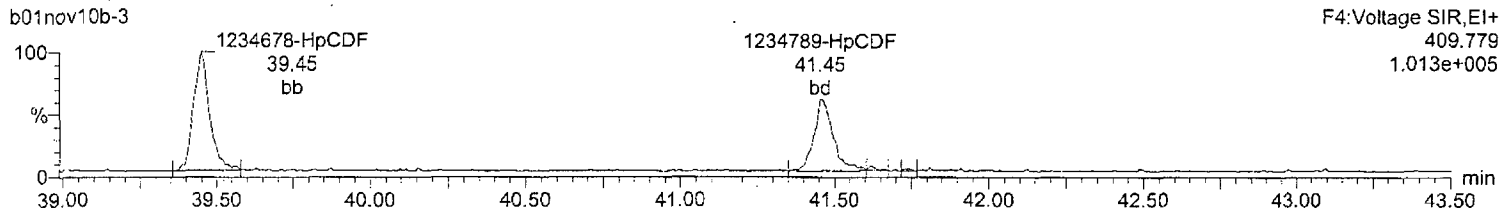
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

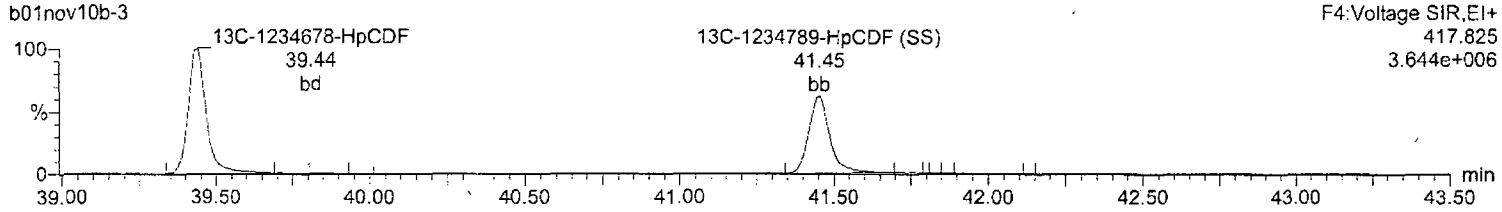
Total-heptafurans



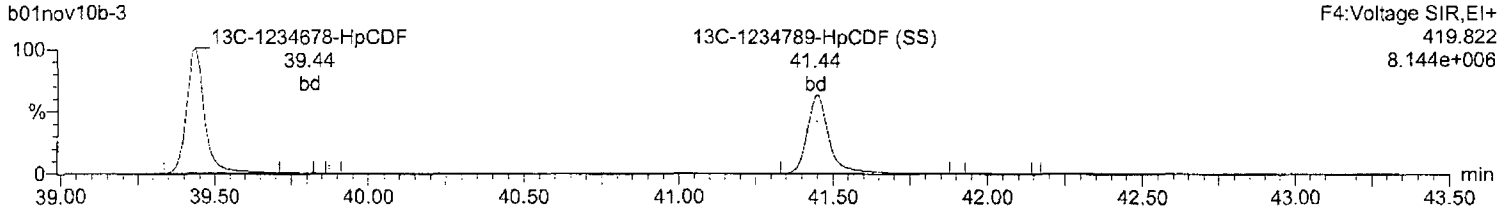
Total-heptafurans



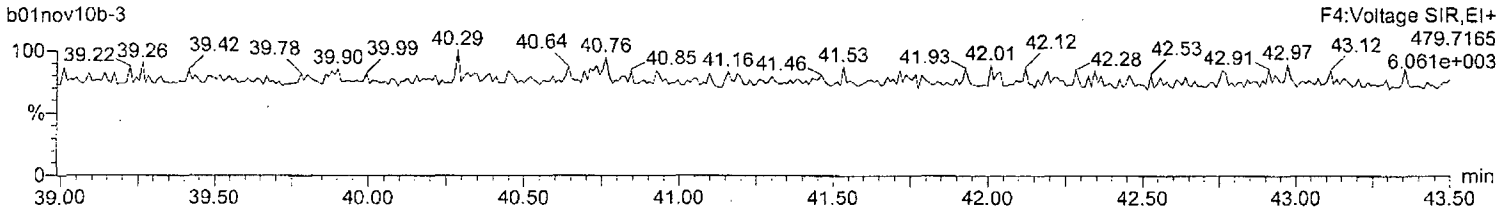
13C-1234678-HpCDF



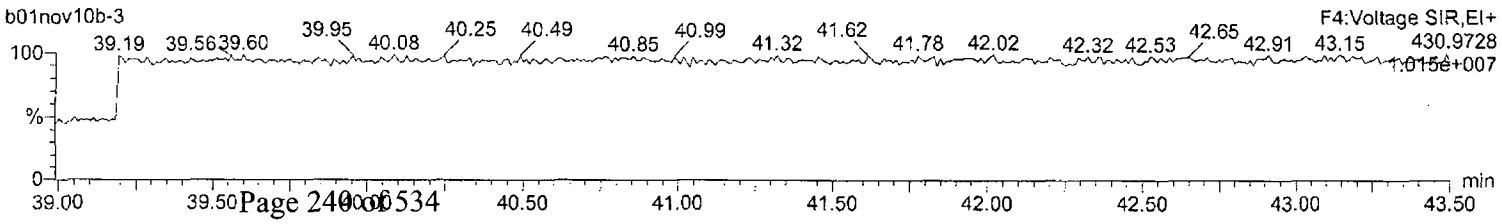
13C-1234678-HpCDF



NoDPE



Lock Mass F4



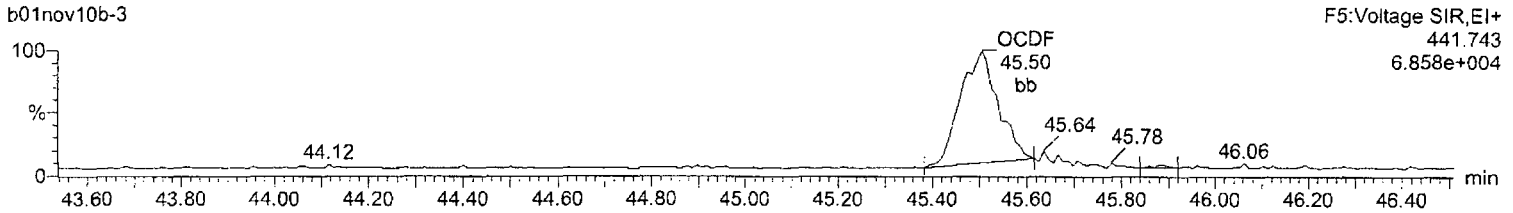
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

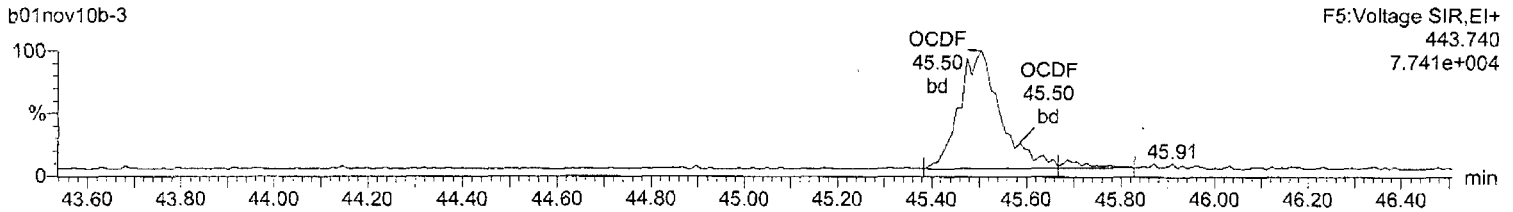
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-3, Date: 01-Nov-2010, Time: 19:16:15, ID: CS0.5 UD101022-01, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

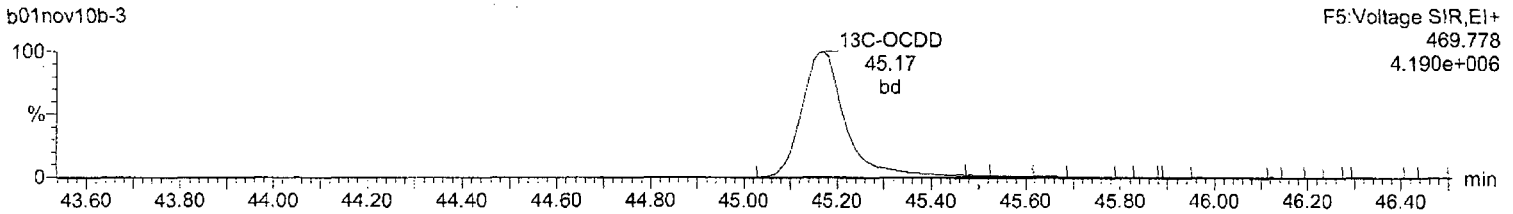
OCDF



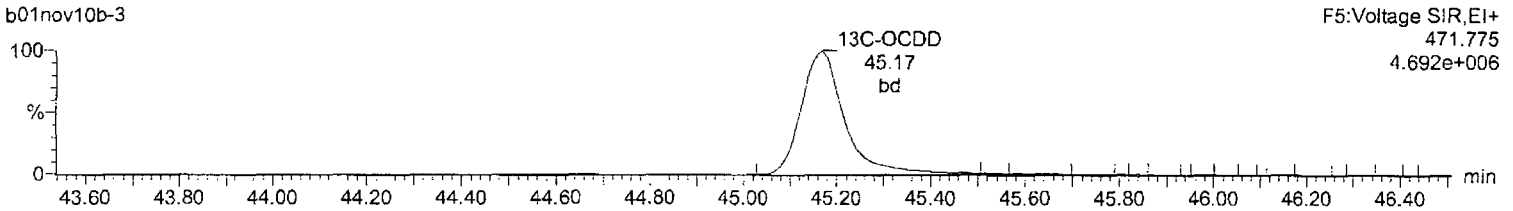
OCDF



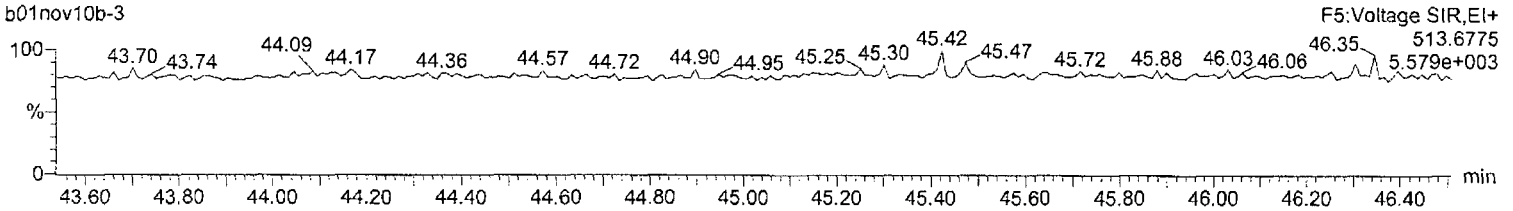
13C-OCDD



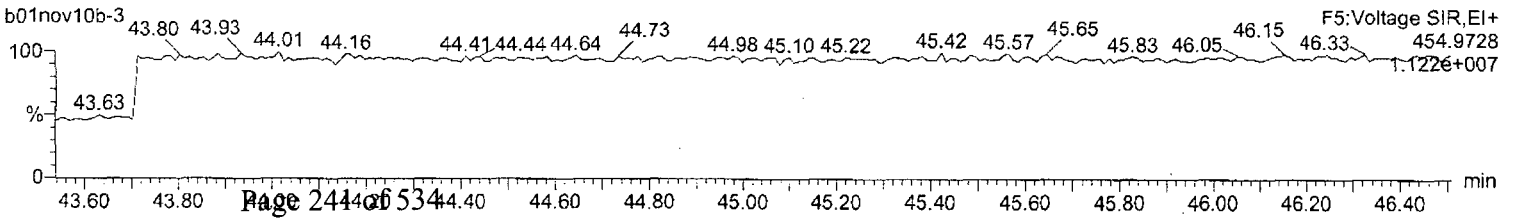
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/ul	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	2.34e3	2.88e3	5.21e3	31.76	1.00	0.81	NO	0.457	0.926	0.0225	4.38e4	774	56.6	5.99e4	988	60.6	bb
	12378-PeCDD	1.31e4	8.13e3	2.12e4	34.56	1.00	1.61	NO	2.367	0.977	0.0466	2.74e5	1357	202.2	1.68e5	1475	113.6	bb
3	123478-HxCDD	9.88e3	8.07e3	1.79e4	37.23	1.00	1.22	NO	2.387	0.856	0.0560	1.93e5	1232	156.3	1.45e5	1244	116.8	bd
4	123678-HxCDD	1.10e4	8.53e3	1.95e4	37.33	1.00	1.29	NO	2.409	0.932	0.0519	1.91e5	1232	154.8	1.50e5	1244	120.8	dd
5	123789-HxCDD	9.57e3	7.41e3	1.70e4	37.58	1.01	1.29	NO	2.339	0.810	0.0580	1.62e5	1232	131.2	1.34e5	1244	107.8	bb
6	1234678-HpCDD	7.24e3	7.20e3	1.44e4	40.77	1.00	1.01	NO	2.380	0.957	0.0782	9.17e4	1195	76.7	9.16e4	844	108.5	bd
7	OCDD	1.06e4	1.23e4	2.28e4	45.19	1.00	0.86	NO	4.682	0.932	0.151	1.10e5	774	142.1	1.24e5	1545	80.4	bd
8	2378-TCDF	3.44e3	4.69e3	8.13e3	31.22	1.00	0.73	NO	0.474	0.932	0.0187	5.54e4	663	83.5	7.56e4	1197	63.1	bb
9	12378-PeCDF	2.13e4	1.35e4	3.48e4	33.72	1.00	1.58	NO	2.412	0.901	0.0421	4.80e5	1343	357.0	3.16e5	3194	99.1	bd
10	23478-PeCDF	2.03e4	1.31e4	3.34e4	34.35	1.02	1.55	NO	2.368	0.866	0.0430	4.57e5	1343	340.2	3.11e5	3194	97.4	bb
11	123478-HxCDF	1.54e4	1.23e4	2.77e4	36.49	1.00	1.25	NO	2.451	0.891	0.0586	2.91e5	2063	141.0	2.38e5	1525	156.0	bd
12	123678-HxCDF	1.70e4	1.39e4	3.09e4	36.60	1.00	1.22	NO	2.350	0.994	0.0503	3.10e5	2063	150.5	2.57e5	1525	168.6	dd
13	234678-HxCDF	1.58e4	1.25e4	2.83e4	37.11	1.01	1.27	NO	2.378	0.909	0.0557	2.78e5	2063	134.7	2.20e5	1525	143.9	bd
14	123789-HxCDF	1.33e4	1.04e4	2.36e4	37.92	1.04	1.28	NO	2.398	0.759	0.0672	2.03e5	2063	98.5	1.68e5	1525	110.3	bb
15	1234678-HpCDF	1.29e4	1.18e4	2.47e4	39.45	1.00	1.09	NO	2.339	1.195	0.0467	1.90e5	1061	178.9	1.75e5	1400	125.3	bb
16	1234789-HpCDF	8.72e3	8.95e3	1.77e4	41.46	1.05	0.97	NO	2.296	0.854	0.0641	1.24e5	1061	116.6	1.21e5	1400	86.3	bd
17	OCDF	1.24e4	1.37e4	2.61e4	45.51	1.01	0.91	NO	4.326	1.066	0.127	1.24e5	1141	108.8	1.40e5	1268	110.1	bd
18	13C-2378-TCDD	4.96e5	6.29e5	1.12e6	31.75	1.01	0.79	NO	102.228	1.145	0.0616	1.02e7	2533	4041.6	1.26e7	1591	7914.0	bb
19	13C-12378-PeCDD	5.33e5	3.36e5	8.69e5	34.54	1.10	1.59	NO	93.078	0.884	0.122	1.08e7	4256	2544.2	6.73e6	2677	2514.7	bb
20	13C-123678-HxCDD	4.70e5	3.68e5	8.38e5	37.32	0.99	1.28	NO	98.328	1.093	0.155	8.30e6	3719	2231.1	6.35e6	3448	1842.3	db
21	13C-1234678-HpCDD	3.16e5	2.88e5	6.04e5	40.74	1.08	1.10	NO	98.307	0.787	0.195	4.07e6	3435	1186.0	3.83e6	3088	1240.7	bd
22	13C-OCDD	4.67e5	5.12e5	9.79e5	45.17	1.20	0.91	NO	190.952	0.638	0.368	4.41e6	4486	983.9	4.83e6	5761	839.2	bd
23	13C-2378-TCDF	7.70e5	9.74e5	1.74e6	31.21	1.00	0.79	NO	97.449	1.775	0.0272	1.34e7	1284	10441.6	1.66e7	1680	9895.2	bb
24	13C-12378-PeCDF	9.44e5	5.99e5	1.54e6	33.71	1.08	1.58	NO	92.782	1.570	0.115	2.12e7	5008	4225.5	1.35e7	6587	2051.5	bd
25	13C-123678-HxCDF	4.24e5	8.20e5	1.24e6	36.59	0.97	0.52	NO	99.492	1.622	0.214	6.89e6	6936	993.8	1.34e7	7644	1752.6	dd
26	13C-1234678-HpCDF	2.52e5	5.75e5	8.27e5	39.44	1.05	0.44	NO	99.805	1.079	0.178	3.77e6	3304	1141.4	8.52e6	4738	1798.9	bb
27	13C-1234-TCDD	4.32e5	5.51e5	9.83e5	31.34	0.00	0.79	NO	100.000	1.000	0.0690	7.89e6	2533	3113.8	9.74e6	1591	6121.1	bb
28	13C-123789-HxCDD	4.28e5	3.39e5	7.67e5	37.56	0.00	1.26	NO	100.000	1.000	0.172	6.98e6	3719	1876.8	5.52e6	3448	1601.0	bb
29	37Cl-2378-TCDD (SS)	5.51e3		5.51e3	31.76	1.00			0.465	0.980	0.0156	1.18e5	1273	92.6				bb
30	13C-23478-PeCDF (SS)	8.80e5	5.64e5	1.44e6	34.34	1.02	1.56	NO	100.221	0.935	0.108	2.01e7	5008	4005.6	1.27e7	6587	1931.2	bb
31	13C-123478-HxCDF (SS)	3.46e5	6.72e5	1.02e6	36.48	1.00	0.52	NO	101.046	0.818	0.267	6.94e6	6936	1001.3	1.35e7	7644	1761.1	bd
32	13C-123478-HxCDD (SS)	4.09e5	3.22e5	7.31e5	37.23	1.00	1.27	NO	101.255	0.872	0.169	7.36e6	3719	1978.4	6.02e6	3448	1745.5	bd
33	13C-1234789-HpCDF (SS)	1.88e5	4.31e5	6.19e5	41.45	1.05	0.44	NO	98.982	0.748	0.258	2.45e6	3304	740.6	5.34e6	4738	1127.8	bb

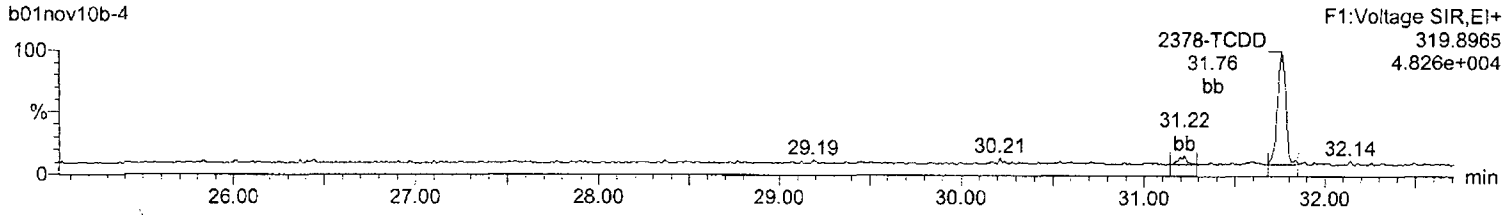
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

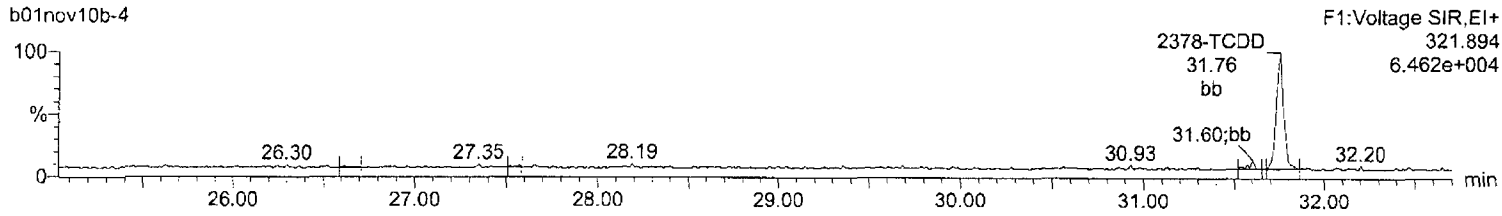
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

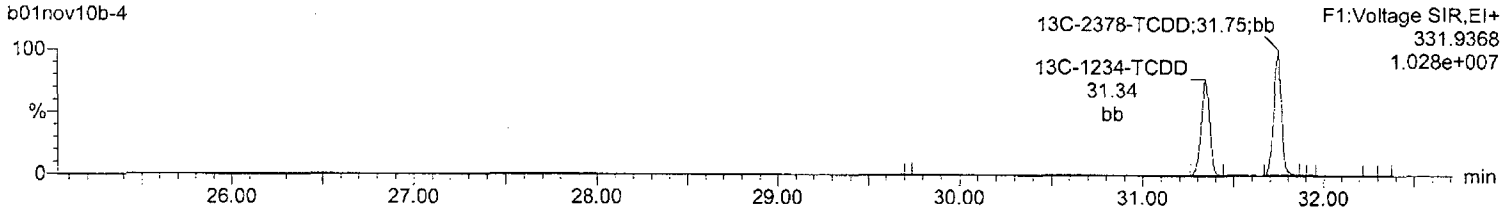
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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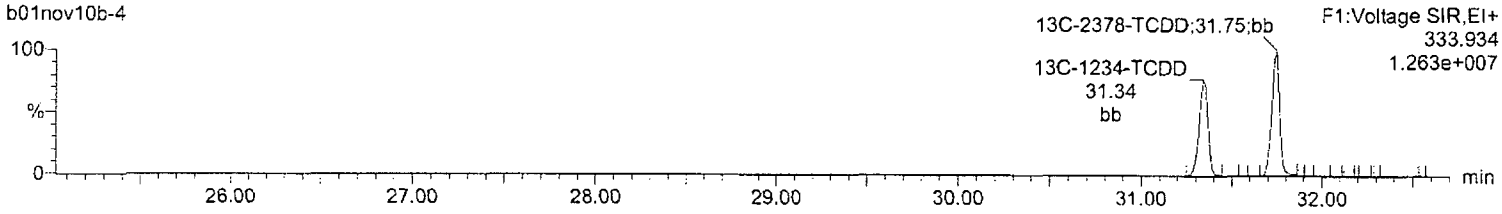
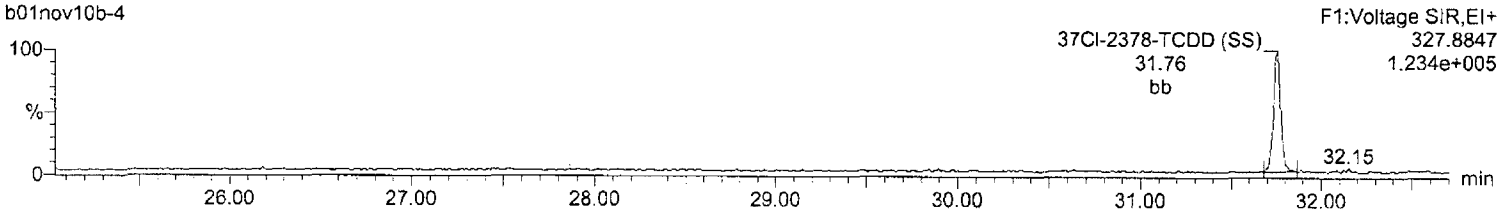
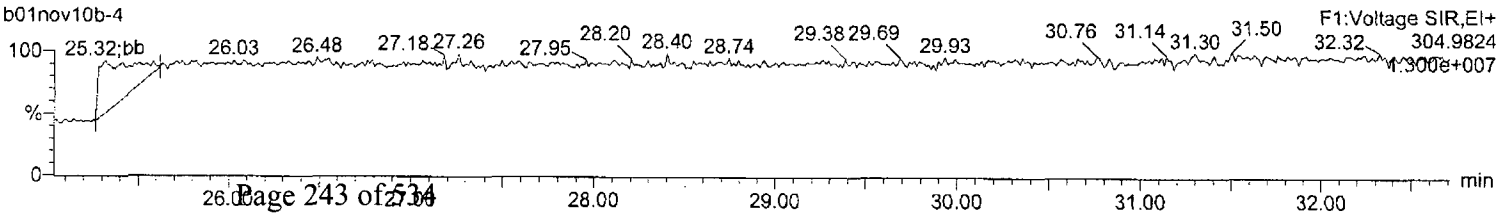


37Cl-2378-TCDD (SS)



Lock Mass F1



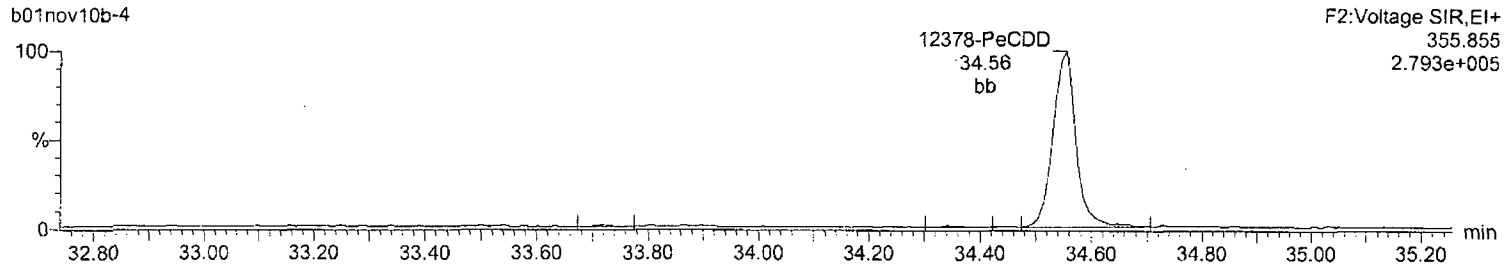
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

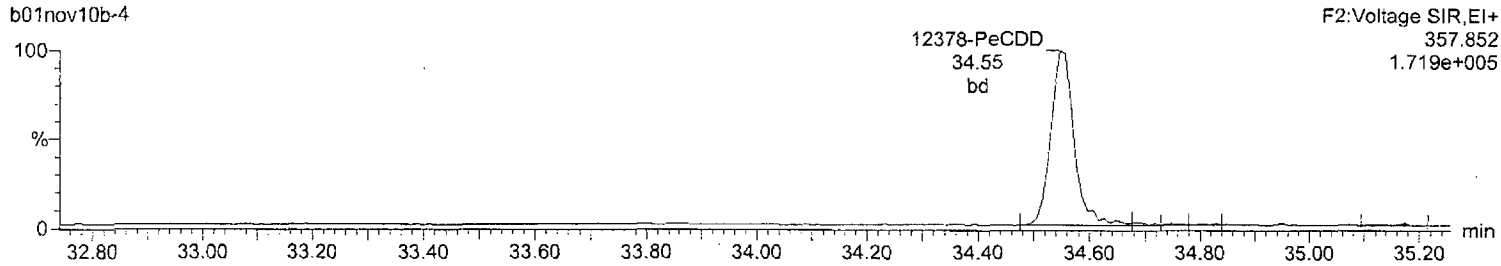
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

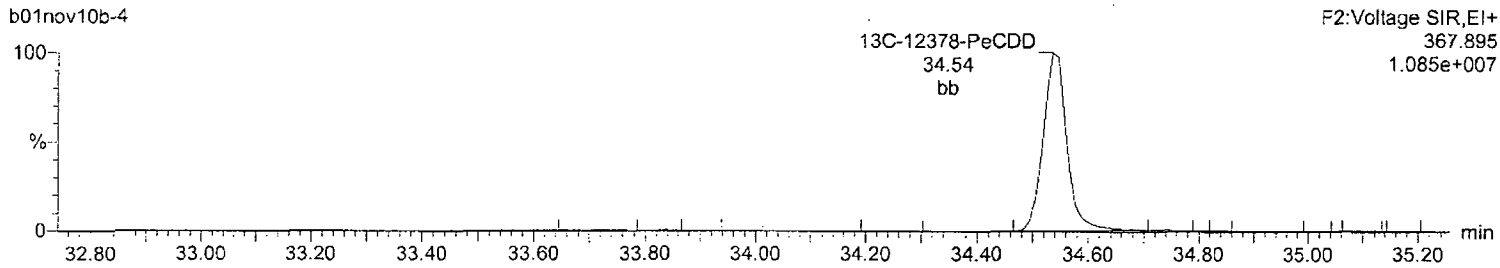
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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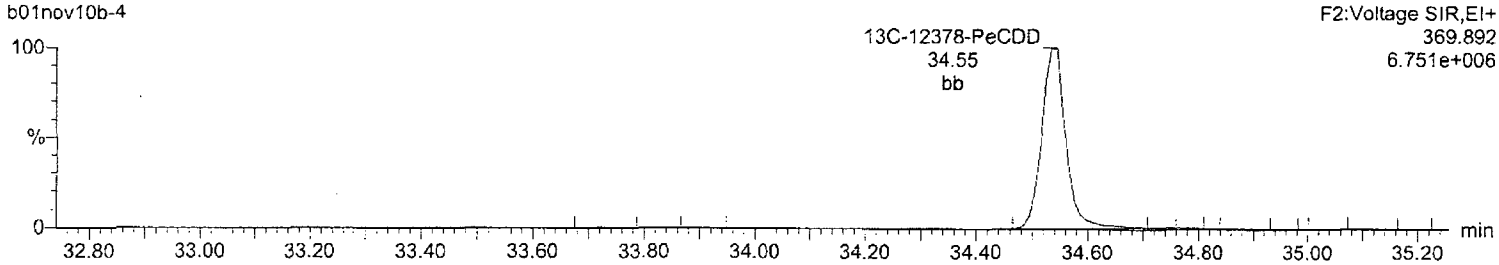
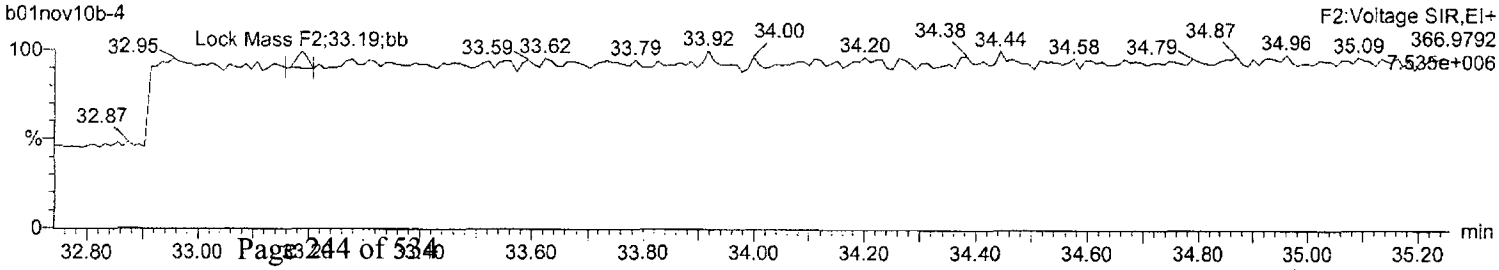


Lock Mass F2



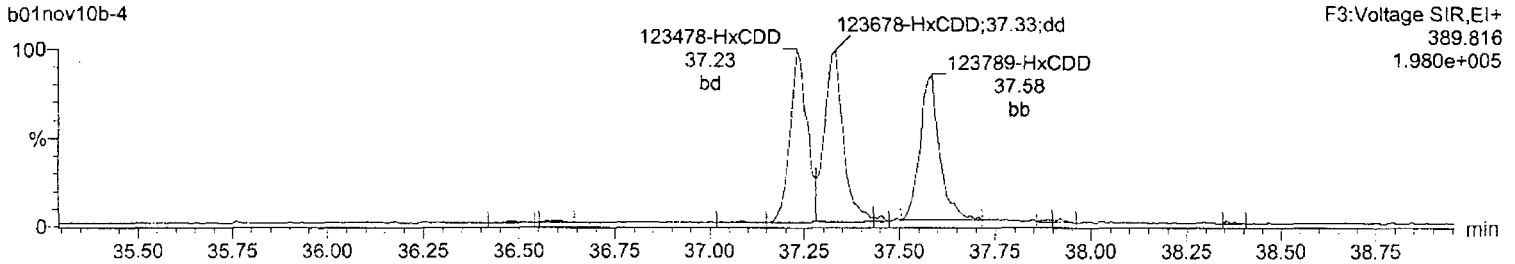
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

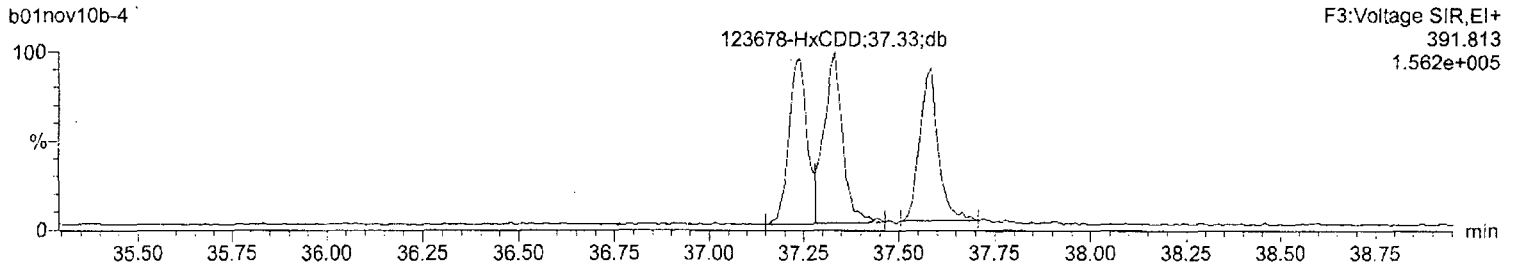
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

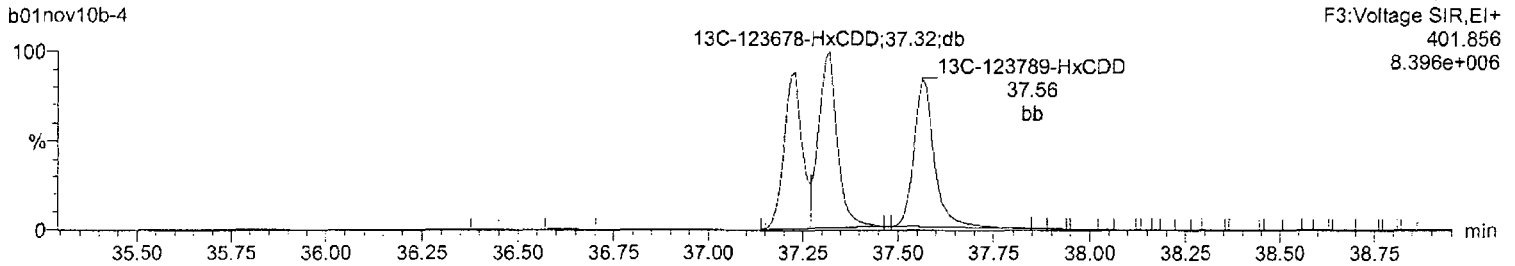
Total-hexadioxins



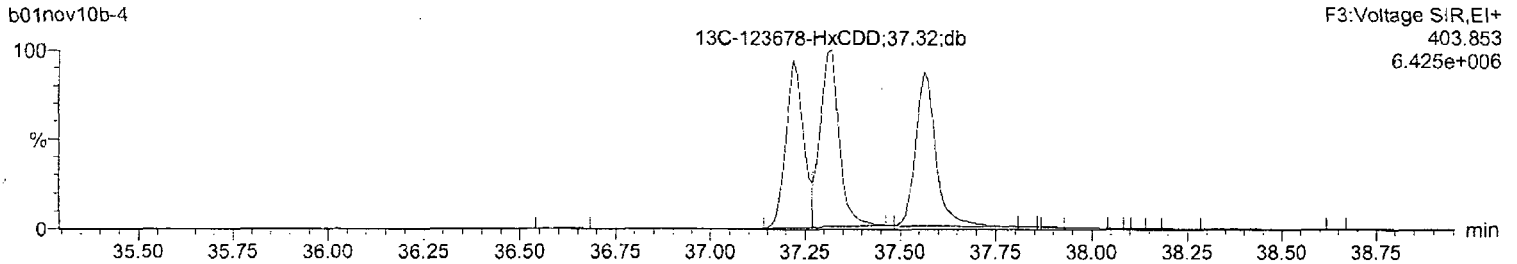
Total-hexadioxins



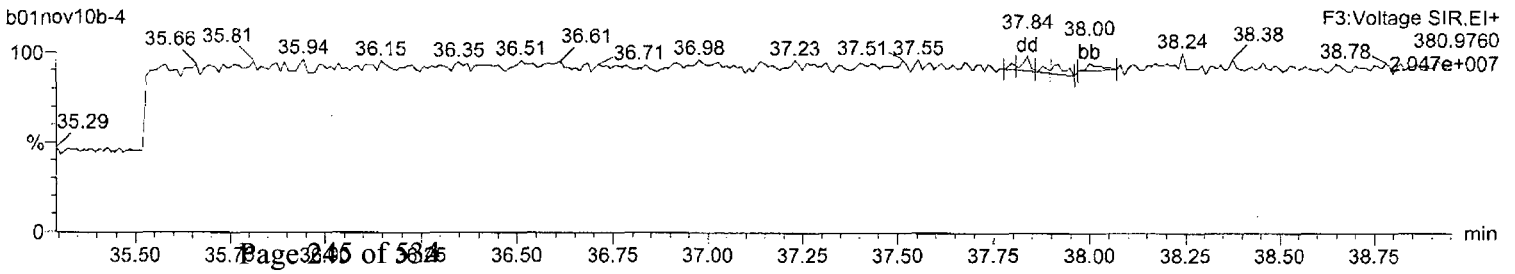
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



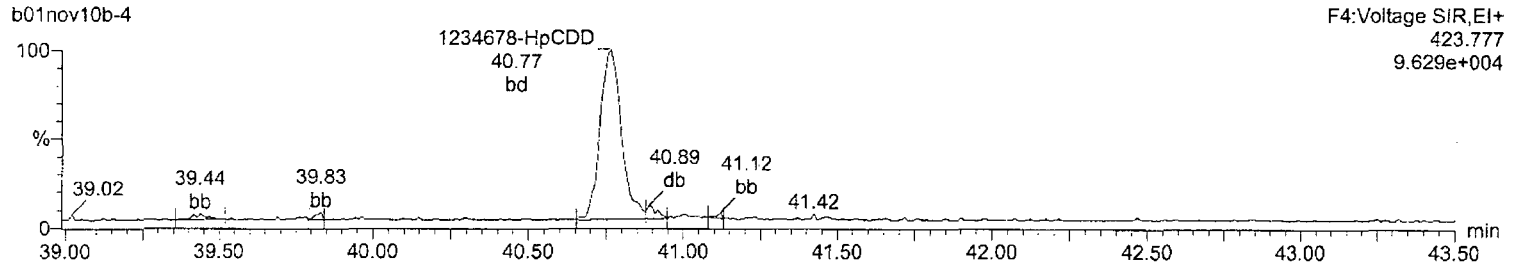
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

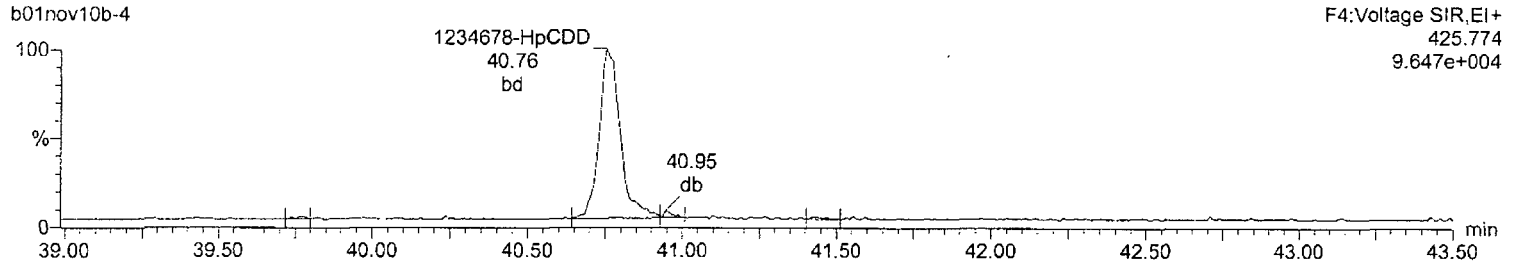
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

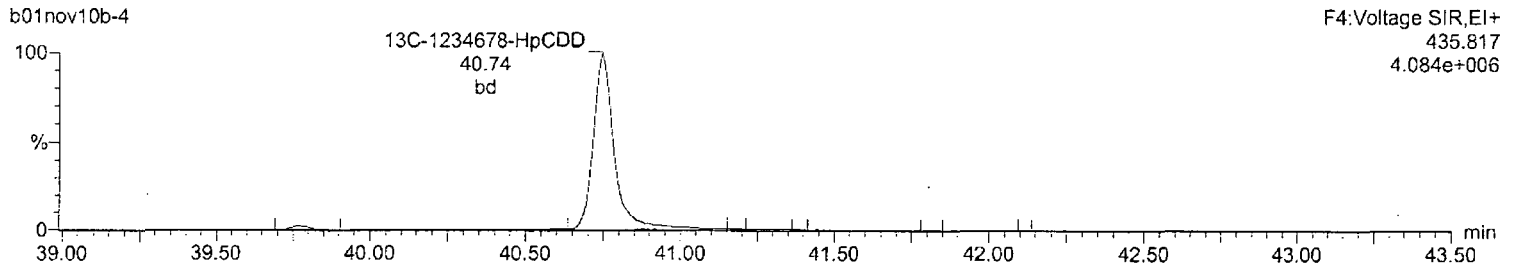
Total-heptadioxins



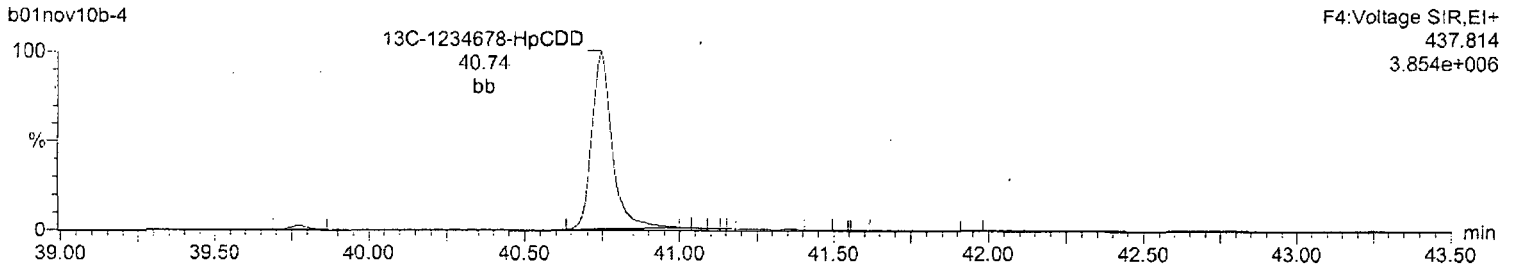
Total-heptadioxins



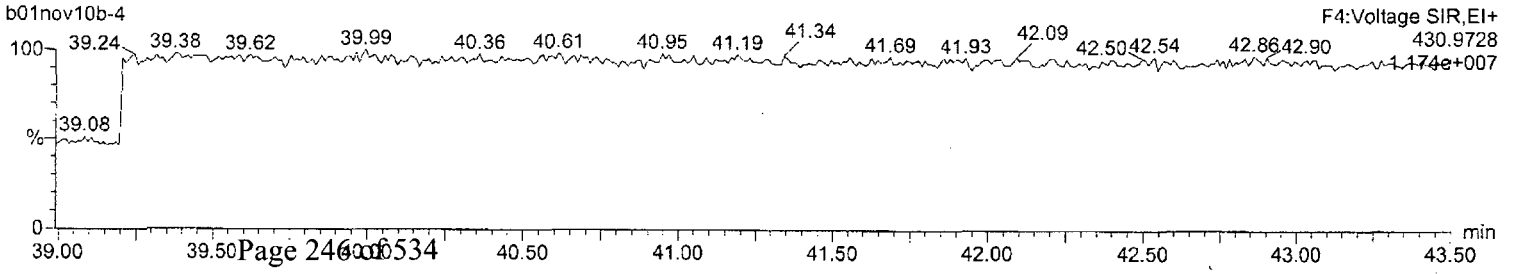
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



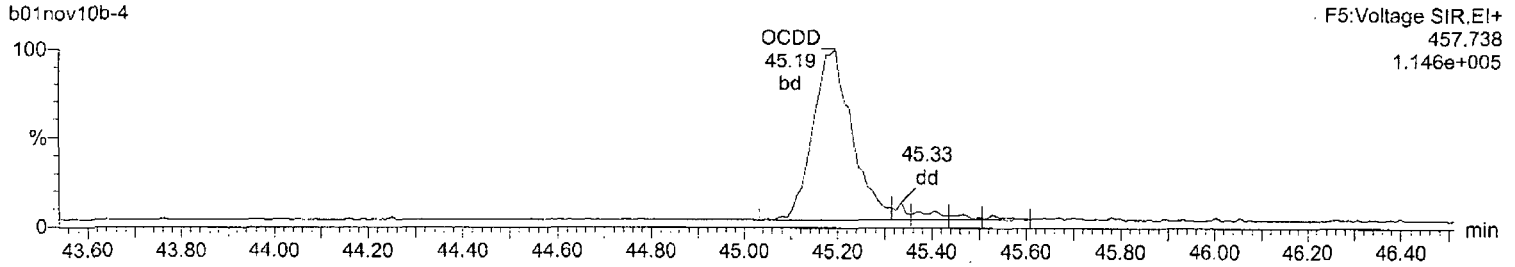
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

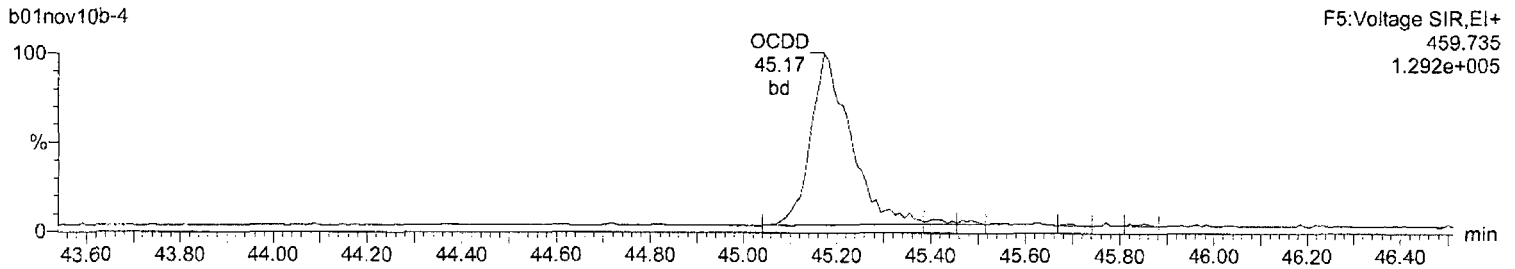
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

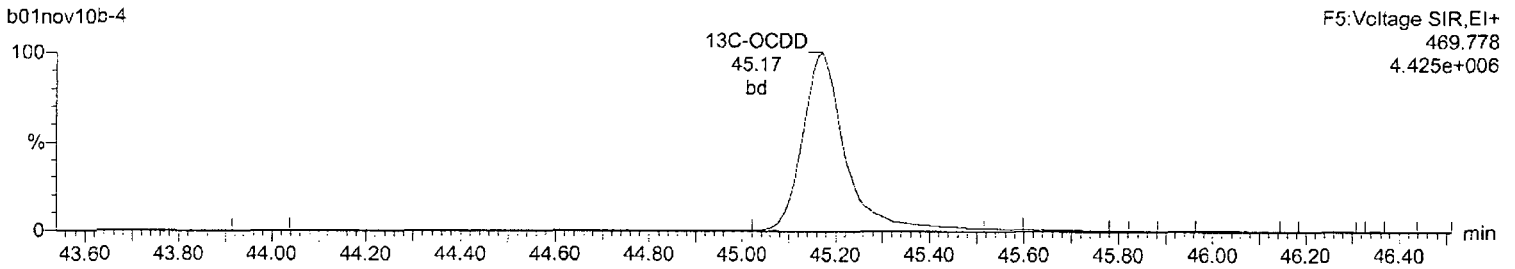
OCDD



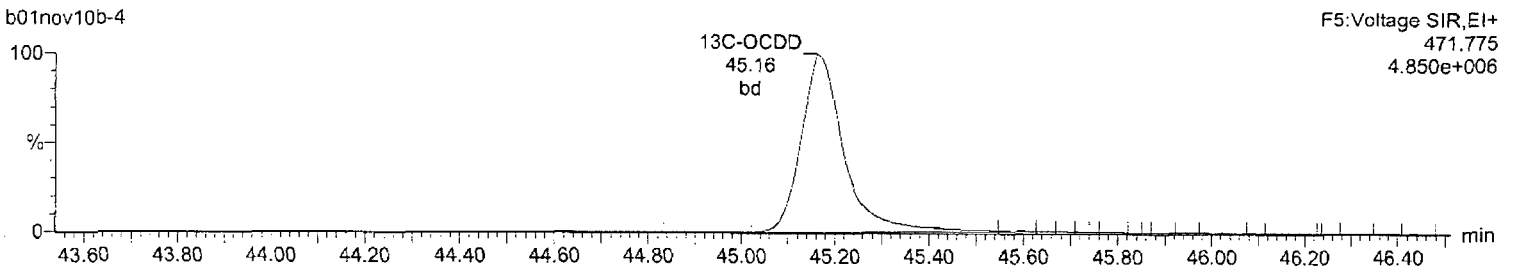
OCDD



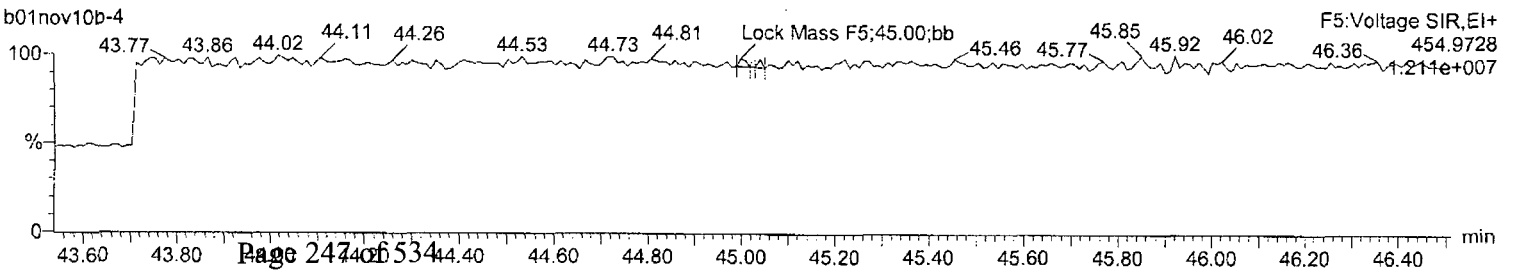
13C-OCDD



13C-OCDD



Lock Mass F5



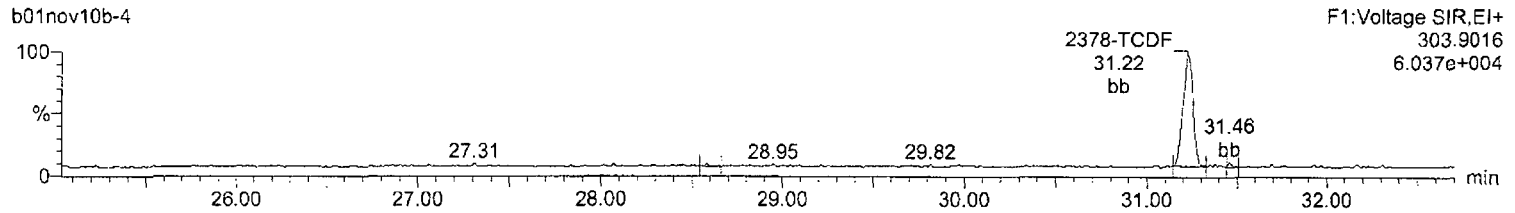
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

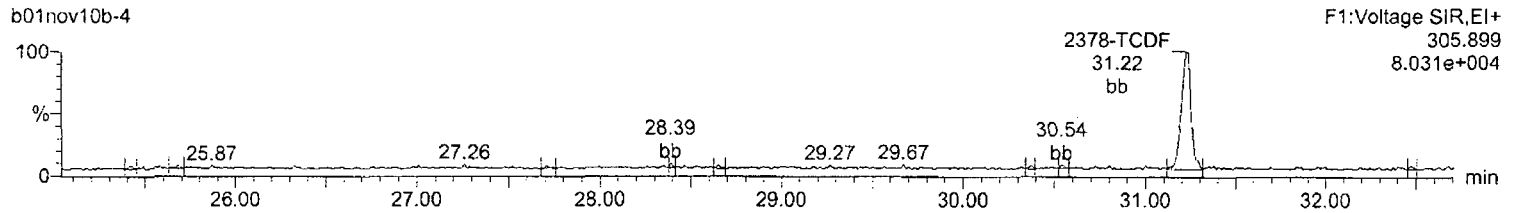
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

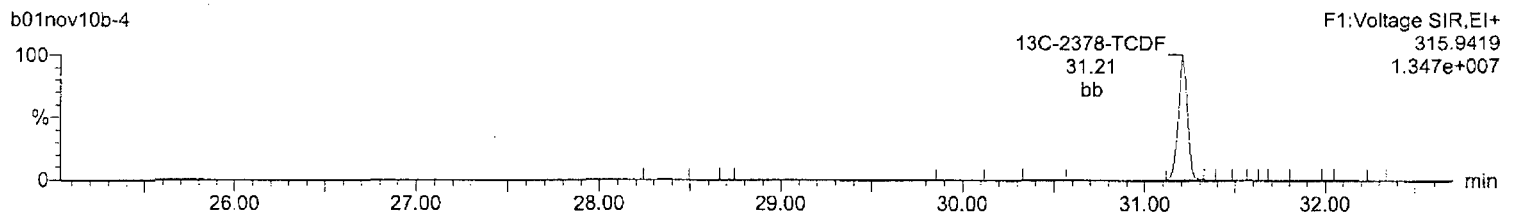
Total-tetrafurans



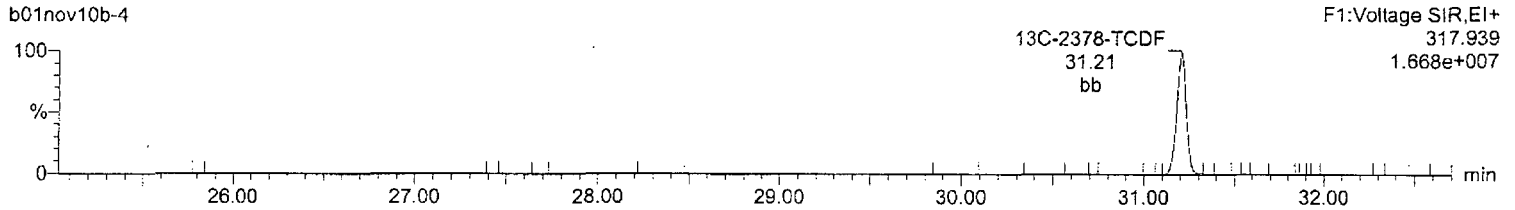
Total-tetrafurans



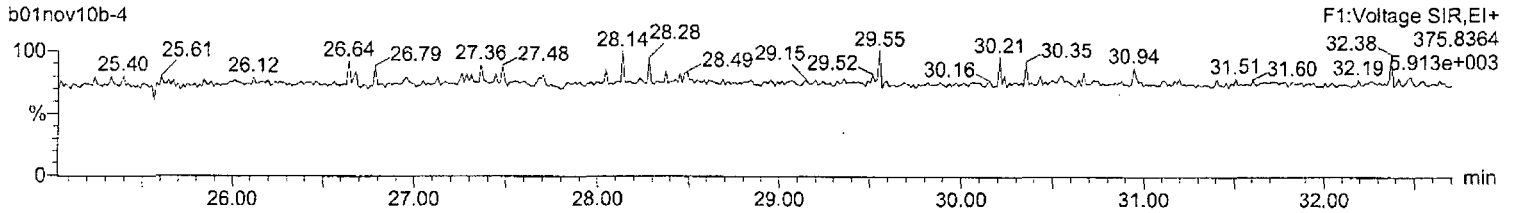
13C-2378-TCDF



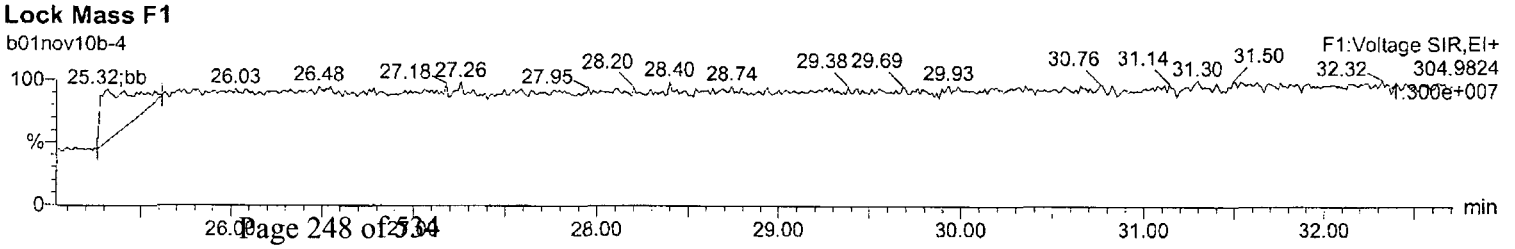
13C-2378-TCDF



HxDPE



Lock Mass F1



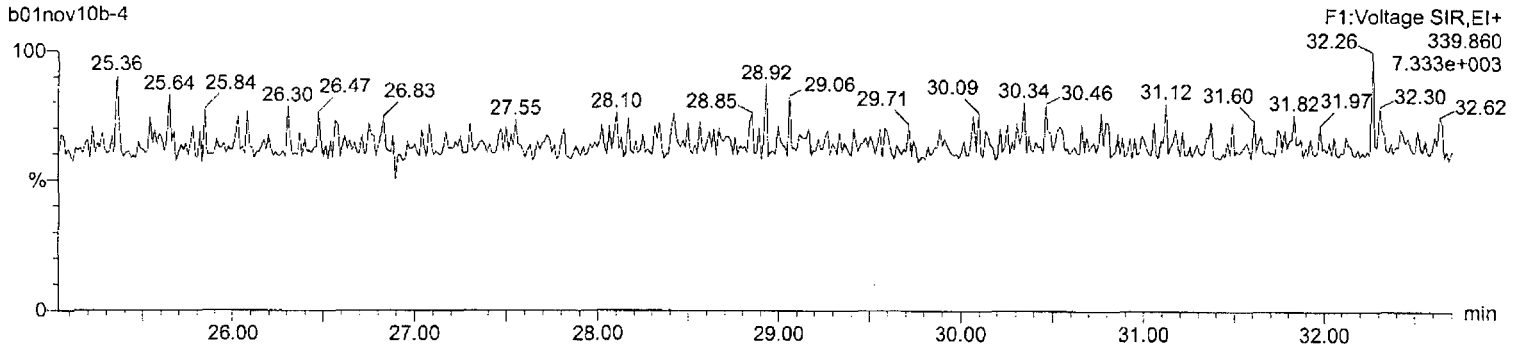
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

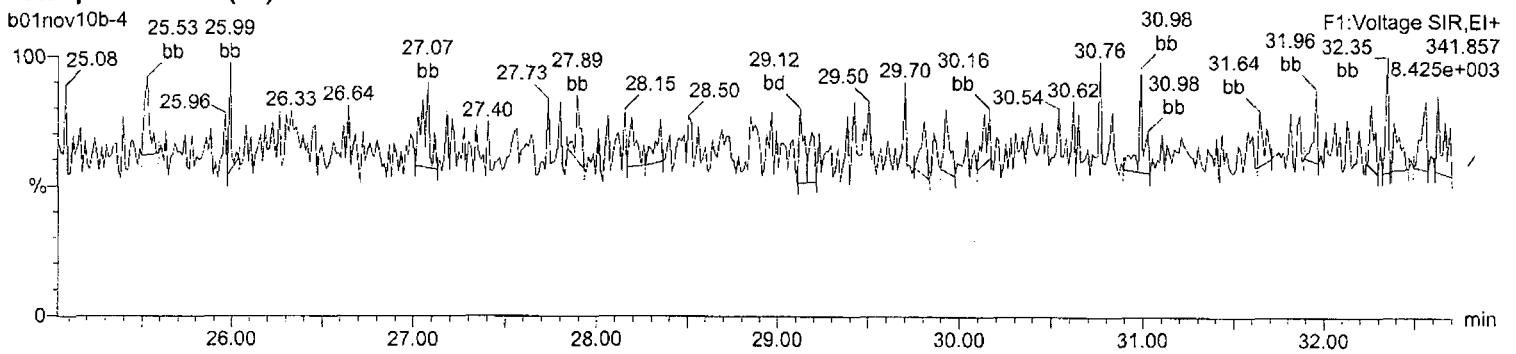
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

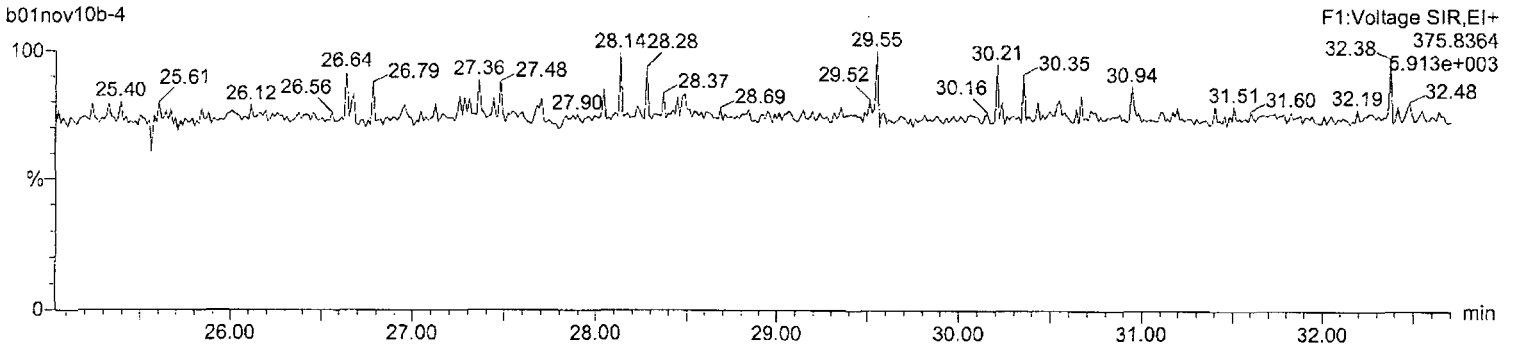
Total-pentafurans (F1)



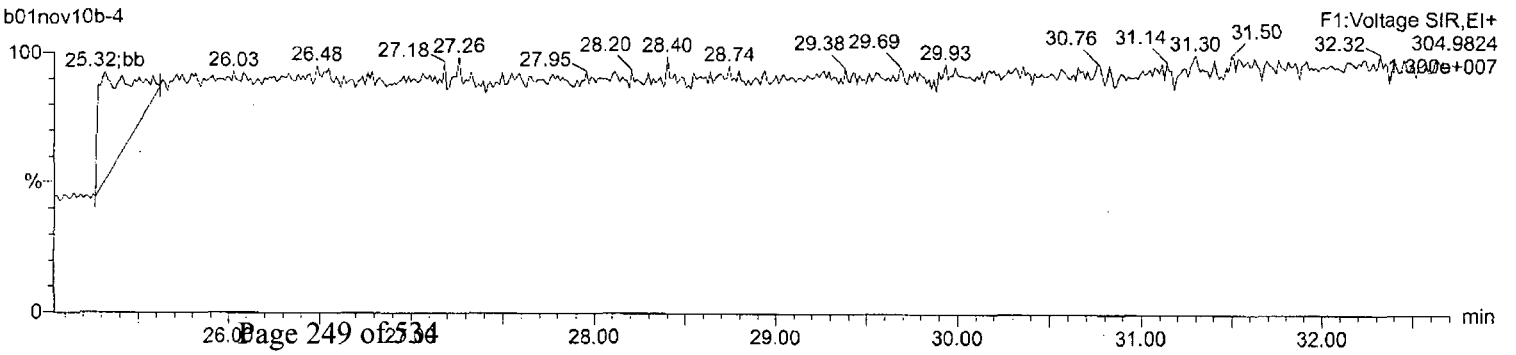
Total-pentafurans (F1)



HxDPE



Lock Mass F1



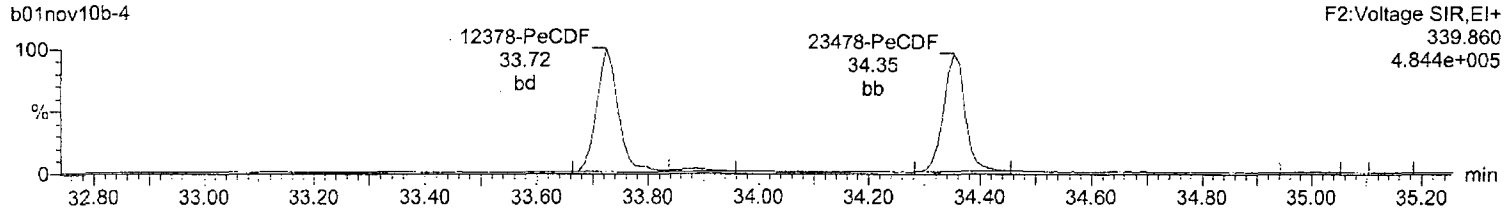
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

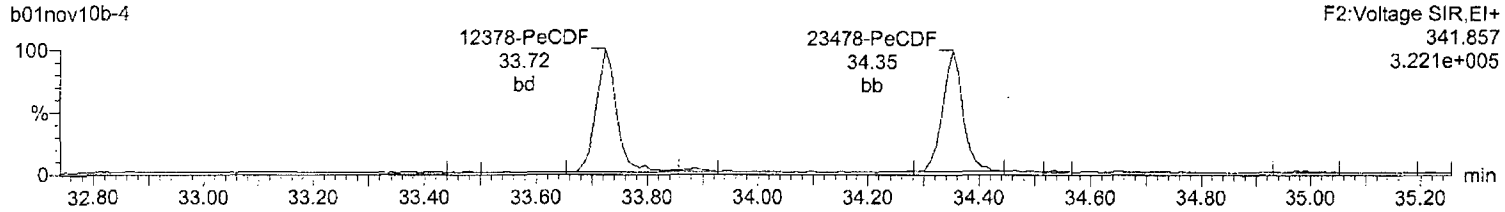
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

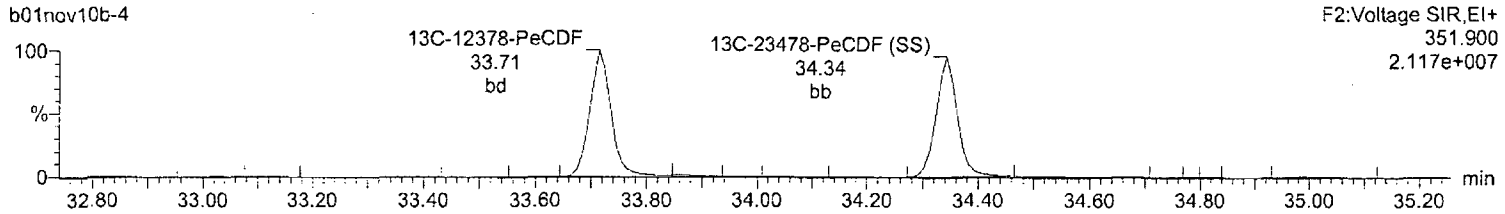
Total-pentafurans



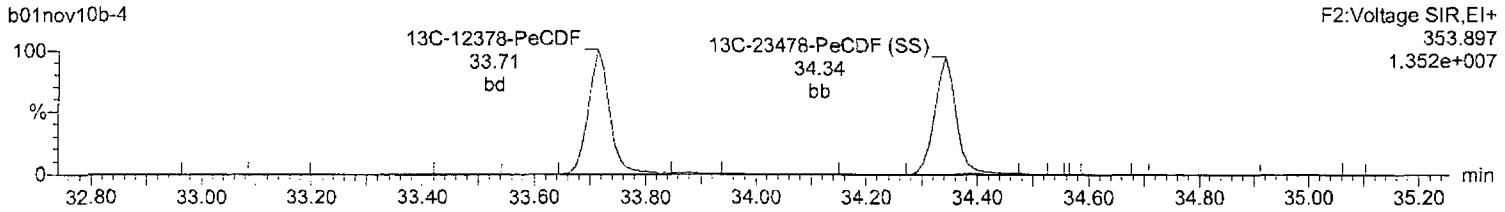
Total-pentafurans



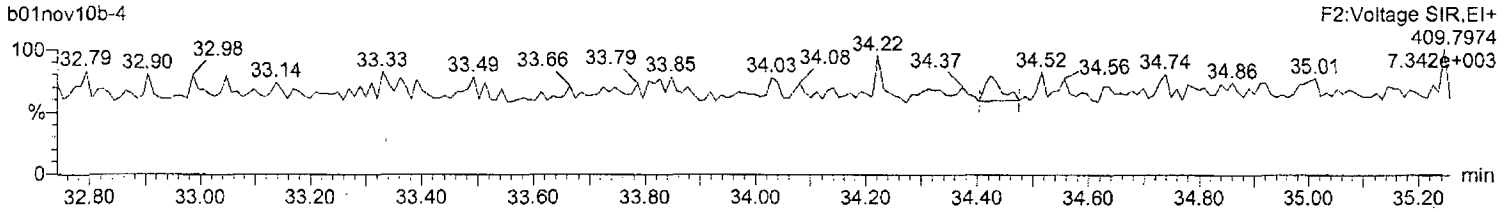
13C-12378-PeCDF



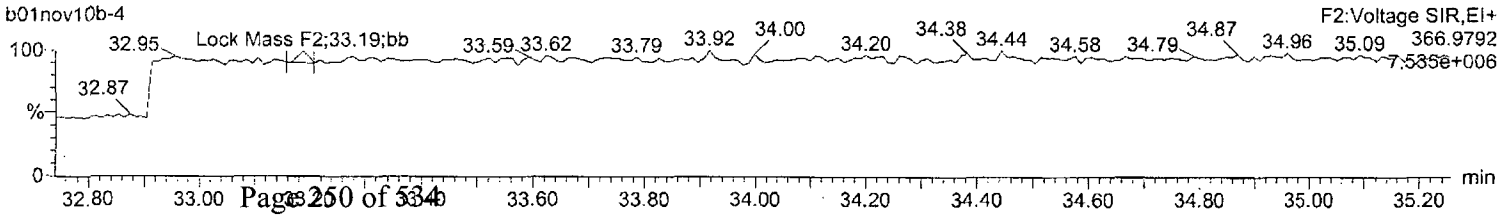
13C-12378-PeCDF



HpDPE



Lock Mass F2



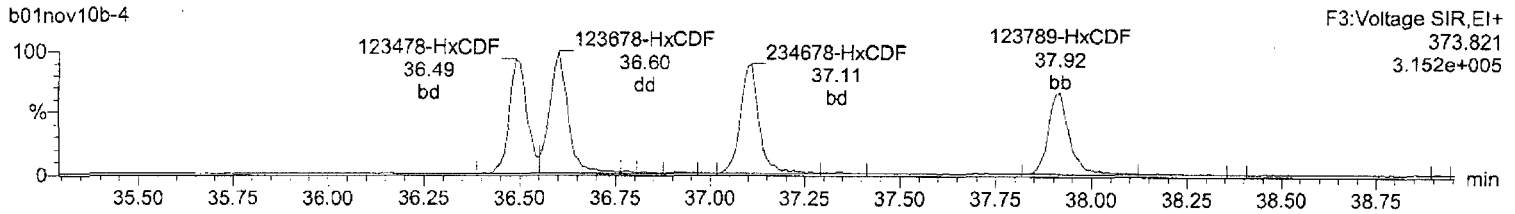
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

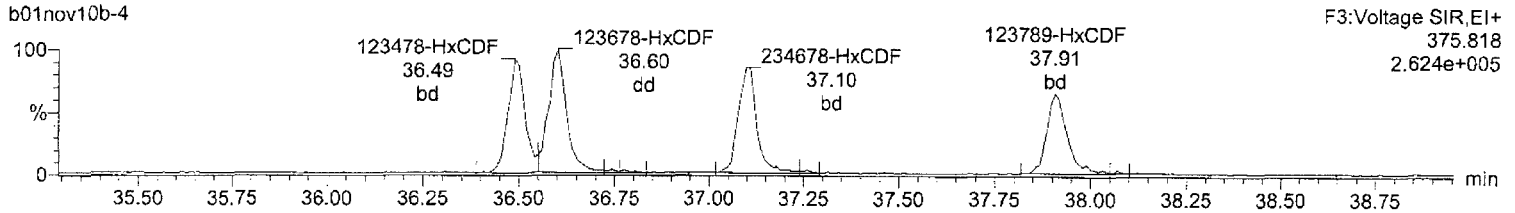
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

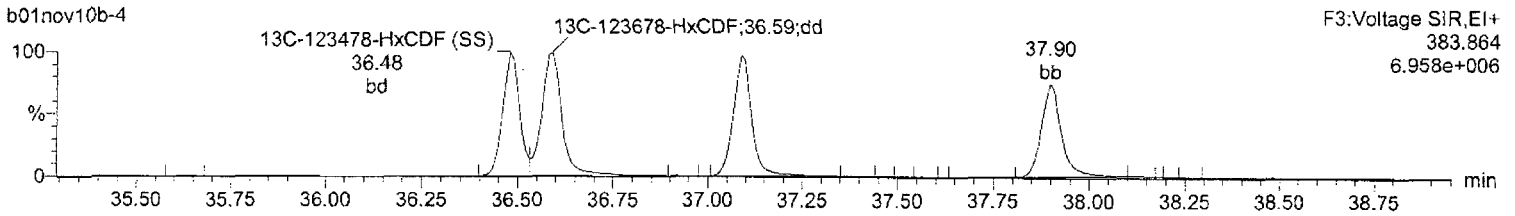
Total-hexafurans



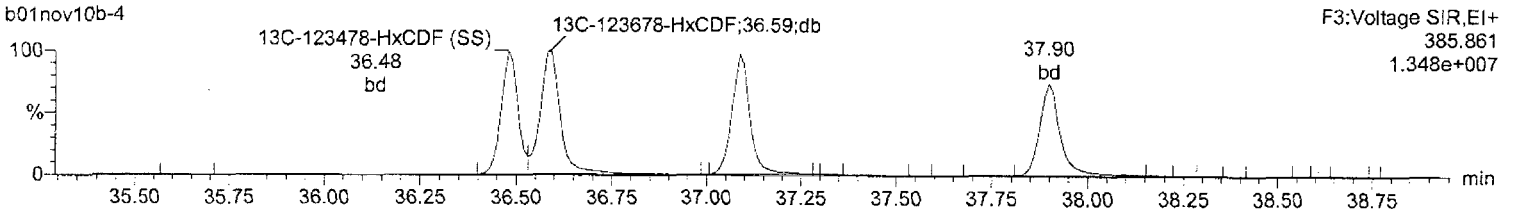
Total-hexafurans



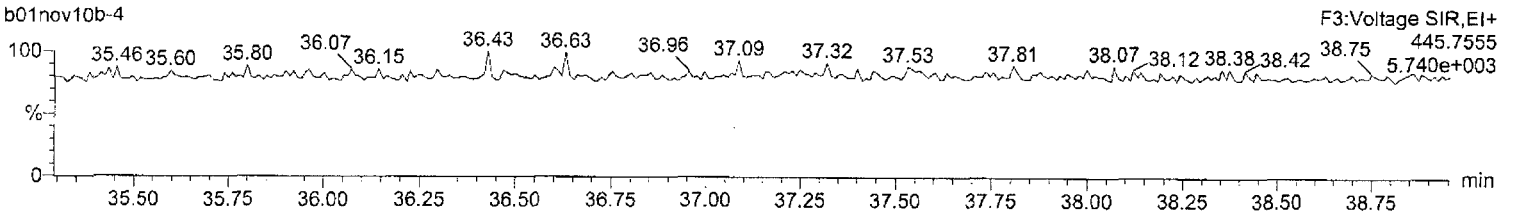
13C-123678-HxCDF



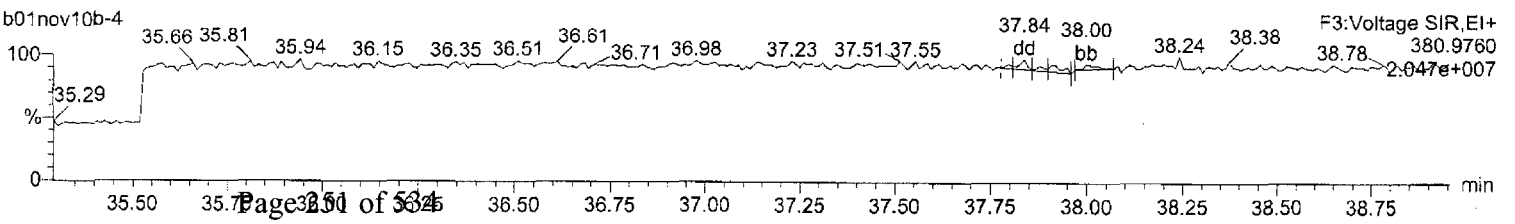
13C-123678-HxCDF



OcDPE



Lock Mass F3



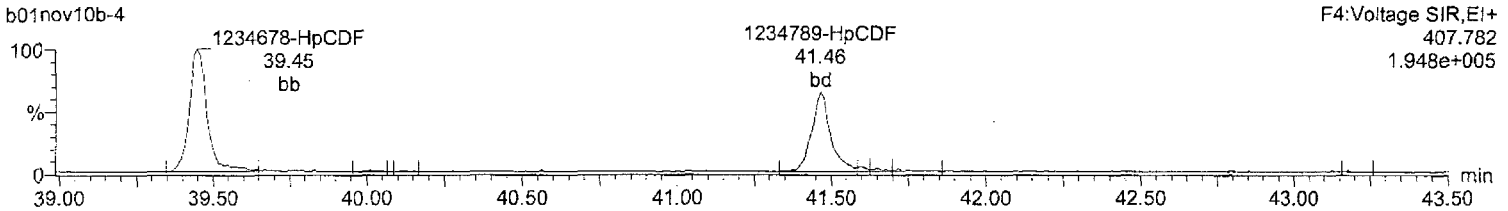
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

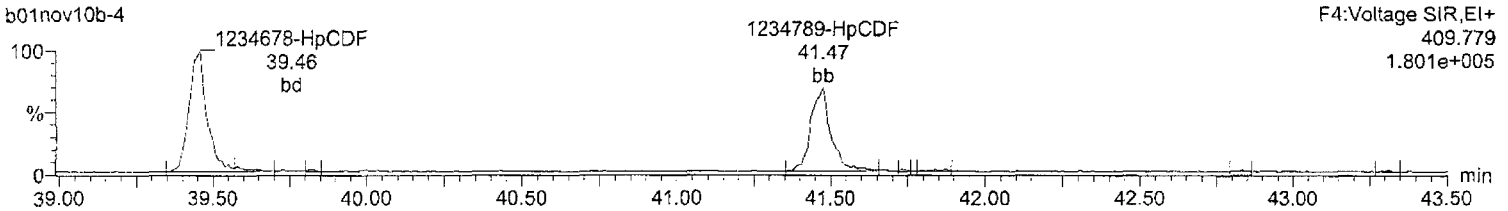
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

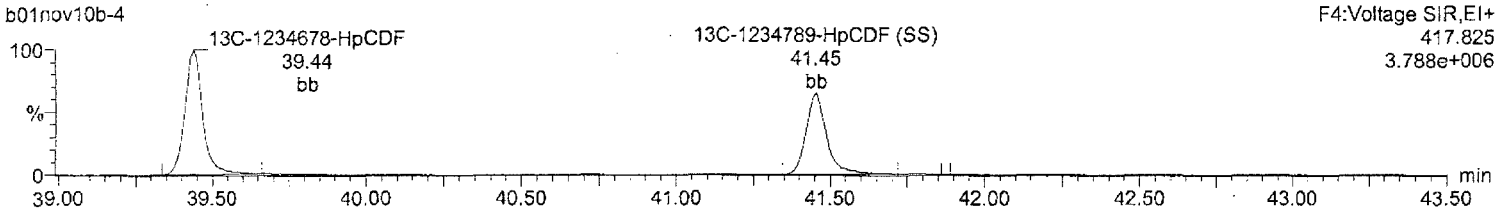
Total-heptafurans



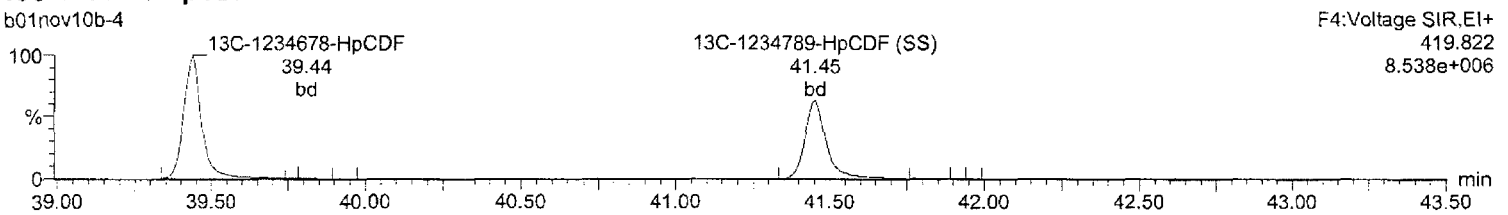
Total-heptafurans



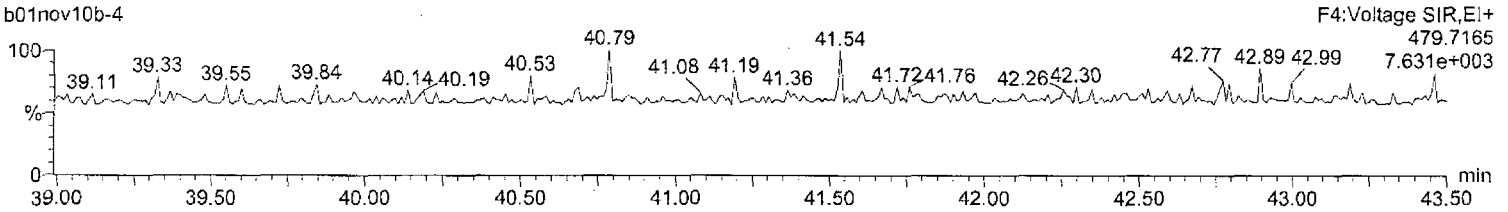
13C-1234678-HpCDF



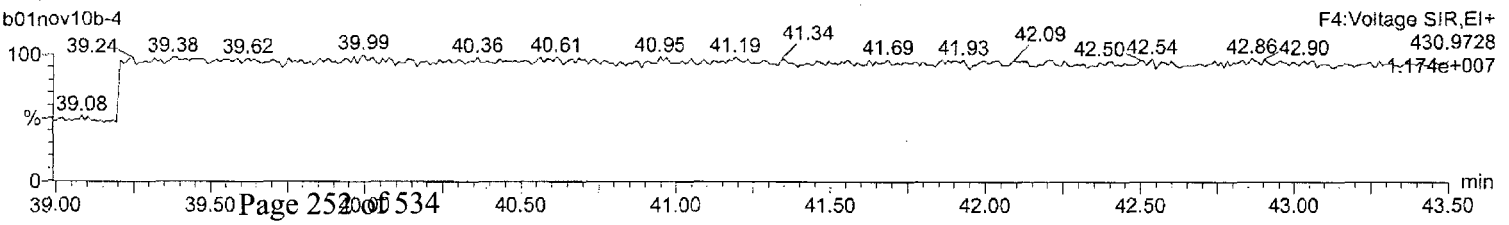
13C-1234678-HpCDF



NoDPE



Lock Mass F4



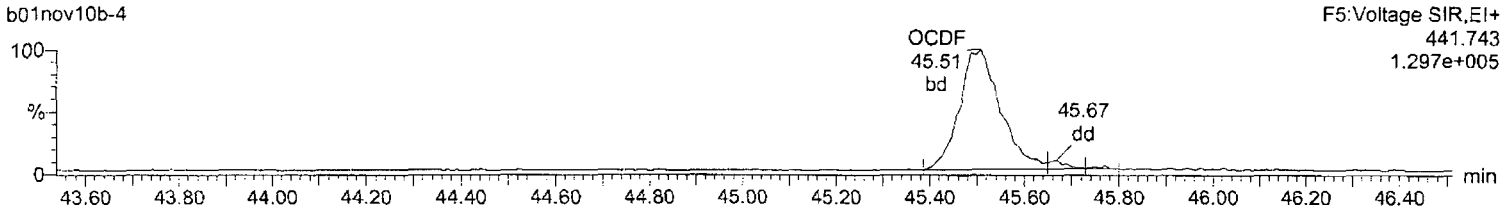
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

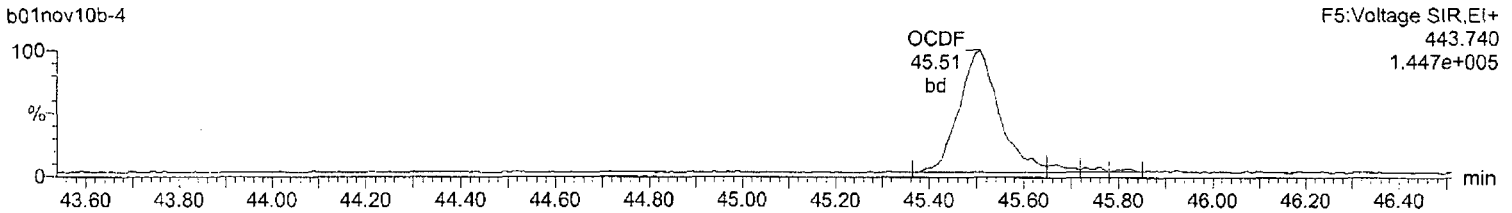
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-4, Date: 01-Nov-2010, Time: 20:04:39, ID: CS1 UD090323-02, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

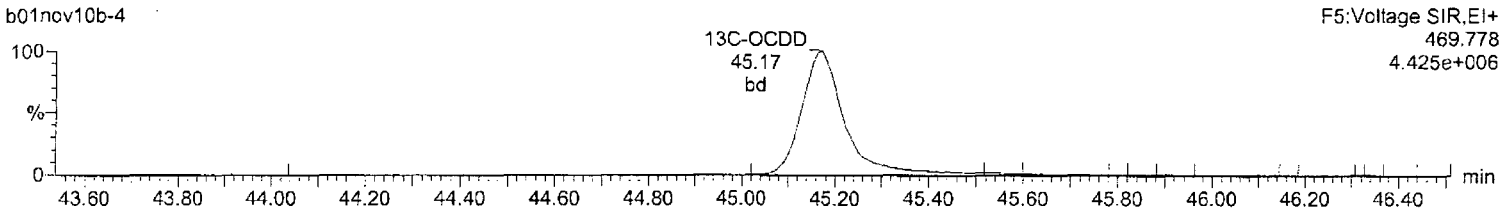
OCDF



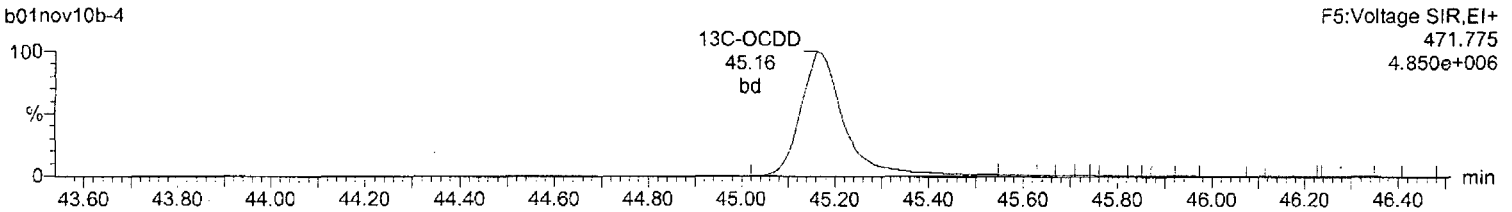
OCDF



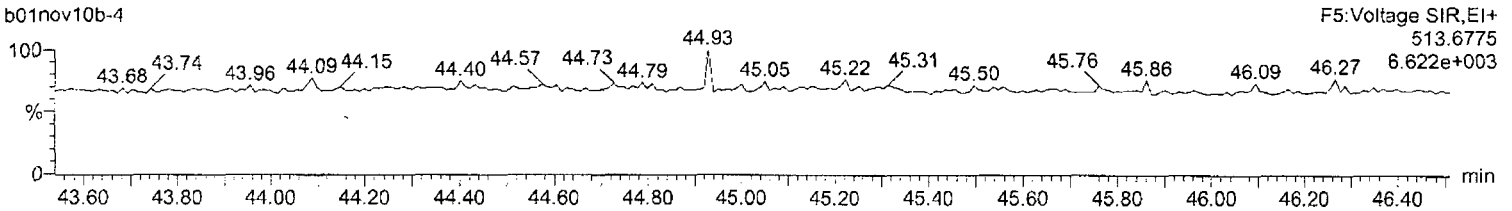
13C-OCDD



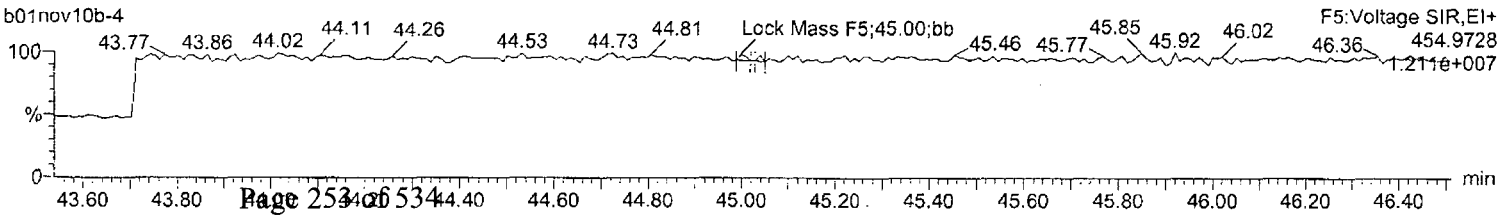
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	9.76e3	1.26e4	2.24e4	31.75	1.00	0.77	NO	1.854	0.938	0.0200	2.03e5	675	301.0	2.42e5	1005	240.3	bd
	12378-PeCDD	5.93e4	3.67e4	9.60e4	34.55	1.00	1.62	NO	10.017	1.034	0.0451	1.29e6	1638	789.0	7.74e5	1476	524.3	bd
3	123478-HxCDD	4.42e4	3.42e4	7.84e4	37.23	1.00	1.29	NO	9.160	0.821	0.0617	8.45e5	1148	736.4	6.48e5	1777	364.8	bd
4	123678-HxCDD	4.92e4	4.09e4	9.01e4	37.32	1.00	1.20	NO	9.753	0.944	0.0572	8.43e5	1148	734.2	6.99e5	1777	393.4	db
5	123789-HxCDD	4.34e4	3.70e4	8.03e4	37.57	1.01	1.17	NO	9.726	0.842	0.0639	7.35e5	1148	640.0	5.89e5	1777	331.7	bb
6	1234678-HpCDD	3.20e4	3.09e4	6.29e4	40.75	1.00	1.04	NO	9.414	0.946	0.0966	4.43e5	1578	280.8	4.05e5	1107	365.9	bd
7	OCDD	4.66e4	5.46e4	1.01e5	45.17	1.00	0.85	NO	18.622	0.927	0.245	4.84e5	1915	252.9	5.50e5	2091	263.0	bd
8	2378-TCDF	1.64e4	2.03e4	3.68e4	31.22	1.00	0.81	NO	2.001	0.984	0.0209	2.84e5	704	403.1	3.28e5	1358	241.2	bb
9	12378-PeCDF	9.51e4	6.14e4	1.57e5	33.72	1.00	1.55	NO	10.089	0.943	0.0538	2.09e6	3167	658.6	1.30e6	2698	483.5	bd
10	23478-PeCDF	9.25e4	6.02e4	1.53e5	34.34	1.02	1.54	NO	10.061	0.920	0.0549	1.97e6	3167	623.6	1.30e6	2698	480.4	bb
11	123478-HxCDF	6.72e4	5.29e4	1.20e5	36.49	1.00	1.27	NO	9.794	0.890	0.0810	1.34e6	3259	412.2	1.08e6	2443	441.4	bd
12	123678-HxCDF	7.80e4	6.20e4	1.40e5	36.59	1.00	1.26	NO	9.804	1.037	0.0696	1.33e6	3259	408.4	1.09e6	2443	447.1	dd
13	234678-HxCDF	6.86e4	5.56e4	1.24e5	37.10	1.01	1.23	NO	9.630	0.920	0.0771	1.31e6	3259	401.5	9.93e5	2443	406.6	bd
14	123789-HxCDF	5.92e4	4.63e4	1.06e5	37.90	1.04	1.28	NO	9.876	0.782	0.0930	9.14e5	3259	280.4	7.42e5	2443	303.6	bd
15	1234678-HpCDF	5.71e4	5.41e4	1.11e5	39.44	1.00	1.06	NO	9.834	1.256	0.0903	8.63e5	2112	408.6	8.22e5	2969	277.0	bd
16	1234789-HpCDF	4.02e4	3.94e4	7.96e4	41.45	1.05	1.02	NO	9.657	0.898	0.124	5.06e5	2112	239.5	4.86e5	2969	163.7	bd
17	OCDF	5.90e4	6.69e4	1.26e5	45.50	1.01	0.88	NO	18.733	1.154	0.210	5.87e5	2178	269.6	6.32e5	2062	306.5	bd
18	13C-2378-TCDD	5.28e5	6.65e5	1.19e6	31.73	1.01	0.79	NO	102.799	1.151	0.0623	1.10e7	2706	4067.7	1.40e7	1678	8360.8	bb
19	13C-12378-PeCDD	5.67e5	3.62e5	9.29e5	34.54	1.10	1.57	NO	94.296	0.896	0.0749	1.23e7	2913	4205.2	7.73e6	1557	4966.4	bb
20	13C-123678-HxCDD	5.36e5	4.18e5	9.54e5	37.31	0.99	1.28	NO	97.212	1.081	0.151	8.91e6	4716	1888.5	6.73e6	2431	2770.1	dd
21	13C-1234678-HpCDD	3.44e5	3.21e5	6.65e5	40.74	1.08	1.07	NO	94.032	0.753	0.227	4.29e6	3183	1349.1	4.08e6	4557	894.8	bd
22	13C-OCDD	5.14e5	5.78e5	1.09e6	45.16	1.20	0.89	NO	184.941	0.618	0.275	4.63e6	4119	1123.7	5.18e6	3700	1399.6	bd
23	13C-2378-TCDF	8.24e5	1.05e6	1.87e6	31.21	1.00	0.79	NO	98.994	1.803	0.0322	1.33e7	1563	8485.5	1.67e7	2114	7901.1	bb
24	13C-12378-PeCDF	1.02e6	6.45e5	1.66e6	33.71	1.08	1.58	NO	94.641	1.602	0.0864	2.14e7	5760	3720.4	1.35e7	3429	3932.0	bd
25	13C-123678-HxCDF	4.62e5	8.88e5	1.35e6	36.58	0.97	0.52	NO	93.756	1.529	0.220	7.95e6	5756	1381.7	1.53e7	9497	1607.6	dd
26	13C-1234678-HpCDF	2.78e5	6.08e5	8.86e5	39.43	1.05	0.46	NO	92.852	1.004	0.190	4.15e6	4022	1032.2	9.03e6	4720	1912.6	bd
27	13C-1234-TCDD	4.61e5	5.76e5	1.04e6	31.34	0.00	0.80	NO	100.000	1.000	0.0698	8.38e6	2706	3095.3	1.03e7	1678	6112.8	bb
28	13C-123789-HxCDD	4.92e5	3.91e5	8.83e5	37.56	0.00	1.26	NO	100.000	1.000	0.168	7.11e6	4716	1507.6	5.76e6	2431	2370.1	dd
29	37Cl-2378-TCDD (SS)	2.41e4		2.41e4	31.75	1.00			1.914	1.009	0.0148	4.81e5	1294	372.1				bb
30	13C-23478-PeCDF (SS)	9.56e5	5.98e5	1.55e6	34.33	1.02	1.60	NO	100.284	0.936	0.0843	2.07e7	5760	3587.3	1.29e7	3429	3771.8	bb
31	13C-123478-HxCDF (SS)	3.76e5	7.24e5	1.10e6	36.48	1.00	0.52	NO	100.625	0.815	0.243	7.39e6	5756	1284.7	1.39e7	9497	1467.5	bd
32	13C-123478-HxCDD (SS)	4.37e5	3.42e5	7.78e5	37.22	1.00	1.28	NO	94.735	0.816	0.157	8.37e6	4716	1774.8	6.38e6	2431	2623.6	bd
33	13C-1234789-HpCDF (SS)	2.07e5	4.64e5	6.71e5	41.44	1.05	0.45	NO	100.184	0.757	0.262	2.57e6	4022	638.0	5.63e6	4720	1193.8	bd

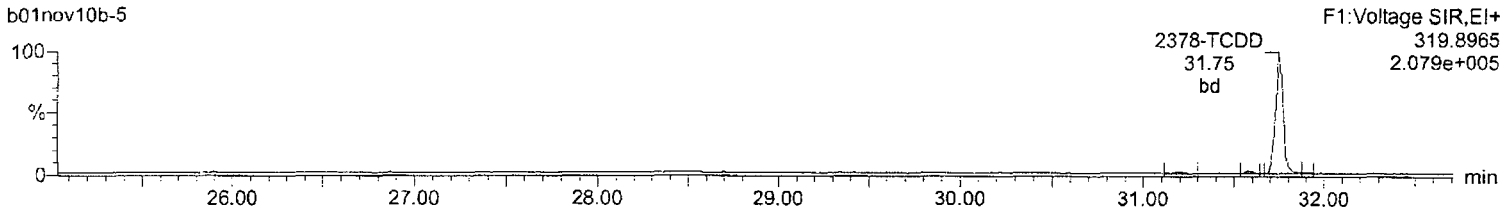
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

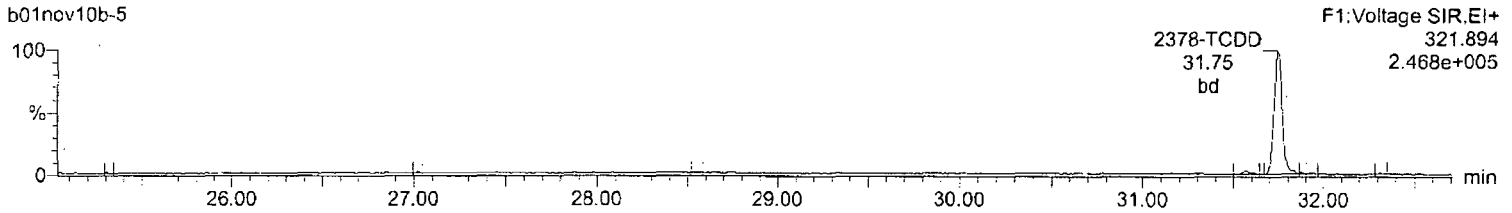
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

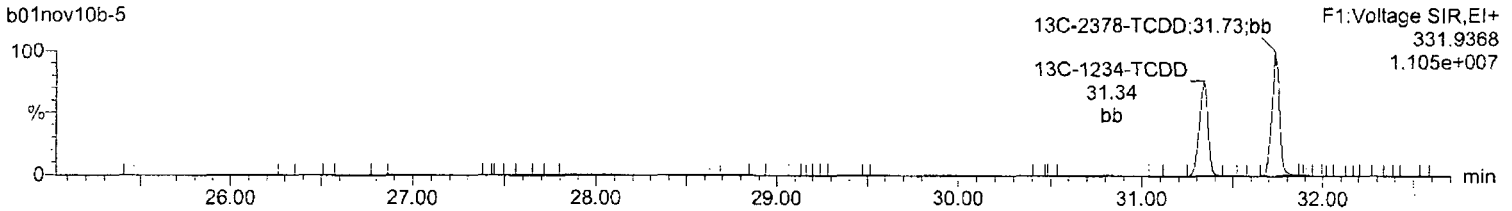
Total-tetradioxins



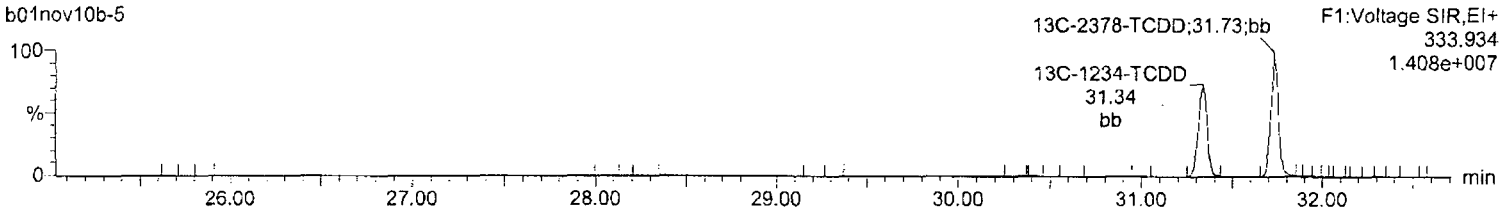
Total-tetradioxins



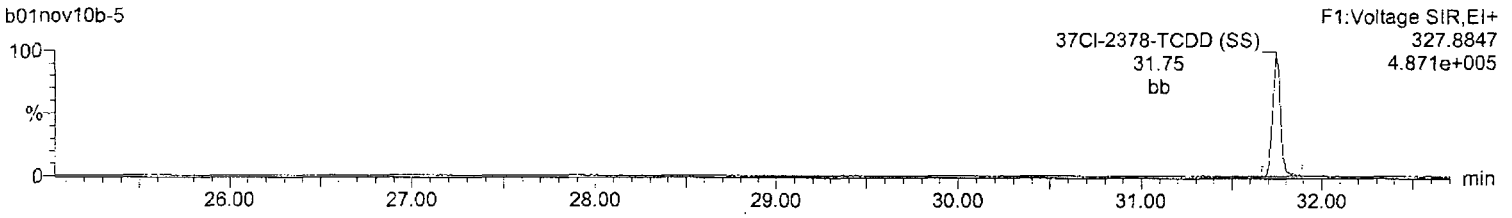
13C-2378-TCDD



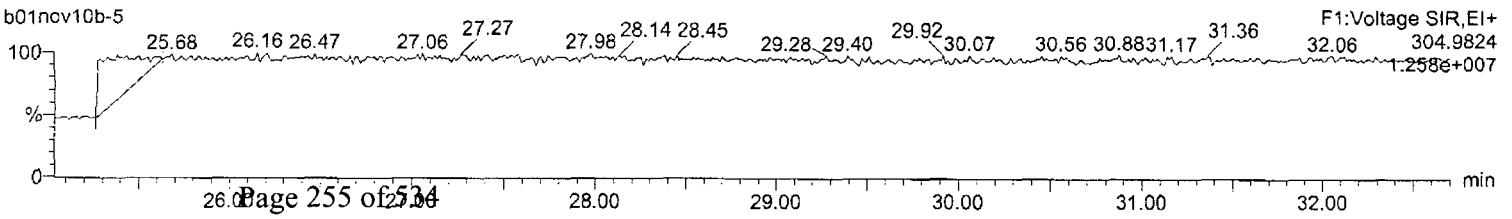
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



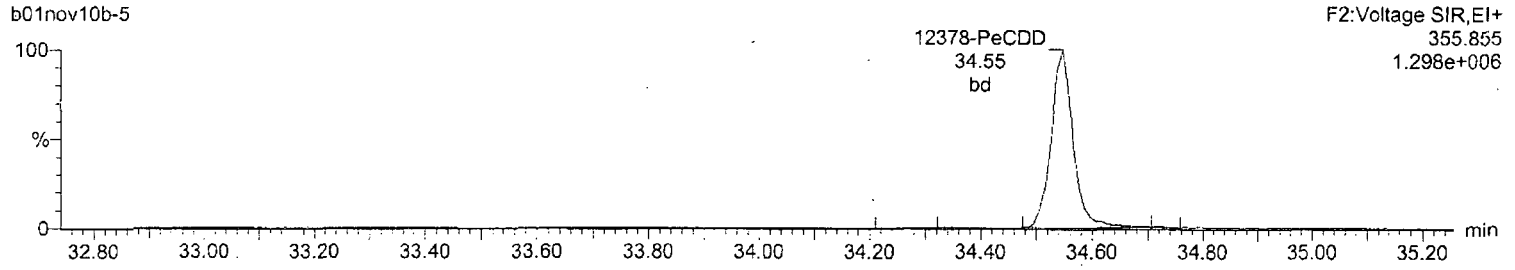
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

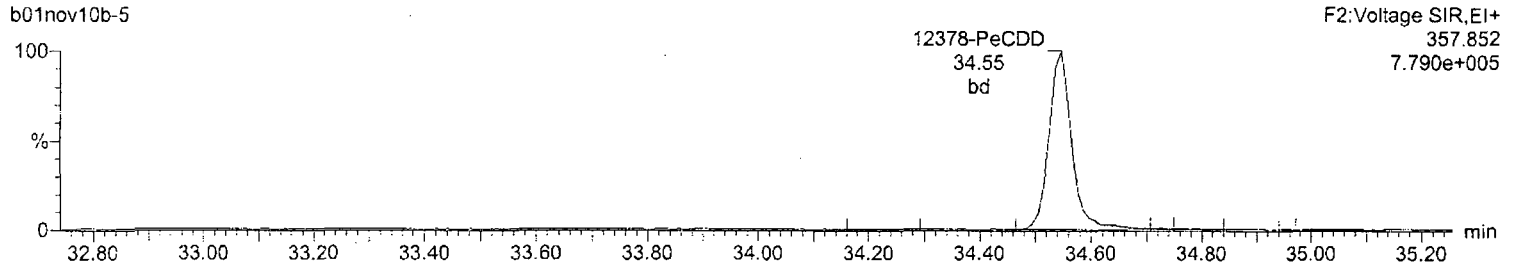
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

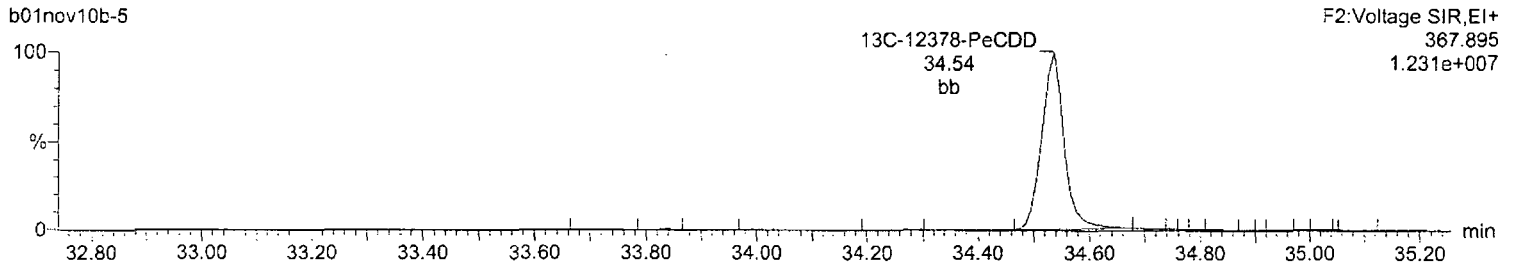
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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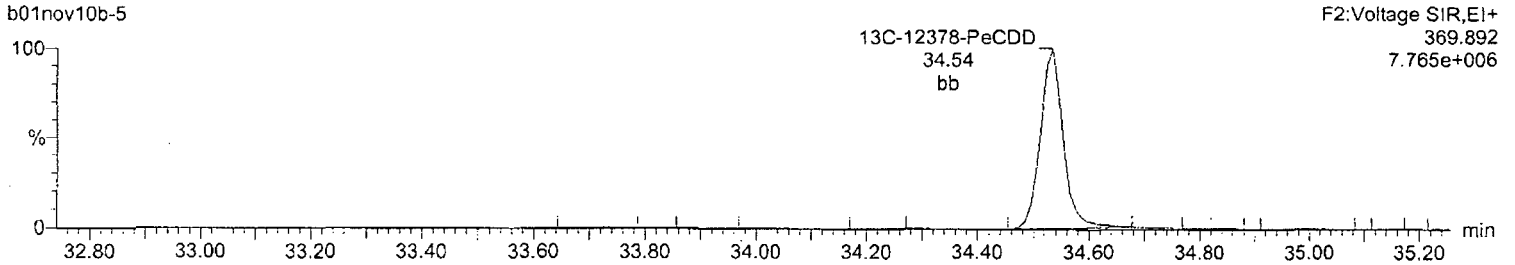
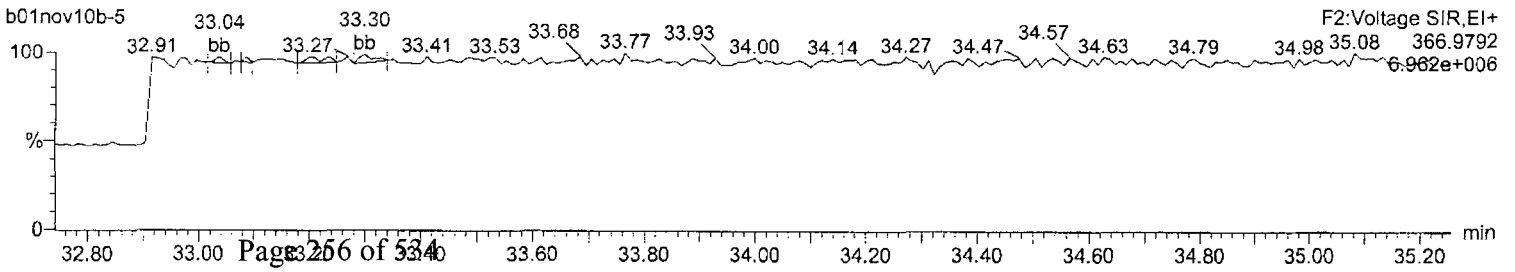


Lock Mass F2



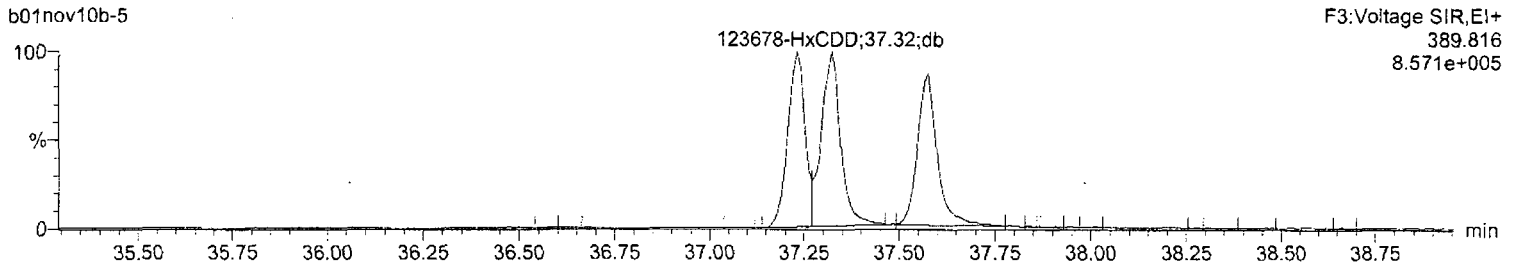
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

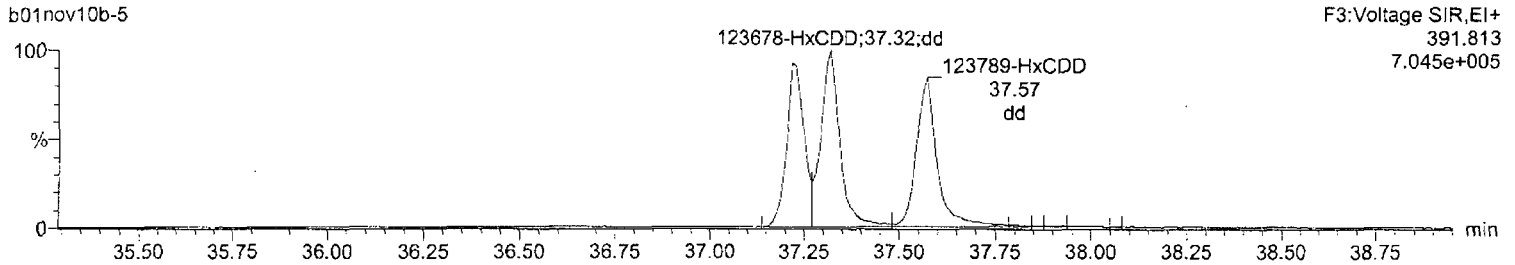
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

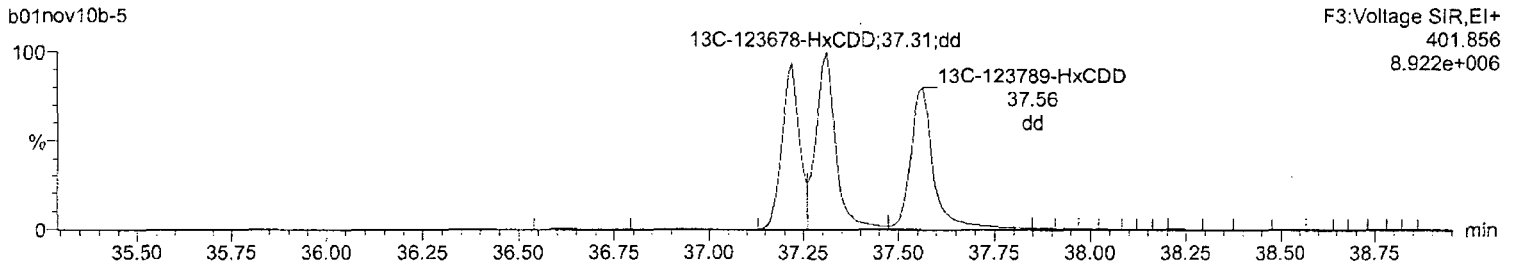
Total-hexadioxins



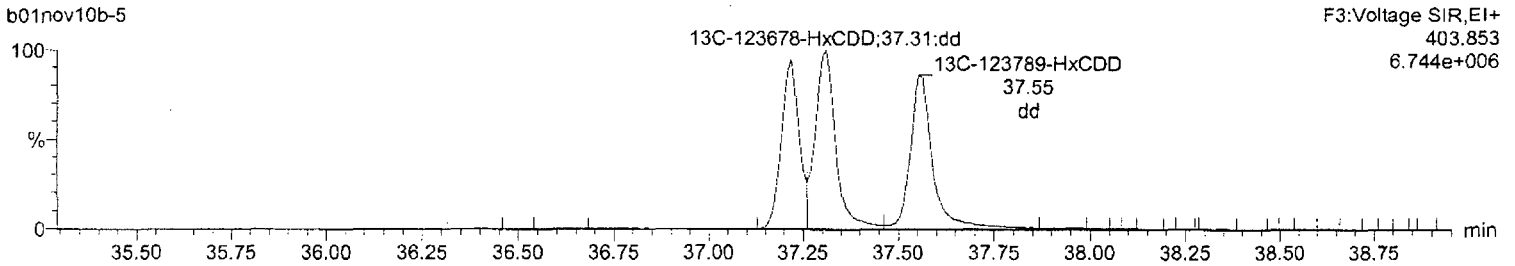
Total-hexadioxins



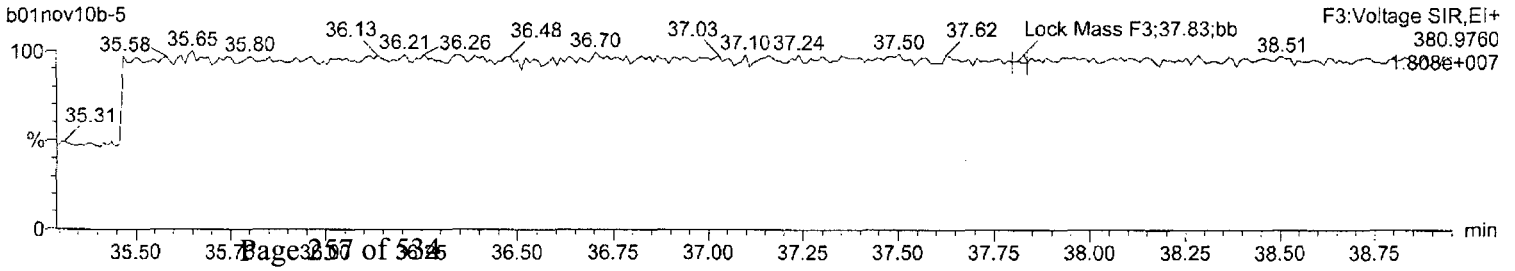
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



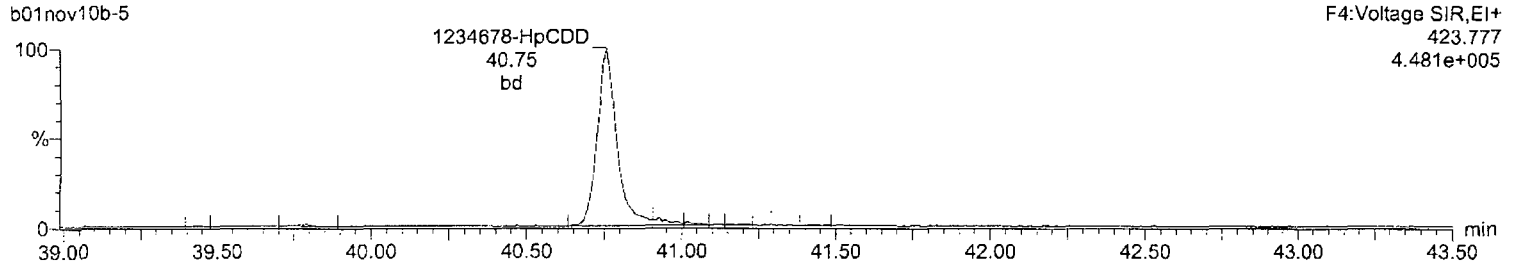
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

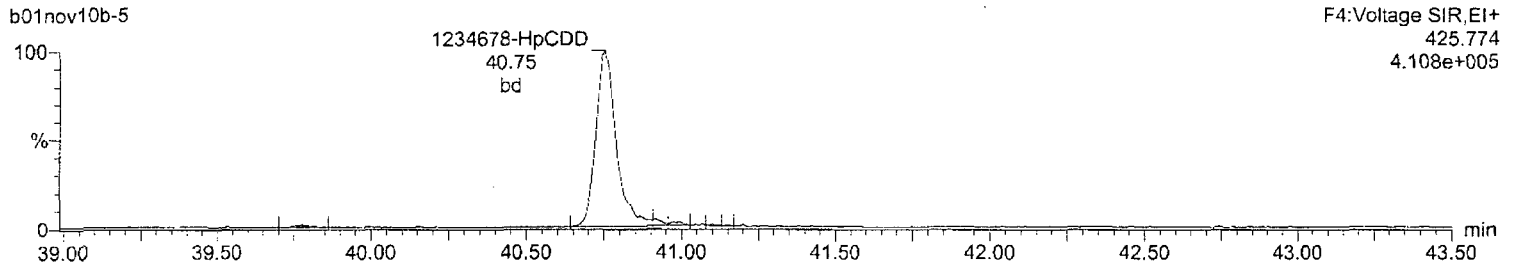
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

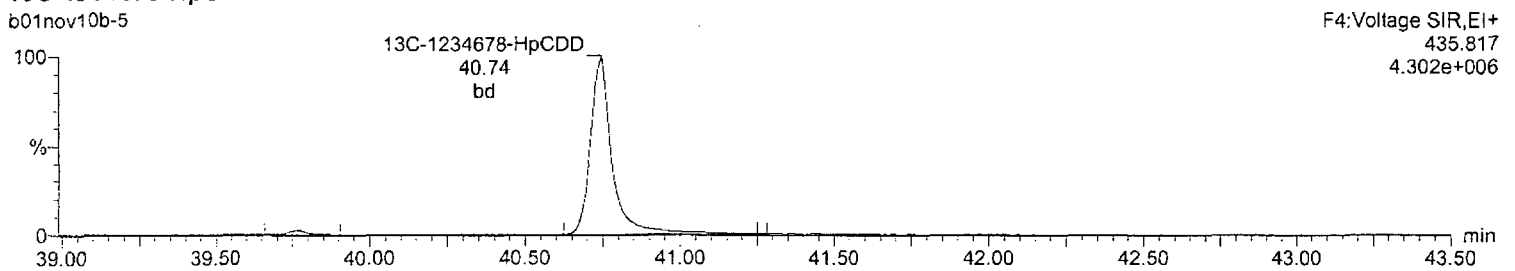
Total-heptadioxins



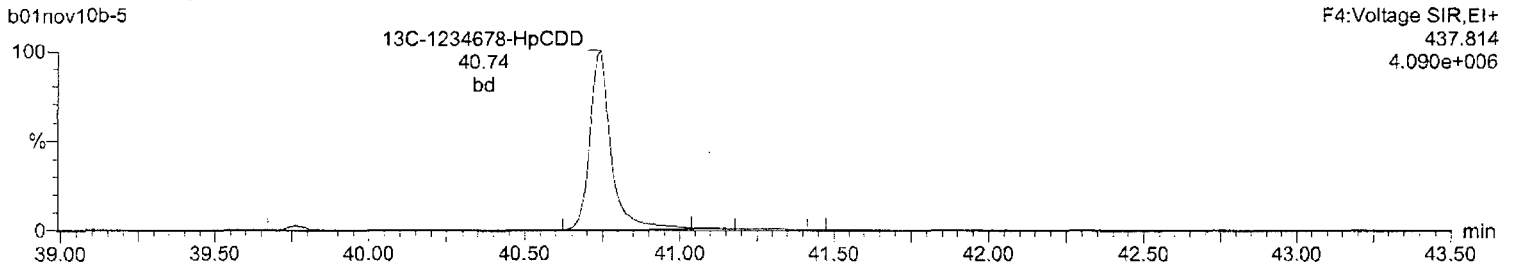
Total-heptadioxins



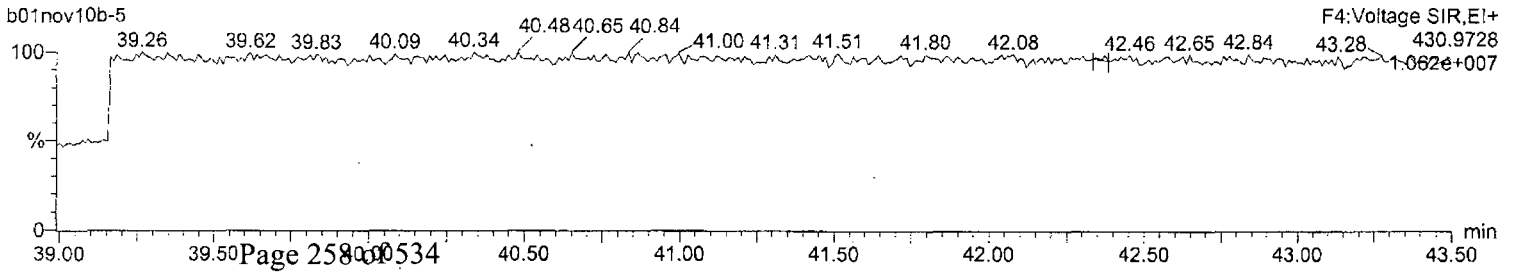
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



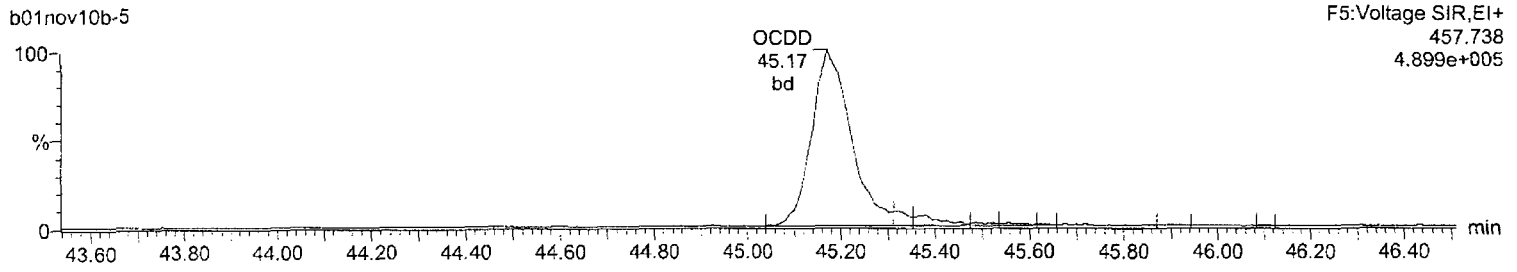
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

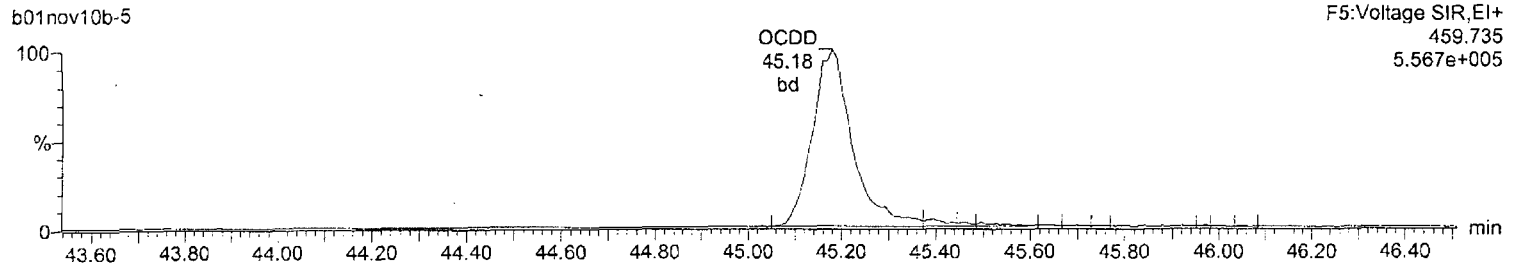
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

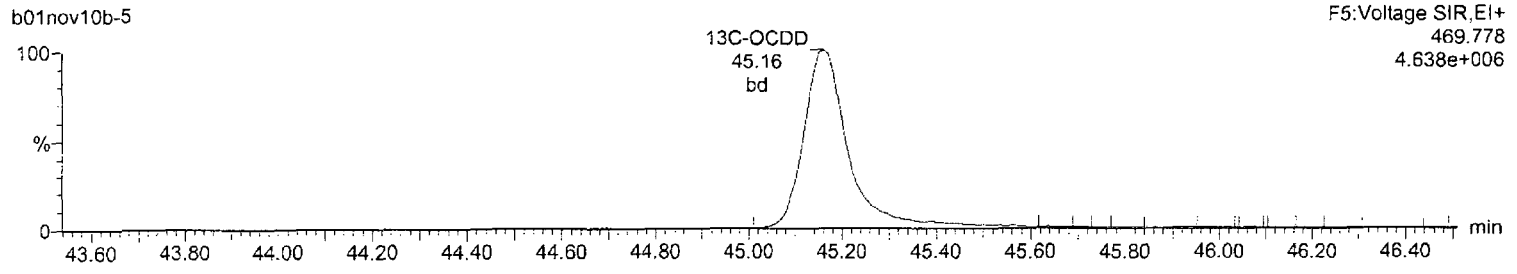
OCDD



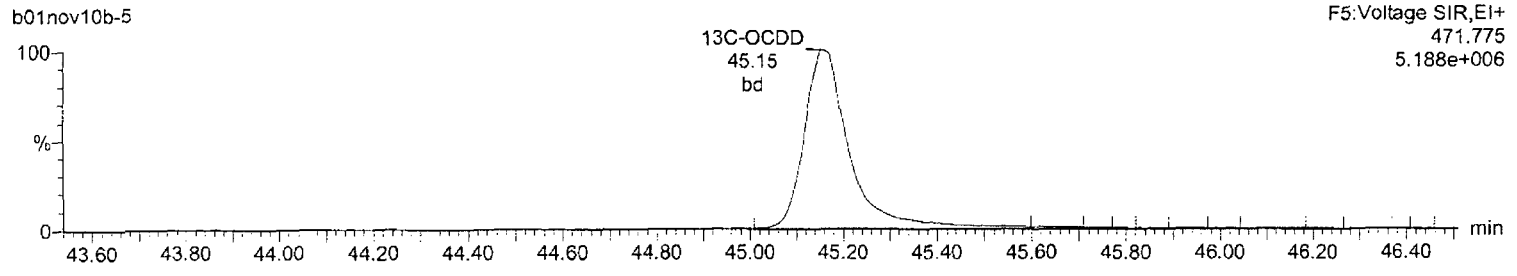
OCDD



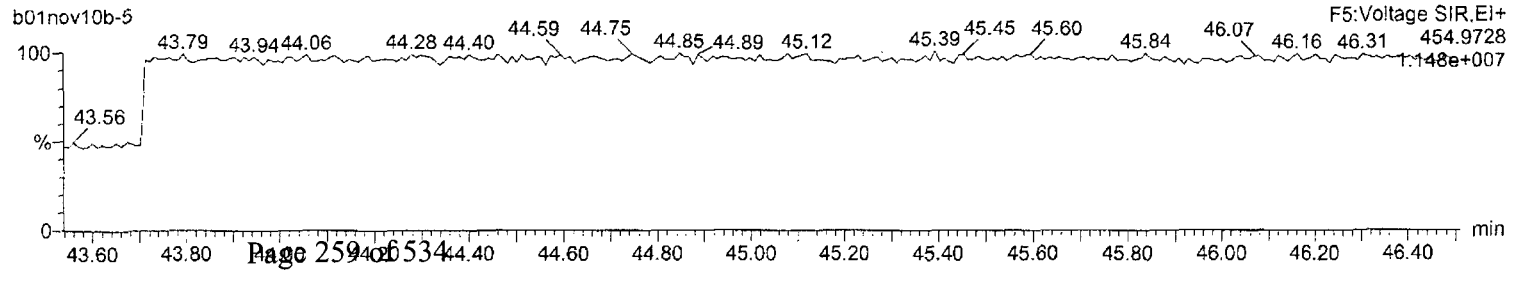
13C-OCDD



13C-OCDD



Lock Mass F5



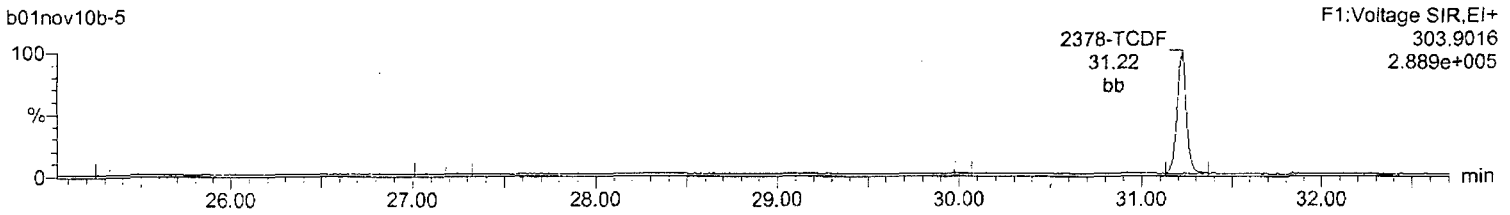
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

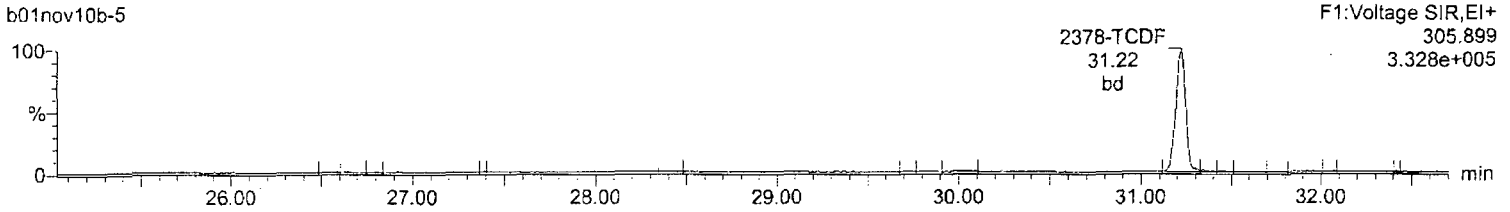
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

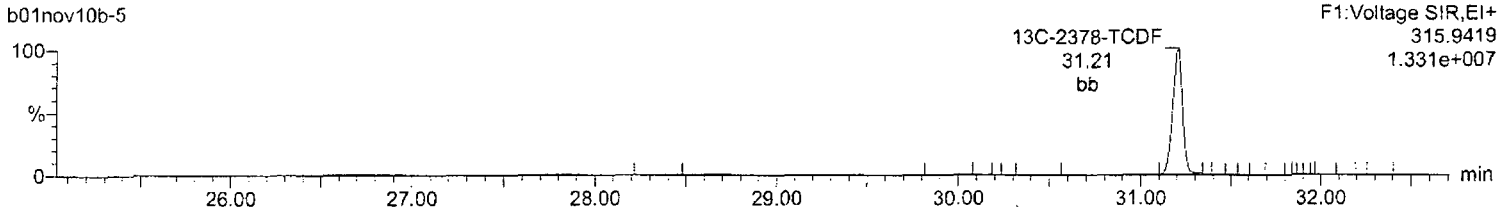
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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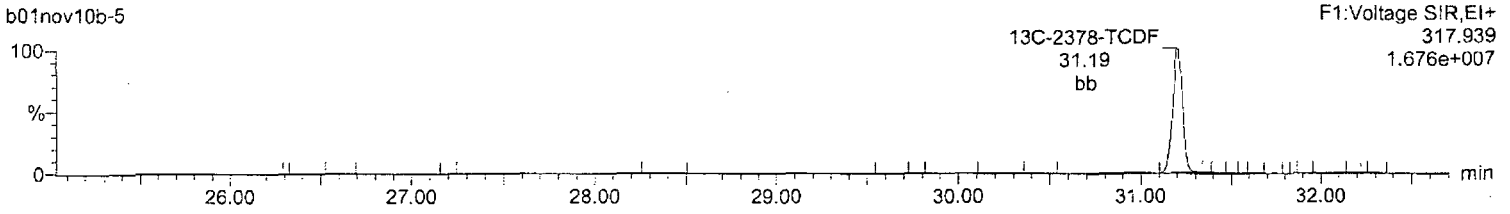
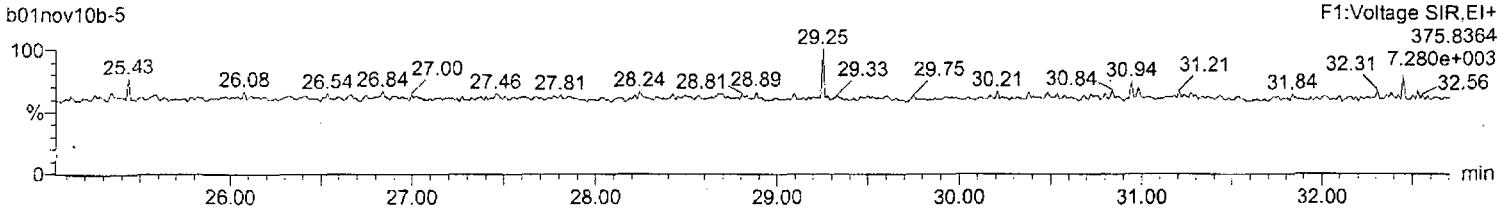
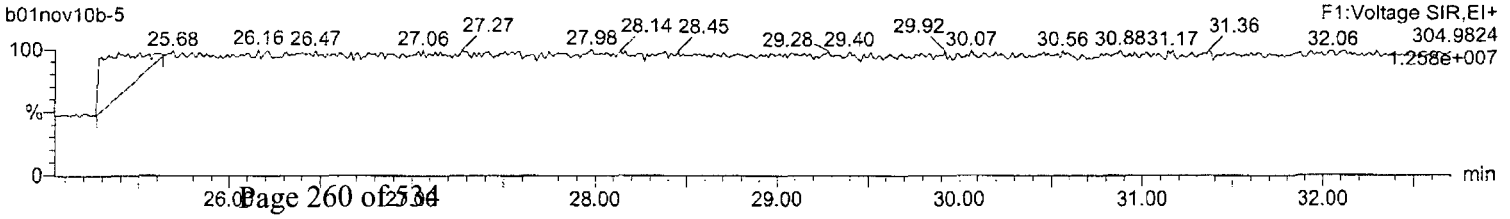


HxDPE



Lock Mass F1



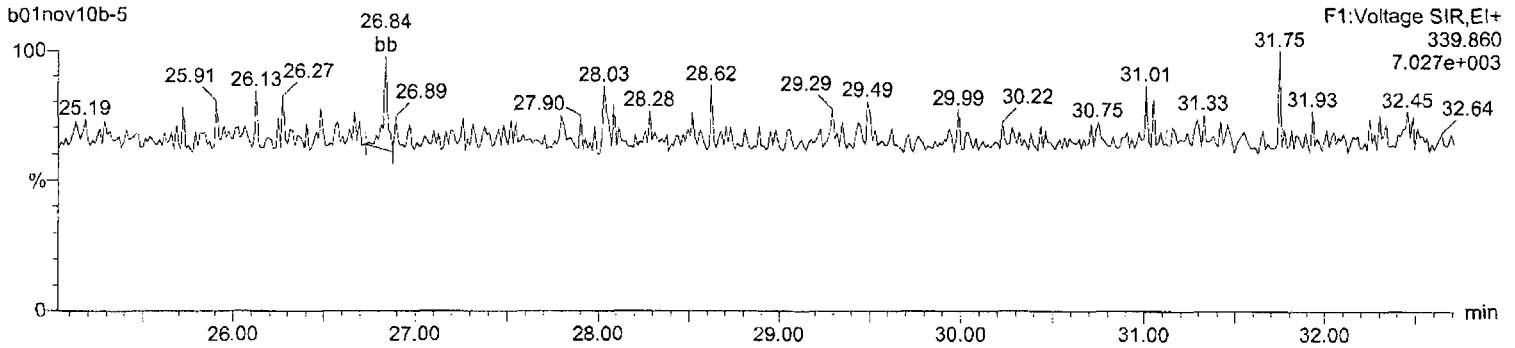
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

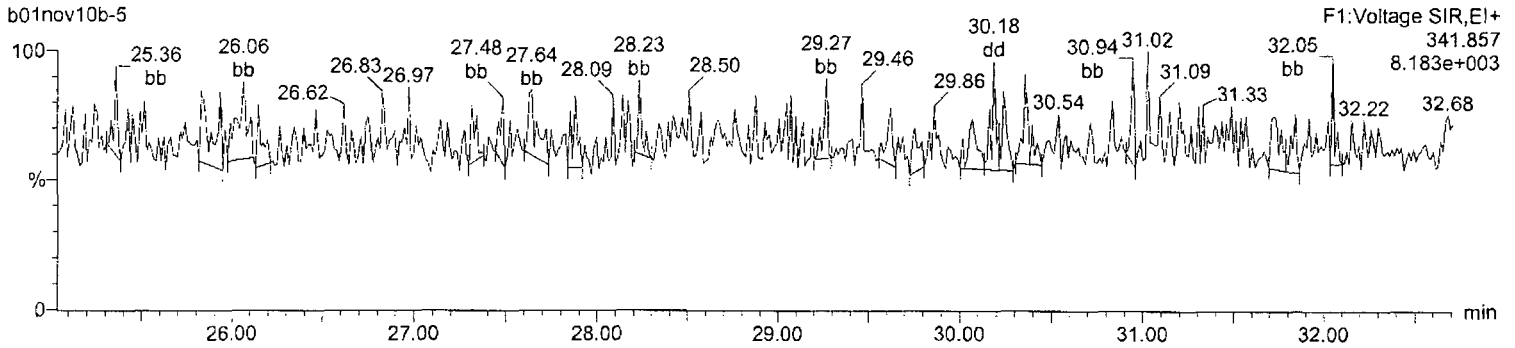
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

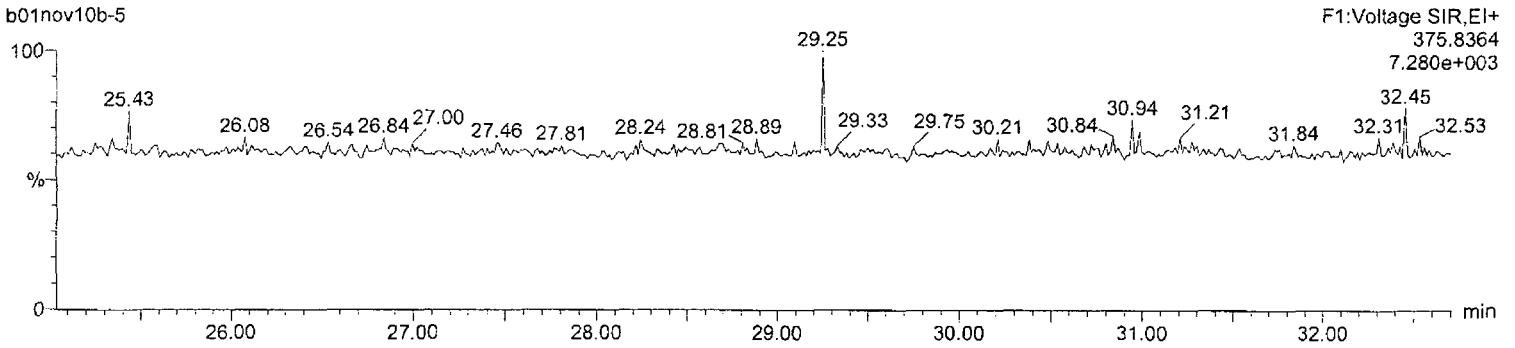
Total-pentafurans (F1)



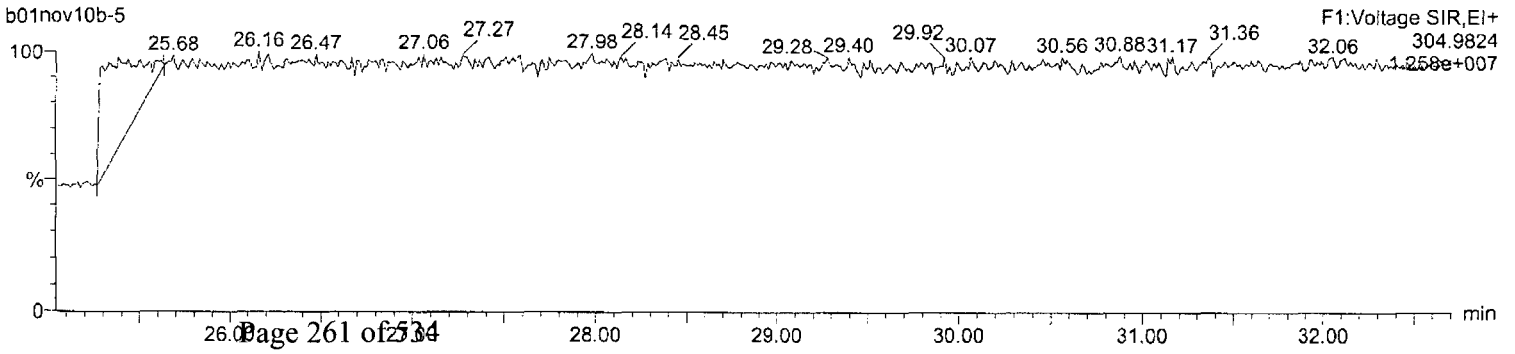
Total-pentafurans (F1)



HxDPE



Lock Mass F1



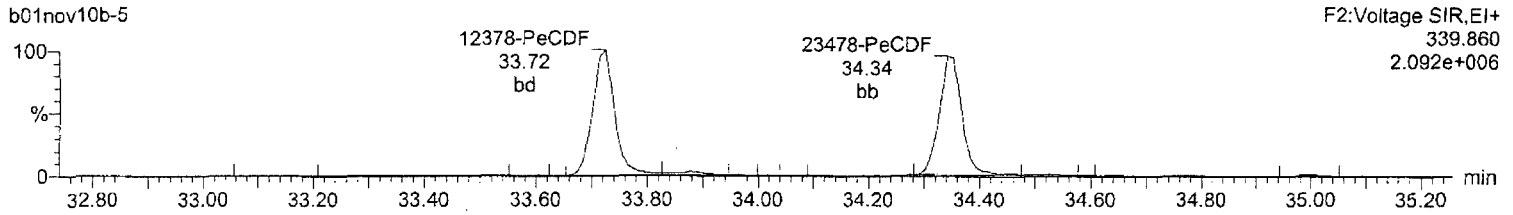
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

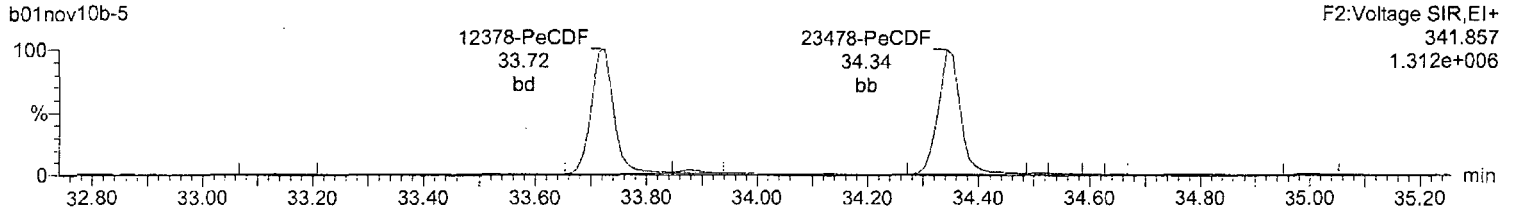
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

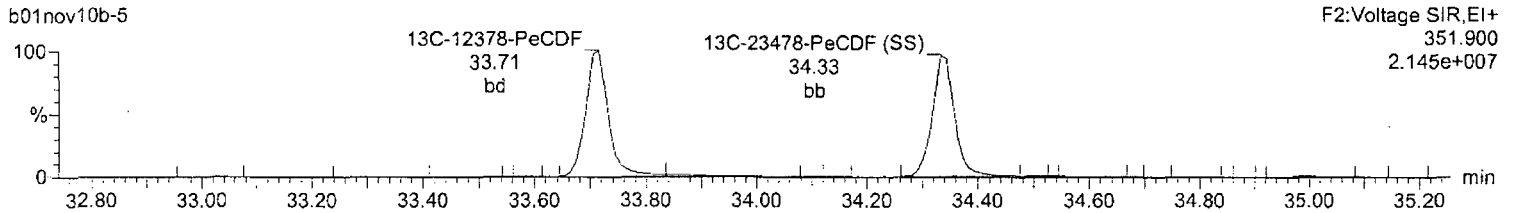
Total-pentafurans



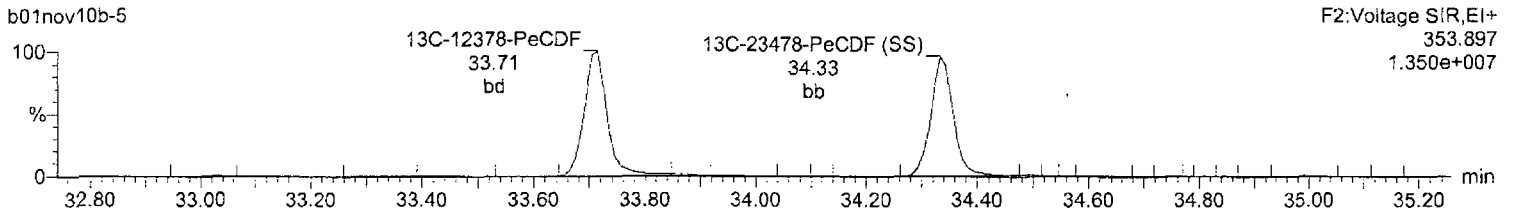
Total-pentafurans



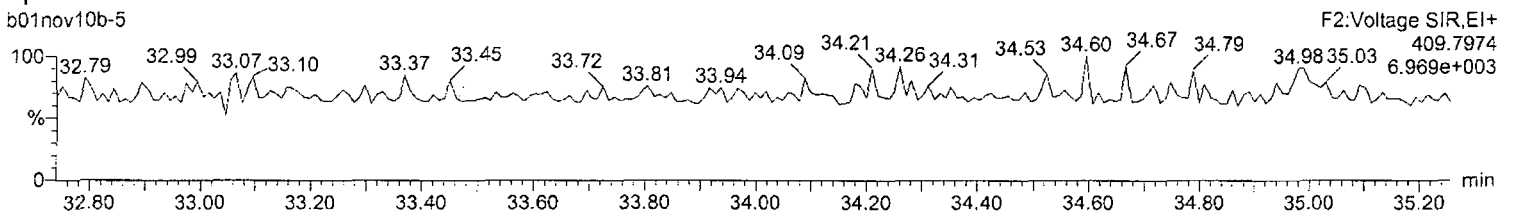
13C-12378-PeCDF



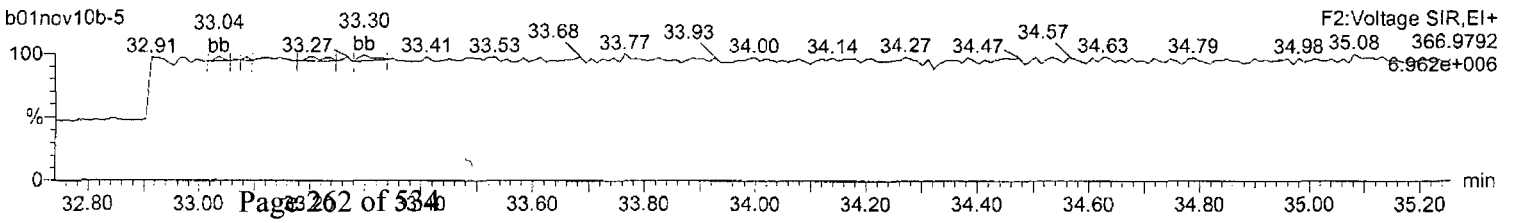
13C-12378-PeCDF



HpDPE



Lock Mass F2



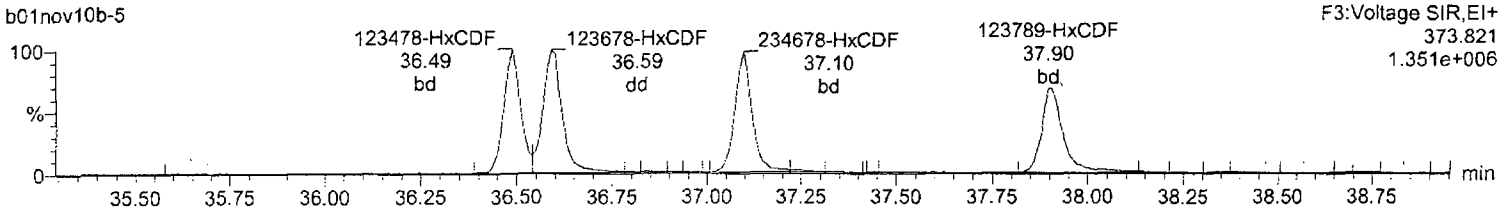
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

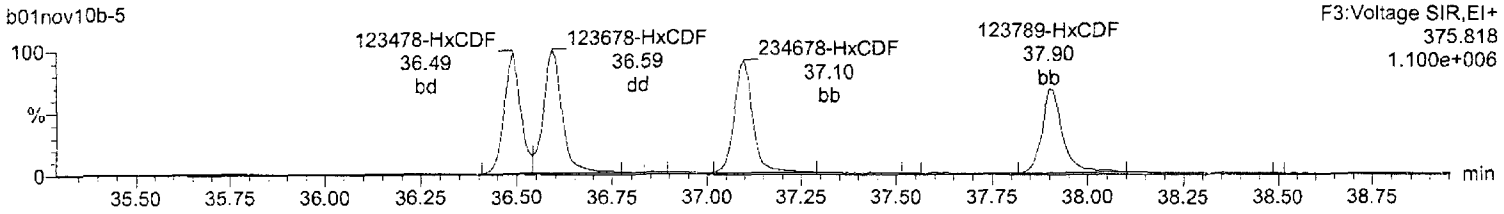
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

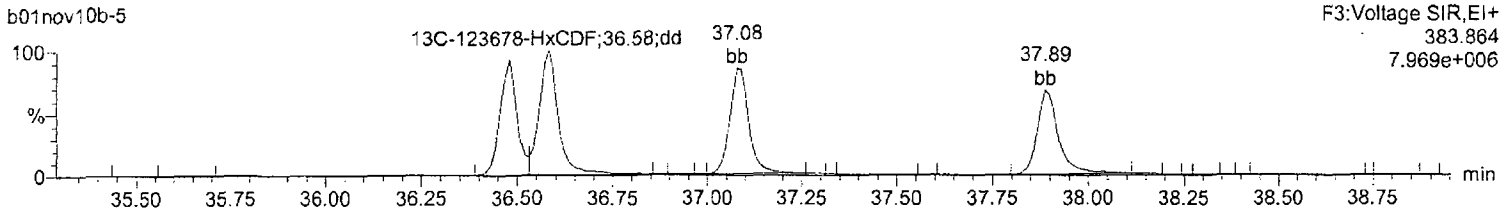
Total-hexafurans



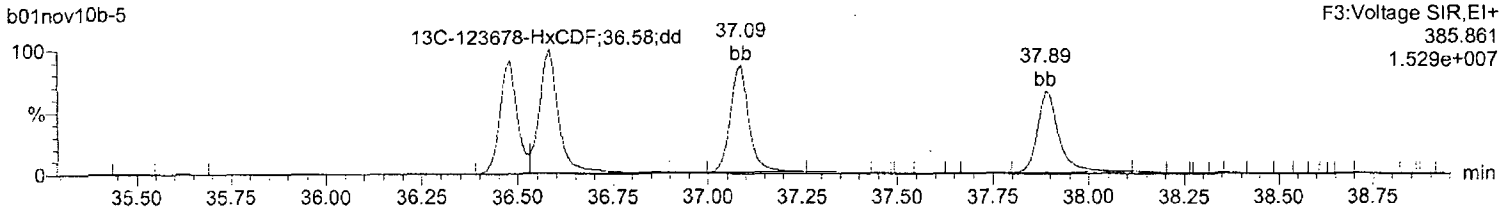
Total-hexafurans



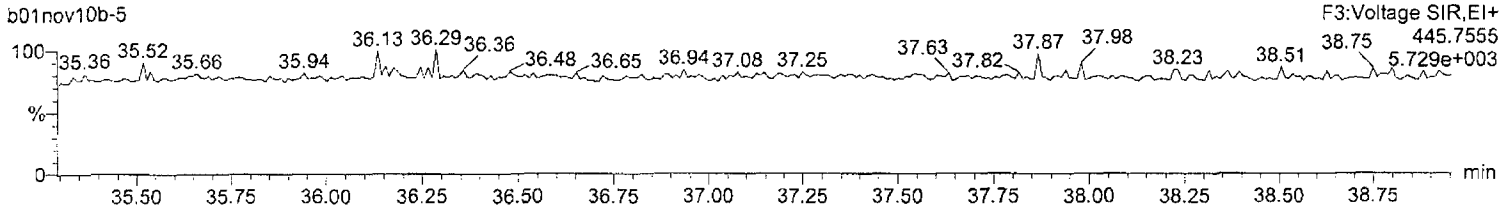
13C-123678-HxCDF



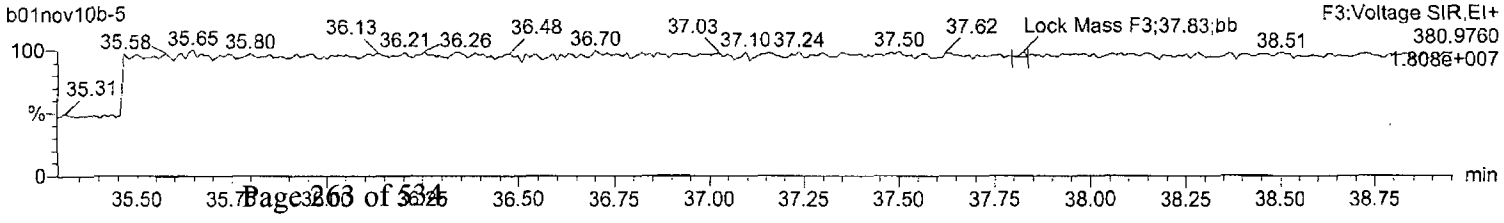
13C-123678-HxCDF



OcDPE



Lock Mass F3



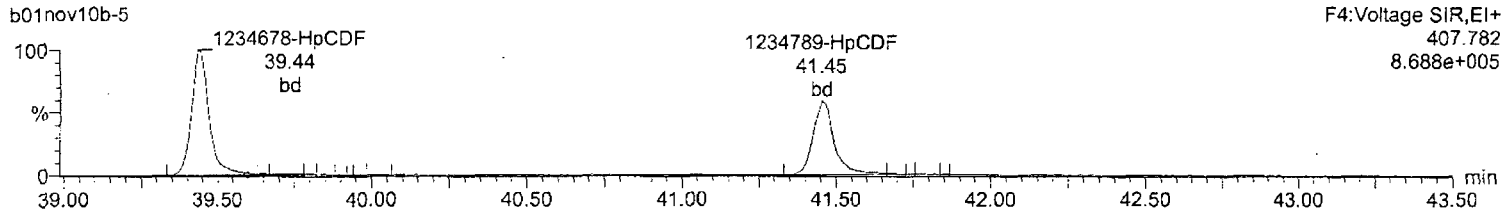
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

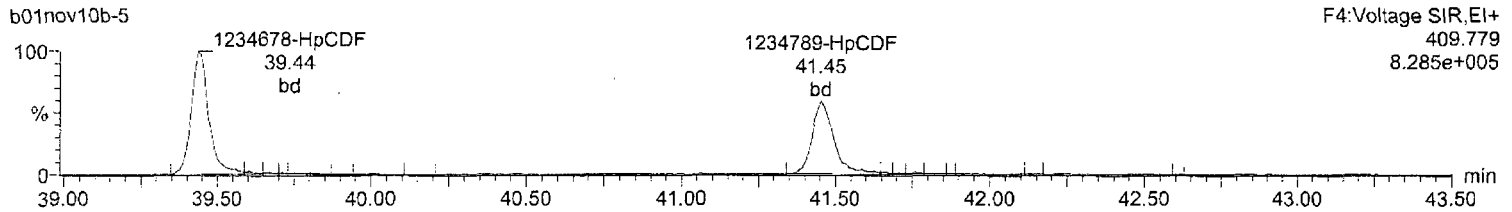
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

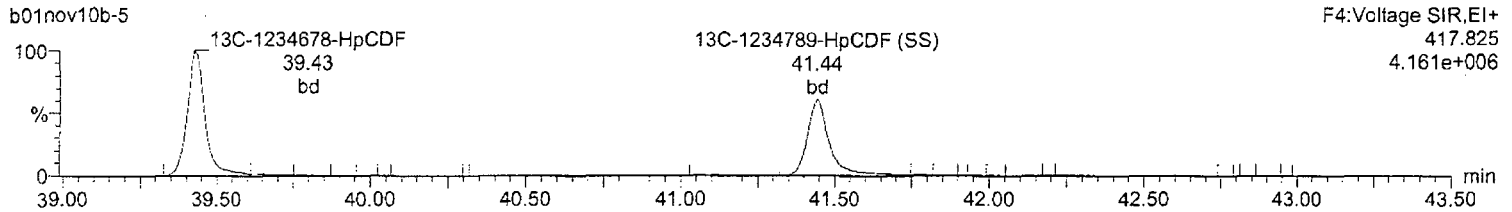
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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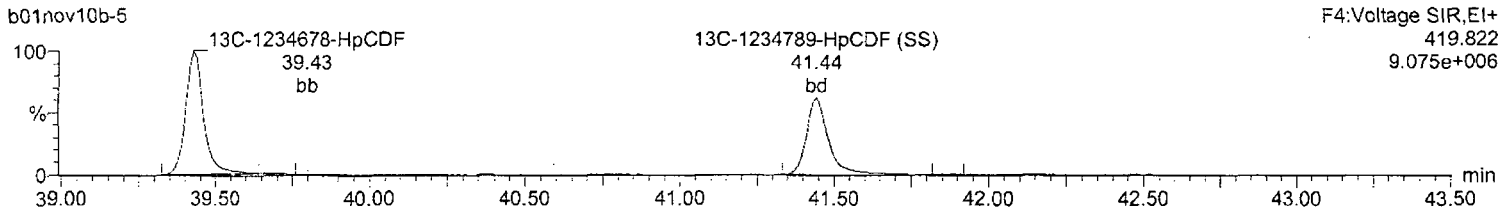
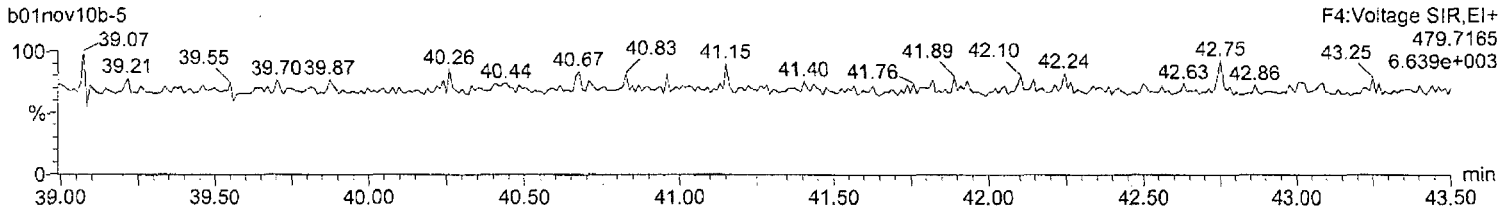
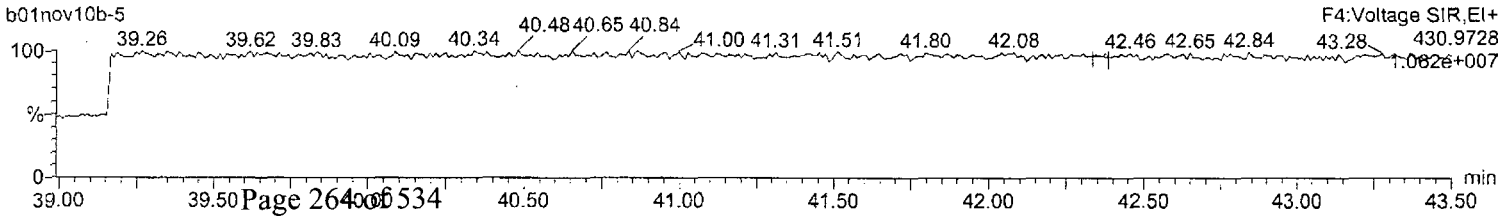


NoDPE



Lock Mass F4



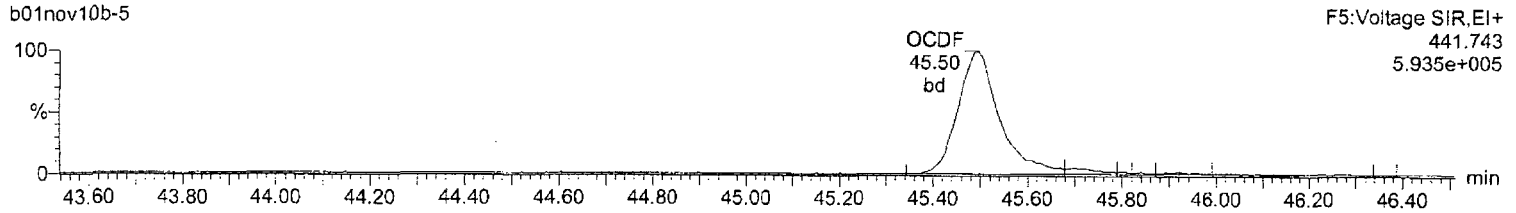
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

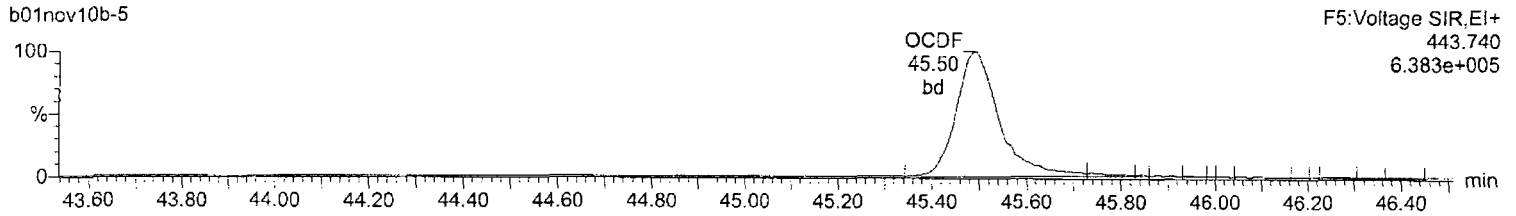
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-5, Date: 01-Nov-2010, Time: 20:53:05, ID: CS2 UD090323-03, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

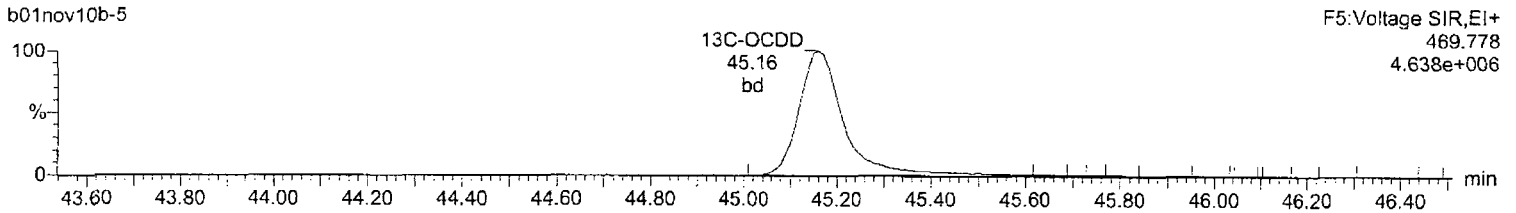
OCDF



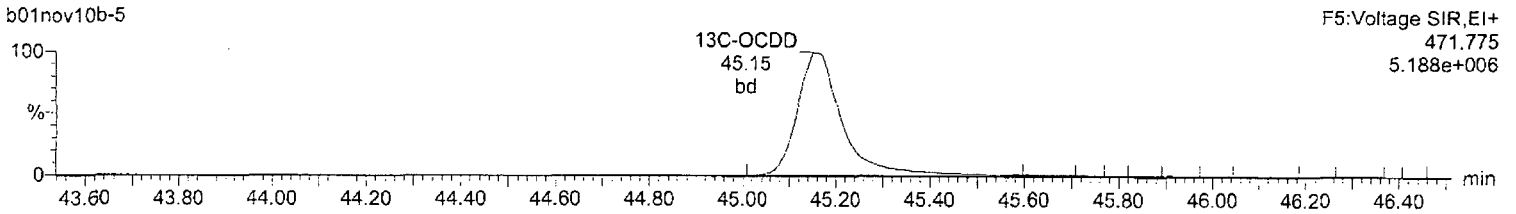
OCDF



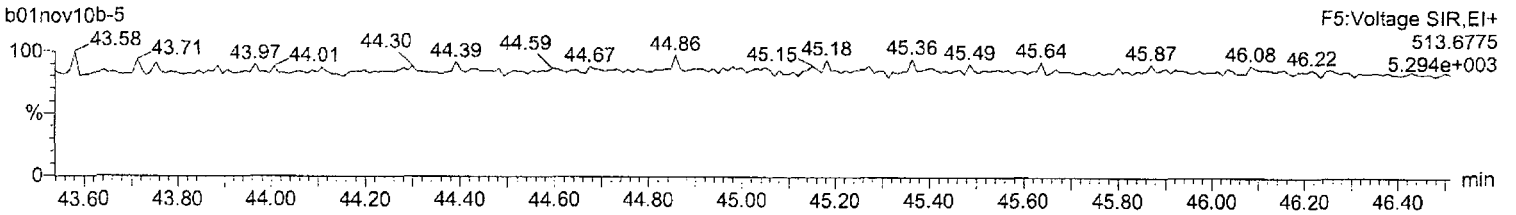
13C-OCDD



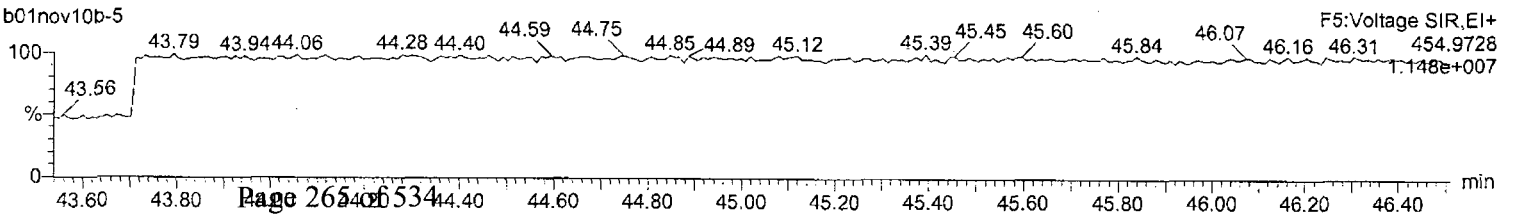
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.36e4	5.35e4	9.71e4	31.76	1.00	0.81	NO	9.813	0.994	0.0278	9.09e5	802	1132.5	1.12e6	1024	1095.4	bb
2	12378-PeCDD	2.72e5	1.78e5	4.50e5	34.56	1.00	1.53	NO	49.794	1.028	0.0685	5.68e6	2466	2303.1	3.60e6	1635	2203.3	bb
3	123478-HxCDD	2.11e5	1.67e5	3.79e5	37.24	1.00	1.26	NO	50.130	0.899	0.142	3.97e6	2884	1378.0	3.11e6	2940	1056.4	bd
4	123678-HxCDD	2.32e5	1.85e5	4.18e5	37.33	1.00	1.25	NO	51.203	0.991	0.131	3.98e6	2884	1381.6	3.05e6	2940	1038.5	db
5	123789-HxCDD	2.07e5	1.64e5	3.71e5	37.57	1.01	1.26	NO	50.852	0.880	0.147	3.38e6	2884	1173.2	2.63e6	2940	895.7	bd
6	1234678-HpCDD	1.56e5	1.53e5	3.09e5	40.76	1.00	1.02	NO	51.460	1.034	0.219	2.04e6	2559	799.0	1.96e6	2788	703.7	bb
7	OCDD	2.41e5	2.72e5	5.14e5	45.19	1.00	0.89	NO	104.545	1.041	0.503	2.34e6	4871	480.1	2.55e6	2486	1024.0	bd
8	2378-TCDF	7.33e4	9.55e4	1.69e5	31.22	1.00	0.77	NO	10.207	1.004	0.0239	1.22e6	742	1646.3	1.59e6	1392	1145.7	bb
9	12378-PeCDF	4.60e5	2.94e5	7.55e5	33.72	1.00	1.56	NO	51.618	0.964	0.107	9.88e6	5587	1768.0	6.39e6	5255	1215.5	bd
10	23478-PeCDF	4.43e5	2.86e5	7.29e5	34.35	1.02	1.55	NO	50.981	0.932	0.109	9.61e6	5587	1720.7	6.36e6	5255	1209.8	bb
11	123478-HxCDF	3.20e5	2.61e5	5.81e5	36.50	1.00	1.23	NO	49.277	0.896	0.222	6.13e6	7007	874.9	4.82e6	7499	642.7	bd
12	123678-HxCDF	3.83e5	3.10e5	6.92e5	36.60	1.00	1.24	NO	50.472	1.068	0.190	6.73e6	7007	959.9	5.25e6	7499	700.2	dd
13	234678-HxCDF	3.34e5	2.66e5	6.00e5	37.10	1.01	1.26	NO	48.415	0.925	0.211	5.69e6	7007	812.0	4.56e6	7499	608.1	bd
14	123789-HxCDF	2.78e5	2.21e5	4.99e5	37.91	1.04	1.26	NO	48.586	0.769	0.254	4.23e6	7007	603.9	3.33e6	7499	444.3	bd
15	1234678-HpCDF	2.74e5	2.70e5	5.44e5	39.45	1.00	1.02	NO	52.406	1.338	0.174	4.07e6	4755	855.3	3.92e6	4023	974.1	bb
16	1234789-HpCDF	1.97e5	1.91e5	3.88e5	41.46	1.05	1.03	NO	51.340	0.955	0.238	2.48e6	4755	520.8	2.31e6	4023	573.7	bd
17	OCDF	2.99e5	3.30e5	6.29e5	45.52	1.01	0.91	NO	103.426	1.275	0.343	2.70e6	3045	887.4	3.06e6	3174	963.5	bd
18	13C-2378-TCDD	4.31e5	5.46e5	9.77e5	31.75	1.01	0.79	NO	94.508	1.058	0.0668	8.58e6	2533	3388.7	1.06e7	1390	7641.2	bb
19	13C-12378-PeCDD	5.33e5	3.42e5	8.75e5	34.55	1.10	1.56	NO	99.737	0.948	0.0931	1.06e7	2695	3934.1	6.68e6	1943	3436.0	bd
20	13C-123678-HxCDD	4.67e5	3.76e5	8.43e5	37.32	0.99	1.24	NO	103.322	1.149	0.127	7.63e6	2726	2799.1	6.15e6	2779	2212.8	db
21	13C-1234678-HpCDD	3.07e5	2.91e5	5.98e5	40.75	1.08	1.06	NO	101.824	0.815	0.224	3.74e6	3745	999.6	3.65e6	3265	1116.5	bd
22	13C-OCDD	4.75e5	5.12e5	9.87e5	45.17	1.20	0.93	NO	201.316	0.673	0.239	4.25e6	3735	1137.2	4.67e6	2506	1864.2	bd
23	13C-2378-TCDF	7.45e5	9.36e5	1.68e6	31.21	1.00	0.80	NO	99.979	1.821	0.0350	1.21e7	1741	6948.1	1.51e7	1604	9440.6	bb
24	13C-12378-PeCDF	9.58e5	6.07e5	1.56e6	33.71	1.08	1.58	NO	100.115	1.694	0.177	1.99e7	9477	2100.2	1.29e7	6263	2059.5	bd
25	13C-123678-HxCDF	4.46e5	8.51e5	1.30e6	36.59	0.97	0.52	NO	108.432	1.768	0.200	7.43e6	5737	1295.0	1.41e7	7020	2009.9	dd
26	13C-1234678-HpCDF	2.56e5	5.57e5	8.13e5	39.44	1.05	0.46	NO	102.529	1.108	0.191	3.74e6	3705	1009.3	8.22e6	4346	1891.0	bd
27	13C-1234-TCDD	4.10e5	5.14e5	9.24e5	31.34	0.00	0.80	NO	100.000	1.000	0.0748	6.98e6	2533	2756.3	8.95e6	1390	6438.0	bb
28	13C-123789-HxCDD	4.05e5	3.29e5	7.34e5	37.56	0.00	1.23	NO	100.000	1.000	0.141	6.47e6	2726	2374.6	5.12e6	2779	1841.0	bb
29	37Cl-2378-TCDD (SS)	1.01e5		1.01e5	31.76	1.00			9.840	1.037	0.0187	2.06e6	1281	1606.4				bb
30	13C-23478-PeCDF (SS)	8.86e5	5.58e5	1.44e6	34.34	1.02	1.59	NO	98.872	0.923	0.156	1.92e7	9477	2024.5	1.23e7	6263	1968.3	bb
31	13C-123478-HxCDF (SS)	3.37e5	6.52e5	9.90e5	36.49	1.00	0.52	NO	94.211	0.763	0.219	6.42e6	5737	1119.3	1.26e7	7020	1797.6	bd
32	13C-123478-HxCDD (SS)	4.03e5	3.21e5	7.25e5	37.22	1.00	1.25	NO	99.836	0.860	0.139	7.26e6	2726	2665.0	5.72e6	2779	2057.8	bd
33	13C-1234789-HpCDF (SS)	1.86e5	4.22e5	6.08e5	41.45	1.05	0.44	NO	98.952	0.748	0.269	2.25e6	3705	607.6	5.11e6	4346	1176.1	bd

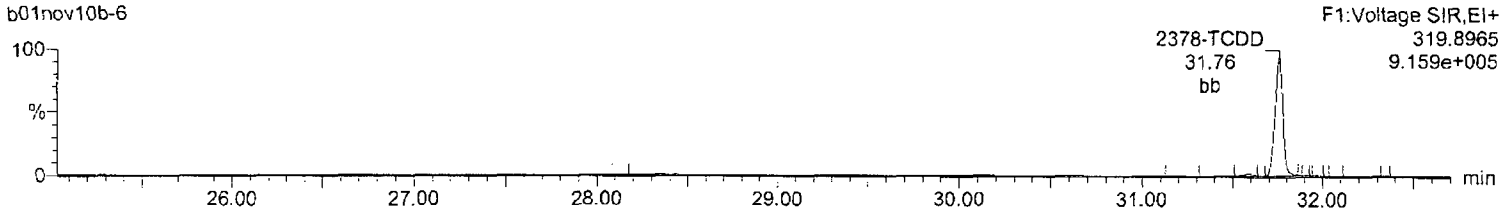
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

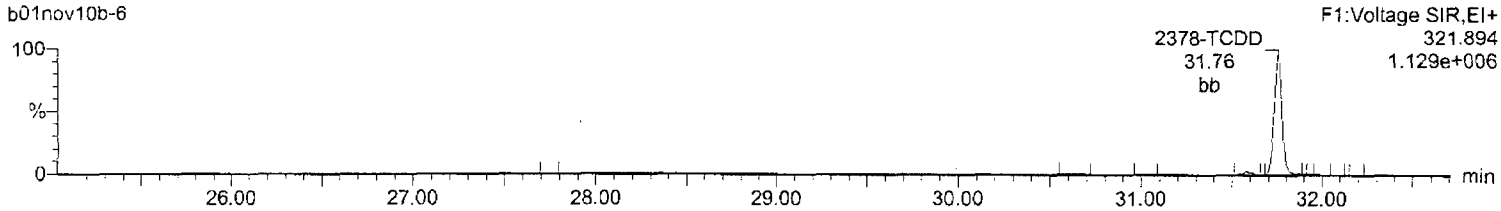
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

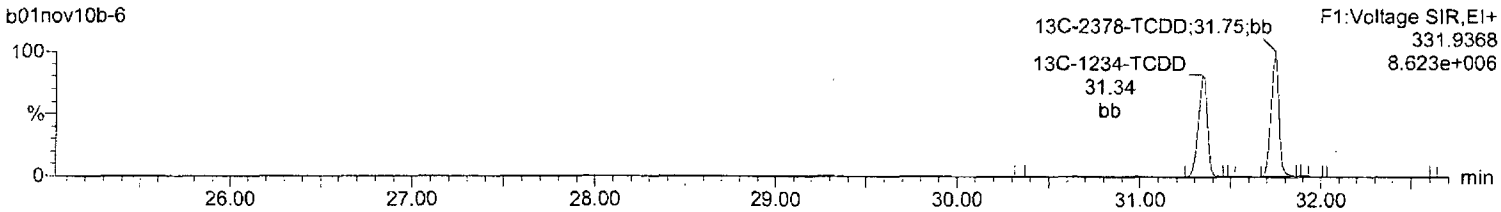
Total-tetradioxins



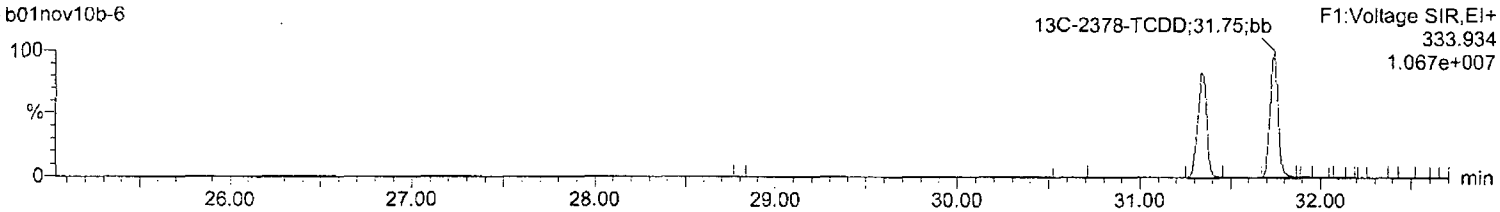
Total-tetradioxins



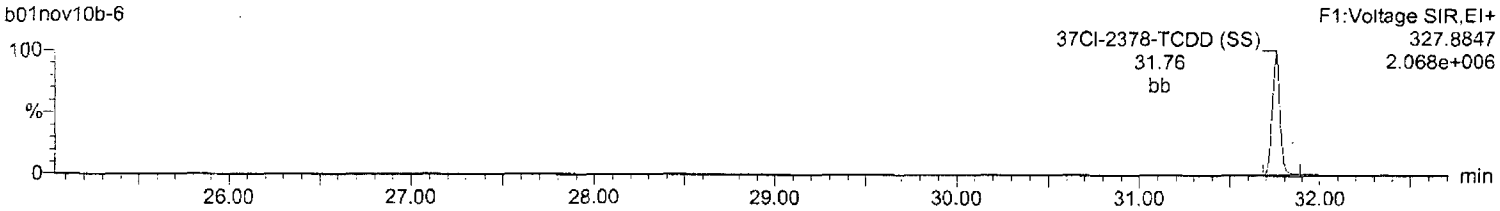
13C-2378-TCDD



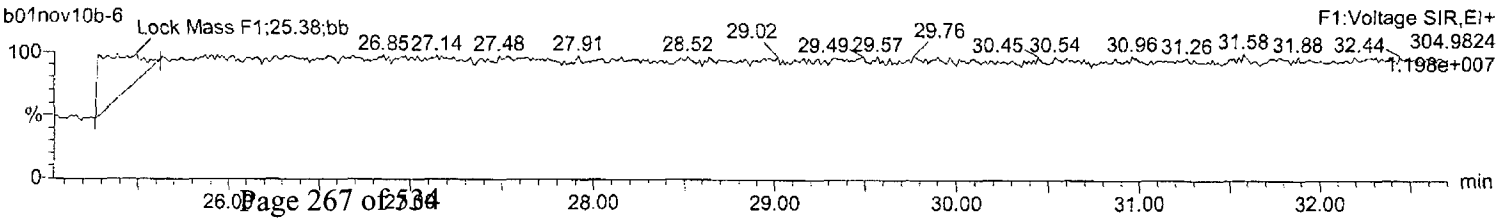
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



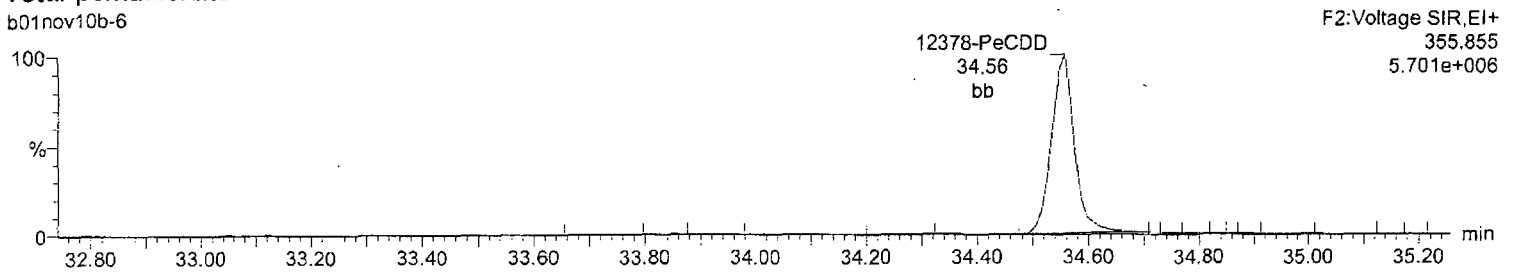
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

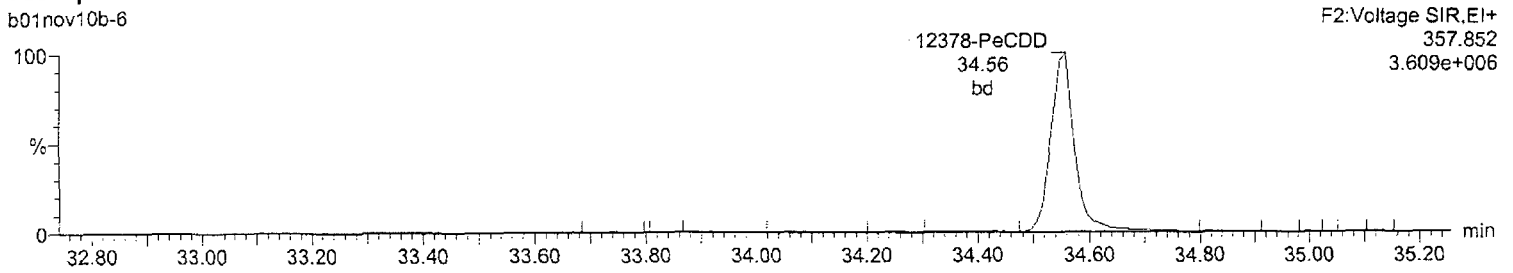
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

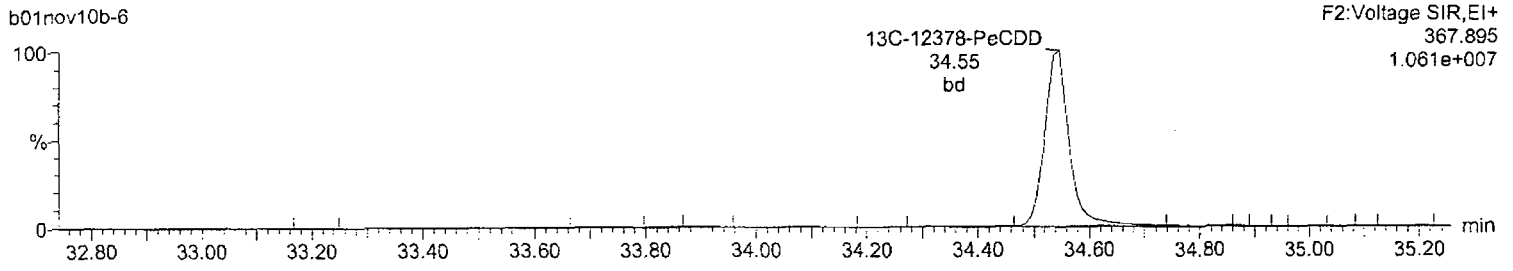
Total-pentadioxins



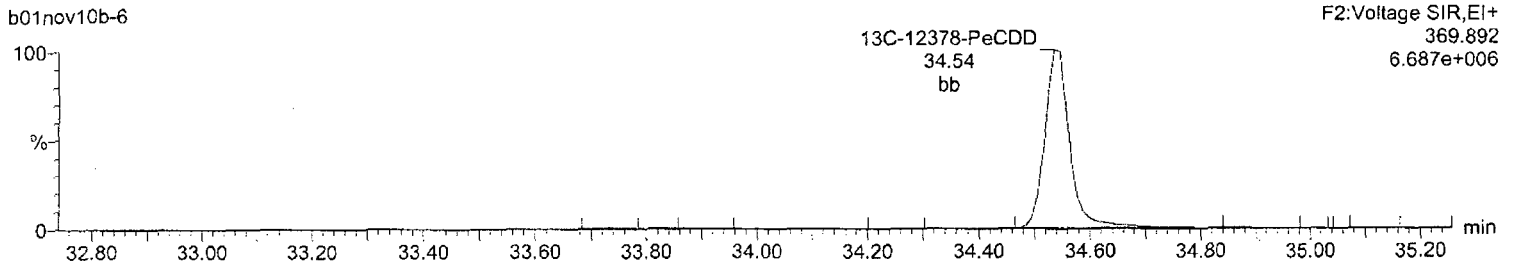
Total-pentadioxins



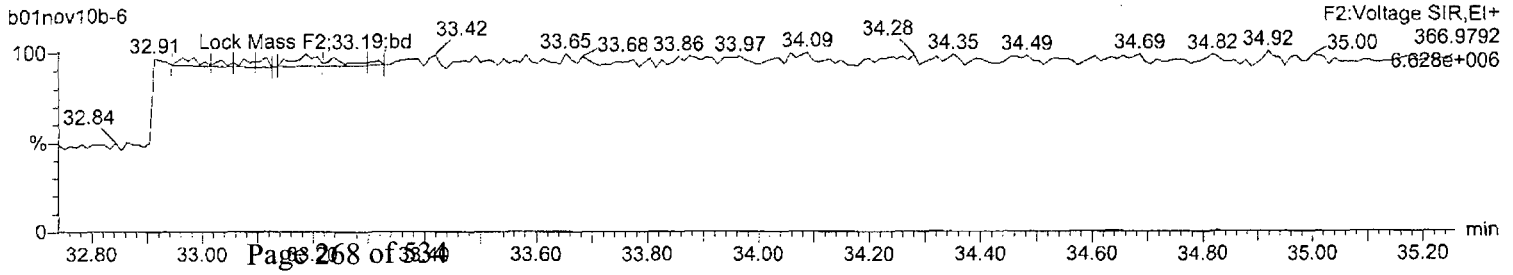
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



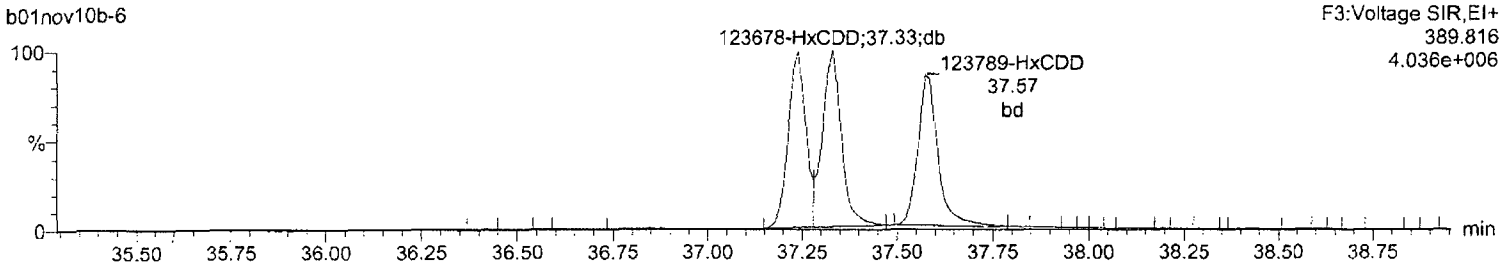
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

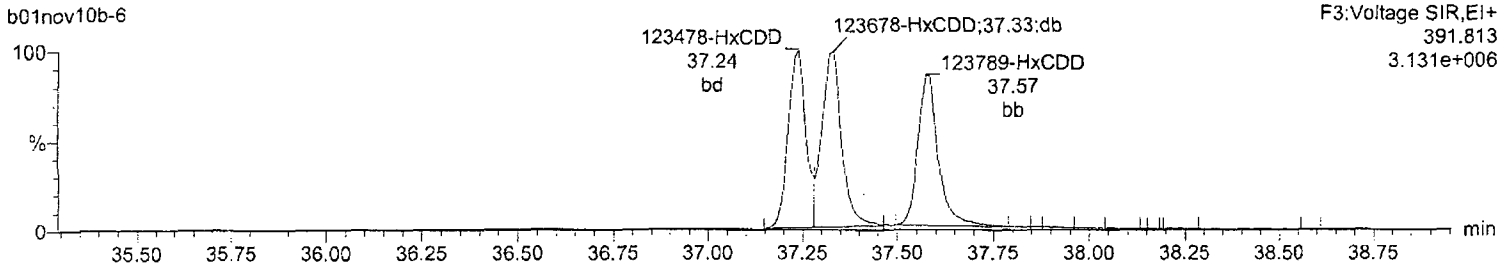
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

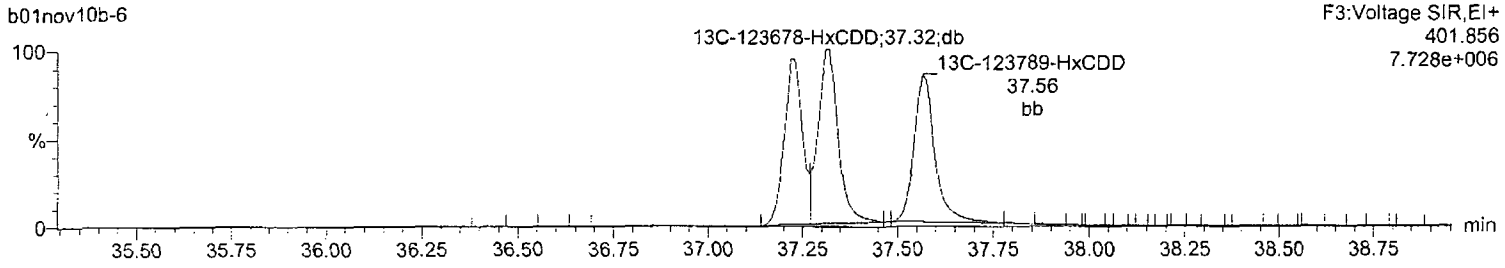
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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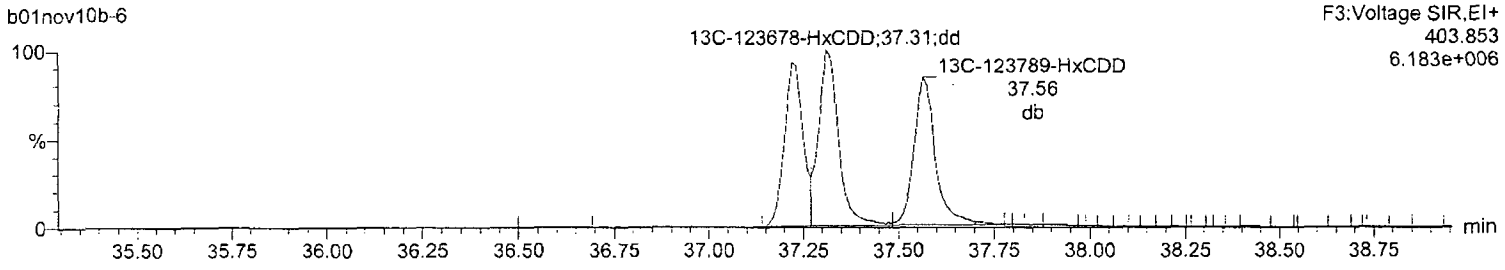
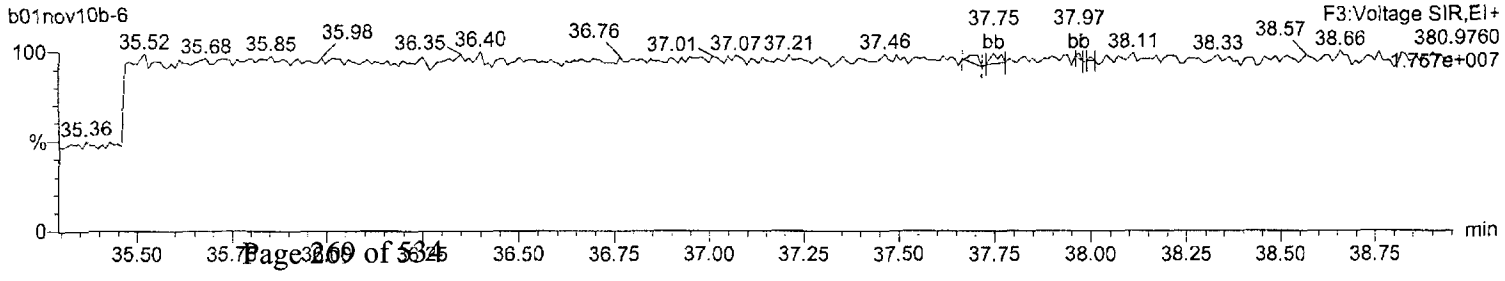


Lock Mass F3



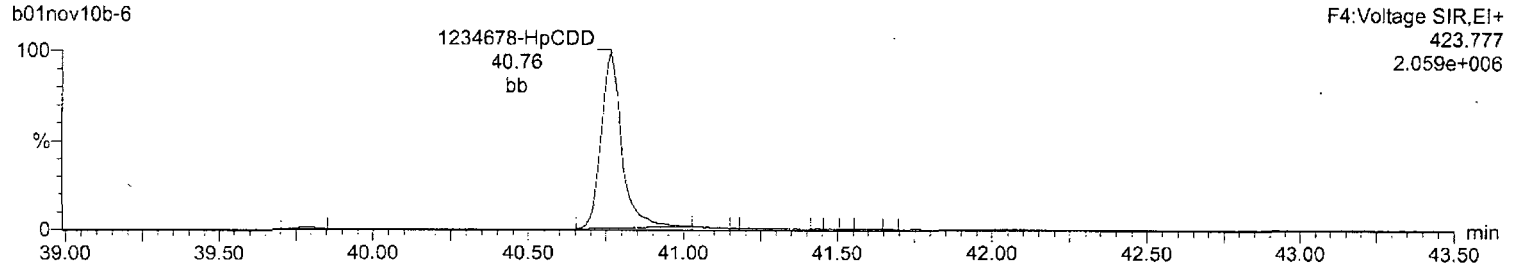
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

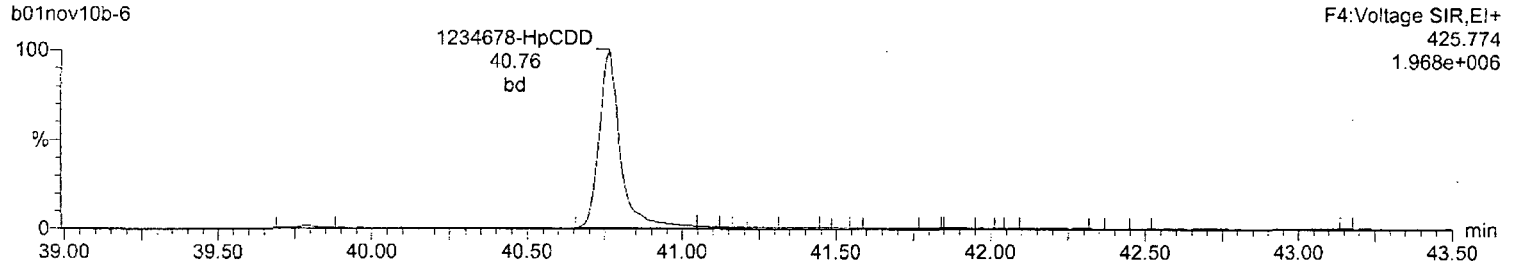
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

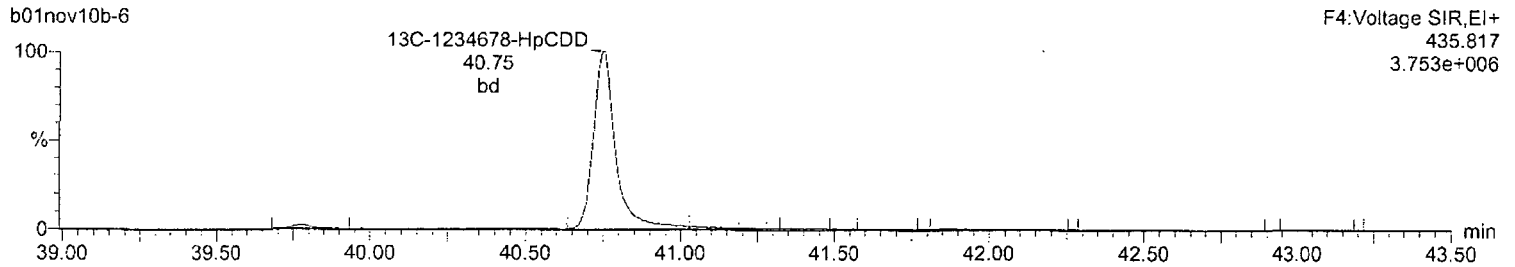
Total-heptadioxins



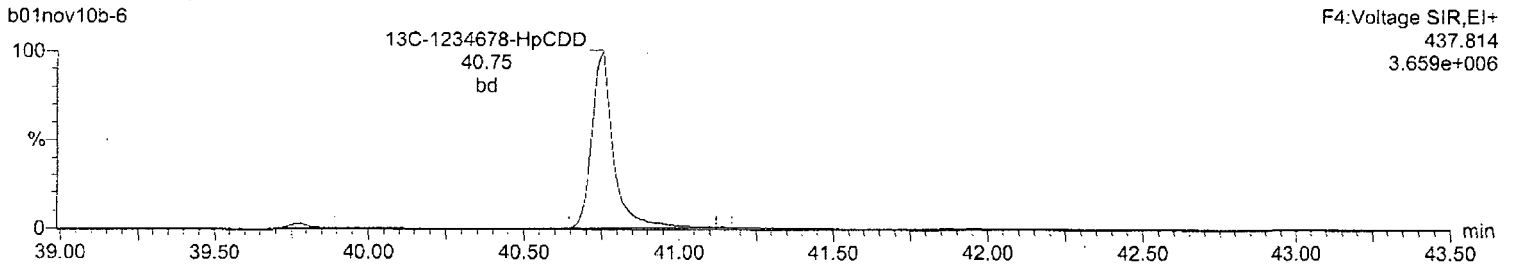
Total-heptadioxins



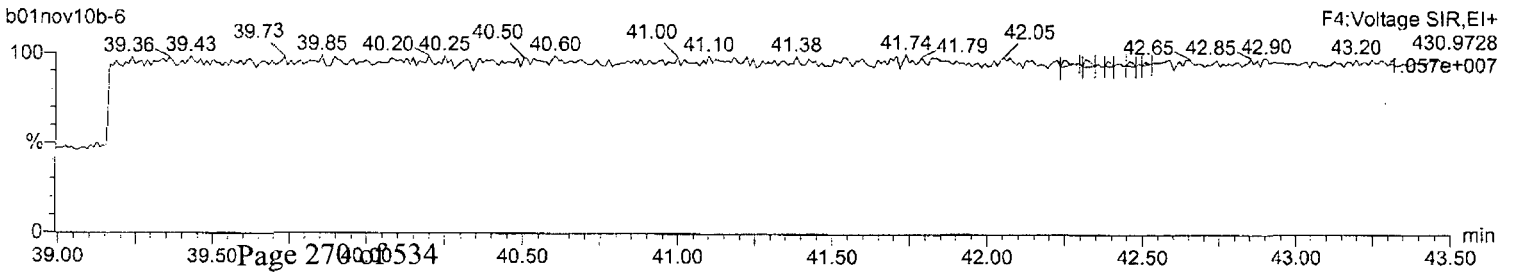
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



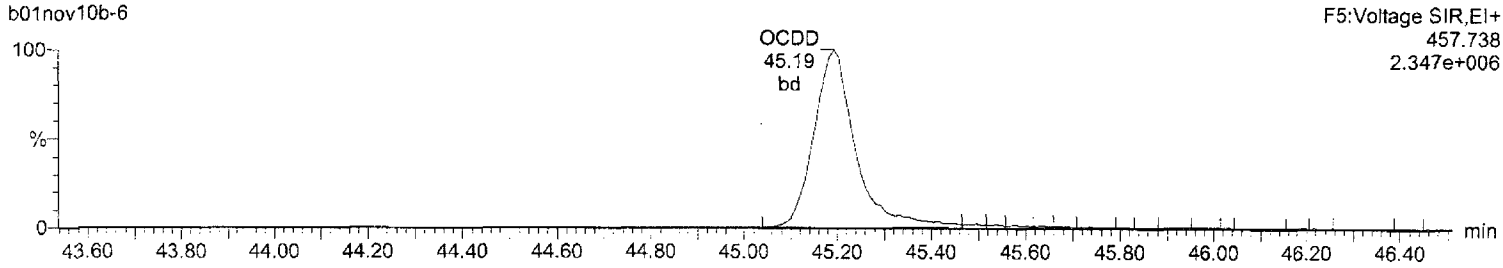
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

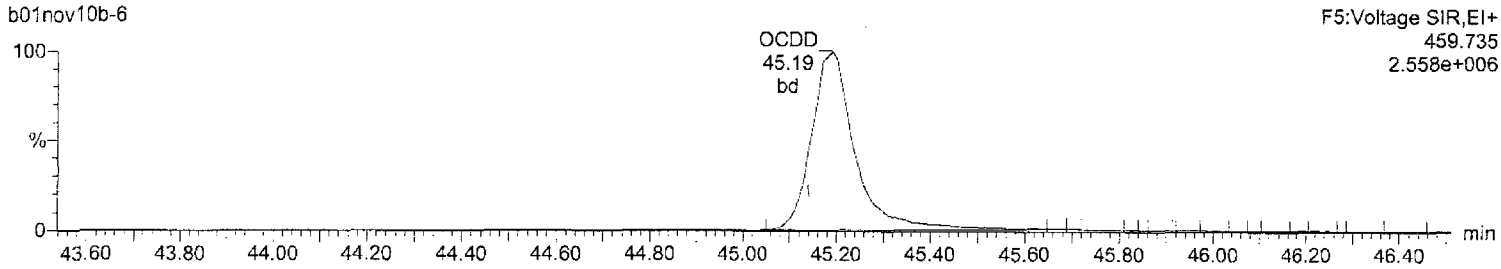
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

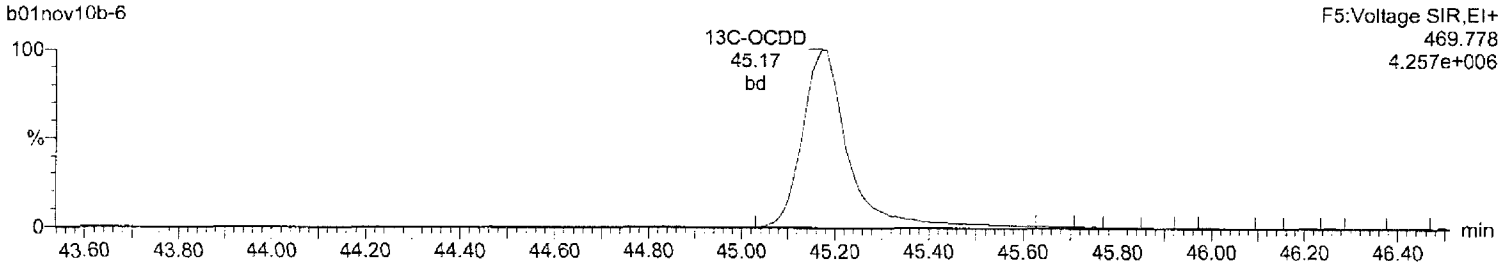
OCDD



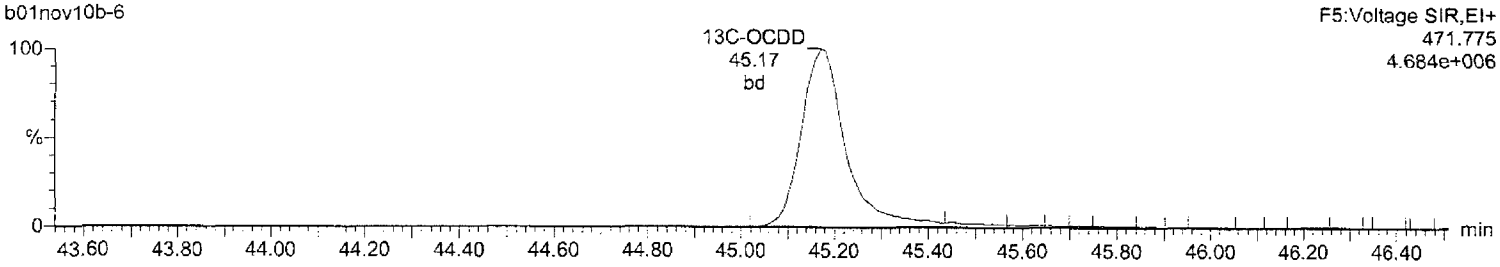
OCDD



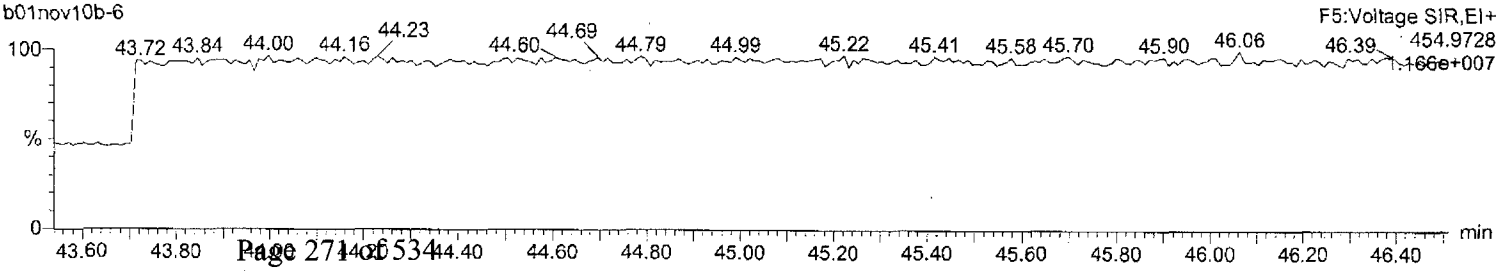
13C-OCDD



13C-OCDD



Lock Mass F5



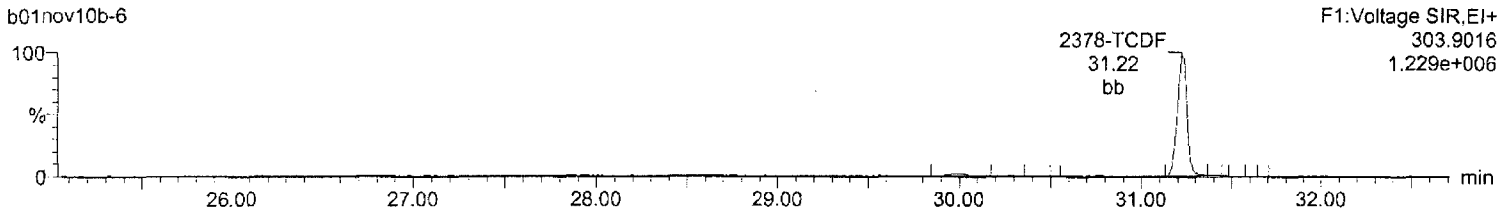
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

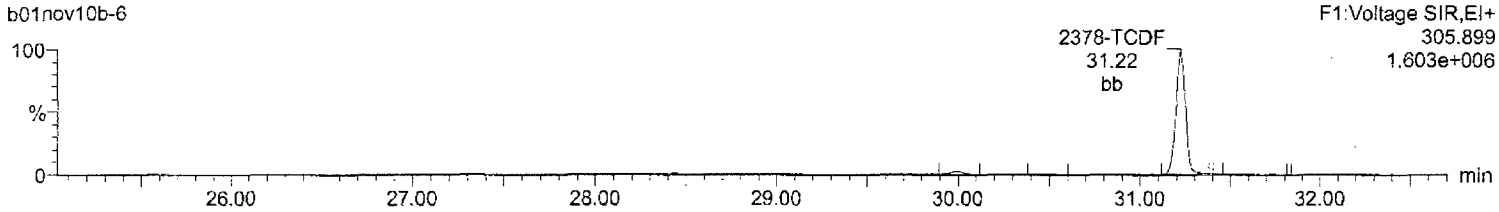
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

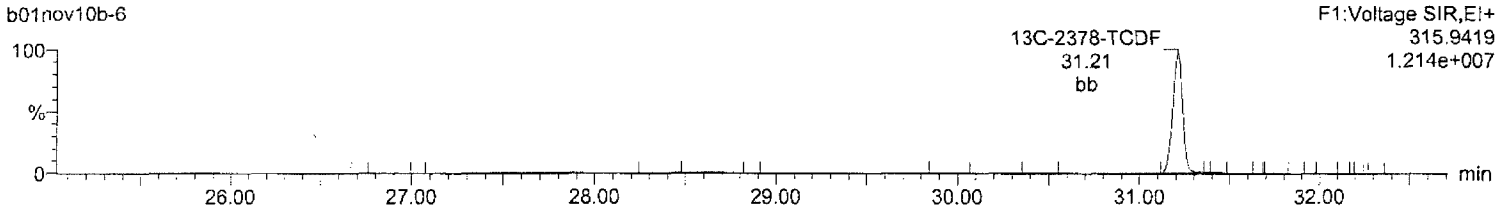
Total-tetrafurans



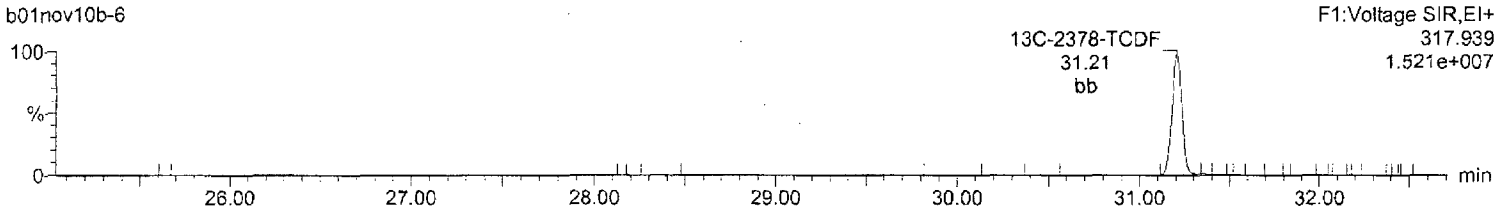
Total-tetrafurans



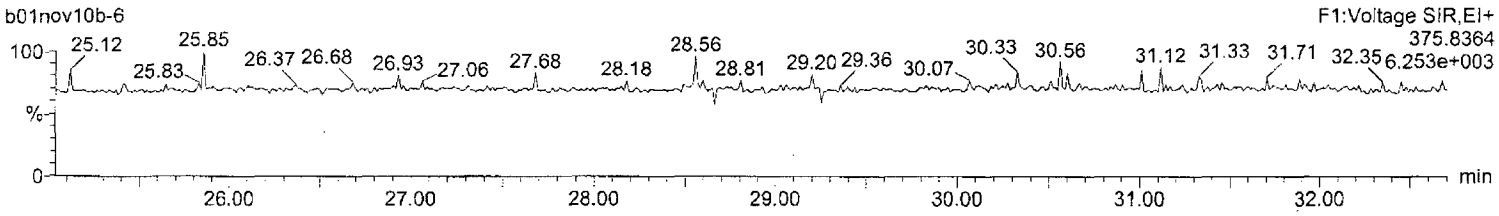
13C-2378-TCDF



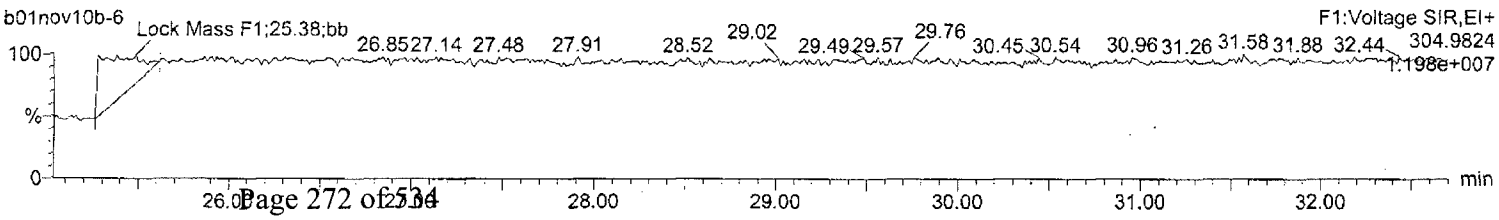
13C-2378-TCDF



HxDPE



Lock Mass F1



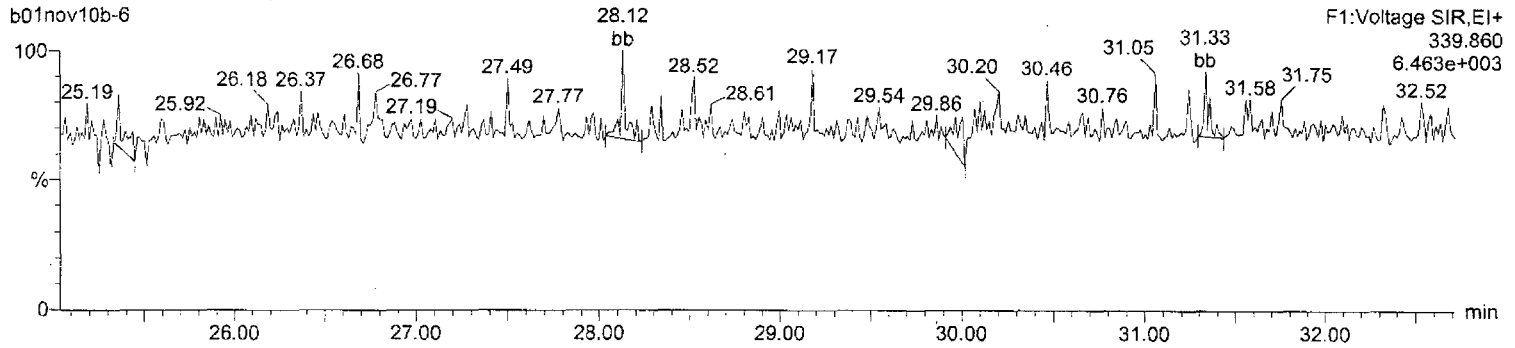
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

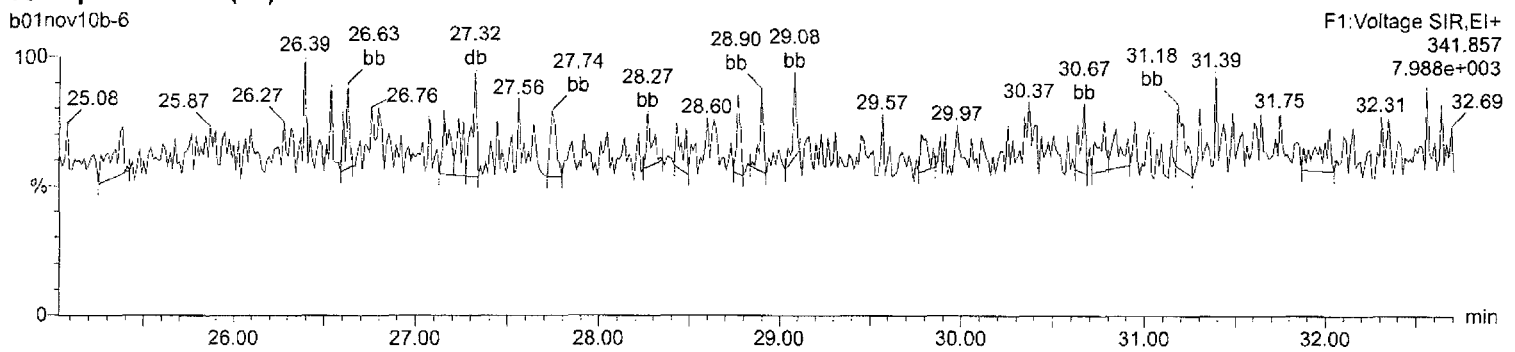
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

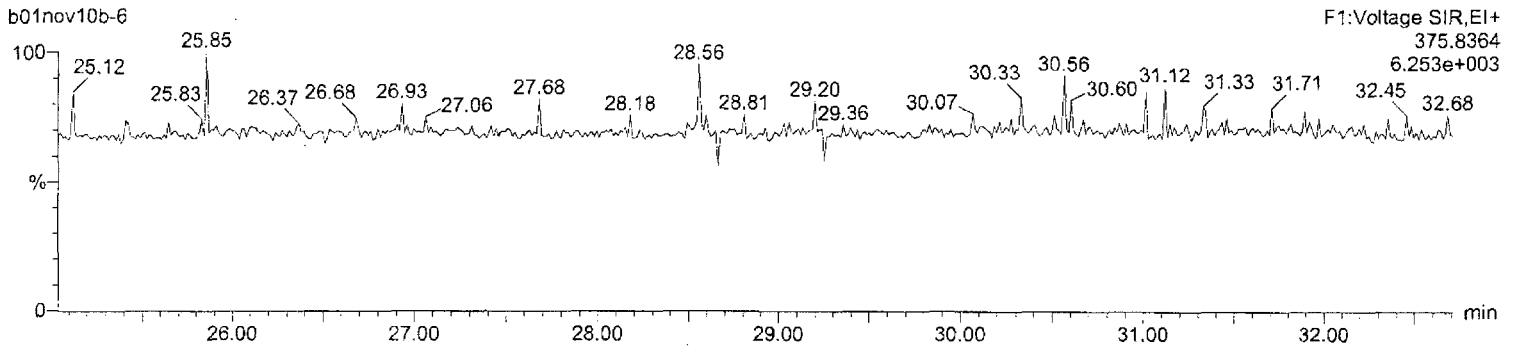
Total-pentafurans (F1)



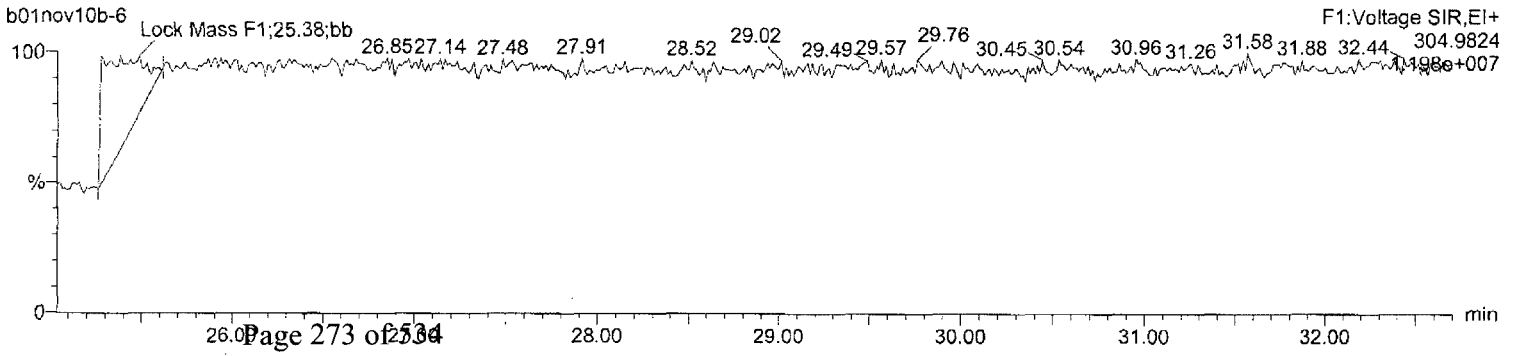
Total-pentafurans (F1)



HxDPE



Lock Mass F1



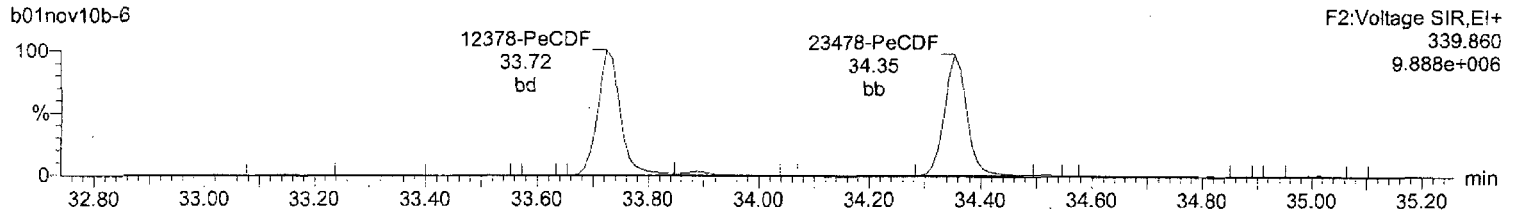
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

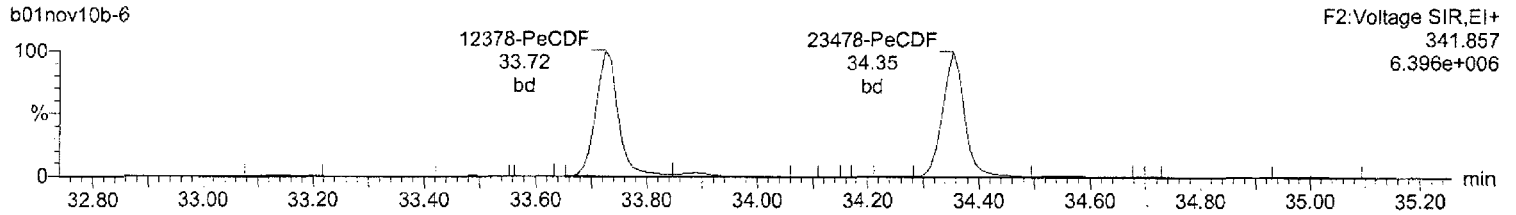
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

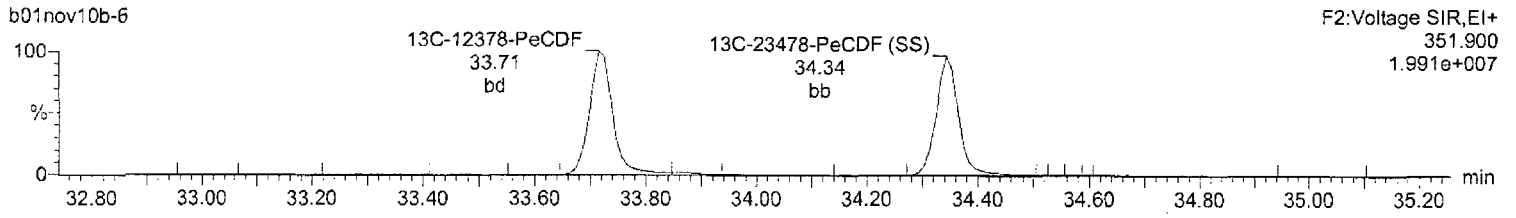
Total-pentafurans



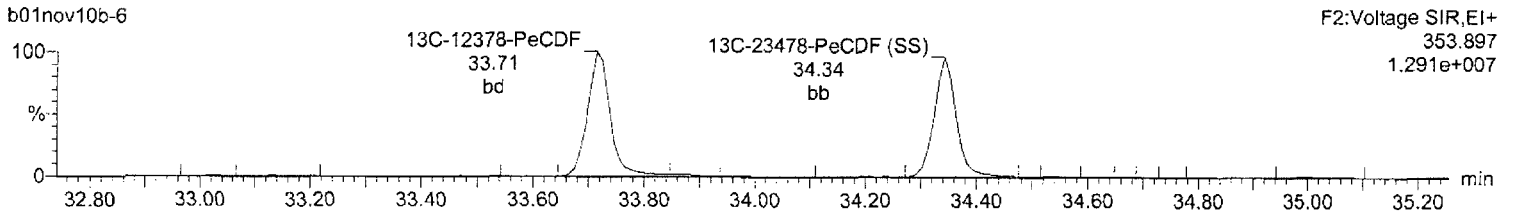
Total-pentafurans



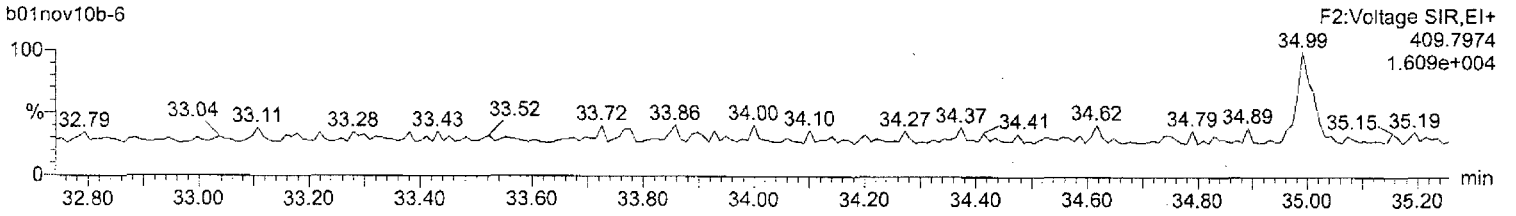
13C-12378-PeCDF



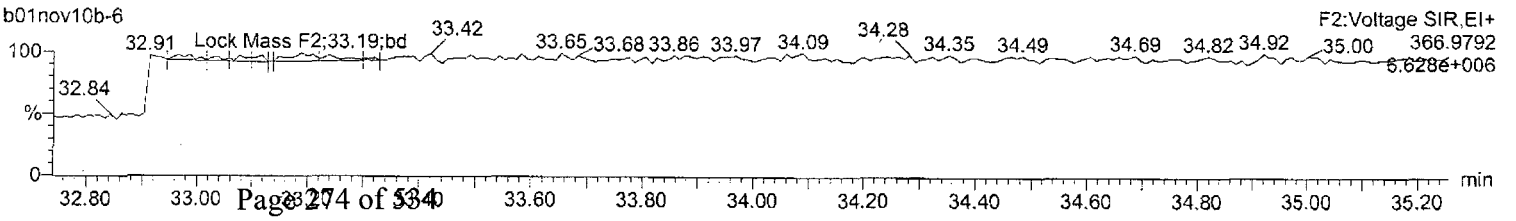
13C-12378-PeCDF



HpDPE



Lock Mass F2



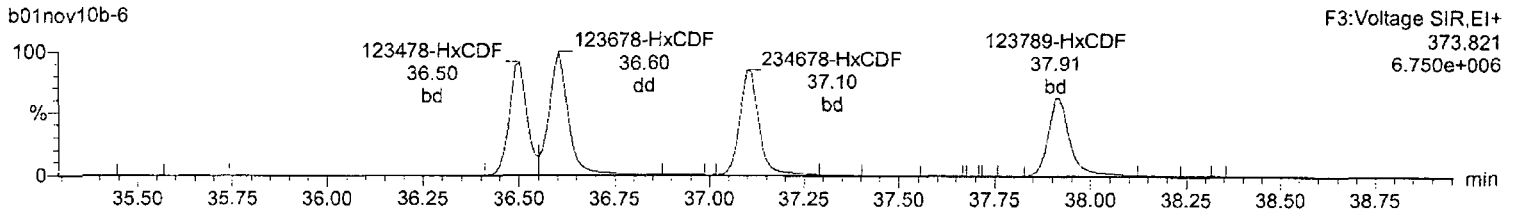
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

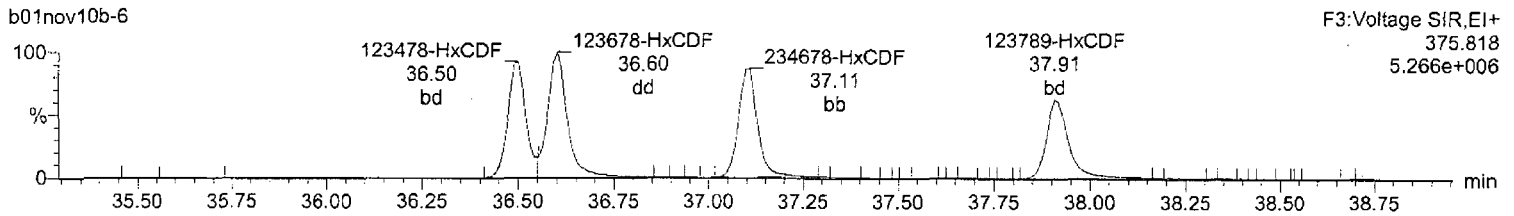
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

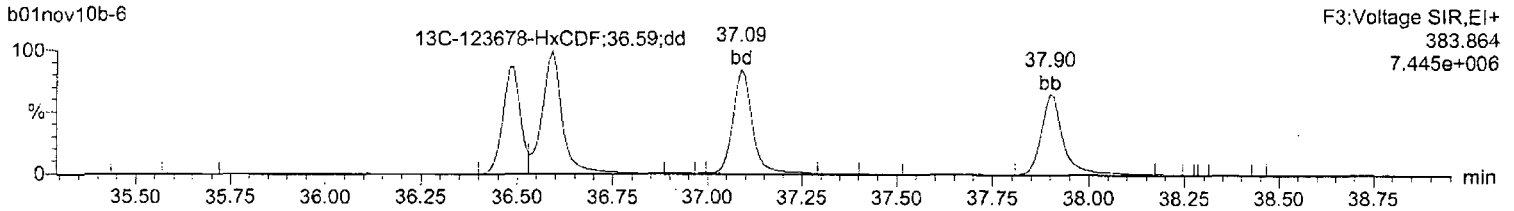
Total-hexafurans



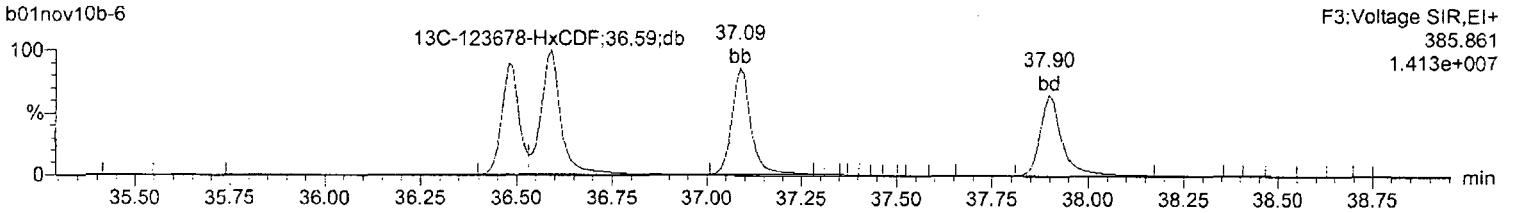
Total-hexafurans



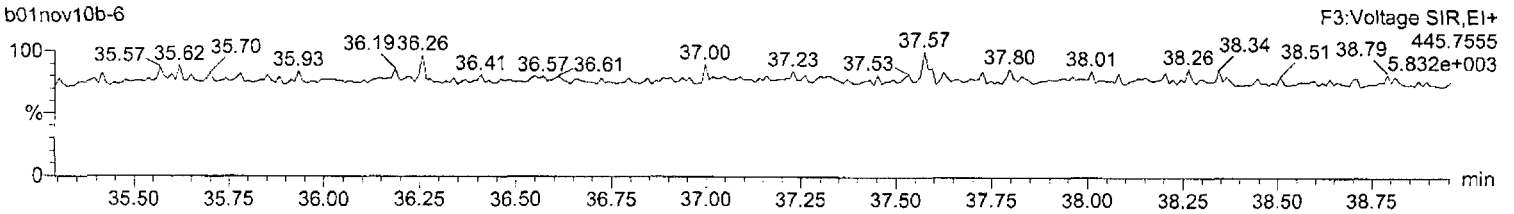
13C-123678-HxCDF



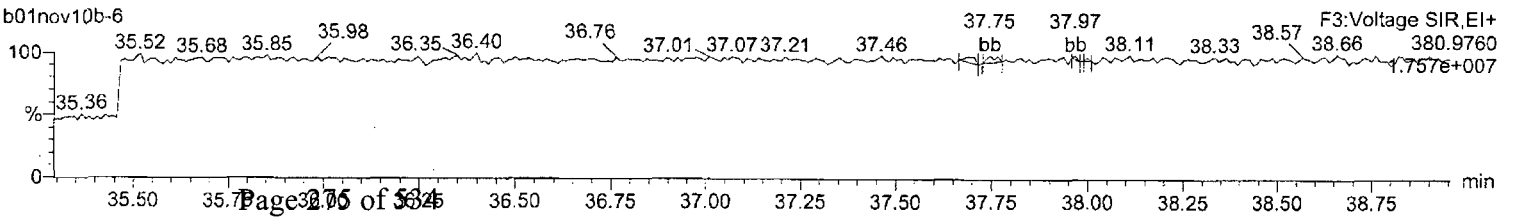
13C-123678-HxCDF



OcDPE



Lock Mass F3



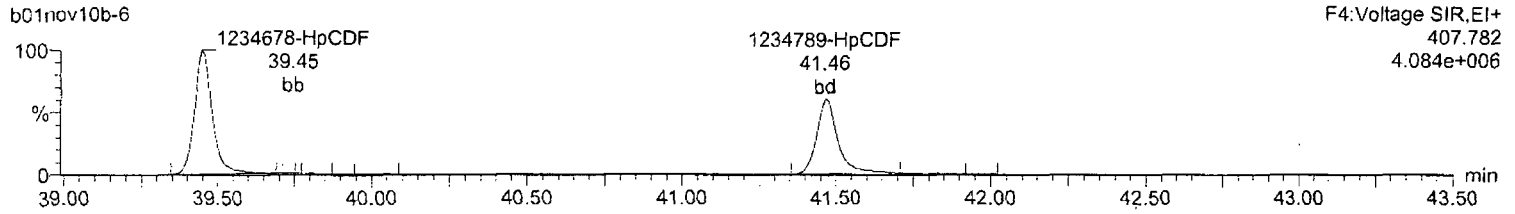
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

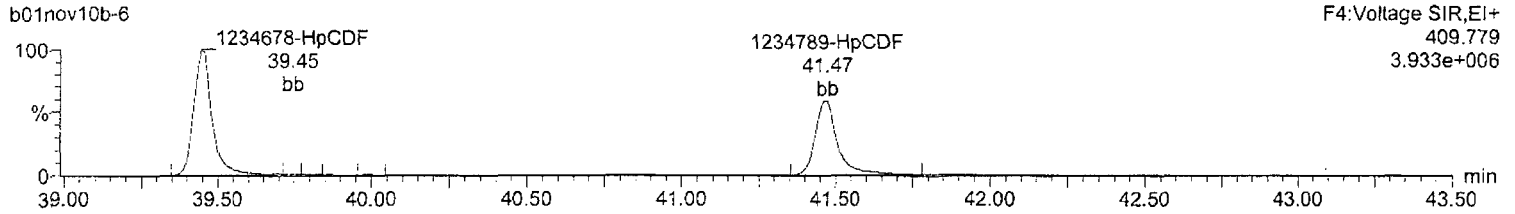
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

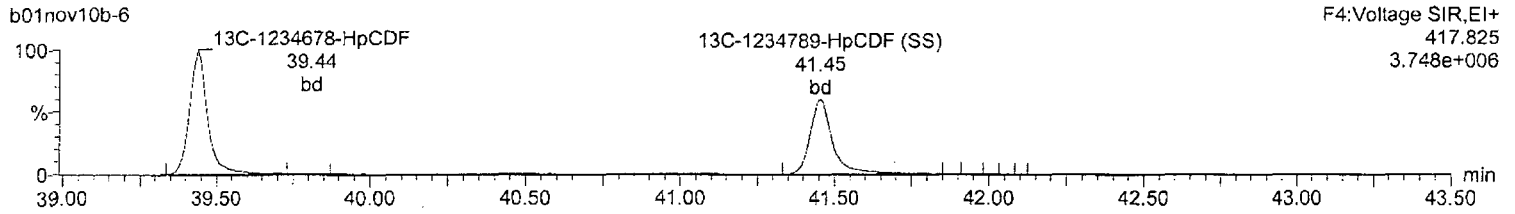
Total-heptafurans



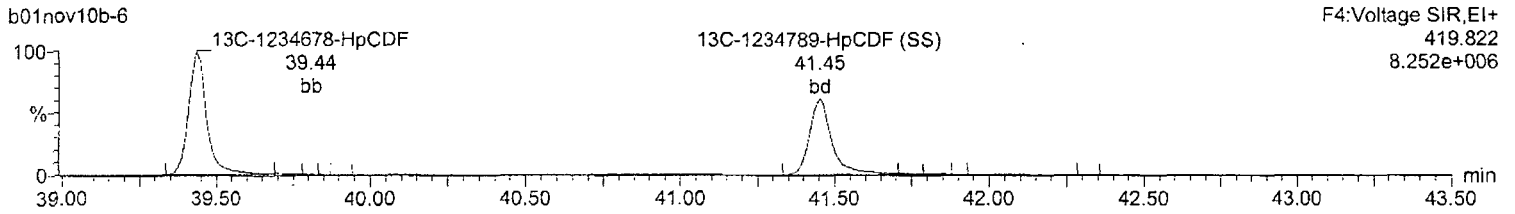
Total-heptafurans



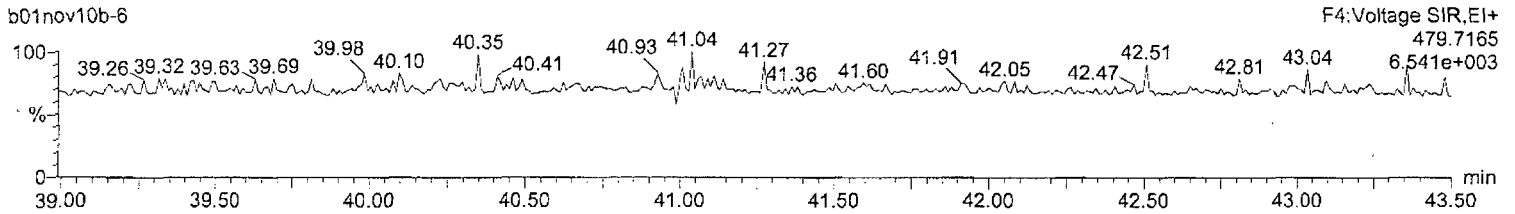
13C-1234678-HpCDF



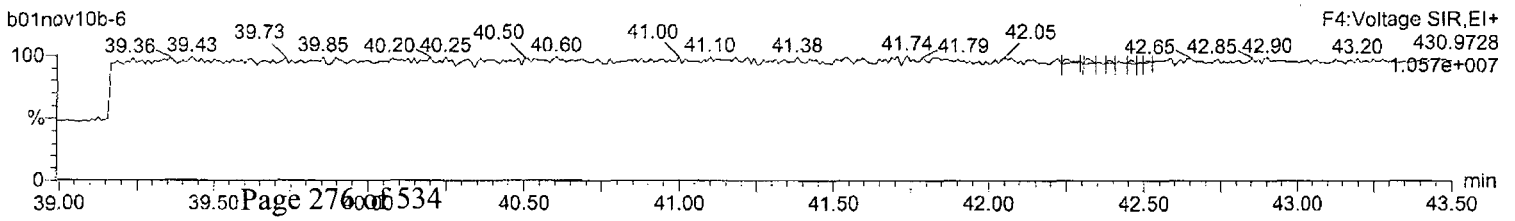
13C-1234678-HpCDF



NoDPE



Lock Mass F4



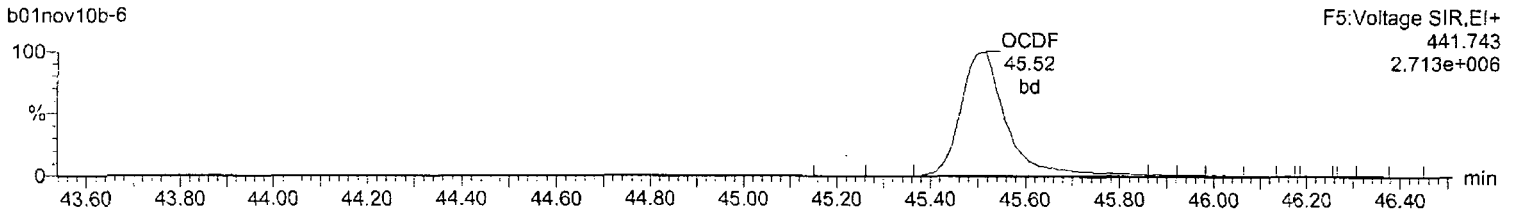
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

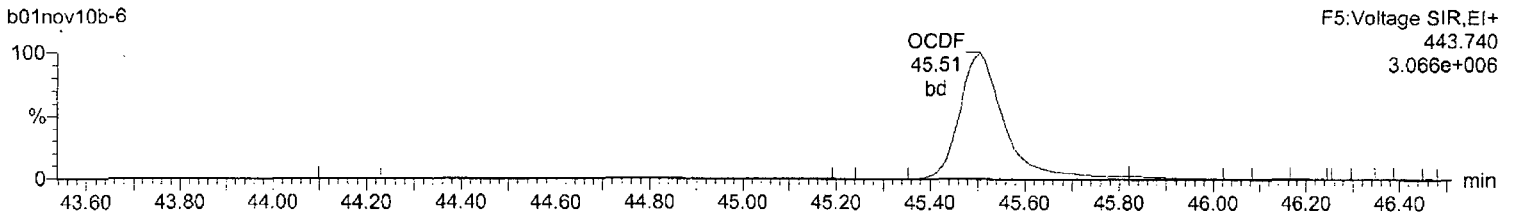
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-6, Date: 01-Nov-2010, Time: 21:41:31, ID: CS3 UD090323-04, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

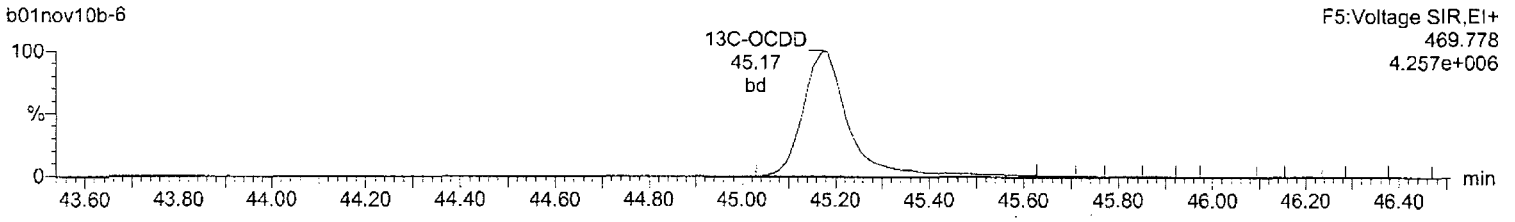
OCDF



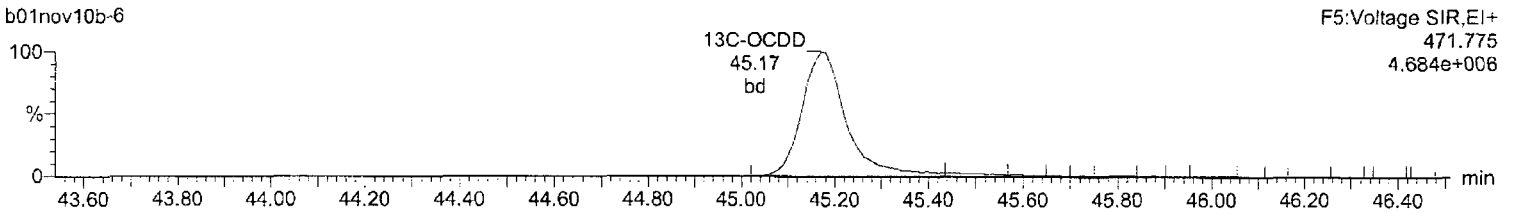
OCDF



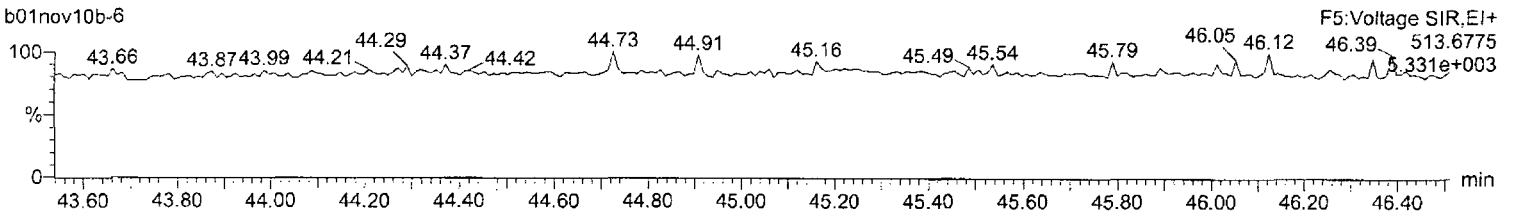
13C-OCDD



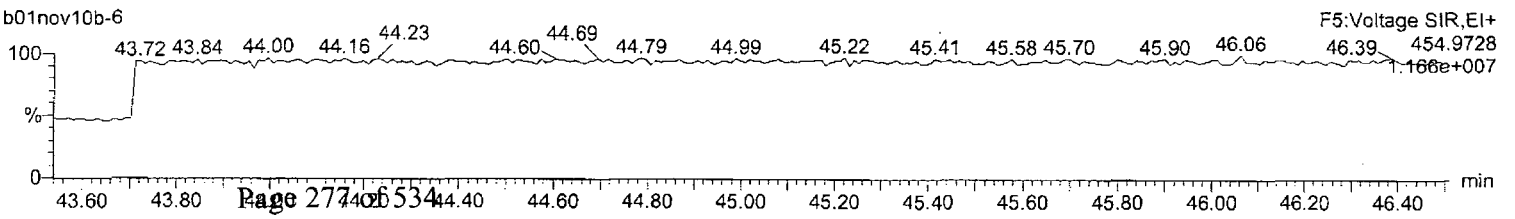
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
2	2378-TCDD	1.77e5	2.29e5	4.05e5	31.75	1.00	0.77	NO	43.207	1.094	0.0364	3.45e6	1091	3165.2	4.47e6	1122	3984.9	bb
3	12378-PeCDD	1.05e6	6.84e5	1.74e6	34.55	1.00	1.54	NO	207.682	1.072	0.162	2.26e7	5757	3926.1	1.48e7	3509	4208.2	bb
4	123478-HxCDD	8.32e5	6.67e5	1.50e6	37.23	1.00	1.25	NO	203.468	0.912	0.295	1.52e7	7142	2134.2	1.23e7	4466	2751.8	bd
5	123678-HxCDD	8.95e5	7.07e5	1.60e6	37.32	1.00	1.27	NO	201.363	0.974	0.273	1.58e7	7142	2206.9	1.23e7	4466	2756.4	db
6	123789-HxCDD	7.99e5	6.40e5	1.44e6	37.57	1.01	1.25	NO	202.434	0.876	0.306	1.33e7	7142	1855.4	1.04e7	4466	2323.7	bb
7	1234678-HpCDD	6.18e5	6.07e5	1.22e6	40.76	1.00	1.02	NO	210.042	1.055	0.371	7.85e6	4485	1750.7	7.63e6	4341	1757.2	bb
8	OCDD	9.84e5	1.12e6	2.10e6	45.18	1.00	0.88	NO	431.741	1.075	0.788	9.64e6	5653	1705.9	1.10e7	6315	1748.7	bd
9	2378-TCDF	2.58e5	3.33e5	5.91e5	31.22	1.00	0.78	NO	38.921	0.957	0.0342	4.31e6	1104	3907.7	5.49e6	1737	3157.9	bb
10	12378-PeCDF	1.69e6	1.09e6	2.78e6	33.72	1.00	1.55	NO	203.695	0.951	0.132	3.77e7	5021	7509.9	2.40e7	8006	2999.5	bd
11	23478-PeCDF	1.68e6	1.08e6	2.76e6	34.35	1.02	1.55	NO	206.228	0.943	0.135	3.66e7	5021	7282.1	2.31e7	8006	2888.5	bb
12	123478-HxCDF	1.21e6	9.68e5	2.17e6	36.49	1.00	1.25	NO	205.350	0.933	0.333	2.41e7	11062	2180.7	1.90e7	8343	2281.0	bd
13	123678-HxCDF	1.43e6	1.16e6	2.59e6	36.60	1.00	1.24	NO	210.308	1.112	0.287	2.51e7	11062	2264.8	2.02e7	8343	2418.0	db
14	234678-HxCDF	1.30e6	1.05e6	2.35e6	37.10	1.01	1.24	NO	210.799	1.007	0.317	2.28e7	11062	2064.8	1.85e7	8343	2219.6	bb
15	123789-HxCDF	1.06e6	8.94e5	1.95e6	37.91	1.04	1.18	NO	211.491	0.837	0.383	1.69e7	11062	1524.1	1.35e7	8343	1615.5	bb
16	1234678-HpCDF	1.04e6	1.04e6	2.08e6	39.45	1.00	1.00	NO	208.033	1.328	0.301	1.54e7	7317	2101.8	1.52e7	7470	2030.1	bb
17	1234789-HpCDF	7.90e5	7.48e5	1.54e6	41.46	1.05	1.06	NO	210.871	0.981	0.412	9.67e6	7317	1321.0	9.30e6	7470	1245.3	bd
18	OCDF	1.29e6	1.43e6	2.73e6	45.51	1.01	0.90	NO	452.772	1.395	0.477	1.22e7	6300	1942.2	1.36e7	2661	5114.0	bd
19	13C-2378-TCDD	4.10e5	5.16e5	9.26e5	31.73	1.01	0.79	NO	98.572	1.104	0.0694	7.97e6	2456	3246.1	1.01e7	1427	7061.4	bb
20	13C-12378-PeCDD	4.96e5	3.14e5	8.10e5	34.54	1.10	1.58	NO	101.575	0.965	0.129	1.02e7	2630	3872.0	6.73e6	3477	1935.1	bb
21	13C-123678-HxCDD	4.63e5	3.59e5	8.22e5	37.31	0.99	1.29	NO	104.897	1.166	0.179	7.42e6	4418	1678.7	5.80e6	2978	1948.5	db
22	13C-1234678-HpCDD	2.95e5	2.85e5	5.80e5	40.74	1.08	1.04	NO	102.857	0.823	0.222	3.61e6	3457	1045.4	3.42e6	3152	1085.5	bd
23	13C-OCDD	4.61e5	5.15e5	9.77e5	45.16	1.20	0.89	NO	207.463	0.693	0.285	4.32e6	3199	1350.4	5.00e6	3868	1292.6	bd
24	13C-2378-TCDF	6.80e5	8.63e5	1.54e6	31.21	1.00	0.79	NO	100.947	1.838	0.0353	1.12e7	1451	7704.9	1.40e7	1761	7978.6	bb
25	13C-12378-PeCDF	8.92e5	5.71e5	1.46e6	33.71	1.08	1.56	NO	102.973	1.743	0.119	1.93e7	5842	3303.6	1.26e7	4261	2959.5	bd
26	13C-123678-HxCDF	4.07e5	7.58e5	1.17e6	36.58	0.97	0.54	NO	101.417	1.654	0.171	6.71e6	5108	1314.1	1.31e7	5250	2501.3	dd
27	13C-1234678-HpCDF	2.43e5	5.41e5	7.84e5	39.44	1.05	0.45	NO	102.996	1.113	0.221	3.59e6	3673	976.2	7.90e6	5221	1513.8	bd
28	13C-1234-TCDD	3.71e5	4.68e5	8.39e5	31.34	0.00	0.79	NO	100.000	1.000	0.0777	6.63e6	2456	2701.7	8.31e6	1427	5823.4	bb
29	13C-123789-HxCDD	3.93e5	3.11e5	7.05e5	37.56	0.00	1.26	NO	100.000	1.000	0.199	6.22e6	4418	1408.9	4.95e6	2978	1661.6	bb
30	37Cl-2378-TCDD (SS)	4.17e5		4.17e5	31.75	1.00			42.719	1.126	0.0229	8.18e6	1447	5654.5				bb
31	13C-23478-PeCDF (SS)	8.42e5	5.34e5	1.38e6	34.34	1.02	1.58	NO	100.795	0.941	0.103	1.81e7	5842	3103.8	1.15e7	4261	2697.4	bb
32	13C-123478-HxCDF (SS)	3.22e5	6.19e5	9.41e5	36.48	1.00	0.52	NO	99.757	0.808	0.200	6.24e6	5108	1221.8	1.21e7	5250	2314.3	bd
33	13C-123478-HxCDD (SS)	3.81e5	2.94e5	6.74e5	37.22	1.00	1.30	NO	95.316	0.821	0.196	7.29e6	4418	1650.0	5.67e6	2978	1904.7	bd
34	13C-1234789-HpCDF (SS)	1.84e5	4.12e5	5.96e5	41.45	1.05	0.45	NO	100.462	0.760	0.305	2.20e6	3673	599.2	4.96e6	5221	950.8	bb

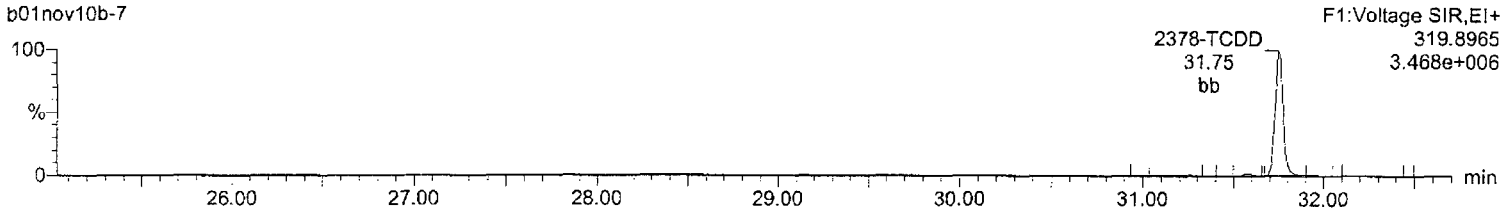
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

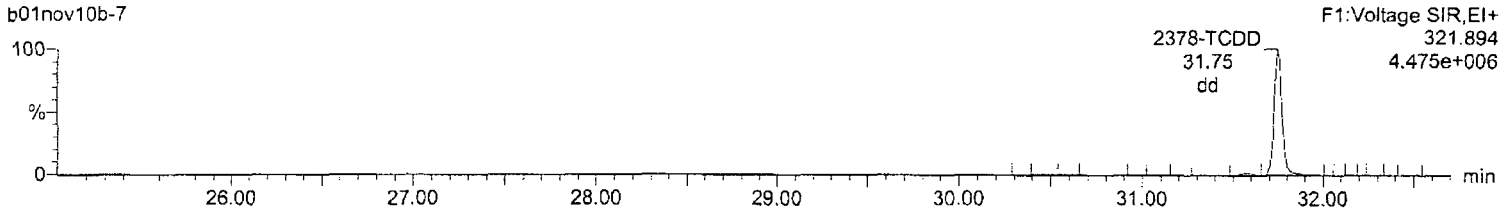
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

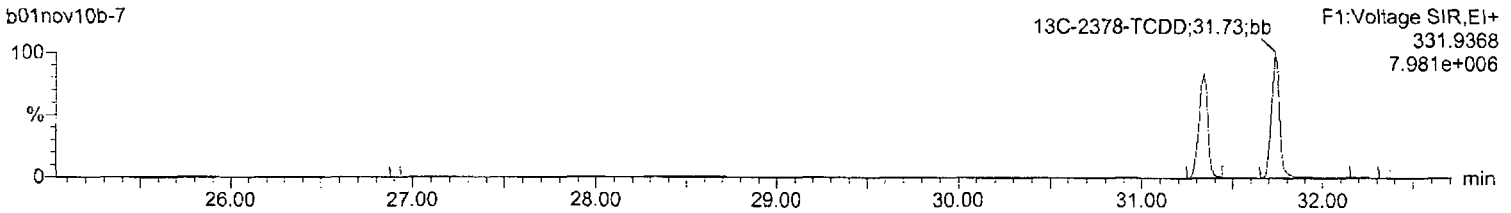
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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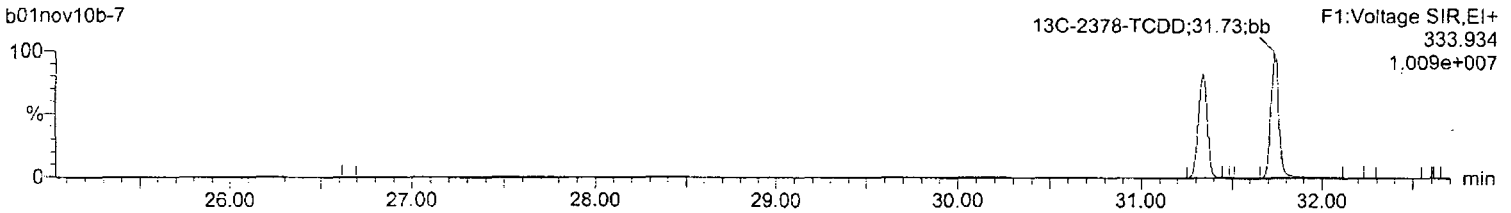
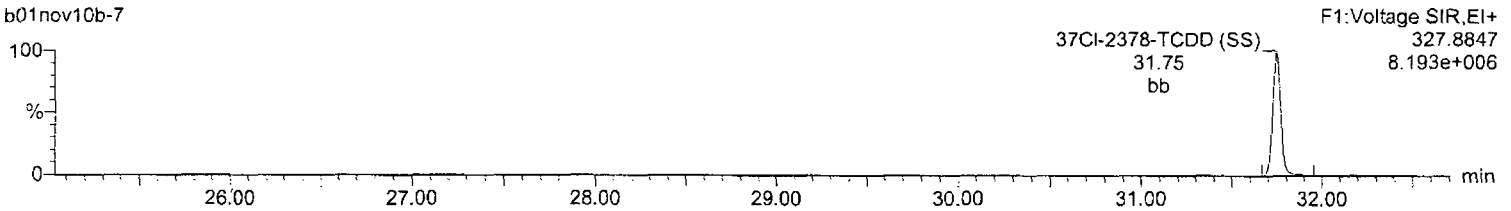
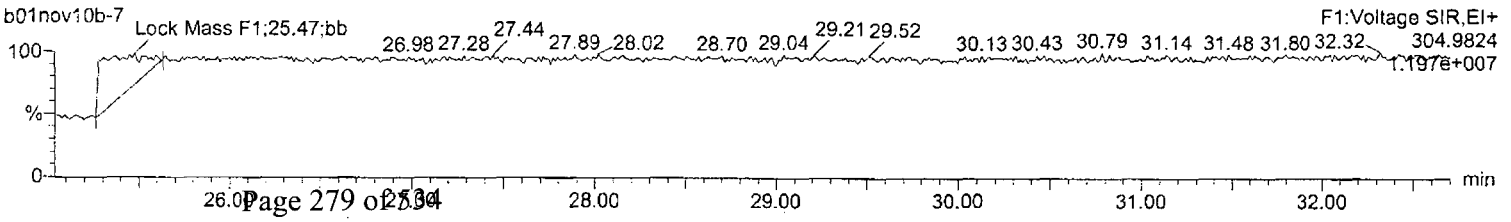


37Cl-2378-TCDD (SS)



Lock Mass F1



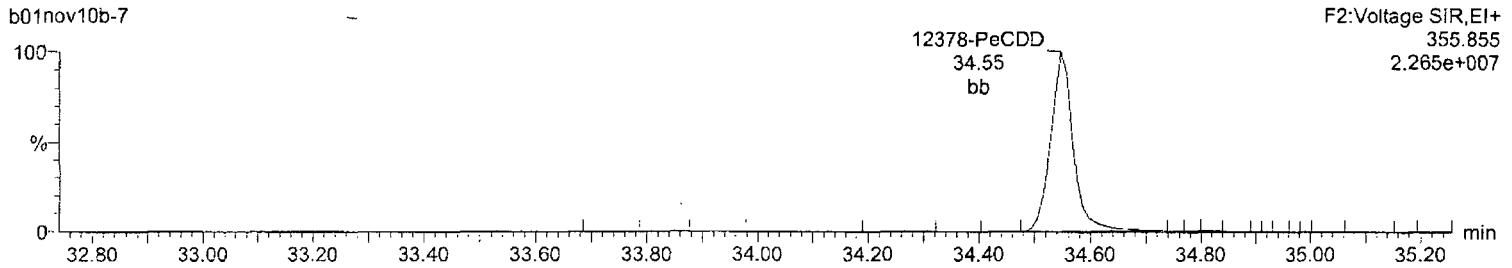
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

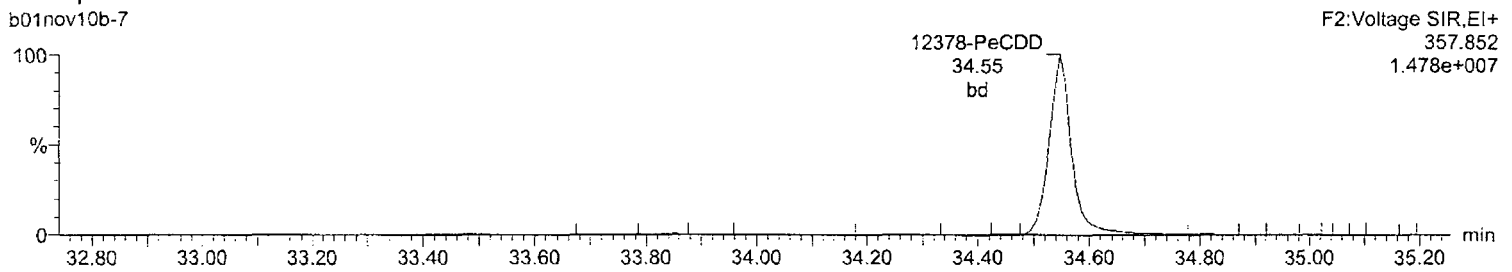
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

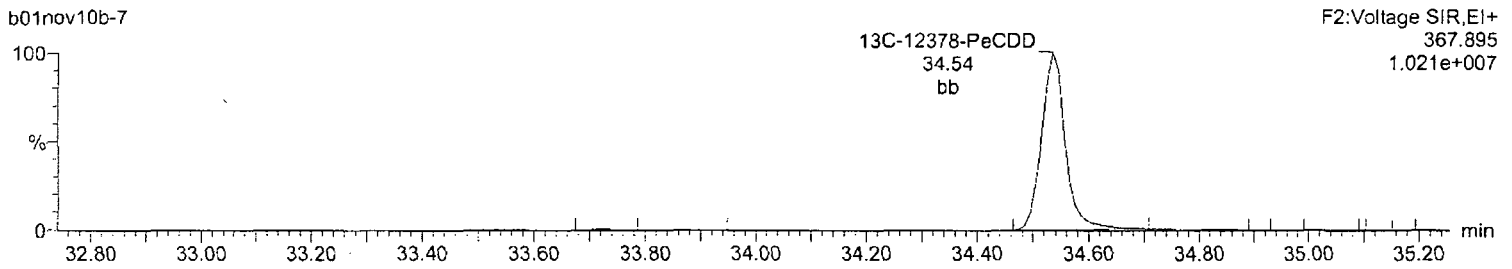
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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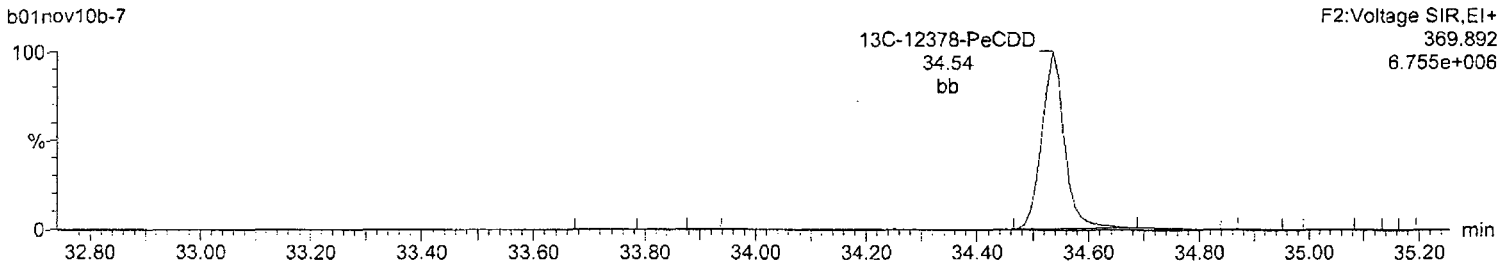
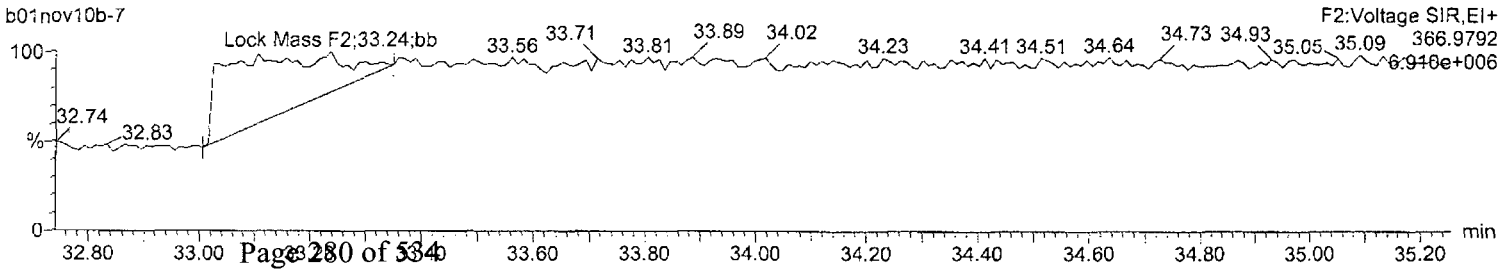


Lock Mass F2



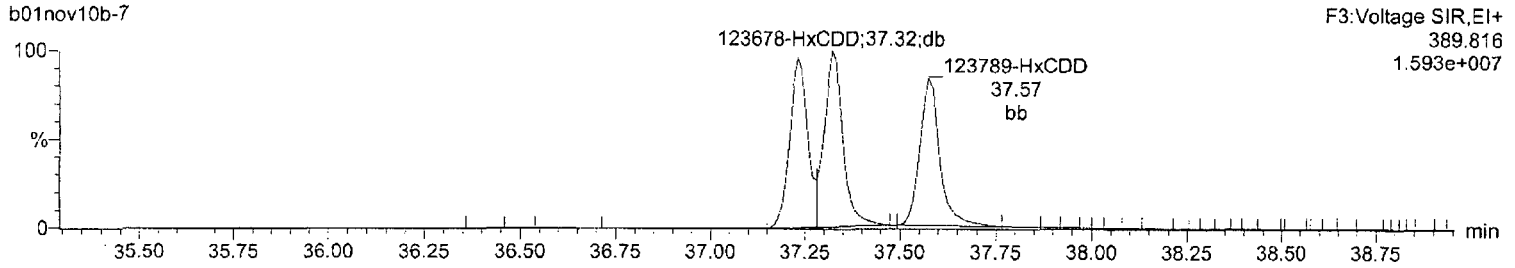
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

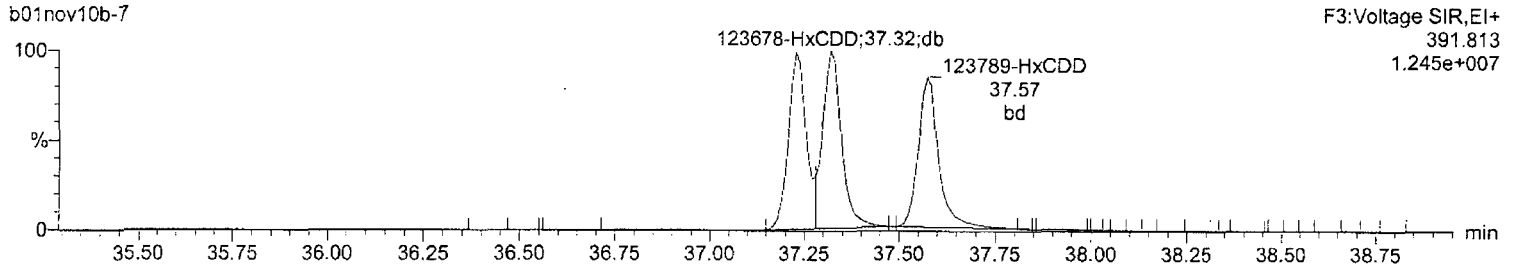
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

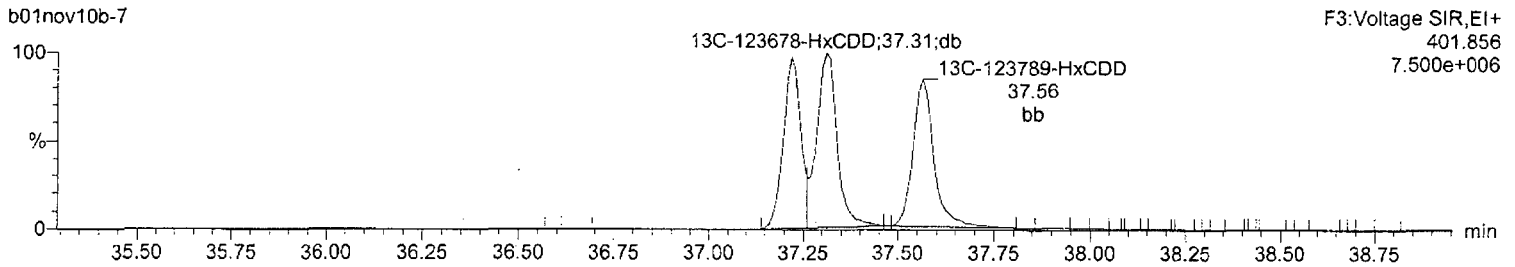
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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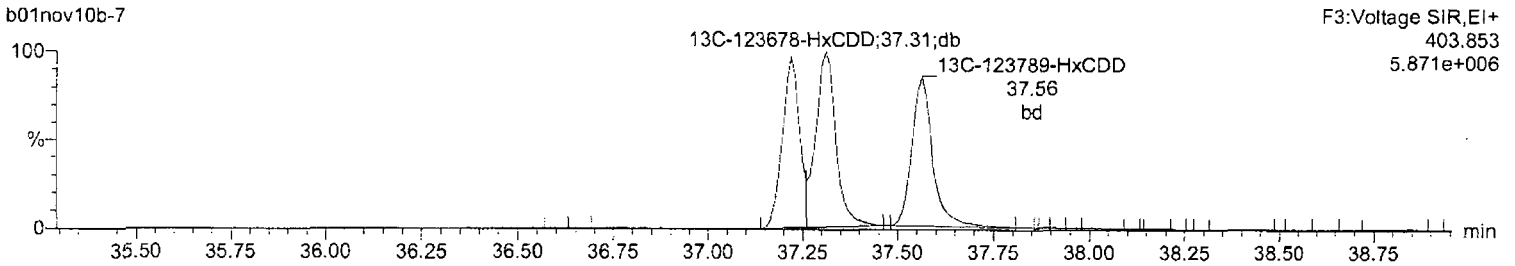
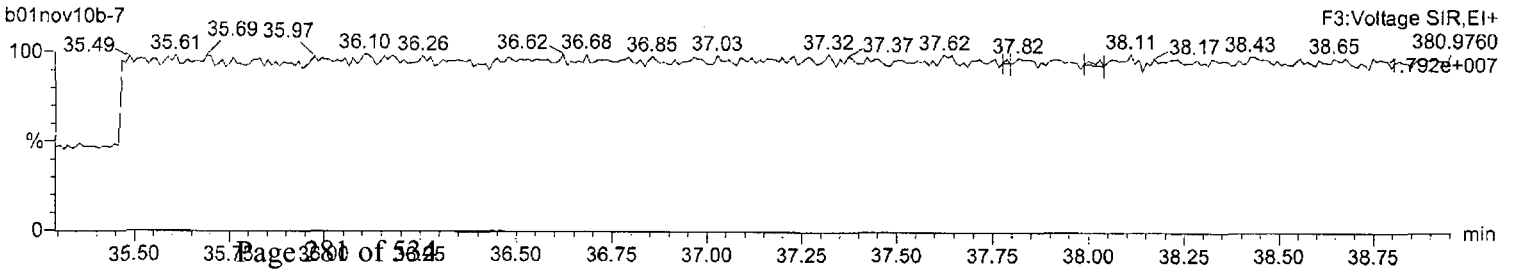


Lock Mass F3



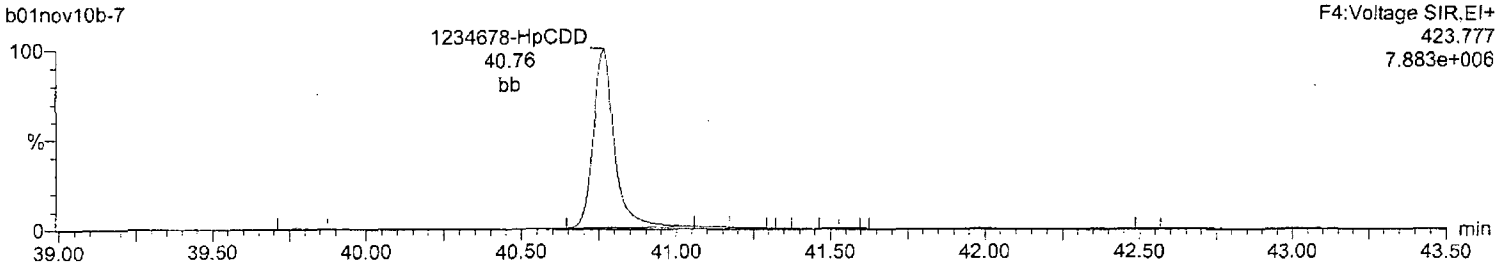
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

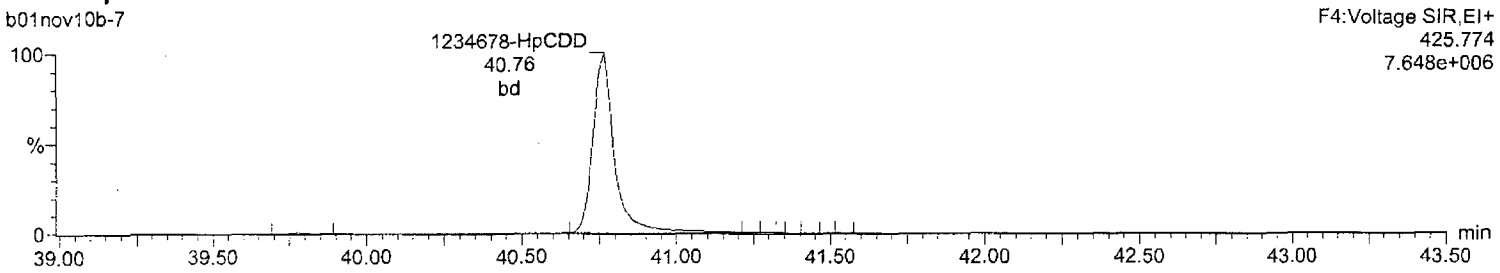
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

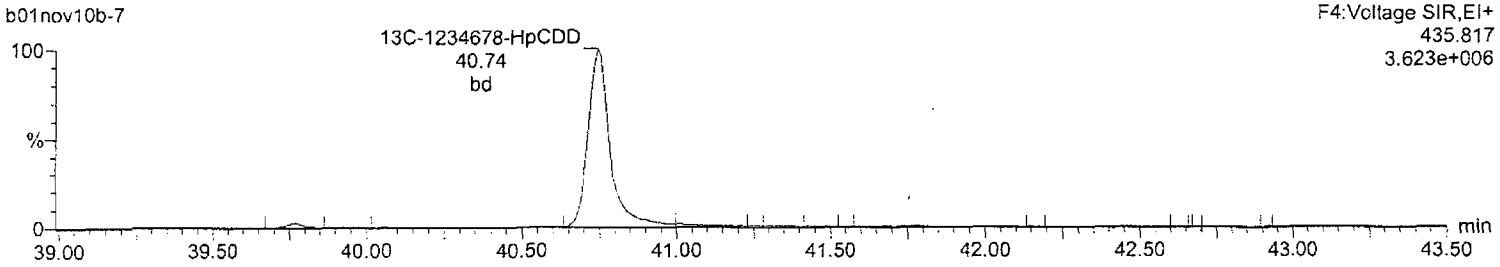
Total-heptadioxins



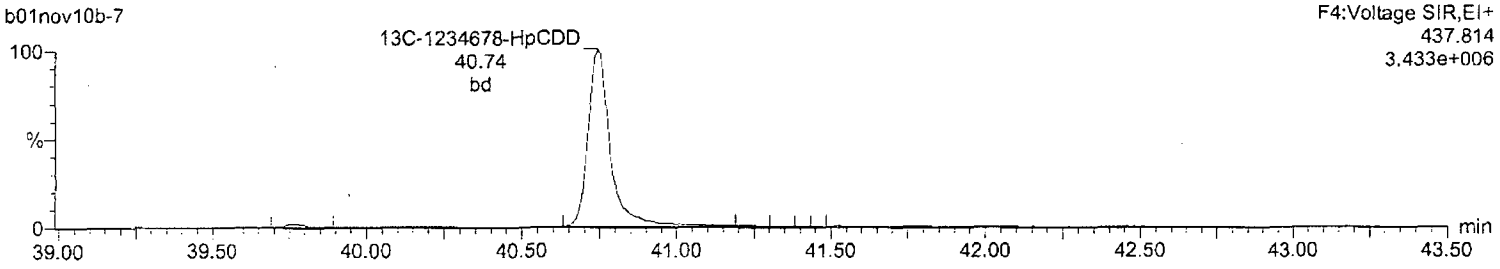
Total-heptadioxins



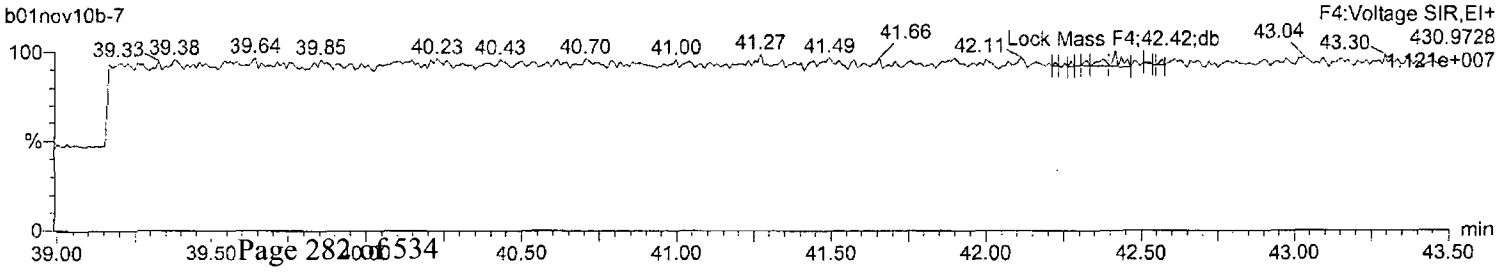
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



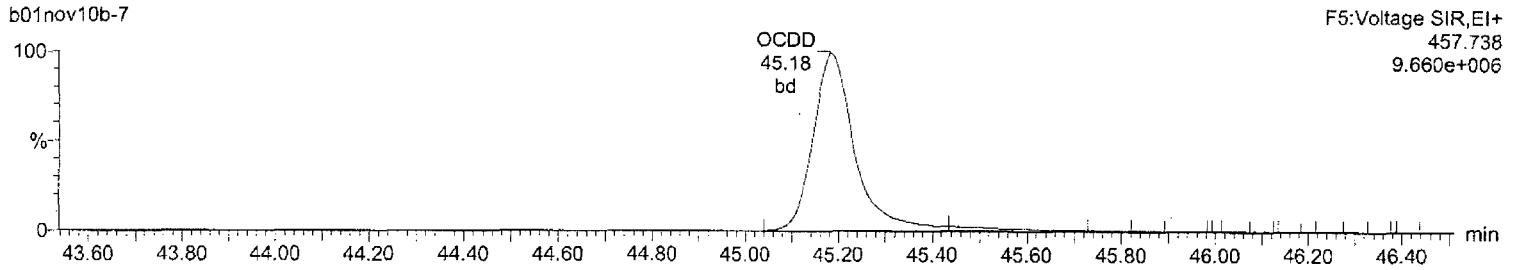
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

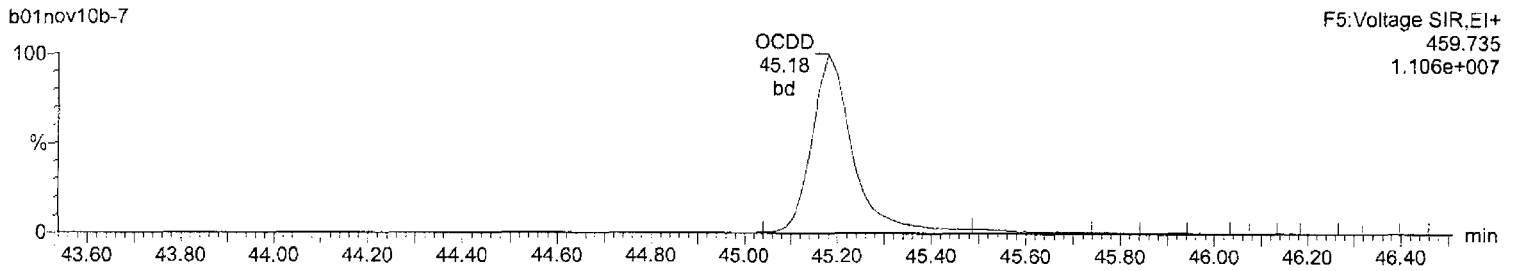
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

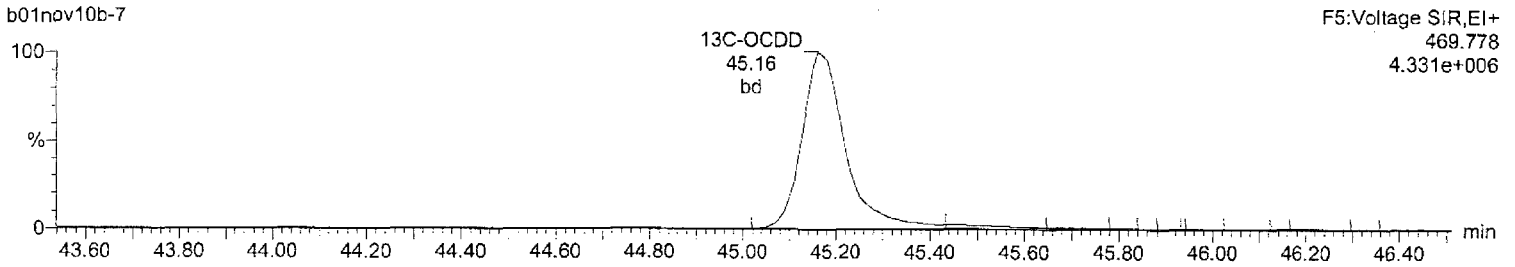
OCDD



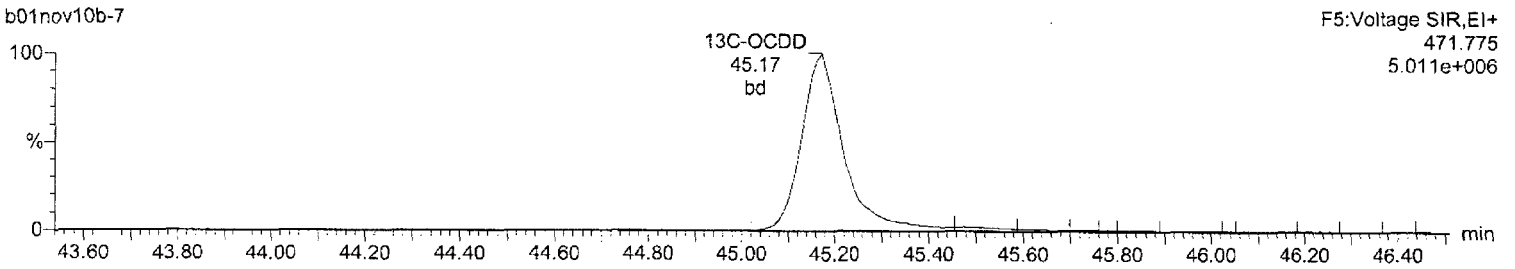
OCDD



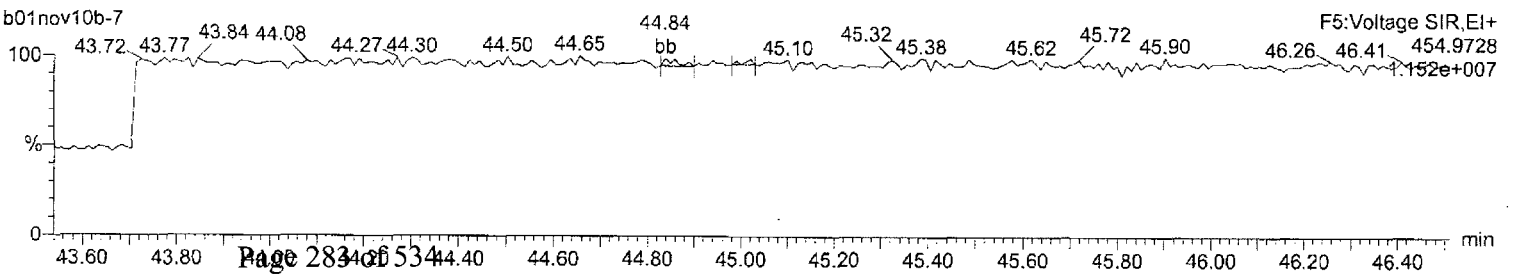
13C-OCDD



13C-OCDD



Lock Mass F5



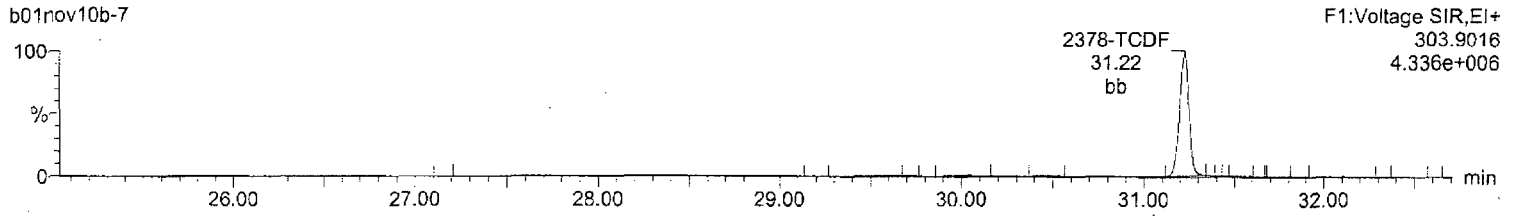
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

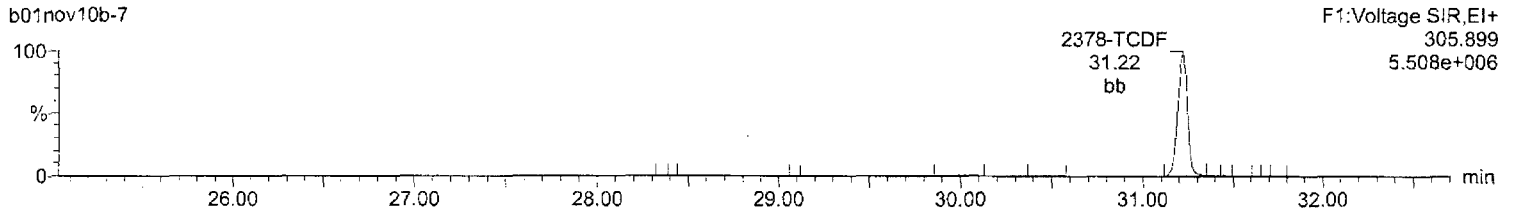
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

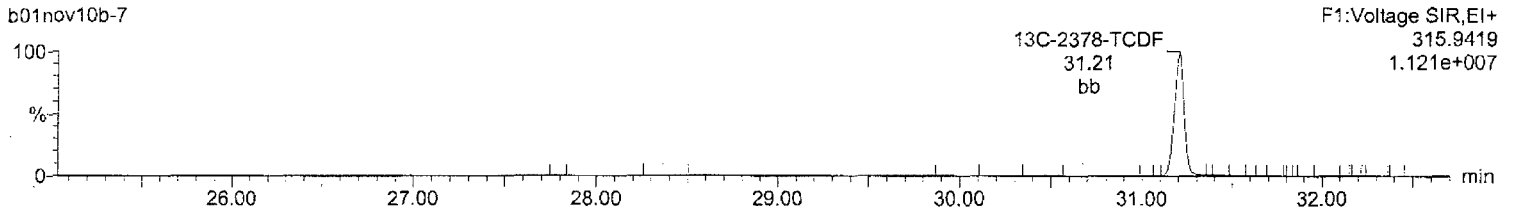
Total-tetrafurans



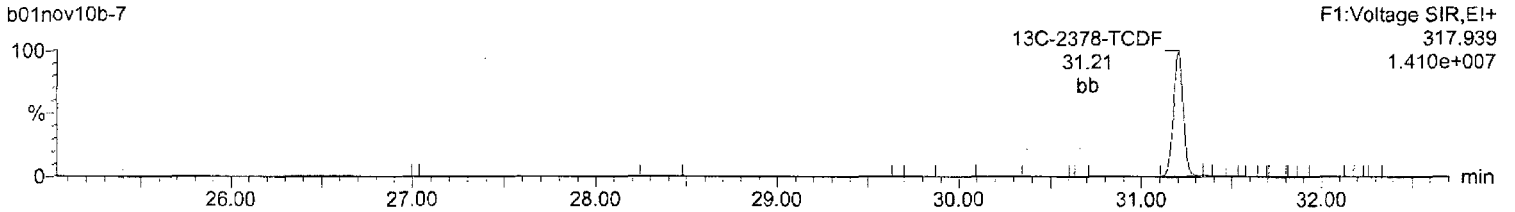
Total-tetrafurans



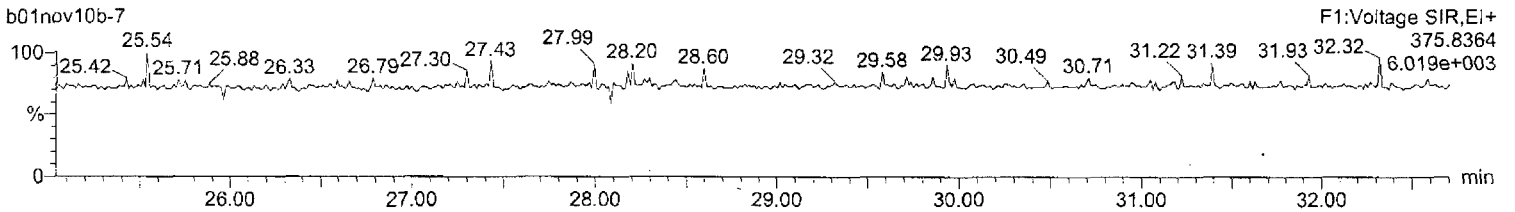
13C-2378-TCDF



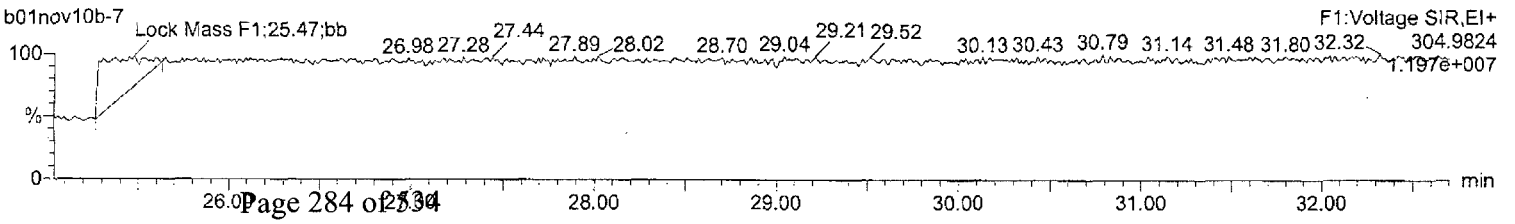
13C-2378-TCDF



HxDPE



Lock Mass F1



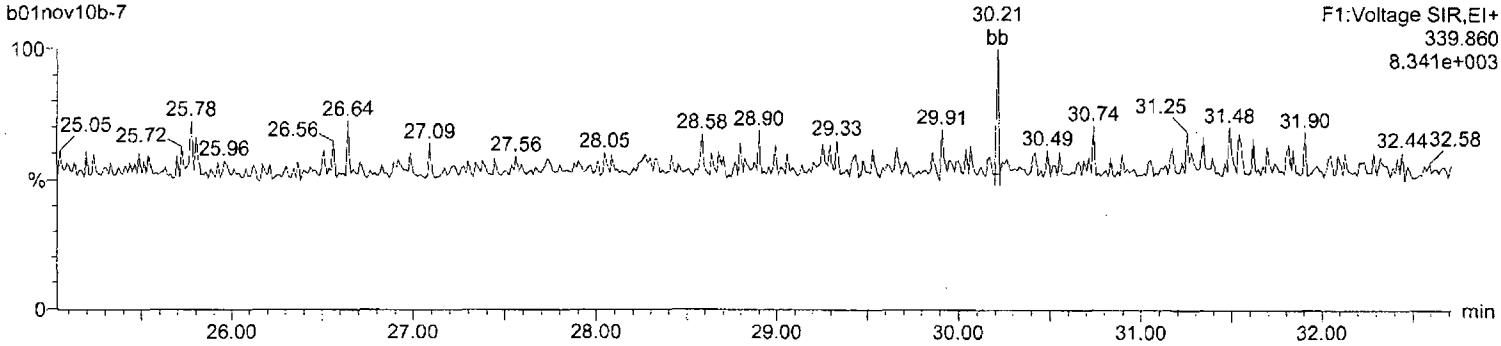
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

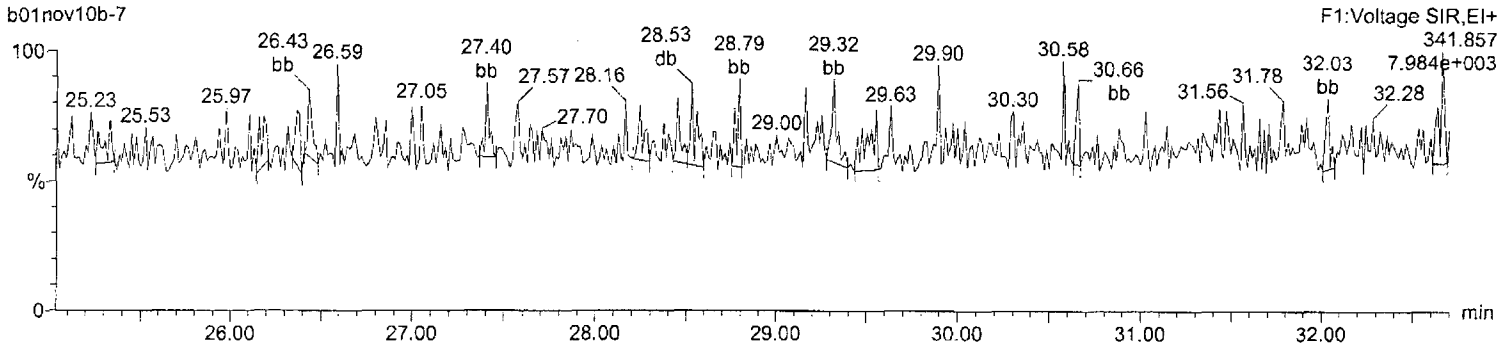
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

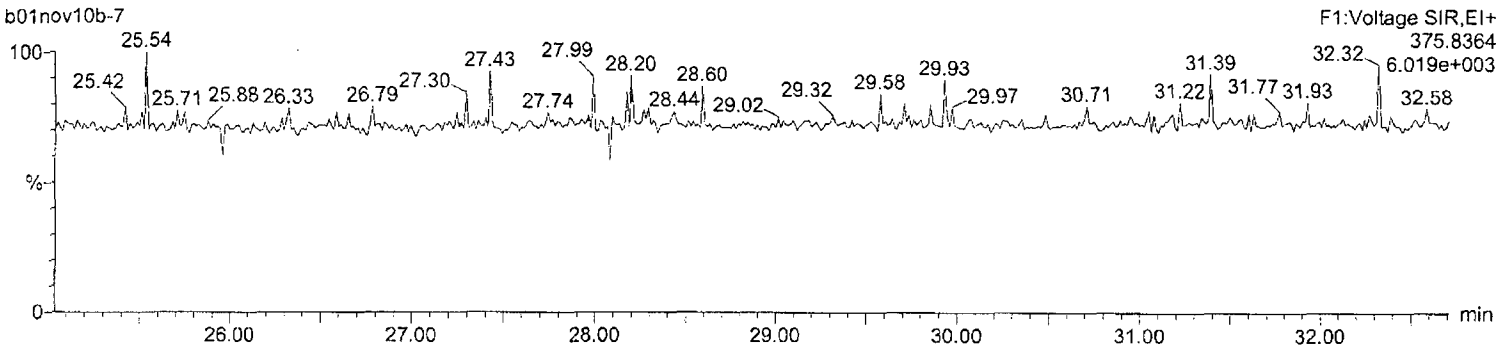
Total-pentafurans (F1)



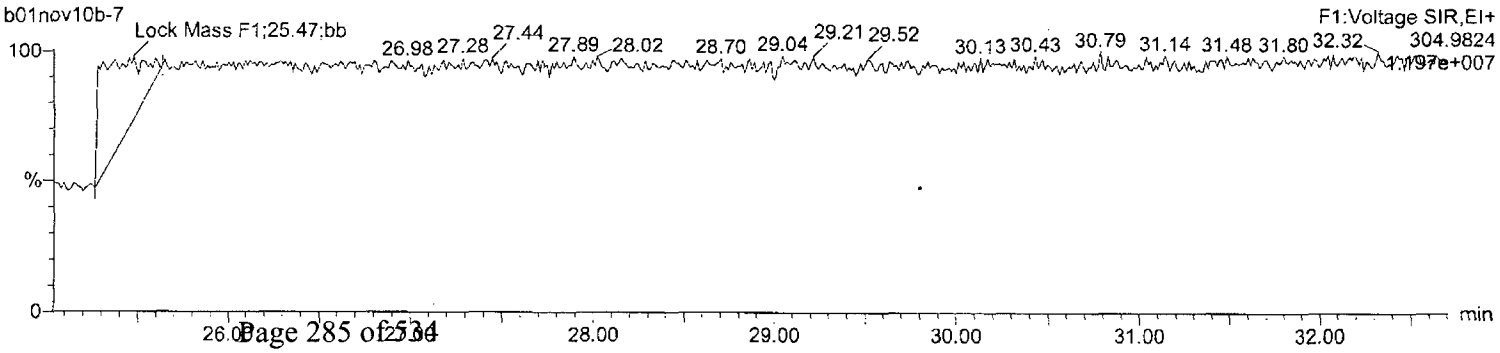
Total-pentafurans (F1)



HxDPE



Lock Mass F1



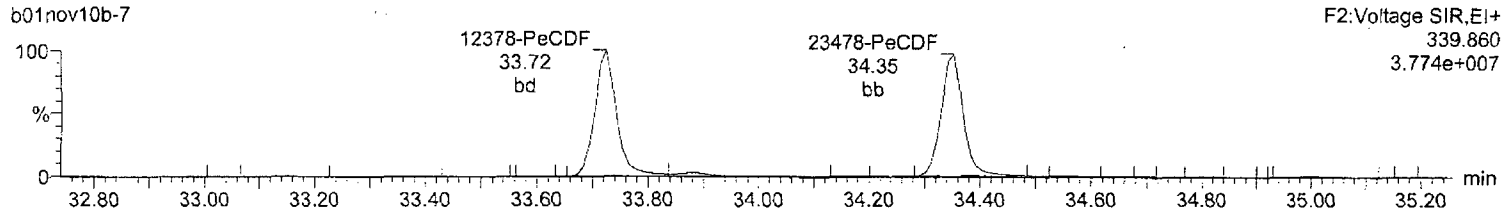
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

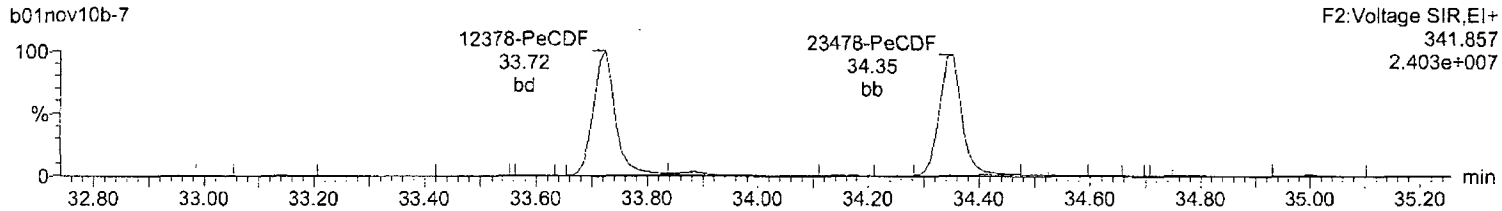
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

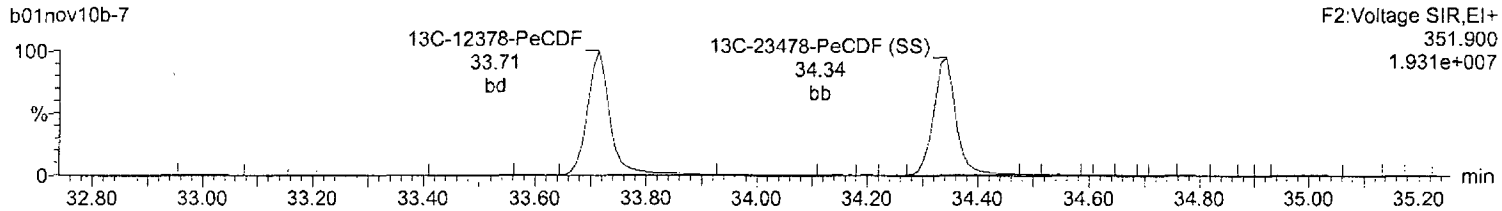
Total-pentafurans



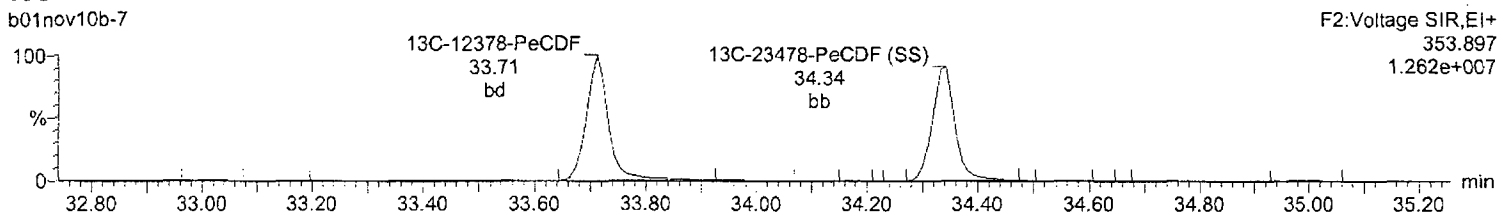
Total-pentafurans



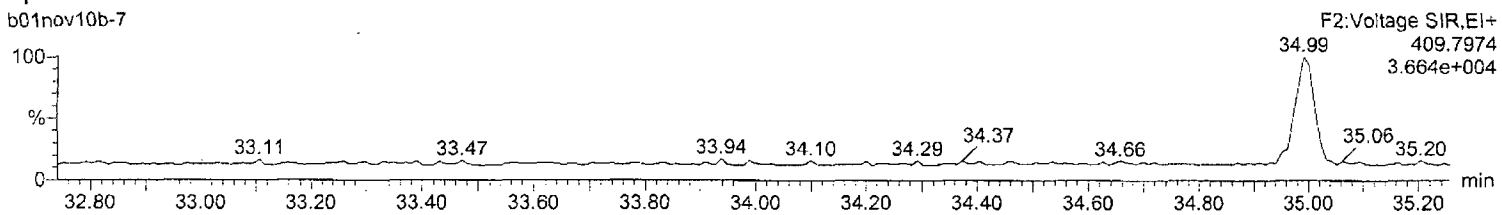
13C-12378-PeCDF



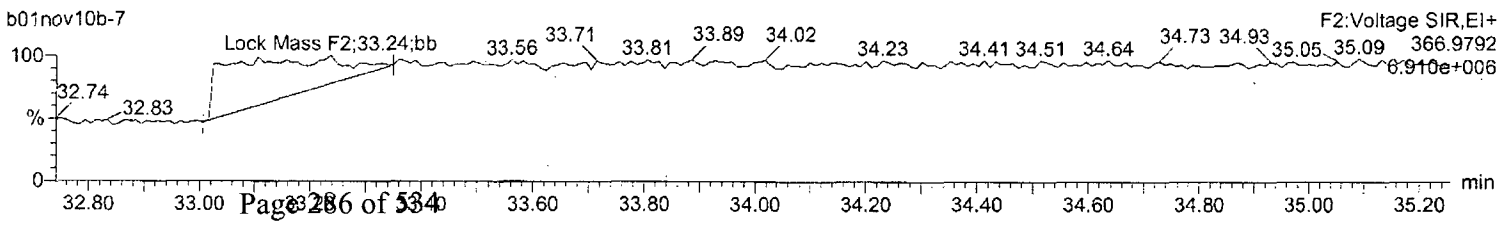
13C-12378-PeCDF



HpDPE



Lock Mass F2



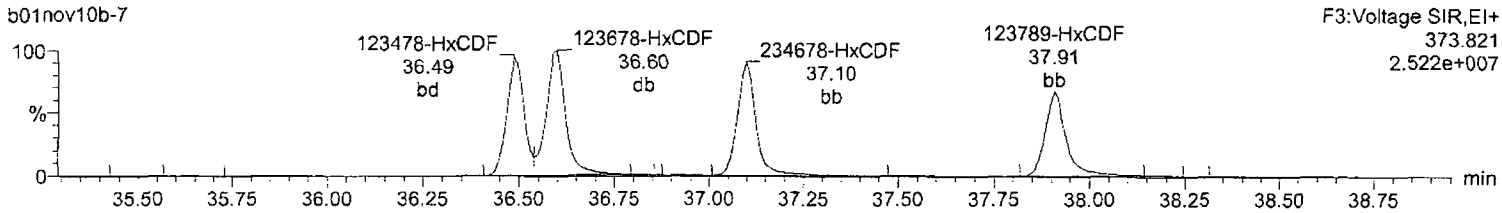
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

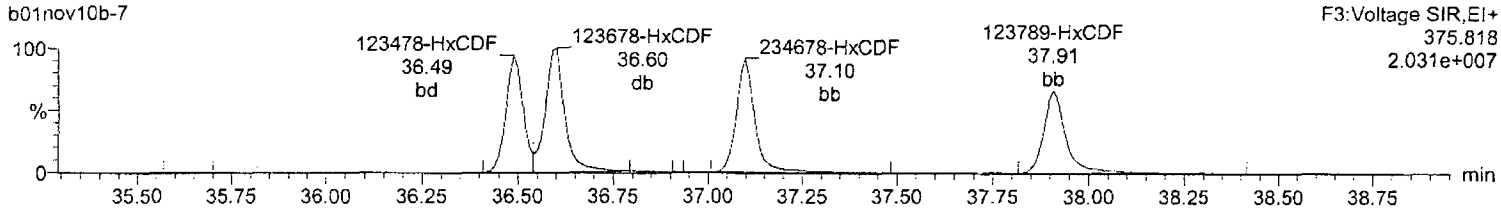
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

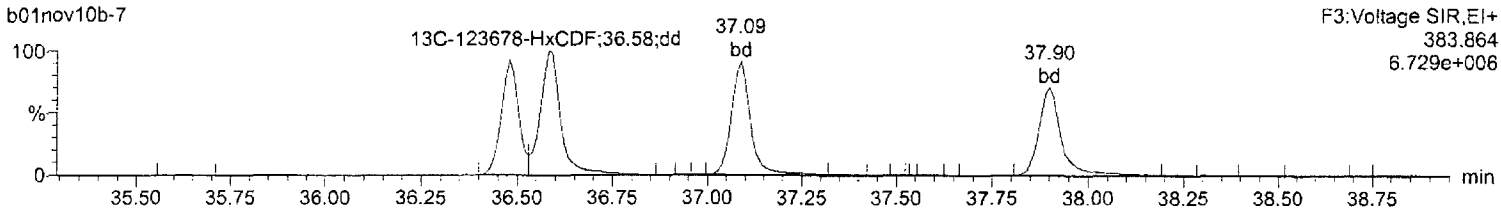
Total-hexafurans



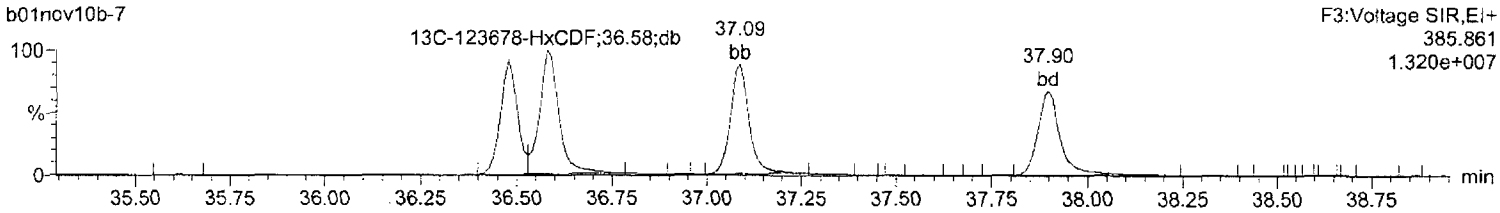
Total-hexafurans



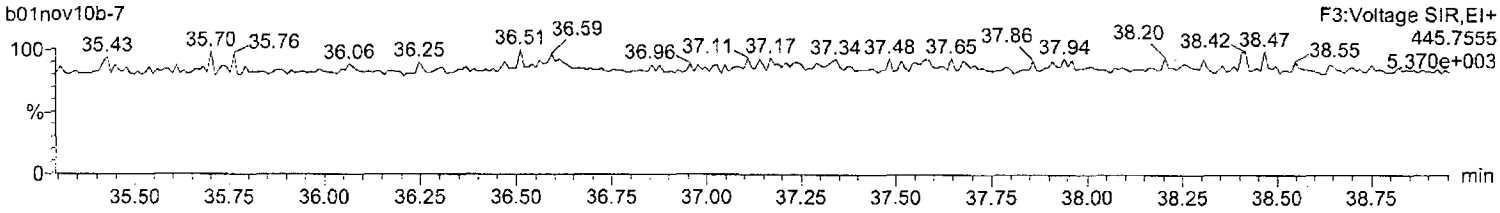
13C-123678-HxCDF



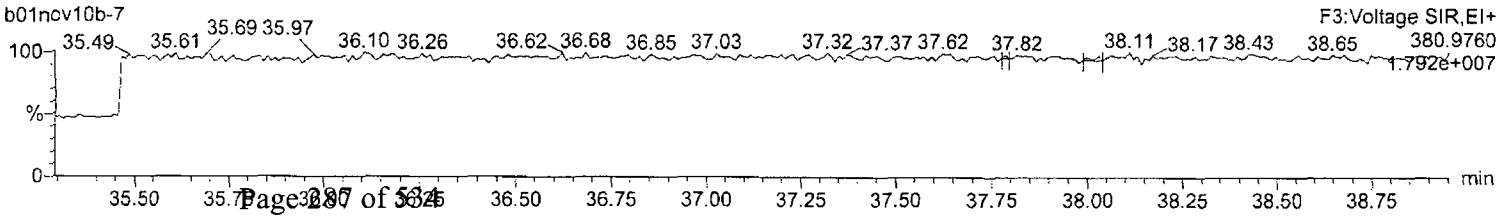
13C-123678-HxCDF



OcDPE



Lock Mass F3



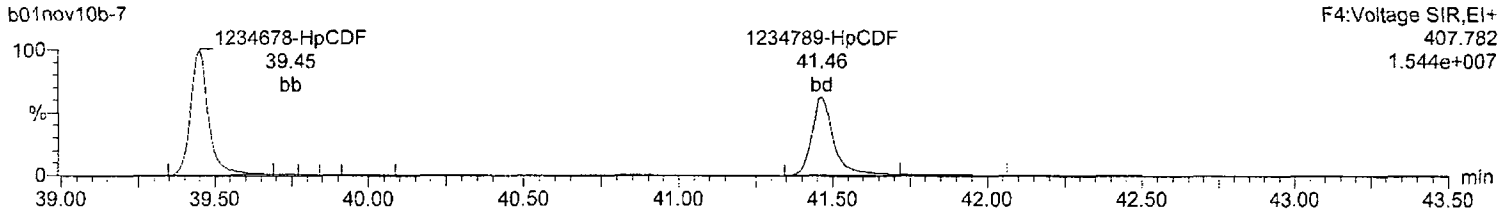
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

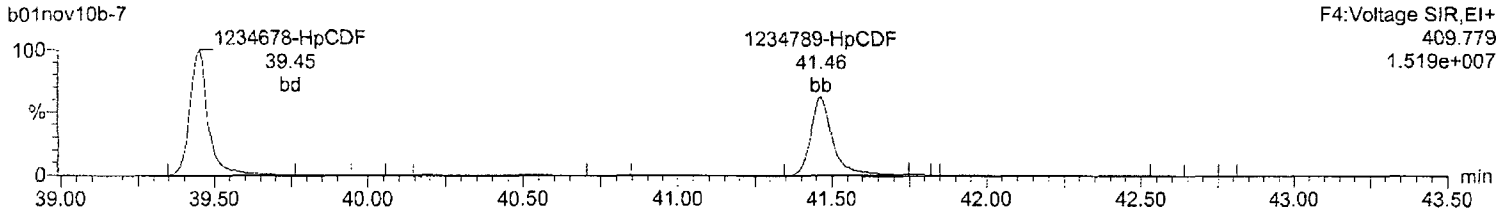
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

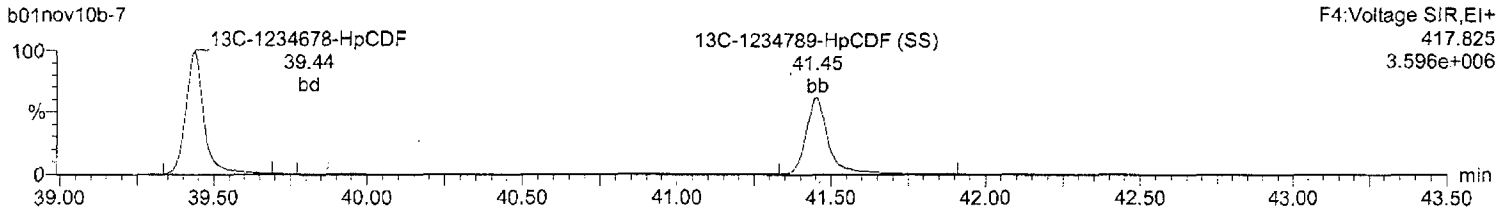
Total-heptafurans



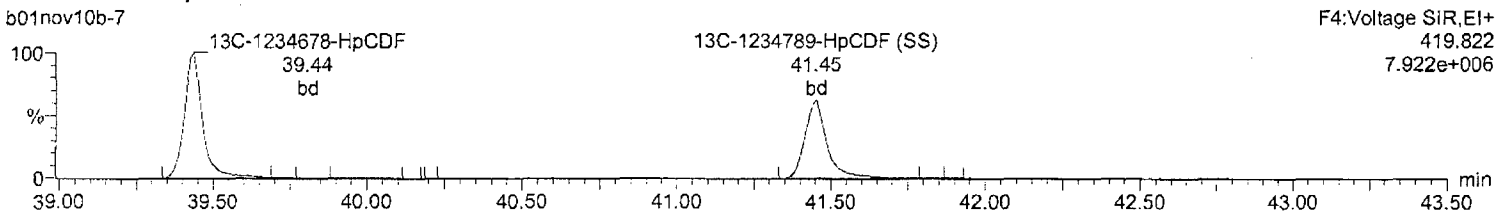
Total-heptafurans



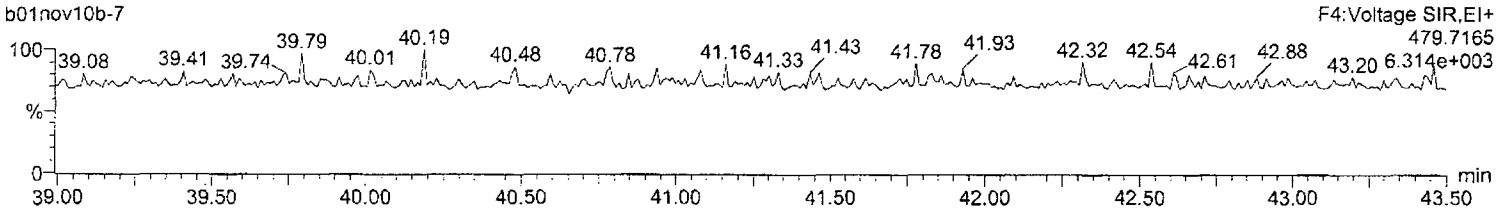
13C-1234678-HpCDF



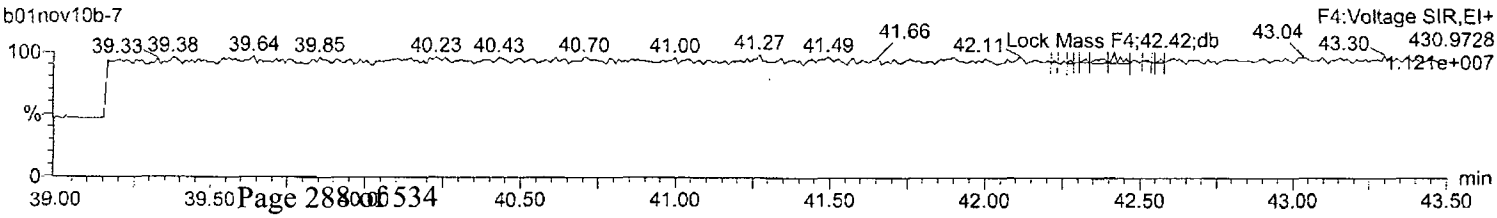
13C-1234678-HpCDF



NoDPE



Lock Mass F4



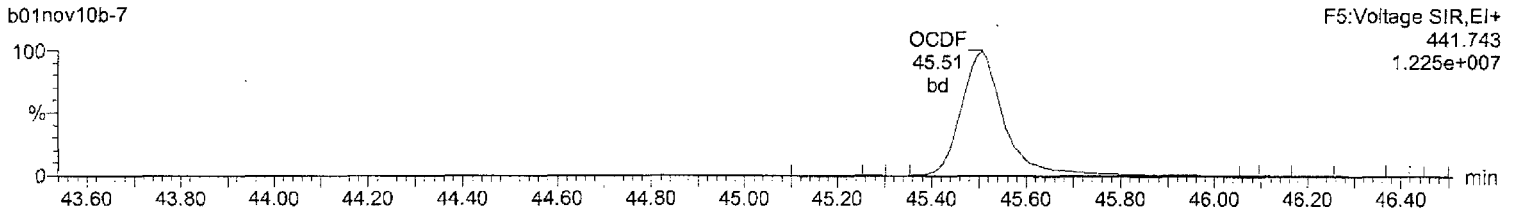
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

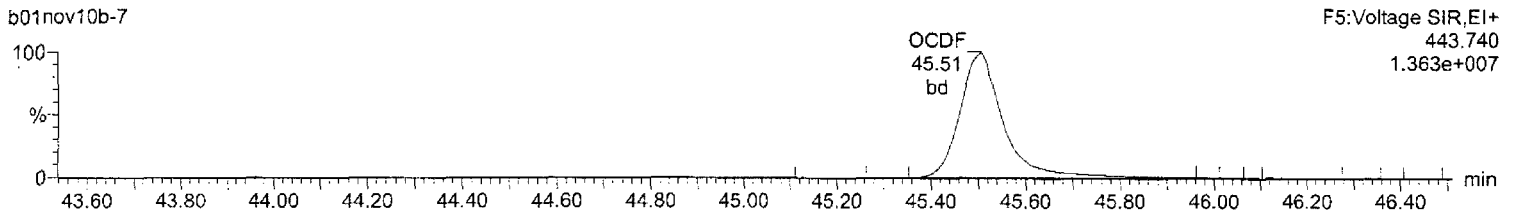
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-7, Date: 01-Nov-2010, Time: 22:29:56, ID: CS4 UD101022-05, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

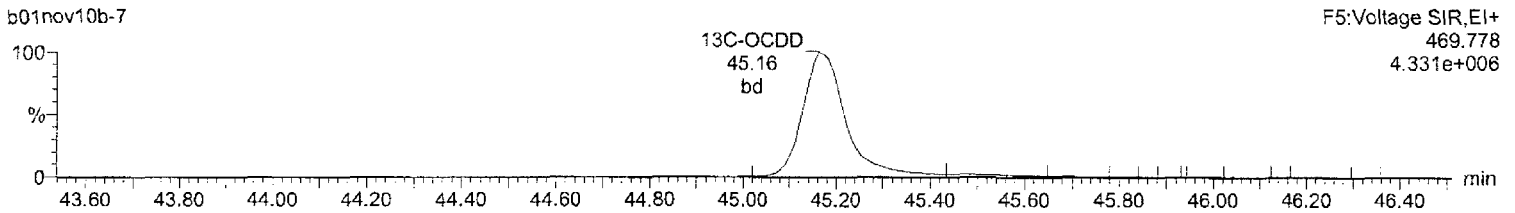
OCDF



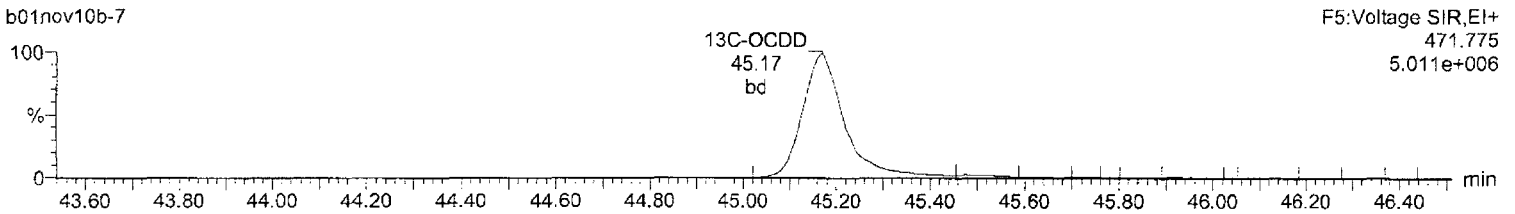
OCDF



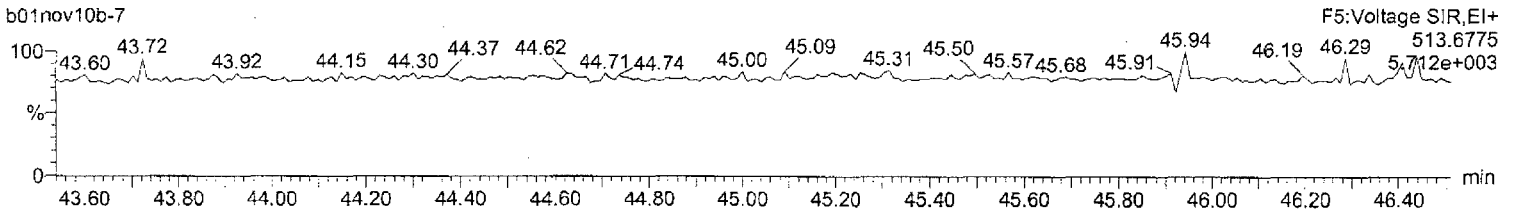
13C-OCDD



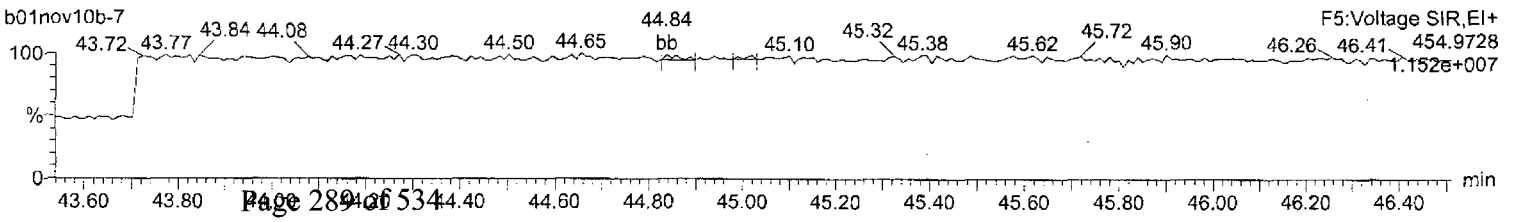
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

Last Altered: Tuesday, November 02, 2010 08:19:01 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:23:00 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
	2378-TCDD	1.21e6	1.55e6	2.75e6	31.76	1.00	0.78	NO	203.291	1.029	0.0369	2.38e7	1758	13540.3	3.02e7	1613	18739.8	bb
	12378-PeCDD	8.03e6	5.09e6	1.31e7	34.55	1.00	1.58	NO	1050.368	1.084	0.0858	1.79e8	4027	44498.4	1.16e8	4128	28005.5	bb
3	123478-HxCDD	6.46e6	5.11e6	1.16e7	37.23	1.00	1.26	NO	1066.500	0.956	0.275	1.22e8	9873	12328.0	9.94e7	8153	12191.6	bd
4	123678-HxCDD	6.84e6	5.35e6	1.22e7	37.32	1.00	1.28	NO	1041.096	1.008	0.255	1.24e8	9873	12589.6	9.73e7	8153	11938.2	db
5	123789-HxCDD	6.22e6	4.92e6	1.11e7	37.57	1.01	1.26	NO	1063.636	0.920	0.285	1.12e8	9873	11313.2	8.68e7	8153	10645.1	bb
6	1234678-HpCDD	4.87e6	4.67e6	9.54e6	40.75	1.00	1.04	NO	1073.286	1.078	0.389	6.70e7	7541	8885.0	6.56e7	8208	7992.9	bb
7	OCDD	8.19e6	9.15e6	1.73e7	45.19	1.00	0.89	NO	2158.822	1.075	0.556	8.52e7	10245	8314.3	9.56e7	5089	18785.3	bd
8	2378-TCDF	1.90e6	2.44e6	4.34e6	31.22	1.00	0.78	NO	211.980	1.042	0.0453	3.14e7	2050	15299.3	4.10e7	3070	13365.3	bb
9	12378-PeCDF	1.24e7	8.06e6	2.05e7	33.72	1.00	1.54	NO	1031.391	0.964	0.145	2.77e8	10398	26637.5	1.80e8	12181	14772.8	bd
10	23478-PeCDF	1.22e7	8.00e6	2.02e7	34.35	1.02	1.53	NO	1039.676	0.951	0.148	2.71e8	10398	26028.5	1.77e8	12181	14511.6	bb
11	123478-HxCDF	9.04e6	7.32e6	1.64e7	36.49	1.00	1.24	NO	1041.712	0.947	0.343	1.87e8	17449	10691.7	1.49e8	14744	10125.7	bd
12	123678-HxCDF	1.06e7	8.66e6	1.93e7	36.60	1.00	1.23	NO	1055.199	1.116	0.295	1.92e8	17449	11028.2	1.57e8	14744	10670.0	db
13	234678-HxCDF	9.86e6	7.97e6	1.78e7	37.10	1.01	1.24	NO	1079.383	1.032	0.326	1.79e8	17449	10259.7	1.47e8	14744	9958.8	bd
14	123789-HxCDF	7.98e6	6.45e6	1.44e7	37.91	1.04	1.24	NO	1054.670	0.835	0.394	1.32e8	17449	7584.2	1.08e8	14744	7346.5	bb
15	1234678-HpCDF	8.14e6	7.93e6	1.61e7	39.45	1.00	1.03	NO	1060.626	1.354	0.372	1.30e8	13791	9404.8	1.25e8	15180	8242.1	bb
16	1234789-HpCDF	6.01e6	5.84e6	1.19e7	41.46	1.05	1.03	NO	1073.172	0.998	0.510	7.82e7	13791	5669.5	7.54e7	15180	4964.9	bb
17	OCDF	1.04e7	1.16e7	2.20e7	45.51	1.01	0.89	NO	2213.282	1.364	0.580	1.07e8	8506	12623.2	1.22e8	11279	10832.1	bb
18	13C-2378-TCDD	5.91e5	7.47e5	1.34e6	31.73	1.01	0.79	NO	108.891	1.219	0.0612	1.19e7	2955	4042.3	1.53e7	1573	9737.9	bb
19	13C-12378-PeCDD	7.43e5	4.68e5	1.21e6	34.53	1.10	1.59	NO	116.103	1.103	0.0736	1.69e7	2509	6753.9	1.05e7	2108	4994.3	bb
20	13C-123678-HxCDD	6.77e5	5.33e5	1.21e6	37.31	0.99	1.27	NO	101.303	1.126	0.105	1.23e7	4403	2787.1	9.63e6	3032	3176.2	db
21	13C-1234678-HpCDD	4.54e5	4.31e5	8.85e5	40.74	1.08	1.05	NO	102.873	0.824	0.131	6.20e6	3540	1751.9	6.05e6	3164	1911.0	bb
22	13C-OCDD	7.68e5	8.46e5	1.61e6	45.17	1.20	0.91	NO	224.803	0.751	0.164	7.90e6	2510	3147.9	8.66e6	4510	1920.2	bd
23	13C-2378-TCDF	9.23e5	1.16e6	2.08e6	31.21	1.00	0.80	NO	104.105	1.896	0.0316	1.53e7	1852	8255.9	1.96e7	1947	10061.0	bb
24	13C-12378-PeCDF	1.31e6	8.21e5	2.13e6	33.71	1.08	1.59	NO	114.461	1.937	0.123	3.07e7	8385	3661.8	1.96e7	5402	3622.9	bd
25	13C-123678-HxCDF	5.97e5	1.13e6	1.73e6	36.58	0.97	0.53	NO	98.698	1.609	0.117	1.07e7	7567	1414.3	2.04e7	4615	4418.9	db
26	13C-1234678-HpCDF	3.67e5	8.21e5	1.19e6	39.44	1.05	0.45	NO	102.265	1.105	0.120	5.65e6	3199	1766.5	1.26e7	5113	2466.9	bb
27	13C-1234-TCDD	4.88e5	6.10e5	1.10e6	31.34	0.00	0.80	NO	100.000	1.000	0.0686	8.81e6	2955	2979.9	1.08e7	1573	6893.5	bb
28	13C-123789-HxCDD	5.99e5	4.75e5	1.07e6	37.56	0.00	1.26	NO	100.000	1.000	0.116	1.07e7	4403	2428.5	8.38e6	3032	2765.4	bb
29	37Cl-2378-TCDD (SS)	2.85e6		2.85e6	31.75	1.00			201.816	1.064	0.0246	5.65e7	2336	24188.0				bb
30	13C-23478-PeCDF (SS)	1.20e6	7.70e5	1.97e6	34.34	1.02	1.56	NO	99.297	0.927	0.0886	2.67e7	8385	3189.4	1.70e7	5402	3142.4	bb
31	13C-123478-HxCDF (SS)	4.84e5	9.35e5	1.42e6	36.48	1.00	0.52	NO	101.376	0.821	0.146	9.89e6	7567	1306.6	1.90e7	4615	4116.3	bd
32	13C-123478-HxCDD (SS)	6.08e5	4.75e5	1.08e6	37.22	1.00	1.28	NO	103.981	0.895	0.118	1.09e7	4403	2479.6	8.55e6	3032	2821.0	bd
33	13C-1234789-HpCDF (SS)	2.84e5	6.39e5	9.22e5	41.45	1.05	0.44	NO	102.742	0.777	0.180	3.67e6	3199	1146.9	7.97e6	5113	1559.6	bb

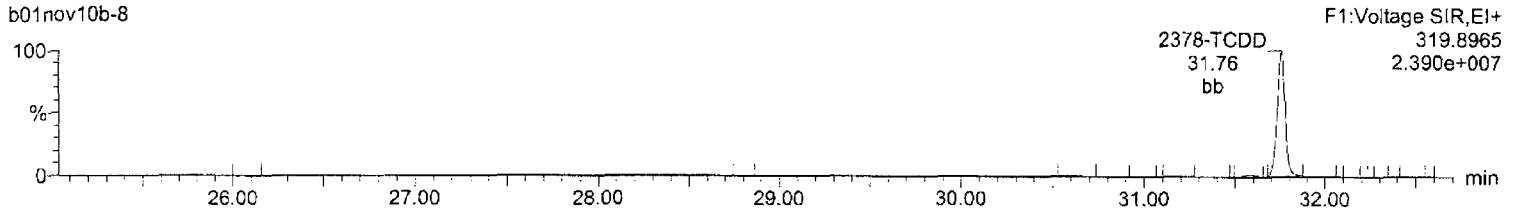
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

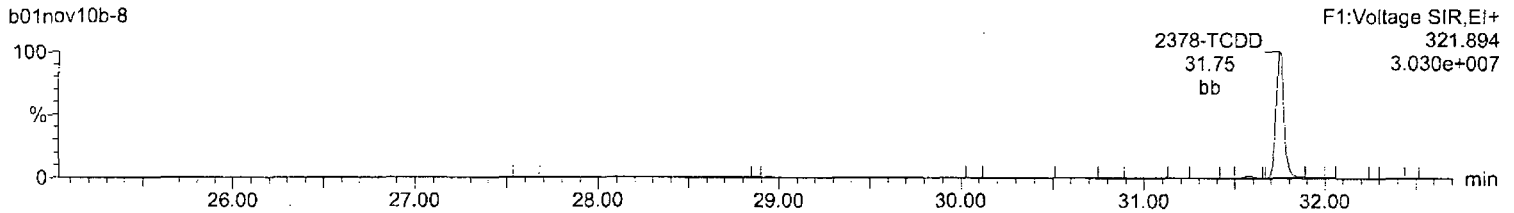
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

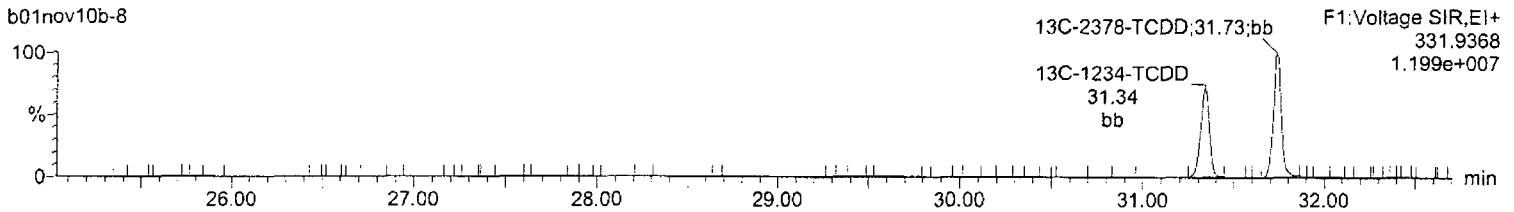
Total-tetradioxins



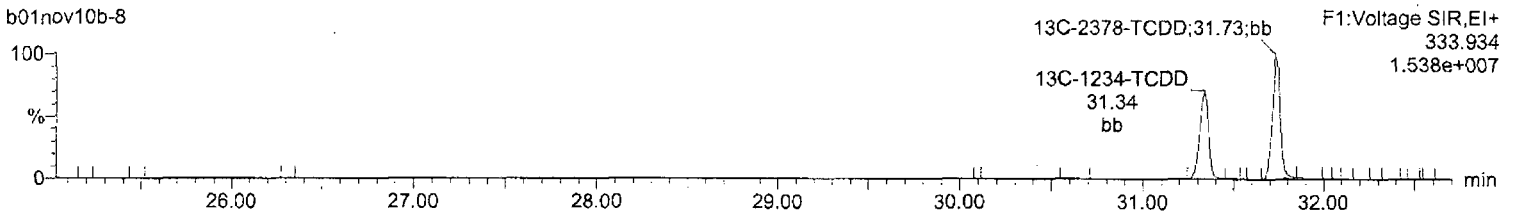
Total-tetradioxins



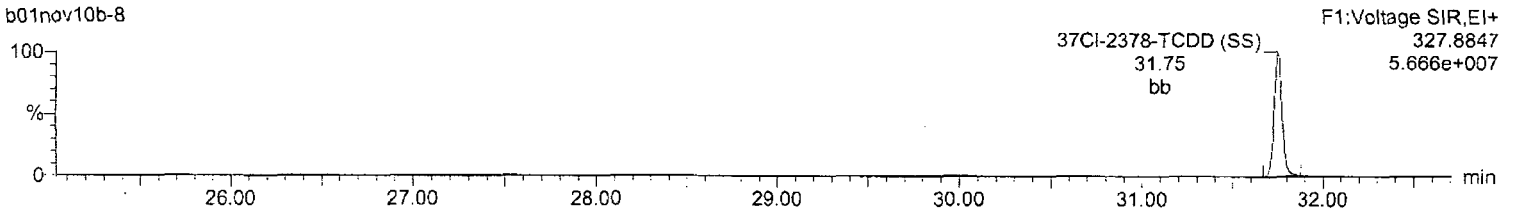
13C-2378-TCDD



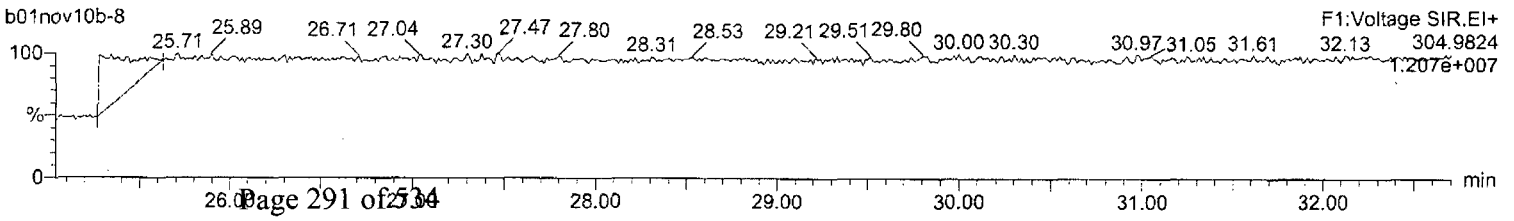
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



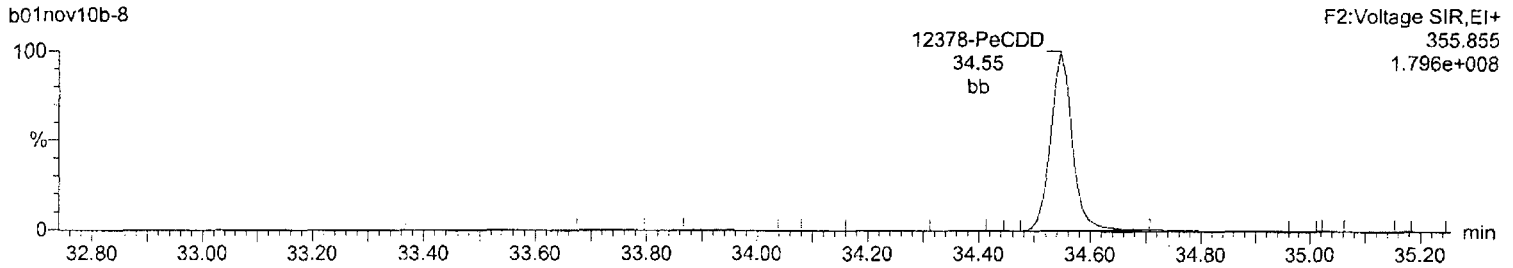
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

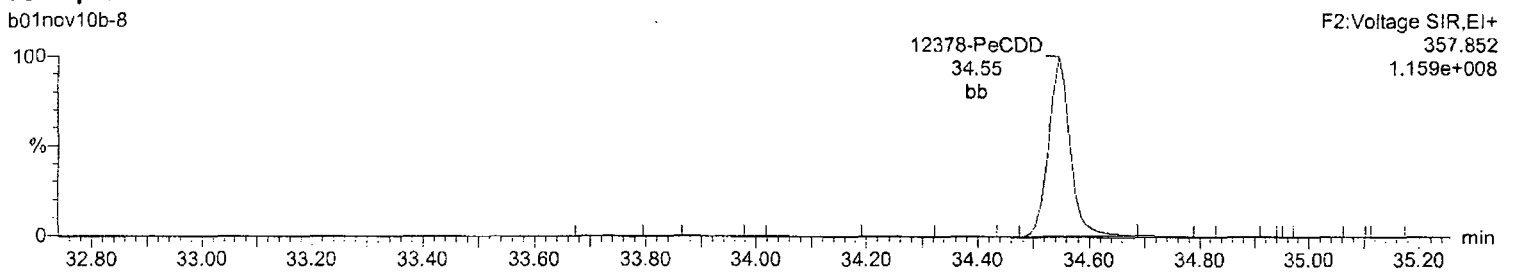
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

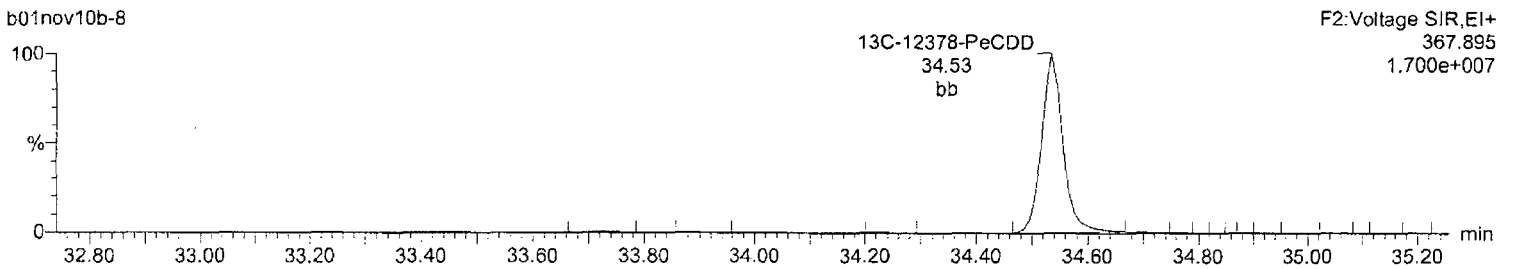
Total-pentadioxins



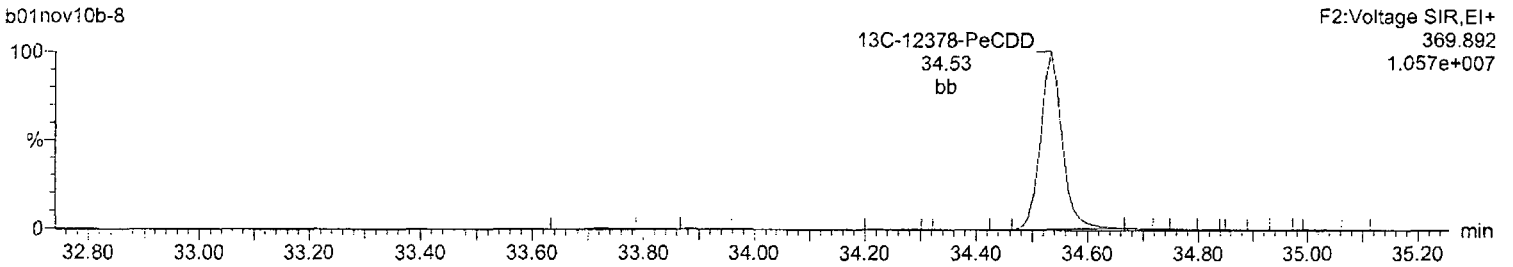
Total-pentadioxins



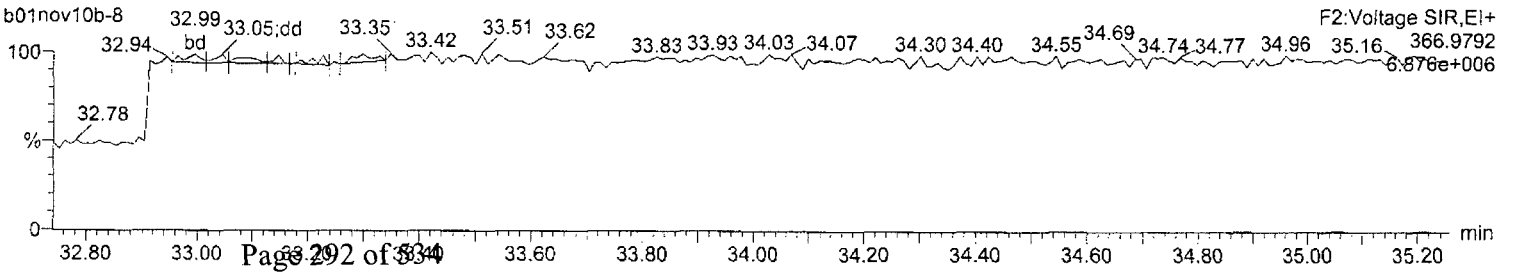
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



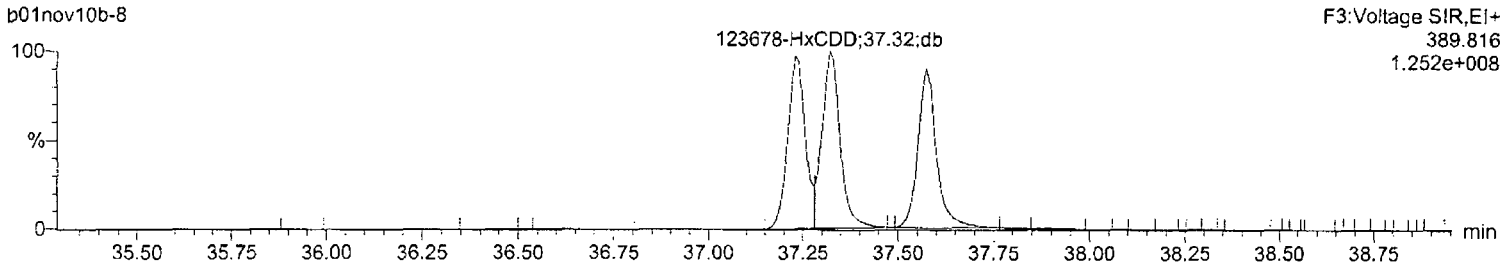
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

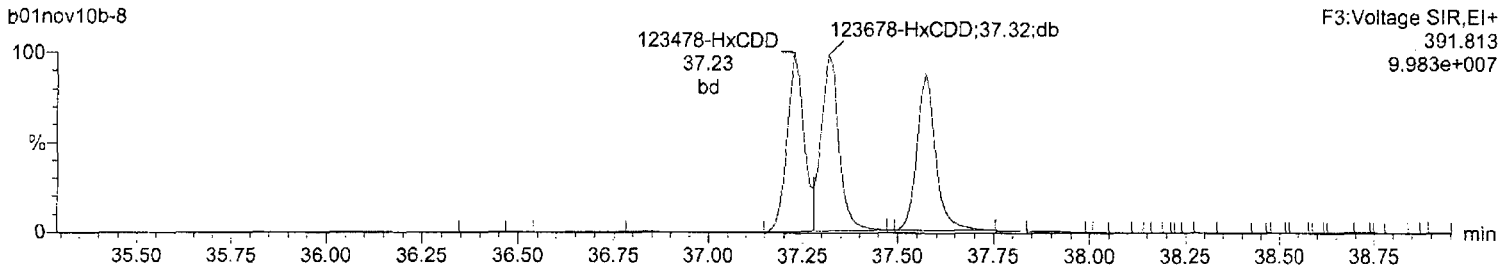
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

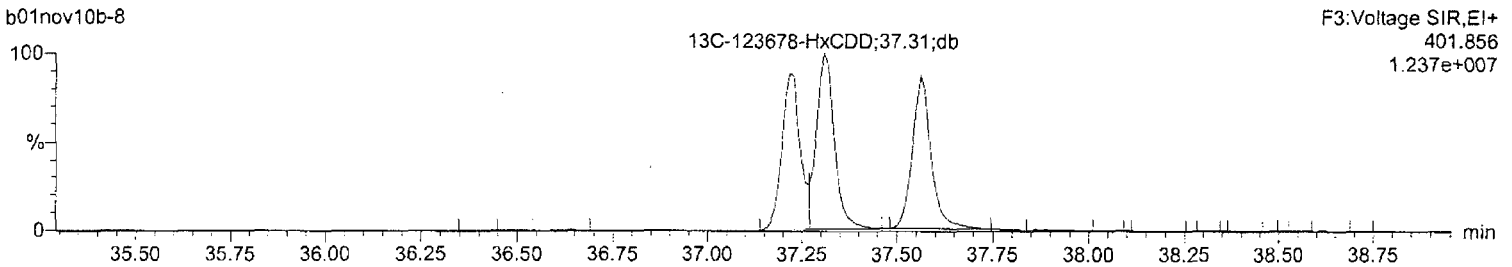
Total-hexadioxins



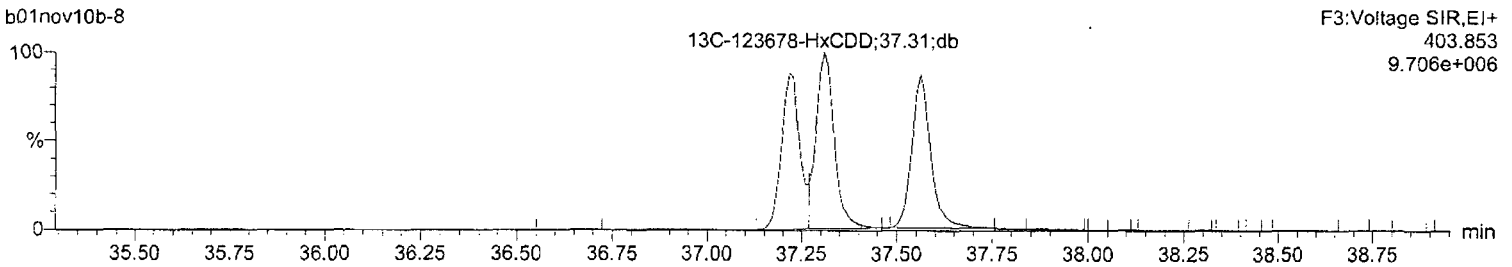
Total-hexadioxins



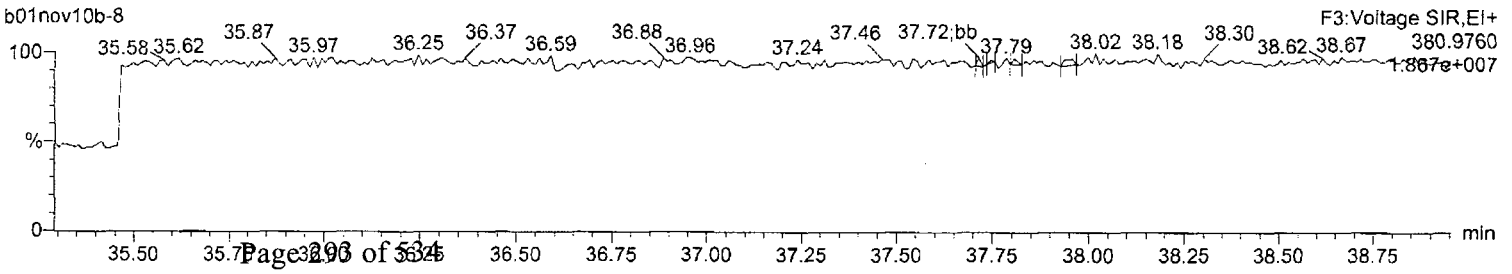
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



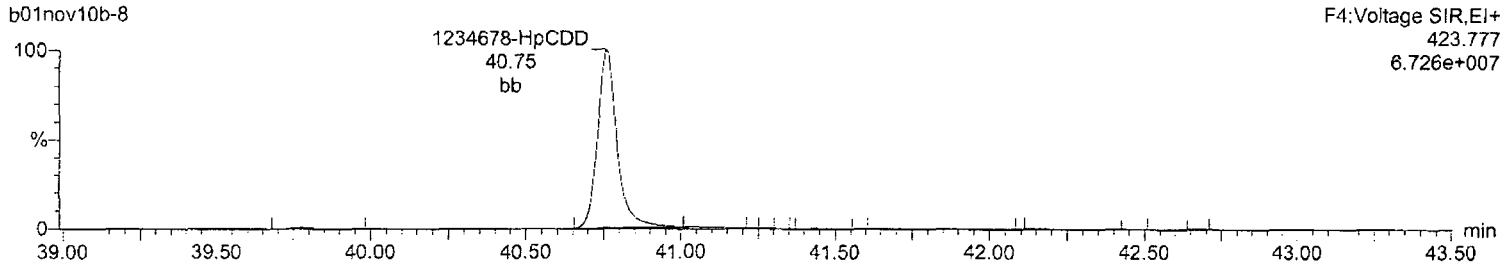
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

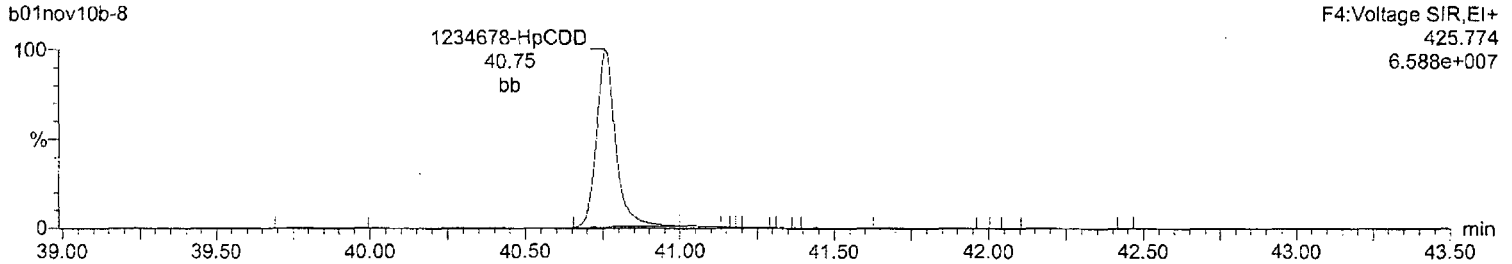
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

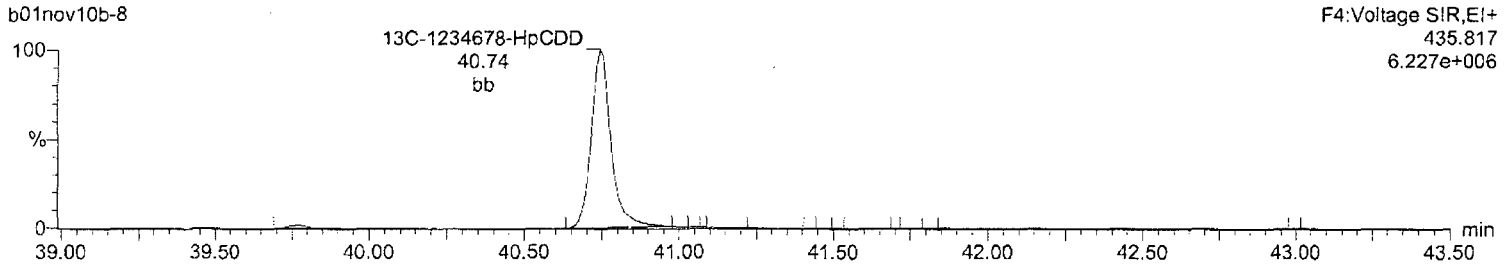
Total-heptadioxins



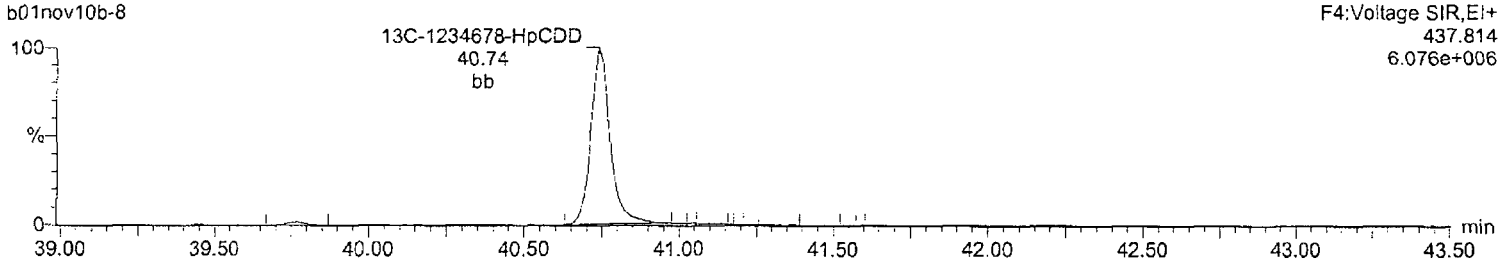
Total-heptadioxins



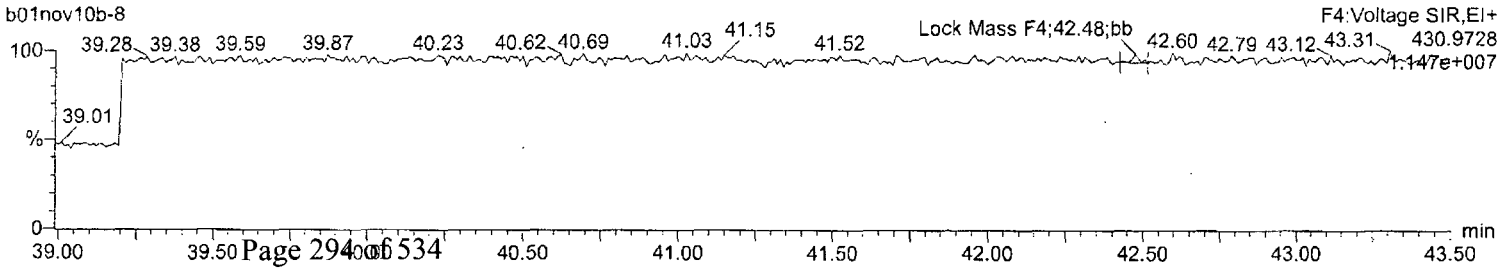
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



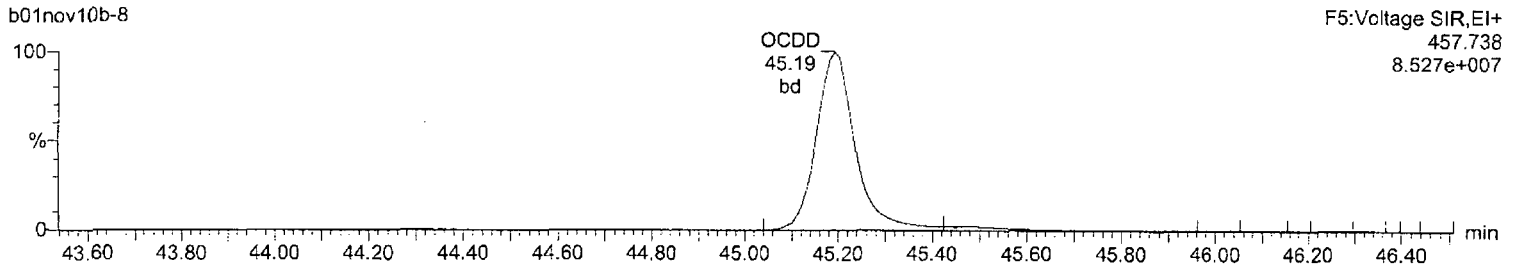
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

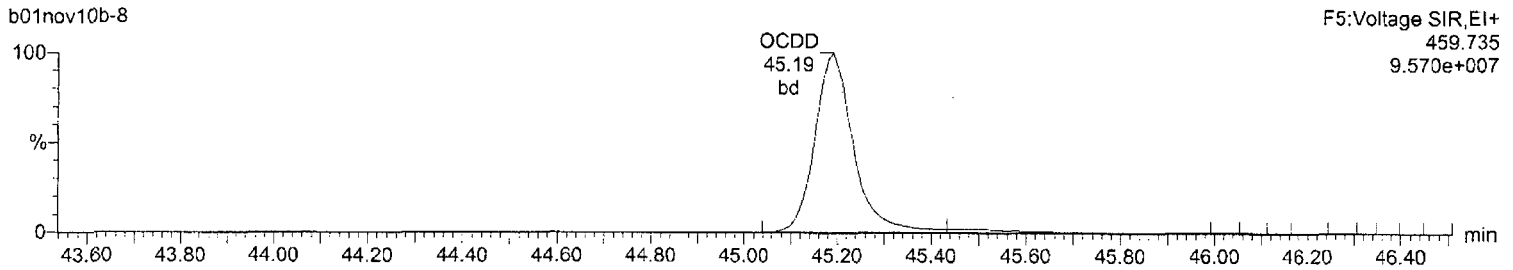
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

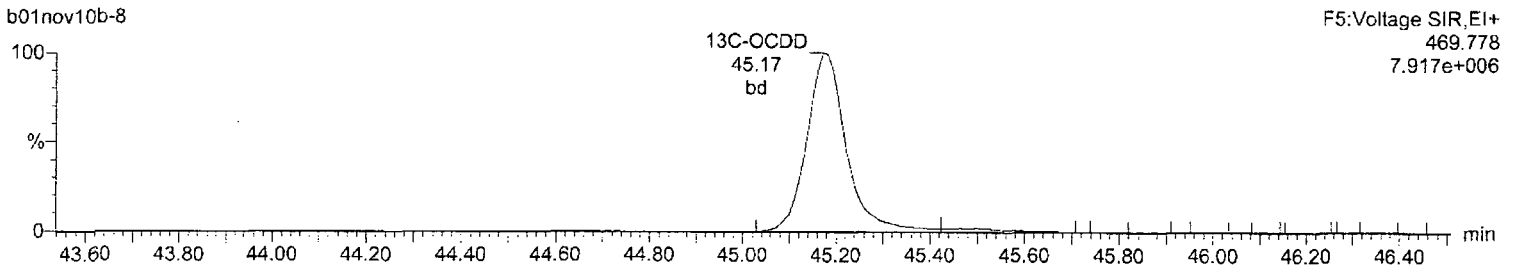
OCDD



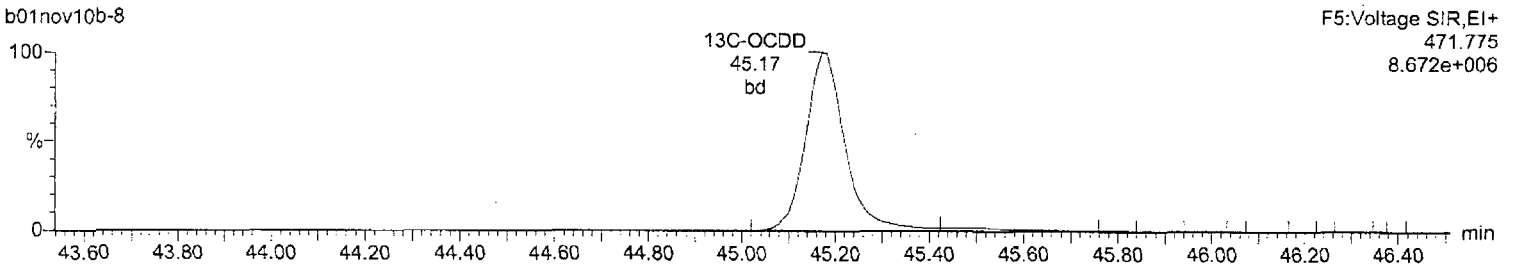
OCDD



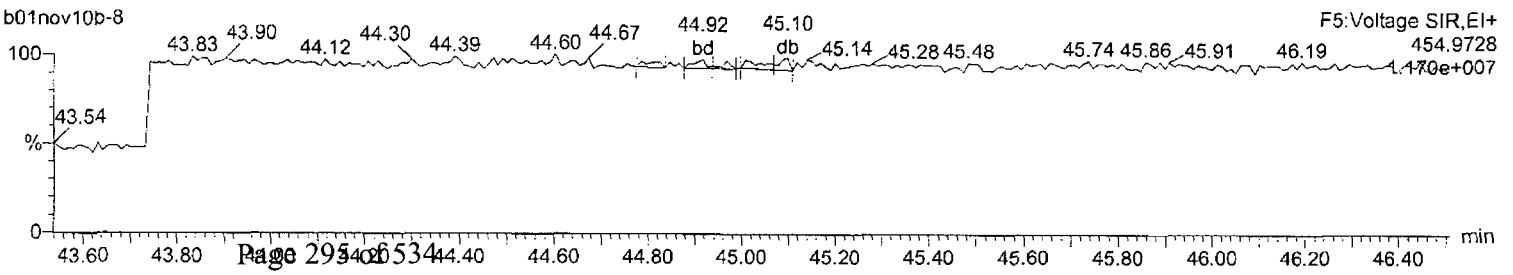
13C-OCDD



13C-OCDD



Lock Mass F5



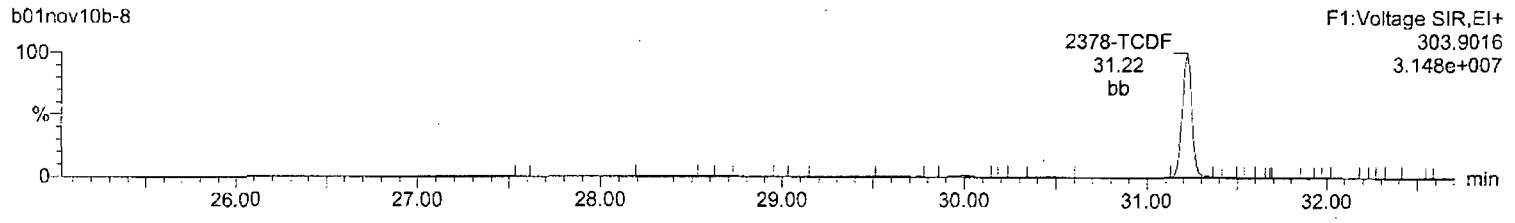
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

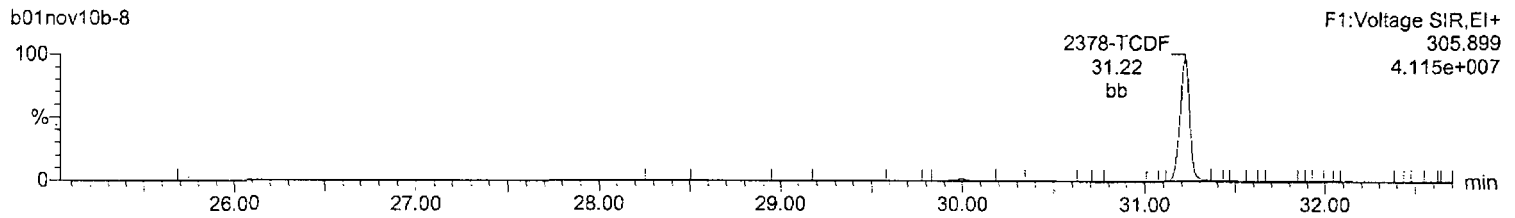
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

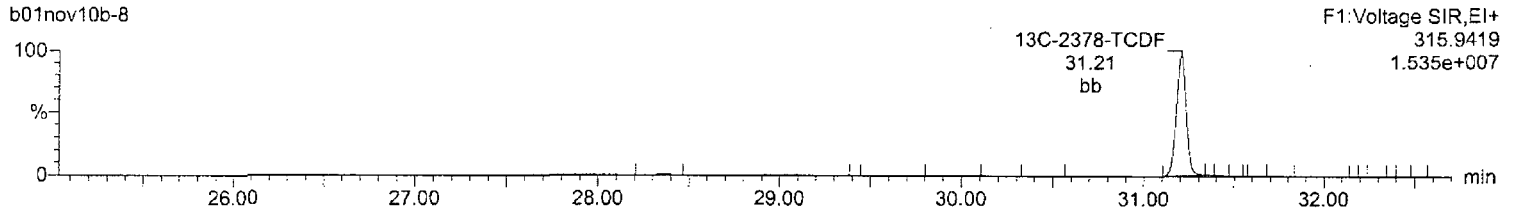
Total-tetrafurans



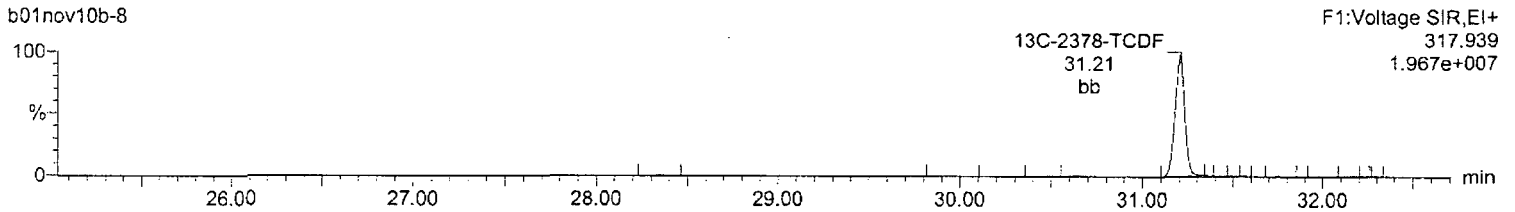
Total-tetrafurans



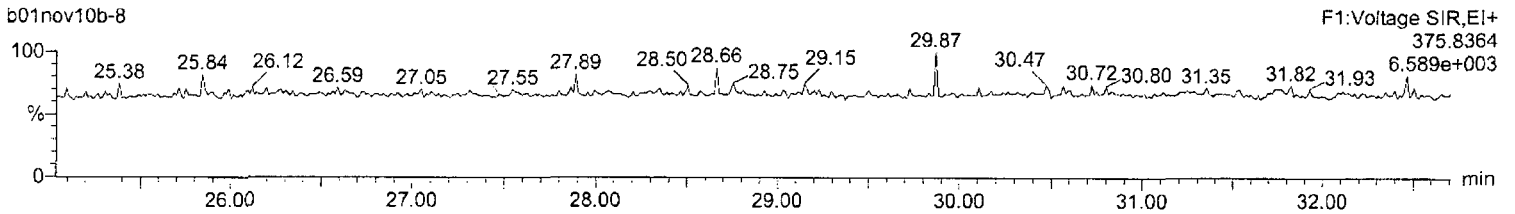
13C-2378-TCDF



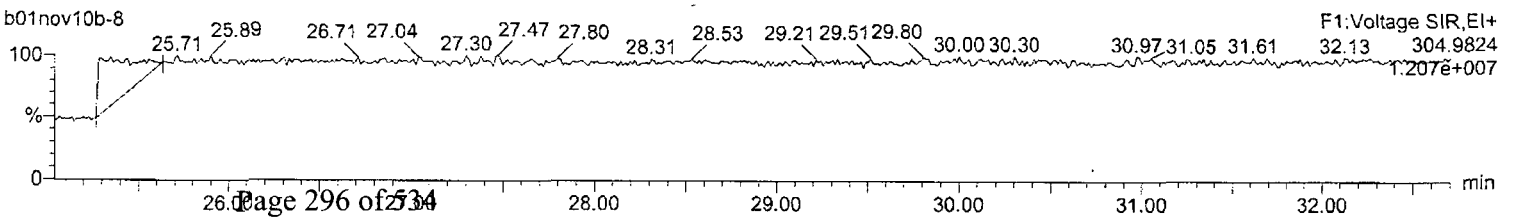
13C-2378-TCDF



HxDPE



Lock Mass F1



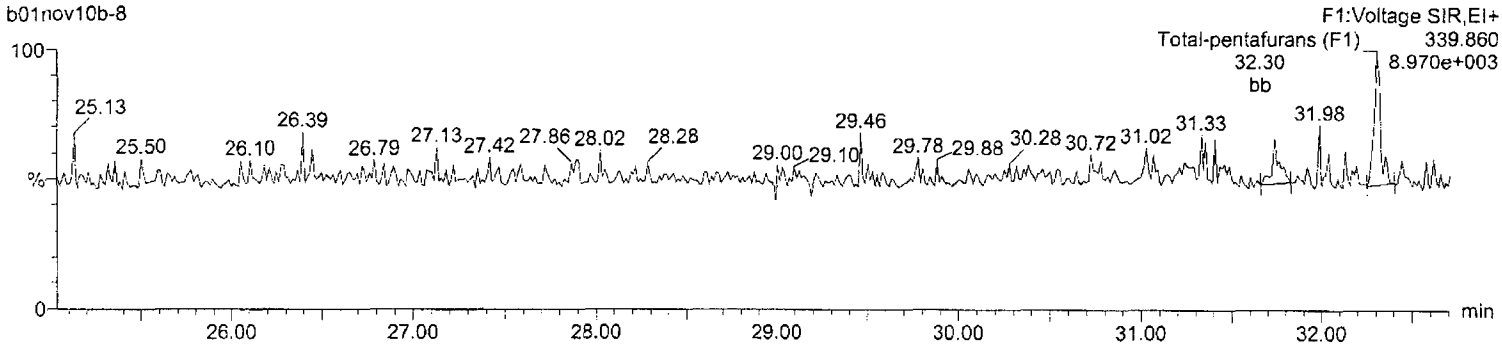
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

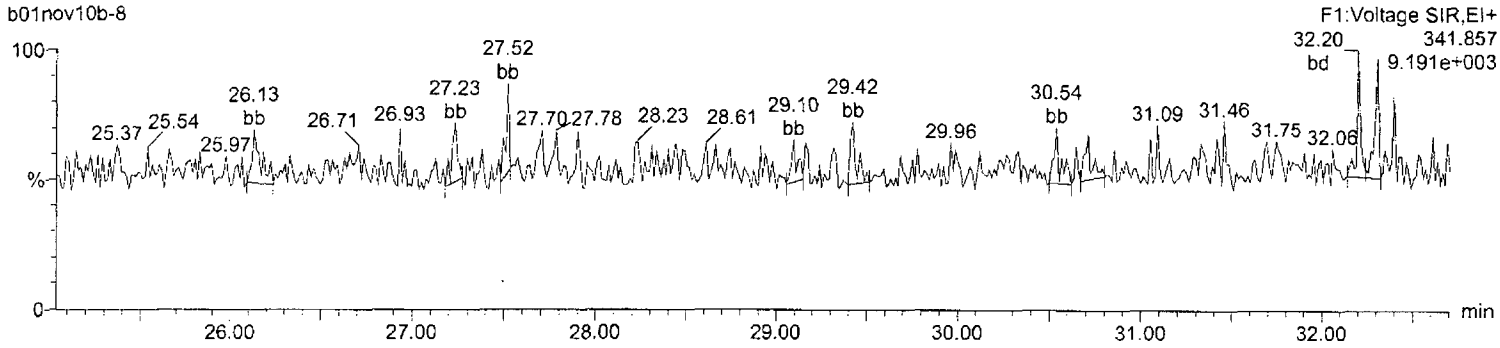
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

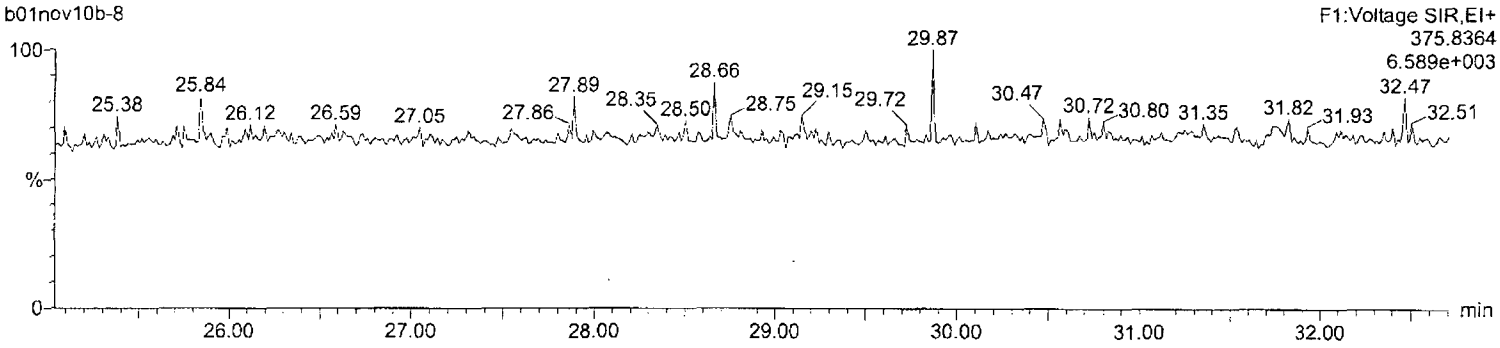
Total-pentafurans (F1)



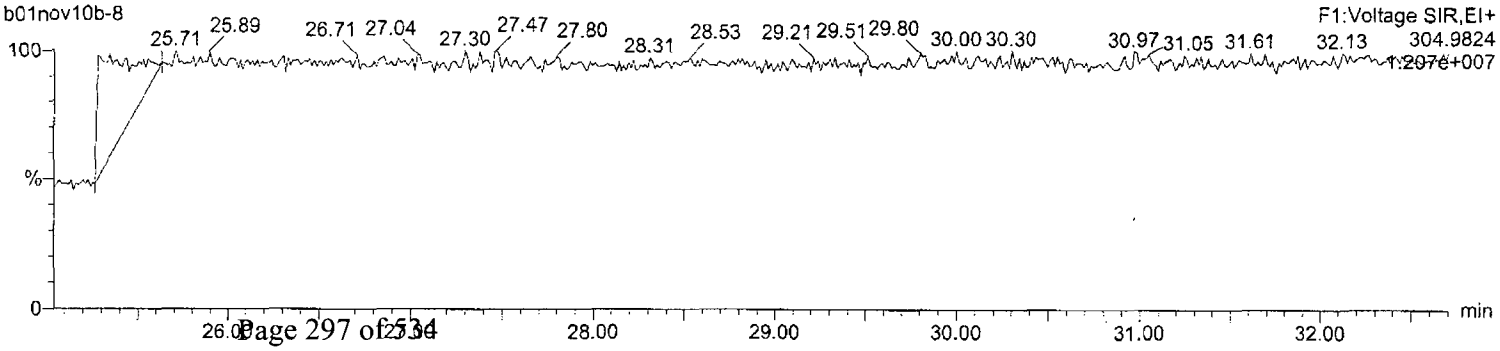
Total-pentafurans (F1)



HxDPE



Lock Mass F1



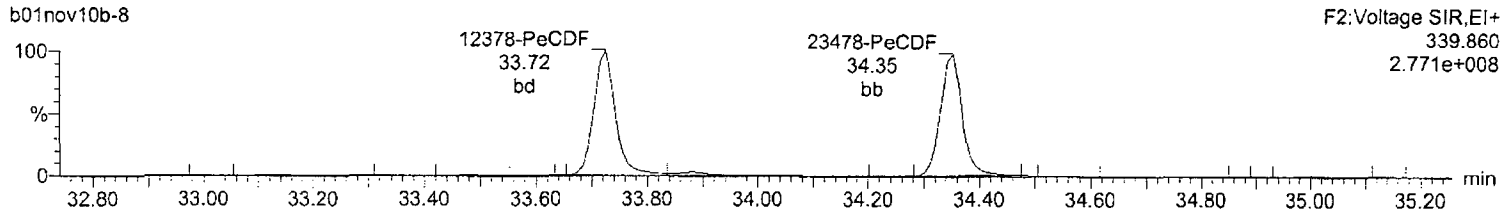
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

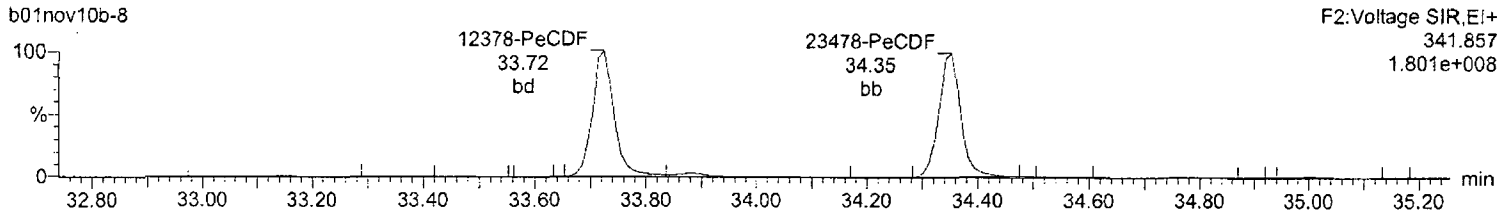
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

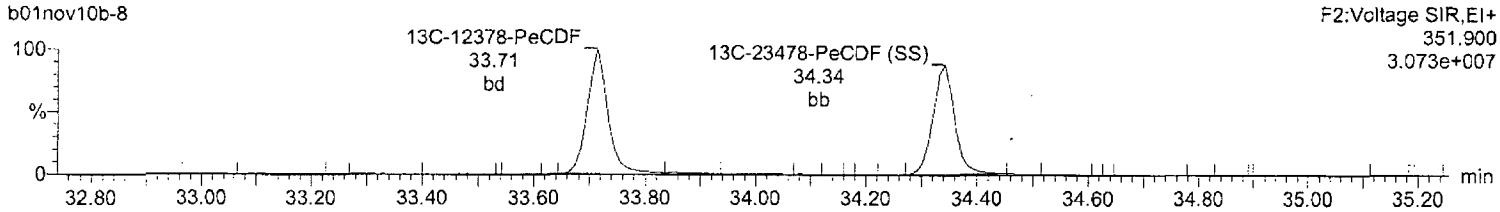
Total-pentafurans



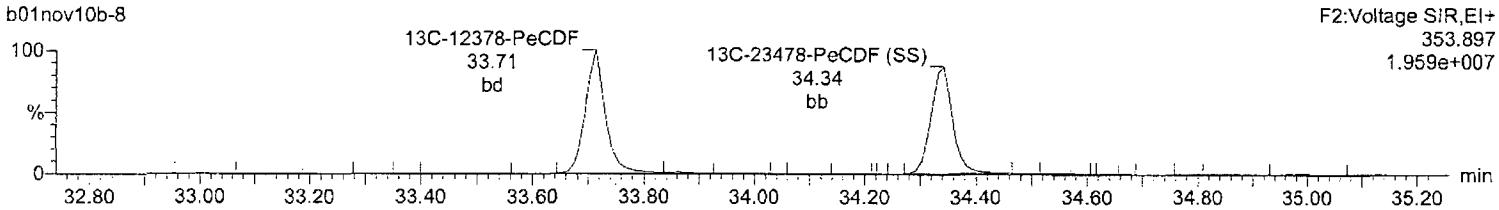
Total-pentafurans



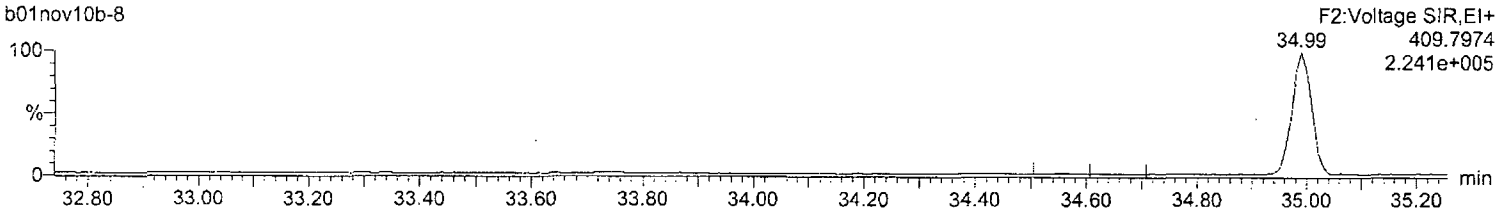
13C-12378-PeCDF



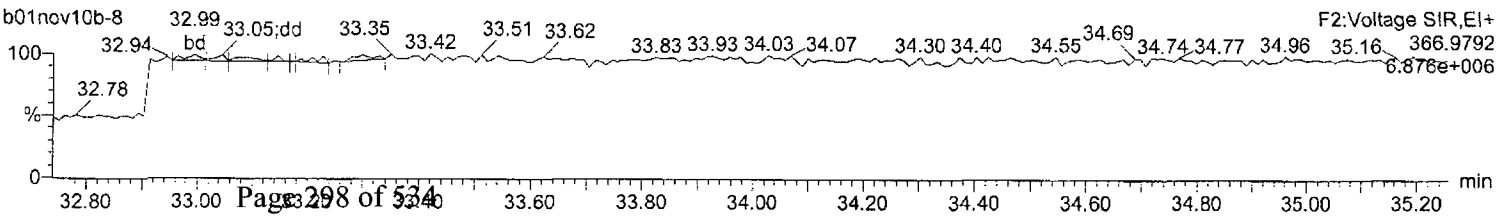
13C-12378-PeCDF



HpDPE



Lock Mass F2



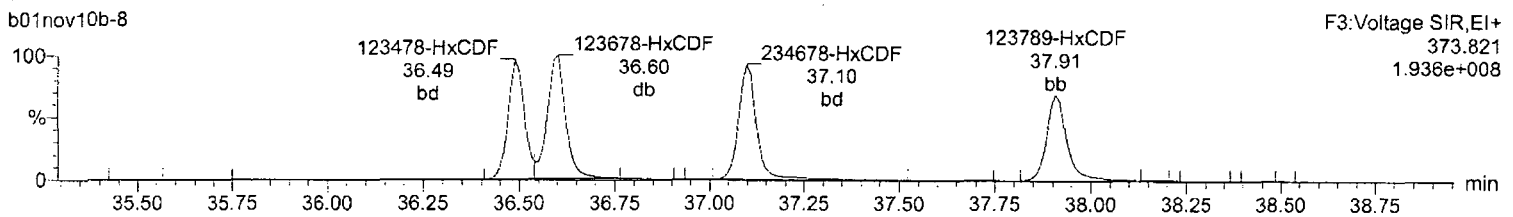
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

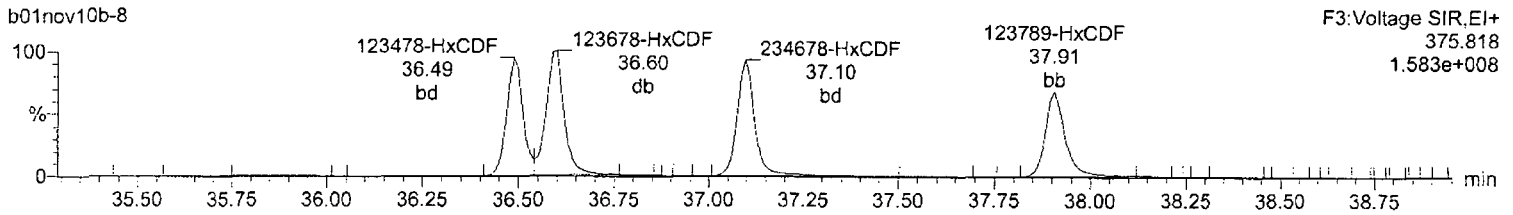
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

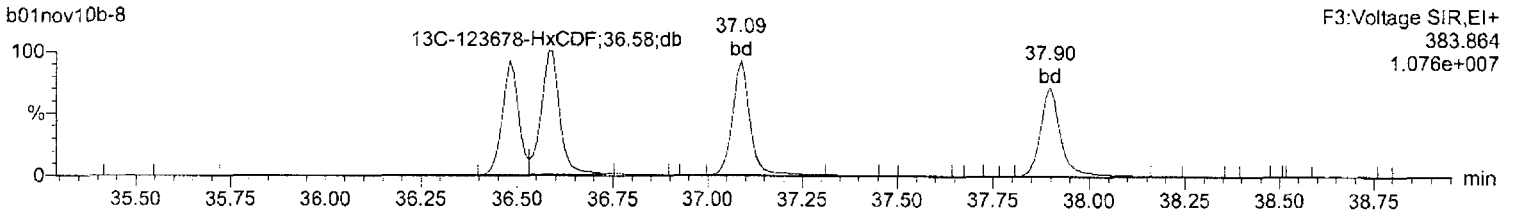
Total-hexafurans



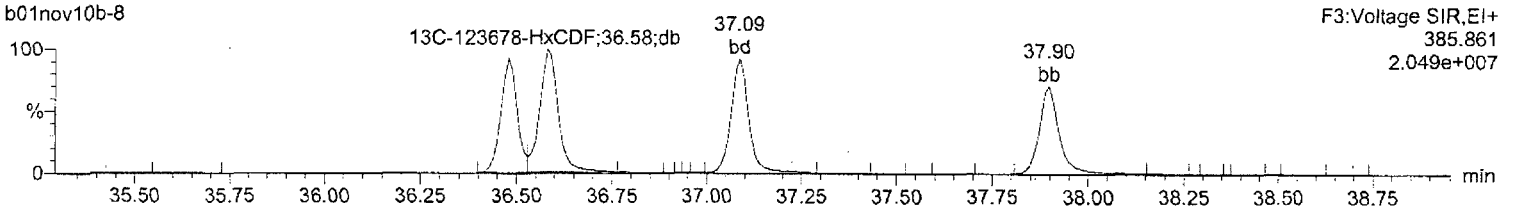
Total-hexafurans



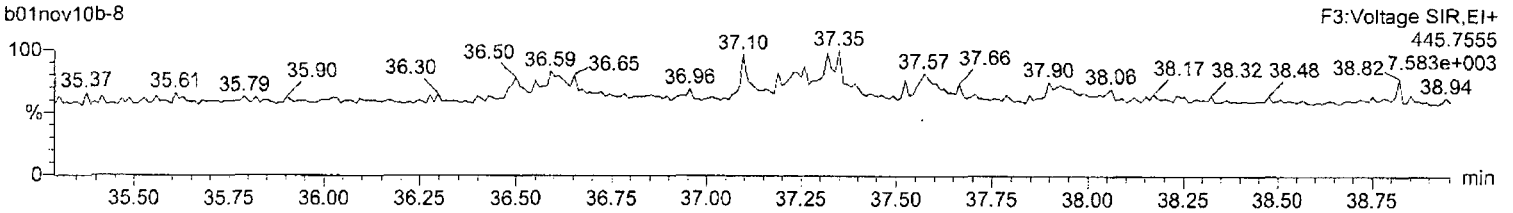
13C-123678-HxCDF



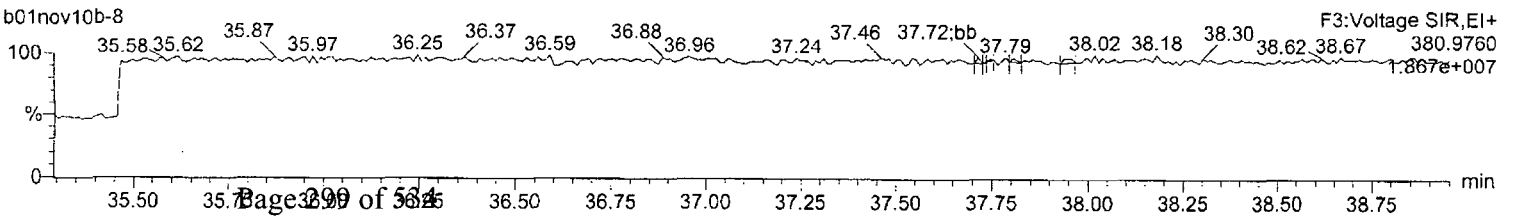
13C-123678-HxCDF



OcDPE



Lock Mass F3



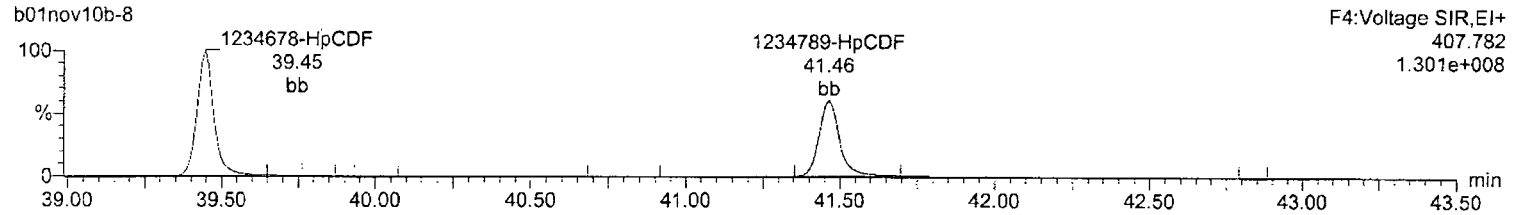
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

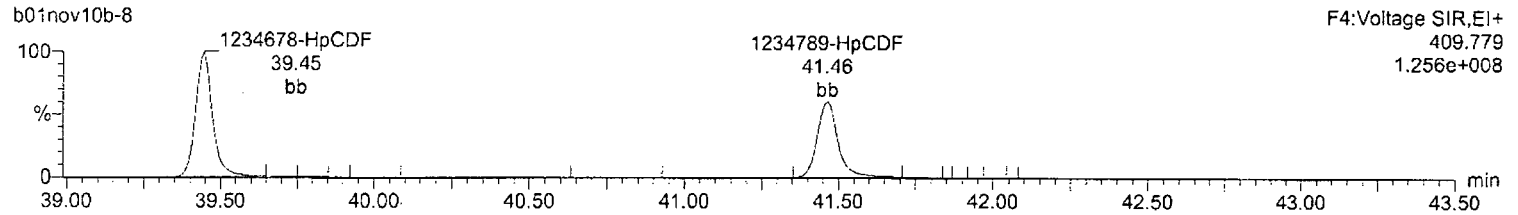
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

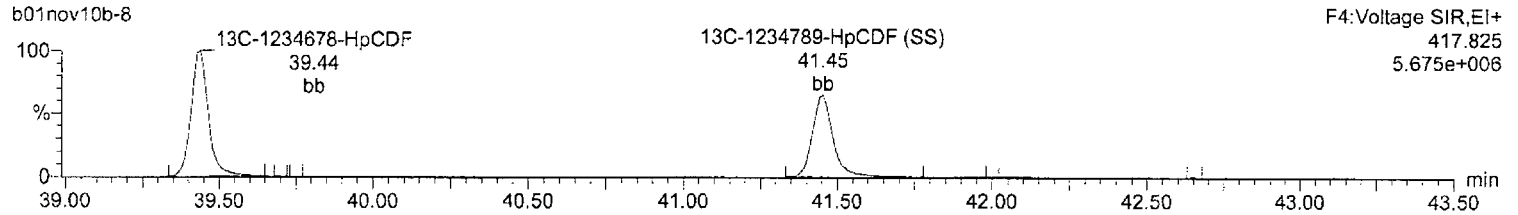
Total-heptafurans



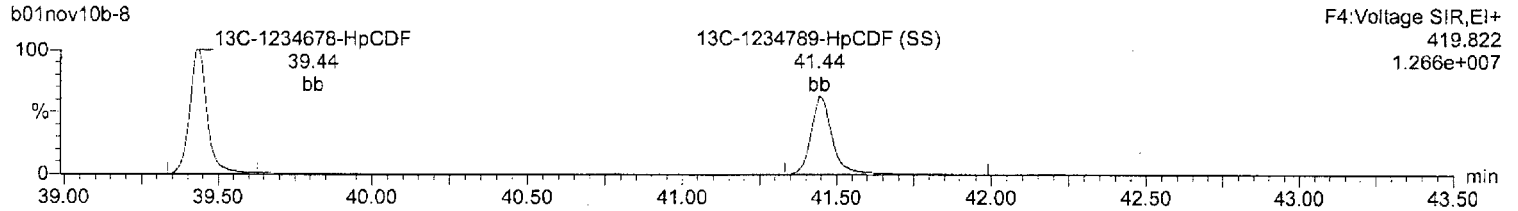
Total-heptafurans



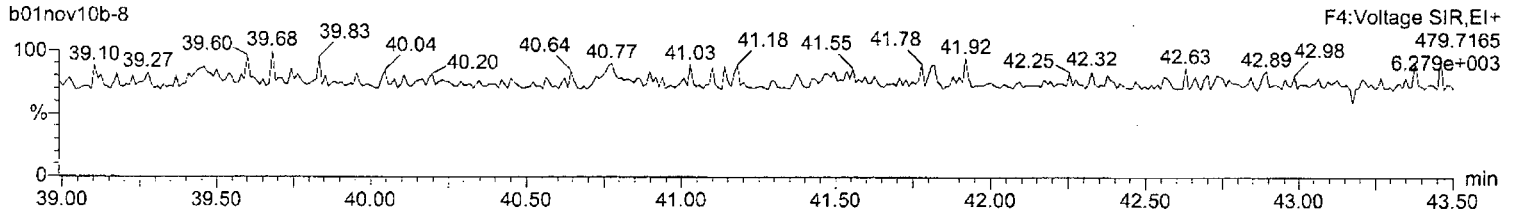
13C-1234678-HpCDF



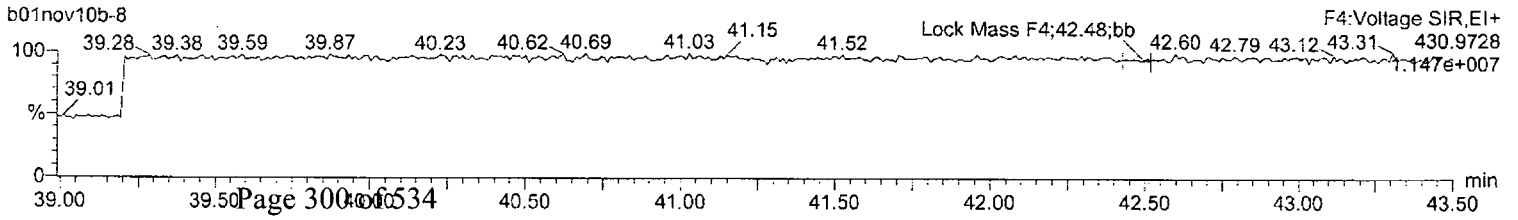
13C-1234678-HpCDF



NoDPE



Lock Mass F4



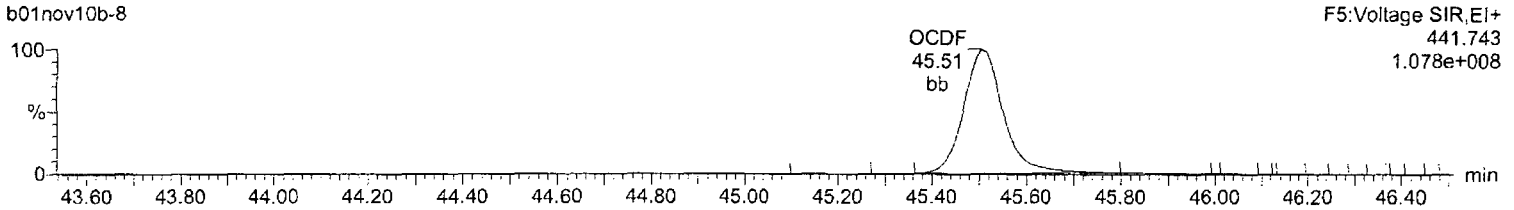
Quantify Sample Report **MassLynx 4.1**
Method 8290 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL Results\8290-b01nov10b.qld

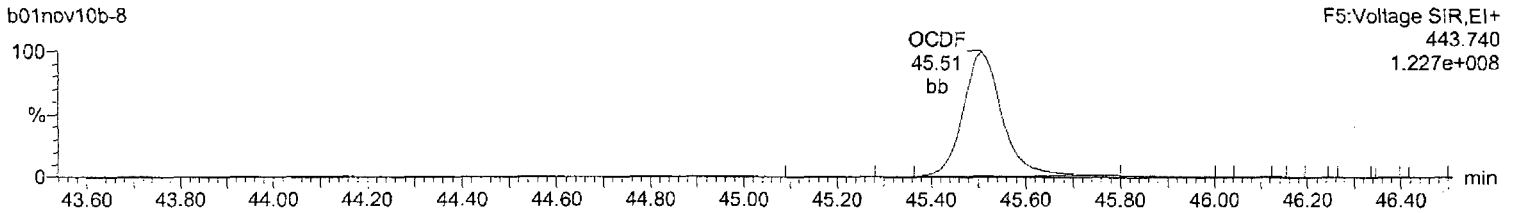
Last Altered: Tuesday, November 02, 2010 08:16:46 Eastern Standard Time
Printed: Tuesday, November 02, 2010 08:17:27 Eastern Standard Time

Name: b01nov10b-8, Date: 01-Nov-2010, Time: 23:18:22, ID: CS5 UD090323-06, Description: , Job: b01nov10b, Task: HRP763_1, User: MJC

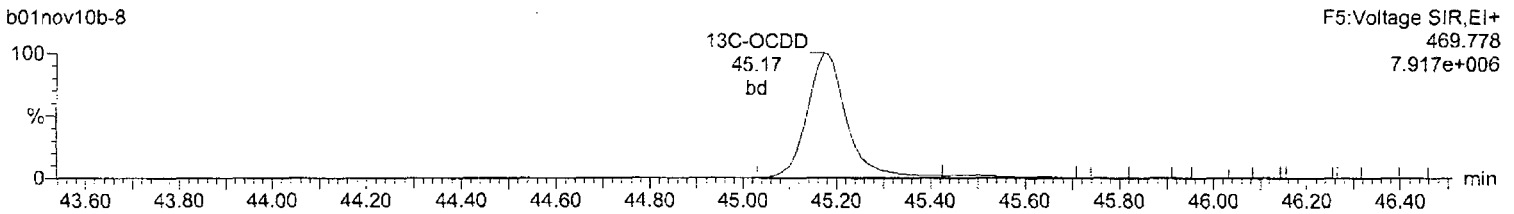
OCDF



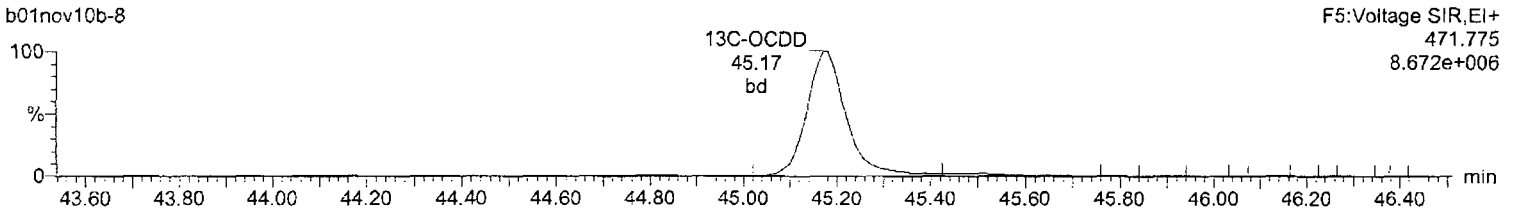
OCDF



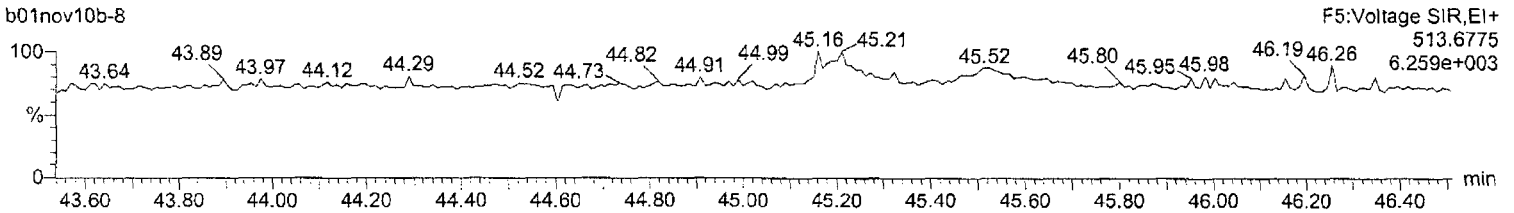
13C-OCDD



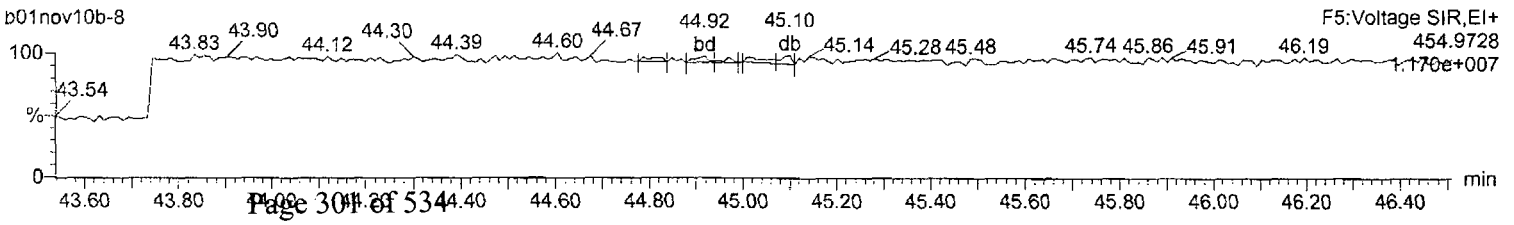
13C-OCDD



DeDPE



Lock Mass F5



Continuing Calibration Data

HMP
28Oct10

Runlog Information

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
	b26oct10a-1	HRP763_1	26-OCT-2010 17:34	b26oct10a	Matt Cash		CS3WT UD100713-01.2	1 uL
	b26oct10a-2	HRP763_1	26-OCT-2010 18:19	HMS1613_1S	Matt Cash	17073	12002034-1 LCS	1 uL
	b26oct10a-3	HRP763_1	26-OCT-2010 19:05	HMS1613_1S	Matt Cash	17073	12002035-1 LCSD	1 uL
	b26oct10a-4	HRP763_1	26-OCT-2010 19:51	HMS1613_1S	Matt Cash	17073	12002036-1 MB	1 uL
	b26oct10a-5	HRP763_1	26-OCT-2010 20:37	HMS1613_1S	Matt Cash	17073	1743001-1	1 uL
	b26oct10a-6	HRP763_1	26-OCT-2010 21:23	HMS1613_1S	Matt Cash	17073	12002037-1 MS	1 uL
	b26oct10a-7	HRP763_1	26-OCT-2010 22:09	HMS1613_1S	Matt Cash	17073	12002038-1 MSD	1 uL
	b26oct10a-8	HRP763_1	26-OCT-2010 22:55	HMS1613_1S	Matt Cash	17073	1743002-1	1 uL
	b26oct10a-9	HRP763_1	26-OCT-2010 23:41	HMS1613_1S	Matt Cash	17073	1743003-1	1 uL
	b26oct10a-10	HRP763_1	27-OCT-2010 00:27	HMS1613_1S	Matt Cash	17073	1743004-1	1 uL
	b26oct10a-11	HRP763_1	27-OCT-2010 01:13	HMS1613_1S	Matt Cash	17073	1743005-1	1 uL
	b26oct10a-12	HRP763_1	27-OCT-2010 01:59	HMS1613_1S	Matt Cash	17074	1743006-1	1 uL
	b26oct10a-13	HRP763_1	27-OCT-2010 02:45	HMS1613_1S	Matt Cash	17074	12002043-1 MS	1 uL
	b26oct10a-14	HRP763_1	27-OCT-2010 03:31	HMS1613_1S	Matt Cash	17074	12002044-1 MSD	1 uL
	b26oct10a-15	HRP763_1	27-OCT-2010 04:17	b26oct10a	Matt Cash		CS3WT UD100713-01.2	1 uL
	b26oct10a_2-1	HRP763_1	27-OCT-2010 05:11	HMS1613_1S	Matt Cash	17074	12002040-1 LCS	1 uL
	b26oct10a_2-2	HRP763_1	27-OCT-2010 05:57	HMS1613_1S	Matt Cash	17074	12002041-1 LCSD	1 uL
	b26oct10a_2-3	HRP763_1	27-OCT-2010 06:43	HMS1613_1S	Matt Cash	17074	12002042-1 MB	1 uL

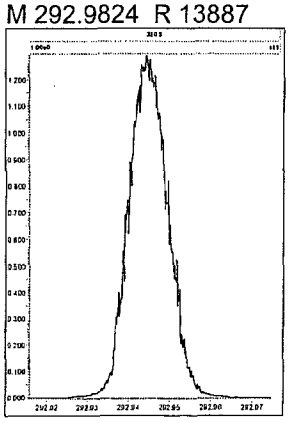
	b26oct10a_2-4	HRP763_1	27-OCT-2010 07:29	HMS1613_1S	Matt Cash	17074	1743007-1	1 uL
	b26oct10a_2-5	HRP763_1	27-OCT-2010 08:15	HMS1613_1S	Matt Cash	17074	1743008-1	1 uL
	b26oct10a_2-6	HRP763_1	27-OCT-2010 09:01	HMS1613_1S	Matt Cash	17074	1743009-1	1 uL
	b26oct10a_2-7	HRP763_1	27-OCT-2010 09:47	HMS1613_1S	Matt Cash	17074	1743010-1	1 uL
	b26oct10a_2-8	HRP763_1	27-OCT-2010 10:33	HMS1613_1S	Matt Cash	17074	1743011-1	1 uL
	b26oct10a_2-9	HRP763_1	27-OCT-2010 11:19	HMS1613_1S	Matt Cash	17074	1743012-1	1 uL
	b26oct10a_2-10	HRP763_1	27-OCT-2010 12:05	HMS1613_1S	Matt Cash	17074	1743013-1	1 uL
	b26oct10a_2-11	HRP763_1	27-OCT-2010 12:51	HMS1613_1S	Matt Cash	17074	1743014-1	1 uL
	b26oct10a_2-12	HRP763_1	27-OCT-2010 13:37	HMS1613_1S	Matt Cash	17074	1743015-1	1 uL
	b26oct10a_2-13	HRP763_1	27-OCT-2010 14:23	HMS1613_1S	Matt Cash	17074	1743016-1	1 uL
	b26oct10a_2-14	HRP763_1	27-OCT-2010 15:09	b26oct10a_2	Matt Cash		CS3WT UD100713-01.2	1 uL
	b26oct10a_3-1	HRP763_1	27-OCT-2010 16:03	HMS1613_1L	Matt Cash	17113	12002052-1 LCS	1 uL
	b26oct10a_3-2	HRP763_1	27-OCT-2010 16:48	HMS1613_1L	Matt Cash	17113	12002053-1 LCSD	1 uL
	b26oct10a_3-3	HRP763_1	27-OCT-2010 17:34	HMS1613_1L	Matt Cash	17113	12002054-1 MB	1 uL
	b26oct10a_3-4	HRP763_1	27-OCT-2010 18:20	HMS1613_1S	Matt Cash	17074	1743017-1	1 uL
	b26oct10a_3-5	HRP763_1	27-OCT-2010 19:06	HMS1613_1S	Matt Cash	17074	1743018-1	1 uL
	b26oct10a_3-6	HRP763_1	27-OCT-2010 19:52	HMS1613_1S	Matt Cash	17074	1743019-1	1 uL
	b26oct10a_3-7	HRP763_1	27-OCT-2010 20:38	HMS1613_1S	Matt Cash	17074	1743020-1	1 uL
	b26oct10a_3-8	HRP763_1	27-OCT-2010 21:24	HMS1613_1S	Matt Cash	17074	1743021-1	1 uL
	b26oct10a_3-9	HRP763_1	27-OCT-2010 22:10	HMS1613_1L	Matt Cash	17113	1712002-1	1 uL
	b26oct10a_3-10	HRP763_1	27-OCT-2010 22:56	HMS1613_1L	Matt Cash	17113	1750001-1	1 uL

•	b26oct10a_3-11	HRP763_1	27-OCT-2010 23:42	HMS1613_1L	Matt Cash	17113	12002055-1 MS	1 uL
•	b26oct10a_3-12	HRP763_1	28-OCT-2010 00:28	HMS1613_1L	Matt Cash	17113	12002056-1 MSD	1 uL
•	b26oct10a_3-13	HRP763_1	28-OCT-2010 01:14	HMS1613_1L	Matt Cash	17113	1750002-1	1 uL
•	b26oct10a_3-14	HRP763_1	28-OCT-2010 02:00	b26oct10a_3	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b26oct10a_4-1	HRP763_1	28-OCT-2010 02:54	HMS1613_1L	Matt Cash	17114	12002046-1 LCS	1 uL
•	b26oct10a_4-2	HRP763_1	28-OCT-2010 03:39	HMS1613_1L	Matt Cash	17114	12002047-1 LCSD	1 uL
•	b26oct10a_4-3	HRP763_1	28-OCT-2010 04:25	HMS1613_1L	Matt Cash	17114	12002048-1 MB	1 uL
•	b26oct10a_4-4	HRP763_1	28-OCT-2010 05:11	HMS1613_1L	Matt Cash	17114	1709004-1	1 uL
•	b26oct10a_4-5	HRP763_1	28-OCT-2010 05:57	HMS8290TCS	Matt Cash	17153	12002001-1 LCS	1 uL
•	b26oct10a_4-6	HRP763_1	28-OCT-2010 06:43	HMS8290TCS	Matt Cash	17153	12002002-1 LCSD	1 uL
•	b26oct10a_4-7	HRP763_1	28-OCT-2010 07:29	HMS8290TCS	Matt Cash	17153	12002003-1 MB	1 uL
•	b26oct10a_4-8	HRP763_1	28-OCT-2010 08:15	HMS8290TCS	Matt Cash	17153	1741001-1	1 uL
•	b26oct10a_4-9	HRP763_1	28-OCT-2010 09:01	HMS8290TCS	Matt Cash	17153	1741002-1	1 uL
•	b26oct10a_4-10	HRP763_1	28-OCT-2010 09:47	HMS8290TCS	Matt Cash	17153	1741003-1	1 uL
•	b26oct10a_4-11	HRP763_1	28-OCT-2010 10:33	HMS8290TCS	Matt Cash	17153	1741004-1	1 uL
•	b26oct10a_4-12	HRP763_1	28-OCT-2010 11:19	HMS8290TCS	Matt Cash	17153	1741005-1	1 uL
•	b26oct10a_4-13	HRP763_1	28-OCT-2010 12:06	HMS8290TCS	Matt Cash	17153	1741006-1	1 uL
•	b26oct10a_4-14	HRP763_1	28-OCT-2010 12:52	b26oct10a_4	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b26oct10a_5-1	HRP763_1	28-OCT-2010 13:46	b26oct10a_5	Matt Cash		SB	1 uL
•	b26oct10a_5-2	HRP763_1	28-OCT-2010 14:31	b26oct10a_5	Matt Cash		D077	1 uL
	Ion gauge blew, seq. stopped							

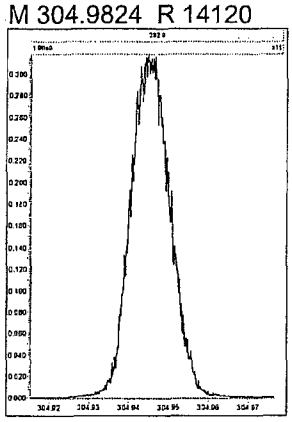
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, October 26, 2010 17:32:00 Eastern Standard Time

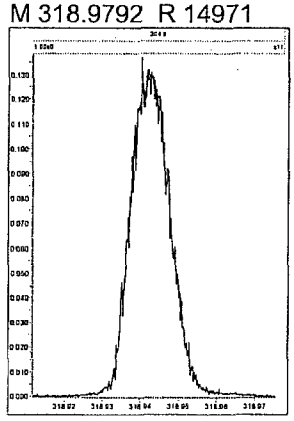
M 292.9824 R 13887



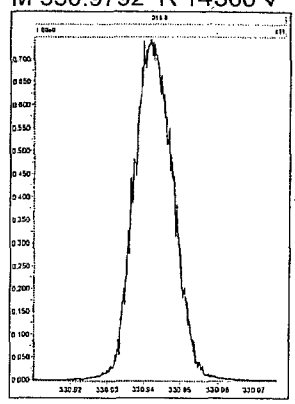
M 304.9824 R 14120



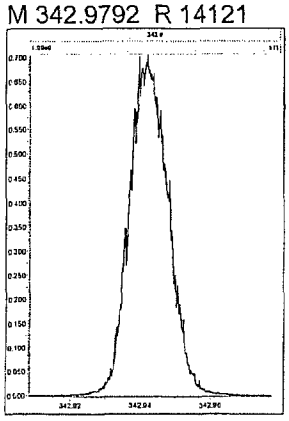
M 318.9792 R 14971



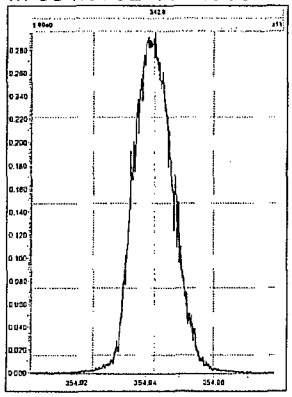
M 330.9792 R 14366 ✓



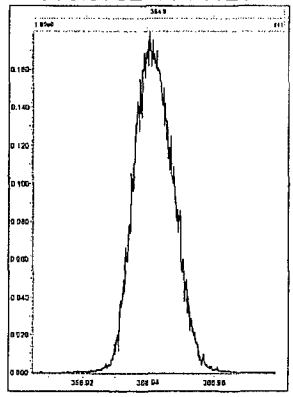
M 342.9792 R 14121



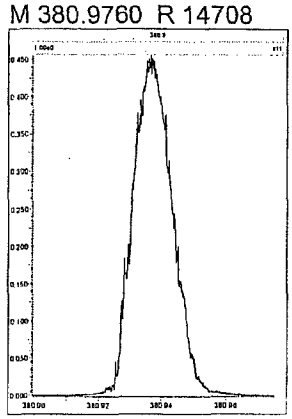
M 354.9792 R 14368



M 366.9792 R 14123



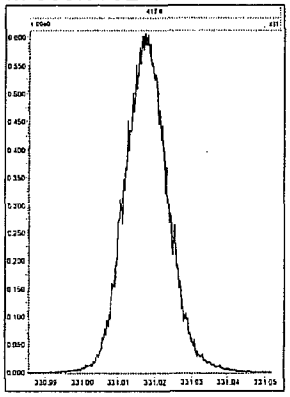
M 380.9760 R 14708



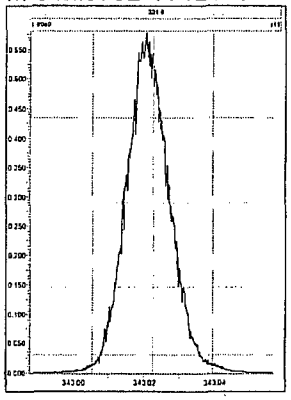
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, October 26, 2010 17:32:23 Eastern Standard Time

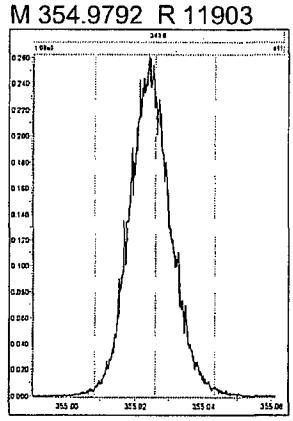
M 330.9792 R 12378



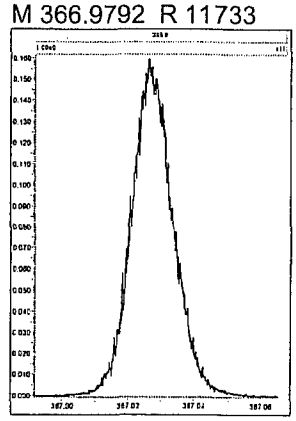
M 342.9792 R 12019



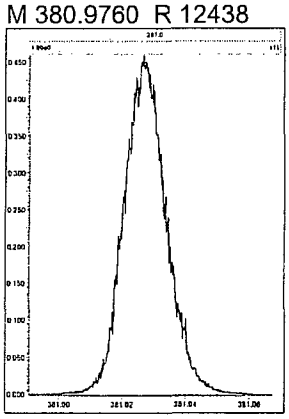
M 354.9792 R 11903



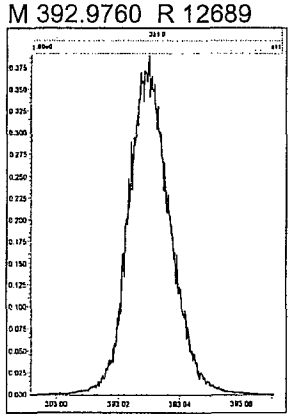
M 366.9792 R 11733



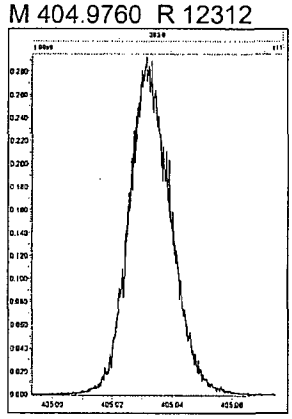
M 380.9760 R 12438



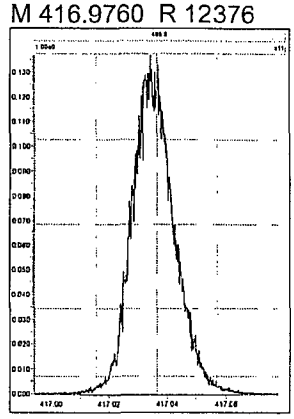
M 392.9760 R 12689



M 404.9760 R 12312



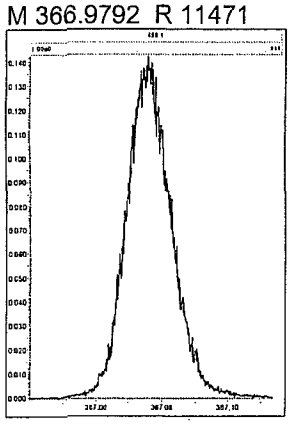
M 416.9760 R 12376



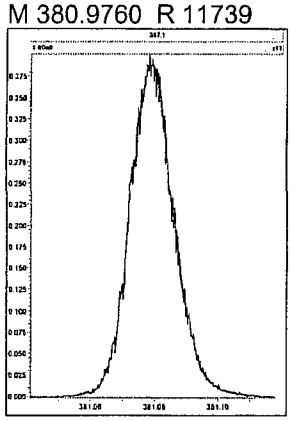
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, October 26, 2010 17:32:49 Eastern Standard Time

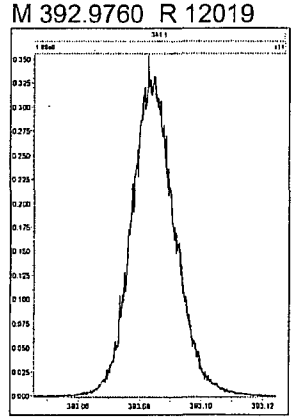
M 366.9792 R 11471



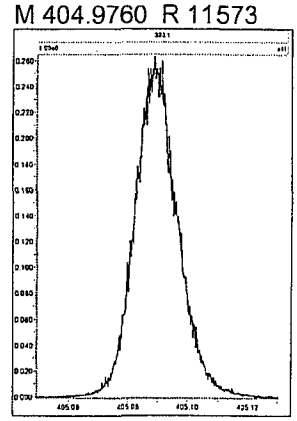
M 380.9760 R 11739



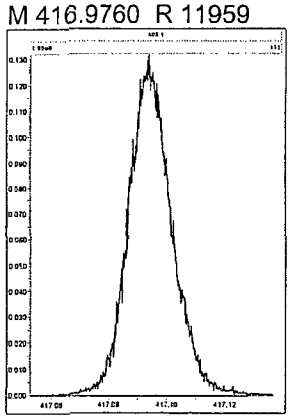
M 392.9760 R 12019



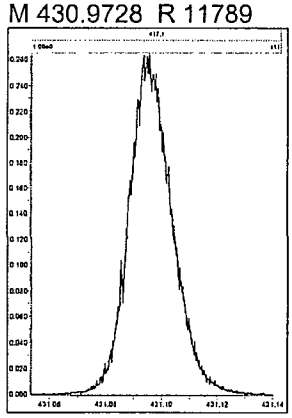
M 404.9760 R 11573



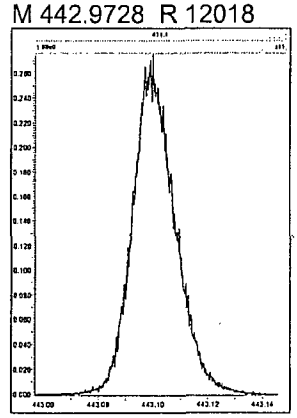
M 416.9760 R 11959



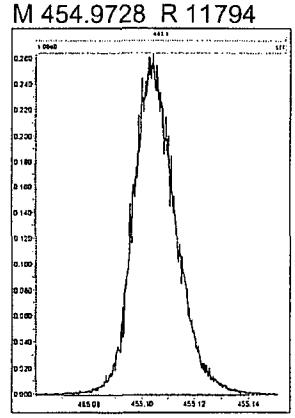
M 430.9728 R 11789



M 442.9728 R 12018



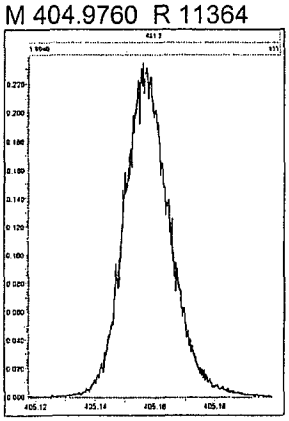
M 454.9728 R 11794



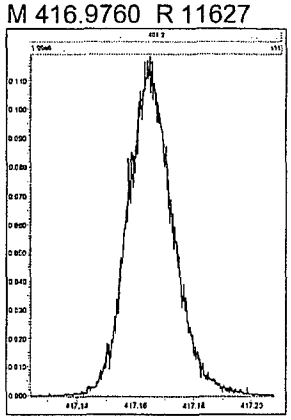
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, October 26, 2010 17:33:10 Eastern Standard Time

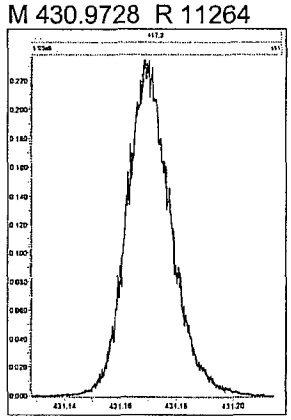
M 404.9760 R 11364



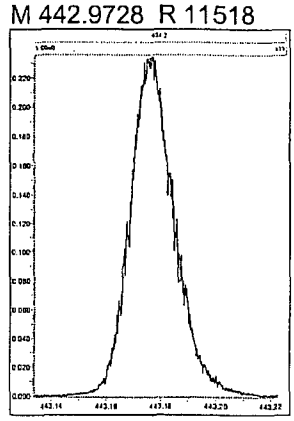
M 416.9760 R 11627



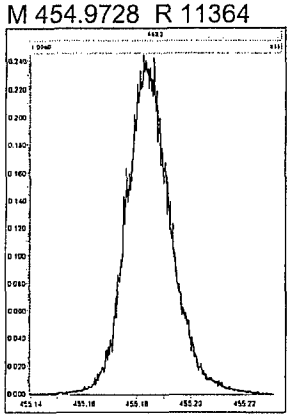
M 430.9728 R 11264



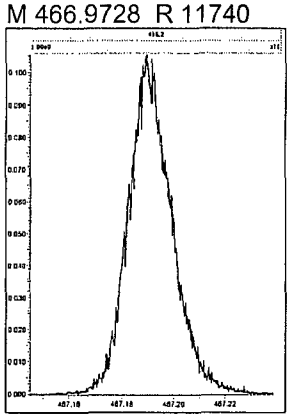
M 442.9728 R 11518



M 454.9728 R 11364



M 466.9728 R 11740



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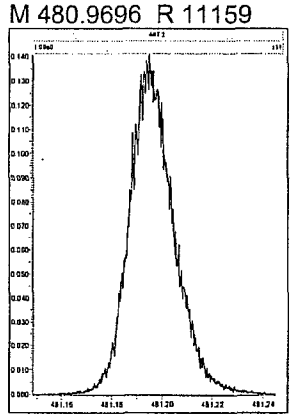

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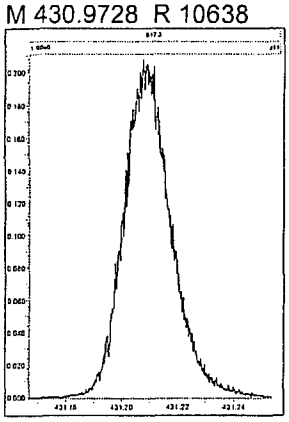

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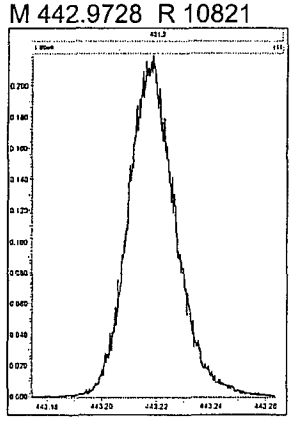

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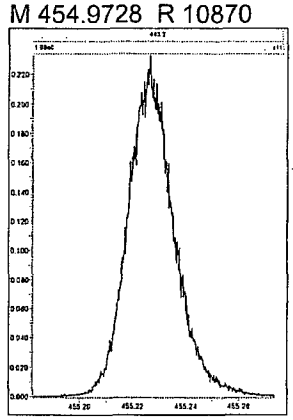

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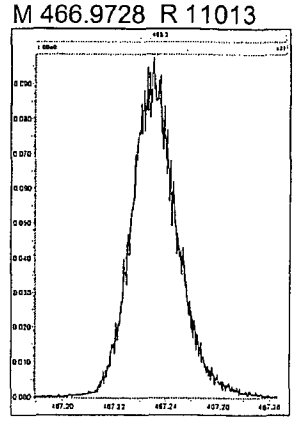

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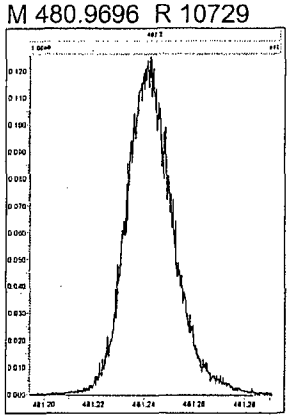

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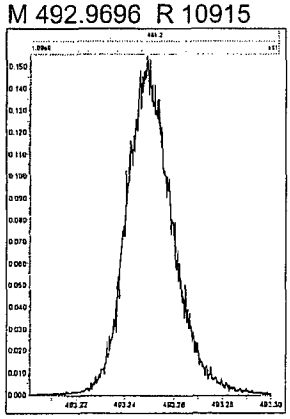
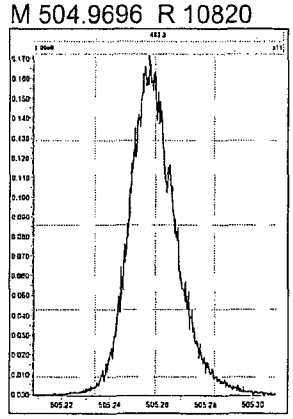
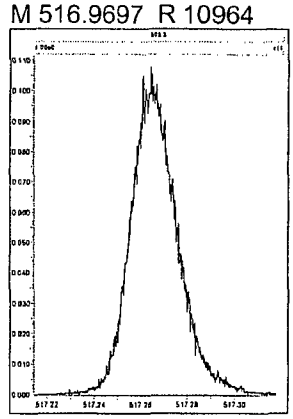


M 504.9696 R 10820



M 516.9697 R 10964



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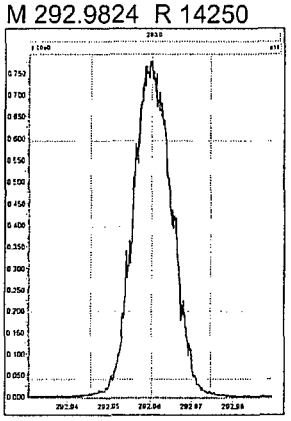
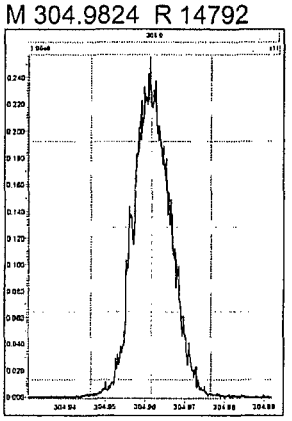
M 292.9824 R 14250



M 304.9824 R 14792



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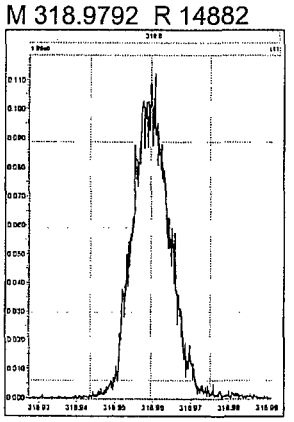
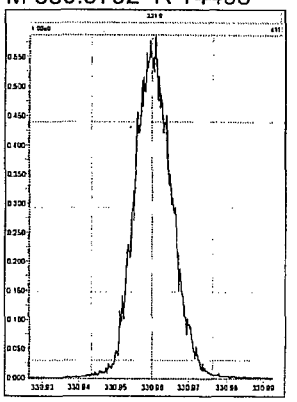


M 330.9792 R 14498 ✓



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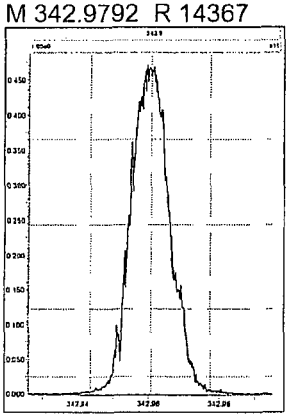
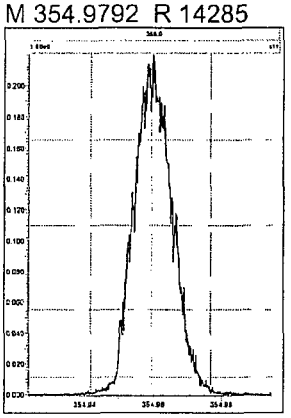
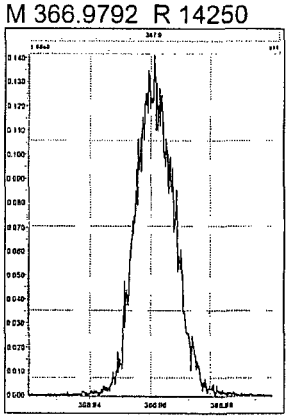


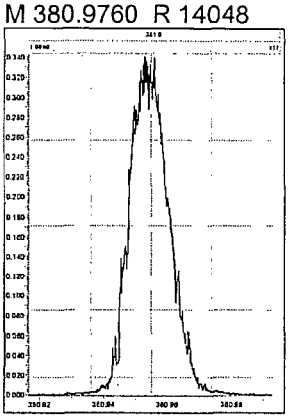
M 354.9792 R 14285



M 366.9792 R 14250



M 380.9760 R 14048



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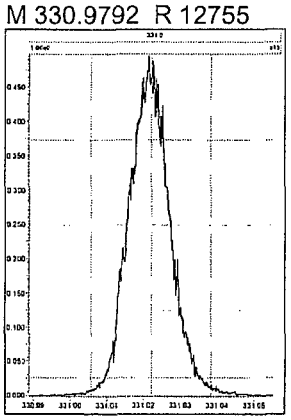
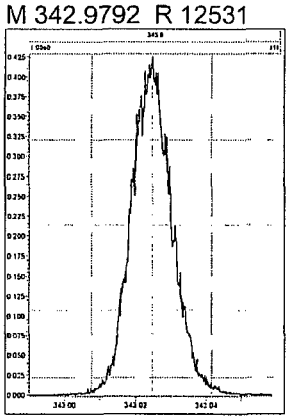


M 342.9792 R 12531



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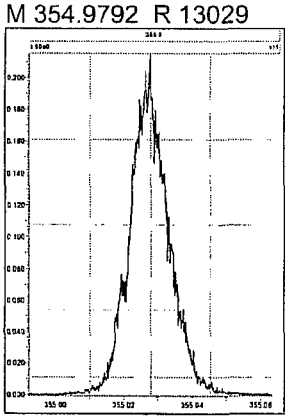

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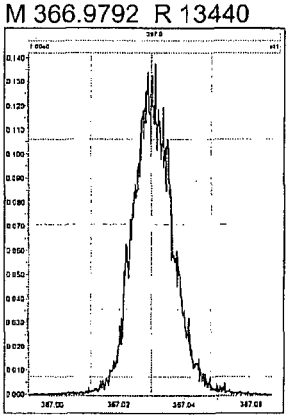

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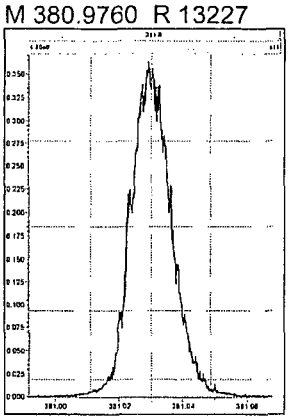

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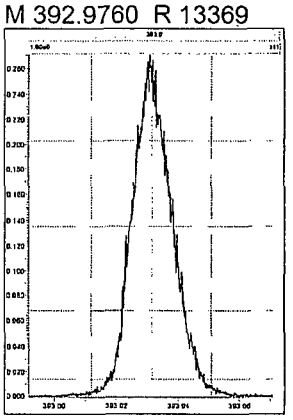
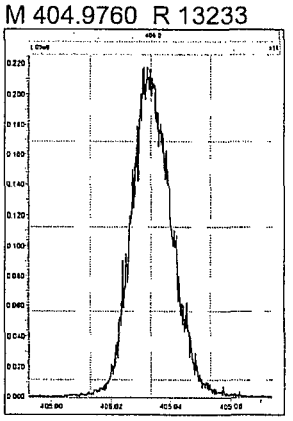
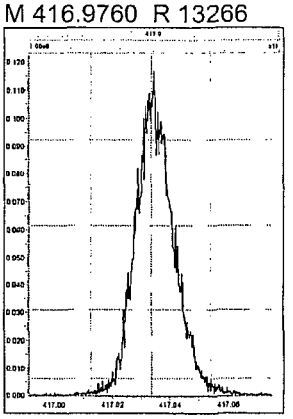


M 404.9760 R 13233



M 416.9760 R 13266



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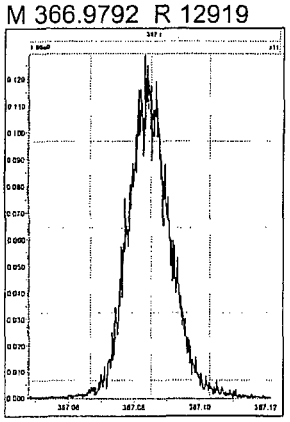
M 366.9792 R 12919



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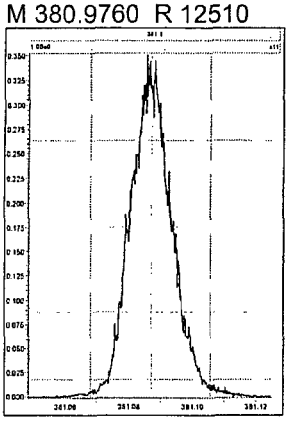

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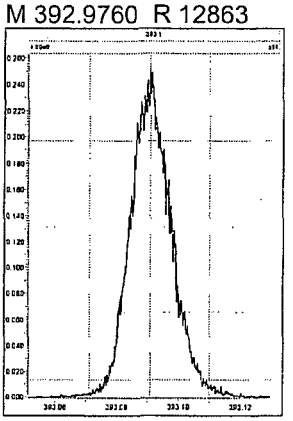

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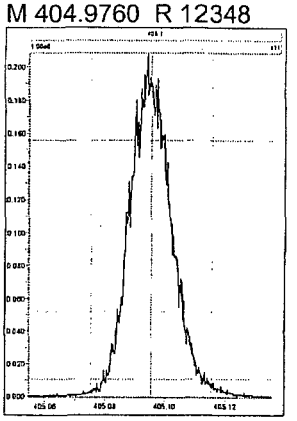

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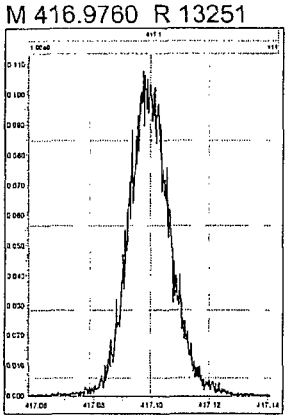

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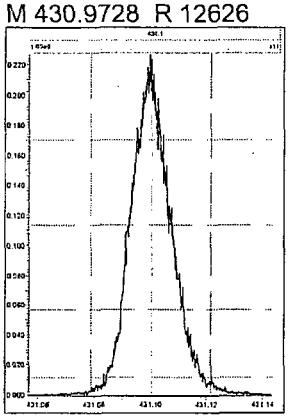
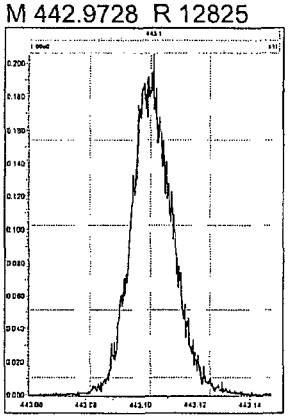
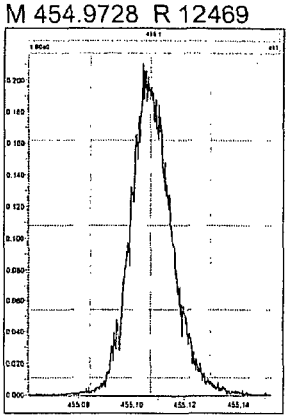


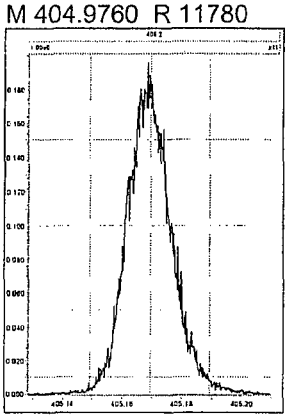
M 442.9728 R 12825



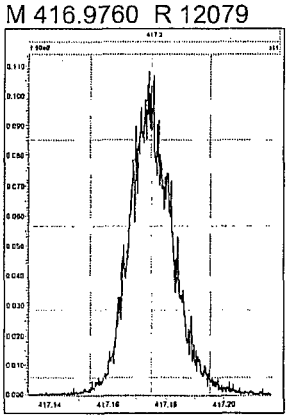
M 454.9728 R 12469



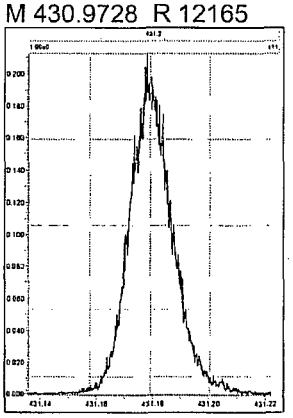
M 404.9760 R 11780



M 416.9760 R 12079



M 430.9728 R 12165



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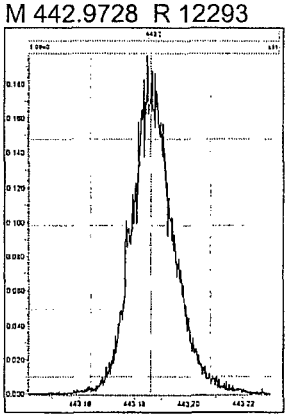
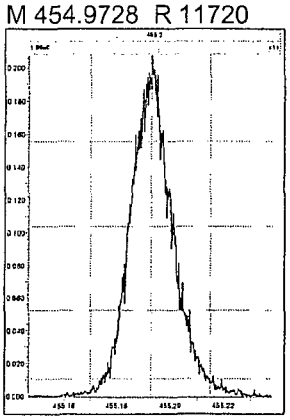


M 454.9728 R 11720



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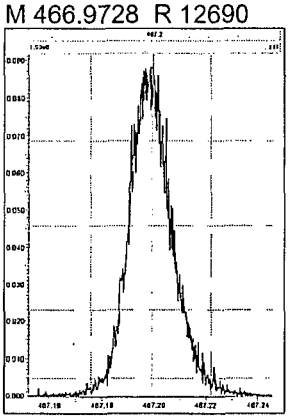
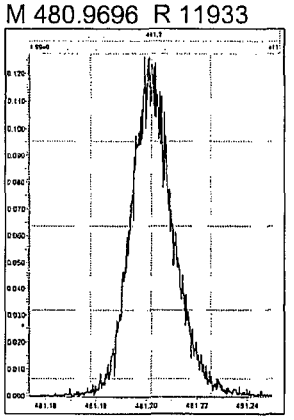
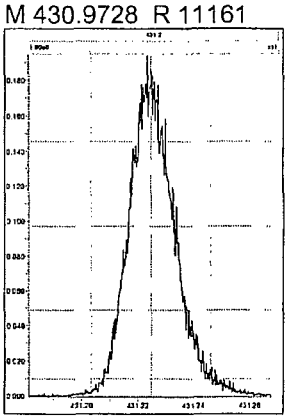


M 480.9696 R 11933



M 430.9728 R 11161



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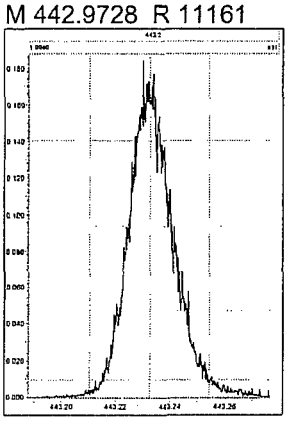
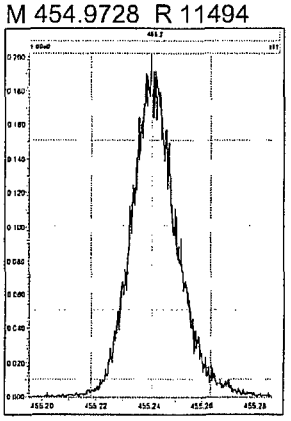
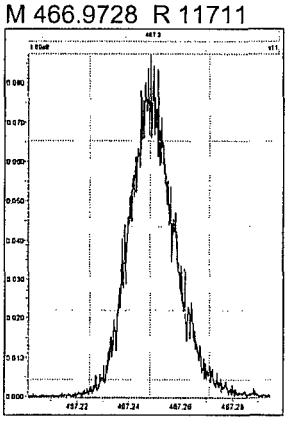
M 442.9728 R 11161



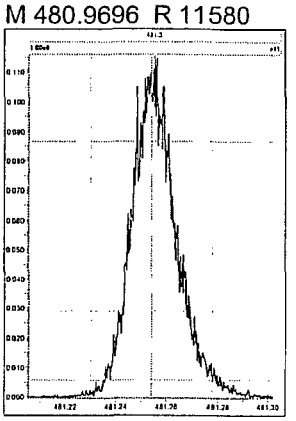
M 454.9728 R 11494



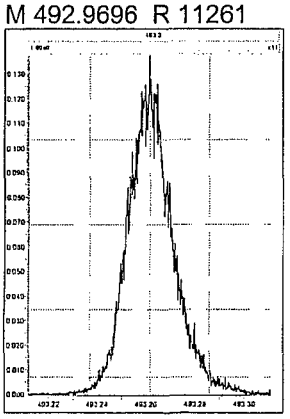
M 466.9728 R 11711



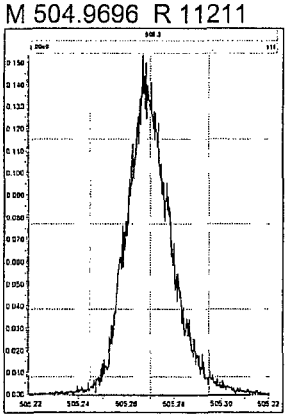
M 480.9696 R 11580



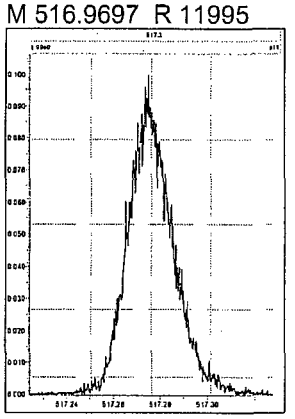
M 492.9696 R 11261



M 504.9696 R 11211



M 516.9697 R 11995



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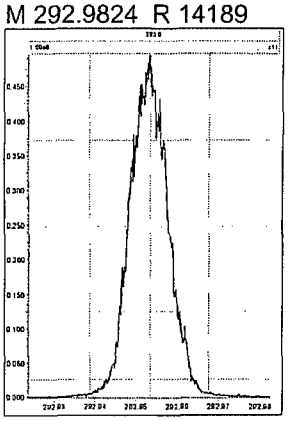
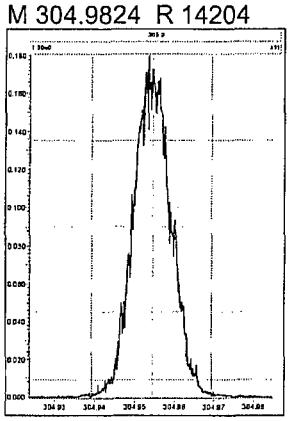
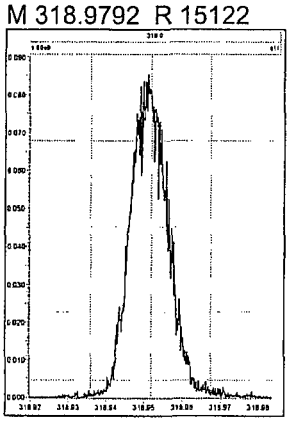
M 292.9824 R 14189



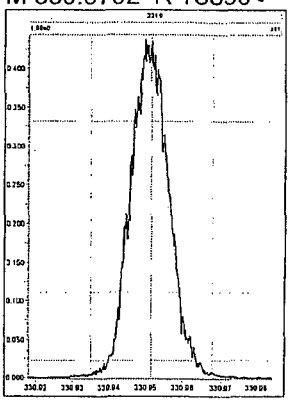
M 304.9824 R 14204



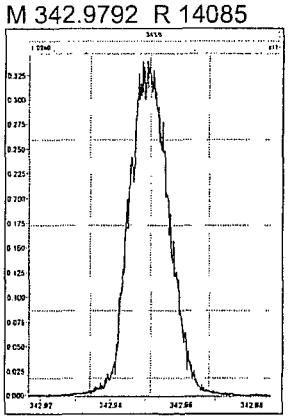
M 318.9792 R 15122



M 330.9792 R 13890 ✓



M 342.9792 R 14085



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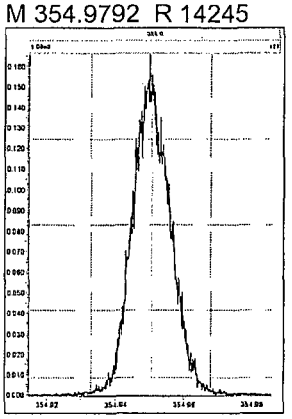

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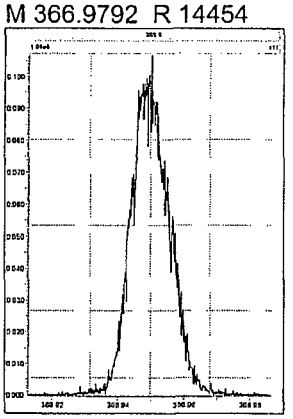
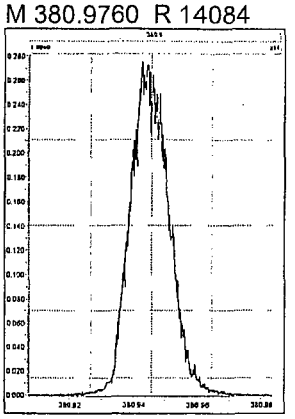
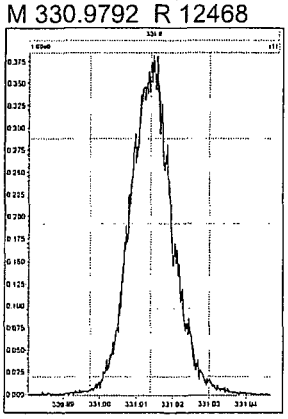


M 380.9760 R 14084



M 330.9792 R 12468



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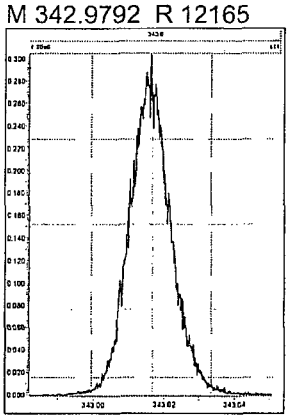
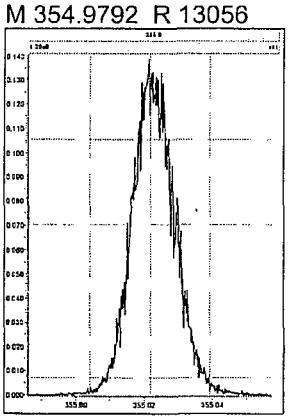


M 354.9792 R 13056



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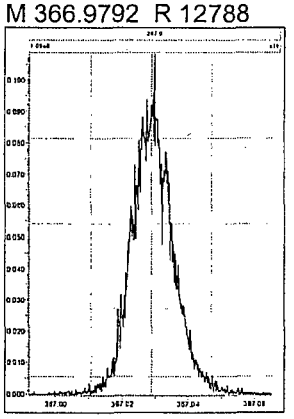
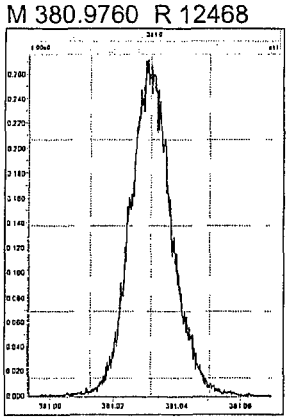


M 380.9760 R 12468



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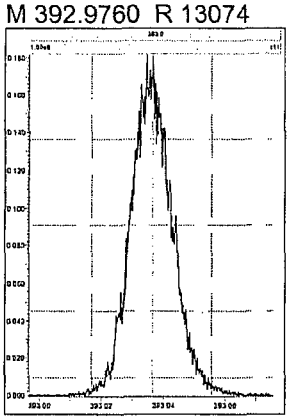

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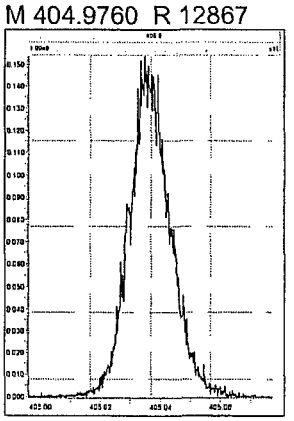

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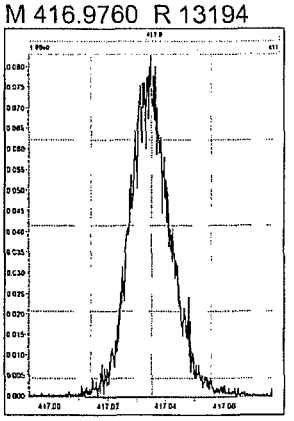

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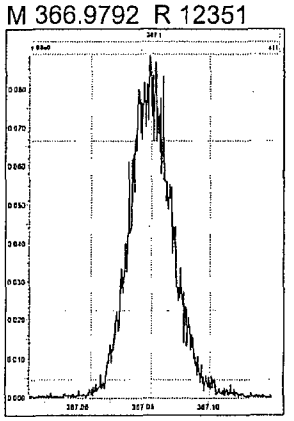
M 366.9792 R 12351



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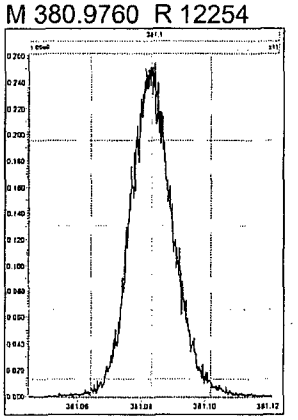

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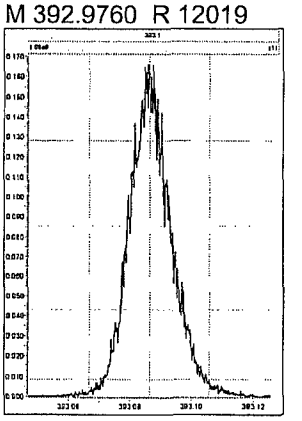

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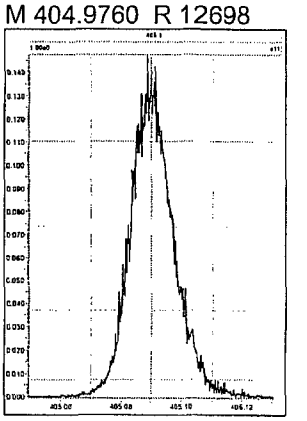

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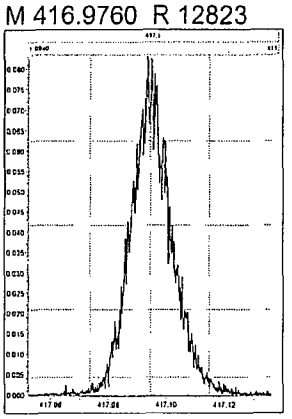
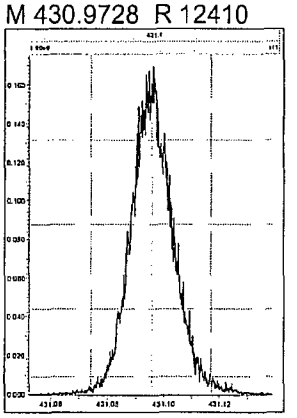
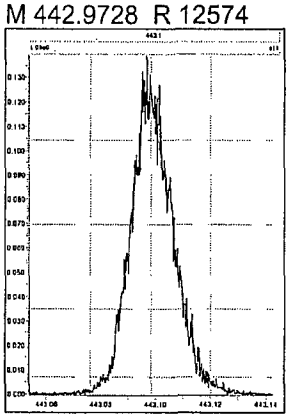


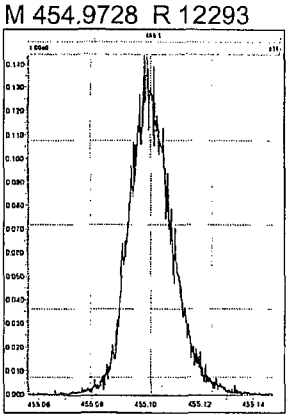
M 430.9728 R 12410



M 442.9728 R 12574



M 454.9728 R 12293



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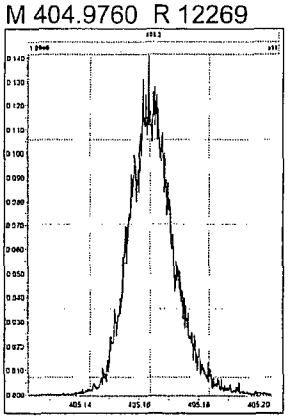

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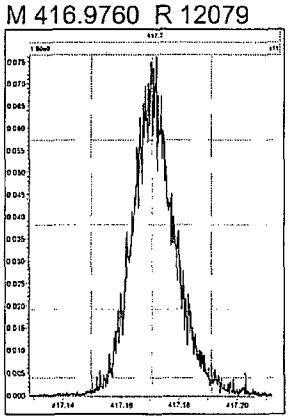

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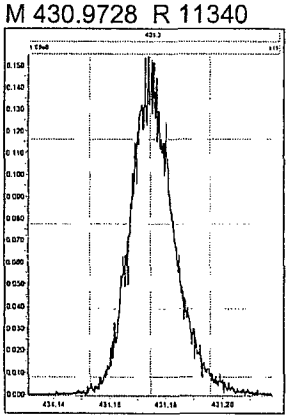

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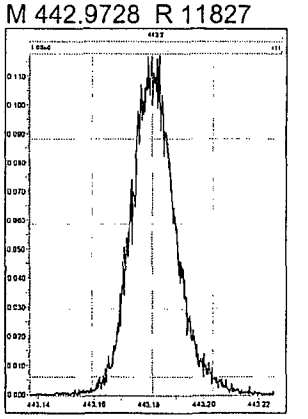

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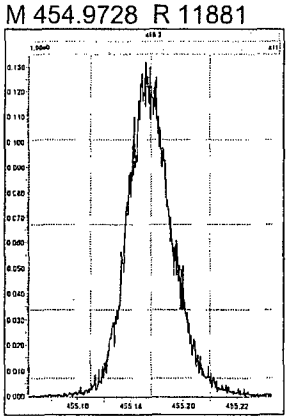

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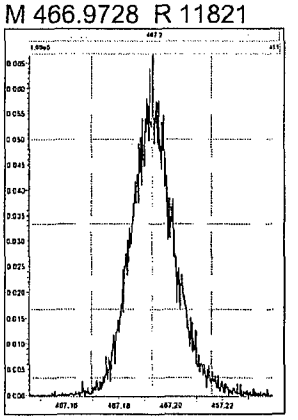

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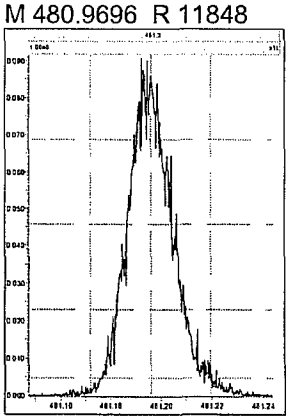

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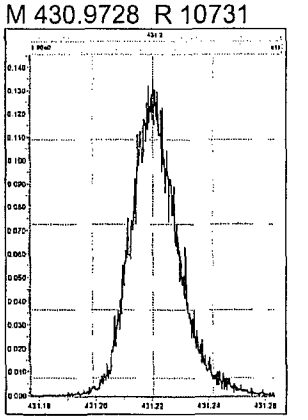

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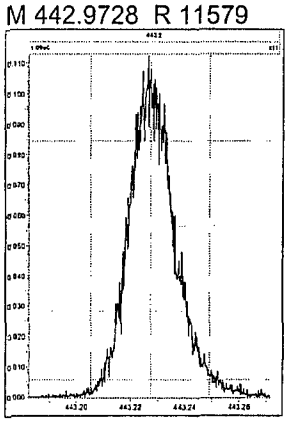
M 442.9728 R 11579



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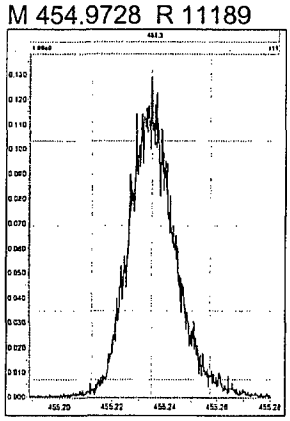

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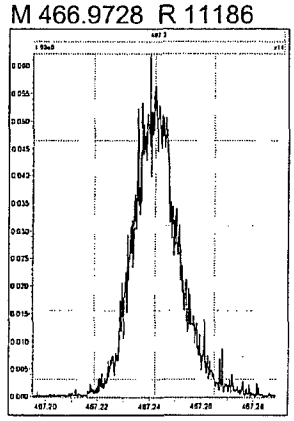

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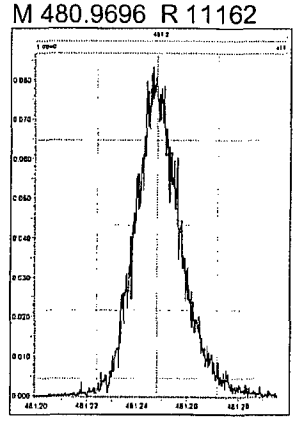

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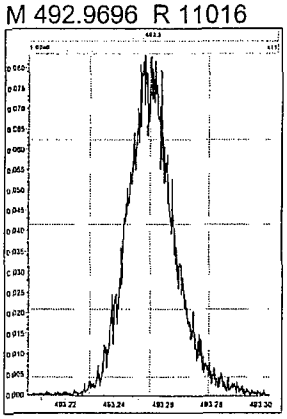

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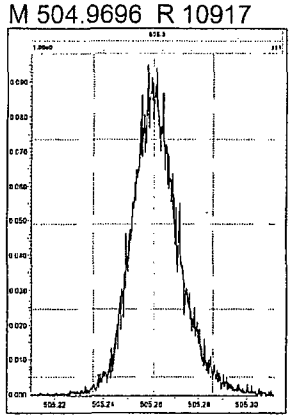

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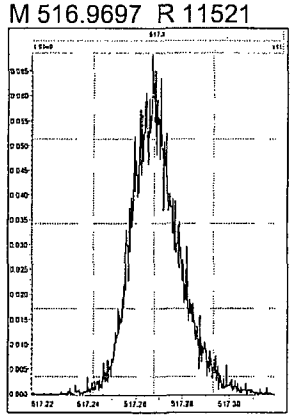

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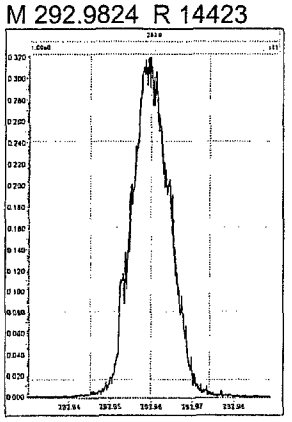

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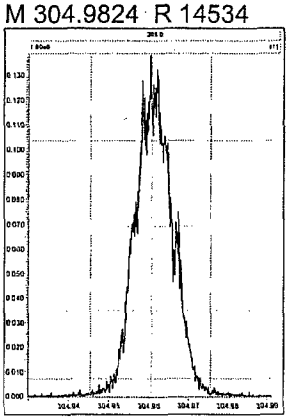

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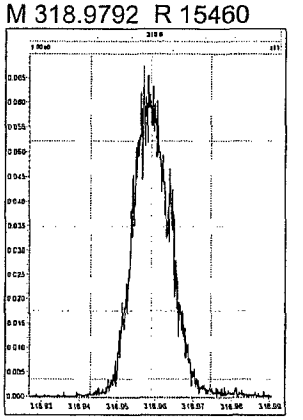
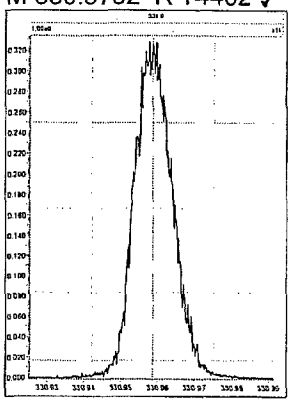


M 330.9792 R 14462 ✓



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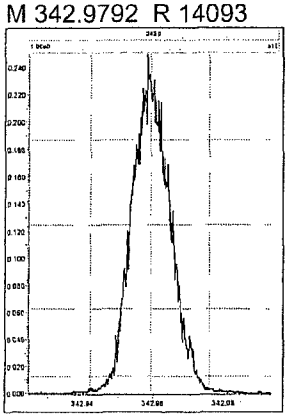

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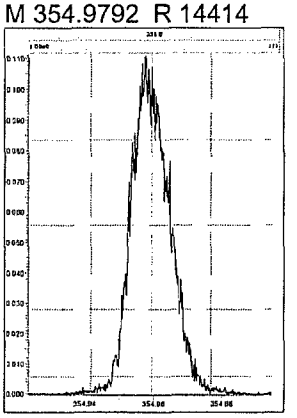

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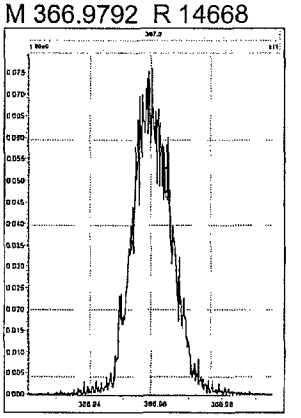
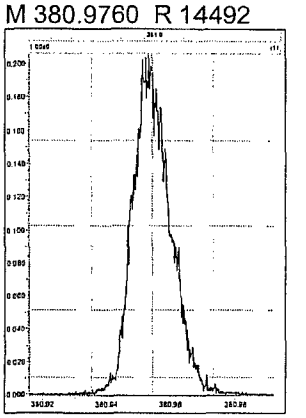


M 380.9760 R 14492



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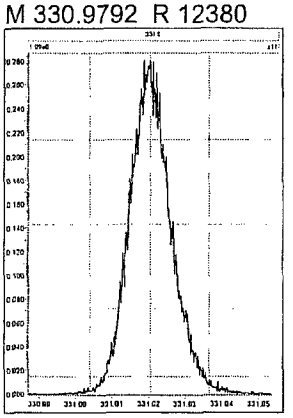

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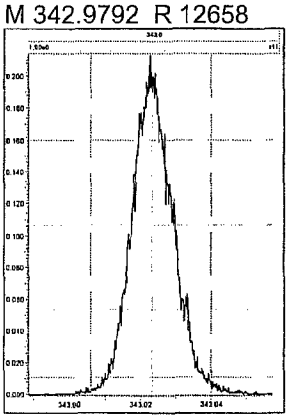

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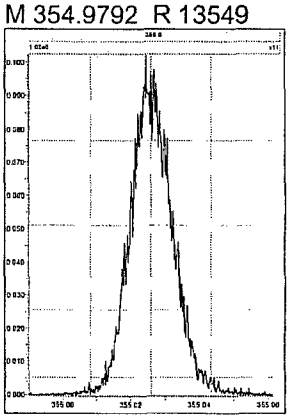

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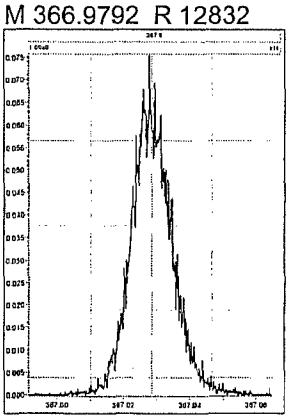

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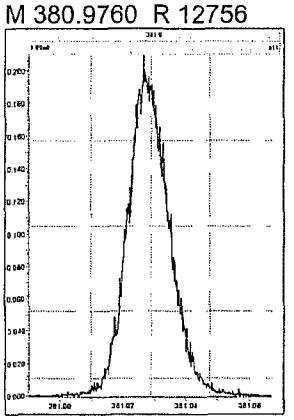

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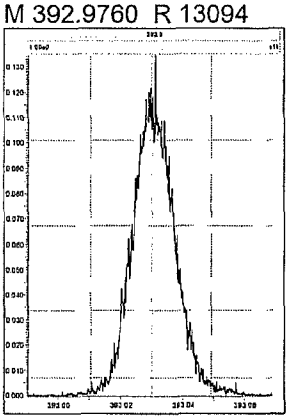

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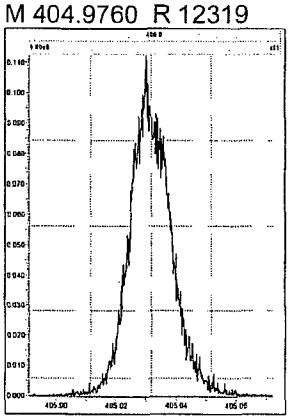

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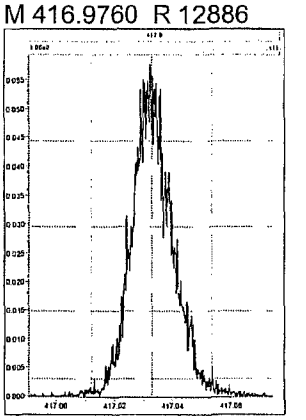

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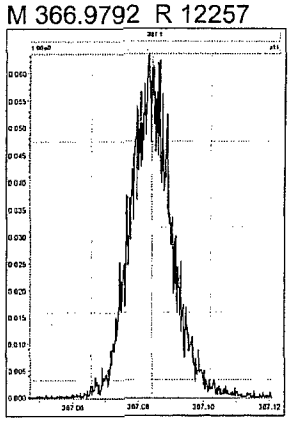
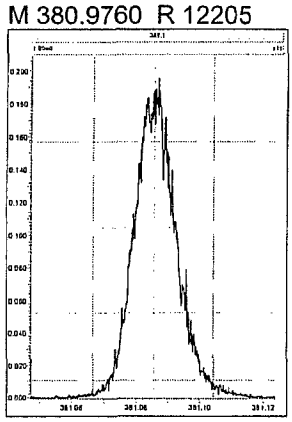


M 380.9760 R 12205



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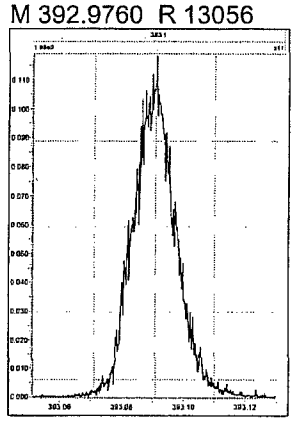

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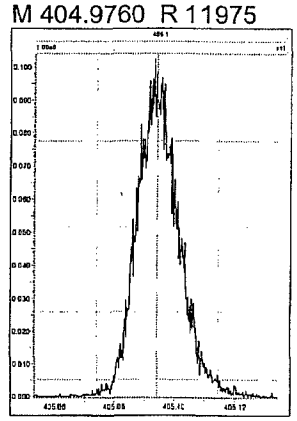

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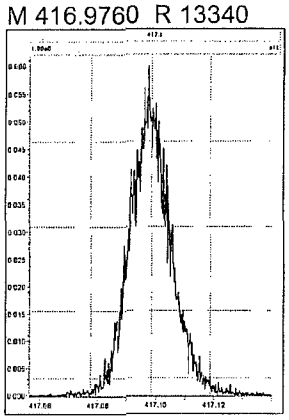

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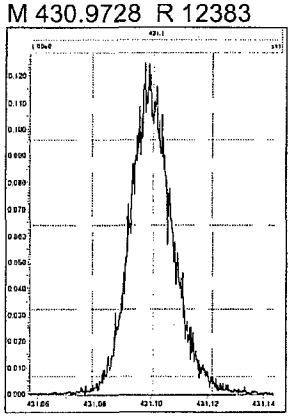

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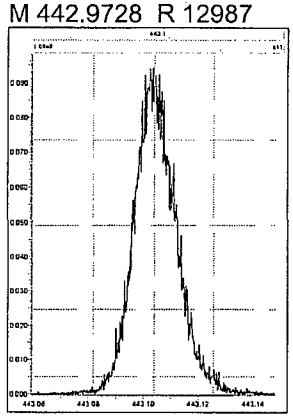

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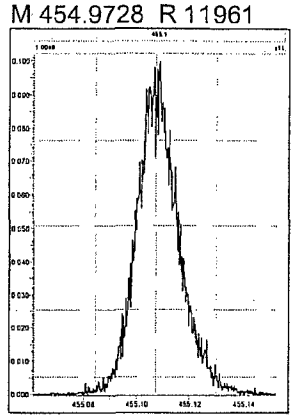

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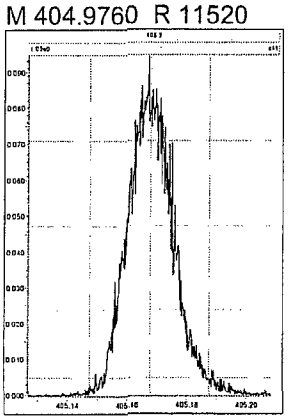

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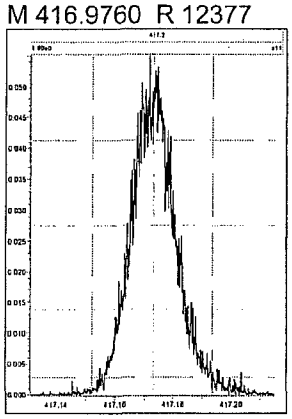

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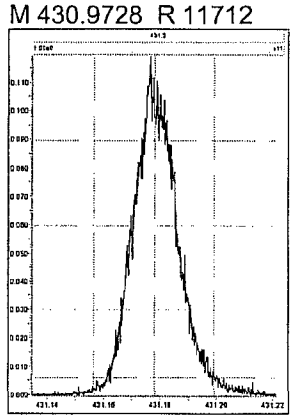
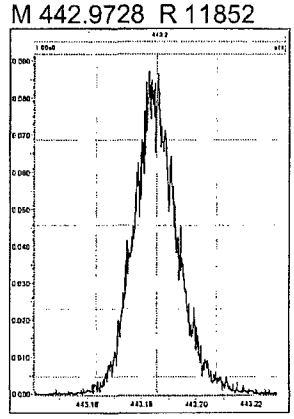
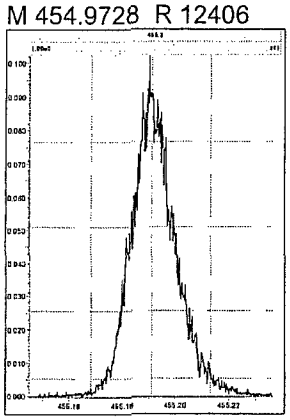


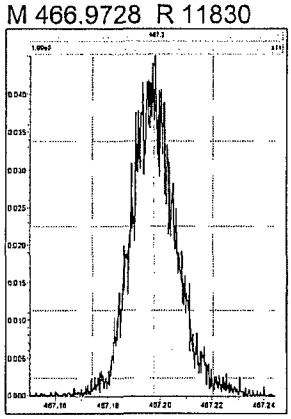
M 442.9728 R 11852



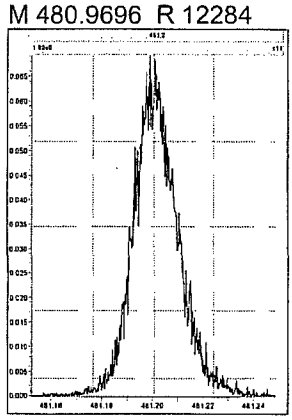
M 454.9728 R 12406



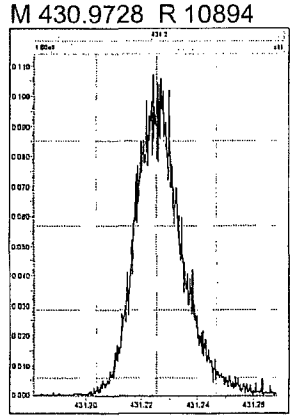
M 466.9728 R 11830



M 480.9696 R 12284



M 430.9728 R 10894



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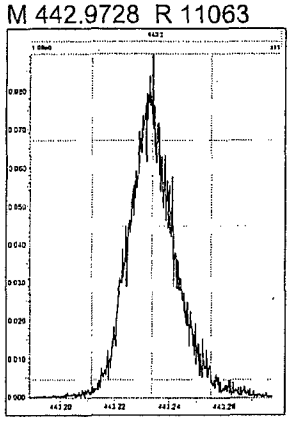
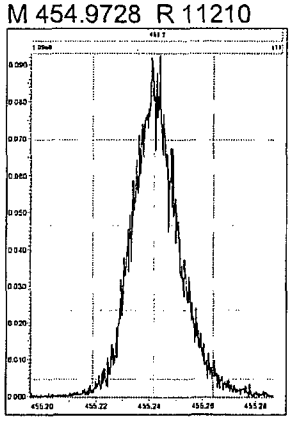
M 442.9728 R 11063



M 454.9728 R 11210



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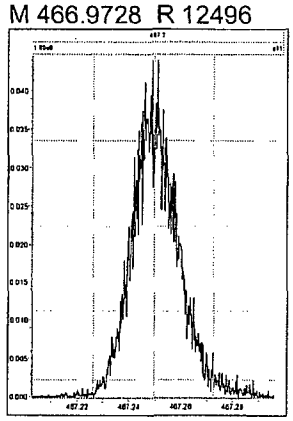
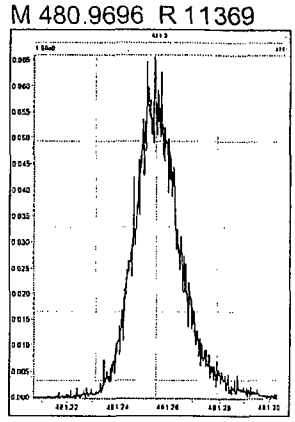
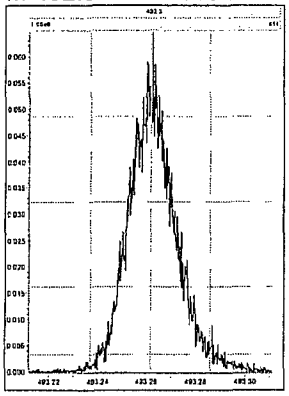


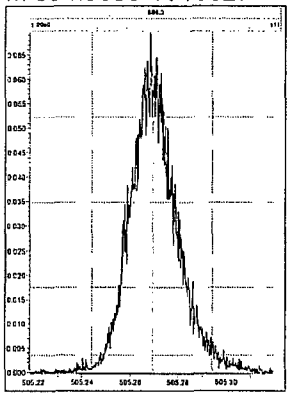
M 480.9696 R 11369



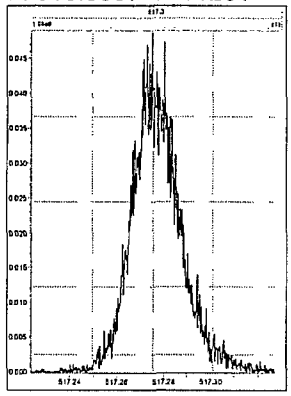
M 492.9696 R 11049



M 504.9696 R 10827



M 516.9697 R 11261



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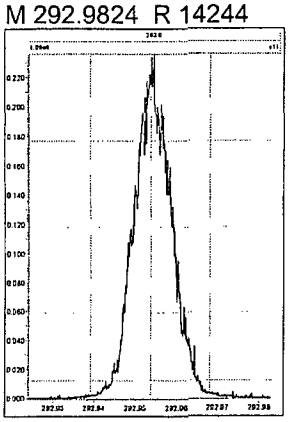
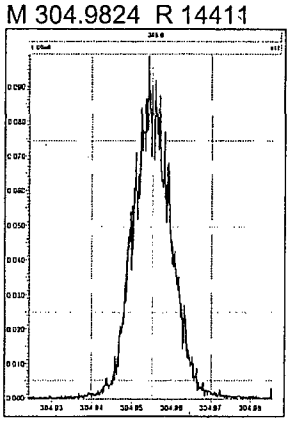
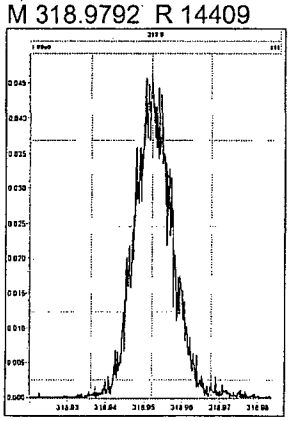
M 292.9824 R 14244



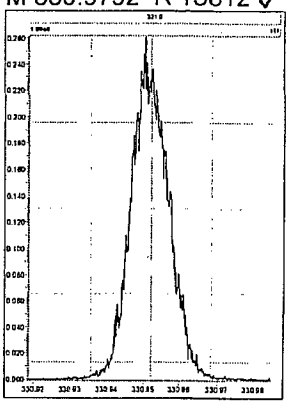
M 304.9824 R 14411



M 318.9792 R 14409



M 330.9792 R 13812 ✓



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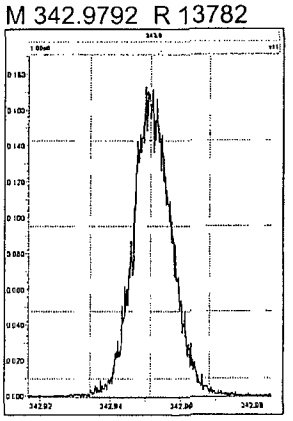
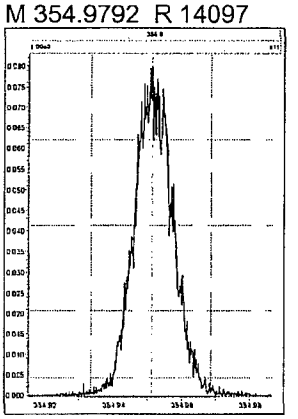


M 354.9792 R 14097



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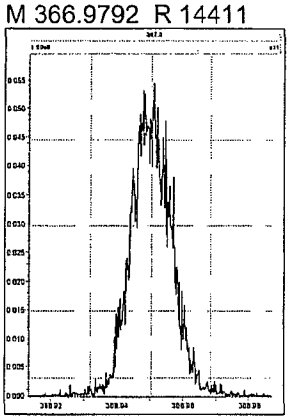
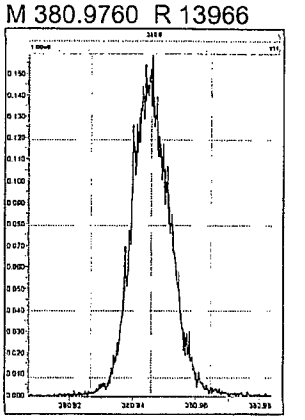


M 380.9760 R 13966



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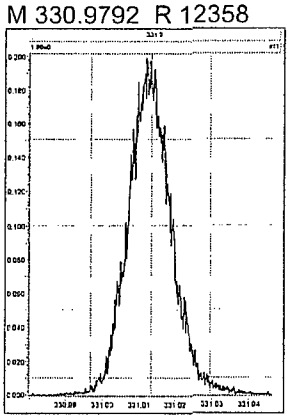

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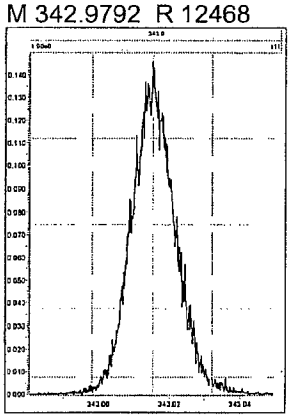

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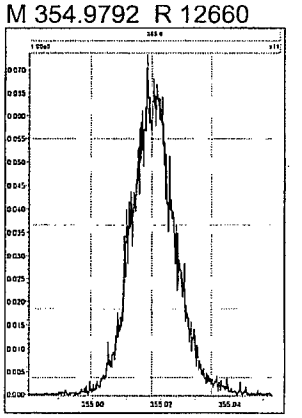

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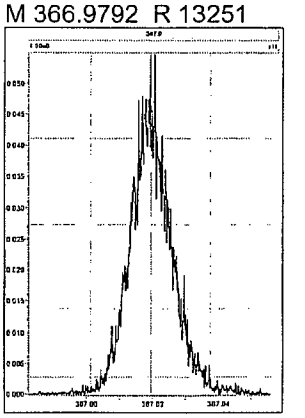
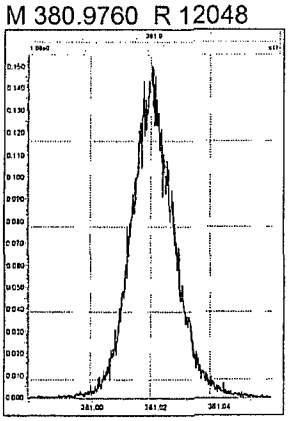
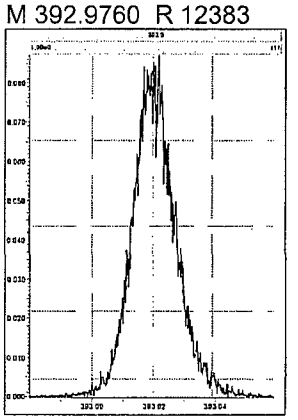


M 380.9760 R 12048



M 392.9760 R 12383



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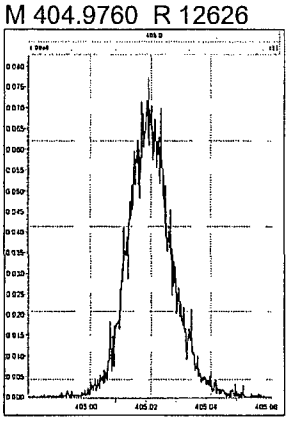
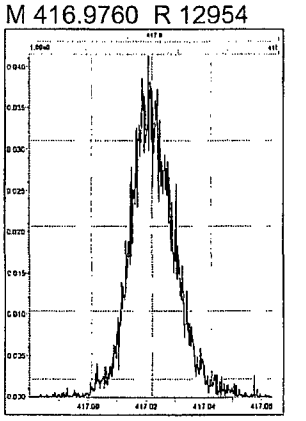


M 416.9760 R 12954



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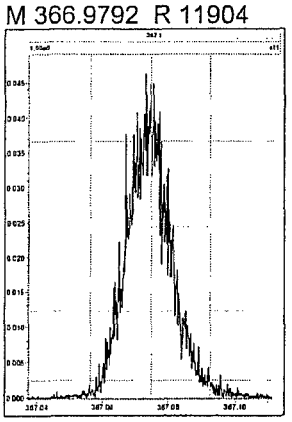
M 366.9792 R 11904



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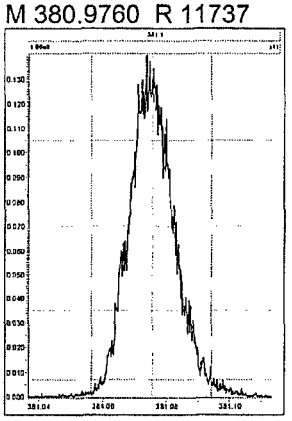

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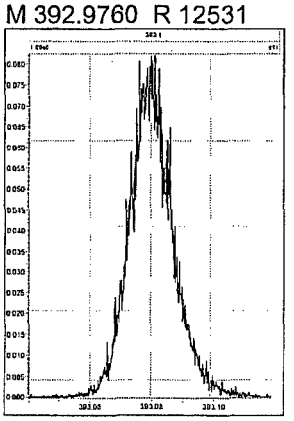

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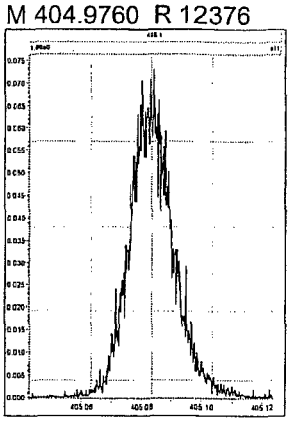
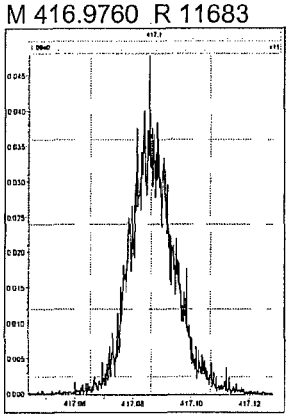
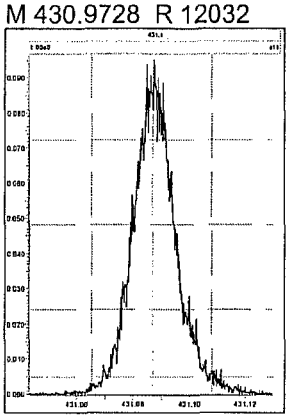


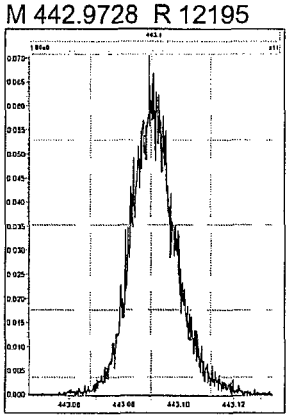
M 416.9760 R 11683



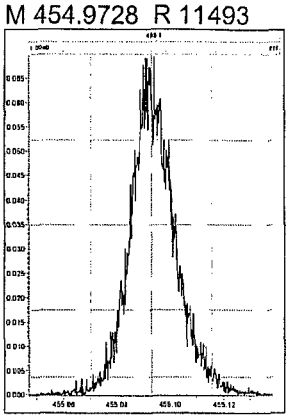
M 430.9728 R 12032



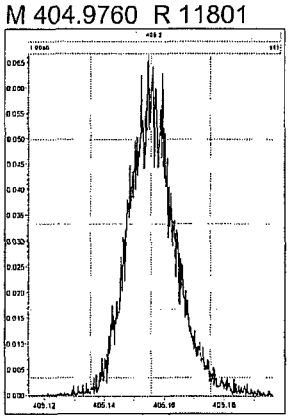
M 442.9728 R 12195



M 454.9728 R 11493



M 404.9760 R 11801



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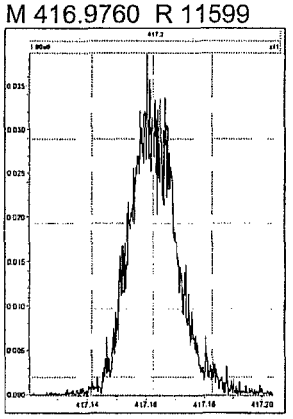
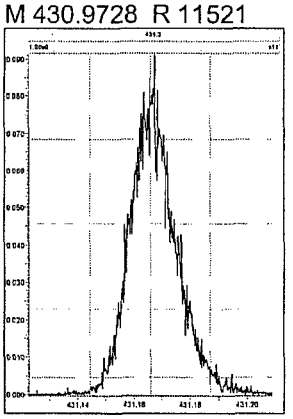
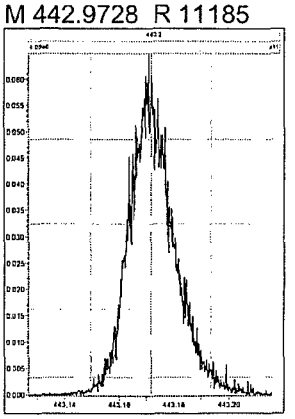


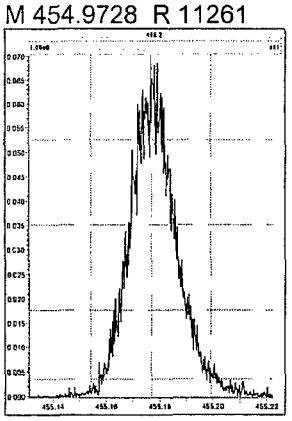
M 430.9728 R 11521



M 442.9728 R 11185



M 454.9728 R 11261



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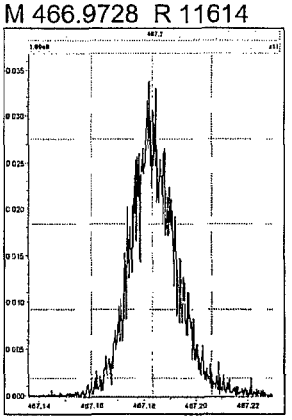

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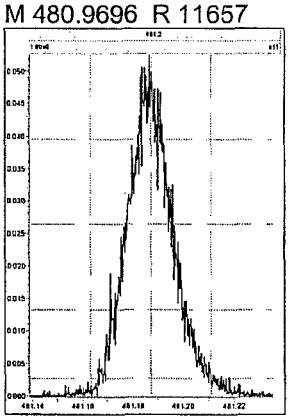

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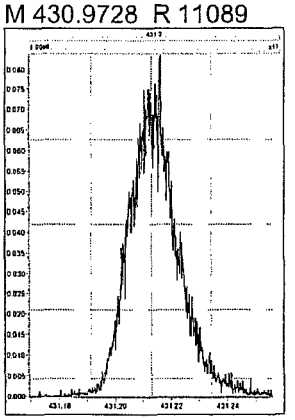

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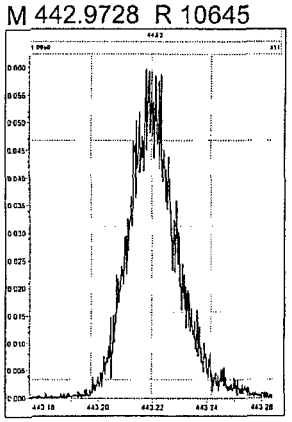
M 442.9728 R 10645



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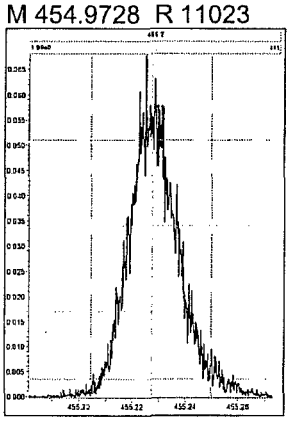

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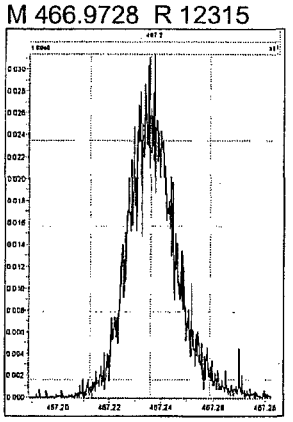

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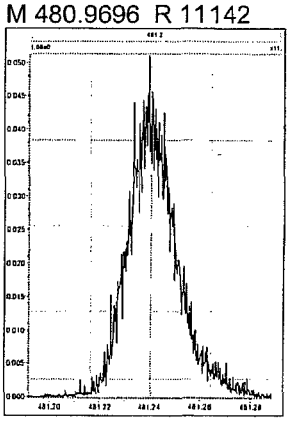

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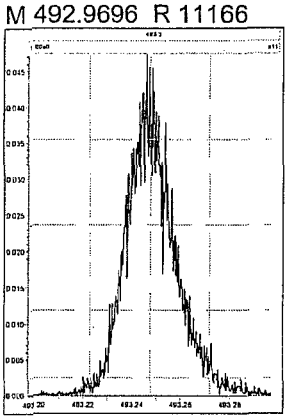
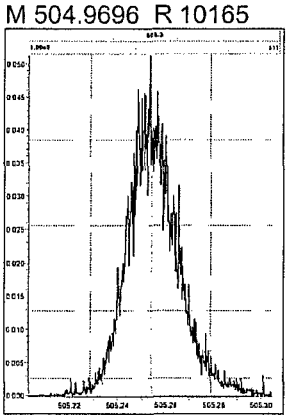
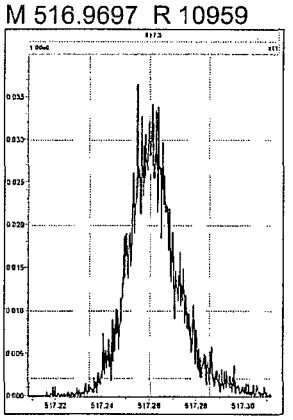


M 504.9696 R 10165

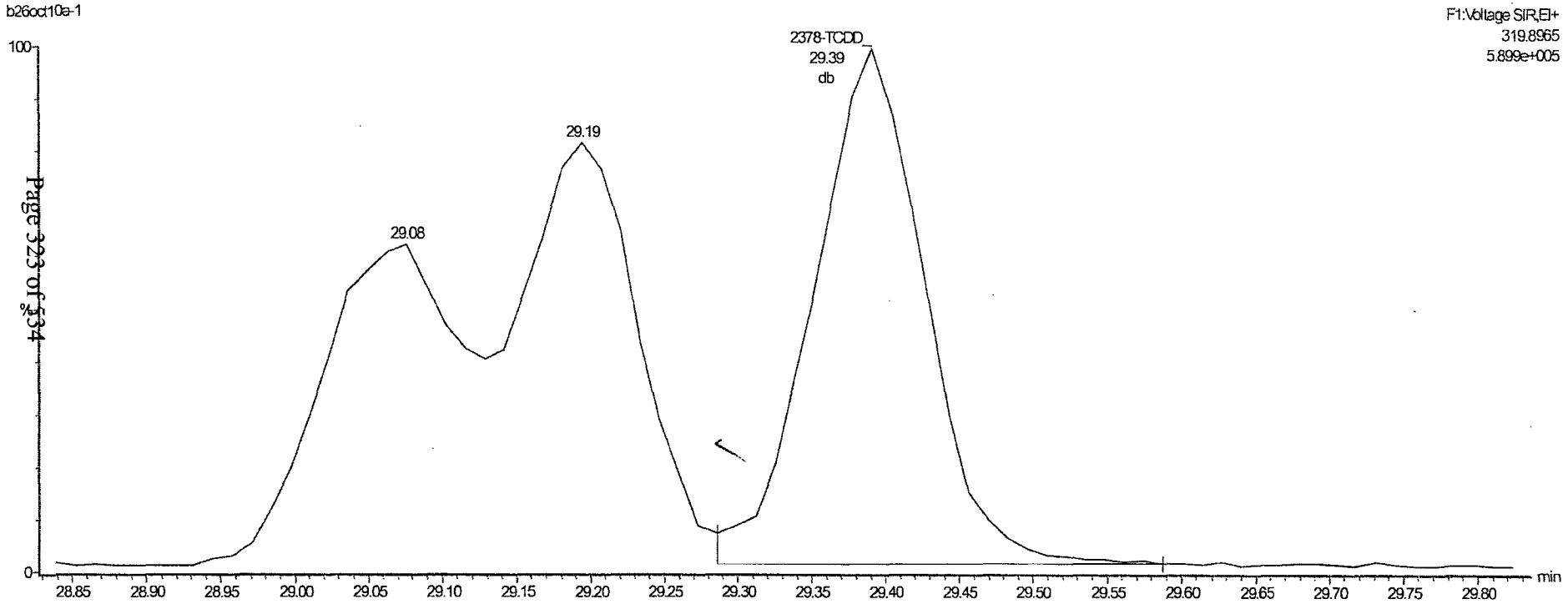


M 516.9697 R 10959



COLUMN PERFORMANCE CHECK (2378-TCDD 8%)

b26oct10a-1



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-1.qld

Last Altered: Wednesday, October 27, 2010 09:44:22 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:47:05 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b02oct10a.cdb 03 Oct 2010 13:55:41

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	24.25
2	Last TCDF	30.58
3	First PeCDF	30.58
4	Last PeCDF	33.57
5	First HxCDF	34.05
6	Last HxCDF	36.13
7	First HpCDF	37.44
8	Last HpCDF	39.11
9	OCDF	42.46
10	First TCDD	25.94
11	2378-TCDD	29.39
12	Last TCDD	30.45
13	First PeCDD	31.90
14	Last PeCDD	33.42
15	First HxCDD	34.44
16	Last HxCDD	35.85
17	First HpCDD	37.74
18	Last HpCDD	38.55
19	OCDD	42.20

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

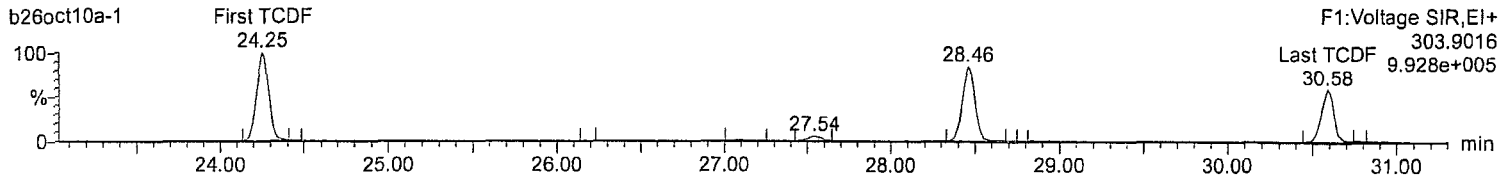
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-1.qld

Last Altered: Wednesday, October 27, 2010 09:44:22 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:47:05 Eastern Standard Time

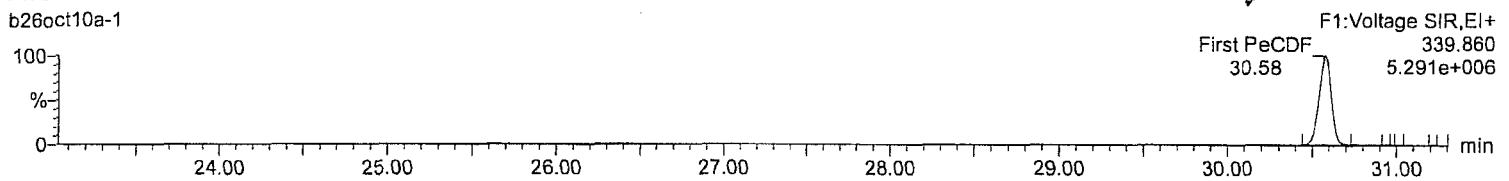
Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b02oct10a.cdb 03 Oct 2010 13:55:41

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

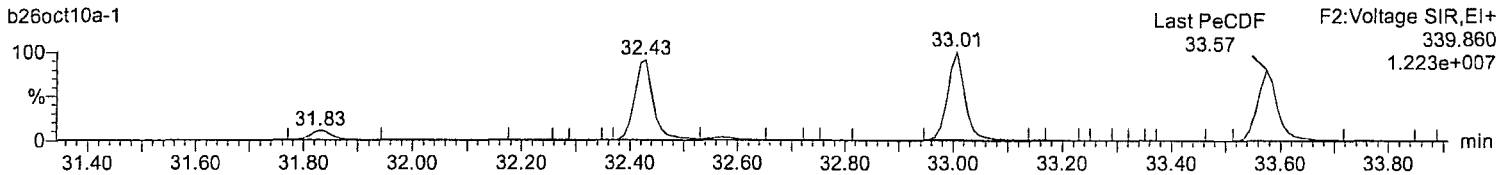
First TCDF



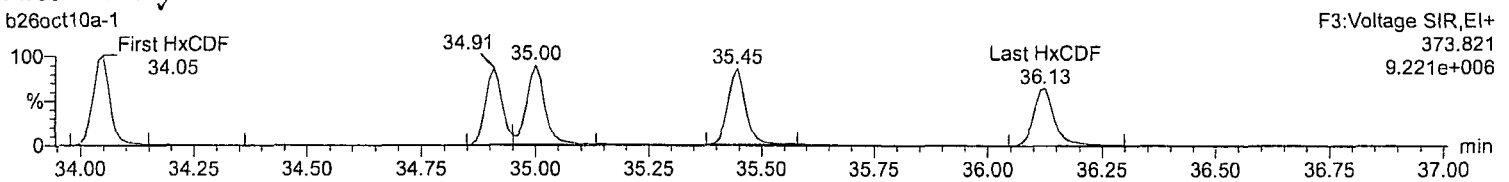
First PeCDF



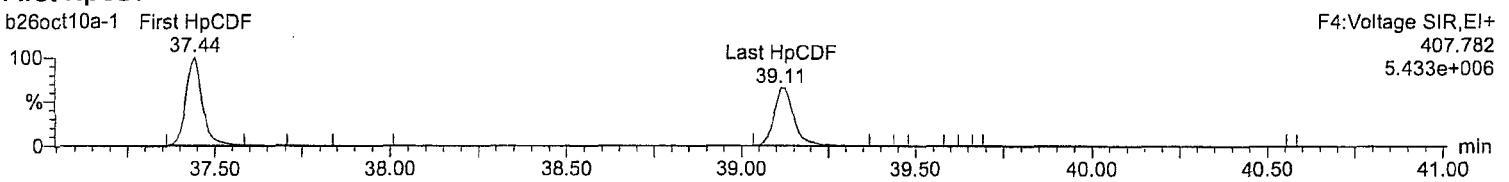
Last PeCDF



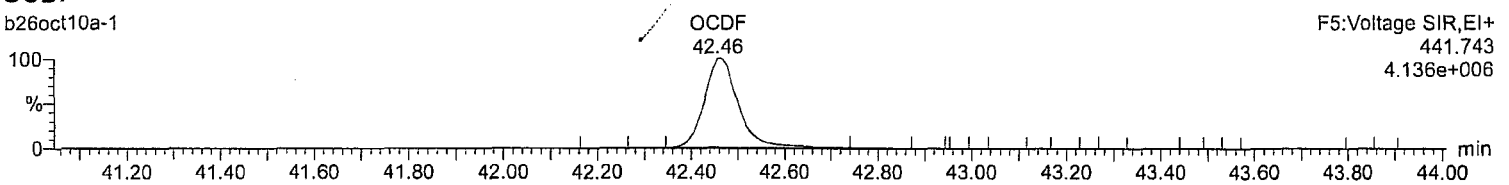
First HxCDF



First HpCDF



OCDF



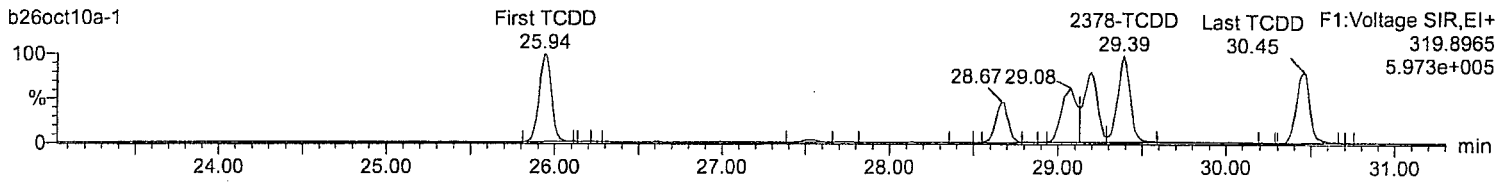
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-1.qld

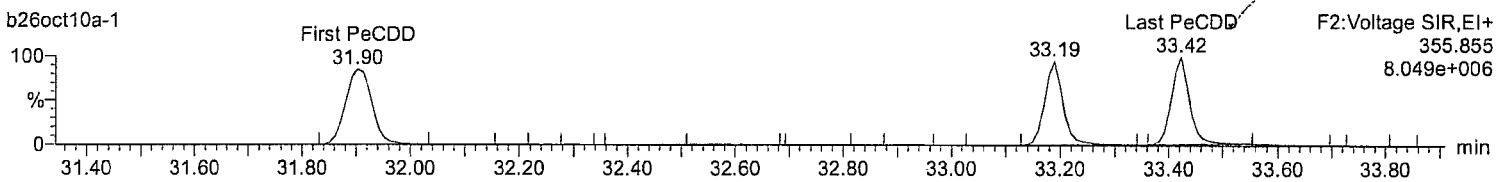
Last Altered: Wednesday, October 27, 2010 09:44:22 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:47:05 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

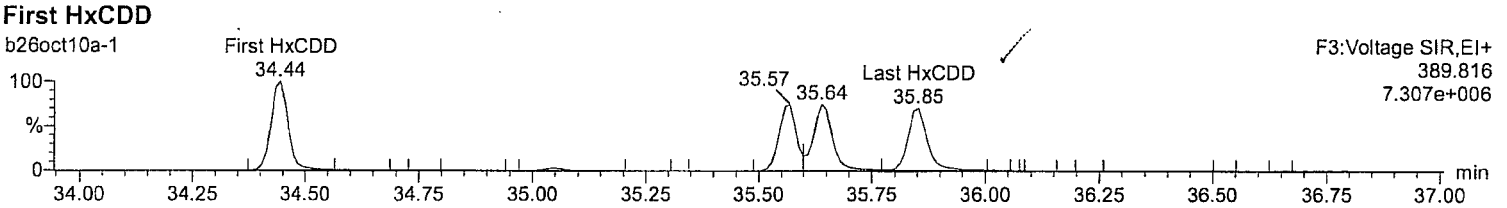
First TCDD



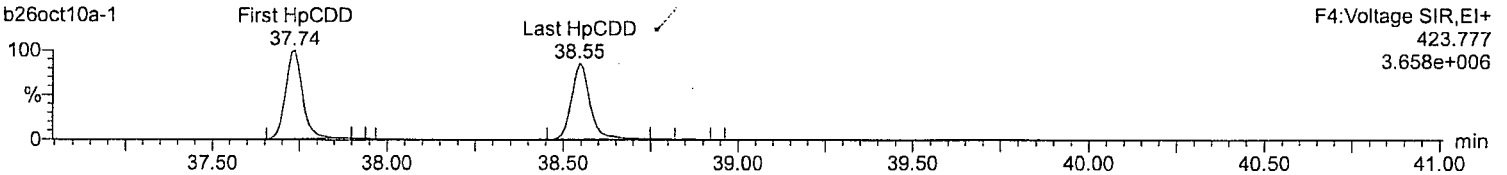
First PeCDD



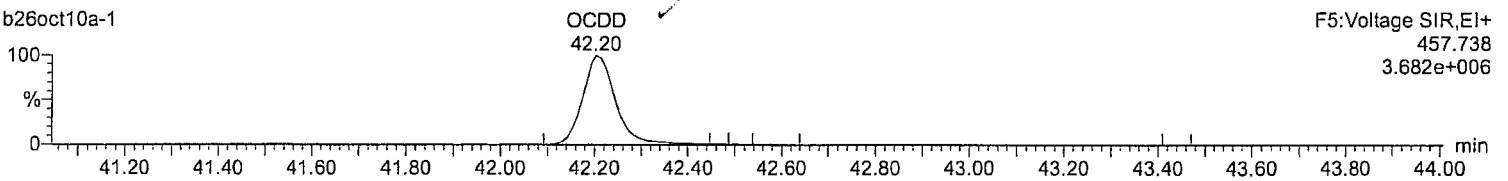
First HxCDD



First HpCDD



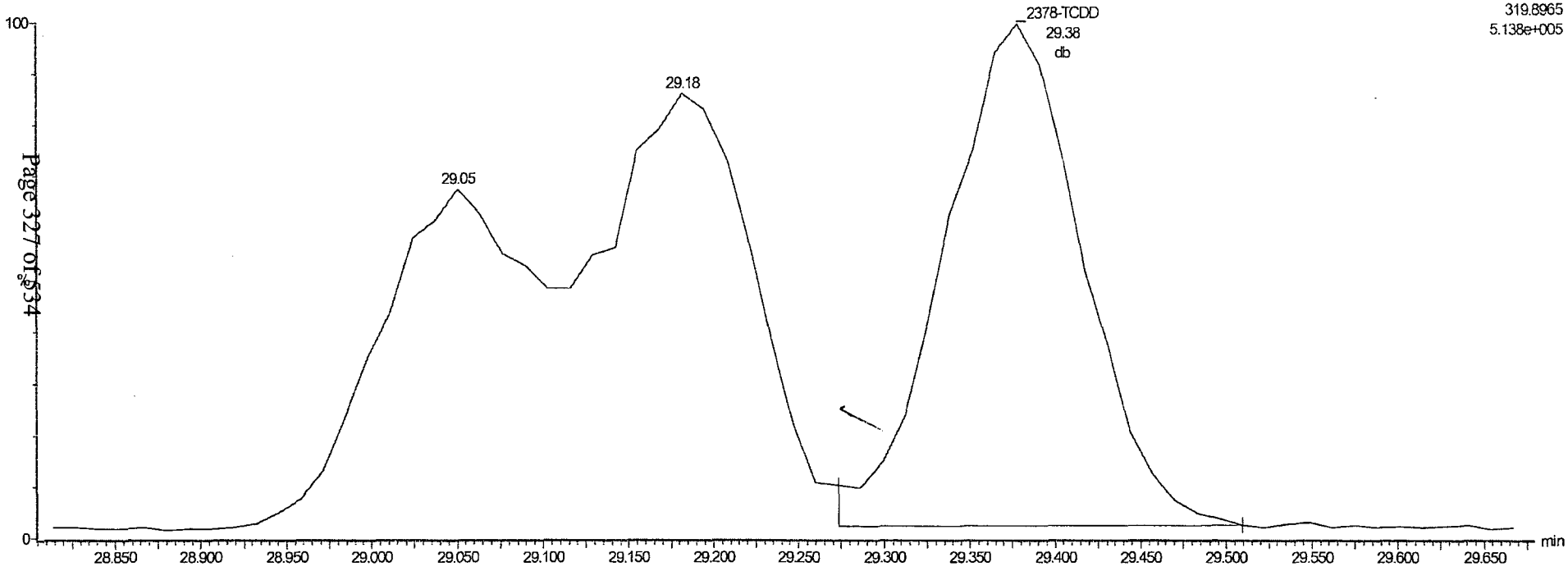
OCDD



COLUMN PERFORMANCE CHECK (2378-TCDD 8%)

b26ocd10a-15

F1:Voltage SIR,EI+
319.8965
5.138e+005



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-15.qld

Last Altered: Wednesday, October 27, 2010 09:47:27 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:48:15 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b02oct10a.cdb 03 Oct 2010 13:55:41

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	24.24
2	Last TCDF	30.58
3	First PeCDF	30.56
4	Last PeCDF	33.57
5	First HxCDF	34.05
6	Last HxCDF	36.12
7	First HpCDF	37.44
8	Last HpCDF	39.11
9	OCDF	42.46
10	First TCDD	25.93
11	2378-TCDD	29.38
12	Last TCDD	30.44
13	First PeCDD	31.90
14	Last PeCDD	33.42
15	First HxCDD	34.44
16	Last HxCDD	35.85
17	First HpCDD	37.74
18	Last HpCDD	38.55
19	OCDD	42.21

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

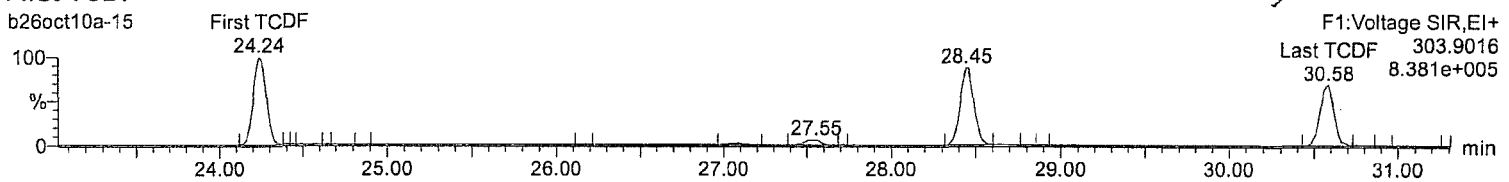
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-15.qld

Last Altered: Wednesday, October 27, 2010 09:47:27 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:48:15 Eastern Standard Time

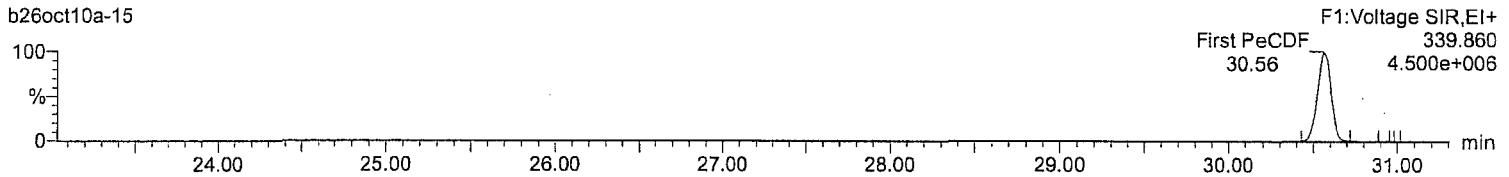
Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b02oct10a.cdb 03 Oct 2010 13:55:41

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

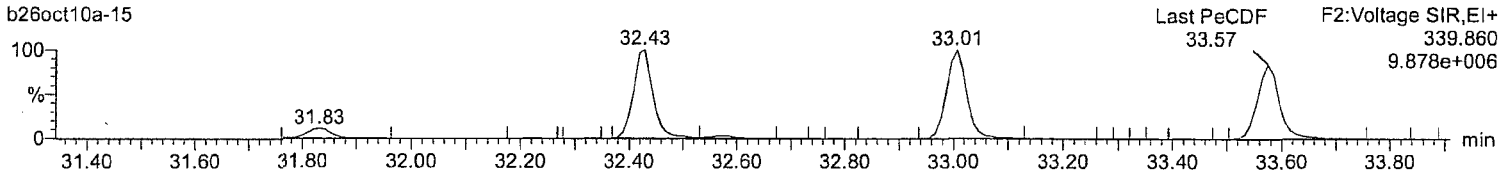
First TCDF



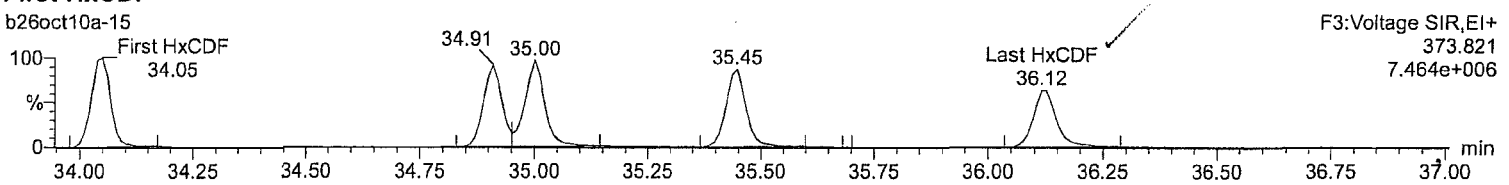
First PeCDF



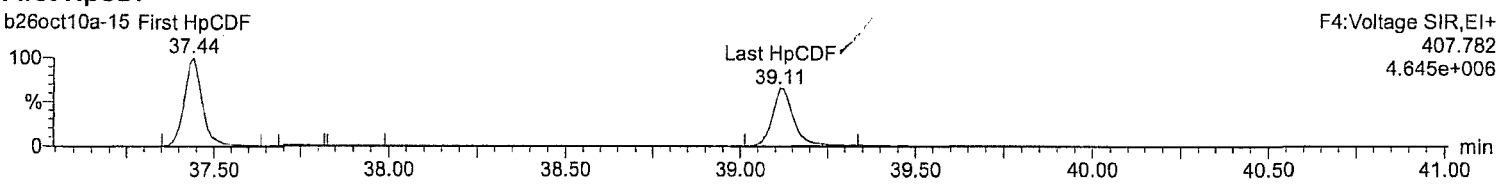
Last PeCDF



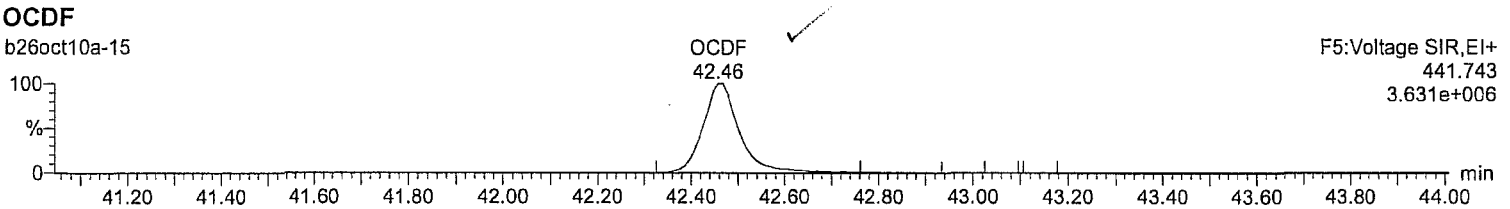
First HxCDF



First HpCDF



OCDF



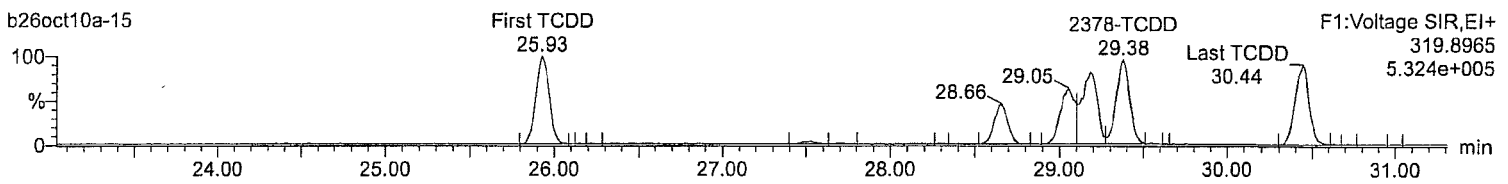
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a-15.qld

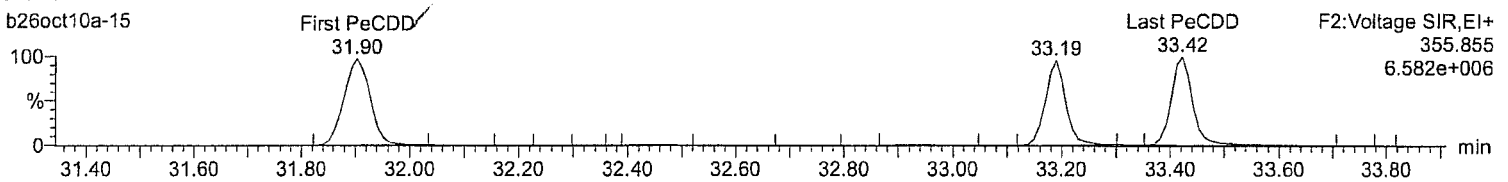
Last Altered: Wednesday, October 27, 2010 09:47:27 Eastern Standard Time
Printed: Wednesday, October 27, 2010 09:48:15 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

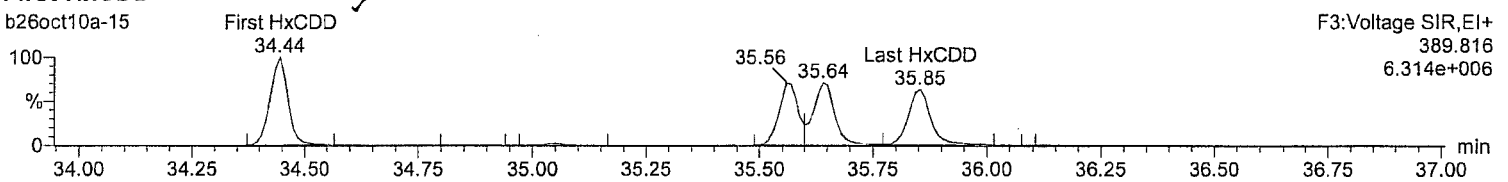
First TCDD



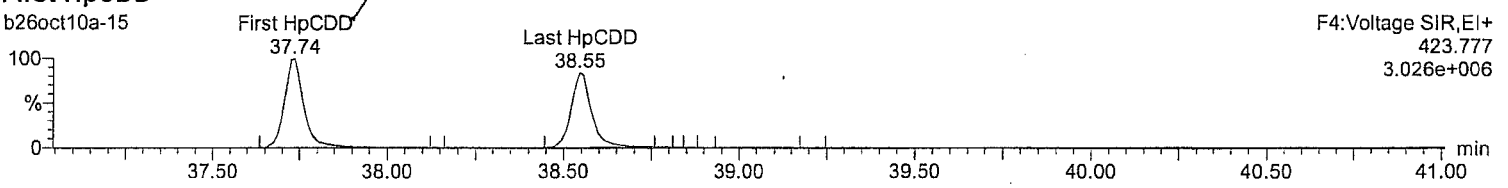
First PeCDD



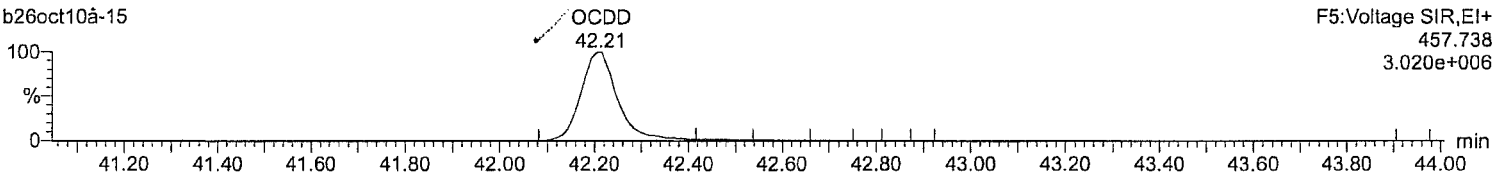
First HxCDD



First HpCDD

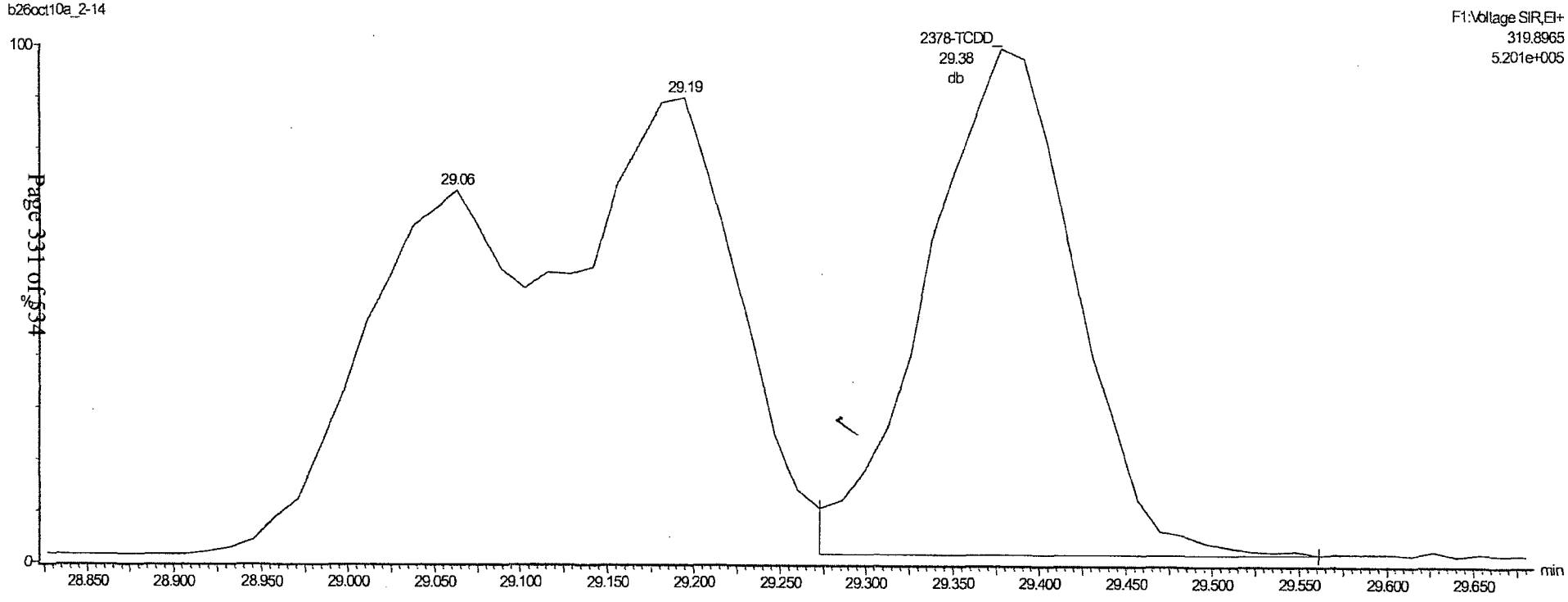


OCDD



COLUMN PERFORMANCE CHECK (2378-TCDD 9%)

b26oct10a_2-14



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:41:21 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:42:39 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	24.24
2	Last TCDF	30.58
3	First PeCDF	30.57
4	Last PeCDF	33.57
5	First HxCDF	34.05
6	Last HxCDF	36.13
7	First HpCDF	37.44
8	Last HpCDF	39.12
9	OCDF	42.47
10	First TCDD	25.93
11	2378-TCDD	29.38
12	Last TCDD	30.44
13	First PeCDD	31.91
14	Last PeCDD	33.42
15	First HxCDD	34.44
16	Last HxCDD	35.85
17	First HpCDD	37.74
18	Last HpCDD	38.56
19	OCDD	42.20

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

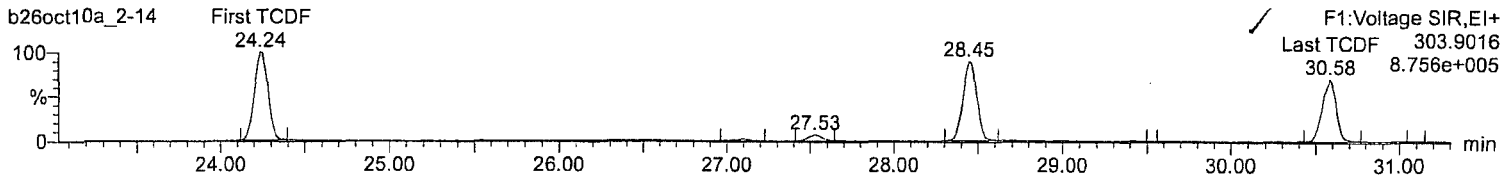
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:41:21 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:42:39 Eastern Standard Time

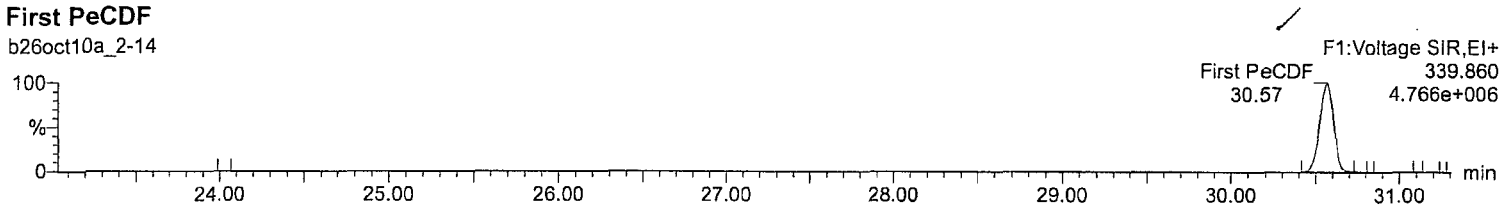
Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

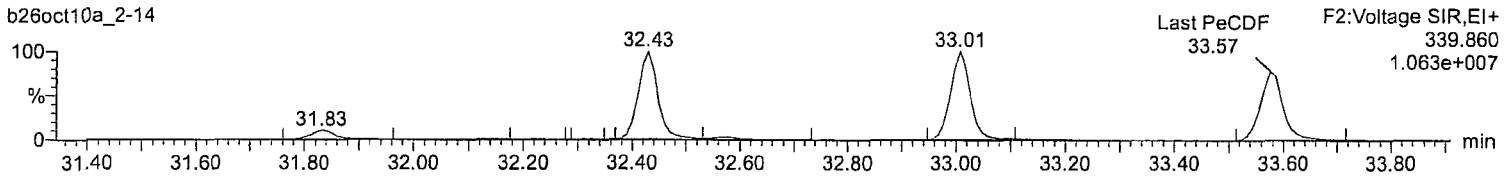
First TCDF



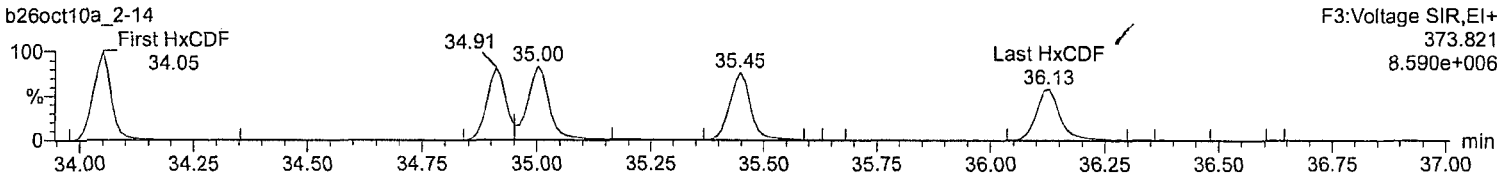
First PeCDF



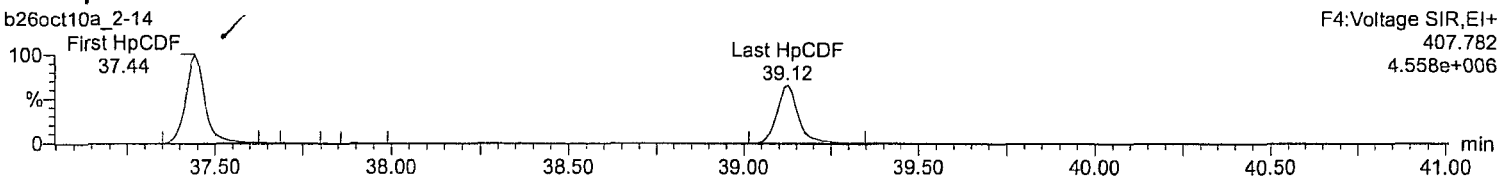
Last PeCDF



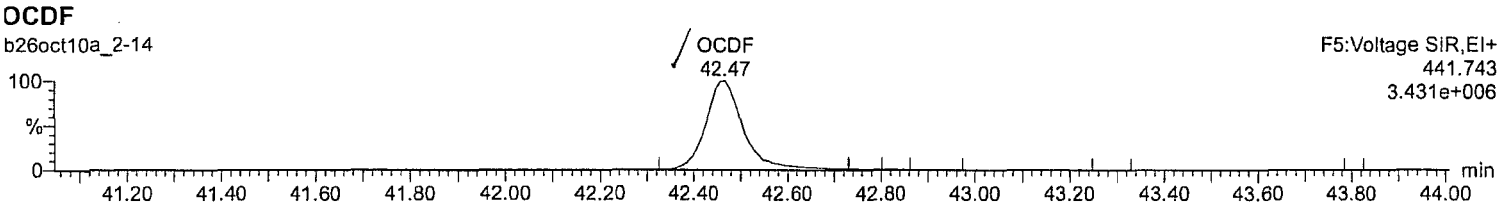
First HxCDF



First HpCDF



OCDF



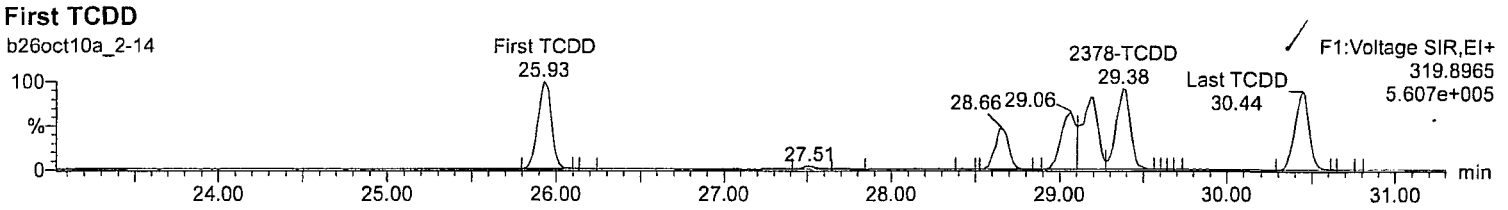
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_2-14.qld

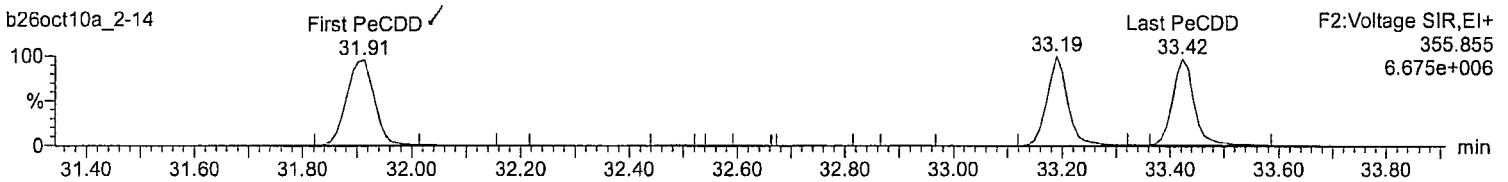
Last Altered: Thursday, October 28, 2010 09:41:21 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:42:39 Eastern Standard Time

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

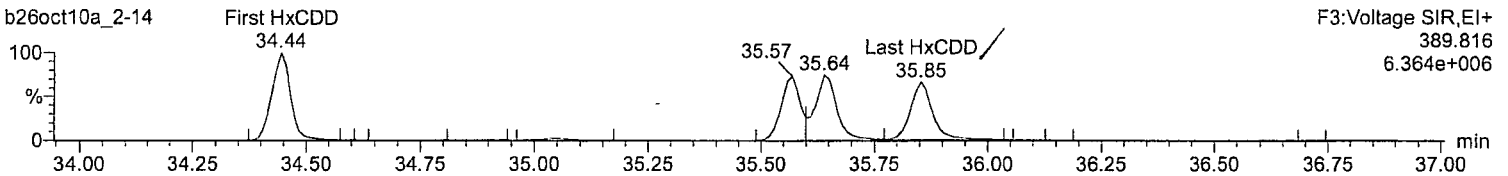
First TCDD



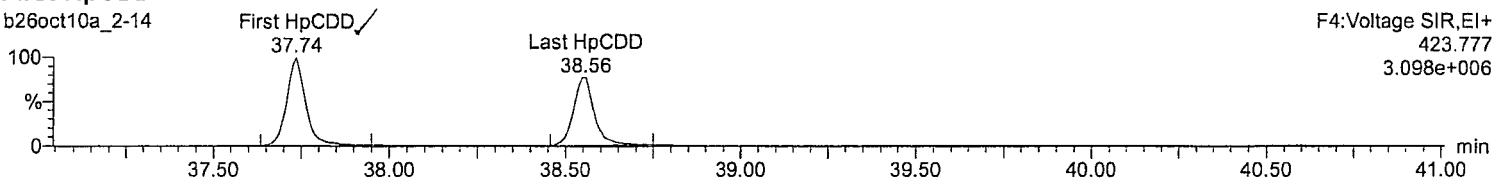
First PeCDD



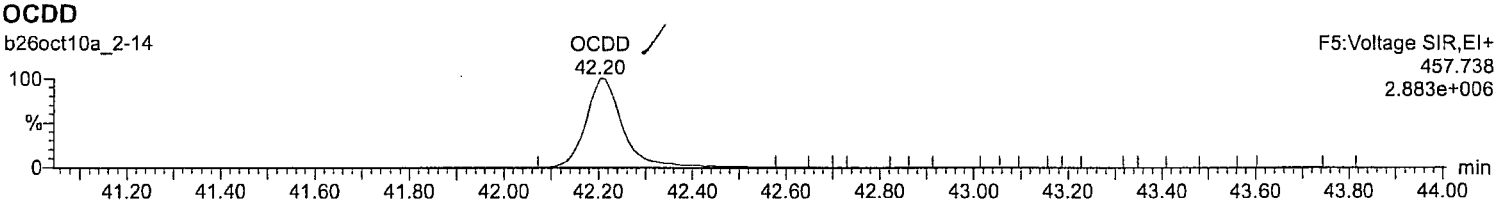
First HxCDD



First HpCDD



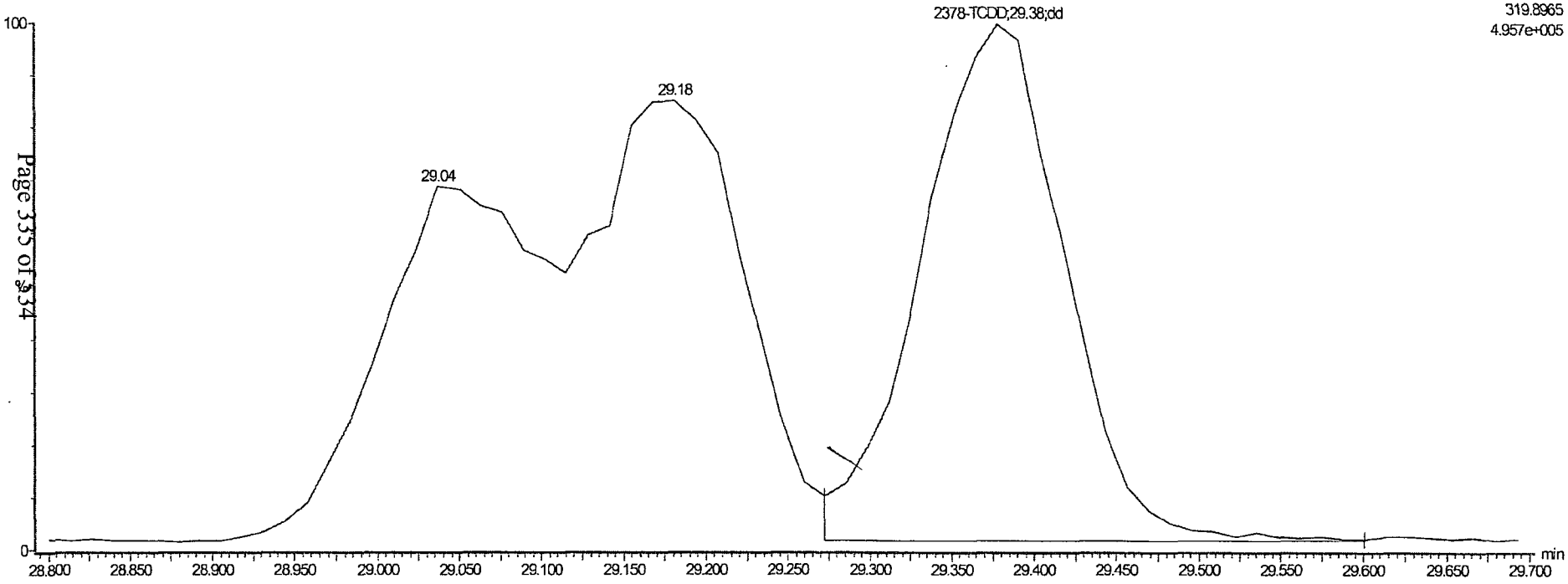
OCDD



COLUMN PERFORMANCE CHECK (2378-TCDD 8%)

b26oct10a_3-14

F1:Voltage SIR,EI+
319.8965
4.957e+005



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:03:10 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:04:24 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	24.25
2	Last TCDF	30.58
3	First PeCDF	30.57
4	Last PeCDF	33.57
5	First HxCDF	34.05
6	Last HxCDF	36.12
7	First HpCDF	37.44
8	Last HpCDF	39.11
9	OCDF	42.46
10	First TCDD	25.94
11	2378-TCDD	29.38
12	Last TCDD	30.43
13	First PeCDD	31.90
14	Last PeCDD	33.42
15	First HxCDD	34.44
16	Last HxCDD	35.85
17	First HpCDD	37.74
18	Last HpCDD	38.55
19	OCDD	42.21

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

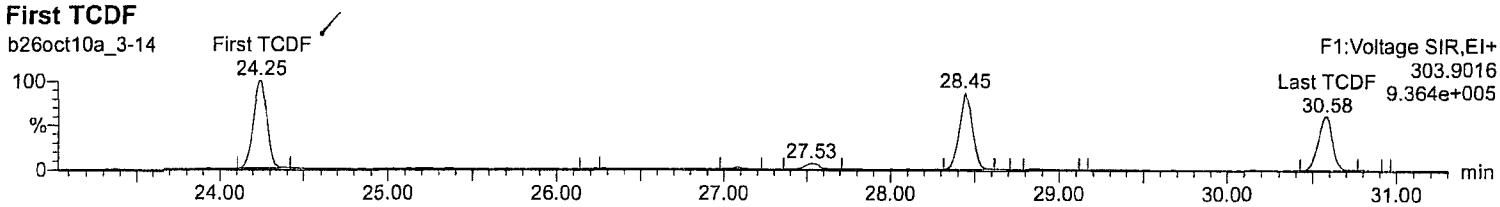
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:03:10 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:04:24 Eastern Standard Time

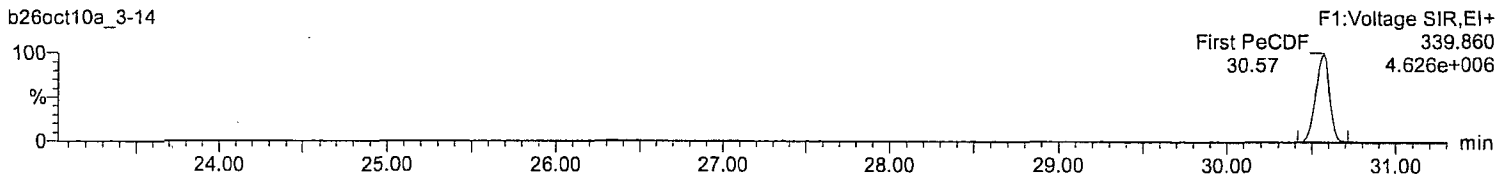
Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

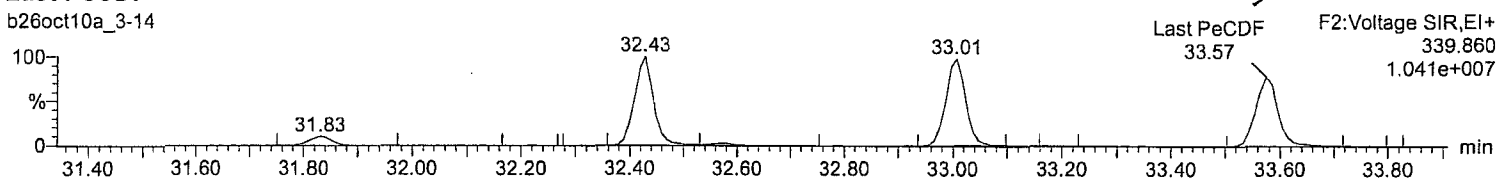
First TCDF



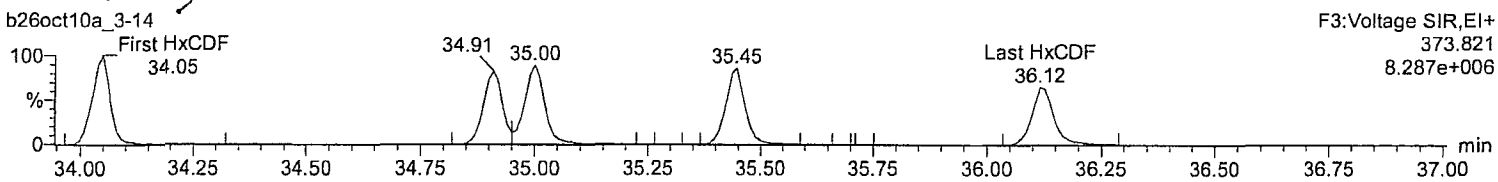
First PeCDF



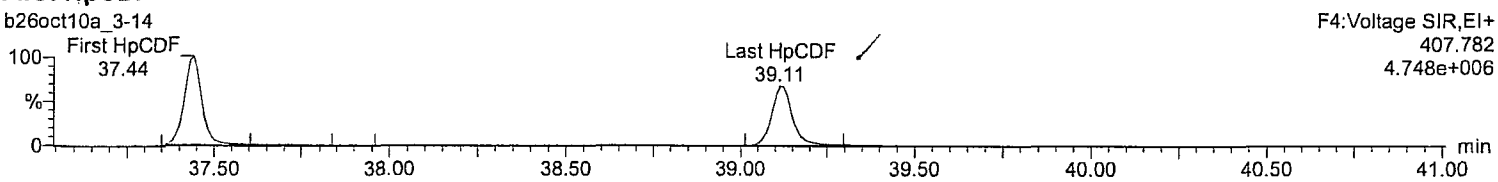
Last PeCDF



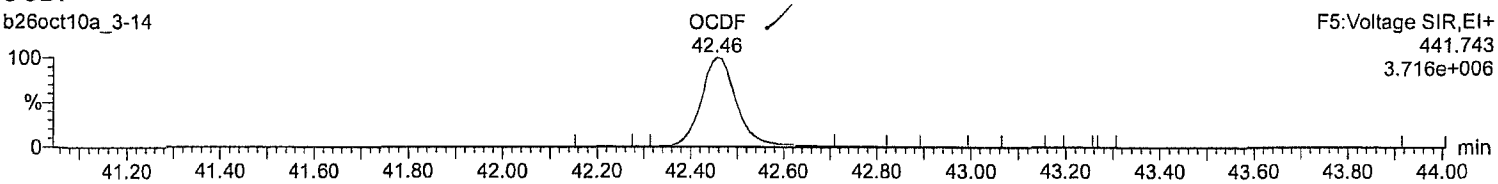
First HxCDF



First HpCDF



OCDF



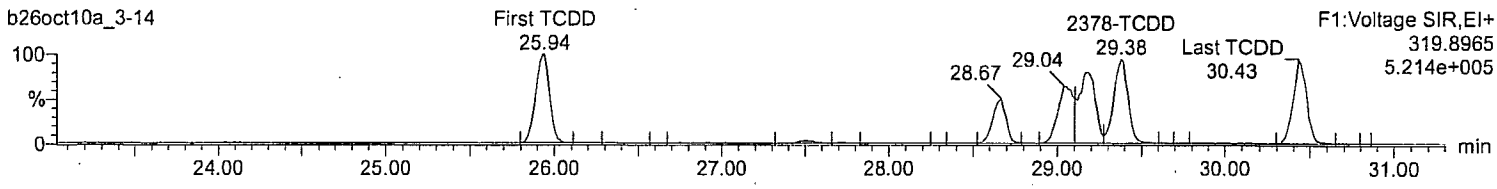
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b26oct10a_3-14.qld

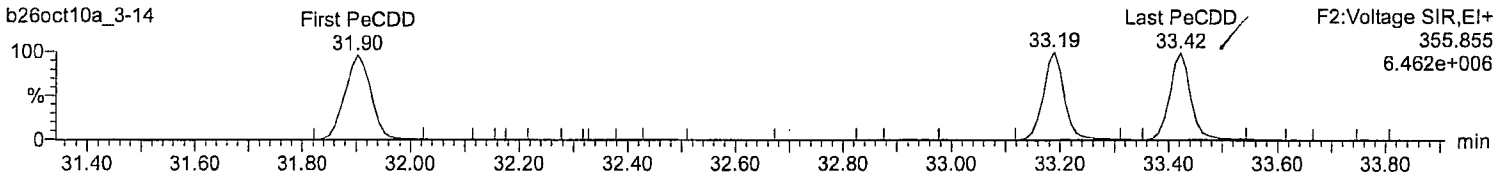
Last Altered: Thursday, October 28, 2010 10:03:10 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:04:24 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

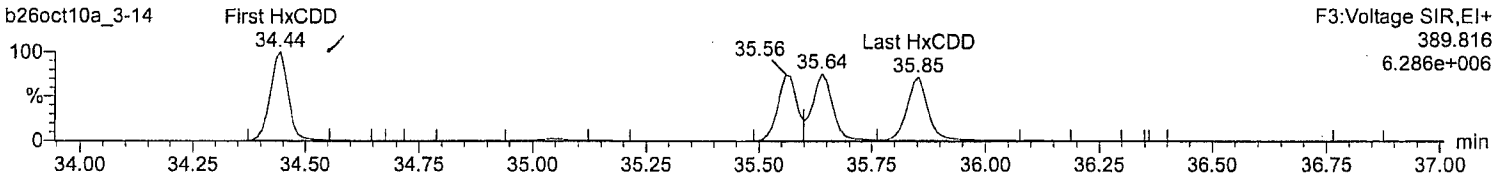
First TCDD



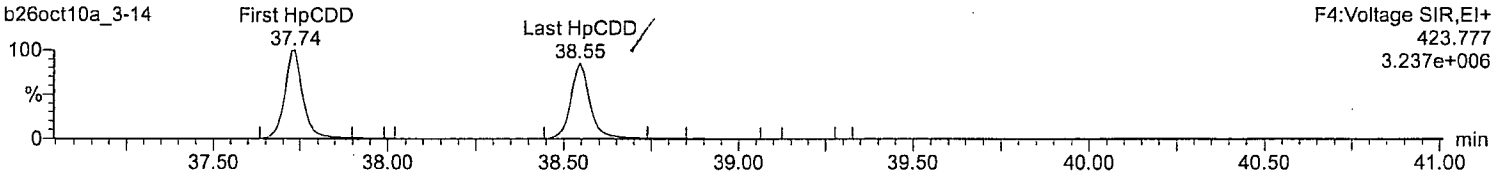
First PeCDD



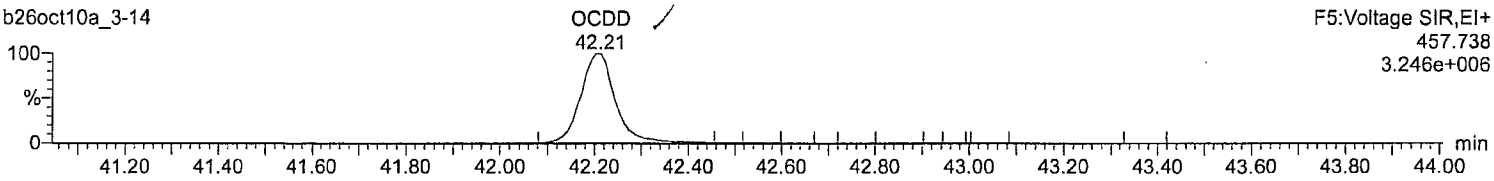
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	5.04e4	6.52e4	1.16e5	29.39	1.000	0.77	NO	11.436	0.0885	1.057	0.925	14.4	5.80e5	1567	370.4	7.30e5	1648	442.7	db
2	12378-PeCDD	2.95e5	1.86e5	4.80e5	33.19	1.000	1.59	NO	52.165	0.0724	1.034	0.991	4.3	7.63e6	3239	2354.9	4.74e6	2568	1844.2	bb
3	123478-HxCDD	2.41e5	1.92e5	4.33e5	35.57	1.000	1.25	NO	51.529	0.154	1.035	1.004	3.1	5.42e6	5507	985.0	4.43e6	4073	1087.5	bd
4	123678-HxCDD	2.66e5	2.11e5	4.77e5	35.64	1.000	1.26	NO	52.614	0.156	0.966	0.918	5.2	5.43e6	5507	986.6	4.48e6	4073	1099.8	dd
5	123789-HxCDD	2.48e5	1.97e5	4.45e5	35.85	1.006	1.26	NO	51.989	0.158	0.976	0.939	4.0	5.10e6	5507	925.5	3.91e6	4073	959.3	db
6	1234678-HpCDD	1.89e5	1.83e5	3.72e5	38.55	1.000	1.03	NO	54.050	0.181	1.066	0.986	8.1	3.12e6	3891	802.0	3.08e6	2931	1049.8	bd
7	OCDD	2.95e5	3.29e5	6.24e5	42.20	1.000	0.90	NO	106.307	0.215	1.043	0.981	6.3	3.67e6	2761	1330.1	4.08e6	2420	1687.8	bd
8	2378-TCDF	7.08e4	9.18e4	1.63e5	28.46	1.001	0.77	NO	9.798	0.0625	0.920	0.939	-2.0	8.34e5	1648	505.9	1.12e6	2361	472.9	bb
9	12378-PeCDF	4.38e5	2.84e5	7.22e5	32.43	1.000	1.54	NO	52.178	0.0983	0.927	0.888	4.4	1.10e7	5456	2011.1	7.09e6	5769	1228.7	bd
10	23478-PeCDF	4.38e5	2.89e5	7.27e5	33.01	1.000	1.52	NO	51.303	0.0893	0.973	0.949	2.6	1.22e7	5456	2233.4	7.78e6	5769	1348.5	bb
11	123478-HxCDF	3.27e5	2.71e5	5.98e5	34.91	1.000	1.21	NO	50.015	0.143	1.104	1.104	0.0	7.86e6	6502	1208.5	6.54e6	6970	938.6	bd
12	123678-HxCDF	3.75e5	3.05e5	6.80e5	35.00	1.000	1.23	NO	49.901	0.141	1.046	1.048	-0.2	8.18e6	6502	1258.6	6.68e6	6970	959.1	db
13	234678-HxCDF	3.47e5	2.88e5	6.36e5	35.45	1.000	1.21	NO	50.212	0.148	1.088	1.084	0.4	7.83e6	6502	1203.8	6.35e6	6970	910.5	bb
14	123789-HxCDF	3.05e5	2.46e5	5.51e5	36.13	1.001	1.24	NO	49.564	0.191	1.008	1.017	-0.9	5.85e6	6502	900.4	4.87e6	6970	699.2	bb
15	1234678-HpCDF	2.87e5	2.80e5	5.67e5	37.44	1.001	1.03	NO	50.969	0.113	1.286	1.262	1.9	5.42e6	3734	1452.1	5.50e6	3899	1410.5	bd
16	1234789-HpCDF	2.32e5	2.25e5	4.58e5	39.11	1.000	1.03	NO	53.390	0.176	1.318	1.234	6.8	3.55e6	3734	949.4	3.46e6	3899	887.9	bd
17	OCDF	3.45e5	3.88e5	7.33e5	42.46	1.006	0.89	NO	102.409	0.194	1.225	1.196	2.4	4.12e6	2535	1626.9	4.59e6	3167	1448.2	bd
18	13C-2378-TCDD	4.76e5	6.18e5	1.09e6	29.38	1.026	0.77	NO	96.977	0.0812	1.074	1.107	-3.0	5.13e6	2272	2256.7	6.59e6	1373	4802.3	bb
19	13C-12378-PeCDD	5.66e5	3.62e5	9.29e5	33.18	1.158	1.56	NO	109.444	0.133	0.912	0.833	9.4	1.48e7	2581	5735.2	9.14e6	1925	4746.9	bb
20	13C-123478-HxCDD	4.69e5	3.68e5	8.37e5	35.56	0.992	1.28	NO	107.163	0.133	0.915	0.854	7.2	1.04e7	3955	2640.4	8.23e6	3174	2592.8	bd
21	13C-123678-HxCDD	5.46e5	4.42e5	9.88e5	35.63	0.994	1.24	NO	98.724	0.104	1.080	1.094	-1.3	1.11e7	3955	2812.2	9.25e6	3174	2912.8	dd
22	13C-1234678-HpCDD	3.58e5	3.40e5	6.98e5	38.54	1.075	1.05	NO	101.253	0.153	0.763	0.754	1.3	5.89e6	3210	1834.9	5.72e6	4017	1423.4	bb
23	13C-OCDD	5.67e5	6.30e5	1.20e6	42.19	1.177	0.90	NO	199.152	0.206	0.655	0.657	-0.4	6.97e6	2966	2349.9	7.68e6	5514	1392.2	bd
24	13C-2378-TCDF	7.83e5	9.85e5	1.77e6	28.43	0.993	0.79	NO	100.712	0.0845	1.737	1.724	0.7	9.08e6	2236	4059.4	1.13e7	3673	3086.8	bb
25	13C-12378-PeCDF	9.52e5	6.06e5	1.56e6	32.42	1.132	1.57	NO	108.134	0.201	1.530	1.415	8.1	2.36e7	5363	4394.4	1.49e7	6150	2429.8	bd
26	13C-23478-PeCDF	9.13e5	5.81e5	1.49e6	33.00	1.152	1.57	NO	109.419	0.212	1.466	1.340	9.4	2.43e7	5363	4531.8	1.55e7	6150	2522.3	bb
27	13C-123478-HxCDF	3.70e5	7.14e5	1.08e6	34.90	0.974	0.52	NO	105.112	0.177	1.185	1.127	5.1	8.72e6	6217	1402.1	1.70e7	6281	2714.4	bd
28	13C-123678-HxCDF	4.47e5	8.53e5	1.30e6	34.99	0.976	0.52	NO	96.501	0.135	1.422	1.473	-3.5	9.38e6	6217	1509.0	1.79e7	6281	2857.9	dd
29	13C-234678-HxCDF	4.01e5	7.67e5	1.17e6	35.44	0.989	0.52	NO	99.836	0.156	1.277	1.279	-0.2	8.66e6	6217	1393.7	1.68e7	6281	2669.6	bb
30	13C-123789-HxCDF	3.68e5	7.25e5	1.09e6	36.11	1.007	0.51	NO	108.181	0.180	1.194	1.104	8.2	7.01e6	6217	1128.2	1.36e7	6281	2169.9	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-1234678-HpCDF	2.67e5	6.15e5	8.82e5	37.42	1.044	0.43	NO	100.226	0.127	0.964	0.962	0.2	4.88e6	2533	1925.8	1.13e7	5109	2203.2	bb
32	13C-1234789-HpCDF	2.20e5	4.75e5	6.95e5	39.11	1.091	0.46	NO	101.525	0.163	0.760	0.748	1.5	3.33e6	2533	1316.2	7.39e6	5109	1447.0	bb
33	13C-1234-TCDD	4.48e5	5.70e5	1.02e6	28.64	0.000	0.79	NO	100.000	0.0899	1.000	1.000	0.0	5.35e6	2272	2356.0	6.76e6	1373	4922.0	bb
34	13C-123789-HxCDD	5.09e5	4.05e5	9.15e5	35.84	0.000	1.26	NO	100.000	0.114	1.000	1.000	0.0	1.05e7	3955	2649.0	8.17e6	3174	2572.6	db
35	37Cl-2378-TCDD	1.19e5		1.19e5	29.39	1.026			10.345	0.0218	1.169	1.130	3.5	1.35e6	999	1349.2				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

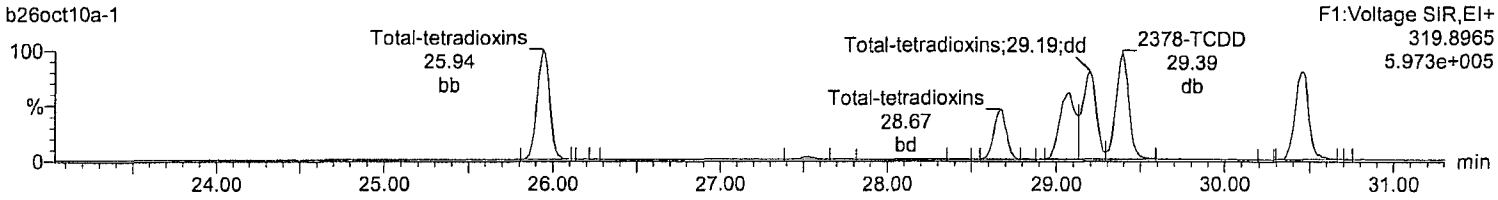
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

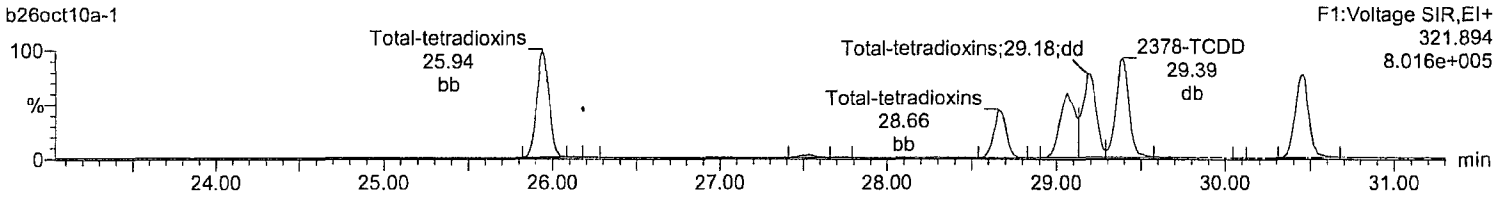
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

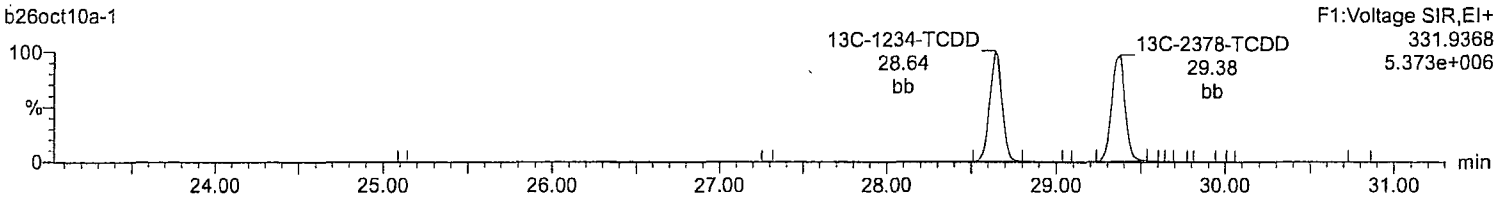
Total-tetradioxins



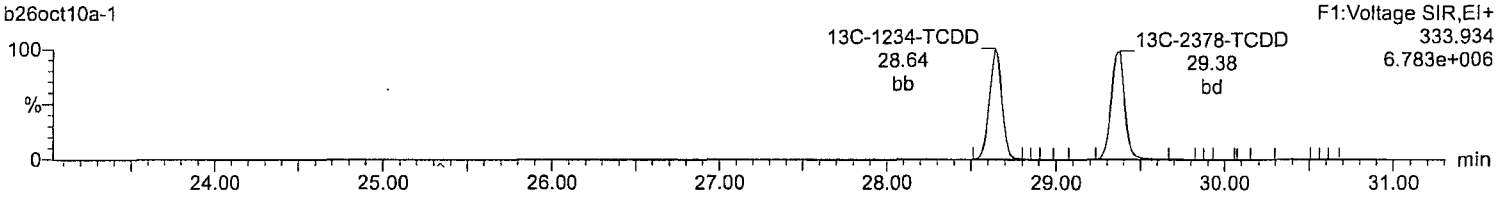
Total-tetradioxins



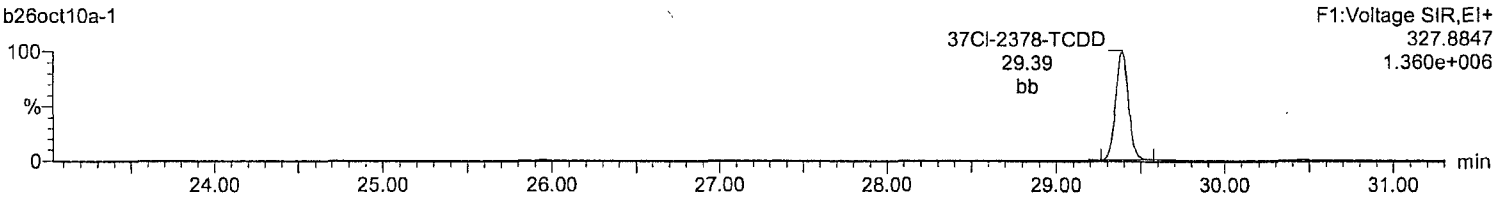
13C-2378-TCDD



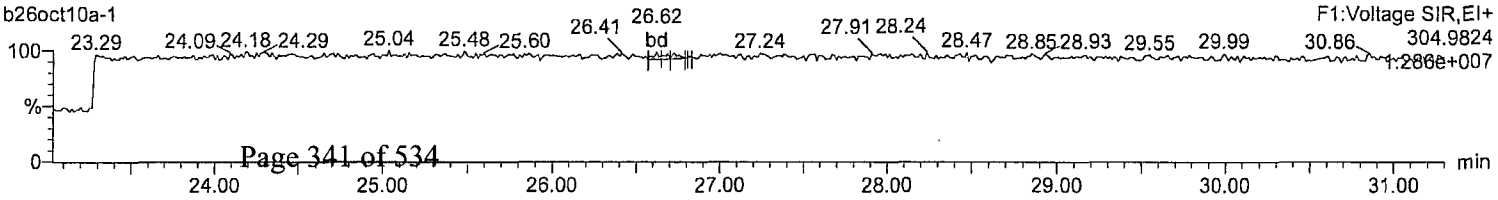
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



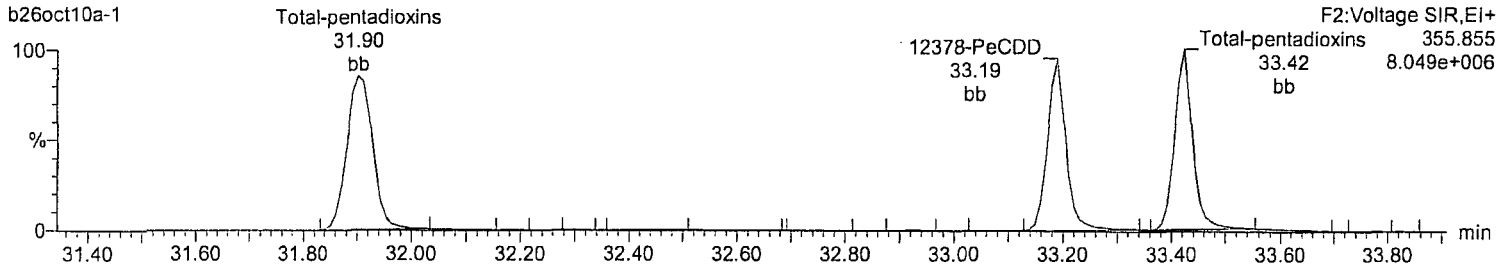
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

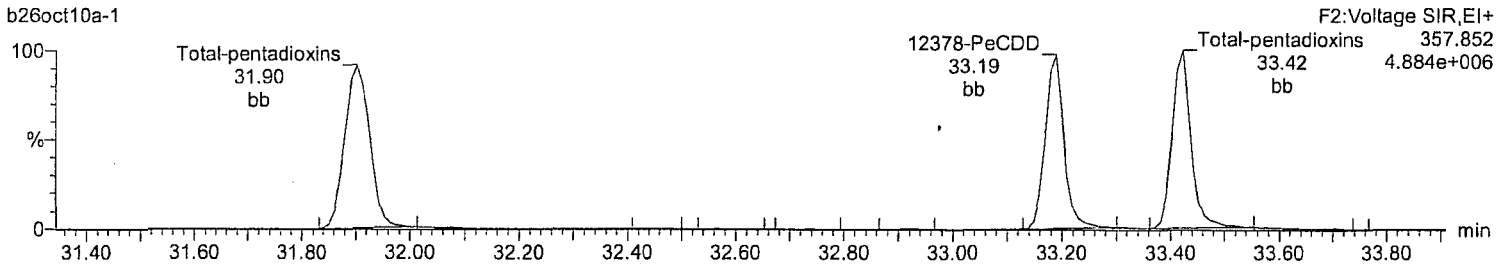
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

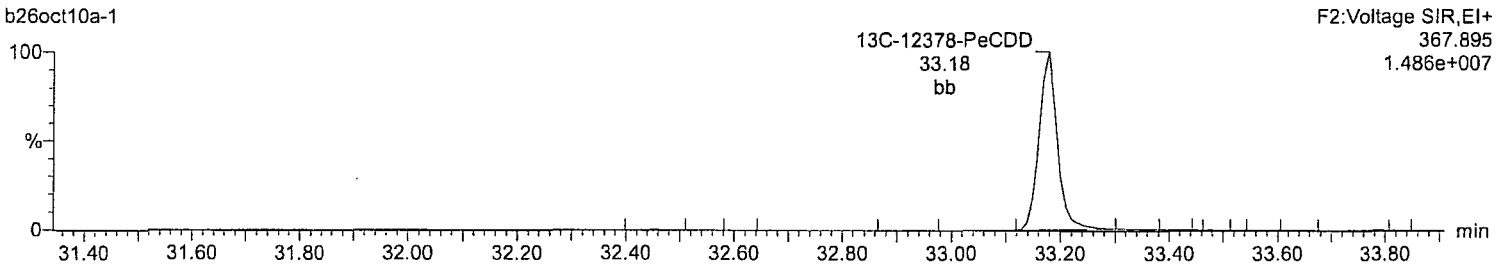
Total-pentadioxins



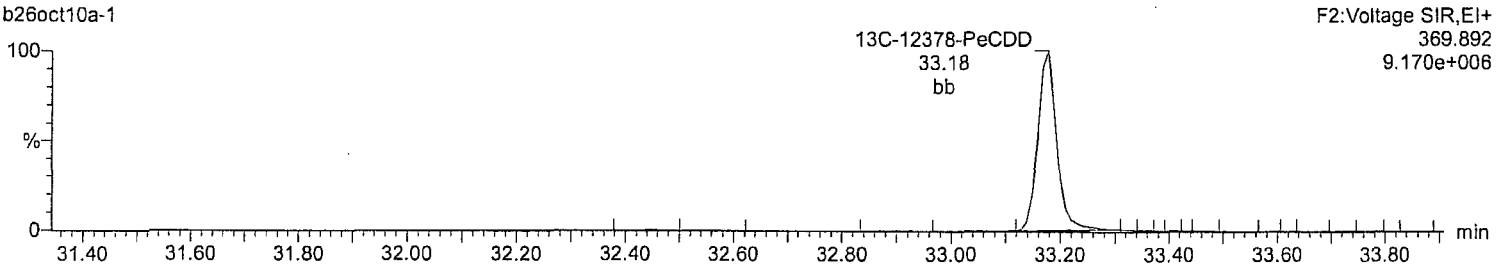
Total-pentadioxins



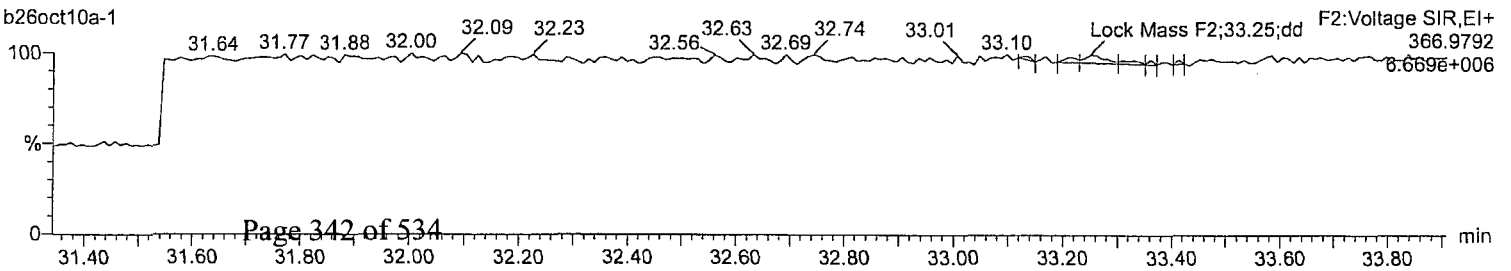
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



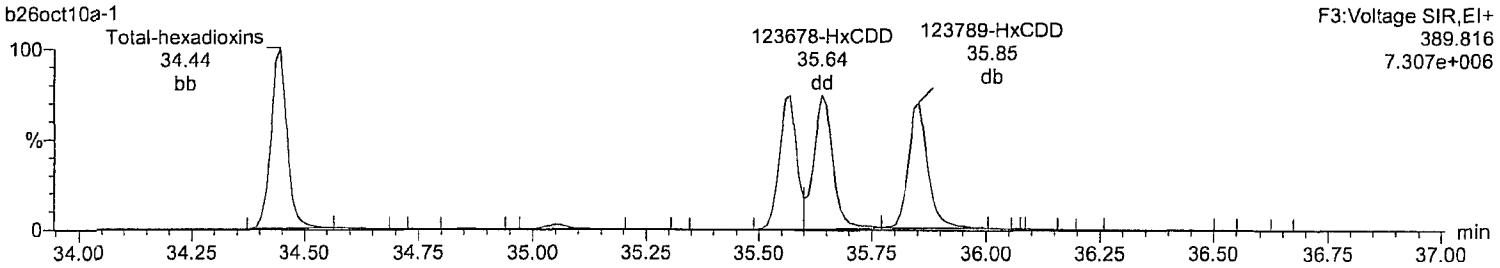
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

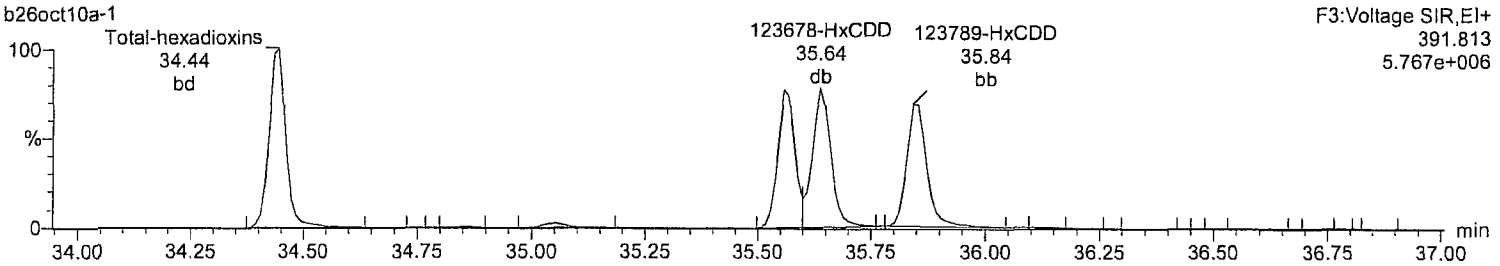
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

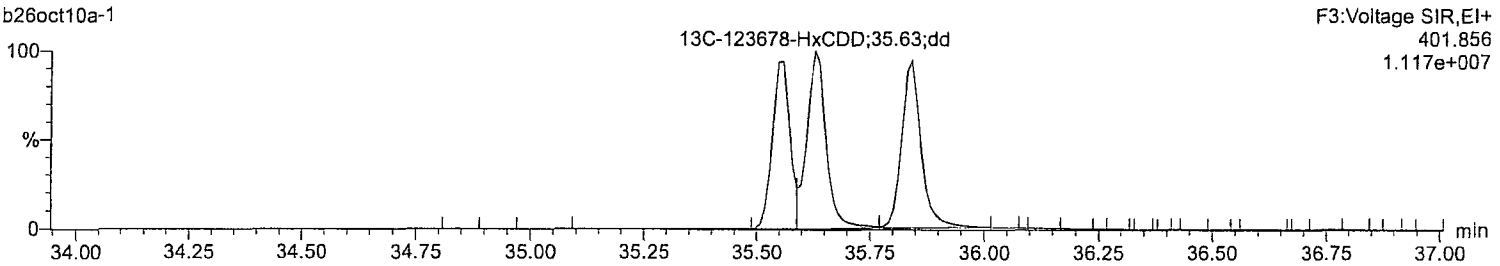
Total-hexadioxins



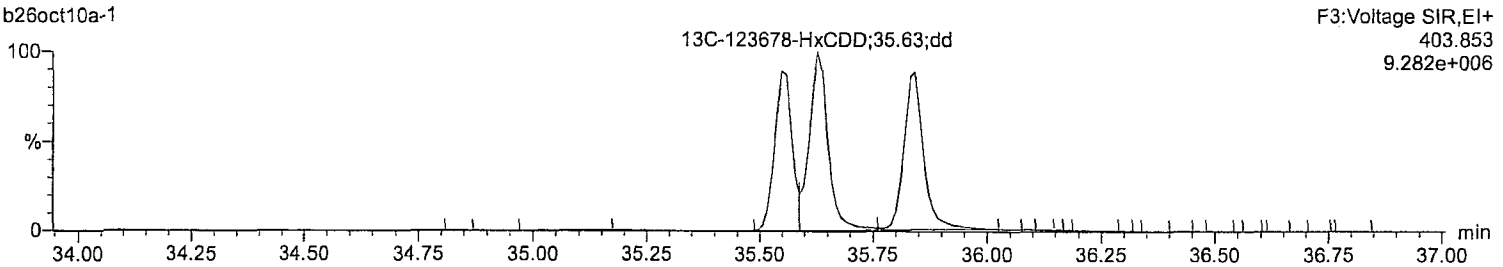
Total-hexadioxins



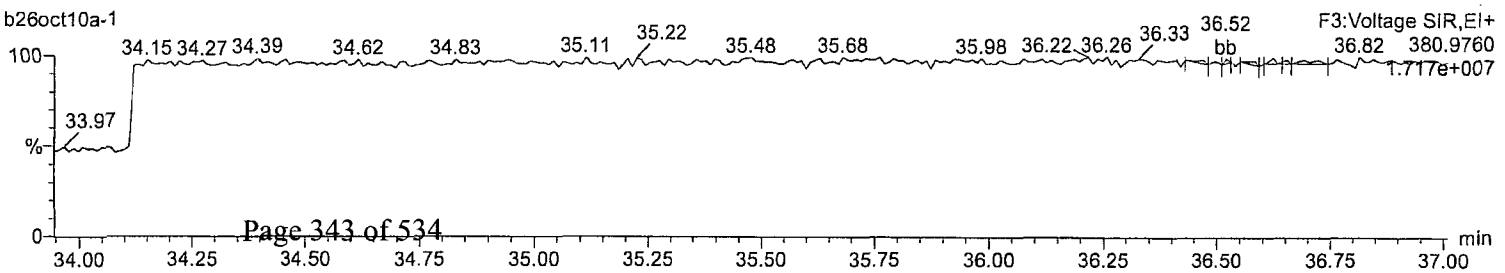
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



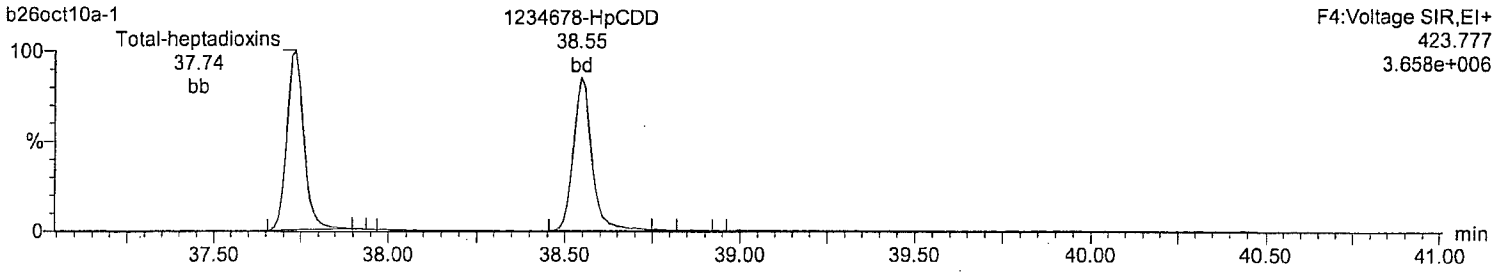
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

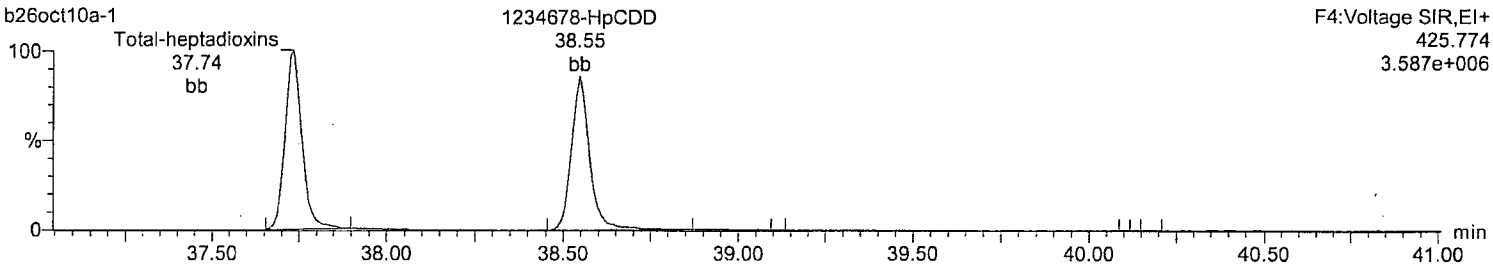
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

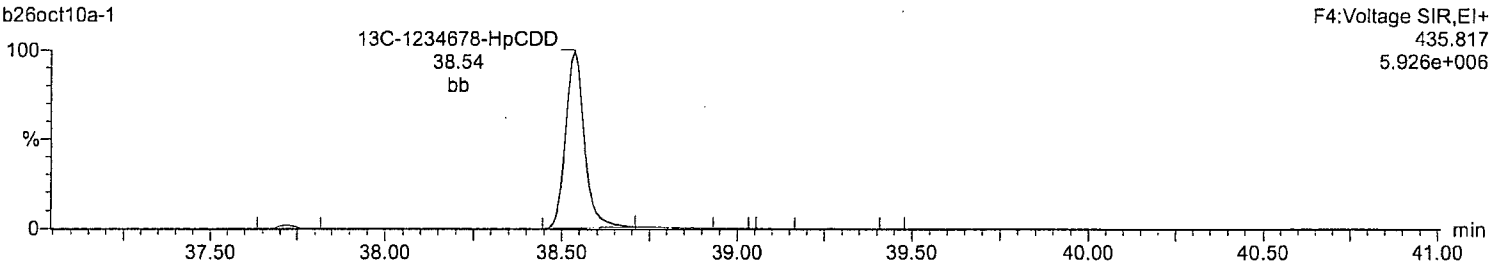
Total-heptadioxins



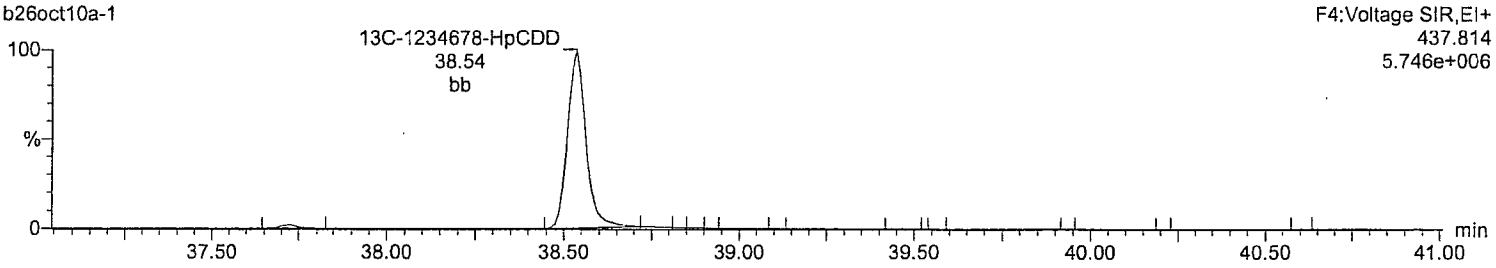
Total-heptadioxins



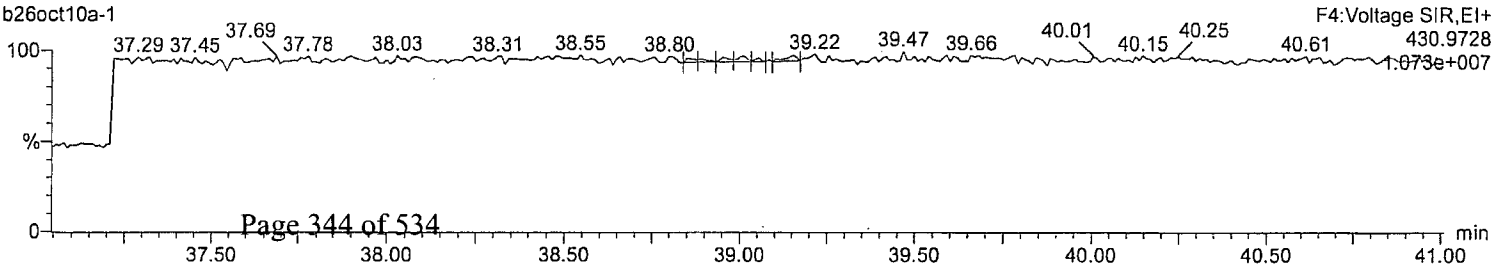
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



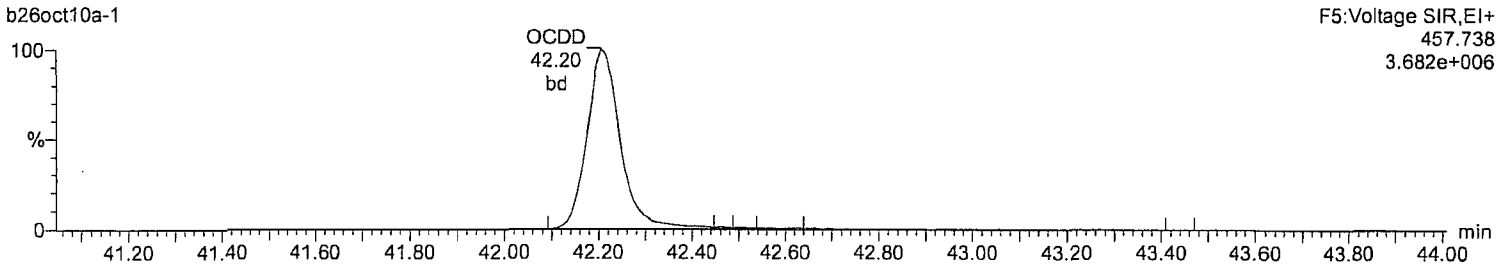
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

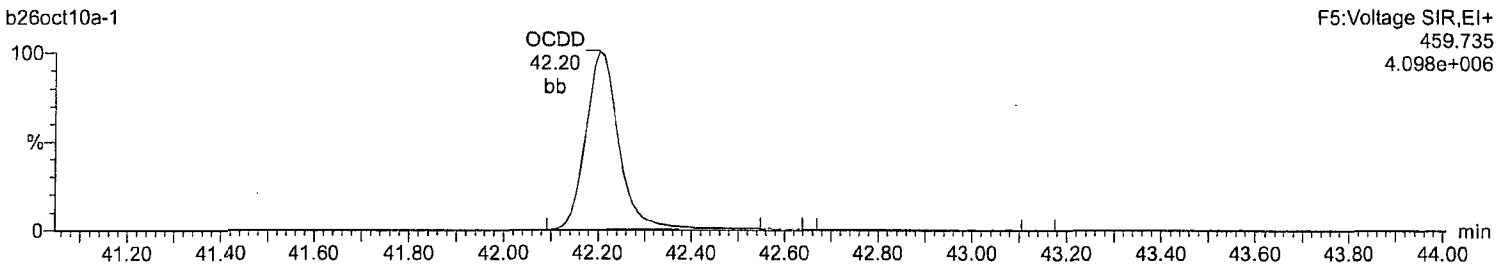
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

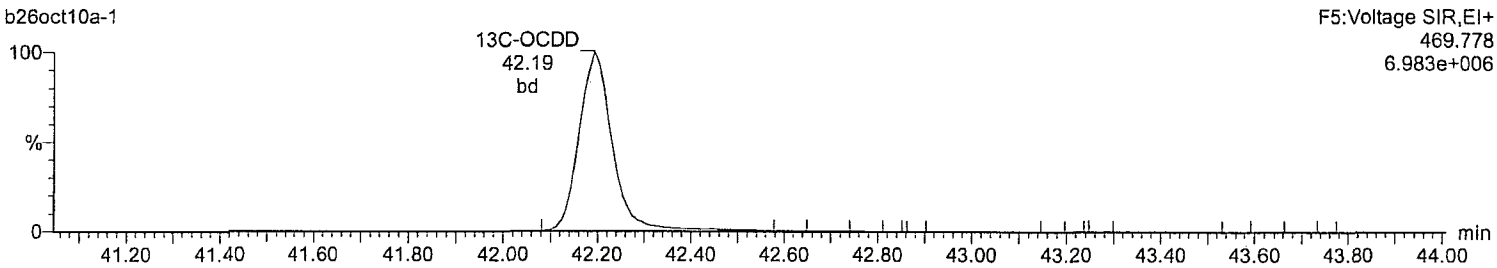
OCDD



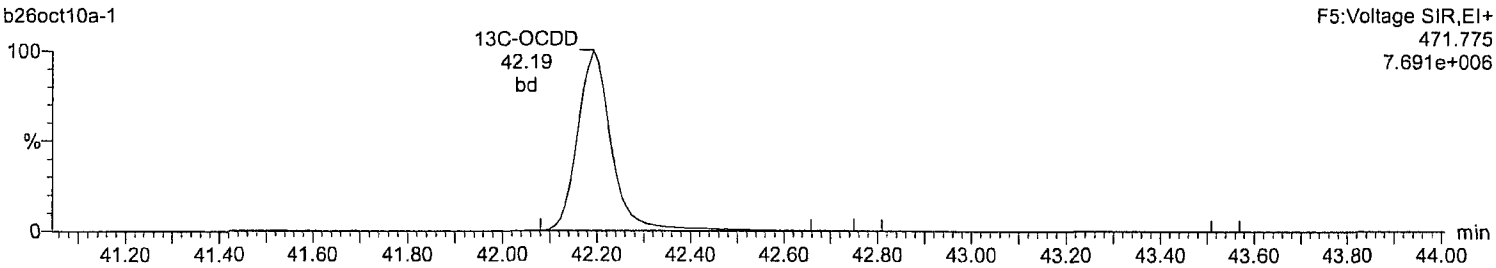
OCDD



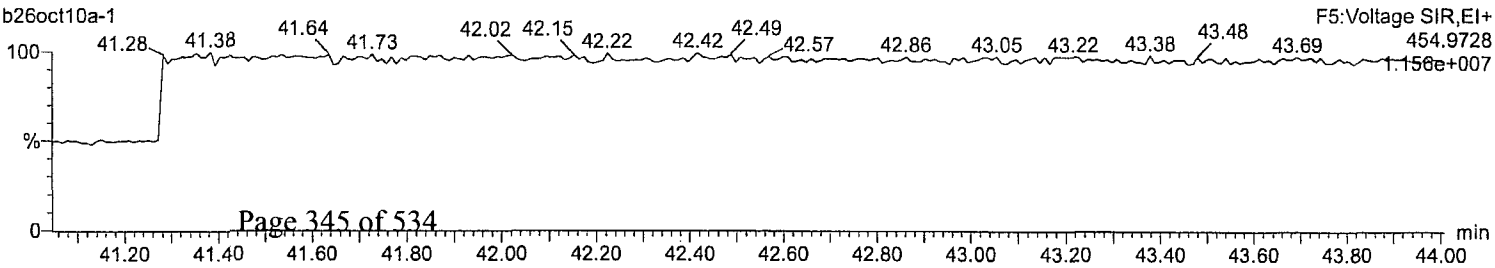
13C-OCDD



13C-OCDD



Lock Mass F5



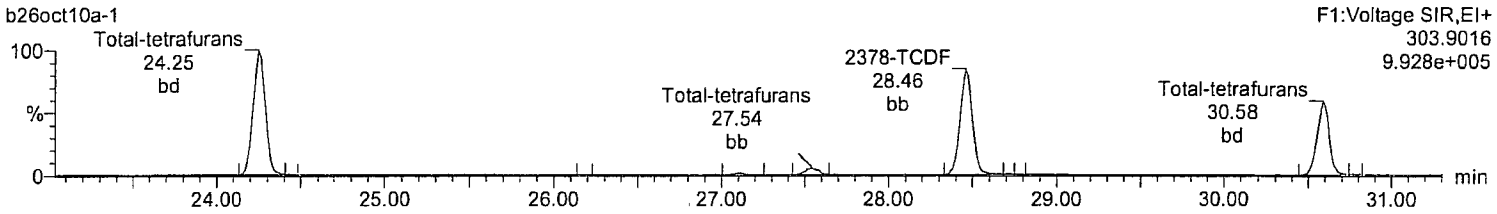
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

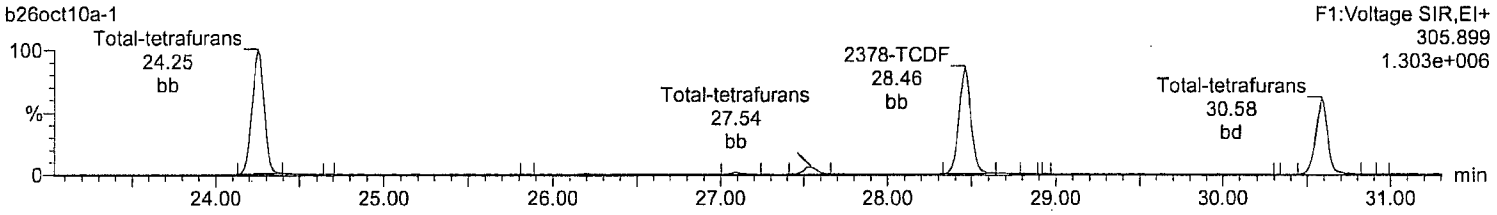
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

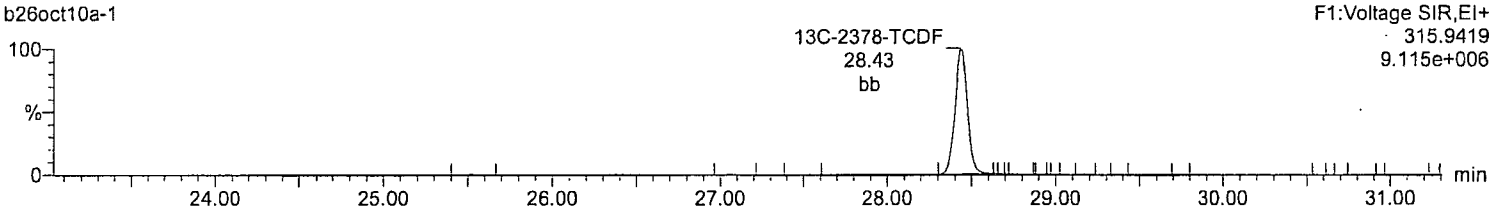
Total-tetrafurans



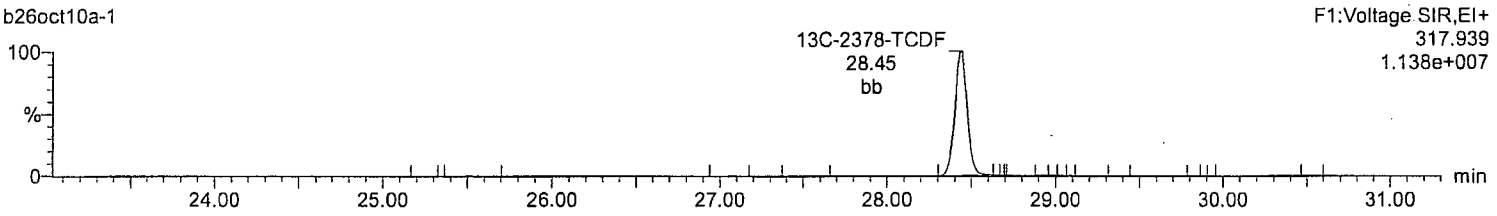
Total-tetrafurans



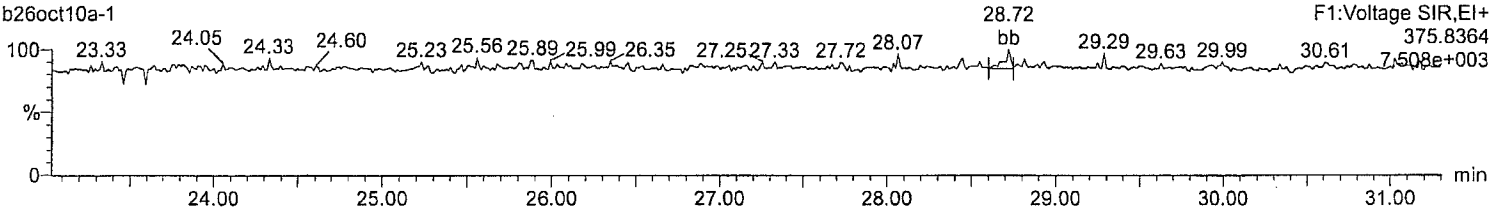
13C-2378-TCDF



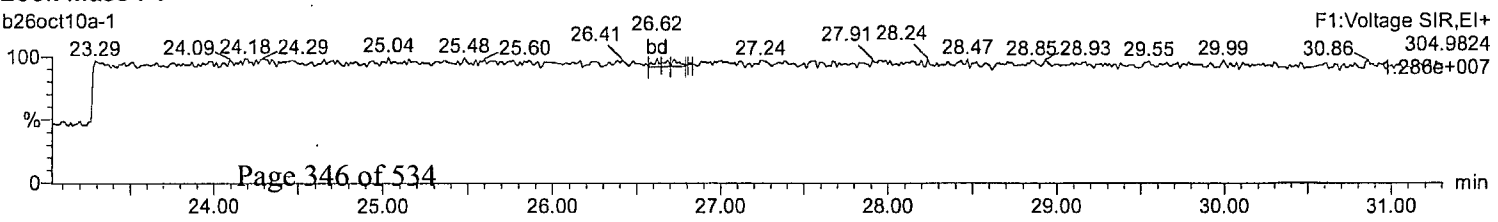
13C-2378-TCDF



HxDPE



Lock Mass F1



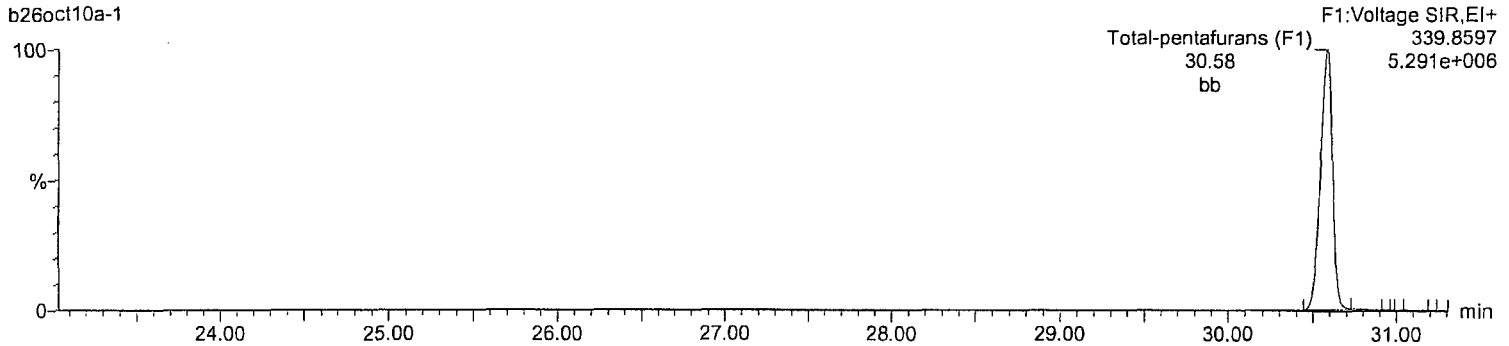
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

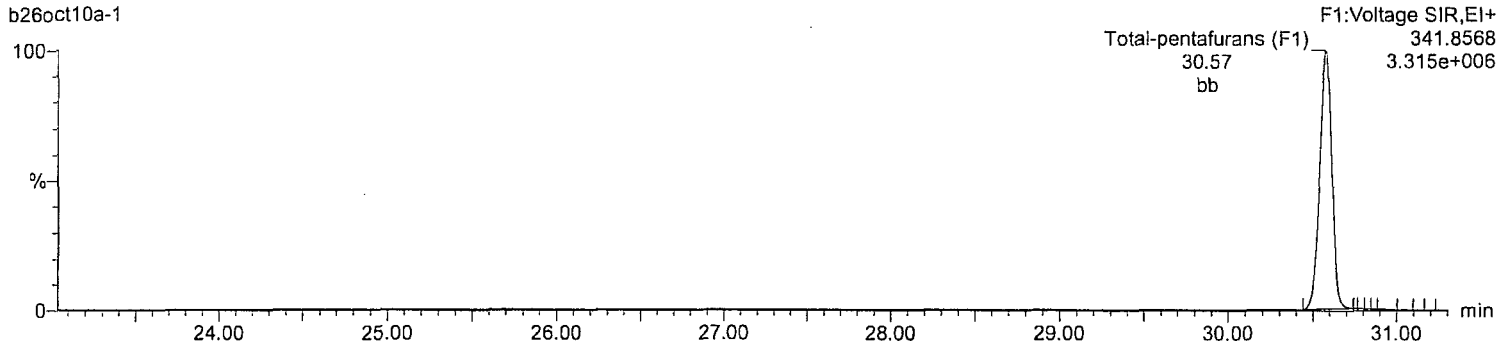
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

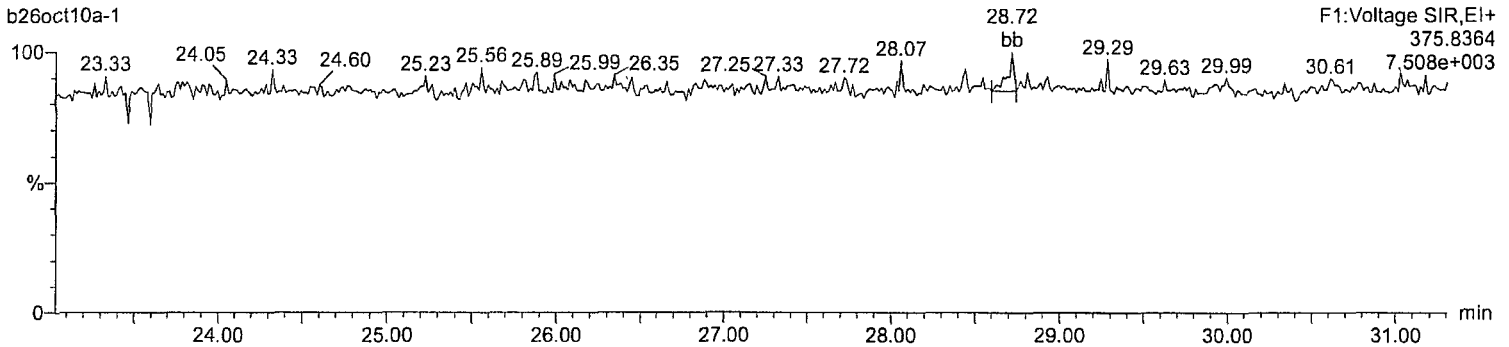
Total-pentafurans (F1)



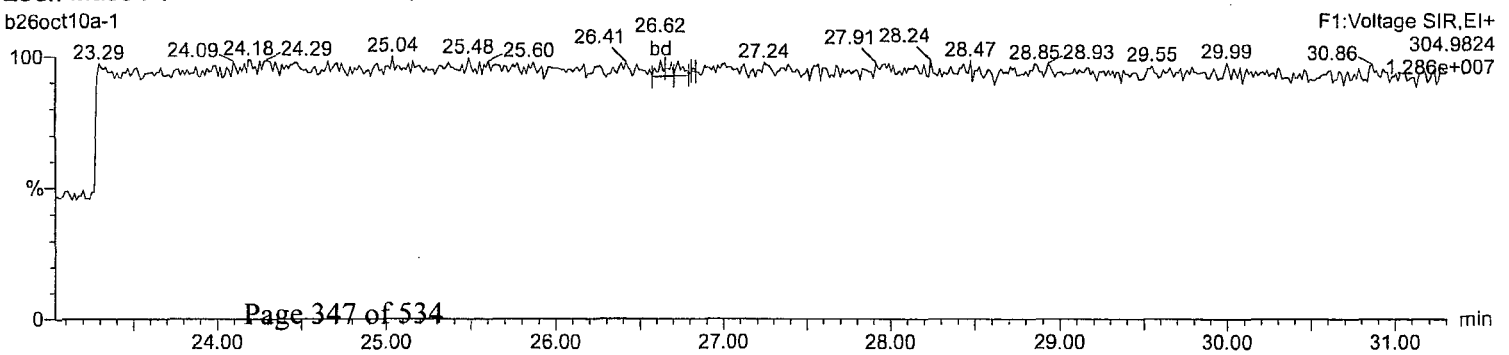
Total-pentafurans (F1)



HxDPE



Lock Mass F1



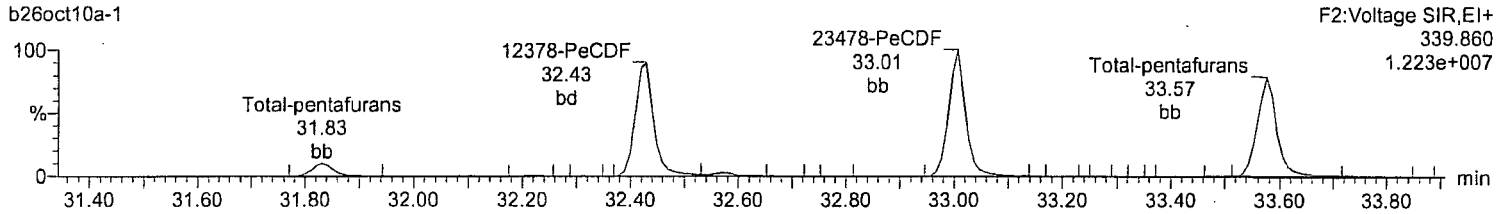
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

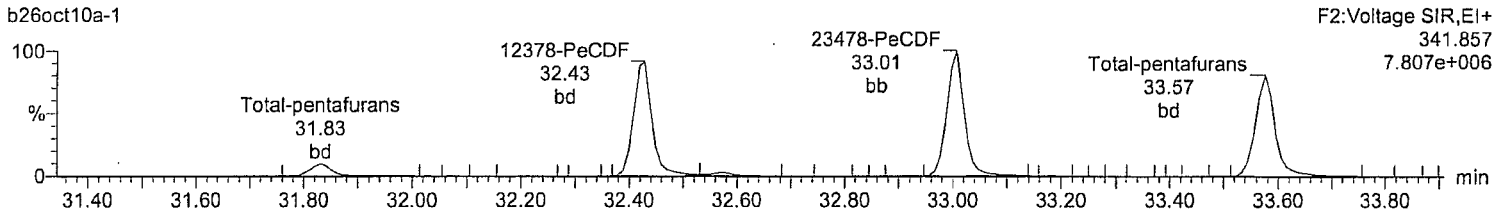
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

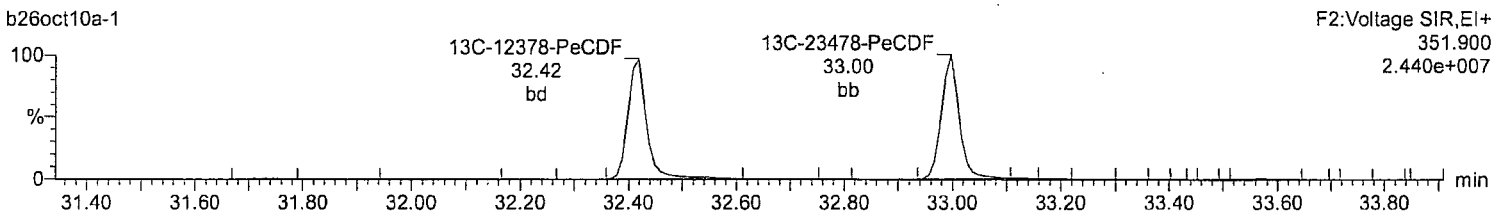
Total-pentafurans



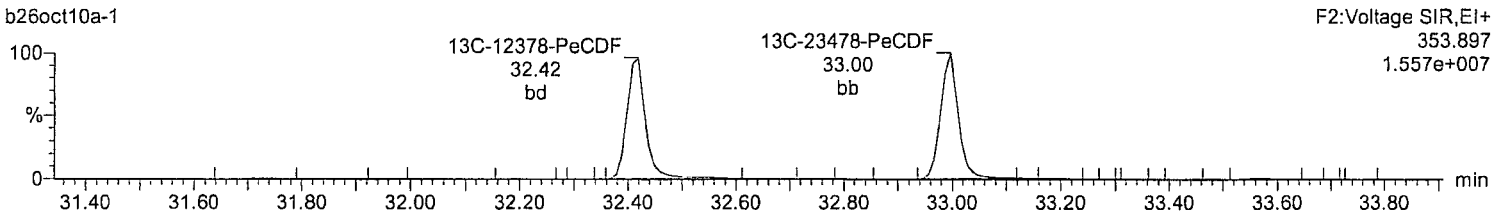
Total-pentafurans



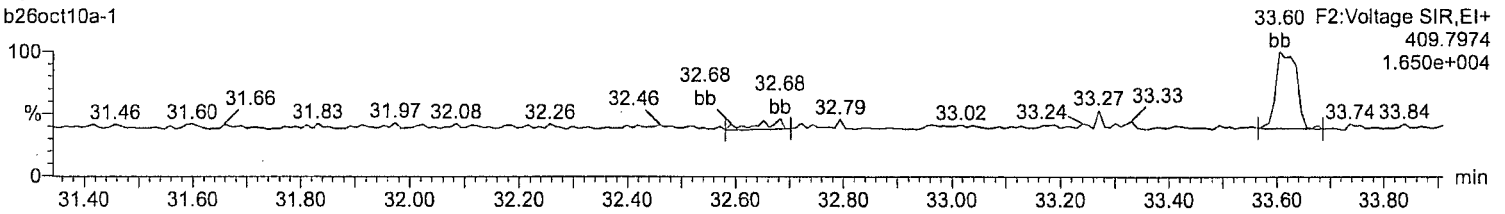
13C-12378-PeCDF



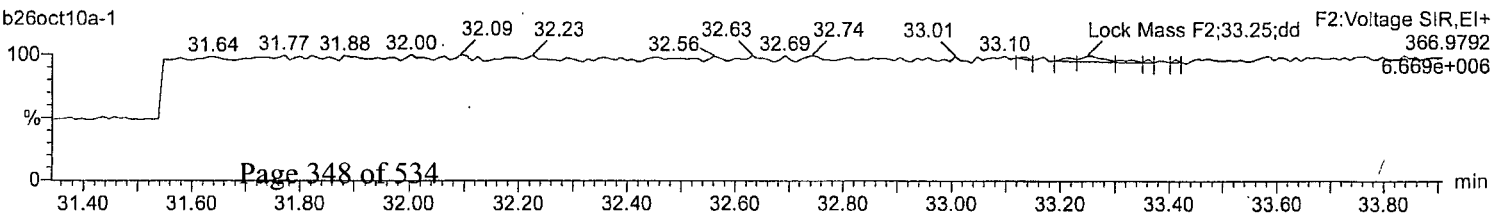
13C-12378-PeCDF



HpDPE



Lock Mass F2



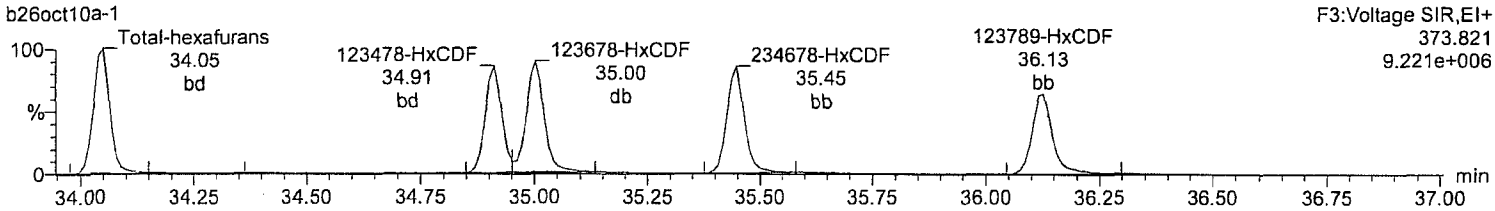
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

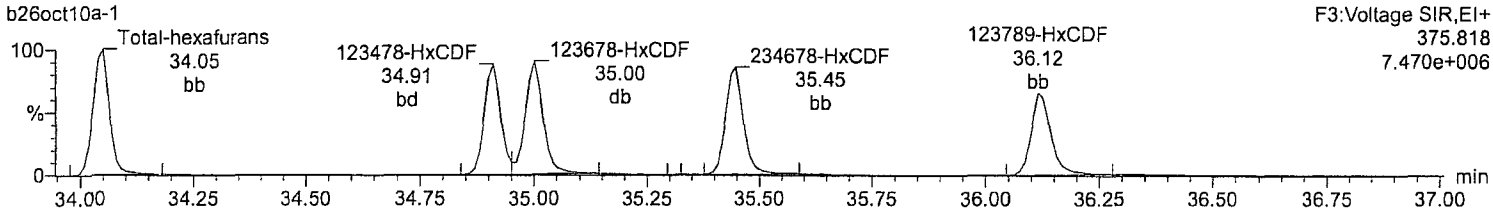
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

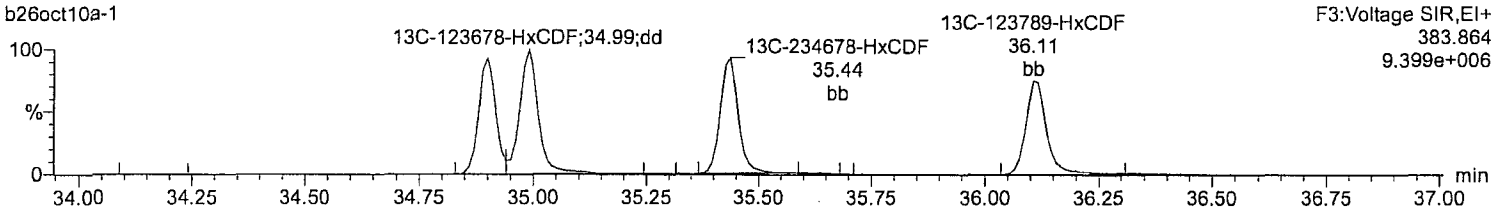
Total-hexafurans



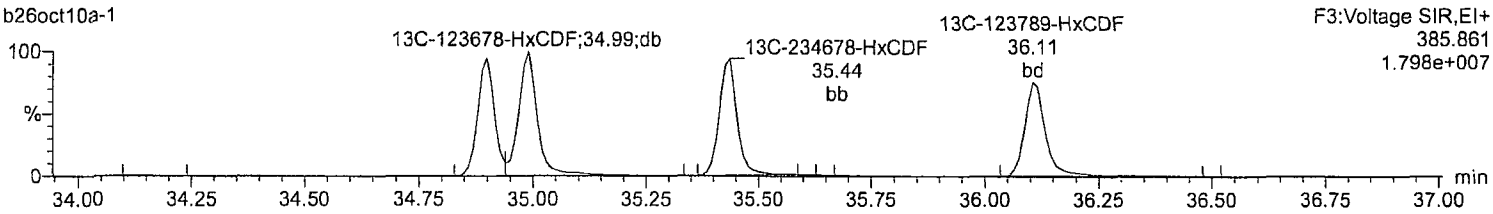
Total-hexafurans



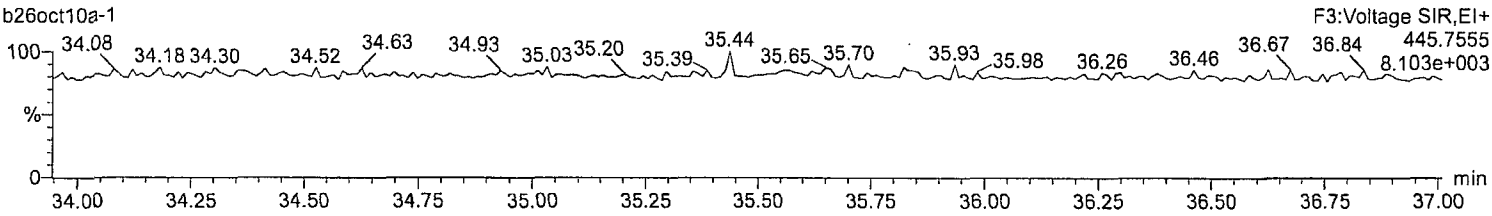
13C-123478-HxCDF



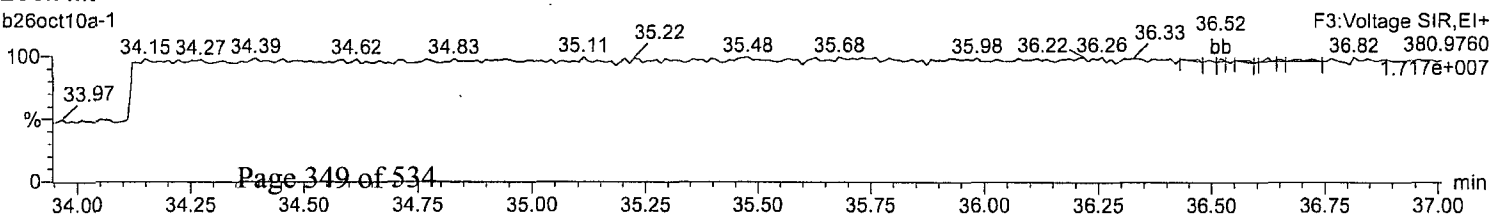
13C-123478-HxCDF



OcDPE



Lock Mass F3



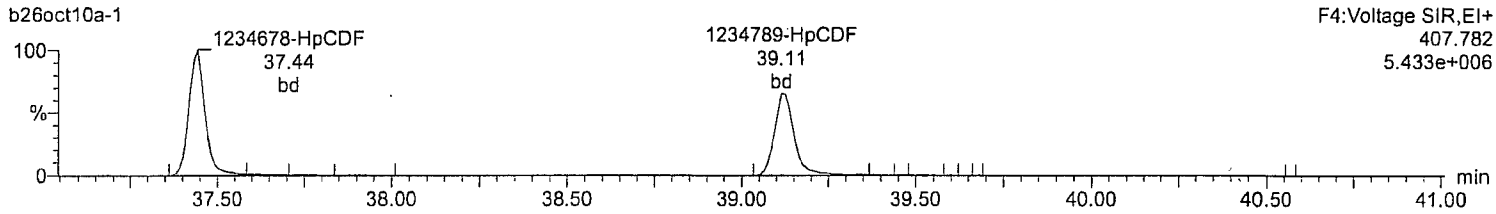
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

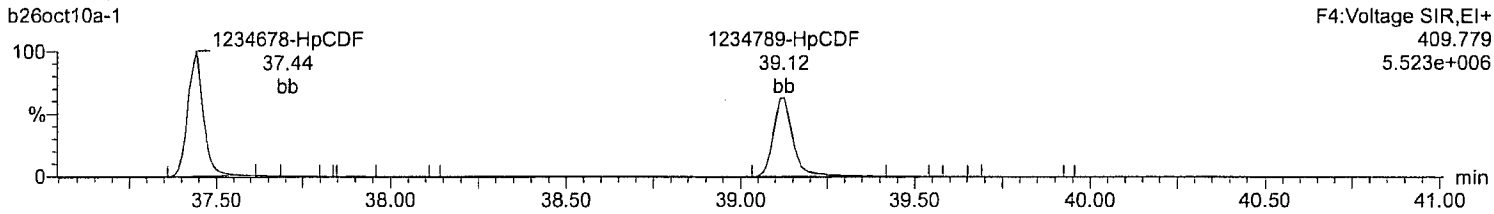
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

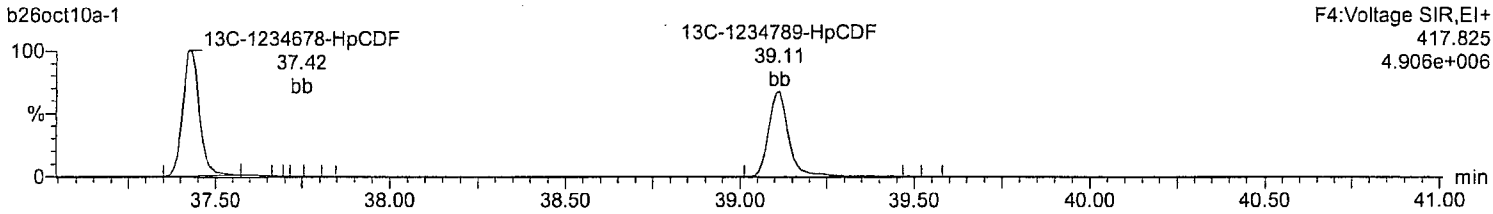
Total-heptafurans



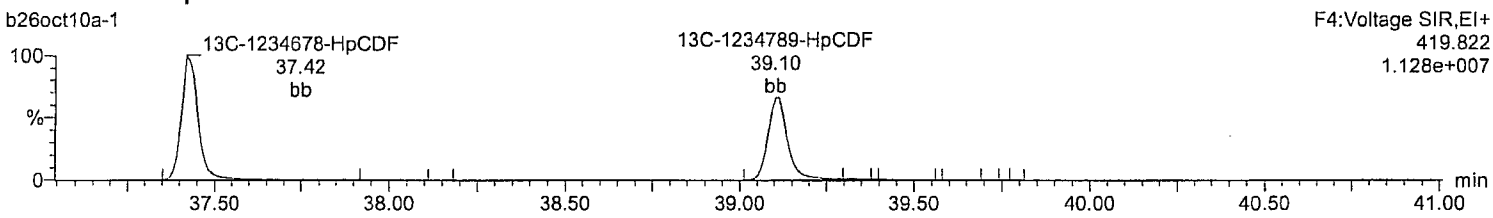
Total-heptafurans



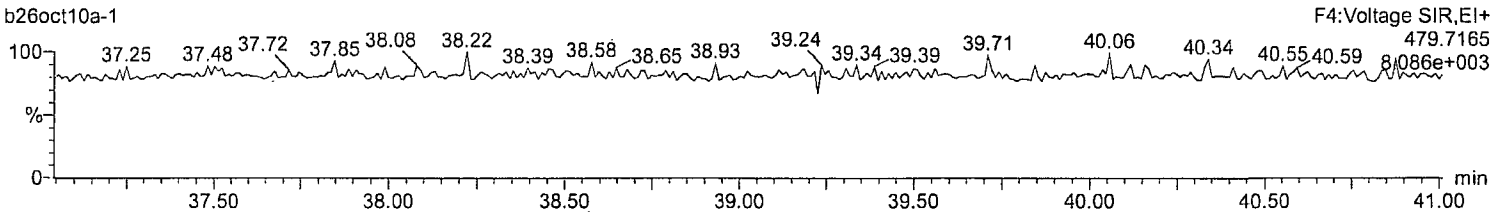
13C-1234678-HpCDF



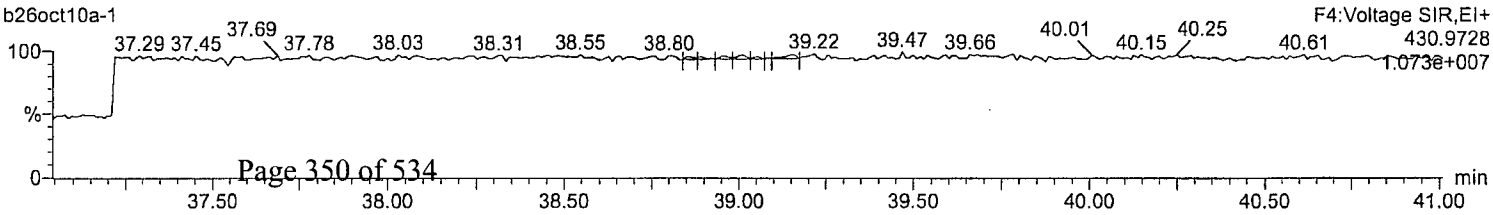
13C-1234678-HpCDF



NoDPE



Lock Mass F4



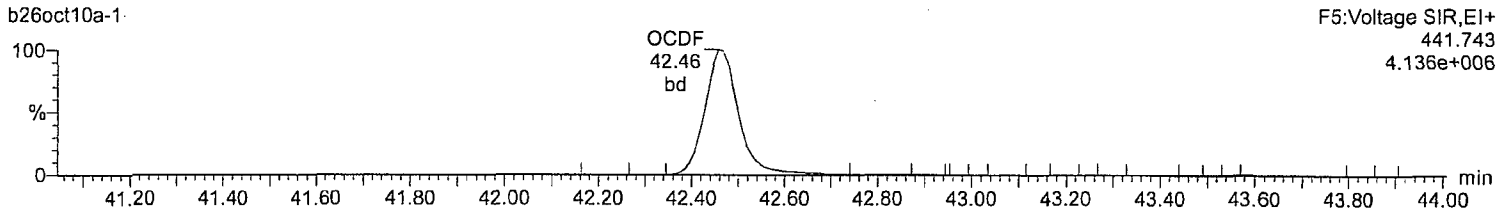
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-1.qld

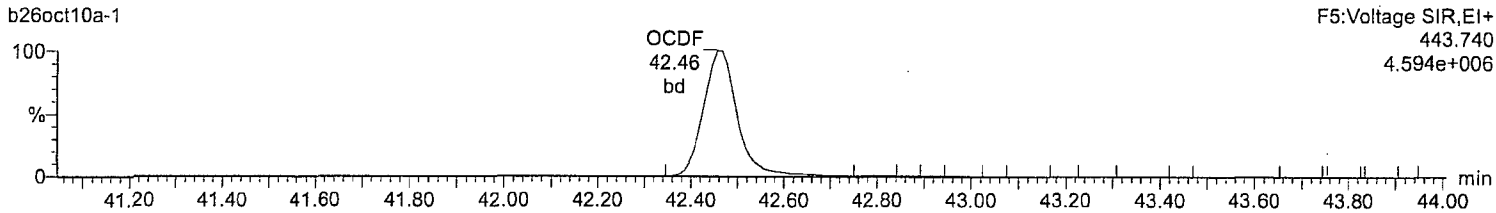
Last Altered: Thursday, October 28, 2010 08:35:52 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:38:16 Eastern Standard Time

Name: b26oct10a-1, Date: 26-Oct-2010, Time: 17:34:31, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

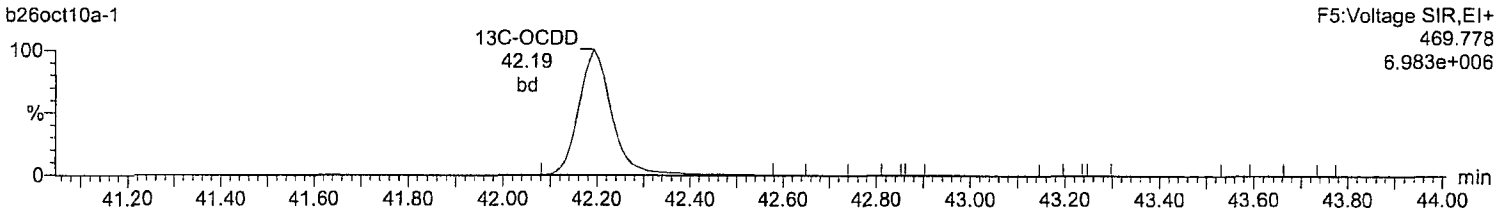
OCDF



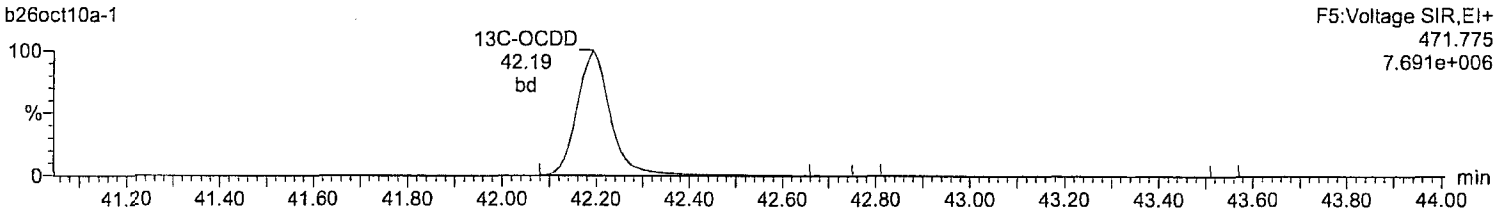
OCDF



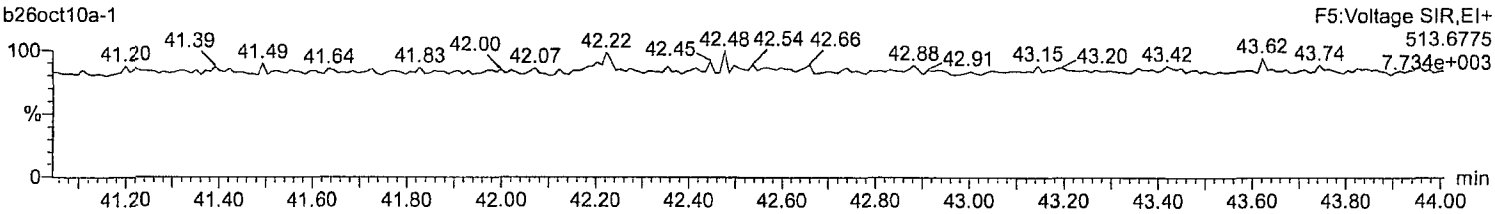
13C-OCDD



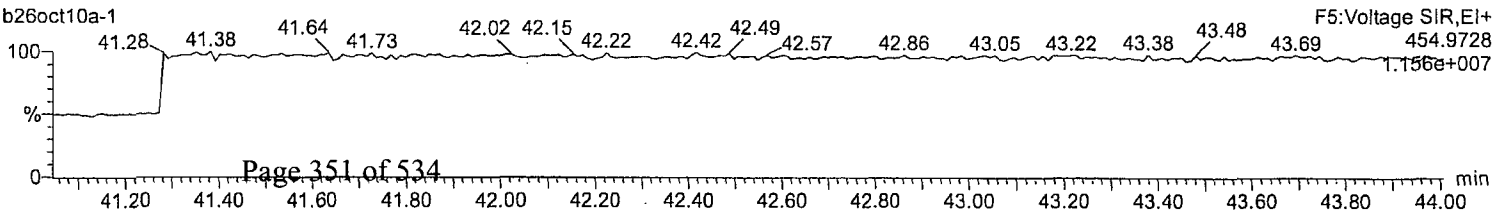
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.65e4	5.92e4	1.06e5	29.38	1.001	0.79	NO	11.487	0.0884	1.062	0.925	14.9	5.01e5	1410	355.2	6.22e5	1352	459.9	db
2	12378-PeCDD	2.67e5	1.75e5	4.42e5	33.19	1.000	1.53	NO	52.073	0.0941	1.033	0.991	4.1	6.28e6	3058	2054.2	4.08e6	3113	1311.3	bb
3	123478-HxCDD	2.18e5	1.73e5	3.91e5	35.56	1.000	1.26	NO	51.642	0.172	1.037	1.004	3.3	4.45e6	5003	889.9	3.56e6	3885	915.6	bd
4	123678-HxCDD	2.41e5	1.91e5	4.32e5	35.64	1.000	1.26	NO	53.225	0.176	0.977	0.918	6.4	4.47e6	5003	893.2	3.58e6	3885	921.0	dd
5	123789-HxCDD	2.22e5	1.80e5	4.03e5	35.85	1.006	1.23	NO	52.348	0.178	0.983	0.939	4.7	3.94e6	5003	787.6	3.18e6	3885	817.3	db
6	1234678-HpCDD	1.65e5	1.57e5	3.22e5	38.55	1.000	1.05	NO	52.002	0.224	1.025	0.986	4.0	2.53e6	3508	720.5	2.40e6	3353	716.5	bb
7	OCDD	2.65e5	3.01e5	5.66e5	42.21	1.000	0.88	NO	107.114	0.331	1.051	0.981	7.1	3.01e6	2637	1140.6	3.45e6	3979	867.2	bd
8	2378-TCDF	6.66e4	8.66e4	1.53e5	28.45	1.001	0.77	NO	9.856	0.0588	0.925	0.939	-1.4	7.25e5	1498	484.3	9.25e5	1680	550.8	bb
9	12378-PeCDF	4.18e5	2.73e5	6.91e5	32.43	1.000	1.53	NO	52.341	0.0825	0.930	0.888	4.7	9.86e6	3646	2704.2	6.35e6	5053	1257.2	bd
10	23478-PeCDF	4.18e5	2.70e5	6.88e5	33.01	1.000	1.55	NO	51.188	0.0833	0.971	0.949	2.4	9.83e6	3646	2696.5	6.42e6	5053	1271.5	bb
11	123478-HxCDF	3.16e5	2.55e5	5.71e5	34.91	1.000	1.24	NO	51.061	0.162	1.127	1.104	2.1	6.83e6	7121	958.8	5.37e6	5584	960.8	bd
12	123678-HxCDF	3.58e5	2.94e5	6.52e5	35.00	1.000	1.22	NO	52.664	0.161	1.104	1.048	5.3	7.20e6	7121	1011.4	5.80e6	5584	1038.3	db
13	234678-HxCDF	3.26e5	2.63e5	5.89e5	35.45	1.000	1.24	NO	50.879	0.176	1.103	1.084	1.8	6.49e6	7121	911.6	5.19e6	5584	930.1	bb
14	123789-HxCDF	2.76e5	2.33e5	5.09e5	36.12	1.000	1.19	NO	51.423	0.221	1.046	1.017	2.8	4.77e6	7121	669.3	4.00e6	5584	717.1	bb
15	1234678-HpCDF	2.69e5	2.59e5	5.29e5	37.44	1.000	1.04	NO	51.636	0.153	1.303	1.262	3.3	4.62e6	5286	874.9	4.50e6	3371	1335.1	bb
16	1234789-HpCDF	2.08e5	2.08e5	4.15e5	39.11	1.000	1.00	NO	53.364	0.238	1.317	1.234	6.7	3.00e6	5286	566.6	2.91e6	3371	861.7	bb
17	OCDF	3.22e5	3.59e5	6.81e5	42.46	1.006	0.89	NO	105.625	0.212	1.264	1.196	5.6	3.62e6	2984	1213.5	4.04e6	2190	1846.6	bd
18	13C-2378-TCDD	4.37e5	5.58e5	9.95e5	29.35	1.025	0.78	NO	93.449	0.118	1.035	1.107	-6.6	4.46e6	2560	1741.2	5.62e6	1969	2853.3	bb
19	13C-12378-PeCDD	5.22e5	3.35e5	8.57e5	33.18	1.159	1.56	NO	106.974	0.181	0.891	0.833	7.0	1.21e7	2736	4417.8	7.64e6	2482	3077.2	bb
20	13C-123478-HxCDD	4.21e5	3.33e5	7.55e5	35.55	0.992	1.26	NO	109.148	0.159	0.932	0.854	9.1	8.63e6	3377	2555.6	6.79e6	3212	2112.8	bd
21	13C-123678-HxCDD	4.93e5	3.92e5	8.84e5	35.63	0.994	1.26	NO	99.782	0.124	1.092	1.094	-0.2	9.18e6	3377	2717.9	7.36e6	3212	2289.9	dd
22	13C-1234678-HpCDD	3.22e5	3.07e5	6.29e5	38.54	1.075	1.05	NO	102.938	0.195	0.776	0.754	2.9	4.78e6	3530	1353.5	4.62e6	3635	1270.4	bb
23	13C-OCDD	5.09e5	5.69e5	1.08e6	42.19	1.177	0.90	NO	202.468	0.170	0.665	0.657	1.2	5.77e6	2851	2025.1	6.39e6	2581	2477.3	bd
24	13C-2378-TCDF	7.32e5	9.24e5	1.66e6	28.42	0.993	0.79	NO	99.873	0.0913	1.722	1.724	-0.1	7.64e6	1877	4068.7	9.70e6	3584	2706.9	bb
25	13C-12378-PeCDF	9.10e5	5.76e5	1.49e6	32.42	1.132	1.58	NO	109.269	0.237	1.546	1.415	9.3	2.18e7	6587	3310.2	1.38e7	5023	2741.0	bd
26	13C-23478-PeCDF	8.66e5	5.51e5	1.42e6	33.00	1.153	1.57	NO	109.909	0.250	1.473	1.340	9.9	2.02e7	6587	3062.8	1.30e7	5023	2582.8	bb
27	13C-123478-HxCDF	3.47e5	6.65e5	1.01e6	34.90	0.974	0.52	NO	110.854	0.198	1.250	1.127	10.9	7.33e6	5618	1304.9	1.42e7	5258	2706.5	bd
28	13C-123678-HxCDF	4.08e5	7.72e5	1.18e6	34.99	0.976	0.53	NO	98.881	0.152	1.457	1.473	-1.1	7.79e6	5618	1386.8	1.49e7	5258	2840.8	db
29	13C-234678-HxCDF	3.75e5	6.94e5	1.07e6	35.44	0.989	0.54	NO	103.150	0.175	1.320	1.279	3.2	7.02e6	5618	1249.7	1.37e7	5258	2605.0	bb
30	13C-123789-HxCDF	3.36e5	6.37e5	9.73e5	36.11	1.007	0.53	NO	108.852	0.203	1.202	1.104	8.9	5.87e6	5618	1044.1	1.12e7	5258	2133.4	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-1234678-HpCDF	2.49e5	5.62e5	8.11e5	37.43	1.044	0.44	NO	104.098	0.173	1.001	0.962	4.1	4.14e6	3712	1116.2	9.11e6	4363	2089.0	bd
32	13C-1234789-HpCDF	1.97e5	4.34e5	6.31e5	39.11	1.091	0.45	NO	104.102	0.222	0.779	0.748	4.1	2.77e6	3712	745.2	6.25e6	4363	1433.8	bb
33	13C-1234-TCDD	4.27e5	5.34e5	9.62e5	28.63	0.000	0.80	NO	100.000	0.131	1.000	1.000	0.0	4.63e6	2560	1806.7	5.72e6	1969	2902.8	bb
34	13C-123789-HxCDD	4.50e5	3.60e5	8.10e5	35.84	0.000	1.25	NO	100.000	0.136	1.000	1.000	0.0	8.11e6	3377	2401.4	6.39e6	3212	1989.3	db
35	37Cl-2378-TCDD	1.11e5		1.11e5	29.38	1.026			10.179	0.0299	1.151	1.130	1.8	1.15e6	1174	976.1				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

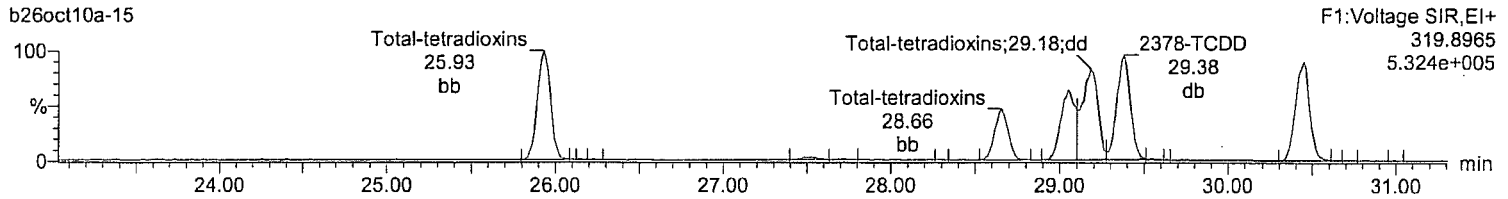
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

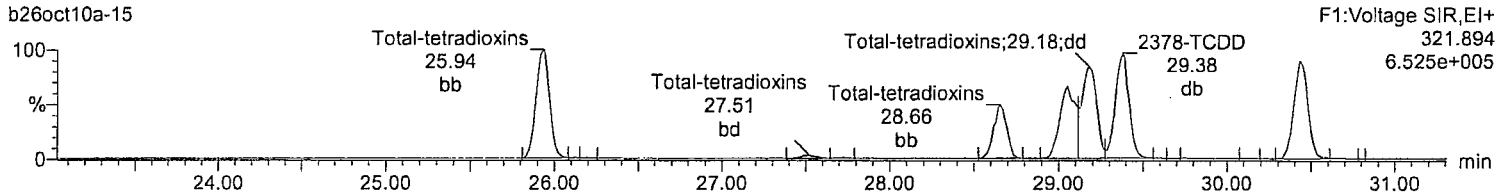
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

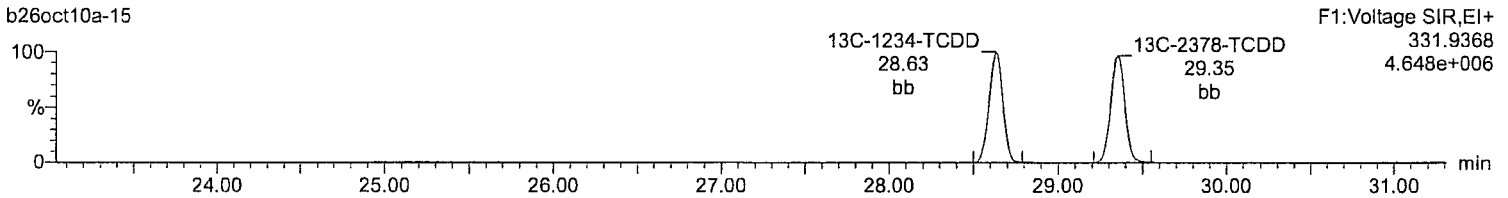
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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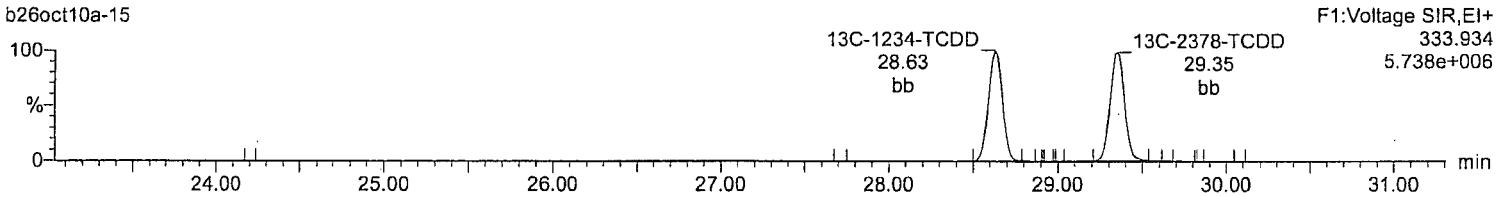

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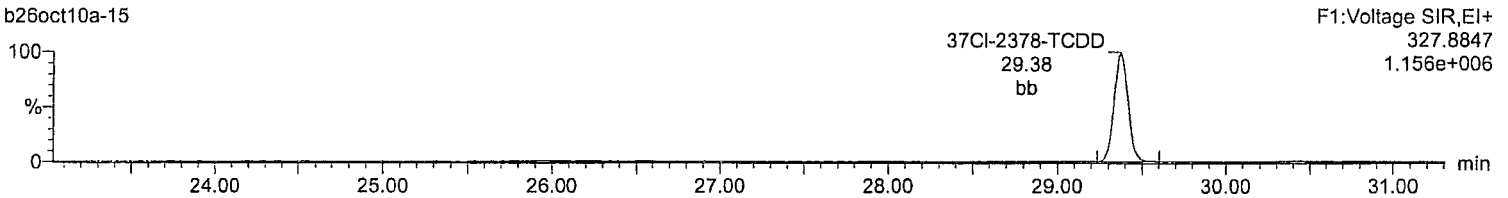
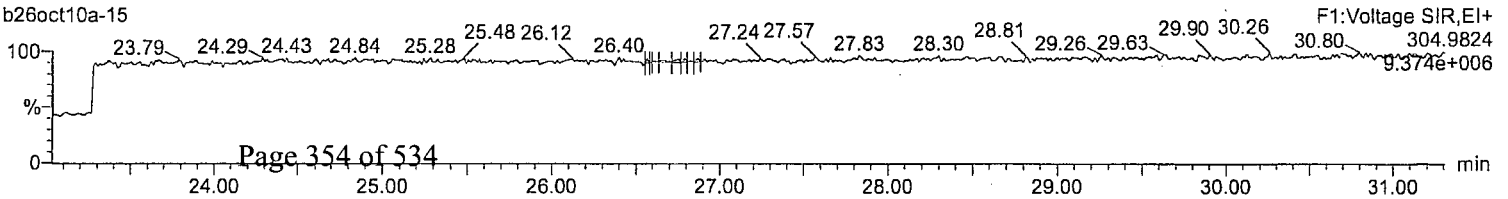


Lock Mass F1



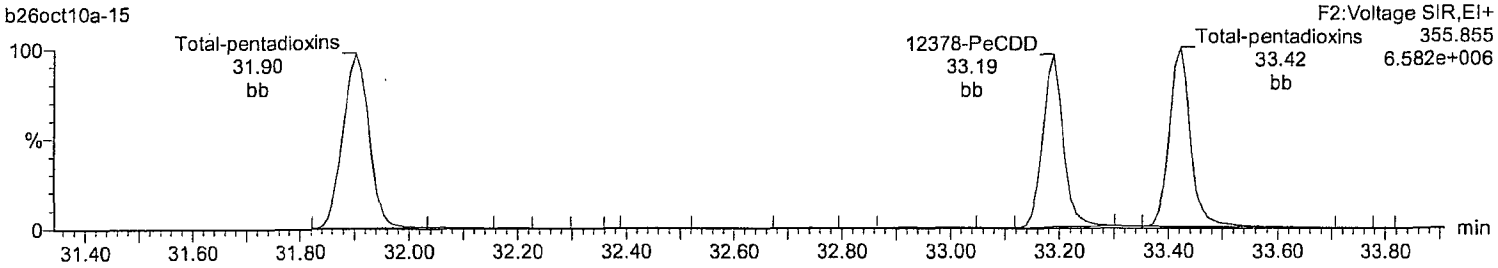
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

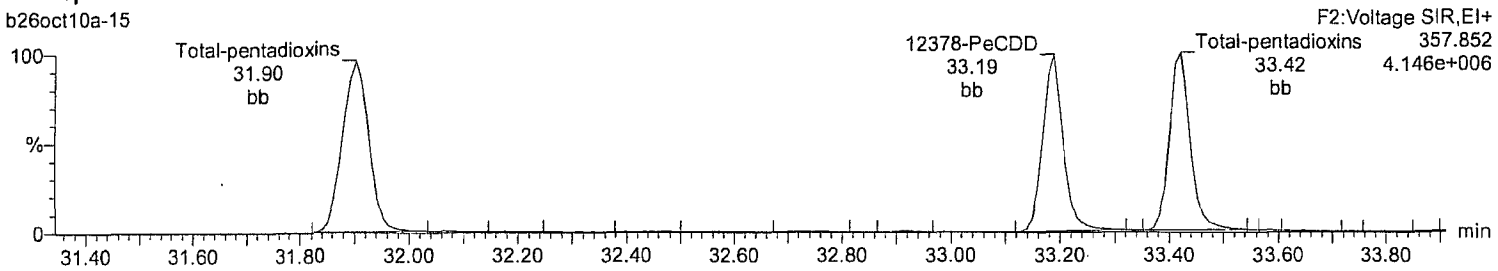
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

Total-pentadioxins



Total-pentadioxins



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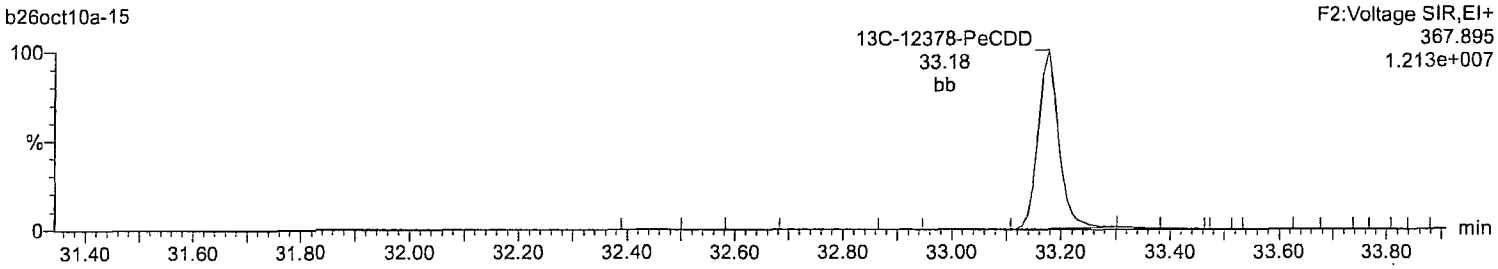

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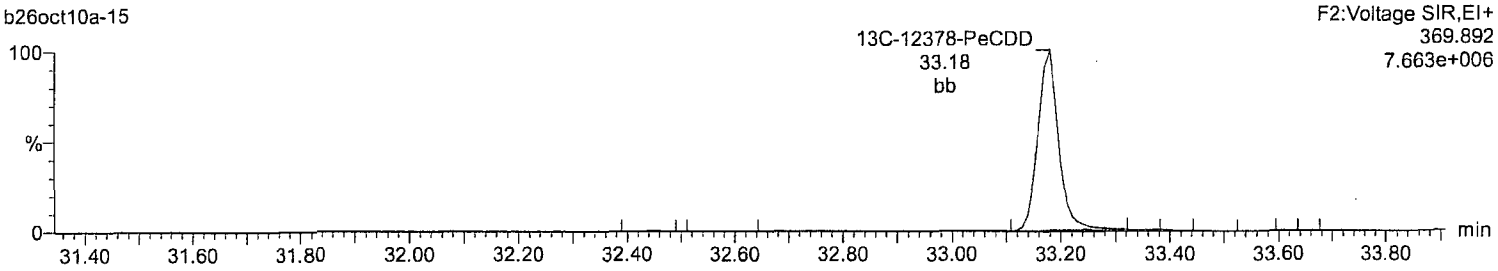
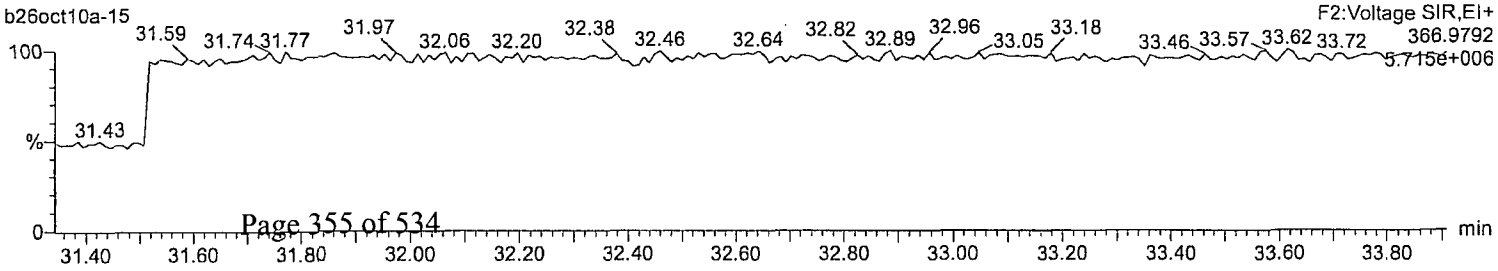


Lock Mass F2



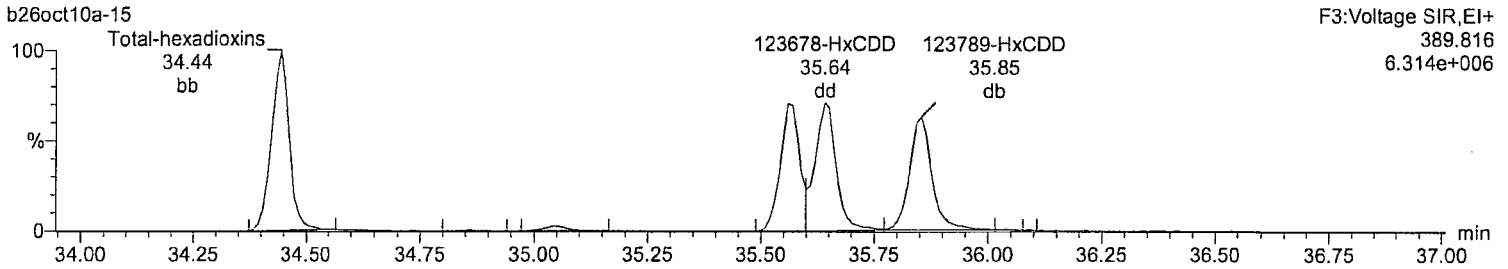
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

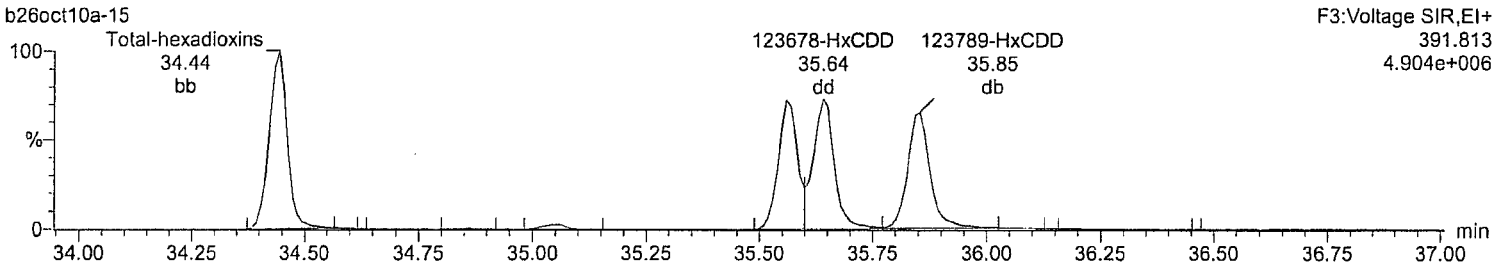
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

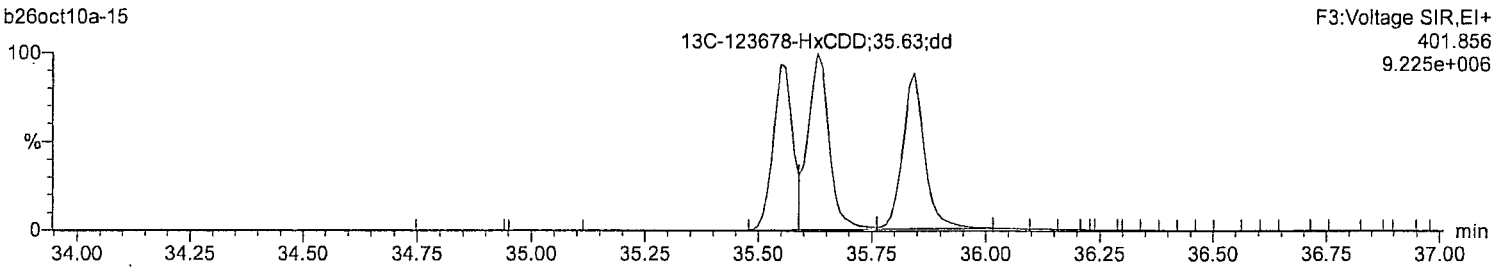
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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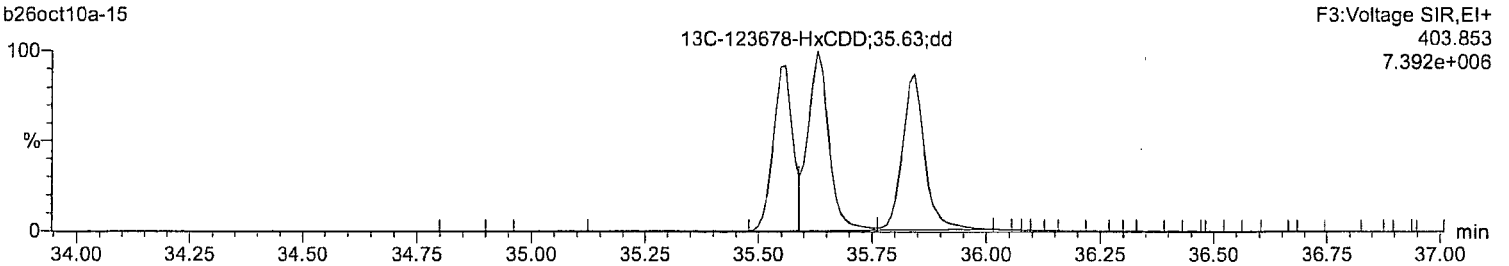
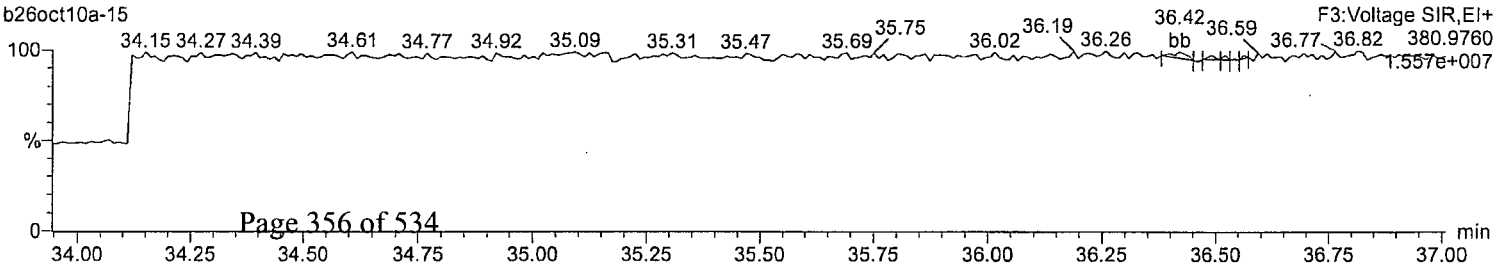


Lock Mass F3



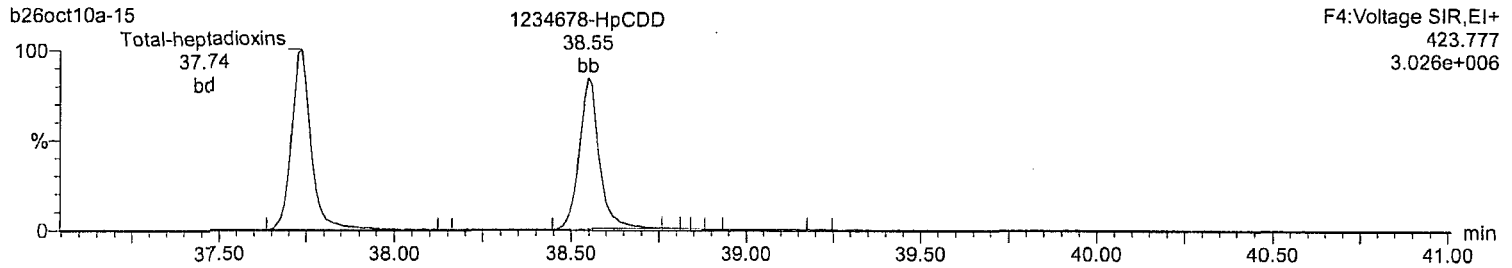
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

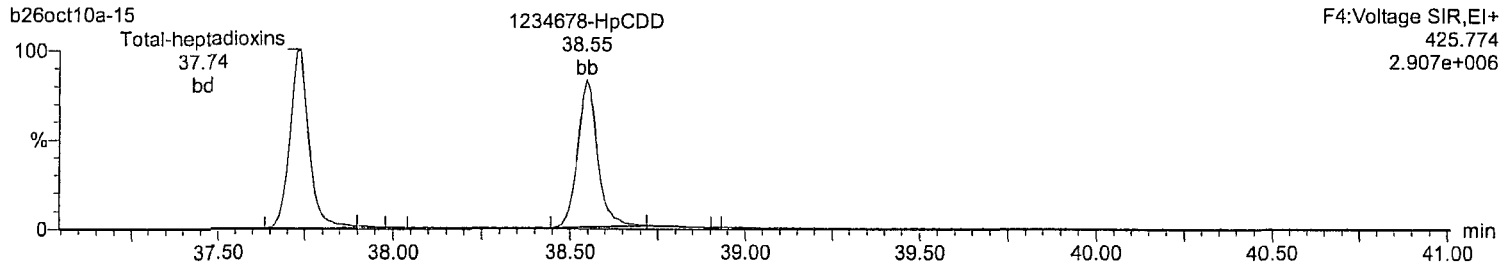
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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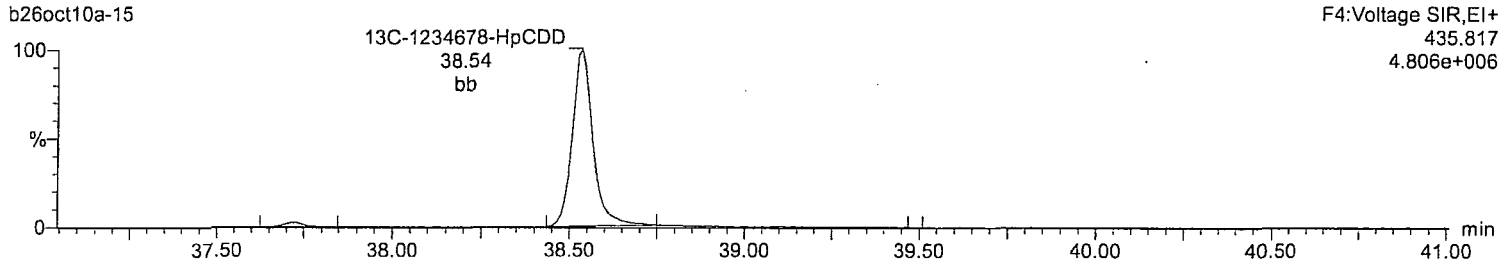

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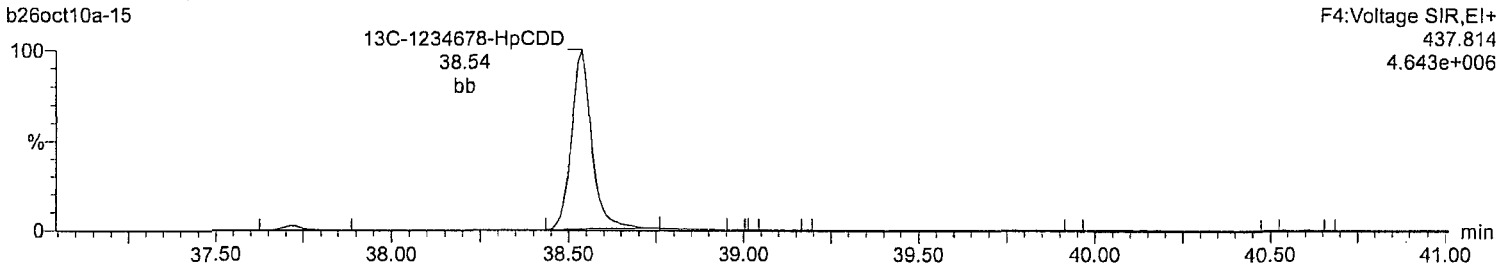
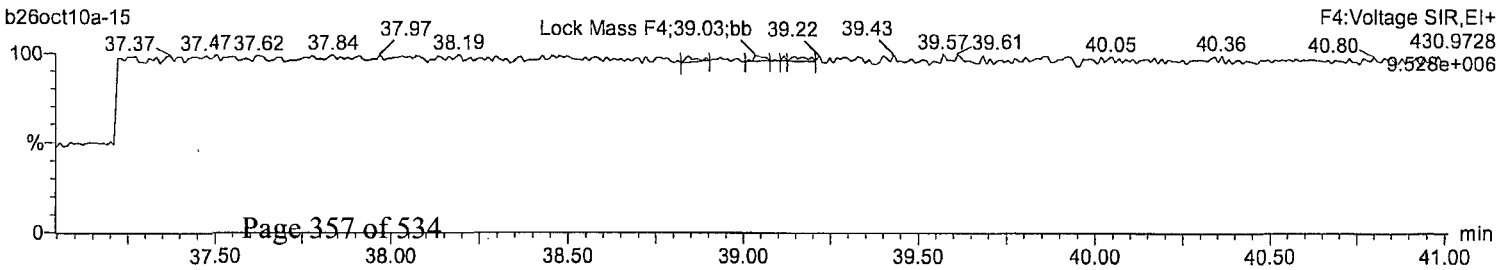


Lock Mass F4



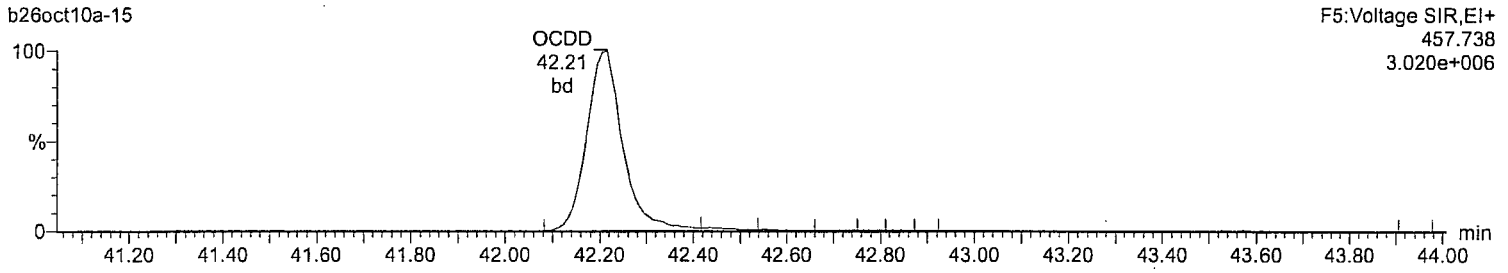
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

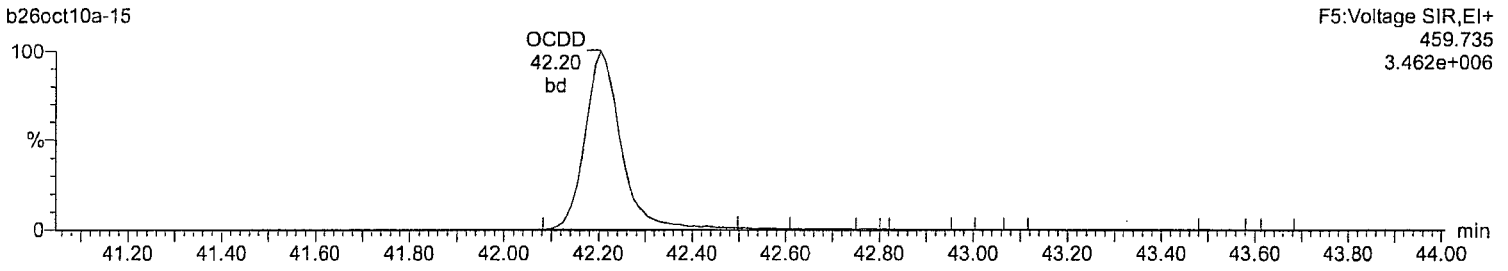
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

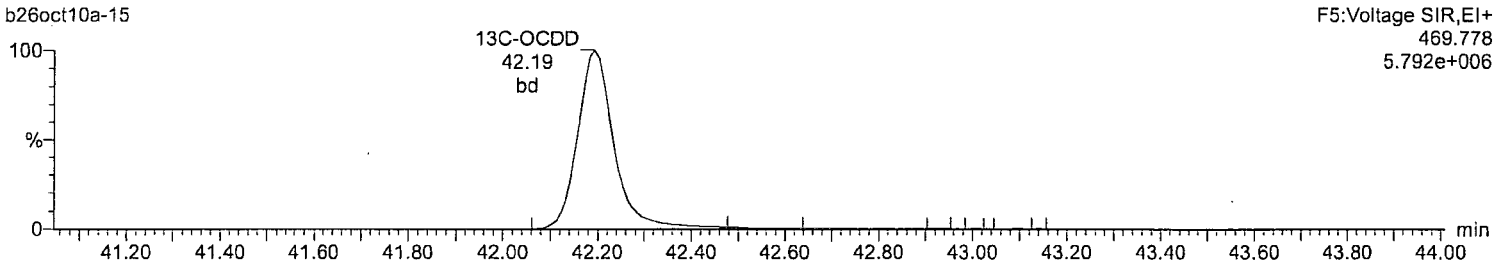
OCDD



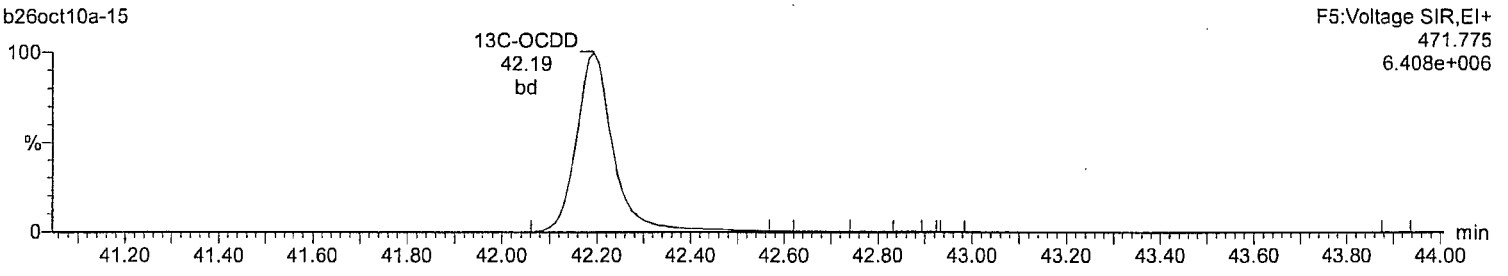
OCDD



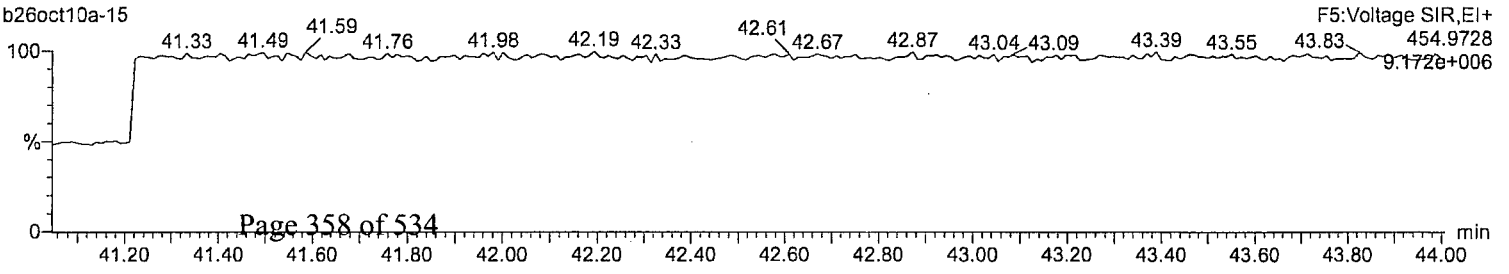
13C-OCDD



13C-OCDD



Lock Mass F5



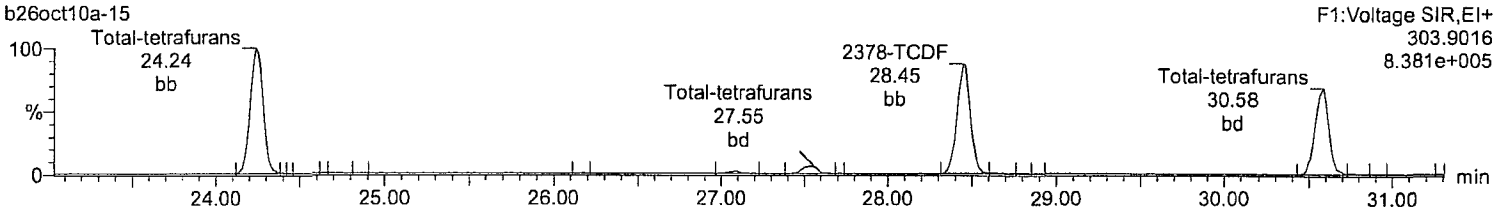
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

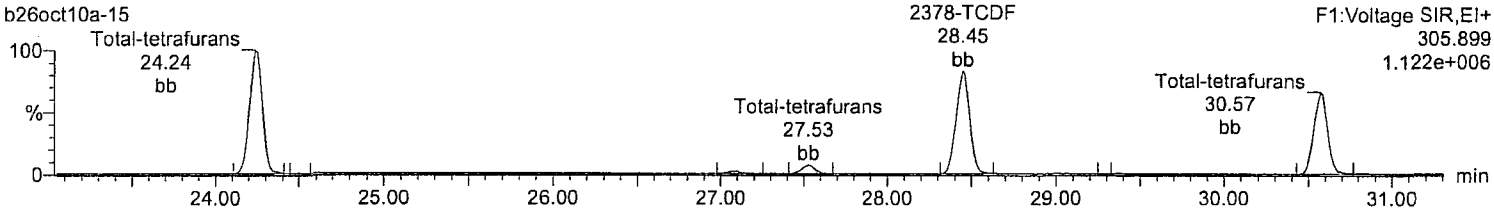
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

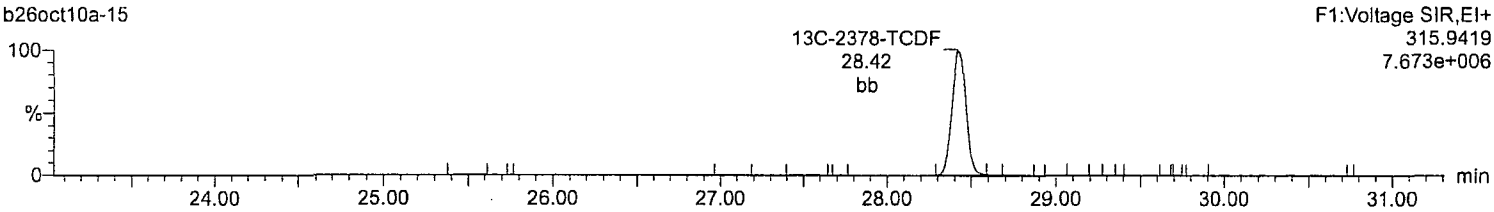
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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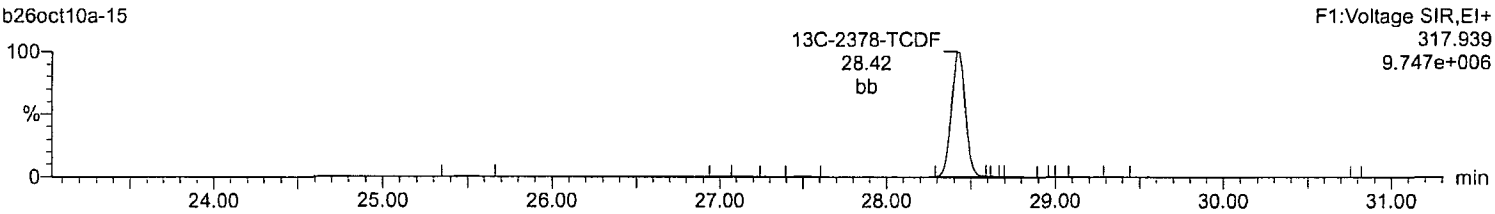
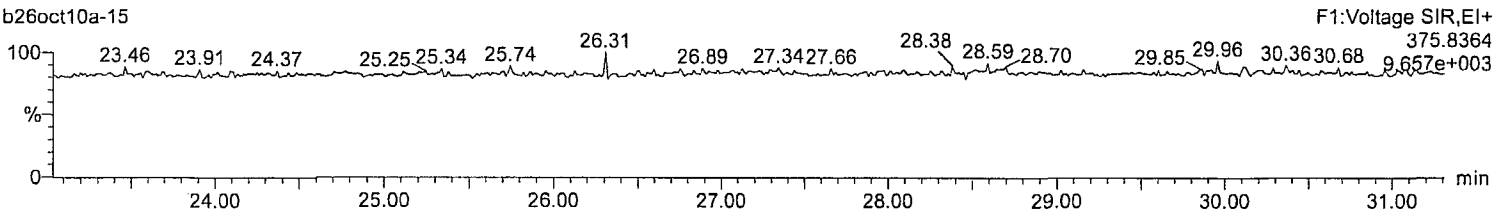
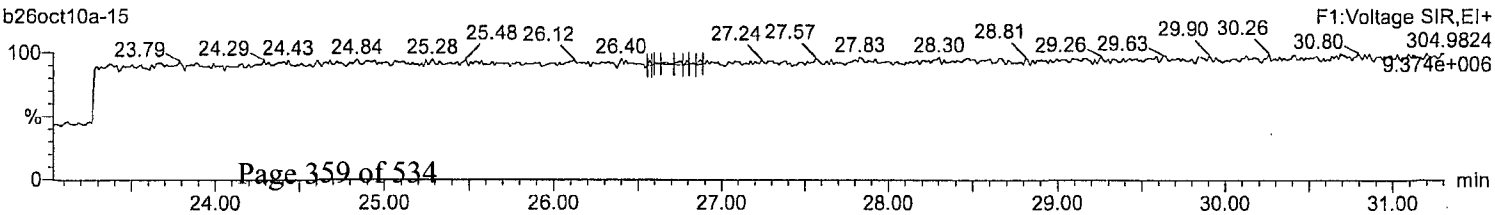


HxDPE



Lock Mass F1



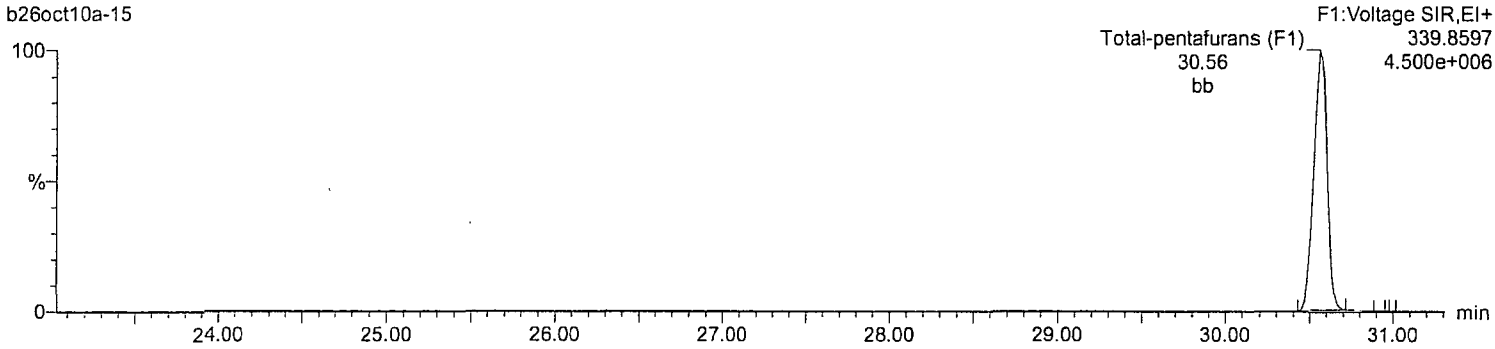
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

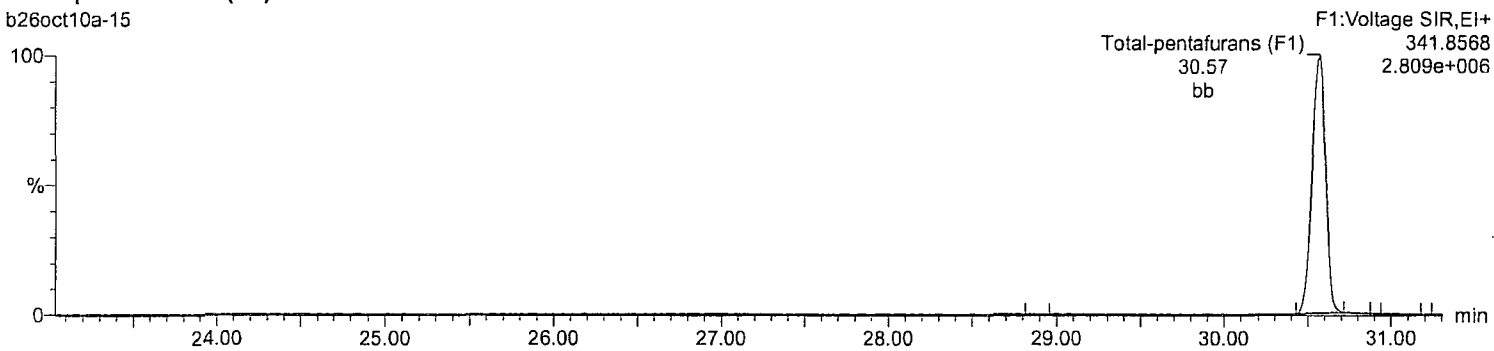
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

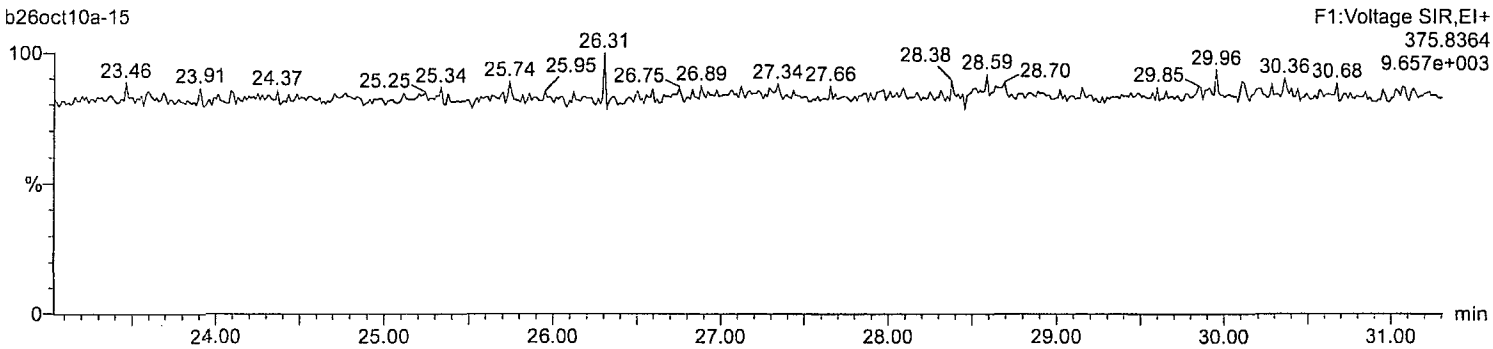
Total-pentafurans (F1)



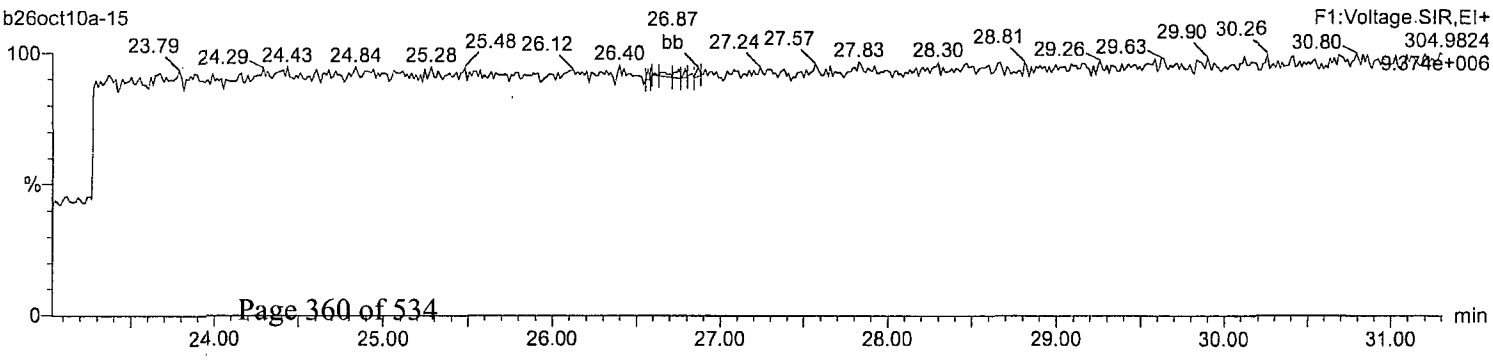
Total-pentafurans (F1)



HxDPE



Lock Mass F1



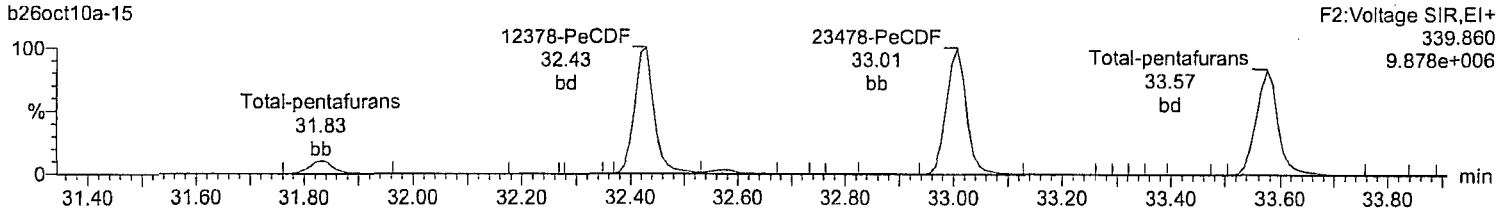
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

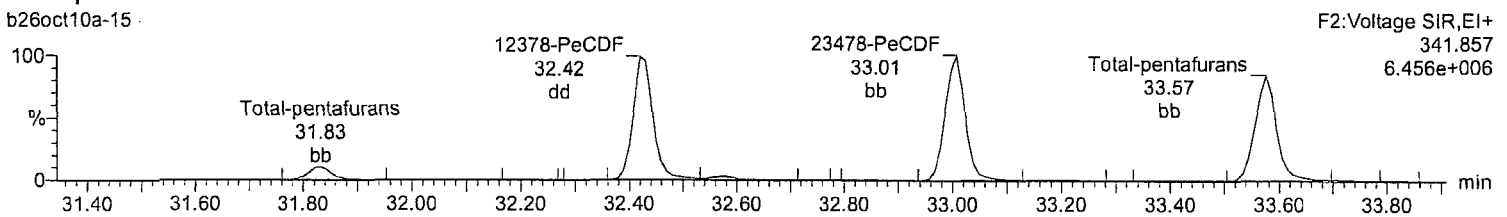
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

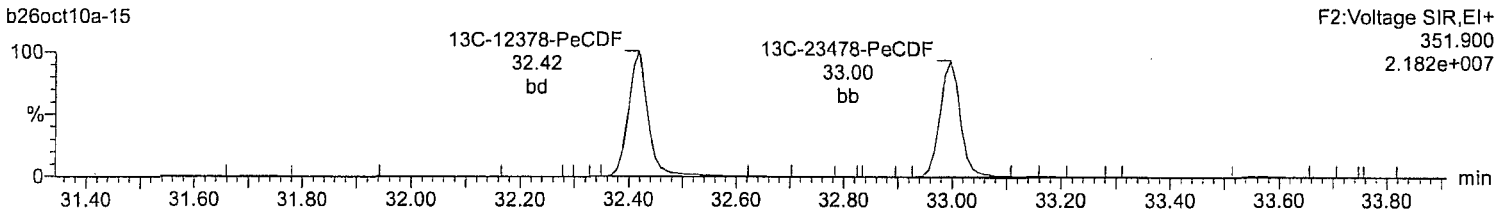
Total-pentafurans



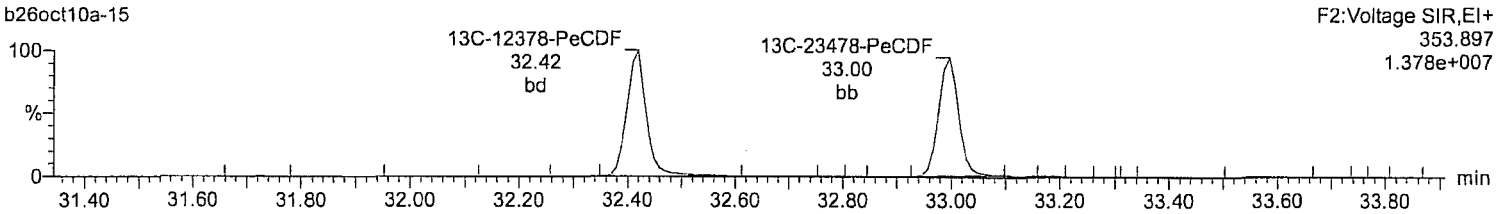
Total-pentafurans



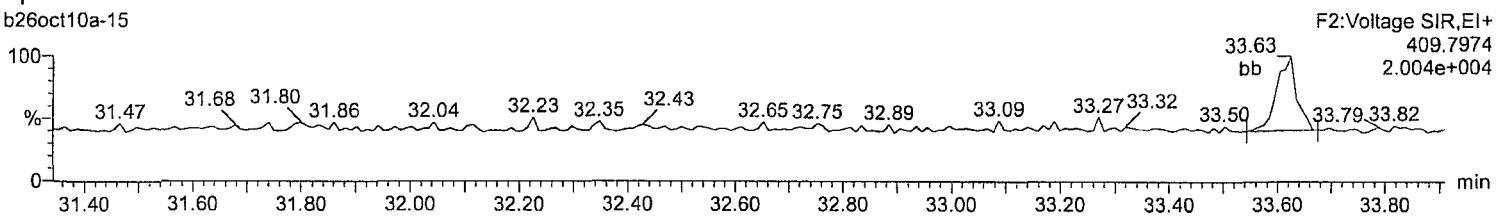
13C-12378-PeCDF



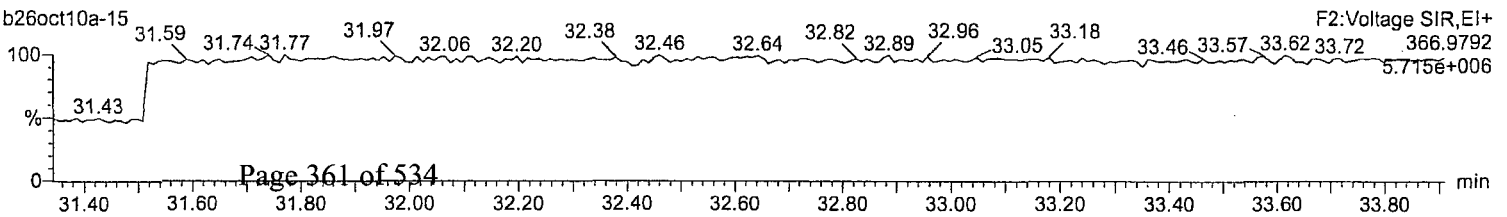
13C-12378-PeCDF



HpDPE



Lock Mass F2



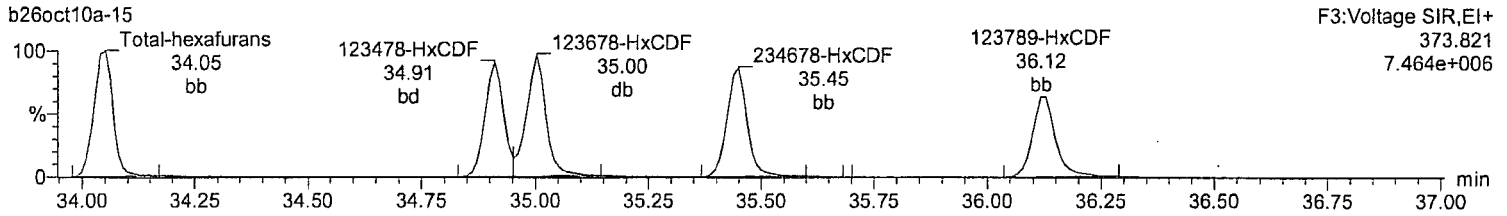
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

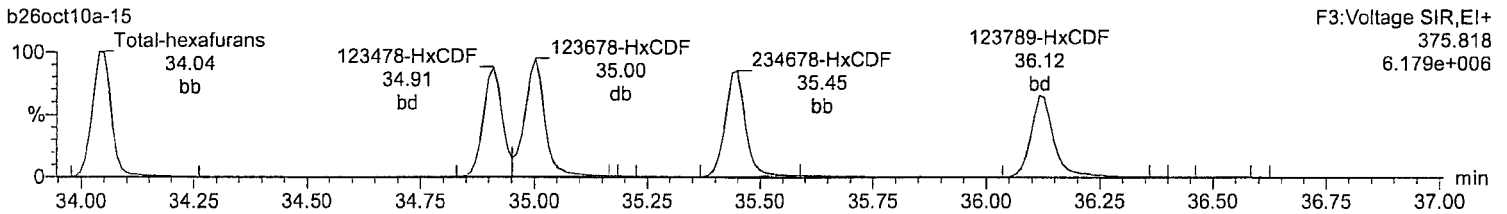
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

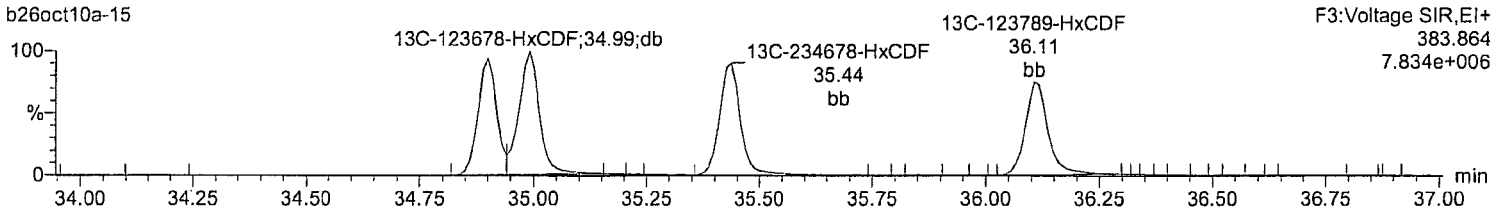
Total-hexafurans



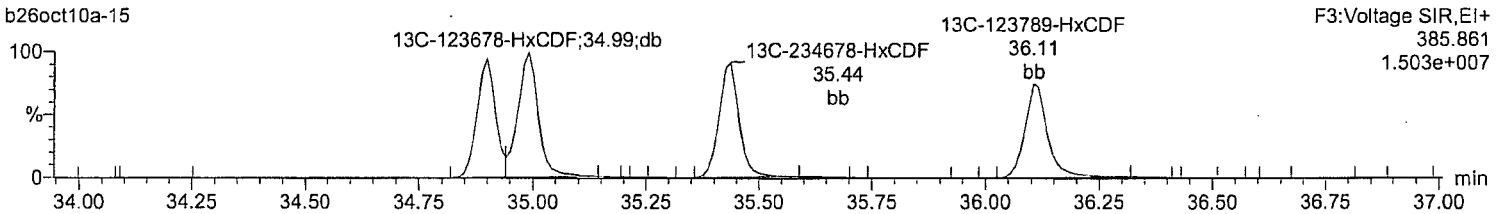
Total-hexafurans



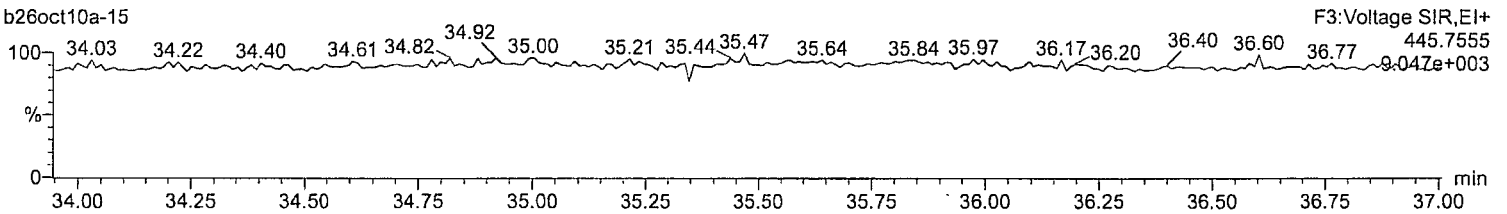
13C-123478-HxCDF



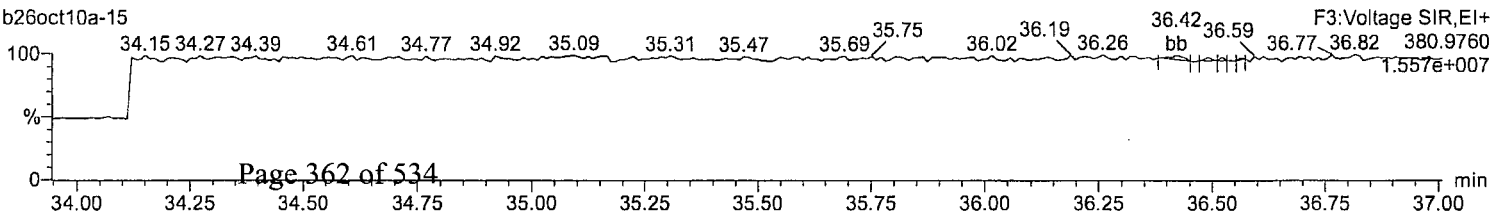
13C-123478-HxCDF



OcDPE



Lock Mass F3



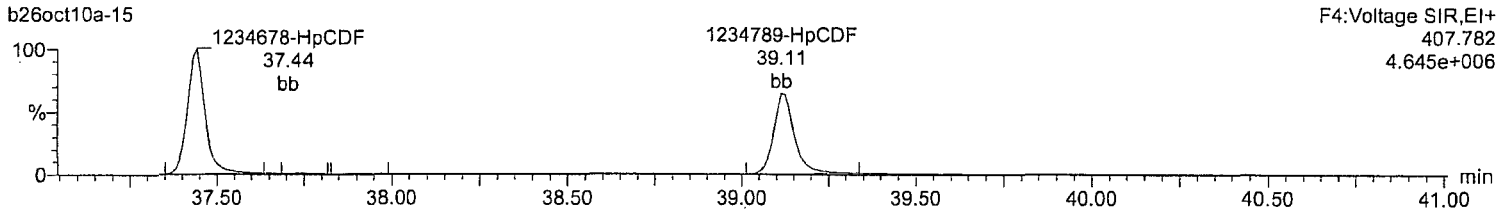
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

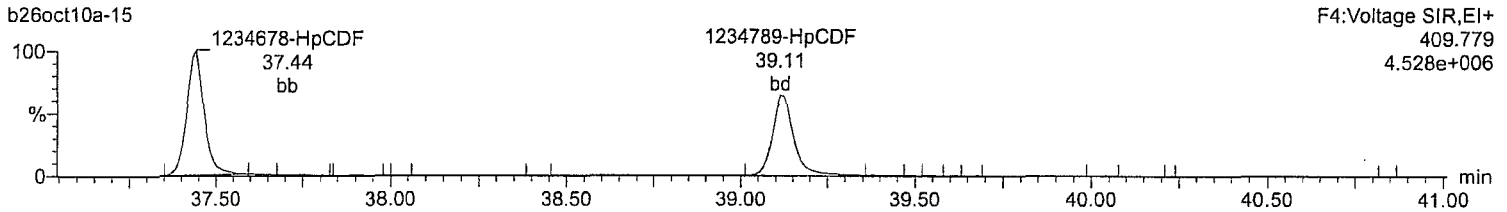
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

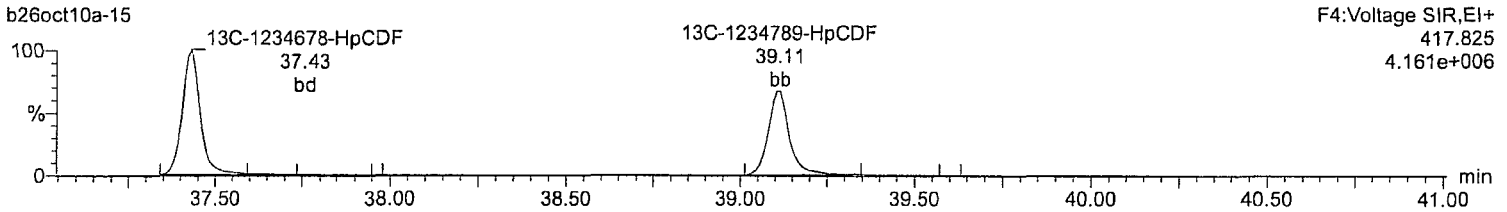
Total-heptafurans



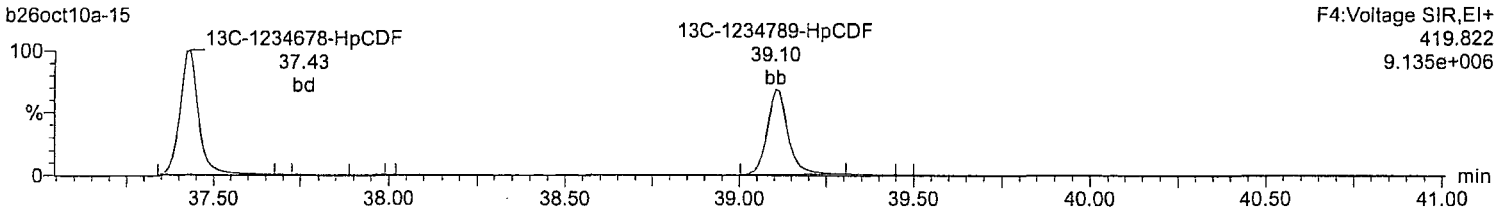
Total-heptafurans



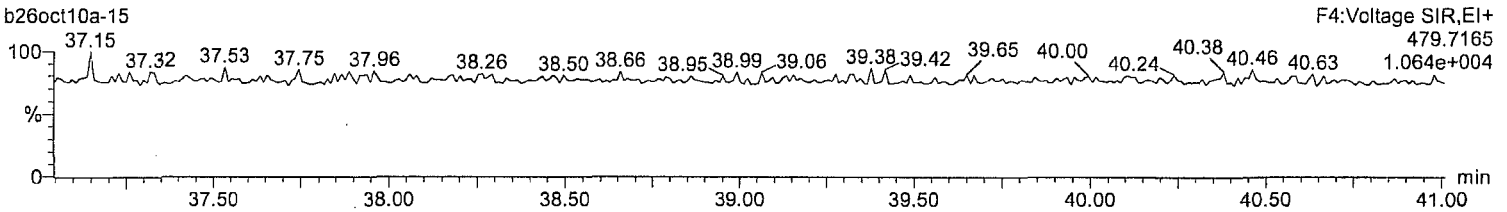
13C-1234678-HpCDF



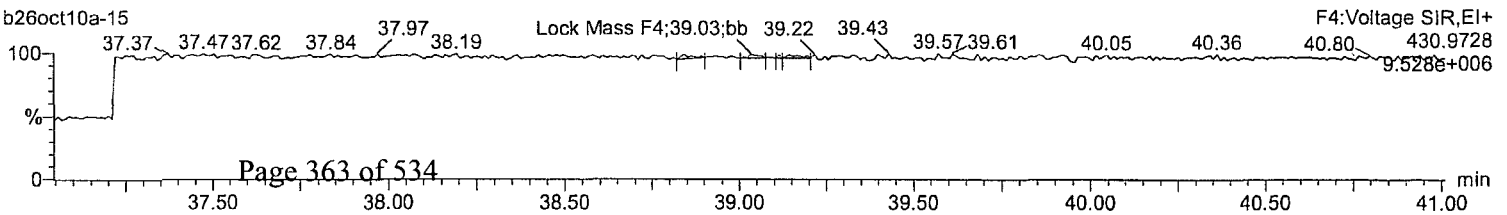
13C-1234678-HpCDF



NoDPE



Lock Mass F4



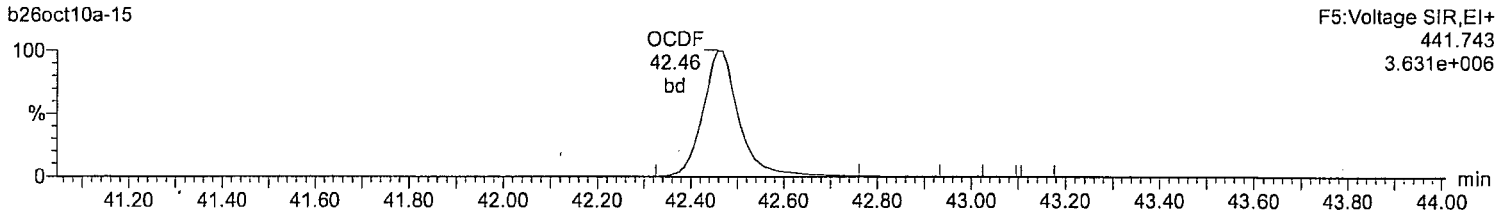
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a-15.qld

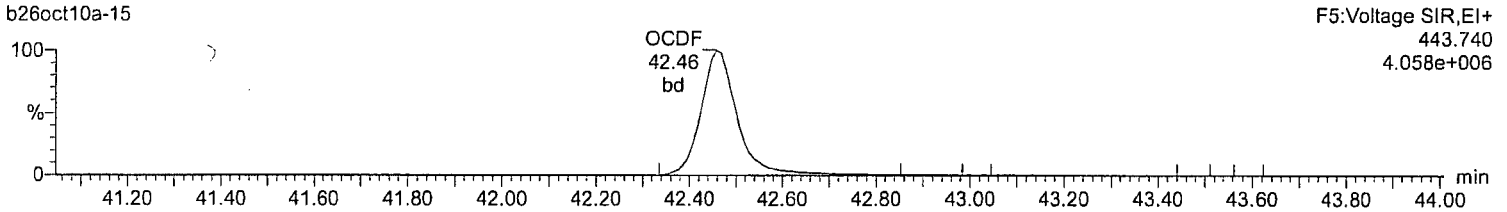
Last Altered: Thursday, October 28, 2010 08:40:49 Eastern Standard Time
Printed: Thursday, October 28, 2010 08:41:35 Eastern Standard Time

Name: b26oct10a-15, Date: 27-Oct-2010, Time: 04:17:43, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a, Task: HRP763_1, User: MJC

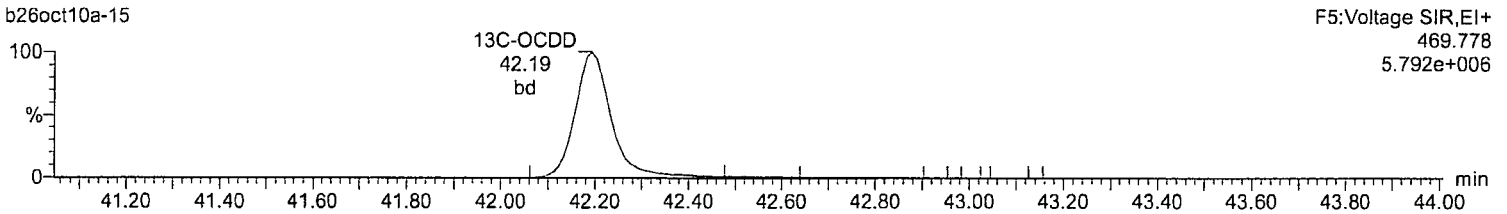
OCDF



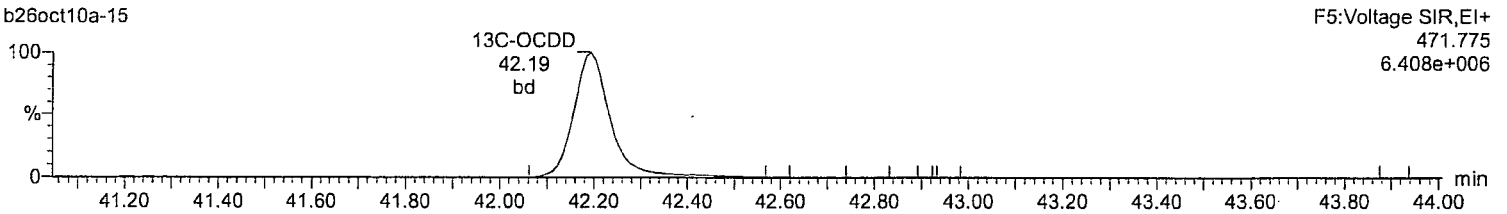
OCDF



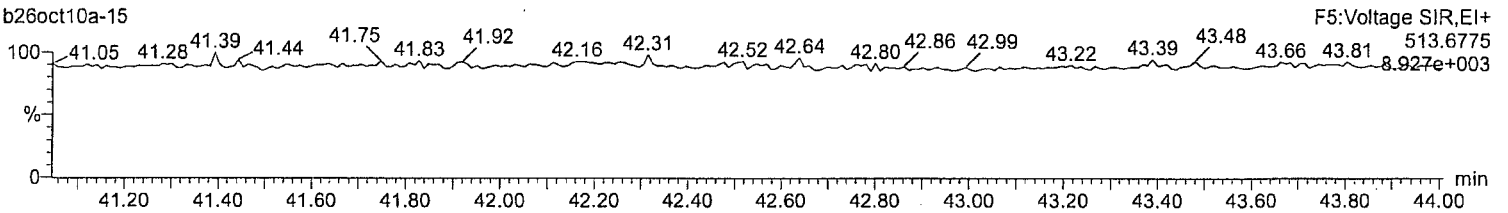
13C-OCDD



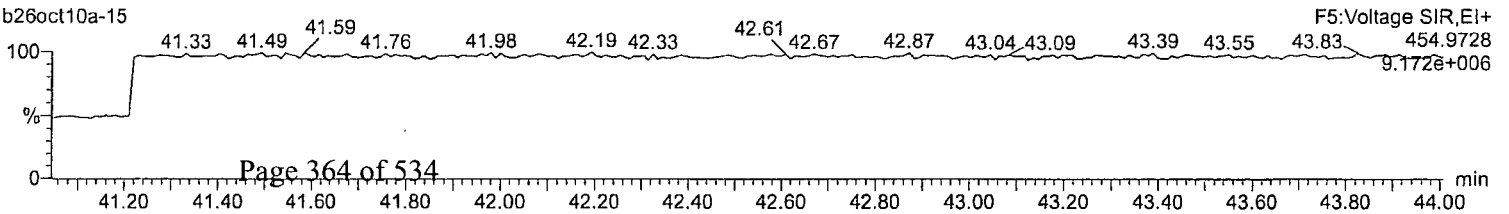
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	5.04e4	6.44e4	1.15e5	29.38	1.001	0.78	NO	11.362	0.0796	1.051	0.925	13.6	5.11e5	1422	359.1	6.25e5	1306	478.9	db
2	12378-PeCDD	2.85e5	1.84e5	4.69e5	33.19	1.000	1.55	NO	52.312	0.121	1.037	0.991	4.6	6.65e6	4235	1570.6	4.36e6	3965	1100.4	bb
3	123478-HxCDD	2.23e5	1.79e5	4.02e5	35.57	1.000	1.24	NO	51.667	0.153	1.037	1.004	3.3	4.61e6	4555	1011.9	3.61e6	3500	1031.9	bd
4	123678-HxCDD	2.60e5	2.06e5	4.66e5	35.64	1.000	1.26	NO	53.933	0.160	0.990	0.918	7.9	4.72e6	4555	1036.8	3.83e6	3500	1093.6	dd
5	123789-HxCDD	2.33e5	1.90e5	4.23e5	35.85	1.006	1.23	NO	52.476	0.160	0.985	0.939	5.0	4.18e6	4555	917.8	3.37e6	3500	961.4	db
6	1234678-HpCDD	1.61e5	1.55e5	3.16e5	38.56	1.001	1.04	NO	50.947	0.233	1.005	0.986	1.9	2.37e6	3423	693.7	2.36e6	3530	668.0	bb
7	OCDD	2.60e5	2.88e5	5.48e5	42.20	1.000	0.90	NO	106.879	0.298	1.049	0.981	6.9	2.87e6	2611	1100.6	3.27e6	2883	1132.6	bd
8	2378-TCDF	7.43e4	9.54e4	1.70e5	28.45	1.000	0.78	NO	9.967	0.0574	0.936	0.939	-0.3	7.82e5	1626	480.8	1.06e6	1845	576.1	bb
9	12378-PeCDF	4.39e5	2.89e5	7.28e5	32.43	1.000	1.52	NO	53.551	0.0932	0.951	0.888	7.1	1.05e7	5175	2030.4	6.93e6	4846	1430.2	bd
10	23478-PeCDF	4.40e5	2.87e5	7.27e5	33.01	1.000	1.54	NO	50.814	0.0871	0.964	0.949	1.6	1.06e7	5175	2044.4	6.85e6	4846	1413.9	bb
11	123478-HxCDF	3.24e5	2.64e5	5.87e5	34.91	1.000	1.23	NO	50.772	0.167	1.121	1.104	1.5	6.95e6	7507	926.4	5.61e6	6596	850.8	bd
12	123678-HxCDF	3.80e5	3.19e5	6.99e5	35.00	1.000	1.19	NO	51.709	0.166	1.084	1.048	3.4	7.12e6	7507	948.9	5.86e6	6596	888.7	db
13	234678-HxCDF	3.37e5	2.77e5	6.14e5	35.45	1.000	1.21	NO	49.904	0.178	1.081	1.084	-0.2	6.52e6	7507	868.1	5.42e6	6596	821.7	bb
14	123789-HxCDF	2.99e5	2.33e5	5.32e5	36.13	1.001	1.28	NO	51.835	0.246	1.054	1.017	3.7	4.97e6	7507	661.7	4.03e6	6596	610.3	bd
15	1234678-HpCDF	2.75e5	2.66e5	5.41e5	37.44	1.000	1.03	NO	51.035	0.140	1.288	1.262	2.1	4.53e6	4036	1123.0	4.36e6	4120	1057.3	bb
16	1234789-HpCDF	2.06e5	2.04e5	4.10e5	39.12	1.001	1.01	NO	52.557	0.227	1.297	1.234	5.1	2.98e6	4036	737.9	2.89e6	4120	701.7	bb
17	OCDF	3.15e5	3.44e5	6.59e5	42.47	1.006	0.92	NO	105.416	0.317	1.261	1.196	5.4	3.42e6	3792	901.8	3.81e6	3331	1143.3	bd
18	13C-2378-TCDD	4.81e5	6.11e5	1.09e6	29.35	1.025	0.79	NO	93.029	0.105	1.030	1.107	-7.0	4.90e6	2324	2108.4	6.03e6	1999	3017.6	bb
19	13C-12378-PeCDD	5.53e5	3.51e5	9.04e5	33.18	1.158	1.58	NO	102.337	0.161	0.853	0.833	2.3	1.26e7	2858	4392.0	8.23e6	2139	3847.9	bb
20	13C-123478-HxCDD	4.33e5	3.42e5	7.75e5	35.56	0.992	1.27	NO	107.310	0.164	0.916	0.854	7.3	8.78e6	3559	2466.6	7.07e6	3181	2222.5	bd
21	13C-123678-HxCDD	5.28e5	4.14e5	9.42e5	35.63	0.994	1.28	NO	101.736	0.128	1.113	1.094	1.7	9.23e6	3559	2594.5	7.38e6	3181	2320.1	dd
22	13C-1234678-HpCDD	3.24e5	3.06e5	6.30e5	38.54	1.075	1.06	NO	98.764	0.224	0.745	0.754	-1.2	4.67e6	4294	1087.8	4.48e6	3838	1167.5	bd
23	13C-OCDD	4.95e5	5.50e5	1.05e6	42.20	1.177	0.90	NO	187.903	0.247	0.618	0.657	-6.0	5.34e6	3036	1757.2	5.92e6	4761	1243.7	bd
24	13C-2378-TCDF	8.05e5	1.01e6	1.81e6	28.43	0.993	0.80	NO	99.184	0.0542	1.710	1.724	-0.8	8.57e6	1663	5154.5	1.04e7	1823	5726.3	bb
25	13C-12378-PeCDF	9.50e5	5.81e5	1.53e6	32.42	1.132	1.63	NO	102.003	0.244	1.443	1.415	2.0	2.25e7	6838	3295.2	1.40e7	6034	2326.9	bd
26	13C-23478-PeCDF	9.21e5	5.87e5	1.51e6	33.00	1.152	1.57	NO	106.090	0.257	1.422	1.340	6.1	2.22e7	6838	3248.4	1.42e7	6034	2345.9	bb
27	13C-123478-HxCDF	3.57e5	6.91e5	1.05e6	34.90	0.974	0.52	NO	109.894	0.299	1.239	1.127	9.9	7.83e6	7241	1081.2	1.48e7	8943	1655.2	bd
28	13C-123678-HxCDF	4.51e5	8.39e5	1.29e6	34.99	0.976	0.54	NO	103.498	0.229	1.525	1.473	3.5	8.51e6	7241	1175.6	1.60e7	8943	1787.2	dd
29	13C-234678-HxCDF	3.86e5	7.49e5	1.13e6	35.44	0.989	0.52	NO	104.849	0.263	1.341	1.279	4.8	7.44e6	7241	1027.3	1.42e7	8943	1587.2	bb
30	13C-123789-HxCDF	3.52e5	6.57e5	1.01e6	36.11	1.007	0.54	NO	108.054	0.305	1.193	1.104	8.1	5.90e6	7241	814.7	1.12e7	8943	1255.8	bd

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-1234678-HpCDF	2.55e5	5.85e5	8.40e5	37.43	1.044	0.44	NO	103.235	0.156	0.993	0.962	3.2	4.21e6	2706	1555.7	9.41e6	4494	2093.1	bb
32	13C-1234789-HpCDF	1.97e5	4.35e5	6.32e5	39.10	1.091	0.45	NO	99.869	0.200	0.747	0.748	-0.1	2.72e6	2706	1003.9	6.09e6	4494	1355.4	bd
33	13C-1234-TCDD	4.75e5	5.85e5	1.06e6	28.64	0.000	0.81	NO	100.000	0.116	1.000	1.000	0.0	5.02e6	2324	2158.9	6.14e6	1999	3069.3	bb
34	13C-123789-HxCDD	4.76e5	3.70e5	8.46e5	35.84	0.000	1.28	NO	100.000	0.140	1.000	1.000	0.0	8.11e6	3559	2277.6	6.57e6	3181	2066.2	db
35	37Cl-2378-TCDD	1.20e5		1.20e5	29.38	1.026			10.024	0.0351	1.133	1.130	0.2	1.23e6	1481	831.5				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

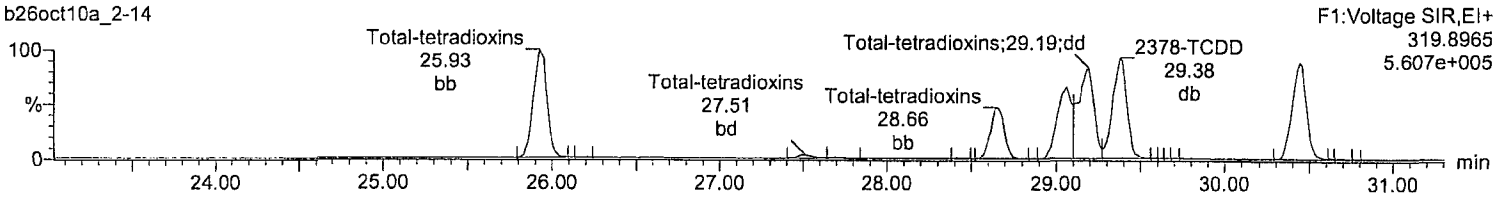
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

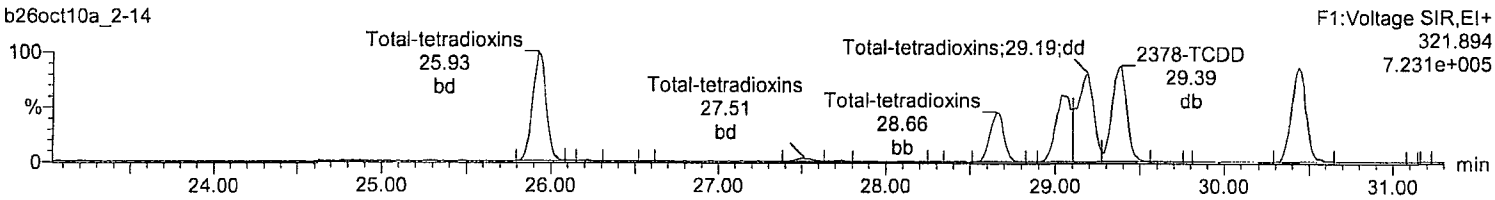
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

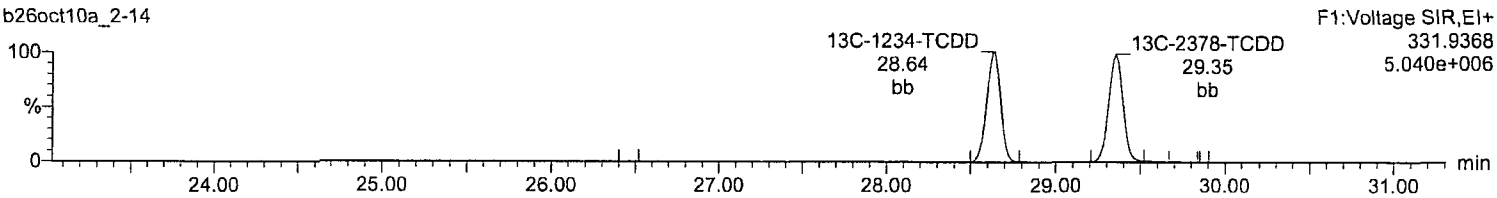
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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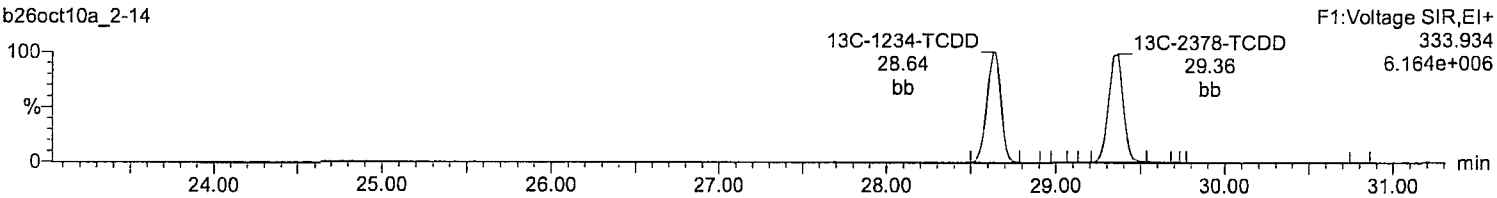
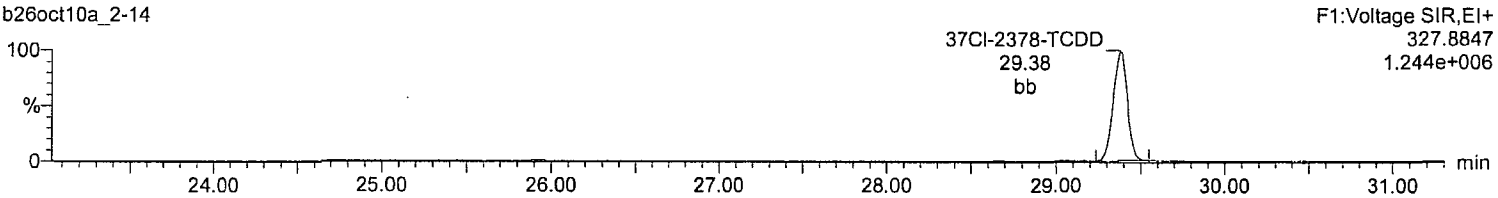
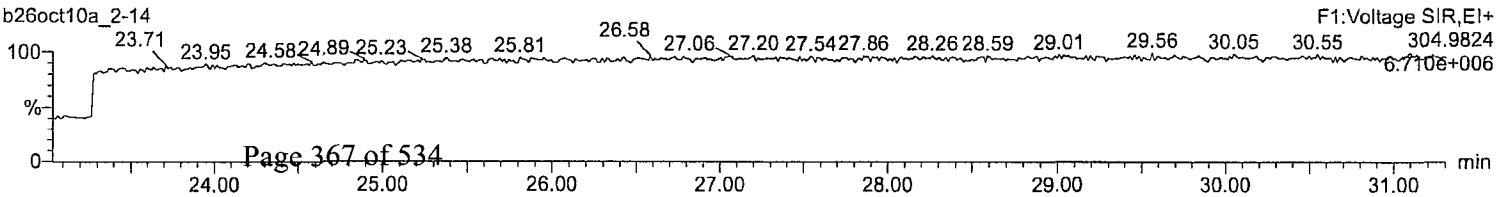


37Cl-2378-TCDD



Lock Mass F1



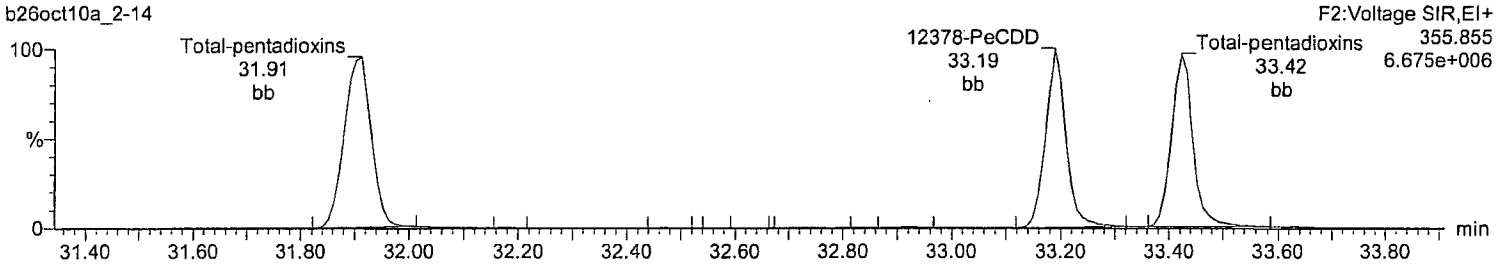
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

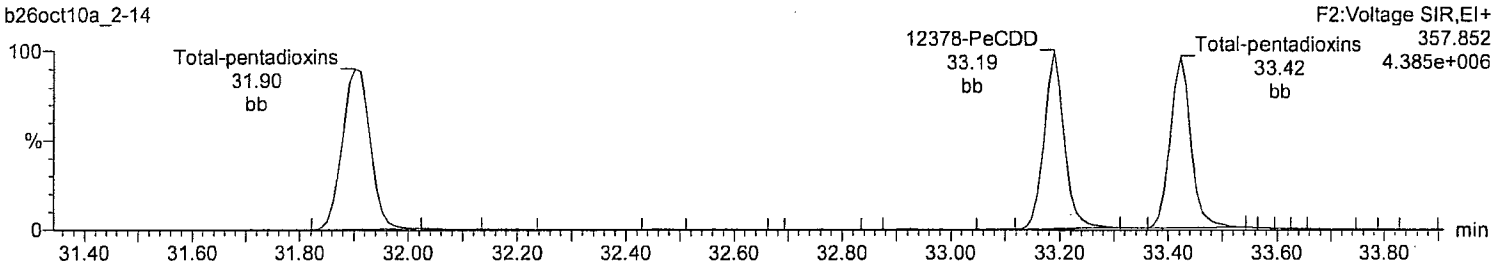
Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

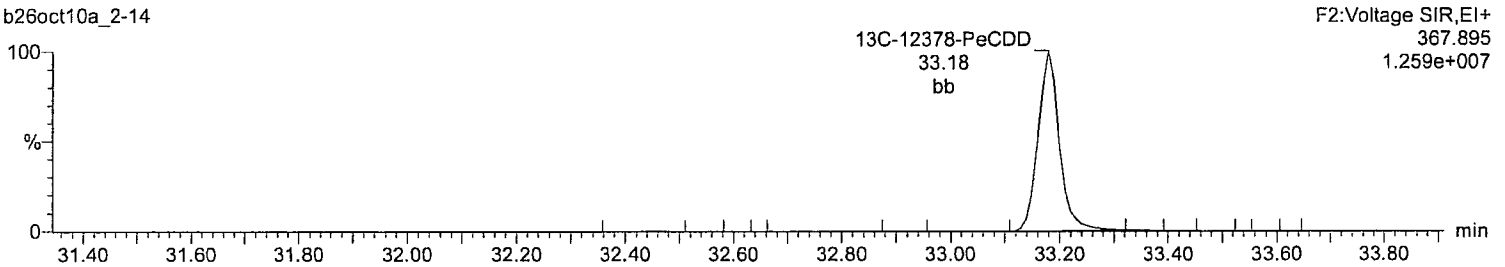
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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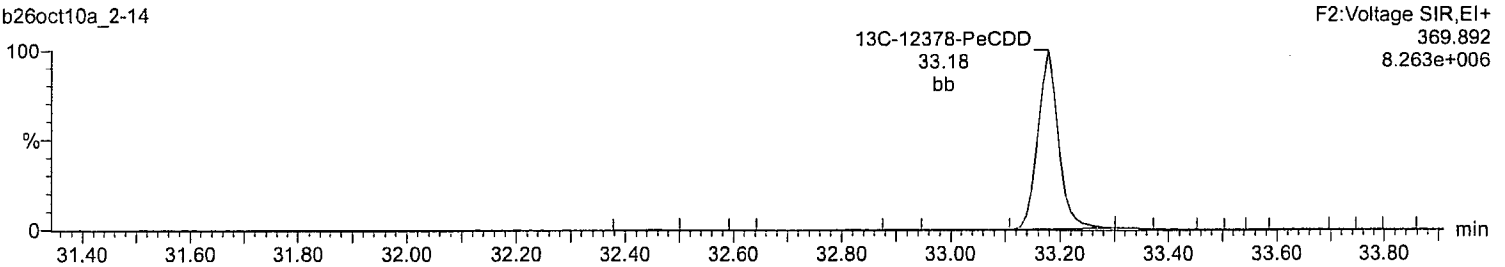
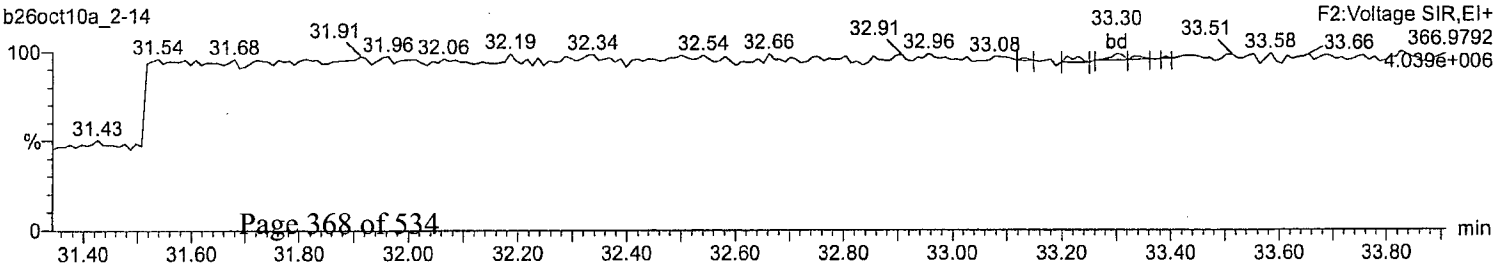


Lock Mass F2



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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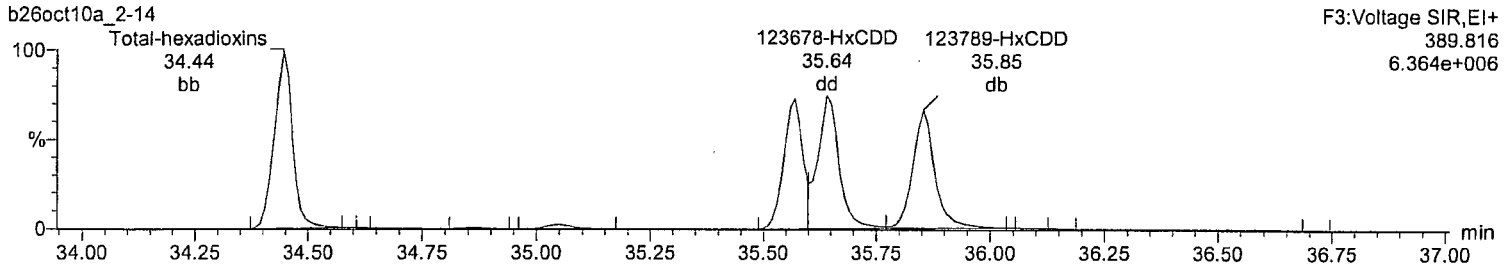
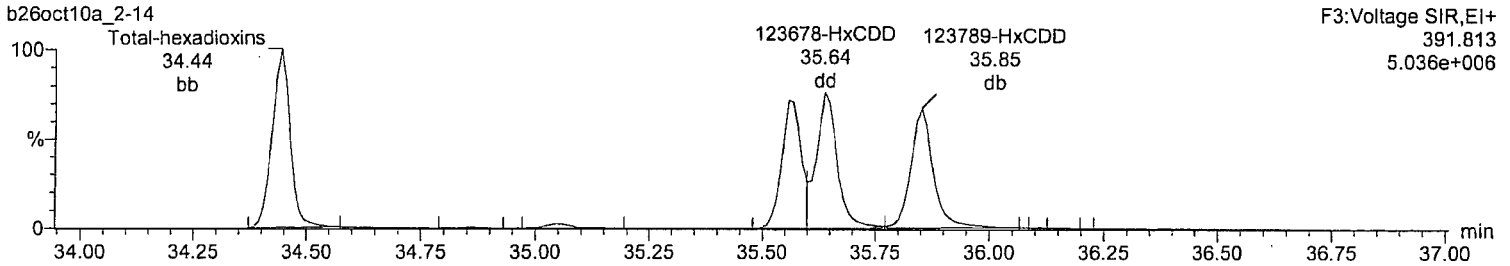
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

Total-hexadioxins



Total-hexadioxins



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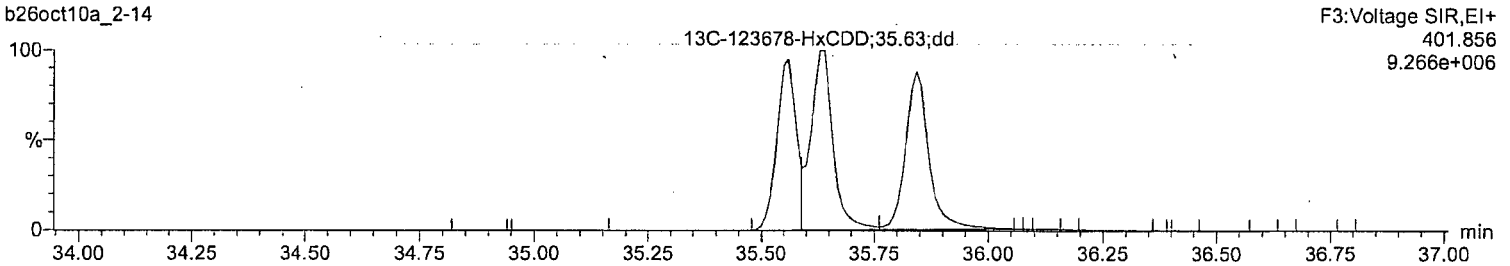

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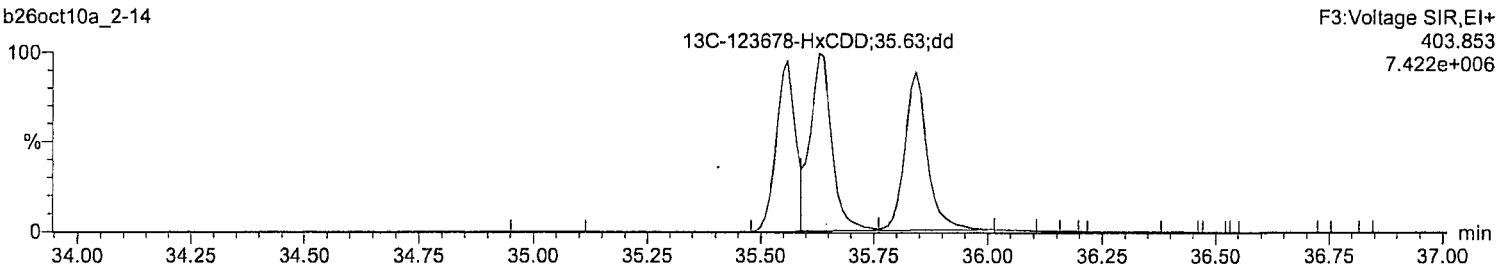
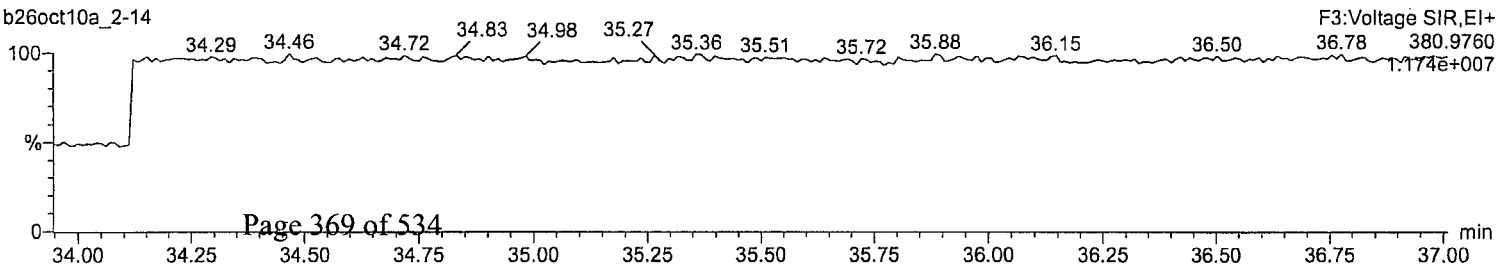


Lock Mass F3



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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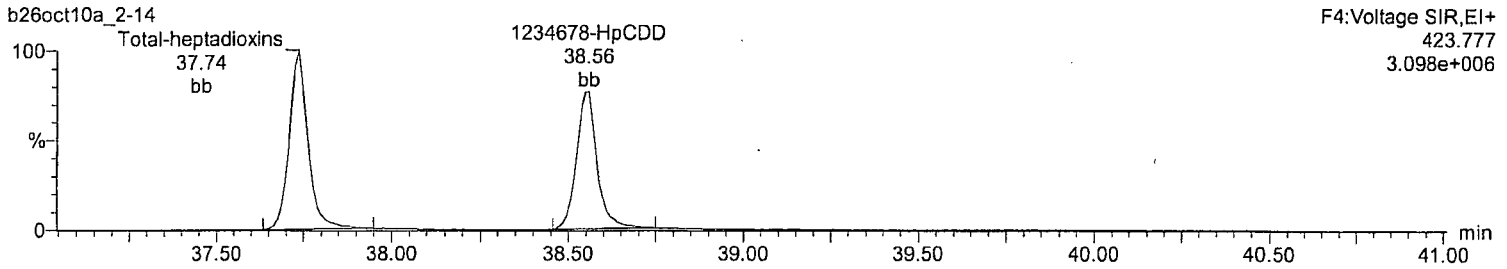
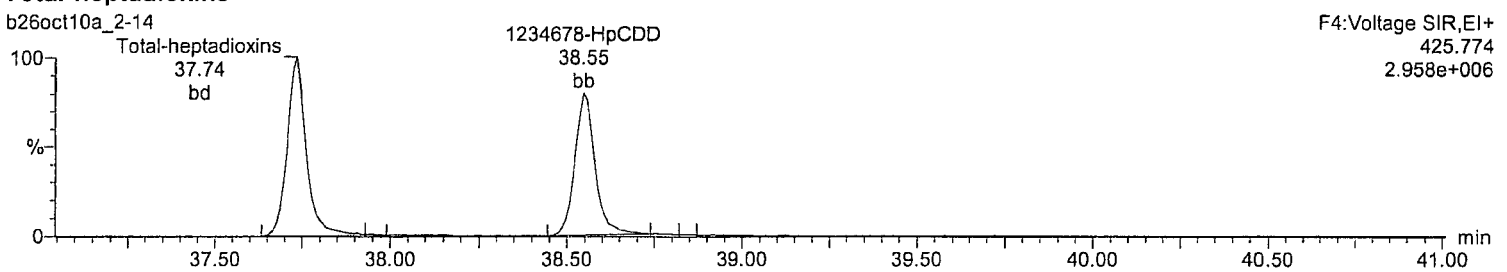
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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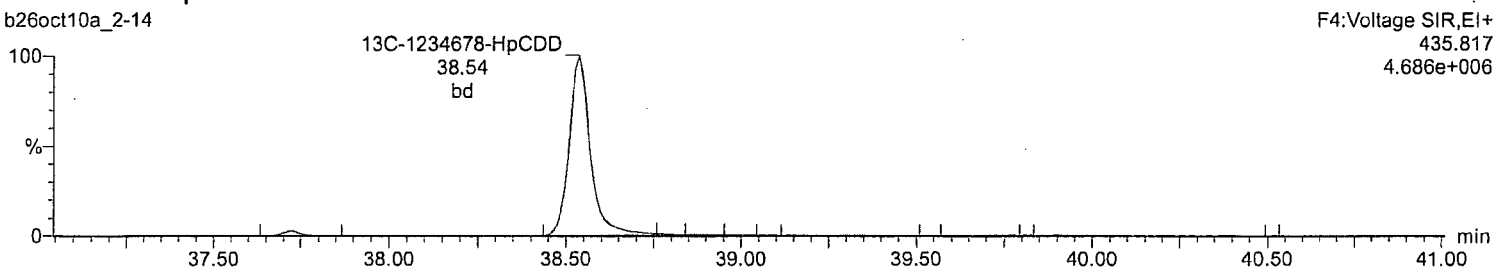

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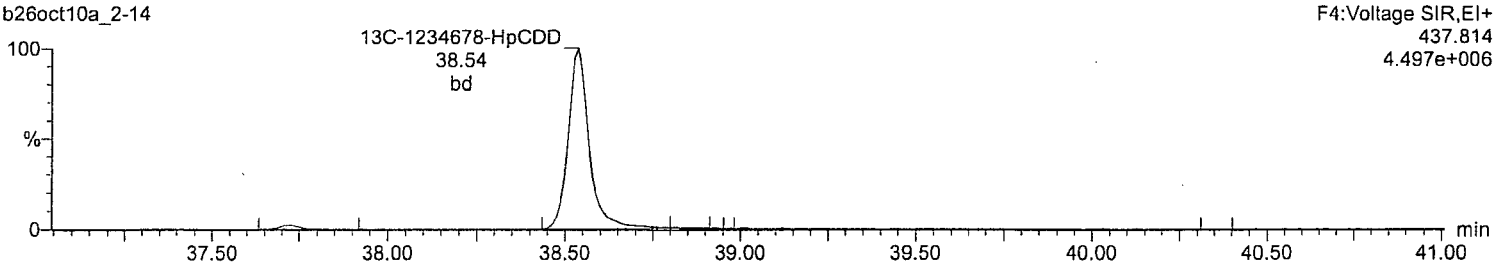
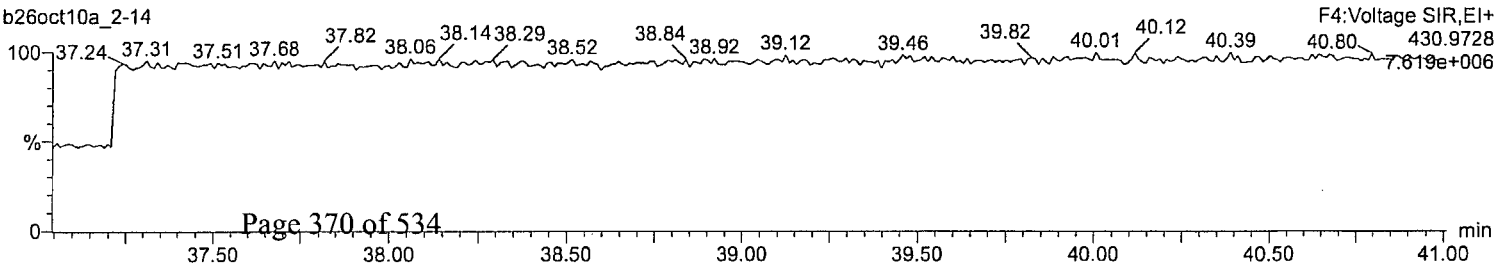


Lock Mass F4



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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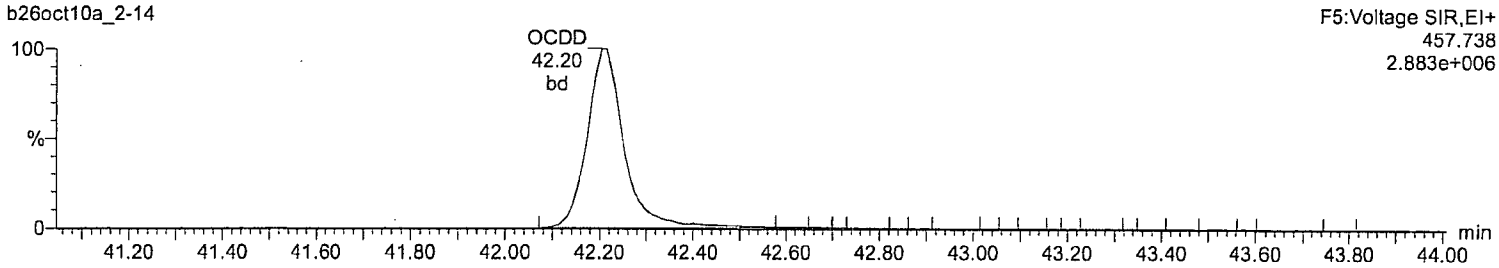
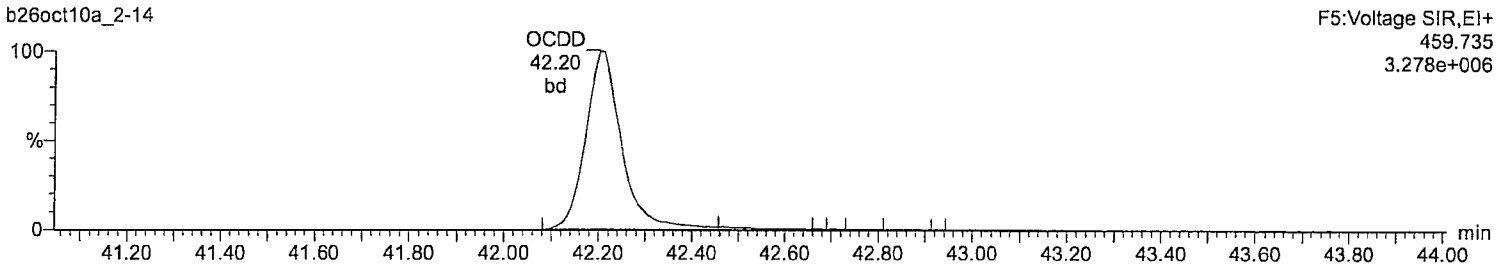
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

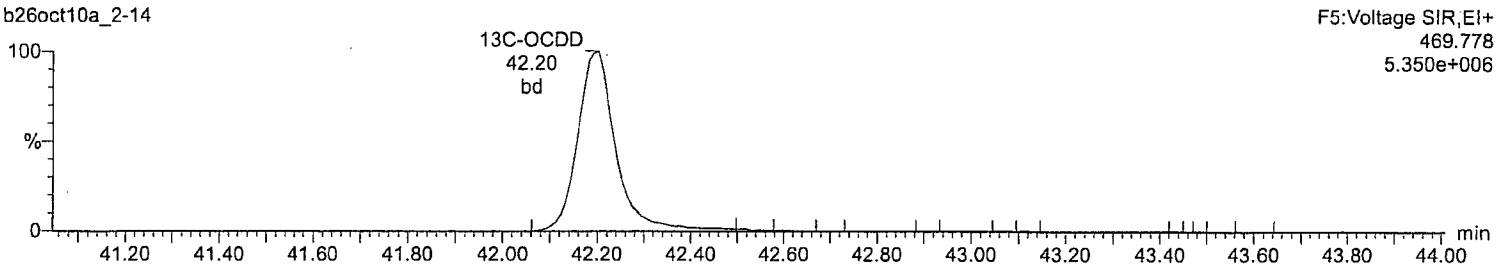
OCDD



OCDD



13C-OCDD



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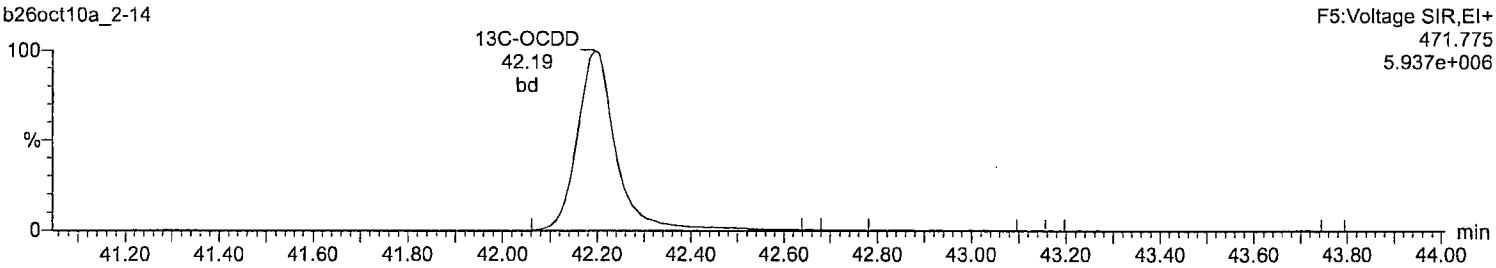
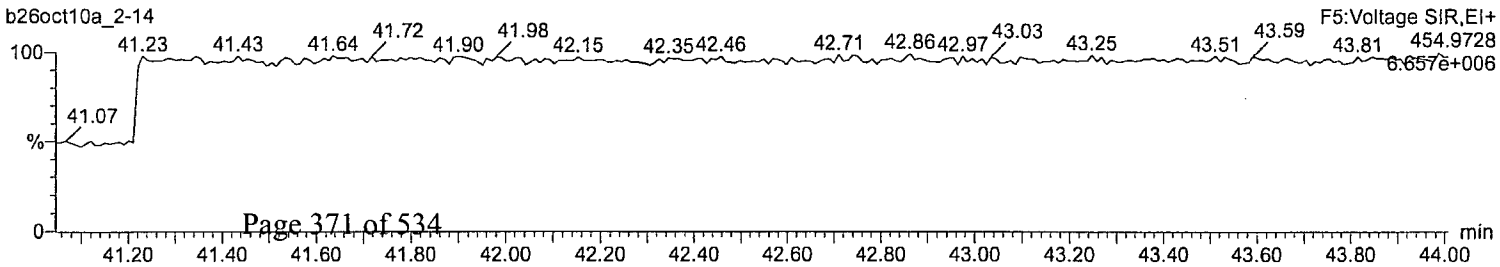


Lock Mass F5



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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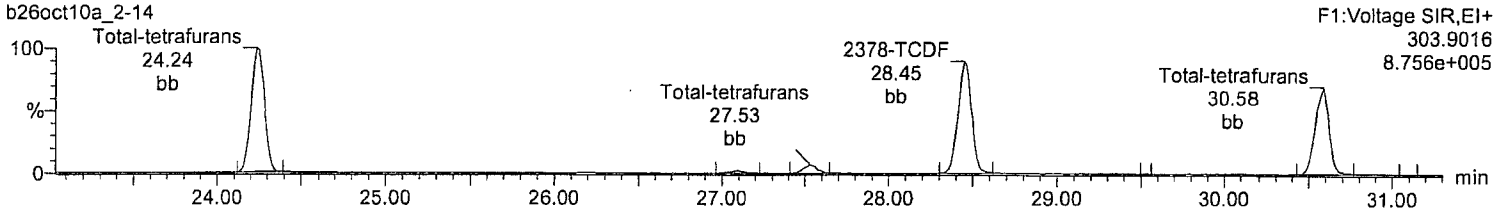
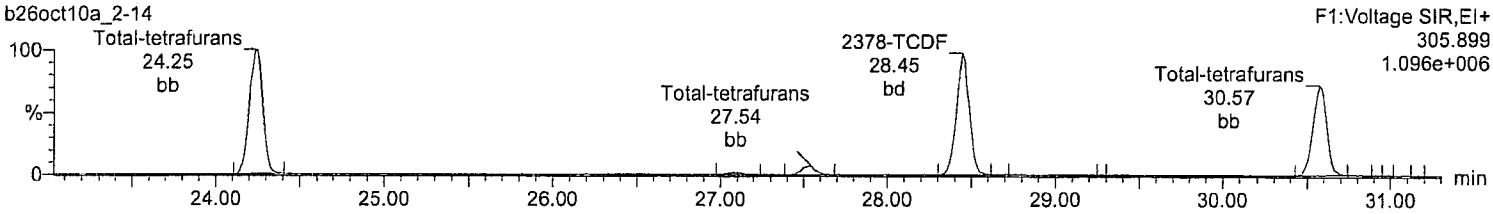
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

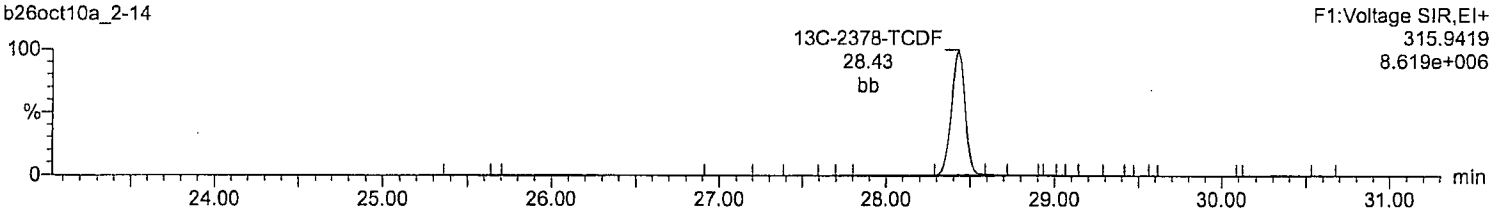
Total-tetrafurans



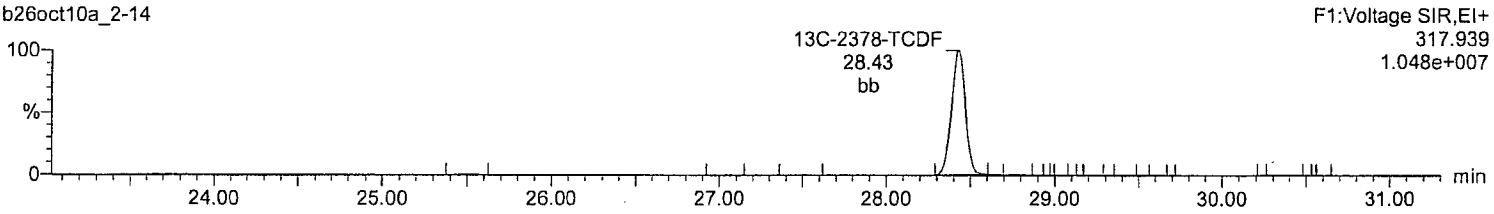
Total-tetrafurans



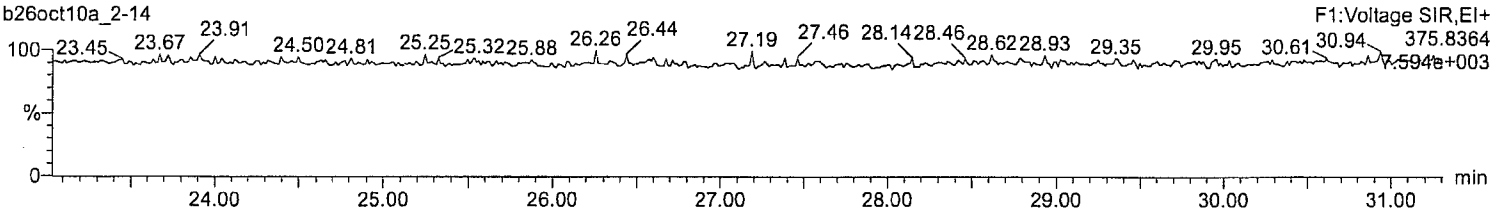
13C-2378-TCDF



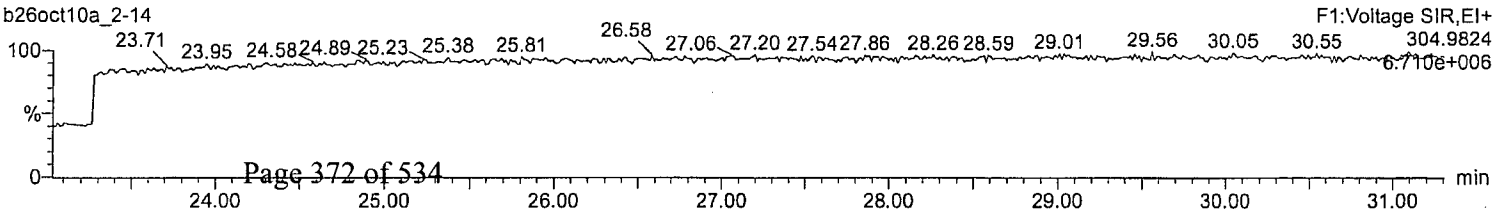
13C-2378-TCDF



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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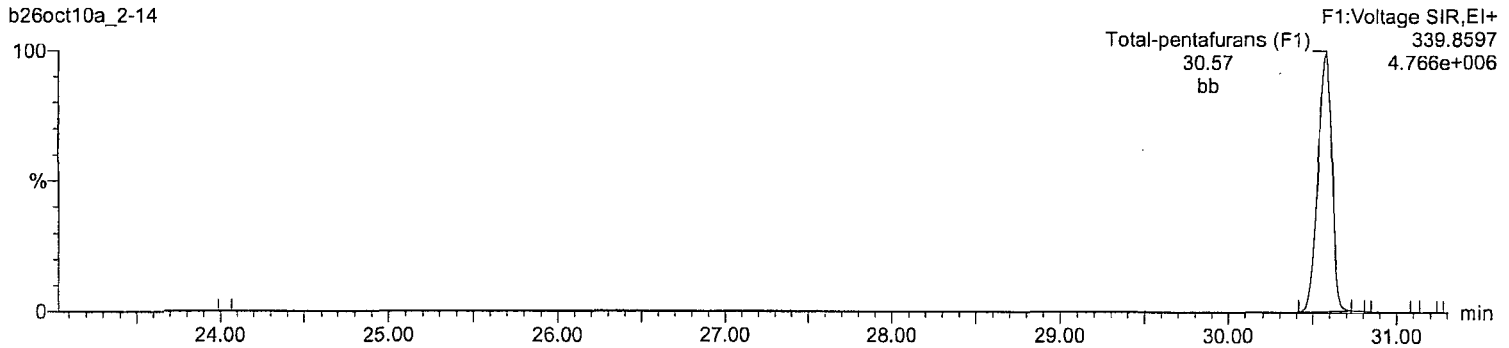
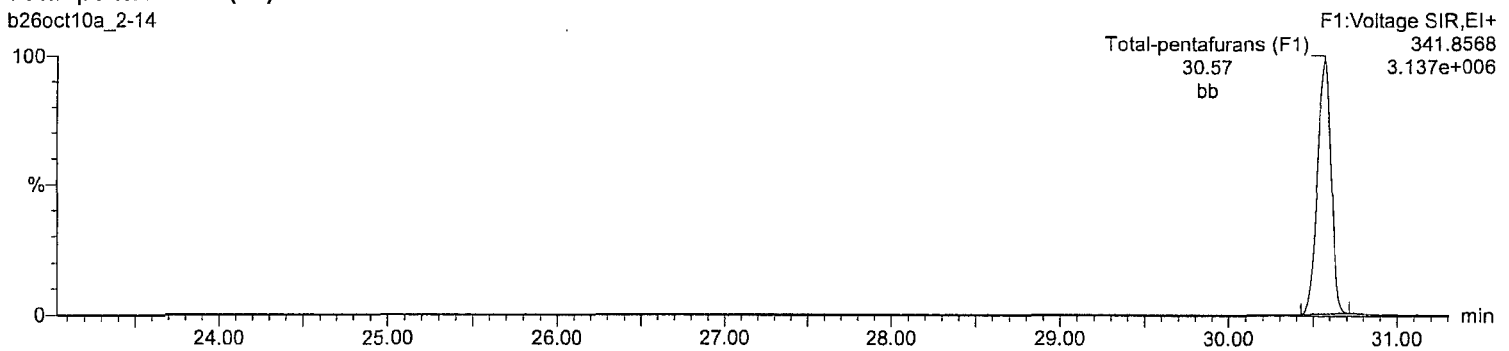
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

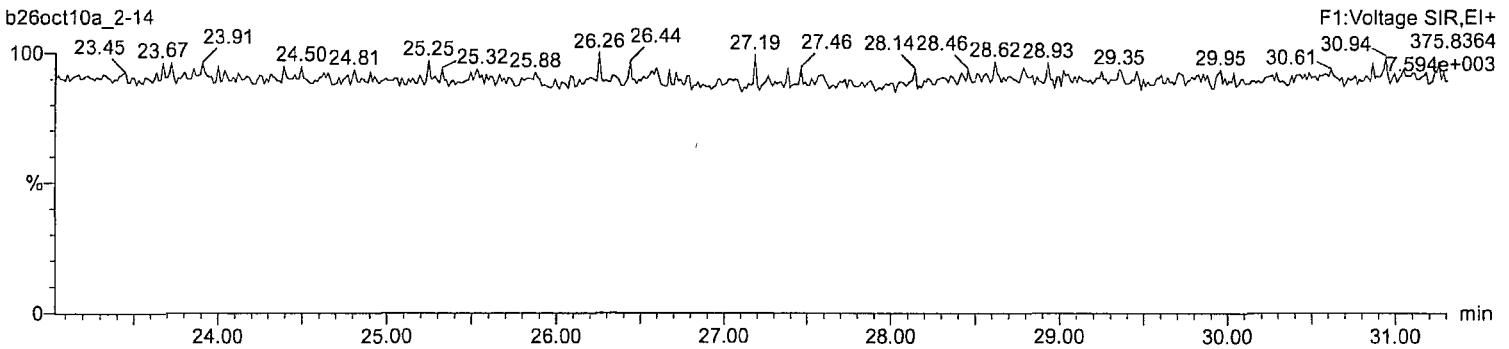
Total-pentafurans (F1)



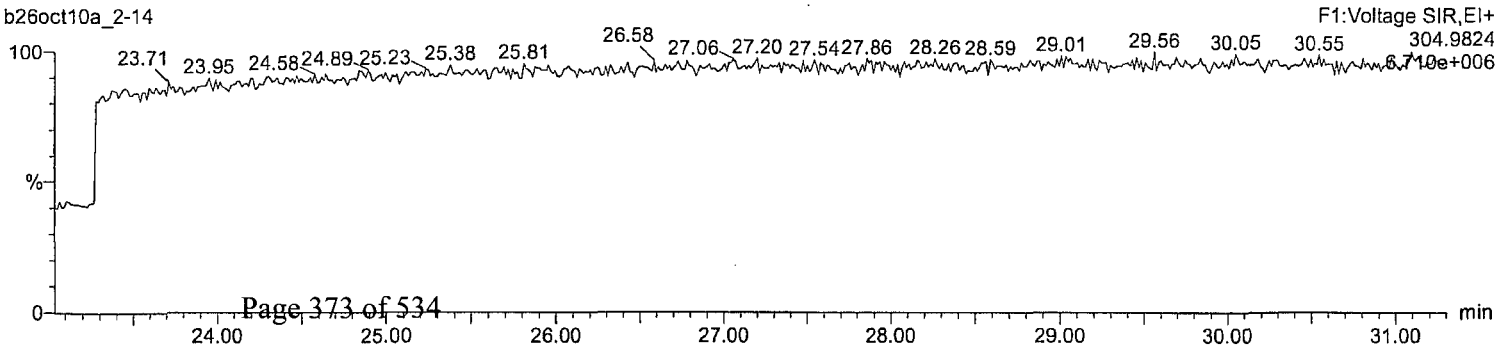
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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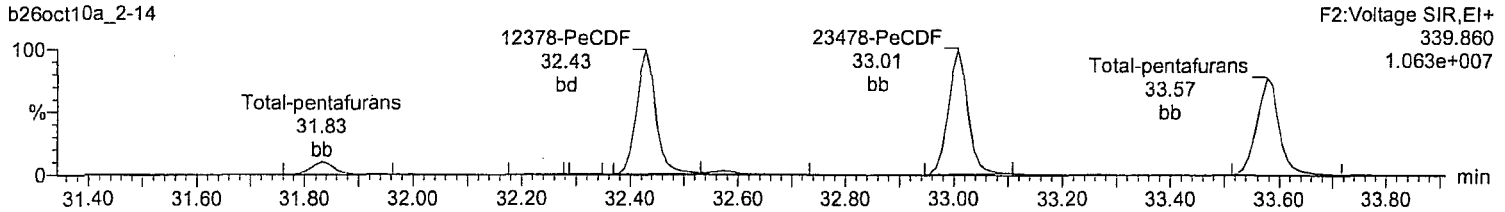
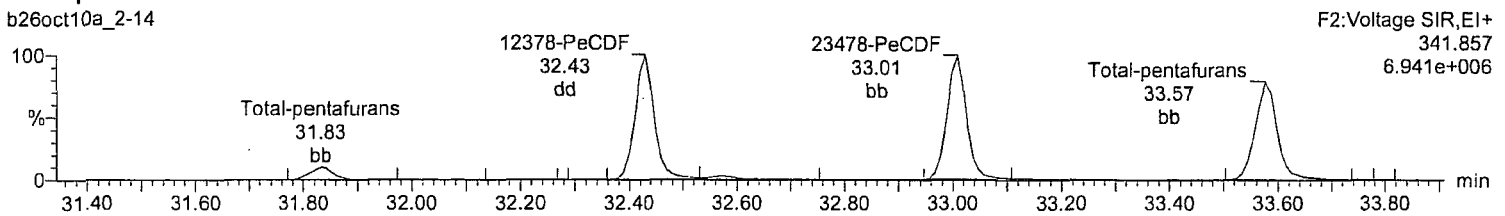
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

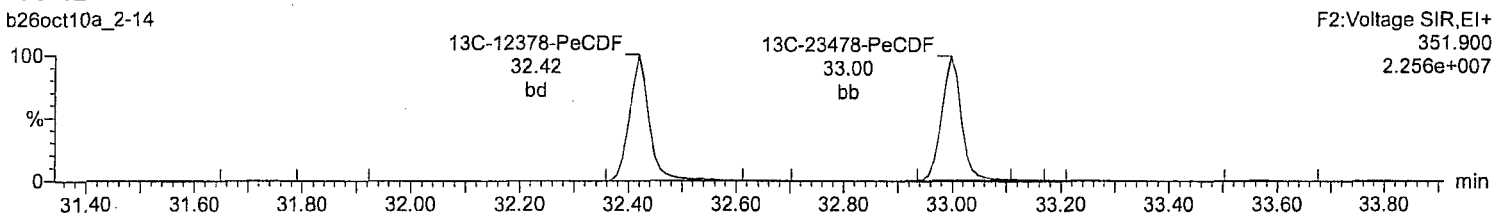
Total-pentafurans



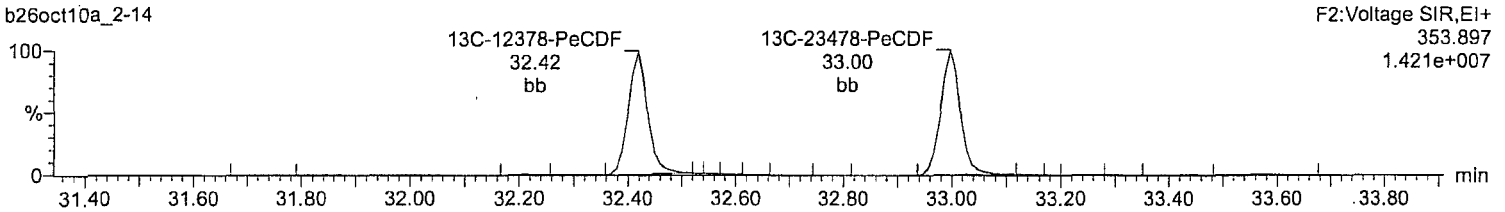
Total-pentafurans



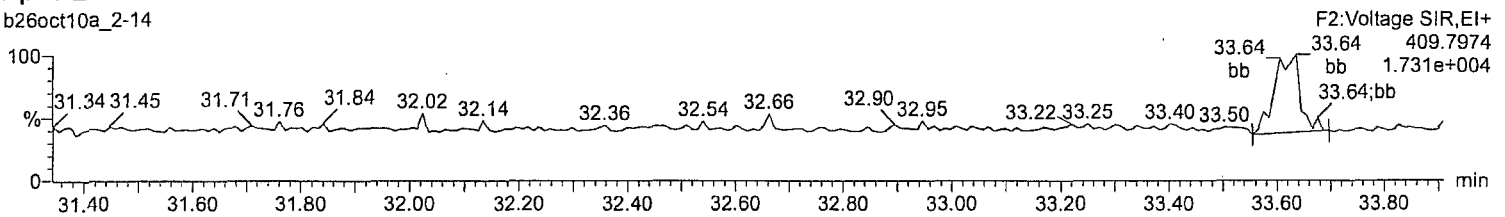
13C-12378-PeCDF



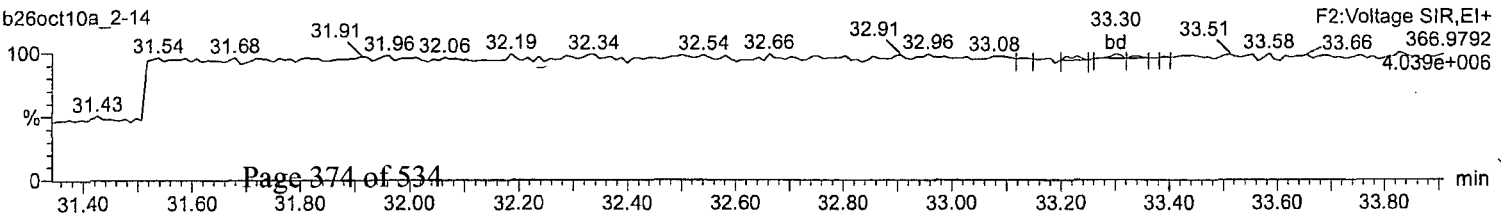
13C-12378-PeCDF



HpDPE



Lock Mass F2



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
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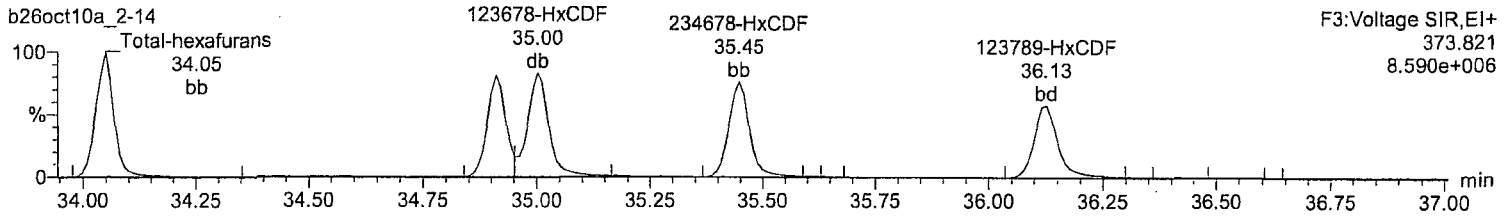
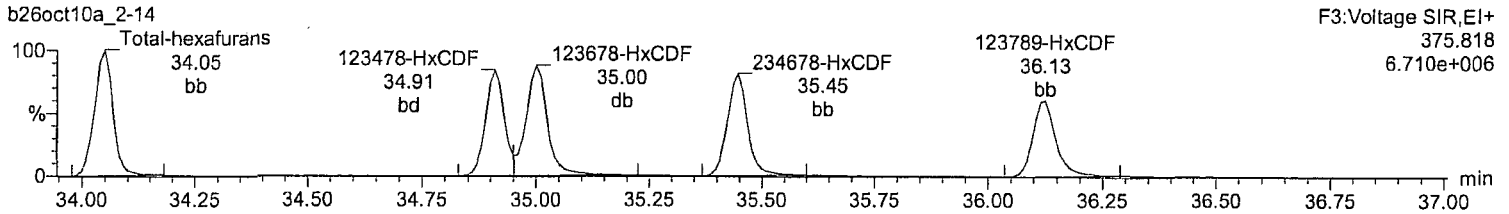
Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

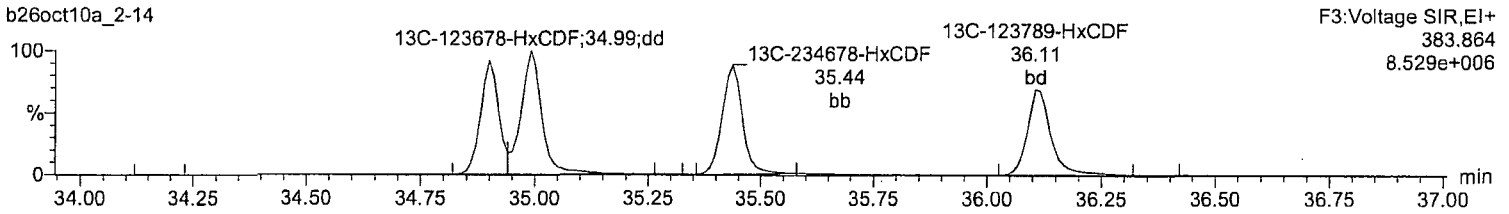
Total-hexafurans



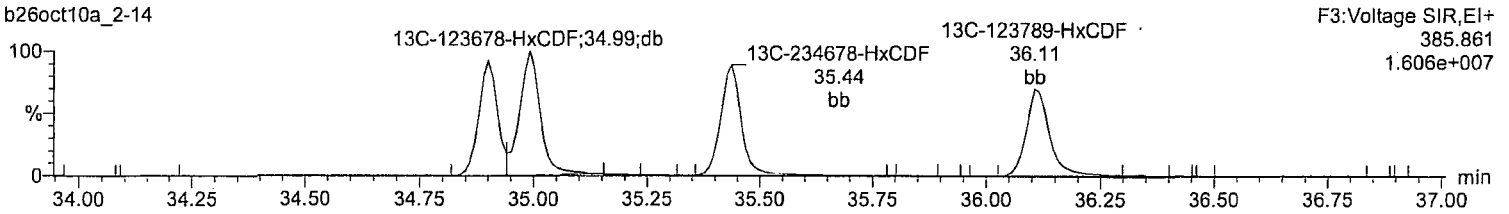
Total-hexafurans



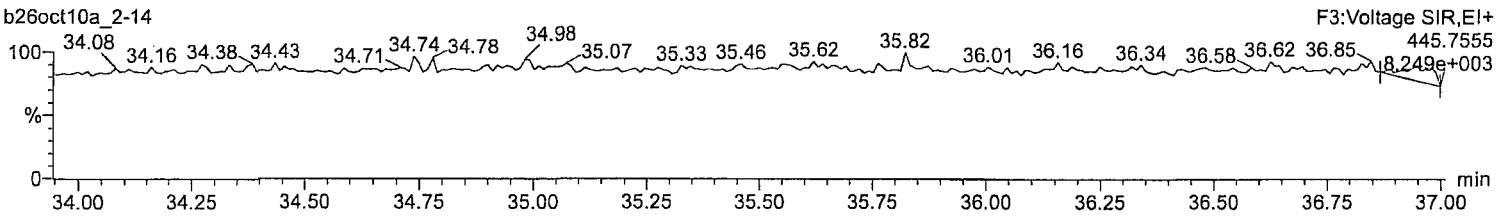
13C-123478-HxCDF



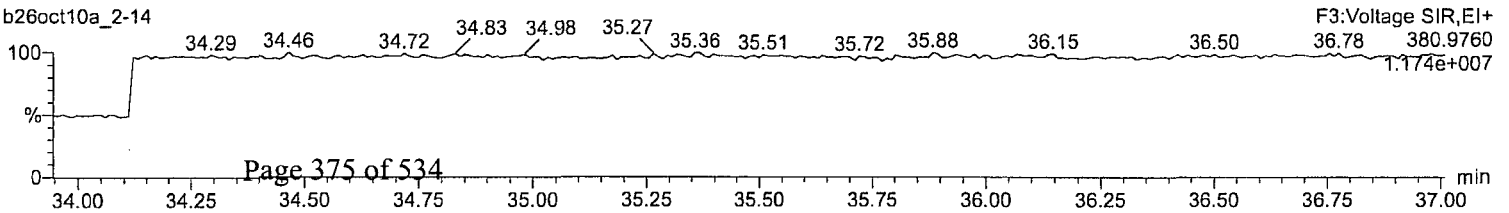
13C-123478-HxCDF



OcDPE



Lock Mass F3



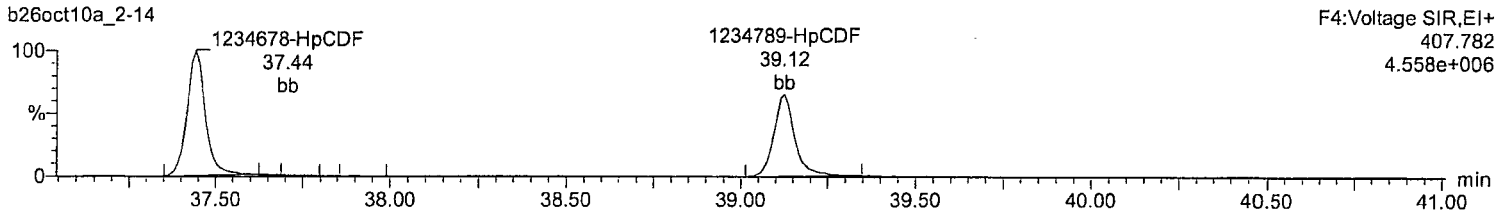
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

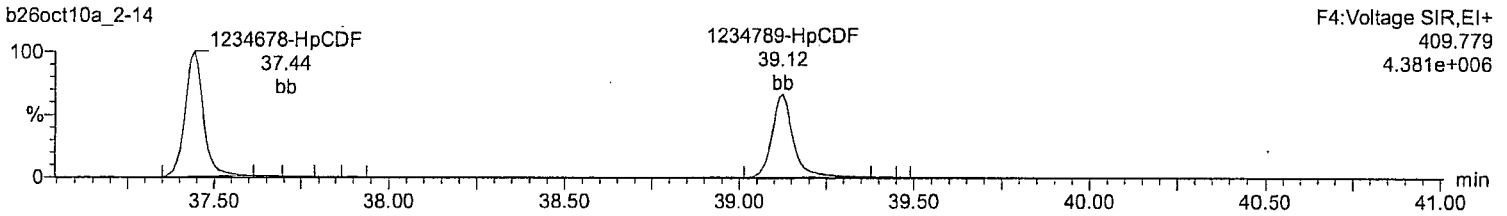
Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

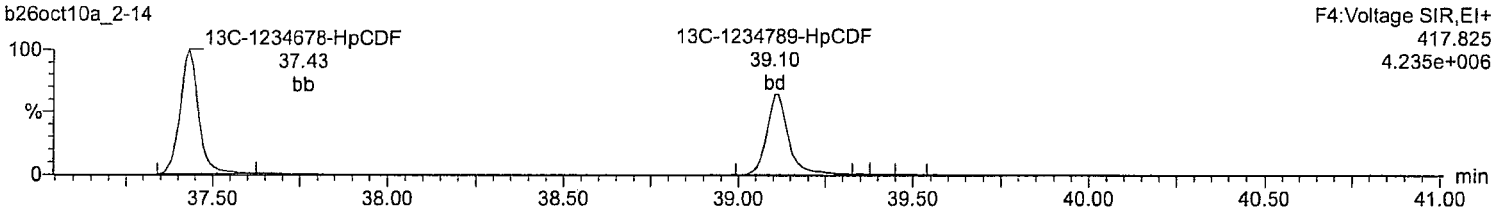
Total-heptafurans



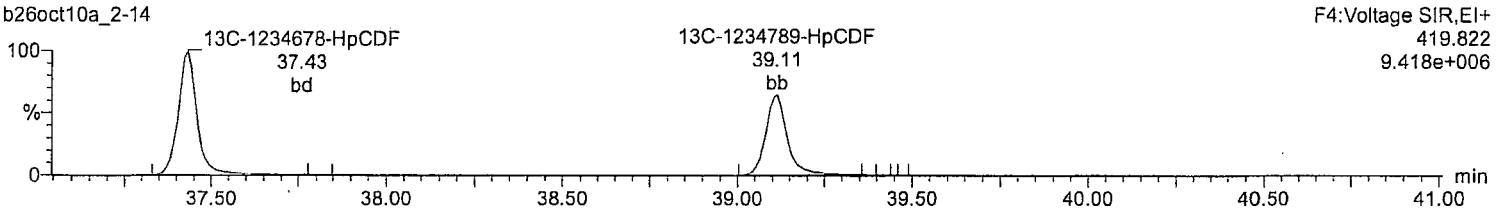
Total-heptafurans



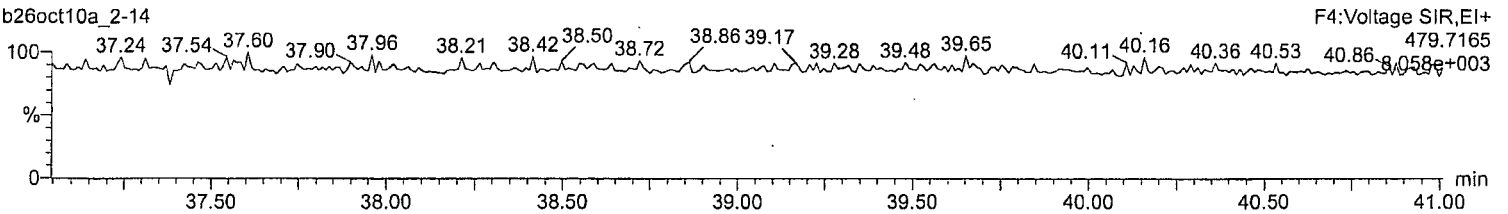
13C-1234678-HpCDF



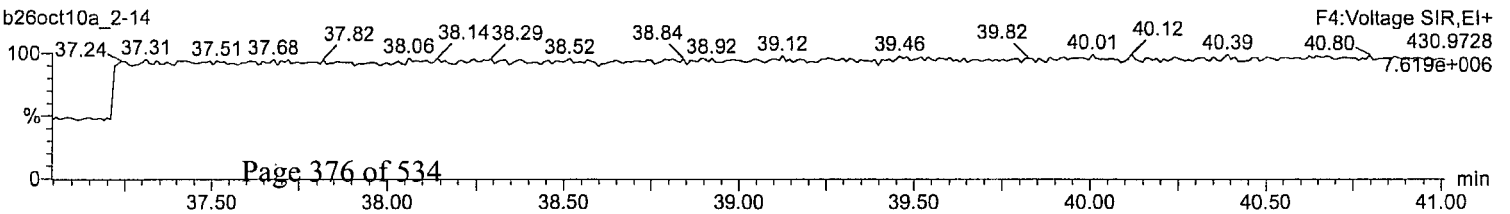
13C-1234678-HpCDF



NoDPE



Lock Mass F4



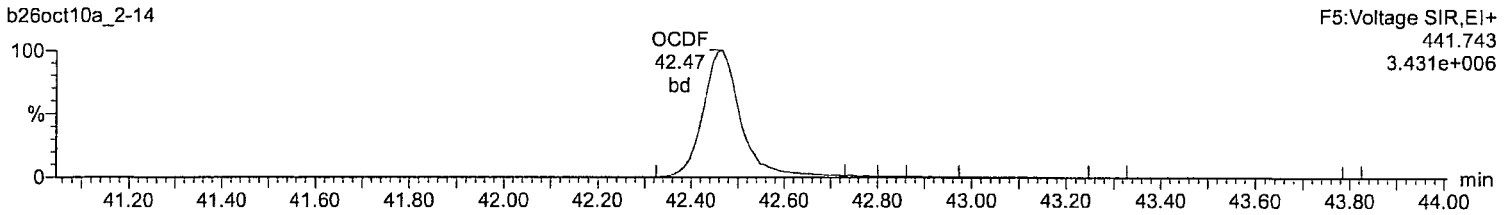
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_2-14.qld

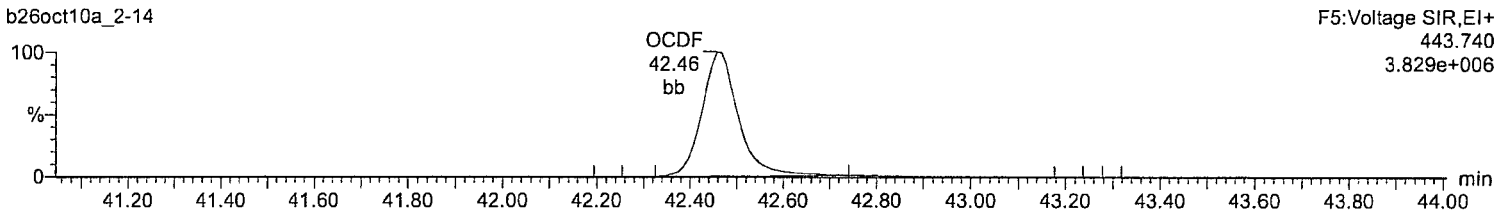
Last Altered: Thursday, October 28, 2010 09:38:22 Eastern Standard Time
Printed: Thursday, October 28, 2010 09:39:50 Eastern Standard Time

Name: b26oct10a_2-14, Date: 27-Oct-2010, Time: 15:09:11, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_2, Task: HRP763_1, User: MJC

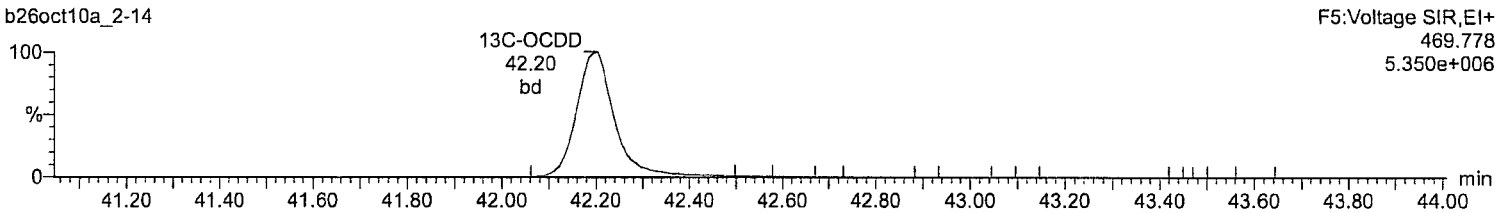
OCDF



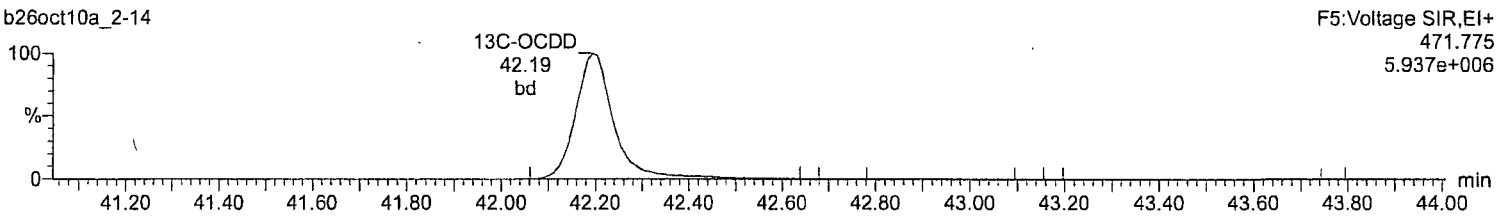
OCDF



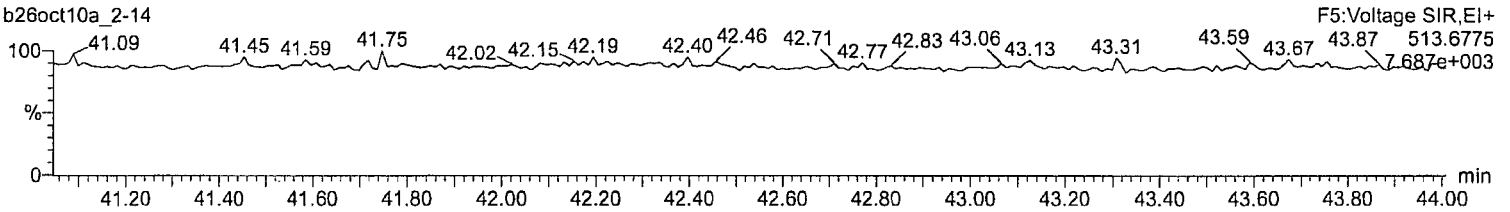
13C-OCDD



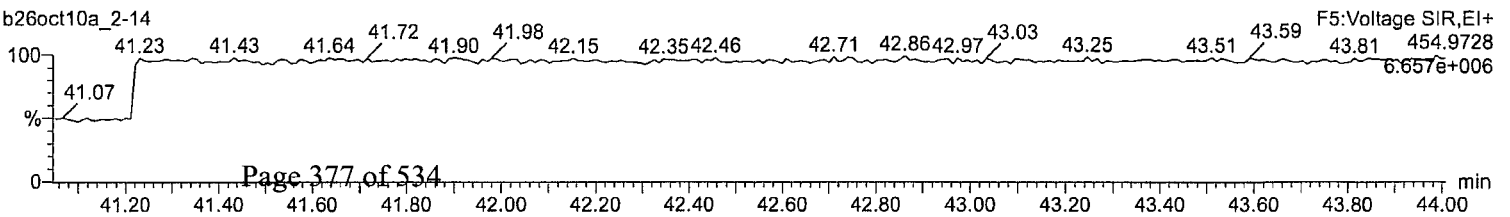
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.89e4	6.14e4	1.10e5	29.38	1.001	0.80	NO	11.440	0.0757	1.058	0.925	14.4	4.87e5	1212	401.9	6.08e5	1311	464.0	dd
2	12378-PeCDD	2.78e5	1.76e5	4.54e5	33.19	1.000	1.58	NO	52.774	0.0799	1.046	0.991	5.5	6.44e6	3006	2141.5	4.06e6	2354	1725.1	bb
3	123478-HxCDD	2.29e5	1.81e5	4.09e5	35.56	1.000	1.27	NO	50.777	0.135	1.019	1.004	1.6	4.69e6	3989	1175.4	3.70e6	3272	1131.5	bd
4	123678-HxCDD	2.47e5	1.92e5	4.38e5	35.64	1.000	1.29	NO	52.755	0.135	0.969	0.918	5.5	4.77e6	3989	1196.4	3.86e6	3272	1178.6	dd
5	123789-HxCDD	2.43e5	1.82e5	4.25e5	35.85	1.006	1.34	NO	53.067	0.138	0.996	0.939	6.1	4.50e6	3989	1129.2	3.36e6	3272	1025.7	dd
6	1234678-HpCDD	1.73e5	1.65e5	3.38e5	38.55	1.000	1.04	NO	52.638	0.203	1.038	0.986	5.3	2.75e6	3108	884.3	2.54e6	3712	684.0	bd
7	OCDD	2.76e5	3.07e5	5.83e5	42.21	1.000	0.90	NO	110.606	0.198	1.085	0.981	10.6	3.23e6	2150	1504.3	3.67e6	2057	1783.8	bd
8	2378-TCDF	7.21e4	9.41e4	1.66e5	28.45	1.000	0.77	NO	9.970	0.0447	0.936	0.939	-0.3	8.06e5	1199	672.6	1.01e6	1466	691.5	bb
9	12378-PeCDF	4.23e5	2.74e5	6.97e5	32.43	1.000	1.54	NO	53.727	0.111	0.954	0.888	7.5	1.04e7	8049	1292.1	6.60e6	3923	1682.8	dd
10	23478-PeCDF	4.26e5	2.77e5	7.03e5	33.01	1.000	1.54	NO	51.146	0.105	0.970	0.949	2.3	1.02e7	8049	1266.2	6.36e6	3923	1620.7	bb
11	123478-HxCDF	3.23e5	2.64e5	5.88e5	34.91	1.000	1.22	NO	51.032	0.143	1.127	1.104	2.1	6.81e6	6711	1014.7	5.73e6	4848	1182.0	bd
12	123678-HxCDF	3.77e5	2.95e5	6.73e5	35.00	1.000	1.28	NO	52.506	0.137	1.101	1.048	5.0	7.37e6	6711	1097.8	5.96e6	4848	1228.7	dd
13	234678-HxCDF	3.42e5	2.78e5	6.20e5	35.45	1.000	1.23	NO	51.088	0.138	1.107	1.084	2.2	7.06e6	6711	1052.6	5.64e6	4848	1164.1	bb
14	123789-HxCDF	2.93e5	2.42e5	5.35e5	36.12	1.000	1.21	NO	51.951	0.181	1.057	1.017	3.9	5.37e6	6711	799.8	4.27e6	4848	880.9	bb
15	1234678-HpCDF	2.74e5	2.72e5	5.46e5	37.44	1.000	1.01	NO	52.178	0.122	1.317	1.262	4.4	4.72e6	3509	1346.3	4.61e6	3899	1183.3	bb
16	1234789-HpCDF	2.14e5	2.12e5	4.26e5	39.11	1.000	1.01	NO	52.232	0.179	1.289	1.234	4.5	3.15e6	3509	898.6	3.10e6	3899	793.9	bb
17	OCDF	3.26e5	3.59e5	6.84e5	42.46	1.006	0.91	NO	106.481	0.275	1.274	1.196	6.5	3.71e6	2744	1350.7	4.27e6	4353	981.3	bd
18	13C-2378-TCDD	4.62e5	5.81e5	1.04e6	29.35	1.025	0.79	NO	92.442	0.0978	1.024	1.107	-7.6	4.78e6	2159	2216.3	5.99e6	1746	3432.6	bb
19	13C-12378-PeCDD	5.33e5	3.36e5	8.68e5	33.18	1.158	1.59	NO	102.353	0.163	0.853	0.833	2.4	1.25e7	2462	5057.9	7.76e6	2422	3205.5	bb
20	13C-123478-HxCDD	4.49e5	3.53e5	8.03e5	35.55	0.992	1.27	NO	109.949	0.184	0.938	0.854	9.9	9.02e6	4507	2001.3	7.28e6	3689	1972.8	bd
21	13C-123678-HxCDD	5.03e5	4.02e5	9.05e5	35.63	0.994	1.25	NO	96.706	0.143	1.058	1.094	-3.3	9.74e6	4507	2161.0	7.89e6	3689	2137.9	dd
22	13C-1234678-HpCDD	3.39e5	3.13e5	6.51e5	38.54	1.075	1.08	NO	100.974	0.161	0.761	0.754	1.0	5.31e6	3275	1620.6	5.01e6	3073	1630.4	bd
23	13C-OCDD	5.11e5	5.64e5	1.07e6	42.19	1.177	0.91	NO	191.116	0.205	0.628	0.657	-4.4	6.16e6	3724	1655.3	6.76e6	3339	2025.0	bb
24	13C-2378-TCDF	7.89e5	9.88e5	1.78e6	28.43	0.993	0.80	NO	101.169	0.0556	1.745	1.724	1.2	8.46e6	1783	4746.9	1.05e7	1675	6237.8	bb
25	13C-12378-PeCDF	8.79e5	5.81e5	1.46e6	32.42	1.132	1.51	NO	101.341	0.136	1.434	1.415	1.3	2.20e7	3133	7023.6	1.42e7	3807	3731.5	bb
26	13C-23478-PeCDF	8.87e5	5.62e5	1.45e6	33.00	1.152	1.58	NO	106.184	0.144	1.423	1.340	6.2	2.21e7	3133	7056.9	1.37e7	3807	3598.1	bb
27	13C-123478-HxCDF	3.58e5	6.86e5	1.04e6	34.90	0.974	0.52	NO	108.186	0.208	1.220	1.127	8.2	7.55e6	5045	1496.9	1.45e7	7218	2005.4	bd
28	13C-123678-HxCDF	4.27e5	7.95e5	1.22e6	34.99	0.976	0.54	NO	96.939	0.159	1.428	1.473	-3.1	8.44e6	5045	1672.5	1.56e7	7218	2168.0	dd
29	13C-234678-HxCDF	3.83e5	7.37e5	1.12e6	35.44	0.989	0.52	NO	102.362	0.183	1.309	1.279	2.4	7.91e6	5045	1568.1	1.48e7	7218	2056.0	bb
30	13C-123789-HxCDF	3.46e5	6.66e5	1.01e6	36.11	1.007	0.52	NO	107.221	0.212	1.184	1.104	7.2	6.44e6	5045	1277.1	1.24e7	7218	1713.2	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-1234678-HpCDF	2.58e5	5.71e5	8.29e5	37.43	1.044	0.45	NO	100.772	0.145	0.969	0.962	0.8	4.51e6	3055	1475.9	9.85e6	4260	2313.3	bb
32	13C-1234789-HpCDF	2.02e5	4.59e5	6.61e5	39.10	1.091	0.44	NO	103.358	0.187	0.773	0.748	3.4	3.08e6	3055	1006.8	6.74e6	4260	1583.1	bd
33	13C-1234-TCDD	4.50e5	5.69e5	1.02e6	28.64	0.000	0.79	NO	100.000	0.108	1.000	1.000	0.0	4.78e6	2159	2213.0	5.99e6	1746	3428.5	bb
34	13C-123789-HxCDD	4.67e5	3.89e5	8.55e5	35.84	0.000	1.20	NO	100.000	0.157	1.000	1.000	0.0	8.56e6	4507	1899.1	7.04e6	3689	1907.8	db
35	37Cl-2378-TCDD	1.15e5		1.15e5	29.39	1.026			10.027	0.0307	1.134	1.130	0.3	1.16e6	1249	925.7				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

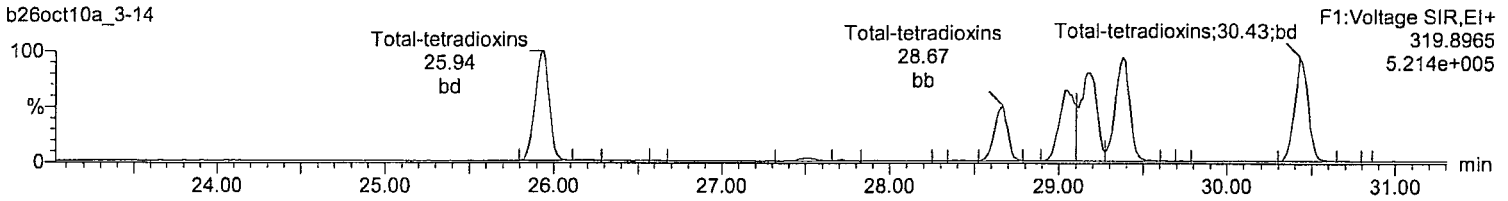
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

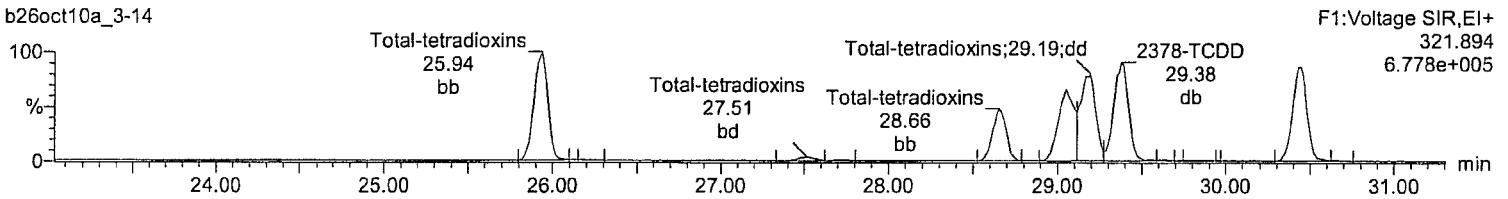
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_101810.mdb 19 Oct 2010 07:58:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b22oct10a.cdb 25 Oct 2010 08:43:32

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

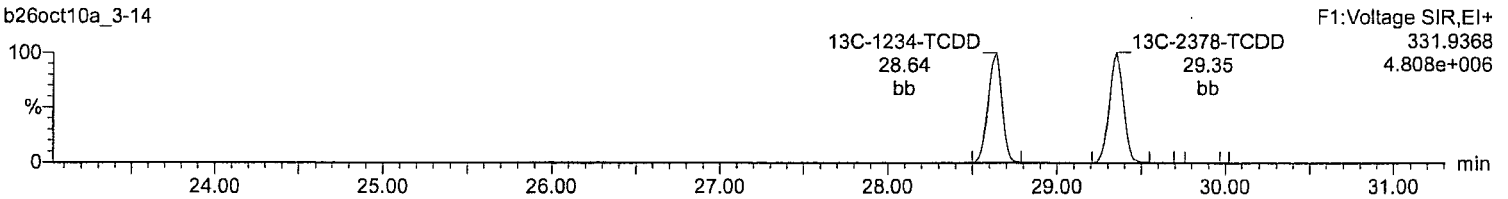
Total-tetradioxins



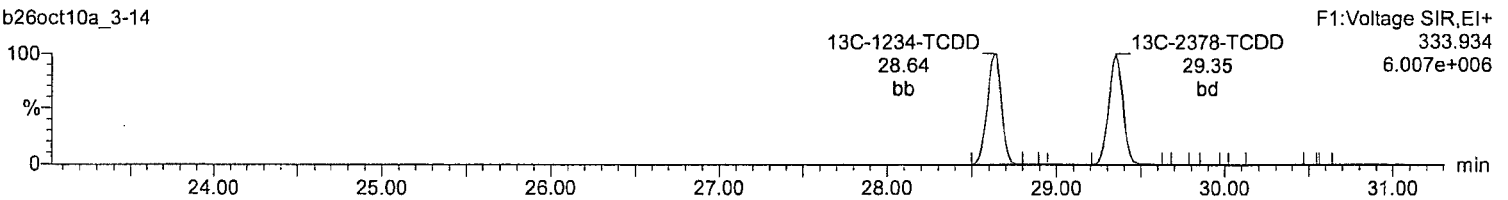
Total-tetradioxins



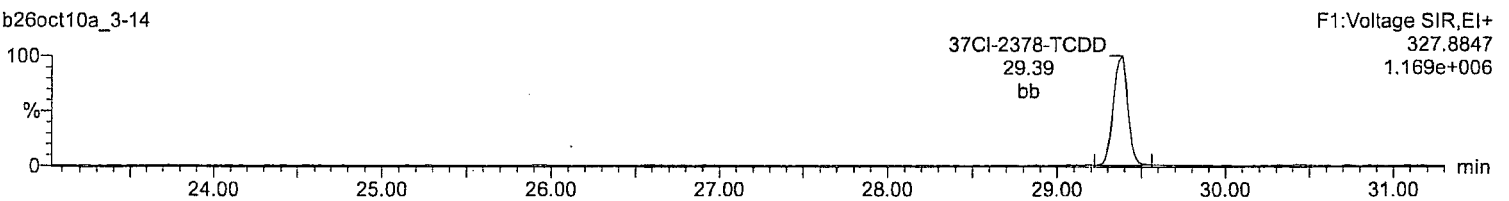
13C-2378-TCDD



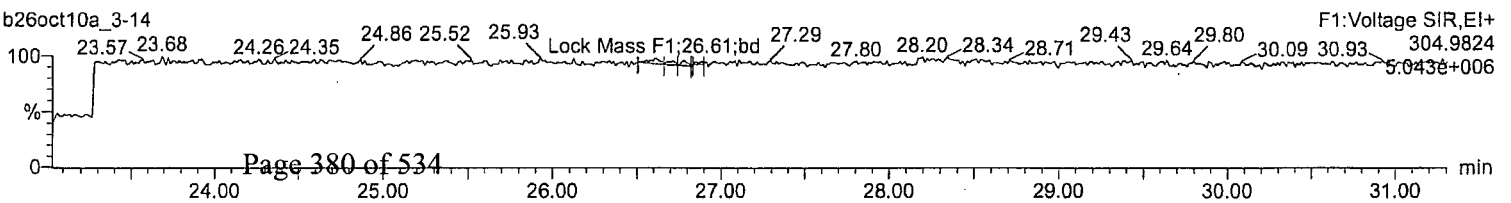
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



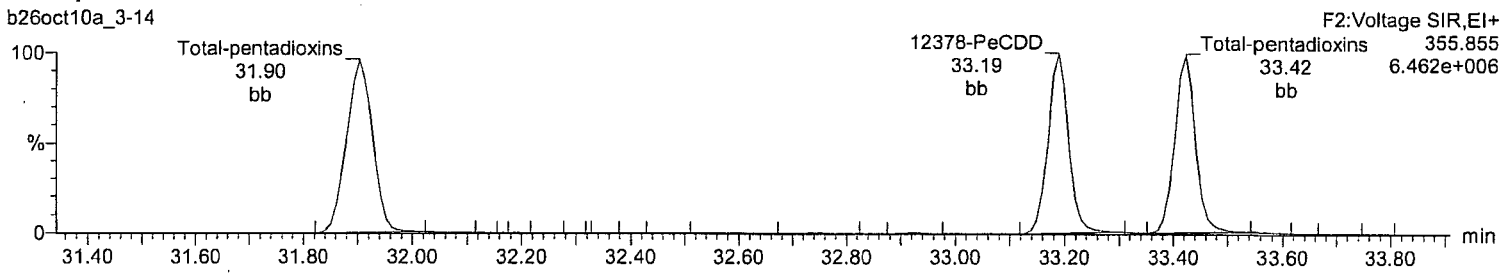
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

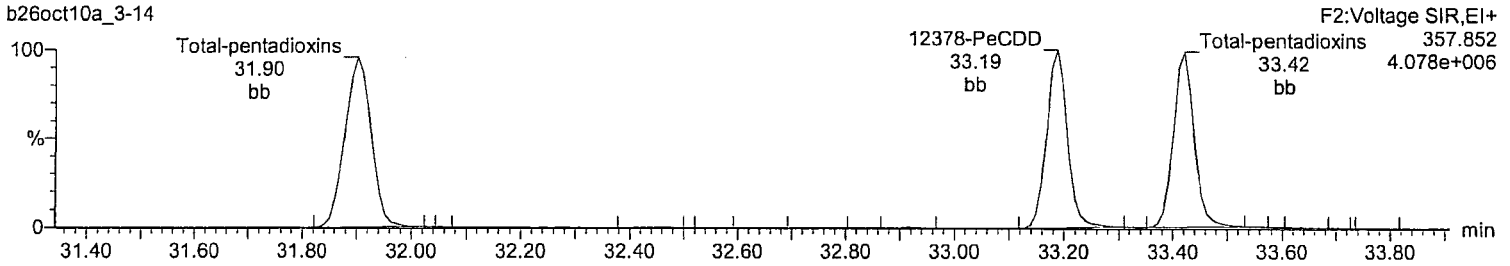
Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

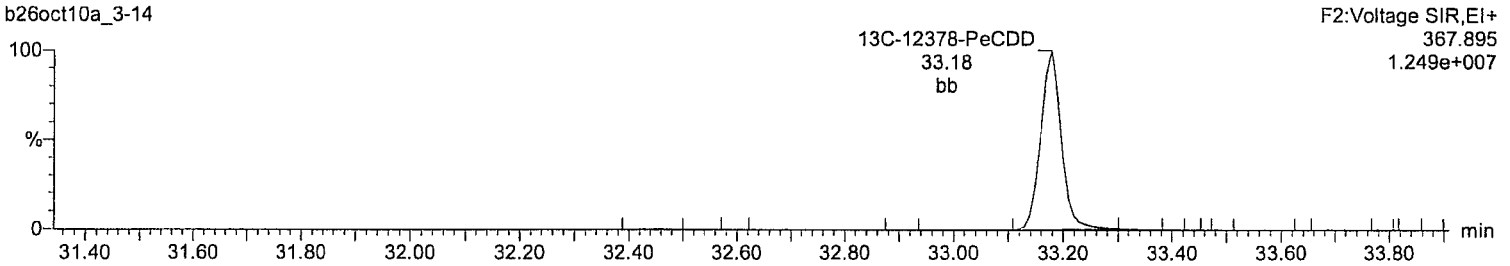
Total-pentadioxins



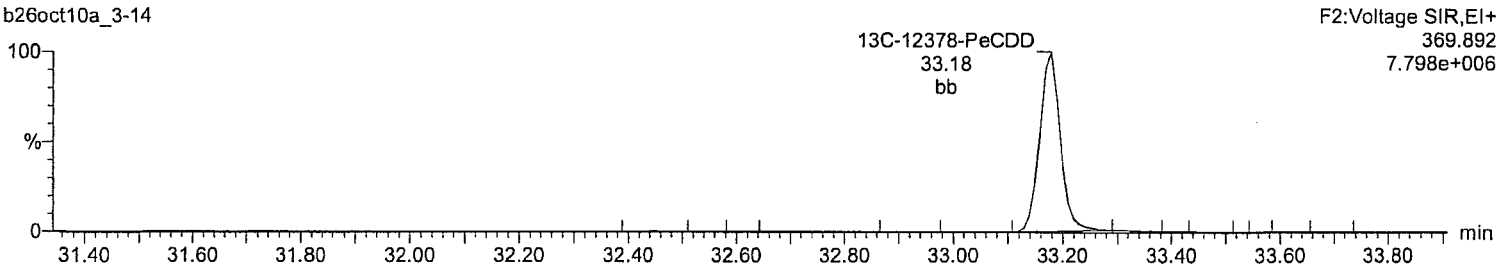
Total-pentadioxins



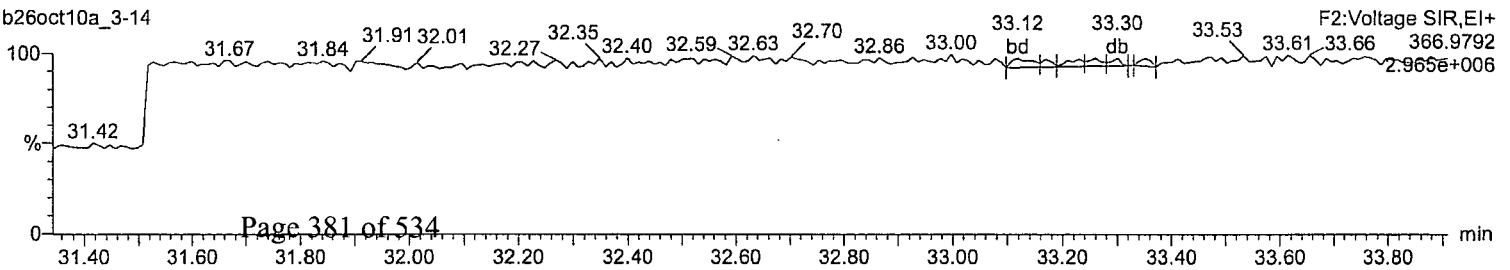
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



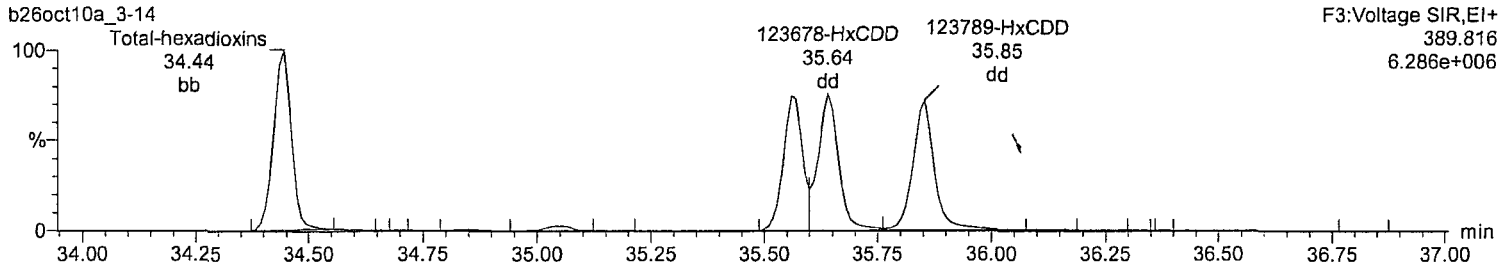
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

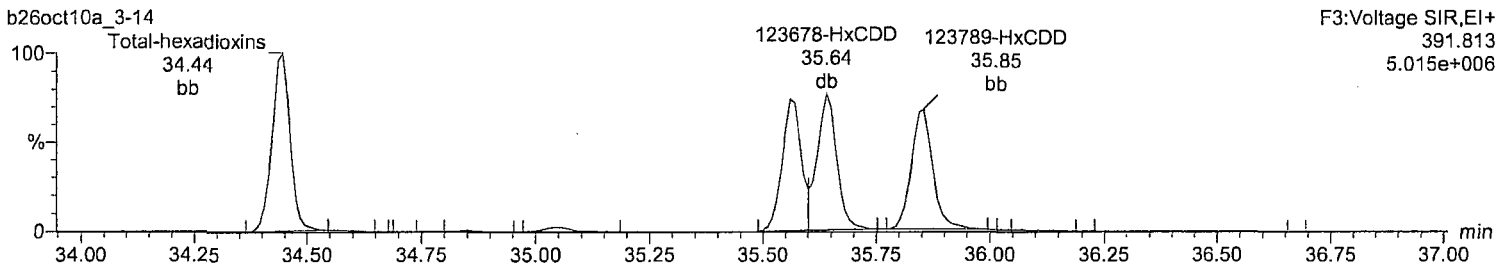
Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

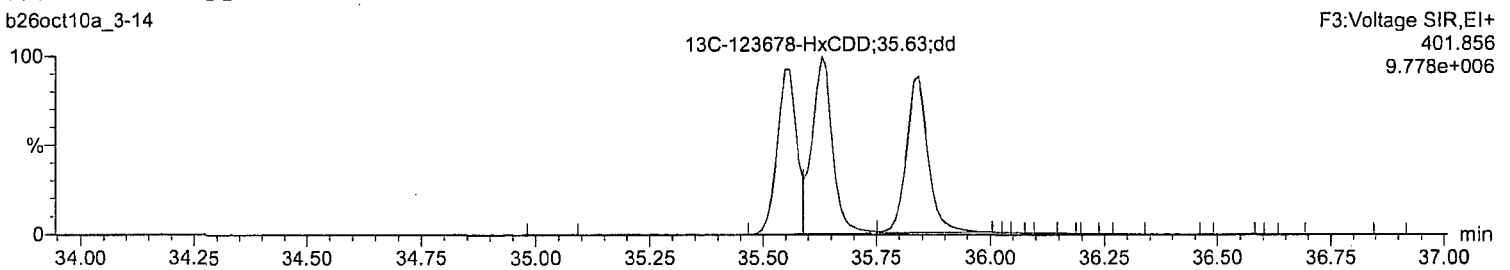
Total-hexadioxins



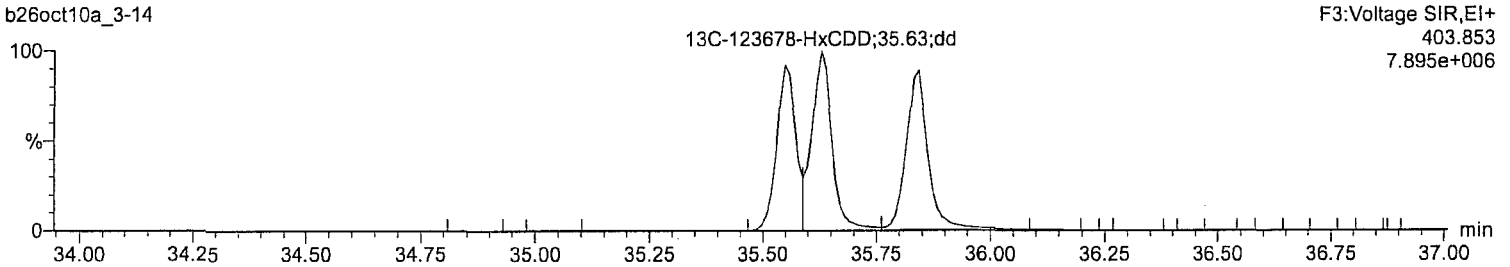
Total-hexadioxins



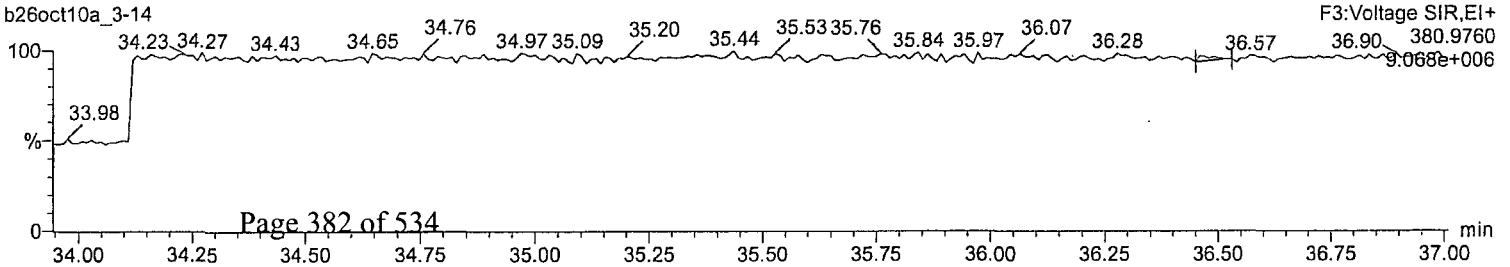
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



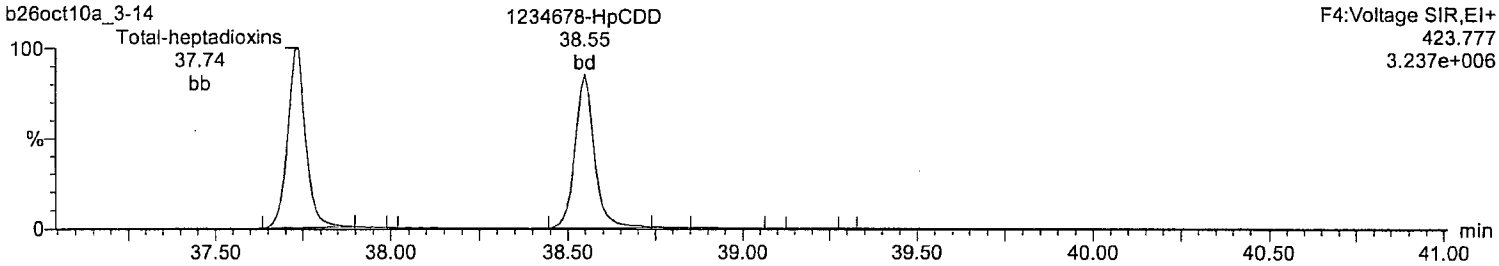
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

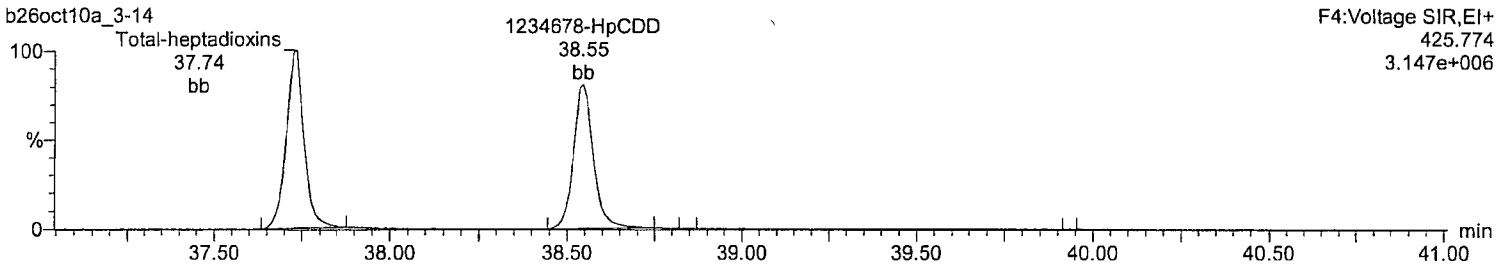
Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

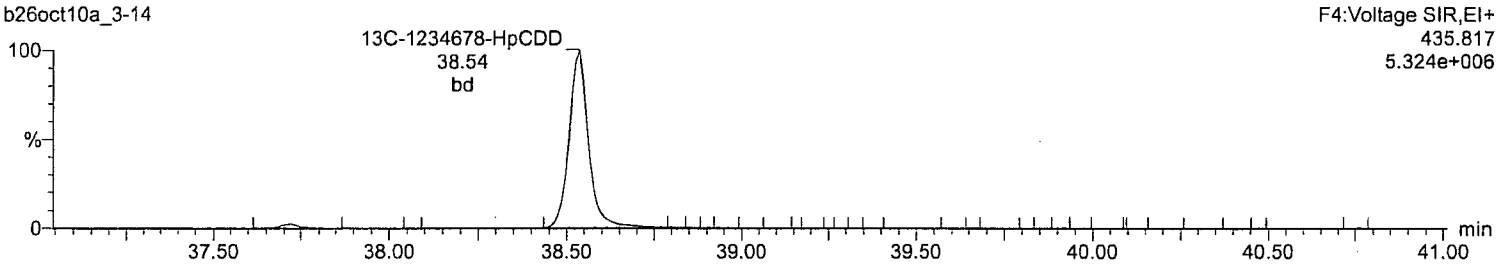
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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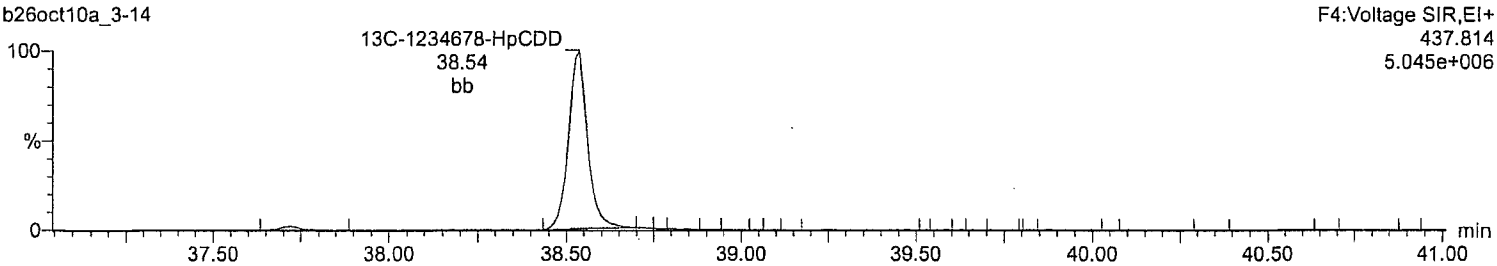
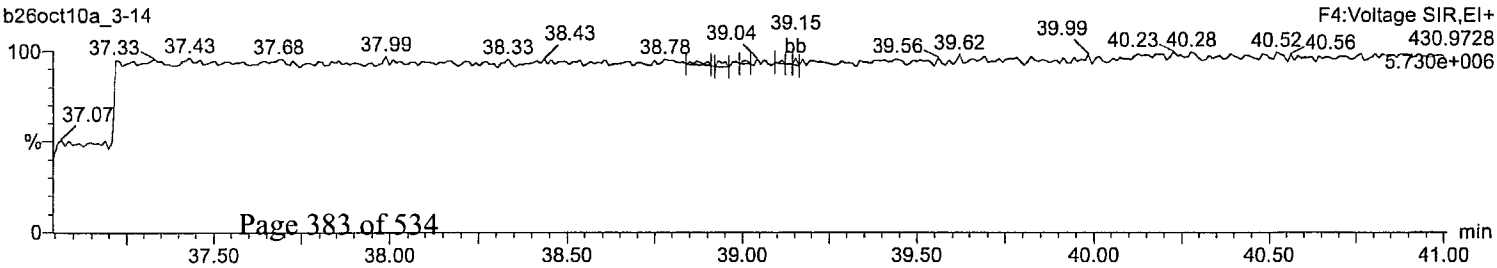


Lock Mass F4



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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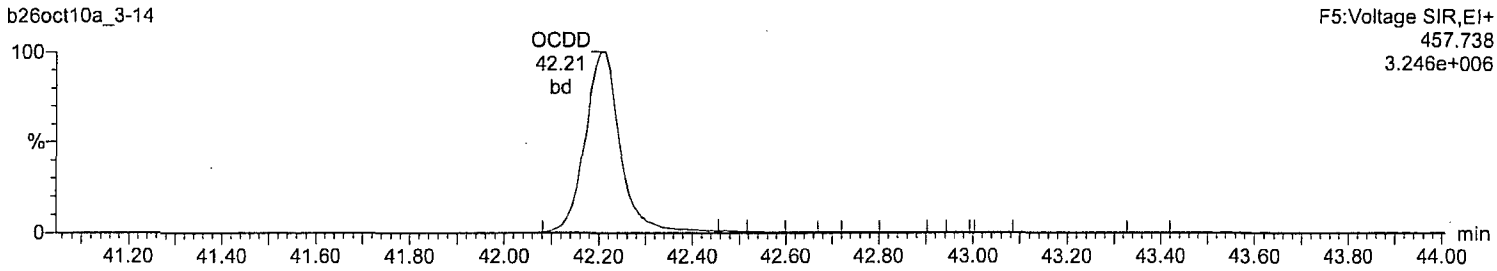
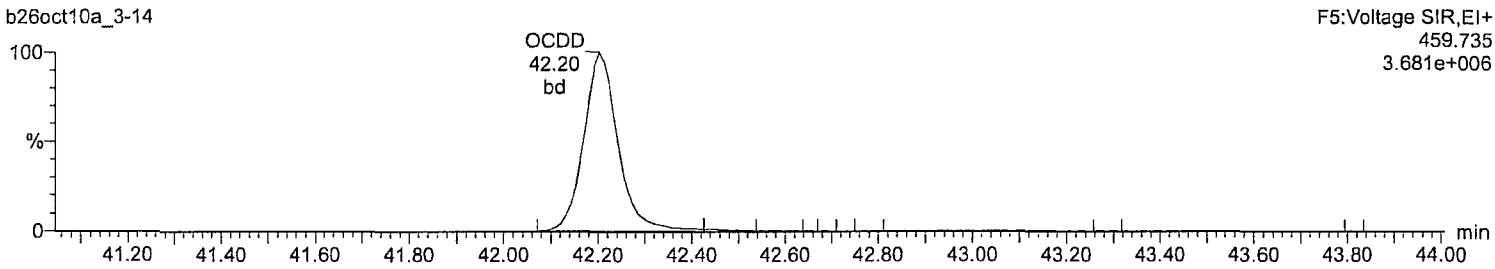
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

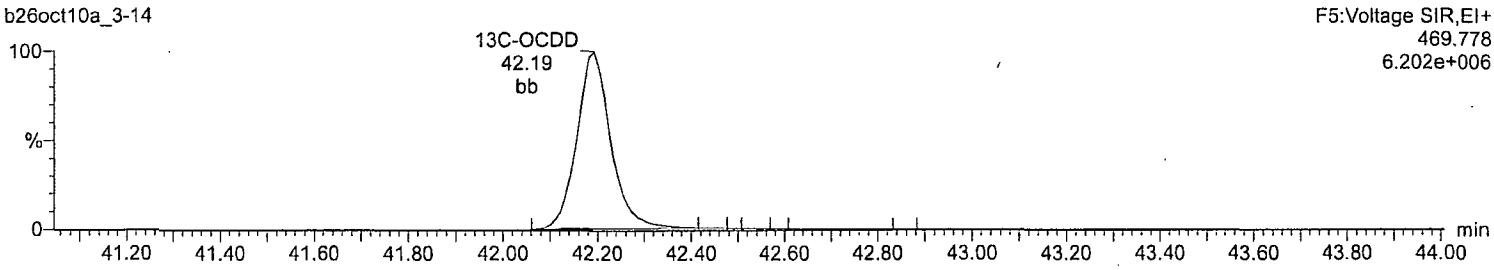
OCDD



OCDD



13C-OCDD



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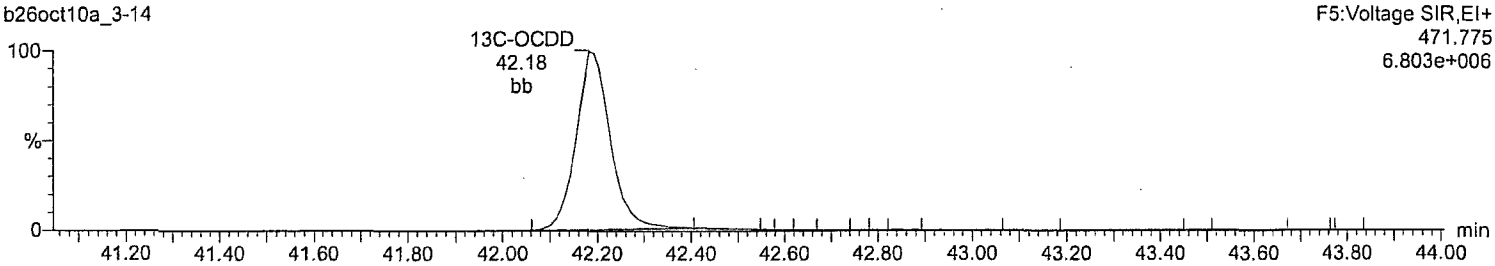
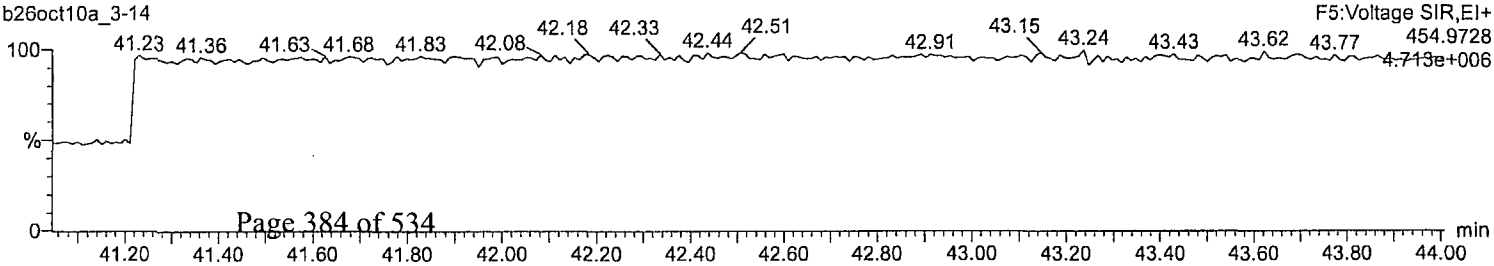


Lock Mass F5



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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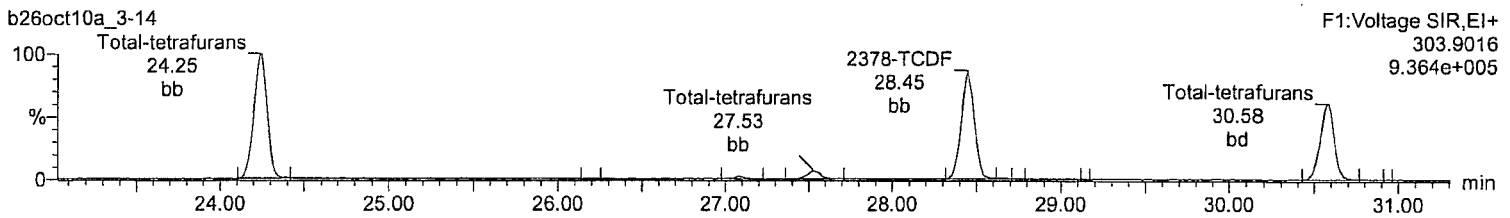
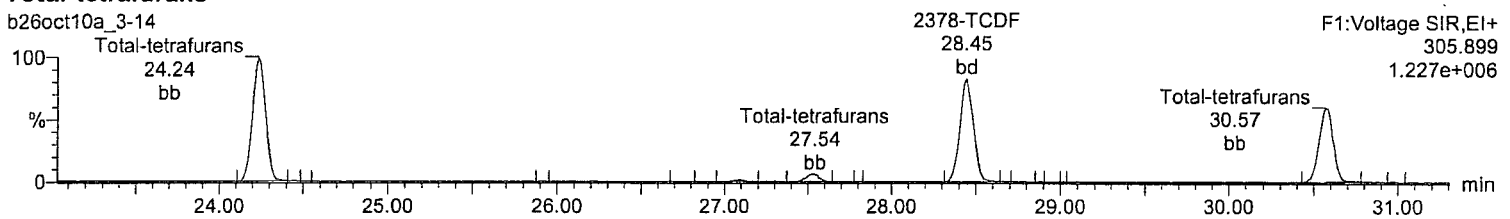
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

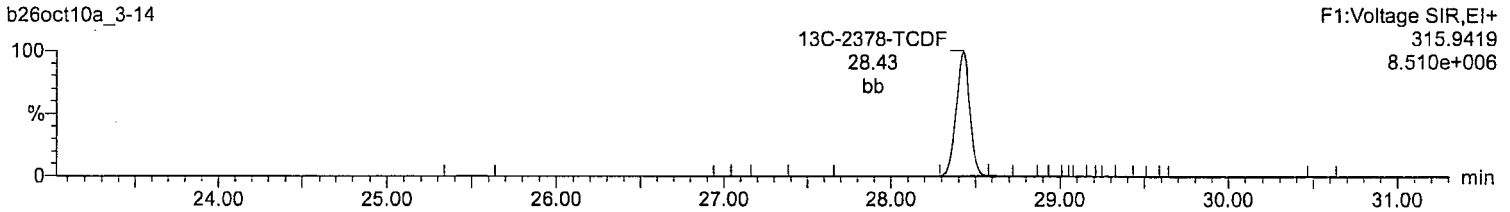
Total-tetrafurans



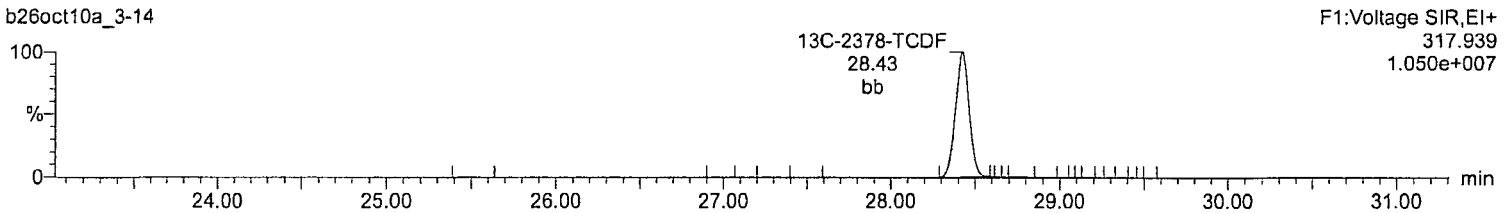
Total-tetrafurans



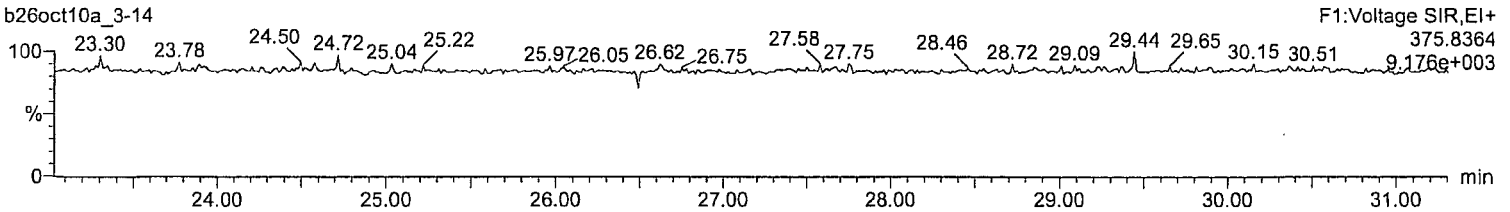
13C-2378-TCDF



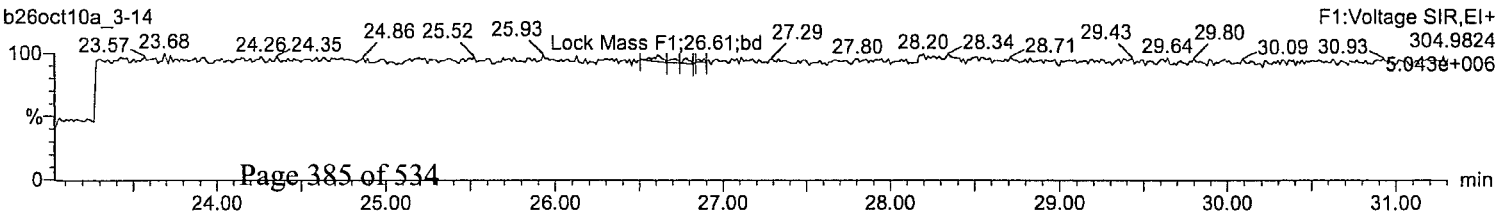
13C-2378-TCDF



HxDPE



Lock Mass F1



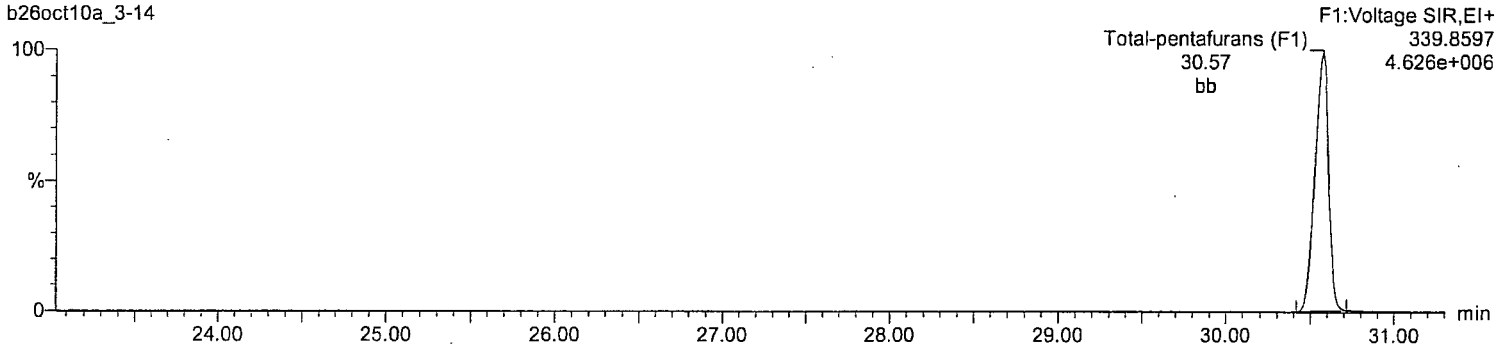
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

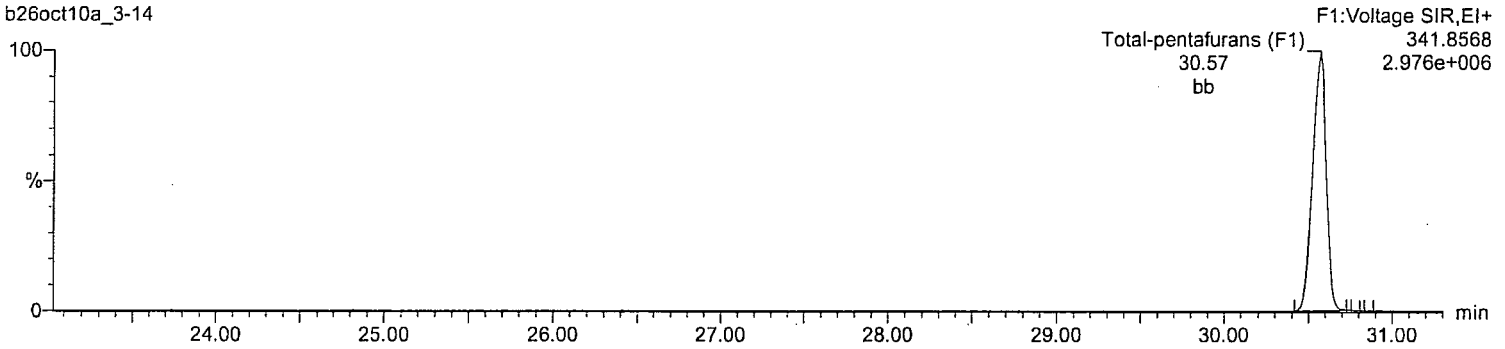
Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:06:18 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

Total-pentafurans (F1)



Total-pentafurans (F1)



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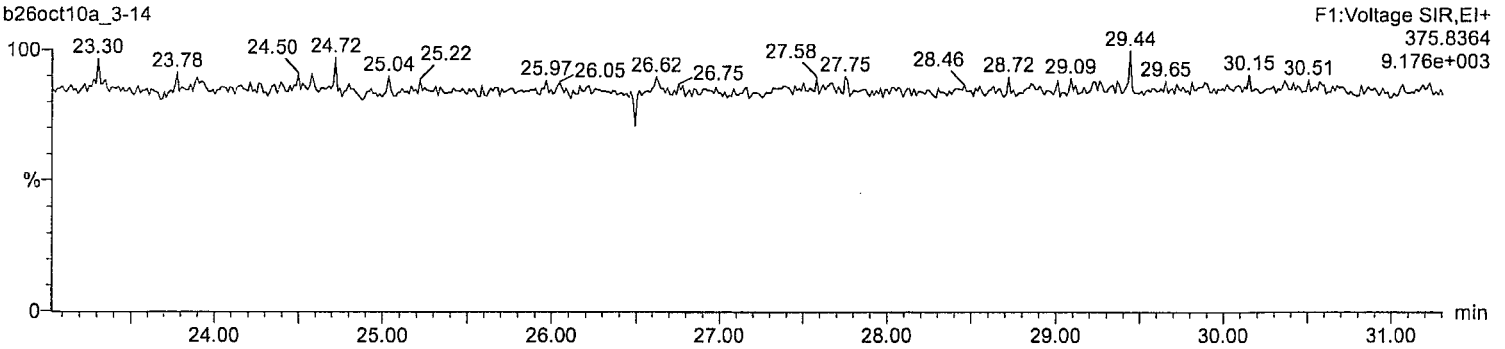
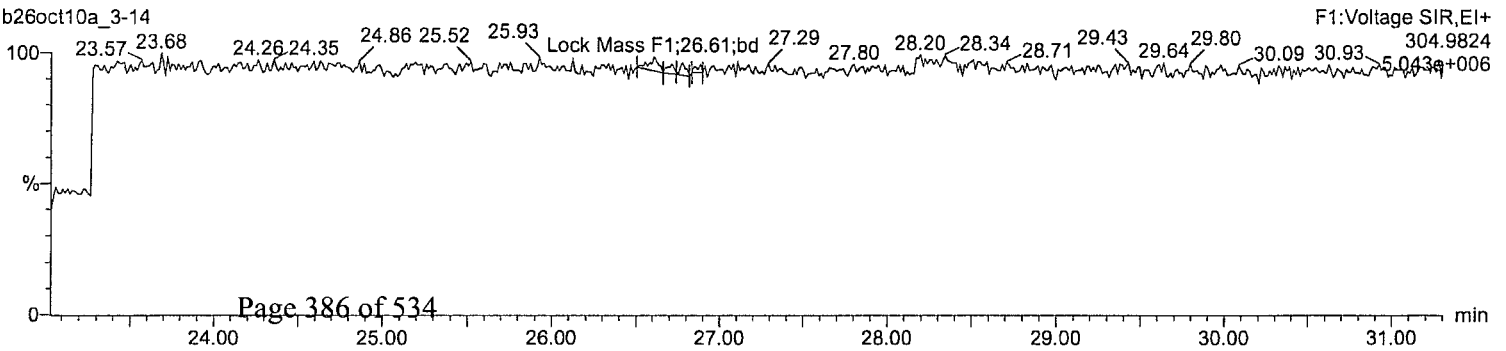


Lock Mass F1



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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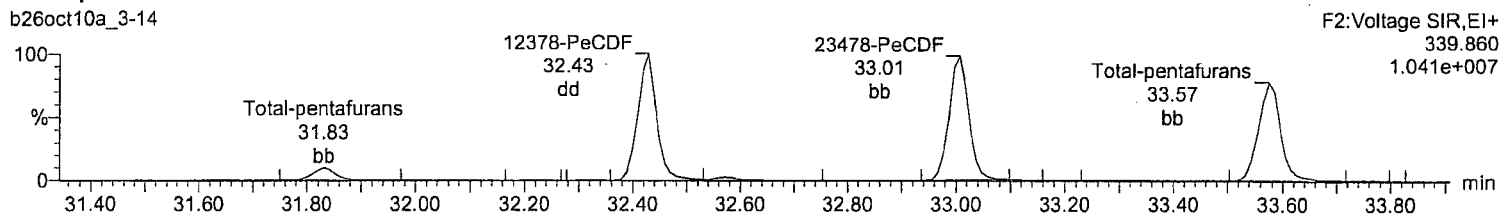
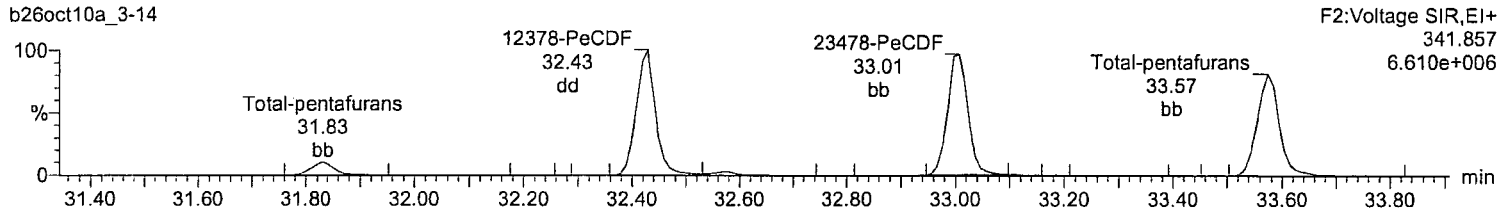
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

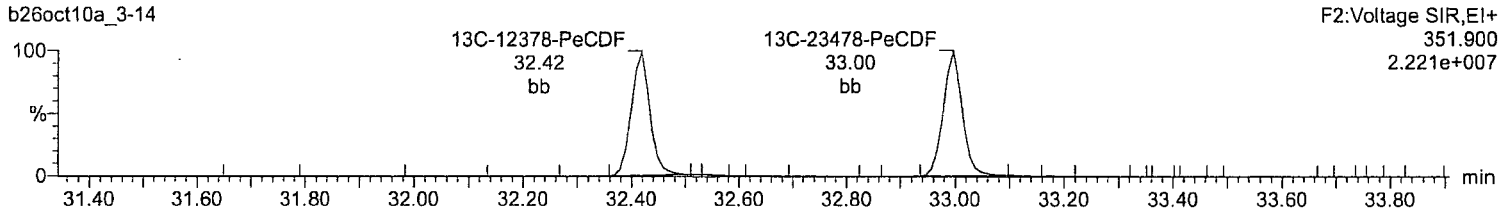
Total-pentafurans



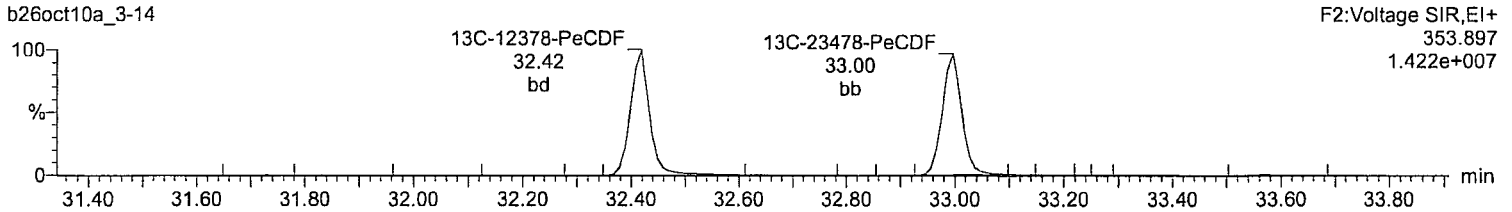
Total-pentafurans



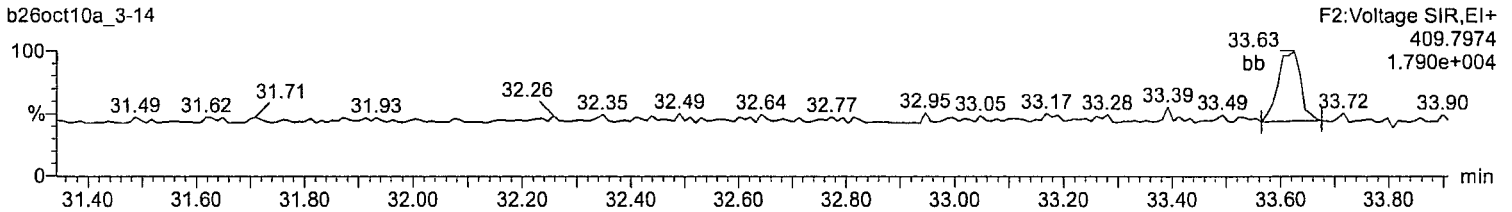
13C-12378-PeCDF



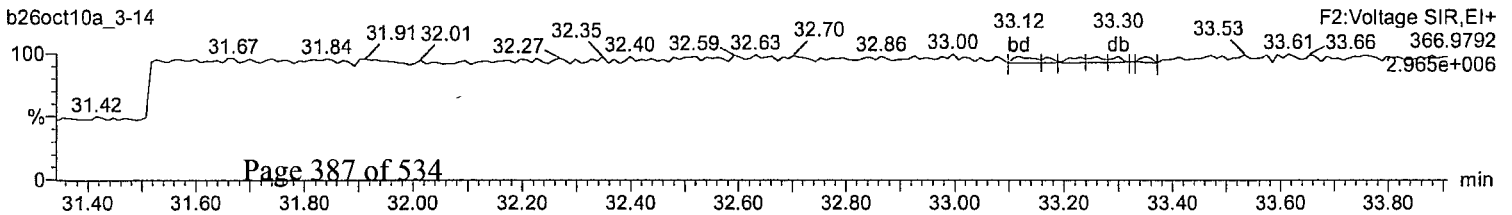
13C-12378-PeCDF



HpDPE



Lock Mass F2



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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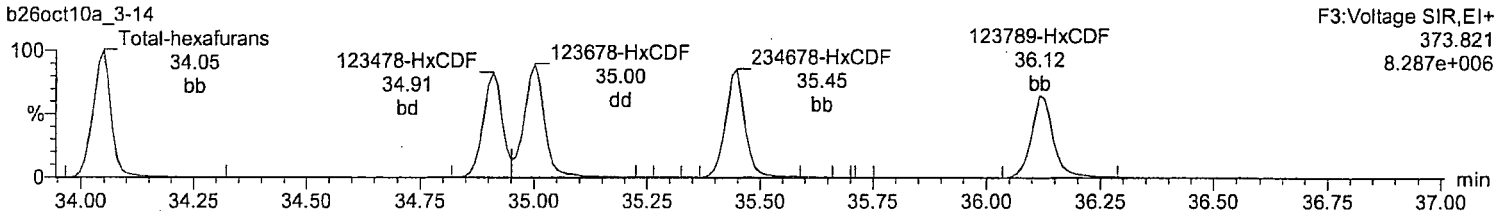
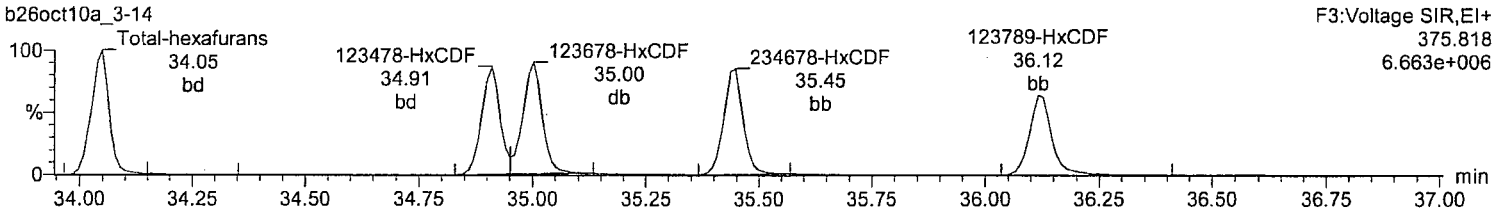
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

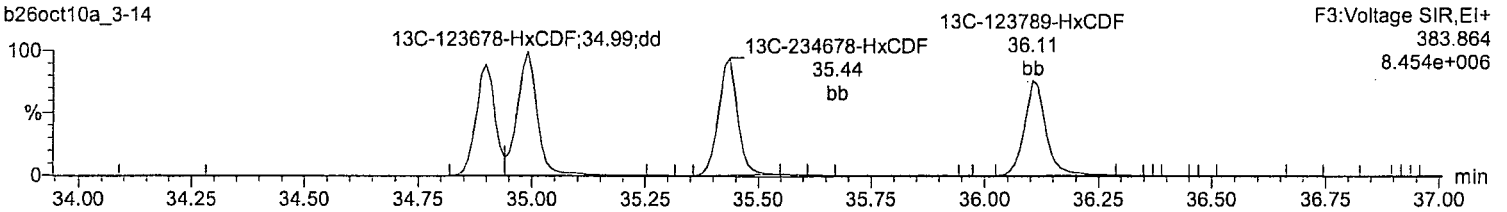
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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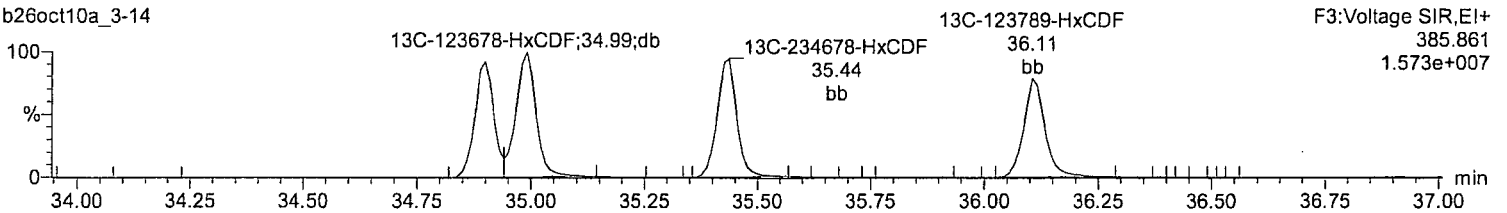
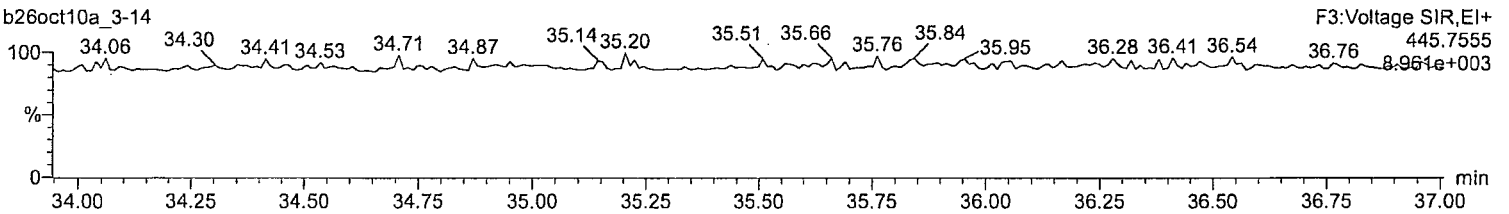
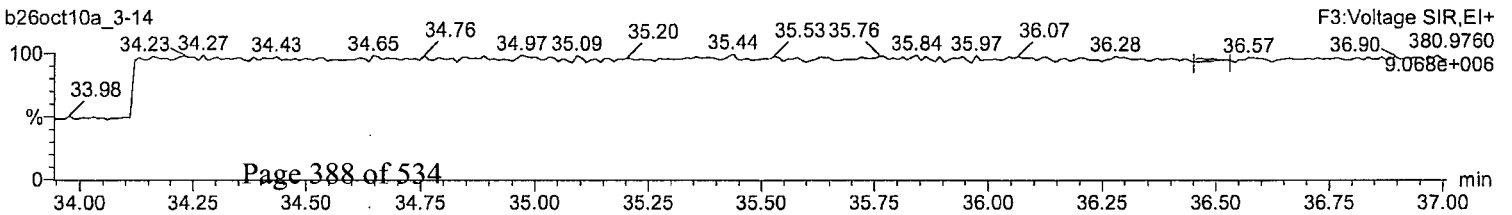


OcDPE



Lock Mass F3



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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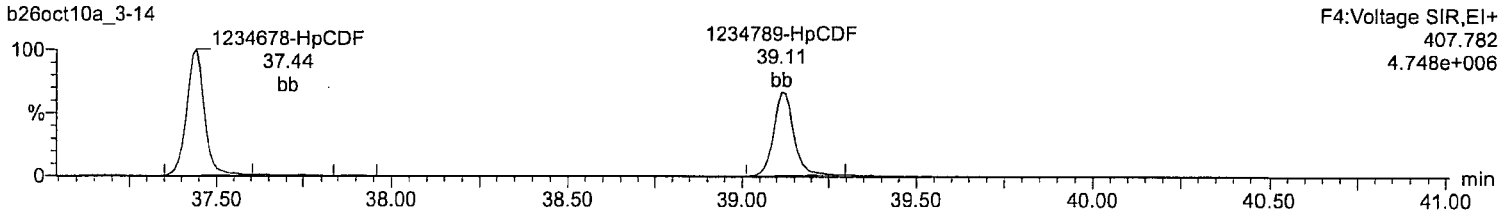
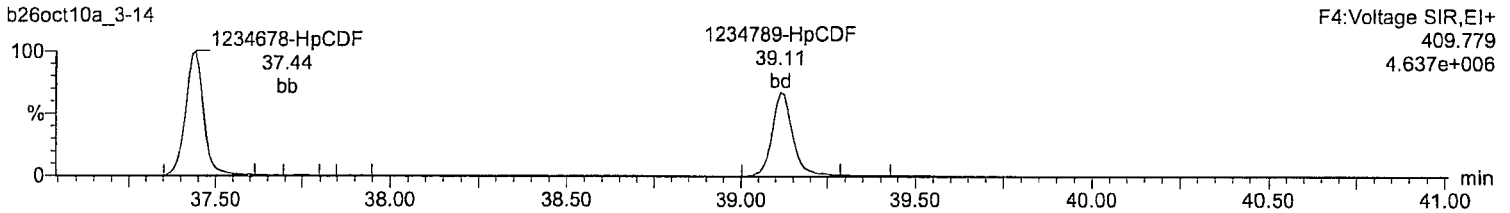
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

Total-heptafurans



Total-heptafurans



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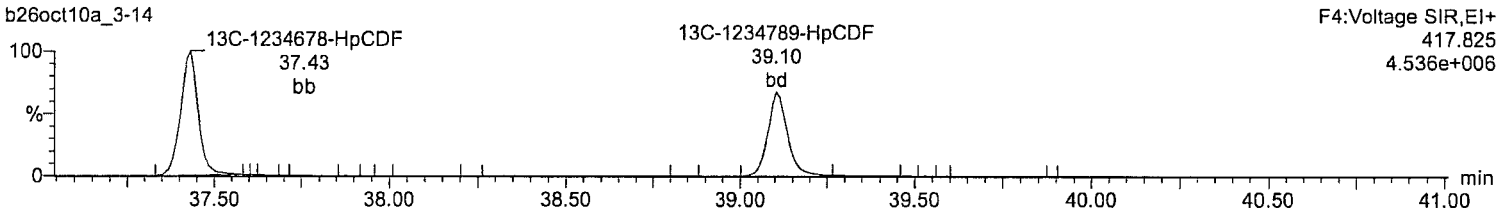
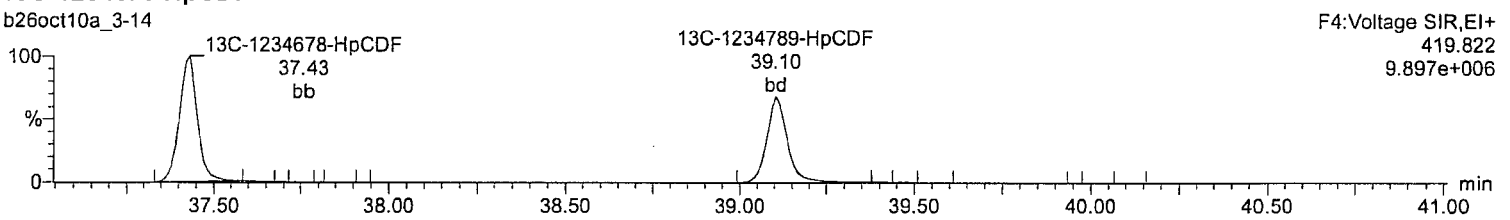


13C-1234678-HpCDF



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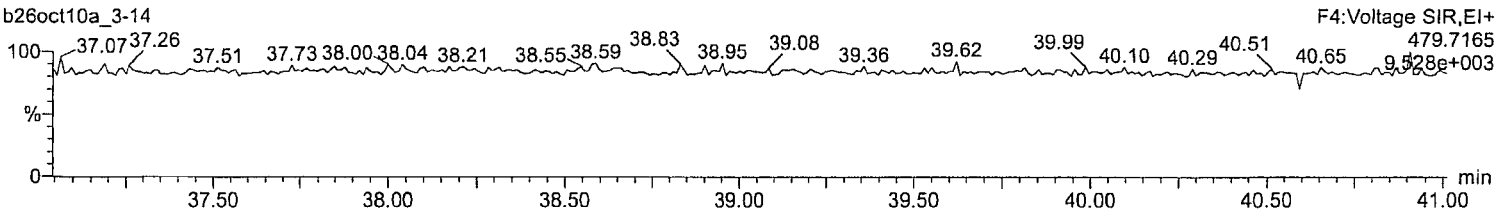
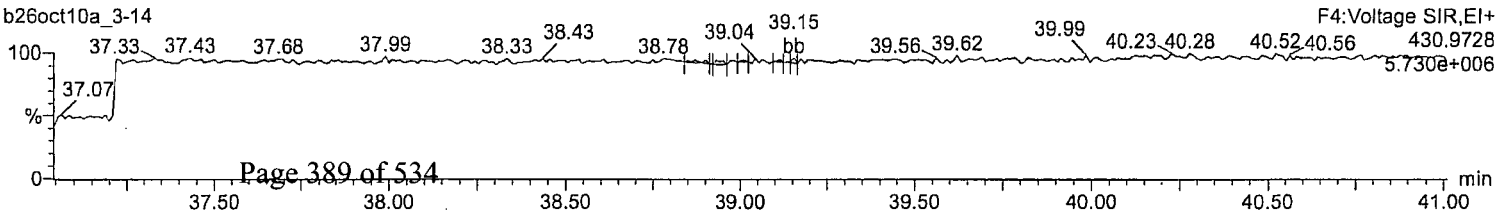


Lock Mass F4



Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:05:11 Eastern Standard Time
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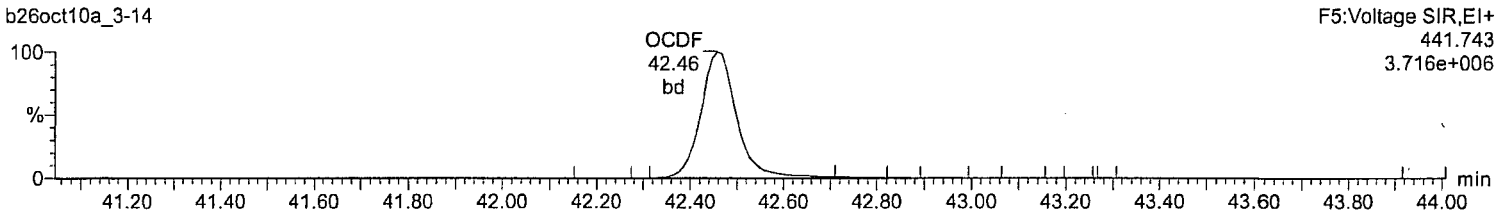
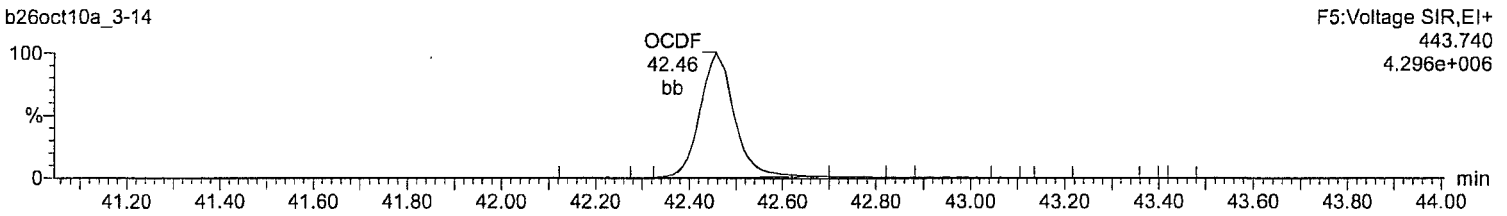
Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

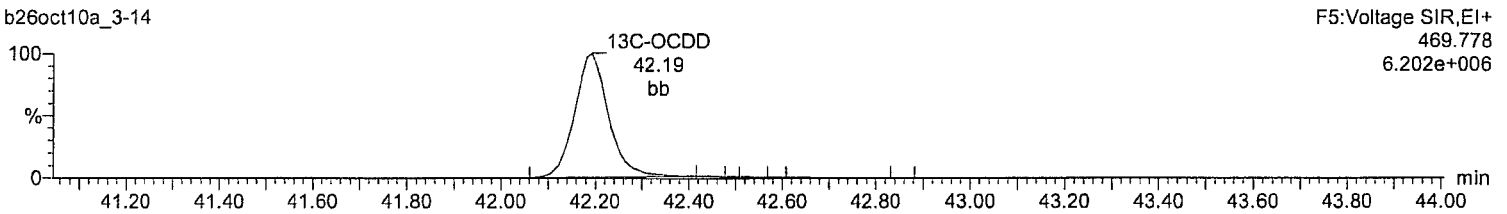
OCDF



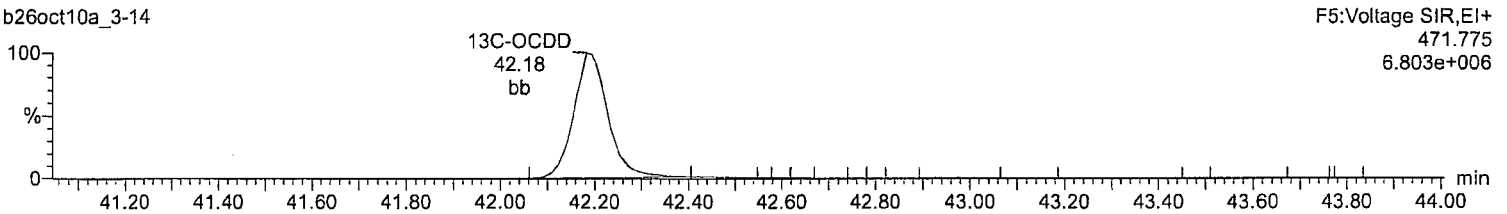
OCDF



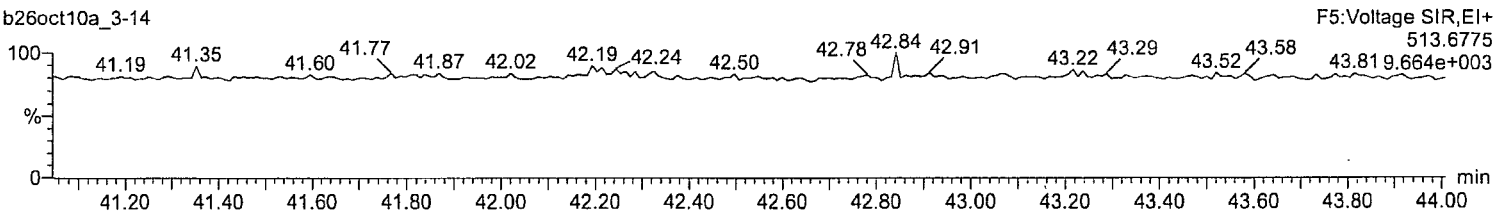
13C-OCDD



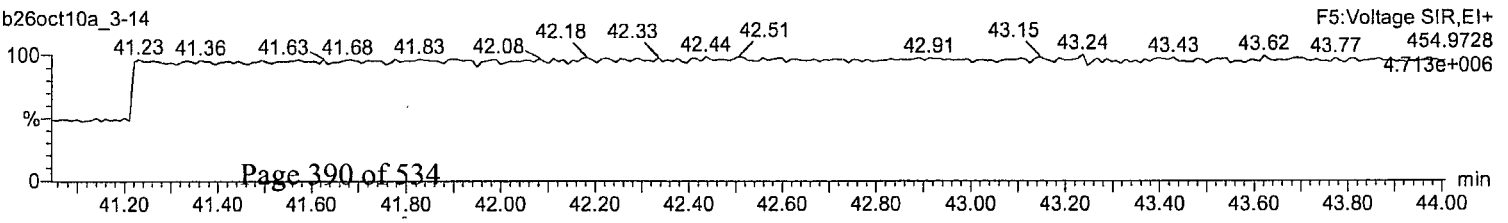
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.89e4	6.14e4	1.10e5	29.38	1.001	0.80	NO	11.440	0.0757	1.058	14.4	4.87e5	1212	401.9	6.08e5	1311	464.0	dd
2	12378-PeCDD	2.78e5	1.76e5	4.54e5	33.19	1.000	1.58	NO	52.774	0.0799	1.046	5.5	6.44e6	3006	2141.5	4.06e6	2354	1725.1	bb
3	123478-HxCDD	2.29e5	1.81e5	4.09e5	35.56	0.998	1.27	NO	57.726	0.159	0.904	15.5	4.69e6	3989	1175.4	3.70e6	3272	1131.5	bd
4	123678-HxCDD	2.47e5	1.92e5	4.38e5	35.64	1.000	1.29	NO	52.755	0.135	0.969	5.5	4.77e6	3989	1196.4	3.86e6	3272	1178.6	dd
5	123789-HxCDD	2.43e5	1.82e5	4.25e5	35.85	1.006	1.34	NO	56.227	0.149	0.940	12.5	4.50e6	3989	1129.2	3.36e6	3272	1025.7	dd
6	1234678-HpCDD	1.73e5	1.65e5	3.38e5	38.55	1.000	1.04	NO	52.638	0.203	1.038	5.3	2.75e6	3108	884.3	2.54e6	3712	684.0	bd
7	OCDD	2.76e5	3.07e5	5.83e5	42.21	1.000	0.90	NO	110.606	0.198	1.085	10.6	3.23e6	2150	1504.3	3.67e6	2057	1783.8	bd
8	2378-TCDF	7.21e4	9.41e4	1.66e5	28.45	1.000	0.77	NO	9.970	0.0447	0.936	-0.3	8.06e5	1199	672.6	1.01e6	1466	691.5	bb
9	12378-PeCDF	4.23e5	2.74e5	6.97e5	32.43	1.000	1.54	NO	53.727	0.111	0.954	7.5	1.04e7	8049	1292.1	6.60e6	3923	1682.8	dd
10	23478-PeCDF	4.26e5	2.77e5	7.03e5	33.01	1.018	1.54	NO	53.556	0.109	0.963	7.1	1.02e7	8049	1266.2	6.36e6	3923	1620.7	bb
11	123478-HxCDF	3.23e5	2.64e5	5.88e5	34.91	0.998	1.22	NO	56.919	0.170	0.962	13.8	6.81e6	6711	1014.7	5.73e6	4848	1182.0	bd
12	123678-HxCDF	3.77e5	2.95e5	6.73e5	35.00	1.000	1.28	NO	52.506	0.137	1.101	5.0	7.37e6	6711	1097.8	5.96e6	4848	1228.7	dd
13	234678-HxCDF	3.42e5	2.78e5	6.20e5	35.45	1.013	1.23	NO	53.929	0.153	1.015	7.9	7.06e6	6711	1052.6	5.64e6	4848	1164.1	bb
14	123789-HxCDF	2.93e5	2.42e5	5.35e5	36.12	1.032	1.21	NO	57.371	0.188	0.876	14.7	5.37e6	6711	799.8	4.27e6	4848	880.9	bb
15	1234678-HpCDF	2.74e5	2.72e5	5.46e5	37.44	1.000	1.01	NO	52.178	0.122	1.317	4.4	4.72e6	3509	1346.3	4.61e6	3899	1183.3	bb
16	1234789-HpCDF	2.14e5	2.12e5	4.26e5	39.11	1.045	1.01	NO	53.555	0.160	1.028	7.1	3.15e6	3509	898.6	3.10e6	3899	793.9	bb
17	OCDF	3.26e5	3.59e5	6.84e5	42.46	1.006	0.91	NO	106.440	0.274	1.274	6.4	3.71e6	2744	1350.7	4.27e6	4353	981.3	bd
18	13C-2378-TCDD	4.62e5	5.81e5	1.04e6	29.35	1.025	0.79	NO	92.442	0.0978	1.024	-7.6	4.78e6	2159	2216.3	5.99e6	1746	3432.6	bb
19	13C-12378-PeCDD	5.33e5	3.36e5	8.68e5	33.18	1.158	1.59	NO	102.353	0.163	0.853	2.4	1.25e7	2462	5057.9	7.76e6	2422	3205.5	bb
20	13C-123678-HxCDD	5.03e5	4.02e5	9.05e5	35.63	0.994	1.25	NO	96.706	0.143	1.058	-3.3	9.74e6	4507	2161.0	7.89e6	3689	2137.9	dd
21	13C-1234678-HpCDD	3.39e5	3.13e5	6.51e5	38.54	1.075	1.08	NO	100.974	0.161	0.761	1.0	5.31e6	3275	1620.6	5.01e6	3073	1630.4	bd
22	13C-OCDD	5.11e5	5.64e5	1.07e6	42.19	1.177	0.91	NO	191.116	0.205	0.628	-4.4	6.16e6	3724	1655.3	6.76e6	3339	2025.0	bb
23	13C-2378-TCDF	7.89e5	9.88e5	1.78e6	28.43	0.993	0.80	NO	101.169	0.0556	1.745	1.2	8.46e6	1783	4746.9	1.05e7	1675	6237.8	bb
24	13C-12378-PeCDF	8.79e5	5.81e5	1.46e6	32.42	1.132	1.51	NO	101.341	0.136	1.434	1.3	2.20e7	3133	7023.6	1.42e7	3807	3731.5	bb
25	13C-123678-HxCDF	4.27e5	7.95e5	1.22e6	34.99	0.976	0.54	NO	96.939	0.159	1.428	-3.1	8.44e6	5045	1672.5	1.56e7	7218	2168.0	dd
26	13C-1234678-HpCDF	2.58e5	5.71e5	8.29e5	37.43	1.044	0.45	NO	100.772	0.145	0.969	0.8	4.51e6	3055	1475.9	9.85e6	4260	2313.3	bb
27	13C-1234-TCDD	4.50e5	5.69e5	1.02e6	28.64	0.000	0.79	NO	100.000	0.108	1.000	0.0	4.78e6	2159	2213.0	5.99e6	1746	3428.5	bb
28	13C-123789-HxCDD	4.67e5	3.89e5	8.55e5	35.84	0.000	1.20	NO	100.000	0.157	1.000	0.0	8.56e6	4507	1899.1	7.04e6	3689	1907.8	db
29	37Cl-2378-TCDD (SS)	1.15e5		1.15e5	29.39	1.001			10.839	0.0339	1.107	8.4	1.16e6	1249	925.7				bb
30	13C-23478-PeCDF (SS)	8.87e5	5.62e5	1.45e6	33.00	1.018	1.58	NO	104.735	0.0601	0.992	4.7	2.21e7	3133	7056.9	1.37e7	3807	3598.1	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-123478-HxCDF (SS)	3.58e5	6.86e5	1.04e6	34.90	0.997	0.52	NO	111.432	0.199	0.854	11.4	7.55e6	5045	1496.9	1.45e7	7218	2005.4	bd
32	13C-123478-HxCDD (SS)	4.49e5	3.53e5	8.03e5	35.55	0.998	1.27	NO	113.557	0.180	0.887	13.6	9.02e6	4507	2001.3	7.28e6	3689	1972.8	bd
33	13C-1234789-HpCDF (SS)	2.02e5	4.59e5	6.61e5	39.10	1.045	0.44	NO	102.389	0.194	0.798	2.4	3.08e6	3055	1006.8	6.74e6	4260	1583.1	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

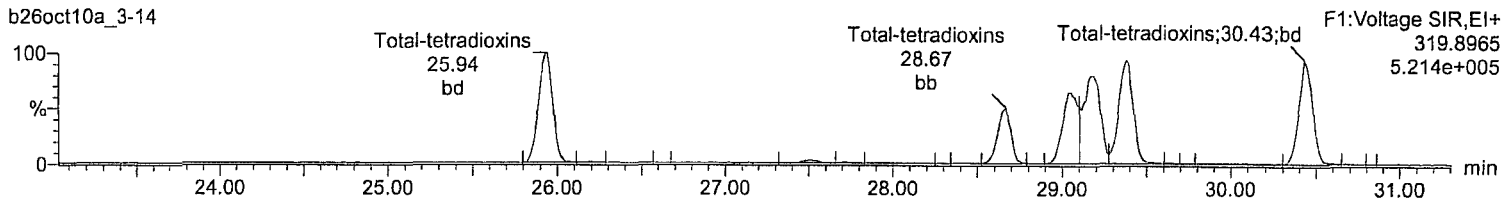
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

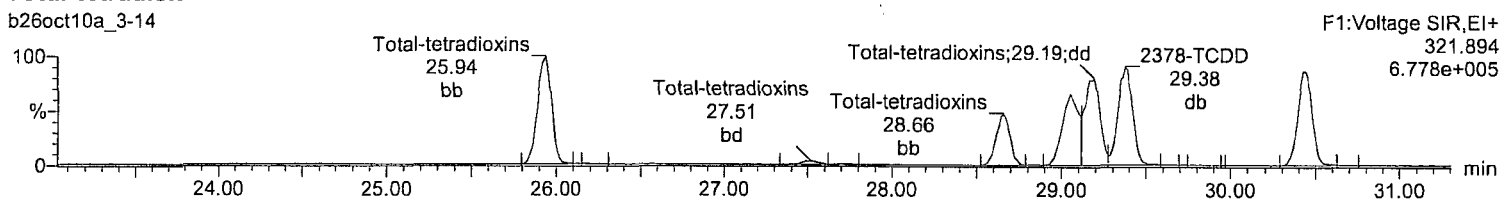
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

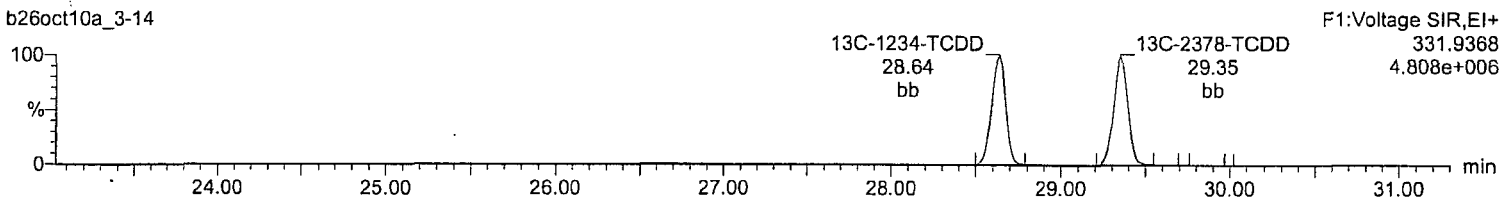
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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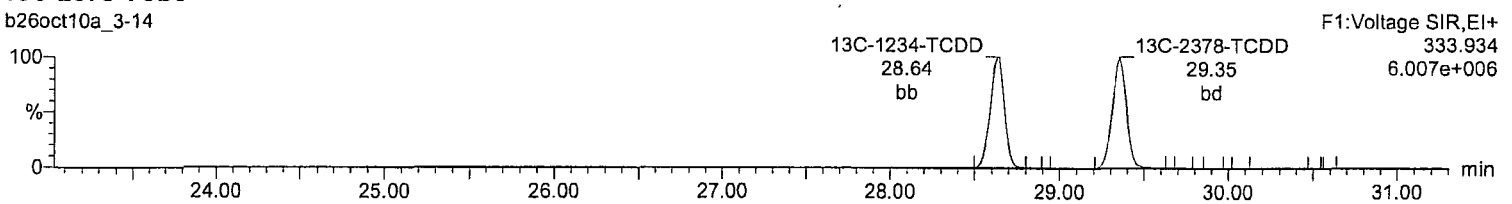
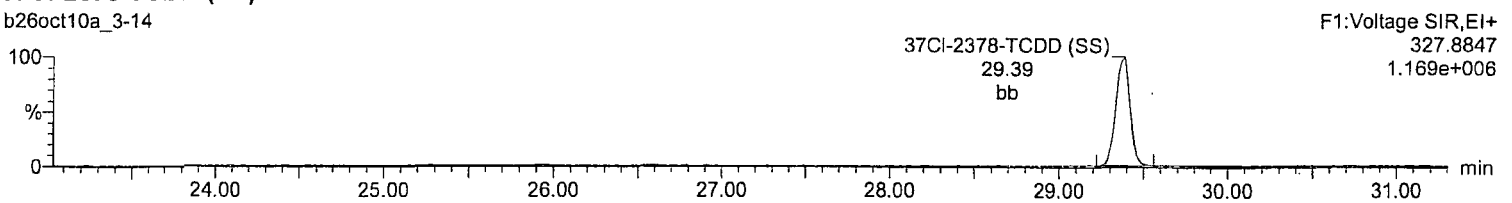
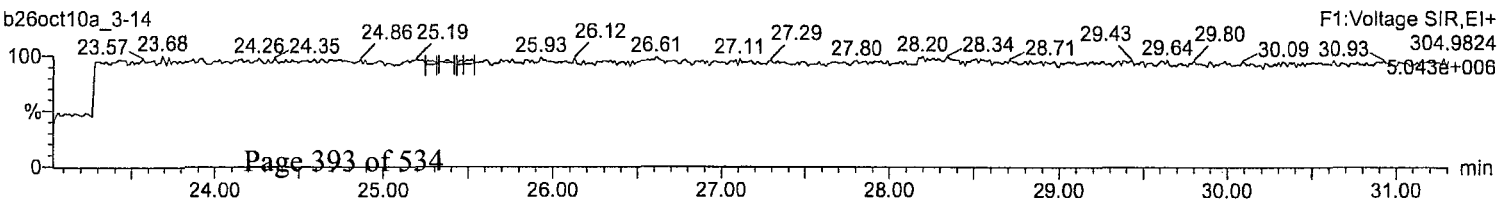


37Cl-2378-TCDD (SS)



Lock Mass F1



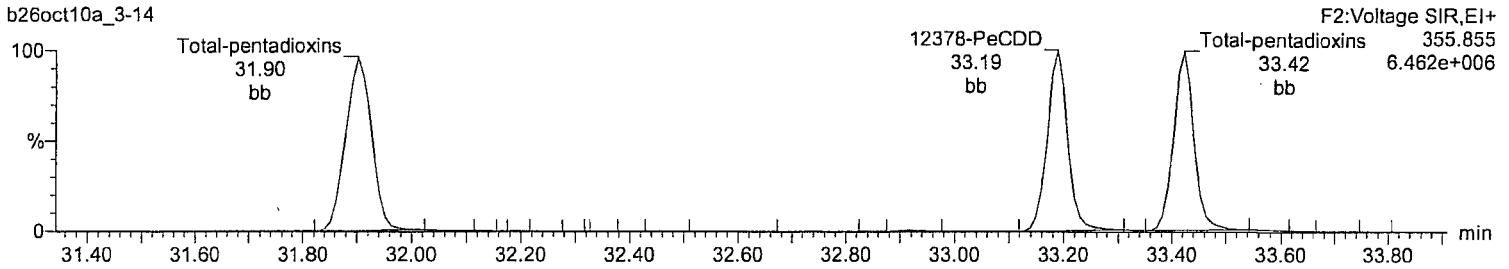
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

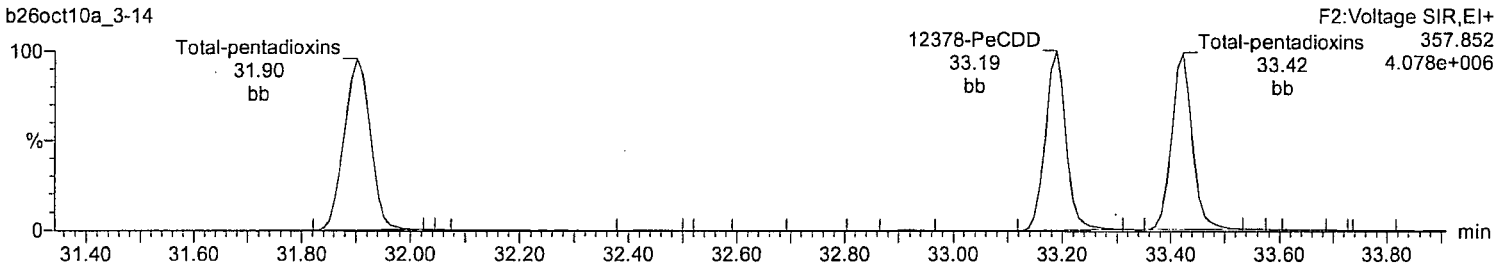
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

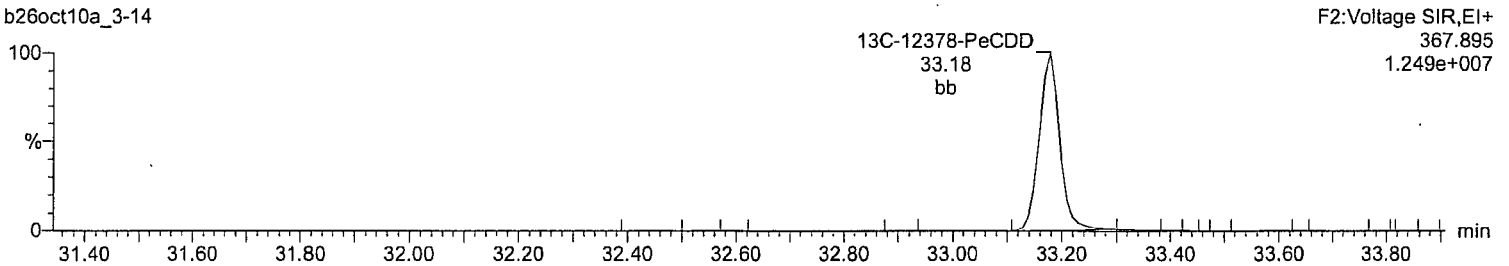
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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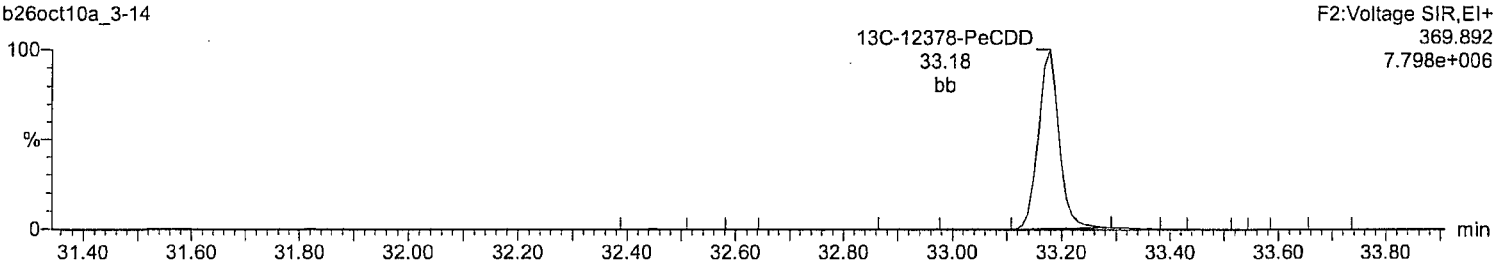
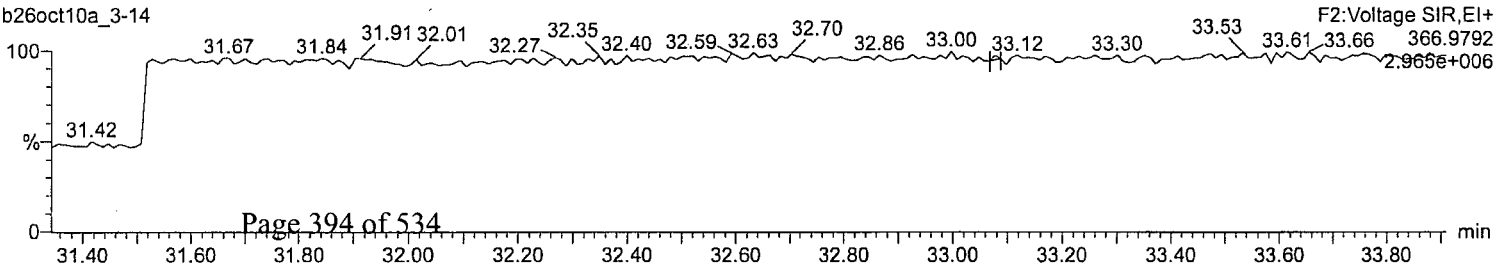


Lock Mass F2



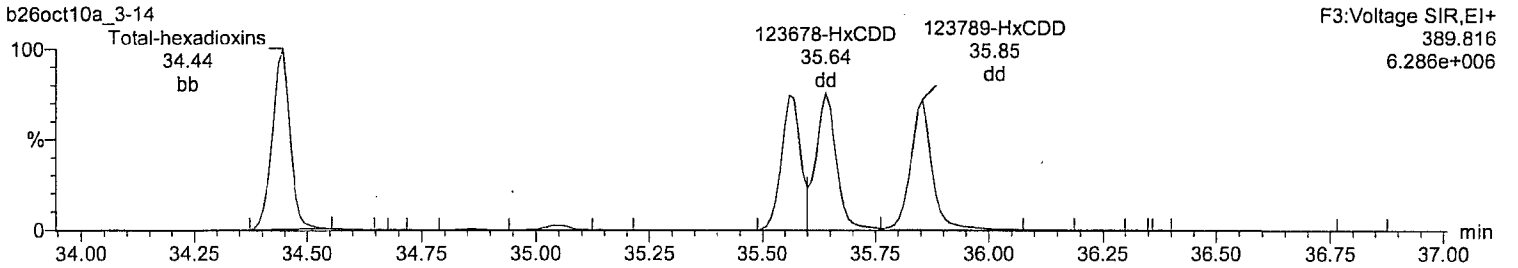
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

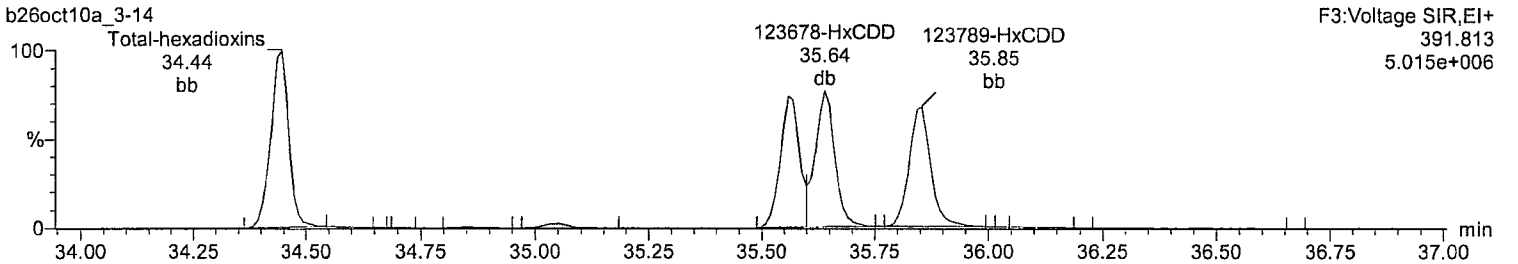
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

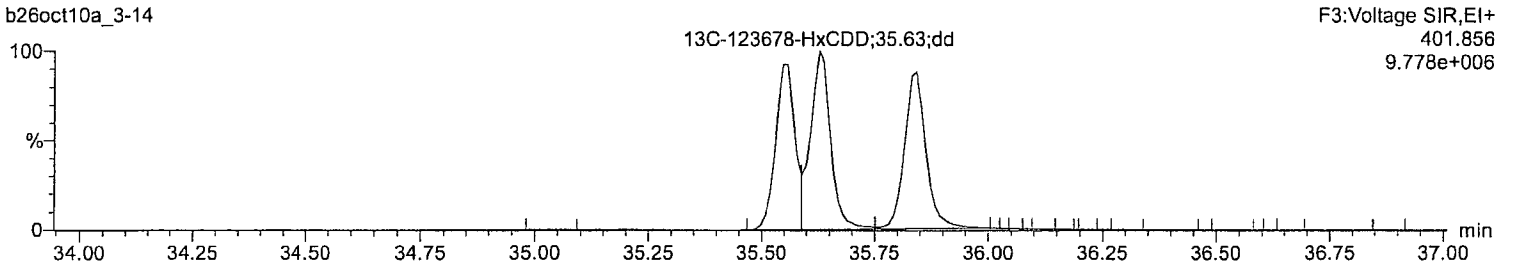
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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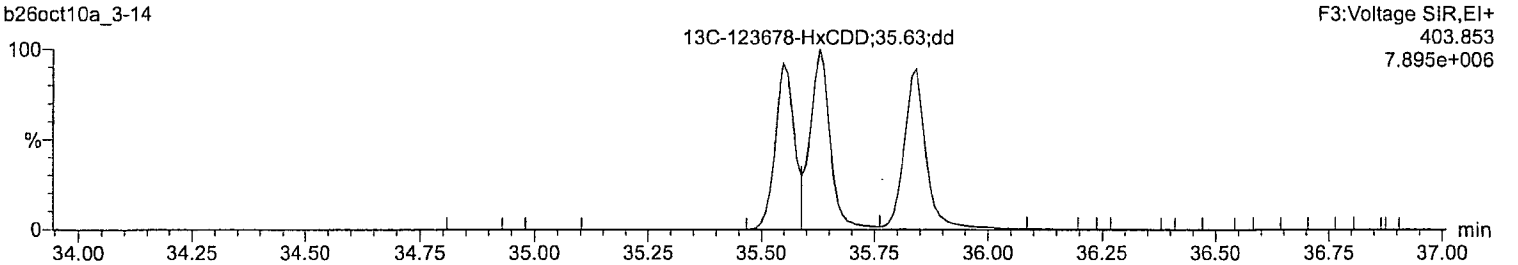
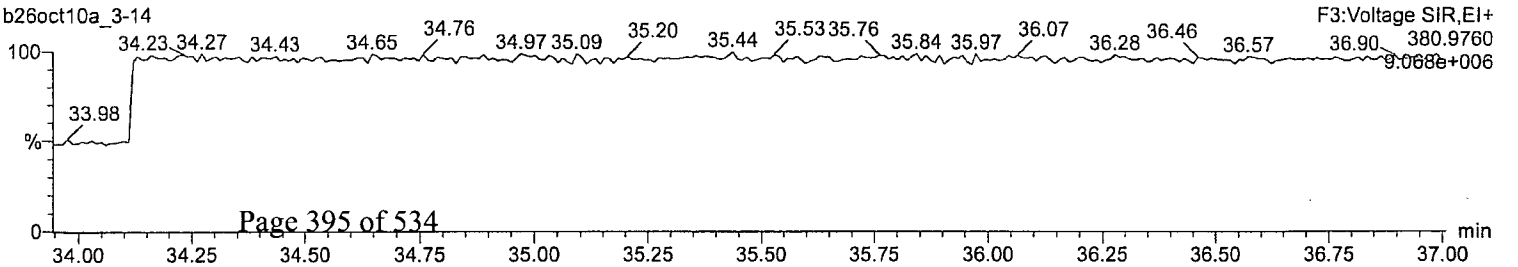


Lock Mass F3



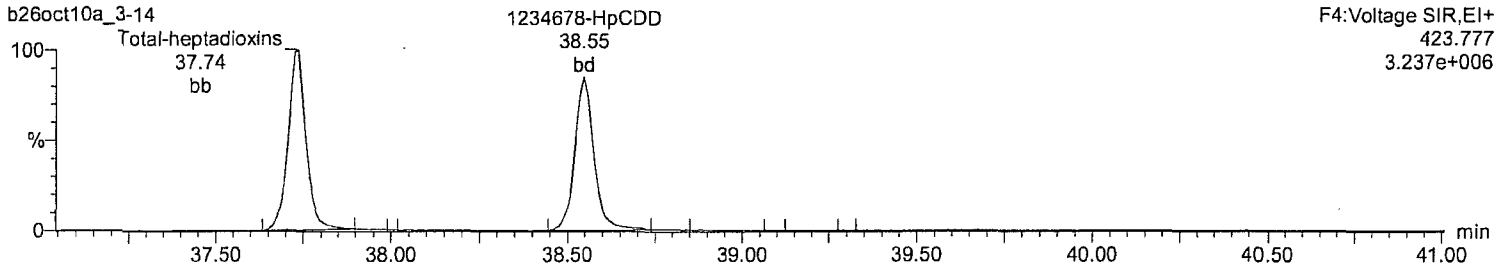
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

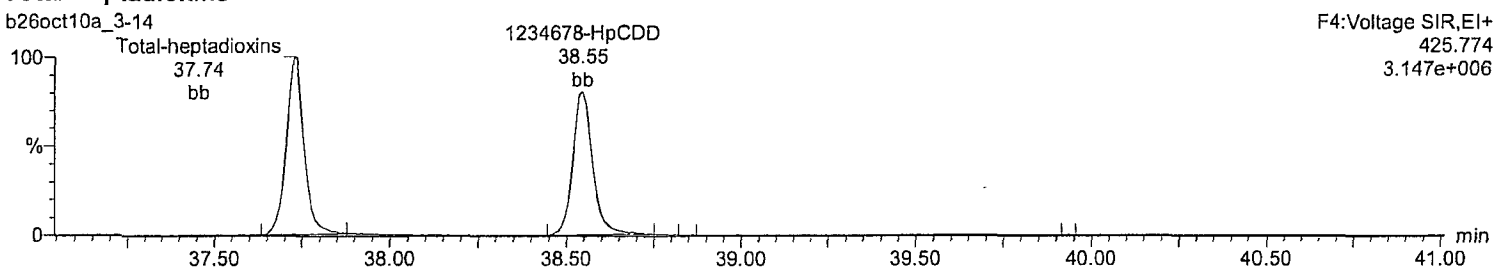
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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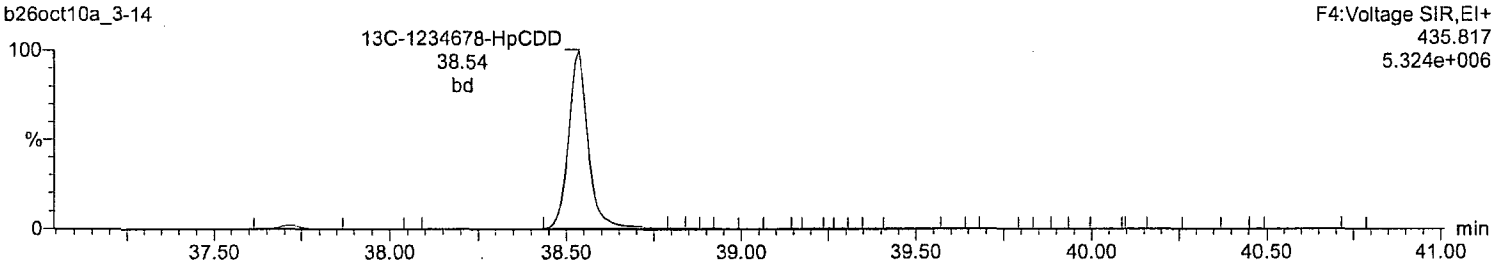

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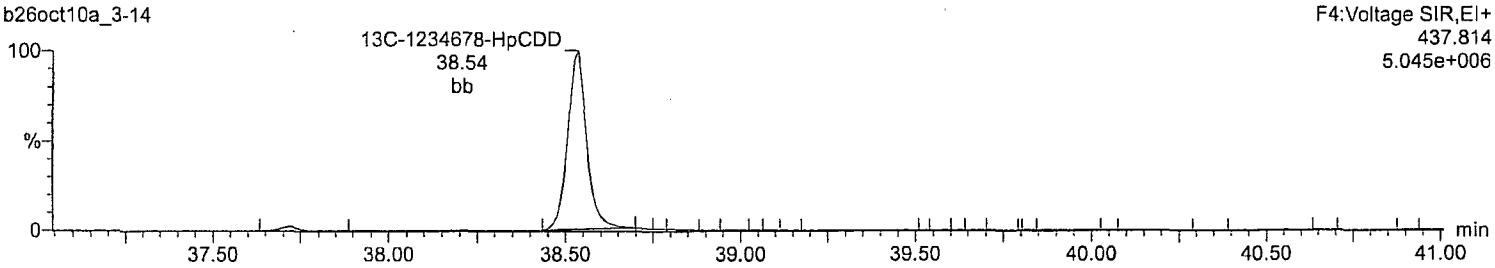
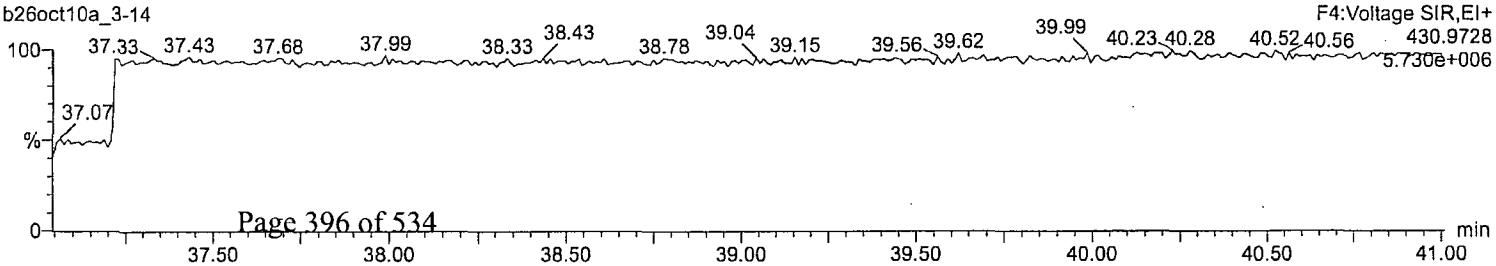


Lock Mass F4



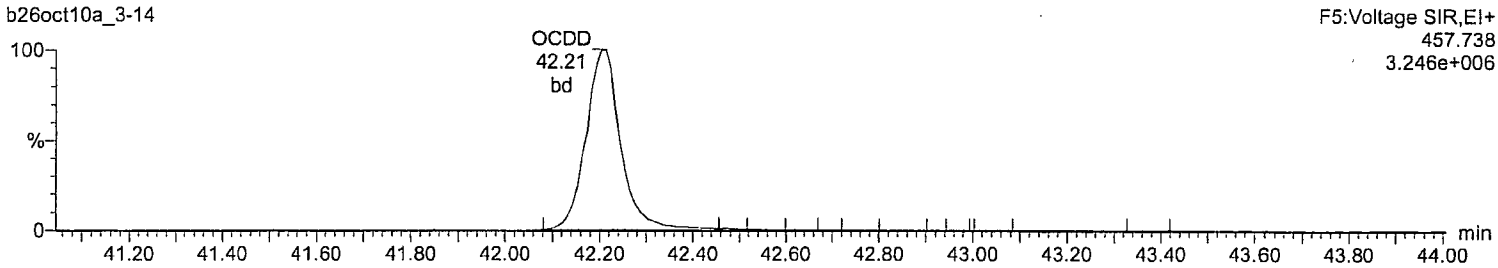
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

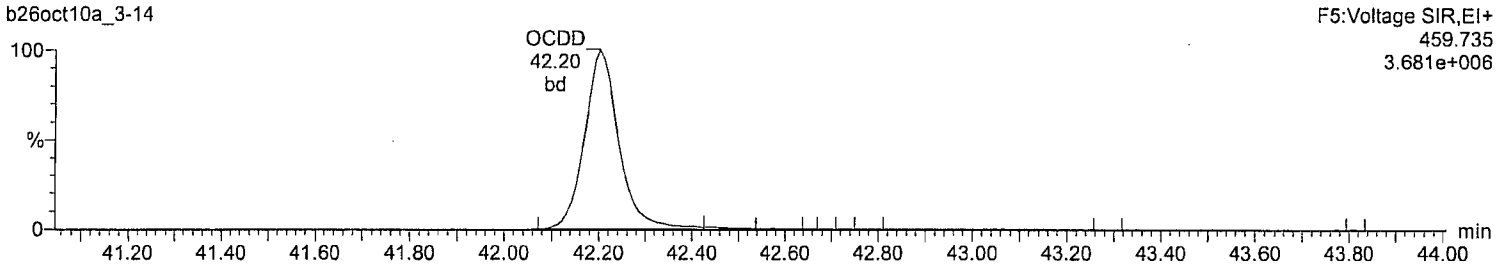
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

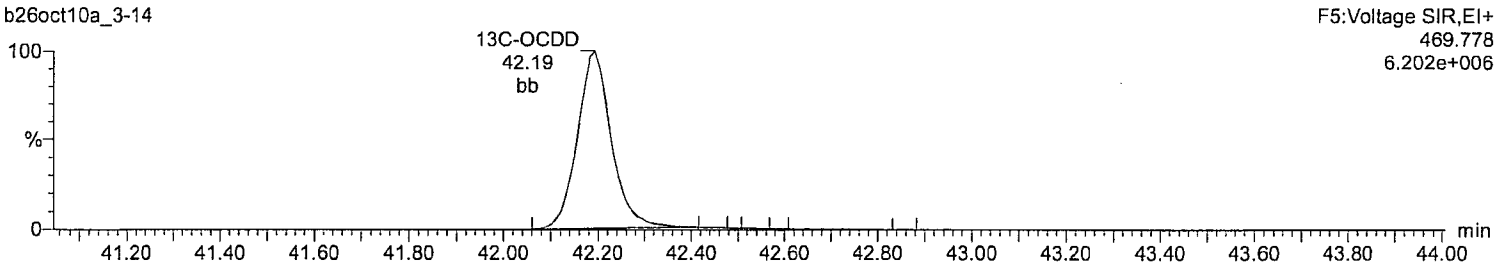
OCDD



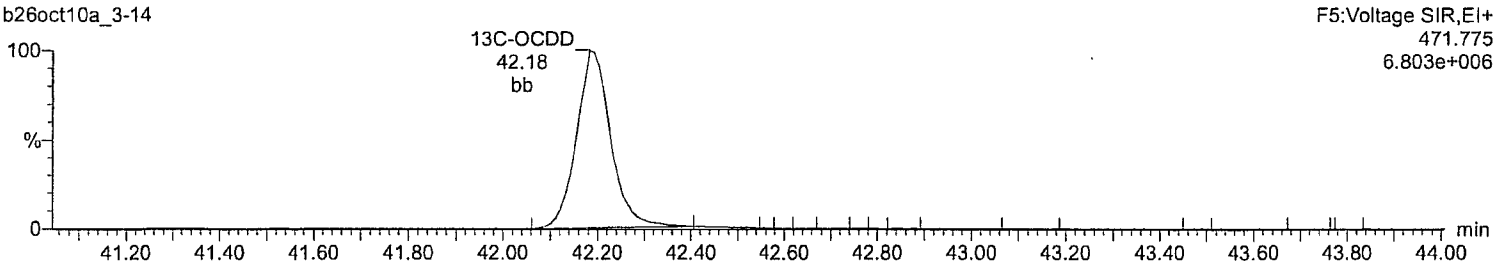
OCDD



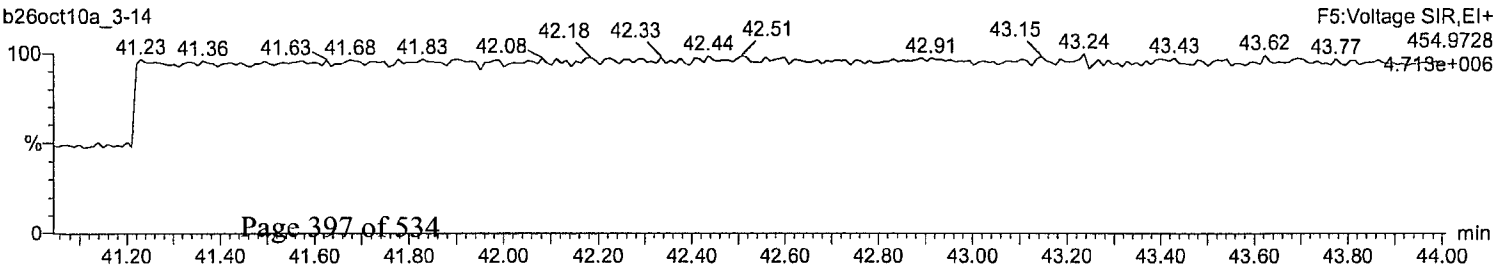
13C-OCDD



13C-OCDD



Lock Mass F5



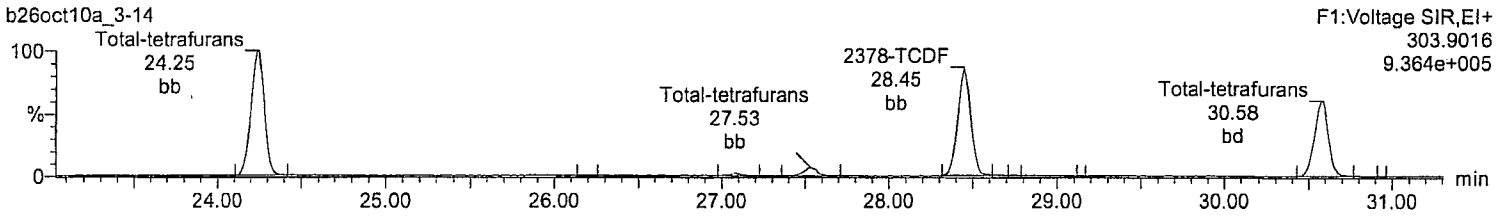
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

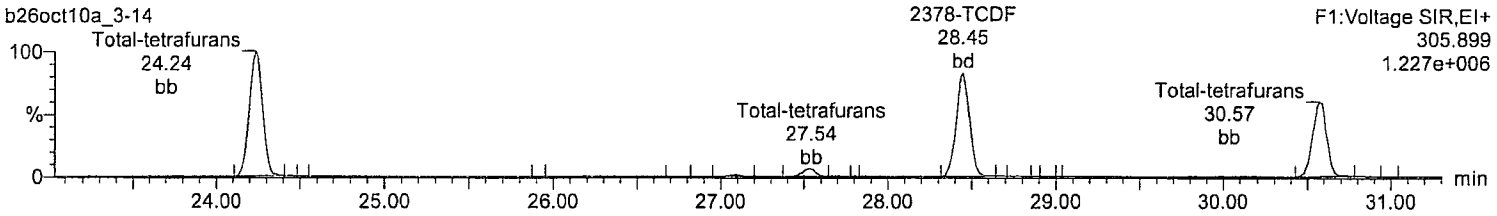
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

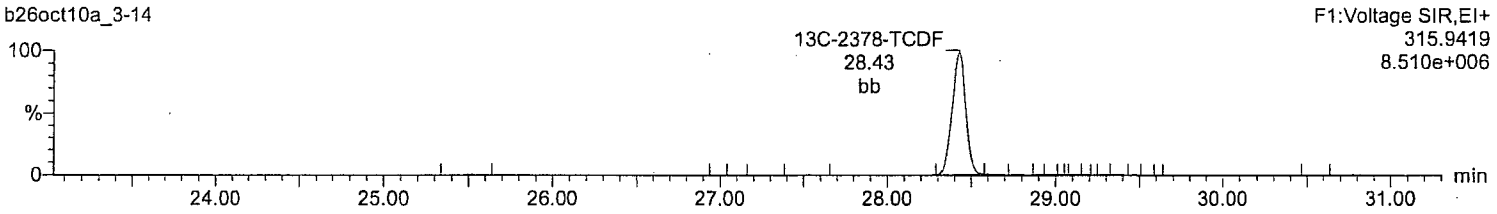
Total-tetrafurans



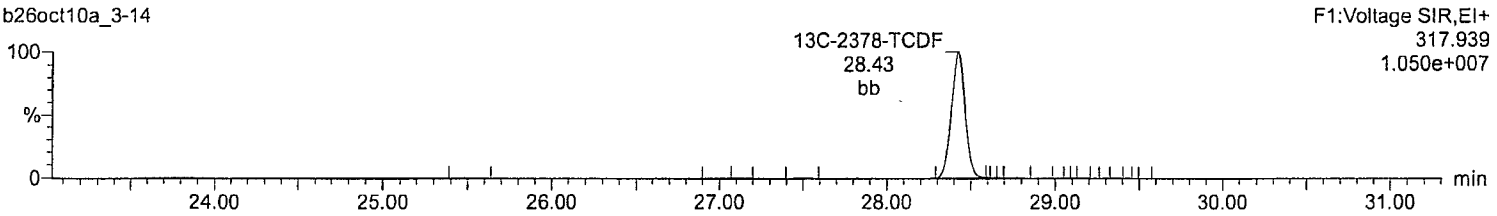
Total-tetrafurans



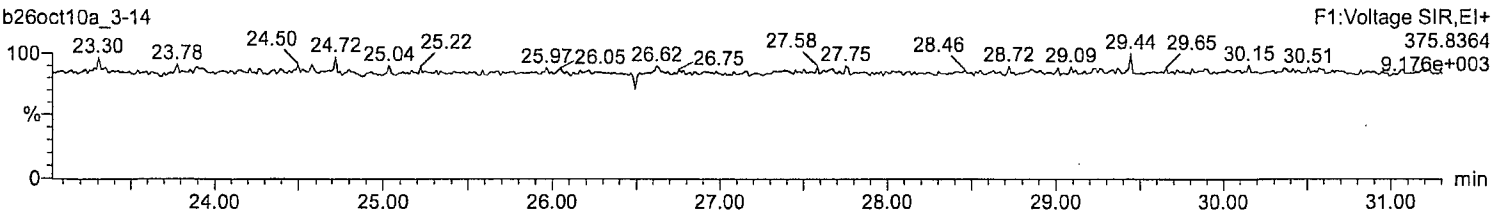
13C-2378-TCDF



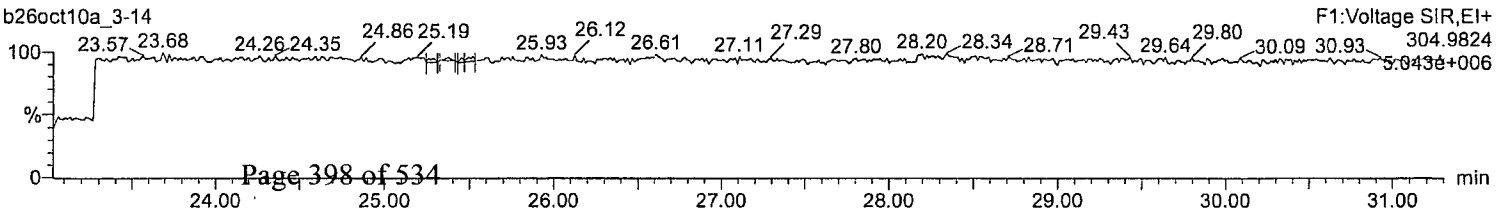
13C-2378-TCDF



HxDPE



Lock Mass F1



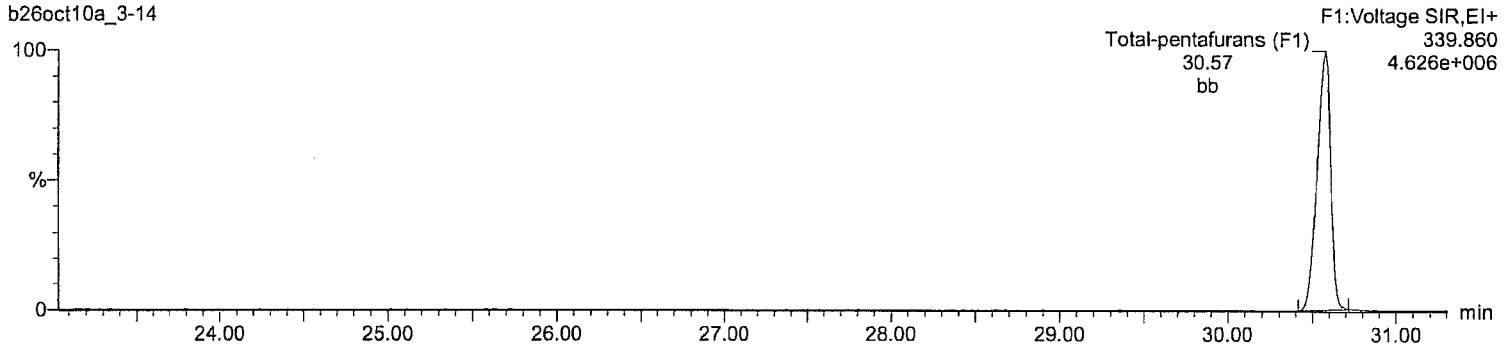
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

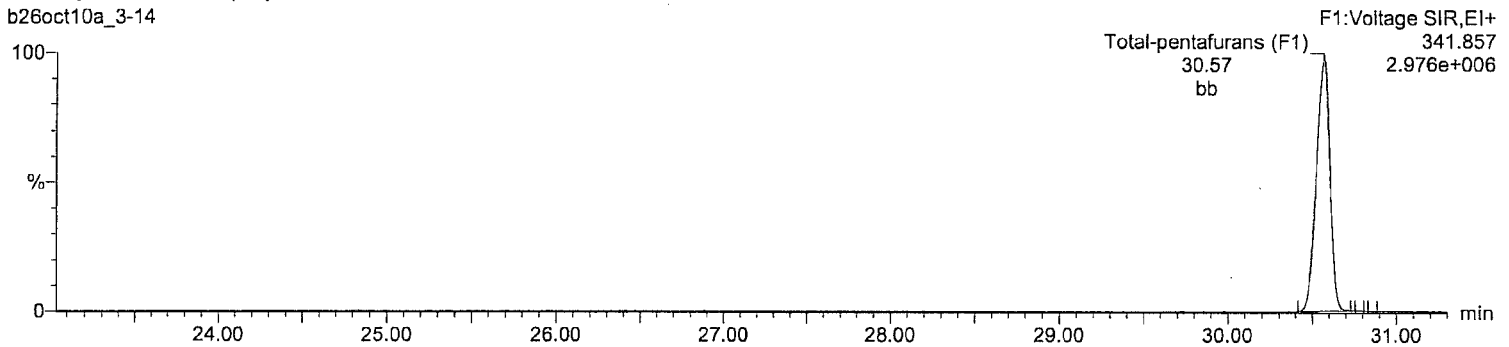
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

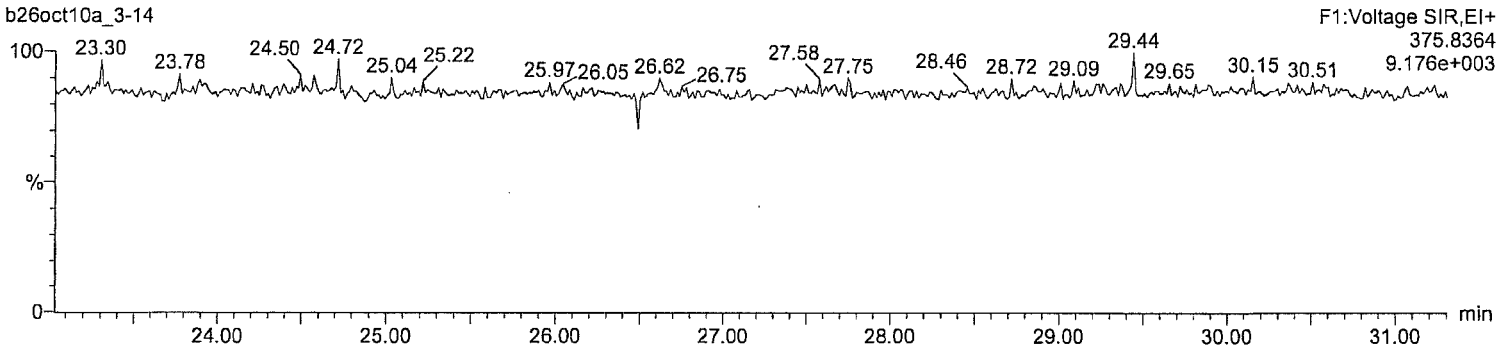
Total-pentafurans (F1)



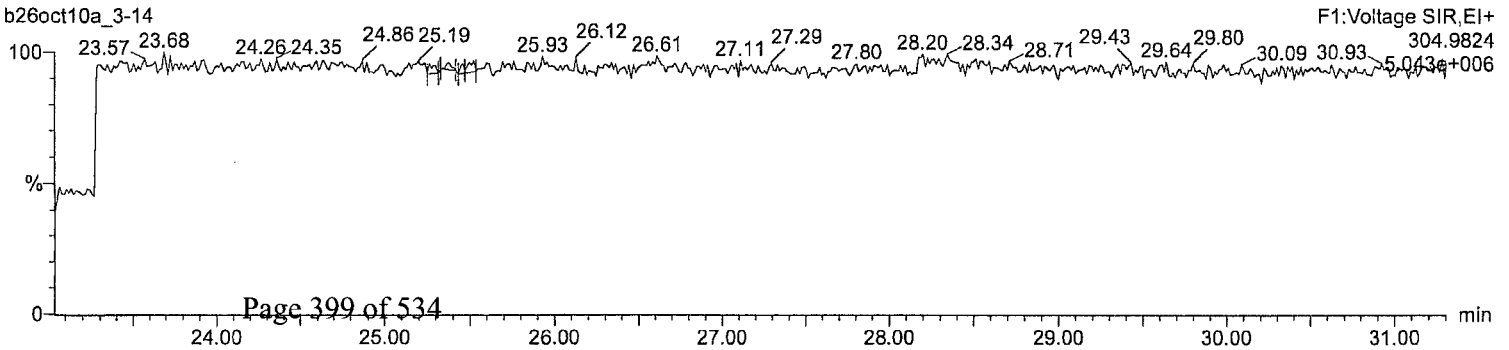
Total-pentafurans (F1)



HxDPE



Lock Mass F1



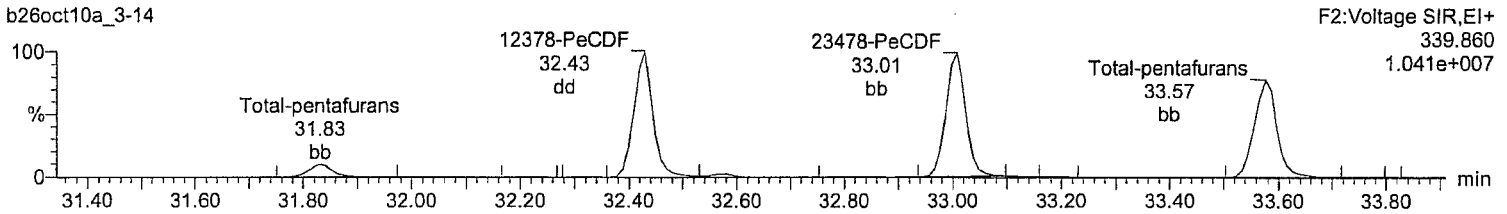
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

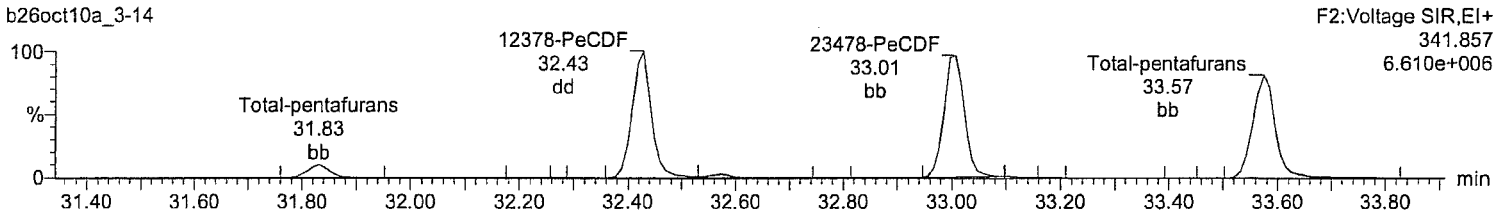
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

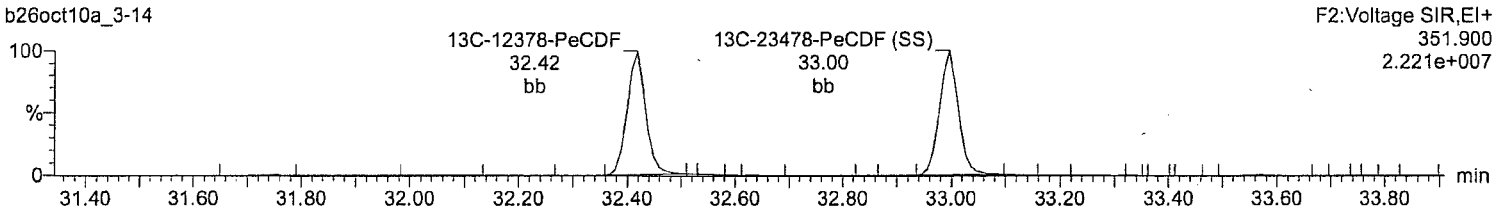
Total-pentafurans



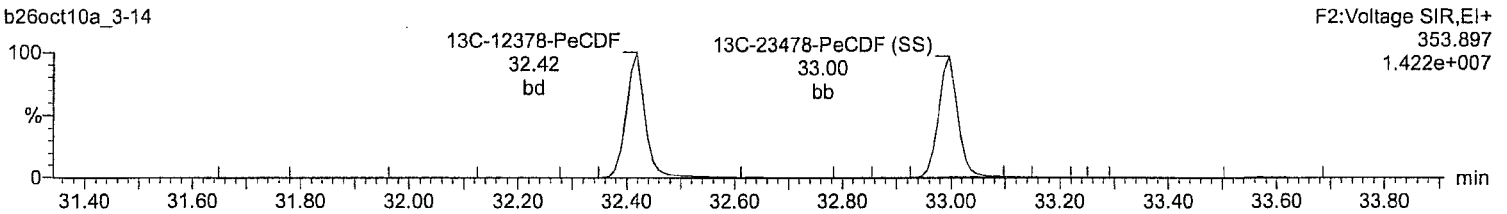
Total-pentafurans



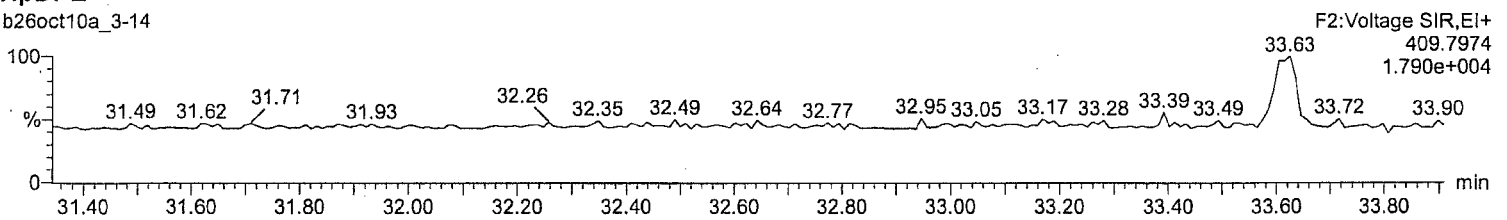
13C-12378-PeCDF



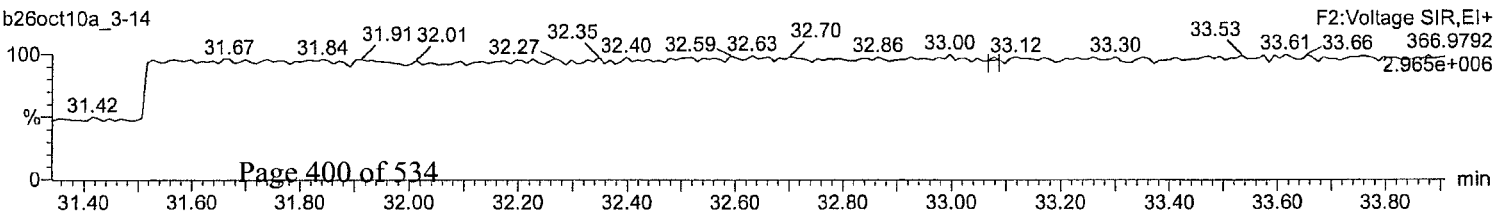
13C-12378-PeCDF



HpDPE



Lock Mass F2



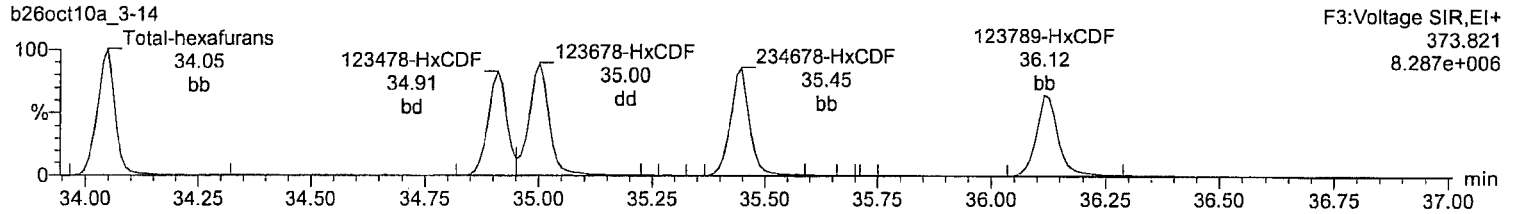
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

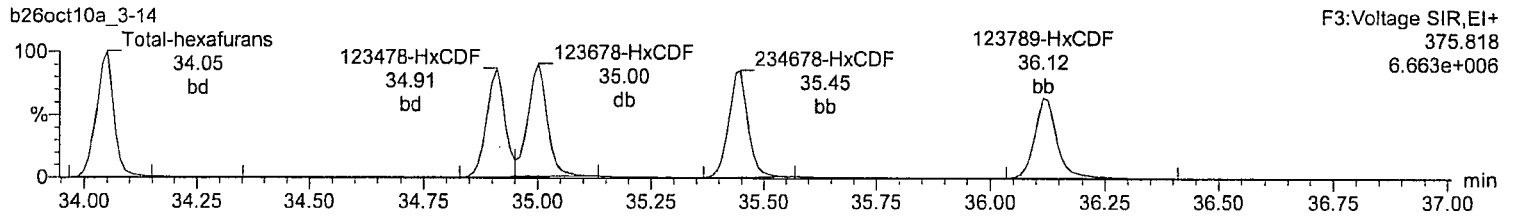
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

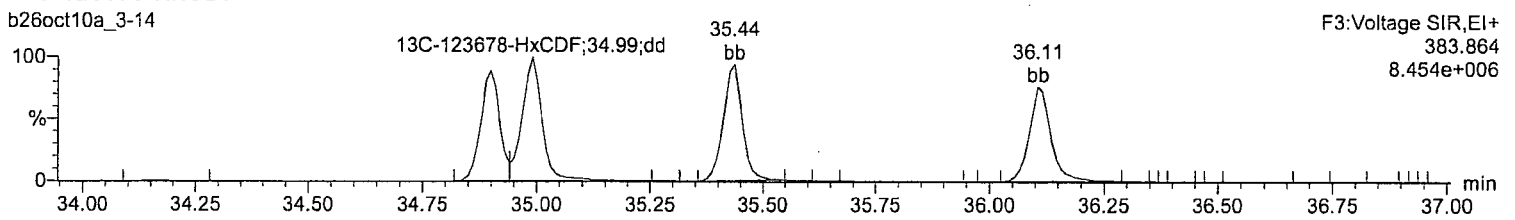
Total-hexafurans



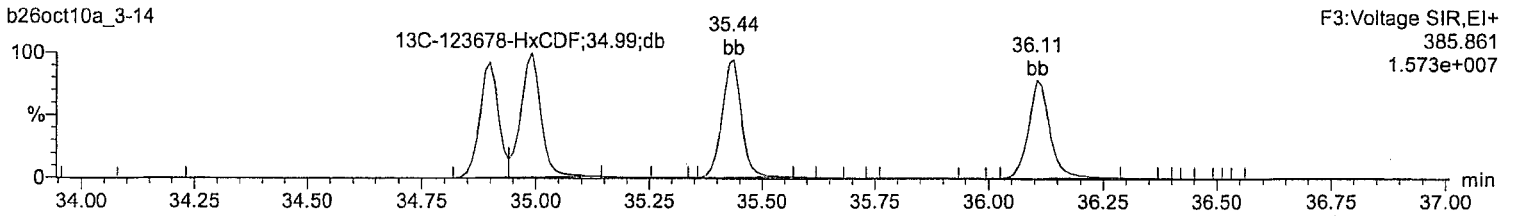
Total-hexafurans



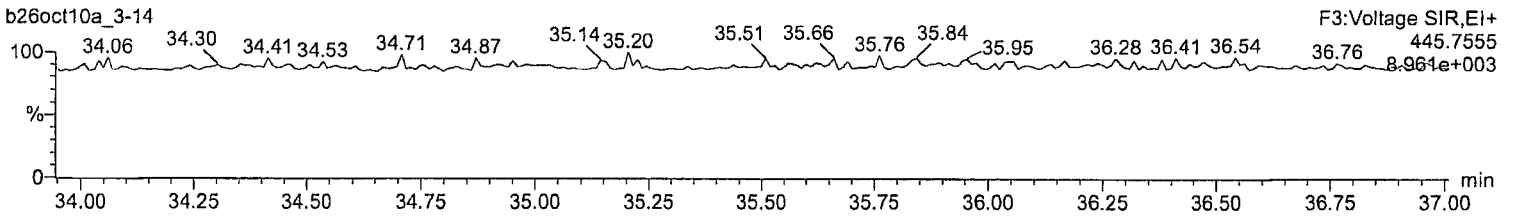
13C-123678-HxCDF



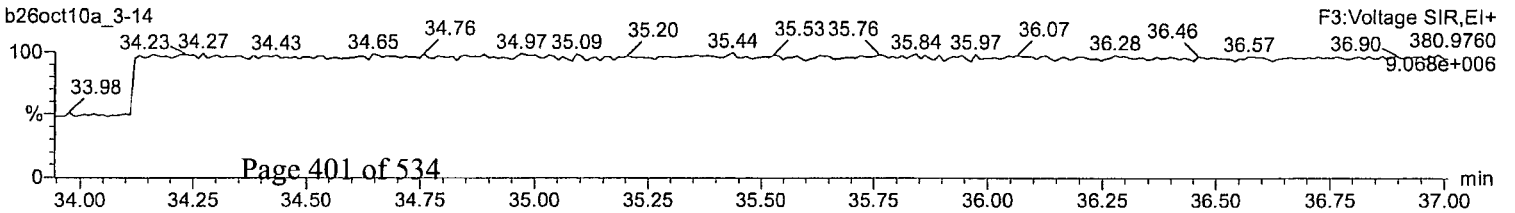
13C-123678-HxCDF



OcDPE



Lock Mass F3



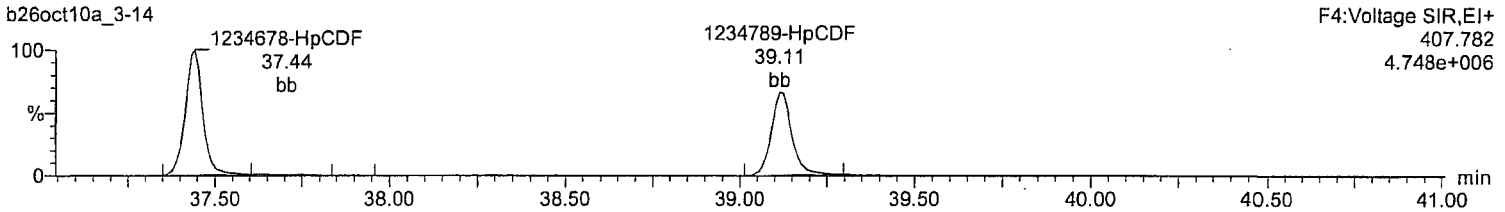
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

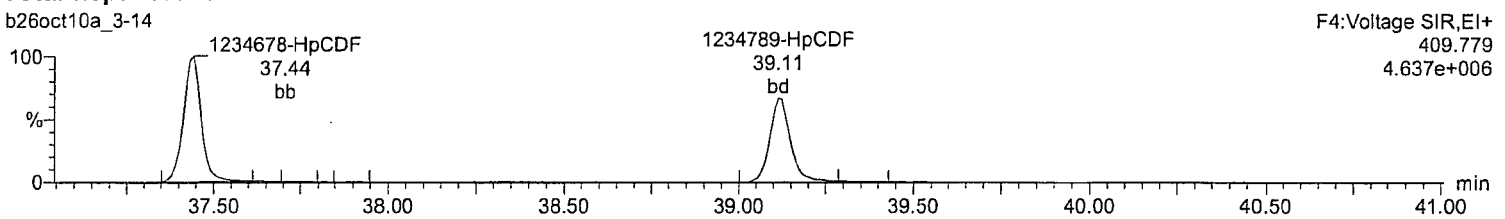
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

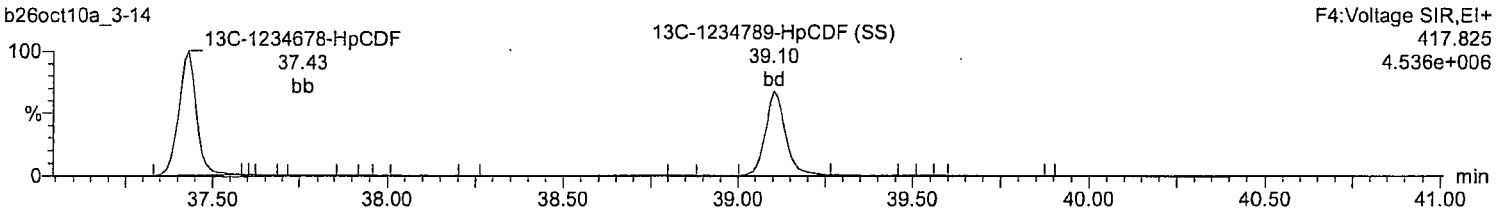
Total-heptafurans



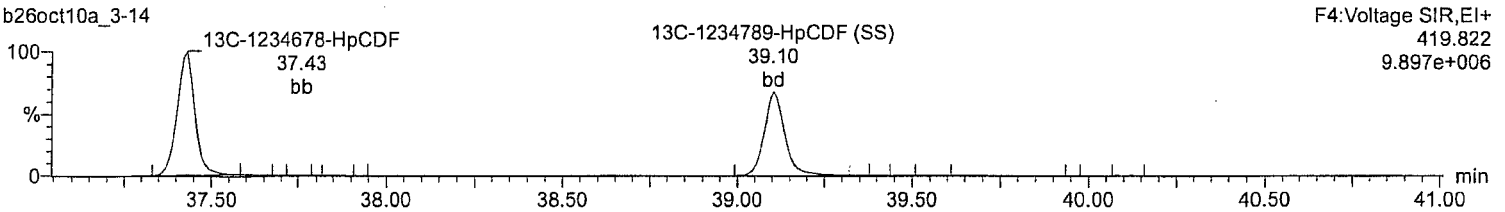
Total-heptafurans



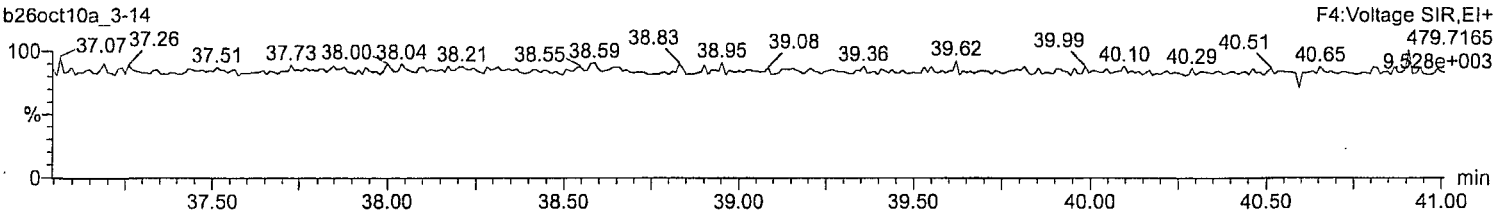
13C-1234678-HpCDF



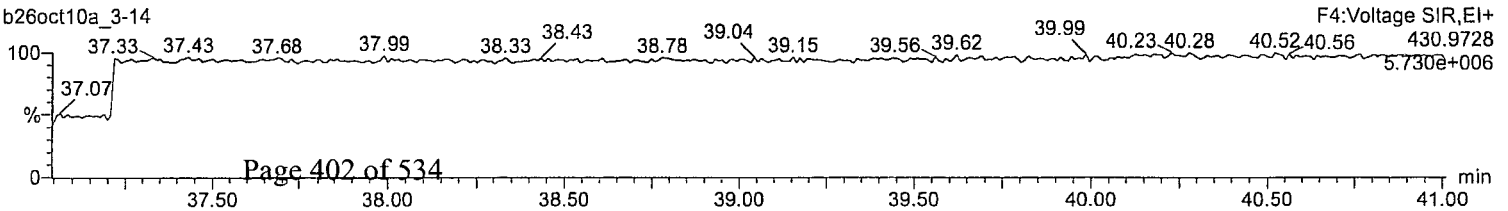
13C-1234678-HpCDF



NoDPE



Lock Mass F4



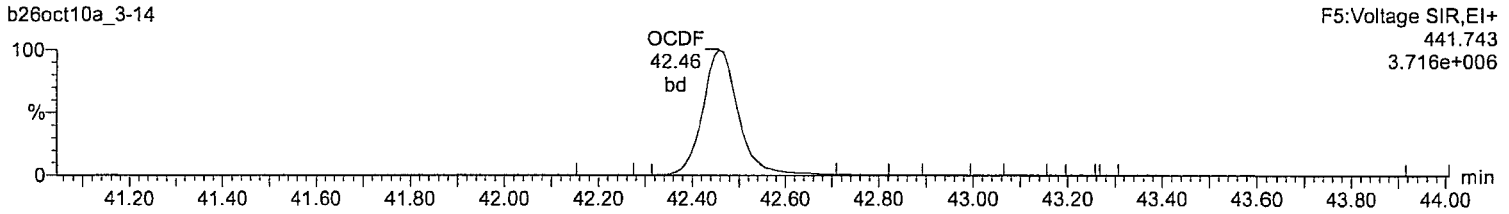
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_3-14.qld

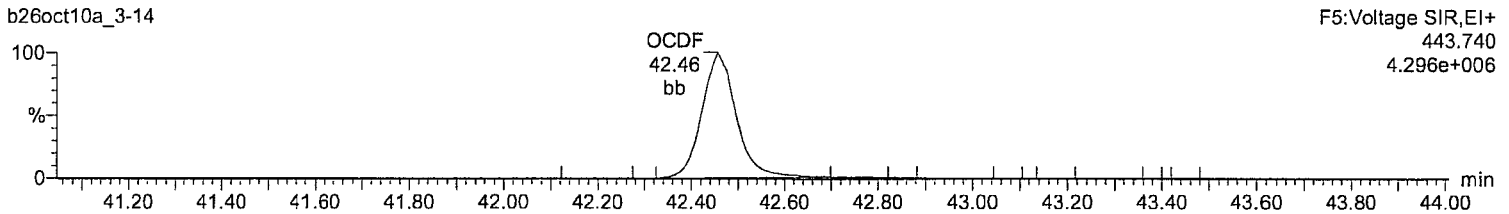
Last Altered: Thursday, October 28, 2010 10:08:33 Eastern Standard Time
Printed: Thursday, October 28, 2010 10:10:45 Eastern Standard Time

Name: b26oct10a_3-14, Date: 28-Oct-2010, Time: 02:00:36, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_3, Task: HRP763_1, User: MJC

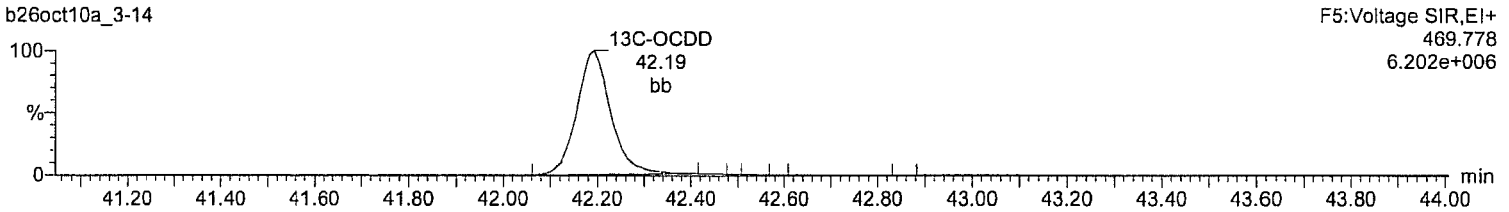
OCDF



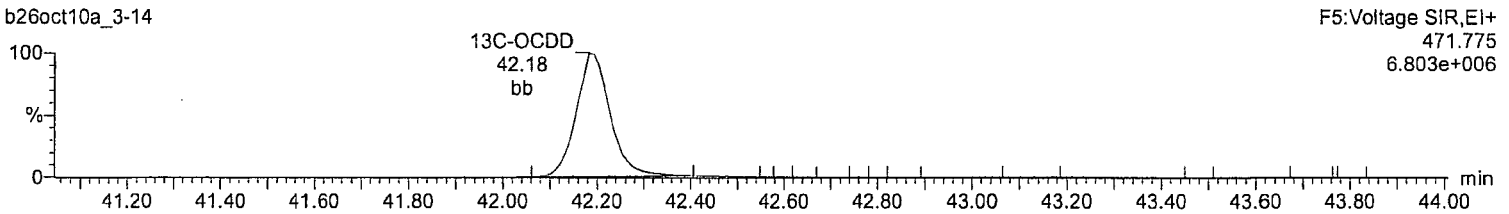
OCDF



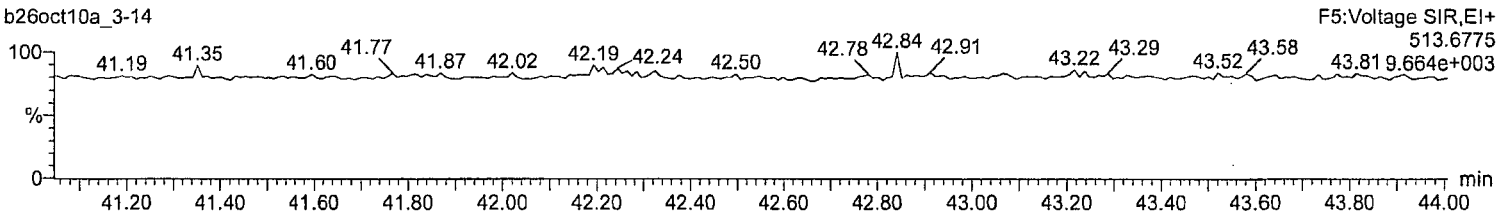
13C-OCDD



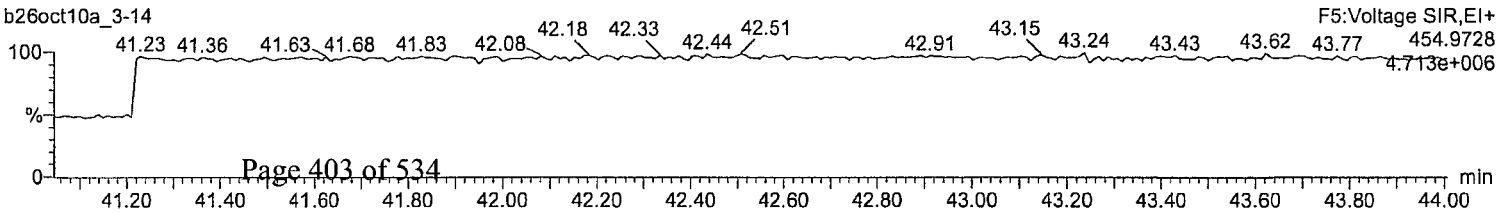
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.97e4	6.29e4	1.13e5	29.36	1.000	0.79	NO	11.370	0.0813	1.051	13.7	5.34e5	1122	476.1	6.51e5	1586	410.6	dd
2	12378-PeCDD	2.70e5	1.75e5	4.45e5	33.18	1.000	1.54	NO	51.945	0.0998	1.030	3.9	6.41e6	3651	1756.5	4.11e6	2815	1461.6	bb
3	123478-HxCDD	2.16e5	1.73e5	3.89e5	35.56	0.998	1.25	NO	58.653	0.149	0.919	17.3	4.44e6	3272	1358.0	3.48e6	3071	1134.1	bd
4	123678-HxCDD	2.35e5	1.86e5	4.20e5	35.63	1.000	1.26	NO	54.132	0.127	0.994	8.3	4.43e6	3272	1353.6	3.43e6	3071	1118.0	dd
5	123789-HxCDD	2.20e5	1.78e5	3.98e5	35.84	1.006	1.23	NO	56.235	0.139	0.940	12.5	4.09e6	3272	1251.5	3.22e6	3071	1049.5	db
6	1234678-HpCDD	1.60e5	1.53e5	3.12e5	38.54	1.000	1.04	NO	53.026	0.205	1.046	6.1	2.55e6	3405	747.4	2.40e6	2785	860.7	bb
7	OCDD	2.47e5	2.72e5	5.19e5	42.20	1.000	0.91	NO	106.714	0.339	1.047	6.7	2.94e6	3509	838.1	3.25e6	2995	1085.5	bd
8	2378-TCDF	7.34e4	9.48e4	1.68e5	28.43	1.000	0.77	NO	9.799	0.0571	0.920	-2.0	7.93e5	2068	383.3	1.05e6	1465	716.7	bb
9	12378-PeCDF	4.30e5	2.80e5	7.10e5	32.42	1.000	1.53	NO	53.798	0.0822	0.955	7.6	1.02e7	4447	2285.3	6.61e6	4648	1422.7	dd
10	23478-PeCDF	4.25e5	2.81e5	7.06e5	33.00	1.018	1.51	NO	52.796	0.0812	0.949	5.6	1.06e7	4447	2375.0	6.88e6	4648	1480.5	bb
11	123478-HxCDF	3.13e5	2.55e5	5.68e5	34.90	0.998	1.23	NO	57.415	0.179	0.970	14.8	6.58e6	7117	925.2	5.38e6	4729	1138.3	bd
12	123678-HxCDF	3.50e5	2.86e5	6.36e5	34.99	1.000	1.22	NO	51.848	0.144	1.087	3.7	7.09e6	7117	995.6	5.78e6	4729	1222.1	db
13	234678-HxCDF	3.21e5	2.66e5	5.86e5	35.44	1.013	1.21	NO	53.224	0.161	1.002	6.4	6.55e6	7117	919.7	5.31e6	4729	1123.1	bb
14	123789-HxCDF	2.79e5	2.25e5	5.03e5	36.12	1.032	1.24	NO	56.326	0.198	0.860	12.7	5.01e6	7117	703.3	4.00e6	4729	845.9	bb
15	1234678-HpCDF	2.58e5	2.51e5	5.09e5	37.43	1.000	1.03	NO	51.305	0.138	1.295	2.6	4.55e6	4007	1136.2	4.30e6	3697	1162.6	bb
16	1234789-HpCDF	2.02e5	1.99e5	4.01e5	39.11	1.045	1.02	NO	53.089	0.181	1.019	6.2	2.97e6	4007	741.2	2.82e6	3697	762.3	bd
17	OCDF	2.98e5	3.33e5	6.32e5	42.45	1.006	0.90	NO	106.548	0.190	1.275	6.5	3.33e6	1995	1669.2	3.70e6	2443	1514.7	bd
18	13C-2378-TCDD	4.73e5	5.98e5	1.07e6	29.35	1.026	0.79	NO	91.433	0.106	1.013	-8.6	4.77e6	2410	1979.8	6.24e6	2012	3102.1	bb
19	13C-12378-PeCDD	5.28e5	3.36e5	8.64e5	33.17	1.159	1.57	NO	98.029	0.168	0.817	-2.0	1.20e7	2848	4210.3	7.52e6	2441	3080.4	bb
20	13C-123678-HxCDD	4.67e5	3.79e5	8.46e5	35.62	0.994	1.23	NO	96.638	0.0964	1.057	-3.4	9.03e6	2984	3025.4	7.12e6	2341	3043.0	db
21	13C-1234678-HpCDD	3.09e5	2.88e5	5.98e5	38.53	1.075	1.07	NO	99.092	0.142	0.747	-0.9	4.76e6	2937	1620.4	4.43e6	2481	1785.1	bb
22	13C-OCDD	4.66e5	5.25e5	9.91e5	42.18	1.177	0.89	NO	188.403	0.235	0.619	-5.8	5.51e6	2945	1872.5	6.12e6	4835	1265.0	bb
23	13C-2378-TCDF	8.08e5	1.02e6	1.83e6	28.42	0.993	0.79	NO	100.270	0.0584	1.729	0.3	8.73e6	1970	4431.1	1.11e7	1832	6047.3	bb
24	13C-12378-PeCDF	9.02e5	5.85e5	1.49e6	32.41	1.133	1.54	NO	99.347	0.164	1.405	-0.7	2.27e7	5398	4199.7	1.41e7	3345	4217.8	bb
25	13C-123678-HxCDF	4.05e5	7.66e5	1.17e6	34.98	0.976	0.53	NO	99.322	0.120	1.463	-0.7	8.13e6	4238	1918.5	1.56e7	4710	3315.2	db
26	13C-1234678-HpCDF	2.40e5	5.47e5	7.86e5	37.42	1.044	0.44	NO	102.154	0.170	0.983	2.2	4.06e6	3127	1297.9	9.09e6	5144	1768.2	bb
27	13C-1234-TCDD	4.69e5	5.89e5	1.06e6	28.62	0.000	0.80	NO	100.000	0.117	1.000	0.0	5.02e6	2410	2084.4	6.31e6	2012	3137.6	bb
28	13C-123789-HxCDD	4.34e5	3.66e5	8.00e5	35.83	0.000	1.19	NO	100.000	0.105	1.000	0.0	8.22e6	2984	2755.9	6.52e6	2341	2787.3	bb
29	37Cl-2378-TCDD (SS)	1.22e5		1.22e5	29.36	1.000			11.112	0.0350	1.135	11.1	1.29e6	1287	999.4				bb
30	13C-23478-PeCDF (SS)	8.81e5	5.61e5	1.44e6	32.99	1.018	1.57	NO	102.307	0.0740	0.969	2.3	2.26e7	5398	4189.5	1.42e7	3345	4254.3	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-123478-HxCDF (SS)	3.47e5	6.64e5	1.01e6	34.89	0.997	0.52	NO	112.689	0.149	0.864	12.7	7.46e6	4238	1759.7	1.46e7	4710	3094.9	bd
32	13C-123478-HxCDD (SS)	4.16e5	3.27e5	7.42e5	35.55	0.998	1.27	NO	112.369	0.125	0.878	12.4	8.37e6	2984	2804.1	6.52e6	2341	2784.9	bd
33	13C-1234789-HpCDF (SS)	1.90e5	4.19e5	6.09e5	39.09	1.045	0.45	NO	99.493	0.239	0.775	-0.5	2.74e6	3127	876.4	6.24e6	5144	1213.6	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

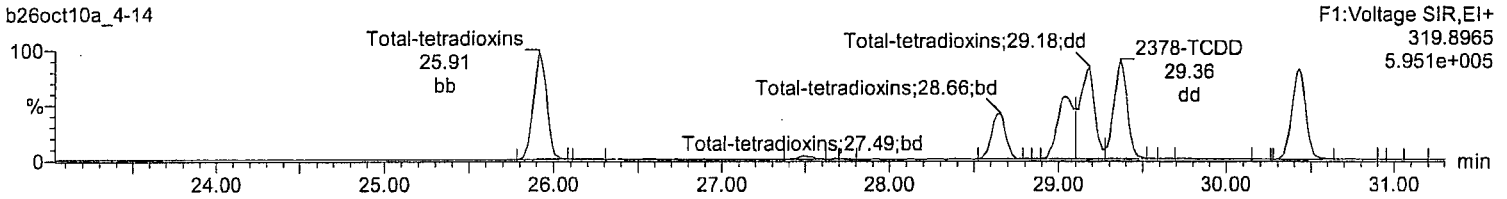
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

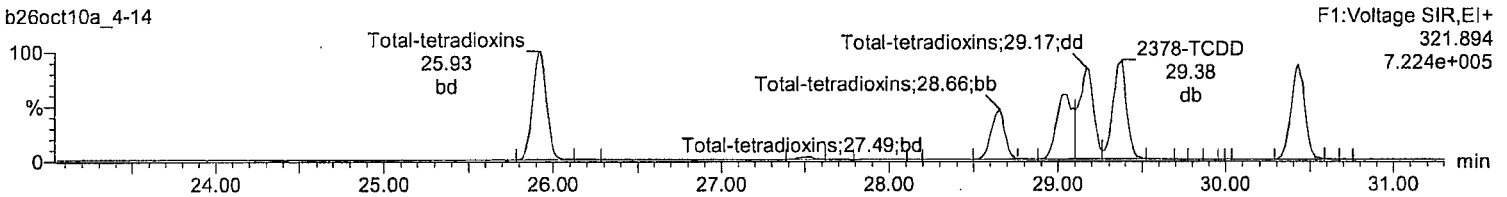
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

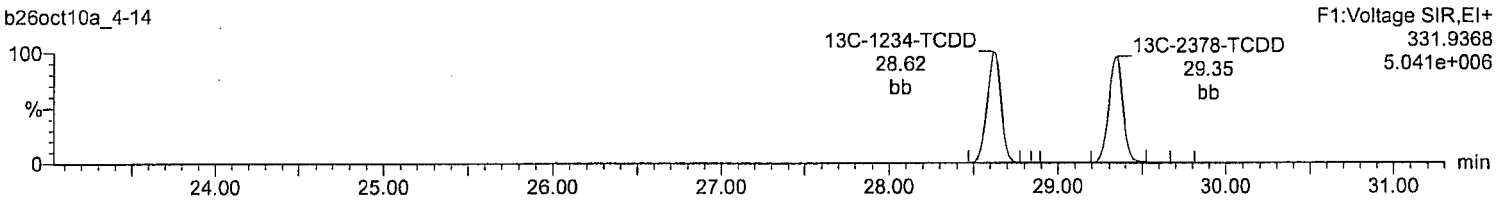
Total-tetradioxins



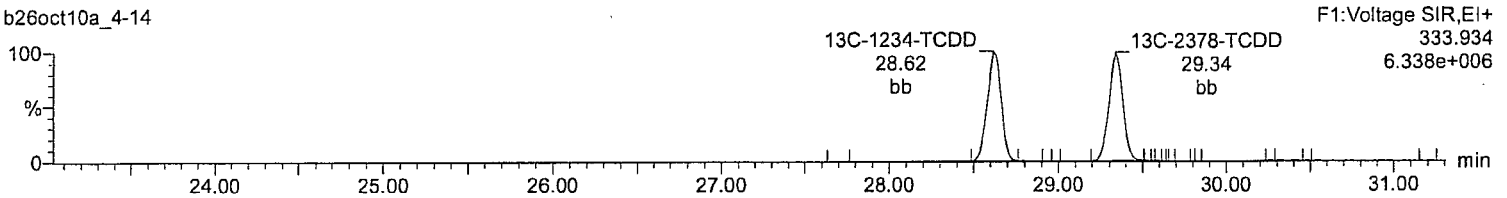
Total-tetradioxins



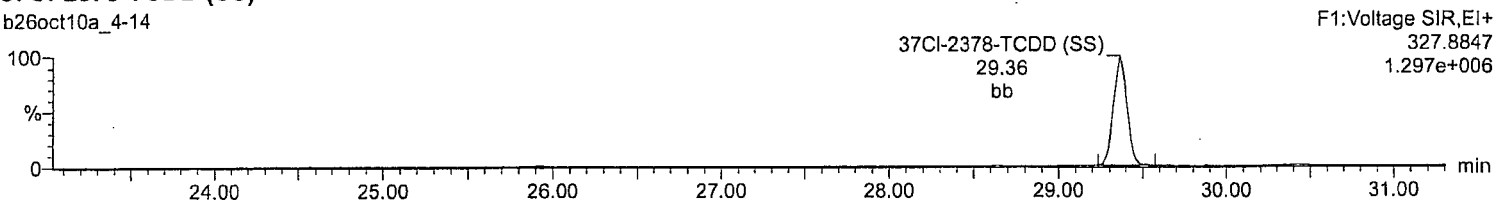
13C-2378-TCDD



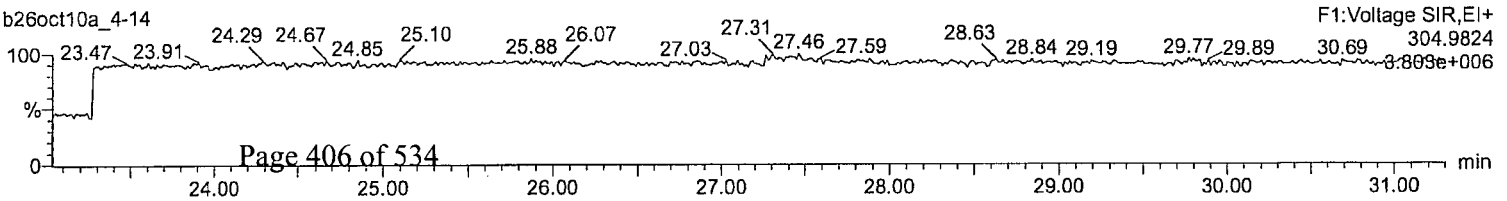
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



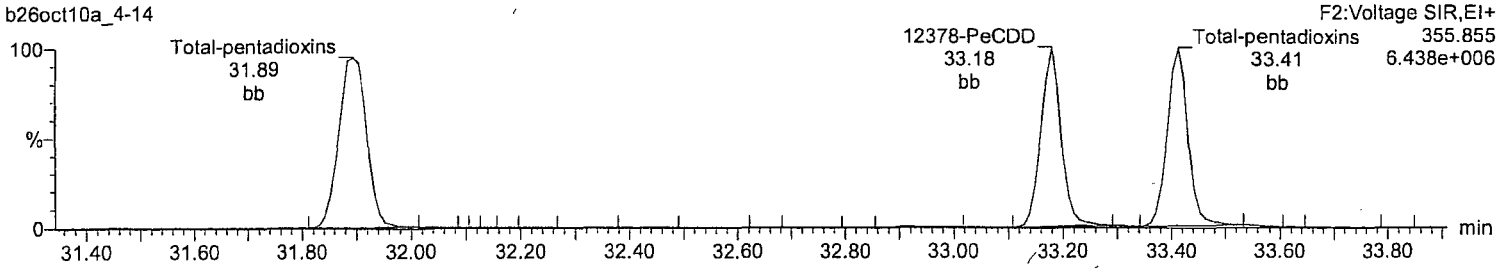
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

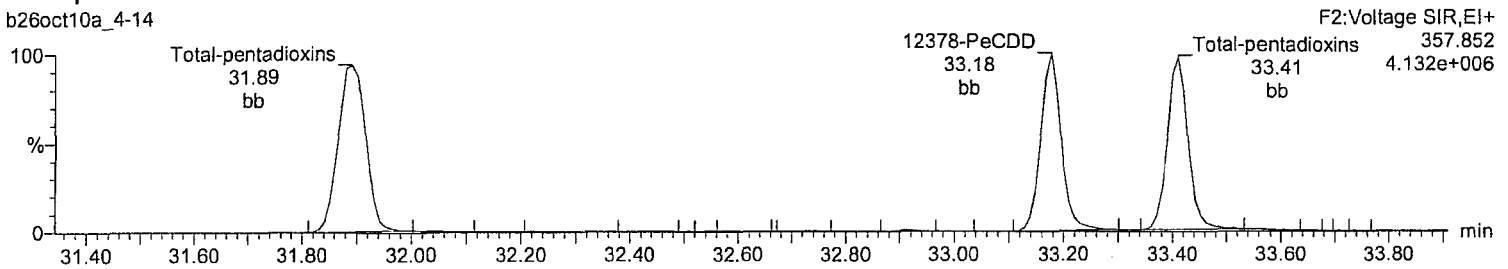
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

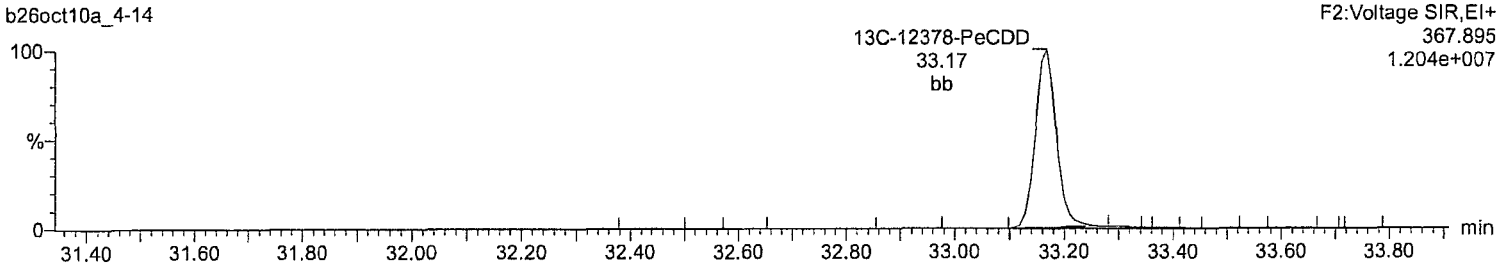
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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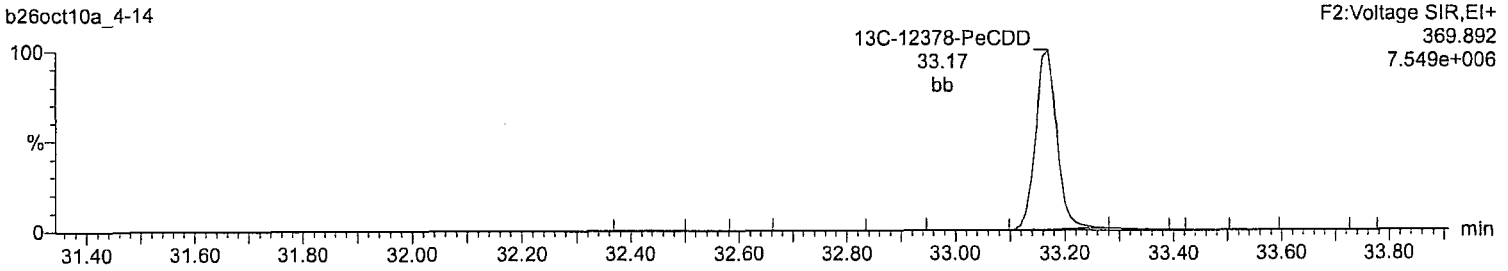
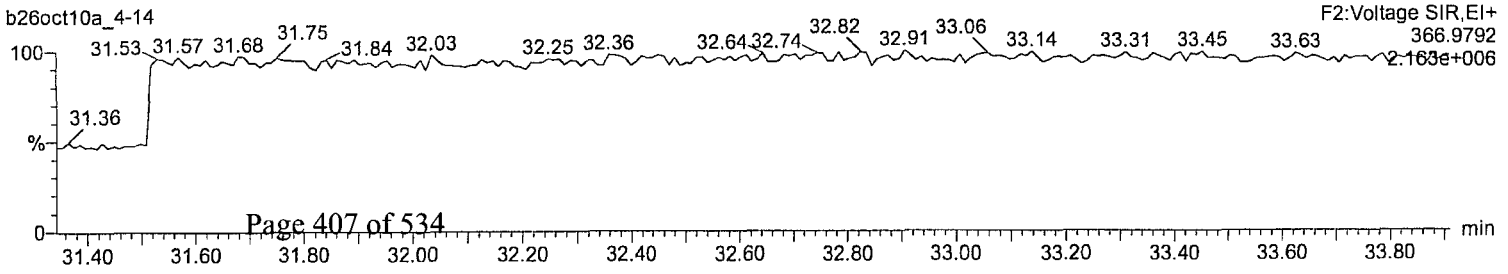


Lock Mass F2



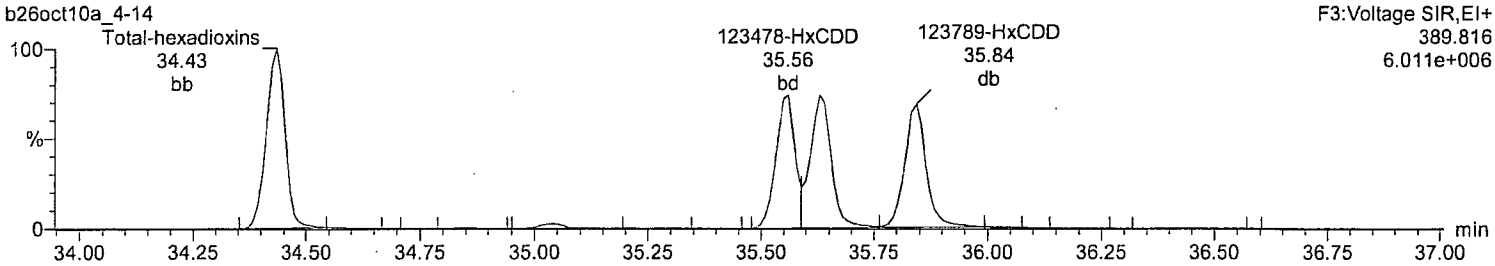
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

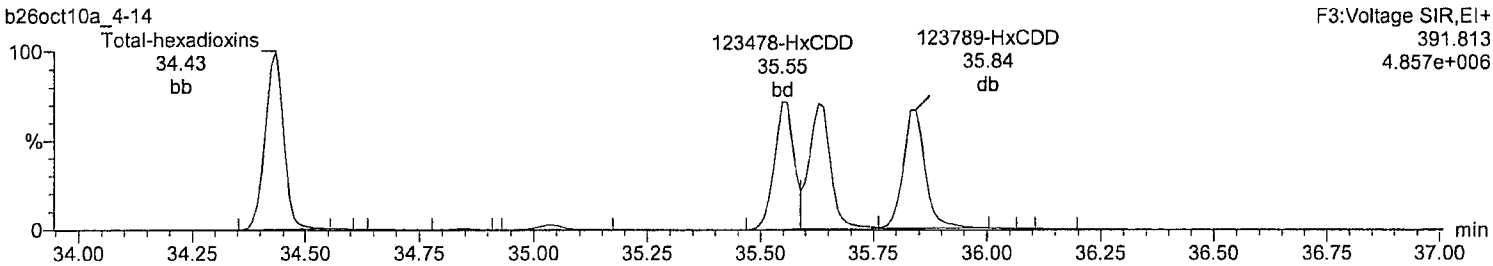
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

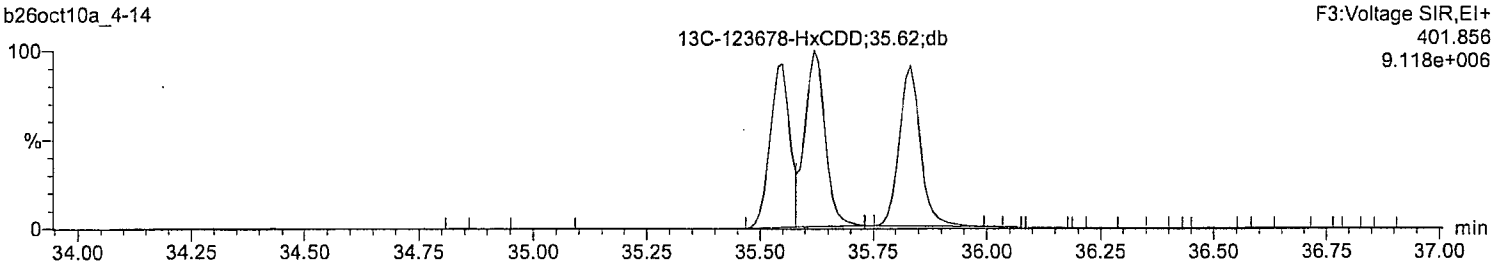
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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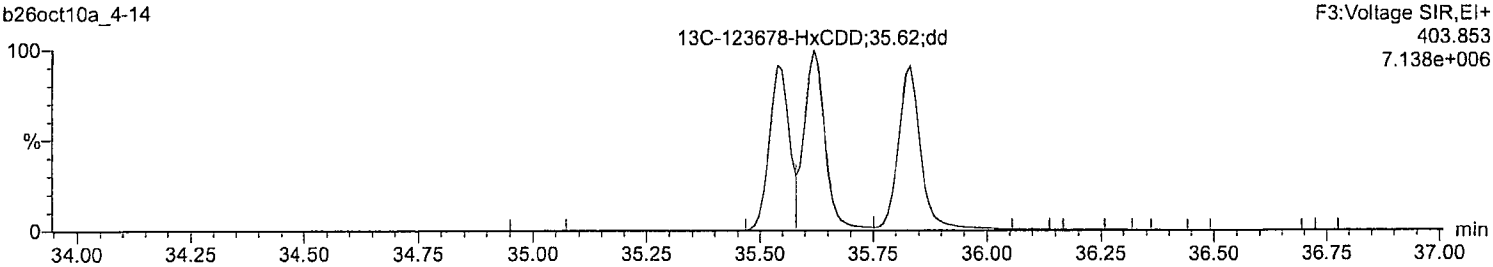
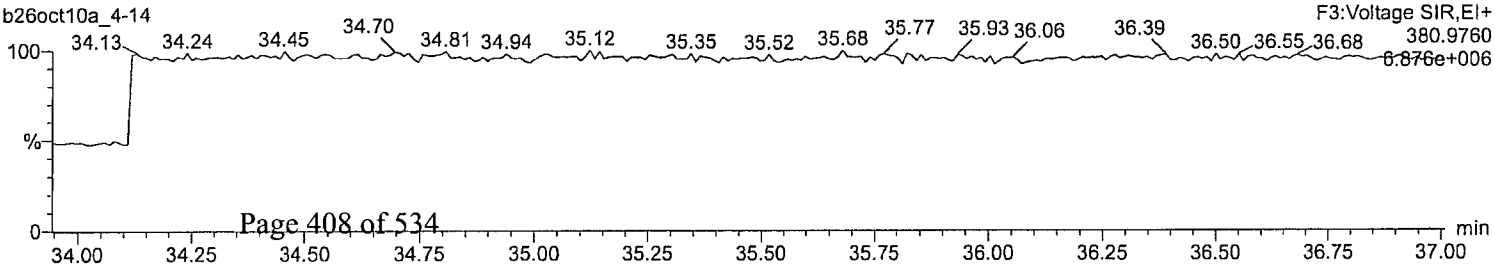


Lock Mass F3



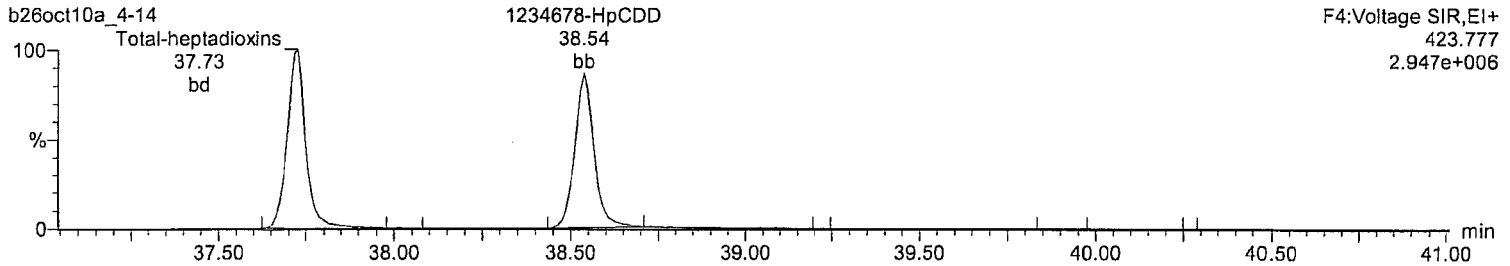
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

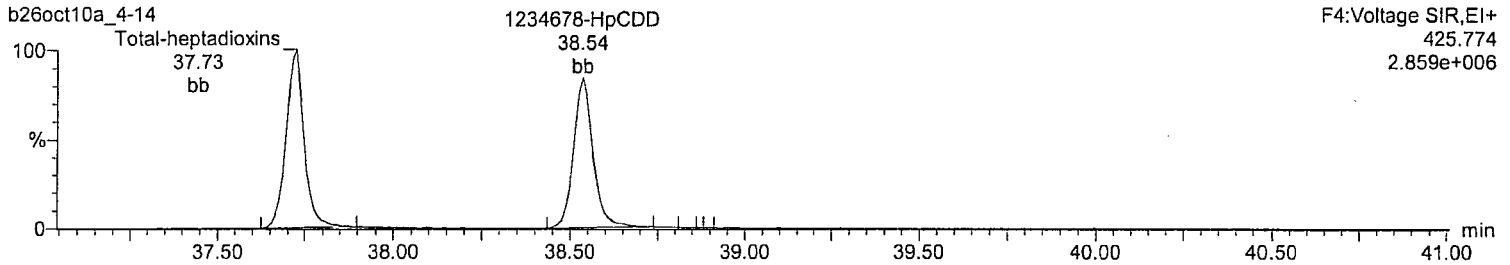
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

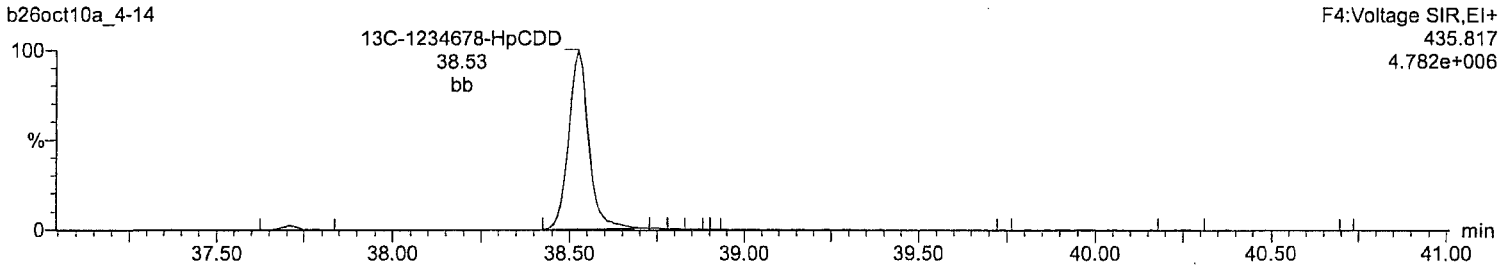
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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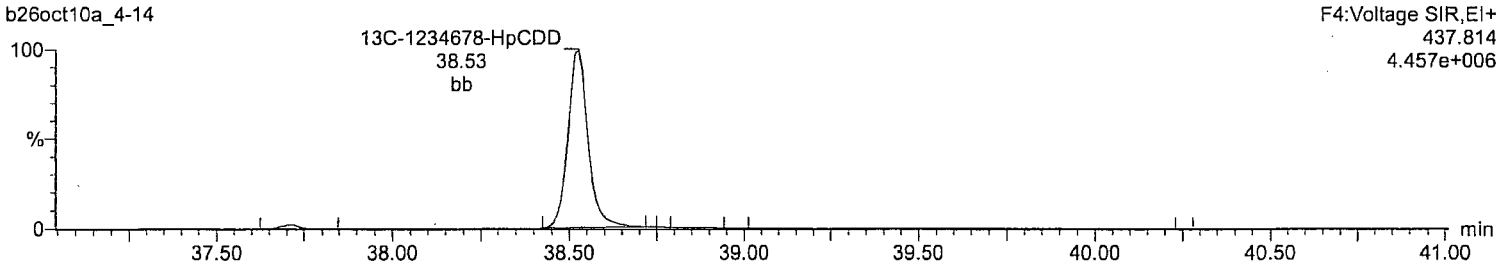
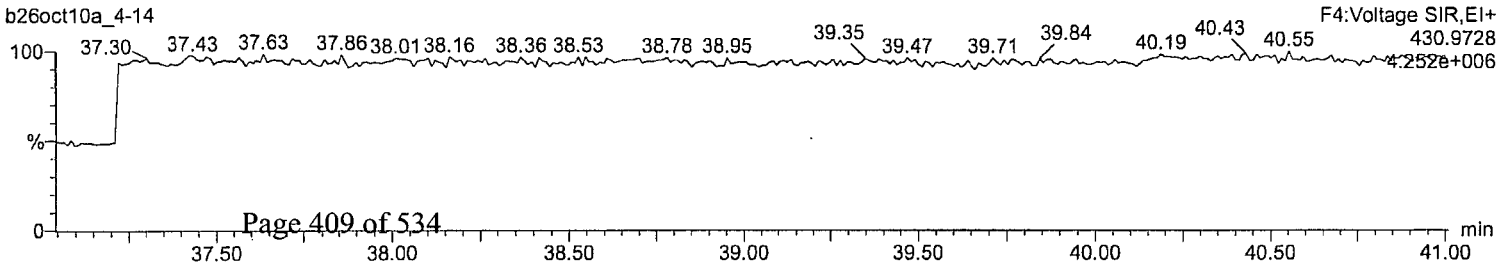


Lock Mass F4



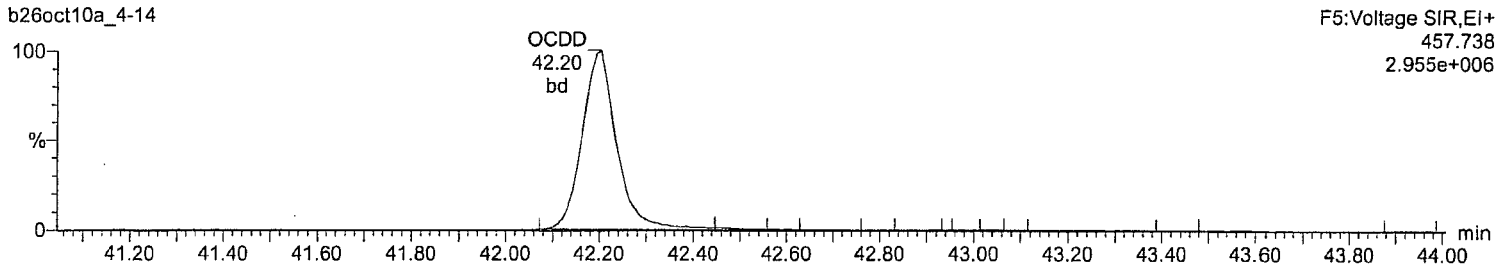
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

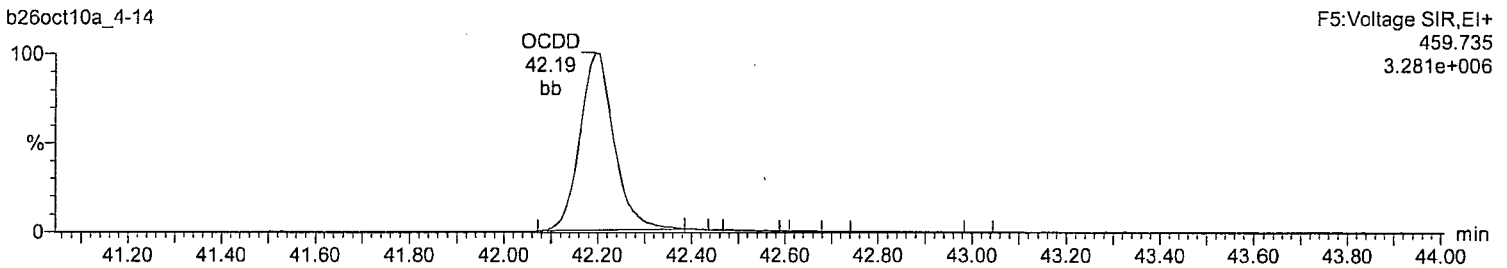
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

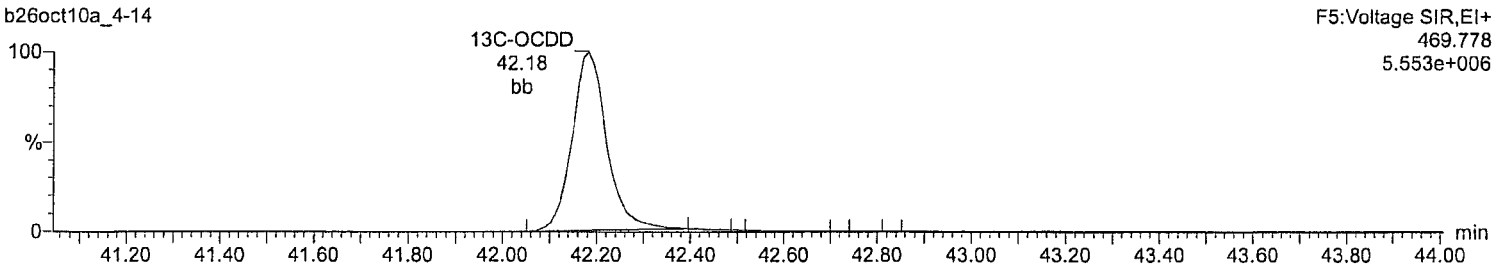
OCDD



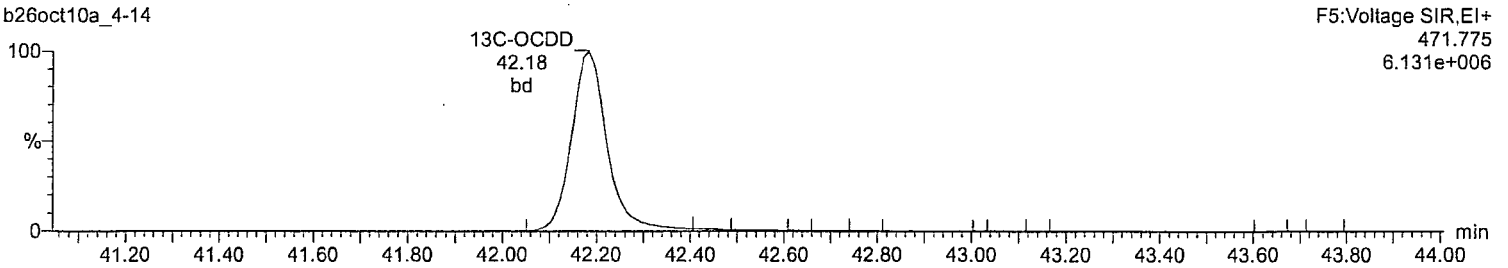
OCDD



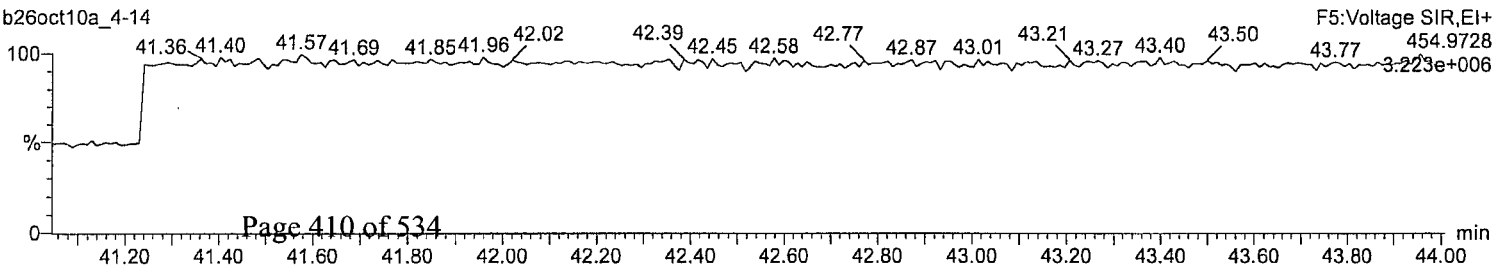
13C-OCDD



13C-OCDD



Lock Mass F5



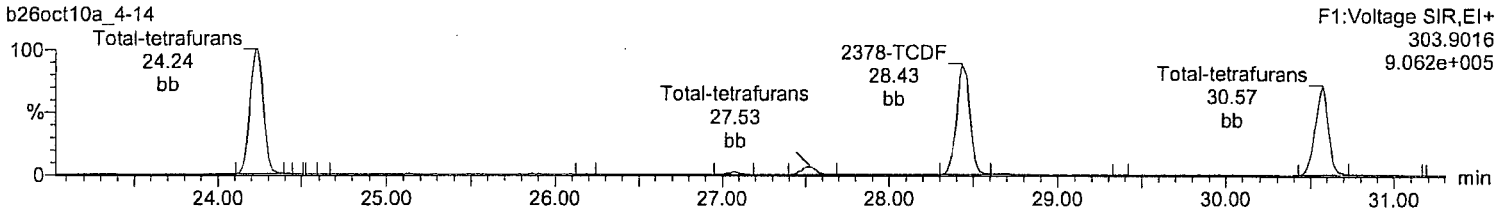
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

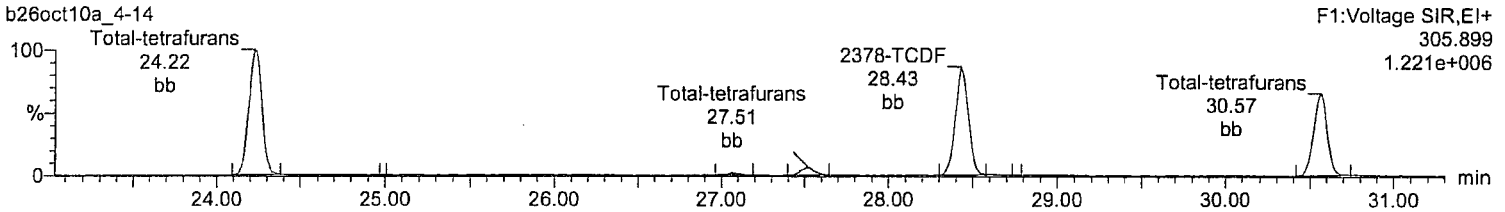
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

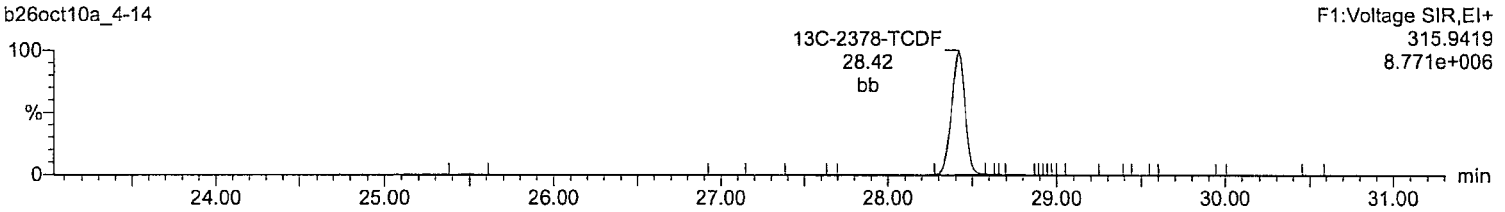
Total-tetrafurans



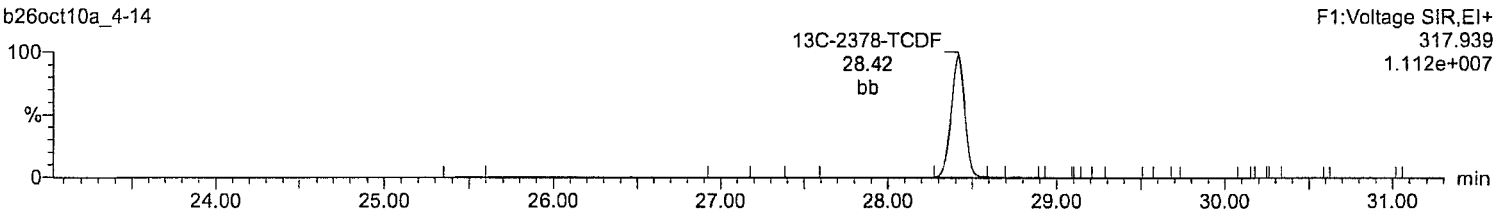
Total-tetrafurans



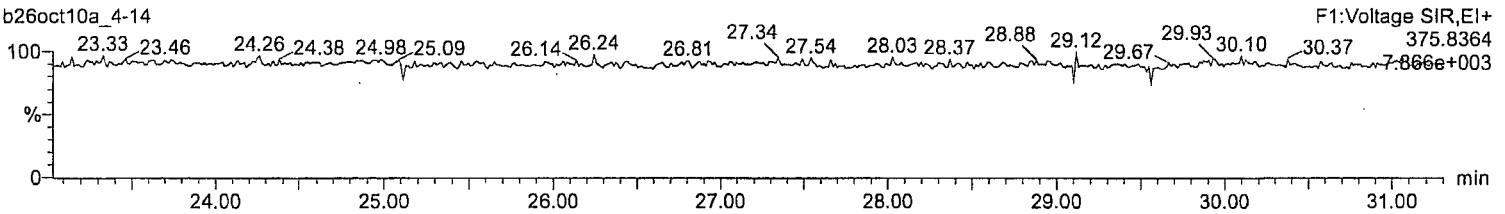
13C-2378-TCDF



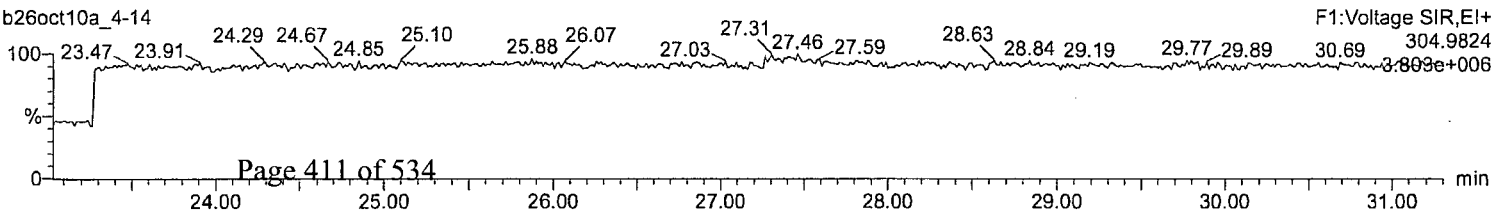
13C-2378-TCDF



HxDPE



Lock Mass F1



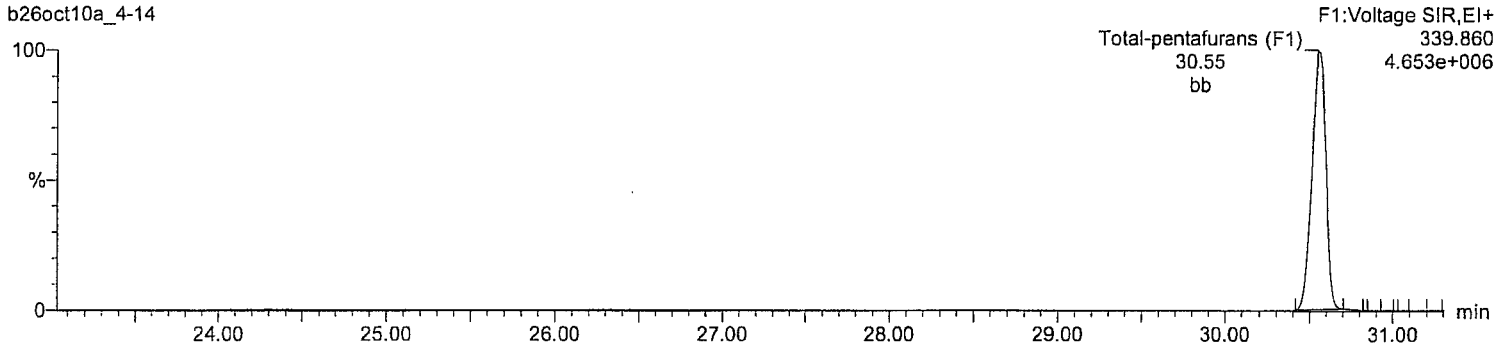
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

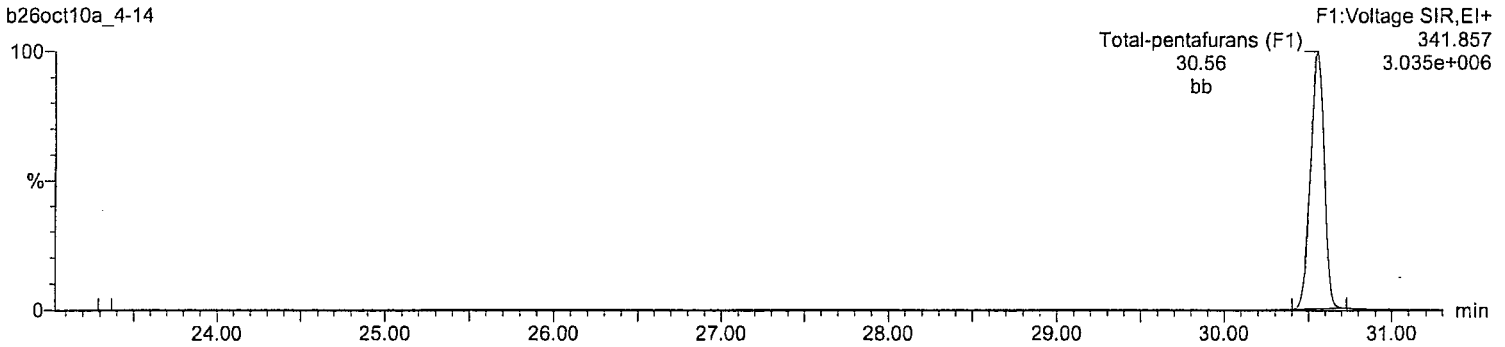
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

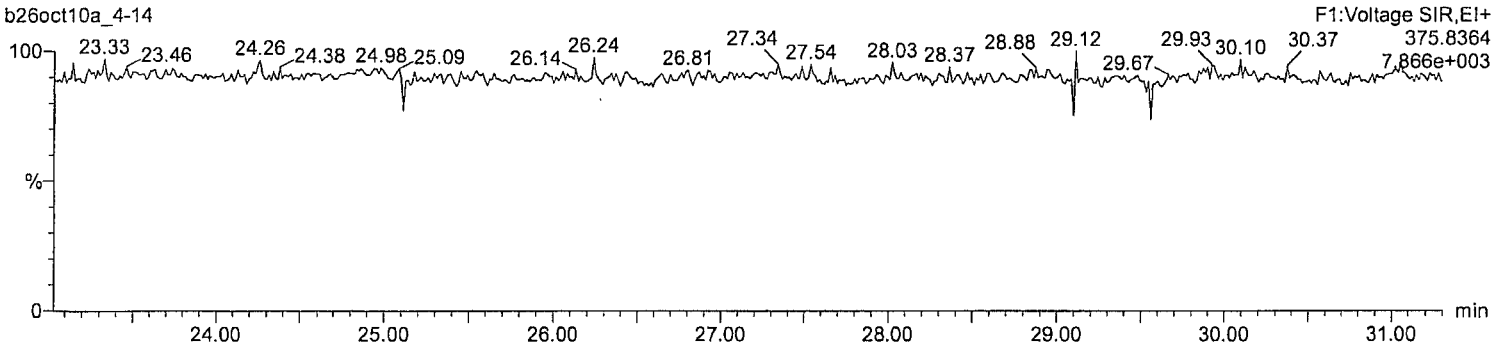
Total-pentafurans (F1)



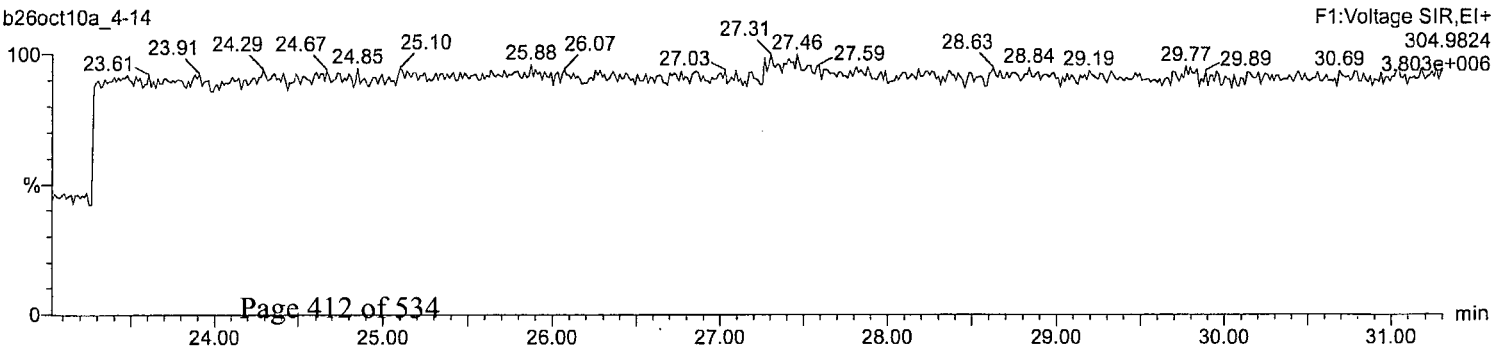
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
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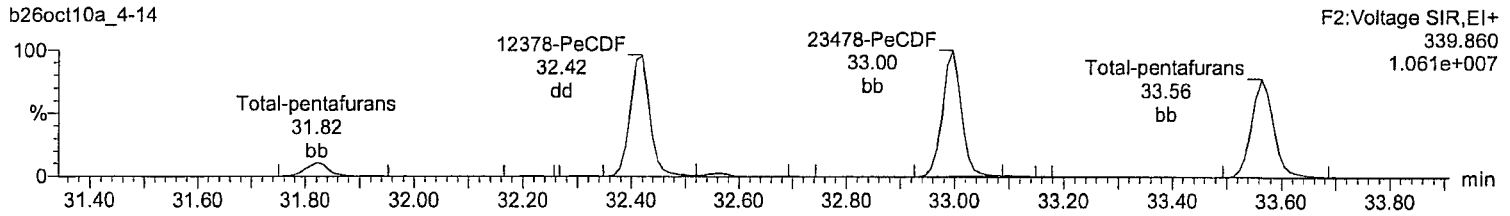
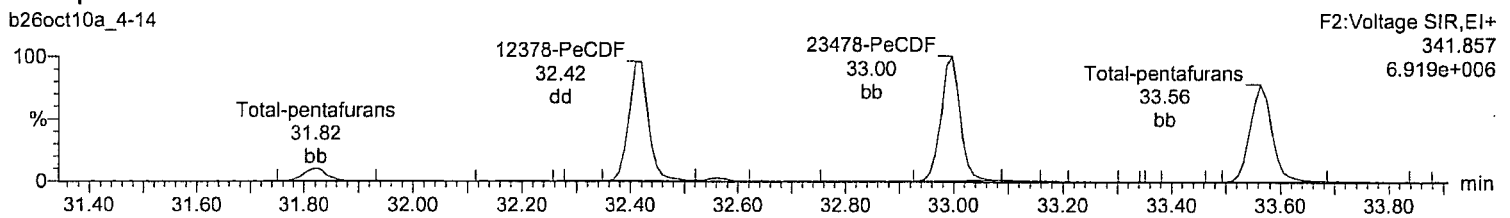
Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

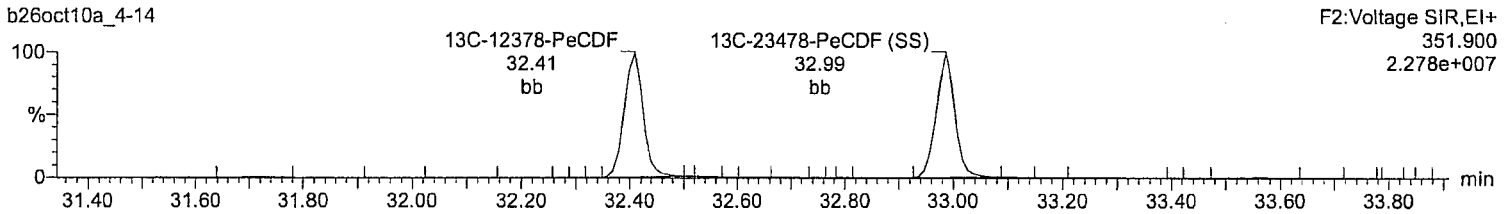
Total-pentafurans



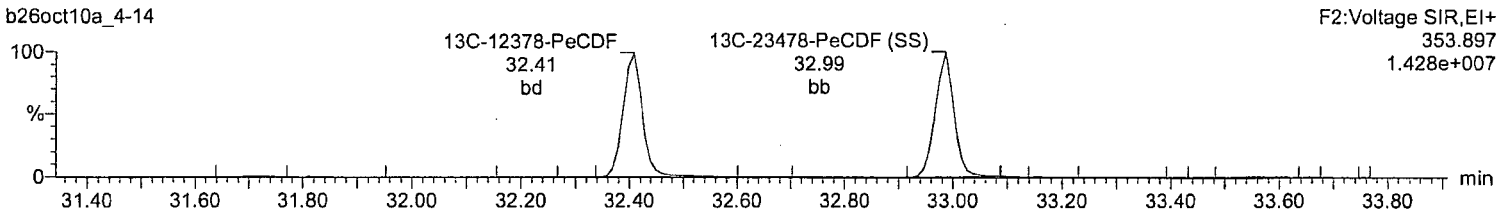
Total-pentafurans



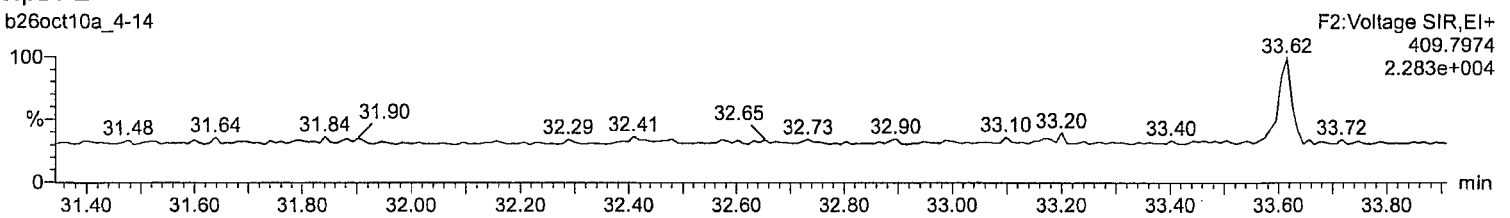
13C-12378-PeCDF



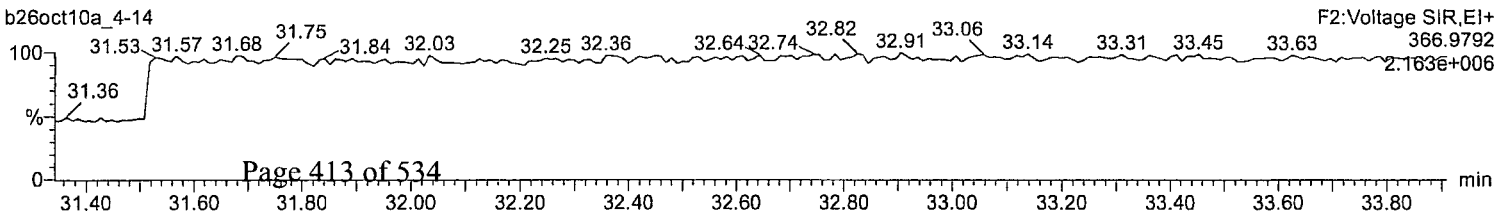
13C-12378-PeCDF



HpDPE



Lock Mass F2



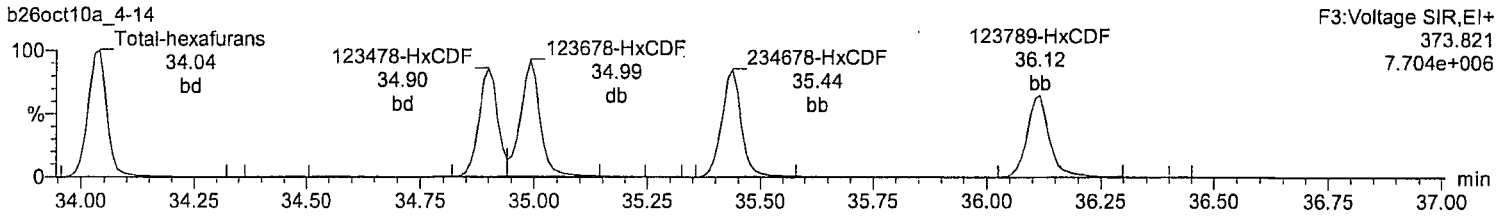
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

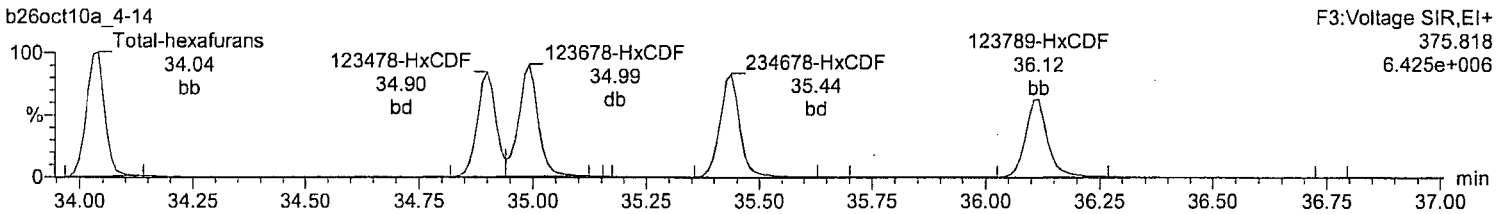
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

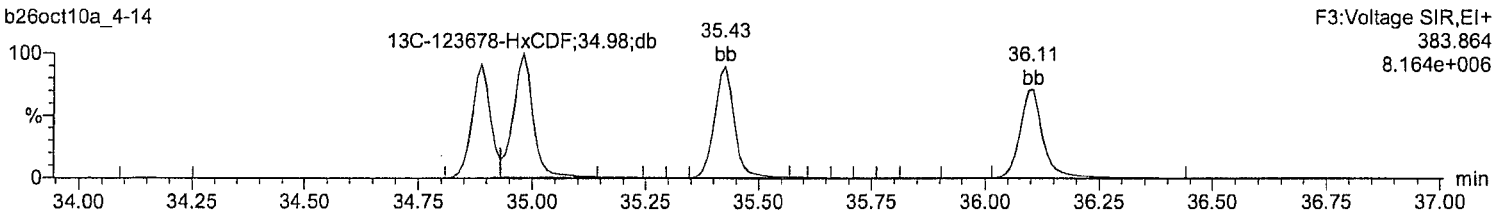
Total-hexafurans



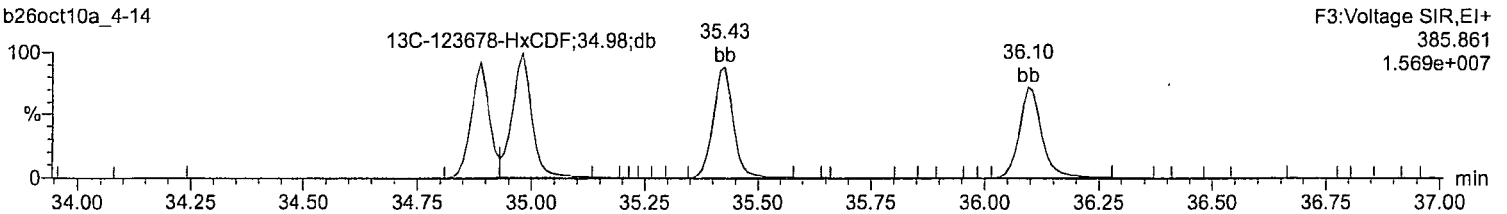
Total-hexafurans



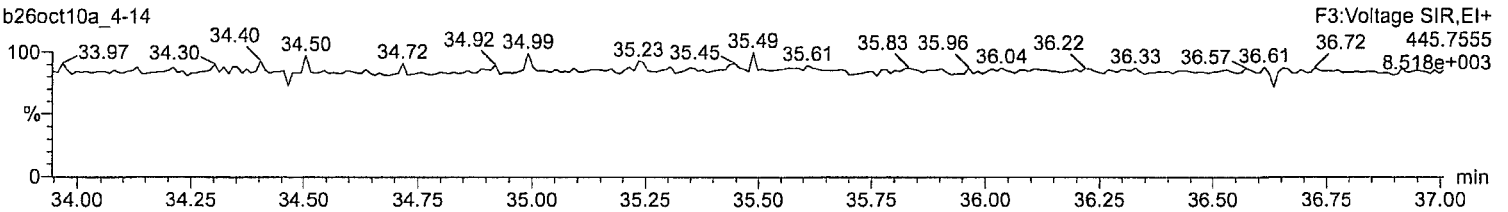
13C-123678-HxCDF



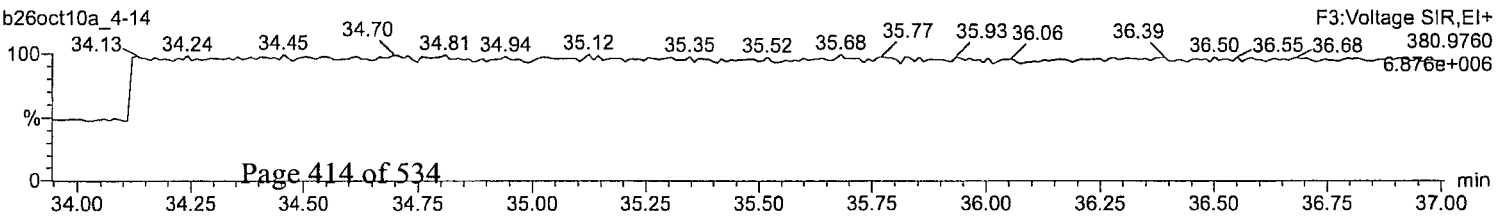
13C-123678-HxCDF



OcDPE



Lock Mass F3



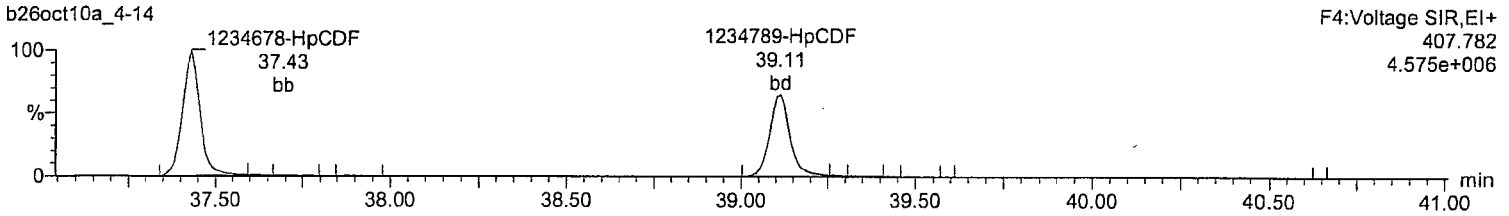
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

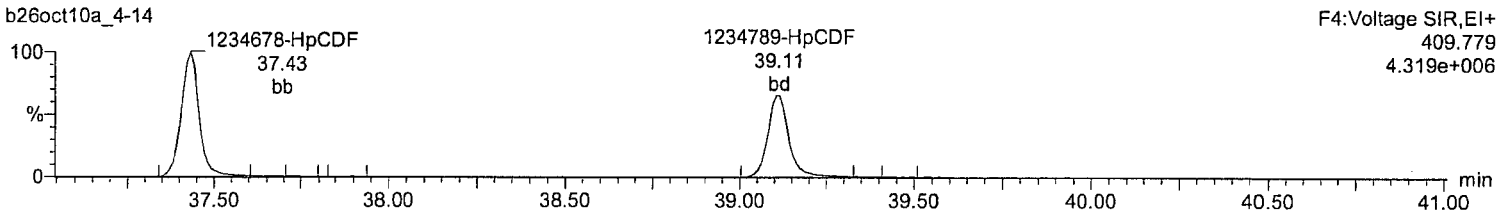
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

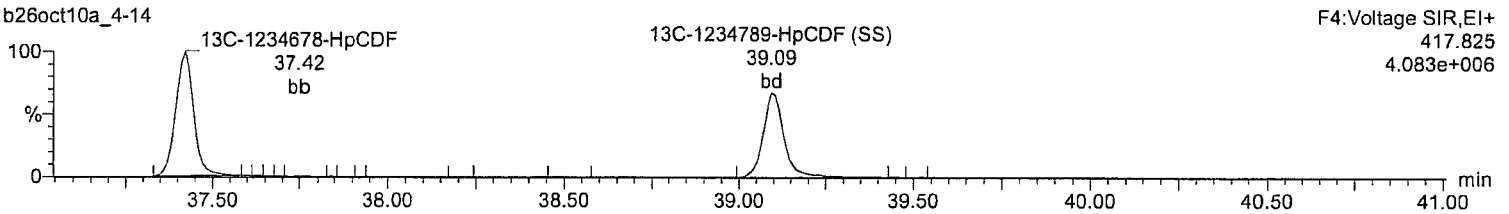
Total-heptafurans



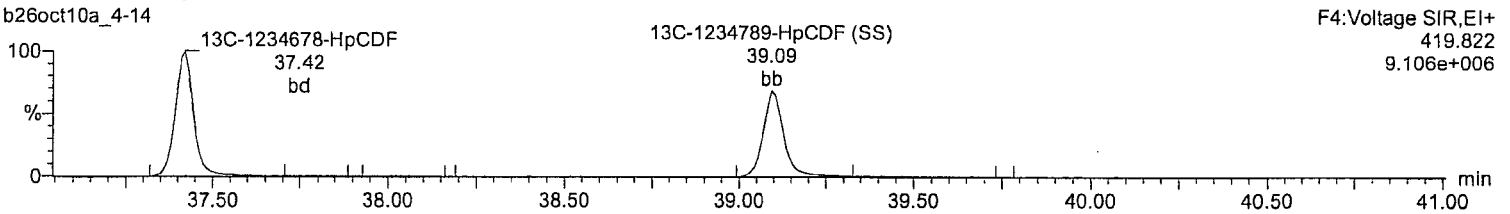
Total-heptafurans



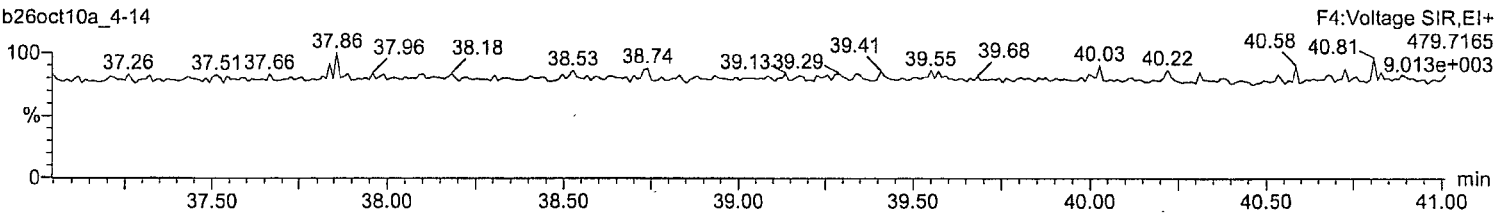
13C-1234678-HpCDF



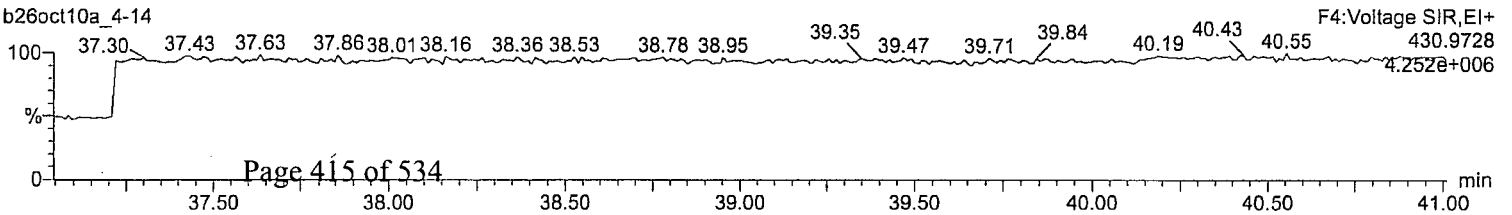
13C-1234678-HpCDF



NoDPE



Lock Mass F4



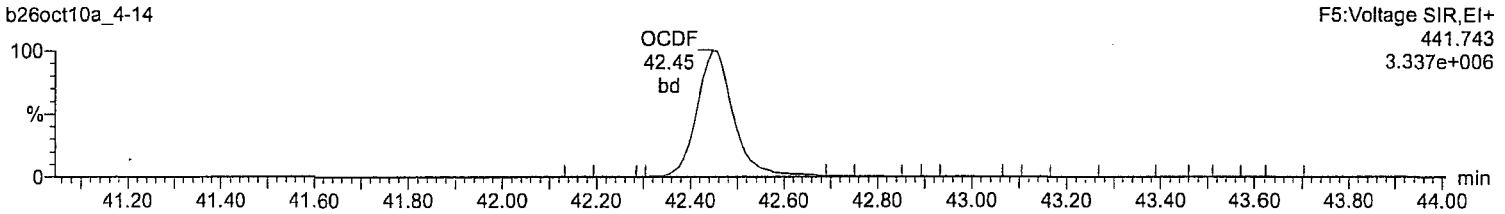
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b26oct10a_4-14.qld

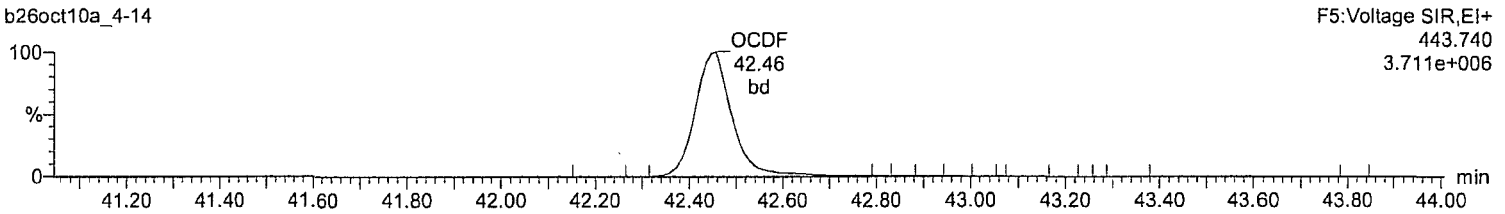
Last Altered: Thursday, October 28, 2010 16:37:15 Eastern Standard Time
Printed: Thursday, October 28, 2010 16:38:22 Eastern Standard Time

Name: b26oct10a_4-14, Date: 28-Oct-2010, Time: 12:52:00, ID: CS3WT UD100713-01.2, Description: , Job: b26oct10a_4, Task: HRP763_1, User: MJC

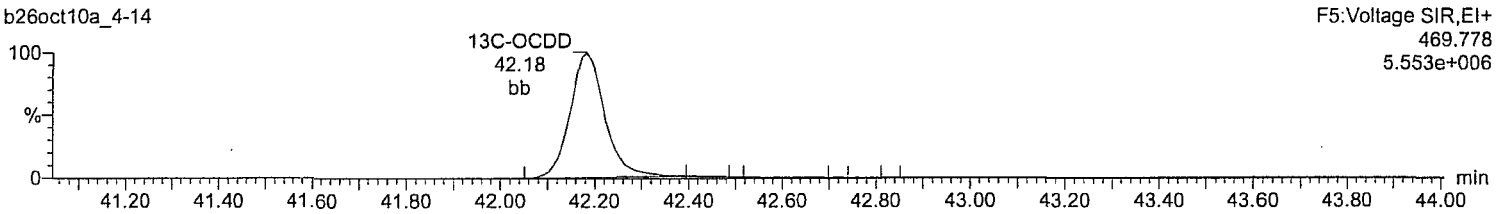
OCDF



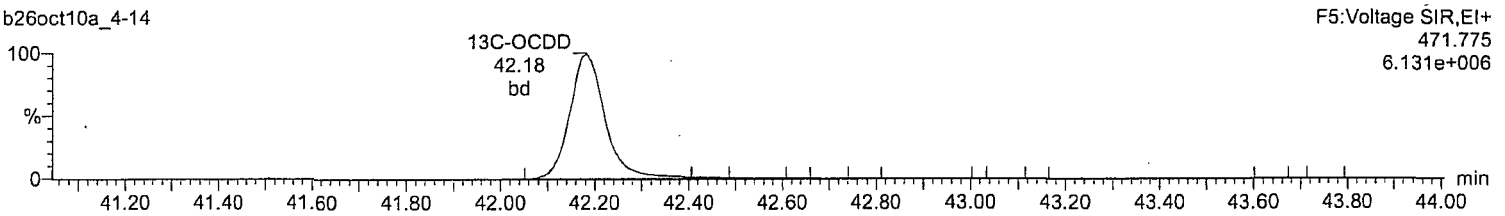
OCDF



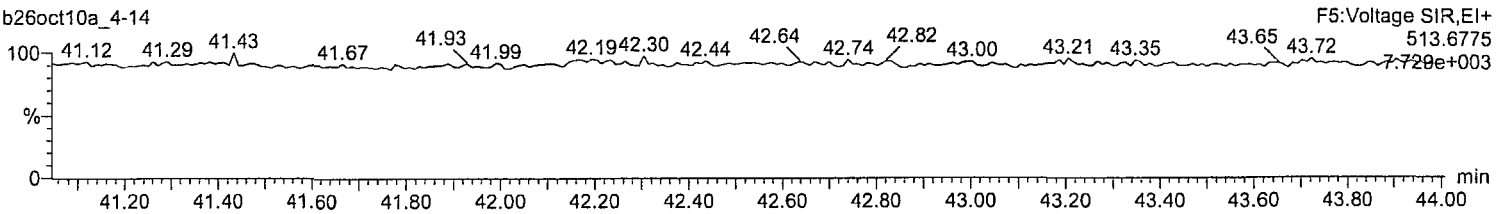
13C-OCDD



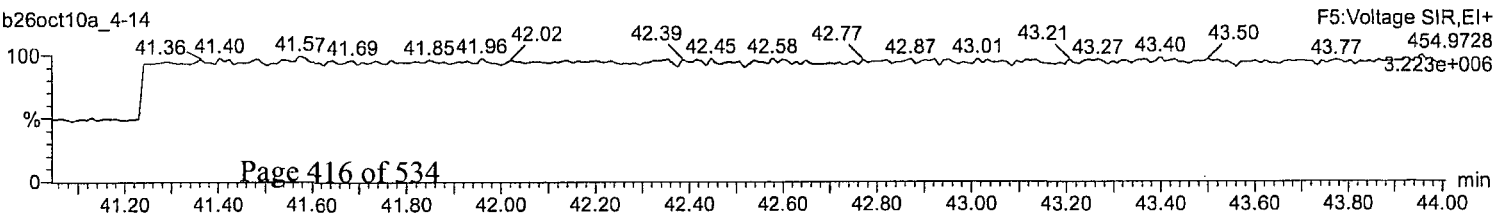
13C-OCDD



DeDPE



Lock Mass F5



Runlog Information

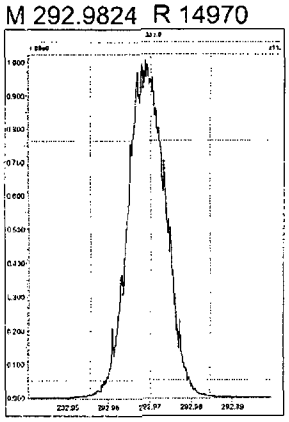
lhmP
04Nov10

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
	b29oct10a-1	HRP763_1	29-OCT-2010 17:33	b29oct10a	Matt Cash		CS3WT UD100713-01.2	1 uL
	b29oct10a-2	HRP763_1	29-OCT-2010 18:18	b29oct10a	Matt Cash		SB	1 uL
	b29oct10a-3	HRP763_1	29-OCT-2010 19:04	HMS8290TCS	Matt Cash	17153	1741007-1	1 uL
	b29oct10a-4	HRP763_1	29-OCT-2010 19:50	HMS8290TCS	Matt Cash	17153	1741008-1	1 uL
	b29oct10a-5	HRP763_1	29-OCT-2010 20:36	HMS8290TCS	Matt Cash	17153	1741009-1	1 uL
	b29oct10a-6	HRP763_1	29-OCT-2010 21:22	HMS8290TCS	Matt Cash	17153	1741010-1	1 uL
	b29oct10a-7	HRP763_1	29-OCT-2010 22:08	HMS8290TCS	Matt Cash	17153	1741011-1	1 uL
	b29oct10a-8	HRP763_1	29-OCT-2010 22:54	HMS8290TCS	Matt Cash	17153	12002004-1 MS	1 uL
	b29oct10a-9	HRP763_1	29-OCT-2010 23:40	HMS8290TCS	Matt Cash	17153	12002005-1 MSD	1 uL
	b29oct10a-10	HRP763_1	30-OCT-2010 00:26	HMS8290TCS	Matt Cash	17153	1741012-1	1 uL
	b29oct10a-11	HRP763_1	30-OCT-2010 01:12	HMS8290TCS	Matt Cash	17153	1741013-1	1 uL
	b29oct10a-12	HRP763_1	30-OCT-2010 01:58	HMS8290TCS	Matt Cash	17153	1741014-1	1 uL
	b29oct10a-13	HRP763_1	30-OCT-2010 02:44	HMS8290TCS	Matt Cash	17153	1741015-1	1 uL
	b29oct10a-14	HRP763_1	30-OCT-2010 03:30	HMS8290TCS	Matt Cash	17153	1741016-1	1 uL
	b29oct10a-15	HRP763_1	30-OCT-2010 04:16	b29oct10a	Matt Cash		CS3WT UD100713-01.2	1 uL

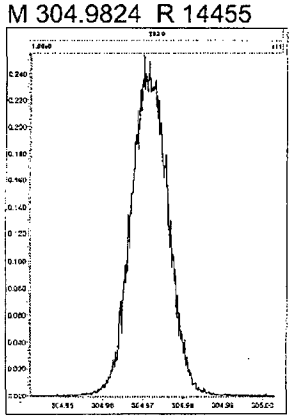
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, October 29, 2010 17:31:06 Eastern Standard Time

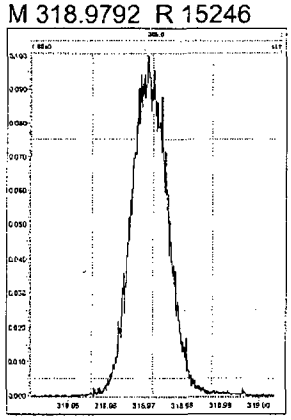
M 292.9824 R 14970



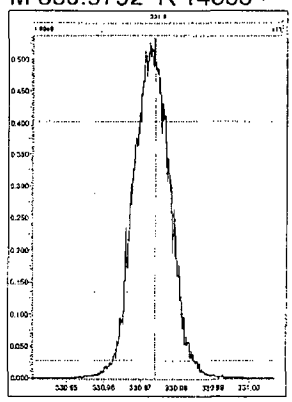
M 304.9824 R 14455



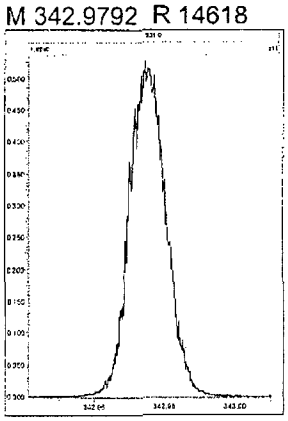
M 318.9792 R 15246



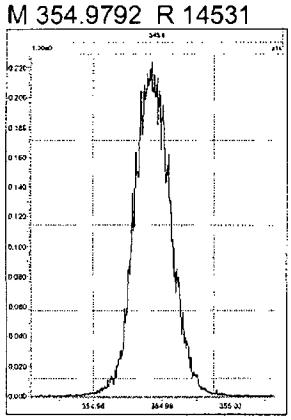
M 330.9792 R 14535



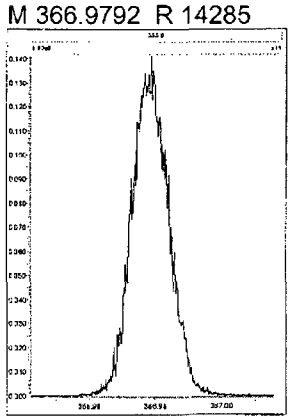
M 342.9792 R 14618



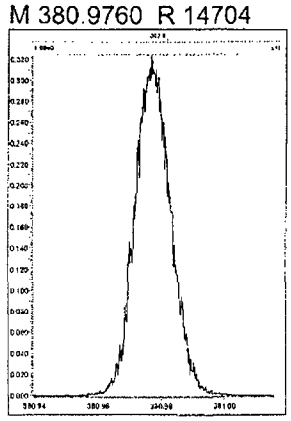
M 354.9792 R 14531



M 366.9792 R 14285



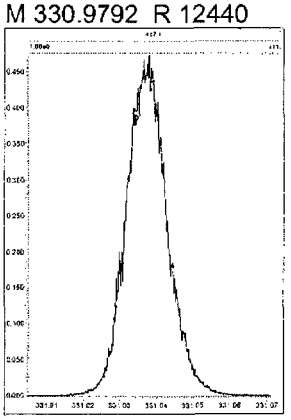
M 380.9760 R 14704



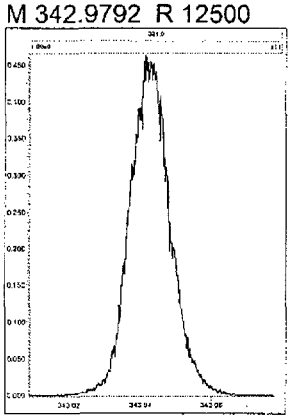
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, October 29, 2010 17:31:33 Eastern Standard Time

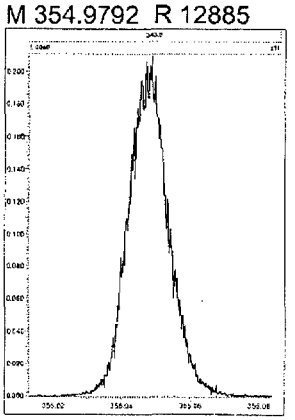
M 330.9792 R 12440



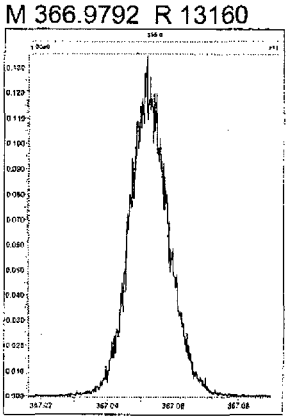
M 342.9792 R 12500



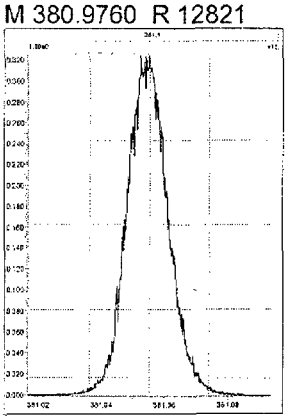
M 354.9792 R 12885



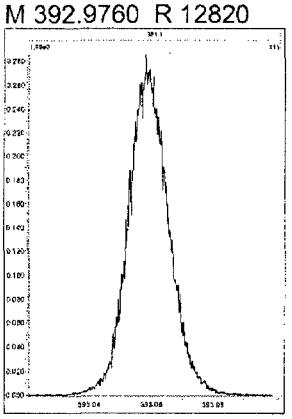
M 366.9792 R 13160



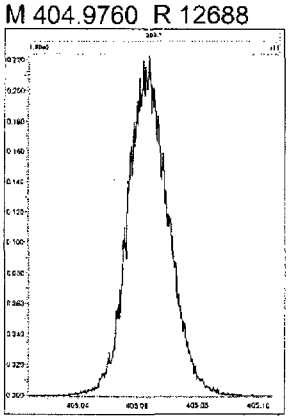
M 380.9760 R 12821



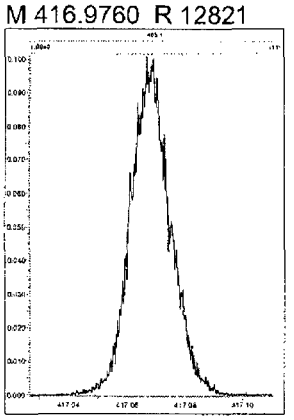
M 392.9760 R 12820



M 404.9760 R 12688



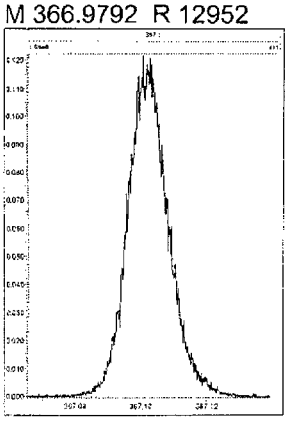
M 416.9760 R 12821



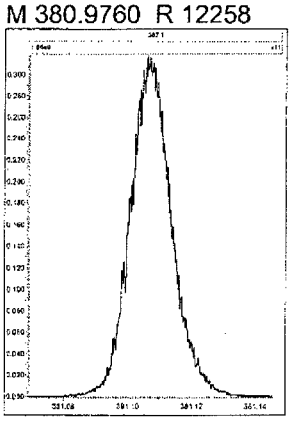
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, October 29, 2010 17:32:04 Eastern Standard Time

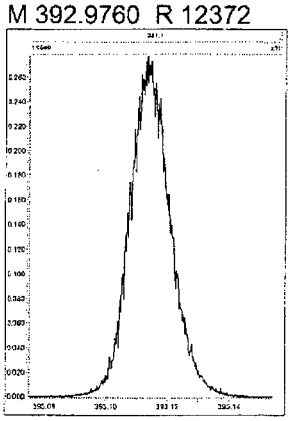
M 366.9792 R 12952



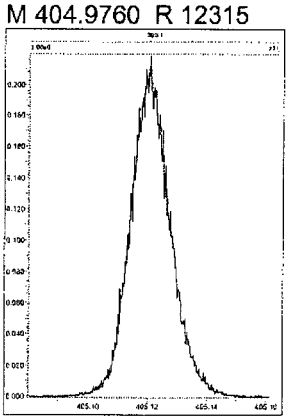
M 380.9760 R 12258



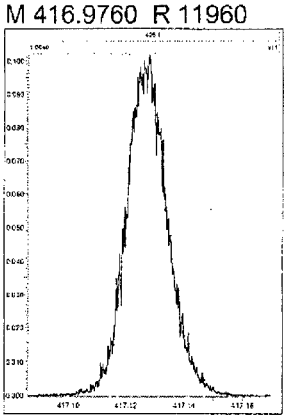
M 392.9760 R 12372



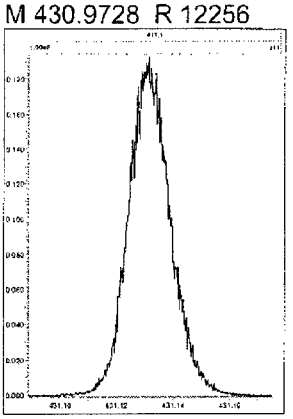
M 404.9760 R 12315



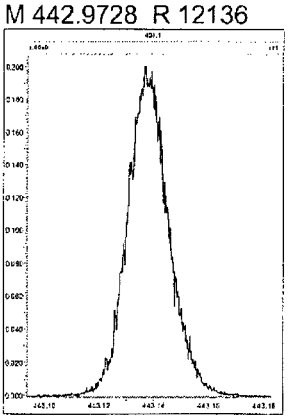
M 416.9760 R 11960



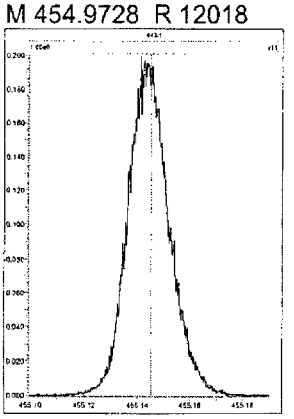
M 430.9728 R 12256



M 442.9728 R 12136



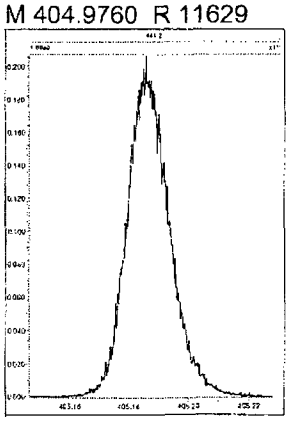
M 454.9728 R 12018



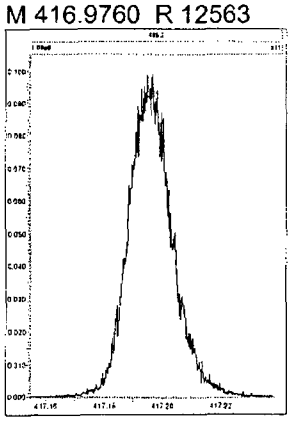
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, October 29, 2010 17:32:24 Eastern Standard Time

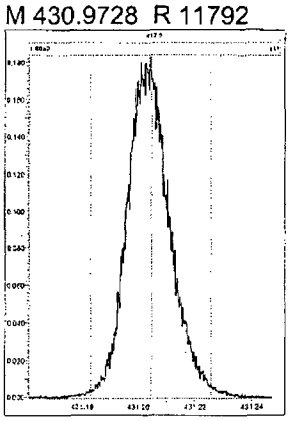
M 404.9760 R 11629



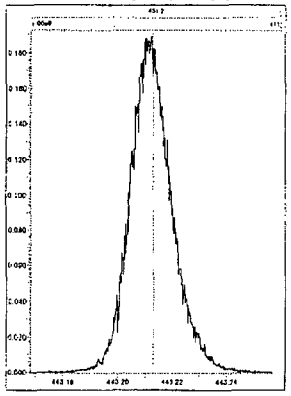
M 416.9760 R 12563



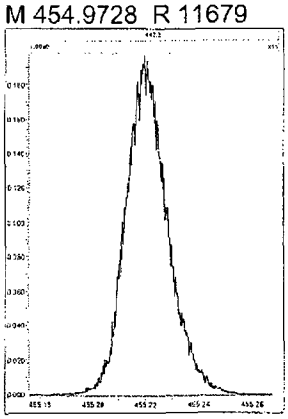
M 430.9728 R 11792



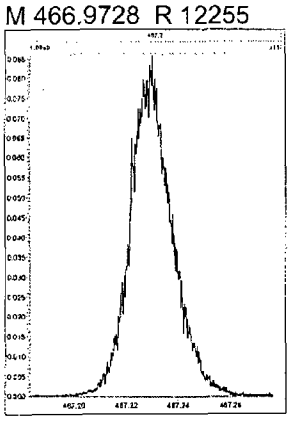
M 442.9728 R 11739



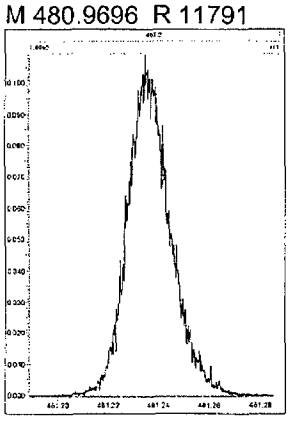
M 454.9728 R 11679



M 466.9728 R 12255



M 480.9696 R 11791



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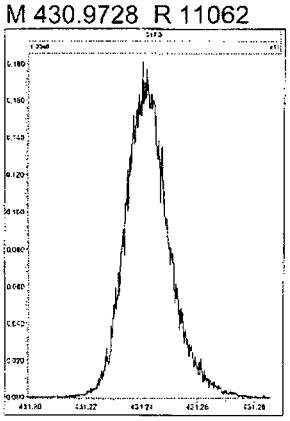
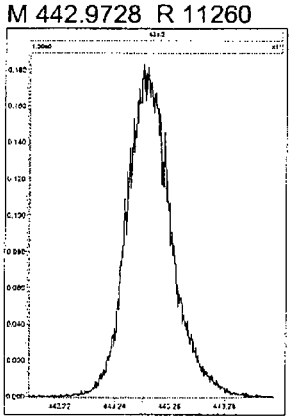
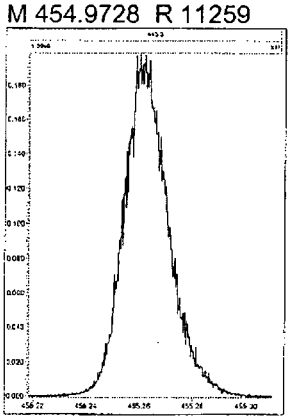
M 430.9728 R 11062



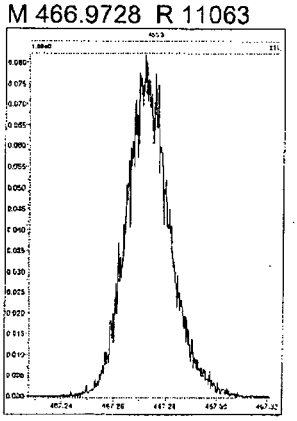
M 442.9728 R 11260



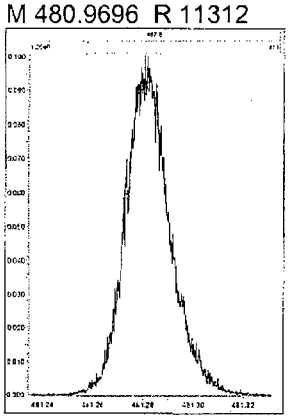
M 454.9728 R 11259



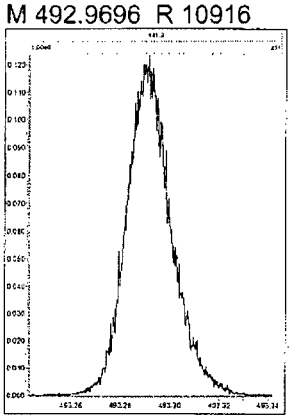
M 466.9728 R 11063



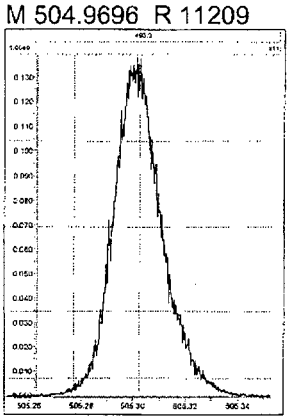
M 480.9696 R 11312



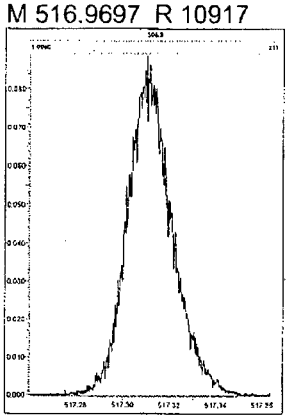
M 492.9696 R 10916



M 504.9696 R 11209



M 516.9697 R 10917



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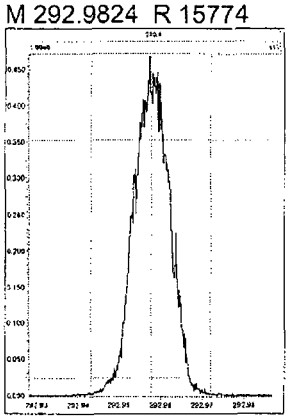
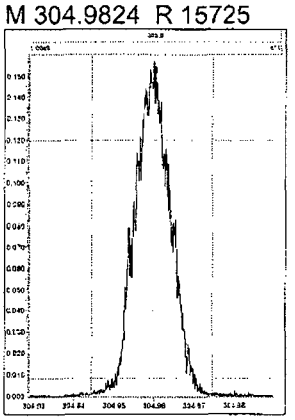
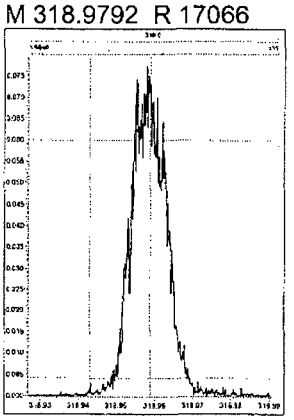
M 292.9824 R 15774



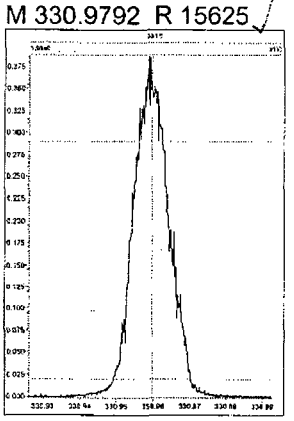
M 304.9824 R 15725



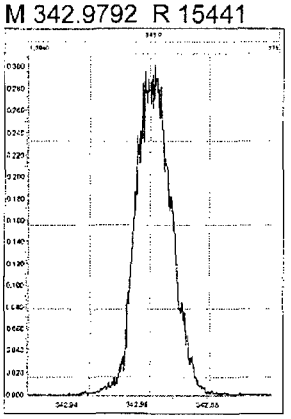
M 318.9792 R 17066



M 330.9792 R 15625



M 342.9792 R 15441



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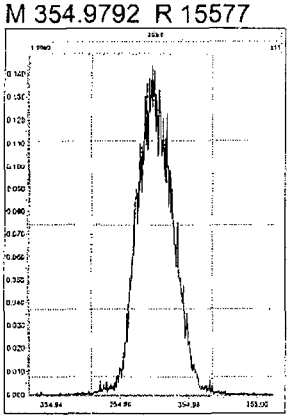

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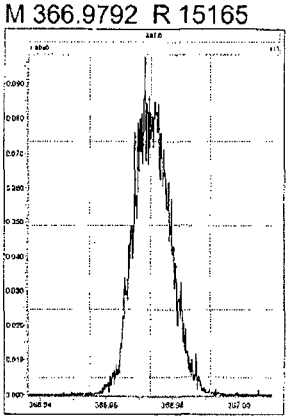
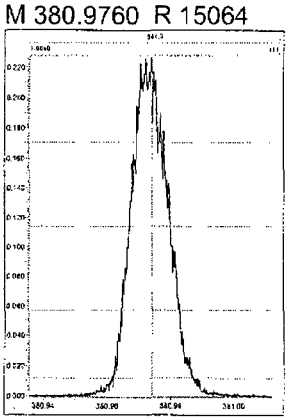


M 380.9760 R 15064



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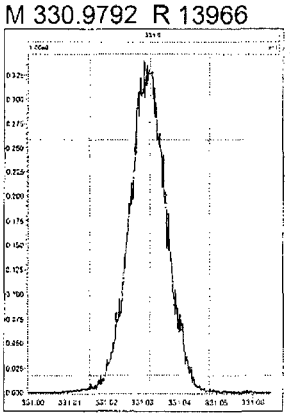

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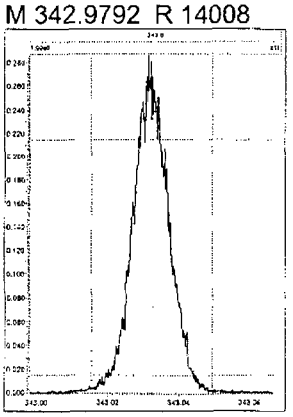
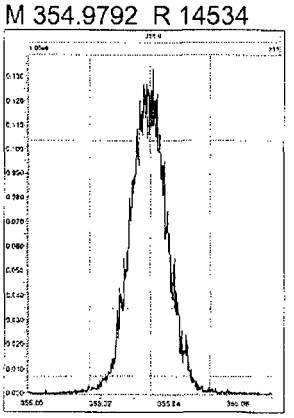
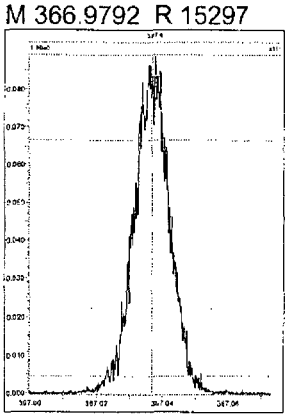


M 354.9792 R 14534



M 366.9792 R 15297



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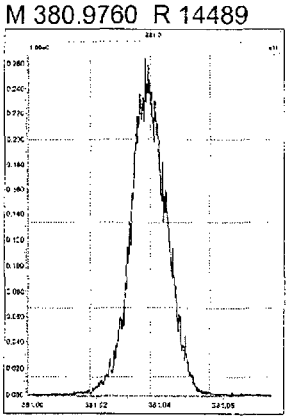
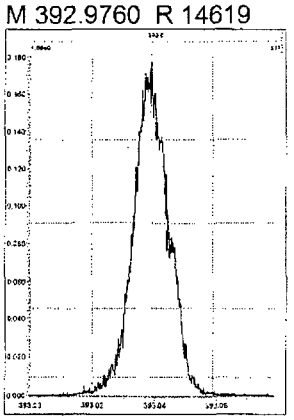
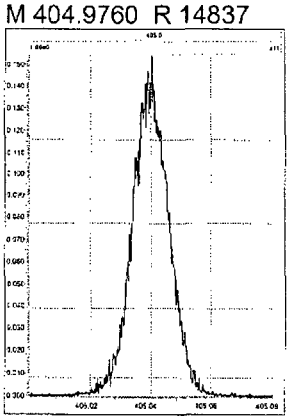


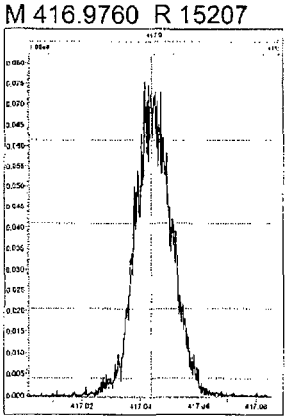
M 392.9760 R 14619



M 404.9760 R 14837



M 416.9760 R 15207



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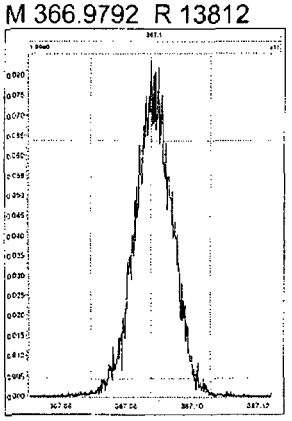
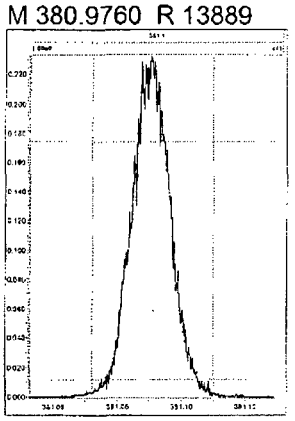
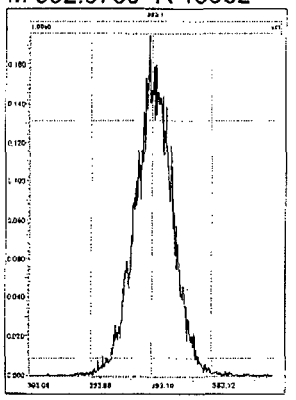
M 366.9792 R 13812



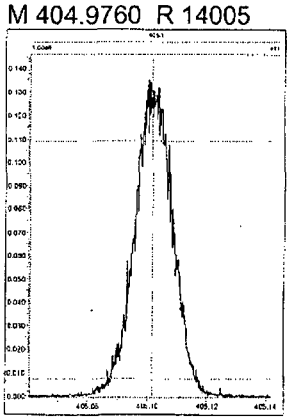
M 380.9760 R 13889



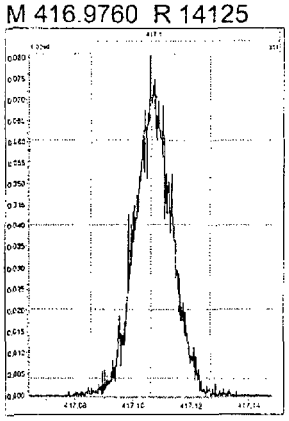
M 392.9760 R 13932



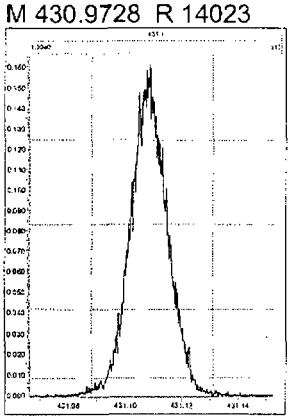
M 404.9760 R 14005



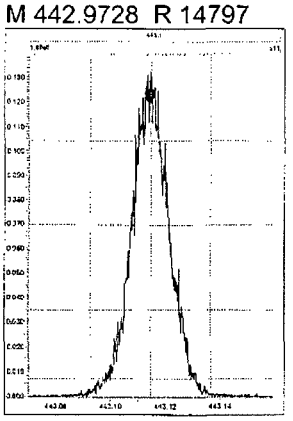
M 416.9760 R 14125



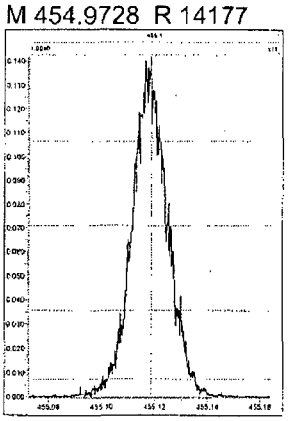
M 430.9728 R 14023



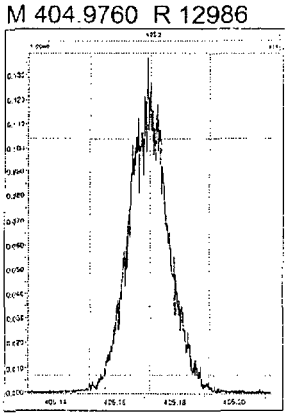
M 442.9728 R 14797



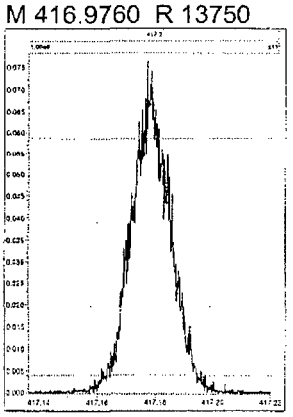
M 454.9728 R 14177



M 404.9760 R 12986



M 416.9760 R 13750



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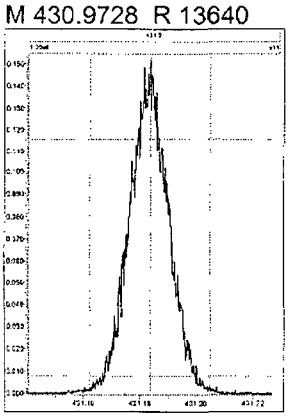

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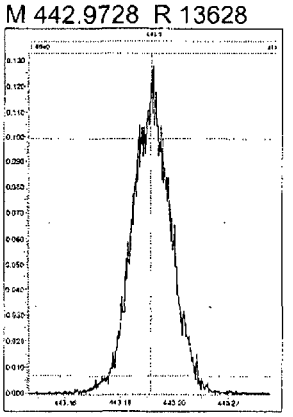
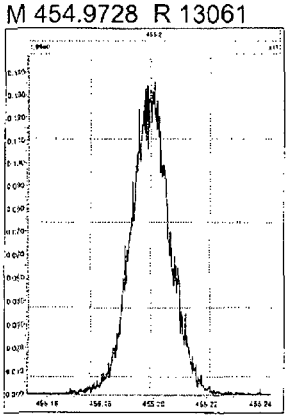
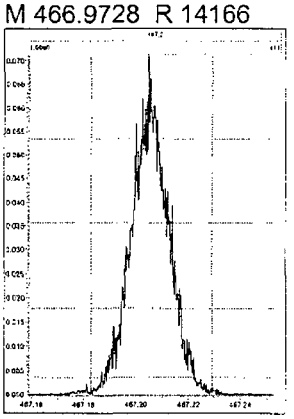


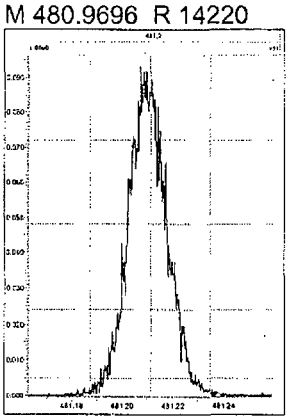
M 454.9728 R 13061



M 466.9728 R 14166



M 480.9696 R 14220



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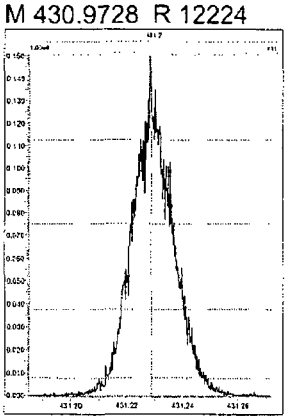

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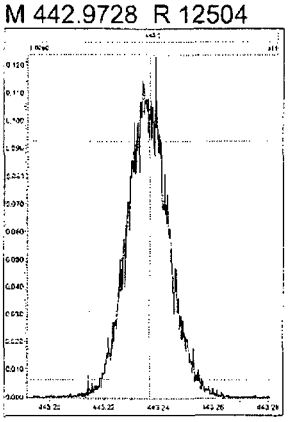
M 442.9728 R 12504



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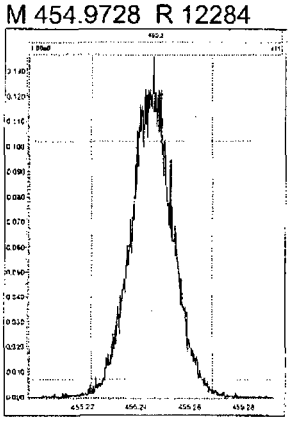
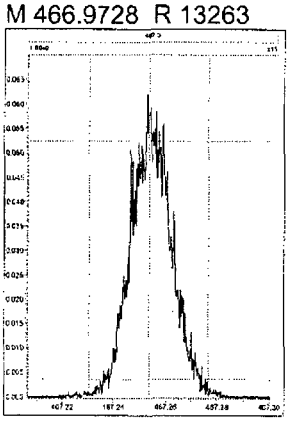
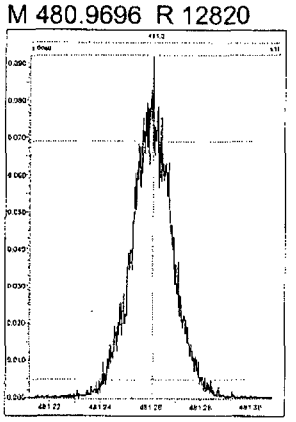


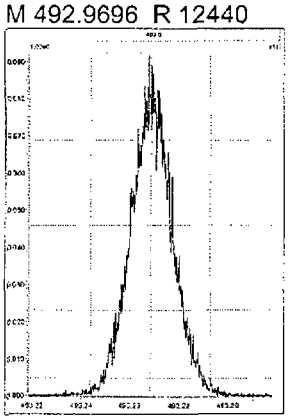
M 466.9728 R 13263



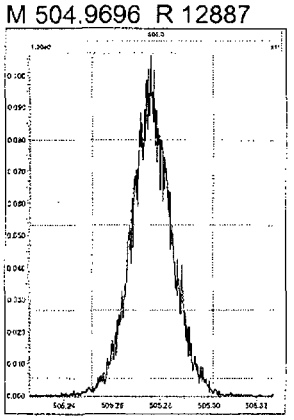
M 480.9696 R 12820



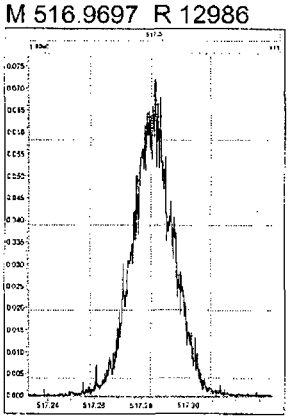
M 492.9696 R 12440



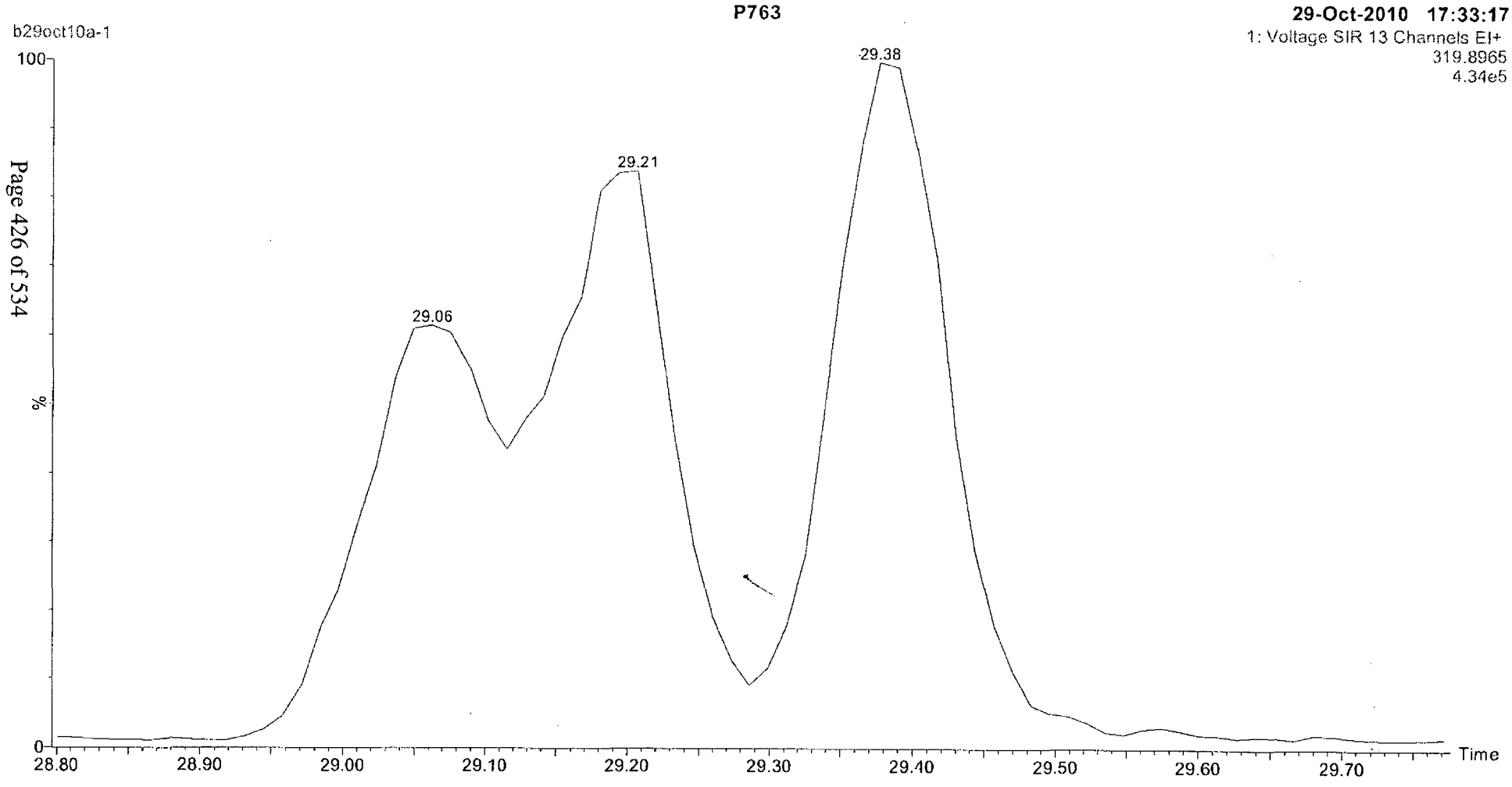
M 504.9696 R 12887



M 516.9697 R 12986



COLUMN CHECK (2378-TCDD 9%)



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b29oct10a-1.qld

Last Altered: Wednesday, November 03, 2010 12:06:35 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:11:09 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: No Calibration

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	24.25
2	Last TCDF	30.58
3	First PeCDF	30.57
4	Last PeCDF	33.57
5	First HxCDF	34.05
6	Last HxCDF	36.13
7	First HpCDF	37.44
8	Last HpCDF	39.12
9	OCDF	42.46
10	First TCDD	25.93
11	2378-TCDD	29.38
12	Last TCDD	30.45
13	First PeCDD	31.91
14	Last PeCDD	33.42
15	First HxCDD	34.44
16	Last HxCDD	35.85
17	First HpCDD	37.74
18	Last HpCDD	38.55
19	OCDD	42.20

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

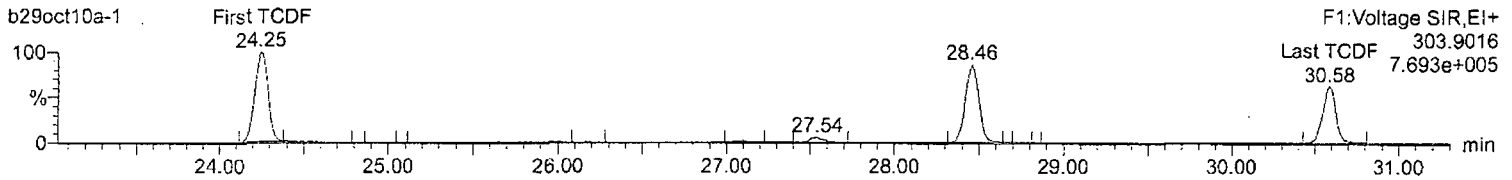
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b29oct10a-1.qld

Last Altered: Wednesday, November 03, 2010 12:06:35 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:11:09 Eastern Standard Time

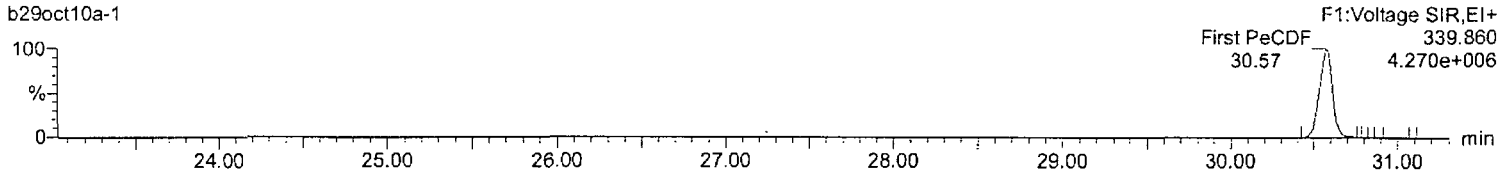
Method: C:\MassLynx\Default.pro\Methdb\WDM_101810.mdb 19 Oct 2010 08:23:47
Calibration: No Calibration

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

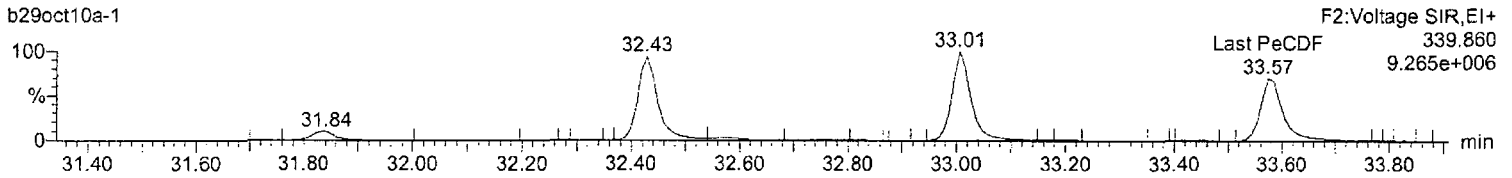
First TCDF



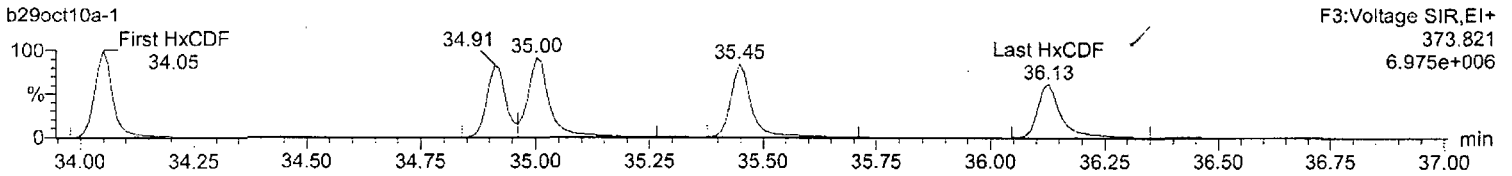
First PeCDF



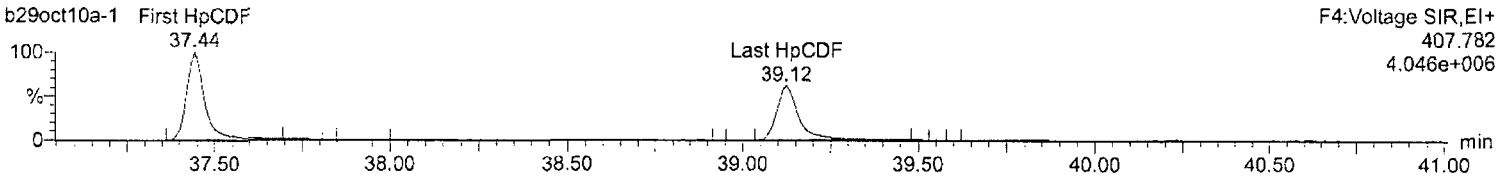
Last PeCDF



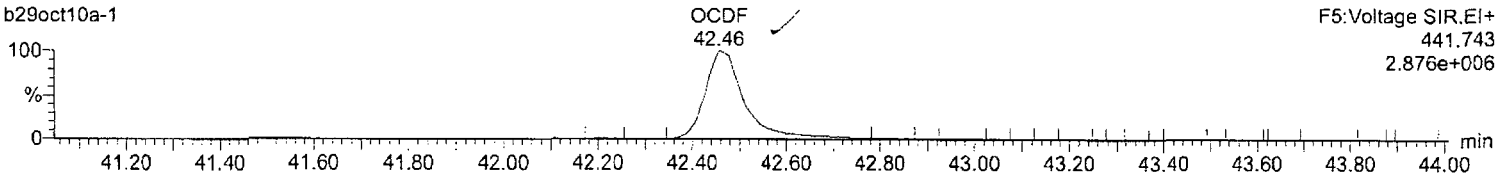
First HxCDF



First HpCDF



OCDF



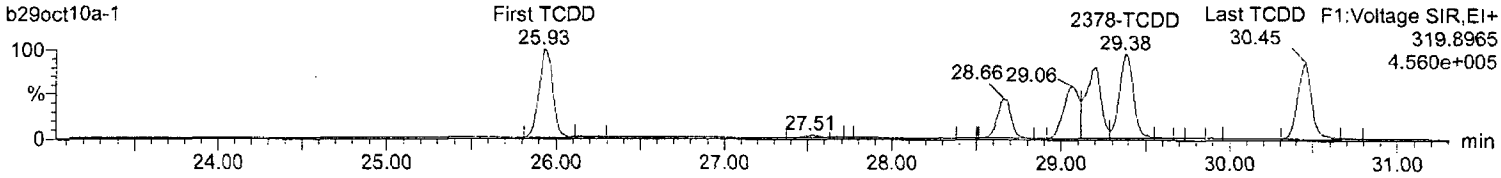
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b29oct10a-1.qld

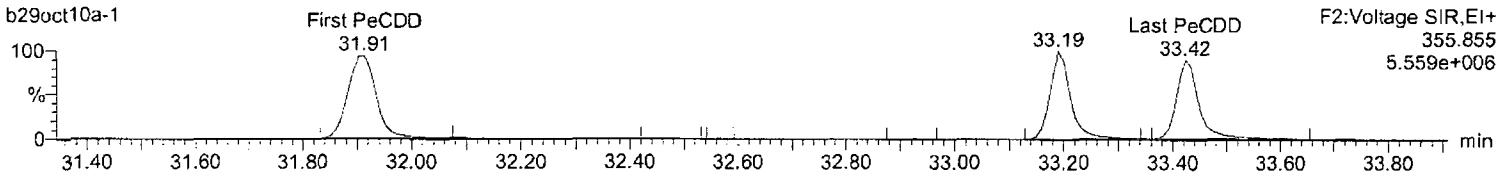
Last Altered: Wednesday, November 03, 2010 12:06:35 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:11:09 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

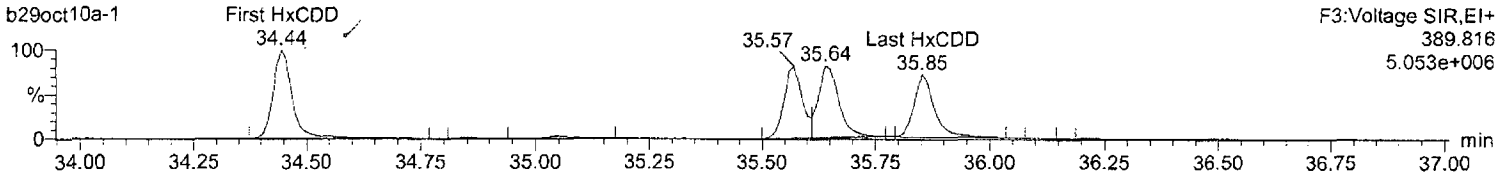
First TCDD



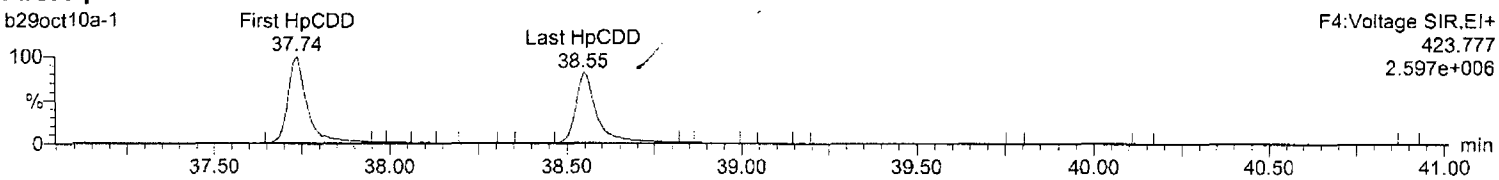
First PeCDD



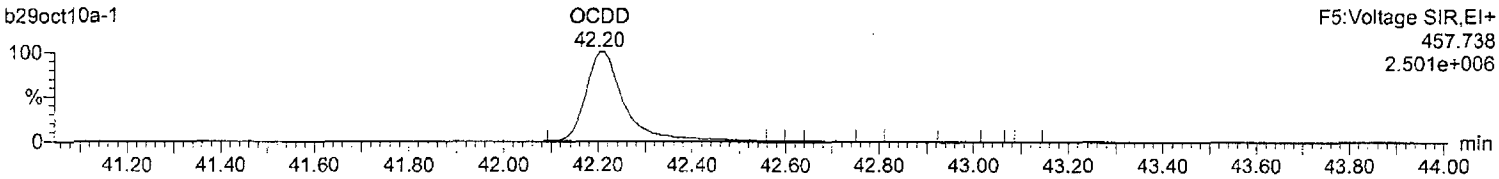
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	4.14e4	5.35e4	9.49e4	29.38	1.000	0.77	NO	11.484	0.114	1.062	14.8	4.28e5	1641	260.9	5.53e5	1750	316.0	dd
2	12378-PeCDD	2.35e5	1.47e5	3.81e5	33.19	1.000	1.60	NO	53.333	0.110	1.058	6.7	5.53e6	3570	1549.7	3.51e6	2606	1348.1	bb
3	123478-HxCDD	1.92e5	1.55e5	3.47e5	35.57	0.998	1.24	NO	52.552	0.230	0.823	5.1	4.09e6	4861	841.4	3.20e6	4458	718.1	bd
4	123678-HxCDD	2.12e5	1.77e5	3.88e5	35.64	1.000	1.20	NO	50.223	0.196	0.922	0.4	4.10e6	4861	843.7	3.38e6	4458	757.2	db
5	123789-HxCDD	1.84e5	1.59e5	3.42e5	35.85	1.006	1.16	NO	48.601	0.215	0.813	-2.8	3.56e6	4861	731.4	2.82e6	4458	633.4	bb
6	1234678-HpCDD	1.44e5	1.34e5	2.78e5	38.55	1.000	1.07	NO	52.145	0.336	1.028	4.3	2.09e6	4937	423.4	1.93e6	3552	544.2	bd
7	OCDD	2.31e5	2.60e5	4.92e5	42.20	1.000	0.89	NO	111.279	0.406	1.092	11.3	2.49e6	4070	612.8	2.85e6	2564	1110.7	bd
8	2378-TCDF	6.07e4	7.63e4	1.37e5	28.46	1.001	0.80	NO	9.777	0.0980	0.918	-2.2	6.60e5	1445	456.5	8.47e5	3492	242.7	bd
9	12378-PeCDF	3.67e5	2.36e5	6.03e5	32.43	1.000	1.56	NO	53.043	0.118	0.942	6.1	8.67e6	7076	1225.6	5.64e6	3616	1560.2	bd
10	23478-PeCDF	3.67e5	2.39e5	6.06e5	33.01	1.018	1.54	NO	52.599	0.116	0.946	5.2	9.22e6	7076	1303.4	6.06e6	3616	1675.9	bb
11	123478-HxCDF	2.73e5	2.22e5	4.95e5	34.91	0.998	1.23	NO	52.655	0.264	0.890	5.3	5.76e6	6993	824.1	4.81e6	8591	559.7	bd
12	123678-HxCDF	3.41e5	2.68e5	6.10e5	35.00	1.000	1.27	NO	52.302	0.213	1.097	4.6	6.40e6	6993	915.3	5.20e6	8591	605.1	db
13	234678-HxCDF	2.94e5	2.38e5	5.32e5	35.45	1.013	1.24	NO	50.879	0.237	0.958	1.8	5.86e6	6993	838.4	4.71e6	8591	548.0	bb
14	123789-HxCDF	2.45e5	1.98e5	4.44e5	36.13	1.032	1.24	NO	52.270	0.292	0.798	4.5	4.26e6	6993	608.7	3.38e6	8591	393.3	bb
15	1234678-HpCDF	2.43e5	2.30e5	4.72e5	37.44	1.000	1.06	NO	52.928	0.190	1.336	5.9	4.04e6	4352	927.9	3.91e6	5178	755.0	bd
16	1234789-HpCDF	1.76e5	1.79e5	3.55e5	39.12	1.045	0.98	NO	52.275	0.250	1.004	4.6	2.49e6	4352	572.6	2.42e6	5178	467.7	bd
17	OCDF	2.76e5	3.02e5	5.78e5	42.46	1.006	0.91	NO	107.272	0.361	1.284	7.3	2.87e6	3082	929.8	3.23e6	4108	786.0	bd
18	13C-2378-TCDD	3.95e5	4.99e5	8.94e5	29.36	1.025	0.79	NO	96.212	0.120	1.065	-3.8	4.28e6	2595	1648.4	5.32e6	1568	3394.4	bb
19	13C-12378-PeCDD	4.39e5	2.82e5	7.21e5	33.18	1.158	1.56	NO	103.229	0.285	0.860	3.2	1.04e7	4954	2091.8	6.60e6	2466	2676.8	bb
20	13C-123678-HxCDD	4.60e5	3.82e5	8.42e5	35.64	0.994	1.20	NO	101.641	0.219	1.112	1.6	8.48e6	4596	1845.5	6.53e6	5623	1162.1	dd
21	13C-1234678-HpCDD	2.78e5	2.63e5	5.41e5	38.54	1.075	1.06	NO	94.705	0.213	0.714	-5.3	3.95e6	3451	1145.4	3.73e6	3407	1094.7	bd
22	13C-OCDD	4.25e5	4.76e5	9.01e5	42.19	1.177	0.89	NO	181.006	0.361	0.595	-9.5	4.71e6	6621	711.8	5.15e6	3509	1467.8	bd
23	13C-2378-TCDF	6.62e5	8.31e5	1.49e6	28.43	0.993	0.80	NO	103.210	0.0700	1.780	3.2	7.14e6	1507	4737.0	9.07e6	2262	4009.9	bb
24	13C-12378-PeCDF	7.76e5	5.05e5	1.28e6	32.42	1.132	1.54	NO	107.934	0.374	1.527	7.9	1.86e7	9153	2028.2	1.20e7	7365	1631.6	bb
25	13C-123678-HxCDF	3.80e5	7.32e5	1.11e6	34.99	0.976	0.52	NO	99.667	0.246	1.469	-0.3	7.16e6	5698	1256.6	1.39e7	9747	1421.9	db
26	13C-1234678-HpCDF	2.19e5	4.88e5	7.07e5	37.43	1.044	0.45	NO	97.117	0.279	0.934	-2.9	3.69e6	4838	761.8	8.34e6	6621	1259.6	bb
27	13C-1234-TCDD	3.72e5	4.67e5	8.39e5	28.64	0.000	0.80	NO	100.000	0.133	1.000	0.0	4.15e6	2595	1600.2	5.19e6	1568	3306.9	bb
28	13C-123789-HxCDD	4.23e5	3.35e5	7.57e5	35.84	0.000	1.26	NO	100.000	0.240	1.000	0.0	7.14e6	4596	1553.5	5.65e6	5623	1005.7	dd
29	37Cl-2378-TCDD (SS)	9.60e4		9.60e4	29.39	1.001			10.517	0.0412	1.074	5.2	1.04e6	1356	769.6				bb
30	13C-23478-PeCDF (SS)	7.63e5	4.83e5	1.25e6	33.00	1.018	1.58	NO	102.649	0.171	0.973	2.6	1.86e7	9153	2033.1	1.21e7	7365	1644.0	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	2.99e5	5.74e5	8.74e5	34.90	0.997	0.52	NO	102.531	0.289	0.786	2.5	6.38e6	5698	1120.4	1.22e7	9747	1252.7	bd
13C-123478-HxCDD (SS)	3.75e5	2.71e5	6.46e5	35.56	0.998	1.38	NO	98.296	0.253	0.768	-1.7	7.93e6	4596	1726.3	6.22e6	5623	1106.6	bd
13C-1234789-HpCDF (SS)	1.65e5	3.78e5	5.43e5	39.11	1.045	0.44	NO	98.476	0.371	0.767	-1.5	2.16e6	4838	445.7	4.92e6	6621	743.4	bb

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

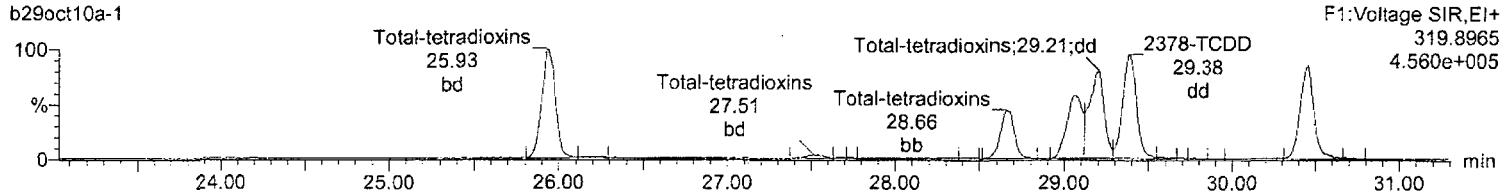
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

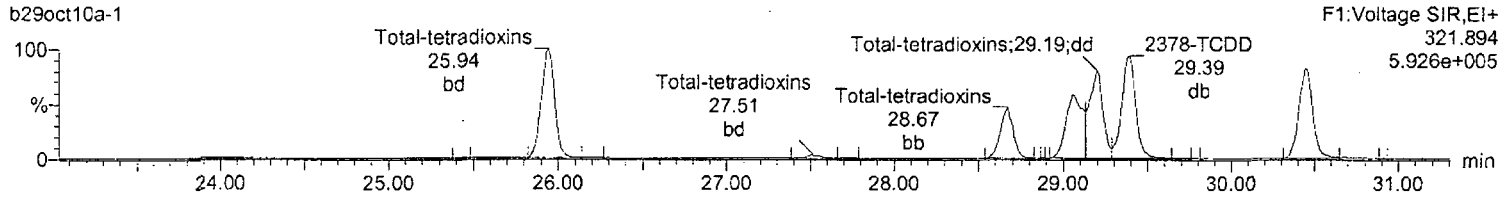
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

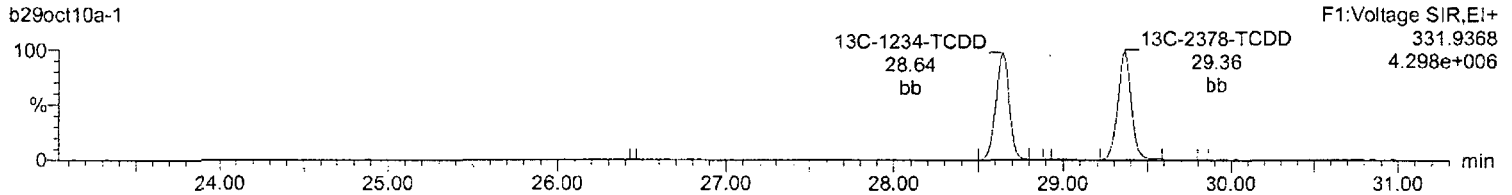
Total-tetradioxins



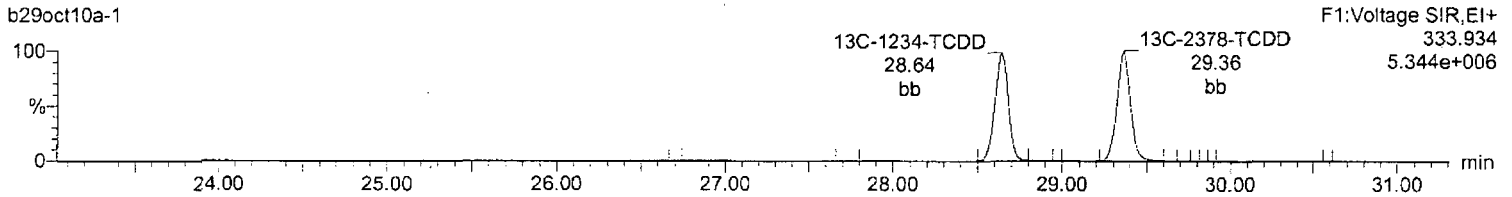
Total-tetradioxins



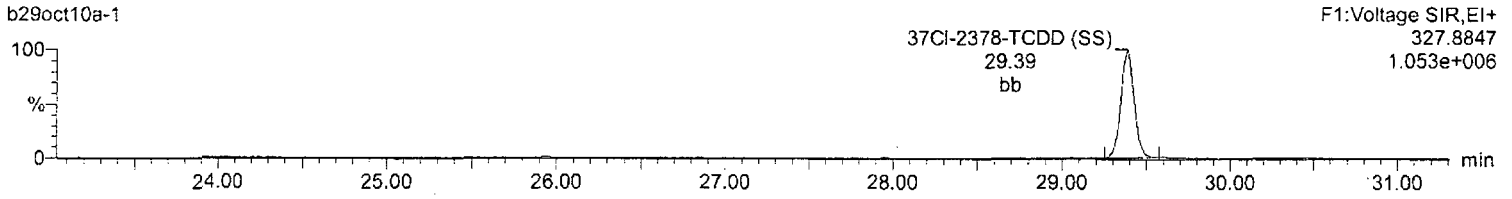
13C-2378-TCDD



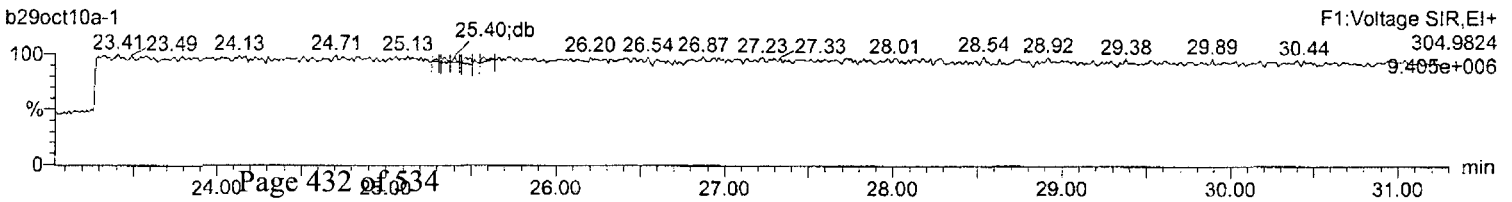
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



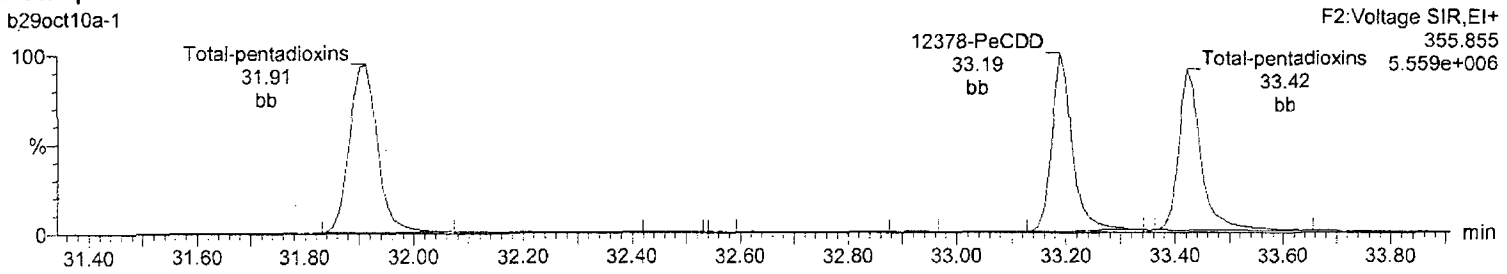
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

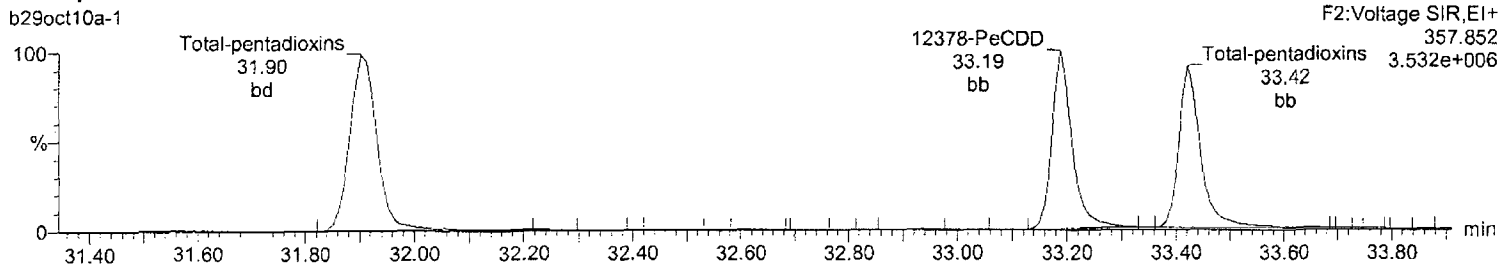
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

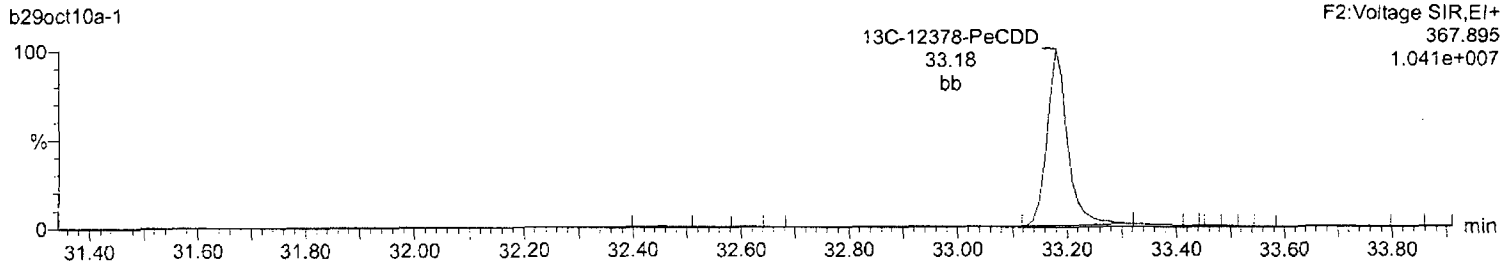
Total-pentadioxins



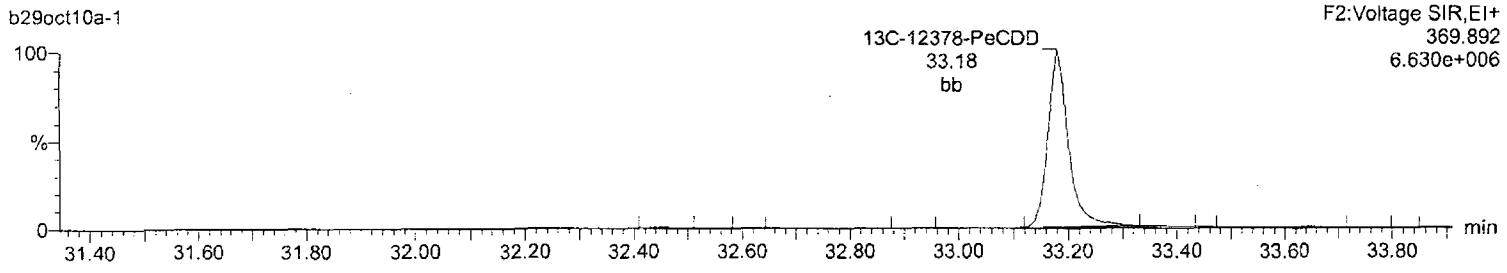
Total-pentadioxins



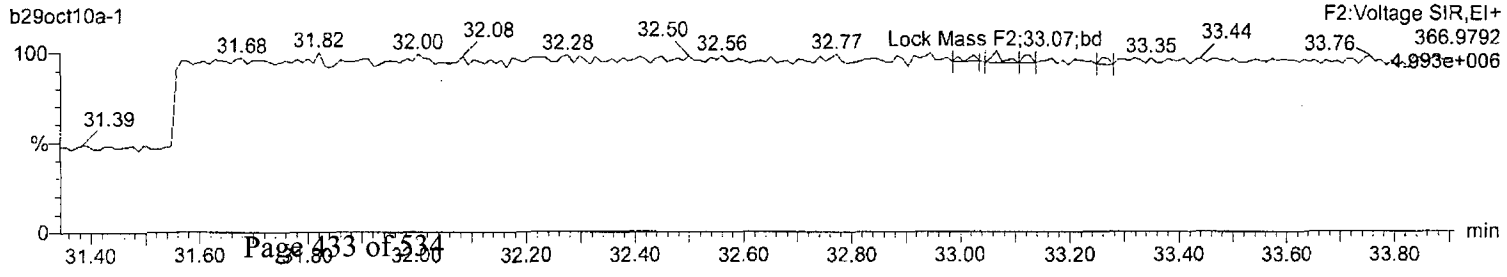
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



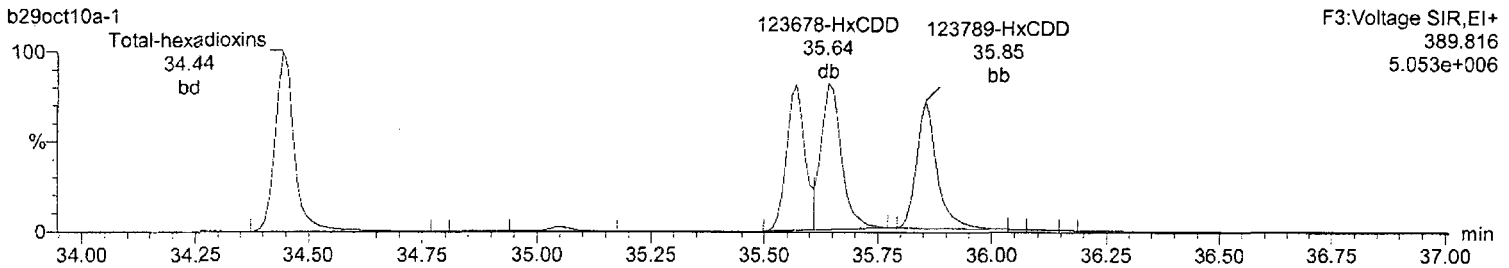
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

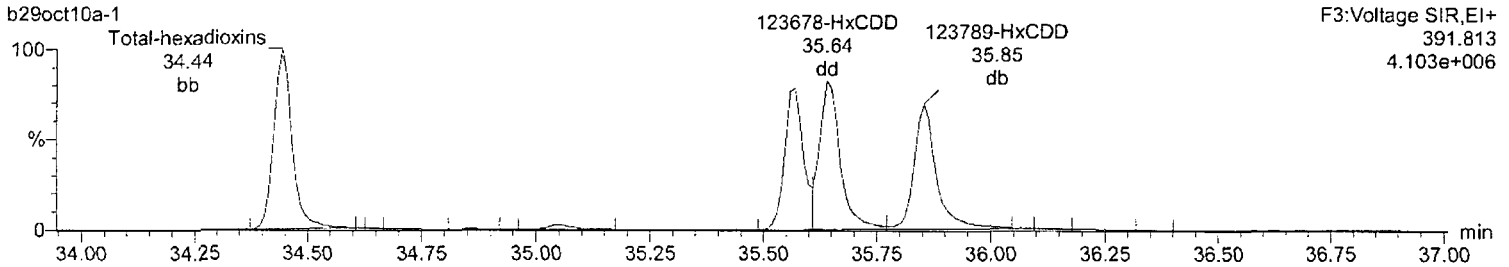
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

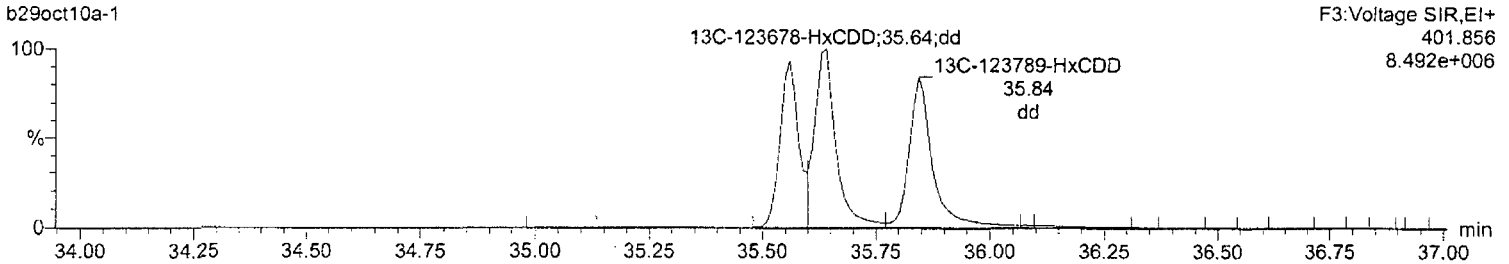
Total-hexadioxins



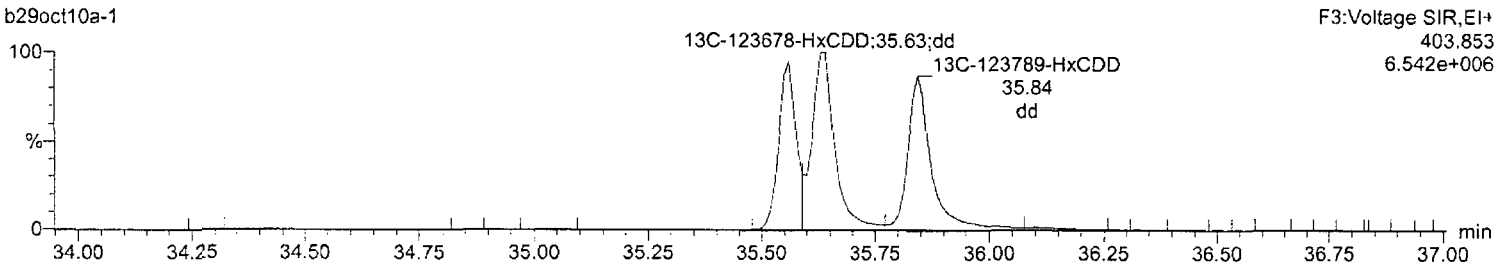
Total-hexadioxins



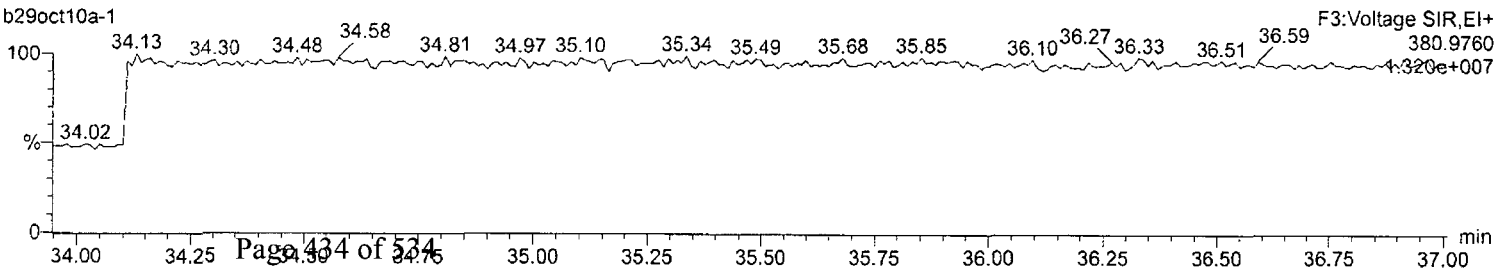
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



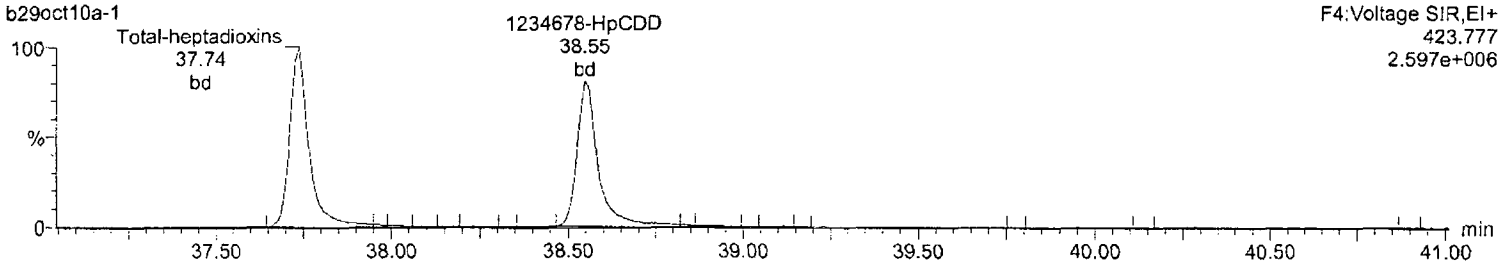
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

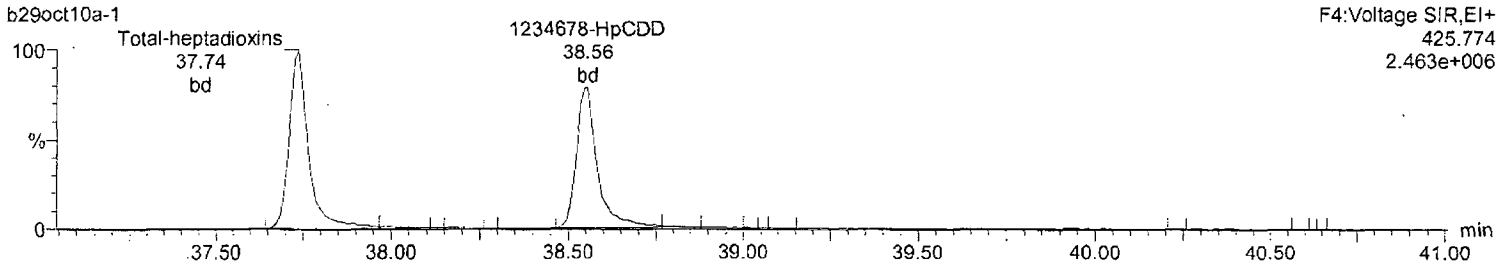
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

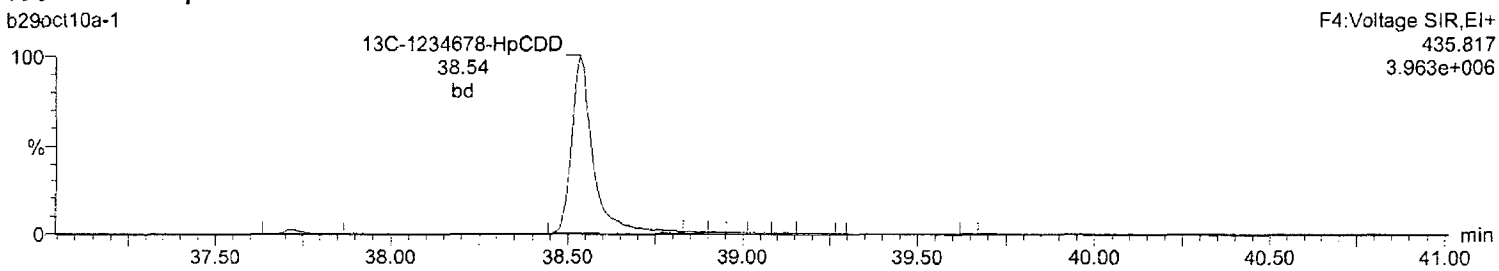
Total-heptadioxins



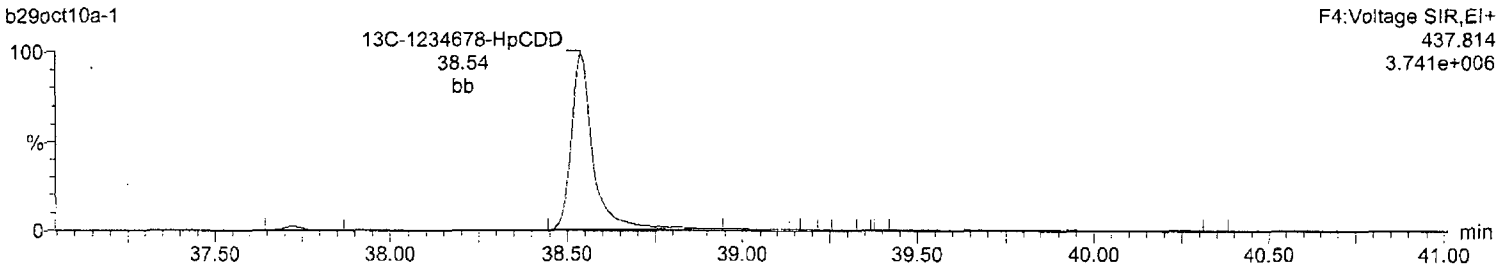
Total-heptadioxins



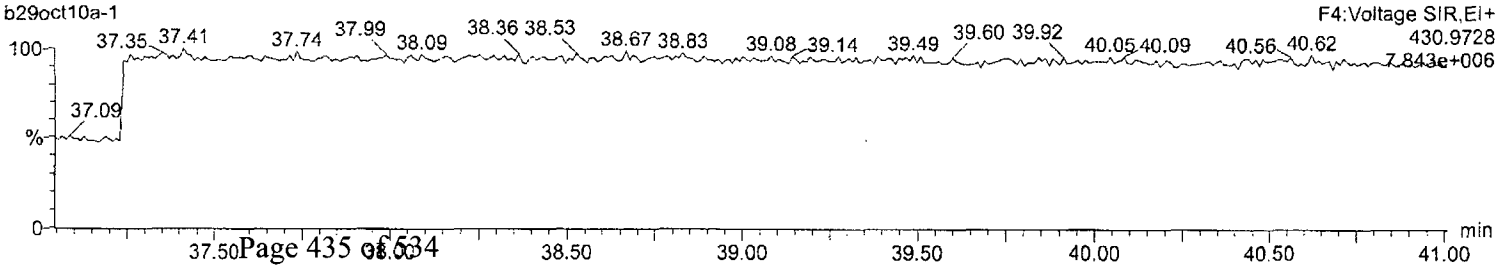
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



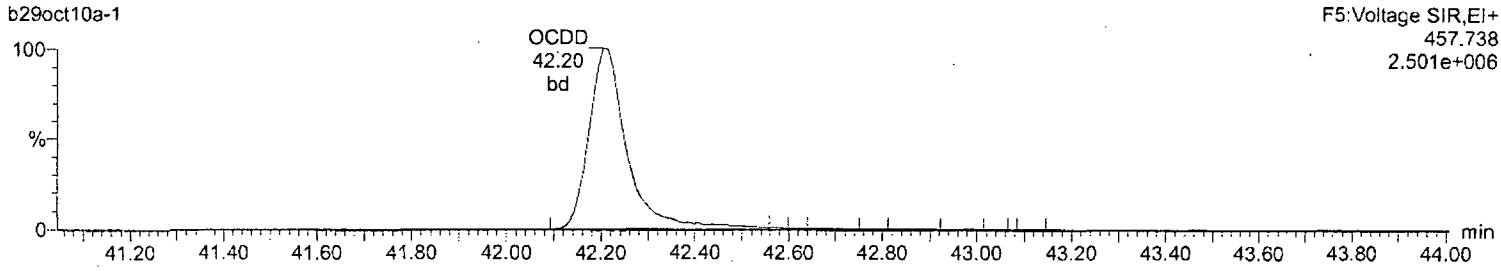
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

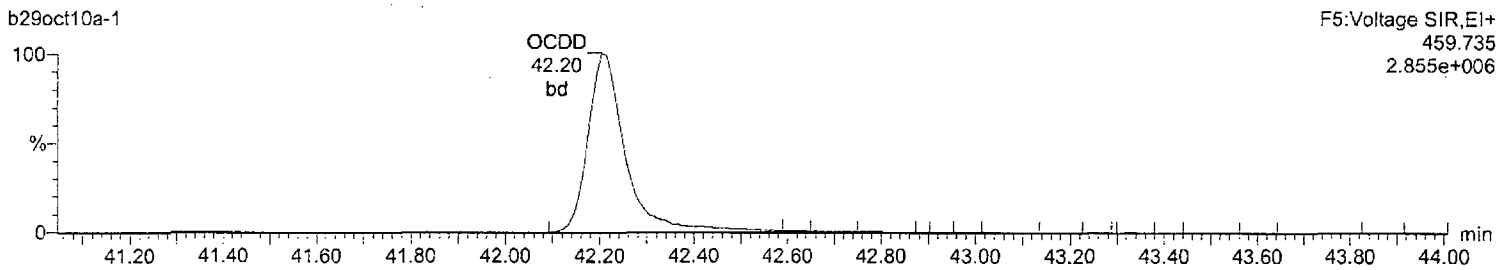
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

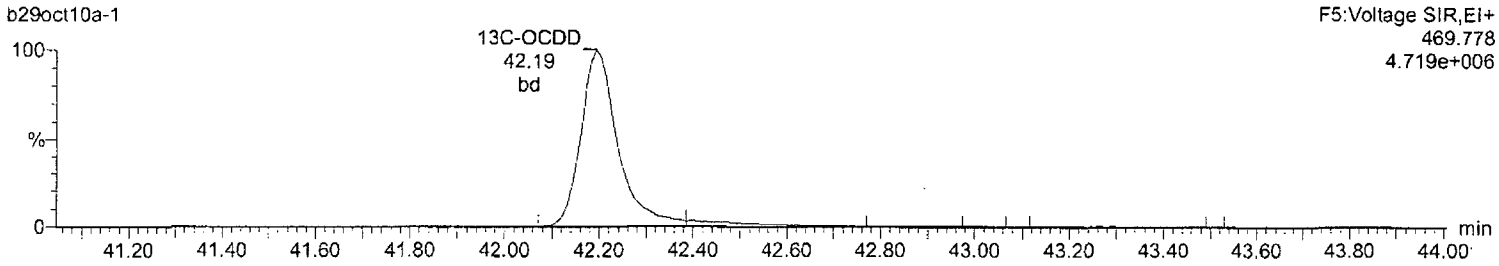
OCDD



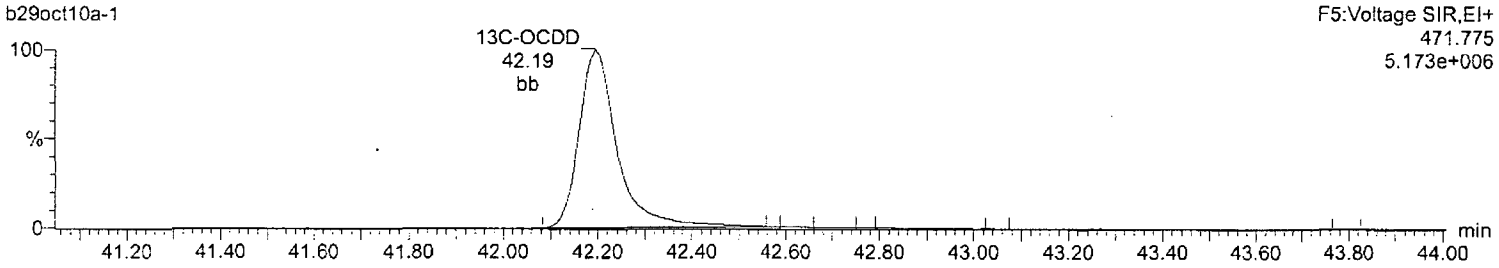
OCDD



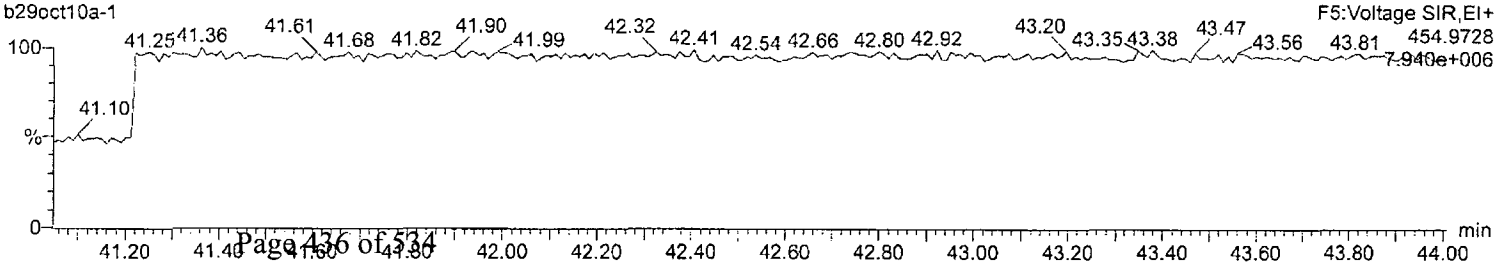
13C-OCDD



13C-OCDD



Lock Mass F5



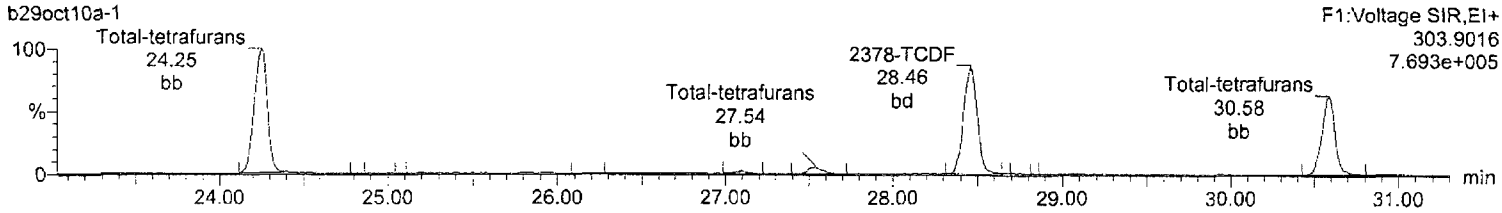
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

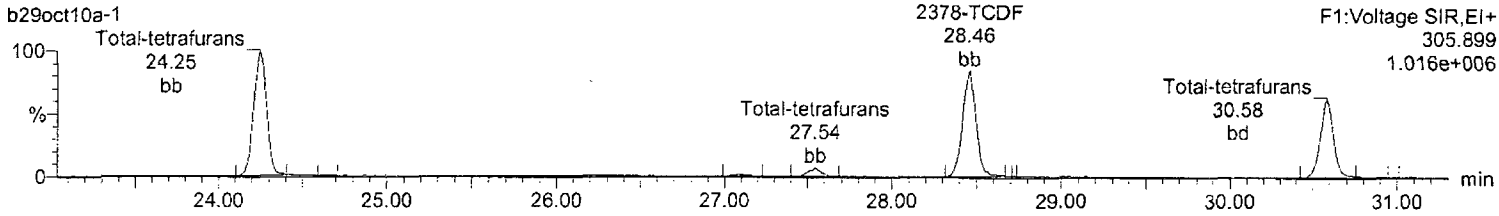
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

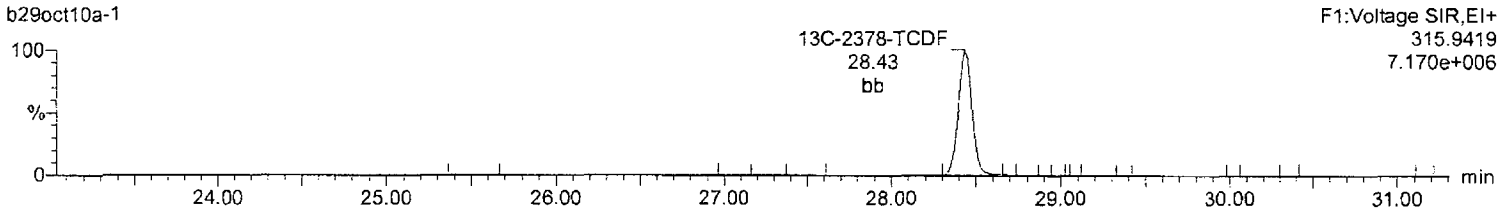
Total-tetrafurans



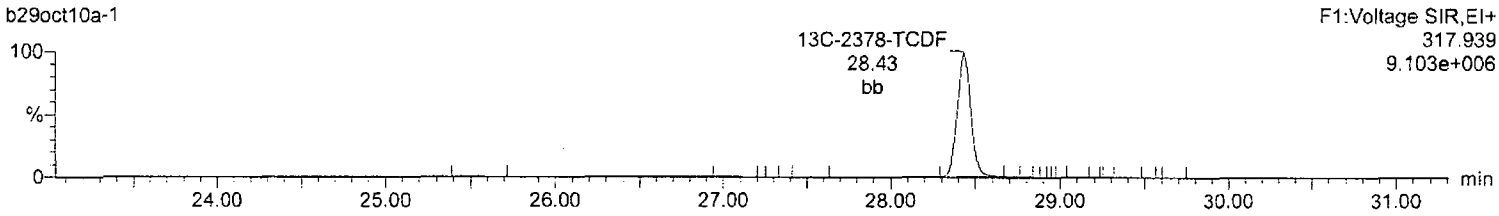
Total-tetrafurans



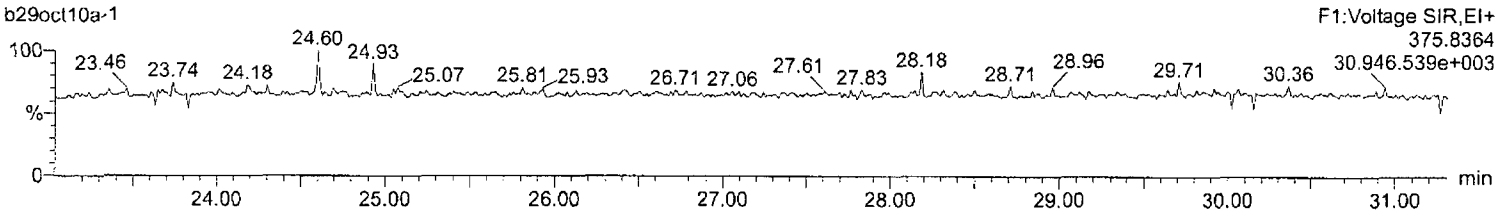
13C-2378-TCDF



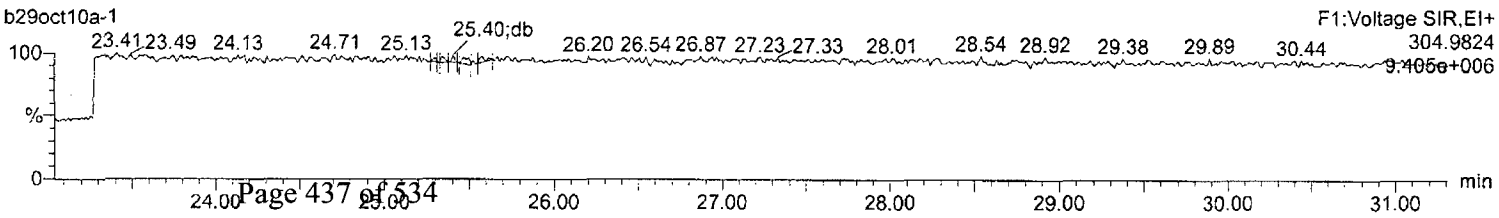
13C-2378-TCDF



HxDPE



Lock Mass F1



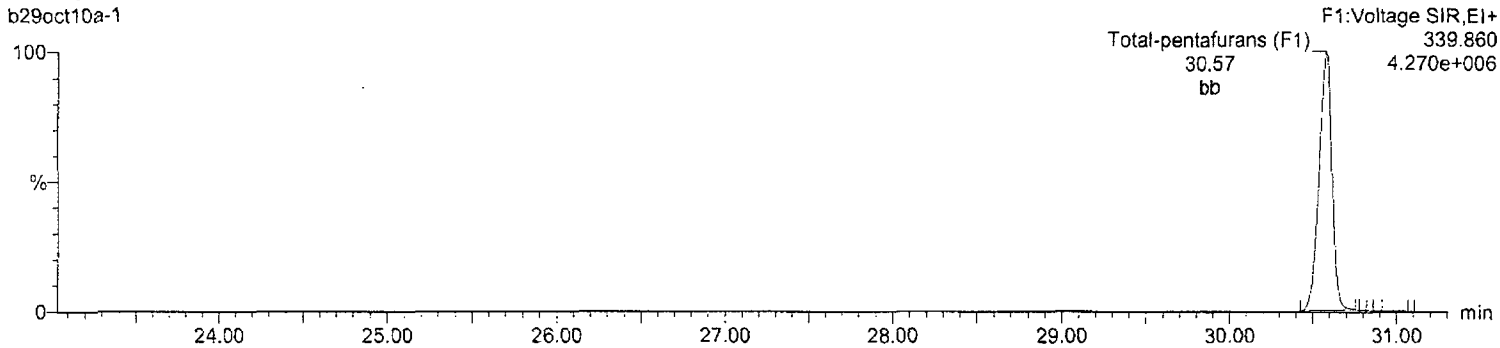
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

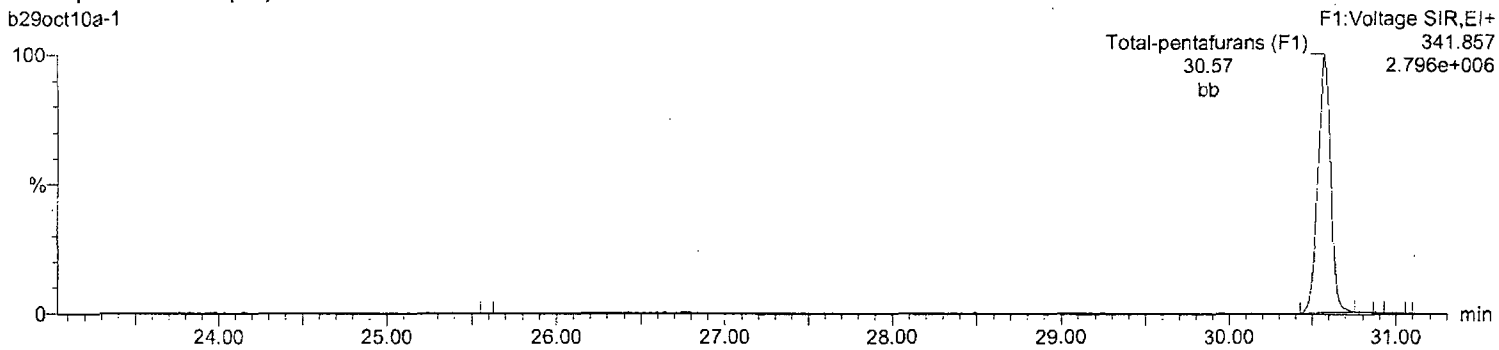
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

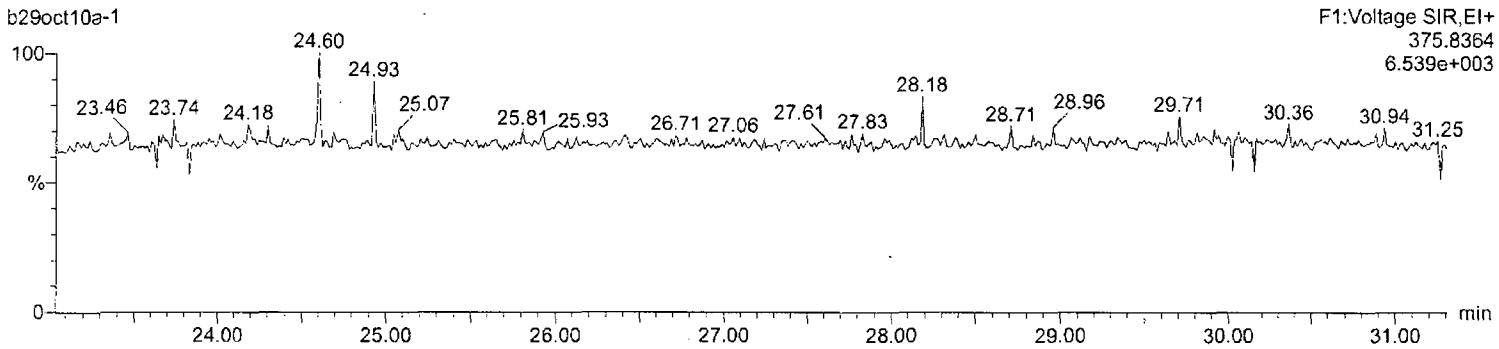
Total-pentafurans (F1)



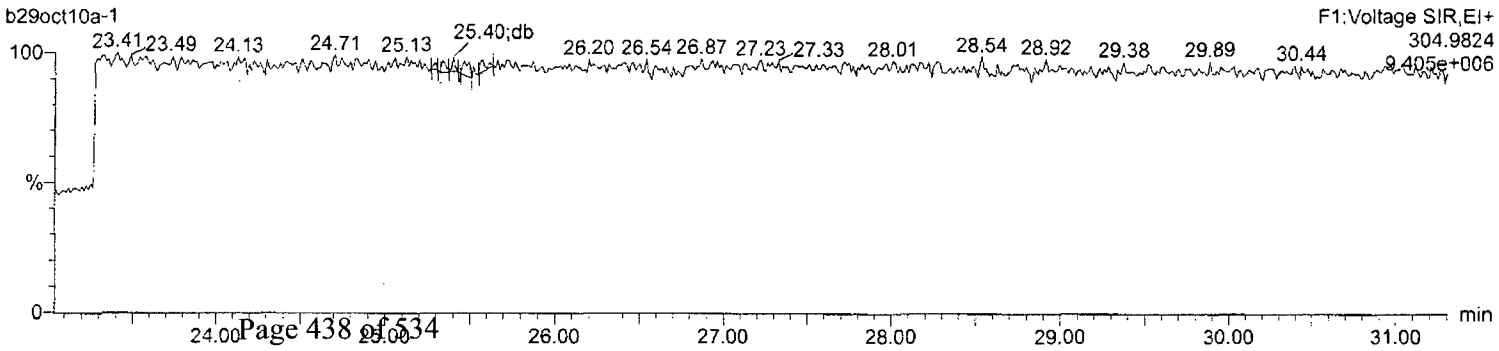
Total-pentafurans (F1)



HxDPE



Lock Mass F1



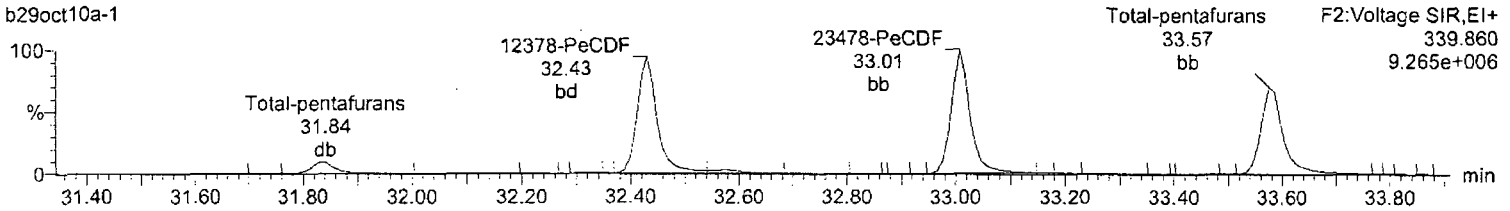
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

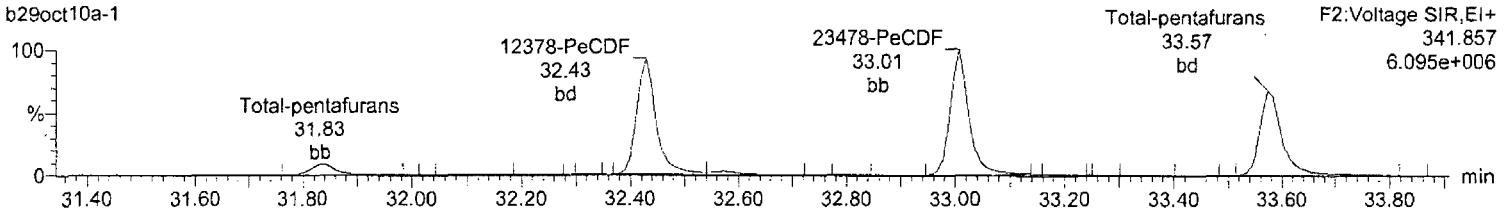
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

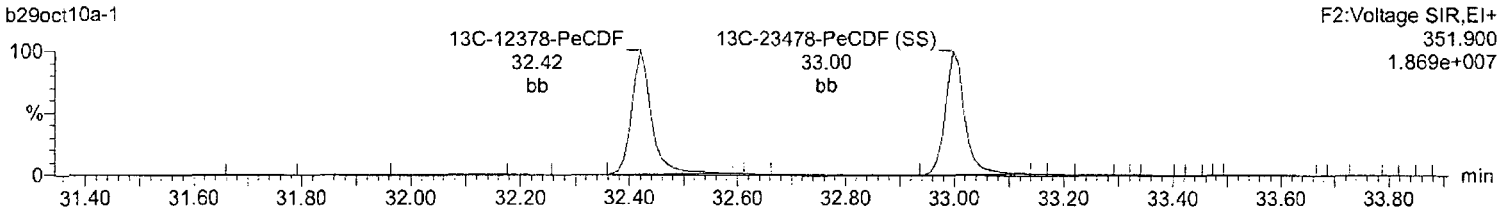
Total-pentafurans



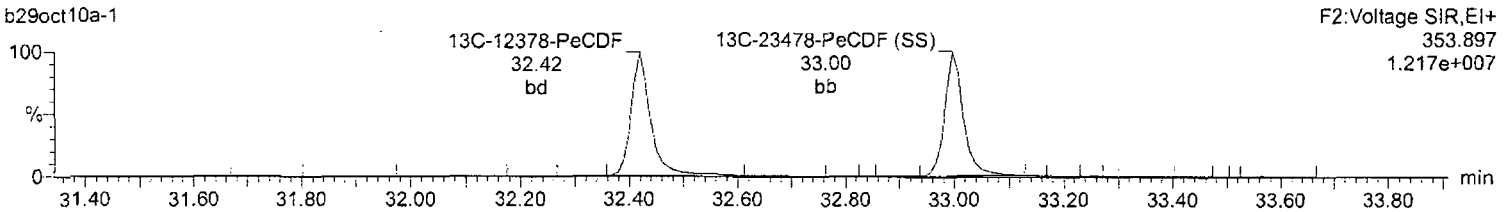
Total-pentafurans



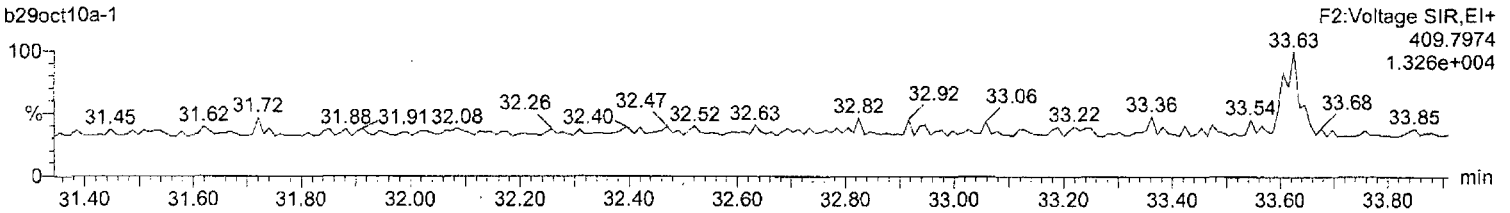
13C-12378-PeCDF



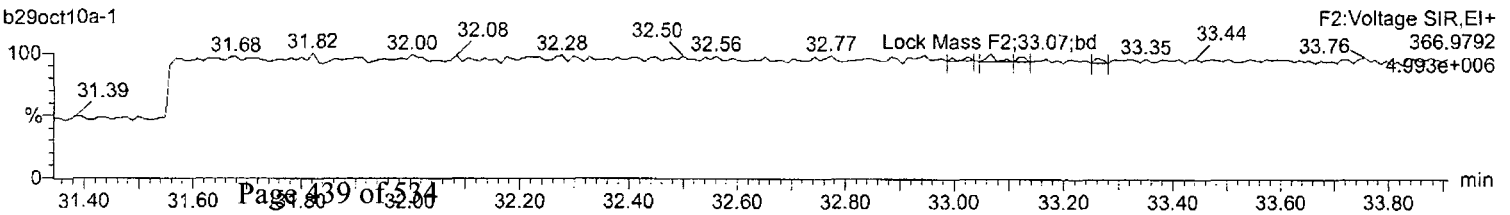
13C-12378-PeCDF



HpDPE



Lock Mass F2



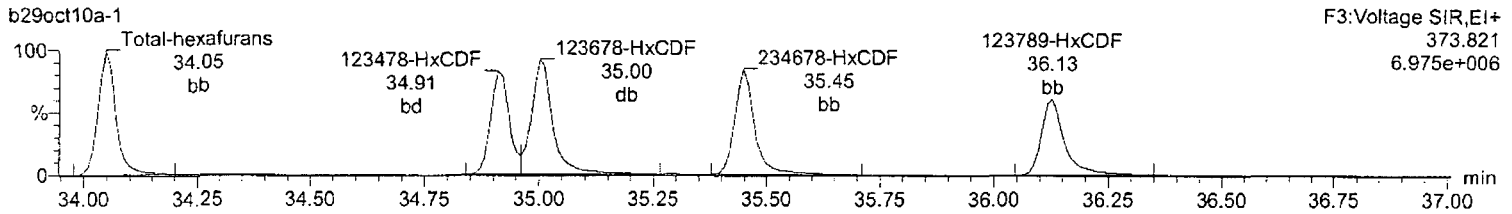
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

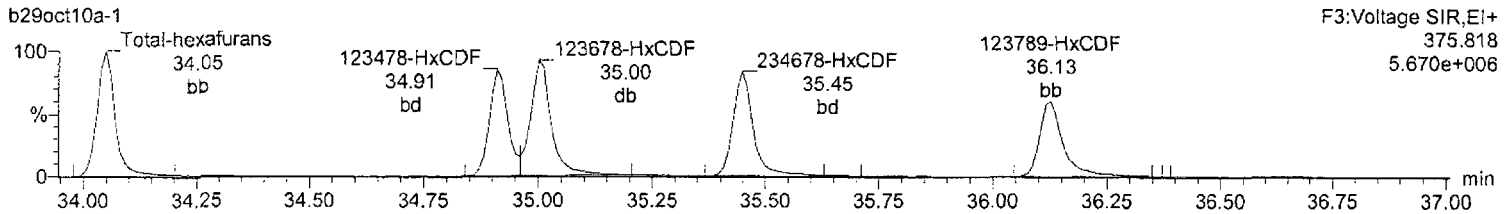
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

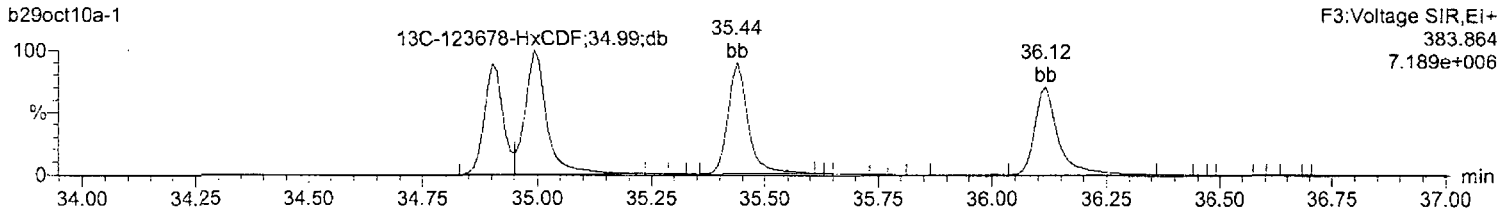
Total-hexafurans



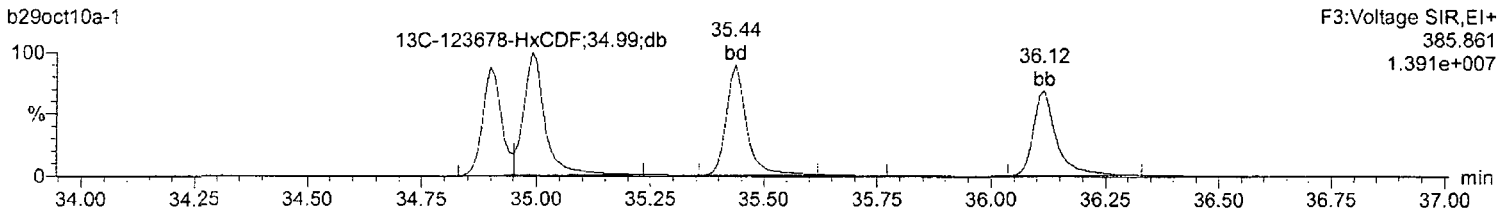
Total-hexafurans



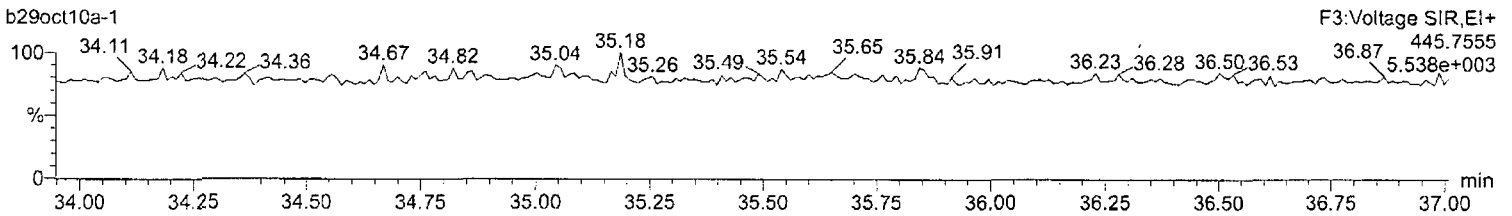
13C-123678-HxCDF



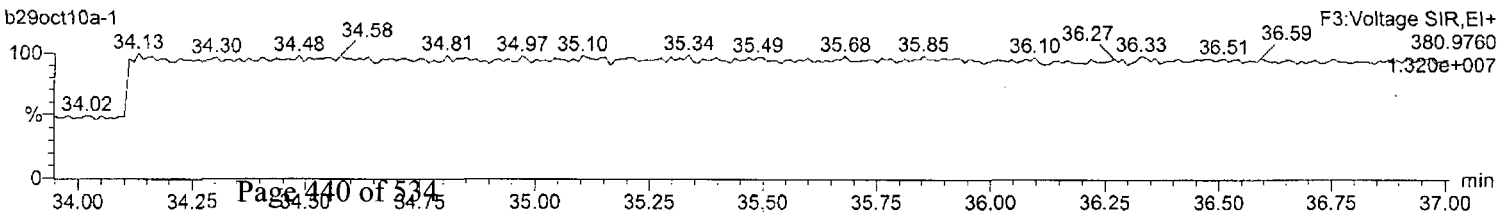
13C-123678-HxCDF



OcDPE



Lock Mass F3



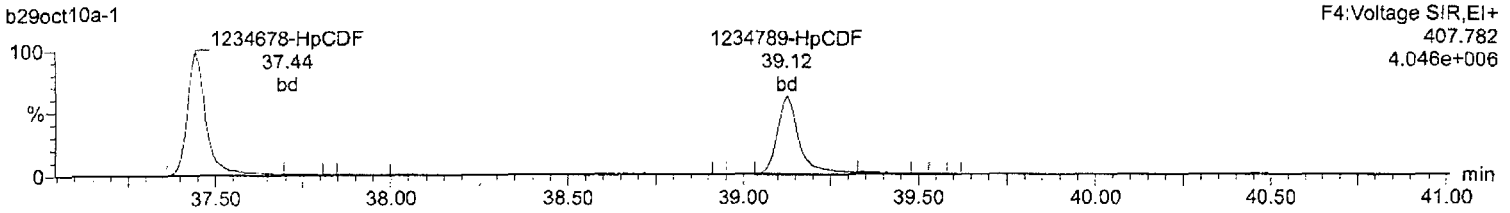
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

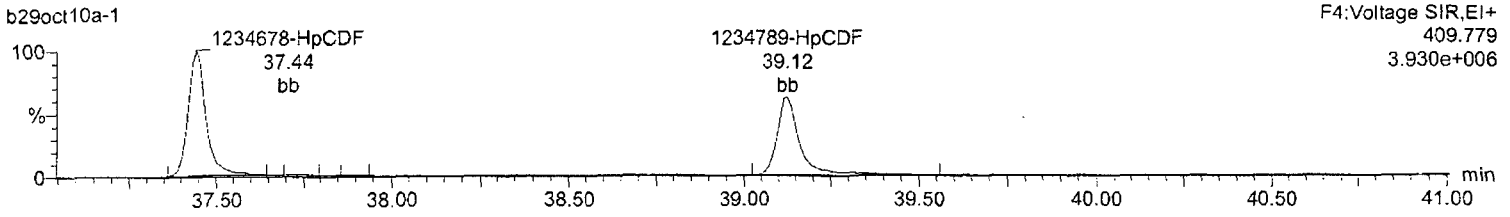
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

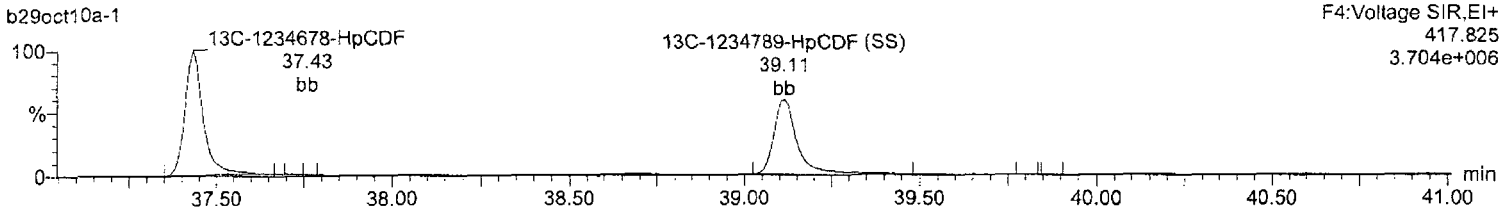
Total-heptafurans



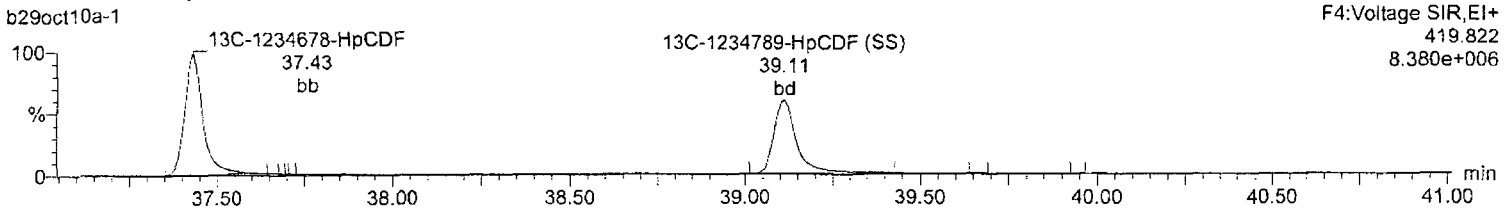
Total-heptafurans



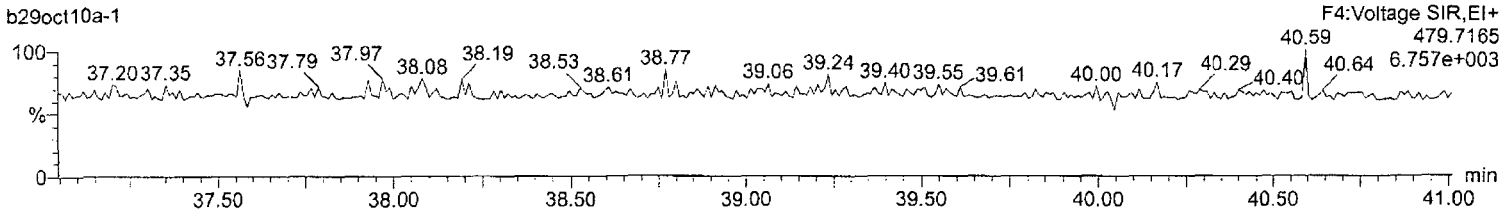
13C-1234678-HpCDF



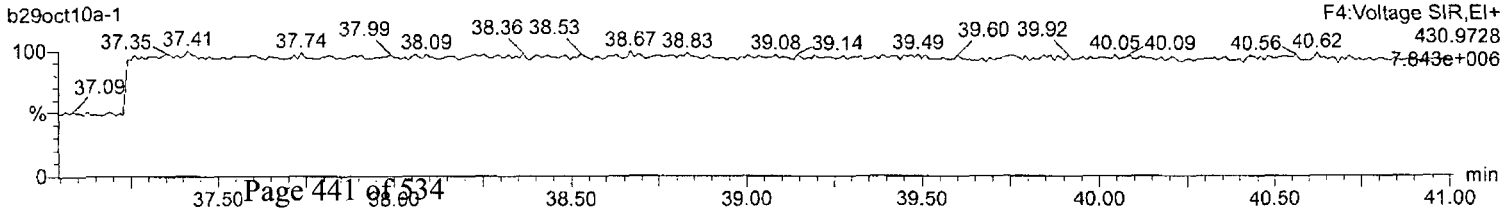
13C-1234678-HpCDF



NoDPE



Lock Mass F4



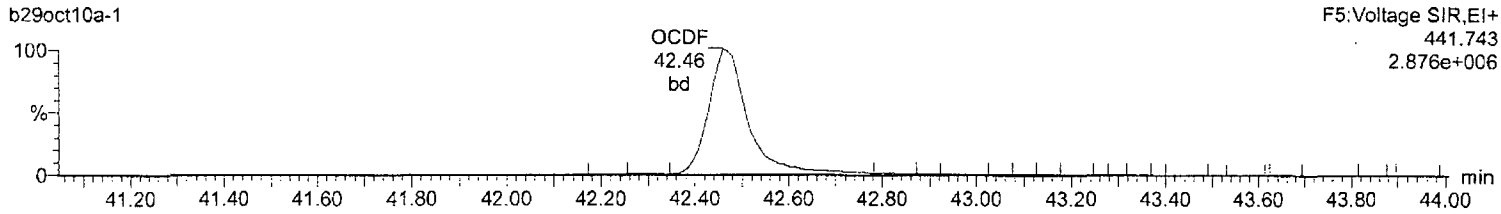
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-1.qld

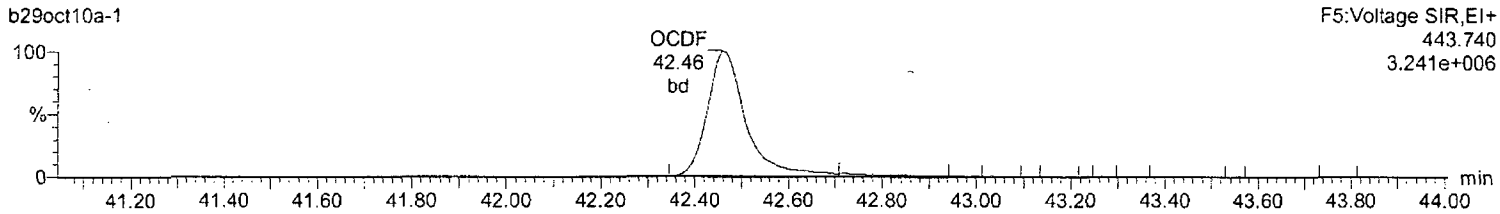
Last Altered: Wednesday, November 03, 2010 11:10:54 Eastern Standard Time
Printed: Wednesday, November 03, 2010 11:19:19 Eastern Standard Time

Name: b29oct10a-1, Date: 29-Oct-2010, Time: 17:33:17, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

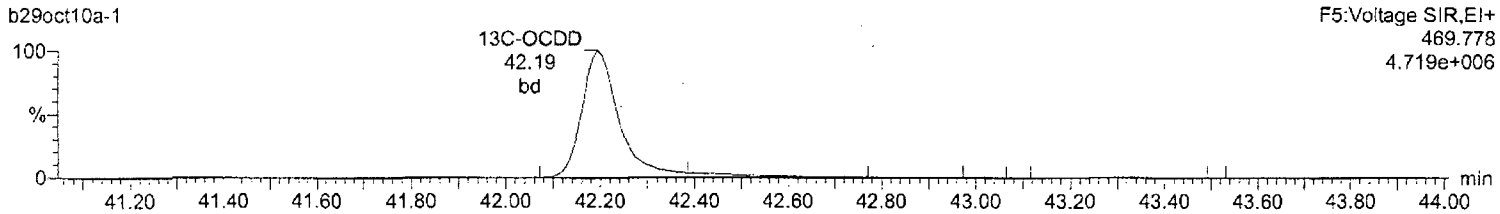
OCDF



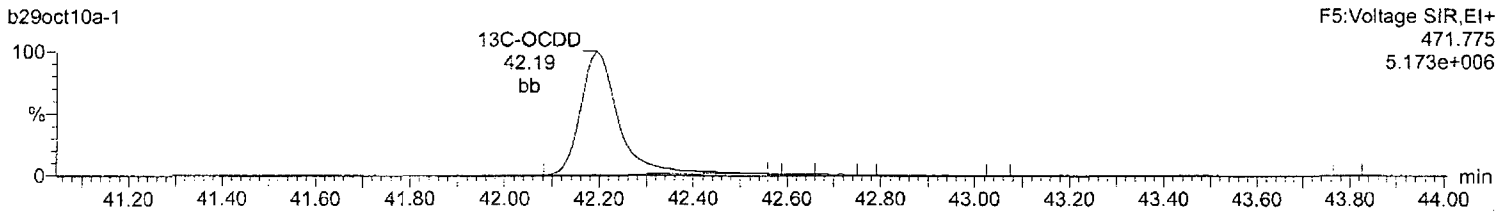
OCDF



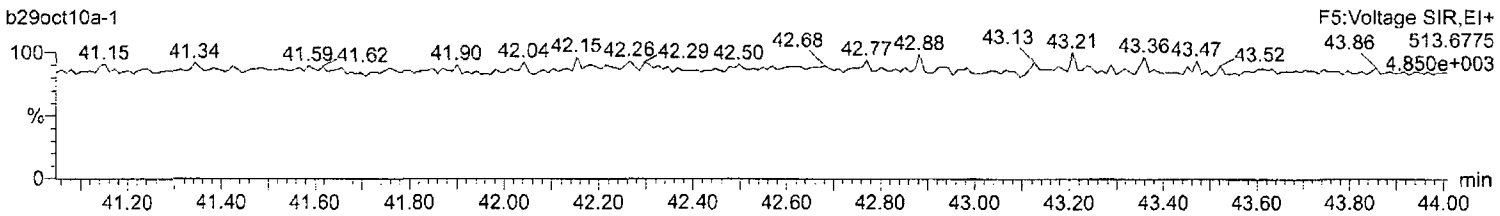
13C-OCDD



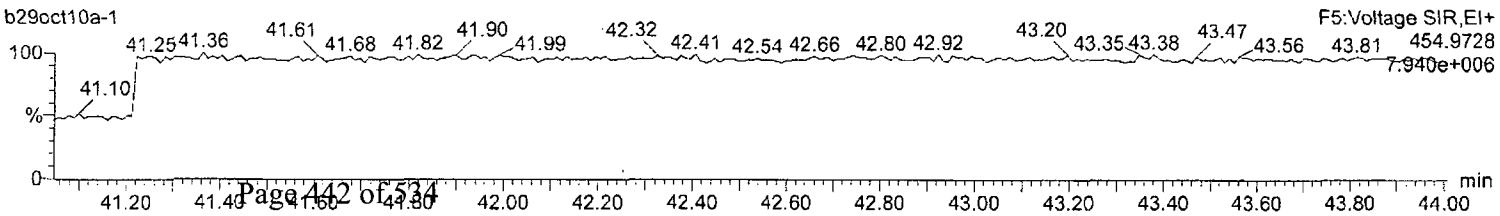
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	5.17e4	6.64e4	1.18e5	29.36	1.001	0.78	NO	11.320	0.0867	1.047	13.2	5.22e5	1604	325.6	7.01e5	1415	495.4	db
2	12378-PeCDD	3.29e5	2.06e5	5.34e5	33.18	1.000	1.60	NO	53.557	0.111	1.062	7.1	7.64e6	5089	1502.1	4.72e6	3683	1282.9	bb
3	123478-HxCDD	2.61e5	2.07e5	4.68e5	35.55	0.998	1.26	NO	57.771	0.194	0.905	15.5	5.34e6	3657	1460.6	4.25e6	6339	670.6	bd
4	123678-HxCDD	2.85e5	2.23e5	5.08e5	35.63	1.000	1.27	NO	53.498	0.165	0.982	7.0	5.39e6	3657	1474.9	4.26e6	6339	672.3	dd
5	123789-HxCDD	2.63e5	2.12e5	4.75e5	35.84	1.006	1.24	NO	54.922	0.181	0.918	9.8	4.76e6	3657	1301.7	3.79e6	6339	598.3	db
6	1234678-HpCDD	1.89e5	1.81e5	3.70e5	38.54	1.000	1.04	NO	50.832	0.188	1.002	1.7	2.80e6	3940	711.0	2.71e6	2676	1014.3	bb
7	OCDD	3.01e5	3.41e5	6.42e5	42.20	1.000	0.88	NO	105.975	0.210	1.040	6.0	3.44e6	2143	1604.1	3.82e6	2578	1483.5	bd
8	2378-TCDF	7.57e4	9.88e4	1.74e5	28.45	1.001	0.77	NO	9.800	0.0727	0.920	-2.0	7.85e5	1569	500.3	1.05e6	2976	351.6	bb
9	12378-PeCDF	5.03e5	3.22e5	8.24e5	32.42	1.000	1.56	NO	52.368	0.0670	0.930	4.7	1.20e7	4820	2480.2	7.49e6	3319	2256.6	dd
10	23478-PeCDF	4.97e5	3.26e5	8.23e5	33.00	1.018	1.52	NO	51.663	0.0662	0.929	3.3	1.13e7	4820	2352.6	7.53e6	3319	2269.5	bb
11	123478-HxCDF	3.66e5	2.95e5	6.61e5	34.90	0.998	1.24	NO	57.312	0.179	0.969	14.6	7.89e6	6863	1149.5	6.33e6	6276	1009.2	bd
12	123678-HxCDF	4.17e5	3.29e5	7.45e5	34.99	1.000	1.27	NO	52.126	0.144	1.093	4.3	7.93e6	6863	1154.9	6.47e6	6276	1030.4	db
13	234678-HxCDF	3.82e5	3.07e5	6.88e5	35.44	1.013	1.24	NO	53.617	0.160	1.009	7.2	7.65e6	6863	1115.0	6.00e6	6276	955.7	bb
14	123789-HxCDF	3.34e5	2.69e5	6.03e5	36.11	1.032	1.24	NO	57.936	0.198	0.884	15.9	5.74e6	6863	836.2	4.53e6	6276	721.2	bd
15	1234678-HpCDF	3.01e5	2.94e5	5.95e5	37.43	1.000	1.02	NO	51.114	0.112	1.290	2.2	5.05e6	3728	1353.5	4.97e6	3448	1442.4	bb
16	1234789-HpCDF	2.34e5	2.27e5	4.60e5	39.11	1.045	1.03	NO	52.005	0.147	0.999	4.0	3.31e6	3728	888.4	3.30e6	3448	956.0	bd
17	OCDF	3.60e5	3.95e5	7.55e5	42.45	1.006	0.91	NO	102.233	0.189	1.223	2.2	4.09e6	2924	1399.1	4.47e6	2262	1977.2	bb
18	13C-2378-TCDD	4.98e5	6.31e5	1.13e6	29.34	1.025	0.79	NO	91.718	0.0964	1.016	-8.3	4.98e6	2570	1937.6	6.44e6	1661	3877.3	bb
19	13C-12378-PeCDD	6.18e5	3.89e5	1.01e6	33.17	1.159	1.59	NO	108.695	0.152	0.905	8.7	1.47e7	2003	7318.3	9.02e6	3009	2997.5	bb
20	13C-123678-HxCDD	5.79e5	4.55e5	1.03e6	35.62	0.994	1.27	NO	98.052	0.113	1.073	-1.9	1.11e7	3858	2870.8	8.75e6	3326	2629.6	dd
21	13C-1234678-HpCDD	3.80e5	3.58e5	7.38e5	38.53	1.075	1.06	NO	101.524	0.136	0.765	1.5	5.51e6	2961	1860.6	5.11e6	2997	1706.4	bd
22	13C-OCDD	5.83e5	6.52e5	1.23e6	42.18	1.177	0.89	NO	194.944	0.168	0.641	-2.5	6.49e6	2750	2361.9	7.35e6	3664	2006.3	bd
23	13C-2378-TCDF	8.38e5	1.06e6	1.90e6	28.42	0.993	0.79	NO	98.981	0.0863	1.707	-1.0	8.82e6	3947	2235.7	1.10e7	1953	5649.1	bb
24	13C-12378-PeCDF	1.09e6	6.86e5	1.77e6	32.41	1.133	1.58	NO	112.740	0.201	1.595	12.7	2.52e7	5282	4762.2	1.59e7	6000	2644.6	bd
25	13C-123678-HxCDF	4.71e5	8.94e5	1.36e6	34.98	0.976	0.53	NO	96.070	0.129	1.416	-3.9	9.01e6	5064	1778.7	1.73e7	5965	2896.4	db
26	13C-1234678-HpCDF	2.87e5	6.35e5	9.22e5	37.42	1.044	0.45	NO	99.417	0.138	0.956	-0.6	4.75e6	3452	1374.9	1.04e7	4276	2429.6	bb
27	13C-1234-TCDD	4.90e5	6.21e5	1.11e6	28.62	0.000	0.79	NO	100.000	0.107	1.000	0.0	5.25e6	2570	2041.7	6.61e6	1661	3979.0	bb
28	13C-123789-HxCDD	5.38e5	4.26e5	9.64e5	35.83	0.000	1.26	NO	100.000	0.124	1.000	0.0	9.72e6	3858	2520.1	7.53e6	3326	2265.2	db
29	37Cl-2378-TCDD (SS)	1.25e5		1.25e5	29.36	1.001			10.879	0.0330	1.111	8.8	1.27e6	1270	1002.3				bb
30	13C-23478-PeCDF (SS)	1.05e6	6.59e5	1.71e6	32.99	1.018	1.59	NO	101.612	0.0871	0.963	1.6	2.45e7	5282	4642.2	1.51e7	6000	2517.6	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	4.06e5	7.79e5	1.18e6	34.89	0.997	0.52	NO	113.303	0.165	0.868	13.3	8.60e6	5064	1697.6	1.66e7	5965	2778.5	bd
13C-123478-HxCDD (SS)	5.10e5	3.99e5	9.08e5	35.55	0.998	1.28	NO	112.490	0.140	0.879	12.5	1.02e7	3858	2634.5	7.81e6	3326	2348.1	bd
13C-1234789-HpCDF (SS)	2.24e5	4.93e5	7.18e5	39.09	1.045	0.46	NO	99.932	0.195	0.778	-0.1	3.10e6	3452	897.7	6.98e6	4276	1631.6	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

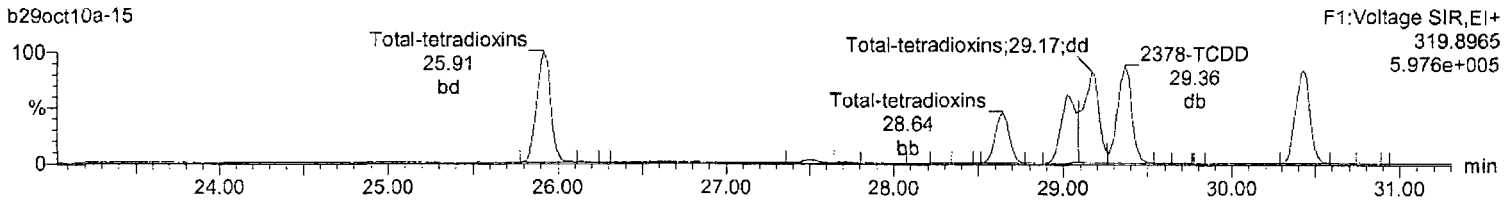
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

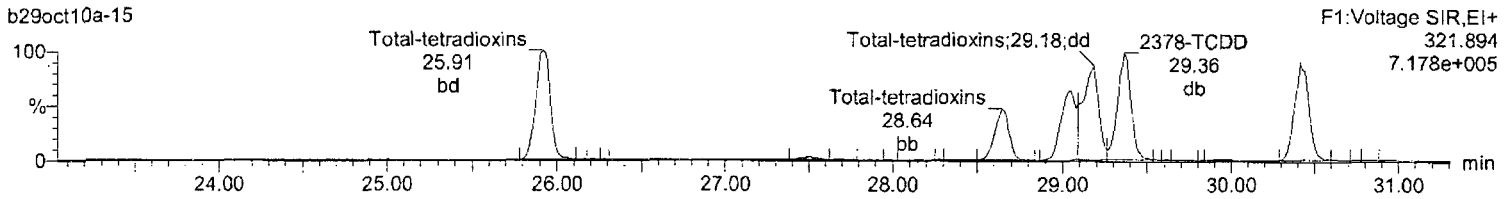
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_101810.mdb 19 Oct 2010 08:35:07
Calibration: C:\MassLynx\Default.pro\Curvedb\old curves\8290-b22oct10a.cdb 25 Oct 2010 09:24:23

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

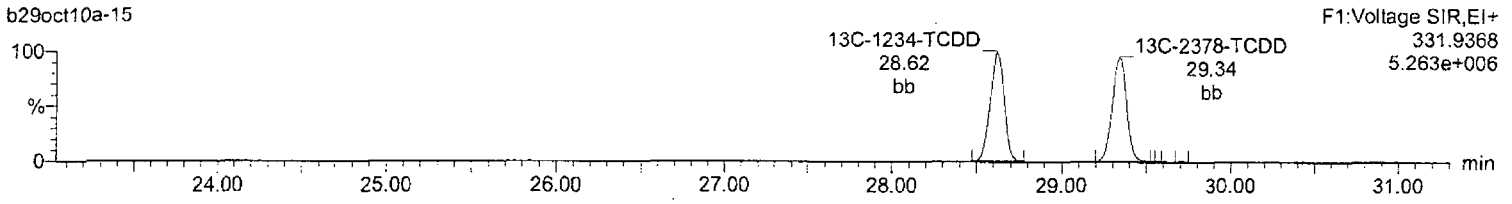
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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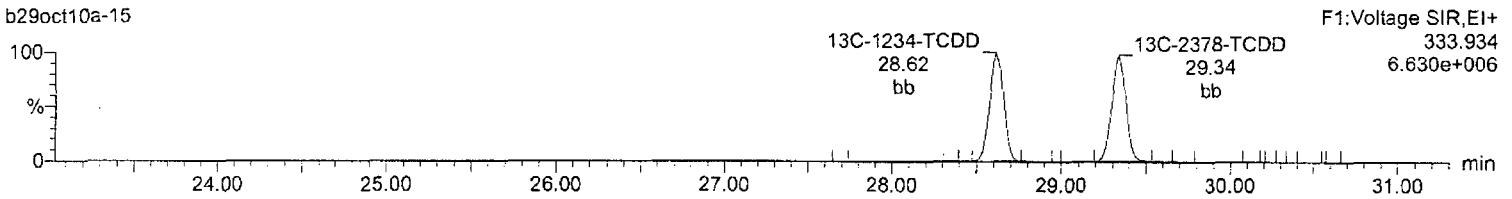
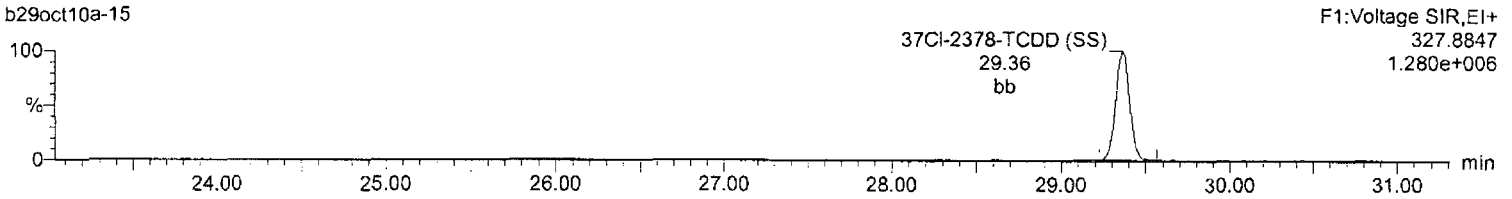
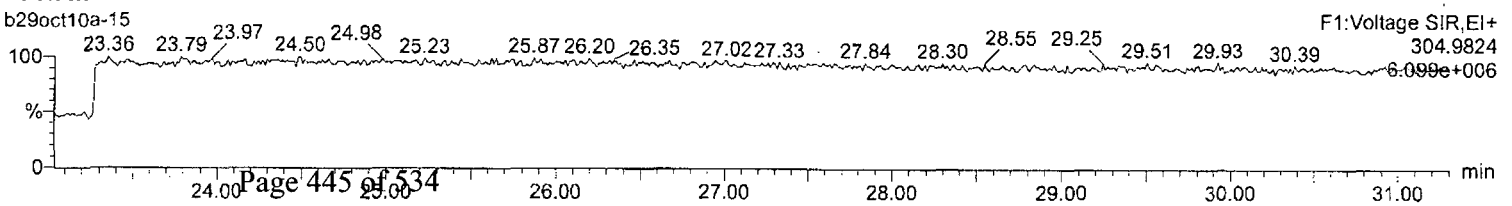


37Cl-2378-TCDD (SS)



Lock Mass F1



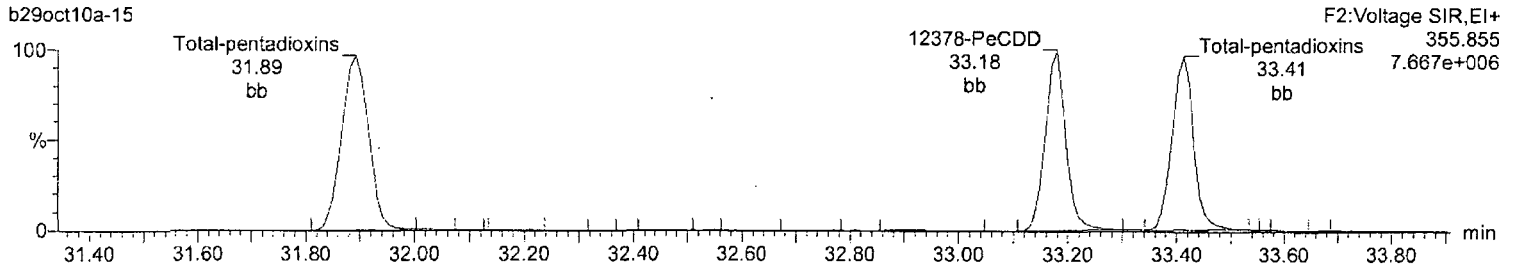
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

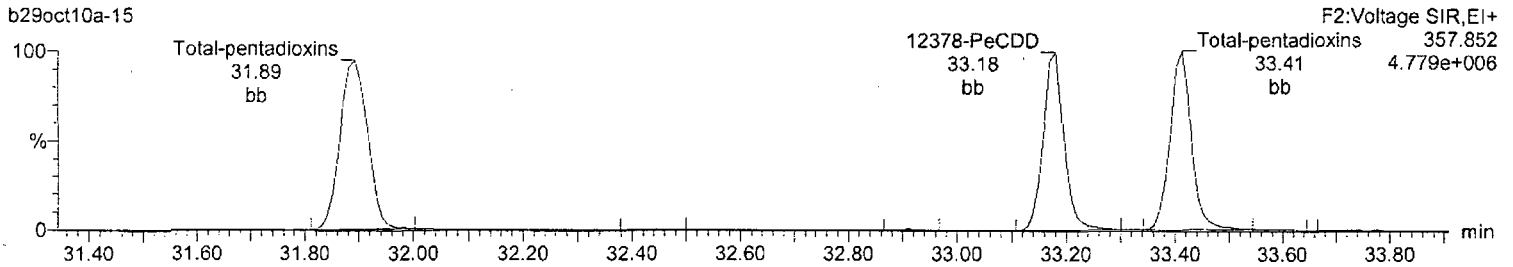
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

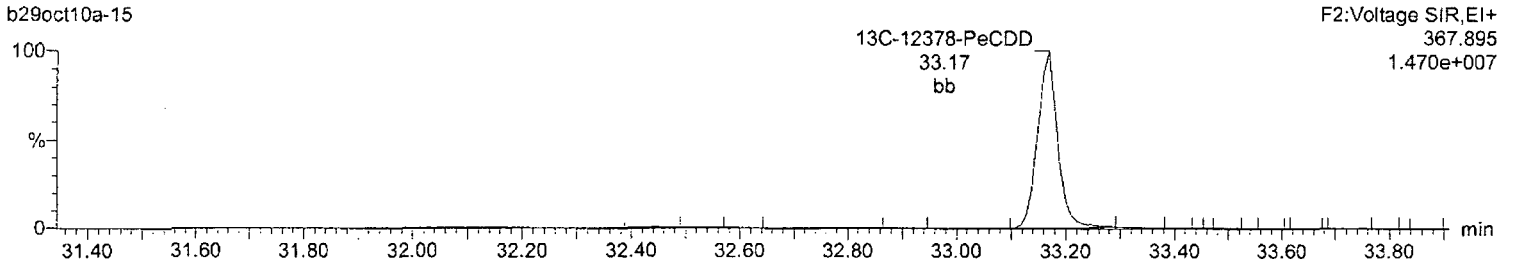
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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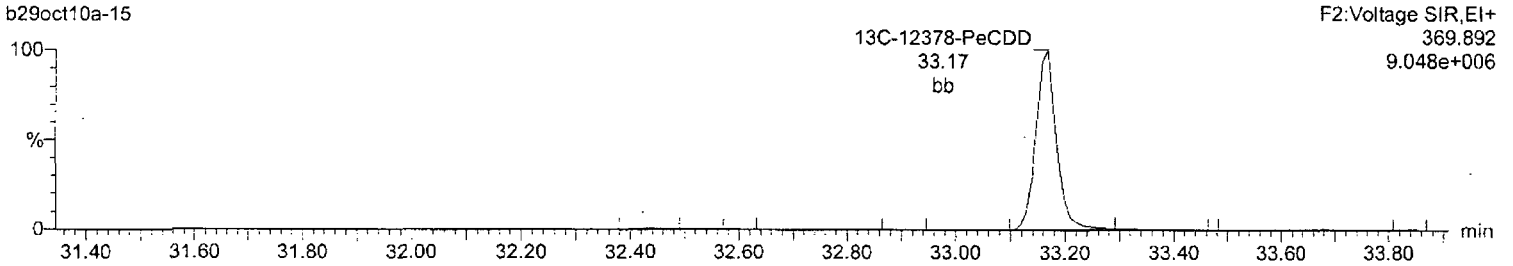
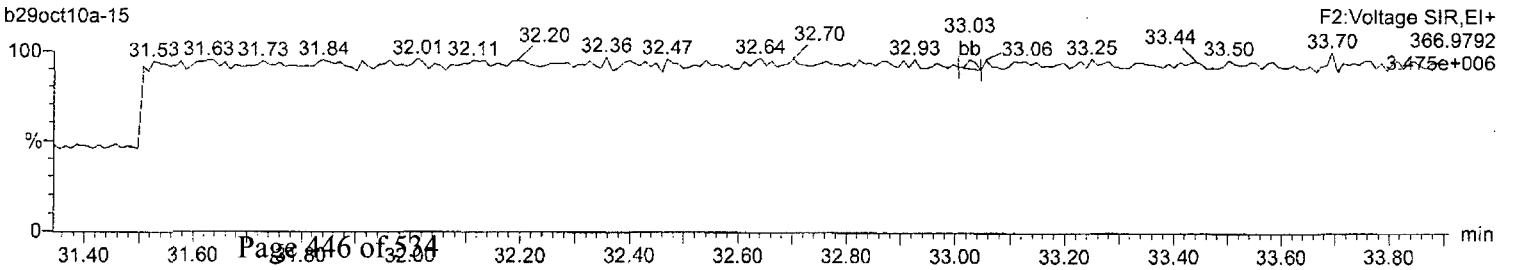


Lock Mass F2



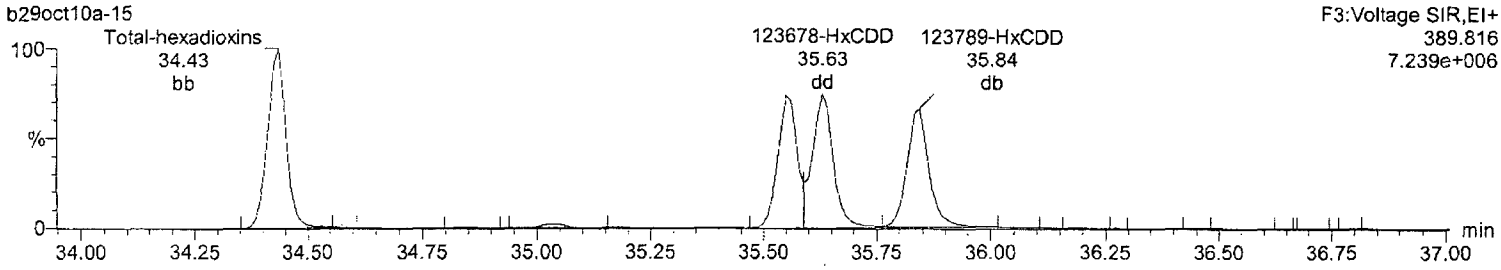
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

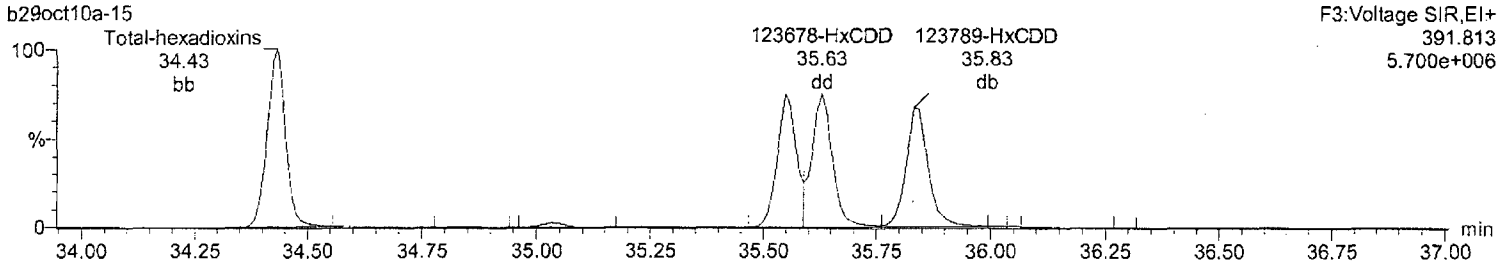
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

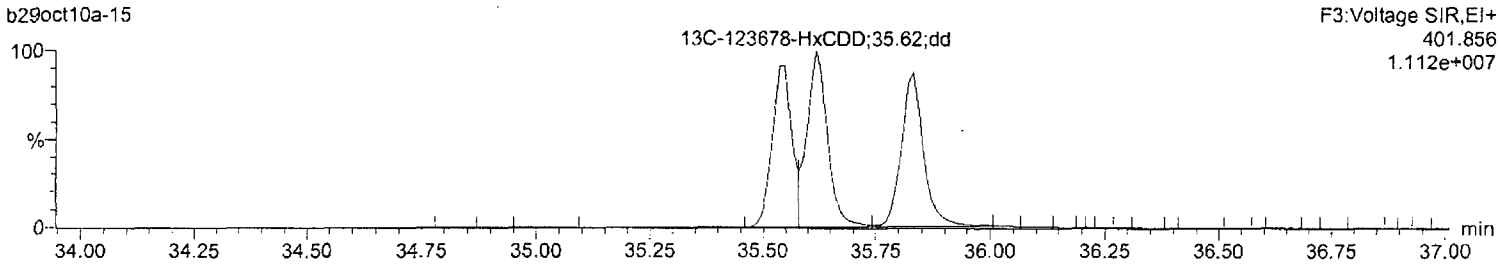
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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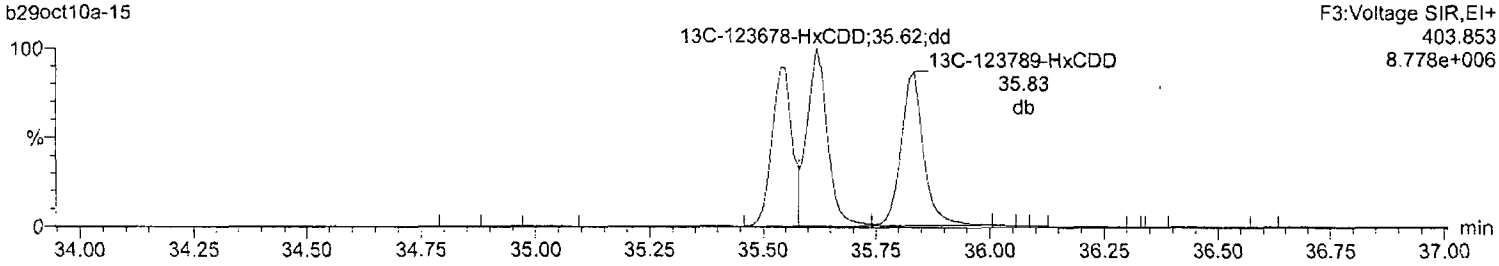
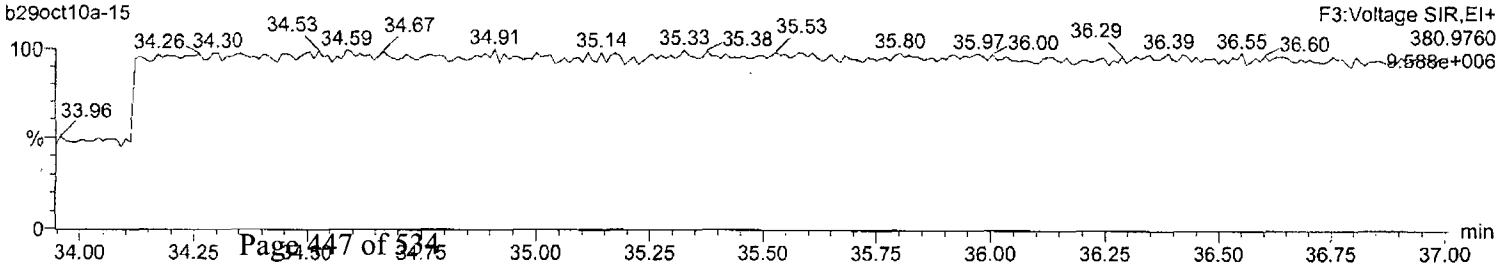


Lock Mass F3



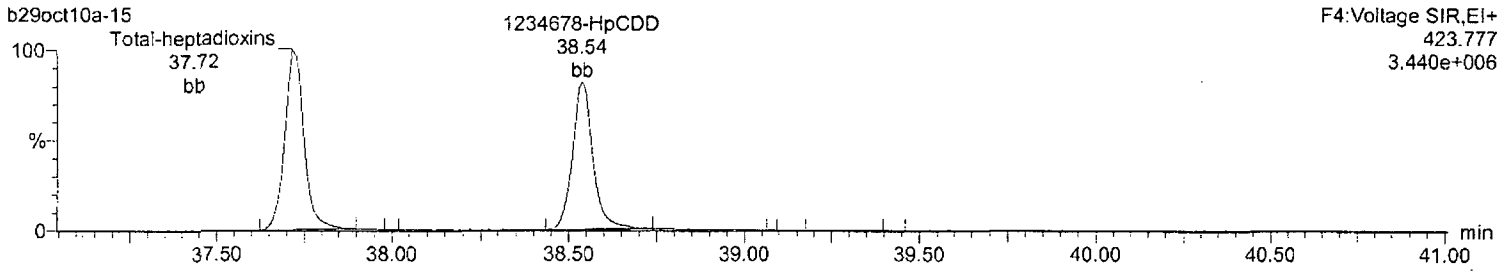
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

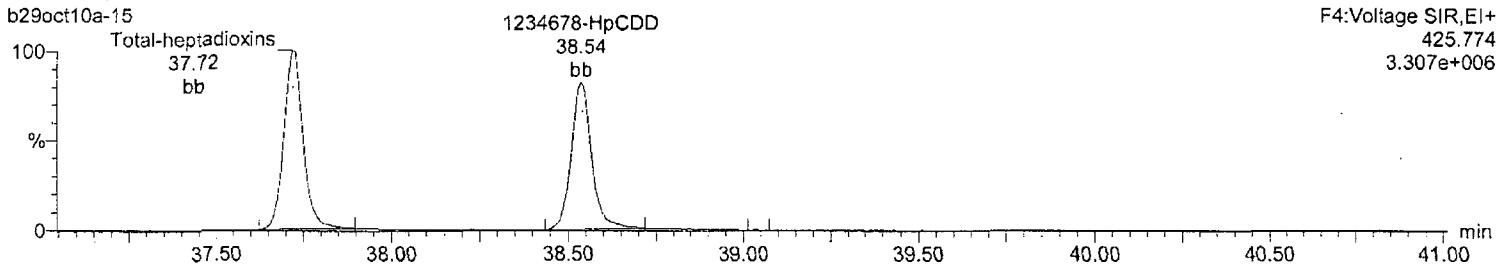
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

Total-heptadioxins



Total-heptadioxins



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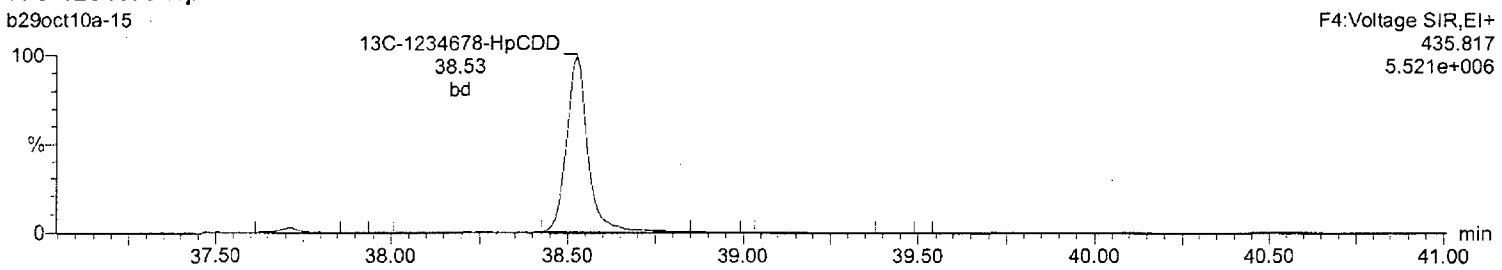

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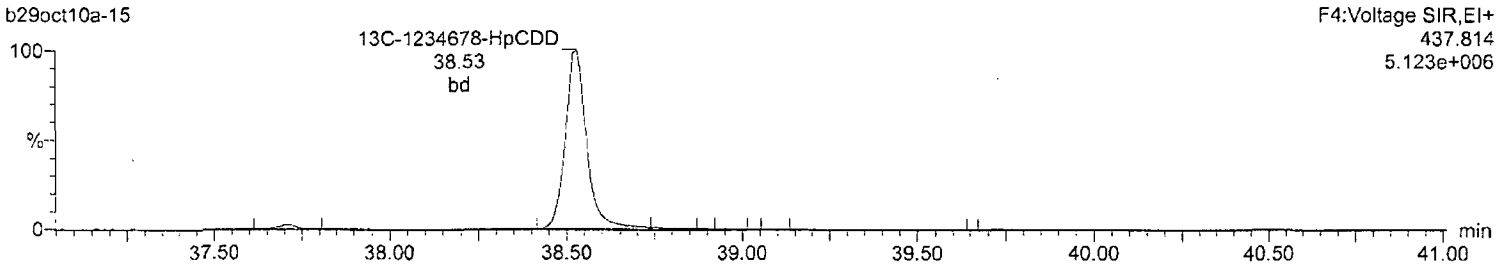
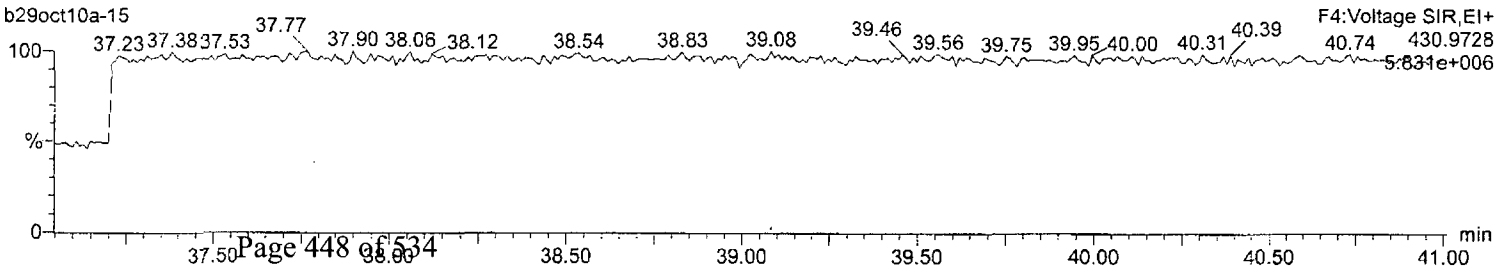


Lock Mass F4



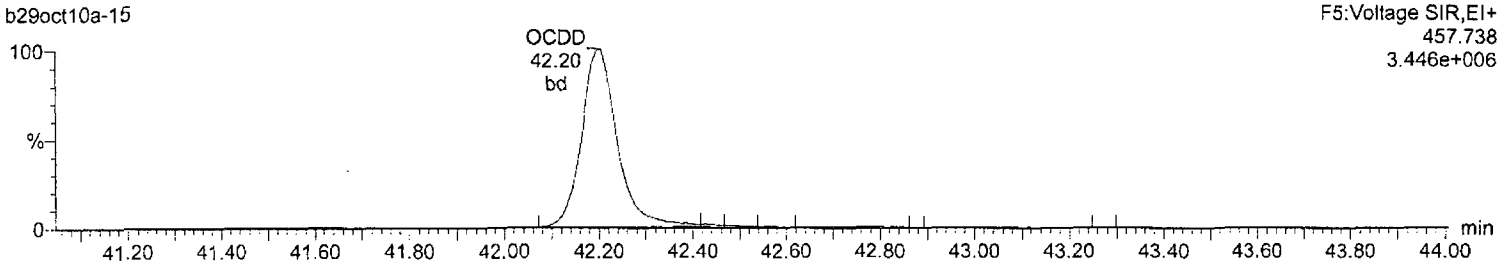
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

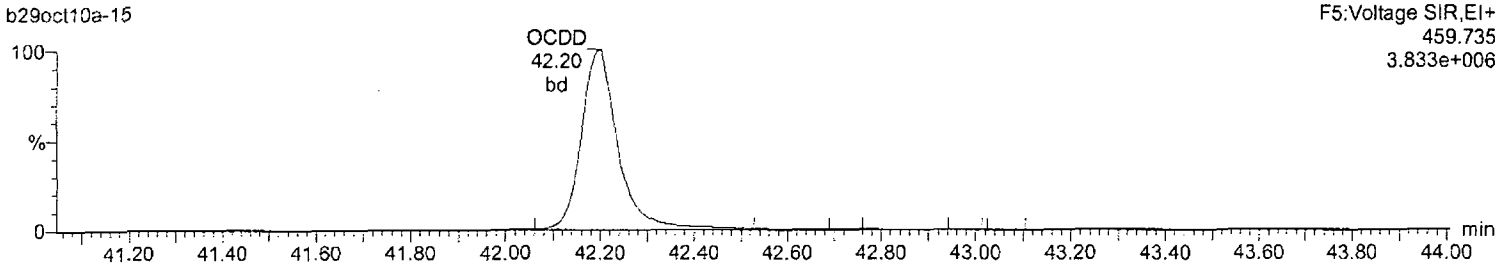
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

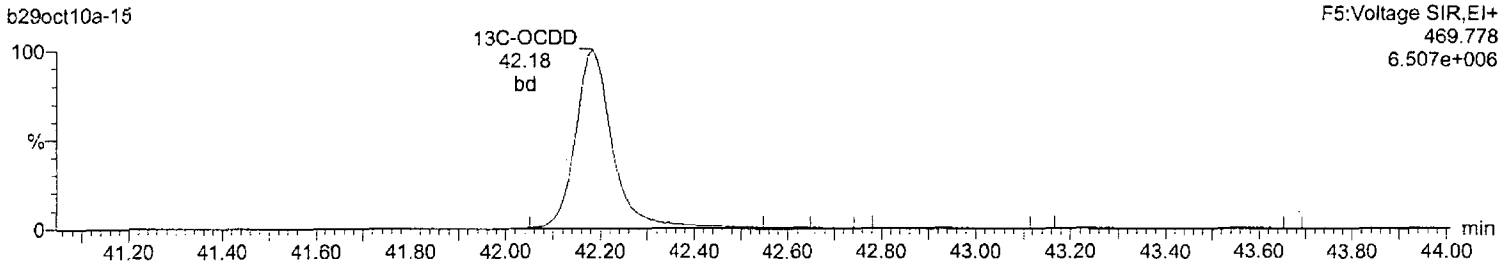
OCDD



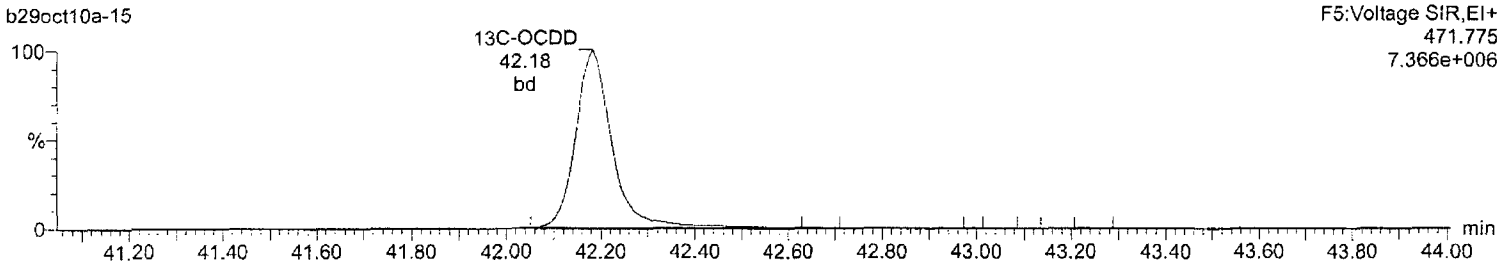
OCDD



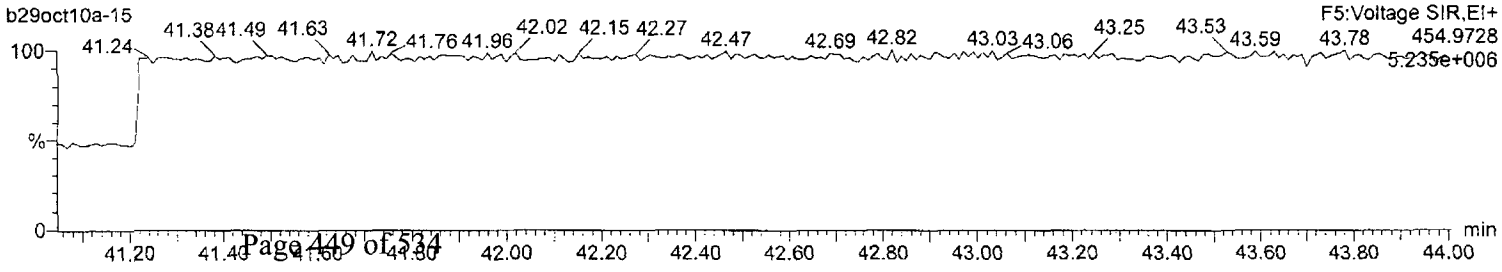
13C-OCDD



13C-OCDD



Lock Mass F5



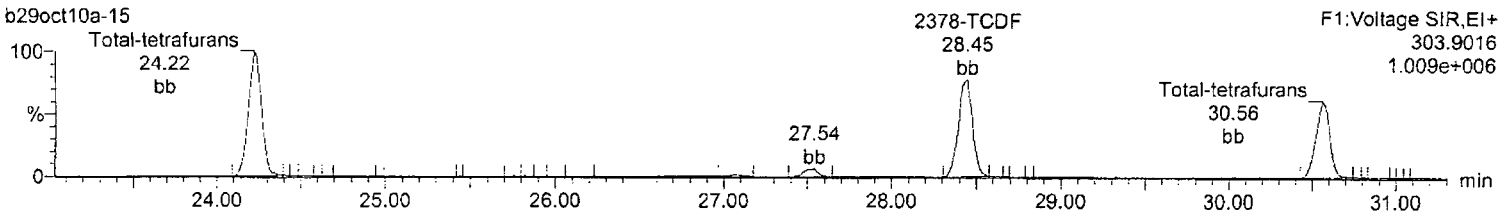
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

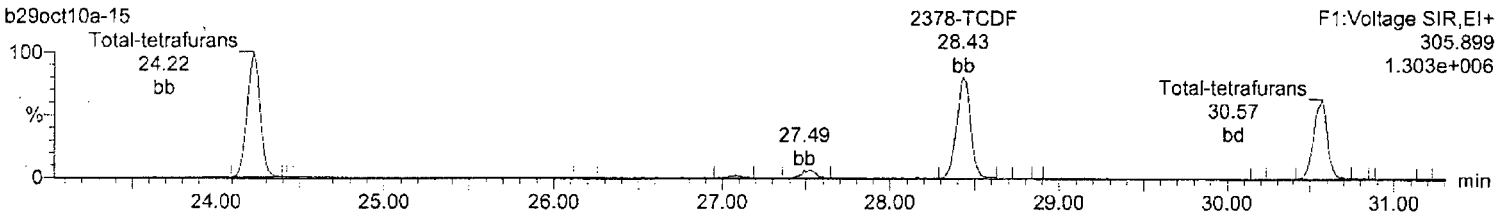
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

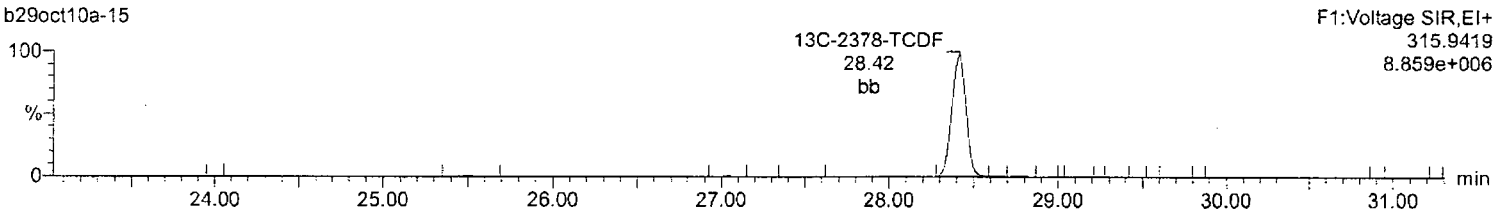
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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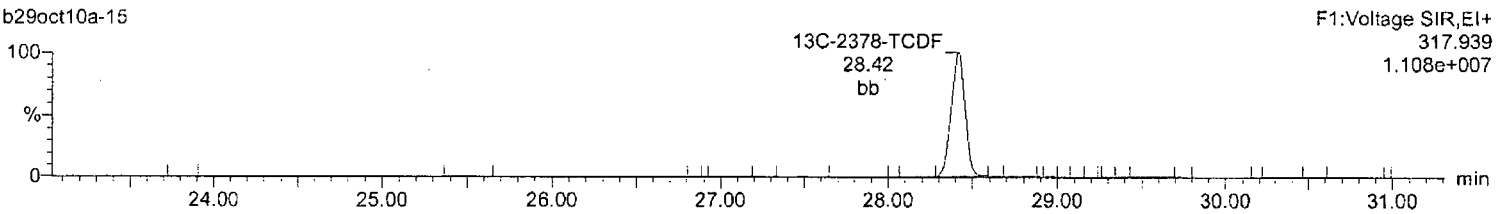
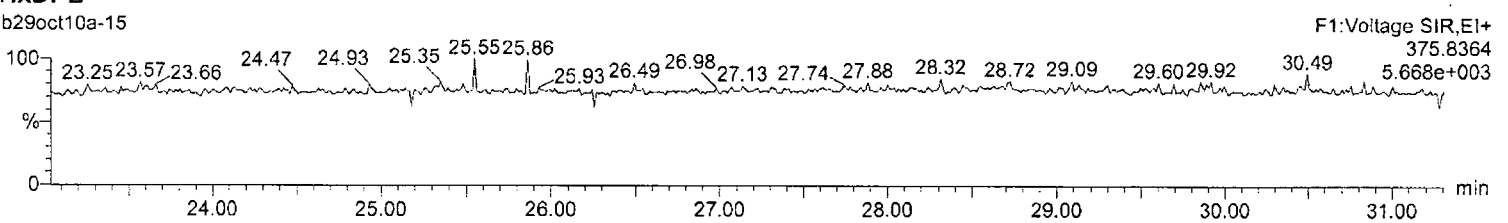
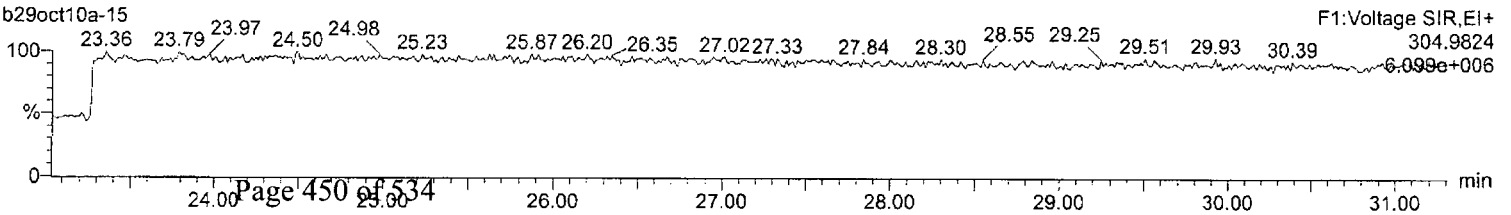


HxDPE



Lock Mass F1



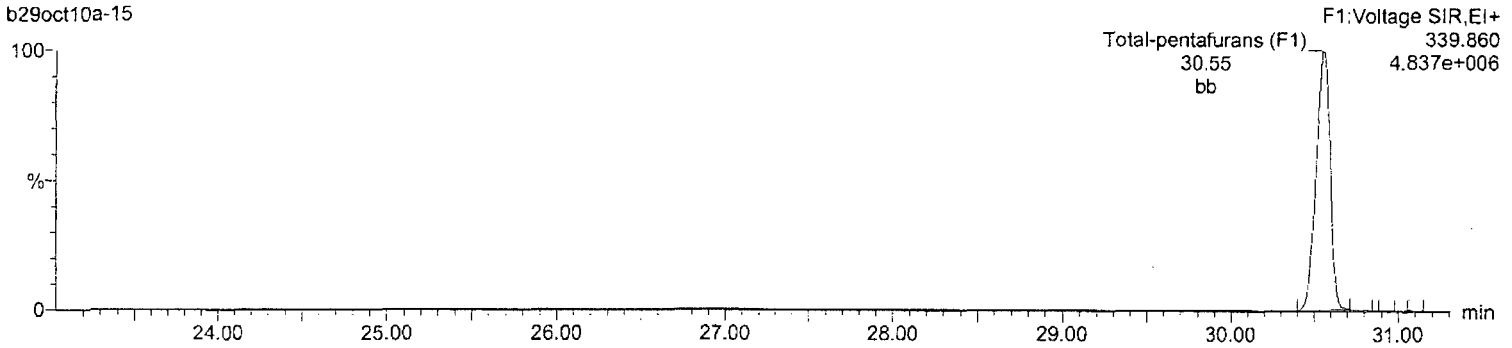
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

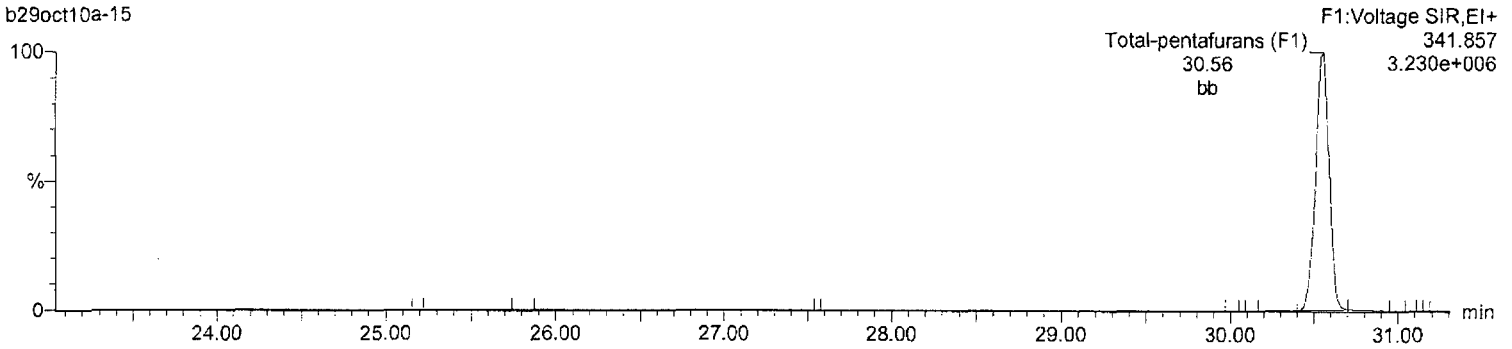
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

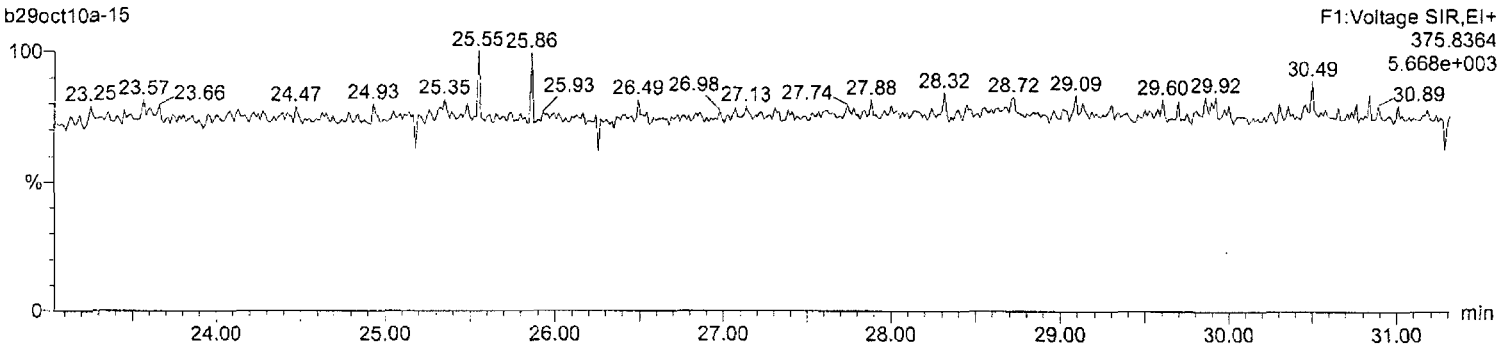
Total-pentafurans (F1)



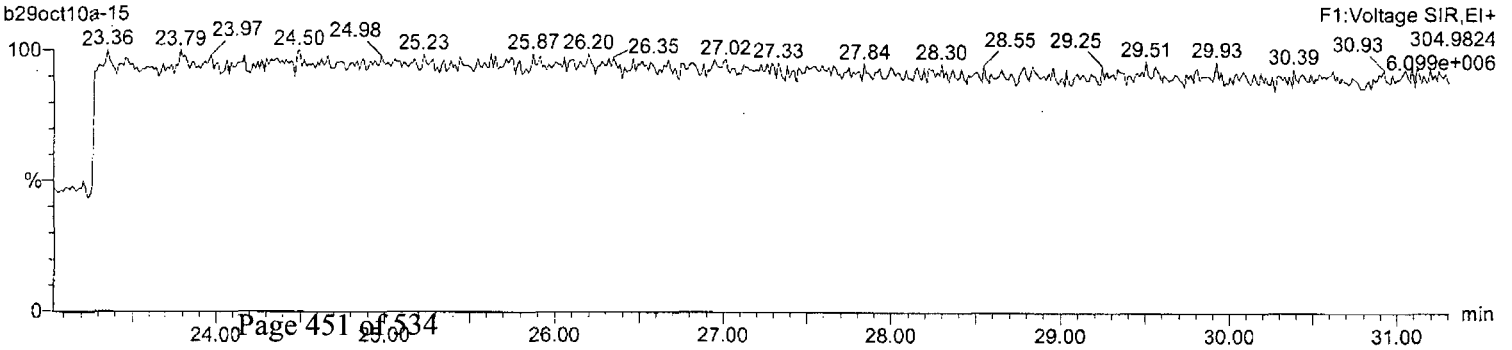
Total-pentafurans (F1)



HxDPE



Lock Mass F1



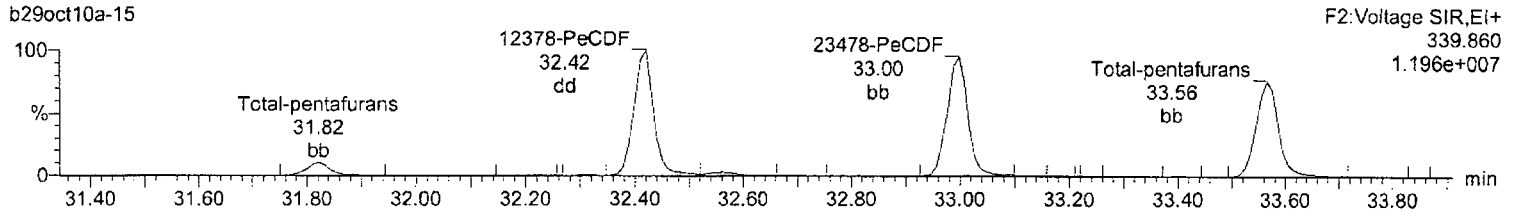
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

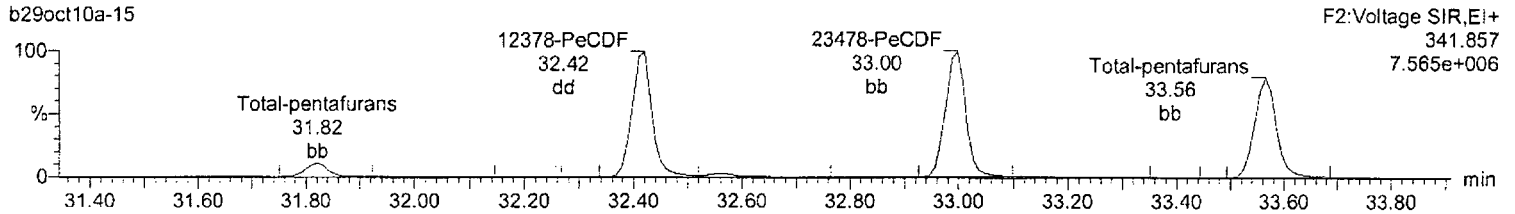
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

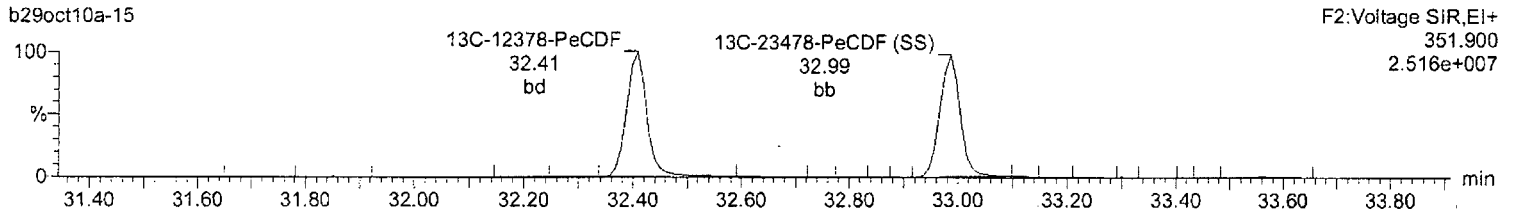
Total-pentafurans



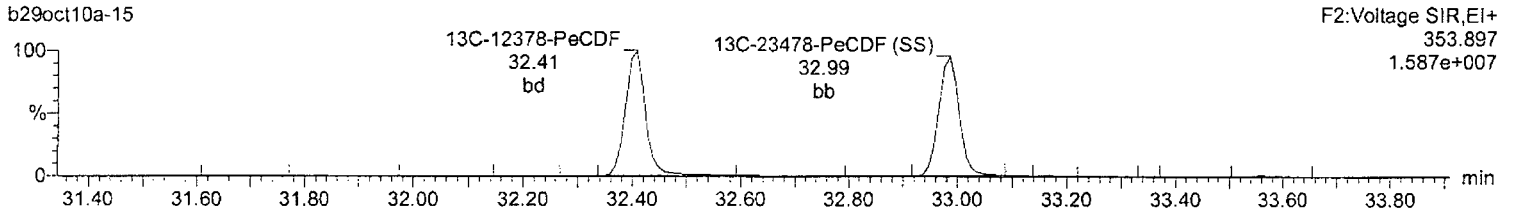
Total-pentafurans



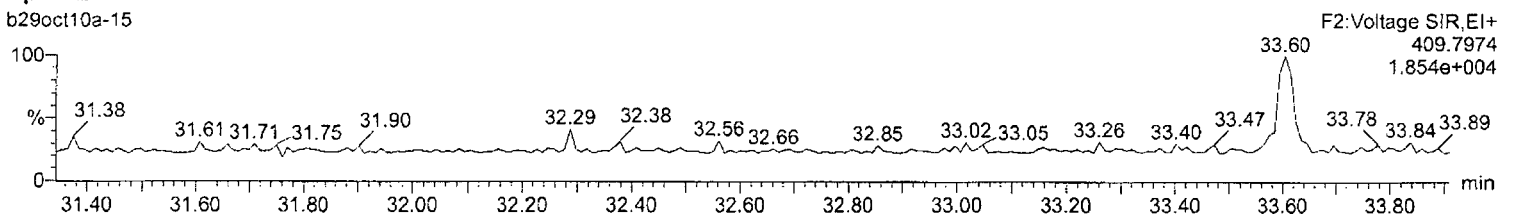
13C-12378-PeCDF



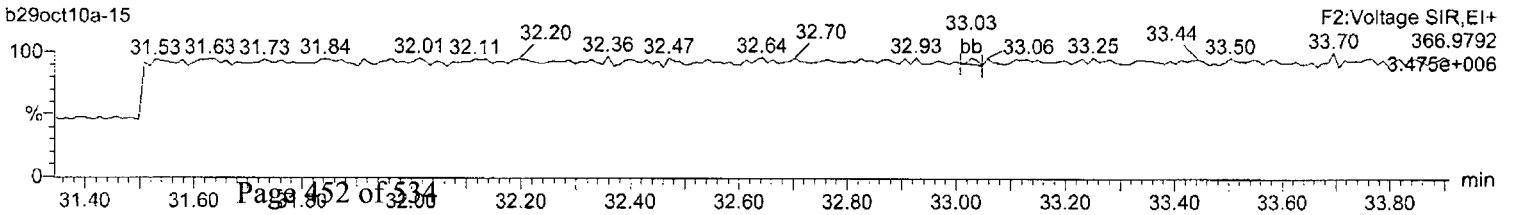
13C-12378-PeCDF



HpDPE



Lock Mass F2



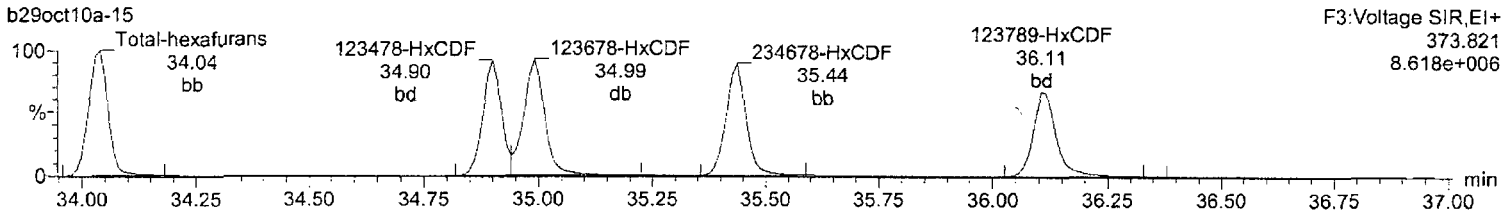
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

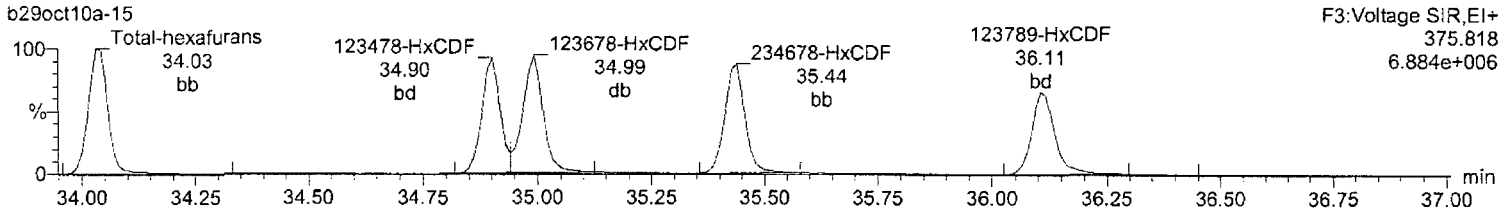
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

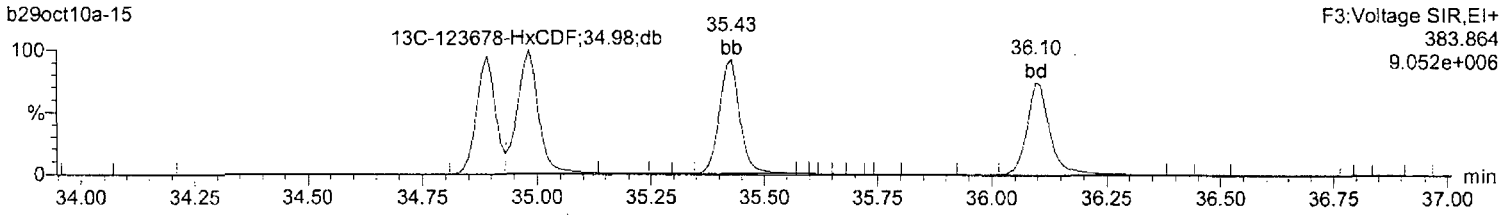
Total-hexafurans



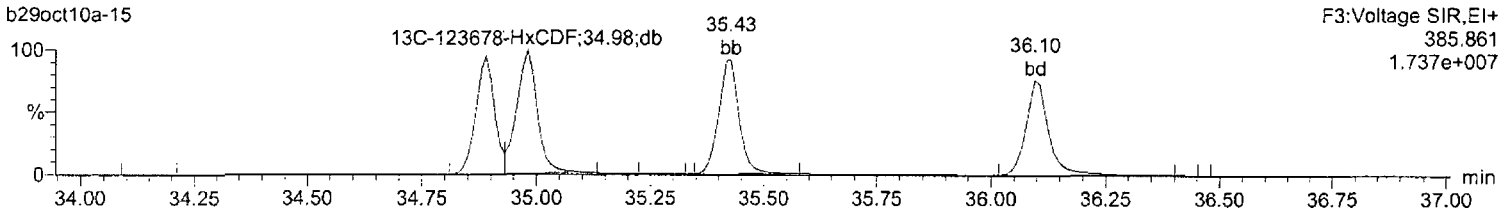
Total-hexafurans



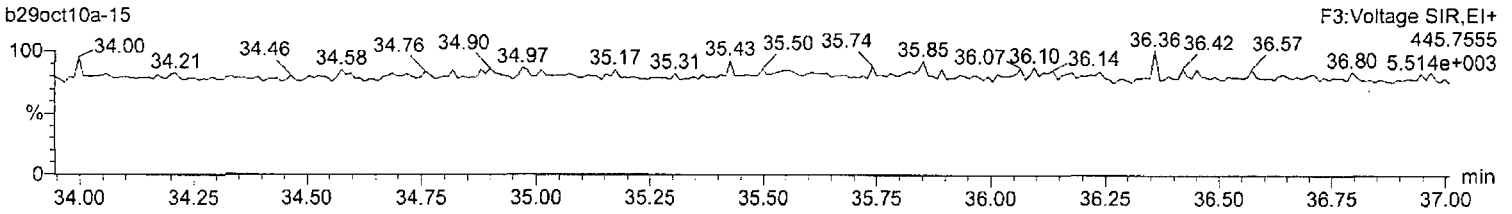
13C-123678-HxCDF



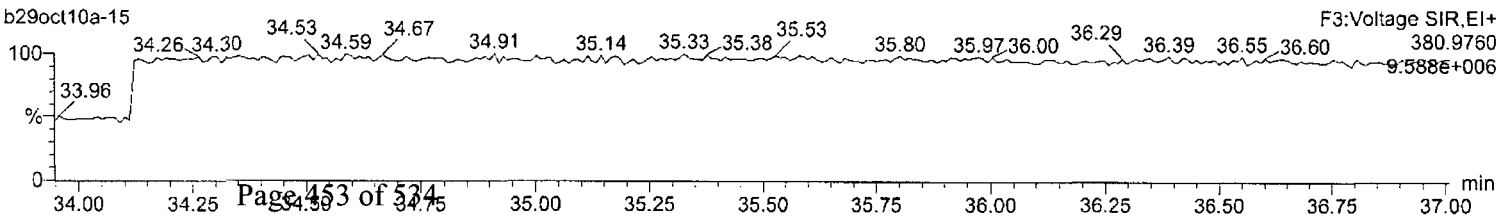
13C-123678-HxCDF



OcDPE



Lock Mass F3



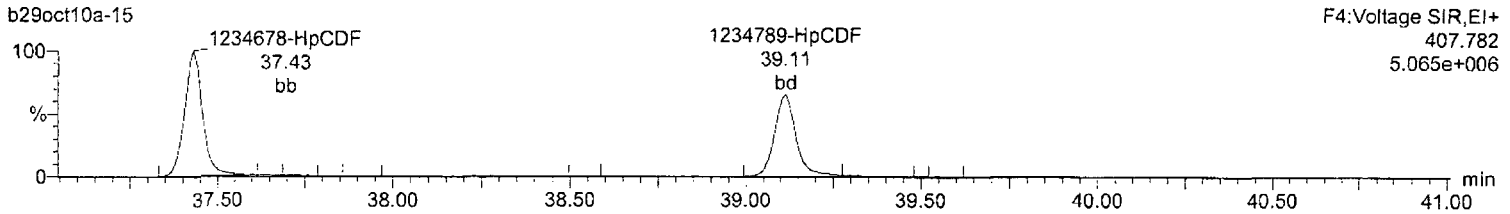
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

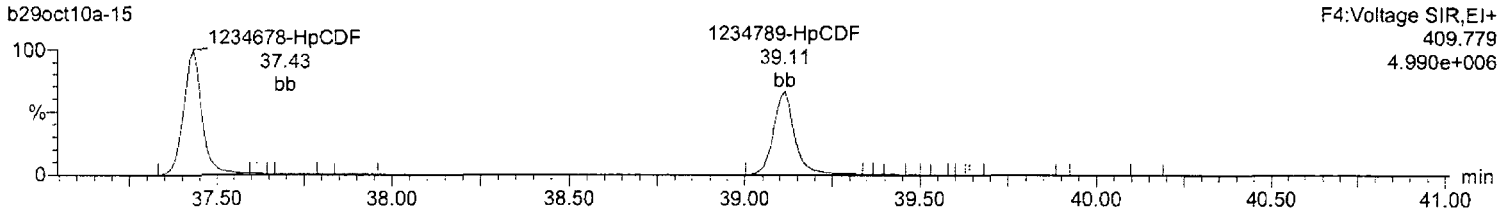
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

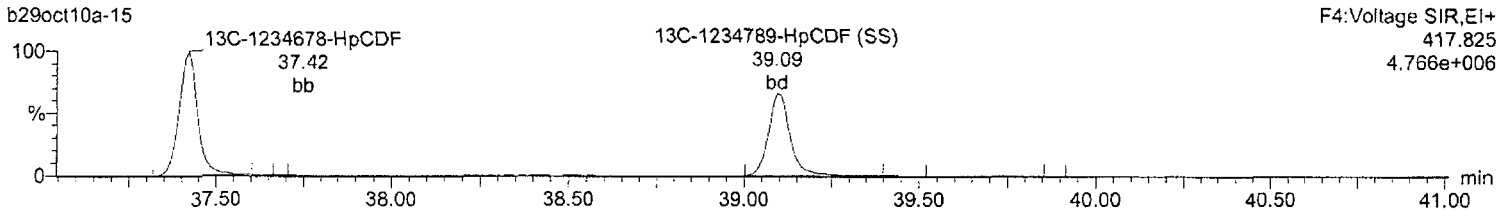
Total-heptafurans



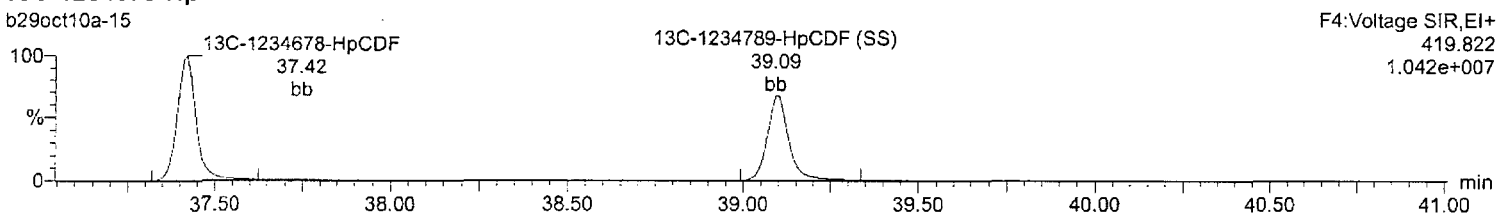
Total-heptafurans



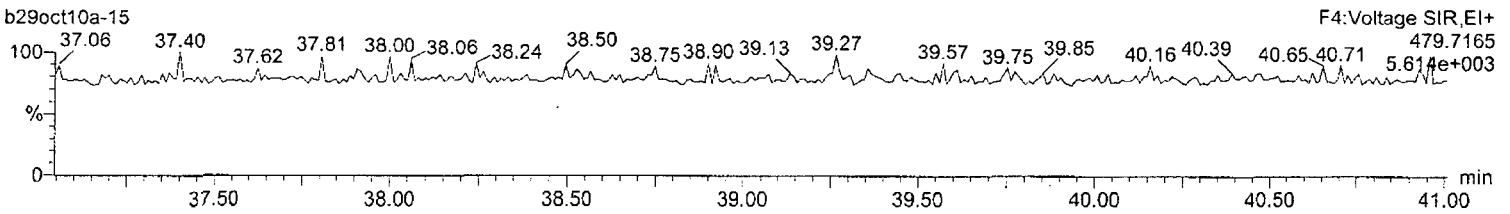
13C-1234678-HpCDF



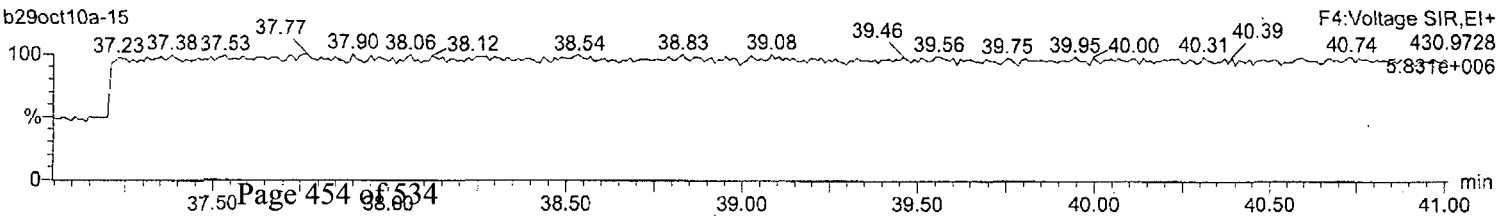
13C-1234678-HpCDF



NoDPE



Lock Mass F4



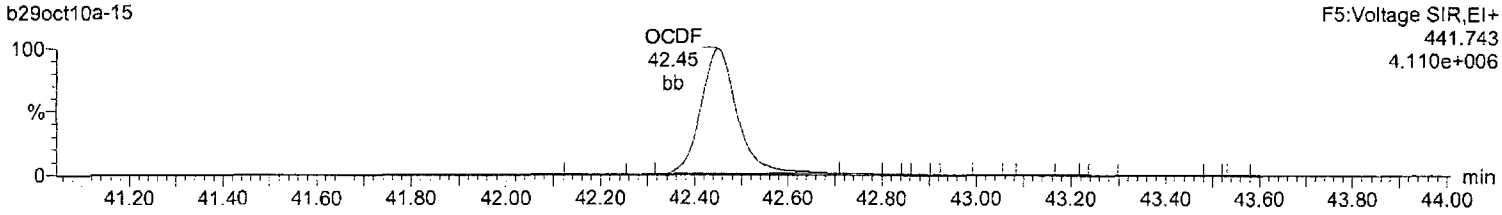
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b29oct10a-15.qld

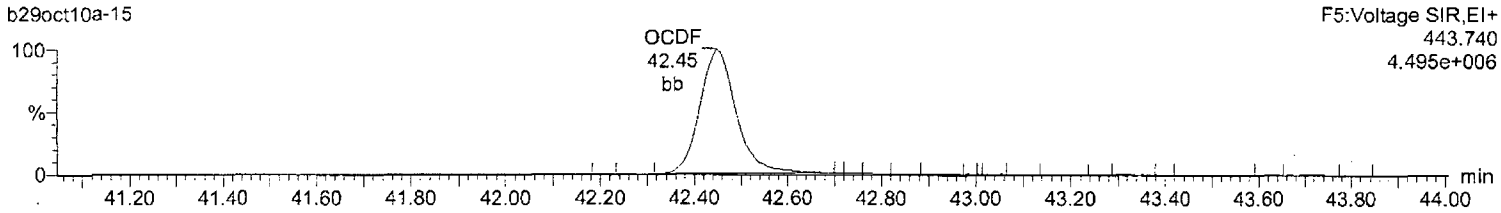
Last Altered: Wednesday, November 03, 2010 12:04:04 Eastern Standard Time
Printed: Wednesday, November 03, 2010 12:05:23 Eastern Standard Time

Name: b29oct10a-15, Date: 30-Oct-2010, Time: 04:16:30, ID: CS3WT UD100713-01.2, Description: , Job: b29oct10a, Task: HRP763_1, User: MJC

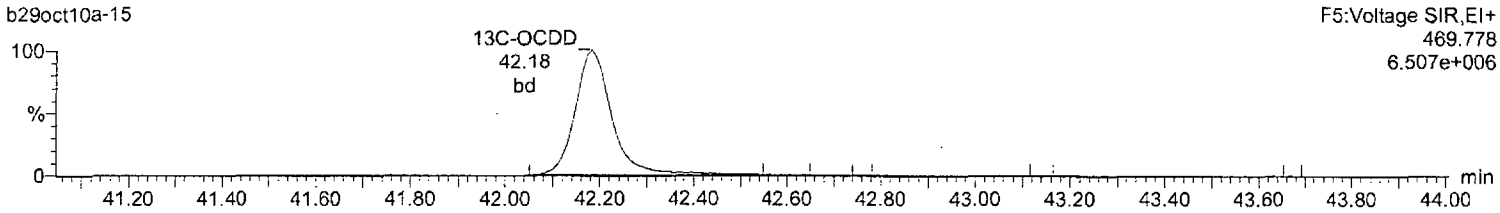
OCDF



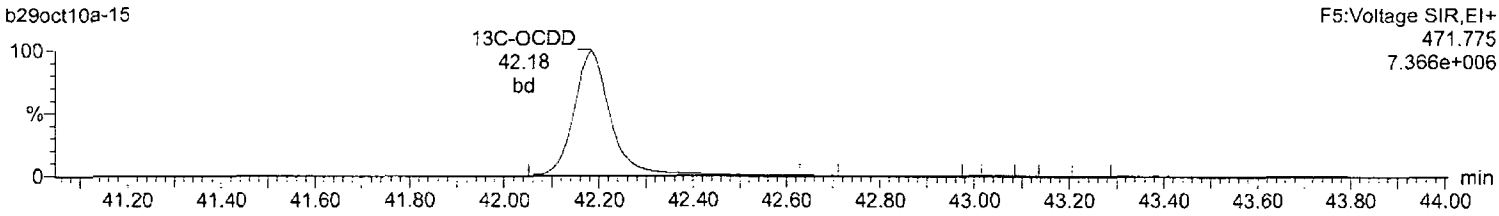
OCDF



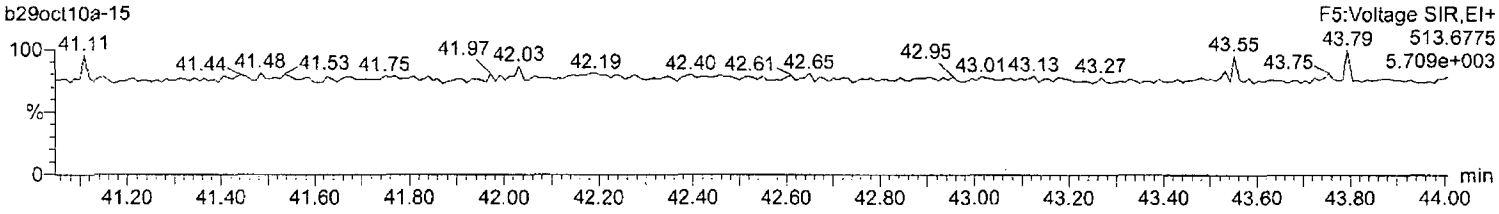
13C-OCDD



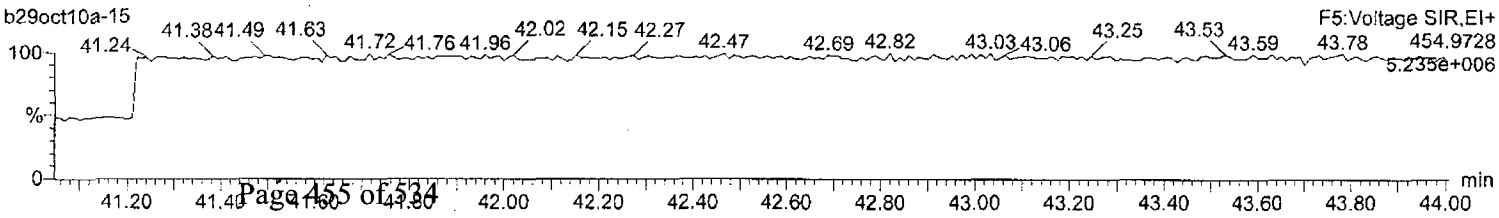
13C-OCDD



DeDPE



Lock Mass F5



Runlog Information

	Name	Instrument	Run Date	Procedure	Analyst	Batch ID	Sample Info	Injection Volume
•	b03nov10a-1	HRP763_1	03-NOV-2010 08:32	b03nov10a	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b03nov10a-2	HRP763_1	03-NOV-2010 09:19	HMS8290_1S	Matt Cash	17293	12002069-1 LCS	1 uL
	12002092-1 LCS 17294							
•	b03nov10a-3	HRP763_1	03-NOV-2010 10:08	HMS8290_1S	Matt Cash	17293	12002070-1 LCSD	1 uL
	12002093-1 LCSD 17294							
•	b03nov10a-4	HRP763_1	03-NOV-2010 10:56	HMS8290_1S	Matt Cash	17293	12002071-1 MB	1 uL
	12002094-1 MB 17294							
•	b03nov10a-5	HRP763_1	03-NOV-2010 11:45	HMS8290_1S	Matt Cash	17293	1755001-1	1 uL
•	b03nov10a-6	HRP763_1	03-NOV-2010 12:33	HMS8290_1S	Matt Cash	17293	1756001-1	1 uL
•	b03nov10a-7	HRP763_1	03-NOV-2010 13:22	HMS8290_1S	Matt Cash	17293	12002072-1 MS	1 uL
•	b03nov10a-8	HRP763_1	03-NOV-2010 14:10	HMS8290_1S	Matt Cash	17293	12002073-1 MSD	1 uL
•	b03nov10a-9	HRP763_1	03-NOV-2010 14:58	b03nov10a	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b03nov10a_2-1	HRP763_1	03-NOV-2010 15:57	HMS1613_1S	Matt Cash	17393	12002083-1 LCS	1 uL
•	b03nov10a_2-2	HRP763_1	03-NOV-2010 16:45	HMS1613_1S	Matt Cash	17393	12002084-1 LCSD	1 uL
•	b03nov10a_2-3	HRP763_1	03-NOV-2010 17:33	HMS1613_1S	Matt Cash	17393	12002085-1 MB	1 uL
•	b03nov10a_2-4	HRP763_1	03-NOV-2010 18:22	HMS1613_1S	Matt Cash	17393	1763001-1	1 uL
•	b03nov10a_2-5	HRP763_1	03-NOV-2010 19:10	HMS1613_1S	Matt Cash	17393	12002086-1 MS	1 uL
•	b03nov10a_2-6	HRP763_1	03-NOV-2010 19:58	HMS1613_1S	Matt Cash	17393	12002087-1 MSD	1 uL
•	b03nov10a_2-7	HRP763_1	03-NOV-2010 20:47	HMS1613_1S	Matt Cash	17393	1763002-1	1 uL
•	b03nov10a_2-8	HRP763_1	03-NOV-2010 21:35	HMS1613_1S	Matt Cash	17393	1763003-1	1 uL

HMB 03Nov10

•	b03nov10a_2-9	HRP763_1	03-NOV-2010 22:24	HMS1613_1S	Matt Cash	17393	1763004-1	1 uL
•	b03nov10a_2-10	HRP763_1	03-NOV-2010 23:12	HMS1613_1S	Matt Cash	17393	1764001-1	1 uL
•	b03nov10a_2-11	HRP763_1	04-NOV-2010 00:01	HMS8290TCS	Matt Cash	17153	1741017-1	1 uL
•	b03nov10a_2-12	HRP763_1	04-NOV-2010 00:49	HMS8290TCS	Matt Cash	17153	1741018-1	1 uL
•	b03nov10a_2-13	HRP763_1	04-NOV-2010 01:37	HMS8290_1S	Matt Cash	17154	1728001-1	1 uL
•	b03nov10a_2-14	HRP763_1	04-NOV-2010 02:26	b03nov10a_2	Matt Cash		CS3WT UD100713-01.2	1 uL
•	b03nov10a_3-1	HRP763_1	04-NOV-2010 03:22	HMS8290_1L	Matt Cash	17193	12002057-1 LCS	1 uL
•	b03nov10a_3-2	HRP763_1	04-NOV-2010 04:10	HMS8290_1L	Matt Cash	17193	12002058-1 LCSD	1 uL
•	b03nov10a_3-3	HRP763_1	04-NOV-2010 04:59	HMS8290_1L	Matt Cash	17193	12002059-1 MB	1 uL
•	b03nov10a_3-4	HRP763_1	04-NOV-2010 05:47	HMS8290_1L	Matt Cash	17193	1730001-1	1 uL
•	b03nov10a_3-5	HRP763_1	04-NOV-2010 06:35	HMS8290_1L	Matt Cash	17193	1730002-1	1 uL
•	b03nov10a_3-6	HRP763_1	04-NOV-2010 07:24	HMS8290_1L	Matt Cash	17193	1730003-1	1 uL
•	b03nov10a_3-7	HRP763_1	04-NOV-2010 08:12	HMS8290_1S	Matt Cash	17294	1744002-1	1 uL
•	b03nov10a_3-8	HRP763_1	04-NOV-2010 09:01	HMS8290_1S	Matt Cash	17294	1744003-1	1 uL

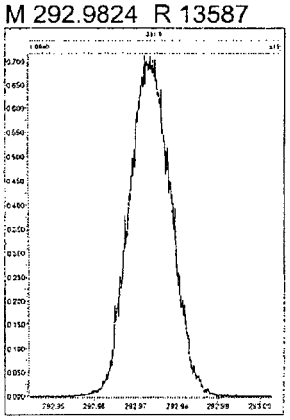
HMP 04Nov10

Experiment Calibration Report **MassLynx 4.1** Page 1 of 1

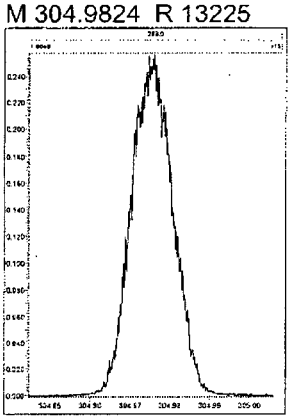
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 03, 2010 08:26:01 Eastern Standard Time

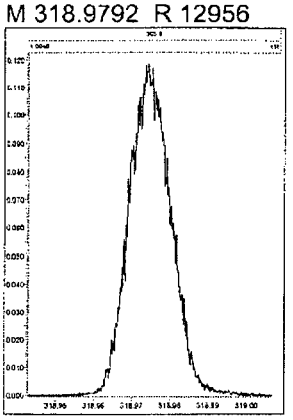
M 292.9824 R 13587



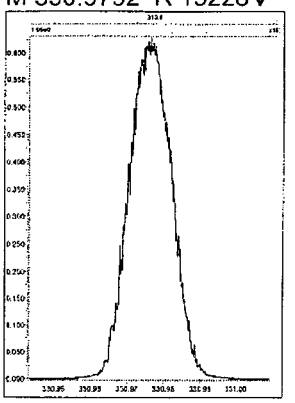
M 304.9824 R 13225



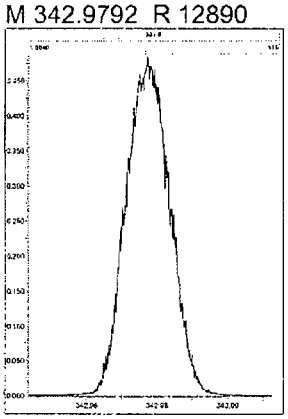
M 318.9792 R 12956



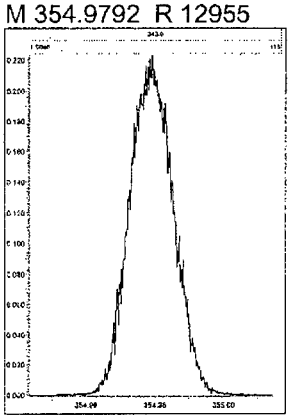
M 330.9792 R 13228 ✓



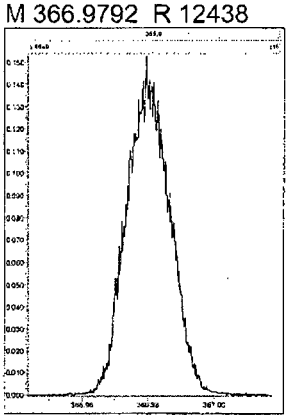
M 342.9792 R 12890



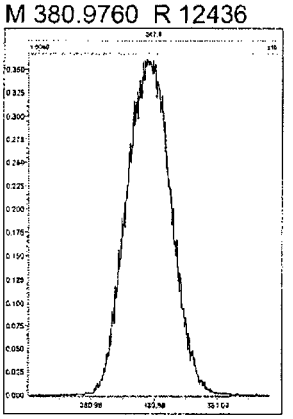
M 354.9792 R 12955



M 366.9792 R 12438



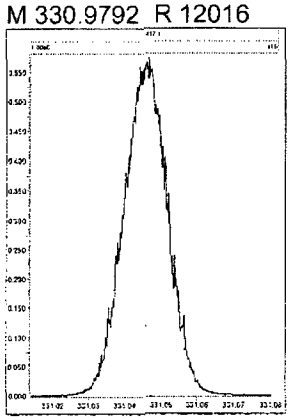
M 380.9760 R 12436



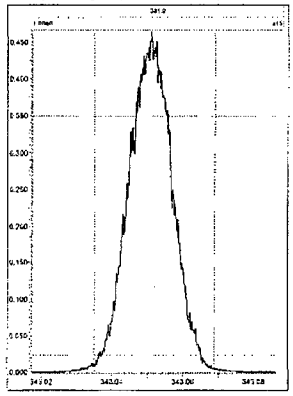
File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 03, 2010 08:26:24 Eastern Standard Time

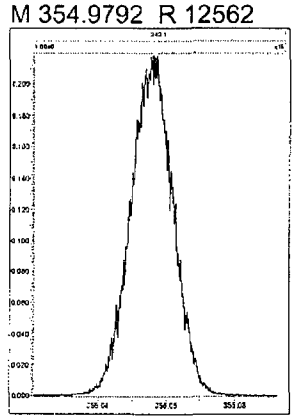
M 330.9792 R 12016



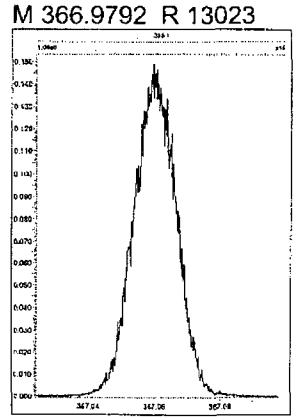
M 342.9792 R 11844



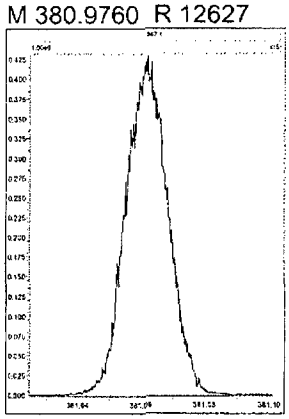
M 354.9792 R 12562



M 366.9792 R 13023

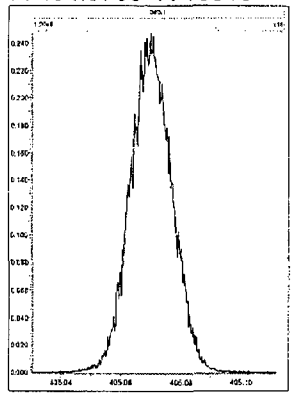


M 380.9760 R 12627

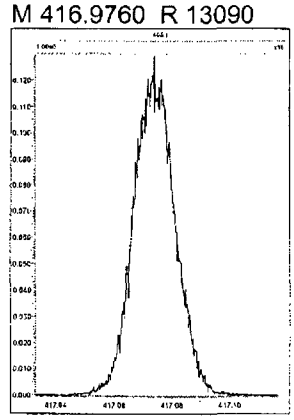


M 392.9760 R 12690

M 404.9760 R 13019



M 416.9760 R 13090



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

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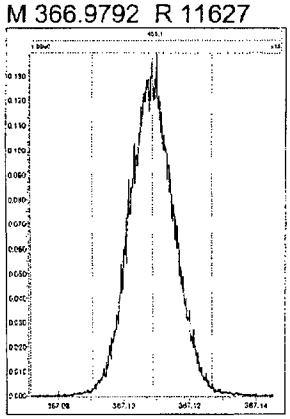
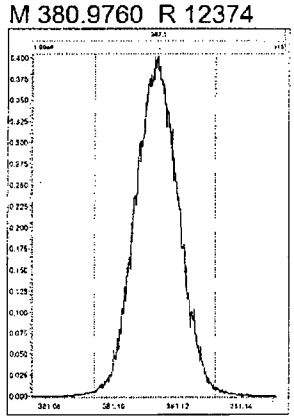
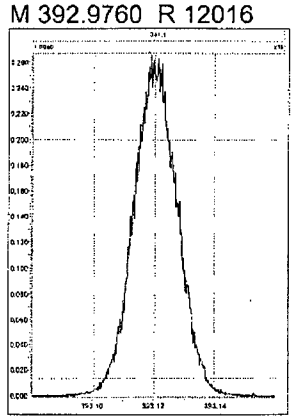
M 366.9792 R 11627



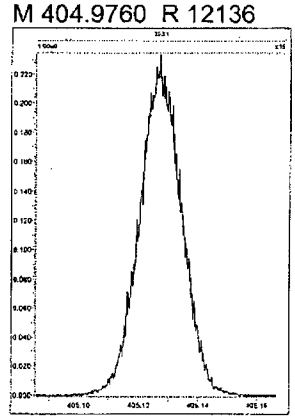
M 380.9760 R 12374



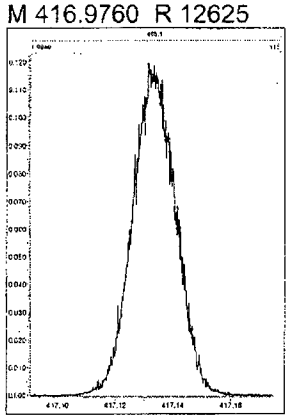
M 392.9760 R 12016



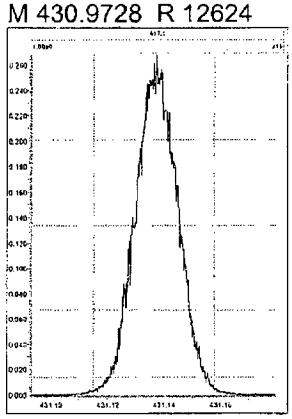
M 404.9760 R 12136



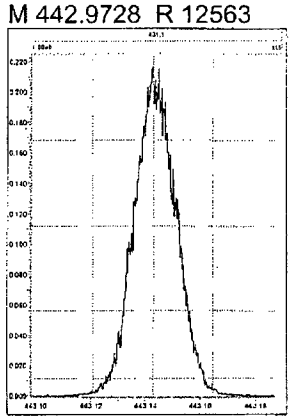
M 416.9760 R 12625



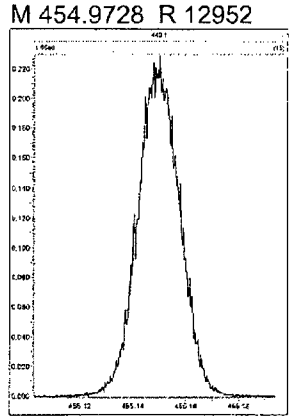
M 430.9728 R 12624



M 442.9728 R 12563



M 454.9728 R 12952



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

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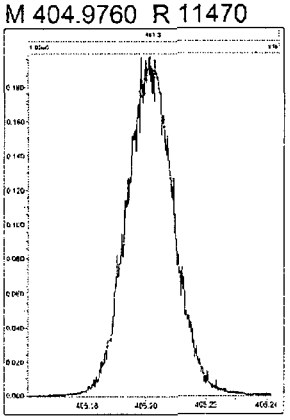
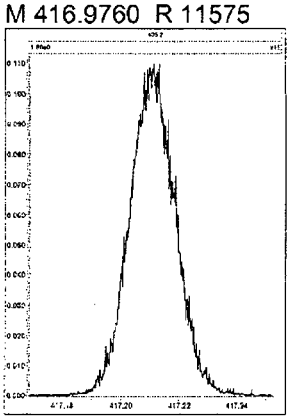
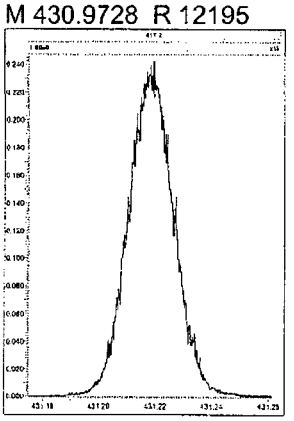
M 404.9760 R 11470



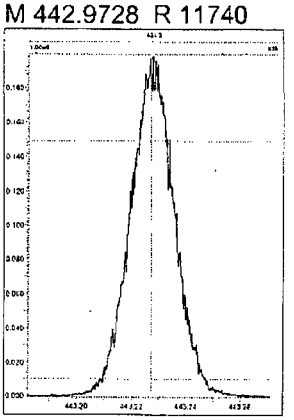
M 416.9760 R 11575



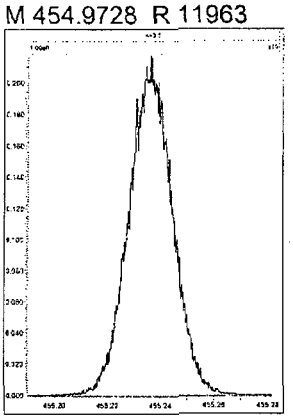
M 430.9728 R 12195



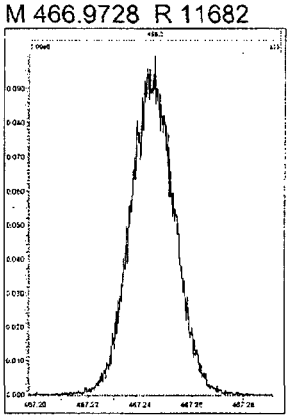
M 442.9728 R 11740



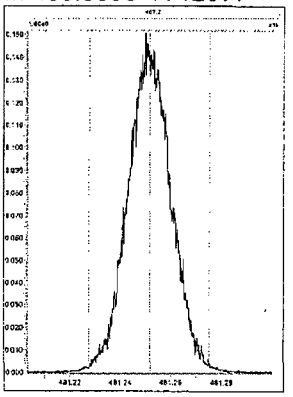
M 454.9728 R 11963



M 466.9728 R 11682



M 480.9696 R 12077



File: Experiment: dioxin_db5ms.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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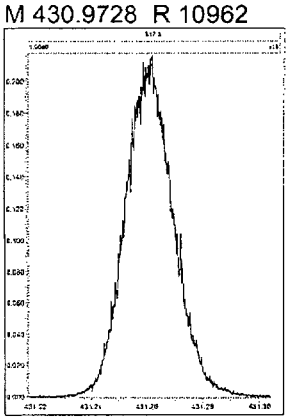
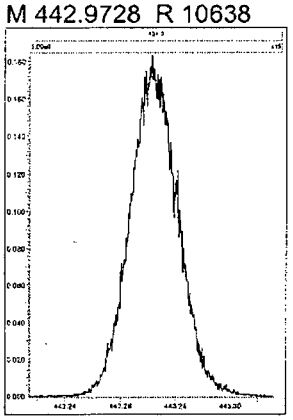
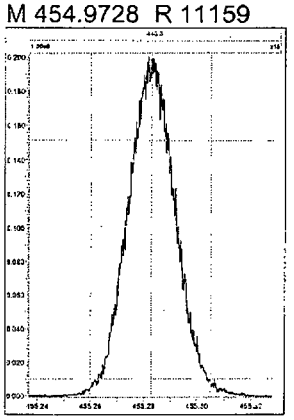
M 430.9728 R 10962



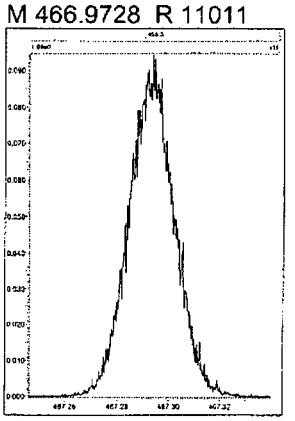
M 442.9728 R 10638



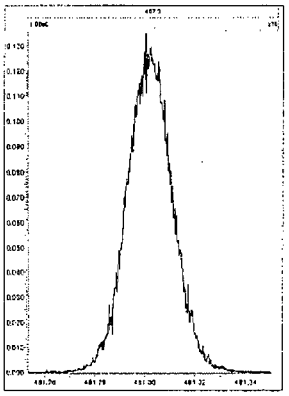
M 454.9728 R 11159



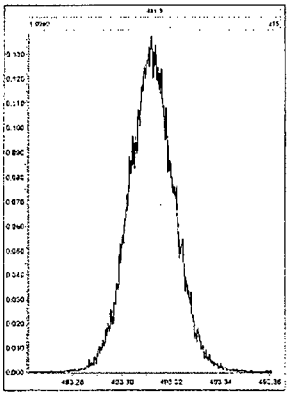
M 466.9728 R 11011



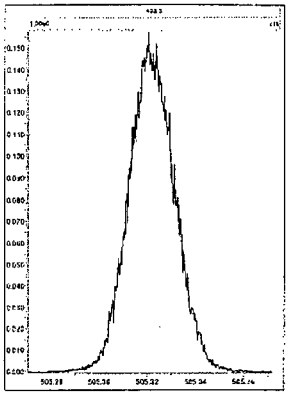
M 480.9696 R 11521



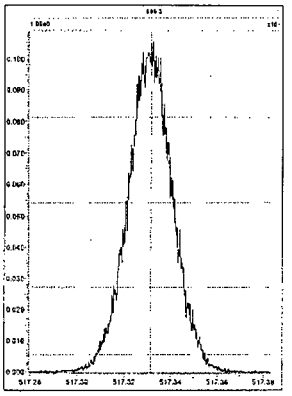
M 492.9696 R 11415



M 504.9696 R 11260



M 516.9697 R 11212



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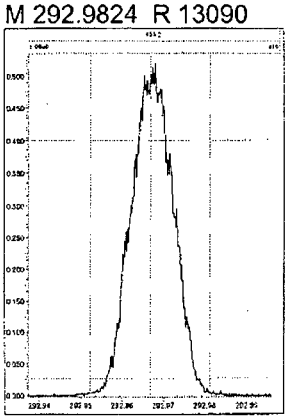
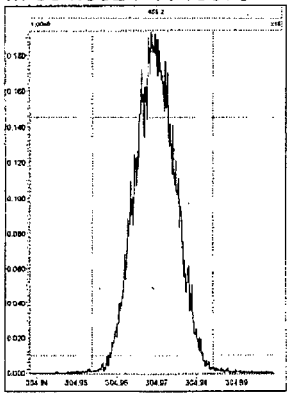
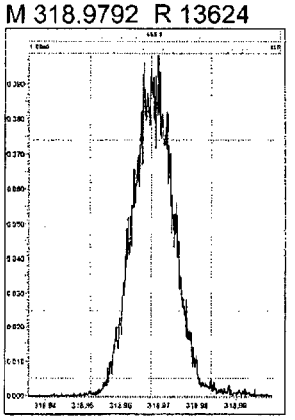
M 292.9824 R 13090



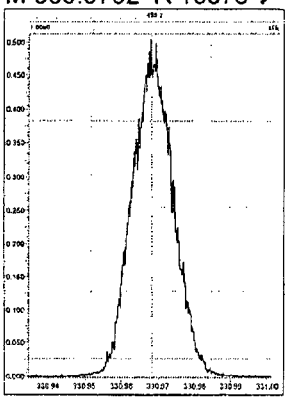
M 304.9824 R 13370



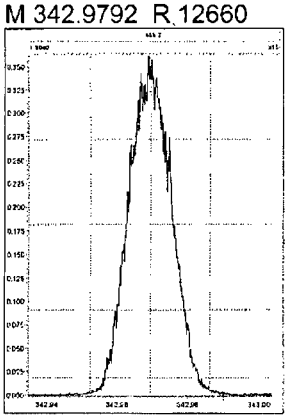
M 318.9792 R 13624



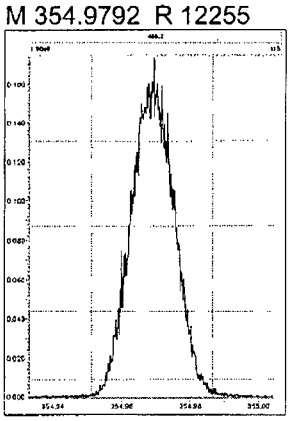
M 330.9792 R 13378



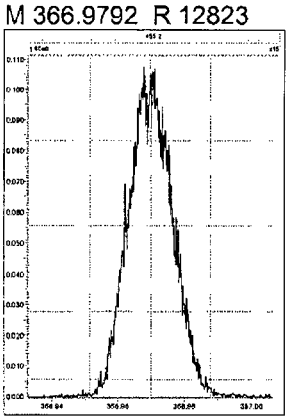
M 342.9792 R 12660



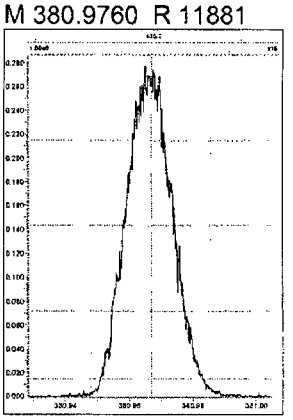
M 354.9792 R 12255



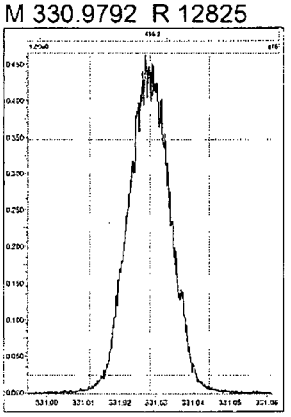
M 366.9792 R 12823



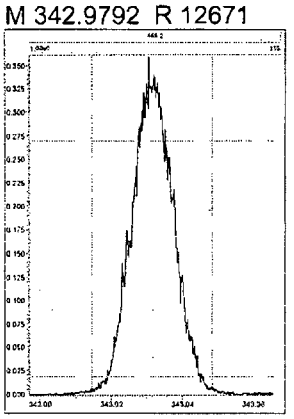
M 380.9760 R 11881



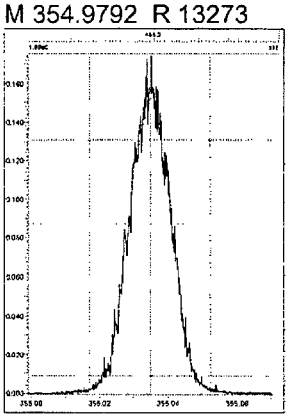
M 330.9792 R 12825



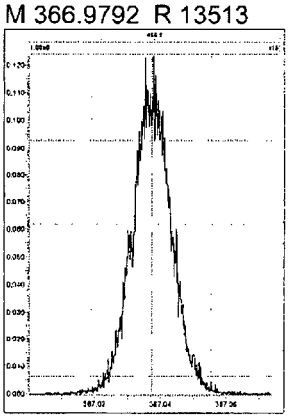
M 342.9792 R 12671



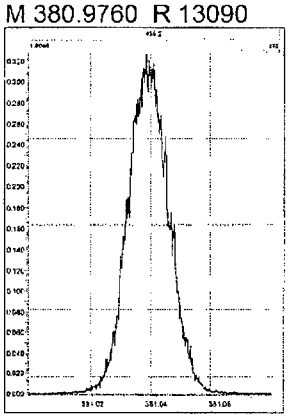
M 354.9792 R 13273



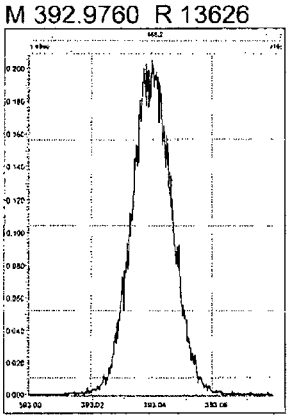
M 366.9792 R 13513



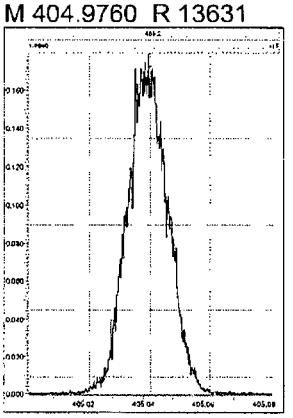
M 380.9760 R 13090



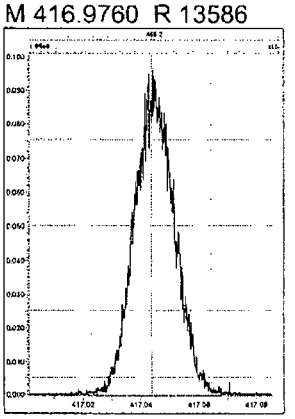
M 392.9760 R 13626



M 404.9760 R 13631



M 416.9760 R 13586



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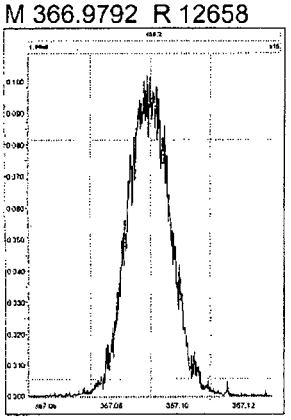
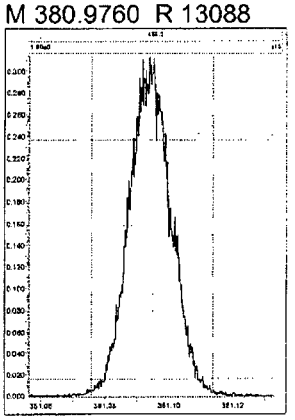
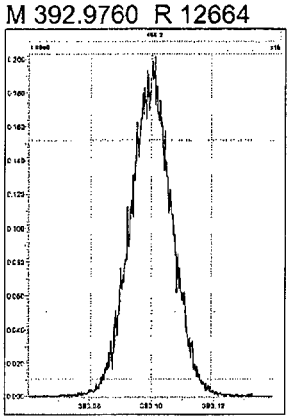
M 366.9792 R 12658



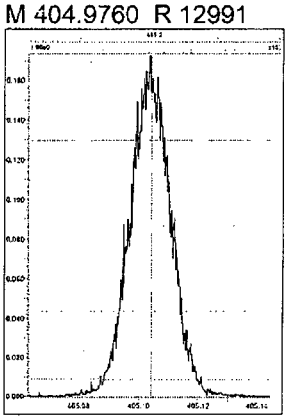
M 380.9760 R 13088



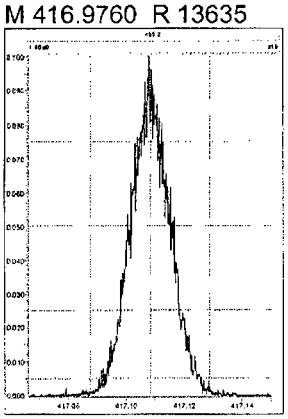
M 392.9760 R 12664



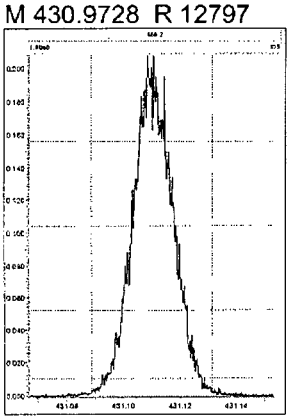
M 404.9760 R 12991



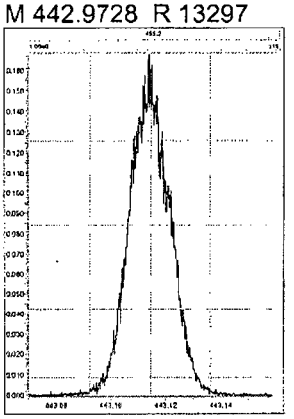
M 416.9760 R 13635



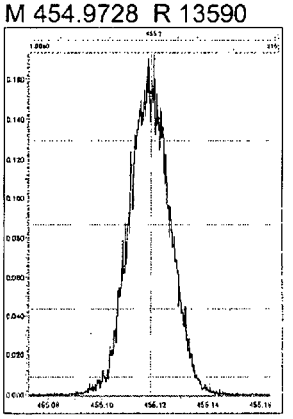
M 430.9728 R 12797



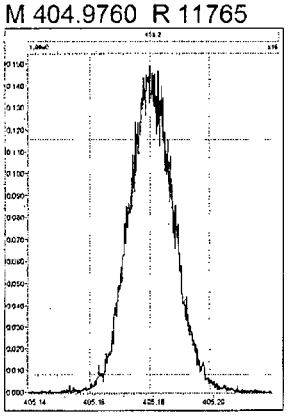
M 442.9728 R 13297



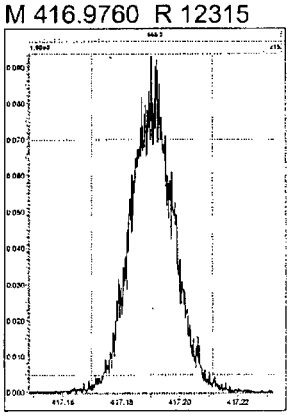
M 454.9728 R 13590



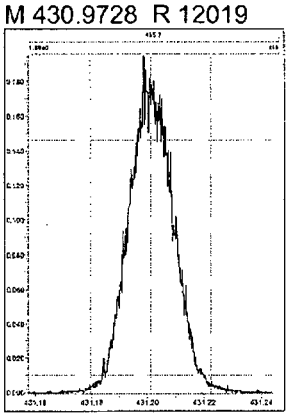
M 404.9760 R 11765



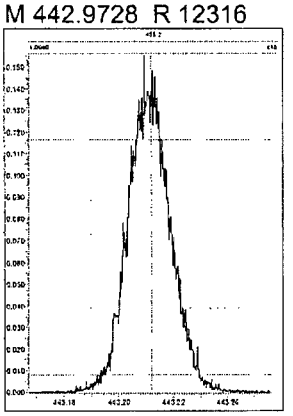
M 416.9760 R 12315



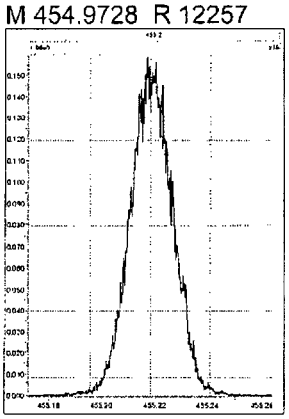
M 430.9728 R 12019



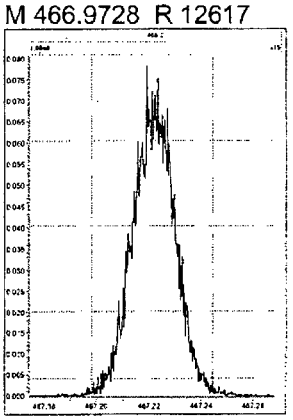
M 442.9728 R 12316



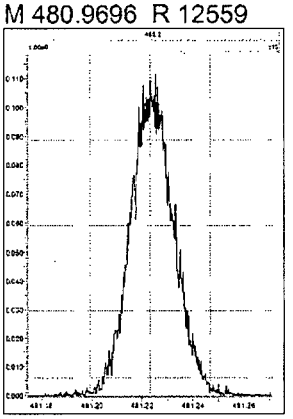
M 454.9728 R 12257



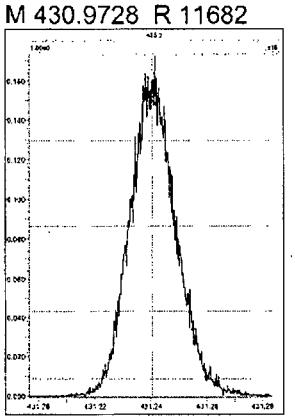
M 466.9728 R 12617



M 480.9696 R 12559



M 430.9728 R 11682



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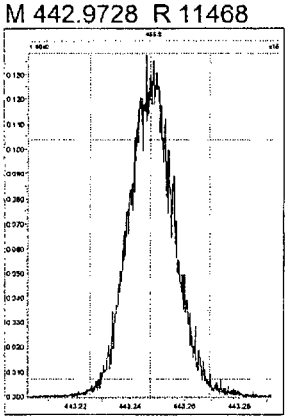
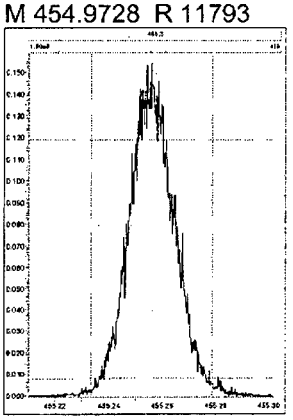
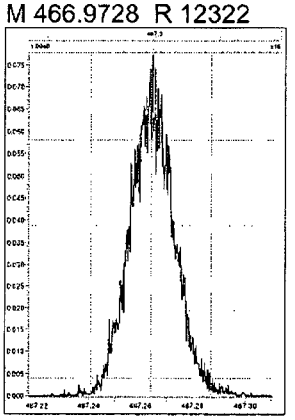
M 442.9728 R 11468



M 454.9728 R 11793



M 466.9728 R 12322



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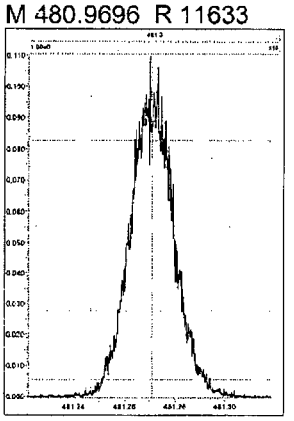

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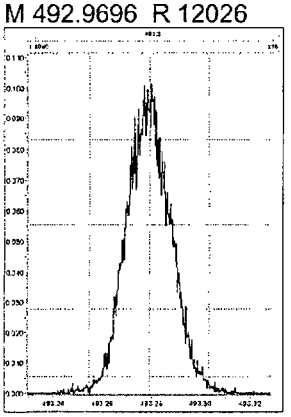
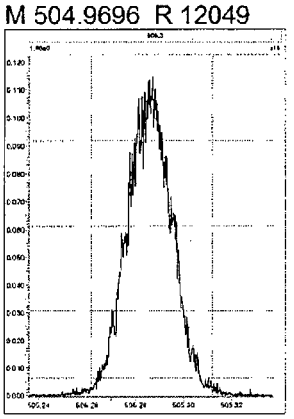
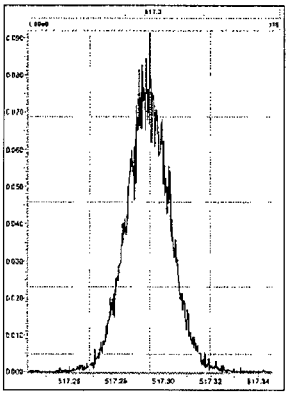


M 504.9696 R 12049



M 516.9697 R 11961



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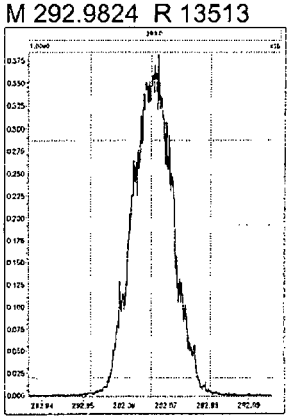
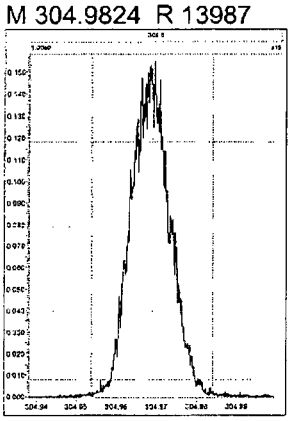
M 292.9824 R 13513



M 304.9824 R 13987



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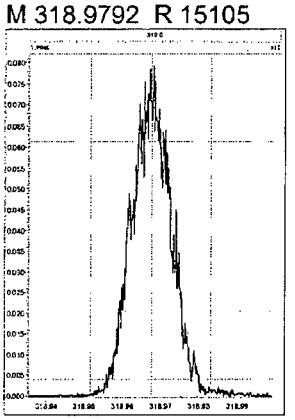
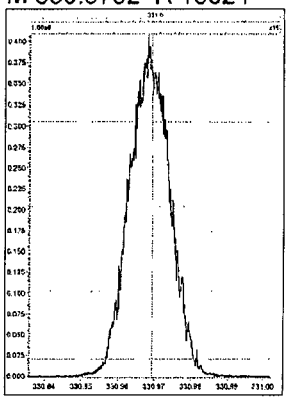


M 330.9792 R 13624 ✓



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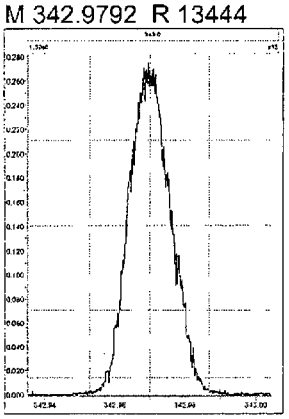

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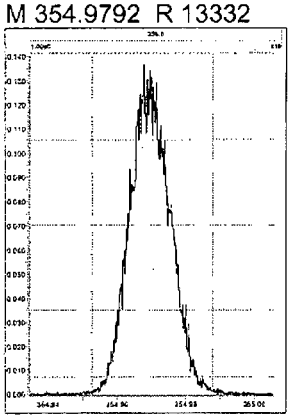
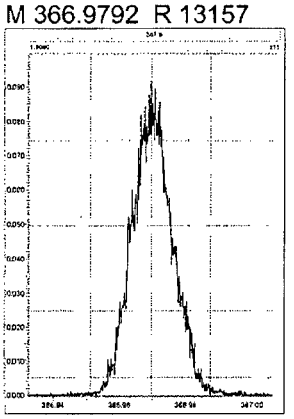
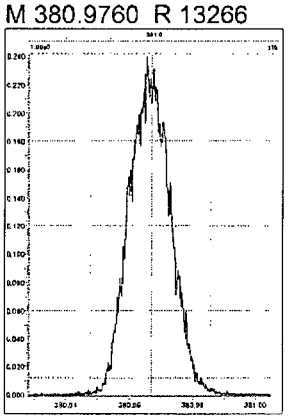


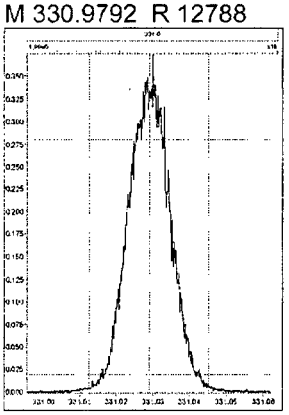
M 366.9792 R 13157



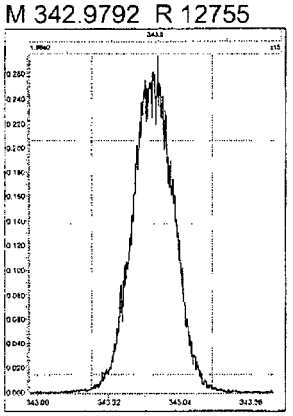
M 380.9760 R 13266



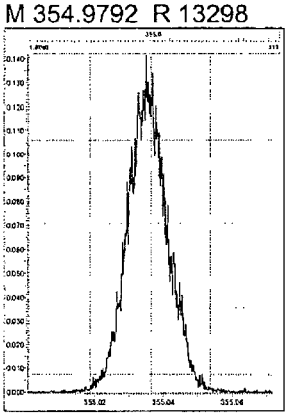
M 330.9792 R 12788



M 342.9792 R 12755



M 354.9792 R 13298



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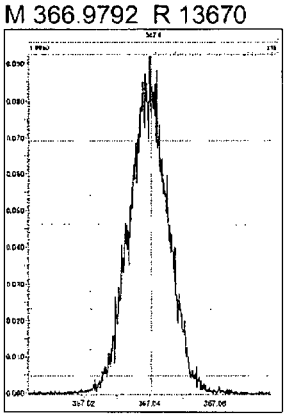

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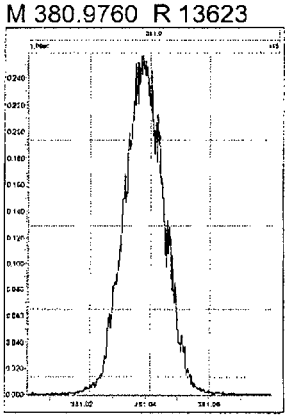

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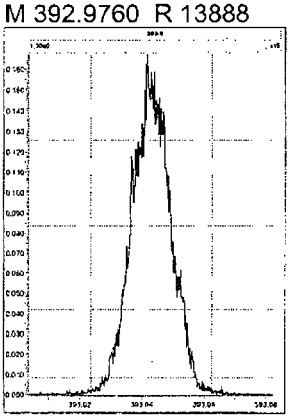
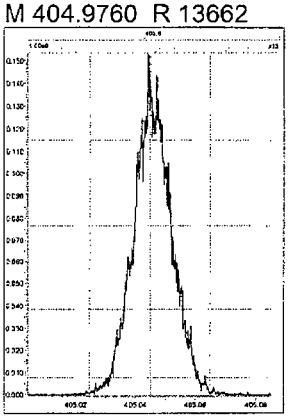
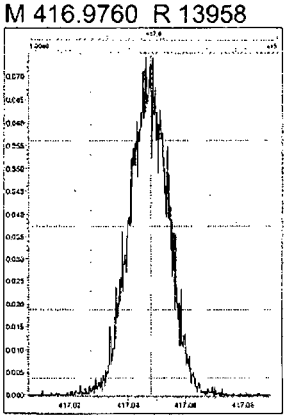


M 404.9760 R 13662



M 416.9760 R 13958



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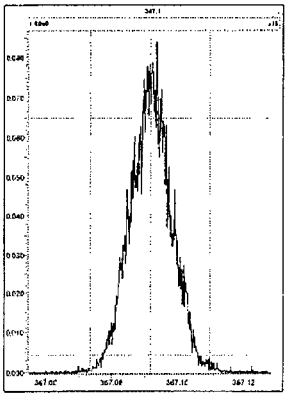
M 366.9792 R 12889



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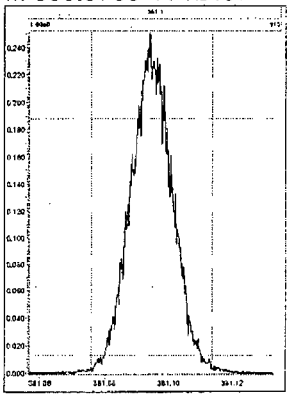

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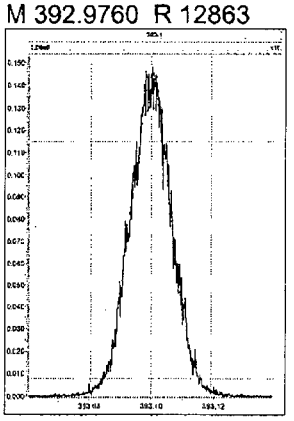

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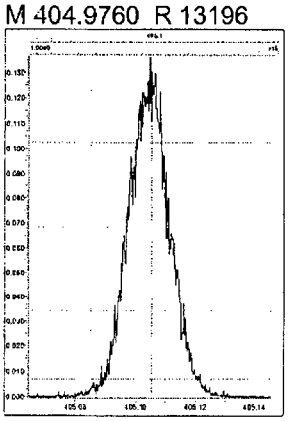
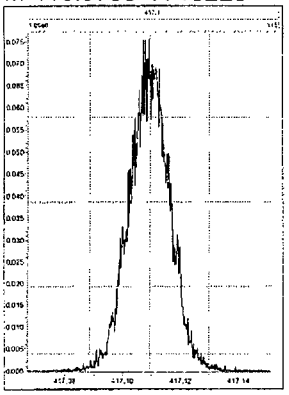
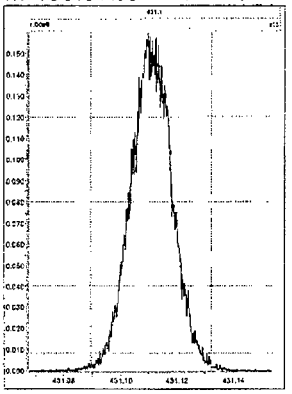


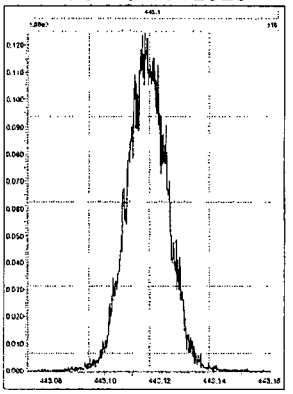
M 416.9760 R 13228



M 430.9728 R 12470



M 442.9728 R 12929



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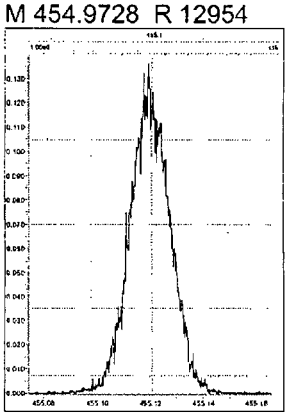

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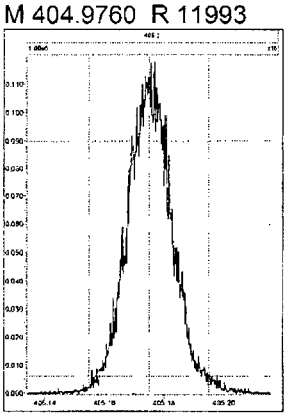

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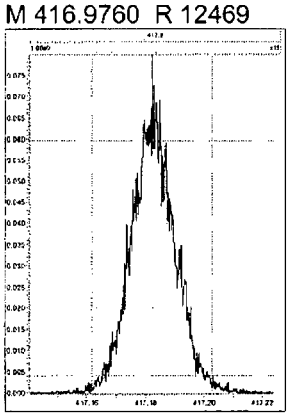

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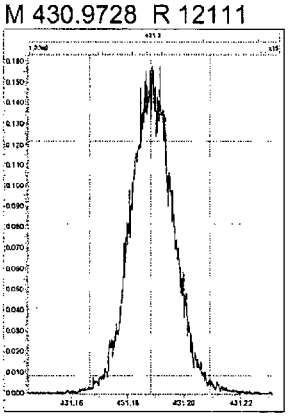
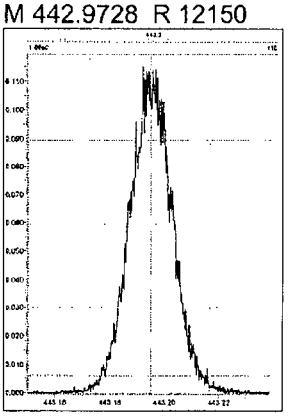


M 442.9728 R 12150



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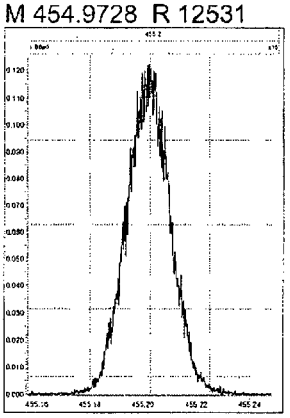

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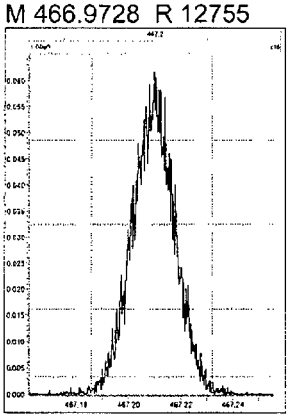

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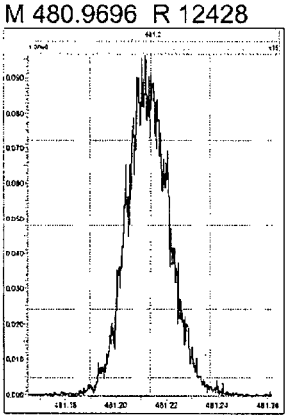

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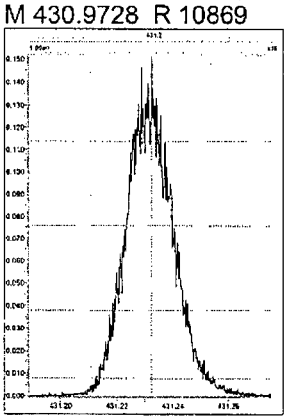

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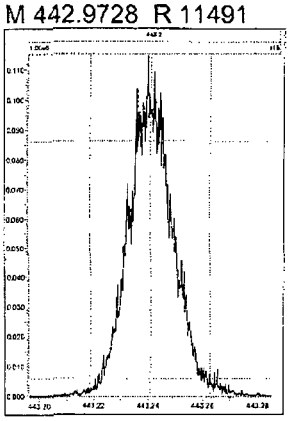

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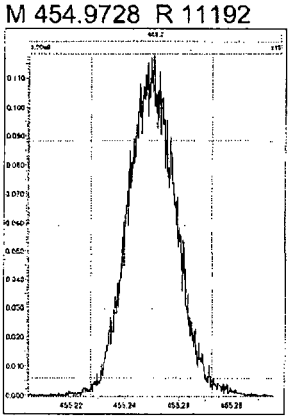

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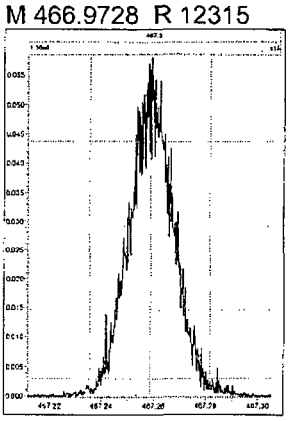

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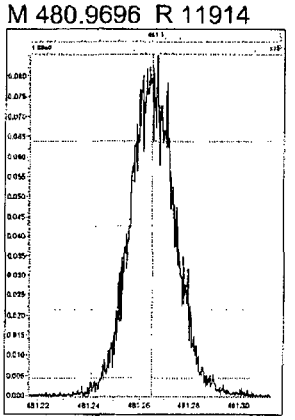

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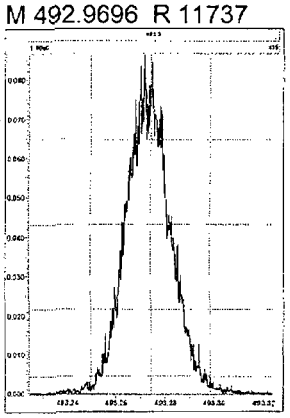

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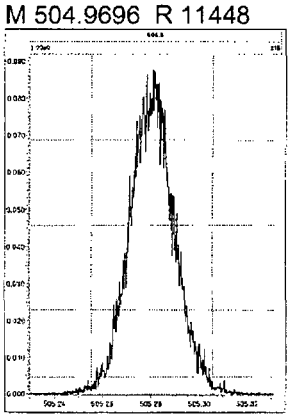
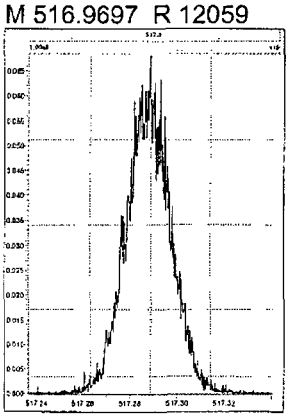
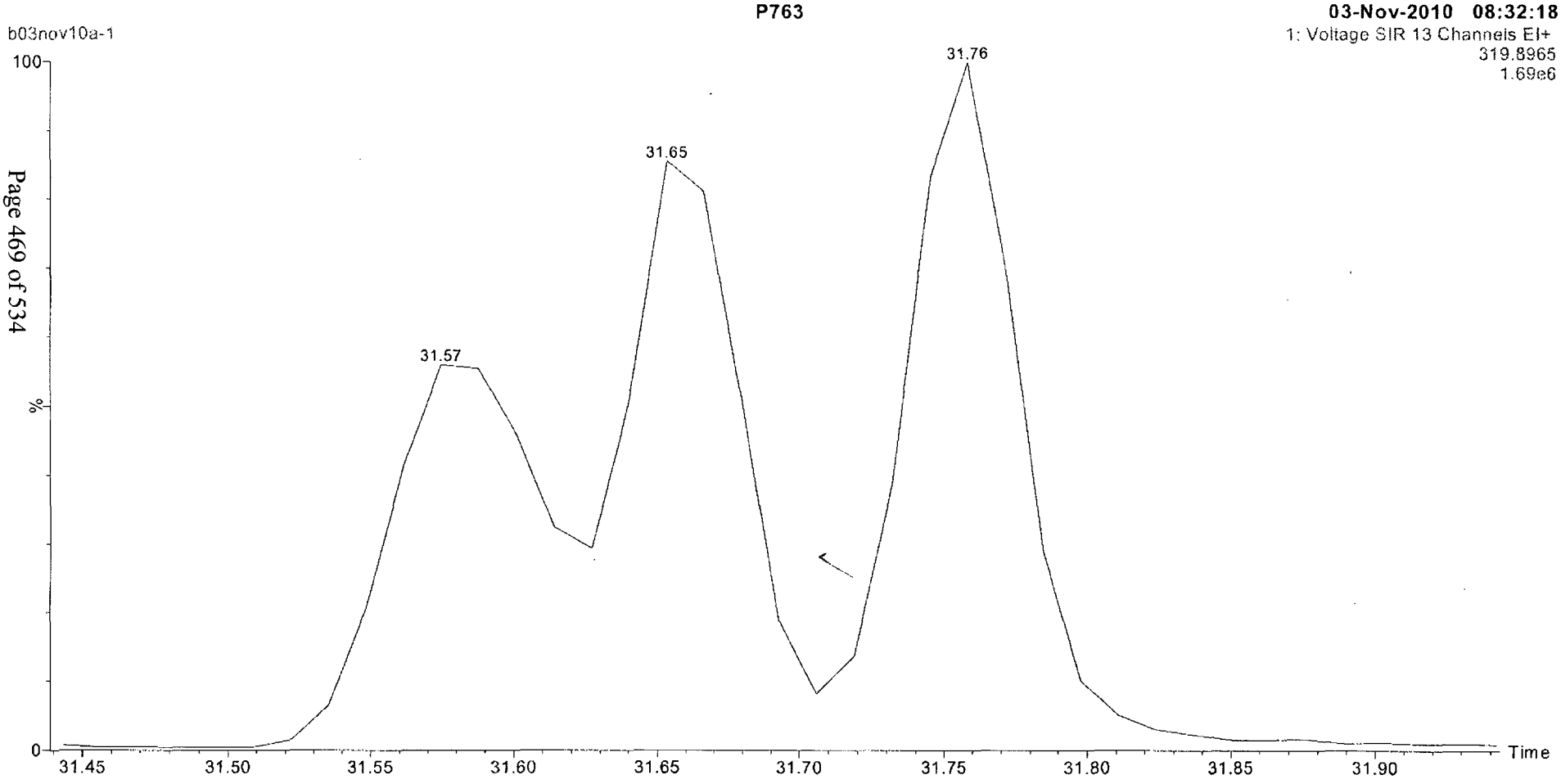


M 516.9697 R 12059



COLUMN CHECK (2378-TCDD 8%)



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-1.qld

Last Altered: Wednesday, November 03, 2010 15:13:15 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:14:00 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	27.05
2	Last TCDF	32.32
3	First PeCDF	32.30
4	Last PeCDF	35.00
5	First HxCDF	35.51
6	Last HxCDF	37.91
7	First HpCDF	39.45
8	Last HpCDF	41.45
9	OCDF	45.51
10	First TCDD	28.79
11	2378-TCDD	31.76
12	Last TCDD	32.24
13	First PeCDD	33.17
14	Last PeCDD	34.82
15	First HxCDD	35.94
16	Last HxCDD	37.57
17	First HpCDD	39.78
18	Last HpCDD	40.75
19	OCDD	45.18

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

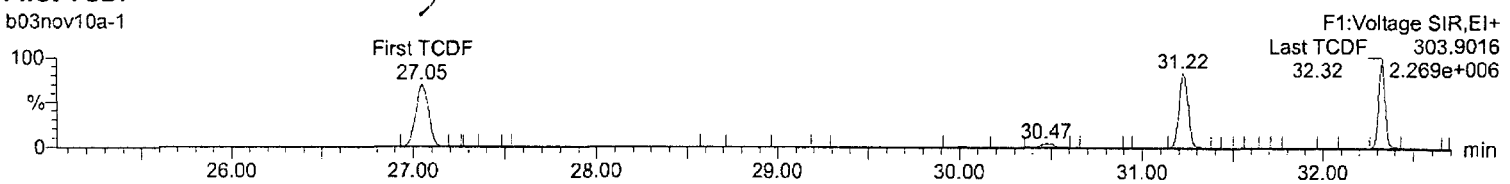
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-1.qld

Last Altered: Wednesday, November 03, 2010 15:13:15 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:14:00 Eastern Standard Time

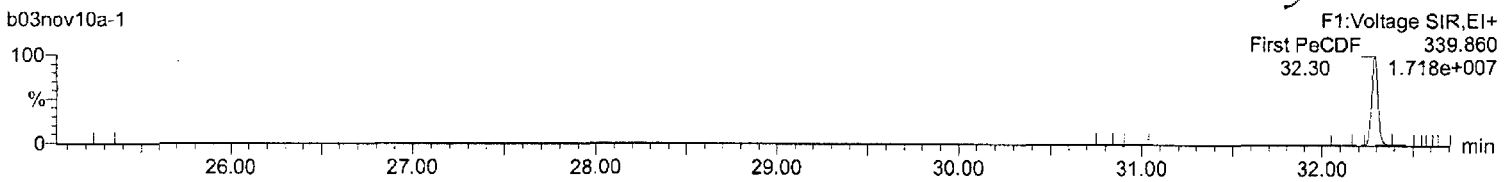
Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\Default.pro\Curvedb\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

First TCDF



First PeCDF



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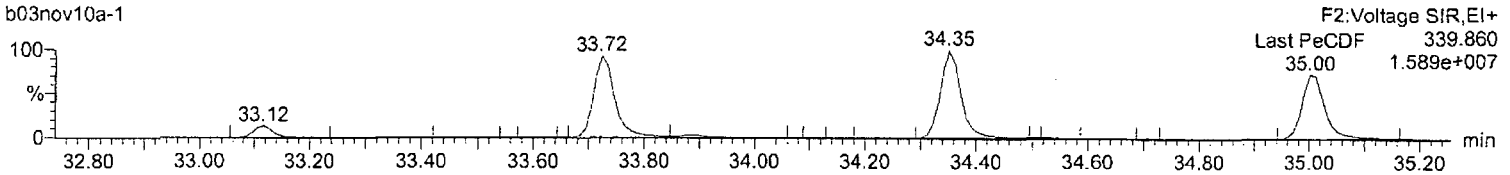

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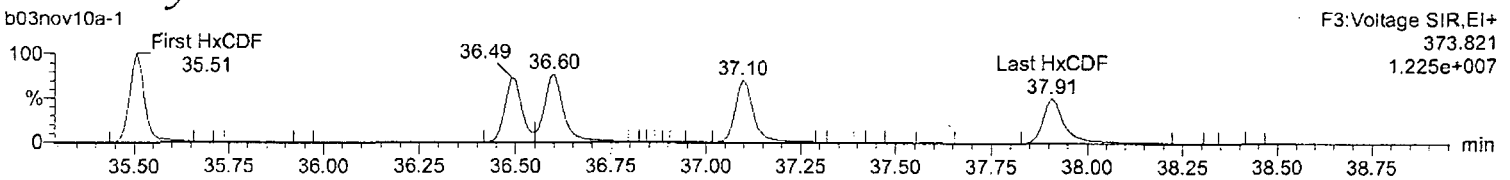
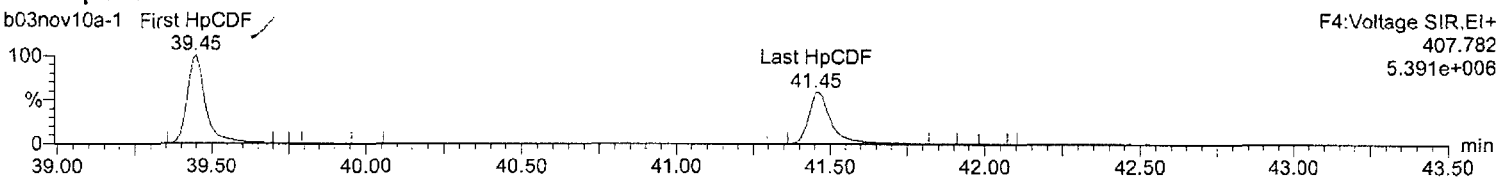
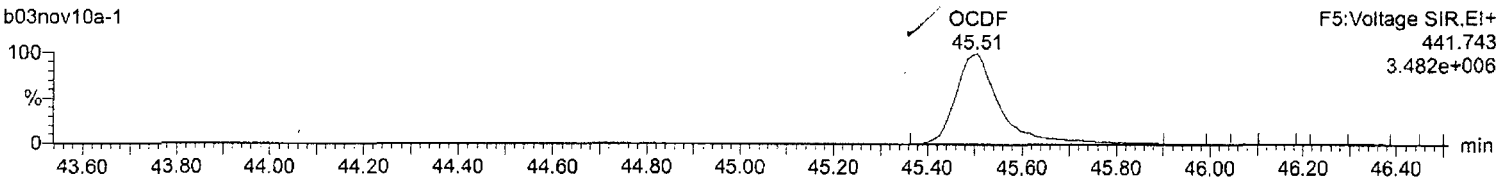


First HpCDF



OCDF



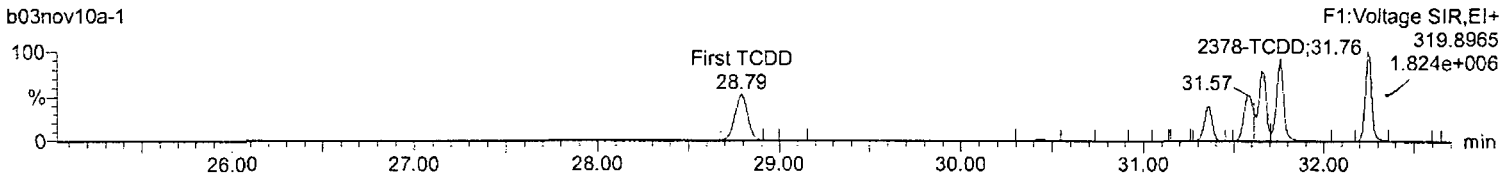
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-1.qld

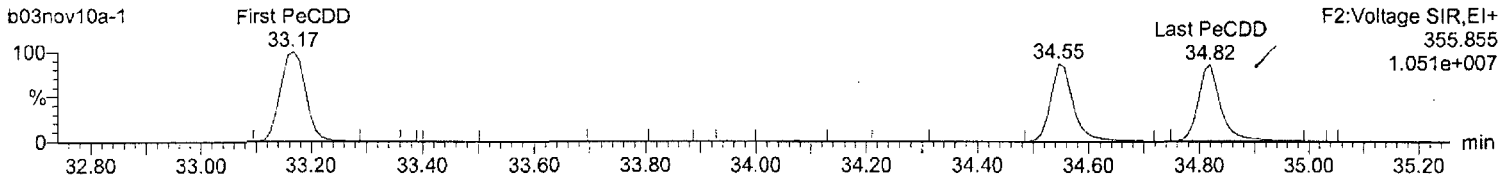
Last Altered: Wednesday, November 03, 2010 15:13:15 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:14:00 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

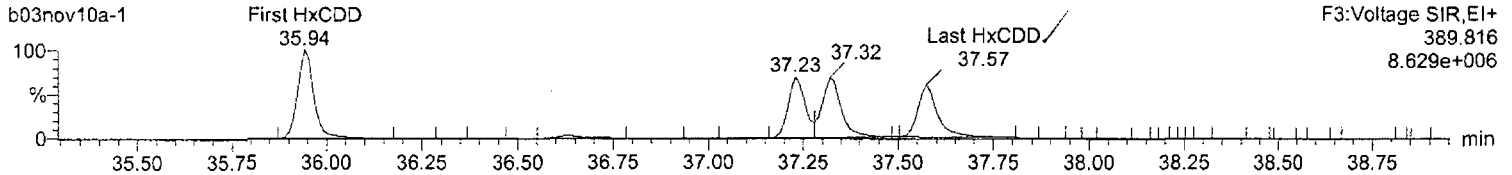
First TCDD



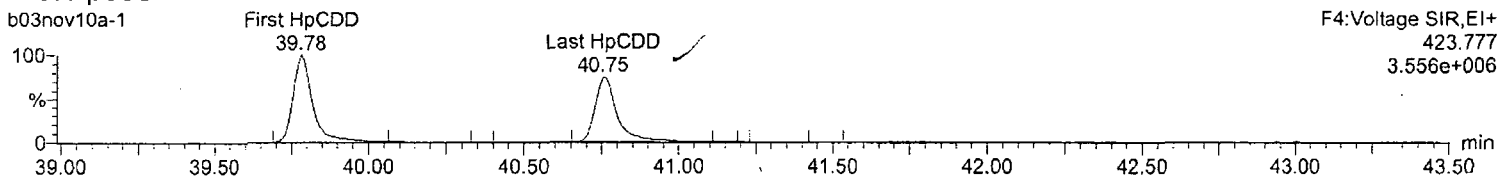
First PeCDD



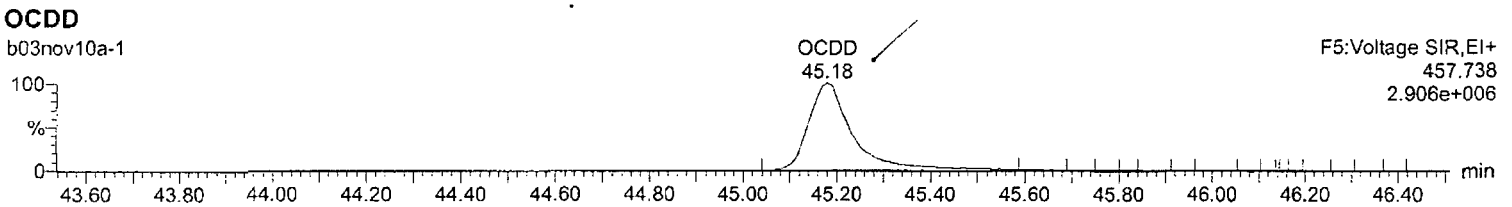
First HxCDD



First HpCDD



OCDD



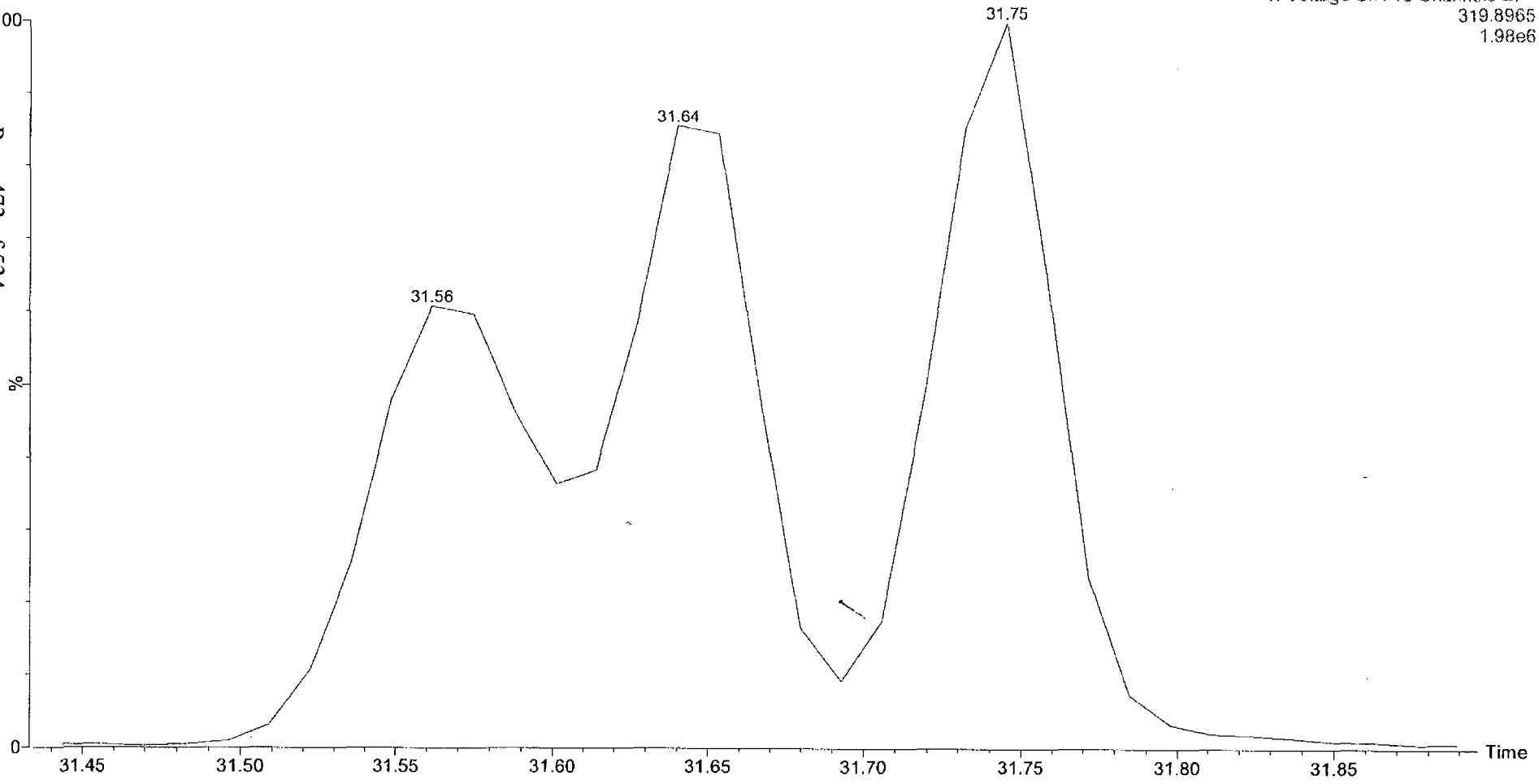
COLUMN CHECK (2378-TCDD 9%)

P763

03-Nov-2010 14:58:55

b03nov10a-9

1: Voltage SIR 13 Channels EI+
319.8965
1.98e6



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:53:31 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:54:06 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	27.02
2	Last TCDF	32.31
3	First PeCDF	32.28
4	Last PeCDF	34.99
5	First HxCDF	35.50
6	Last HxCDF	37.90
7	First HpCDF	39.43
8	Last HpCDF	41.44
9	OCDF	45.49
10	First TCDD	28.78
11	2378-TCDD	31.75
12	Last TCDD	32.23
13	First PeCDD	33.16
14	Last PeCDD	34.80
15	First HxCDD	35.93
16	Last HxCDD	37.56
17	First HpCDD	39.77
18	Last HpCDD	40.74
19	OCDD	45.16

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

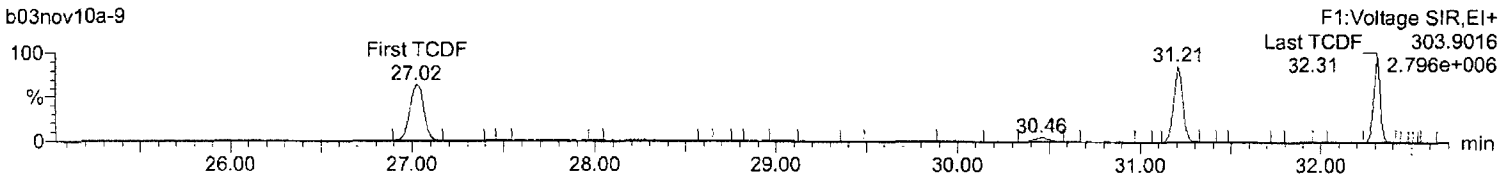
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:53:31 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:54:06 Eastern Standard Time

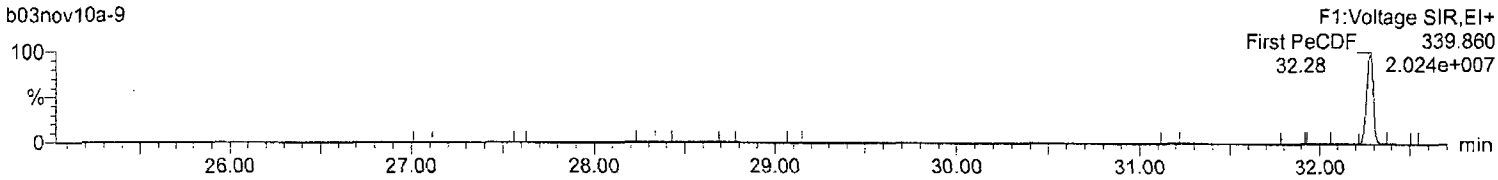
Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

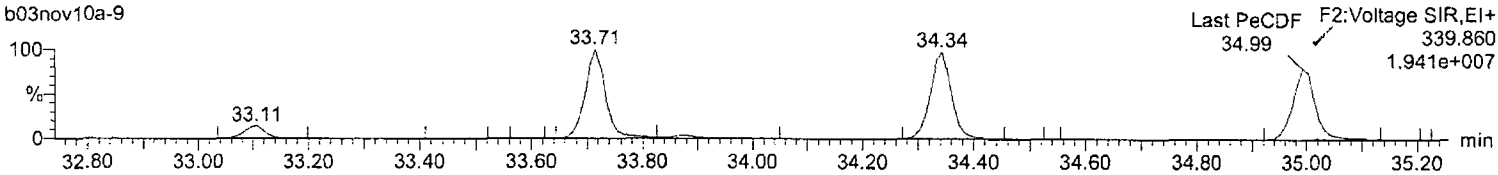
First TCDF



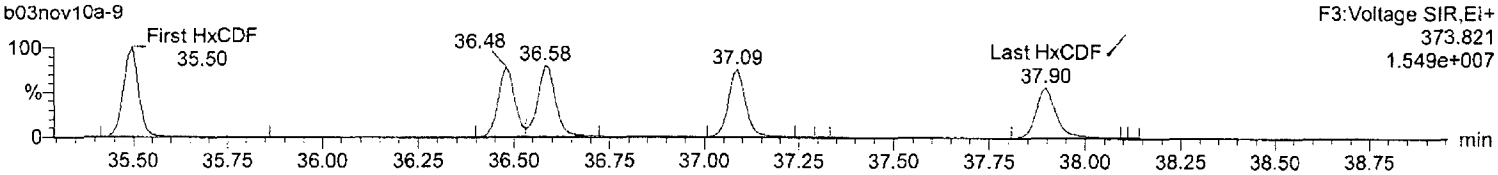
First PeCDF



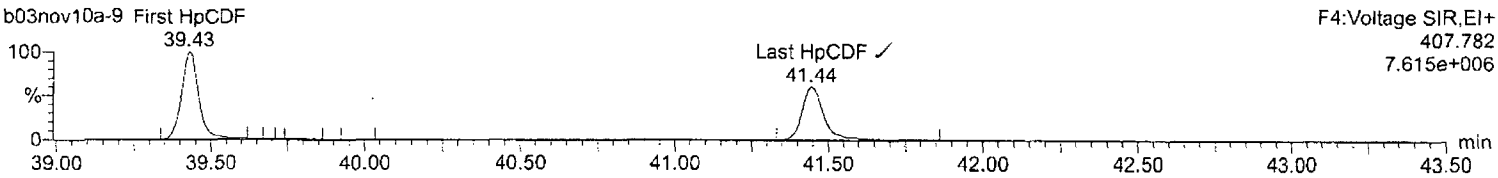
Last PeCDF



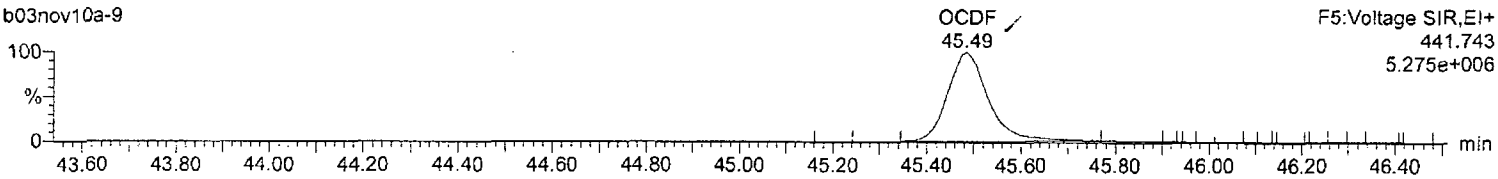
First HxCDF



First HpCDF



OCDF



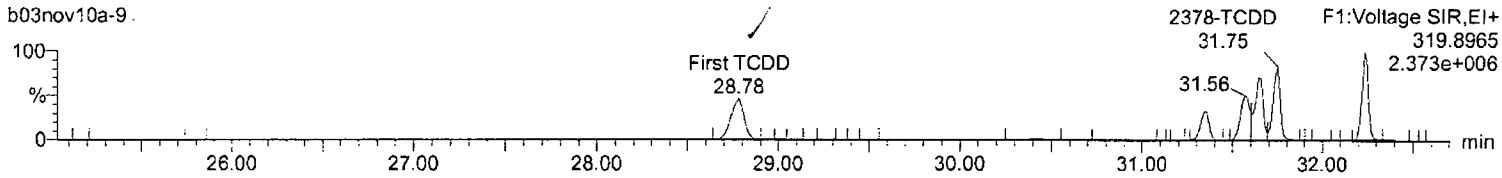
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a-9.qld

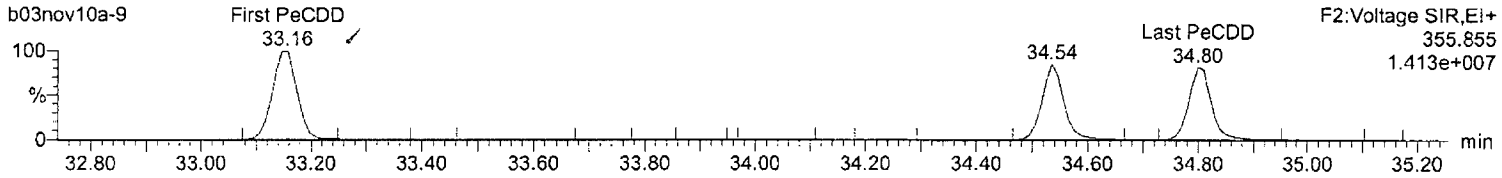
Last Altered: Wednesday, November 03, 2010 15:53:31 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:54:06 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

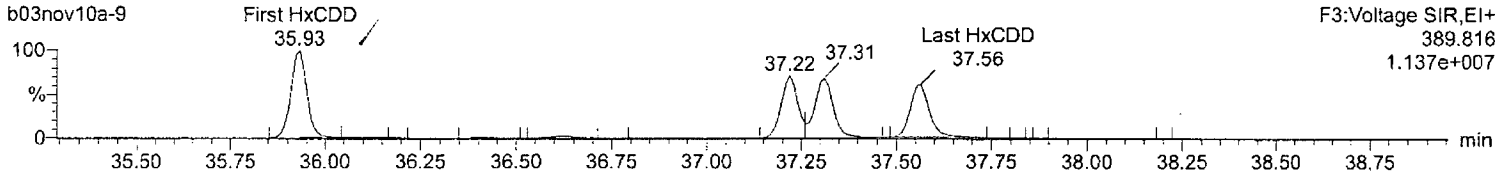
First TCDD



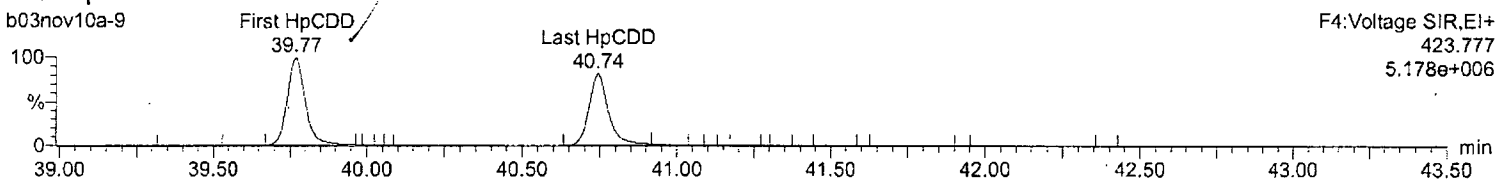
First PeCDD



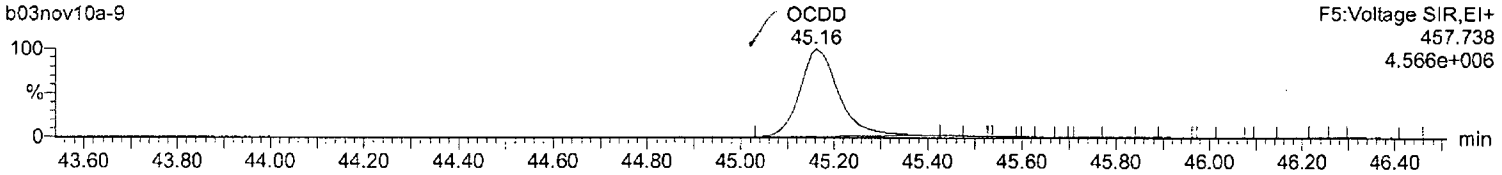
First HxCDD



First HpCDD



OCDD



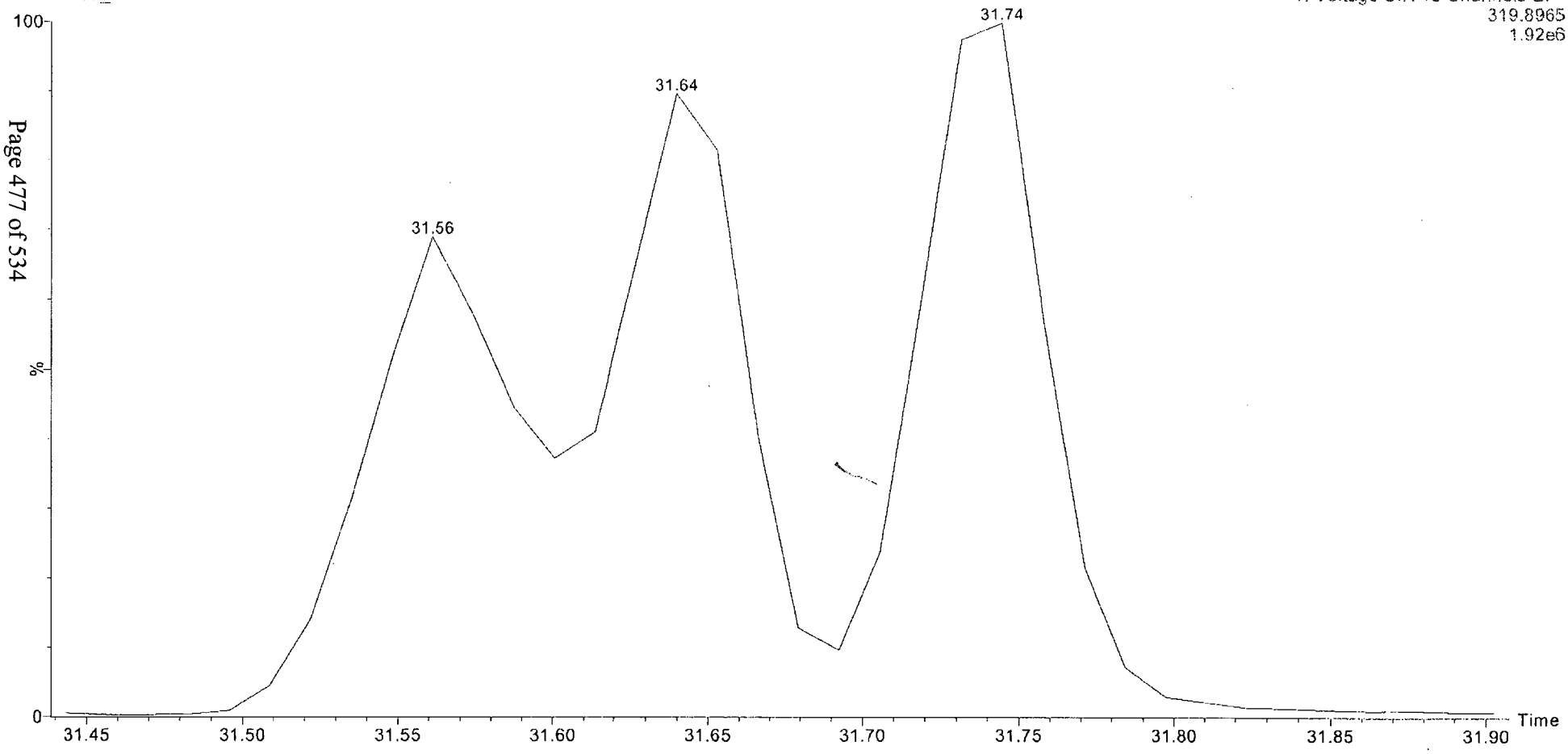
COLUMN CHECK (2378-TCDD 9%)

P763

04-Nov-2010 02:26:16

b03nov10a_2-14

1: Voltage SIR 13 Channels EI+
319.8965
1.92e6



Quantify Sample Summary Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a_2-14.qld

Last Altered: Thursday, November 04, 2010 08:32:00 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:34:42 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

	Name	RT
1	First TCDF	27.02
2	Last TCDF	32.31
3	First PeCDF	32.27
4	Last PeCDF	34.99
5	First HxCDF	35.50
6	Last HxCDF	37.90
7	First HpCDF	39.44
8	Last HpCDF	41.45
9	OCDF	45.49
10	First TCDD	28.77
11	2378-TCDD	31.74
12	Last TCDD	32.23
13	First PeCDD	33.15
14	Last PeCDD	34.80
15	First HxCDD	35.93
16	Last HxCDD	37.56
17	First HpCDD	39.77
18	Last HpCDD	40.74
19	OCDD	45.17

Quantify Sample Report **MassLynx 4.1**
Window Defining Report

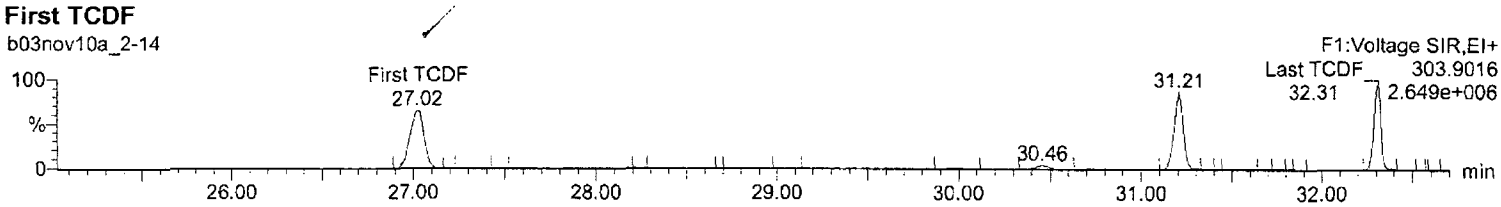
Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a_2-14.qld

Last Altered: Thursday, November 04, 2010 08:32:00 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:34:42 Eastern Standard Time

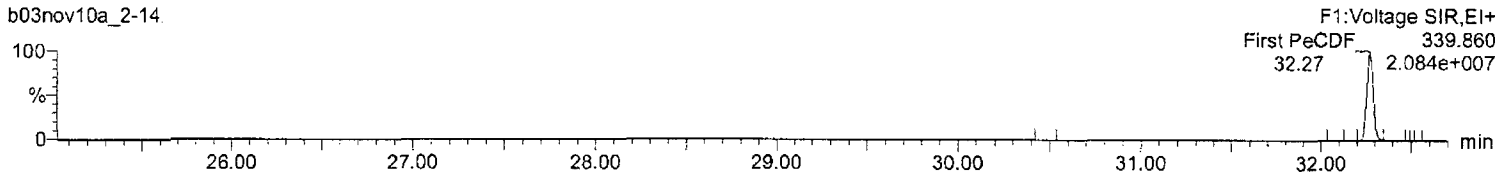
Method: C:\MassLynx\Default.pro\Methdb\WDM_110110.mdb 02 Nov 2010 09:13:24
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

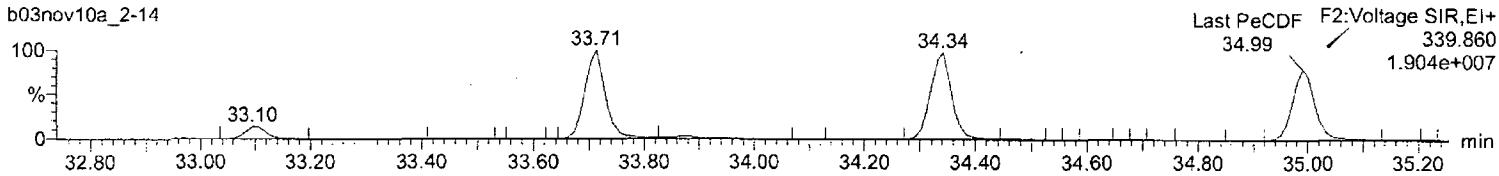
First TCDF



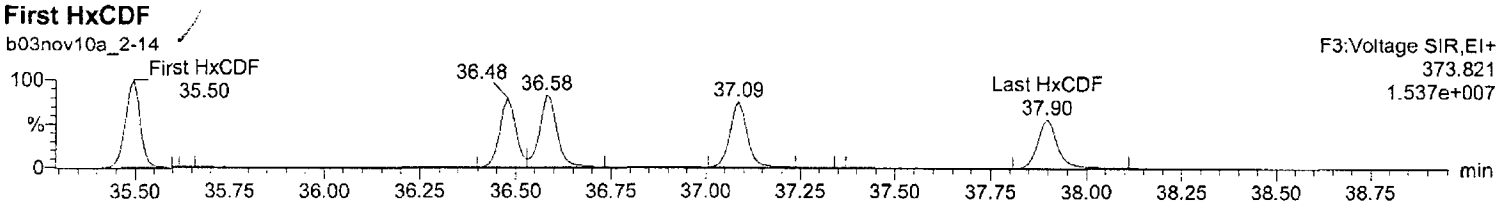
First PeCDF



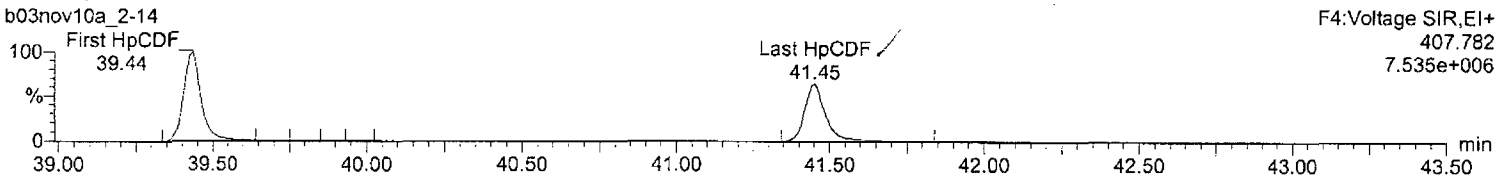
Last PeCDF



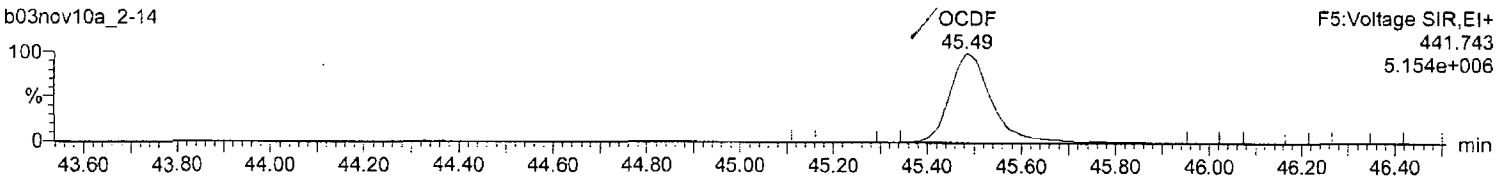
First HxCDF



First HpCDF



OCDF



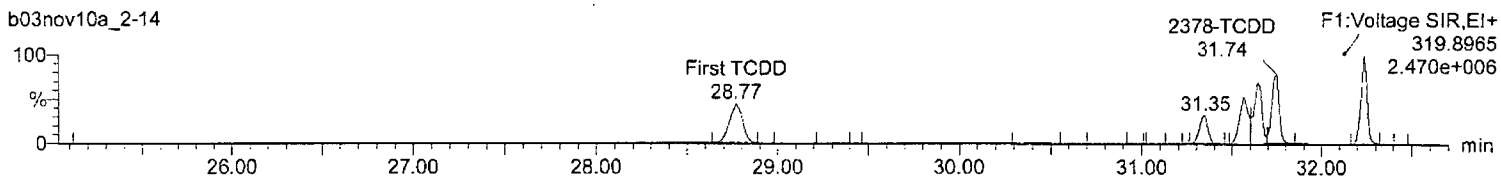
Quantify Sample Report **MassLynx 4.1**
Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM Results\wdm-b03nov10a_2-14.qld

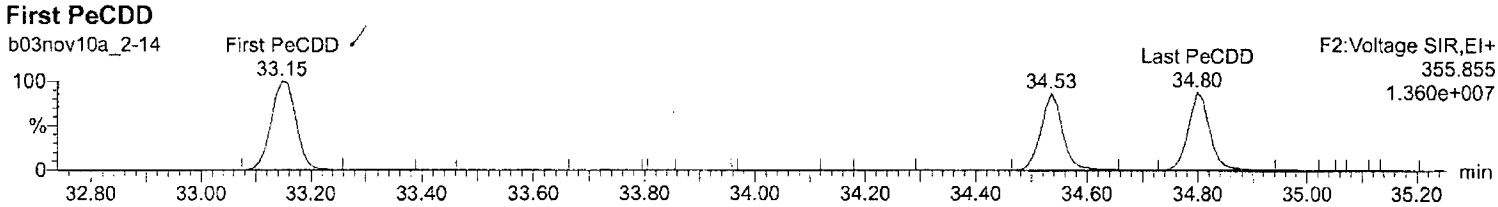
Last Altered: Thursday, November 04, 2010 08:32:00 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:34:42 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

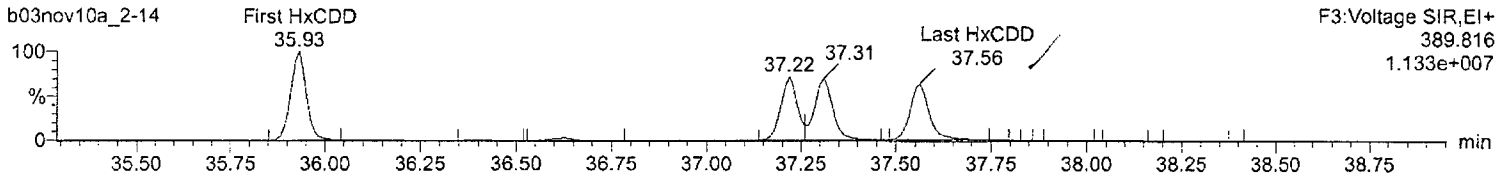
First TCDD



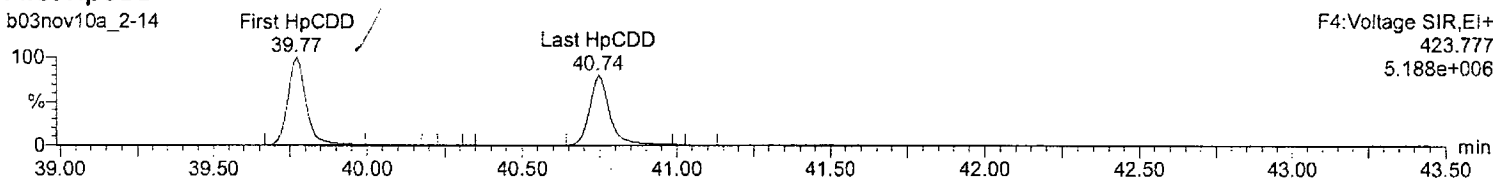
First PeCDD



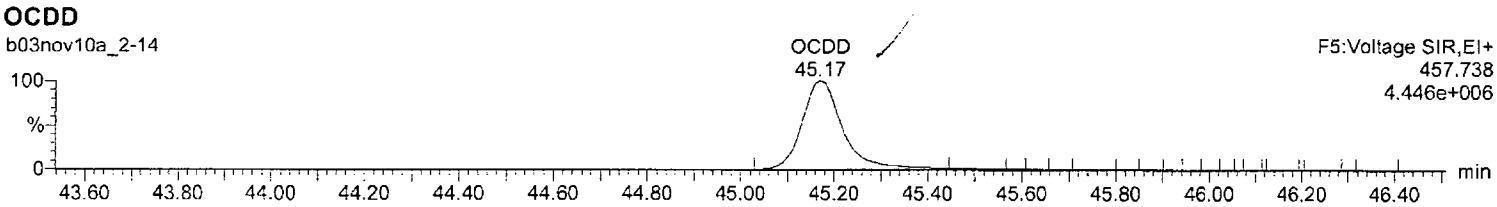
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	8.03e4	9.94e4	1.80e5	31.76	1.000	0.81	NO	11.051	0.0277	1.119	10.5	1.68e6	1428	1177.3	2.09e6	1788	1171.7	db
2	12378-PeCDD	4.23e5	2.67e5	6.90e5	34.55	1.000	1.58	NO	50.491	0.111	1.042	1.0	9.14e6	4439	2058.4	5.73e6	6338	903.4	bb
3	123478-HxCDD	3.06e5	2.45e5	5.51e5	37.23	0.998	1.25	NO	49.034	0.174	0.879	-1.9	5.97e6	6397	932.9	4.83e6	4981	970.6	bd
4	123678-HxCDD	3.39e5	2.67e5	6.06e5	37.32	1.000	1.27	NO	49.983	0.161	0.967	-0.0	5.81e6	6397	907.4	4.54e6	4981	912.0	db
5	123789-HxCDD	3.04e5	2.37e5	5.41e5	37.57	1.007	1.28	NO	49.886	0.180	0.863	-0.2	5.13e6	6397	801.5	3.99e6	4981	800.3	bb
6	1234678-HpCDD	2.15e5	2.06e5	4.21e5	40.75	1.000	1.05	NO	50.633	0.228	1.018	1.3	2.66e6	3887	683.6	2.59e6	3836	676.2	bb
7	OCDD	3.16e5	3.45e5	6.61e5	45.18	1.000	0.91	NO	102.766	0.418	1.023	2.8	2.90e6	3880	747.4	3.26e6	4003	814.2	bd
8	2378-TCDF	1.08e5	1.43e5	2.52e5	31.22	1.000	0.76	NO	9.474	0.0240	0.932	-5.3	1.89e6	1768	1066.8	2.46e6	1878	1310.1	bb
9	12378-PeCDF	6.37e5	4.08e5	1.05e6	33.72	1.000	1.56	NO	49.628	0.0714	0.927	-0.7	1.47e7	4371	3358.8	9.41e6	6908	1362.1	bd
10	23478-PeCDF	6.75e5	4.40e5	1.11e6	34.35	1.019	1.53	NO	54.036	0.0730	0.988	8.1	1.58e7	4371	3619.0	1.01e7	6908	1458.2	bb
11	123478-HxCDF	4.53e5	3.68e5	8.21e5	36.49	0.998	1.23	NO	49.365	0.164	0.897	-1.3	8.91e6	7660	1163.0	7.35e6	7878	933.3	bd
12	123678-HxCDF	5.29e5	4.29e5	9.57e5	36.60	1.001	1.23	NO	49.459	0.141	1.046	-1.1	9.41e6	7660	1228.3	7.62e6	7878	967.3	db
13	234678-HxCDF	4.67e5	3.85e5	8.51e5	37.10	1.014	1.21	NO	48.671	0.156	0.930	-2.7	8.57e6	7660	1119.3	7.00e6	7878	888.5	bb
14	123789-HxCDF	3.97e5	3.15e5	7.13e5	37.91	1.036	1.26	NO	49.194	0.189	0.779	-1.6	6.16e6	7660	803.8	4.93e6	7878	625.3	bd
15	1234678-HpCDF	3.63e5	3.48e5	7.11e5	39.45	1.000	1.04	NO	49.475	0.139	1.263	-1.1	5.37e6	5445	986.1	5.04e6	4214	1196.8	bb
16	1234789-HpCDF	2.68e5	2.61e5	5.29e5	41.45	1.051	1.03	NO	50.540	0.191	0.940	1.1	3.16e6	5445	580.9	3.17e6	4214	753.3	bd
17	OCDF	3.82e5	4.17e5	7.99e5	45.51	1.008	0.91	NO	100.344	0.293	1.237	0.3	3.47e6	3060	1135.5	3.81e6	3795	1003.0	bd
18	13C-2378-TCDD	7.07e5	8.99e5	1.61e6	31.75	1.013	0.79	NO	92.220	0.0420	1.033	-7.8	1.52e7	2633	5757.7	1.90e7	2020	9404.6	bb
19	13C-12378-PeCDD	8.10e5	5.15e5	1.32e6	34.54	1.102	1.57	NO	89.645	0.0798	0.852	-10.4	1.72e7	5302	3241.5	1.12e7	2203	5075.3	bb
20	13C-123678-HxCDD	6.89e5	5.64e5	1.25e6	37.31	0.993	1.22	NO	102.842	0.149	1.143	2.8	1.20e7	4346	2769.0	9.56e6	5311	1800.9	db
21	13C-1234678-HpCDD	4.23e5	4.03e5	8.27e5	40.74	1.085	1.05	NO	94.237	0.165	0.754	-5.8	5.18e6	4327	1196.7	4.82e6	3383	1426.1	bd
22	13C-OCDD	6.14e5	6.79e5	1.29e6	45.16	1.202	0.90	NO	176.455	0.183	0.590	-11.8	5.40e6	3147	1716.5	6.10e6	4008	1521.7	bd
23	13C-2378-TCDF	1.20e6	1.50e6	2.70e6	31.21	0.996	0.80	NO	95.321	0.0200	1.736	-4.7	2.05e7	1735	11824.7	2.63e7	1878	14006.0	bd
24	13C-12378-PeCDF	1.37e6	8.80e5	2.26e6	33.71	1.076	1.56	NO	85.657	0.0993	1.450	-14.3	3.09e7	8855	3491.0	2.01e7	7791	2580.5	bd
25	13C-123678-HxCDF	6.12e5	1.22e6	1.83e6	36.58	0.974	0.50	NO	102.442	0.148	1.670	2.4	1.05e7	5093	2052.0	2.05e7	8983	2284.9	db
26	13C-1234678-HpCDF	3.44e5	7.81e5	1.12e6	39.44	1.050	0.44	NO	94.981	0.174	1.027	-5.0	4.99e6	4780	1043.3	1.10e7	6202	1765.5	bd
27	13C-1234-TCDD	6.88e5	8.67e5	1.56e6	31.34	0.000	0.79	NO	100.000	0.0470	1.000	0.0	1.31e7	2633	4992.8	1.68e7	2020	8329.4	bb
28	13C-123789-HxCDD	6.11e5	4.85e5	1.10e6	37.56	0.000	1.26	NO	100.000	0.165	1.000	0.0	9.77e6	4346	2248.8	7.59e6	5311	1429.7	bb
29	37Cl-2378-TCDD (SS)	1.80e5		1.80e5	31.76	1.000			10.619	0.0158	1.119	6.2	3.83e6	1915	1998.1				bb
30	13C-23478-PeCDF (SS)	1.41e6	8.98e5	2.31e6	34.34	1.019	1.57	NO	109.693	0.106	1.024	9.7	3.23e7	8855	3649.7	2.07e7	7791	2660.2	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
31	13C-123478-HxCDF (SS)	4.85e5	9.47e5	1.43e6	36.48	0.997	0.51	NO	96.607	0.167	0.782	-3.4	9.70e6	5093	1904.4	1.88e7	8983	2095.4	bd
32	13C-123478-HxCDD (SS)	5.96e5	4.43e5	1.04e6	37.22	0.998	1.34	NO	96.381	0.154	0.830	-3.6	1.15e7	4346	2643.3	8.81e6	5311	1659.7	bd
33	13C-1234789-HpCDF (SS)	2.50e5	5.64e5	8.14e5	41.44	1.051	0.44	NO	95.723	0.267	0.724	-4.3	3.07e6	4780	641.4	6.72e6	6202	1083.4	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

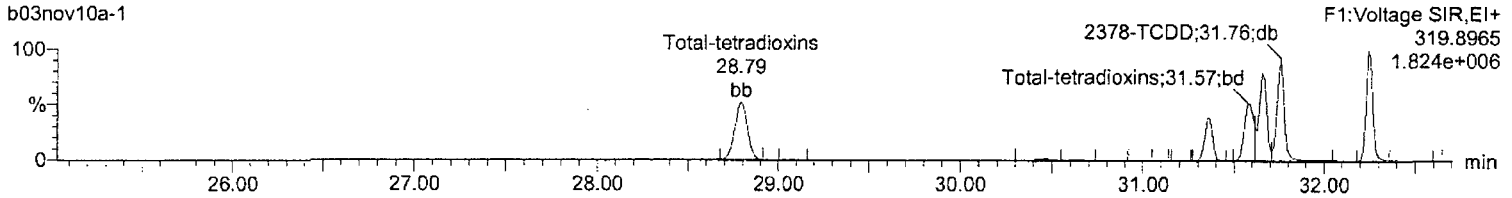
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

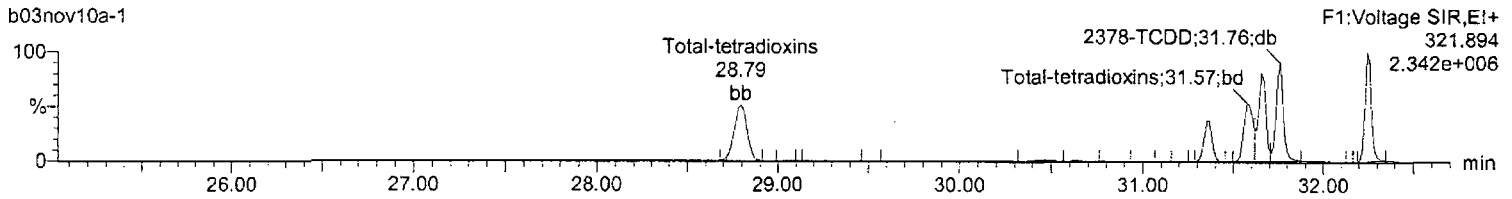
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

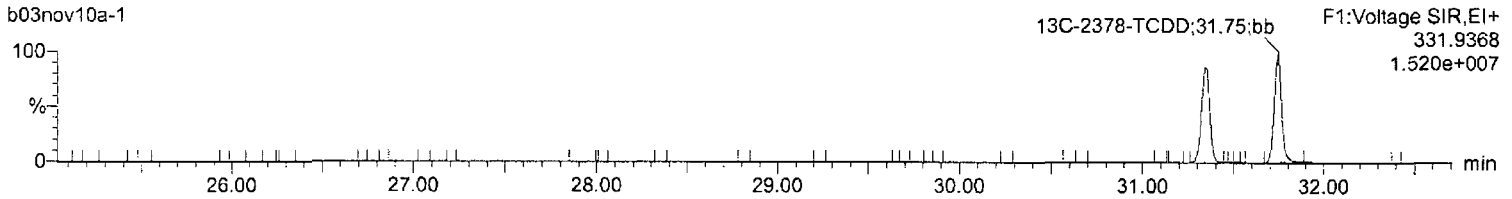
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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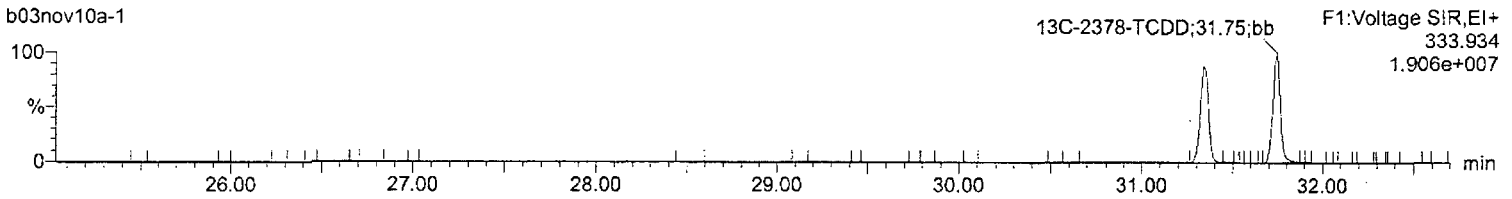
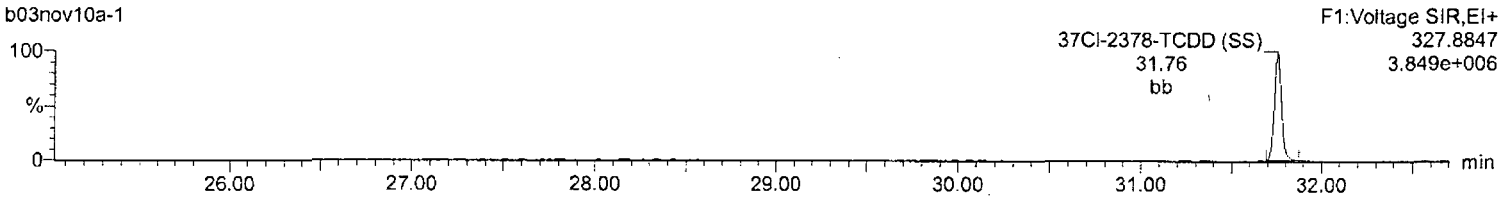
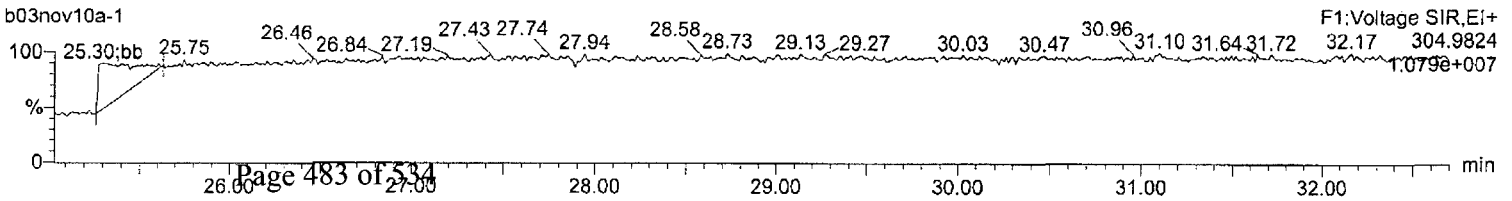


37Cl-2378-TCDD (SS)



Lock Mass F1



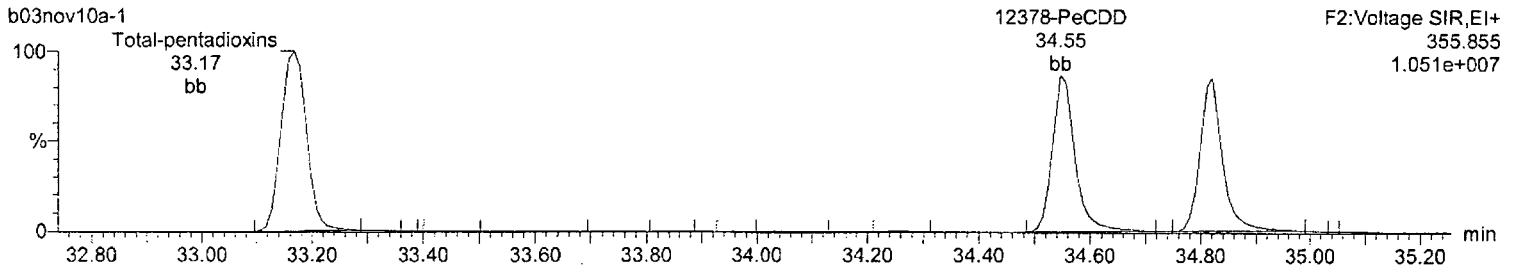
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

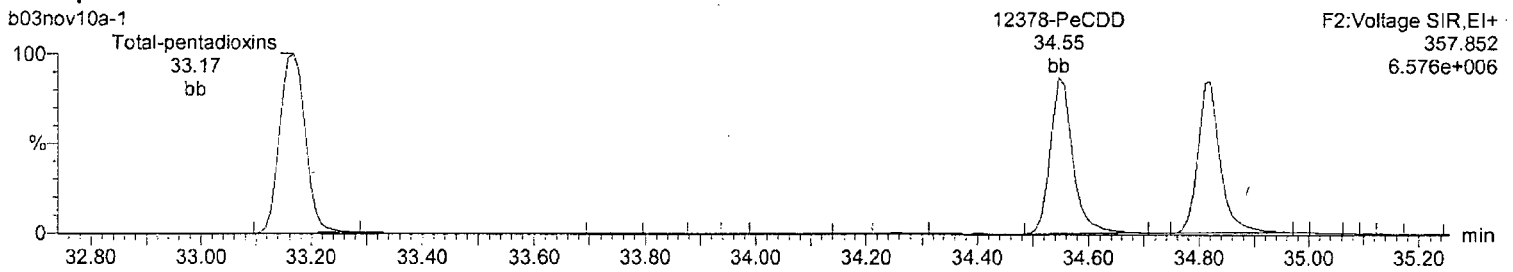
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

Total-pentadioxins



Total-pentadioxins



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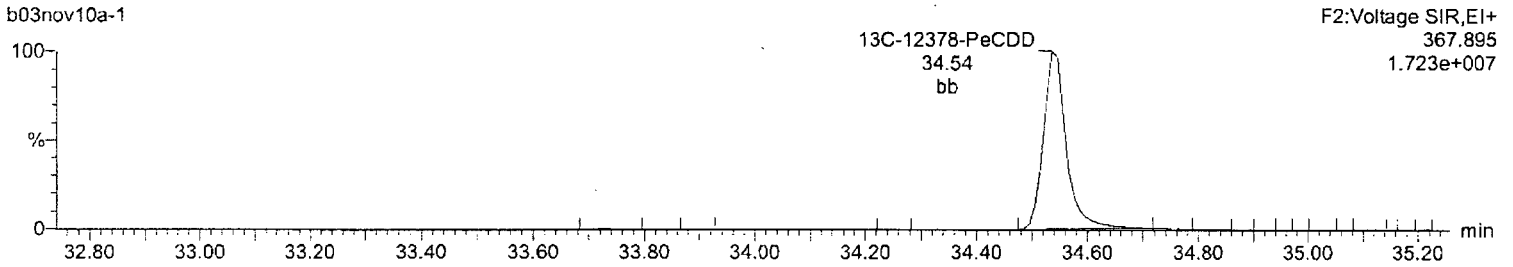

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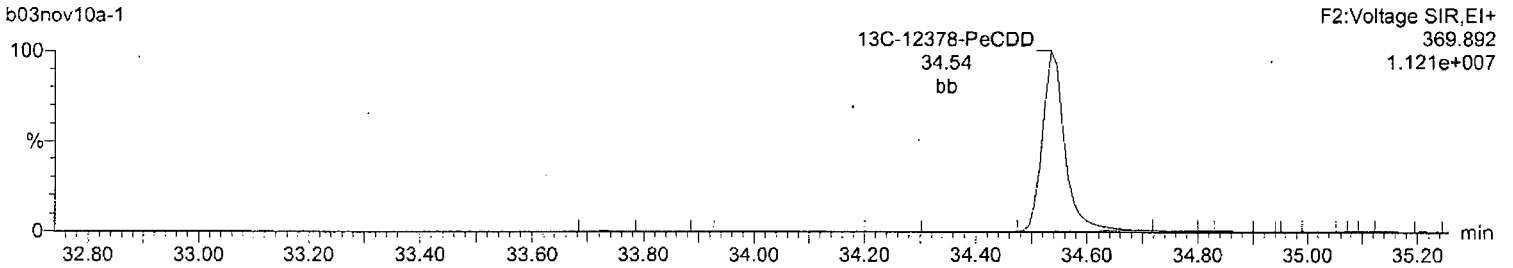
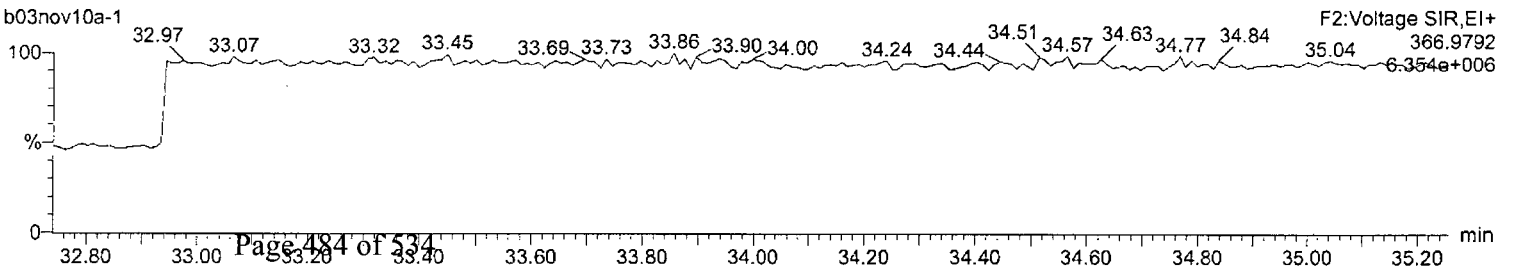


Lock Mass F2



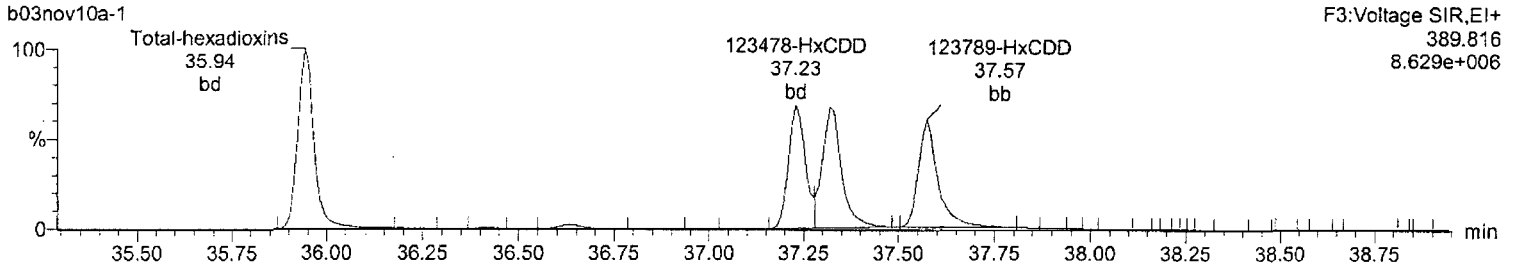
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

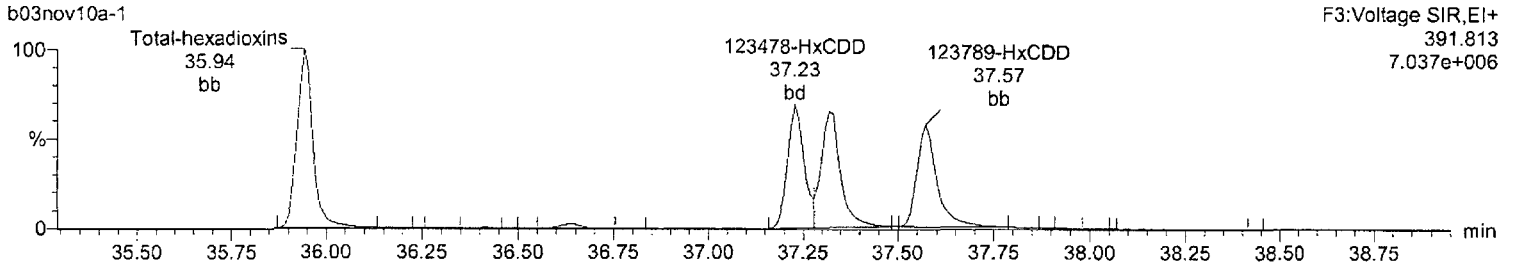
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

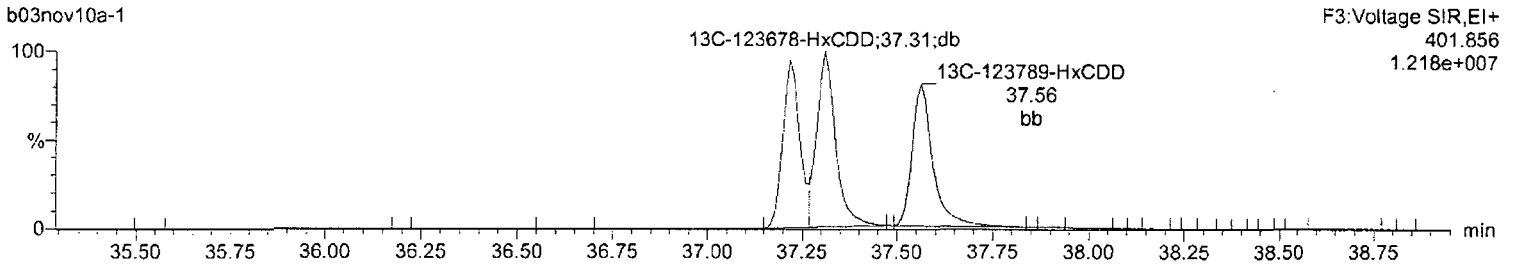
Total-hexadioxins



Total-hexadioxins



13C-123678-HxCDD



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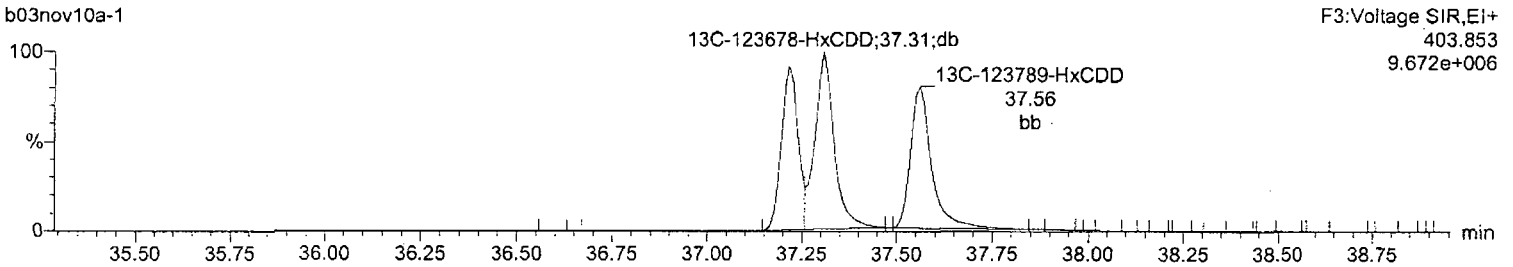
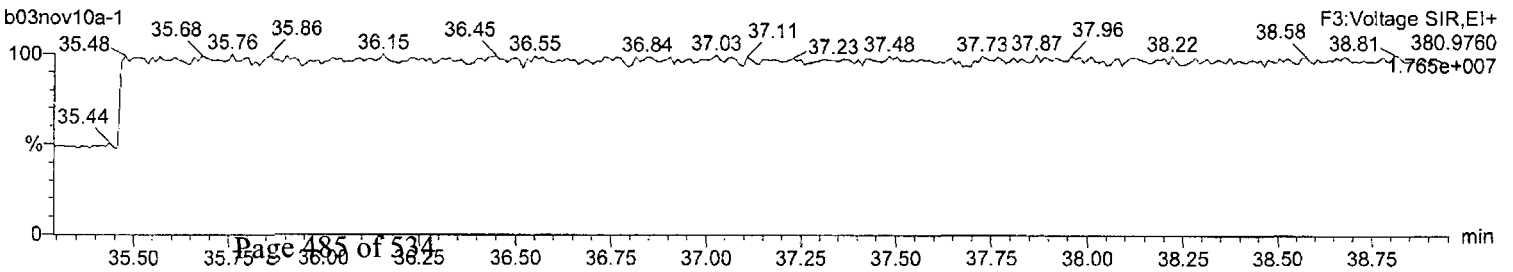


Lock Mass F3



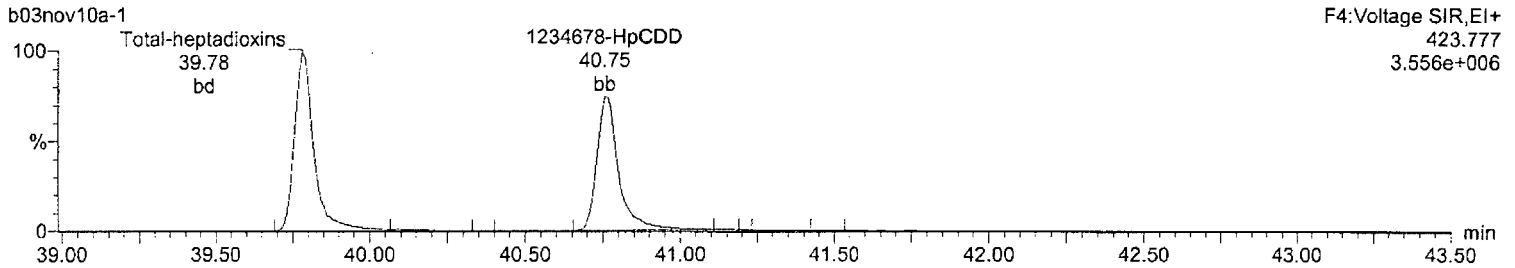
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

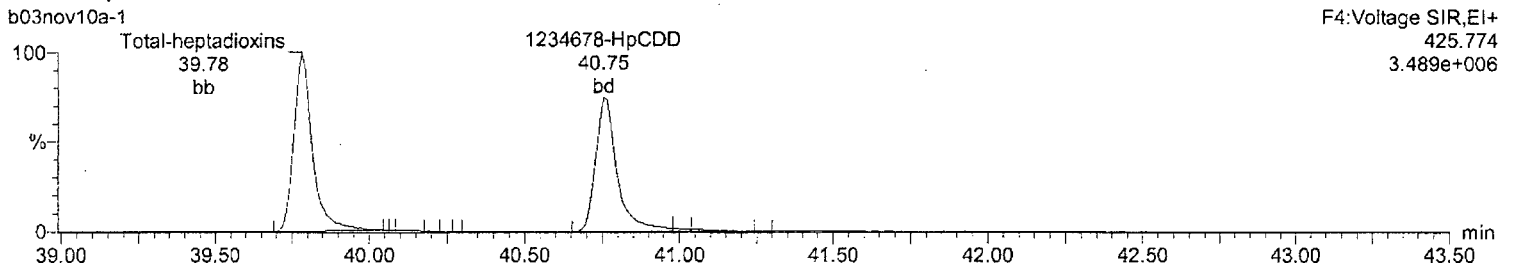
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

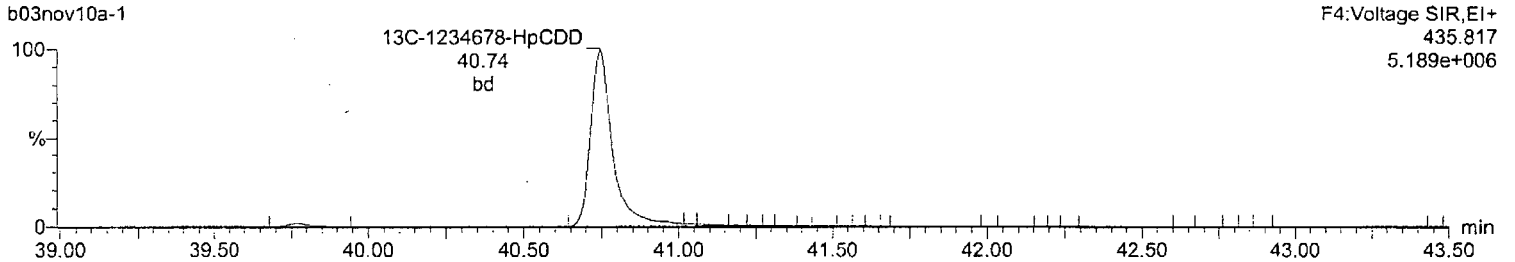
Total-heptadioxins



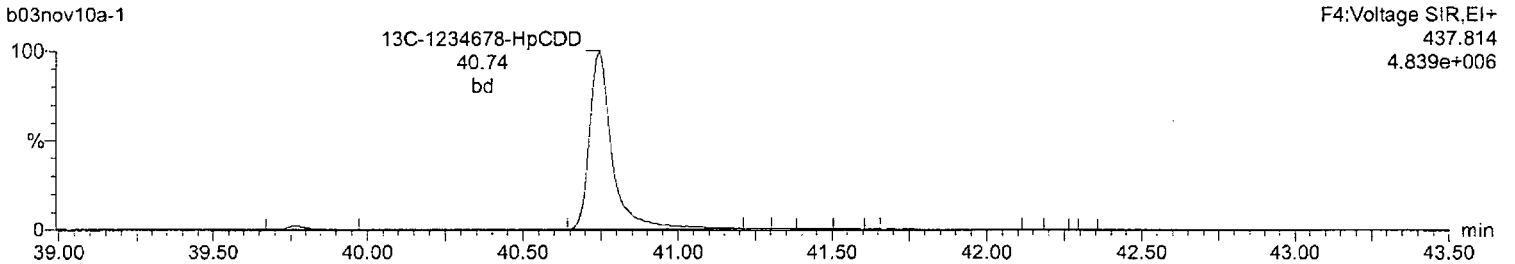
Total-heptadioxins



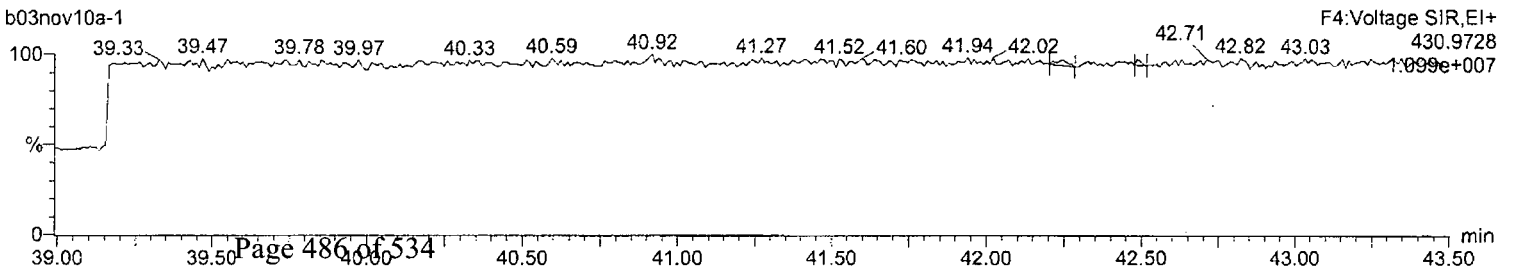
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



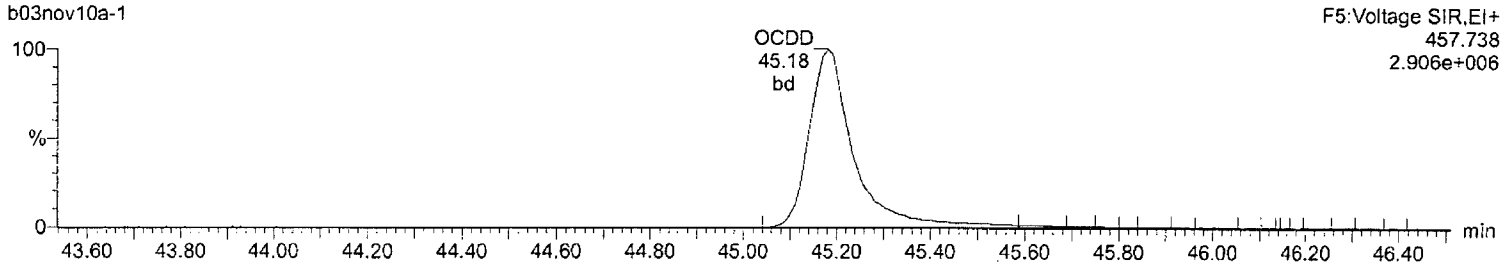
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

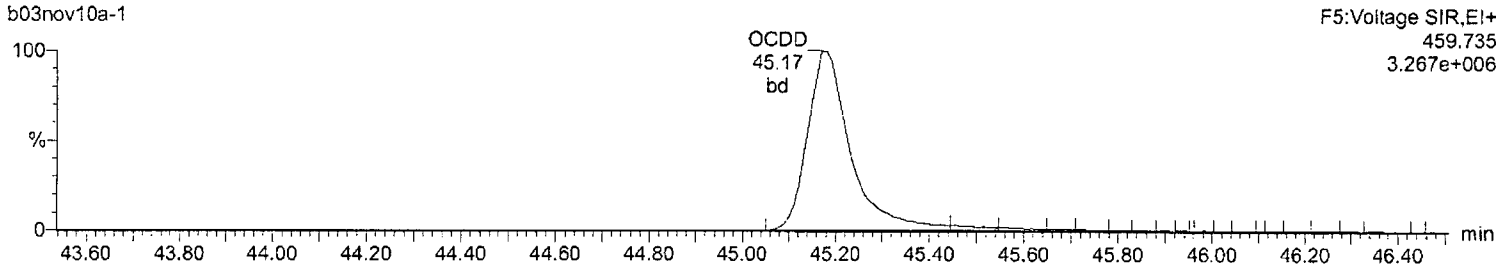
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

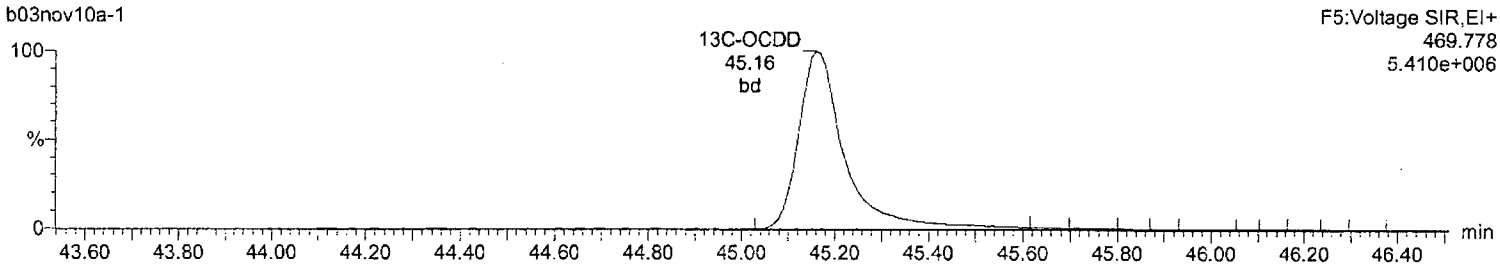
OCDD



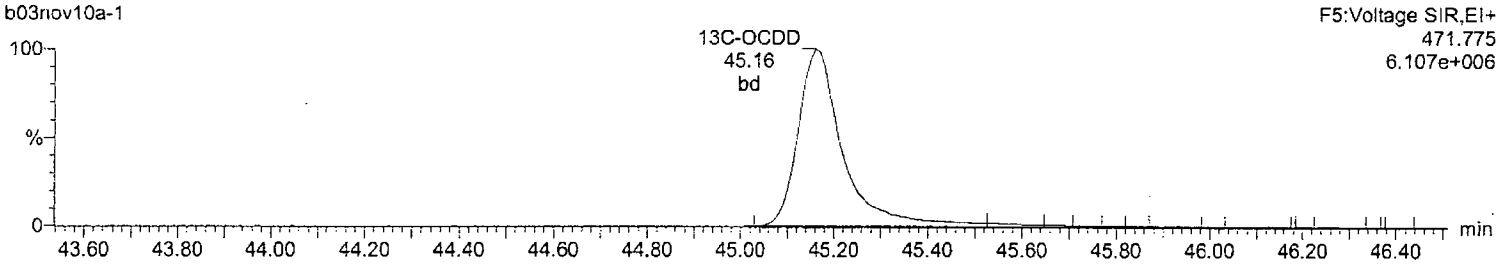
OCDD



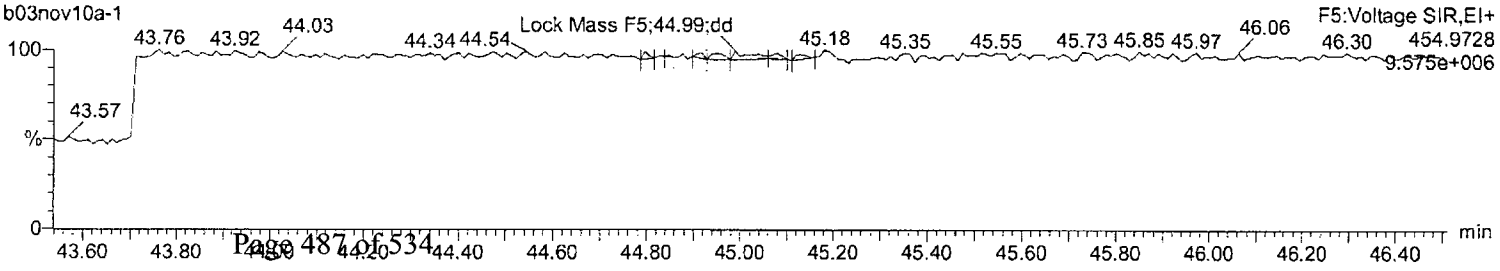
13C-OCDD



13C-OCDD



Lock Mass F5



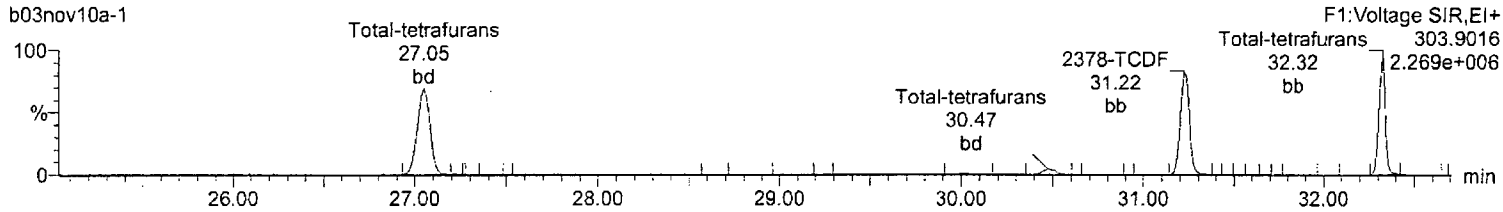
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

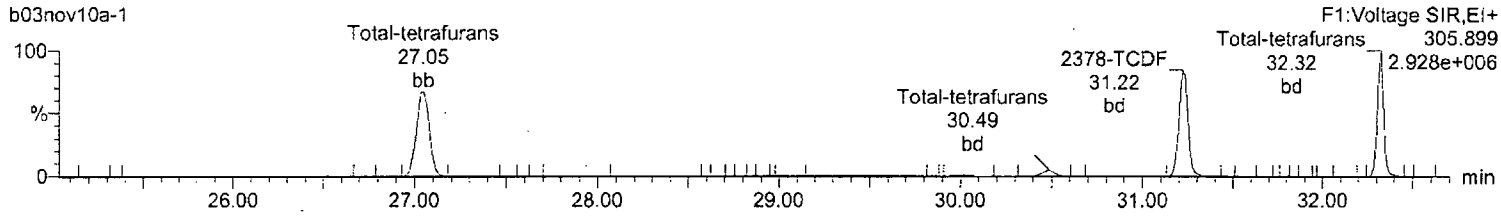
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

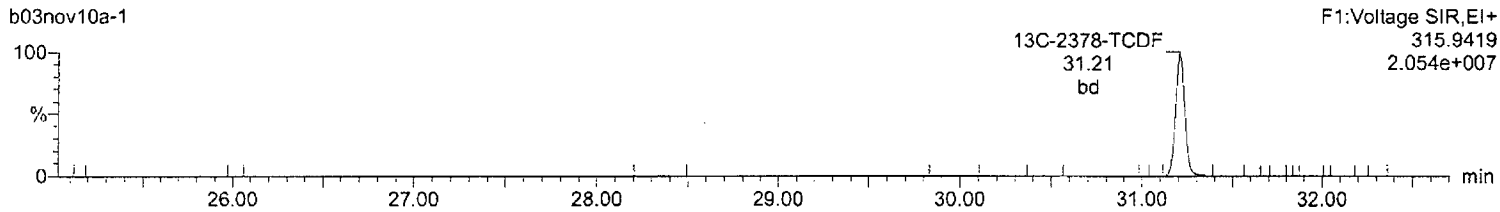
Total-tetrafurans



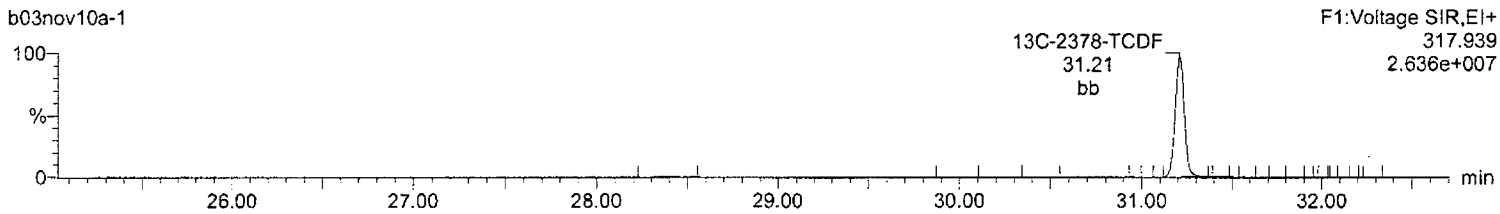
Total-tetrafurans



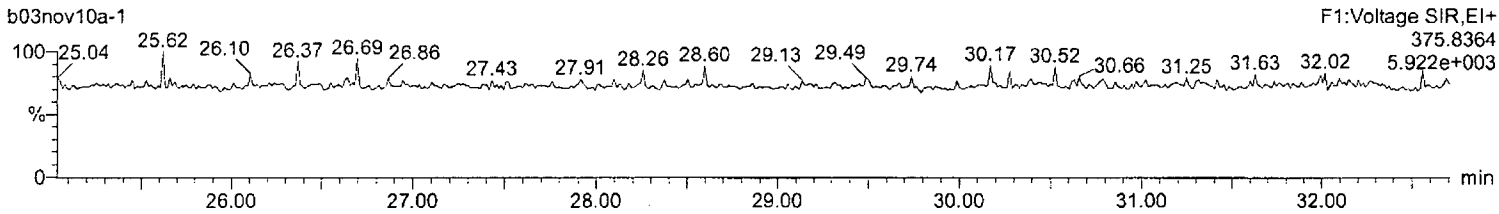
13C-2378-TCDF



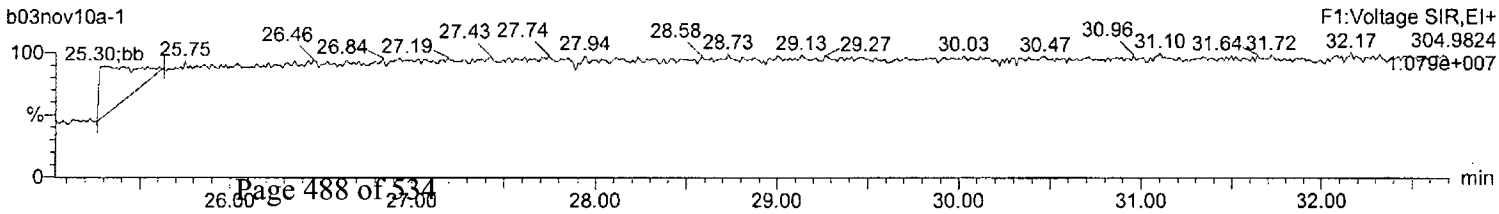
13C-2378-TCDF



HxDPE



Lock Mass F1



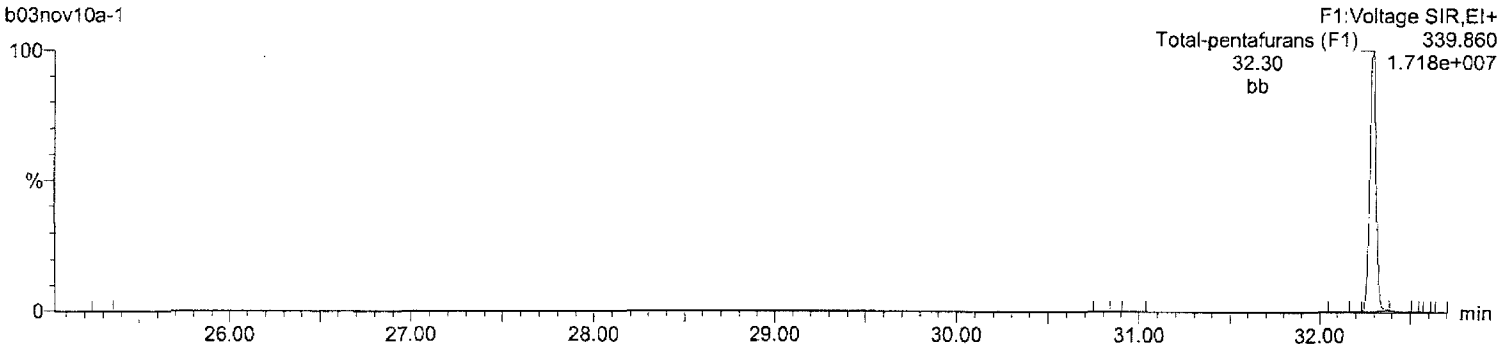
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

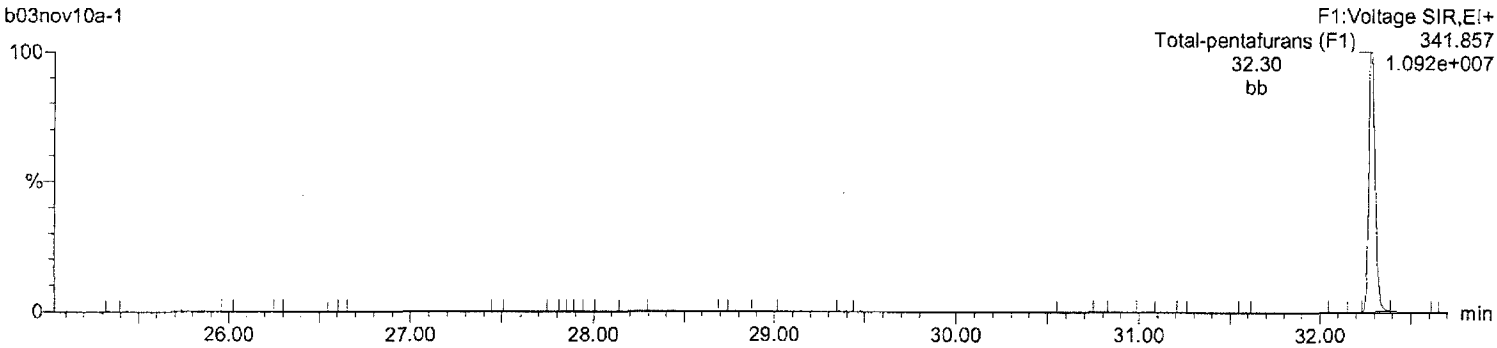
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

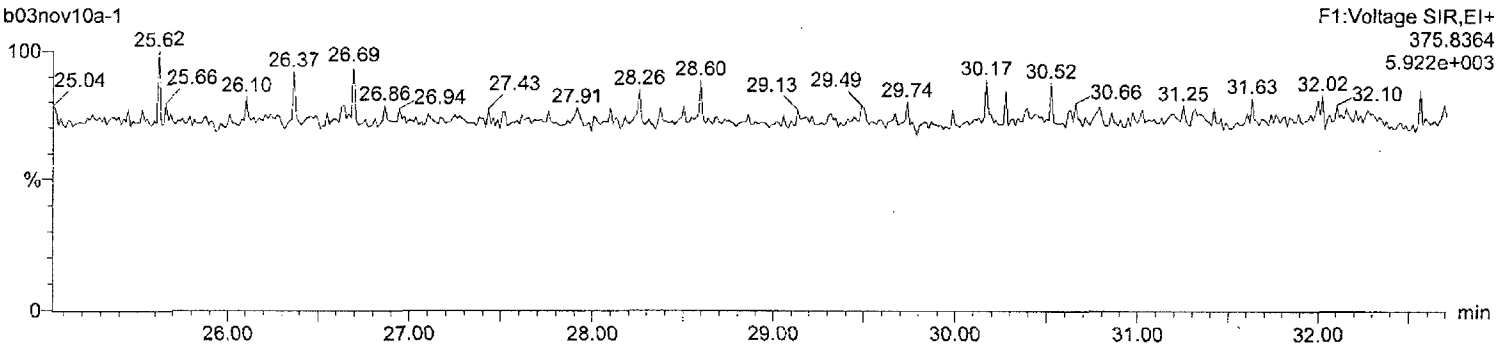
Total-pentafurans (F1)



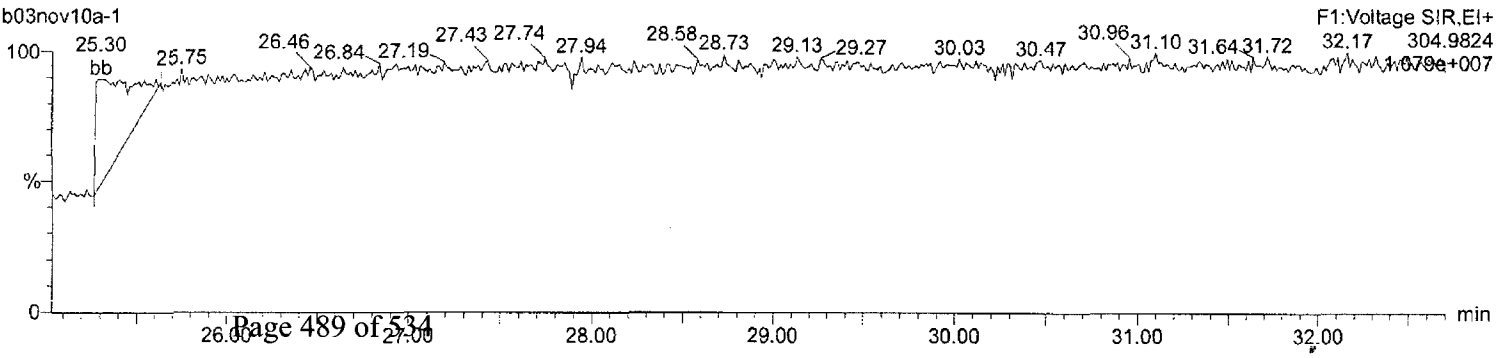
Total-pentafurans (F1)



HxDPE



Lock Mass F1



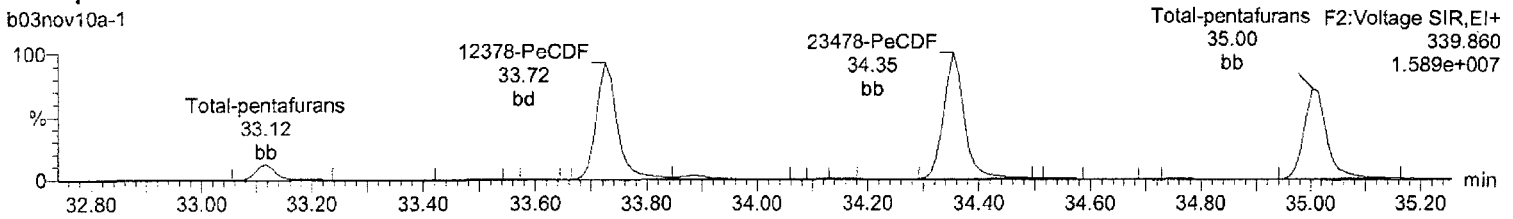
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

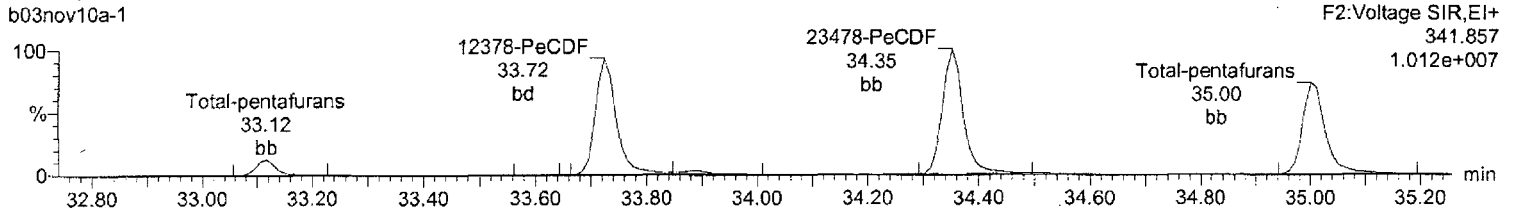
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

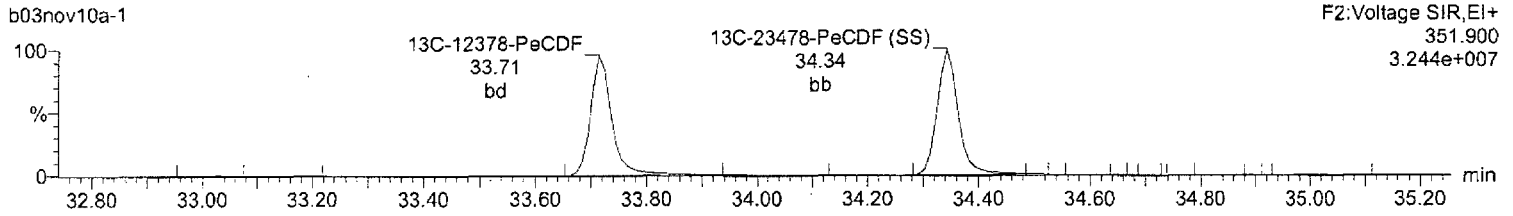
Total-pentafurans



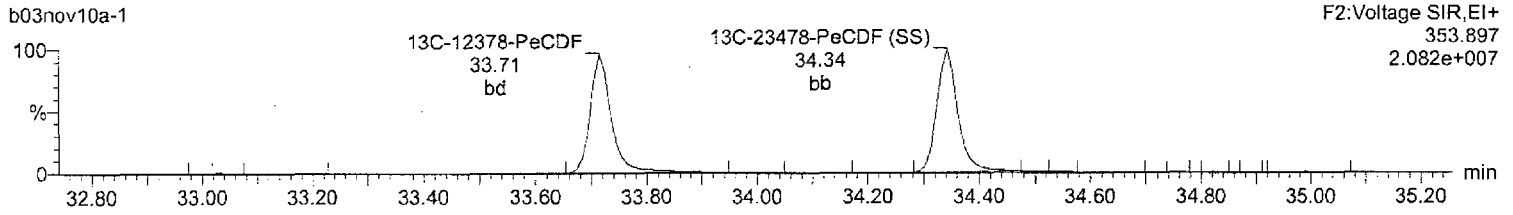
Total-pentafurans



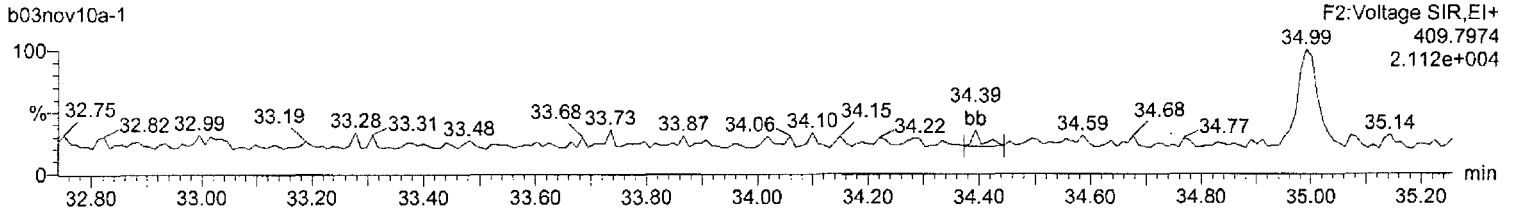
13C-12378-PeCDF



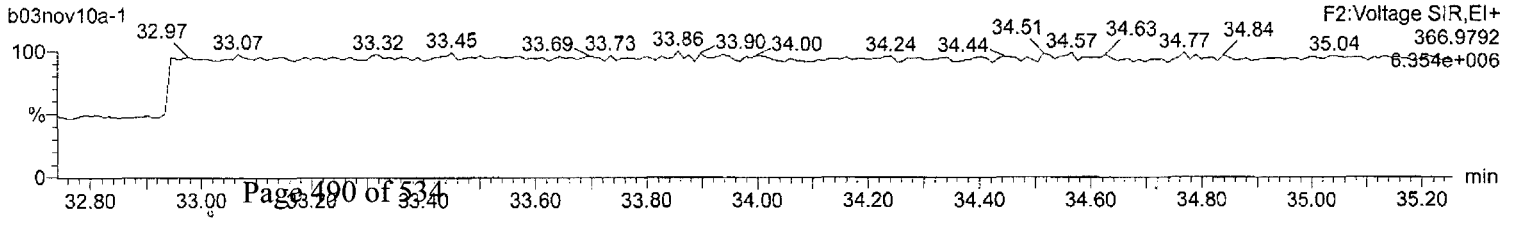
13C-12378-PeCDF



HpDPE



Lock Mass F2



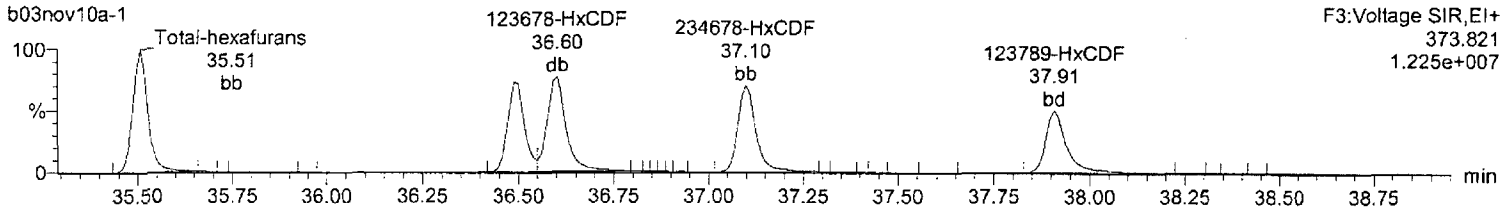
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

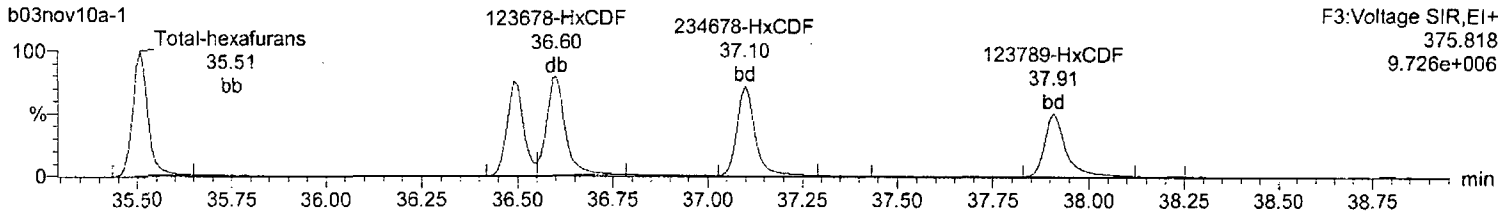
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

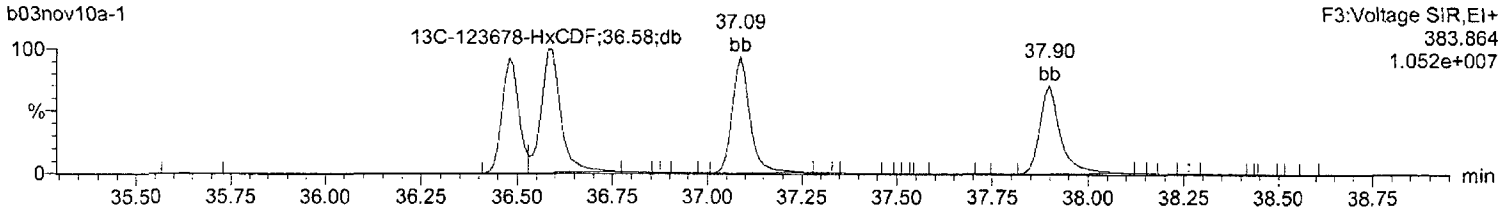
Total-hexafurans



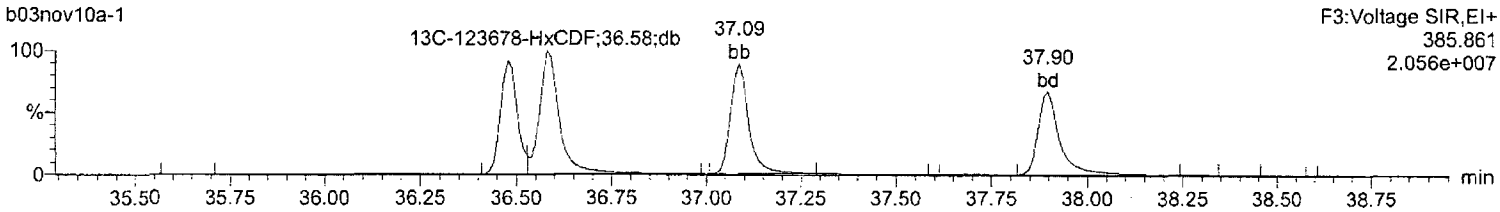
Total-hexafurans



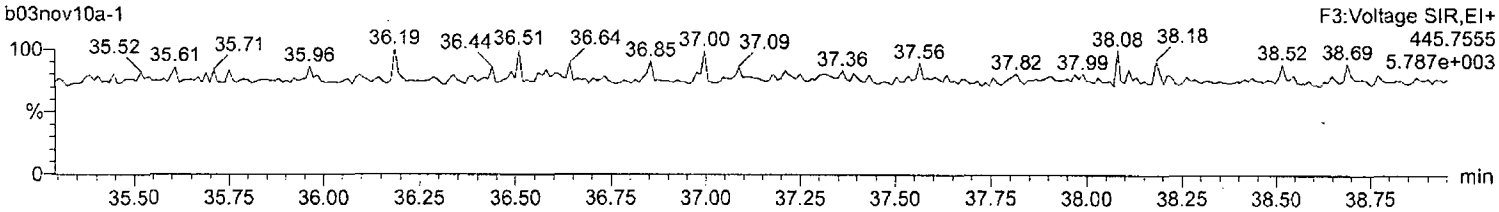
13C-123678-HxCDF



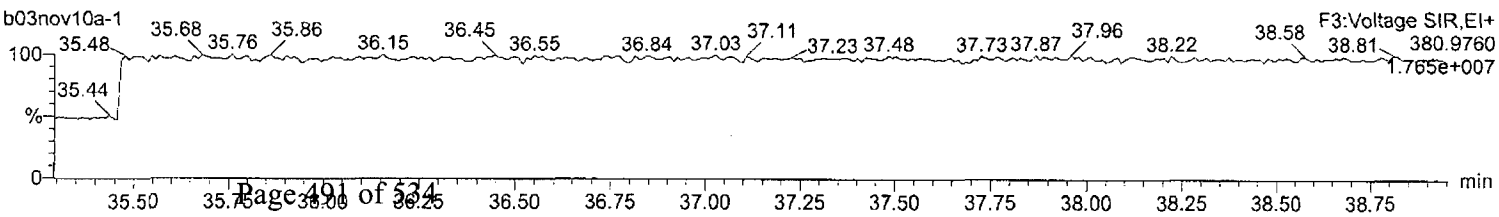
13C-123678-HxCDF



OcDPE



Lock Mass F3



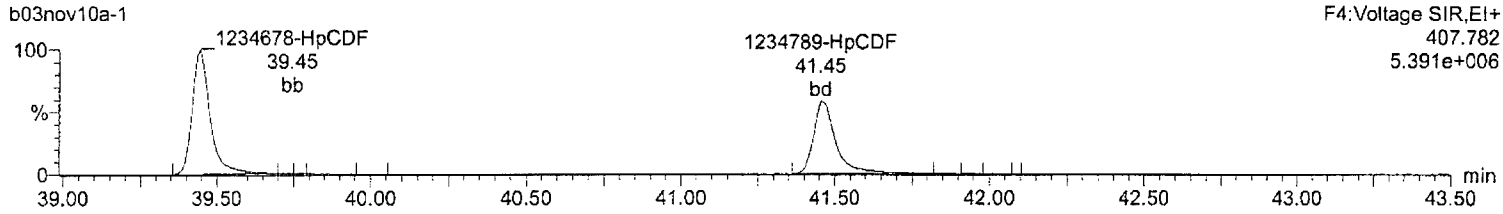
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

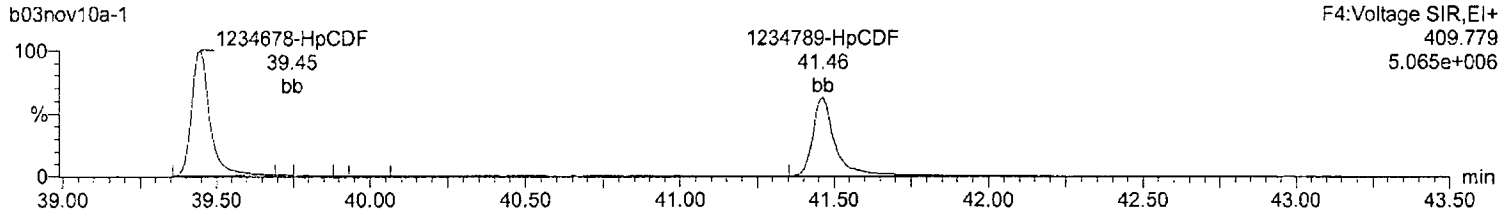
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

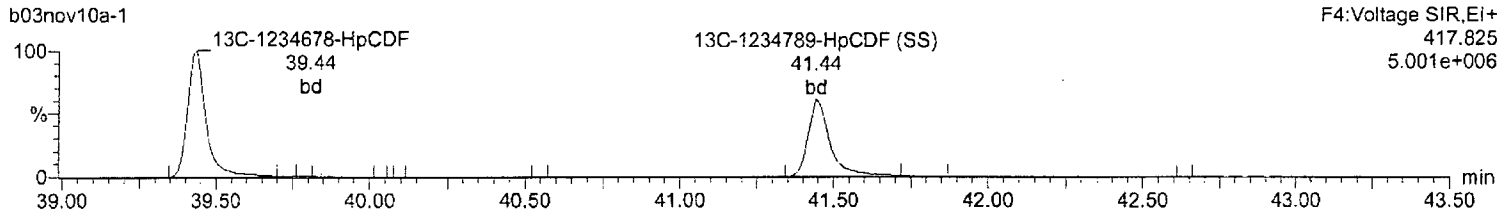
Total-heptafurans



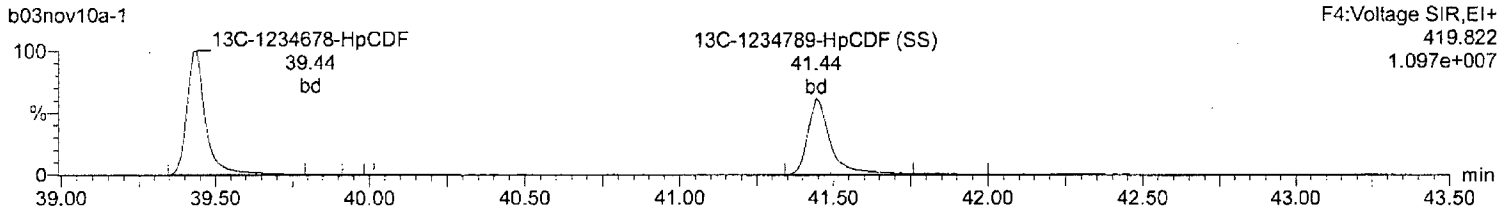
Total-heptafurans



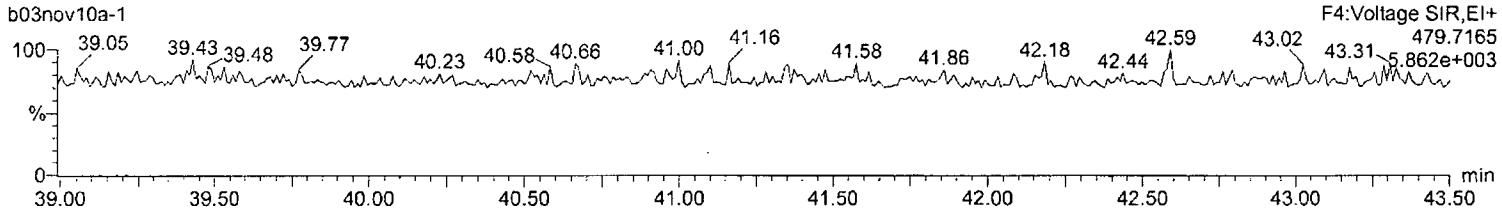
13C-1234678-HpCDF



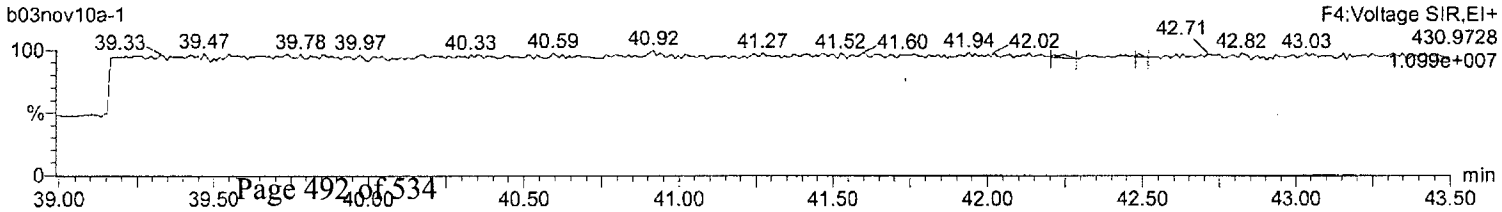
13C-1234678-HpCDF



NoDPE



Lock Mass F4



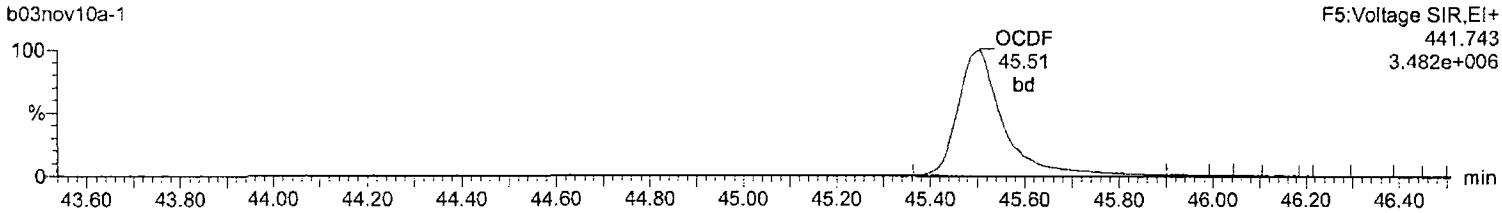
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-1.qld

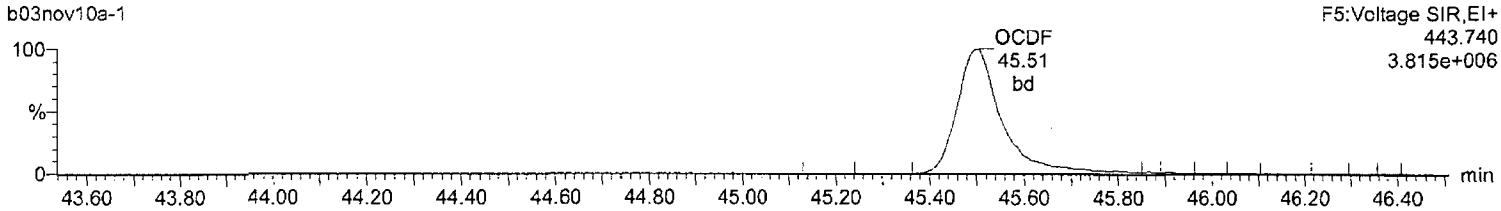
Last Altered: Wednesday, November 03, 2010 15:14:58 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:18:22 Eastern Standard Time

Name: b03nov10a-1, Date: 03-Nov-2010, Time: 08:32:18, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

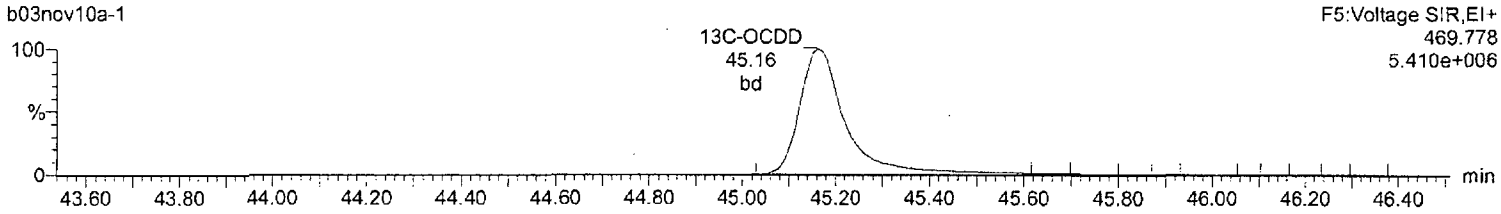
OCDF



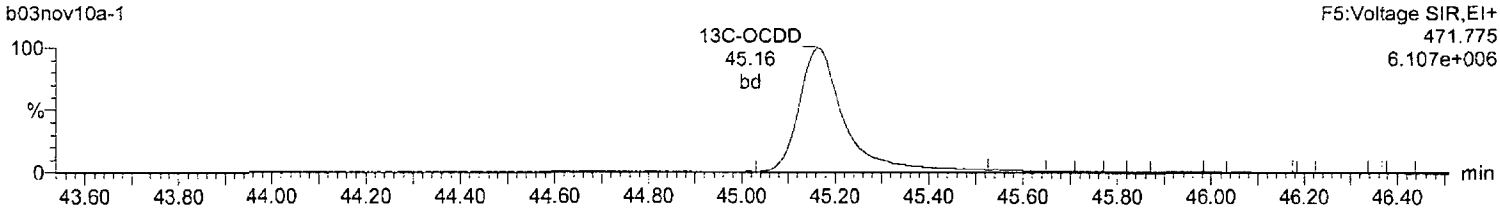
OCDF



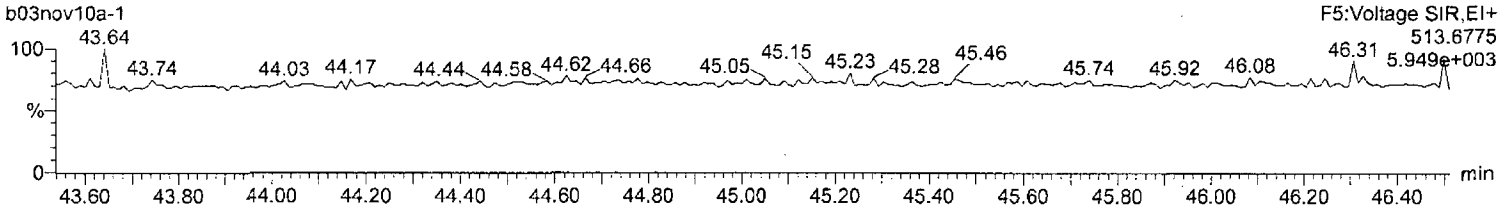
13C-OCDD



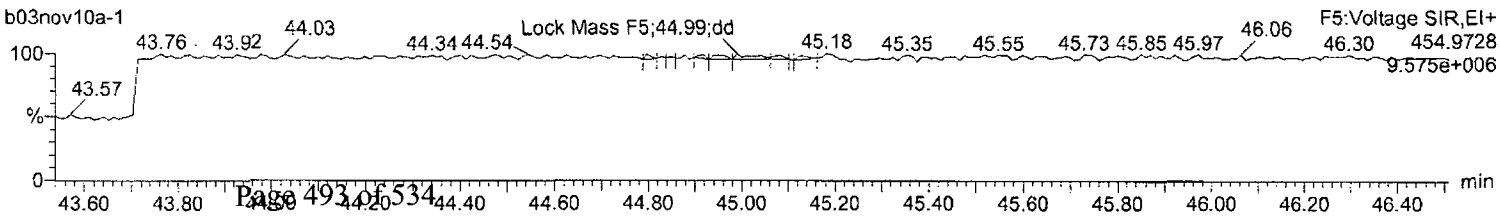
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.21e4	1.18e5	2.10e5	31.75	1.000	0.78	NO	10.712	0.0183	1.085	7.1	1.97e6	1302	1512.0	2.48e6	1161	2134.7	db
2	12378-PeCDD	5.28e5	3.34e5	8.62e5	34.54	1.000	1.58	NO	50.625	0.0592	1.045	1.2	1.20e7	3733	3215.2	7.59e6	4154	1827.9	bb
3	123478-HxCDD	4.08e5	3.28e5	7.36e5	37.22	0.998	1.25	NO	50.824	0.115	0.911	1.6	8.10e6	4900	1653.1	6.46e6	4971	1299.0	bd
4	123678-HxCDD	4.41e5	3.60e5	8.01e5	37.31	1.000	1.22	NO	51.244	0.106	0.992	2.5	7.73e6	4900	1578.3	6.23e6	4971	1253.8	db
5	123789-HxCDD	4.07e5	3.35e5	7.42e5	37.56	1.007	1.22	NO	53.072	0.119	0.919	6.1	6.88e6	4900	1403.6	5.64e6	4971	1134.1	bb
6	1234678-HpCDD	3.06e5	2.86e5	5.93e5	40.74	1.000	1.07	NO	51.619	0.140	1.037	3.2	4.24e6	3721	1140.2	3.93e6	3415	1151.1	bd
7	OCDD	4.39e5	5.15e5	9.54e5	45.16	1.000	0.85	NO	102.095	0.204	1.017	2.1	4.53e6	2900	1562.7	5.03e6	3384	1485.4	bb
8	2378-TCDF	1.33e5	1.68e5	3.01e5	31.21	1.000	0.79	NO	9.651	0.0214	0.949	-3.5	2.37e6	2012	1178.5	2.84e6	1881	1507.8	bb
9	12378-PeCDF	8.05e5	5.20e5	1.33e6	33.71	1.000	1.55	NO	51.082	0.0683	0.954	2.2	1.94e7	7871	2464.7	1.25e7	6305	1978.7	bd
10	23478-PeCDF	8.11e5	5.20e5	1.33e6	34.34	1.019	1.56	NO	52.420	0.0698	0.959	4.8	1.88e7	7871	2393.1	1.21e7	6305	1911.3	bb
11	123478-HxCDF	5.94e5	4.82e5	1.08e6	36.48	0.998	1.23	NO	52.586	0.130	0.956	5.2	1.21e7	8351	1443.7	9.95e6	7742	1284.7	bd
12	123678-HxCDF	6.54e5	5.36e5	1.19e6	36.58	1.000	1.22	NO	50.021	0.112	1.058	0.0	1.23e7	8351	1472.8	9.97e6	7742	1288.1	db
13	234678-HxCDF	6.08e5	4.89e5	1.10e6	37.09	1.014	1.24	NO	51.021	0.123	0.975	2.0	1.17e7	8351	1397.9	9.44e6	7742	1219.4	bb
14	123789-HxCDF	5.21e5	4.19e5	9.40e5	37.90	1.036	1.24	NO	52.731	0.149	0.835	5.5	8.68e6	8351	1039.1	6.92e6	7742	894.5	bb
15	1234678-HpCDF	4.79e5	4.62e5	9.41e5	39.43	1.000	1.03	NO	50.342	0.101	1.285	0.7	7.58e6	4894	1548.2	7.33e6	4862	1507.3	bb
16	1234789-HpCDF	3.75e5	3.65e5	7.40e5	41.44	1.051	1.03	NO	54.341	0.139	1.011	8.7	4.59e6	4894	938.4	4.62e6	4862	949.3	bb
17	OCDF	5.27e5	6.05e5	1.13e6	45.49	1.007	0.87	NO	97.899	0.174	1.206	-2.1	5.24e6	2957	1772.6	5.81e6	3694	1572.5	bb
18	13C-2378-TCDD	8.51e5	1.08e6	1.93e6	31.73	1.013	0.79	NO	91.781	0.0383	1.028	-8.2	1.75e7	3081	5685.2	2.15e7	1902	11299.5	bb
19	13C-12378-PeCDD	1.01e6	6.38e5	1.65e6	34.53	1.102	1.59	NO	92.390	0.0584	0.878	-7.6	2.38e7	2808	8465.6	1.45e7	3641	3973.9	bb
20	13C-123678-HxCDD	9.04e5	7.11e5	1.62e6	37.30	0.994	1.27	NO	98.400	0.0992	1.094	-1.6	1.61e7	5747	2802.7	1.27e7	3430	3693.7	db
21	13C-1234678-HpCDD	5.88e5	5.54e5	1.14e6	40.72	1.085	1.06	NO	96.626	0.102	0.774	-3.4	7.82e6	3642	2146.3	7.43e6	3137	2370.0	bb
22	13C-OCDD	8.81e5	9.97e5	1.88e6	45.15	1.203	0.88	NO	190.264	0.169	0.636	-4.9	8.72e6	5071	1719.7	9.57e6	4347	2201.4	bd
23	13C-2378-TCDF	1.40e6	1.77e6	3.17e6	31.19	0.996	0.79	NO	92.569	0.0242	1.686	-7.4	2.45e7	2980	8226.0	3.09e7	2133	14483.8	bb
24	13C-12378-PeCDF	1.70e6	1.08e6	2.78e6	33.70	1.076	1.57	NO	87.232	0.0602	1.476	-12.8	4.07e7	5360	7599.9	2.58e7	6479	3986.1	bb
25	13C-123678-HxCDF	7.72e5	1.48e6	2.25e6	36.57	0.974	0.52	NO	93.489	0.102	1.524	-6.5	1.40e7	6743	2082.8	2.73e7	7081	3852.4	dd
26	13C-1234678-HpCDF	4.52e5	1.01e6	1.46e6	39.42	1.050	0.45	NO	91.740	0.0942	0.992	-8.3	6.97e6	4172	1671.5	1.59e7	4302	3704.4	bb
27	13C-1234-TCDD	8.34e5	1.05e6	1.88e6	31.33	0.000	0.80	NO	100.000	0.0429	1.000	0.0	1.55e7	3081	5020.2	1.93e7	1902	10147.7	bb
28	13C-123789-HxCDD	8.22e5	6.55e5	1.48e6	37.54	0.000	1.25	NO	100.000	0.110	1.000	0.0	1.39e7	5747	2417.0	1.13e7	3430	3300.7	bb
29	37Cl-2378-TCDD (SS)	2.13e5		2.13e5	31.75	1.000			10.462	0.0110	1.103	4.6	4.47e6	1534	2912.6				bb
30	13C-23478-PeCDF (SS)	1.71e6	1.08e6	2.79e6	34.33	1.019	1.58	NO	107.759	0.0571	1.006	7.8	4.00e7	5360	7470.7	2.46e7	6479	3803.3	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	6.62e5	1.28e6	1.94e6	36.47	0.997	0.52	NO	106.564	0.125	0.863	6.6	1.36e7	6743	2023.4	2.60e7	7081	3667.0	bd
13C-123478-HxCDD (SS)	7.88e5	6.16e5	1.40e6	37.21	0.998	1.28	NO	100.965	0.111	0.869	1.0	1.52e7	5747	2643.2	1.18e7	3430	3453.1	bd
13C-1234789-HpCDF (SS)	3.54e5	7.72e5	1.13e6	41.43	1.051	0.46	NO	101.660	0.149	0.769	1.7	4.42e6	4172	1060.2	9.89e6	4302	2297.9	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

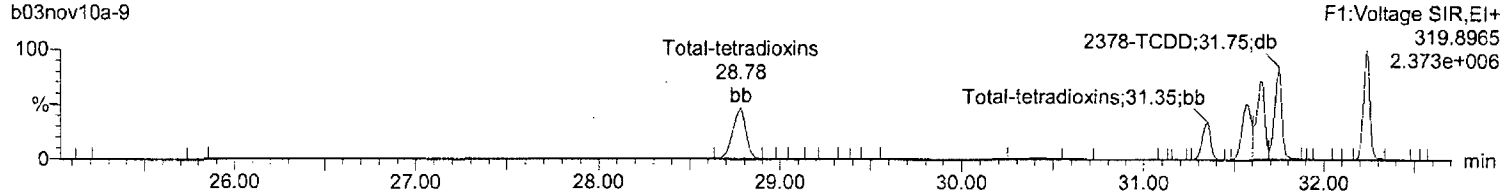
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

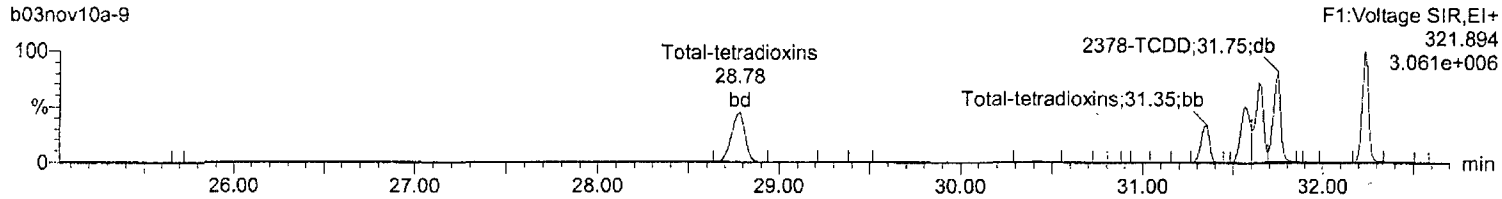
Method: C:\MassLynx\DEFAULT.PRO\MethDB\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

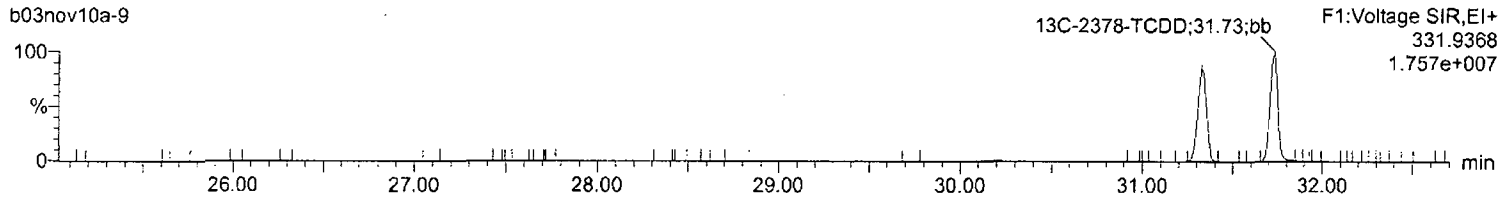
Total-tetradioxins



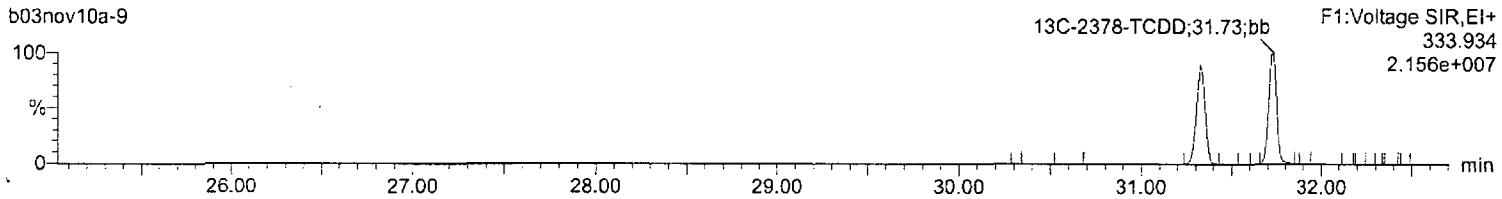
Total-tetradioxins



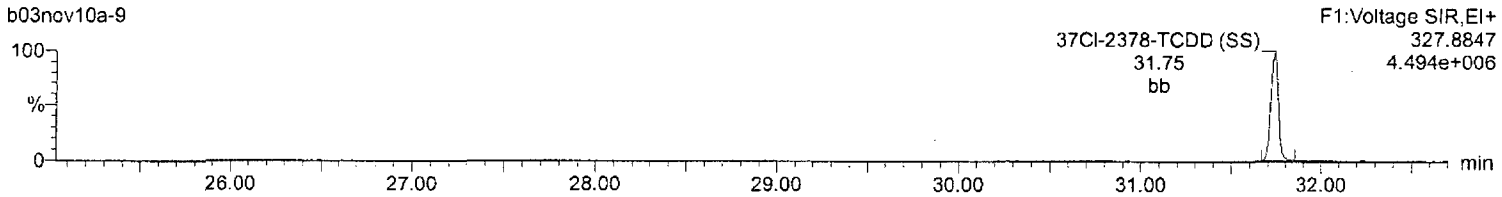
13C-2378-TCDD



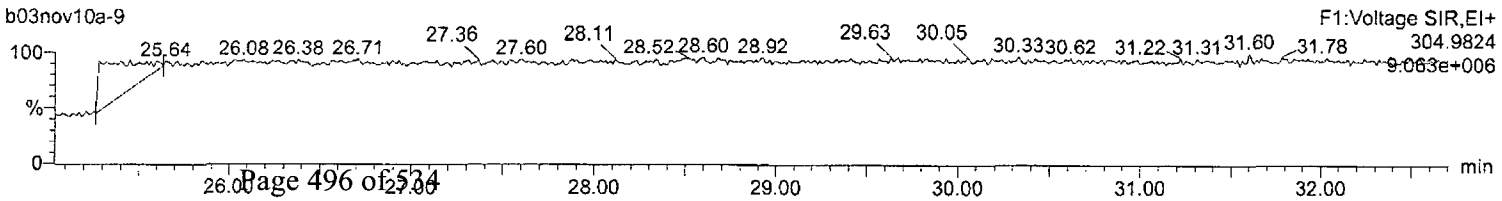
13C-2378-TCDD



37Cl-2378-TCDD (SS)



Lock Mass F1



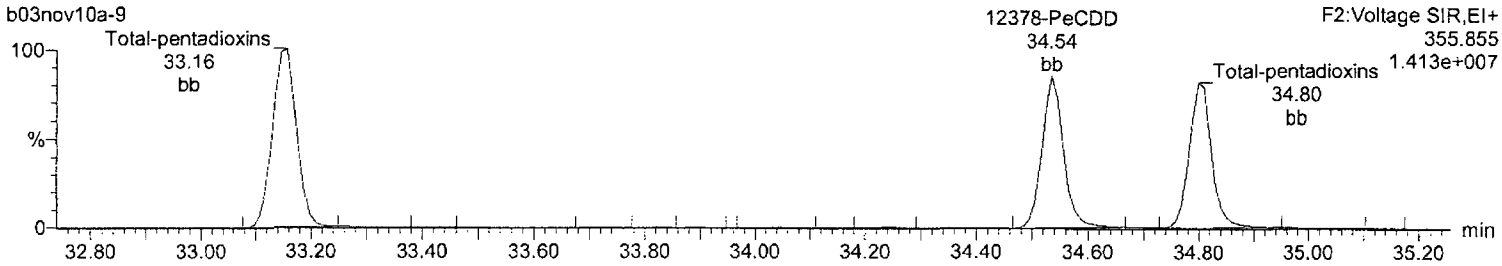
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

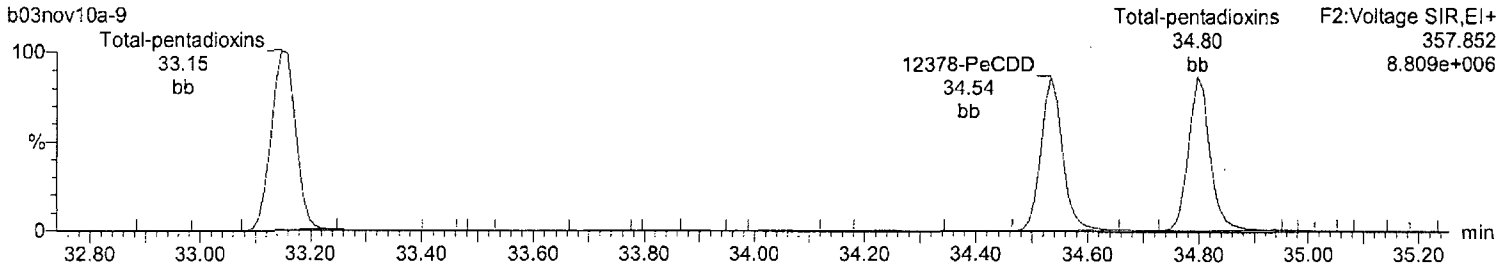
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

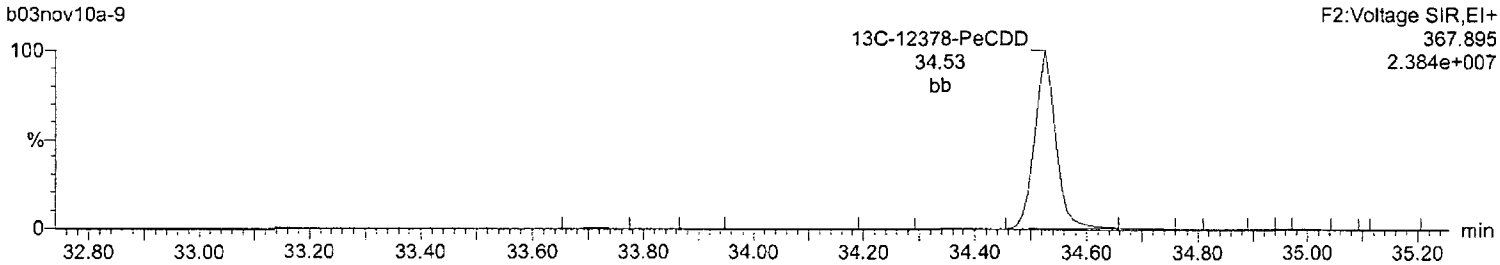
Total-pentadioxins



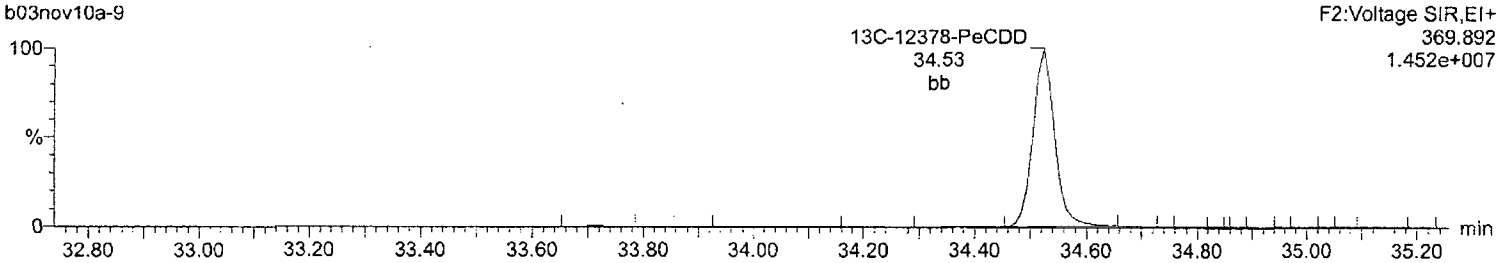
Total-pentadioxins



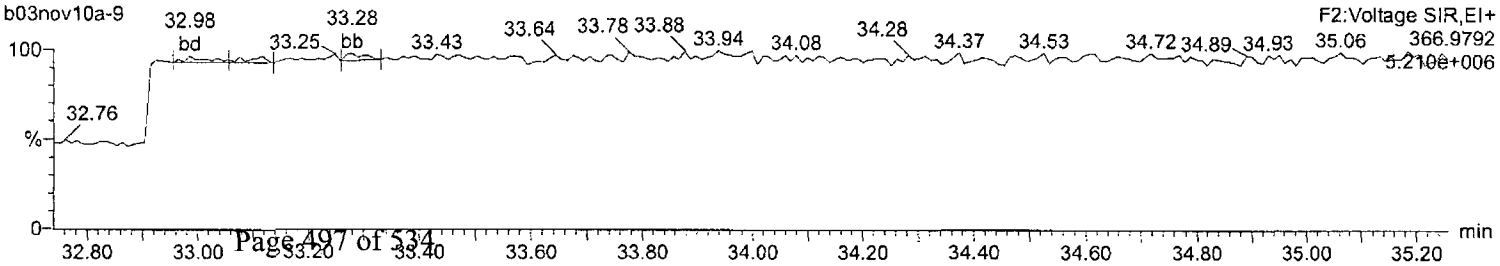
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



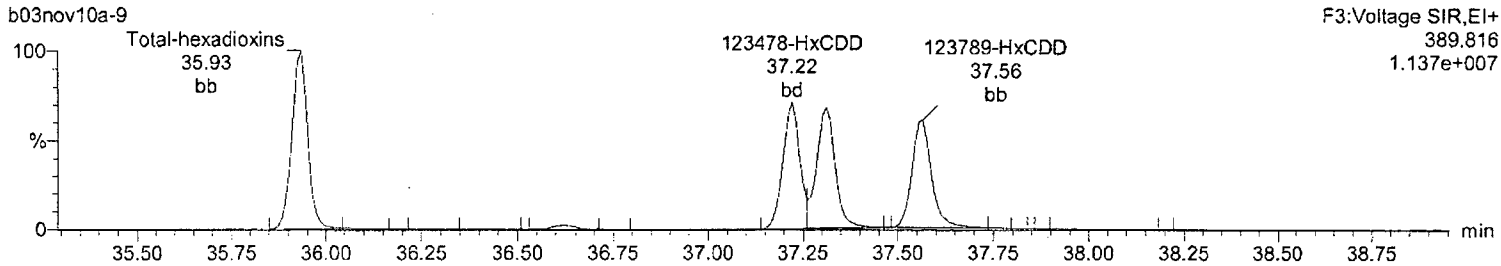
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

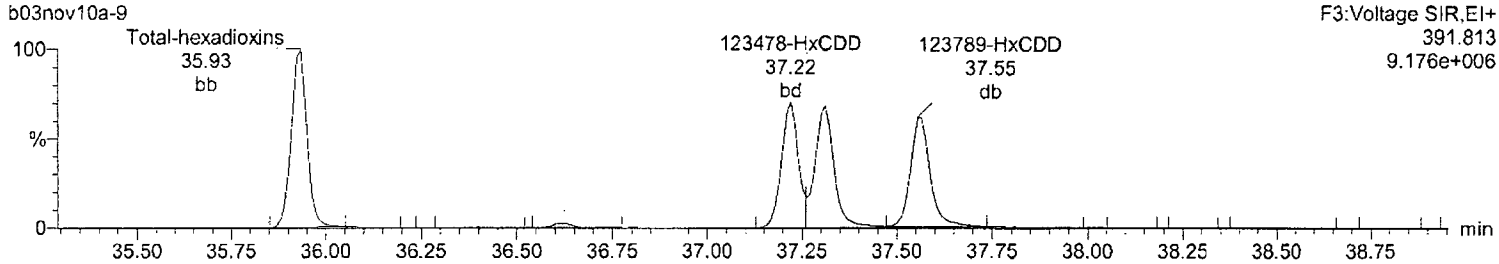
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

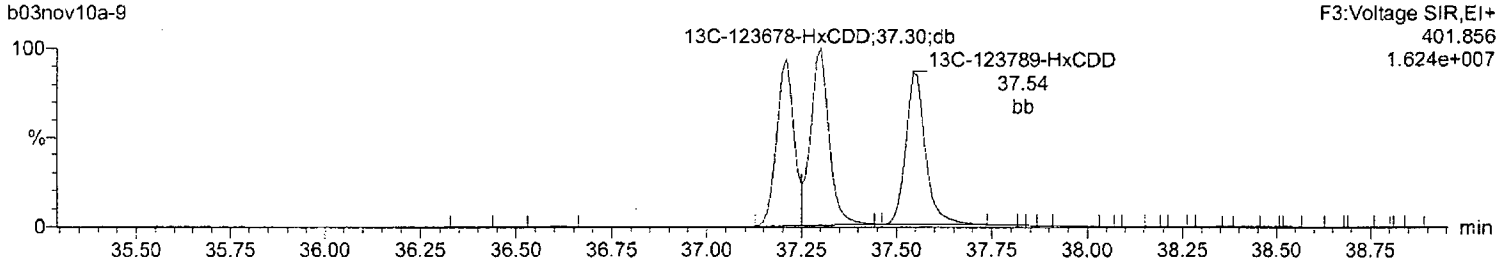
Total-hexadioxins



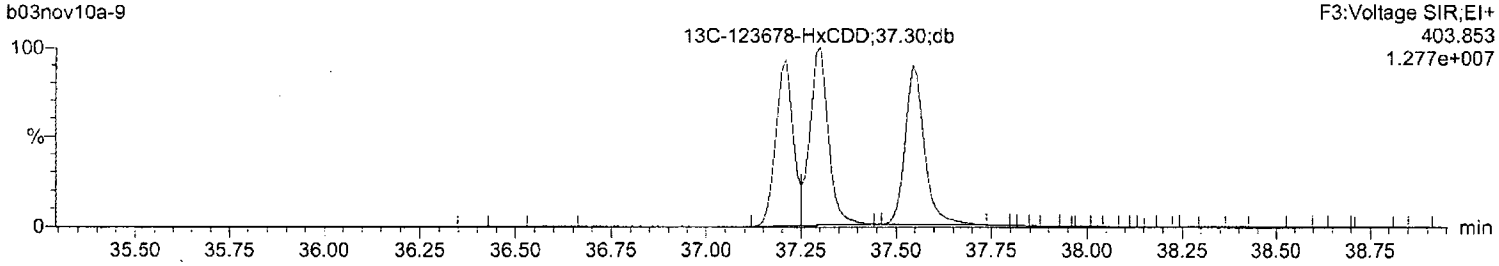
Total-hexadioxins



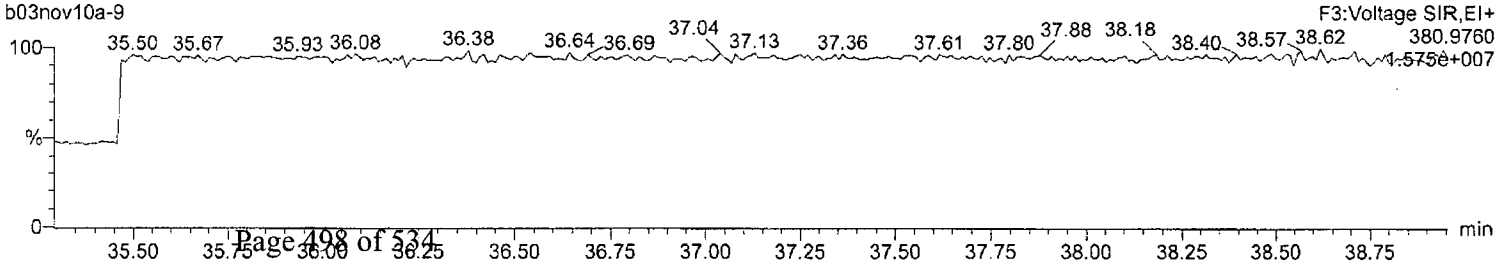
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



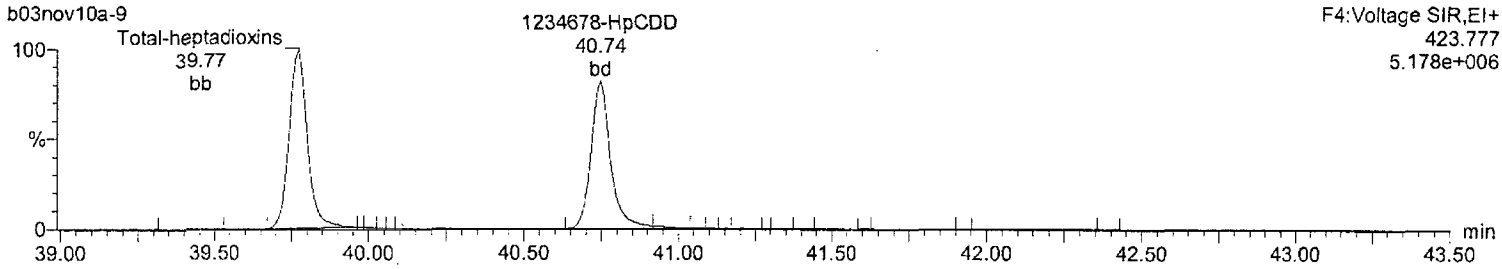
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

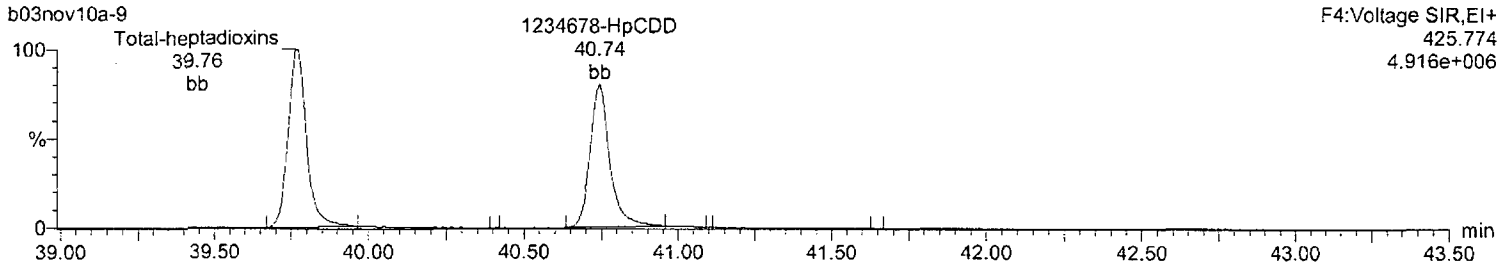
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

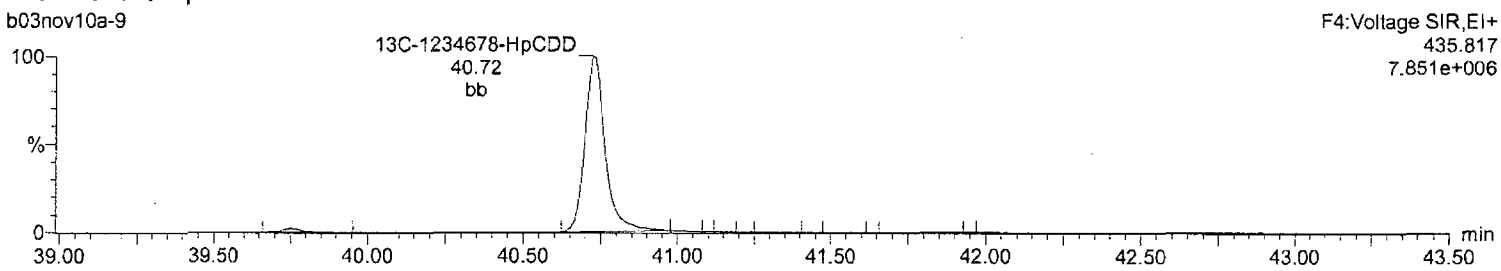
Total-heptadioxins



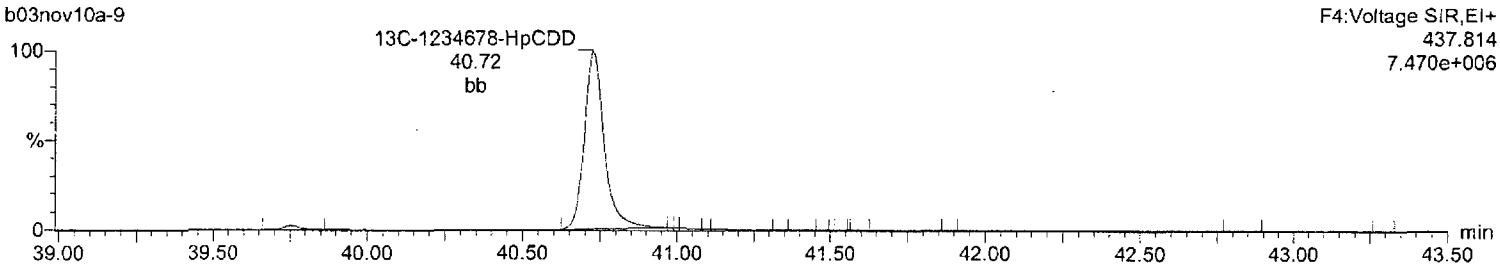
Total-heptadioxins



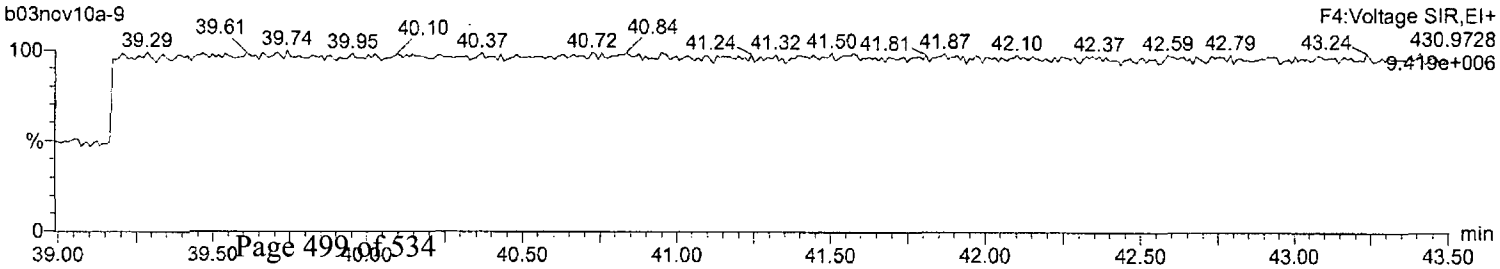
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



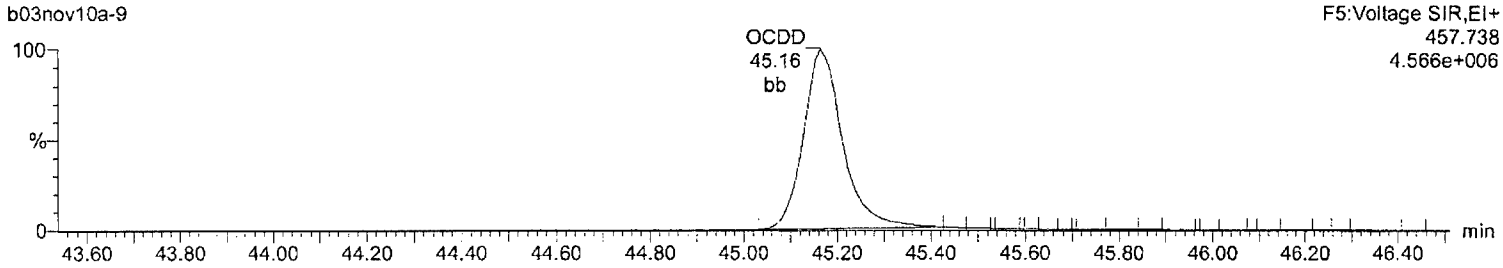
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

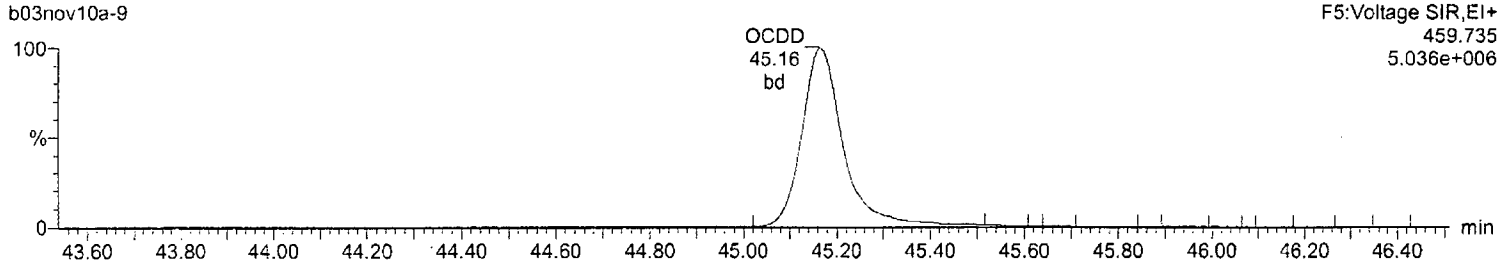
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

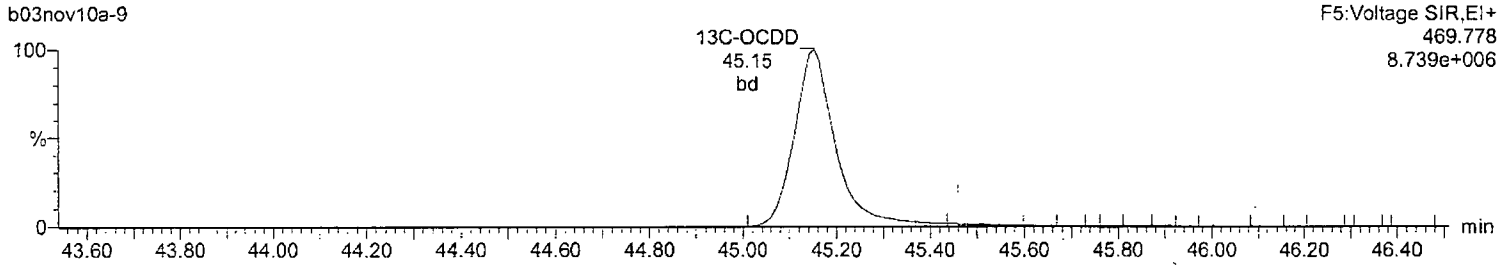
OCDD



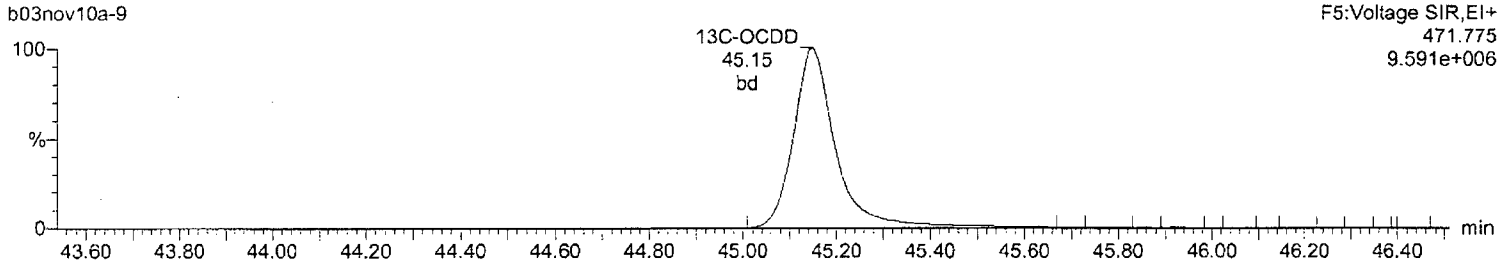
OCDD



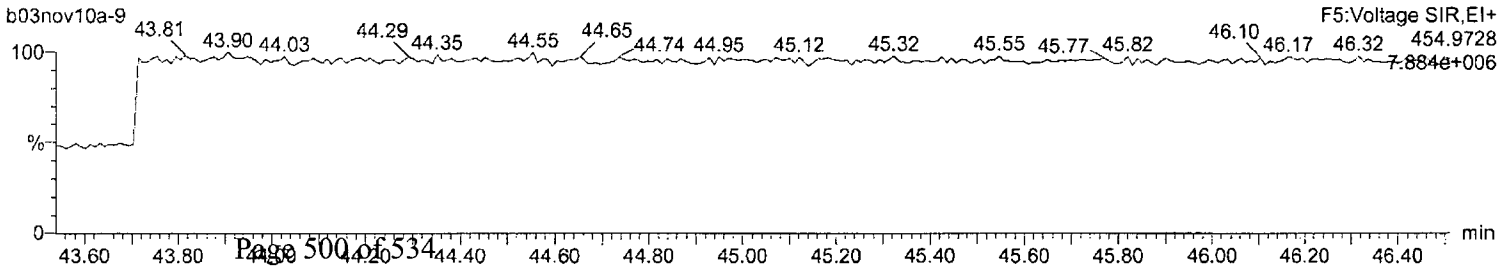
13C-OCDD



13C-OCDD



Lock Mass F5



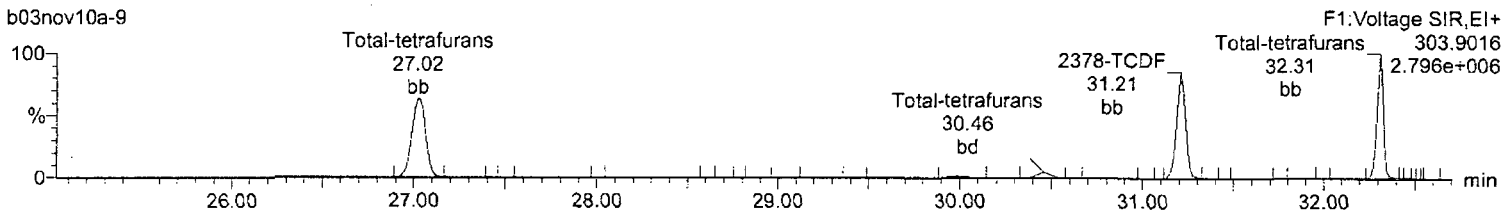
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

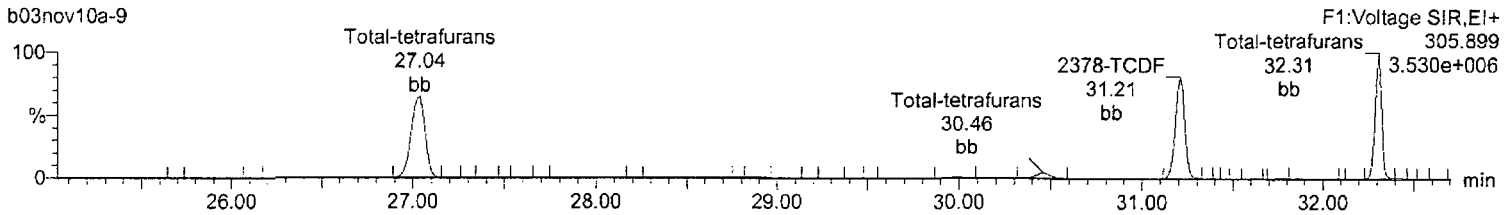
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

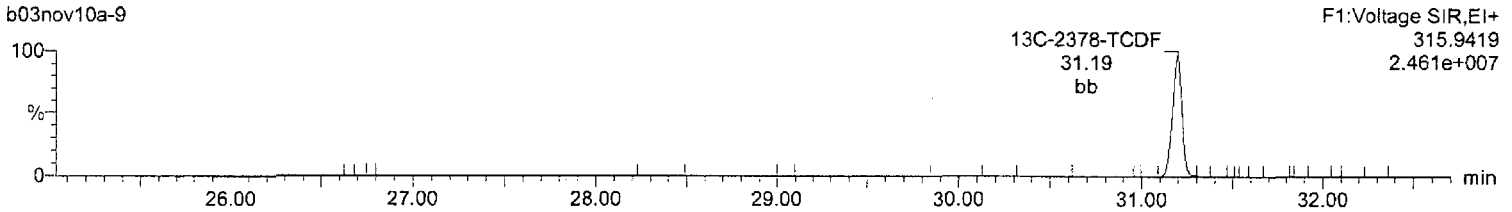
Total-tetrafurans



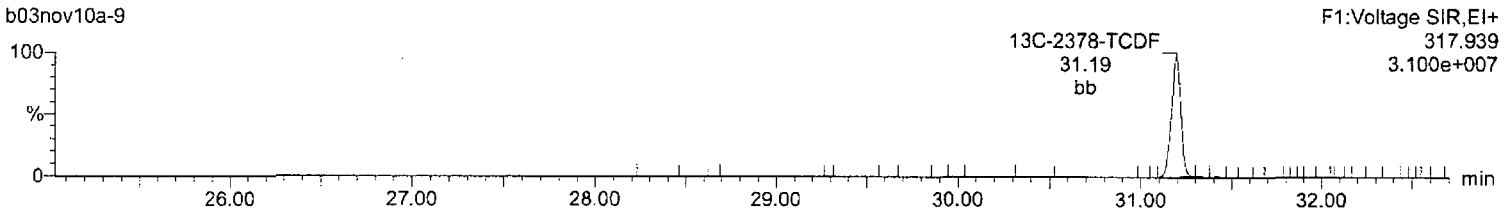
Total-tetrafurans



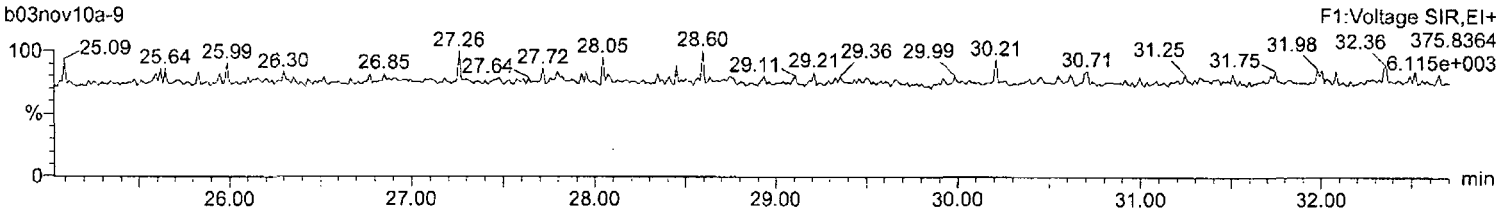
13C-2378-TCDF



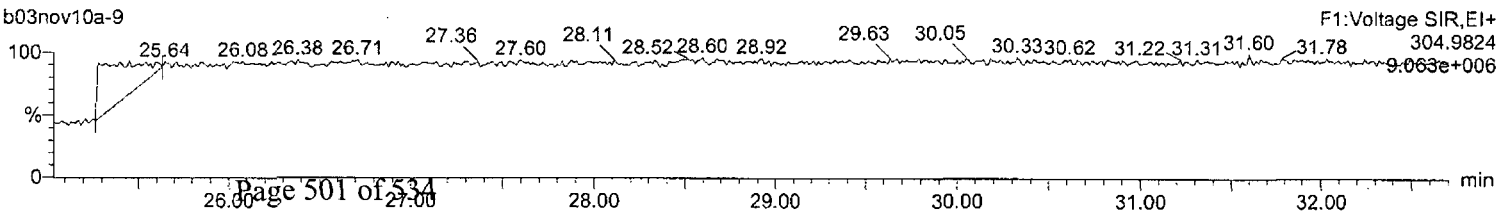
13C-2378-TCDF



HxDPE



Lock Mass F1



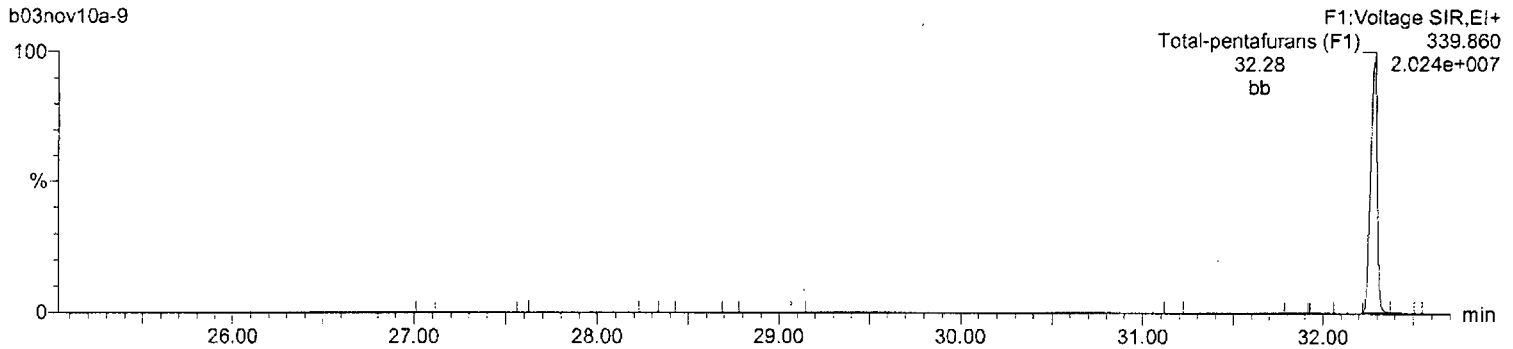
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

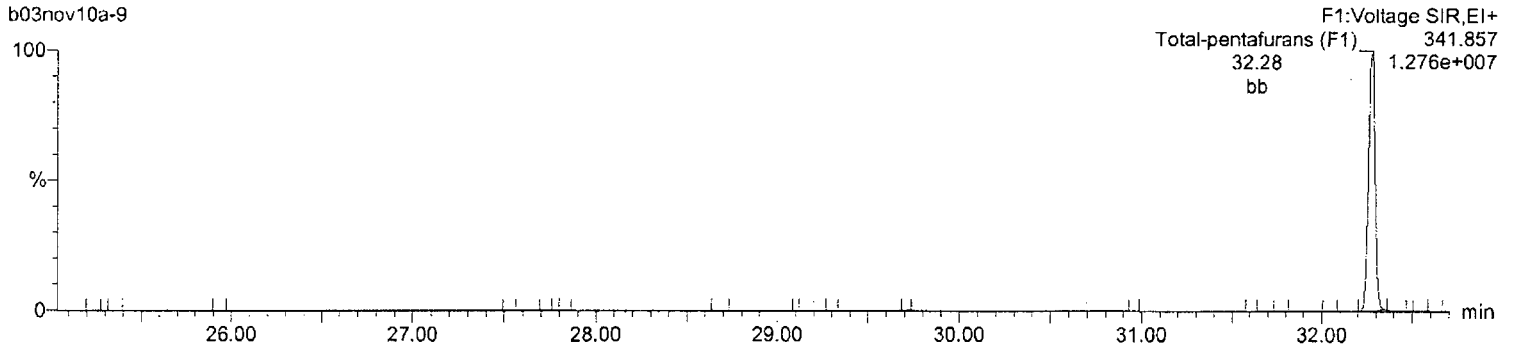
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

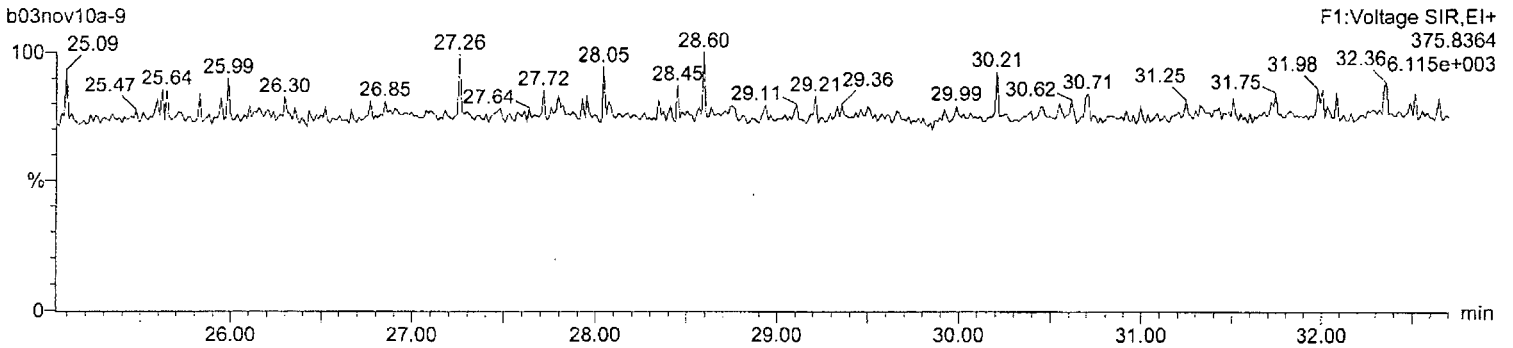
Total-pentafurans (F1)



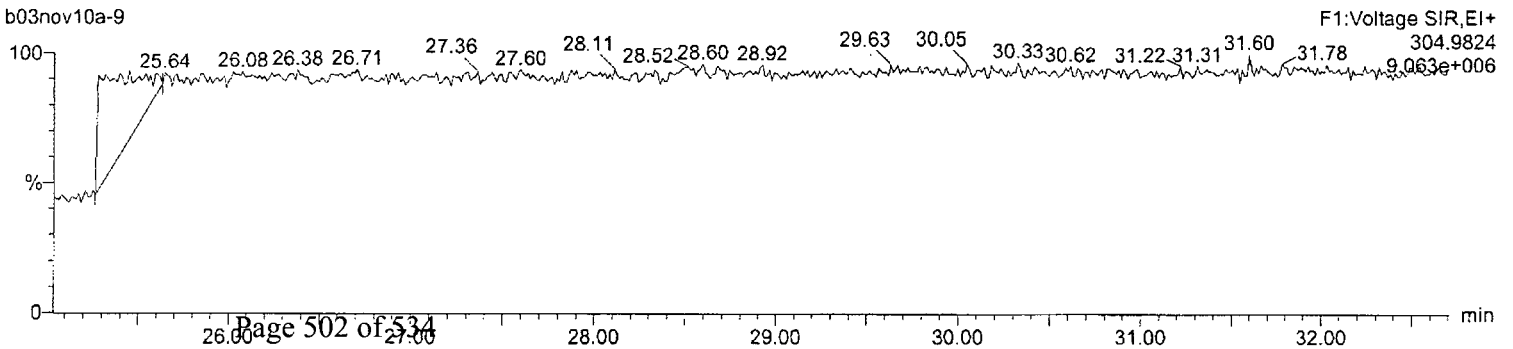
Total-pentafurans (F1)



HxDPE



Lock Mass F1



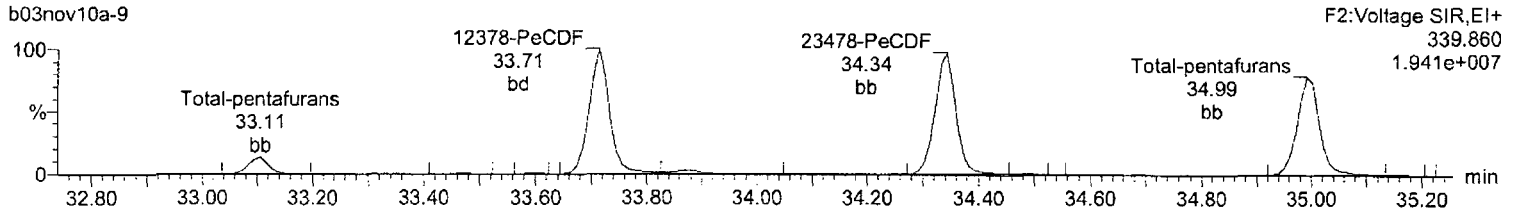
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

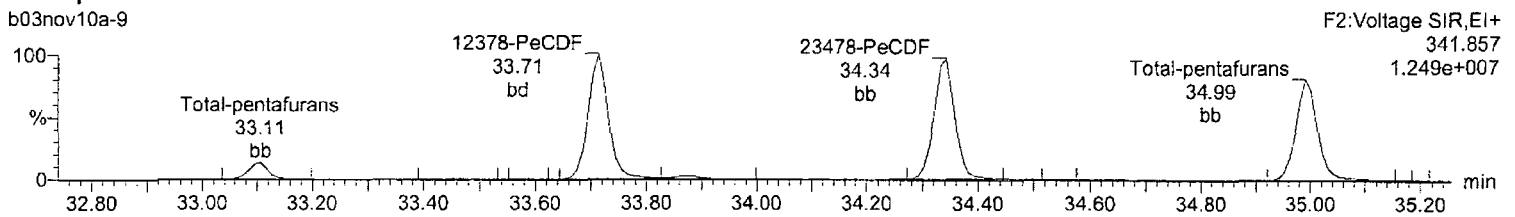
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

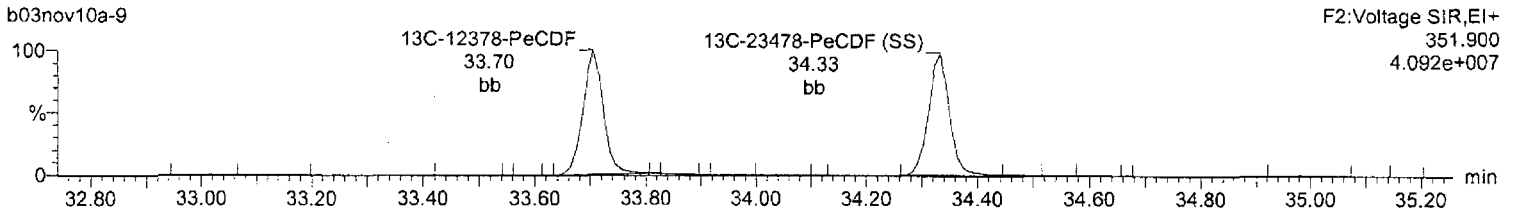
Total-pentafurans



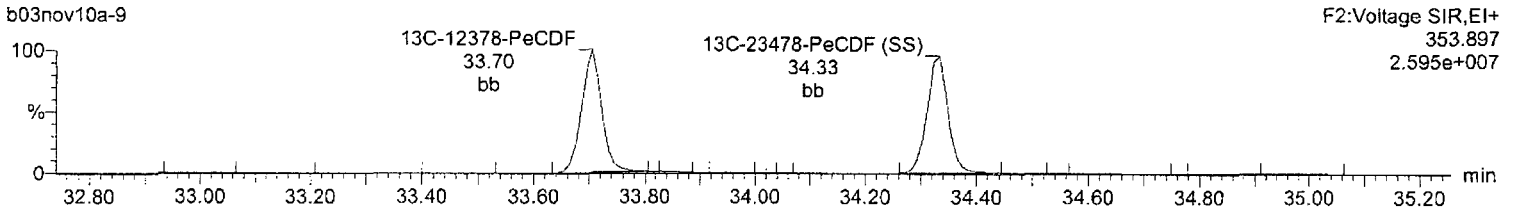
Total-pentafurans



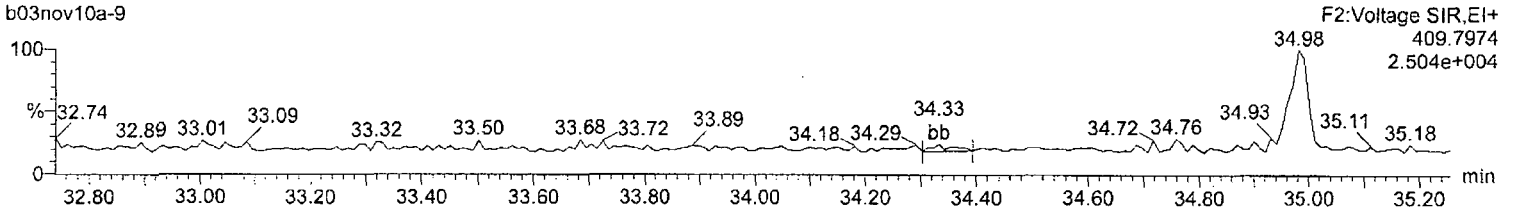
13C-12378-PeCDF



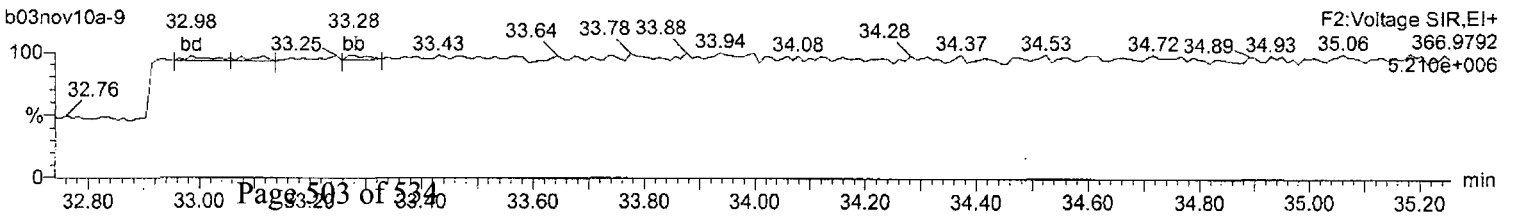
13C-12378-PeCDF



HpDPE



Lock Mass F2



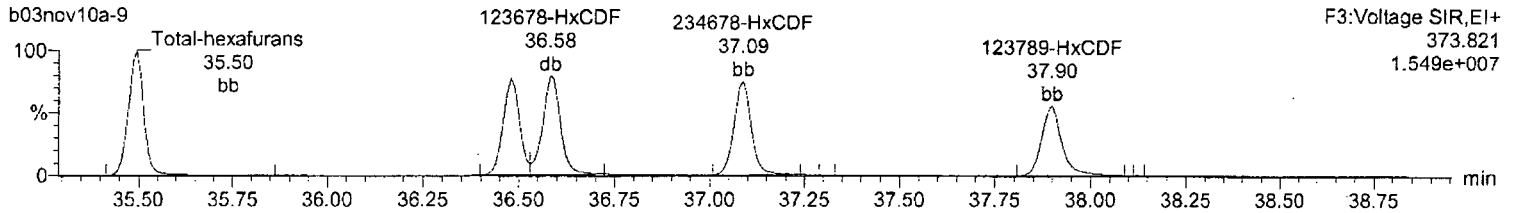
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

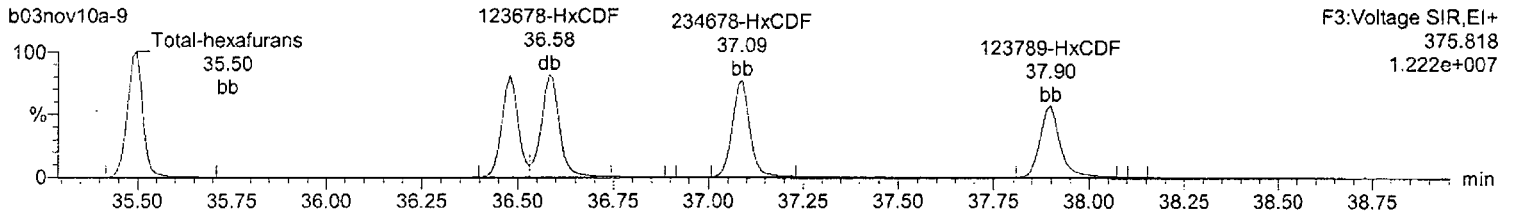
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

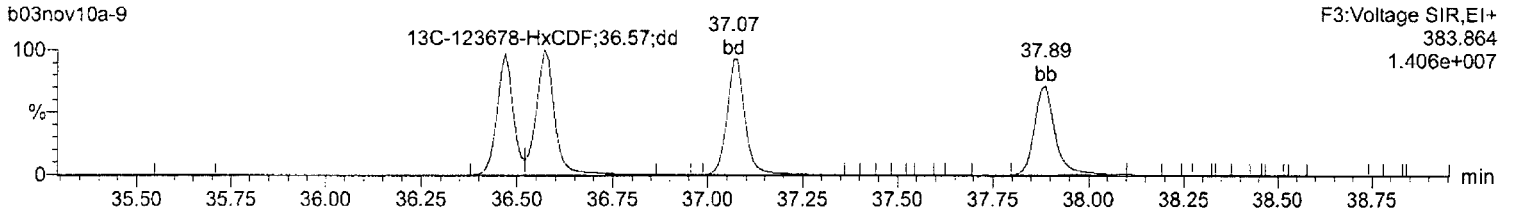
Total-hexafurans



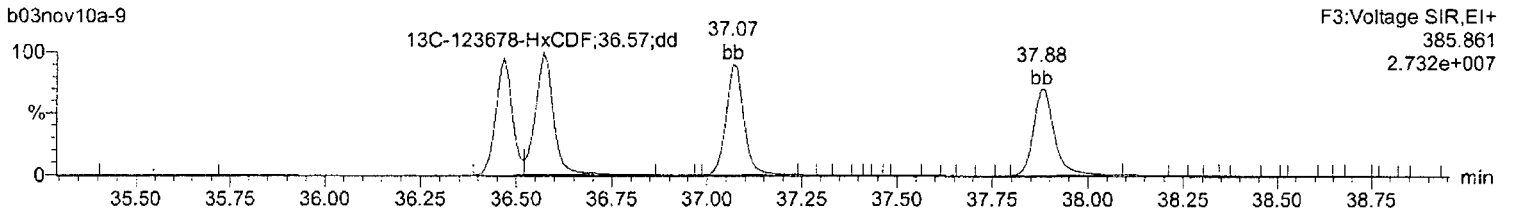
Total-hexafurans



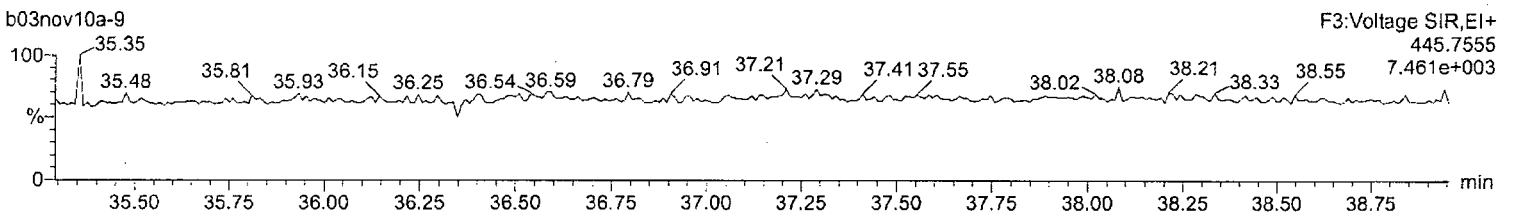
13C-123678-HxCDF



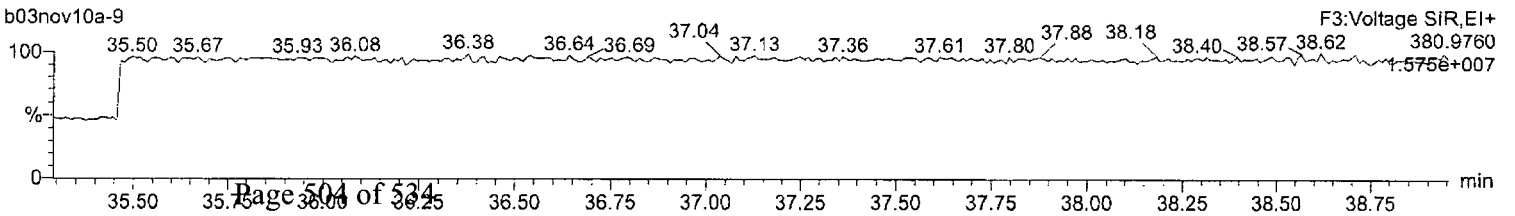
13C-123678-HxCDF



OcDPE



Lock Mass F3



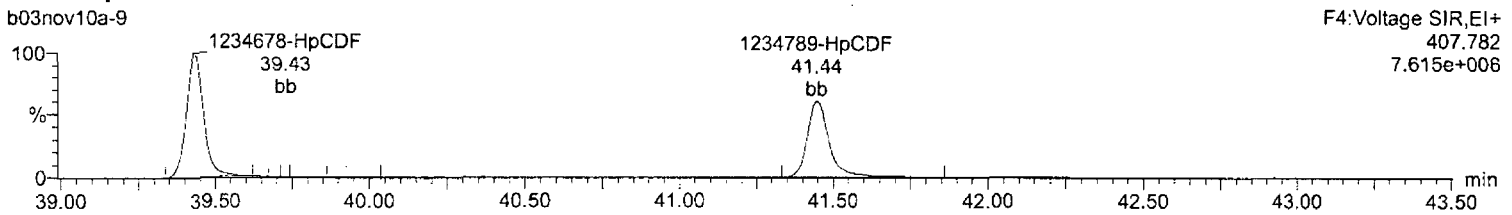
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

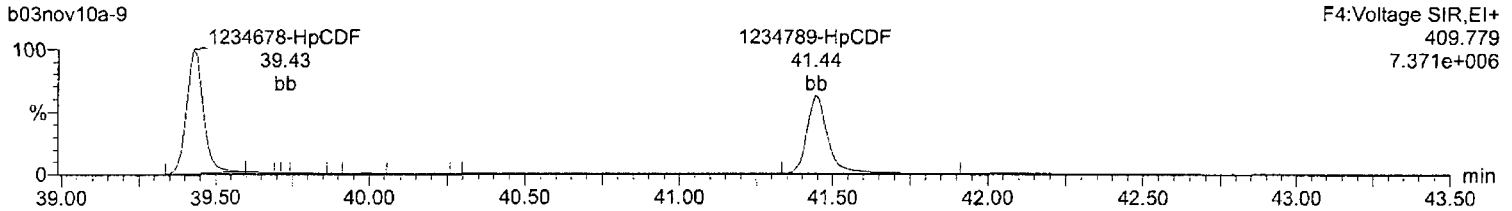
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

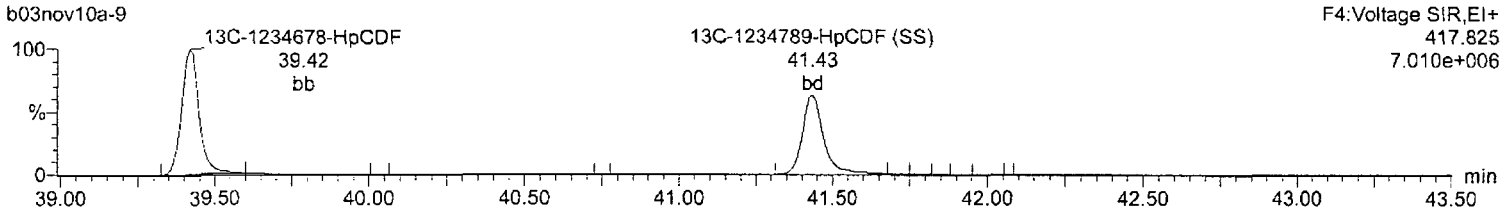
Total-heptafurans



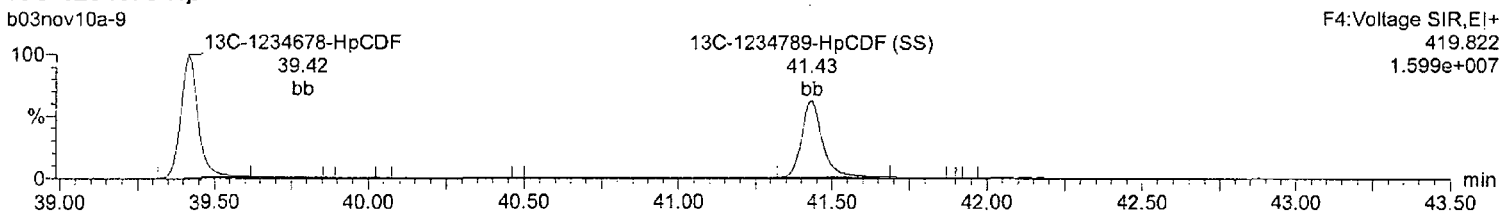
Total-heptafurans



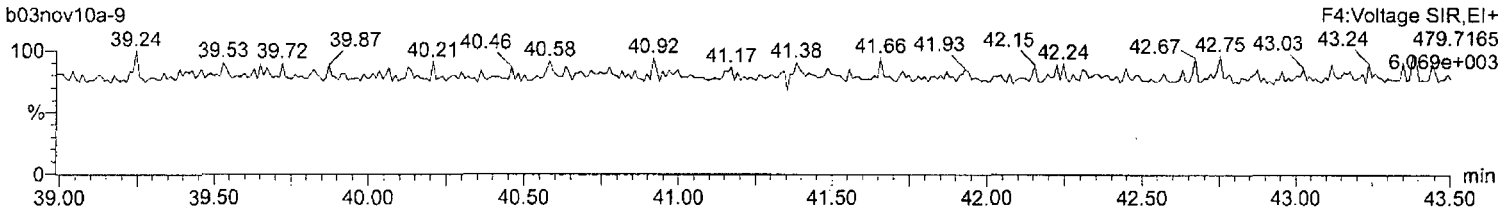
13C-1234678-HpCDF



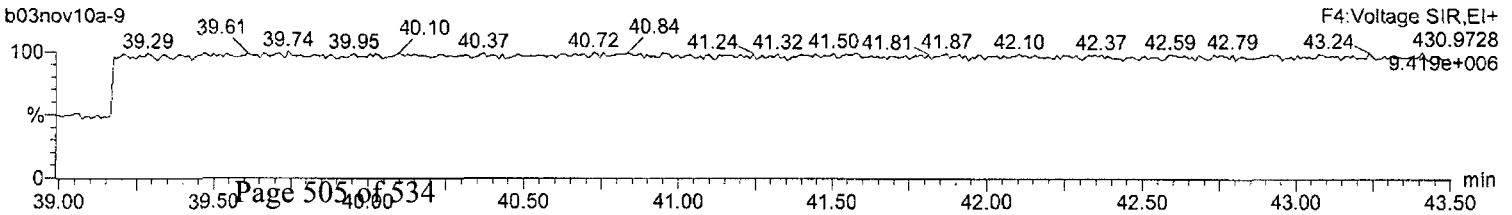
13C-1234678-HpCDF



NoDPE



Lock Mass F4



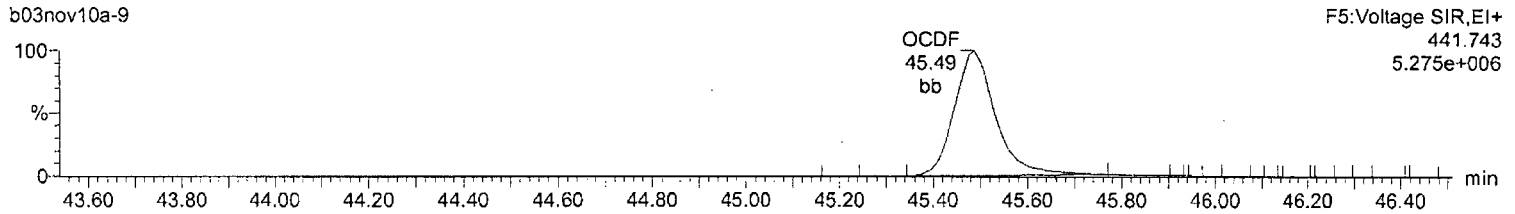
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a-9.qld

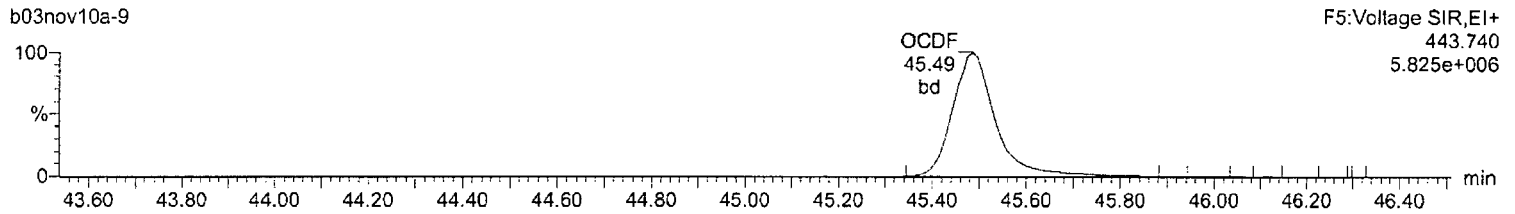
Last Altered: Wednesday, November 03, 2010 15:47:59 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:48:58 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

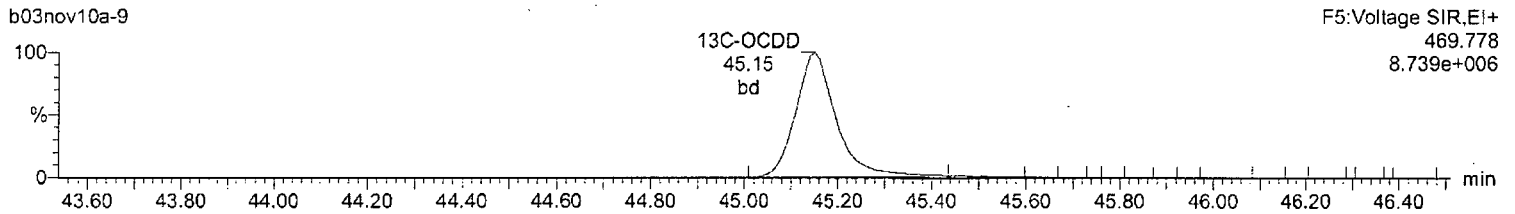
OCDF



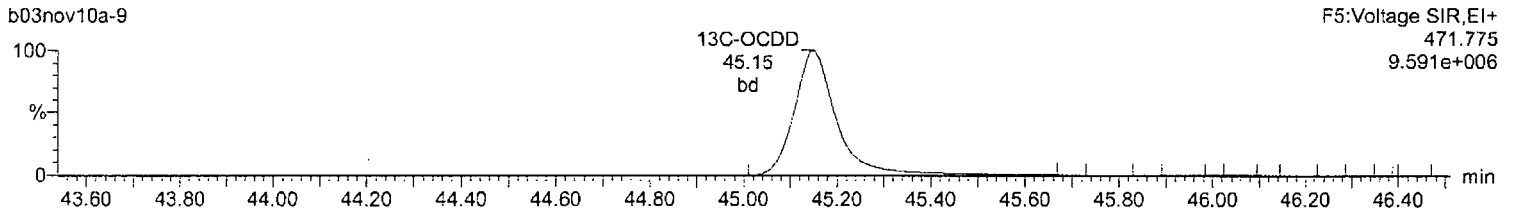
OCDF



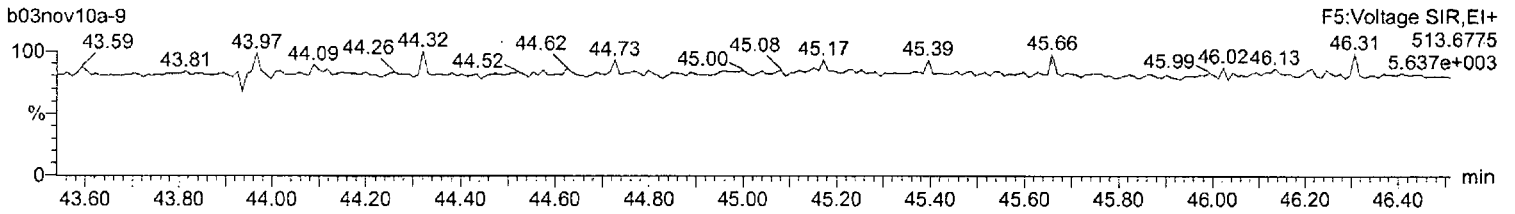
13C-OCDD



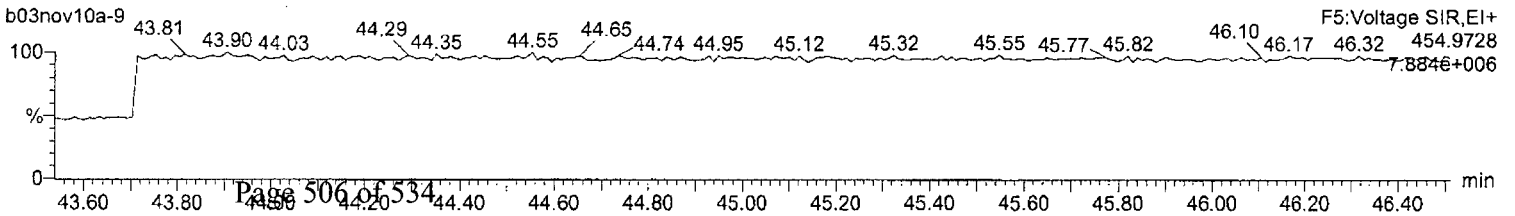
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_110110.mdb 02 Nov 2010 10:41:17
Calibration: C:\MassLynx\Default.pro\Curvedb\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.21e4	1.18e5	2.10e5	31.75	1.000	0.78	NO	10.712	0.0183	1.085	1.013	7.1	1.97e6	1302	1512.0	2.48e6	1161	2134.7	bb
2	12378-PeCDD	5.28e5	3.34e5	8.62e5	34.54	1.000	1.58	NO	50.625	0.0592	1.045	1.032	1.2	1.20e7	3733	3215.2	7.59e6	4154	1827.9	bb
3	123478-HxCDD	4.08e5	3.28e5	7.36e5	37.22	1.000	1.25	NO	50.327	0.105	1.048	1.042	0.7	8.10e6	4900	1653.1	6.46e6	4971	1299.0	bd
4	123678-HxCDD	4.41e5	3.60e5	8.01e5	37.31	1.000	1.22	NO	51.244	0.106	0.992	0.968	2.5	7.73e6	4900	1578.3	6.23e6	4971	1253.8	bb
5	123789-HxCDD	4.07e5	3.35e5	7.42e5	37.56	1.007	1.22	NO	52.829	0.114	0.983	0.930	5.7	6.88e6	4900	1403.6	5.64e6	4971	1134.1	bb
6	1234678-HpCDD	3.06e5	2.86e5	5.93e5	40.74	1.000	1.07	NO	51.660	0.140	1.037	1.004	3.3	4.24e6	3721	1140.2	3.93e6	3415	1151.1	bd
7	OCDD	4.39e5	5.15e5	9.54e5	45.16	1.000	0.85	NO	102.095	0.204	1.017	0.996	2.1	4.53e6	2900	1562.7	5.03e6	3384	1485.4	bb
8	2378-TCDF	1.33e5	1.68e5	3.01e5	31.21	1.000	0.79	NO	9.651	0.0214	0.949	0.983	-3.5	2.37e6	2012	1178.5	2.84e6	1881	1507.8	bb
9	12378-PeCDF	8.05e5	5.20e5	1.33e6	33.71	1.000	1.55	NO	51.082	0.0683	0.954	0.934	2.2	1.94e7	7871	2464.7	1.25e7	6305	1978.7	bd
10	23478-PeCDF	8.11e5	5.20e5	1.33e6	34.34	1.000	1.56	NO	48.639	0.0664	0.953	0.980	-2.7	1.88e7	7871	2393.1	1.21e7	6305	1911.3	bb
11	123478-HxCDF	5.94e5	4.82e5	1.08e6	36.48	1.000	1.23	NO	49.313	0.107	1.108	1.123	-1.4	1.21e7	8351	1443.7	9.95e6	7742	1284.7	bd
12	123678-HxCDF	6.54e5	5.36e5	1.19e6	36.58	1.000	1.22	NO	50.021	0.112	1.058	1.058	0.0	1.23e7	8351	1472.8	9.97e6	7742	1288.1	bb
13	234678-HxCDF	6.08e5	4.89e5	1.10e6	37.09	1.001	1.24	NO	49.163	0.118	1.089	1.107	-1.7	1.17e7	8351	1397.9	9.44e6	7742	1219.4	bb
14	123789-HxCDF	5.21e5	4.19e5	9.40e5	37.90	1.000	1.24	NO	49.769	0.159	1.037	1.042	-0.5	8.68e6	8351	1039.1	6.92e6	7742	894.5	bb
15	1234678-HpCDF	4.79e5	4.62e5	9.41e5	39.43	1.000	1.03	NO	50.342	0.101	1.285	1.277	0.7	7.58e6	4894	1548.2	7.33e6	4862	1507.3	bb
16	1234789-HpCDF	3.75e5	3.65e5	7.40e5	41.44	1.000	1.03	NO	53.472	0.169	1.315	1.230	6.9	4.59e6	4894	938.4	4.62e6	4862	949.3	bb
17	OCDF	5.27e5	6.05e5	1.13e6	45.49	1.007	0.87	NO	97.860	0.174	1.206	1.233	-2.1	5.24e6	2957	1772.6	5.81e6	3694	1572.5	bb
18	13C-2378-TCDD	8.51e5	1.08e6	1.93e6	31.73	1.013	0.79	NO	91.781	0.0383	1.028	1.120	-8.2	1.75e7	3081	5685.2	2.15e7	1902	11299.5	bb
19	13C-12378-PeCDD	1.01e6	6.38e5	1.65e6	34.53	1.102	1.59	NO	92.390	0.0584	0.878	0.950	-7.6	2.38e7	2808	8465.6	1.45e7	3641	3973.9	bb
20	13C-123478-HxCDD	7.88e5	6.16e5	1.40e6	37.21	0.991	1.28	NO	99.400	0.115	0.951	0.957	-0.6	1.52e7	5747	2643.2	1.18e7	3430	3453.1	bd
21	13C-123678-HxCDD	9.04e5	7.11e5	1.62e6	37.30	0.994	1.27	NO	98.400	0.0992	1.094	1.112	-1.6	1.61e7	5747	2802.7	1.27e7	3430	3693.7	db
22	13C-1234678-HpCDD	5.88e5	5.54e5	1.14e6	40.72	1.085	1.06	NO	96.626	0.102	0.774	0.801	-3.4	7.82e6	3642	2146.3	7.43e6	3137	2370.0	bb
23	13C-OCDD	8.81e5	9.97e5	1.88e6	45.15	1.203	0.88	NO	190.264	0.169	0.636	0.668	-4.9	8.72e6	5071	1719.7	9.57e6	4347	2201.4	bd
24	13C-2378-TCDF	1.40e6	1.77e6	3.17e6	31.19	0.996	0.79	NO	92.569	0.0242	1.686	1.821	-7.4	2.45e7	2980	8226.0	3.09e7	2133	14483.8	bb
25	13C-12378-PeCDF	1.70e6	1.08e6	2.78e6	33.70	1.076	1.57	NO	87.232	0.0602	1.476	1.692	-12.8	4.07e7	5360	7599.9	2.58e7	6479	3986.1	bb
26	13C-23478-PeCDF	1.71e6	1.08e6	2.79e6	34.33	1.096	1.58	NO	94.022	0.0645	1.485	1.579	-6.0	4.00e7	5360	7470.7	2.46e7	6479	3803.3	bb
27	13C-123478-HxCDF	6.62e5	1.28e6	1.94e6	36.47	0.971	0.52	NO	99.727	0.126	1.315	1.319	-0.3	1.36e7	6743	2023.4	2.60e7	7081	3667.0	bd
28	13C-123678-HxCDF	7.72e5	1.48e6	2.25e6	36.57	0.974	0.52	NO	93.489	0.102	1.524	1.631	-6.5	1.40e7	6743	2082.8	2.73e7	7081	3852.4	dd
29	13C-234678-HxCDF	7.06e5	1.31e6	2.02e6	37.07	0.987	0.54	NO	97.089	0.118	1.365	1.406	-2.9	1.29e7	6743	1919.5	2.45e7	7081	3462.9	bd
30	13C-123789-HxCDF	6.20e5	1.19e6	1.81e6	37.89	1.009	0.52	NO	99.041	0.134	1.227	1.239	-1.0	9.99e6	6743	1481.3	1.89e7	7081	2673.9	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
32	13C-1234678-HpCDF	4.52e5	1.01e6	1.46e6	39.42	1.050	0.45	NO	91.740	0.0942	0.992	1.081	-8.3	6.97e6	4172	1671.5	1.59e7	4302	3704.4	bb
33	13C-1234789-HpCDF	3.54e5	7.72e5	1.13e6	41.43	1.104	0.46	NO	93.257	0.125	0.762	0.817	-6.7	4.42e6	4172	1060.2	9.89e6	4302	2297.9	bd
33	13C-1234-TCDD	8.34e5	1.05e6	1.88e6	31.33	0.000	0.80	NO	100.000	0.0429	1.000	1.000	0.0	1.55e7	3081	5020.2	1.93e7	1902	10147.7	bb
34	13C-123789-HxCDD	8.22e5	6.55e5	1.48e6	37.54	0.000	1.25	NO	100.000	0.110	1.000	1.000	0.0	1.39e7	5747	2417.0	1.13e7	3430	3300.7	bb
35	37Cl-2378-TCDD	2.13e5		2.13e5	31.75	1.013			9.612	0.0112	1.133	1.179	-3.9	4.47e6	1534	2912.6				bb

Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

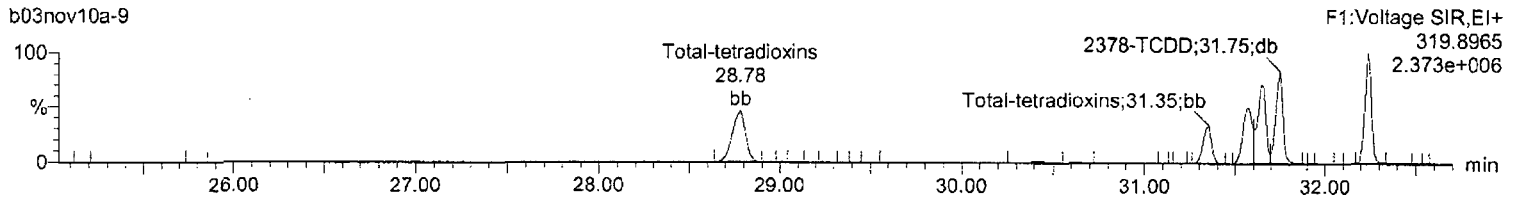
Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

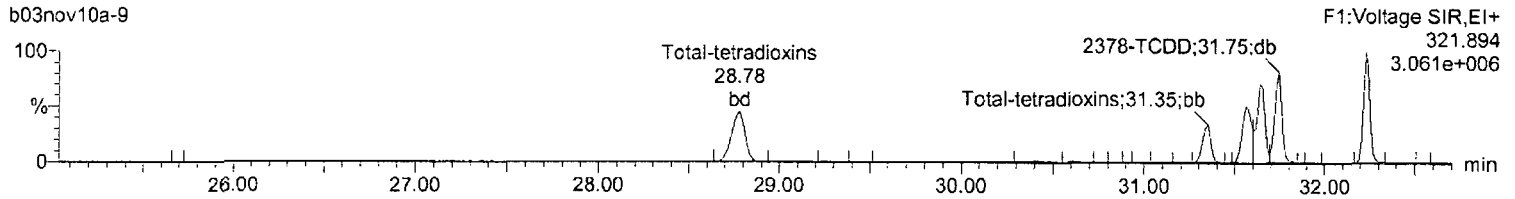
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_110110.mdb 02 Nov 2010 10:41:17
Calibration: C:\MassLynx\Default.pro\Curvedb\1613-b01nov10b.cdb 02 Nov 2010 10:40:09

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

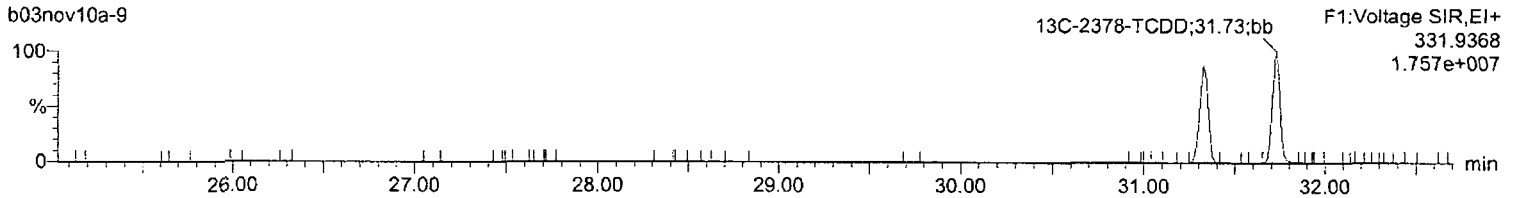
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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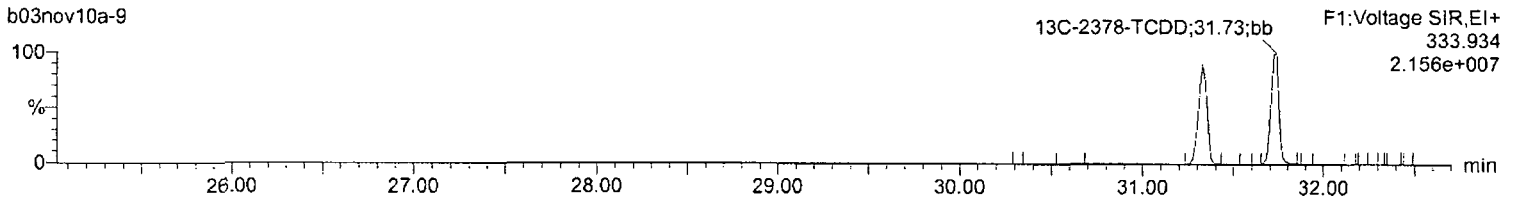
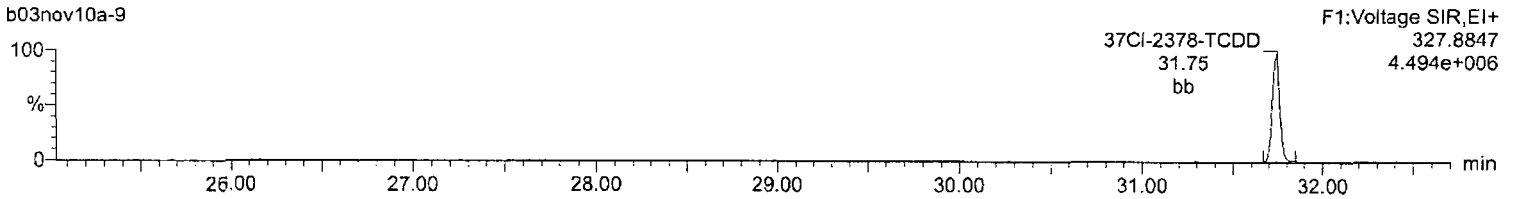
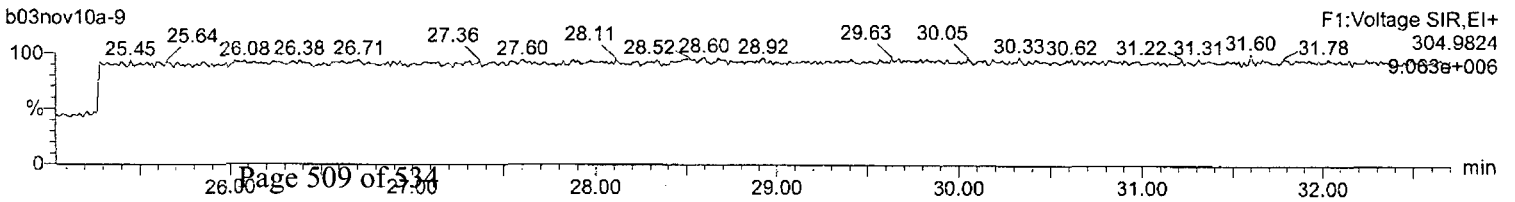


37Cl-2378-TCDD



Lock Mass F1



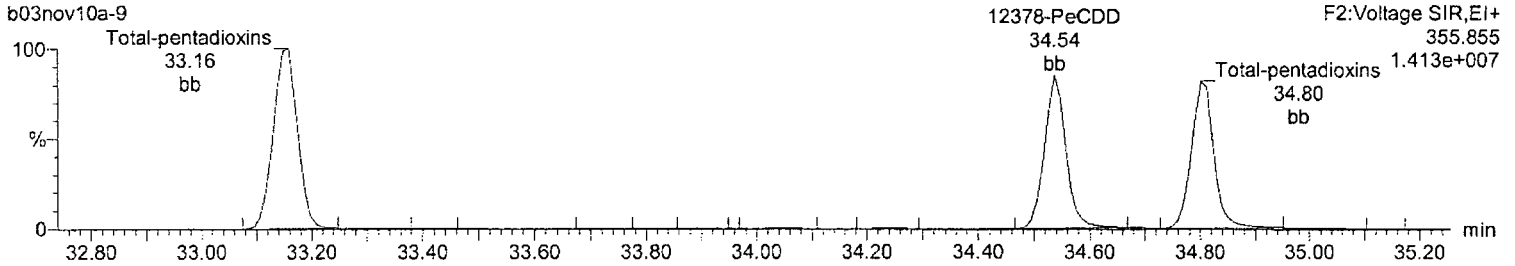
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

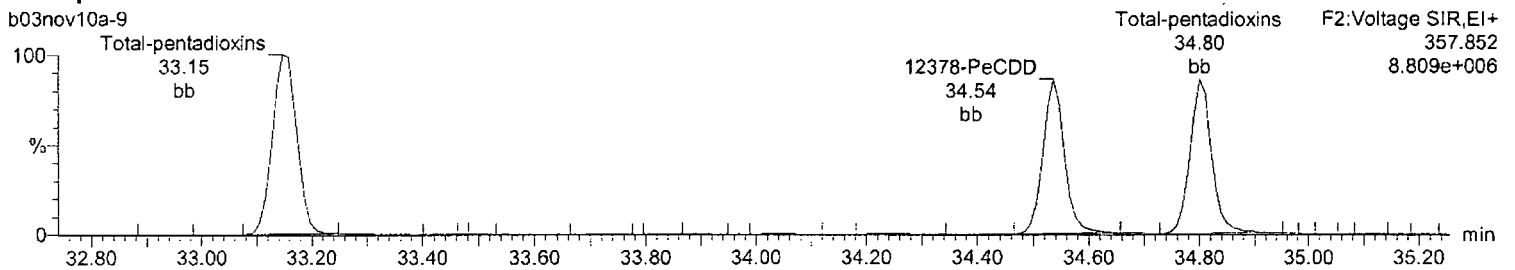
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

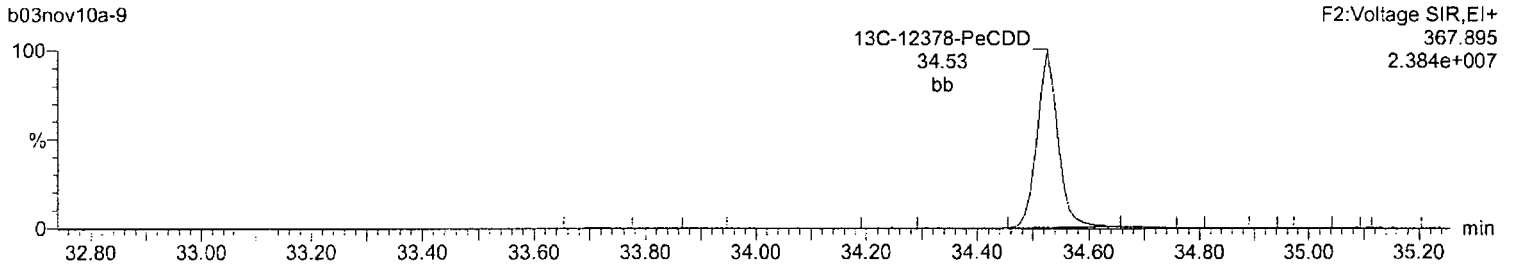
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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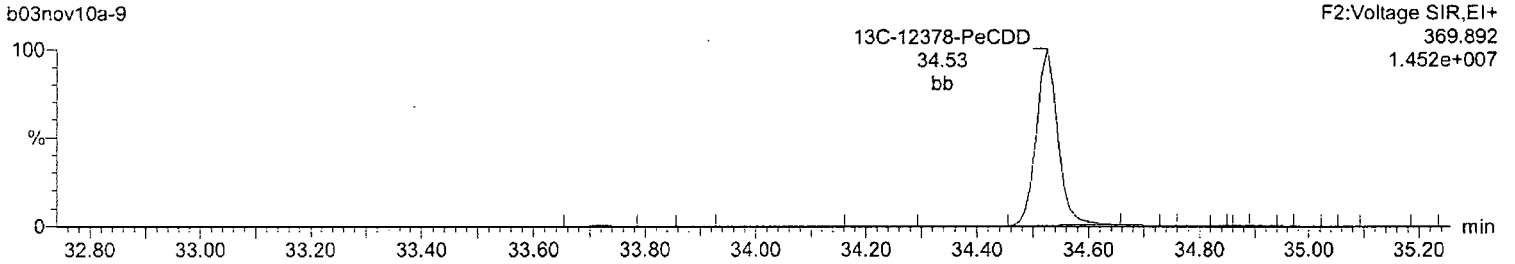
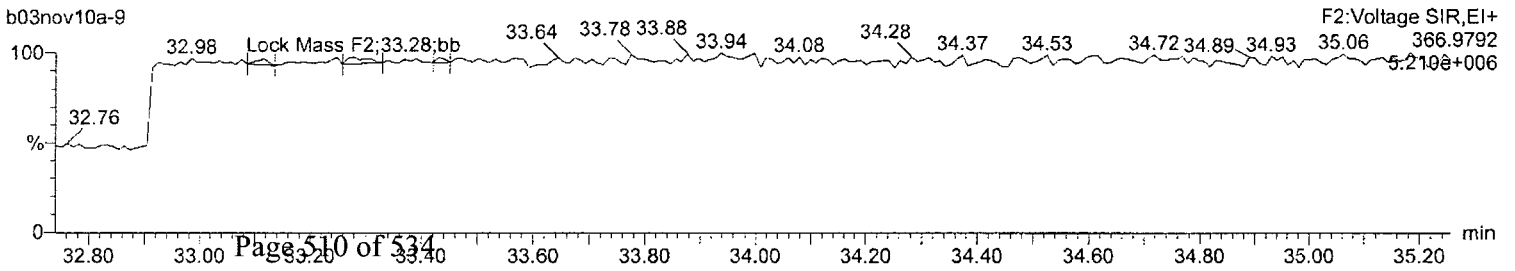


Lock Mass F2



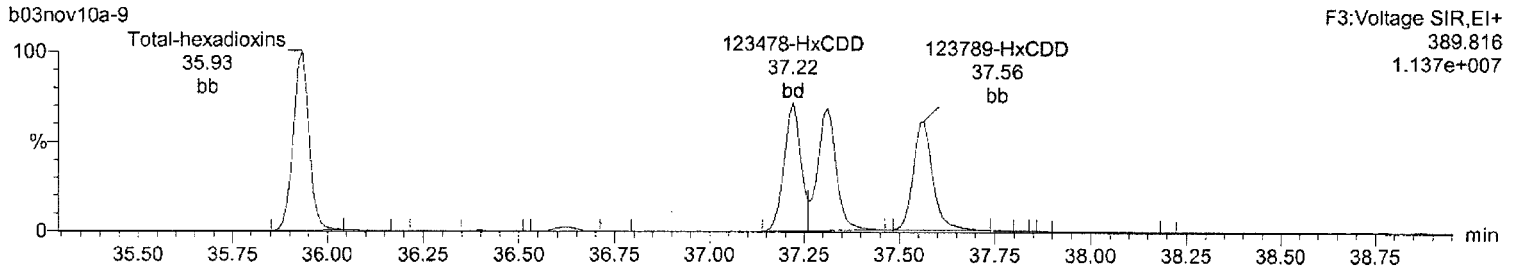
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

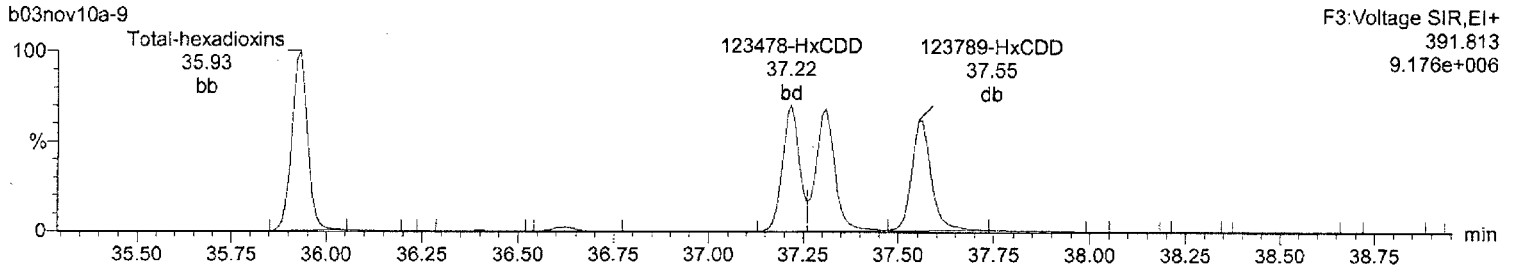
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

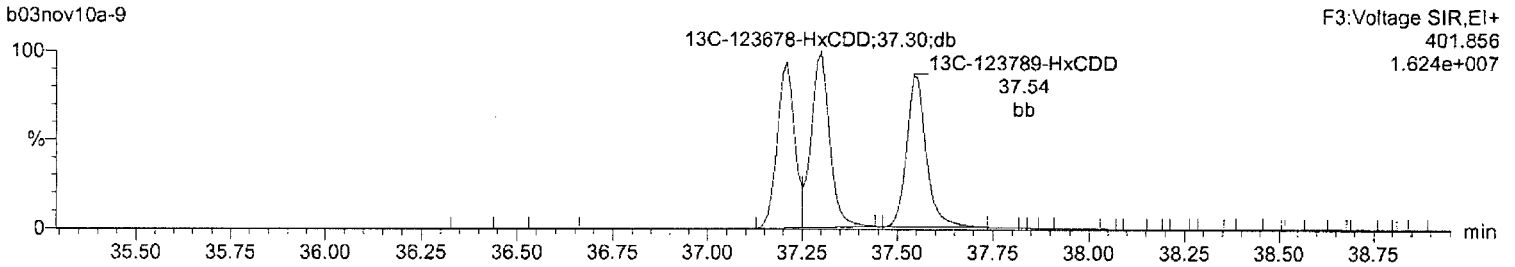
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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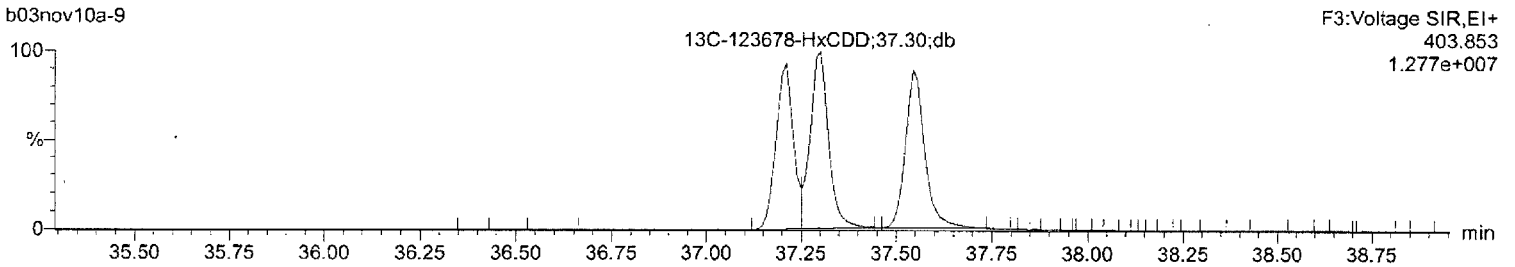
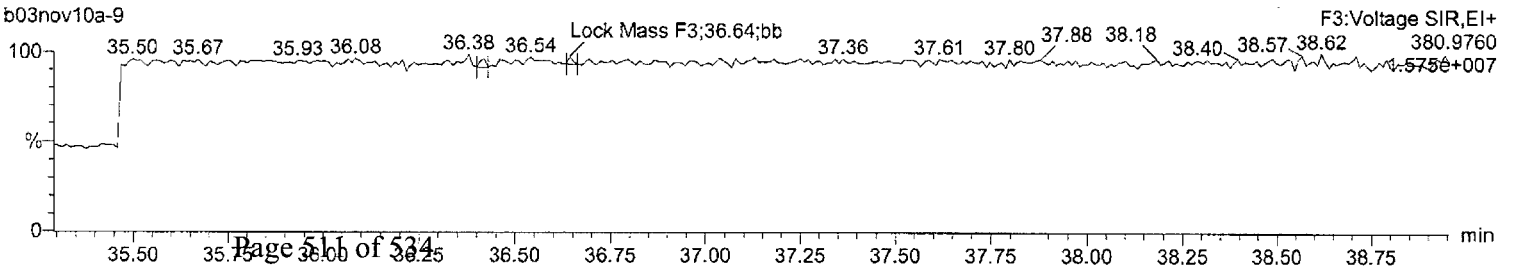


Lock Mass F3



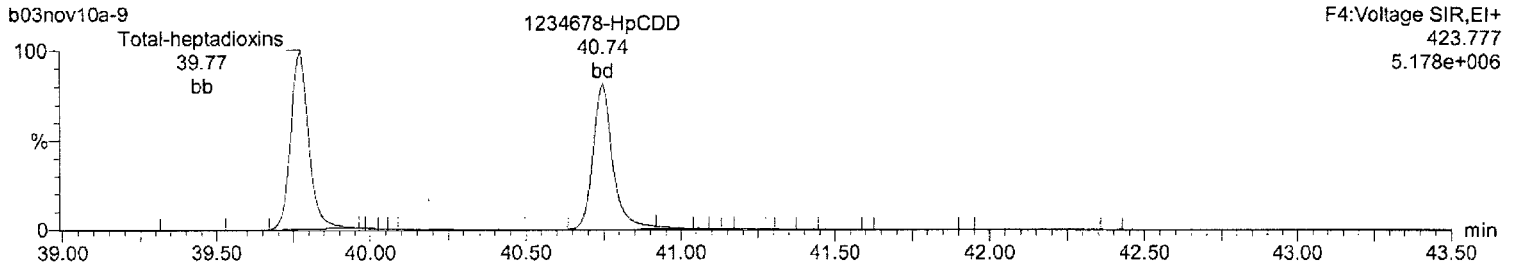
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

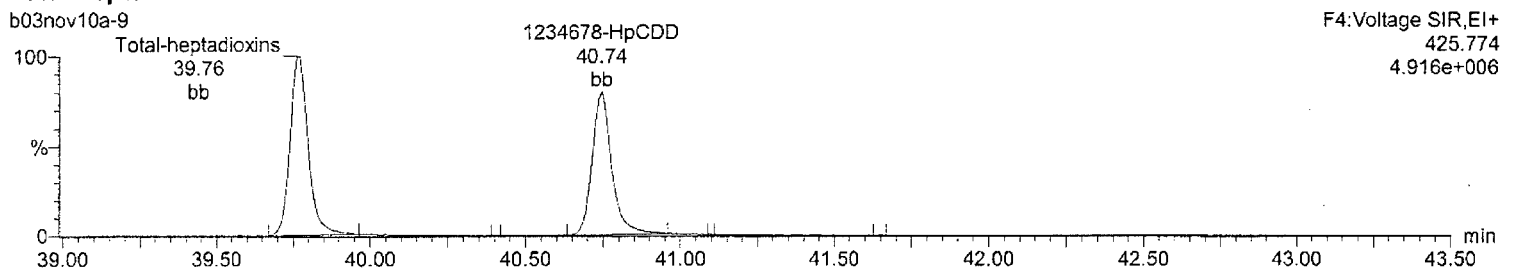
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

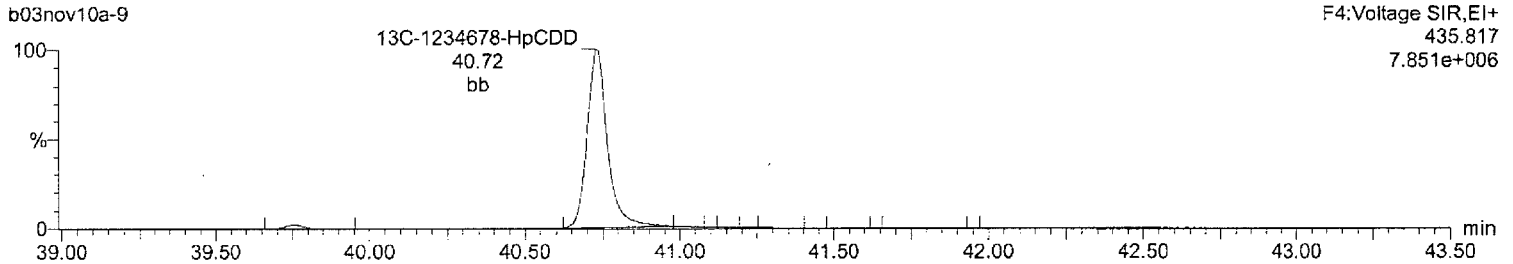
Total-heptadioxins



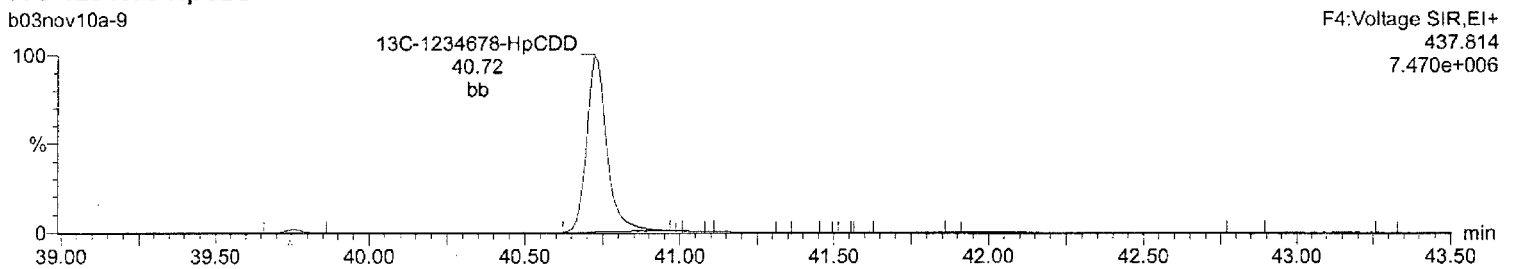
Total-heptadioxins



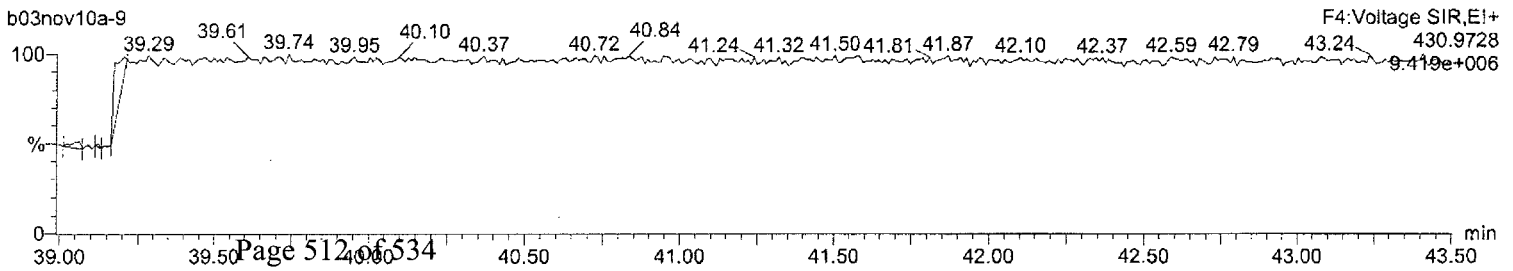
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



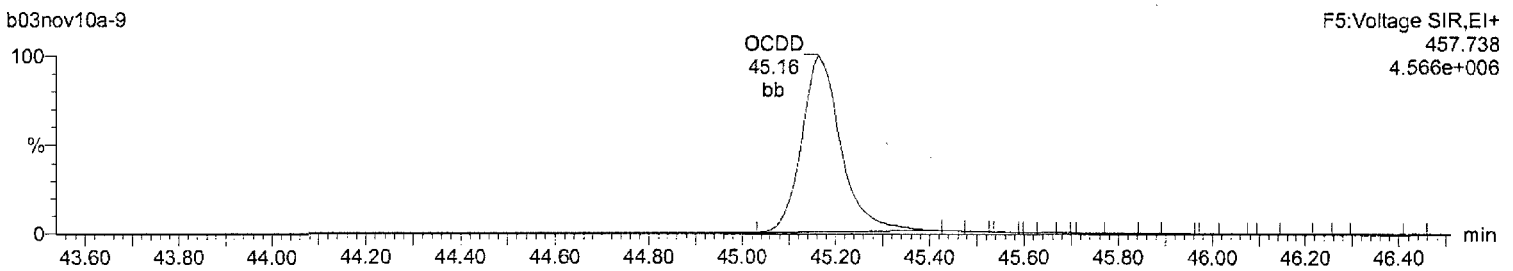
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

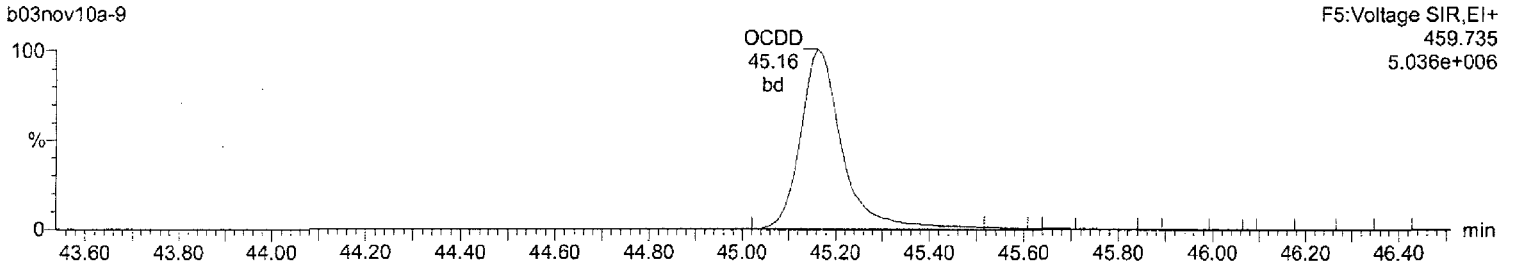
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

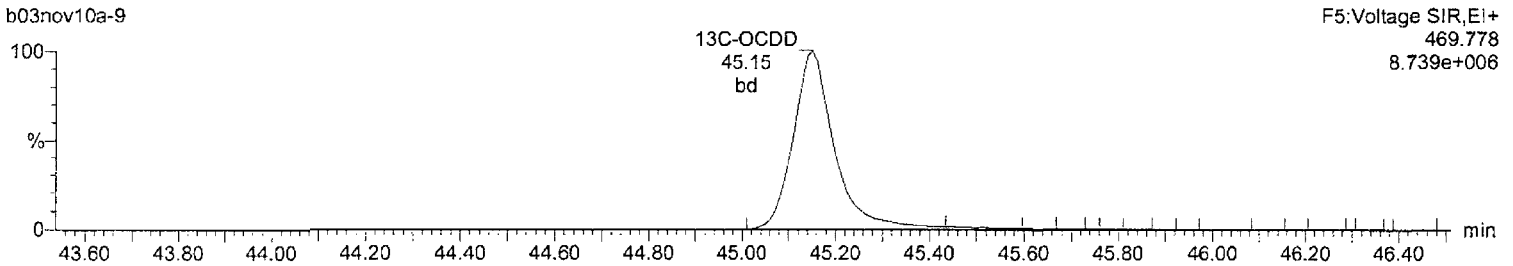
OCDD



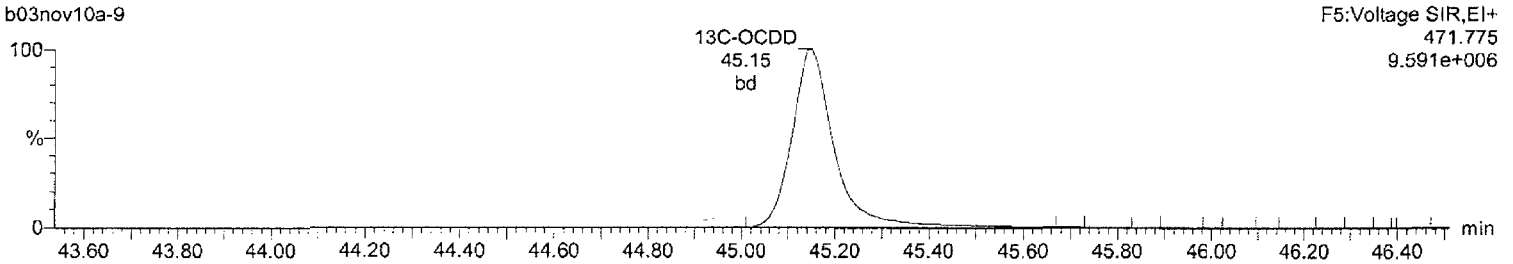
OCDD



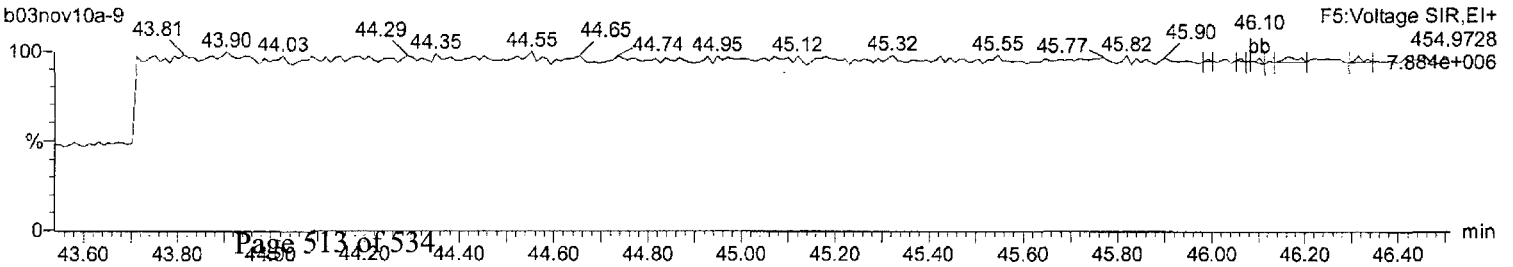
13C-OCDD



13C-OCDD



Lock Mass F5



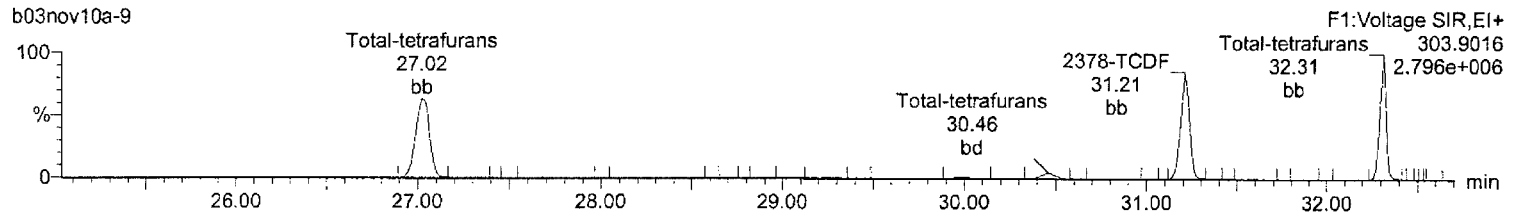
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

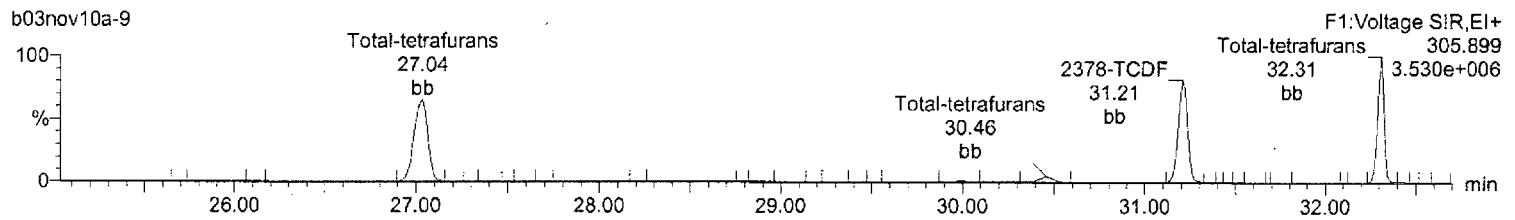
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

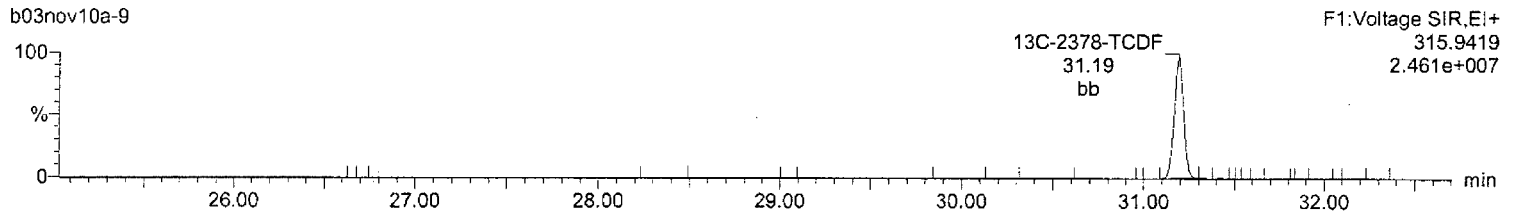
Total-tetrafurans



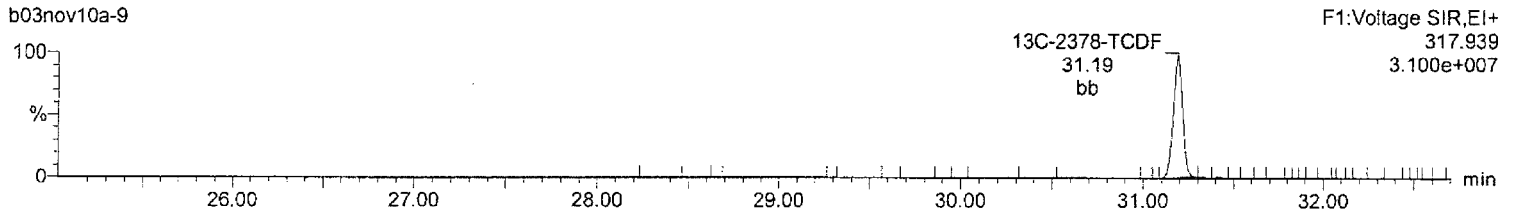
Total-tetrafurans



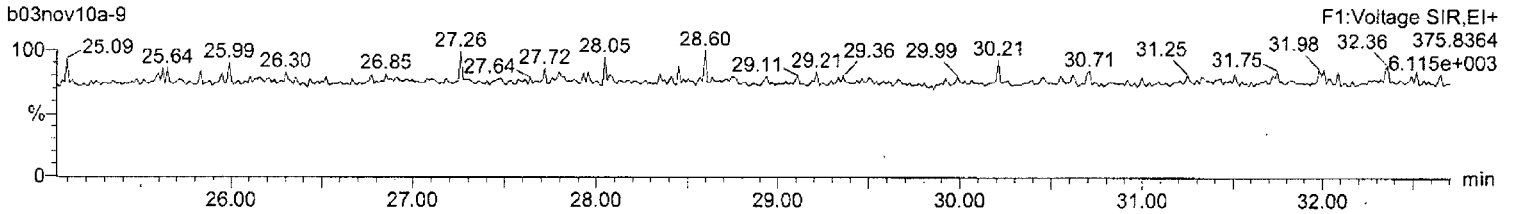
13C-2378-TCDF



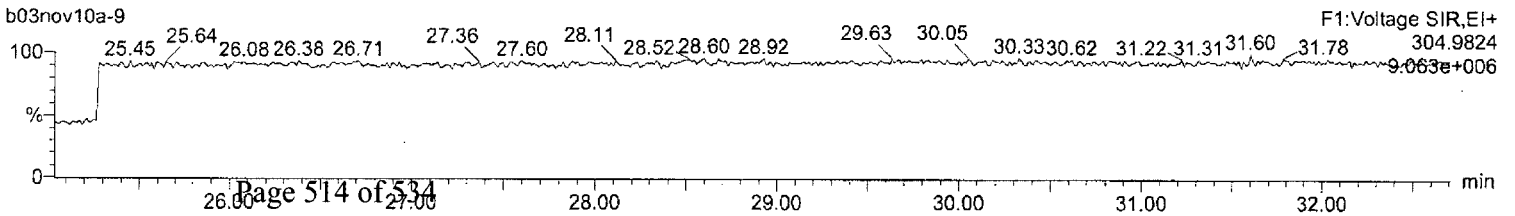
13C-2378-TCDF



HxDPE



Lock Mass F1



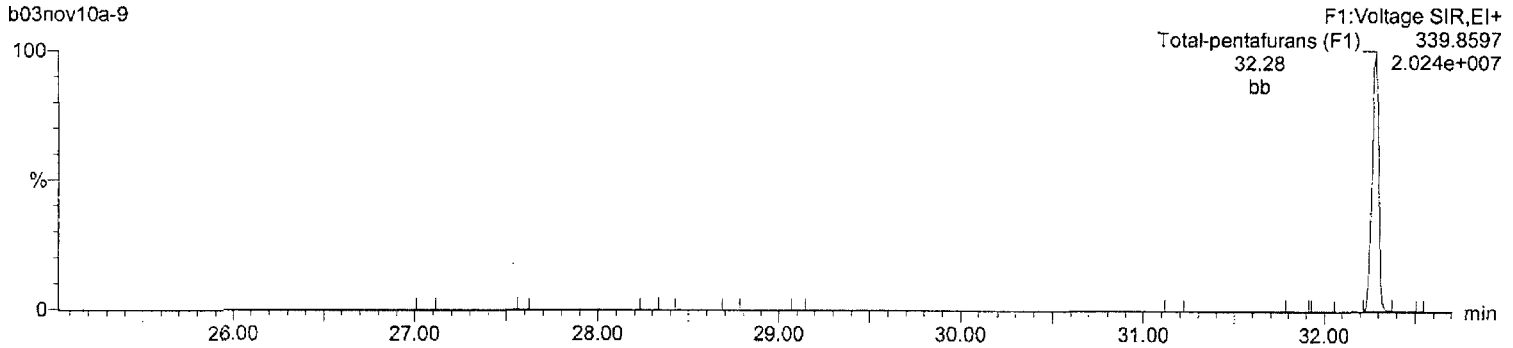
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

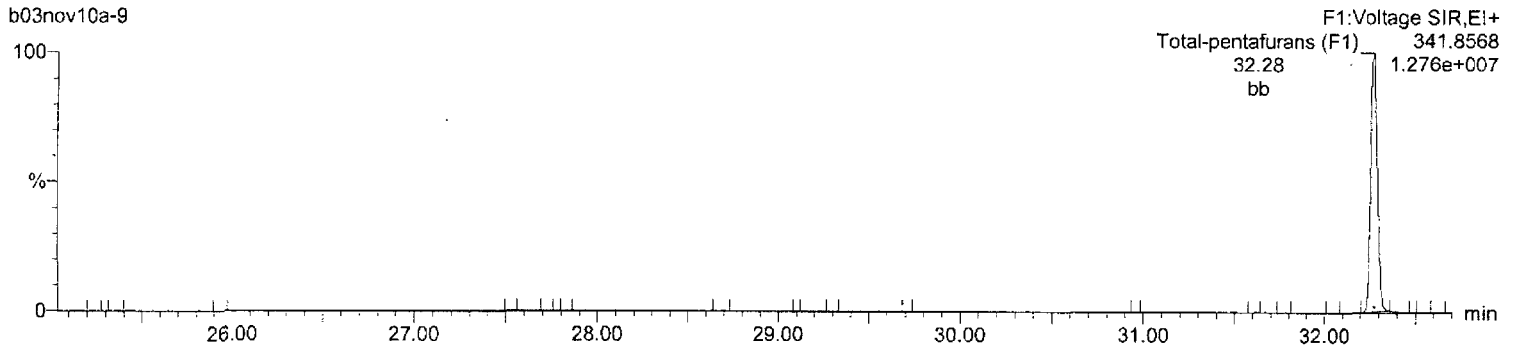
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

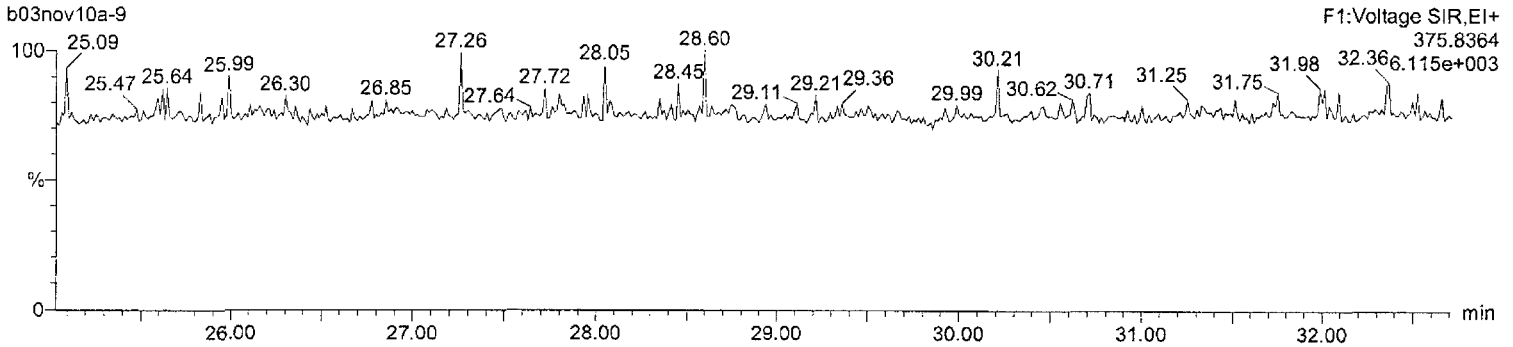
Total-pentafurans (F1)



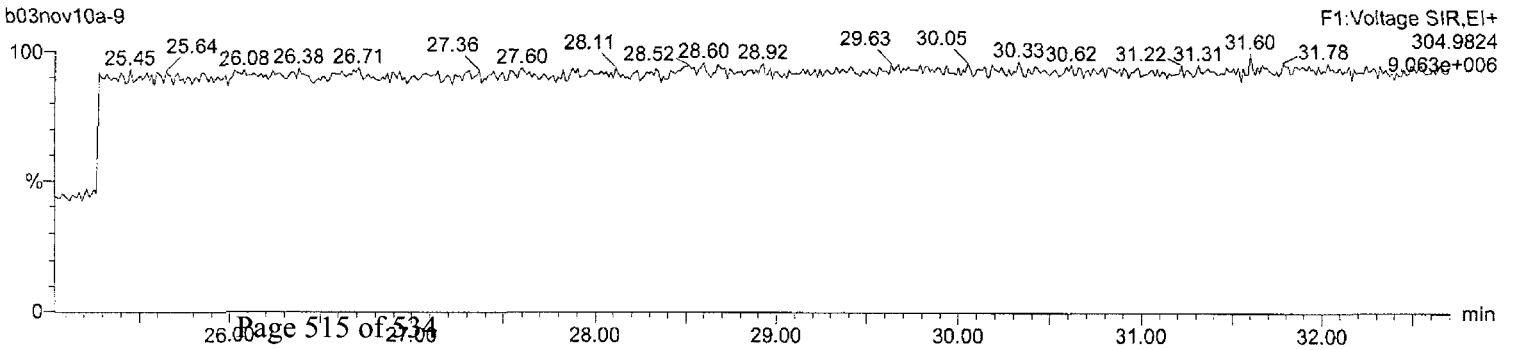
Total-pentafurans (F1)



HxDPE



Lock Mass F1



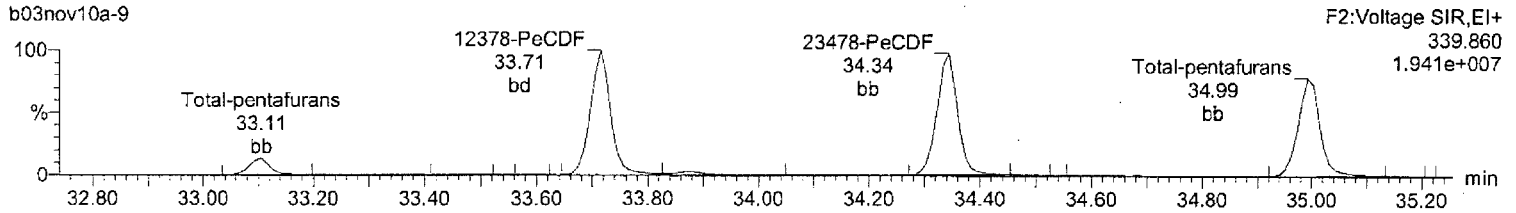
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

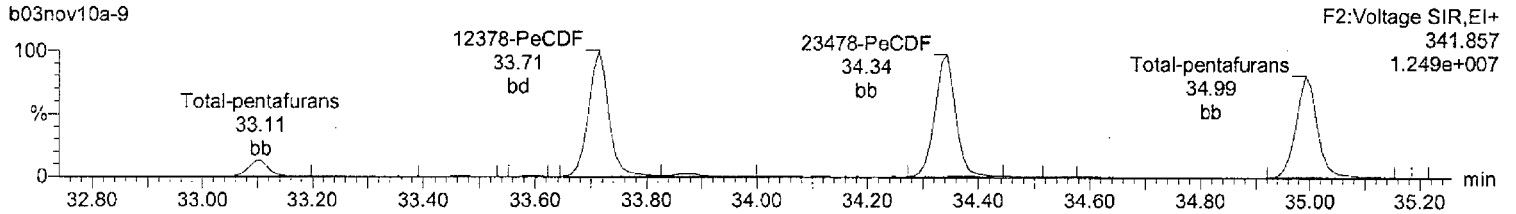
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

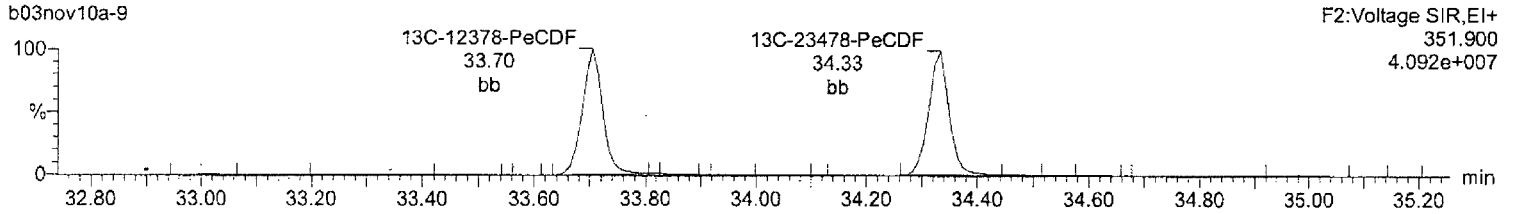
Total-pentafurans



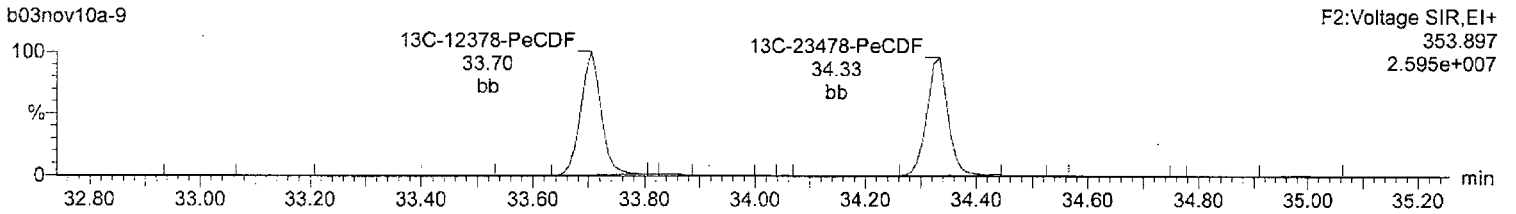
Total-pentafurans



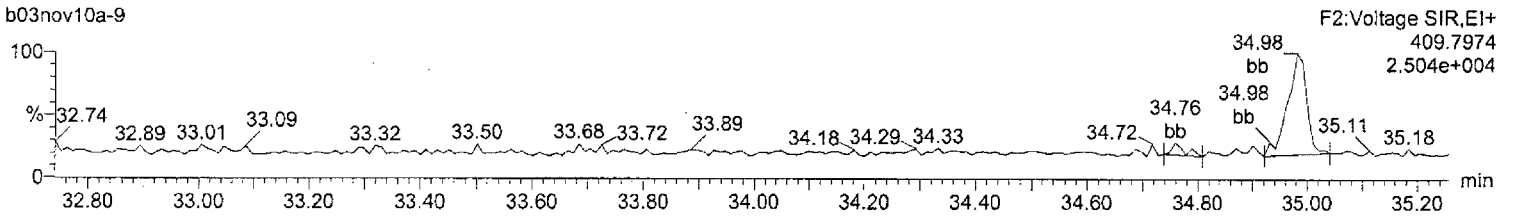
13C-12378-PeCDF



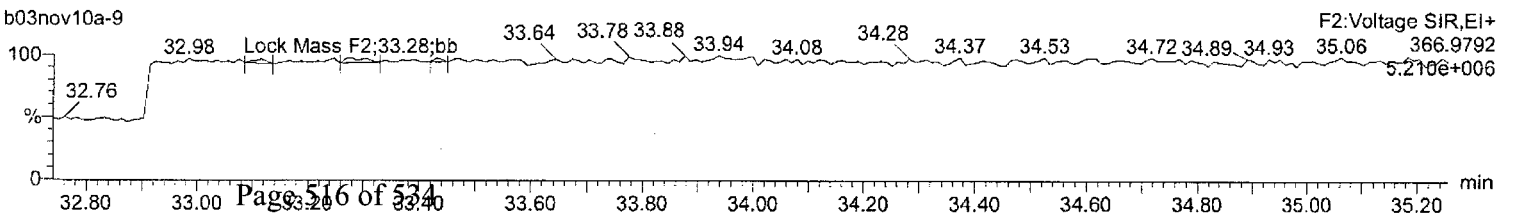
13C-12378-PeCDF



HpDPE



Lock Mass F2



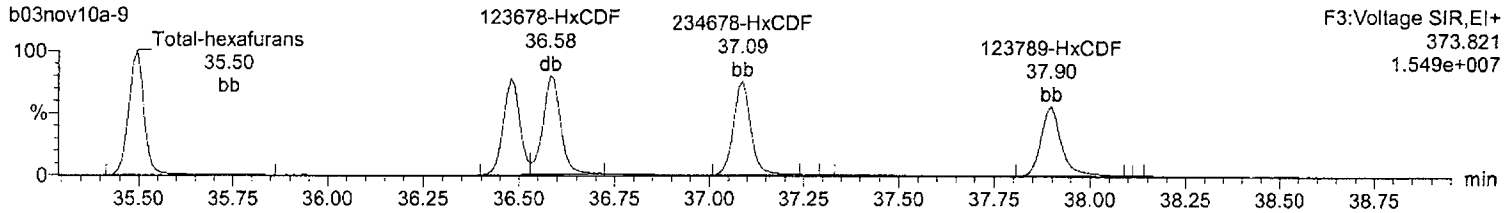
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

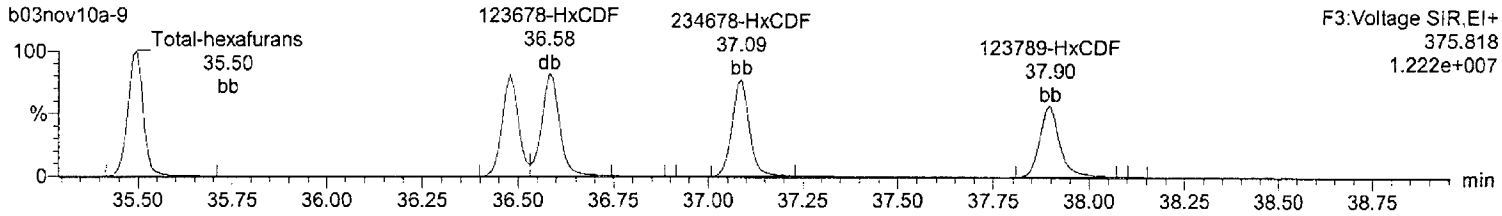
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

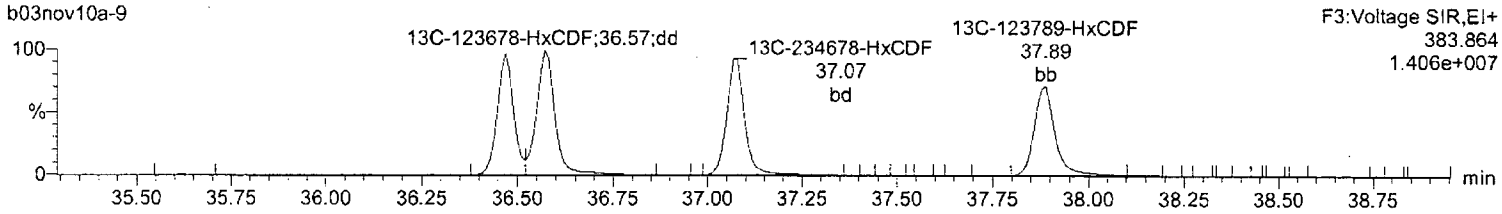
Total-hexafurans



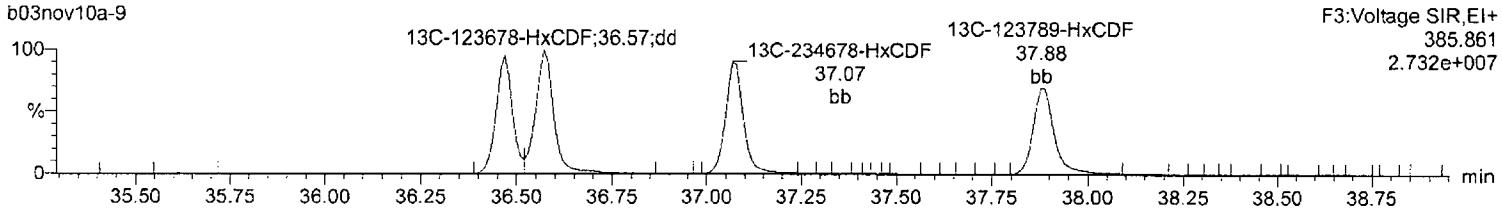
Total-hexafurans



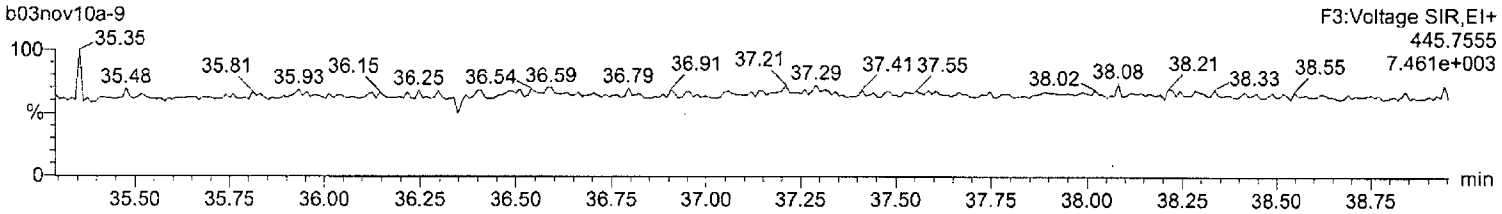
13C-123478-HxCDF



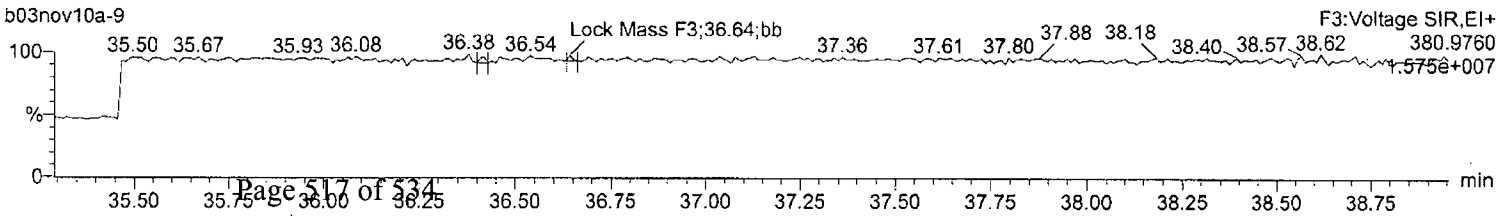
13C-123478-HxCDF



OcDPE



Lock Mass F3



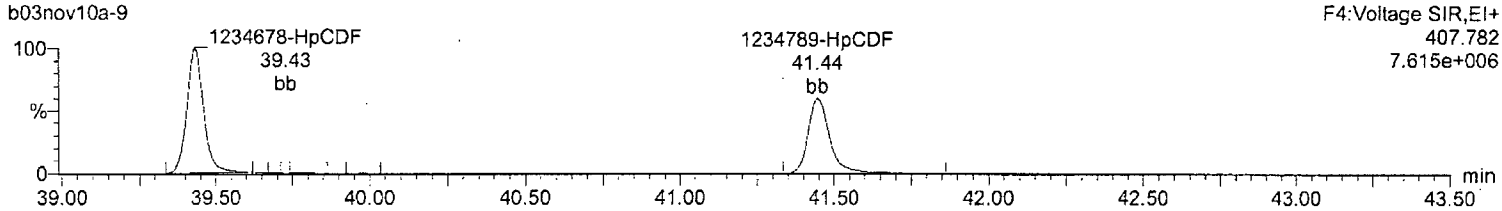
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

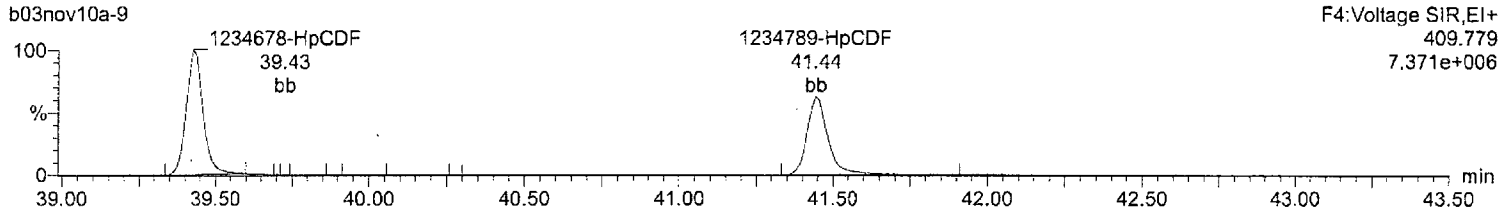
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

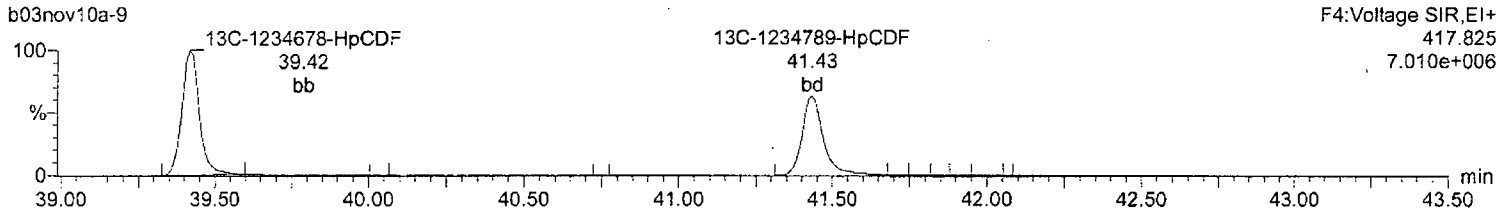
Total-heptafurans



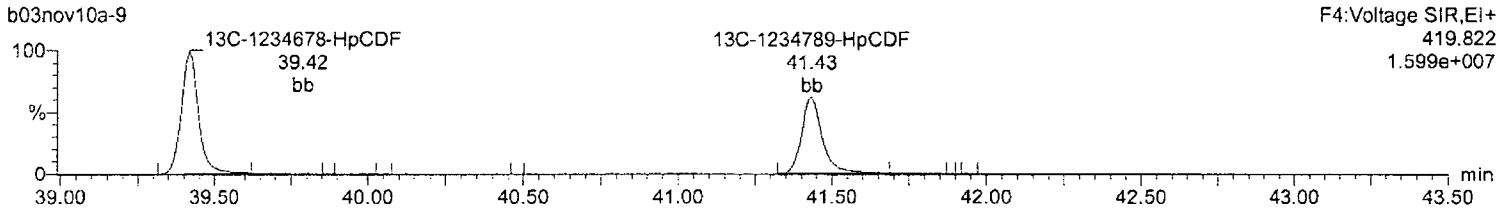
Total-heptafurans



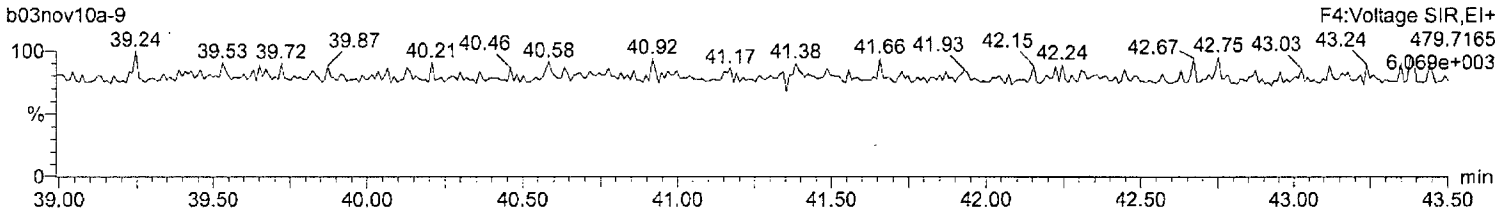
13C-1234678-HpCDF



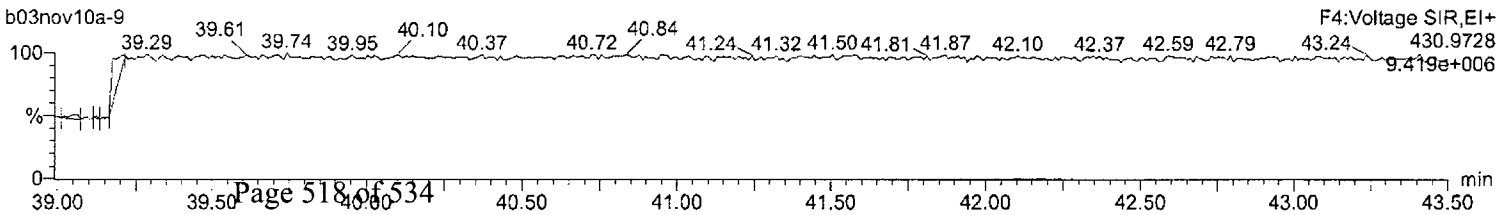
13C-1234678-HpCDF



NoDPE



Lock Mass F4



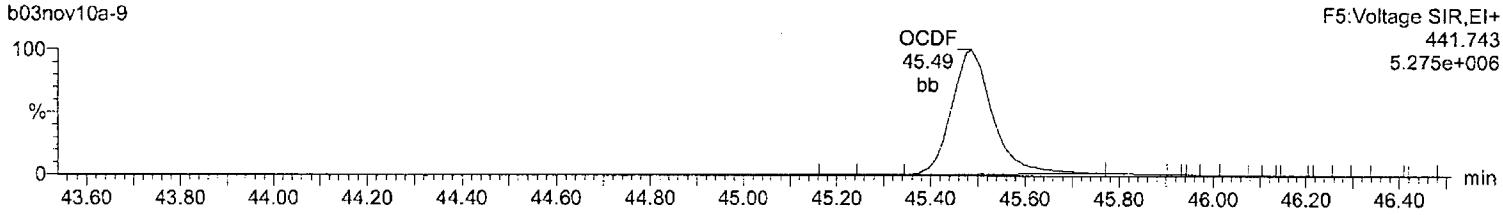
Quantify Sample Report **MassLynx 4.1**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\1613-b03nov10a-9.qld

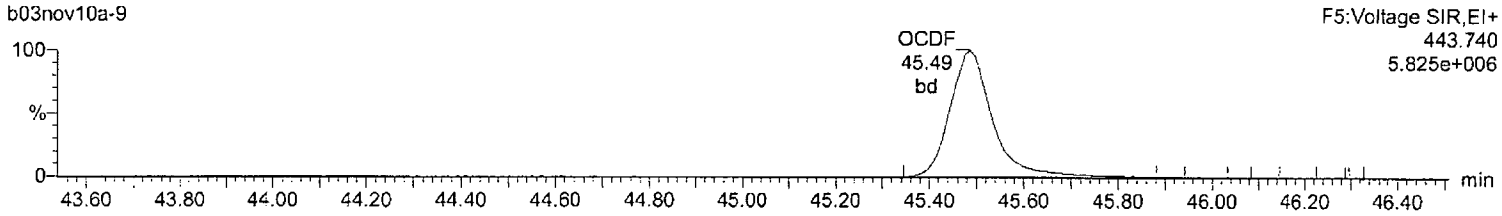
Last Altered: Wednesday, November 03, 2010 15:50:52 Eastern Standard Time
Printed: Wednesday, November 03, 2010 15:51:41 Eastern Standard Time

Name: b03nov10a-9, Date: 03-Nov-2010, Time: 14:58:55, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a, Task: HRP763_1, User: MJC

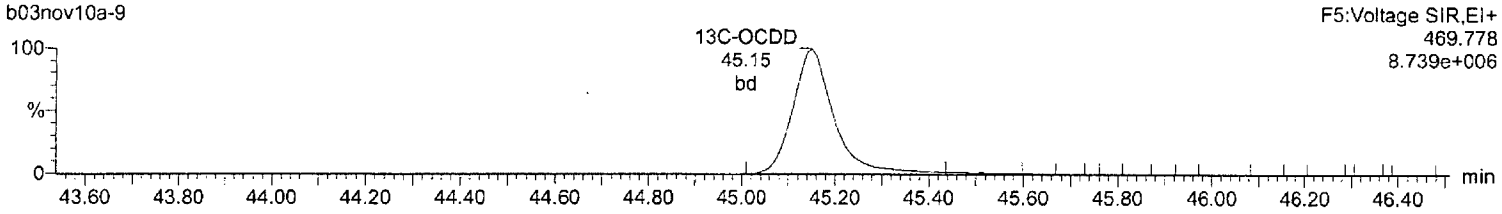
OCDF



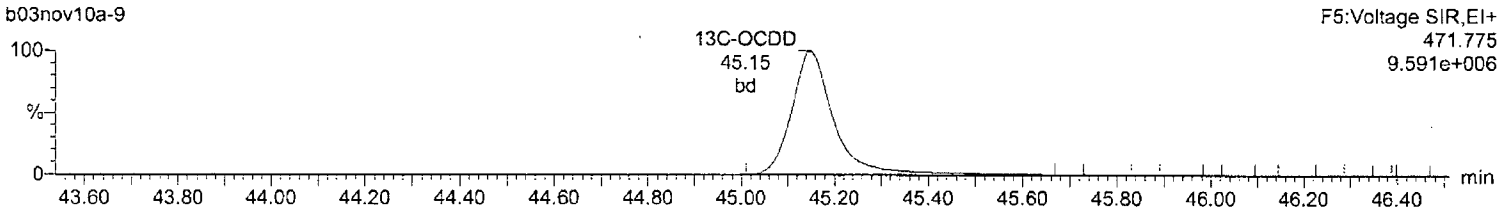
OCDF



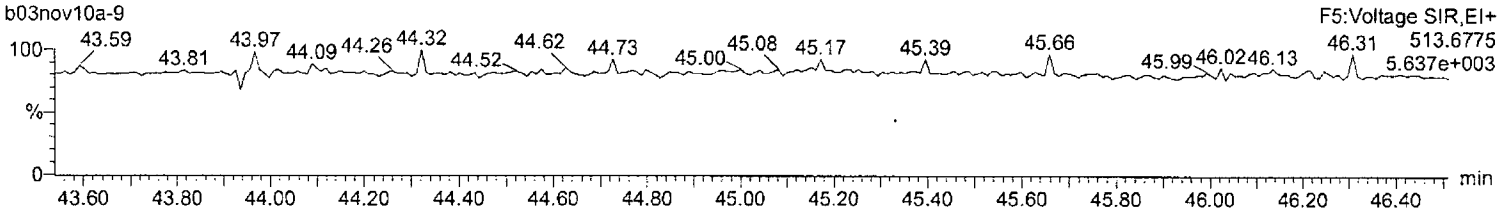
13C-OCDD



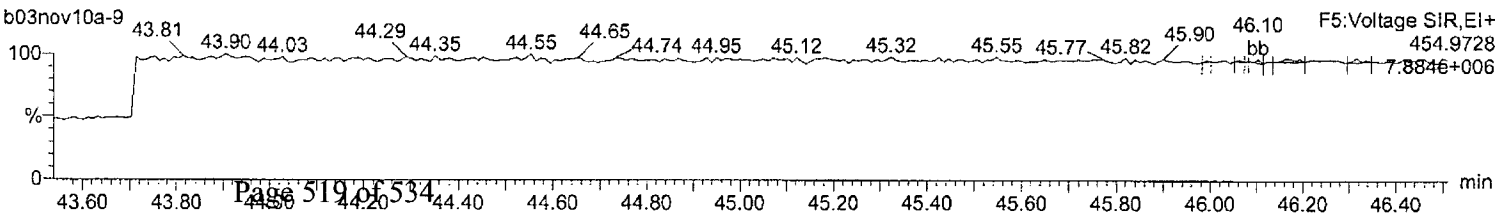
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
1	2378-TCDD	9.31e4	1.19e5	2.12e5	31.74	1.000	0.78	NO	10.652	0.0219	1.079	6.5	1.91e6	1134	1683.4	2.41e6	1781	1354.4	db
2	12378-PeCDD	5.19e5	3.31e5	8.51e5	34.53	1.000	1.57	NO	50.334	0.0591	1.039	0.7	1.17e7	3708	3166.3	7.36e6	3898	1886.8	bb
3	123478-HxCDD	4.04e5	3.22e5	7.26e5	37.22	0.998	1.25	NO	51.015	0.122	0.915	2.0	8.10e6	5853	1383.5	6.37e6	4830	1318.0	bd
4	123678-HxCDD	4.42e5	3.48e5	7.90e5	37.31	1.000	1.27	NO	51.397	0.113	0.995	2.8	7.80e6	5853	1331.9	6.19e6	4830	1281.1	db
5	123789-HxCDD	4.10e5	3.24e5	7.33e5	37.56	1.007	1.27	NO	53.348	0.127	0.923	6.7	7.13e6	5853	1217.5	5.63e6	4830	1166.0	bb
6	1234678-HpCDD	3.00e5	2.90e5	5.90e5	40.74	1.000	1.03	NO	51.217	0.135	1.029	2.4	4.12e6	2889	1425.4	3.82e6	4064	940.7	bb
7	OCDD	4.49e5	5.10e5	9.59e5	45.17	1.000	0.88	NO	102.867	0.304	1.024	2.9	4.44e6	2965	1496.7	4.91e6	6190	793.4	bd
8	2378-TCDF	1.30e5	1.69e5	2.99e5	31.21	1.000	0.77	NO	9.308	0.0166	0.915	-6.9	2.28e6	1489	1533.7	3.02e6	1517	1988.1	bb
9	12378-PeCDF	8.06e5	5.24e5	1.33e6	33.71	1.000	1.54	NO	49.422	0.0570	0.923	-1.2	1.90e7	6906	2754.1	1.22e7	4840	2516.7	bd
10	23478-PeCDF	8.01e5	5.19e5	1.32e6	34.34	1.019	1.54	NO	50.110	0.0582	0.916	0.2	1.85e7	6906	2677.1	1.17e7	4840	2415.5	bb
11	123478-HxCDF	5.91e5	4.83e5	1.07e6	36.48	0.998	1.22	NO	52.846	0.115	0.960	5.7	1.21e7	7387	1640.8	9.83e6	6965	1410.9	bd
12	123678-HxCDF	6.60e5	5.34e5	1.19e6	36.58	1.000	1.24	NO	50.546	0.0992	1.069	1.1	1.26e7	7387	1711.8	1.03e7	6965	1484.6	db
13	234678-HxCDF	6.02e5	4.92e5	1.09e6	37.09	1.014	1.22	NO	51.191	0.110	0.978	2.4	1.15e7	7387	1555.3	9.37e6	6965	1344.8	bb
14	123789-HxCDF	5.20e5	4.15e5	9.35e5	37.90	1.036	1.25	NO	52.840	0.132	0.837	5.7	8.62e6	7387	1167.2	7.04e6	6965	1011.2	bb
15	1234678-HpCDF	4.76e5	4.66e5	9.42e5	39.44	1.001	1.02	NO	50.213	0.0870	1.282	0.4	7.51e6	3925	1912.0	7.06e6	4349	1624.0	bb
16	1234789-HpCDF	3.71e5	3.56e5	7.26e5	41.45	1.052	1.04	NO	53.113	0.119	0.988	6.2	4.82e6	3925	1226.8	4.71e6	4349	1083.8	bb
17	OCDF	5.36e5	5.79e5	1.12e6	45.49	1.007	0.93	NO	96.742	0.145	1.192	-3.3	5.14e6	2251	2284.8	5.69e6	3139	1813.3	bd
18	13C-2378-TCDD	8.61e5	1.10e6	1.96e6	31.73	1.013	0.78	NO	94.463	0.0354	1.058	-5.5	1.73e7	2642	6547.9	2.21e7	2013	10967.8	bb
19	13C-12378-PeCDD	1.00e6	6.36e5	1.64e6	34.52	1.102	1.57	NO	92.817	0.0535	0.882	-7.2	2.29e7	2381	9614.4	1.45e7	3583	4035.6	bb
20	13C-123678-HxCDD	8.89e5	7.00e5	1.59e6	37.30	0.994	1.27	NO	97.134	0.0908	1.080	-2.9	1.64e7	4515	3628.1	1.30e7	3826	3396.0	db
21	13C-1234678-HpCDD	5.79e5	5.67e5	1.15e6	40.73	1.085	1.02	NO	97.382	0.128	0.780	-2.6	7.77e6	4422	1757.0	7.41e6	4047	1832.2	bb
22	13C-OCDD	8.89e5	9.82e5	1.87e6	45.15	1.203	0.91	NO	190.416	0.147	0.636	-4.8	8.62e6	4221	2042.1	9.62e6	3926	2451.6	bd
23	13C-2378-TCDF	1.44e6	1.82e6	3.26e6	31.19	0.996	0.79	NO	96.523	0.0198	1.758	-3.5	2.45e7	2161	11334.5	3.03e7	2062	14693.8	bb
24	13C-12378-PeCDF	1.77e6	1.11e6	2.88e6	33.70	1.076	1.60	NO	91.634	0.0607	1.551	-8.4	4.07e7	6686	6090.2	2.56e7	5367	4768.4	bd
25	13C-123678-HxCDF	7.67e5	1.47e6	2.23e6	36.57	0.974	0.52	NO	93.187	0.108	1.519	-6.8	1.41e7	5735	2457.7	2.70e7	8831	3053.9	dd
26	13C-1234678-HpCDF	4.62e5	1.01e6	1.47e6	39.42	1.050	0.46	NO	92.476	0.104	0.999	-7.5	7.02e6	4631	1515.4	1.56e7	4621	3375.0	bb
27	13C-1234-TCDD	8.21e5	1.04e6	1.86e6	31.33	0.000	0.79	NO	100.000	0.0397	1.000	0.0	1.56e7	2642	5895.0	1.88e7	2013	9356.8	bb
28	13C-123789-HxCDD	8.24e5	6.47e5	1.47e6	37.54	0.000	1.27	NO	100.000	0.101	1.000	0.0	1.39e7	4515	3075.9	1.12e7	3826	2929.3	bb
29	37Cl-2378-TCDD (SS)	2.18e5		2.18e5	31.73	1.000			10.510	0.0117	1.108	5.1	4.47e6	1623	2752.2				bb
30	13C-23478-PeCDF (SS)	1.67e6	1.06e6	2.74e6	34.33	1.019	1.57	NO	101.773	0.0585	0.950	1.8	3.80e7	6686	5682.5	2.38e7	5367	4432.1	bb

Quantify Sample Summary Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M
13C-123478-HxCDF (SS)	6.55e5	1.27e6	1.93e6	36.47	0.997	0.52	NO	106.527	0.131	0.863	6.5	1.33e7	5735	2327.7	2.59e7	8831	2933.5	bd
13C-123478-HxCDD (SS)	7.90e5	6.20e5	1.41e6	37.21	0.998	1.27	NO	103.076	0.0993	0.887	3.1	1.52e7	4515	3373.3	1.18e7	3826	3094.5	bd
13C-1234789-HpCDF (SS)	3.50e5	7.96e5	1.15e6	41.43	1.051	0.44	NO	103.067	0.164	0.779	3.1	4.39e6	4631	947.4	9.90e6	4621	2141.2	bd

Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

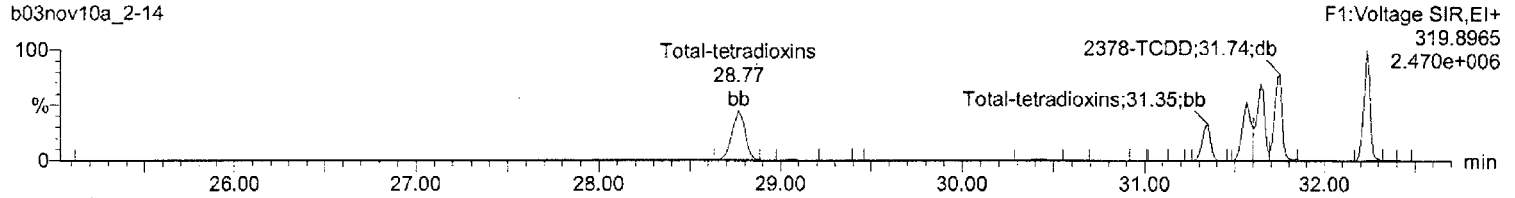
Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

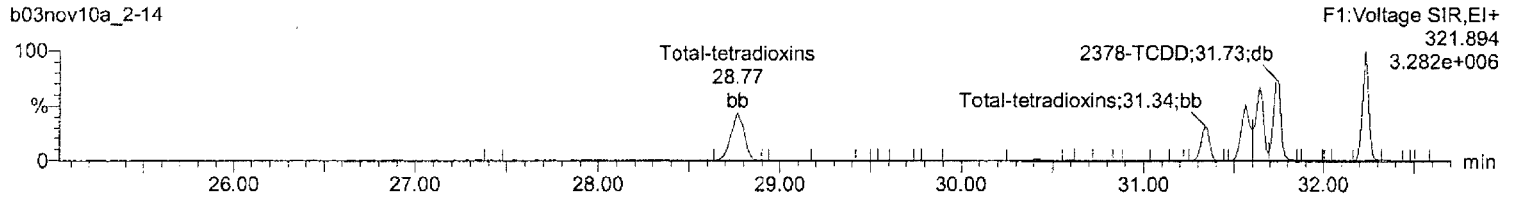
Method: C:\MassLynx\Default.pro\Methdb\CFA_EPA8290_110110.mdb 02 Nov 2010 08:23:15
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\8290-b01nov10b.cdb 02 Nov 2010 08:19:01

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

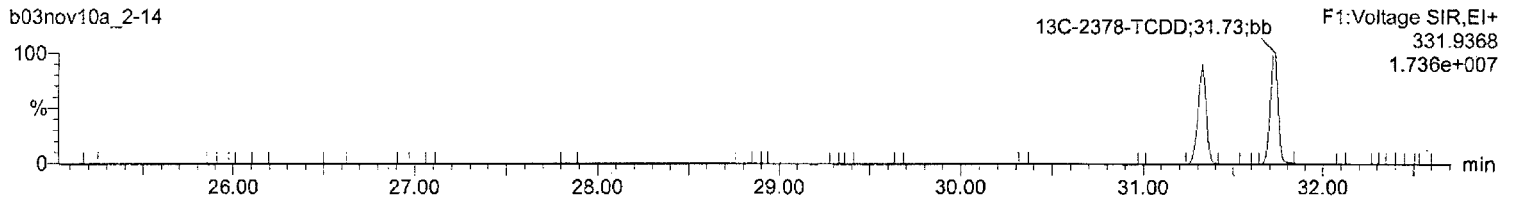
Total-tetradioxins
b03nov10a_2-14



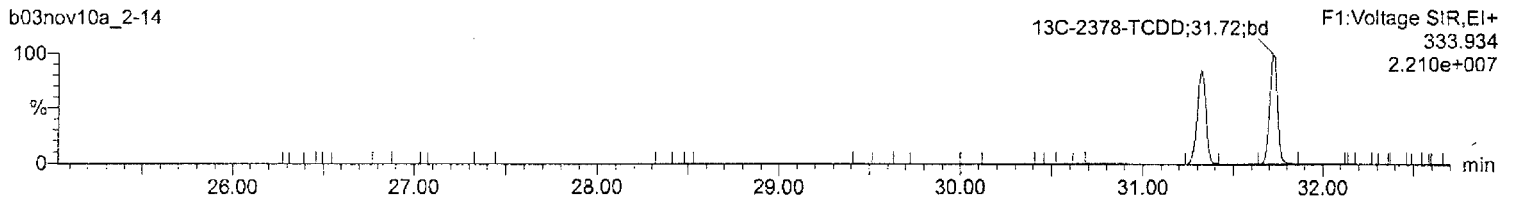
Total-tetradioxins
b03nov10a_2-14



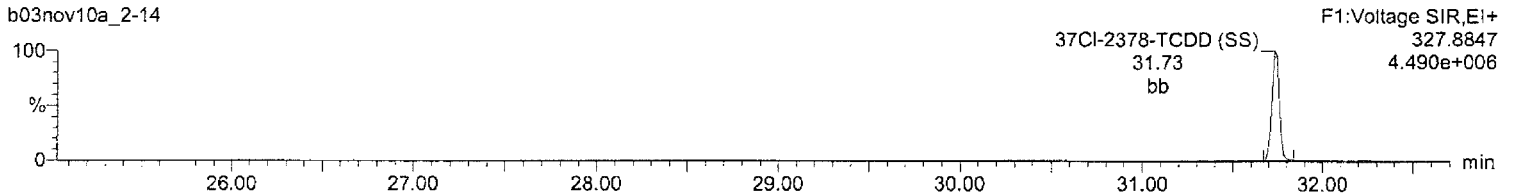
13C-2378-TCDD
b03nov10a_2-14



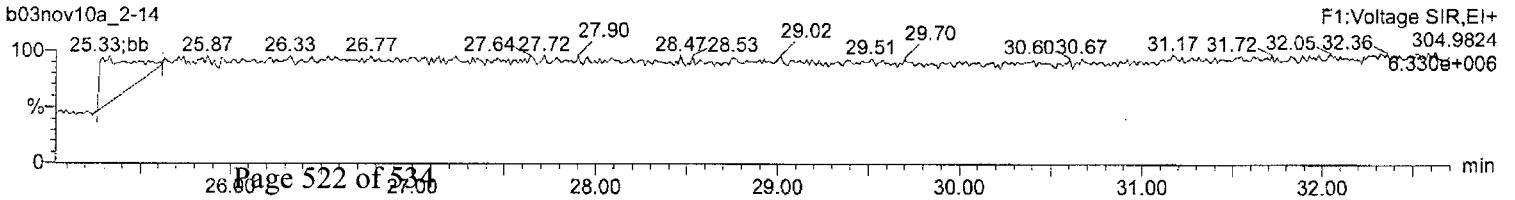
13C-2378-TCDD
b03nov10a_2-14



37Cl-2378-TCDD (SS)
b03nov10a_2-14



Lock Mass F1
b03nov10a_2-14



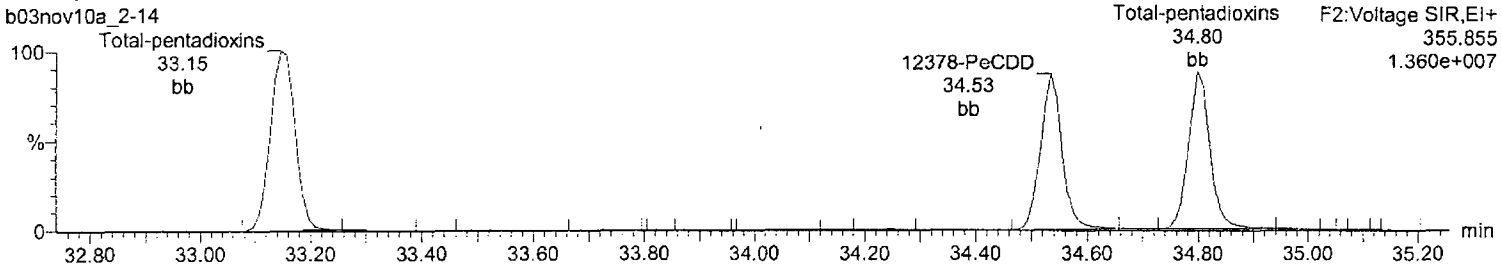
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

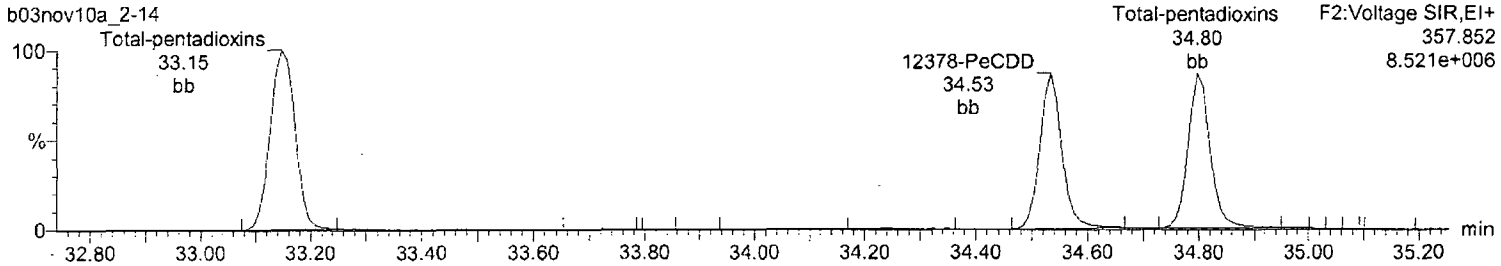
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

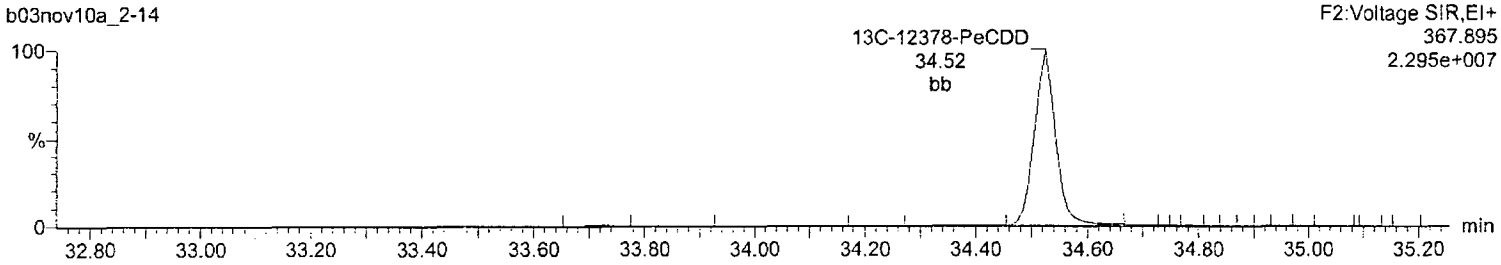
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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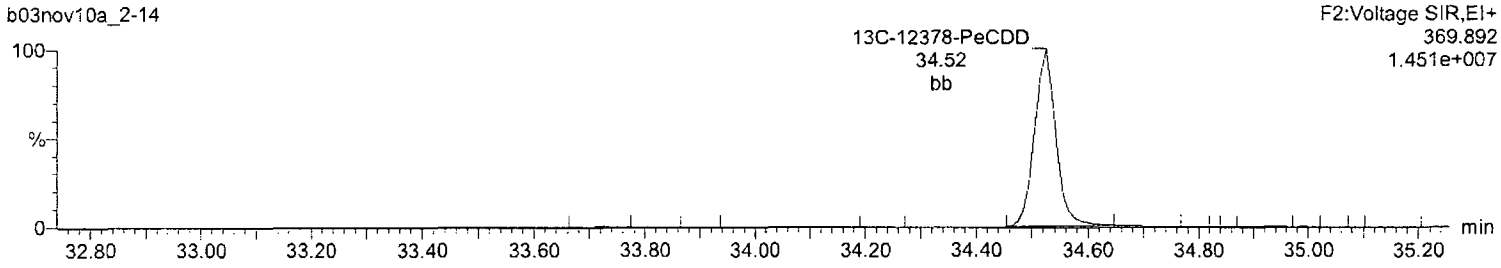
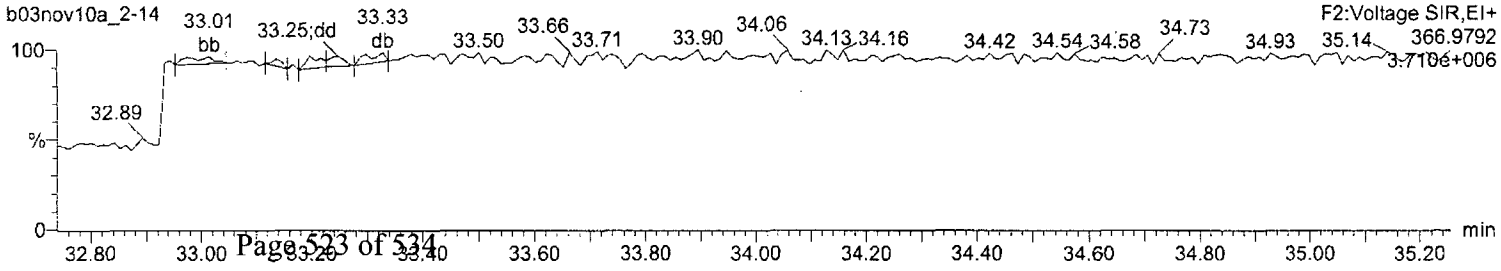


Lock Mass F2



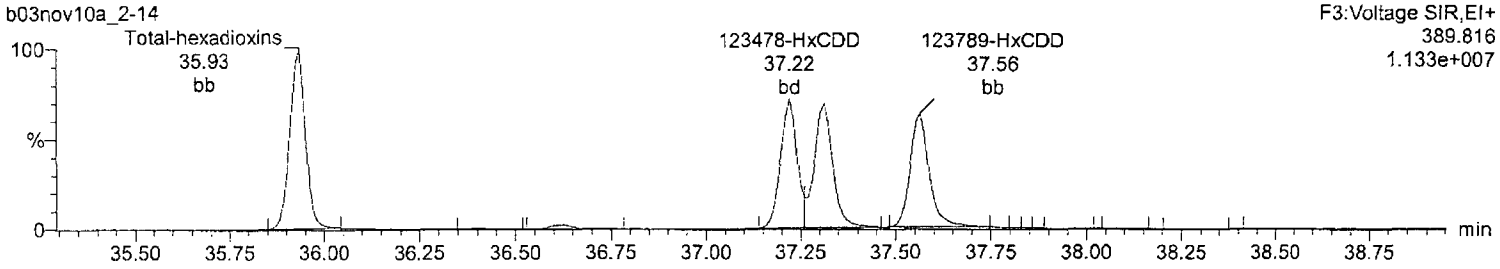
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

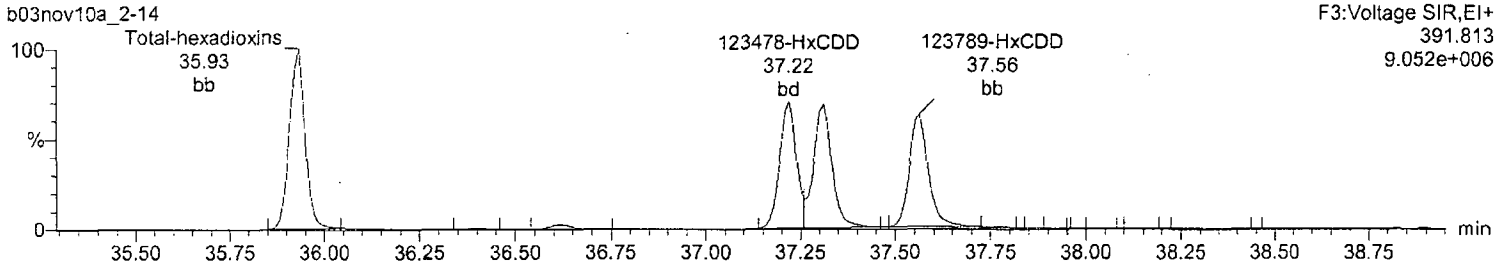
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

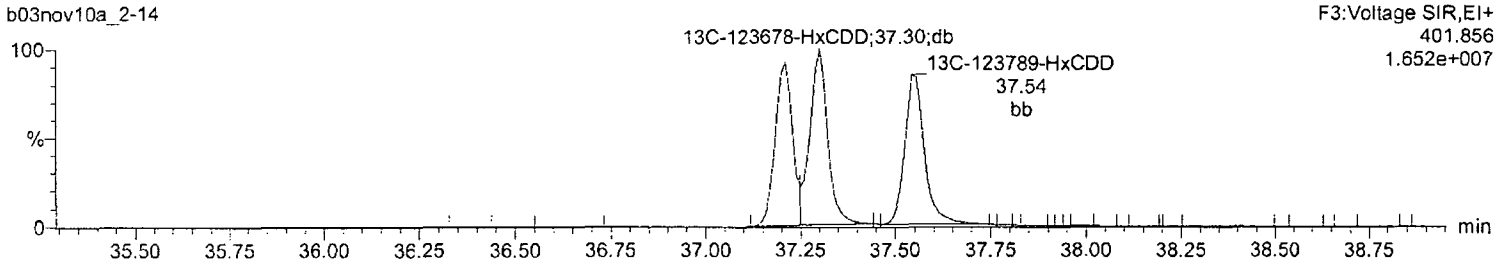
Total-hexadioxins



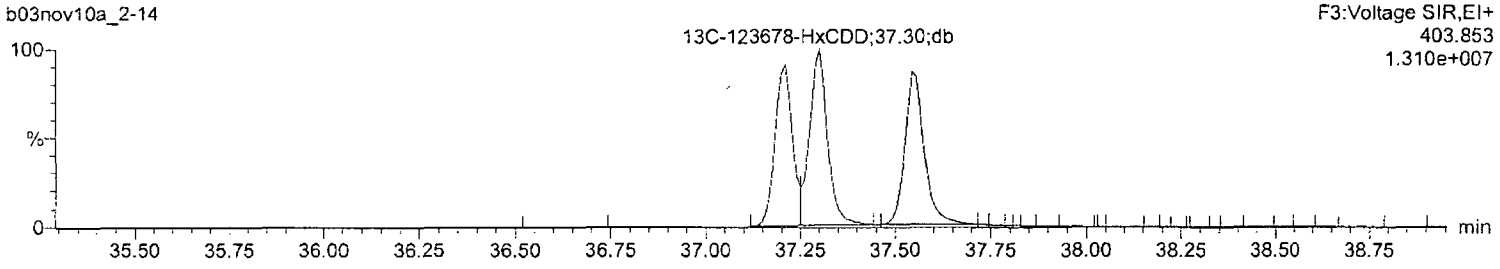
Total-hexadioxins



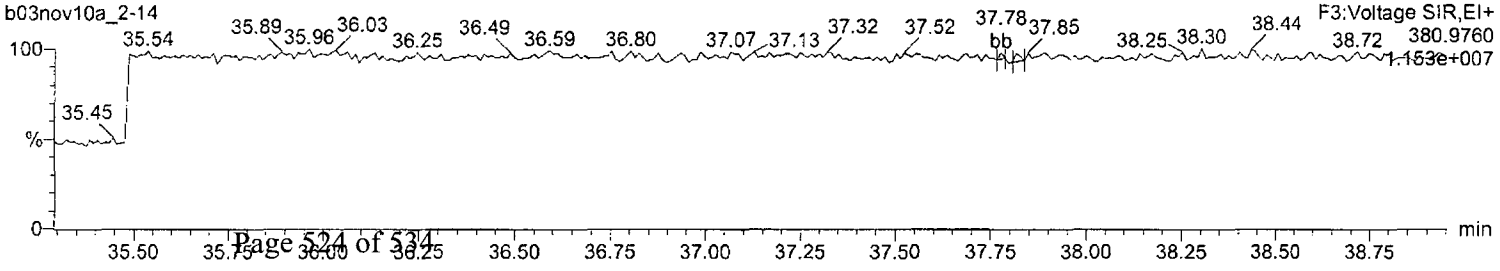
13C-123678-HxCDD



13C-123678-HxCDD



Lock Mass F3



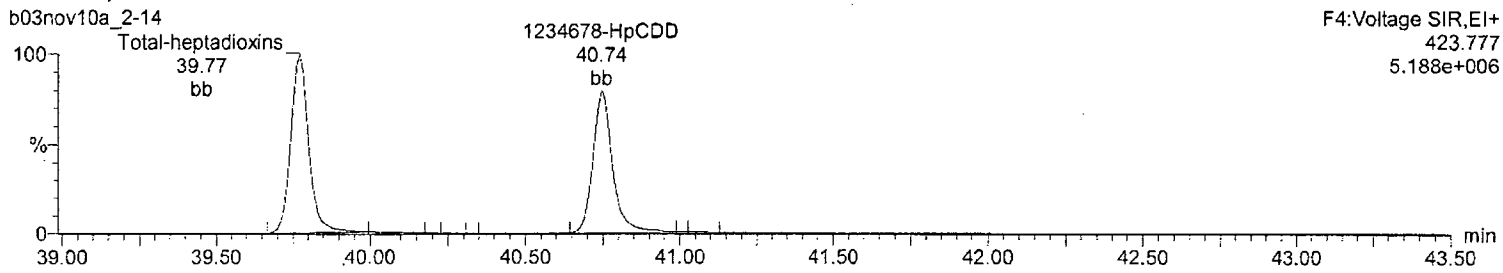
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

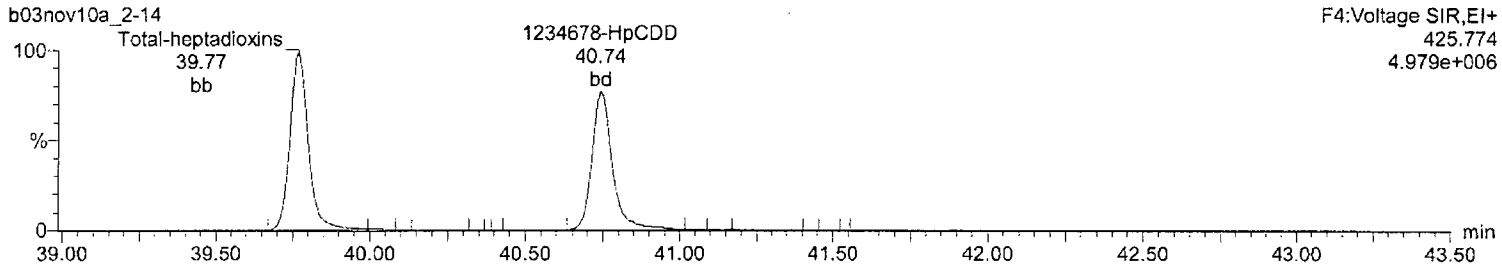
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

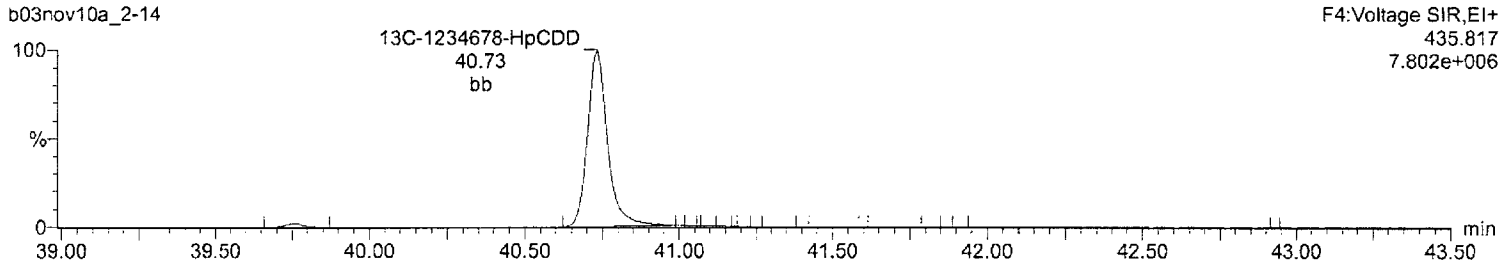
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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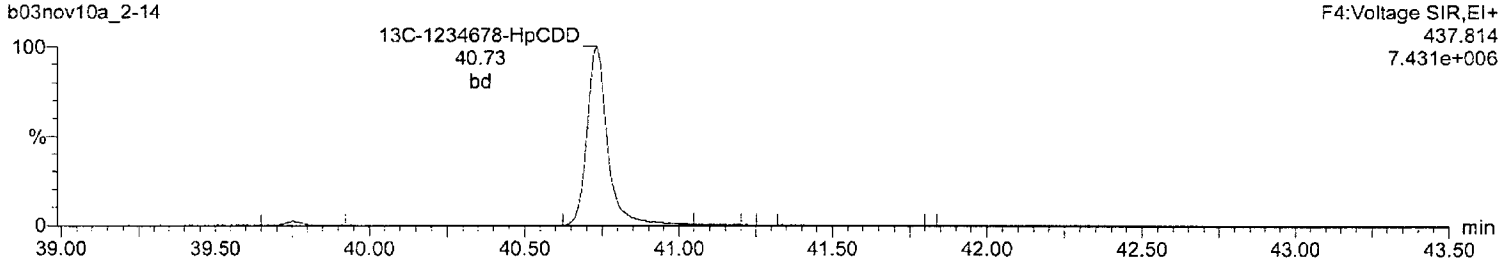
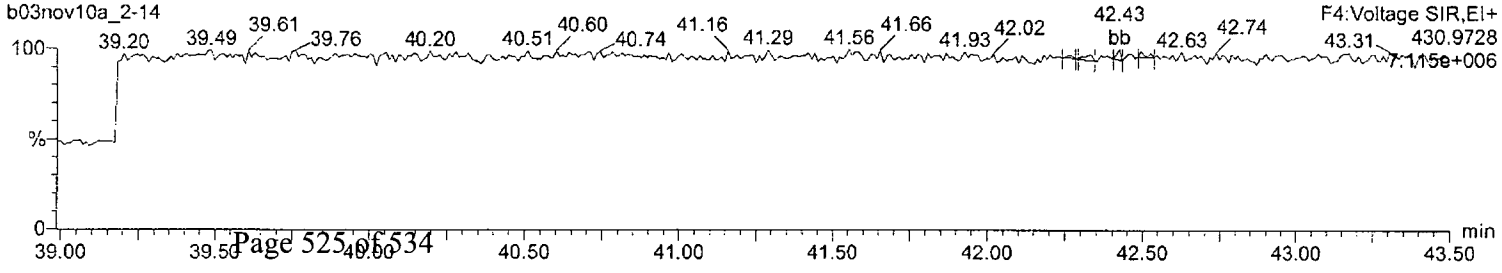


Lock Mass F4



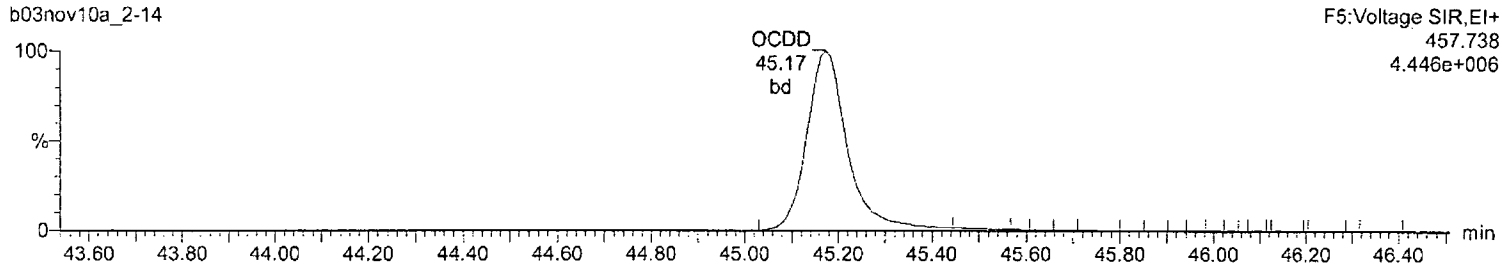
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

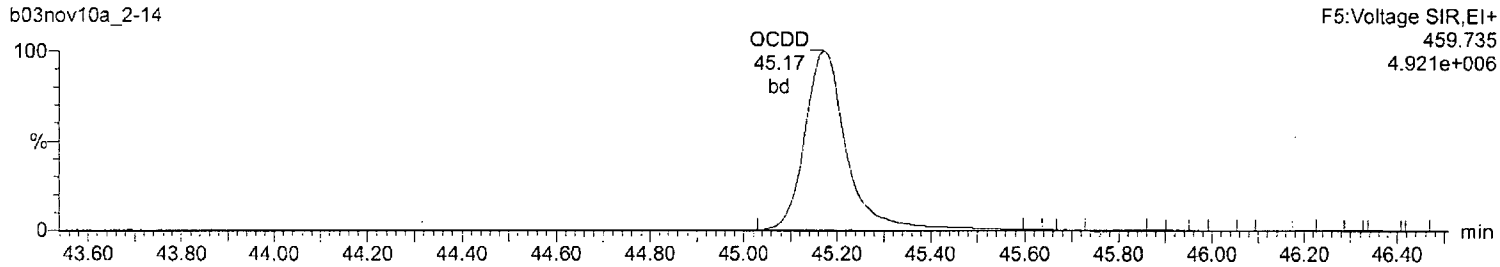
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

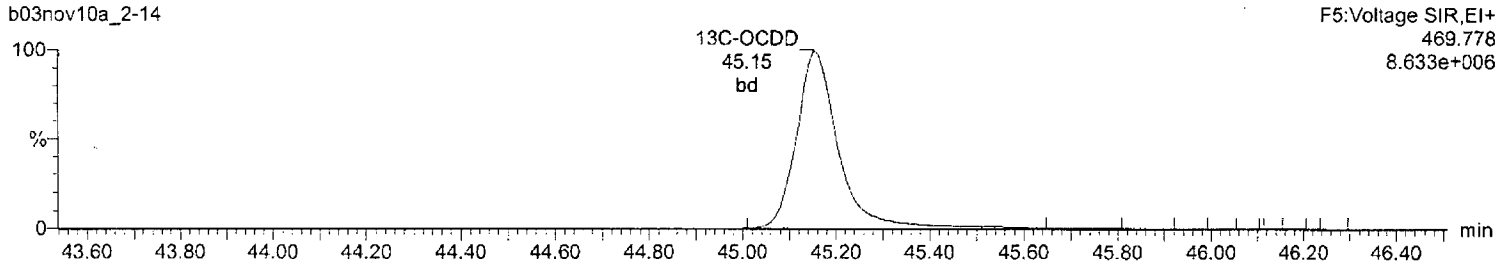
OCDD



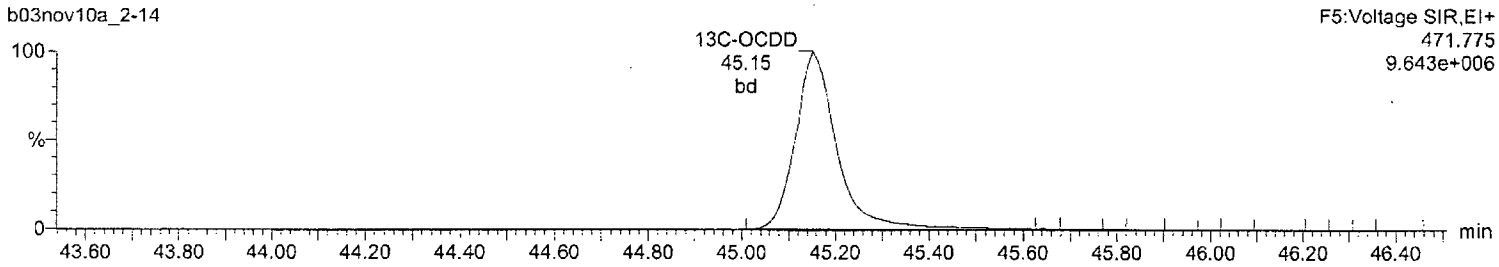
OCDD



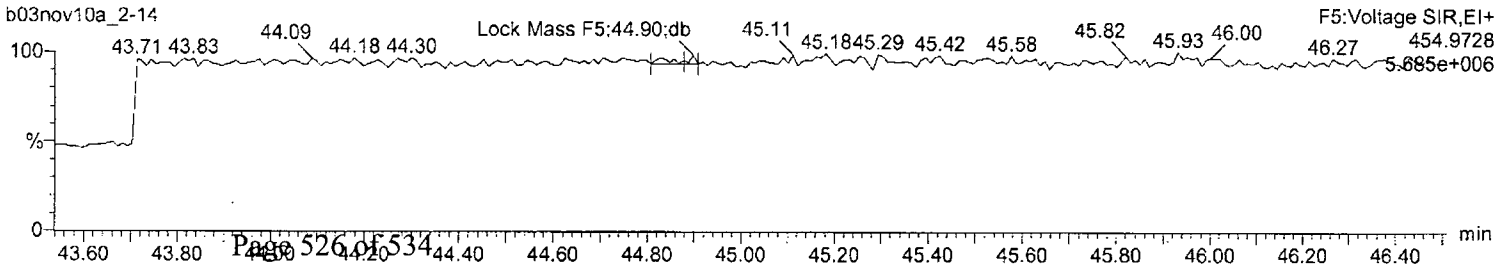
13C-OCDD



13C-OCDD



Lock Mass F5



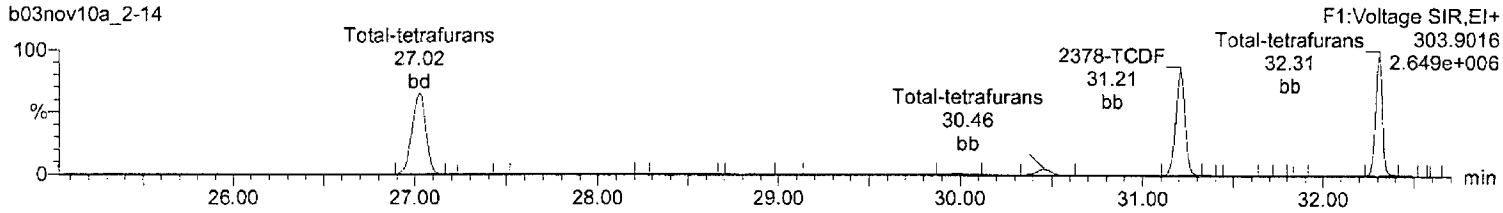
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

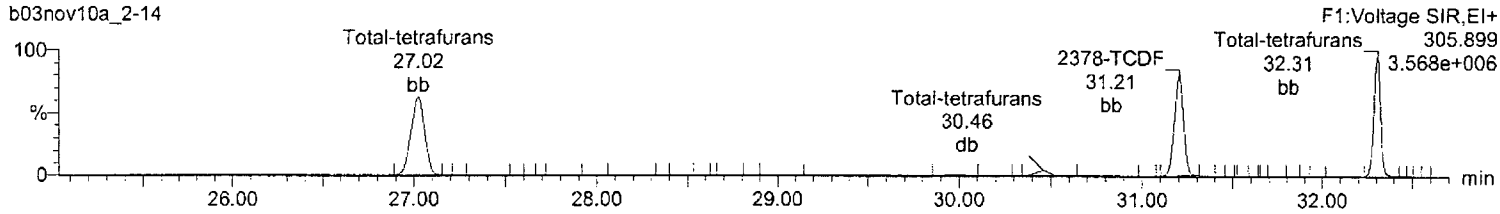
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

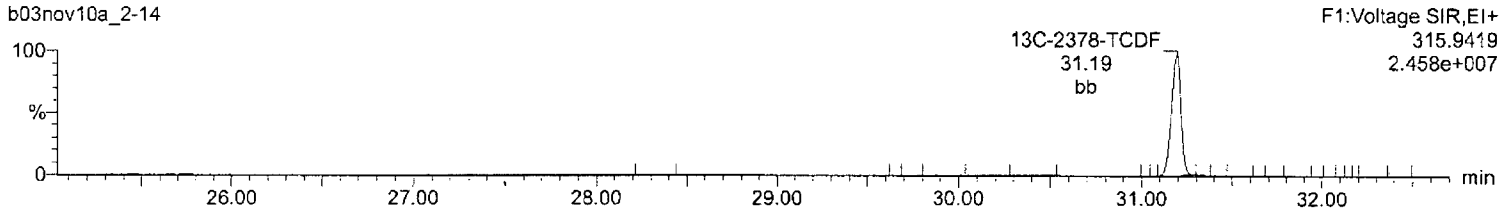
Total-tetrafurans



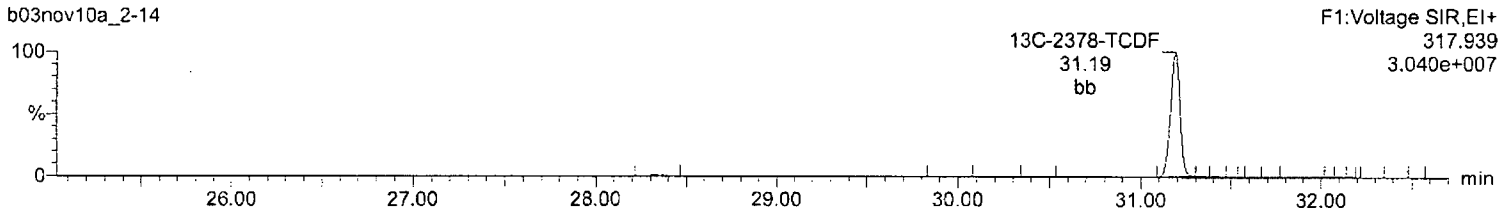
Total-tetrafurans



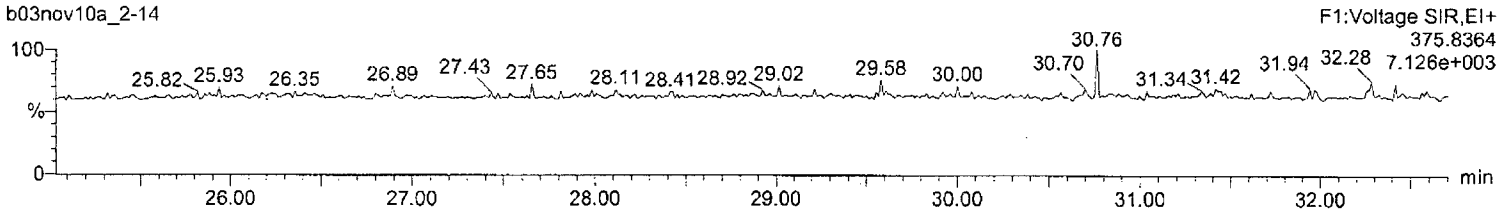
13C-2378-TCDF



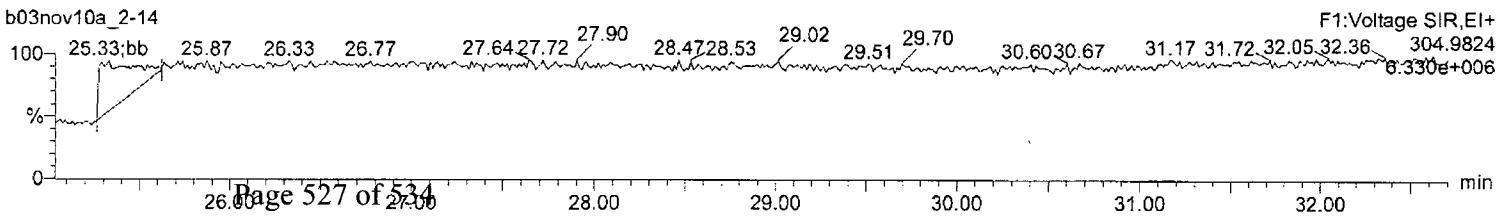
13C-2378-TCDF



HxDPE



Lock Mass F1



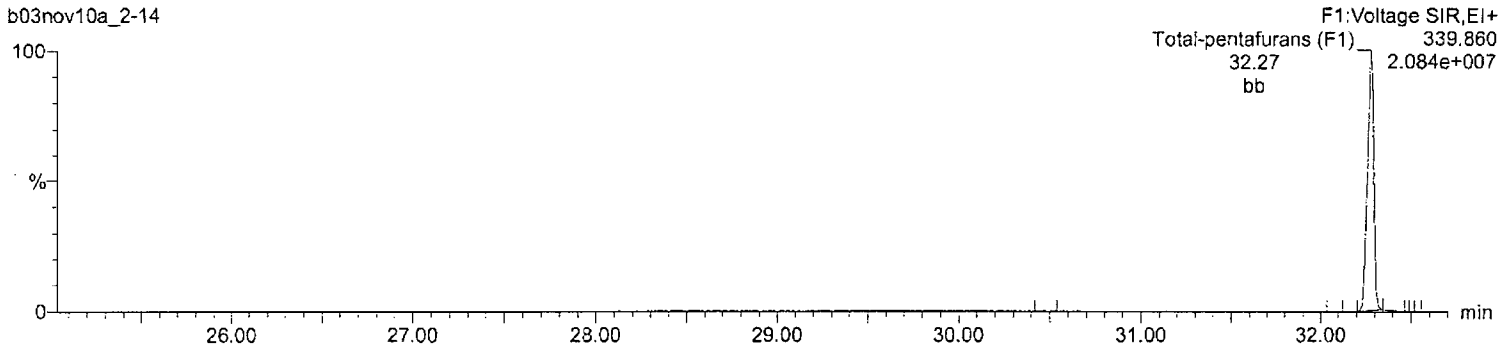
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

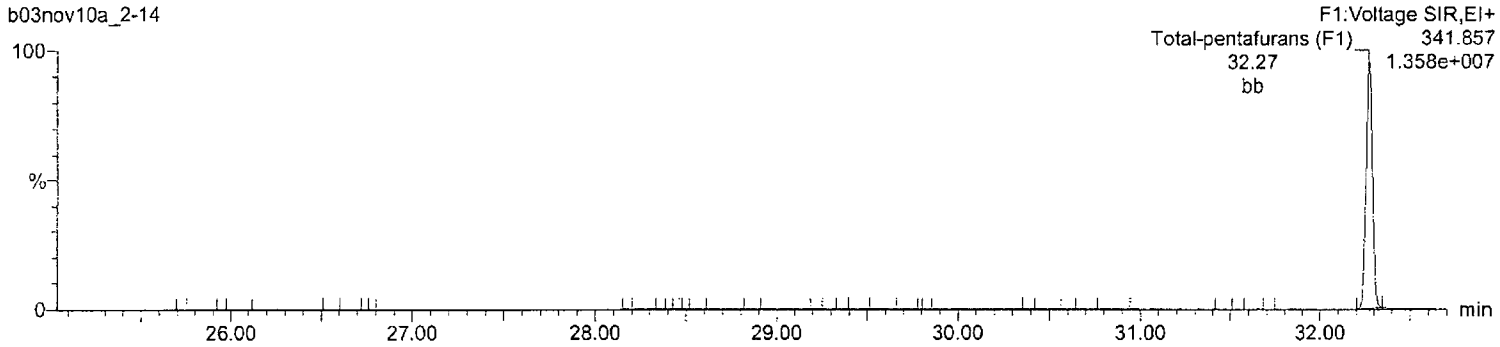
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

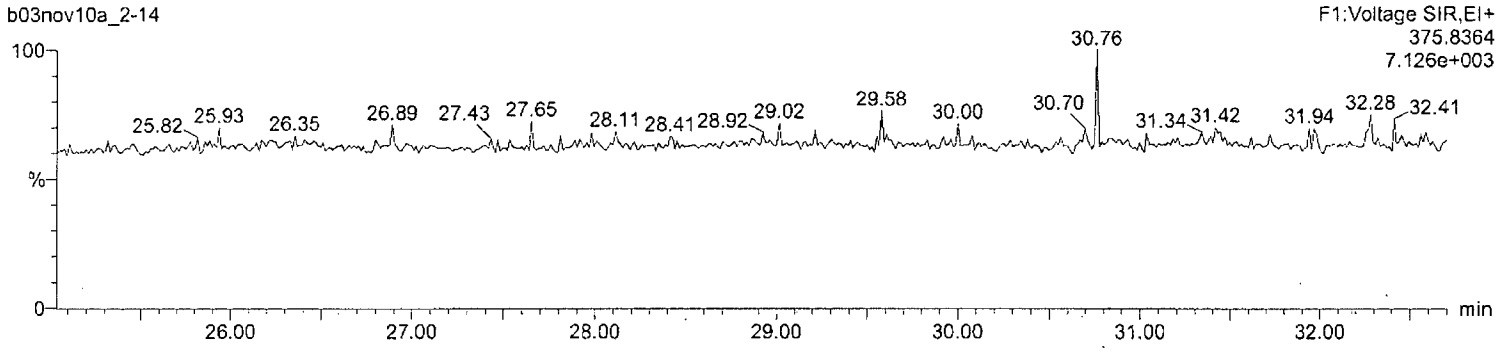
Total-pentafurans (F1)



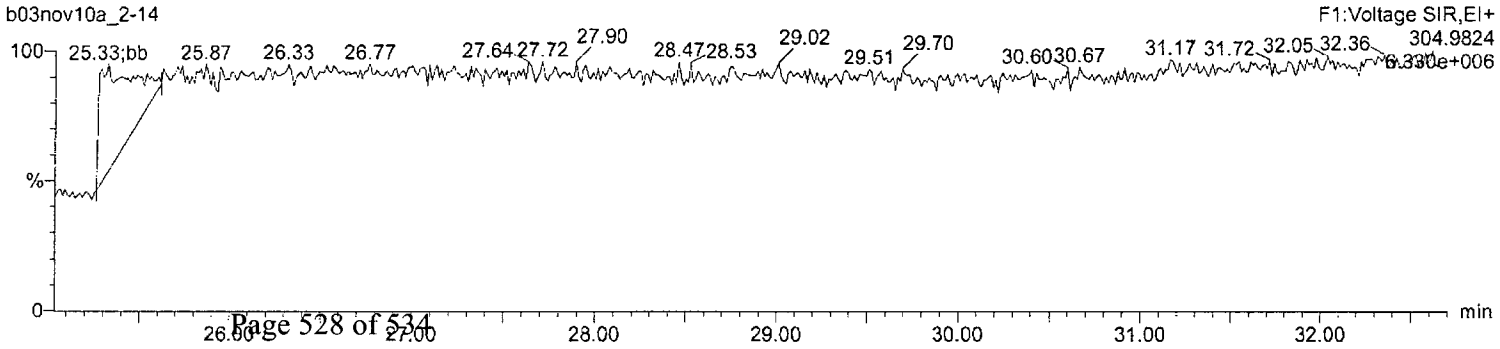
Total-pentafurans (F1)



HxDPE



Lock Mass F1



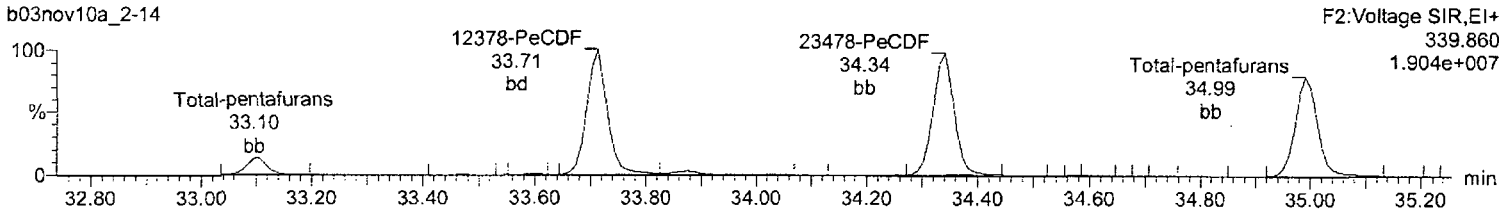
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

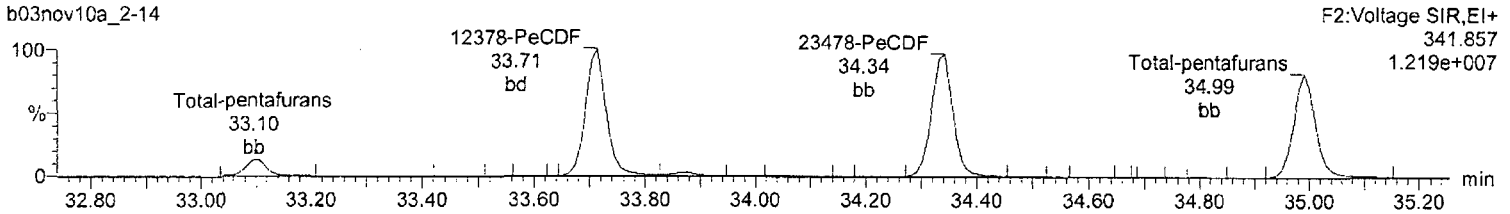
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

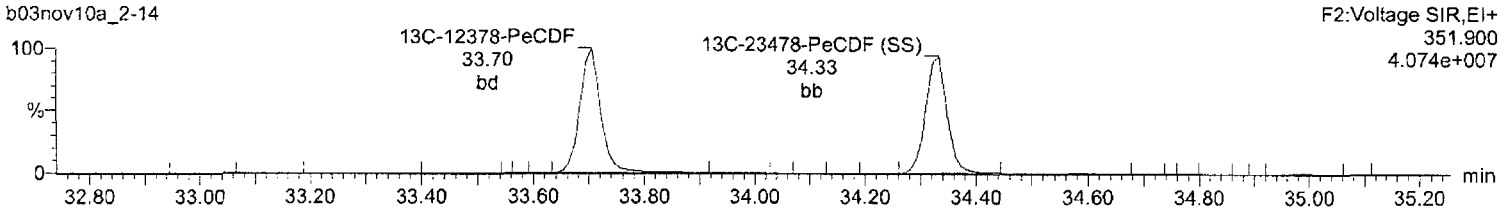
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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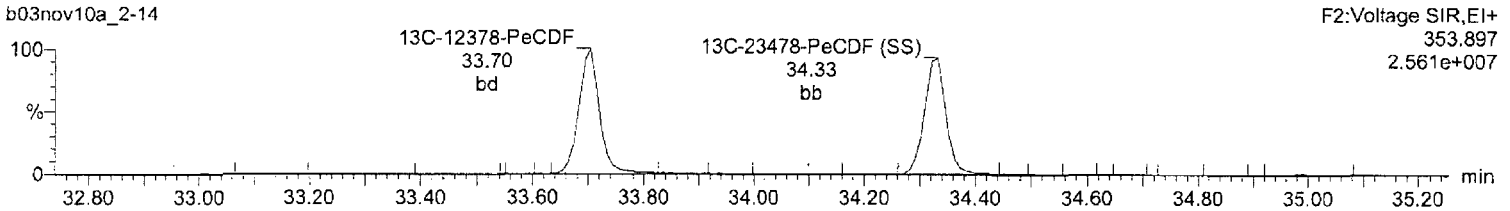
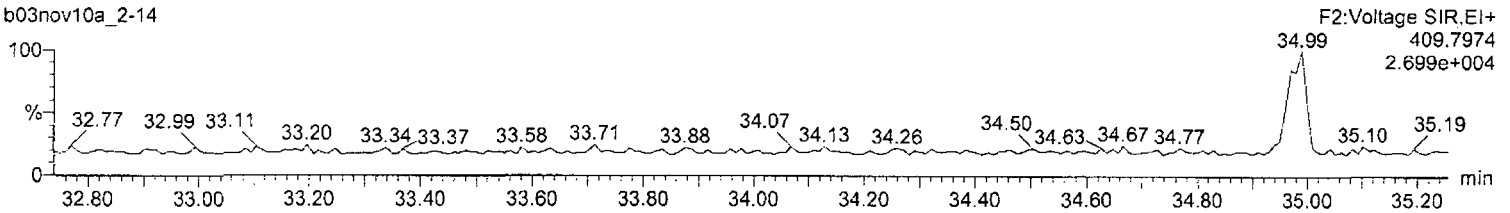
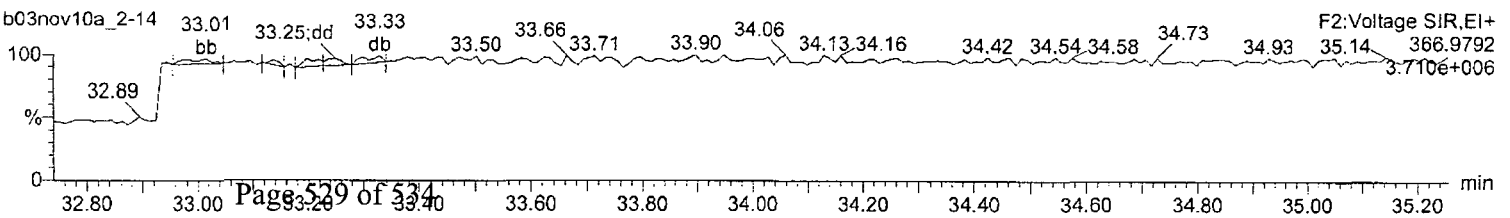


HpDPE



Lock Mass F2



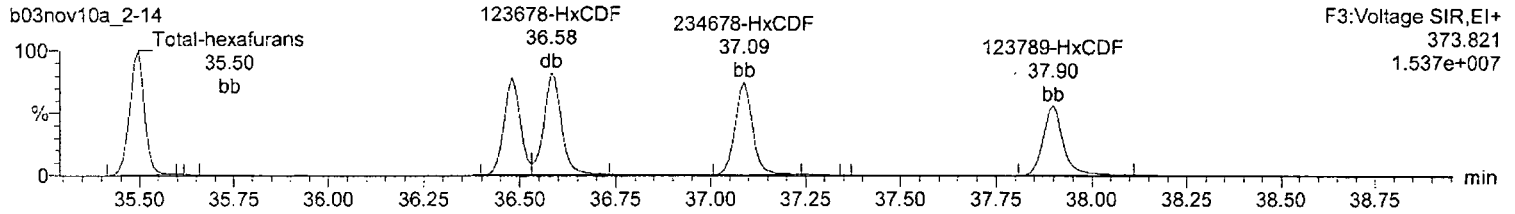
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

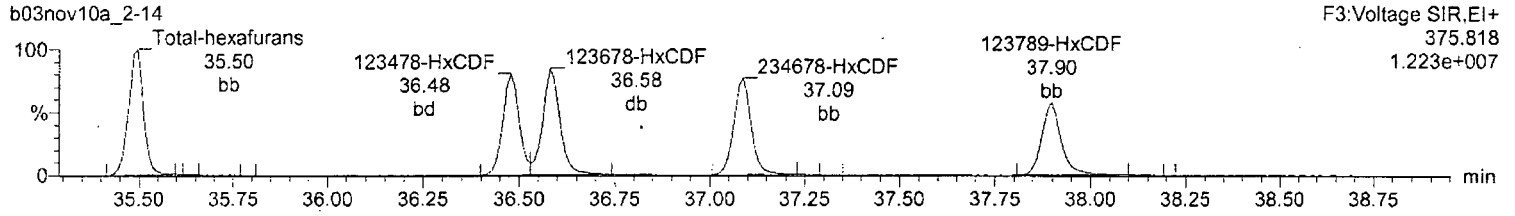
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

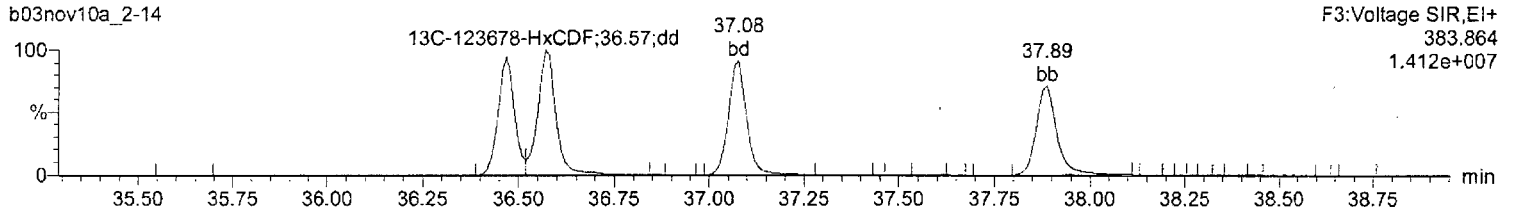
Total-hexafurans



Total-hexafurans



13C-123678-HxCDF



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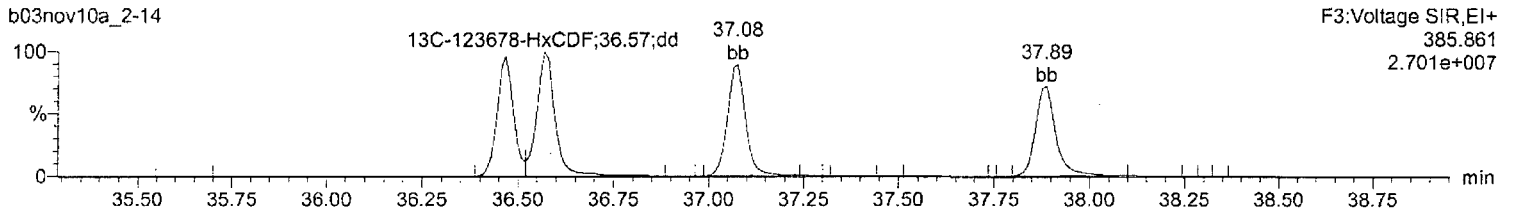
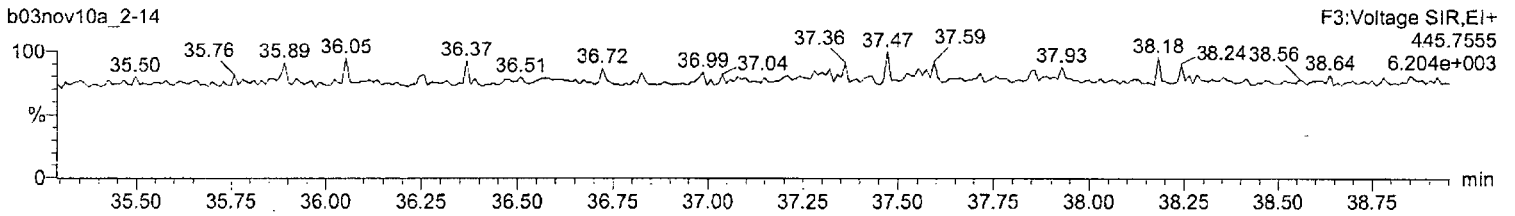
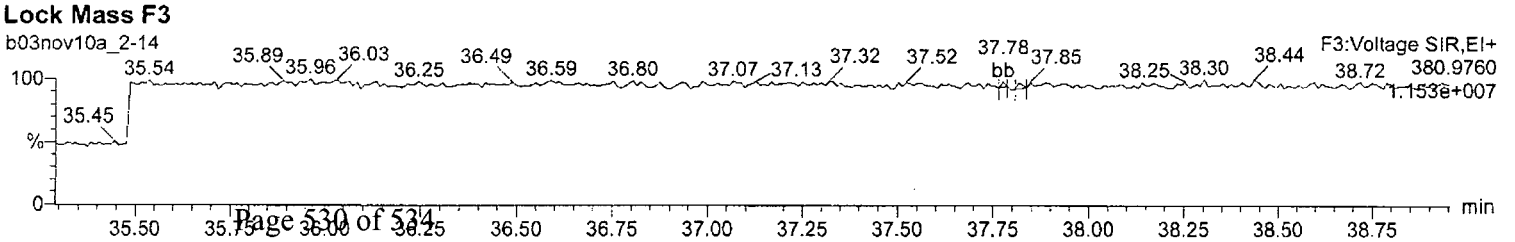


OcDPE



Lock Mass F3



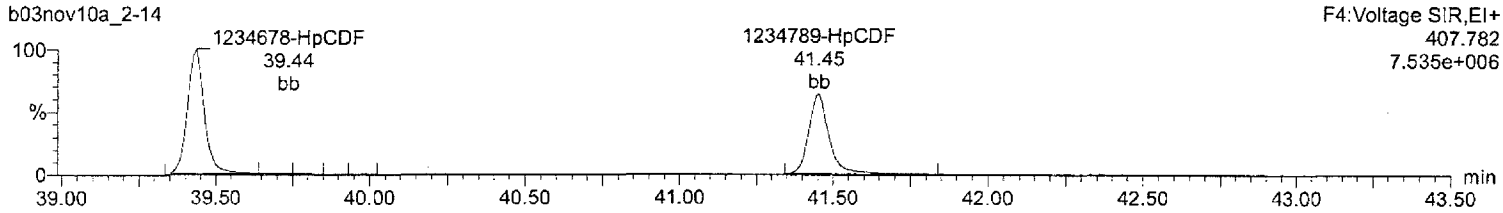
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

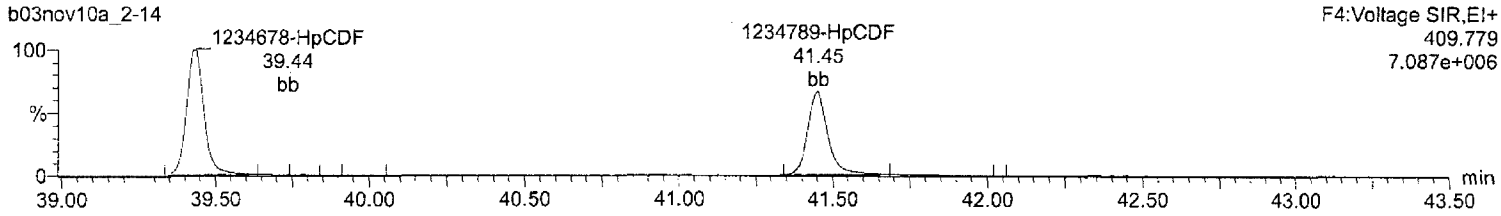
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

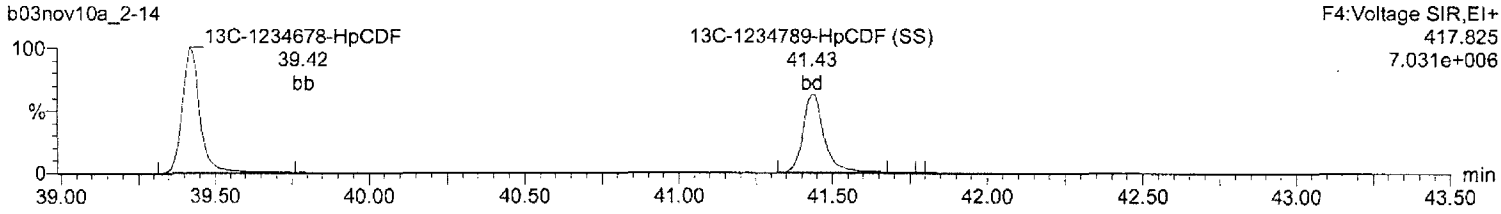
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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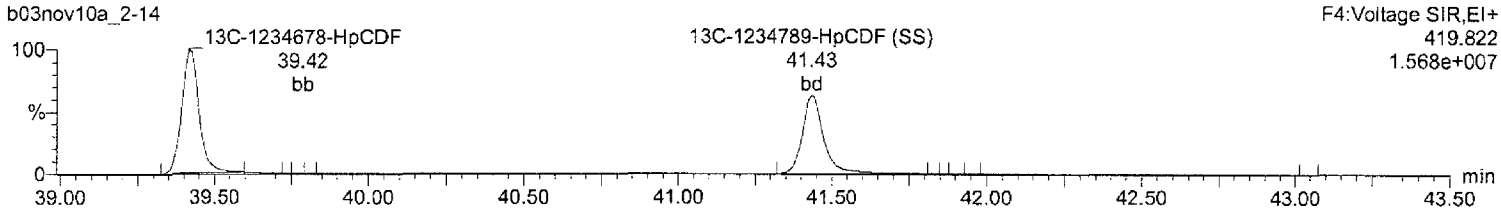
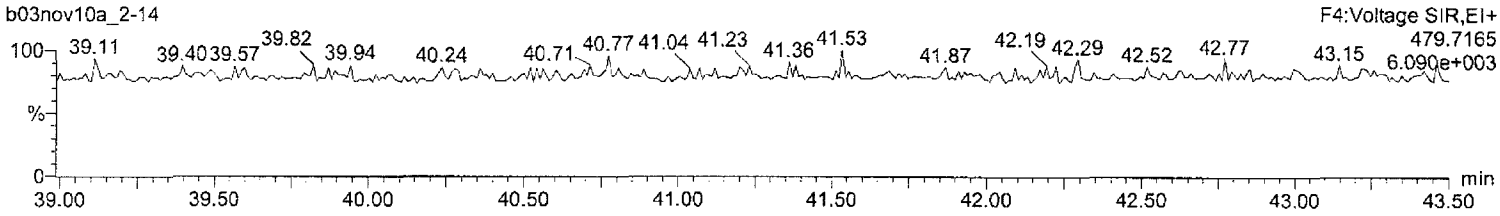
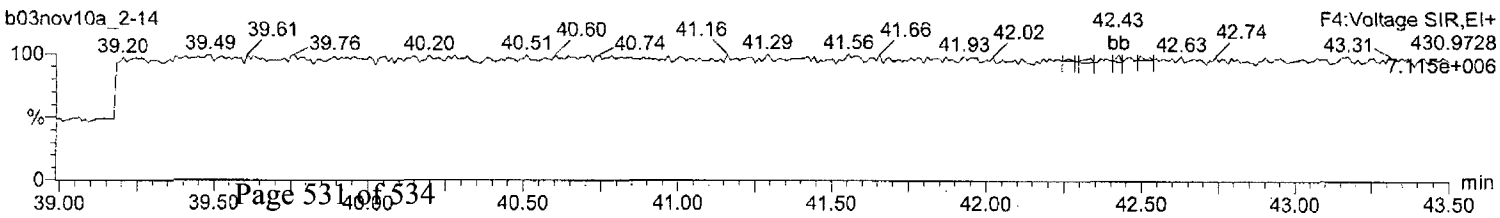


NoDPE



Lock Mass F4



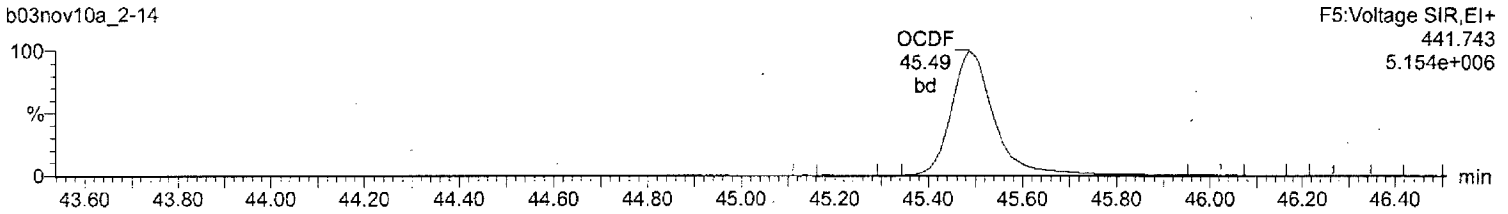
Quantify Sample Report **MassLynx 4.1**
Method 8290 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL Results\8290-b03nov10a_2-14.qld

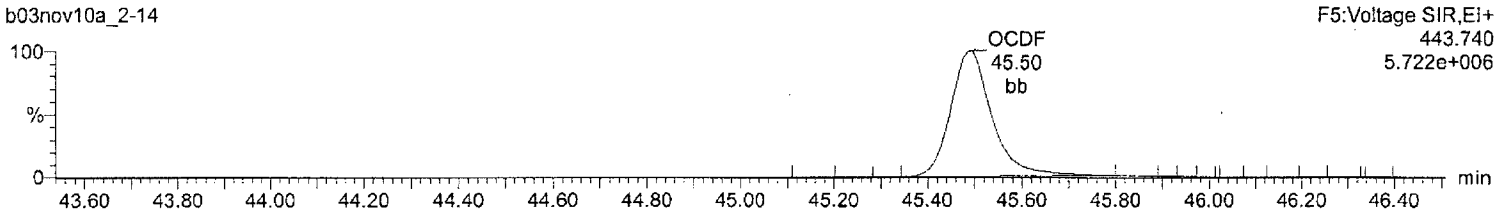
Last Altered: Thursday, November 04, 2010 08:36:01 Eastern Standard Time
Printed: Thursday, November 04, 2010 08:37:35 Eastern Standard Time

Name: b03nov10a_2-14, Date: 04-Nov-2010, Time: 02:26:16, ID: CS3WT UD100713-01.2, Description: , Job: b03nov10a_2, Task: HRP763_1, User: MJC

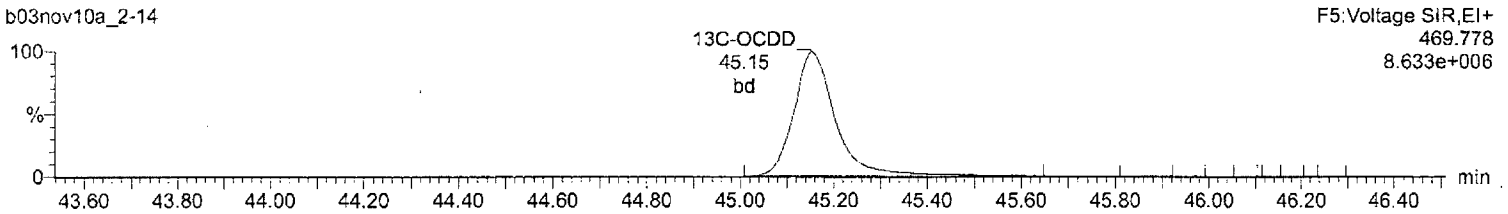
OCDF



OCDF



13C-OCDD



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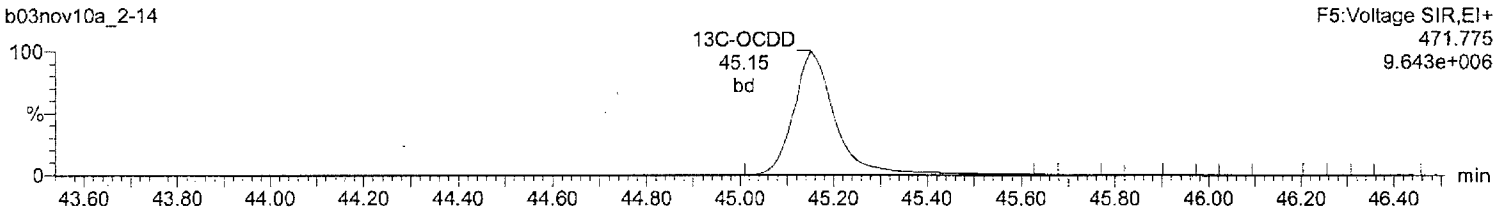
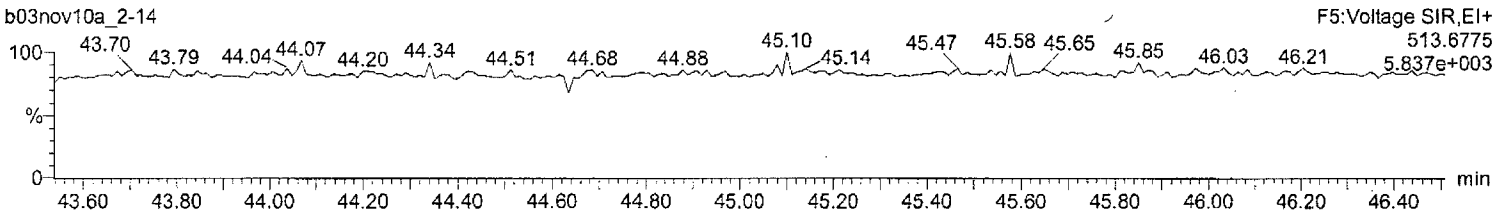


DeDPE



Lock Mass F5