

ARI Labs, Inc.

RECOVERY REPORT

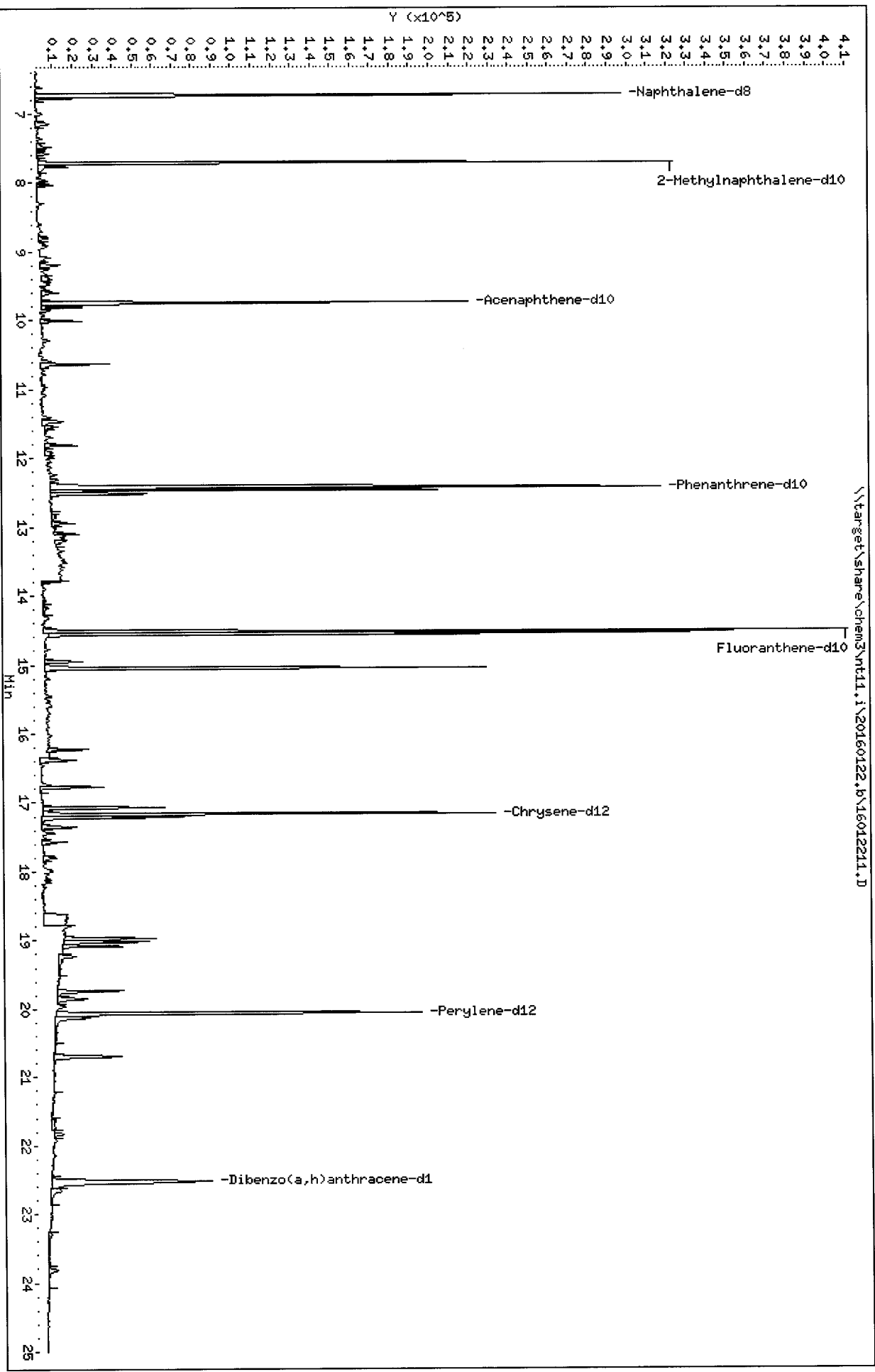
Client Name: Anchor QEA, LLC
Sample Matrix: SOLID
Lab Smp Id: ATSOA
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: PEMD.sub
Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
Misc Info: 16-135

Client SDG: ATSO
Fraction: SV
Client Smp ID: PG-SMA2-2-MUS-COC-1
Operator: JW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	14900	8220	55.02	30-160
\$ 23 Fluoranthene-d10	14900	9880	66.12	30-160
\$ 36 Dibenzo(a,h) anthra	14900	10800	72.51	30-160

Data File: \\target\share\chem3\nt11.1\20160122.b\16012211.D
Date : 22-JAN-2016 12:28
Client ID: PG-SM42-2-HUS-COC-1
Sample Info: AT50A
Volume Injected (uL): 2.0
Column phase: Rxi-17S11 MS

Instrument: nt11.1
Operator: JM
Column diameter: 0.25



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATS0A

Volume Injected (uL): 2.0

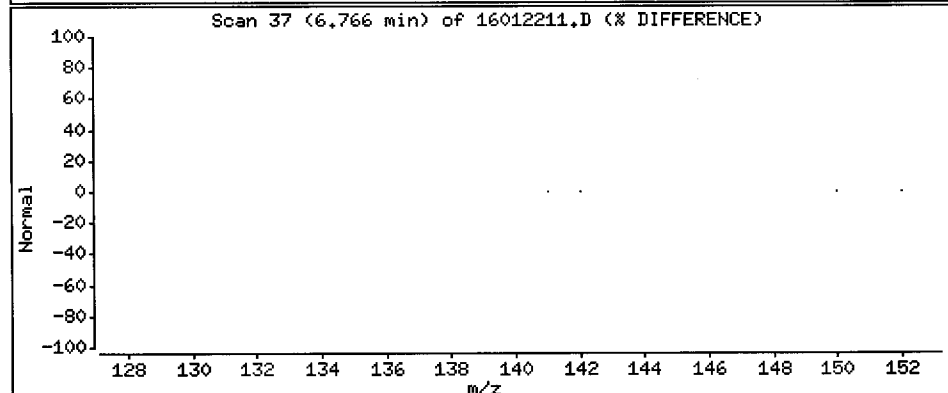
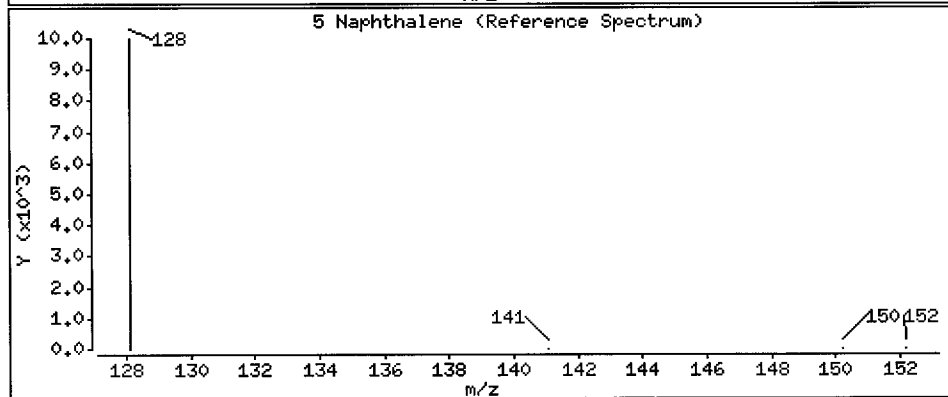
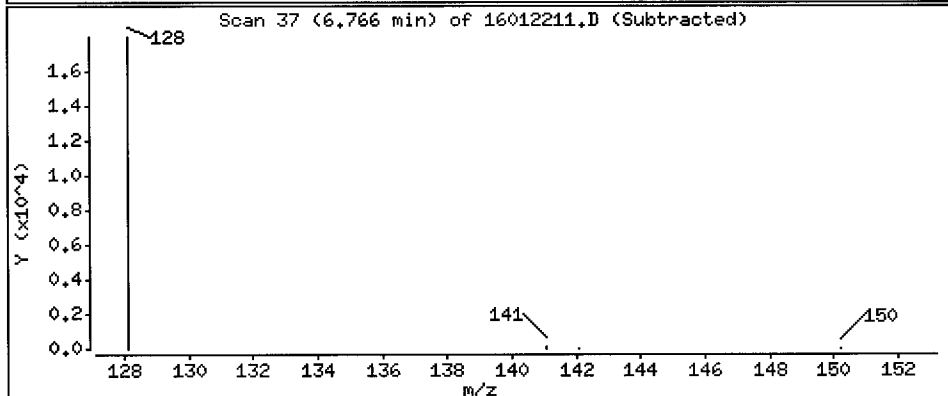
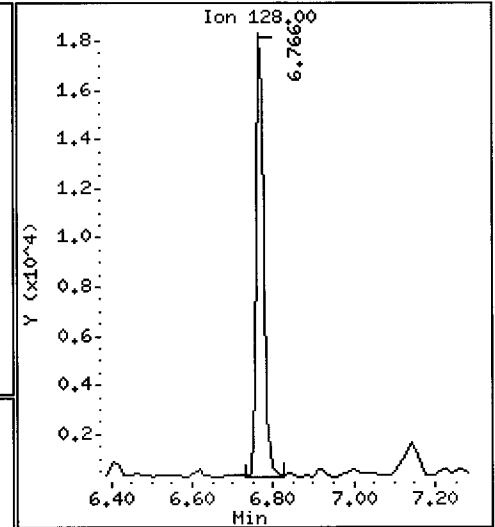
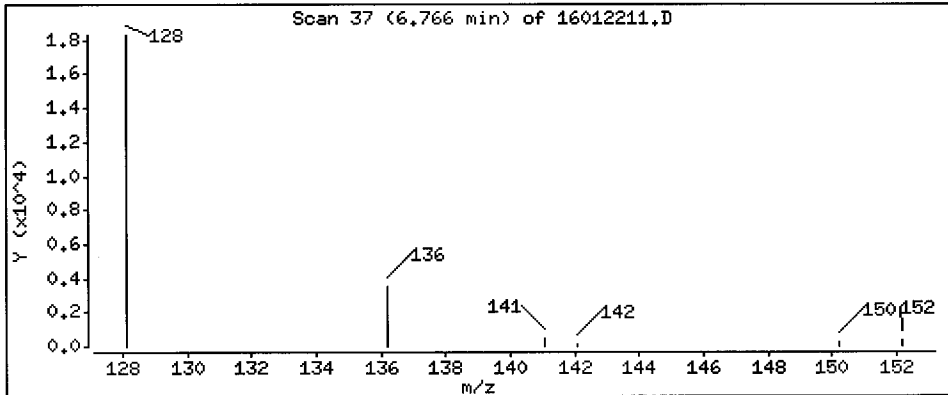
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 602 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

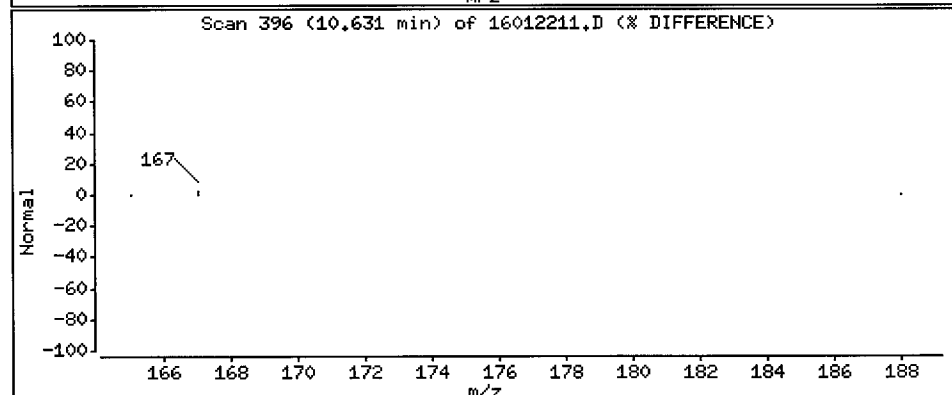
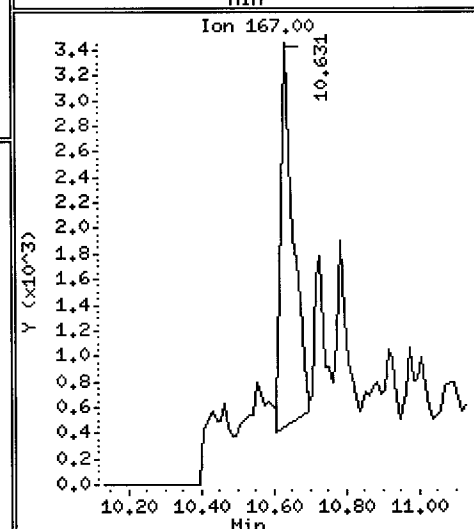
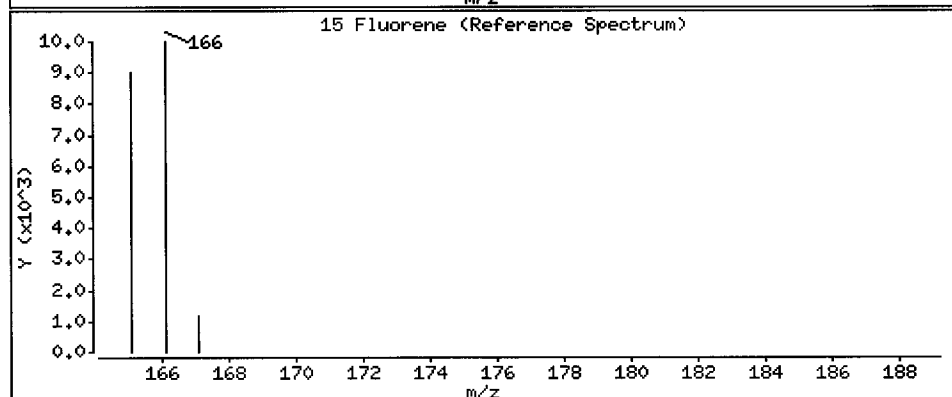
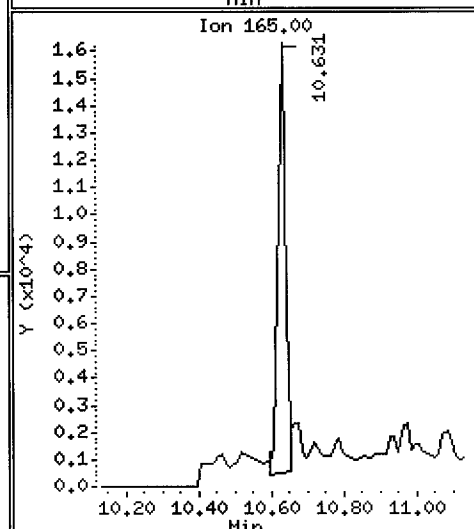
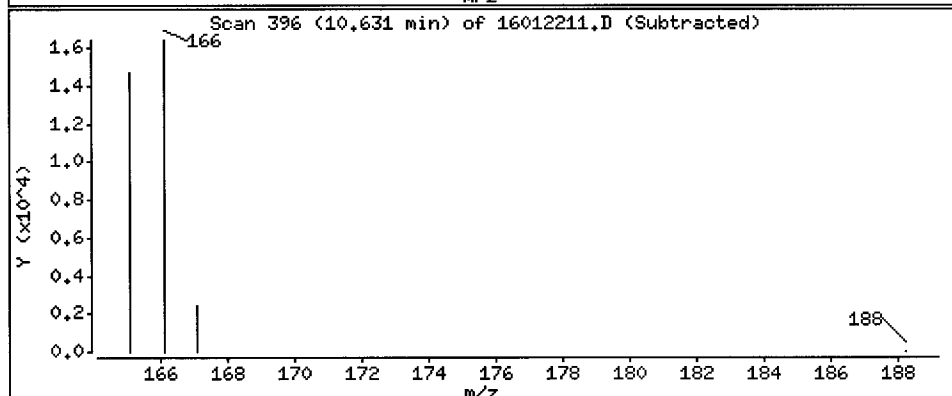
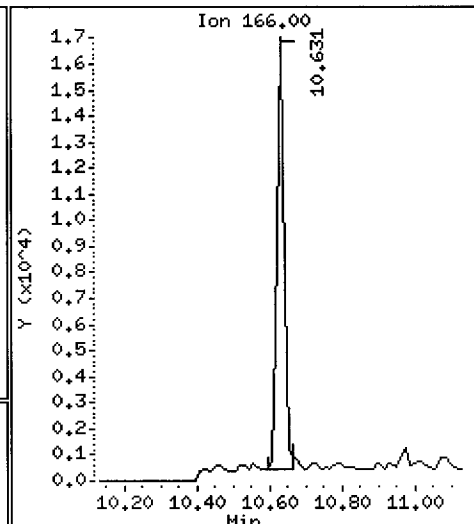
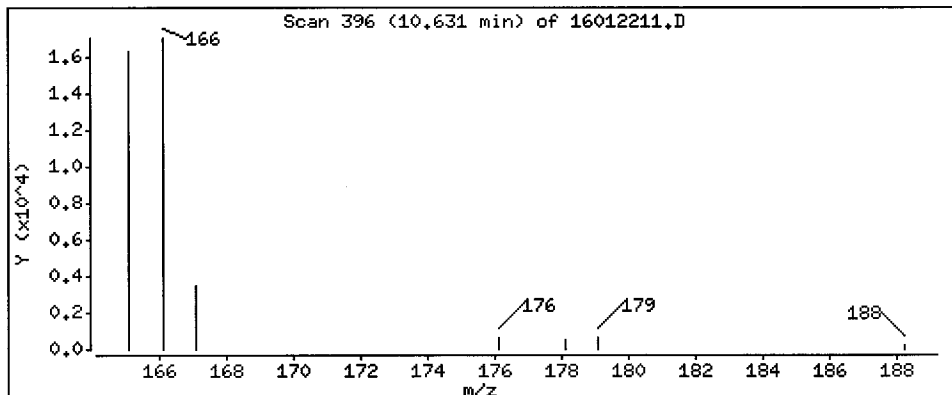
Operator: JN

Column phase: Rxi-17S11 MS

Column diameter: 0.25

15 Fluorene

Concentration: 646 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-HUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

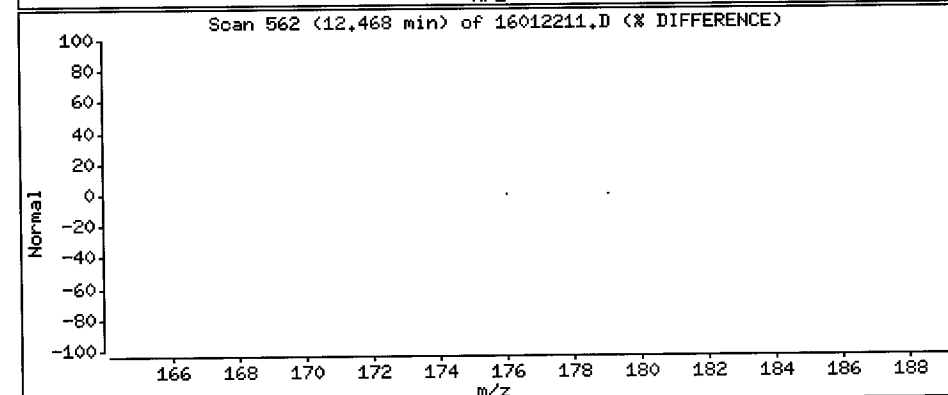
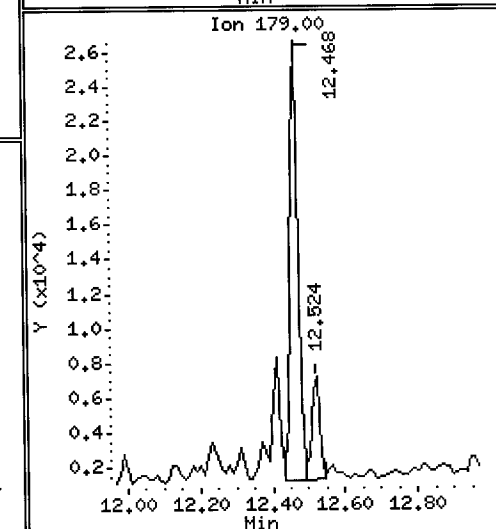
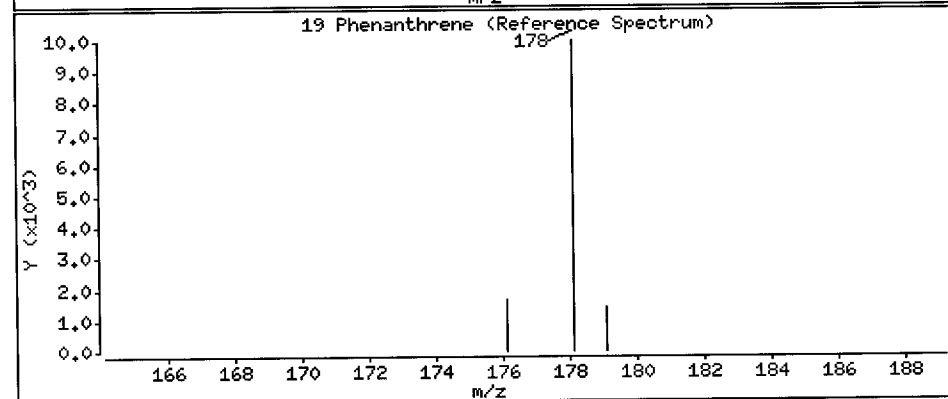
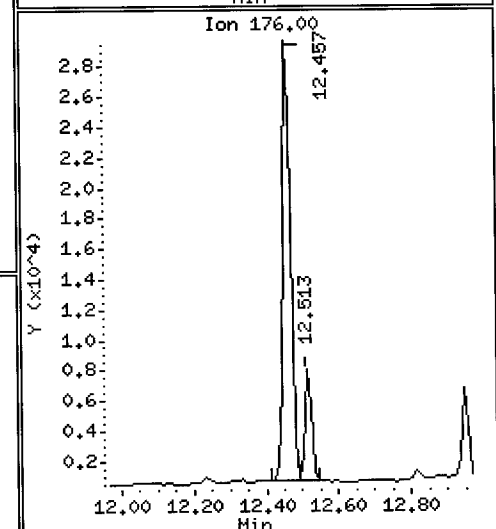
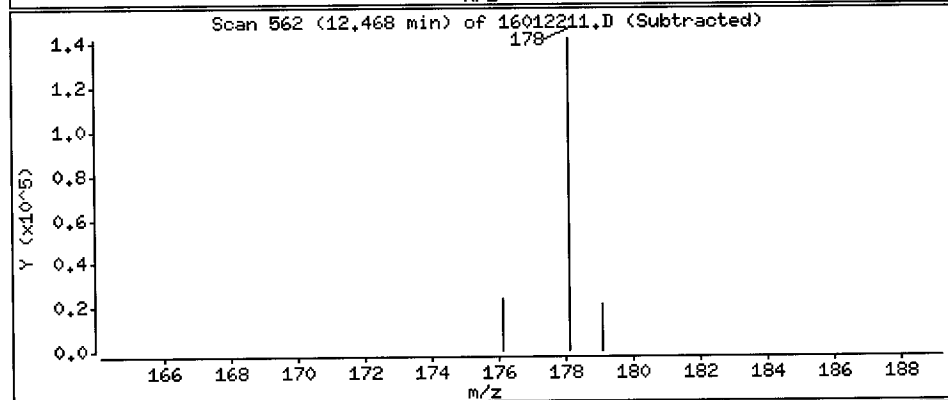
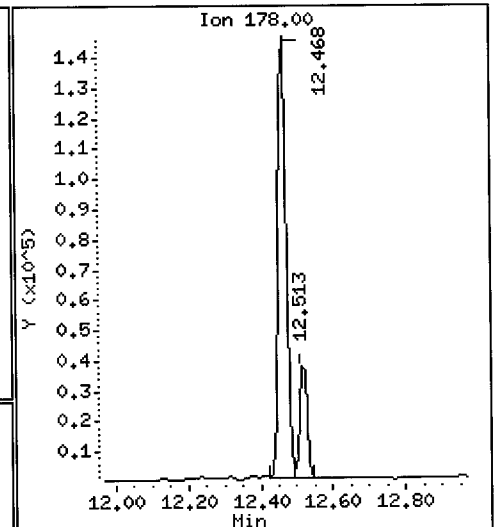
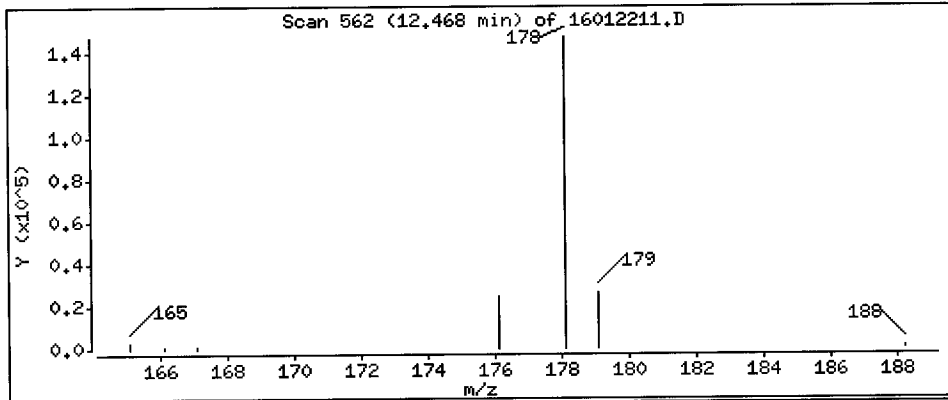
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 4200 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

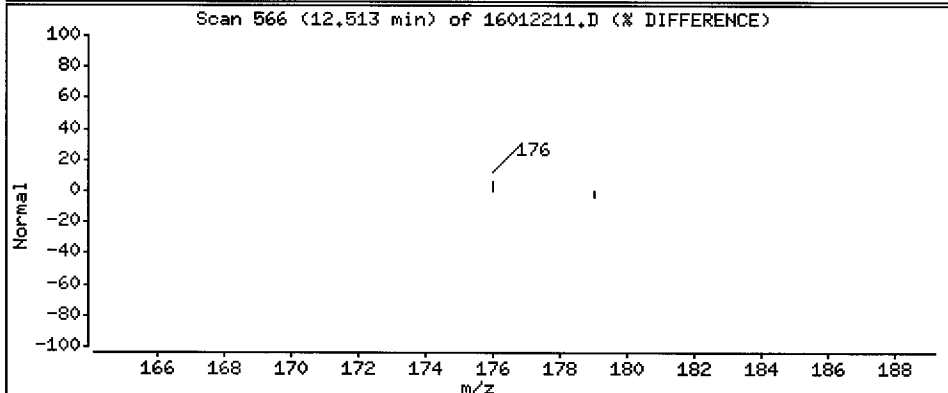
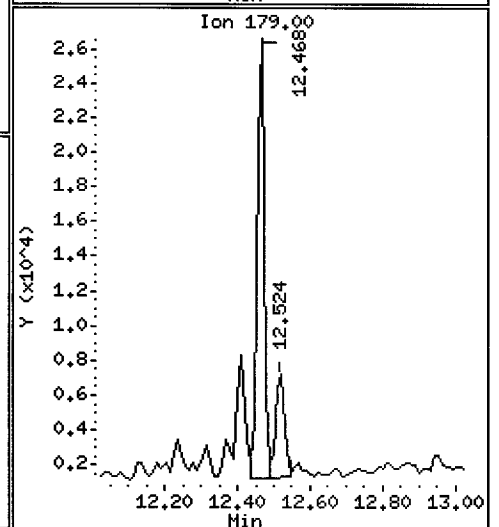
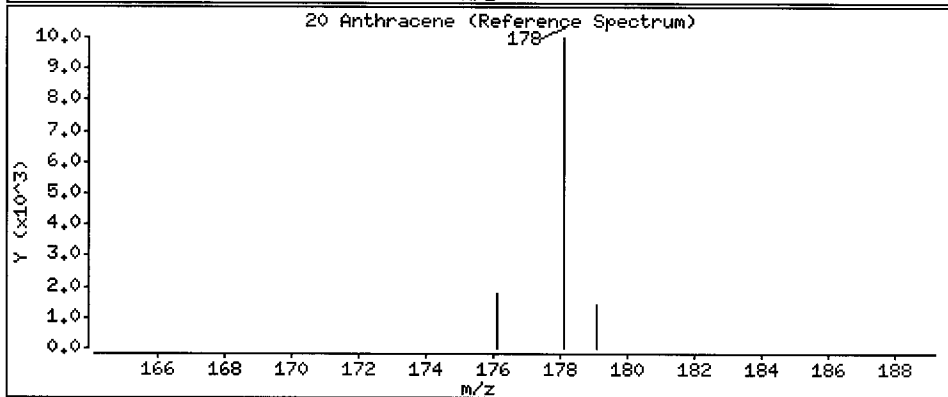
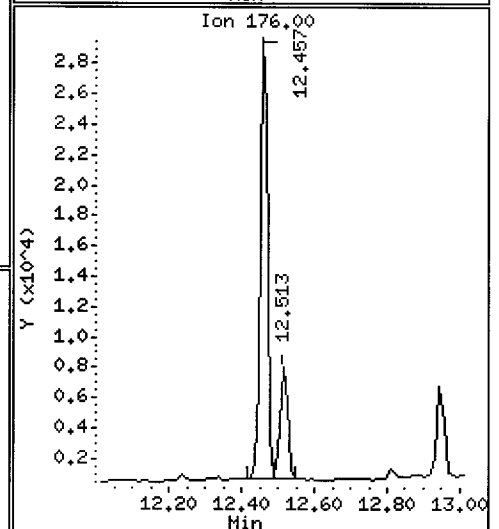
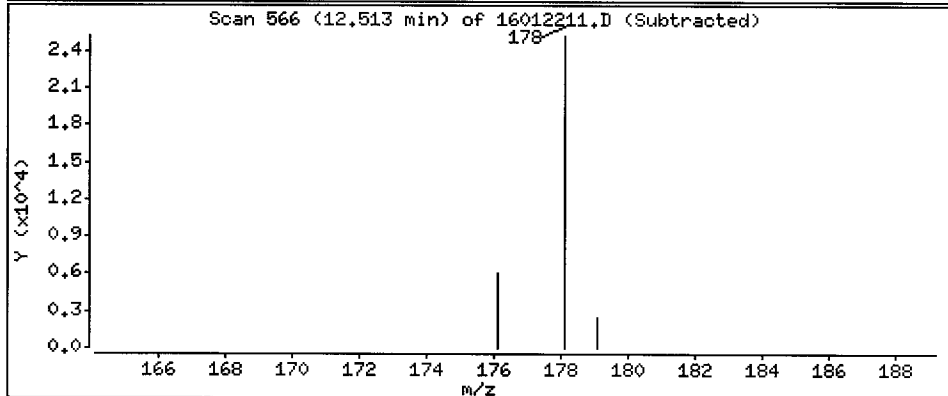
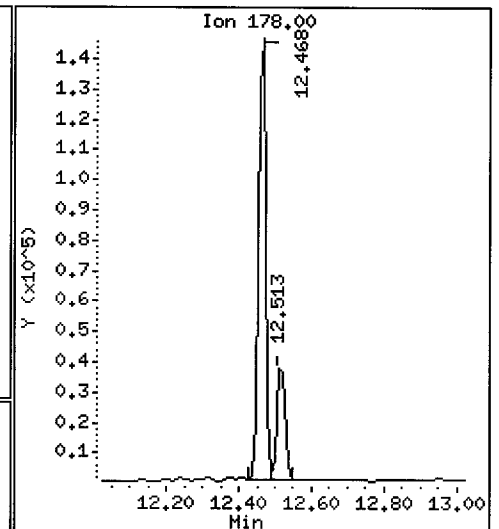
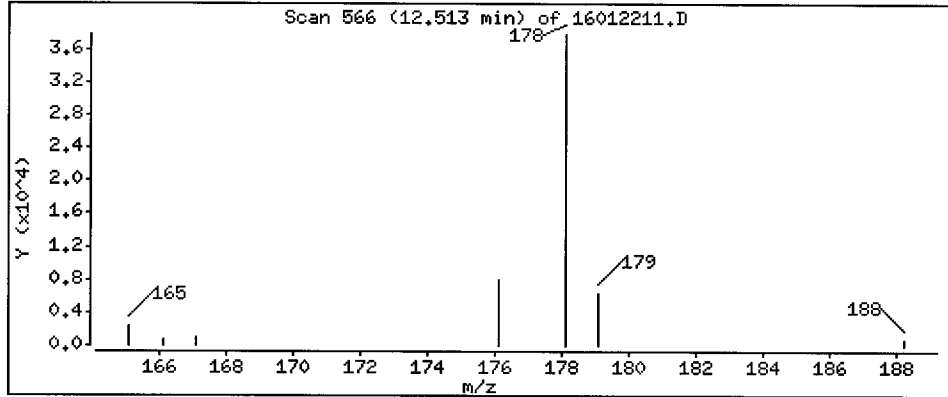
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

20 Anthracene

Concentration: 1230 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SHA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

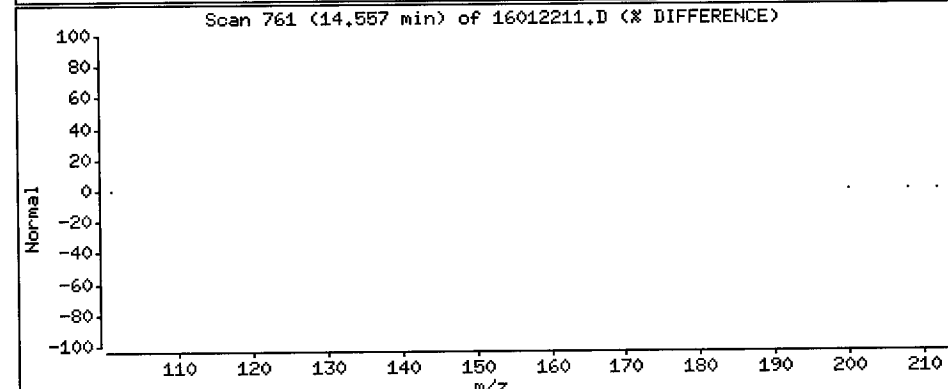
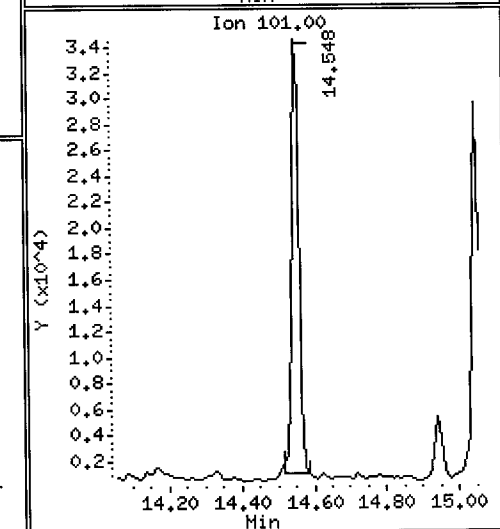
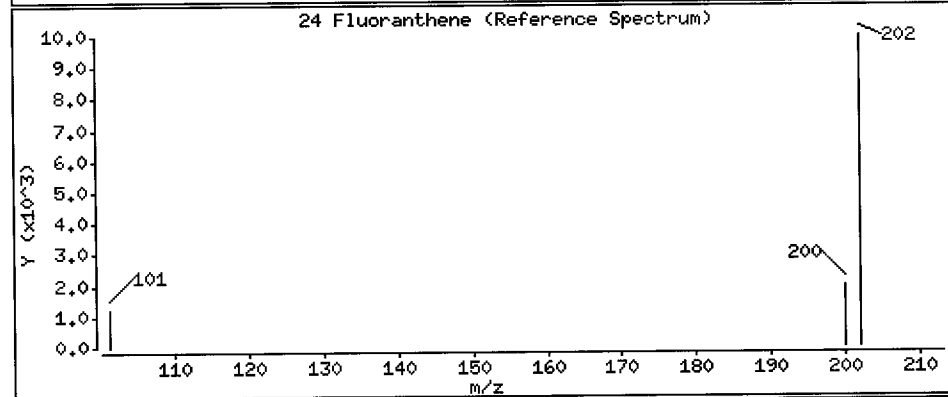
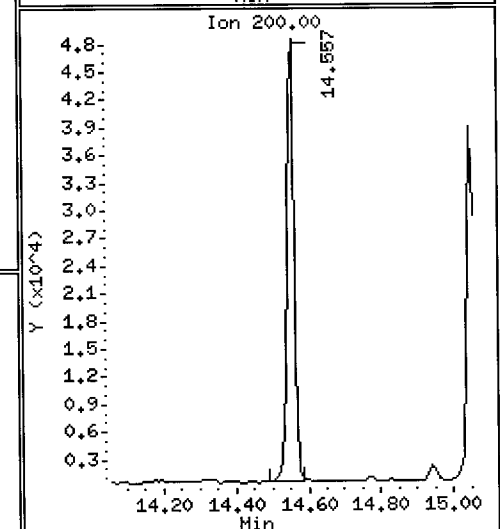
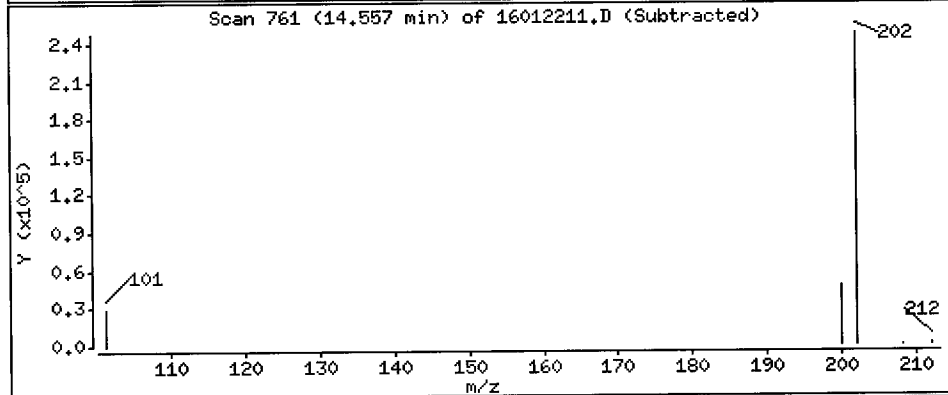
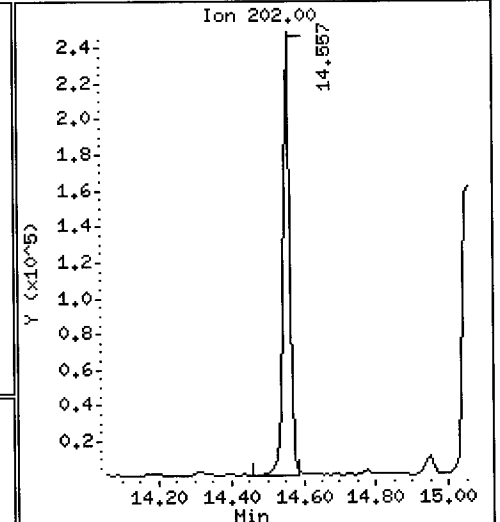
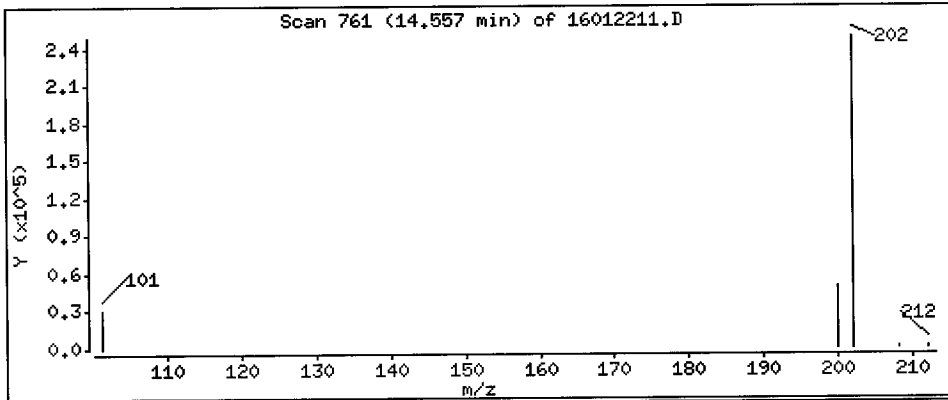
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 6500 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: AT50A

Volume Injected (uL): 2.0

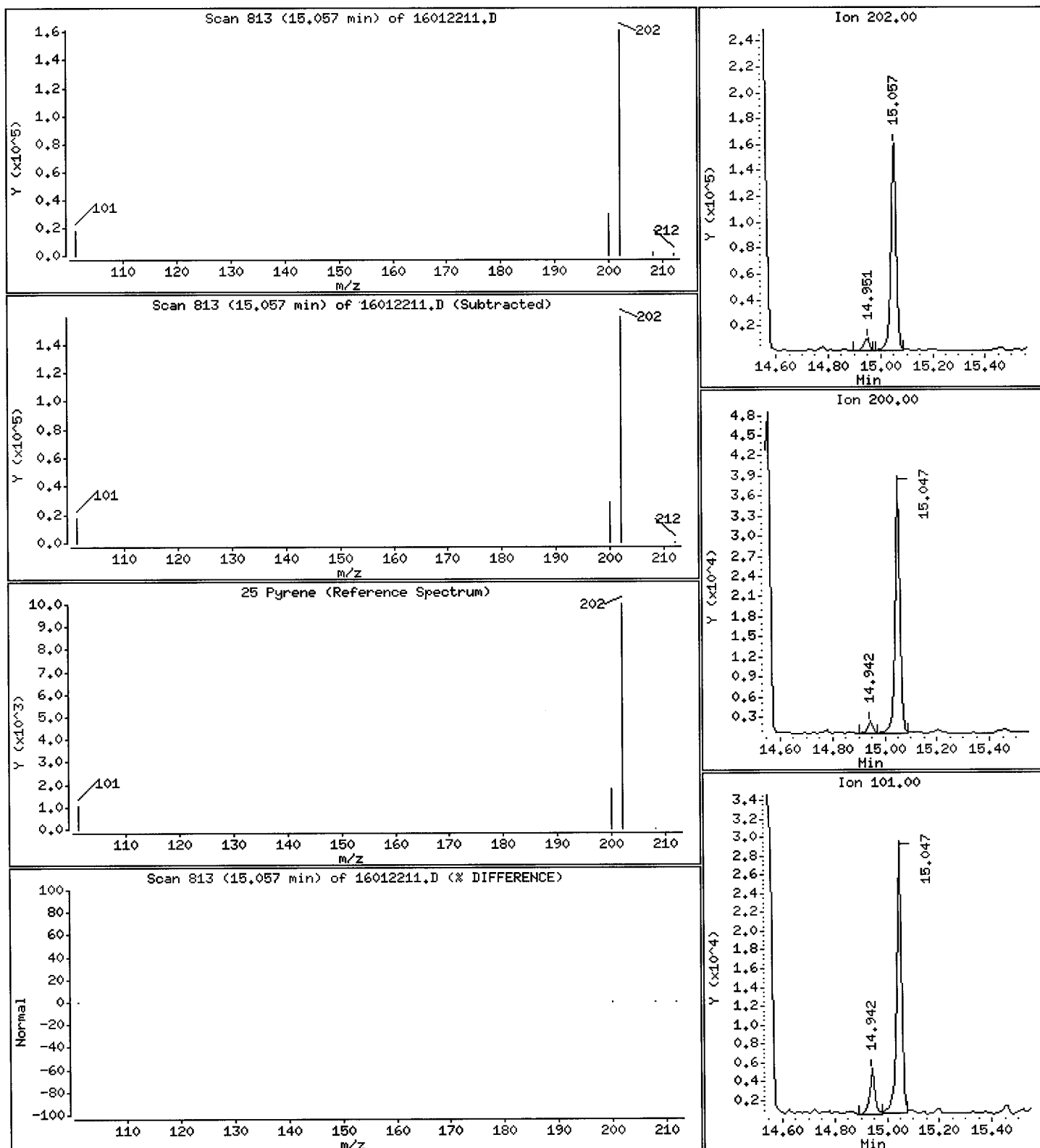
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 4980 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-HUS-COC-1

Instrument: nt11.i

Sample Info: ATS0A

Volume Injected (uL): 2.0

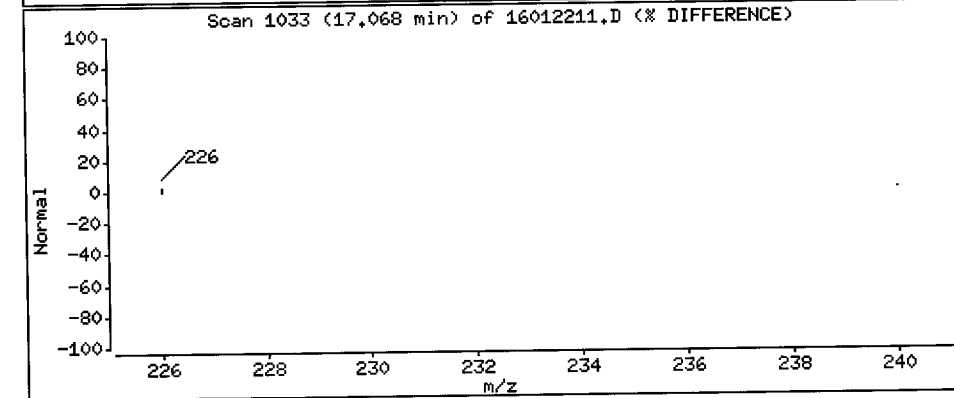
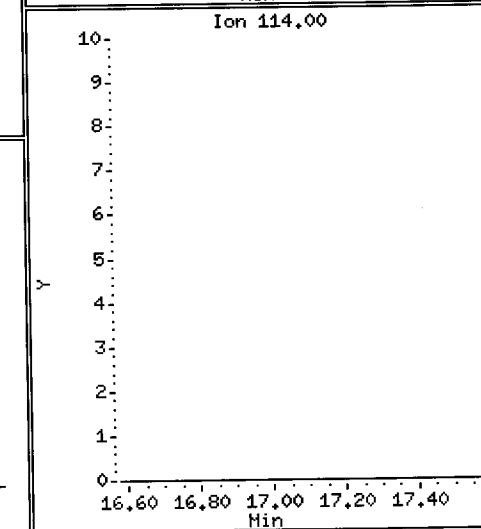
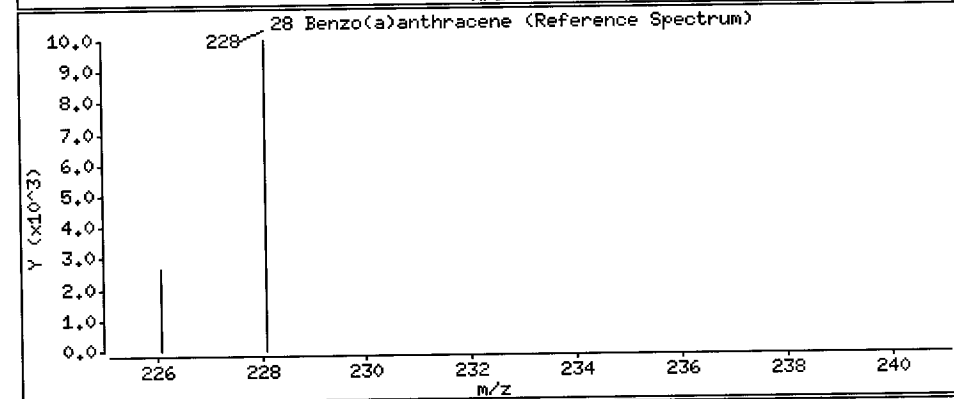
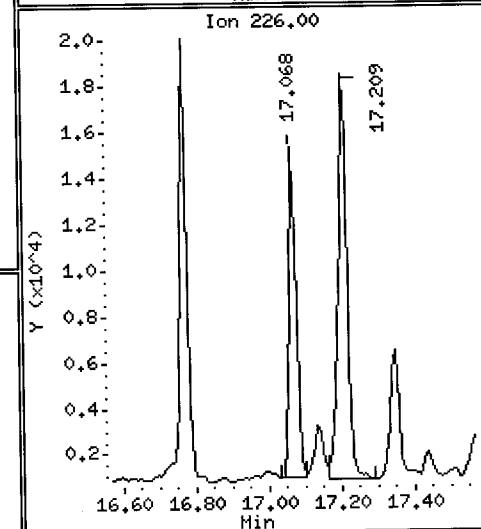
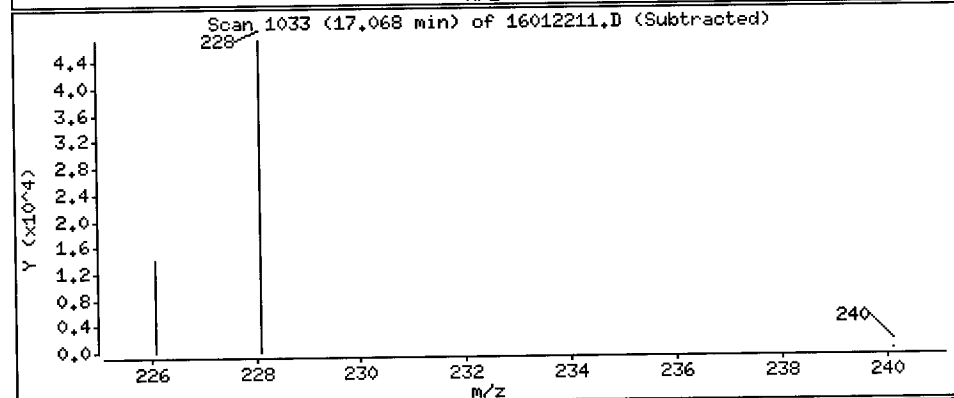
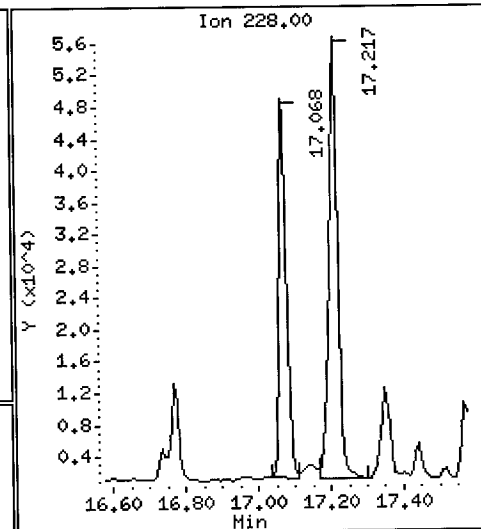
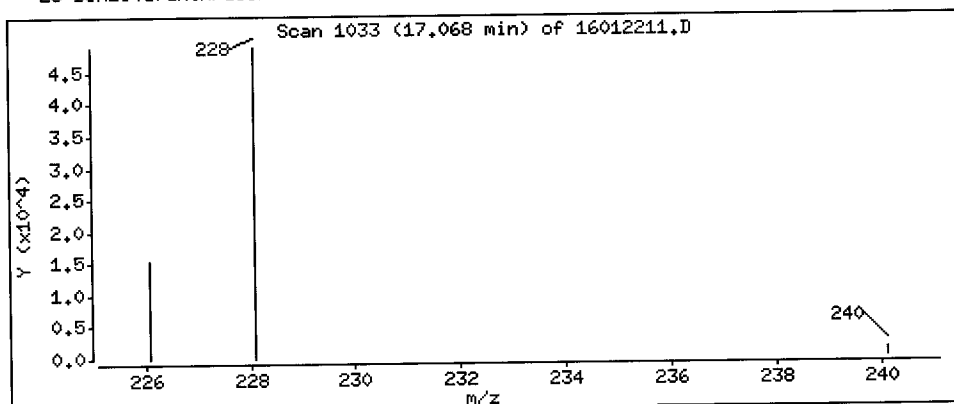
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0,25

28 Benzo(a)anthracene

Concentration: 1640 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

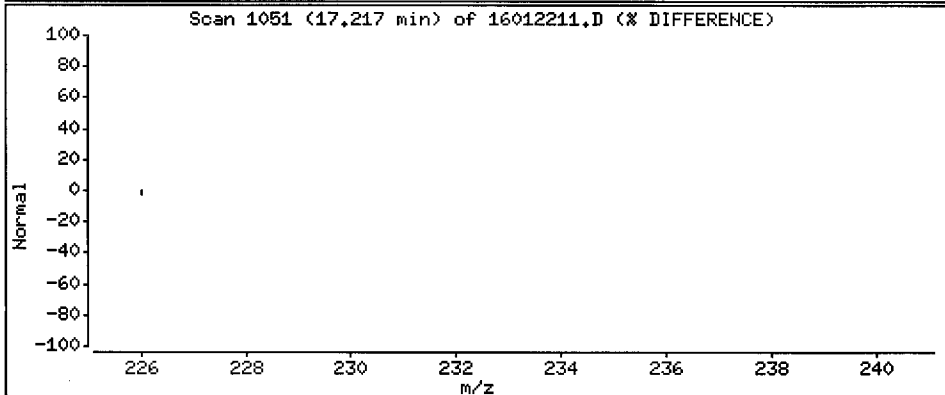
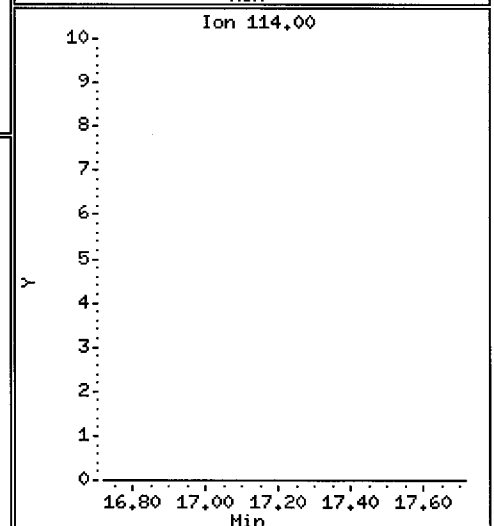
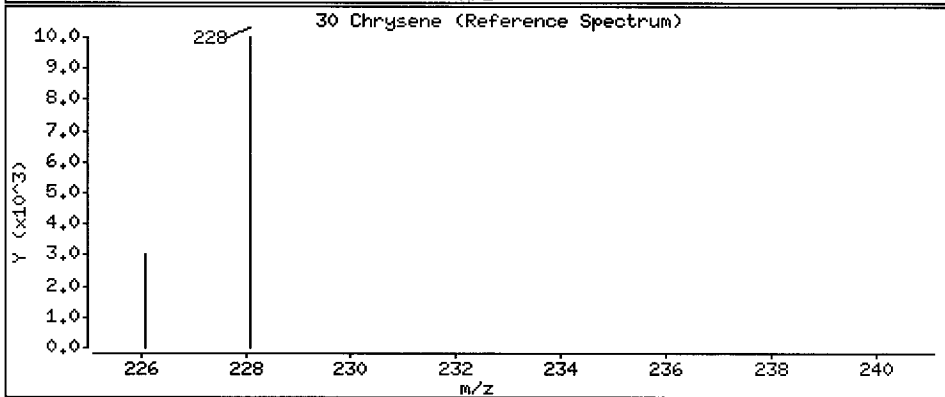
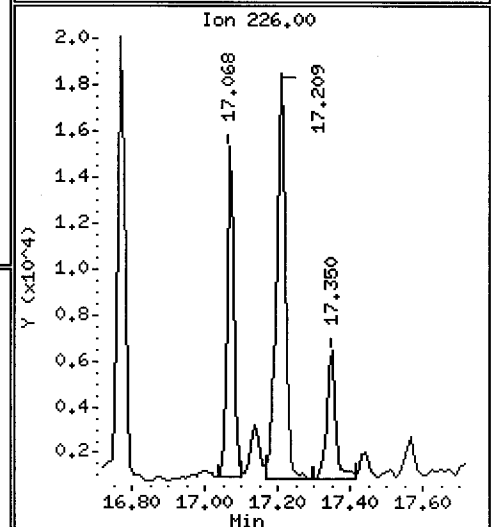
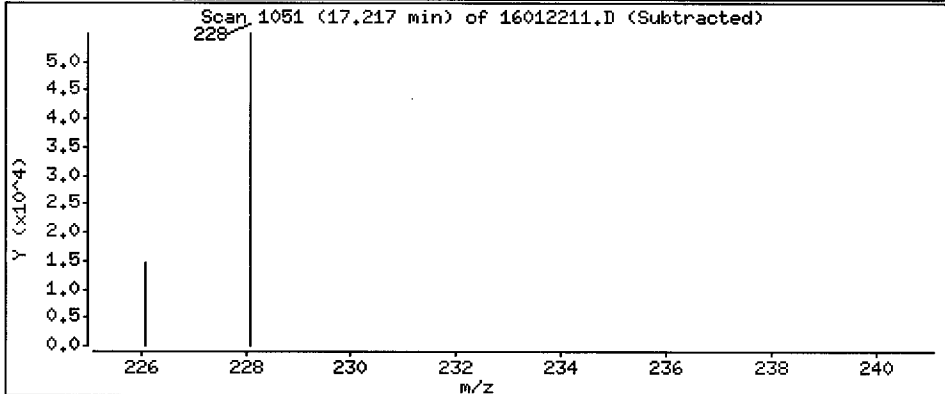
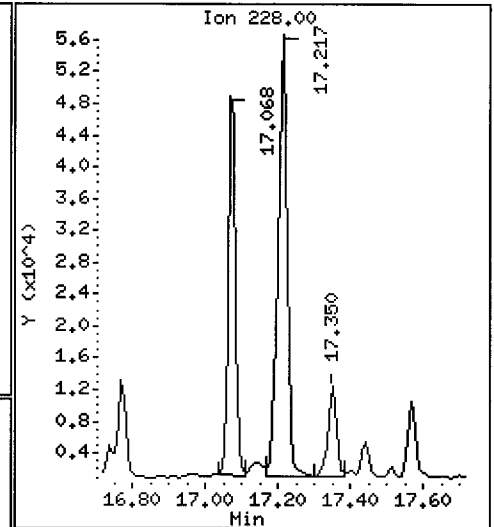
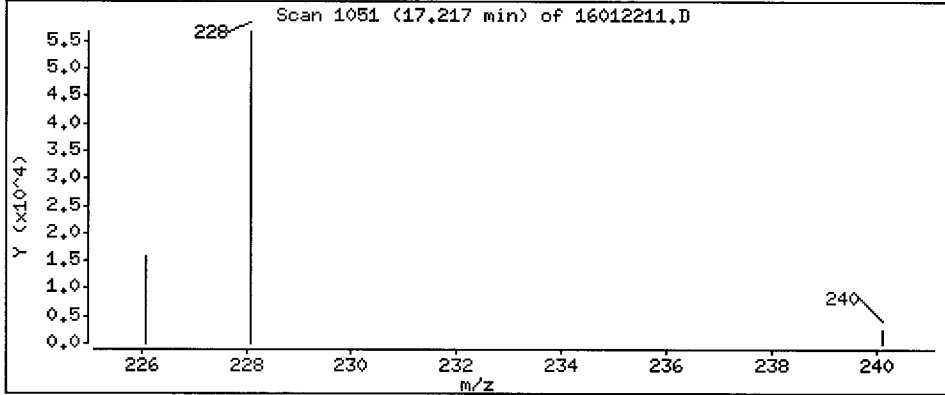
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Chrysene

Concentration: 2140 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

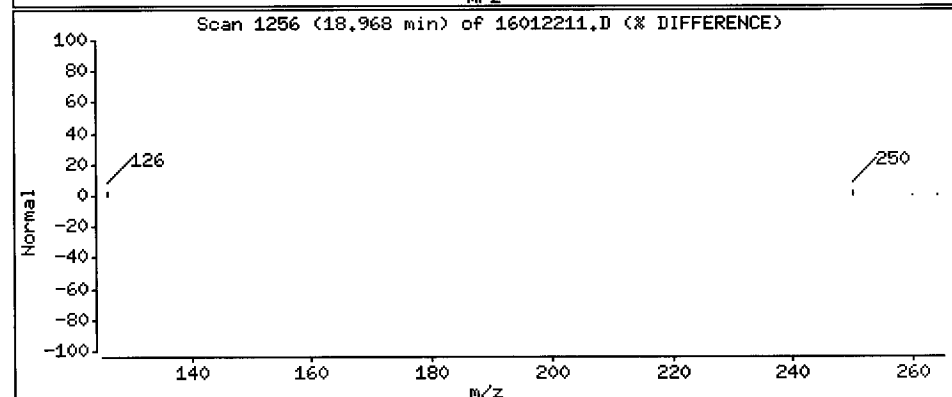
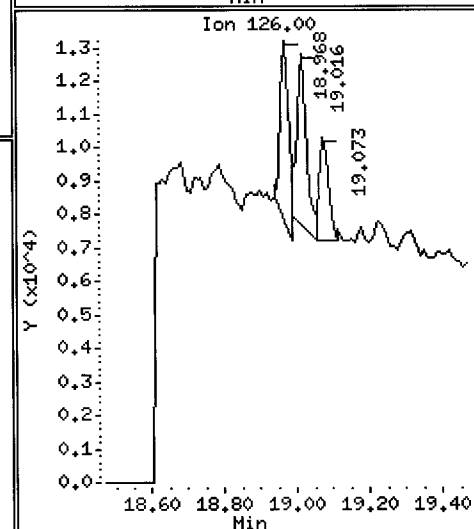
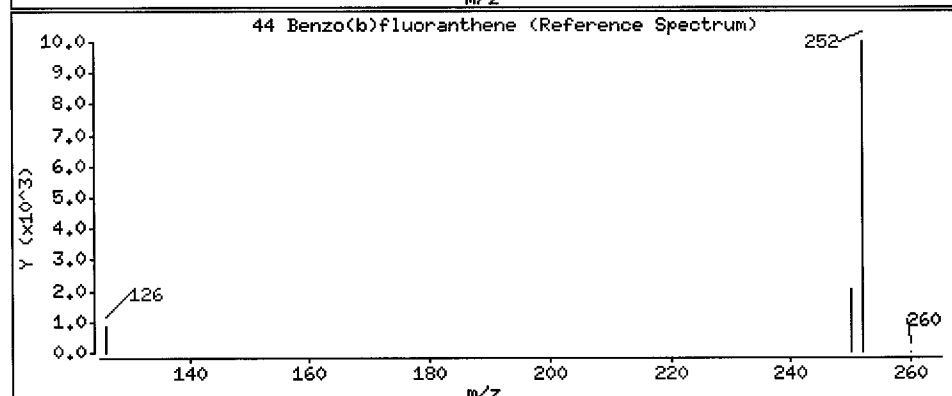
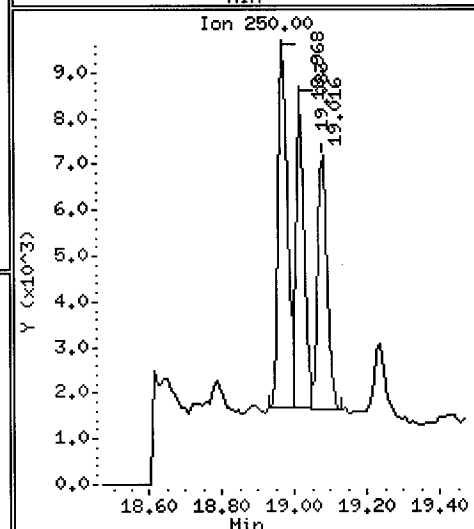
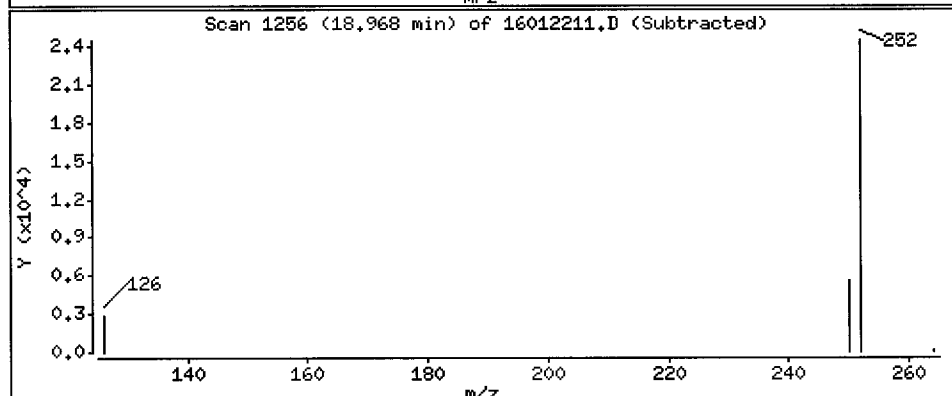
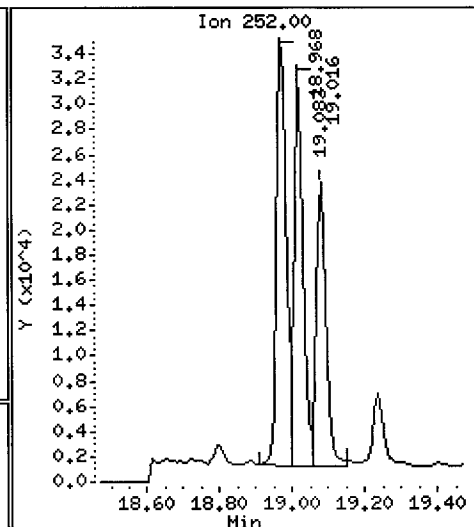
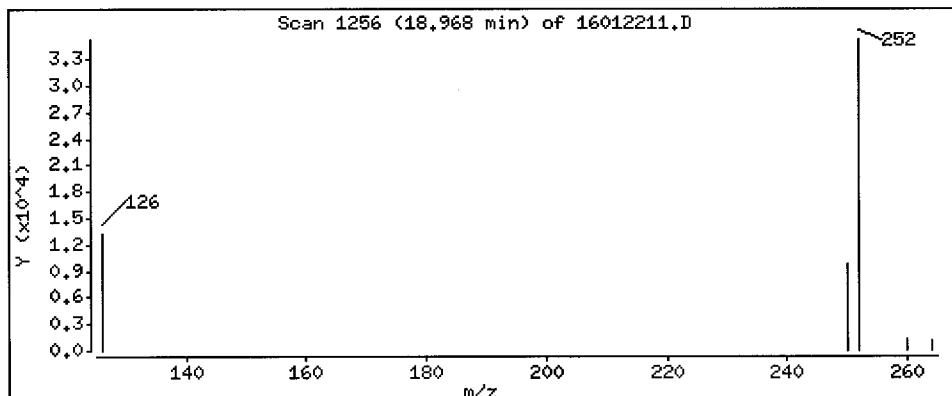
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 1520 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

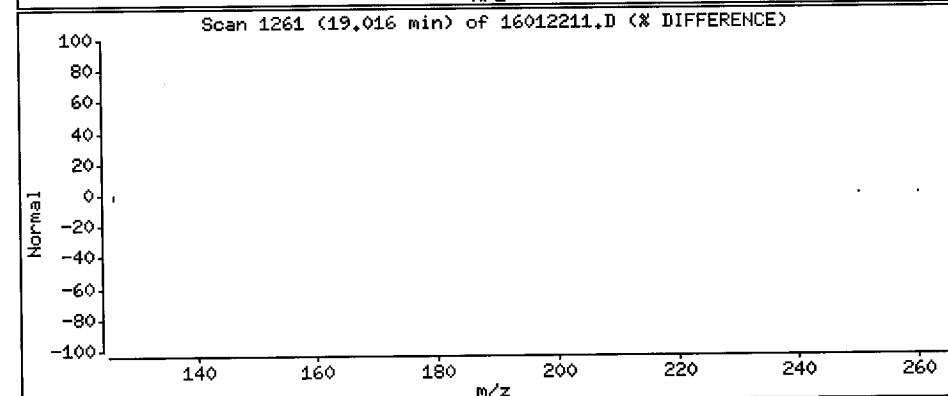
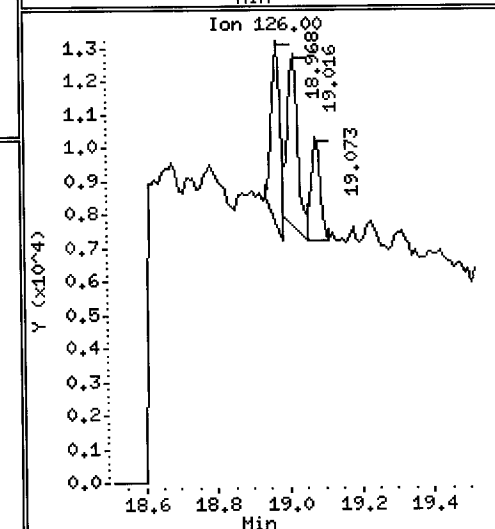
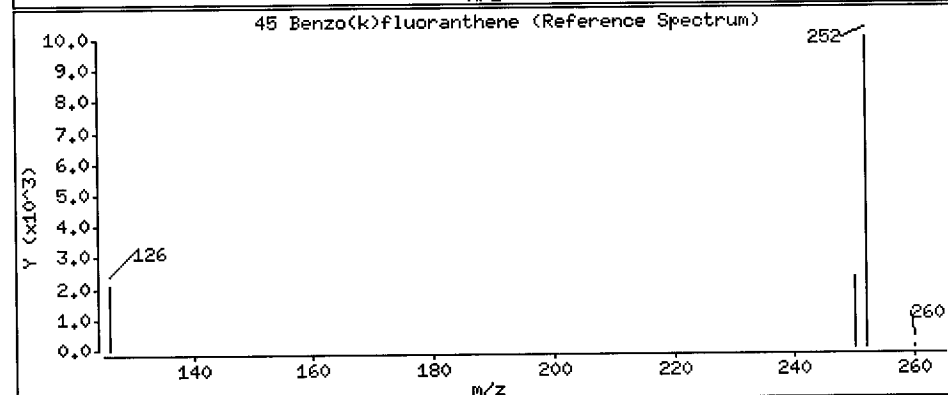
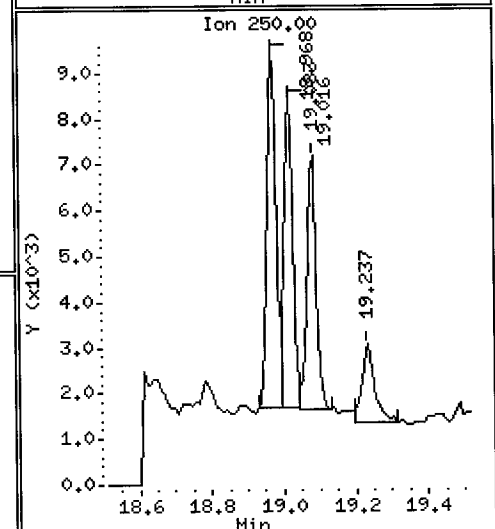
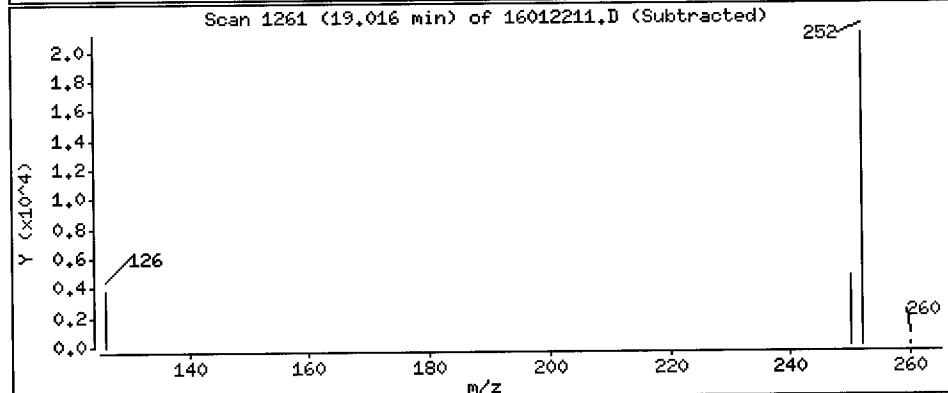
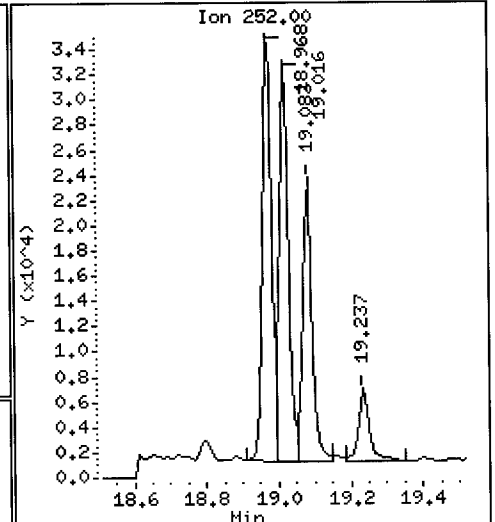
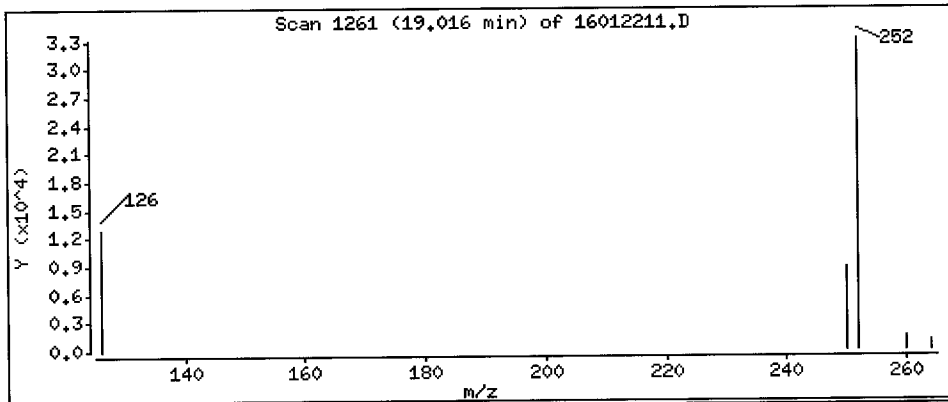
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 1190 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

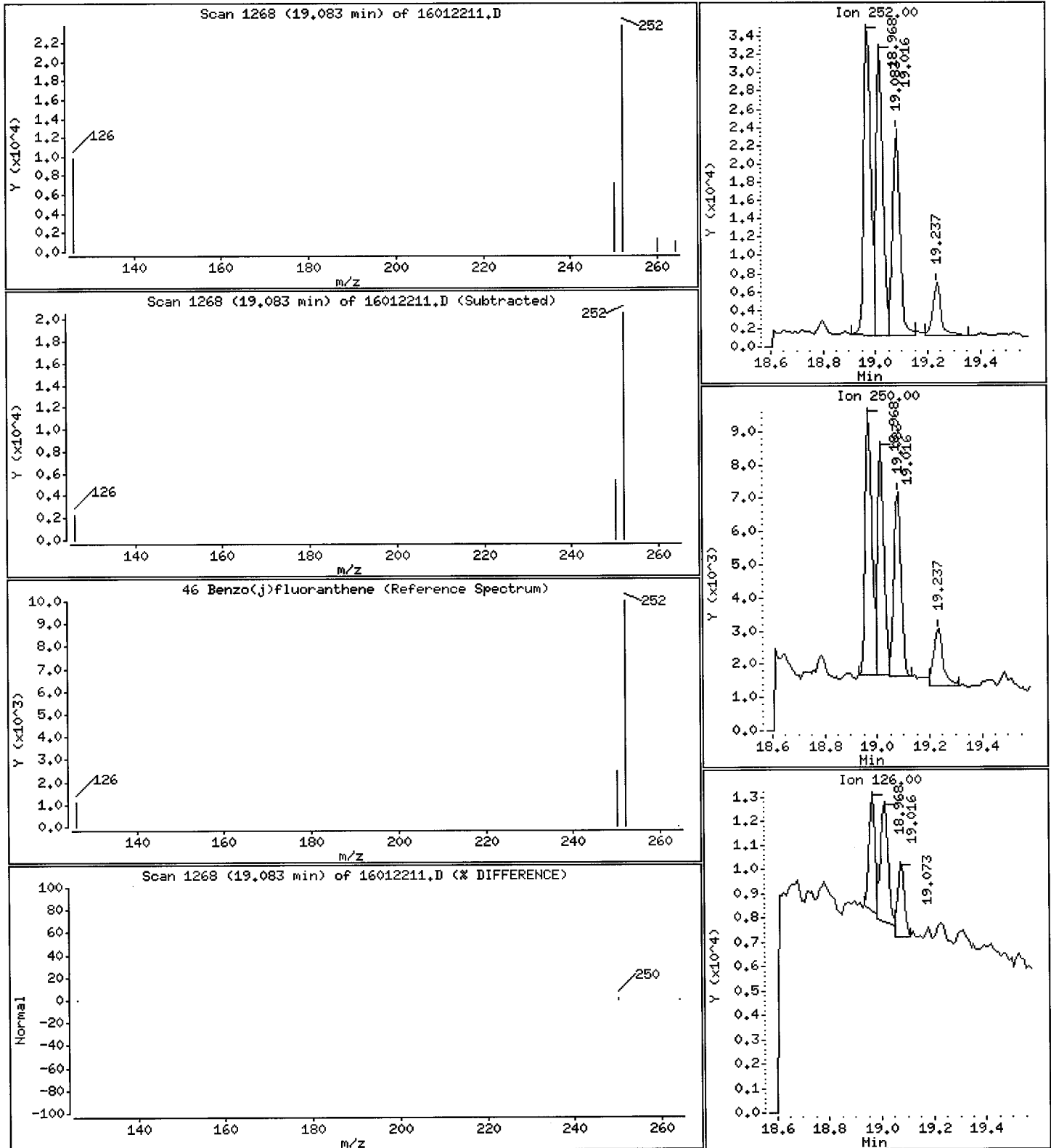
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 953 ug/kg



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOA

Volume Injected (uL): 2.0

Operator: JM

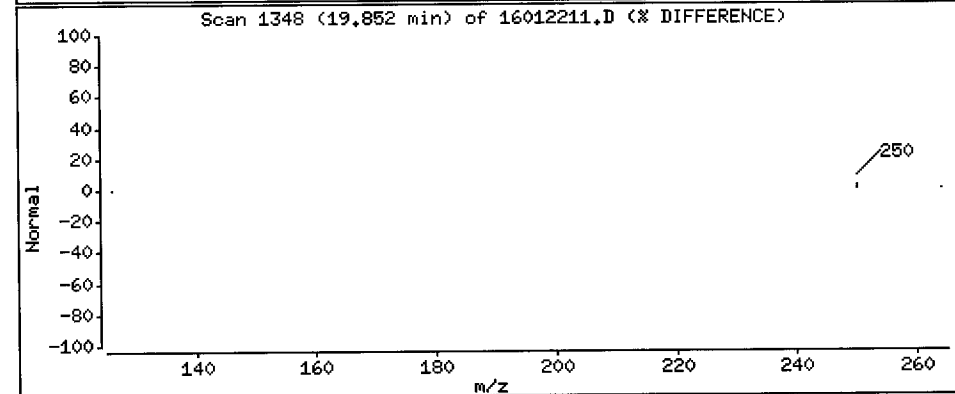
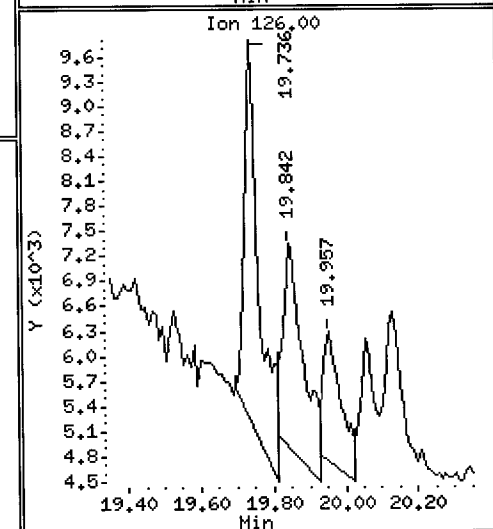
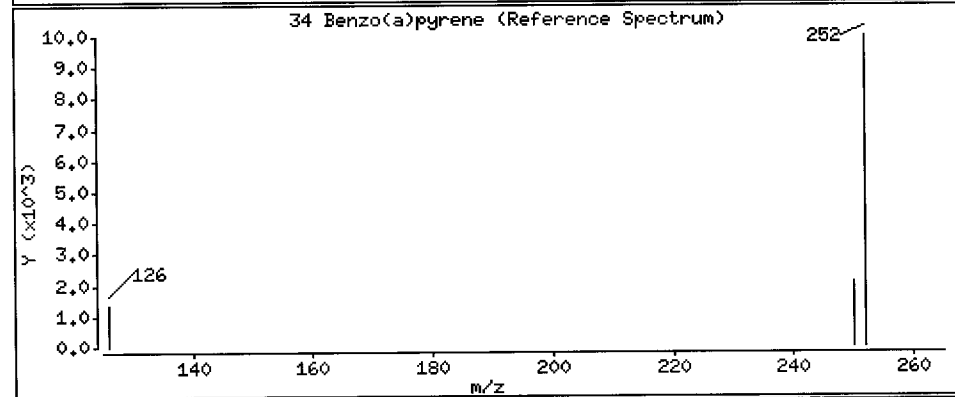
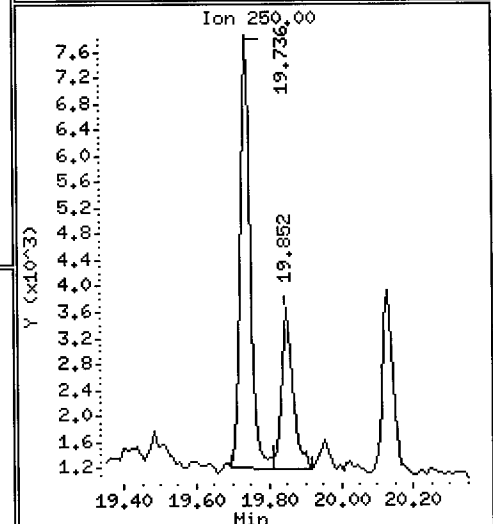
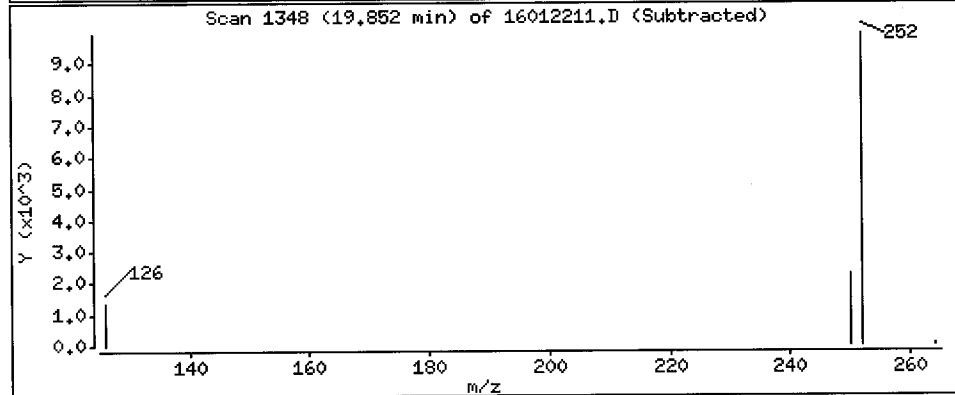
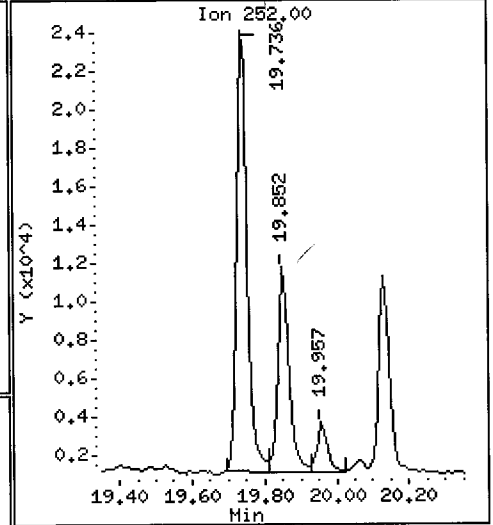
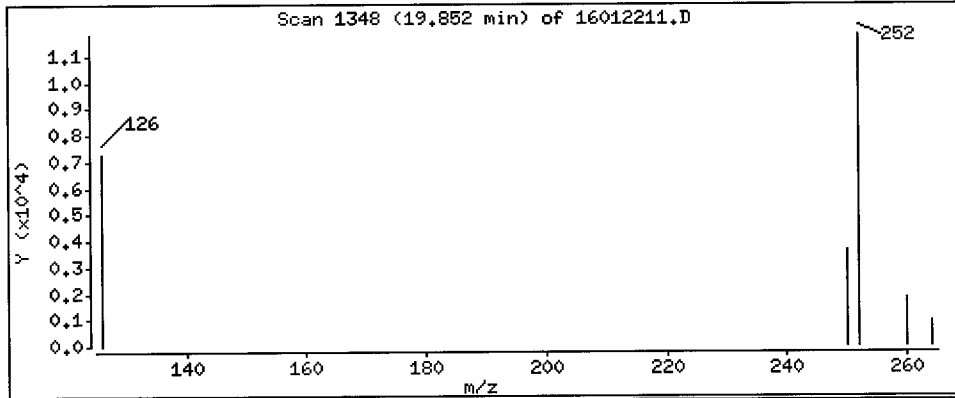
Column phase: Rxi-17Si11 MS

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 586 ug/kg

*NO FLAG
EAS 1/25/16*



Date : 22-JAN-2016 12:28

Client ID: PG-SMA2-2-HUS-COC-1

Instrument: nt11.i

Sample Info: ATS0A

Volume Injected (uL): 2.0

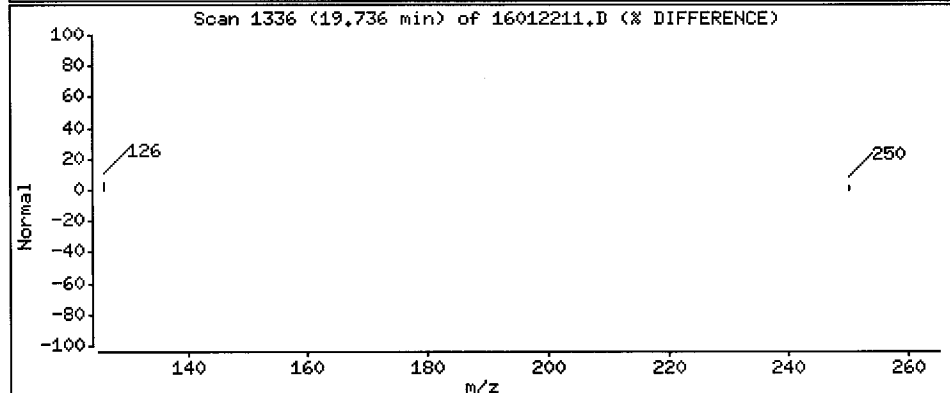
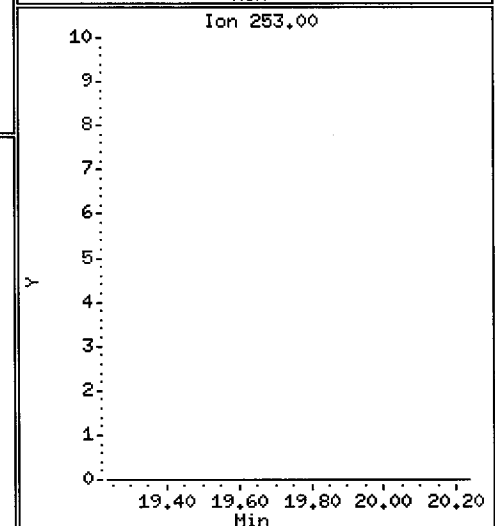
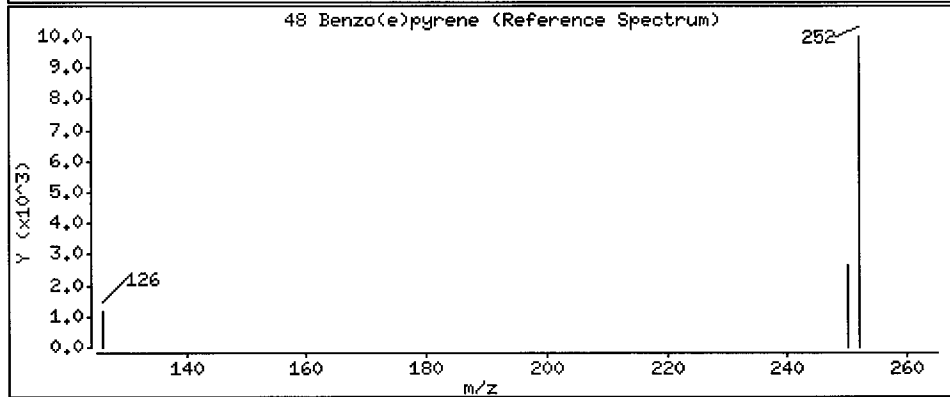
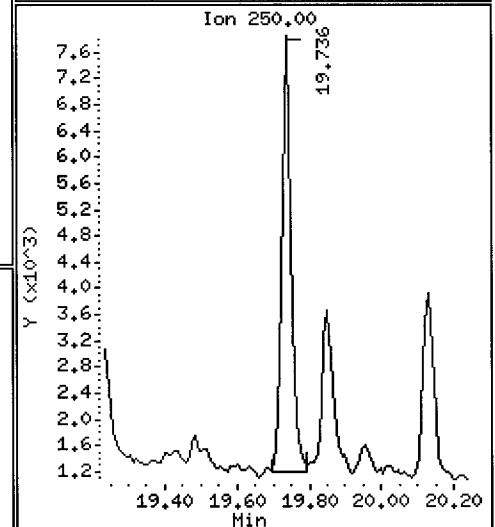
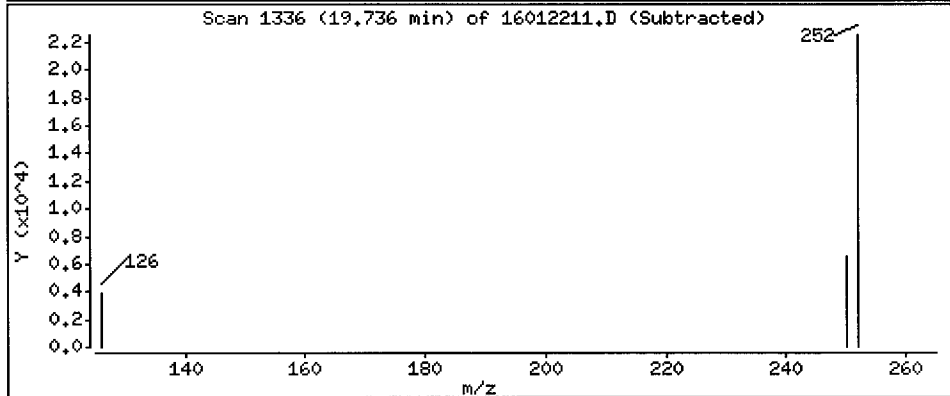
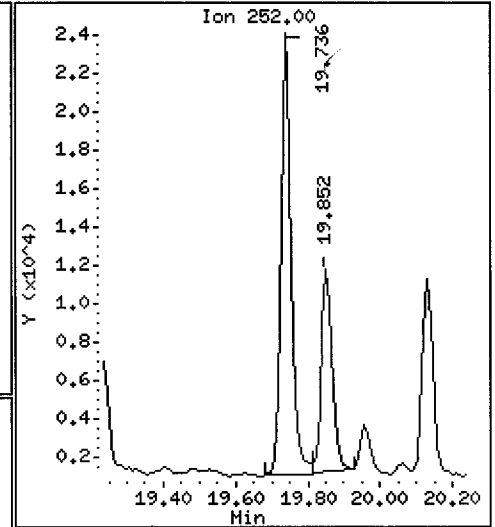
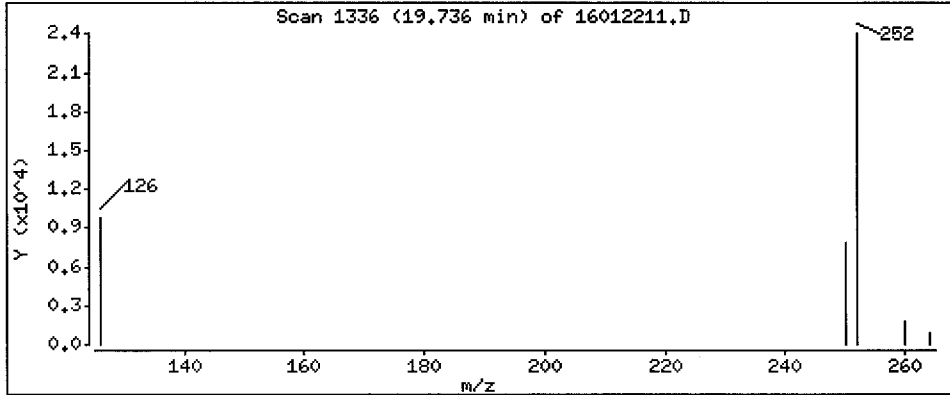
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 1110 ug/kg



Lab ID: ATSOA

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 12:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012212.D
 Lab Smp Id: ATSOB Client Smp ID: PG-PJ-1-MUS-COC-160
 Inj Date : 22-JAN-2016 12:58 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOB
 Misc Info : 16-136
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.010	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

JW
1/25/16

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ug/kg)
* 4 Naphthalene-d8	136	====	6.734	6.744	(1.000)	374753	200.000	
5 Naphthalene	128		6.776	6.776	(1.006)	24117	11.1414	557
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.145)	198911	142.999	7140
7 2-Methylnaphthalene	142		Compound Not Detected.					
8 1-Methylnaphthalene	142		Compound Not Detected.					
10 Acenaphthylene	152		Compound Not Detected.					
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	264386	200.000	
12 Acenaphthene	153		Compound Not Detected.					
14 Dibenzofuran	168		10.010	10.010	(1.027)	22089	10.3534	517
15 Fluorene	166		10.630	10.630	(1.091)	20975	13.1088	655
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	426020	200.000	
19 Phenanthrene	178		12.468	12.468	(1.004)	220336	85.8441	4290
20 Anthracene	178		12.523	12.523	(1.008)	45446	19.7810	988
\$ 23 Fluoranthene-d10	212		14.519	14.518	(1.169)	445684	190.232	9500
24 Fluoranthene	202		14.557	14.557	(1.172)	323866	125.679	6280
25 Pyrene	202		15.057	15.057	(0.877)	217865	86.9412	4340
28 Benzo(a)anthracene	228		17.076	17.075	(0.995)	63656	30.1731	1510
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	316427	200.000	
30 Chrysene	228		17.217	17.217	(1.003)	95562	41.2713	2060
44 Benzo(b)fluoranthene	252		18.967	18.967	(0.945)	51107	23.9330	1200
45 Benzo(k)fluoranthene	252		19.015	19.015	(0.947)	39105	15.7149	785

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)
46 Benzo(j) fluoranthene	252	19.082	19.082	(0.951)	31804	14.0305	701
34 Benzo(a)pyrene	252	Compound Not Detected.					
* 35 Perylene-d12	264	20.072	20.062	(1.000)	315181	200.000	
\$ 36 Dibenzo(a,h)anthracene-d14	292	22.529	22.529	(1.122)	261168	205.301	10300
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	Compound Not Detected.					
47 Perylene	252	Compound Not Detected.					
48 Benzo(e)pyrene	252	19.736	19.736	(0.983)	37542	17.3957	869

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012212.D
 Lab Smp Id: ATSOB
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-136

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-PJ-1-MUS-COC
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	374753	14.29
11 Acenaphthene-d10	239179	119590	478358	264386	10.54
18 Phenanthrene-d10	372253	186127	744506	426020	14.44
29 Chrysene-d12	294711	147356	589422	316427	7.37
35 Perylene-d12	260595	130298	521190	315181	20.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.73	-0.15
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.07	0.05

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

RECOVERY REPORT

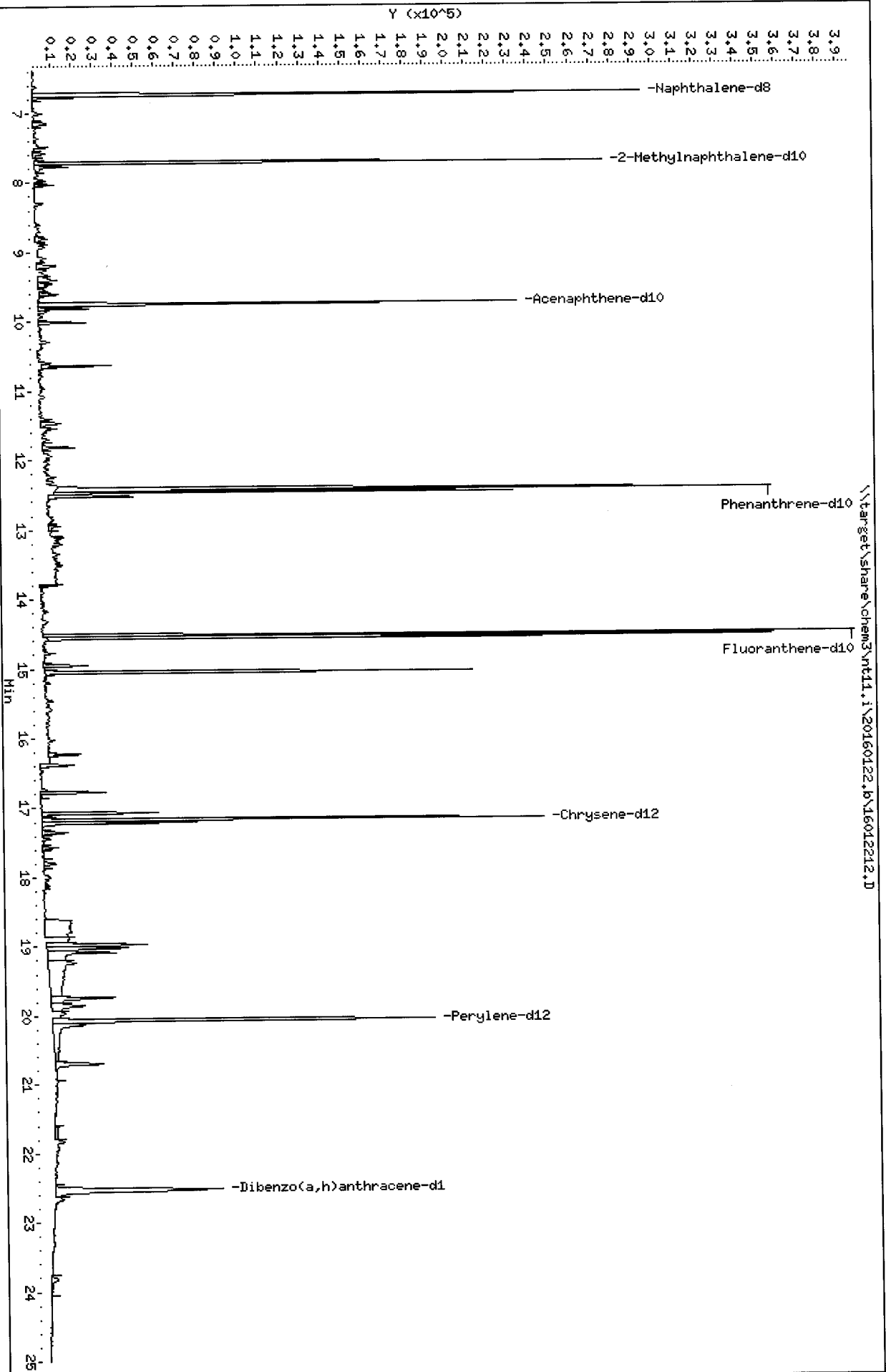
Client Name: Anchor QEA, LLC
Sample Matrix: SOLID
Lab Smp Id: ATSOB
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: PEMD.sub
Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
Misc Info: 16-136

Client SDG: ATSO
Fraction: SV
Client Smp ID: PG-PJ-1-MUS-COC-160
Operator: JW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	15000	7140	47.67	30-160
\$ 23 Fluoranthene-d10	15000	9500	63.41	30-160
\$ 36 Dibenzo(a,h) anthra	15000	10300	68.43	30-160

Data File: \\target\share\chem3\nt11.i\20160122.b\16012212.D
Date : 22-JAN-2016 12:58
Client ID: PG-PJ-1-MUS-COC-160
Sample Info: ATSOB
Volume Injected (uL): 2.0
Column phase: Rxi-17S11 HS

Instrument: nt11.i
Operator: JM
Column diameter: 0.25



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

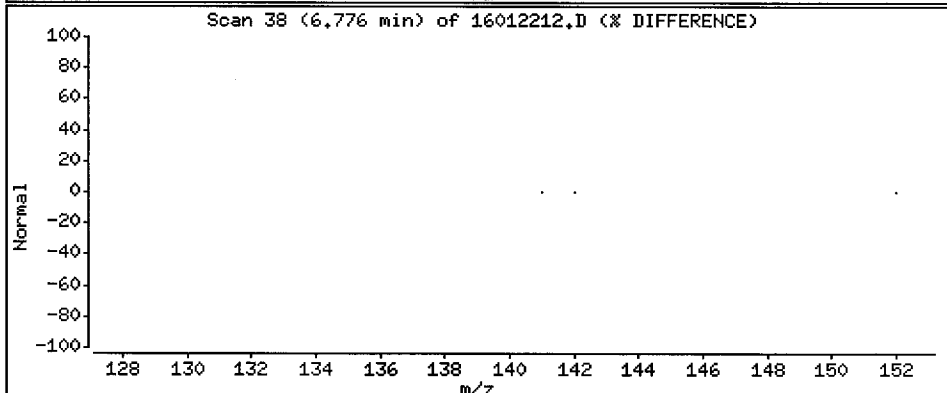
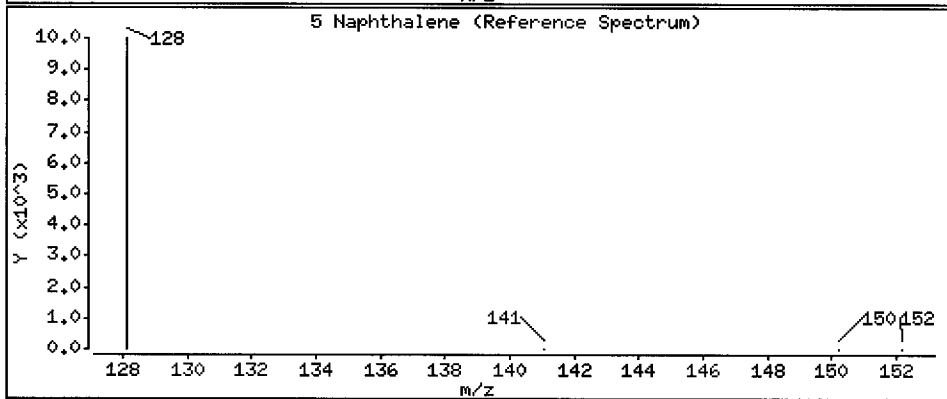
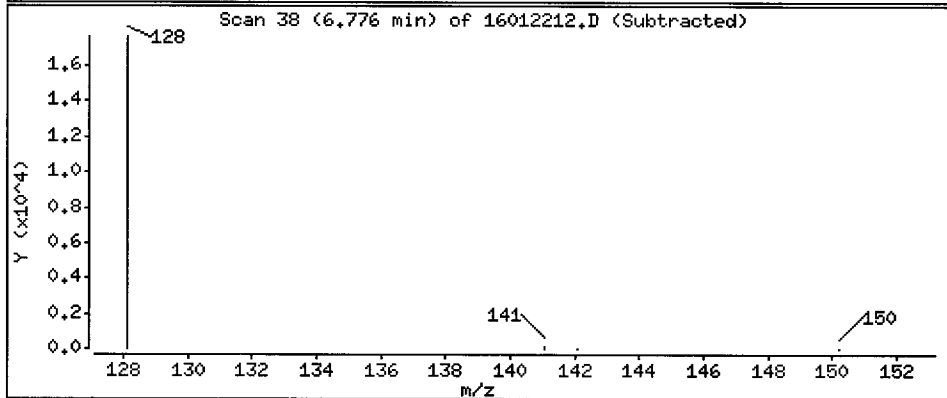
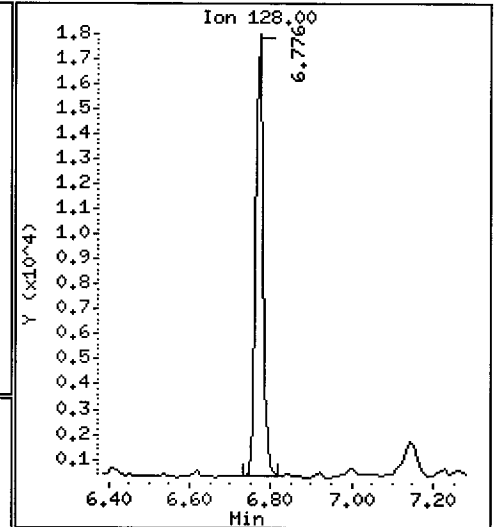
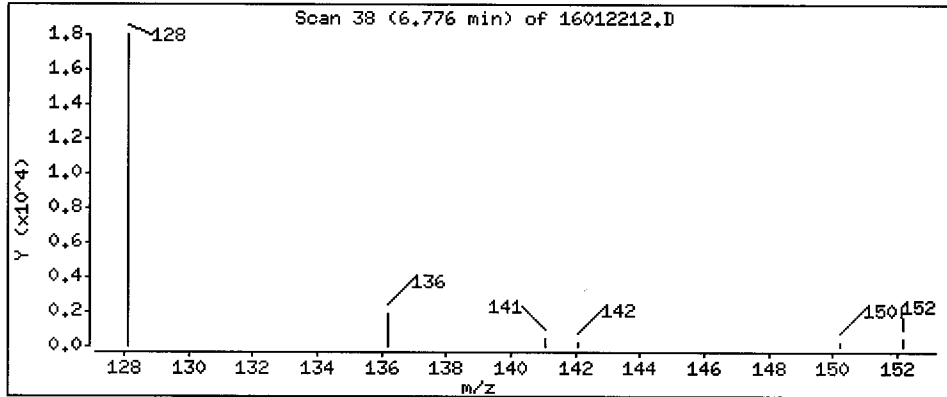
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 557 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

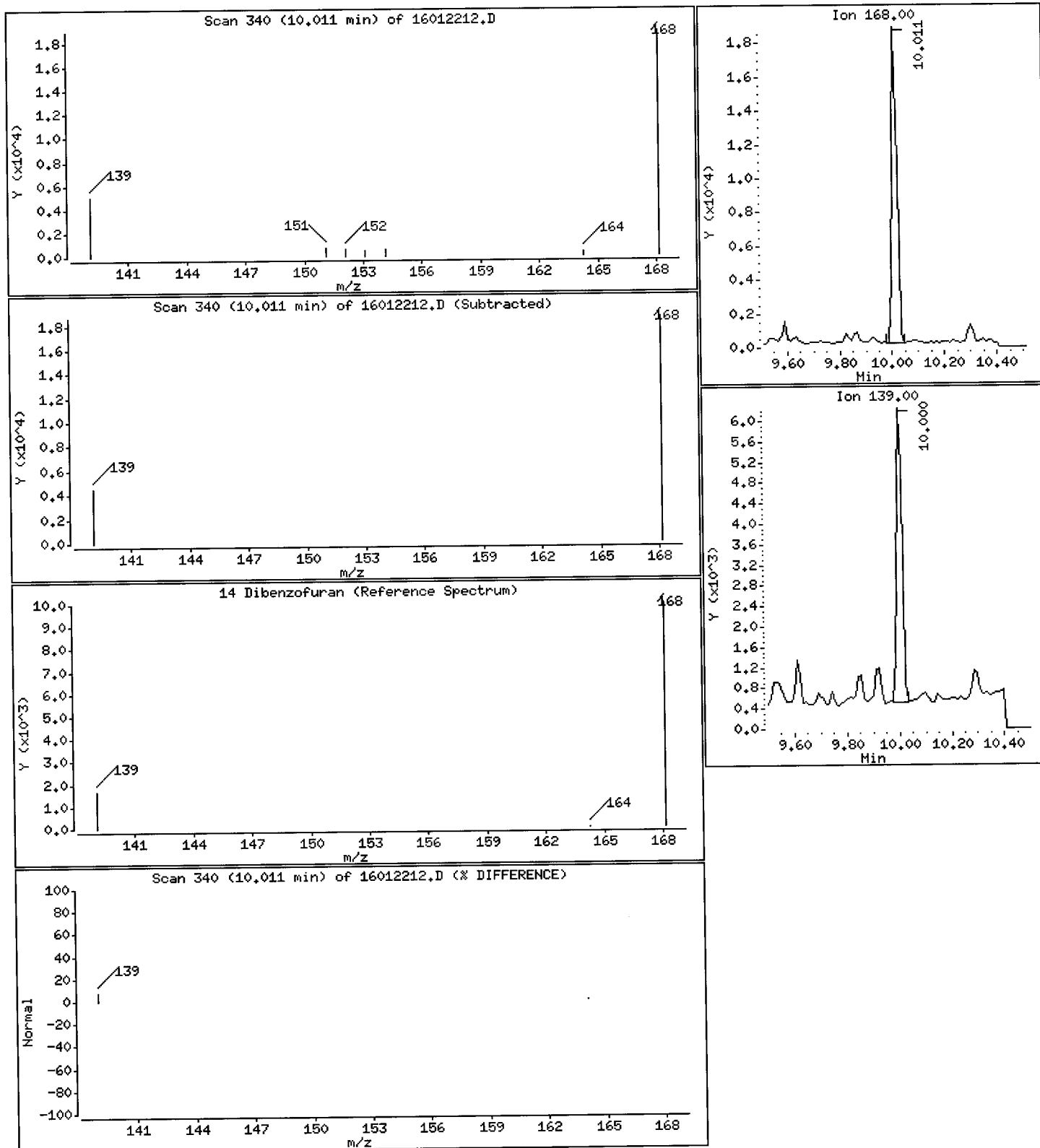
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

14 Dibenzofuran

Concentration: 517 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-CDC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

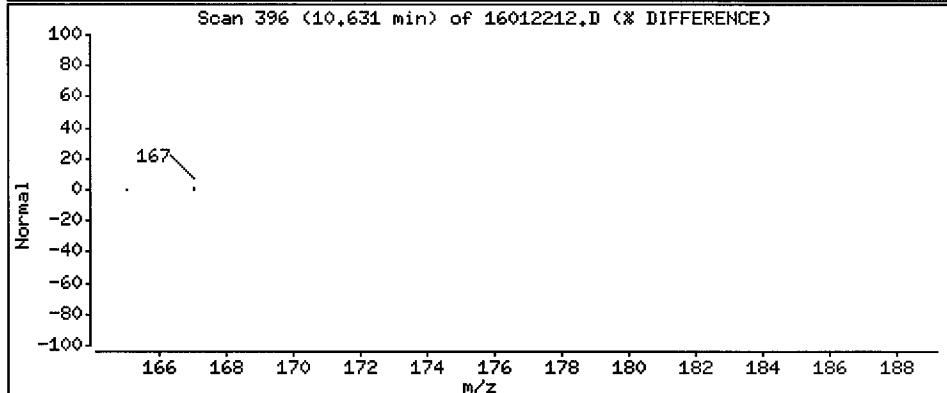
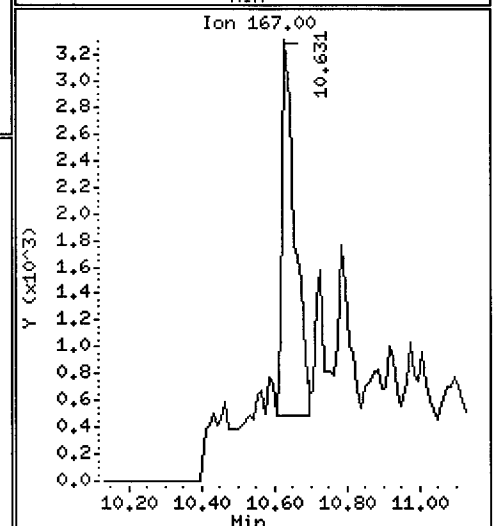
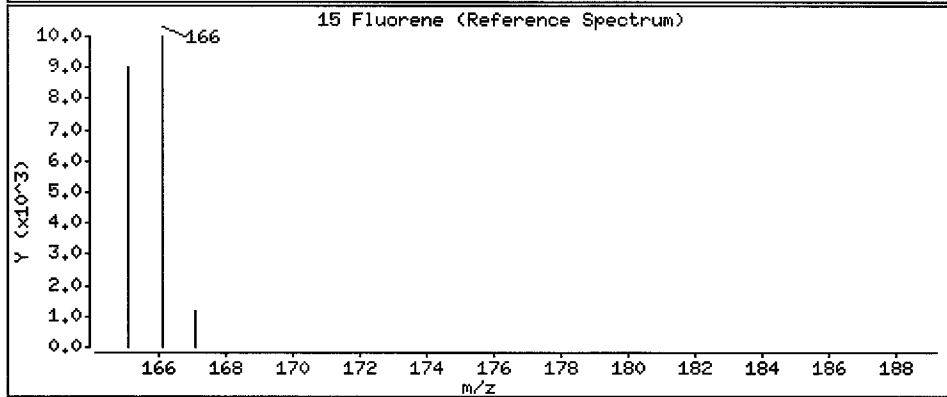
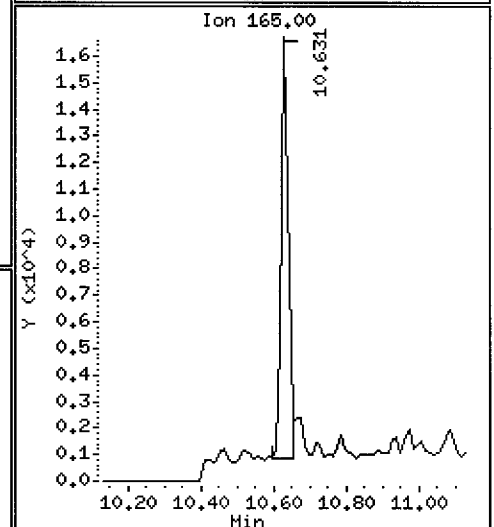
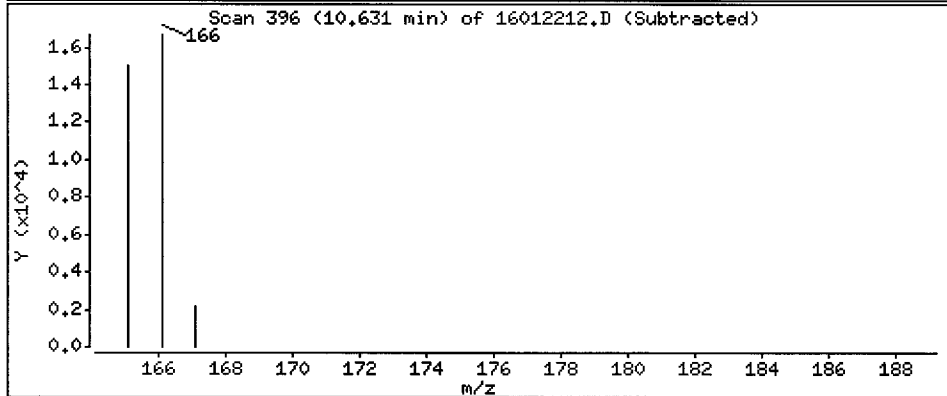
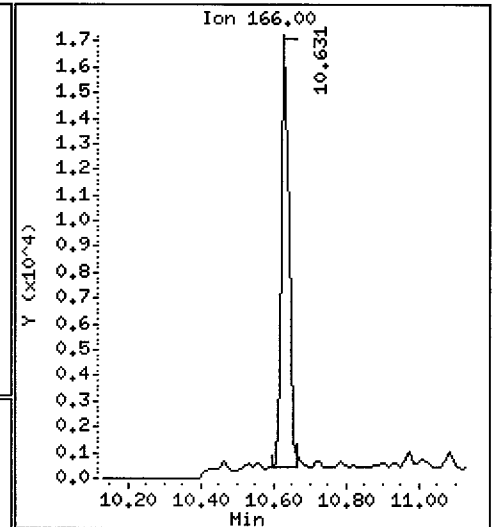
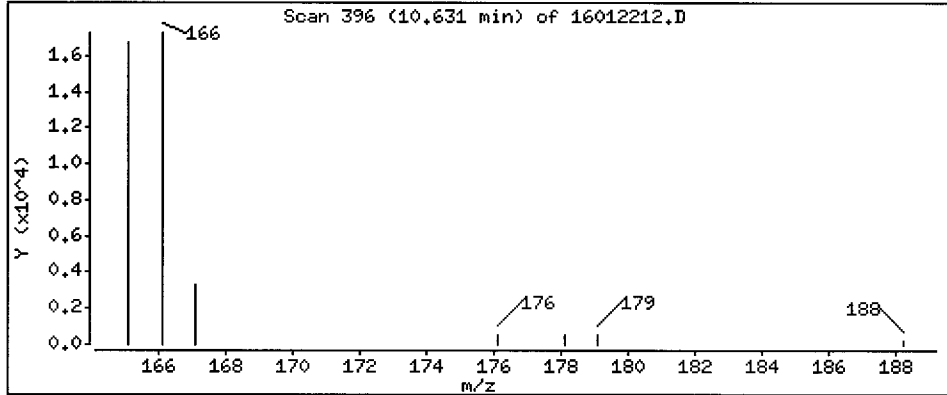
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

15 Fluorene

Concentration: 655 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0B

Volume Injected (uL): 2.0

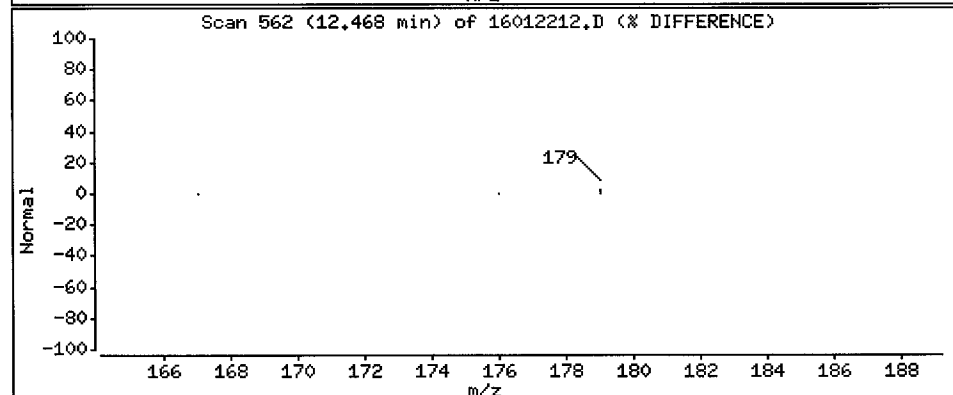
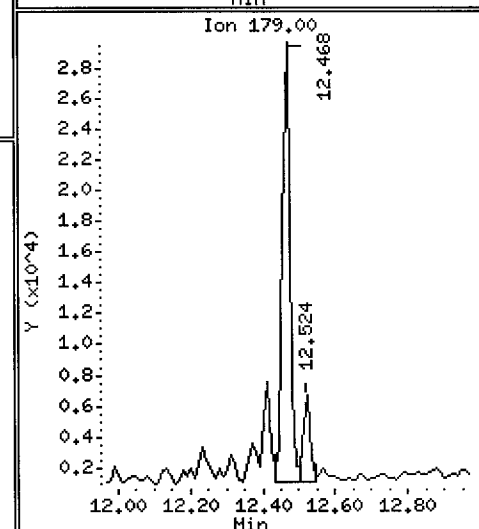
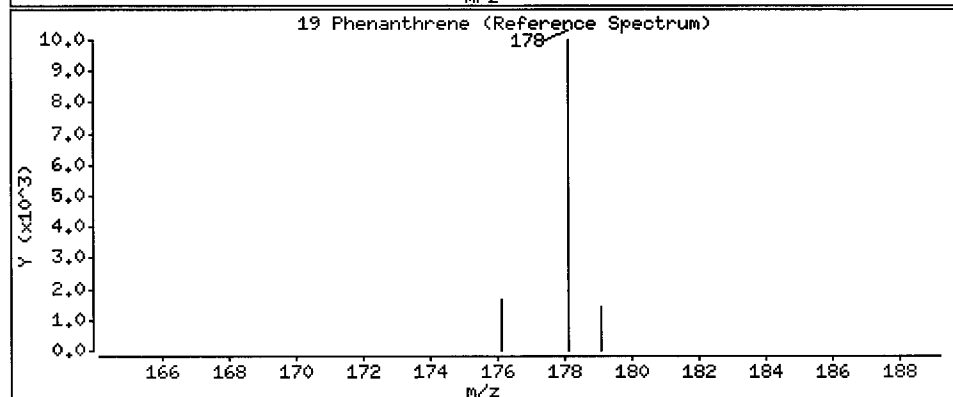
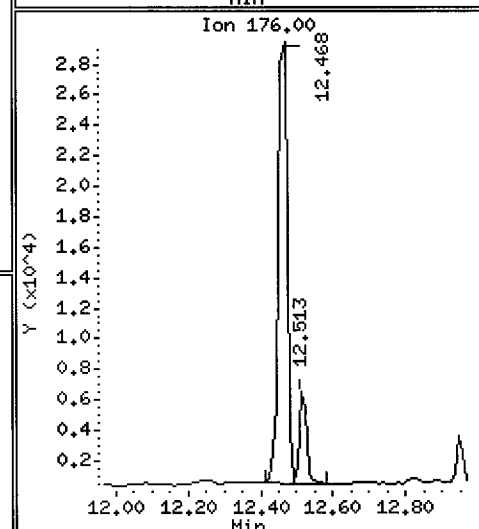
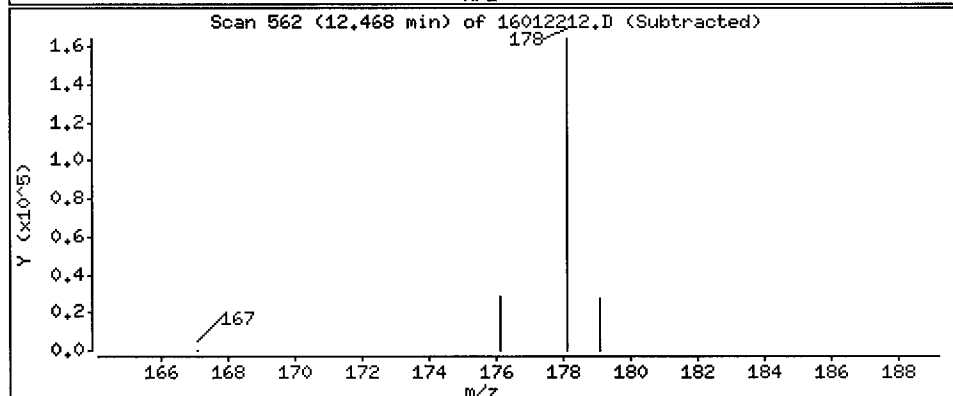
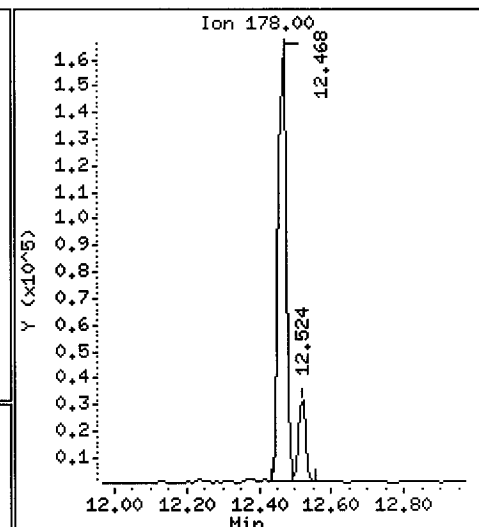
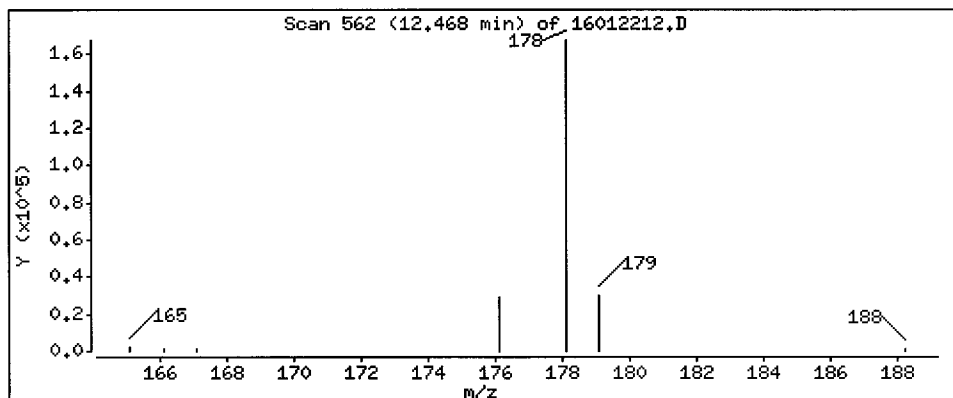
Operator: JW

Column phase: Rxi-17S11 MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 4290 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

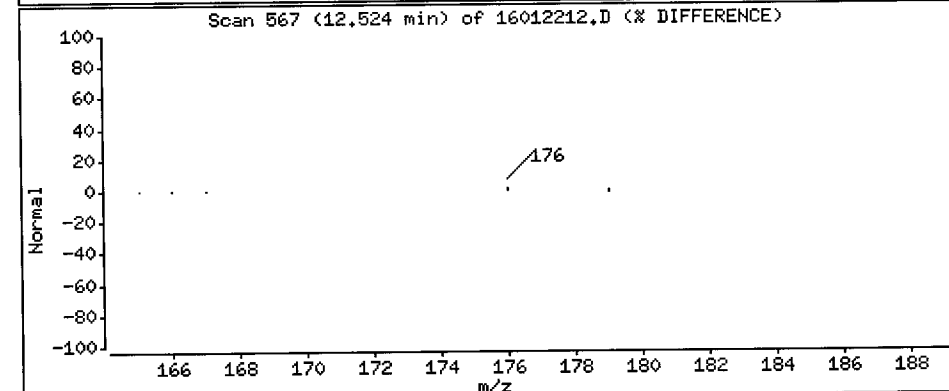
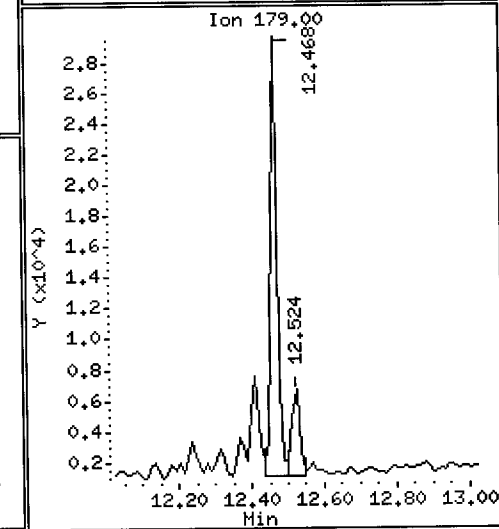
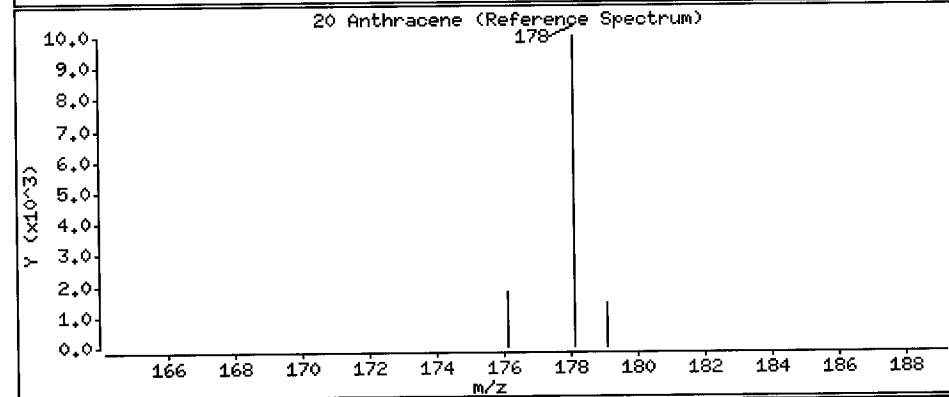
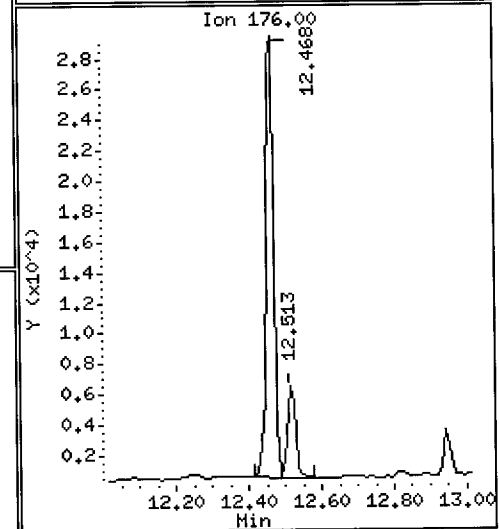
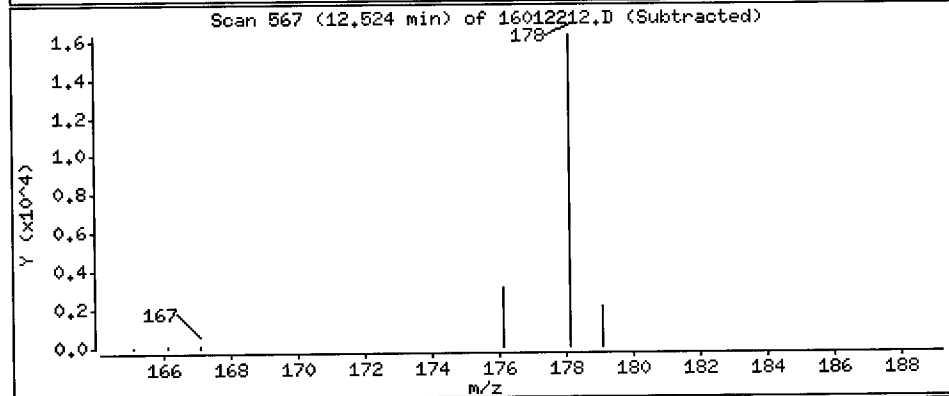
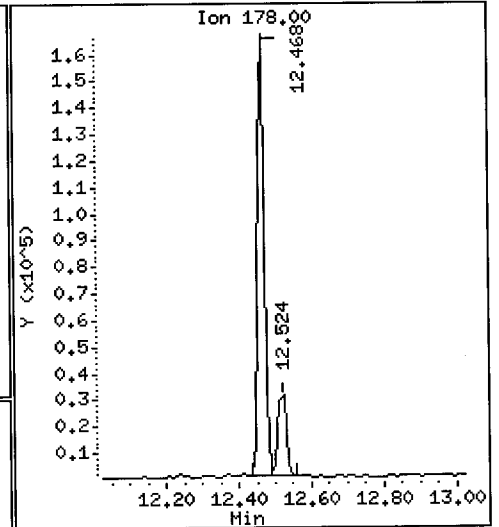
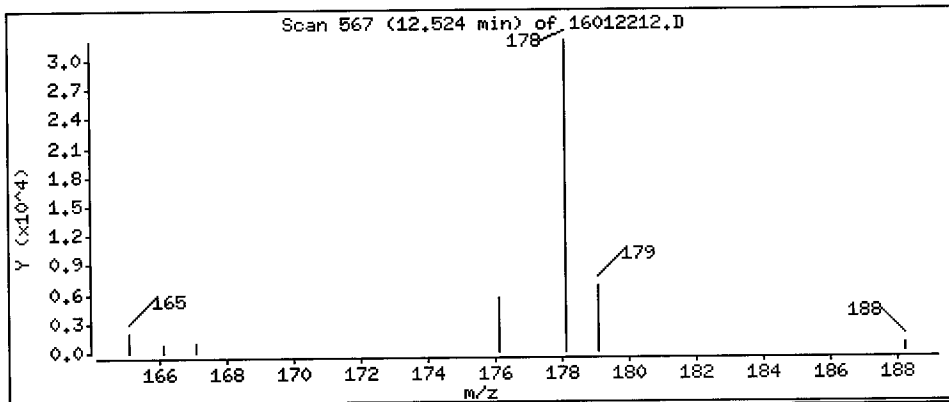
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

20 Anthracene

Concentration: 988 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: AT50B

Volume Injected (uL): 2.0

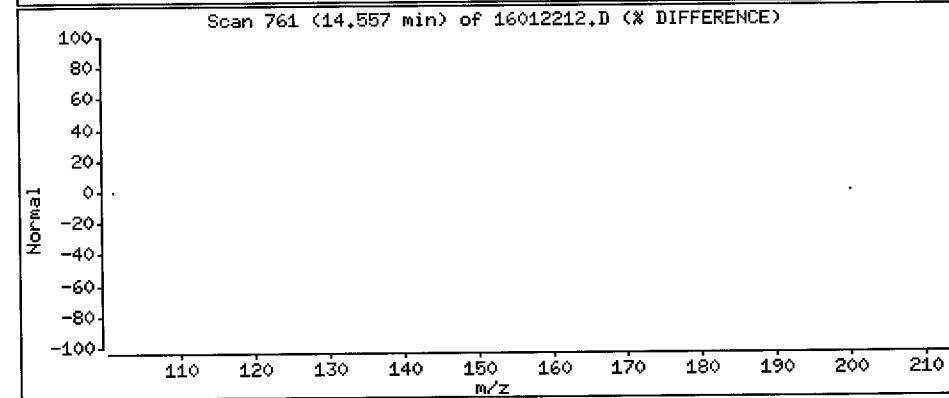
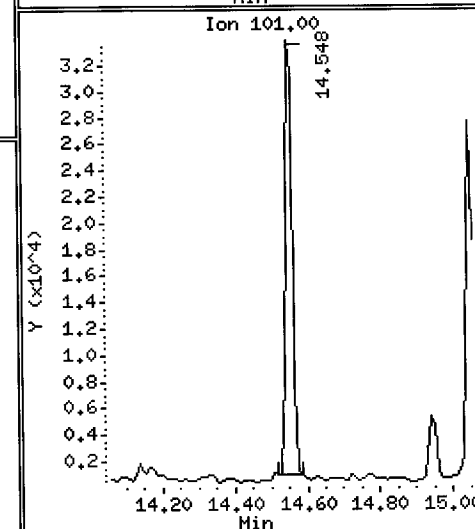
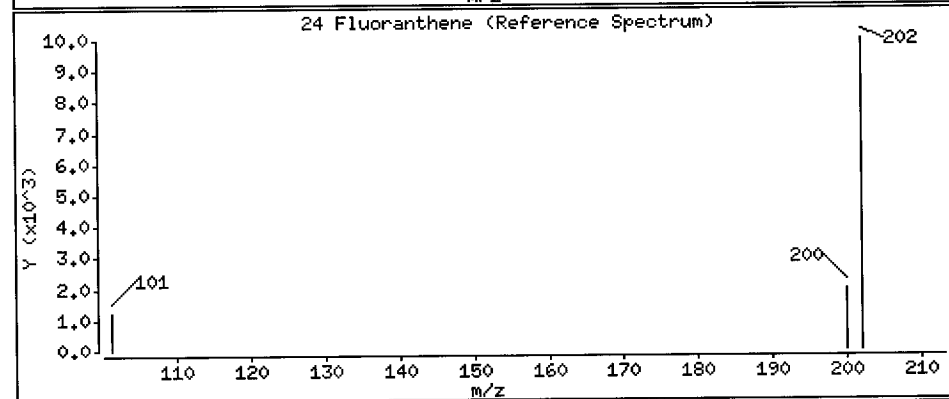
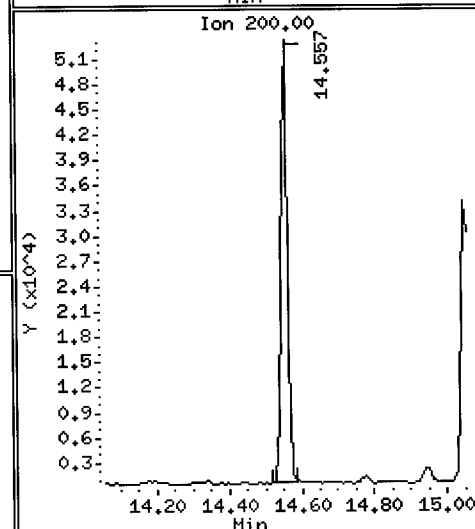
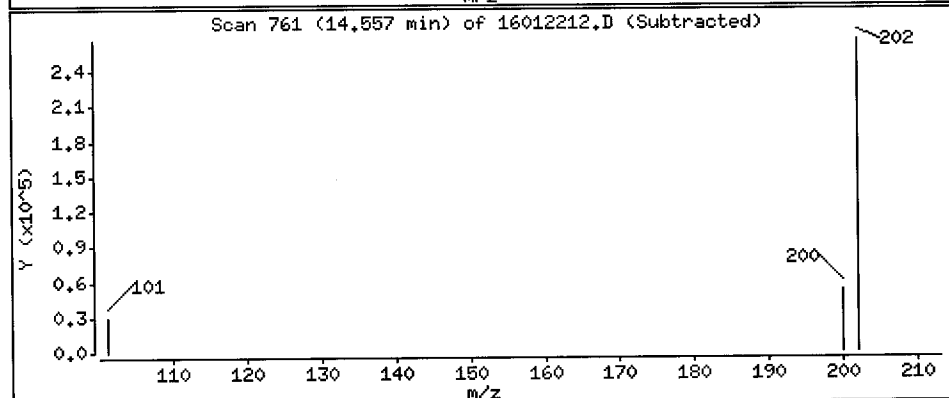
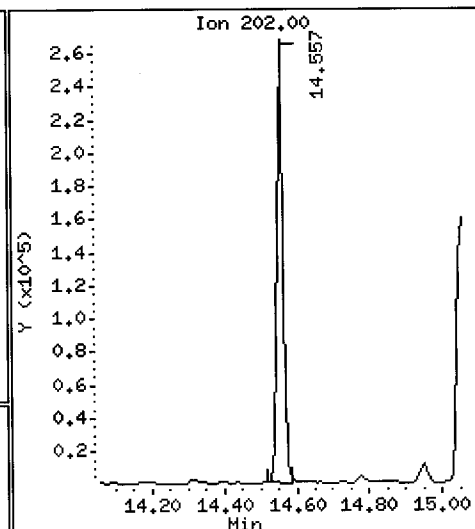
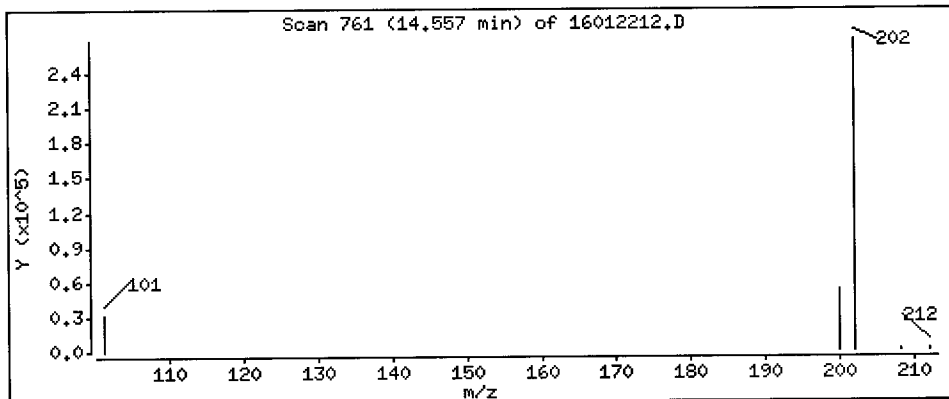
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 6280 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: AT50B

Volume Injected (uL): 2.0

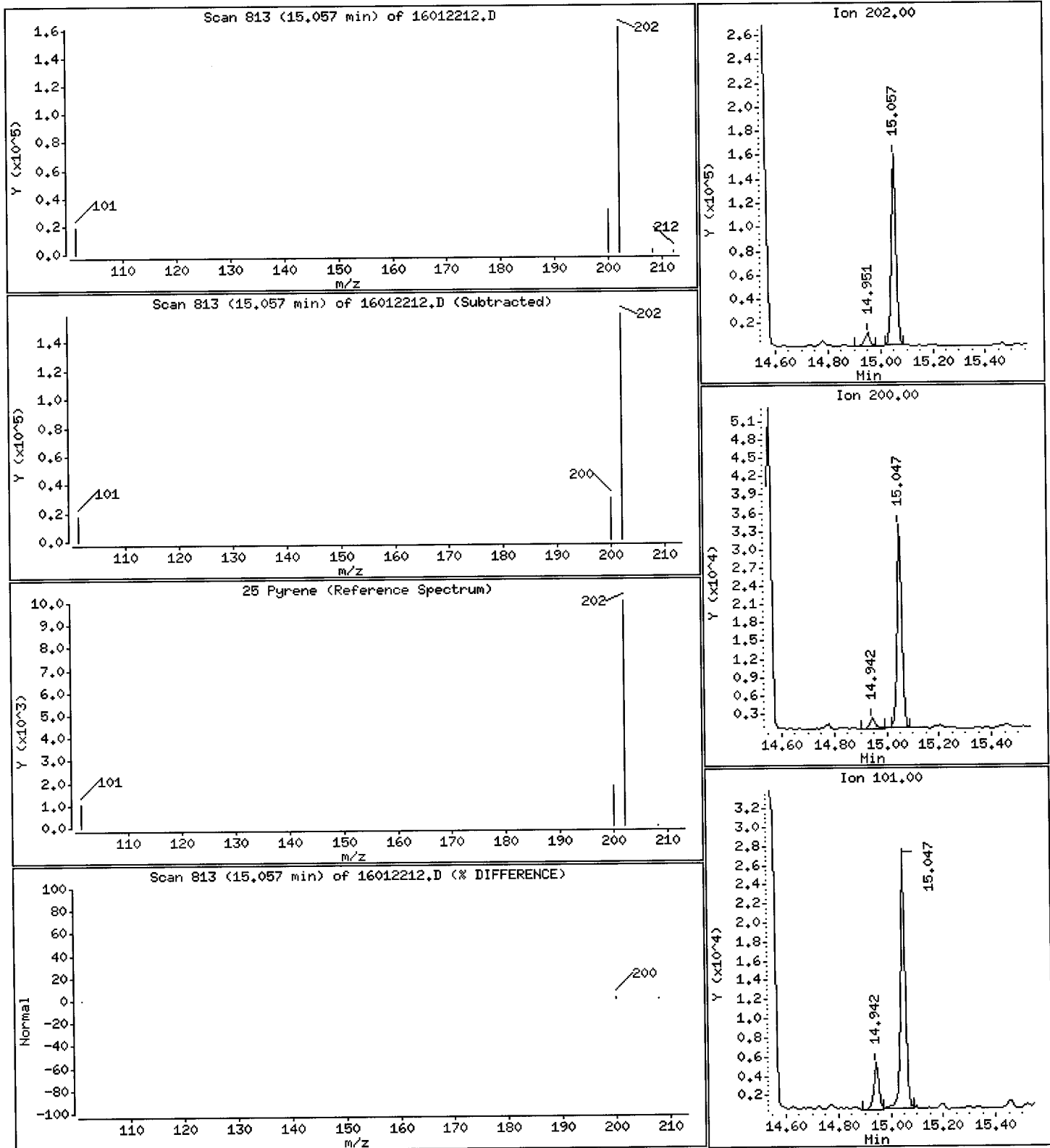
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 4340 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

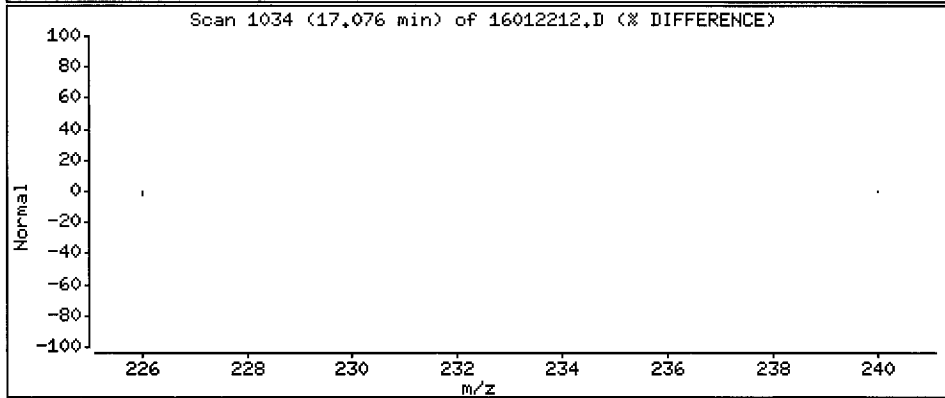
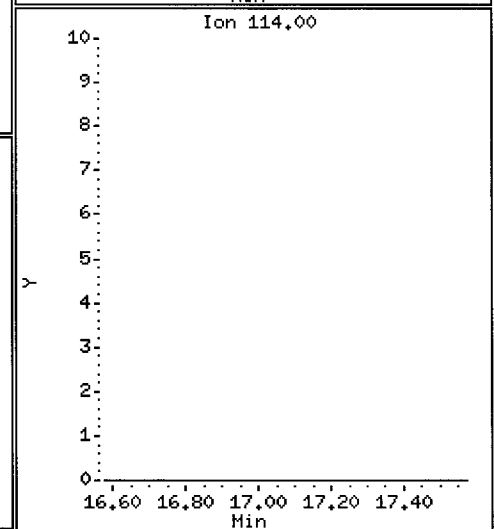
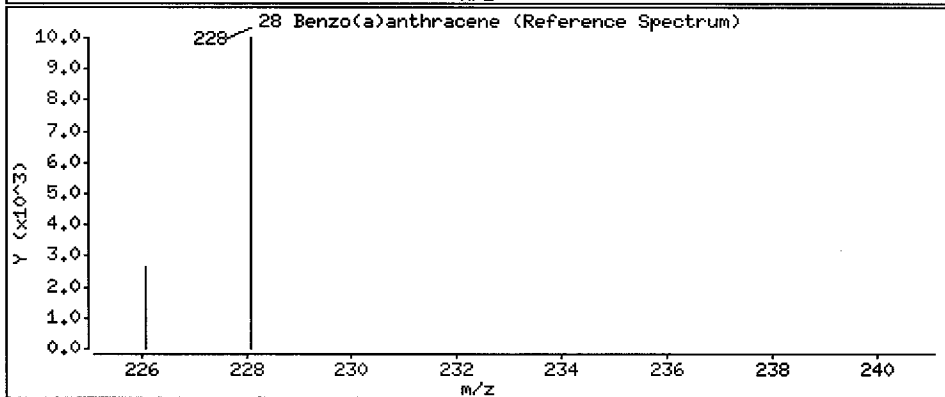
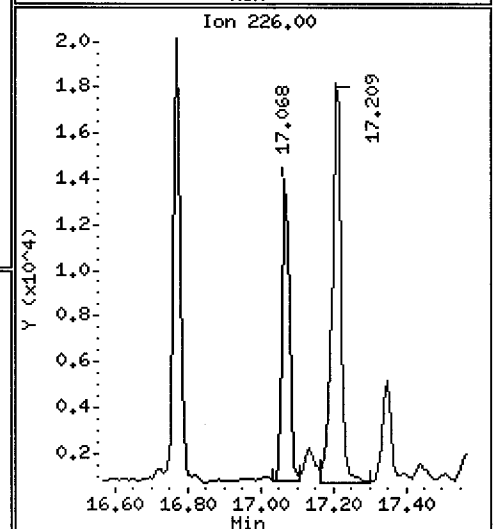
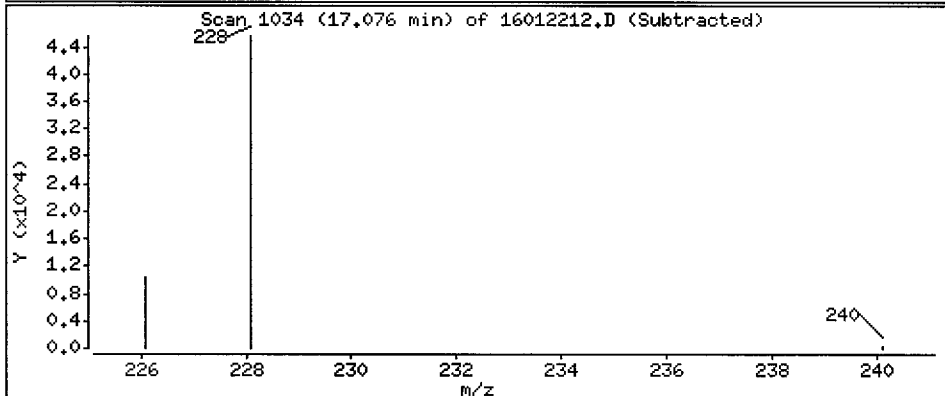
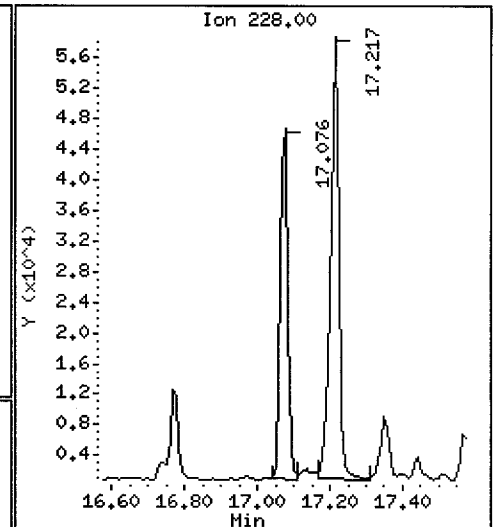
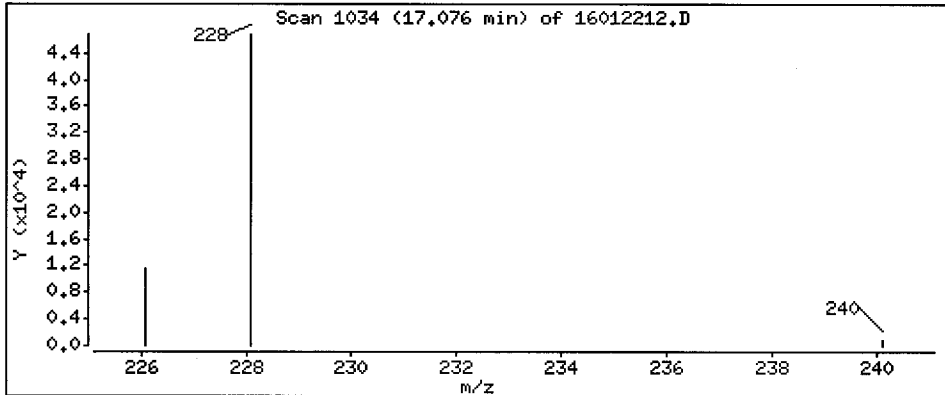
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 1510 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: AT50B

Volume Injected (uL): 2.0

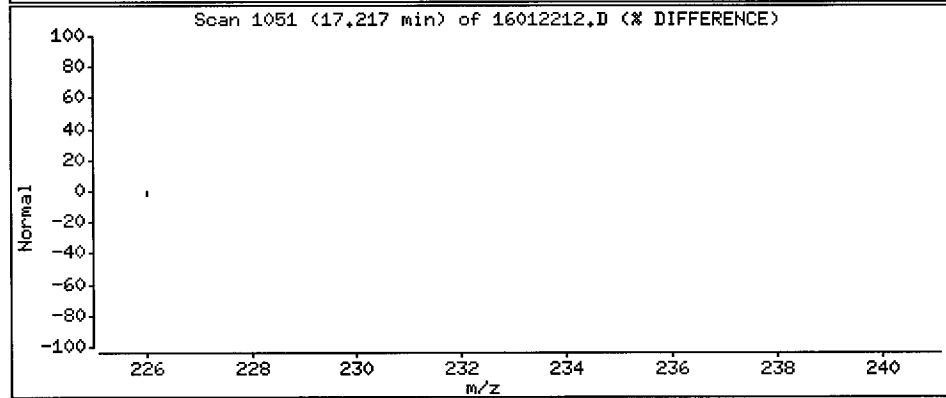
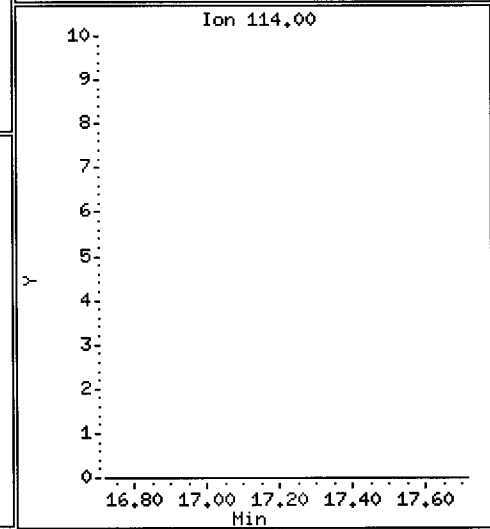
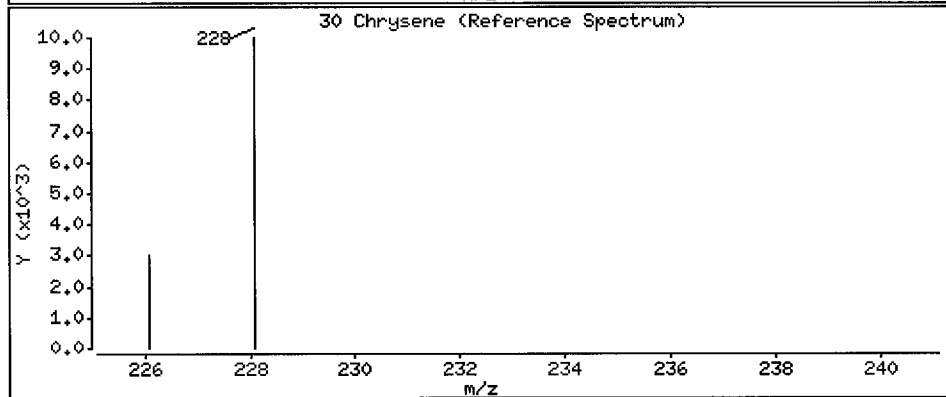
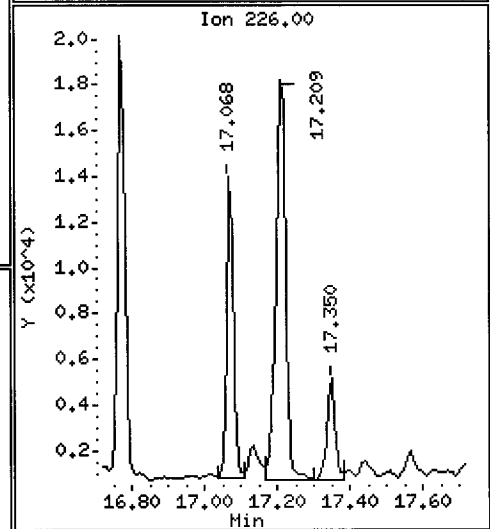
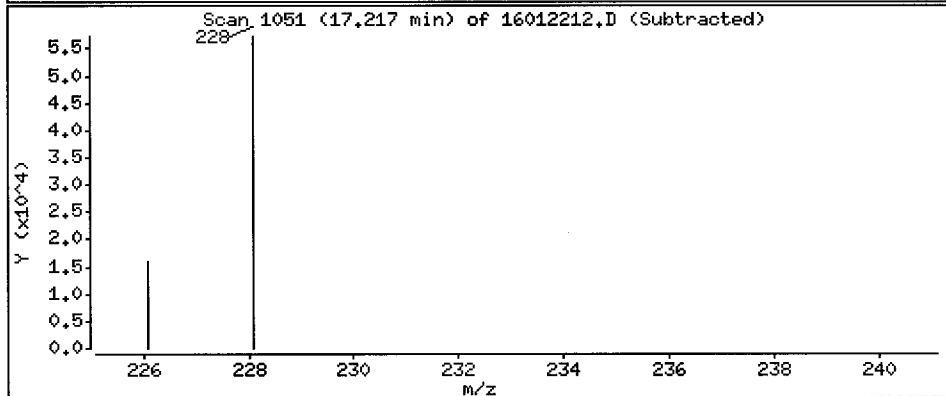
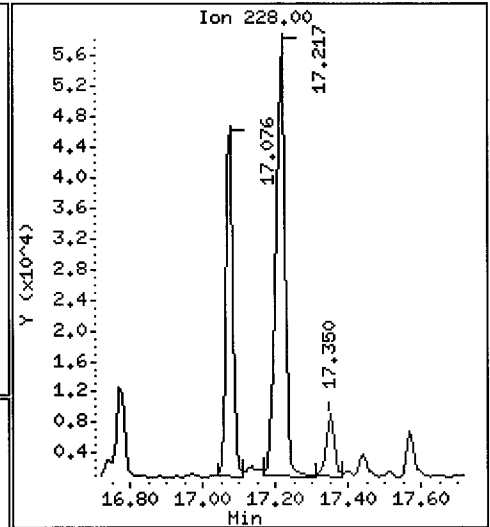
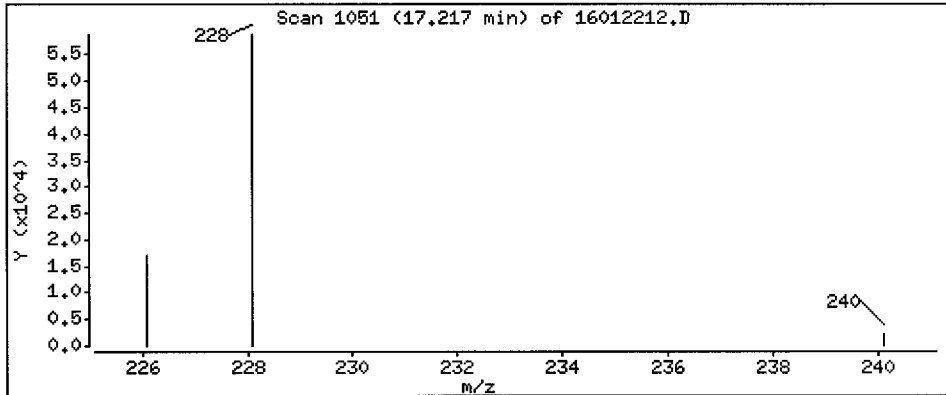
Operator: JW

Column phase: Rxi-17Si11 MS

Column diameter: 0.25

30 Chrysene

Concentration: 2060 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0B

Volume Injected (uL): 2.0

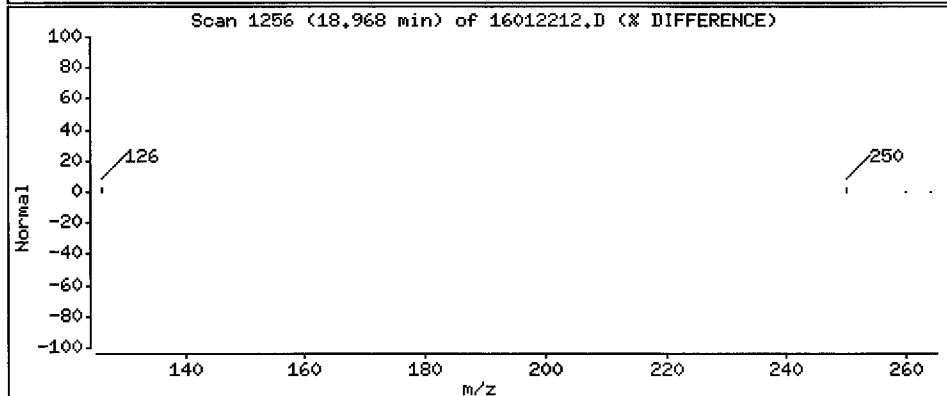
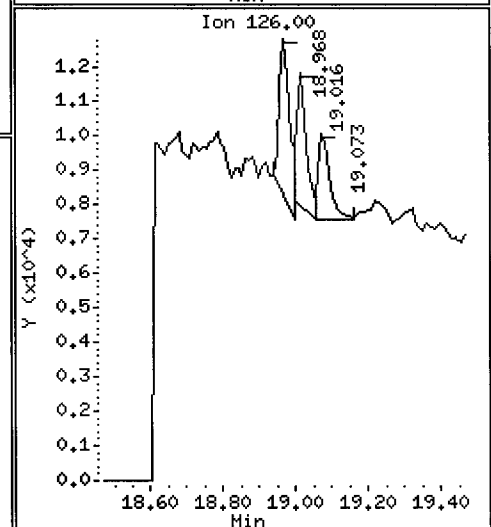
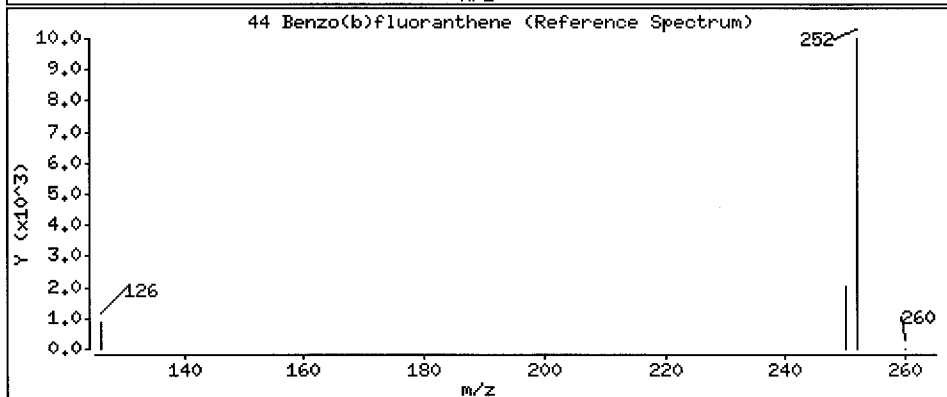
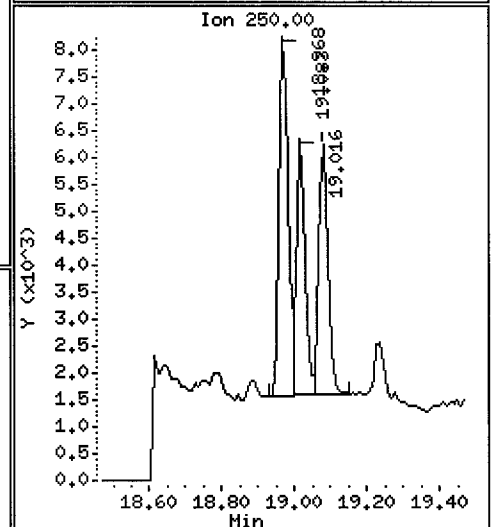
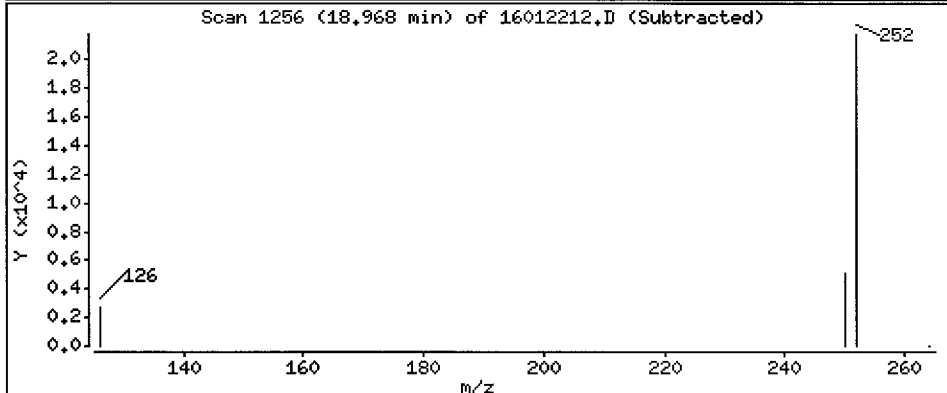
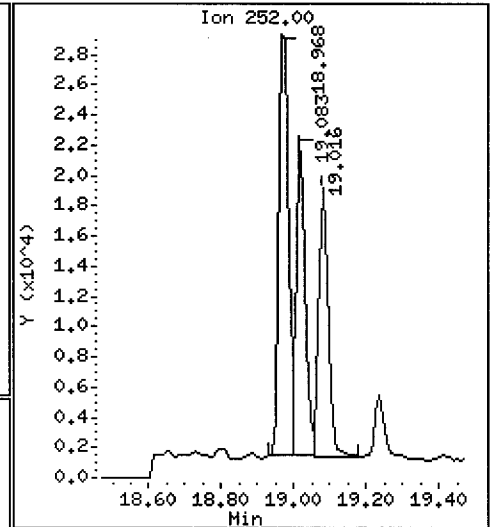
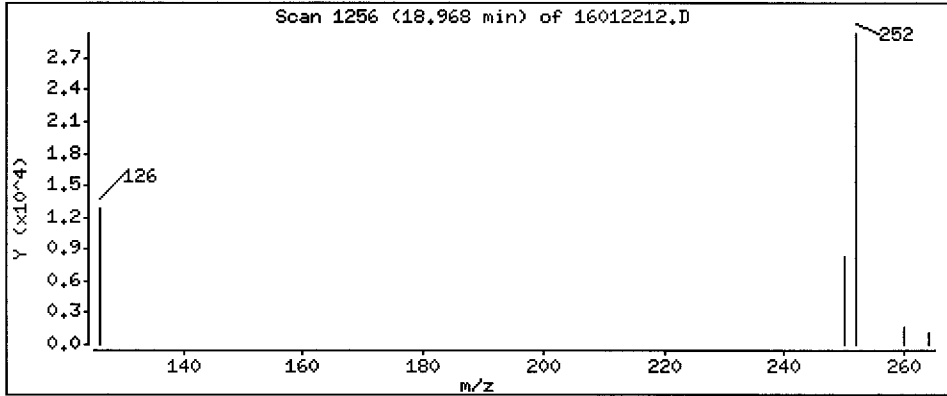
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 1200 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

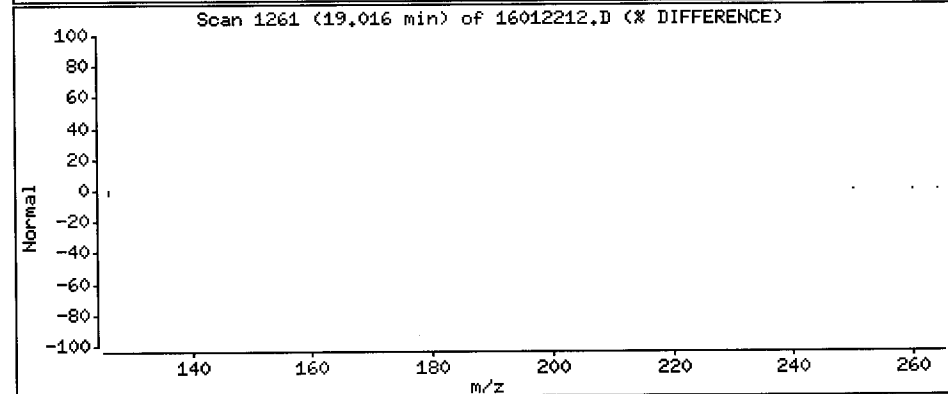
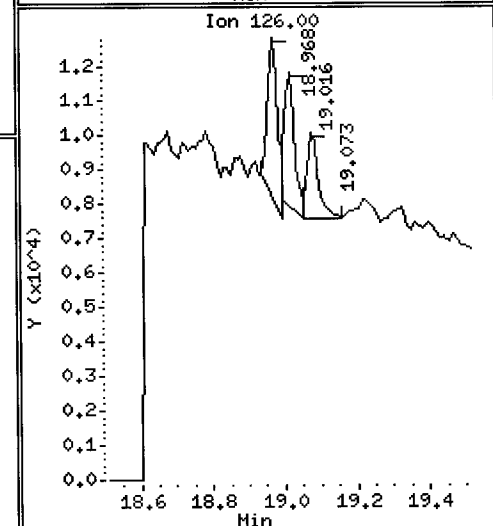
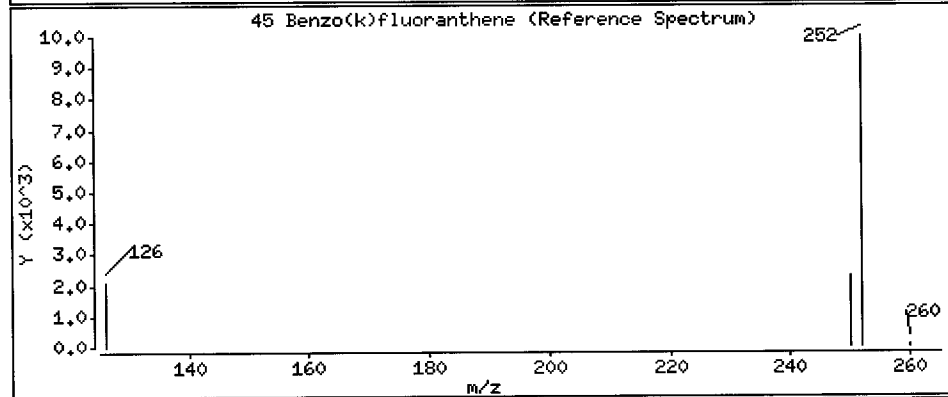
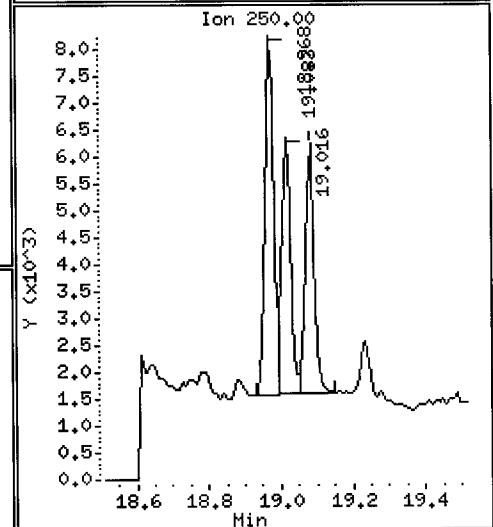
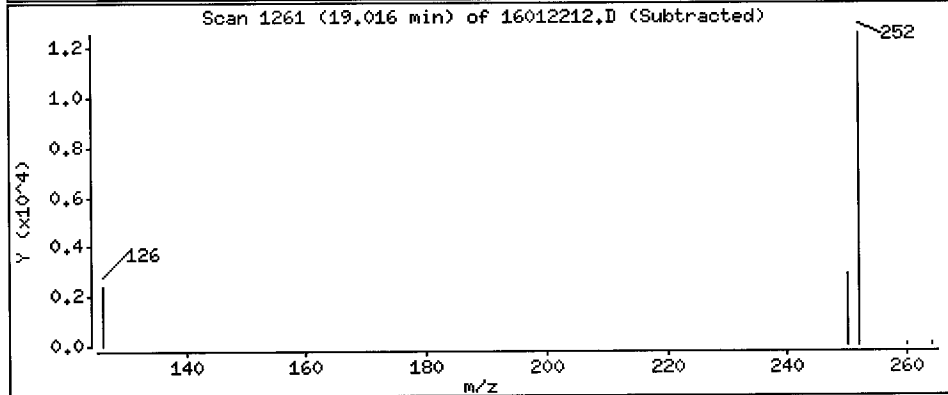
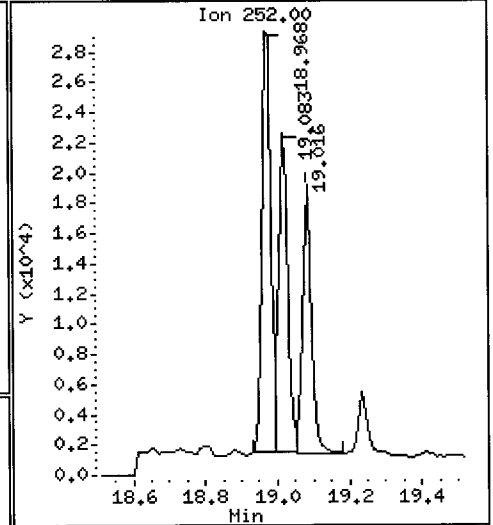
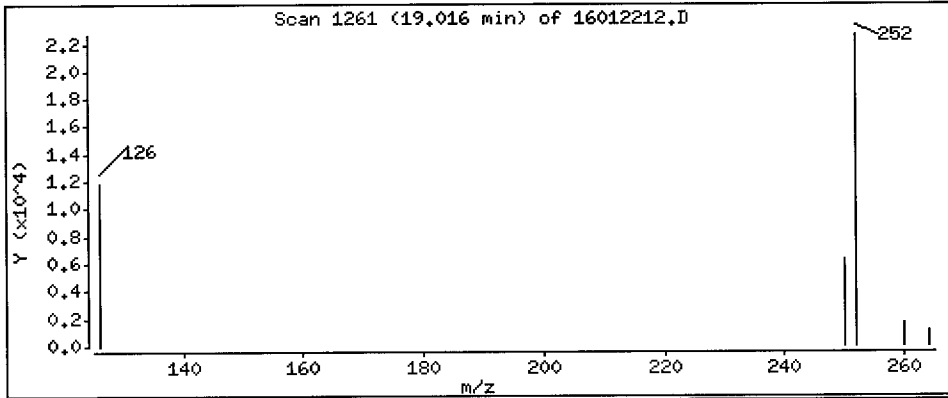
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 785 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

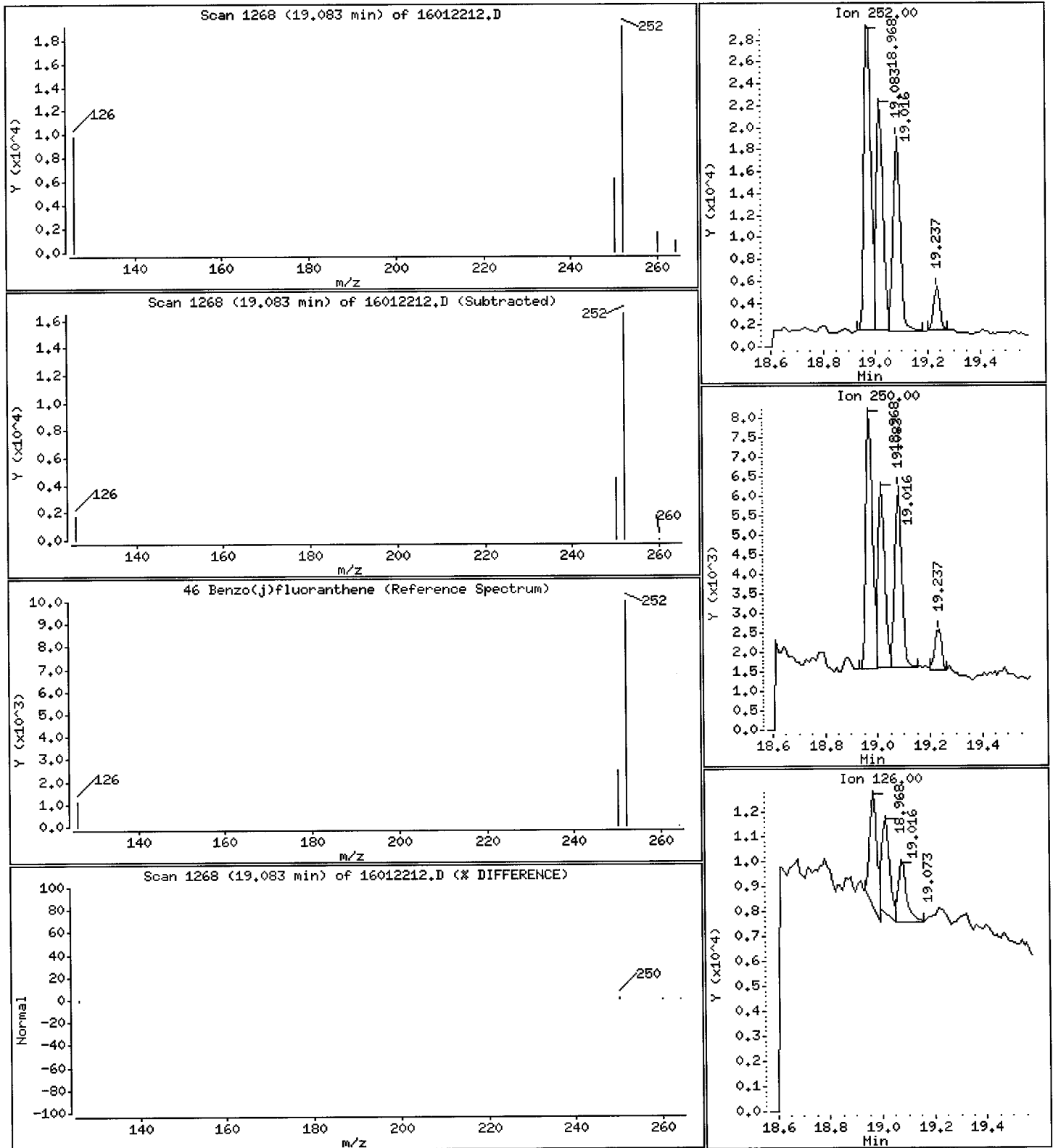
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 701 ug/kg



Date : 22-JAN-2016 12:58

Client ID: PG-PJ-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOB

Volume Injected (uL): 2.0

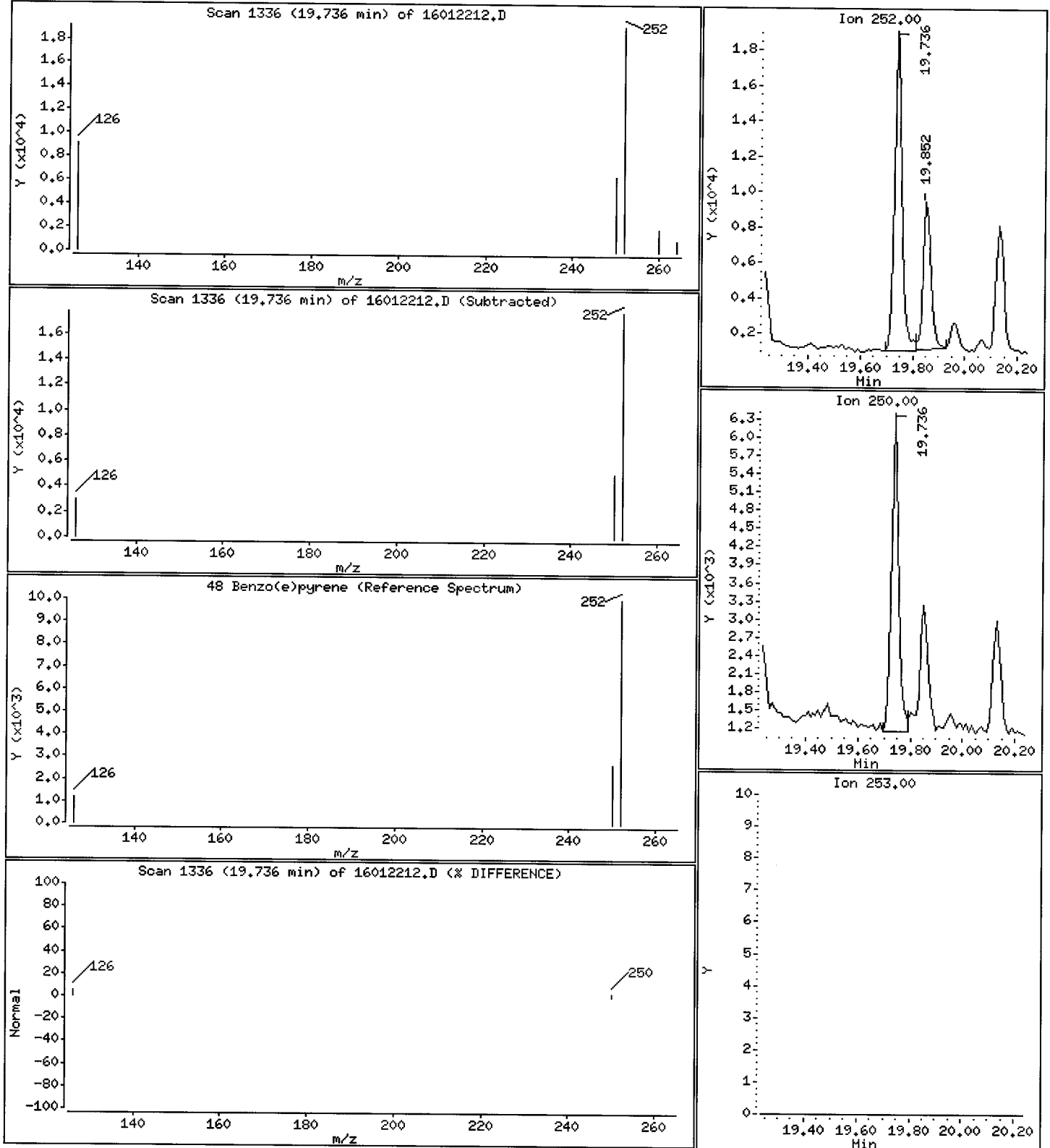
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 869 ug/kg



Lab ID: ATS0B

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 12:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012213.D
 Lab Smp Id: ATSOBMS Client Smp ID: PG-PJ-1-MUS-COC MS
 Inj Date : 22-JAN-2016 13:28 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOBMS
 Misc Info : 16-136
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 7 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.010	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

JW
1/25/16

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN	FINAL
			MASS	RT	EXP RT	REL RT	RESPONSE	(ng/mL)
* 4 Naphthalene-d8	136		6.734	6.744	(1.000)	373582	200.000	
5 Naphthalene	128		6.776	6.776	(1.006)	310983	144.115	7200
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.145)	202176	145.802	7280
7 2-Methylnaphthalene	142		7.774	7.774	(1.154)	237051	159.881	7990
8 1-Methylnaphthalene	142		8.026	8.026	(1.192)	214233	160.333	8010
10 Acenaphthylene	152		9.589	9.589	(0.984)	396096	182.421	9110
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	269039	200.000	
12 Acenaphthene	153		9.811	9.811	(1.007)	255738	177.451	8860
14 Dibenzofuran	168		10.010	10.010	(1.027)	393896	181.430	9060
15 Fluorene	166		10.630	10.630	(1.091)	332819	204.405	10200
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	428623	200.000	
19 Phenanthrene	178		12.468	12.468	(1.004)	658221	254.889	12700
20 Anthracene	178		12.523	12.523	(1.008)	511355	221.222	11100
\$ 23 Fluoranthene-d10	212		14.519	14.518	(1.169)	449914	190.871	9530
24 Fluoranthene	202		14.557	14.557	(1.172)	790055	304.725	15200
25 Pyrene	202		15.057	15.057	(0.877)	714918	278.301	13900
28 Benzo (a) anthracene	228		17.075	17.075	(0.995)	501429	231.852	11600
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	324379	200.000	
30 Chrysene	228		17.217	17.217	(1.003)	523693	220.628	11000
44 Benzo (b) fluoranthene	252		18.967	18.967	(0.945)	467560	213.641	10700
45 Benzo (k) fluoranthene	252		19.015	19.015	(0.948)	468934	183.874	9180

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/kg)
=====	=====	=====	=====	=====	=====	=====	=====
46 Benzo (j) fluoranthene	252	19.082	19.082	(0.951)	415194	178.720	8930
34 Benzo (a) pyrene	252	19.851	19.851	(0.989)	404793	191.651	9570
* 35 Perylene-d12	264	20.062	20.062	(1.000)	323020	200.000	
\$ 36 Dibenzo (a,h) anthracene-d14	292	22.529	22.529	(1.123)	268034	205.585	10300
37 Indeno (1,2,3-cd) pyrene	276	22.662	22.662	(1.130)	455508	205.399	10300
38 Dibenzo (a,h) anthracene	278	22.639	22.651	(1.128)	370717	211.395	10600
39 Benzo (g,h,i) perylene	276	23.825	23.814	(1.188)	390376	202.774	10100
47 Perylene	252	20.130	20.130	(1.003)	406280	185.534	9270
48 Benzo (e) pyrene	252	19.736	19.736	(0.984)	426521	192.840	9630

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012213.D
 Lab Smp Id: ATSOBMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-136

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-PJ-1-MUS-COC
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	373582	13.93
11 Acenaphthene-d10	239179	119590	478358	269039	12.48
18 Phenanthrene-d10	372253	186127	744506	428623	15.14
29 Chrysene-d12	294711	147356	589422	324379	10.07
35 Perylene-d12	260595	130298	521190	323020	23.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.73	-0.16
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

RECOVERY REPORT

Client Name: Anchor
 Sample Matrix: SOLID
 Lab Smp Id: ATSOBMS
 Level: LOW

Client SDG: ATSO
 Fraction: SV
 Client Smp ID: PG-PJ-1-MUS-COC MS
 Operator: JW
 SampleType: MS
 Quant Type: ISTD

Data Type: MS DATA
 SpikeList File: PEMDTISS.spk
 Sublist File: PEMD.sub
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-136

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
5 Naphthalene	15000	7200	48.04	30-160
7 2-Methylnaphthalen	15000	7990	53.29	30-160
10 Acenaphthylene	15000	9110	60.81	30-160
12 Acenaphthene	15000	8860	59.15	30-160
15 Fluorene	15000	10200	68.14	30-160
19 Phenanthrene	15000	12700	84.96	30-160
20 Anthracene	15000	11100	73.74	30-160
24 Fluoranthene	15000	15200	101.58	30-160
25 Pyrene	15000	13900	92.77	30-160
28 Benzo(a)anthracene	15000	11600	77.28	30-160
30 Chrysene	15000	11000	73.54	30-160
44 Benzo(b)fluoranthene	15000	10700	71.21	30-160
45 Benzo(k)fluoranthene	15000	9180	61.29	30-160
34 Benzo(a)pyrene	15000	9570	63.88	30-160
37 Indeno(1,2,3-cd)py	15000	10300	68.47	30-160
38 Dibenzo(a,h)anthra	15000	10600	70.47	30-160
39 Benzo(g,h,i)perylene	15000	10100	67.59	30-160
47 Perylene	15000	9270	61.84	30-160
48 Benzo(e)pyrene	15000	9630	64.28	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	15000	7280	48.60	30-160
\$ 23 Fluoranthene-d10	15000	9530	63.62	30-160
\$ 36 Dibenzo(a,h)anthra	15000	10300	68.53	30-160

Date : 22-JAN-2016 13:28

Client ID: PG-PJ-1-HUS-COC MS

Sample Info: AT50BMS

Volume Injected (uL): 2.0

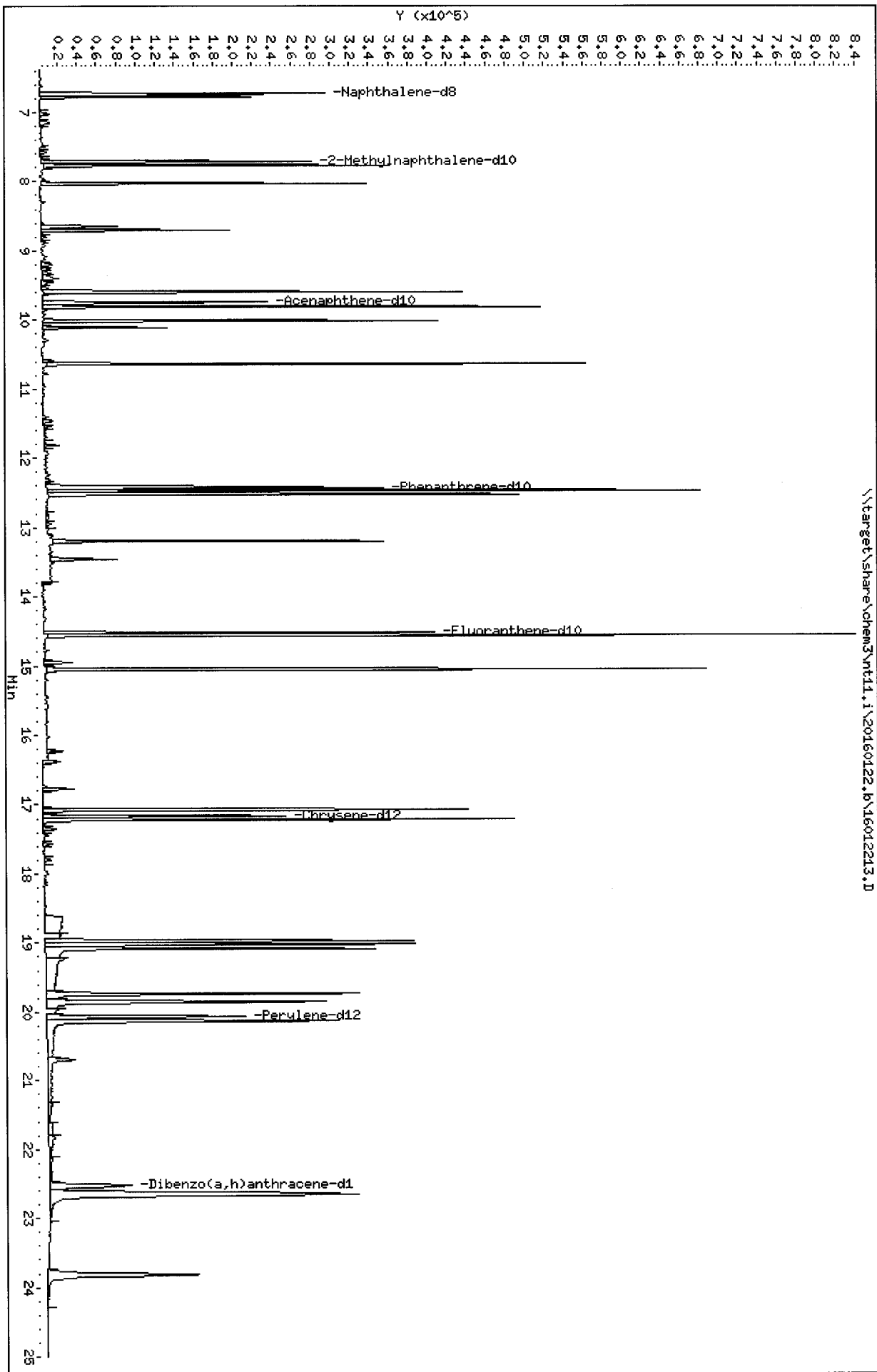
Column phase: Rxi-17S11 MS

Instrument: nt11.i

Operator: JM

Column diameter: 0.25

\\target\share\chem3\nt11.i\20160122.b\16012213.D



Lab ID: ATSOBMS

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 13:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012214.D
 Lab Smp Id: ATSOBMSD Client Smp ID: PG-PJ-1-MUS-COC MSD
 Inj Date : 22-JAN-2016 13:59 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOBMSD
 Misc Info : 16-136
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 8 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

Handwritten: 1/25/16

Compounds	QUANT	SIG					CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)
* 4 Naphthalene-d8	136		6.734	6.744	(1.000)	377287	200.000	
5 Naphthalene	128		6.776	6.776	(1.006)	253330	116.245	5810
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.145)	159711	114.047	5700
7 2-Methylnaphthalene	142		7.774	7.774	(1.154)	194100	129.627	6480
8 1-Methylnaphthalene	142		8.026	8.026	(1.192)	176045	130.459	6520
10 Acenaphthylene	152		9.589	9.589	(0.984)	333557	152.119	7610
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	271691	200.000	
12 Acenaphthene	153		9.811	9.811	(1.007)	214891	147.652	7380
14 Dibenzofuran	168		10.010	10.010	(1.027)	332021	151.438	7570
15 Fluorene	166		10.630	10.630	(1.091)	283636	172.499	8620
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	435691	200.000	
19 Phenanthrene	178		12.468	12.468	(1.004)	573821	218.601	10900
20 Anthracene	178		12.523	12.523	(1.008)	445698	189.690	9480
\$ 23 Fluoranthene-d10	212		14.519	14.518	(1.169)	383550	160.077	8000
24 Fluoranthene	202		14.557	14.557	(1.172)	700458	265.785	13300
25 Pyrene	202		15.057	15.057	(0.877)	628008	243.720	12200
28 Benzo (a) anthracene	228		17.076	17.075	(0.995)	439984	202.818	10100
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	325376	200.000	
30 Chrysene	228		17.217	17.217	(1.003)	465181	195.377	9770
44 Benzo (b) fluoranthene	252		18.967	18.967	(0.945)	413804	188.243	9410
45 Benzo (k) fluoranthene	252		19.015	19.015	(0.948)	415444	162.181	8110

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/kg)
46 Benzo(j) fluoranthene	252	19.082	19.082	(0.951)	368467	157.906	7900
34 Benzo(a) pyrene	252	19.851	19.851	(0.989)	360789	170.063	8500
* 35 Perylene-d12	264	20.063	20.062	(1.000)	324453	200.000	
\$ 36 Dibenzo(a,h)anthracene-d14	292	22.529	22.529	(1.123)	225915	172.514	8630
37 Indeno(1,2,3-cd) pyrene	276	22.662	22.662	(1.130)	406218	182.364	9120
38 Dibenzo(a,h)anthracene	278	22.640	22.651	(1.128)	326953	185.616	9280
39 Benzo(g,h,i)perylene	276	23.814	23.814	(1.187)	347986	179.957	9000
47 Perylene	252	20.130	20.130	(1.003)	358884	163.166	8160
48 Benzo(e)pyrene	252	19.736	19.736	(0.984)	375648	169.089	8450

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012214.D
 Lab Smp Id: ATS0BMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-136

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-PJ-1-MUS-COC
 Level: LOW
 Sample Type: Tissue

Test Mode:

Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	377287	15.06
11 Acenaphthene-d10	239179	119590	478358	271691	13.59
18 Phenanthrene-d10	372253	186127	744506	435691	17.04
29 Chrysene-d12	294711	147356	589422	325376	10.41
35 Perylene-d12	260595	130298	521190	324453	24.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.73	-0.15
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

RECOVERY REPORT

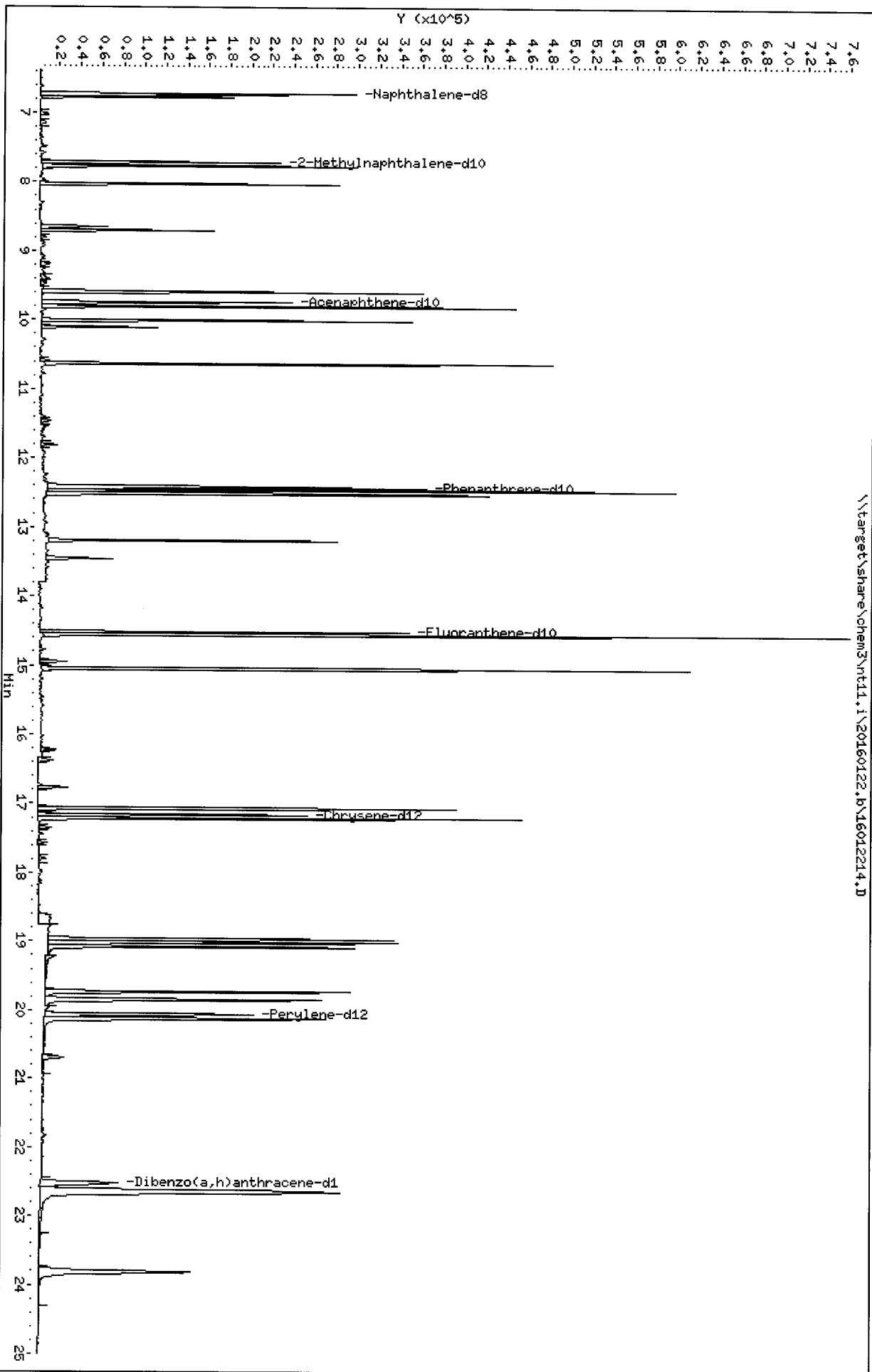
Client Name: Anchor
 Sample Matrix: SOLID
 Lab Smp Id: ATSOBMSD
 Level: LOW
 Data Type: MS DATA
 SpikeList File: PEMDTISS.spk
 Sublist File: PEMD.sub
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-136

Client SDG: ATSO
 Fraction: SV
 Client Smp ID: PG-PJ-1-MUS-COC MSD
 Operator: JW
 SampleType: MS
 Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
5 Naphthalene	15000	5810	38.75	30-160
7 2-Methylnaphthalen	15000	6480	43.21	30-160
10 Acenaphthylene	15000	7610	50.71	30-160
12 Acenaphthene	15000	7380	49.22	30-160
15 Fluorene	15000	8620	57.50	30-160
19 Phenanthrene	15000	10900	72.87	30-160
20 Anthracene	15000	9480	63.23	30-160
24 Fluoranthene	15000	13300	88.59	30-160
25 Pyrene	15000	12200	81.24	30-160
28 Benzo (a) anthracene	15000	10100	67.61	30-160
30 Chrysene	15000	9770	65.13	30-160
44 Benzo (b) fluoranthe	15000	9410	62.75	30-160
45 Benzo (k) fluoranthe	15000	8110	54.06	30-160
34 Benzo (a) pyrene	15000	8500	56.69	30-160
37 Indeno (1,2,3-cd) py	15000	9120	60.79	30-160
38 Dibenzo (a,h) anthra	15000	9280	61.87	30-160
39 Benzo (g,h,i) peryle	15000	9000	59.99	30-160
47 Perylene	15000	8160	54.39	30-160
48 Benzo (e) pyrene	15000	8450	56.36	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	15000	5700	38.02	30-160
\$ 23 Fluoranthene-d10	15000	8000	53.36	30-160
\$ 36 Dibenzo (a,h) anthra	15000	8630	57.50	30-160

\\target\share\chems\nt11.i\20160122.b\16012214.D



Lab ID: ATSOBMSD

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 13:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012215.D
 Lab Smp Id: ATSOC Client Smp ID: PG-WS-1-MUS-COC-160
 Inj Date : 22-JAN-2016 14:29 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOC
 Misc Info : 16-137
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.040	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

JW
1/25/16

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN	FINAL	
			MASS	RT	EXP RT	REL RT	RESPONSE	(ng/mL)	(ug/kg)
* 4 Naphthalene-d8	136		6.734	6.744	(1.000)	376882	200.000		
5 Naphthalene	128		6.765	6.776	(1.005)	24232	11.1312	554	
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.145)	197150	140.932	7020	
7 2-Methylnaphthalene	142		Compound Not Detected.						
8 1-Methylnaphthalene	142		Compound Not Detected.						
10 Acenaphthylene	152		Compound Not Detected.						
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	268849	200.000		
12 Acenaphthene	153		9.800	9.811	(1.006)	16670	11.5751	576	
14 Dibenzofuran	168		10.010	10.010	(1.027)	26738	12.3244	614	
15 Fluorene	166		10.630	10.630	(1.091)	28177	17.3175	862	
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	435864	200.000		
19 Phenanthrene	178		12.457	12.468	(1.003)	313052	119.212	5940	
20 Anthracene	178		12.512	12.523	(1.007)	80051	34.0563	1700	
\$ 23 Fluoranthene-d10	212		14.519	14.518	(1.169)	426862	178.083	8870	
24 Fluoranthene	202		14.557	14.557	(1.172)	526498	199.697	9950	
25 Pyrene	202		15.047	15.057	(0.877)	375475	147.091	7330	
28 Benzo (a) anthracene	228		17.076	17.075	(0.995)	121976	56.7574	2830	
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	322334	200.000		
30 Chrysene	228		17.217	17.217	(1.003)	163116	69.1555	3440	
44 Benzo (b) fluoranthene	252		18.967	18.967	(0.945)	107617	49.1747	2450	
45 Benzo (k) fluoranthene	252		19.015	19.015	(0.948)	80884	31.7165	1580	

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)
46 Benzo(j) fluoranthene	252	19.082	19.082	(0.951)	64172	27.6237	1380
34 Benzo(a) pyrene	252	19.851	19.851	(0.989)	41009	19.4165	967
* 35 Perylene-d12	264	20.062	20.062	(1.000)	323010	200.000	
\$ 36 Dibenzo(a,h)anthracene-d14	292	22.529	22.529	(1.123)	246405	189.001	9410
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	Compound Not Detected.					
47 Perylene	252	20.130	20.130	(1.003)	28682	13.0985	652
48 Benzo(e)pyrene	252	19.736	19.736	(0.984)	74196	33.5467	1670

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012215.D
 Lab Smp Id: ATS0C
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-137

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-WS-1-MUS-COC
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	376882	14.94
11 Acenaphthene-d10	239179	119590	478358	268849	12.40
18 Phenanthrene-d10	372253	186127	744506	435864	17.09
29 Chrysene-d12	294711	147356	589422	322334	9.37
35 Perylene-d12	260595	130298	521190	323010	23.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.73	-0.16
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC
 Sample Matrix: SOLID
 Lab Smp Id: ATS0C
 Level: LOW
 Data Type: MS DATA
 SpikeList File: waterlcs.spk
 Sublist File: PEMD.sub
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-137

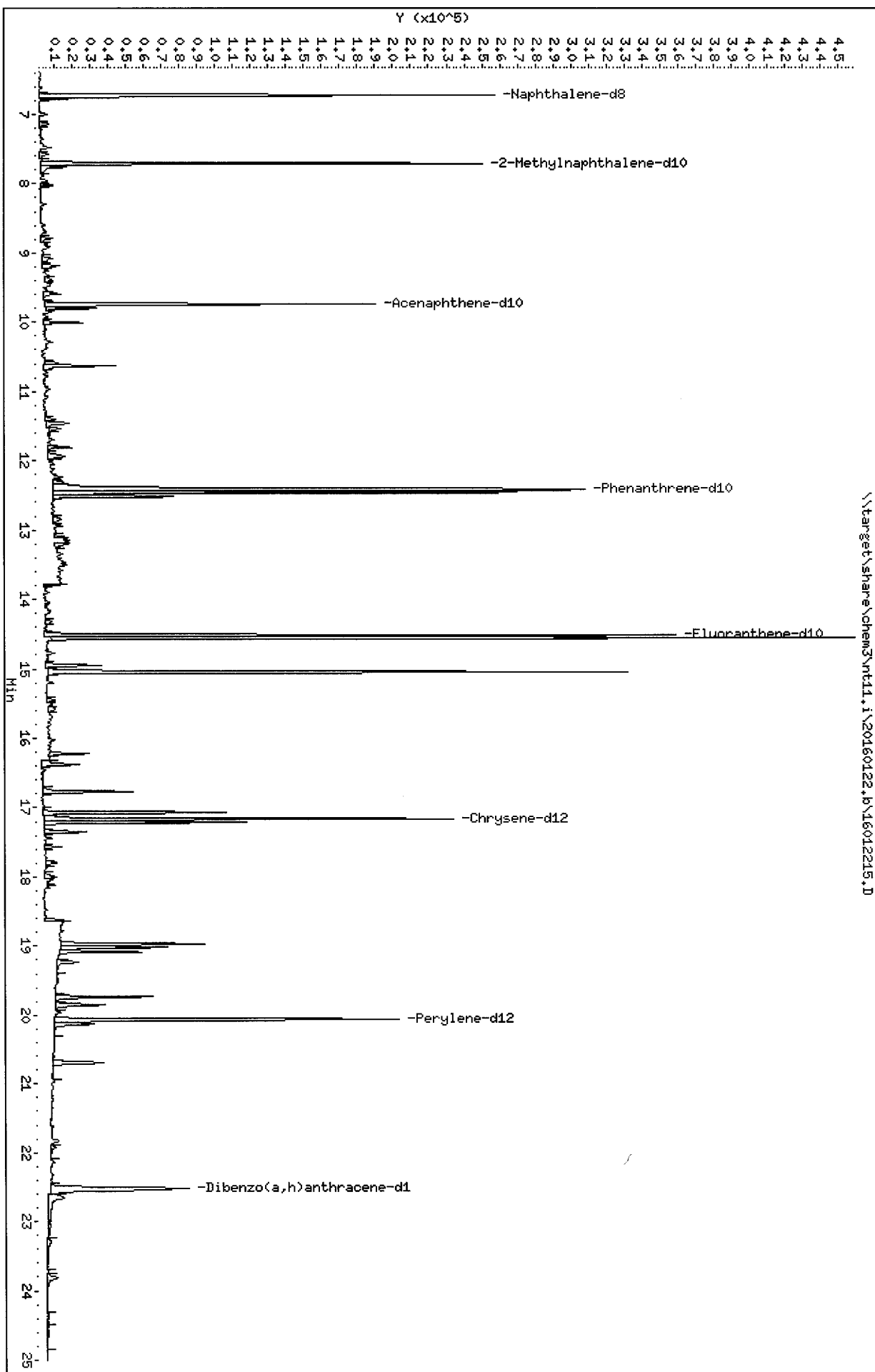
Client SDG: ATS0
 Fraction: SV
 Client Smp ID: PG-WS-1-MUS-COC-160
 Operator: JW
 SampleType: SAMPLE
 Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	14900	7020	46.98	30-160
\$ 23 Fluoranthene-d10	14900	8870	59.36	30-160
\$ 36 Dibenzo(a,h) anthra	14900	9410	63.00	30-160

Data File: \\target\share\chem3\nt11.1\20160122.1\16012215.D
Date : 22-JAN-2016 14:29
Client ID: PG-MS-1-MUS-COC-160
Sample Info: AT50C
Volume Injected (uL): 2.0
Column phase: Rxi-17S11 MS

Instrument: nt11.i
Operator: JM
Column diameter: 0.25

\\target\share\chem3\nt11.1\20160122.1\16012215.D



Data File: \\target\share\chem3\nt11.i\20160122.b\16012215.D

Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

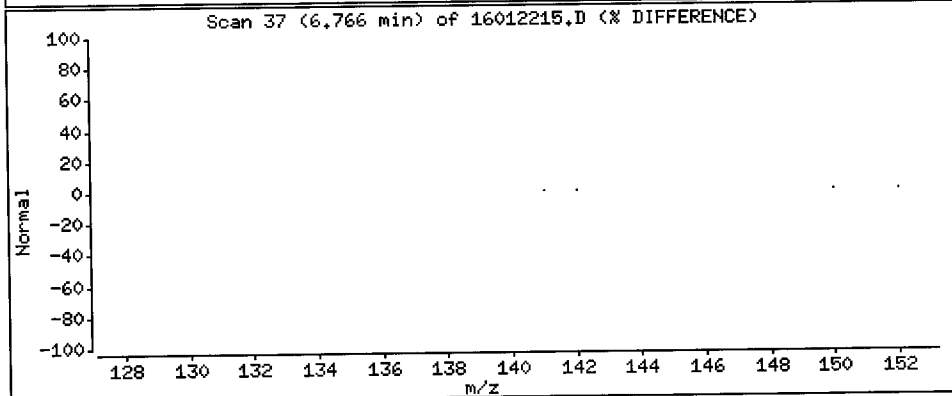
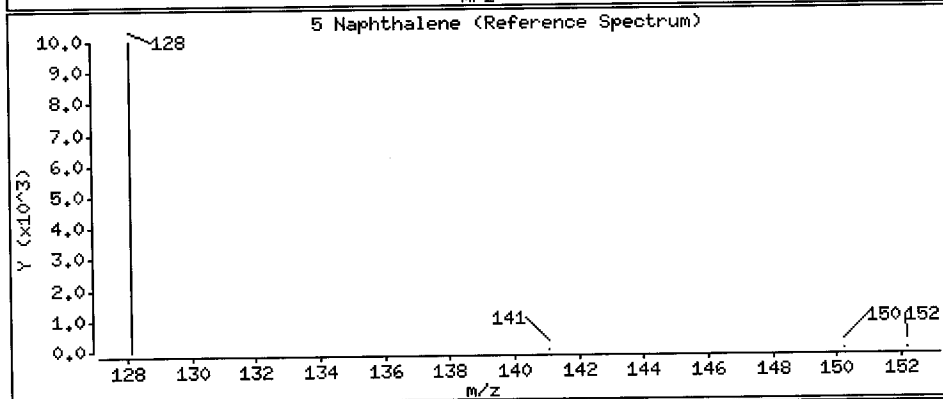
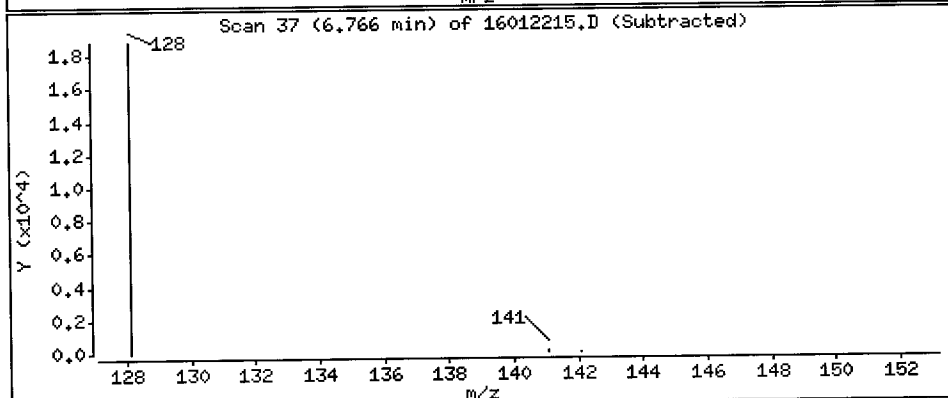
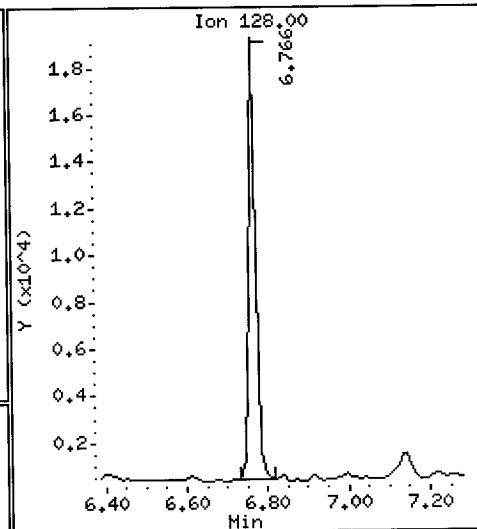
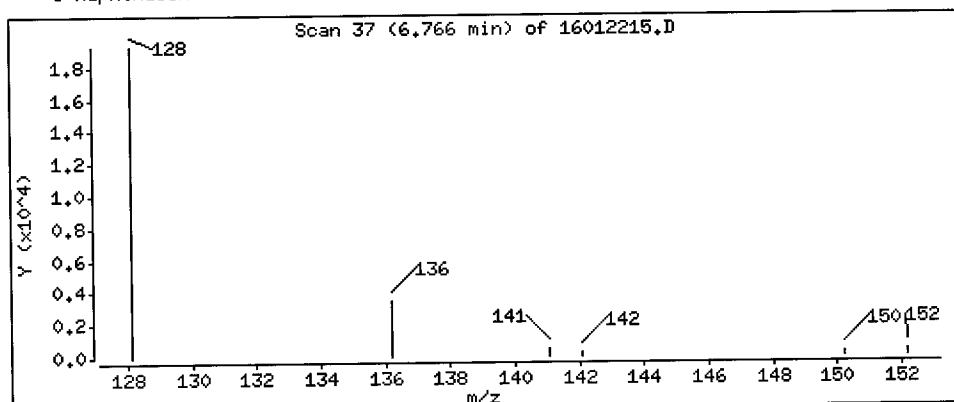
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 554 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOc

Volume Injected (uL): 2.0

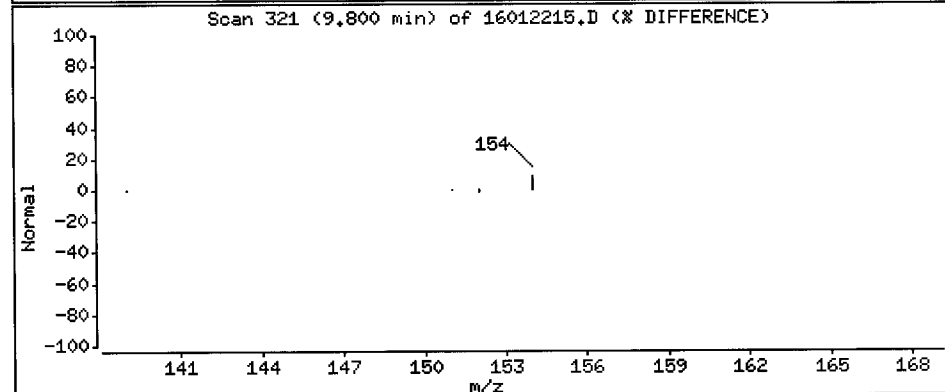
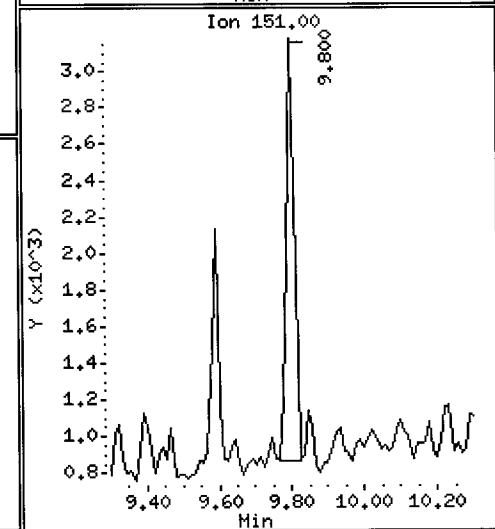
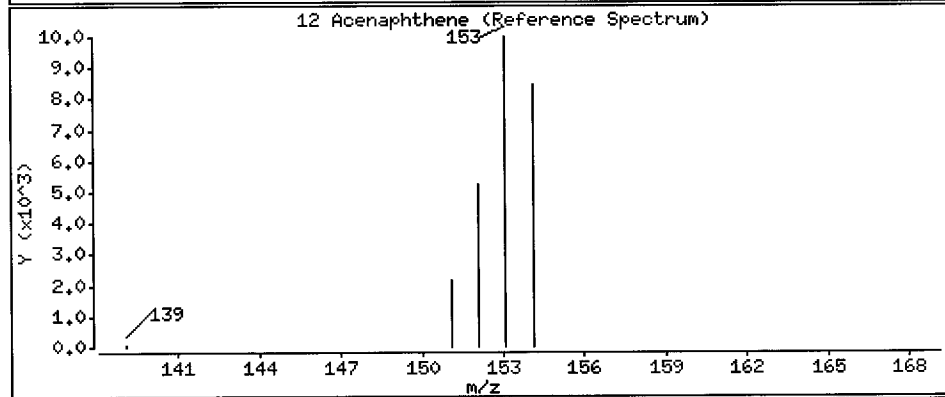
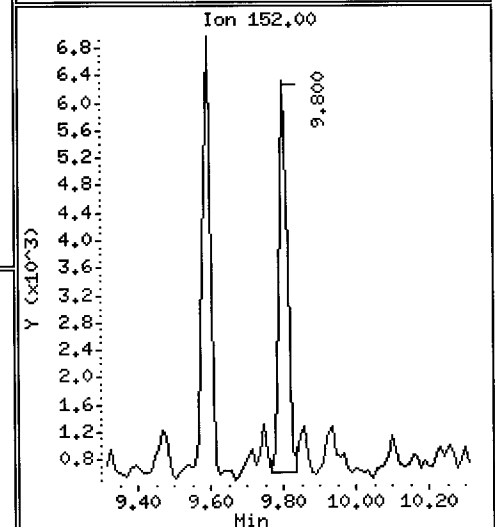
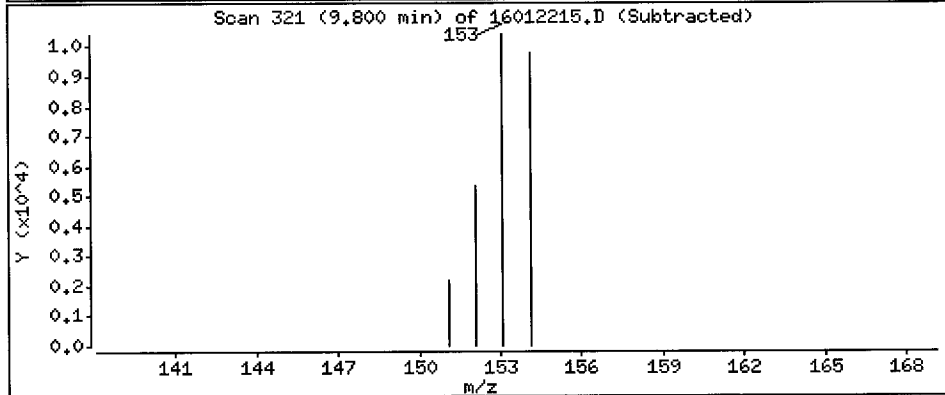
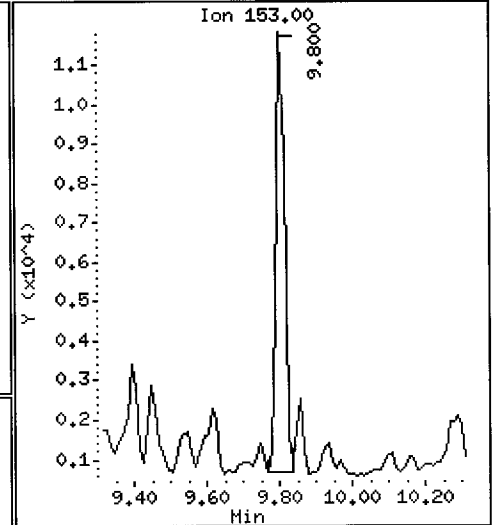
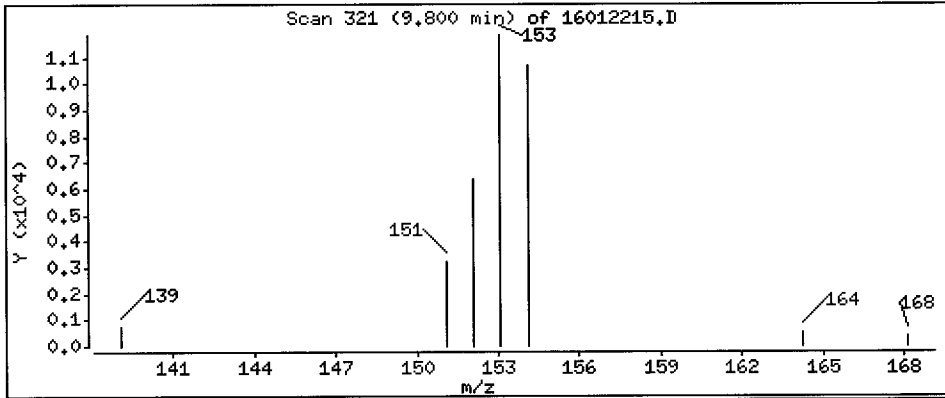
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

12 Acenaphthene

Concentration: 576 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO

Volume Injected (uL): 2.0

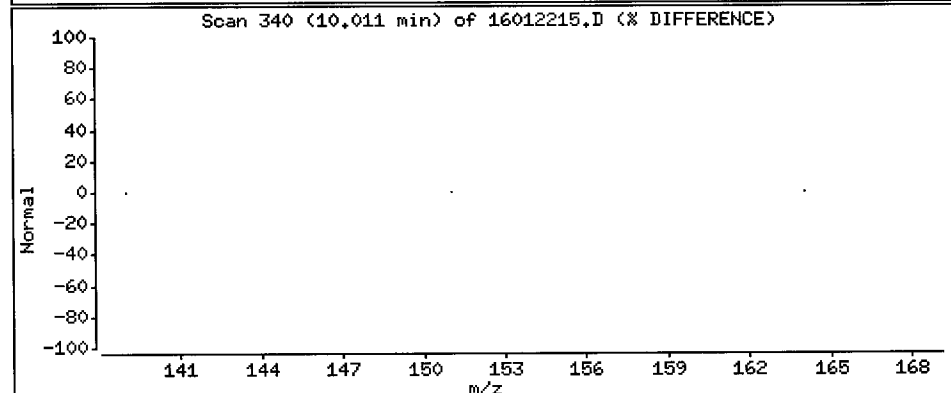
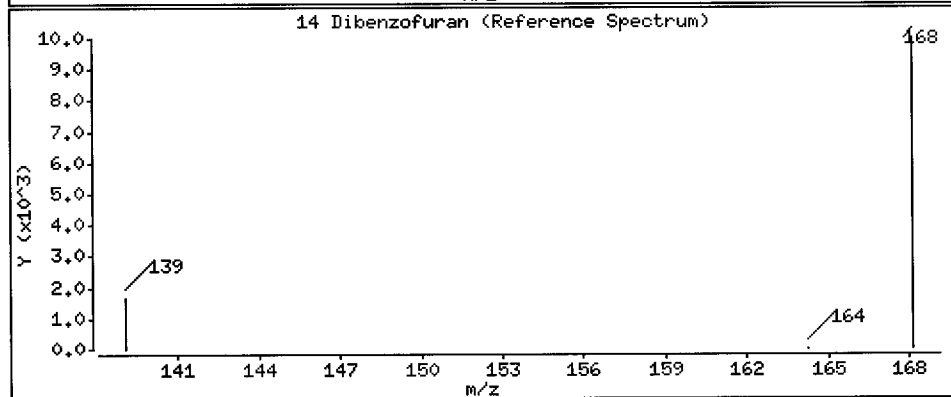
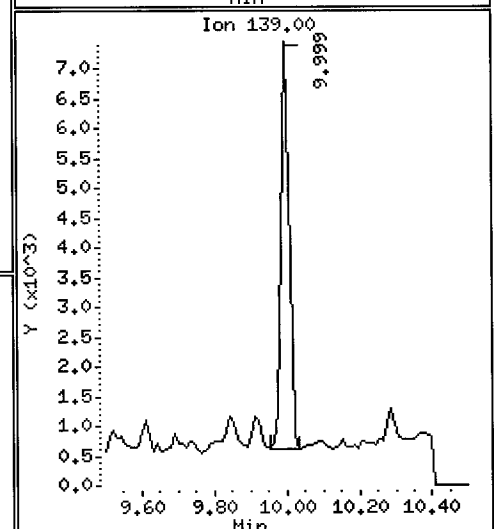
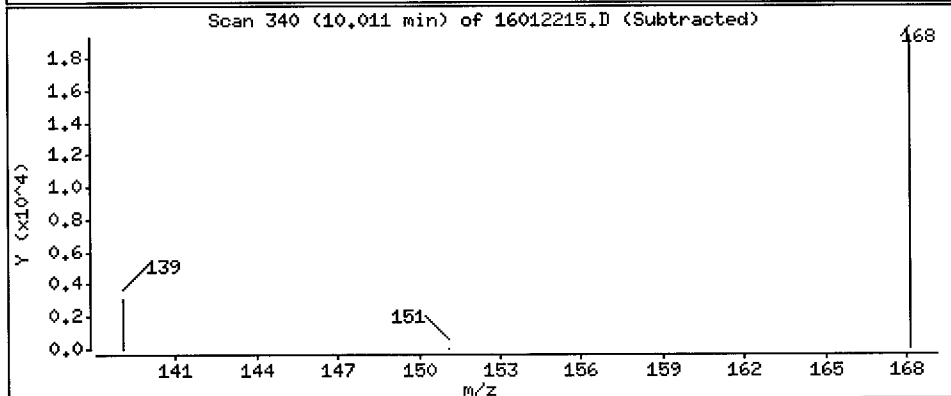
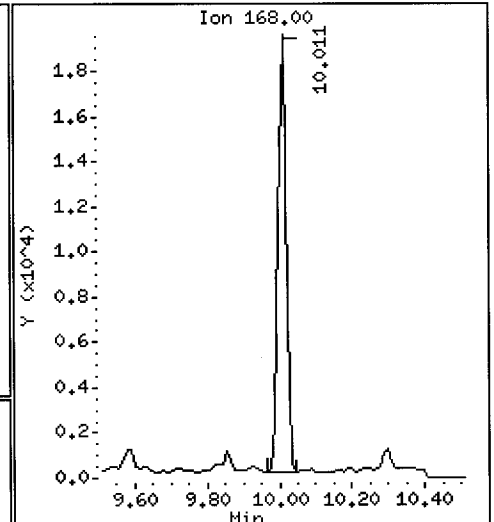
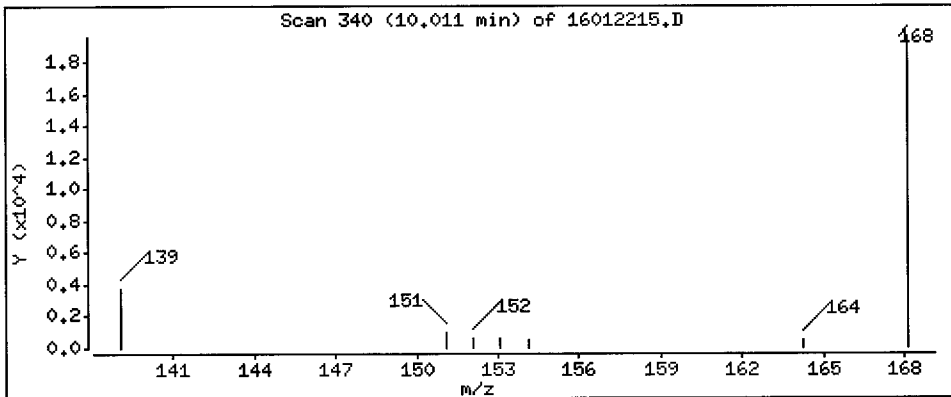
Operator: JW

Column phase: Rxi-17S11 MS

Column diameter: 0.25

14 Dibenzofuran

Concentration: 614 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO

Volume Injected (uL): 2.0

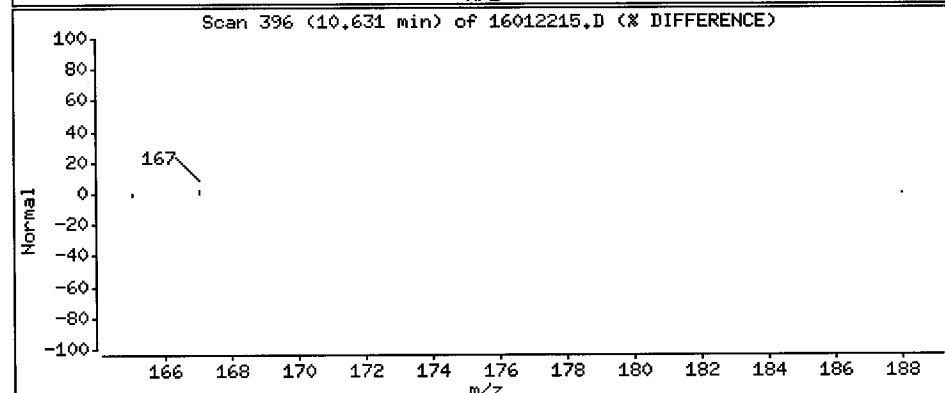
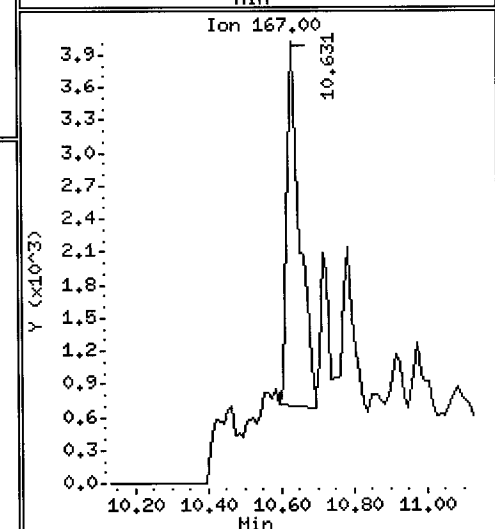
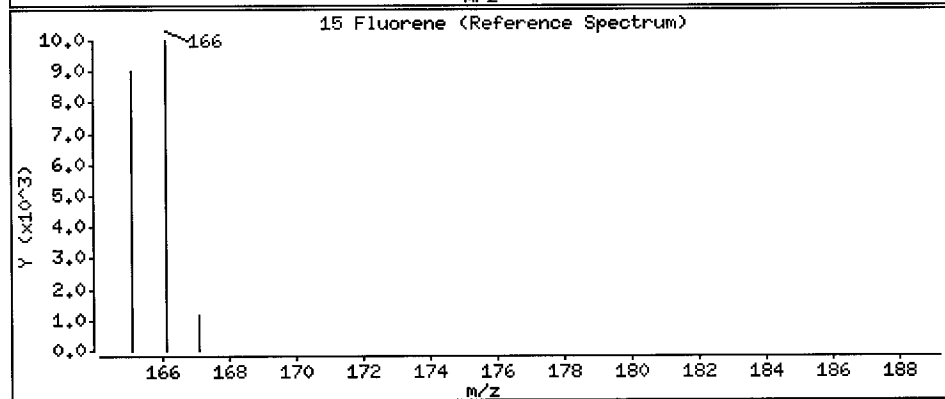
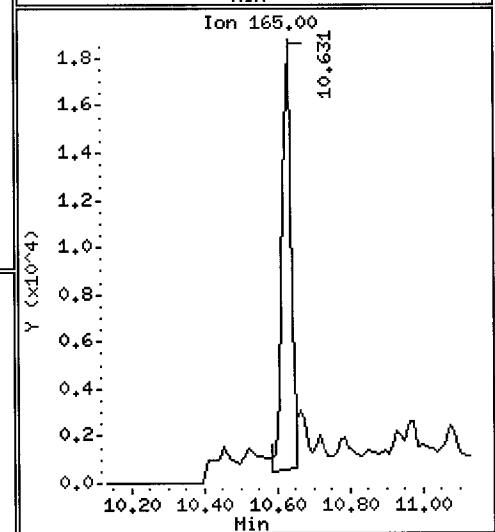
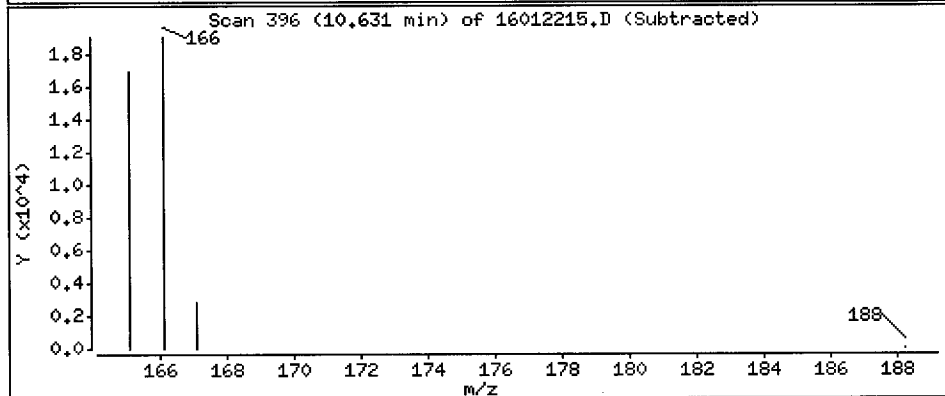
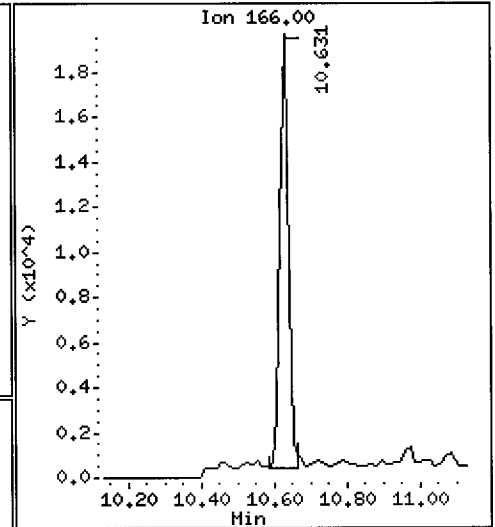
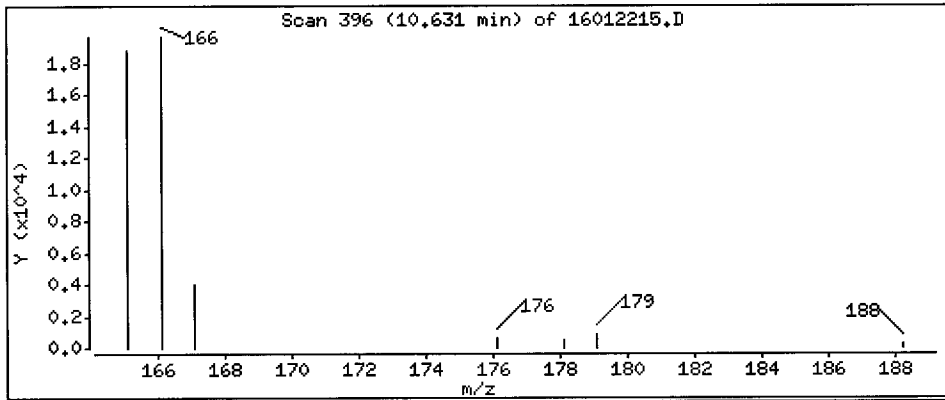
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

15 Fluorene

Concentration: 862 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

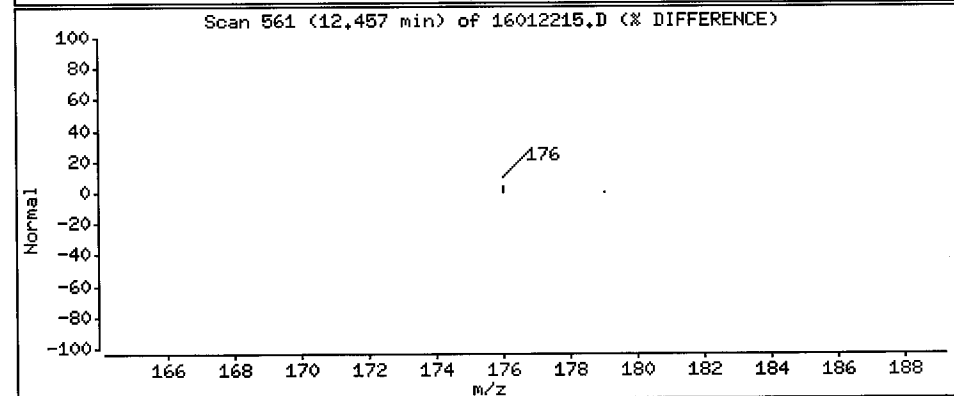
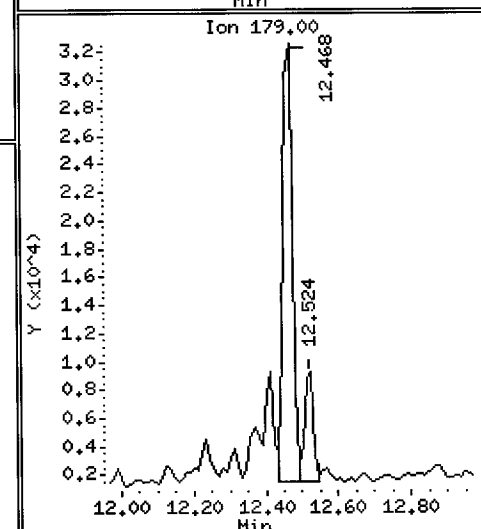
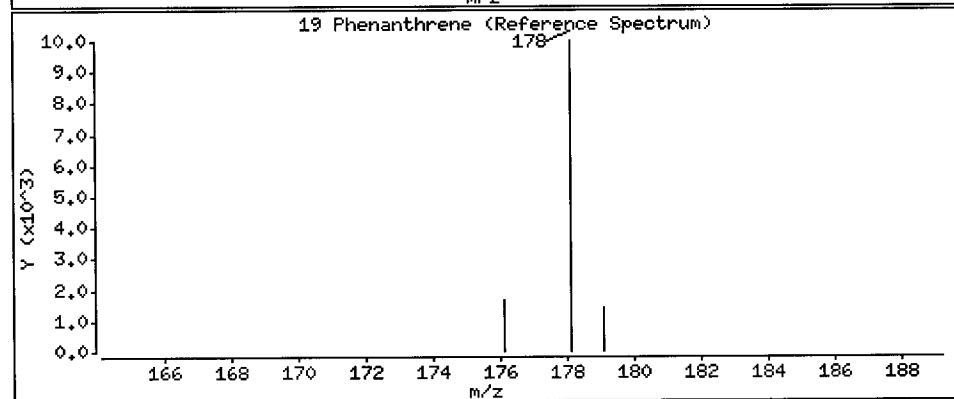
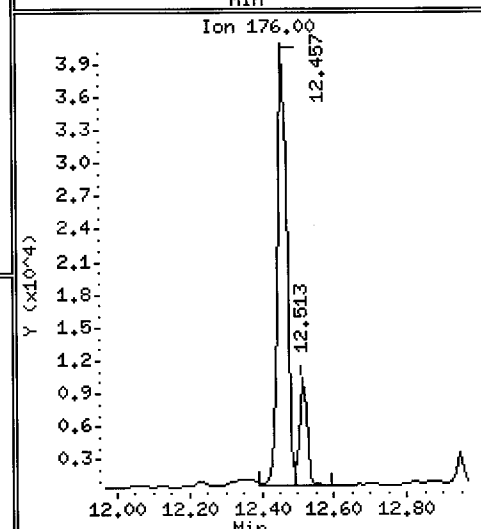
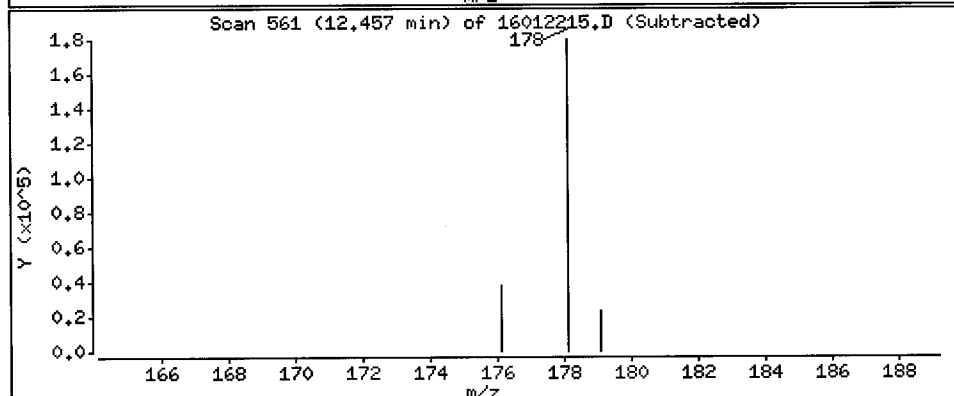
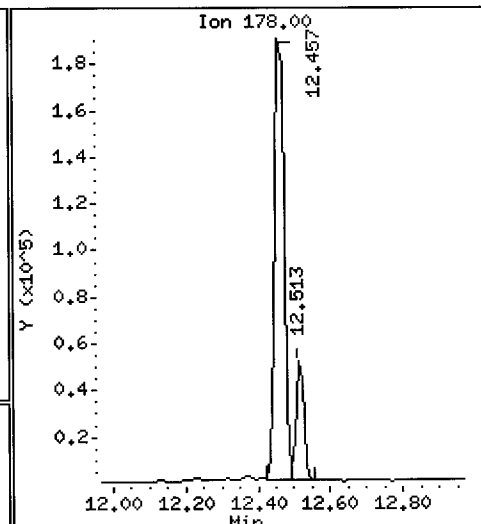
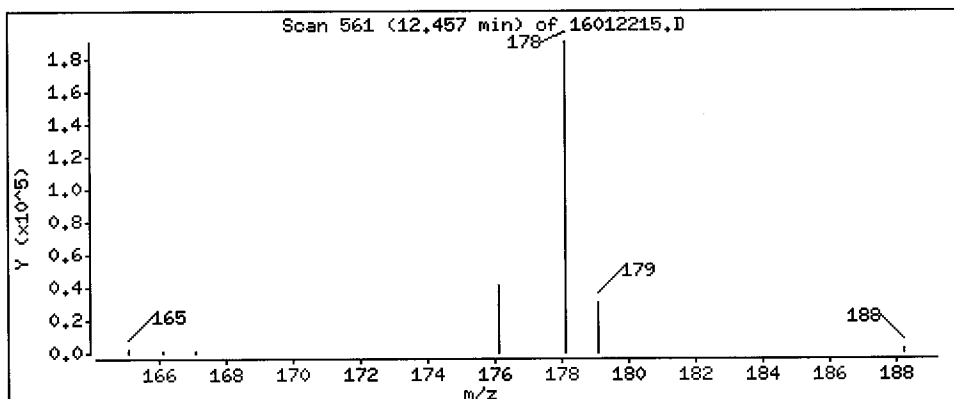
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 5940 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: AT50C

Volume Injected (uL): 2.0

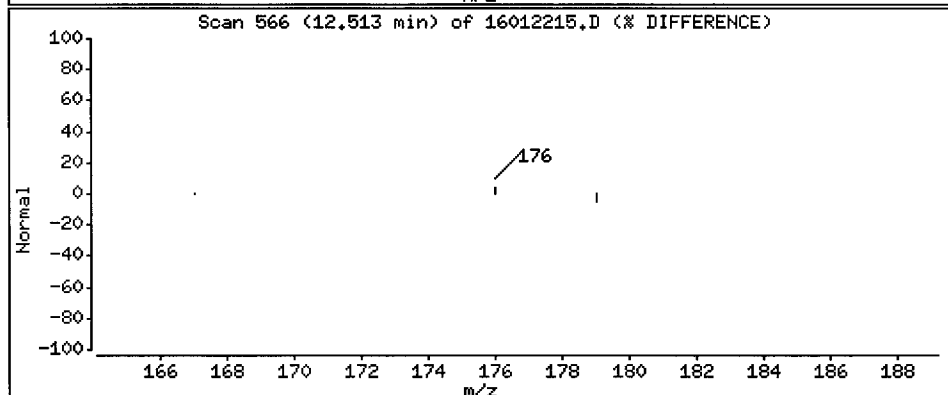
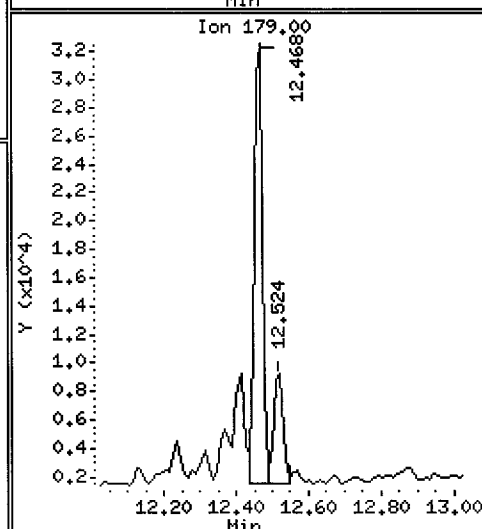
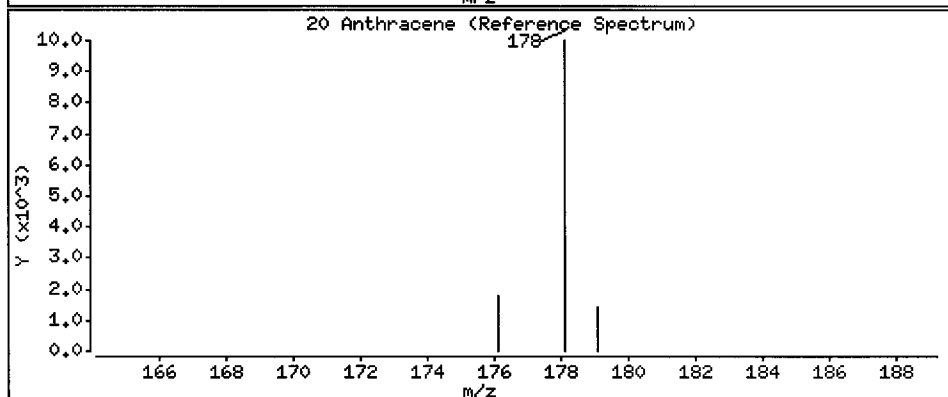
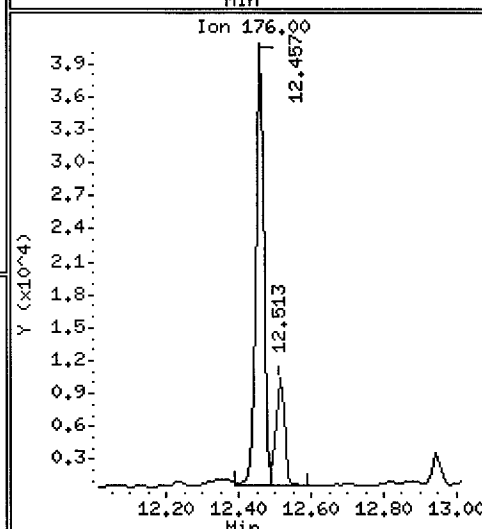
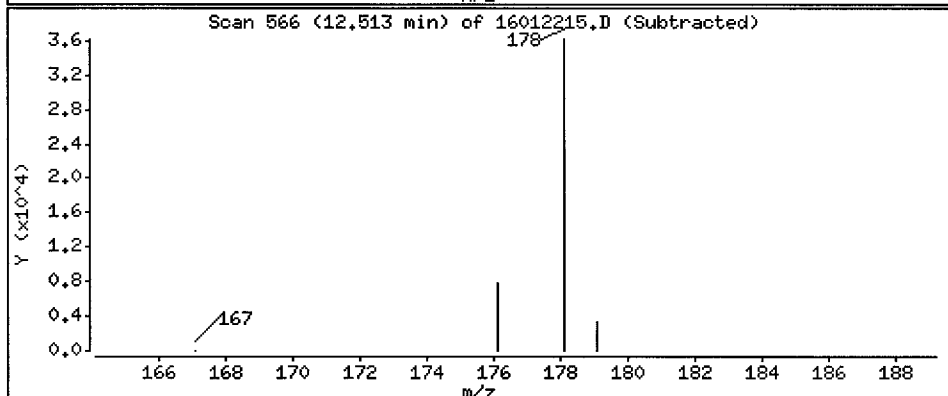
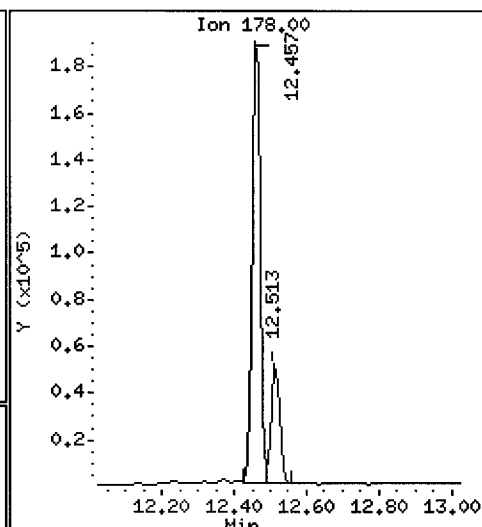
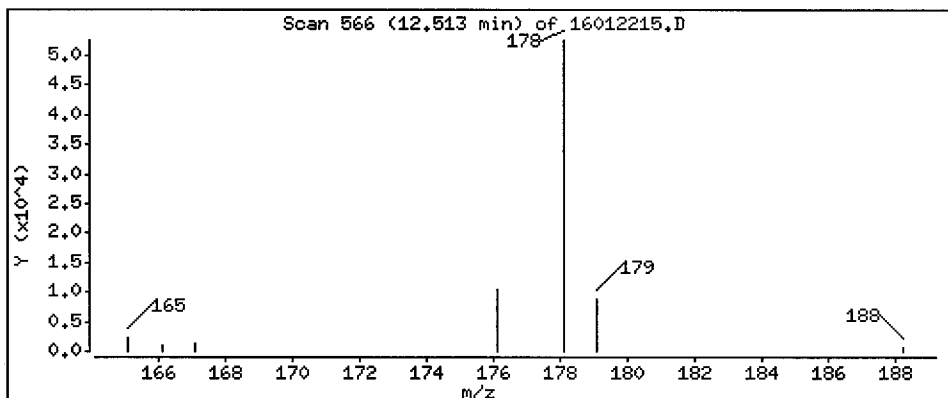
Operator: JW

Column phase: Rxi-17Si11 MS

Column diameter: 0.25

20 Anthracene

Concentration: 1700 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO0

Volume Injected (uL): 2.0

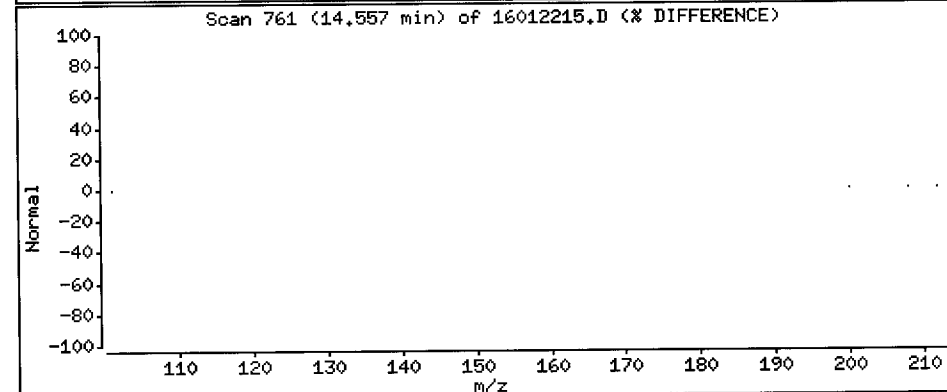
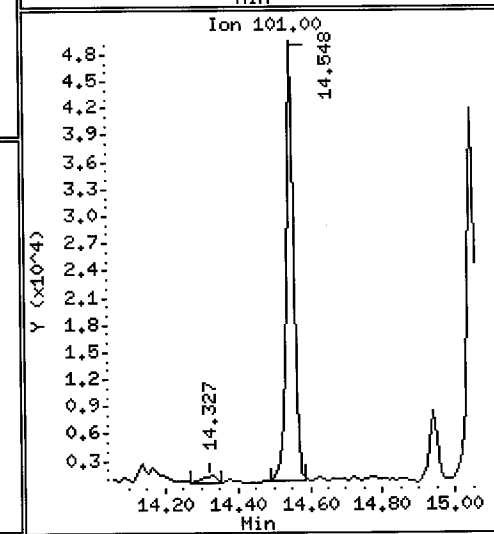
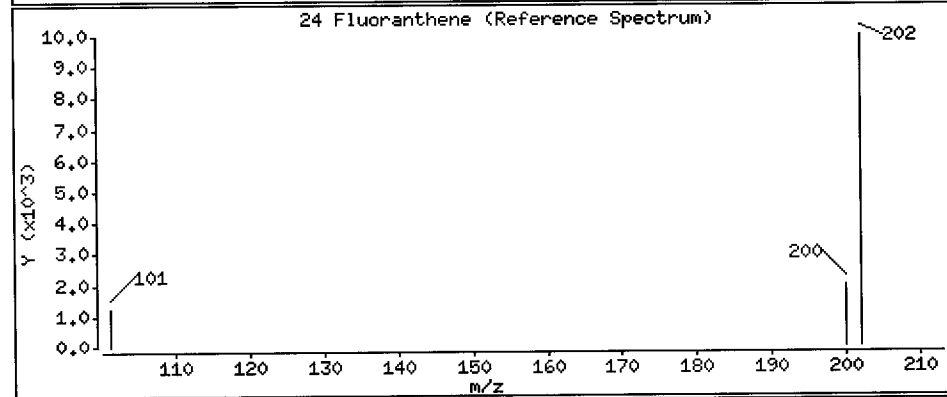
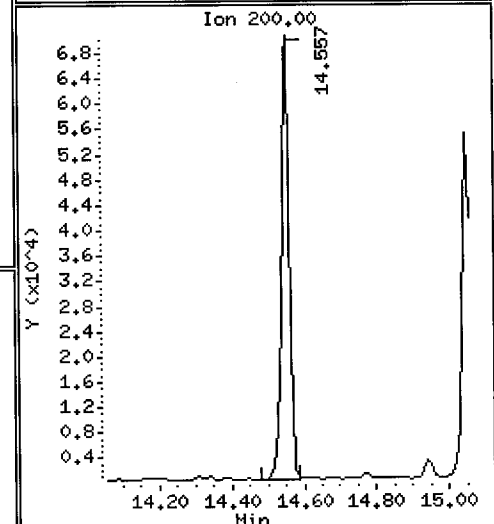
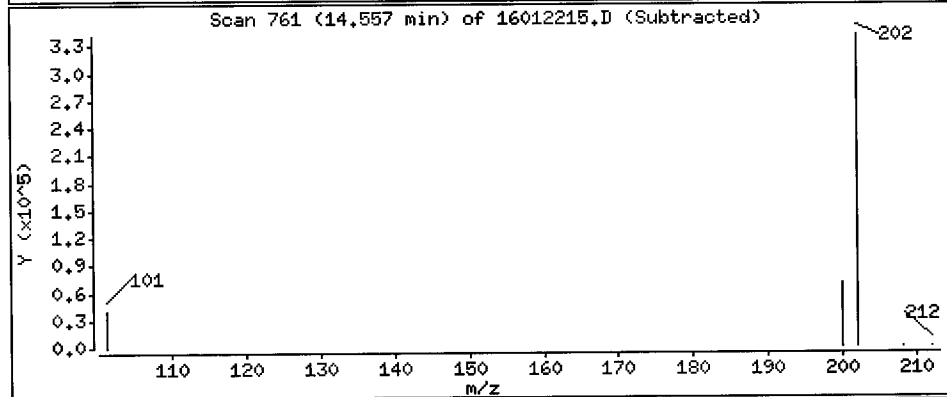
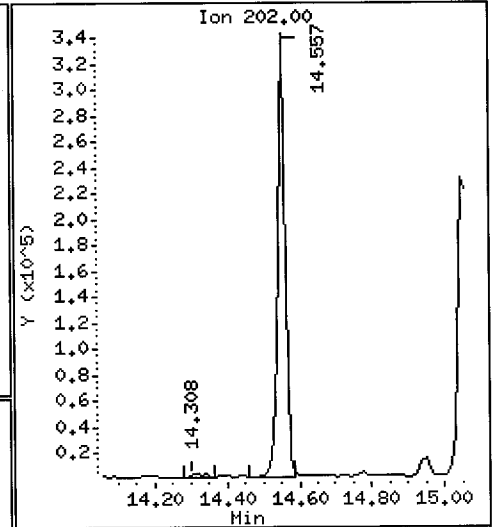
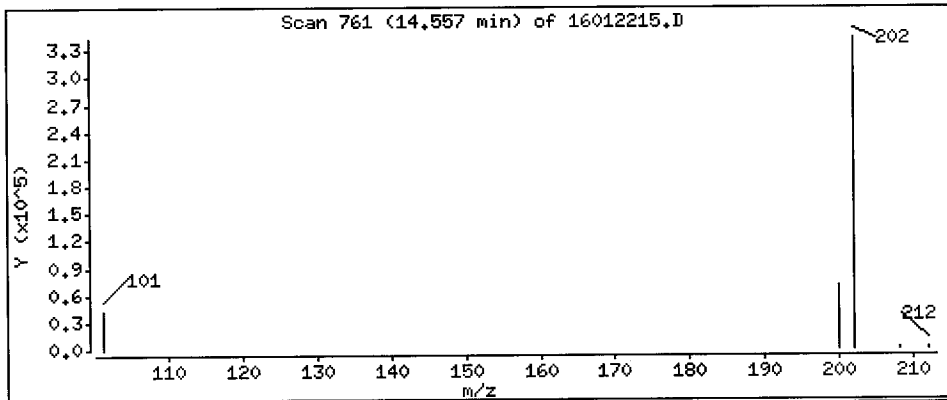
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 9950 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

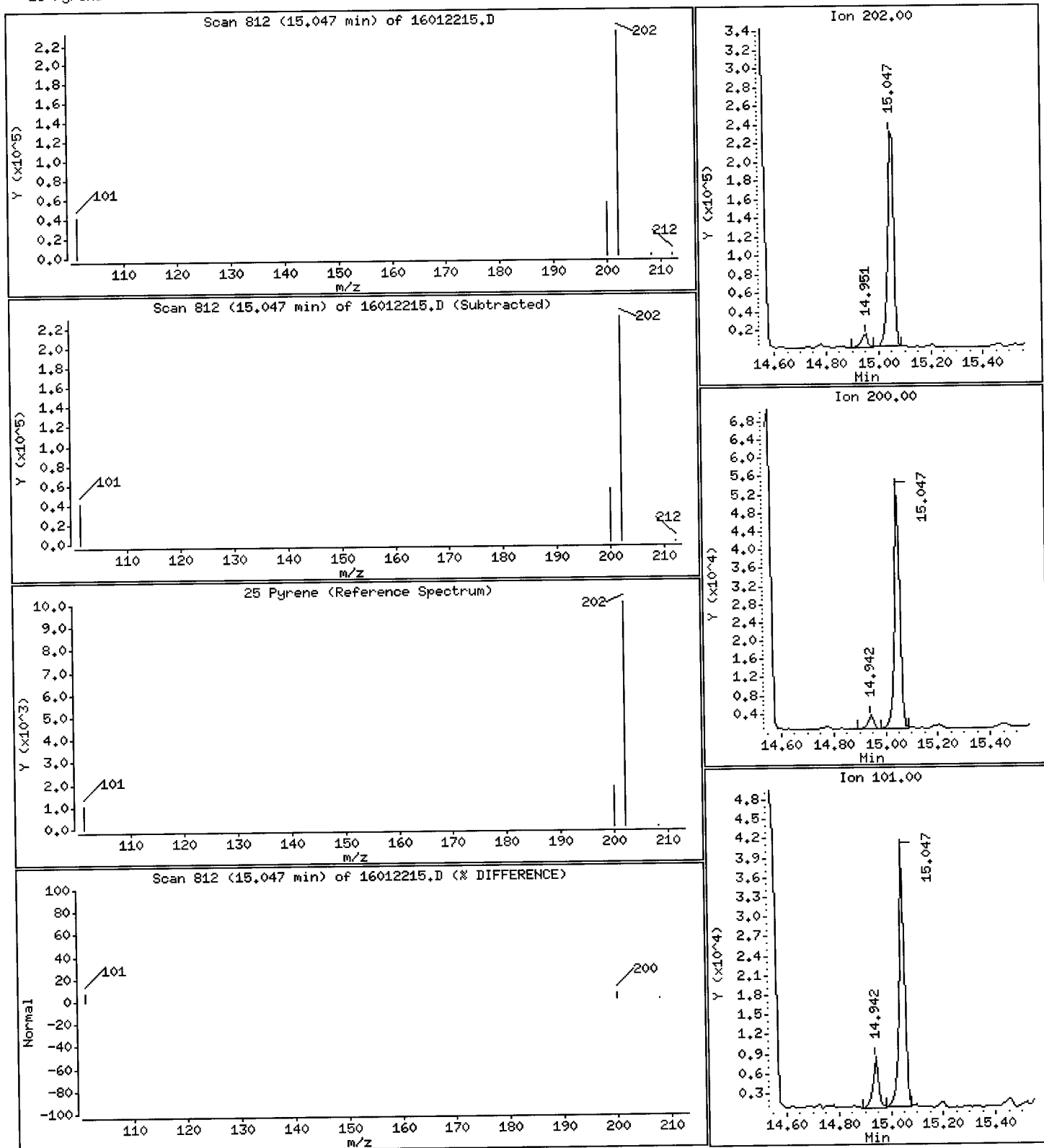
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 7330 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

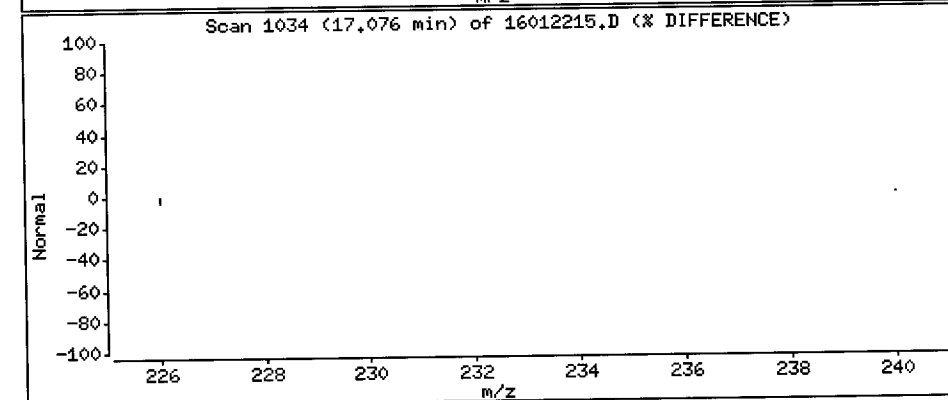
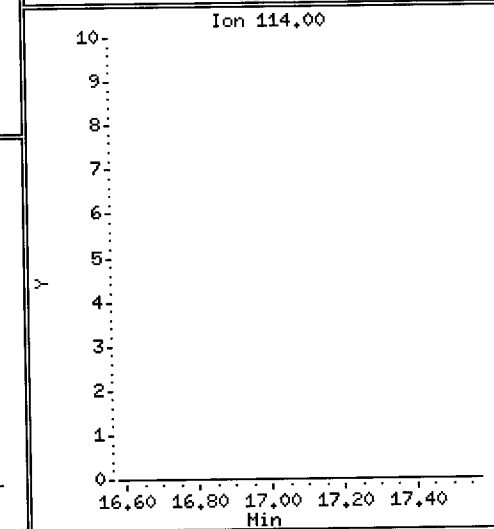
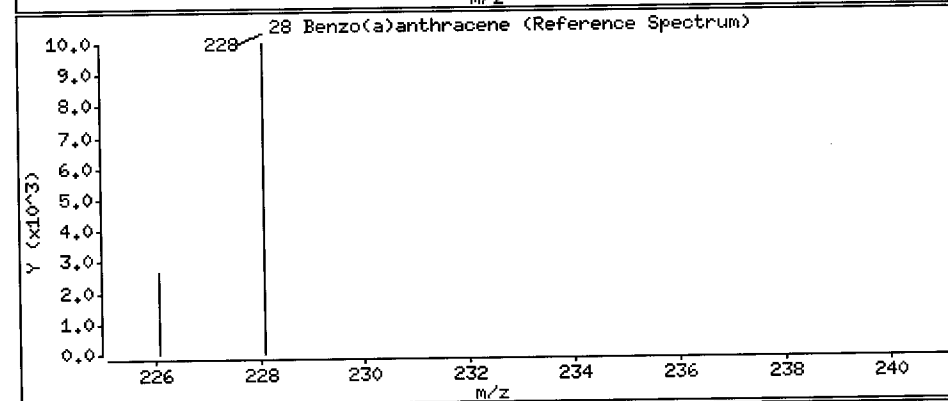
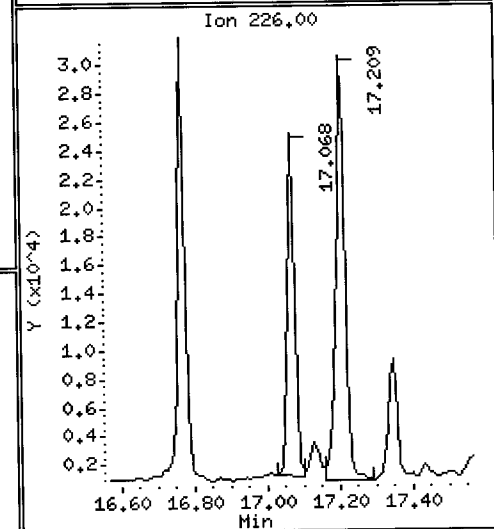
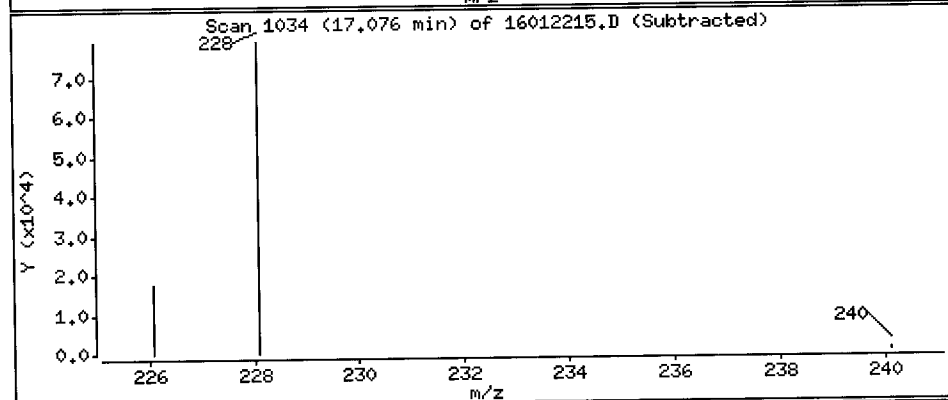
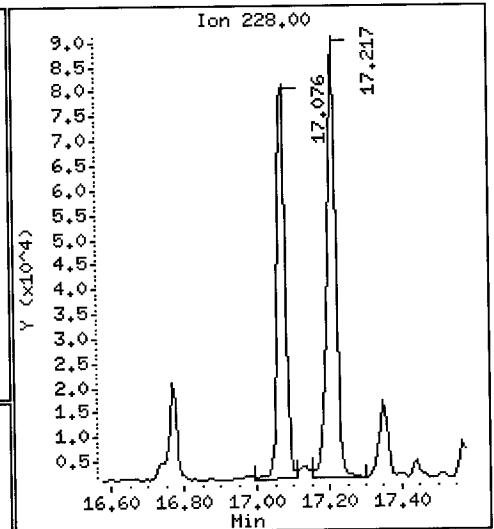
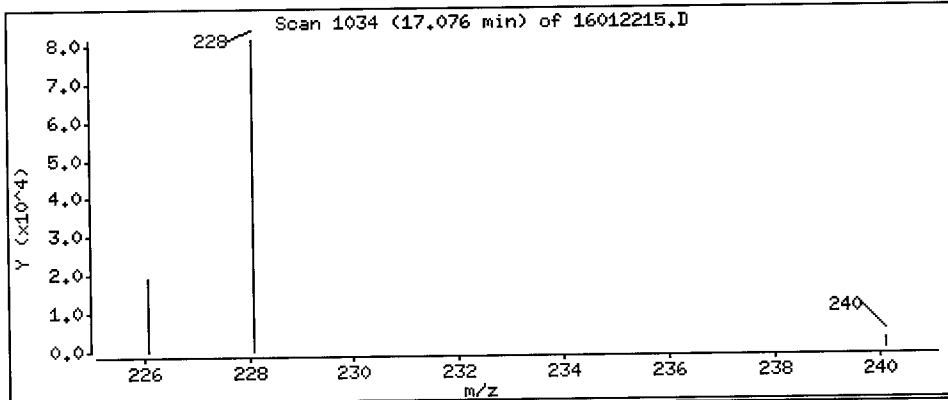
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 2830 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

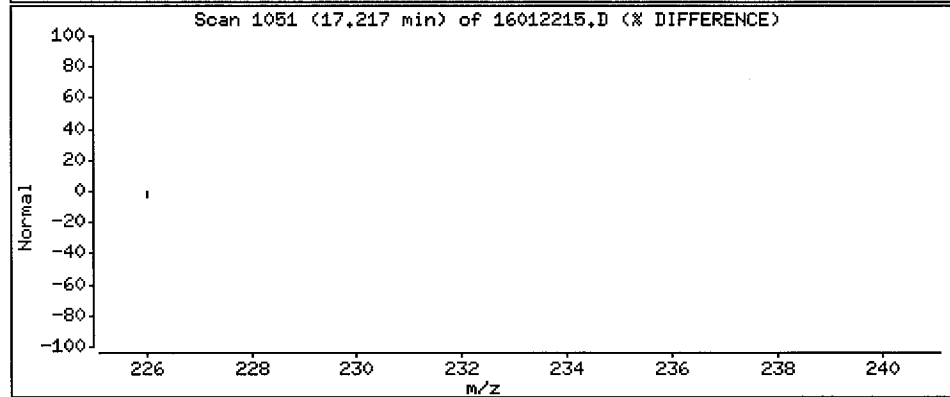
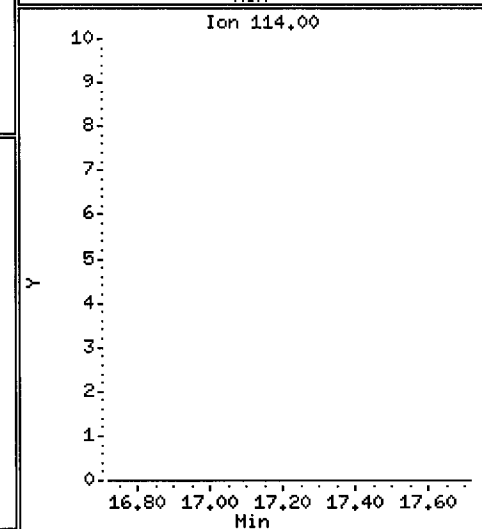
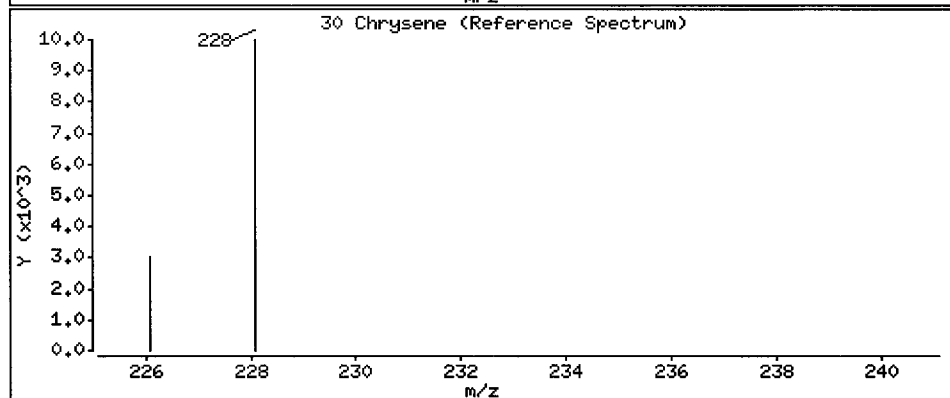
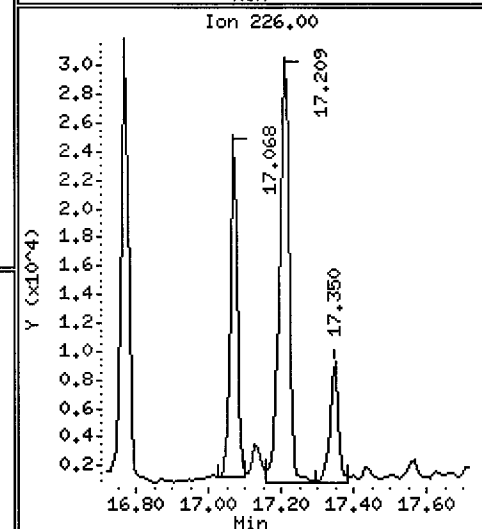
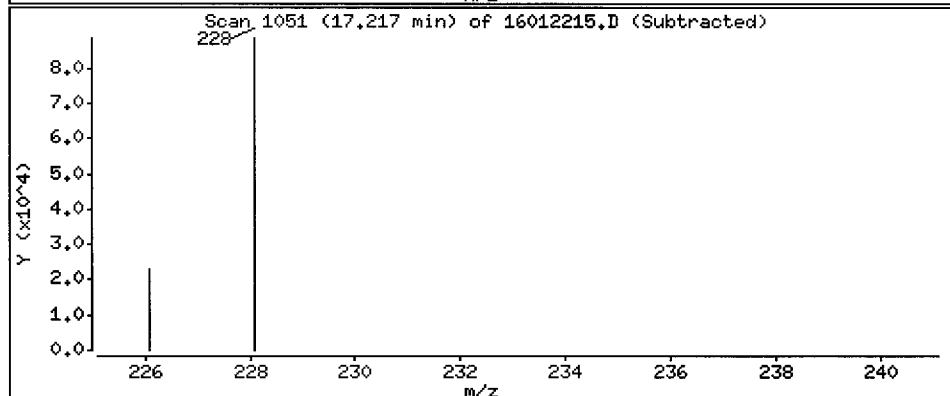
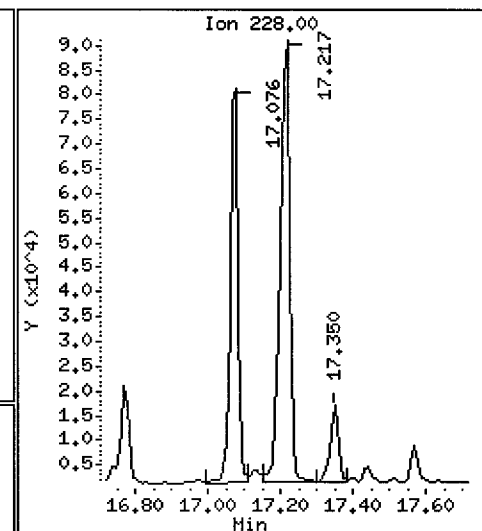
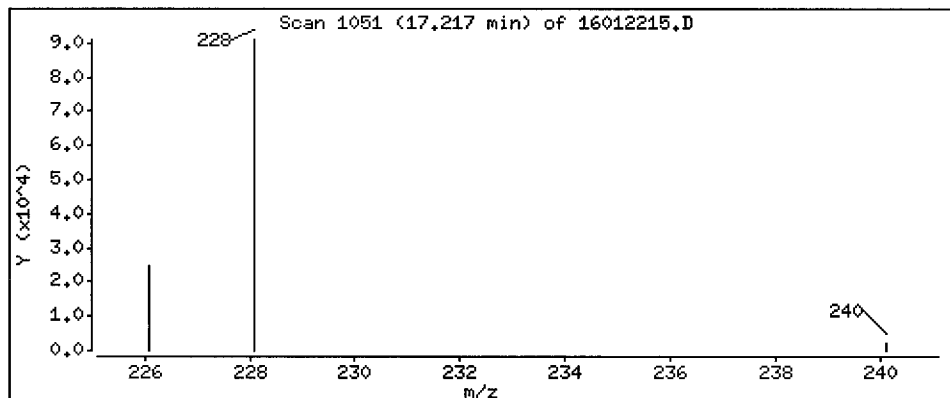
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

30 Chrysene

Concentration: 3440 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

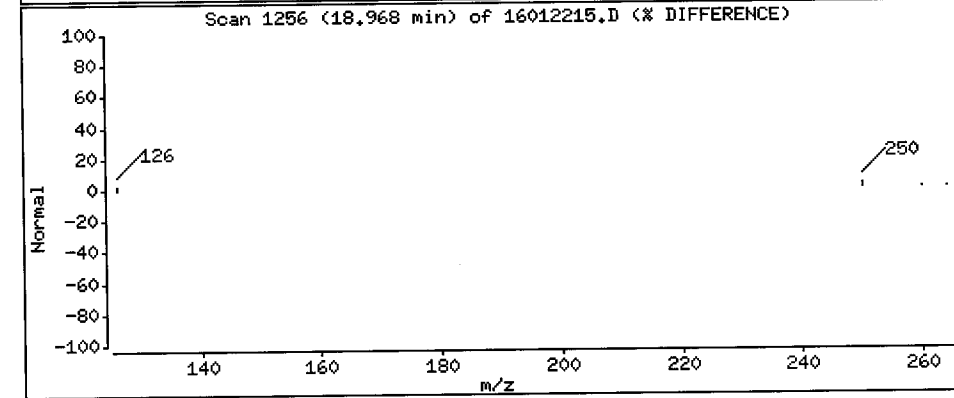
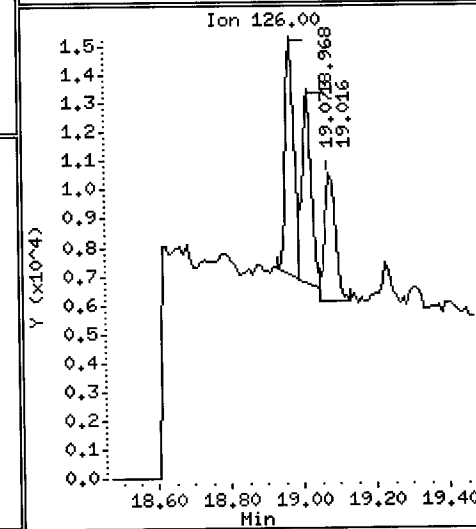
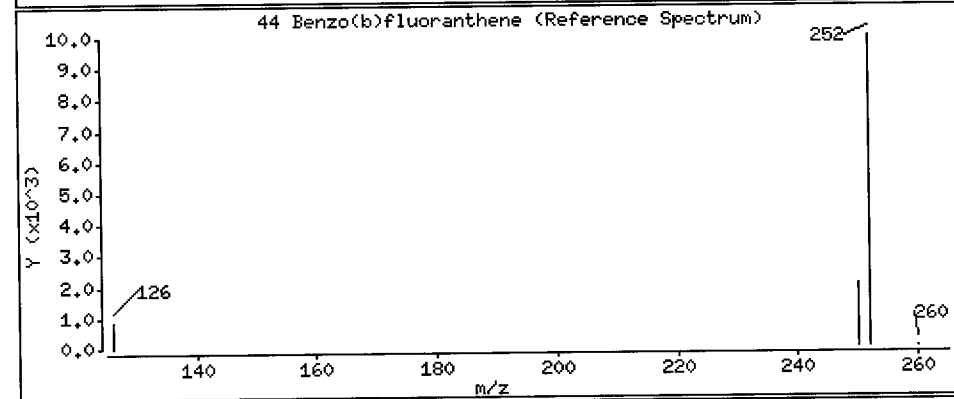
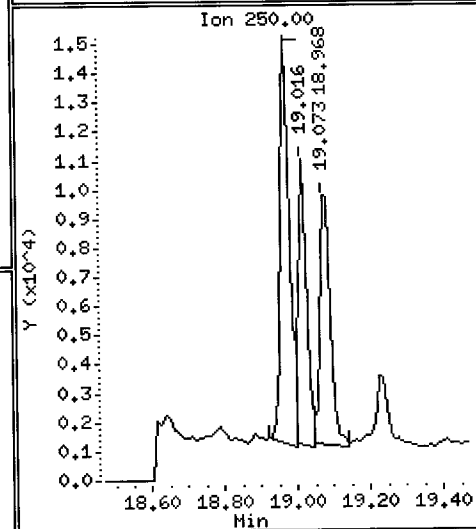
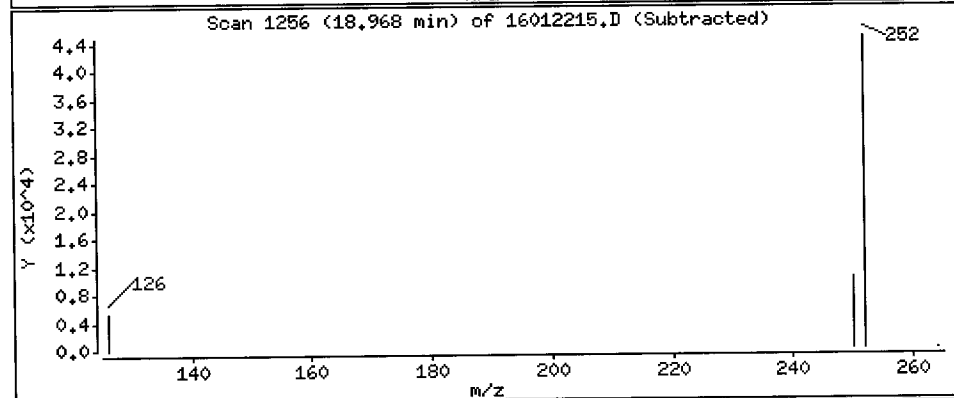
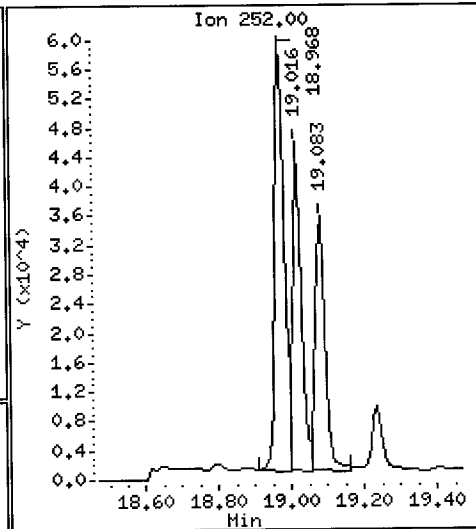
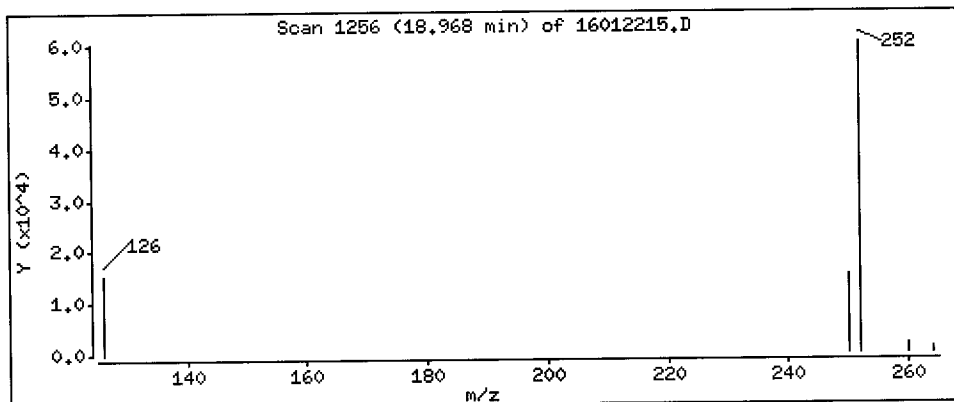
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 2450 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO0

Volume Injected (uL): 2.0

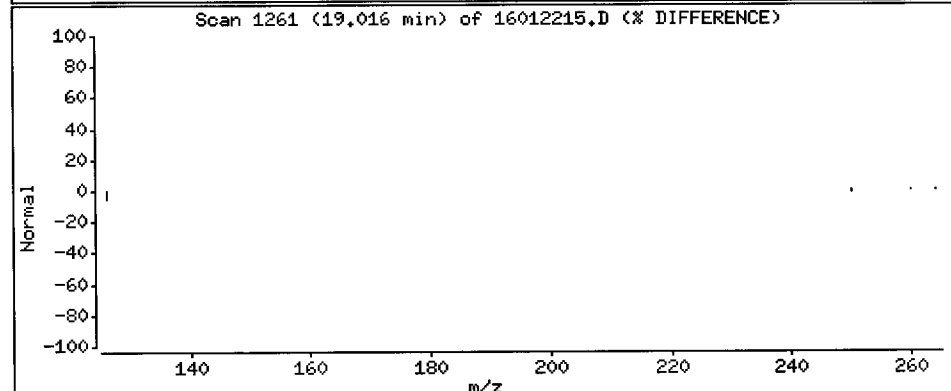
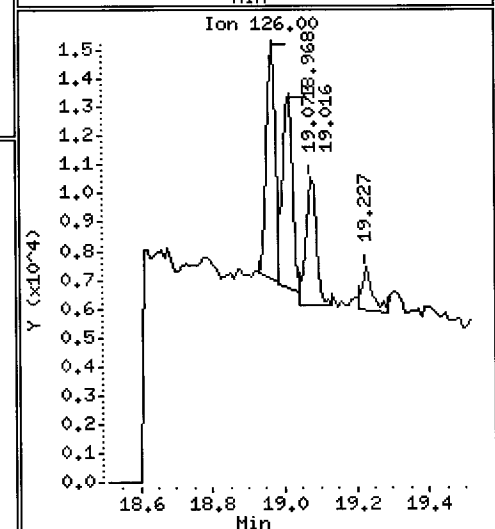
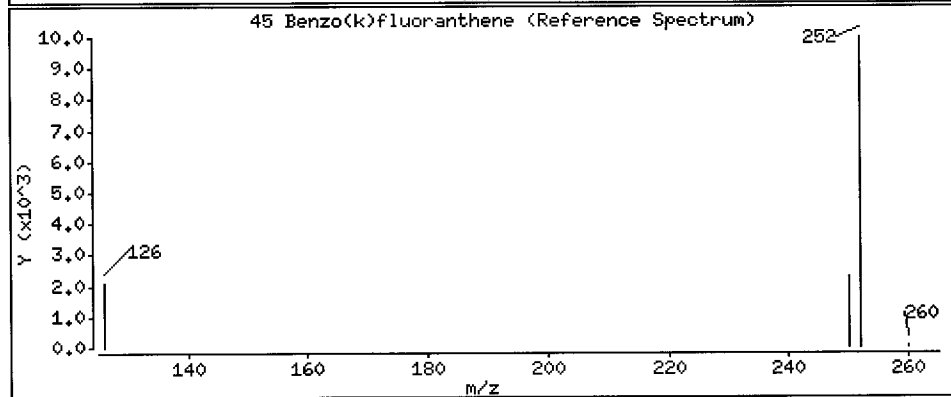
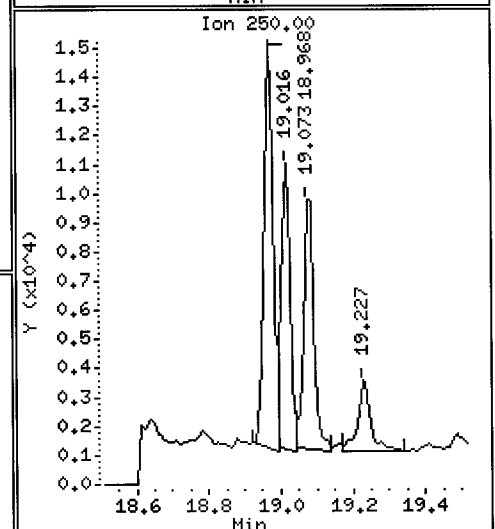
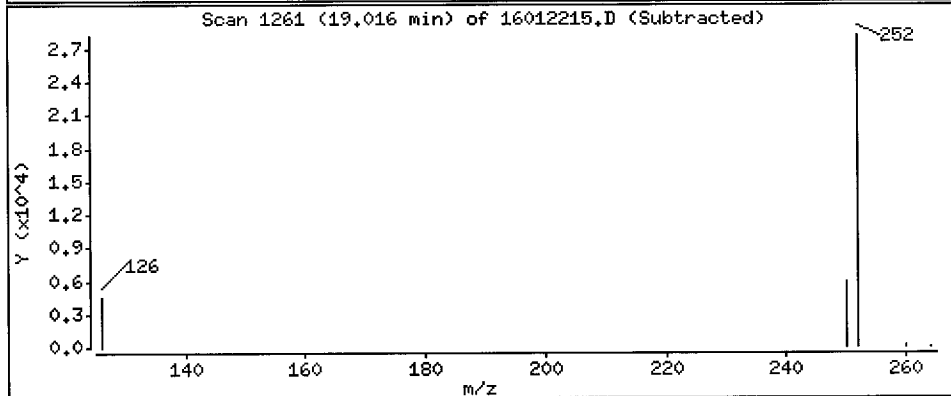
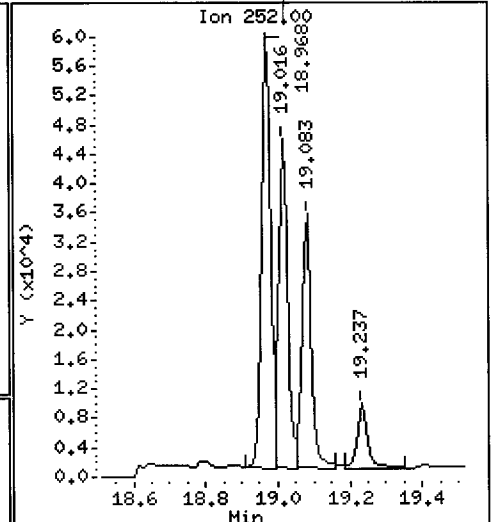
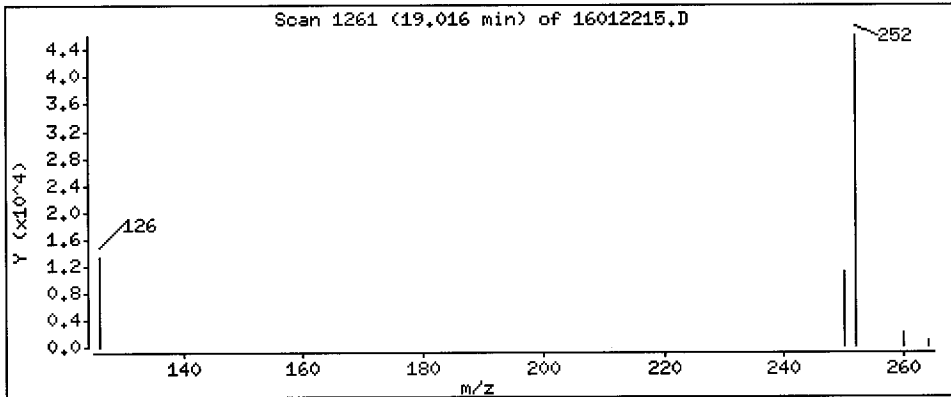
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 1580 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

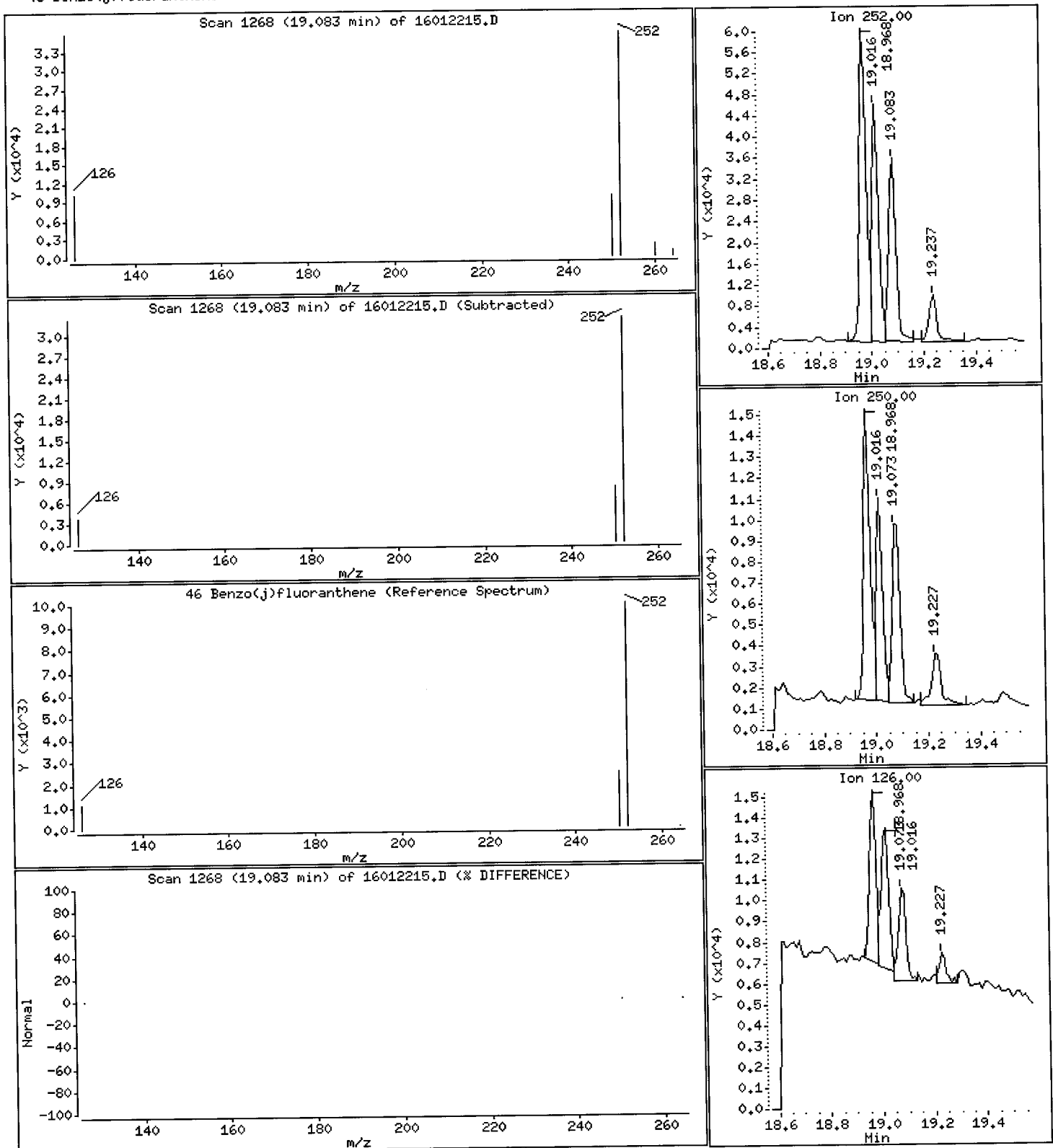
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 1380 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: AT50C

Volume Injected (uL): 2.0

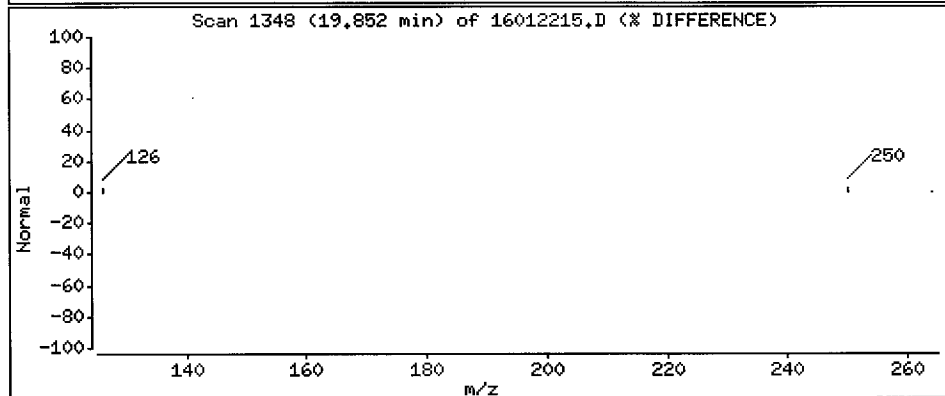
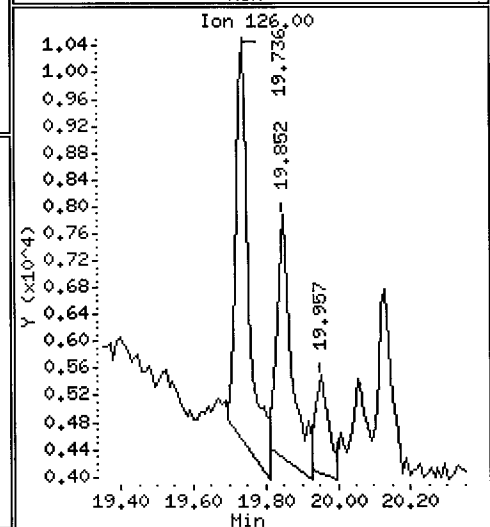
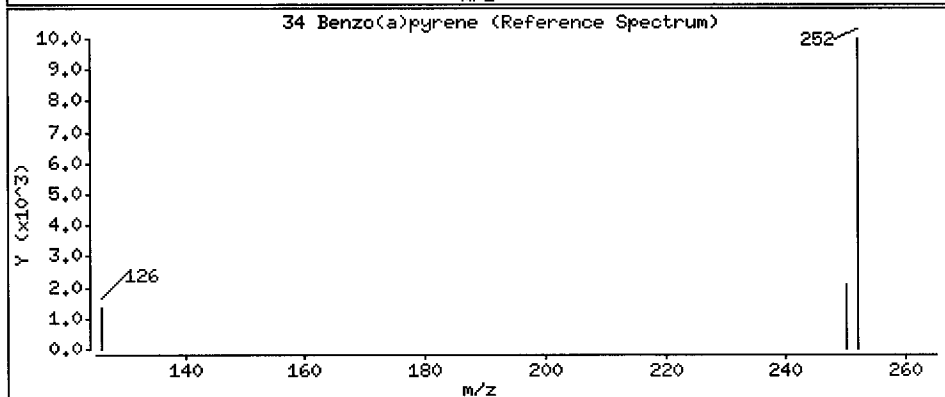
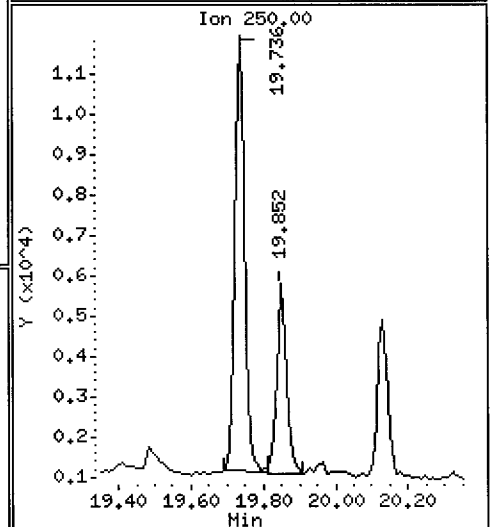
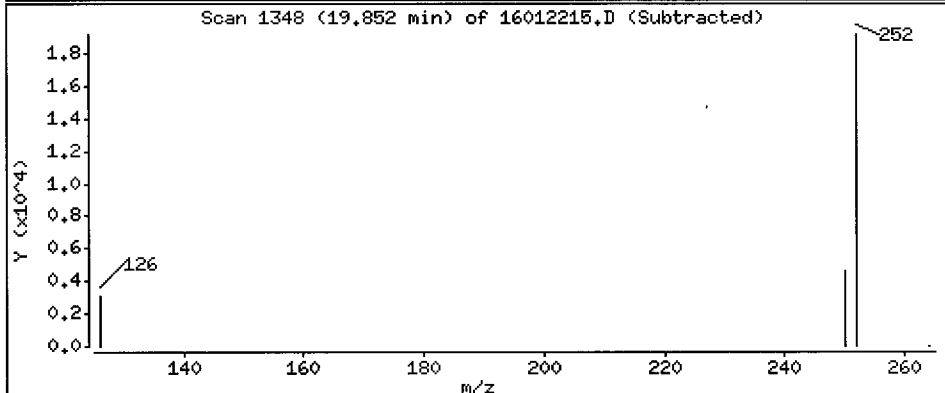
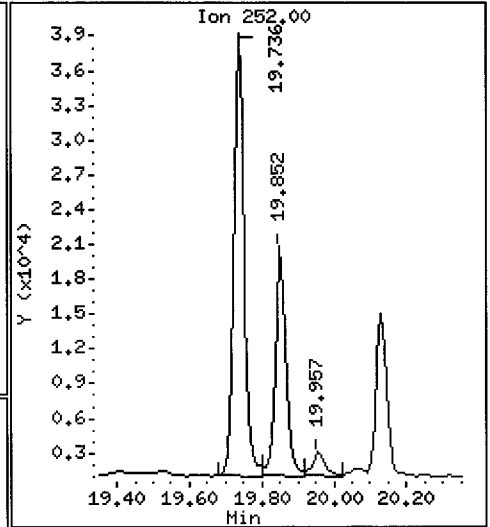
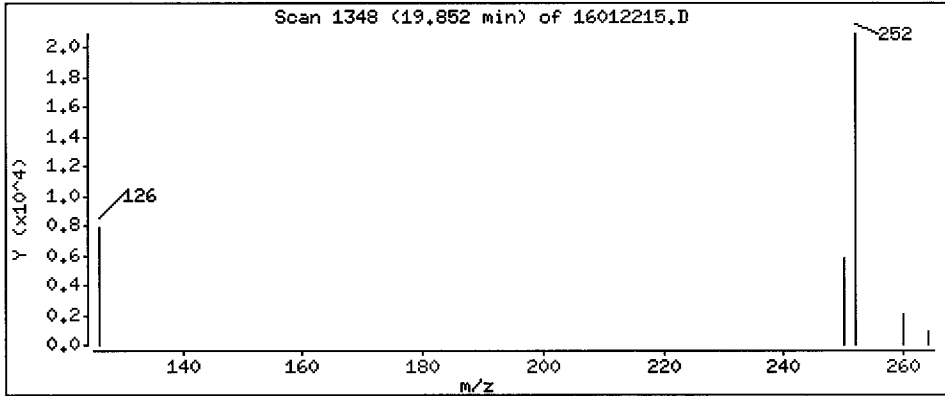
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 967 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-MS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSOC

Volume Injected (uL): 2.0

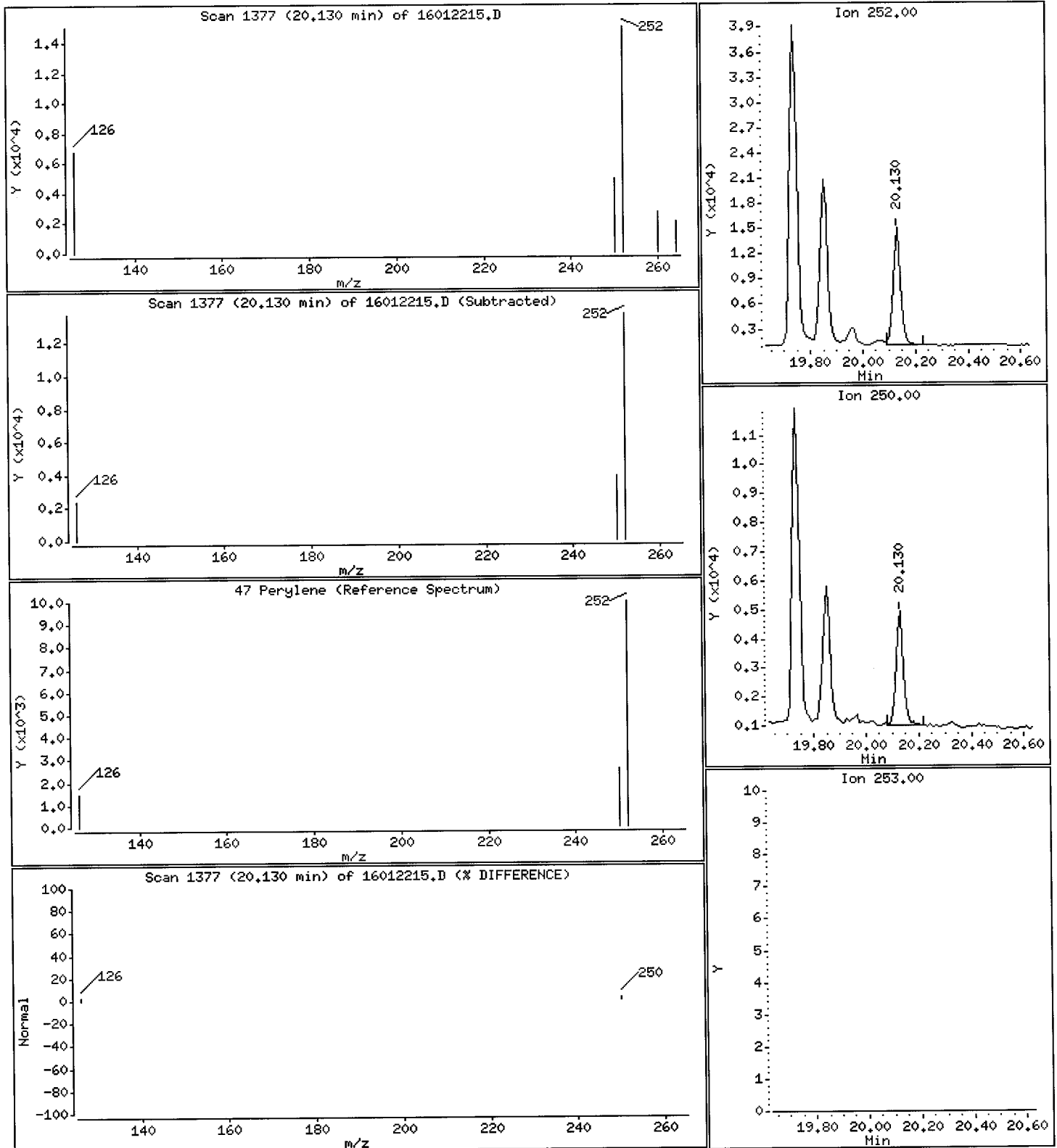
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

47 Perylene

Concentration: 652 ug/kg



Date : 22-JAN-2016 14:29

Client ID: PG-WS-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0C

Volume Injected (uL): 2.0

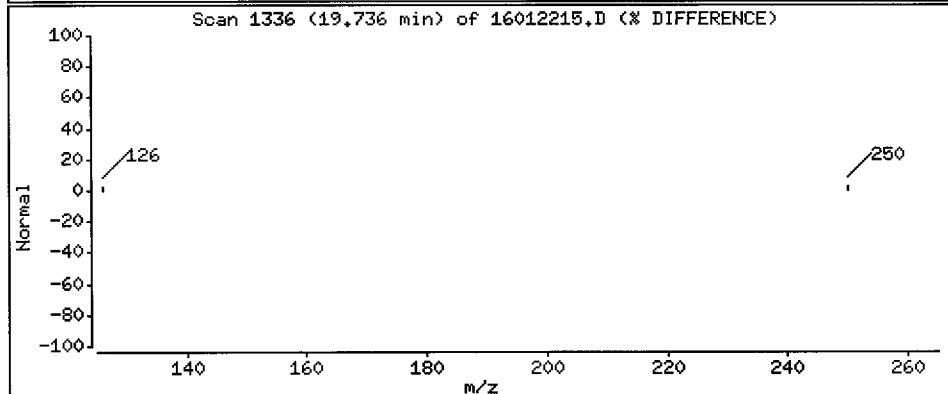
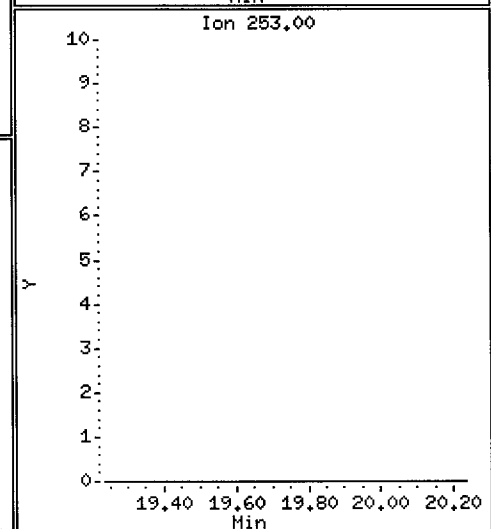
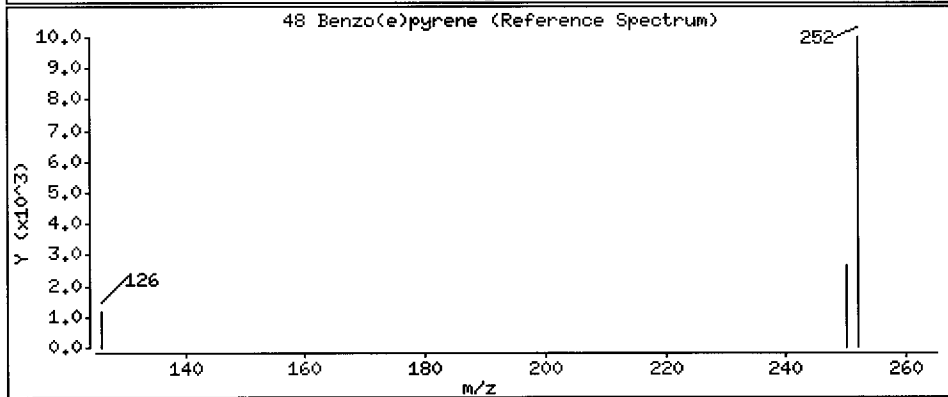
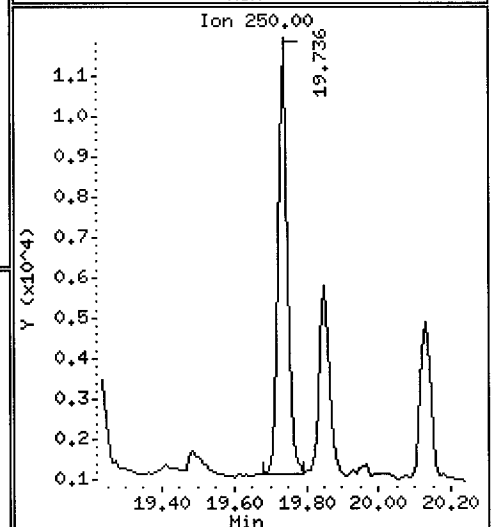
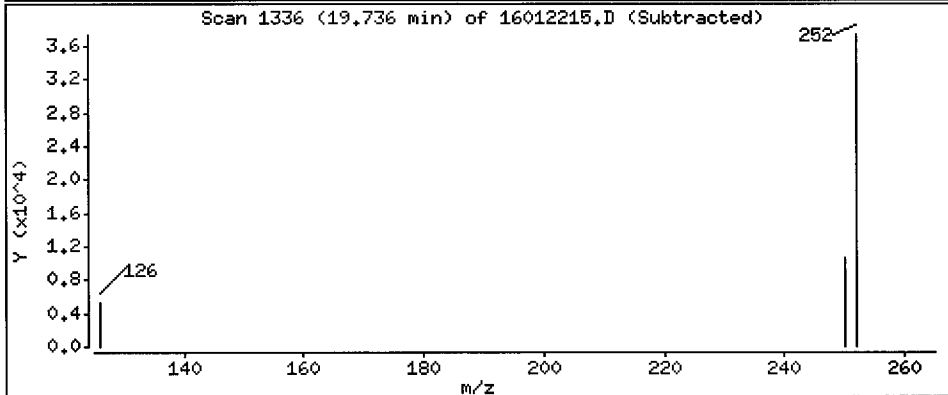
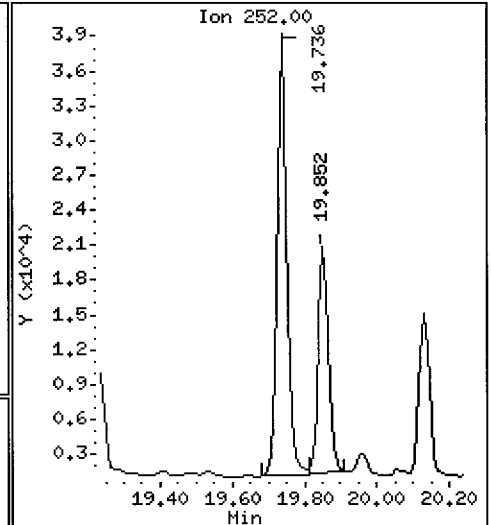
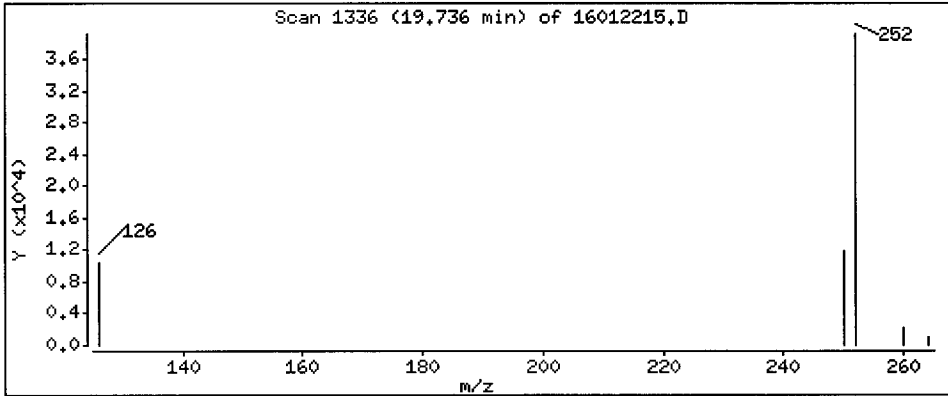
Operator: JW

Column phase: Rxi-17S11 MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 1670 ug/kg



Lab ID: ATS0C

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 14:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012216.D
 Lab Smp Id: ATSOD Client Smp ID: PG-GP-1-MUS-COC-160
 Inj Date : 22-JAN-2016 14:59 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOD
 Misc Info : 16-138
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.030	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

JW
1/25/16

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/kg)
* 4 Naphthalene-d8	136	6.723	6.744 (1.000)		377268	200.000	
5 Naphthalene	128	6.765	6.776 (1.006)		25682	11.7852	587
\$ 6 2-Methylnaphthalene-d10	152	7.711	7.721 (1.147)		207808	148.399	7400
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	9.744	9.744 (1.000)		268633	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	10.010	10.010 (1.027)		25597	11.8079	589
15 Fluorene	166	10.630	10.630 (1.091)		23902	14.7019	733
* 18 Phenanthrene-d10	188	12.413	12.424 (1.000)		436597	200.000	
19 Phenanthrene	178	12.457	12.468 (1.004)		238329	90.6048	4520
20 Anthracene	178	12.512	12.523 (1.008)		44955	19.0932	952
\$ 23 Fluoranthene-d10	212	14.519	14.518 (1.170)		429146	178.735	8910
24 Fluoranthene	202	14.557	14.557 (1.173)		316659	119.905	5980
25 Pyrene	202	15.047	15.057 (0.877)		221477	86.7777	4330
28 Benzo(a)anthracene	228	17.067	17.075 (0.994)		61400	28.5753	1420
* 29 Chrysene-d12	240	17.167	17.167 (1.000)		322279	200.000	
30 Chrysene	228	17.217	17.217 (1.003)		93968	39.8459	1990
44 Benzo(b)fluoranthene	252	18.967	18.967 (0.945)		51458	23.6929	1180
45 Benzo(k)fluoranthene	252	19.015	19.015 (0.948)		37687	14.8908	742

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/kg)	
===== 46 Benzo(j) fluoranthene	252	19.082	19.082	(0.951)	29796	12.9240	644	
34 Benzo(a) pyrene	252	Compound Not Detected.						
* 35 Perylene-d12	264	20.063	20.062	(1.000)	320562	200.000		
\$ 36 Dibenzo(a,h)anthracene-d14	292	22.529	22.529	(1.123)	255626	197.572	9850	
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
39 Benzo(g,h,i)perylene	276	Compound Not Detected.						
47 Perylene	252	Compound Not Detected.						
48 Benzo(e)pyrene	252	19.736	19.736	(0.984)	36335	16.5538	825	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012216.D
 Lab Smp Id: ATS0D
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-138

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-GP-1-MUS-COC
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	377268	15.06
11 Acenaphthene-d10	239179	119590	478358	268633	12.31
18 Phenanthrene-d10	372253	186127	744506	436597	17.29
29 Chrysene-d12	294711	147356	589422	322279	9.35
35 Perylene-d12	260595	130298	521190	320562	23.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.72	-0.31
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.41	-0.09
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

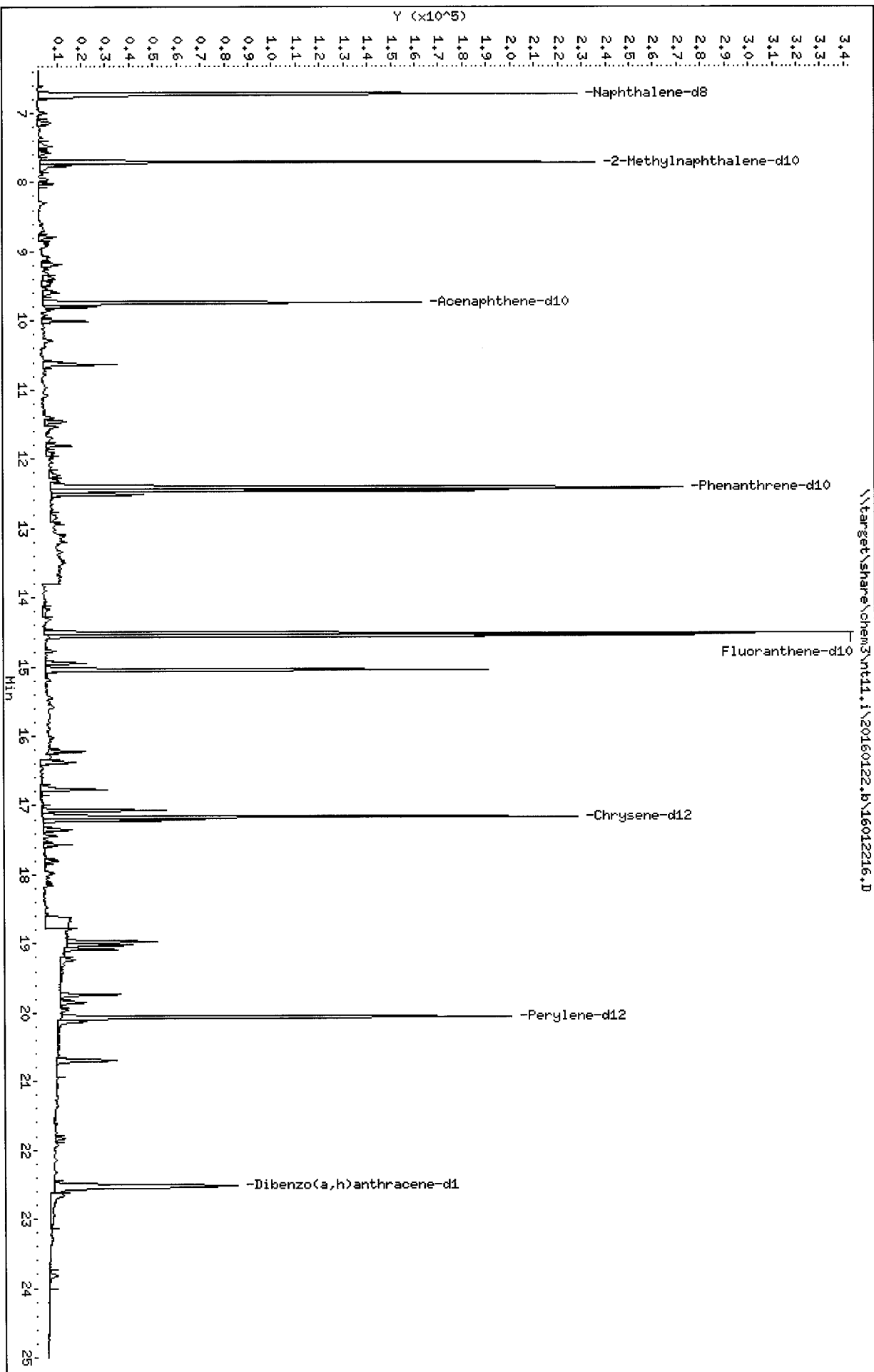
RECOVERY REPORT

Client Name: Anchor QEA, LLC
Sample Matrix: SOLID
Lab Smp Id: ATS0D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: PEMD.sub
Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
Misc Info: 16-138

Client SDG: ATS0
Fraction: SV
Client Smp ID: PG-GP-1-MUS-COC-160
Operator: JW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	15000	7400	49.47	30-160
\$ 23 Fluoranthene-d10	15000	8910	59.58	30-160
\$ 36 Dibenzo(a,h) anthra	15000	9850	65.86	30-160

\\target\share\chem3\nt11.1\20160122.16\16012216.D



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0D

Volume Injected (uL): 2.0

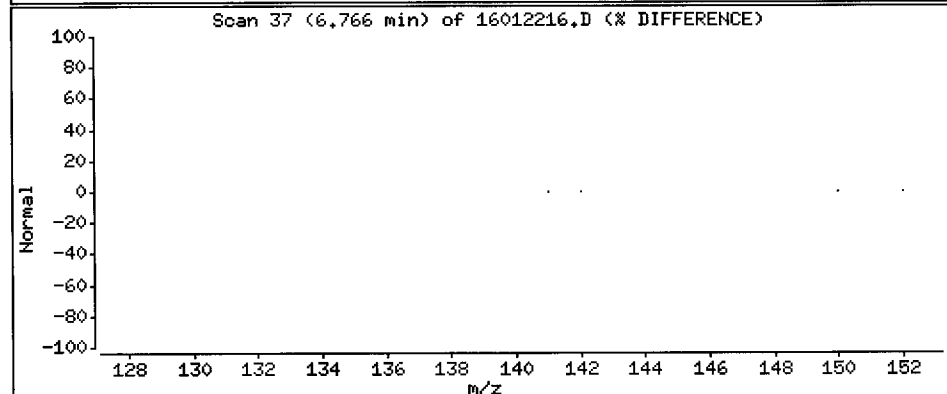
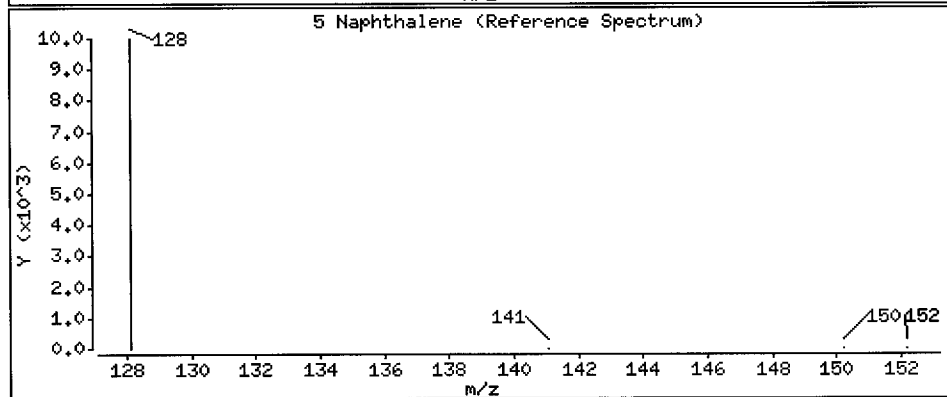
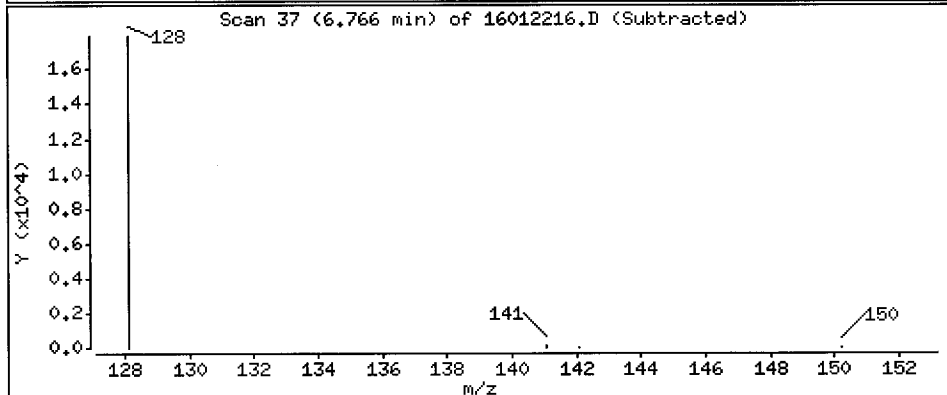
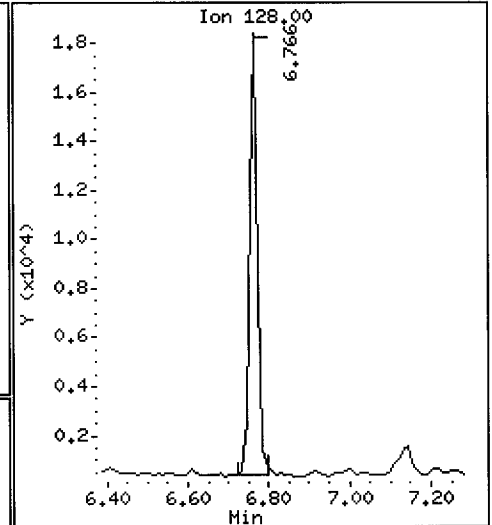
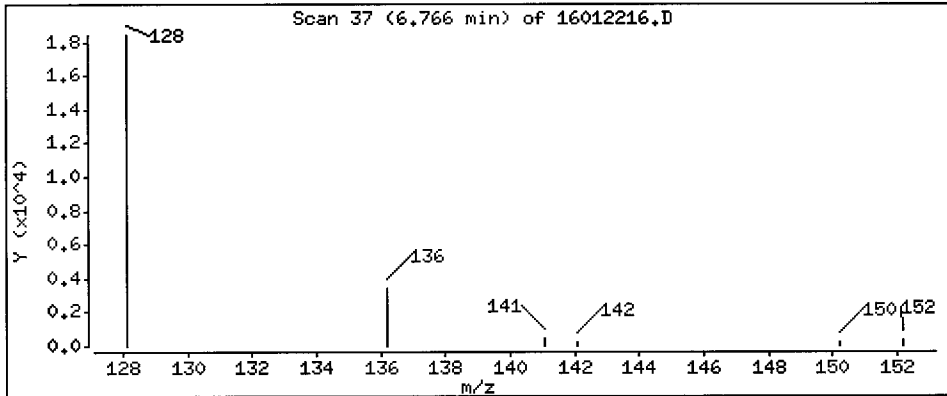
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 587 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO0

Volume Injected (uL): 2.0

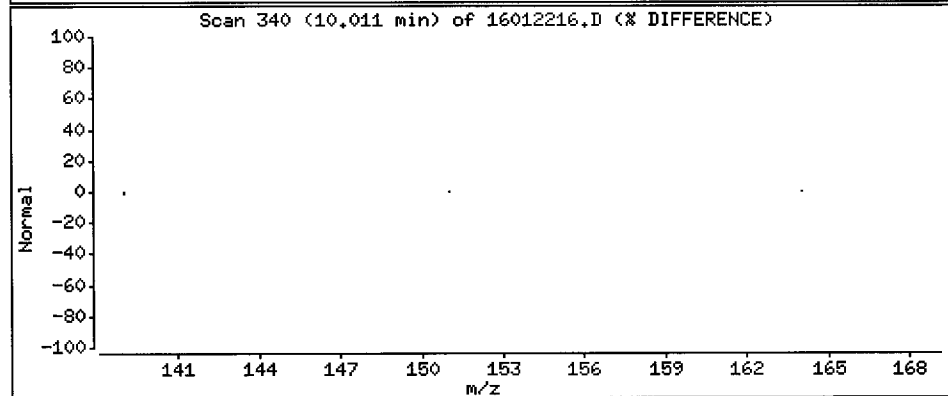
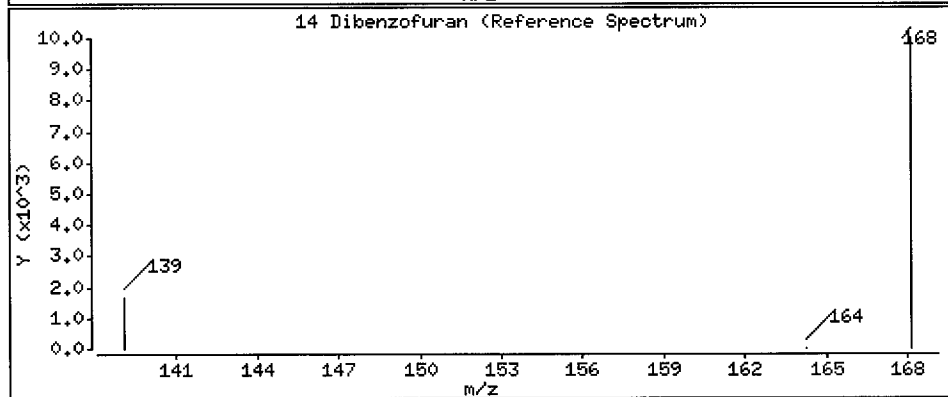
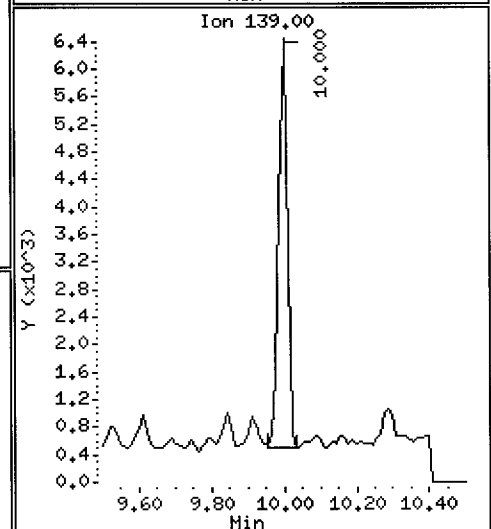
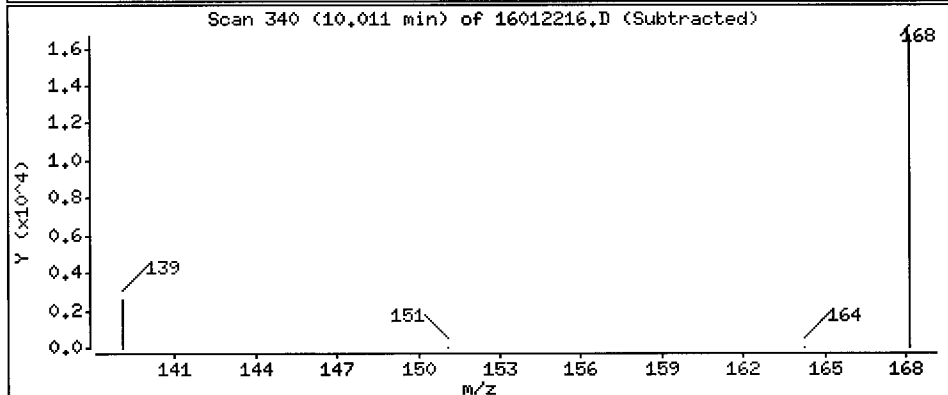
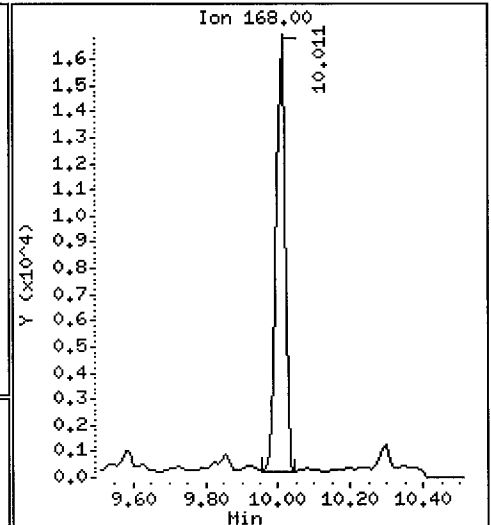
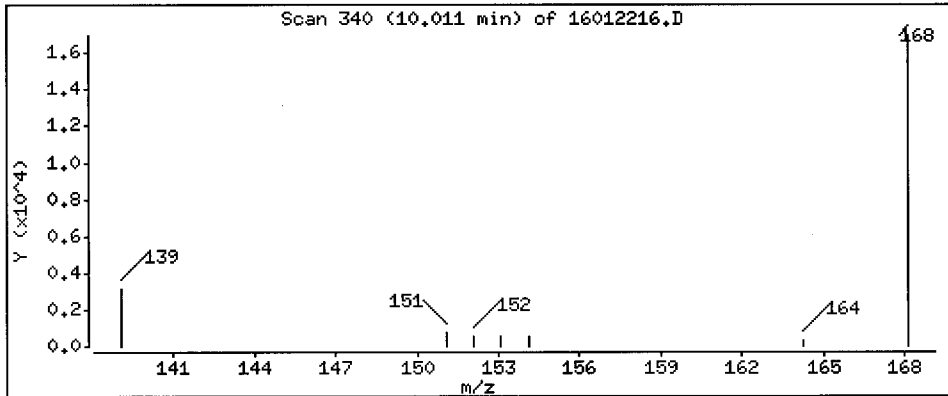
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

14 Dibenzofuran

Concentration: 589 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD0

Volume Injected (uL): 2.0

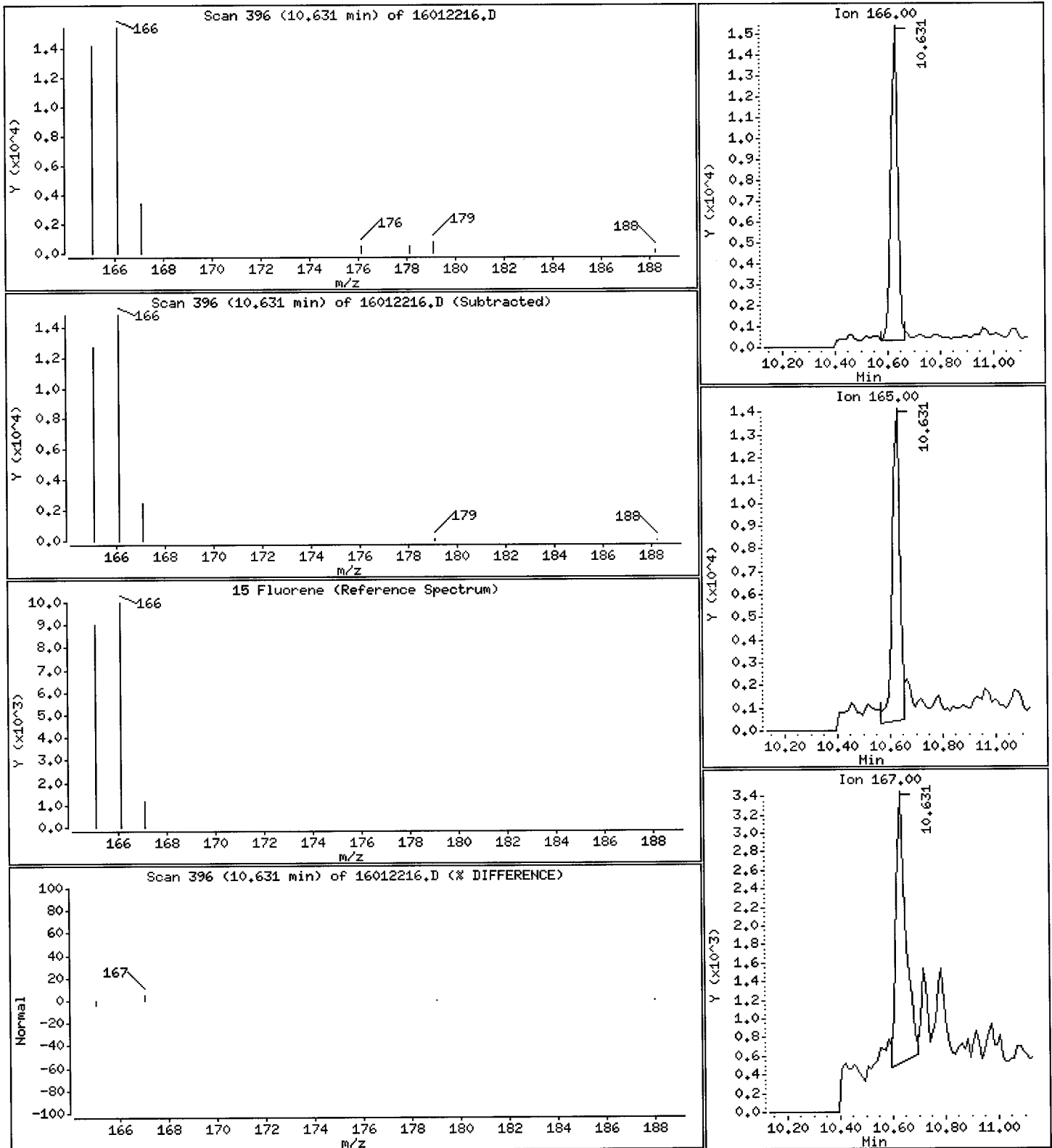
Operator: JW

Column phase: Rxi-17Si11 MS

Column diameter: 0.25

15 Fluorene

Concentration: 733 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

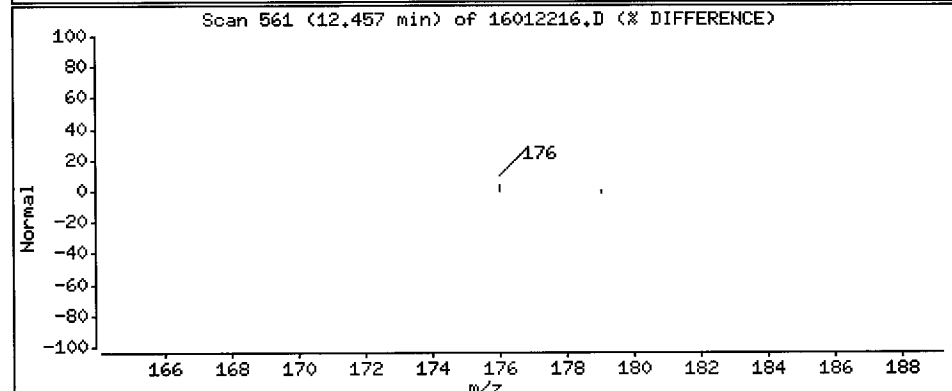
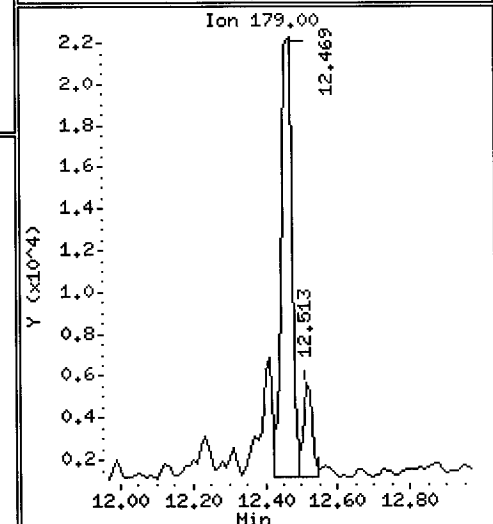
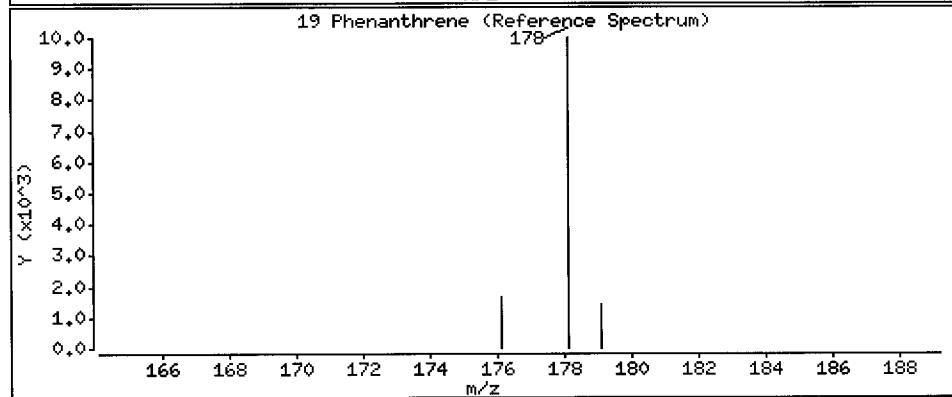
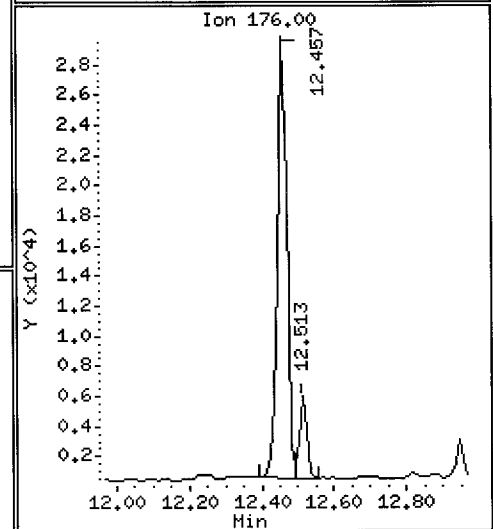
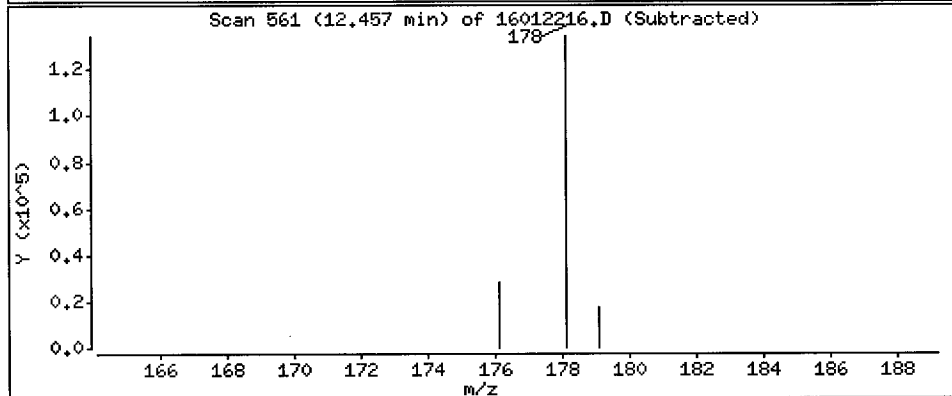
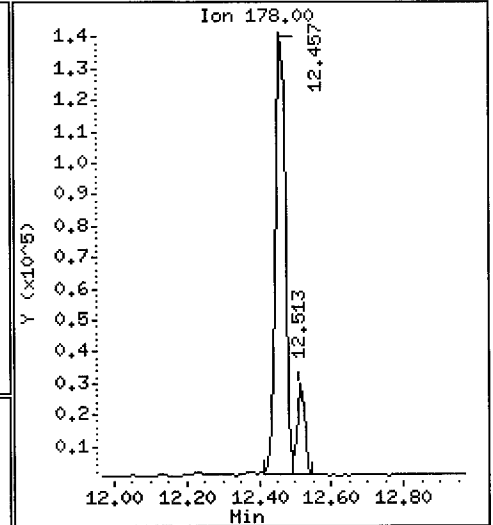
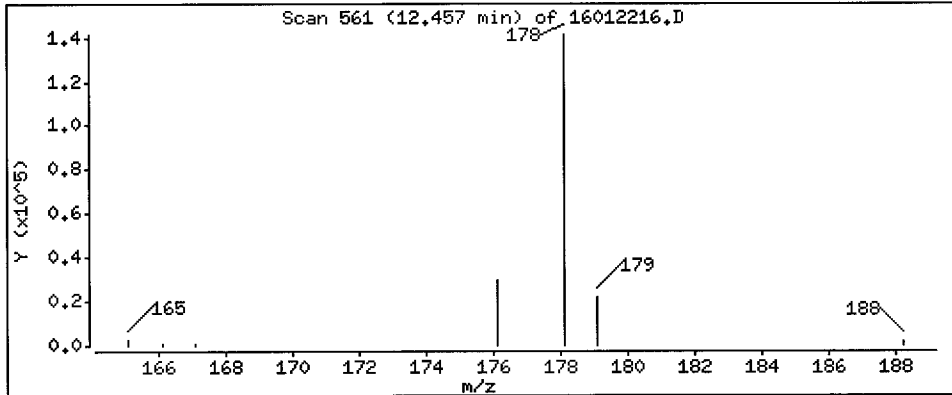
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 4520 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0D

Volume Injected (uL): 2.0

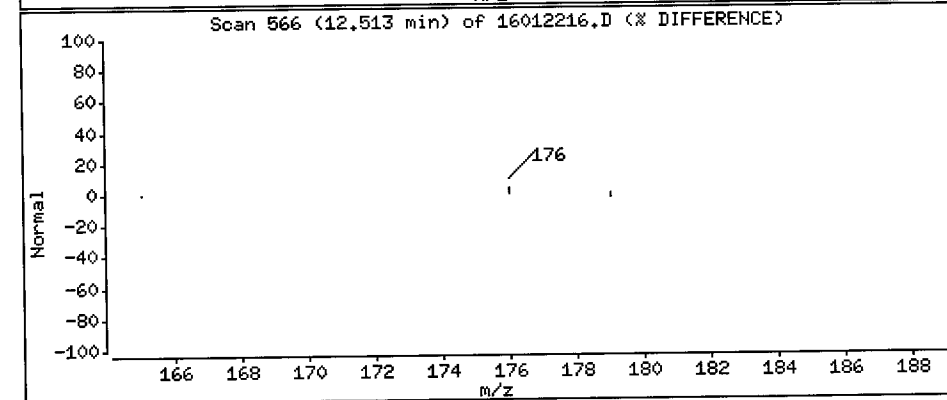
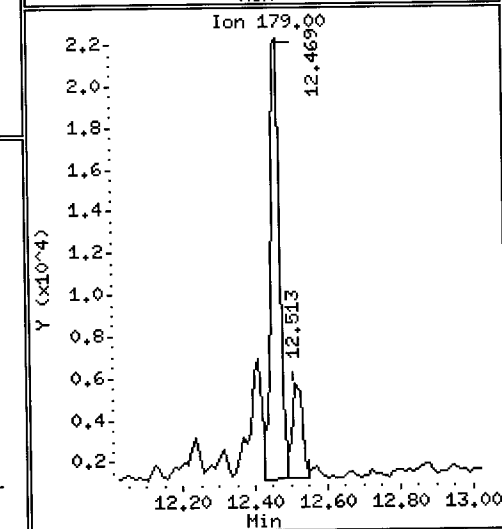
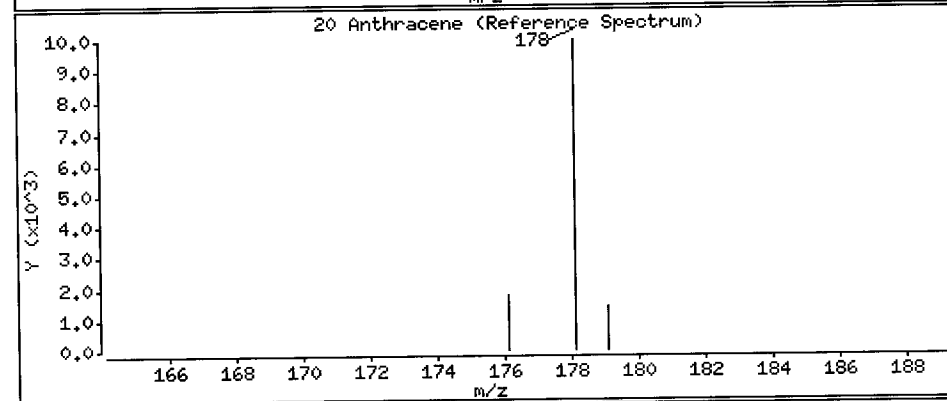
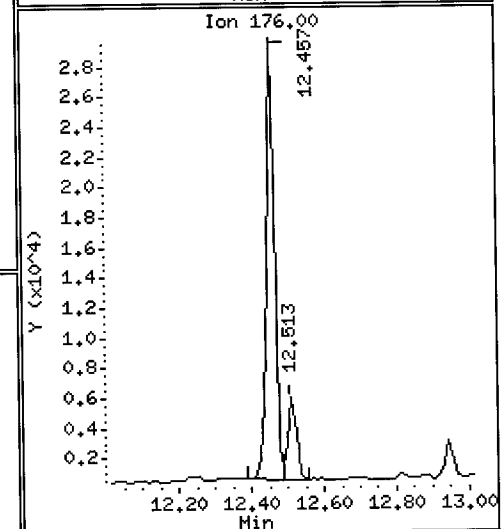
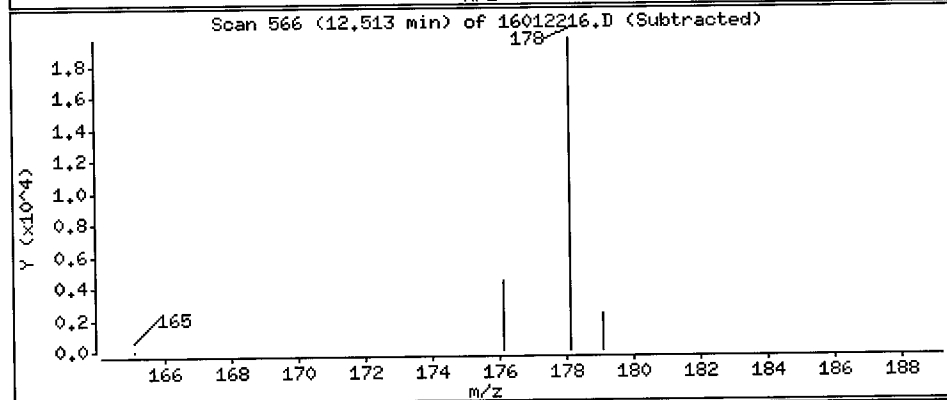
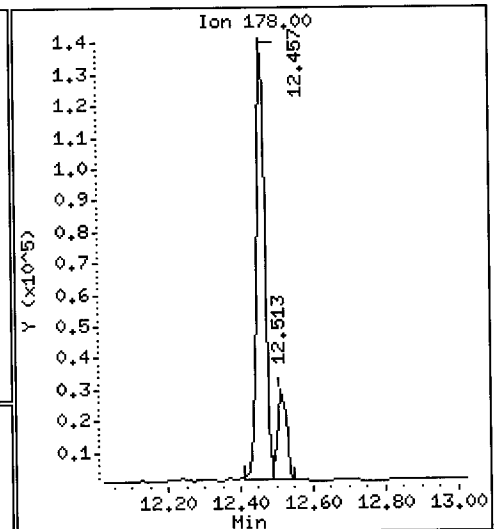
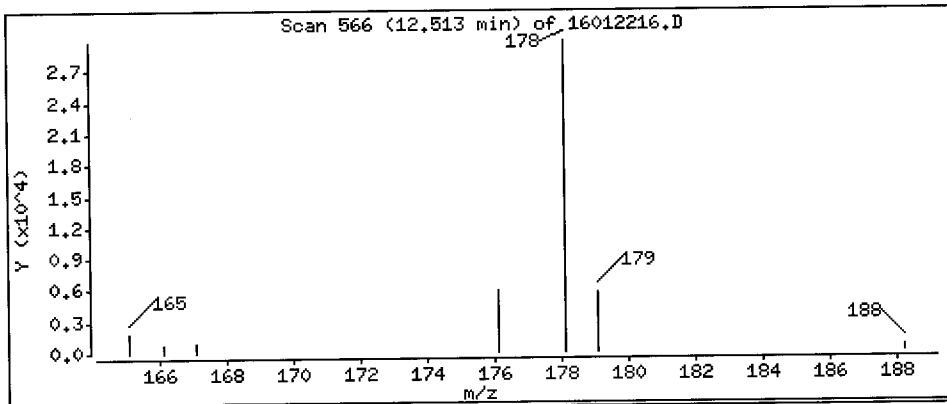
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

20 Anthracene

Concentration: 952 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

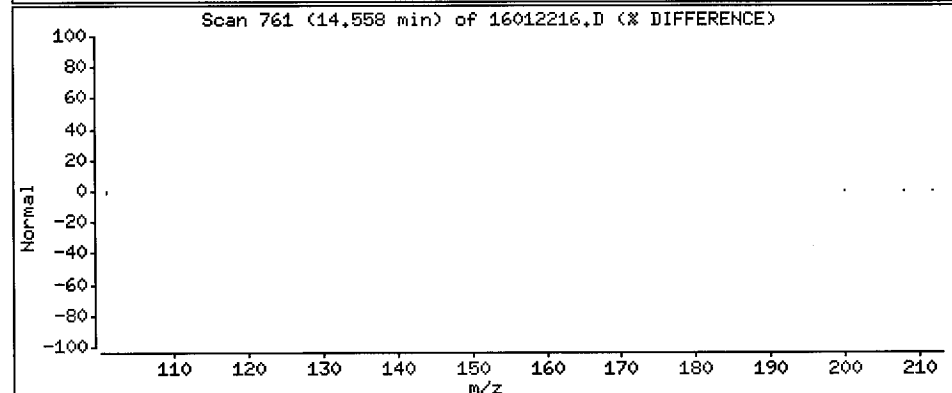
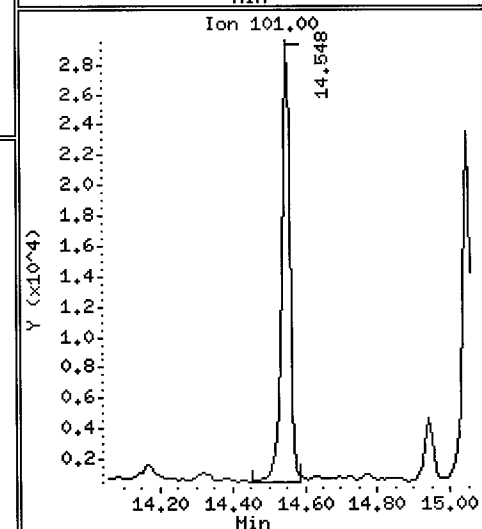
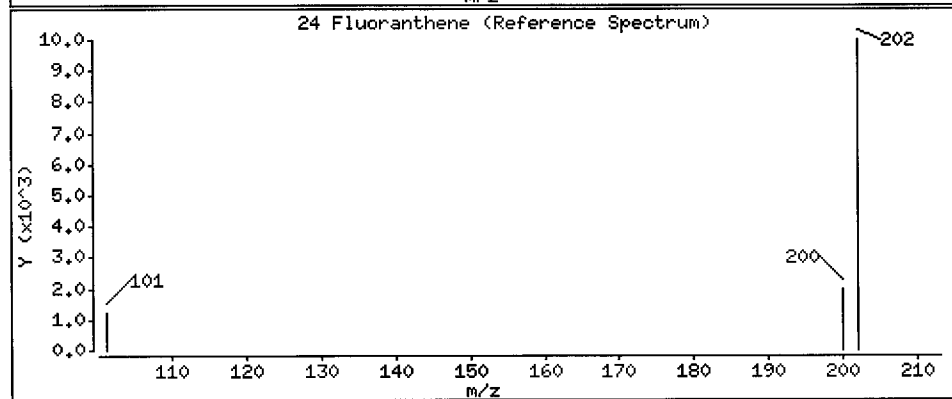
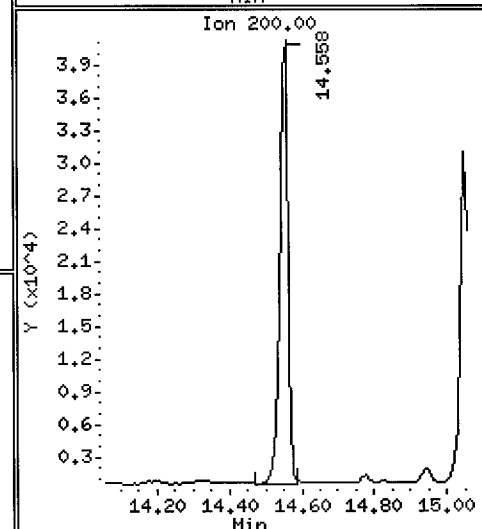
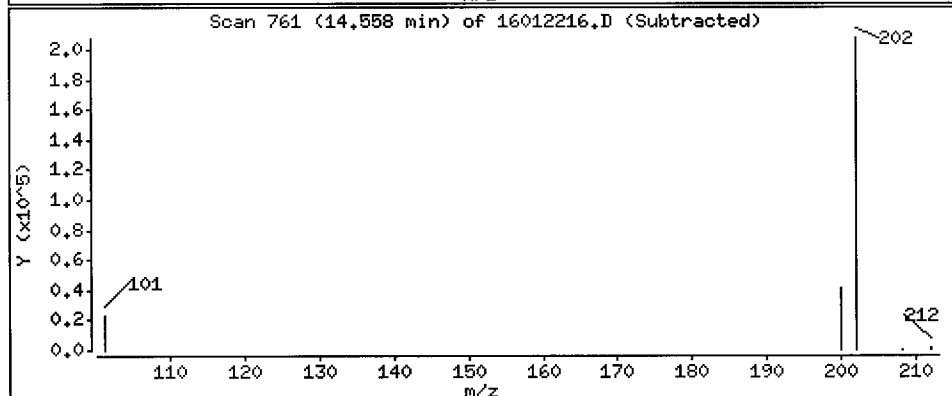
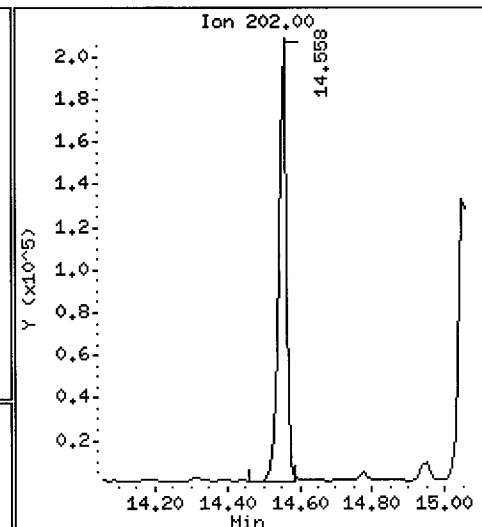
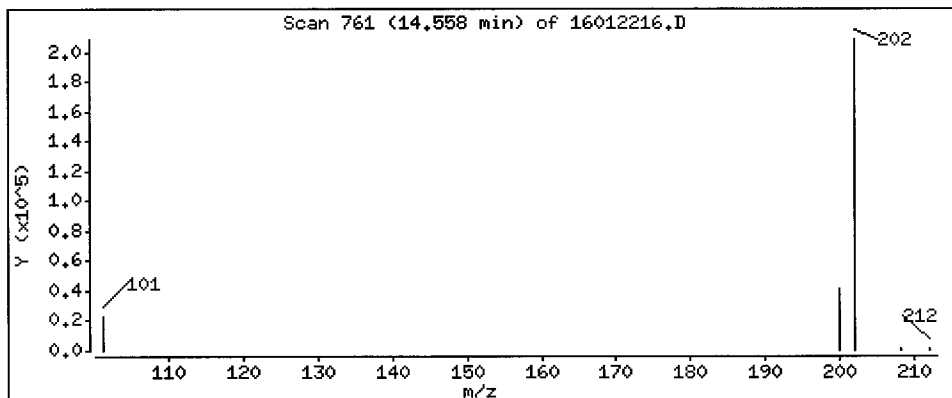
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 5980 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSO0

Volume Injected (uL): 2.0

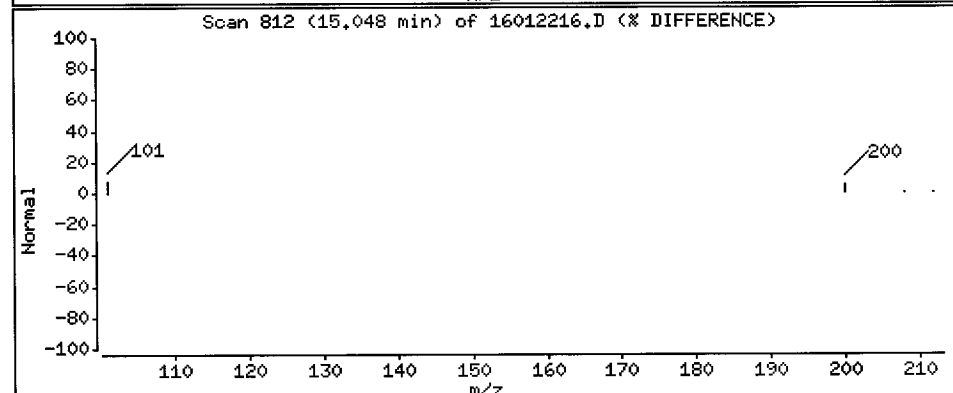
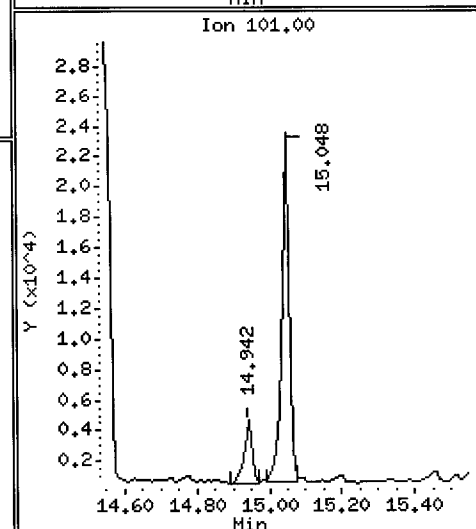
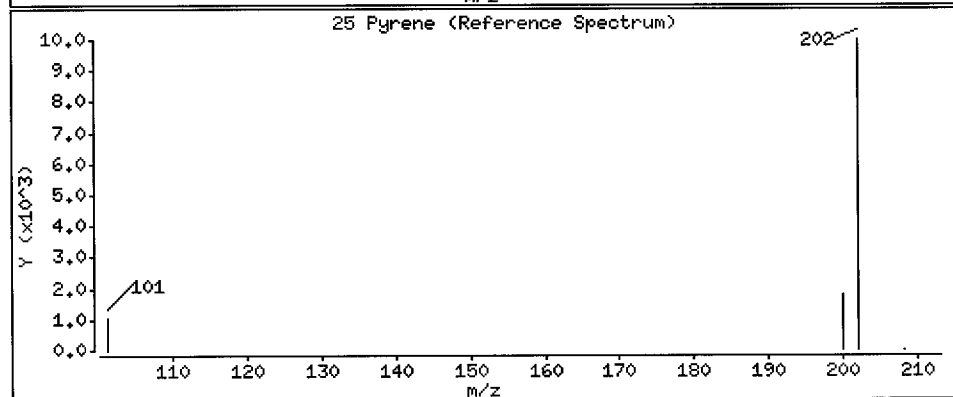
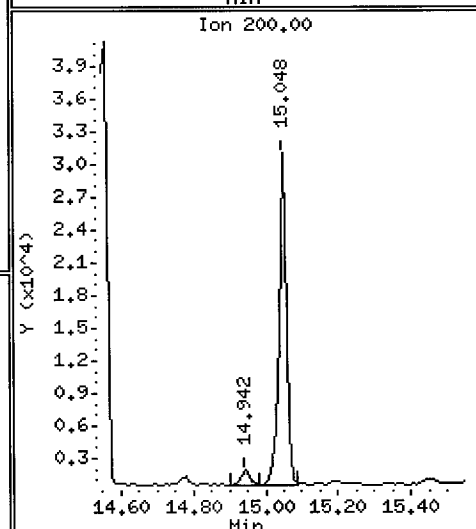
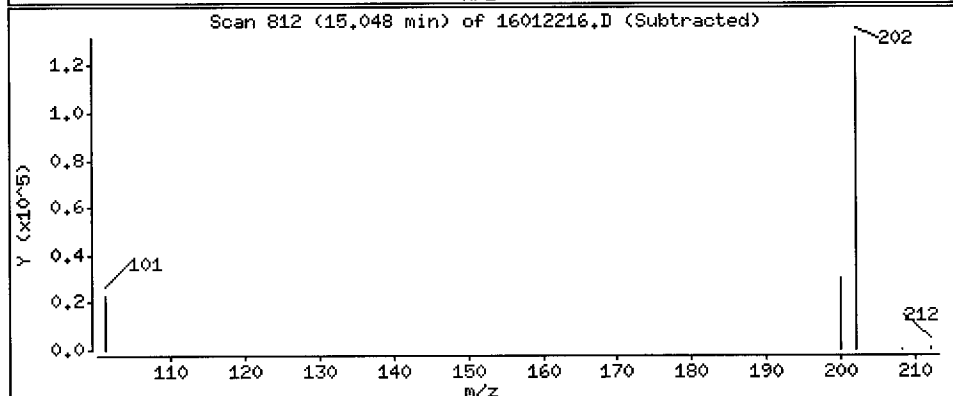
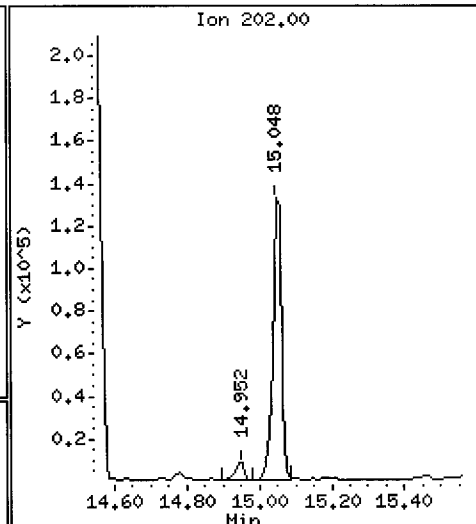
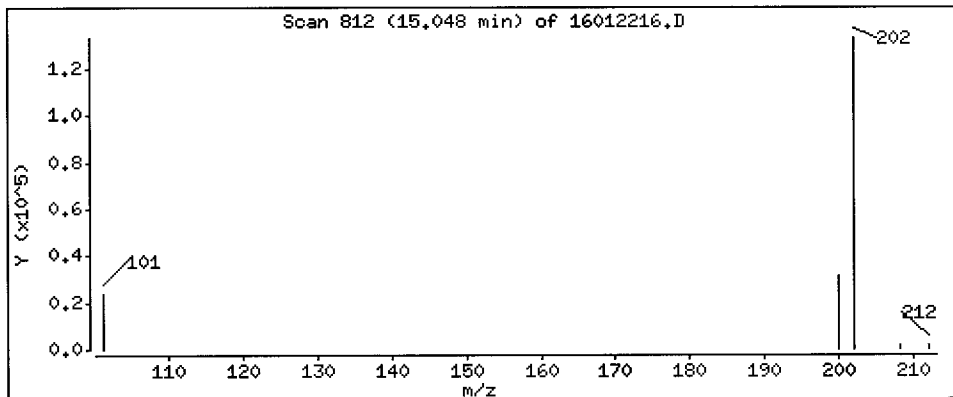
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 4330 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS0D

Volume Injected (uL): 2.0

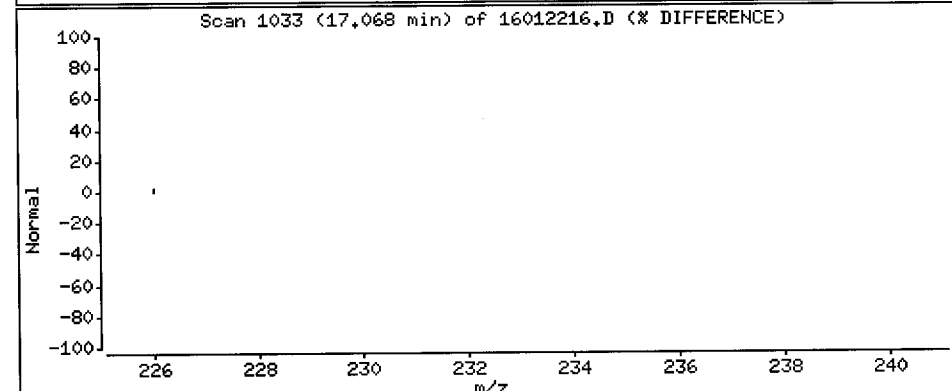
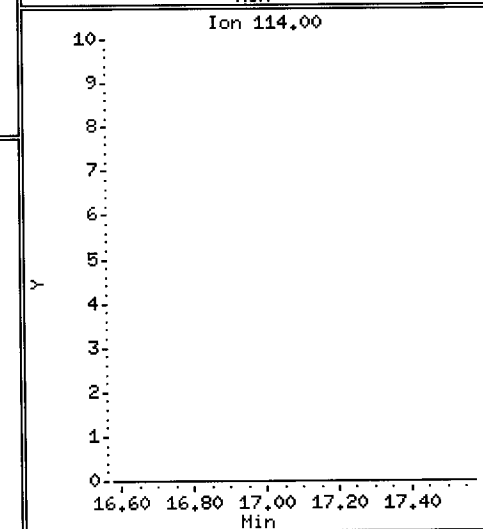
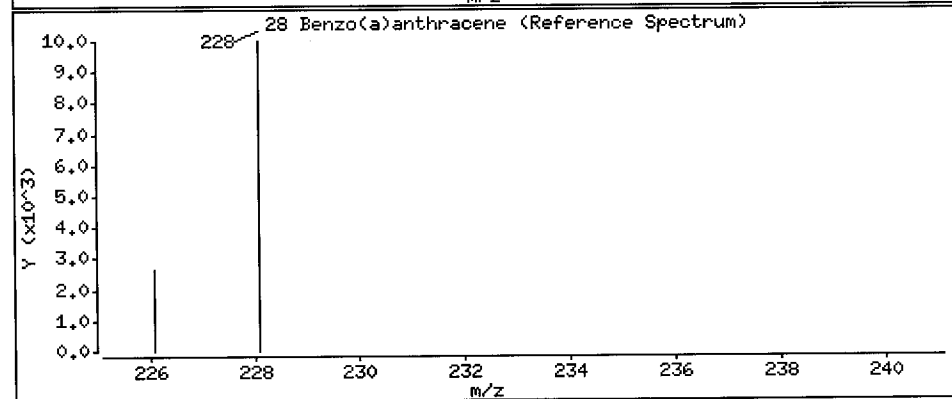
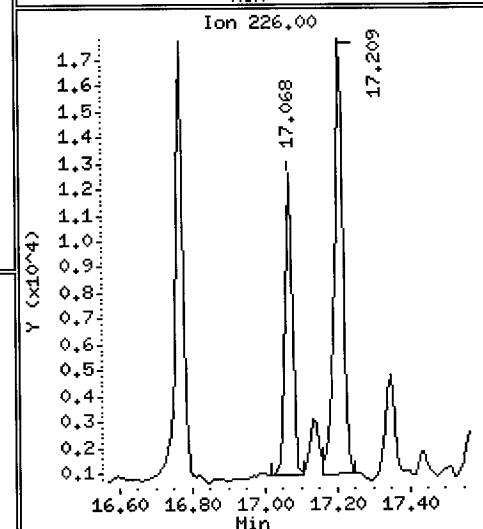
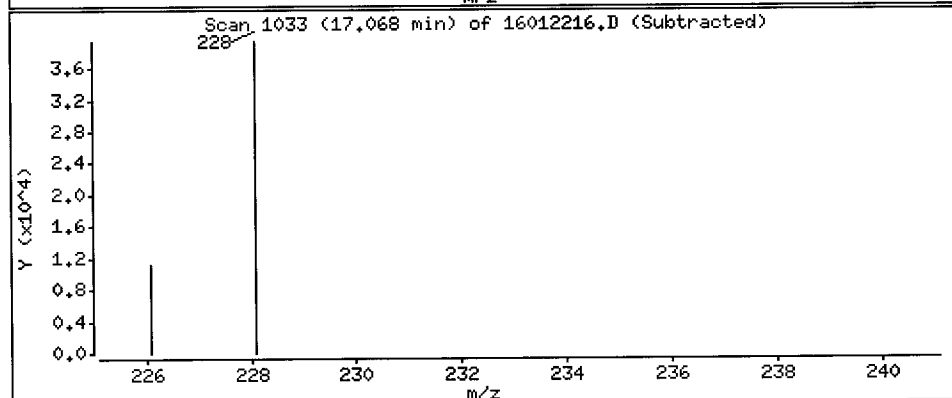
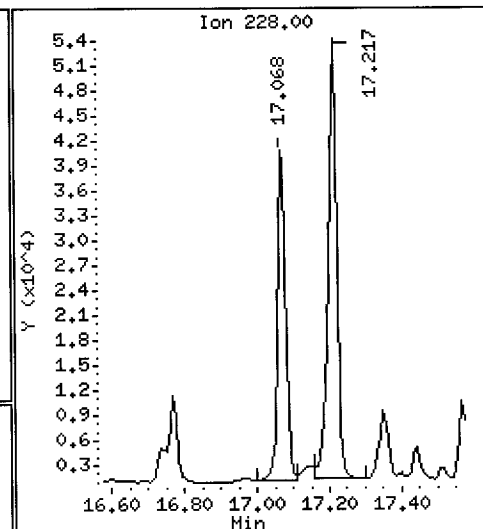
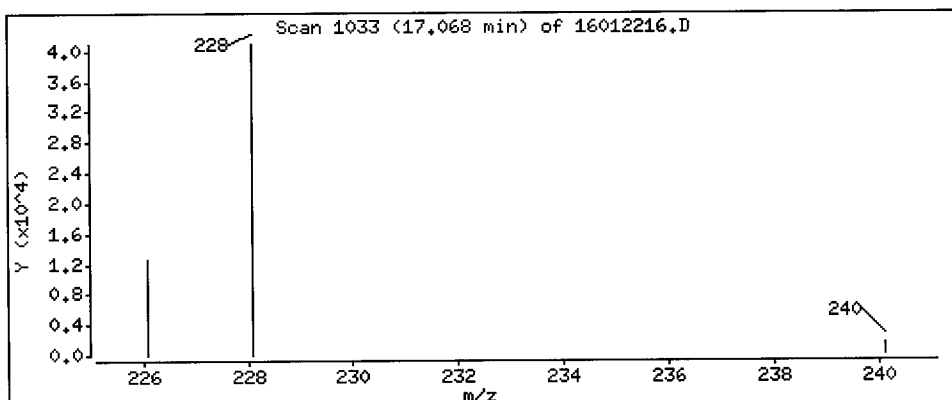
Operator: JM

Column phase: Rxi-17Si11 MS

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 1420 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

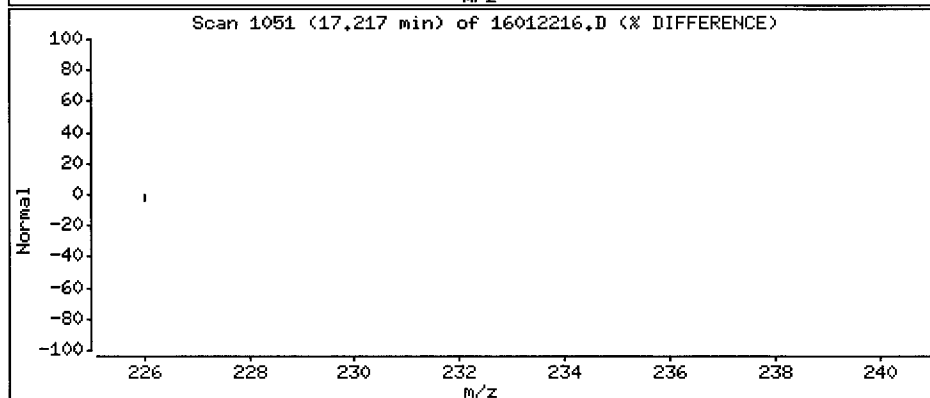
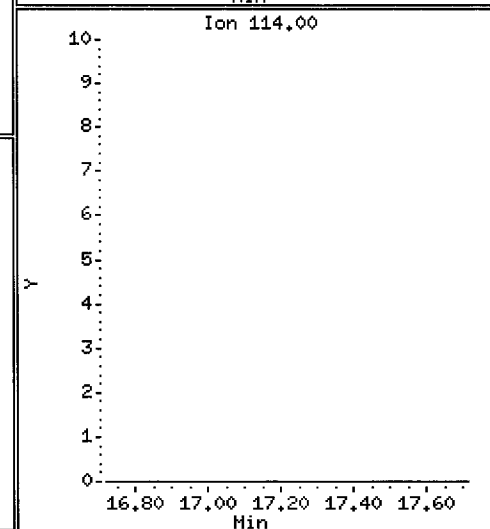
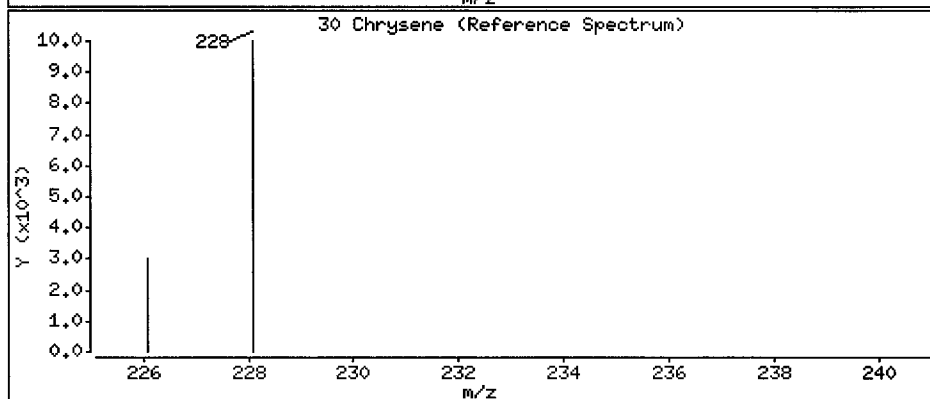
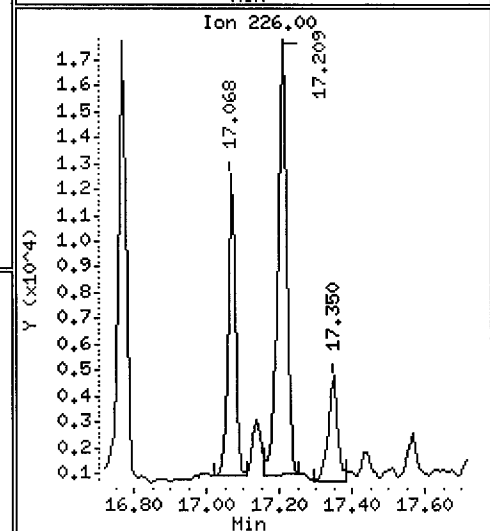
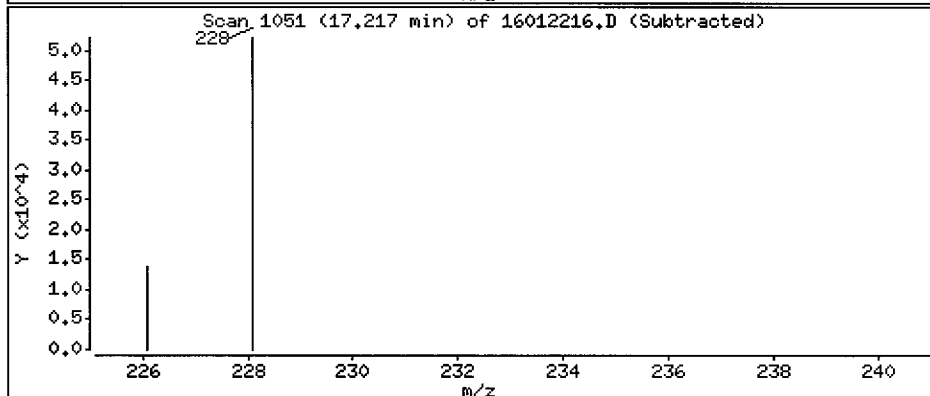
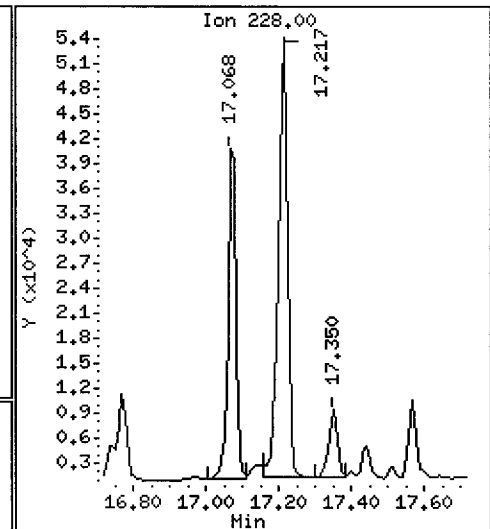
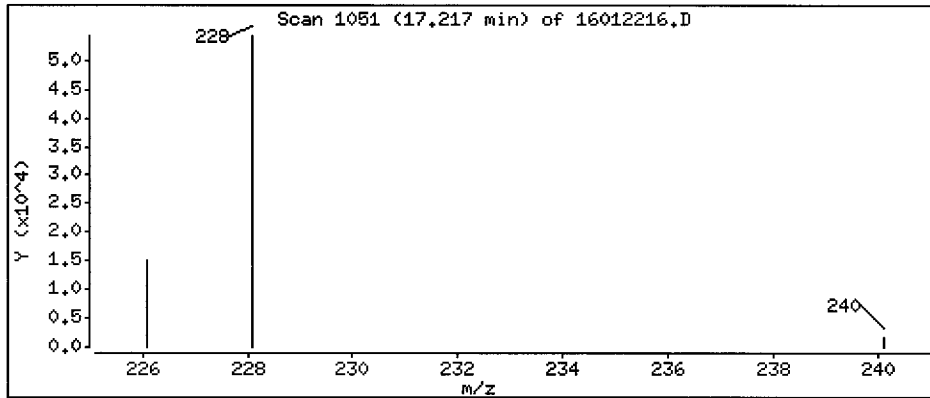
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

30 Chrysene

Concentration: 1990 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

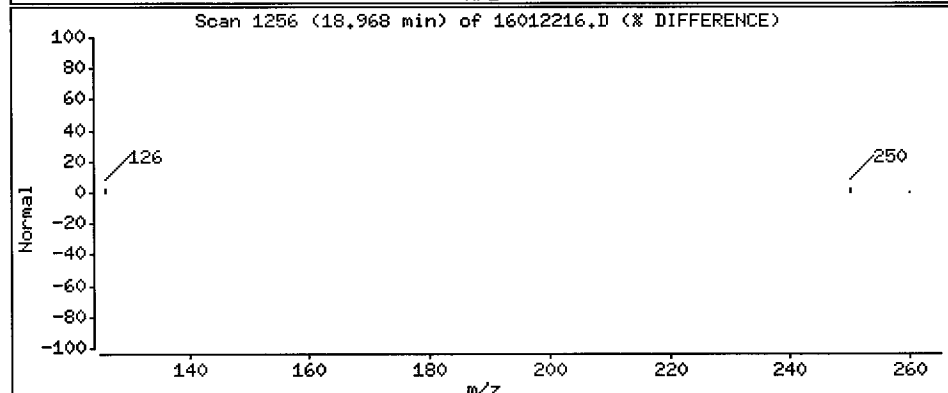
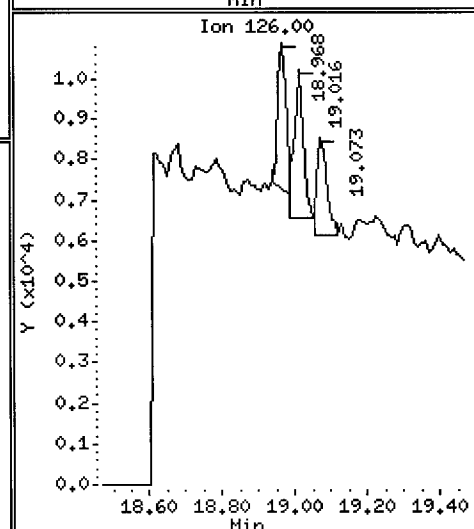
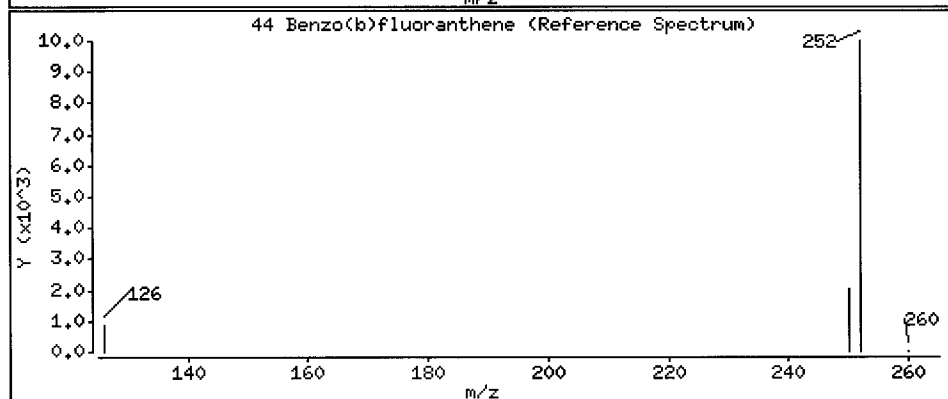
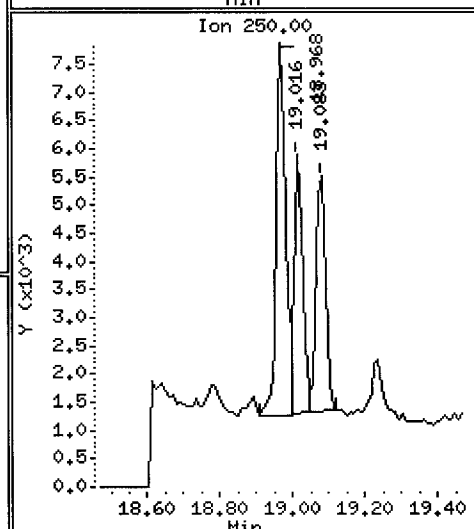
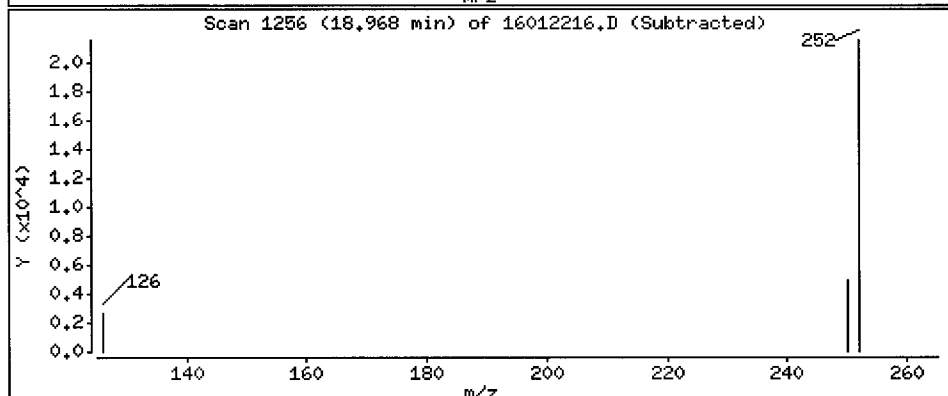
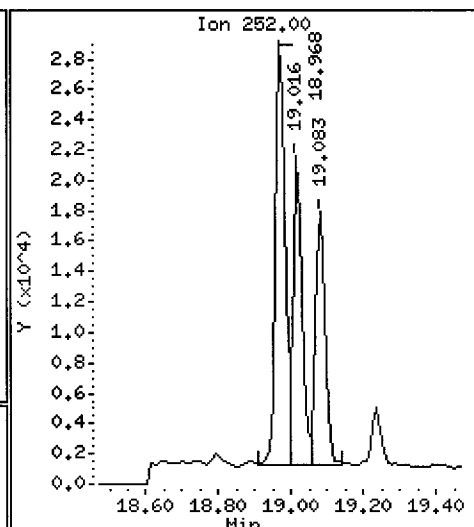
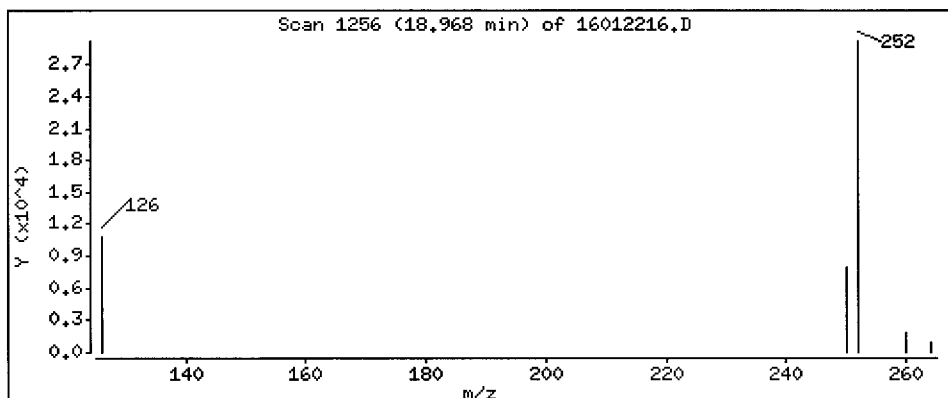
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 1180 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

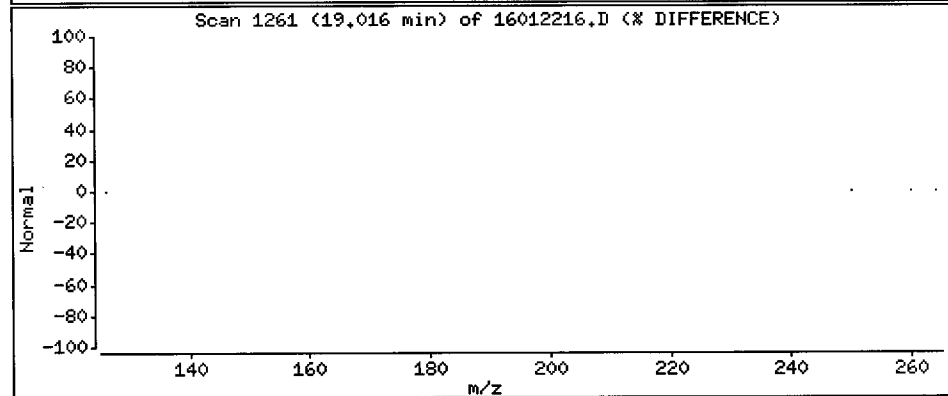
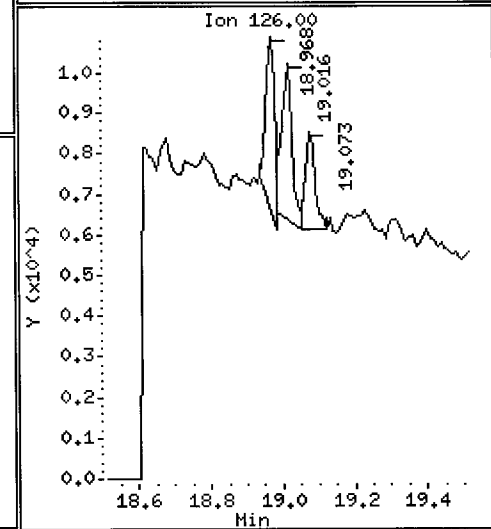
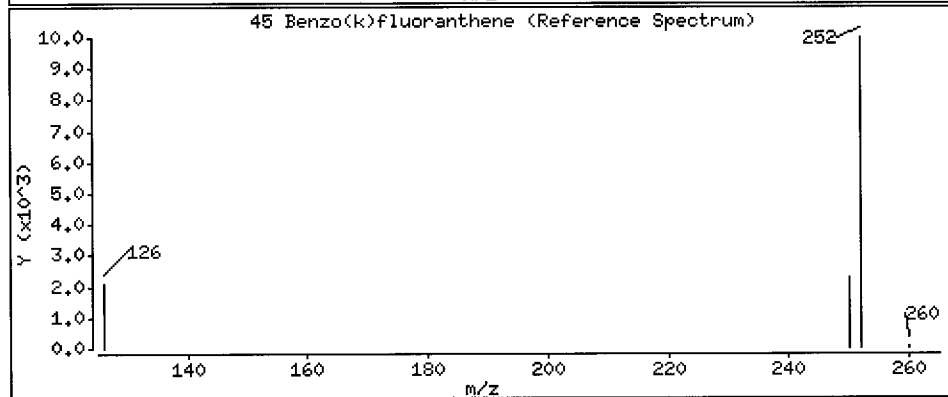
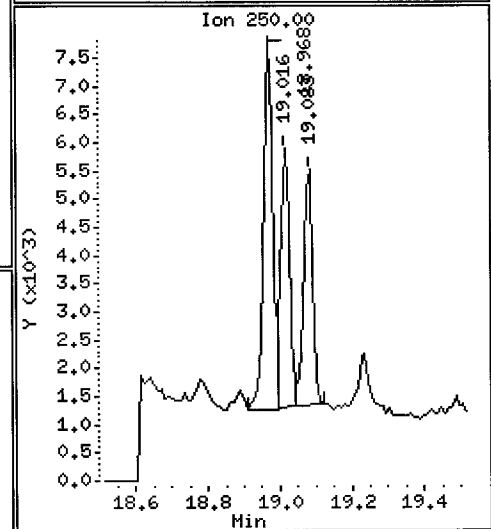
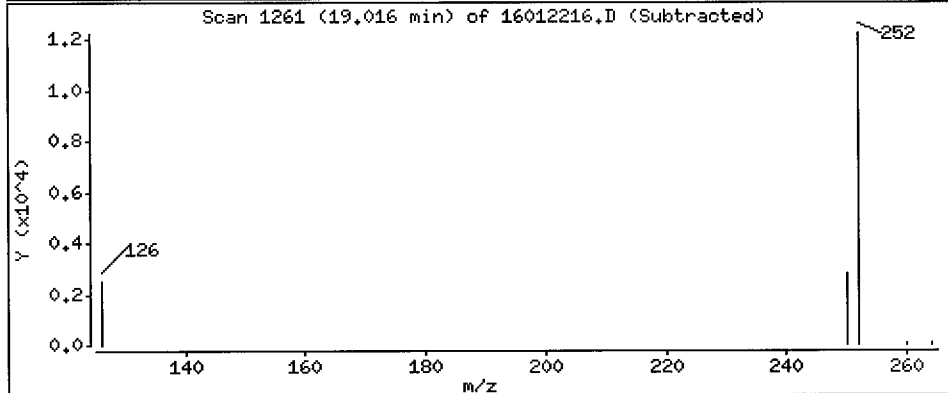
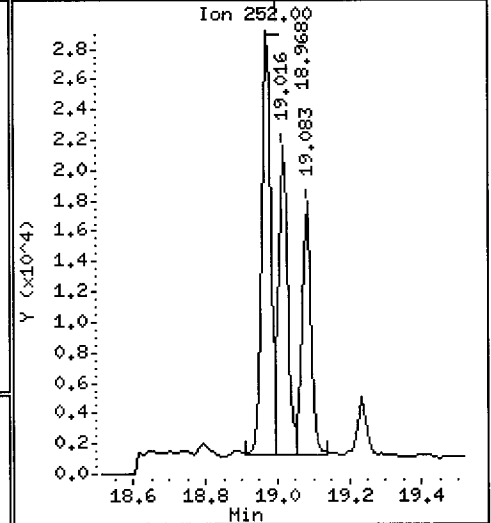
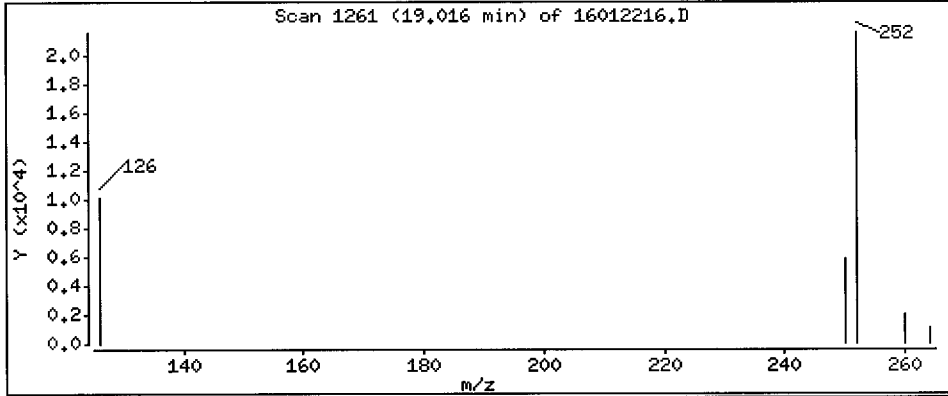
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 742 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATSD

Volume Injected (uL): 2.0

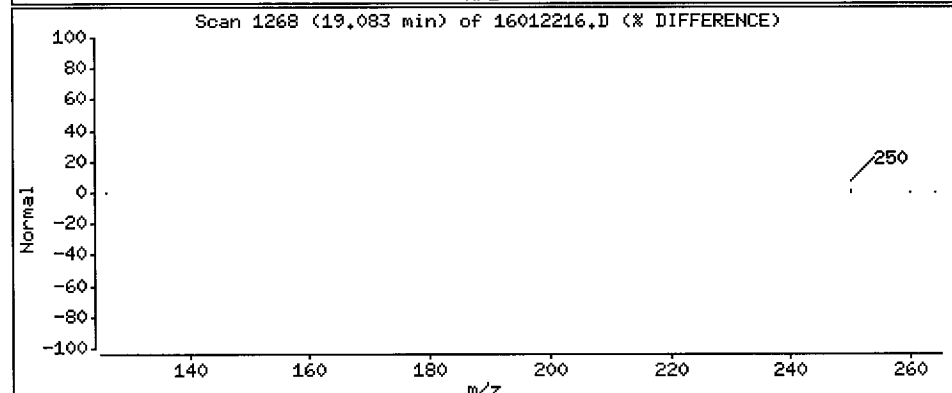
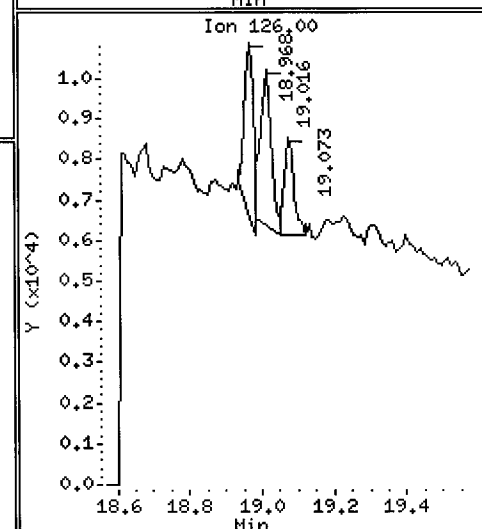
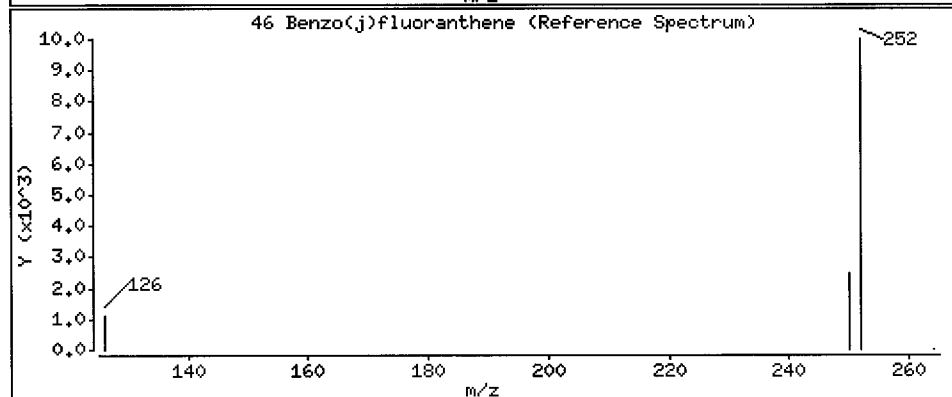
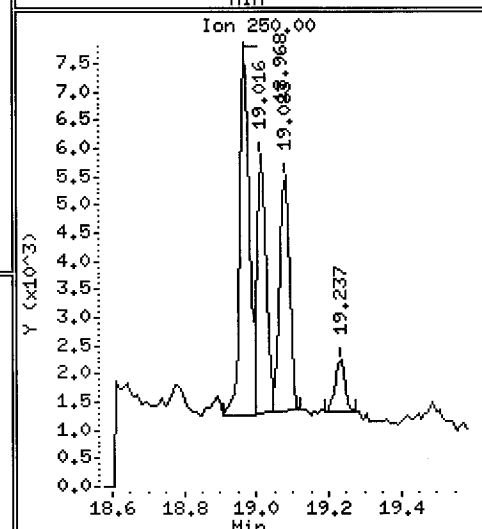
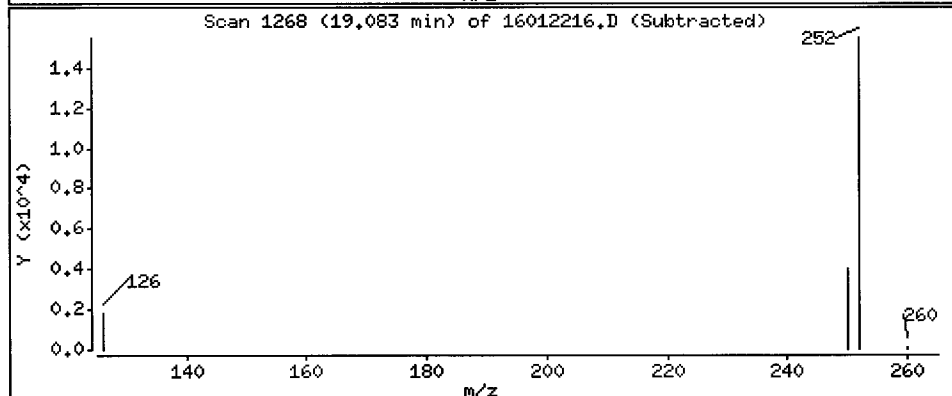
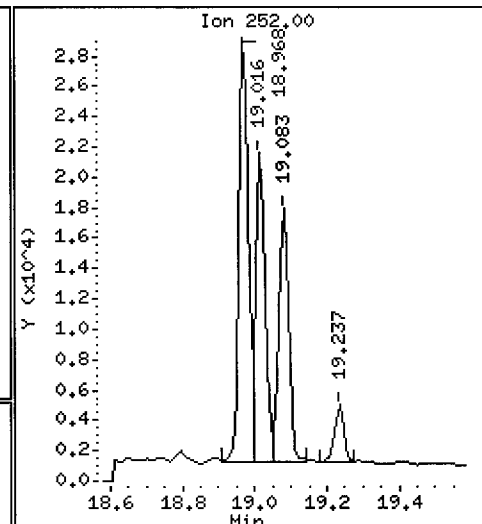
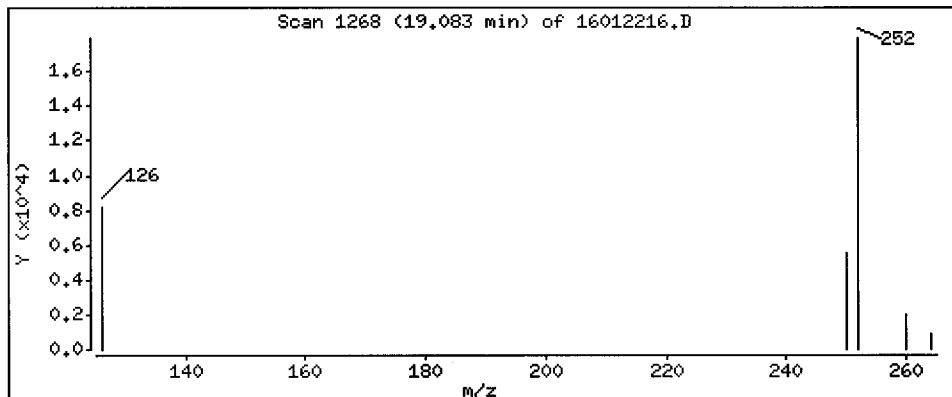
Operator: JN

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 644 ug/kg



Date : 22-JAN-2016 14:59

Client ID: PG-GP-1-MUS-COC-160

Instrument: nt11.i

Sample Info: ATS00

Volume Injected (uL): 2.0

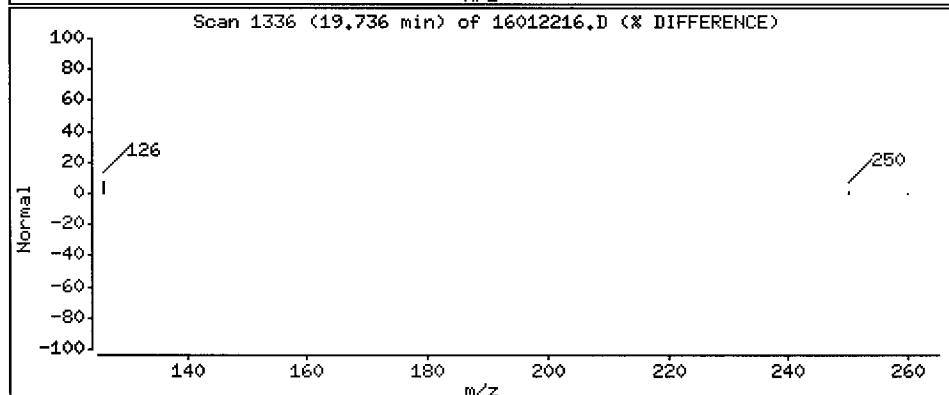
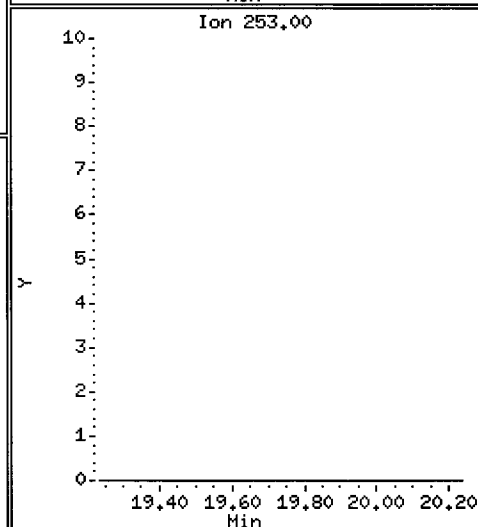
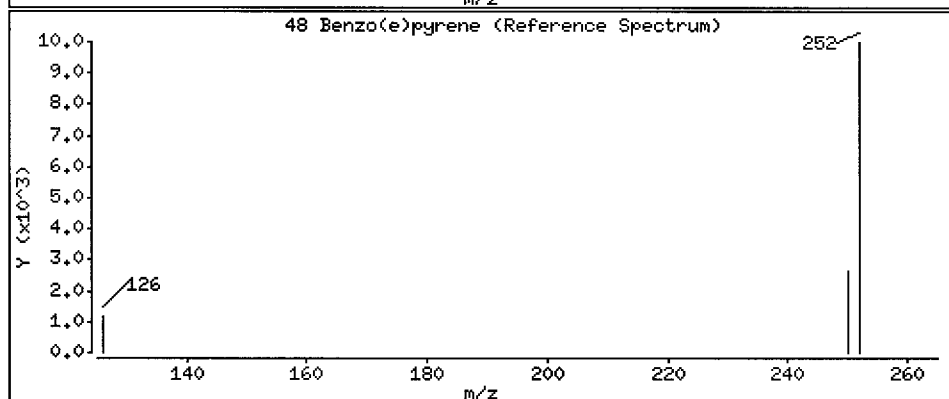
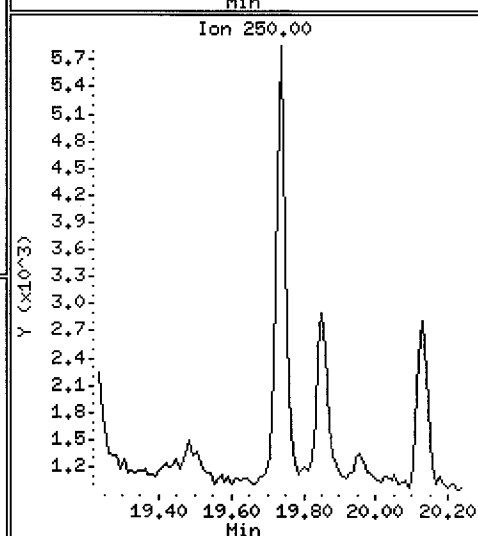
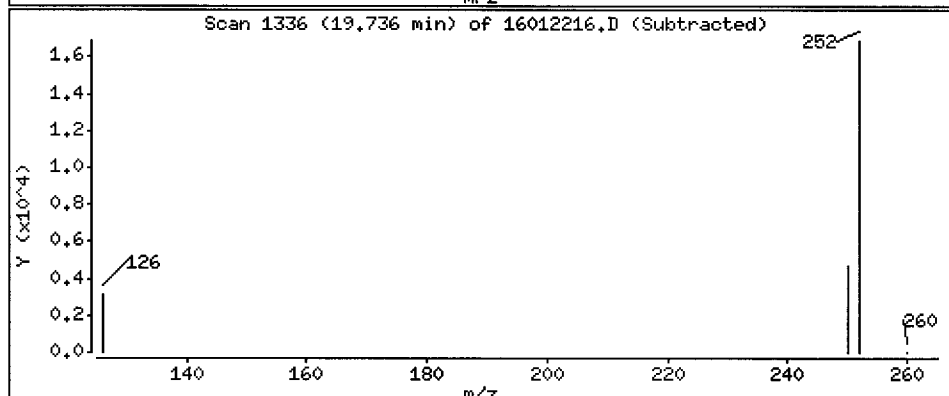
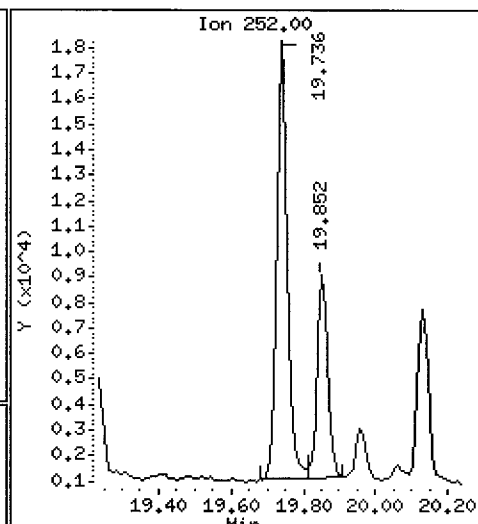
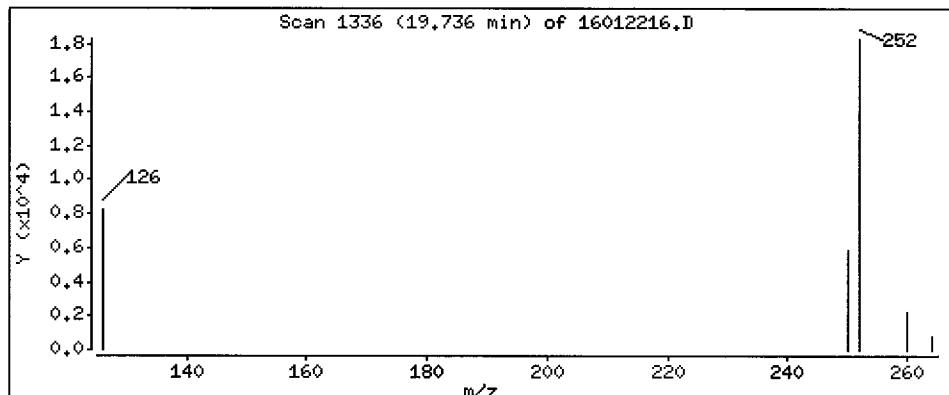
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 825 ug/kg



Lab ID: ATS0D

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 14:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012217.D
 Lab Smp Id: ATSOE Client Smp ID: PG-SMA2-5-MUS-COC-1
 Inj Date : 22-JAN-2016 15:29 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSOE
 Misc Info : 16-139
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.050	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

JW
1/25/16

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN	FINAL	
			MASS	RT	EXP RT	REL RT	RESPONSE	(ng/mL)	(ug/kg)
* 4 Naphthalene-d8	136		6.734	6.744	(1.000)	384886	200.000		
5 Naphthalene	128		6.765	6.776	(1.005)	37731	16.9717	844	
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.145)	213489	149.439	7430	
7 2-Methylnaphthalene	142		Compound Not Detected.						
8 1-Methylnaphthalene	142		Compound Not Detected.						
10 Acenaphthylene	152		Compound Not Detected.						
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	273475	200.000		
12 Acenaphthene	153		9.800	9.811	(1.006)	35858	24.4774	1220	
14 Dibenzofuran	168		10.010	10.010	(1.027)	47999	21.7500	1080	
15 Fluorene	166		10.630	10.630	(1.091)	60016	36.2618	1800	
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	449495	200.000		
19 Phenanthrene	178		12.457	12.468	(1.003)	714224	263.733	13100	
20 Anthracene	178		12.512	12.523	(1.007)	228556	94.2865	4690	
\$ 23 Fluoranthene-d10	212		14.518	14.518	(1.169)	435571	176.206	8770	
24 Fluoranthene	202		14.557	14.557	(1.172)	1836809	675.562	33600	
25 Pyrene	202		15.056	15.057	(0.877)	1358101	505.609	25200	
28 Benzo (a) anthracene	228		17.075	17.075	(0.995)	342216	151.330	7530	
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	339179	200.000		
30 Chrysene	228		17.217	17.217	(1.003)	431601	173.896	8650	
44 Benzo (b) fluoranthene	252		18.967	18.967	(0.945)	273249	120.333	5990	
45 Benzo (k) fluoranthene	252		19.015	19.015	(0.948)	219157	82.8216	4120	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/kg)	
46 Benzo(j) fluoranthene	252	19.082	19.082	(0.951)	162132	67.2622	3350	
34 Benzo(a) pyrene	252	19.851	19.851	(0.989)	121716	55.5400	2760	
* 35 Perylene-d12	264	20.062	20.062	(1.000)	335158	200.000		
\$ 36 Dibenzo(a,h) anthracene-d14	292	22.529	22.529	(1.123)	251206	185.700	9240	
37 Indeno(1,2,3-cd) pyrene	276	22.662	22.662	(1.130)	32565	14.1525	704	
38 Dibenzo(a,h) anthracene	278	Compound Not Detected.						
39 Benzo(g,h,i) perylene	276	23.813	23.814	(1.187)	39607	19.8281	986	
47 Perylene	252	20.130	20.130	(1.003)	79994	35.2076	1750	
48 Benzo(e) pyrene	252	19.736	19.736	(0.984)	241993	105.448	5250	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012217.D
 Lab Smp Id: ATSOE
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-139

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-SMA2-5-MUS-C
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	384886	17.38
11 Acenaphthene-d10	239179	119590	478358	273475	14.34
18 Phenanthrene-d10	372253	186127	744506	449495	20.75
29 Chrysene-d12	294711	147356	589422	339179	15.09
35 Perylene-d12	260595	130298	521190	335158	28.61

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.73	-0.16
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	-0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	-0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	-0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

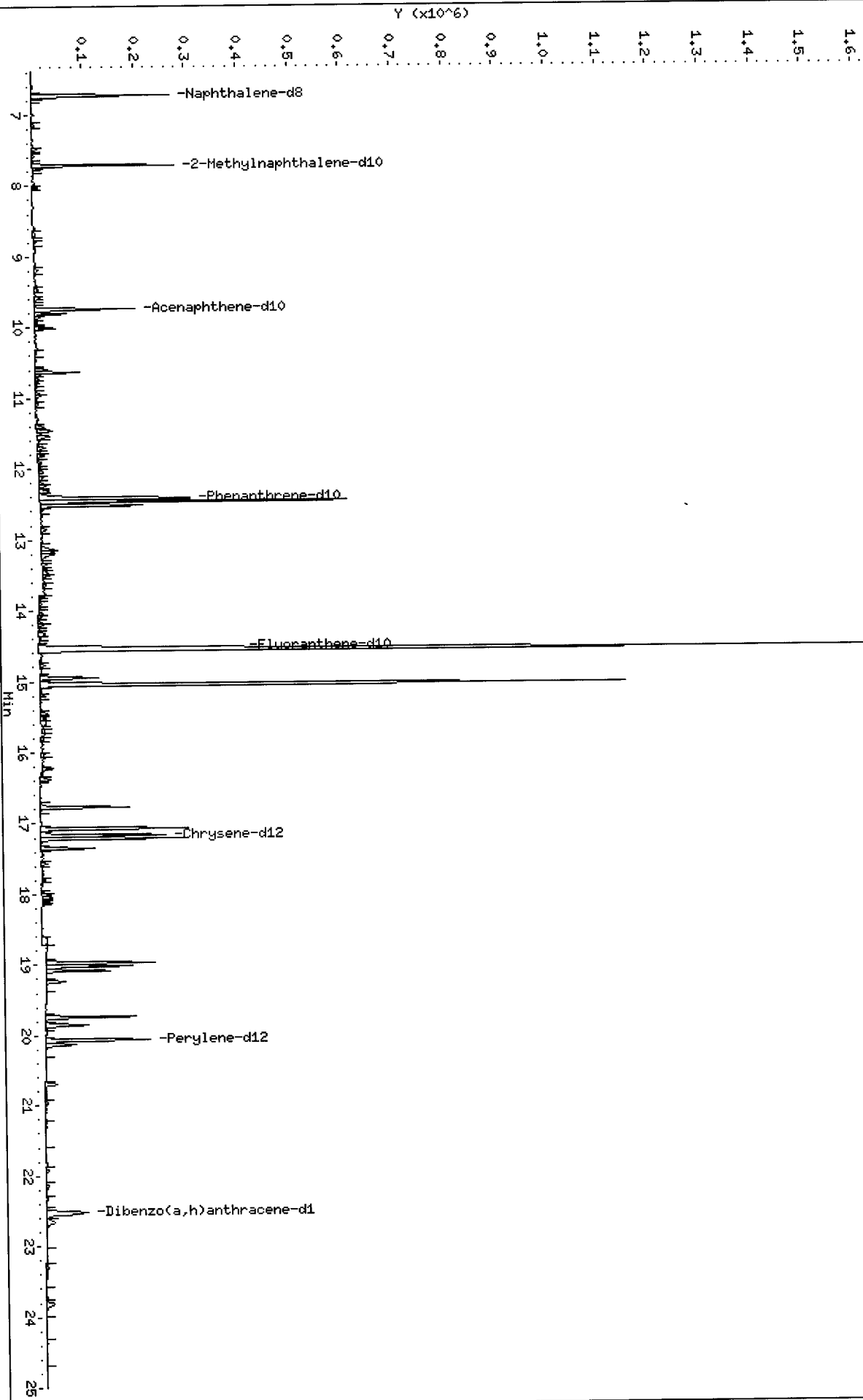
RECOVERY REPORT

Client Name: Anchor QEA, LLC
Sample Matrix: SOLID
Lab Smp Id: ATSOE
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: PEMD.sub
Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
Misc Info: 16-139

Client SDG: ATSO
Fraction: SV
Client Smp ID: PG-SMA2-5-MUS-COC-1
Operator: JW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	14900	7430	49.81	30-160
\$ 23 Fluoranthene-d10	14900	8770	58.74	30-160
\$ 36 Dibenzo(a,h) anthra	14900	9240	61.90	30-160

\\target\share\chem3\ntf11,1\20160122,16\16012217.D



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

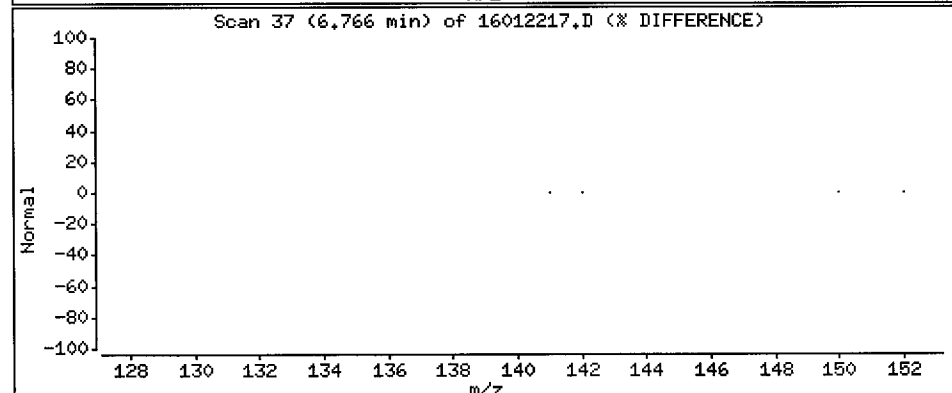
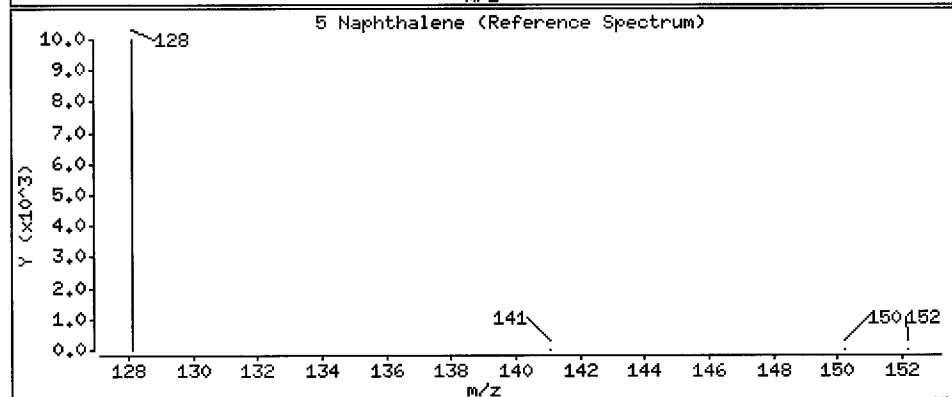
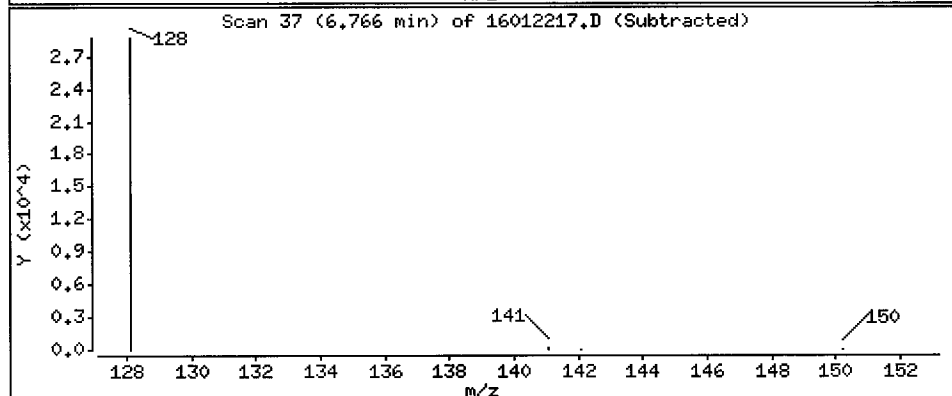
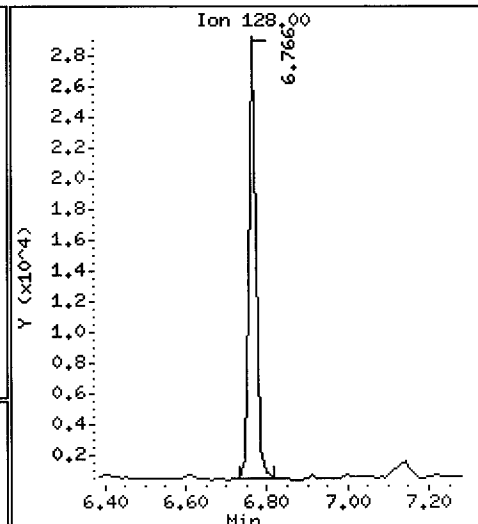
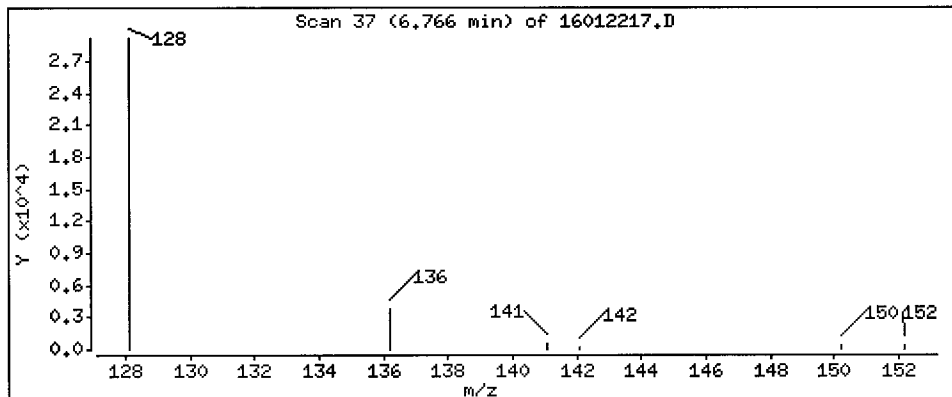
Operator: JH

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 844 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

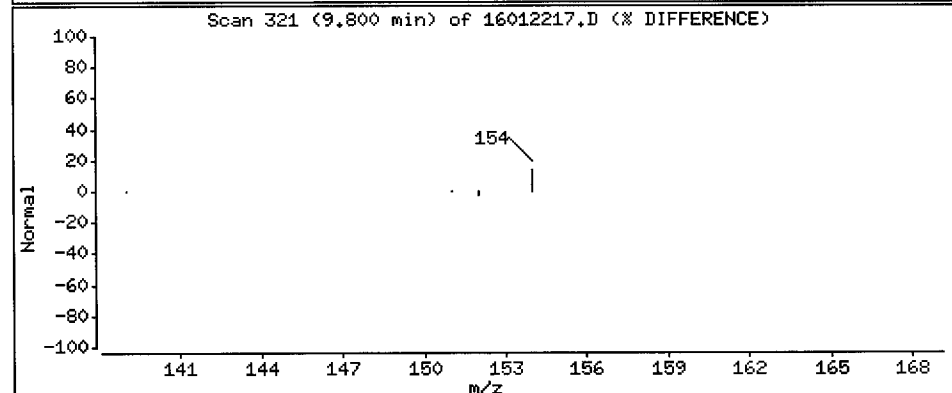
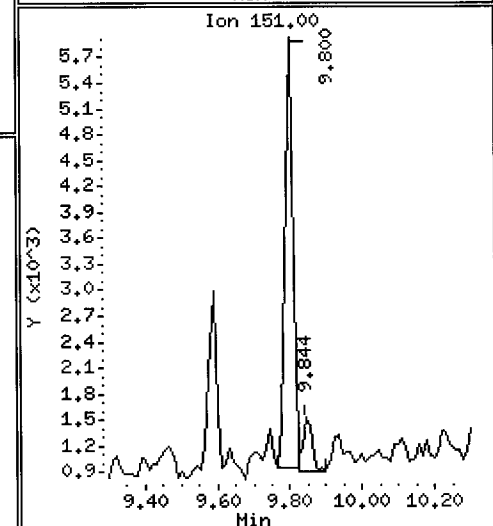
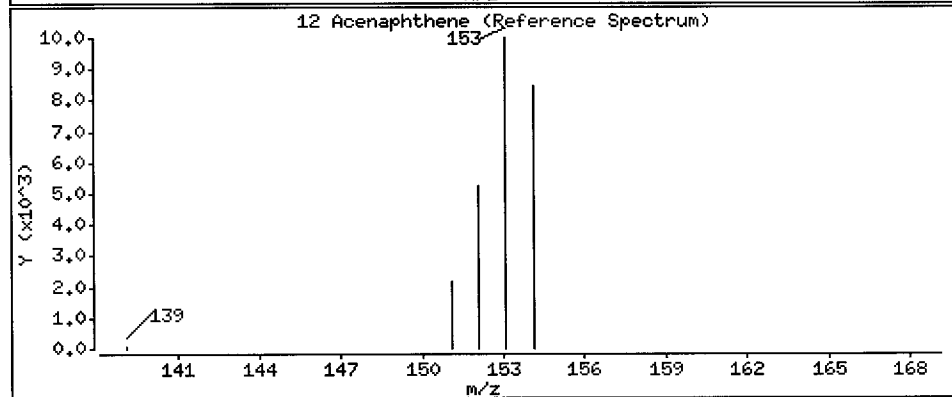
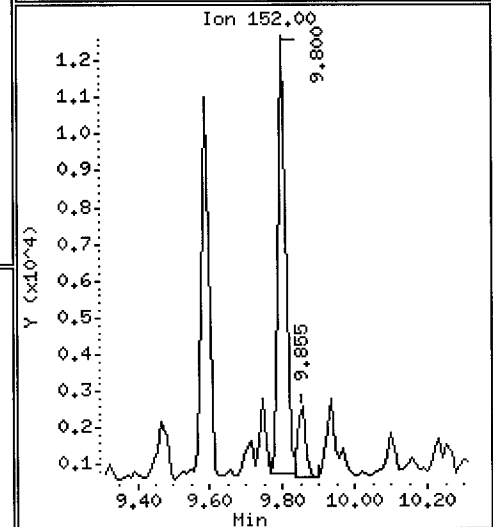
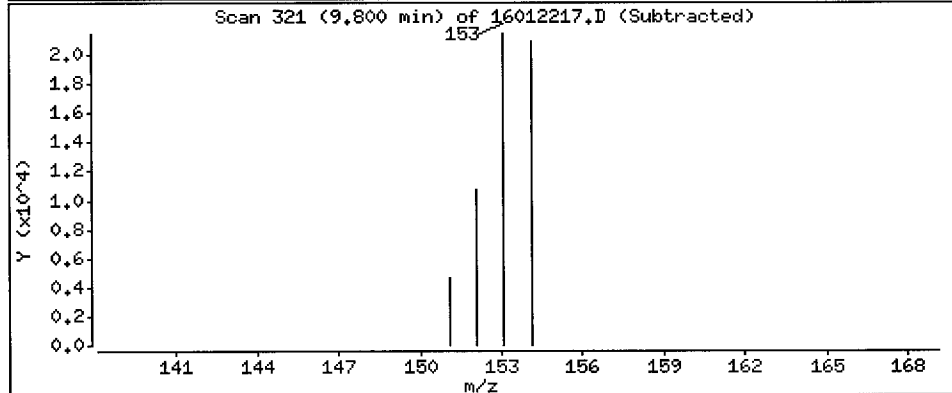
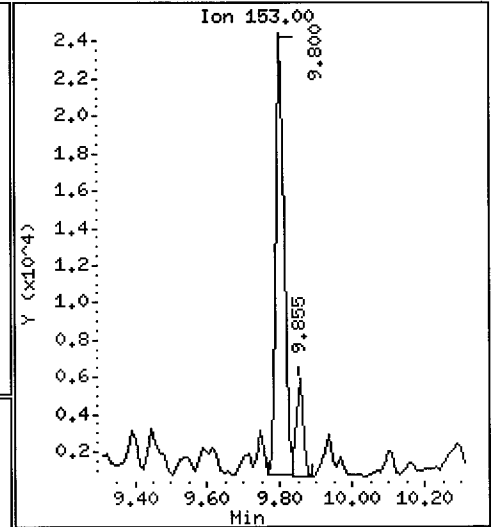
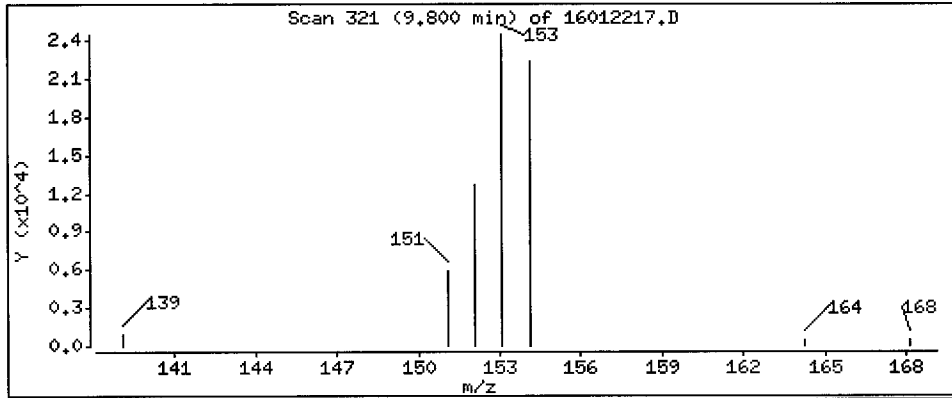
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

12 Acenaphthene

Concentration: 1220 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

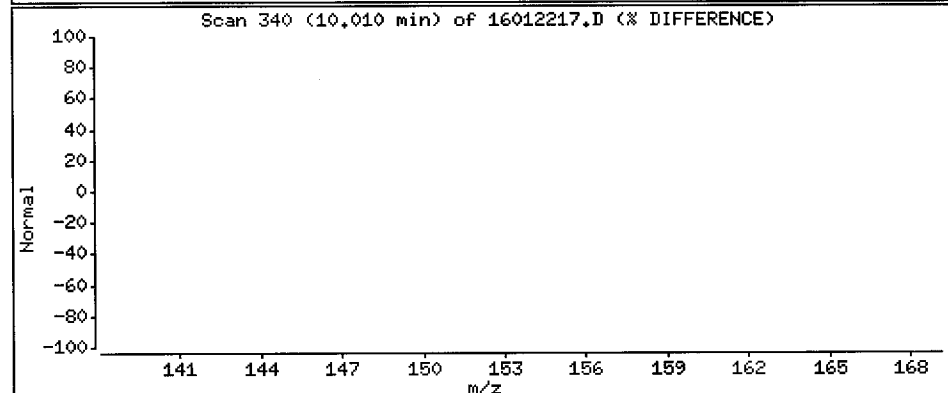
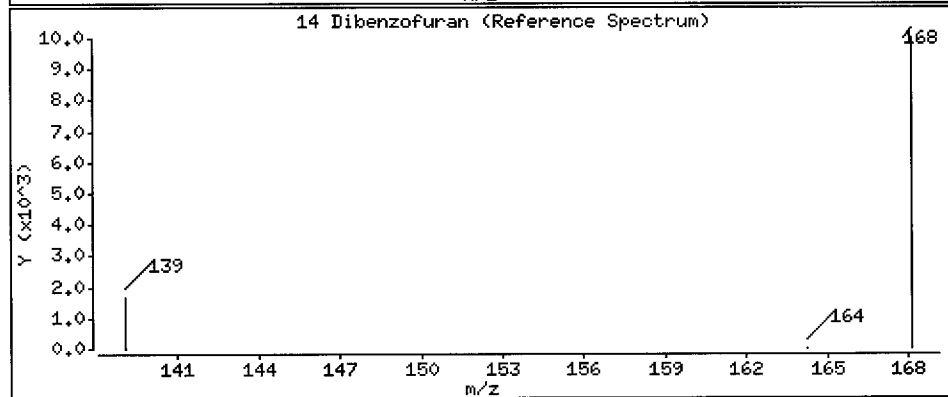
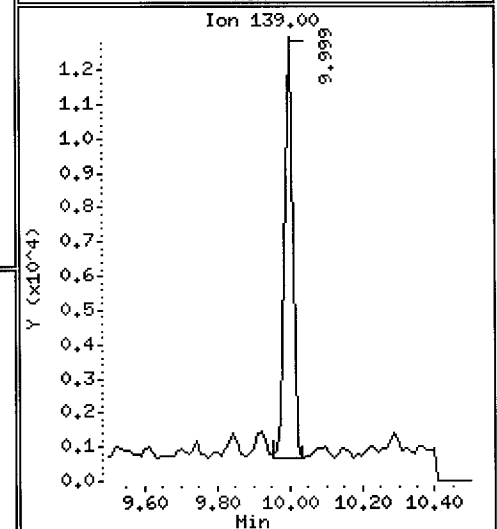
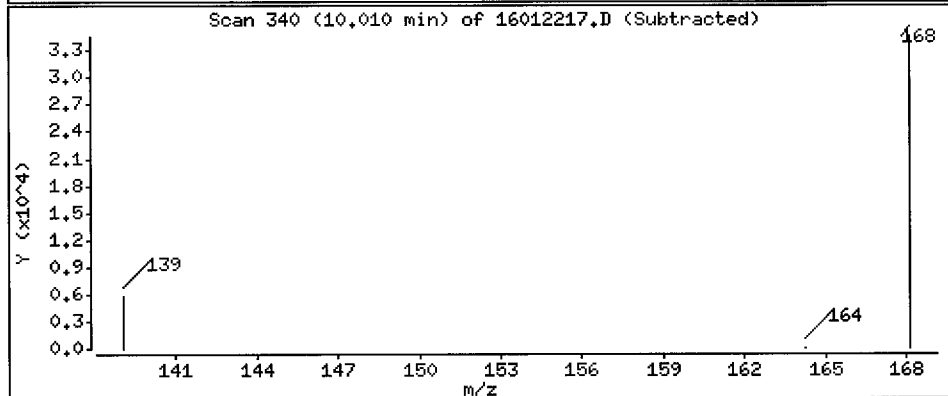
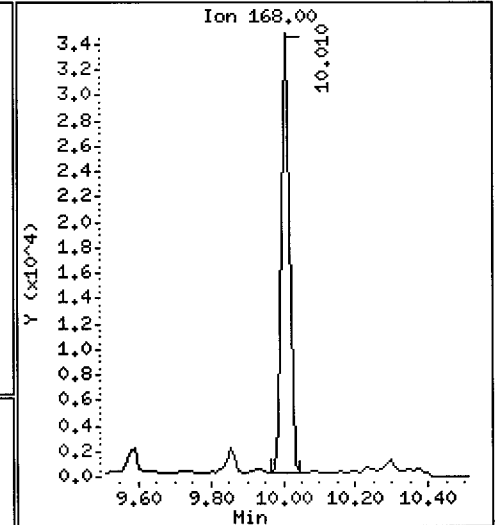
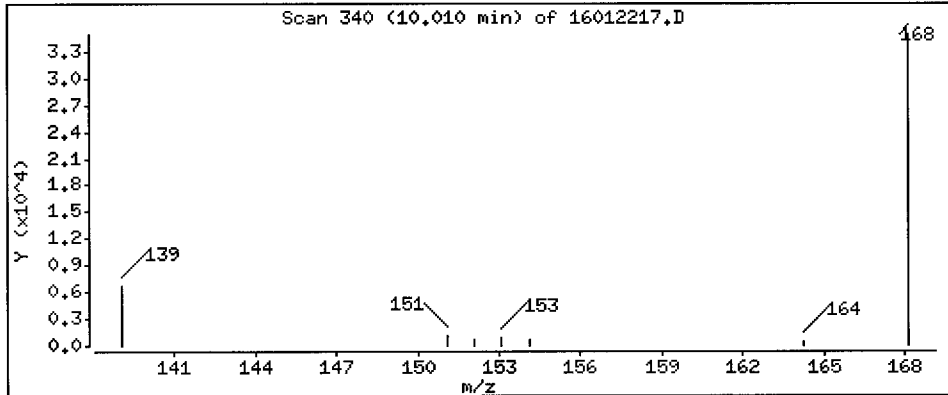
Operator: JM

Column phase: Rxi-17Si1 MS

Column diameter: 0.25

14 Dibenzofuran

Concentration: 1080 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

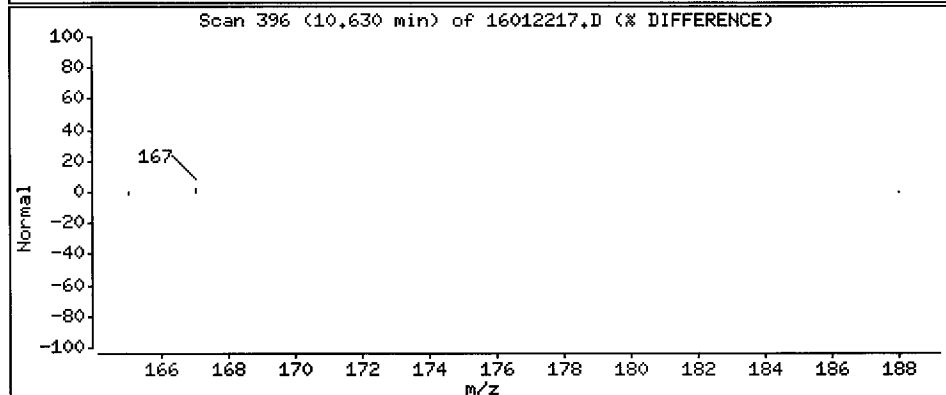
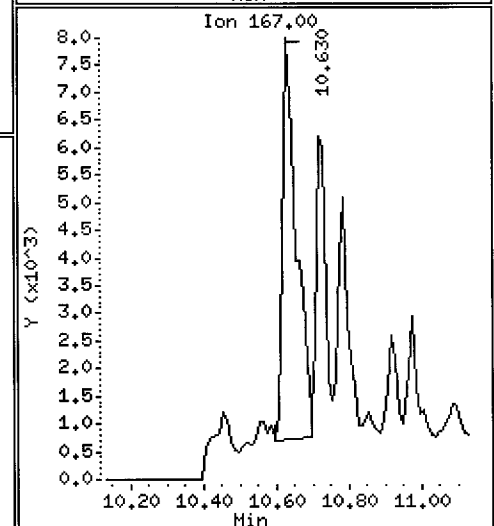
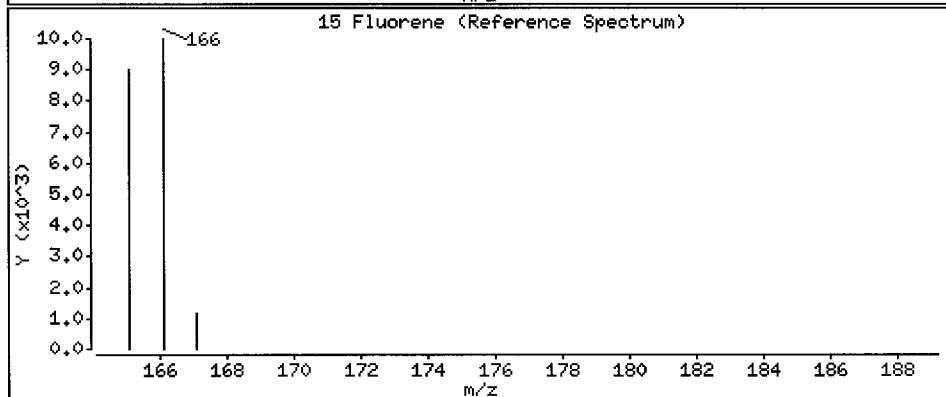
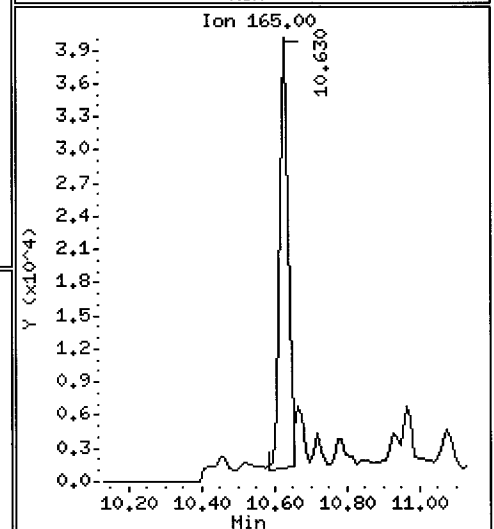
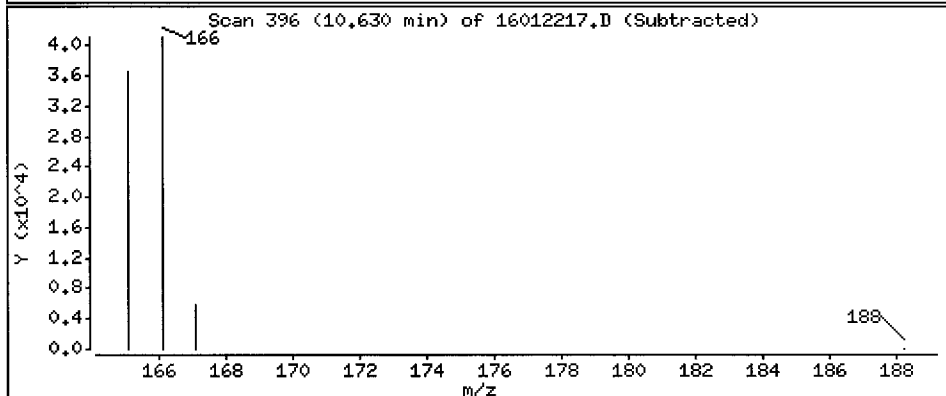
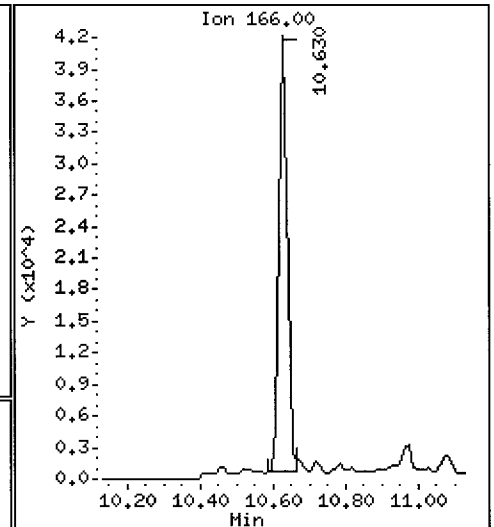
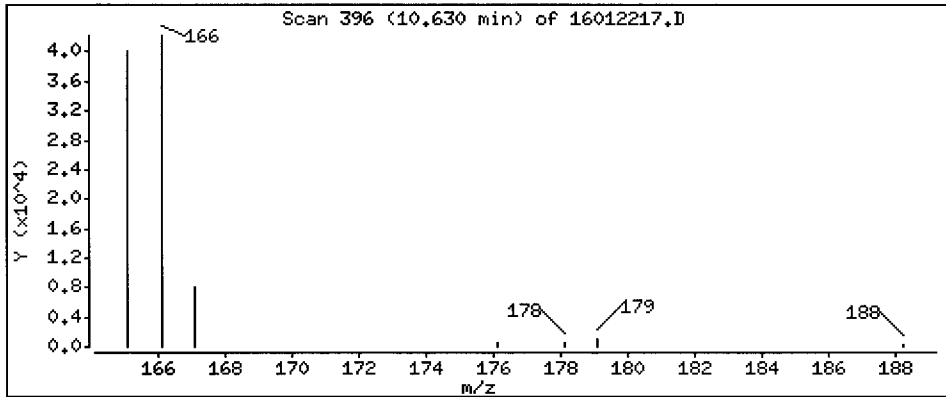
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

15 Fluorene

Concentration: 1800 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-HUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

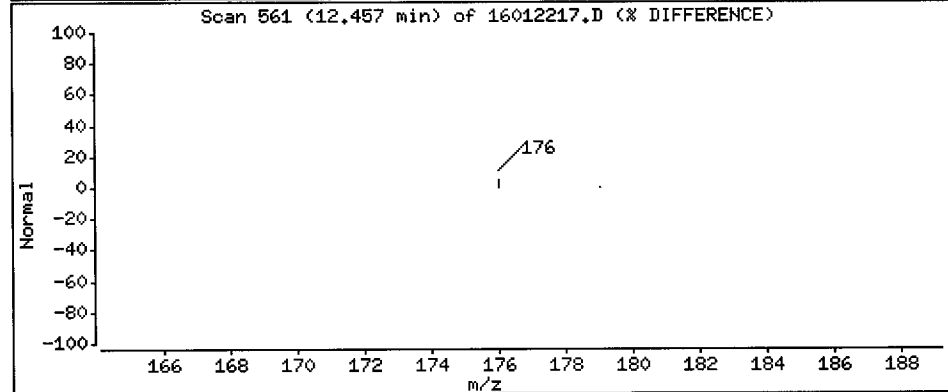
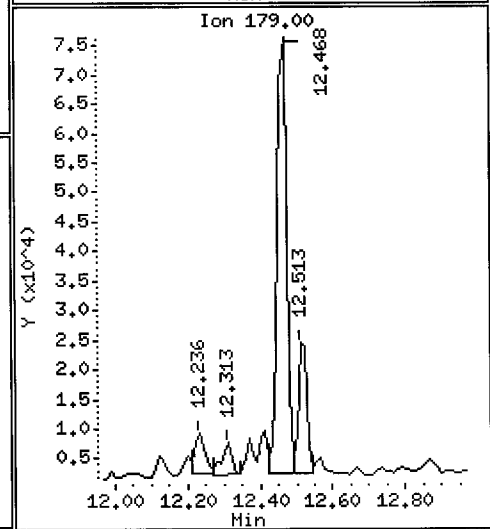
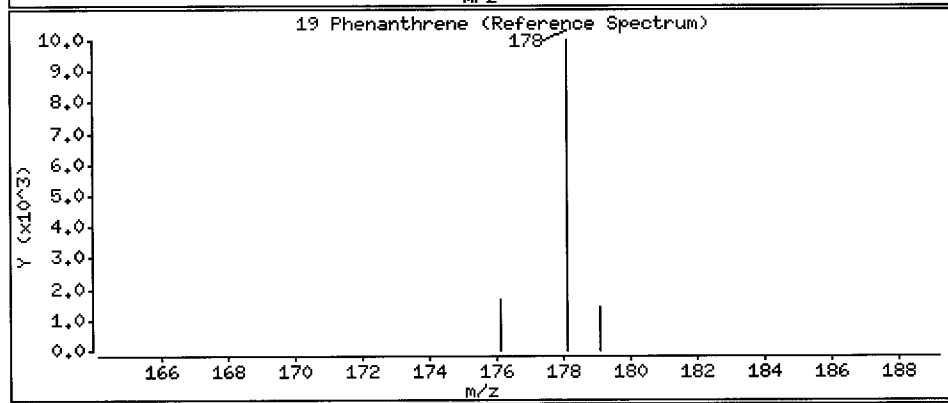
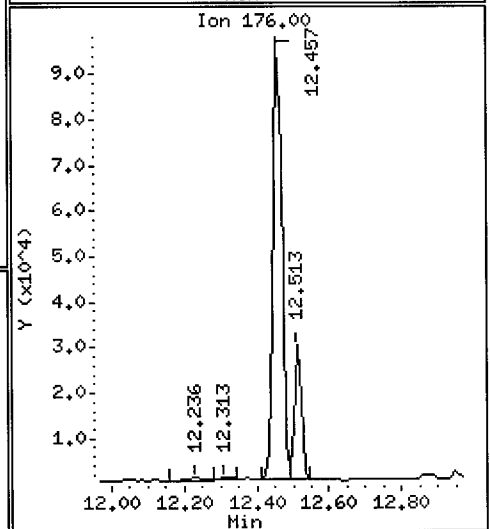
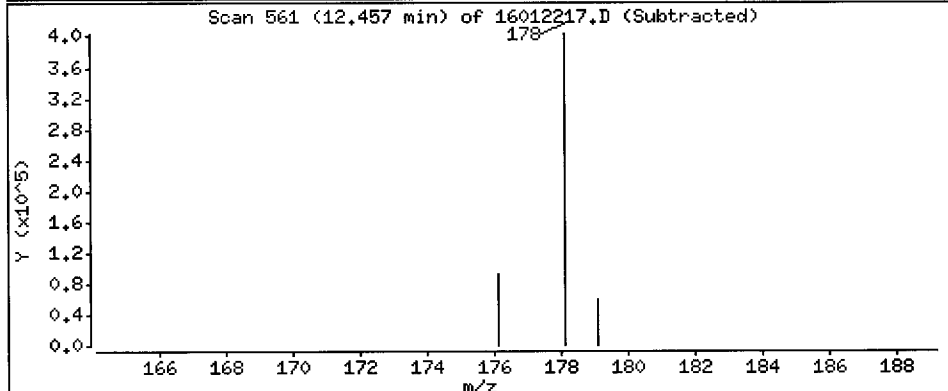
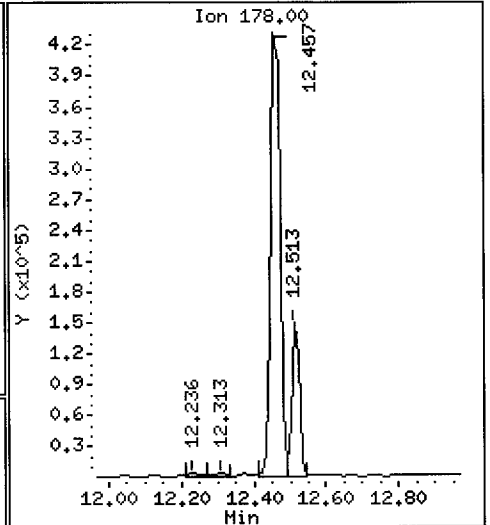
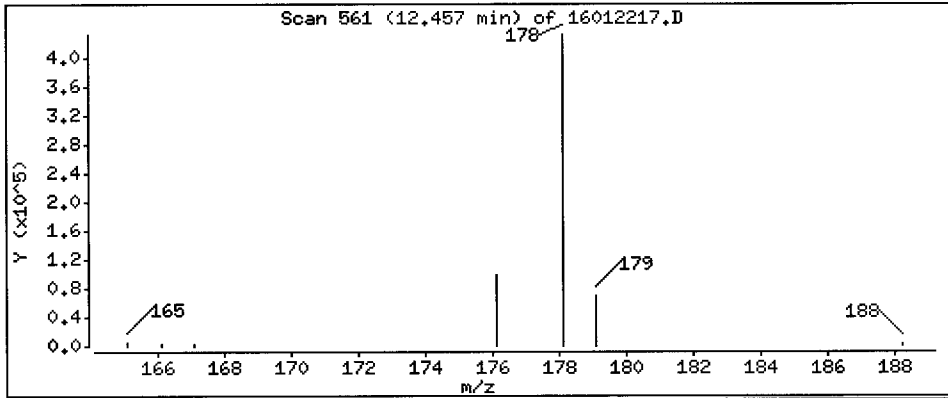
Operator: JW

Column phase: Rxi-17811 MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 13100 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

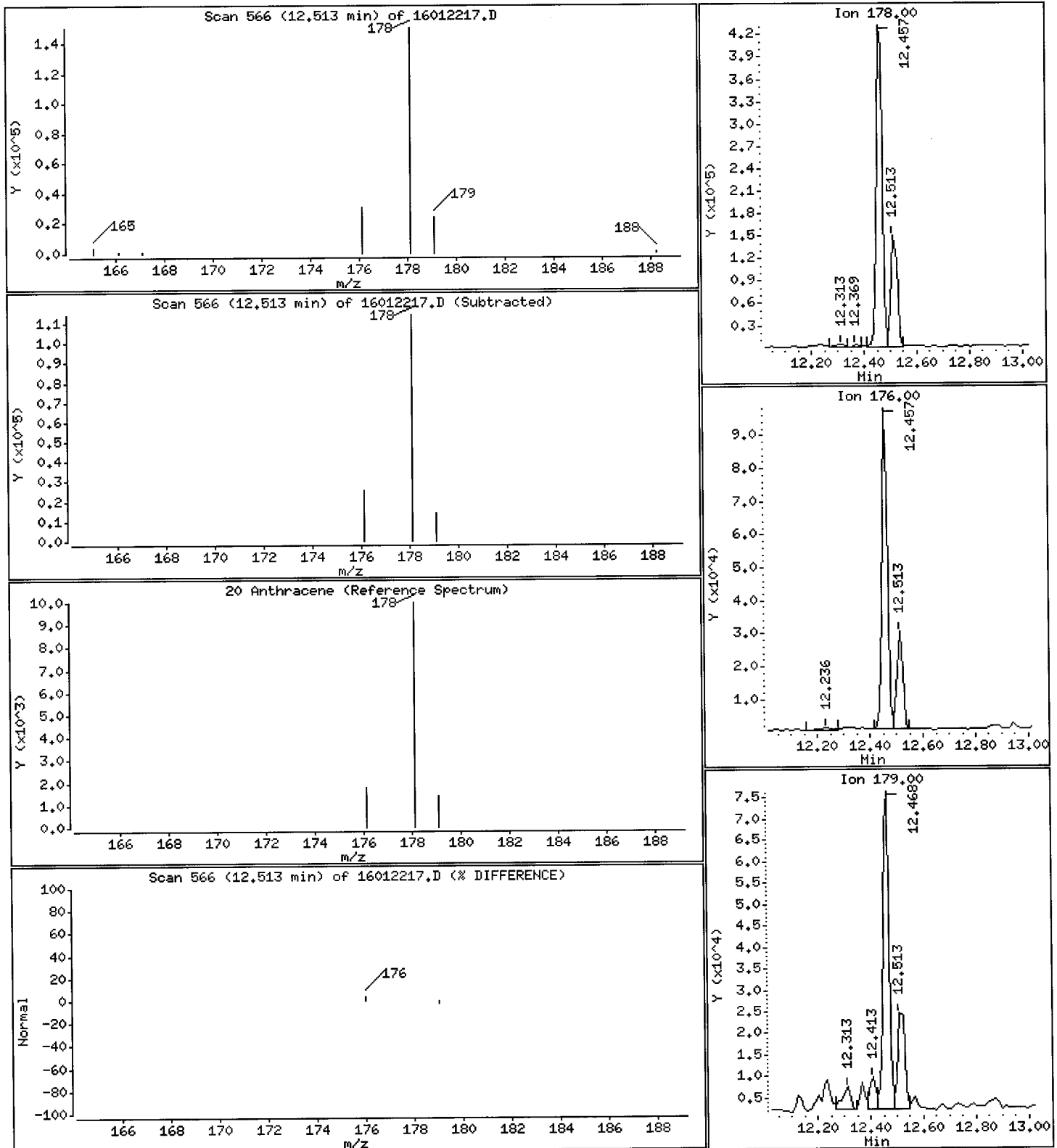
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

20 Anthracene

Concentration: 4690 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

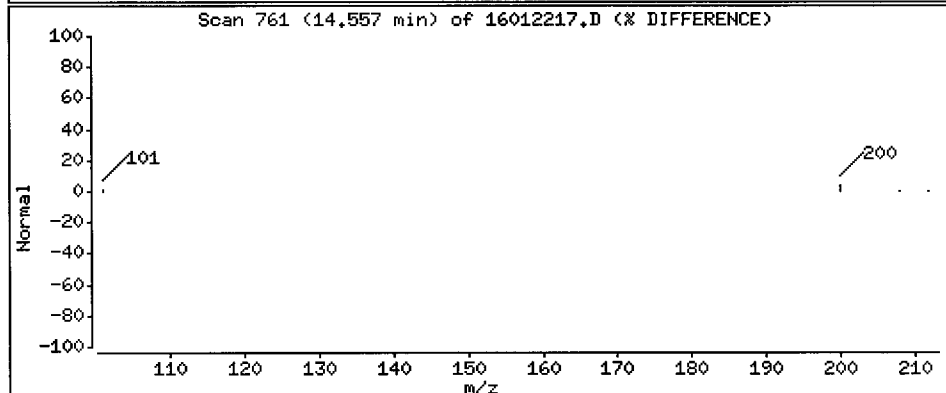
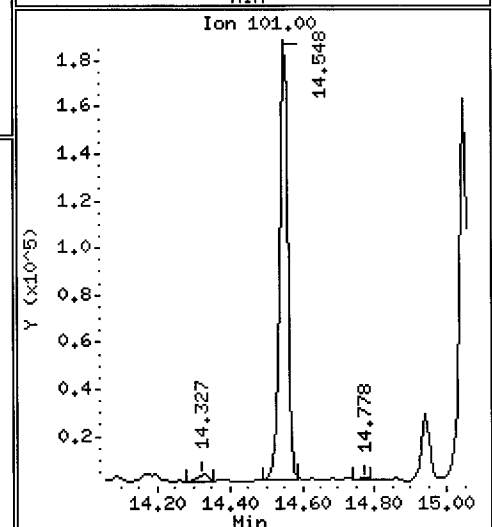
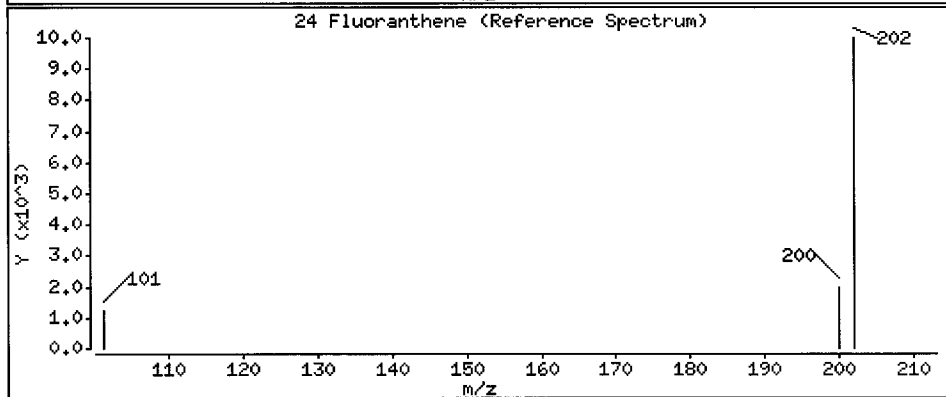
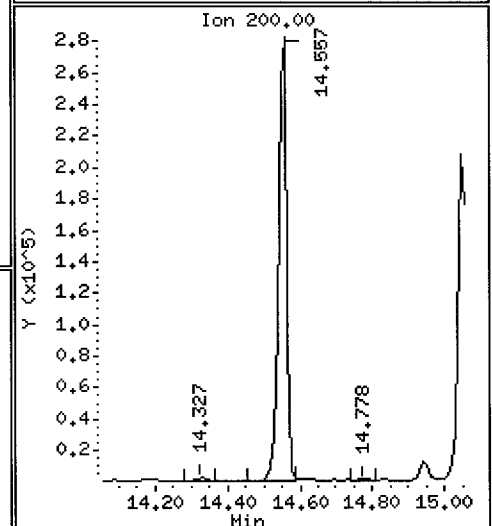
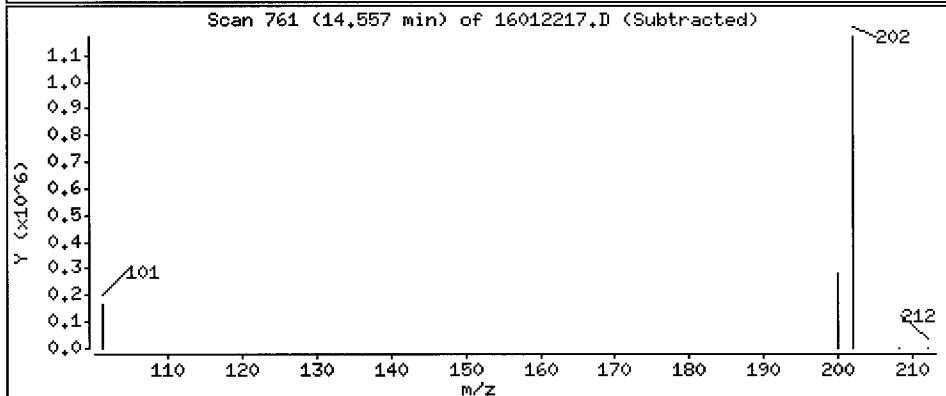
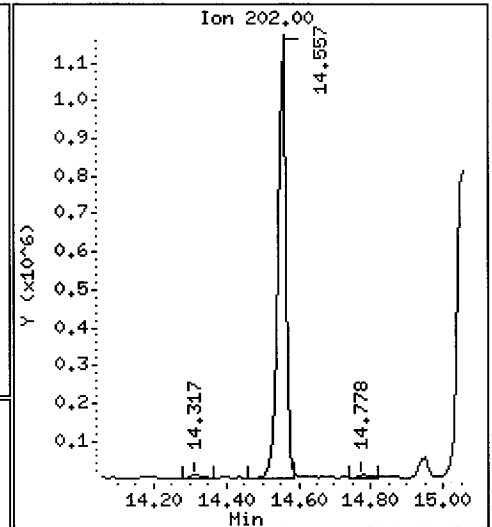
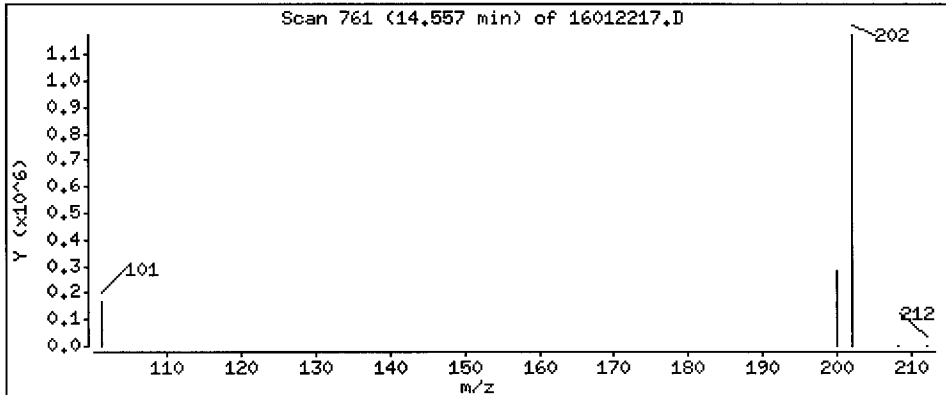
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 33600 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

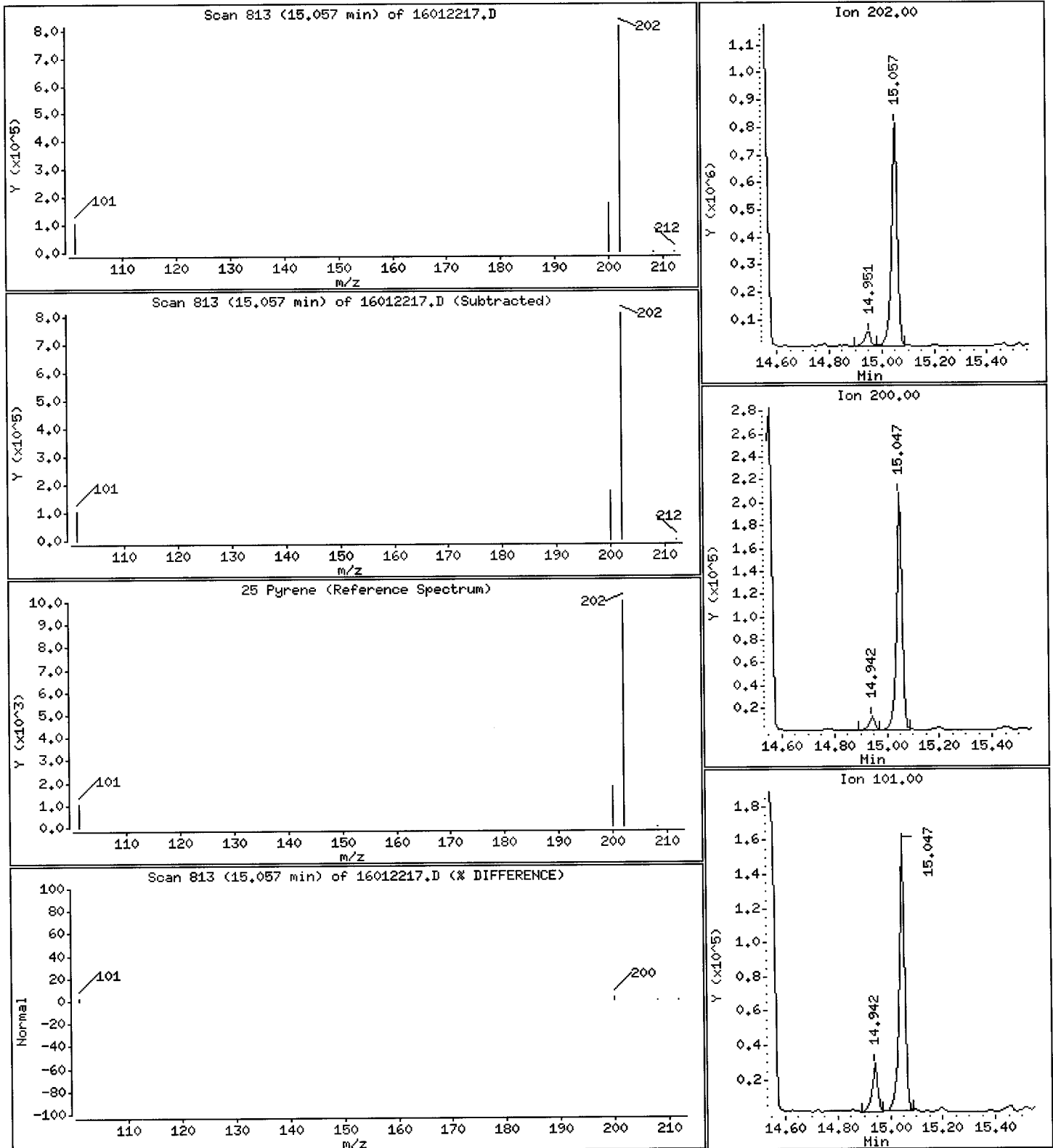
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 25200 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

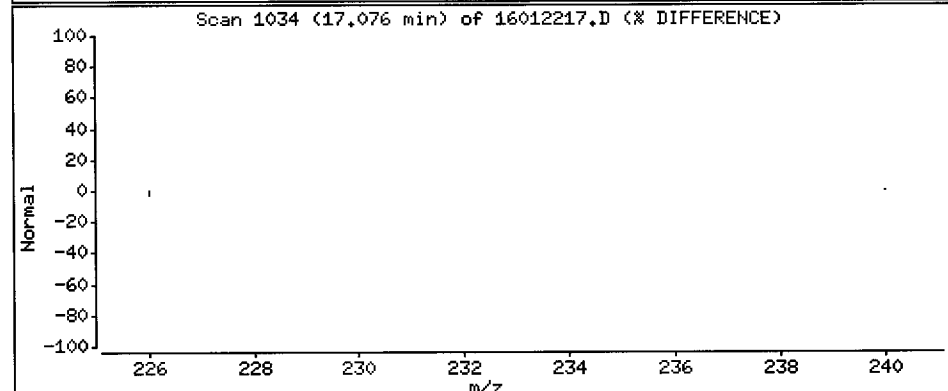
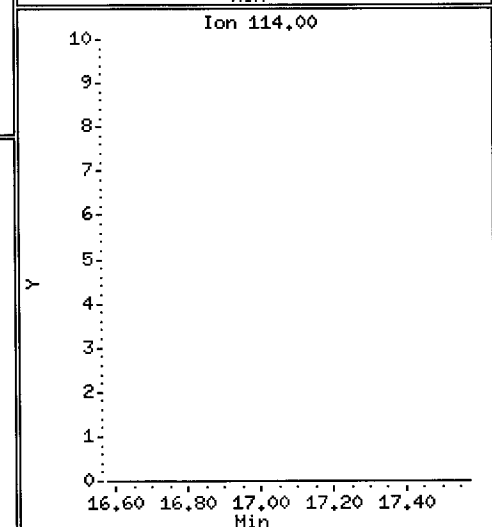
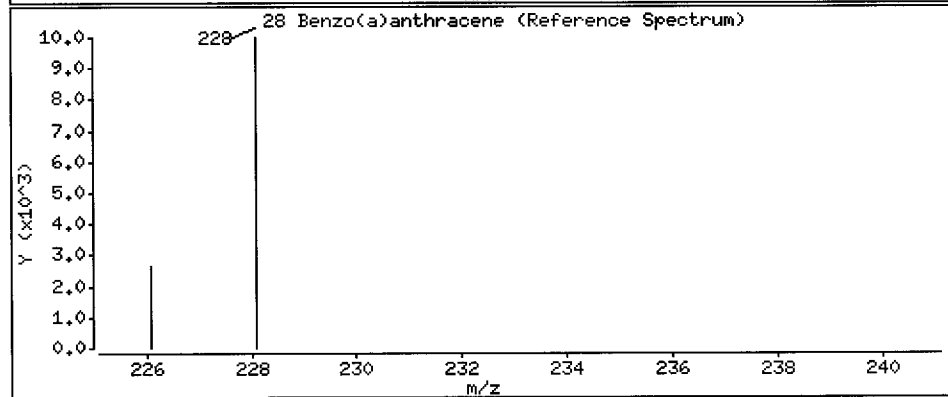
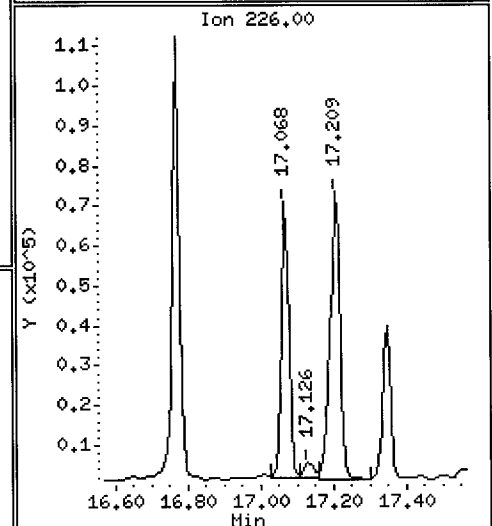
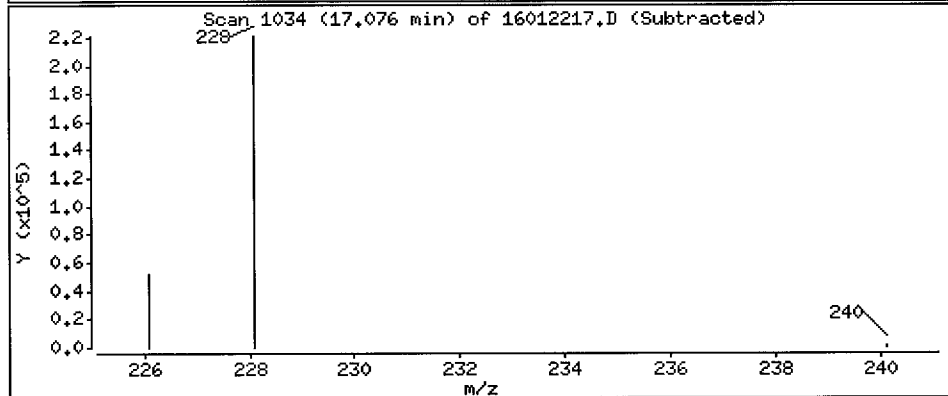
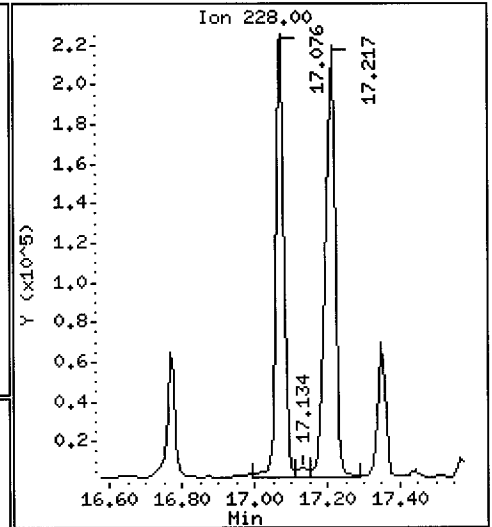
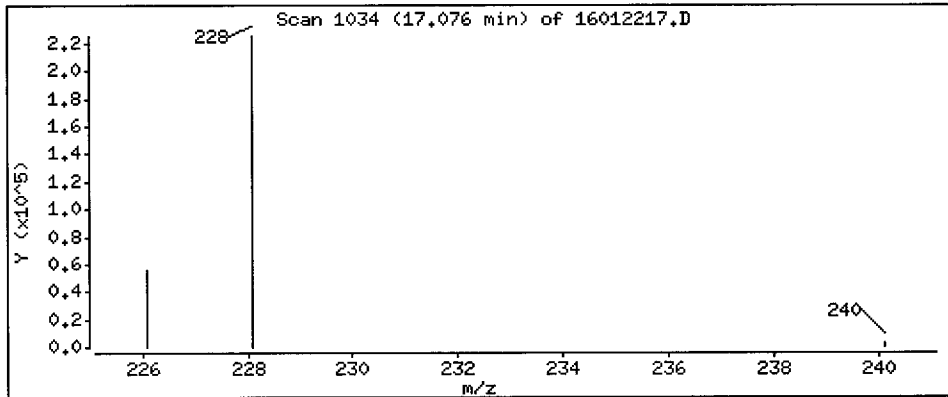
Operator: JW

Column phase: Rxi-17Si1 MS

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 7530 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

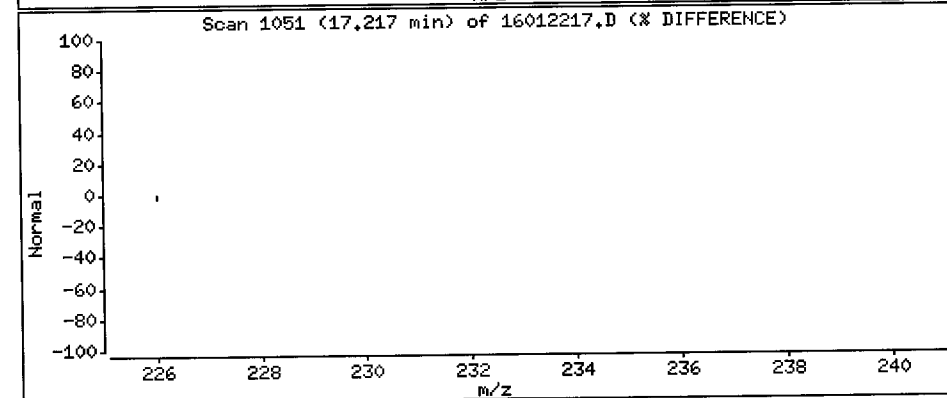
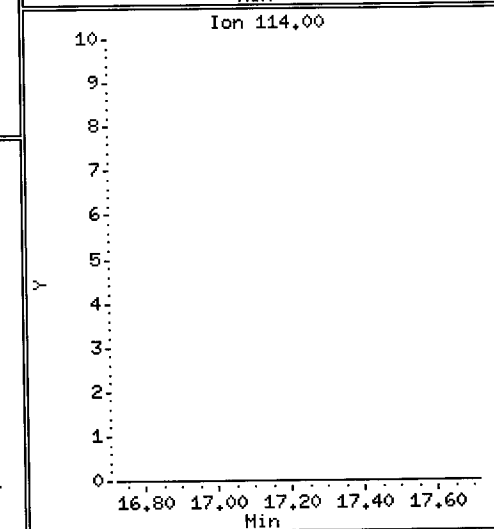
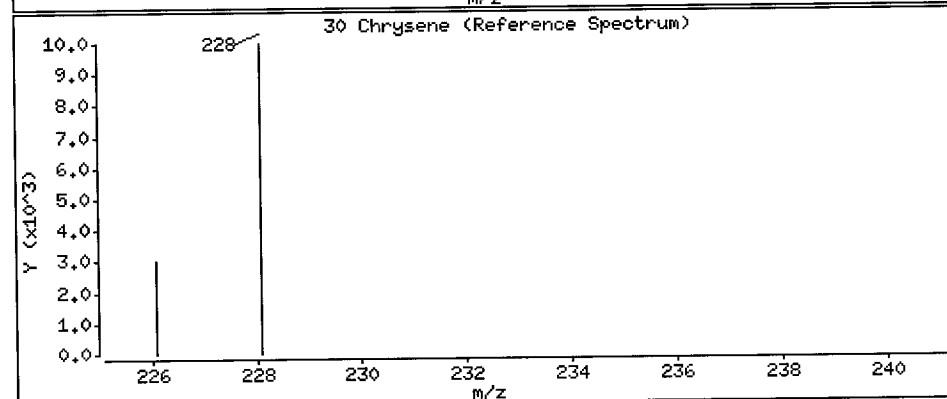
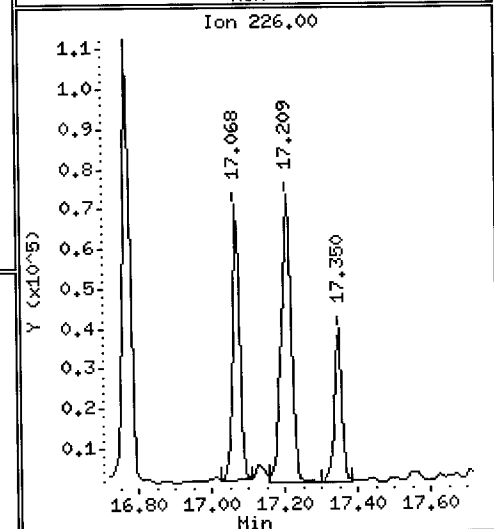
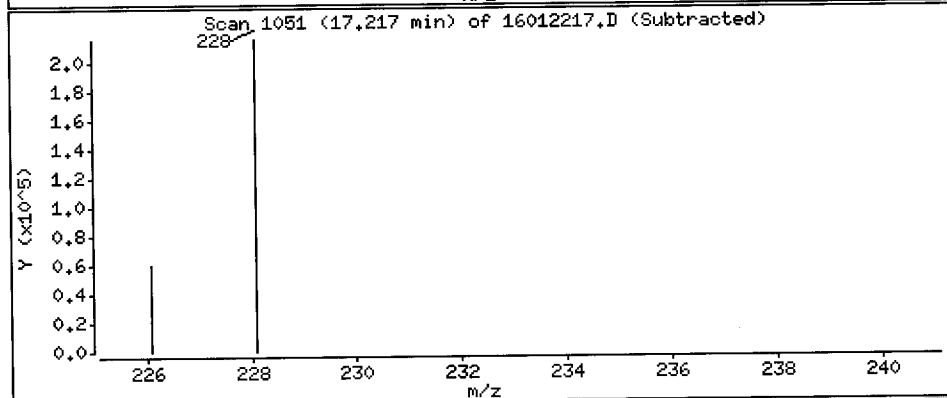
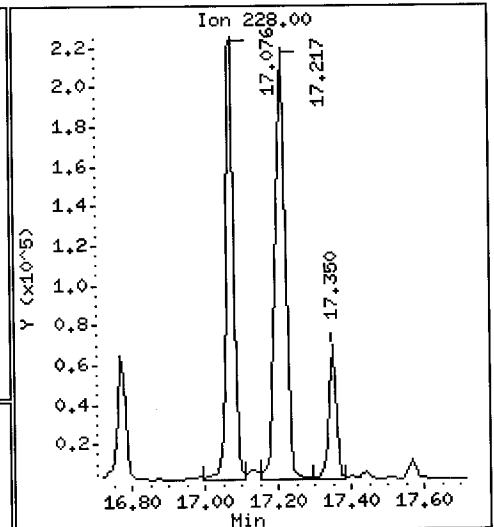
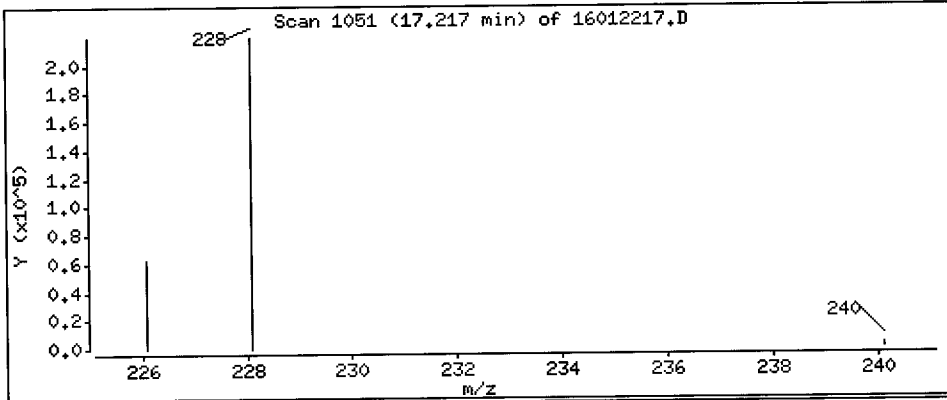
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

30 Chrysene

Concentration: 8650 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

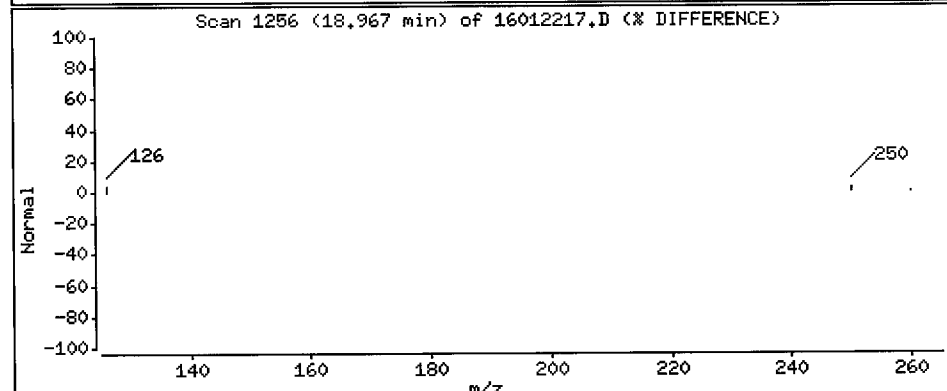
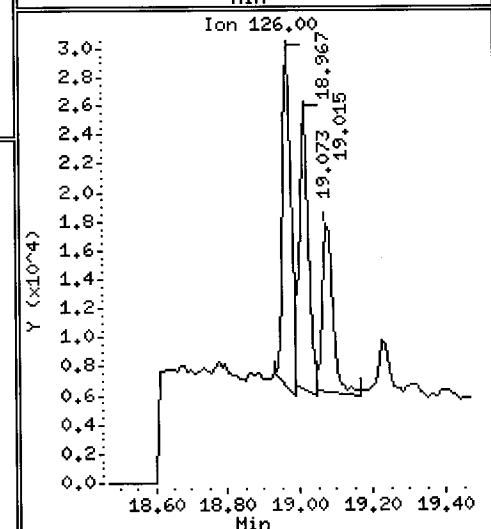
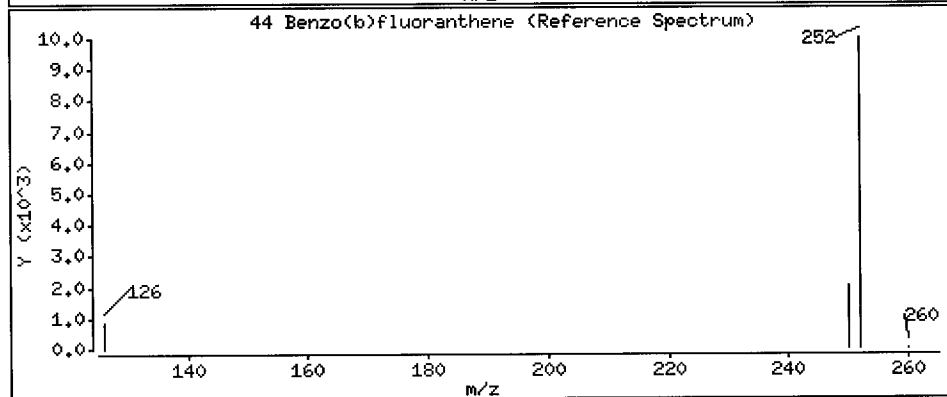
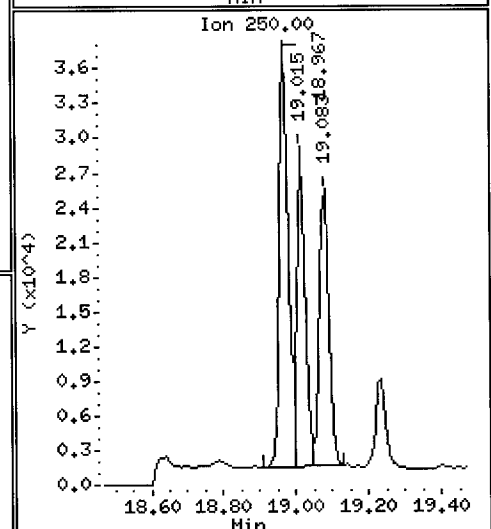
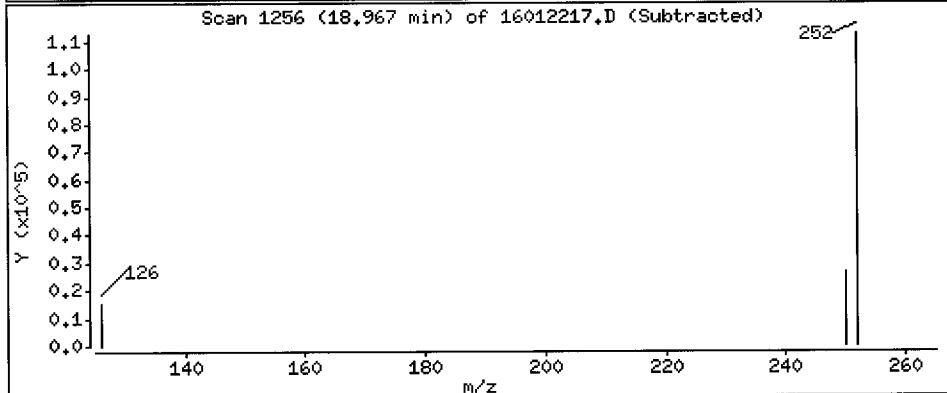
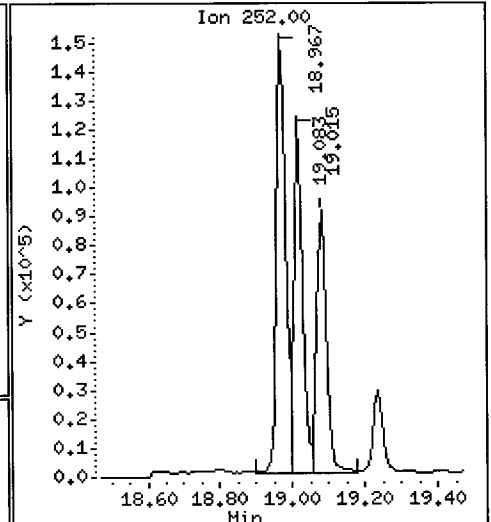
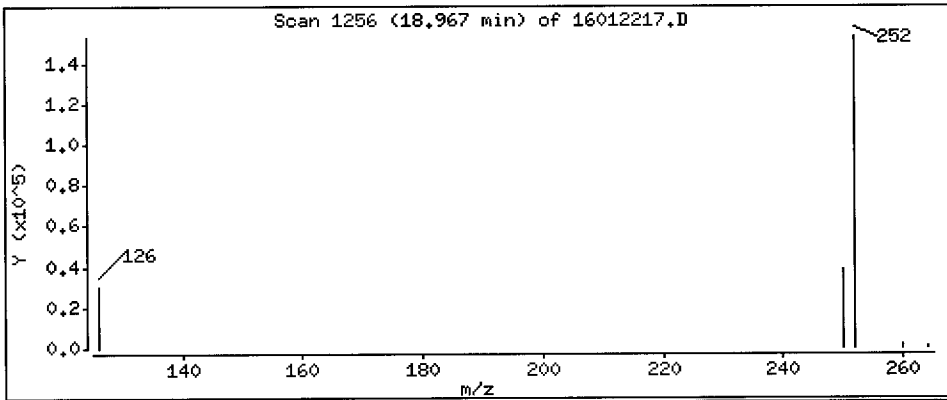
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 5990 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

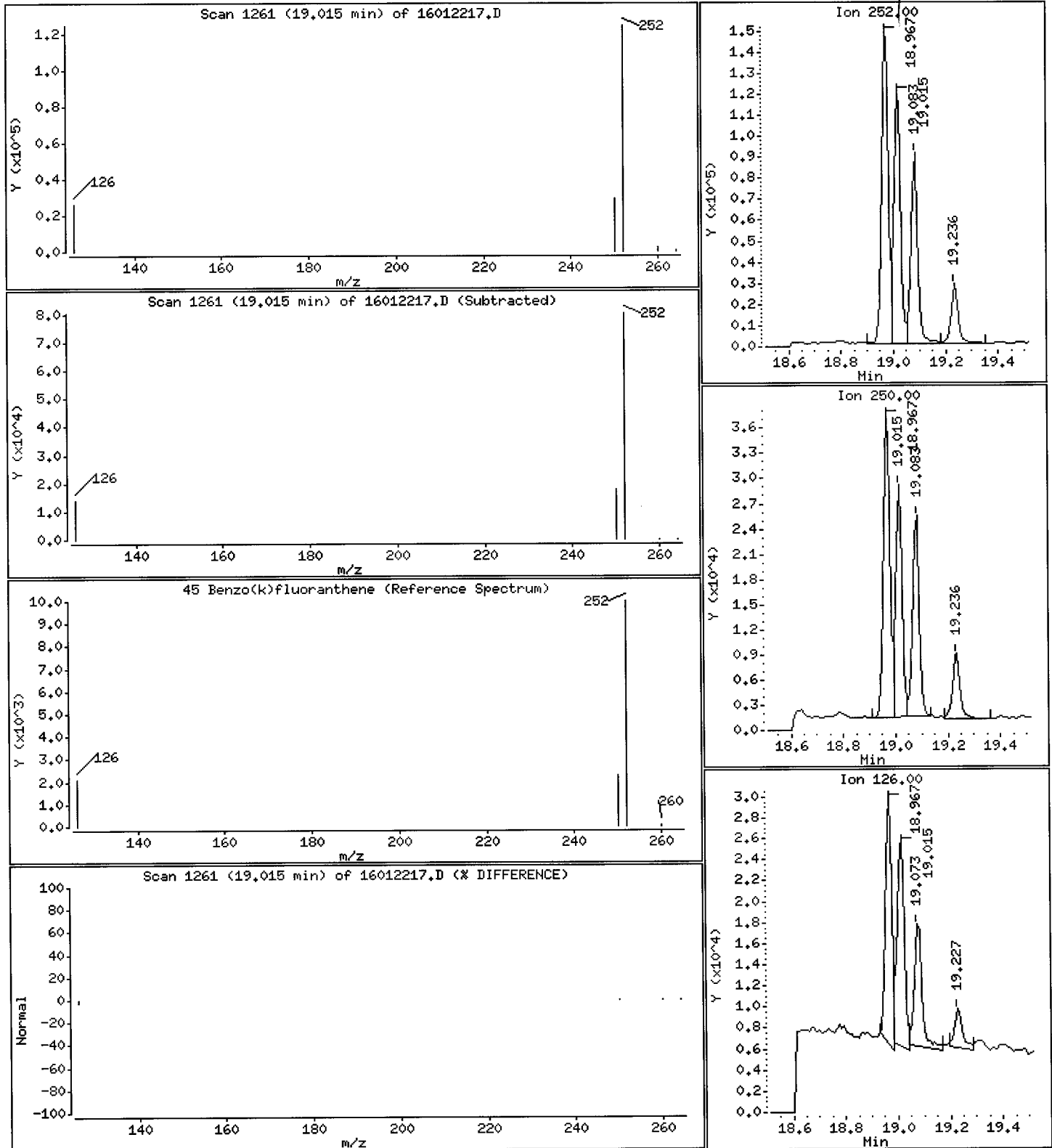
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 4120 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

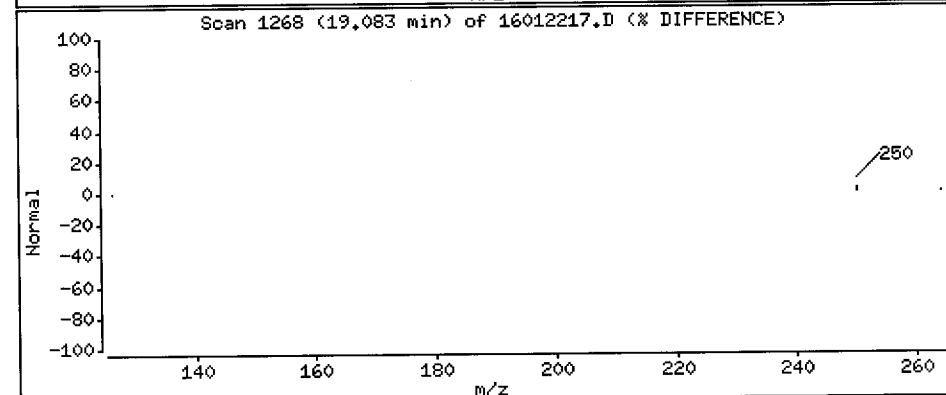
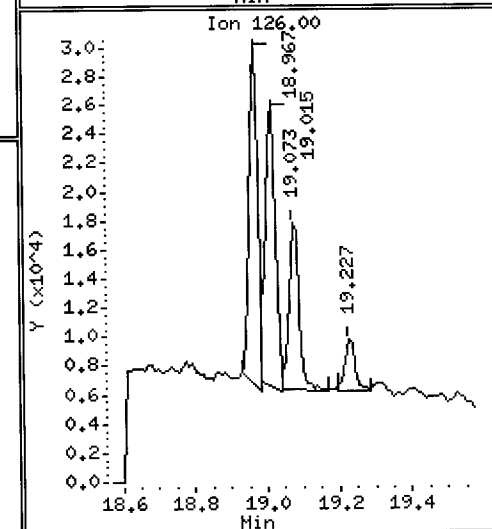
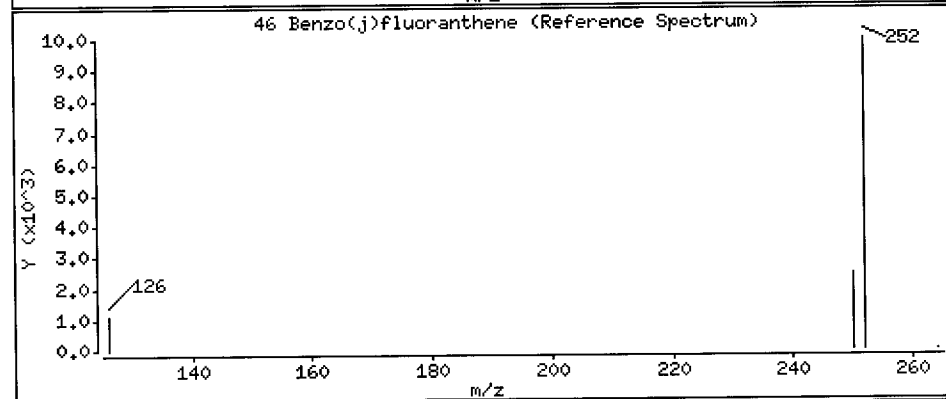
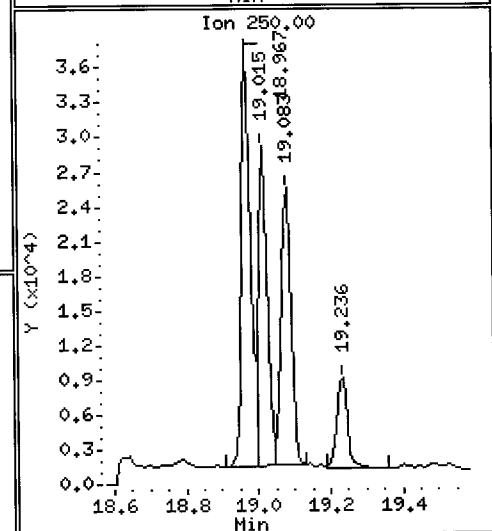
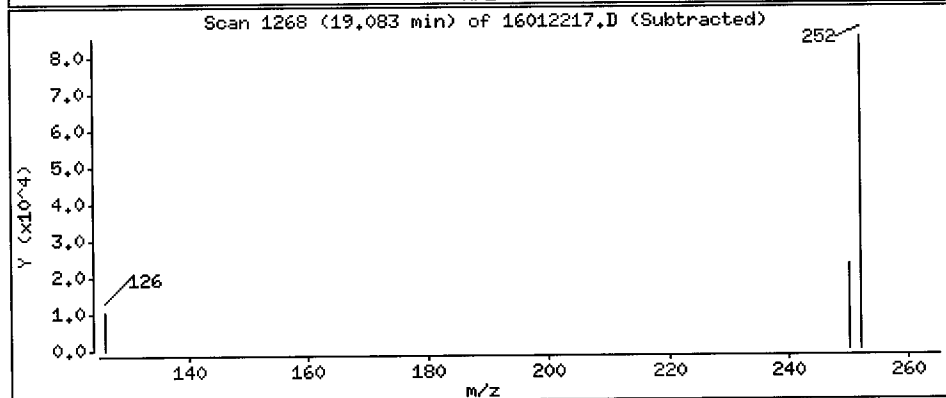
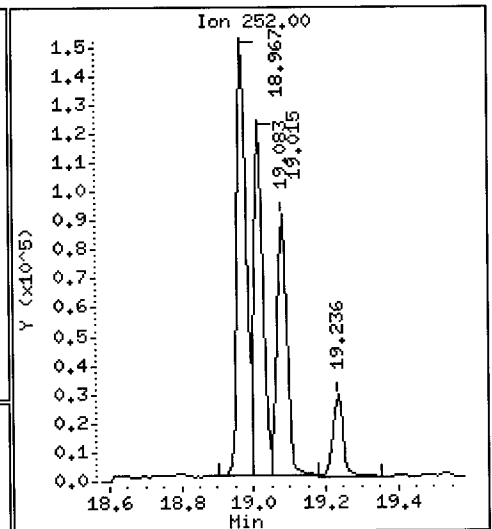
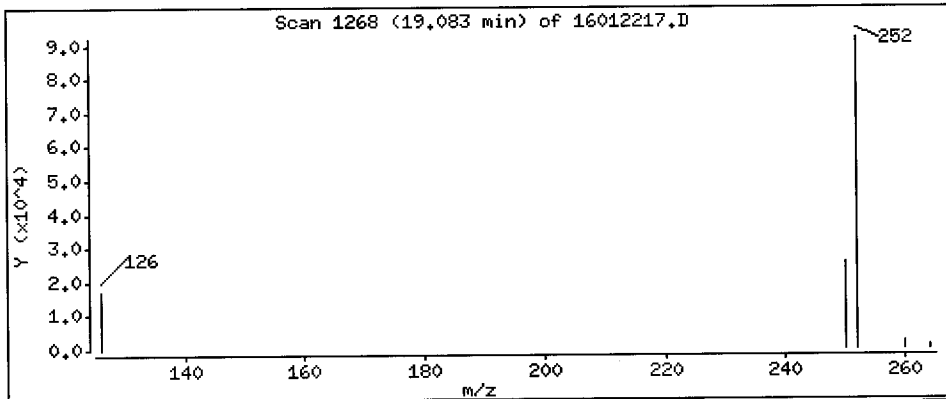
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 3350 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

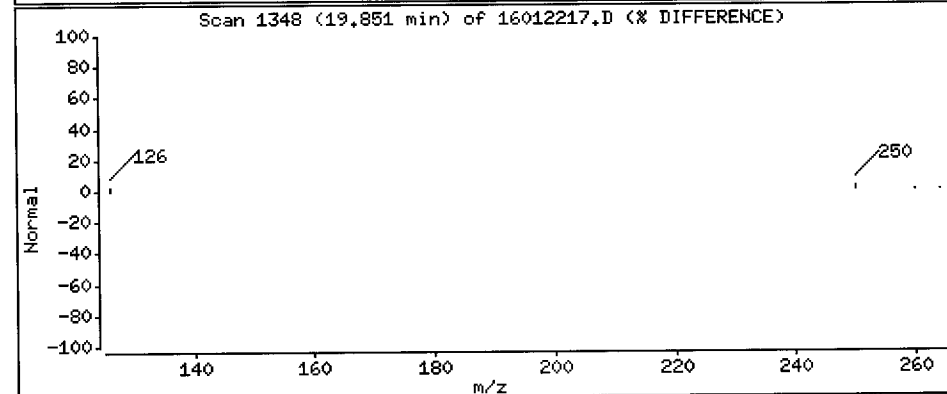
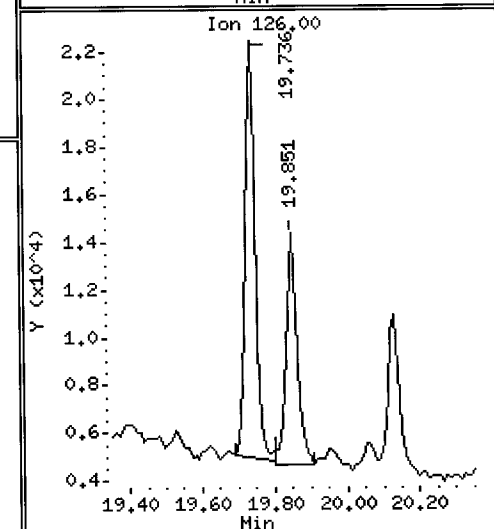
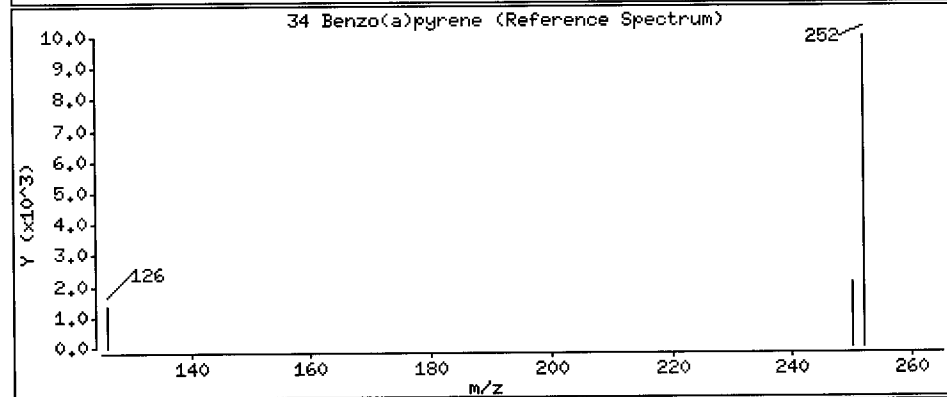
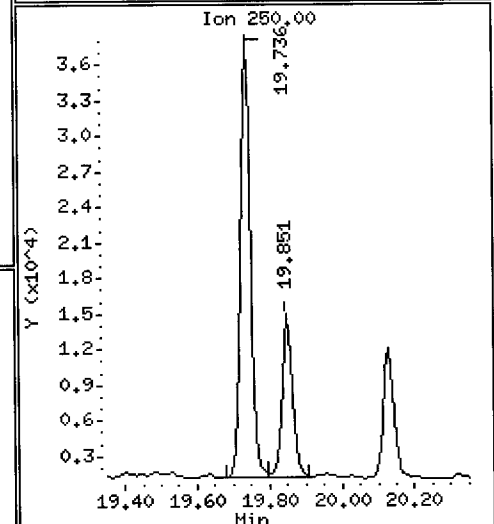
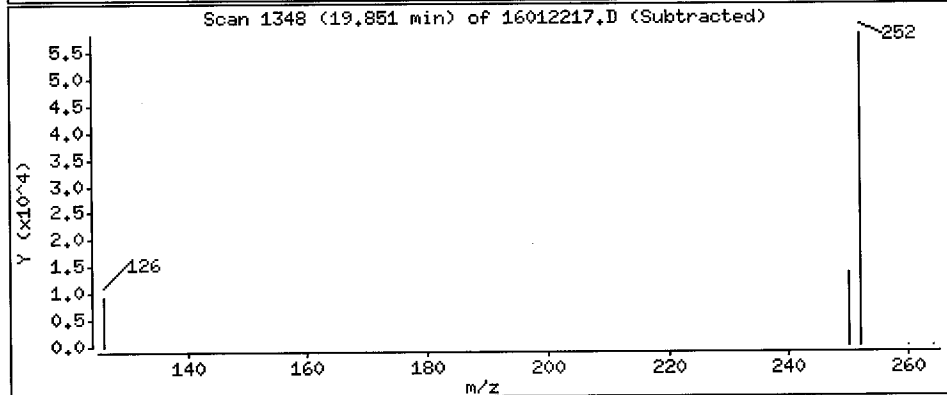
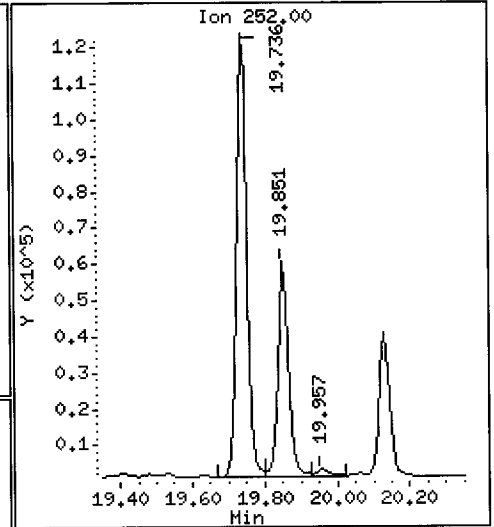
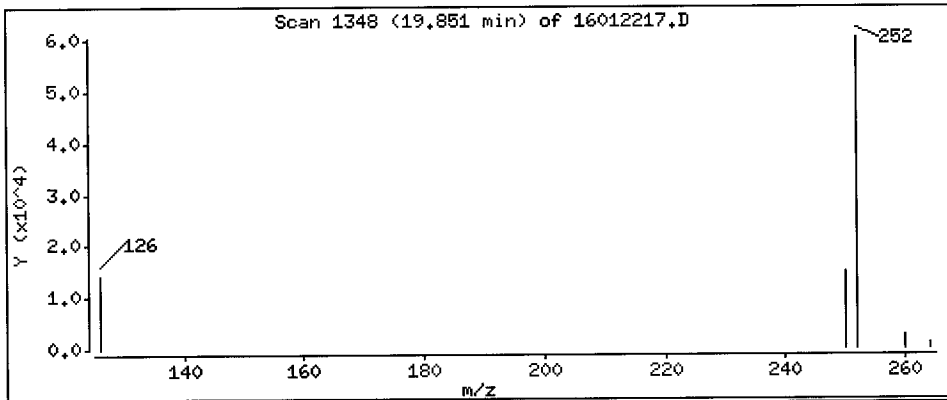
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 2760 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

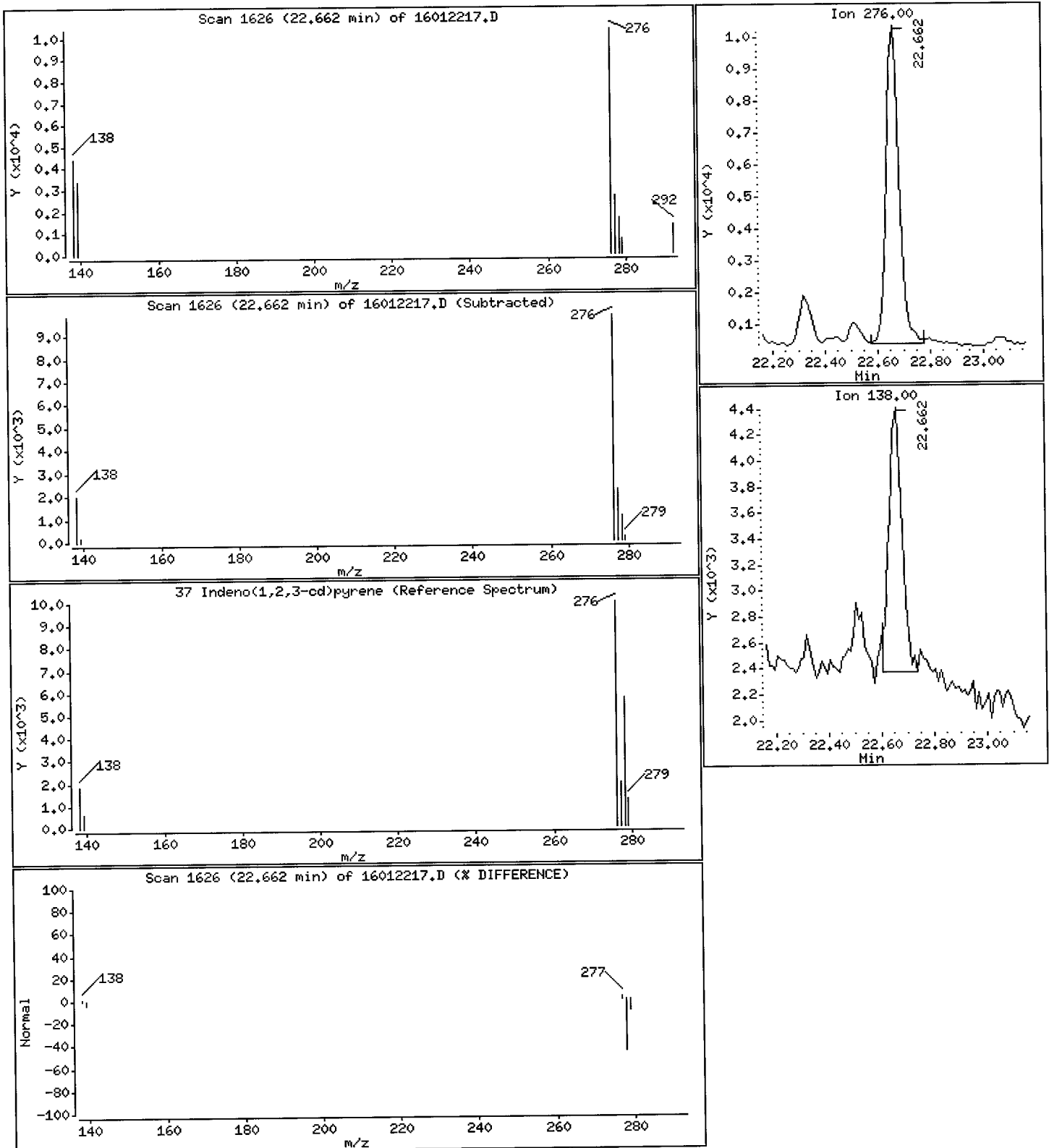
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

37 Indeno(1,2,3-cd)pyrene

Concentration: 704 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

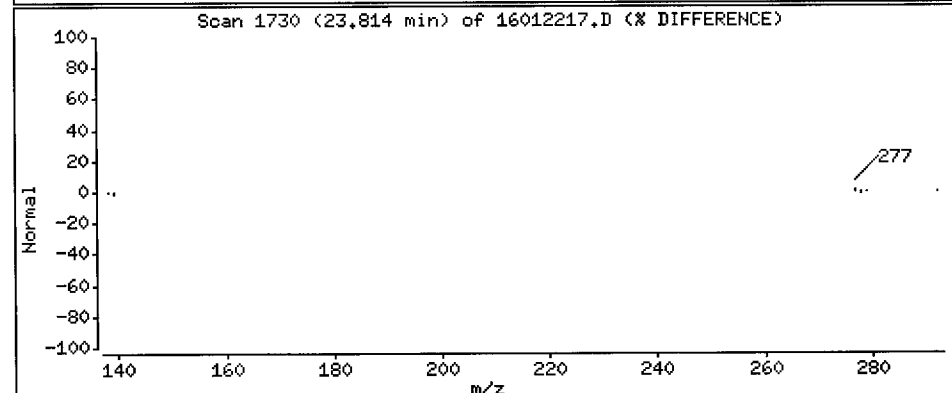
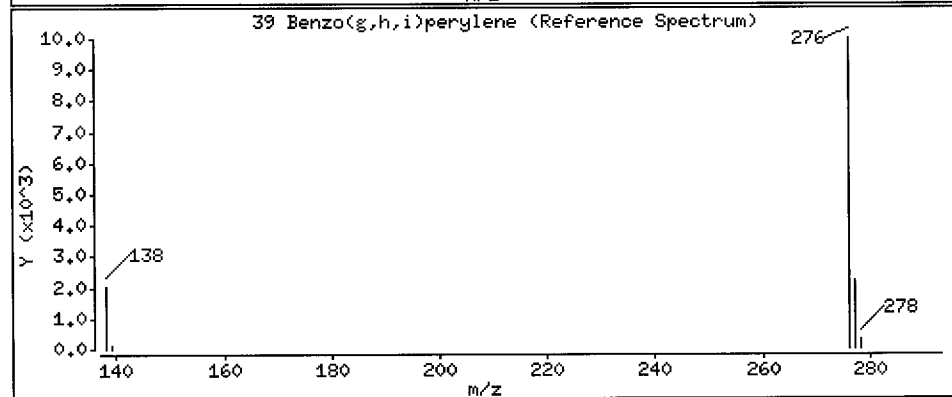
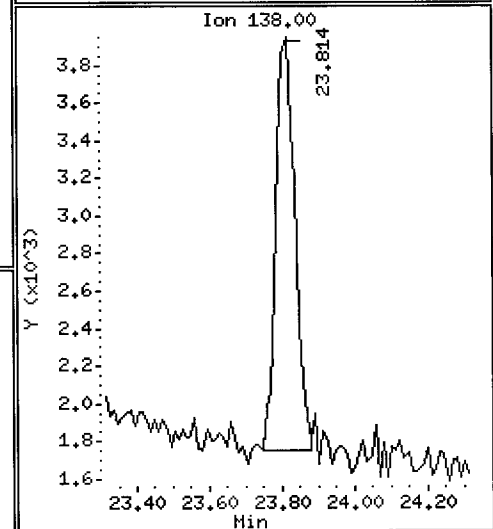
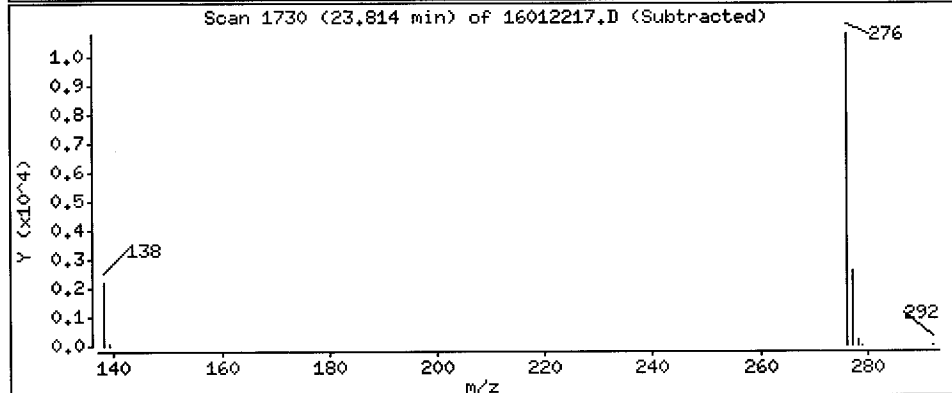
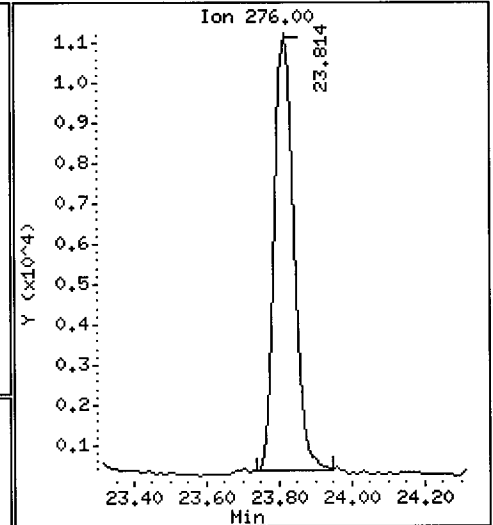
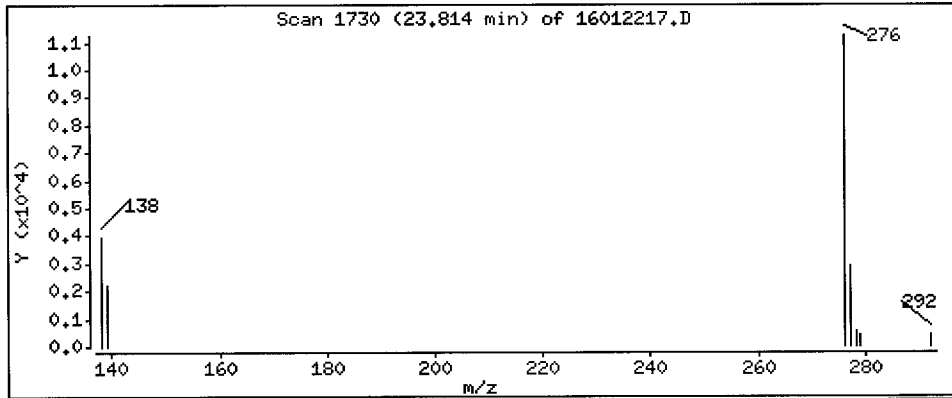
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

39 Benzo(g,h,i)perylene

Concentration: 986 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SMA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

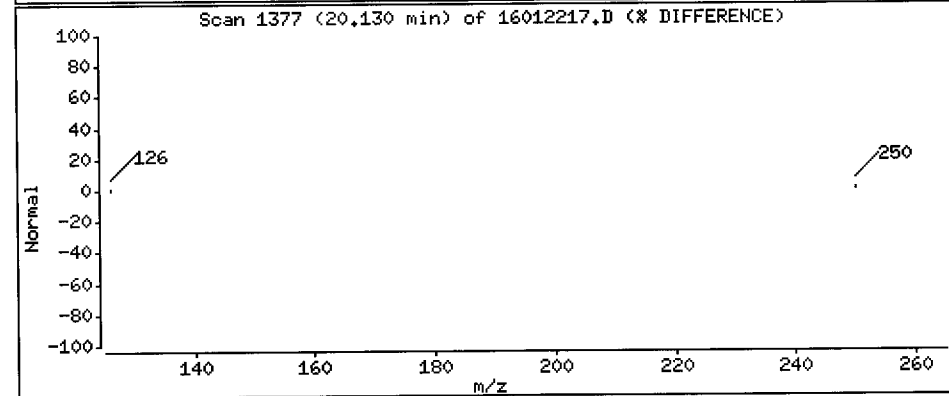
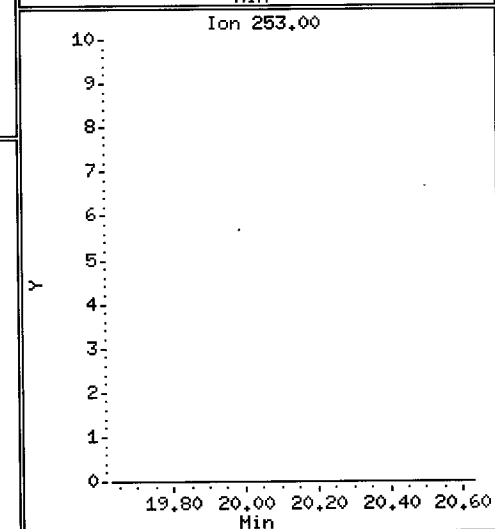
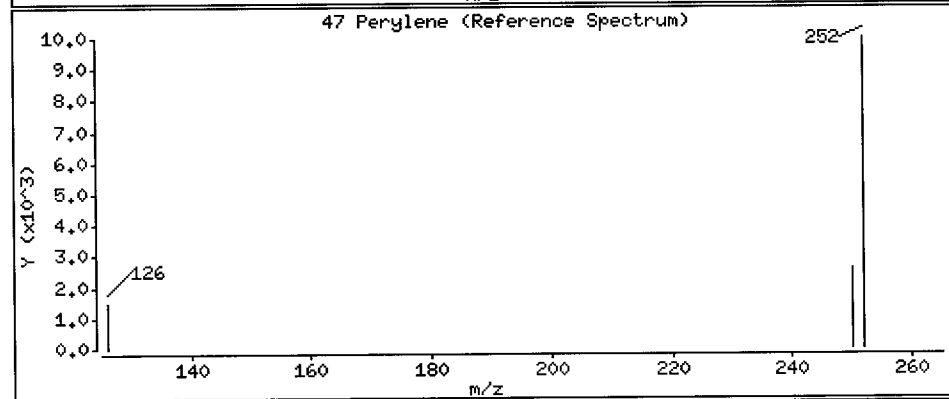
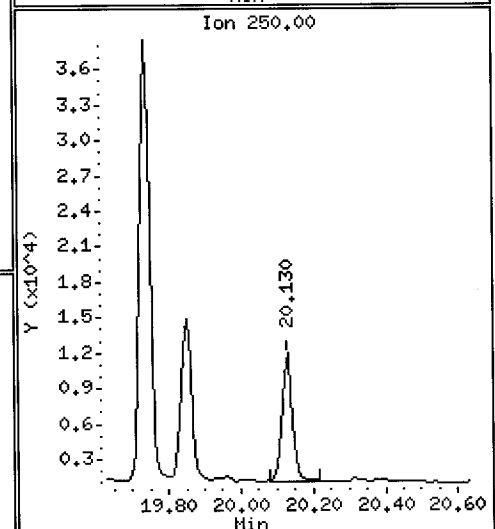
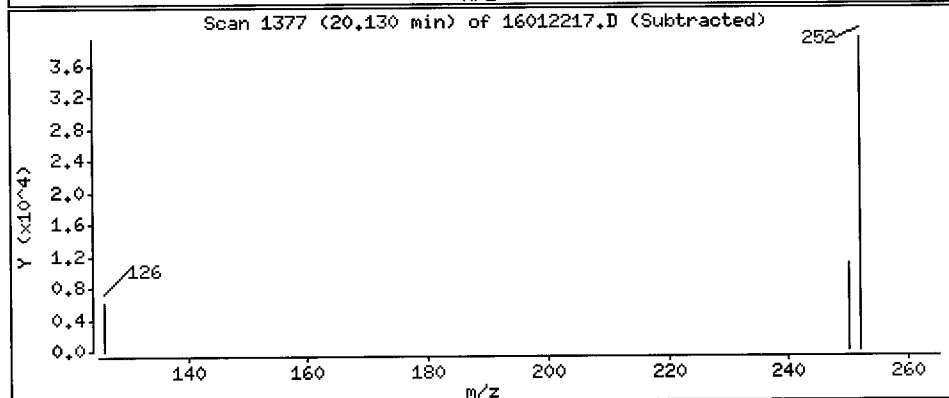
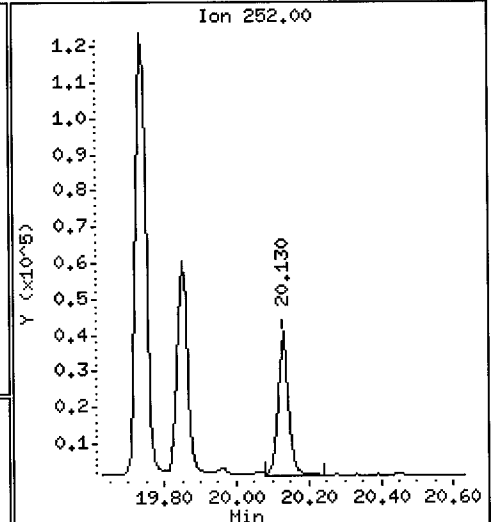
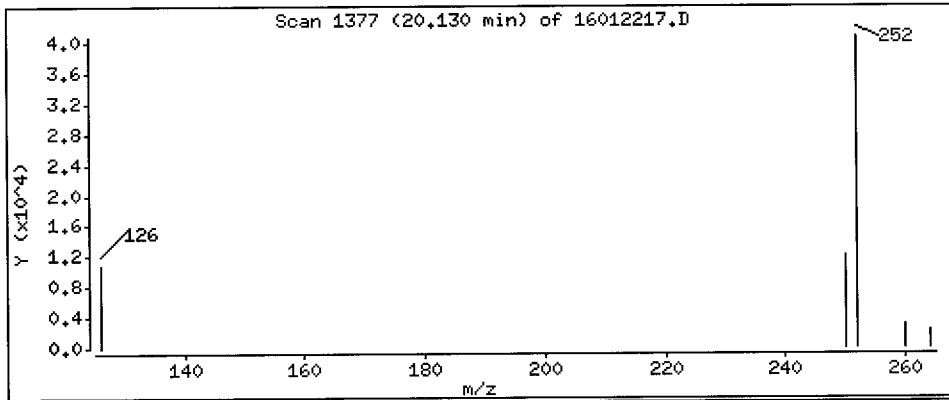
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

47 Perylene

Concentration: 1750 ug/kg



Date : 22-JAN-2016 15:29

Client ID: PG-SHA2-5-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

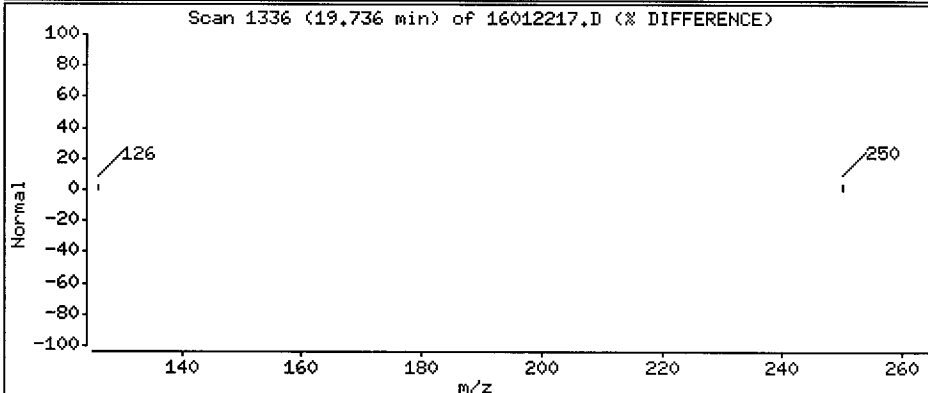
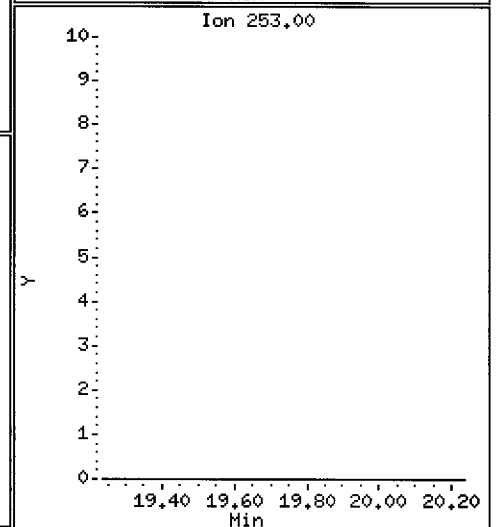
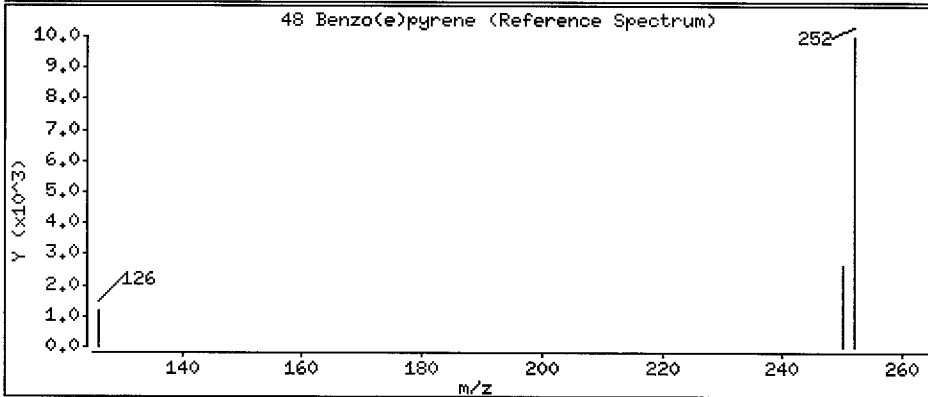
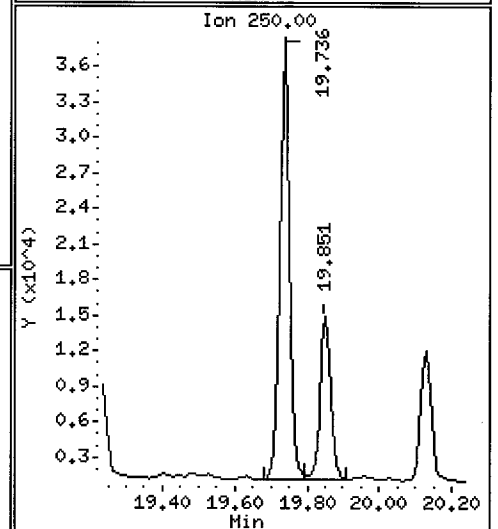
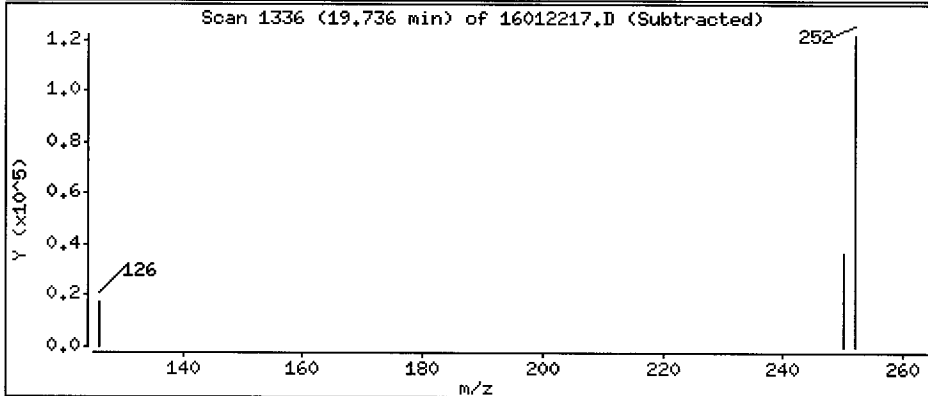
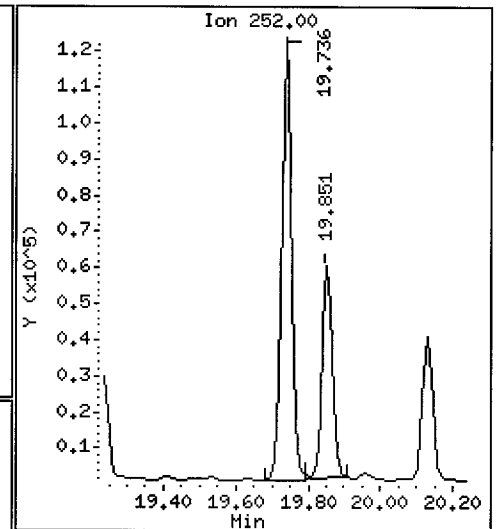
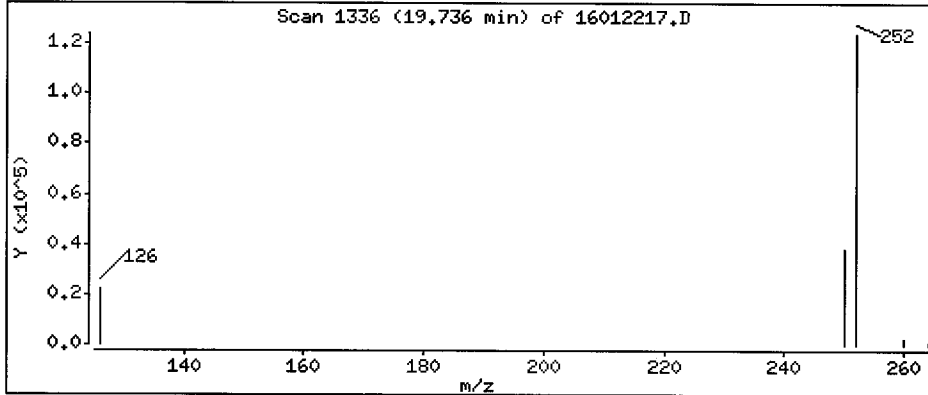
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 5250 ug/kg



Lab ID: ATSOE

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 15:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000

ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20160122.b\16012218.D
 Lab Smp Id: ATSO F Client Smp ID: PG-SMA2-4-MUS-COC-1
 Inj Date : 22-JAN-2016 15:59 MS Autotune Date: 23-APR-2014 12:54
 Operator : JW Inst ID: nt11.i
 Smp Info : ATSO F
 Misc Info : 16-140
 Comment :
 Method : \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Meth Date : 25-Jan-2016 07:43 nt11.i Quant Type: ISTD
 Cal Date : 04-DEC-2015 11:33 Cal File: 15120407.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PEMD.sub
 Target Version: 4.14
 Processing Host: AUTOSPECDATA2

Concentration Formula: Amt * DF * Vt / (Ws * (100-M) / 100) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	500.000	Volume of final extract (uL)
Ws	10.040	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Cpnd Variable		Local Compound Variable

Handwritten: 1/25/16

Compounds	QUANT	SIG	CONCENTRATIONS				ON-COLUMN (ng/mL)	FINAL (ug/kg)	
			MASS	RT	EXP RT	REL RT			RESPONSE
* 4 Naphthalene-d8	136		6.723	6.744	(1.000)	381586	200.000		
5 Naphthalene	128		6.765	6.776	(1.006)	24949	11.3193	564	
\$ 6 2-Methylnaphthalene-d10	152		7.711	7.721	(1.147)	222731	157.256	7830	
7 2-Methylnaphthalene	142		Compound Not Detected.						
8 1-Methylnaphthalene	142		Compound Not Detected.						
10 Acenaphthylene	152		Compound Not Detected.						
* 11 Acenaphthene-d10	164		9.744	9.744	(1.000)	270392	200.000		
12 Acenaphthene	153		Compound Not Detected.						
14 Dibenzofuran	168		10.010	10.010	(1.027)	23449	10.7467	535	
15 Fluorene	166		10.630	10.630	(1.091)	25440	15.5461	774	
* 18 Phenanthrene-d10	188		12.424	12.424	(1.000)	439377	200.000		
19 Phenanthrene	178		12.457	12.468	(1.003)	290872	109.880	5470	
20 Anthracene	178		12.512	12.523	(1.007)	83174	35.1020	1750	
\$ 23 Fluoranthene-d10	212		14.519	14.518	(1.169)	445162	184.233	9170	
24 Fluoranthene	202		14.557	14.557	(1.172)	568910	214.059	10700	
25 Pyrene	202		15.047	15.057	(0.877)	367254	142.372	7090	
28 Benzo(a)anthracene	228		17.067	17.075	(0.994)	129249	59.5150	2960	
* 29 Chrysene-d12	240		17.167	17.167	(1.000)	325728	200.000		
30 Chrysene	228		17.217	17.217	(1.003)	151900	63.7292	3170	
44 Benzo(b)fluoranthene	252		18.967	18.967	(0.945)	108265	49.1120	2450	
45 Benzo(k)fluoranthene	252		19.015	19.015	(0.948)	76981	29.9671	1490	

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)
46 Benzo(j)fluoranthene	252	19.082	19.082	(0.951)	60069	25.6699	1280
34 Benzo(a)pyrene	252	19.851	19.851	(0.989)	48129	22.6223	1130
* 35 Perylene-d12	264	20.063	20.062	(1.000)	325370	200.000	
\$ 36 Dibenzo(a,h)anthracene-d14	292	22.529	22.529	(1.123)	260995	198.740	9900
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	23.814	23.814	(1.187)	27650	14.2586	710
47 Perylene	252	20.130	20.130	(1.003)	33449	15.1647	755
48 Benzo(e)pyrene	252	19.736	19.736	(0.984)	70557	31.6700	1580

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 16012218.D
 Lab Smp Id: ATSO F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JW
 Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
 Misc Info: 16-140

Calibration Date: 22-JAN-2016
 Calibration Time: 09:05
 Client Smp ID: PG-SMA2-4-MUS-C
 Level: LOW
 Sample Type: Tissue

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	327896	163948	655792	381586	16.37
11 Acenaphthene-d10	239179	119590	478358	270392	13.05
18 Phenanthrene-d10	372253	186127	744506	439377	18.03
29 Chrysene-d12	294711	147356	589422	325728	10.52
35 Perylene-d12	260595	130298	521190	325370	24.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	6.74	6.24	7.24	6.72	-0.31
11 Acenaphthene-d10	9.74	9.24	10.24	9.74	0.00
18 Phenanthrene-d10	12.42	11.92	12.92	12.42	0.00
29 Chrysene-d12	17.17	16.67	17.67	17.17	0.00
35 Perylene-d12	20.06	19.56	20.56	20.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ARI Labs, Inc.

RECOVERY REPORT

Client Name: Anchor QEA, LLC
Sample Matrix: SOLID
Lab Smp Id: ATSO F
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: PEMD.sub
Method File: \\target\share\chem3\nt11.i\20160122.b\lowsim.m
Misc Info: 16-140

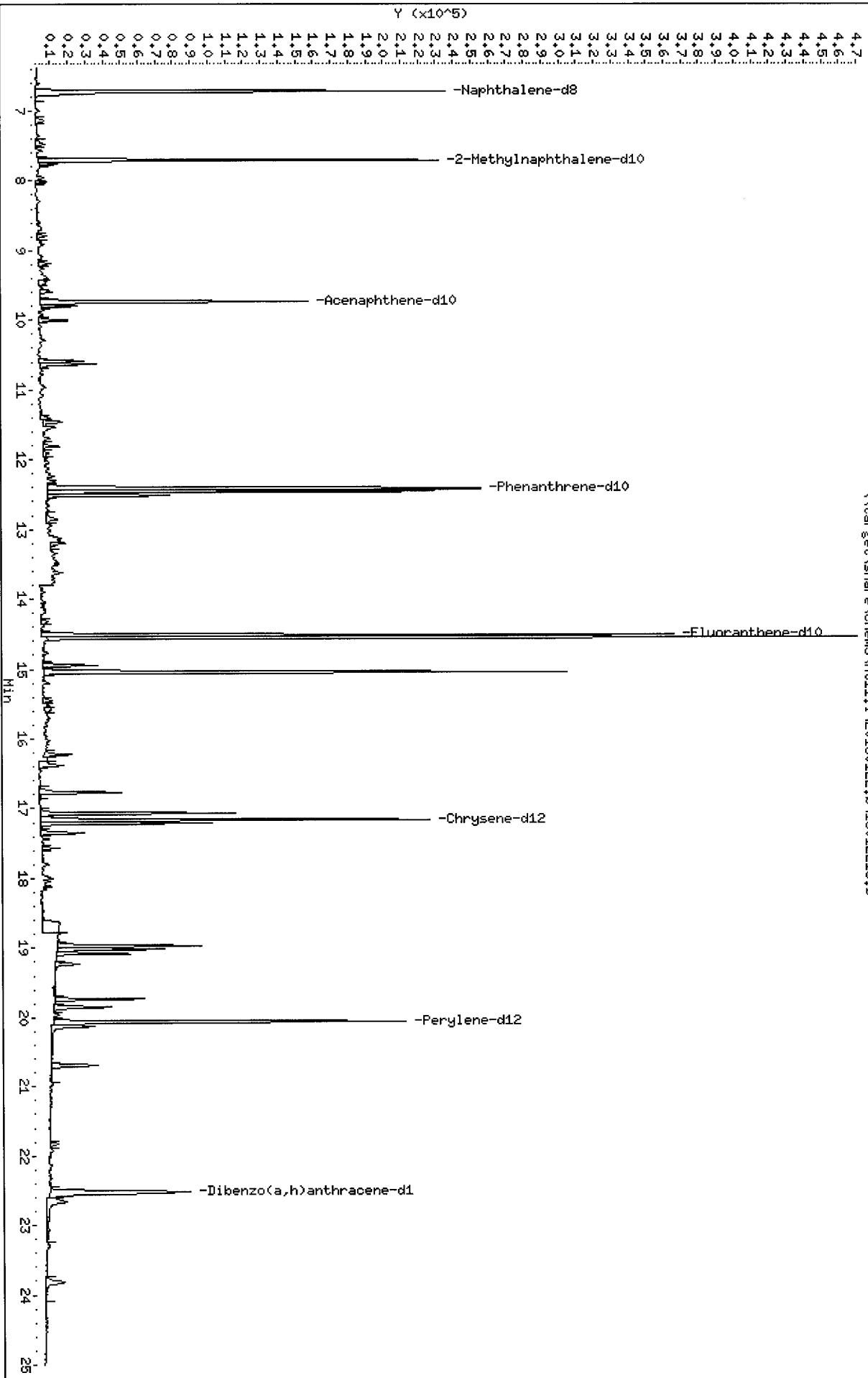
Client SDG: ATSO
Fraction: SV
Client Smp ID: PG-SMA2-4-MUS-COC-1
Operator: JW
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	14900	7830	52.42	30-160
\$ 23 Fluoranthene-d10	14900	9170	61.41	30-160
\$ 36 Dibenzo(a,h) anthra	14900	9900	66.25	30-160

Data File: \\target\share\chem3\nt11.i\20160122.b\16012218.D
Date: 22-JAN-2016 15:59
Client ID: PG-SMR2-4-MUS-COC-1
Sample Info: AT50F
Volume Injected (uL): 2.0
Column phase: Rxi-17Si11 MS

Instrument: nt11.i
Operator: JM
Column diameter: 0.25

\\target\share\chem3\nt11.i\20160122.b\16012218.D



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATS0F

Volume Injected (uL): 2.0

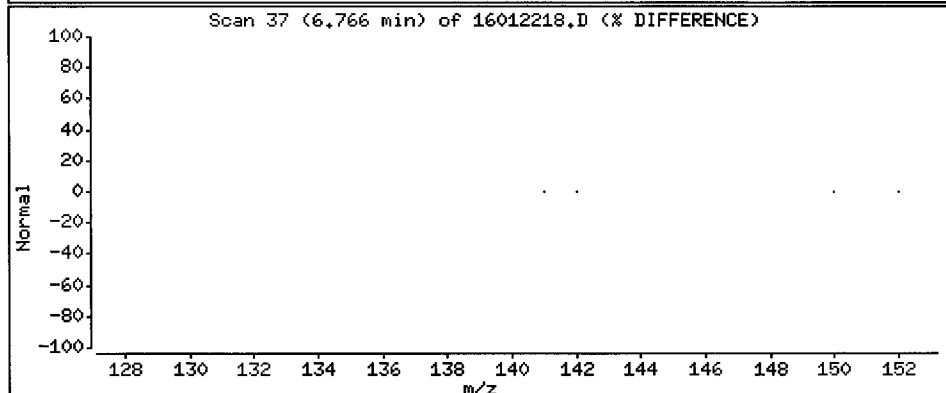
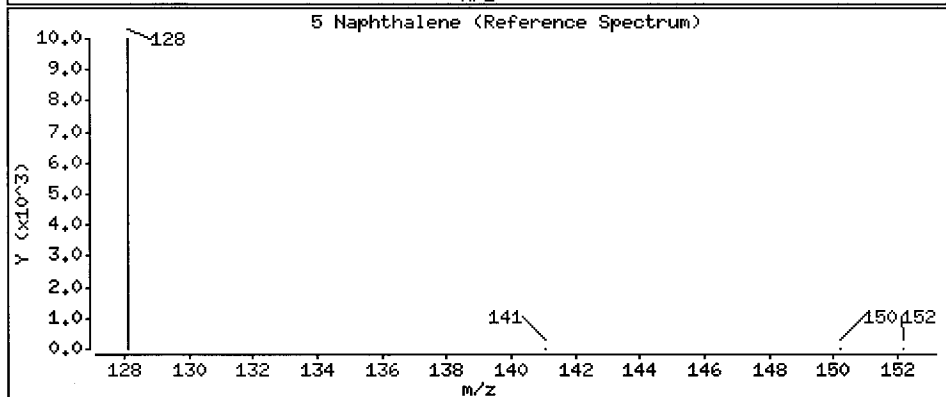
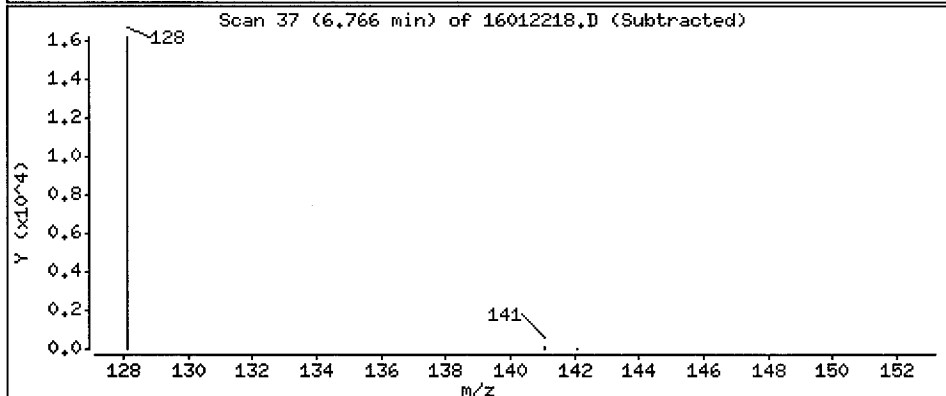
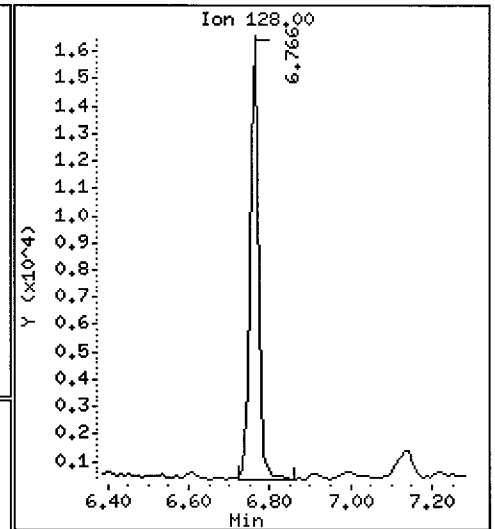
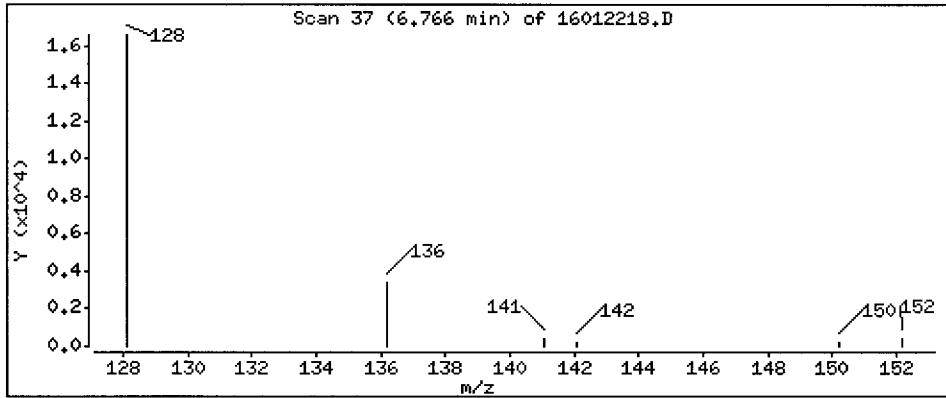
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

5 Naphthalene

Concentration: 564 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

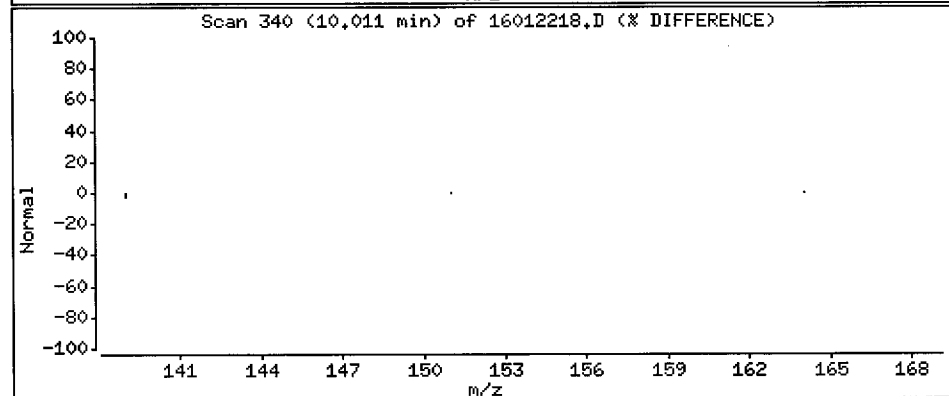
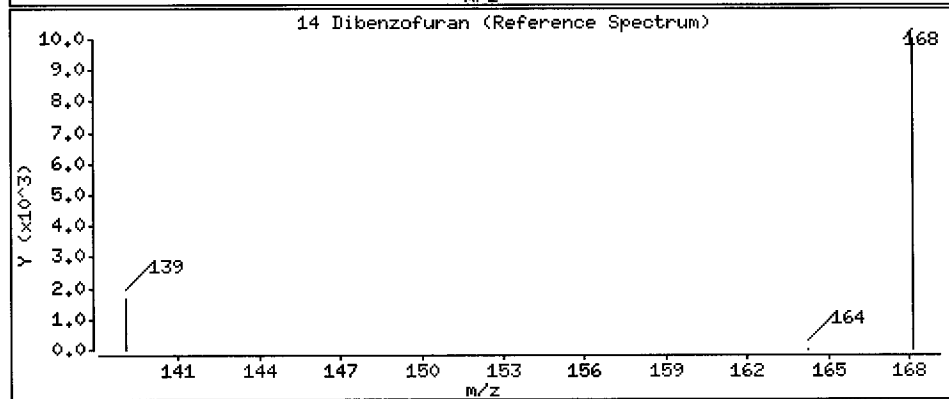
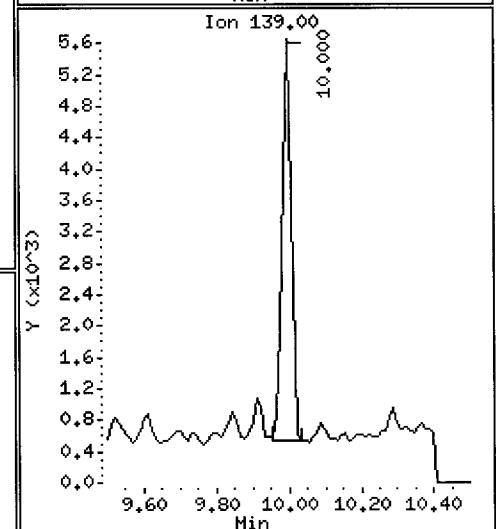
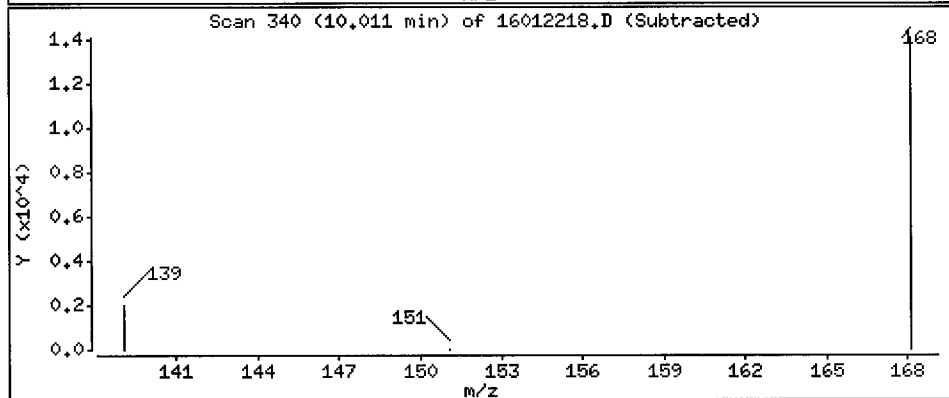
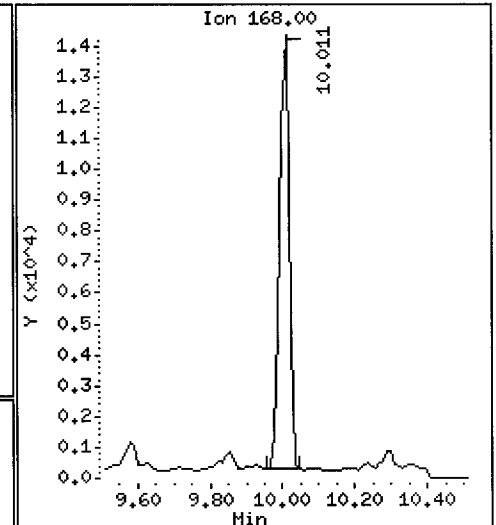
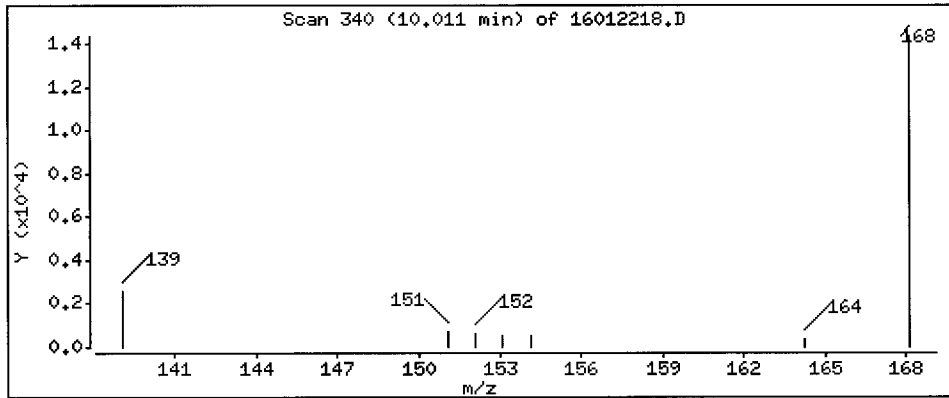
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

14 Dibenzofuran

Concentration: 535 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

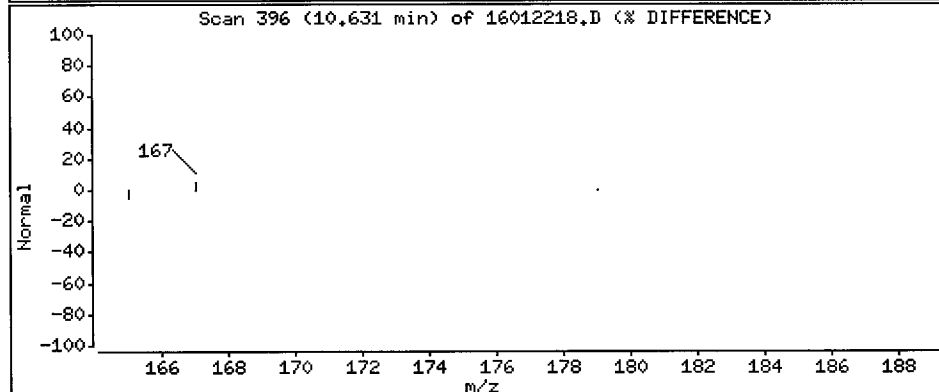
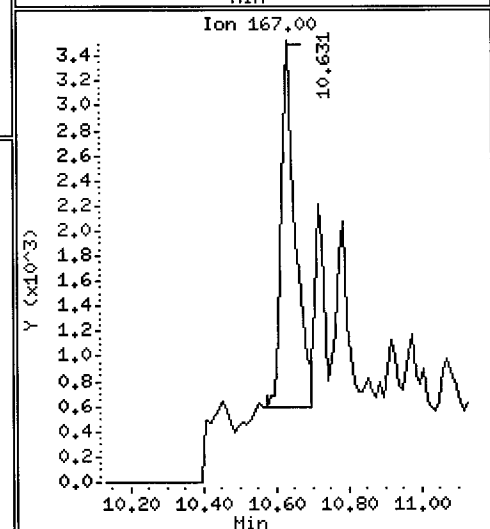
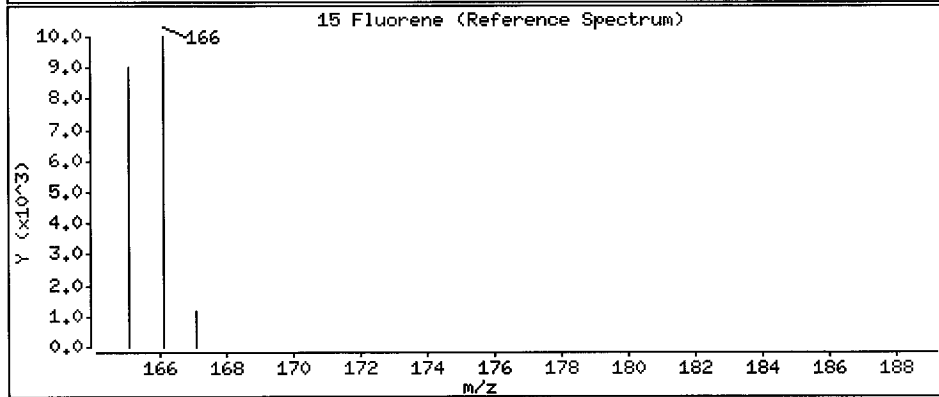
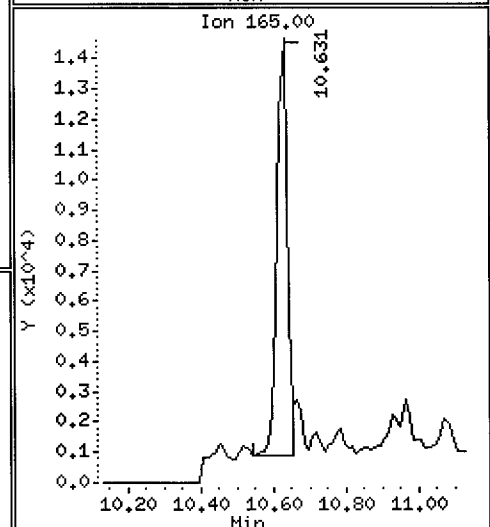
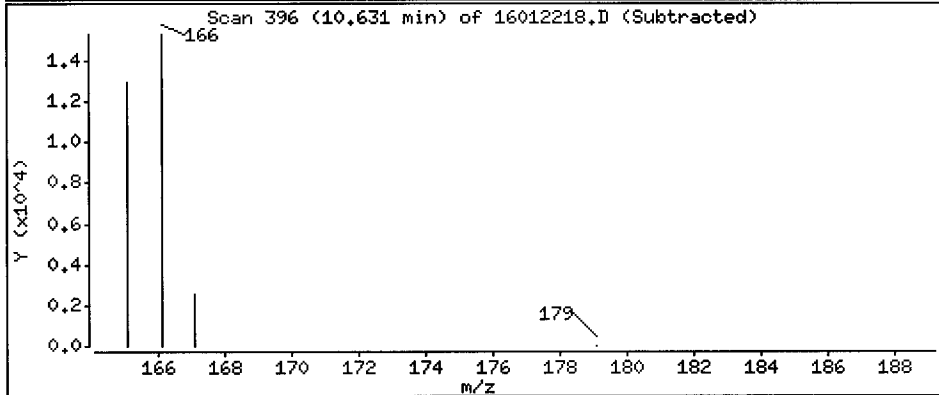
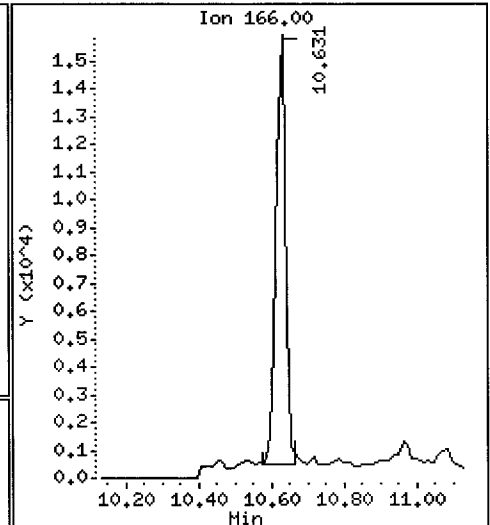
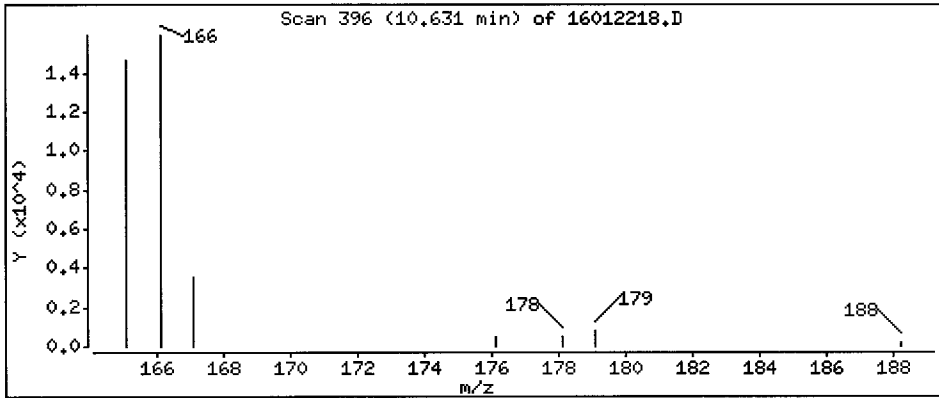
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

15 Fluorene

Concentration: 774 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

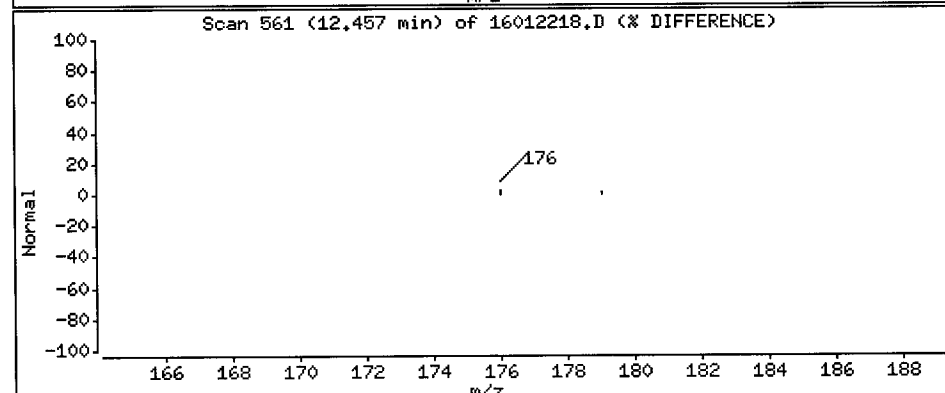
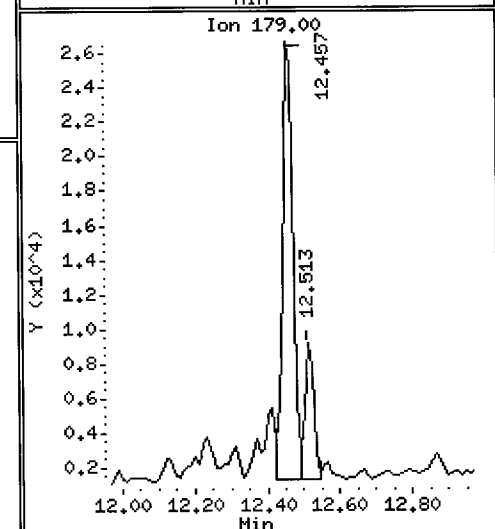
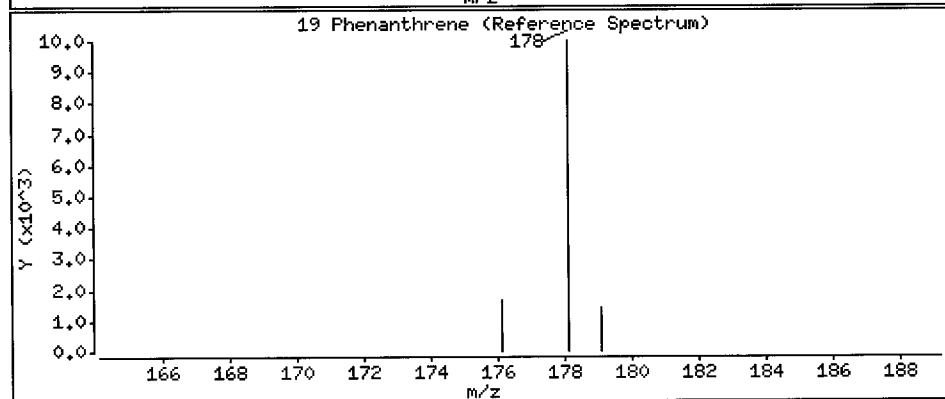
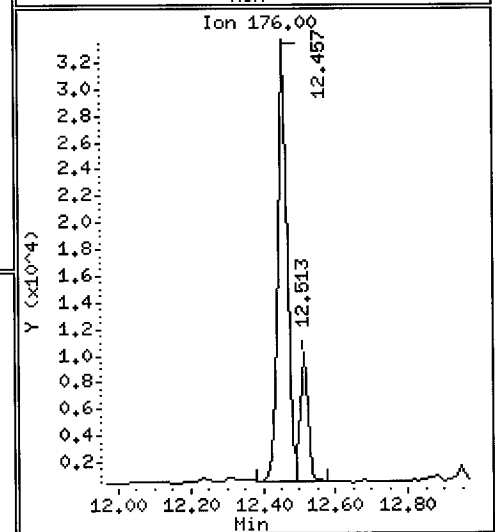
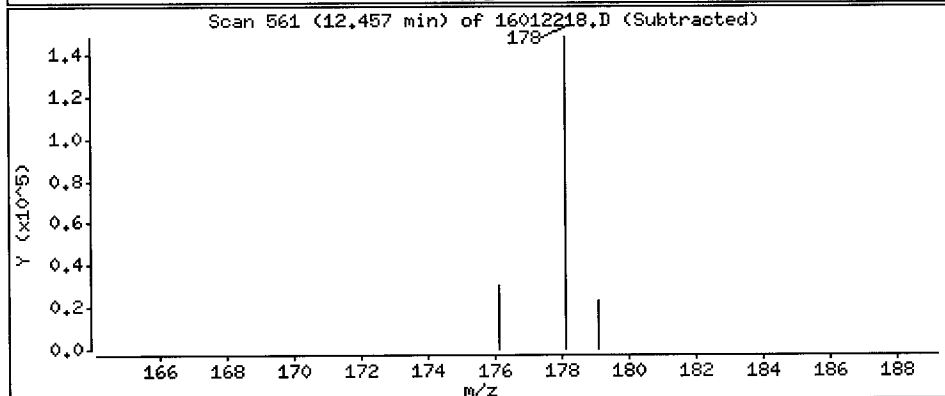
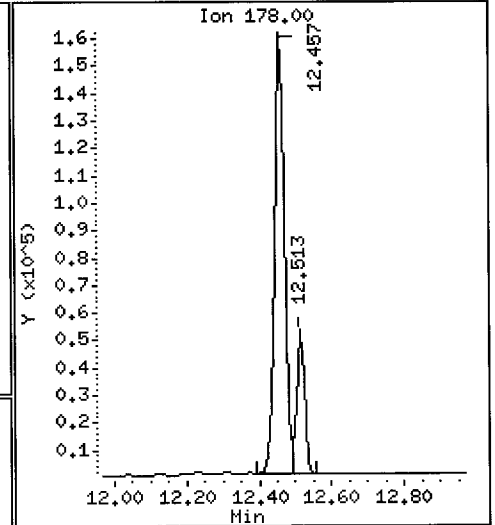
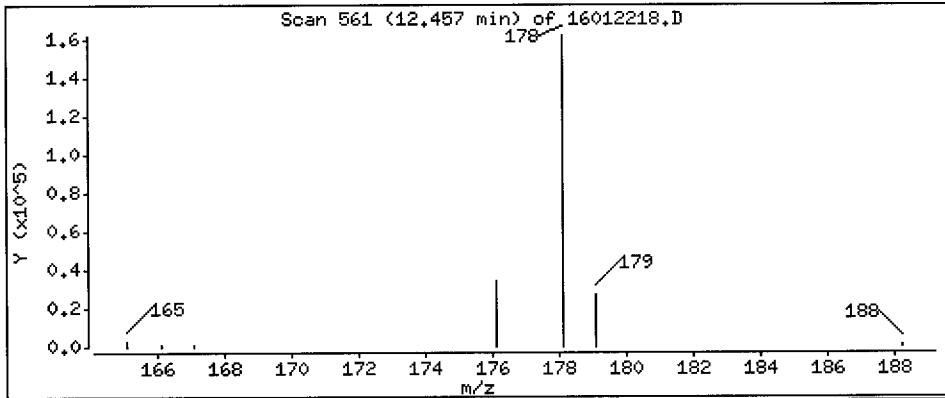
Operator: JM

Column phase: Rxi-17Sil MS

Column diameter: 0.25

19 Phenanthrene

Concentration: 5470 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO

Volume Injected (uL): 2.0

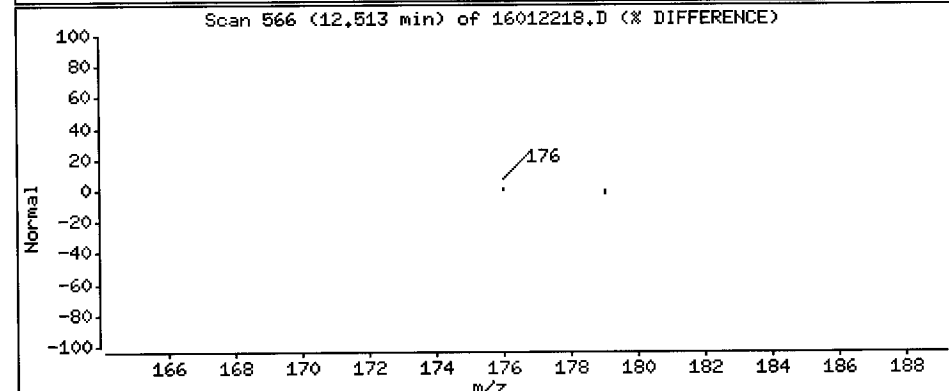
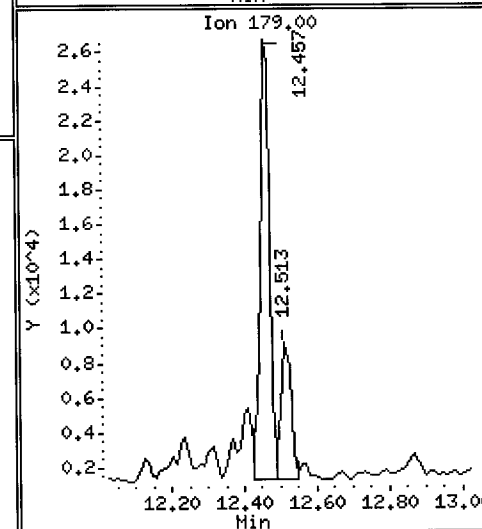
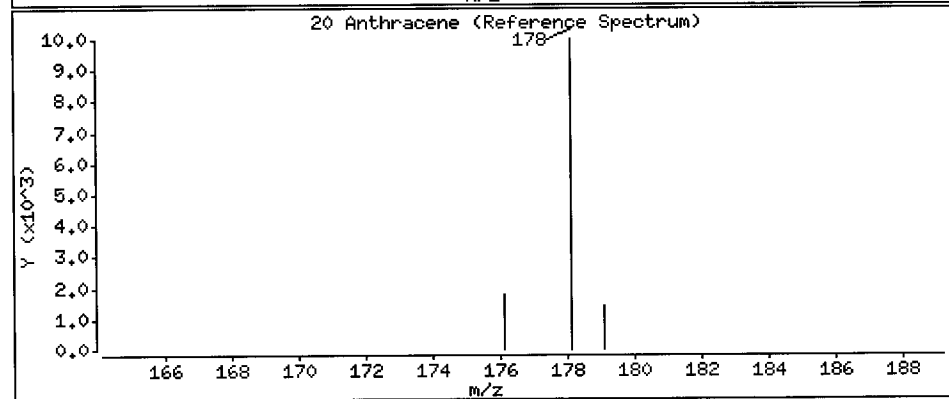
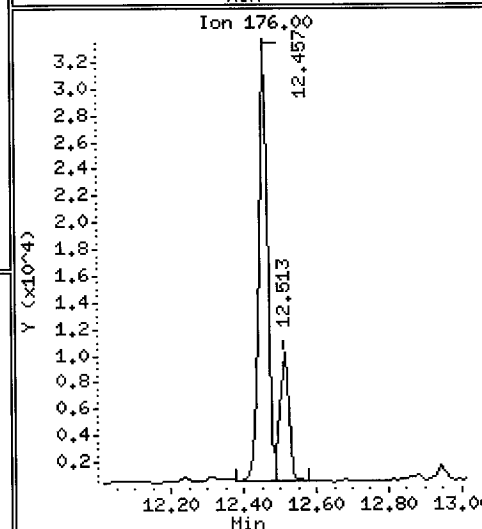
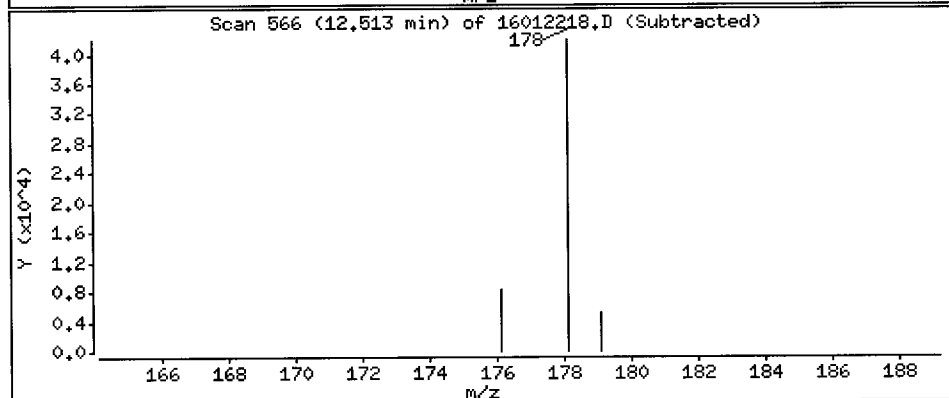
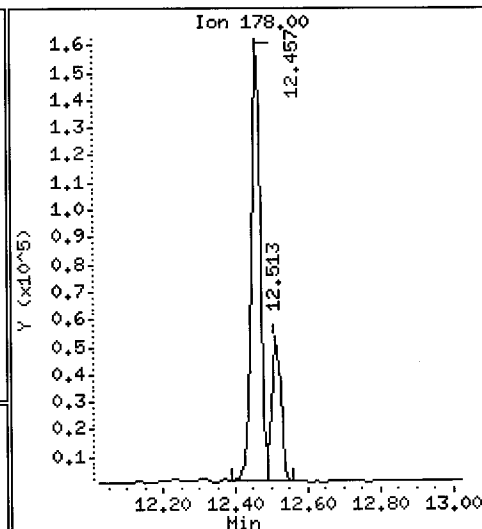
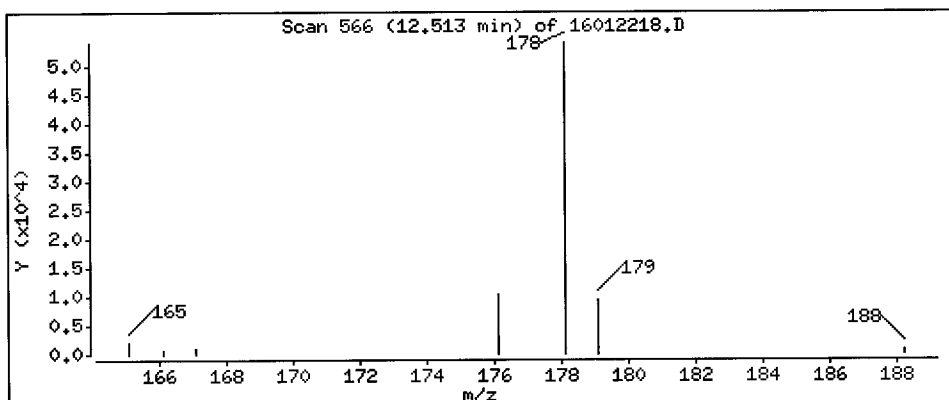
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

20 Anthracene

Concentration: 1750 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SHA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO9

Volume Injected (uL): 2.0

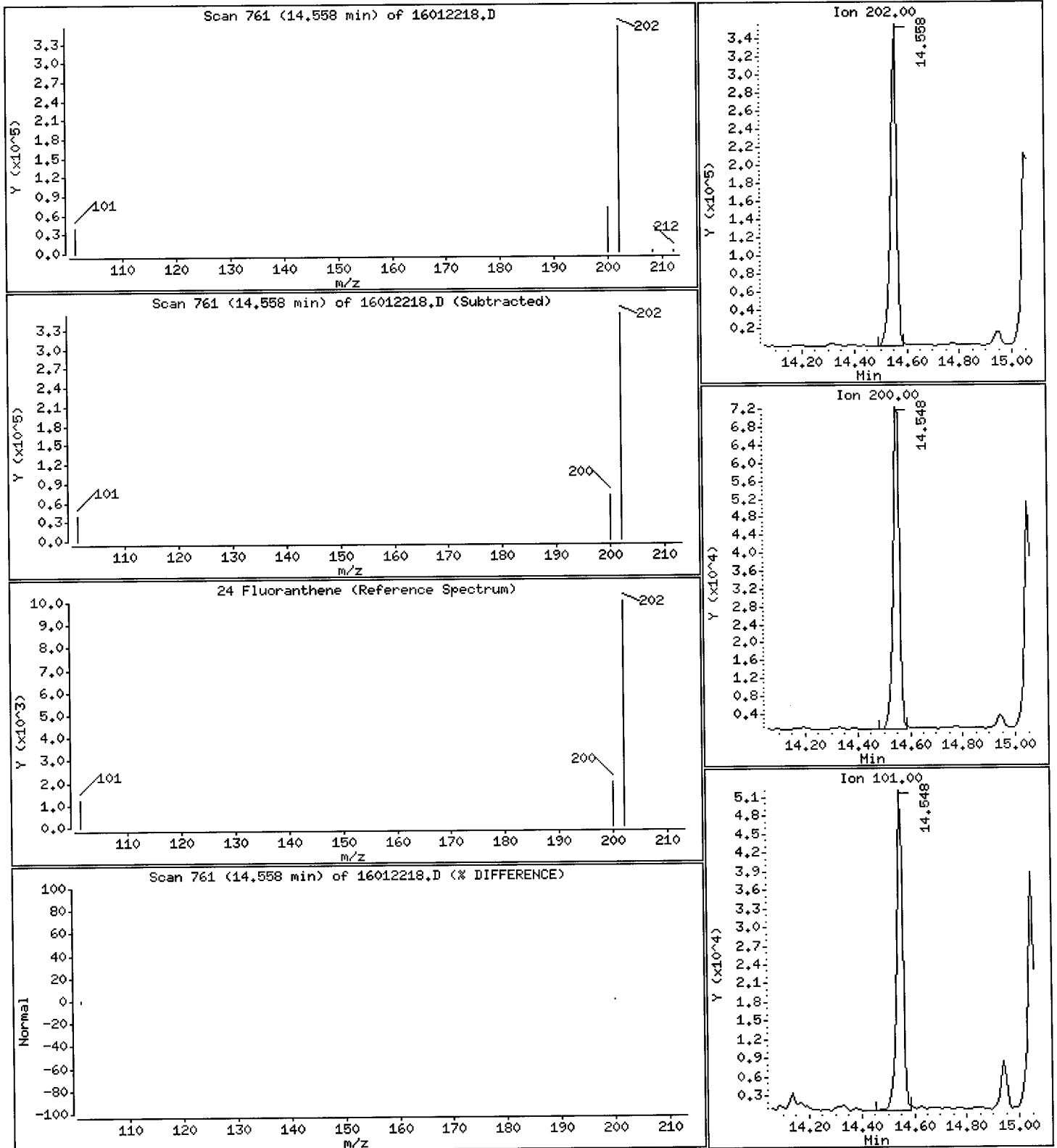
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

24 Fluoranthene

Concentration: 10700 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

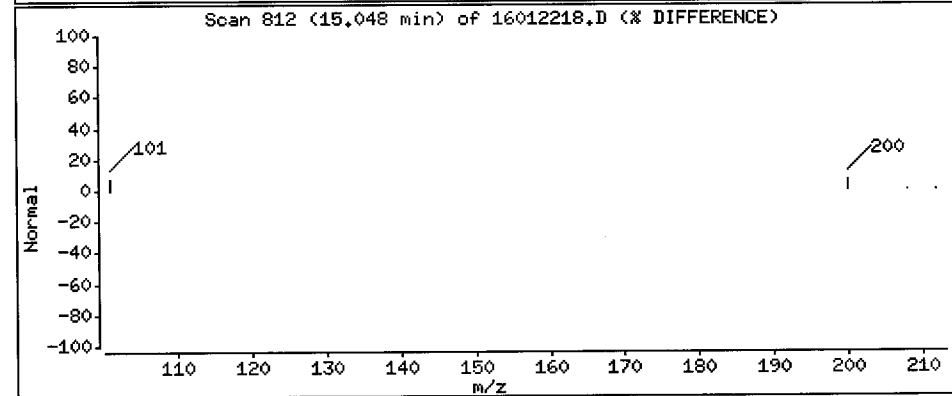
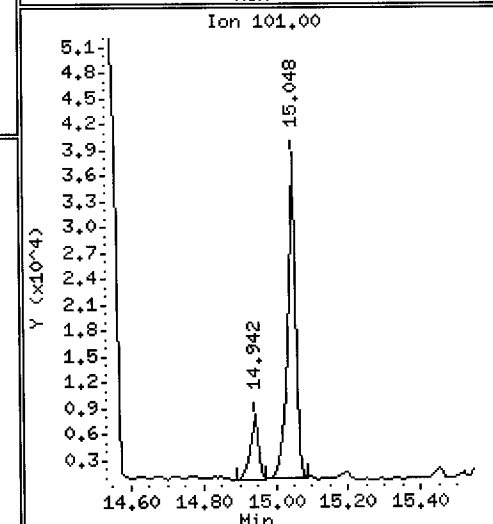
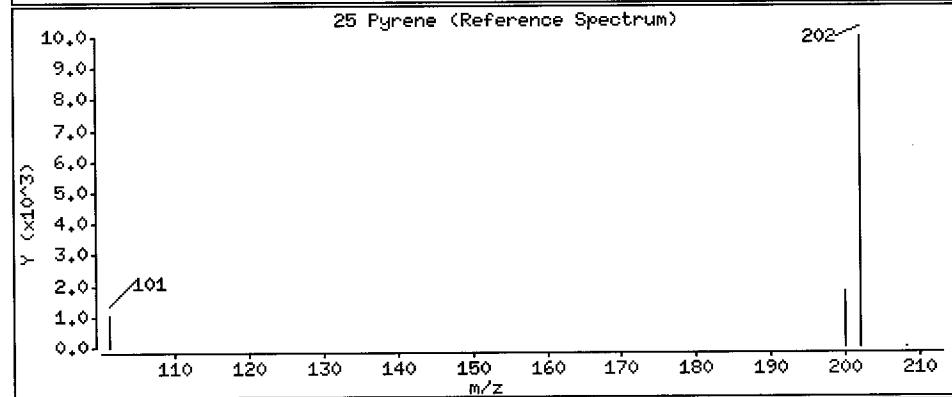
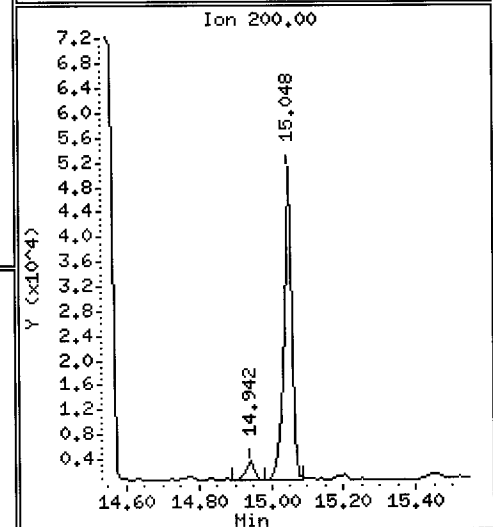
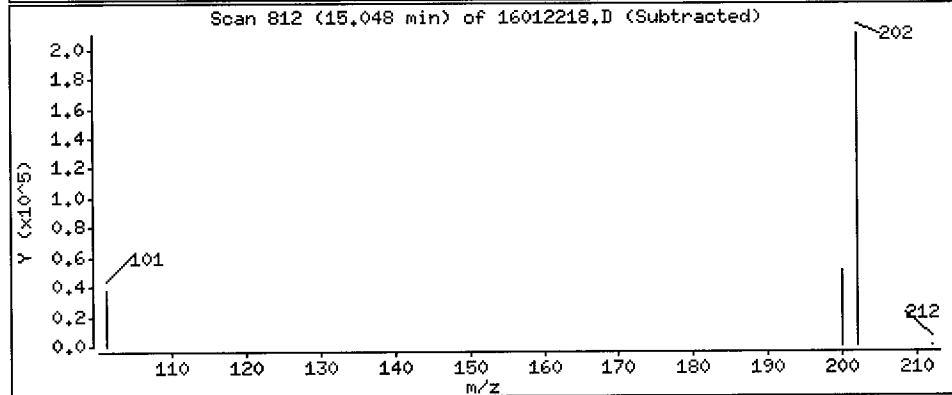
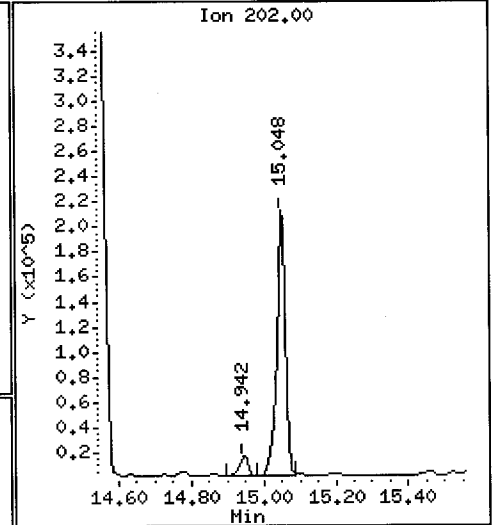
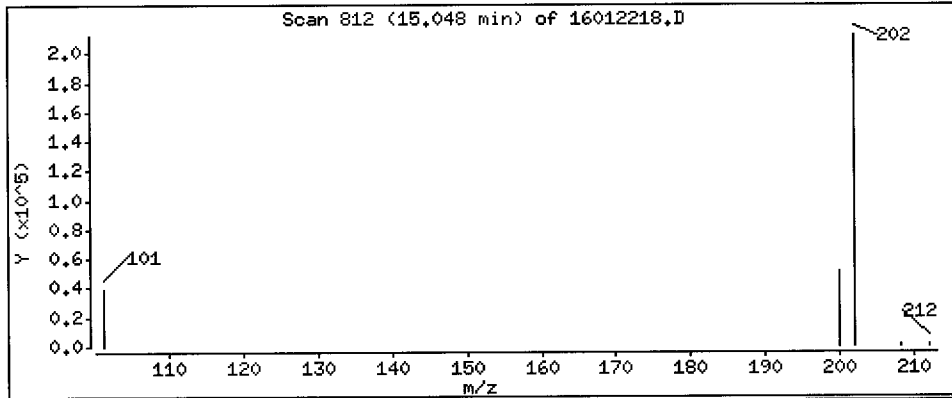
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

25 Pyrene

Concentration: 7090 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

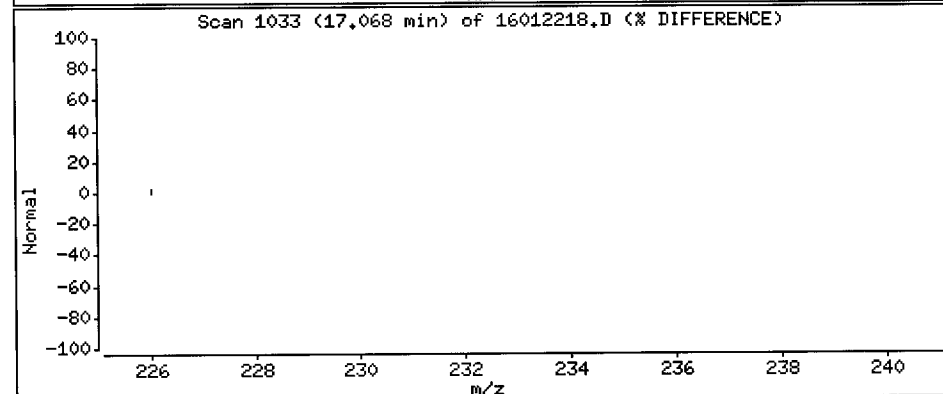
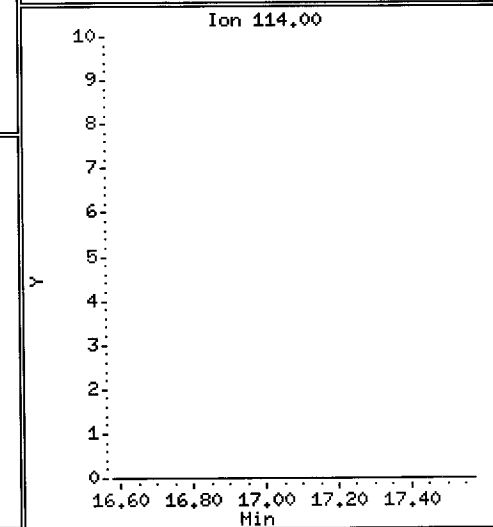
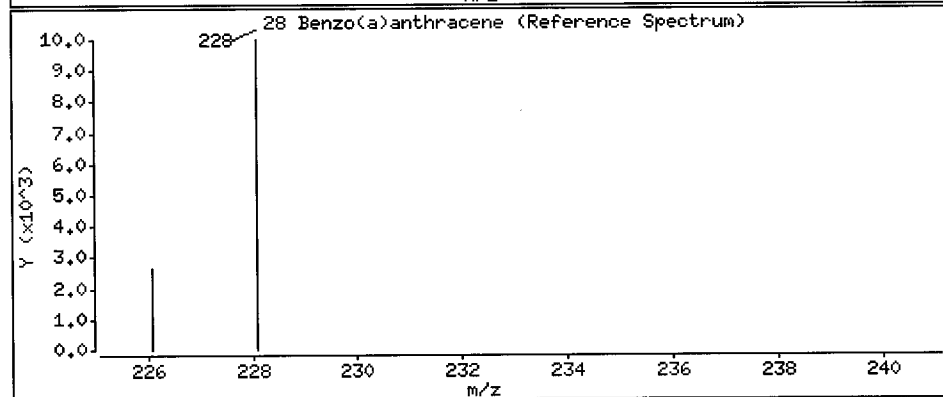
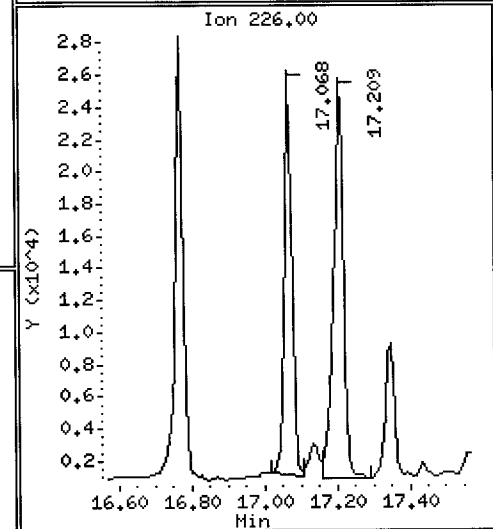
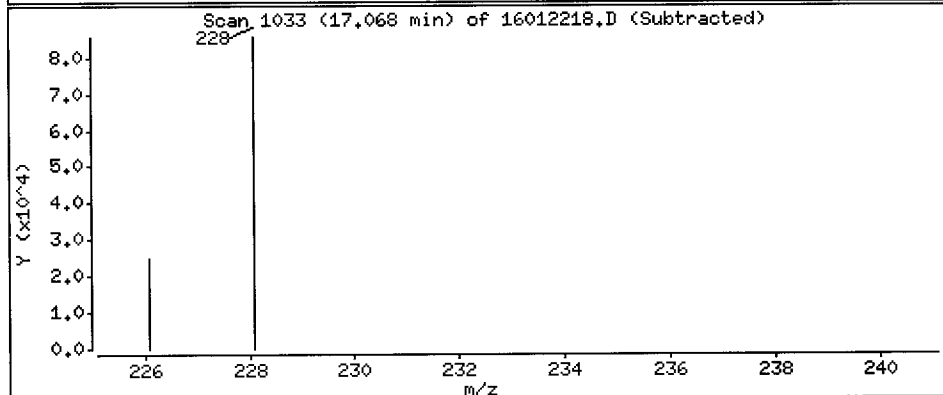
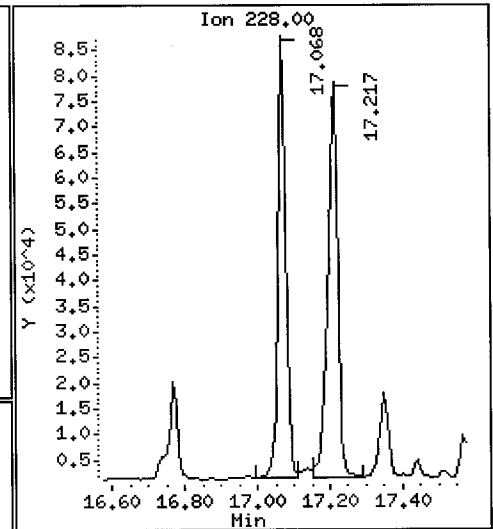
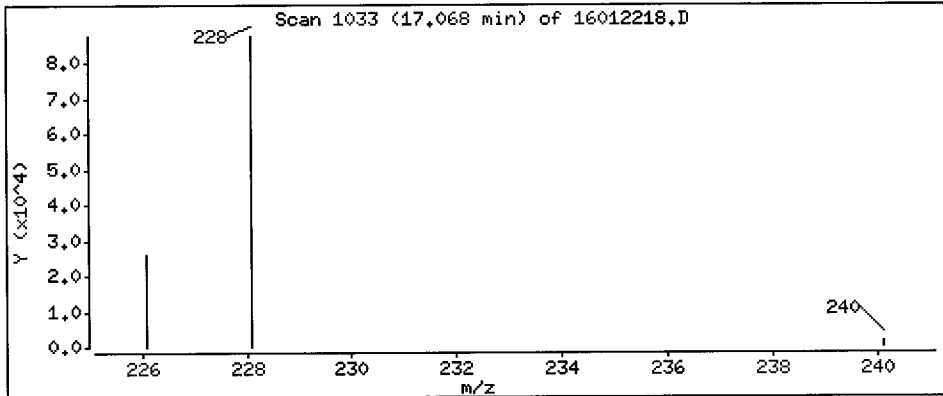
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 2960 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SHA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: AT50F

Volume Injected (uL): 2.0

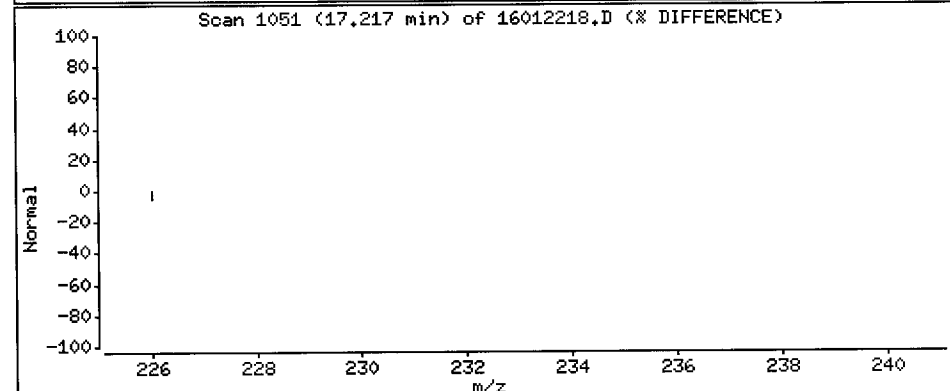
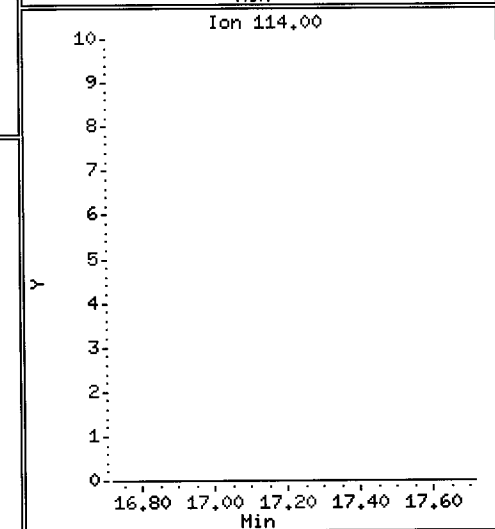
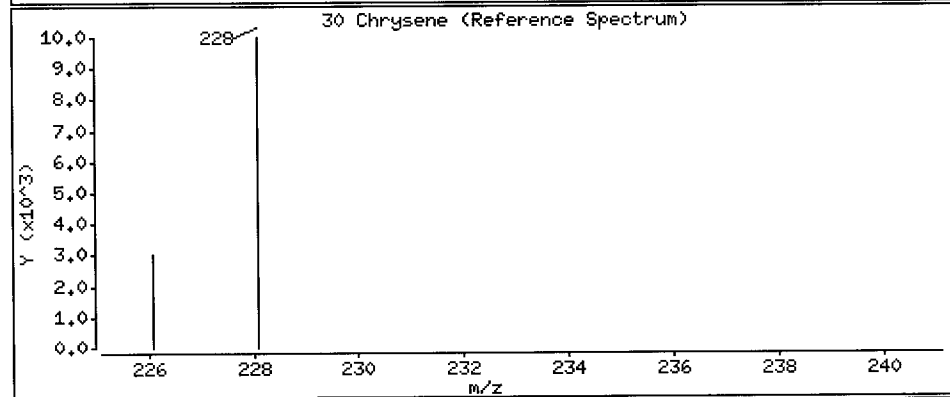
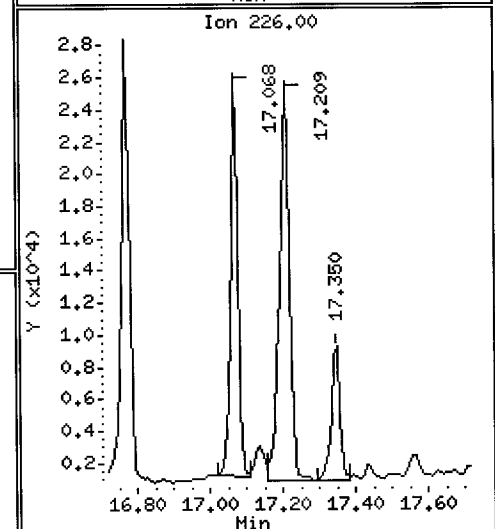
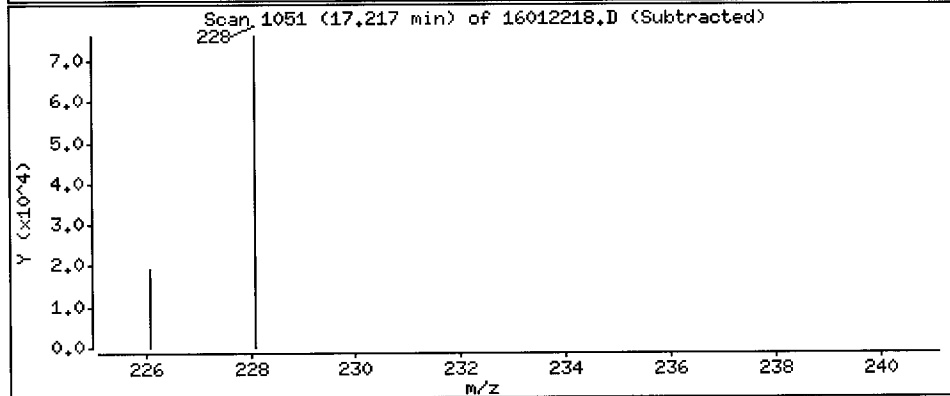
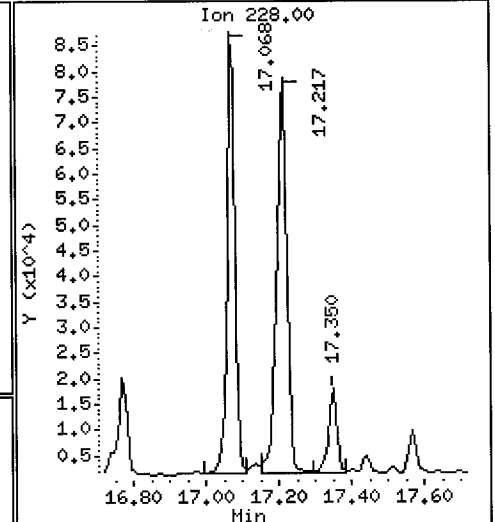
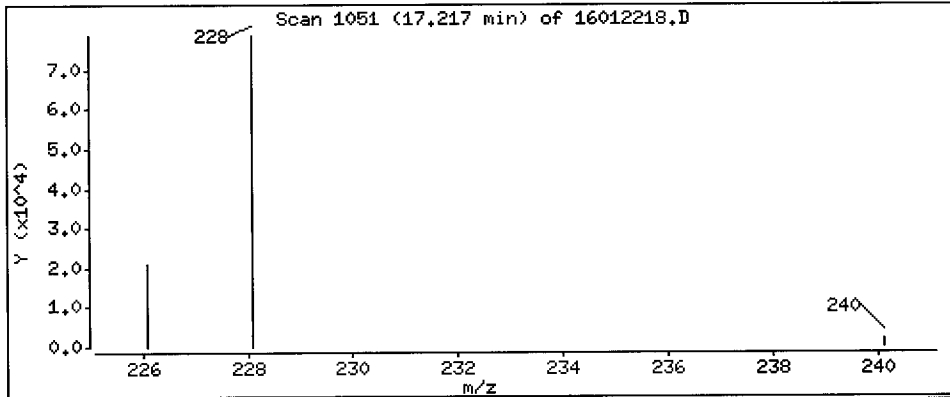
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

30 Chrysene

Concentration: 3170 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

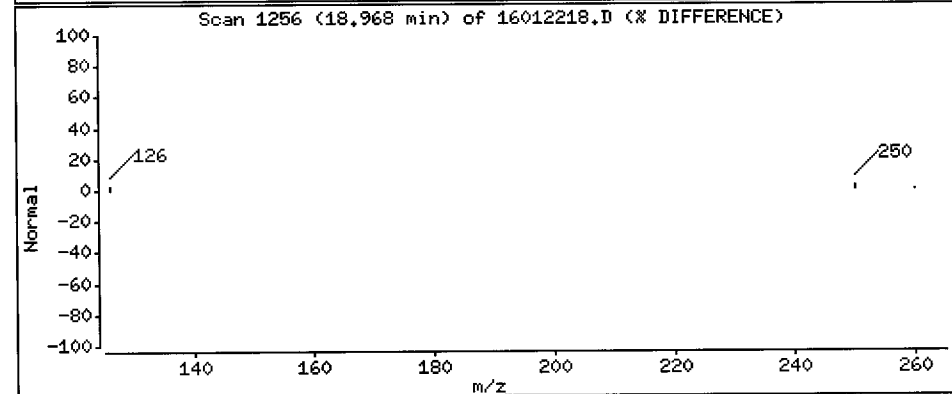
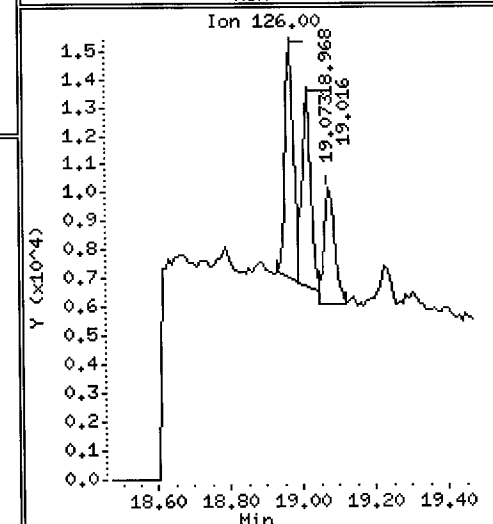
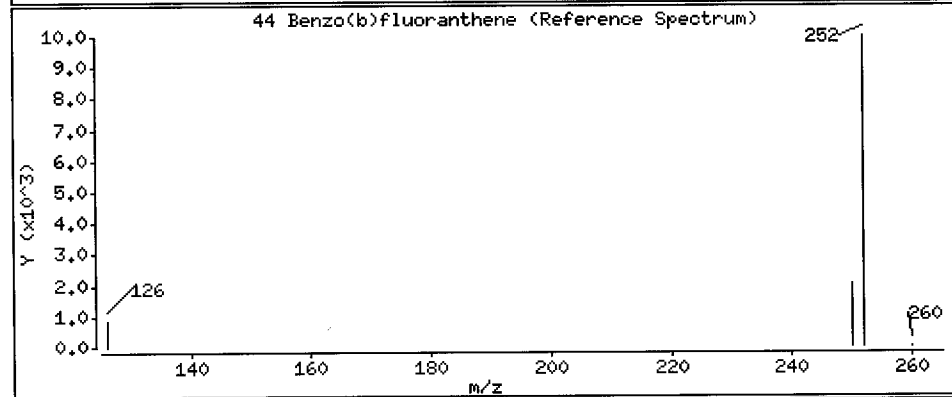
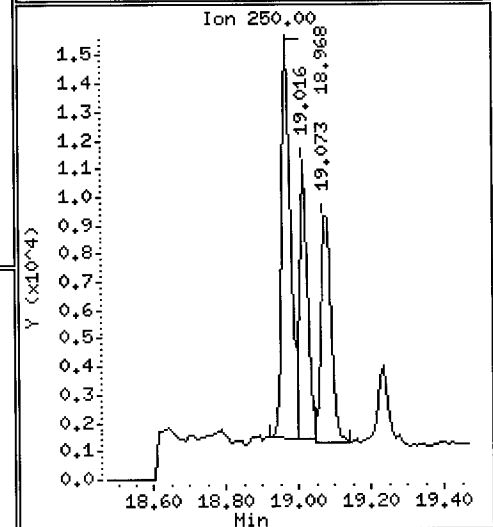
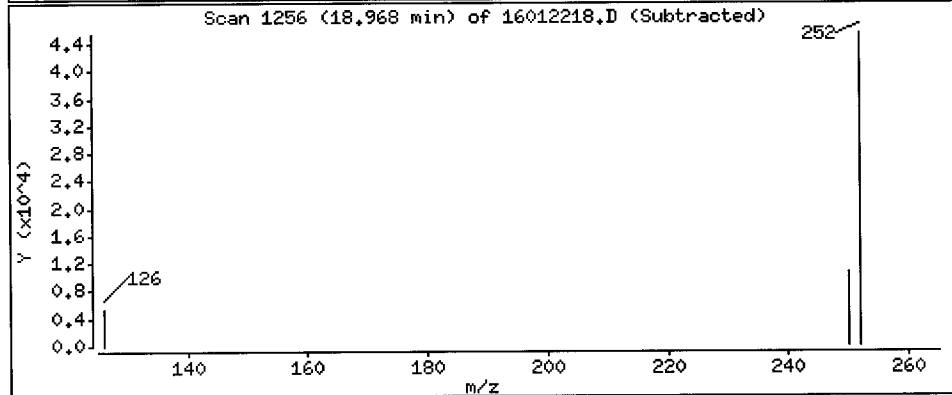
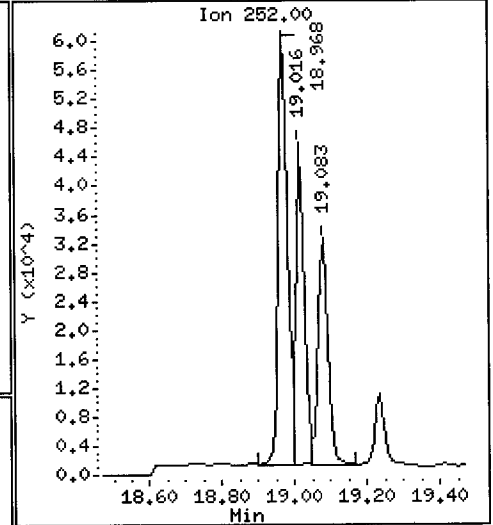
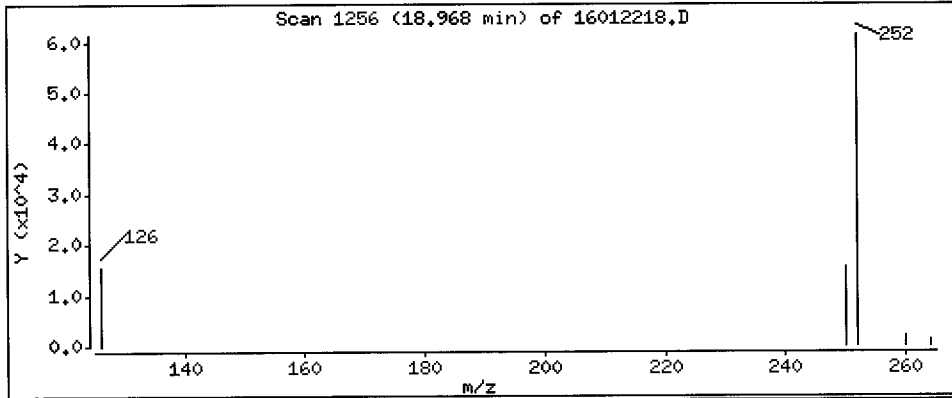
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

44 Benzo(b)fluoranthene

Concentration: 2450 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

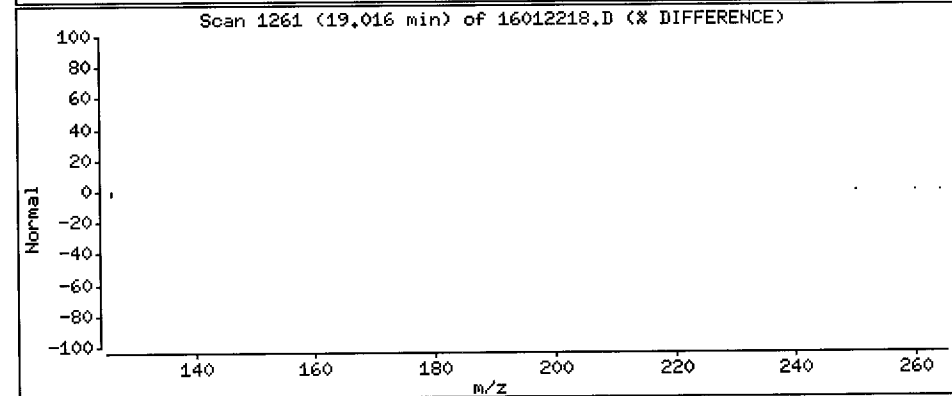
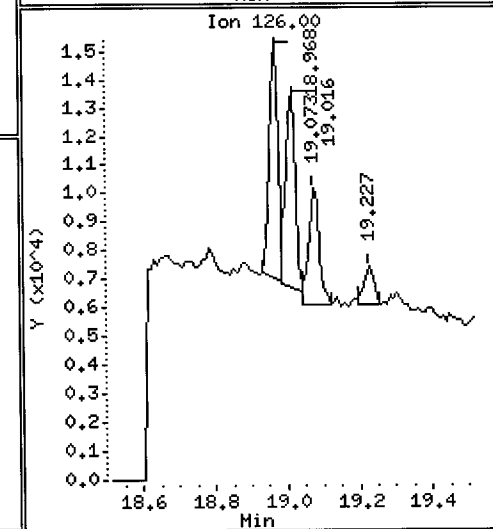
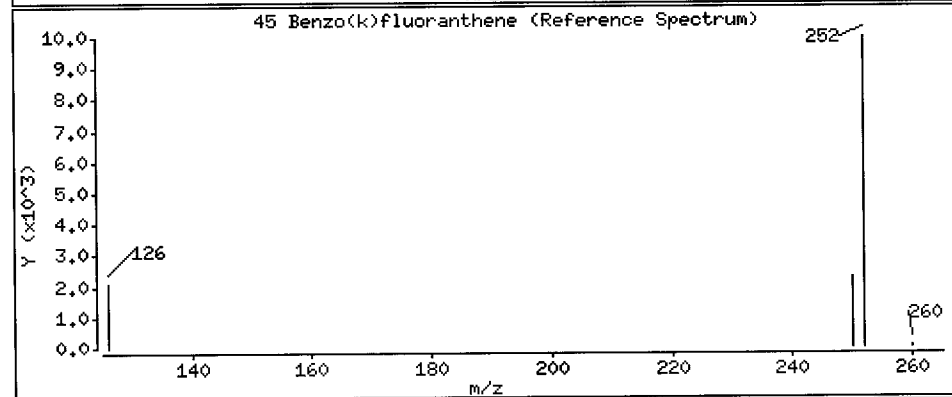
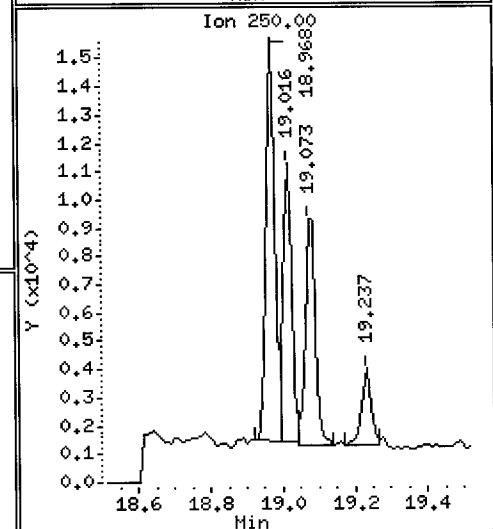
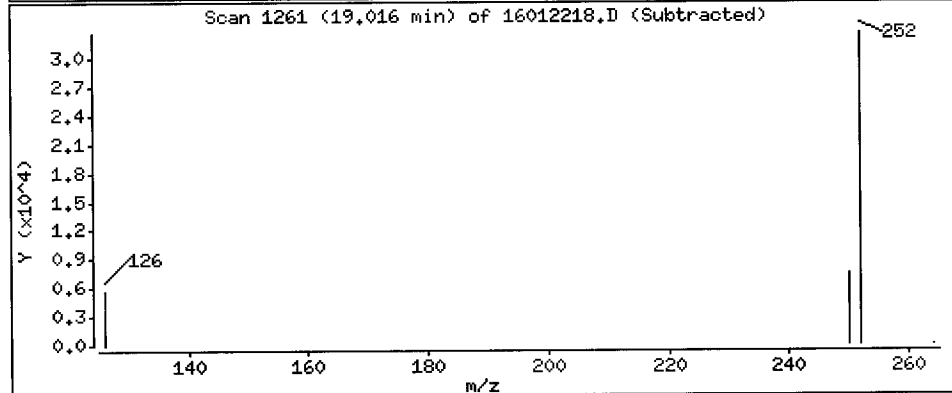
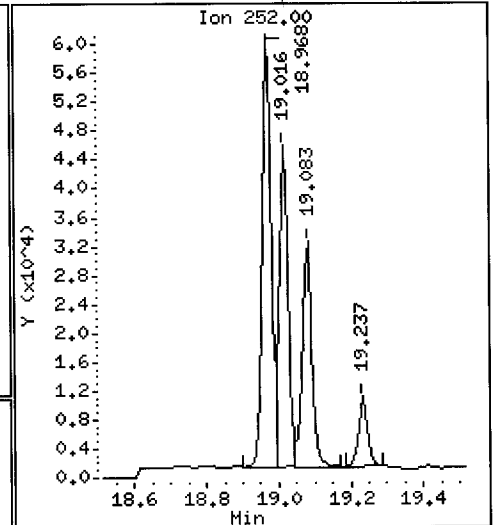
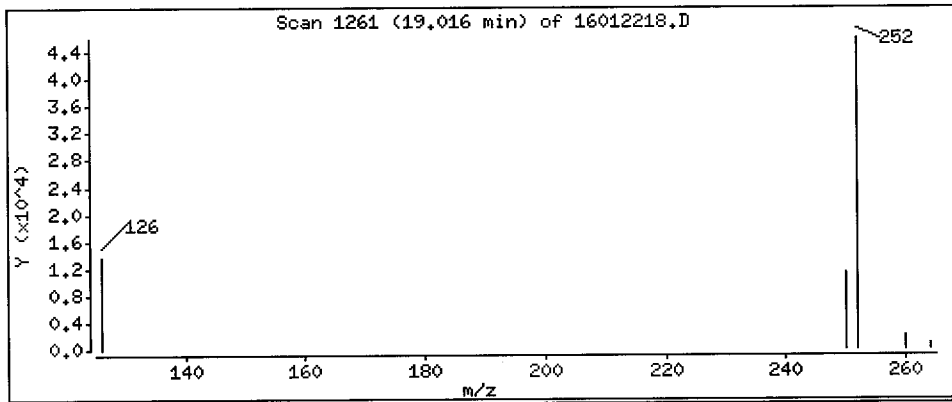
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

45 Benzo(k)fluoranthene

Concentration: 1490 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

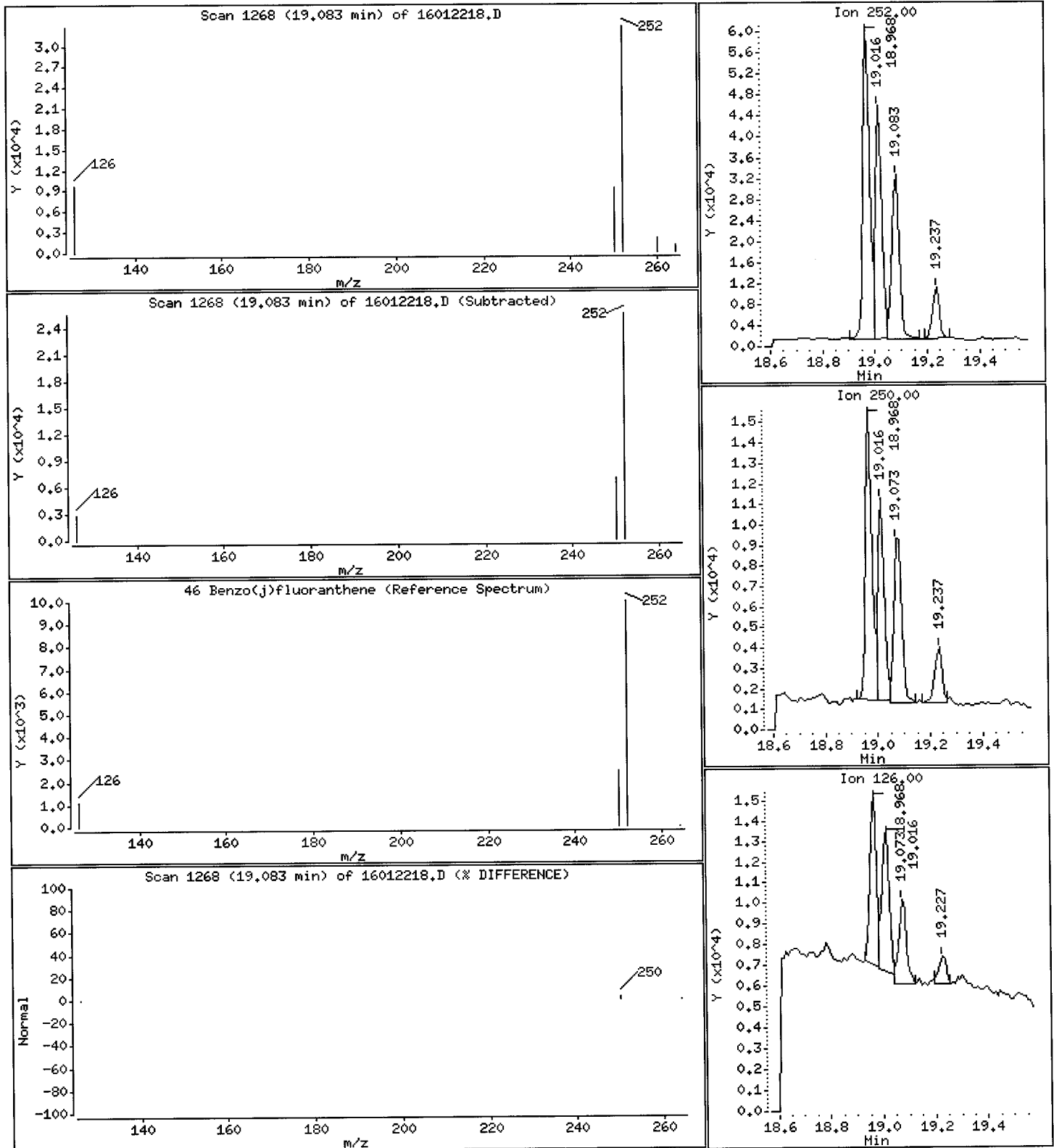
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

46 Benzo(j)fluoranthene

Concentration: 1280 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

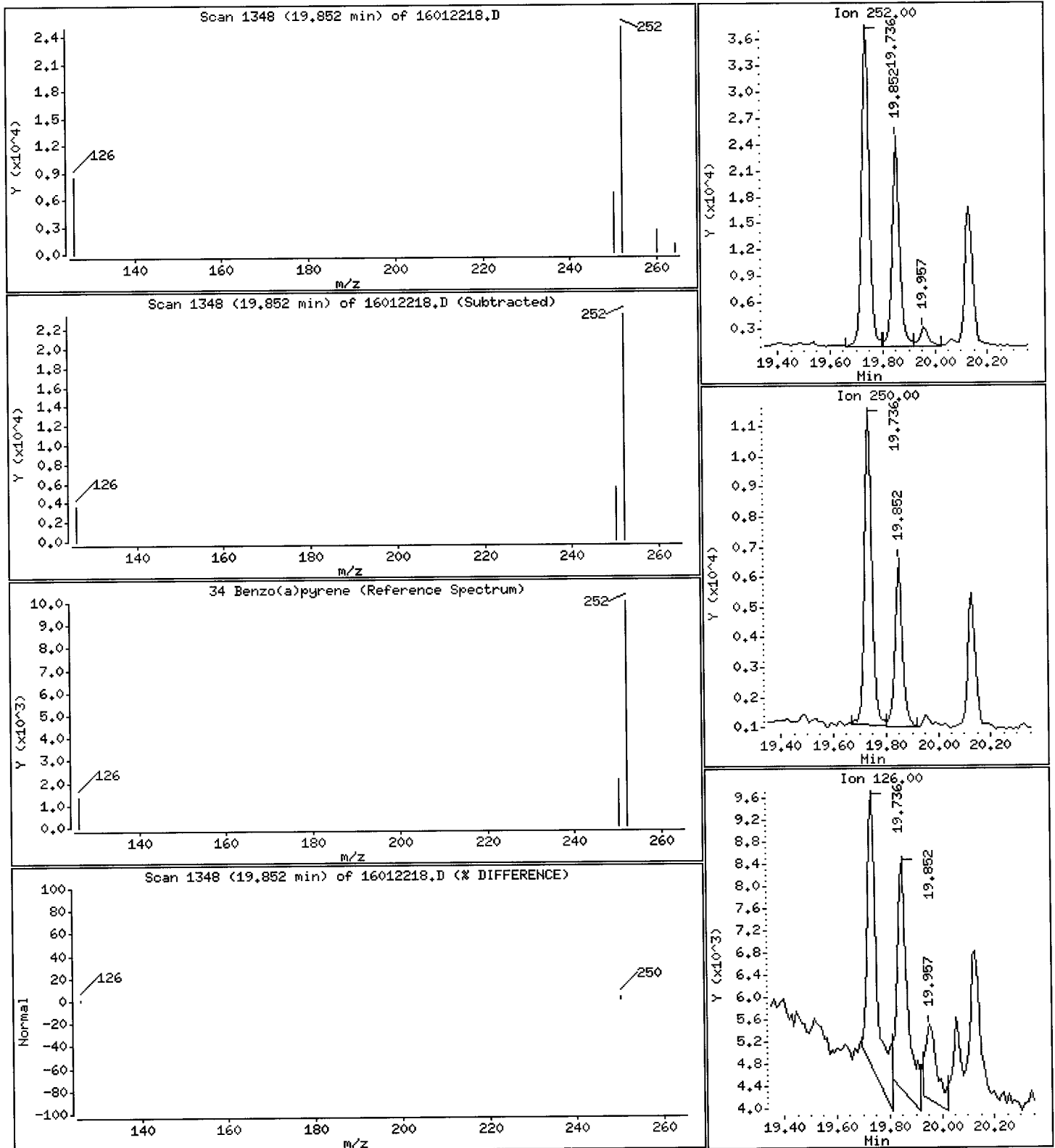
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 1130 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SMA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: AT50F

Volume Injected (uL): 2.0

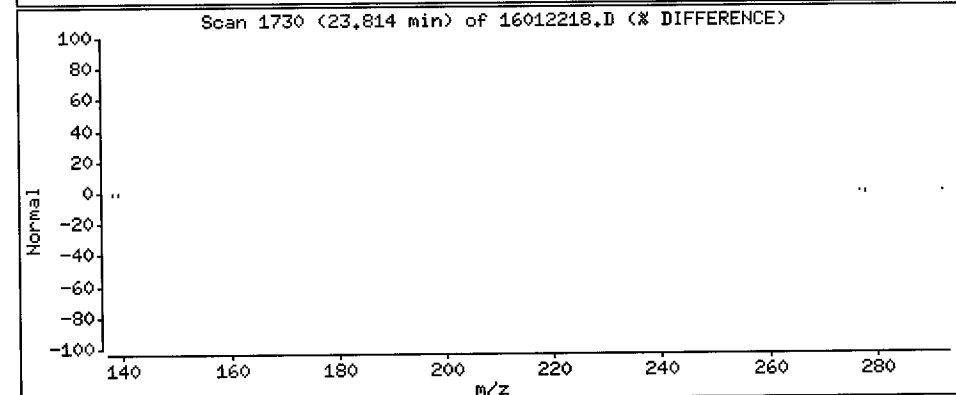
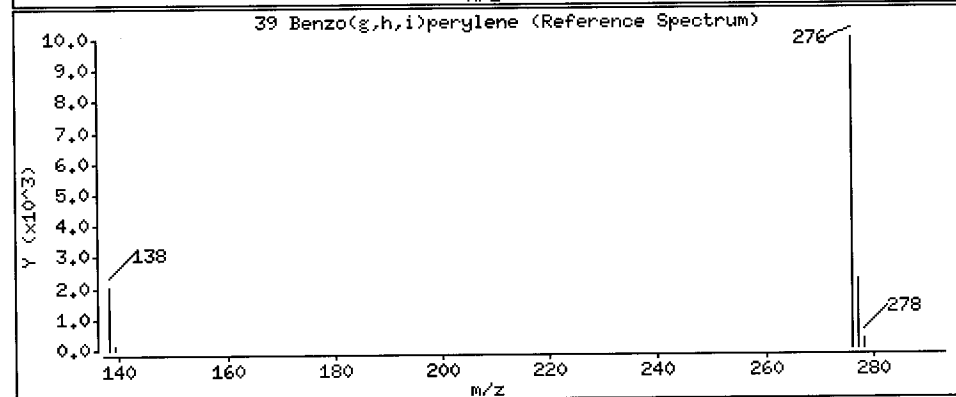
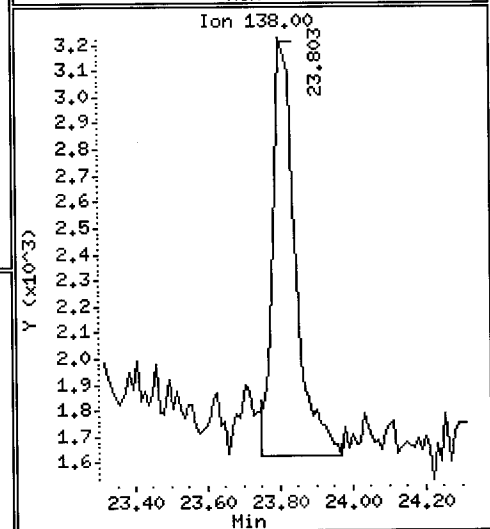
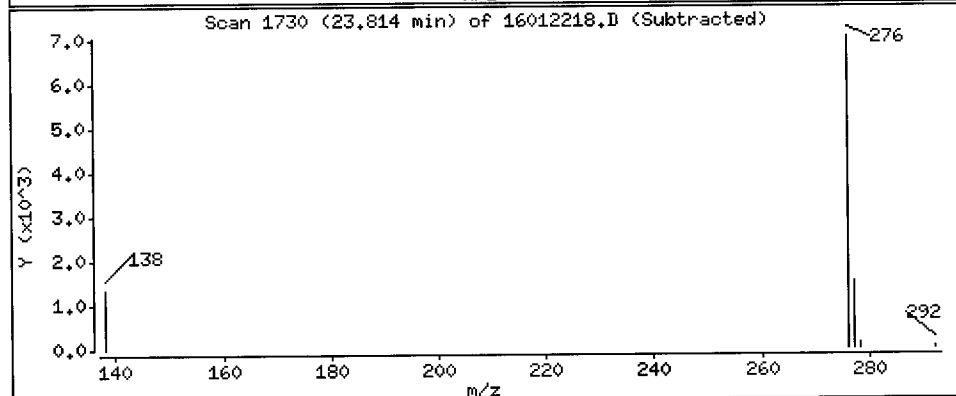
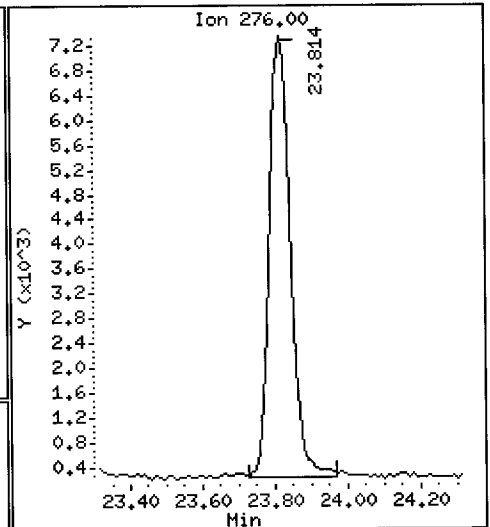
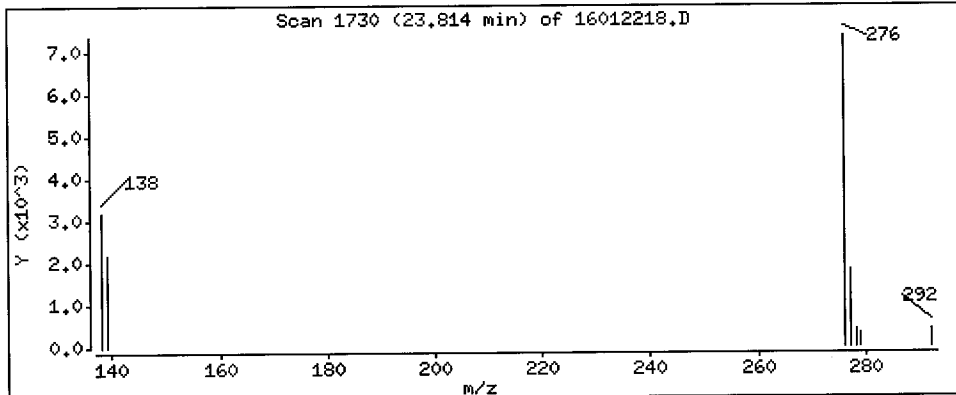
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

39 Benzo(g,h,i)perylene

Concentration: 710 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SHA2-4-MUS-COC-1

Instrument: nt11.i

Sample Info: ATSOE

Volume Injected (uL): 2.0

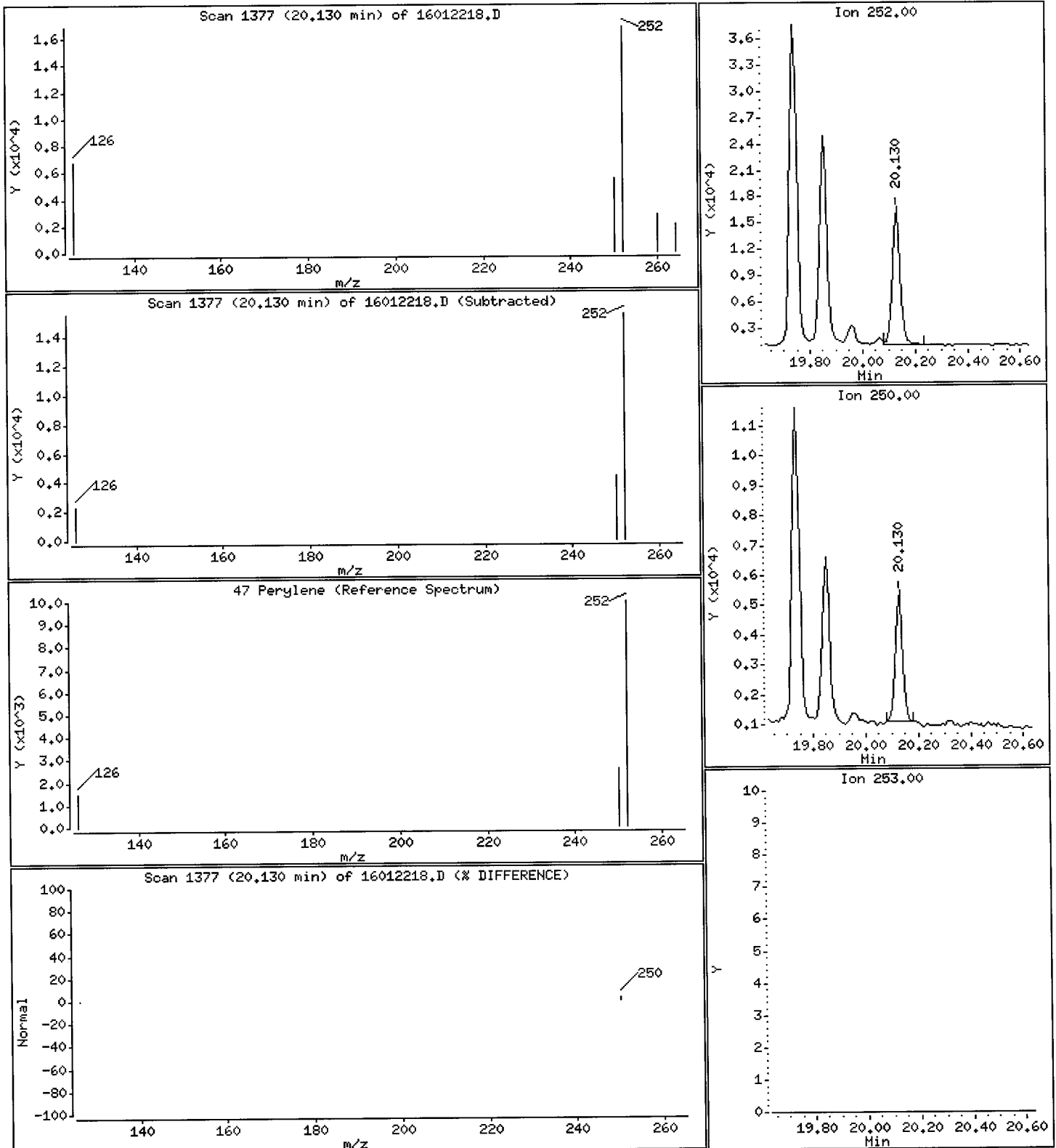
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

47 Perylene

Concentration: 755 ug/kg



Date : 22-JAN-2016 15:59

Client ID: PG-SHA2-4-MUS-CDC-1

Instrument: nt11.i

Sample Info: ATSO F

Volume Injected (uL): 2.0

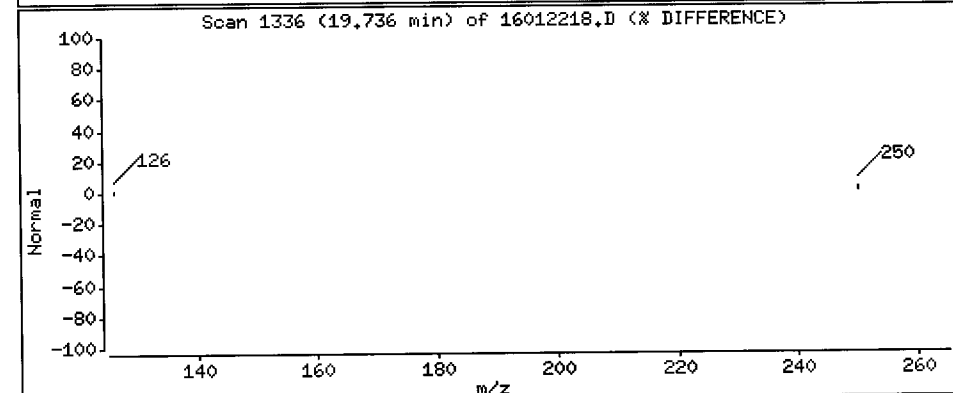
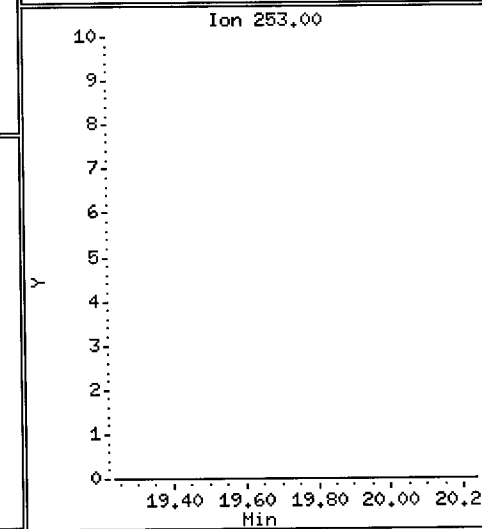
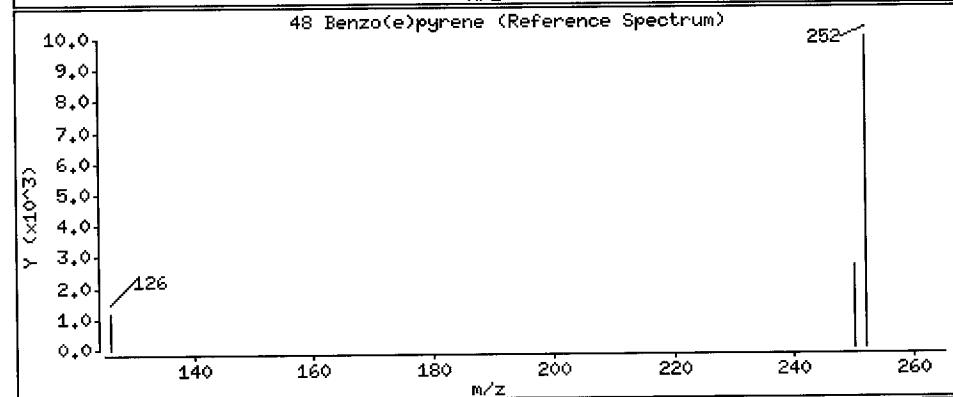
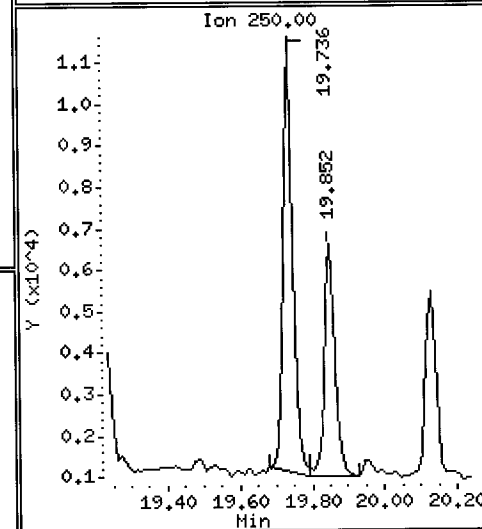
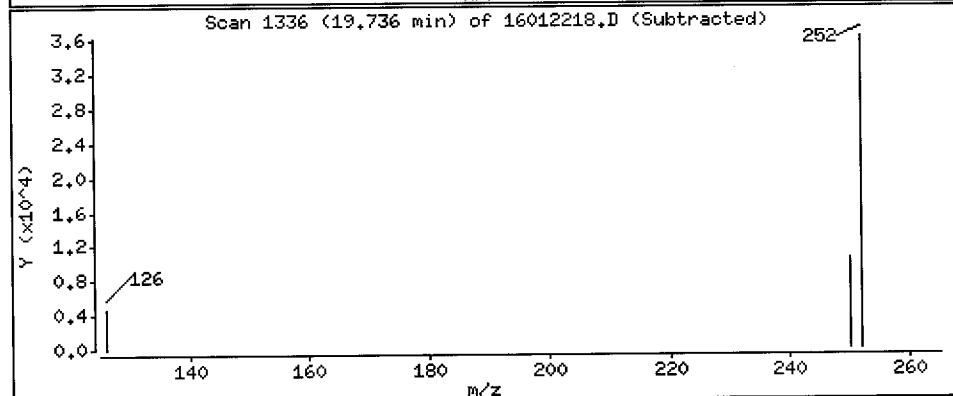
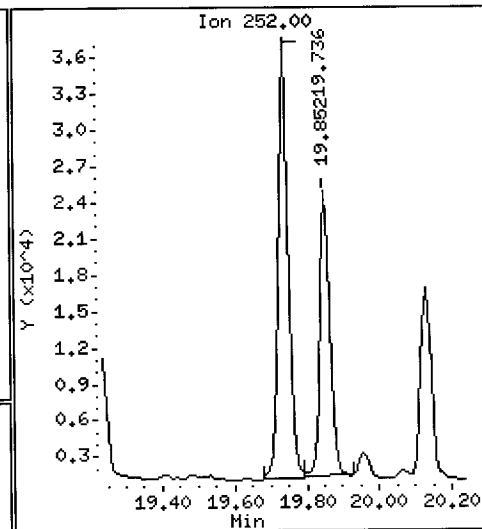
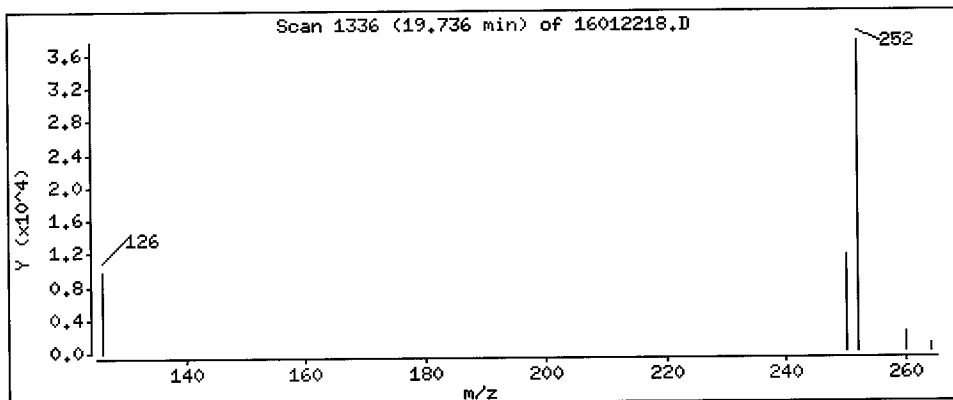
Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25

48 Benzo(e)pyrene

Concentration: 1580 ug/kg



Lab ID: AT50F

nt11.i, 20160122.b\lowsim.m, 22-JAN-2016 15:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

On Column LOD for nt11.i,20160122.b\lowsim.m,Sublist: PEMD.sub = 3.0000

- Exception: Naphthalene 7.0000
- Exception: Phenanthrene 2.5000
- Exception: Anthracene 2.0000
- Exception: Pyrene 4.0000
- Exception: Benzo(j)fluoranthene 2.5000
- Exception: Benzo(a)pyrene 2.0000
- Exception: Perylene 3.5000
- Exception: Benzo(e)pyrene 2.0000
- Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
- Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
- Exception: Fluoranthene-d10 (Surr) 0.1000

Dioxin Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: AT50



ARI Job No.: AT50

Client ID: Anchor QEA, LLC

Batch ID: _____

Parameter: Dioxin

Client Project: Port Gamble Clean-up

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
ATSO - A-F - NO Client ID Label on the jar for ID check the ID on the lid of sample jar matched the Lims sheets.	
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

Dioxin Raw Data
Initial Calibration

ARI Job ID: AT50



Dioxin Curve 10/15/15

HR-GC/MS Analyst Notes / Data Review Checklist

ELEMENT/NWA: _____

Client ID: _____

Element Calibration Code: *YS00017*

METHOD: *1613B* (Dioxins) *8290A* (Dioxins)

Instrument: **AutoSpec01**

Analysis Start Date: _____

Resolution Check > 10,000ppm ^{REVIEW 1/REVIEW 2} *Y/N* / _____

Signal / Noise ≥ 3.0? ^{REVIEW 1/REVIEW 2} Y / N / _____

TCDD /TCDF Resolution ≤ 25% *Y* / N / _____

Extraction STD Limits Met? Y / N / _____

PCDF Windows Verified *Y* / N / _____

Cleanup STD Limits Met? Y / N / _____

ICV/CCV %D limits met? Y / N / _____

Method Blank in Control? Y / N / _____

ICV/CCV Ratios limits met? Y / N / _____

OPR Recovery Limits Met? Y / N / _____

ICV/CCV RRT limits met? Y / N / _____

Values Exceeding Curve Range? Y / N / _____

Manual Integrations? Y / N / _____

Samples Diluted? Y / N / _____

VDP Completed? NA / Y / N / _____

Duplicate Sample RPD ≤ 25%? NA / _____

EPA Case # NA / _____

Technical Review? _____ / _____

Detail problems, corrective actions and/or other pertinent information below:

- TCDD/TCDF are 5 point curves: CS1 - CS5.
- All others are 6 points: CSL - CS5.
- All cpds = 20% RSD. All curves Avg.

(Review 1)Analyst: *Alexis* Date: *10/16/15*

(Review 2)Peer: _____ Date: _____

(Final Review)Reviewer: _____ Date: _____

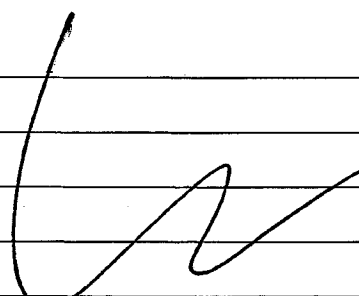
Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.: GC=CN10921030, MS=P764

Date: 10/15/15 Analysis: Dioxins Analyst: jk
 GC Program: 8290D Column No: D820 Column Type: MAXDIORINE
 Inj Vol: 1ul Instrument Tune (IPR): Oct 15 1-5 Detector Voltage: 330
 Resolution Check Files: 14:08, 21-21 Curve Date: 10/15/15

IS/SS	Ical/Ccal	LCS/ICV
	D623	
D1086	C125	C2712
	D621	
	D4214	
	B2539	
	B2536	
	C3204	

#	Acq Date	Acq Time	File	ID	Comments
1	15-Oct-15	13:06:33	15101502	CS3WD	
2	15-Oct-15	14:11:47	15101503	ISC01	
3	15-Oct-15	15:02:44	15101504	CSL	
4	15-Oct-15	16:02:00	15101505	CS1	
5	15-Oct-15	16:52:59	15101506	CS2	
6	15-Oct-15	17:45:44	15101507	CS3	
7	15-Oct-15	18:38:36	15101508	CS4	
8	15-Oct-15	19:31:22	15101509	CS5	
9	15-Oct-15	20:24:17	15101510	ICV	
10	15-Oct-15	21:21:51	15101511	ISC02	



jk 10/16/15

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In Element LIMS

15101503

100

%

0

25.00 25.25 25.50 25.75 26.00 26.25 26.50 26.75 27.00

1: Voltage SIR 15 Channels EI+

319.8965

2.05e6

26.53

26.41

2378-TCDD

$14/90 = 15.6\%$

90

14

15101503

100

%

0

25.00 25.25 25.50 25.75 26.00 26.25 26.50 26.75 27.00

1: Voltage SIR 15 Channels EI+

303.9016

2.00e6

25.59

25.76

25.90

2378-TCDF

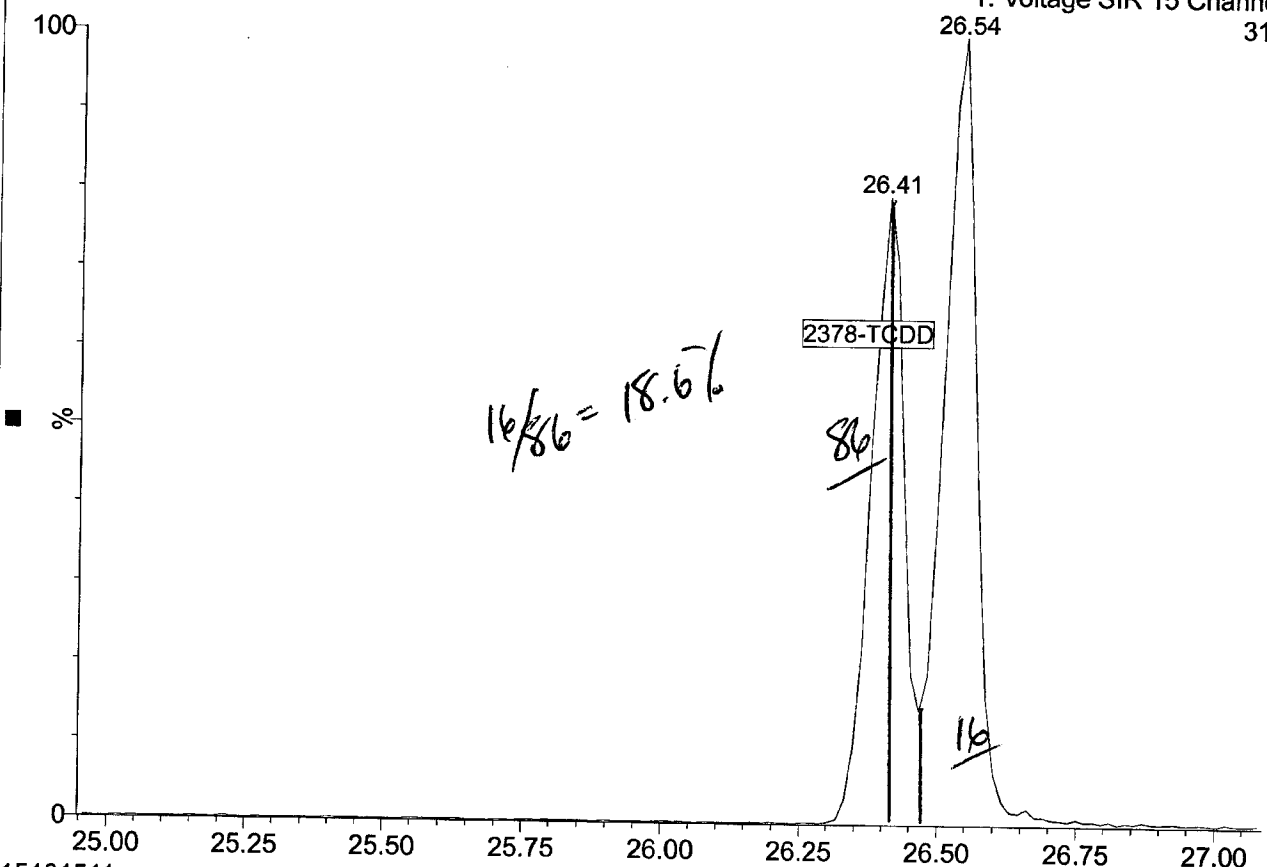
105

$13/105 = 12.4\%$

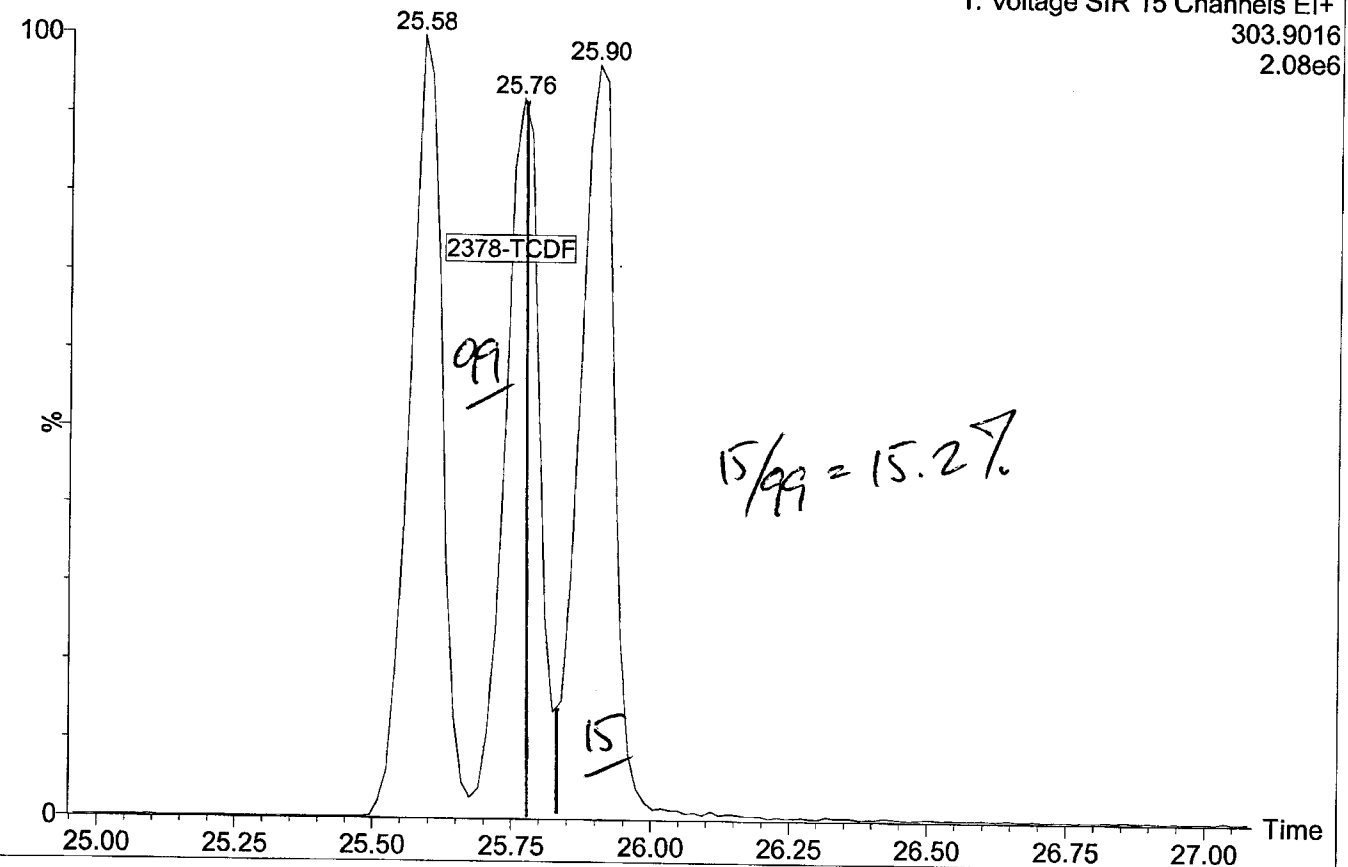
13

Time

15101511



15101511



15101602

100

%

0

22.00 23.00 24.00 25.00 26.00 27.00 28.00

1: Voltage SIR 15 Channels EI+
319.8965
2.58e6

23.57

1368-TCDD

25.60

26.08

26.41

27.00

1289-TCDD

15101602

100

%

0

22.00 23.00 24.00 25.00 26.00 27.00 28.00

1: Voltage SIR 15 Channels EI+
303.9016
3.06e6

22.30

1368-TCDF

24.87

25.76

27.24

1289-TCDF

15101602

100

%

0

22.00 23.00 24.00 25.00 26.00 27.00 28.00 Time

1: Voltage SIR 15 Channels EI+
339.8597
2.13e7

27.11

13468-PECDF

15101602

100

%

0

28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50

28.77

12479-PECDD

2: Voltage SIR 11 Channels EI+

355.8546

1.11e7

31.49

12389-PECDD

31.89

15101602

100

%

0

28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50

28.76

29.89

31.24

32.26

12389-PECDF

2: Voltage SIR 11 Channels EI+

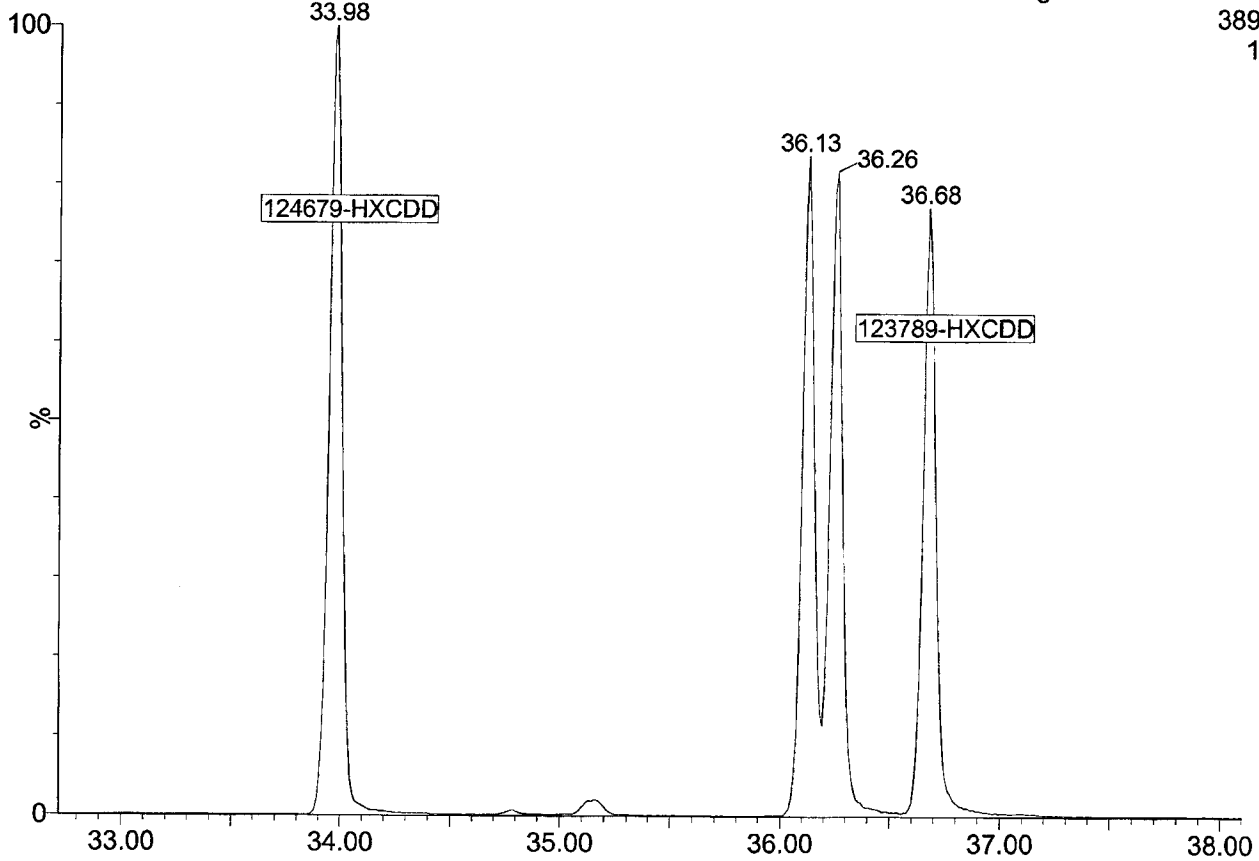
339.8597

1.39e7

Time

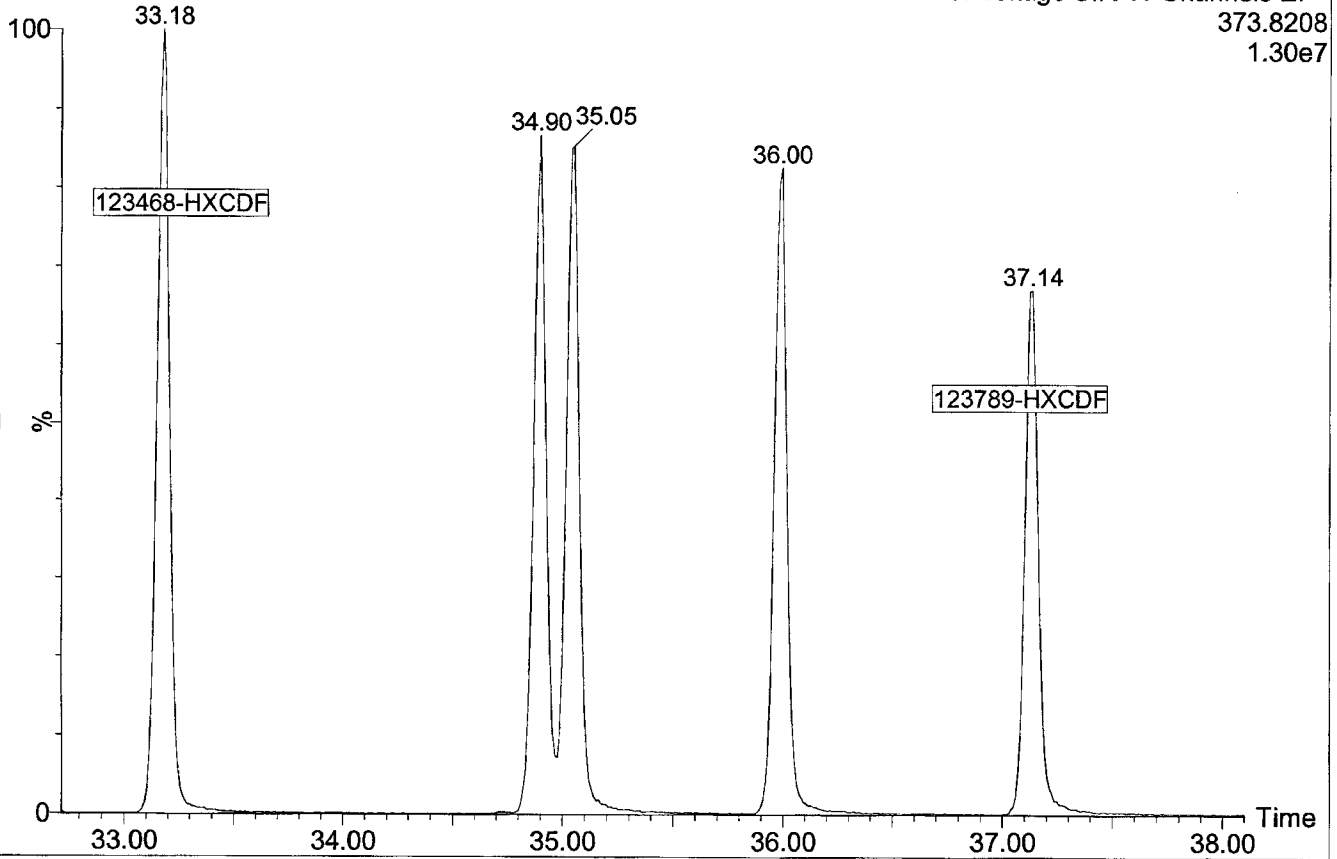
15101602

3: Voltage SIR 11 Channels EI+
389.8157
1.16e7



15101602

3: Voltage SIR 11 Channels EI+
373.8208
1.30e7

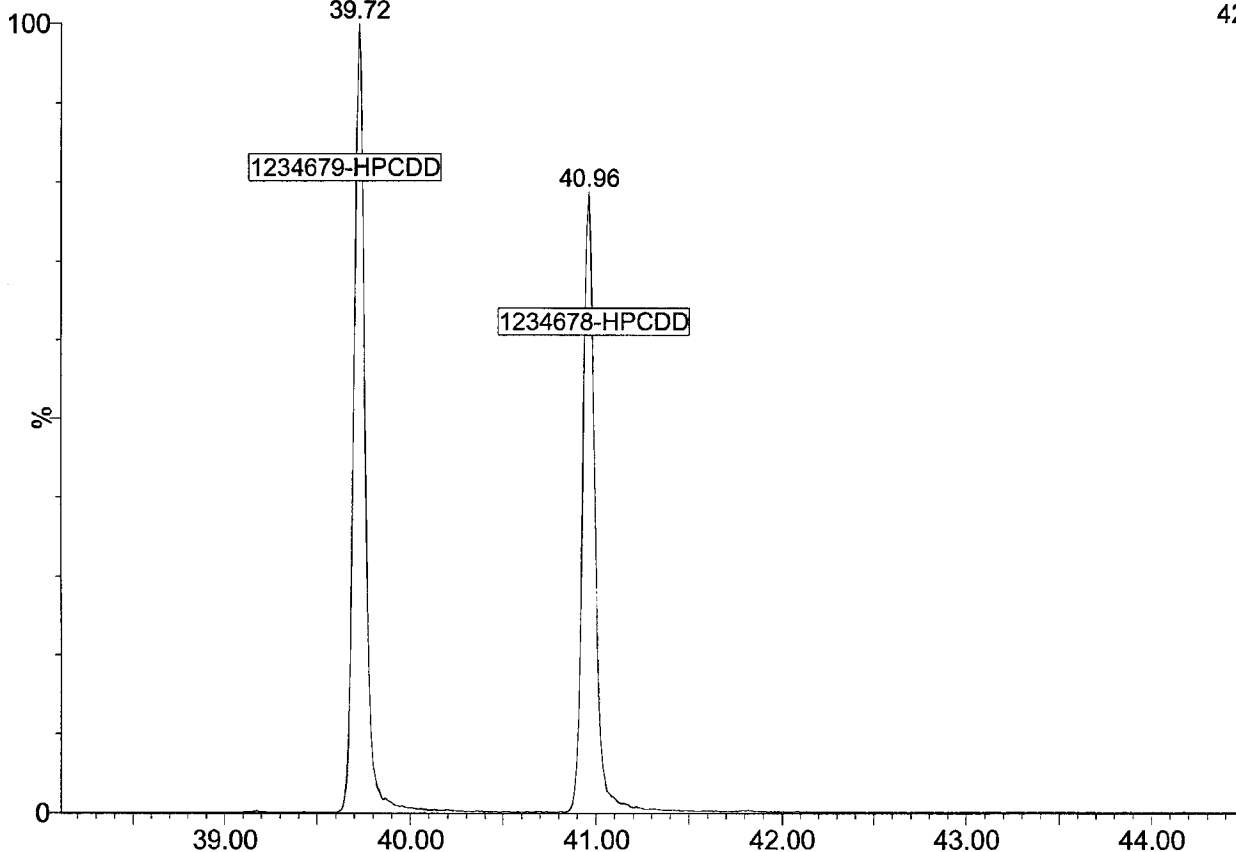


15101602

4: Voltage SIR 11 Channels EI+

423.7766

8.40e6

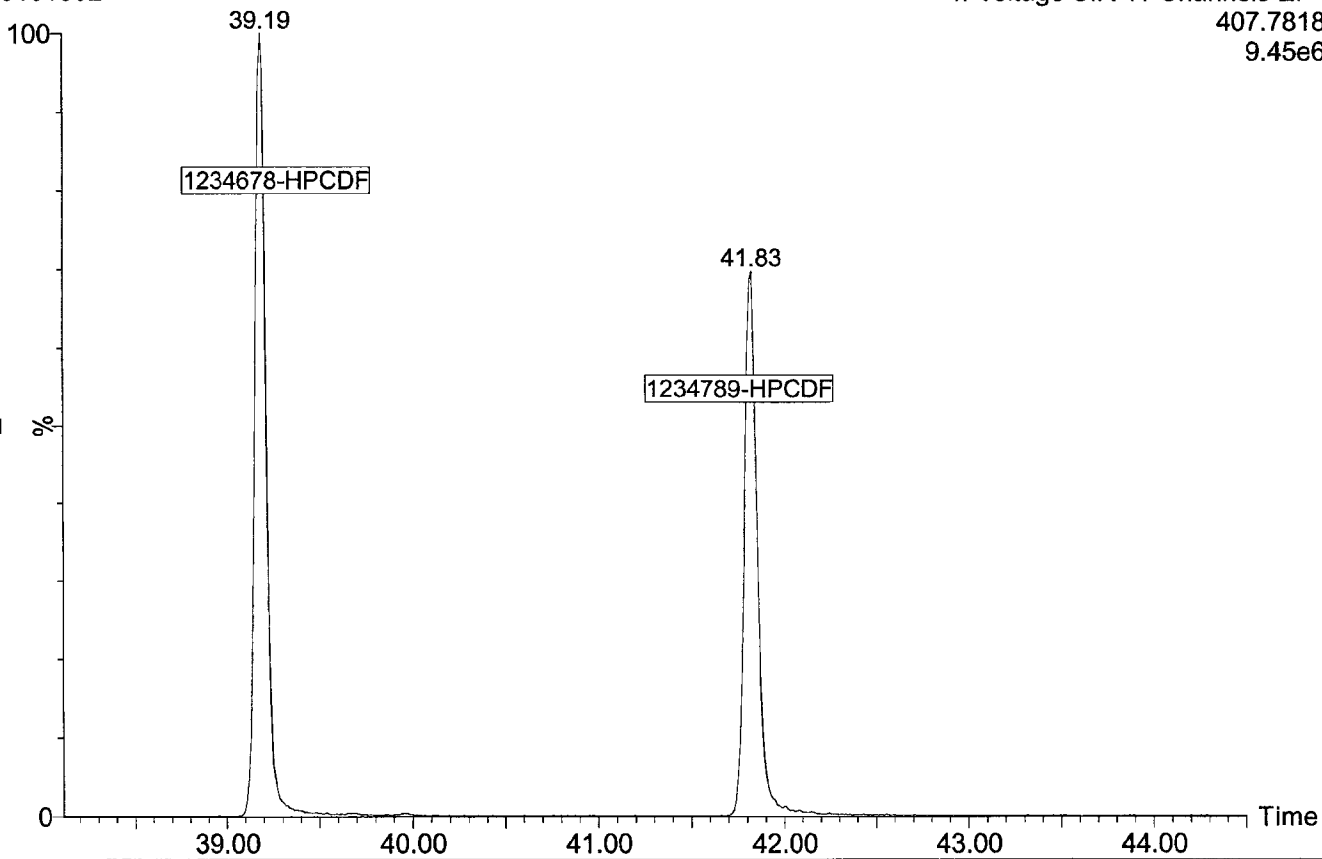


15101602

4: Voltage SIR 11 Channels EI+

407.7818

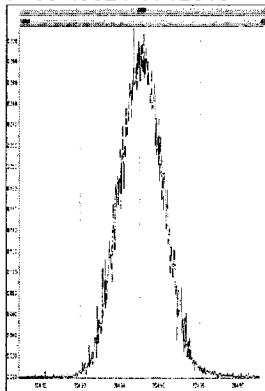
9.45e6



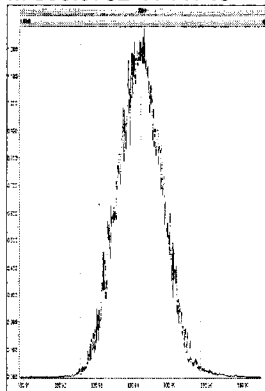
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 Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
 Printed: Friday, October 16, 2015 11:05:14 Pacific Daylight Time

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Process Calibrate		
Pre modification peak	Sample:15101504, Compound:HF, RT:35.021	1
Pre modification peak	Sample:15101504, Compound:HF, RT:35.032	1
Pre modification peak	Sample:15101505, Compound:TF, RT:25.749	2
Pre modification peak	Sample:15101505, Compound:HPF, RT:41.805	2
Pre modification peak	Sample:15101506, Compound:TF, RT:25.735	3
Pre modification peak	Sample:15101506, Compound:TF, RT:25.735	3
Pre modification peak	Sample:15101504, Compound:PF, RT:31.206	1
Pre modification peak	Sample:15101504, Compound:HD, RT:36.654	1
Pre modification peak	Sample:15101505, Compound:OD, RT:46.682	2
Peak modified	Sample:15101504, Compound:HF, RT:35.021	1
Peak modified	Sample:15101504, Compound:HF, RT:35.032	1
Peak modified	Sample:15101505, Compound:TF, RT:25.749	2
Peak modified	Sample:15101505, Compound:HPF, RT:41.805	2
Peak modified	Sample:15101506, Compound:TF, RT:25.735	3
Peak modified	Sample:15101506, Compound:TF, RT:25.735	3
Peak modified	Sample:15101506, Compound:TF, RT:25.735	3
Peak modified	Sample:15101504, Compound:PF, RT:31.206	1
Peak modified	Sample:15101504, Compound:HD, RT:36.654	1
Peak modified	Sample:15101505, Compound:OD, RT:46.682	2
Peak deleted	Sample:15101504, Compound:TF, RT:25.734	1
Peak deleted	Sample:15101504, Compound:TD, RT:26.377	1
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\151015IC.qld'	
Dataset Saved	Saved to 'P:\DIOXIN8290.PRO\151015IC.qld'	
Dataset Created		
Calibration Saved	Saved to 'P:\DIOXIN8290.PRO\CurveDB\151015ICAL.cdb'	

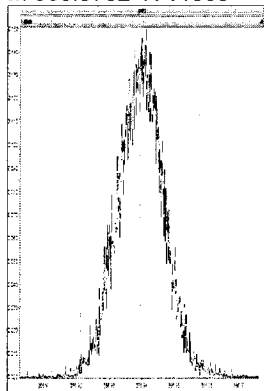
M 304.9824 R 12315



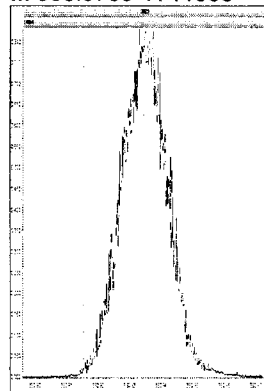
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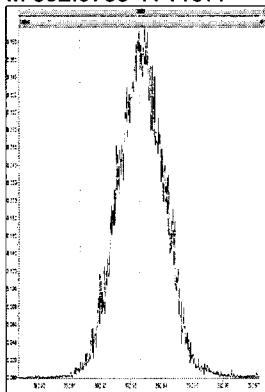
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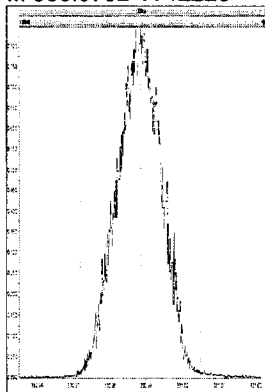
M 380.9760 R 11966



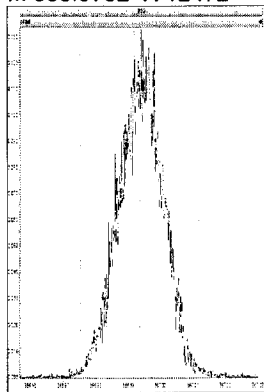
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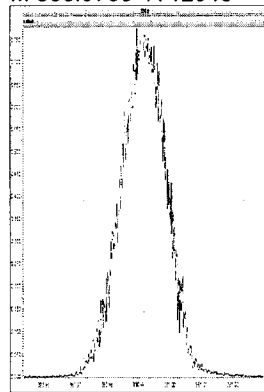
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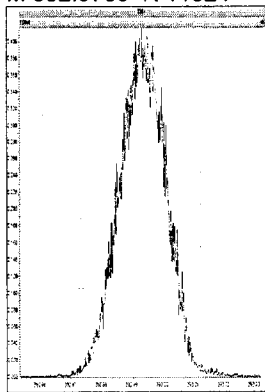
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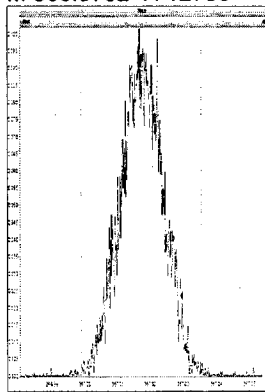
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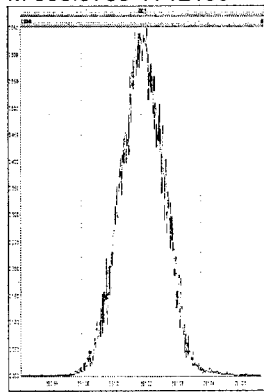
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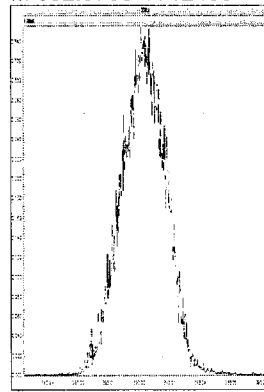
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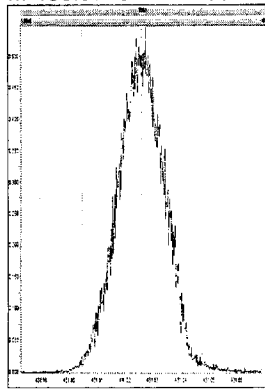
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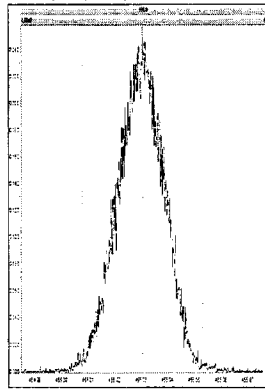
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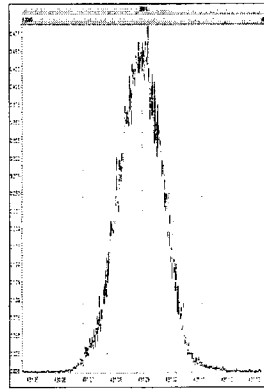
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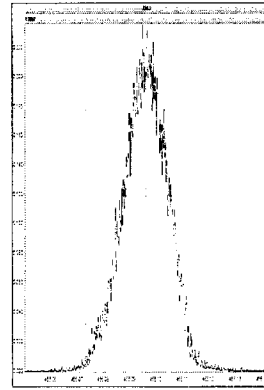
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M 430.9728 R 12165

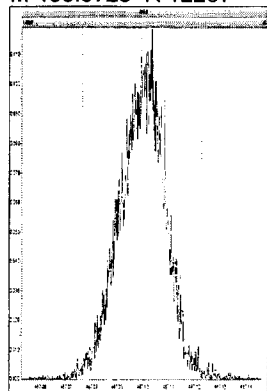


M 454.9728 R 11764

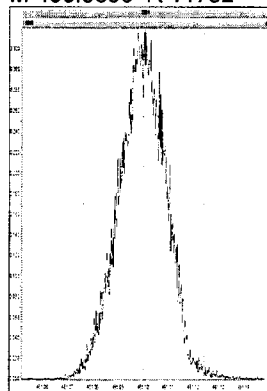


Printed: Thursday, October 15, 2015 14:08:48 Pacific Daylight Time

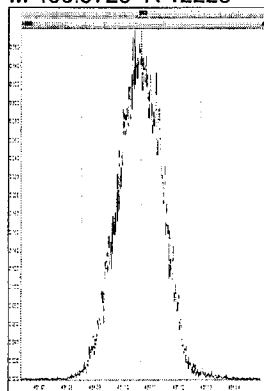
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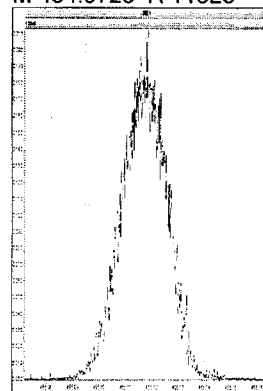
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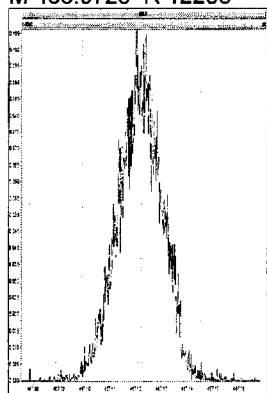
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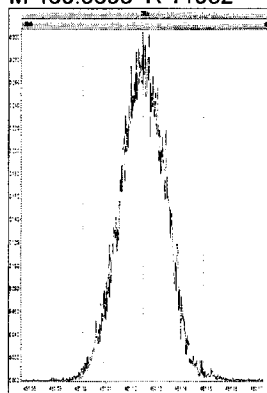
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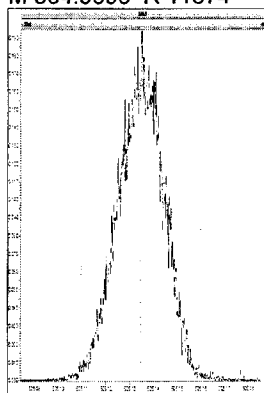
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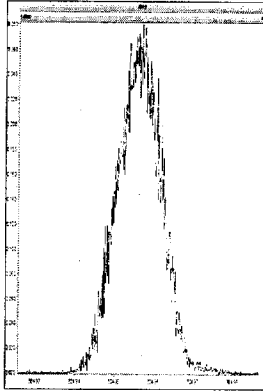
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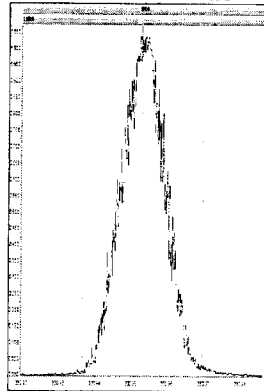
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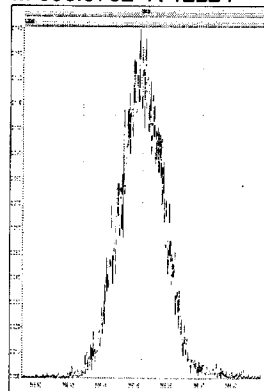
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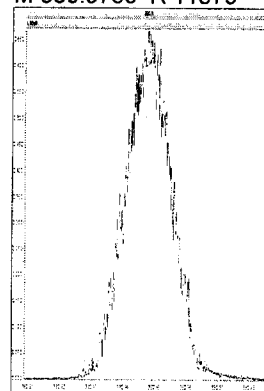
M 330.9792 R 12825



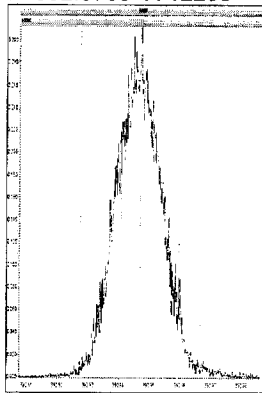
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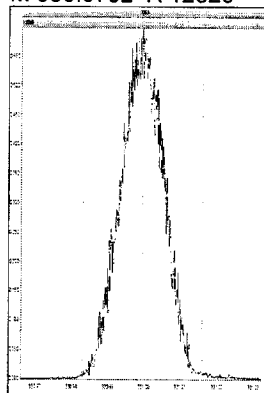
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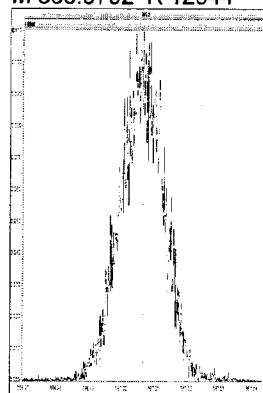
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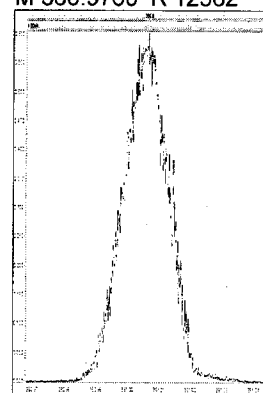
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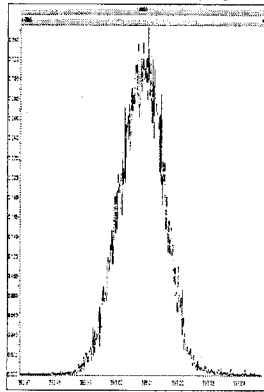
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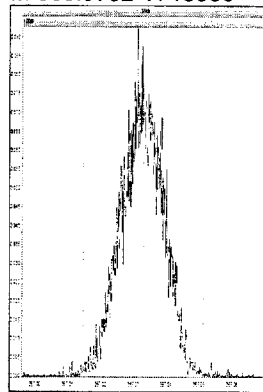
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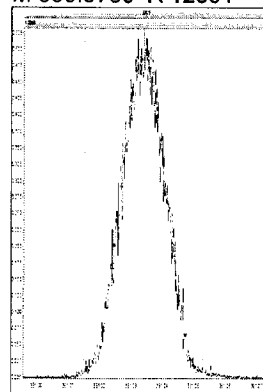
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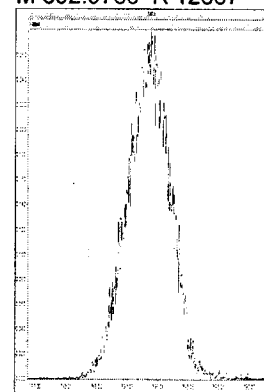
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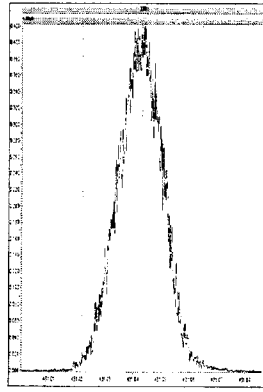
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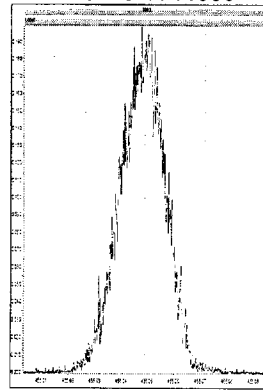
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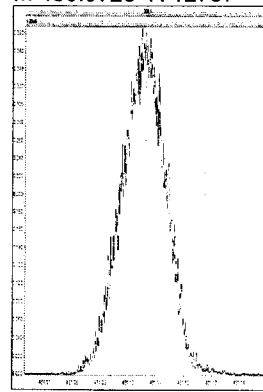
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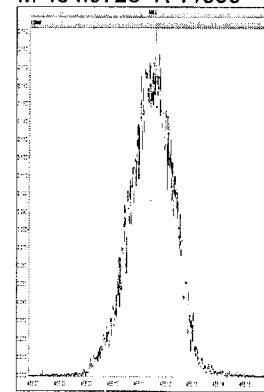
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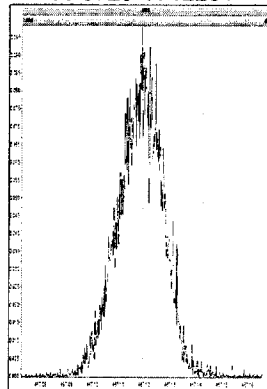
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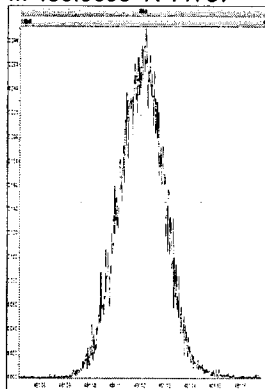
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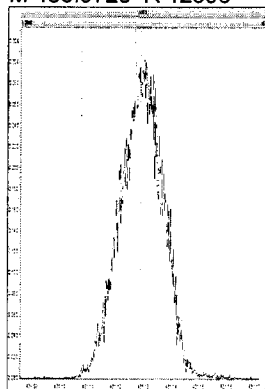
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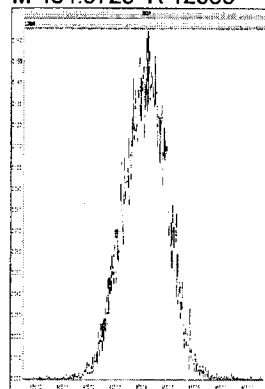
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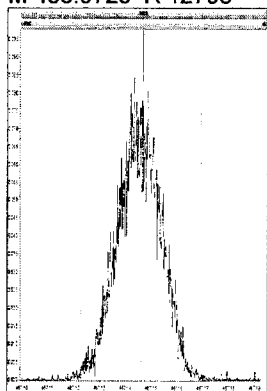
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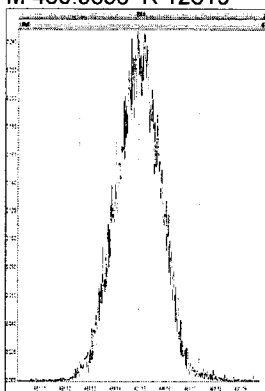
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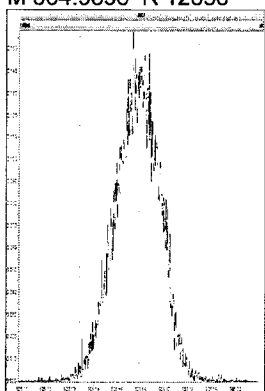
M 466.9728 R 12795



M 480.9696 R 12319



M 504.9696 R 12658



Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:49:55 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1510153SN.mdb 15 Oct 2015 16:11:27

Calibration: P:\DIOXIN8290.PRO\CurveDB\1510151CAL.cdb 16 Oct 2015 09:47:27

ID: CSL, Name: 15101504, Date: 15-Oct-2015, Time: 15:02:44, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF					0.827		0.770	485	1056						
12378-PeCDF	29.869	1.000	6.57e3	4.76e3	0.824	1.382	1.550	904	1177	8.53e4	6.51e4	94.4	NO	0.474	0.474
23478-PeCDF	31.206	1.000	6.69e3	4.60e3	0.850	1.454	1.550	904	1177	1.02e5	6.96e4	112.6	NO	0.475	0.475
123478-HxCDF	34.867	1.000	5.40e3	4.39e3	0.973	1.230	1.240	744	561	7.07e4	5.60e4	95.0	NO	0.474	0.474
234678-HxCDF	35.963	1.000	5.26e3	4.61e3	1.025	1.141	1.240	744	561	7.05e4	7.02e4	94.7	NO	0.470	0.470
123678-HxCDF	35.021	1.000	5.63e3	5.10e3	0.953	1.105	1.240	744	561	8.34e4	7.01e4	112.0	NO	0.472	0.472
123789-HxCDF	37.103	1.000	5.14e3	4.39e3	0.956	1.170	1.240	744	561	7.11e4	6.09e4	95.6	NO	0.520	0.520
1234678-HpCDF	39.164	1.000	4.92e3	5.13e3	1.153	0.960	1.050	578	517	7.40e4	8.02e4	128.0	NO	0.489	0.489
1234789-HpCDF	41.795	1.000	3.51e3	3.75e3	1.131	0.935	1.050	578	517	4.39e4	5.17e4	75.9	NO	0.450	0.450
OCDF	46.943	1.006	6.33e3	7.56e3	1.023	0.838	0.890	720	944	6.25e4	7.69e4	86.8	NO	0.907	0.907
2378-TCDD					1.023		0.770	1054	605						
12378-PeCDD	31.469	1.001	5.05e3	3.20e3	0.939	1.581	1.550	992	441	6.91e4	5.01e4	69.6	NO	0.476	0.476
123478-HxCDD	36.106	1.001	4.40e3	3.70e3	0.963	1.188	1.240	776	794	5.97e4	5.71e4	77.0	NO	0.478	0.478
123678-HxCDD	36.237	1.001	4.76e3	4.01e3	0.894	1.186	1.240	776	794	6.50e4	5.95e4	83.8	NO	0.504	0.504
123789-HxCDD	36.654	1.012	4.61e3	3.47e3	0.900	1.327	1.240	776	794	6.29e4	5.45e4	81.0	NO	0.485	0.485
1234678-HpCDD	40.940	1.000	3.51e3	3.46e3	0.964	1.015	1.050	577	531	4.71e4	3.99e4	81.6	NO	0.463	0.463
OCDD	46.674	1.000	7.05e3	7.69e3	0.969	0.917	0.890	531	718	6.90e4	7.76e4	130.0	NO	1.016	1.016
13C-2378-TCDF	25.719	1.006	1.59e6	2.05e6	1.502	0.777	0.770	4767	2478	2.19e7	2.83e7	4595.4	NO	101.097	101.097
13C-2378-PeCDF	29.858	1.168	1.79e6	1.11e6	1.215	1.603	1.550	3616	2786	2.42e7	1.54e7	6685.8	NO	99.644	99.644
13C-23478-PeCDF	31.195	1.221	1.71e6	1.09e6	1.181	1.573	1.550	3616	2786	2.45e7	1.56e7	6762.9	NO	98.978	98.978
13C-23478-HxCDF	34.856	0.951	7.18e5	1.41e6	1.246	0.511	0.510	2704	5337	1.02e7	1.98e7	3775.3	NO	100.653	100.653
13C-23678-HxCDF	35.010	0.955	8.08e5	1.58e6	1.375	0.512	0.510	2704	5337	1.09e7	2.13e7	4045.0	NO	102.504	102.504
13C-234678-HxCDF	35.952	0.981	6.93e5	1.36e6	1.186	0.511	0.510	2704	5337	9.67e6	1.88e7	3577.9	NO	102.098	102.098
13C-23789-HxCDF	37.092	1.012	6.51e5	1.26e6	1.135	0.515	0.510	2704	5337	8.86e6	1.71e7	3276.9	NO	99.670	99.670
13C-234678-HpCDF	39.153	1.069	5.50e5	1.23e6	1.020	0.446	0.440	2443	3880	7.71e6	1.72e7	3157.9	NO	103.230	103.230
13C-234789-HpCDF	41.773	1.140	4.34e5	9.93e5	0.824	0.437	0.440	2443	3880	5.25e6	1.20e7	2149.4	NO	102.297	102.297
13C-234-TCDD	25.555	0.000	1.06e6	1.34e6	1.000	0.788	0.770	2931	1849	1.48e7	1.90e7	5036.6	NO	100.000	100.000
13C-2378-TCDD	26.362	1.032	9.94e5	1.26e6	0.983	0.787	0.770	2931	1849	1.39e7	1.74e7	4736.2	NO	95.915	95.915
13C-2378-PeCDD	31.447	1.231	1.13e6	7.16e5	0.787	1.573	1.550	2647	1211	1.59e7	1.01e7	5995.9	NO	97.787	97.787
13C-23478-HxCDD	36.084	0.985	9.80e5	7.79e5	1.031	1.258	1.240	1671	1737	1.40e7	1.12e7	8361.8	NO	100.738	100.738
13C-23678-HxCDD	36.215	0.988	1.08e6	8.64e5	1.137	1.252	1.240	1671	1737	1.47e7	1.17e7	8814.2	NO	101.126	101.126
13C-234678-HpCDD	40.918	1.117	7.98e5	7.64e5	0.892	1.044	1.050	2298	2622	9.97e6	9.59e6	4338.0	NO	103.400	103.400
13C-OCDD	46.665	1.273	1.39e6	1.60e6	0.852	0.868	0.890	2424	2603	1.38e7	1.55e7	5677.4	NO	207.609	207.609

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

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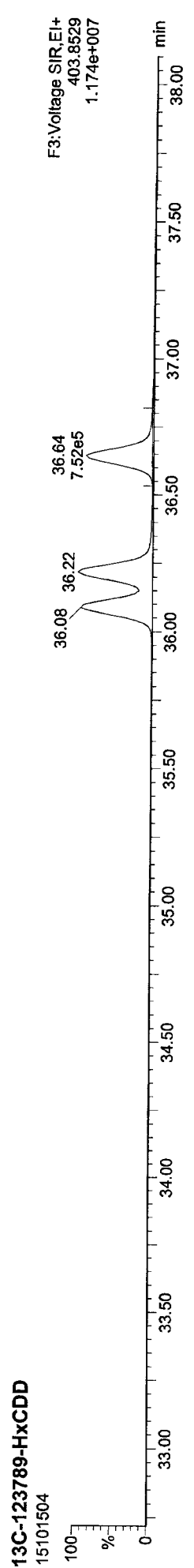
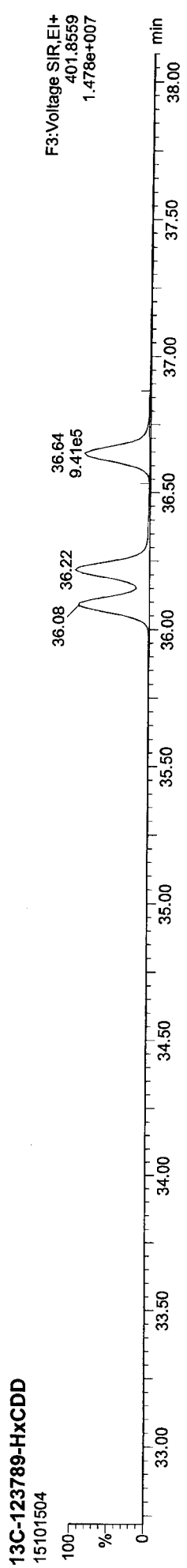
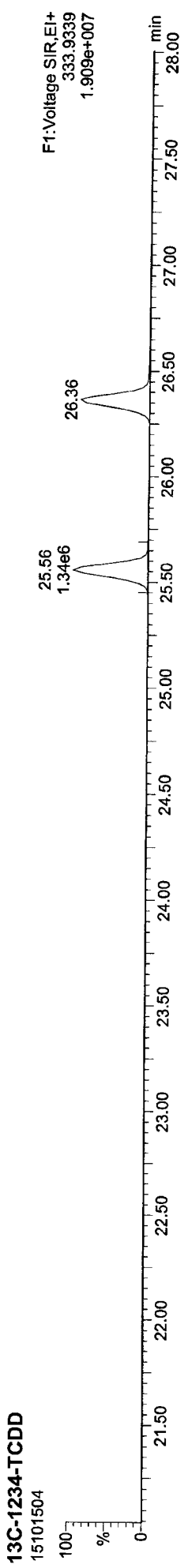
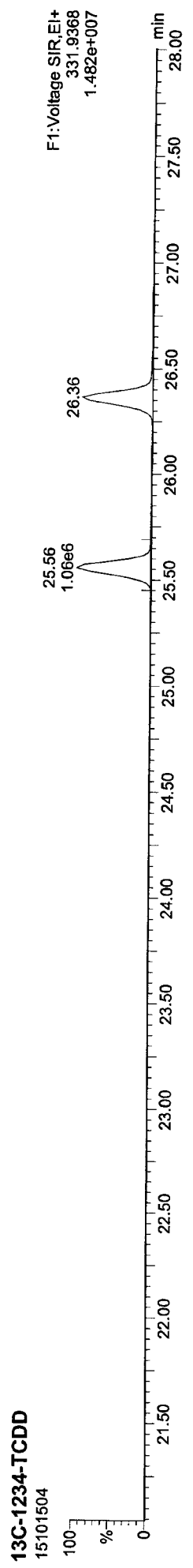
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ID: CSL, Name: 15101504, Date: 15-Oct-2015, Time: 15:02:44, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise1	Noise2	Height1	Height2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	36.643	0.000	9.41e5	7.52e5	1.000	1.252	1.240	1671	1737	1.29e7	1.05e7	7738.7	NO		100.000
Total-tetrafurans			0.00e0		0.827			485		0.00e0					
Total-penta1			0.00e0					637		0.00e0					
Total-penta1furans			1.33e4		0.837			904		1.87e5					0.949
Total-hexa1furans			2.14e4		0.977			744		2.96e5					1.936
Total-hepta1furans			8.43e3		1.142			578		1.18e5					0.939
Total-Furans			4.95e4		0.971			485		6.63e5					4.731
Total-tetra1dioxins			4.69e2		1.023			1054		6.87e3					0.029
Total-penta1dioxins			5.05e3		0.939			992		6.91e4					0.476
Total-hexa1dioxins			1.45e4		0.919			776		2.00e5					1.522
Total-hepta1dioxins			3.51e3		0.964			577		4.71e4					0.463
Total-Dioxins			3.06e4		0.950			1054		3.92e5					3.508
Total-TEQ			8.00e4					1054		1.06e6					8.238
37CL-2378-TCDD	26.377	1.032	2.51e3		1.091			1500		3.36e4		22.4			0.096
FUNCTION1 PFK			1.87e6					603060		3.14e7					
FUNCTION2 PFK			1.61e6					146963		2.27e7					0.000
FUNCTION3 PFK			1.19e6					505723		2.64e7					0.000
FUNCTION4 PFK			1.79e7					304568		5.90e7					
FUNCTION5 PFK			1.94e5					243188		8.67e6					
FUNCTION1 HXCDPE			0.00e0					477		0.00e0					
FUNCTION1 HPCDPE			3.32e2					653		7.06e3					0.000
FUNCTION2 HPCDPE			1.96e2					800		4.03e3					0.000
FUNCTION3 OCDPE			0.00e0					338		0.00e0					
FUNCTION4 NCDPE			0.00e0					765		0.00e0					
FUNCTION5 DCDPE			0.00e0					278		0.00e0					

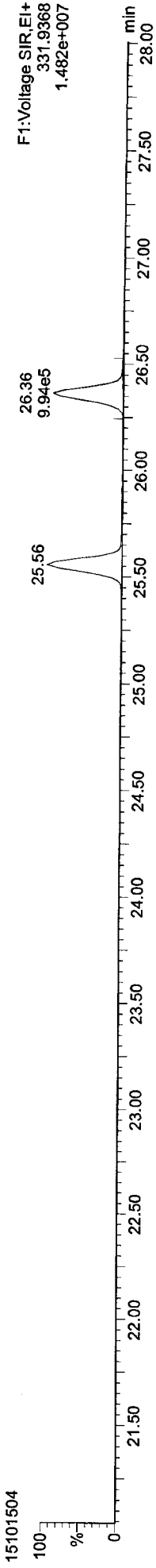
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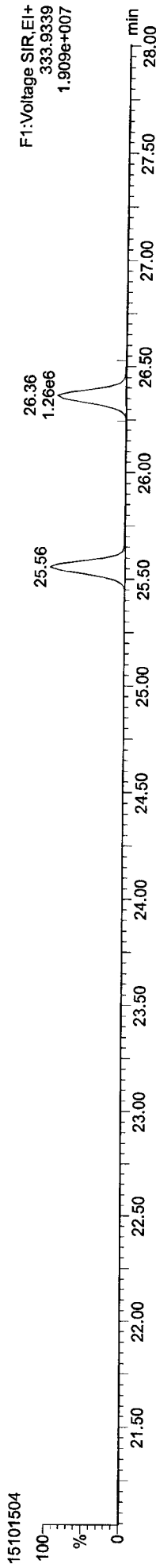


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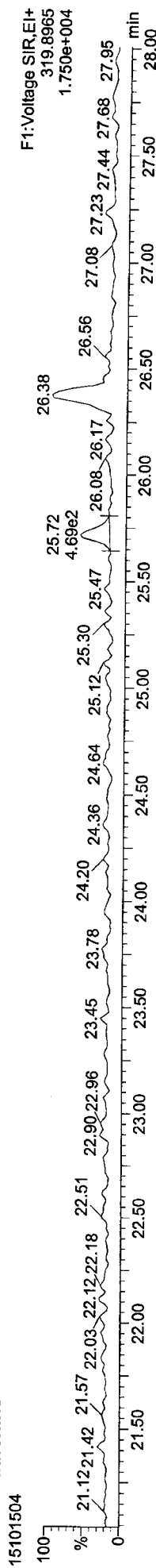
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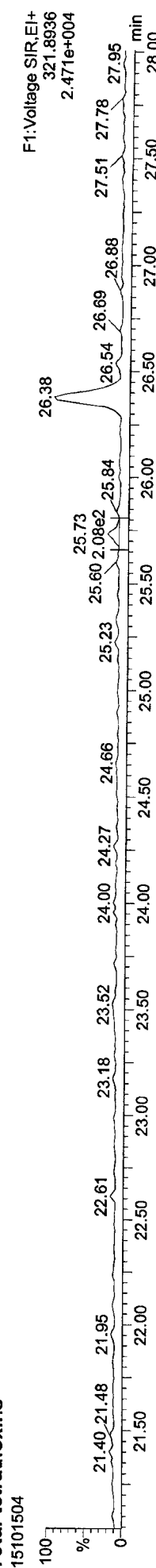
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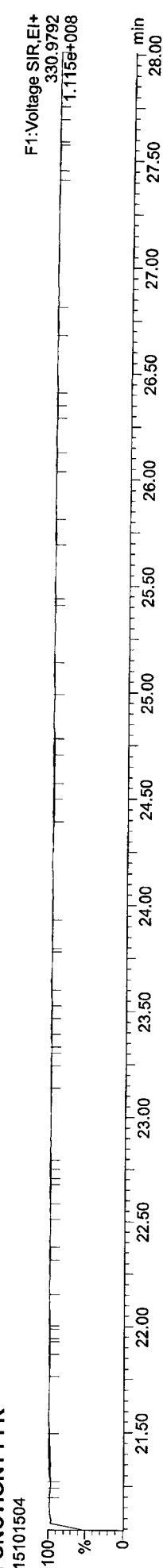
Total-tetradoxins



Total-tetradoxins



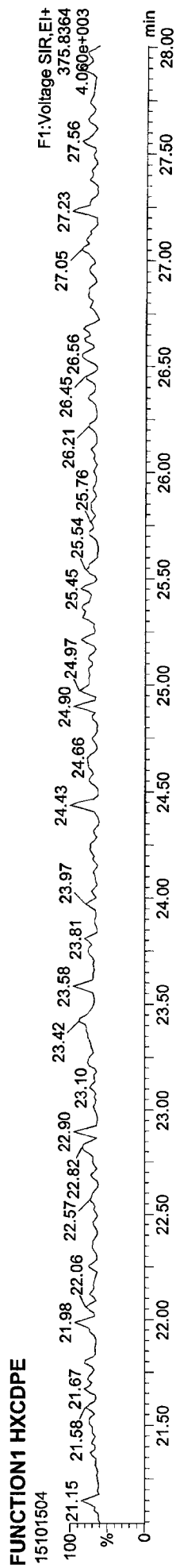
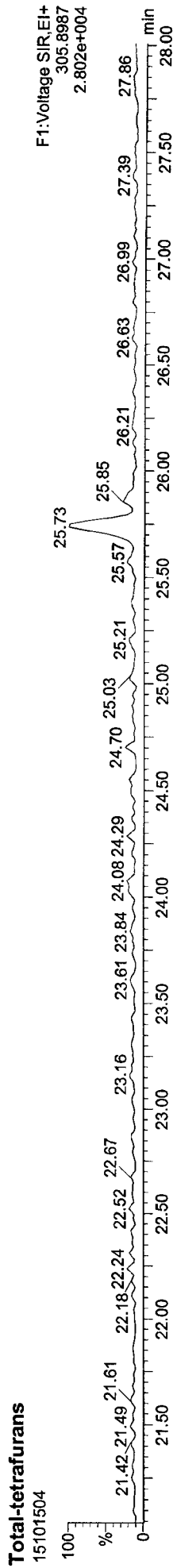
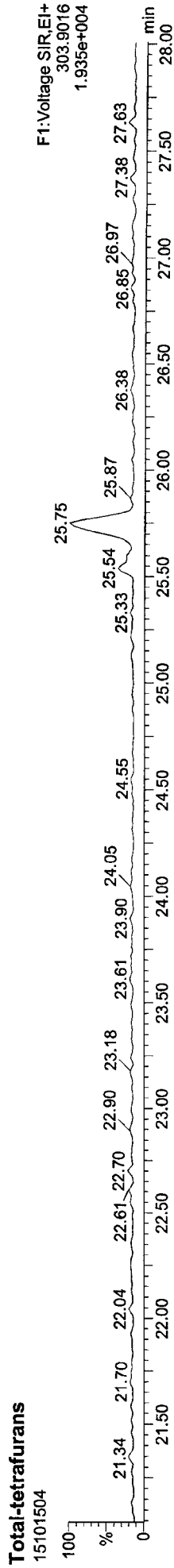
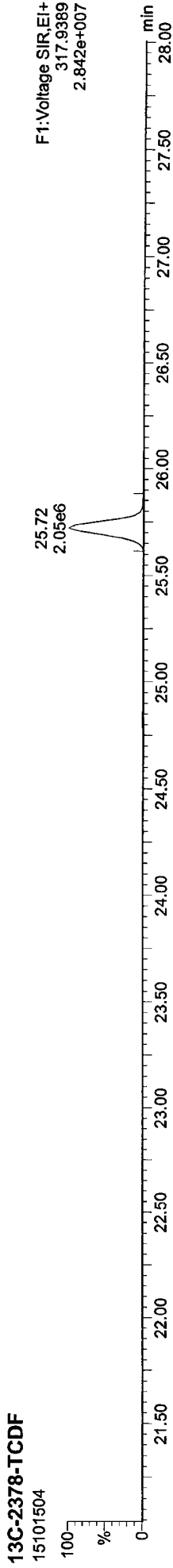
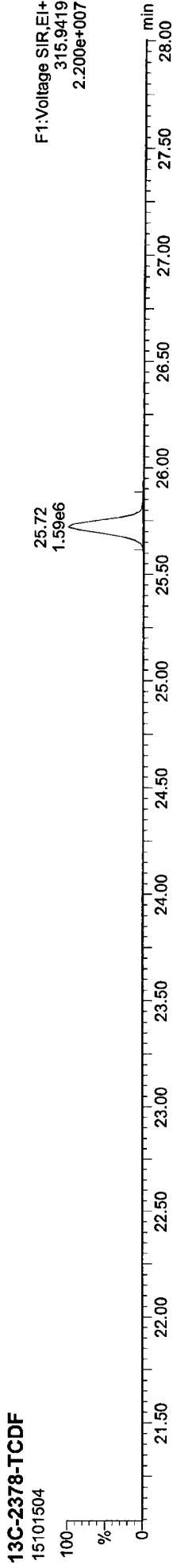
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

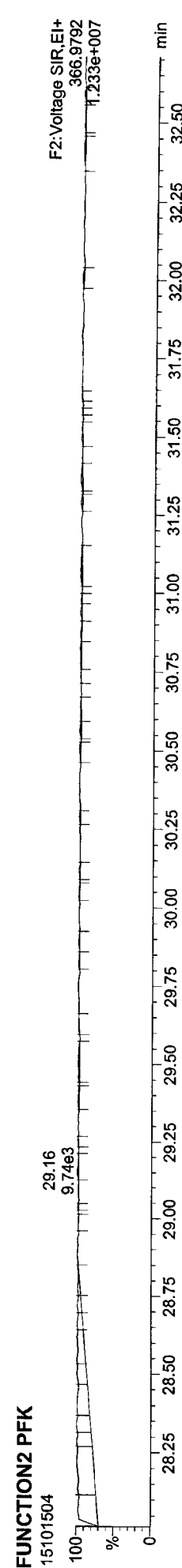
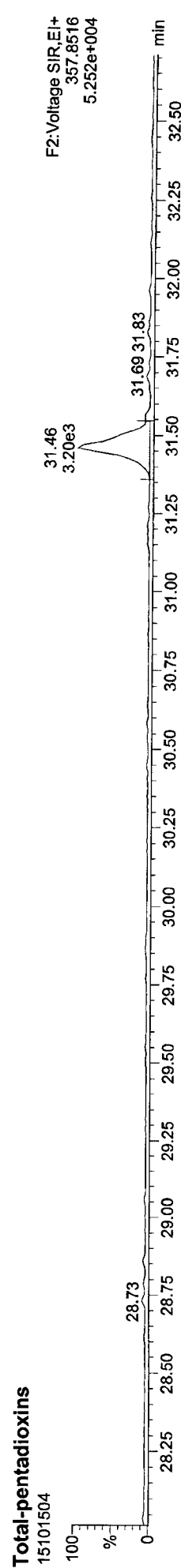
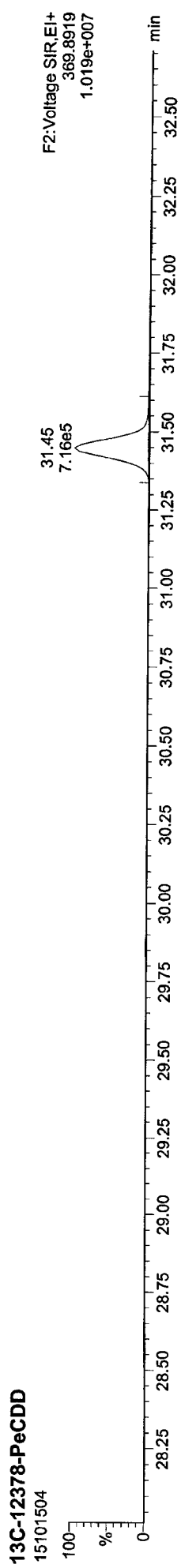
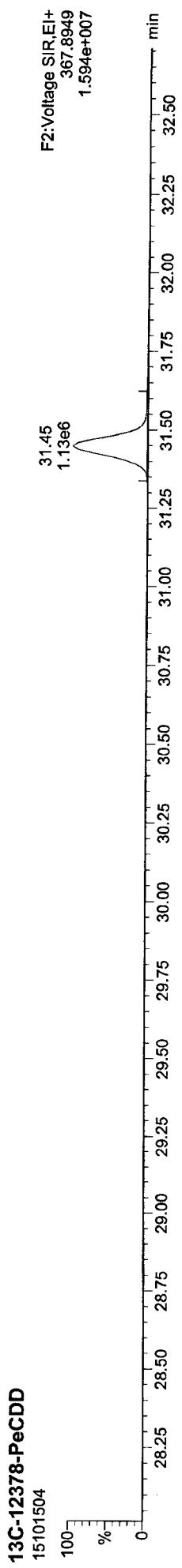
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Quantify Sample Report
Dataset: P:\DIOXIN8290.PRO\15101504.qld
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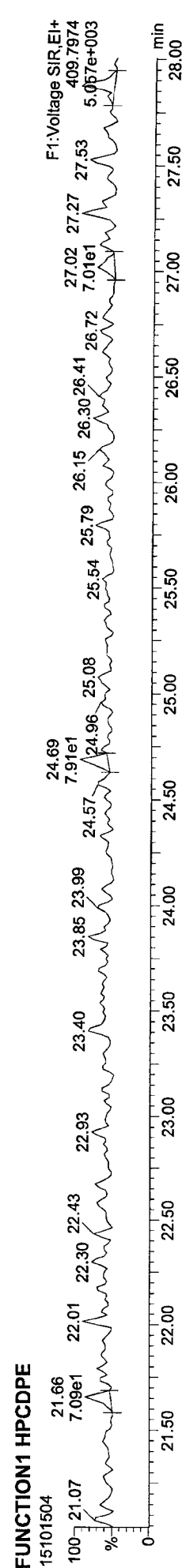
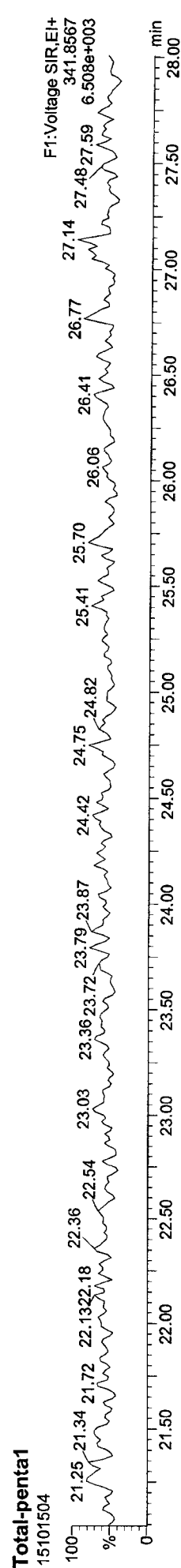
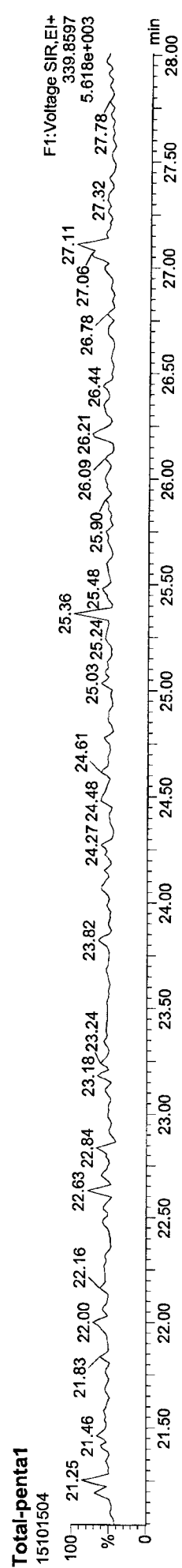
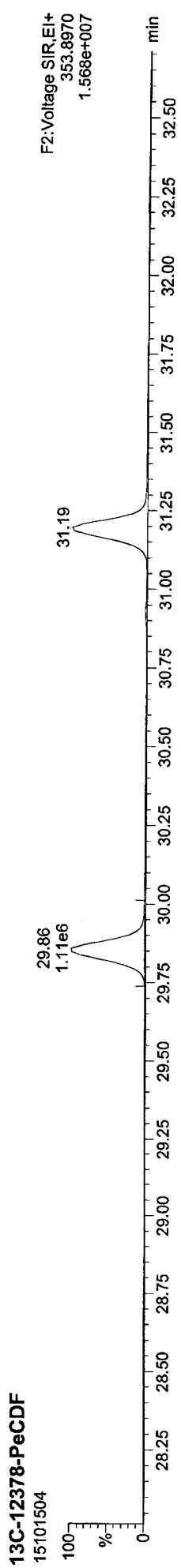
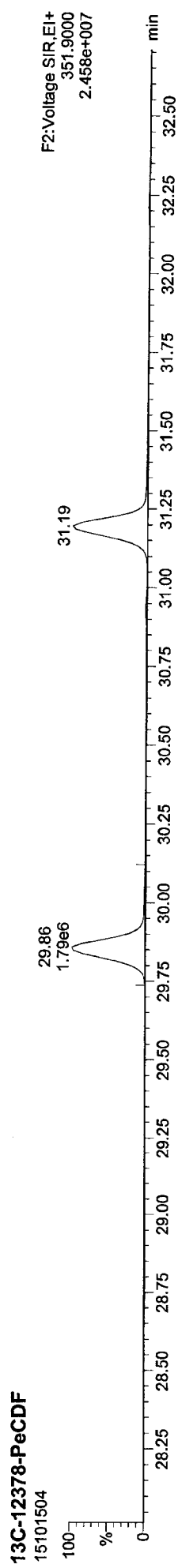
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

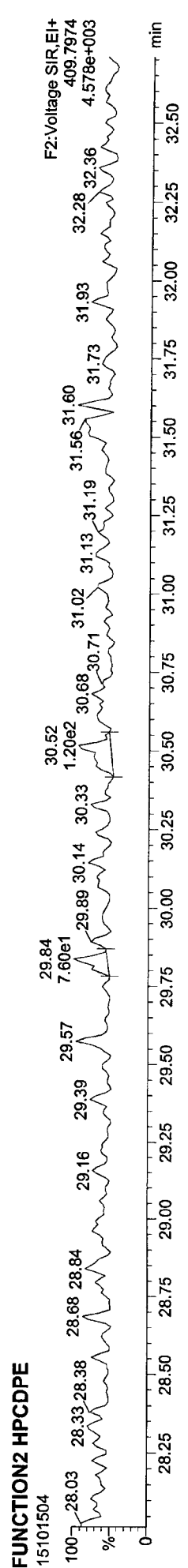
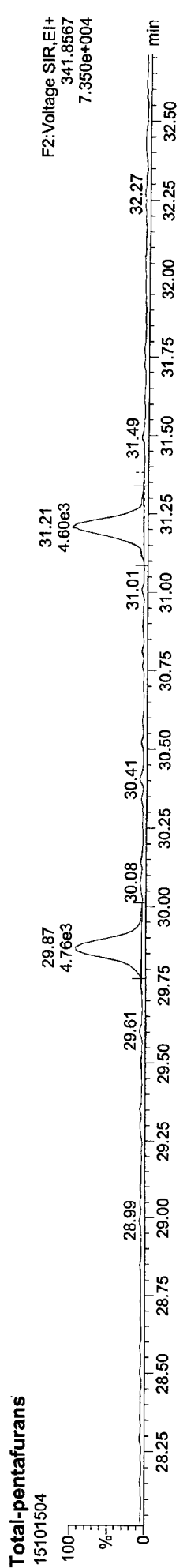
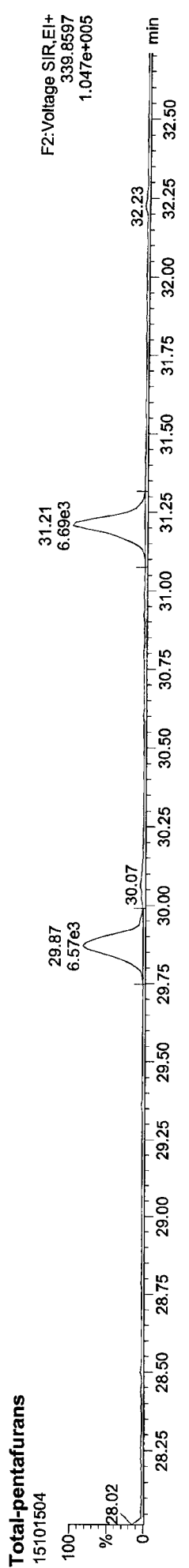
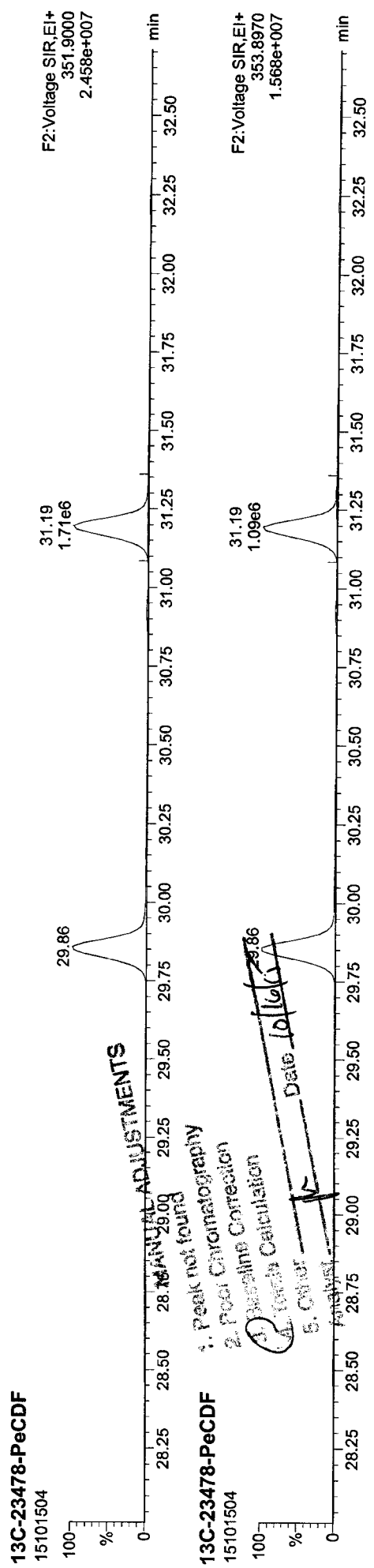
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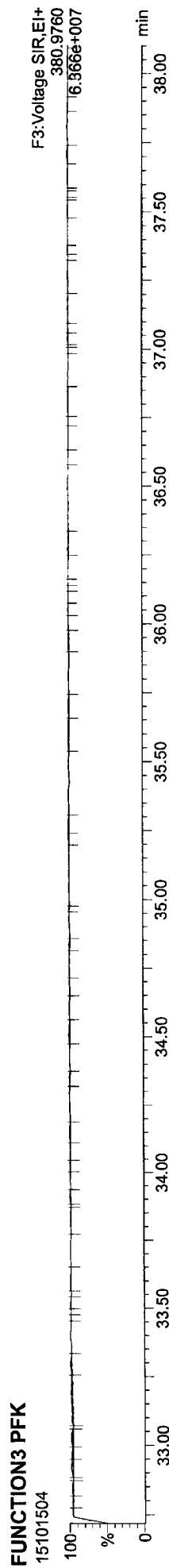
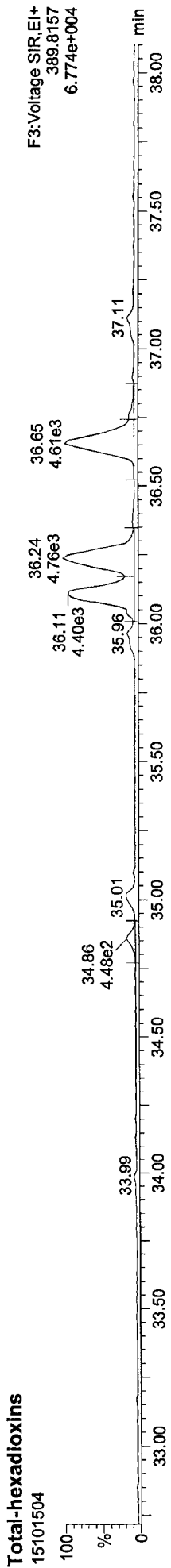
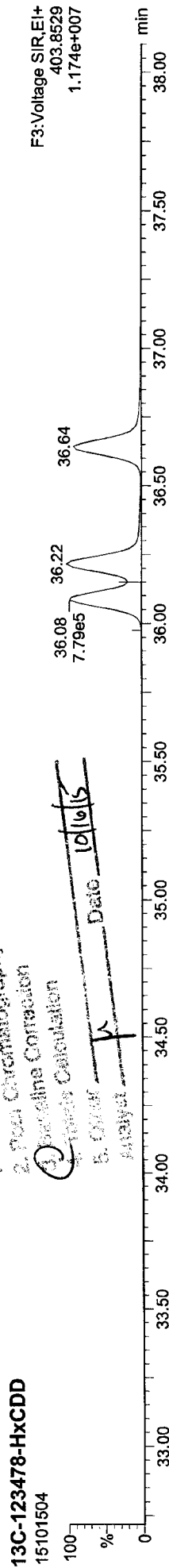
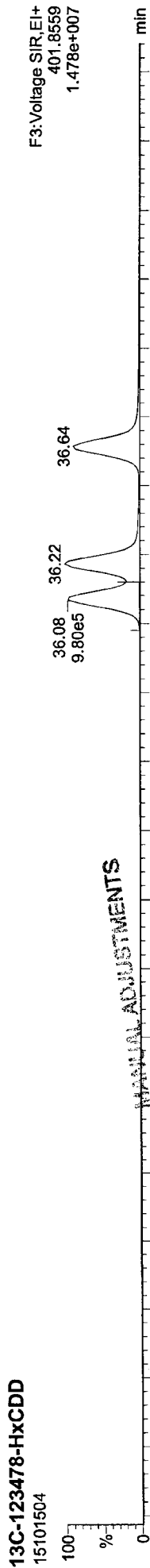
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
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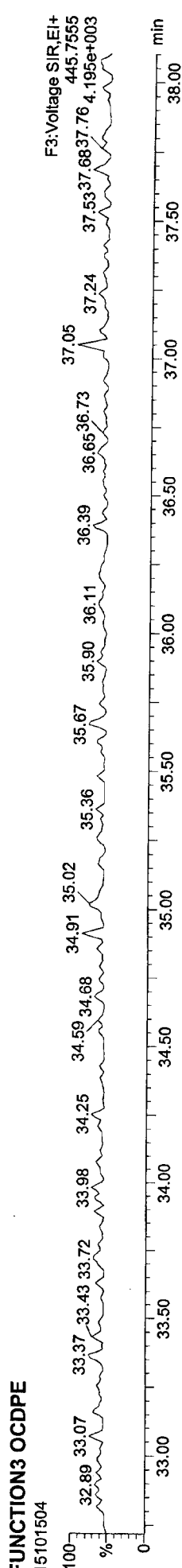
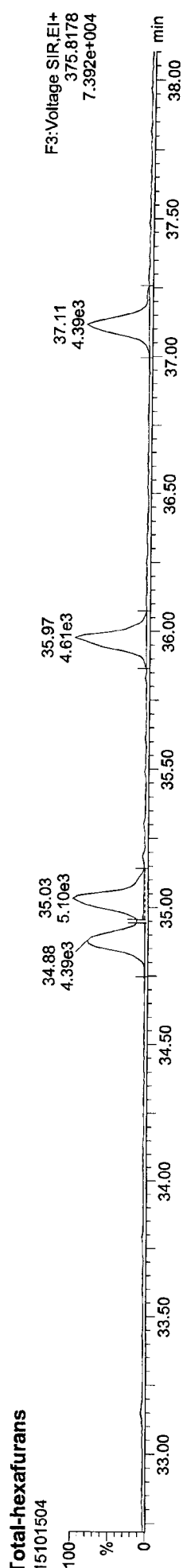
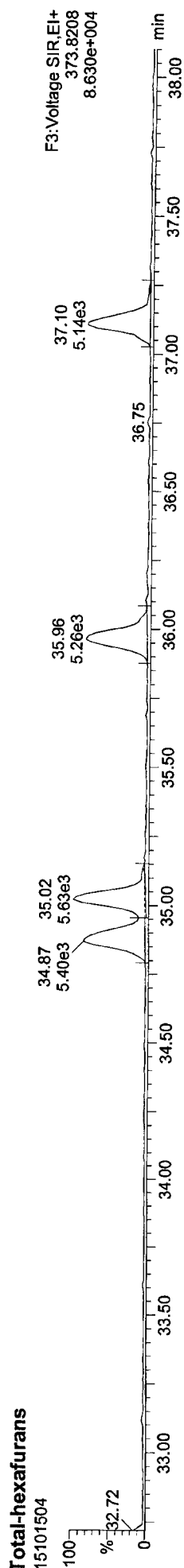
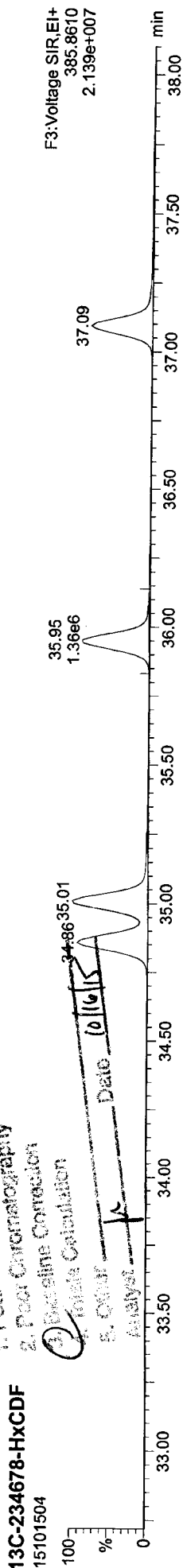
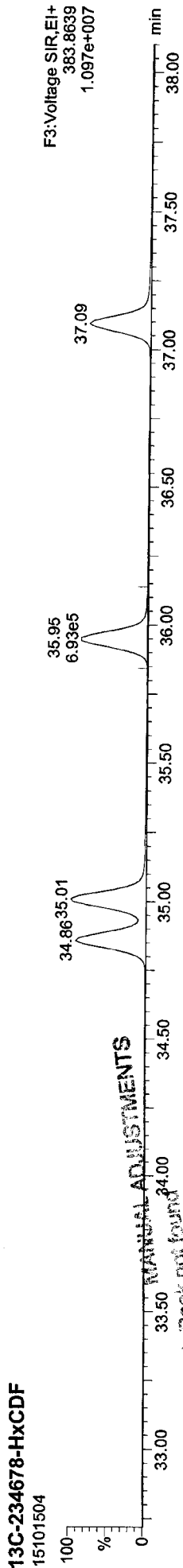


MANUAL ADJUSTMENTS

1. Peak not found
2. Peak Chromatography
3. Baseline Correction
4. Integrate Calculation
5. Check Analyst *pk* Date 10/16/15

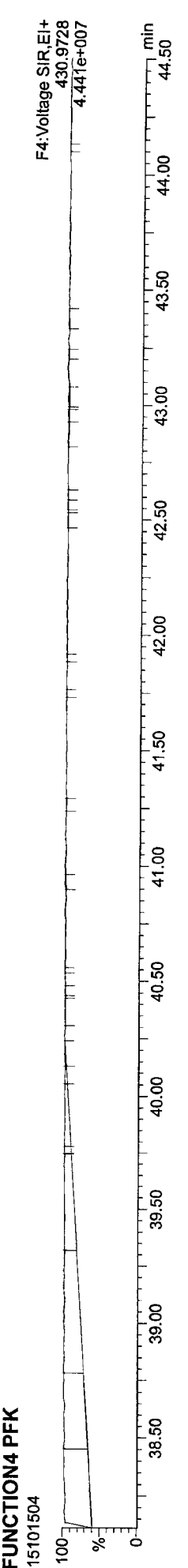
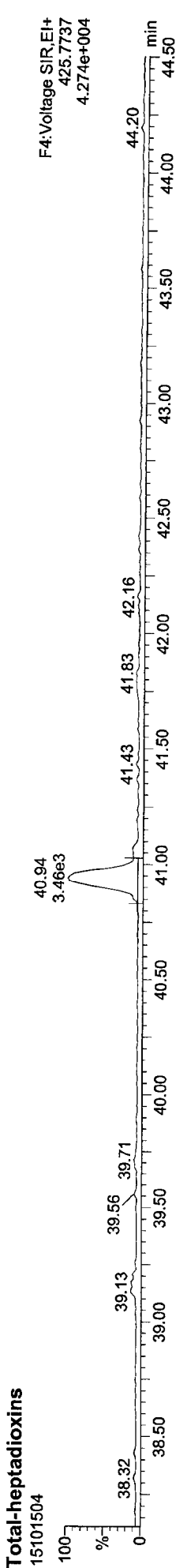
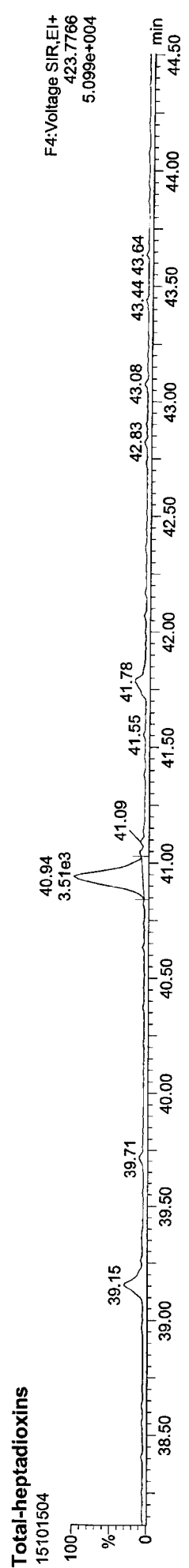
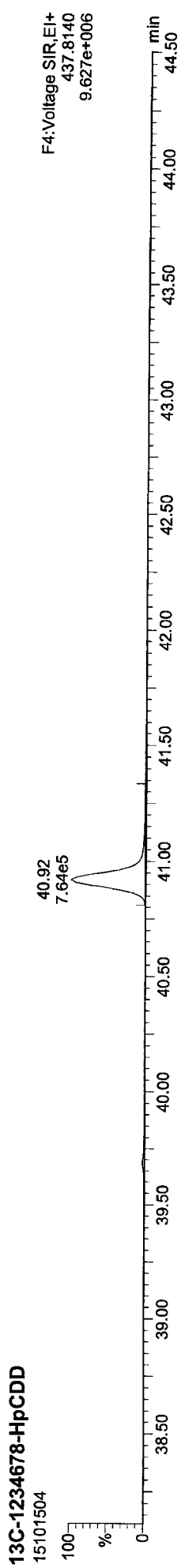
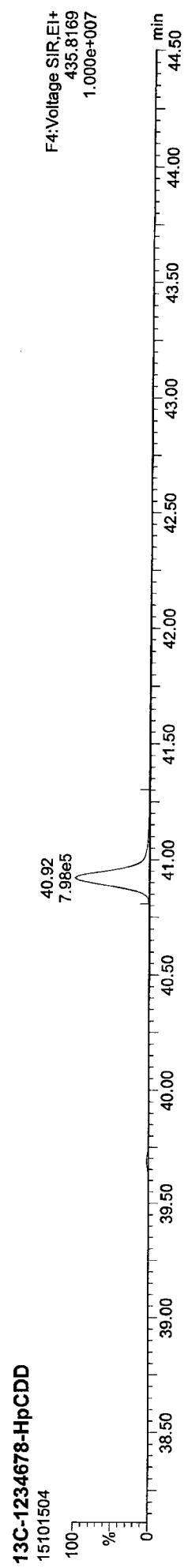
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MassLynx MassLynx V4.1 SCN909
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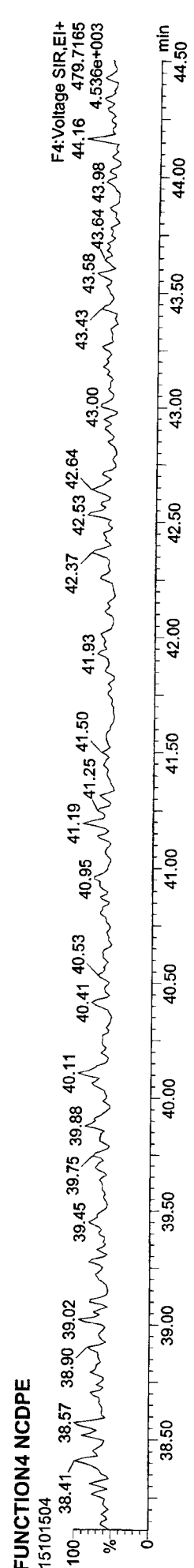
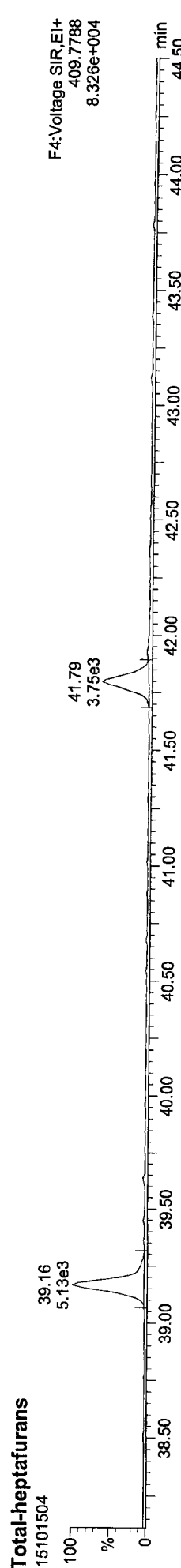
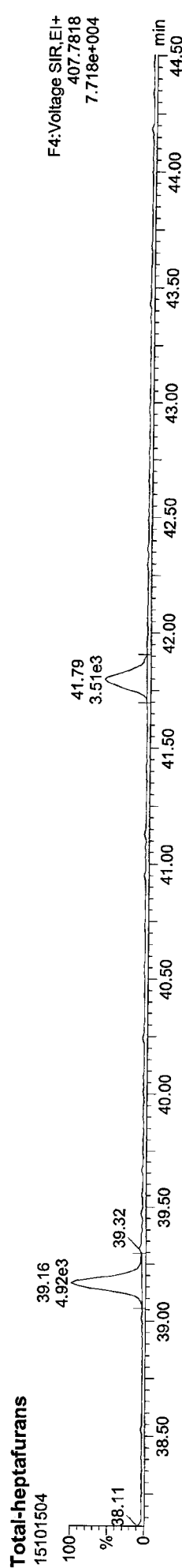
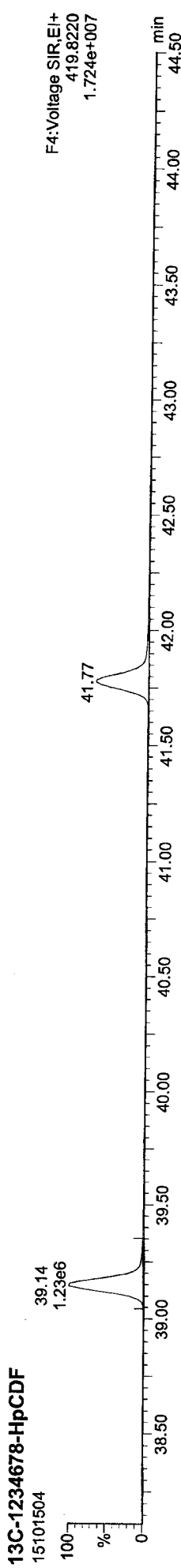
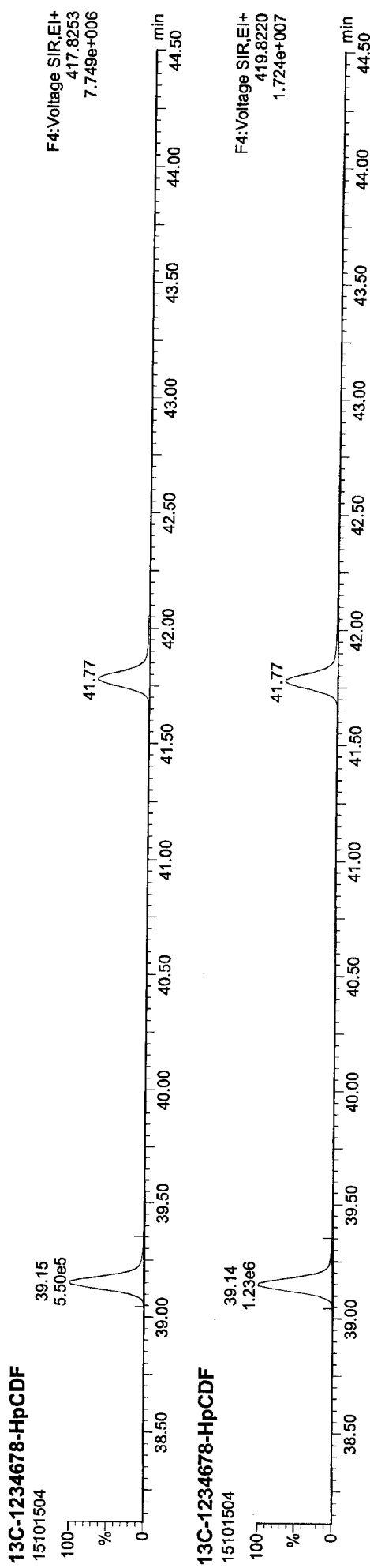


Quantify Sample Report
Dataset: P:\DIOXIN8290.PRO\15101504.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:55 Pacific Daylight Time

ID: CSL, Name: 15101504, Date: 15-Oct-2015, Time: 15:02:44, Conditions: AUTOSPEC01, User: pk

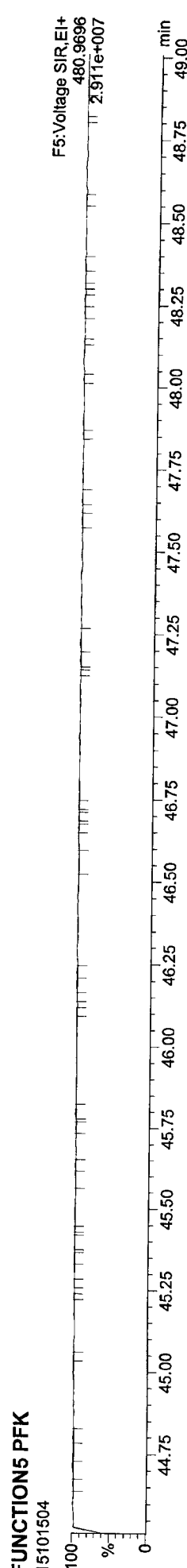
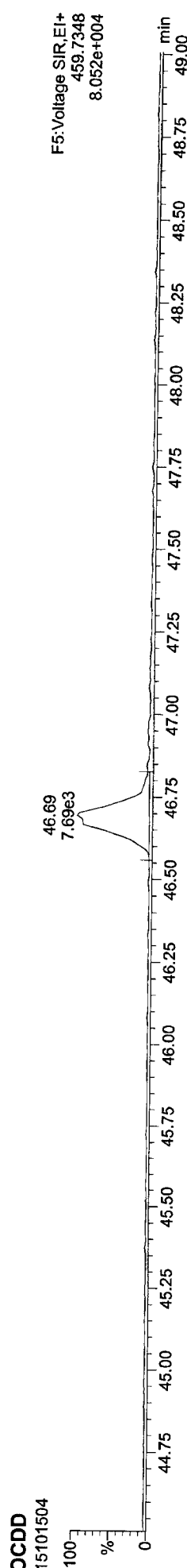
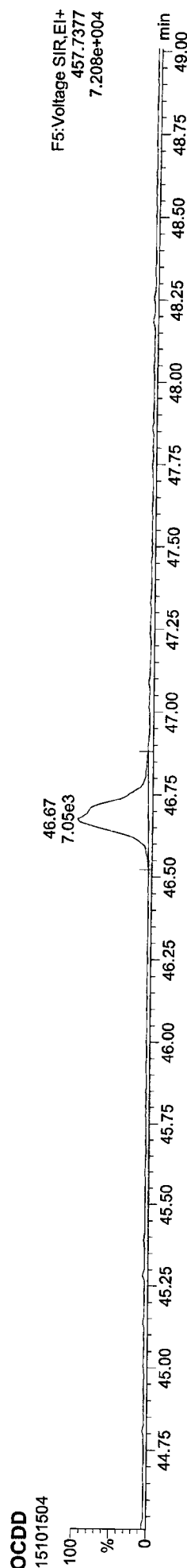
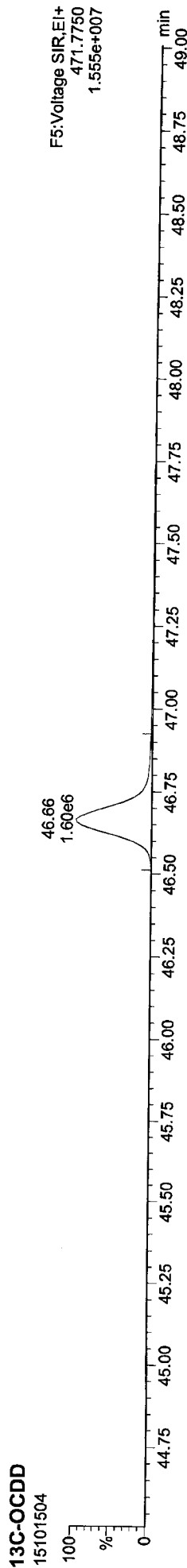
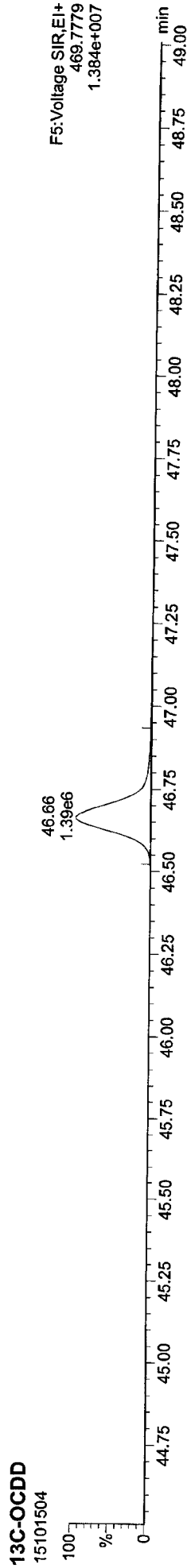


ID: CSL, Name: 15101504, Date: 15-Oct-2015, Time: 15:02:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Printed: Friday, October 16, 2015 09:49:55 Pacific Daylight Time

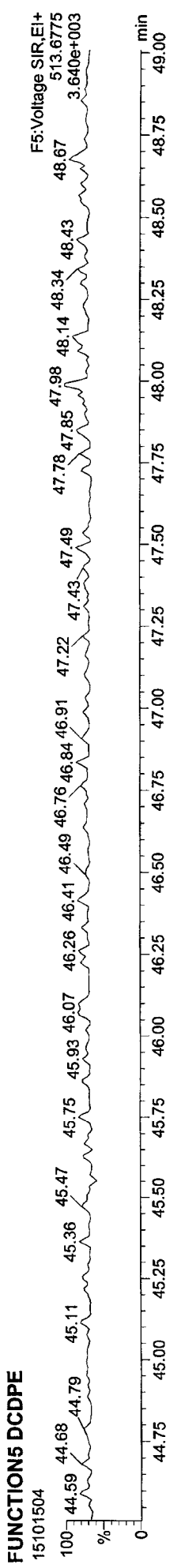
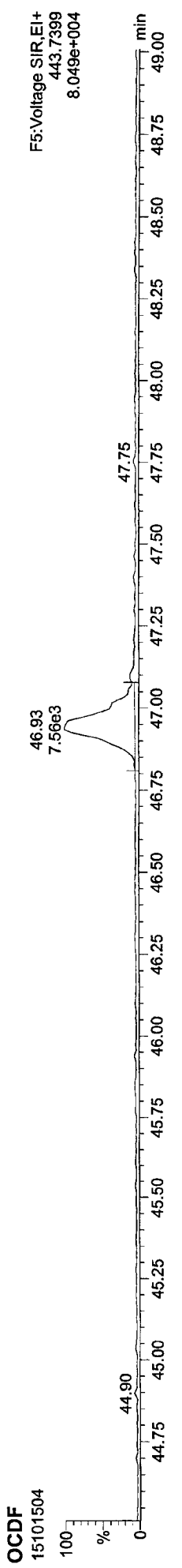
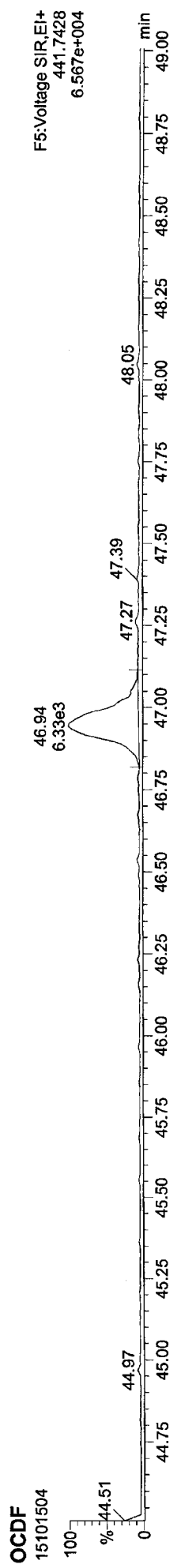
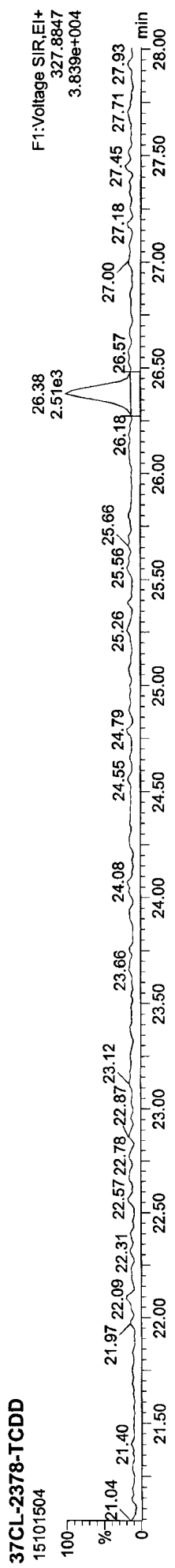
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Printed: Friday, October 16, 2015 09:49:55 Pacific Daylight Time

ID: CSL, Name: 15101504, Date: 15-Oct-2015, Time: 15:02:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1510153SN.mdb 15 Oct 2015 16:11:27
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ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	ln1Area	ln2Area	RRF	Ratio	Pred.R	Noise.1	Noise.2	Height.1	Height.2	SIN	EMPC?	EMPC	pg
2378-TCDF	25.749	1.001	5.93e3	8.82e3	0.827	0.672	0.770	584	991	7.13e4	1.16e5	122.2	NO	0.480	0.480
12378-PeCDF	29.880	1.000	3.37e4	2.45e4	0.824	1.374	1.550	1606	1125	4.71e5	3.29e5	293.5	NO	2.360	2.360
23478-PeCDF	31.217	1.000	3.46e4	2.54e4	0.850	1.361	1.550	1606	1125	5.18e5	3.49e5	322.4	NO	2.427	2.427
123478-HxCDF	34.889	1.001	2.75e4	2.46e4	0.973	1.116	1.240	1175	875	4.00e5	3.50e5	340.0	NO	2.452	2.452
234678-HxCDF	35.974	1.000	2.80e4	2.40e4	1.025	1.166	1.240	1175	875	4.02e5	3.37e5	341.8	NO	2.382	2.382
123678-HxCDF	35.031	1.000	2.92e4	2.71e4	0.953	1.079	1.240	1175	875	4.03e5	3.73e5	342.7	NO	2.397	2.397
123789-HxCDF	37.125	1.001	2.51e4	2.28e4	0.956	1.098	1.240	1175	875	3.33e5	3.04e5	283.7	NO	2.508	2.508
1234678-HpCDF	39.174	1.001	2.40e4	2.65e4	1.153	0.903	1.050	770	799	3.38e5	3.72e5	438.7	NO	2.366	2.366
1234789-HpCDF	41.805	1.000	1.94e4	2.11e4	1.131	0.922	1.050	770	799	2.44e5	2.86e5	317.5	NO	2.366	2.366
OCDF	46.951	1.006	3.25e4	3.93e4	1.023	0.828	0.890	966	954	3.16e5	3.79e5	326.5	NO	4.496	4.496
2378-TCDD	26.392	1.001	5.13e3	7.07e3	1.023	0.725	0.770	887	473	6.59e4	9.62e4	74.3	NO	0.514	0.514
12378-PeCDD	31.480	1.001	2.67e4	1.72e4	0.939	1.556	1.550	877	401	3.79e5	2.40e5	432.1	NO	2.435	2.435
123478-HxCDD	36.116	1.001	2.37e4	1.81e4	0.963	1.307	1.240	784	671	3.36e5	2.68e5	428.4	NO	2.365	2.365
123678-HxCDD	36.248	1.001	2.37e4	2.00e4	0.894	1.183	1.240	784	671	3.30e5	2.87e5	420.4	NO	2.412	2.412
123789-HxCDD	36.664	1.012	2.40e4	1.85e4	0.900	1.292	1.240	784	671	3.24e5	2.58e5	413.3	NO	2.446	2.446
1234678-HpCDD	40.950	1.000	1.88e4	1.83e4	0.964	1.026	1.050	713	739	2.34e5	2.25e5	328.2	NO	2.398	2.398
OCDD	46.682	1.000	3.36e4	3.59e4	0.969	0.938	0.890	601	722	3.52e5	3.55e5	585.9	NO	4.596	4.596
13C-2378-TCDF	25.735	1.006	1.62e6	2.09e6	1.502	0.774	0.770	5261	2837	2.24e7	2.88e7	4261.1	NO	101.559	101.559
13C-12378-PeCDF	29.869	1.168	1.85e6	1.14e6	1.215	1.613	1.550	4466	2387	2.48e7	1.58e7	5555.2	NO	101.124	101.124
13C-23478-PeCDF	31.206	1.220	1.78e6	1.13e6	1.181	1.567	1.550	4466	2387	2.50e7	1.60e7	5603.3	NO	101.227	101.227
13C-123478-HxCDF	34.867	0.951	7.41e5	1.44e6	1.246	0.513	0.510	2769	4074	1.05e7	2.07e7	3808.0	NO	99.206	99.206
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13C-234678-HxCDF	35.963	0.981	7.23e5	1.41e6	1.186	0.514	0.510	2769	4074	1.01e7	1.95e7	3665.2	NO	101.537	101.537
13C-123789-HxCDF	37.103	1.012	6.79e5	1.32e6	1.135	0.515	0.510	2769	4074	9.16e6	1.76e7	3309.0	NO	99.535	99.535
13C-1234678-HpCDF	39.152	1.068	5.77e5	1.27e6	1.020	0.454	0.440	2333	3666	7.87e6	1.78e7	3374.5	NO	102.538	102.538
13C-1234789-HpCDF	41.783	1.140	4.55e5	1.06e6	0.824	0.430	0.440	2333	3666	5.50e6	1.25e7	2357.7	NO	103.906	103.906
13C-1234-TCDD	25.570	0.000	1.08e6	1.36e6	1.000	0.795	0.770	2900	1792	1.51e7	1.91e7	5208.6	NO	100.000	100.000
13C-2378-TCDD	26.377	1.032	1.02e6	1.30e6	0.983	0.785	0.770	2900	1792	1.38e7	1.74e7	4767.5	NO	96.936	96.936
13C-12378-PeCDD	31.458	1.230	1.17e6	7.48e5	0.787	1.566	1.550	1686	1300	1.65e7	1.05e7	9808.4	NO	100.157	100.157
13C-123478-HxCDD	36.094	0.985	1.02e6	8.13e5	1.031	1.260	1.240	3984	1600	1.48e7	1.18e7	3710.6	NO	100.813	100.813
13C-123678-HxCDD	36.226	0.988	1.12e6	9.02e5	1.137	1.245	1.240	3984	1600	1.55e7	1.25e7	3897.5	NO	100.794	100.794
13C-1234678-HpCDD	40.928	1.117	8.13e5	7.91e5	0.892	1.028	1.050	2236	1618	1.03e7	9.76e6	4589.3	NO	101.780	101.780
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Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk

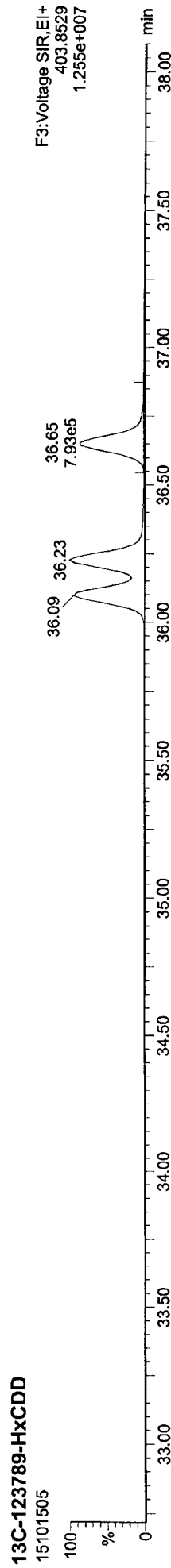
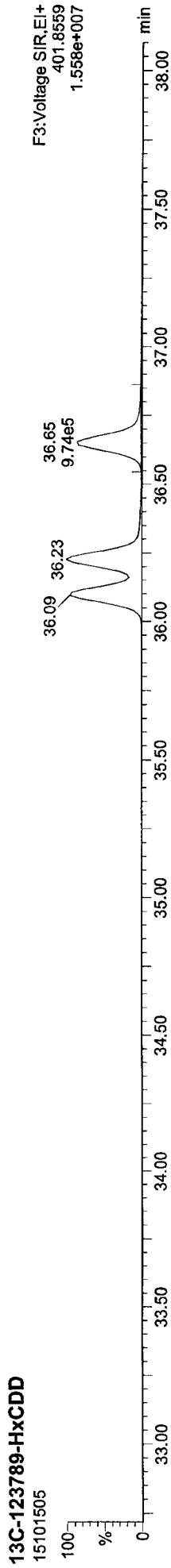
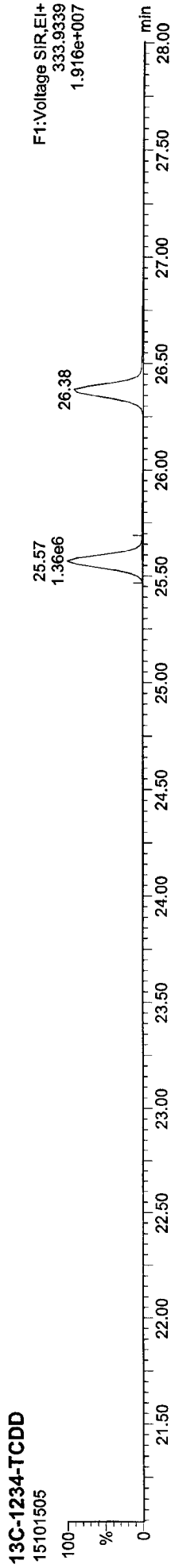
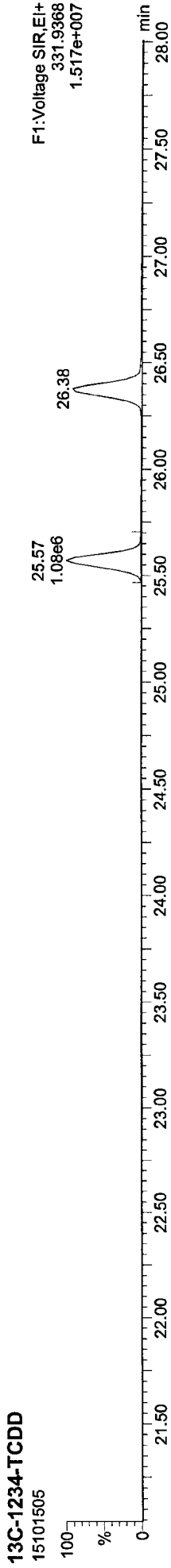
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Total-tetrafurans			6.31e3		0.827			584		7.79e4					0.504
Total-penta1			0.00e0					489		0.00e0					
Total-pentafurans			6.94e4		0.837			1606		1.01e6					4.875
Total-hexafurans			1.11e5		0.977			1175		1.55e6					9.800
Total-heptafurans			4.36e4		1.142			770		5.87e5					4.750
Total-Furans			2.62e5		0.971			584		3.54e6					24.425
Total-tetra-dioxins			5.85e3		1.023			887		7.46e4					0.551
Total-penta-dioxins			2.70e4		0.939			877		3.83e5					2.460
Total-hexa-dioxins			7.15e4		0.919			784		9.94e5					7.257
Total-hepta-dioxins			1.88e4		0.964			713		2.34e5					2.398
Total-Dioxins			1.57e5		0.950			887		2.04e6					17.261
Total-TEQ			4.19e5					887		5.58e6					41.687
37CL-2378-TCDD	26.392	1.032	1.29e4		1.091			1496		1.78e5		119.1			0.485
FUNCTION1 PFK			5.66e7					671431		2.16e8					
FUNCTION2 PFK			6.17e4					111216		2.26e6					0.000
FUNCTION3 PFK			4.23e5					420338		1.06e7					0.000
FUNCTION4 PFK			4.50e5					241972		1.35e7					
FUNCTION5 PFK			0.00e0					236957		0.00e0					
FUNCTION1 HXCDPE			8.20e1					368		1.35e3					0.000
FUNCTION1 HPCDPE			3.42e2					695		7.44e3					0.000
FUNCTION2 HPCDPE			0.00e0					676		0.00e0					
FUNCTION3 OCDPE			0.00e0					412		0.00e0					
FUNCTION4 NCDPE			0.00e0					549		0.00e0					
FUNCTION5 DCDPE			0.00e0					292		0.00e0					

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

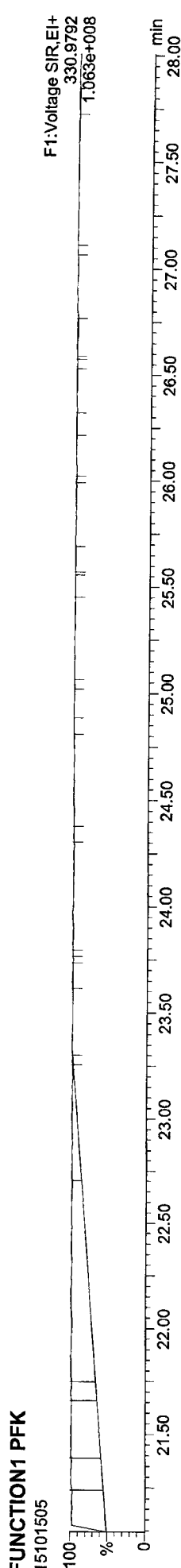
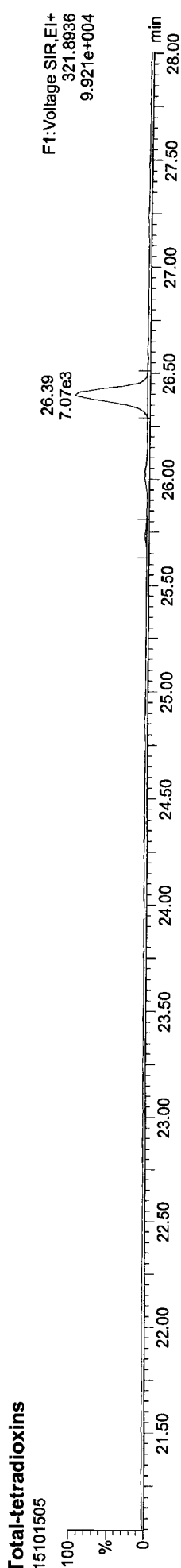
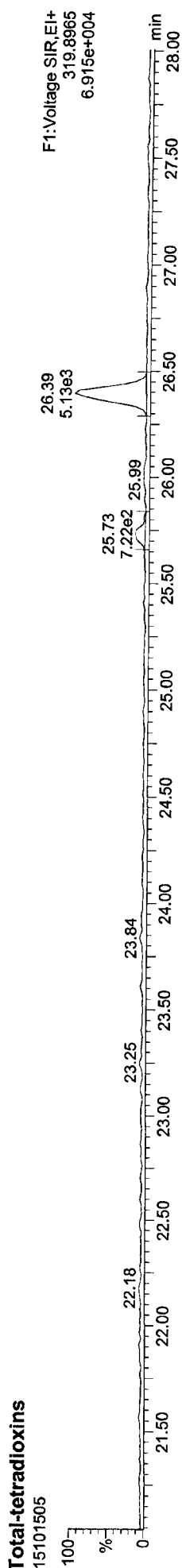
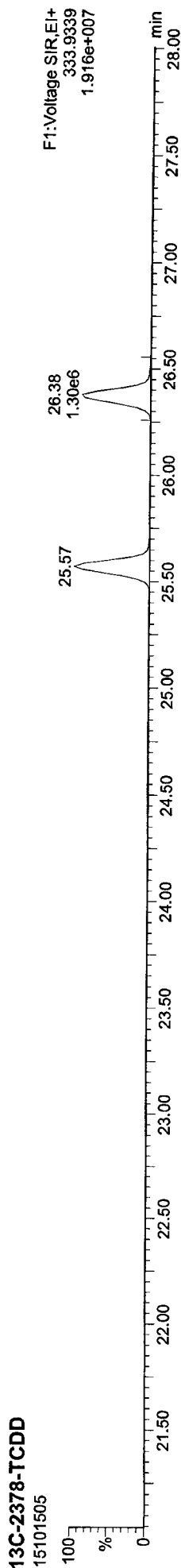
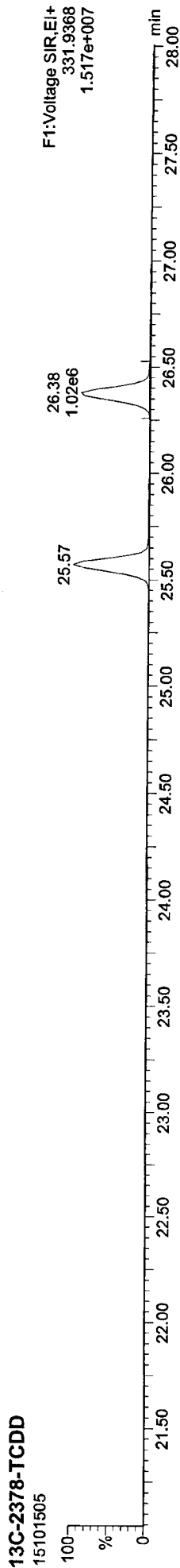
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ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



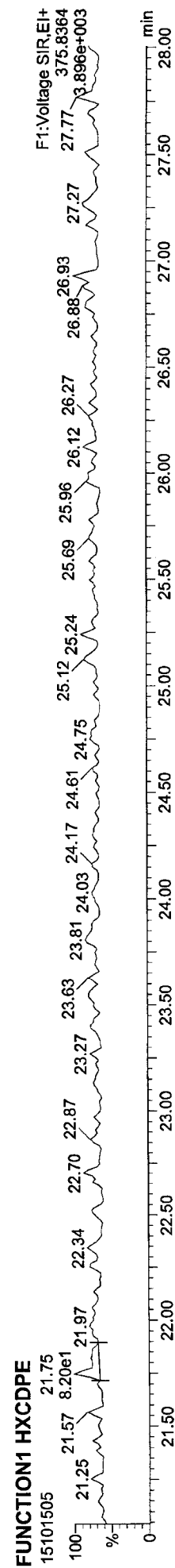
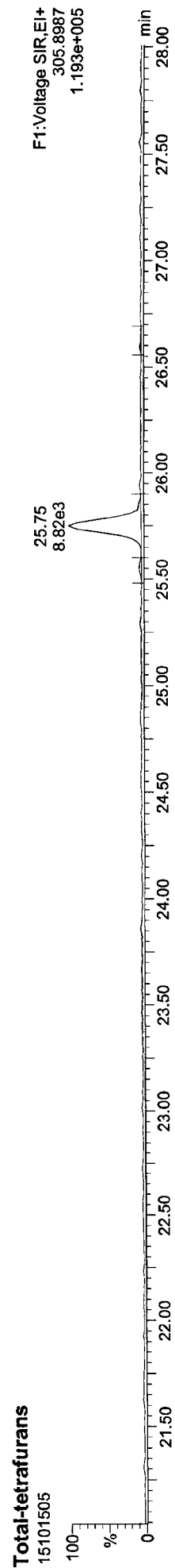
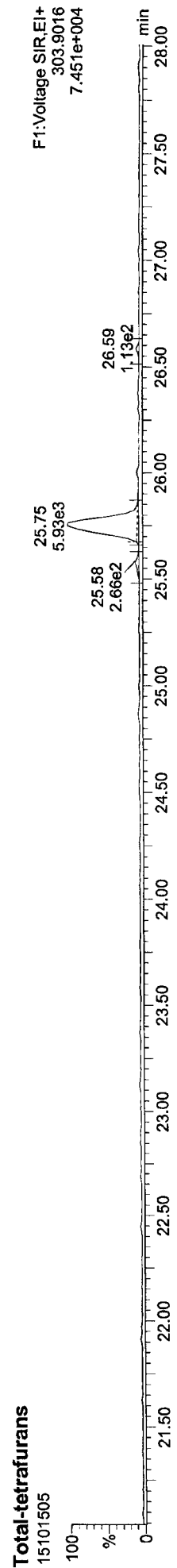
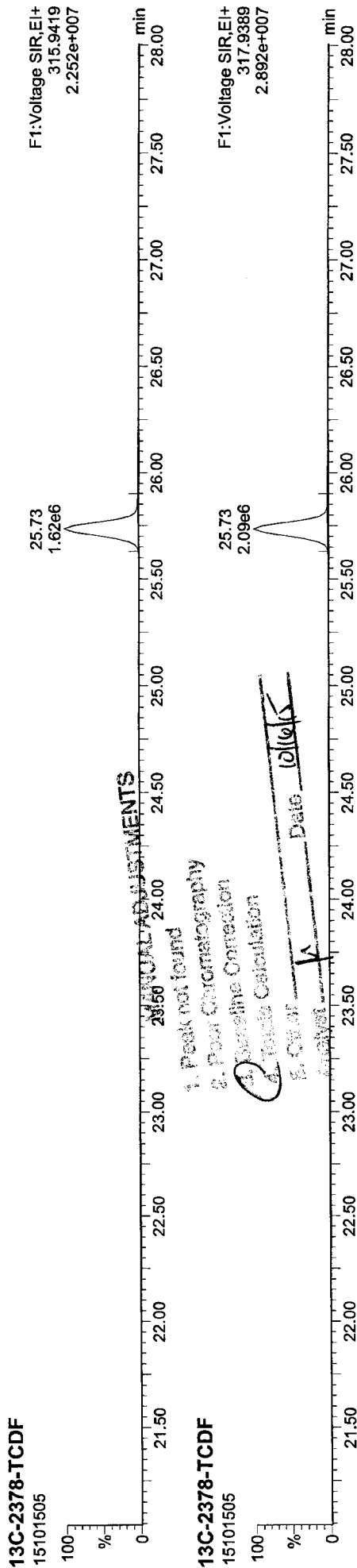
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Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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 Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

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Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\15101505.C.qld

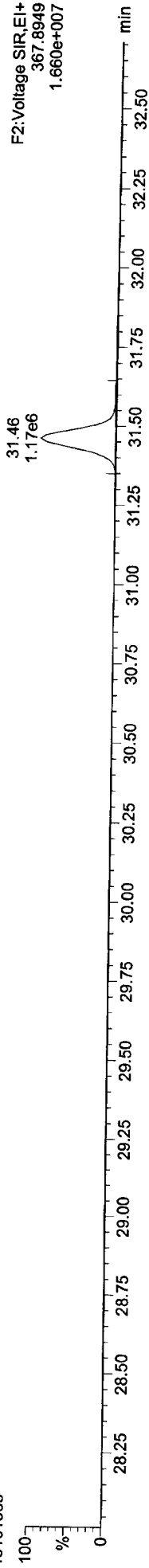
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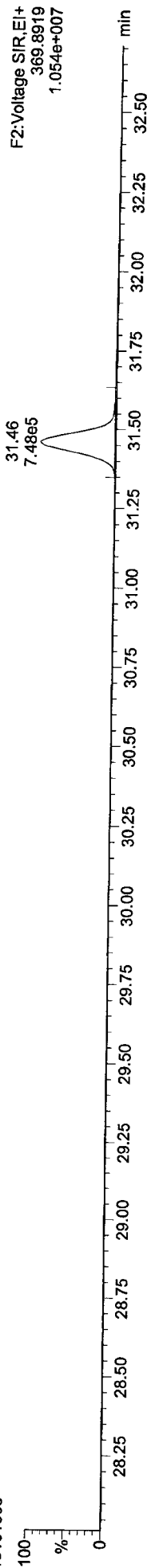
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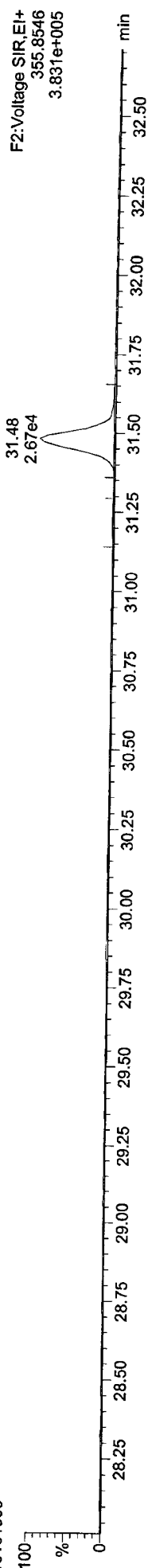
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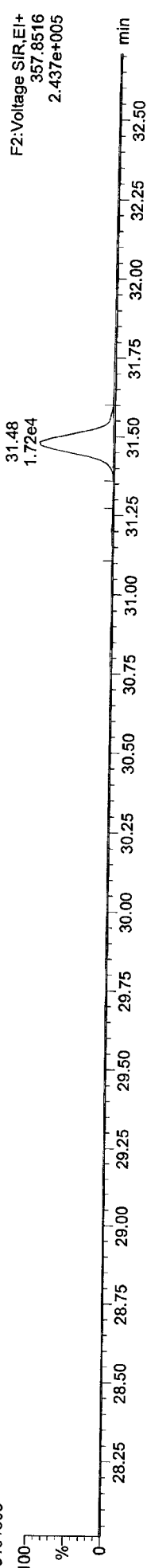
Total-pentadioxins

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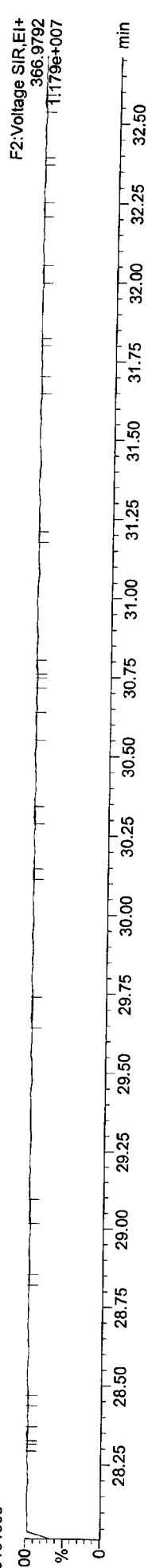
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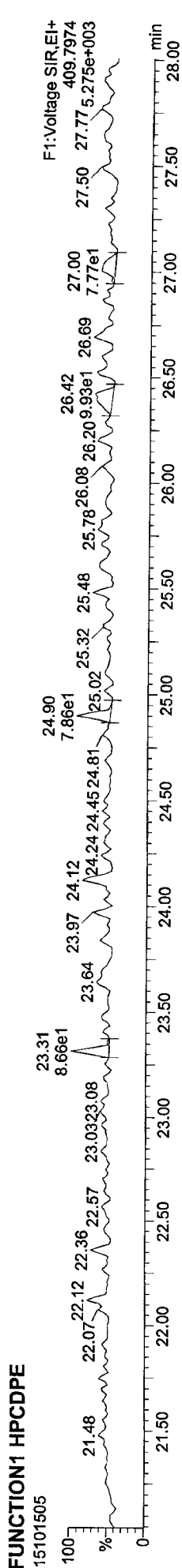
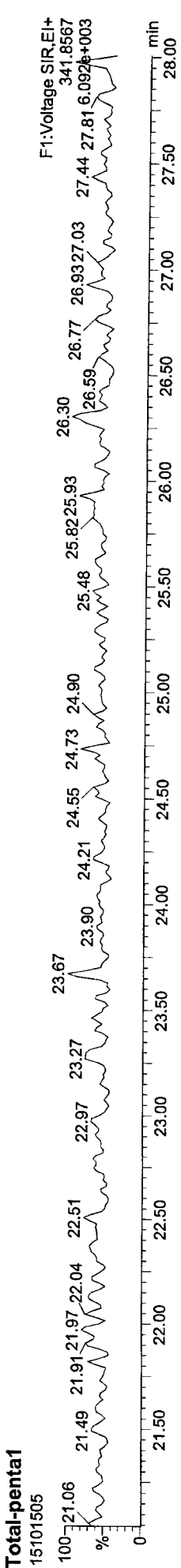
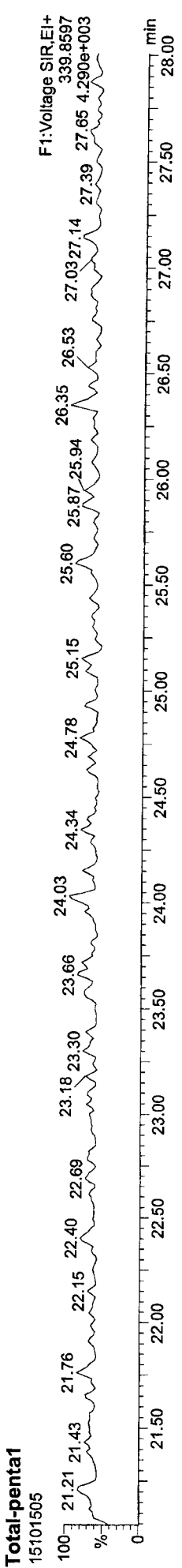
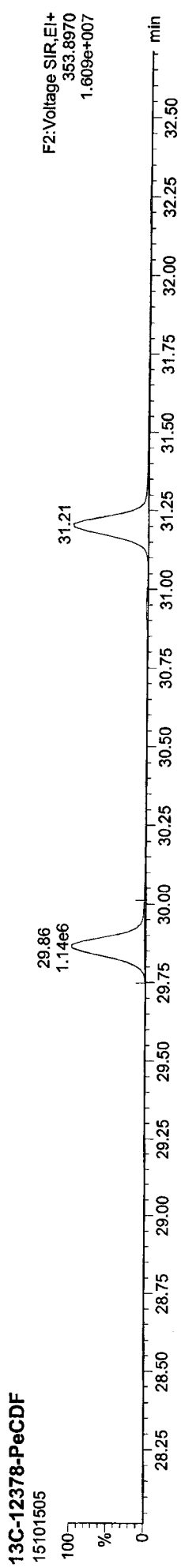
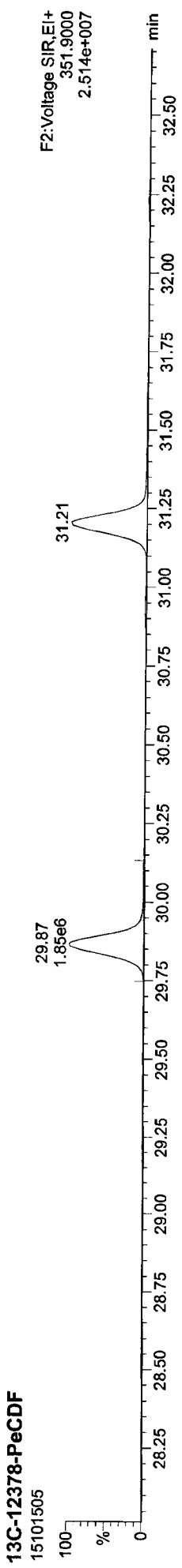


FUNCTION2 PFK

15101505



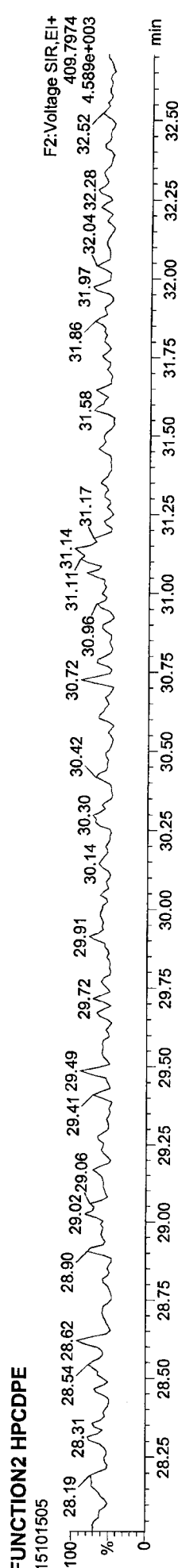
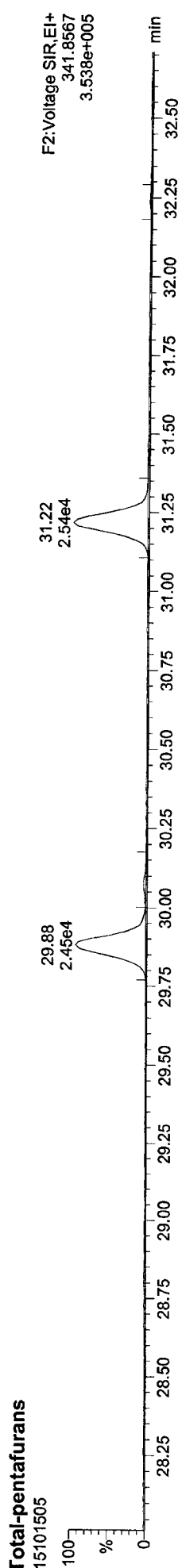
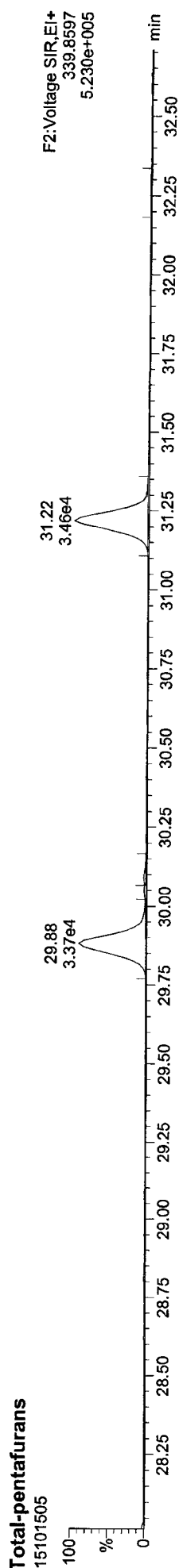
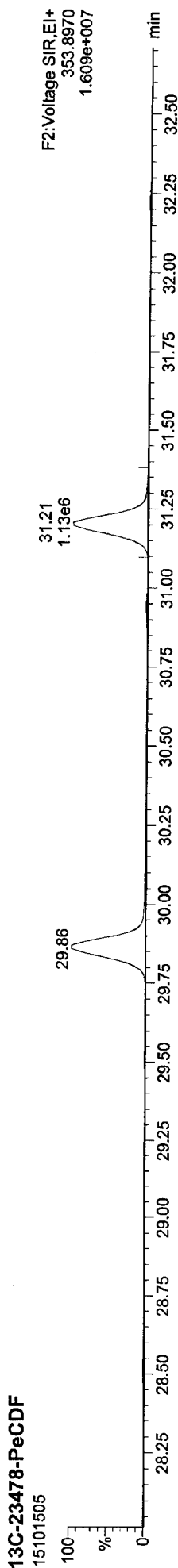
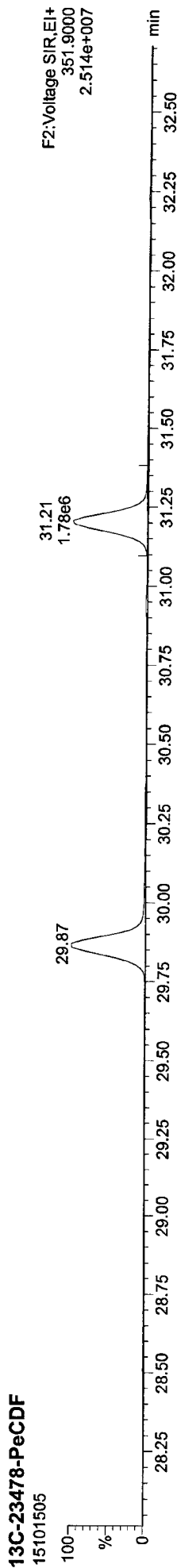
ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

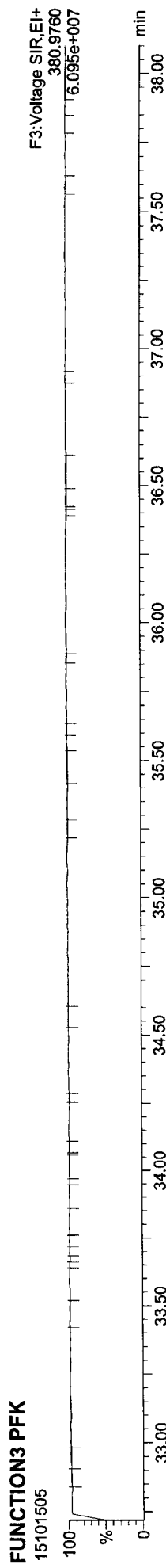
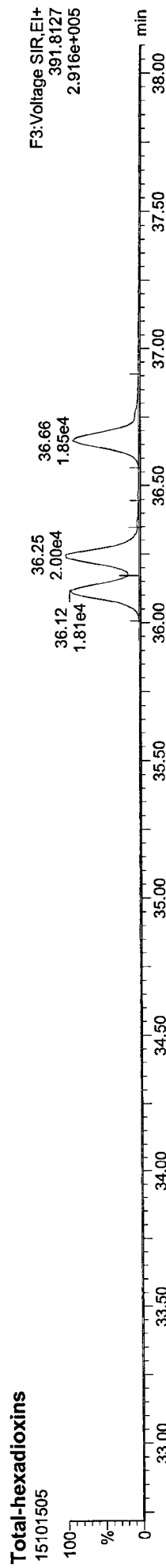
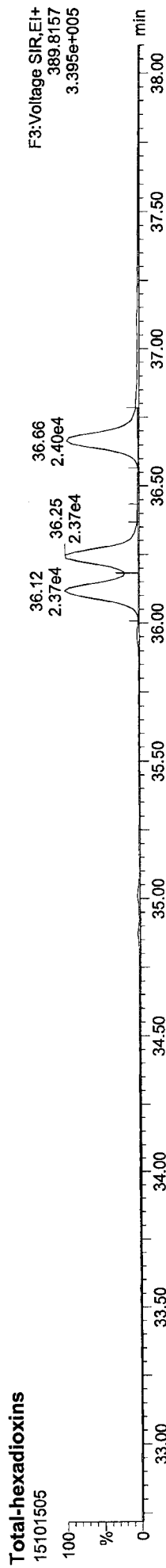
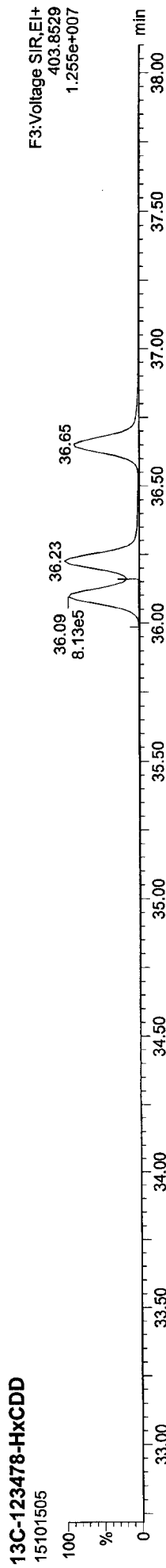
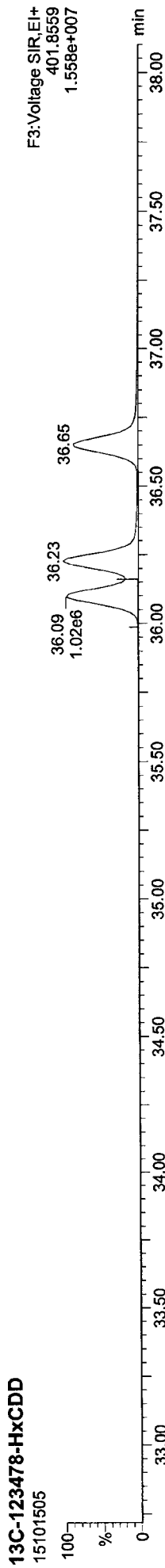
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Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk

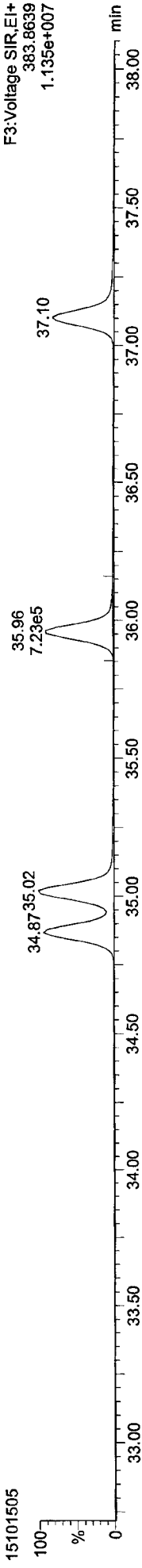


Quantify Sample Report MassLynx V4.1 SCN909

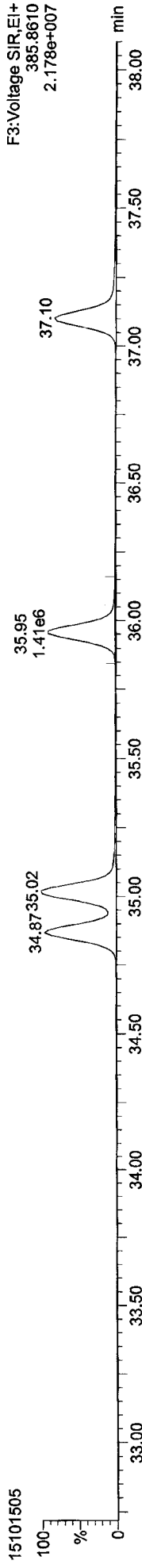
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ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk

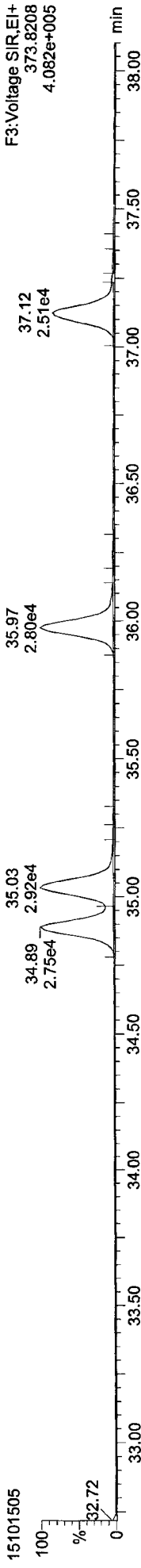
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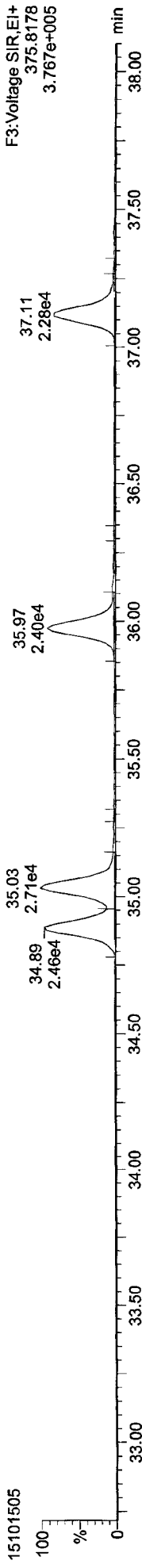
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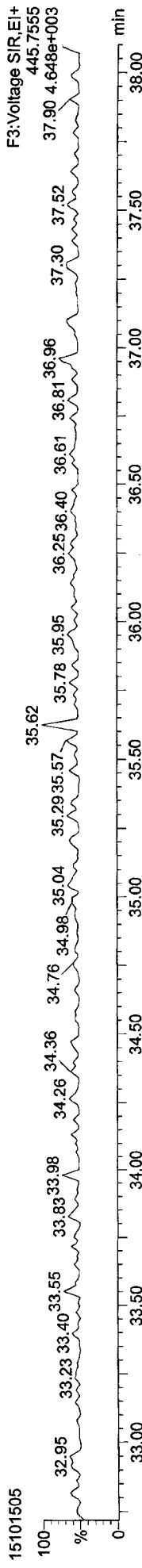
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Total-hexafurans

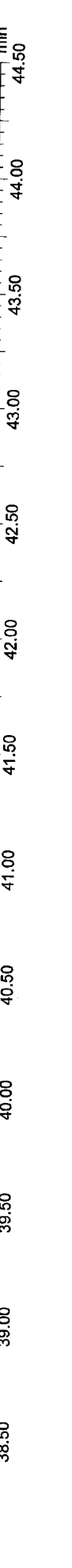
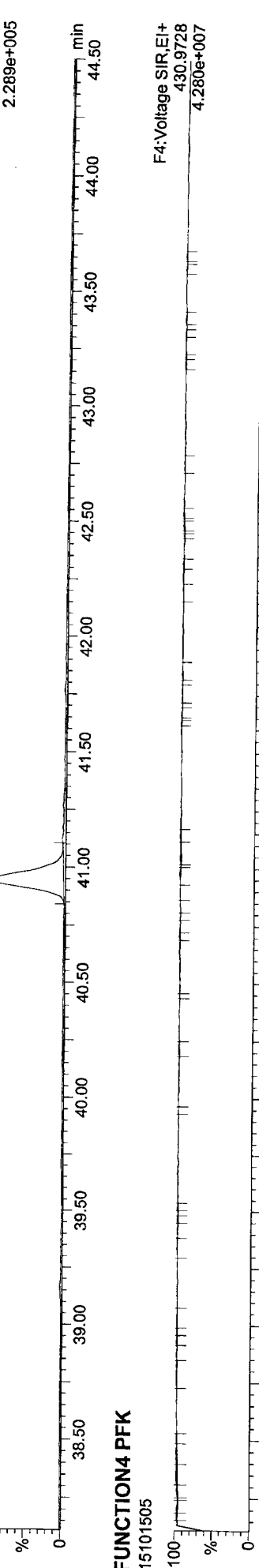
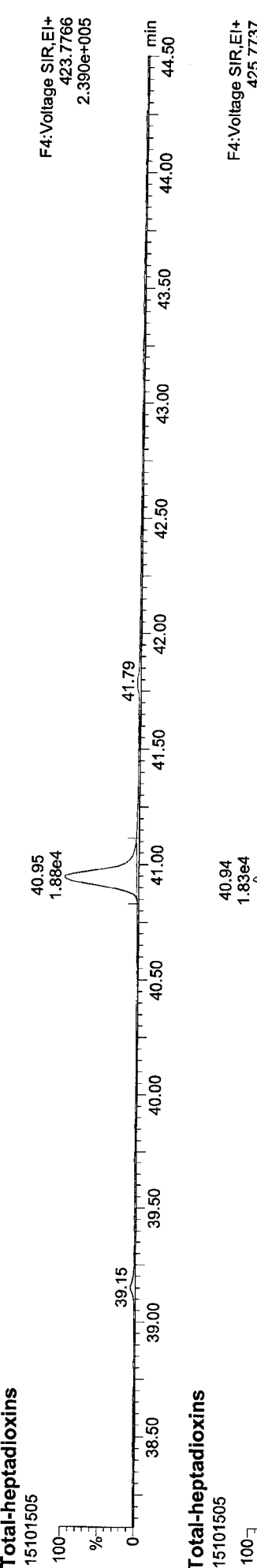
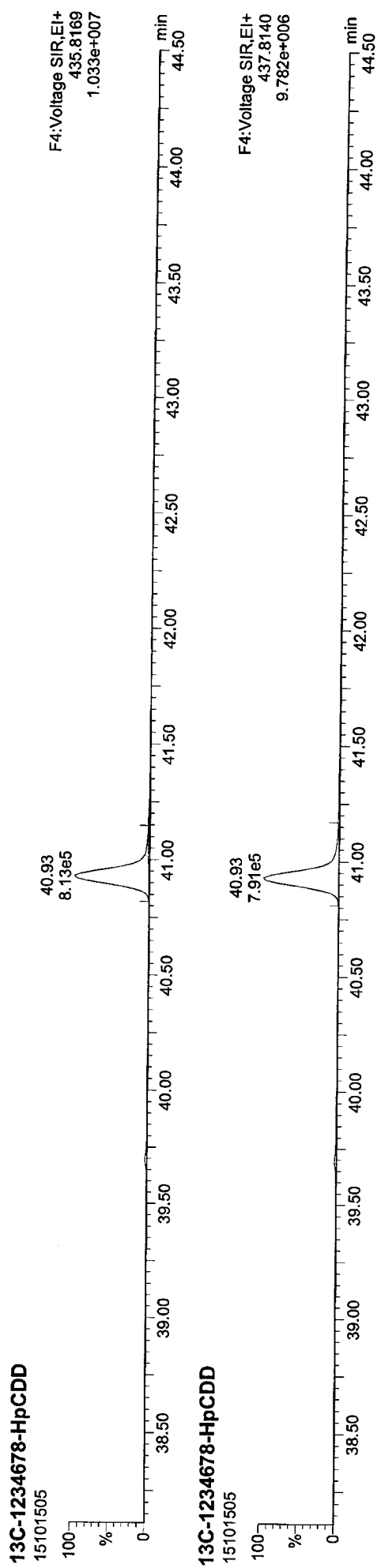


FUNCTION3 OCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

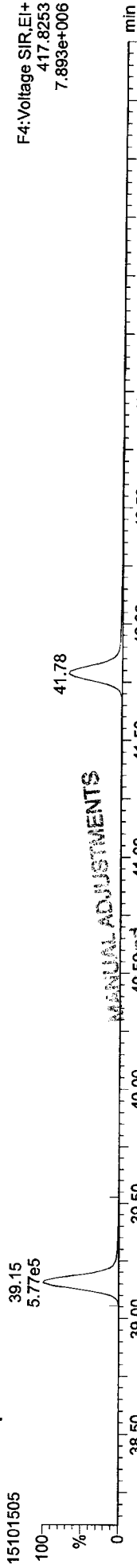
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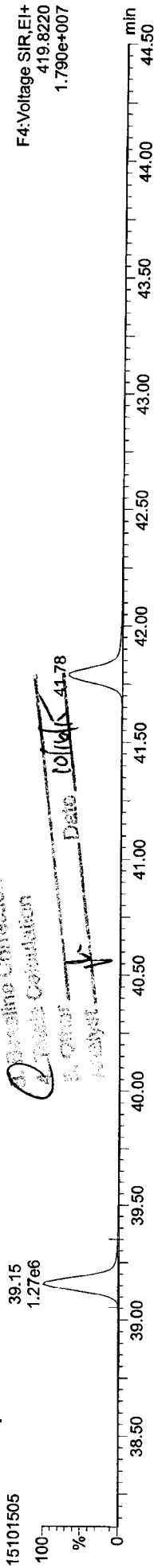
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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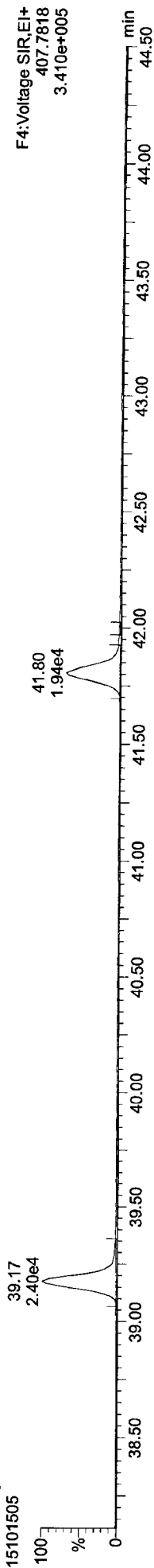
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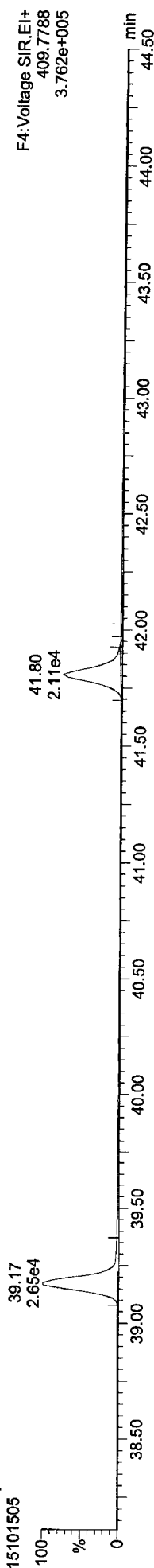
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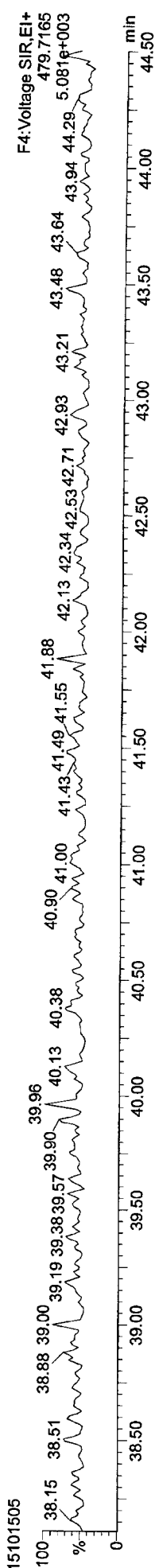
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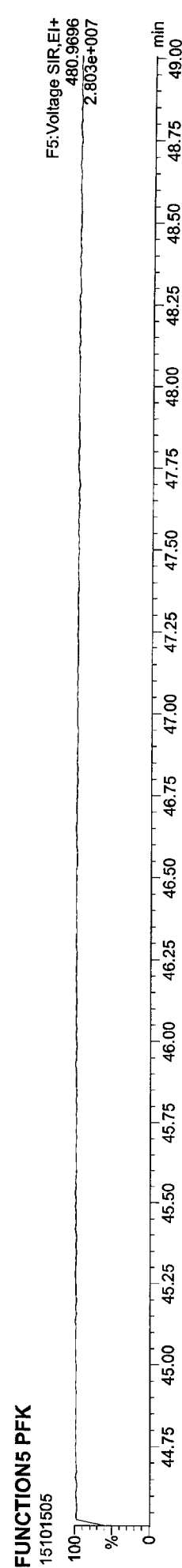
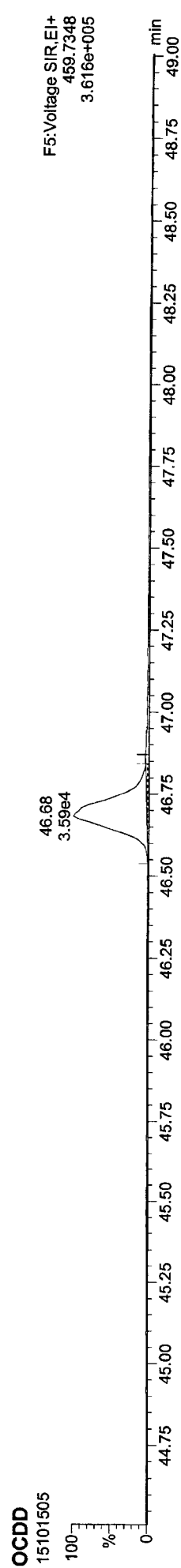
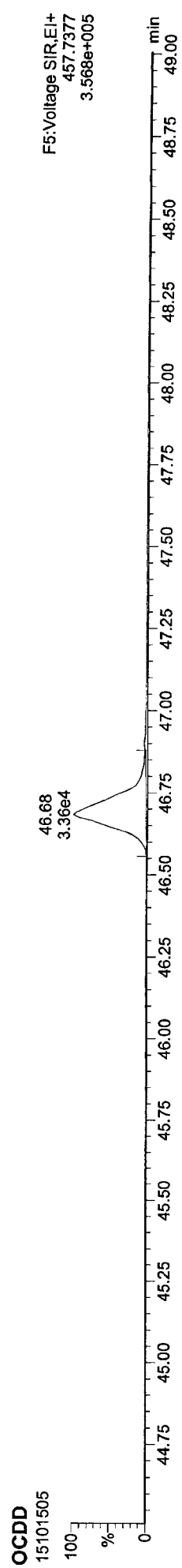
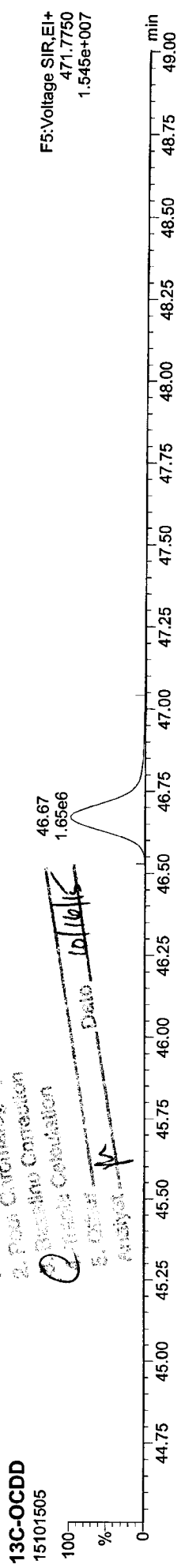
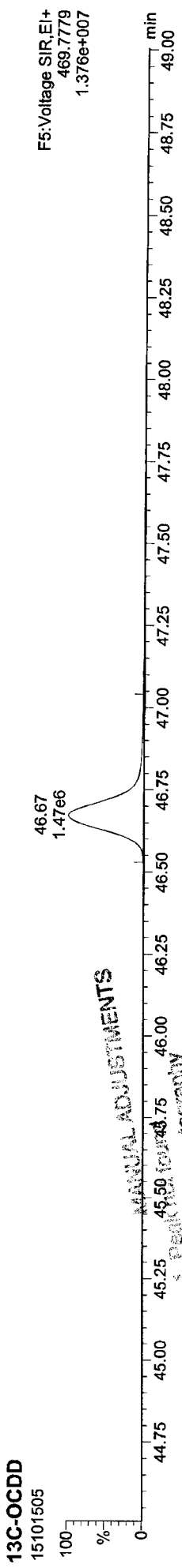
FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

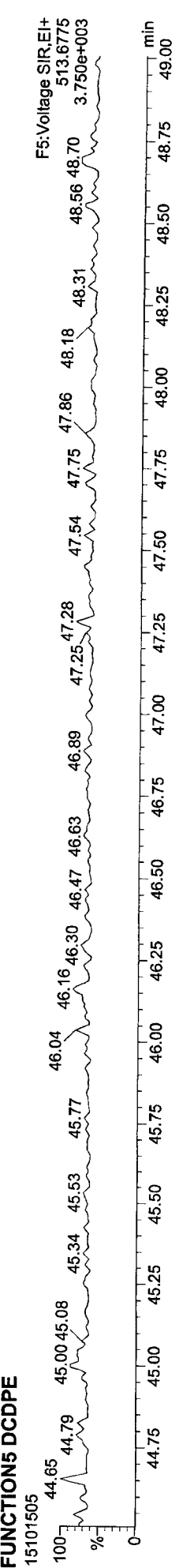
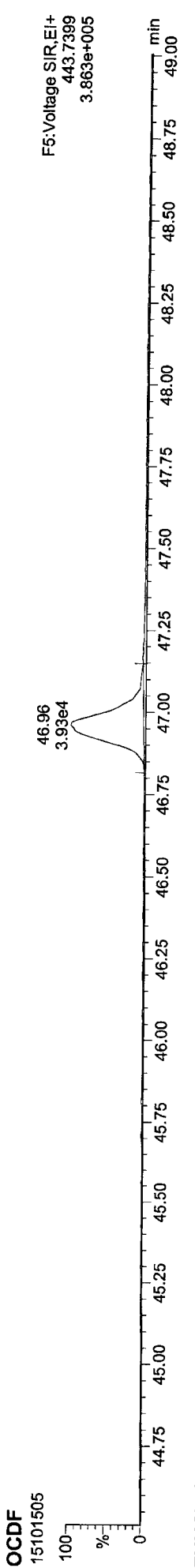
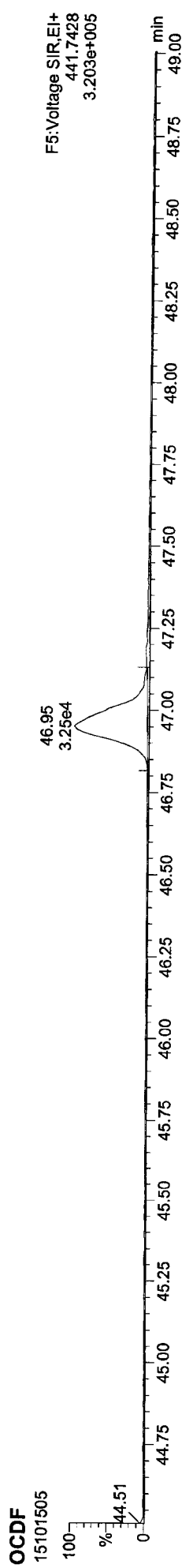
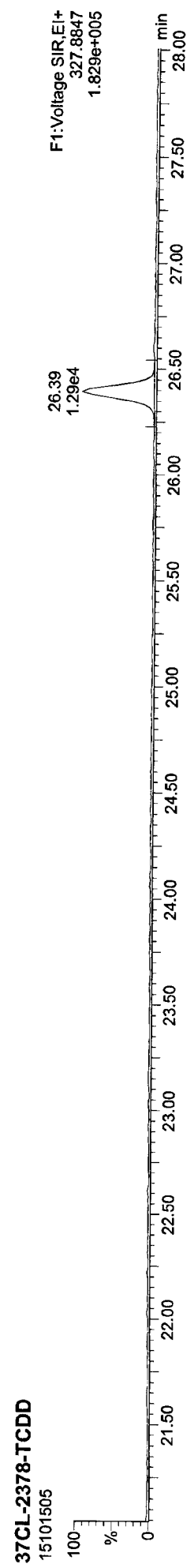
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ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report
 MassLynx MassLynx V4.1 SCN909
 Dataset: P:\DIOXIN8290.PRO\1510151C.qld
 Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
 Printed: Friday, October 16, 2015 09:49:57 Pacific Daylight Time

ID: CS1, Name: 15101505, Date: 15-Oct-2015, Time: 16:02:00, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

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Calibration: P:\DIOXIN8290.PRO\CurveDB\1510151CAL.cdb 16 Oct 2015 09:47:27

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred:R	Noise:1	Noise:2	Height:1	Height:2	SN	EMPC?	EMPC	pg
2378-TCDF	25.735	1.001	2.52e4	3.83e4	0.827	0.657	0.770	839	1298	3.63e5	5.49e5	433.0	NO	1.958	1.958
12378-PeCDF	29.869	1.001	1.45e5	1.07e5	0.824	1.352	1.550	937	1454	2.04e6	1.51e6	2181.0	NO	9.850	9.850
23478-PeCDF	31.206	1.000	1.49e5	1.05e5	0.850	1.418	1.550	937	1454	2.14e6	1.52e6	2284.7	NO	9.966	9.966
123478-HxCDF	34.878	1.001	1.18e5	1.05e5	0.973	1.125	1.240	1419	2043	1.72e6	1.57e6	1209.2	NO	9.879	9.879
234678-HxCDF	35.963	1.000	1.17e5	1.05e5	1.025	1.116	1.240	1419	2043	1.65e6	1.50e6	1164.7	NO	9.805	9.805
123678-HxCDF	35.020	1.000	1.27e5	1.18e5	0.953	1.082	1.240	1419	2043	1.69e6	1.60e6	1193.5	NO	10.006	10.006
123789-HxCDF	37.114	1.001	1.06e5	9.27e4	0.956	1.142	1.240	1419	2043	1.43e6	1.25e6	1004.9	NO	9.648	9.648
1234678-HpCDF	39.164	1.000	1.04e5	1.11e5	1.153	0.941	1.050	1298	1377	1.46e6	1.61e6	1122.2	NO	9.908	9.908
1234789-HpCDF	41.794	1.000	8.31e4	9.01e4	1.131	0.923	1.050	1298	1377	1.03e6	1.07e6	789.9	NO	9.996	9.996
OCDF	46.951	1.006	1.40e5	1.74e5	1.023	0.807	0.890	1155	1576	1.38e6	1.70e6	1197.8	NO	19.937	19.937
2378-TCDD	26.377	1.001	2.25e4	2.81e4	1.023	0.800	0.770	956	615	3.06e5	3.99e5	320.0	NO	1.878	1.878
12378-PeCDD	31.469	1.001	1.15e5	7.41e4	0.939	1.554	1.550	1151	597	1.64e6	1.01e6	1421.8	NO	10.117	10.117
123478-HxCDD	36.105	1.001	9.98e4	8.00e4	0.963	1.247	1.240	850	1765	1.47e6	1.18e6	1727.4	NO	9.916	9.916
123678-HxCDD	36.237	1.001	1.01e5	8.20e4	0.894	1.234	1.240	850	1765	1.41e6	1.15e6	1656.6	NO	9.685	9.685
123789-HxCDD	36.653	1.012	9.66e4	8.07e4	0.900	1.198	1.240	850	1765	1.34e6	1.09e6	1573.6	NO	9.850	9.850
1234678-HpCDD	40.939	1.000	8.33e4	7.87e4	0.964	1.059	1.050	950	1252	1.05e6	1.00e6	1103.4	NO	10.074	10.074
OCDD	46.682	1.000	1.37e5	1.55e5	0.969	0.881	0.890	1241	1433	1.36e6	1.53e6	1099.0	NO	19.525	19.525
13C-2378-TCDF	25.719	1.008	1.71e6	2.21e6	1.502	0.774	0.770	4466	2203	2.40e7	3.12e7	5378.2	NO	100.740	100.740
13C-12378-PeCDF	29.847	1.168	1.88e6	1.23e6	1.215	1.536	1.550	3320	3079	2.61e7	1.70e7	7872.9	NO	98.692	98.692
13C-23478-PeCDF	31.195	1.221	1.84e6	1.16e6	1.181	1.580	1.550	3320	3079	2.62e7	1.65e7	7879.7	NO	98.102	98.102
13C-123478-HxCDF	34.856	0.951	7.85e5	1.54e6	1.246	0.511	0.510	4143	4385	1.14e7	2.22e7	2749.9	NO	98.524	98.524
13C-123678-HxCDF	35.009	0.955	8.73e5	1.70e6	1.375	0.514	0.510	4143	4385	1.18e7	2.28e7	2849.3	NO	98.859	98.859
13C-234678-HxCDF	35.952	0.981	7.60e5	1.45e6	1.186	0.525	0.510	4143	4385	1.05e7	2.02e7	2545.1	NO	98.304	98.304
13C-123789-HxCDF	37.092	1.012	7.36e5	1.42e6	1.135	0.520	0.510	4143	4385	9.99e6	1.93e7	2410.5	NO	100.229	100.229
13C-1234678-HpCDF	39.153	1.069	5.82e5	1.30e6	1.020	0.448	0.440	2174	3772	8.21e6	1.81e7	3776.4	NO	97.518	97.518
13C-1234789-HpCDF	41.783	1.140	4.58e5	1.07e6	0.824	0.426	0.440	2174	3772	5.59e6	1.27e7	2572.1	NO	98.306	98.306
13C-1234-TCDD	25.555	0.000	1.14e6	1.45e6	1.000	0.790	0.770	2845	1519	1.67e7	2.11e7	5865.5	NO	100.000	100.000
13C-2378-TCDD	26.362	1.032	1.15e6	1.48e6	0.983	0.780	0.770	2845	1519	1.61e7	2.06e7	5645.0	NO	103.373	103.373
13C-12378-PeCDD	31.447	1.231	1.21e6	7.84e5	0.787	1.539	1.550	1217	1716	1.71e7	1.09e7	14015.5	NO	97.611	97.611
13C-123478-HxCDD	36.083	0.985	1.05e6	8.32e5	1.031	1.266	1.240	2022	1855	1.54e7	1.22e7	7608.2	NO	96.621	96.621
13C-123678-HxCDD	36.215	0.988	1.17e6	9.41e5	1.137	1.248	1.240	2022	1855	1.62e7	1.30e7	7996.1	NO	98.403	98.403
13C-1234678-HpCDD	40.917	1.117	8.49e5	8.19e5	0.892	1.037	1.050	2704	1983	1.08e7	1.04e7	3984.5	NO	98.878	98.878
13C-OCDD	46.664	1.273	1.46e6	1.62e6	0.852	0.901	0.890	2413	2734	1.41e7	1.60e7	5839.2	NO	191.435	191.435

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

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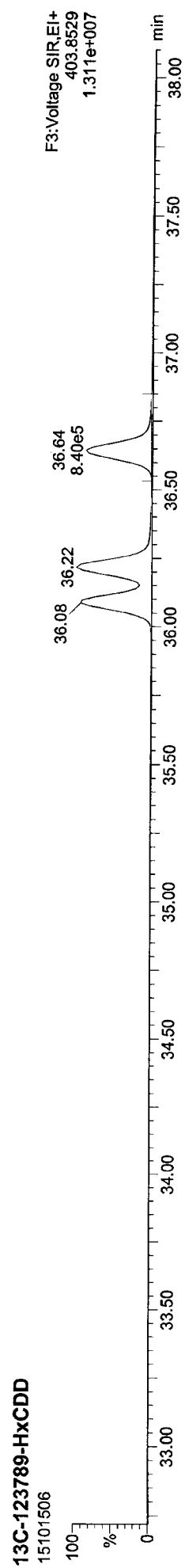
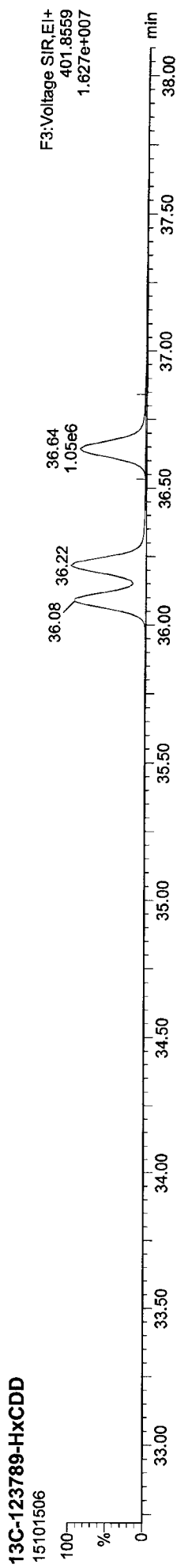
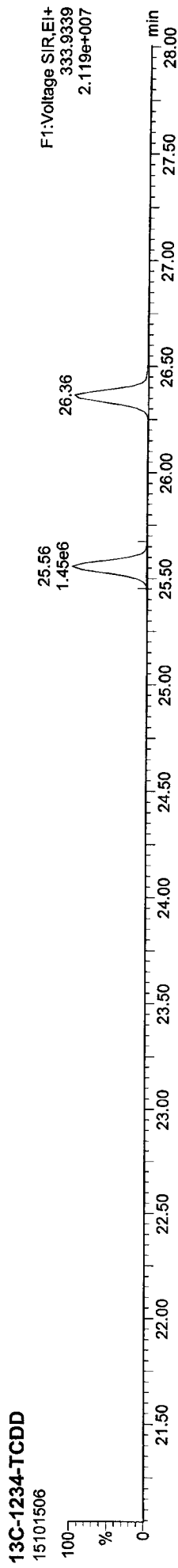
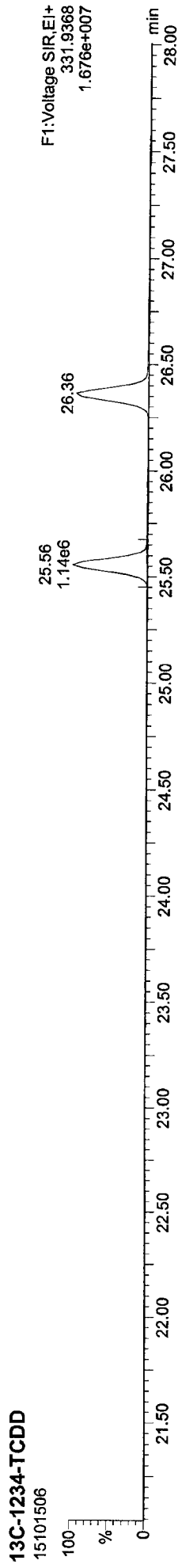
ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	36.643	0.000	1.05e6	8.40e5	1.000	1.251	1.240	2022	1855	1.43e7	1.14e7	7079.2	NO		100.000
Total-tetrafurans			2.55e4		0.827			839		3.70e5					1.976
Total-penta1			0.00e0					400		0.00e0					
Total-pentafurans			3.02e5		0.837			937		4.27e6					20.262
Total-hexafurans			4.69e5		0.977			1419		6.49e6					39.358
Total-heptafurans			1.88e5		1.142			1298		2.50e6					20.036
Total-Furans			1.12e6		0.971			839		1.50e7					101.569
Total-tetradioxins			2.31e4		1.023			956		3.16e5					1.906
Total-pentadioxins			1.16e5		0.939			1151		1.65e6					10.154
Total-hexadioxins			2.98e5		0.919			850		4.22e6					29.500
Total-heptadioxins			8.45e4		0.964			950		1.07e6					10.198
Total-Dioxins			6.58e5		0.950			956		8.62e6					71.283
Total-TEQ			1.78e6					956		2.36e7					172.852
37CL-2378-TCDD	26.377	1.032	5.52e4		1.091			1477		7.70e5		521.1			1.950
FUNCTION1 PFK			0.00e0					625796		0.00e0					
FUNCTION2 PFK			1.60e5					120675		4.48e6					0.000
FUNCTION3 PFK			0.00e0					435461		0.00e0					
FUNCTION4 PFK			2.10e5					302741		6.10e6					
FUNCTION5 PFK			0.00e0					260682		0.00e0					
FUNCTION1 HXCDPE			0.00e0					411		0.00e0					
FUNCTION1 HPCDPE			1.84e2					576		3.15e3					0.000
FUNCTION2 HPCDPE			3.96e2					960		6.89e3					0.000
FUNCTION3 OCDPE			0.00e0					365		0.00e0					
FUNCTION4 NCDPE			0.00e0					566		0.00e0					
FUNCTION5 DCDPE			0.00e0					278		0.00e0					

Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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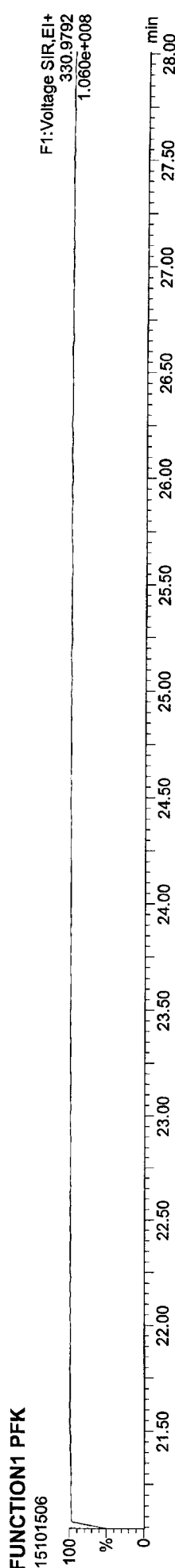
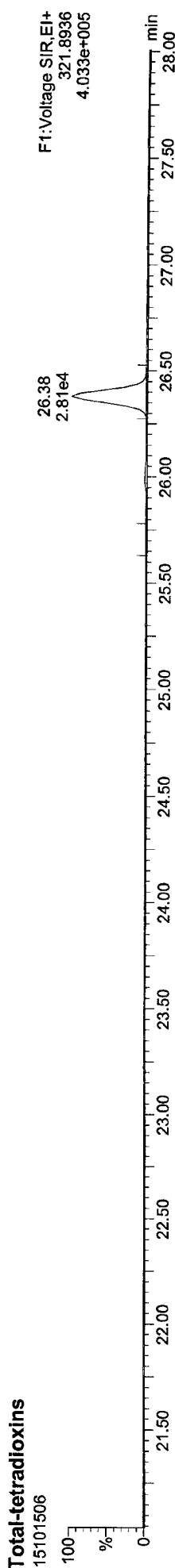
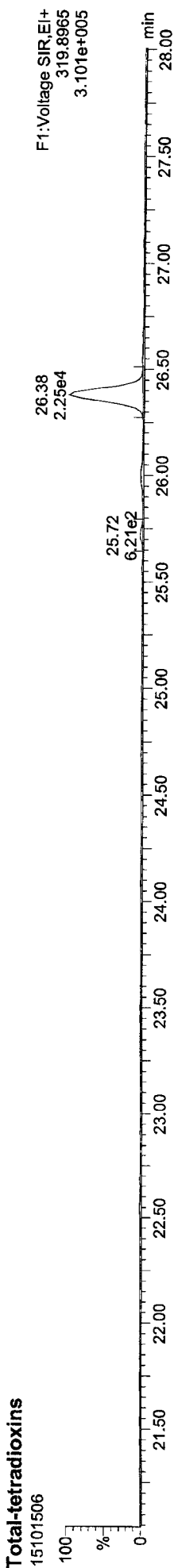
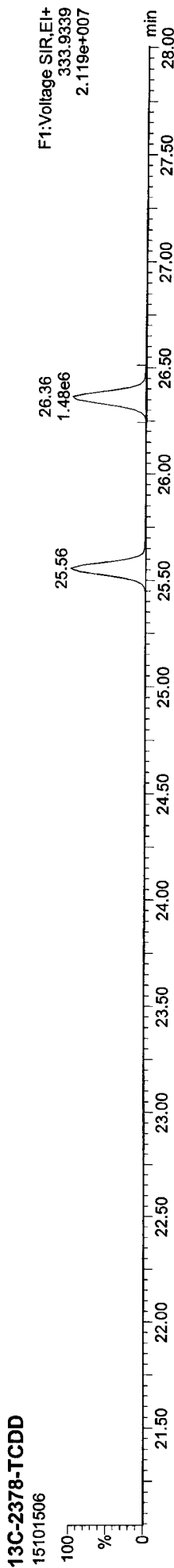
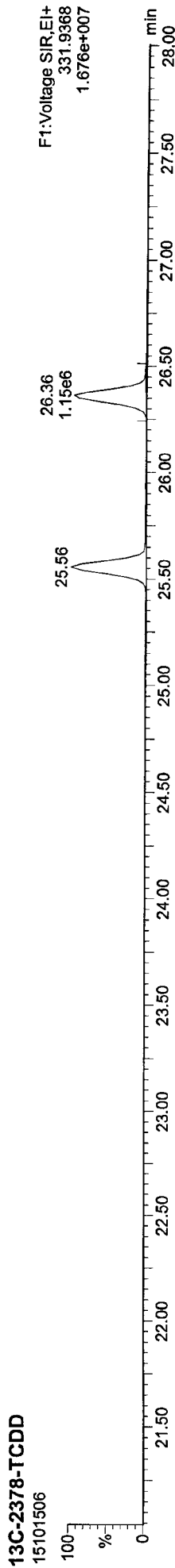
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ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



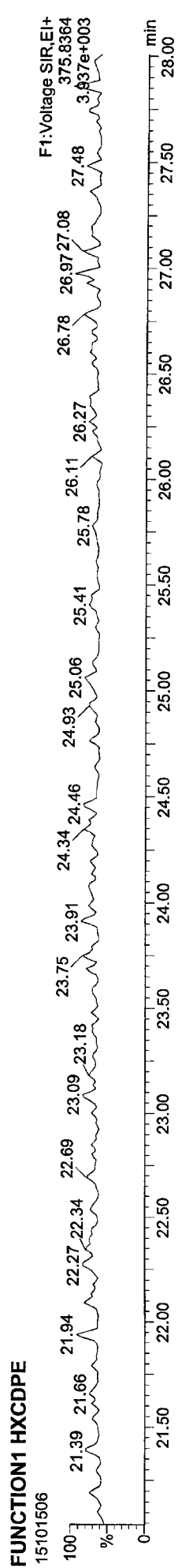
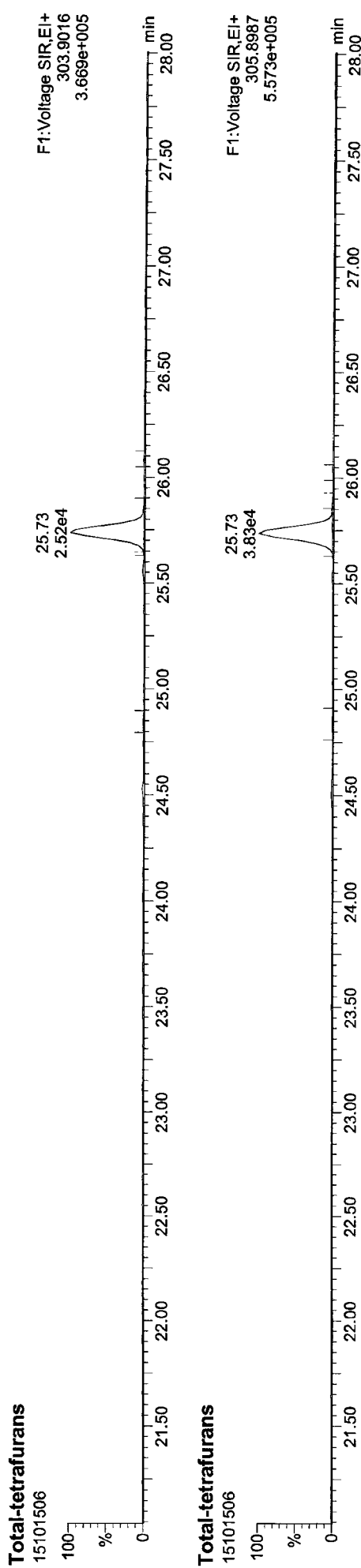
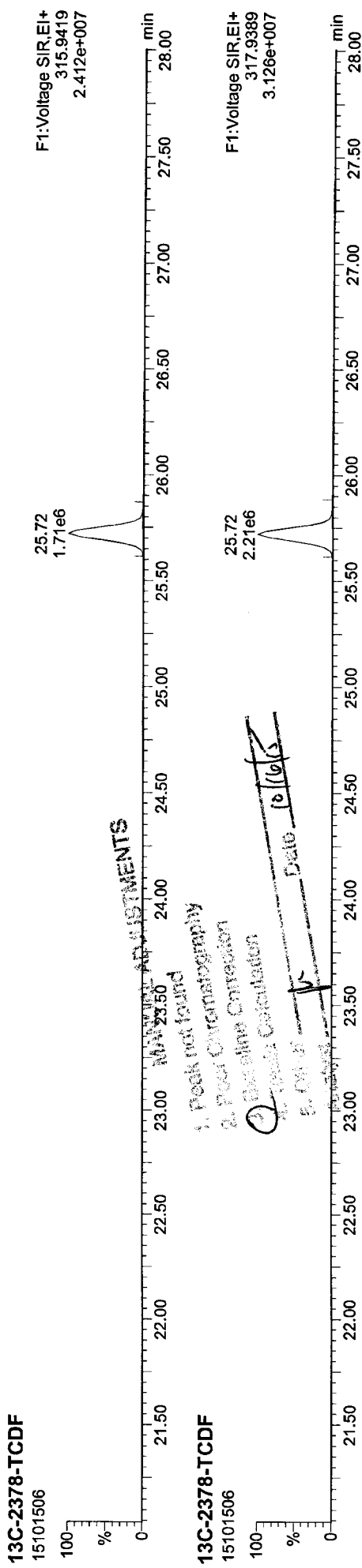
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



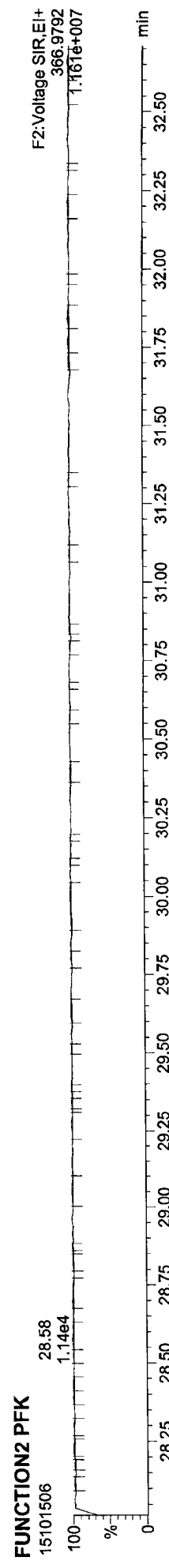
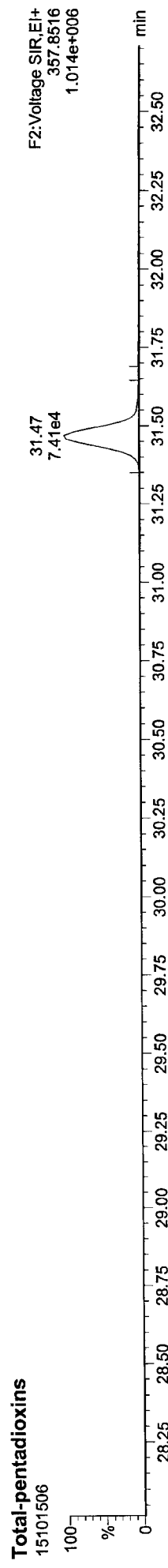
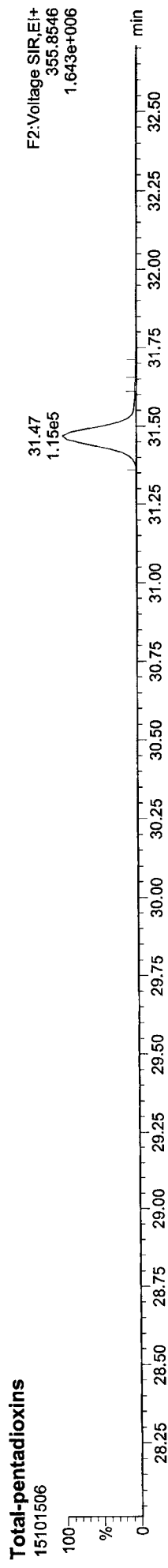
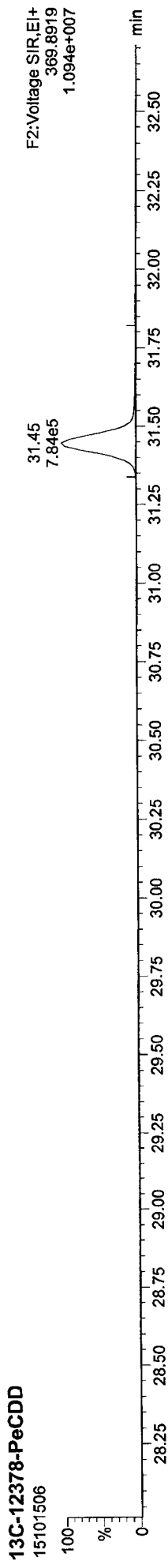
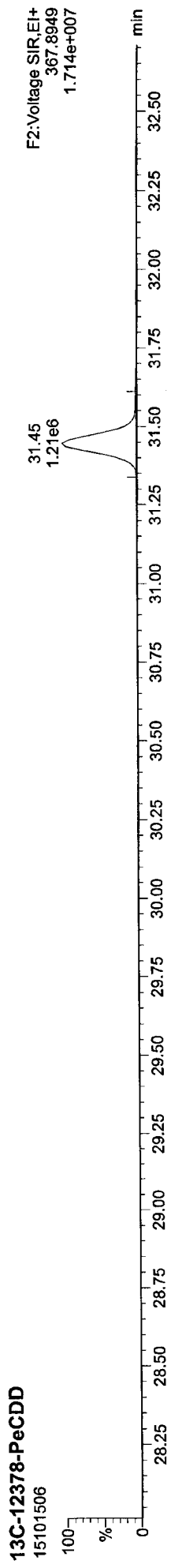
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Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



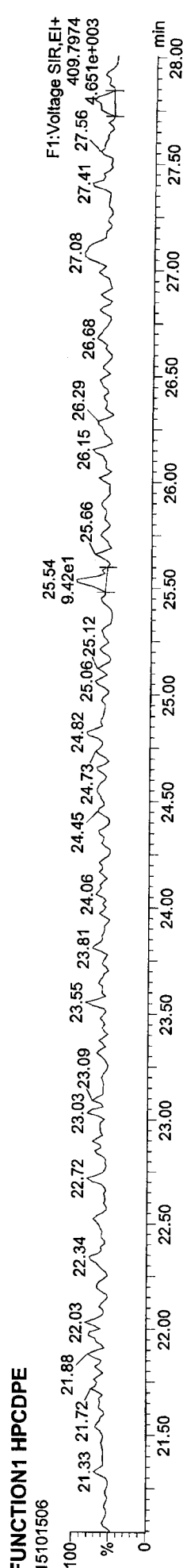
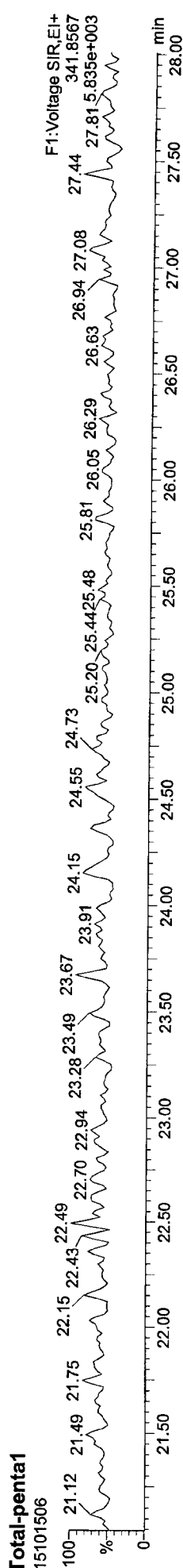
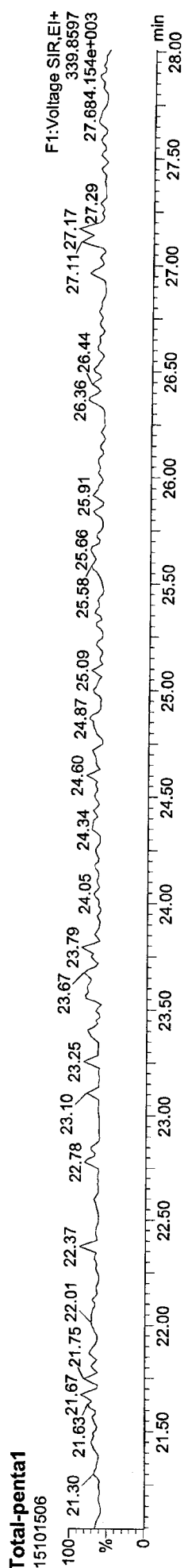
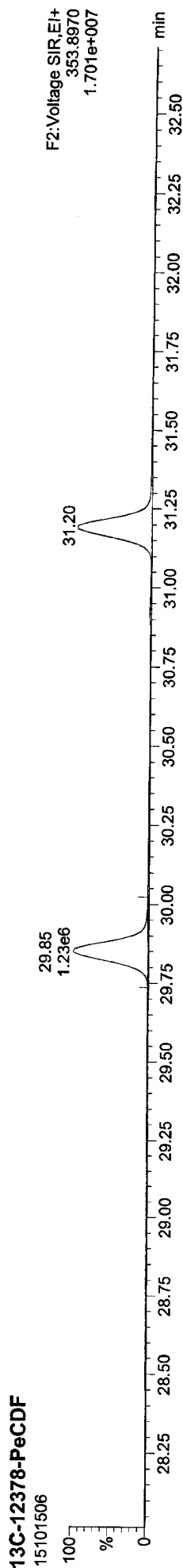
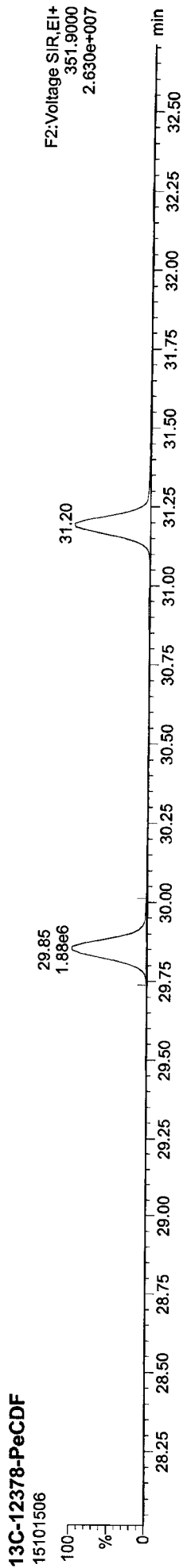
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ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

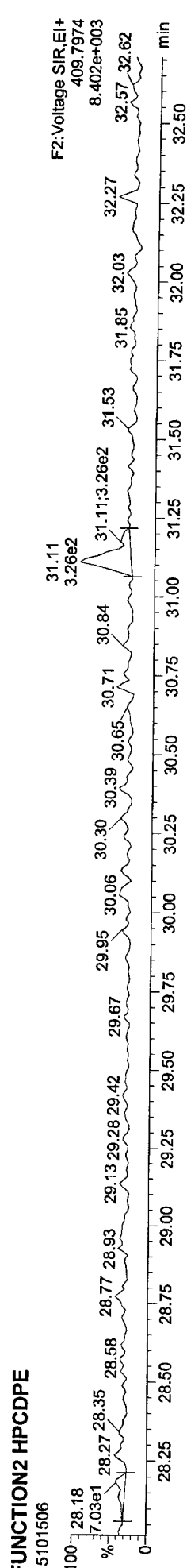
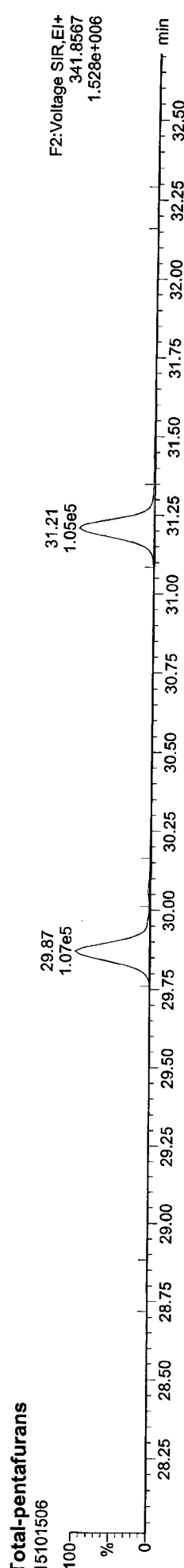
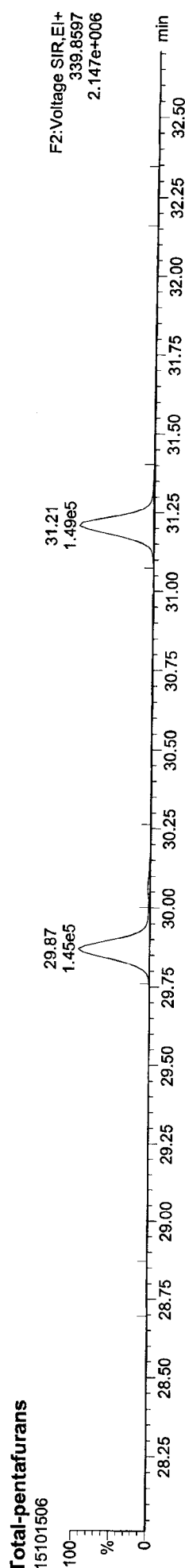
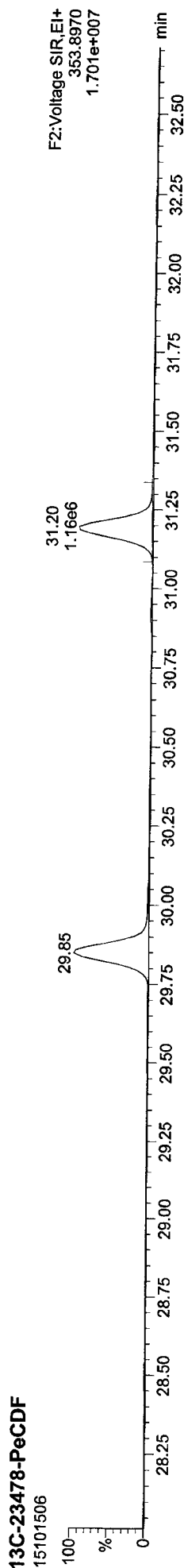
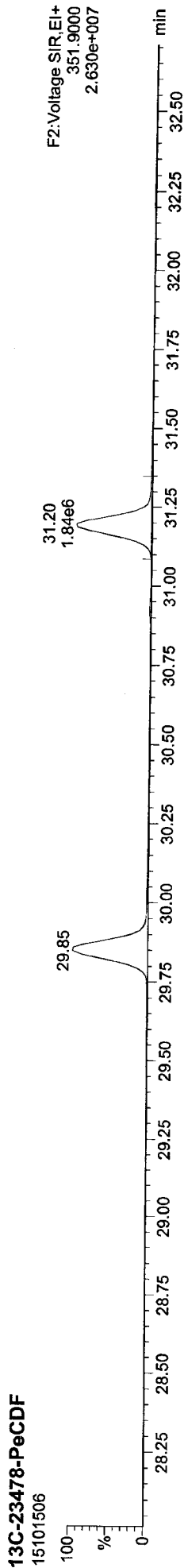


Quantify Sample Report MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

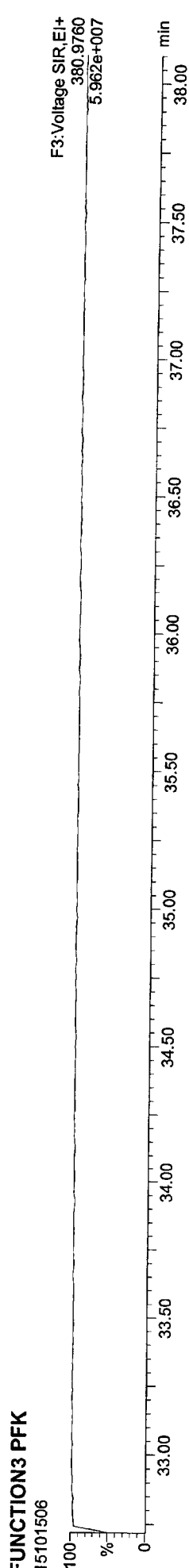
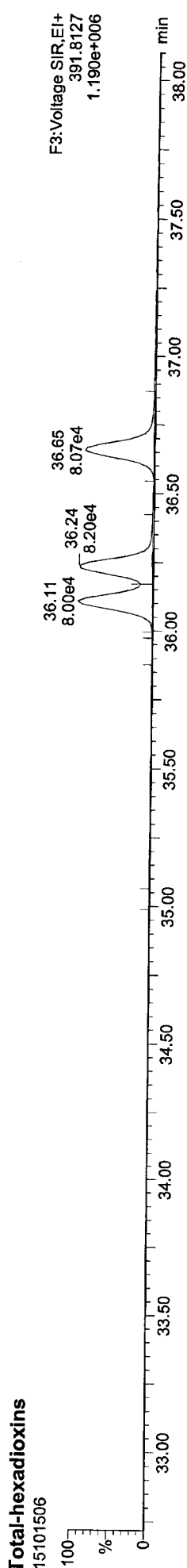
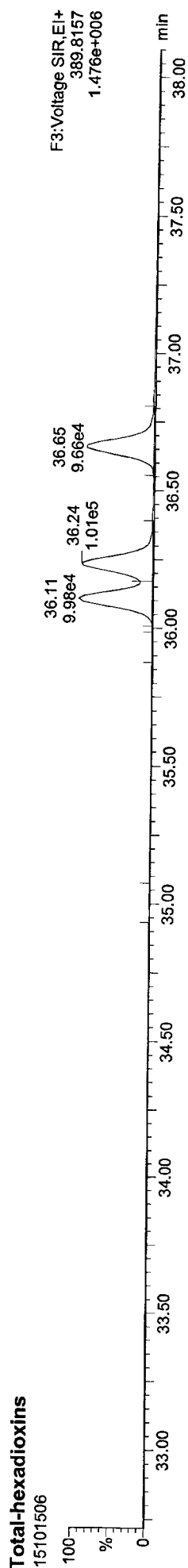
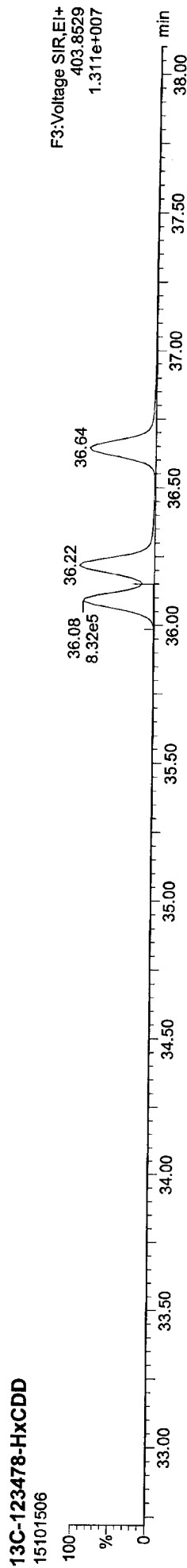
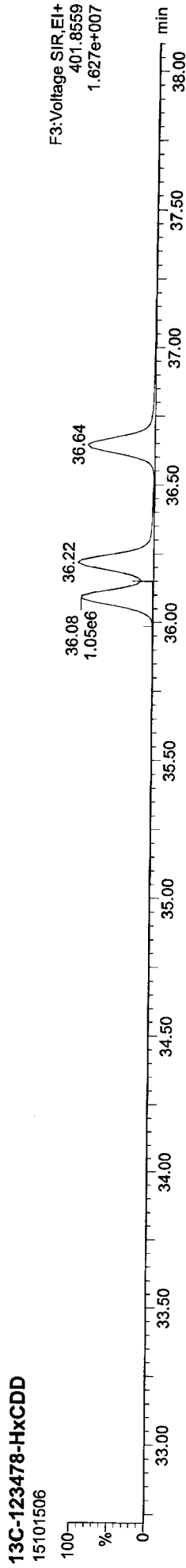


ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



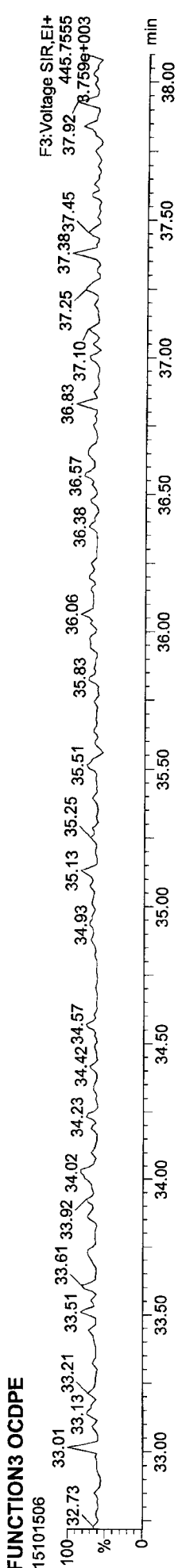
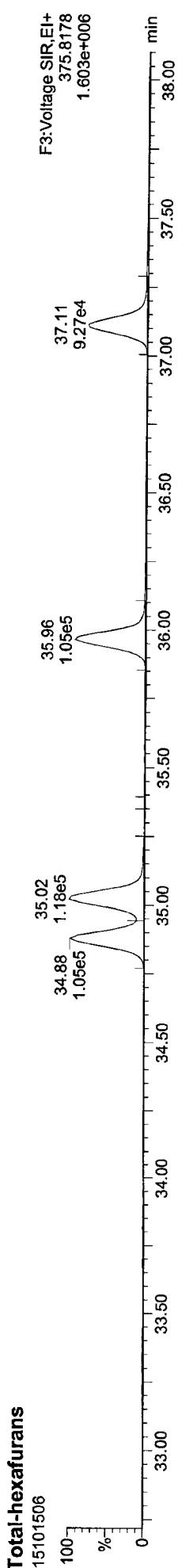
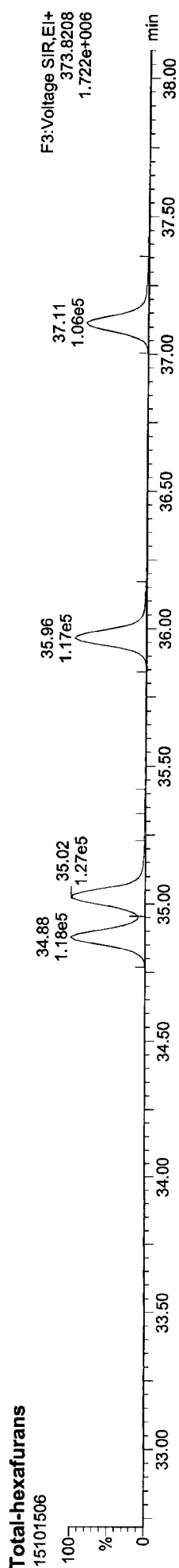
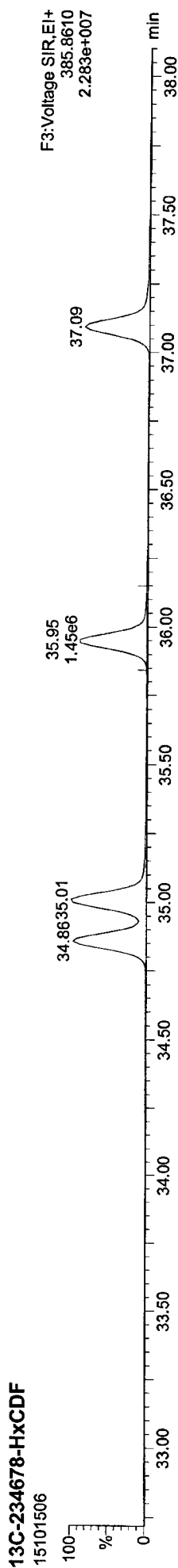
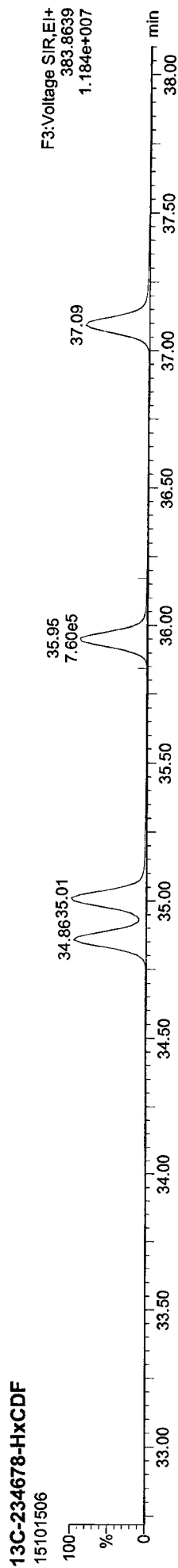
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Dataset: P:\DIOXIN8290.PRO\15101506.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



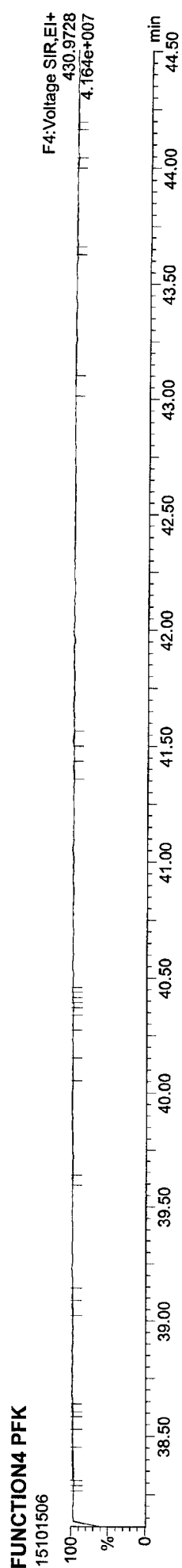
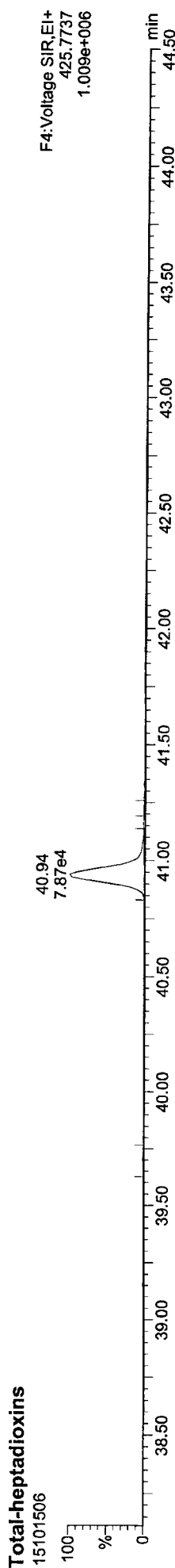
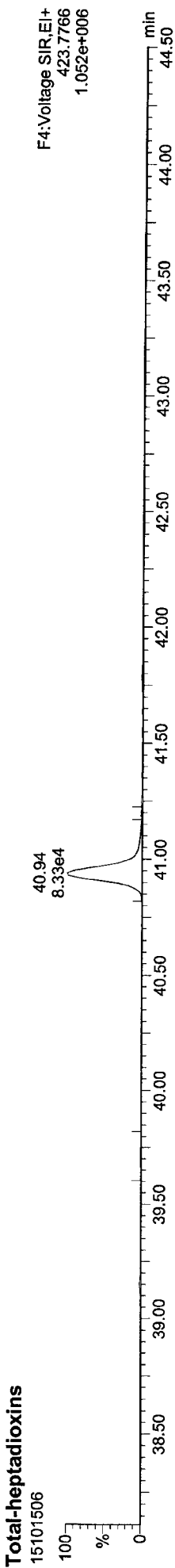
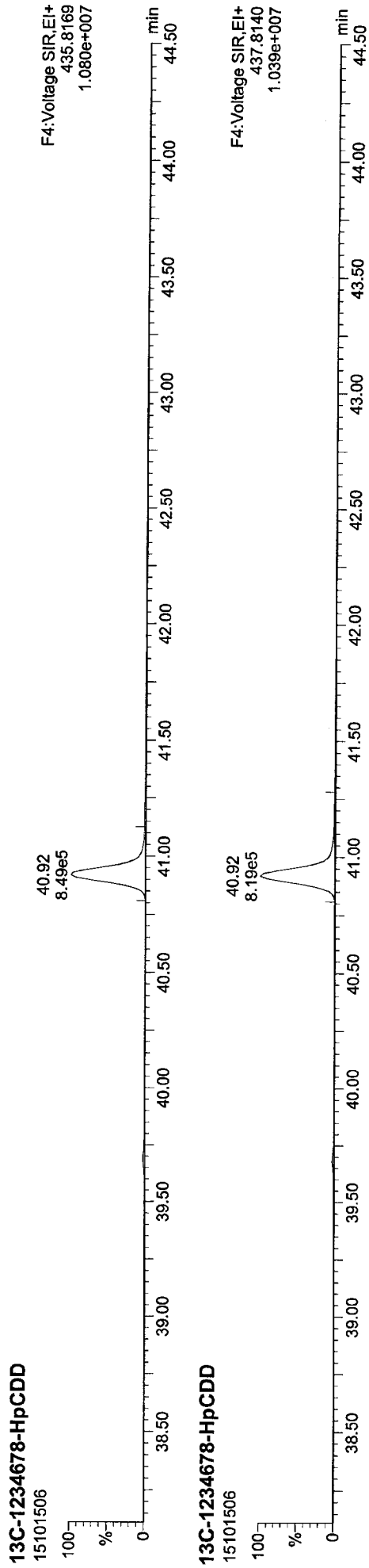
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

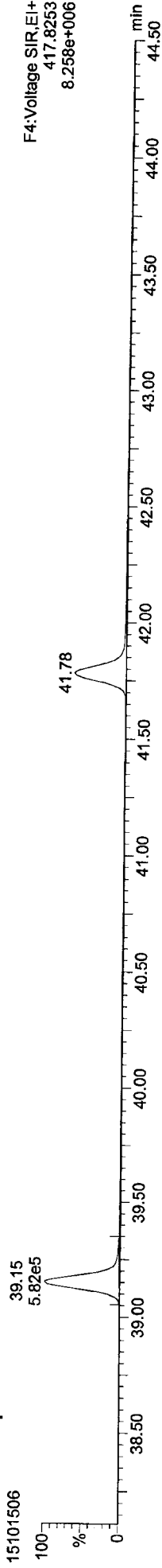


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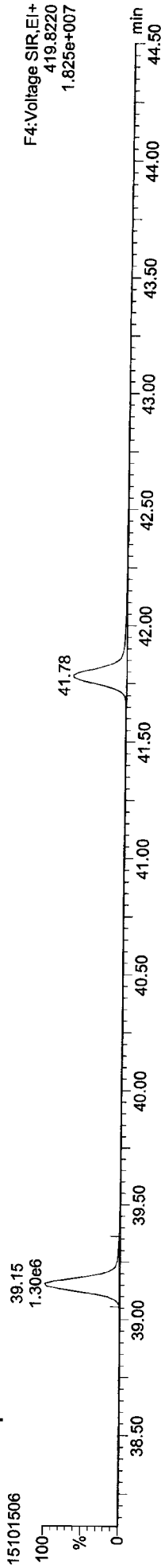
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ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk

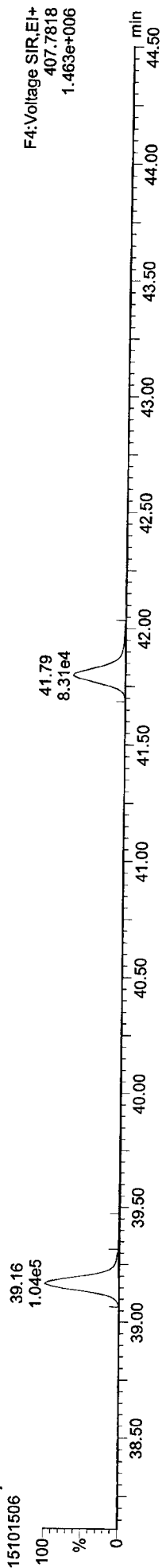
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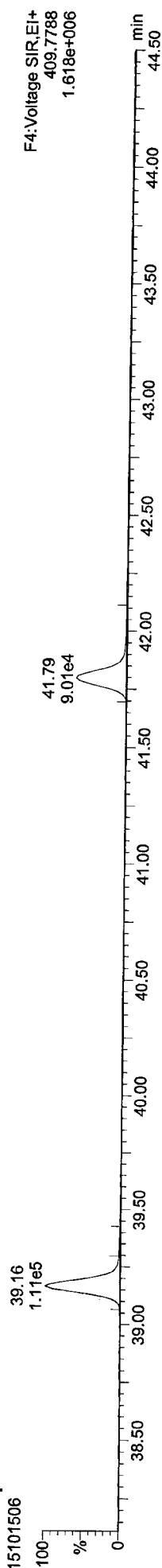
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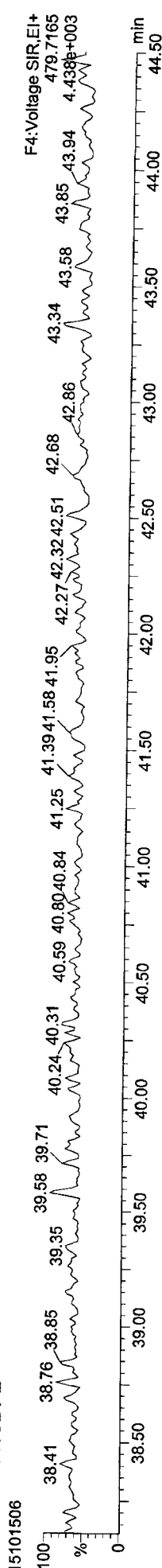
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Total-heptafurans



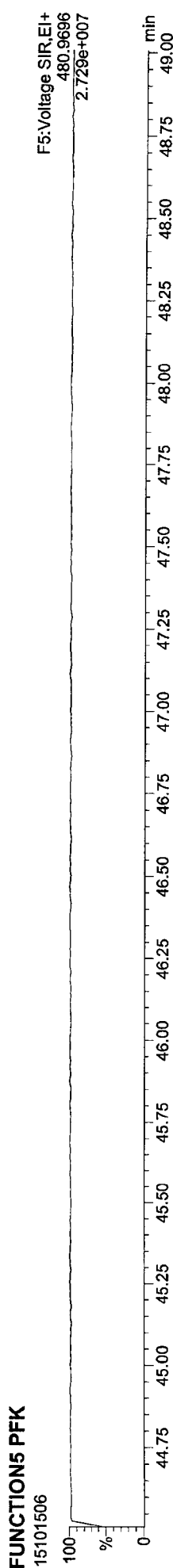
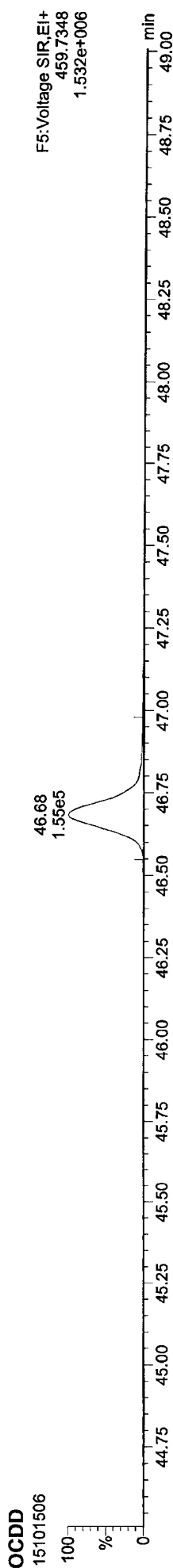
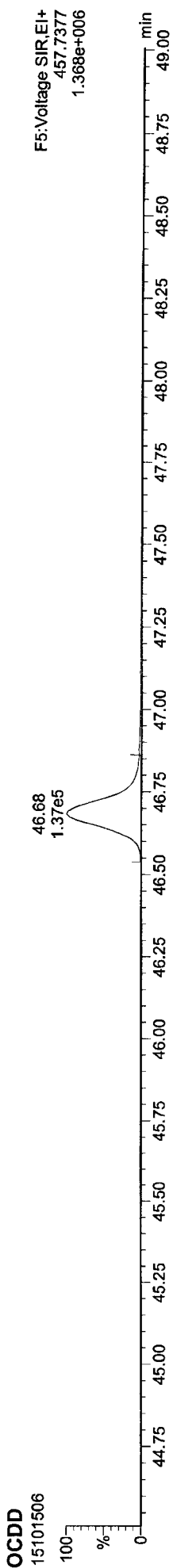
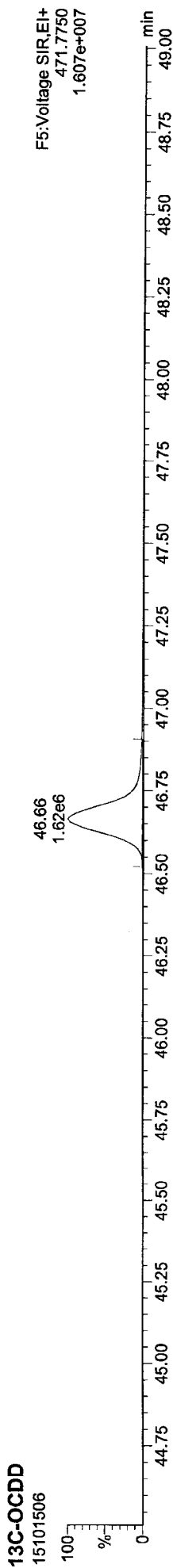
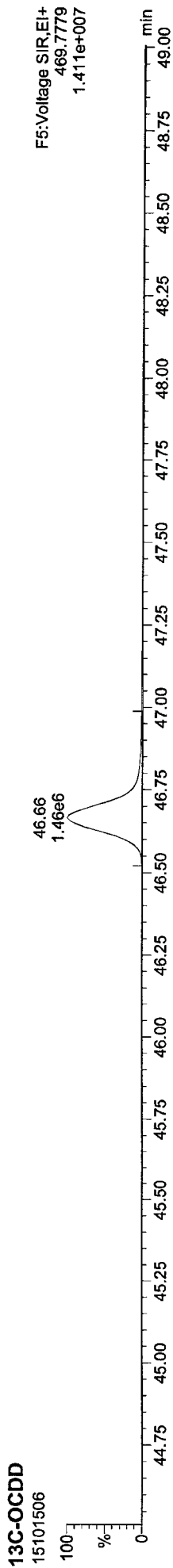
FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\15101506.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

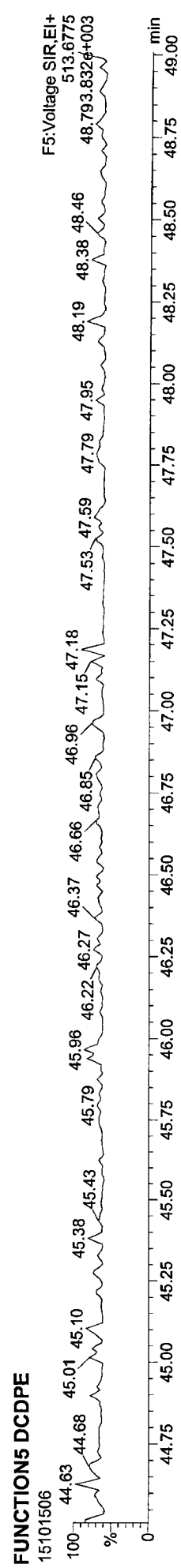
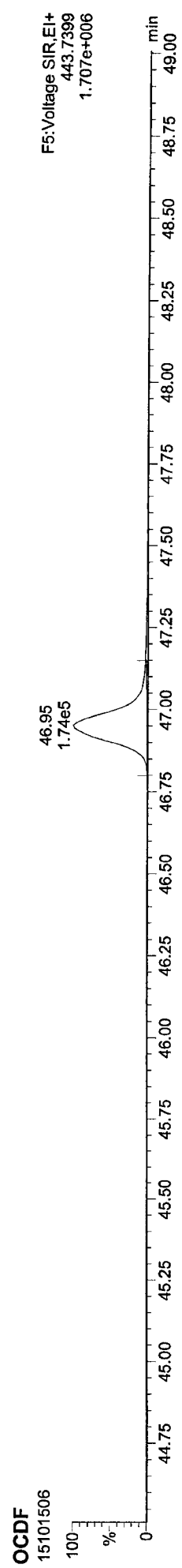
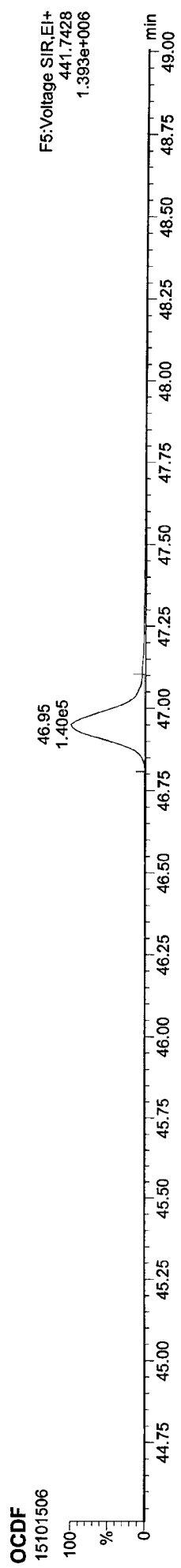
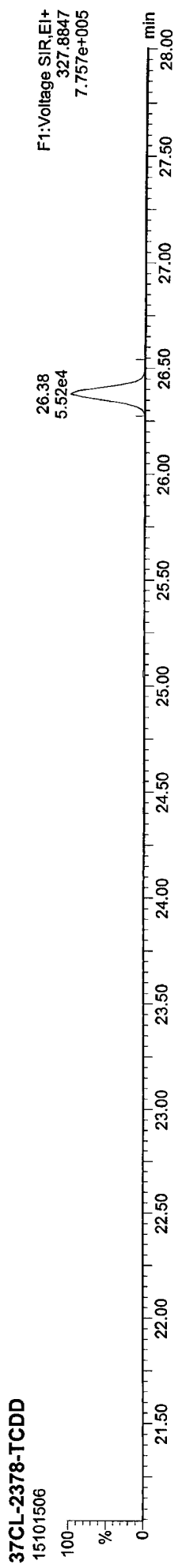
ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:49:59 Pacific Daylight Time

ID: CS2, Name: 15101506, Date: 15-Oct-2015, Time: 16:52:59, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\1510153SN.mdb 15 Oct 2015 16:11:27
 Calibration: P:\DIOXIN8290.PRO\CurveDB\1510151CAL.cdb 16 Oct 2015 09:47:27

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	PredR	Noise1	Noise2	Height1	Height2	S/N	EMPC7	EMPC	pg
2378-TCDF	25.750	1.001	1.48e5	2.24e5	0.827	0.661	0.770	1635	1444	2.09e6	3.19e6	1280.9	NO	9.965	9.965
12378-PeCDF	29.880	1.000	8.77e5	6.25e5	0.824	1.404	1.550	2596	2474	1.25e7	8.98e6	4815.8	NO	51.210	51.210
23478-PeCDF	31.218	1.000	8.61e5	6.18e5	0.850	1.394	1.550	2596	2474	1.25e7	8.96e6	4814.9	NO	50.437	50.437
123478-HxCDF	34.889	1.001	6.87e5	6.04e5	0.973	1.138	1.240	3574	5225	9.98e6	8.86e6	2792.2	NO	50.593	50.593
234678-HxCDF	35.975	1.001	6.80e5	6.15e5	1.025	1.106	1.240	3574	5225	9.64e6	8.64e6	2697.4	NO	50.959	50.959
123678-HxCDF	35.032	1.000	7.12e5	6.64e5	0.953	1.073	1.240	3574	5225	9.89e6	8.94e6	2766.8	NO	50.555	50.555
123789-HxCDF	37.126	1.001	5.81e5	5.30e5	0.956	1.097	1.240	3574	5225	8.04e6	7.22e6	2249.8	NO	48.065	48.065
1234678-HpCDF	39.175	1.000	5.94e5	6.49e5	1.153	0.916	1.050	2948	2978	8.69e6	9.21e6	2947.4	NO	50.934	50.934
1234789-HpCDF	41.806	1.000	4.74e5	5.09e5	1.131	0.930	1.050	2948	2978	5.89e6	6.25e6	1996.7	NO	51.541	51.541
OCDF	46.961	1.006	8.10e5	9.78e5	1.023	0.828	0.890	1918	3140	7.67e6	9.30e6	3999.3	NO	101.917	101.917
2378-TCDD	26.392	1.001	1.33e5	1.67e5	1.023	0.795	0.770	1346	1088	1.93e6	2.40e6	1435.2	NO	9.546	9.546
12378-PeCDD	31.481	1.001	6.50e5	4.24e5	0.939	1.534	1.550	3247	2345	9.31e6	5.99e6	2868.1	NO	49.938	49.938
123478-HxCDD	36.117	1.001	5.83e5	4.70e5	0.963	1.241	1.240	3172	3754	8.45e6	6.74e6	2662.7	NO	50.751	50.751
123678-HxCDD	36.249	1.001	5.95e5	4.76e5	0.894	1.250	1.240	3172	3754	8.34e6	6.60e6	2628.5	NO	49.635	49.635
123789-HxCDD	36.665	1.012	5.63e5	4.67e5	0.900	1.205	1.240	3172	3754	7.99e6	6.49e6	2520.0	NO	50.097	50.097
1234678-HpCDD	40.940	1.000	4.66e5	4.46e5	0.964	1.045	1.050	2500	2672	5.86e6	5.70e6	2342.8	NO	51.110	51.110
OCDD	46.692	1.000	7.93e5	8.94e5	0.969	0.887	0.890	1924	2997	7.73e6	8.76e6	4015.6	NO	101.536	101.536
13C-2378-TCDF	25.735	1.006	1.98e6	2.54e6	1.502	0.777	0.770	4103	2128	2.80e7	3.61e7	6831.3	NO	99.121	99.121
13C-12378-PeCDF	29.869	1.168	2.17e6	1.39e6	1.215	1.564	1.550	3436	3503	3.05e7	1.94e7	8869.4	NO	96.507	96.507
13C-23478-PeCDF	31.207	1.220	2.11e6	1.34e6	1.181	1.569	1.550	3436	3503	2.98e7	1.89e7	8686.2	NO	96.216	96.216
13C-123478-HxCDF	34.868	0.951	8.89e5	1.74e6	1.246	0.511	0.510	4050	5222	1.26e7	2.47e7	3107.0	NO	103.127	103.127
13C-123678-HxCDF	35.021	0.955	9.55e5	1.90e6	1.375	0.502	0.510	4050	5222	1.33e7	2.57e7	3276.3	NO	101.719	101.719
13C-234678-HxCDF	35.953	0.981	8.46e5	1.63e6	1.186	0.518	0.510	4050	5222	1.18e7	2.29e7	2925.5	NO	102.306	102.306
13C-123789-HxCDF	37.104	1.012	8.22e5	1.60e6	1.135	0.515	0.510	4050	5222	1.12e7	2.18e7	2757.3	NO	104.332	104.332
13C-1234678-HpCDF	39.164	1.069	6.46e5	1.47e6	1.020	0.440	0.440	2620	3278	9.11e6	2.04e7	3478.6	NO	101.503	101.503
13C-1234789-HpCDF	41.784	1.140	5.18e5	1.17e6	0.824	0.443	0.440	2620	3278	6.14e6	1.38e7	2343.4	NO	100.233	100.233
13C-12334-TCDD	25.570	0.000	1.34e6	1.70e6	1.000	0.788	0.770	2546	1117	1.91e7	2.42e7	7495.4	NO	100.000	100.000
13C-2378-TCDD	26.377	1.032	1.35e6	1.72e6	0.993	0.786	0.770	2546	1117	1.85e7	2.35e7	7274.0	NO	103.155	103.155
13C-12378-PeCDD	31.459	1.230	1.40e6	8.90e5	0.787	1.573	1.550	1509	1046	2.01e7	1.27e7	13319.8	NO	95.870	95.870
13C-123478-HxCDD	36.095	0.985	1.20e6	9.53e5	1.031	1.260	1.240	1966	1269	1.74e7	1.39e7	8638.3	NO	102.307	102.307
13C-123678-HxCDD	36.227	0.988	1.33e6	1.08e6	1.137	1.226	1.240	1966	1269	1.87e7	1.51e7	9507.2	NO	104.017	104.017
13C-1234678-HpCDD	40.929	1.117	9.49e5	9.02e5	0.892	1.052	1.050	2167	2336	1.21e7	1.16e7	5603.6	NO	101.551	101.551
13C-OCDD	46.674	1.273	1.62e6	1.81e6	0.852	0.900	0.890	2426	2975	1.56e7	1.75e7	6441.4	NO	197.193	197.193

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk

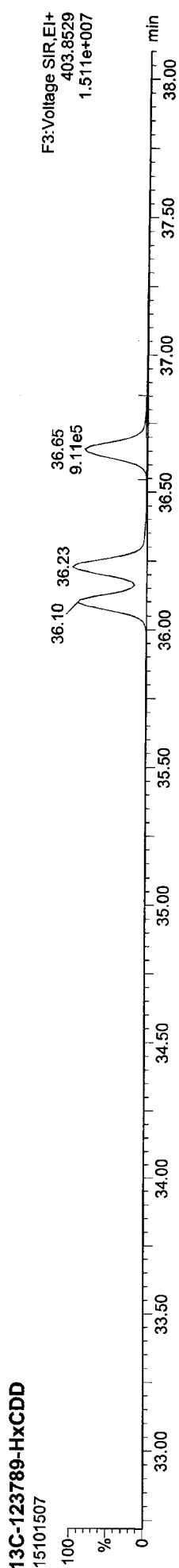
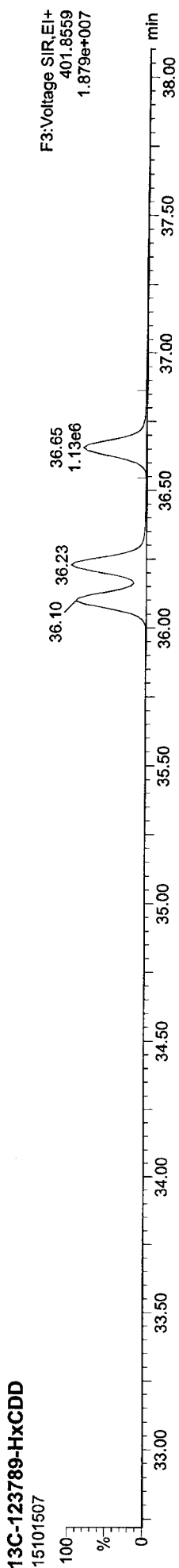
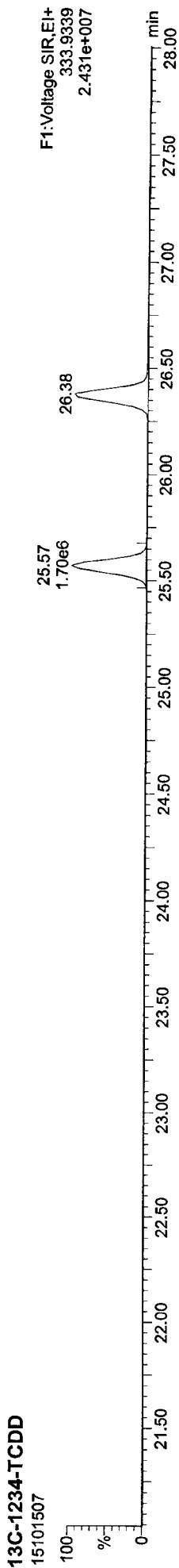
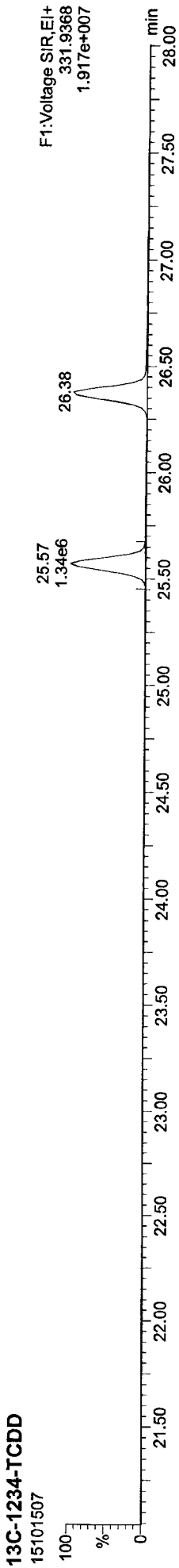
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Total-tetrafurans			4.56e5		0.827			1635		6.51e6					30.520
Total-penta1			1.35e6					1234		1.90e7					69.154
Total-pentafurans			2.64e6		0.837			2596		3.78e7					154.462
Total-hexafurans			3.48e6		0.977			3574		4.92e7					261.036
Total-heptafurans			1.07e6		1.142			2948		1.46e7					102.756
Total-Furans			9.81e6		0.971			1635		1.35e8					719.863
Total-tetraioxins			7.33e5		1.023			1346		8.95e6					52.983
Total-pentadioxins			2.33e6		0.939			3247		2.86e7					178.127
Total-hexadioxins			2.49e6		0.919			3172		3.56e7					215.714
Total-heptadioxins			1.01e6		0.964			2500		1.32e7					109.915
Total-Dioxins			7.35e6		0.950			1346		9.41e7					658.283
Total-TEQ			1.72e7					1346		2.29e8					1378.147
37CL-2378-TCDD	26.392	1.032	3.31e5		1.091			1268		4.73e6		3727.2			10.009
FUNCTION1 PFK			4.74e5					551976		6.71e6					
FUNCTION2 PFK			1.12e5					96938		3.54e6					0.000
FUNCTION3 PFK			6.72e5					408622		1.67e7					0.000
FUNCTION4 PFK			5.25e5					291757		1.63e7					
FUNCTION5 PFK			2.09e5					199987		7.29e6					
FUNCTION1 HXCDPE			2.35e2					456		3.03e3					0.000
FUNCTION1 HPCDPE			1.68e2					713		4.25e3					0.000
FUNCTION2 HPCDPE			1.52e3					827		2.45e4					0.000
FUNCTION3 OCDPE			0.00e0					292		0.00e0					
FUNCTION4 NCDPE			0.00e0					634		0.00e0					
FUNCTION5 DCDPE			0.00e0					288		0.00e0					

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

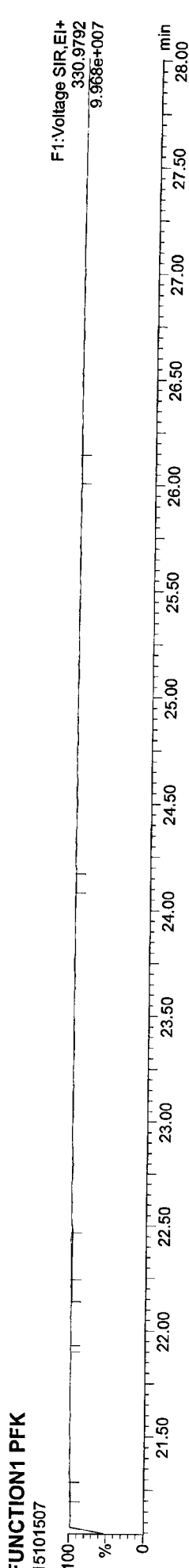
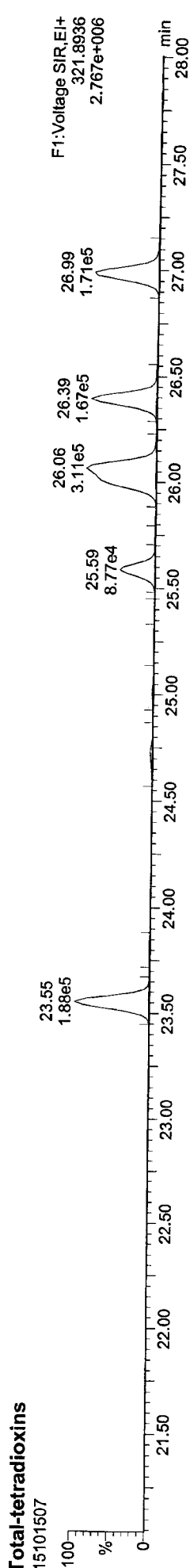
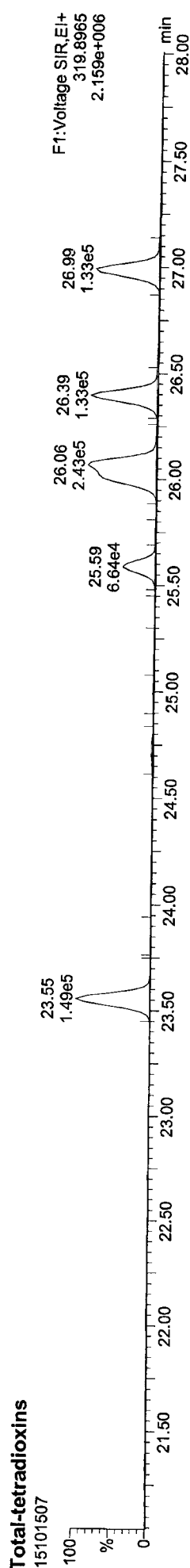
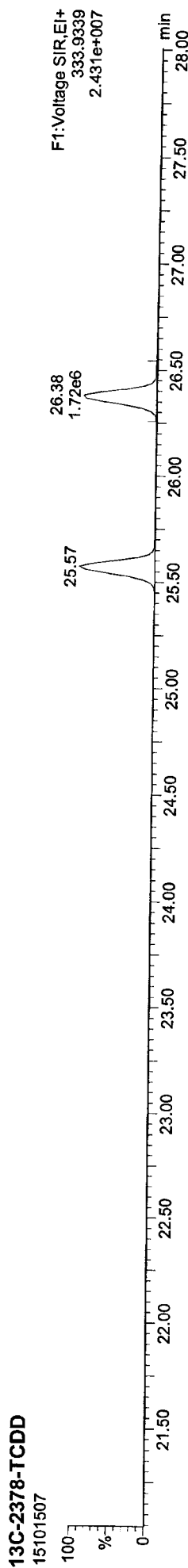
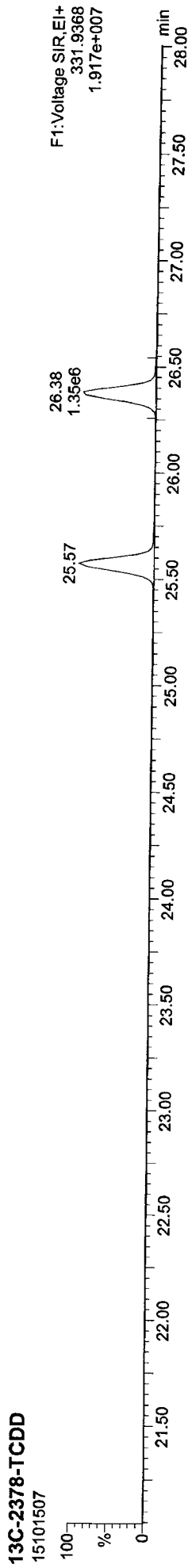
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Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin\1510153SN.mdb 15 Oct 2015 16:11:27
Calibration: P:\DIOXIN8290.PRO\CurveDB\151015ICAL.cdb 16 Oct 2015 09:47:27

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk

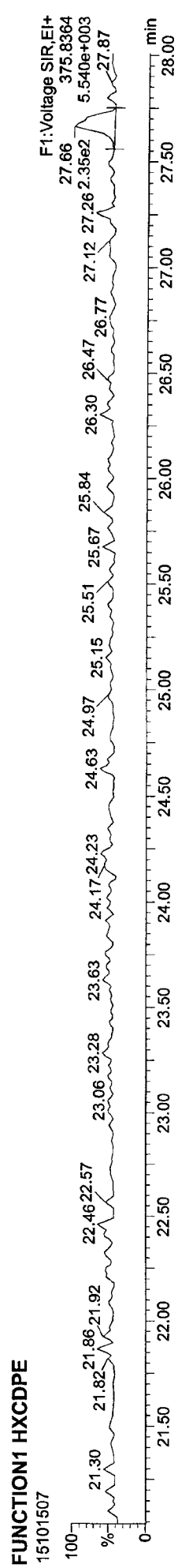
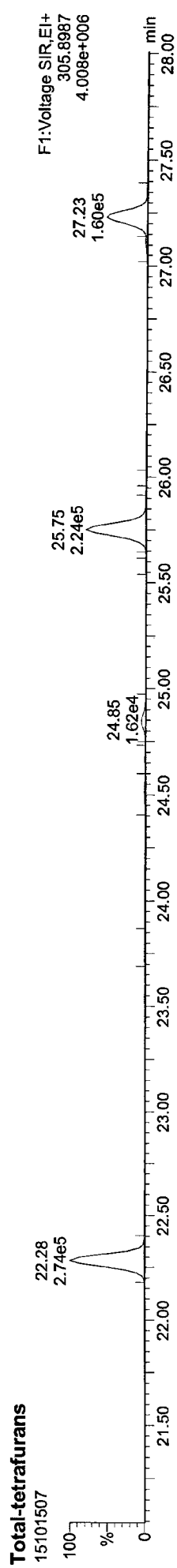
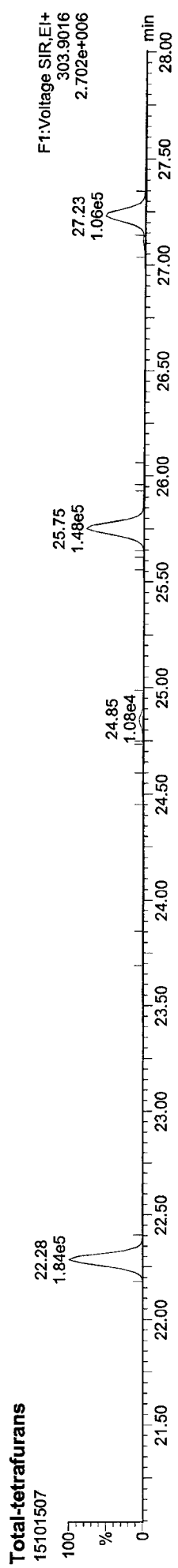
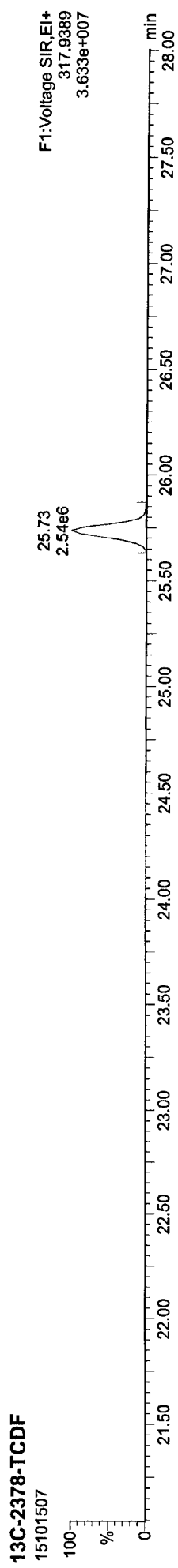
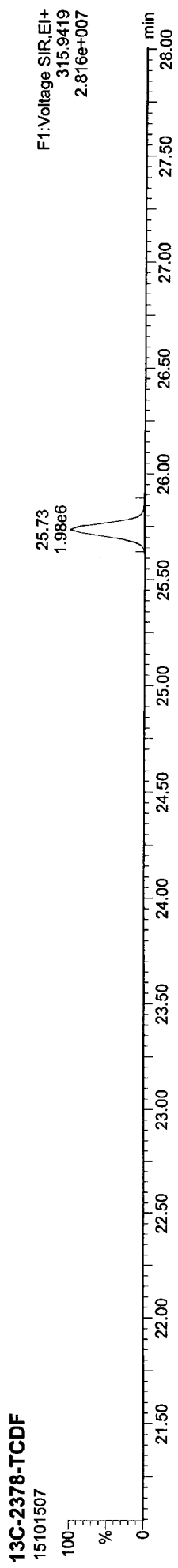


ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



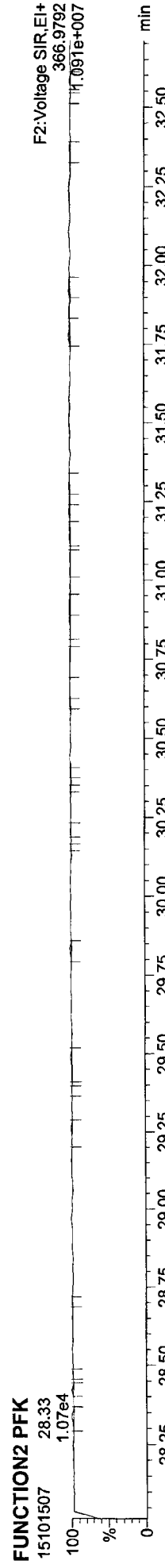
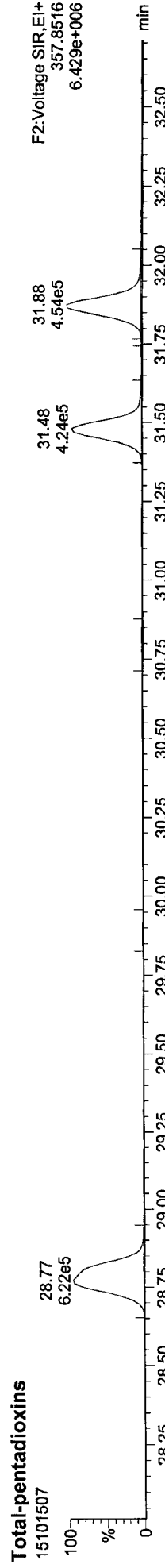
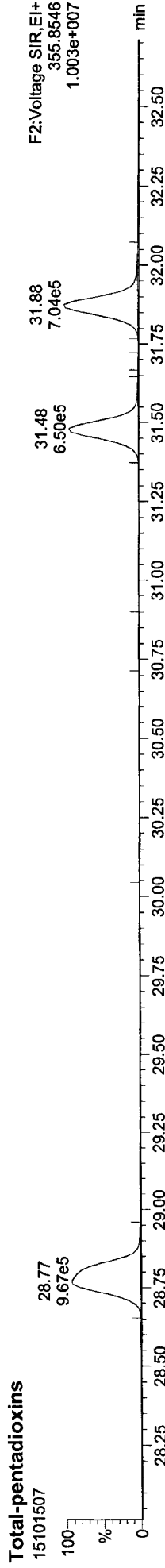
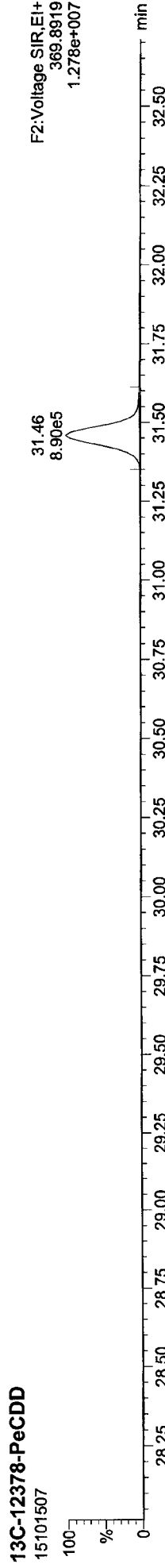
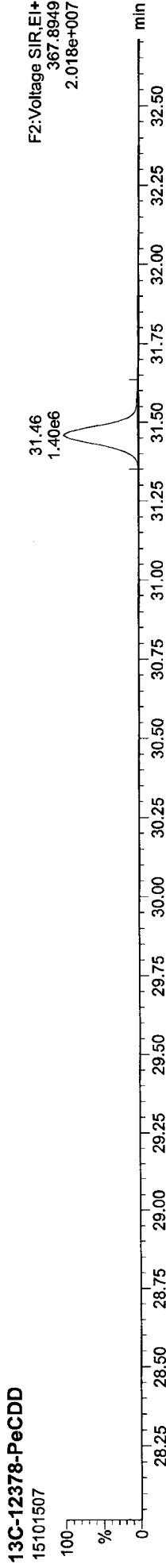
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
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ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



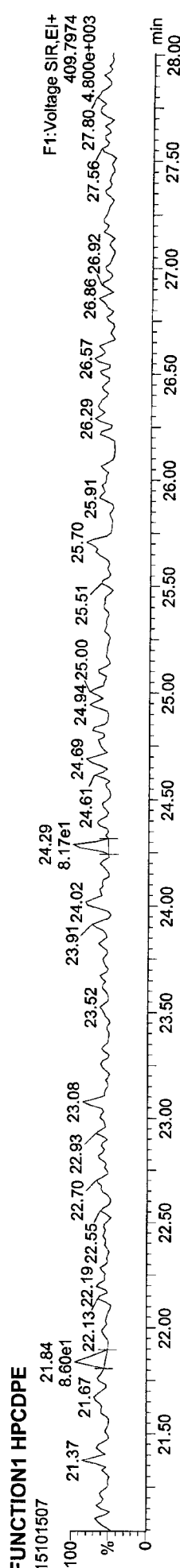
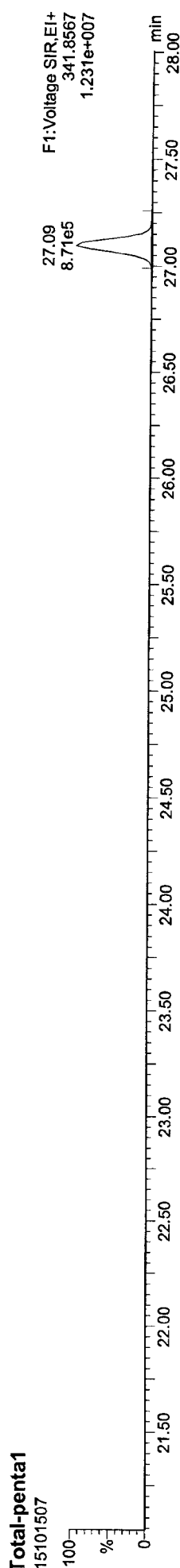
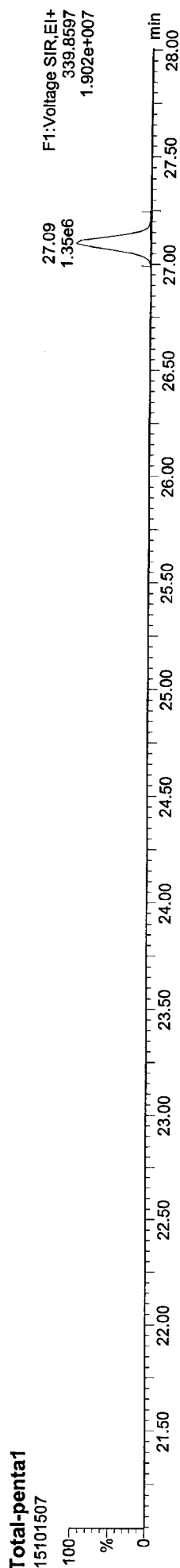
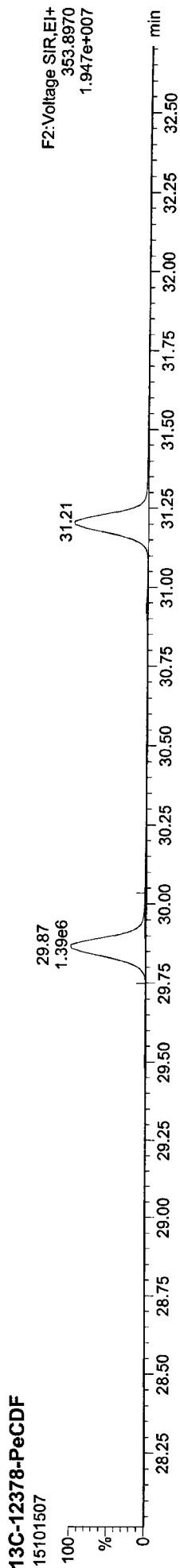
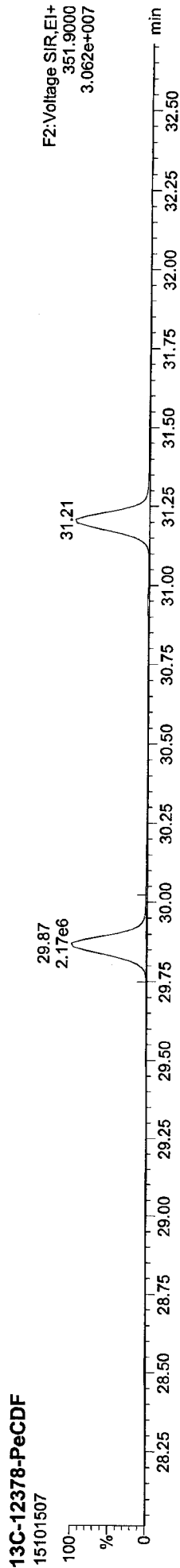
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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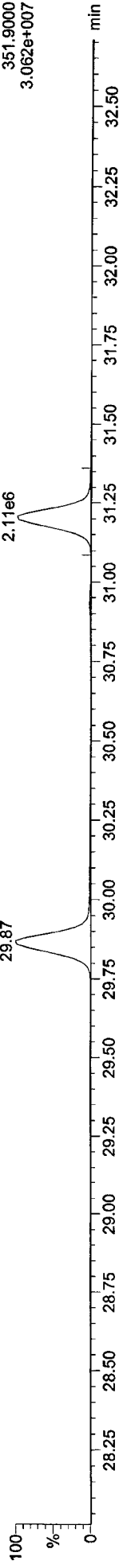
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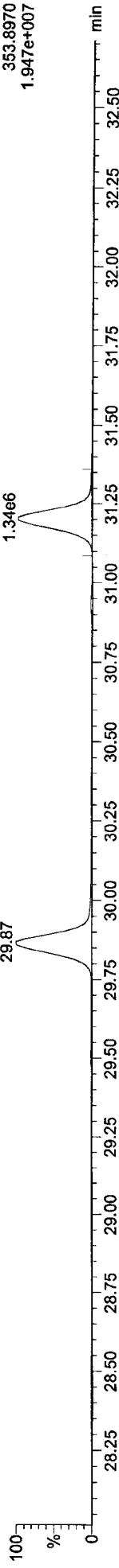
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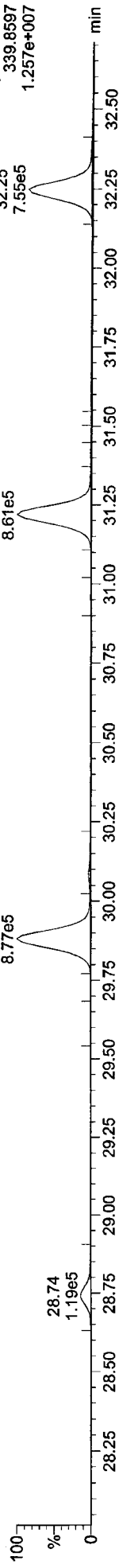
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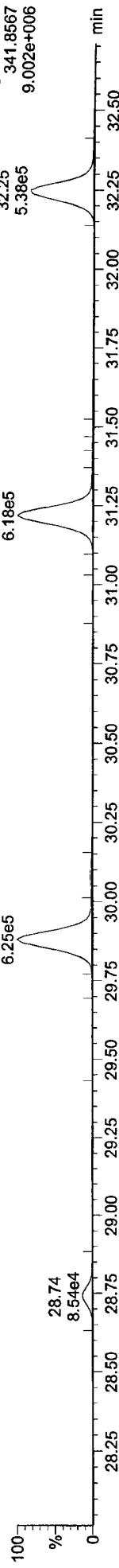
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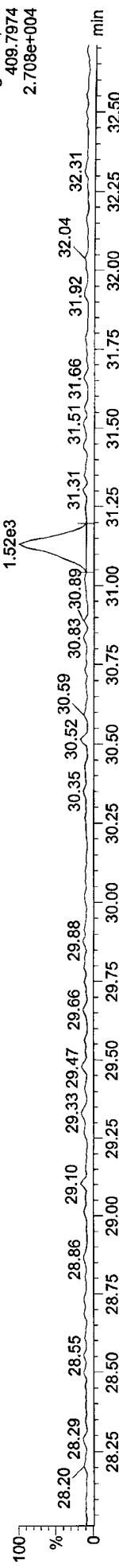
Total-pentafurans

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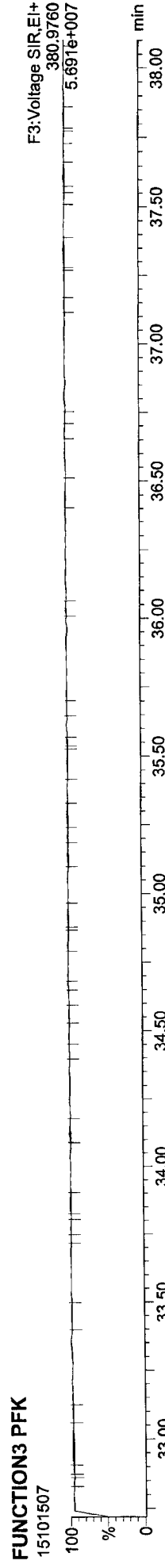
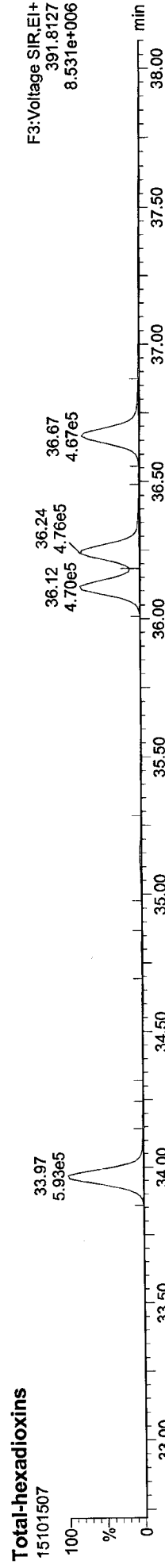
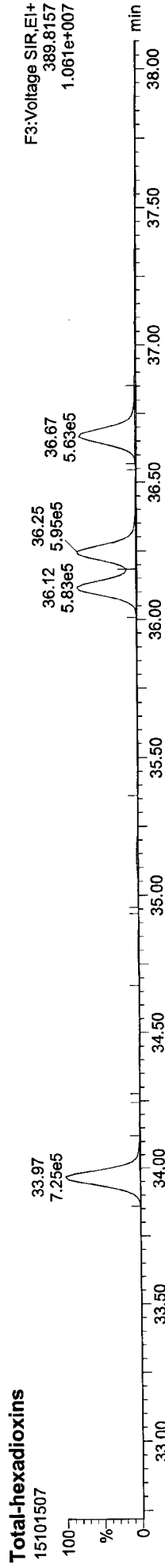
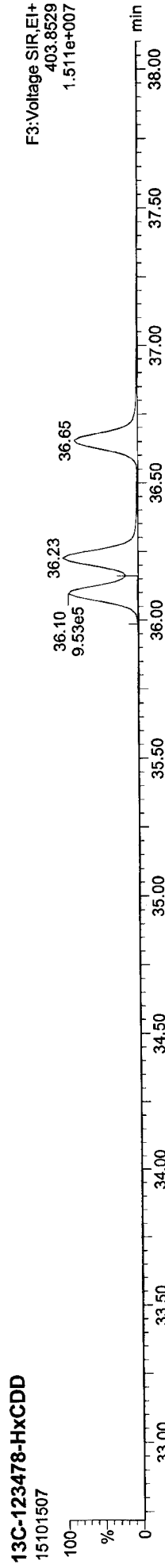
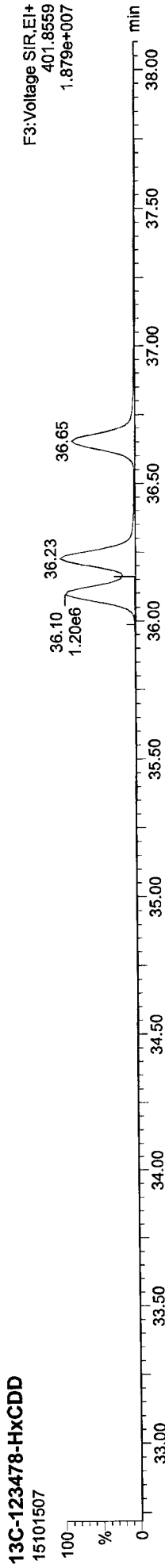
FUNCTION2 HPCDPE

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Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk

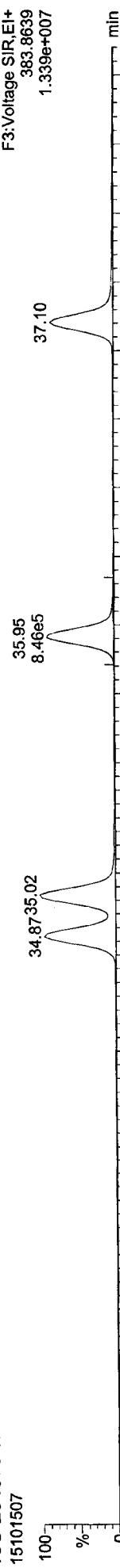


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

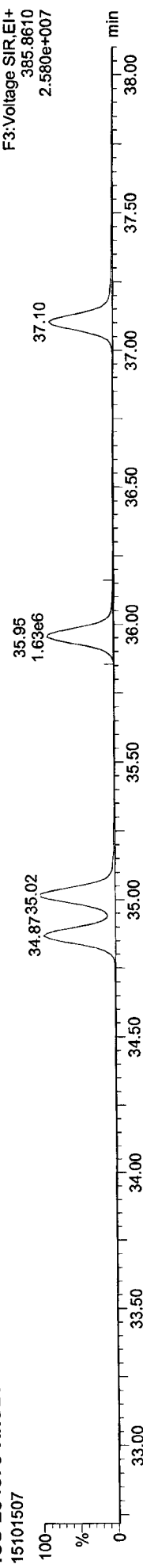
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ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk

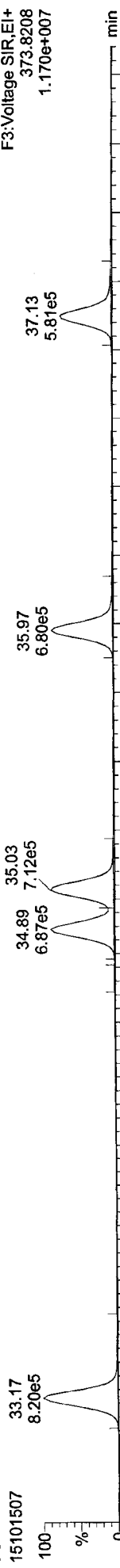
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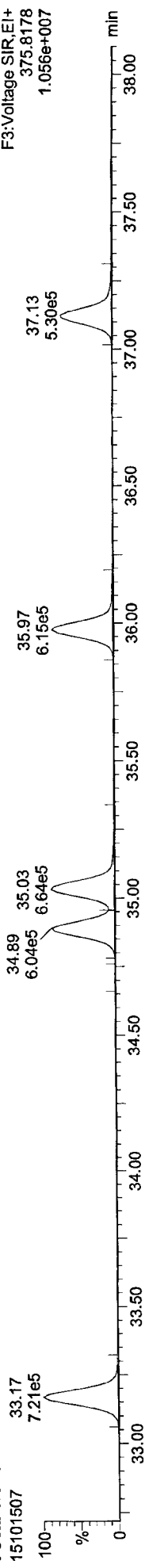
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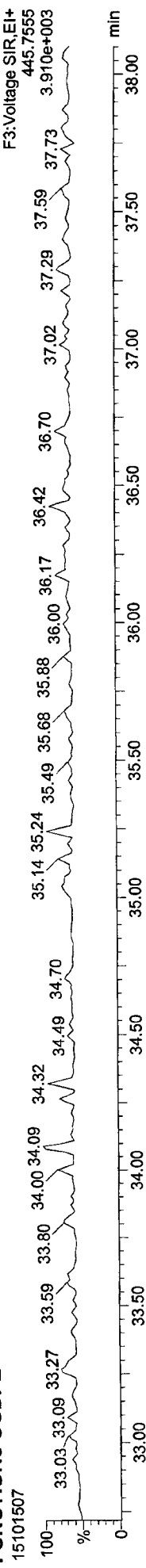
Total-hexafurans



Total-hexafurans

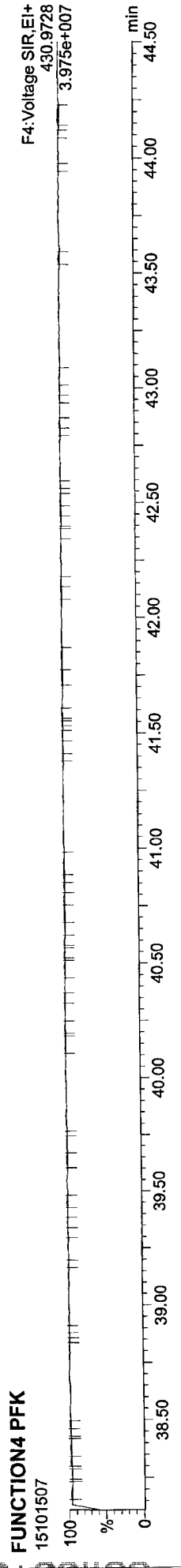
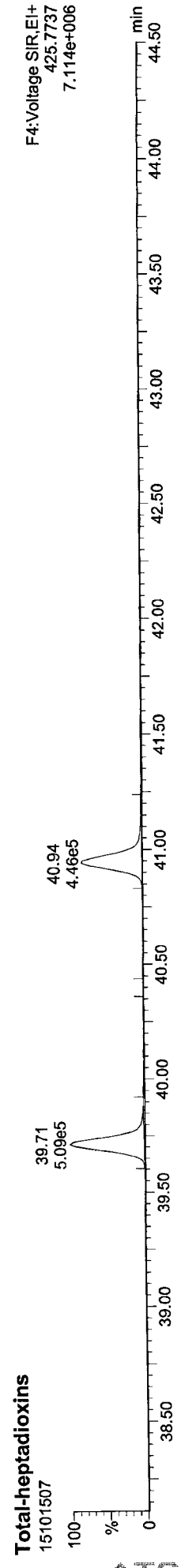
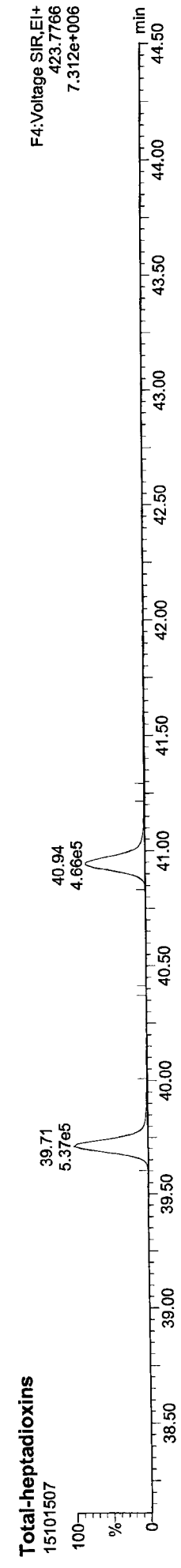
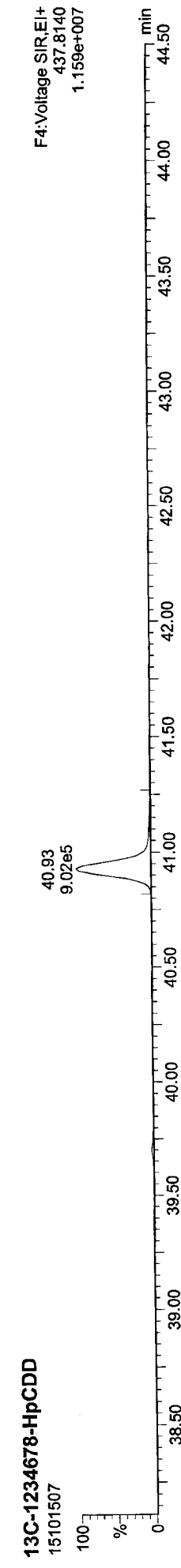
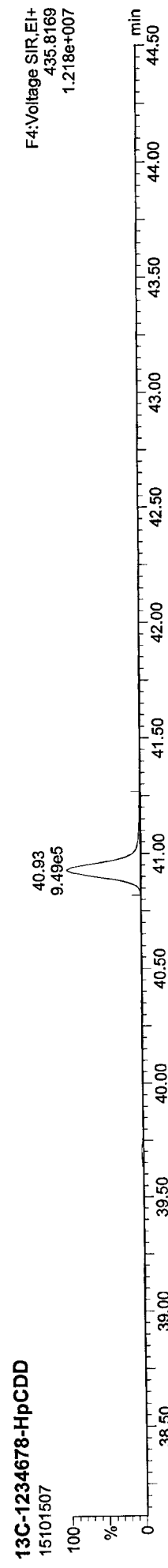


FUNCTION3 OGDPE



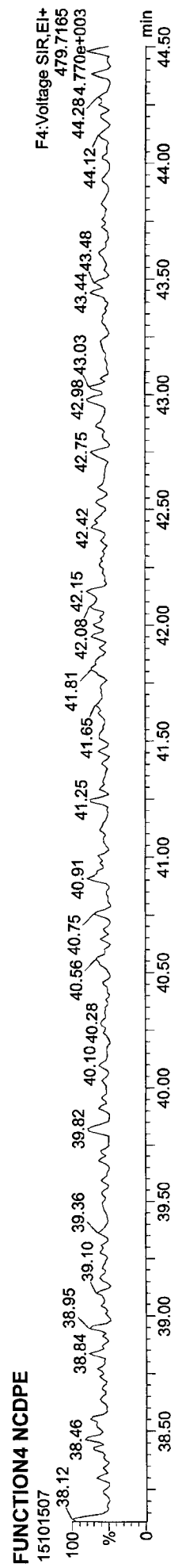
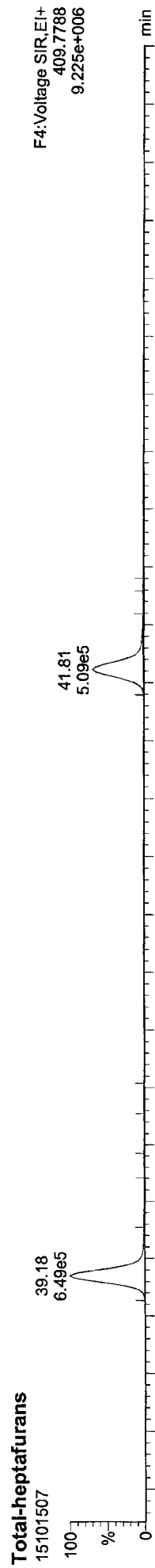
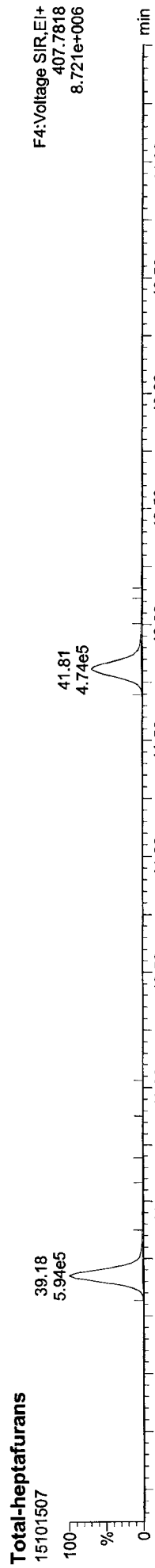
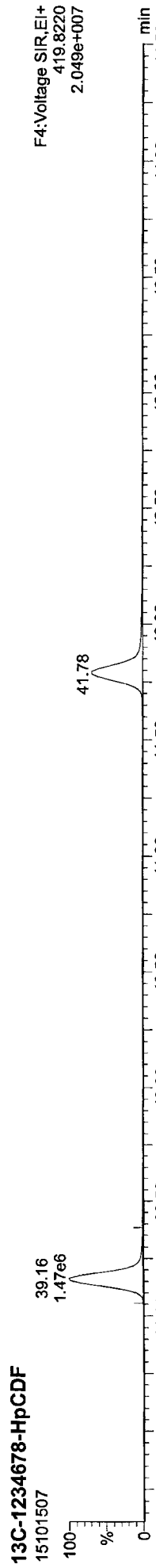
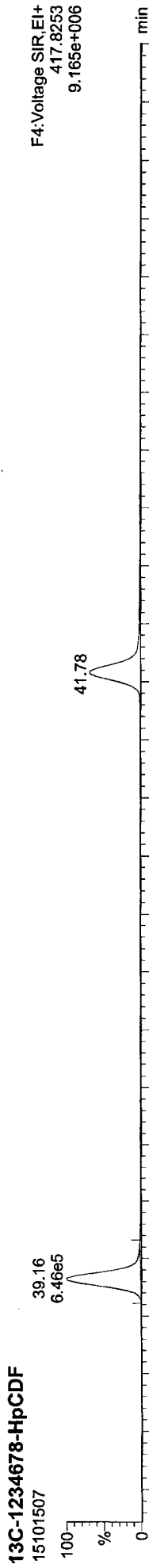
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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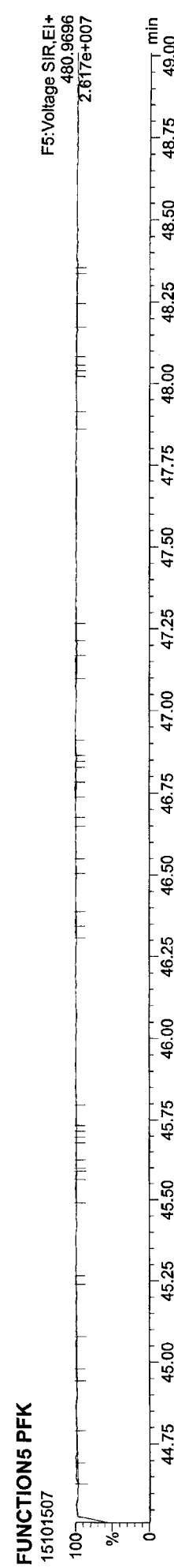
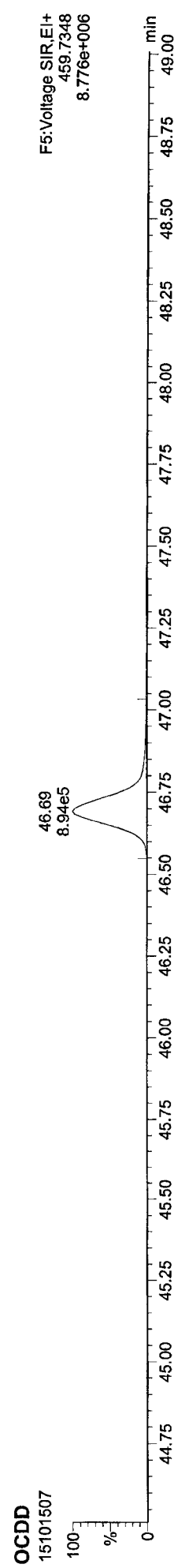
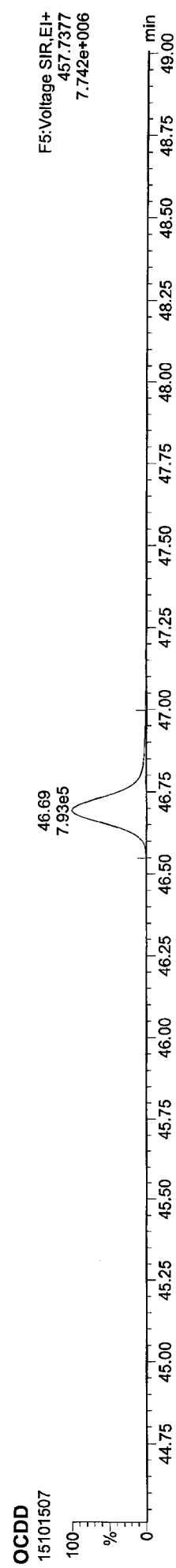
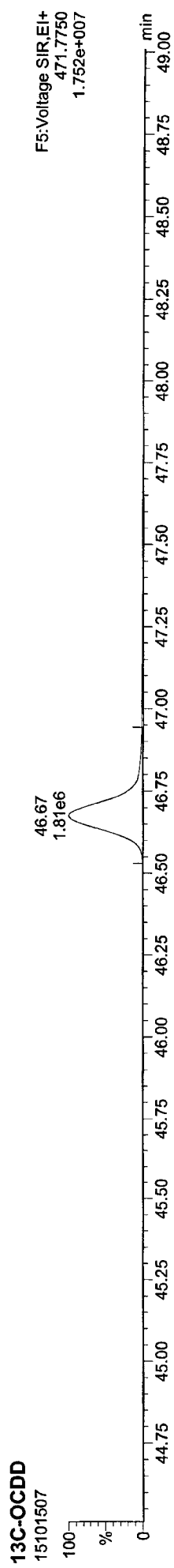
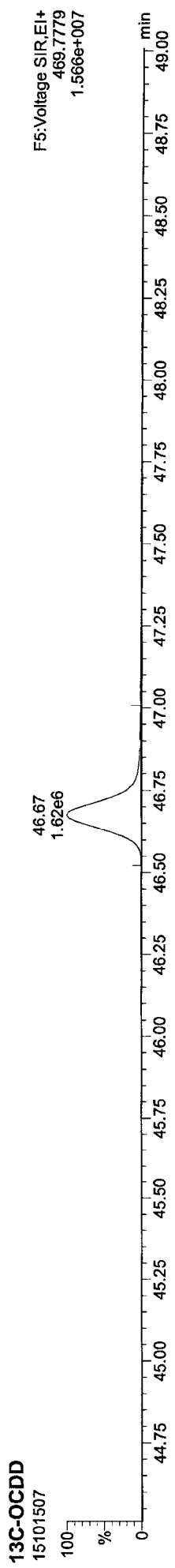
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Quantify Sample Report MassLynx V4.1 SCN909

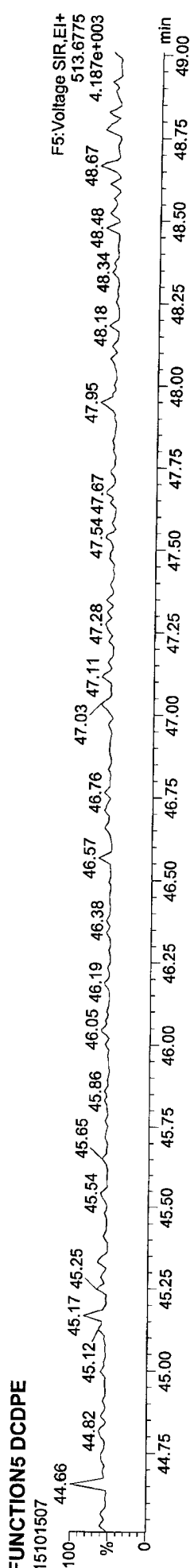
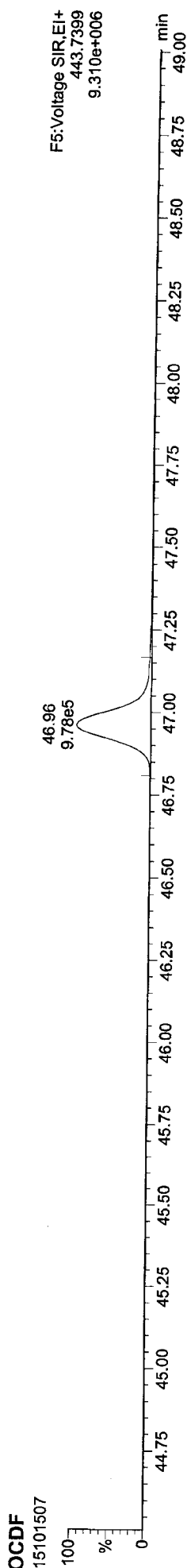
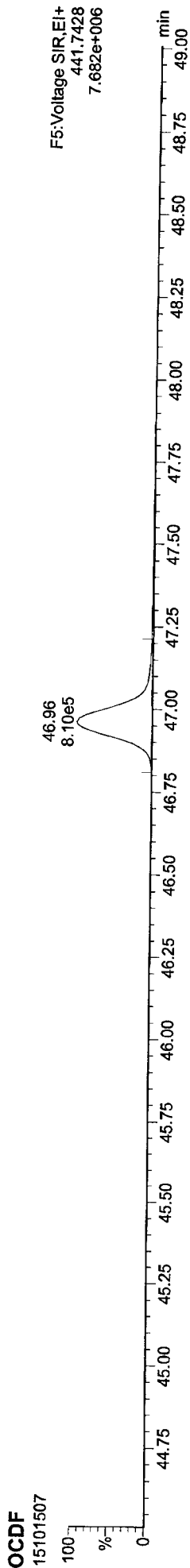
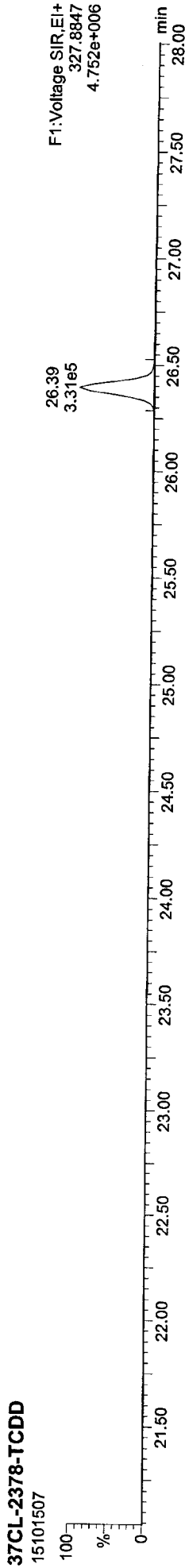
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Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
 Dataset: P:\DIOXIN8290.PRO\1510151C.qld
 Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
 Printed: Friday, October 16, 2015 09:50:01 Pacific Daylight Time

ID: CS3, Name: 15101507, Date: 15-Oct-2015, Time: 17:45:44, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:50:03 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1510153SN.mdb 15 Oct 2015 16:11:27

Calibration: P:\DIOXIN8290.PRO\CurveDB\1510151CAL.cdb 16 Oct 2015 09:47:27

ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	PredR	Noise1	Noise2	Height1	Height2	SN	EMPC?	EMPC	pg
2378-TCDF	25.735	1.001	4.97e5	7.43e5	0.827	0.668	0.770	1123	1359	6.87e6	1.02e7	6112.1	NO	41.111	41.111
12378-PeCDF	29.869	1.000	2.92e6	2.05e6	0.824	1.428	1.550	3249	3383	4.12e7	2.88e7	12689.7	NO	207.004	207.004
23478-PeCDF	31.206	1.000	2.86e6	2.02e6	0.850	1.412	1.550	3249	3383	4.06e7	2.90e7	12497.4	NO	205.103	205.103
123478-HxCDF	34.878	1.001	2.24e6	1.99e6	0.973	1.121	1.240	4216	4631	3.21e7	2.87e7	7624.3	NO	204.181	204.181
234678-HxCDF	35.963	1.000	2.25e6	2.00e6	1.025	1.128	1.240	4216	4631	3.19e7	2.83e7	7565.1	NO	209.149	209.149
123678-HxCDF	35.020	1.000	2.41e6	2.14e6	0.953	1.127	1.240	4216	4631	3.30e7	2.95e7	7820.4	NO	210.494	210.494
123789-HxCDF	37.114	1.001	1.92e6	1.71e6	0.956	1.124	1.240	4216	4631	2.57e7	2.30e7	6098.1	NO	194.774	194.774
1234678-HpCDF	39.164	1.000	1.95e6	2.09e6	1.153	0.936	1.050	4135	3642	2.80e7	3.00e7	6762.6	NO	203.265	203.265
1234789-HpCDF	41.794	1.000	1.60e6	1.66e6	1.131	0.969	1.050	4135	3642	1.91e7	2.02e7	4616.7	NO	209.362	209.362
OCDF	46.951	1.006	2.90e6	3.51e6	1.023	0.827	0.890	2913	2843	2.75e7	3.31e7	9452.7	NO	438.434	438.434
2378-TCDD	26.377	1.001	4.40e5	5.66e5	1.023	0.776	0.770	1356	1109	6.16e6	7.82e6	4544.7	NO	39.514	39.514
12378-PeCDD	31.469	1.001	2.24e6	1.45e6	0.939	1.545	1.550	2031	1389	3.16e7	2.04e7	15551.3	NO	207.432	207.432
123478-HxCDD	36.105	1.001	1.94e6	1.57e6	0.963	1.236	1.240	2770	3087	2.79e7	2.24e7	10054.8	NO	207.948	207.948
123678-HxCDD	36.237	1.001	1.93e6	1.58e6	0.894	1.224	1.240	2770	3087	2.69e7	2.18e7	9710.0	NO	205.453	205.453
123789-HxCDD	36.653	1.012	1.85e6	1.48e6	0.900	1.246	1.240	2770	3087	2.53e7	2.03e7	9143.2	NO	202.511	202.511
1234678-HpCDD	40.939	1.000	1.50e6	1.45e6	0.964	1.031	1.050	2609	2291	1.94e7	1.87e7	7417.1	NO	207.392	207.392
OCDD	46.682	1.000	2.59e6	3.02e6	0.969	0.857	0.890	2866	3171	2.63e7	2.98e7	9161.3	NO	405.395	405.395
13C-2378-TCDF	25.720	1.006	1.59e6	2.06e6	1.502	0.772	0.770	5235	2968	2.20e7	2.83e7	4210.6	NO	95.964	95.964
13C-12378-PeCDF	29.858	1.168	1.80e6	1.12e6	1.215	1.607	1.550	4176	2382	2.44e7	1.57e7	5842.7	NO	94.801	94.801
13C-23478-PeCDF	31.195	1.221	1.71e6	1.09e6	1.181	1.570	1.550	4176	2382	2.35e7	1.50e7	5636.5	NO	93.696	93.696
13C-123478-HxCDF	34.856	0.951	7.16e5	1.41e6	1.246	0.507	0.510	2592	3718	1.01e7	1.99e7	3888.3	NO	98.681	98.681
13C-123678-HxCDF	35.009	0.955	7.75e5	1.50e6	1.375	0.518	0.510	2592	3718	1.07e7	2.06e7	4137.3	NO	95.336	95.336
13C-234678-HxCDF	35.952	0.981	6.77e5	1.30e6	1.186	0.519	0.510	2592	3718	9.45e6	1.79e7	3646.4	NO	96.416	96.416
13C-123789-HxCDF	37.092	1.012	6.62e5	1.29e6	1.135	0.514	0.510	2592	3718	8.97e6	1.74e7	3459.1	NO	99.237	99.237
13C-1234678-HpCDF	39.153	1.069	5.37e5	1.18e6	1.020	0.453	0.440	2382	3645	7.34e6	1.66e7	3082.0	NO	97.411	97.411
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13C-2378-TCDD	26.362	1.032	1.09e6	1.40e6	0.983	0.783	0.770	2614	1198	1.52e7	1.94e7	5807.8	NO	100.005	100.005
13C-12378-PeCDD	31.447	1.230	1.16e6	7.28e5	0.787	1.598	1.550	1517	1086	1.63e7	1.03e7	10730.7	NO	94.917	94.917
13C-123478-HxCDD	36.083	0.985	9.77e5	7.75e5	1.031	1.260	1.240	3305	1270	1.39e7	1.11e7	4201.9	NO	98.104	98.104
13C-123678-HxCDD	36.215	0.988	1.06e6	8.47e5	1.137	1.253	1.240	3305	1270	1.48e7	1.19e7	4483.3	NO	96.898	96.898
13C-1234678-HpCDD	40.917	1.117	7.57e5	7.22e5	0.892	1.048	1.050	1582	2146	9.78e6	9.34e6	6180.4	NO	95.658	95.658
13C-OCDD	46.664	1.273	1.35e6	1.52e6	0.852	0.887	0.890	2641	2462	1.32e7	1.47e7	4995.2	NO	193.888	193.888

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qid

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:50:03 Pacific Daylight Time

ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk

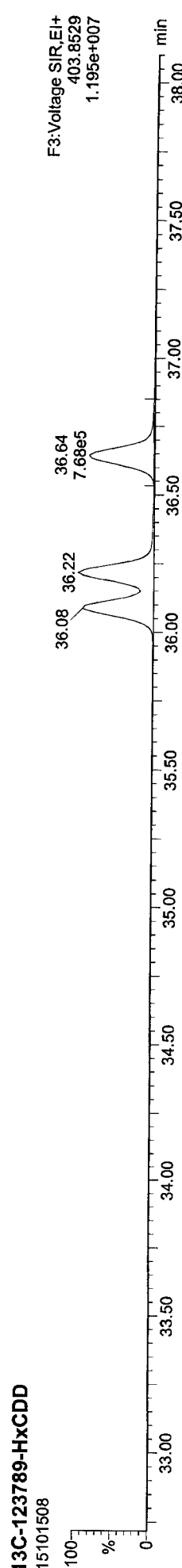
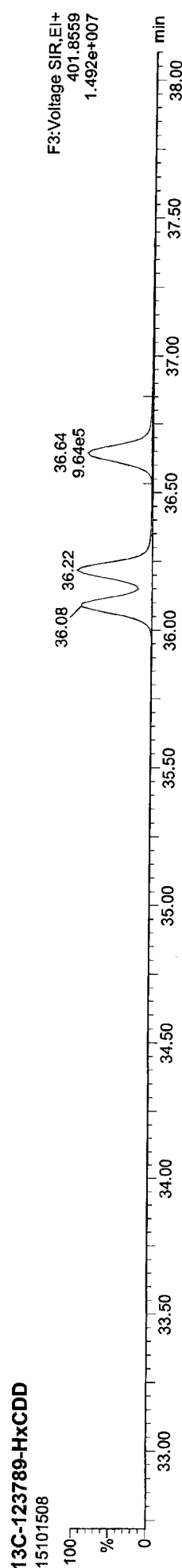
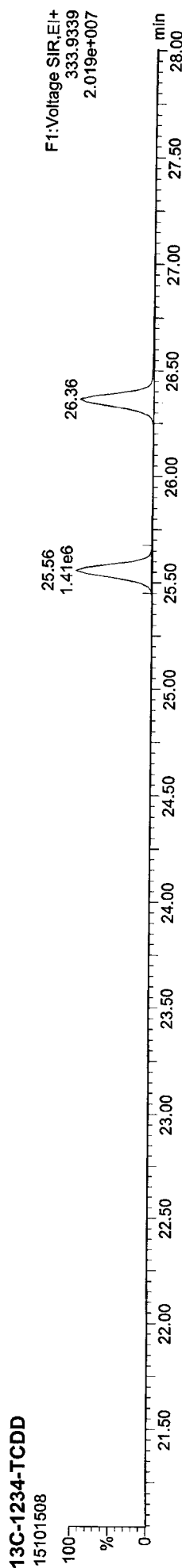
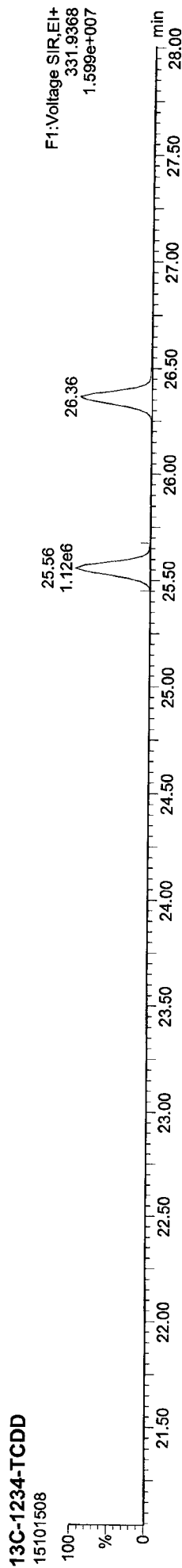
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13C-123789-HxCDD	36.643	0.000	9.64e5	7.68e5	1.000	1.255	1.240	3305	1270	1.29e7	1.03e7	3889.3	NO		100.000
Total-tetrafurans			5.05e5		0.827			1123		6.99e6					41.805
Total-penta1			2.08e2					533		3.31e3					0.016
Total-pentafurans			5.91e6		0.837			3249		8.35e7					421.701
Total-hexafurans			8.83e6		0.977			4216		1.23e8					819.301
Total-heptafurans			3.56e6		1.142			4135		4.71e7					412.886
Total-Furans			2.17e7		0.971			1123		2.88e8					2134.144
Total-tetradioxins			4.51e5		1.023			1356		6.29e6					40.609
Total-pentadioxins			2.24e6		0.939			2031		3.17e7					207.918
Total-hexadioxins			5.72e6		0.919			2770		8.01e7					615.939
Total-heptadioxins			1.51e6		0.964			2609		1.94e7					208.239
Total-Dioxins			1.25e7		0.950			1356		1.64e8					1478.112
Total-TEQ			3.42e7					1356		4.52e8					3612.256
37CL-2378-TCDD	26.377	1.032	1.10e6		1.091			1545		1.52e7		9828.2			39.722
FUNCTION1 PFK			1.59e6					560264		2.50e7					0.000
FUNCTION2 PFK			1.60e5					128870		4.73e6					0.000
FUNCTION3 PFK			2.32e7					462327		1.82e8					0.000
FUNCTION4 PFK			1.98e5					264875		5.72e6					0.000
FUNCTION5 PFK			0.00e0					245762		0.00e0					0.000
FUNCTION1 HXCDE			1.99e2					407		3.45e3					0.000
FUNCTION1 HPCDE			2.47e2					631		5.42e3					0.000
FUNCTION2 HPCDE			5.39e3					741		7.76e4					0.000
FUNCTION3 OCDPE			0.00e0					322		0.00e0					0.000
FUNCTION4 NCDPE			0.00e0					558		0.00e0					0.000
FUNCTION5 DCDPE			0.00e0					346		0.00e0					0.000

Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:03 Pacific Daylight Time

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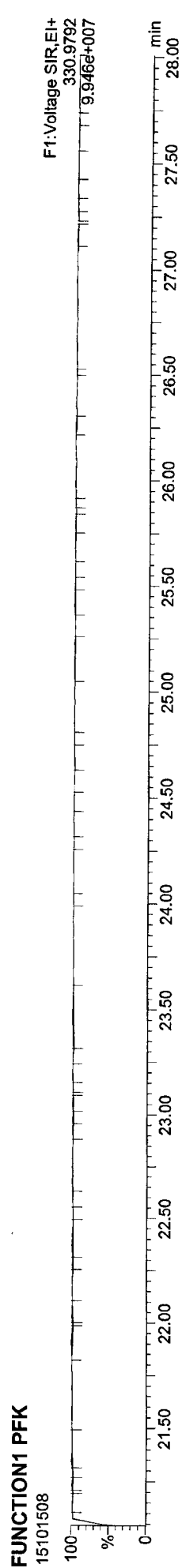
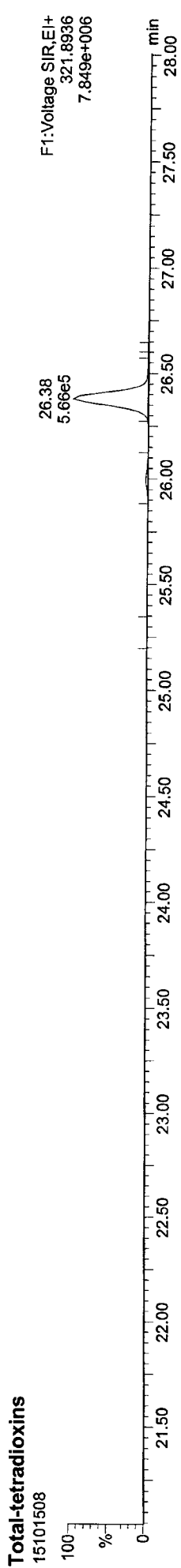
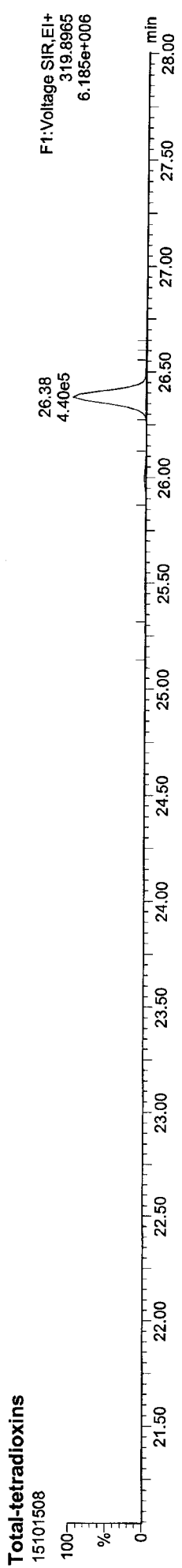
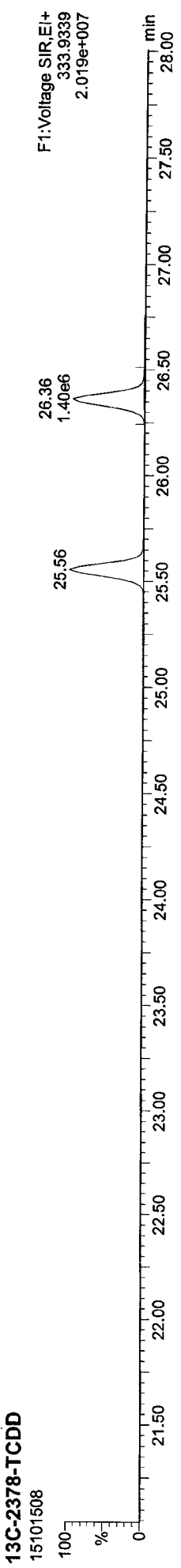
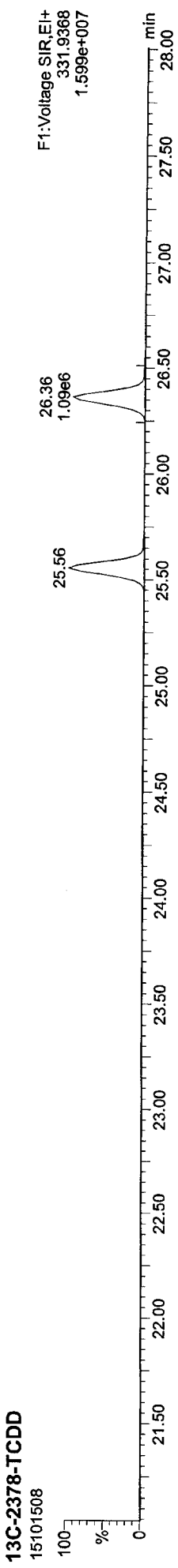
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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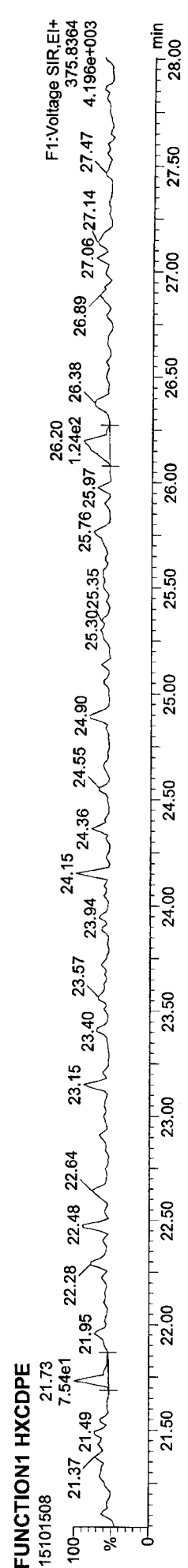
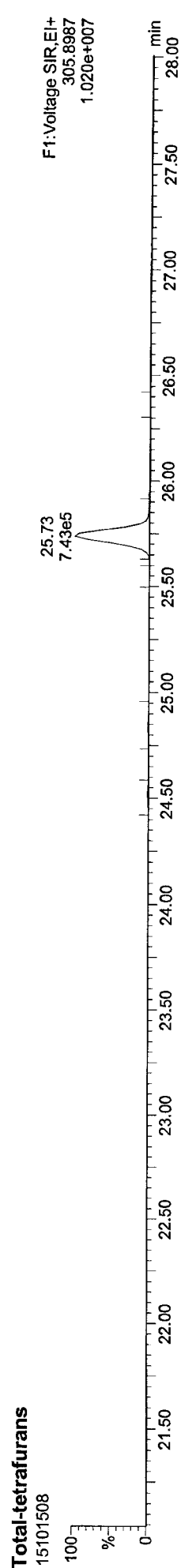
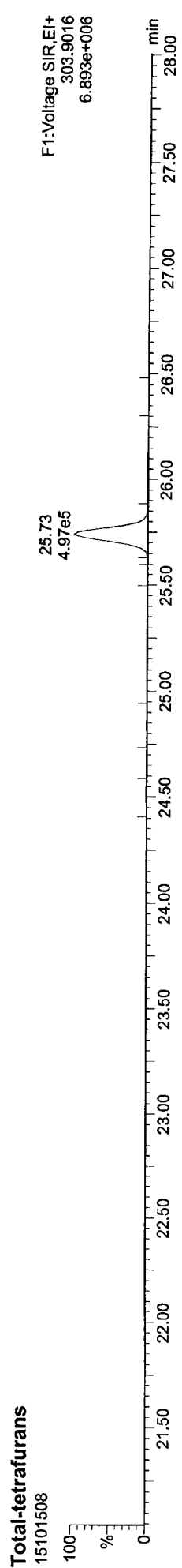
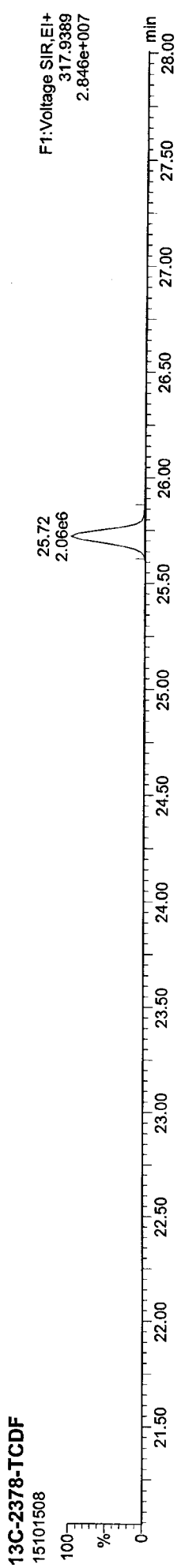
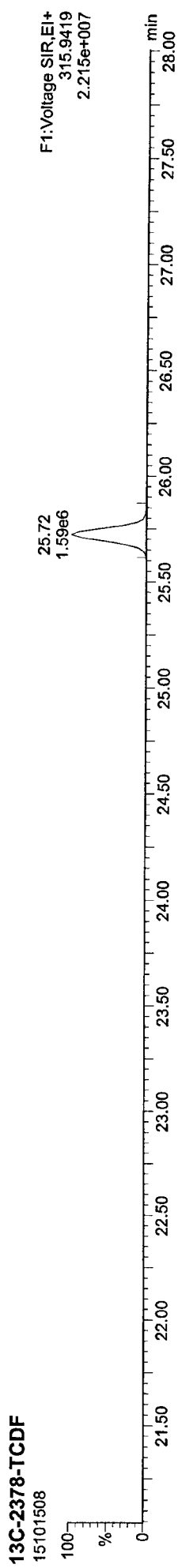
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

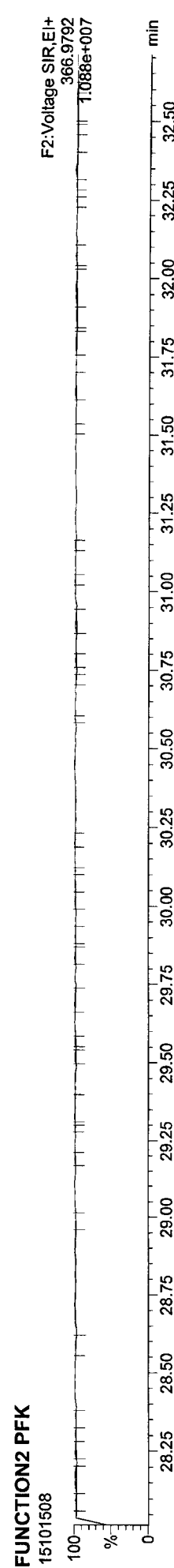
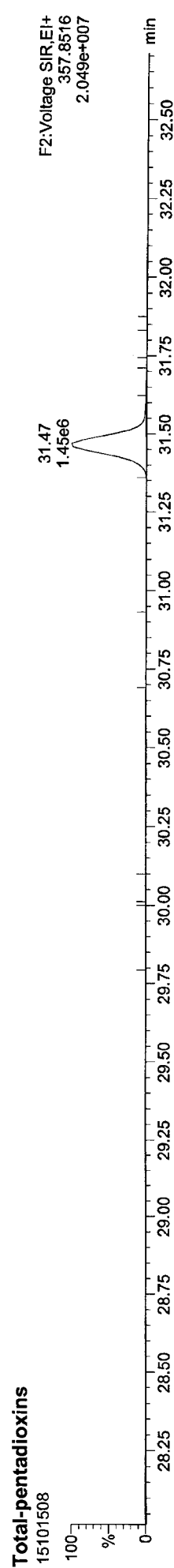
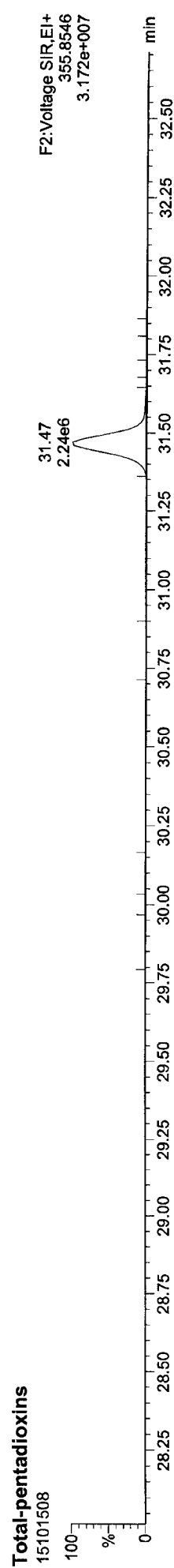
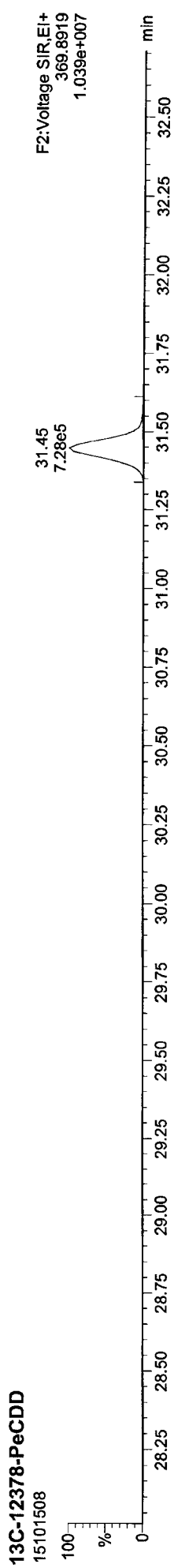
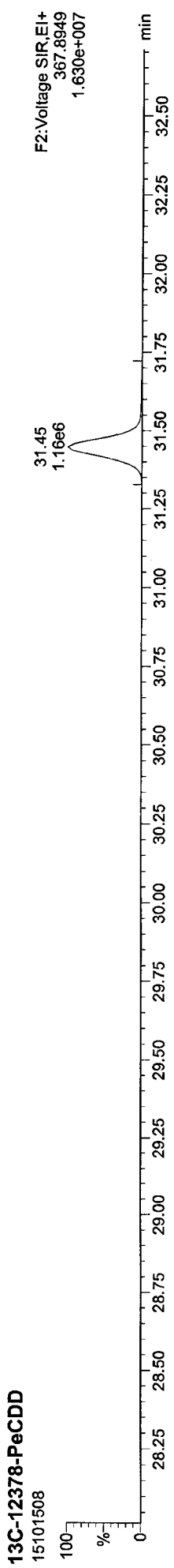
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ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk



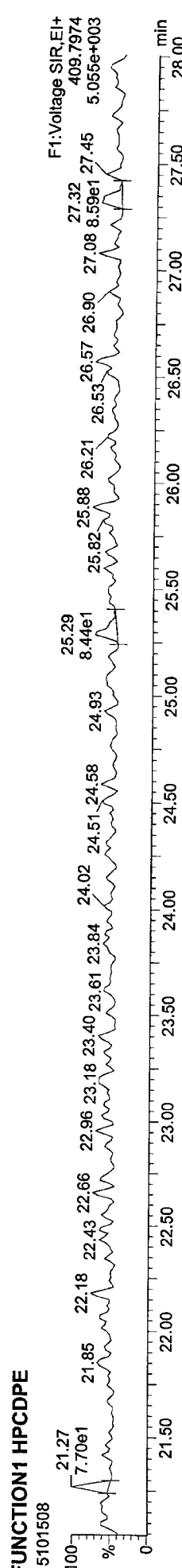
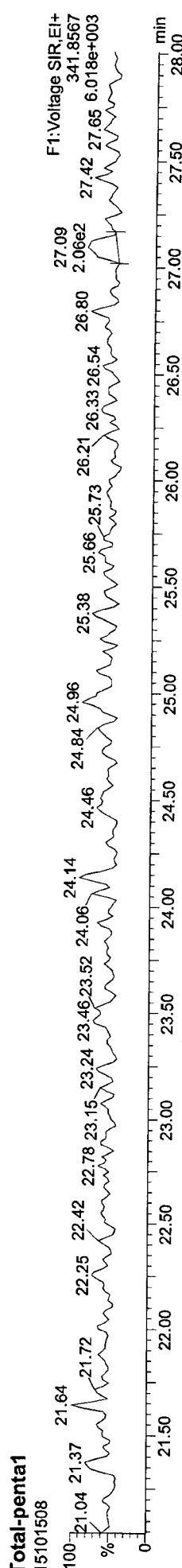
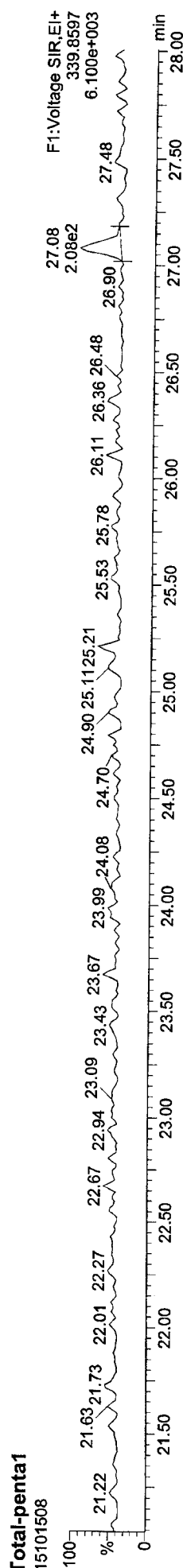
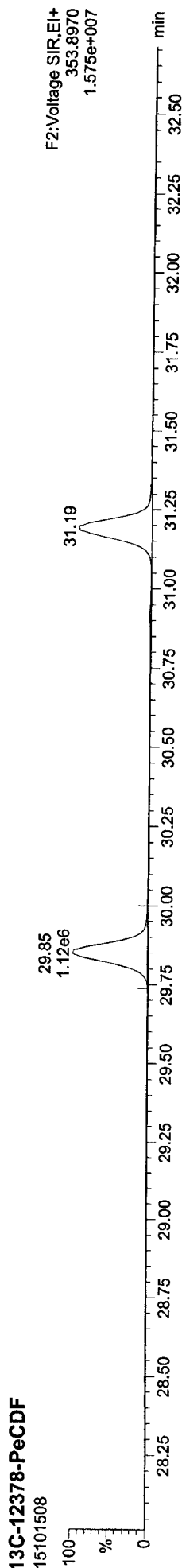
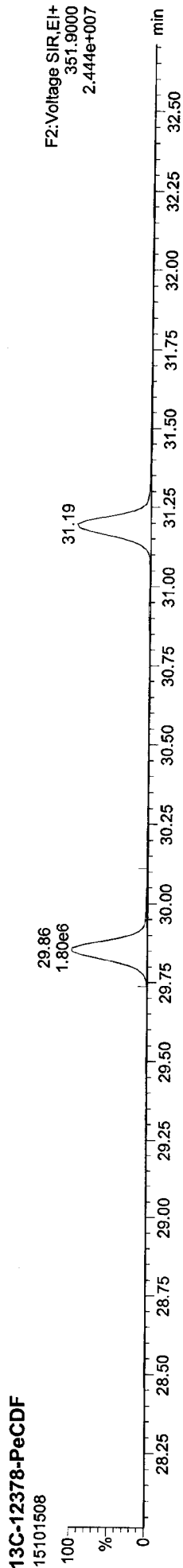
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report
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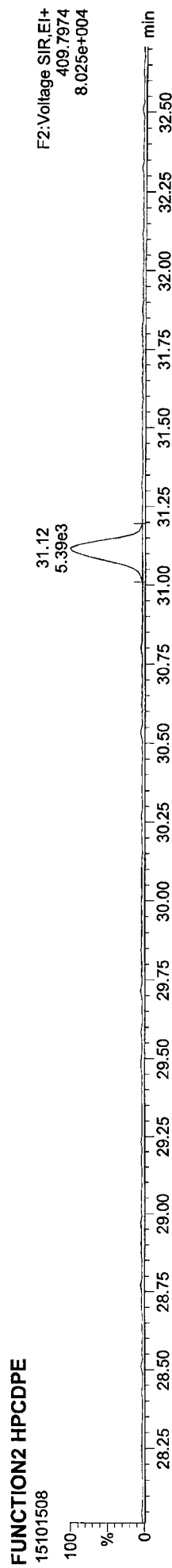
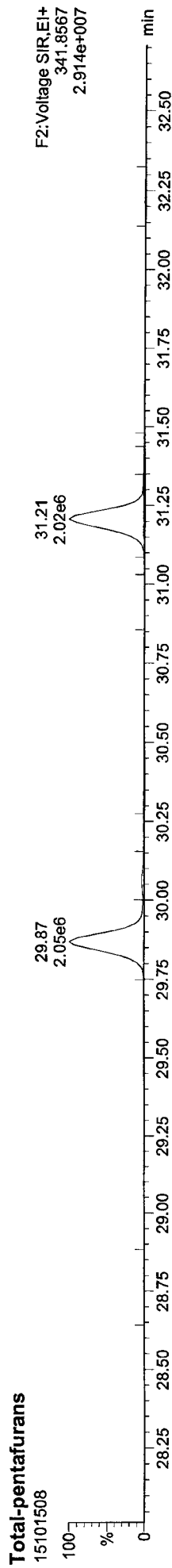
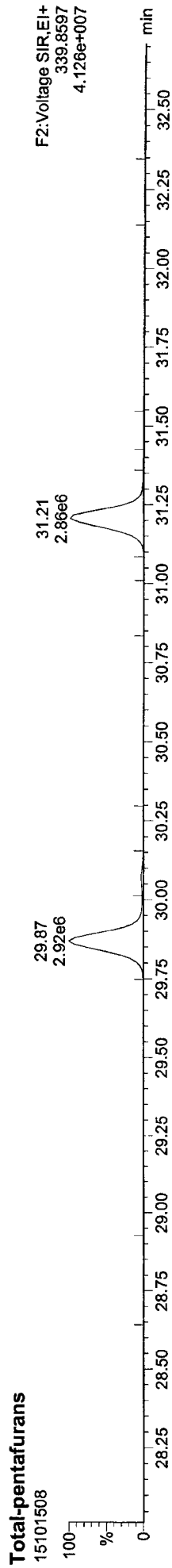
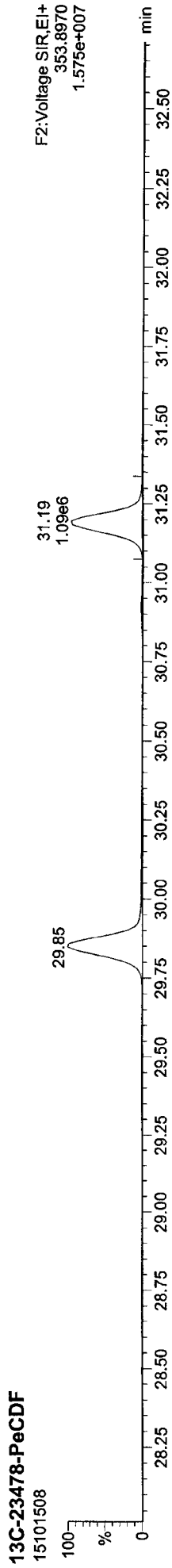
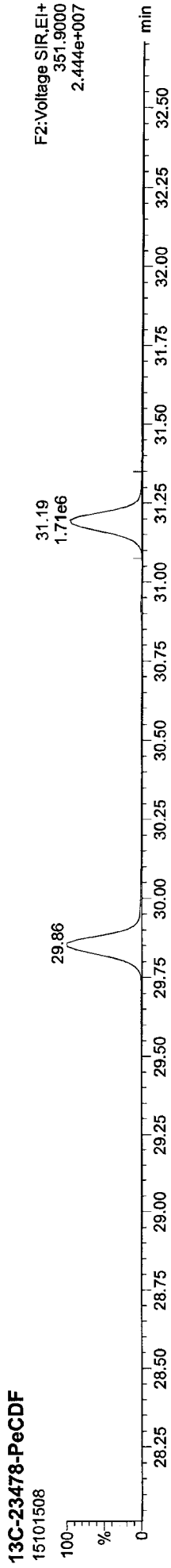
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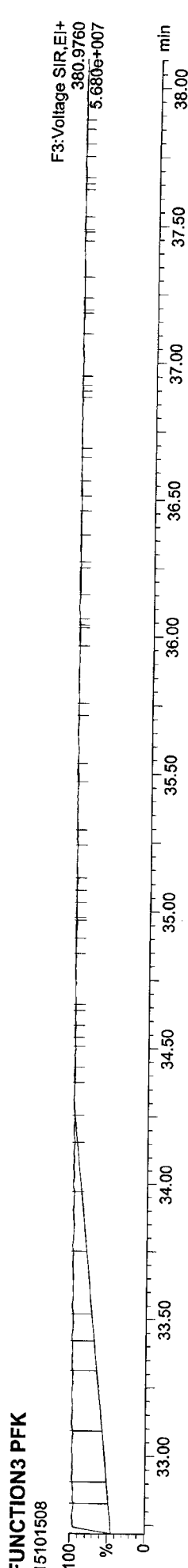
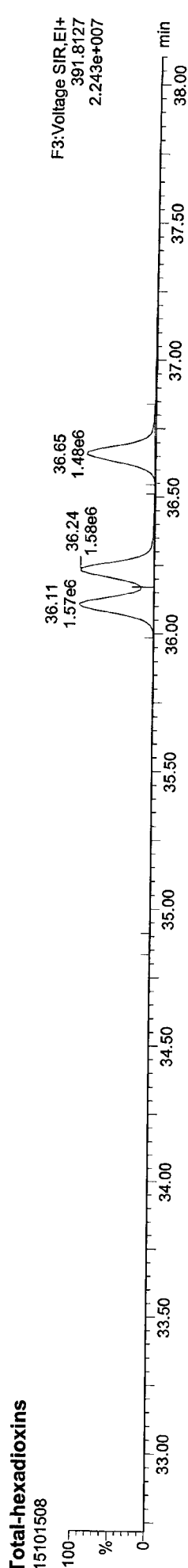
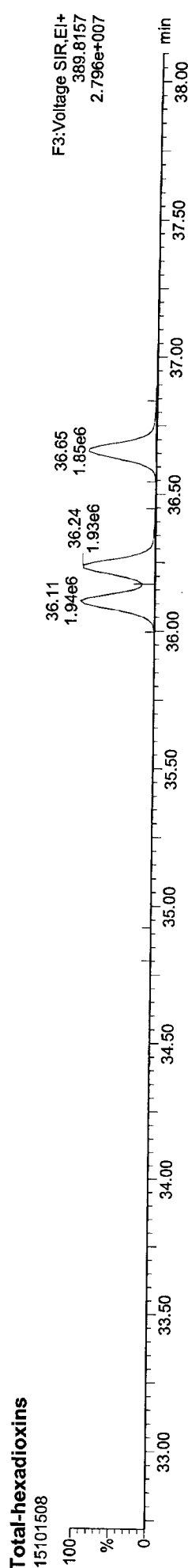
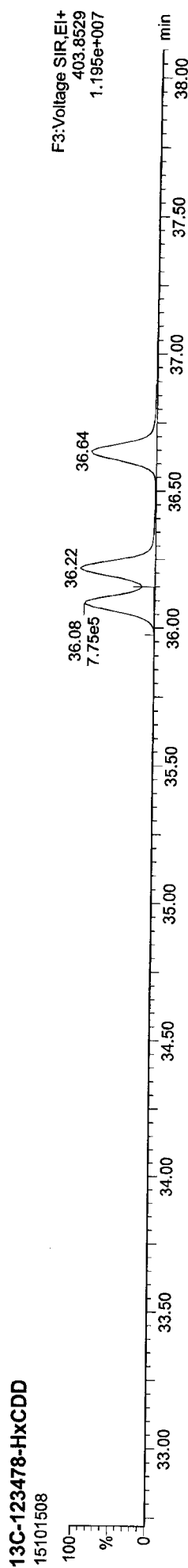
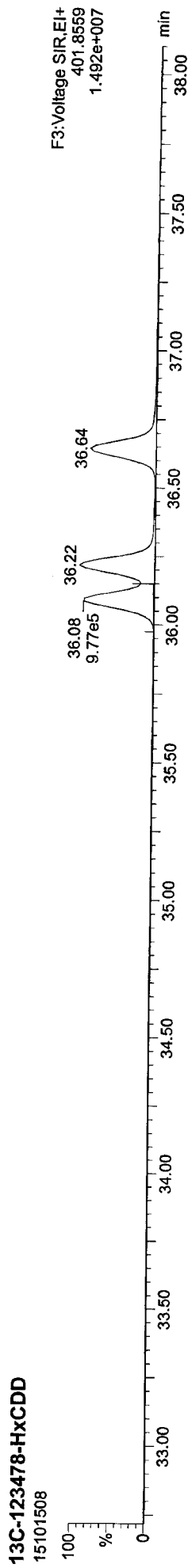
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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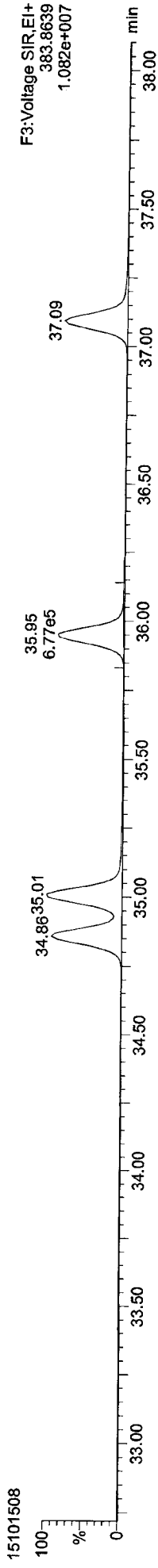


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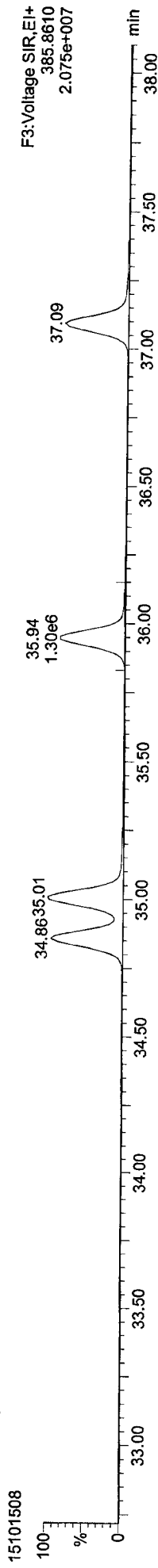


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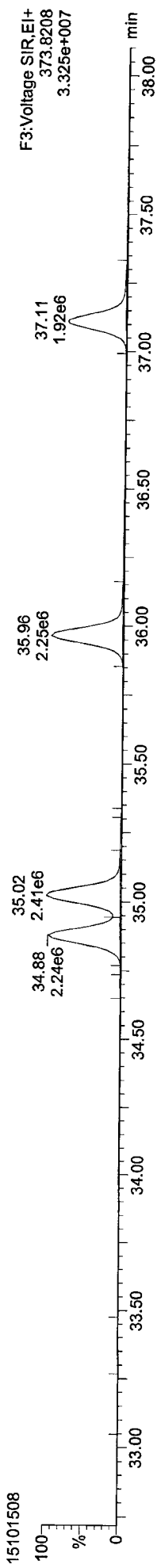
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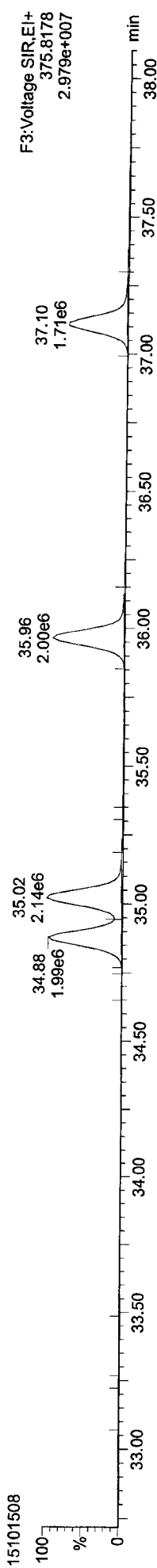
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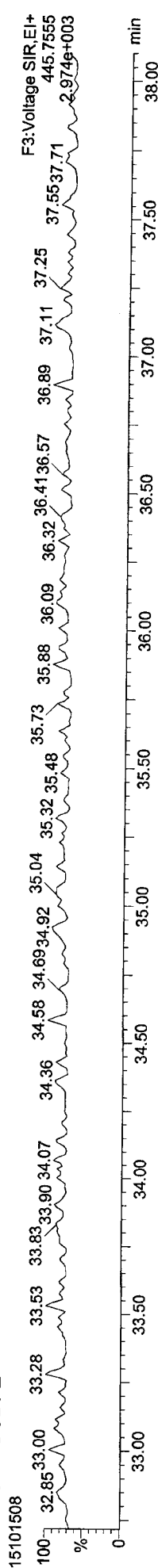
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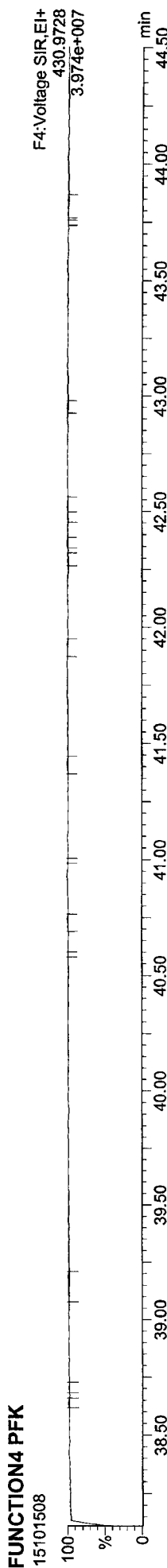
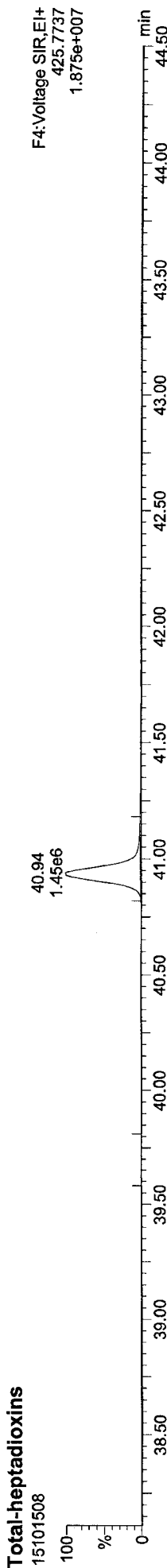
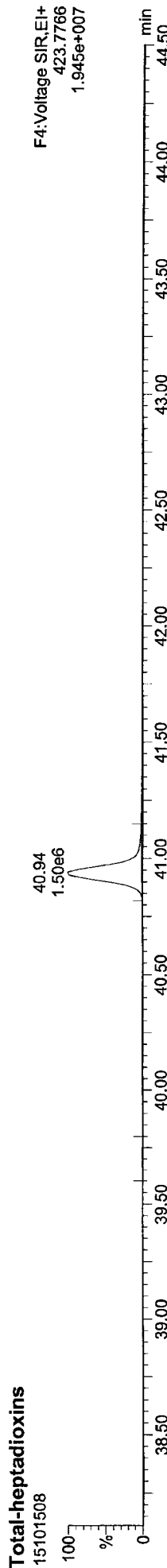
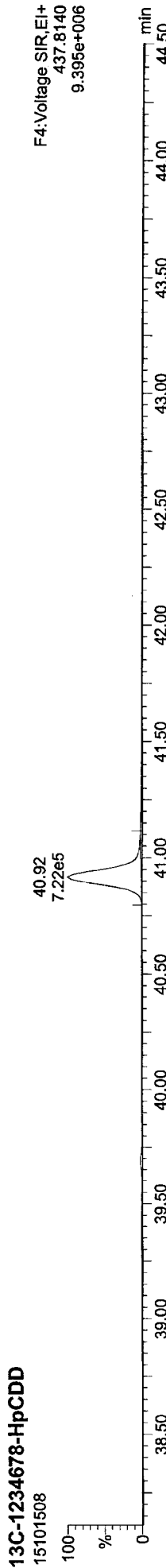
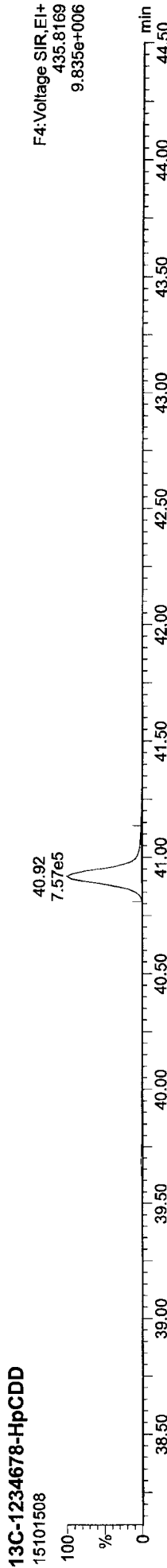
FUNCTION3 OCDFE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:03 Pacific Daylight Time

ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1510151C.qld

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ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk

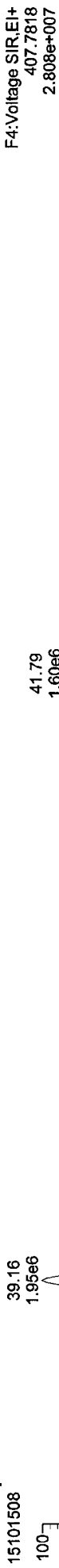
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13C-1234678-HpCDF



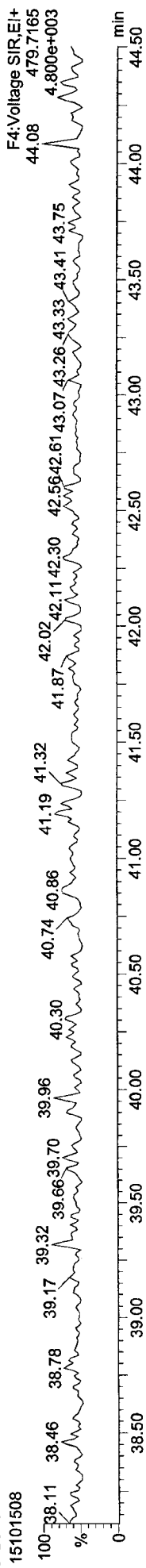
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Total-heptafurans

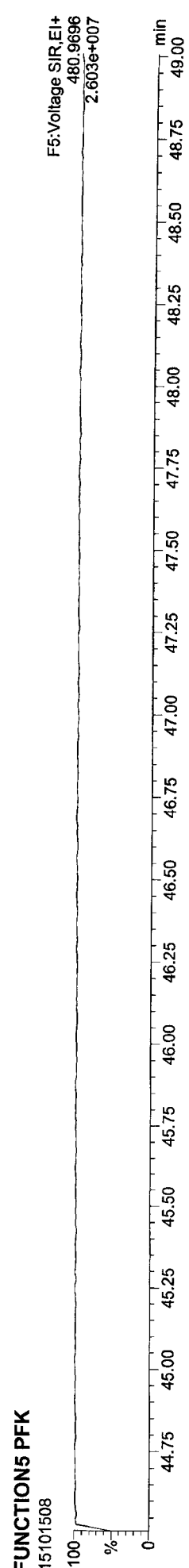
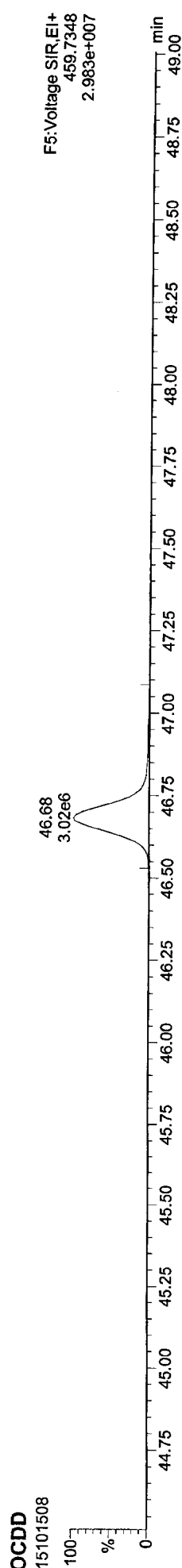
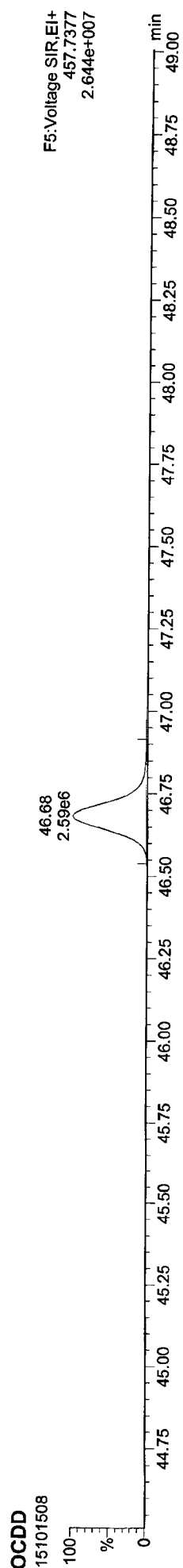
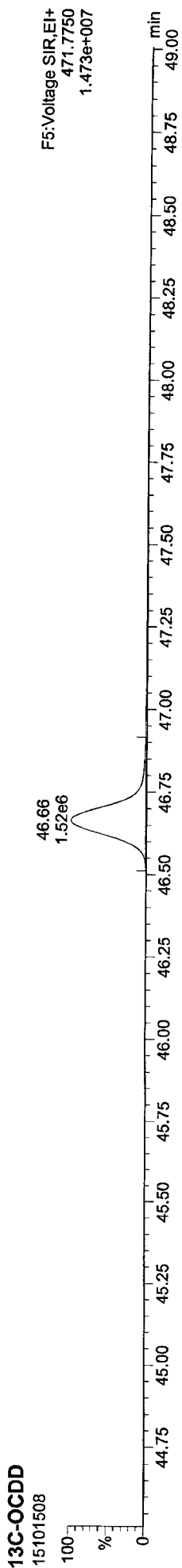
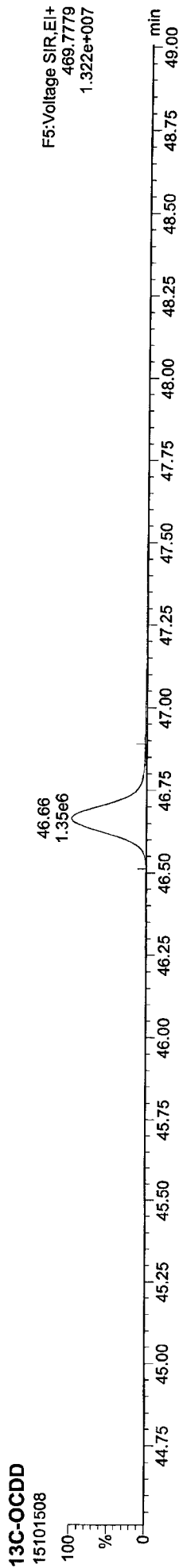


FUNCTION4 NCDPE



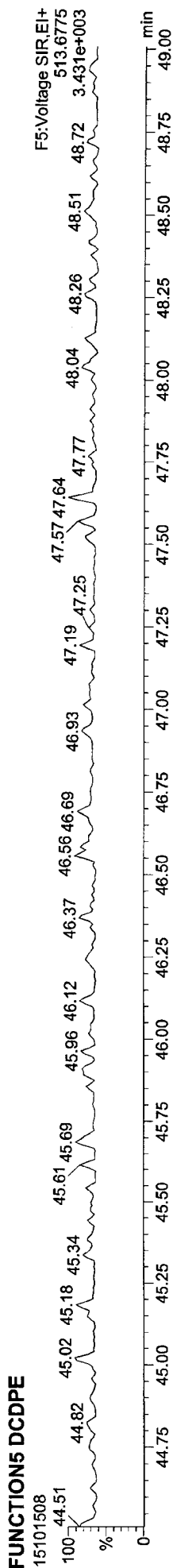
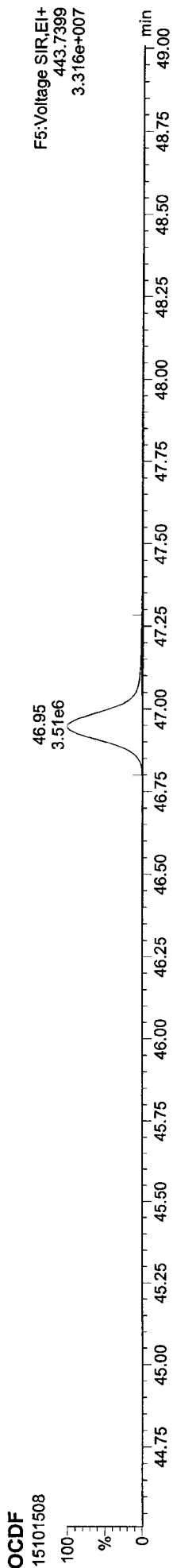
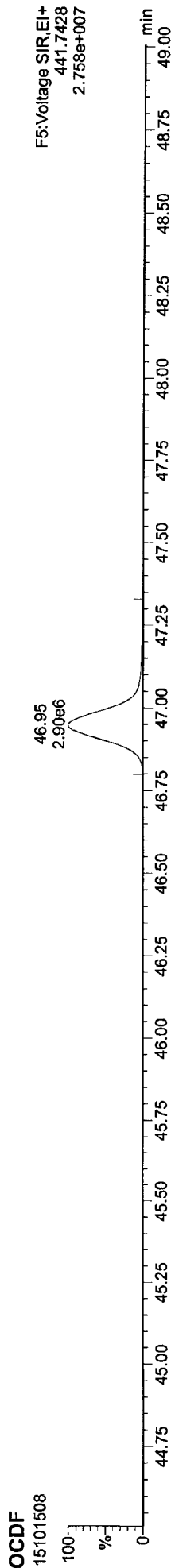
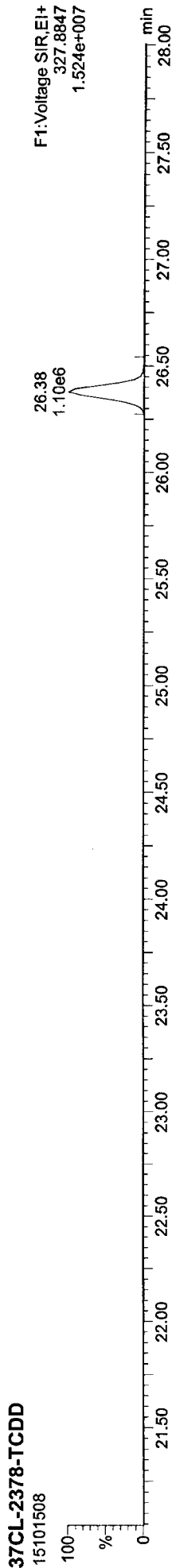
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report
Dataset: P:\D\JOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:03 Pacific Daylight Time

ID: CS4, Name: 15101508, Date: 15-Oct-2015, Time: 18:38:36, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\151015IC.qld

Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1510153N.mdb 15 Oct 2015 16:11:27
 Calibration: P:\DIOXIN8290.PRO\CurveDB\151015ICAL.cdb 16 Oct 2015 09:47:27

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC7	EMPC	pg
2378-TCDF	25.735	1.001	2.34e6	3.45e6	0.827	0.677	0.770	2243	2134	3.35e7	4.99e7	14955.2	NO	207.161	207.161
12378-PeCDF	29.869	1.001	1.51e7	1.07e7	0.824	1.420	1.550	5698	9562	2.23e8	1.56e8	39215.1	NO	1063.525	1063.525
23478-PeCDF	31.206	1.000	1.53e7	1.08e7	0.850	1.413	1.550	5698	9562	2.26e8	1.60e8	39723.3	NO	1048.477	1048.477
123478-HxCDF	34.878	1.001	1.21e7	1.07e7	0.973	1.128	1.240	7790	3755	1.79e8	1.59e8	22958.8	NO	1049.849	1049.849
234678-HxCDF	35.963	1.000	1.21e7	1.08e7	1.025	1.121	1.240	7790	3755	1.83e8	1.63e8	23495.2	NO	1062.833	1062.833
123678-HxCDF	35.021	1.000	1.29e7	1.14e7	0.953	1.127	1.240	7790	3755	1.86e8	1.66e8	23887.8	NO	1033.225	1033.225
123789-HxCDF	37.114	1.001	1.06e7	9.30e6	0.956	1.140	1.240	7790	3755	1.50e8	1.32e8	19229.1	NO	1056.182	1056.182
1234678-HpCDF	39.164	1.000	1.05e7	1.11e7	1.153	0.945	1.050	6039	6934	1.58e8	1.67e8	26196.8	NO	1050.487	1050.487
1234789-HpCDF	41.794	1.000	8.63e6	9.10e6	1.131	0.948	1.050	6039	6934	1.11e8	1.18e8	18418.3	NO	1076.291	1076.291
OCDF	46.960	1.006	1.55e7	1.86e7	1.023	0.832	0.890	3422	5931	1.62e8	1.94e8	47403.0	NO	2163.404	2163.404
2378-TCDD	26.377	1.001	2.14e6	2.75e6	1.023	0.776	0.770	1319	1882	3.08e7	3.95e7	23376.7	NO	218.215	218.215
12378-PeCDD	31.469	1.001	1.16e7	7.48e6	0.939	1.553	1.550	2231	1973	1.73e8	1.11e8	77524.3	NO	1025.445	1025.445
123478-HxCDD	36.105	1.001	1.05e7	8.44e6	0.963	1.246	1.240	3761	4440	1.56e8	1.25e8	41392.7	NO	1051.354	1051.354
123678-HxCDD	36.237	1.001	1.03e7	8.31e6	0.894	1.245	1.240	3761	4440	1.53e8	1.22e8	40697.3	NO	1038.659	1038.659
123789-HxCDD	36.653	1.012	1.02e7	8.21e6	0.900	1.239	1.240	3761	4440	1.51e8	1.22e8	40138.9	NO	1052.621	1052.621
1234678-HpCDD	40.939	1.000	8.12e6	7.81e6	0.964	1.040	1.050	5466	5139	1.08e8	1.04e8	19841.7	NO	1047.702	1047.702
OCDD	46.691	1.000	1.48e7	1.69e7	0.969	0.877	0.890	4932	3988	1.56e8	1.75e8	31604.8	NO	2118.899	2118.899
13C-2378-TCDF	25.720	1.006	1.48e6	1.90e6	1.502	0.777	0.770	3887	2445	2.13e7	2.75e7	5485.7	NO	101.519	101.519
13C-12378-PeCDF	29.847	1.168	1.80e6	1.14e6	1.215	1.573	1.550	3157	2186	2.59e7	1.65e7	8213.2	NO	109.232	109.232
13C-23478-PeCDF	31.195	1.221	1.79e6	1.14e6	1.181	1.575	1.550	3157	2186	2.58e7	1.65e7	8174.2	NO	111.780	111.780
13C-123478-HxCDF	34.856	0.951	7.53e5	1.47e6	1.246	0.512	0.510	4180	2958	1.10e7	2.16e7	2623.8	NO	99.809	99.809
13C-123678-HxCDF	35.009	0.955	8.39e5	1.63e6	1.375	0.516	0.510	4180	2958	1.20e7	2.32e7	2875.4	NO	100.213	100.213
13C-234678-HxCDF	35.952	0.981	7.27e5	1.38e6	1.186	0.525	0.510	4180	2958	1.05e7	2.04e7	2515.2	NO	99.339	99.339
13C-123789-HxCDF	37.092	1.012	6.66e5	1.30e6	1.135	0.511	0.510	4180	2958	9.52e6	1.86e7	2277.2	NO	96.996	96.996
13C-1234678-HpCDF	39.153	1.069	5.51e5	1.24e6	1.020	0.446	0.440	1334	2750	8.00e6	1.80e7	5995.9	NO	97.800	97.800
13C-1234789-HpCDF	41.783	1.140	4.50e5	1.01e6	0.824	0.447	0.440	1334	2750	5.56e6	1.25e7	4165.1	NO	98.741	98.741
13C-1234-TCDD	25.555	0.000	9.73e5	1.24e6	1.000	0.783	0.770	2688	2047	1.45e7	1.84e7	5390.8	NO	100.000	100.000
13C-2378-TCDD	26.362	1.032	9.58e5	1.23e6	0.983	0.778	0.770	2688	2047	1.36e7	1.76e7	5075.7	NO	100.616	100.616
13C-12378-PeCDD	31.447	1.231	1.21e6	7.71e5	0.787	1.570	1.550	1261	1057	1.79e7	1.15e7	14210.5	NO	113.657	113.657
13C-123478-HxCDD	36.084	0.985	1.05e6	8.26e5	1.031	1.267	1.240	2835	1283	1.53e7	1.22e7	5400.8	NO	101.416	101.416
13C-123678-HxCDD	36.215	0.988	1.13e6	8.83e5	1.137	1.275	1.240	2835	1283	1.58e7	1.28e7	5586.5	NO	98.763	98.763
13C-1234678-HpCDD	40.917	1.117	8.05e5	7.72e5	0.892	1.042	1.050	1981	1661	1.08e7	1.02e7	5432.1	NO	98.733	98.733
13C-OCDD	46.673	1.274	1.46e6	1.63e6	0.852	0.894	0.890	3038	1938	1.51e7	1.70e7	4979.7	NO	202.484	202.484

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

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ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk

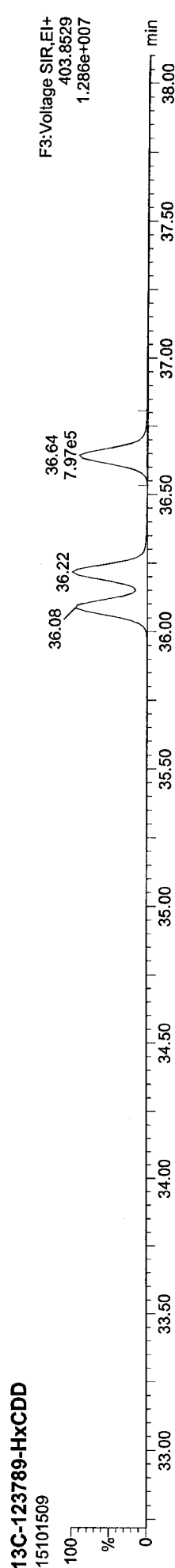
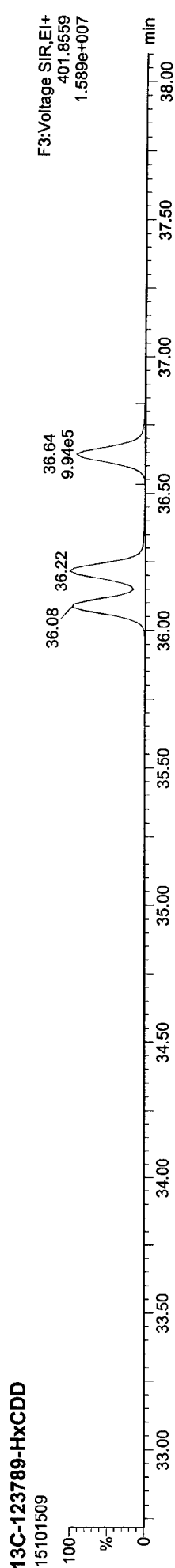
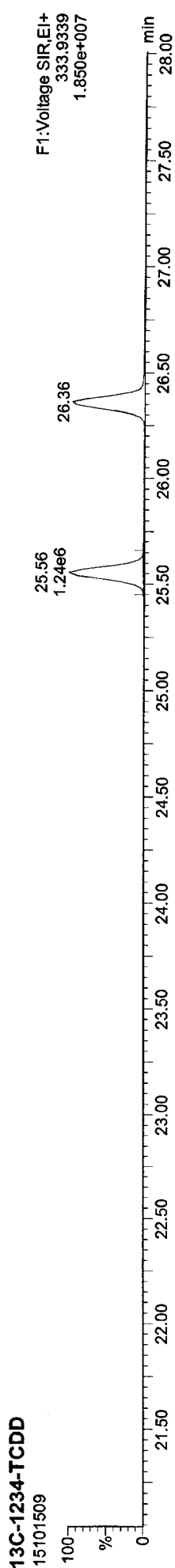
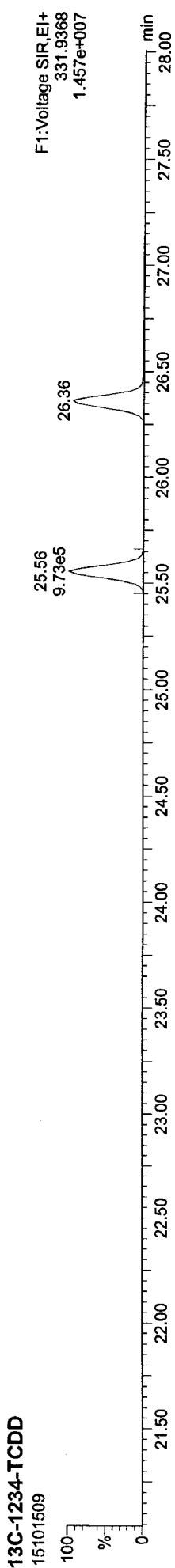
Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	36.643	0.000	9.94e5	7.97e5	1.000	1.247	1.240	2835	1283	1.45e7	1.16e7	5110.4	NO		100.000
Total-tetrafurans			2.38e6		0.827			2243		3.42e7					210.902
Total-penta1			0.00e0					524		0.00e0					
Total-penta1furans			3.11e7		0.837			5698		4.58e8					2158.480
Total-hexa1furans			4.77e7		0.977			7790		6.99e8					4208.001
Total-hepta1furans			1.92e7		1.142			6039		2.70e8					2129.112
Total-Furans			1.16e8		0.971			2243		1.62e9					10869.899
Total-tetra1dioxins			2.19e6		1.023			1319		3.15e7					223.650
Total-penta1dioxins			1.16e7		0.939			2231		1.73e8					1027.656
Total-hexa1dioxins			3.10e7		0.919			3761		4.60e8					3142.816
Total-hepta1dioxins			8.15e6		0.964			5466		1.09e8					1051.375
Total-Dioxins			6.78e7		0.950			1319		9.29e8					7564.447
Total-TEQ			1.84e8					1319		2.55e9					18434.346
37CL-2378-TCDD	26.377	1.032	5.33e6		1.091			1799		7.72e7		42947.9			220.293
FUNCTION1 PFK			1.67e6					475628		3.10e7					
FUNCTION2 PFK			4.61e4					102875		1.29e6					0.000
FUNCTION3 PFK			2.91e7					404520		1.85e8					0.000
FUNCTION4 PFK			9.49e5					304670		2.31e7					
FUNCTION5 PFK			1.44e5					302561		5.12e6					
FUNCTION1 HXCDPE			7.68e1					494		1.71e3					0.000
FUNCTION1 HPCDPE			2.54e2					764		4.06e3					0.000
FUNCTION2 HPCDPE			2.36e4					742		3.56e5					0.000
FUNCTION3 OCDPE			0.00e0					257		0.00e0					
FUNCTION4 NCDPE			0.00e0					582		0.00e0					
FUNCTION5 DCDPE			0.00e0					313		0.00e0					

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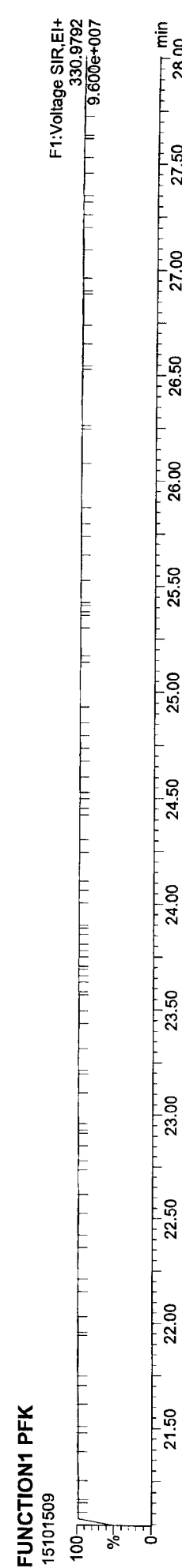
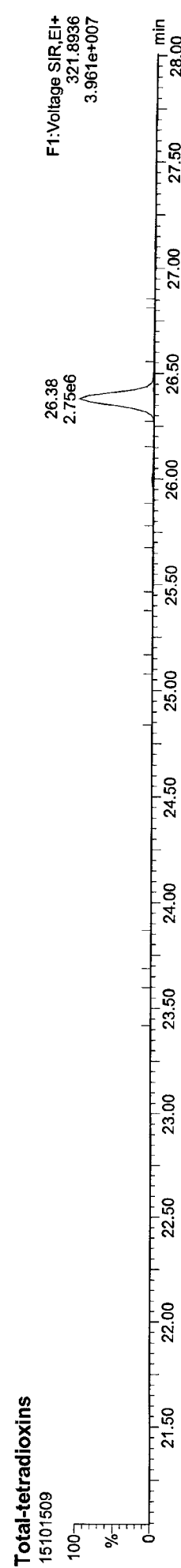
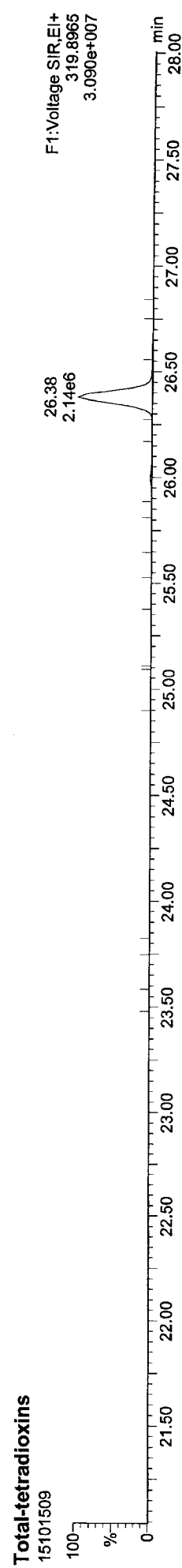
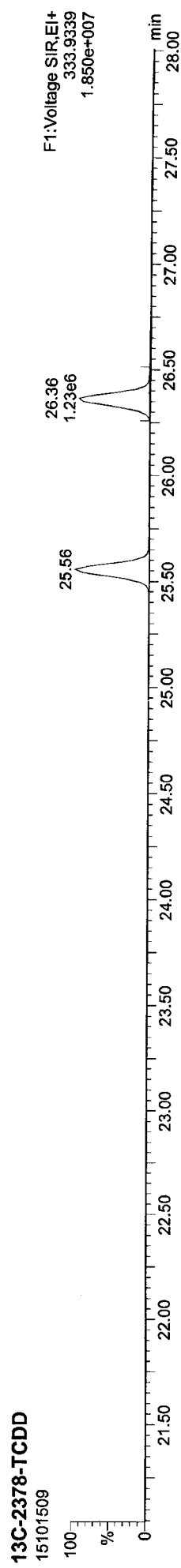
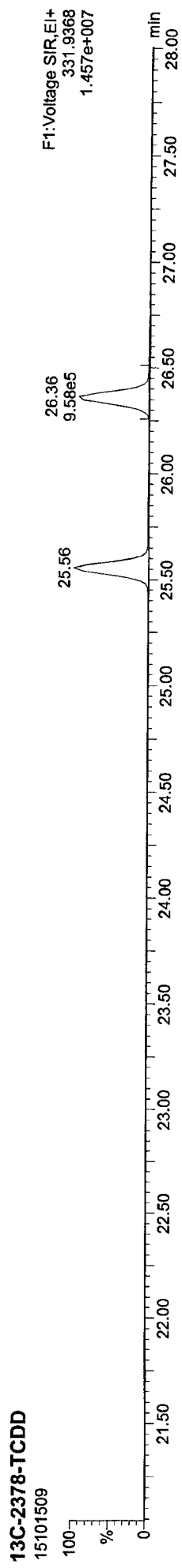
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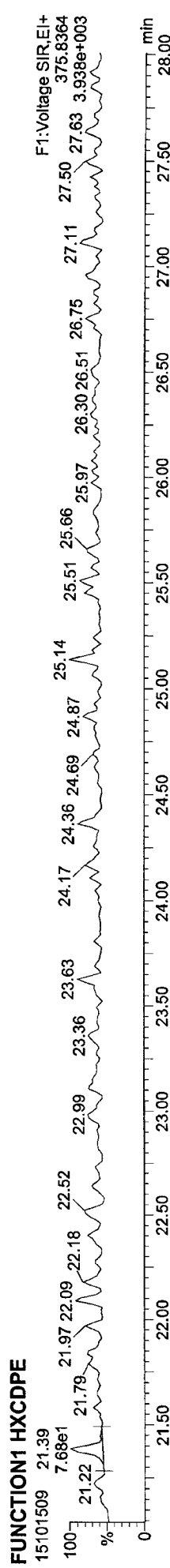
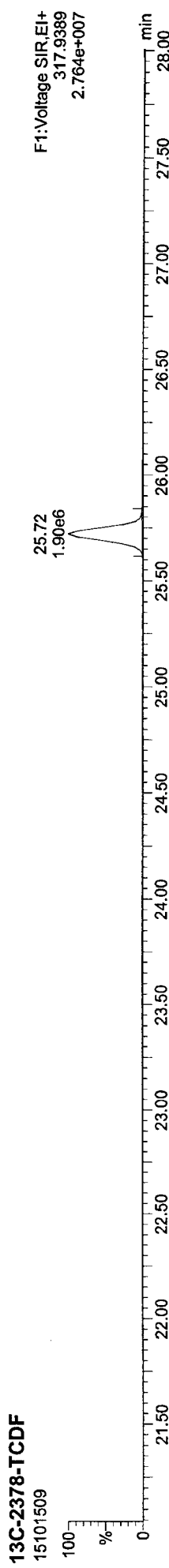
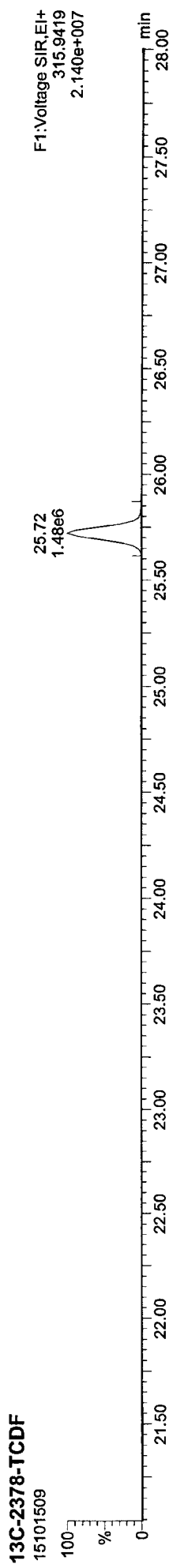
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Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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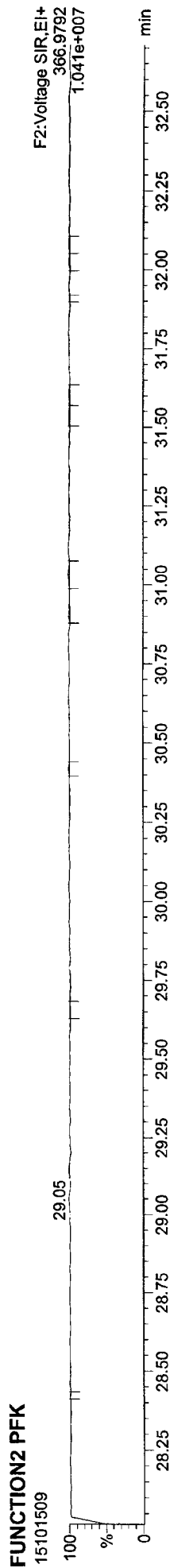
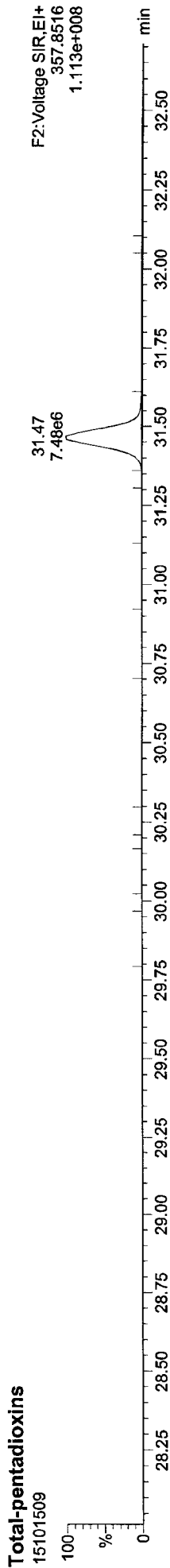
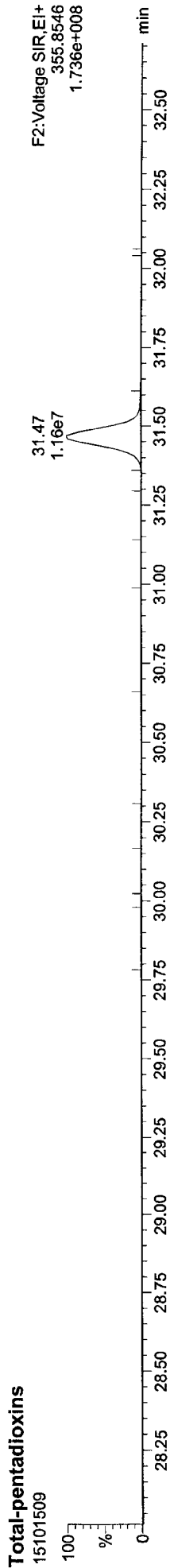
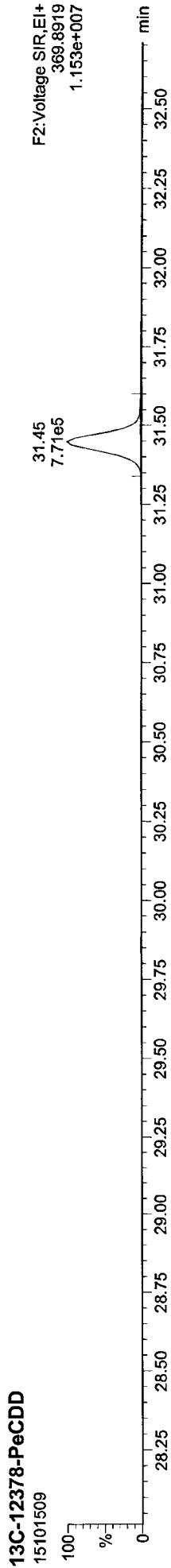
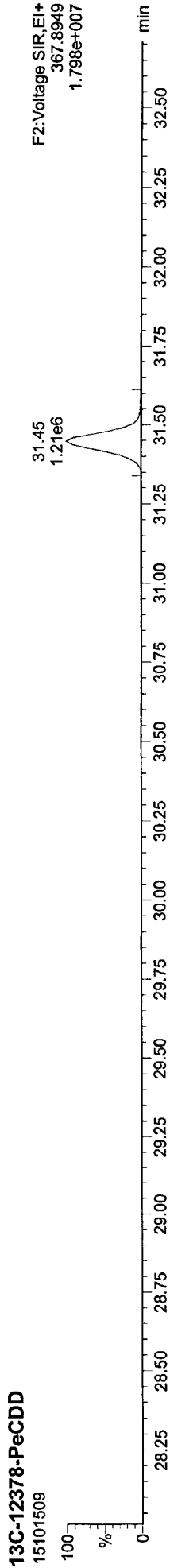
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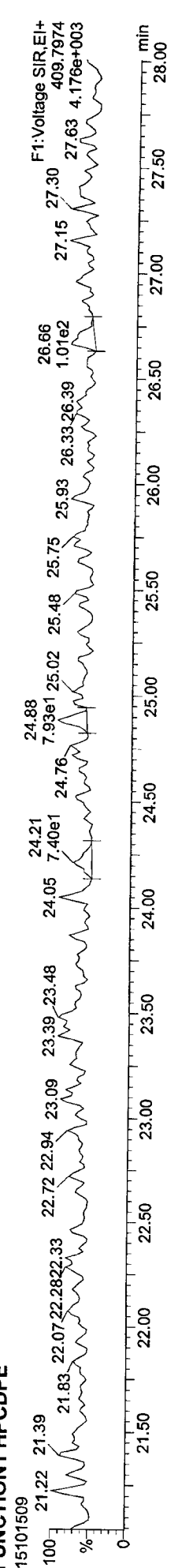
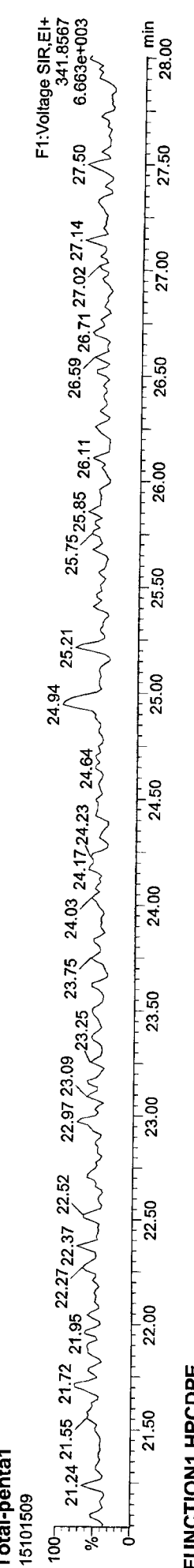
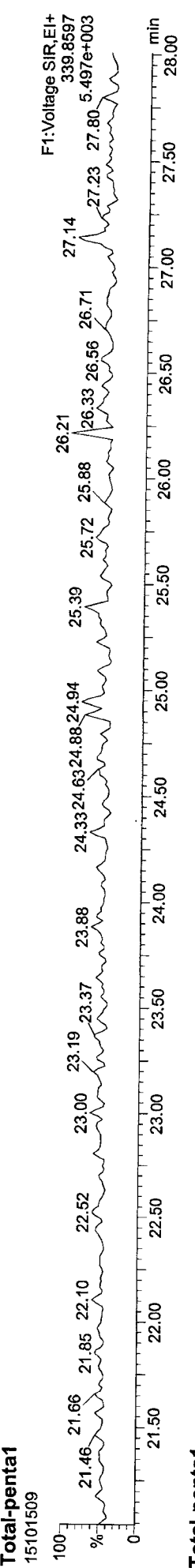
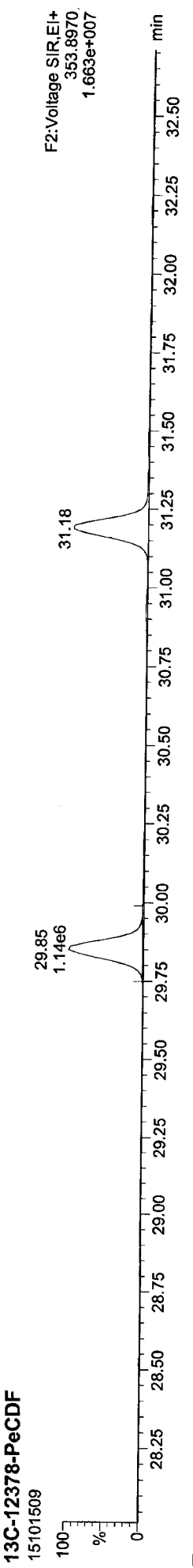
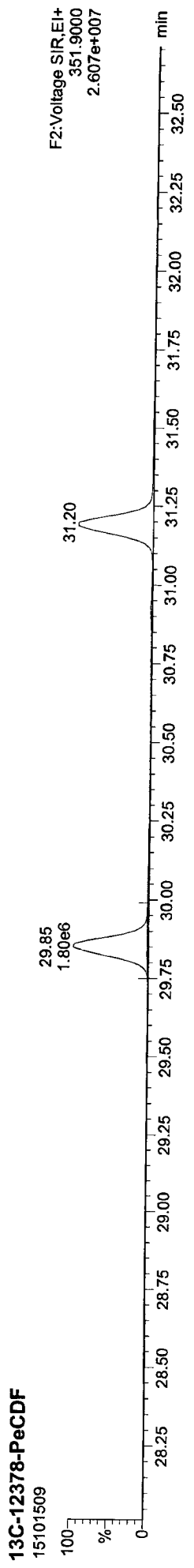
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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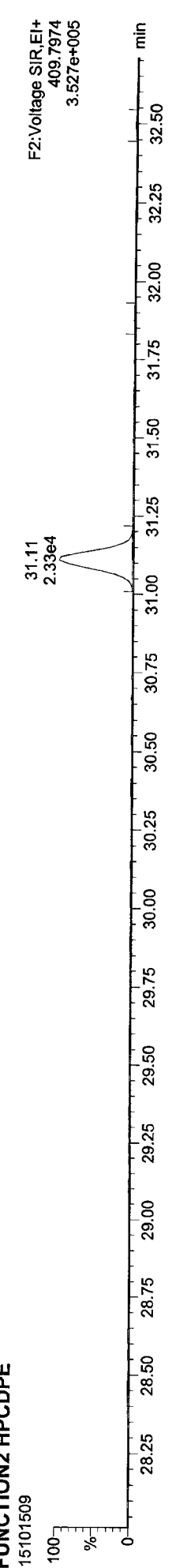
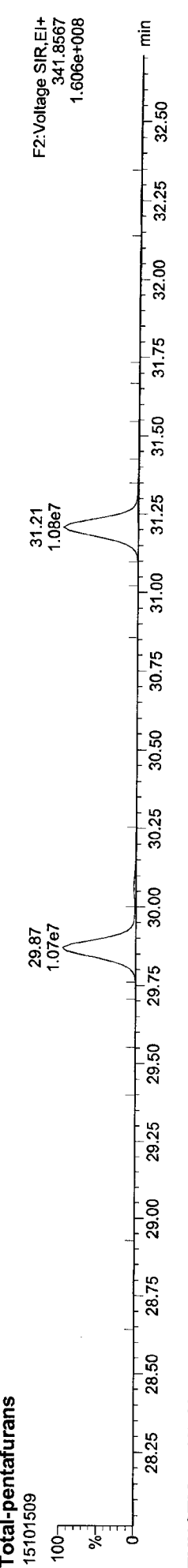
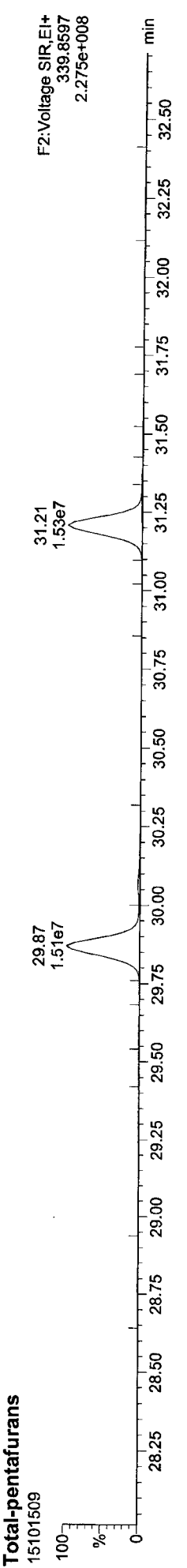
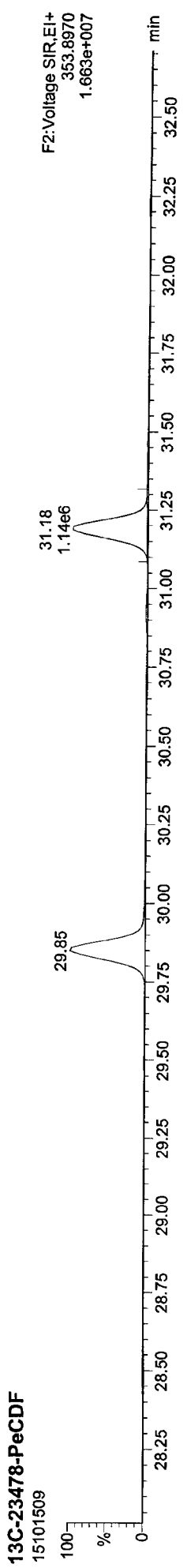
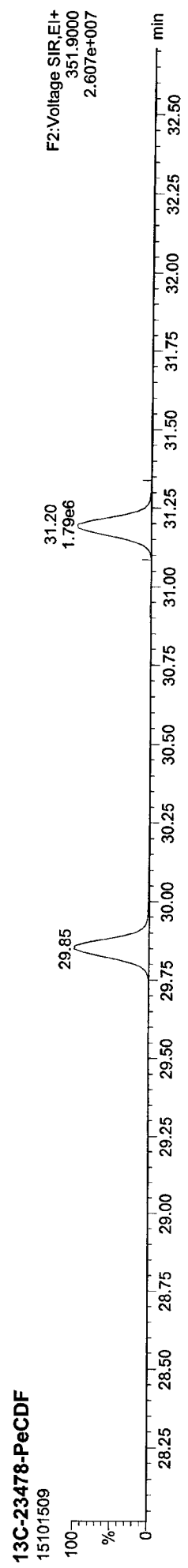


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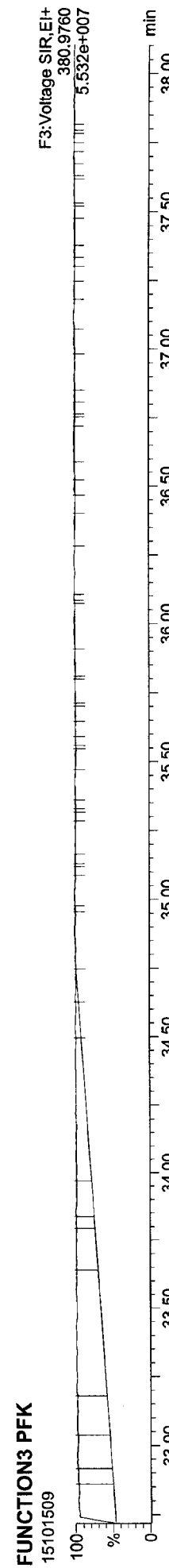
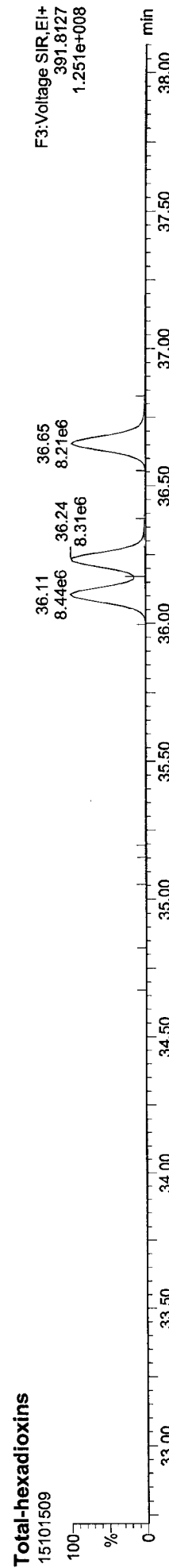
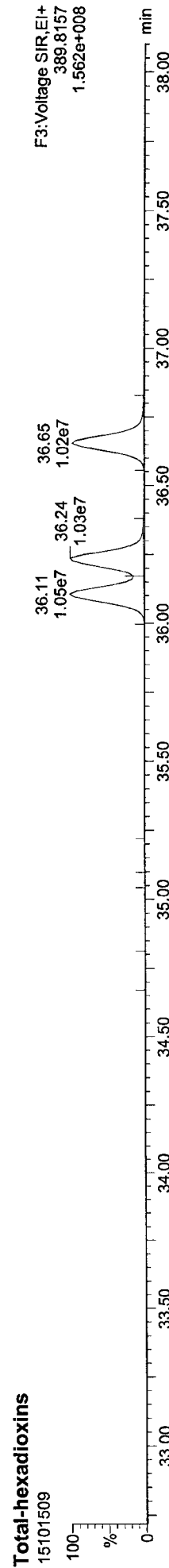
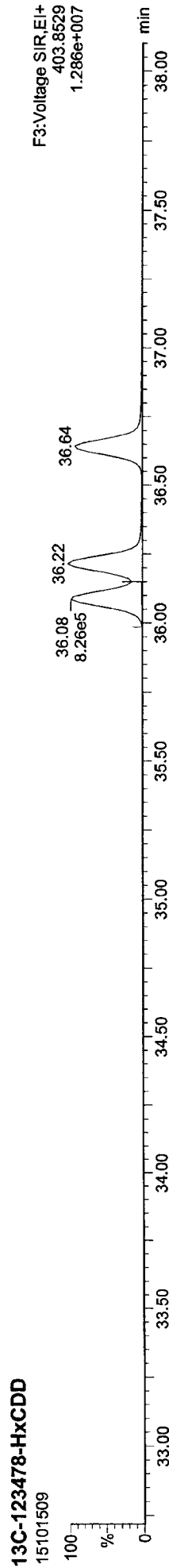
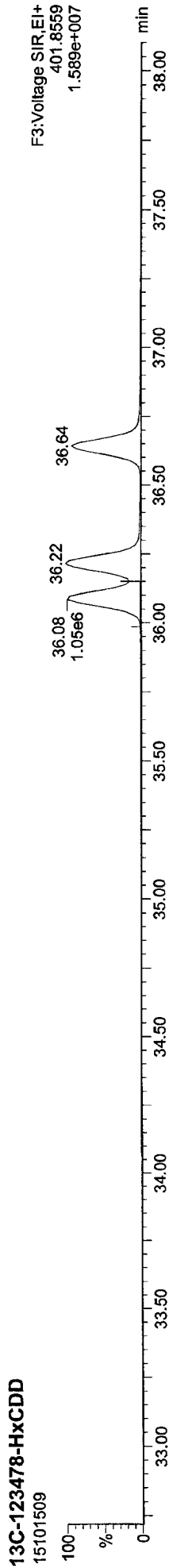
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk

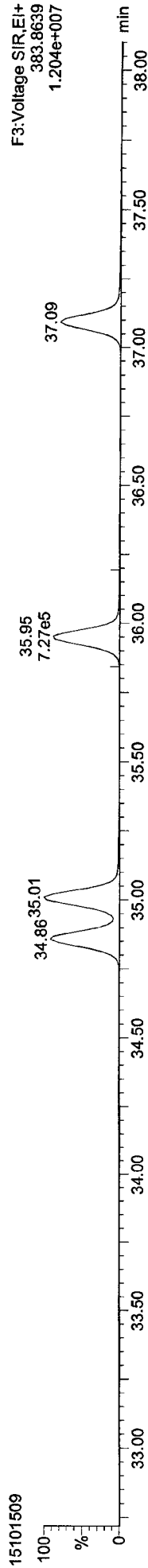


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

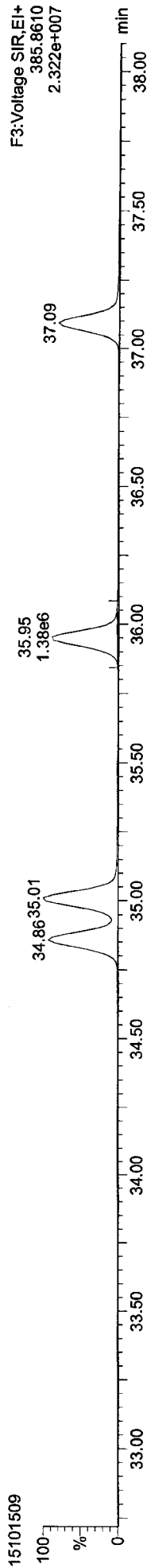
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ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk

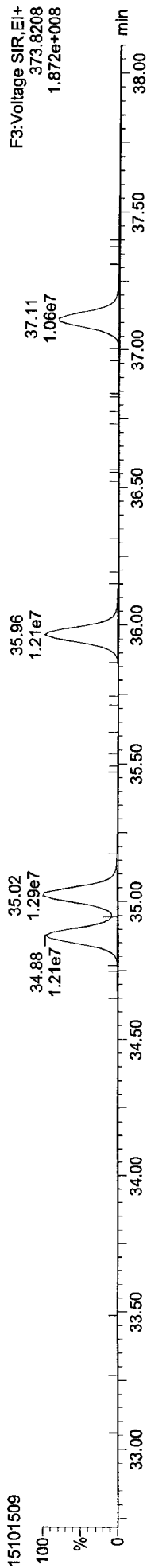
13C-234678-HxCDF



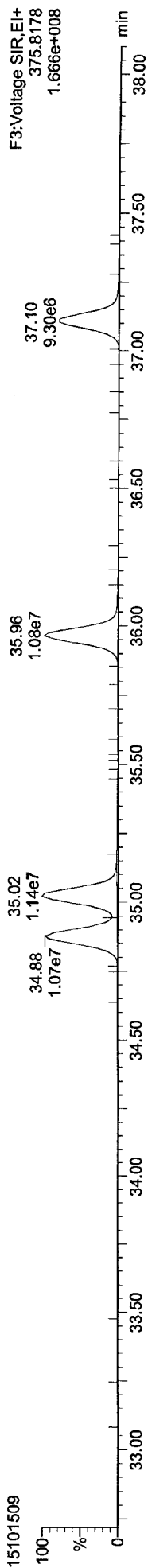
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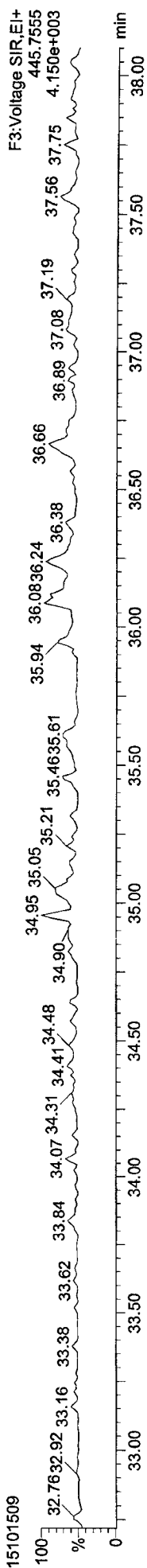
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDFE



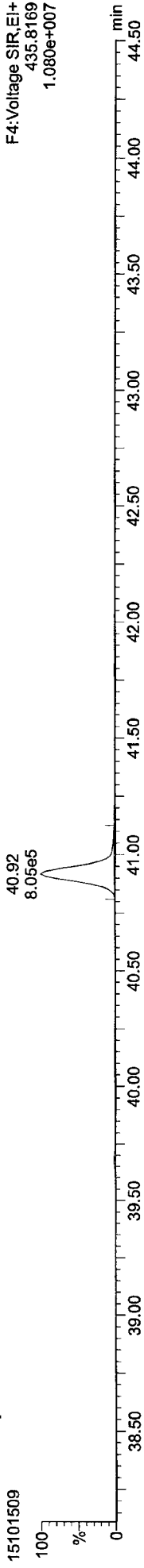
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

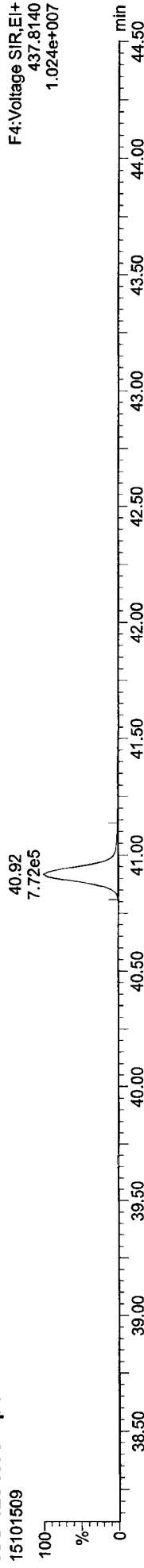
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Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk

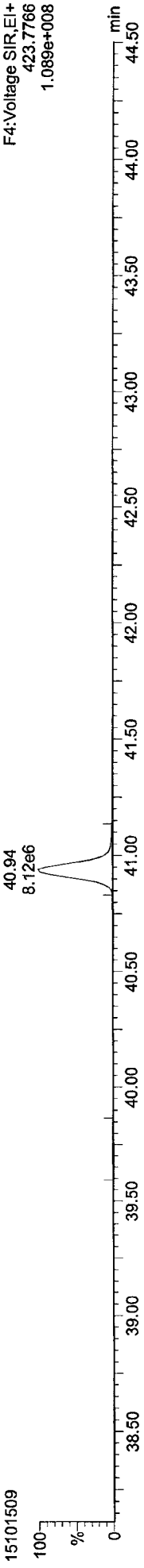
13C-1234678-HpCDD



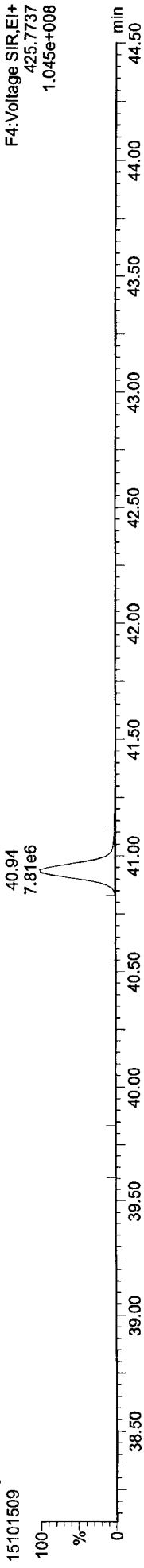
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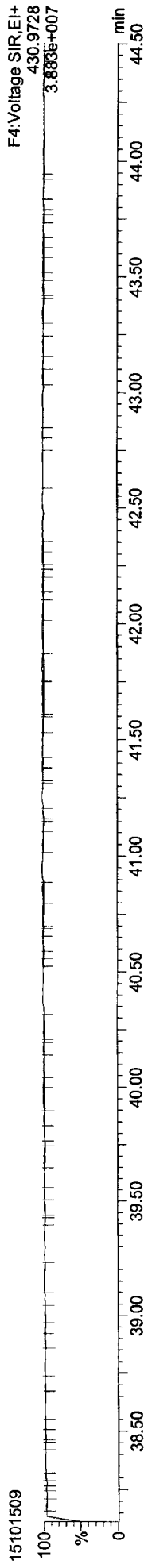
Total-heptadioxins



Total-heptadioxins

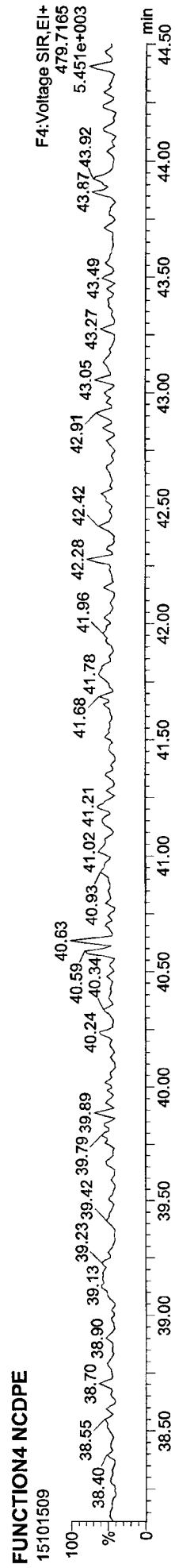
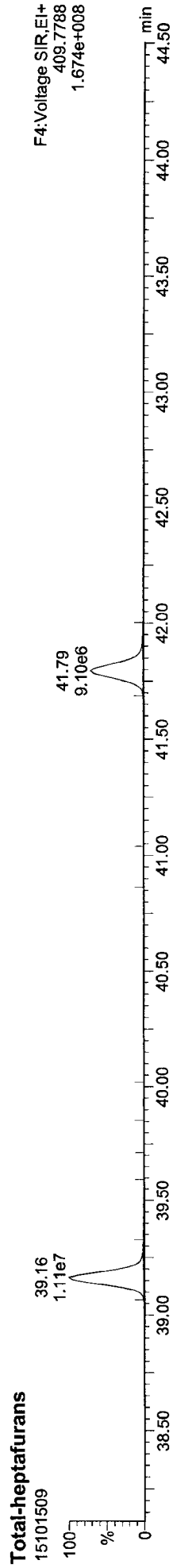
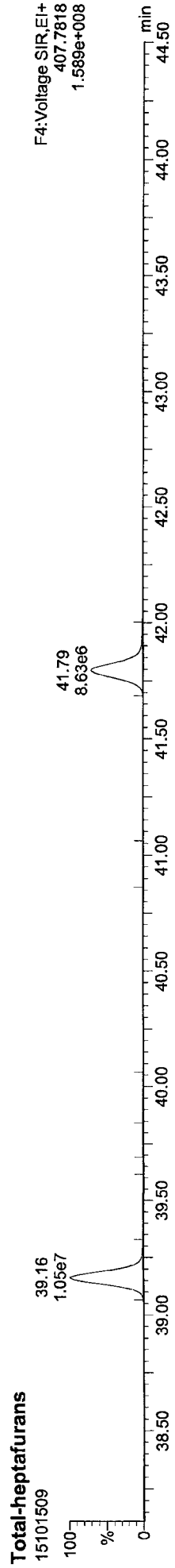
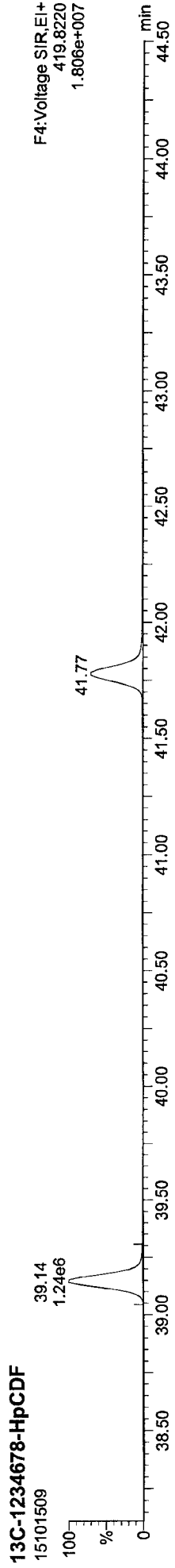
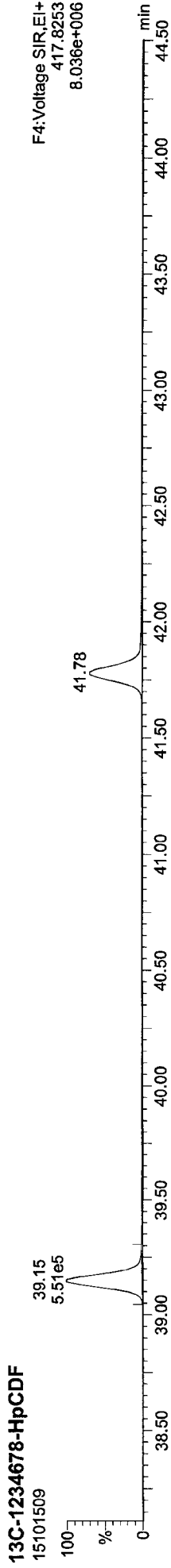


FUNCTION4 PFK



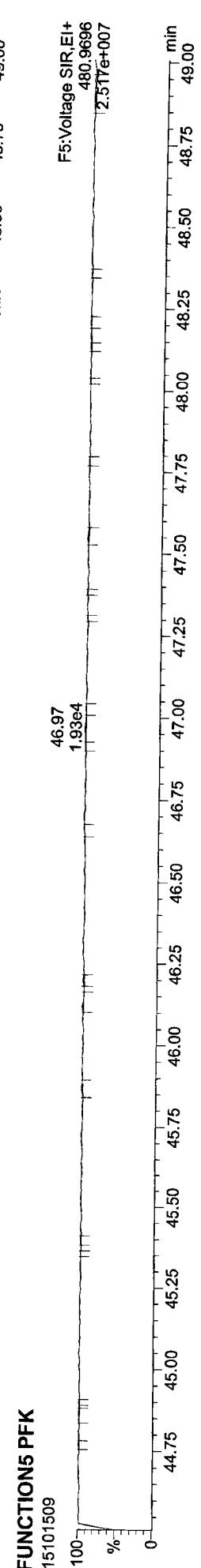
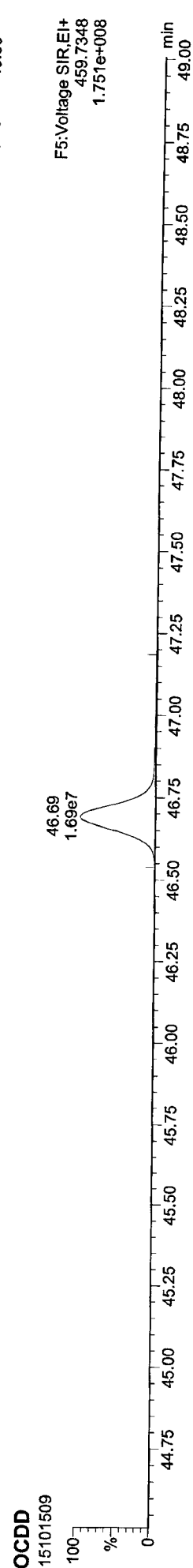
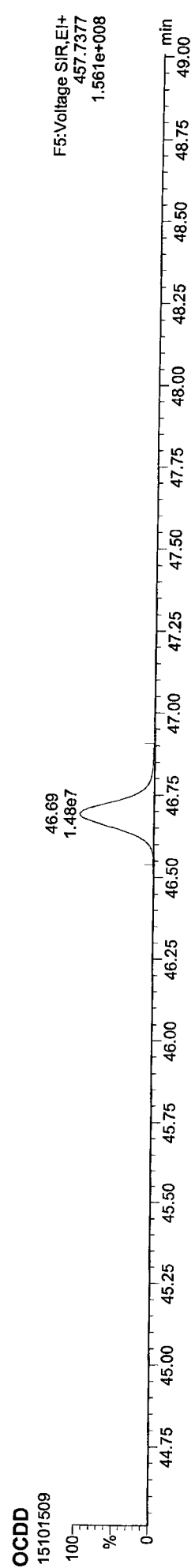
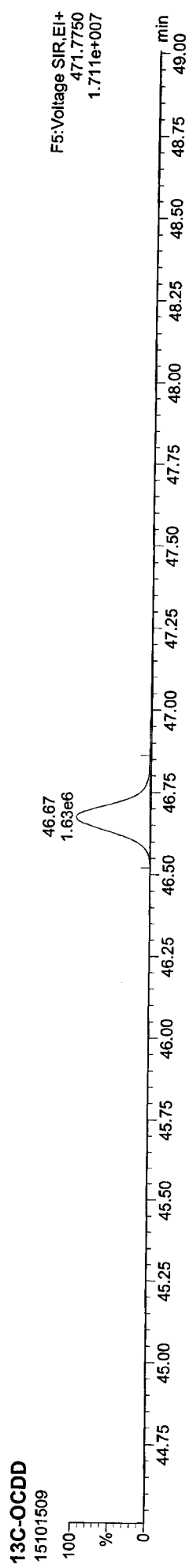
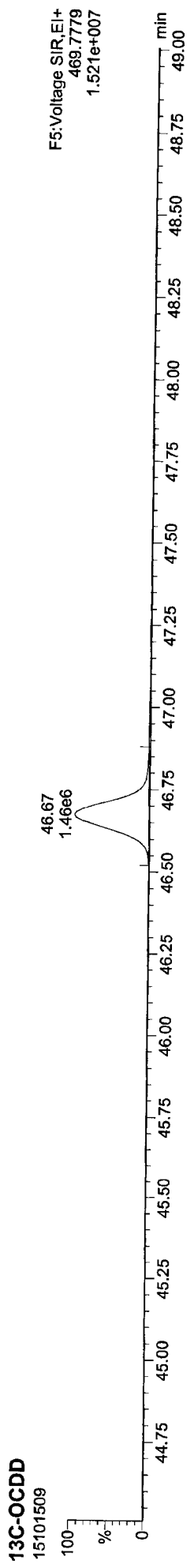
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
Last Altered: Friday, October 16, 2015 09:47:27 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk



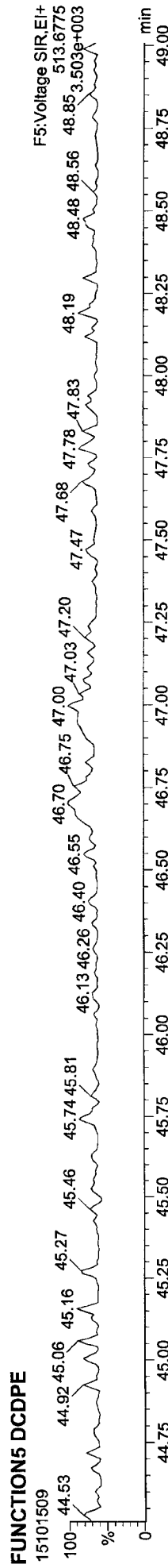
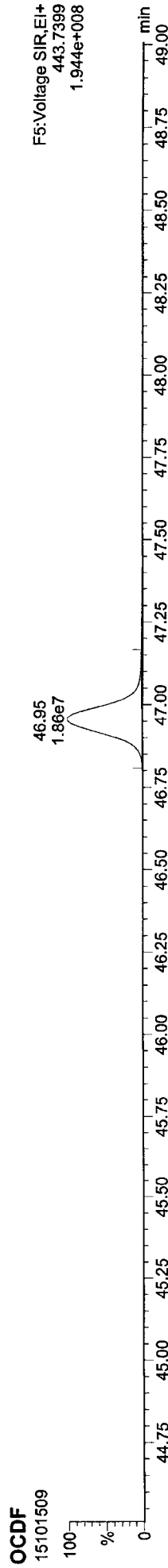
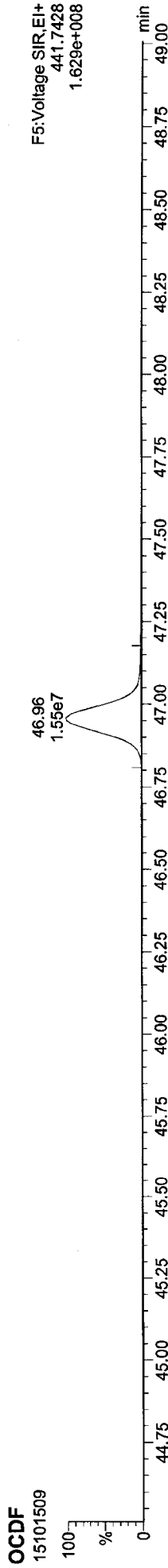
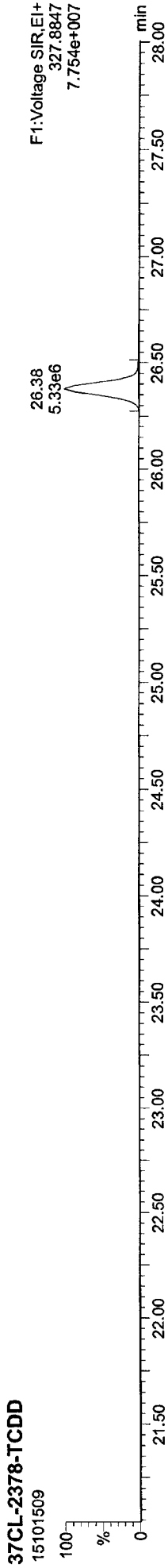
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 Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1510151C.qld
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Printed: Friday, October 16, 2015 09:50:05 Pacific Daylight Time

ID: CS5, Name: 15101509, Date: 15-Oct-2015, Time: 19:31:22, Conditions: AUTOSPEC01, User: pk



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\151015ICV.qld

Last Altered: Friday, October 16, 2015 09:53:17 Pacific Daylight Time

Printed: Friday, October 16, 2015 09:54:10 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethD\B\Dioxin1510153SN.mdb 15 Oct 2015 16:11:27
 Calibration: P:\DIOXIN8290.PRO\CurveDB\151015ICAL.cdb 16 Oct 2015 09:47:27

ID: ICV, Name: 15101510, Date: 15-Oct-2015, Time: 20:24:17, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred:R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	25.750	1.001	1.00e5	1.53e5	0.827	0.655	0.770	818	1443	1.39e6	2.02e6	1694.2	NO	9.964	9.964
12378-PeCDF	29.869	1.000	6.34e5	4.64e5	0.824	1.366	1.550	2331	2631	8.96e6	6.44e6	3843.4	NO	54.863	54.863
23478-PeCDF	31.206	1.000	5.97e5	4.30e5	0.850	1.388	1.550	2331	2631	8.65e6	6.18e6	3709.7	NO	50.512	50.512
123478-HxCDF	34.879	1.000	5.08e5	4.51e5	0.973	1.123	1.240	2256	2827	7.39e6	6.55e6	3276.5	NO	56.905	56.905
234678-HxCDF	35.975	1.001	4.92e5	4.35e5	1.025	1.130	1.240	2256	2827	6.80e6	6.01e6	3012.1	NO	49.539	49.539
123678-HxCDF	35.032	1.001	5.38e5	4.85e5	0.953	1.106	1.240	2256	2827	7.39e6	6.65e6	3276.1	NO	53.673	53.673
123789-HxCDF	37.115	1.001	4.39e5	4.07e5	0.956	1.078	1.240	2256	2827	5.96e6	5.42e6	2642.6	NO	54.716	54.716
1234678-HpCDF	39.165	1.000	4.26e5	4.48e5	1.153	0.952	1.050	2326	2451	6.06e6	6.30e6	2606.3	NO	53.731	53.731
1234789-HpCDF	41.795	1.000	3.55e5	3.75e5	1.131	0.946	1.050	2326	2451	4.19e6	4.55e6	1802.9	NO	52.870	52.870
OCDF	46.952	1.006	6.28e5	7.64e5	1.023	0.822	0.890	2321	1656	6.03e6	7.32e6	2596.2	NO	118.266	118.266
2378-TCDD	26.377	1.001	9.73e4	1.26e5	1.023	0.771	0.770	1023	899	1.30e6	1.71e6	1273.8	NO	9.557	9.557
12378-PeCDD	31.469	1.001	4.96e5	3.14e5	0.939	1.579	1.550	1564	1282	6.92e6	4.42e6	4425.2	NO	49.161	49.161
123478-HxCDD	36.106	1.000	4.16e5	3.36e5	0.963	1.238	1.240	1390	2057	6.01e6	4.85e6	4322.4	NO	52.507	52.507
123678-HxCDD	36.238	1.001	4.25e5	3.44e5	0.894	1.235	1.240	1390	2057	5.94e6	4.83e6	4274.1	NO	57.661	57.661
123789-HxCDD	36.665	1.012	4.38e5	3.45e5	0.900	1.268	1.240	1390	2057	5.77e6	4.65e6	4153.0	NO	58.354	58.354
1234678-HpCDD	40.940	1.001	3.56e5	3.37e5	0.964	1.059	1.050	1688	1451	4.47e6	4.29e6	2648.7	NO	51.401	51.401
OCDD	46.683	1.000	5.93e5	6.76e5	0.969	0.877	0.890	1832	1783	5.77e6	6.48e6	3150.6	NO	113.957	113.957
13C-2378-TCDF	25.720	1.006	1.35e6	1.72e6	1.502	0.783	0.770	4199	2458	1.80e7	2.32e7	4296.9	NO	87.674	87.674
13C-12378-PeCDF	29.858	1.168	1.49e6	9.43e5	1.215	1.578	1.550	2271	3028	2.07e7	1.30e7	9114.0	NO	85.808	85.808
13C-23478-PeCDF	31.195	1.221	1.46e6	9.33e5	1.181	1.566	1.550	2271	3028	2.09e7	1.34e7	9225.0	NO	86.925	86.925
13C-123478-HxCDF	34.868	0.952	5.89e5	1.14e6	1.246	0.516	0.510	3699	2919	8.33e6	1.62e7	2253.3	NO	87.686	87.686
13C-123678-HxCDF	35.010	0.955	6.80e5	1.32e6	1.375	0.517	0.510	3699	2919	9.28e6	1.79e7	2507.7	NO	91.690	91.690
13C-234678-HxCDF	35.953	0.981	6.21e5	1.20e6	1.186	0.516	0.510	3699	2919	8.67e6	1.67e7	2343.2	NO	97.205	97.205
13C-123789-HxCDF	37.093	1.012	5.59e5	1.06e6	1.135	0.528	0.510	3699	2919	7.27e6	1.41e7	1965.7	NO	90.057	90.057
13C-1234678-HpCDF	39.154	1.069	4.31e5	9.80e5	1.020	0.440	0.440	2425	3140	6.10e6	1.39e7	2516.2	NO	87.352	87.352
13C-1234789-HpCDF	41.784	1.140	3.75e5	8.46e5	0.824	0.443	0.440	2425	3140	4.52e6	1.02e7	1862.1	NO	93.705	93.705
13C-1234-TCDD	25.555	0.000	1.03e6	1.30e6	1.000	0.788	0.770	2352	1818	1.45e7	1.83e7	6152.4	NO	100.000	100.000
13C-2378-TCDD	26.362	1.032	1.01e6	1.27e6	0.983	0.794	0.770	2352	1818	1.40e7	1.77e7	5959.9	NO	99.802	99.802
13C-12378-PeCDD	31.448	1.231	1.07e6	6.85e5	0.787	1.558	1.550	1882	1902	1.51e7	9.64e6	8020.8	NO	95.563	95.563
13C-123478-HxCDD	36.095	0.985	8.41e5	6.46e5	1.031	1.301	1.240	2297	3286	1.18e7	9.20e6	5146.9	NO	91.158	91.158
13C-123678-HxCDD	36.216	0.988	8.18e5	6.76e5	1.137	1.210	1.240	2297	3286	1.12e7	8.92e6	4888.1	NO	83.041	83.041
13C-1234678-HpCDD	40.918	1.117	7.19e5	6.79e5	0.892	1.060	1.050	1762	2253	8.99e6	8.59e6	5098.5	NO	99.053	99.053
13C-OCDD	46.665	1.273	1.09e6	1.21e6	0.852	0.901	0.890	2463	1702	1.04e7	1.16e7	4203.5	NO	170.666	170.666

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\151015ICV.qld
 Last Altered: Friday, October 16, 2015 09:53:17 Pacific Daylight Time
 Printed: Friday, October 16, 2015 09:54:10 Pacific Daylight Time

ID: ICV, Name: 15101510, Date: 15-Oct-2015, Time: 20:24:17, Conditions: AUTOSPEC01, User: pk

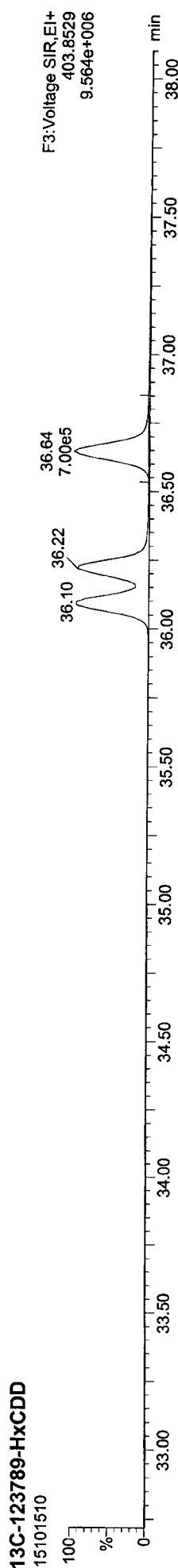
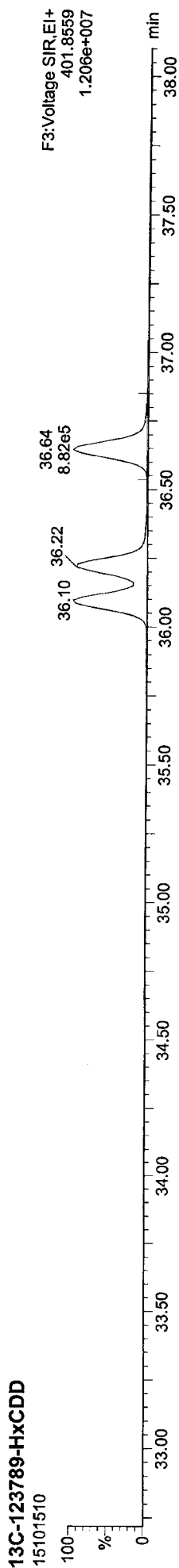
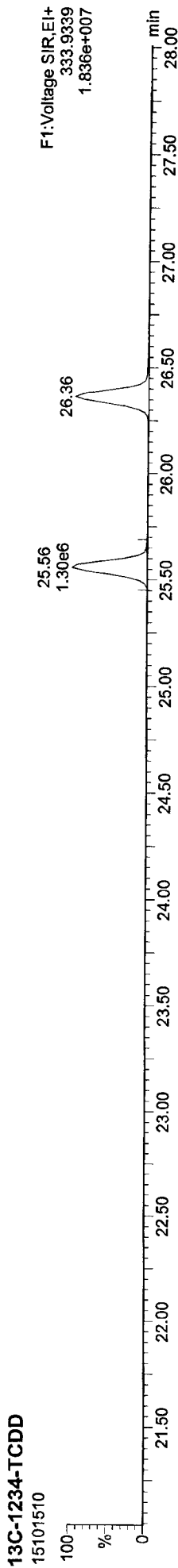
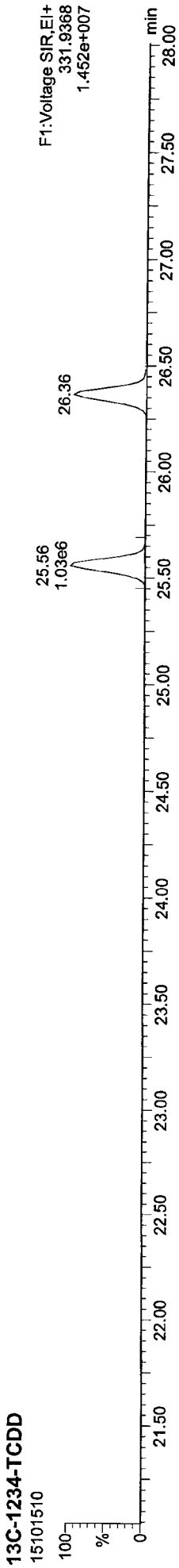
Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred/R	Noise:1	Noise:2	Height:1	Height:2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	36.643	0.000	8.82e5	7.00e5	1.000	1.259	1.240	2297	3286	1.20e7	9.48e6	5206.4	NO		100.000
Total-tetrafurans			1.01e5		0.827			818		1.40e6					10.057
Total-penta1			0.00e0					818		0.00e0					
Total-penta1furans			1.24e6		0.837			2331		1.78e7					106.636
Total-hexa1furans			1.97e6		0.977			2256		2.76e7					215.027
Total-hepta1furans			7.83e5		1.142			2326		1.03e7					106.992
Total-Furans			4.73e6		0.971			818		6.31e7					556.978
Total-tetra1dioxins			9.73e4		1.023			1023		1.30e6					9.557
Total-penta1dioxins			4.96e5		0.939			1564		6.94e6					49.226
Total-hexa1dioxins			1.28e6		0.919			1390		1.78e7					168.671
Total-hepta1dioxins			3.57e5		0.964			1688		4.49e6					51.536
Total-Dioxins			2.83e6		0.950			1023		3.63e7					392.946
Total-TEQ			7.55e6					1023		9.93e7		1996.6			949.924
37CL-2378-TCDD	26.377	1.032	2.41e5		1.091			1632		3.26e6					9.463
FUNCTION1 PFK			1.09e6					600562		2.10e7					
FUNCTION2 PFK			2.65e6					123856		8.85e6					0.000
FUNCTION3 PFK			5.41e4					287251		1.50e6					0.000
FUNCTION4 PFK			1.28e7					267086		8.41e7					
FUNCTION5 PFK			1.56e5					226615		6.68e6					
FUNCTION1 HXCDPE			7.04e1					458		1.49e3					0.000
FUNCTION1 HPCDPE			7.64e2					687		1.43e4					0.000
FUNCTION2 HPCDPE			0.00e0					752		0.00e0					
FUNCTION3 OCDPE			0.00e0					442		0.00e0					
FUNCTION4 NCDPE			7.23e1					581		2.72e3					0.000
FUNCTION5 DCDCPE			0.00e0					326		0.00e0					

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\151015ICV.qtd
Last Altered: Friday, October 16, 2015 09:53:17 Pacific Daylight Time
Printed: Friday, October 16, 2015 09:54:10 Pacific Daylight Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1510153SN.mdb 15 Oct 2015 16:11:27
Calibration: P:\DIOXIN8290.PRO\CurveDB\151015ICAL.cdb 16 Oct 2015 09:47:27

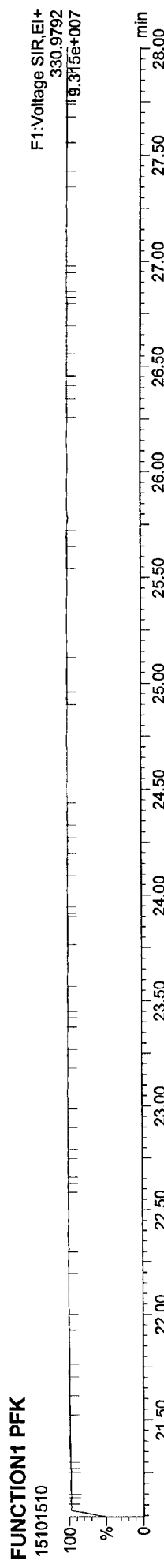
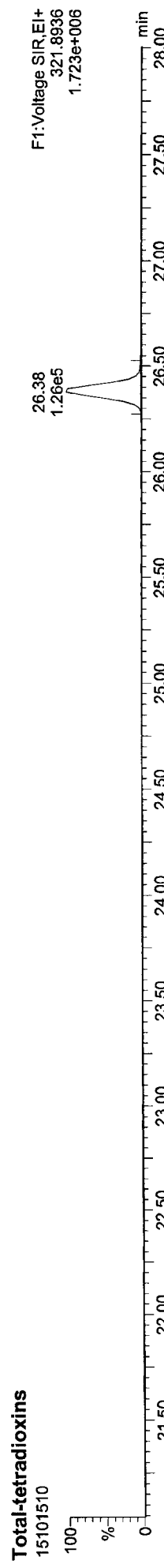
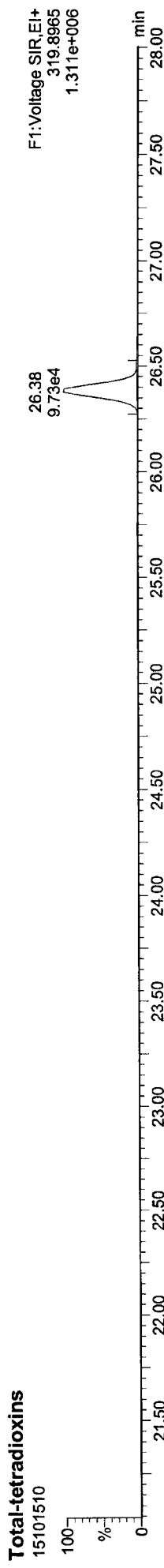
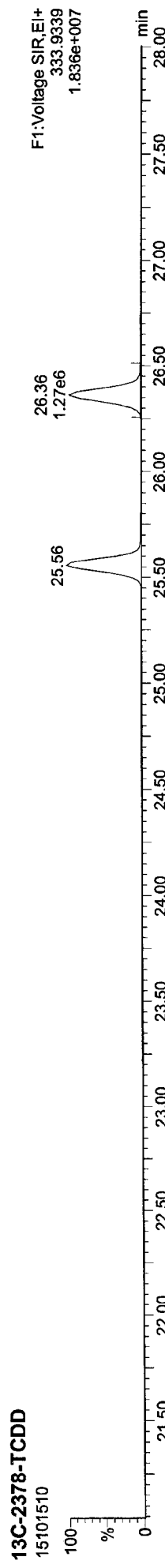
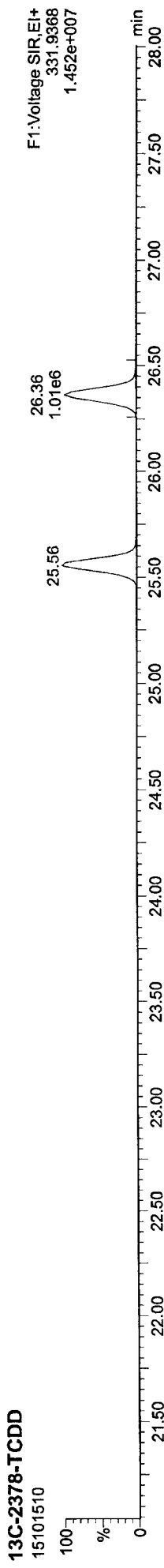
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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Printed: Friday, October 16, 2015 09:54:10 Pacific Daylight Time

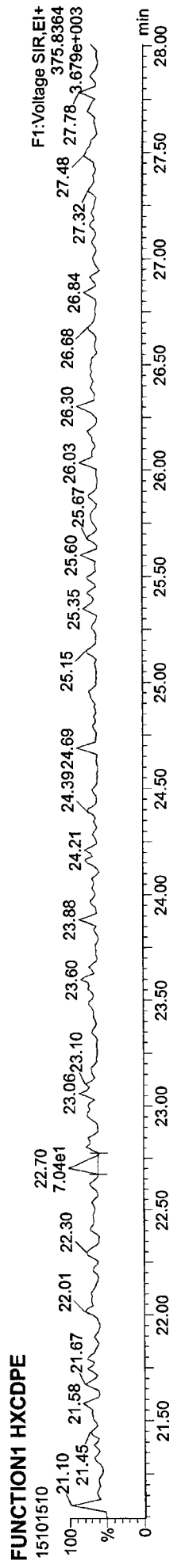
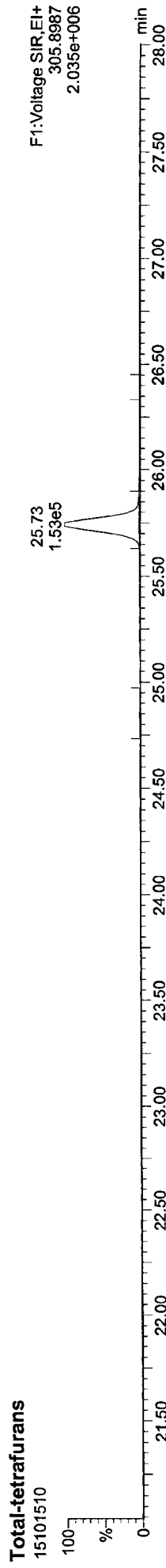
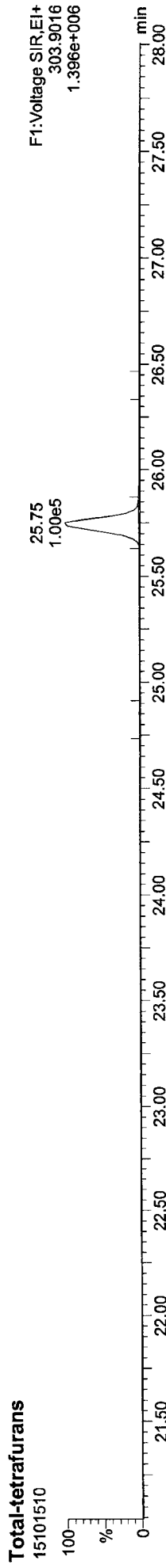
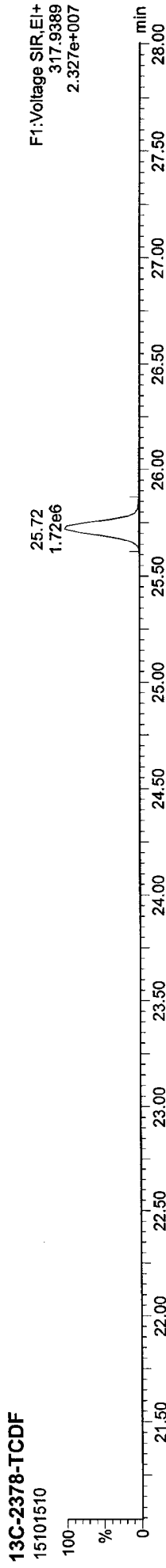
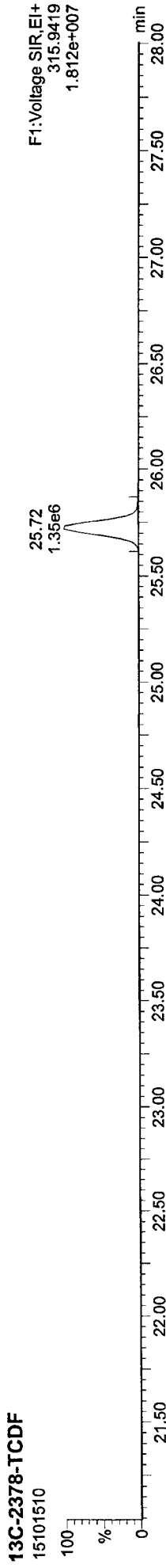
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Quantify Sample Report MassLynx V4.1 SCN909

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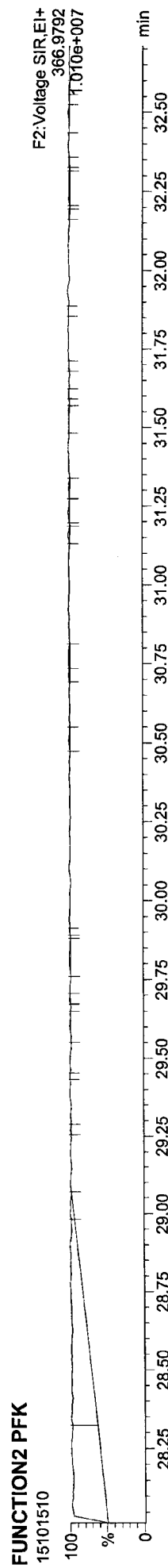
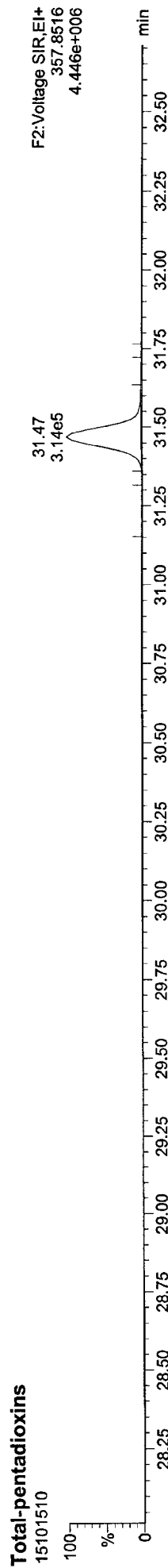
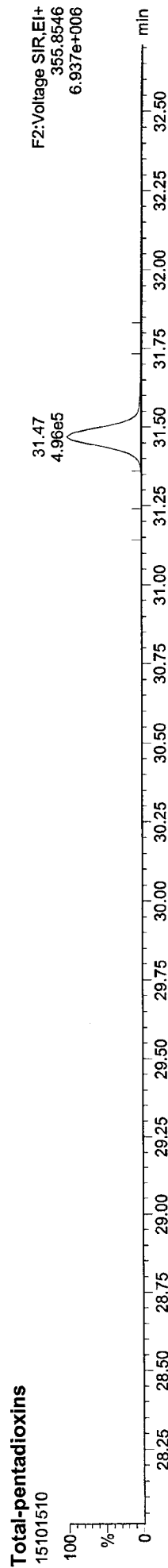
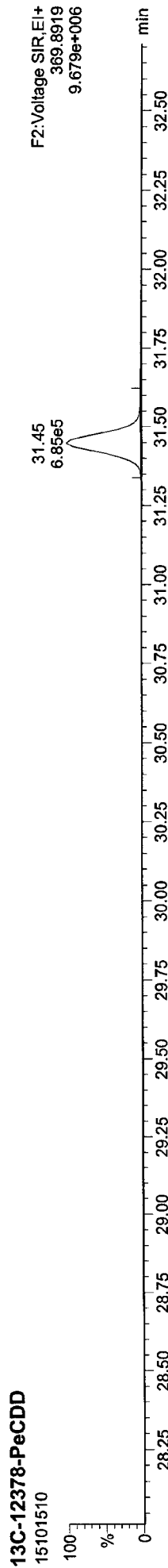
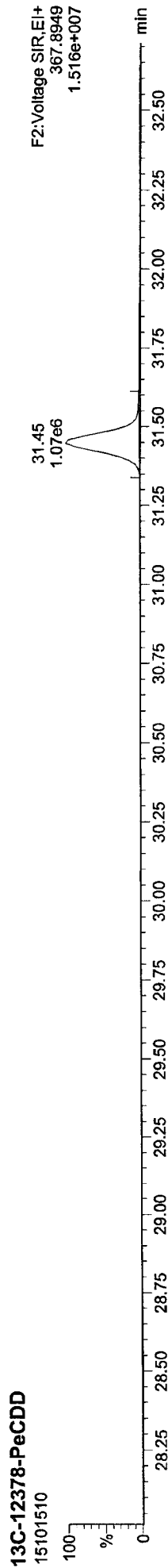
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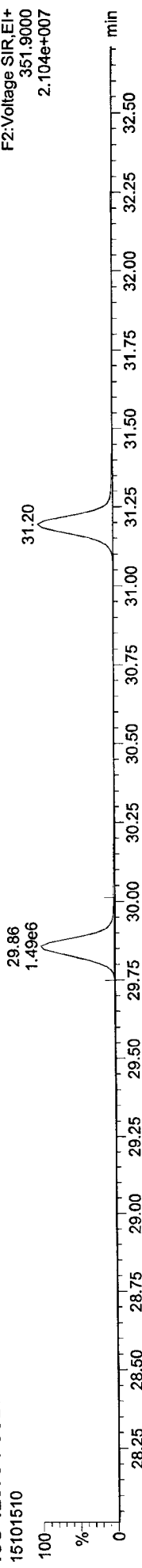
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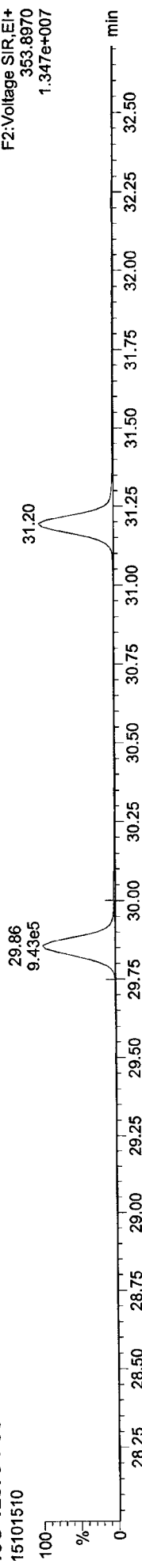
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13C-12378-PeCDF



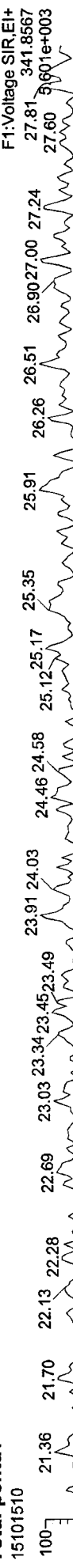
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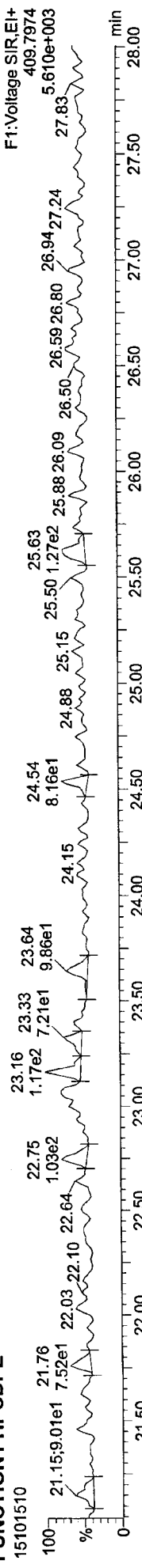
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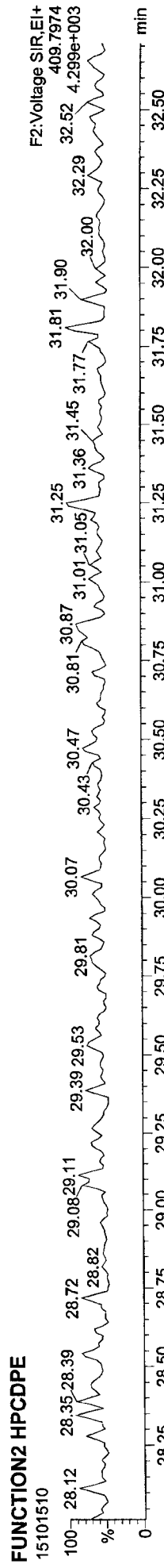
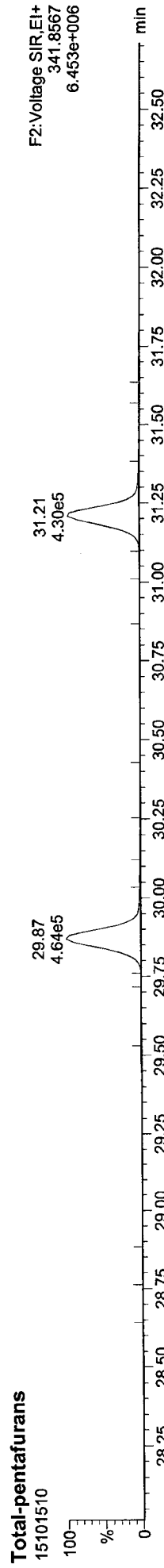
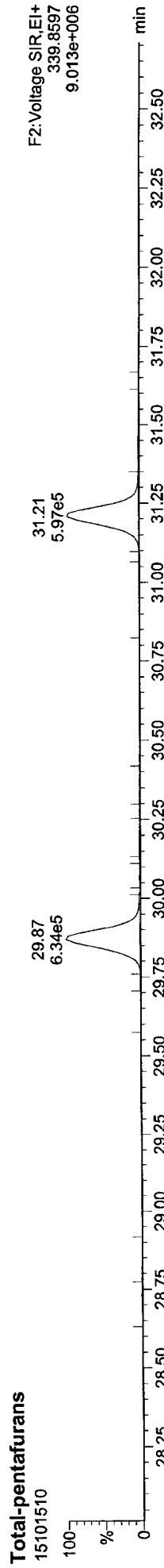
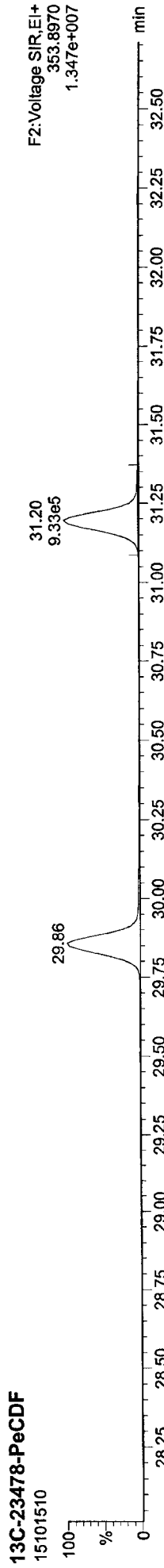
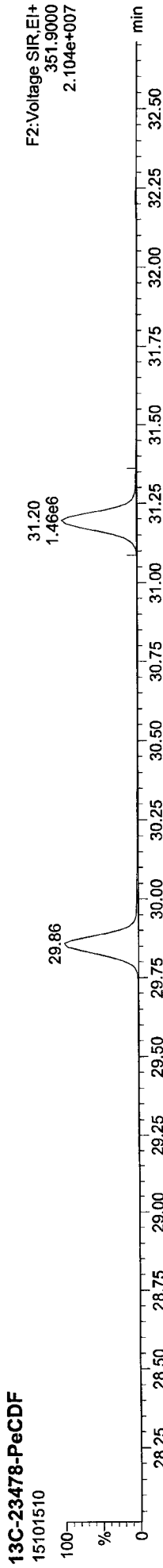
FUNCTION1 HPCDPE



Quantify Sample Report MassLynx V4.1 SCN909

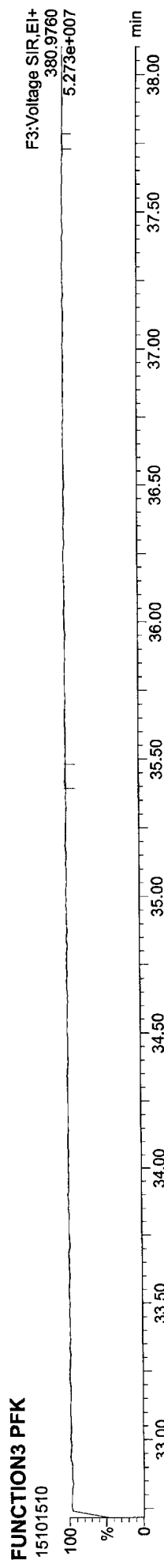
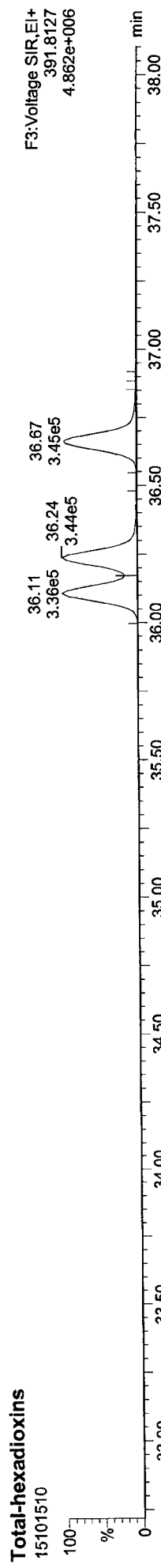
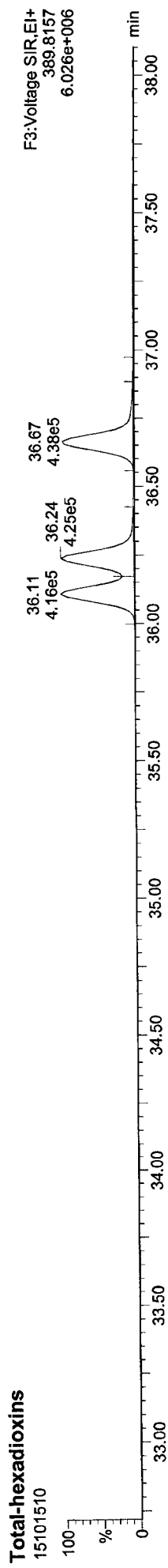
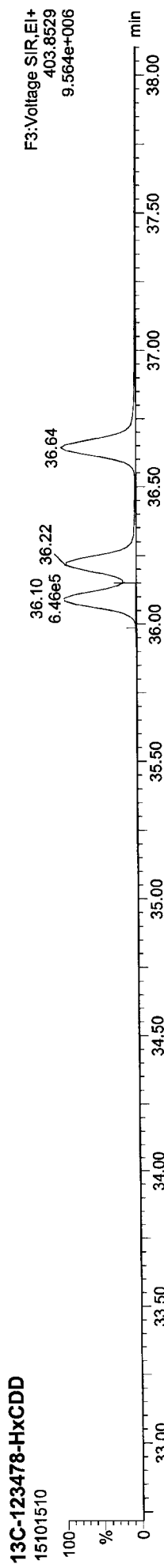
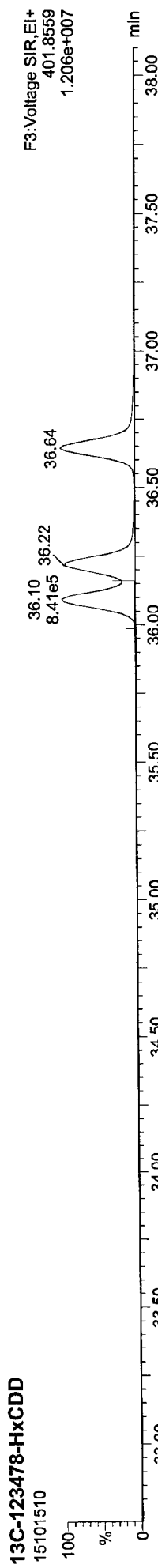
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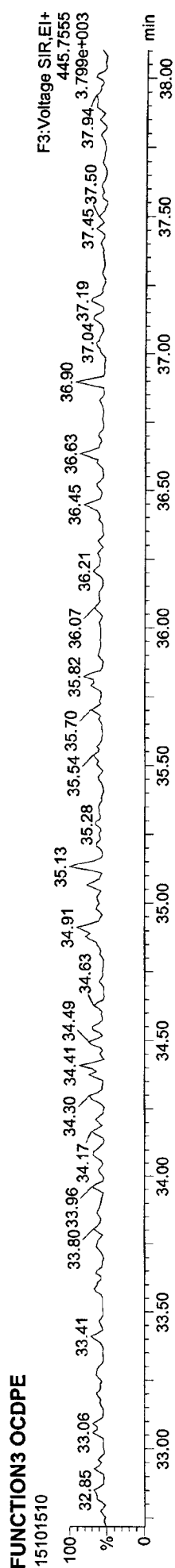
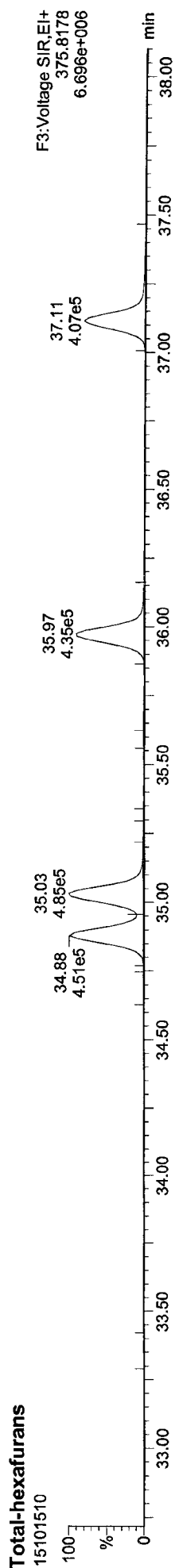
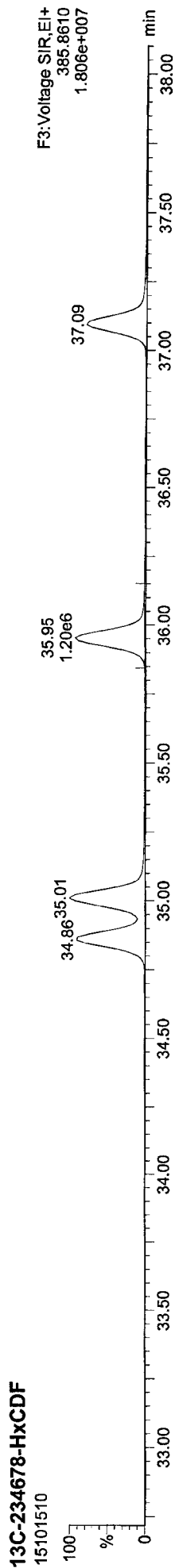
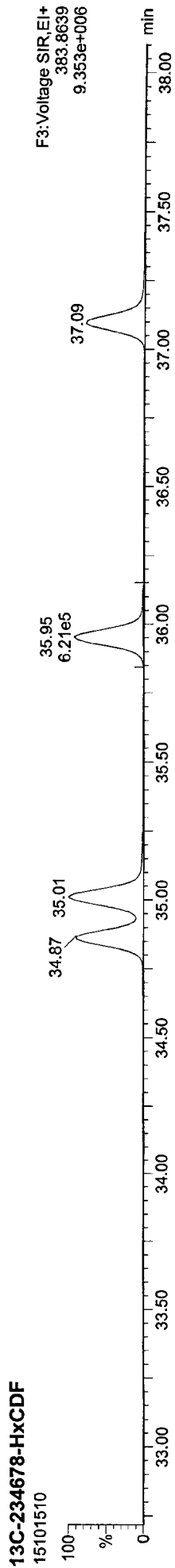
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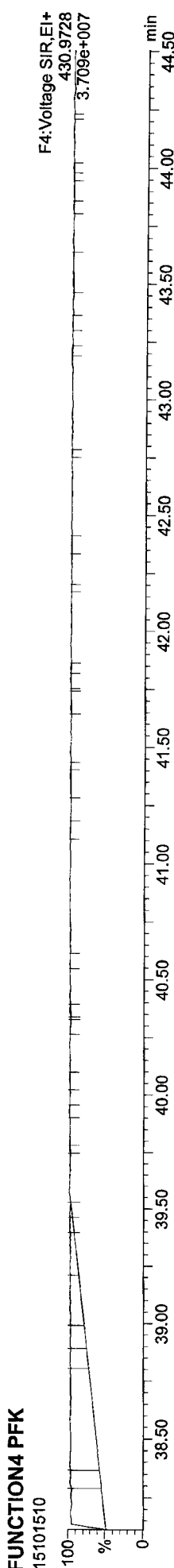
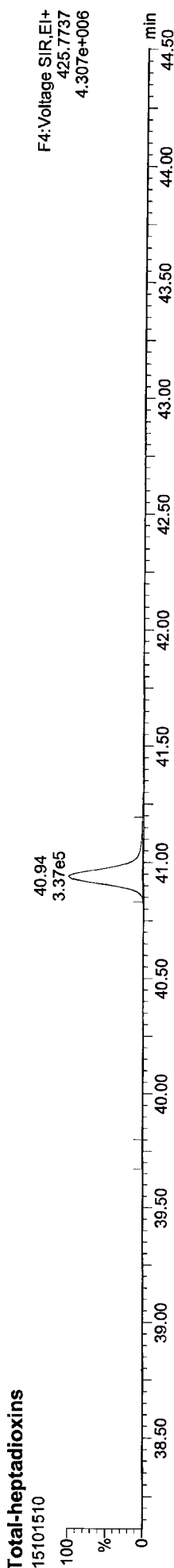
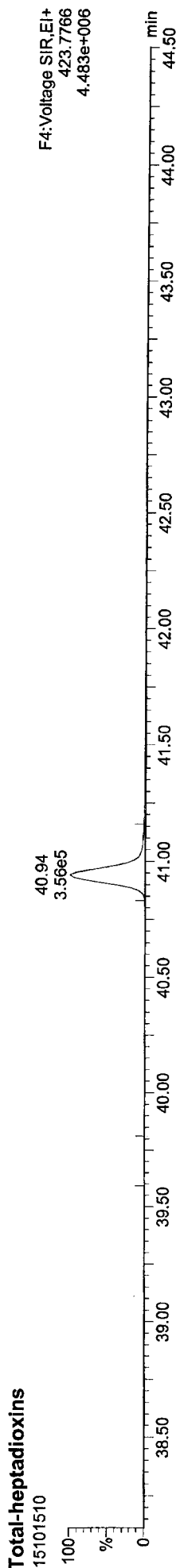
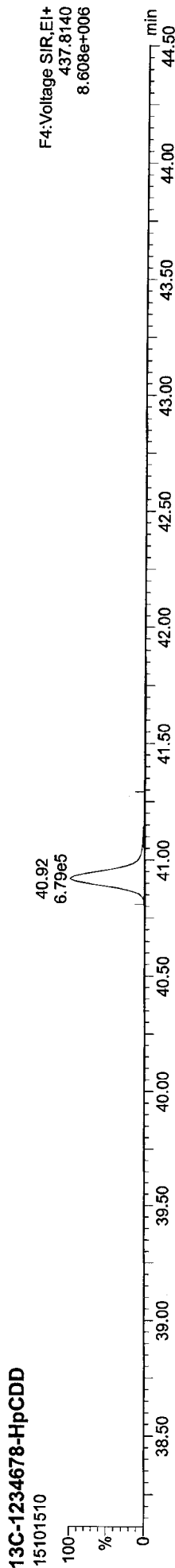
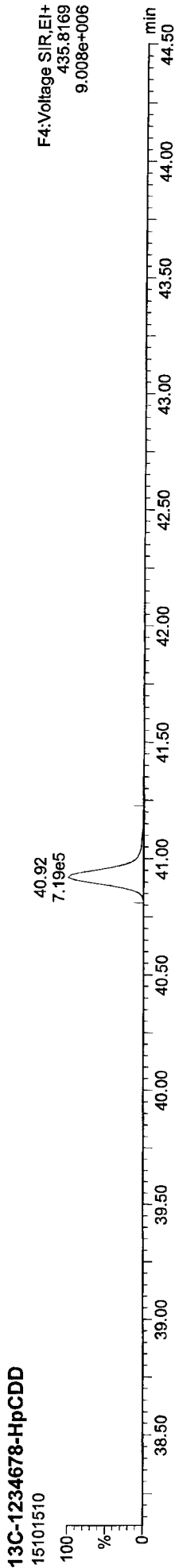
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

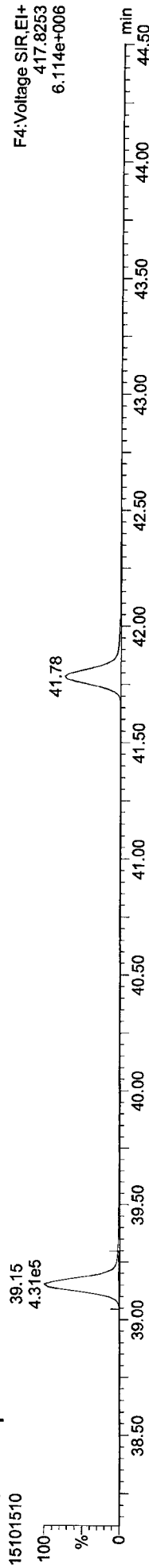
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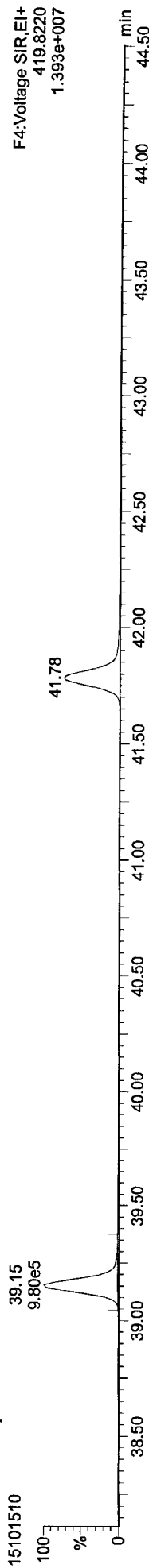
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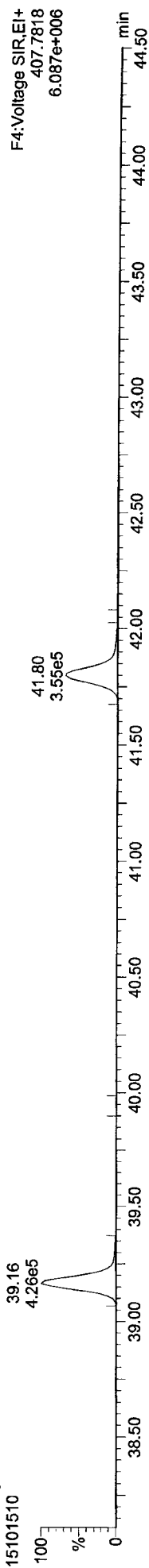
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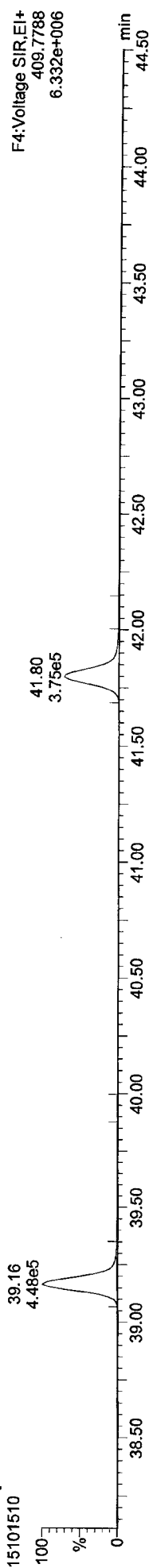
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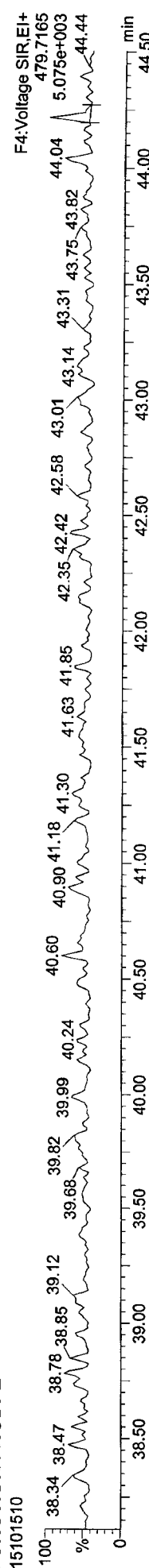
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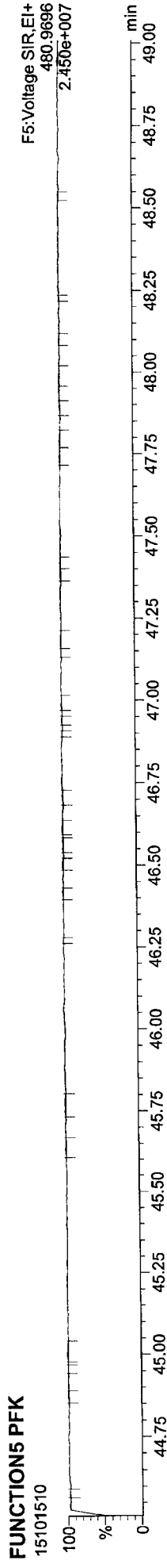
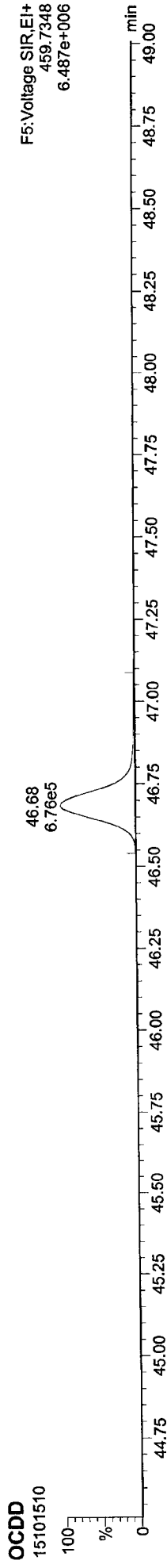
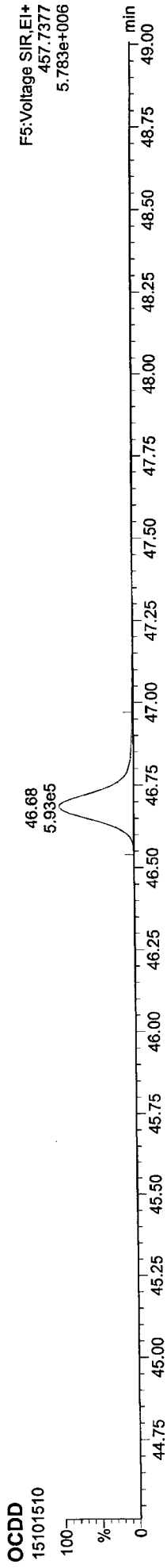
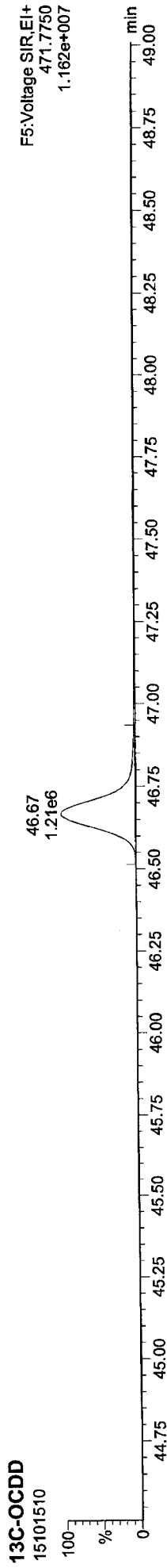
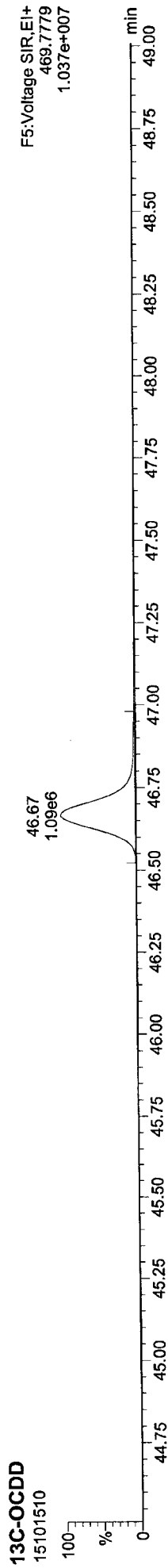
FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

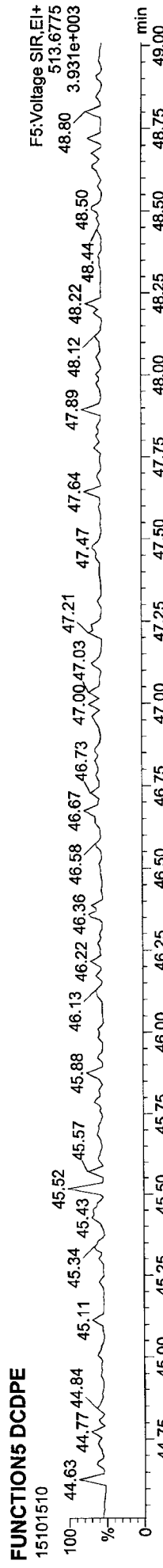
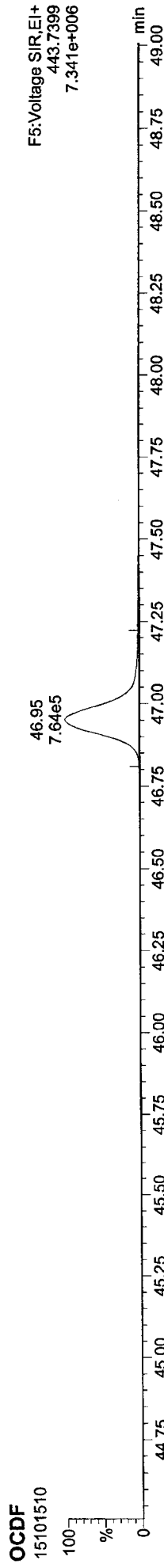
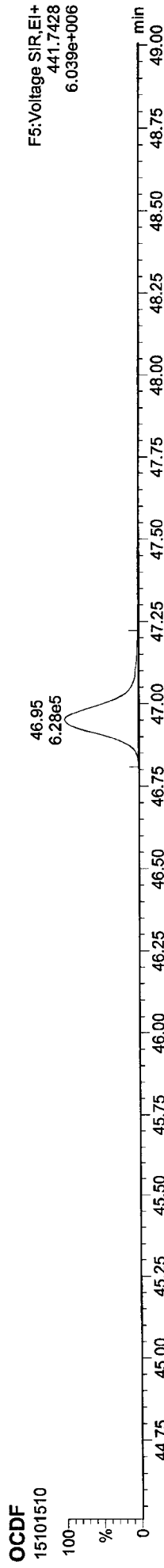
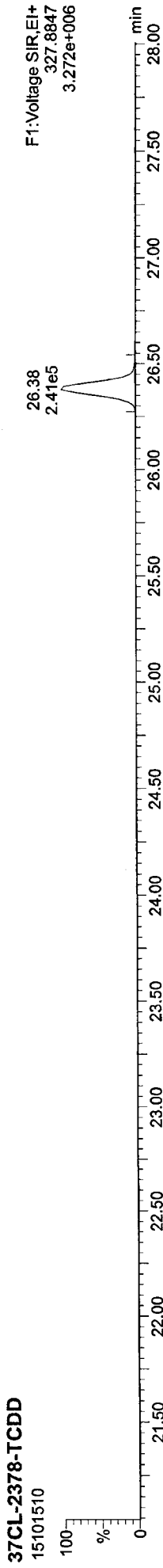
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ID: ICV, Name: 15101510, Date: 15-Oct-2015, Time: 20:24:17, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\151015ICV.qld
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Printed: Friday, October 16, 2015 09:54:10 Pacific Daylight Time

ID: ICV, Name: 15101510, Date: 15-Oct-2015, Time: 20:24:17, Conditions: AUTOSPEC01, User: pk



Dioxin Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: ATS0



HR-GC/MS Analyst Notes / Data Review Checklist

ELEMENT/NWA: ATSO

Client ID: Anchor

Element Calibration Code: YJ0017

METHOD: 1613B (Dioxins) 8290A (Dioxins)

Instrument: **AutoSpec01**

Analysis Start Date: 1/29/16

Resolution Check > 10,000ppm REVIEW 1/REVIEW 2 (Y)/N/ ✓

Signal / Noise ≥ 3.0? REVIEW 1/REVIEW 2 (Y)/N/ ✓

TCDD /TCDF Resolution ≤ 25% (Y)/N/ ✓

Extraction STD Limits Met? (Y)/N/ ✓

PCDF Windows Verified (Y)/N/ ✓

Cleanup STD Limits Met? (Y)/N/ ✓

ICV/CCV %D limits met? (Y)/N/ ✓

Method Blank in Control? (Y)/N/ ✓

ICV/CCV Ratios limits met? (Y)/N/ ✓

OPR Recovery Limits Met? (Y)/N/ ✓

ICV/CCV RRT limits met? (Y)/N/ ✓

Values Exceeding Curve Range? Y (N)

Manual Integrations? (Y)/N/ ✓

Samples Diluted? Y (N)

VDP Completed? NA (Y)/N/

Duplicate Sample RPD ≤ 25%? NA /

EPA Case # NA /

Technical Review? /

Detail problems, corrective actions and/or other pertinent information below:

OK

(Review 1)Analyst: *[Signature]* Date: 2/1/16

(Review 2)Peer: _____ Date: _____

(Final Review)Reviewer: *[Signature]* Date: 2/2

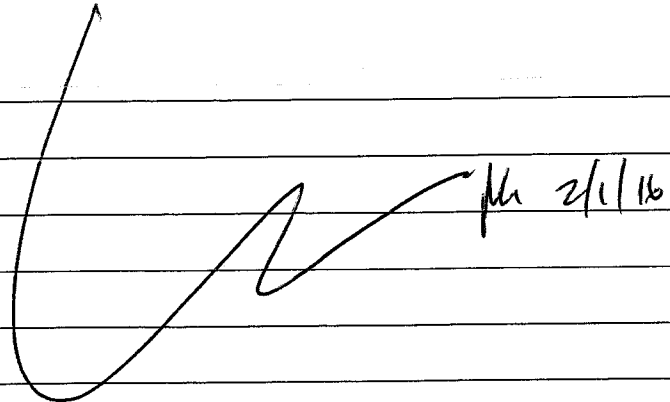
Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.: GC=CN10921030, MS=P764

Date: 1/21/16 Analysis: Dioxin Analyst: pk
 GC Program: 8890D Column No: D1322 Column Type: RT-Dioxin 2
 Inj Vol: 1ul Instrument Tune (IPR): Jandello 1-5 Detector Voltage: 340
 Resolution Check Files: 10:55, 23:28 Curve Date: 10/15/15

IS/SS	Ical/Ccal	LCS/ICV
<u>D4376</u>	<u>C125</u>	
	<u>C424</u>	

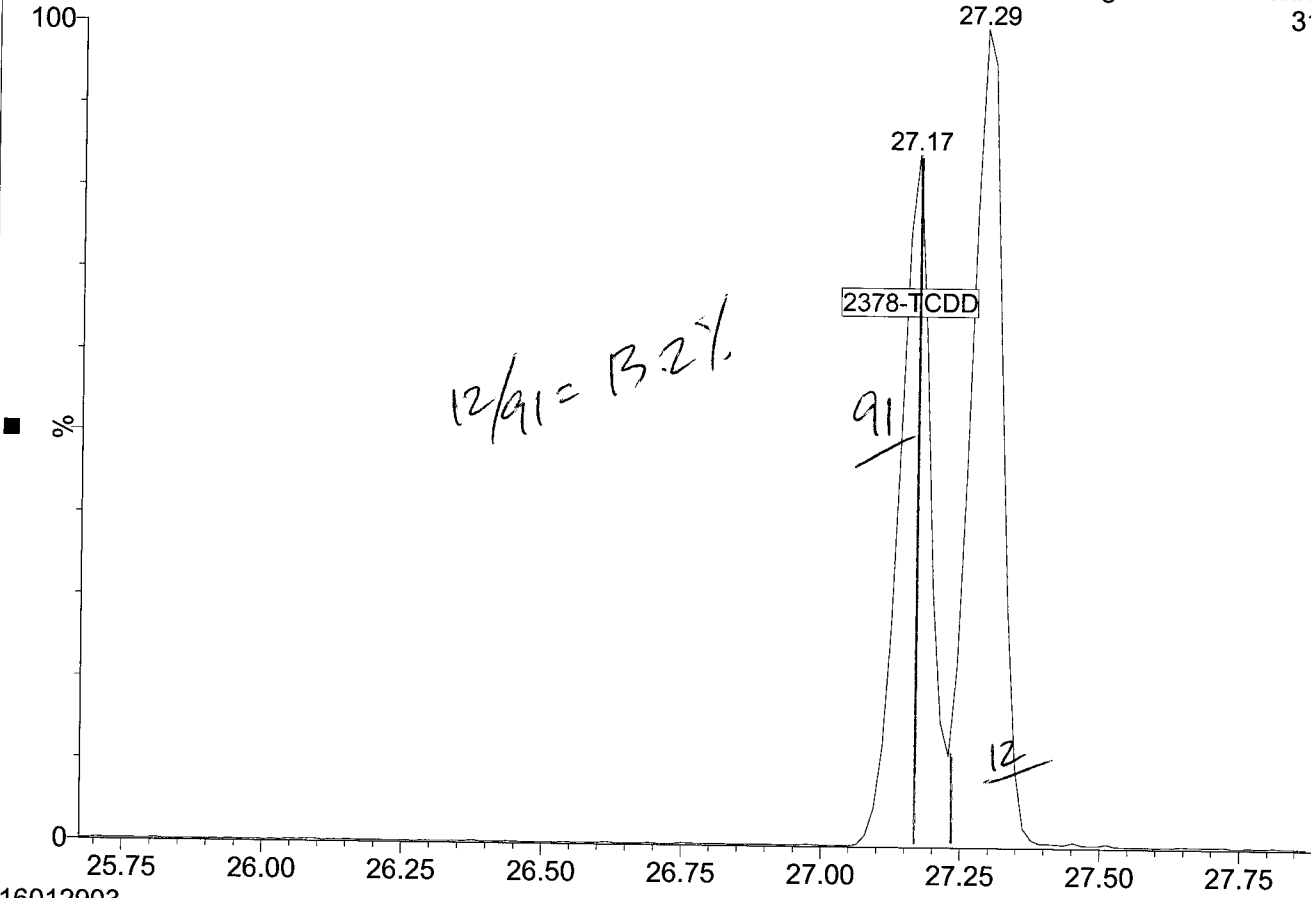
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2	29-Jan-16	11:49:44	16012903	ISC01	
3	29-Jan-16	14:28:15	16012904	AT50MBT	
4	29-Jan-16	15:20:03	16012905	AT50OPR	
5	29-Jan-16	16:13:47	16012906	APR4A	
6	29-Jan-16	17:07:35	16012907	AT50A	
7	29-Jan-16	18:01:18	16012908	AT50B	
8	29-Jan-16	18:55:08	16012909	AT50C	
9	29-Jan-16	19:48:42	16012910	AT50D	
10	29-Jan-16	20:42:23	16012911	AT50E	
11	29-Jan-16	21:36:00	16012912	AT50F	
12	29-Jan-16	22:29:47	16012913	CS3	
13	29-Jan-16	23:28:05	16012914	TOL E0285	



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 Start a new page for each QC period. Document All Maintenance Tasks In Element LIMS

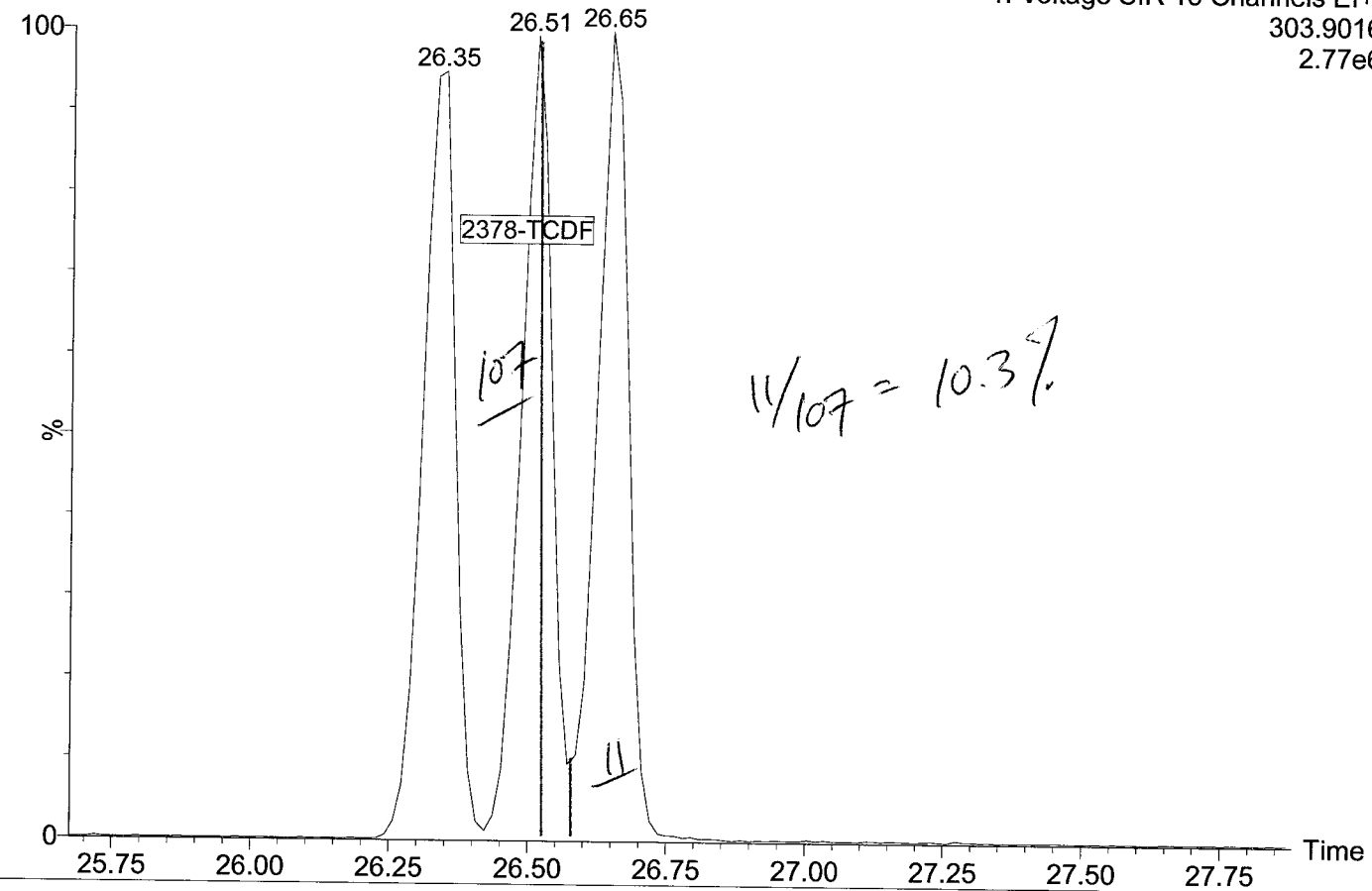
16012903

1: Voltage SIR 15 Channels EI+
319.8965
2.72e6



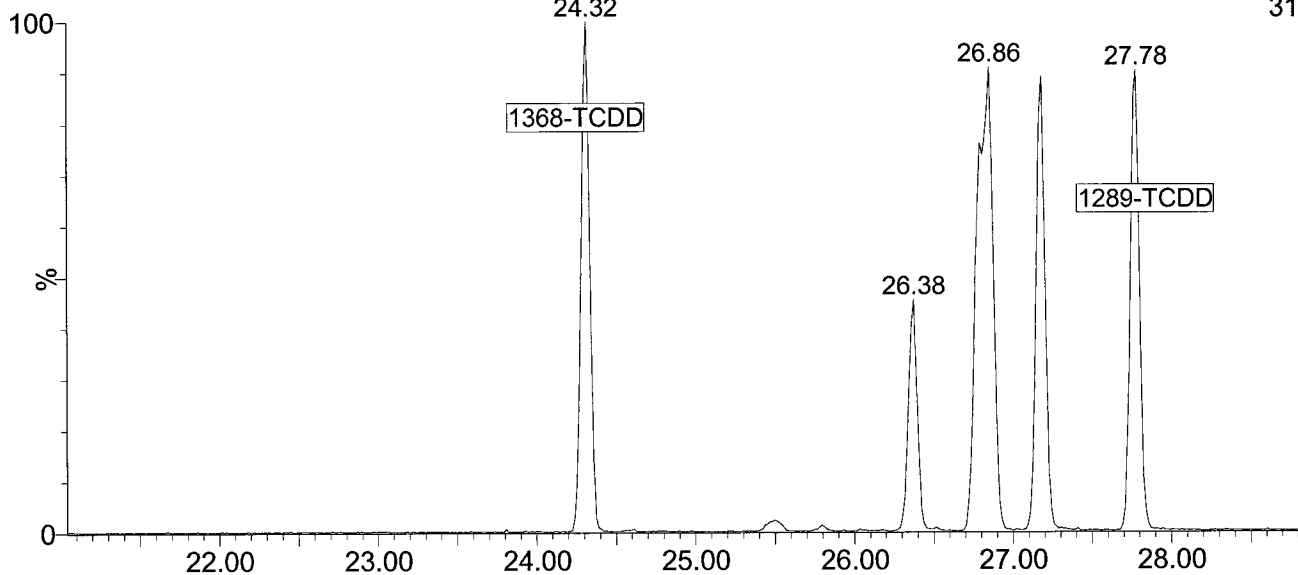
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303.9016
2.77e6



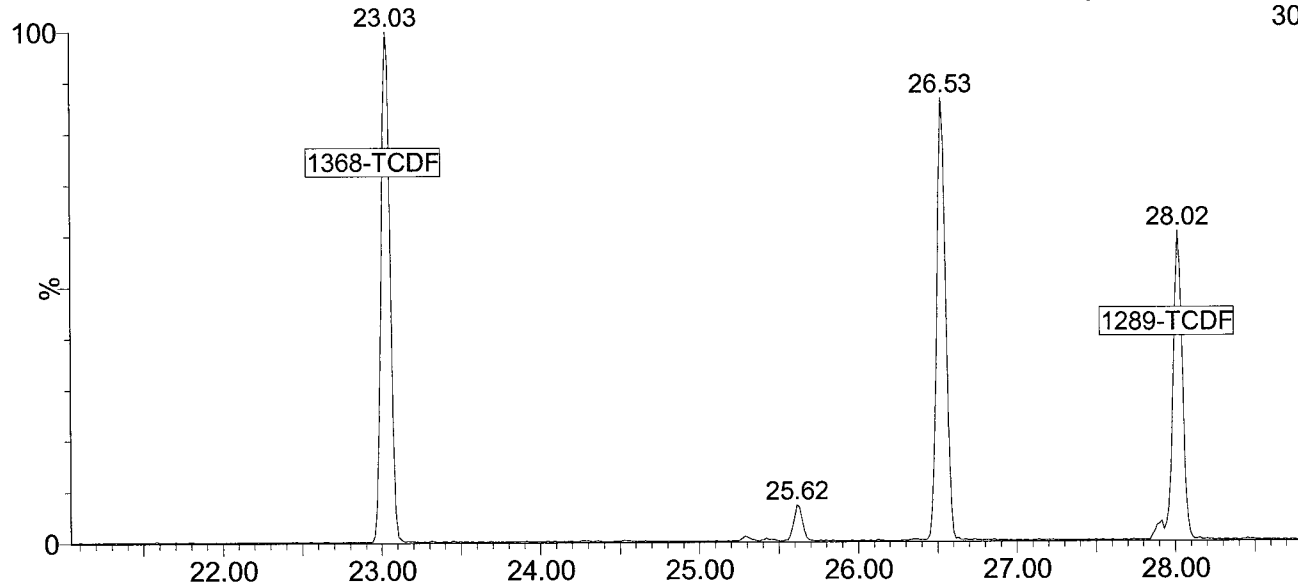
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1: Voltage SIR 15 Channels EI+
319.8965
2.09e6



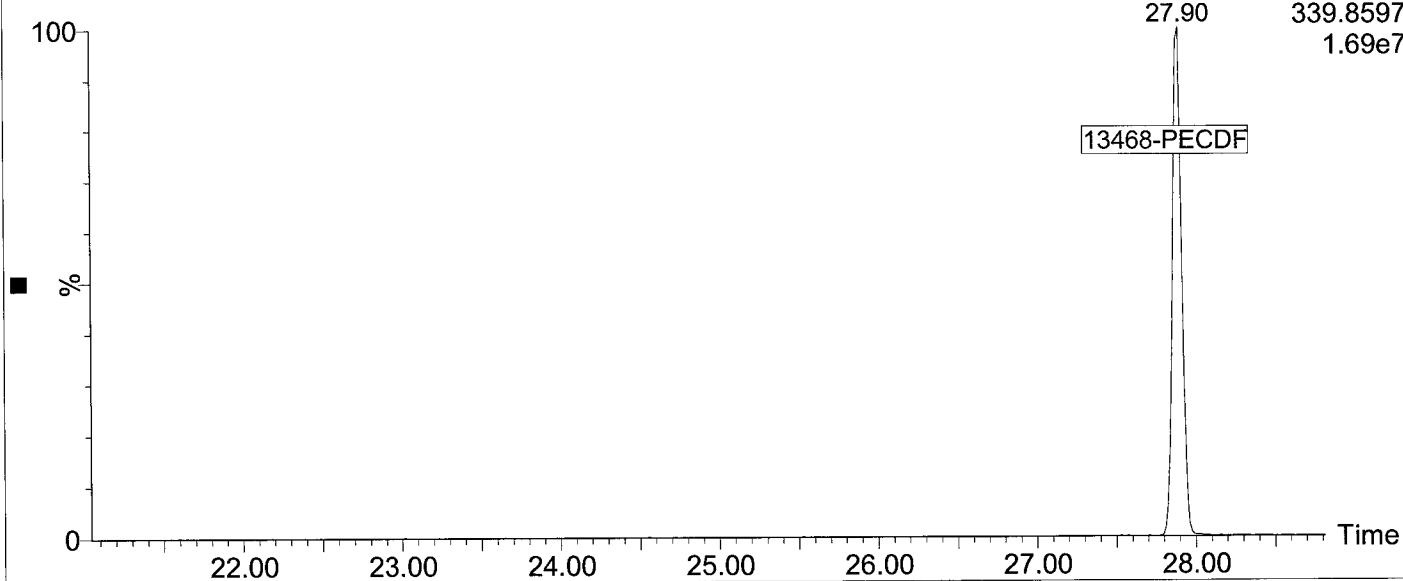
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303.9016
2.60e6



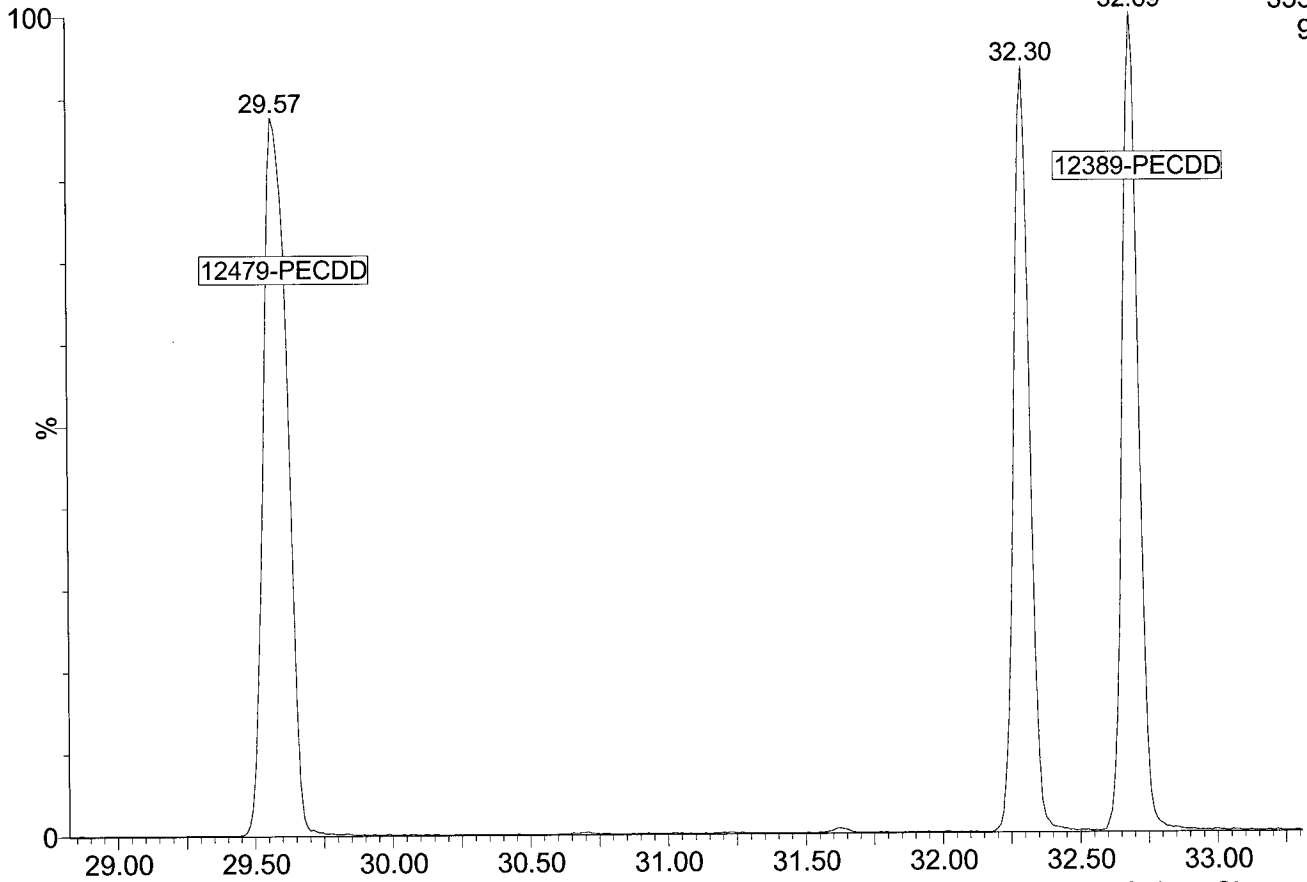
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1: Voltage SIR 15 Channels EI+
27.90 339.8597
1.69e7



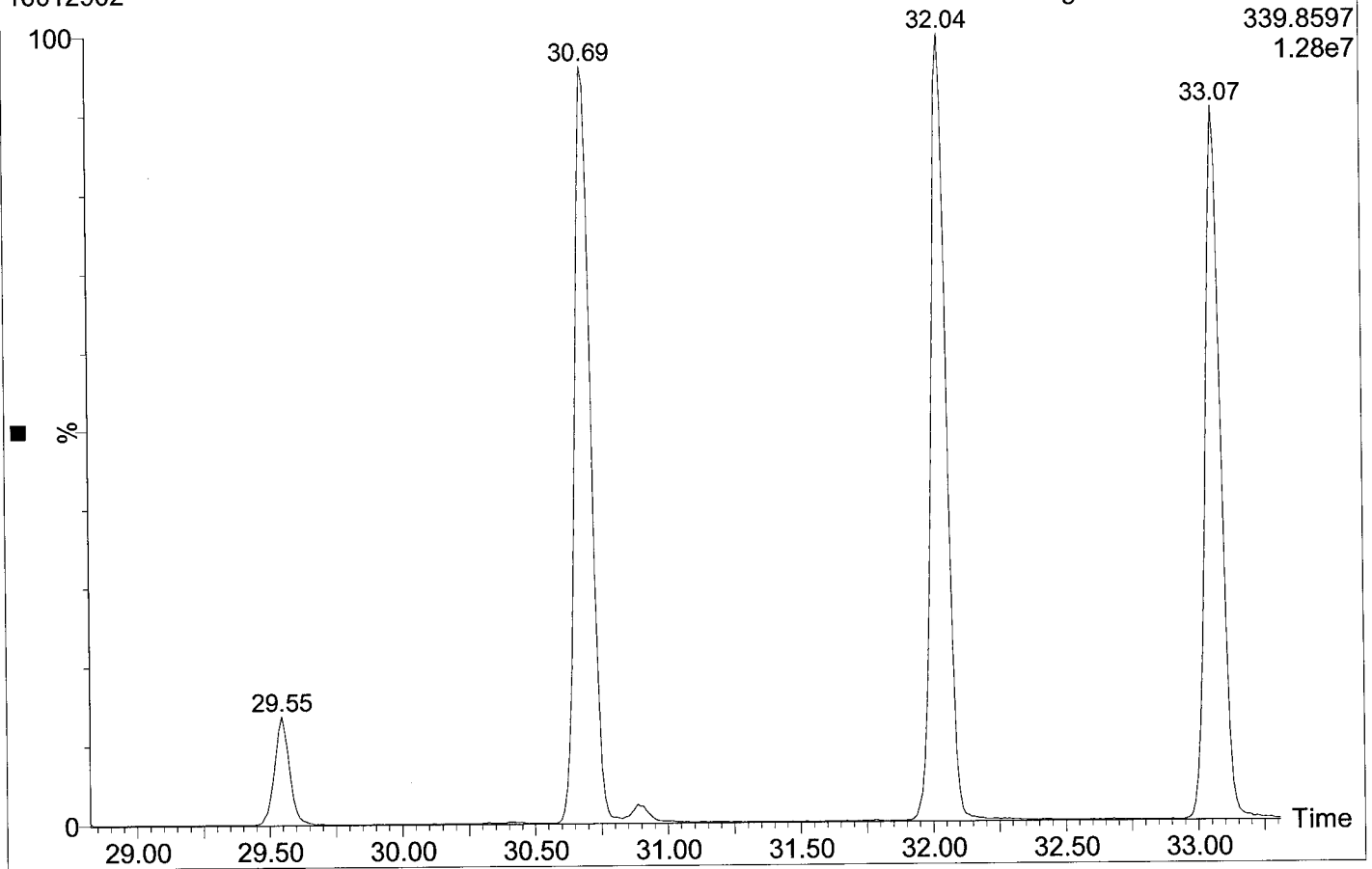
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2: Voltage SIR 11 Channels EI+
355.8546
9.71e6



16012902

2: Voltage SIR 11 Channels EI+
339.8597
1.28e7

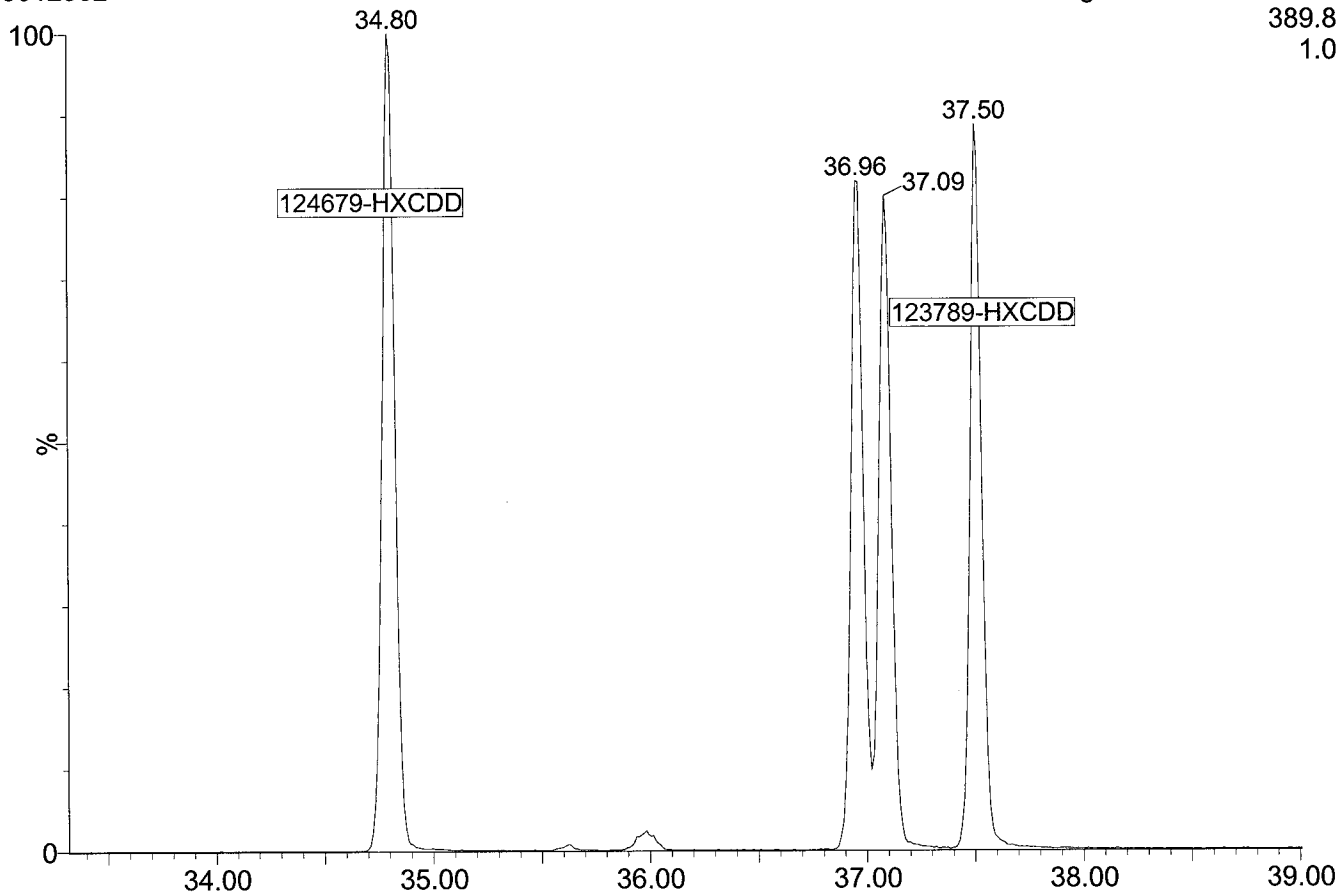


16012902

3: Voltage SIR 11 Channels EI+

389.8157

1.01e7

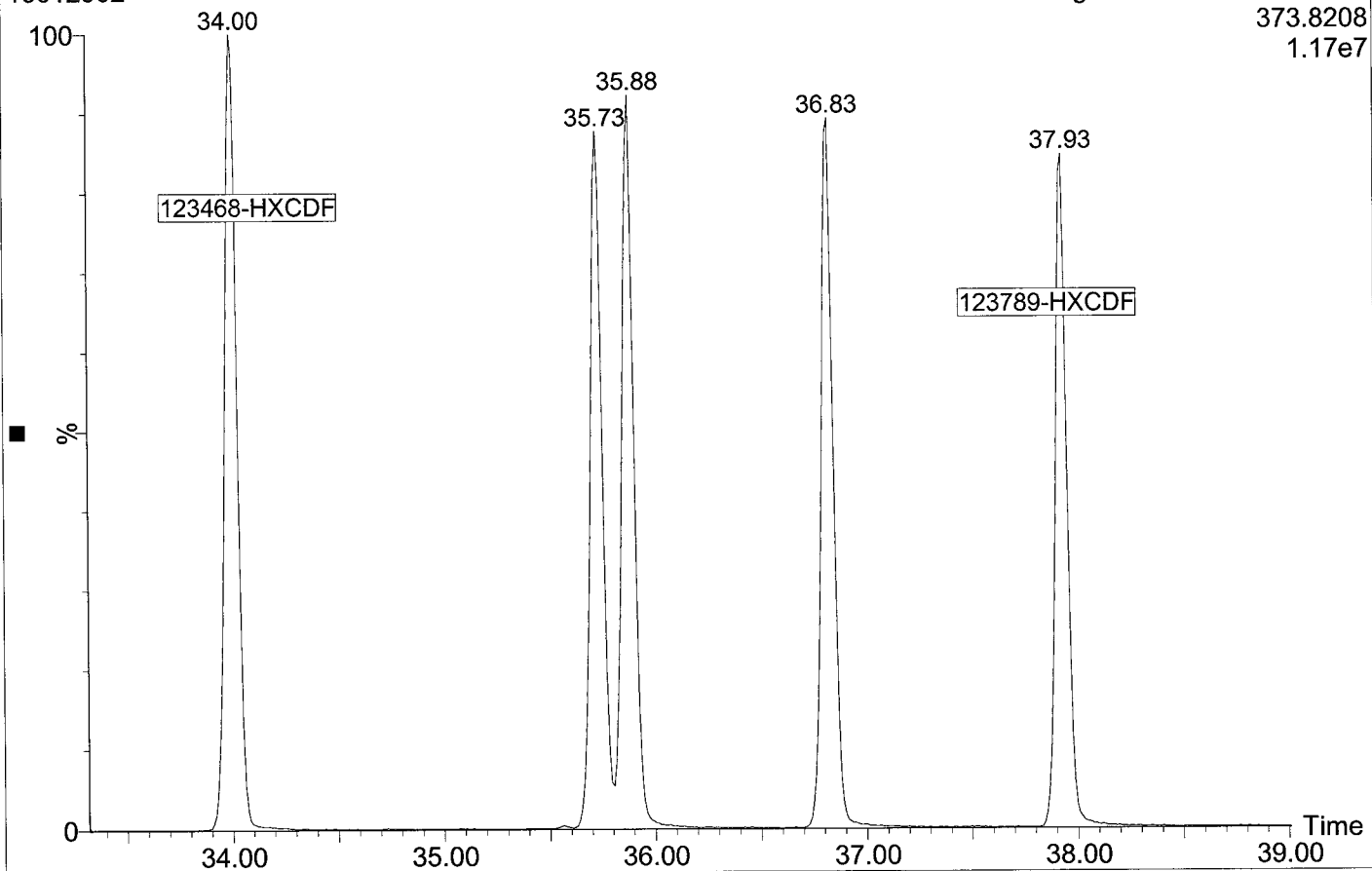


16012902

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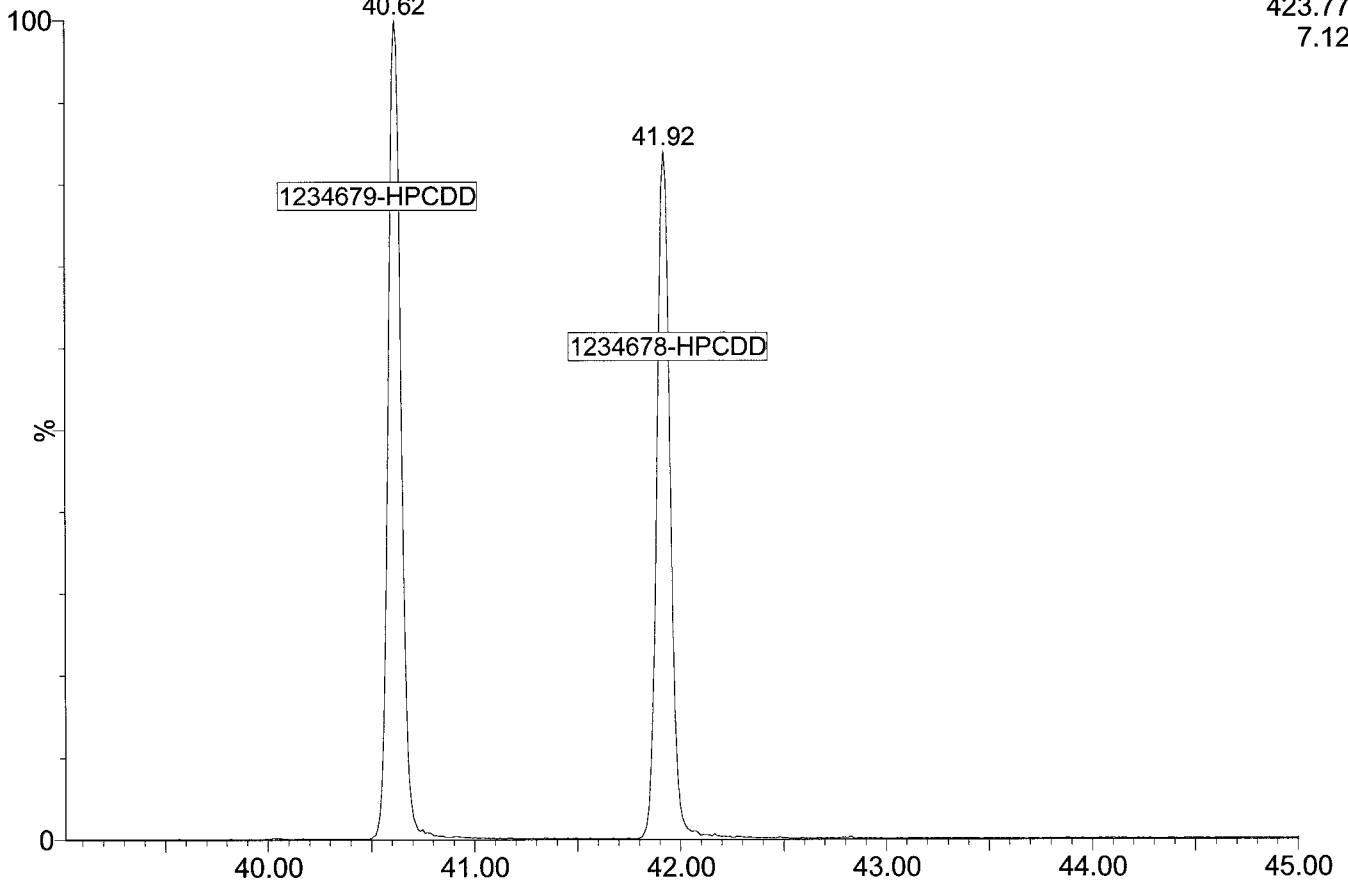
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1.17e7



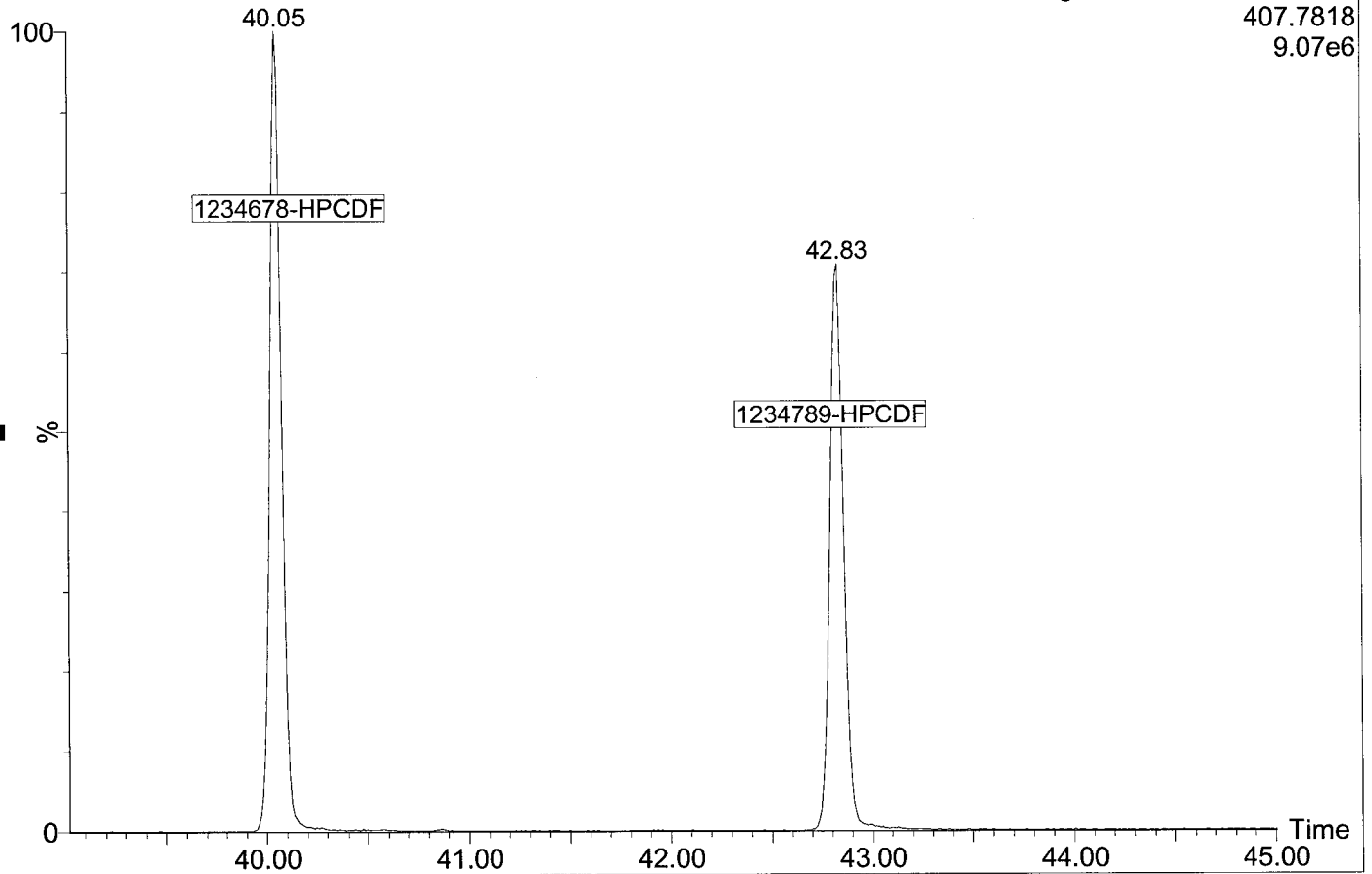
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7.12e6



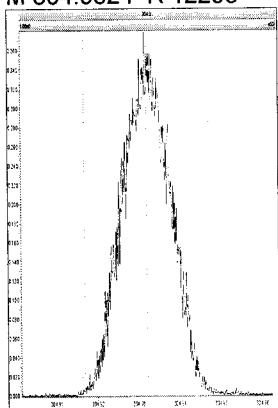
16012902

4: Voltage SIR 11 Channels EI+
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9.07e6

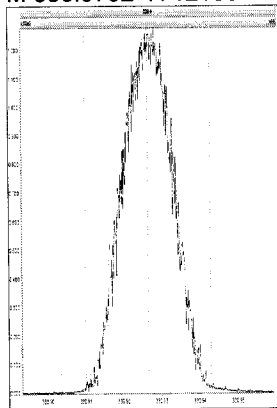


Printed: Friday, January 29, 2016 10:55:47 Pacific Standard Time

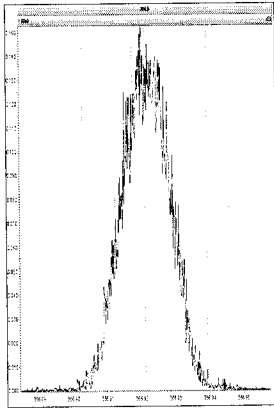
M 304.9824 R 12293



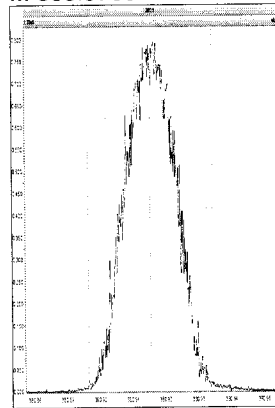
M 330.9792 R 12136



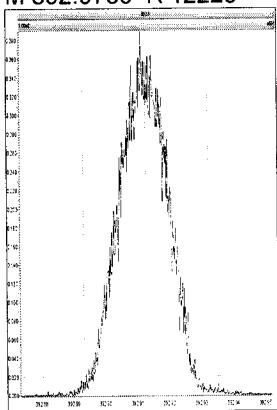
M 366.9792 R 12109



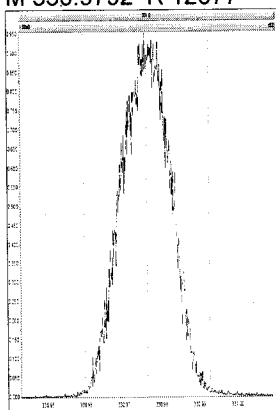
M 380.9760 R 12325



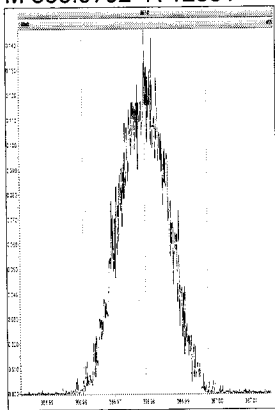
M 392.9760 R 12225



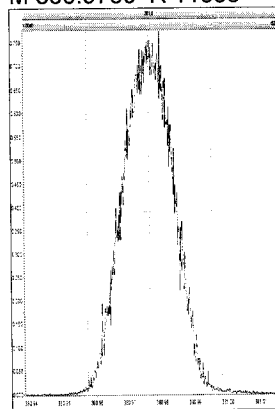
M 330.9792 R 12077



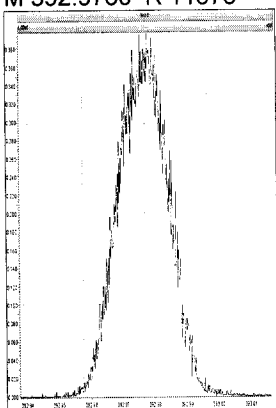
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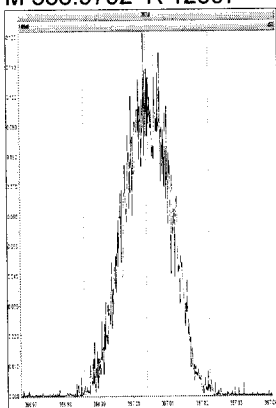
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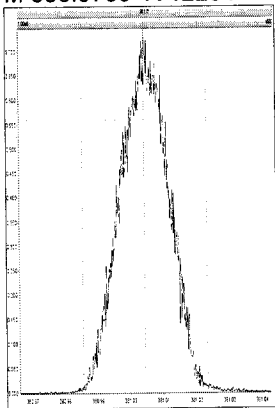
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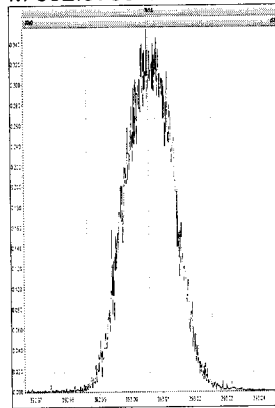
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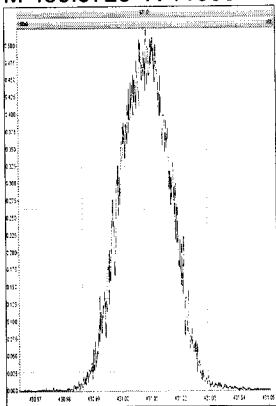
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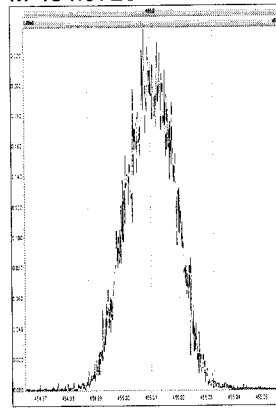
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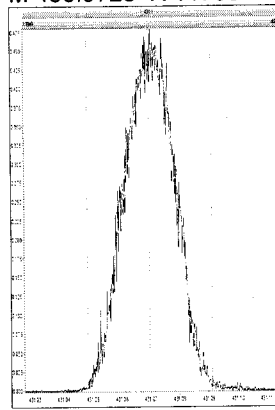
M 430.9728 R 11600



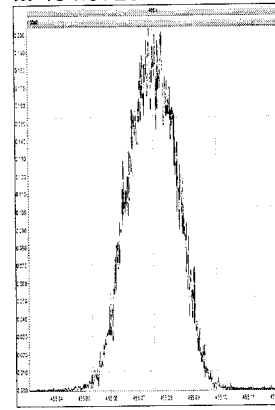
M 454.9728 R 12383



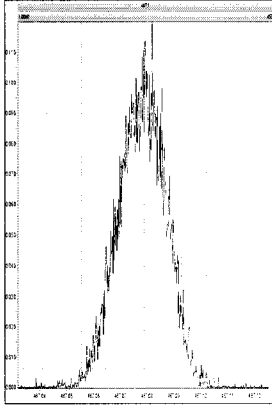
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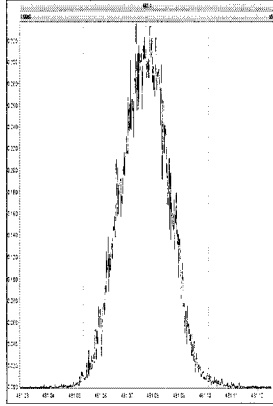
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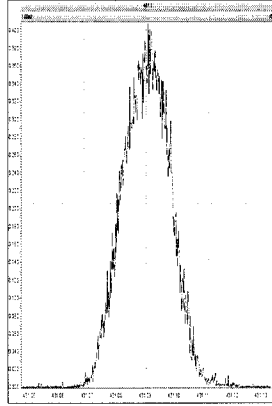
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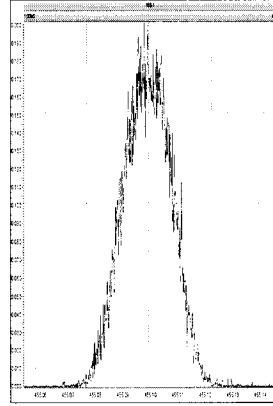
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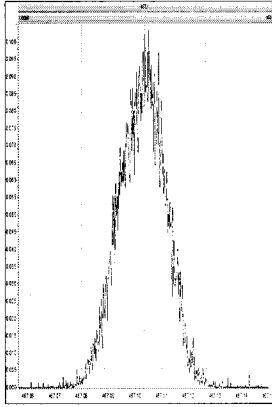
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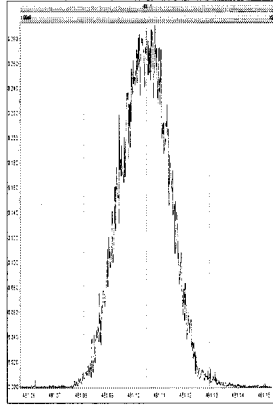
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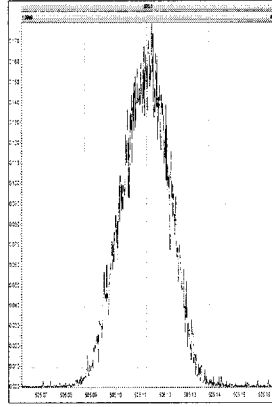
M 466.9728 R 12468



M 480.9696 R 12225



M 504.9696 R 11585



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld
 Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
 Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

Method: P:\DIOXIN8290.PRO\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.527	1.001	1.46e5	2.10e5	0.827	0.694	0.770	953	1927	2.07e6	2.95e6	2167.7	NO	10.385	10.385
12378-PeCDF	30.687	1.000	8.28e5	5.74e5	0.824	1.442	1.550	3099	2347	1.16e7	8.14e6	3747.1	NO	51.360	51.360
23478-PeCDF	32.035	1.001	8.42e5	5.77e5	0.850	1.460	1.550	3099	2347	1.22e7	8.35e6	3946.4	NO	52.160	52.160
123478-HxCDF	35.729	1.001	6.76e5	5.82e5	0.973	1.161	1.240	2567	2779	9.81e6	8.40e6	3821.9	NO	52.118	52.118
234678-HxCDF	36.825	1.001	6.77e5	5.88e5	1.025	1.152	1.240	2567	2779	9.81e6	8.48e6	3823.1	NO	52.701	52.701
123678-HxCDF	35.883	1.001	6.89e5	5.94e5	0.953	1.161	1.240	2567	2779	1.01e7	8.51e6	3917.7	NO	52.293	52.293
123789-HxCDF	37.932	1.001	6.00e5	5.26e5	0.956	1.140	1.240	2567	2779	9.30e6	7.91e6	3624.8	NO	49.178	49.178
1234678-HpCDF	40.048	1.000	5.93e5	6.25e5	1.153	0.950	1.050	2442	2199	8.60e6	8.90e6	3522.5	NO	51.766	51.766
1234789-HpCDF	42.832	1.000	4.91e5	5.07e5	1.131	0.968	1.050	2442	2199	6.12e6	6.16e6	2506.1	NO	52.504	52.504
OCDF	48.322	1.006	8.02e5	9.44e5	1.023	0.850	0.890	1681	1576	7.74e6	9.24e6	4603.5	NO	105.708	105.708
2378-TCDD	27.184	1.001	1.21e5	1.58e5	1.023	0.769	0.770	1250	816	1.70e6	2.18e6	1359.8	NO	10.120	10.120
12378-PeCDD	32.298	1.001	6.03e5	3.88e5	0.939	1.556	1.550	2555	2051	8.65e6	5.54e6	3372.0	NO	51.736	51.736
123478-HxCDD	36.957	1.000	5.47e5	4.44e5	0.963	1.233	1.240	2365	1819	7.96e6	6.48e6	3365.5	NO	51.015	51.015
123678-HxCDD	37.089	1.000	5.32e5	4.31e5	0.894	1.235	1.240	2365	1819	7.66e6	6.20e6	3241.1	NO	50.748	50.748
123789-HxCDD	37.505	1.012	5.48e5	4.42e5	0.900	1.239	1.240	2365	1819	8.39e6	6.84e6	3549.7	NO	53.141	53.141
1234678-HpCDD	41.922	1.000	4.53e5	4.38e5	0.964	1.035	1.050	1702	1618	5.82e6	5.62e6	3421.9	NO	52.134	52.134
OCDD	48.044	1.000	7.57e5	8.45e5	0.969	0.896	0.890	1707	1285	7.57e6	8.49e6	4432.7	NO	102.398	102.398
13C-2378-TCDF	26.511	1.006	1.80e6	2.33e6	1.502	0.774	0.770	5956	3218	2.56e7	3.30e7	4294.3	NO	105.550	105.550
13C-12378-PeCDF	30.676	1.164	2.02e6	1.29e6	1.215	1.572	1.550	2736	2032	2.88e7	1.84e7	10530.8	NO	104.449	104.449
13C-23478-PeCDF	32.013	1.215	1.95e6	1.25e6	1.181	1.569	1.550	2736	2032	2.79e7	1.79e7	10183.4	NO	103.829	103.829
13C-123478-HxCDF	35.707	0.952	8.43e5	1.64e6	1.246	0.515	0.510	2966	2995	1.20e7	2.36e7	4043.6	NO	102.315	102.315
13C-123678-HxCDF	35.861	0.956	8.78e5	1.70e6	1.375	0.517	0.510	2966	2995	1.27e7	2.46e7	4282.9	NO	96.197	96.197
13C-234678-HxCDF	36.804	0.982	8.00e5	1.54e6	1.186	0.518	0.510	2966	2995	1.18e7	2.27e7	3983.7	NO	101.471	101.471
13C-123789-HxCDF	37.910	1.011	8.17e5	1.58e6	1.135	0.518	0.510	2966	2995	1.27e7	2.43e7	4280.2	NO	108.446	108.446
13C-1234678-HpCDF	40.037	1.068	6.29e5	1.41e6	1.020	0.446	0.440	1817	2176	9.08e6	2.02e7	4996.5	NO	102.691	102.691
13C-123478-HpCDF	42.810	1.142	5.25e5	1.16e6	0.824	0.453	0.440	1817	2176	6.43e6	1.41e7	3537.7	NO	104.888	104.888
13C-1234-TCDD	26.347	0.000	1.15e6	1.46e6	1.000	0.789	0.770	4132	1668	1.62e7	2.06e7	3931.5	NO	100.000	100.000
13C-2378-TCDD	27.154	1.031	1.19e6	1.51e6	0.983	0.789	0.770	4132	1668	1.62e7	2.06e7	4002.2	NO	105.023	105.023
13C-12378-PeCDD	32.276	1.225	1.25e6	7.90e5	0.787	1.583	1.550	1324	1008	1.80e7	1.14e7	13622.5	NO	99.312	99.312
13C-123478-HxCDD	36.946	0.985	1.14e6	8.76e5	1.031	1.301	1.240	2247	2489	1.65e7	1.29e7	7341.4	NO	100.512	100.512
13C-123678-HxCDD	37.077	0.989	1.17e6	9.51e5	1.137	1.232	1.240	2247	2489	1.68e7	1.33e7	7473.2	NO	95.992	95.992
13C-1234678-HpCDD	41.900	1.117	9.14e5	8.58e5	0.892	1.065	1.050	1840	2247	1.17e7	1.11e7	6383.2	NO	102.058	102.058
13C-OCDD	48.026	1.281	1.51e6	1.72e6	0.852	0.881	0.890	3075	2124	1.50e7	1.70e7	4885.5	NO	194.819	194.819

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld

Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time

Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	Pg
13C-123789-HxCDD	37.494	0.000	1.08e6	8.65e5	1.000	1.249	1.240	2247	2489	1.66e7	1.34e7	7401.1	NO		100.000
Total-tetrafurans			4.40e5		0.827			953		6.23e6					31.583
Total-penta1			1.13e6					825		1.55e7					62.515
Total-pentafurans			2.55e6		0.837			3099		3.66e7					158.262
Total-hexafurans			3.41e6		0.977			2567		5.02e7					266.283
Total-heptafurans			1.09e6		1.142			2442		1.48e7					104.433
Total-Furans			9.43e6		0.971			953		1.31e8					728.799
Total-tetra-dioxins			6.66e5		1.023			1250		8.02e6					55.158
Total-penta-dioxins			2.14e6		0.939			2565		2.64e7					182.852
Total-hexa-dioxins			2.33e6		0.919			2365		3.40e7					221.093
Total-hepta-dioxins			9.71e5		0.964			1702		1.28e7					111.554
Total-Dioxins			6.87e6		0.950			1250		8.87e7					673.055
Total-TEQ			1.63e7					1250		2.20e8		2722.1			1401.854
37CL-2378-TCDD	27.184	1.032	2.94e5		1.091			1489		4.05e6					10.335
FUNCTION1 PFK			1.26e6					1025556		2.04e7					0.000
FUNCTION2 PFK			3.60e4					154702		9.23e5					0.000
FUNCTION3 PFK			2.86e4					686724		1.12e6					0.000
FUNCTION4 PFK			2.63e4					466120		1.11e6					0.000
FUNCTION5 PFK			3.35e5					300885		1.33e7					0.000
FUNCTION1 HXCDPE			6.64e2					746		1.46e4					0.000
FUNCTION1 HPCDPE			1.79e2					811		4.06e3					0.000
FUNCTION2 HPCDPE			1.32e3					930		2.17e4					0.000
FUNCTION3 OCDPE			0.00e0					449		0.00e0					0.000
FUNCTION4 NCDPE			0.00e0					815		0.00e0					0.000
FUNCTION5 DCDPE			0.00e0					514		0.00e0					0.000

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld

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Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

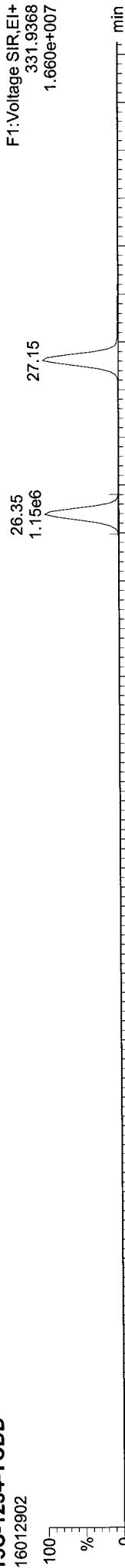
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ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

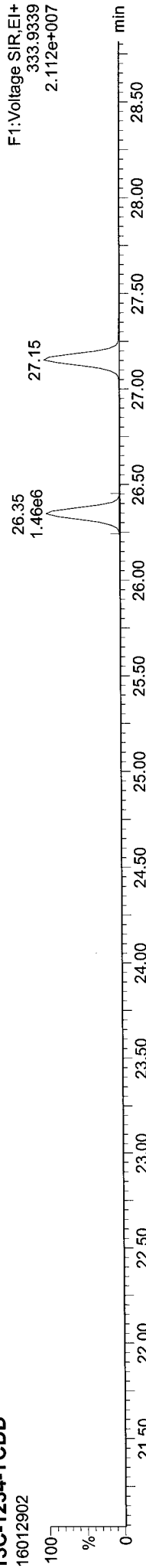
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16012902



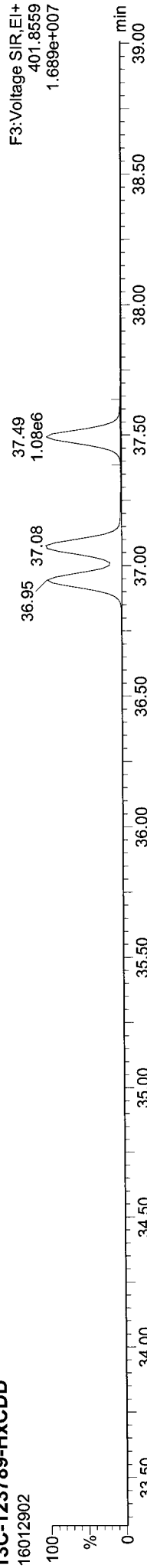
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16012902



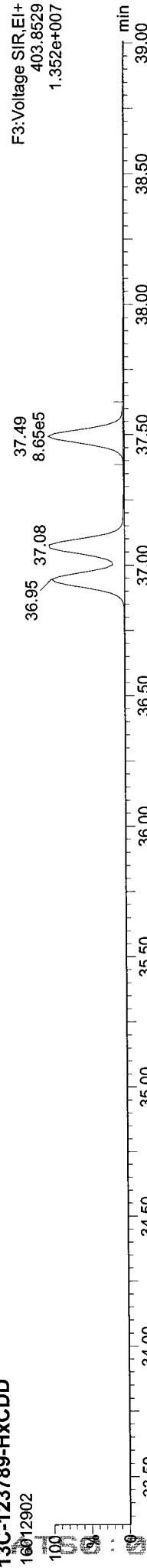
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16012902



13C-123789-HxCDD

16012902



150 20480

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

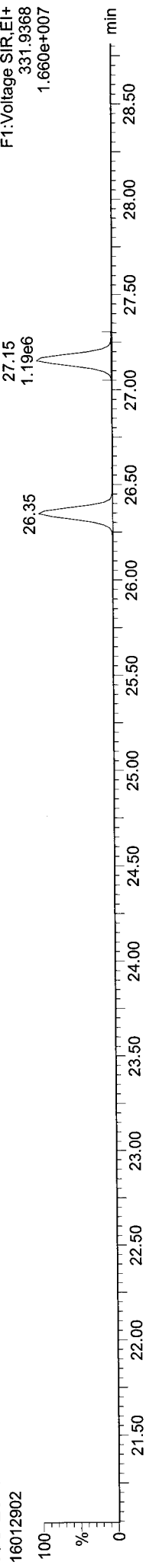
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Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time

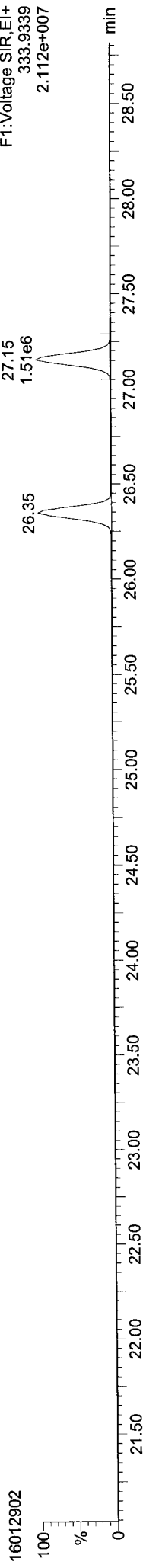
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

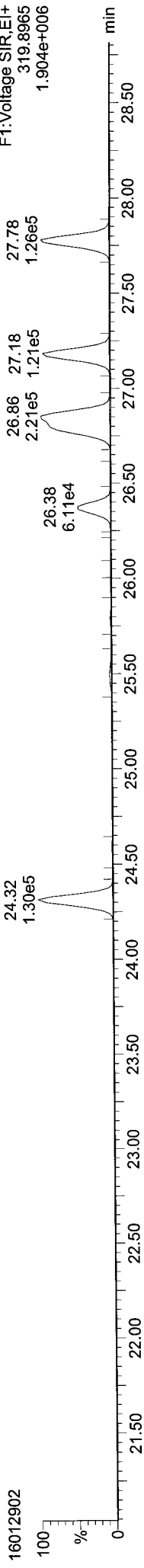
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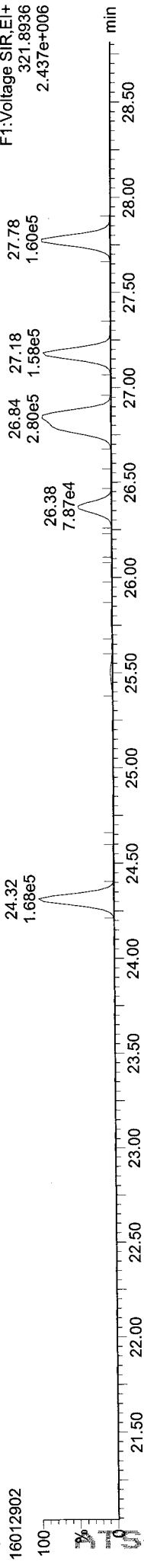
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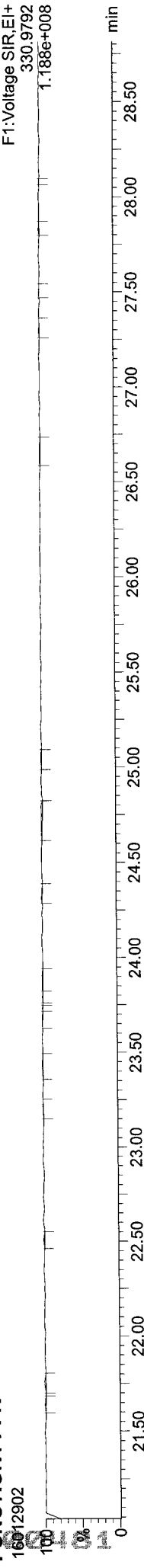
Total-tetradioxins



Total-tetradioxins



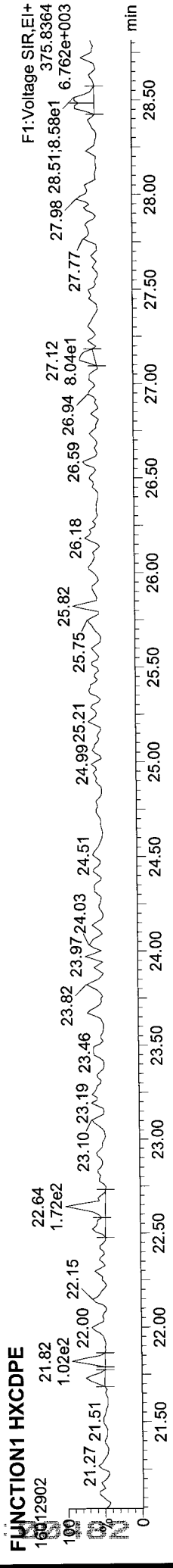
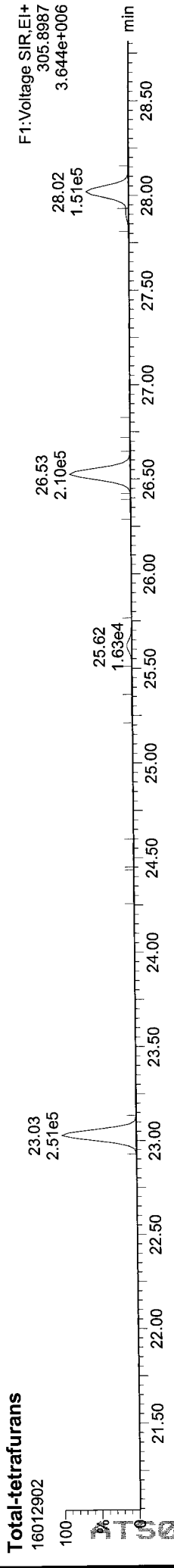
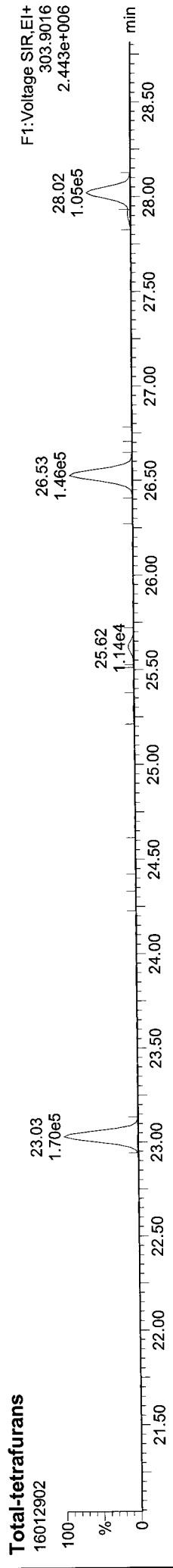
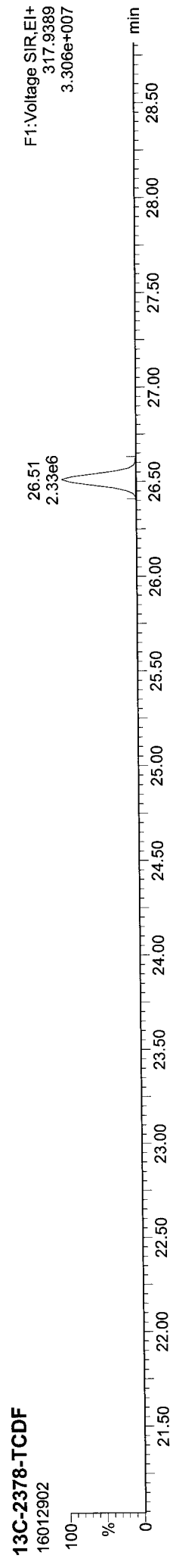
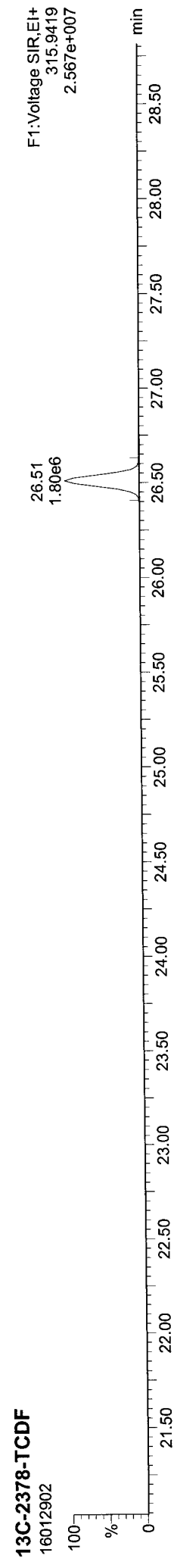
FUNCTION1 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1601290OPEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

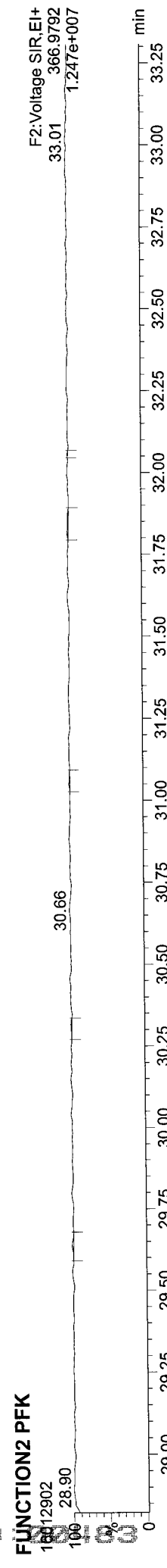
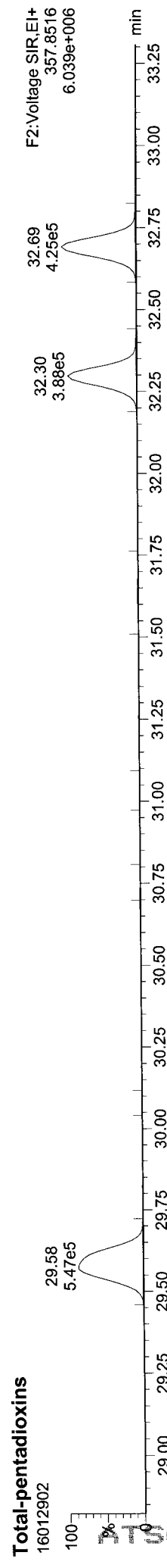
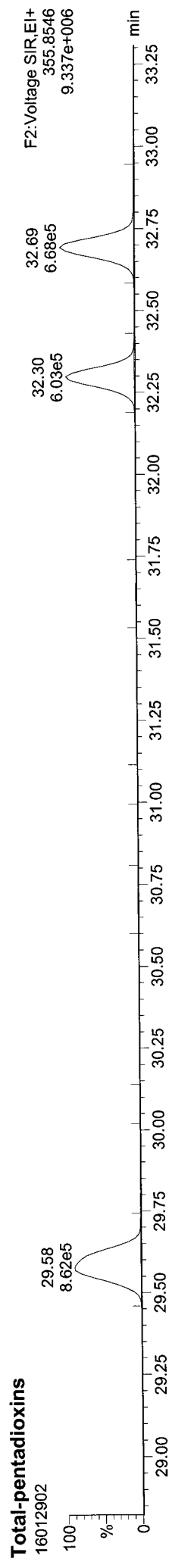
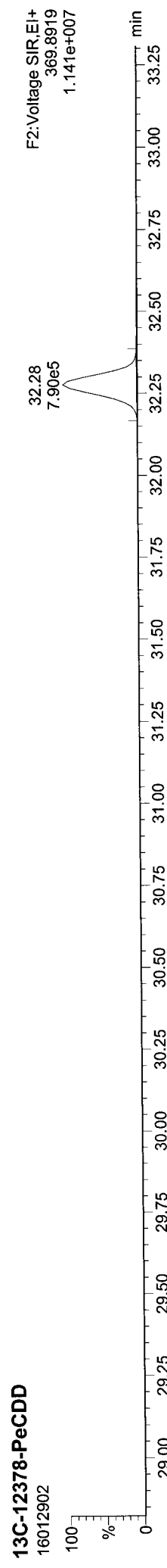
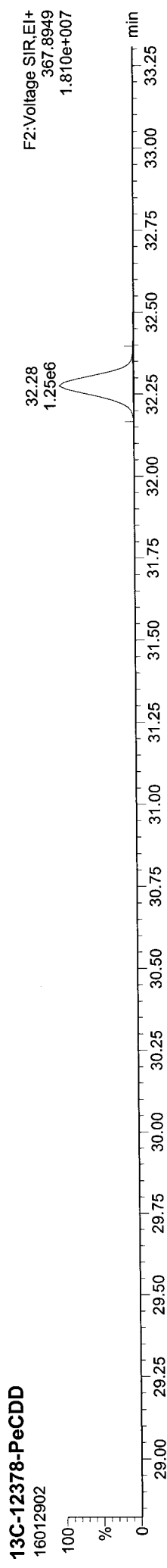
ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1601290OPEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld

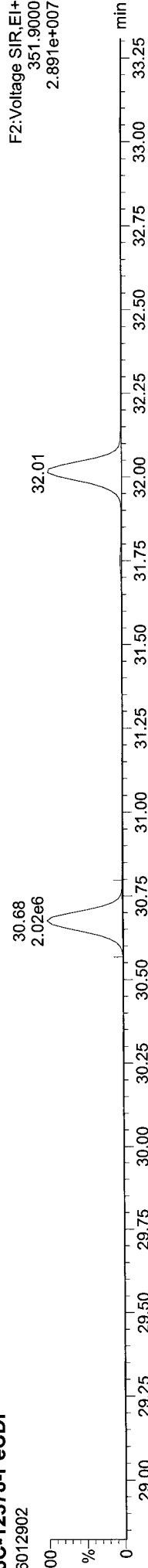
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time

Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

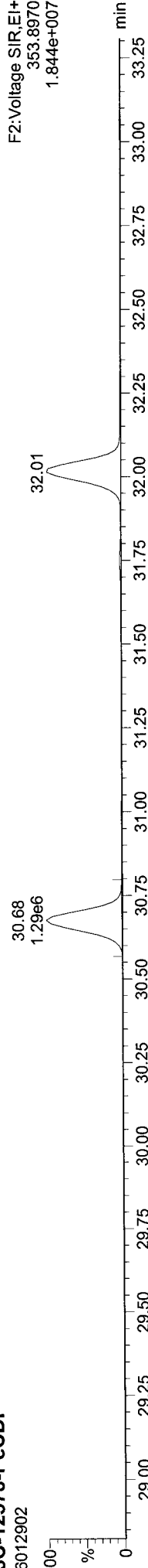
13C-12378-PeCDF

16012902



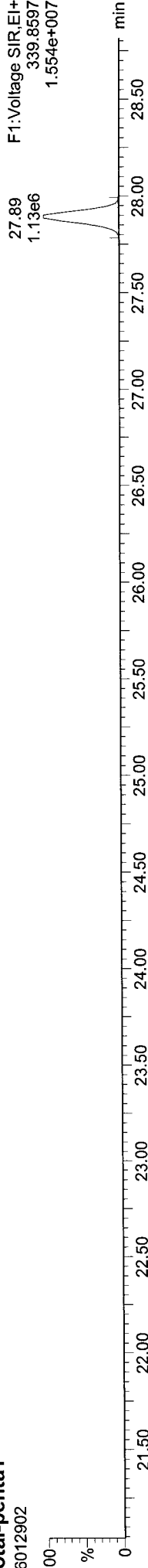
13C-12378-PeCDF

16012902



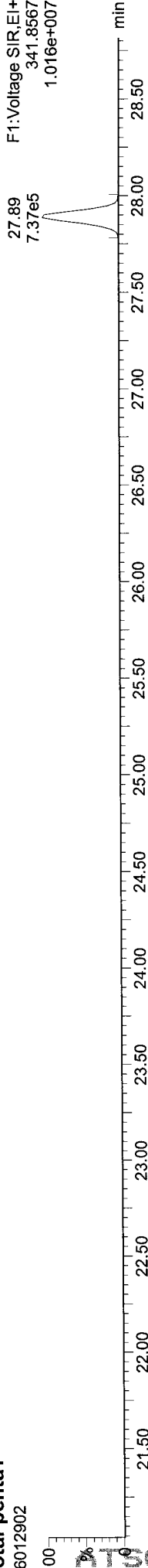
Total-penta1

16012902



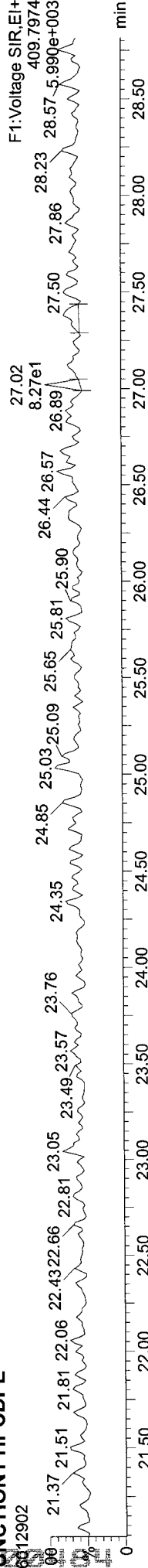
Total-penta1

16012902



FUNCTION1 HPCDPE

16012902



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

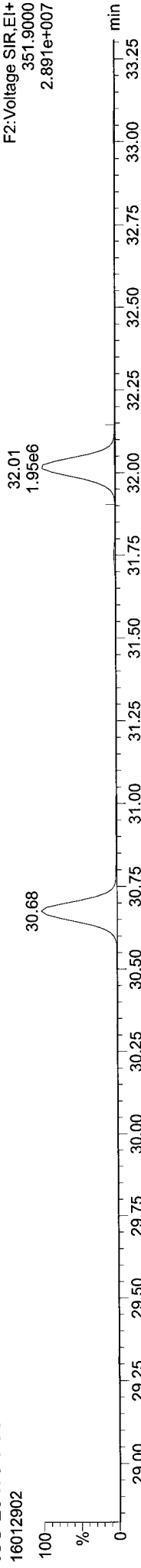
Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld

Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time

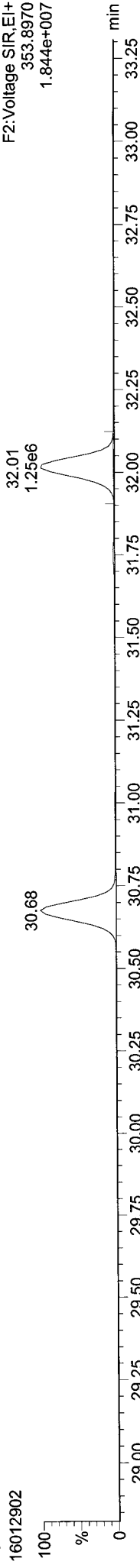
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

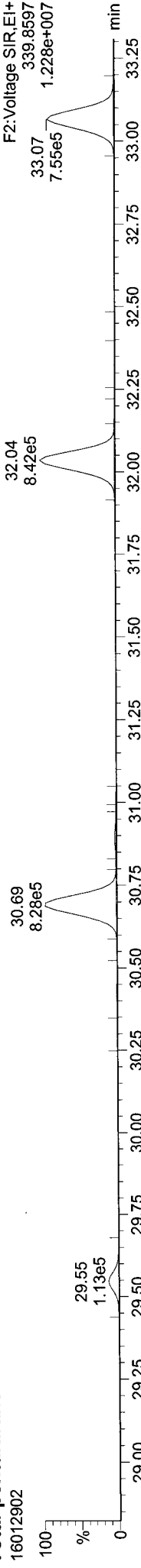
13C-23478-PeCDF



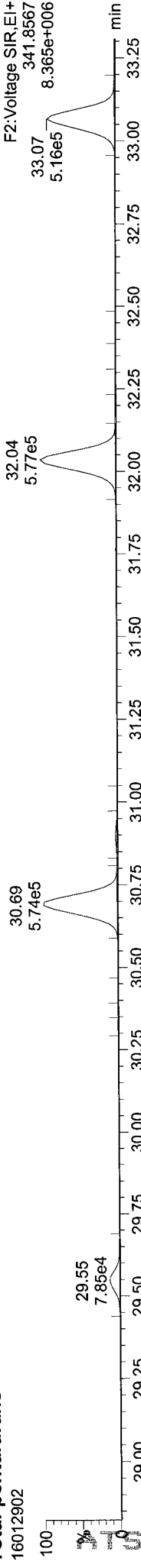
13C-23478-PeCDF



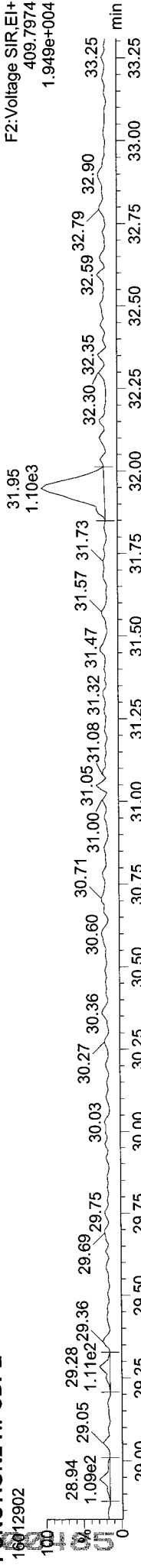
Total-pentafurans



Total-pentafurans

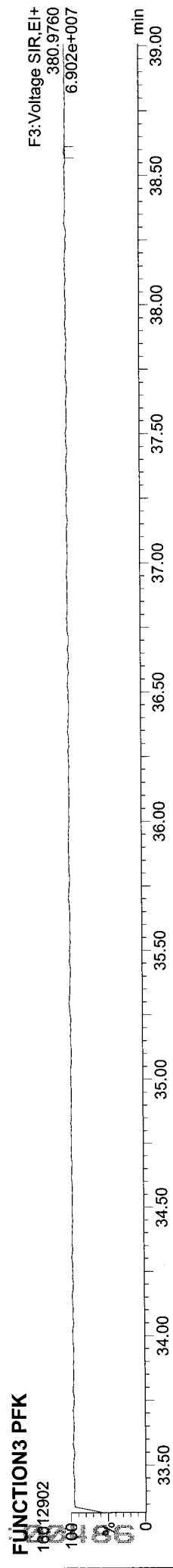
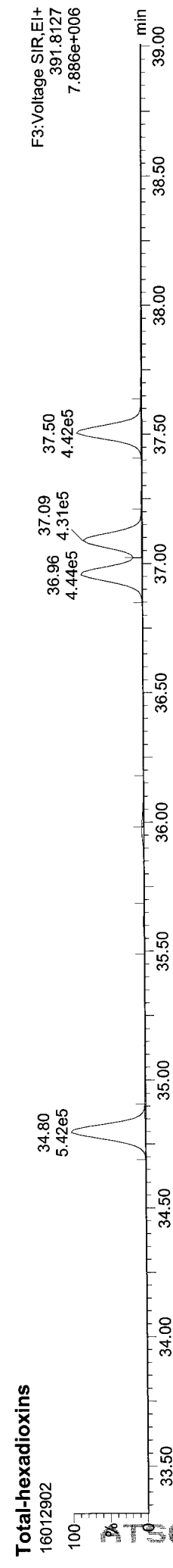
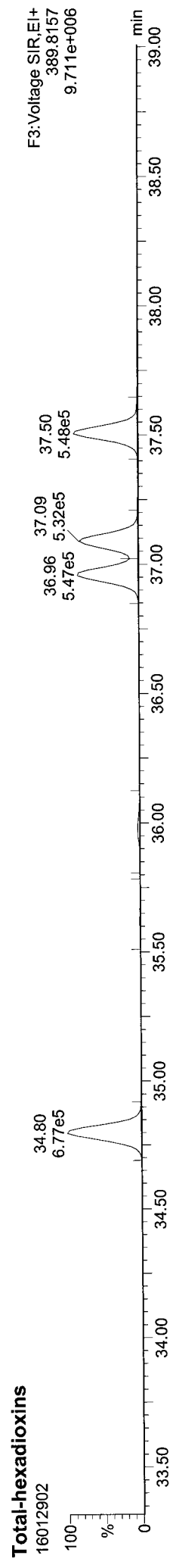
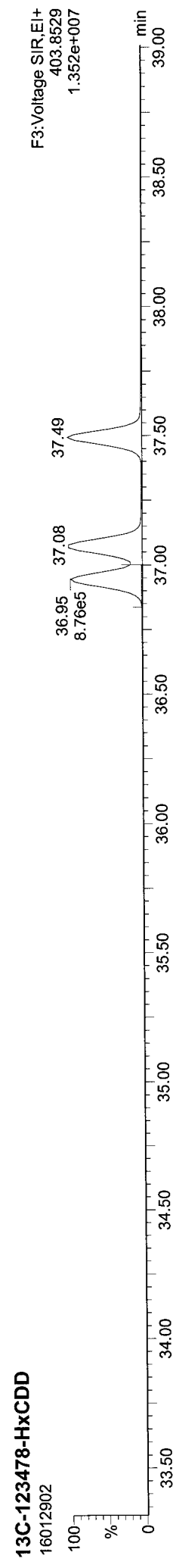
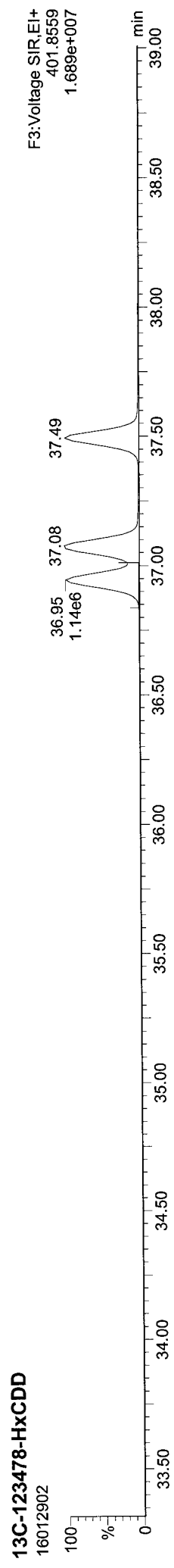


FUNCTION2 HPCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1601290PEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

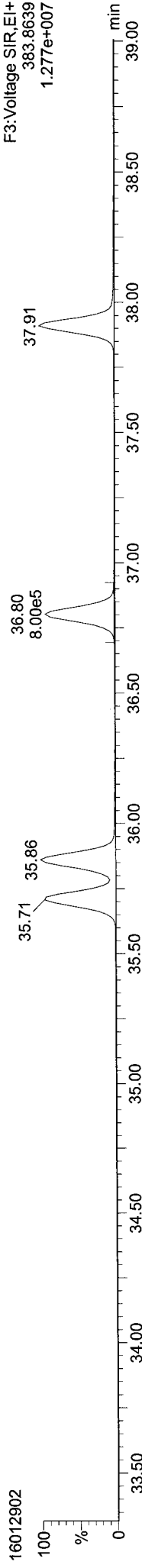
ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk



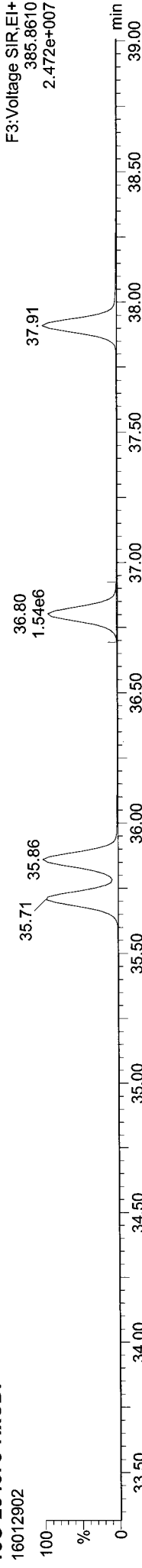
Quantify Sample Report MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

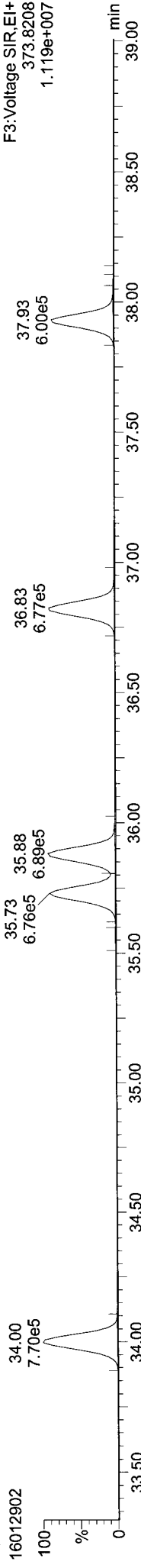
13C-234678-HxCDF



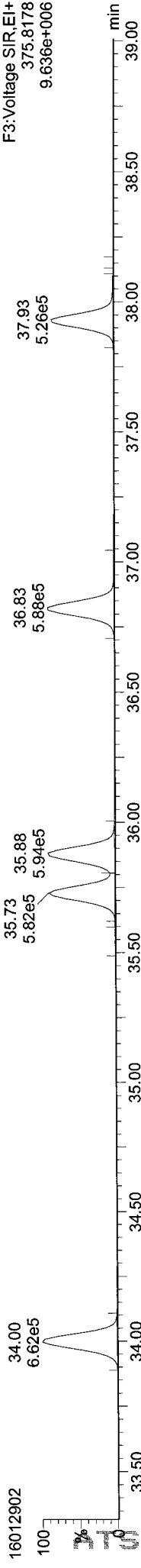
13C-234678-HxCDF



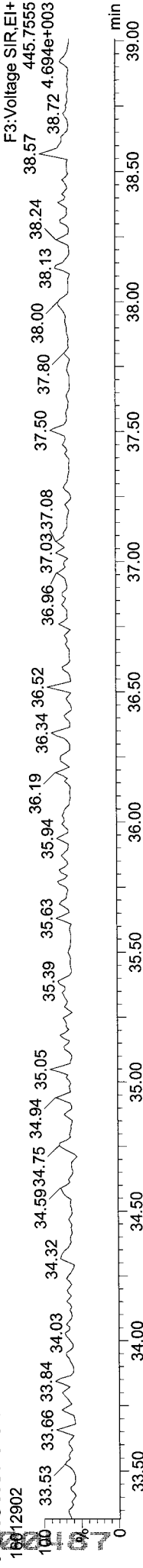
Total-hexafurans



Total-hexafurans



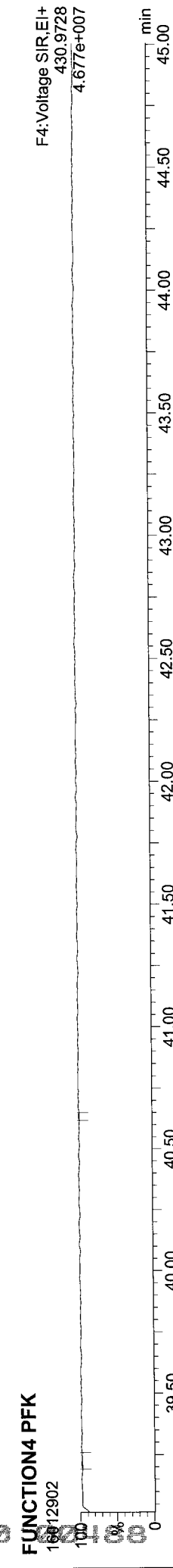
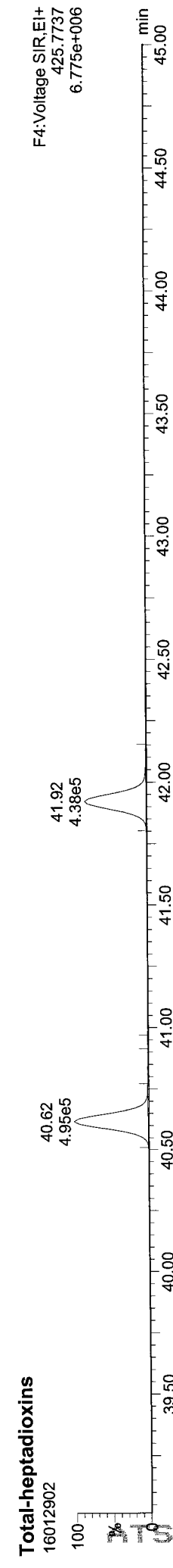
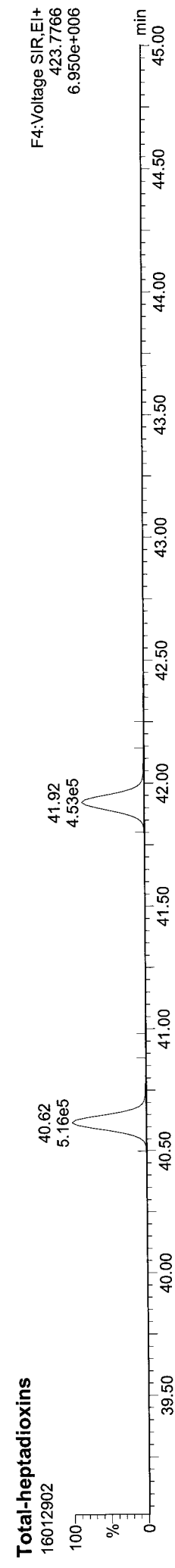
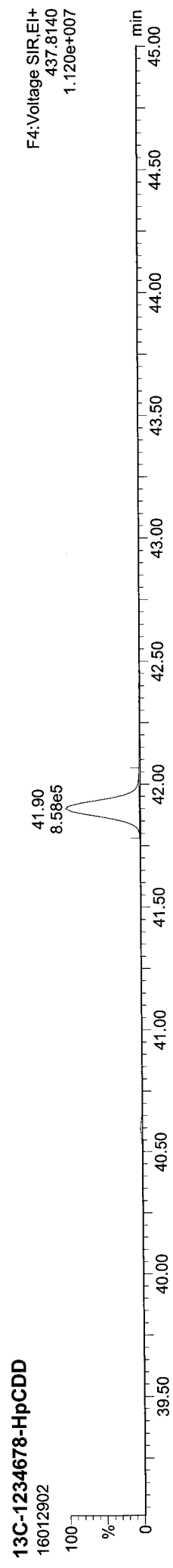
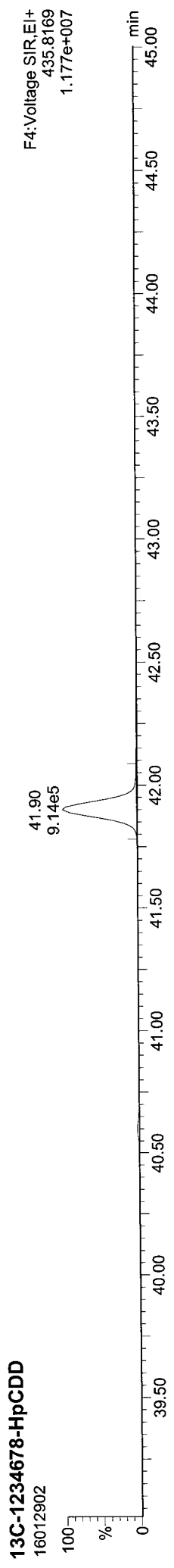
FUNCTION3 OCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

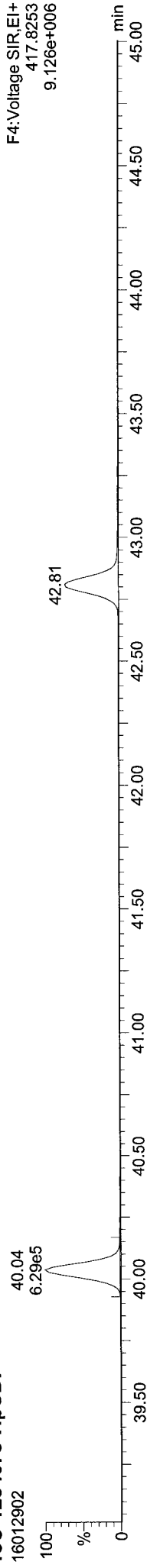
ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk



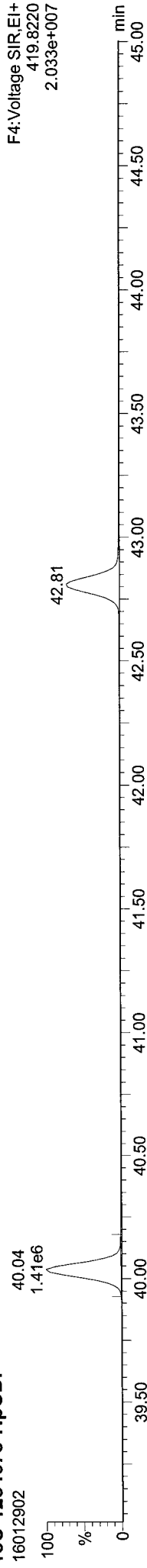
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129OPEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

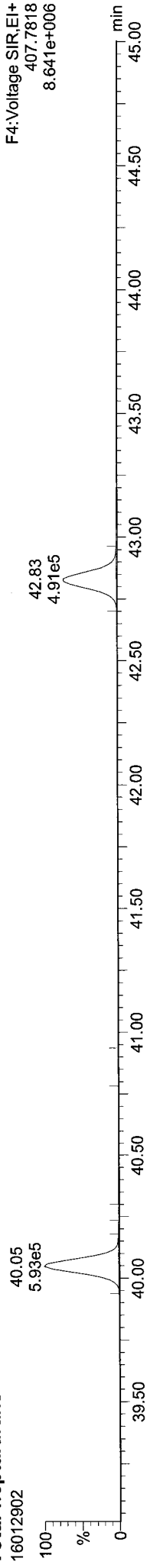
13C-1234678-HpCDF



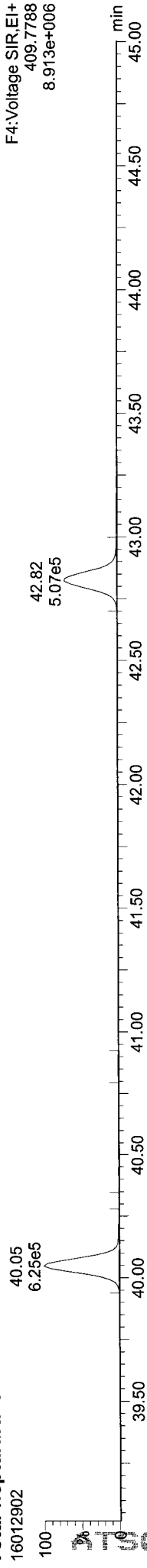
13C-1234678-HpCDF



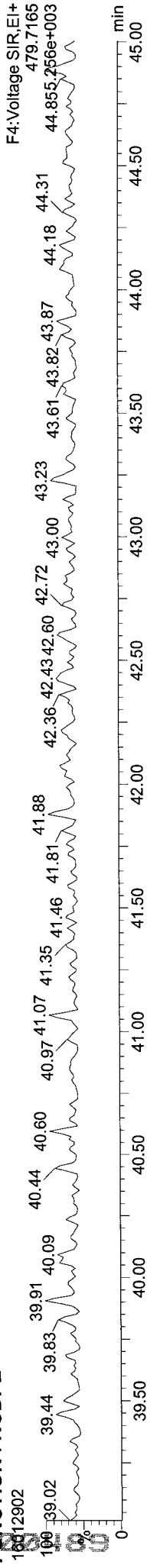
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

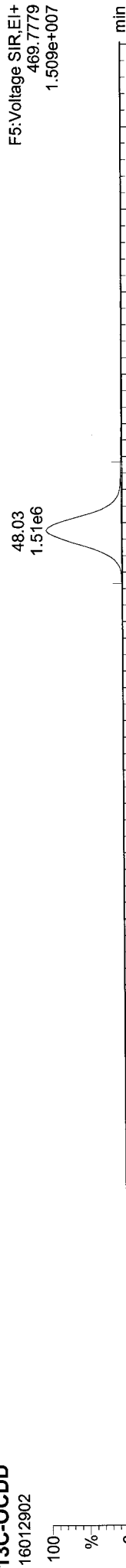


Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\1601290PEN.qld
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time
Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

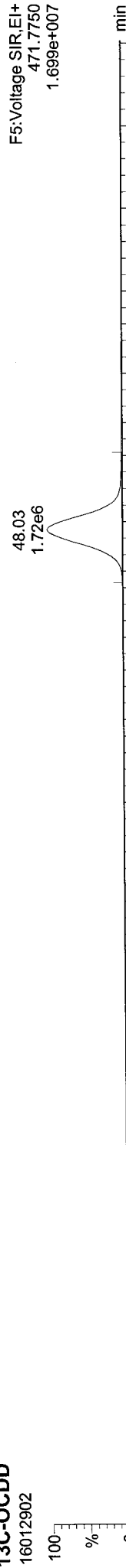
13C-OCDD

16012902



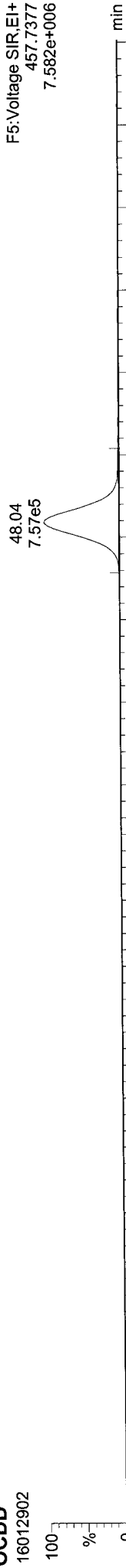
13C-OCDD

16012902



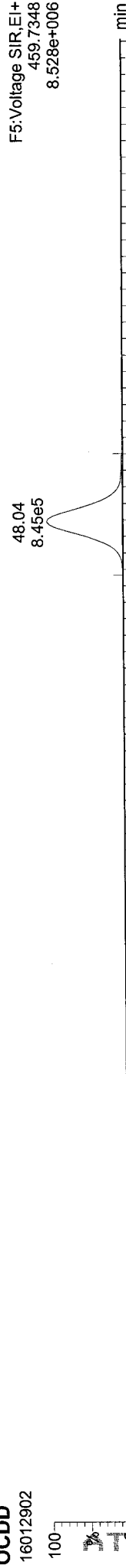
OCDD

16012902



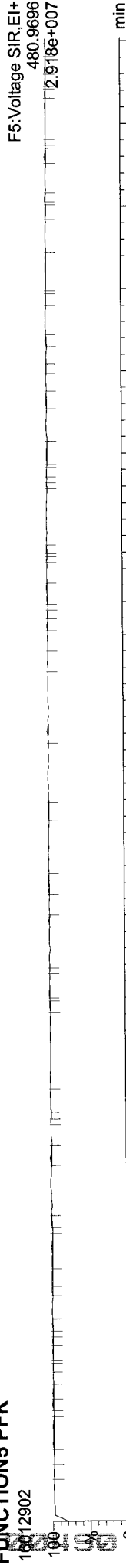
OCDD

16012902



FUNCTION5 PFK

16012902



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\1601290OPEN.qld

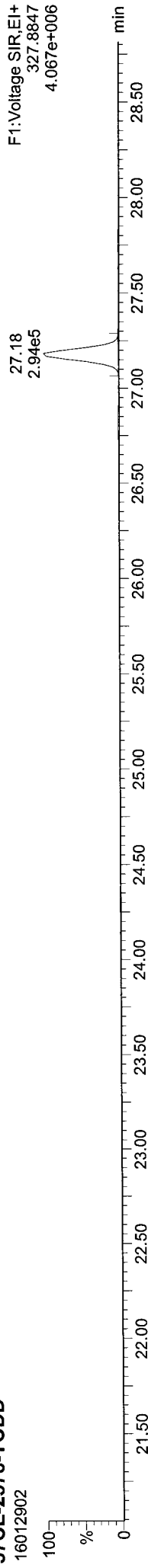
Last Altered: Friday, January 29, 2016 14:11:50 Pacific Standard Time

Printed: Monday, February 01, 2016 14:54:44 Pacific Standard Time

ID: CS3, Name: 16012902, Date: 29-Jan-2016, Time: 10:58:17, Conditions: AUTOSPEC01, User: pk

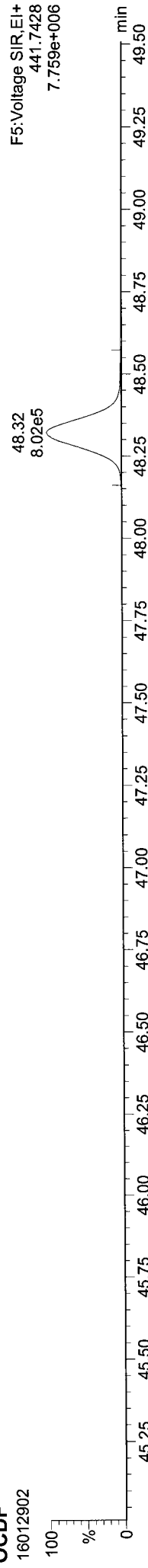
37CL-2378-TCDD

16012902



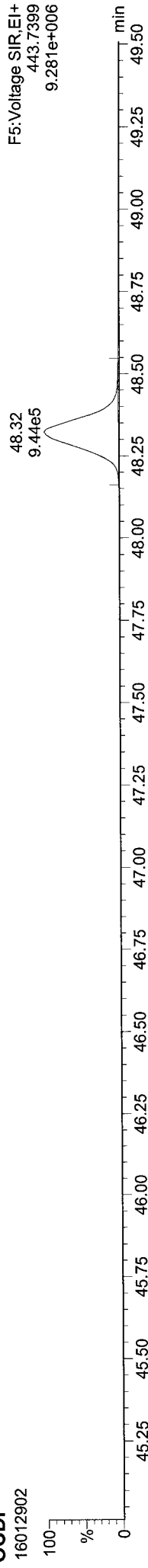
OCDF

16012902



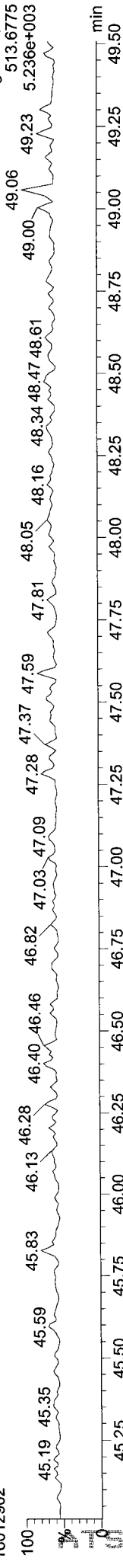
OCDF

16012902



FUNCTION5 DCDPE

16012902



16012902 : 004501

**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50MBT
 Lab.File ID: 16012904
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.019
12378-PeCDD	356/358	0.00			0.022
123478-HxCDD	390/392	0.00			0.024
123678-HxCDD	390/392	0.00			0.025
123789-HxCDD	390/392	0.00			0.025
1234678-HpCDD	424/426	41.96	0.187		
OCDD	458/460	48.10	3.08		
2378-TCDF	304/306	0.00			0.016
12378-PeCDF	340/342	30.70	0.0250	0.0160	
23478-PeCDF	340/342	0.00			0.017
123478-HxCDF	374/376	0.00			0.018
234678-HxCDF	374/376	0.00			0.018
123678-HxCDF	374/376	0.00			0.017
123789-HxCDF	374/376	0.00			0.020
1234678-HpCDF	408/410	40.07	0.0711	0.0530	
1234789-HpCDF	408/410	0.00			0.037
OCDF	442/444	48.36	0.270		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin\1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	30.698	1.000	2.73e2	4.22e2	0.827	0.647	0.770	1090	1376	5.66e3	5.03e3	6.4	YES	0.016	0.025
12378-PeCDF					0.850		1.550	885	1420						
23478-PeCDF					0.973		1.240	1053	1420						
123478-HxCDF					1.025		1.240	1053	1057						
234678-HxCDF					0.953		1.240	1053	1057						
123678-HxCDF					0.956		1.240	1053	1057						
123789-HxCDF					1.153	0.623	1.050	1299	1456	1.11e4	1.47e4	8.6	YES	0.053	0.071
1234678-HpCDF	40.070	1.000	6.70e2	1.08e3	1.131		1.050	1299	1456	1.77e4	2.30e4	19.1	NO	0.270	0.270
1234789-HpCDF					1.023	0.768	0.890	927	1272						
OCDF	48.358	1.006	1.85e3	2.41e3	1.023		0.770	1316	841						
2378-TCDD					0.939		1.550	1550	493						
12378-PeCDD					0.963		1.240	1113	1166						
123478-HxCDD					0.894		1.240	1113	1166						
123678-HxCDD					0.900		1.240	1113	1166						
123789-HxCDD					1.130	1.130	1.050	913	849	2.57e4	1.98e4	28.1	NO	0.187	0.187
1234678-HpCDD	41.955	1.001	1.77e3	1.56e3	0.964		0.890	863	712	2.28e5	2.46e5	264.4	NO	3.081	3.081
OCDD	48.098	1.000	2.22e4	2.38e4	0.969	0.930	0.770	6823	3687	2.43e7	3.11e7	3554.4	NO	95.958	95.958
13C-2378-TCDF	26.526	1.006	1.69e6	2.17e6	1.502	0.779	1.550	3137	2927	2.95e7	1.87e7	9390.7	NO	103.456	103.456
13C-12378-PeCDF	30.698	1.164	2.06e6	1.31e6	1.215	1.575	1.550	3137	2927	2.92e7	1.85e7	9309.4	NO	87.885	87.885
13C-23478-PeCDF	32.035	1.215	2.01e6	1.27e6	1.181	1.583	1.550	3447	4688	1.25e7	2.42e7	3632.5	NO	86.696	86.696
13C-123478-HxCDF	35.729	0.953	8.54e5	1.65e6	1.246	0.518	0.510	3447	4688	1.31e7	2.51e7	3804.7	NO	89.406	89.406
13C-123678-HxCDF	35.882	0.957	9.20e5	1.81e6	1.375	0.509	0.510	3447	4688	1.20e7	2.33e7	3492.2	NO	86.636	86.636
13C-234678-HxCDF	36.814	0.982	8.34e5	1.59e6	1.186	0.524	0.510	3447	4688	1.13e7	2.16e7	3280.1	NO	91.232	91.232
13C-123789-HxCDF	37.932	1.011	7.71e5	1.48e6	1.135	0.522	0.510	3447	4688	8.90e6	1.99e7	3004.2	NO	89.935	89.935
13C-1234678-HpCDF	40.059	1.068	6.50e5	1.48e6	1.020	0.440	0.440	2963	2830	6.14e6	1.39e7	2072.5	NO	100.000	100.000
13C-1234789-HpCDF	42.843	1.142	5.28e5	1.17e6	0.824	0.452	0.440	2963	2830	1.71e7	2.16e7	3755.5	NO	92.103	92.103
13C-1234-TCDD	26.382	0.000	1.18e6	1.50e6	1.000	0.788	0.770	4547	2110	1.50e7	1.90e7	3297.7	NO	100.320	100.320
13C-2378-TCDD	27.169	1.031	1.07e6	1.35e6	0.983	0.794	0.770	4547	2110	1.84e7	1.17e7	16162.3	NO	86.434	86.434
13C-12378-PeCDD	32.298	1.225	1.29e6	8.25e5	0.787	1.567	1.550	1138	2022	1.69e7	1.32e7	7606.7	NO	84.003	84.003
13C-123478-HxCDD	36.957	0.985	1.14e6	8.93e5	1.031	1.281	1.240	2219	1975	1.74e7	1.38e7	7831.6	NO	90.547	90.547
13C-123678-HxCDD	37.088	0.989	1.23e6	9.58e5	1.137	1.280	1.240	2219	1975	1.19e7	1.13e7	4711.6	NO	158.122	158.122
13C-1234678-HpCDD	41.933	1.118	9.57e5	8.90e5	0.892	1.075	1.050	2521	1794	1.40e7	1.58e7	9755.8	NO		
13C-OCDD	48.080	1.282	1.45e6	1.63e6	0.852	0.888	0.890	1433	2144						

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.505	0.000	1.26e6	1.02e6	1.000	1.236	1.240	2219	1975	1.85e7	1.49e7	8329.2	NO		100.000
Total-tetrafurans			0.00e0		0.827			1090		0.00e0					
Total-penta1			0.00e0					651		0.00e0					
Total-pentafurans			2.73e2		0.837			885		5.66e3					0.025
Total-hexafurans			0.00e0		0.977			1053		0.00e0					
Total-heptafurans			1.48e3		1.142			1299		2.13e4					0.143
Total-Furans			3.60e3		0.971			1090		4.47e4					0.439
Total-tetraioxins			0.00e0		1.023			1316		0.00e0					
Total-pentadioxins			2.56e2		0.939			1550		6.28e3					0.019
Total-hexadioxins			8.22e2		0.919			1112		1.65e4					0.062
Total-heptadioxins			3.44e3		0.964			913		4.89e4					0.371
Total-Dioxins			2.68e4		0.950			1316		3.03e5					3.542
Total-TEQ			3.04e4					1316		3.47e5					3.980
37CL-2378-TCDD	27.198	1.032	1.36e6		1.091			1521		1.92e7		12587.0			46.597
FUNCTION1 PFK			1.31e8					806942		4.59e8					0.000
FUNCTION2 PFK			4.12e5					175386		4.40e6					0.000
FUNCTION3 PFK			1.76e8					564778		1.83e8					
FUNCTION4 PFK			1.98e5					470636		1.97e6					
FUNCTION5 PFK			0.00e0					300577		0.00e0					
FUNCTION1 HXCDPE			3.34e2					660		5.36e3					0.000
FUNCTION1 HPCDPE			4.54e2					693		9.01e3					0.000
FUNCTION2 HPCDPE			1.01e2					715		1.75e3					0.000
FUNCTION3 OCDPE			7.55e1					555		1.85e3					0.000
FUNCTION4 NCDPE			1.62e2					741		4.20e3					0.000
FUNCTION5 DCDPE			0.00e0					465		0.00e0					0.000

AT50 : 00494

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

TF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PP

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	2 12378-PeCDF	339.8597	30.70	694.582	0.824	0.025	0.016	0.65	1.55	YES	6.4

HF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HPF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.88	1571.533	1.142	0.072		1.07	1.05	NO	7.8
2	8 1234678-HpCDF	407.7818	40.07	1745.998	1.153	0.071	0.053	0.62	1.05	YES	8.6

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	2 12378-PeCDF	339.8597	30.70	694.582	0.824	0.025	0.016	0.65	1.55	YES	6.4
2	39 Total-heptafurans	407.7818	40.88	1571.533	1.142	0.072		1.07	1.05	NO	7.8
3	8 1234678-HpCDF	407.7818	40.07	1745.998	1.153	0.071	0.053	0.62	1.05	YES	8.6
4	10 OCDF	441.7428	48.36	4262.023	1.023	0.270	0.270	0.77	0.89	NO	19.1

TD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	30.68	376.494	0.939	0.019		2.12	1.55	YES	4.0

HD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	35.87	676.676	0.919	0.035		2.52	1.24	YES	8.9
2	43 Total-hexadioxins	389.8157	35.72	528.014	0.919	0.027		1.77	1.24	YES	5.9

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.96	3331.913	0.964	0.187	0.187	1.13	1.05	NO	28.1
2	44 Total-heptadioxins	423.7766	40.64	3283.356	0.964	0.184		1.04	1.05	NO	25.5

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	45 Total-Dioxins	319.8965	22.00	179.321	0.950	0.008		1.08	0.77	YES	2.1
2	43 Total-hexadioxins	389.8157	35.87	676.676	0.919	0.035		2.52	1.24	YES	8.9
3	43 Total-hexadioxins	389.8157	35.72	528.014	0.919	0.027		1.77	1.24	YES	5.9
4	42 Total-pentadioxins	355.8546	30.68	376.494	0.939	0.019		2.12	1.55	YES	4.0
5	16 1234678-HpCDD	423.7766	41.96	3331.913	0.964	0.187	0.187	1.13	1.05	NO	28.1
6	44 Total-heptadioxins	423.7766	40.64	3283.356	0.964	0.184		1.04	1.05	NO	25.5
7	17 OCDD	457.7377	48.10	45982.412	0.969	3.081	3.081	0.93	0.89	NO	264.4

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	2 12378-PeCDF	339.8597	30.70	694.582	0.824	0.025	0.016	0.65	1.55	YES	6.4
2	39 Total-heptafurans	407.7818	40.88	1571.533	1.142	0.072		1.07	1.05	NO	7.8
3	8 1234678-HpCDF	407.7818	40.07	1745.998	1.153	0.071	0.053	0.62	1.05	YES	8.6
4	10 OCDF	441.7428	48.36	4262.023	1.023	0.270	0.270	0.77	0.89	NO	19.1
5	45 Total-Dioxins	319.8965	22.00	179.321	0.950	0.008		1.08	0.77	YES	2.1
6	43 Total-hexadioxins	389.8157	35.87	676.676	0.919	0.035		2.52	1.24	YES	8.9
7	43 Total-hexadioxins	389.8157	35.72	528.014	0.919	0.027		1.77	1.24	YES	5.9
8	42 Total-pentadioxins	355.8546	30.68	376.494	0.939	0.019		2.12	1.55	YES	4.0
9	16 1234678-HpCDD	423.7766	41.96	3331.913	0.964	0.187	0.187	1.13	1.05	NO	28.1
10	44 Total-heptadioxins	423.7766	40.64	3283.356	0.964	0.184		1.04	1.05	NO	25.5
11	17 OCDD	457.7377	48.10	45982.412	0.969	3.081	3.081	0.93	0.89	NO	264.4

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	23.64	0.000							10.9
2	48 FUNCTION1 PFK	330.9792	23.24	0.000							36.4
3	48 FUNCTION1 PFK	330.9792	22.91	0.000							65.1
4	48 FUNCTION1 PFK	330.9792	22.84	0.000							65.9
5	48 FUNCTION1 PFK	330.9792	22.64	0.000							76.3
6	48 FUNCTION1 PFK	330.9792	22.43	0.000							84.3
7	48 FUNCTION1 PFK	330.9792	22.33	0.000							89.0
8	48 FUNCTION1 PFK	330.9792	21.46	0.000							101.4
9	48 FUNCTION1 PFK	330.9792	21.16	0.000							40.2

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

PFK2

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	28.86	0.000	0.000				1.0
2	49 FUNCTION2 PFK	366.9792	33.26	0.000	0.000				1.0
3	49 FUNCTION2 PFK	366.9792	33.11	0.000	0.000				2.2
4	49 FUNCTION2 PFK	366.9792	31.96	0.000	0.000				5.1
5	49 FUNCTION2 PFK	366.9792	31.90	0.000	0.000				3.7
6	49 FUNCTION2 PFK	366.9792	31.75	0.000	0.000				0.0
7	49 FUNCTION2 PFK	366.9792	31.40	0.000	0.000				1.8
8	49 FUNCTION2 PFK	366.9792	30.92	0.000	0.000				0.4
9	49 FUNCTION2 PFK	366.9792	30.79	0.000	0.000				1.0
10	49 FUNCTION2 PFK	366.9792	30.34	0.000	0.000				4.3
11	49 FUNCTION2 PFK	366.9792	29.82	0.000	0.000				0.9
12	49 FUNCTION2 PFK	366.9792	29.46	0.000	0.000				1.5
13	49 FUNCTION2 PFK	366.9792	29.39	0.000	0.000				0.8
14	49 FUNCTION2 PFK	366.9792	29.02	0.000	0.000				0.9
15	49 FUNCTION2 PFK	366.9792	28.99	0.000	0.000				0.5

PFK3

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.34	0.000	0.000				39.7
2	50 FUNCTION3 PFK	380.9760	38.16	0.000	0.000				45.2
3	50 FUNCTION3 PFK	380.9760	36.78	0.000	0.000				97.7
4	50 FUNCTION3 PFK	380.9760	35.10	0.000	0.000				73.5
5	50 FUNCTION3 PFK	380.9760	34.91	0.000	0.000				68.3

PFK4

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	39.62	0.000					4.2

PFK5

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1									

ETHERS1

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.68	0.000	0.000				1.4
2	53 FUNCTION1 HXCD...	375.8364	26.05	0.000	0.000				3.7
3	53 FUNCTION1 HXCD...	375.8364	23.64	0.000	0.000				1.6
4	53 FUNCTION1 HXCD...	375.8364	23.43	0.000	0.000				1.4

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

ETHERS2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	21.76	0.000	0.000					2.5
2	54 FUNCTION1 HPCD...	409.7974	21.40	0.000	0.000					1.3
3	54 FUNCTION1 HPCD...	409.7974	21.15	0.000	0.000					2.8
4	54 FUNCTION1 HPCD...	409.7974	27.89	0.000	0.000					3.2
5	54 FUNCTION1 HPCD...	409.7974	25.39	0.000	0.000					3.2

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.91	0.000	0.000					2.4

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	38.41	0.000	0.000					3.3

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	44.39	0.000	0.000					3.8
2	57 FUNCTION4 NCDPE	479.7165	40.94	0.000	0.000					1.8

ETHERS6

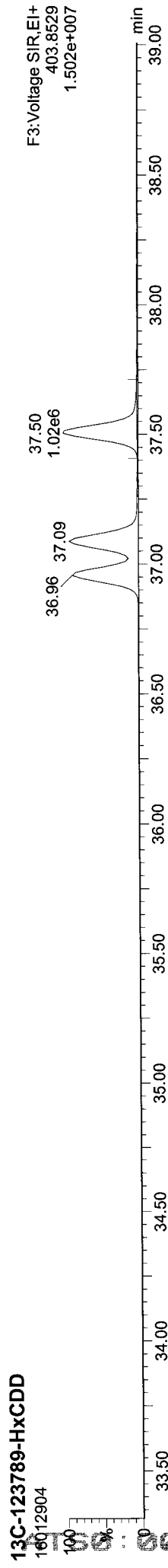
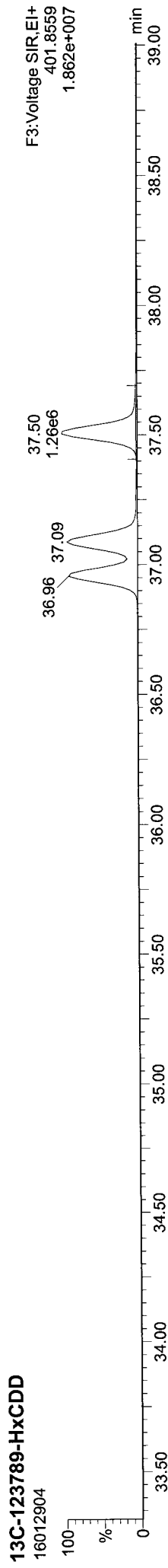
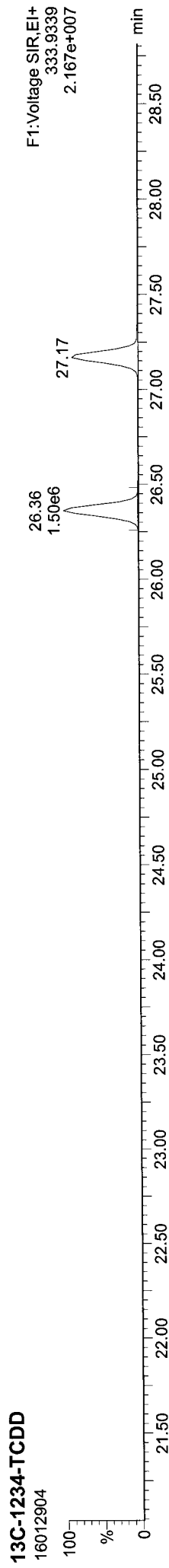
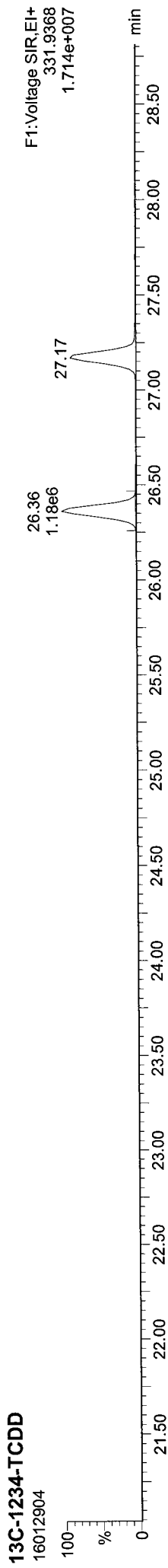
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1										

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\DiDioxin1601293SN.mdb 29 Jan 2016 12:40:27
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

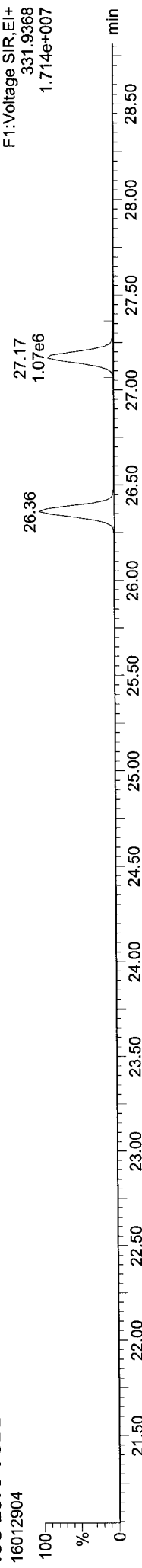


16012904

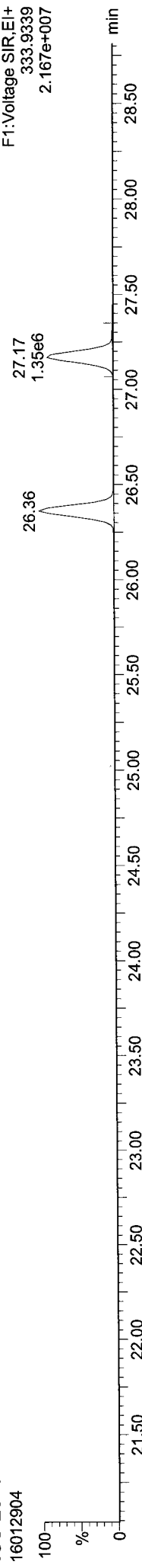
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

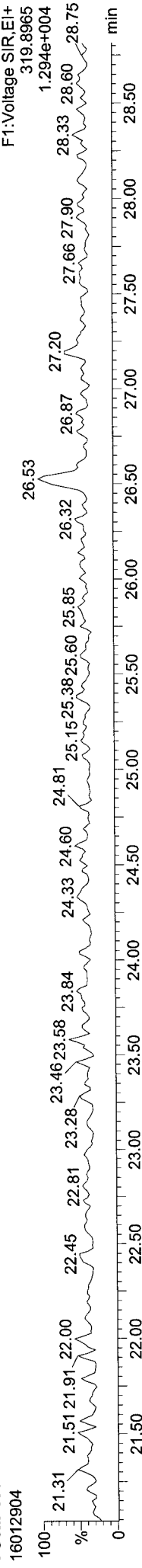
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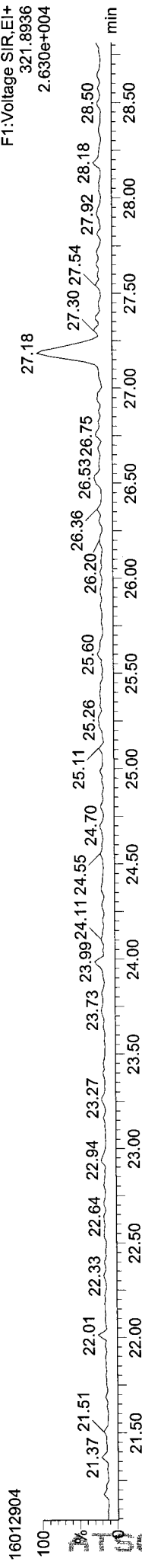
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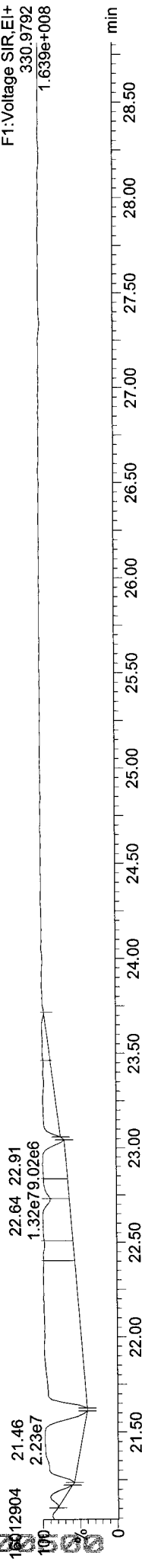
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

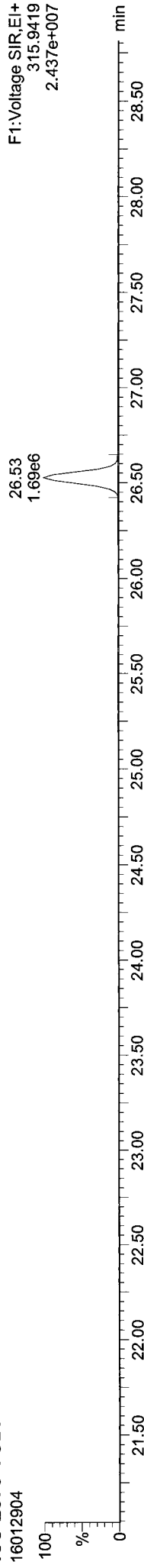
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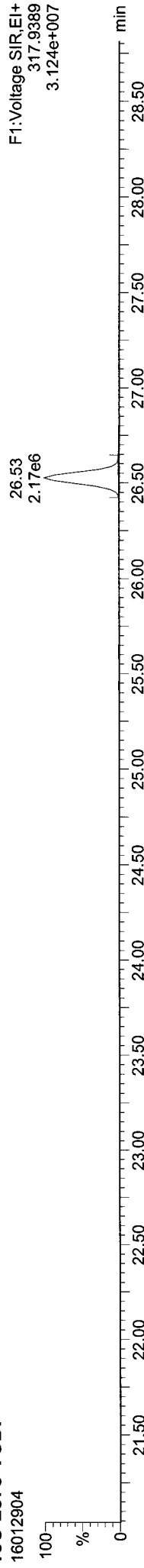
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

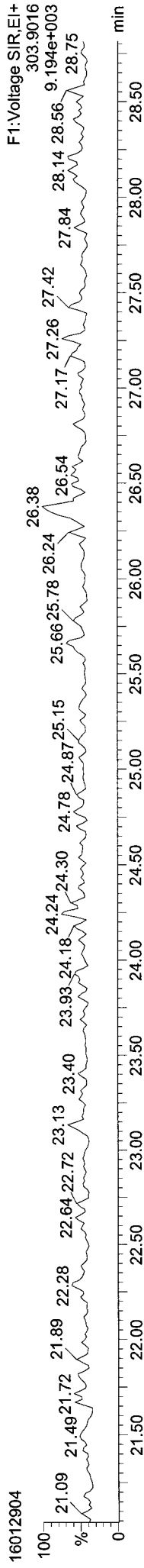
13C-2378-TCDF



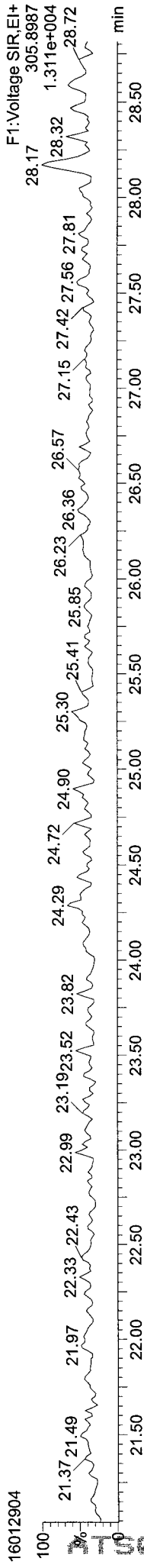
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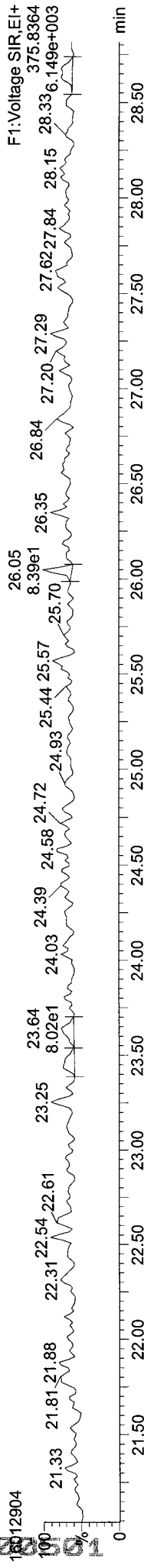
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

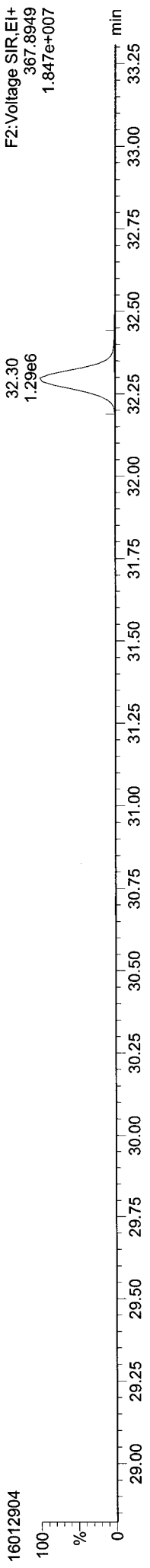


Quantify Sample Report MassLynx V4.1 SCN909

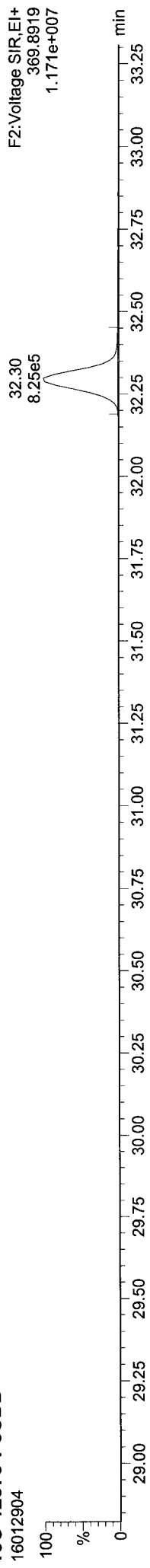
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

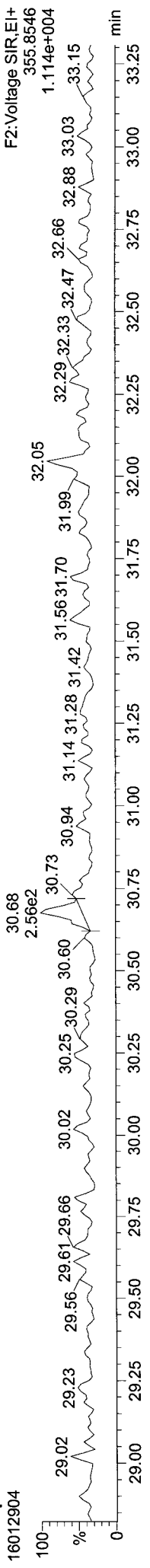
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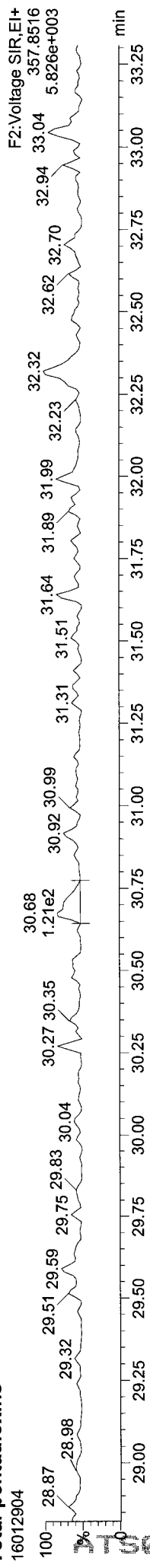
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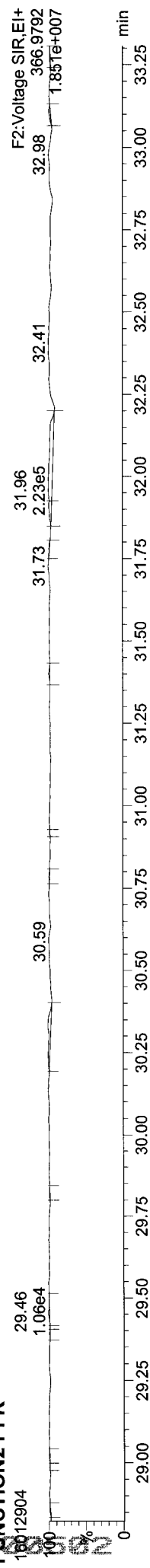
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

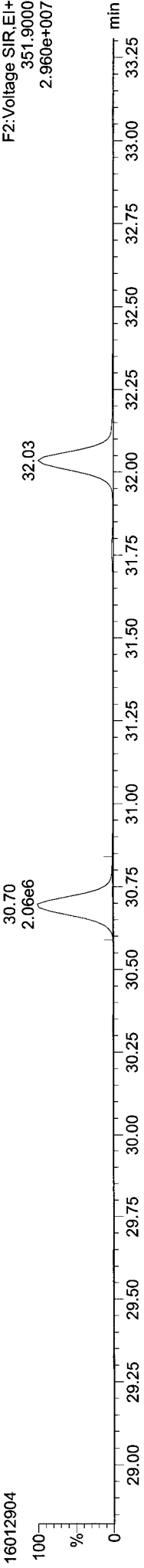


Quantify Sample Report MassLynx V4.1 SCN909

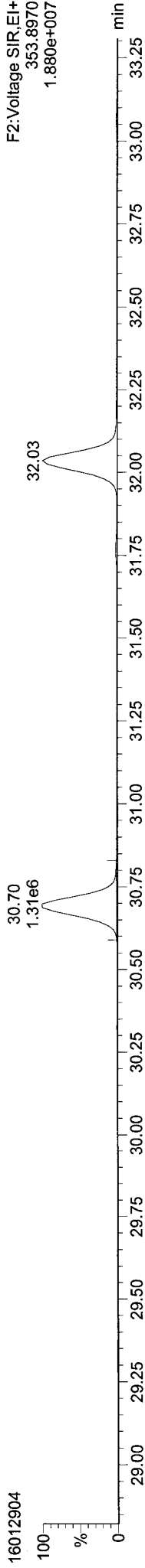
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Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

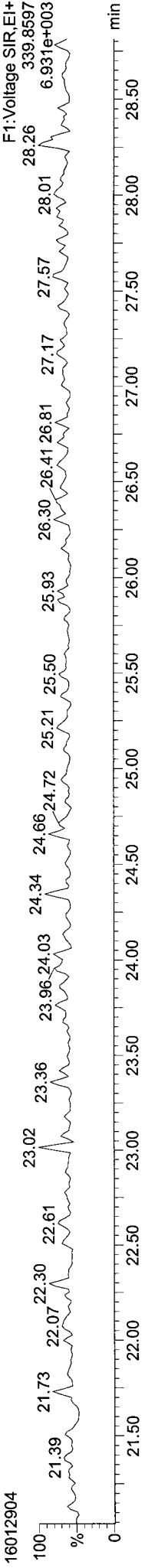
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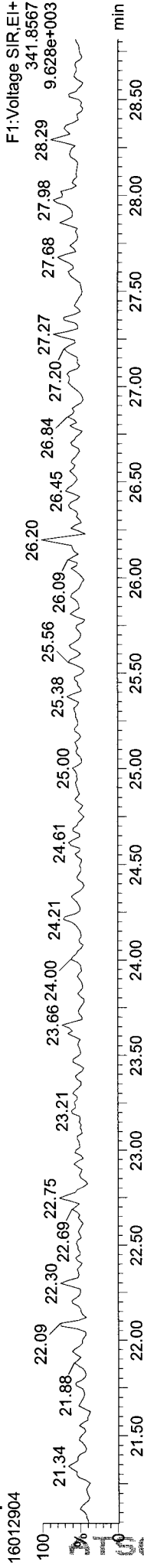
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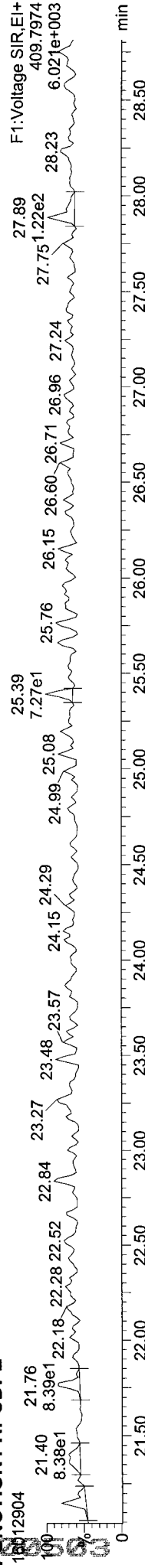
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

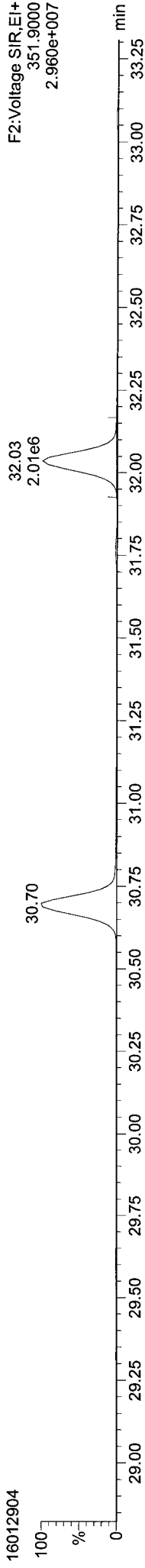


Quantify Sample Report MassLynx V4.1 SCN909

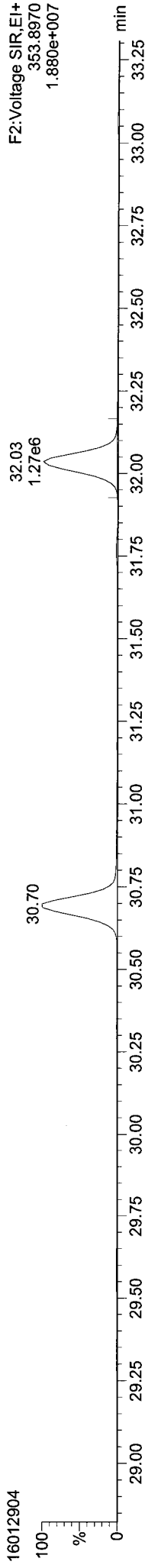
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

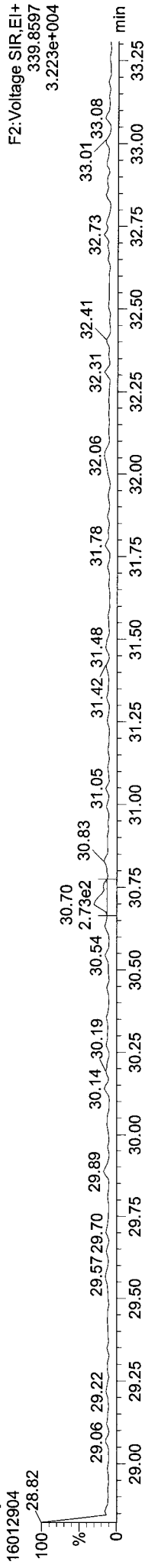
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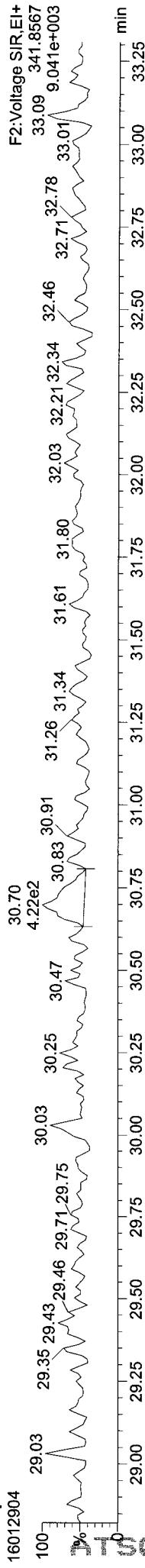
13C-23478-PeCDF



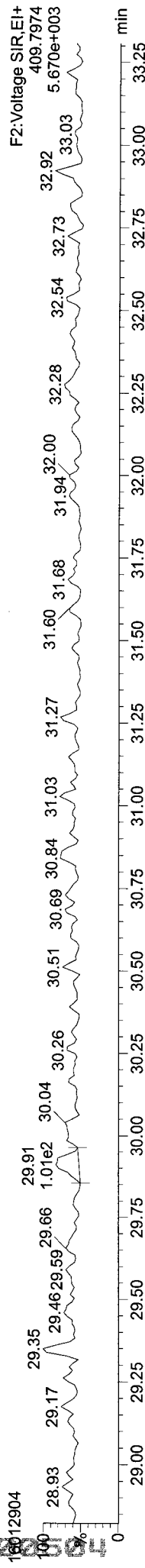
Total-pentafurans



Total-pentafurans



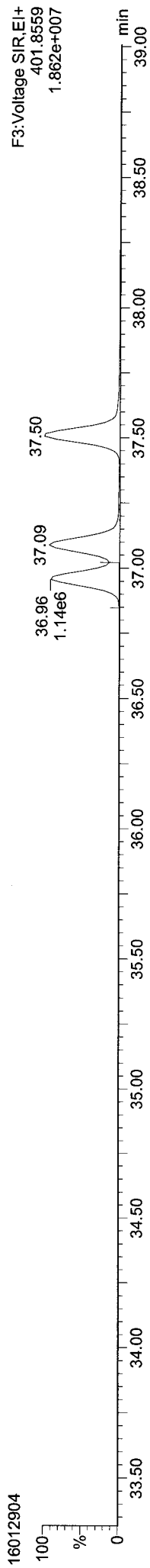
FUNCTION2 HPCDPE



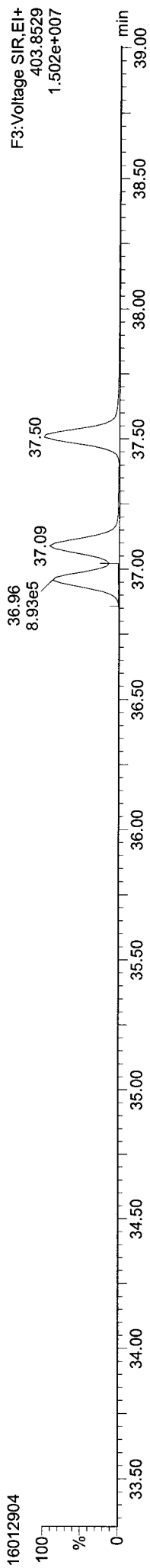
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

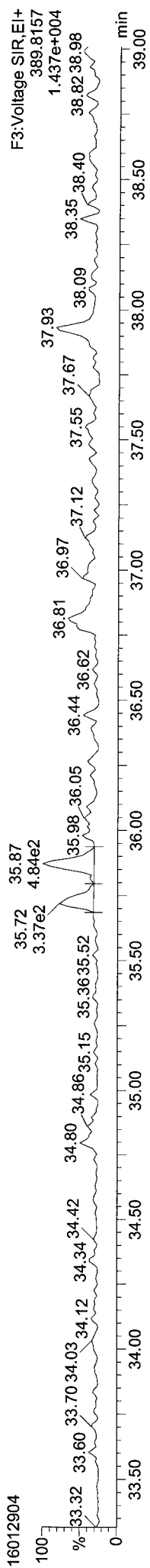
13C-123478-HxCDD



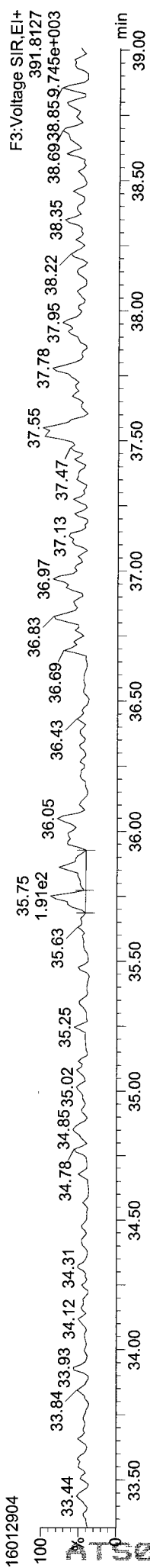
13C-123478-HxCDD



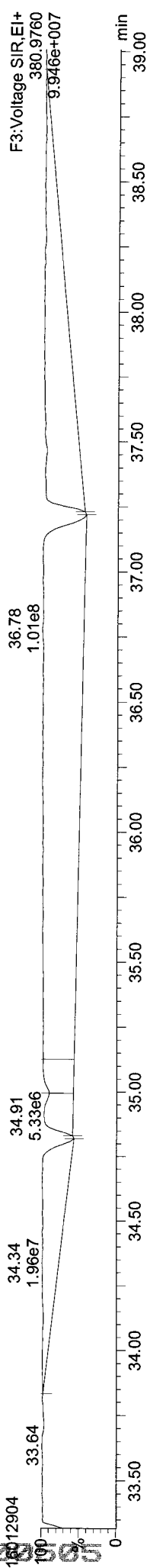
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

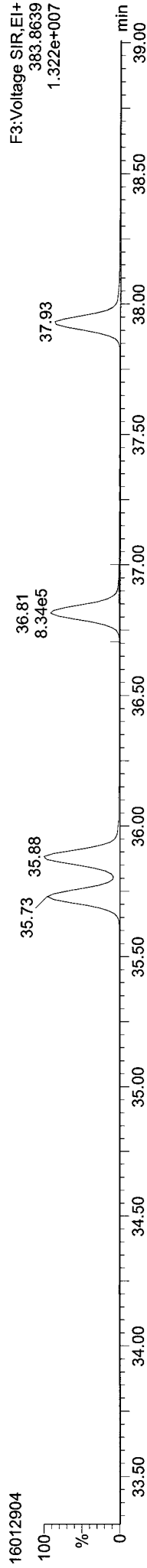
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

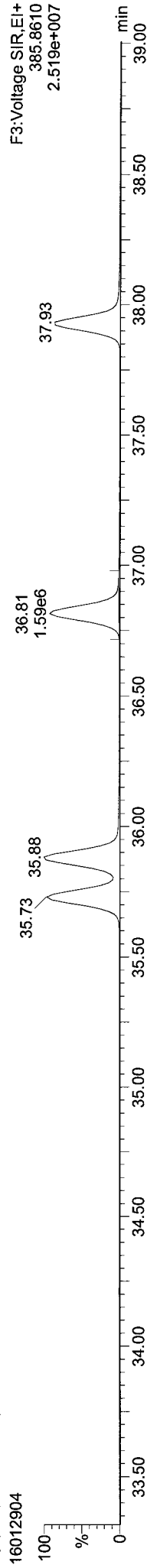
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

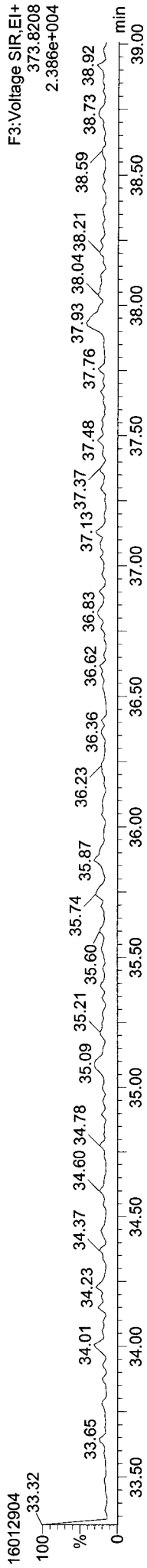
13C-234678-HxCDF



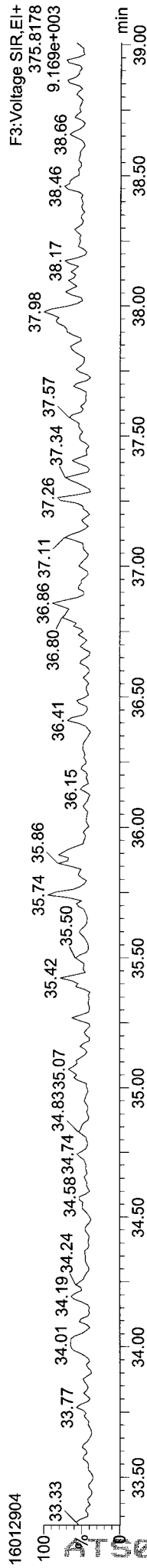
13C-234678-HxCDF



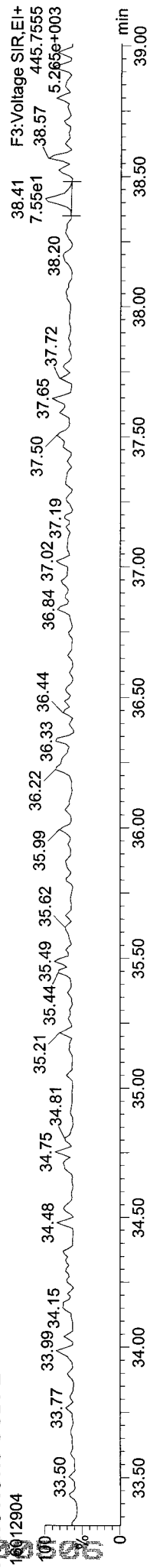
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

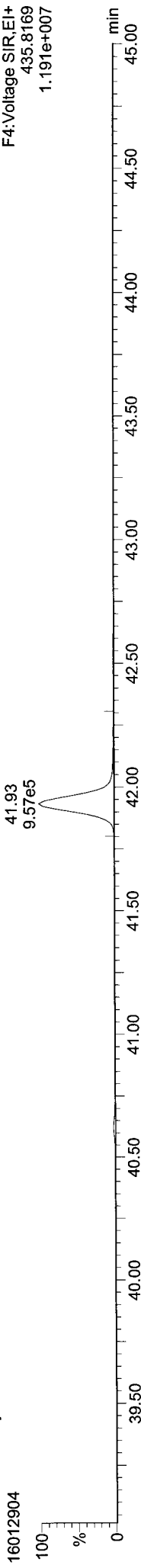


Quantify Sample Report MassLynx V4.1 SCN909

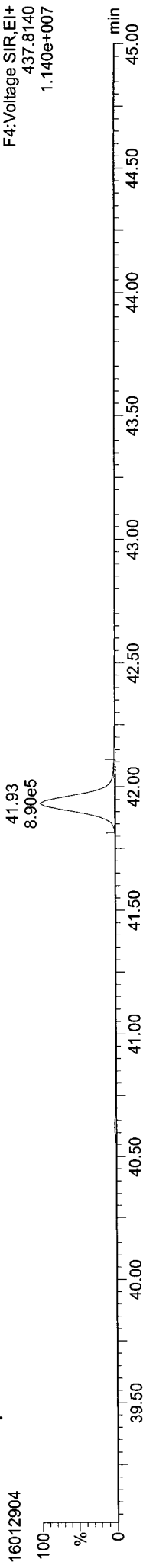
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

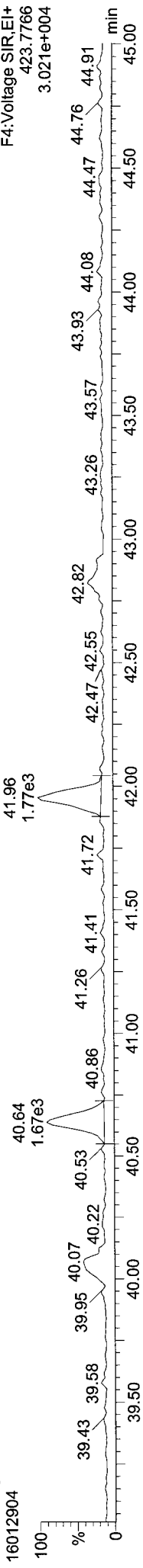
13C-1234678-HpCDD



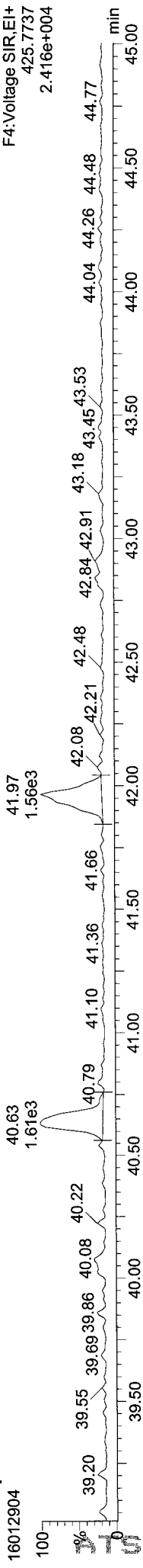
13C-1234678-HpCDD



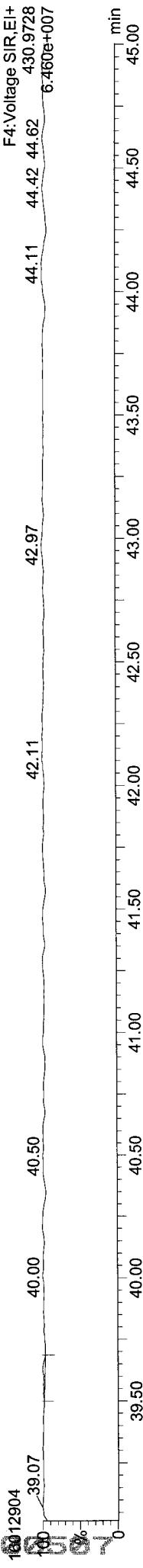
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

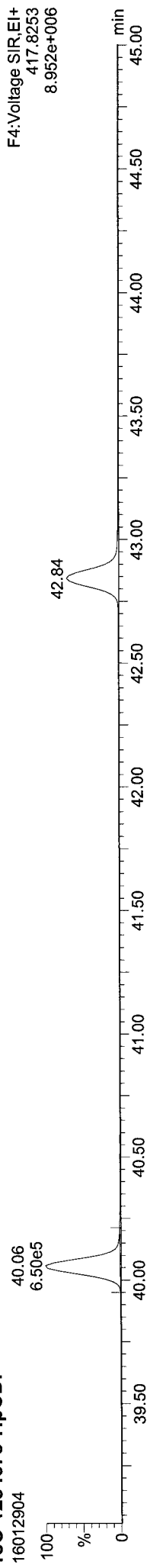


Quantify Sample Report MassLynx V4.1 SCN909

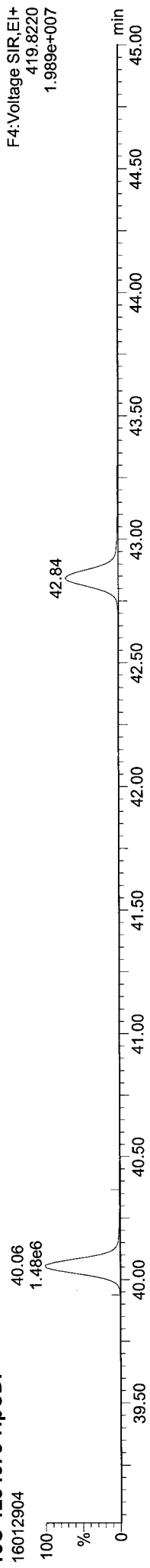
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

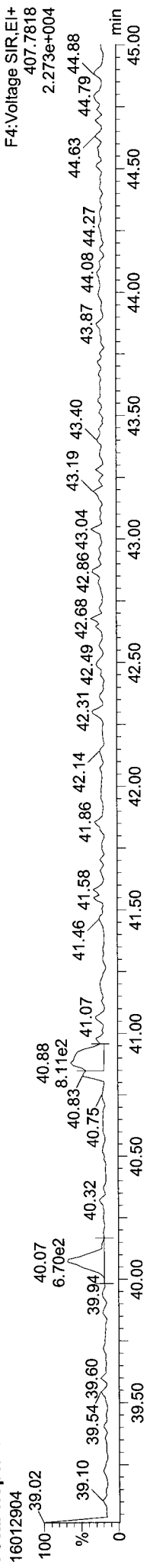
13C-1234678-HpCDF



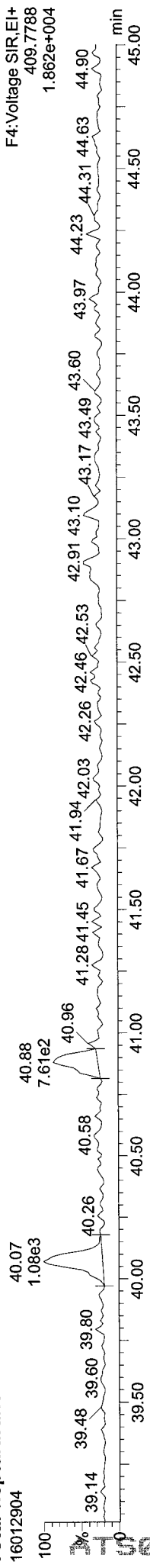
13C-1234678-HpCDF



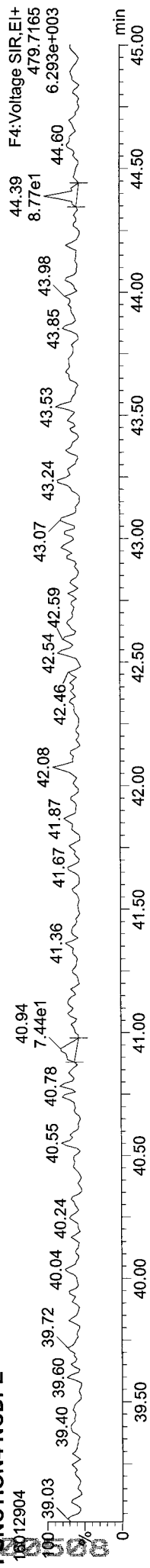
Total-heptafurans



Total-heptafurans



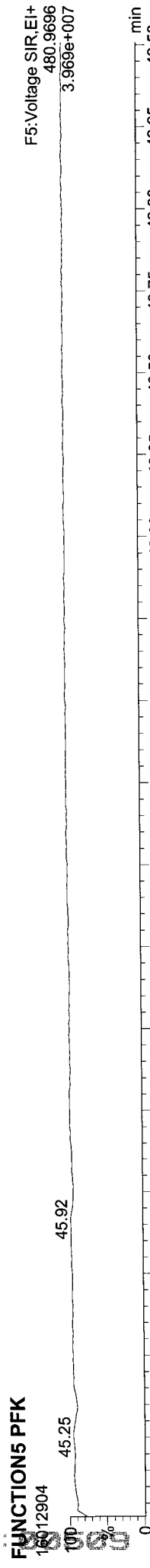
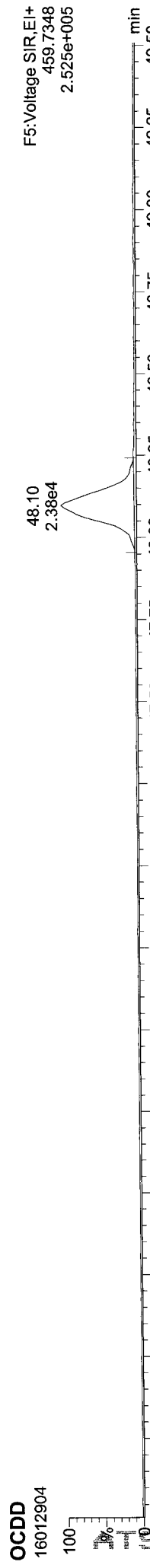
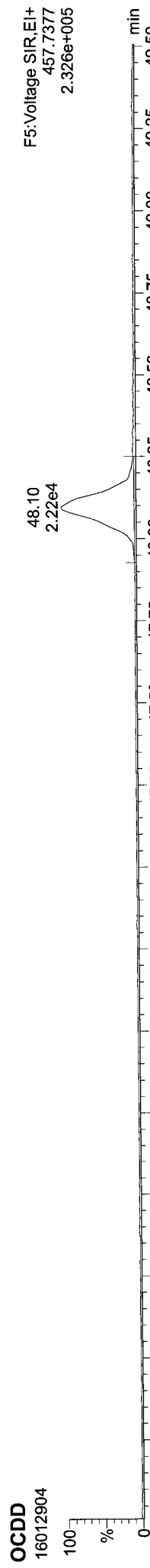
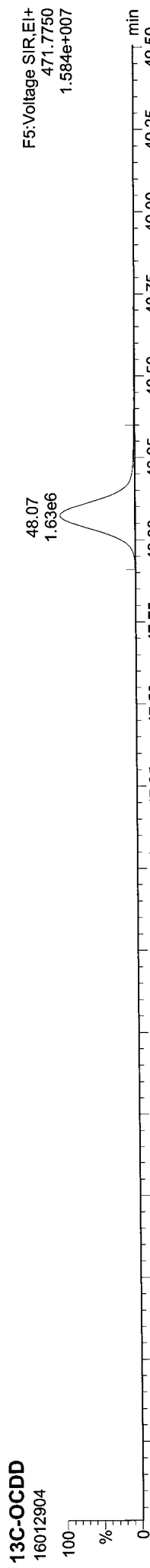
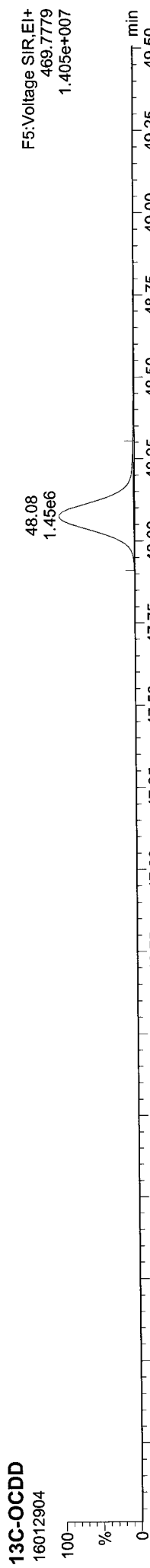
FUNCTION4 NCDPE



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PROV160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

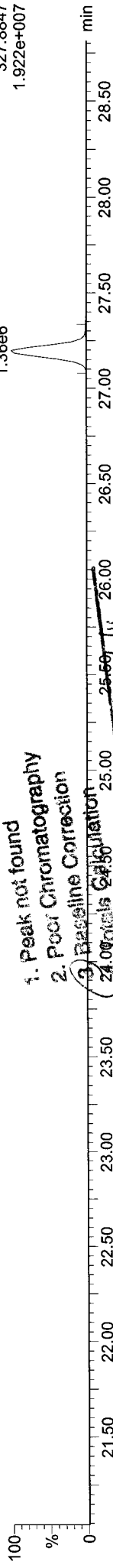
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

16012904

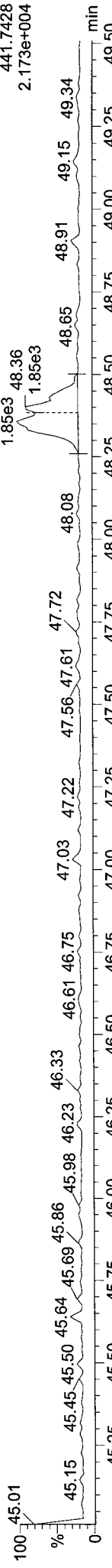


MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Peaks Calculation
 5. Other
- Date 2/1/16 26.00
- Analyst

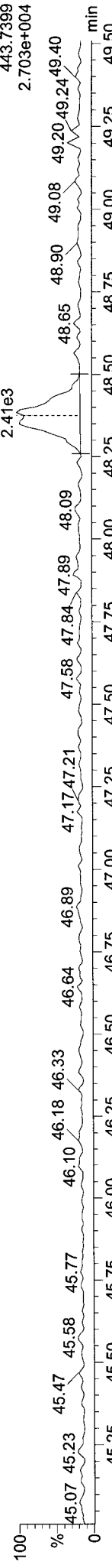
OCDF

16012904



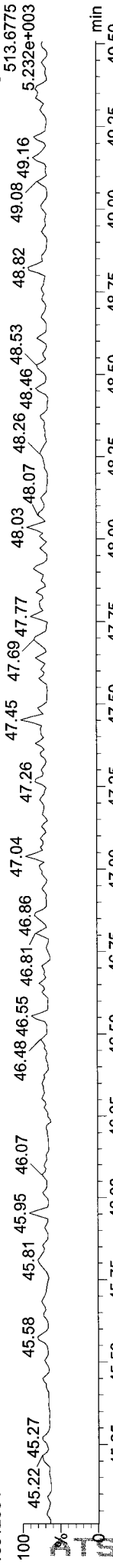
OCDF

16012904



FUNCTIONS DCDPE

16012904



AT50 : 00510

Quantify Sample Summary Report

MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.511	1.001	1.56e5	2.19e5	0.827	0.710	0.770	993	1710	2.30e6	3.21e6	2321.2	NO	11.567	11.567
12378-PeCDF	30.687	1.001	9.53e5	6.49e5	0.824	1.468	1.550	2255	4427	1.39e7	9.37e6	6185.9	NO	58.443	58.443
23478-PeCDF	32.024	1.000	9.37e5	6.40e5	0.850	1.464	1.550	2255	4427	1.42e7	9.60e6	6287.8	NO	57.320	57.320
123478-HxCDF	35.729	1.001	7.50e5	6.53e5	0.973	1.149	1.240	3086	3316	1.12e7	9.75e6	3637.8	NO	57.816	57.816
234678-HxCDF	36.814	1.000	7.82e5	6.65e5	1.025	1.177	1.240	3086	3316	1.14e7	9.76e6	3682.9	NO	57.952	57.952
123678-HxCDF	35.882	1.001	7.82e5	6.77e5	0.953	1.155	1.240	3086	3316	1.13e7	9.59e6	3671.5	NO	57.407	57.407
123789-HxCDF	37.932	1.001	6.57e5	5.60e5	0.956	1.174	1.240	3086	3316	9.82e6	8.44e6	3182.0	NO	57.106	57.106
1234678-HpCDF	40.059	1.001	6.45e5	6.63e5	1.153	0.974	1.050	3514	2886	9.03e6	9.30e6	2571.1	NO	58.415	58.415
1234789-HpCDF	42.854	1.001	5.01e5	5.19e5	1.131	0.966	1.050	3514	2886	6.10e6	6.25e6	1735.8	NO	57.286	57.286
OCDF	48.367	1.006	7.42e5	8.88e5	1.023	0.835	0.890	1927	2476	7.11e6	8.38e6	3687.4	NO	108.416	108.416
2378-TCDD	27.169	1.001	1.32e5	1.66e5	1.023	0.796	0.770	1520	1020	1.92e6	2.42e6	1263.4	NO	11.818	11.818
12378-PeCDD	32.287	1.001	6.70e5	4.30e5	0.939	1.556	1.550	1697	1125	1.01e7	6.37e6	5943.6	NO	55.871	55.871
123478-HxCDD	36.957	1.000	6.19e5	4.97e5	0.963	1.245	1.240	2629	1659	9.46e6	7.54e6	3599.8	NO	56.550	56.550
123678-HxCDD	37.088	1.001	6.19e5	4.97e5	0.963	1.245	1.240	2629	1659	9.04e6	7.26e6	3436.8	NO	57.790	57.790
123789-HxCDD	37.505	1.012	6.08e5	4.85e5	0.900	1.254	1.240	2629	1659	9.32e6	7.45e6	3543.8	NO	57.703	57.703
1234678-HpCDD	41.944	1.001	4.78e5	4.68e5	0.964	1.022	1.050	1801	2063	6.06e6	5.82e6	3365.9	NO	57.406	57.406
OCDD	48.089	1.000	7.55e5	8.41e5	0.969	0.898	0.890	1599	2132	7.42e6	8.18e6	4642.2	NO	112.132	112.132
13C-2378-TCDF	26.497	1.006	1.71e6	2.20e6	1.502	0.777	0.770	8120	3814	2.50e7	3.20e7	3080.7	NO	90.426	90.426
13C-12378-PeCDF	30.665	1.165	2.03e6	1.29e6	1.215	1.571	1.550	4988	3662	2.99e7	1.90e7	5992.2	NO	94.885	94.885
13C-23478-PeCDF	32.013	1.216	1.99e6	1.25e6	1.181	1.587	1.550	4988	3662	2.99e7	1.89e7	5993.5	NO	95.007	95.007
13C-123478-HxCDF	35.707	0.952	8.48e5	1.65e6	1.246	0.515	0.510	3685	3567	1.27e7	2.46e7	3448.2	NO	87.122	87.122
13C-123678-HxCDF	35.861	0.956	9.14e5	1.75e6	1.375	0.522	0.510	3685	3567	1.35e7	2.57e7	3664.1	NO	84.366	84.366
13C-234678-HxCDF	36.803	0.982	8.39e5	1.60e6	1.186	0.525	0.510	3685	3567	1.22e7	2.33e7	3303.5	NO	89.339	89.339
13C-123789-HxCDF	37.910	1.011	7.64e5	1.46e6	1.135	0.522	0.510	3685	3567	1.17e7	2.25e7	3174.0	NO	85.439	85.439
13C-1234678-HpCDF	40.037	1.068	6.03e5	1.34e6	1.020	0.450	0.440	1571	2599	8.45e6	1.88e7	5379.3	NO	82.786	82.786
13C-1234789-HpCDF	42.832	1.142	4.86e5	1.09e6	0.824	0.446	0.440	1571	2599	5.94e6	1.32e7	3783.6	NO	83.192	83.192
13C-1234-TCDD	26.332	0.000	1.28e6	1.60e6	1.000	0.801	0.770	3701	1553	1.87e7	2.34e7	5057.2	NO	100.000	100.000
13C-2378-TCDD	27.139	1.031	1.08e6	1.39e6	0.983	0.775	0.770	3701	1553	1.50e7	1.91e7	4046.4	NO	86.953	86.953
13C-12378-PeCDD	32.265	1.225	1.28e6	8.11e5	0.787	1.584	1.550	1436	1143	1.87e7	1.19e7	13021.2	NO	92.320	92.320
13C-123478-HxCDD	36.946	0.985	1.14e6	9.07e5	1.031	1.259	1.240	2468	2260	1.70e7	1.35e7	6878.7	NO	86.453	86.453
13C-123678-HxCDD	37.066	0.989	1.21e6	9.55e5	1.137	1.265	1.240	2468	2260	1.75e7	1.40e7	7109.0	NO	82.790	82.790
13C-1234678-HpCDD	41.922	1.118	8.81e5	8.27e5	0.892	1.066	1.050	2926	2266	1.13e7	1.05e7	3872.0	NO	83.317	83.317
13C-OCDD	48.071	1.282	1.39e6	1.55e6	0.852	0.896	0.890	2514	2292	1.37e7	1.50e7	5434.0	NO	150.103	150.103

Quantify Sample Summary Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.494	0.000	1.28e6	1.02e6	1.000	1.251	1.240	2468	2260	1.95e7	1.56e7	7899.8	NO		100.000
Total-tetrafurans			1.61e5		0.827			993		2.38e6					11.930
Total-penta1			0.00e0					788		0.00e0					
Total-pentafurans			1.94e6		0.837			2255		2.88e7					118.765
Total-hexafurans			2.98e6		0.977			3086		4.38e7					230.731
Total-heptafurans			1.15e6		1.142			3514		1.52e7					116.138
Total-Furans			6.97e6		0.971			993		9.73e7					585.980
Total-tetradioxins			1.35e5		1.023			1520		1.97e6					12.108
Total-pentadioxins			6.71e5		0.939			1697		1.01e7					55.954
Total-hexadioxins			1.85e6		0.919			2629		2.79e7					172.629
Total-heptadioxins			4.82e5		0.964			1801		6.11e6					57.871
Total-Dioxins			3.90e6		0.950			1520		5.35e7					410.692
Total-TEQ			1.09e7					1520		1.51e8					996.673
37CL-2378-TCDD	27.169	1.032	1.29e6		1.091			1477		1.87e7		12638.7			40.966
FUNCTION1 PFK			1.32e8					717439		5.10e8					0.000
FUNCTION2 PFK			4.86e5					205260		7.15e6					0.000
FUNCTION3 PFK			1.92e8					822657		2.83e8					0.000
FUNCTION4 PFK			3.16e6					454329		2.48e7					
FUNCTION5 PFK			0.00e0					337407		0.00e0					
FUNCTION1 HXCDPE			7.25e2					945		1.33e4					0.000
FUNCTION1 HPCDPE			2.86e2					646		5.08e3					0.000
FUNCTION2 HPCDPE			0.00e0					963		0.00e0					
FUNCTION3 OCDPE			7.07e1					588		1.54e3					0.000
FUNCTION4 NCDPE			4.59e2					920		1.16e4					0.000
FUNCTION5 DCDPE			0.00e0					605		0.00e0					

15:20:00512

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.51	374731.687	0.827	11.567	11.567	0.71	0.77	NO	2321.2
2	35 Total-tetrafurans	303.9016	26.33	931.379	0.827	0.029		0.76	0.77	NO	7.2
3	35 Total-tetrafurans	303.9016	25.61	3547.229	0.827	0.109		0.75	0.77	NO	22.9
4	35 Total-tetrafurans	303.9016	25.42	3212.926	0.827	0.099		0.76	0.77	NO	19.3
5	35 Total-tetrafurans	303.9016	25.29	4076.664	0.827	0.126		0.80	0.77	NO	25.3

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	30.33	4384.219	0.837	0.160		2.31	1.55	YES	19.5
2	37 Total-pentafurans	339.8597	29.60	15301.809	0.837	0.557		1.36	1.55	NO	49.4
3	37 Total-pentafurans	339.8597	33.07	12447.652	0.837	0.453		1.62	1.55	NO	50.4
4	3 23478-PeCDF	339.8597	32.02	1577154.563	0.850	57.320	57.320	1.46	1.55	NO	6287.8
5	37 Total-pentafurans	339.8597	31.75	1878.906	0.837	0.068		1.10	1.55	YES	7.7
6	37 Total-pentafurans	339.8597	30.98	3669.564	0.837	0.134		5.12	1.55	YES	20.3
7	37 Total-pentafurans	339.8597	30.88	44800.906	0.837	1.631		1.36	1.55	NO	153.8
8	2 12378-PeCDF	339.8597	30.69	1601987.063	0.824	58.443	58.443	1.47	1.55	NO	6185.9

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	6 123678-HxCDF	373.8208	35.88	1458657.501	0.953	57.407	57.407	1.16	1.24	NO	3671.5
2	4 123478-HxCDF	373.8208	35.73	1403044.188	0.973	57.816	57.816	1.15	1.24	NO	3637.8
3	38 Total-hexafurans	373.8208	35.55	1865.030	0.977	0.078		1.40	1.24	NO	6.1
4	38 Total-hexafurans	373.8208	34.21	8939.039	0.977	0.373		1.15	1.24	NO	23.7
5	7 123789-HxCDF	373.8208	37.93	1216809.375	0.956	57.106	57.106	1.17	1.24	NO	3182.0
6	5 234678-HxCDF	373.8208	36.81	1446857.813	1.025	57.952	57.952	1.18	1.24	NO	3682.9

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	42.85	1020349.313	1.131	57.286	57.286	0.97	1.05	NO	1735.8
2	39 Total-heptafurans	407.7818	40.87	6410.204	1.142	0.319		0.95	1.05	NO	11.5
3	39 Total-heptafurans	407.7818	40.27	2359.065	1.142	0.117		0.66	1.05	YES	5.4
4	8 1234678-HpCDF	407.7818	40.06	1308144.250	1.153	58.415	58.415	0.97	1.05	NO	2571.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.51	374731.687	0.827	11.567	11.567	0.71	0.77	NO	2321.2
2	35 Total-tetrafurans	303.9016	26.33	931.379	0.827	0.029		0.76	0.77	NO	7.2
3	35 Total-tetrafurans	303.9016	25.61	3547.229	0.827	0.109		0.75	0.77	NO	22.9
4	35 Total-tetrafurans	303.9016	25.42	3212.926	0.827	0.099		0.76	0.77	NO	19.3
5	35 Total-tetrafurans	303.9016	25.29	4076.664	0.827	0.126		0.80	0.77	NO	25.3
6	37 Total-pentafurans	339.8597	30.33	4384.219	0.837	0.160		2.31	1.55	YES	19.5
7	37 Total-pentafurans	339.8597	29.60	15301.809	0.837	0.557		1.36	1.55	NO	49.4
8	37 Total-pentafurans	339.8597	33.07	12447.652	0.837	0.453		1.62	1.55	NO	50.4
9	3 23478-PeCDF	339.8597	32.02	1577154.563	0.850	57.320	57.320	1.46	1.55	NO	6287.8
10	37 Total-pentafurans	339.8597	31.75	1878.906	0.837	0.068		1.10	1.55	YES	7.7
11	37 Total-pentafurans	339.8597	30.98	3669.564	0.837	0.134		5.12	1.55	YES	20.3
12	37 Total-pentafurans	339.8597	30.88	44800.906	0.837	1.631		1.36	1.55	NO	153.8
13	2 12378-PeCDF	339.8597	30.69	1601987.063	0.824	58.443	58.443	1.47	1.55	NO	6185.9
14	6 123678-HxCDF	373.8208	35.88	1458657.501	0.953	57.407	57.407	1.16	1.24	NO	3671.5
15	4 123478-HxCDF	373.8208	35.73	1403044.188	0.973	57.816	57.816	1.15	1.24	NO	3637.8
16	38 Total-hexa-furans	373.8208	35.55	1865.030	0.977	0.078		1.40	1.24	NO	6.1
17	38 Total-hexa-furans	373.8208	34.21	8939.039	0.977	0.373		1.15	1.24	NO	23.7
18	7 123789-HxCDF	373.8208	37.93	1216809.375	0.956	57.106	57.106	1.17	1.24	NO	3182.0
19	5 234678-HxCDF	373.8208	36.81	1446857.813	1.025	57.952	57.952	1.18	1.24	NO	3682.9
20	9 1234789-HpCDF	407.7818	42.85	1020349.313	1.131	57.286	57.286	0.97	1.05	NO	1735.8
21	39 Total-hepta-furans	407.7818	40.87	6410.204	1.142	0.319		0.95	1.05	NO	11.5
22	39 Total-hepta-furans	407.7818	40.27	2359.065	1.142	0.117		0.66	1.05	YES	5.4
23	8 1234678-HpCDF	407.7818	40.06	1308144.250	1.153	58.415	58.415	0.97	1.05	NO	2571.1
24	10 OCDF	441.7428	48.37	1629383.001	1.023	108.416	108....	0.84	0.89	NO	3687.4

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	11 2378-TCDD	319.8965	27.17	298198.719	1.023	11.818	11.818	0.80	0.77	NO	1263.4
2	41 Total-tetra-dioxins	319.8965	26.78	7297.220	1.023	0.289		0.85	0.77	NO	29.6

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	32.29	1100223.656	0.939	55.871	55.871	1.56	1.55	NO	5943.6
2	42 Total-penta-dioxins	355.8546	31.63	1621.593	0.939	0.082		1.79	1.55	YES	9.4

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	13 123478-HxCDD	389.8157	36.96	1115151.43E	0.963	56.550	56.550	1.24	1.24	NO	3599.8
2	43 Total-hexa-dioxins	389.8157	36.78	286.923	0.919	0.015		1.91	1.24	YES	1.6
3	43 Total-hexa-dioxins	389.8157	37.89	1038.980	0.919	0.054					3.6
4	15 123789-HxCDD	389.8157	37.50	1093366.063	0.900	57.703	57.703	1.25	1.24	NO	3543.8
5	43 Total-hexa-dioxins	389.8157	37.23	9998.313	0.919	0.517		1.02	1.24	YES	25.6
6	14 123678-HxCDD	389.8157	37.09	1116973.407	0.894	57.790	57.790	1.24	1.24	NO	3436.8

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.94	945215.594	0.964	57.406	57.406	1.02	1.05	NO	3365.9
2	44 Total-heptadioxins	423.7766	40.63	7644.681	0.964	0.464		1.06	1.05	NO	28.9

0

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	11 2378-TCDD	319.8965	27.17	298198.719	1.023	11.818	11.818	0.80	0.77	NO	1263.4
2	41 Total-tetradoxins	319.8965	26.78	7297.220	1.023	0.289		0.85	0.77	NO	29.6
3	13 123478-HxCDD	389.8157	36.96	1115151.438	0.963	56.550	56.550	1.24	1.24	NO	3599.8
4	43 Total-hexadioxins	389.8157	36.78	286.923	0.919	0.015		1.91	1.24	YES	1.6
5	12 12378-PeCDD	355.8546	32.29	1100223.656	0.939	55.871	55.871	1.56	1.55	NO	5943.6
6	42 Total-pentadioxins	355.8546	31.63	1621.593	0.939	0.082		1.79	1.55	YES	9.4
7	43 Total-hexadioxins	389.8157	37.89	1038.980	0.919	0.054					3.6
8	15 123789-HxCDD	389.8157	37.50	1093366.063	0.900	57.703	57.703	1.25	1.24	NO	3543.8
9	43 Total-hexadioxins	389.8157	37.23	9998.313	0.919	0.517		1.02	1.24	YES	25.6
10	14 123678-HxCDD	389.8157	37.09	1116973.407	0.894	57.790	57.790	1.24	1.24	NO	3436.8
11	16 1234678-HpCDD	423.7766	41.94	945215.594	0.964	57.406	57.406	1.02	1.05	NO	3365.9
12	44 Total-heptadioxins	423.7766	40.63	7644.681	0.964	0.464		1.06	1.05	NO	28.9
13	17 OCDD	457.7377	48.09	1595999.063	0.969	112.132	112....	0.90	0.89	NO	4642.2

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.51	374731.687	0.827	11.567	11.567	0.71	0.77	NO	2321.2
2	35 Total-tetrafurans	303.9016	26.33	931.379	0.827	0.029		0.76	0.77	NO	7.2
3	35 Total-tetrafurans	303.9016	25.61	3547.229	0.827	0.109		0.75	0.77	NO	22.9
4	35 Total-tetrafurans	303.9016	25.42	3212.926	0.827	0.099		0.76	0.77	NO	19.3
5	35 Total-tetrafurans	303.9016	25.29	4076.664	0.827	0.126		0.80	0.77	NO	25.3
6	37 Total-pentafurans	339.8597	30.33	4384.219	0.837	0.160		2.31	1.55	YES	19.5
7	37 Total-pentafurans	339.8597	29.60	15301.809	0.837	0.557		1.36	1.55	NO	49.4
8	37 Total-pentafurans	339.8597	33.07	12447.652	0.837	0.453		1.62	1.55	NO	50.4
9	3 23478-PeCDF	339.8597	32.02	1577154.563	0.850	57.320	57.320	1.46	1.55	NO	6287.8
10	37 Total-pentafurans	339.8597	31.75	1878.906	0.837	0.068		1.10	1.55	YES	7.7
11	37 Total-pentafurans	339.8597	30.98	3669.564	0.837	0.134		5.12	1.55	YES	20.3
12	37 Total-pentafurans	339.8597	30.88	44800.906	0.837	1.631		1.36	1.55	NO	153.8
13	2 12378-PeCDF	339.8597	30.69	1601987.063	0.824	58.443	58.443	1.47	1.55	NO	6185.9
14	6 123678-HxCDF	373.8208	35.88	1458657.501	0.953	57.407	57.407	1.16	1.24	NO	3671.5
15	4 123478-HxCDF	373.8208	35.73	1403044.188	0.973	57.816	57.816	1.15	1.24	NO	3637.8
16	38 Total-hexafurans	373.8208	35.55	1865.030	0.977	0.078		1.40	1.24	NO	6.1
17	38 Total-hexafurans	373.8208	34.21	8939.039	0.977	0.373		1.15	1.24	NO	23.7
18	7 123789-HxCDF	373.8208	37.93	1216809.375	0.956	57.106	57.106	1.17	1.24	NO	3182.0
19	5 234678-HxCDF	373.8208	36.81	1446857.813	1.025	57.952	57.952	1.18	1.24	NO	3682.9
20	9 1234789-HpCDF	407.7818	42.85	1020349.313	1.131	57.286	57.286	0.97	1.05	NO	1735.8
21	39 Total-heptafurans	407.7818	40.87	6410.204	1.142	0.319		0.95	1.05	NO	11.5
22	39 Total-heptafurans	407.7818	40.27	2359.065	1.142	0.117		0.66	1.05	YES	5.4
23	8 1234678-HpCDF	407.7818	40.06	1308144.250	1.153	58.415	58.415	0.97	1.05	NO	2571.1
24	10 OCDF	441.7428	48.37	1629383.001	1.023	108.416	108....	0.84	0.89	NO	3687.4
25	11 2378-TCDD	319.8965	27.17	298198.719	1.023	11.818	11.818	0.80	0.77	NO	1263.4
26	41 Total-tetradoxins	319.8965	26.78	7297.220	1.023	0.289		0.85	0.77	NO	29.6
27	13 123478-HxCDD	389.8157	36.96	1115151.43E	0.963	56.550	56.550	1.24	1.24	NO	3599.8
28	43 Total-hexadoxins	389.8157	36.78	286.923	0.919	0.015		1.91	1.24	YES	1.6
29	12 12378-PeCDD	355.8546	32.29	1100223.656	0.939	55.871	55.871	1.56	1.55	NO	5943.6
30	42 Total-pentadoxins	355.8546	31.63	1621.593	0.939	0.082		1.79	1.55	YES	9.4
31	43 Total-hexadoxins	389.8157	37.89	1038.980	0.919	0.054					3.6
32	15 123789-HxCDD	389.8157	37.50	1093366.063	0.900	57.703	57.703	1.25	1.24	NO	3543.8
33	43 Total-hexadoxins	389.8157	37.23	9998.313	0.919	0.517		1.02	1.24	YES	25.6
34	14 123678-HxCDD	389.8157	37.09	1116973.407	0.894	57.790	57.790	1.24	1.24	NO	3436.8
35	16 1234678-HpCDD	423.7766	41.94	945215.594	0.964	57.406	57.406	1.02	1.05	NO	3365.9
36	44 Total-heptadoxins	423.7766	40.63	7644.681	0.964	0.464		1.06	1.05	NO	28.9
37	17 OCDD	457.7377	48.09	1595999.063	0.969	112.132	112....	0.90	0.89	NO	4642.2

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

PFK1

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	22.87	0.000						87.1
2	48 FUNCTION1 PFK	330.9792	22.60	0.000						96.6
3	48 FUNCTION1 PFK	330.9792	22.21	0.000						113.2
4	48 FUNCTION1 PFK	330.9792	22.07	0.000						118.2
5	48 FUNCTION1 PFK	330.9792	21.48	0.000						121.0
6	48 FUNCTION1 PFK	330.9792	21.13	0.000						55.1
7	48 FUNCTION1 PFK	330.9792	25.26	0.000						1.9
8	48 FUNCTION1 PFK	330.9792	23.21	0.000						29.8
9	48 FUNCTION1 PFK	330.9792	22.90	0.000						87.4

PFK2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	31.98	0.000	0.000					1.9
2	49 FUNCTION2 PFK	366.9792	31.49	0.000	0.000					1.9
3	49 FUNCTION2 PFK	366.9792	31.44	0.000	0.000					0.6
4	49 FUNCTION2 PFK	366.9792	30.87	0.000	0.000					2.0
5	49 FUNCTION2 PFK	366.9792	30.83	0.000	0.000					1.3
6	49 FUNCTION2 PFK	366.9792	30.52	0.000	0.000					0.9
7	49 FUNCTION2 PFK	366.9792	30.06	0.000	0.000					1.3
8	49 FUNCTION2 PFK	366.9792	29.94	0.000	0.000					1.2
9	49 FUNCTION2 PFK	366.9792	29.51	0.000	0.000					1.4
10	49 FUNCTION2 PFK	366.9792	29.20	0.000	0.000					0.4
11	49 FUNCTION2 PFK	366.9792	28.97	0.000	0.000					1.2
12	49 FUNCTION2 PFK	366.9792	28.87	0.000	0.000					2.6
13	49 FUNCTION2 PFK	366.9792	32.94	0.000	0.000					4.1
14	49 FUNCTION2 PFK	366.9792	32.89	0.000	0.000					4.9
15	49 FUNCTION2 PFK	366.9792	32.64	0.000	0.000					3.3
16	49 FUNCTION2 PFK	366.9792	32.60	0.000	0.000					2.7
17	49 FUNCTION2 PFK	366.9792	32.50	0.000	0.000					1.7
18	49 FUNCTION2 PFK	366.9792	32.41	0.000	0.000					1.6

PFK3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	38.69	0.000	0.000					1.7
2	50 FUNCTION3 PFK	380.9760	37.93	0.000	0.000					26.2
3	50 FUNCTION3 PFK	380.9760	37.30	0.000	0.000					55.8
4	50 FUNCTION3 PFK	380.9760	35.76	0.000	0.000					58.2
5	50 FUNCTION3 PFK	380.9760	35.15	0.000	0.000					55.2
6	50 FUNCTION3 PFK	380.9760	34.88	0.000	0.000					51.9
7	50 FUNCTION3 PFK	380.9760	34.68	0.000	0.000					54.4
8	50 FUNCTION3 PFK	380.9760	33.43	0.000	0.000					40.0

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

PFK4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	44.62	0.000						5.4
2	51 FUNCTION4 PFK	430.9728	44.41	0.000						7.5
3	51 FUNCTION4 PFK	430.9728	41.90	0.000						3.3
4	51 FUNCTION4 PFK	430.9728	41.44	0.000						7.8
5	51 FUNCTION4 PFK	430.9728	41.26	0.000						5.5
6	51 FUNCTION4 PFK	430.9728	40.95	0.000						5.8
7	51 FUNCTION4 PFK	430.9728	40.48	0.000						6.8
8	51 FUNCTION4 PFK	430.9728	40.20	0.000						6.9
9	51 FUNCTION4 PFK	430.9728	39.60	0.000						5.6

PFK5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

ETHERS1

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	26.54	0.000	0.000					2.4
2	53 FUNCTION1 HXCD...	375.8364	26.30	0.000	0.000					2.2
3	53 FUNCTION1 HXCD...	375.8364	24.51	0.000	0.000					2.8
4	53 FUNCTION1 HXCD...	375.8364	22.81	0.000	0.000					2.1
5	53 FUNCTION1 HXCD...	375.8364	21.37	0.000	0.000					1.0
6	53 FUNCTION1 HXCD...	375.8364	28.20	0.000	0.000					1.7
7	53 FUNCTION1 HXCD...	375.8364	27.90	0.000	0.000					1.8

ETHERS2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.63	0.000	0.000					3.3
2	54 FUNCTION1 HPCD...	409.7974	26.44	0.000	0.000					2.0
3	54 FUNCTION1 HPCD...	409.7974	22.82	0.000	0.000					2.5

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	36.39	0.000	0.000					2.6

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	44.37	0.000	0.000					3.8
2	57 FUNCTION4 NCDPE	479.7165	44.10	0.000	0.000					1.9
3	57 FUNCTION4 NCDPE	479.7165	42.94	0.000	0.000					1.7
4	57 FUNCTION4 NCDPE	479.7165	42.29	0.000	0.000					2.0
5	57 FUNCTION4 NCDPE	479.7165	39.66	0.000	0.000					3.3

ETHERS6

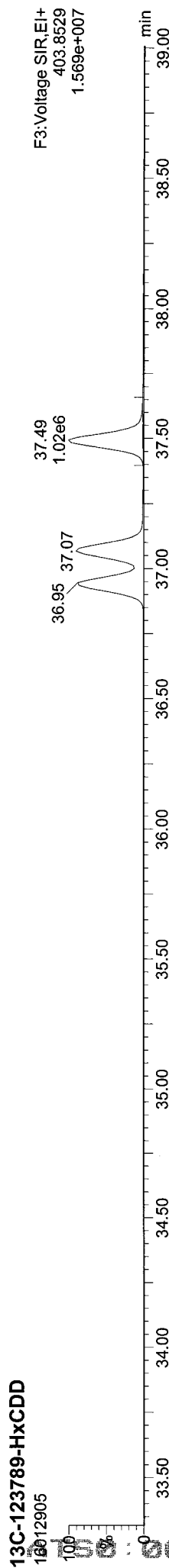
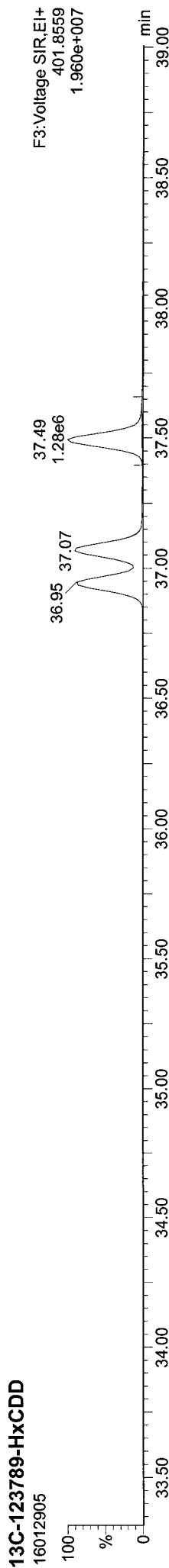
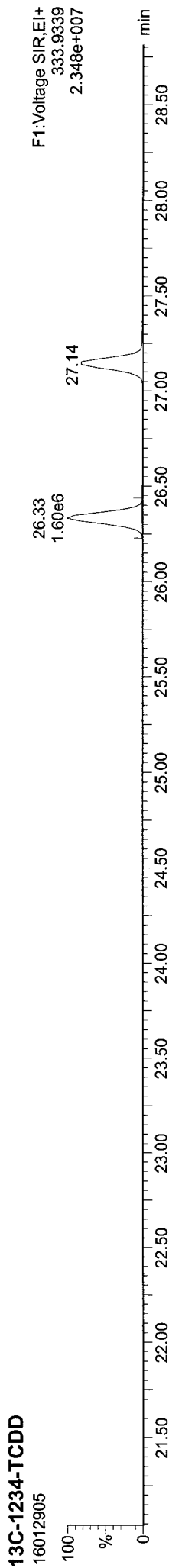
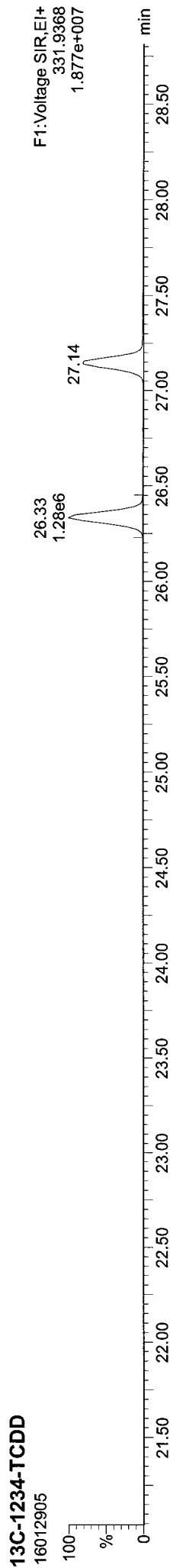
	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\DIoxin\1601293SN.mdb 29 Jan 2016 12:40:27
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

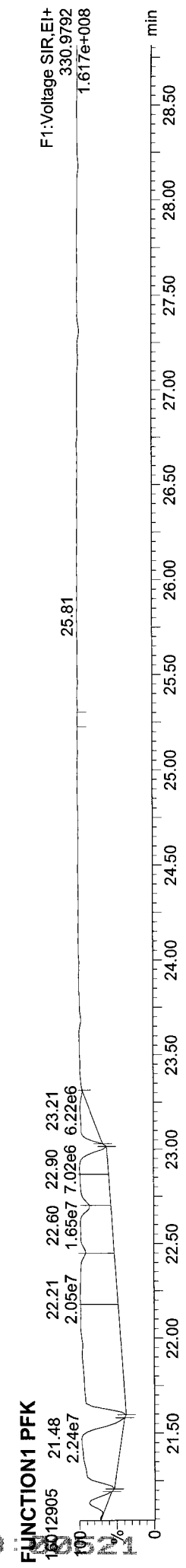
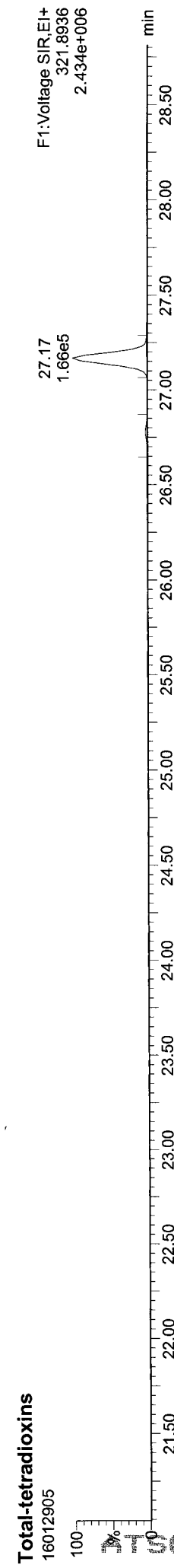
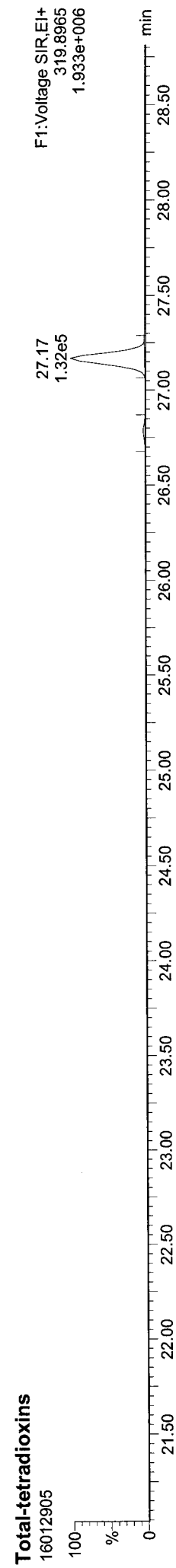
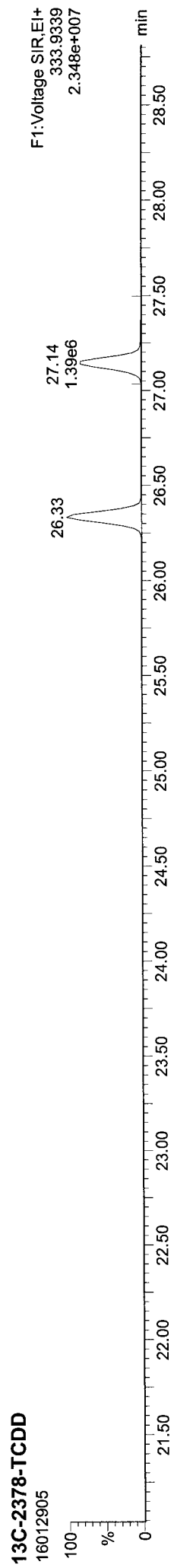
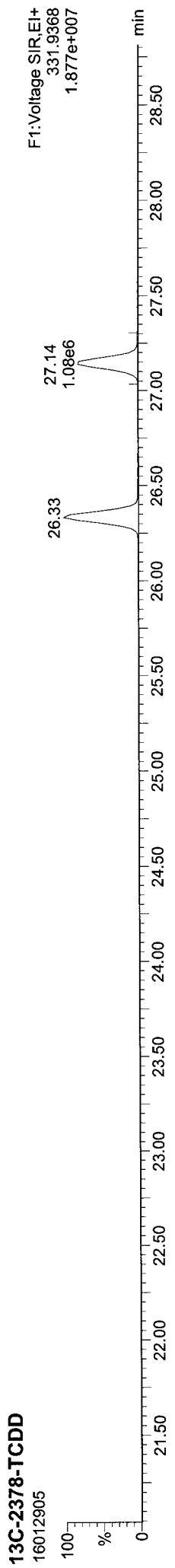
ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

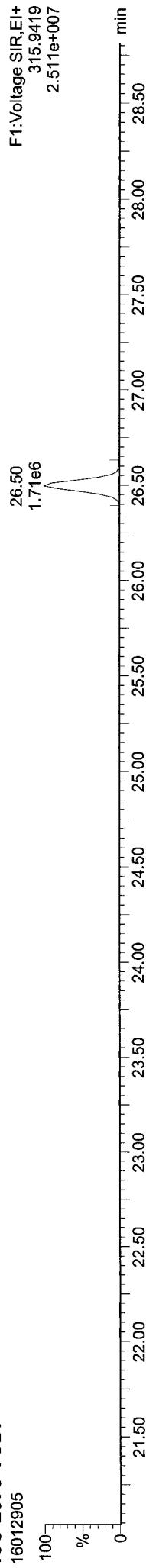
ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk



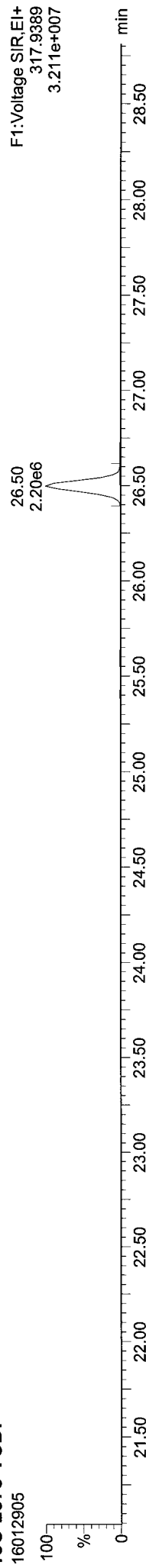
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

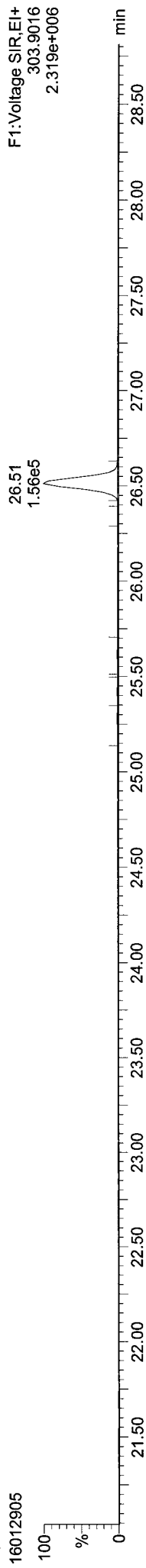
13C-2378-TCDF



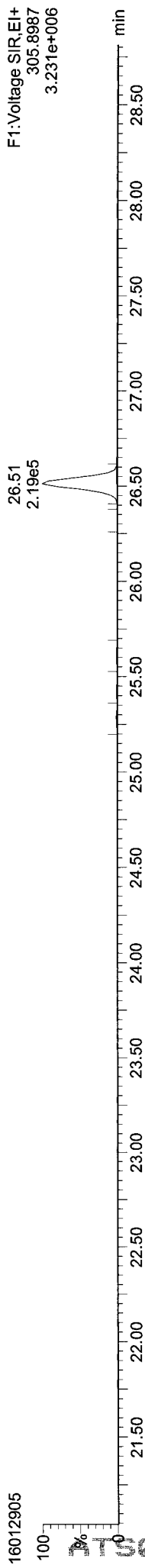
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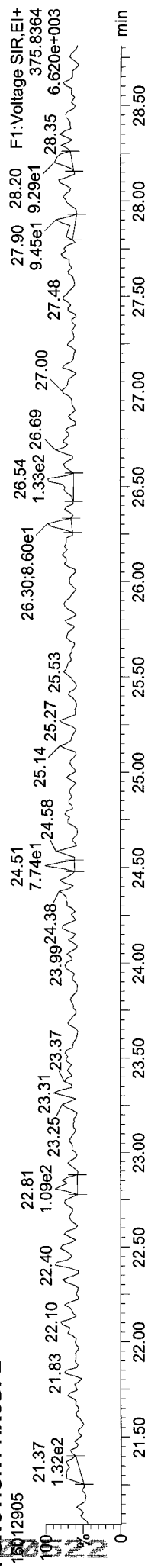
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



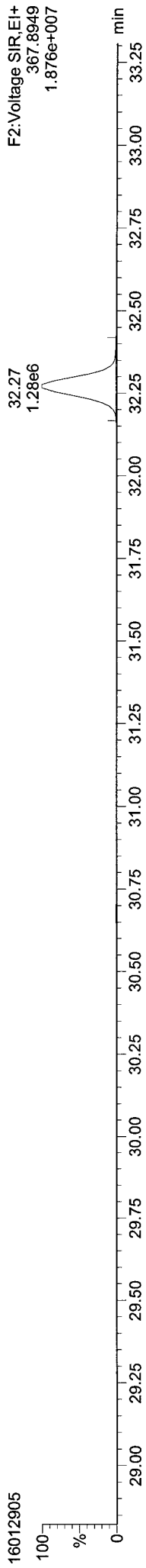
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

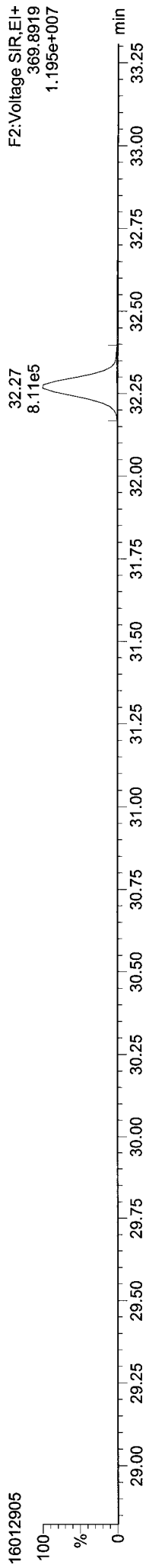
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

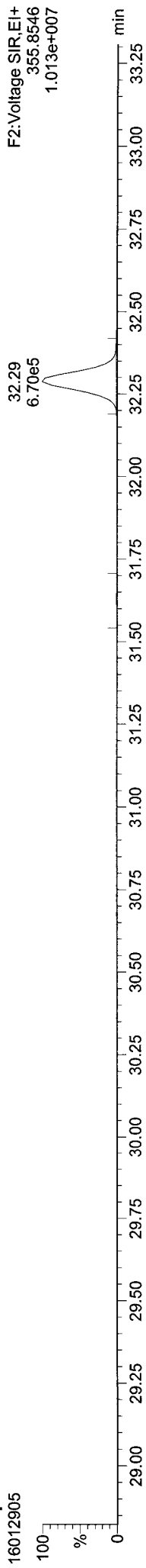
13C-12378-PeCDD



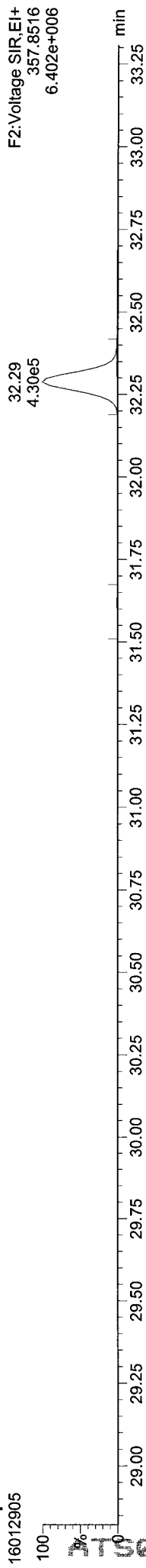
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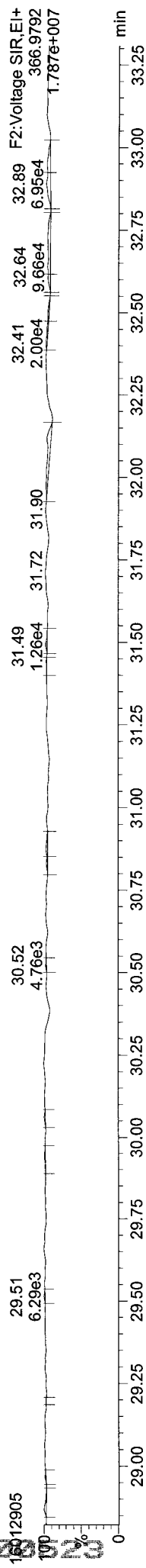
Total-pentadioxins



Total-pentadioxins



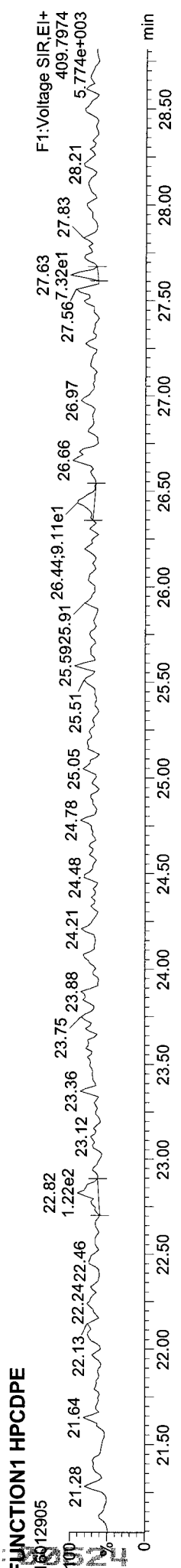
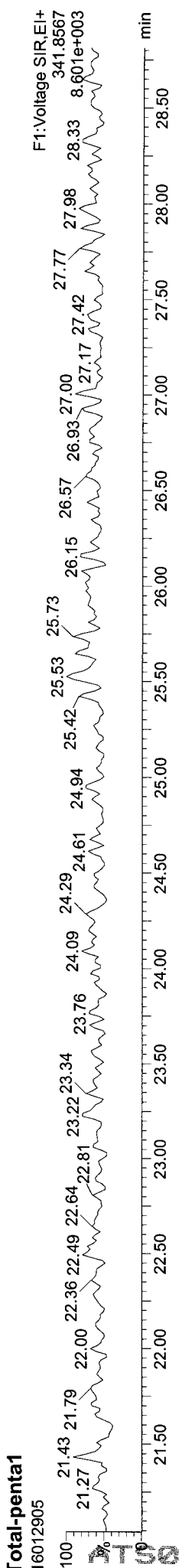
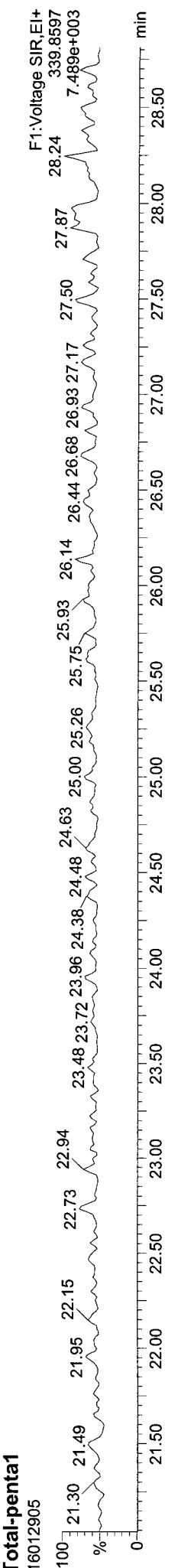
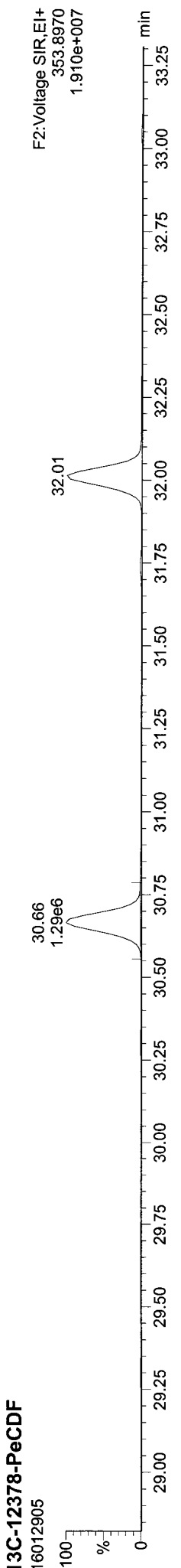
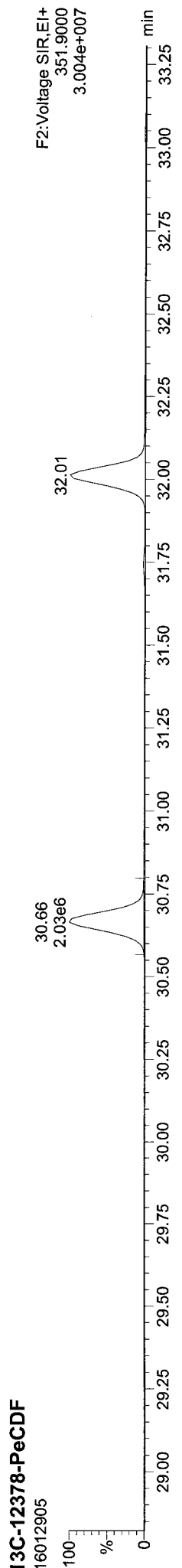
FUNCTION2 PFK



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

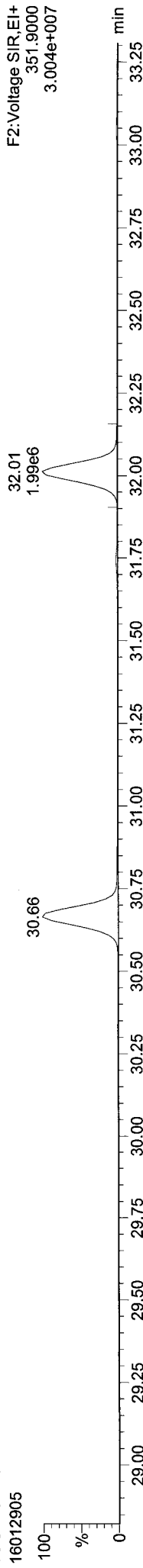
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

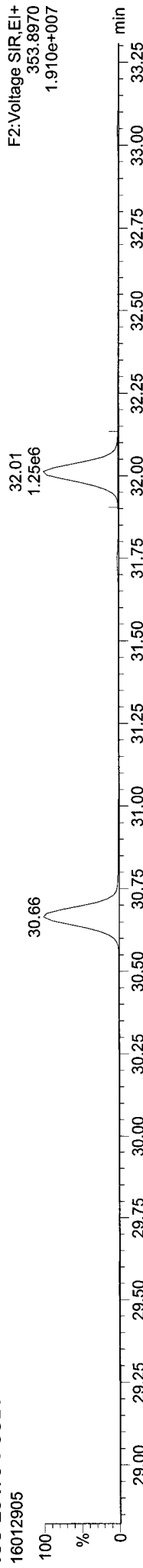
13C-23478-PeCDF

16012905



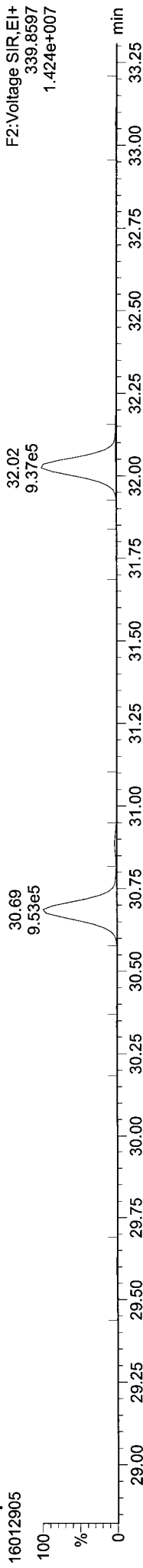
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16012905



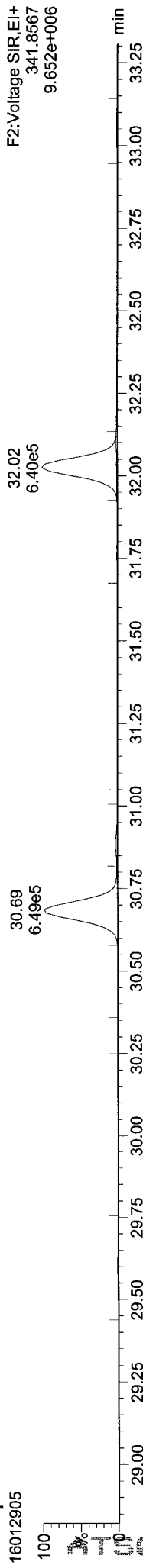
Total-pentafurans

16012905



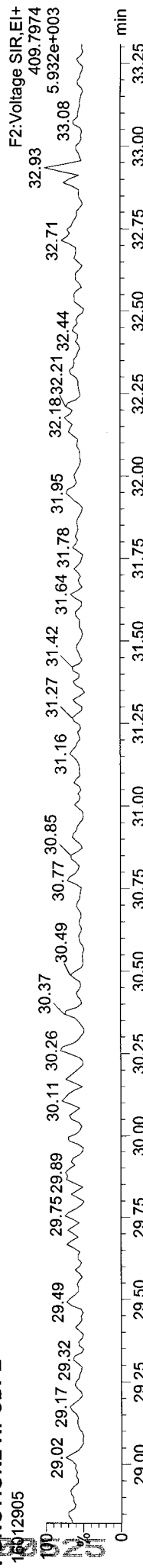
Total-pentafurans

16012905



FUNCTION2 HPCDPE

16012905

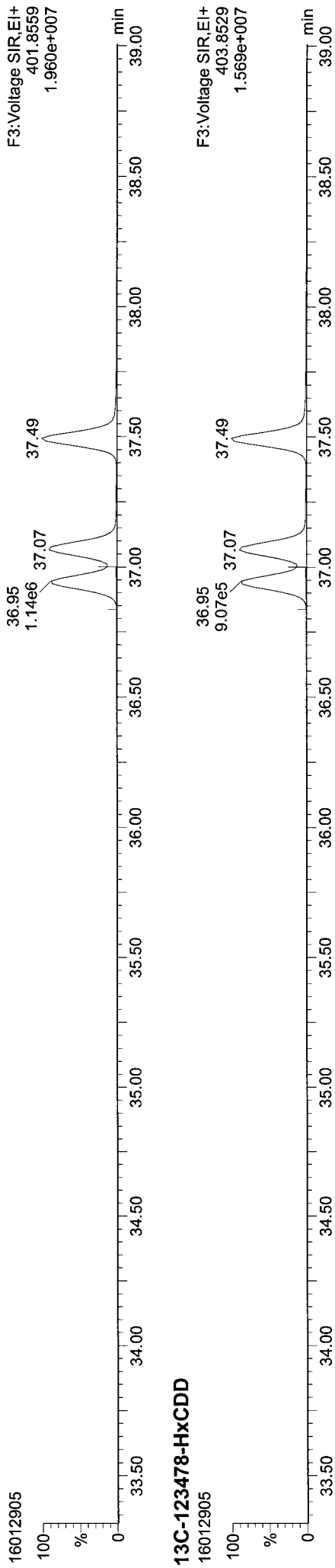


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

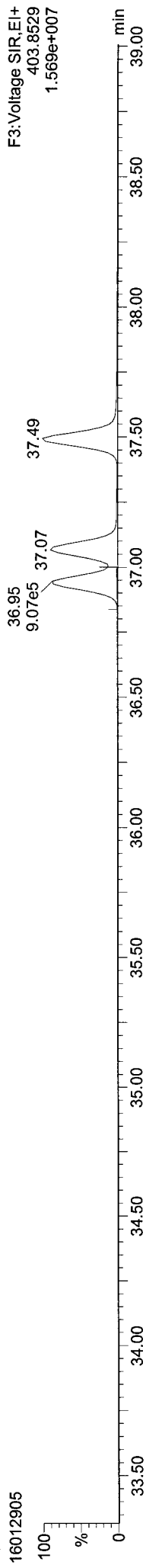
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

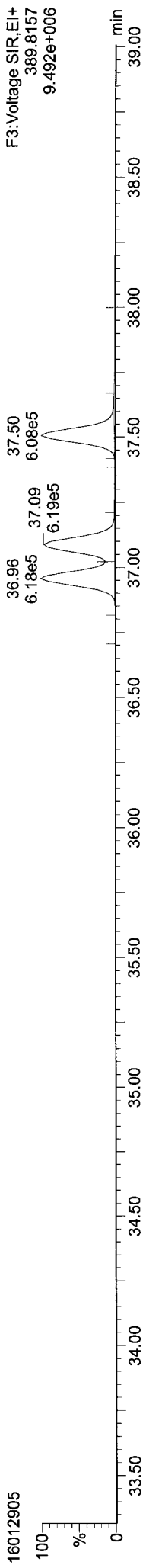
13C-123478-HxCDD



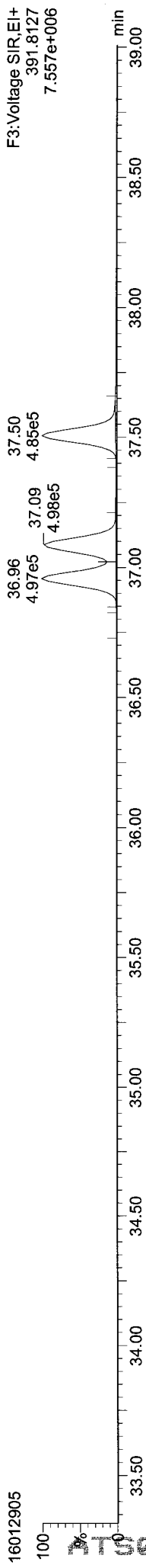
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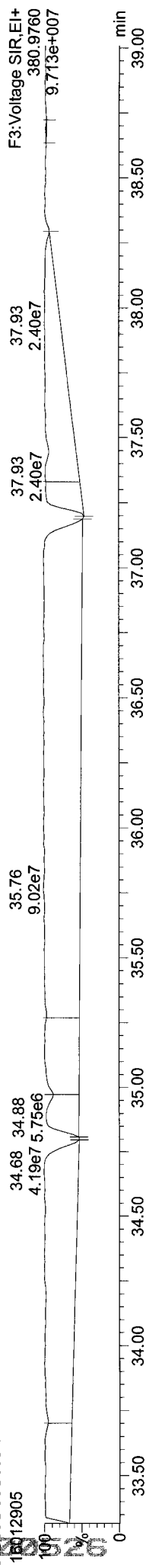
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx V4.1 SCN909

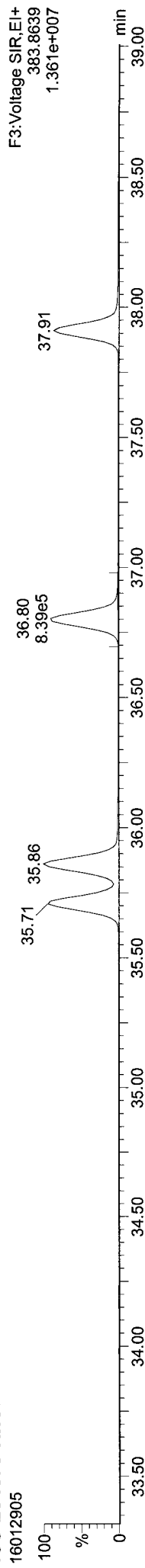
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

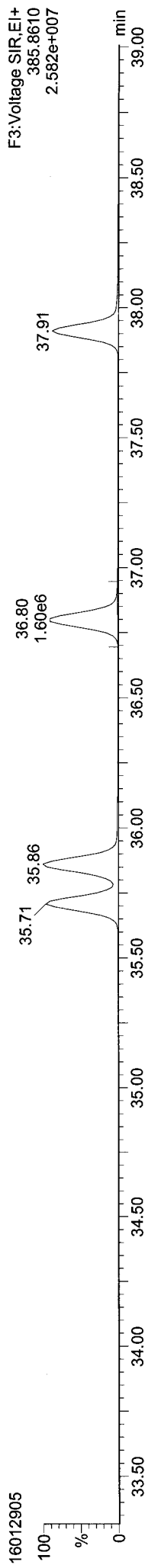
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

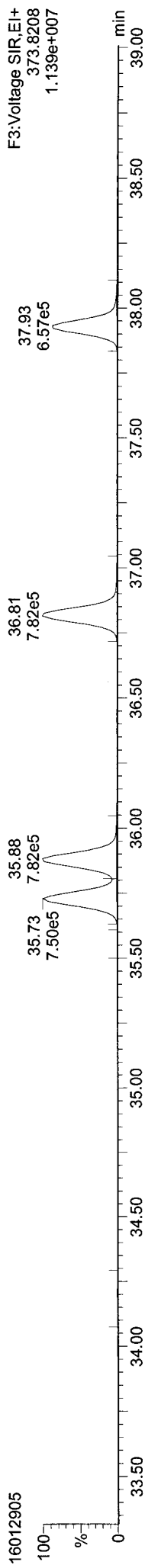
13C-234678-HxCDF



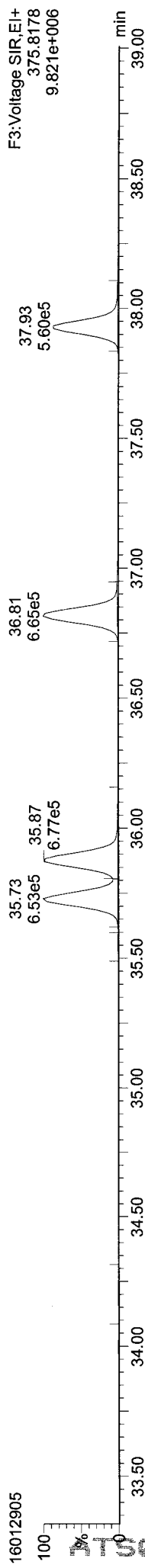
13C-234678-HxCDF



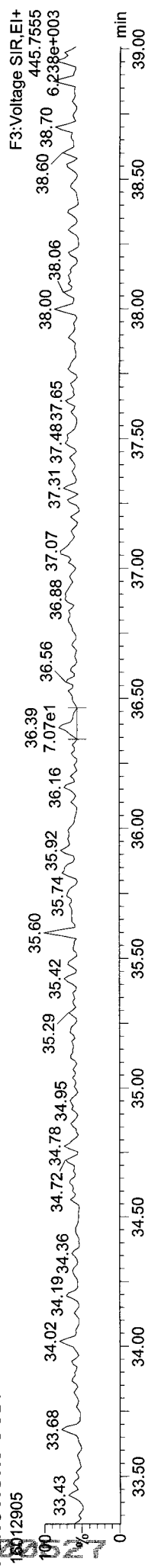
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

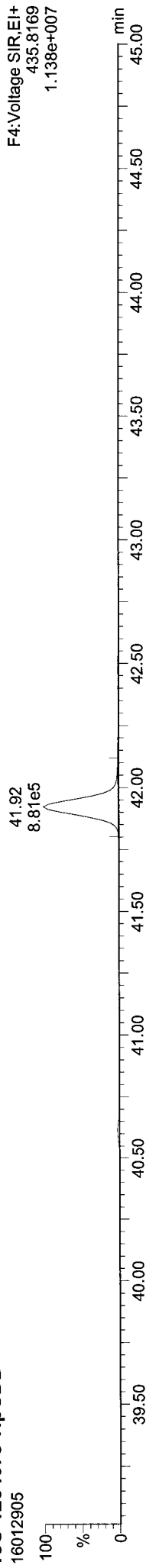


Quantify Sample Report MassLynx V4.1 SCN909

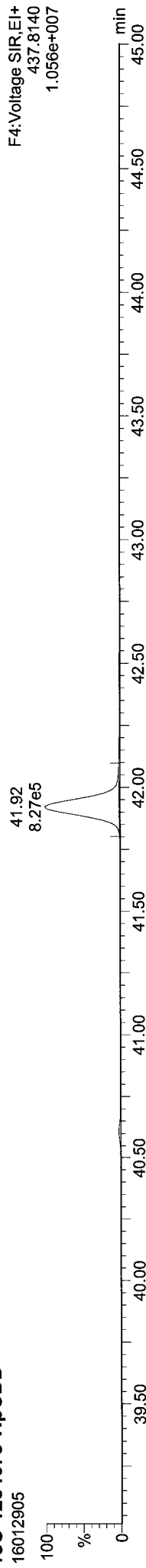
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

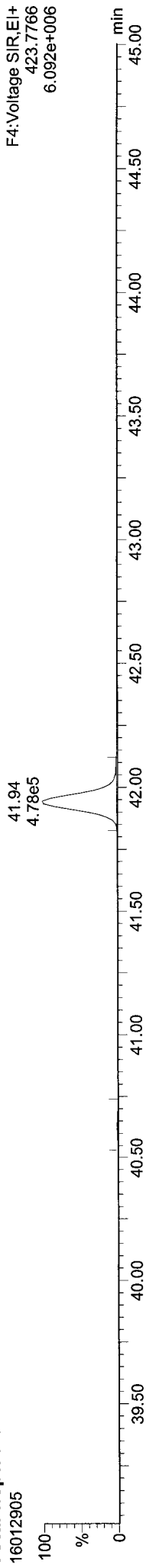
13C-1234678-HpCDD



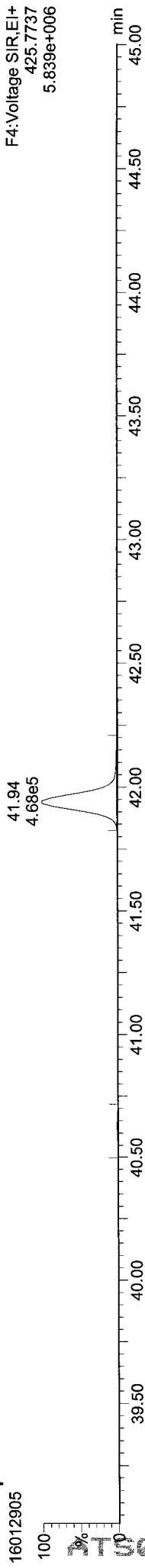
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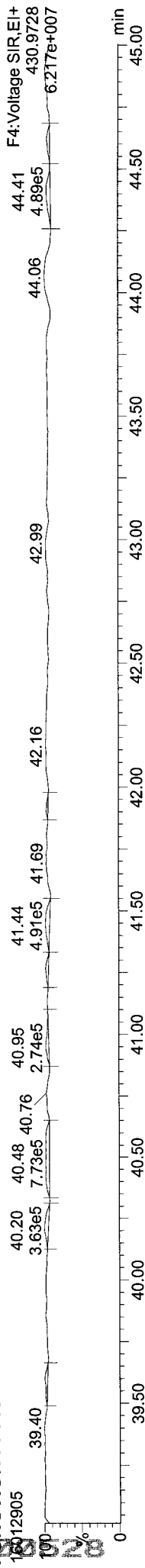
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

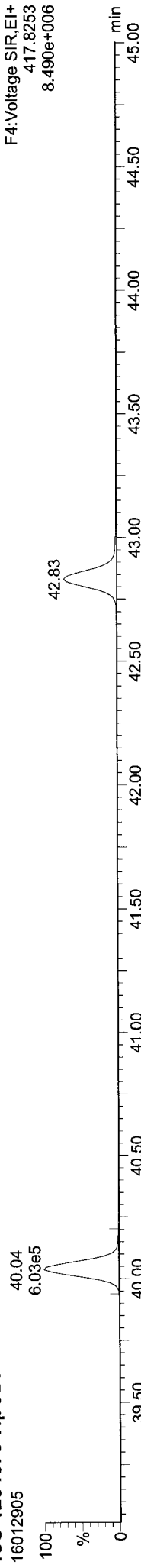
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

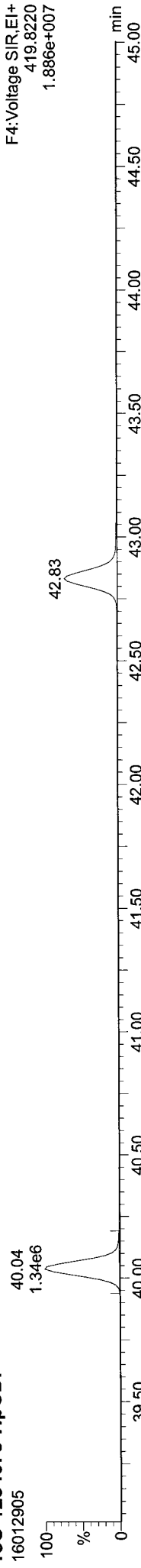
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

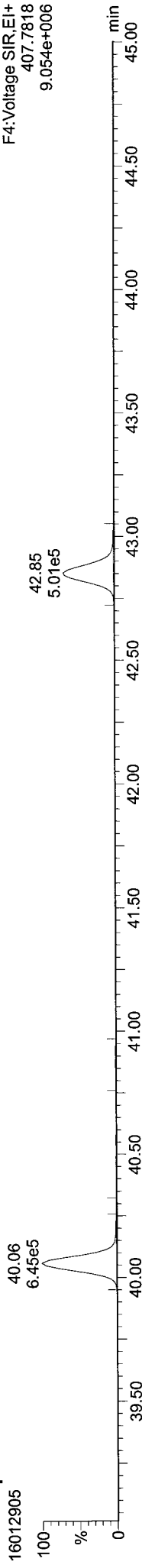
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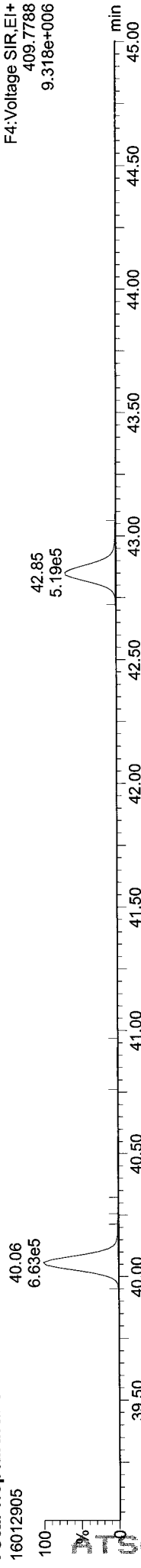
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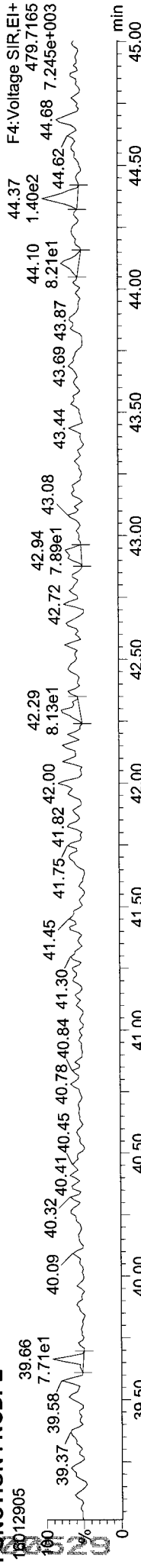
Total-heptafulurans



Total-heptafulurans

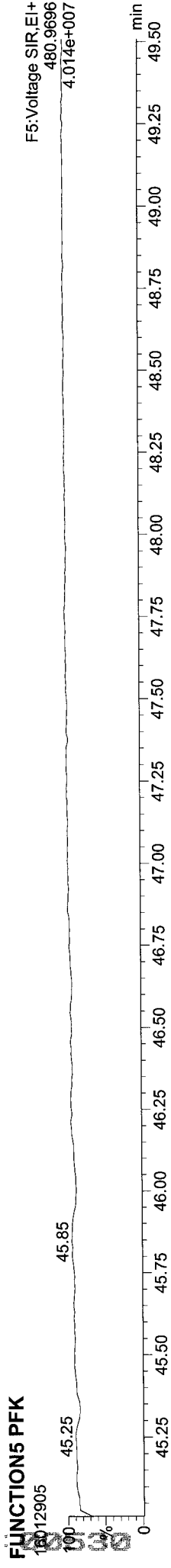
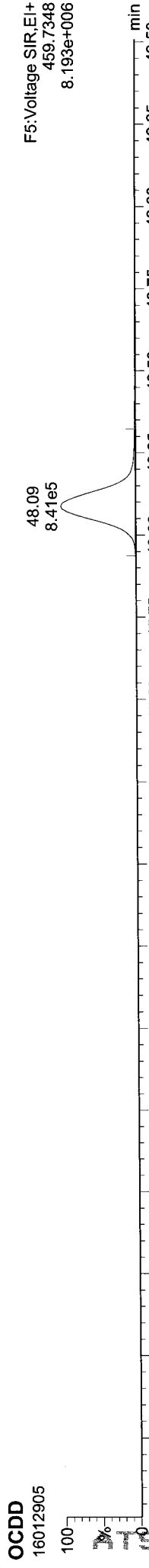
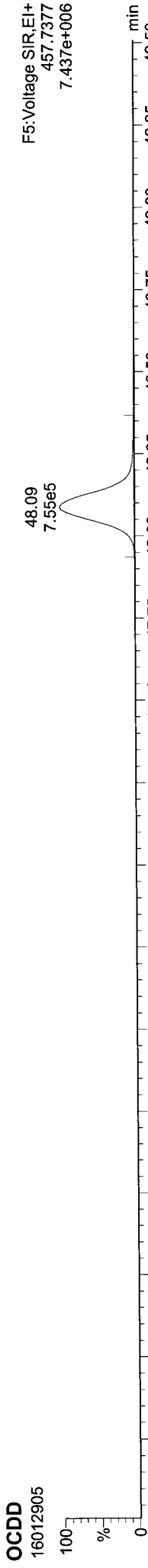
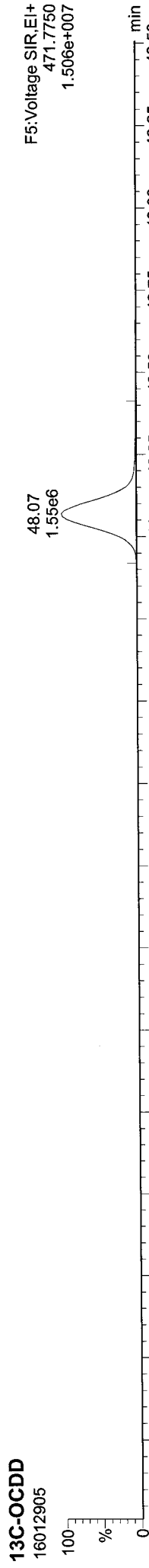
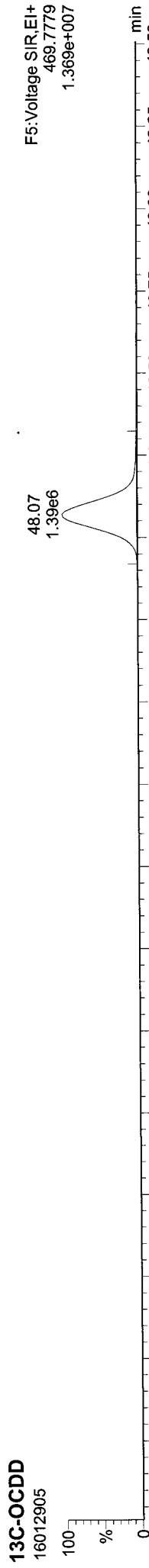


FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT50OPR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk



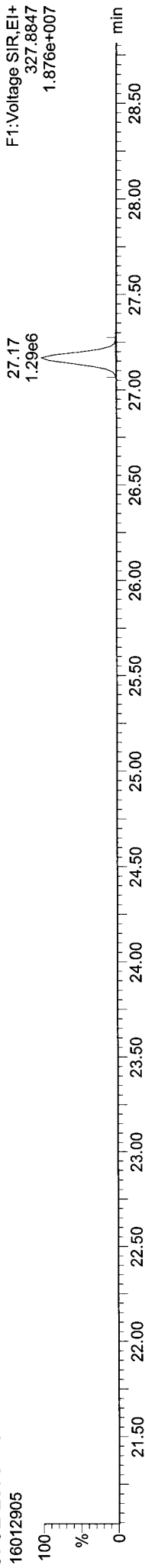
Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

ID: AT500PR, Name: 16012905, Date: 29-Jan-2016, Time: 15:20:03, Conditions: AUTOSPEC01, User: pk

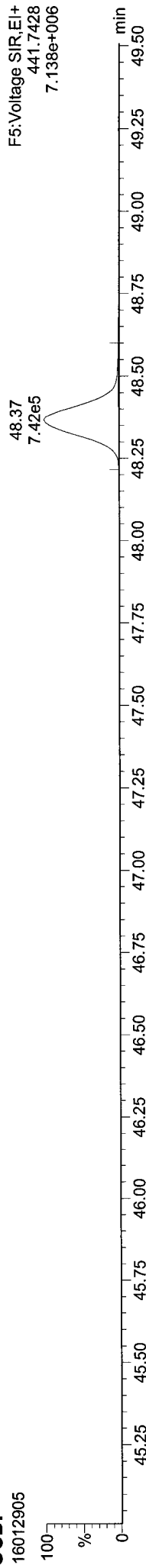
37CL-2378-TCDD

16012905



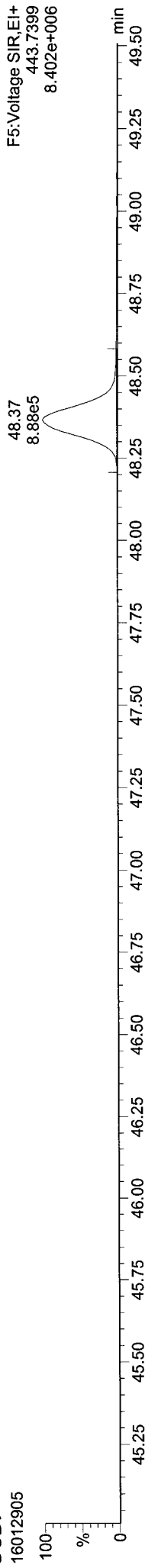
OCDF

16012905



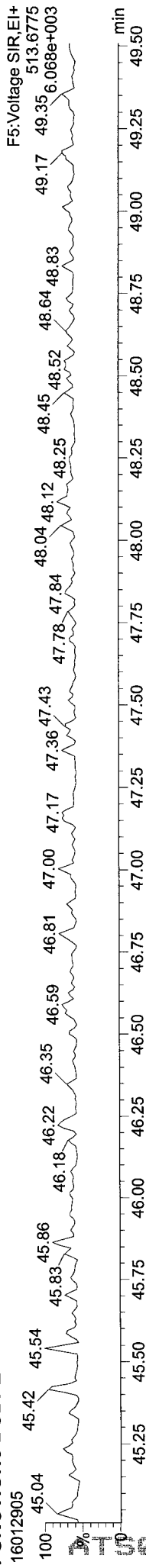
OCDF

16012905



FUNCTION5 DCDPE

16012905



**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50A
 Lab.File ID: 16012907
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.019
12378-PeCDD	356/358	0.00			0.026
123478-HxCDD	390/392	0.00			0.024
123678-HxCDD	390/392	37.10	0.0404		
123789-HxCDD	390/392	0.00			0.025
1234678-HpCDD	424/426	41.92	0.506		
OCDD	458/460	48.05	6.79		
2378-TCDF	304/306	26.51	0.0792	0.0570	
12378-PeCDF	340/342	30.70	0.0234	0.0160	
23478-PeCDF	340/342	32.01	0.0232		
123478-HxCDF	374/376	0.00			0.025
234678-HxCDF	374/376	0.00			0.023
123678-HxCDF	374/376	0.00			0.024
123789-HxCDF	374/376	37.92	0.0371		
1234678-HpCDF	408/410	40.05	0.0636		
1234789-HpCDF	408/410	0.00			0.019
OCDF	442/444	48.34	0.188		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.512	1.001	8.06e2	1.79e3	0.827	0.450	0.770	1569	2770	1.18e4	2.15e4	7.5	YES	0.057	0.079
12378-PeCDF	30.698	1.001	2.58e2	3.71e2	0.824	0.695	1.550	1142	1775	6.15e3	8.23e3	5.4	YES	0.016	0.023
23478-PeCDF	32.013	1.000	3.83e2	2.38e2	0.850	1.607	1.550	1142	1775	6.01e3	4.65e3	5.3	NO	0.023	0.023
123478-HxCDF				0.973			1.240	1385	1553						
234678-HxCDF				1.025			1.240	1385	1553						
123678-HxCDF				0.953			1.240	1385	1553						
123789-HxCDF	37.921	1.000	4.66e2	3.72e2	0.956	1.253	1.240	1385	1553	6.77e3	5.97e3	4.9	NO	0.037	0.037
1234678-HpCDF	40.048	1.000	8.15e2	7.67e2	1.153	1.062	1.050	818	759	1.28e4	1.27e4	15.7	NO	0.064	0.064
1234789-HpCDF				1.131			1.050	818	759						
OCDF	48.340	1.006	1.45e3	1.64e3	1.023	0.883	0.890	855	1176	1.65e4	1.69e4	19.3	NO	0.188	0.188
2378-TCDD				1.023			0.770	1234	1023						
12378-PeCDD				0.939			1.550	1496	919						
123478-HxCDD				0.963			1.240	819	1545						
123678-HxCDD	37.099	1.001	4.49e2	3.86e2	0.894	1.164	1.240	819	1545	6.22e3	6.36e3	7.6	NO	0.040	0.040
123789-HxCDD				0.900			1.240	819	1545						
1234678-HpCDD	41.922	1.001	4.56e3	4.87e3	0.964	0.937	1.050	1089	791	5.92e4	6.24e4	54.4	NO	0.506	0.506
OCDD	48.053	1.000	4.86e4	5.71e4	0.969	0.851	0.890	641	1400	4.70e5	5.29e5	734.3	NO	6.794	6.794
13C-2378-TCDF	26.497	1.006	1.73e6	2.23e6	1.502	0.776	0.770	8013	4208	2.55e7	3.27e7	3179.6	NO	97.213	97.213
13C-12378-PeCDF	30.665	1.165	2.00e6	1.26e6	1.215	1.582	1.550	5604	2758	2.99e7	1.89e7	5339.5	NO	98.838	98.838
13C-23478-PeCDF	32.002	1.215	1.93e6	1.22e6	1.181	1.581	1.550	5604	2758	2.90e7	1.83e7	5178.7	NO	98.142	98.142
13C-123478-HxCDF	35.707	0.953	8.35e5	1.62e6	1.246	0.516	0.510	2329	4185	1.23e7	2.37e7	5292.9	NO	85.281	85.281
13C-123678-HxCDF	35.849	0.956	9.15e5	1.75e6	1.375	0.522	0.510	2329	4185	1.34e7	2.55e7	5757.9	NO	84.117	84.117
13C-234678-HxCDF	36.792	0.982	8.67e5	1.69e6	1.186	0.513	0.510	2329	4185	1.26e7	2.46e7	5415.5	NO	93.387	93.387
13C-123789-HxCDF	37.910	1.011	8.19e5	1.54e6	1.135	0.531	0.510	2329	4185	1.21e7	2.29e7	5196.1	NO	90.226	90.226
13C-1234678-HpCDF	40.037	1.068	6.71e5	1.49e6	1.020	0.452	0.440	2141	2975	9.56e6	2.10e7	4466.0	NO	91.578	91.578
13C-1234789-HpCDF	42.810	1.142	5.74e5	1.26e6	0.824	0.454	0.440	2141	2975	6.88e6	1.53e7	3211.7	NO	96.726	96.726
13C-1234-TCDD	26.332	0.000	1.19e6	1.52e6	1.000	0.785	0.770	3562	1442	1.75e7	2.23e7	4926.0	NO	100.000	100.000
13C-2378-TCDD	27.139	1.031	1.07e6	1.34e6	0.983	0.796	0.770	3562	1442	1.52e7	1.95e7	4273.8	NO	90.110	90.110
13C-12378-PeCDD	32.265	1.225	1.23e6	7.78e5	0.787	1.578	1.550	1330	1212	1.82e7	1.16e7	13716.7	NO	93.837	93.837
13C-123478-HxCDD	36.935	0.985	1.17e6	9.20e5	1.031	1.272	1.240	1794	2294	1.71e7	1.35e7	9506.8	NO	87.840	87.840
13C-123678-HxCDD	37.066	0.989	1.27e6	1.04e6	1.137	1.227	1.240	1794	2294	1.84e7	1.49e7	10259.2	NO	88.011	88.011
13C-1234678-HpCDD	41.900	1.118	9.95e5	9.38e5	0.892	1.061	1.050	2495	2862	1.24e7	1.17e7	4958.2	NO	93.930	93.930
13C-OCDD	48.035	1.282	1.51e6	1.71e6	0.852	0.885	0.890	2262	2357	1.45e7	1.61e7	6416.0	NO	163.520	163.520

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.483	0.000	1.28e6	1.02e6	1.000	1.252	1.240	1794	2294	1.91e7	1.53e7	10654.0	NO		100.000
Total-tetrafurans			6.64e3		0.827			1569		1.01e5					0.570
Total-penta1			8.49e2					905		1.06e4					0.056
Total-pentafurans			1.96e3		0.837			1142		2.53e4					0.130
Total-hexafurans			1.24e3		0.977			1385		1.83e4					0.106
Total-heptafurans			1.79e3		1.142			818		2.87e4					0.148
Total-Furans			1.42e4		0.971			1569		2.06e5					1.209
Total-tetra-dioxins			3.73e3		1.023			1234		6.19e4					0.307
Total-pentadioxins			0.00e0		0.939			1496		0.00e0					
Total-hexadioxins			2.79e3		0.919			819		4.55e4					0.247
Total-heptadioxins			5.56e4		0.964			1089		7.25e5					5.867
Total-Dioxins			1.11e5		0.950			1234		1.30e6					13.214
Total-TEQ			1.25e5					1234		1.51e6					14.423
37CL-2378-TCDD	27.169	1.032	1.21e6		1.091			1743		1.73e7		9933.8			40.892
FUNCTION1 PFK			4.65e7					800778		1.74e8					
FUNCTION2 PFK			1.47e5					164929		5.11e6					0.000
FUNCTION3 PFK			2.73e6					788881		1.73e7					0.000
FUNCTION4 PFK			4.14e5					420922		4.00e6					
FUNCTION5 PFK			1.39e7					445769		1.75e7					
FUNCTION1 HXCDPE			2.21e4					792		3.00e5					0.000
FUNCTION1 HPCDPE			2.83e3					886		4.18e4					0.000
FUNCTION2 HPCDPE			3.02e2					980		8.14e3					0.000
FUNCTION3 OCDPE			0.00e0					597		0.00e0					
FUNCTION4 NCDPE			1.01e3					956		1.53e4					0.000
FUNCTION5 DCDPE			0.00e0					522		0.00e0					

AT50 : 00534

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.78	1323.626	0.827	0.040		0.41	0.77	YES	4.0
2	35 Total-tetrafurans	303.9016	24.27	1614.733	0.827	0.049		0.43	0.77	YES	4.8
3	35 Total-tetrafurans	303.9016	24.15	1580.564	0.827	0.048		0.45	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	24.08	1378.597	0.827	0.042		0.70	0.77	NO	5.4
5	35 Total-tetrafurans	303.9016	23.85	2175.125	0.827	0.066		0.60	0.77	YES	7.3
6	35 Total-tetrafurans	303.9016	23.28	1135.682	0.827	0.035		0.50	0.77	YES	4.8
7	35 Total-tetrafurans	303.9016	23.02	998.905	0.827	0.030		0.39	0.77	YES	3.2
8	35 Total-tetrafurans	303.9016	26.74	2086.181	0.827	0.064		0.77	0.77	NO	7.7
9	1 2378-TCDF	303.9016	26.51	2597.514	0.827	0.079	0.057	0.45	0.77	YES	7.5
10	35 Total-tetrafurans	303.9016	25.41	1575.484	0.827	0.048		0.64	0.77	YES	5.9
11	35 Total-tetrafurans	303.9016	25.27	648.300	0.827	0.020		0.86	0.77	NO	4.0
12	35 Total-tetrafurans	303.9016	25.20	1563.193	0.827	0.048		0.63	0.77	YES	4.1

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.96	1647.873		0.056		1.06	1.55	YES	11.7

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	29.56	2225.996	0.837	0.083		1.46	1.55	NO	11.5
2	3 23478-PeCDF	339.8597	32.01	620.849	0.850	0.023	0.023	1.61	1.55	NO	5.3
3	2 12378-PeCDF	339.8597	30.70	629.583	0.824	0.023	0.016	0.69	1.55	YES	5.4

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	38 Total-hexafurans	373.8208	35.06	920.432	0.977	0.038		0.70	1.24	YES	3.8
2	38 Total-hexafurans	373.8208	34.19	775.727	0.977	0.032		1.02	1.24	YES	4.6
3	7 123789-HxCDF	373.8208	37.92	837.487	0.956	0.037	0.037	1.25	1.24	NO	4.9

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.85	1671.015	1.142	0.073		1.00	1.05	NO	14.5
2	39 Total-heptafurans	407.7818	40.11	255.110	1.142	0.011		1.14	1.05	NO	4.8
3	8 1234678-HpCDF	407.7818	40.05	1582.561	1.153	0.064	0.064	1.06	1.05	NO	15.7

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.78	1323.626	0.827	0.040		0.41	0.77	YES	4.0
2	35 Total-tetrafurans	303.9016	24.27	1614.733	0.827	0.049		0.43	0.77	YES	4.8
3	35 Total-tetrafurans	303.9016	24.15	1580.564	0.827	0.048		0.45	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	24.08	1378.597	0.827	0.042		0.70	0.77	NO	5.4
5	35 Total-tetrafurans	303.9016	23.85	2175.125	0.827	0.066		0.60	0.77	YES	7.3
6	35 Total-tetrafurans	303.9016	23.28	1135.682	0.827	0.035		0.50	0.77	YES	4.8
7	35 Total-tetrafurans	303.9016	23.02	998.905	0.827	0.030		0.39	0.77	YES	3.2
8	40 Total-Furans	303.9016	21.95	262.474	0.971	0.007		1.05	0.77	YES	1.6
9	35 Total-tetrafurans	303.9016	26.74	2086.181	0.827	0.064		0.77	0.77	NO	7.7
10	1 2378-TCDF	303.9016	26.51	2597.514	0.827	0.079	0.057	0.45	0.77	YES	7.5
11	35 Total-tetrafurans	303.9016	25.41	1575.484	0.827	0.048		0.64	0.77	YES	5.9
12	35 Total-tetrafurans	303.9016	25.27	648.300	0.827	0.020		0.86	0.77	NO	4.0
13	35 Total-tetrafurans	303.9016	25.20	1563.193	0.827	0.048		0.63	0.77	YES	4.1
14	40 Total-Furans	303.9016	28.59	165.553	0.971	0.004		1.36	0.77	YES	2.0
15	37 Total-pentafurans	339.8597	29.56	2225.996	0.837	0.083		1.46	1.55	NO	11.5
16	3 23478-PeCDF	339.8597	32.01	620.849	0.850	0.023	0.023	1.61	1.55	NO	5.3
17	2 12378-PeCDF	339.8597	30.70	629.583	0.824	0.023	0.016	0.69	1.55	YES	5.4
18	38 Total-hexafurans	373.8208	35.06	920.432	0.977	0.038		0.70	1.24	YES	3.8
19	38 Total-hexafurans	373.8208	34.19	775.727	0.977	0.032		1.02	1.24	YES	4.6
20	7 123789-HxCDF	373.8208	37.92	837.487	0.956	0.037	0.037	1.25	1.24	NO	4.9
21	10 OCDF	441.7428	48.34	3092.734	1.023	0.188	0.188	0.88	0.89	NO	19.3
22	39 Total-heptafurans	407.7818	40.85	1671.015	1.142	0.073		1.00	1.05	NO	14.5
23	39 Total-heptafurans	407.7818	40.11	255.110	1.142	0.011		1.14	1.05	NO	4.8
24	8 1234678-HpCDF	407.7818	40.05	1582.561	1.153	0.064	0.064	1.06	1.05	NO	15.7
25	36 Total-penta1	339.8597	27.96	1647.873		0.056		1.06	1.55	YES	11.7

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	24.57	1310.089	1.023	0.053		0.72	0.77	NO	7.4
2	41 Total-tetradiioxins	319.8965	24.30	3352.683	1.023	0.136		0.88	0.77	NO	19.8
3	41 Total-tetradiioxins	319.8965	26.80	1244.720	1.023	0.051		0.91	0.77	YES	7.7
4	41 Total-tetradiioxins	319.8965	26.50	917.364	1.023	0.037		3.02	0.77	YES	10.8
5	41 Total-tetradiioxins	319.8965	25.79	726.631	1.023	0.030		0.83	0.77	NO	4.6

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	14 123678-HxCDD	389.8157	37.10	834.425	0.894	0.040	0.040	1.16	1.24	NO	7.6
2	43 Total-hexadiioxins	389.8157	36.00	1205.350	0.919	0.060		0.76	1.24	YES	16.1
3	43 Total-hexadiioxins	389.8157	34.80	2967.431	0.919	0.147		1.58	1.24	YES	31.9

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.92	9433.326	0.964	0.506	0.506	0.94	1.05	NO	54.4
2	44 Total-heptadioxins	423.7766	40.80	315.678	0.964	0.017		1.52	1.05	YES	5.0
3	44 Total-heptadioxins	423.7766	40.62	99590.953	0.964	5.344		1.04	1.05	NO	606.6

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	24.57	1310.089	1.023	0.053		0.72	0.77	NO	7.4
2	41 Total-tetradioxins	319.8965	24.30	3352.683	1.023	0.136		0.88	0.77	NO	19.8
3	41 Total-tetradioxins	319.8965	26.80	1244.720	1.023	0.051		0.91	0.77	YES	7.7
4	41 Total-tetradioxins	319.8965	26.50	917.364	1.023	0.037		3.02	0.77	YES	10.8
5	41 Total-tetradioxins	319.8965	25.79	726.631	1.023	0.030		0.83	0.77	NO	4.6
6	14 123678-HxCDD	389.8157	37.10	834.425	0.894	0.040	0.040	1.16	1.24	NO	7.6
7	43 Total-hexadioxins	389.8157	36.00	1205.350	0.919	0.060		0.76	1.24	YES	16.1
8	43 Total-hexadioxins	389.8157	34.80	2967.431	0.919	0.147		1.58	1.24	YES	31.9
9	16 1234678-HpCDD	423.7766	41.92	9433.326	0.964	0.506	0.506	0.94	1.05	NO	54.4
10	44 Total-heptadioxins	423.7766	40.80	315.678	0.964	0.017		1.52	1.05	YES	5.0
11	44 Total-heptadioxins	423.7766	40.62	99590.953	0.964	5.344		1.04	1.05	NO	606.6
12	17 OCDD	457.7377	48.05	105757.547	0.969	6.794	6.794	0.85	0.89	NO	734.3

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.78	1323.626	0.827	0.040		0.41	0.77	YES	4.0
2	35 Total-tetrafurans	303.9016	24.27	1614.733	0.827	0.049		0.43	0.77	YES	4.8
3	35 Total-tetrafurans	303.9016	24.15	1580.564	0.827	0.048		0.45	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	24.08	1378.597	0.827	0.042		0.70	0.77	NO	5.4
5	35 Total-tetrafurans	303.9016	23.85	2175.125	0.827	0.066		0.60	0.77	YES	7.3
6	35 Total-tetrafurans	303.9016	23.28	1135.682	0.827	0.035		0.50	0.77	YES	4.8
7	35 Total-tetrafurans	303.9016	23.02	998.905	0.827	0.030		0.39	0.77	YES	3.2
8	40 Total-Furans	303.9016	21.95	262.474	0.971	0.007		1.05	0.77	YES	1.6
9	35 Total-tetrafurans	303.9016	26.74	2086.181	0.827	0.064		0.77	0.77	NO	7.7
10	1 2378-TCDF	303.9016	26.51	2597.514	0.827	0.079	0.057	0.45	0.77	YES	7.5
11	35 Total-tetrafurans	303.9016	25.41	1575.484	0.827	0.048		0.64	0.77	YES	5.9
12	35 Total-tetrafurans	303.9016	25.27	648.300	0.827	0.020		0.86	0.77	NO	4.0
13	35 Total-tetrafurans	303.9016	25.20	1563.193	0.827	0.048		0.63	0.77	YES	4.1
14	40 Total-Furans	303.9016	28.59	165.553	0.971	0.004		1.36	0.77	YES	2.0
15	37 Total-pentafurans	339.8597	29.56	2225.996	0.837	0.083		1.46	1.55	NO	11.5
16	3 23478-PeCDF	339.8597	32.01	620.849	0.850	0.023	0.023	1.61	1.55	NO	5.3
17	2 12378-PeCDF	339.8597	30.70	629.583	0.824	0.023	0.016	0.69	1.55	YES	5.4
18	38 Total-hexafurans	373.8208	35.06	920.432	0.977	0.038		0.70	1.24	YES	3.8
19	38 Total-hexafurans	373.8208	34.19	775.727	0.977	0.032		1.02	1.24	YES	4.6
20	7 123789-HxCDF	373.8208	37.92	837.487	0.956	0.037	0.037	1.25	1.24	NO	4.9
21	10 OCDF	441.7428	48.34	3092.734	1.023	0.188	0.188	0.88	0.89	NO	19.3
22	39 Total-heptafurans	407.7818	40.85	1671.015	1.142	0.073		1.00	1.05	NO	14.5
23	39 Total-heptafurans	407.7818	40.11	255.110	1.142	0.011		1.14	1.05	NO	4.8
24	8 1234678-HpCDF	407.7818	40.05	1582.561	1.153	0.064	0.064	1.06	1.05	NO	15.7
25	36 Total-penta1	339.8597	27.96	1647.873		0.056		1.06	1.55	YES	11.7
26	41 Total-tetradiioxins	319.8965	24.57	1310.089	1.023	0.053		0.72	0.77	NO	7.4
27	41 Total-tetradiioxins	319.8965	24.30	3352.683	1.023	0.136		0.88	0.77	NO	19.8
28	41 Total-tetradiioxins	319.8965	26.80	1244.720	1.023	0.051		0.91	0.77	YES	7.7
29	41 Total-tetradiioxins	319.8965	26.50	917.364	1.023	0.037		3.02	0.77	YES	10.8
30	41 Total-tetradiioxins	319.8965	25.79	726.631	1.023	0.030		0.83	0.77	NO	4.6
31	14 123678-HxCDD	389.8157	37.10	834.425	0.894	0.040	0.040	1.16	1.24	NO	7.6
32	43 Total-hexadiioxins	389.8157	36.00	1205.350	0.919	0.060		0.76	1.24	YES	16.1
33	43 Total-hexadiioxins	389.8157	34.80	2967.431	0.919	0.147		1.58	1.24	YES	31.9
34	16 1234678-HpCDD	423.7766	41.92	9433.326	0.964	0.506	0.506	0.94	1.05	NO	54.4
35	44 Total-heptadiioxins	423.7766	40.80	315.678	0.964	0.017		1.52	1.05	YES	5.0
36	44 Total-heptadiioxins	423.7766	40.62	99590.953	0.964	5.344		1.04	1.05	NO	606.6
37	17 OCDD	457.7377	48.05	105757.547	0.969	6.794	6.794	0.85	0.89	NO	734.3

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	22.10	0.000							29.7
2	48 FUNCTION1 PFK	330.9792	21.46	0.000							56.9
3	48 FUNCTION1 PFK	330.9792	21.33	0.000							62.1
4	48 FUNCTION1 PFK	330.9792	21.12	0.000							69.0

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

PFK2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	31.59	0.000	0.000					1.2
2	49 FUNCTION2 PFK	366.9792	31.31	0.000	0.000					1.6
3	49 FUNCTION2 PFK	366.9792	31.20	0.000	0.000					1.6
4	49 FUNCTION2 PFK	366.9792	31.00	0.000	0.000					1.2
5	49 FUNCTION2 PFK	366.9792	30.88	0.000	0.000					1.2
6	49 FUNCTION2 PFK	366.9792	30.71	0.000	0.000					1.6
7	49 FUNCTION2 PFK	366.9792	30.54	0.000	0.000					1.3
8	49 FUNCTION2 PFK	366.9792	30.29	0.000	0.000					0.7
9	49 FUNCTION2 PFK	366.9792	30.25	0.000	0.000					0.4
10	49 FUNCTION2 PFK	366.9792	30.12	0.000	0.000					1.7
11	49 FUNCTION2 PFK	366.9792	30.03	0.000	0.000					1.3
12	49 FUNCTION2 PFK	366.9792	29.95	0.000	0.000					1.0
13	49 FUNCTION2 PFK	366.9792	29.62	0.000	0.000					1.9
14	49 FUNCTION2 PFK	366.9792	29.38	0.000	0.000					1.7
15	49 FUNCTION2 PFK	366.9792	29.28	0.000	0.000					1.1
16	49 FUNCTION2 PFK	366.9792	29.01	0.000	0.000					1.0
17	49 FUNCTION2 PFK	366.9792	32.85	0.000	0.000					0.9
18	49 FUNCTION2 PFK	366.9792	32.81	0.000	0.000					0.5
19	49 FUNCTION2 PFK	366.9792	32.74	0.000	0.000					0.4
20	49 FUNCTION2 PFK	366.9792	32.64	0.000	0.000					0.5
21	49 FUNCTION2 PFK	366.9792	32.60	0.000	0.000					0.5
22	49 FUNCTION2 PFK	366.9792	32.48	0.000	0.000					0.9
23	49 FUNCTION2 PFK	366.9792	32.37	0.000	0.000					0.6
24	49 FUNCTION2 PFK	366.9792	32.34	0.000	0.000					0.5
25	49 FUNCTION2 PFK	366.9792	32.30	0.000	0.000					0.6
26	49 FUNCTION2 PFK	366.9792	32.22	0.000	0.000					1.2
27	49 FUNCTION2 PFK	366.9792	32.11	0.000	0.000					0.6
28	49 FUNCTION2 PFK	366.9792	32.00	0.000	0.000					1.0
29	49 FUNCTION2 PFK	366.9792	31.85	0.000	0.000					0.8
30	49 FUNCTION2 PFK	366.9792	31.68	0.000	0.000					1.4

PFK3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.19	0.000	0.000					1.2
2	50 FUNCTION3 PFK	380.9760	37.82	0.000	0.000					2.2
3	50 FUNCTION3 PFK	380.9760	37.66	0.000	0.000					4.9
4	50 FUNCTION3 PFK	380.9760	37.30	0.000	0.000					6.5
5	50 FUNCTION3 PFK	380.9760	36.76	0.000	0.000					2.1
6	50 FUNCTION3 PFK	380.9760	36.36	0.000	0.000					1.1
7	50 FUNCTION3 PFK	380.9760	36.12	0.000	0.000					0.9
8	50 FUNCTION3 PFK	380.9760	35.48	0.000	0.000					1.4
9	50 FUNCTION3 PFK	380.9760	34.48	0.000	0.000					1.6

PFK4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	44.37	0.000						9.5

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

PFK5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	48.47	0.000						14.7
2	52 FUNCTION5 PFK	480.9696	47.49	0.000						24.4

ETHERS1

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.85	0.000	0.000					2.3
2	53 FUNCTION1 HXCD...	375.8364	22.00	0.000	0.000					3.2
3	53 FUNCTION1 HXCD...	375.8364	28.05	0.000	0.000					5.3
4	53 FUNCTION1 HXCD...	375.8364	26.59	0.000	0.000					303.5
5	53 FUNCTION1 HXCD...	375.8364	26.32	0.000	0.000					65.3

ETHERS2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	25.47	0.000	0.000					1.9
2	54 FUNCTION1 HPCD...	409.7974	24.81	0.000	0.000					3.6
3	54 FUNCTION1 HPCD...	409.7974	23.72	0.000	0.000					1.8
4	54 FUNCTION1 HPCD...	409.7974	23.52	0.000	0.000					2.0
5	54 FUNCTION1 HPCD...	409.7974	22.81	0.000	0.000					33.9
6	54 FUNCTION1 HPCD...	409.7974	21.69	0.000	0.000					3.9

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.98	0.000	0.000					3.3
2	55 FUNCTION2 HPCD...	409.7974	31.05	0.000	0.000					2.8
3	55 FUNCTION2 HPCD...	409.7974	29.18	0.000	0.000					2.2

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	43.86	0.000	0.000					1.6
2	57 FUNCTION4 NCDPE	479.7165	39.63	0.000	0.000					14.4

ETHERS6

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

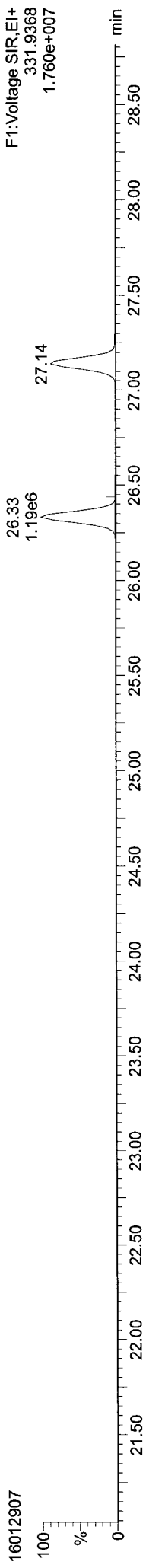
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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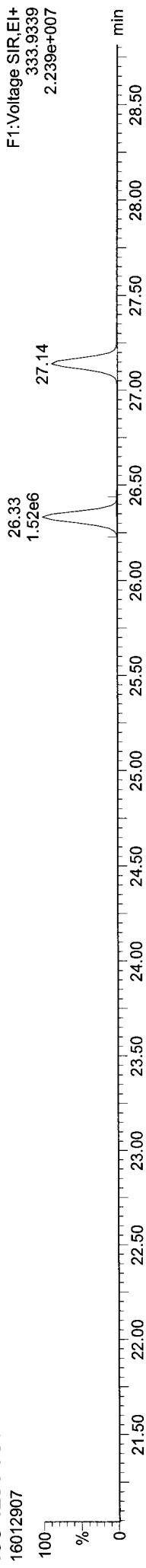
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ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

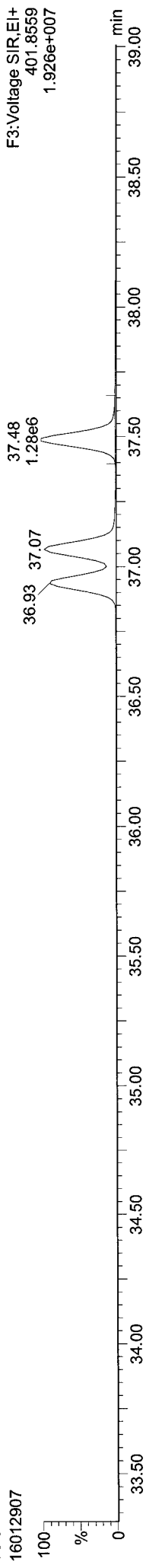
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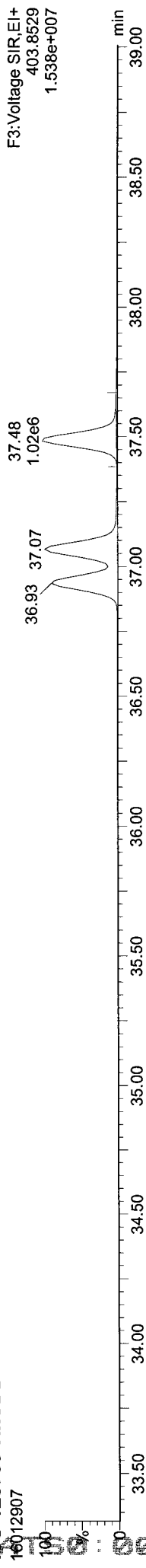
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13C-123789-HxCDD



13C-123789-HxCDD

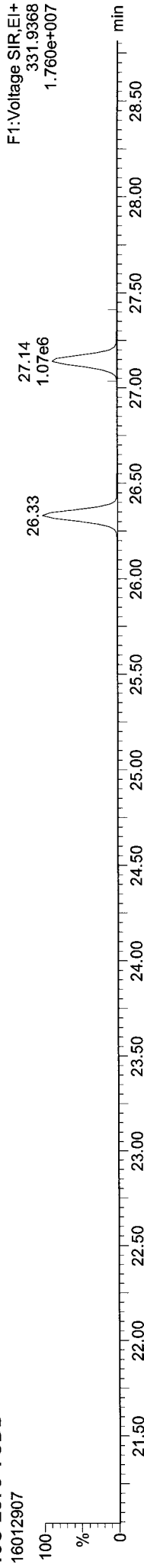


Quantify Sample Report MassLynx V4.1 SCN909

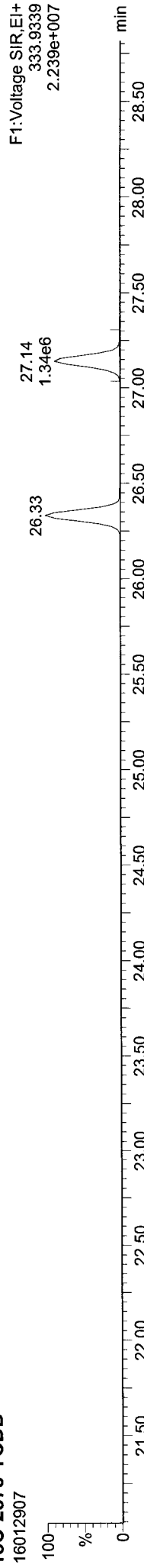
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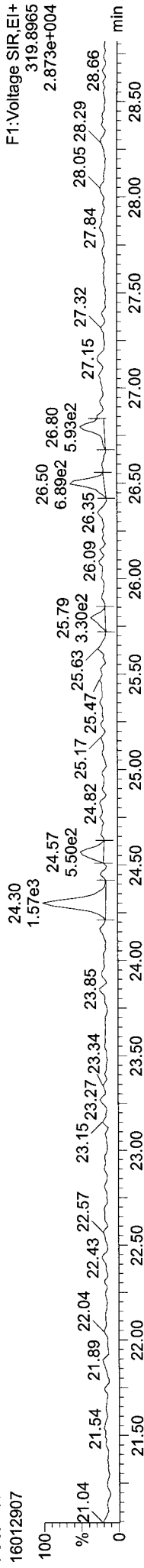
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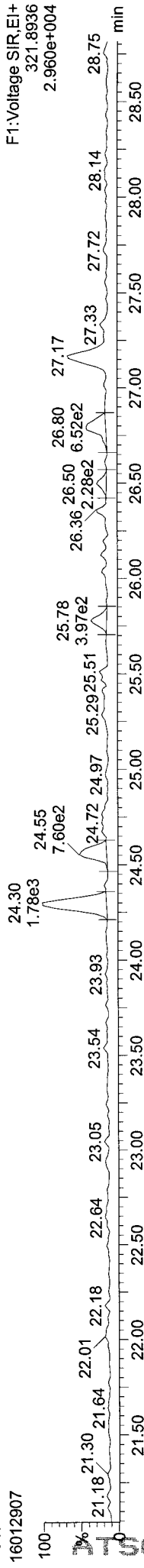
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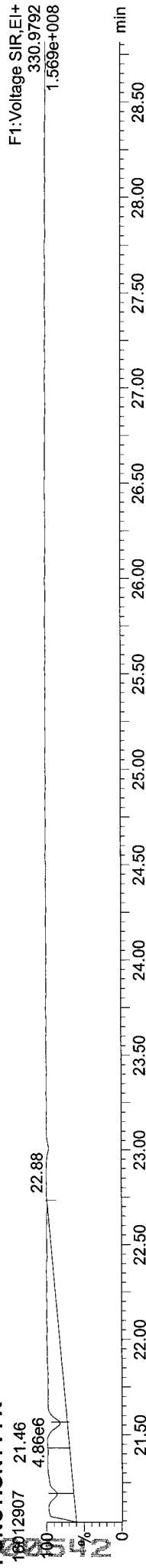
Total-tetradiioxins



Total-tetradiioxins



FUNCTION1 PFK

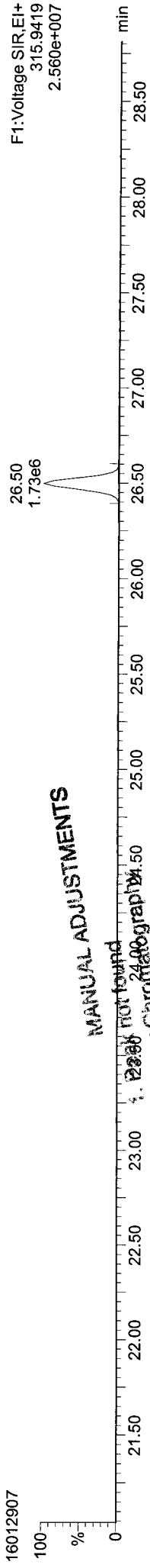


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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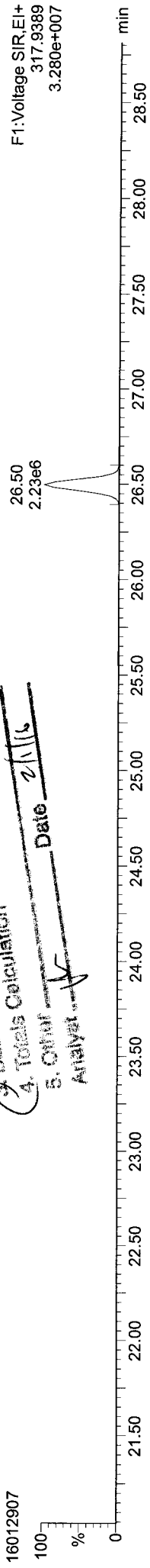
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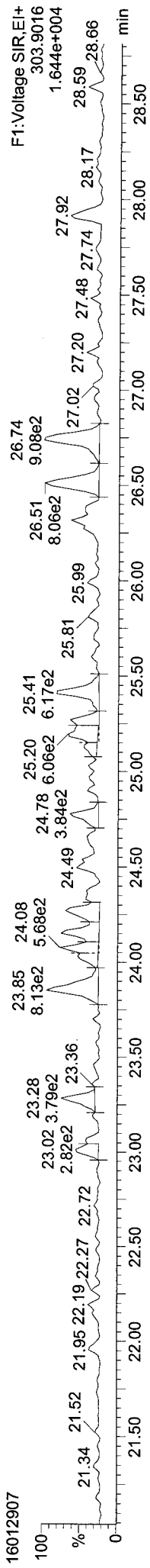
MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatogram
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Date: 2/1/16

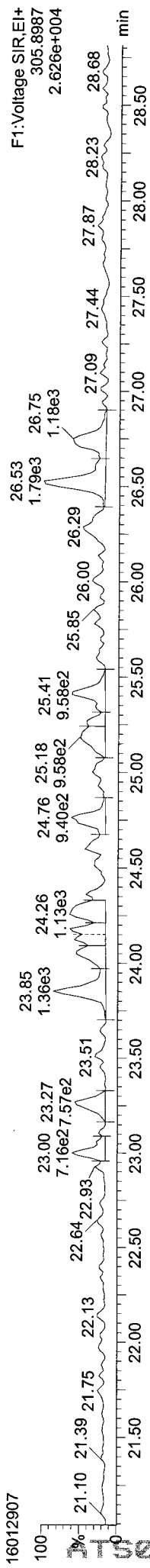
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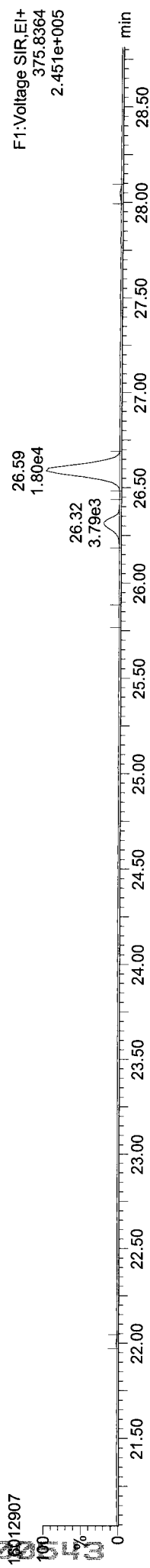
Total-tetrafurans



Total-tetrafurans



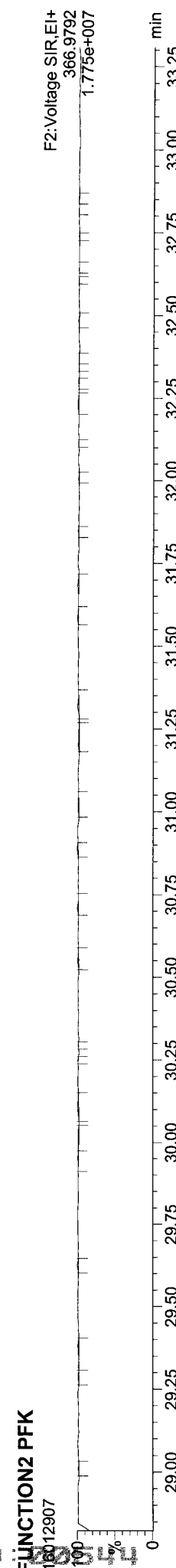
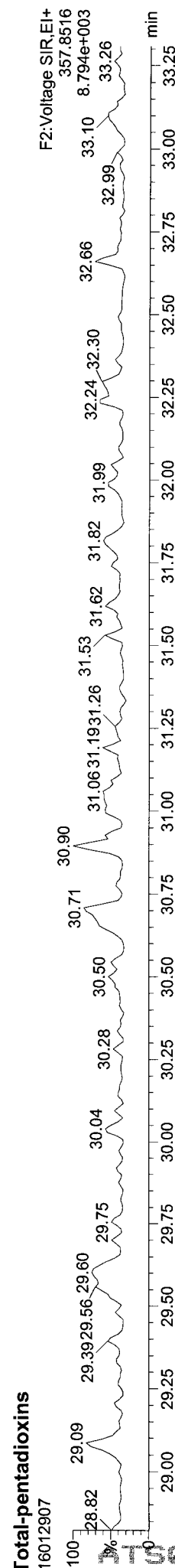
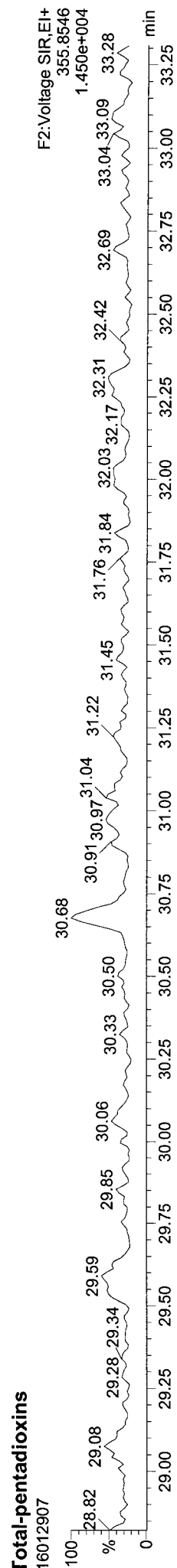
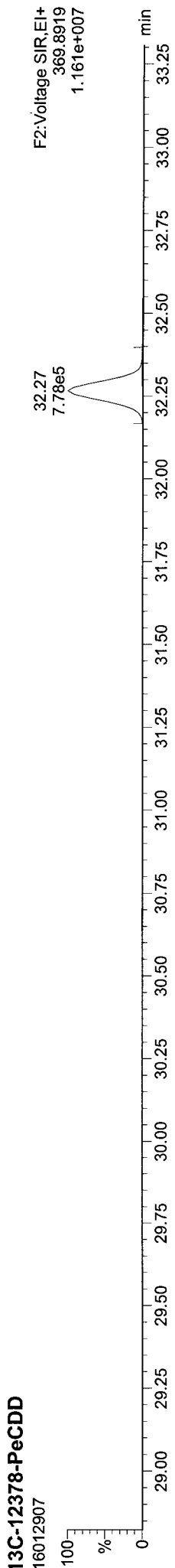
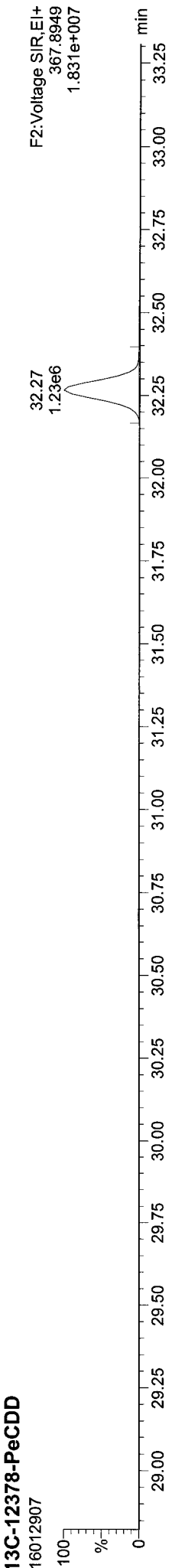
FUNCTION1 HXCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

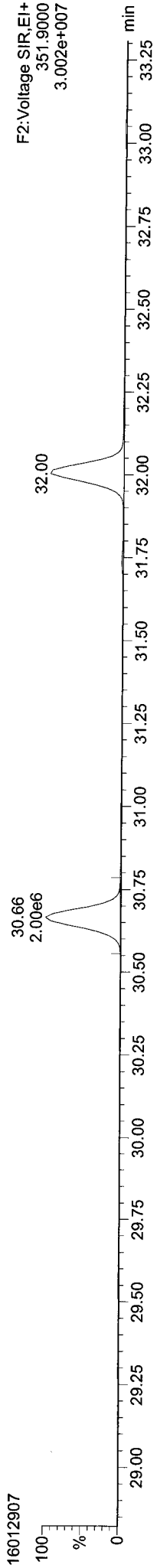


Quantify Sample Report MassLynx V4.1 SCN909

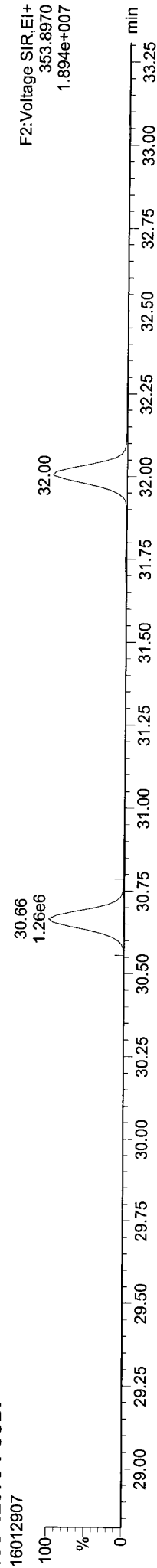
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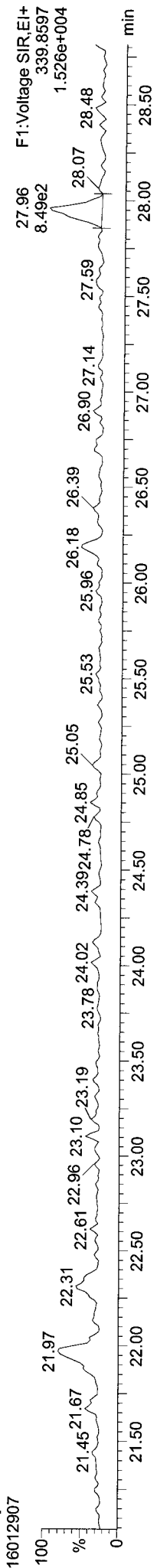
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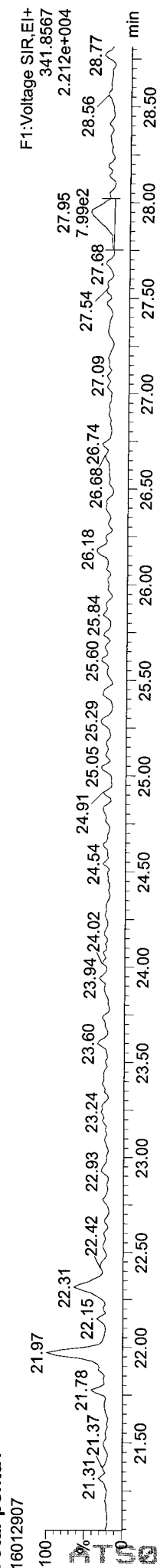
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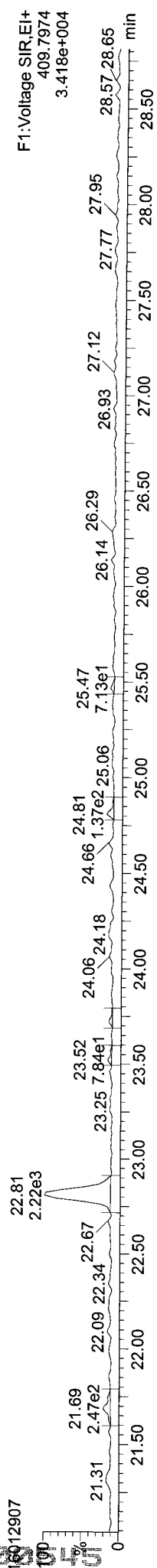
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

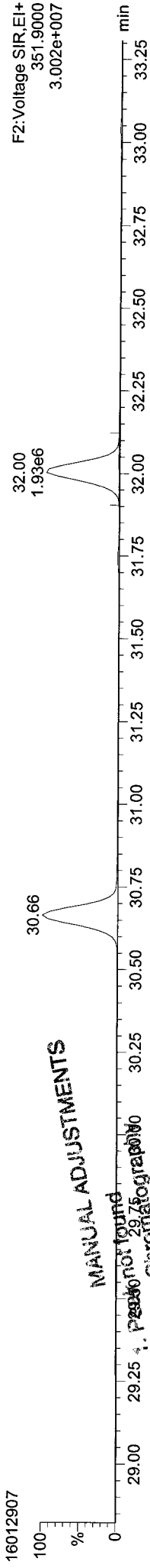
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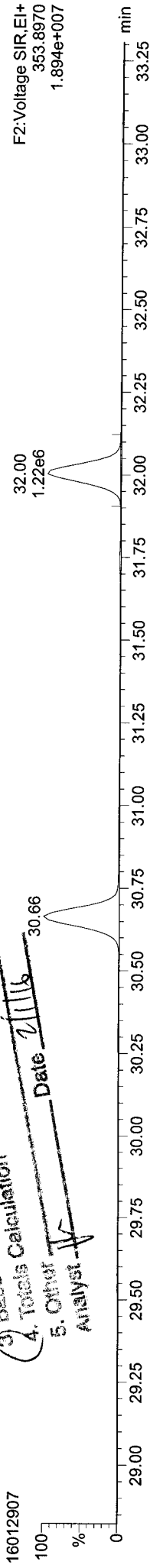
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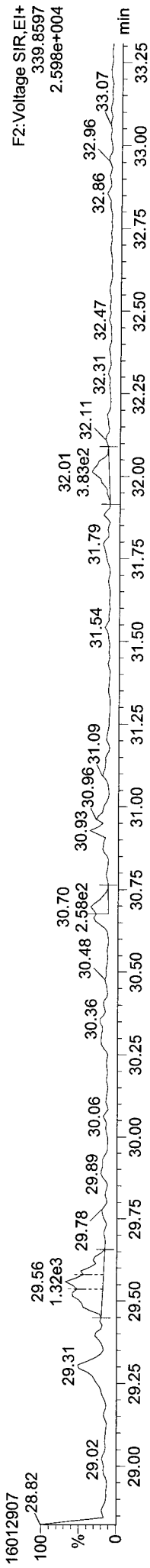
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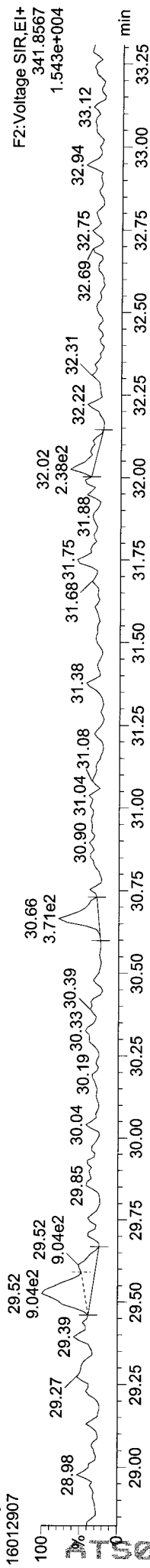
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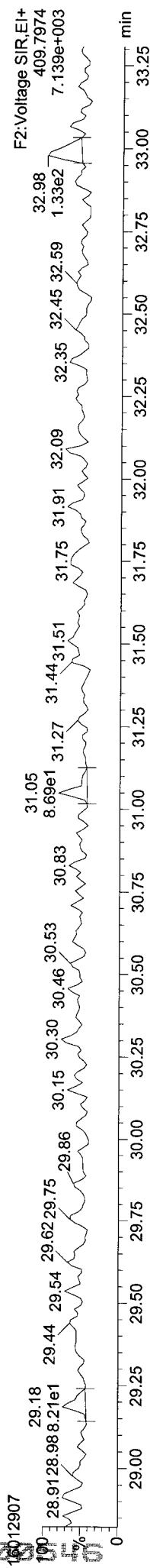
Total-pentafurans



Total-pentafurans



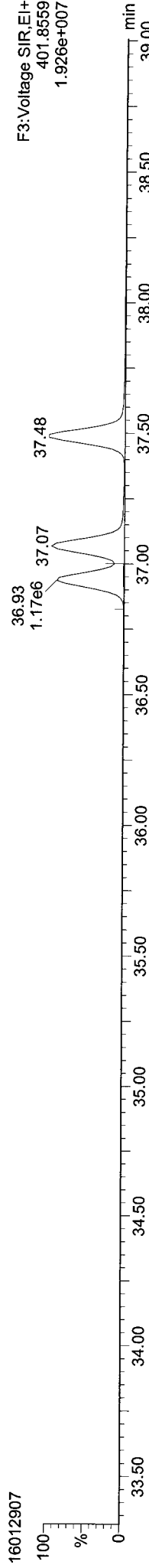
FUNCTION2 HPCDPE



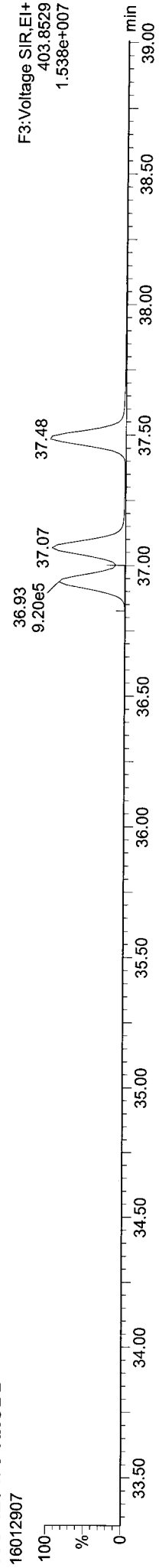
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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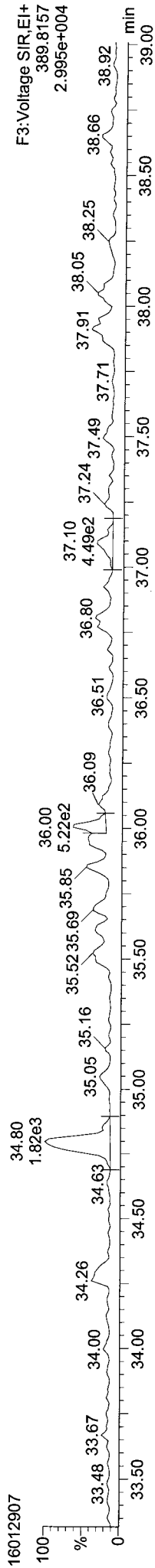
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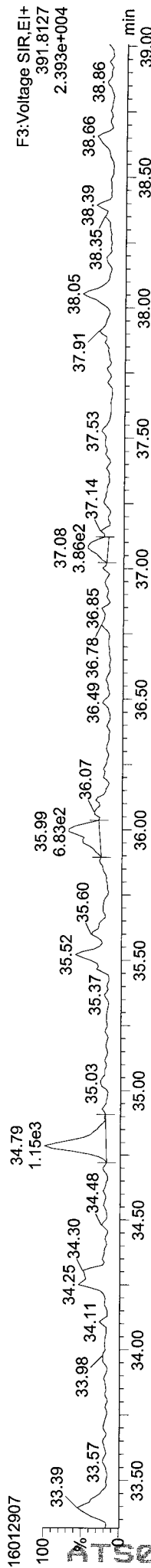
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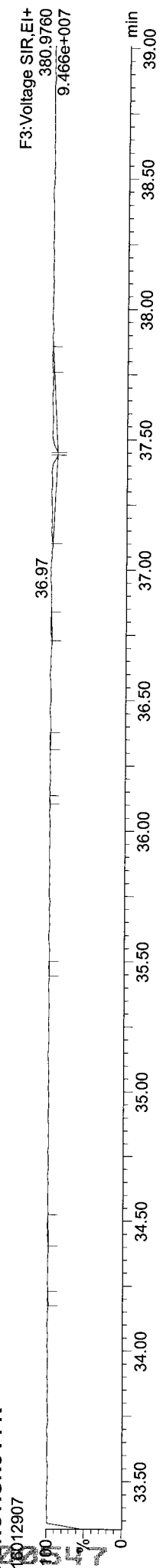
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

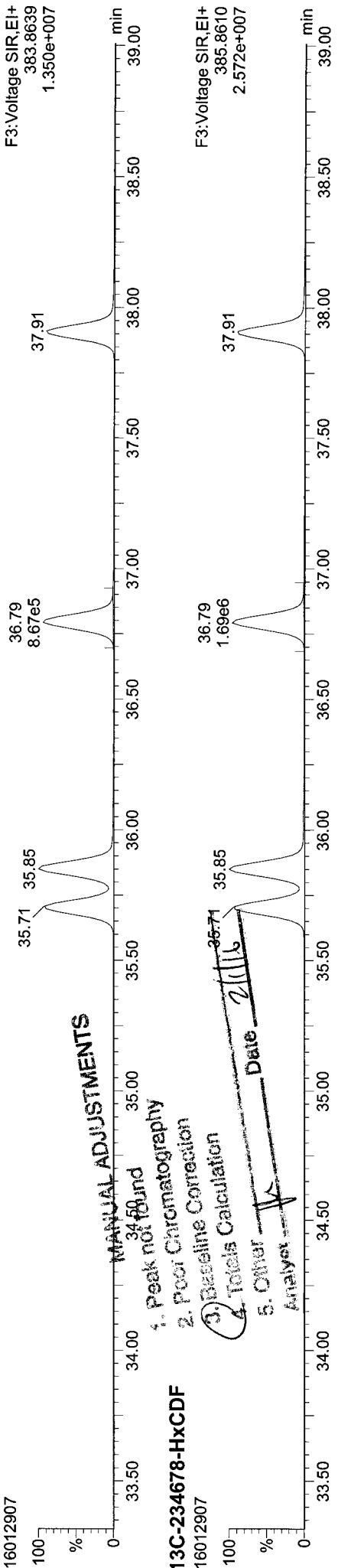


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

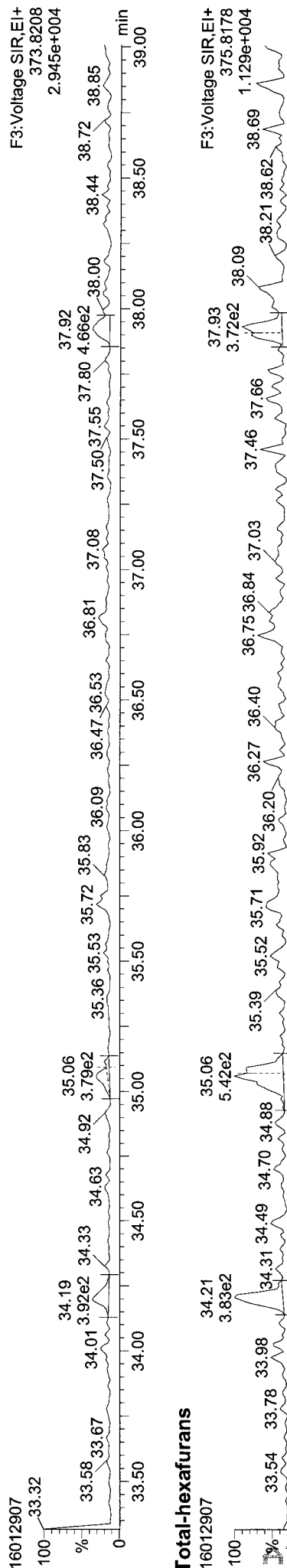
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

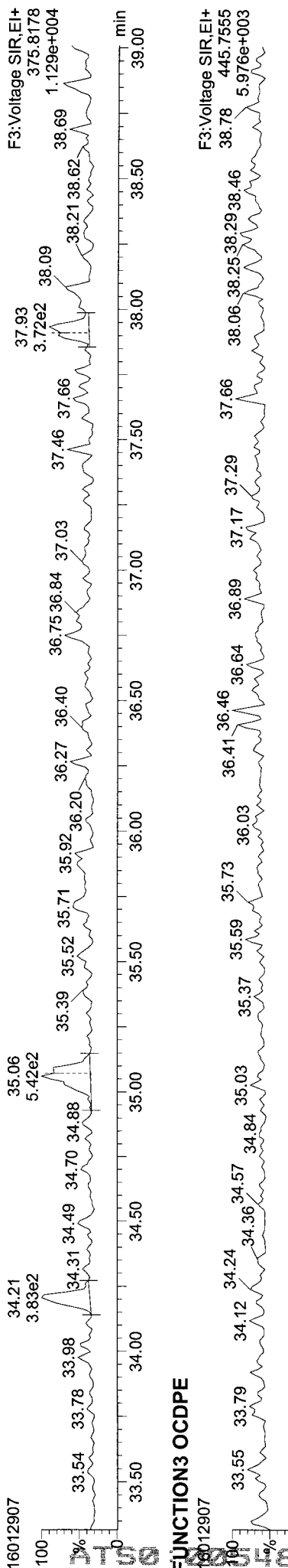
13C-234678-HxCDF



Total-hexafurans



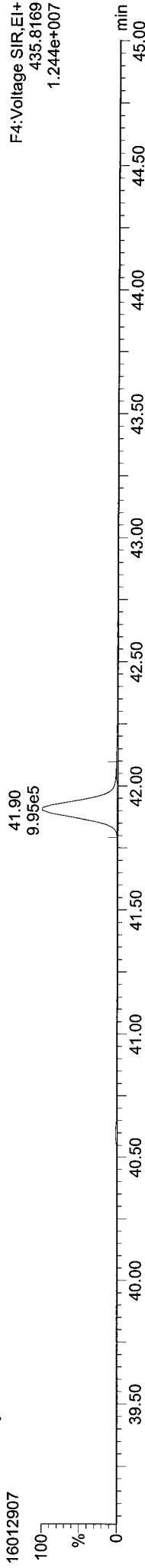
Total-hexafurans



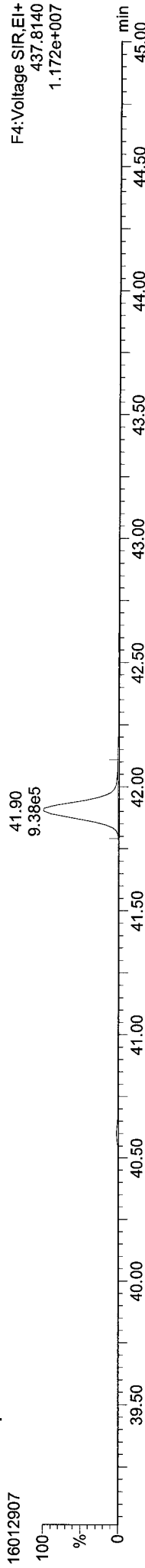
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

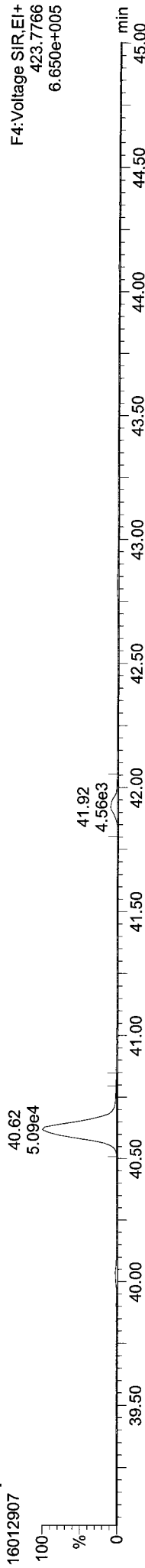
13C-1234678-HpCDD



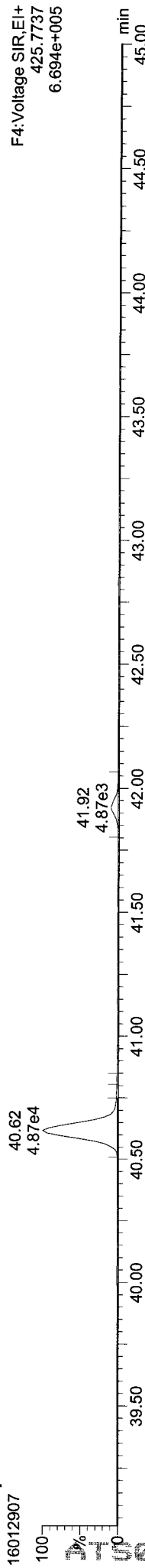
13C-1234678-HpCDD



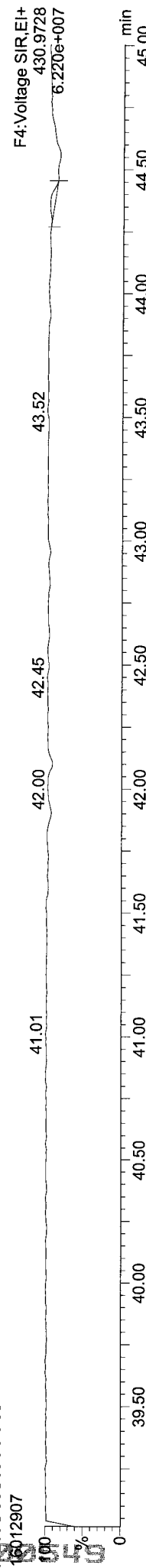
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

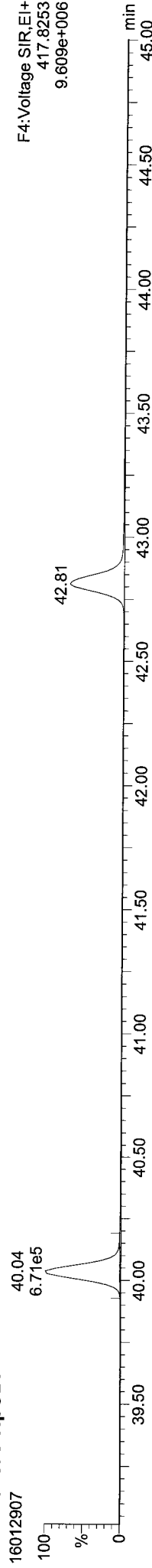


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

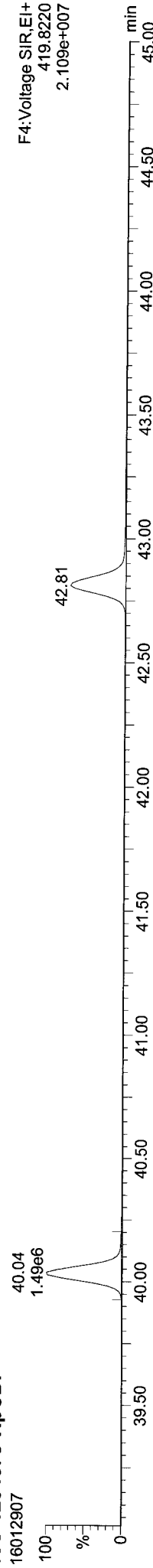
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

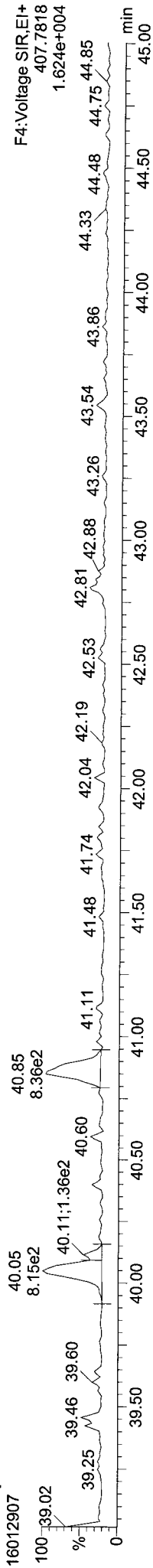
13C-1234678-HpCDF



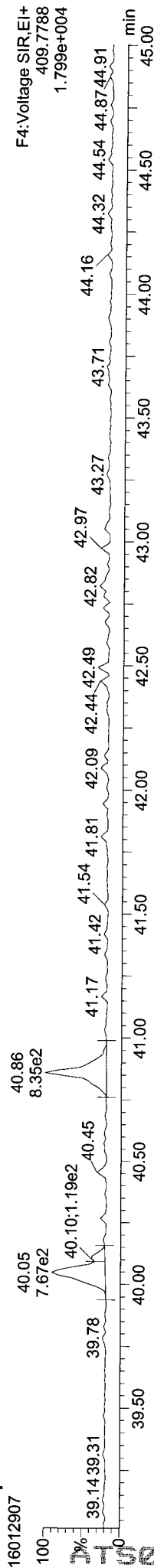
13C-1234678-HpCDF



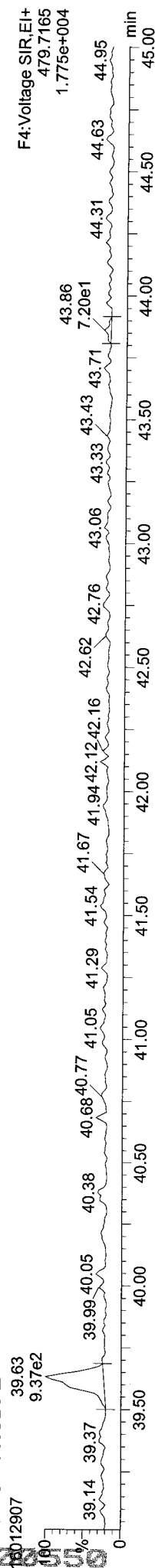
Total-heptafurans



Total-heptafurans

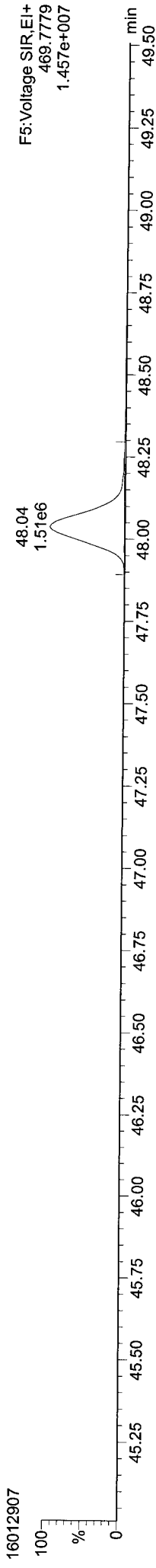


FUNCTION4 NCDPE

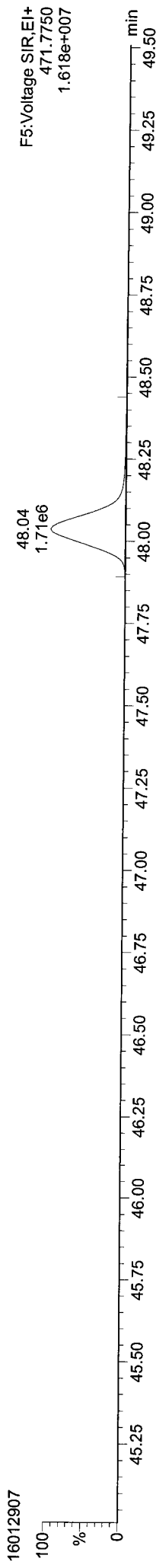


ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

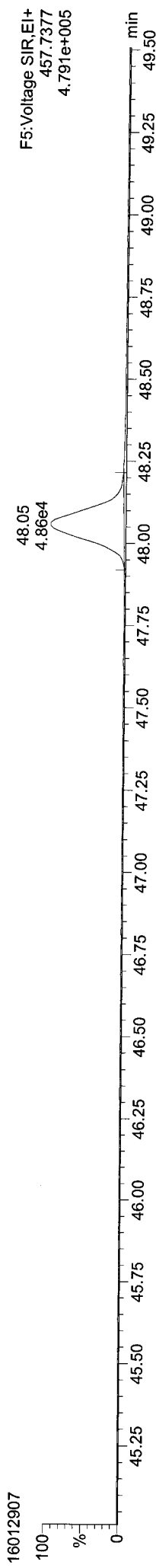
13C-OCDD



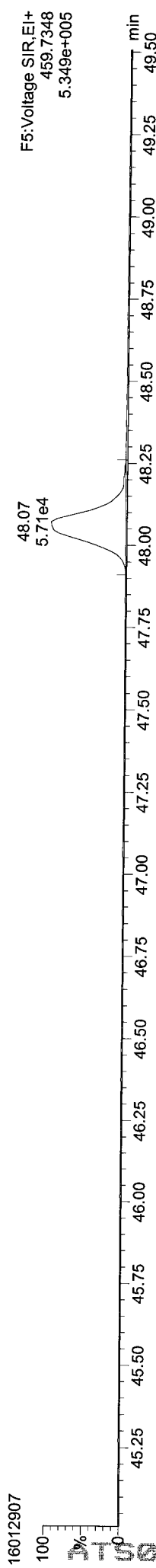
13C-OCDD



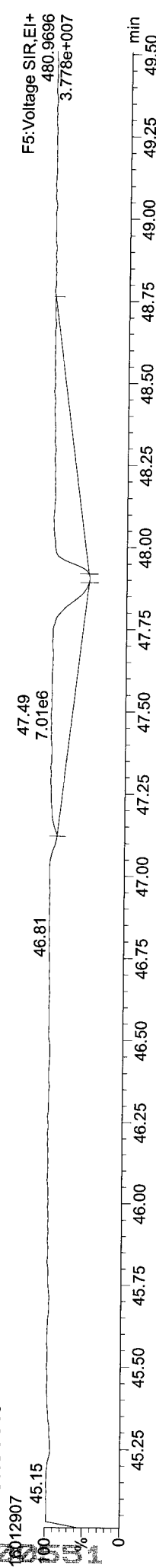
OCDD



OCDD



FUNCTION5 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

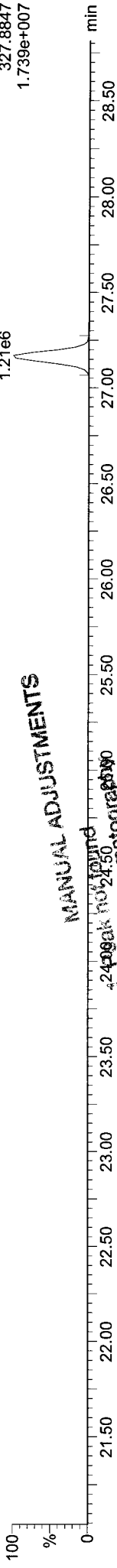
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

16012907



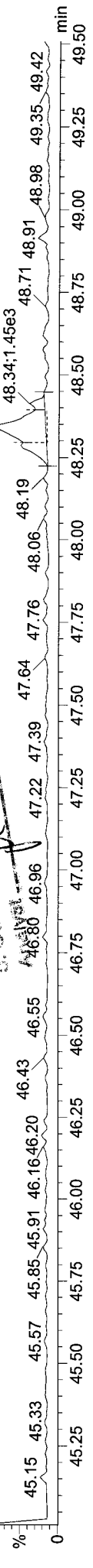
F1: Voltage SIR, EI+
327.8847
1.739e+007

OCDF

16012907

100%

45.01



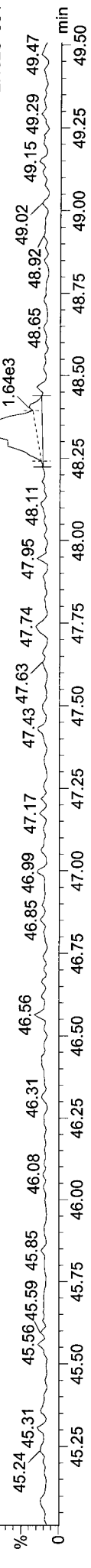
F5: Voltage SIR, EI+
441.7428
2.504e+004

OCDF

16012907

100%

48.32



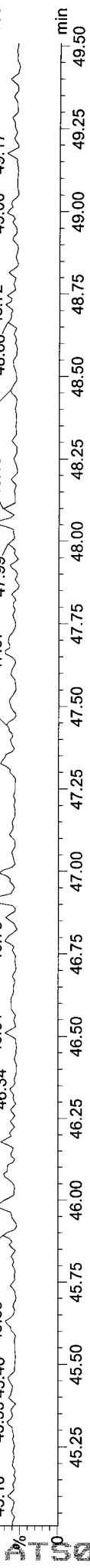
F5: Voltage SIR, EI+
443.7399
2.192e+004

FUNCTION5 DCDPE

16012907

100%

46.91



F5: Voltage SIR, EI+
513.6775
6.077e+003

AT50 : 00552

**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50B
 Lab.File ID: 16012908
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.023
12378-PeCDD	356/358	0.00			0.026
123478-HxCDD	390/392	0.00			0.040
123678-HxCDD	390/392	37.07	0.0512		
123789-HxCDD	390/392	0.00			0.041
1234678-HpCDD	424/426	41.92	0.685		
OCDD	458/460	48.04	7.00		
2378-TCDF	304/306	26.50	0.0651		
12378-PeCDF	340/342	0.00			0.027
23478-PeCDF	340/342	0.00			0.026
123478-HxCDF	374/376	0.00			0.026
234678-HxCDF	374/376	0.00			0.024
123678-HxCDF	374/376	0.00			0.024
123789-HxCDF	374/376	0.00			0.026
1234678-HpCDF	408/410	40.05	0.0880		
1234789-HpCDF	408/410	0.00			0.016
OCDF	442/444	48.31	0.220		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\IDioxin1601293SN.mdb 29 Jan 2016 12:40:27

Calibration: P:\DIOXIN8290.pro\CurveDB\151015\CAL.cdb 16 Oct 2015 08:47:27

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.497	1.000	7.90e2	1.07e3	0.827	0.739	0.770	1444	1714	1.01e4	1.69e4	7.0	NO	0.065	0.065
12378-PeCDF				0.824			1.550	1735	1414						
23478-PeCDF				0.850			1.550	1735	1414						
123478-HxCDF				0.973			1.240	1010	1669						
234678-HxCDF				1.025			1.240	1010	1669						
123678-HxCDF				0.953			1.240	1010	1669						
123789-HxCDF				0.956			1.240	1010	1669						
1234678-HpCDF	40.048	1.001	9.50e2	9.55e2	1.153	0.994	1.050	543	594	1.47e4	1.93e4	27.0	NO	0.088	0.088
1234789-HpCDF				1.131			1.050	543	594						
OCDF	48.314	1.006	1.35e3	1.63e3	1.023	0.829	0.890	808	1236	1.58e4	1.90e4	19.6	NO	0.220	0.220
2378-TCDD				1.023			0.770	1285	1117						
12378-PeCDD				0.939			1.550	1405	765						
123478-HxCDD				0.963			1.240	1473	2039						
123678-HxCDD	37.067	1.000	5.21e2	3.97e2	0.894	1.314	1.240	1473	2039	7.83e3	8.41e3	5.3	NO	0.051	0.051
123789-HxCDD				0.900			1.240	1473	2039						
1234678-HpCDD	41.923	1.001	5.40e3	5.57e3	0.964	0.970	1.050	966	1115	6.91e4	7.14e4	71.5	NO	0.685	0.685
OCDD	48.044	1.000	4.33e4	4.69e4	0.969	0.924	0.890	919	1127	4.15e5	4.63e5	451.3	NO	7.004	7.004
13C-2378-TCDF	26.497	1.006	1.52e6	1.94e6	1.502	0.783	0.770	7260	3738	2.24e7	2.87e7	3092.1	NO	92.420	92.420
13C-12378-PeCDF	30.654	1.164	1.72e6	1.09e6	1.215	1.581	1.550	2862	2651	2.61e7	1.65e7	9117.8	NO	93.033	93.033
13C-23478-PeCDF	32.002	1.215	1.68e6	1.07e6	1.181	1.571	1.550	2862	2651	2.59e7	1.64e7	9037.4	NO	93.367	93.367
13C-123478-HxCDF	35.696	0.952	7.35e5	1.41e6	1.246	0.520	0.510	3062	5116	1.10e7	2.09e7	3597.6	NO	83.963	83.963
13C-123678-HxCDF	35.850	0.956	8.04e5	1.59e6	1.375	0.506	0.510	3062	5116	1.18e7	2.28e7	3855.6	NO	84.714	84.714
13C-234678-HxCDF	36.792	0.982	7.55e5	1.44e6	1.186	0.526	0.510	3062	5116	1.15e7	2.18e7	3752.6	NO	89.954	89.954
13C-123789-HxCDF	37.900	1.011	7.05e5	1.35e6	1.135	0.523	0.510	3062	5116	1.09e7	2.09e7	3568.6	NO	88.055	88.055
13C-1234678-HpCDF	40.026	1.068	5.76e5	1.30e6	1.020	0.443	0.440	2076	3092	8.15e6	1.83e7	3926.8	NO	89.585	89.585
13C-1234789-HpCDF	42.811	1.142	4.69e5	1.06e6	0.824	0.444	0.440	2076	3092	5.68e6	1.28e7	2734.2	NO	90.157	90.157
OC-1234-TCDD	26.332	0.000	1.10e6	1.39e6	1.000	0.795	0.770	4056	1862	1.68e7	2.11e7	4152.2	NO	100.000	100.000
13C-2378-TCDD	27.139	1.031	9.08e5	1.15e6	0.983	0.791	0.770	4056	1862	1.38e7	1.73e7	3395.1	NO	84.078	84.078
13C-12378-PeCDD	32.254	1.225	1.09e6	6.92e5	0.787	1.567	1.550	1424	1792	1.62e7	1.03e7	11407.0	NO	90.792	90.792
13C-123478-HxCDD	36.935	0.985	1.04e6	7.94e5	1.031	1.304	1.240	2608	2178	1.57e7	1.22e7	6002.4	NO	86.418	86.418
13C-123678-HxCDD	37.056	0.989	1.11e6	8.96e5	1.137	1.238	1.240	2608	2178	1.60e7	1.27e7	6131.2	NO	85.928	85.928
13C-1234678-HpCDD	41.901	1.118	8.59e5	8.08e5	0.892	1.056	1.050	3151	1874	1.07e7	1.01e7	3406.3	NO	90.692	90.692
13C-OCDD	48.027	1.281	1.27e6	1.39e6	0.852	0.914	0.890	1548	2074	1.23e7	1.37e7	7930.6	NO	152.033	152.033

Quantify Sample Summary Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.483	0.000	1.15e6	9.06e5	1.000	1.267	1.240	2608	2178	1.76e7	1.40e7	6748.8	NO		100.000
Total-tetrafurans			3.65e3		0.827		1444			5.68e4					0.301
Total-penta1			8.88e2				597			9.22e3					0.059
Total-pentafurans			8.53e2		0.837		1735			8.93e3					0.076
Total-hexafurans			8.89e2		0.977		1010			1.32e4					0.079
Total-heptafurans			2.46e3		1.142		543			3.48e4					0.249
Total-Furans			1.01e4		0.971		1444			1.39e5					0.983
Total-tetraioxins			1.02e3		1.023		1285			1.57e4					0.118
Total-pentadioxins			9.48e2		0.939		1405			1.91e4					0.087
Total-hexadioxins			4.60e3		0.919		1473			7.18e4					0.452
Total-heptadioxins			4.48e4		0.964		966			6.36e5					5.618
Total-Dioxins			9.47e4		0.950		1285			1.16e6					13.278
Total-TEQ			1.05e5				1285			1.30e6					14.261
37CL-2378-TCDD	27.154	1.031	1.05e6		1.091		1342			1.60e7		11896.6			38.741
FUNCTION1 PFK			1.09e8				795690			4.26e8					0.000
FUNCTION2 PFK			5.53e4				177292			1.92e6					0.000
FUNCTION3 PFK			4.86e7				597669			3.31e8					0.000
FUNCTION4 PFK			4.25e4				528107			1.08e6					0.000
FUNCTION5 PFK			2.19e6				280034			2.55e6					0.000
FUNCTION1 HXCDPE			1.46e4				688			2.00e5					0.000
FUNCTION1 HPCDPE			2.98e3				1047			5.02e4					0.000
FUNCTION2 HPCDPE			9.86e1				946			3.65e3					0.000
FUNCTION3 OCDPE			0.00e0				655			0.00e0					0.000
FUNCTION4 NCDPE			1.11e3				709			1.86e4					0.000
FUNCTION5 DCDPE			0.00e0				466			0.00e0					0.000

AT50 : 00555

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	23.85	1521.984	0.827	0.053		0.62	0.77	YES	5.6
2	35 Total-tetrafurans	303.9016	23.00	877.976	0.827	0.031		0.75	0.77	NO	3.4
3	35 Total-tetrafurans	303.9016	26.74	1650.094	0.827	0.058		1.53	0.77	YES	12.0
4	1 2378-TCDF	303.9016	26.50	1858.967	0.827	0.065	0.065	0.74	0.77	NO	7.0
5	35 Total-tetrafurans	303.9016	25.42	1786.169	0.827	0.063		0.57	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	25.18	898.327	0.827	0.031		0.40	0.77	YES	3.4

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.93	1505.818		0.059		1.44	1.55	NO	15.4

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	29.51	1766.444	0.837	0.076		0.93	1.55	YES	5.1

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	38 Total-hexa-furans	373.8208	35.06	884.013	0.977	0.041		1.03	1.24	YES	6.2
2	38 Total-hexa-furans	373.8208	34.19	803.646	0.977	0.037		1.22	1.24	NO	6.9

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-hepta-furans	407.7818	40.86	3131.032	1.142	0.161		0.93	1.05	NO	37.0
2	8 1234678-HpCDF	407.7818	40.05	1905.502	1.153	0.088	0.088	0.99	1.05	NO	27.0

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	23.85	1521.984	0.827	0.053		0.62	0.77	YES	5.6
2	35 Total-tetrafurans	303.9016	23.00	877.976	0.827	0.031		0.75	0.77	NO	3.4
3	35 Total-tetrafurans	303.9016	26.74	1650.094	0.827	0.058		1.53	0.77	YES	12.0
4	1 2378-TCDF	303.9016	26.50	1858.967	0.827	0.065	0.065	0.74	0.77	NO	7.0
5	35 Total-tetrafurans	303.9016	25.42	1786.169	0.827	0.063		0.57	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	25.18	898.327	0.827	0.031		0.40	0.77	YES	3.4
7	37 Total-penta-furans	339.8597	29.51	1766.444	0.837	0.076		0.93	1.55	YES	5.1
8	38 Total-hexa-furans	373.8208	35.06	884.013	0.977	0.041		1.03	1.24	YES	6.2
9	38 Total-hexa-furans	373.8208	34.19	803.646	0.977	0.037		1.22	1.24	NO	6.9
10	39 Total-hepta-furans	407.7818	40.86	3131.032	1.142	0.161		0.93	1.05	NO	37.0
11	8 1234678-HpCDF	407.7818	40.05	1905.502	1.153	0.088	0.088	0.99	1.05	NO	27.0
12	10 OCDF	441.7428	48.31	2987.261	1.023	0.220	0.220	0.83	0.89	NO	19.6
13	36 Total-penta1	339.8597	27.93	1505.818		0.059		1.44	1.55	NO	15.4

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	24.29	2484.308	1.023	0.118		0.69	0.77	NO	12.2

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadoxins	355.8546	29.61	347.474	0.939	0.021		0.67	1.55	YES	3.4
2	42 Total-pentadoxins	355.8546	29.56	443.547	0.939	0.027		2.79	1.55	YES	4.5
3	42 Total-pentadoxins	355.8546	30.69	659.705	0.939	0.040		2.70	1.55	YES	5.7

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadoxins	389.8157	36.11	1104.247	0.919	0.063		0.96	1.24	YES	6.2
2	43 Total-hexadoxins	389.8157	36.01	725.252	0.919	0.041		0.80	1.24	YES	6.4
3	43 Total-hexadoxins	389.8157	35.94	1807.345	0.919	0.103		2.75	1.24	YES	11.5
4	43 Total-hexadoxins	389.8157	34.79	3417.448	0.919	0.194		1.23	1.24	NO	19.3
5	14 123678-HxCDD	389.8157	37.07	918.431	0.894	0.051	0.051	1.31	1.24	NO	5.3

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.92	10969.530	0.964	0.685	0.685	0.97	1.05	NO	71.5
2	44 Total-heptadoxins	423.7766	40.62	78994.570	0.964	4.933		1.00	1.05	NO	586.2

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	24.29	2484.308	1.023	0.118		0.69	0.77	NO	12.2
2	42 Total-pentadoxins	355.8546	29.61	347.474	0.939	0.021		0.67	1.55	YES	3.4
3	42 Total-pentadoxins	355.8546	29.56	443.547	0.939	0.027		2.79	1.55	YES	4.5
4	42 Total-pentadoxins	355.8546	30.69	659.705	0.939	0.040		2.70	1.55	YES	5.7
5	43 Total-hexadoxins	389.8157	36.11	1104.247	0.919	0.063		0.96	1.24	YES	6.2
6	43 Total-hexadoxins	389.8157	36.01	725.252	0.919	0.041		0.80	1.24	YES	6.4
7	43 Total-hexadoxins	389.8157	35.94	1807.345	0.919	0.103		2.75	1.24	YES	11.5
8	43 Total-hexadoxins	389.8157	34.79	3417.448	0.919	0.194		1.23	1.24	NO	19.3
9	14 123678-HxCDD	389.8157	37.07	918.431	0.894	0.051	0.051	1.31	1.24	NO	5.3
10	16 1234678-HpCDD	423.7766	41.92	10969.530	0.964	0.685	0.685	0.97	1.05	NO	71.5
11	44 Total-heptadoxins	423.7766	40.62	78994.570	0.964	4.933		1.00	1.05	NO	586.2
12	17 OCDD	457.7377	48.04	90214.472	0.969	7.004	7.004	0.92	0.89	NO	451.3

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	23.85	1521.984	0.827	0.053		0.62	0.77	YES	5.6
2	35 Total-tetrafurans	303.9016	23.00	877.976	0.827	0.031		0.75	0.77	NO	3.4
3	35 Total-tetrafurans	303.9016	26.74	1650.094	0.827	0.058		1.53	0.77	YES	12.0
4	1 2378-TCDF	303.9016	26.50	1858.967	0.827	0.065	0.065	0.74	0.77	NO	7.0
5	35 Total-tetrafurans	303.9016	25.42	1786.169	0.827	0.063		0.57	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	25.18	898.327	0.827	0.031		0.40	0.77	YES	3.4
7	37 Total-pentafurans	339.8597	29.51	1766.444	0.837	0.076		0.93	1.55	YES	5.1
8	38 Total-hexafurans	373.8208	35.06	884.013	0.977	0.041		1.03	1.24	YES	6.2
9	38 Total-hexafurans	373.8208	34.19	803.646	0.977	0.037		1.22	1.24	NO	6.9
10	39 Total-heptafurans	407.7818	40.86	3131.032	1.142	0.161		0.93	1.05	NO	37.0
11	8 1234678-HpCDF	407.7818	40.05	1905.502	1.153	0.088	0.088	0.99	1.05	NO	27.0
12	10 OCDF	441.7428	48.31	2987.261	1.023	0.220	0.220	0.83	0.89	NO	19.6
13	36 Total-penta1	339.8597	27.93	1505.818		0.059		1.44	1.55	NO	15.4
14	41 Total-tetradioxins	319.8965	24.29	2484.308	1.023	0.118		0.69	0.77	NO	12.2
15	42 Total-pentadioxins	355.8546	29.61	347.474	0.939	0.021		0.67	1.55	YES	3.4
16	42 Total-pentadioxins	355.8546	29.56	443.547	0.939	0.027		2.79	1.55	YES	4.5
17	42 Total-pentadioxins	355.8546	30.69	659.705	0.939	0.040		2.70	1.55	YES	5.7
18	43 Total-hexadioxins	389.8157	36.11	1104.247	0.919	0.063		0.96	1.24	YES	6.2
19	43 Total-hexadioxins	389.8157	36.01	725.252	0.919	0.041		0.80	1.24	YES	6.4
20	43 Total-hexadioxins	389.8157	35.94	1807.345	0.919	0.103		2.75	1.24	YES	11.5
21	43 Total-hexadioxins	389.8157	34.79	3417.448	0.919	0.194		1.23	1.24	NO	19.3
22	14 123678-HxCDD	389.8157	37.07	918.431	0.894	0.051	0.051	1.31	1.24	NO	5.3
23	16 1234678-HpCDD	423.7766	41.92	10969.530	0.964	0.685	0.685	0.97	1.05	NO	71.5
24	44 Total-heptadioxins	423.7766	40.62	78994.570	0.964	4.933		1.00	1.05	NO	586.2
25	17 OCDD	457.7377	48.04	90214.472	0.969	7.004	7.004	0.92	0.89	NO	451.3

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	21.12	0.000							89.4
2	48 FUNCTION1 PFK	330.9792	26.38	0.000							0.6
3	48 FUNCTION1 PFK	330.9792	24.49	0.000							1.7
4	48 FUNCTION1 PFK	330.9792	23.94	0.000							5.3
5	48 FUNCTION1 PFK	330.9792	22.91	0.000							37.8
6	48 FUNCTION1 PFK	330.9792	22.88	0.000							38.0
7	48 FUNCTION1 PFK	330.9792	22.61	0.000							46.4
8	48 FUNCTION1 PFK	330.9792	21.92	0.000							66.9
9	48 FUNCTION1 PFK	330.9792	21.43	0.000							81.1
10	48 FUNCTION1 PFK	330.9792	21.33	0.000							84.4
11	48 FUNCTION1 PFK	330.9792	21.25	0.000							84.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.47	0.000		0.000					0.8
2	49 FUNCTION2 PFK	366.9792	29.88	0.000		0.000					0.7
3	49 FUNCTION2 PFK	366.9792	29.70	0.000		0.000					1.8
4	49 FUNCTION2 PFK	366.9792	29.59	0.000		0.000					0.9
5	49 FUNCTION2 PFK	366.9792	29.03	0.000		0.000					0.6
6	49 FUNCTION2 PFK	366.9792	33.07	0.000		0.000					1.2
7	49 FUNCTION2 PFK	366.9792	32.61	0.000		0.000					0.5
8	49 FUNCTION2 PFK	366.9792	32.33	0.000		0.000					0.5
9	49 FUNCTION2 PFK	366.9792	32.02	0.000		0.000					1.5
10	49 FUNCTION2 PFK	366.9792	31.68	0.000		0.000					1.7
11	49 FUNCTION2 PFK	366.9792	31.05	0.000		0.000					0.7

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

PFK3

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.83	0.000	0.000					22.3
2	50 FUNCTION3 PFK	380.9760	34.41	0.000	0.000					38.2
3	50 FUNCTION3 PFK	380.9760	34.33	0.000	0.000					41.1
4	50 FUNCTION3 PFK	380.9760	34.26	0.000	0.000					43.3
5	50 FUNCTION3 PFK	380.9760	34.18	0.000	0.000					46.5
6	50 FUNCTION3 PFK	380.9760	34.04	0.000	0.000					51.7
7	50 FUNCTION3 PFK	380.9760	33.79	0.000	0.000					60.8
8	50 FUNCTION3 PFK	380.9760	33.55	0.000	0.000					69.8
9	50 FUNCTION3 PFK	380.9760	33.41	0.000	0.000					75.1
10	50 FUNCTION3 PFK	380.9760	37.03	0.000	0.000					1.3
11	50 FUNCTION3 PFK	380.9760	36.91	0.000	0.000					0.4
12	50 FUNCTION3 PFK	380.9760	36.76	0.000	0.000					0.7
13	50 FUNCTION3 PFK	380.9760	36.52	0.000	0.000					0.8
14	50 FUNCTION3 PFK	380.9760	36.30	0.000	0.000					2.1
15	50 FUNCTION3 PFK	380.9760	36.01	0.000	0.000					0.5
16	50 FUNCTION3 PFK	380.9760	35.84	0.000	0.000					1.5
17	50 FUNCTION3 PFK	380.9760	35.70	0.000	0.000					1.4
18	50 FUNCTION3 PFK	380.9760	35.58	0.000	0.000					1.2
19	50 FUNCTION3 PFK	380.9760	35.38	0.000	0.000					2.2
20	50 FUNCTION3 PFK	380.9760	35.32	0.000	0.000					3.7
21	50 FUNCTION3 PFK	380.9760	35.19	0.000	0.000					9.4
22	50 FUNCTION3 PFK	380.9760	35.13	0.000	0.000					12.0
23	50 FUNCTION3 PFK	380.9760	35.05	0.000	0.000					15.0
24	50 FUNCTION3 PFK	380.9760	34.97	0.000	0.000					16.8
25	50 FUNCTION3 PFK	380.9760	34.91	0.000	0.000					19.5
26	50 FUNCTION3 PFK	380.9760	38.93	0.000	0.000					1.5
27	50 FUNCTION3 PFK	380.9760	38.54	0.000	0.000					1.1
28	50 FUNCTION3 PFK	380.9760	38.48	0.000	0.000					1.4
29	50 FUNCTION3 PFK	380.9760	38.05	0.000	0.000					1.7
30	50 FUNCTION3 PFK	380.9760	37.92	0.000	0.000					1.2
31	50 FUNCTION3 PFK	380.9760	37.84	0.000	0.000					1.7
32	50 FUNCTION3 PFK	380.9760	37.78	0.000	0.000					2.2
33	50 FUNCTION3 PFK	380.9760	37.70	0.000	0.000					0.5
34	50 FUNCTION3 PFK	380.9760	37.36	0.000	0.000					1.6
35	50 FUNCTION3 PFK	380.9760	37.35	0.000	0.000					1.9
36	50 FUNCTION3 PFK	380.9760	37.21	0.000	0.000					1.8

PFK4

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	43.01	0.000						2.0

PFK5

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	48.20	0.000						1.6
2	52 FUNCTION5 PFK	480.9696	47.54	0.000						7.5

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

ETHERS1

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.05	0.000	0.000					7.2
2	53 FUNCTION1 HXCD...	375.8364	26.59	0.000	0.000					227.8
3	53 FUNCTION1 HXCD...	375.8364	26.30	0.000	0.000					52.1
4	53 FUNCTION1 HXCD...	375.8364	21.34	0.000	0.000					3.6

ETHERS2

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	28.36	0.000	0.000					1.9
2	54 FUNCTION1 HPCD...	409.7974	28.21	0.000	0.000					2.2
3	54 FUNCTION1 HPCD...	409.7974	24.75	0.000	0.000					2.5
4	54 FUNCTION1 HPCD...	409.7974	23.99	0.000	0.000					2.3
5	54 FUNCTION1 HPCD...	409.7974	23.85	0.000	0.000					4.3
6	54 FUNCTION1 HPCD...	409.7974	23.03	0.000	0.000					2.6
7	54 FUNCTION1 HPCD...	409.7974	22.81	0.000	0.000					28.7
8	54 FUNCTION1 HPCD...	409.7974	21.33	0.000	0.000					3.3

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	31.02	0.000	0.000					3.9

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	43.27	0.000	0.000					3.4
2	57 FUNCTION4 NCDPE	479.7165	39.61	0.000	0.000					22.8

ETHERS6

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

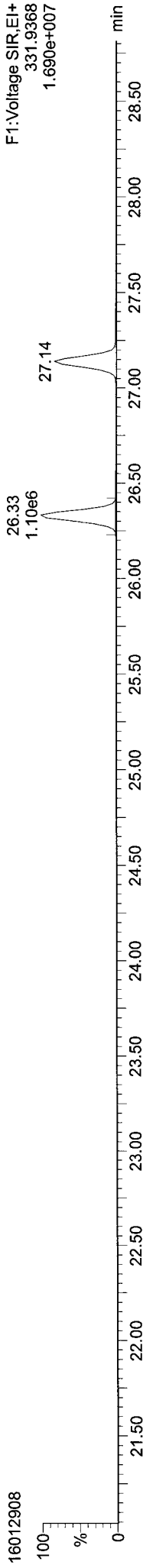
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

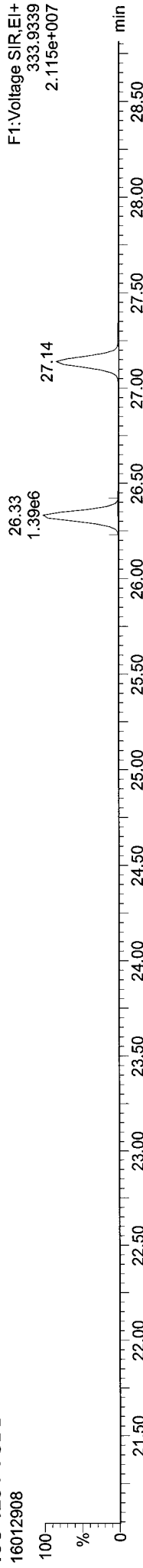
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ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

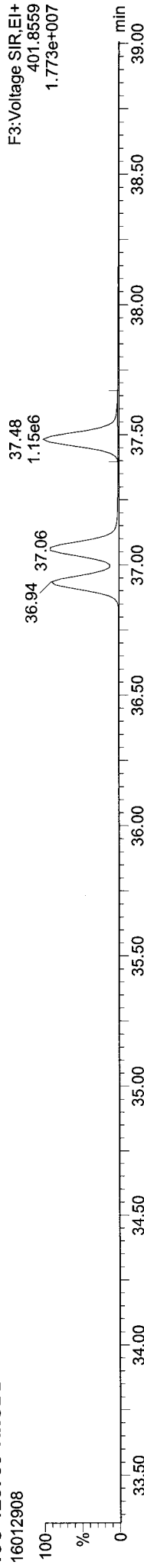
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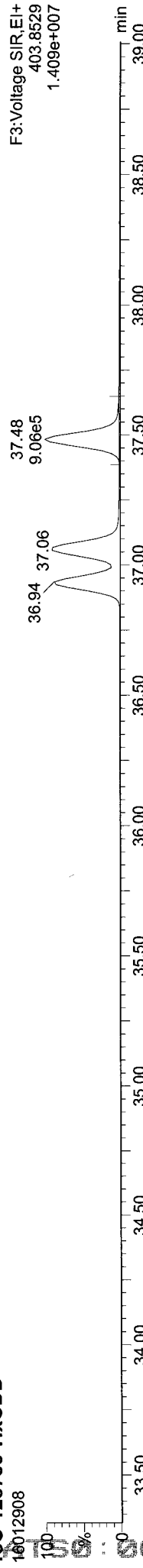
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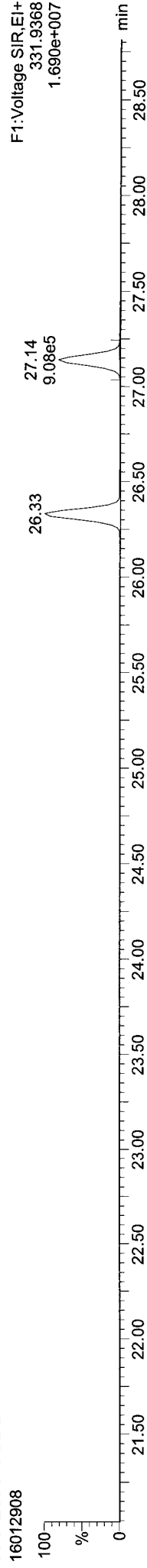
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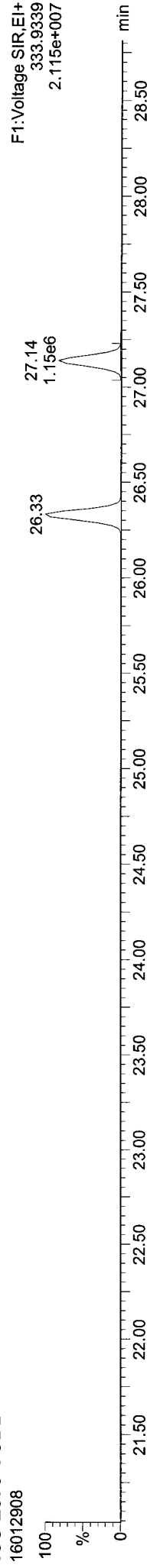
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ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

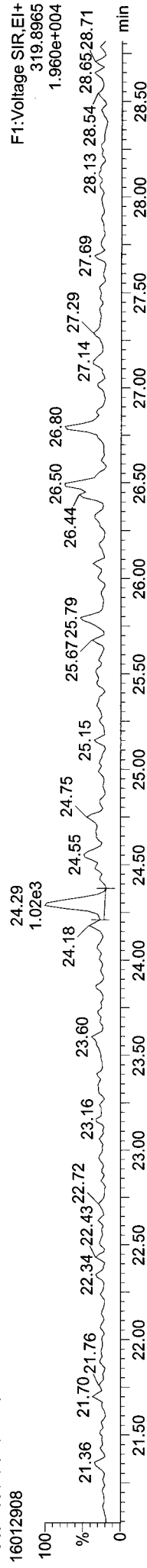
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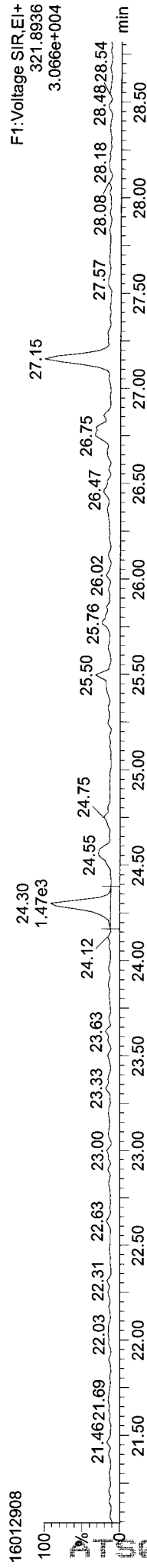
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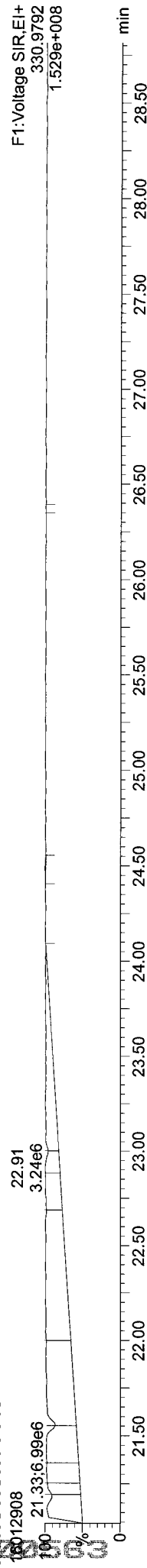
Total-tetradoxins



Total-tetradoxins

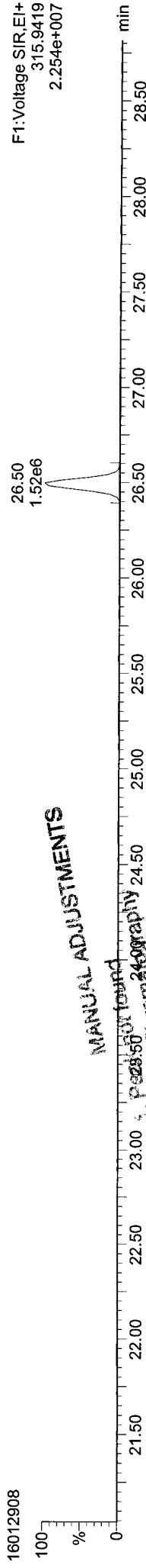


FUNCTION1 PFK



ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

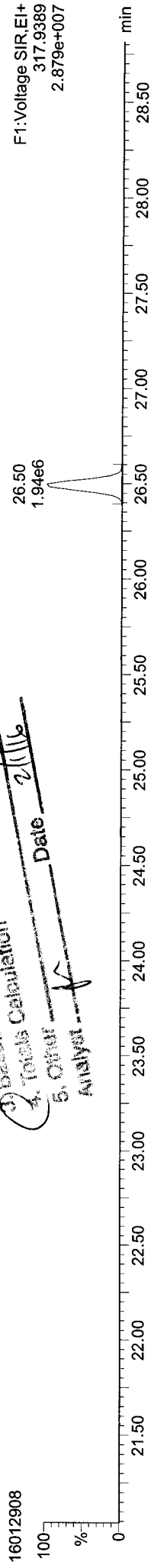
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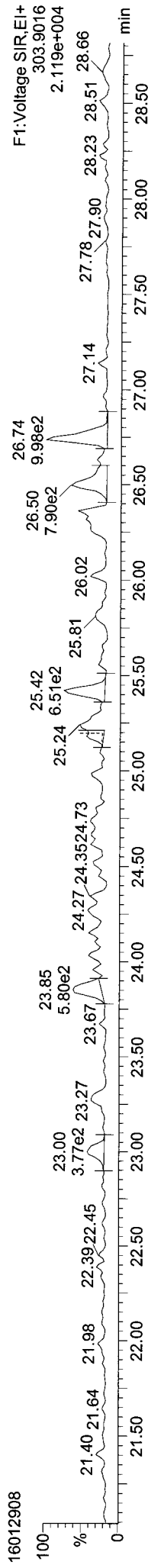
MANUAL ADJUSTMENTS

1. Peak(s) not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: 2/1/16

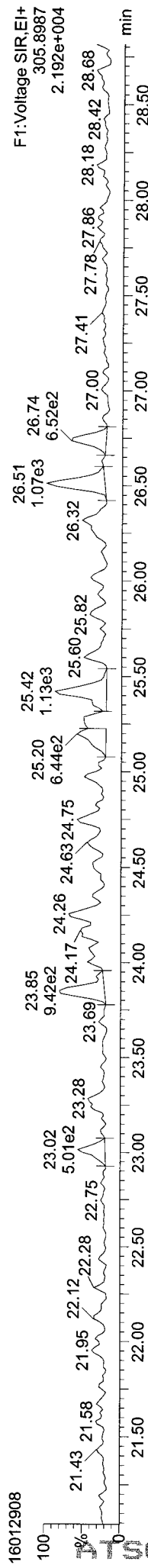
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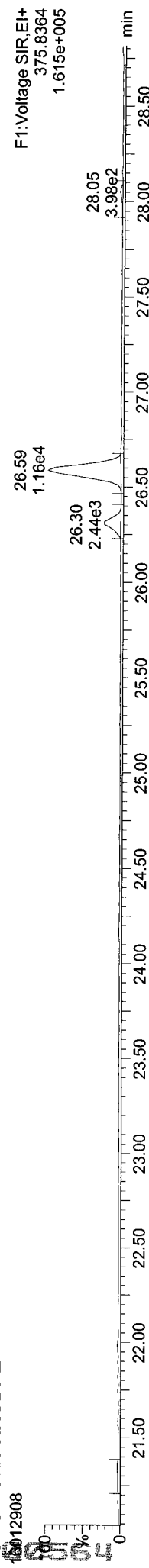
Total-tetrafurans



Total-tetrafurans



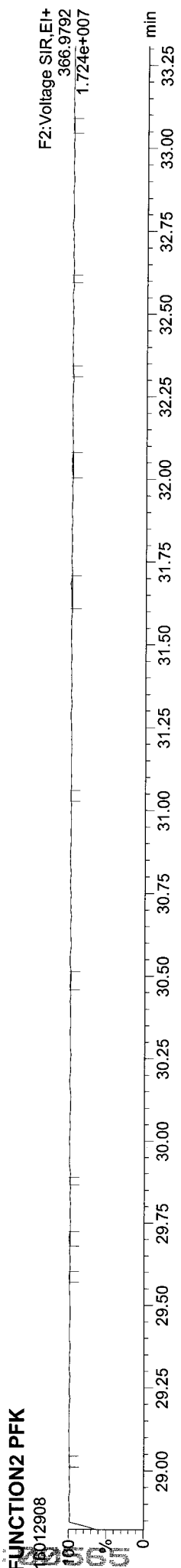
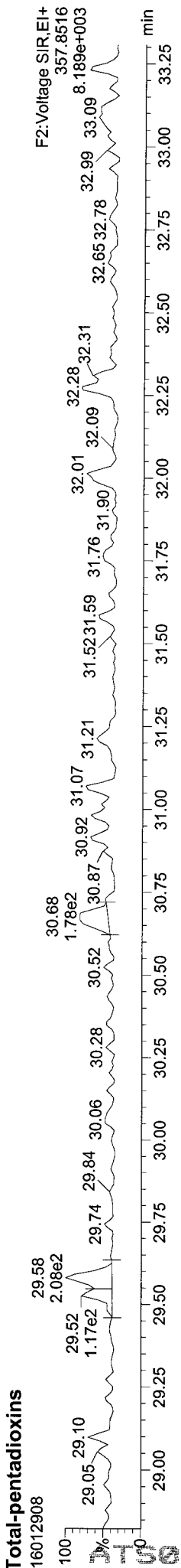
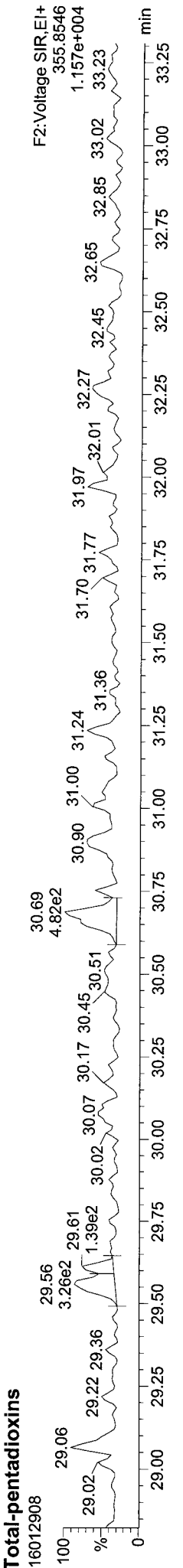
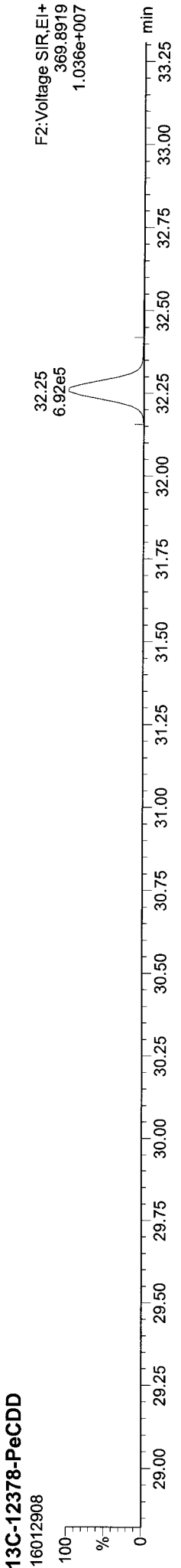
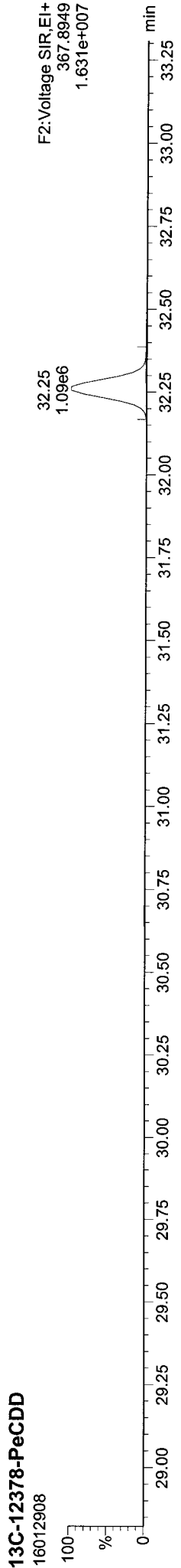
FUNCTION1 HXCDPE



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

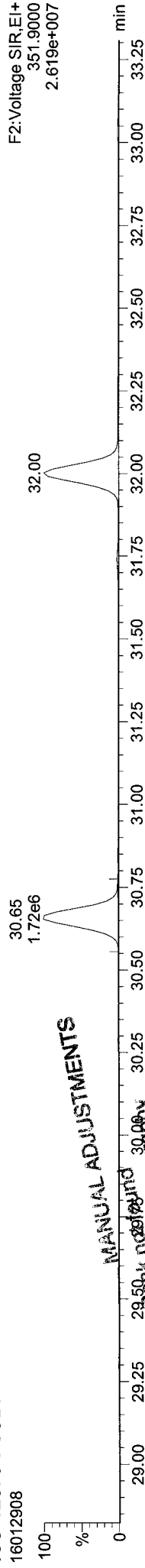
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

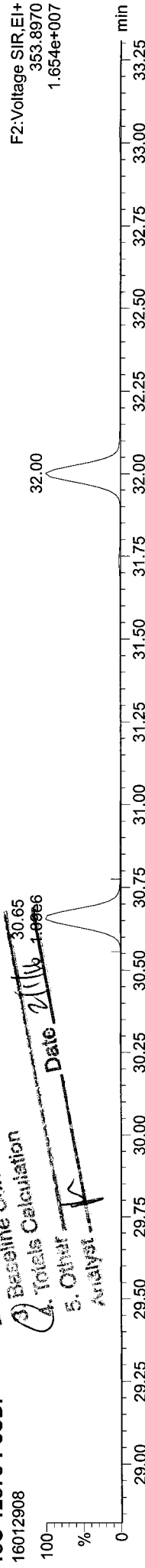
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

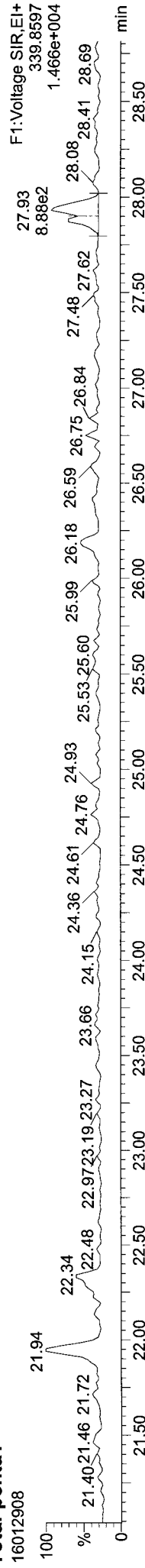
13C-12378-PeCDF



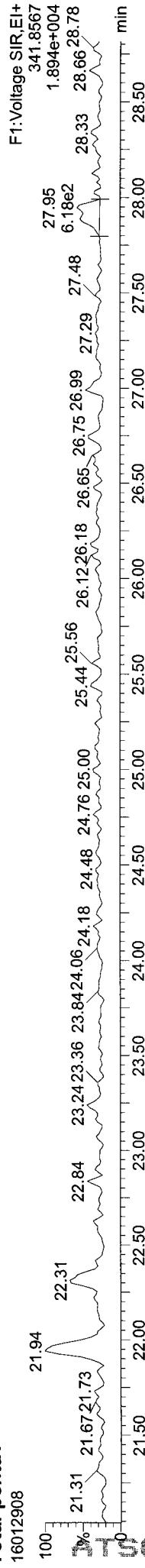
13C-12378-PeCDF



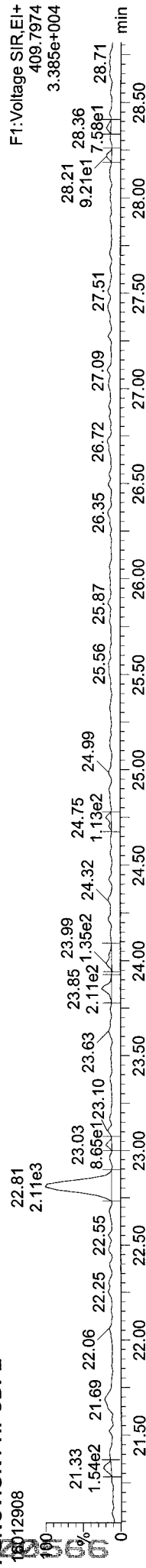
Total-penta1



Total-penta1



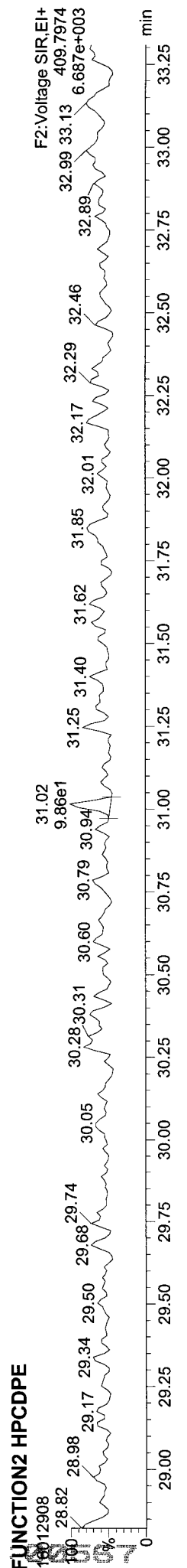
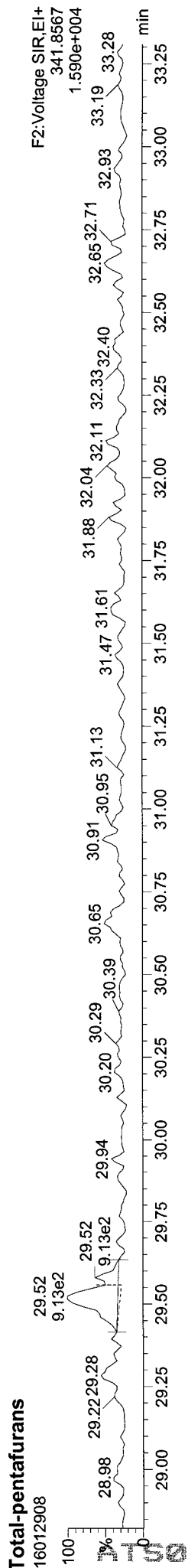
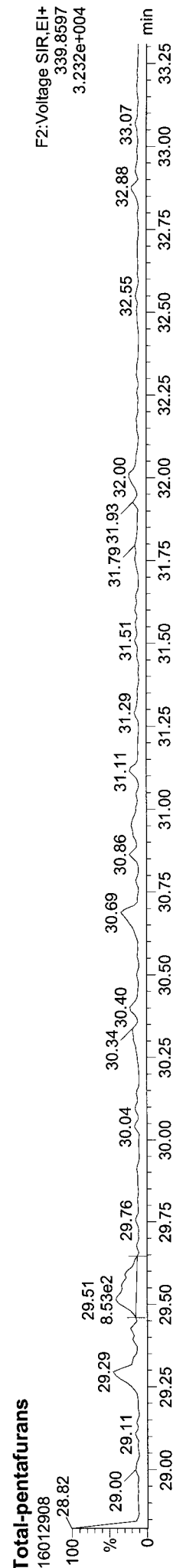
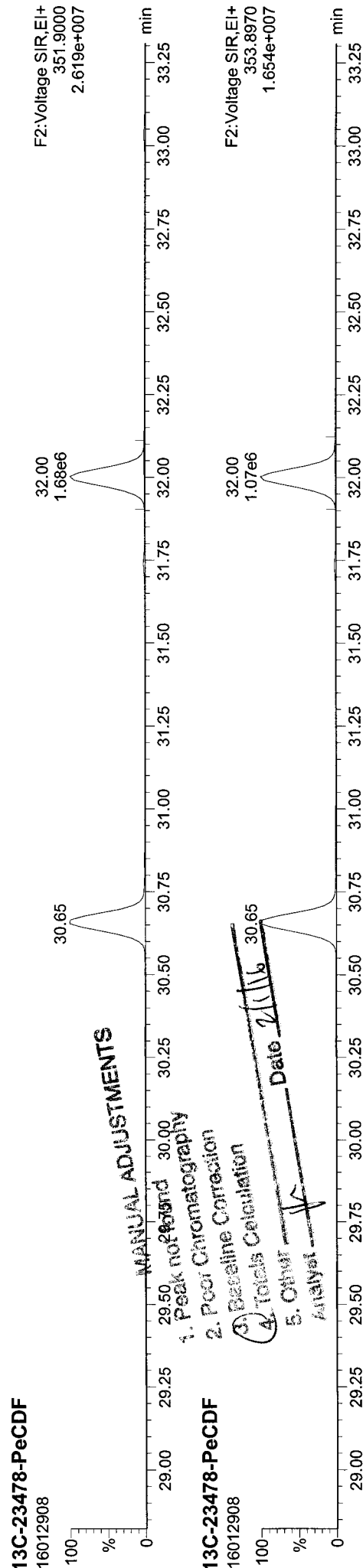
FUNCTION1 HPCDPE



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
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ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk



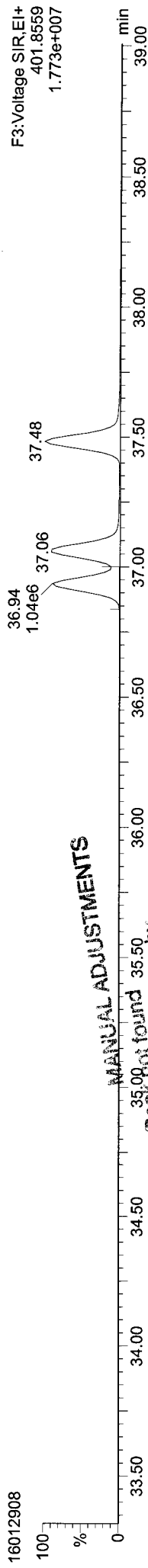
Dataset: P:\DIOXIN8290.PROV160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

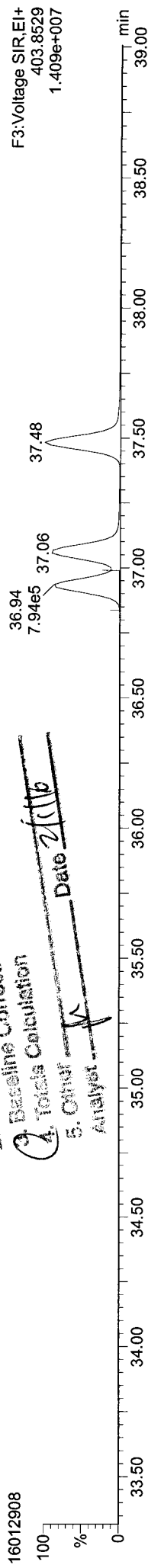
13C-123478-HxCDD



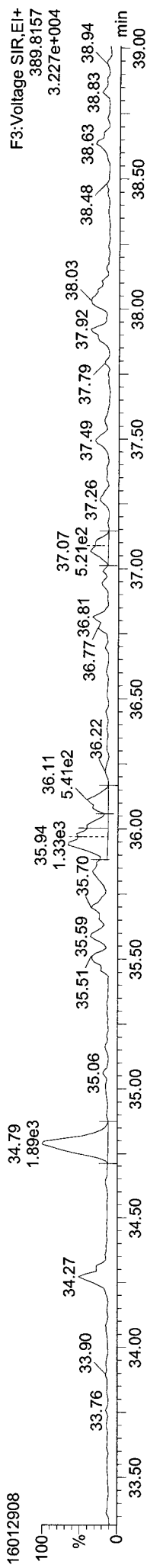
MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: *[Signature]* Date: *2/1/16*

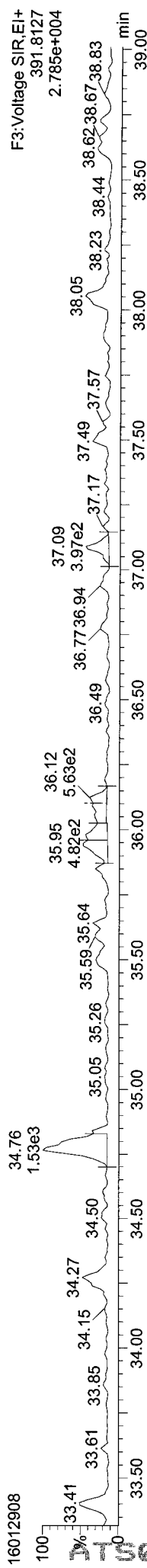
13C-123478-HxCDD



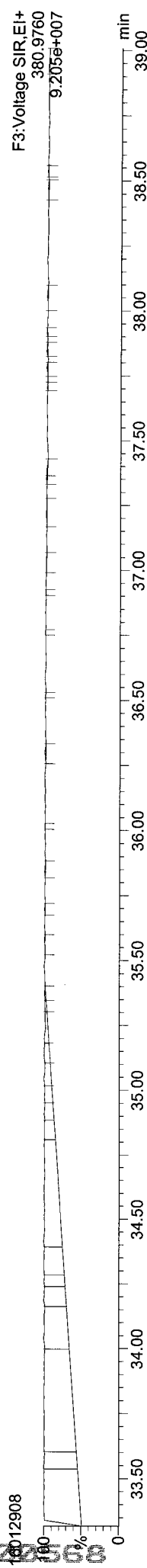
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

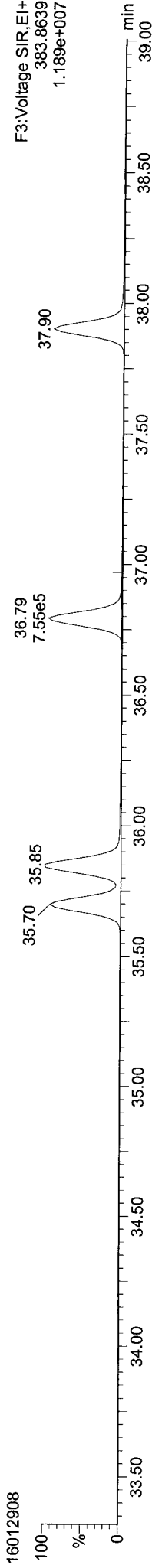


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

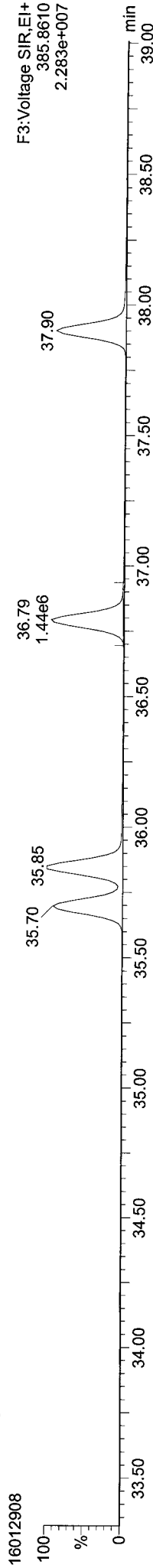
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

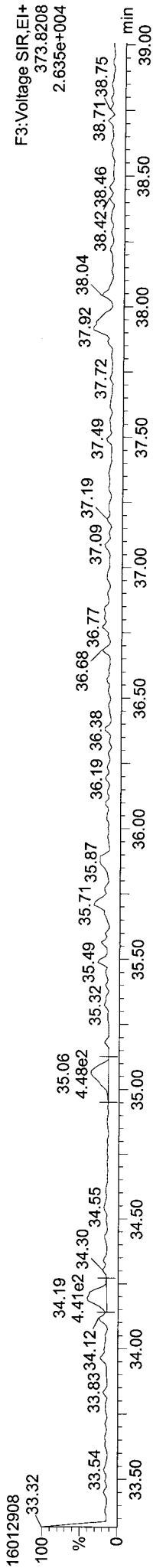
13C-234678-HxCDF



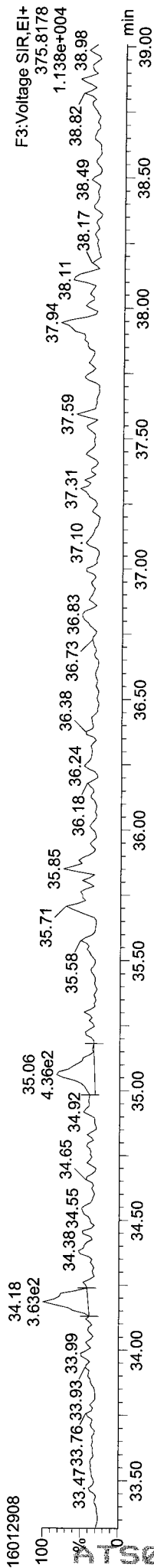
13C-234678-HxCDF



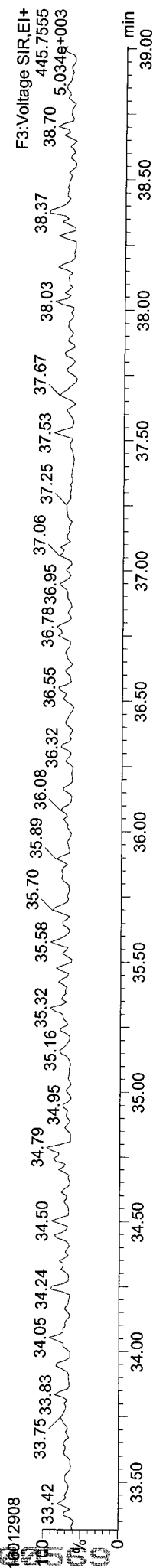
Total-hexafurans



Total-hexafurans



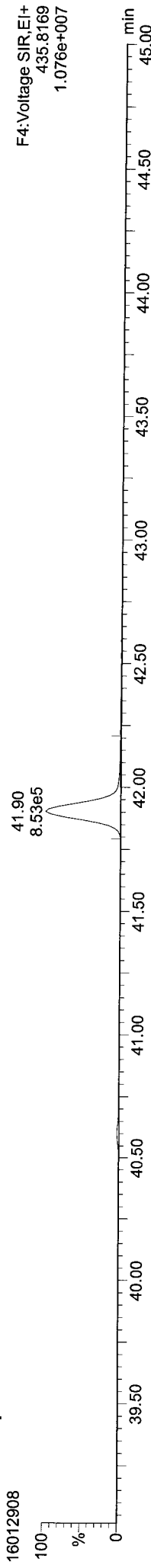
FUNCTION3 OCDPE



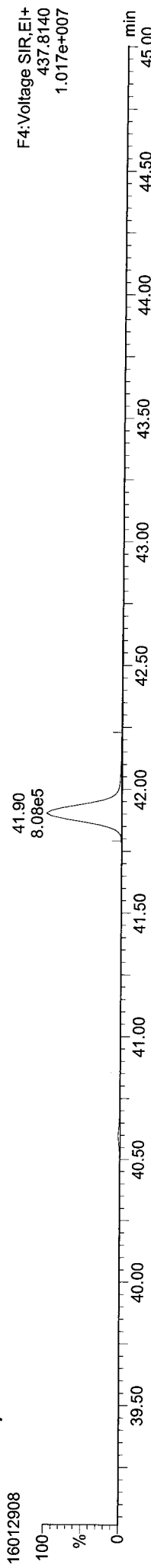
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

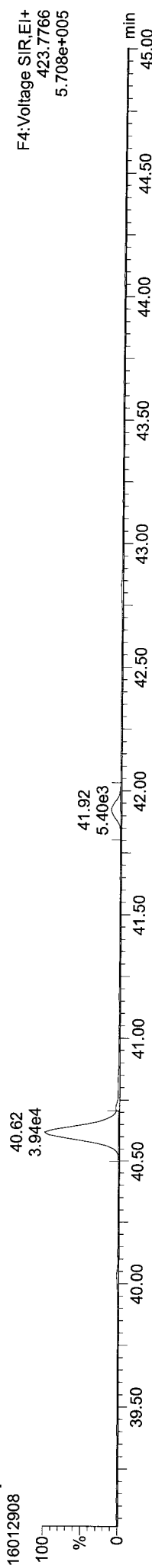
13C-1234678-HpCDD



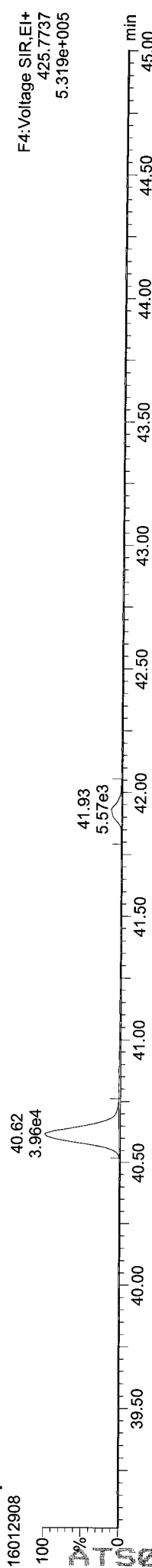
13C-1234678-HpCDD



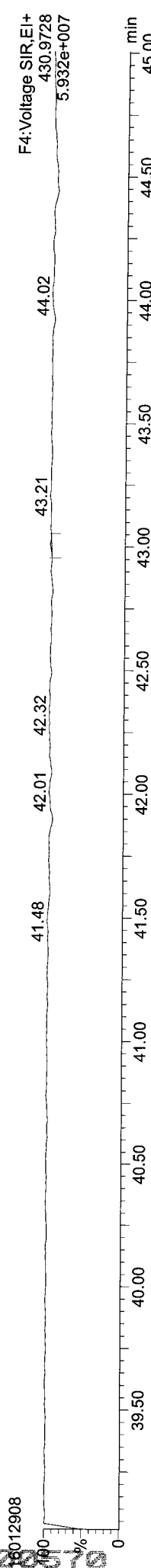
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

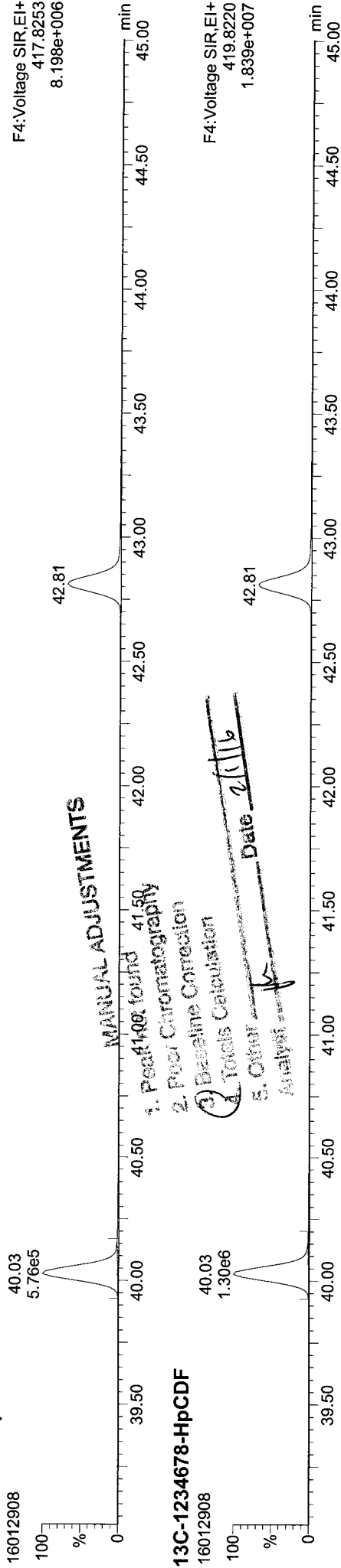


Quantify Sample Report

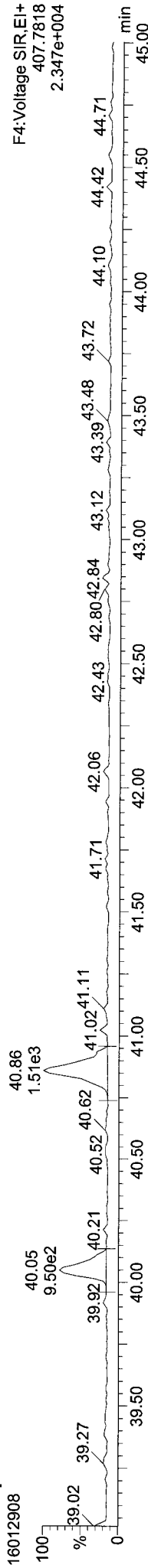
MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

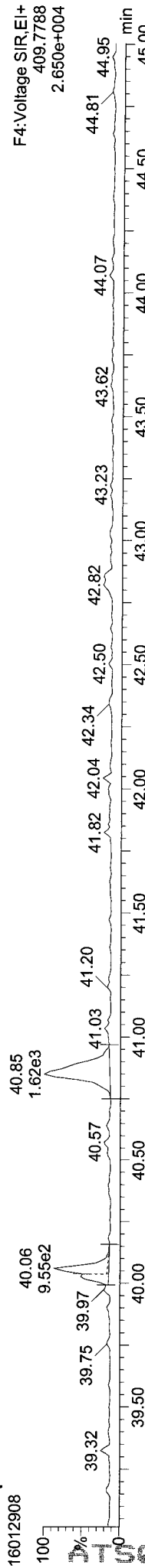
13C-1234678-HpCDF



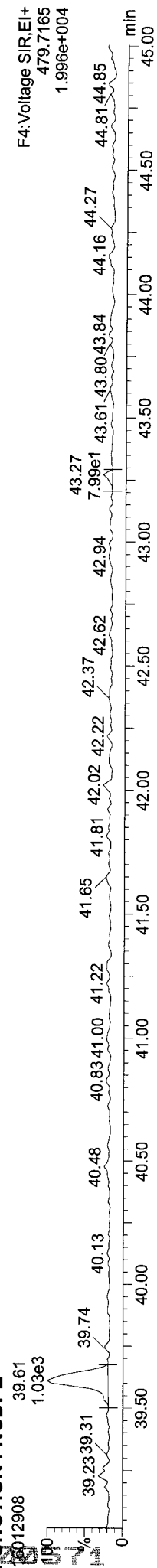
Total-heptafluorans



Total-heptafluorans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

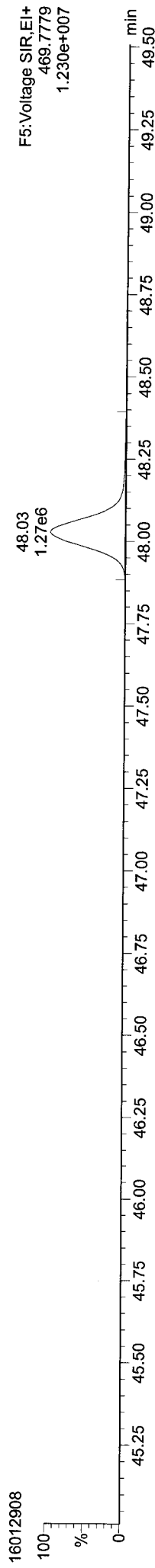
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

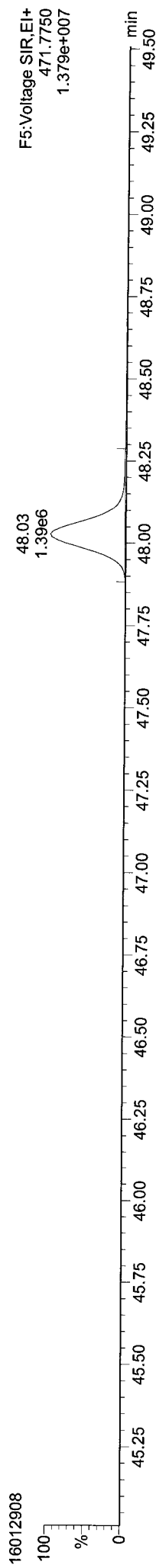
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

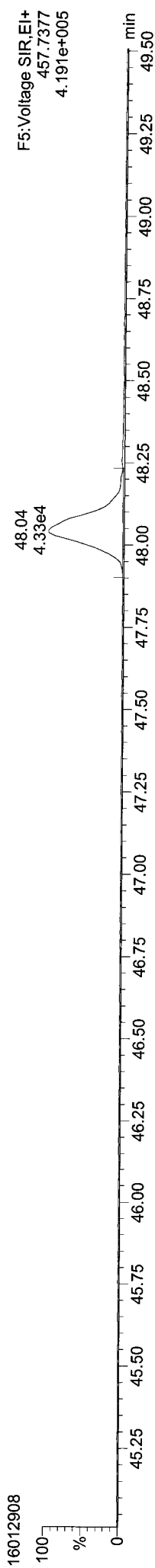
13C-OCDD



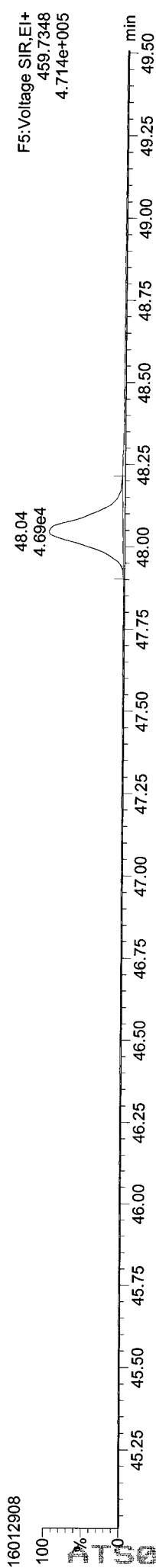
13C-OCDD



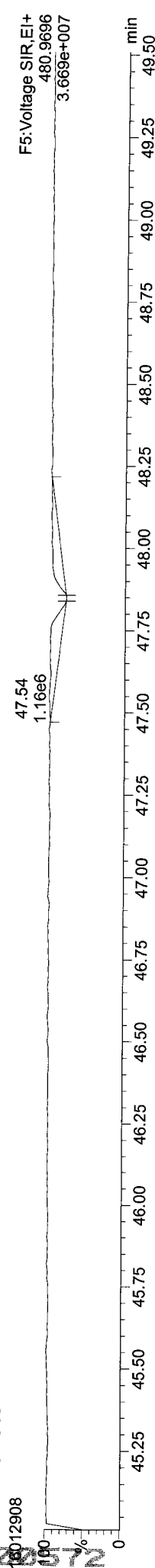
OCDD



OCDD

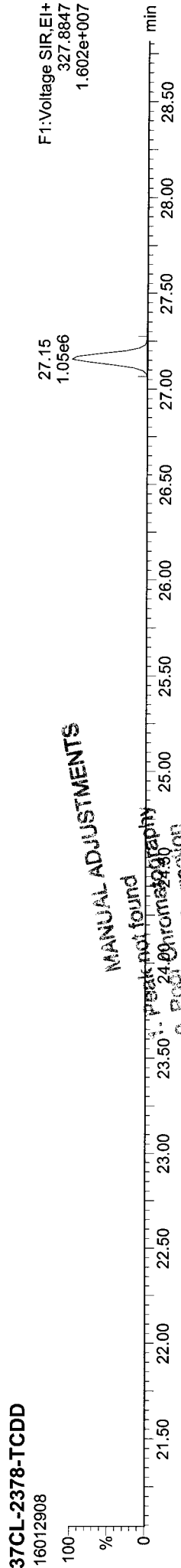


FUNCTIONS PFK



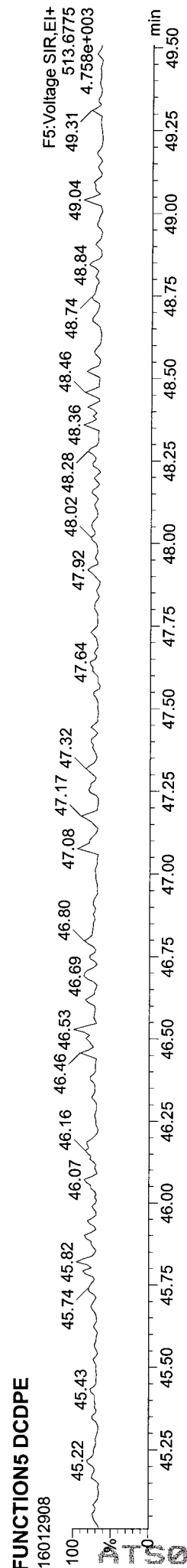
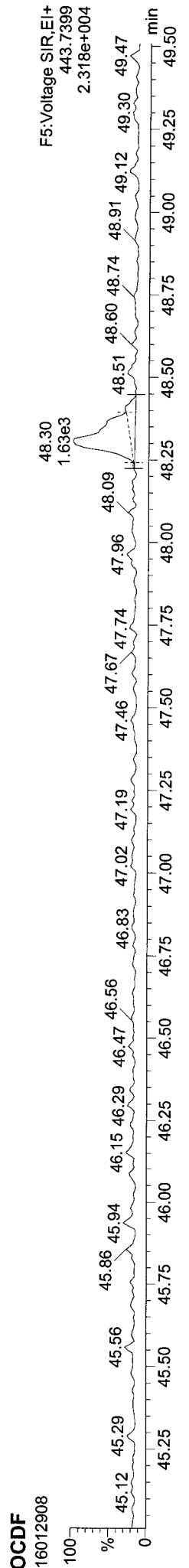
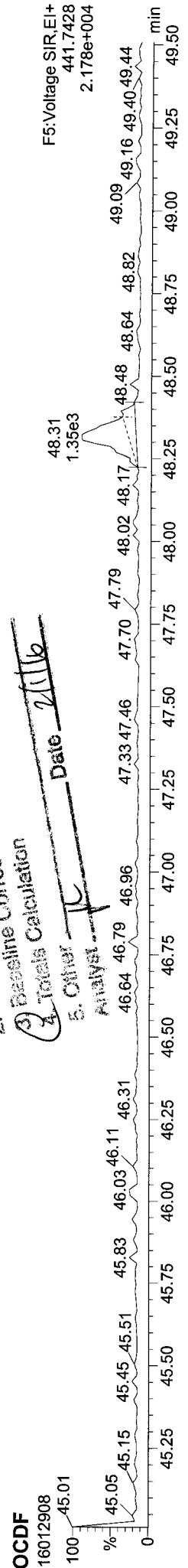
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
 Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk



MANUAL ADJUSTMENTS

1. Peak not found
 2. Post Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: PK Date: 2/1/16



AT50 : 00570

**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50C
 Lab.File ID: 16012909
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.019
12378-PeCDD	356/358	0.00			0.026
123478-HxCDD	390/392	0.00			0.019
123678-HxCDD	390/392	37.10	0.0588		
123789-HxCDD	390/392	37.49	0.0311		
1234678-HpCDD	424/426	41.93	0.602		
OCDD	458/460	48.06	8.08		
2378-TCDF	304/306	26.51	0.0809	0.0690	
12378-PeCDF	340/342	30.66	0.0307		
23478-PeCDF	340/342	32.00	0.0193	0.00700	
123478-HxCDF	374/376	0.00			0.020
234678-HxCDF	374/376	0.00			0.019
123678-HxCDF	374/376	0.00			0.019
123789-HxCDF	374/376	37.94	0.0325		
1234678-HpCDF	408/410	40.06	0.0870		
1234789-HpCDF	408/410	0.00			0.014
OCDF	442/444	48.32	0.222		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.511	1.001	1.04e3	1.78e3	0.827	0.586	0.770	1654	1353	1.16e4	2.59e4	7.0	YES	0.069	0.081
12378-PeCDF	30.664	1.000	5.53e2	3.35e2	0.824	1.648	1.550	1079	1604	9.94e3	6.10e3	9.2	NO	0.031	0.031
23478-PeCDF	32.002	1.000	4.76e2	7.98e1	0.850	5.971	1.550	1079	1604	8.11e3	2.61e3	7.5	YES	0.007	0.019
123478-HxCDF				0.973			1.240	1493	1136						
234678-HxCDF				1.025			1.240	1493	1136						
123678-HxCDF				0.953			1.240	1493	1136						
123789-HxCDF	37.943	1.001	4.32e2	3.87e2	0.956	1.116	1.240	1493	1136	6.53e3	9.40e3	4.4	NO	0.032	0.032
1234678-HpCDF	40.058	1.001	1.12e3	1.25e3	1.153	0.899	1.050	723	529	1.77e4	1.70e4	24.5	NO	0.087	0.087
1234789-HpCDF				1.131			1.050	723	529						
OCDF	48.321	1.006	1.87e3	1.95e3	1.023	0.963	0.890	1024	885	2.01e4	2.05e4	19.6	NO	0.222	0.222
2378-TCDD				1.023			0.770	1458	1000						
12378-PeCDD				0.939			1.550	1712	999						
123478-HxCDD				0.963			1.240	1042	1058						
123678-HxCDD	37.098	1.001	7.03e2	6.39e2	0.894	1.100	1.240	1042	1058	1.14e4	1.11e4	10.9	NO	0.059	0.059
123789-HxCDD	37.493	1.012	3.90e2	2.95e2	0.900	1.324	1.240	1042	1058	7.10e3	5.65e3	6.8	NO	0.031	0.031
1234678-HpCDD	41.932	1.001	6.15e3	5.69e3	0.964	1.080	1.050	1022	1131	7.15e4	7.88e4	69.9	NO	0.602	0.602
OCDD	48.061	1.000	6.22e4	6.94e4	0.969	0.897	0.890	1002	1251	6.05e5	6.83e5	604.1	NO	8.080	8.080
13C-2378-TCDF	26.496	1.006	1.86e6	2.36e6	1.502	0.786	0.770	6861	4001	2.77e7	3.52e7	4038.1	NO	99.215	99.215
13C-12378-PeCDF	30.664	1.165	2.15e6	1.35e6	1.215	1.590	1.550	3318	3192	3.23e7	2.02e7	9739.9	NO	102.063	102.063
13C-23478-PeCDF	32.002	1.215	2.07e6	1.31e6	1.181	1.574	1.550	3318	3192	3.14e7	1.99e7	9458.7	NO	101.197	101.197
13C-123478-HxCDF	35.707	0.953	9.21e5	1.79e6	1.246	0.515	0.510	2879	5538	1.36e7	2.64e7	4709.1	NO	89.168	89.168
13C-123678-HxCDF	35.849	0.956	1.02e6	1.95e6	1.375	0.522	0.510	2879	5538	1.50e7	2.89e7	5194.1	NO	88.694	88.694
13C-234678-HxCDF	36.792	0.982	9.58e5	1.85e6	1.186	0.518	0.510	2879	5538	1.42e7	2.74e7	4924.4	NO	96.984	96.984
13C-123789-HxCDF	37.910	1.011	9.04e5	1.73e6	1.135	0.522	0.510	2879	5538	1.37e7	2.59e7	4759.9	NO	95.260	95.260
13C-1234678-HpCDF	40.036	1.068	7.40e5	1.62e6	1.020	0.457	0.440	2411	2880	1.06e7	2.35e7	4402.3	NO	94.749	94.749
13C-1234789-HpCDF	42.820	1.142	5.91e5	1.33e6	0.824	0.444	0.440	2411	2880	7.11e6	1.59e7	2947.9	NO	95.715	95.715
13C-1234-TCDD	26.332	0.000	1.26e6	1.57e6	1.000	0.799	0.770	3631	1640	1.89e7	2.39e7	5217.4	NO	100.000	100.000
13C-2378-TCDD	27.139	1.031	1.12e6	1.43e6	0.983	0.787	0.770	3631	1640	1.67e7	2.12e7	4592.7	NO	91.803	91.803
13C-12378-PeCDD	32.265	1.225	1.34e6	8.57e5	0.787	1.559	1.550	1788	1729	2.03e7	1.30e7	11350.6	NO	98.474	98.474
13C-123478-HxCDD	36.934	0.985	1.31e6	1.03e6	1.031	1.268	1.240	2234	2054	1.95e7	1.53e7	8709.4	NO	92.970	92.970
13C-123678-HxCDD	37.066	0.989	1.41e6	1.14e6	1.137	1.238	1.240	2234	2054	2.04e7	1.62e7	9139.6	NO	92.125	92.125
13C-1234678-HpCDD	41.910	1.118	1.05e6	9.94e5	0.892	1.054	1.050	3061	2668	1.30e7	1.24e7	4243.9	NO	93.801	93.801
13C-OCDD	48.043	1.282	1.59e6	1.78e6	0.852	0.894	0.890	2089	2532	1.51e7	1.69e7	7242.3	NO	161.949	161.949

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	Pg
13C-123789-HxCDD	37.482	0.000	1.36e6	1.08e6	1.000	1.252	1.240	2234	2054	2.03e7	1.63e7	9083.9	NO		100.000
Total-tetrafurans			6.09e3		0.827			1654		9.36e4					0.465
Total-penta1			1.30e3					1095		1.33e4					0.053
Total-pentafurans			3.86e3		0.837			1079		5.62e4					0.236
Total-hexafurans			1.77e3		0.977			1493		2.95e4					0.125
Total-heptafurans			2.42e3		1.142			723		3.61e4					0.197
Total-Furans			1.75e4		0.971			1654		2.55e5					1.306
Total-tetraioxins			4.21e3		1.023			1458		5.56e4					0.353
Total-pentadioxins			1.64e3		0.939			1712		3.50e4					0.124
Total-hexadioxins			6.08e3		0.919			1042		8.87e4					0.494
Total-heptadioxins			6.16e4		0.964			1022		8.21e5					6.219
Total-Dioxins			1.36e5		0.950			1458		1.61e6					15.271
Total-TEQ			1.53e5					1458		1.86e6					16.577
37CL-2378-TCDD	27.154	1.031	1.27e6		1.091			1645		1.82e7		11089.2			41.076
FUNCTION1 PFK			2.28e7					893258		5.09e7					
FUNCTION2 PFK			0.00e0					186204		0.00e0					
FUNCTION3 PFK			0.00e0					554280		0.00e0					
FUNCTION4 PFK			1.31e6					431330		9.85e6					
FUNCTION5 PFK			5.83e6					317179		8.61e6					
FUNCTION1 HXCDPE			2.06e4					871		2.71e5					0.000
FUNCTION1 HPCDPE			2.46e3					917		3.85e4					0.000
FUNCTION2 HPCDPE			5.22e2					1119		1.59e4					0.000
FUNCTION3 OGDPE			8.47e1					735		1.63e3					0.000
FUNCTION4 NCDPE			1.80e3					734		2.44e4					0.000
FUNCTION5 DCDPE			0.00e0					500		0.00e0					0.000

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.75	2158.486	0.827	0.062		0.93	0.77	YES	9.9
2	1 2378-TCDF	303.9016	26.51	2822.135	0.827	0.081	0.069	0.59	0.77	YES	7.0
3	35 Total-tetrafurans	303.9016	25.84	841.585	0.827	0.024		1.37	0.77	YES	3.9
4	35 Total-tetrafurans	303.9016	25.42	1988.772	0.827	0.057		0.53	0.77	YES	6.4
5	35 Total-tetrafurans	303.9016	25.20	1886.206	0.827	0.054		0.56	0.77	YES	5.1
6	35 Total-tetrafurans	303.9016	24.75	1152.946	0.827	0.033		0.51	0.77	YES	5.3
7	35 Total-tetrafurans	303.9016	24.05	1243.673	0.827	0.036		0.31	0.77	YES	3.4
8	35 Total-tetrafurans	303.9016	23.84	2135.737	0.827	0.061		0.61	0.77	YES	7.1
9	35 Total-tetrafurans	303.9016	23.27	1071.104	0.827	0.031		0.35	0.77	YES	4.5
10	35 Total-tetrafurans	303.9016	23.02	906.525	0.827	0.026		0.74	0.77	NO	4.0

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.95	1688.131		0.053		3.31	1.55	YES	12.1

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	3 23478-PeCDF	339.8597	32.00	556.180	0.850	0.019	0.007	5.97	1.55	YES	7.5
2	2 12378-PeCDF	339.8597	30.66	887.905	0.824	0.031	0.031	1.65	1.55	NO	9.2
3	37 Total-pentafurans	339.8597	29.61	338.660	0.837	0.012		1.71	1.55	NO	4.7
4	37 Total-pentafurans	339.8597	29.52	2735.084	0.837	0.095		1.02	1.55	YES	14.7
5	37 Total-pentafurans	339.8597	29.40	760.945	0.837	0.026		1.27	1.55	YES	6.2
6	37 Total-pentafurans	339.8597	29.29	1518.966	0.837	0.053		1.14	1.55	YES	9.7

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	37.94	818.383	0.956	0.032	0.032	1.12	1.24	NO	4.4
2	38 Total-hexafurans	373.8208	35.07	1321.977	0.977	0.049		1.25	1.24	NO	8.7
3	38 Total-hexafurans	373.8208	34.19	1201.792	0.977	0.044		1.00	1.24	YES	6.7

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.87	2695.173	1.142	0.110		0.94	1.05	NO	25.4
2	8 1234678-HpCDF	407.7818	40.06	2365.856	1.153	0.087	0.087	0.90	1.05	NO	24.5

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.75	2158.486	0.827	0.062		0.93	0.77	YES	9.9
2	1 2378-TCDF	303.9016	26.51	2822.135	0.827	0.081	0.069	0.59	0.77	YES	7.0
3	35 Total-tetrafurans	303.9016	25.84	841.585	0.827	0.024		1.37	0.77	YES	3.9
4	35 Total-tetrafurans	303.9016	25.42	1988.772	0.827	0.057		0.53	0.77	YES	6.4
5	35 Total-tetrafurans	303.9016	25.20	1886.206	0.827	0.054		0.56	0.77	YES	5.1
6	35 Total-tetrafurans	303.9016	24.75	1152.946	0.827	0.033		0.51	0.77	YES	5.3
7	35 Total-tetrafurans	303.9016	24.05	1243.673	0.827	0.036		0.31	0.77	YES	3.4
8	35 Total-tetrafurans	303.9016	23.84	2135.737	0.827	0.061		0.61	0.77	YES	7.1
9	35 Total-tetrafurans	303.9016	23.27	1071.104	0.827	0.031		0.35	0.77	YES	4.5
10	35 Total-tetrafurans	303.9016	23.02	906.525	0.827	0.026		0.74	0.77	NO	4.0
11	40 Total-Furans	303.9016	22.78	318.577	0.971	0.008		2.83	0.77	YES	4.0
12	3 23478-PeCDF	339.8597	32.00	556.180	0.850	0.019	0.007	5.97	1.55	YES	7.5
13	2 12378-PeCDF	339.8597	30.66	887.905	0.824	0.031	0.031	1.65	1.55	NO	9.2
14	37 Total-pentafurans	339.8597	29.61	338.660	0.837	0.012		1.71	1.55	NO	4.7
15	37 Total-pentafurans	339.8597	29.52	2735.084	0.837	0.095		1.02	1.55	YES	14.7
16	37 Total-pentafurans	339.8597	29.40	760.945	0.837	0.026		1.27	1.55	YES	6.2
17	37 Total-pentafurans	339.8597	29.29	1518.966	0.837	0.053		1.14	1.55	YES	9.7
18	7 123789-HxCDF	373.8208	37.94	818.383	0.956	0.032	0.032	1.12	1.24	NO	4.4
19	38 Total-hexafurans	373.8208	35.07	1321.977	0.977	0.049		1.25	1.24	NO	8.7
20	38 Total-hexafurans	373.8208	34.19	1201.792	0.977	0.044		1.00	1.24	YES	6.7
21	10 OCDF	441.7428	48.32	3820.557	1.023	0.222	0.222	0.96	0.89	NO	19.6
22	39 Total-heptafurans	407.7818	40.87	2695.173	1.142	0.110		0.94	1.05	NO	25.4
23	8 1234678-HpCDF	407.7818	40.06	2365.856	1.153	0.087	0.087	0.90	1.05	NO	24.5
24	36 Total-penta1	339.8597	27.95	1688.131		0.053		3.31	1.55	YES	12.1

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	26.80	1718.732	1.023	0.066		1.12	0.77	YES	8.4
2	41 Total-tetradioxins	319.8965	25.76	1007.057	1.023	0.039		0.90	0.77	YES	4.5
3	41 Total-tetradioxins	319.8965	24.57	2148.674	1.023	0.082		0.73	0.77	NO	8.0
4	41 Total-tetradioxins	319.8965	24.30	4353.771	1.023	0.167		0.79	0.77	NO	17.3

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	29.52	443.770	0.939	0.022		0.90	1.55	YES	2.9
2	42 Total-pentadioxins	355.8546	31.02	373.529	0.939	0.018		3.04	1.55	YES	3.9
3	42 Total-pentadioxins	355.8546	30.68	1114.666	0.939	0.054		2.13	1.55	YES	8.7
4	42 Total-pentadioxins	355.8546	29.59	618.378	0.939	0.030		1.66	1.55	NO	5.0

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	35.61	1077.085	0.919	0.048		1.36	1.24	NO	9.3
2	43 Total-hexadioxins	389.8157	35.51	1401.894	0.919	0.062		1.47	1.24	YES	12.1
3	43 Total-hexadioxins	389.8157	34.79	3534.441	0.919	0.157		1.27	1.24	NO	29.5
4	15 123789-HxCDD	389.8157	37.49	685.091	0.900	0.031	0.031	1.32	1.24	NO	6.8
5	14 123678-HxCDD	389.8157	37.10	1341.715	0.894	0.059	0.059	1.10	1.24	NO	10.9
6	43 Total-hexadioxins	389.8157	35.97	3068.510	0.919	0.137		1.03	1.24	YES	16.5

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.93	11841.940	0.964	0.602	0.602	1.08	1.05	NO	69.9
2	44 Total-heptadioxins	423.7766	40.84	674.128	0.964	0.034		0.39	1.05	YES	4.3
3	44 Total-heptadioxins	423.7766	40.62	109812.867	0.964	5.583		1.01	1.05	NO	728.5

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	26.80	1718.732	1.023	0.066		1.12	0.77	YES	8.4
2	41 Total-tetradoxins	319.8965	25.76	1007.057	1.023	0.039		0.90	0.77	YES	4.5
3	41 Total-tetradoxins	319.8965	24.57	2148.674	1.023	0.082		0.73	0.77	NO	8.0
4	41 Total-tetradoxins	319.8965	24.30	4353.771	1.023	0.167		0.79	0.77	NO	17.3
5	42 Total-pentadoxins	355.8546	29.52	443.770	0.939	0.022		0.90	1.55	YES	2.9
6	42 Total-pentadoxins	355.8546	31.02	373.529	0.939	0.018		3.04	1.55	YES	3.9
7	42 Total-pentadoxins	355.8546	30.68	1114.666	0.939	0.054		2.13	1.55	YES	8.7
8	42 Total-pentadoxins	355.8546	29.59	618.378	0.939	0.030		1.66	1.55	NO	5.0
9	43 Total-hexadioxins	389.8157	35.61	1077.085	0.919	0.048		1.36	1.24	NO	9.3
10	43 Total-hexadioxins	389.8157	35.51	1401.894	0.919	0.062		1.47	1.24	YES	12.1
11	43 Total-hexadioxins	389.8157	34.79	3534.441	0.919	0.157		1.27	1.24	NO	29.5
12	15 123789-HxCDD	389.8157	37.49	685.091	0.900	0.031	0.031	1.32	1.24	NO	6.8
13	14 123678-HxCDD	389.8157	37.10	1341.715	0.894	0.059	0.059	1.10	1.24	NO	10.9
14	43 Total-hexadioxins	389.8157	35.97	3068.510	0.919	0.137		1.03	1.24	YES	16.5
15	16 1234678-HpCDD	423.7766	41.93	11841.940	0.964	0.602	0.602	1.08	1.05	NO	69.9
16	44 Total-heptadioxins	423.7766	40.84	674.128	0.964	0.034		0.39	1.05	YES	4.3
17	44 Total-heptadioxins	423.7766	40.62	109812.867	0.964	5.583		1.01	1.05	NO	728.5
18	17 OCDD	457.7377	48.06	131660.906	0.969	8.080	8.080	0.90	0.89	NO	604.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.75	2158.486	0.827	0.062		0.93	0.77	YES	9.9
2	1 2378-TCDF	303.9016	26.51	2822.135	0.827	0.081	0.069	0.59	0.77	YES	7.0
3	35 Total-tetrafurans	303.9016	25.84	841.585	0.827	0.024		1.37	0.77	YES	3.9
4	35 Total-tetrafurans	303.9016	25.42	1988.772	0.827	0.057		0.53	0.77	YES	6.4
5	35 Total-tetrafurans	303.9016	25.20	1886.206	0.827	0.054		0.56	0.77	YES	5.1
6	35 Total-tetrafurans	303.9016	24.75	1152.946	0.827	0.033		0.51	0.77	YES	5.3
7	35 Total-tetrafurans	303.9016	24.05	1243.673	0.827	0.036		0.31	0.77	YES	3.4
8	35 Total-tetrafurans	303.9016	23.84	2135.737	0.827	0.061		0.61	0.77	YES	7.1
9	35 Total-tetrafurans	303.9016	23.27	1071.104	0.827	0.031		0.35	0.77	YES	4.5
10	35 Total-tetrafurans	303.9016	23.02	906.525	0.827	0.026		0.74	0.77	NO	4.0
11	40 Total-Furans	303.9016	22.78	318.577	0.971	0.008		2.83	0.77	YES	4.0
12	3 23478-PeCDF	339.8597	32.00	556.180	0.850	0.019	0.007	5.97	1.55	YES	7.5
13	2 12378-PeCDF	339.8597	30.66	887.905	0.824	0.031	0.031	1.65	1.55	NO	9.2
14	37 Total-pentafurans	339.8597	29.61	338.660	0.837	0.012		1.71	1.55	NO	4.7
15	37 Total-pentafurans	339.8597	29.52	2735.084	0.837	0.095		1.02	1.55	YES	14.7
16	37 Total-pentafurans	339.8597	29.40	760.945	0.837	0.026		1.27	1.55	YES	6.2
17	37 Total-pentafurans	339.8597	29.29	1518.966	0.837	0.053		1.14	1.55	YES	9.7
18	7 123789-HxCDF	373.8208	37.94	818.383	0.956	0.032	0.032	1.12	1.24	NO	4.4
19	38 Total-hexafurans	373.8208	35.07	1321.977	0.977	0.049		1.25	1.24	NO	8.7
20	38 Total-hexafurans	373.8208	34.19	1201.792	0.977	0.044		1.00	1.24	YES	6.7
21	10 OCDF	441.7428	48.32	3820.557	1.023	0.222	0.222	0.96	0.89	NO	19.6
22	39 Total-heptafurans	407.7818	40.87	2695.173	1.142	0.110		0.94	1.05	NO	25.4
23	8 1234678-HpCDF	407.7818	40.06	2365.856	1.153	0.087	0.087	0.90	1.05	NO	24.5
24	36 Total-penta1	339.8597	27.95	1688.131		0.053		3.31	1.55	YES	12.1
25	41 Total-tetradiioxins	319.8965	26.80	1718.732	1.023	0.066		1.12	0.77	YES	8.4
26	41 Total-tetradiioxins	319.8965	25.76	1007.057	1.023	0.039		0.90	0.77	YES	4.5
27	41 Total-tetradiioxins	319.8965	24.57	2148.674	1.023	0.082		0.73	0.77	NO	8.0
28	41 Total-tetradiioxins	319.8965	24.30	4353.771	1.023	0.167		0.79	0.77	NO	17.3
29	42 Total-pentadiioxins	355.8546	29.52	443.770	0.939	0.022		0.90	1.55	YES	2.9
30	42 Total-pentadiioxins	355.8546	31.02	373.529	0.939	0.018		3.04	1.55	YES	3.9
31	42 Total-pentadiioxins	355.8546	30.68	1114.666	0.939	0.054		2.13	1.55	YES	8.7
32	42 Total-pentadiioxins	355.8546	29.59	618.378	0.939	0.030		1.66	1.55	NO	5.0
33	43 Total-hexadiioxins	389.8157	35.61	1077.085	0.919	0.048		1.36	1.24	NO	9.3
34	43 Total-hexadiioxins	389.8157	35.51	1401.894	0.919	0.062		1.47	1.24	YES	12.1
35	43 Total-hexadiioxins	389.8157	34.79	3534.441	0.919	0.157		1.27	1.24	NO	29.5
36	15 123789-HxCDD	389.8157	37.49	685.091	0.900	0.031	0.031	1.32	1.24	NO	6.8
37	14 123678-HxCDD	389.8157	37.10	1341.715	0.894	0.059	0.059	1.10	1.24	NO	10.9
38	43 Total-hexadiioxins	389.8157	35.97	3068.510	0.919	0.137		1.03	1.24	YES	16.5
39	16 1234678-HpCDD	423.7766	41.93	11841.940	0.964	0.602	0.602	1.08	1.05	NO	69.9
40	44 Total-heptadiioxins	423.7766	40.84	674.128	0.964	0.034		0.39	1.05	YES	4.3
41	44 Total-heptadiioxins	423.7766	40.62	109812.867	0.964	5.583		1.01	1.05	NO	728.5
42	17 OCDD	457.7377	48.06	131660.906	0.969	8.080	8.080	0.90	0.89	NO	604.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	23.21	0.000							3.1
2	48 FUNCTION1 PFK	330.9792	22.90	0.000							7.3
3	48 FUNCTION1 PFK	330.9792	22.13	0.000							14.8
4	48 FUNCTION1 PFK	330.9792	21.46	0.000							31.7

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	43.73	0.000							4.1
2	51 FUNCTION4 PFK	430.9728	42.03	0.000							9.9
3	51 FUNCTION4 PFK	430.9728	44.35	0.000							8.8

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	48.26	0.000							6.3
2	52 FUNCTION5 PFK	480.9696	47.50	0.000							20.8

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.05	0.000		0.000					3.7
2	53 FUNCTION1 HXCD...	375.8364	26.74	0.000		0.000					2.1
3	53 FUNCTION1 HXCD...	375.8364	26.59	0.000		0.000					241.0
4	53 FUNCTION1 HXCD...	375.8364	26.32	0.000		0.000					64.1

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.53	0.000		0.000					4.1
2	54 FUNCTION1 HPCD...	409.7974	22.82	0.000		0.000					37.9

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	29.91	0.000		0.000					4.2
2	55 FUNCTION2 HPCD...	409.7974	29.78	0.000		0.000					3.0
3	55 FUNCTION2 HPCD...	409.7974	29.73	0.000		0.000					2.2
4	55 FUNCTION2 HPCD...	409.7974	32.48	0.000		0.000					2.7
5	55 FUNCTION2 HPCD...	409.7974	32.07	0.000		0.000					2.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	36.64	0.000	0.000					2.2

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	40.97	0.000	0.000					3.0
2	57 FUNCTION4 NCDPE	479.7165	39.61	0.000	0.000					30.3

ETHERS6

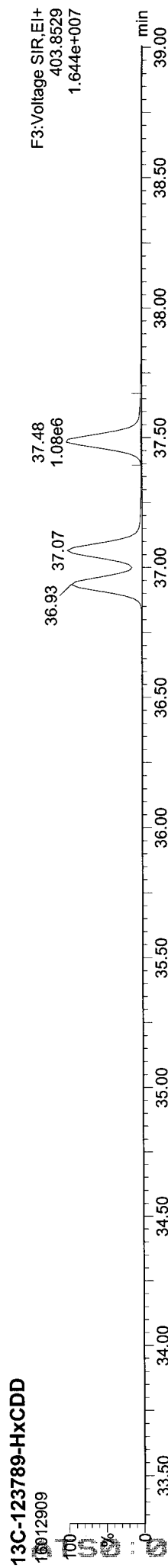
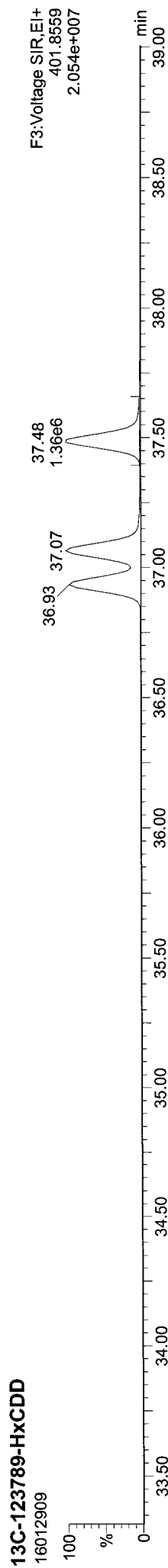
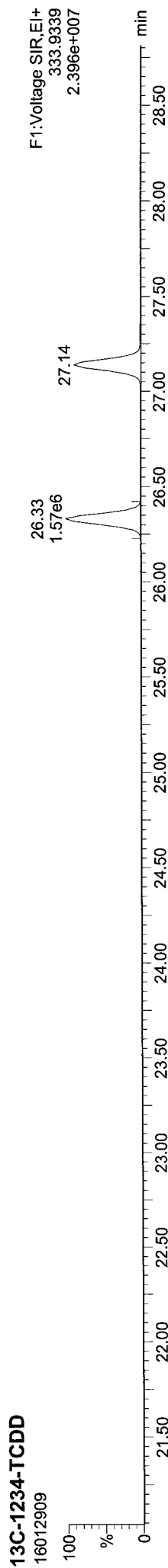
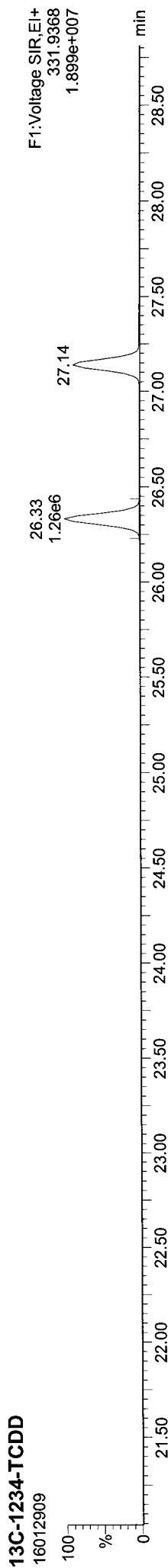
	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

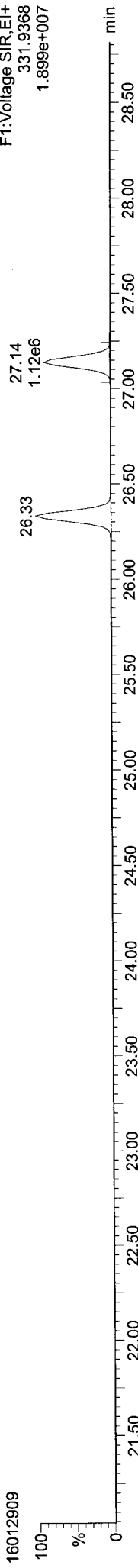


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

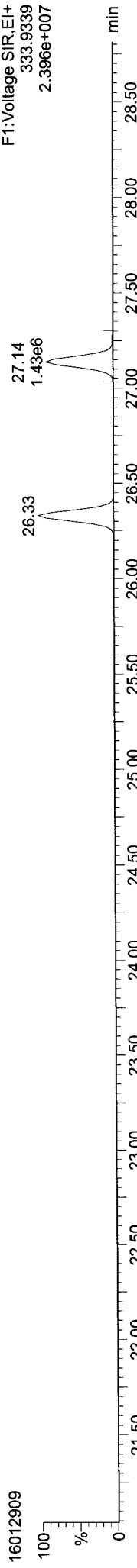
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

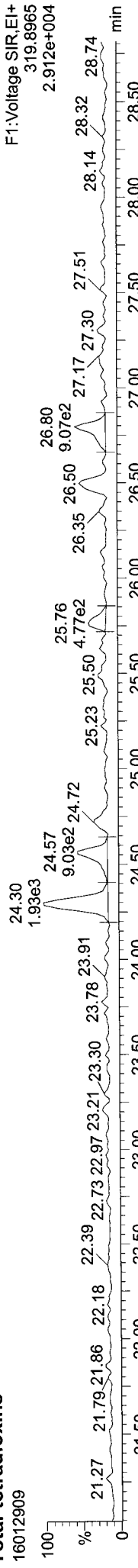
13C-2378-TCDD



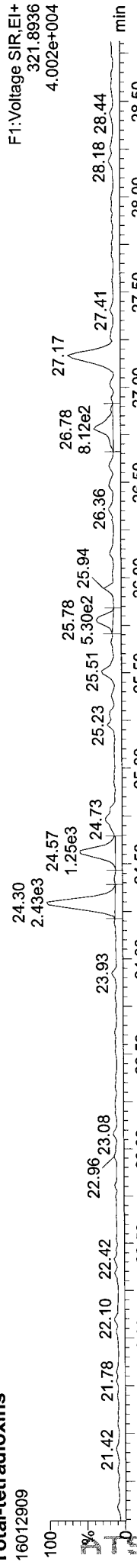
13C-2378-TCDD



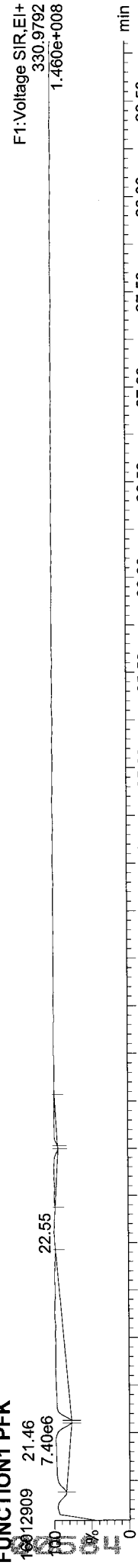
Total-tetradiioxins



Total-tetradiioxins



FUNCTION1 PFK



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

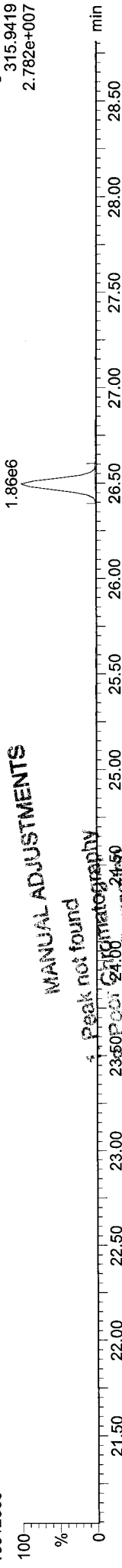
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

16012909



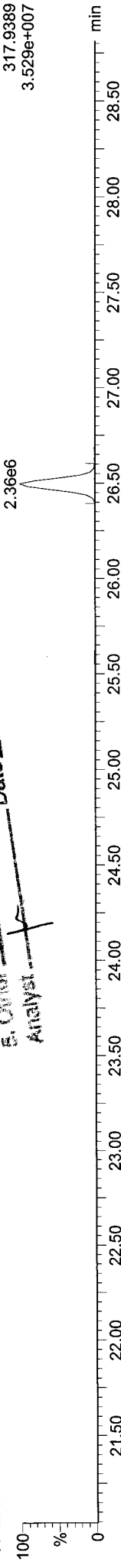
F1:Voltage SIR,EI+
315.9419
2.782e+007

MANUAL ADJUSTMENTS

1. Peak not found
2. 23.60 for 24.00 chromatography
3. Baseline Correction
4. Total Calculation

13C-2378-TCDF

16012909

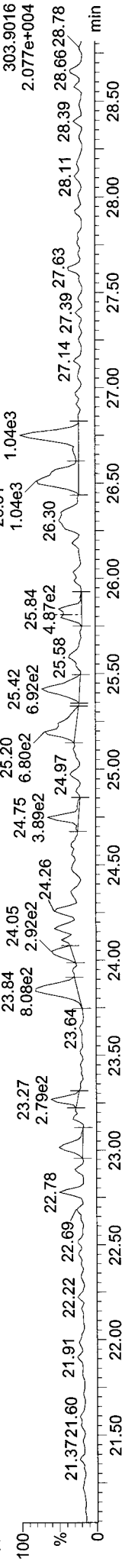


F1:Voltage SIR,EI+
317.9389
3.529e+007

5. Cutout
Analyst: [Signature]
Date: 2/1/16

Total-tetrafurans

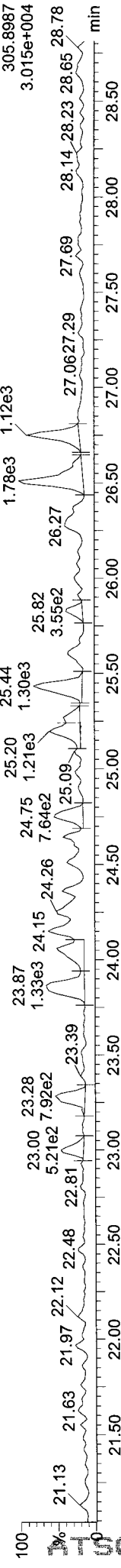
16012909



F1:Voltage SIR,EI+
303.9016
2.077e+004

Total-tetrafurans

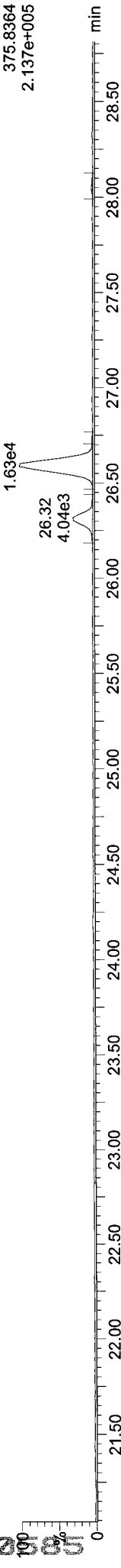
16012909



F1:Voltage SIR,EI+
305.8987
3.015e+004

FUNCTION1 HXCDPE

16012909



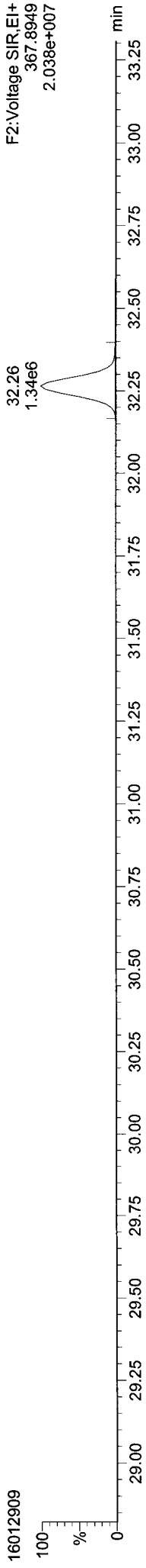
F1:Voltage SIR,EI+
375.8364
2.137e+005

Quantify Sample Report MassLynx V4.1 SCN909

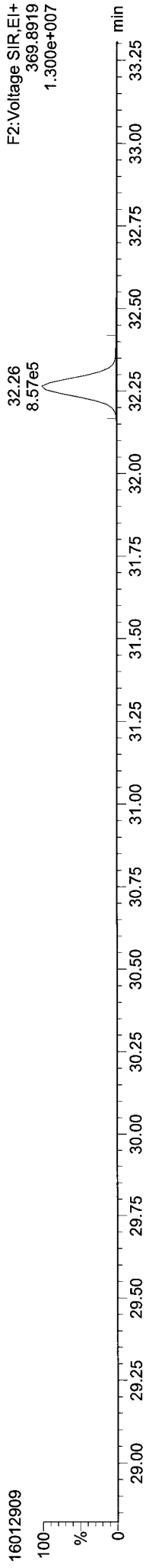
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

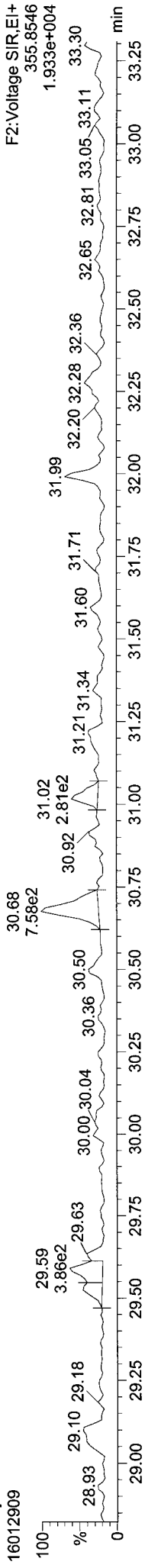
13C-12378-PeCDD



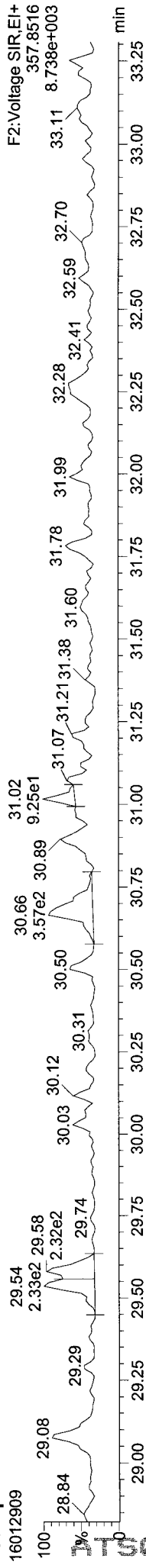
13C-12378-PeCDD



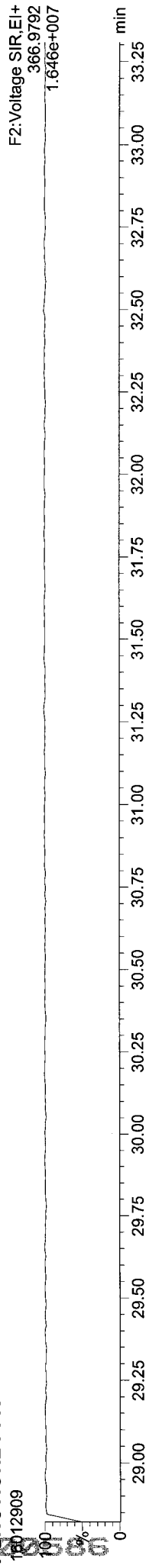
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

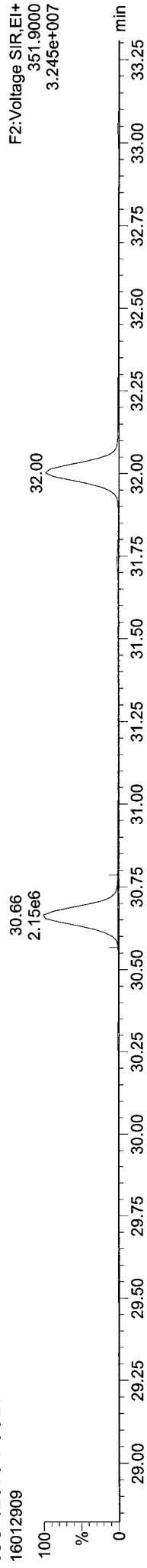
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

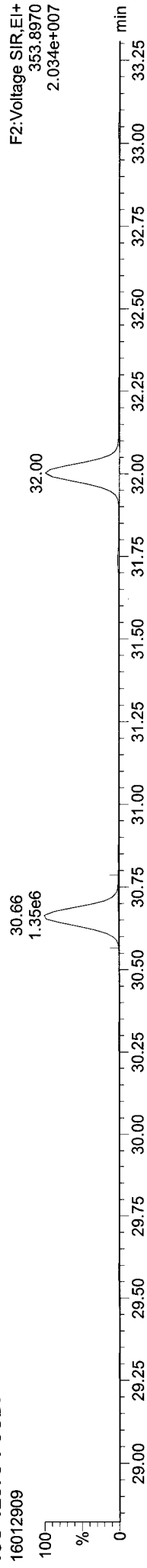
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

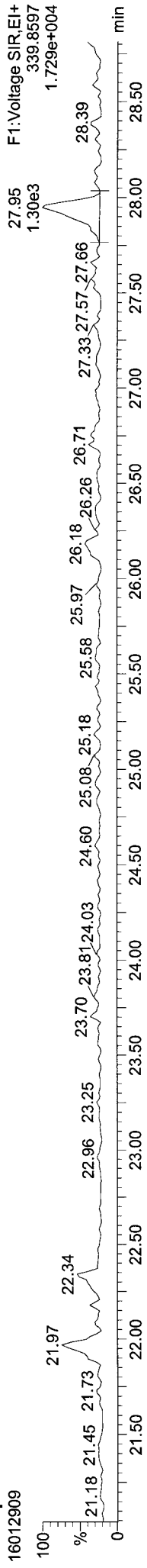
13C-12378-PeCDF



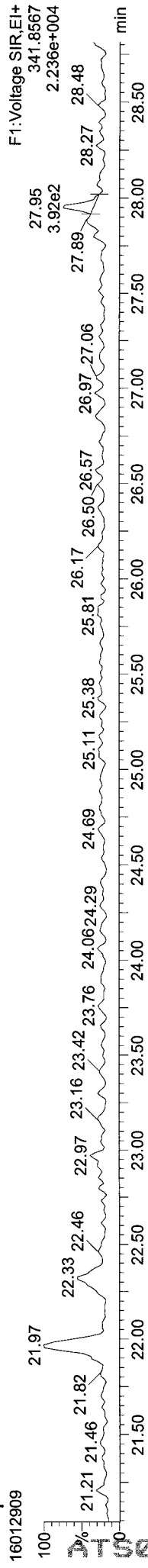
13C-12378-PeCDF



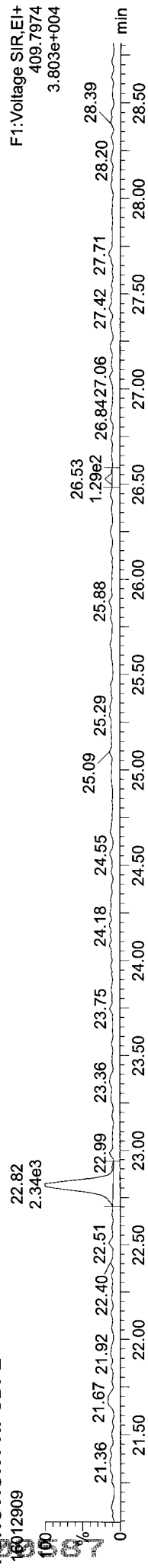
Total-penta1



Total-penta1



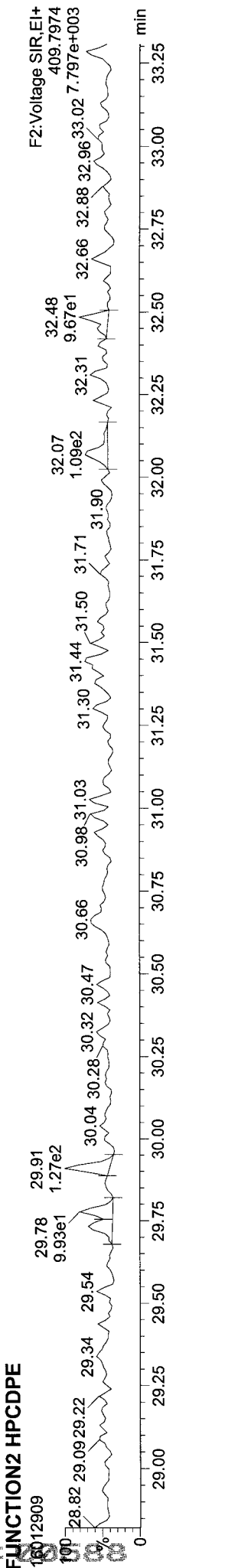
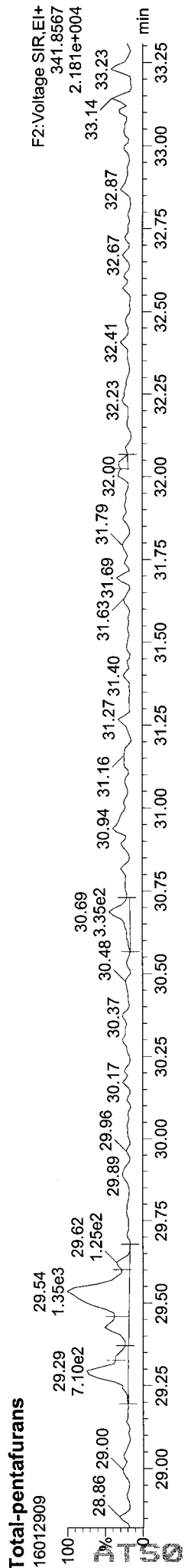
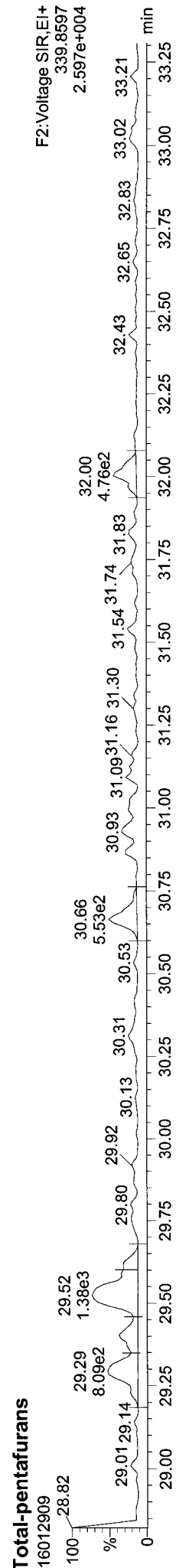
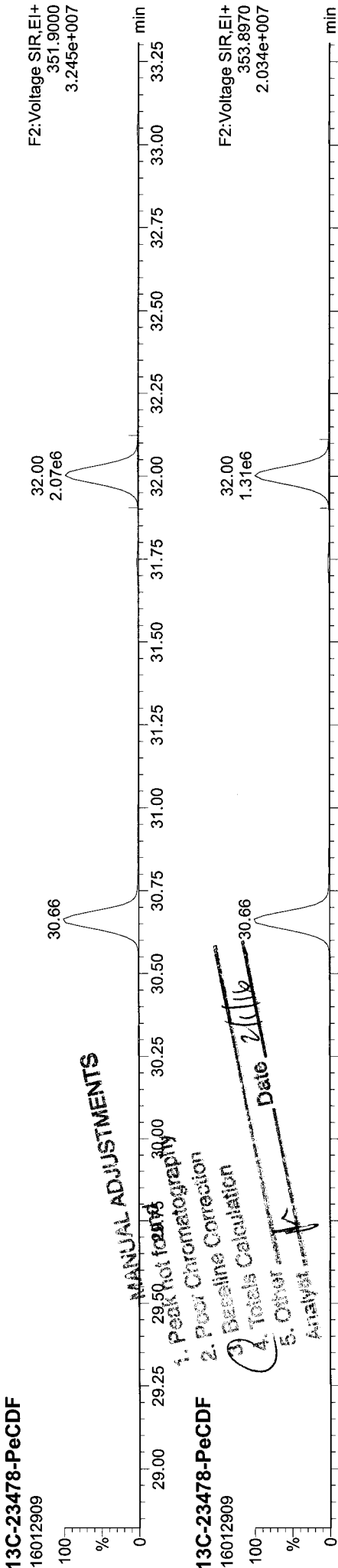
FUNCTION1 HPCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

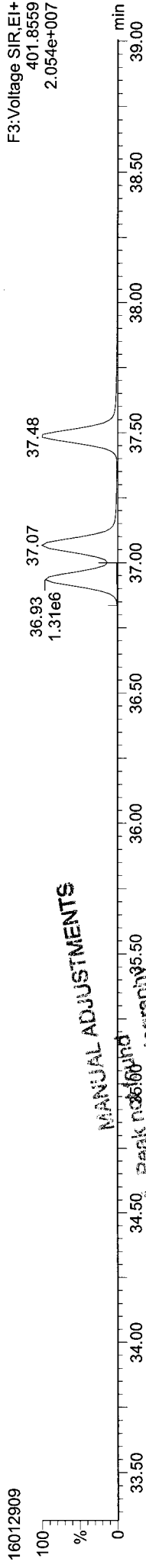


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

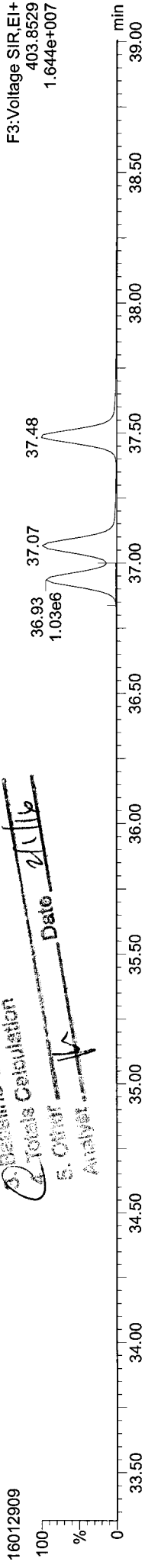
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

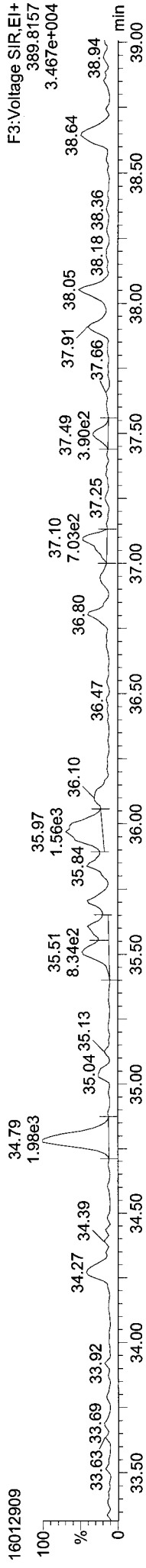
13C-123478-HxCDD



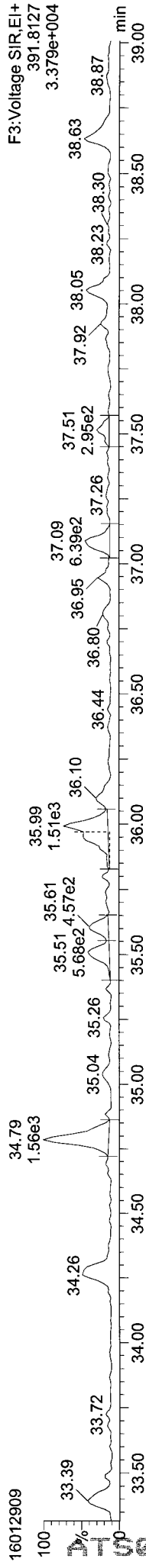
13C-123478-HxCDD



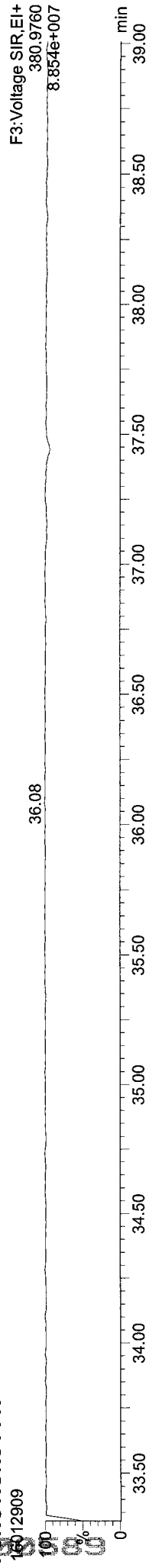
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

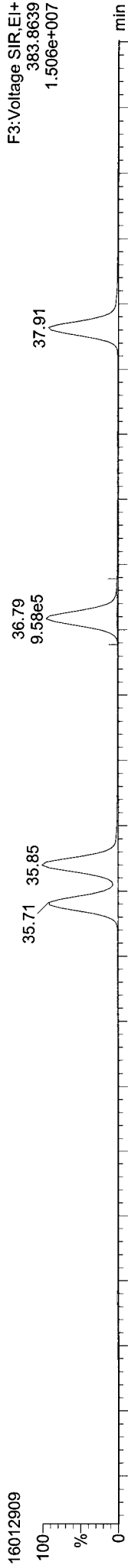
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

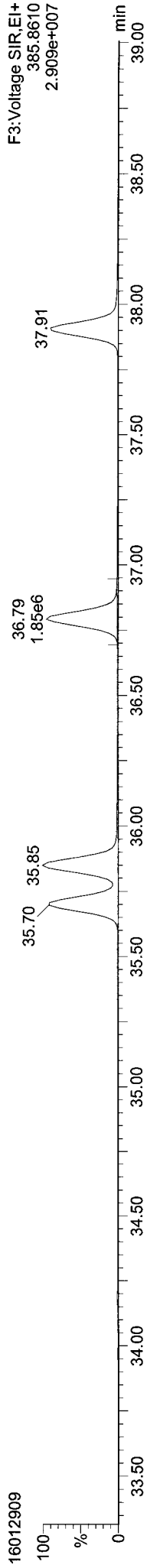
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

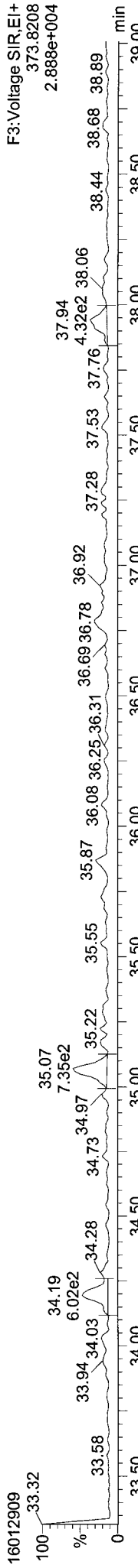
13C-234678-HxCDF



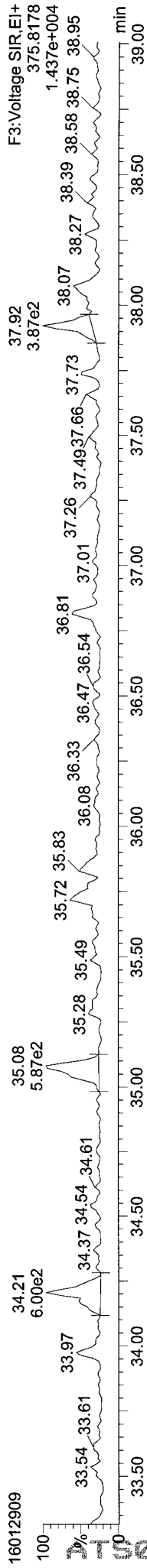
13C-234678-HxCDF



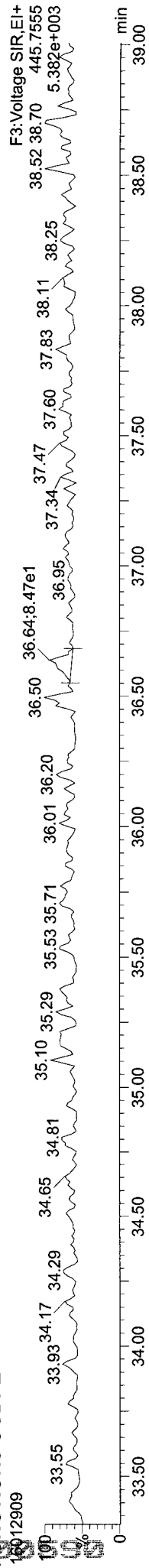
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

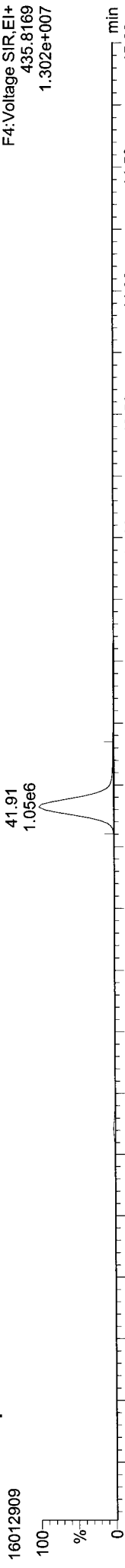


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

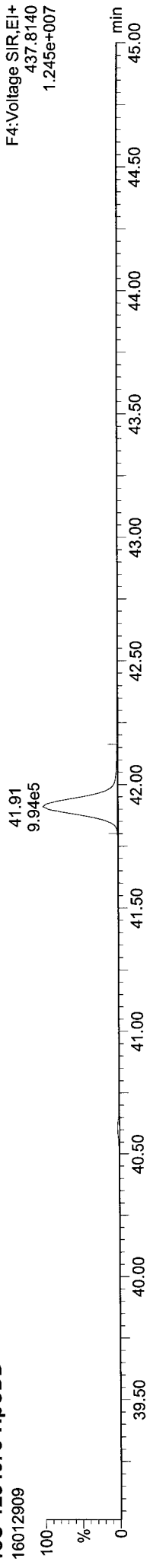
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

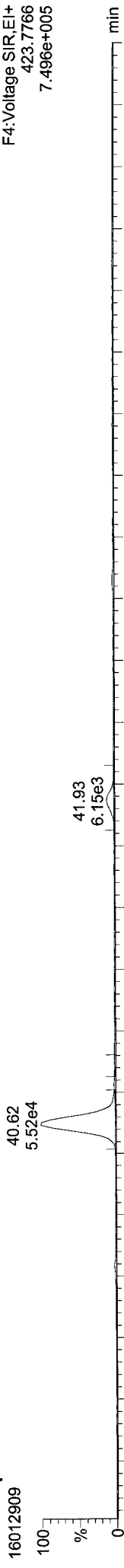
13C-1234678-HpCDD



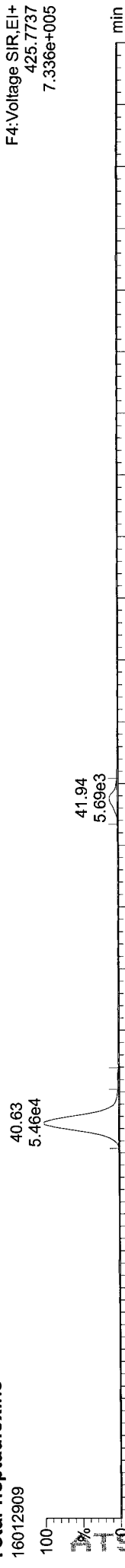
13C-1234678-HpCDD



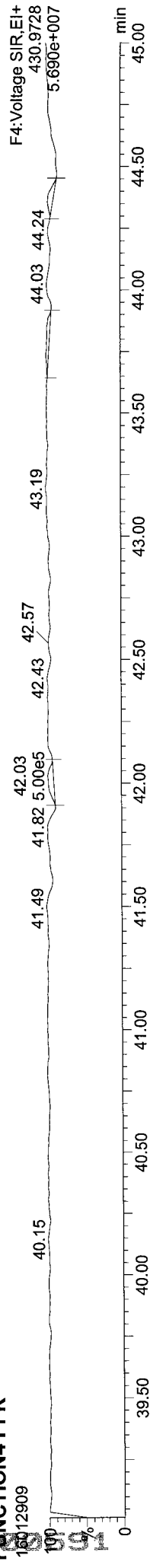
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

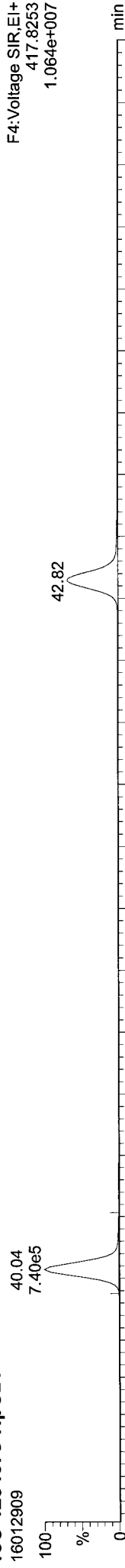
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

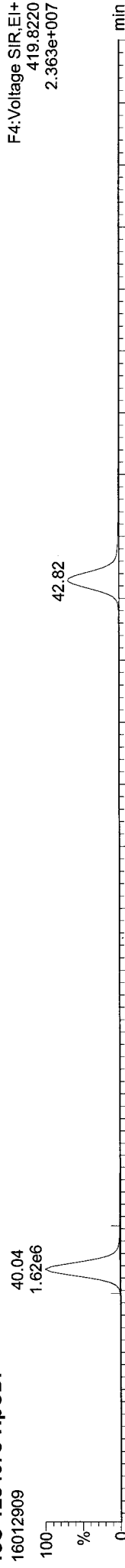
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

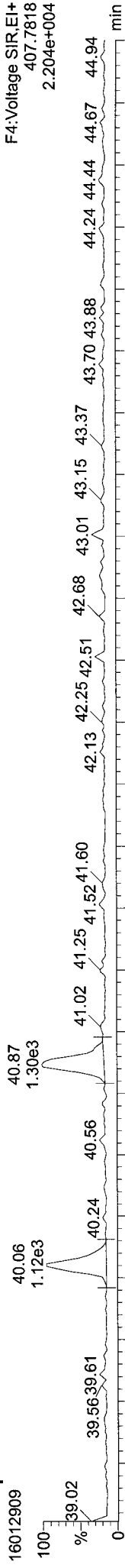
13C-1234678-HpCDF



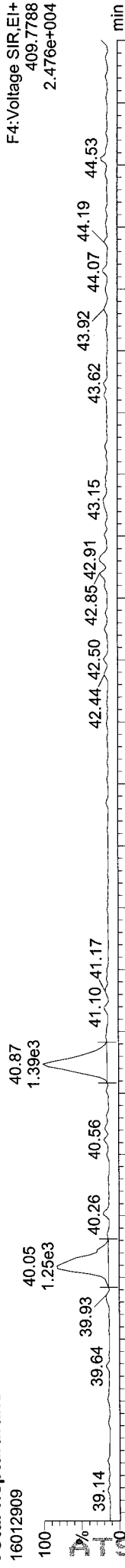
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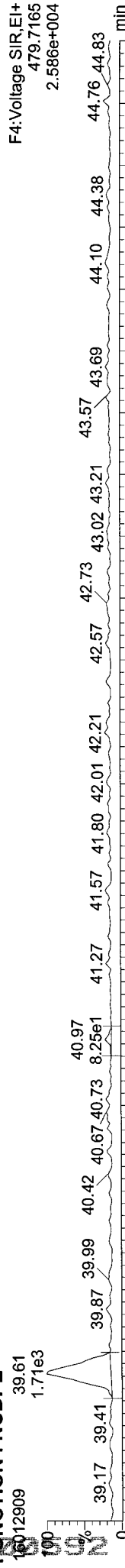
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



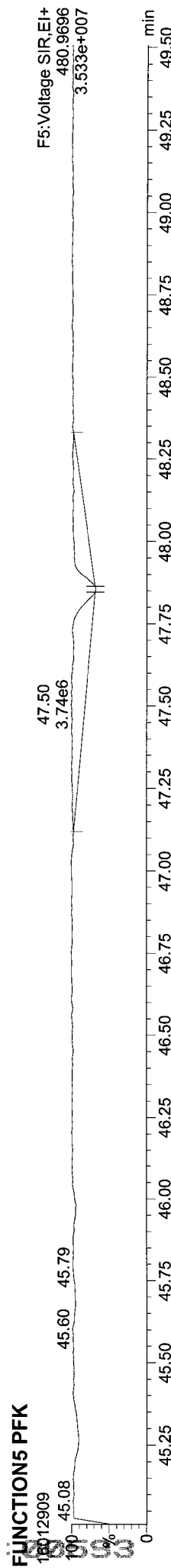
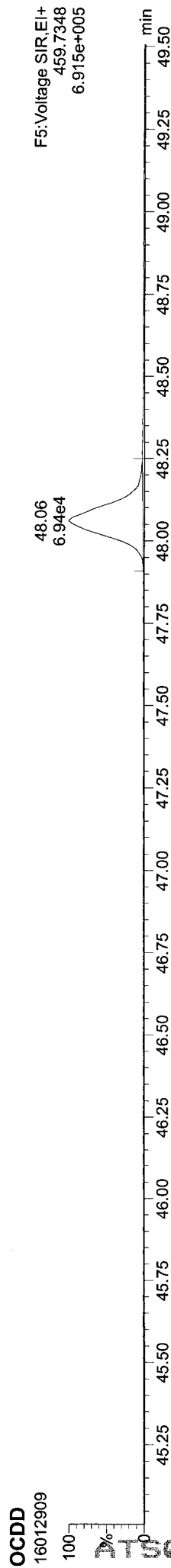
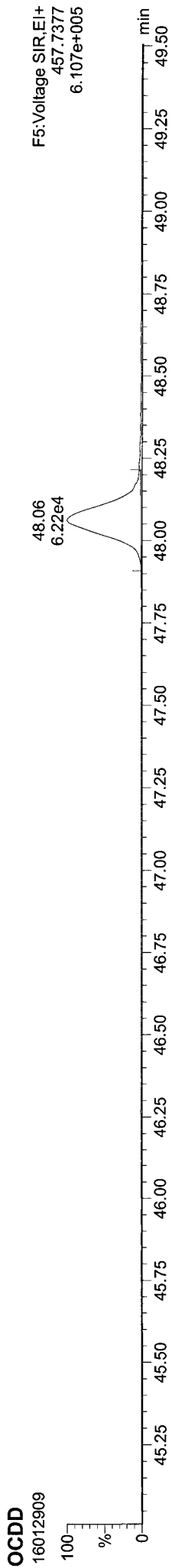
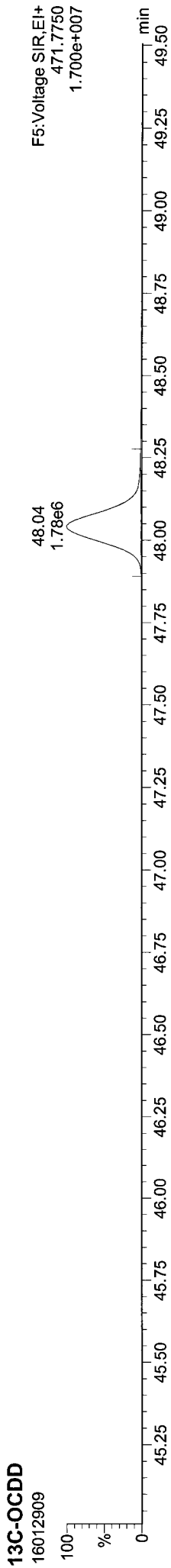
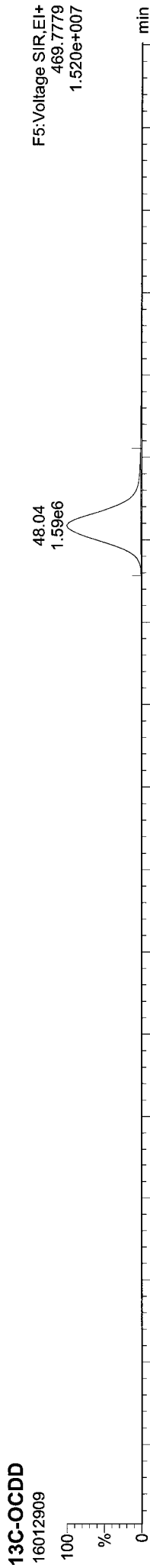
Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk



**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50D
 Lab.File ID: 16012910
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.019
12378-PeCDD	356/358	0.00			0.021
123478-HxCDD	390/392	0.00			0.029
123678-HxCDD	390/392	37.10	0.0328	0.0280	
123789-HxCDD	390/392	0.00			0.030
1234678-HpCDD	424/426	41.94	0.412		
OCDD	458/460	48.06	4.75		
2378-TCDF	304/306	26.53	0.0742	0.0590	
12378-PeCDF	340/342	0.00			0.033
23478-PeCDF	340/342	0.00			0.031
123478-HxCDF	374/376	35.74	0.0197		
234678-HxCDF	374/376	0.00			0.020
123678-HxCDF	374/376	0.00			0.020
123789-HxCDF	374/376	37.95	0.0225	0.0210	
1234678-HpCDF	408/410	40.06	0.0639		
1234789-HpCDF	408/410	0.00			0.018
OCDF	442/444	48.35	0.160		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Iodioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurvedB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.527	1.001	7.62e2	1.45e3	0.827	0.524	0.770	1196	2449	9.96e3	1.99e4	8.3	YES	0.059	0.074
12378-PeCDF				0.824			1.550	1855	2089						
23478-PeCDF				0.850			1.550	1855	2089						
123478-HxCDF	35.740	1.001	2.30e2	1.93e2	0.973	1.190	1.240	994	1361	5.83e3	4.65e3	5.9	NO	0.020	0.020
234678-HxCDF				1.025			1.240	994	1361						
123678-HxCDF				0.953			1.240	994	1361						
123789-HxCDF	37.954	1.001	2.26e2	2.19e2	0.956	1.028	1.240	994	1361	5.12e3	5.32e3	5.1	YES	0.021	0.022
1234678-HpCDF	40.059	1.000	7.06e2	6.21e2	1.153	1.135	1.050	570	590	9.63e3	1.05e4	16.9	NO	0.064	0.064
1234789-HpCDF				1.131			1.050	570	590						
OCDF	48.350	1.006	9.15e2	1.20e3	1.023	0.761	0.890	824	1010	1.06e4	1.54e4	12.9	NO	0.160	0.160
2378-TCDD				1.023			0.770	1352	720						
12378-PeCDD				0.939			1.550	1122	680						
123478-HxCDD				0.963			1.240	1457	1118						
123678-HxCDD	37.099	1.001	3.69e2	2.28e2	0.894	1.621	1.240	1457	1118	6.32e3	4.28e3	4.3	YES	0.028	0.033
123789-HxCDD				0.900			1.240	1457	1118						
1234678-HpCDD	41.944	1.001	3.01e3	2.85e3	0.964	1.057	1.050	806	639	3.78e4	4.06e4	46.9	NO	0.412	0.412
OCDD	48.063	1.000	2.80e4	3.14e4	0.969	0.890	0.890	730	877	2.88e5	3.13e5	394.1	NO	4.749	4.749
13C-2378-TCDF	26.511	1.007	1.58e6	2.03e6	1.502	0.781	0.770	6128	3199	2.35e7	2.98e7	3831.7	NO	94.748	94.748
13C-12378-PeCDF	30.665	1.165	1.79e6	1.13e6	1.215	1.592	1.550	2991	2710	2.68e7	1.70e7	8956.5	NO	94.589	94.589
13C-23478-PeCDF	32.013	1.216	1.74e6	1.11e6	1.181	1.574	1.550	2991	2710	2.71e7	1.71e7	9057.2	NO	94.945	94.945
13C-123478-HxCDF	35.707	0.952	7.51e5	1.46e6	1.246	0.514	0.510	2198	4021	1.14e7	2.22e7	5178.2	NO	89.128	89.128
13C-123678-HxCDF	35.861	0.956	8.32e5	1.63e6	1.375	0.512	0.510	2198	4021	1.24e7	2.37e7	5636.9	NO	89.718	89.718
13C-234678-HxCDF	36.803	0.982	7.75e5	1.50e6	1.186	0.518	0.510	2198	4021	1.15e7	2.19e7	5219.6	NO	96.118	96.118
13C-123789-HxCDF	37.910	1.011	7.09e5	1.36e6	1.135	0.521	0.510	2198	4021	1.07e7	2.06e7	4889.7	NO	91.623	91.623
13C-1234678-HpCDF	40.048	1.068	5.54e5	1.25e6	1.020	0.444	0.440	1833	2655	7.96e6	1.77e7	4342.9	NO	88.600	88.600
13C-1234789-HpCDF	42.832	1.142	4.35e5	9.81e5	0.824	0.443	0.440	1833	2655	5.32e6	1.18e7	2905.1	NO	86.278	86.278
13C-1234-TCDD	26.332	0.000	1.12e6	1.42e6	1.000	0.794	0.770	3670	1669	1.65e7	2.08e7	4490.9	NO	100.000	100.000
13C-2378-TCDD	27.154	1.031	9.63e5	1.23e6	0.983	0.785	0.770	3670	1669	1.44e7	1.83e7	3917.4	NO	87.739	87.739
13C-12378-PeCDD	32.276	1.226	1.11e6	7.12e5	0.787	1.565	1.550	1483	1210	1.69e7	1.07e7	11420.9	NO	91.312	91.312
13C-123478-HxCDD	36.946	0.985	1.06e6	8.24e5	1.031	1.284	1.240	2243	2527	1.56e7	1.22e7	6974.7	NO	91.657	91.657
13C-123678-HxCDD	37.077	0.989	1.14e6	8.98e5	1.137	1.265	1.240	2243	2527	1.61e7	1.26e7	7155.3	NO	89.853	89.853
13C-1234678-HpCDD	41.923	1.118	7.54e5	7.20e5	0.892	1.047	1.050	2670	2080	9.21e6	8.86e6	3449.8	NO	83.024	83.024
13C-OCDD	48.045	1.281	1.20e6	1.39e6	0.852	0.869	0.890	1702	1265	1.17e7	1.32e7	6865.7	NO	152.164	152.164

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	P9
13C-123789-HxCDD	37.494	0.000	1.11e6	8.84e5	1.000	1.252	1.240	2243	2527	1.70e7	1.36e7	7596.2	NO		100.000
Total-tetrafurans			4.76e3		0.827			1196		6.83e4					0.401
Total-penta1			6.85e2					860		8.61e3					0.046
Total-pentafurans			7.48e2		0.837			1855		1.78e4					0.062
Total-hexafurans			1.05e3		0.977			994		2.43e4					0.102
Total-heptafurans			1.56e3		1.142			570		2.49e4					0.153
Total-Furans			9.83e3		0.971			1196		1.57e5					0.937
Total-tetradioxins			2.69e3		1.023			1352		3.79e4					0.246
Total-pentadioxins			9.09e2		0.939			1122		1.22e4					0.067
Total-hexadioxins			3.38e3		0.919			1457		6.30e4					0.339
Total-heptadioxins			1.82e4		0.964			806		2.49e5					2.454
Total-Dioxins			5.32e4		0.950			1352		6.50e5					7.855
Total-TEQ			6.30e4					1352		8.07e5					8.792
37CL-2378-TcDD	27.169	1.032	1.10e6		1.091			1286		1.68e7		13105.7			39.735
FUNCTION1 PFK			1.34e8					894407		7.12e8					
FUNCTION2 PFK			5.03e4					178848		1.87e6					0.000
FUNCTION3 PFK			1.44e6					721315		5.94e6					0.000
FUNCTION4 PFK			3.56e6					447737		2.31e7					
FUNCTION5 PFK			2.88e7					366888		8.61e7					
FUNCTION1 HXCDPE			1.51e4					758		2.02e5					0.000
FUNCTION1 HPCDPE			3.80e3					899		6.69e4					0.000
FUNCTION2 HPCDPE			4.77e2					1023		1.22e4					0.000
FUNCTION3 OCDPE			1.10e2					651		2.76e3					0.000
FUNCTION4 NCDPE			9.10e2					624		1.26e4					0.000
FUNCTION5 DCDPE			0.00e0					475		0.00e0					0.000

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.17	932.375	0.827	0.031		1.01	0.77	YES	6.7
2	35 Total-tetrafurans	303.9016	23.85	1551.937	0.827	0.052		0.79	0.77	NO	6.6
3	35 Total-tetrafurans	303.9016	23.27	901.054	0.827	0.030		0.68	0.77	NO	3.7
4	35 Total-tetrafurans	303.9016	23.03	931.998	0.827	0.031		0.83	0.77	NO	3.9
5	35 Total-tetrafurans	303.9016	26.77	1731.804	0.827	0.058		0.61	0.77	YES	8.6
6	1 2378-TCDF	303.9016	26.53	2216.415	0.827	0.074	0.059	0.52	0.77	YES	8.3
7	35 Total-tetrafurans	303.9016	26.36	759.891	0.827	0.025		1.43	0.77	YES	6.3
8	35 Total-tetrafurans	303.9016	25.44	1669.264	0.827	0.056		0.55	0.77	YES	8.0
9	35 Total-tetrafurans	303.9016	25.27	1295.654	0.827	0.043		0.38	0.77	YES	5.0

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.95	1204.053		0.046		1.32	1.55	NO	10.0

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	29.54	1506.504	0.837	0.062		0.99	1.55	YES	9.6

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	38 Total-hexafurans	373.8208	34.16	322.981	0.977	0.015		0.49	1.24	YES	3.8
2	7 123789-HxCDF	373.8208	37.95	444.861	0.956	0.022	0.021	1.03	1.24	YES	5.1
3	4 123478-HxCDF	373.8208	35.74	423.014	0.973	0.020	0.020	1.19	1.24	NO	5.9
4	38 Total-hexafurans	373.8208	35.08	556.160	0.977	0.025		0.52	1.24	YES	4.5
5	38 Total-hexafurans	373.8208	34.21	444.223	0.977	0.020		1.97	1.24	YES	5.2

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.87	1643.524	1.142	0.089		1.08	1.05	NO	26.8
2	8 1234678-HpCDF	407.7818	40.06	1326.986	1.153	0.064	0.064	1.14	1.05	NO	16.9

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.17	932.375	0.827	0.031		1.01	0.77	YES	6.7
2	35 Total-tetrafurans	303.9016	23.85	1551.937	0.827	0.052		0.79	0.77	NO	6.6
3	35 Total-tetrafurans	303.9016	23.27	901.054	0.827	0.030		0.68	0.77	NO	3.7
4	35 Total-tetrafurans	303.9016	23.03	931.998	0.827	0.031		0.83	0.77	NO	3.9
5	40 Total-Furans	303.9016	21.95	403.259	0.971	0.011		0.42	0.77	YES	2.3
6	35 Total-tetrafurans	303.9016	26.77	1731.804	0.827	0.058		0.61	0.77	YES	8.6
7	1 2378-TCDF	303.9016	26.53	2216.415	0.827	0.074	0.059	0.52	0.77	YES	8.3
8	35 Total-tetrafurans	303.9016	26.36	759.891	0.827	0.025		1.43	0.77	YES	6.3
9	35 Total-tetrafurans	303.9016	25.44	1669.264	0.827	0.056		0.55	0.77	YES	8.0
10	35 Total-tetrafurans	303.9016	25.27	1295.654	0.827	0.043		0.38	0.77	YES	5.0
11	37 Total-pentafurans	339.8597	29.54	1506.504	0.837	0.062		0.99	1.55	YES	9.6
12	38 Total-hexafurans	373.8208	34.16	322.981	0.977	0.015		0.49	1.24	YES	3.8
13	7 123789-HxCDF	373.8208	37.95	444.861	0.956	0.022	0.021	1.03	1.24	YES	5.1
14	4 123478-HxCDF	373.8208	35.74	423.014	0.973	0.020	0.020	1.19	1.24	NO	5.9
15	38 Total-hexafurans	373.8208	35.08	556.160	0.977	0.025		0.52	1.24	YES	4.5
16	38 Total-hexafurans	373.8208	34.21	444.223	0.977	0.020		1.97	1.24	YES	5.2
17	39 Total-heptafurans	407.7818	40.87	1643.524	1.142	0.089		1.08	1.05	NO	26.8
18	8 1234678-HpCDF	407.7818	40.06	1326.986	1.153	0.064	0.064	1.14	1.05	NO	16.9
19	10 OCDF	441.7428	48.35	2117.521	1.023	0.160	0.160	0.76	0.89	NO	12.9
20	36 Total-penta1	339.8597	27.95	1204.053		0.046		1.32	1.55	NO	10.0

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	24.58	1190.135	1.023	0.053		1.41	0.77	YES	9.0
2	41 Total-tetradioxins	319.8965	24.30	3252.699	1.023	0.145		0.91	0.77	YES	14.4
3	41 Total-tetradioxins	319.8965	26.81	1079.021	1.023	0.048		0.69	0.77	NO	4.6

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	30.69	834.361	0.939	0.049		6.17	1.55	YES	7.7
2	42 Total-pentadioxins	355.8546	29.56	307.083	0.939	0.018		1.65	1.55	NO	3.2

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	36.01	729.102	0.919	0.041		0.73	1.24	YES	6.8
2	43 Total-hexadioxins	389.8157	35.98	1180.405	0.919	0.066		0.97	1.24	YES	6.9
3	43 Total-hexadioxins	389.8157	35.86	638.456	0.919	0.035		2.29	1.24	YES	5.6
4	43 Total-hexadioxins	389.8157	35.51	845.905	0.919	0.047		1.26	1.24	NO	6.4
5	43 Total-hexadioxins	389.8157	34.80	2105.864	0.919	0.117		1.34	1.24	NO	13.2
6	14 123678-HxCDD	389.8157	37.10	596.504	0.894	0.033	0.028	1.62	1.24	YES	4.3

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.94	5855.230	0.964	0.412	0.412	1.06	1.05	NO	46.9
2	44 Total-heptadioxins	423.7766	40.63	29039.715	0.964	2.043		1.10	1.05	NO	261.9

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	24.58	1190.135	1.023	0.053		1.41	0.77	YES	9.0
2	41 Total-tetradoxins	319.8965	24.30	3252.699	1.023	0.145		0.91	0.77	YES	14.4
3	41 Total-tetradoxins	319.8965	26.81	1079.021	1.023	0.048		0.69	0.77	NO	4.6
4	42 Total-pentadoxins	355.8546	30.69	834.361	0.939	0.049		6.17	1.55	YES	7.7
5	42 Total-pentadoxins	355.8546	29.56	307.083	0.939	0.018		1.65	1.55	NO	3.2
6	43 Total-hexadoxins	389.8157	36.01	729.102	0.919	0.041		0.73	1.24	YES	6.8
7	43 Total-hexadoxins	389.8157	35.98	1180.405	0.919	0.066		0.97	1.24	YES	6.9
8	43 Total-hexadoxins	389.8157	35.86	638.456	0.919	0.035		2.29	1.24	YES	5.6
9	43 Total-hexadoxins	389.8157	35.51	845.905	0.919	0.047		1.26	1.24	NO	6.4
10	43 Total-hexadoxins	389.8157	34.80	2105.864	0.919	0.117		1.34	1.24	NO	13.2
11	14 123678-HxCDD	389.8157	37.10	596.504	0.894	0.033	0.028	1.62	1.24	YES	4.3
12	17 OCDD	457.7377	48.06	59380.420	0.969	4.749	4.749	0.89	0.89	NO	394.1
13	16 1234678-HpCDD	423.7766	41.94	5855.230	0.964	0.412	0.412	1.06	1.05	NO	46.9
14	44 Total-heptadoxins	423.7766	40.63	29039.715	0.964	2.043		1.10	1.05	NO	261.9

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ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.17	932.375	0.827	0.031		1.01	0.77	YES	6.7
2	35 Total-tetrafurans	303.9016	23.85	1551.937	0.827	0.052		0.79	0.77	NO	6.6
3	35 Total-tetrafurans	303.9016	23.27	901.054	0.827	0.030		0.68	0.77	NO	3.7
4	35 Total-tetrafurans	303.9016	23.03	931.998	0.827	0.031		0.83	0.77	NO	3.9
5	40 Total-Furans	303.9016	21.95	403.259	0.971	0.011		0.42	0.77	YES	2.3
6	35 Total-tetrafurans	303.9016	26.77	1731.804	0.827	0.058		0.61	0.77	YES	8.6
7	1 2378-TCDF	303.9016	26.53	2216.415	0.827	0.074	0.059	0.52	0.77	YES	8.3
8	35 Total-tetrafurans	303.9016	26.36	759.891	0.827	0.025		1.43	0.77	YES	6.3
9	35 Total-tetrafurans	303.9016	25.44	1669.264	0.827	0.056		0.55	0.77	YES	8.0
10	35 Total-tetrafurans	303.9016	25.27	1295.654	0.827	0.043		0.38	0.77	YES	5.0
11	37 Total-pentafurans	339.8597	29.54	1506.504	0.837	0.062		0.99	1.55	YES	9.6
12	38 Total-hexafurans	373.8208	34.16	322.981	0.977	0.015		0.49	1.24	YES	3.8
13	7 123789-HxCDF	373.8208	37.95	444.861	0.956	0.022	0.021	1.03	1.24	YES	5.1
14	4 123478-HxCDF	373.8208	35.74	423.014	0.973	0.020	0.020	1.19	1.24	NO	5.9
15	38 Total-hexafurans	373.8208	35.08	556.160	0.977	0.025		0.52	1.24	YES	4.5
16	38 Total-hexafurans	373.8208	34.21	444.223	0.977	0.020		1.97	1.24	YES	5.2
17	39 Total-heptafurans	407.7818	40.87	1643.524	1.142	0.089		1.08	1.05	NO	26.8
18	8 1234678-HpCDF	407.7818	40.06	1326.986	1.153	0.064	0.064	1.14	1.05	NO	16.9
19	10 OCDF	441.7428	48.35	2117.521	1.023	0.160	0.160	0.76	0.89	NO	12.9
20	36 Total-penta1	339.8597	27.95	1204.053		0.046		1.32	1.55	NO	10.0
21	41 Total-tetradioxins	319.8965	24.58	1190.135	1.023	0.053		1.41	0.77	YES	9.0
22	41 Total-tetradioxins	319.8965	24.30	3252.699	1.023	0.145		0.91	0.77	YES	14.4
23	41 Total-tetradioxins	319.8965	26.81	1079.021	1.023	0.048		0.69	0.77	NO	4.6
24	42 Total-pentadioxins	355.8546	30.69	834.361	0.939	0.049		6.17	1.55	YES	7.7
25	42 Total-pentadioxins	355.8546	29.56	307.083	0.939	0.018		1.65	1.55	NO	3.2
26	43 Total-hexadioxins	389.8157	36.01	729.102	0.919	0.041		0.73	1.24	YES	6.8
27	43 Total-hexadioxins	389.8157	35.98	1180.405	0.919	0.066		0.97	1.24	YES	6.9
28	43 Total-hexadioxins	389.8157	35.86	638.456	0.919	0.035		2.29	1.24	YES	5.6
29	43 Total-hexadioxins	389.8157	35.51	845.905	0.919	0.047		1.26	1.24	NO	6.4
30	43 Total-hexadioxins	389.8157	34.80	2105.864	0.919	0.117		1.34	1.24	NO	13.2
31	14 123678-HxCDD	389.8157	37.10	596.504	0.894	0.033	0.028	1.62	1.24	YES	4.3
32	17 OCDD	457.7377	48.06	59380.420	0.969	4.749	4.749	0.89	0.89	NO	394.1
33	16 1234678-HpCDD	423.7766	41.94	5855.230	0.964	0.412	0.412	1.06	1.05	NO	46.9
34	44 Total-heptadioxins	423.7766	40.63	29039.715	0.964	2.043		1.10	1.05	NO	261.9

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

PFK1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	21.97	0.000							60.6
2	48 FUNCTION1 PFK	330.9792	21.75	0.000							64.9
3	48 FUNCTION1 PFK	330.9792	21.69	0.000							64.3
4	48 FUNCTION1 PFK	330.9792	21.43	0.000							70.7
5	48 FUNCTION1 PFK	330.9792	21.40	0.000							70.8
6	48 FUNCTION1 PFK	330.9792	21.13	0.000							74.5
7	48 FUNCTION1 PFK	330.9792	28.18	0.000							0.4
8	48 FUNCTION1 PFK	330.9792	27.95	0.000							1.3
9	48 FUNCTION1 PFK	330.9792	27.84	0.000							2.2
10	48 FUNCTION1 PFK	330.9792	27.56	0.000							1.3
11	48 FUNCTION1 PFK	330.9792	25.78	0.000							1.3
12	48 FUNCTION1 PFK	330.9792	24.82	0.000							3.6
13	48 FUNCTION1 PFK	330.9792	24.64	0.000							7.4
14	48 FUNCTION1 PFK	330.9792	24.06	0.000							18.9
15	48 FUNCTION1 PFK	330.9792	23.30	0.000							33.7
16	48 FUNCTION1 PFK	330.9792	23.16	0.000							36.4
17	48 FUNCTION1 PFK	330.9792	23.08	0.000							37.3
18	48 FUNCTION1 PFK	330.9792	22.91	0.000							41.7
19	48 FUNCTION1 PFK	330.9792	22.79	0.000							44.4
20	48 FUNCTION1 PFK	330.9792	22.54	0.000							49.3
21	48 FUNCTION1 PFK	330.9792	22.40	0.000							52.2
22	48 FUNCTION1 PFK	330.9792	22.18	0.000							57.2
23	48 FUNCTION1 PFK	330.9792	28.69	0.000							0.8
24	48 FUNCTION1 PFK	330.9792	28.39	0.000							0.5
25	48 FUNCTION1 PFK	330.9792	28.23	0.000							0.3

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	32.43	0.000		0.000					2.0
2	49 FUNCTION2 PFK	366.9792	32.29	0.000		0.000					1.5
3	49 FUNCTION2 PFK	366.9792	31.87	0.000		0.000					0.6
4	49 FUNCTION2 PFK	366.9792	31.23	0.000		0.000					1.7
5	49 FUNCTION2 PFK	366.9792	30.14	0.000		0.000					1.3
6	49 FUNCTION2 PFK	366.9792	29.03	0.000		0.000					0.6
7	49 FUNCTION2 PFK	366.9792	28.99	0.000		0.000					1.3
8	49 FUNCTION2 PFK	366.9792	28.95	0.000		0.000					1.4

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	37.22	0.000		0.000					6.5
2	50 FUNCTION3 PFK	380.9760	35.58	0.000		0.000					1.7

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
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ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

PFK4

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	44.93	0.000					4.2
2	51 FUNCTION4 PFK	430.9728	44.52	0.000					2.3
3	51 FUNCTION4 PFK	430.9728	44.37	0.000					12.3
4	51 FUNCTION4 PFK	430.9728	42.03	0.000					11.5
5	51 FUNCTION4 PFK	430.9728	41.80	0.000					14.5
6	51 FUNCTION4 PFK	430.9728	41.66	0.000					6.7

PFK5

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	47.71	0.000					38.9
2	52 FUNCTION5 PFK	480.9696	47.56	0.000					36.7
3	52 FUNCTION5 PFK	480.9696	47.26	0.000					27.5
4	52 FUNCTION5 PFK	480.9696	47.01	0.000					20.6
5	52 FUNCTION5 PFK	480.9696	46.03	0.000					3.1
6	52 FUNCTION5 PFK	480.9696	45.85	0.000					10.0
7	52 FUNCTION5 PFK	480.9696	45.59	0.000					20.6
8	52 FUNCTION5 PFK	480.9696	45.52	0.000					23.9
9	52 FUNCTION5 PFK	480.9696	45.07	0.000					42.4
10	52 FUNCTION5 PFK	480.9696	48.91	0.000					10.9

ETHERS1

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.08	0.000	0.000				3.2
2	53 FUNCTION1 HXCD...	375.8364	26.60	0.000	0.000				201.1
3	53 FUNCTION1 HXCD...	375.8364	26.32	0.000	0.000				56.2
4	53 FUNCTION1 HXCD...	375.8364	25.97	0.000	0.000				3.3
5	53 FUNCTION1 HXCD...	375.8364	24.21	0.000	0.000				2.7

ETHERS2

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	23.85	0.000	0.000				2.4
2	54 FUNCTION1 HPCD...	409.7974	23.58	0.000	0.000				2.0
3	54 FUNCTION1 HPCD...	409.7974	23.45	0.000	0.000				2.2
4	54 FUNCTION1 HPCD...	409.7974	22.82	0.000	0.000				37.4
5	54 FUNCTION1 HPCD...	409.7974	22.25	0.000	0.000				2.2
6	54 FUNCTION1 HPCD...	409.7974	21.73	0.000	0.000				3.5
7	54 FUNCTION1 HPCD...	409.7974	21.67	0.000	0.000				3.9
8	54 FUNCTION1 HPCD...	409.7974	21.36	0.000	0.000				4.4
9	54 FUNCTION1 HPCD...	409.7974	28.56	0.000	0.000				1.9
10	54 FUNCTION1 HPCD...	409.7974	28.24	0.000	0.000				3.0
11	54 FUNCTION1 HPCD...	409.7974	27.81	0.000	0.000				1.9
12	54 FUNCTION1 HPCD...	409.7974	27.68	0.000	0.000				1.5
13	54 FUNCTION1 HPCD...	409.7974	26.84	0.000	0.000				2.0
14	54 FUNCTION1 HPCD...	409.7974	25.11	0.000	0.000				2.5
15	54 FUNCTION1 HPCD...	409.7974	25.06	0.000	0.000				1.8
16	54 FUNCTION1 HPCD...	409.7974	24.05	0.000	0.000				1.9

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.97	0.000	0.000					1.5
2	55 FUNCTION2 HPCD...	409.7974	31.80	0.000	0.000					1.8
3	55 FUNCTION2 HPCD...	409.7974	30.31	0.000	0.000					4.6
4	55 FUNCTION2 HPCD...	409.7974	29.96	0.000	0.000					2.0
5	55 FUNCTION2 HPCD...	409.7974	29.00	0.000	0.000					2.0

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	37.82	0.000	0.000					4.2

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	43.45	0.000	0.000					3.3
2	57 FUNCTION4 NCDPE	479.7165	39.61	0.000	0.000					16.8

ETHERS6

	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

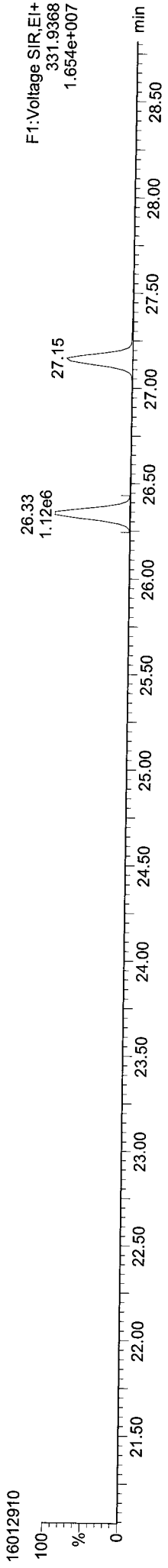
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
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Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

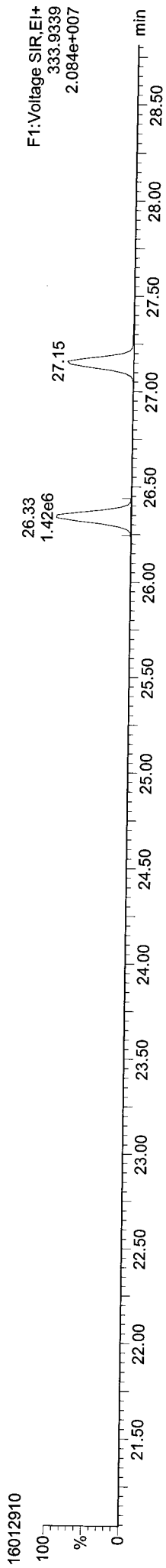
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ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

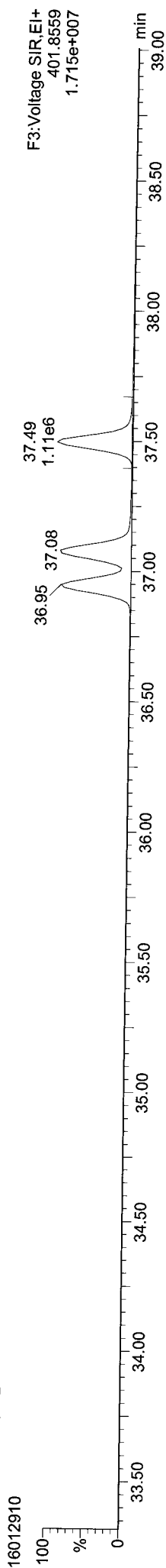
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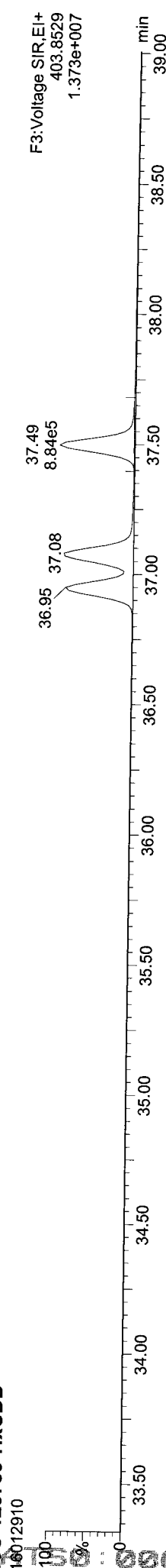
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13C-123789-HxCDD

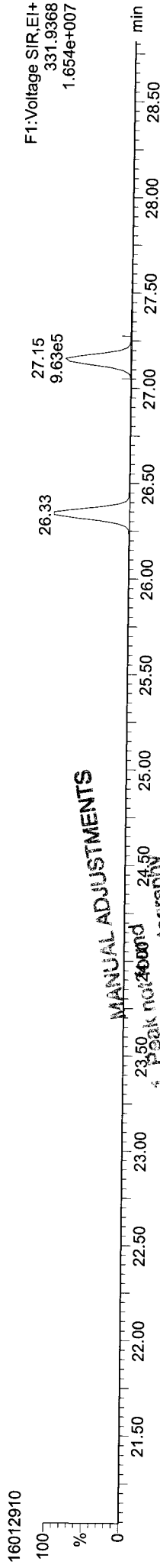


13C-123789-HxCDD



ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

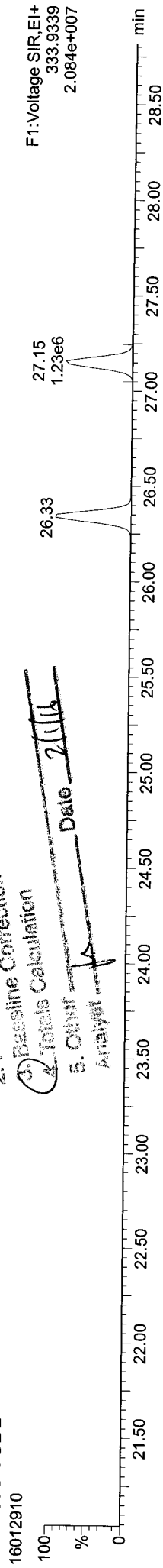
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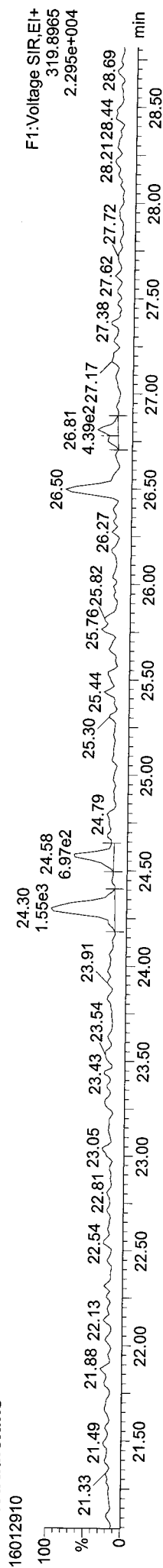
MANUAL ADJUSTMENTS

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2. Poor Chromatography
3. Baseline Correction
4. Total Calculation
5. Output Analyt Date 2/1/16

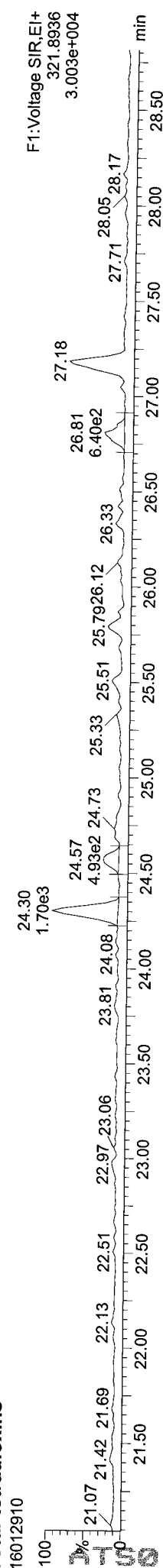
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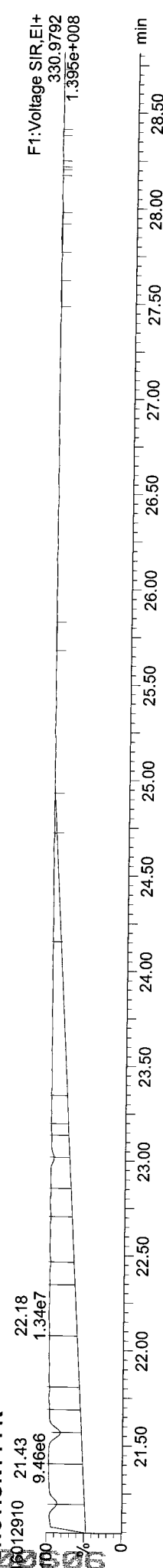
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

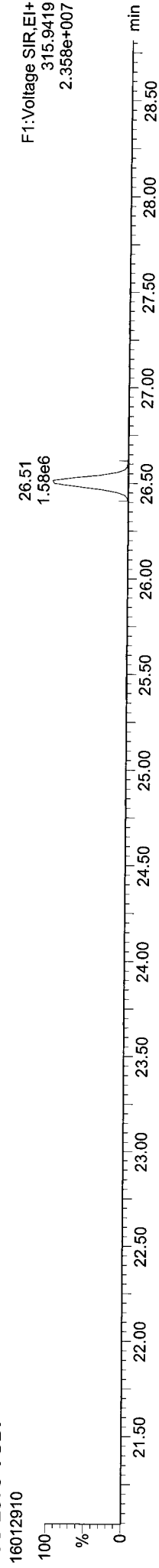


Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

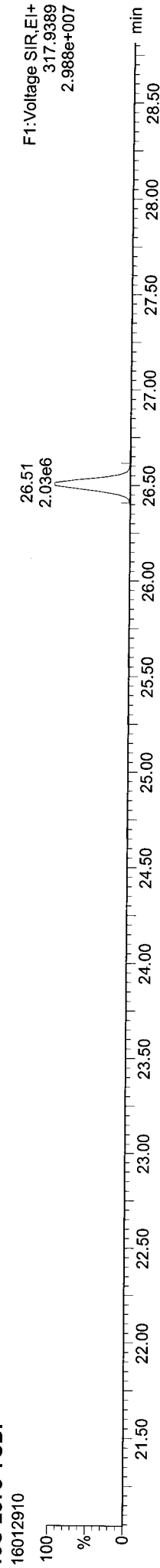
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13C-2378-TCDF



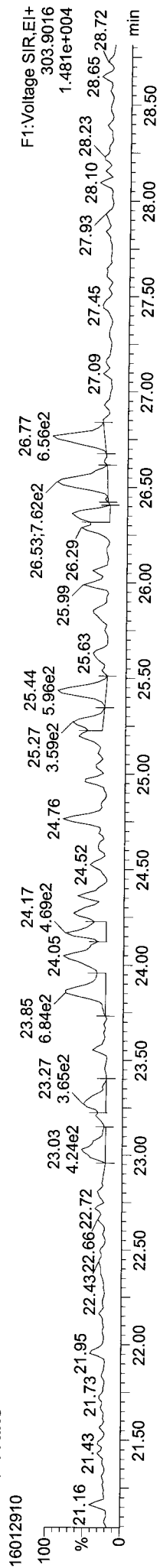
F1: Voltage SIR, EI+
315.9419
2.358e+007

13C-2378-TCDF



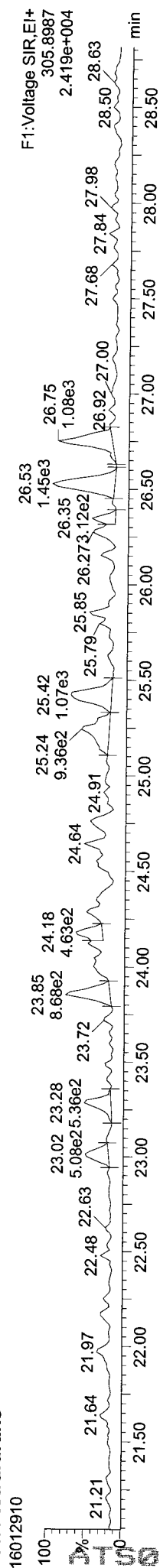
F1: Voltage SIR, EI+
317.9389
2.988e+007

Total-tetrafurans



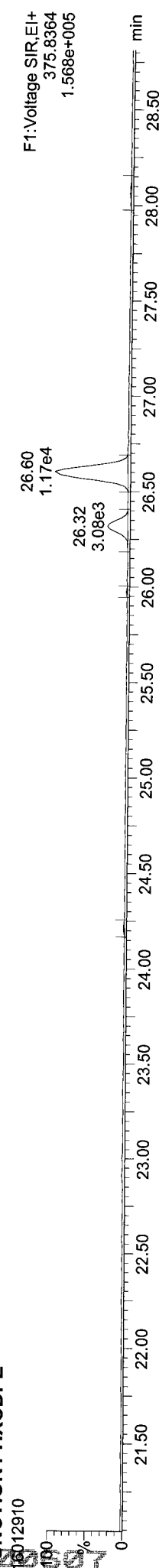
F1: Voltage SIR, EI+
303.9016
1.481e+004

Total-tetrafurans



F1: Voltage SIR, EI+
305.8987
2.419e+004

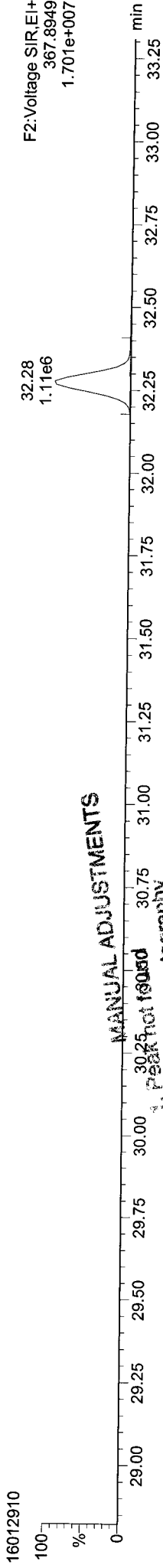
FUNCTION1 HXCDPE



F1: Voltage SIR, EI+
375.8364
1.568e+005

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

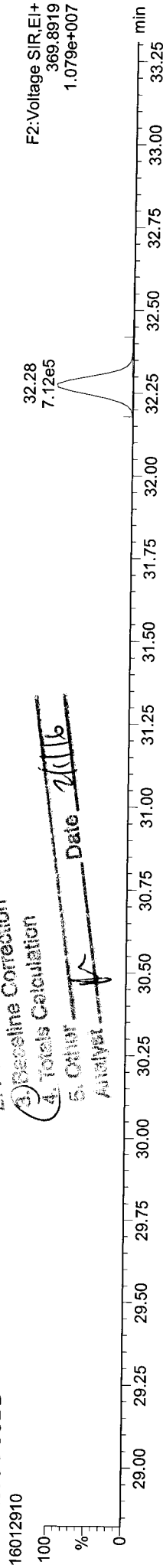
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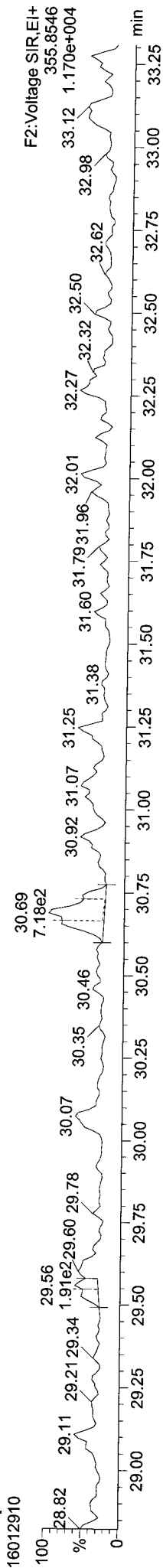
MANUAL ADJUSTMENTS

1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: Date: 2/1/16

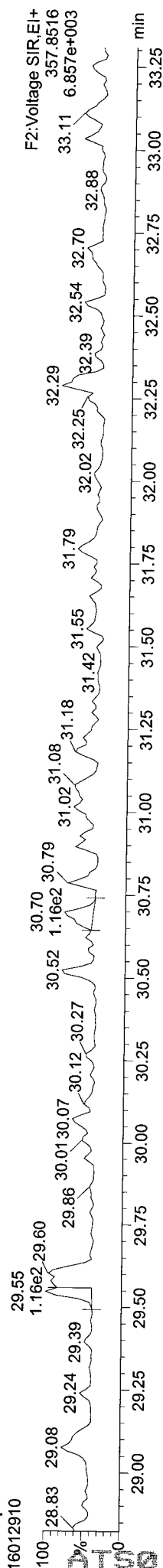
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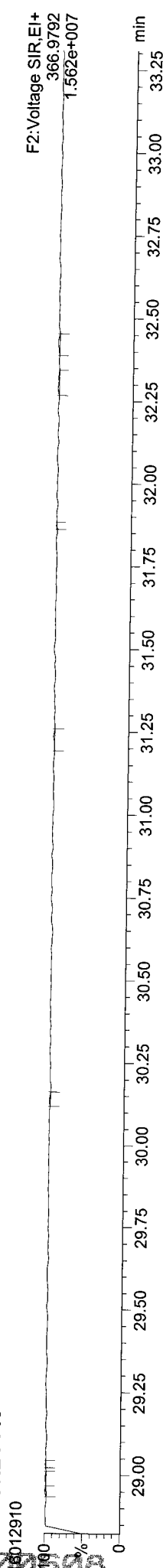
Total-pentadioxins



Total-pentadioxins

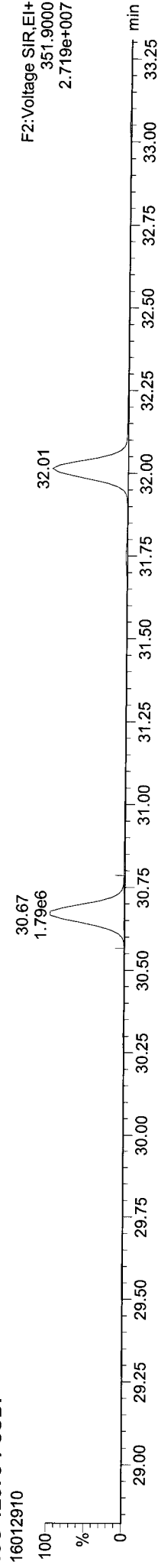


FUNCTION2 PFK

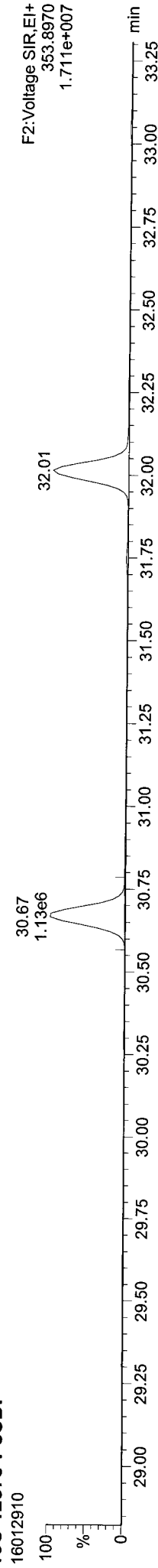


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

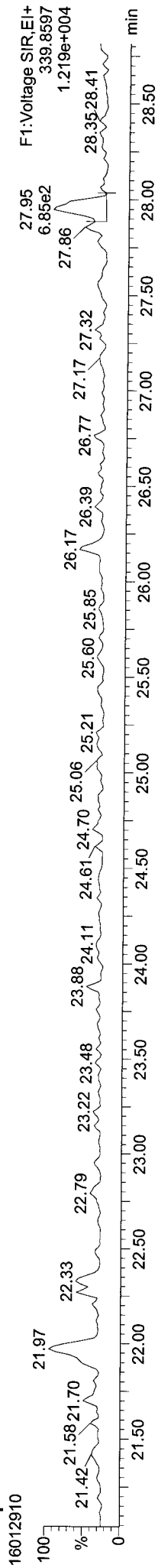
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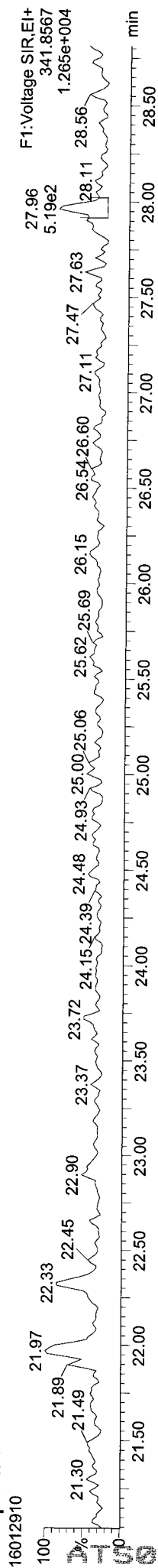
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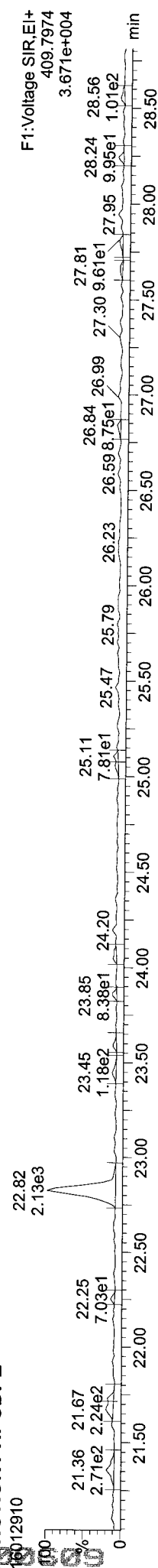
Total-penta1



Total-penta1

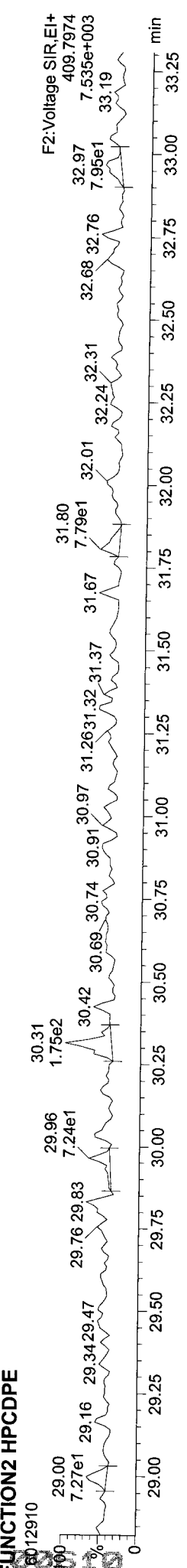
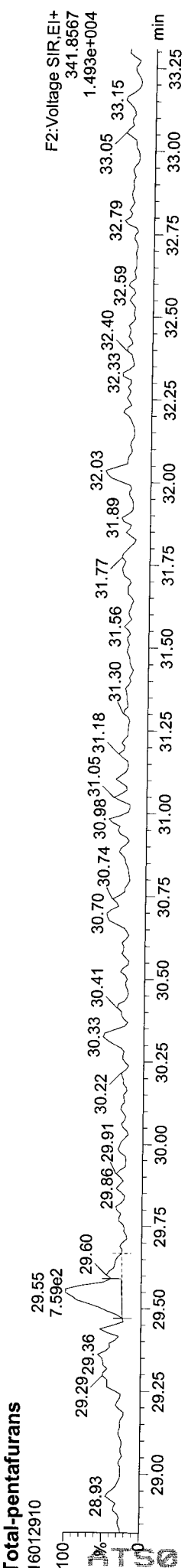
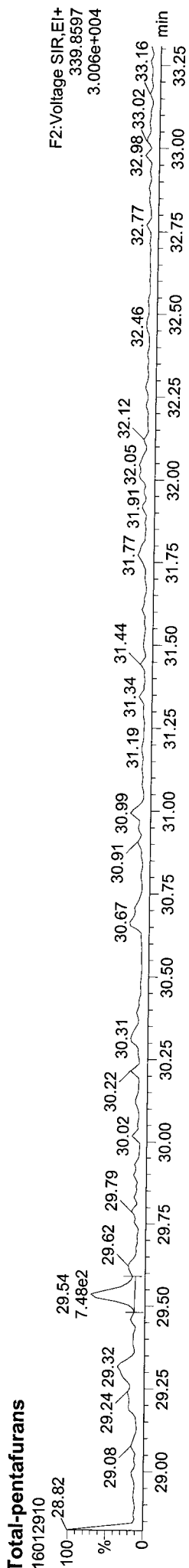
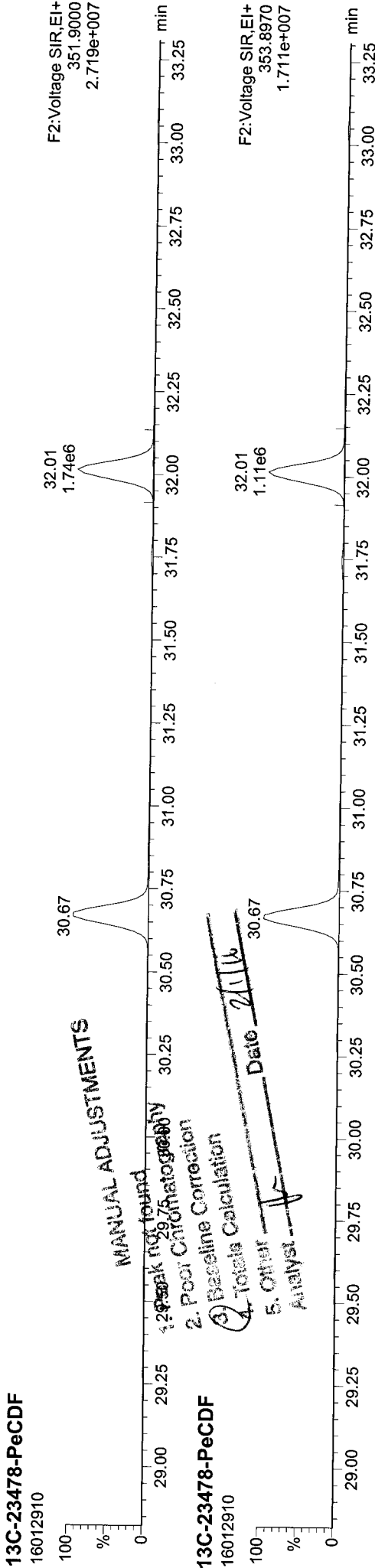


FUNCTION1 HPCDPE



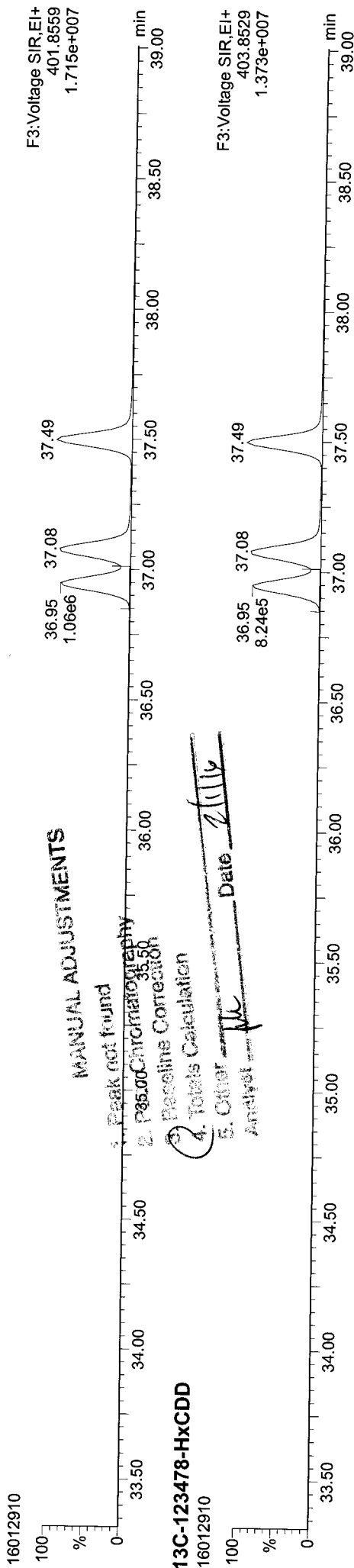
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
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ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

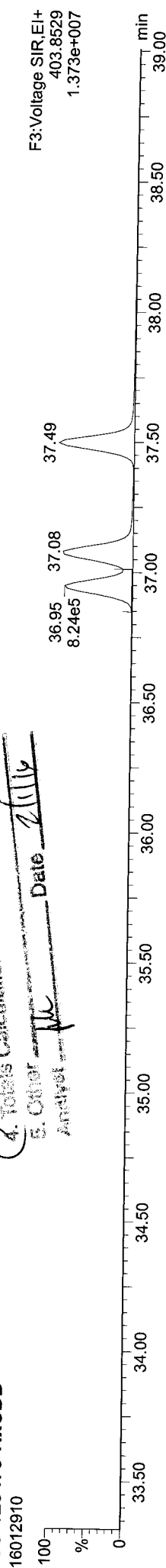


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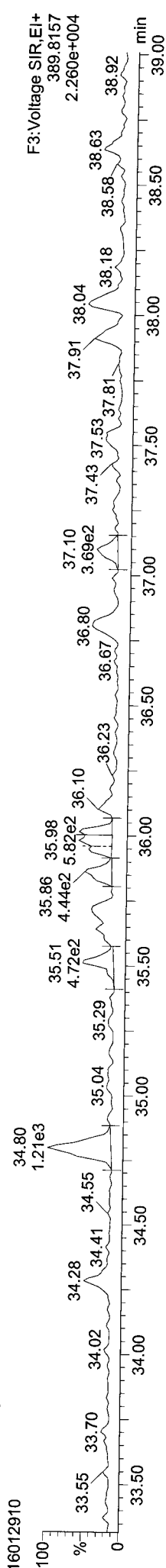
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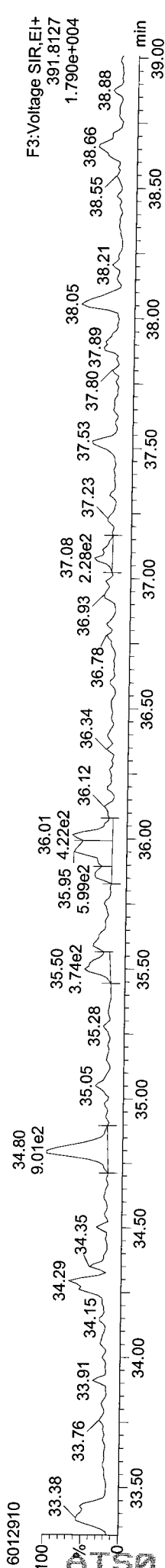
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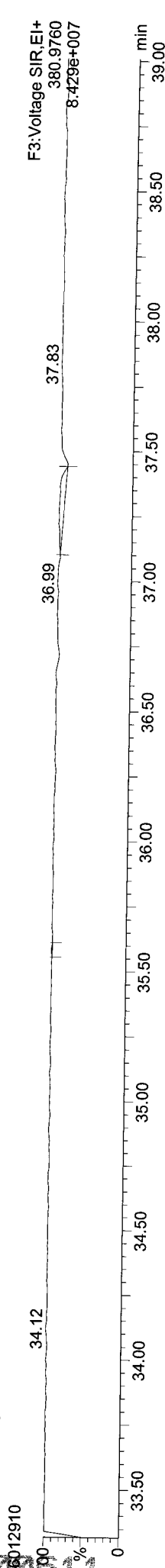
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

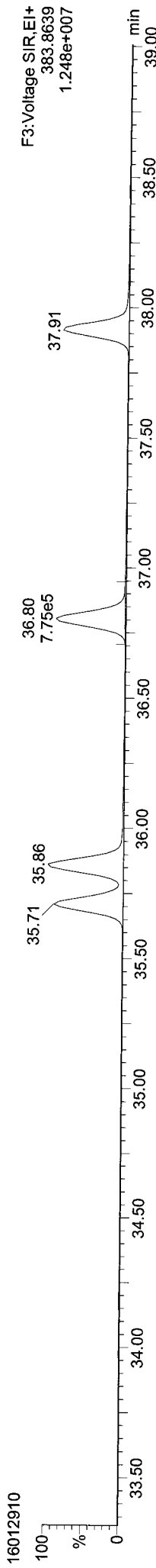


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

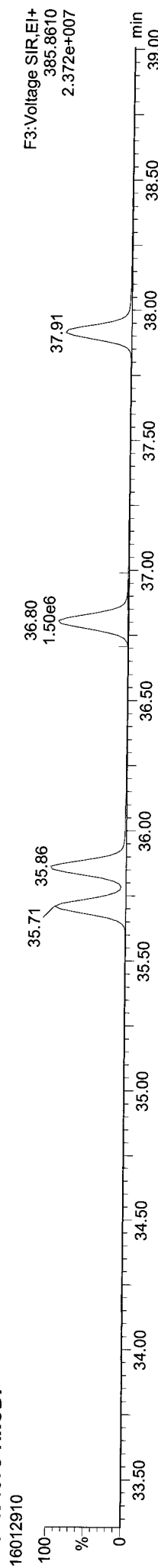
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

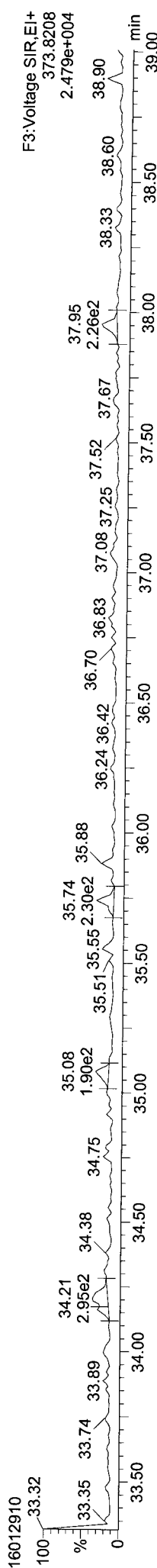
13C-234678-HxCDF



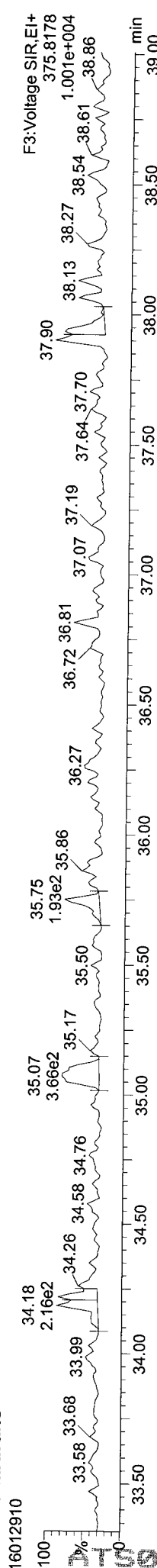
13C-234678-HxCDF



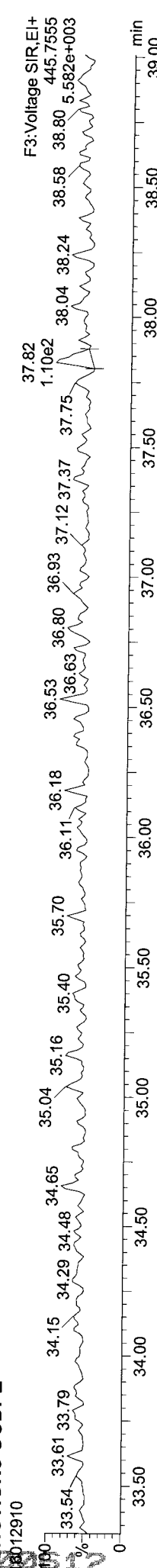
Total-hexafurans



Total-hexafurans

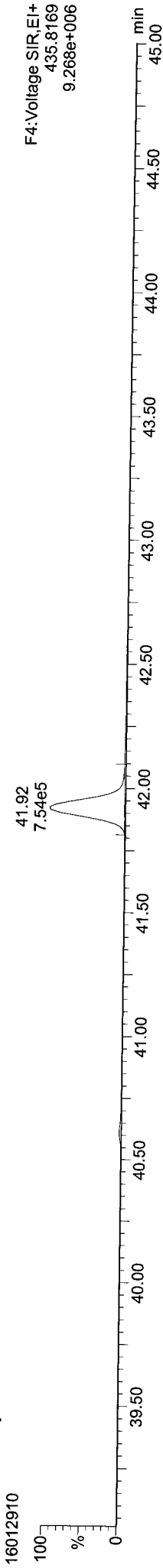


FJUNCTION3 OCDPE

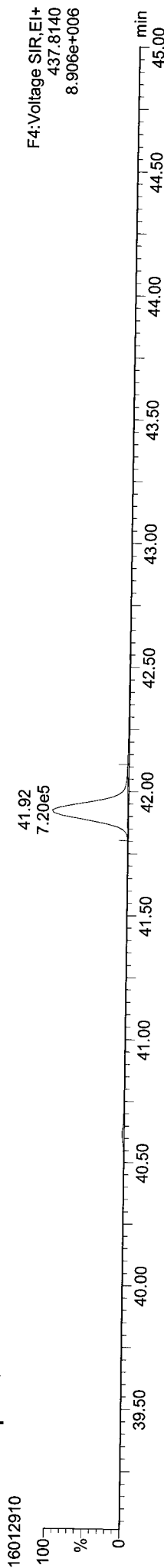


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

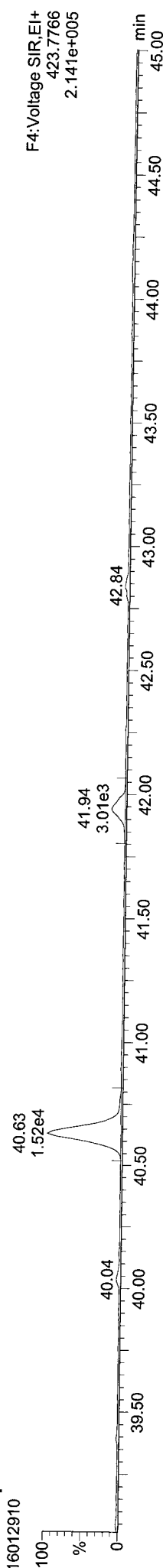
13C-1234678-HpCDD



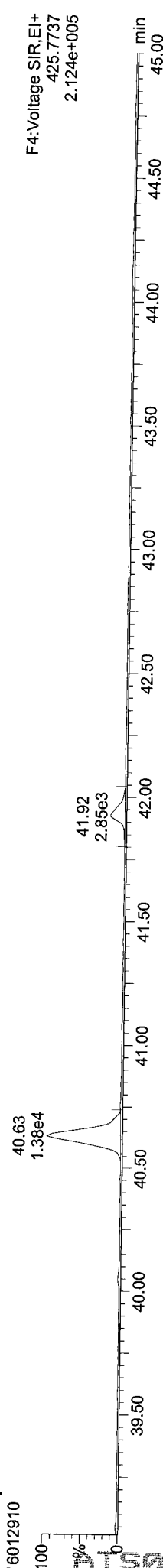
13C-1234678-HpCDD



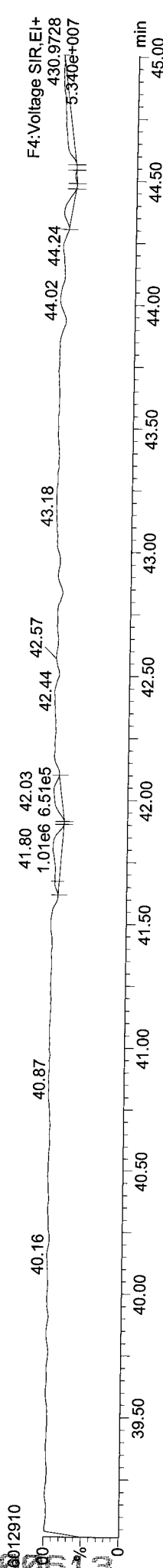
Total-heptadioxins



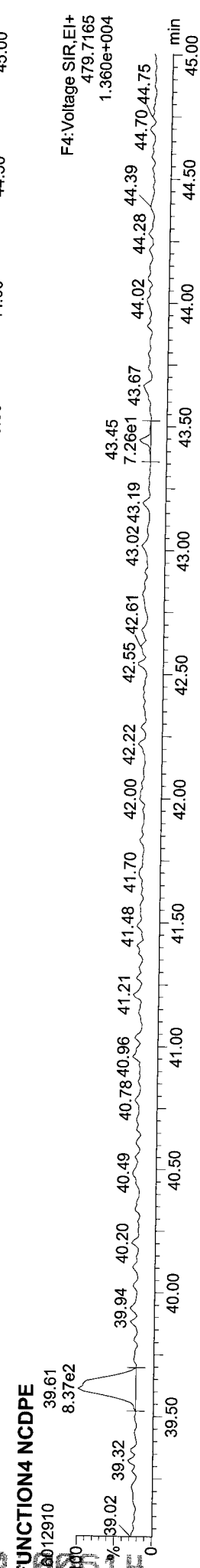
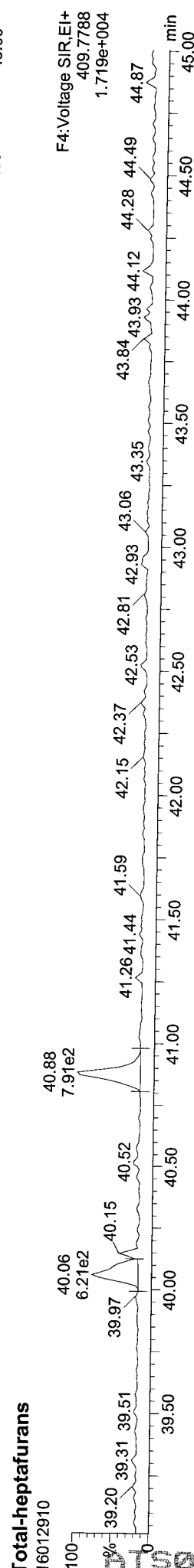
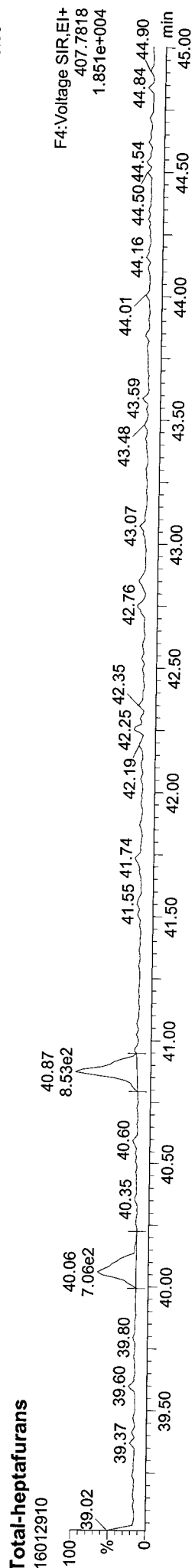
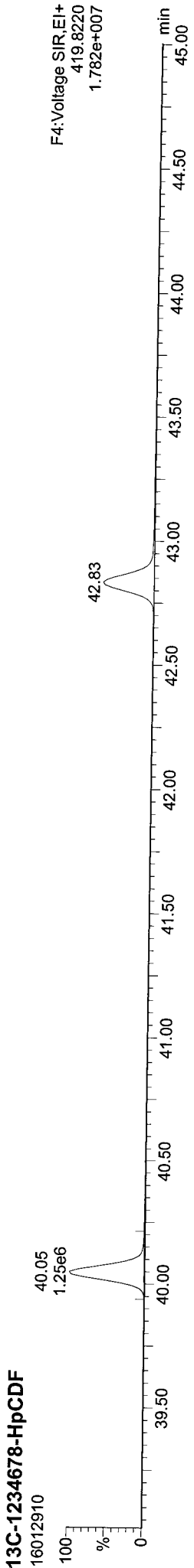
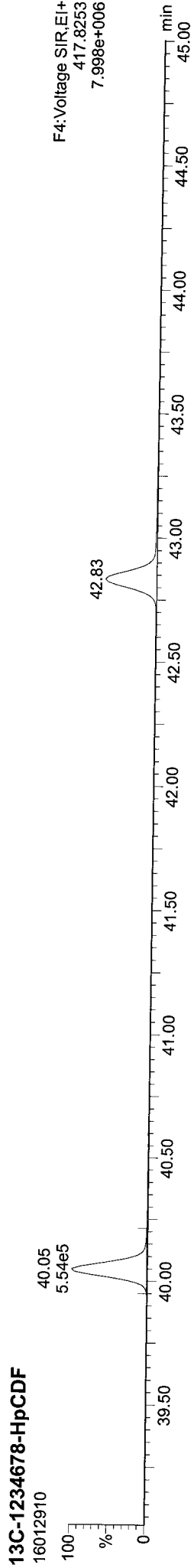
Total-heptadioxins



FUNCTION4 PFK

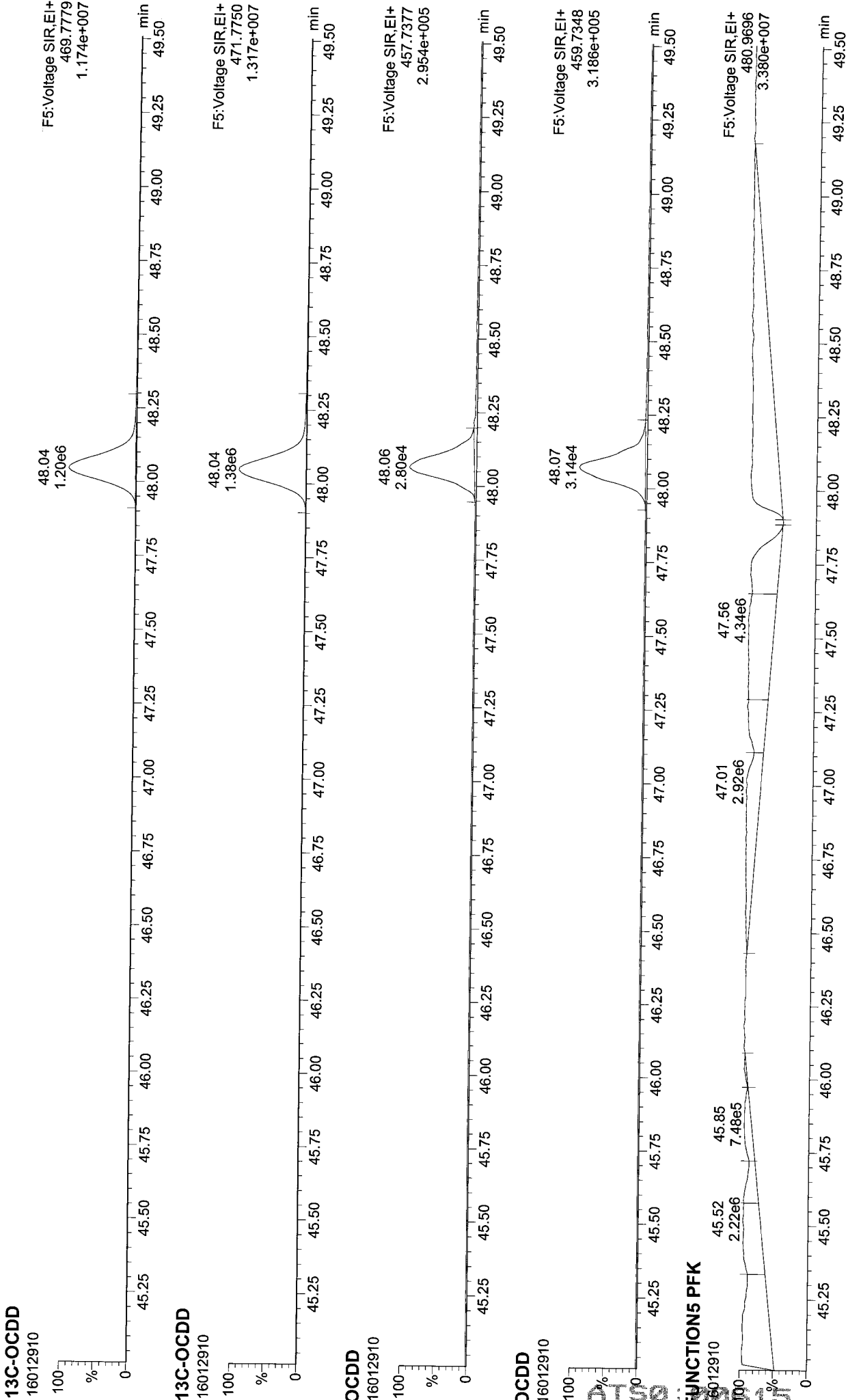


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

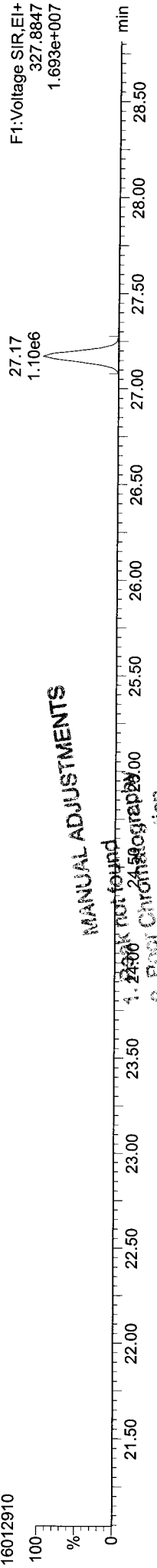
ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk



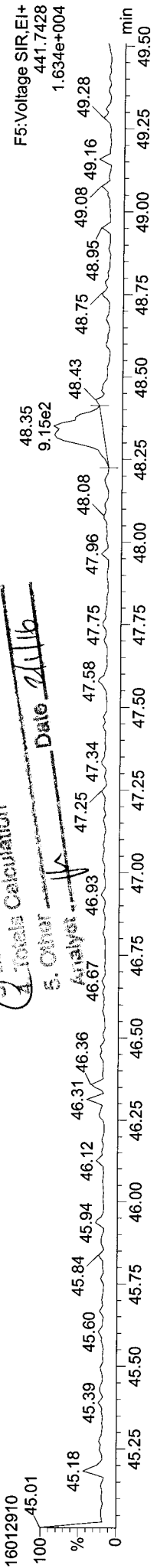
Quantify Sample Report MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

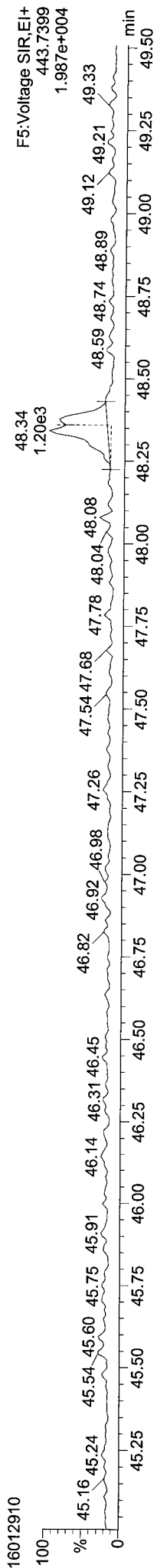
37CL-2378-TCDD



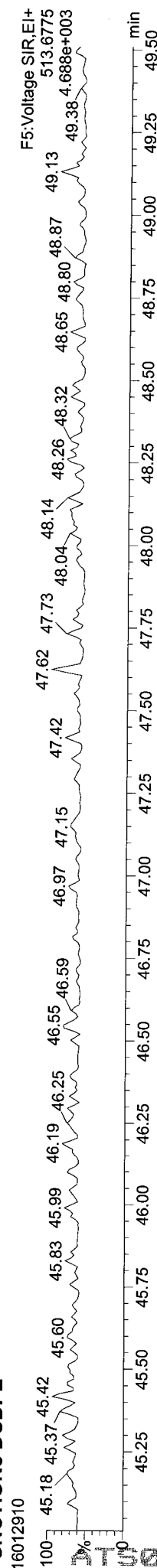
OCDF



OCDF



FUNCTION5 DCDPE



AT50: 00016

**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50E
 Lab.File ID: 16012911
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.024
12378-PeCDD	356/358	0.00			0.032
123478-HxCDD	390/392	0.00			0.029
123678-HxCDD	390/392	37.08	0.0584	0.0530	
123789-HxCDD	390/392	37.47	0.0300	0.0230	
1234678-HpCDD	424/426	41.90	0.805		
OCDD	458/460	48.04	9.79		
2378-TCDF	304/306	26.50	0.0746	0.0520	
12378-PeCDF	340/342	0.00			0.032
23478-PeCDF	340/342	0.00			0.030
123478-HxCDF	374/376	0.00			0.022
234678-HxCDF	374/376	0.00			0.021
123678-HxCDF	374/376	0.00			0.020
123789-HxCDF	374/376	37.90	0.0391		
1234678-HpCDF	408/410	40.06	0.126		
1234789-HpCDF	408/410	42.83	0.0207	0.0190	
OCDF	442/444	48.33	0.385		

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\DiDioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.496	1.001	6.98e2	1.61e3	0.827	0.432	0.770	1558	1641	8.31e3	1.81e4	5.3	YES	0.052	0.075
12378-PeCDF				0.824			1.550	1767	2162						
23478-PeCDF				0.850			1.550	1767	2162						
123478-HxCDF				0.973			1.240	1235	1262						
234678-HxCDF				1.025			1.240	1235	1262						
123678-HxCDF				0.953			1.240	1235	1262						
123789-HxCDF	37.899	1.000	4.91e2	3.54e2	0.956	1.387	1.240	1235	1262	7.15e3	8.07e3	5.8	NO	0.039	0.039
1234678-HpCDF	40.058	1.001	1.42e3	1.43e3	1.153	0.992	1.050	777	572	1.79e4	1.92e4	23.1	NO	0.126	0.126
1234789-HpCDF	42.832	1.001	2.09e2	1.62e2	1.131	1.290	1.050	777	572	4.82e3	2.16e3	6.2	YES	0.019	0.021
OCDF	48.331	1.007	2.52e3	2.91e3	1.023	0.867	0.890	881	1001	2.53e4	3.01e4	28.7	NO	0.385	0.385
2378-TCDD				1.023			0.770	1581	1076						
12378-PeCDD				0.939			1.550	2052	896						
123478-HxCDD				0.963			1.240	1451	1309						
123678-HxCDD	37.077	1.001	6.60e2	4.54e2	0.894	1.453	1.240	1451	1309	9.76e3	9.25e3	6.7	YES	0.053	0.058
123789-HxCDD	37.472	1.011	2.34e2	3.27e2	0.900	0.717	1.240	1451	1309	6.16e3	5.28e3	4.2	YES	0.023	0.030
1234678-HpCDD	41.900	1.000	6.26e3	6.54e3	0.964	0.957	1.050	1129	1123	7.23e4	8.60e4	64.1	NO	0.805	0.805
OCDD	48.043	1.001	6.11e4	6.99e4	0.969	0.875	0.890	804	848	5.97e5	7.18e5	743.1	NO	9.795	9.795
13C-2378-TCDF	26.481	1.006	1.64e6	2.11e6	1.502	0.779	0.770	5679	3775	2.43e7	3.12e7	4288.0	NO	86.044	86.044
13C-12378-PeCDF	30.654	1.165	1.87e6	1.19e6	1.215	1.575	1.550	3182	3577	2.74e7	1.74e7	8612.1	NO	86.711	86.711
13C-23478-PeCDF	31.991	1.216	1.85e6	1.18e6	1.181	1.576	1.550	3182	3577	2.79e7	1.78e7	8760.0	NO	88.330	88.330
13C-123478-HxCDF	35.685	0.952	7.96e5	1.56e6	1.246	0.511	0.510	2717	4239	1.18e7	2.28e7	4327.5	NO	80.881	80.881
13C-123678-HxCDF	35.839	0.956	8.98e5	1.75e6	1.375	0.512	0.510	2717	4239	1.32e7	2.52e7	4844.3	NO	82.480	82.480
13C-234678-HxCDF	36.781	0.982	8.31e5	1.58e6	1.186	0.525	0.510	2717	4239	1.21e7	2.32e7	4470.1	NO	87.138	87.138
13C-123789-HxCDF	37.899	1.011	7.66e5	1.50e6	1.135	0.512	0.510	2717	4239	1.17e7	2.25e7	4294.0	NO	85.283	85.283
13C-1234678-HpCDF	40.025	1.068	6.06e5	1.35e6	1.020	0.449	0.440	2143	2367	8.77e6	1.91e7	4092.7	NO	82.002	82.002
13C-1234789-HpCDF	42.810	1.142	4.92e5	1.09e6	0.824	0.452	0.440	2143	2367	5.91e6	1.32e7	2758.6	NO	82.082	82.082
13C-1234-TCDD	26.317	0.000	1.28e6	1.62e6	1.000	0.794	0.770	4372	2105	1.89e7	2.38e7	4322.6	NO	100.000	100.000
13C-2378-TCDD	27.124	1.031	1.01e6	1.29e6	0.983	0.781	0.770	4372	2105	1.45e7	1.87e7	3318.8	NO	80.732	80.732
13C-12378-PeCDD	32.254	1.226	1.19e6	7.55e5	0.787	1.582	1.550	2292	1527	1.79e7	1.13e7	7789.3	NO	85.297	85.297
13C-123478-HxCDD	36.924	0.985	1.13e6	8.90e5	1.031	1.275	1.240	3609	2644	1.69e7	1.31e7	4670.0	NO	84.014	84.014
13C-123678-HxCDD	37.055	0.989	1.17e6	9.61e5	1.137	1.222	1.240	3609	2644	1.72e7	1.36e7	4753.9	NO	80.400	80.400
13C-1234678-HpCDD	41.900	1.118	8.42e5	8.06e5	0.892	1.044	1.050	3123	2574	1.05e7	1.00e7	3362.1	NO	79.087	79.087
13C-OCDD	48.016	1.281	1.30e6	1.46e6	0.852	0.891	0.890	2587	1740	1.29e7	1.45e7	5001.2	NO	138.671	138.671

Quantify Sample Summary Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.472	0.000	1.31e6	1.03e6	1.000	1.268	1.240	3609	2644	1.99e7	1.58e7	5509.7	NO		100.000
Total-tetrafurans			8.88e3		0.827			1558		1.06e5					0.669
Total-penta1			1.01e3					760		1.59e4					0.062
Total-pentafurans			1.64e3		0.837			1767		3.05e4					0.115
Total-hexafurans			2.01e3		0.977			1235		2.99e4					0.152
Total-heptafurans			3.36e3		1.142			777		4.80e4					0.332
Total-Furans			1.96e4		0.971			1558		2.58e5					1.726
Total-tetraioxins			5.24e3		1.023			1581		6.85e4					0.450
Total-pentadioxins			1.90e3		0.939			2052		2.29e4					0.154
Total-hexadioxins			6.67e3		0.919			1451		1.03e5					0.628
Total-heptadioxins			5.98e4		0.964			1129		7.92e5					7.262
Total-Dioxins			1.35e5		0.950			1581		1.58e6					18.288
Total-TEQ			1.54e5					1581		1.84e6					20.014
37CL-2378-TCDD	27.153	1.032	1.23e6		1.091			1814		1.77e7		9735.8			38.683
FUNCTION1 PFK			4.04e7					817539		8.01e7					0.000
FUNCTION2 PFK			1.71e5					174478		4.11e6					0.000
FUNCTION3 PFK			3.06e6					658037		1.12e7					0.000
FUNCTION4 PFK			4.04e6					421105		3.71e7					0.000
FUNCTION5 PFK			5.57e6					335125		6.43e6					0.000
FUNCTION1 HXCDPE			1.87e4					740		2.50e5					0.000
FUNCTION1 HPCDPE			3.16e3					783		4.81e4					0.000
FUNCTION2 HPCDPE			2.27e2					781		5.64e3					0.000
FUNCTION3 OCDPE			4.20e2					925		1.22e4					0.000
FUNCTION4 NCDPE			1.11e3					839		1.88e4					0.000
FUNCTION5 DCDPE			0.00e0					513		0.00e0					0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.75	1203.988	0.827	0.039		0.99	0.77	YES	5.1
2	35 Total-tetrafurans	303.9016	24.49	1080.262	0.827	0.035		0.84	0.77	NO	4.4
3	35 Total-tetrafurans	303.9016	24.33	639.343	0.827	0.021		0.89	0.77	YES	3.0
4	35 Total-tetrafurans	303.9016	24.27	1589.605	0.827	0.051		0.36	0.77	YES	5.0
5	35 Total-tetrafurans	303.9016	24.15	2067.021	0.827	0.067		2.25	0.77	YES	6.2
6	35 Total-tetrafurans	303.9016	23.84	1952.210	0.827	0.063		0.73	0.77	NO	7.2
7	35 Total-tetrafurans	303.9016	23.00	909.227	0.827	0.029		0.78	0.77	NO	3.8
8	35 Total-tetrafurans	303.9016	26.72	1690.436	0.827	0.055		0.62	0.77	YES	5.9
9	1 2378-TCDF	303.9016	26.50	2312.251	0.827	0.075	0.052	0.43	0.77	YES	5.3
10	35 Total-tetrafurans	303.9016	26.27	1609.987	0.827	0.052		0.73	0.77	NO	3.7
11	35 Total-tetrafurans	303.9016	25.58	862.905	0.827	0.028		0.72	0.77	NO	3.4
12	35 Total-tetrafurans	303.9016	25.41	1986.563	0.827	0.064		0.77	0.77	NO	6.9
13	35 Total-tetrafurans	303.9016	25.15	2014.763	0.827	0.065		0.72	0.77	NO	4.1
14	35 Total-tetrafurans	303.9016	25.09	836.373	0.827	0.027		0.65	0.77	YES	3.9

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.93	1725.938		0.062		1.40	1.55	NO	20.8

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	29.51	1770.716	0.837	0.070		1.39	1.55	NO	9.9
2	37 Total-pentafurans	339.8597	29.27	1168.971	0.837	0.046		1.10	1.55	YES	7.4

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 1234789-HxCDF	373.8208	37.90	845.757	0.956	0.039	0.039	1.39	1.24	NO	5.8
2	38 Total-hexafurans	373.8208	35.05	1486.011	0.977	0.063		1.26	1.24	NO	10.3
3	38 Total-hexafurans	373.8208	34.18	1185.767	0.977	0.050		1.40	1.24	NO	8.1

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	42.83	370.530	1.131	0.021	0.019	1.29	1.05	YES	6.2
2	39 Total-heptafurans	407.7818	40.86	3736.893	1.142	0.185		0.86	1.05	YES	32.6
3	8 1234678-HpCDF	407.7818	40.06	2847.665	1.153	0.126	0.126	0.99	1.05	NO	23.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.75	1203.988	0.827	0.039		0.99	0.77	YES	5.1
2	35 Total-tetrafurans	303.9016	24.49	1080.262	0.827	0.035		0.84	0.77	NO	4.4
3	35 Total-tetrafurans	303.9016	24.33	639.343	0.827	0.021		0.89	0.77	YES	3.0
4	35 Total-tetrafurans	303.9016	24.27	1589.605	0.827	0.051		0.36	0.77	YES	5.0
5	35 Total-tetrafurans	303.9016	24.15	2067.021	0.827	0.067		2.25	0.77	YES	6.2
6	35 Total-tetrafurans	303.9016	23.84	1952.210	0.827	0.063		0.73	0.77	NO	7.2
7	35 Total-tetrafurans	303.9016	23.00	909.227	0.827	0.029		0.78	0.77	NO	3.8
8	40 Total-Furans	303.9016	21.92	378.001	0.971	0.010		0.64	0.77	YES	1.3
9	35 Total-tetrafurans	303.9016	26.72	1690.436	0.827	0.055		0.62	0.77	YES	5.9
10	1 2378-TCDF	303.9016	26.50	2312.251	0.827	0.075	0.052	0.43	0.77	YES	5.3
11	35 Total-tetrafurans	303.9016	26.27	1609.987	0.827	0.052		0.73	0.77	NO	3.7
12	35 Total-tetrafurans	303.9016	25.58	862.905	0.827	0.028		0.72	0.77	NO	3.4
13	35 Total-tetrafurans	303.9016	25.41	1986.563	0.827	0.064		0.77	0.77	NO	6.9
14	35 Total-tetrafurans	303.9016	25.15	2014.763	0.827	0.065		0.72	0.77	NO	4.1
15	35 Total-tetrafurans	303.9016	25.09	836.373	0.827	0.027		0.65	0.77	YES	3.9
16	37 Total-pentafurans	339.8597	29.51	1770.716	0.837	0.070		1.39	1.55	NO	9.9
17	37 Total-pentafurans	339.8597	29.27	1168.971	0.837	0.046		1.10	1.55	YES	7.4
18	7 123789-HxCDF	373.8208	37.90	845.757	0.956	0.039	0.039	1.39	1.24	NO	5.8
19	38 Total-hexafurans	373.8208	35.05	1486.011	0.977	0.063		1.26	1.24	NO	10.3
20	38 Total-hexafurans	373.8208	34.18	1185.767	0.977	0.050		1.40	1.24	NO	8.1
21	9 1234789-HpCDF	407.7818	42.83	370.530	1.131	0.021	0.019	1.29	1.05	YES	6.2
22	39 Total-heptafurans	407.7818	40.86	3736.893	1.142	0.185		0.86	1.05	YES	32.6
23	8 1234678-HpCDF	407.7818	40.06	2847.665	1.153	0.126	0.126	0.99	1.05	NO	23.1
24	10 OCDF	441.7428	48.33	5430.846	1.023	0.385	0.385	0.87	0.89	NO	28.7
25	36 Total-penta1	339.8597	27.93	1725.938		0.062		1.40	1.55	NO	20.8

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	24.29	5705.190	1.023	0.242		0.75	0.77	NO	21.3
2	41 Total-tetradiioxins	319.8965	26.77	1507.330	1.023	0.064		1.14	0.77	YES	6.3
3	41 Total-tetradiioxins	319.8965	26.50	953.801	1.023	0.040		3.82	0.77	YES	6.2
4	41 Total-tetradiioxins	319.8965	24.55	2432.265	1.023	0.103		1.02	0.77	YES	9.5

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadiioxins	355.8546	30.69	1542.308	0.939	0.084		1.77	1.55	NO	5.8
2	42 Total-pentadiioxins	355.8546	29.57	1268.991	0.939	0.069		2.63	1.55	YES	5.3

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	15 123789-HxCDD	389.8157	37.47	561.235	0.900	0.030	0.023	0.72	1.24	YES	4.2
2	14 123678-HxCDD	389.8157	37.08	1114.357	0.894	0.058	0.053	1.45	1.24	YES	6.7
3	43 Total-hexadiioxins	389.8157	35.98	3414.932	0.919	0.179		1.24	1.24	NO	15.1
4	43 Total-hexadiioxins	389.8157	35.60	1012.130	0.919	0.053		1.93	1.24	YES	8.9
5	43 Total-hexadiioxins	389.8157	35.50	1549.633	0.919	0.081		1.44	1.24	YES	11.8
6	43 Total-hexadiioxins	389.8157	34.78	4337.748	0.919	0.227		1.13	1.24	NO	24.3

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	44 Total-heptadioxins	423.7766	40.61	102423.754	0.964	6.445		1.09	1.05	NO	634.4
2	16 1234678-HpCDD	423.7766	41.90	12797.102	0.964	0.805	0.805	0.96	1.05	NO	64.1
3	44 Total-heptadioxins	423.7766	41.18	187.849	0.964	0.012		0.90	1.05	NO	3.4

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	24.29	5705.190	1.023	0.242		0.75	0.77	NO	21.3
2	41 Total-tetradioxins	319.8965	26.77	1507.330	1.023	0.064		1.14	0.77	YES	6.3
3	41 Total-tetradioxins	319.8965	26.50	953.801	1.023	0.040		3.82	0.77	YES	6.2
4	41 Total-tetradioxins	319.8965	24.55	2432.265	1.023	0.103		1.02	0.77	YES	9.5
5	42 Total-pentadioxins	355.8546	30.69	1542.308	0.939	0.084		1.77	1.55	NO	5.8
6	42 Total-pentadioxins	355.8546	29.57	1268.991	0.939	0.069		2.63	1.55	YES	5.3
7	15 123789-HxCDD	389.8157	37.47	561.235	0.900	0.030	0.023	0.72	1.24	YES	4.2
8	14 123678-HxCDD	389.8157	37.08	1114.357	0.894	0.058	0.053	1.45	1.24	YES	6.7
9	43 Total-hexadioxins	389.8157	35.98	3414.932	0.919	0.179		1.24	1.24	NO	15.1
10	43 Total-hexadioxins	389.8157	35.60	1012.130	0.919	0.053		1.93	1.24	YES	8.9
11	43 Total-hexadioxins	389.8157	35.50	1549.633	0.919	0.081		1.44	1.24	YES	11.8
12	43 Total-hexadioxins	389.8157	34.78	4337.748	0.919	0.227		1.13	1.24	NO	24.3
13	44 Total-heptadioxins	423.7766	40.61	102423.754	0.964	6.445		1.09	1.05	NO	634.4
14	16 1234678-HpCDD	423.7766	41.90	12797.102	0.964	0.805	0.805	0.96	1.05	NO	64.1
15	44 Total-heptadioxins	423.7766	41.18	187.849	0.964	0.012		0.90	1.05	NO	3.4
16	17 OCDD	457.7377	48.04	130954.199	0.969	9.795	9.795	0.87	0.89	NO	743.1

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.75	1203.988	0.827	0.039		0.99	0.77	YES	5.1
2	35 Total-tetrafurans	303.9016	24.49	1080.262	0.827	0.035		0.84	0.77	NO	4.4
3	35 Total-tetrafurans	303.9016	24.33	639.343	0.827	0.021		0.89	0.77	YES	3.0
4	35 Total-tetrafurans	303.9016	24.27	1589.605	0.827	0.051		0.36	0.77	YES	5.0
5	35 Total-tetrafurans	303.9016	24.15	2067.021	0.827	0.067		2.25	0.77	YES	6.2
6	35 Total-tetrafurans	303.9016	23.84	1952.210	0.827	0.063		0.73	0.77	NO	7.2
7	35 Total-tetrafurans	303.9016	23.00	909.227	0.827	0.029		0.78	0.77	NO	3.8
8	40 Total-Furans	303.9016	21.92	378.001	0.971	0.010		0.64	0.77	YES	1.3
9	35 Total-tetrafurans	303.9016	26.72	1690.436	0.827	0.055		0.62	0.77	YES	5.9
10	1 2378-TCDF	303.9016	26.50	2312.251	0.827	0.075	0.052	0.43	0.77	YES	5.3
11	35 Total-tetrafurans	303.9016	26.27	1609.987	0.827	0.052		0.73	0.77	NO	3.7
12	35 Total-tetrafurans	303.9016	25.58	862.905	0.827	0.028		0.72	0.77	NO	3.4
13	35 Total-tetrafurans	303.9016	25.41	1986.563	0.827	0.064		0.77	0.77	NO	6.9
14	35 Total-tetrafurans	303.9016	25.15	2014.763	0.827	0.065		0.72	0.77	NO	4.1
15	35 Total-tetrafurans	303.9016	25.09	836.373	0.827	0.027		0.65	0.77	YES	3.9
16	37 Total-pentafurans	339.8597	29.51	1770.716	0.837	0.070		1.39	1.55	NO	9.9
17	37 Total-pentafurans	339.8597	29.27	1168.971	0.837	0.046		1.10	1.55	YES	7.4
18	7 123789-HxCDF	373.8208	37.90	845.757	0.956	0.039	0.039	1.39	1.24	NO	5.8
19	38 Total-hexafurans	373.8208	35.05	1486.011	0.977	0.063		1.26	1.24	NO	10.3
20	38 Total-hexafurans	373.8208	34.18	1185.767	0.977	0.050		1.40	1.24	NO	8.1
21	9 1234789-HpCDF	407.7818	42.83	370.530	1.131	0.021	0.019	1.29	1.05	YES	6.2
22	39 Total-heptafurans	407.7818	40.86	3736.893	1.142	0.185		0.86	1.05	YES	32.6
23	8 1234678-HpCDF	407.7818	40.06	2847.665	1.153	0.126	0.126	0.99	1.05	NO	23.1
24	10 OCDF	441.7428	48.33	5430.846	1.023	0.385	0.385	0.87	0.89	NO	28.7
25	36 Total-penta1	339.8597	27.93	1725.938		0.062		1.40	1.55	NO	20.8
26	41 Total-tetradioxins	319.8965	24.29	5705.190	1.023	0.242		0.75	0.77	NO	21.3
27	41 Total-tetradioxins	319.8965	26.77	1507.330	1.023	0.064		1.14	0.77	YES	6.3
28	41 Total-tetradioxins	319.8965	26.50	953.801	1.023	0.040		3.82	0.77	YES	6.2
29	41 Total-tetradioxins	319.8965	24.55	2432.265	1.023	0.103		1.02	0.77	YES	9.5
30	42 Total-pentadioxins	355.8546	30.69	1542.308	0.939	0.084		1.77	1.55	NO	5.8
31	42 Total-pentadioxins	355.8546	29.57	1268.991	0.939	0.069		2.63	1.55	YES	5.3
32	15 123789-HxCDD	389.8157	37.47	561.235	0.900	0.030	0.023	0.72	1.24	YES	4.2
33	14 123678-HxCDD	389.8157	37.08	1114.357	0.894	0.058	0.053	1.45	1.24	YES	6.7
34	43 Total-hexadioxins	389.8157	35.98	3414.932	0.919	0.179		1.24	1.24	NO	15.1
35	43 Total-hexadioxins	389.8157	35.60	1012.130	0.919	0.053		1.93	1.24	YES	8.9
36	43 Total-hexadioxins	389.8157	35.50	1549.633	0.919	0.081		1.44	1.24	YES	11.8
37	43 Total-hexadioxins	389.8157	34.78	4337.748	0.919	0.227		1.13	1.24	NO	24.3
38	44 Total-heptadioxins	423.7766	40.61	102423.754	0.964	6.445		1.09	1.05	NO	634.4
39	16 1234678-HpCDD	423.7766	41.90	12797.102	0.964	0.805	0.805	0.96	1.05	NO	64.1
40	44 Total-heptadioxins	423.7766	41.18	187.849	0.964	0.012		0.90	1.05	NO	3.4
41	17 OCDD	457.7377	48.04	130954.199	0.969	9.795	9.795	0.87	0.89	NO	743.1

PFK1

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	23.61	0.000							3.6
2	48 FUNCTION1 PFK	330.9792	22.88	0.000							12.6
3	48 FUNCTION1 PFK	330.9792	22.15	0.000							23.1
4	48 FUNCTION1 PFK	330.9792	21.45	0.000							58.7

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	29.99	0.000		0.000					2.2
2	49 FUNCTION2 PFK	366.9792	29.51	0.000		0.000					0.5
3	49 FUNCTION2 PFK	366.9792	29.31	0.000		0.000					1.4
4	49 FUNCTION2 PFK	366.9792	29.25	0.000		0.000					0.4
5	49 FUNCTION2 PFK	366.9792	29.10	0.000		0.000					0.5
6	49 FUNCTION2 PFK	366.9792	33.02	0.000		0.000					0.9
7	49 FUNCTION2 PFK	366.9792	32.56	0.000		0.000					0.5
8	49 FUNCTION2 PFK	366.9792	32.09	0.000		0.000					1.5
9	49 FUNCTION2 PFK	366.9792	31.48	0.000		0.000					1.2
10	49 FUNCTION2 PFK	366.9792	31.31	0.000		0.000					1.4
11	49 FUNCTION2 PFK	366.9792	31.19	0.000		0.000					0.5
12	49 FUNCTION2 PFK	366.9792	31.09	0.000		0.000					1.2
13	49 FUNCTION2 PFK	366.9792	31.05	0.000		0.000					1.5
14	49 FUNCTION2 PFK	366.9792	30.32	0.000		0.000					0.7
15	49 FUNCTION2 PFK	366.9792	30.26	0.000		0.000					2.3
16	49 FUNCTION2 PFK	366.9792	30.18	0.000		0.000					3.2
17	49 FUNCTION2 PFK	366.9792	30.08	0.000		0.000					3.3
18	49 FUNCTION2 PFK	366.9792	30.01	0.000		0.000					0.3

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	37.66	0.000		0.000					5.0
2	50 FUNCTION3 PFK	380.9760	37.25	0.000		0.000					11.9

PFK4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	44.71	0.000							2.2
2	51 FUNCTION4 PFK	430.9728	44.49	0.000							2.6
3	51 FUNCTION4 PFK	430.9728	44.35	0.000							14.8
4	51 FUNCTION4 PFK	430.9728	44.21	0.000							11.8
5	51 FUNCTION4 PFK	430.9728	44.14	0.000							8.1
6	51 FUNCTION4 PFK	430.9728	44.00	0.000							10.3
7	51 FUNCTION4 PFK	430.9728	42.75	0.000							3.0
8	51 FUNCTION4 PFK	430.9728	42.54	0.000							6.1
9	51 FUNCTION4 PFK	430.9728	42.41	0.000							7.9
10	51 FUNCTION4 PFK	430.9728	42.15	0.000							9.7
11	51 FUNCTION4 PFK	430.9728	42.01	0.000							11.8

PFK5

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	48.38	0.000							1.8
2	52 FUNCTION5 PFK	480.9696	47.44	0.000							17.4

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

ETHERS1

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.03	0.000	0.000					4.0
2	53 FUNCTION1 HXCD...	375.8364	26.57	0.000	0.000					271.3
3	53 FUNCTION1 HXCD...	375.8364	26.30	0.000	0.000					63.2

ETHERS2

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.51	0.000	0.000					2.3
2	54 FUNCTION1 HPCD...	409.7974	24.75	0.000	0.000					2.7
3	54 FUNCTION1 HPCD...	409.7974	22.81	0.000	0.000					50.5
4	54 FUNCTION1 HPCD...	409.7974	21.67	0.000	0.000					5.8

ETHERS3

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	31.30	0.000	0.000					2.7
2	55 FUNCTION2 HPCD...	409.7974	29.56	0.000	0.000					2.8
3	55 FUNCTION2 HPCD...	409.7974	29.00	0.000	0.000					1.7

ETHERS4

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	38.45	0.000	0.000					3.2
2	56 FUNCTION3 OCDPE	445.7555	38.40	0.000	0.000					1.9
3	56 FUNCTION3 OCDPE	445.7555	33.55	0.000	0.000					2.2
4	56 FUNCTION3 OCDPE	445.7555	38.92	0.000	0.000					4.0
5	56 FUNCTION3 OCDPE	445.7555	38.52	0.000	0.000					1.9

ETHERS5

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.61	0.000	0.000					22.4

ETHERS6

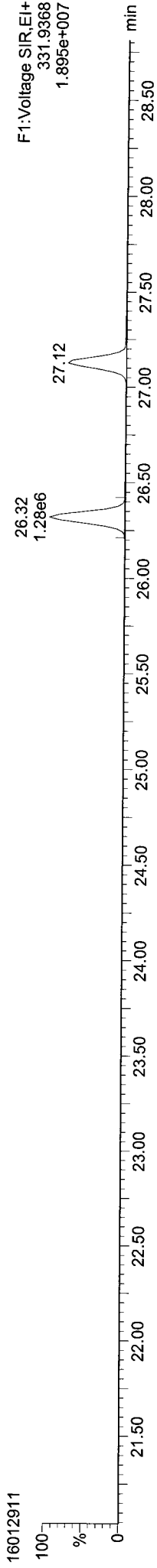
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1										

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

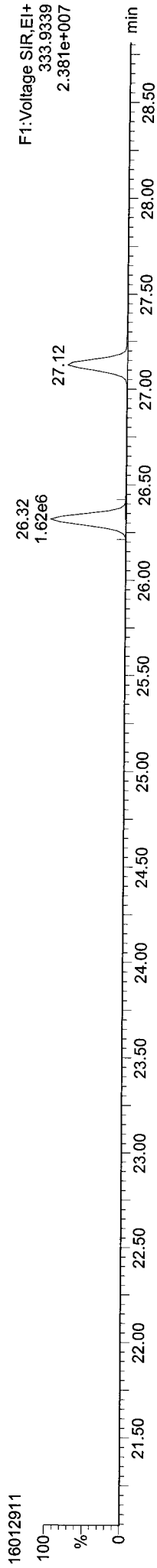
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ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

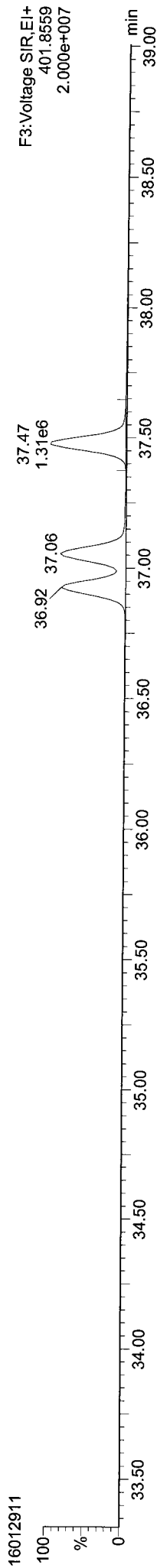
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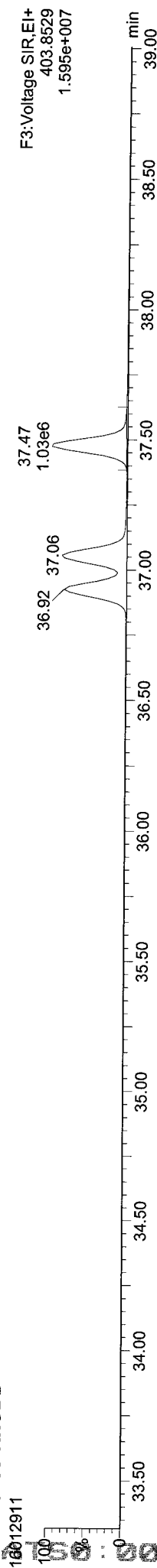
13C-1234-TCDD



13C-123789-HxCDD

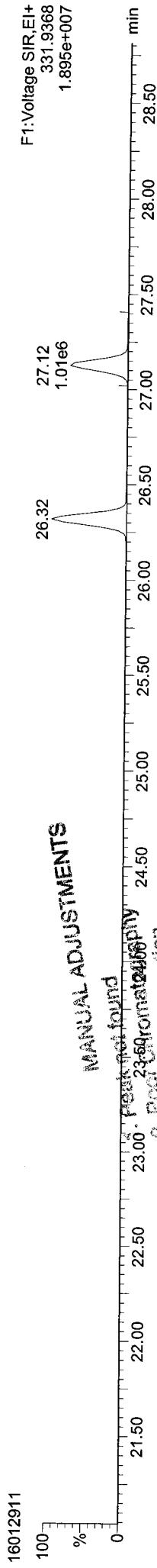


13C-123789-HxCDD



ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

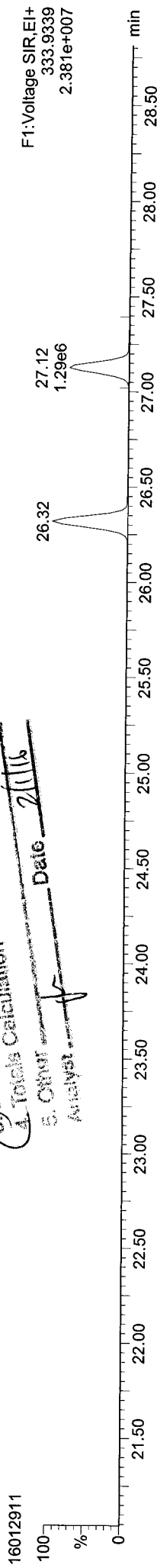
13C-2378-TCDD



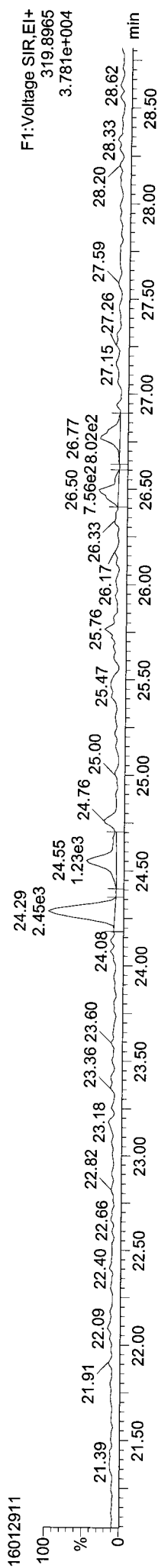
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatogram
3. Baseline Correction
4. Total Calculation
5. Chromatogram Date 2/1/16

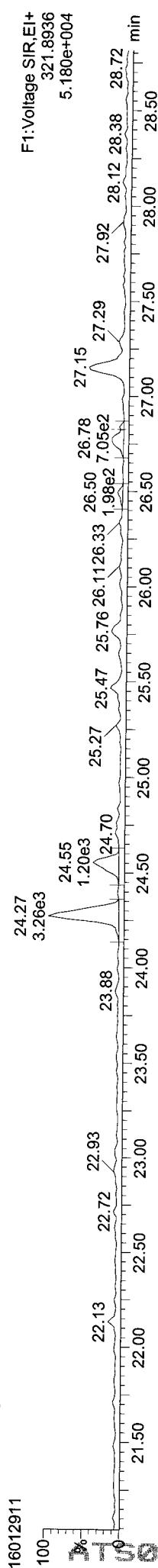
13C-2378-TCDD



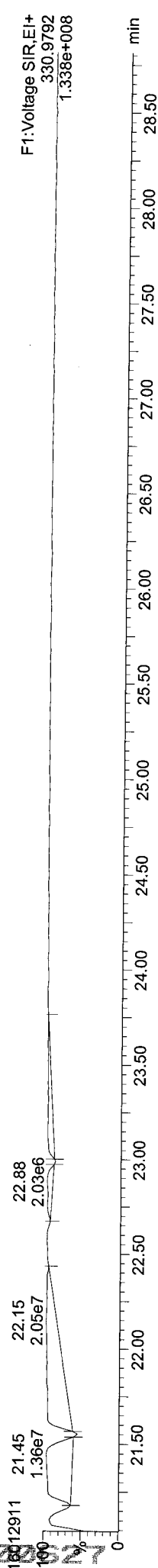
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PROV160129DATA.qld

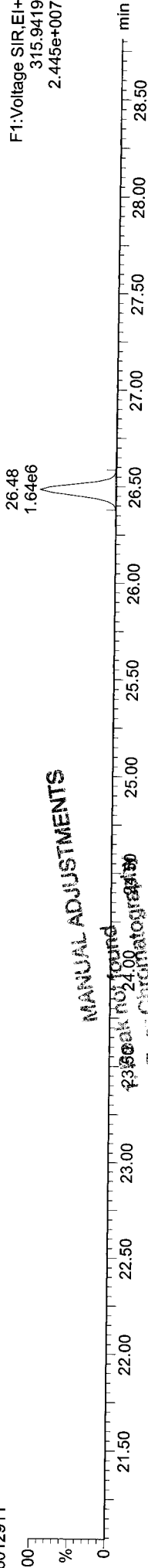
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

16012911



MANUAL ADJUSTMENTS

1. Peak not found

2. Poor Chromatogram

3. Baseline Correction

4. Total Calculation

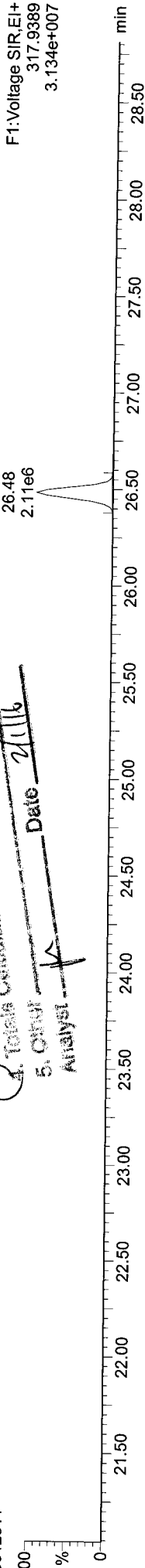
5. OTHER

Analyst

Date 2/1/16

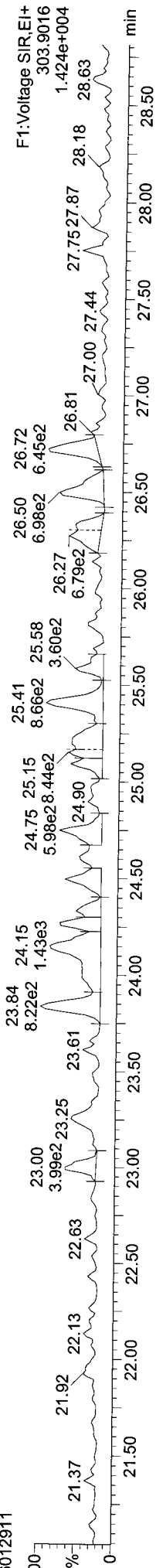
13C-2378-TCDF

16012911



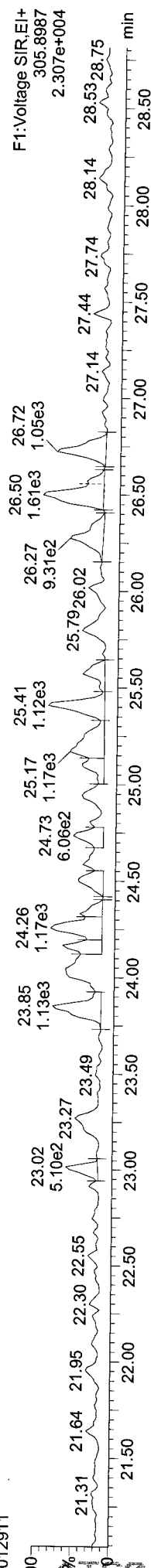
Total-tetrafurans

16012911



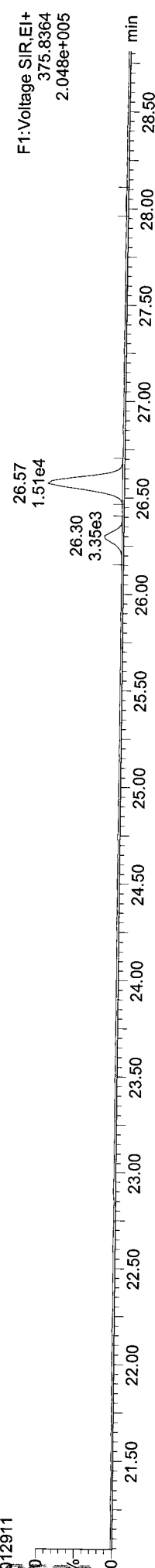
Total-tetrafurans

16012911



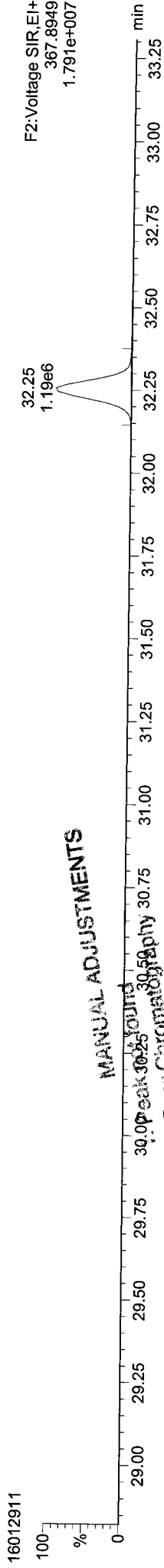
FUNCTION1 HXCDPE

16012911



ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

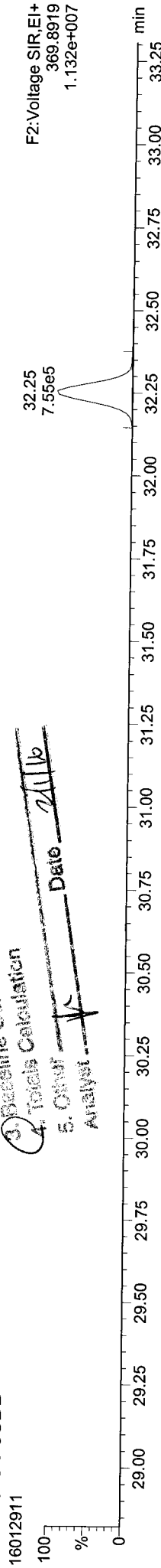
13C-12378-PeCDD



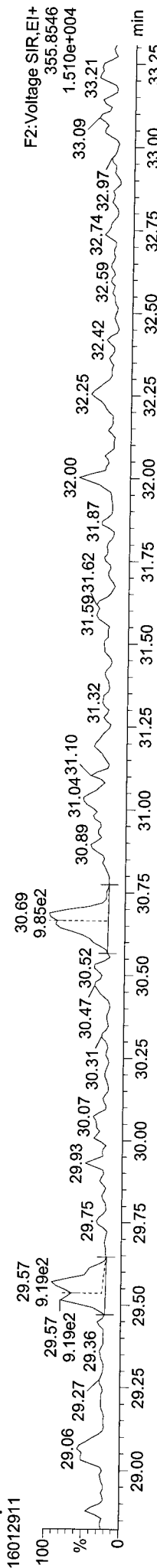
MANUAL ADJUSTMENTS

1. Peak 30.25 found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
- Analyst: Date: 2/1/16

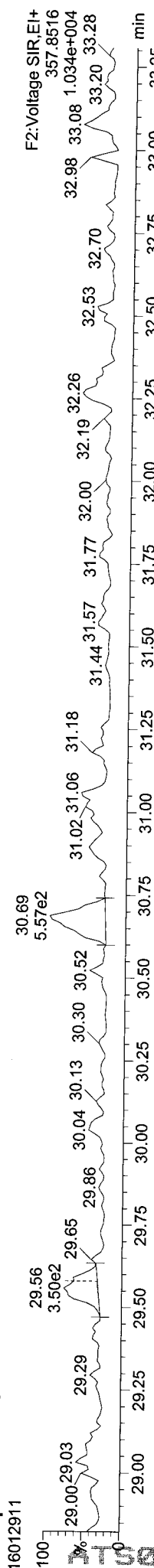
13C-12378-PeCDD



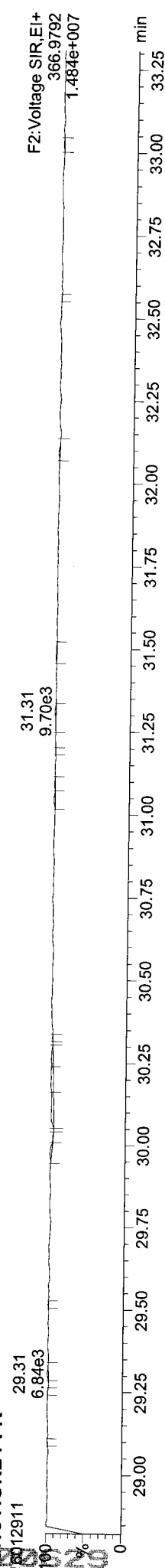
Total-pentadioxins



Total-pentadioxins

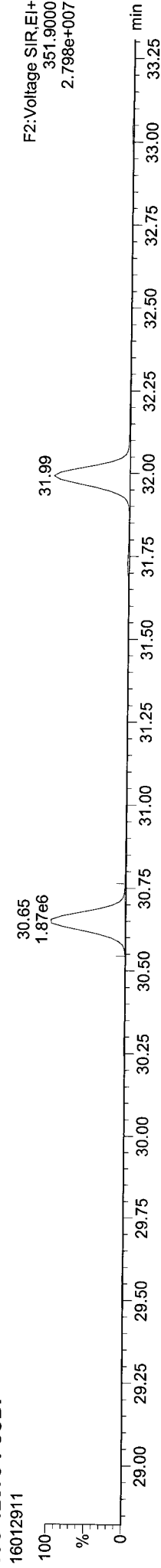


FUNCTION2 PFK

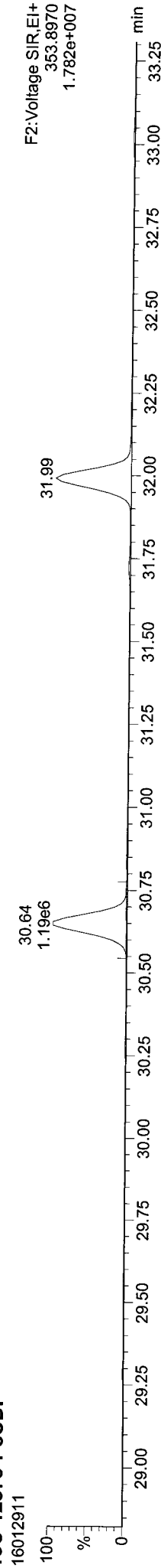


ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

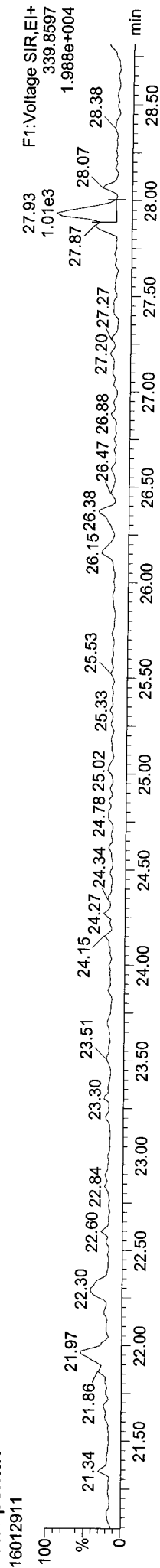
13C-12378-PeCDF



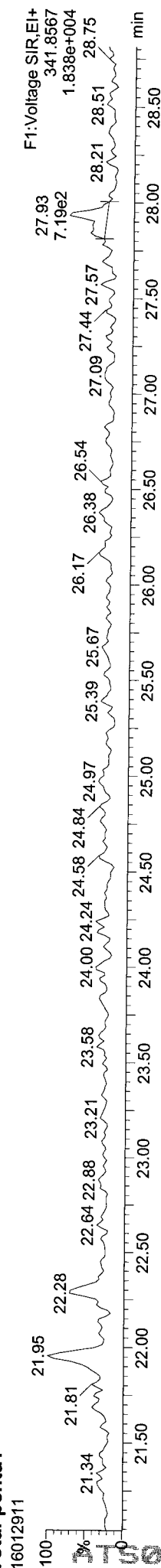
13C-12378-PeCDF



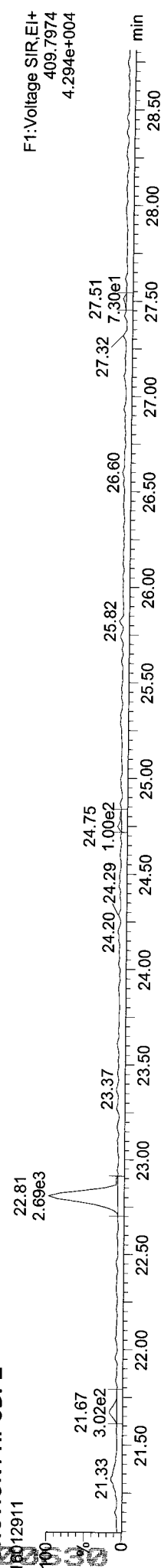
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

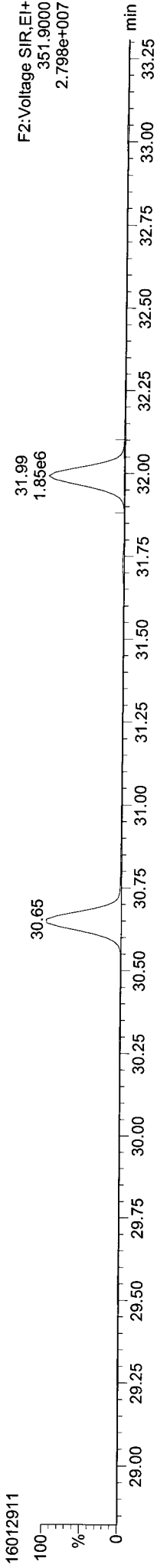


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

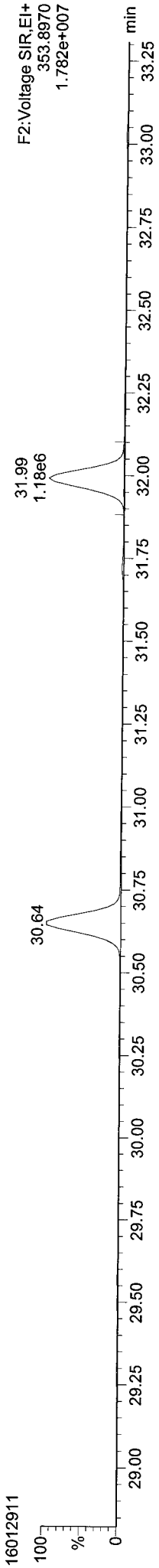
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

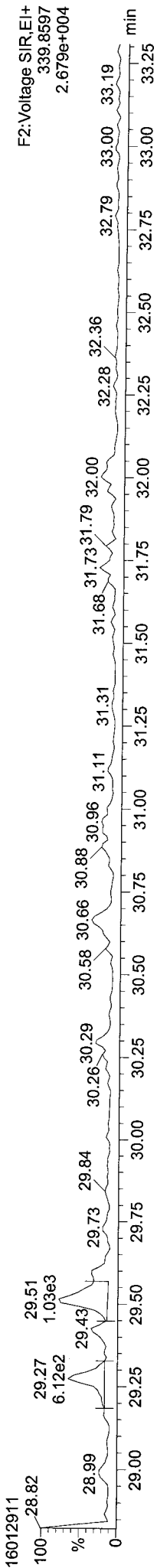
13C-23478-PeCDF



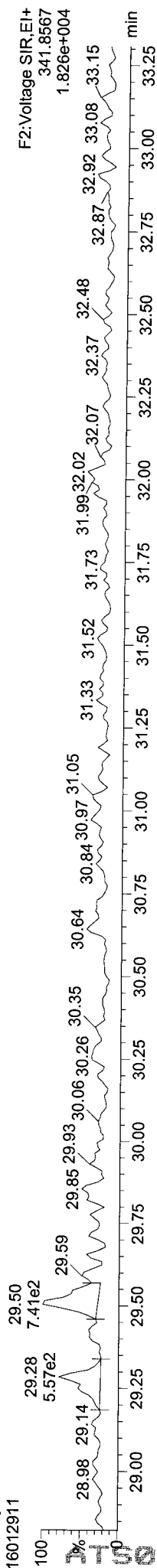
13C-23478-PeCDF



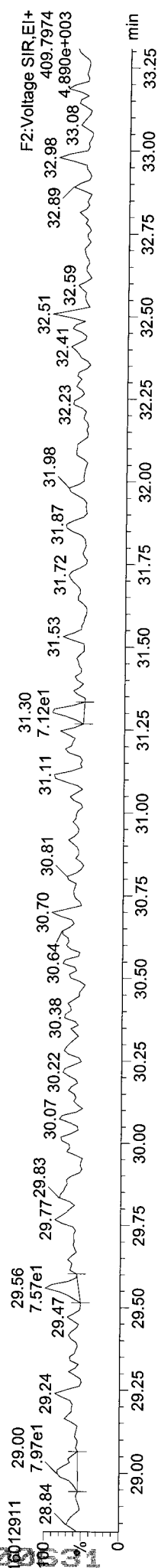
Total-pentafurans



Total-pentafurans

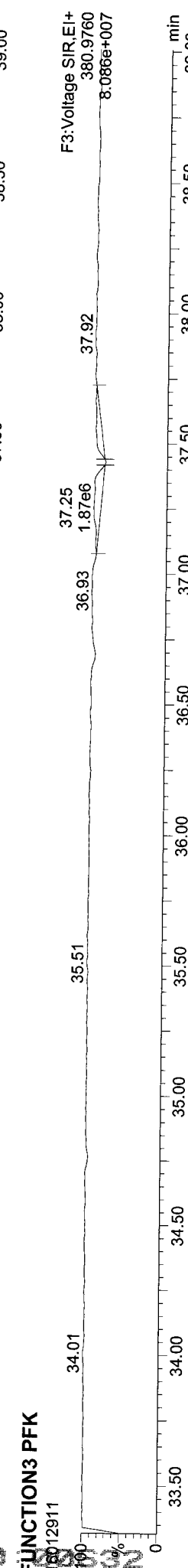
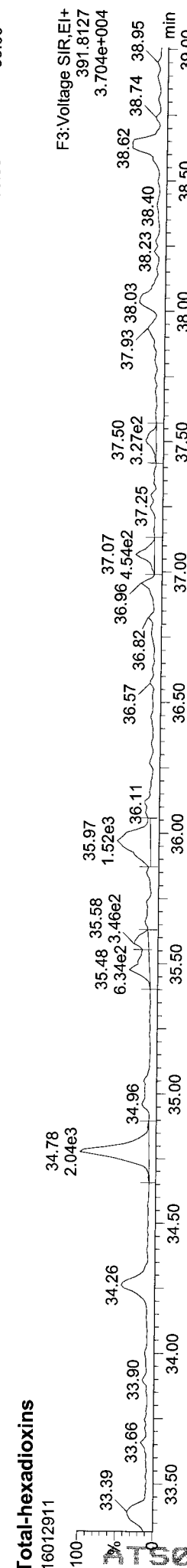
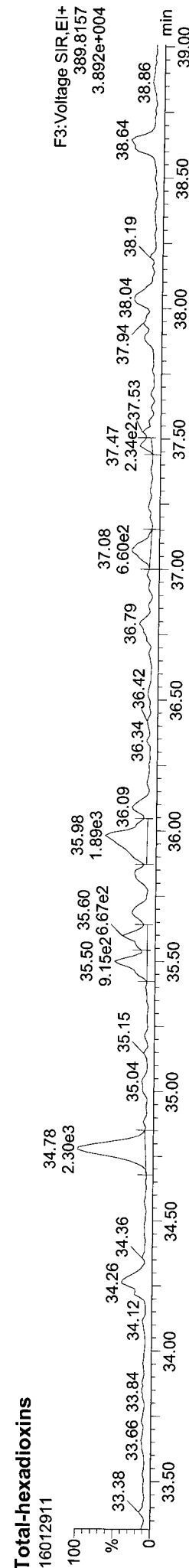
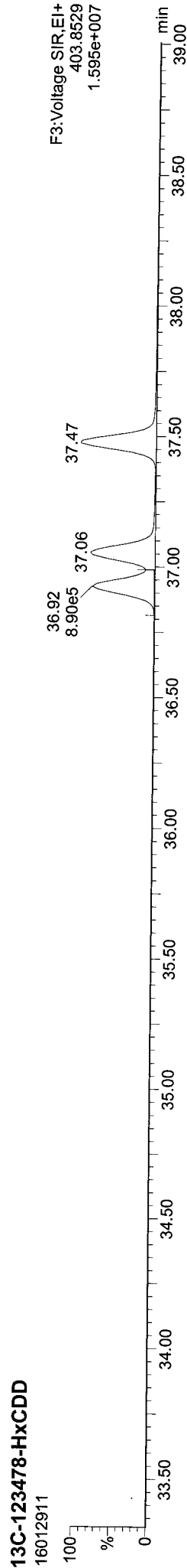
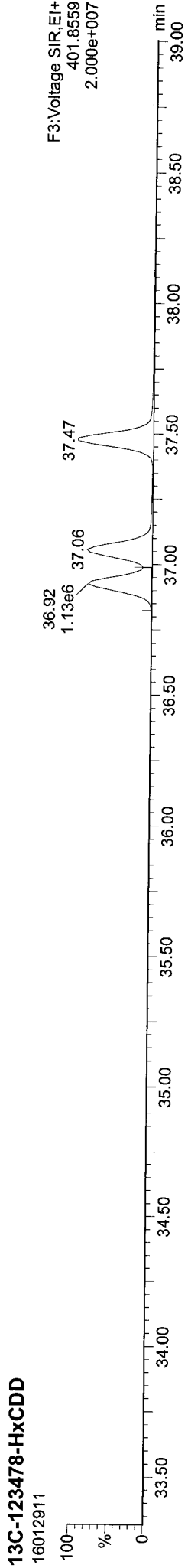


FUNCTION2 HPCDPE



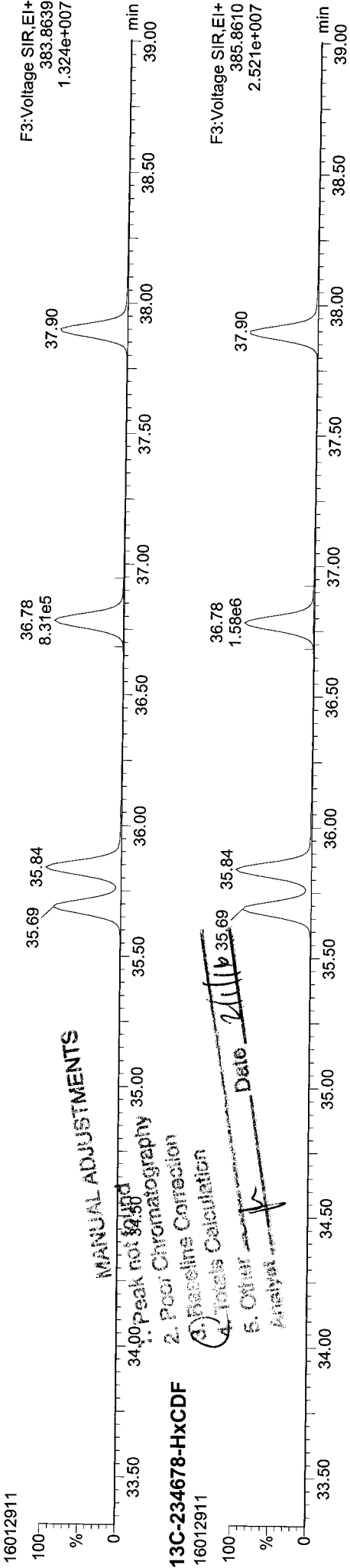
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

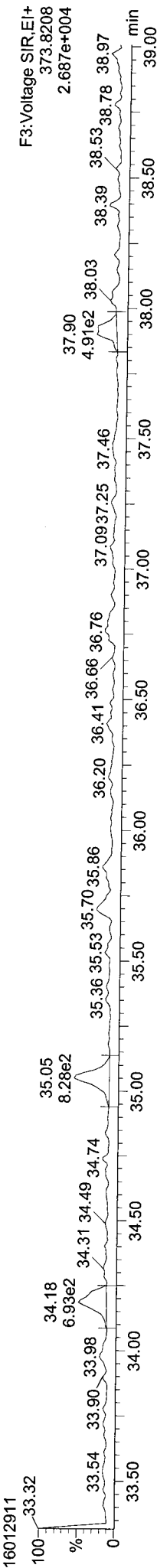


ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

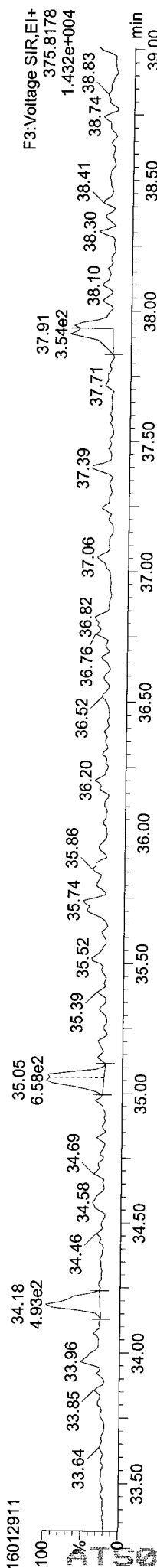
13C-234678-HxCDF



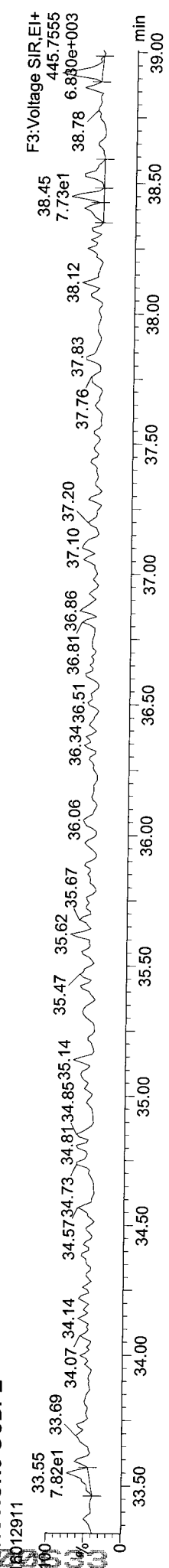
Total-hexafurans



Total-hexafurans



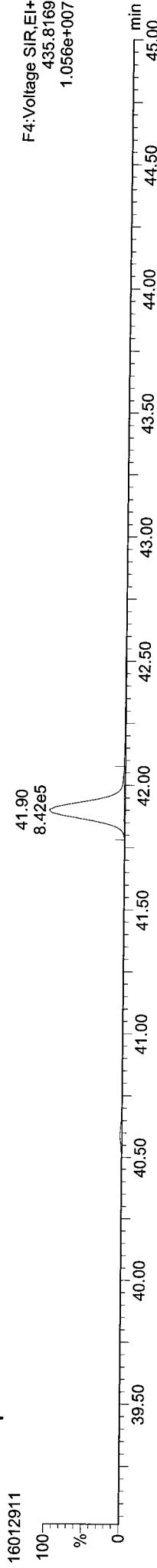
FUNCTION3 OCDPE



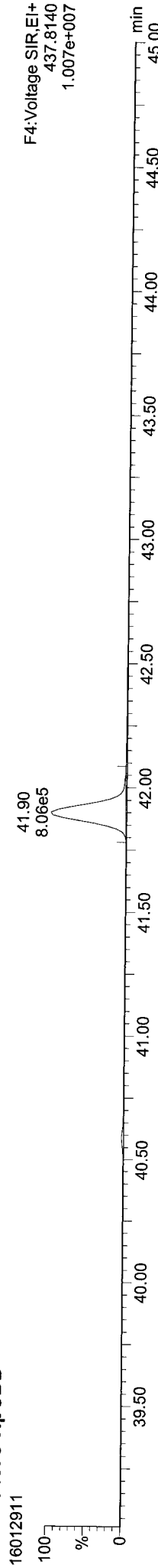
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

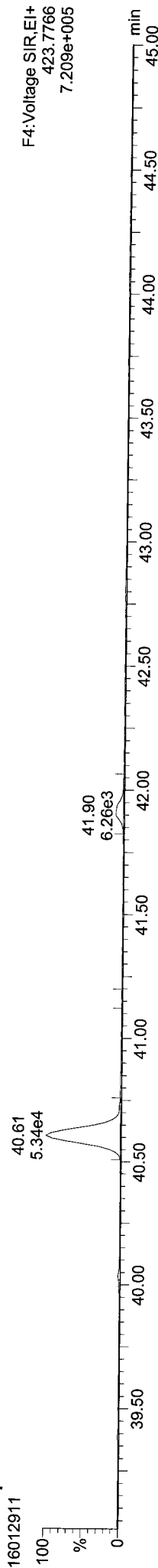
13C-1234678-HpCDD



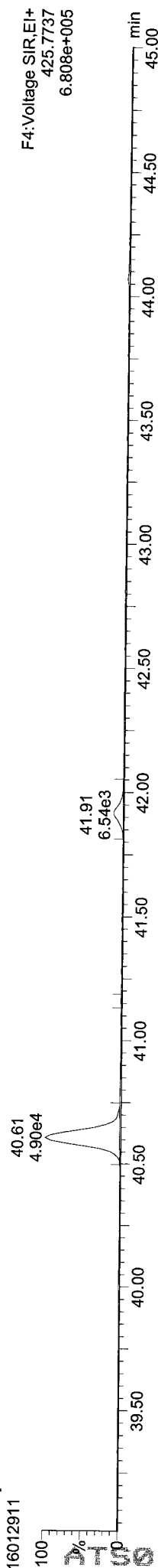
13C-1234678-HpCDD



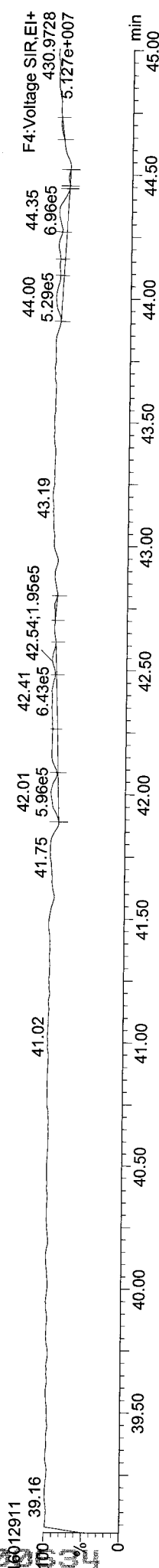
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx V4.1 SCN909

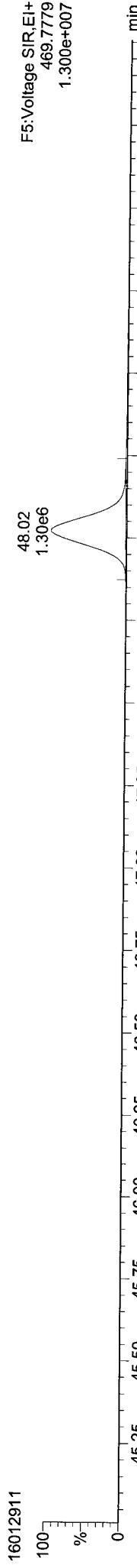
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

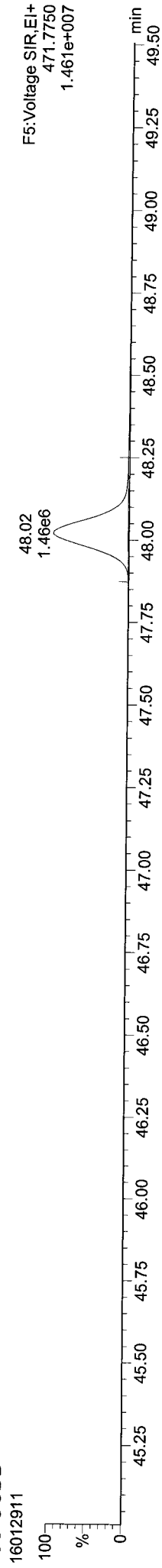
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

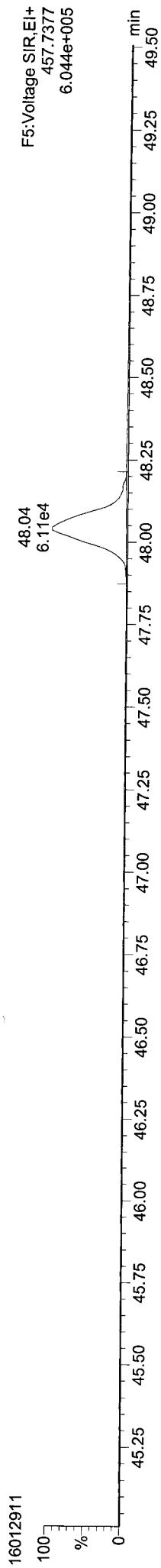
13C-OCDD



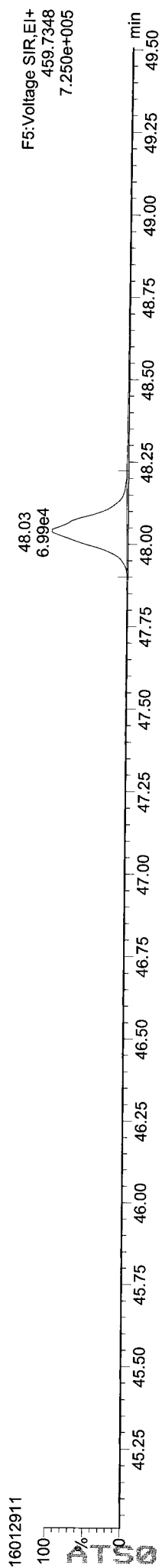
13C-OCDD



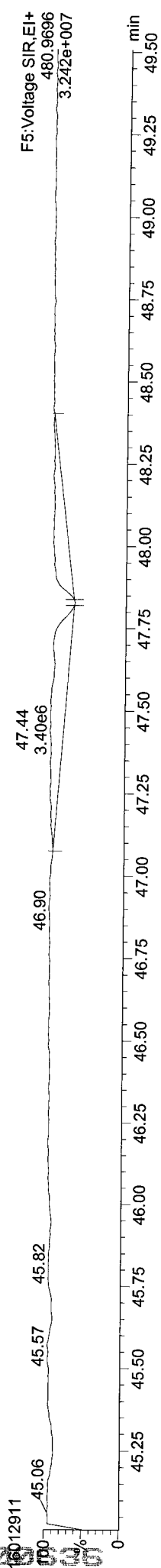
OCDD



OCDD



FUNCTION5 PFK

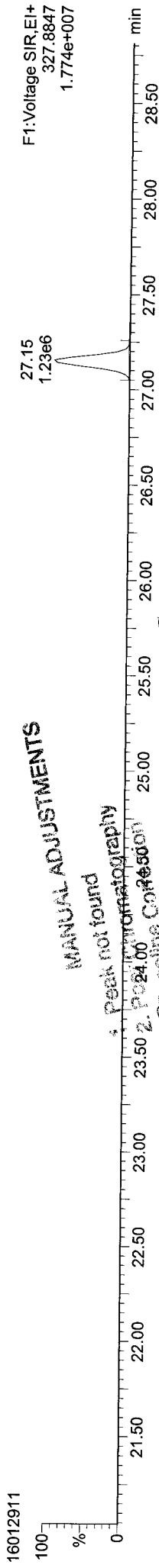


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

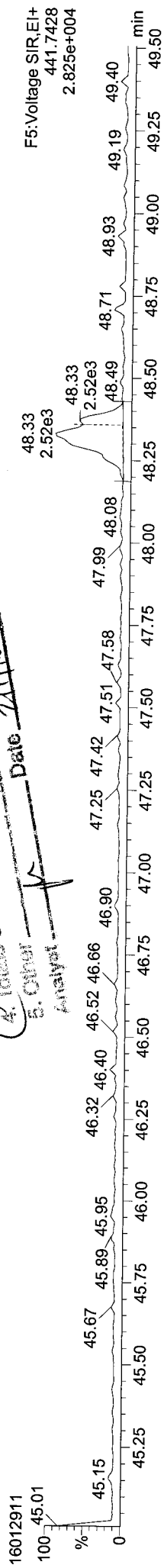
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

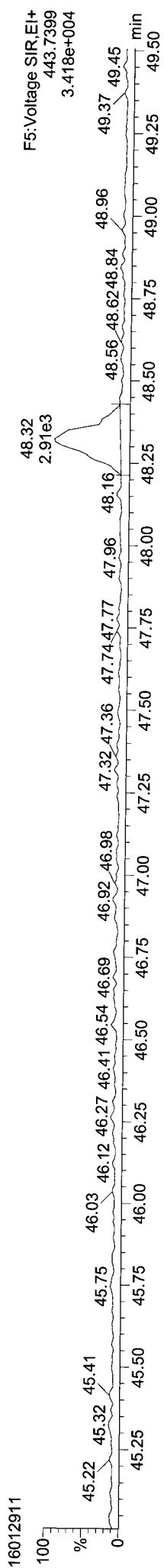
37CL-2378-TCDD



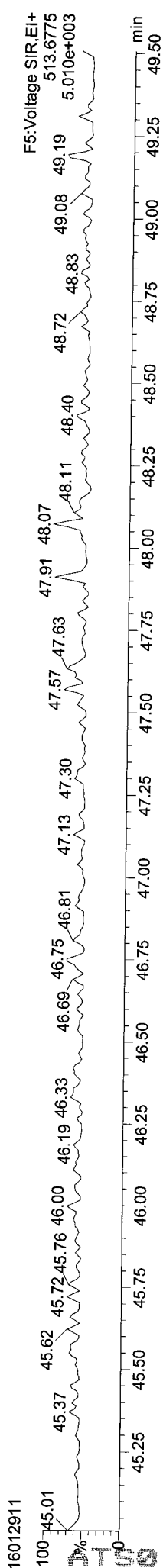
OCDF



OCDF



FUNCTION5 DCDPE



**ANALYTICAL RESOURCES
CDD/CDF EDL DATA
HIGH RESOLUTION**

Lab.Sample ID: AT50F
 Lab.File ID: 16012912
 Date Analysed: 29-Jan-16

Target Analytes	Selected Ions	Peak RT	Conc	EMPC	EDL
2378-TCDD	320/322	0.00			0.017
12378-PeCDD	356/358	0.00			0.030
123478-HxCDD	390/392	0.00			0.028
123678-HxCDD	390/392	37.09	0.0356		
123789-HxCDD	390/392	37.48	0.0257		
1234678-HpCDD	424/426	41.91	0.434		
OCDD	458/460	48.04	5.53		
2378-TCDF	304/306	26.50	0.0348	0.0280	
12378-PeCDF	340/342	30.68	0.0225		
23478-PeCDF	340/342	32.02	0.0175	0.0140	
123478-HxCDF	374/376	0.00			0.015
234678-HxCDF	374/376	0.00			0.014
123678-HxCDF	374/376	0.00			0.014
123789-HxCDF	374/376	37.93	0.0329	0.0270	
1234678-HpCDF	408/410	40.06	0.0759	0.0650	
1234789-HpCDF	408/410	0.00			0.012
OCDF	442/444	48.32	0.157	0.142	

Note: EDLs are on column values. Final EDL values are corrected for final volume of the extract (normally 20ul) and amount of sample extracted.

Quantify Sample Summary Report

MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.497	1.000	4.07e2	7.36e2	0.827	0.553	0.770	991	2370	7.58e3	1.23e4	7.6	YES	0.028	0.035
12378-PeCDF	30.676	1.000	3.43e2	2.51e2	0.824	1.367	1.550	1298	1459	4.50e3	5.46e3	3.5	NO	0.022	0.022
23478-PeCDF	32.024	1.001	2.23e2	2.53e2	0.850	0.881	1.550	1298	1459	5.28e3	4.68e3	4.1	YES	0.014	0.018
123478-HxCDF				0.973			1.240	791	984						
234678-HxCDF				1.025			1.240	791	984						
123678-HxCDF				0.953			1.240	791	984						
123789-HxCDF	37.932	1.001	3.43e2	4.03e2	0.956	0.850	1.240	791	984	5.46e3	7.90e3	6.9	YES	0.027	0.033
1234678-HpCDF	40.059	1.001	7.90e2	1.03e3	1.153	0.775	1.050	512	431	1.17e4	1.45e4	22.9	YES	0.065	0.076
1234789-HpCDF				1.131			1.050	512	431						
OCDF	48.322	1.006	1.01e3	1.35e3	1.023	0.746	0.890	945	1740	2.10e4	1.90e4	22.2	YES	0.142	0.157
2378-TCDD				1.023			0.770	1146	929						
12378-PeCDD				0.939			1.550	1753	1144						
123478-HxCDD				0.963			1.240	1617	1186						
123678-HxCDD	37.088	1.001	3.77e2	3.45e2	0.894	1.093	1.240	1617	1186	5.46e3	6.67e3	3.4	NO	0.036	0.036
123789-HxCDD	37.483	1.011	2.88e2	2.14e2	0.900	1.344	1.240	1617	1186	7.68e3	3.63e3	4.8	NO	0.026	0.026
1234678-HpCDD	41.911	1.001	3.85e3	3.99e3	0.964	0.963	1.050	885	767	5.18e4	4.80e4	58.6	NO	0.434	0.434
OCDD	48.035	1.000	3.75e4	4.11e4	0.969	0.913	0.890	784	766	3.53e5	3.99e5	450.6	NO	5.530	5.530
13C-2378-TCDF	26.497	1.006	1.96e6	1.24e6	1.502	0.779	0.770	6682	3999	2.60e7	3.32e7	3885.1	NO	98.005	98.005
13C-12378-PeCDF	30.665	1.165	1.96e6	1.24e6	1.215	1.579	1.550	2770	3619	2.92e7	1.87e7	10537.6	NO	97.623	97.623
13C-23478-PeCDF	32.002	1.215	1.96e6	1.23e6	1.181	1.589	1.550	2770	3619	3.01e7	1.89e7	10856.3	NO	100.007	100.007
13C-123478-HxCDF	35.696	0.952	8.32e5	1.61e6	1.246	0.517	0.510	3455	4489	1.25e7	2.43e7	3615.1	NO	86.311	86.311
13C-123678-HxCDF	35.850	0.956	9.03e5	1.74e6	1.375	0.518	0.510	3455	4489	1.36e7	2.62e7	3942.8	NO	84.737	84.737
13C-234678-HxCDF	36.792	0.982	8.59e5	1.64e6	1.186	0.522	0.510	3455	4489	1.28e7	2.43e7	3714.9	NO	93.016	93.016
13C-123789-HxCDF	37.899	1.011	8.14e5	1.56e6	1.135	0.521	0.510	3455	4489	1.28e7	2.44e7	3692.2	NO	92.204	92.204
13C-1234678-HpCDF	40.026	1.068	6.42e5	1.44e6	1.020	0.445	0.440	3252	3030	9.22e6	2.04e7	2834.0	NO	89.980	89.980
13C-1234789-HpCDF	42.810	1.142	5.45e5	1.22e6	0.824	0.448	0.440	3252	3030	6.58e6	1.47e7	2022.5	NO	94.278	94.278
13C-1234-TCDD	26.332	0.000	1.19e6	1.51e6	1.000	0.794	0.770	3622	1848	1.79e7	2.26e7	4945.9	NO	100.000	100.000
13C-2378-TCDD	27.139	1.031	1.06e6	1.33e6	0.983	0.795	0.770	3622	1848	1.56e7	1.98e7	4313.9	NO	89.860	89.860
13C-12378-PeCDD	32.265	1.225	1.24e6	7.85e5	0.787	1.586	1.550	1927	1529	1.87e7	1.17e7	9690.7	NO	95.490	95.490
13C-123478-HxCDD	36.935	0.985	1.17e6	9.06e5	1.031	1.294	1.240	2377	1486	1.74e7	1.36e7	7302.8	NO	88.794	88.794
13C-123678-HxCDD	37.066	0.989	1.24e6	1.03e6	1.137	1.212	1.240	2377	1486	1.82e7	1.45e7	7649.7	NO	88.029	88.029
13C-1234678-HpCDD	41.889	1.118	9.68e5	9.07e5	0.892	1.066	1.050	2949	2071	1.21e7	1.15e7	4115.2	NO	92.648	92.648
13C-OCDD	48.017	1.281	1.39e6	1.55e6	0.852	0.892	0.890	2360	1583	1.33e7	1.48e7	5634.9	NO	151.793	151.793

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.483	0.000	1.27e6	1.00e6	1.000	1.265	1.240	2377	1486	1.91e7	1.51e7	8047.8	NO		100.000
Total-tetrafurans			4.32e3		0.827			991		7.05e4					0.356
Total-penta1			8.95e2					722		1.49e4					0.057
Total-pentafurans			2.41e3		0.837			1298		3.73e4					0.149
Total-hexafurans			1.23e3		0.977			791		2.14e4					0.104
Total-heptafurans			2.00e3		1.142			512		3.13e4					0.187
Total-Furans			1.20e4		0.971			991		1.99e5					1.016
Total-tetradioxins			2.65e3		1.023			1146		3.70e4					0.233
Total-pentadioxins			2.88e2		0.939			1753		6.53e3					0.033
Total-hexadioxins			3.63e3		0.919			1617		5.81e4					0.324
Total-heptadioxins			2.67e4		0.964			885		3.62e5					2.935
Total-Dioxins			7.08e4		0.950			1146		8.17e5					9.055
Total-TEQ			8.28e4					1146		1.02e6					10.071
37CL-2378-TCDD	27.154	1.031	1.17e6		1.091			1491		1.70e7		11391.8			39.699
FUNCTION1 PFK			1.81e7					792575		3.36e7					
FUNCTION2 PFK			3.14e4					149088		1.10e6					0.000
FUNCTION3 PFK			2.63e7					643120		1.07e8					0.000
FUNCTION4 PFK			8.05e5					436476		6.67e6					
FUNCTION5 PFK			0.00e0					267155		0.00e0					
FUNCTION1 HXCDPE			1.60e4					882		2.13e5					0.000
FUNCTION1 HPCDPE			1.88e3					803		2.84e4					0.000
FUNCTION2 HPCDPE			4.35e2					1035		1.09e4					0.000
FUNCTION3 OCDPE			3.29e2					777		4.92e3					0.000
FUNCTION4 NCDPE			7.71e2					741		1.14e4					0.000
FUNCTION5 DCDPE			0.00e0					440		0.00e0					0.000

AT50 : 00640

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\Dioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.42	1293.095	0.827	0.039		0.84	0.77	NO	10.1
2	35 Total-tetrafurans	303.9016	25.21	1162.430	0.827	0.035		0.67	0.77	NO	6.5
3	35 Total-tetrafurans	303.9016	24.75	806.113	0.827	0.025		0.63	0.77	YES	5.5
4	35 Total-tetrafurans	303.9016	24.02	1036.984	0.827	0.032		0.42	0.77	YES	4.1
5	35 Total-tetrafurans	303.9016	23.85	1554.124	0.827	0.047		0.51	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	23.27	1163.556	0.827	0.035		0.34	0.77	YES	3.9
7	35 Total-tetrafurans	303.9016	23.03	753.427	0.827	0.023		0.63	0.77	YES	7.0
8	35 Total-tetrafurans	303.9016	26.77	1467.855	0.827	0.045		0.63	0.77	YES	9.1
9	1 2378-TCDF	303.9016	26.50	1142.418	0.827	0.035	0.028	0.55	0.77	YES	7.6
10	35 Total-tetrafurans	303.9016	26.33	615.425	0.827	0.019		1.89	0.77	YES	5.1
11	35 Total-tetrafurans	303.9016	26.26	691.227	0.827	0.021		0.29	0.77	YES	4.1

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.95	977.797		0.033		1.39	1.55	NO	12.6
2	36 Total-penta1	339.8597	27.87	680.992		0.023		0.92	1.55	YES	8.0

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	3 23478-PeCDF	339.8597	32.02	475.523	0.850	0.018	0.014	0.88	1.55	YES	4.1
2	2 12378-PeCDF	339.8597	30.68	593.463	0.824	0.022	0.022	1.37	1.55	NO	3.5
3	37 Total-pentafurans	339.8597	29.61	471.550	0.837	0.018		1.31	1.55	YES	3.8
4	37 Total-pentafurans	339.8597	29.54	1383.024	0.837	0.052		1.52	1.55	NO	9.2
5	37 Total-pentafurans	339.8597	29.29	1058.291	0.837	0.040		2.34	1.55	YES	8.3

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	37.93	746.135	0.956	0.033	0.027	0.85	1.24	YES	6.9
2	38 Total-hexafurans	373.8208	35.06	1013.312	0.977	0.042		0.57	1.24	YES	7.5
3	38 Total-hexafurans	373.8208	34.19	720.275	0.977	0.030		2.54	1.24	YES	12.6

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	8 1234678-HpCDF	407.7818	40.06	1823.915	1.153	0.076	0.065	0.77	1.05	YES	22.9
2	39 Total-heptafurans	407.7818	40.85	2436.118	1.142	0.111		0.97	1.05	NO	38.3

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 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.42	1293.095	0.827	0.039		0.84	0.77	NO	10.1
2	35 Total-tetrafurans	303.9016	25.21	1162.430	0.827	0.035		0.67	0.77	NO	6.5
3	35 Total-tetrafurans	303.9016	24.75	806.113	0.827	0.025		0.63	0.77	YES	5.5
4	35 Total-tetrafurans	303.9016	24.02	1036.984	0.827	0.032		0.42	0.77	YES	4.1
5	35 Total-tetrafurans	303.9016	23.85	1554.124	0.827	0.047		0.51	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	23.27	1163.556	0.827	0.035		0.34	0.77	YES	3.9
7	35 Total-tetrafurans	303.9016	23.03	753.427	0.827	0.023		0.63	0.77	YES	7.0
8	40 Total-Furans	303.9016	28.66	268.280	0.971	0.007		2.11	0.77	YES	2.7
9	35 Total-tetrafurans	303.9016	26.77	1467.855	0.827	0.045		0.63	0.77	YES	9.1
10	1 2378-TCDF	303.9016	26.50	1142.418	0.827	0.035	0.028	0.55	0.77	YES	7.6
11	35 Total-tetrafurans	303.9016	26.33	615.425	0.827	0.019		1.89	0.77	YES	5.1
12	35 Total-tetrafurans	303.9016	26.26	691.227	0.827	0.021		0.29	0.77	YES	4.1
13	3 23478-PeCDF	339.8597	32.02	475.523	0.850	0.018	0.014	0.88	1.55	YES	4.1
14	2 12378-PeCDF	339.8597	30.68	593.463	0.824	0.022	0.022	1.37	1.55	NO	3.5
15	37 Total-pentafurans	339.8597	29.61	471.550	0.837	0.018		1.31	1.55	YES	3.8
16	37 Total-pentafurans	339.8597	29.54	1383.024	0.837	0.052		1.52	1.55	NO	9.2
17	37 Total-pentafurans	339.8597	29.29	1058.291	0.837	0.040		2.34	1.55	YES	8.3
18	7 123789-HxCDF	373.8208	37.93	746.135	0.956	0.033	0.027	0.85	1.24	YES	6.9
19	38 Total-hexafurans	373.8208	35.06	1013.312	0.977	0.042		0.57	1.24	YES	7.5
20	38 Total-hexafurans	373.8208	34.19	720.275	0.977	0.030		2.54	1.24	YES	12.6
21	8 1234678-HpCDF	407.7818	40.06	1823.915	1.153	0.076	0.065	0.77	1.05	YES	22.9
22	10 OCDF	441.7428	48.32	2353.467	1.023	0.157	0.142	0.75	0.89	YES	22.2
23	39 Total-heptafurans	407.7818	40.85	2436.118	1.142	0.111		0.97	1.05	NO	38.3
24	36 Total-penta1	339.8597	27.95	977.797		0.033		1.39	1.55	NO	12.6
25	36 Total-penta1	339.8597	27.87	680.992		0.023		0.92	1.55	YES	8.0

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	26.80	1053.475	1.023	0.043		0.92	0.77	YES	4.8
2	41 Total-tetradioxins	319.8965	24.55	1278.613	1.023	0.052		1.54	0.77	YES	10.5
3	41 Total-tetradioxins	319.8965	24.29	3355.208	1.023	0.137		0.69	0.77	NO	17.0

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	30.67	636.379	0.939	0.033		0.83	1.55	YES	3.7

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	35.99	1821.036	0.919	0.091		1.07	1.24	NO	7.3
2	43 Total-hexadioxins	389.8157	35.84	632.158	0.919	0.032		2.55	1.24	YES	4.6
3	43 Total-hexadioxins	389.8157	35.50	837.446	0.919	0.042		1.22	1.24	NO	6.1
4	43 Total-hexadioxins	389.8157	34.80	1947.868	0.919	0.098		1.32	1.24	NO	9.8
5	15 123789-HxCDD	389.8157	37.48	502.045	0.900	0.026	0.026	1.34	1.24	NO	4.8
6	14 123678-HxCDD	389.8157	37.09	721.333	0.894	0.036	0.036	1.09	1.24	NO	3.4

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.91	7840.920	0.964	0.434	0.434	0.96	1.05	NO	58.6
2	44 Total-heptadioxins	423.7766	40.79	362.518	0.964	0.020		0.39	1.05	YES	3.8
3	44 Total-heptadioxins	423.7766	40.61	44853.053	0.964	2.481		1.03	1.05	NO	346.6

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	26.80	1053.475	1.023	0.043		0.92	0.77	YES	4.8
2	41 Total-tetradoxins	319.8965	24.55	1278.613	1.023	0.052		1.54	0.77	YES	10.5
3	41 Total-tetradoxins	319.8965	24.29	3355.208	1.023	0.137		0.69	0.77	NO	17.0
4	42 Total-pentadioxins	355.8546	30.67	636.379	0.939	0.033		0.83	1.55	YES	3.7
5	43 Total-hexadioxins	389.8157	35.99	1821.036	0.919	0.091		1.07	1.24	NO	7.3
6	43 Total-hexadioxins	389.8157	35.84	632.158	0.919	0.032		2.55	1.24	YES	4.6
7	43 Total-hexadioxins	389.8157	35.50	837.446	0.919	0.042		1.22	1.24	NO	6.1
8	43 Total-hexadioxins	389.8157	34.80	1947.868	0.919	0.098		1.32	1.24	NO	9.8
9	15 123789-HxCDD	389.8157	37.48	502.045	0.900	0.026	0.026	1.34	1.24	NO	4.8
10	14 123678-HxCDD	389.8157	37.09	721.333	0.894	0.036	0.036	1.09	1.24	NO	3.4
11	16 1234678-HpCDD	423.7766	41.91	7840.920	0.964	0.434	0.434	0.96	1.05	NO	58.6
12	44 Total-heptadioxins	423.7766	40.79	362.518	0.964	0.020		0.39	1.05	YES	3.8
13	44 Total-heptadioxins	423.7766	40.61	44853.053	0.964	2.481		1.03	1.05	NO	346.6
14	17 OCDD	457.7377	48.04	78585.843	0.969	5.530	5.530	0.91	0.89	NO	450.6

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 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.42	1293.095	0.827	0.039		0.84	0.77	NO	10.1
2	35 Total-tetrafurans	303.9016	25.21	1162.430	0.827	0.035		0.67	0.77	NO	6.5
3	35 Total-tetrafurans	303.9016	24.75	806.113	0.827	0.025		0.63	0.77	YES	5.5
4	35 Total-tetrafurans	303.9016	24.02	1036.984	0.827	0.032		0.42	0.77	YES	4.1
5	35 Total-tetrafurans	303.9016	23.85	1554.124	0.827	0.047		0.51	0.77	YES	8.0
6	35 Total-tetrafurans	303.9016	23.27	1163.556	0.827	0.035		0.34	0.77	YES	3.9
7	35 Total-tetrafurans	303.9016	23.03	753.427	0.827	0.023		0.63	0.77	YES	7.0
8	40 Total-Furans	303.9016	28.66	268.280	0.971	0.007		2.11	0.77	YES	2.7
9	35 Total-tetrafurans	303.9016	26.77	1467.855	0.827	0.045		0.63	0.77	YES	9.1
10	1 2378-TCDF	303.9016	26.50	1142.418	0.827	0.035	0.028	0.55	0.77	YES	7.6
11	35 Total-tetrafurans	303.9016	26.33	615.425	0.827	0.019		1.89	0.77	YES	5.1
12	35 Total-tetrafurans	303.9016	26.26	691.227	0.827	0.021		0.29	0.77	YES	4.1
13	3 23478-PeCDF	339.8597	32.02	475.523	0.850	0.018	0.014	0.88	1.55	YES	4.1
14	2 12378-PeCDF	339.8597	30.68	593.463	0.824	0.022	0.022	1.37	1.55	NO	3.5
15	37 Total-pentafurans	339.8597	29.61	471.550	0.837	0.018		1.31	1.55	YES	3.8
16	37 Total-pentafurans	339.8597	29.54	1383.024	0.837	0.052		1.52	1.55	NO	9.2
17	37 Total-pentafurans	339.8597	29.29	1058.291	0.837	0.040		2.34	1.55	YES	8.3
18	7 123789-HxCDF	373.8208	37.93	746.135	0.956	0.033	0.027	0.85	1.24	YES	6.9
19	38 Total-hexafurans	373.8208	35.06	1013.312	0.977	0.042		0.57	1.24	YES	7.5
20	38 Total-hexafurans	373.8208	34.19	720.275	0.977	0.030		2.54	1.24	YES	12.6
21	8 1234678-HpCDF	407.7818	40.06	1823.915	1.153	0.076	0.065	0.77	1.05	YES	22.9
22	10 OCDF	441.7428	48.32	2353.467	1.023	0.157	0.142	0.75	0.89	YES	22.2
23	39 Total-heptafurans	407.7818	40.85	2436.118	1.142	0.111		0.97	1.05	NO	38.3
24	36 Total-penta1	339.8597	27.95	977.797		0.033		1.39	1.55	NO	12.6
25	36 Total-penta1	339.8597	27.87	680.992		0.023		0.92	1.55	YES	8.0
26	41 Total-tetradioxins	319.8965	26.80	1053.475	1.023	0.043		0.92	0.77	YES	4.8
27	41 Total-tetradioxins	319.8965	24.55	1278.613	1.023	0.052		1.54	0.77	YES	10.5
28	41 Total-tetradioxins	319.8965	24.29	3355.208	1.023	0.137		0.69	0.77	NO	17.0
29	42 Total-pentadioxins	355.8546	30.67	636.379	0.939	0.033		0.83	1.55	YES	3.7
30	43 Total-hexadioxins	389.8157	35.99	1821.036	0.919	0.091		1.07	1.24	NO	7.3
31	43 Total-hexadioxins	389.8157	35.84	632.158	0.919	0.032		2.55	1.24	YES	4.6
32	43 Total-hexadioxins	389.8157	35.50	837.446	0.919	0.042		1.22	1.24	NO	6.1
33	43 Total-hexadioxins	389.8157	34.80	1947.868	0.919	0.098		1.32	1.24	NO	9.8
34	15 123789-HxCDD	389.8157	37.48	502.045	0.900	0.026	0.026	1.34	1.24	NO	4.8
35	14 123678-HxCDD	389.8157	37.09	721.333	0.894	0.036	0.036	1.09	1.24	NO	3.4
36	16 1234678-HpCDD	423.7766	41.91	7840.920	0.964	0.434	0.434	0.96	1.05	NO	58.6
37	44 Total-heptadioxins	423.7766	40.79	362.518	0.964	0.020		0.39	1.05	YES	3.8
38	44 Total-heptadioxins	423.7766	40.61	44853.053	0.964	2.481		1.03	1.05	NO	346.6
39	17 OCDD	457.7377	48.04	78585.843	0.969	5.530	5.530	0.91	0.89	NO	450.6

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	21.45	0.000							30.1
2	48 FUNCTION1 PFK	330.9792	23.33	0.000							1.9
3	48 FUNCTION1 PFK	330.9792	22.21	0.000							10.4

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

PFK2

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	32.57	0.000	0.000					1.8
2	49 FUNCTION2 PFK	366.9792	32.38	0.000	0.000					1.0
3	49 FUNCTION2 PFK	366.9792	30.81	0.000	0.000					1.7
4	49 FUNCTION2 PFK	366.9792	30.61	0.000	0.000					1.8
5	49 FUNCTION2 PFK	366.9792	29.58	0.000	0.000					1.1

PFK3

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	36.50	0.000	0.000					1.9
2	50 FUNCTION3 PFK	380.9760	35.62	0.000	0.000					1.1
3	50 FUNCTION3 PFK	380.9760	34.86	0.000	0.000					1.3
4	50 FUNCTION3 PFK	380.9760	34.21	0.000	0.000					23.0
5	50 FUNCTION3 PFK	380.9760	33.98	0.000	0.000					31.9
6	50 FUNCTION3 PFK	380.9760	33.59	0.000	0.000					49.0
7	50 FUNCTION3 PFK	380.9760	33.38	0.000	0.000					57.8
8	50 FUNCTION3 PFK	380.9760	36.54	0.000	0.000					0.9

PFK4

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	44.48	0.000						3.0
2	51 FUNCTION4 PFK	430.9728	44.33	0.000						5.7
3	51 FUNCTION4 PFK	430.9728	41.78	0.000						6.6

PFK5

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

ETHERS1

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	28.04	0.000	0.000					4.5
2	53 FUNCTION1 HXCD...	375.8364	26.72	0.000	0.000					3.1
3	53 FUNCTION1 HXCD...	375.8364	26.59	0.000	0.000					189.9
4	53 FUNCTION1 HXCD...	375.8364	26.32	0.000	0.000					44.4

ETHERS2

#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	22.81	0.000	0.000					22.7
2	54 FUNCTION1 HPCD...	409.7974	21.70	0.000	0.000					6.2
3	54 FUNCTION1 HPCD...	409.7974	21.33	0.000	0.000					6.6

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

ETHERS3

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.30	0.000	0.000				2.0
2	55 FUNCTION2 HPCD...	409.7974	30.90	0.000	0.000				1.6
3	55 FUNCTION2 HPCD...	409.7974	30.39	0.000	0.000				2.1
4	55 FUNCTION2 HPCD...	409.7974	29.94	0.000	0.000				3.8
5	55 FUNCTION2 HPCD...	409.7974	29.38	0.000	0.000				0.9

ETHERS4

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	38.75	0.000	0.000				2.3
2	56 FUNCTION3 OCDPE	445.7555	35.67	0.000	0.000				2.4
3	56 FUNCTION3 OCDPE	445.7555	35.37	0.000	0.000				1.6

ETHERS5

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.61	0.000	0.000				15.4

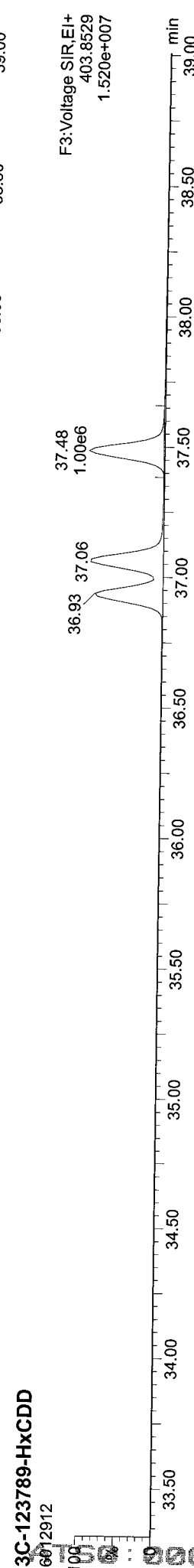
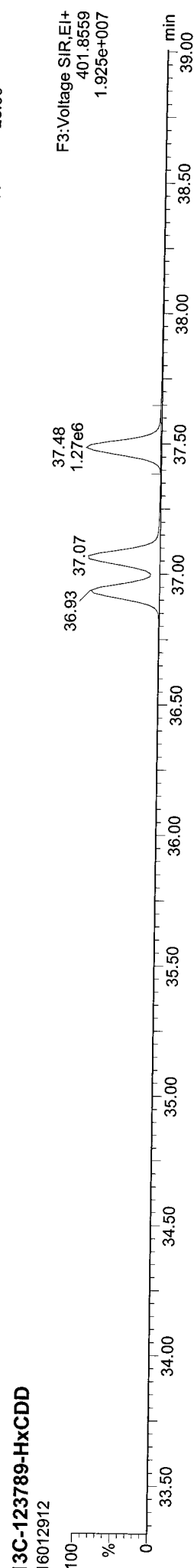
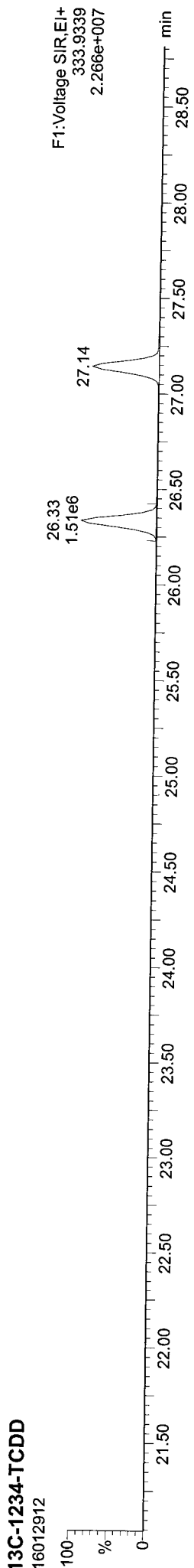
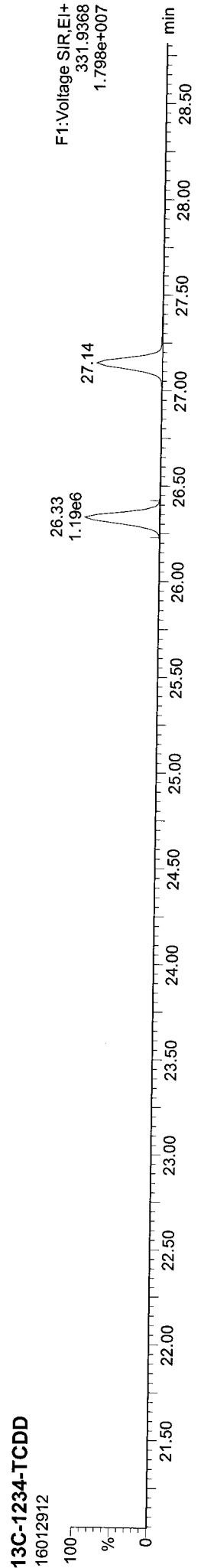
ETHERS6

	# Name	Trace	RT	Abs.Resp RRF M...	pg EMPC	1° Rati...	1° Rati...	1° R...	S/N
1									

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

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Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

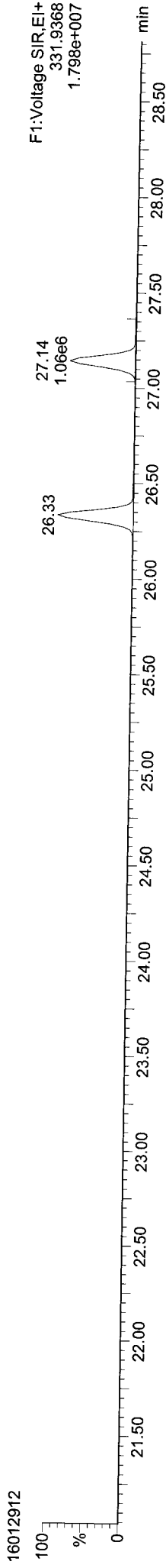
ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk



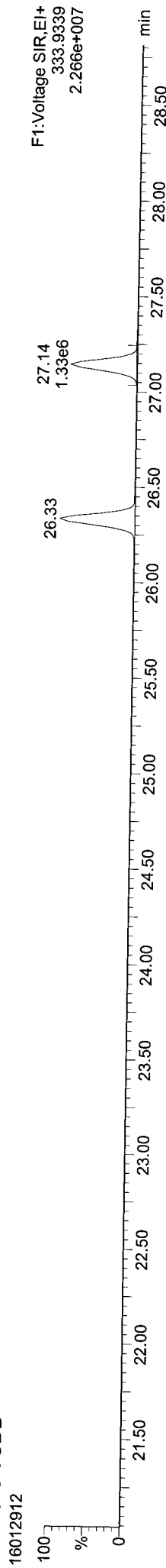
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

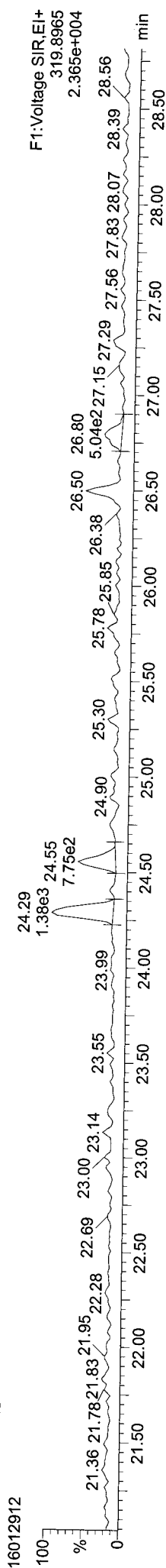
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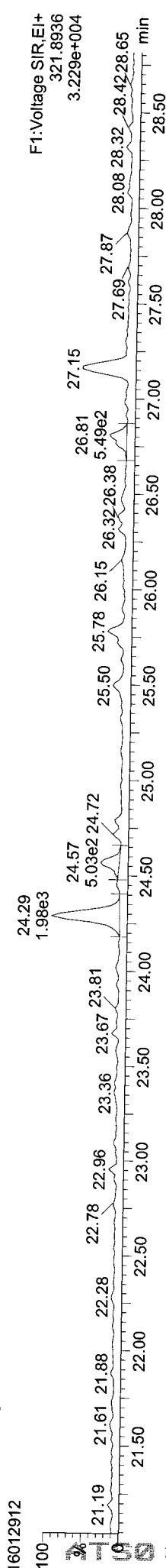
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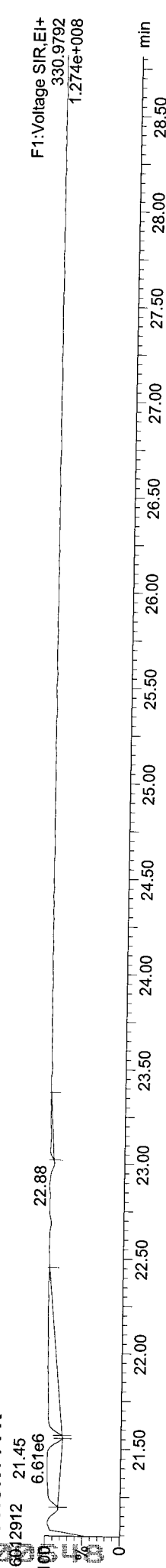
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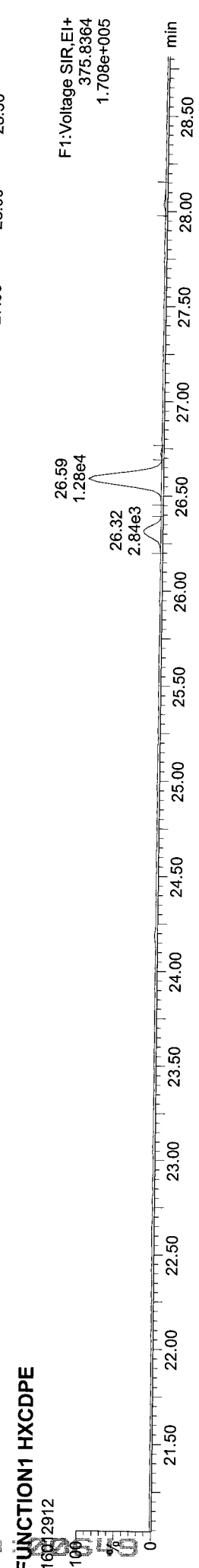
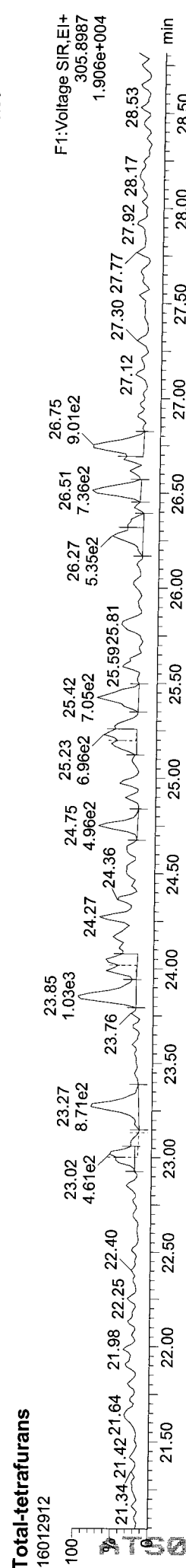
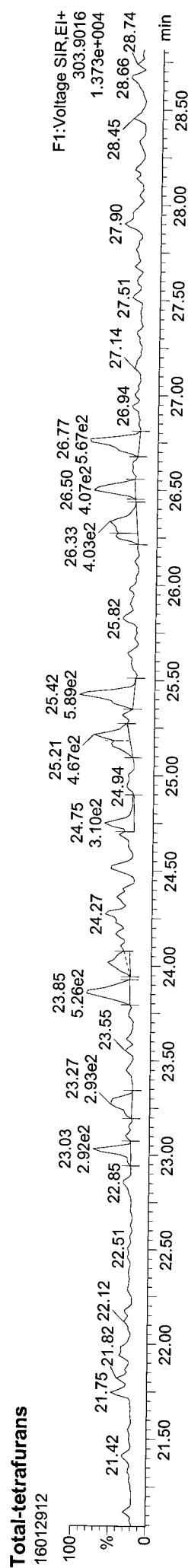
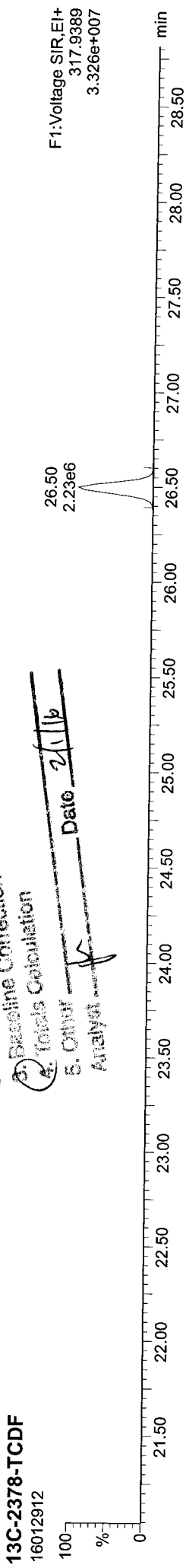
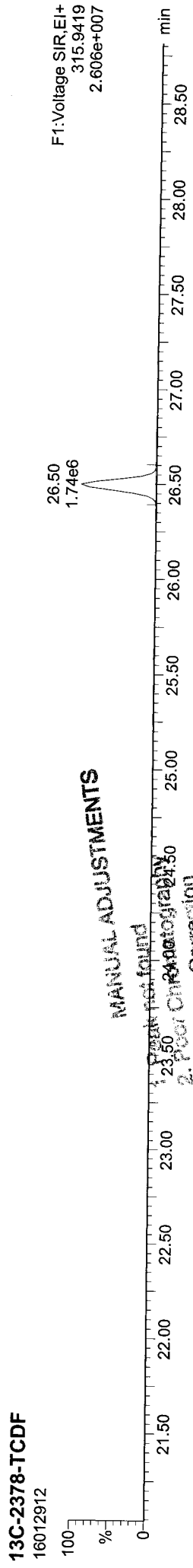
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FUNCTION1 PFK



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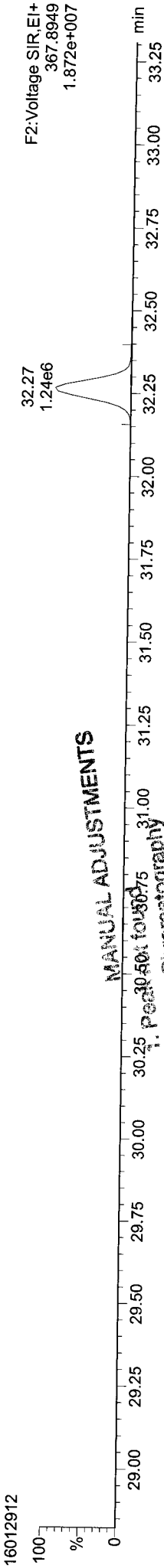


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

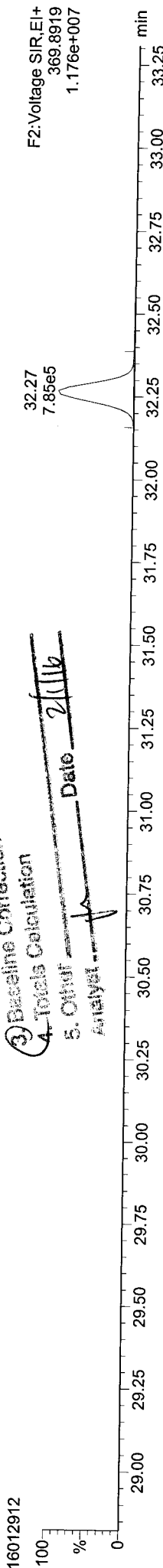
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

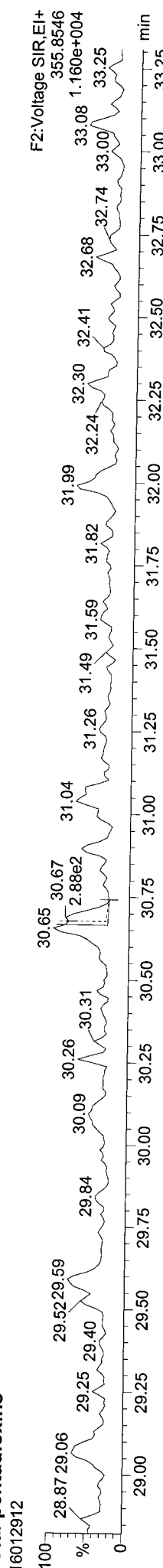
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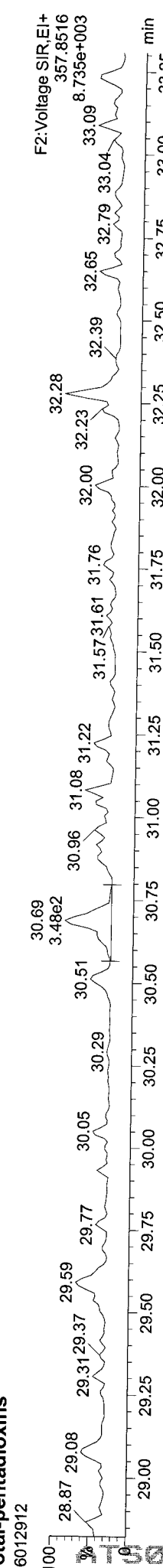
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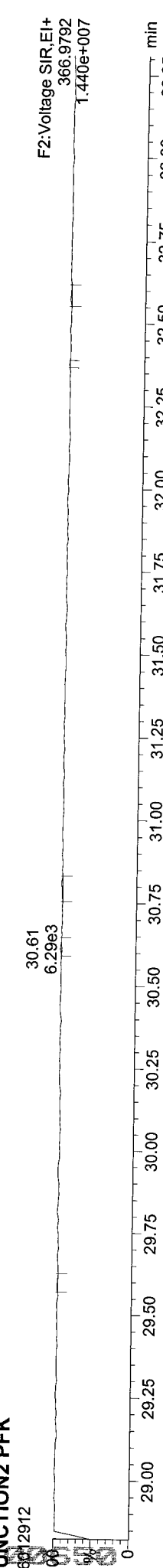
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

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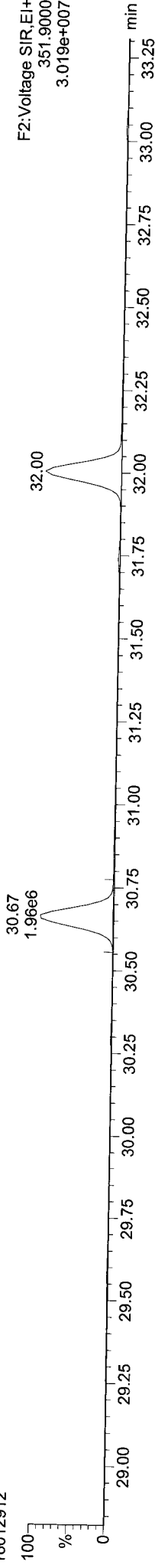
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Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

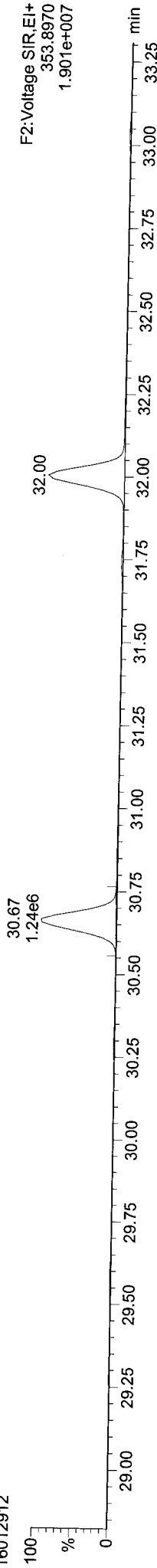
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16012912



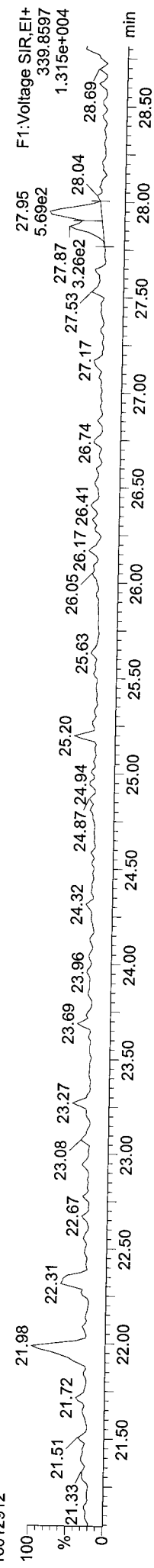
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16012912



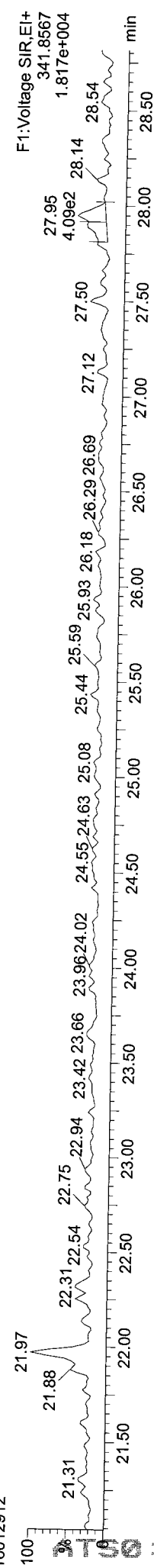
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16012912



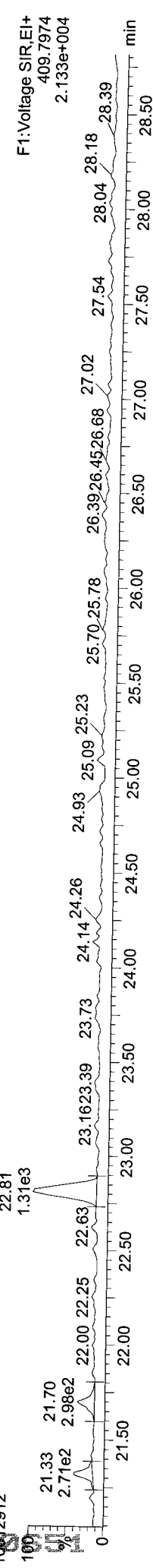
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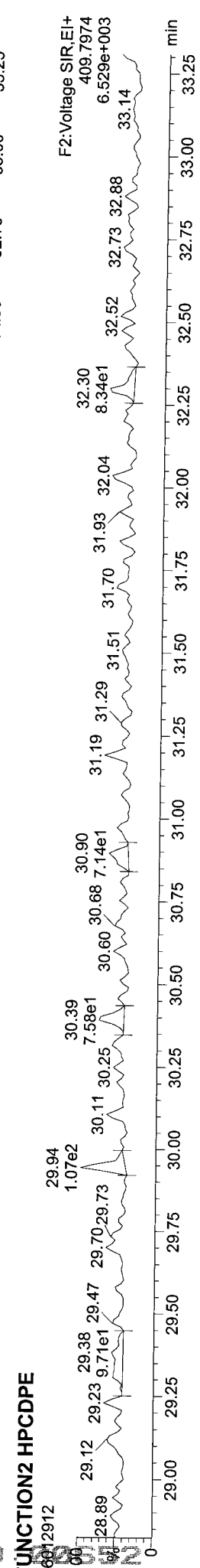
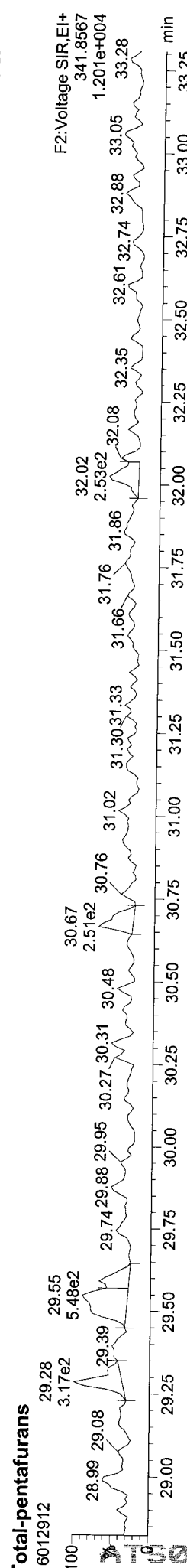
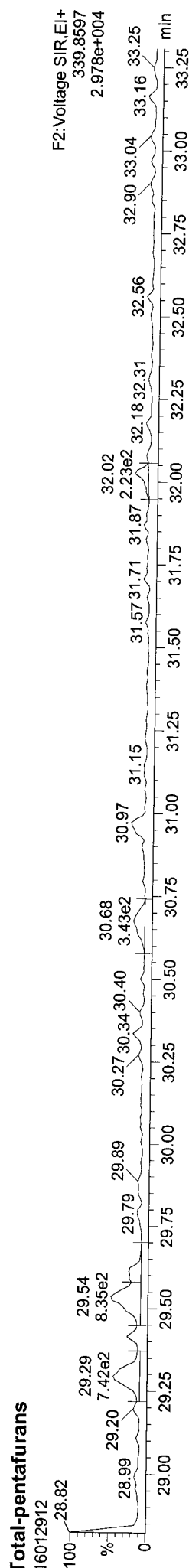
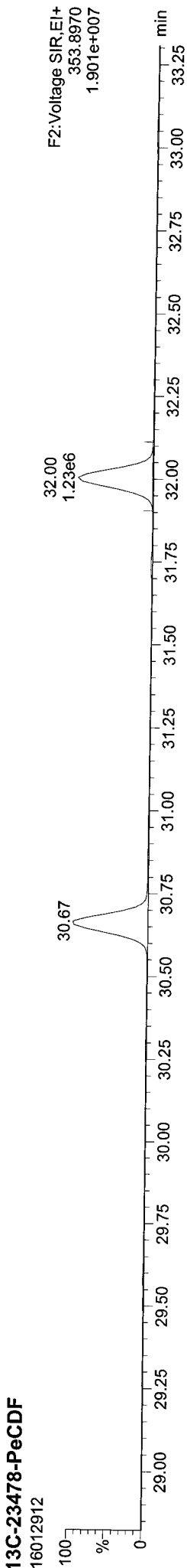
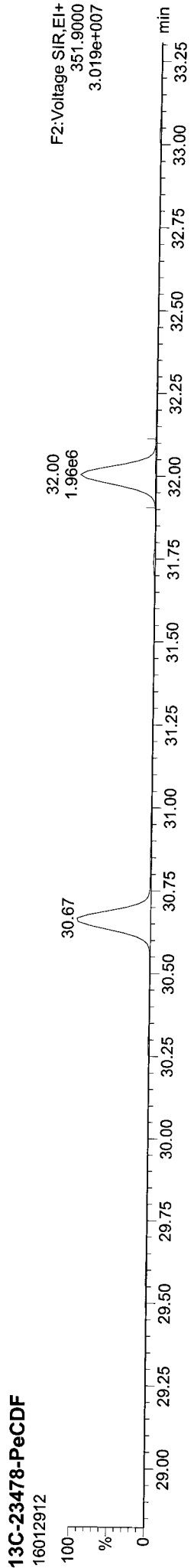


FUNCTION1 HPCDF

16012912

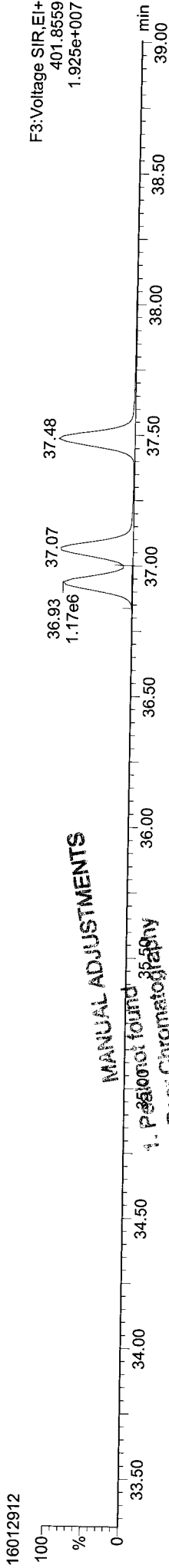


ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

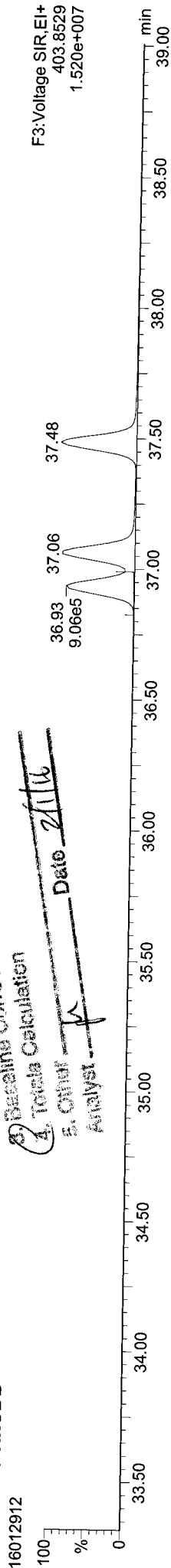


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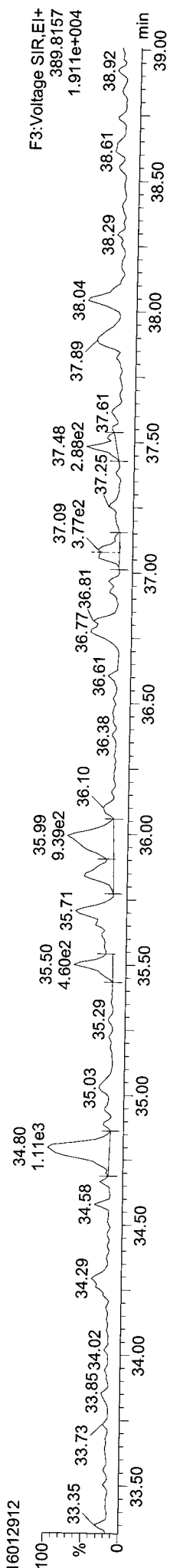
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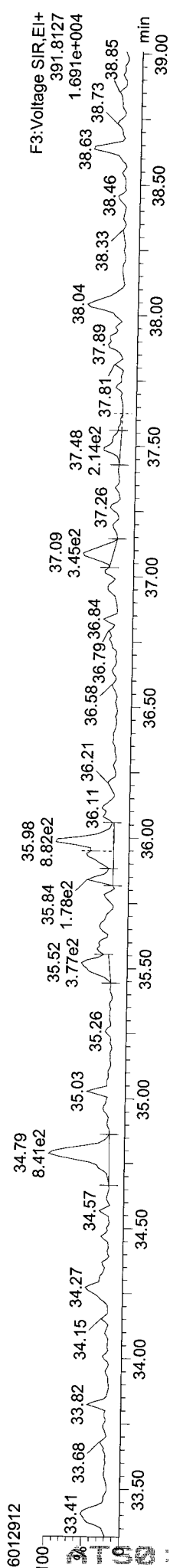
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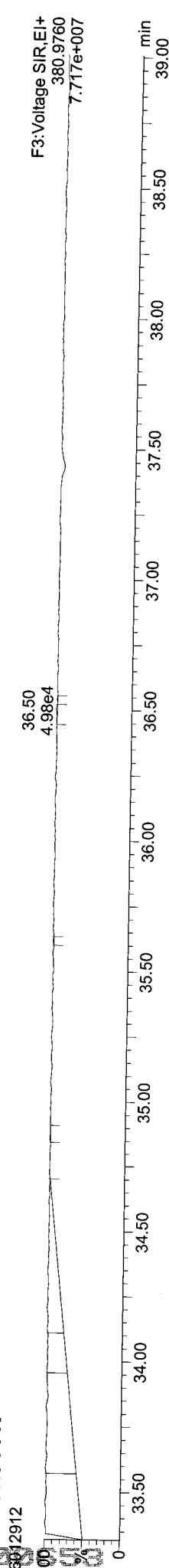
Total-hexadioxins



Total-hexadioxins

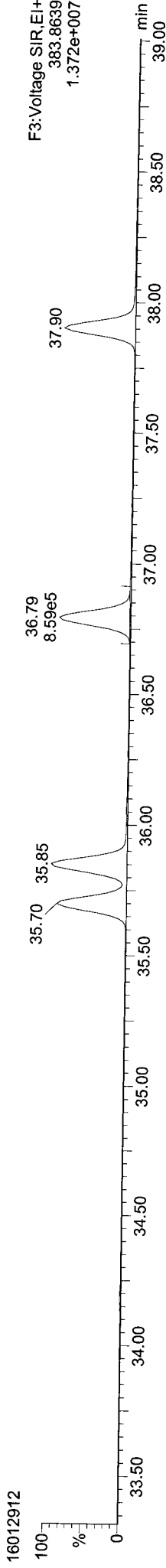


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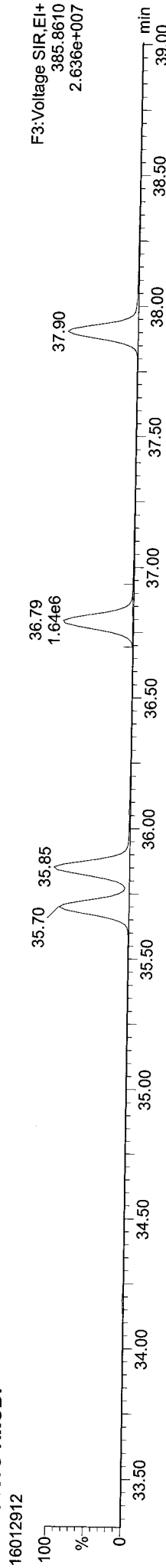


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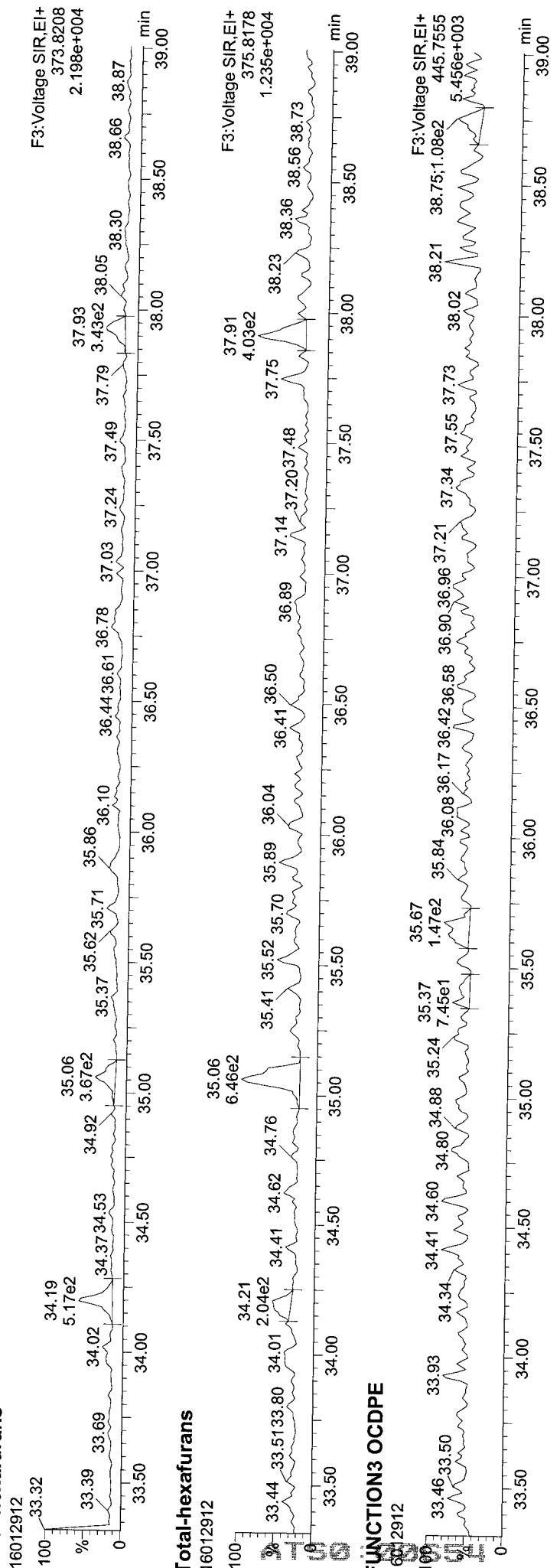
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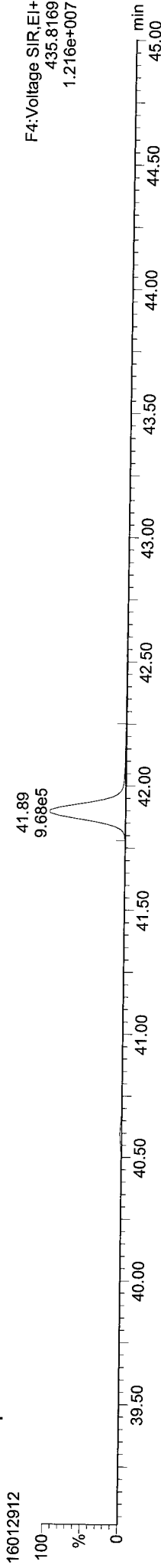
FUNCTION3 OCDFE



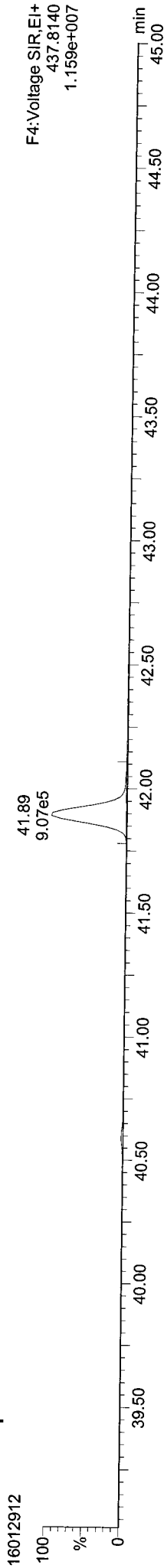
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

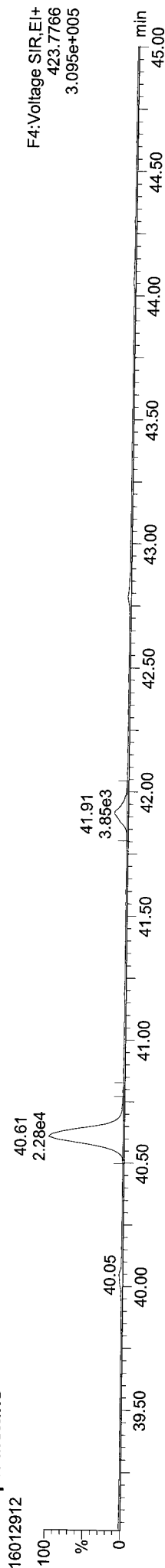
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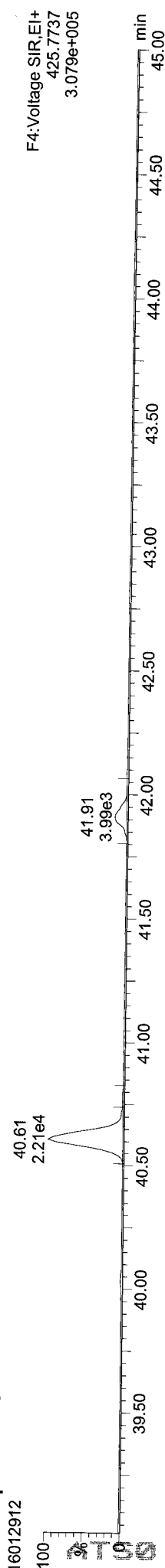
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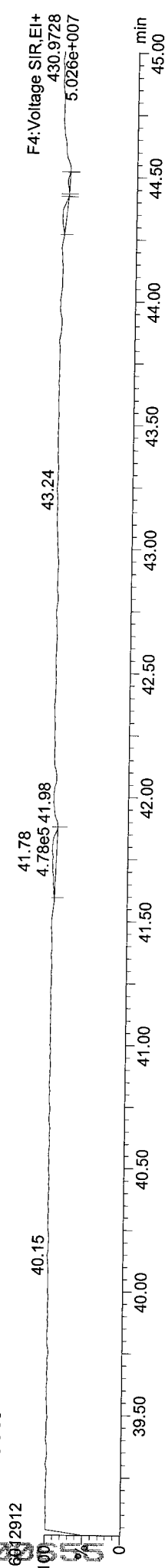
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

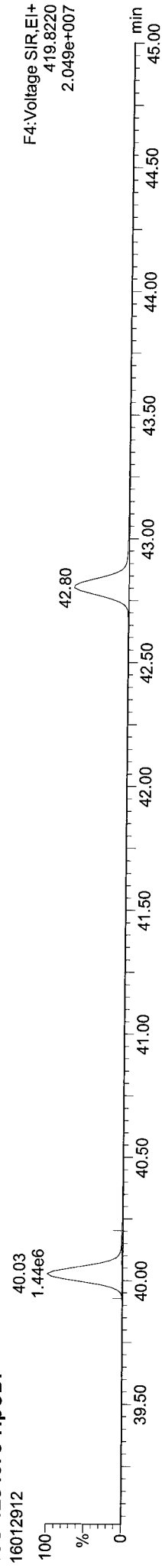
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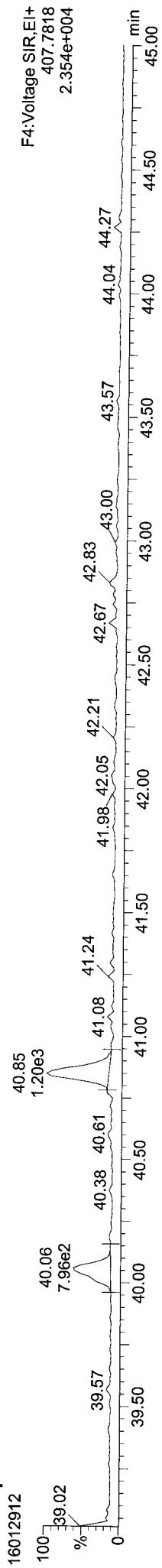
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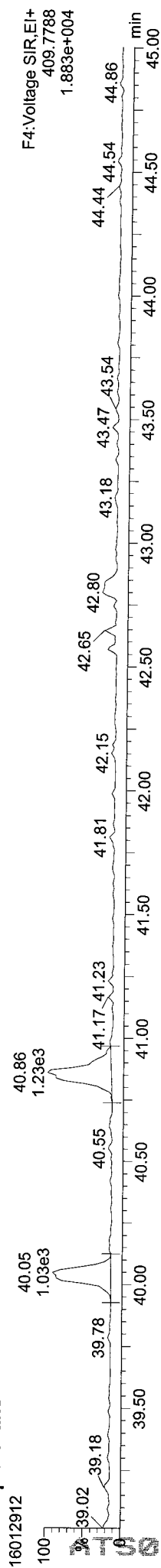
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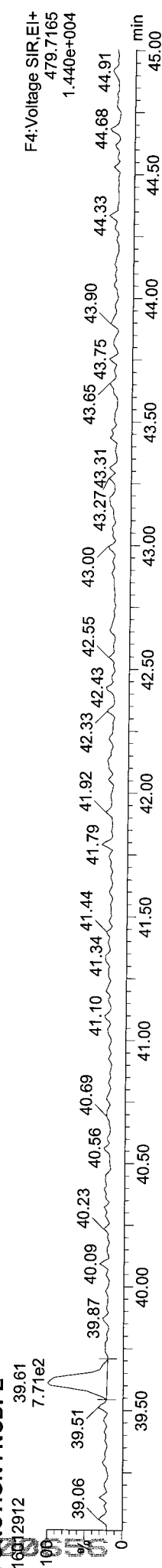
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Total-heptafulurans



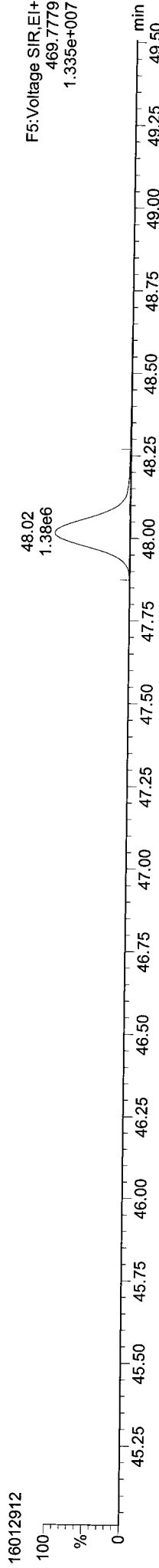
FUNCTION4 NCDPE



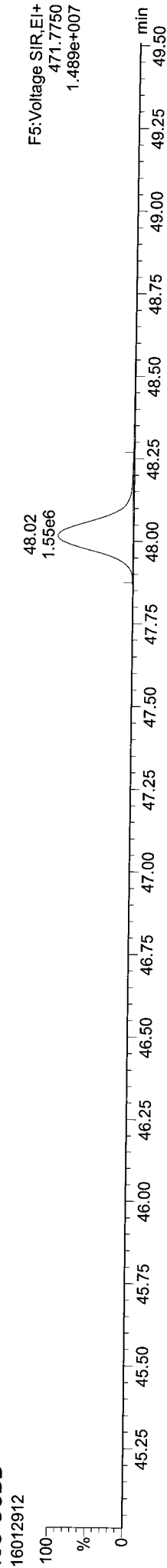
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
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ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

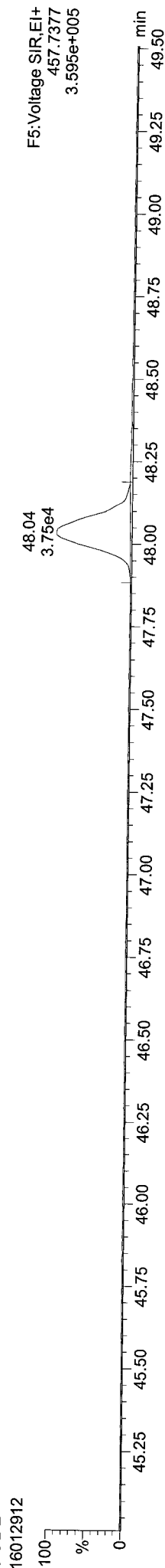
13C-OCDD



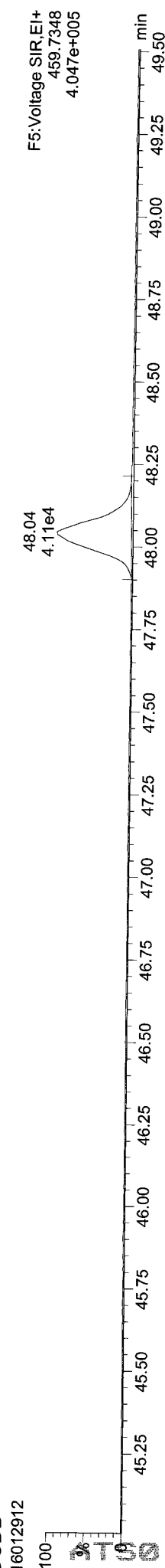
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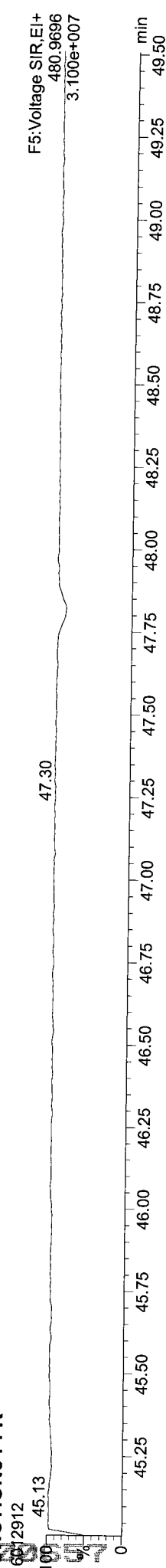
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OCDD

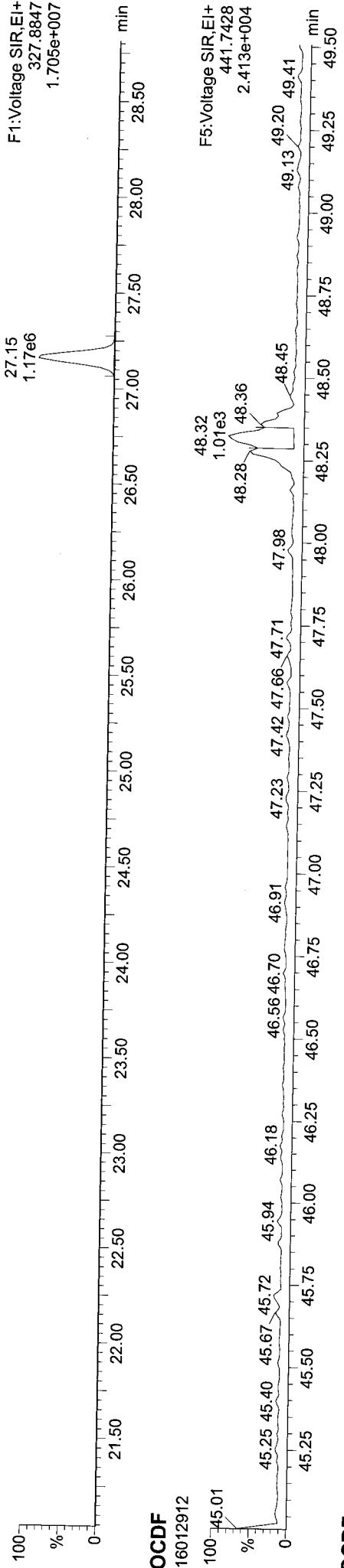


FUNCTION5 PFK

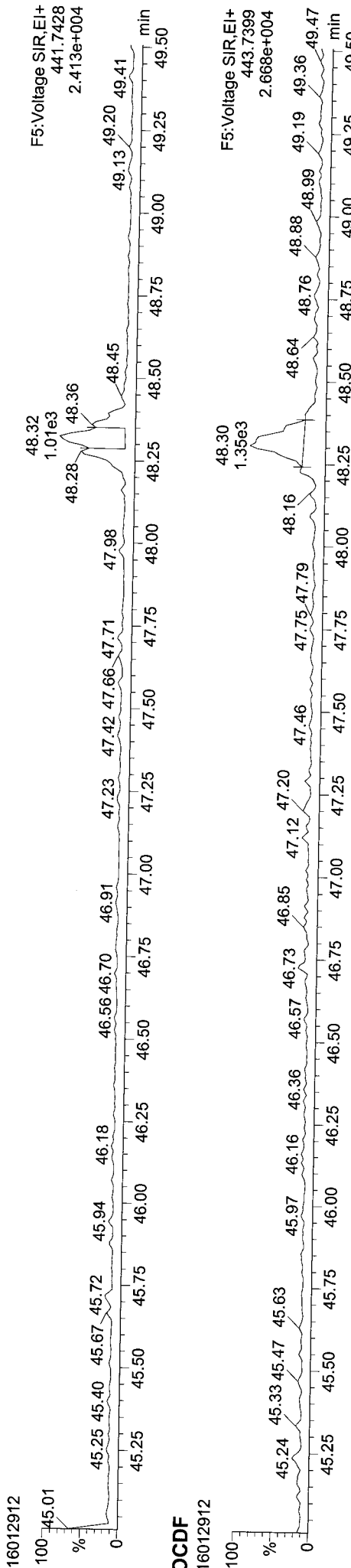


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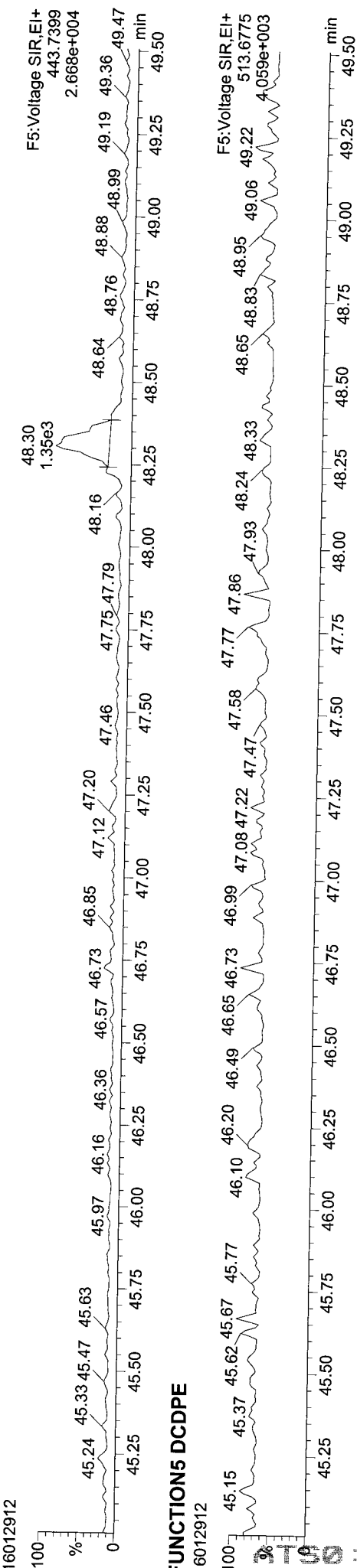
37CL-2378-TCDD
16012912



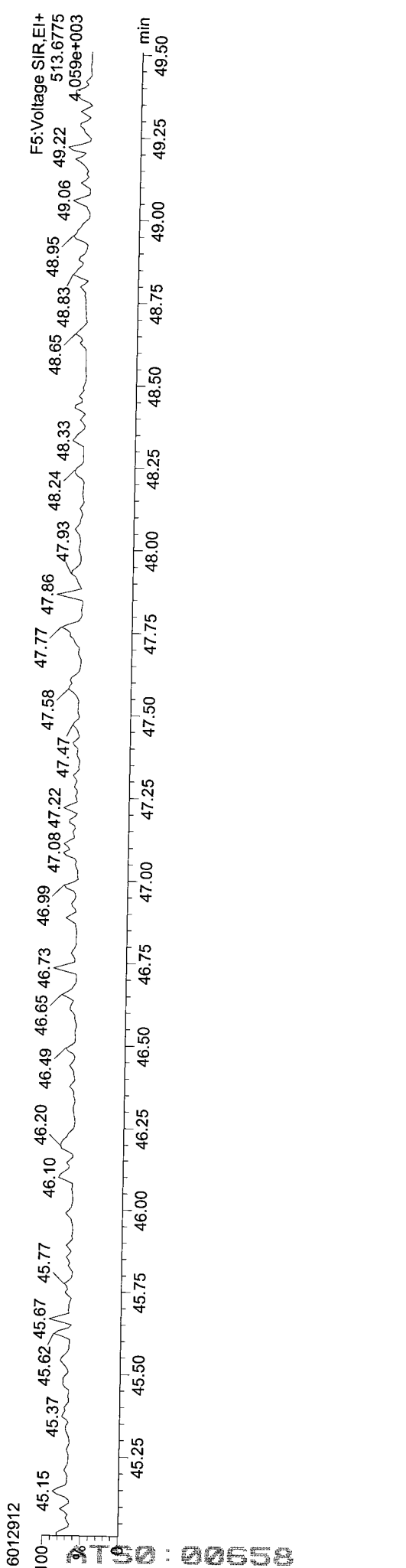
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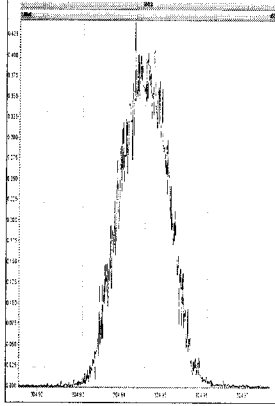
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16012912



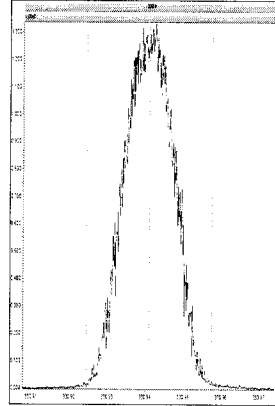
FUNCTION5 DCDPE
16012912



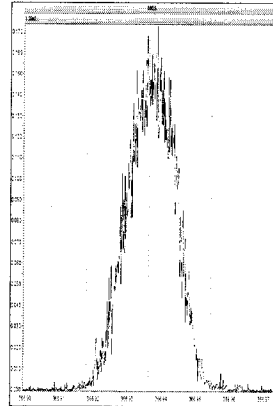
M 304.9824 R 12821



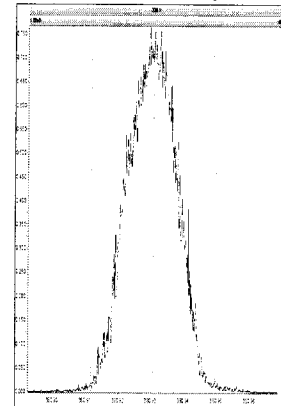
M 330.9792 R 12470



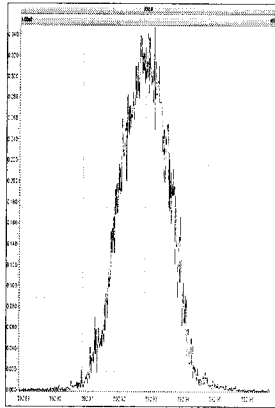
M 366.9792 R 12154



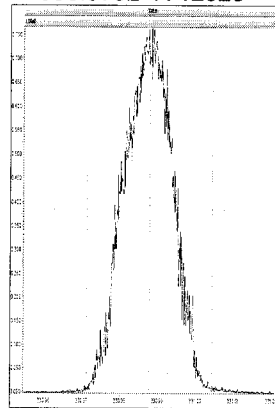
M 380.9760 R 12317



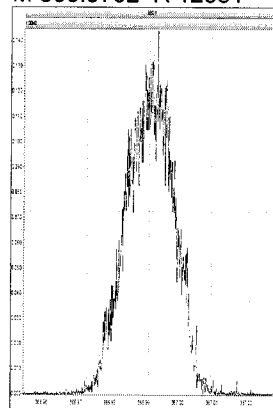
M 392.9760 R 12135



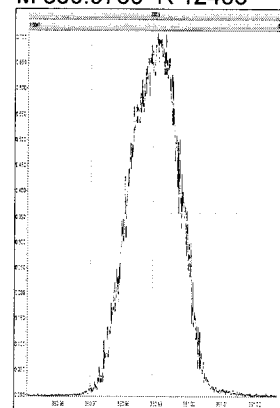
M 330.9792 R 12823



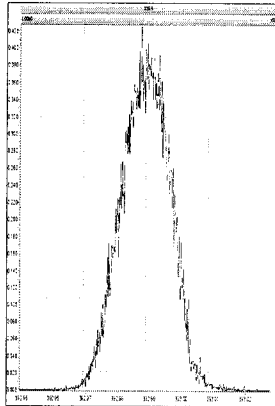
M 366.9792 R 12531



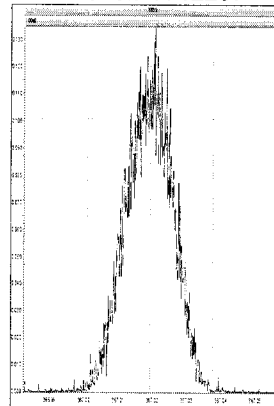
M 380.9760 R 12406



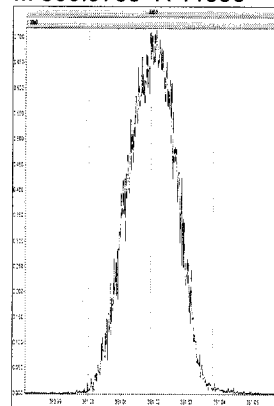
M 392.9760 R 11848



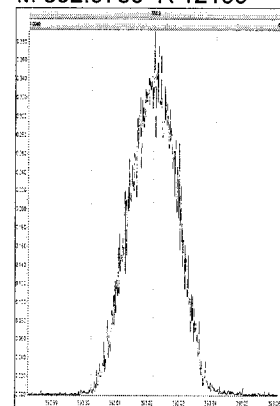
M 366.9792 R 12297



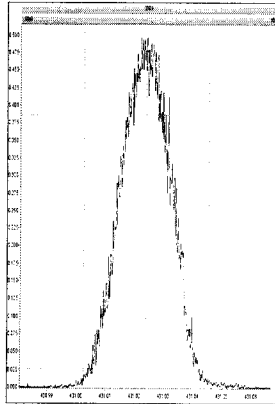
M 380.9760 R 11990



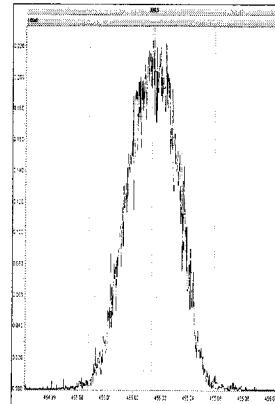
M 392.9760 R 12199



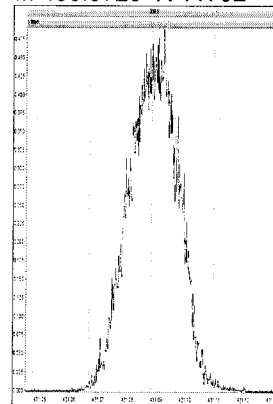
M 430.9728 R 11904



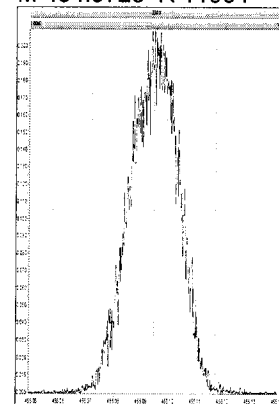
M 454.9728 R 12021



M 430.9728 R 11792

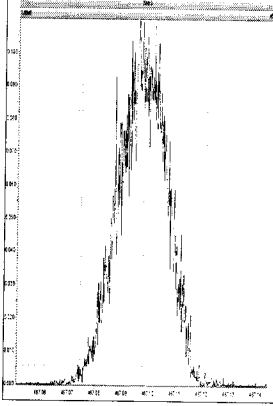


M 454.9728 R 11904

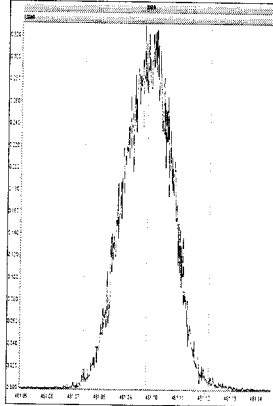


Printed: Friday, January 29, 2016 23:28:03 Pacific Standard Time

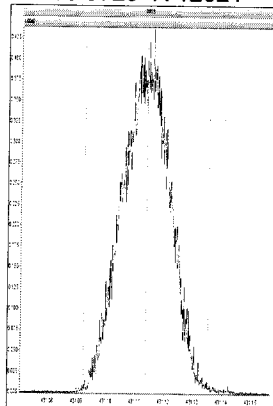
M 466.9728 R 12213



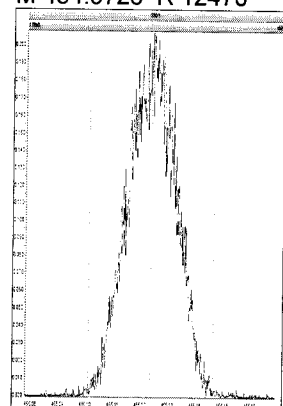
M 480.9696 R 11601



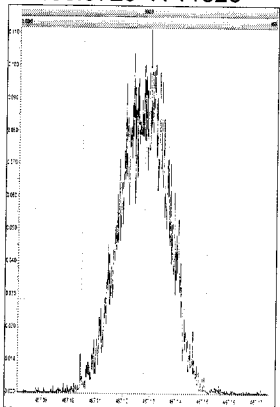
M 430.9728 R 12021



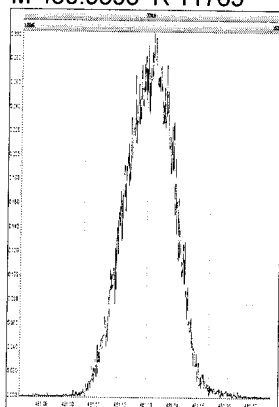
M 454.9728 R 12470



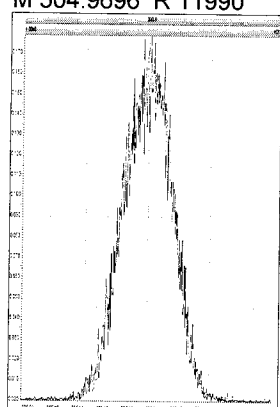
M 466.9728 R 11820



M 480.9696 R 11765



M 504.9696 R 11990



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

Method: P:\DIOXIN8290.pro\MethDB\IDioxin1601293SN.mdb 29 Jan 2016 12:40:27
 Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
2378-TCDF	26.497	1.001	1.45e5	2.10e5	0.827	0.688	0.770	1381	1347	2.10e6	3.02e6	1518.5	NO	10.352	10.352
12378-PeCDF	30.665	1.001	8.65e5	5.97e5	0.824	1.449	1.550	2888	2796	1.25e7	8.62e6	4320.3	NO	53.444	53.444
23478-PeCDF	32.002	1.001	8.62e5	5.95e5	0.850	1.448	1.550	2888	2796	1.29e7	8.87e6	4455.3	NO	52.301	52.301
123478-HxCDF	35.697	1.000	6.95e5	6.01e5	0.973	1.158	1.240	3180	2657	1.04e7	8.79e6	3271.8	NO	52.394	52.394
234678-HxCDF	36.793	1.001	6.80e5	5.91e5	1.025	1.151	1.240	3180	2657	1.01e7	8.80e6	3174.5	NO	52.108	52.108
123678-HxCDF	35.850	1.001	7.07e5	6.19e5	0.953	1.143	1.240	3180	2657	1.02e7	8.88e6	3219.1	NO	52.410	52.410
123789-HxCDF	37.900	1.000	6.06e5	5.22e5	0.956	1.162	1.240	3180	2657	9.41e6	8.06e6	2960.2	NO	49.340	49.340
1234678-HpCDF	40.026	1.001	6.01e5	6.14e5	1.153	0.978	1.050	2181	1961	8.36e6	8.69e6	3832.5	NO	52.243	52.243
1234789-HpCDF	42.789	1.000	4.86e5	5.06e5	1.131	0.959	1.050	2181	1961	5.93e6	6.06e6	2720.3	NO	52.592	52.592
OCDF	48.278	1.006	7.46e5	8.79e5	1.023	0.849	0.890	1312	1575	7.23e6	8.38e6	5511.3	NO	106.005	106.005
2378-TCDD	27.139	1.001	1.19e5	1.56e5	1.023	0.762	0.770	1131	1173	1.68e6	2.19e6	1489.2	NO	10.125	10.125
12378-PeCDD	32.265	1.001	6.16e5	3.98e5	0.939	1.549	1.550	2507	1560	9.19e6	5.92e6	3667.3	NO	51.452	51.452
123478-HxCDD	36.924	1.000	5.55e5	4.48e5	0.963	1.239	1.240	1788	1566	8.32e6	6.78e6	4651.9	NO	50.661	50.661
123678-HxCDD	37.056	1.000	5.50e5	4.39e5	0.894	1.251	1.240	1788	1566	7.94e6	6.43e6	4441.0	NO	51.378	51.378
123789-HxCDD	37.483	1.012	5.58e5	4.49e5	0.900	1.241	1.240	1788	1566	8.49e6	6.76e6	4746.2	NO	53.129	53.129
1234678-HpCDD	41.890	1.001	4.50e5	4.27e5	0.964	1.053	1.050	1984	2632	5.77e6	5.61e6	2908.0	NO	52.140	52.140
OCDD	48.008	1.001	6.95e5	7.91e5	0.969	0.879	0.890	1916	1004	6.80e6	7.71e6	3547.2	NO	102.278	102.278
13C-2378-TCDF	26.482	1.006	1.82e6	2.33e6	1.502	0.780	0.770	6381	3078	2.57e7	3.26e7	4023.0	NO	104.634	104.634
13C-12378-PeCDF	30.643	1.164	2.03e6	1.30e6	1.215	1.564	1.550	2319	2127	2.96e7	1.88e7	12762.1	NO	103.570	103.570
13C-23478-PeCDF	31.980	1.215	2.00e6	1.27e6	1.181	1.572	1.550	2319	2127	2.97e7	1.90e7	12820.3	NO	105.210	105.210
13C-123478-HxCDF	35.686	0.953	8.61e5	1.68e6	1.246	0.512	0.510	2707	2533	1.25e7	2.45e7	4624.5	NO	104.878	104.878
13C-123678-HxCDF	35.828	0.956	9.06e5	1.75e6	1.375	0.518	0.510	2707	2533	1.30e7	2.52e7	4803.6	NO	99.193	99.193
13C-234678-HxCDF	36.771	0.982	8.16e5	1.57e6	1.186	0.521	0.510	2707	2533	1.20e7	2.31e7	4439.8	NO	103.113	103.113
13C-123789-HxCDF	37.889	1.011	8.19e5	1.57e6	1.135	0.522	0.510	2707	2533	1.24e7	2.37e7	4586.9	NO	108.222	108.222
13C-1234678-HpCDF	40.004	1.068	6.22e5	1.39e6	1.020	0.447	0.440	2276	3146	8.76e6	1.95e7	3850.5	NO	101.522	101.522
13C-1234789-HpCDF	42.778	1.142	5.18e5	1.15e6	0.824	0.451	0.440	2276	3146	6.39e6	1.41e7	2809.6	NO	104.020	104.020
13C-1234-TCDD	26.317	0.000	1.17e6	1.47e6	1.000	0.794	0.770	3383	1619	1.65e7	2.05e7	4871.8	NO	100.000	100.000
13C-2378-TCDD	27.124	1.031	1.17e6	1.48e6	0.983	0.792	0.770	3383	1619	1.67e7	2.10e7	4940.3	NO	102.251	102.251
13C-12378-PeCDD	32.243	1.225	1.28e6	8.15e5	0.787	1.572	1.550	1805	1366	1.91e7	1.21e7	10575.3	NO	100.968	100.968
13C-123478-HxCDD	36.913	0.985	1.15e6	9.05e5	1.031	1.273	1.240	2071	1605	1.71e7	1.35e7	8269.9	NO	102.588	102.588
13C-123678-HxCDD	37.045	0.989	1.20e6	9.51e5	1.137	1.267	1.240	2071	1605	1.75e7	1.40e7	8470.0	NO	97.412	97.412
13C-1234678-HpCDD	41.868	1.118	8.90e5	8.55e5	0.892	1.041	1.050	2120	2236	1.16e7	1.10e7	5455.7	NO	100.501	100.501
13C-OCDD	47.982	1.281	1.41e6	1.59e6	0.852	0.885	0.890	1546	2560	1.38e7	1.54e7	8896.3	NO	180.902	180.902

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	EMPC	pg
13C-123789-HxCDD	37.461	0.000	1.09e6	8.61e5	1.000	1.260	1.240	2071	1605	1.66e7	1.32e7	8028.8	NO		100.000
Total-tetrafurans			4.49e5		0.827			1381		6.51e6					32.099
Total-penta1			1.12e6					926		1.61e7					60.935
Total-pentafurans			2.64e6		0.837			2888		3.86e7					161.617
Total-hexafurans			3.48e6		0.977			3180		5.19e7					267.347
Total-heptafurans			1.09e6		1.142			2181		1.43e7					105.048
Total-Furans			9.54e6		0.971			1381		1.35e8					733.049
Total-tetradioxins			6.64e5		1.023			1131		8.14e6					55.857
Total-pentadioxins			2.19e6		0.939			2507		2.79e7					182.301
Total-hexadioxins			2.38e6		0.919			1788		3.55e7					222.534
Total-heptadioxins			9.73e5		0.964			1984		1.32e7					113.089
Total-Dioxins			6.90e6		0.950			1131		9.16e7					676.059
Total-TEQ			1.64e7					1131		2.26e8					1409.108
37CL-2378-TCDD	27.139	1.031	2.94e5		1.091			1745		4.16e6		2384.0			10.201
FUNCTION1 PFK			1.48e6					819277		2.54e7					
FUNCTION2 PFK			3.48e4					144016		1.10e6					0.000
FUNCTION3 PFK			5.79e4					699985		1.69e6					0.000
FUNCTION4 PFK			2.65e5					549601		8.89e6					
FUNCTION5 PFK			6.30e4					378503		2.89e6					
FUNCTION1 HXCDPE			4.33e2					600		1.11e4					0.000
FUNCTION1 HPCDPE			4.25e2					808		8.22e3					0.000
FUNCTION2 HPCDPE			1.20e3					764		1.96e4					0.000
FUNCTION3 OCDPE			1.64e2					654		4.31e3					0.000
FUNCTION4 NCDPE			1.15e2					636		1.76e3					0.000
FUNCTION5 DCDPE			0.00e0					442		0.00e0					0.000

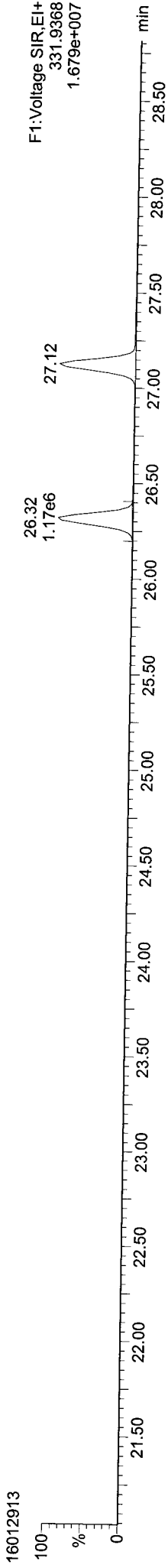
Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

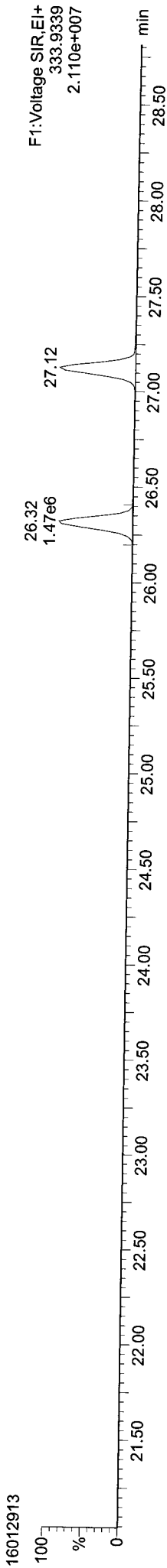
Method: P:\DIOXIN8290.pro\MethDB\IDioxin1601293SN.mdb 29 Jan 2016 12:40:27
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

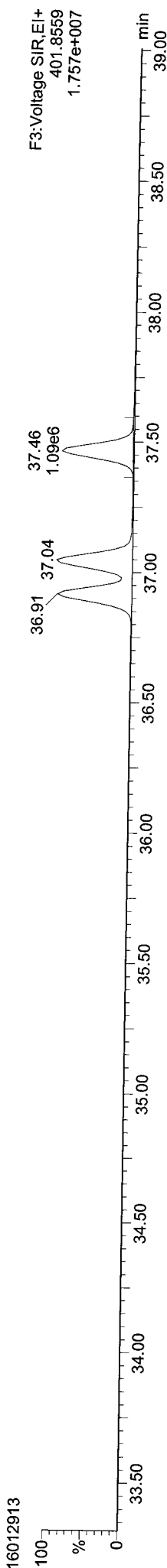
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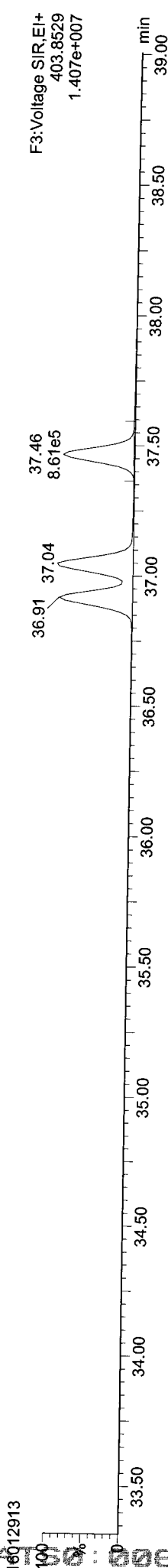
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13C-123789-HxCDD



13C-123789-HxCDD

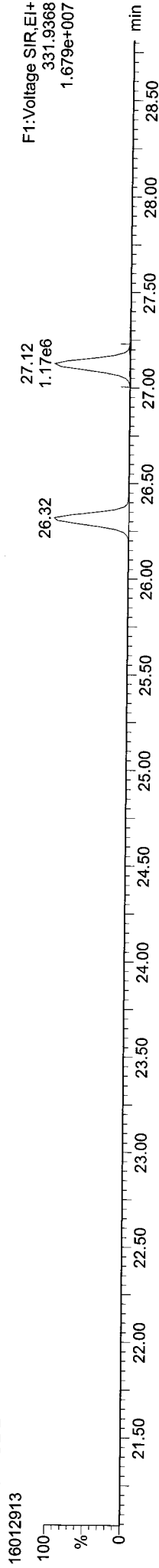


16012913

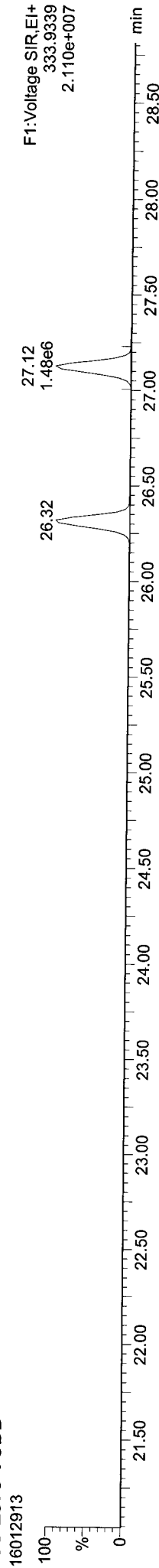
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

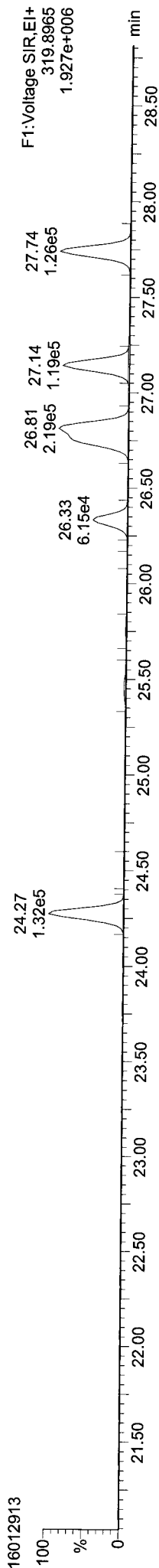
13C-2378-TCDD



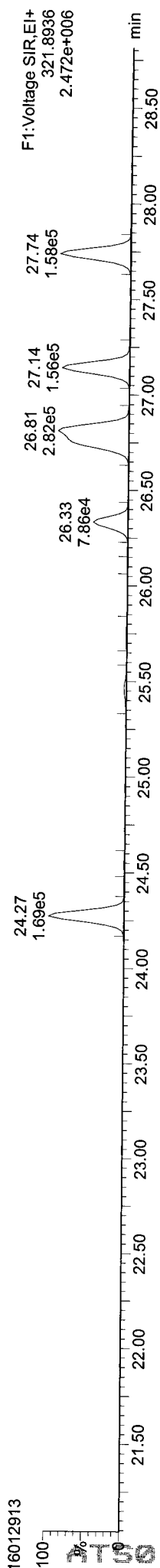
13C-2378-TCDD



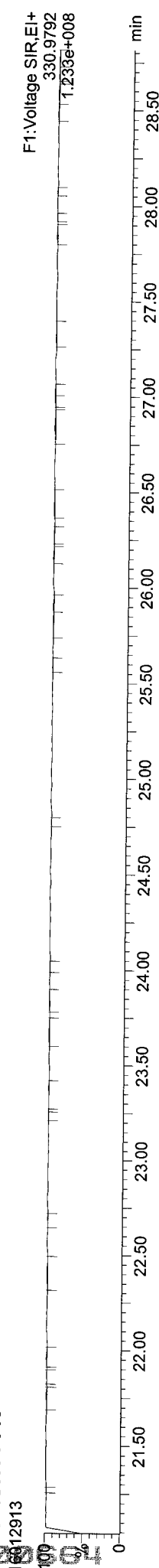
Total-tetradioxins



Total-tetradioxins



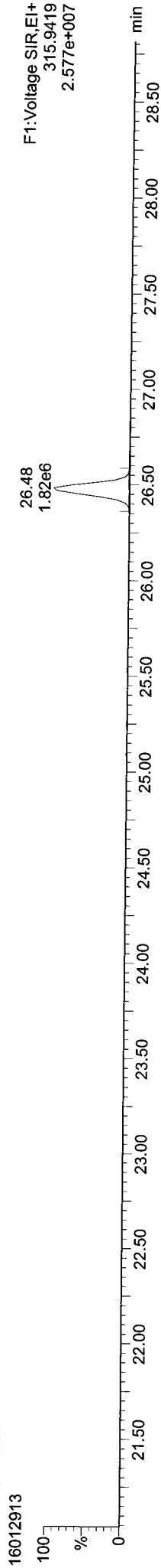
FUNCTION1 PFK



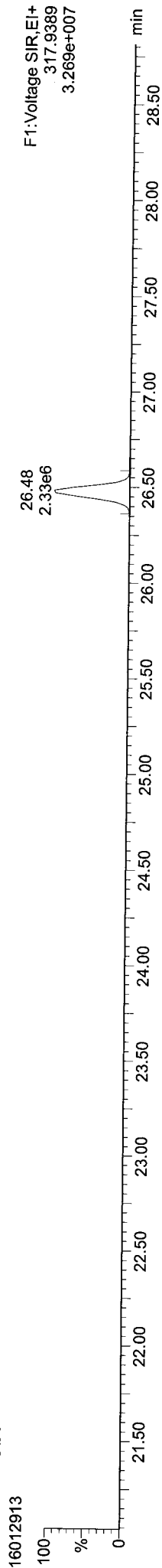
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

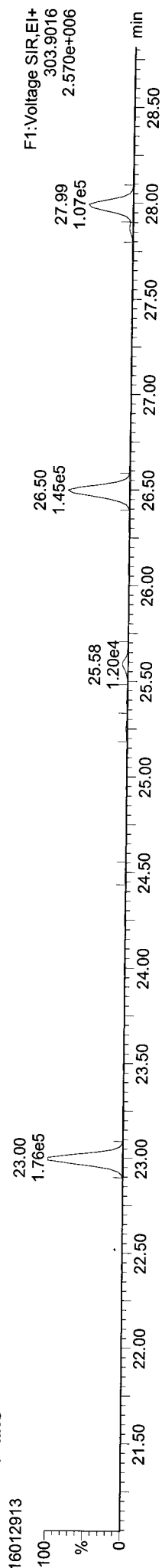
13C-2378-TCDF



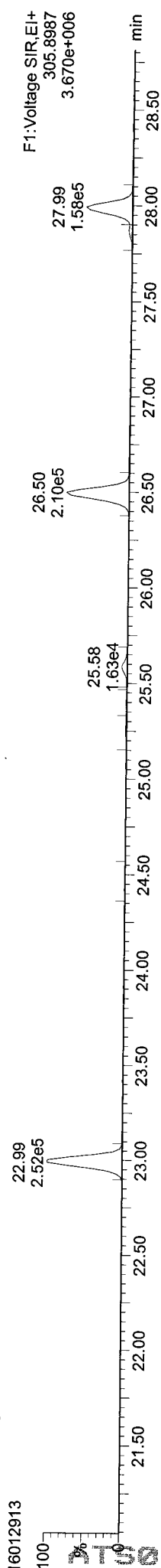
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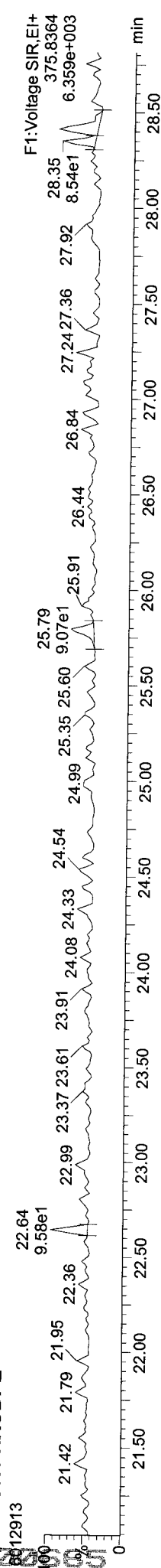
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

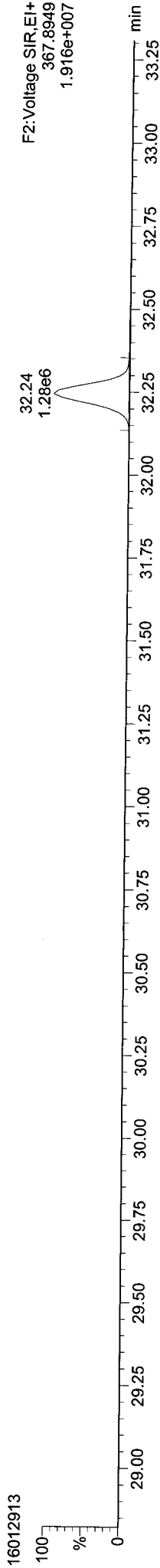


Quantify Sample Report MassLynx V4.1 SCN909

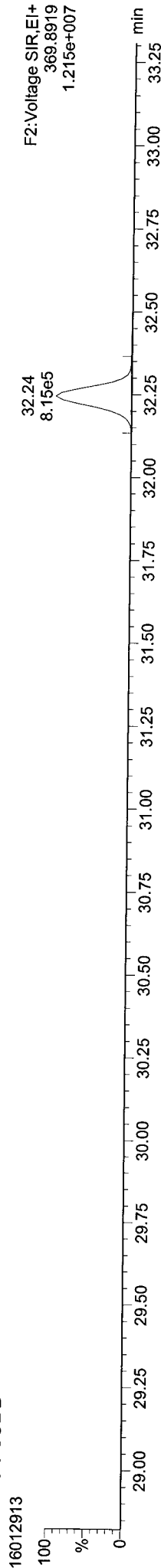
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

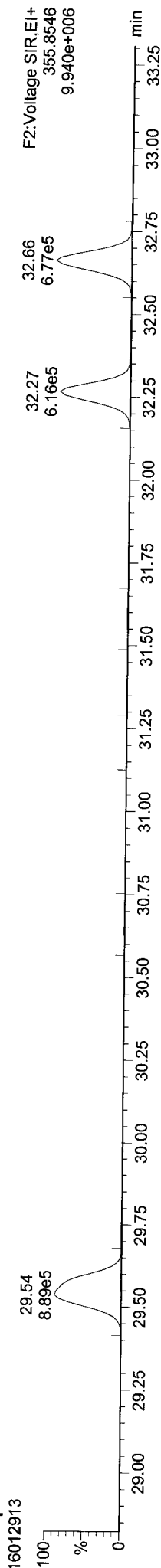
13C-12378-PeCDD



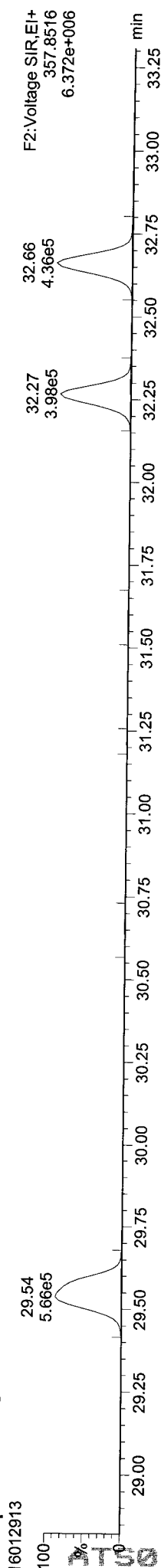
13C-12378-PeCDD



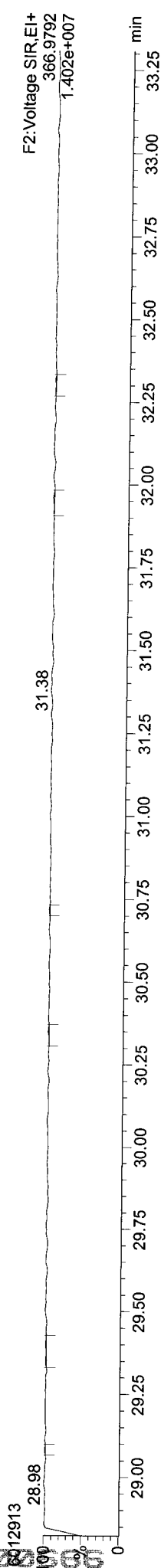
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

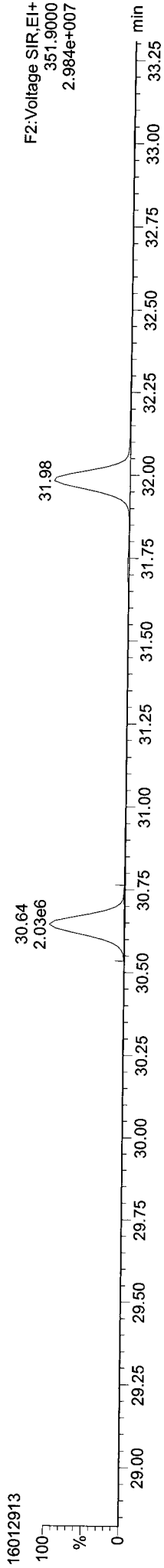


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

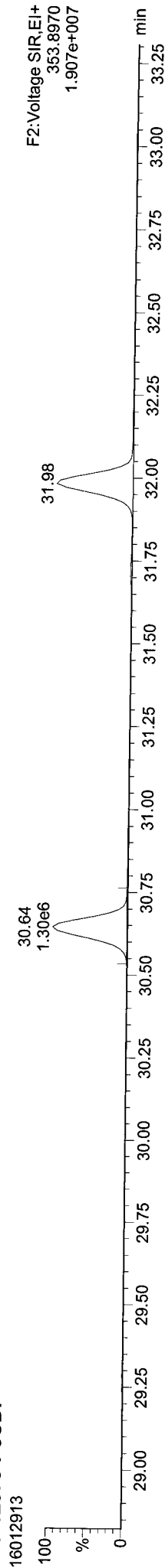
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

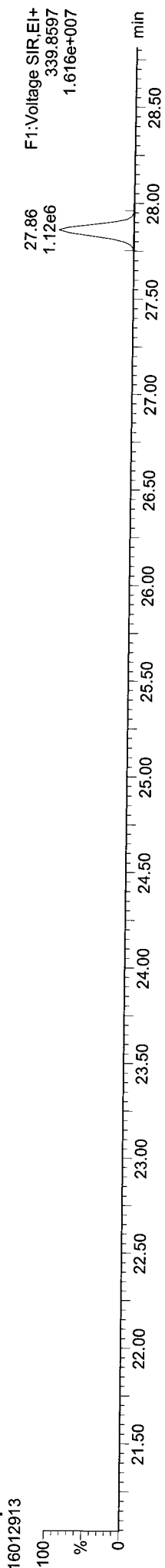
13C-12378-PeCDF



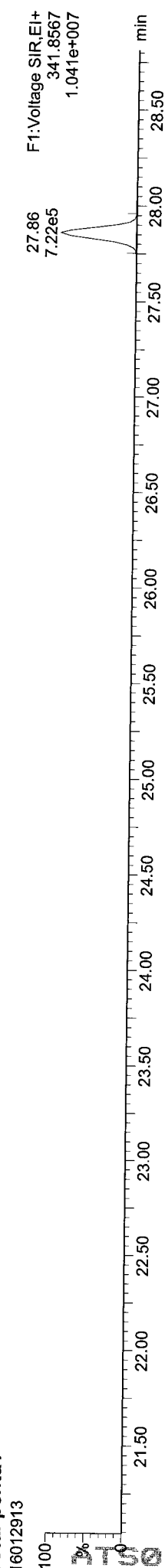
13C-12378-PeCDF



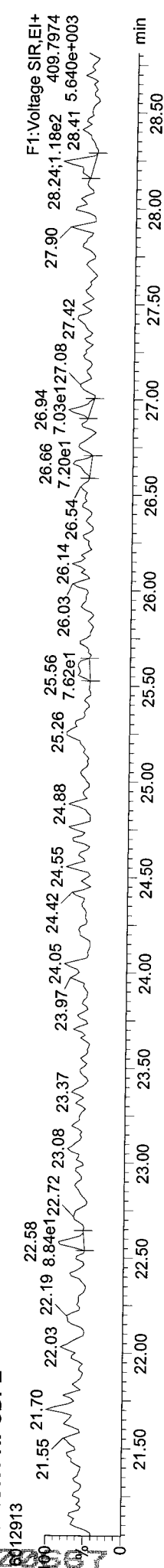
Total-penta1



Total-penta1



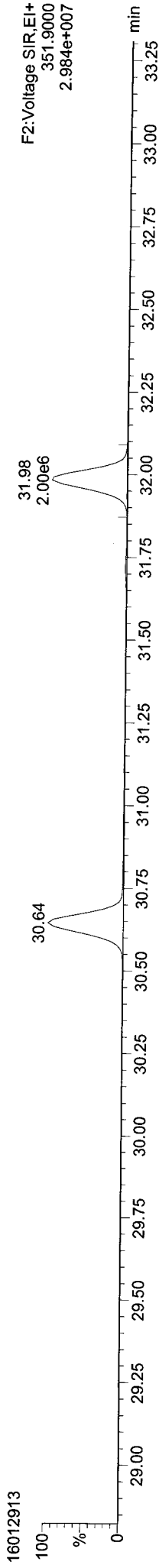
FUNCTION1 HPCDFE



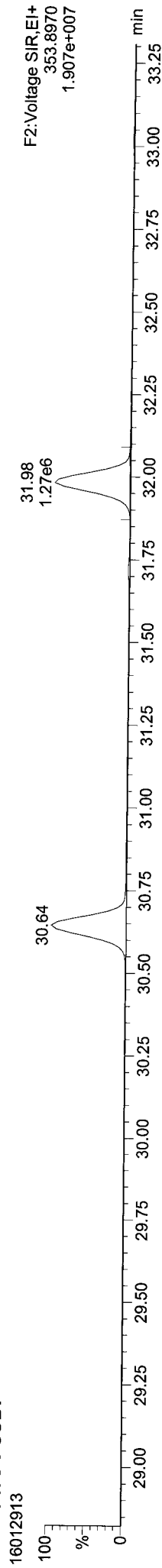
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

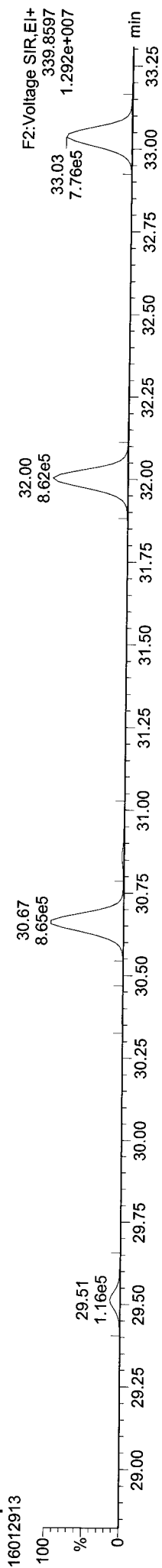
13C-23478-PeCDF



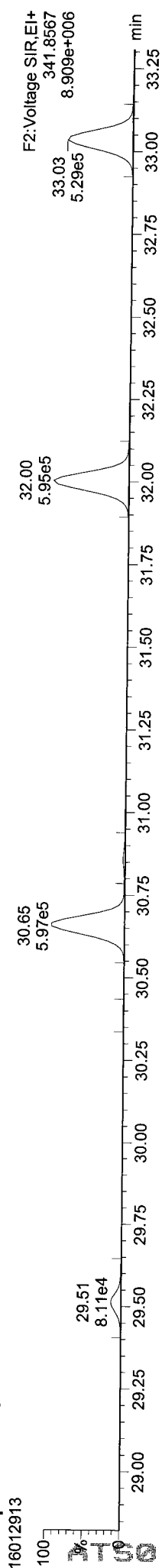
13C-23478-PeCDF



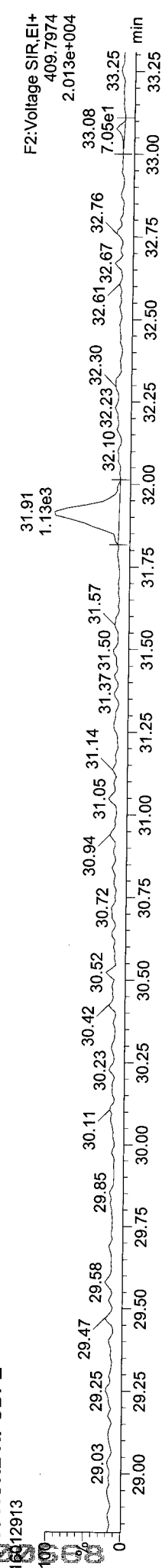
Total-pentafulurans



Total-pentafulurans



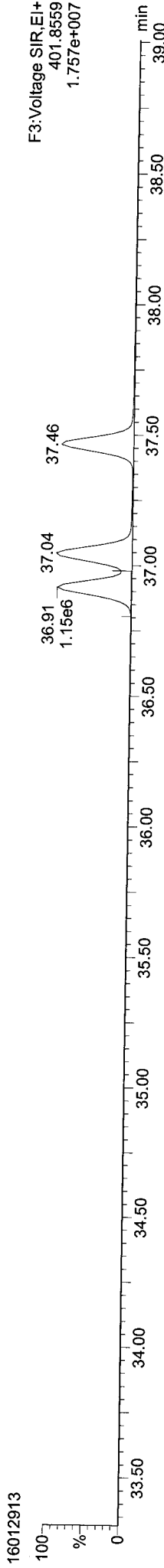
FUNCTION2 HPCDFE



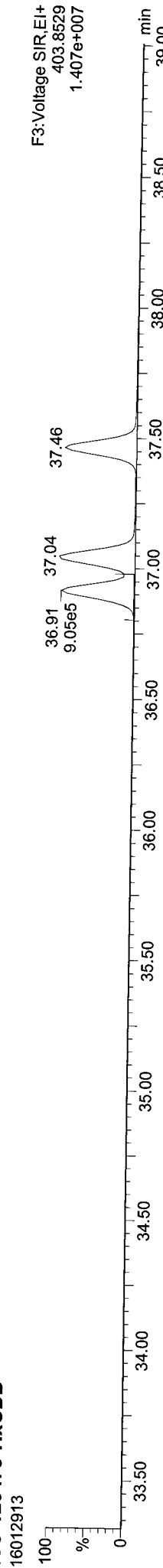
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

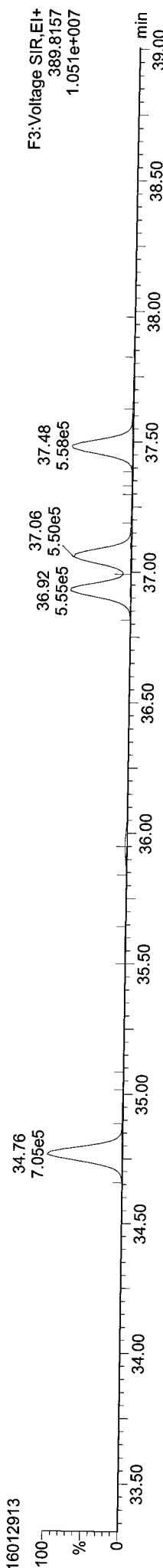
13C-123478-HxCDD



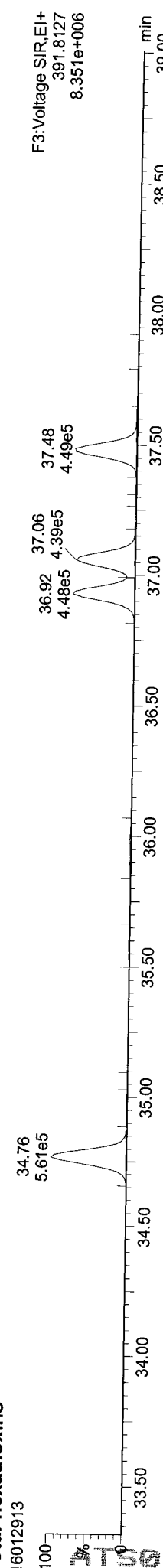
13C-123478-HxCDD



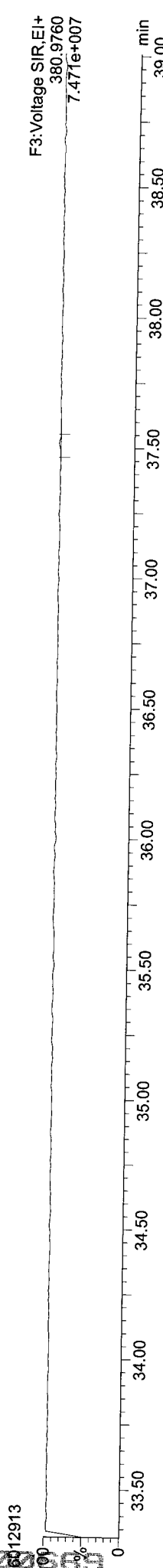
Total-hexadioxins



Total-hexadioxins

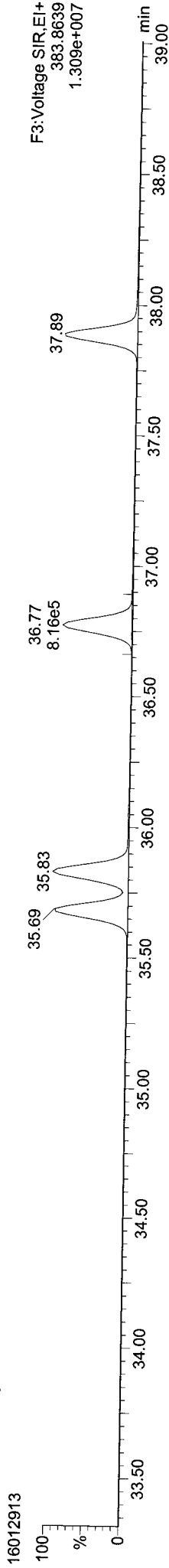


FUNCTION3 PFK

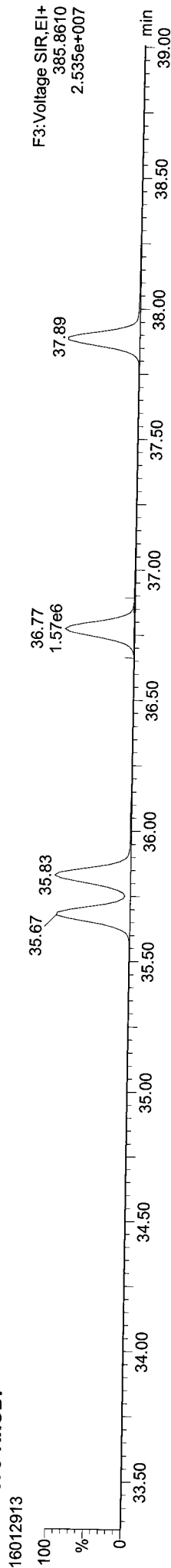


ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

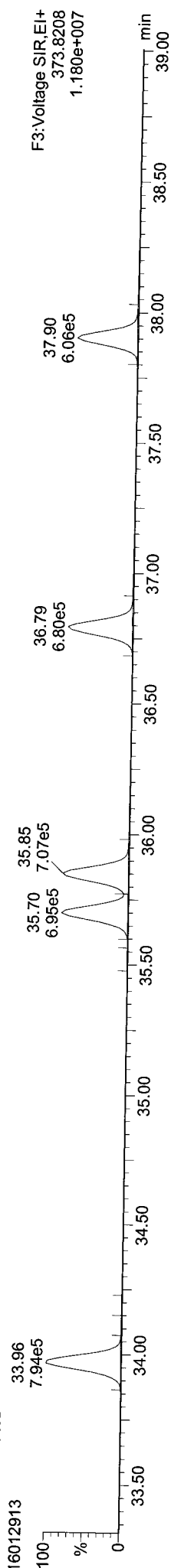
13C-234678-HxCDF



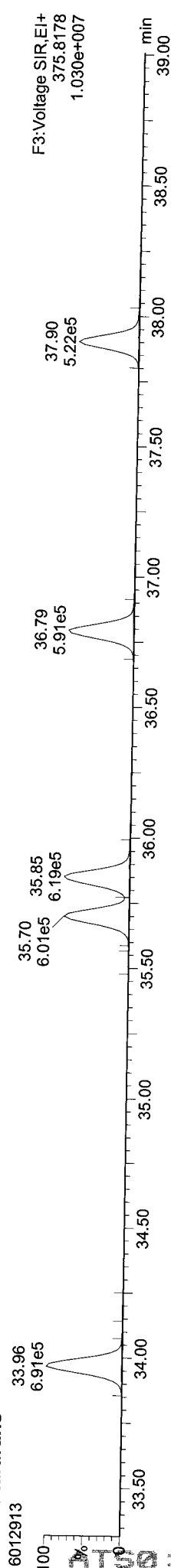
13C-234678-HxCDF



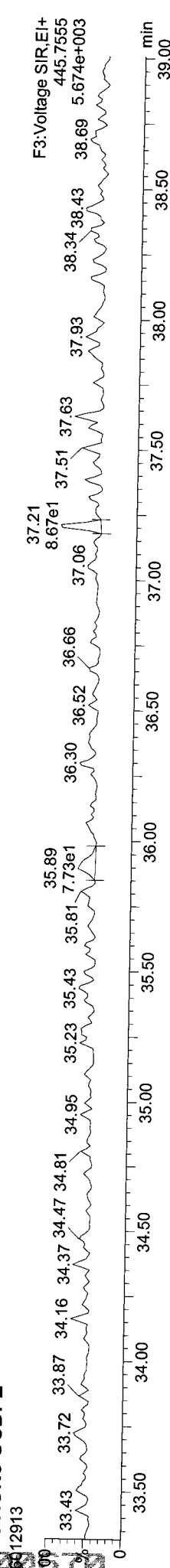
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

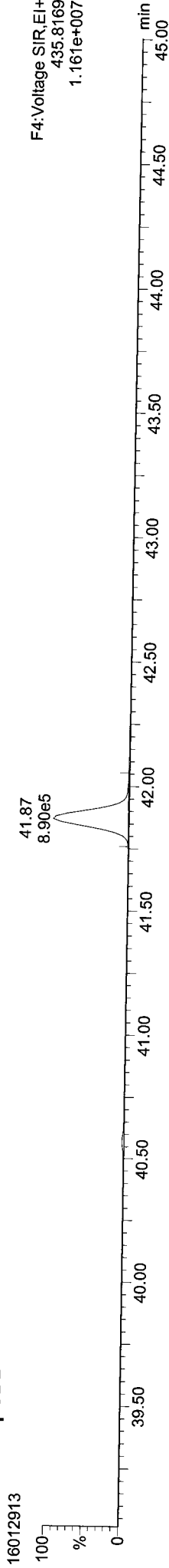


Quantify Sample Report
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

MassLynx V4.1 SCN909

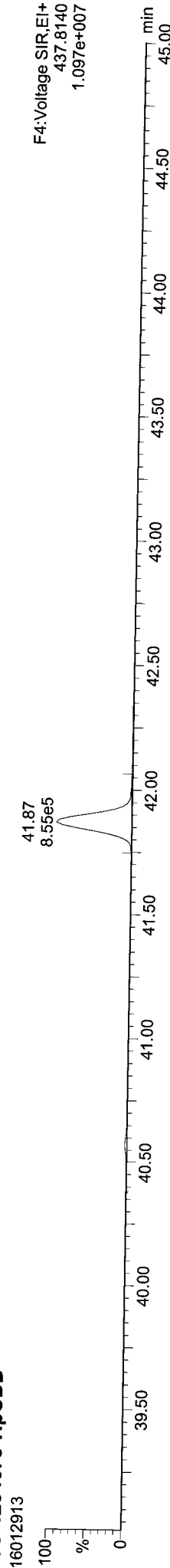
ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



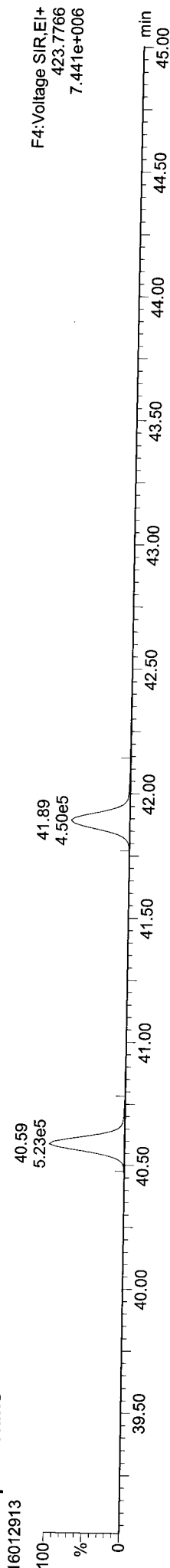
F4: Voltage SIR, EI+
435.8169
1.161e+007

13C-1234678-HpCDD



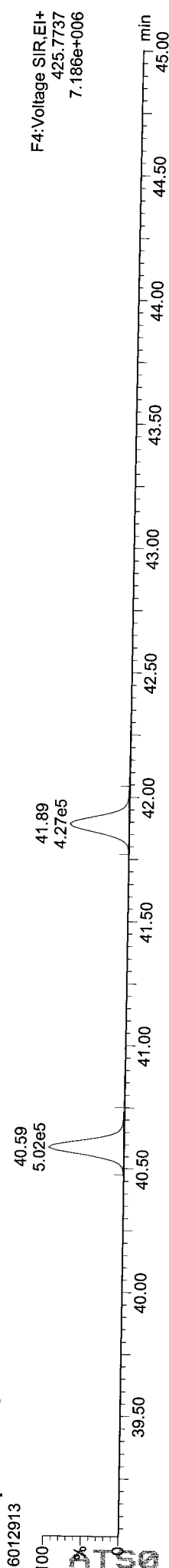
F4: Voltage SIR, EI+
437.8140
1.097e+007

Total-heptadioxins



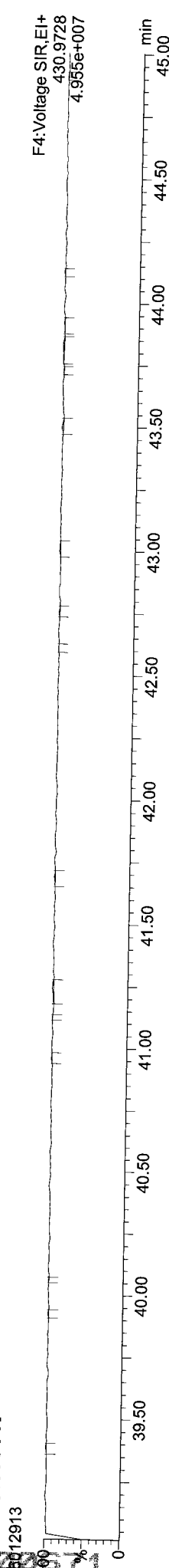
F4: Voltage SIR, EI+
423.7766
7.441e+006

Total-heptadioxins



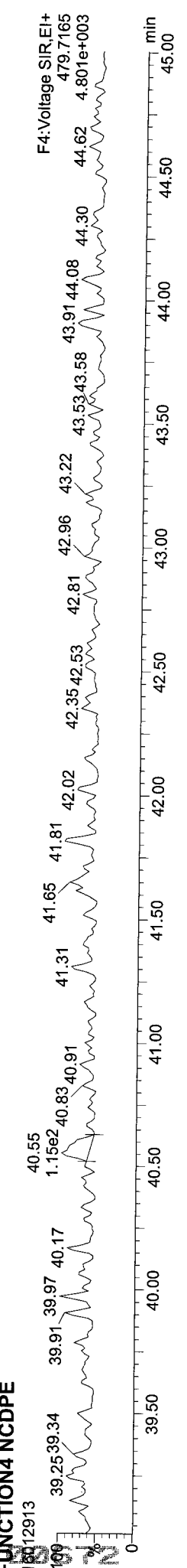
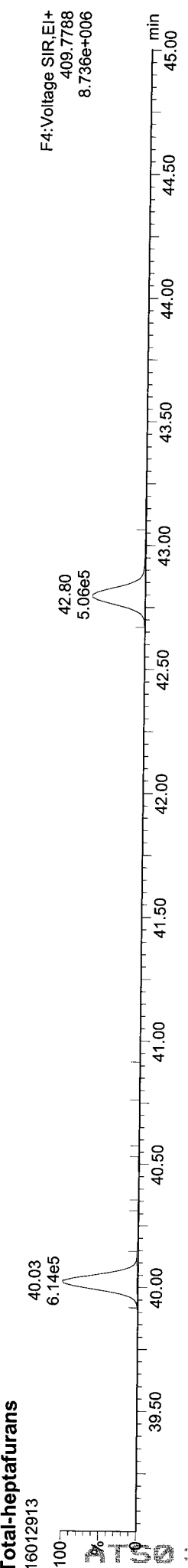
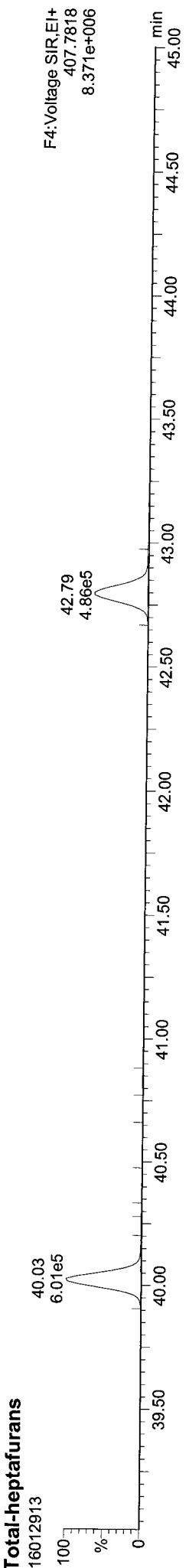
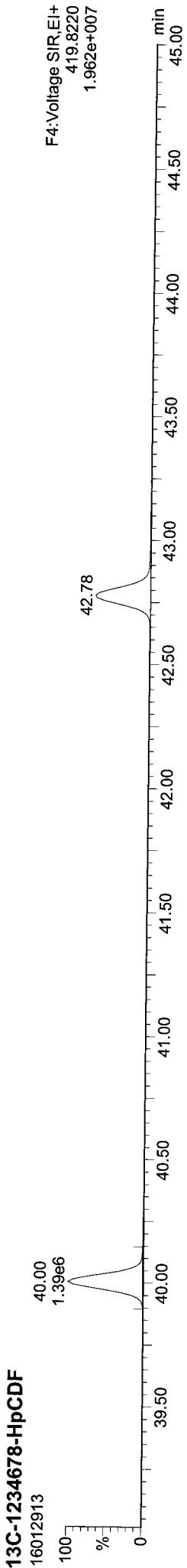
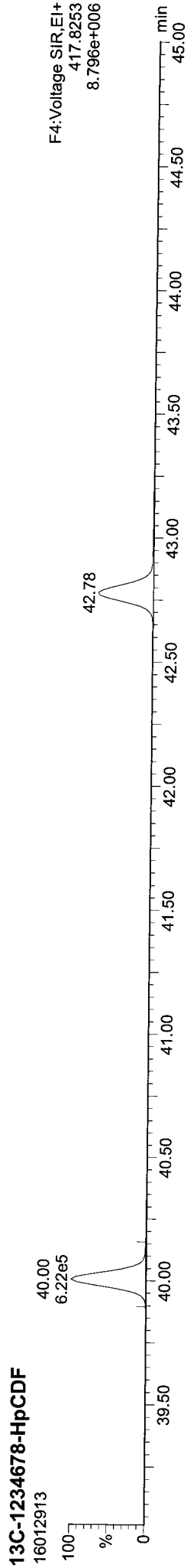
F4: Voltage SIR, EI+
425.7737
7.186e+006

FUNCTION4 PFK

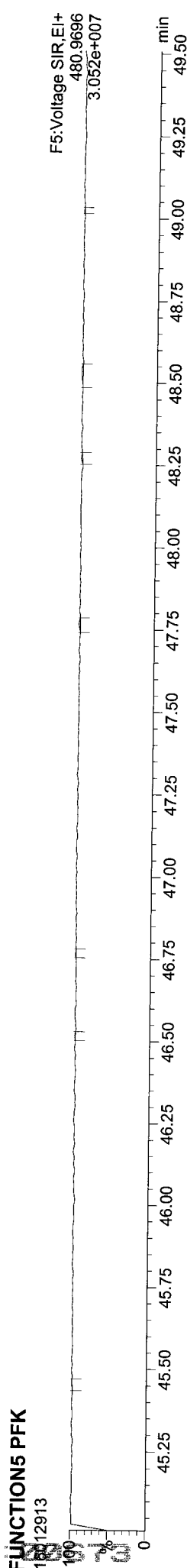
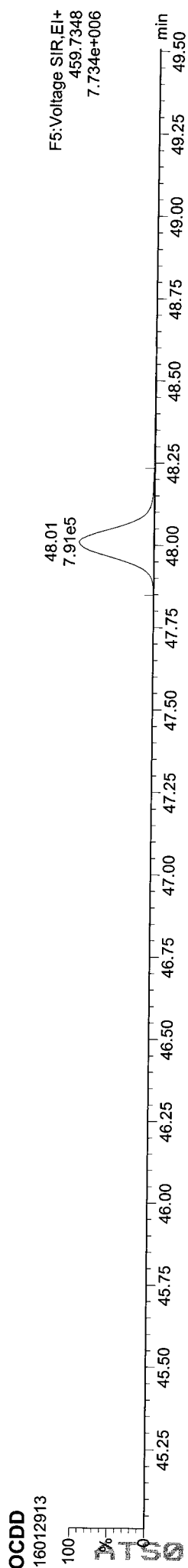
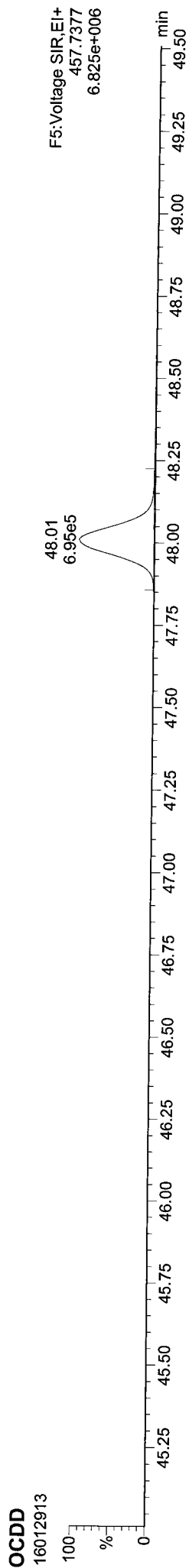
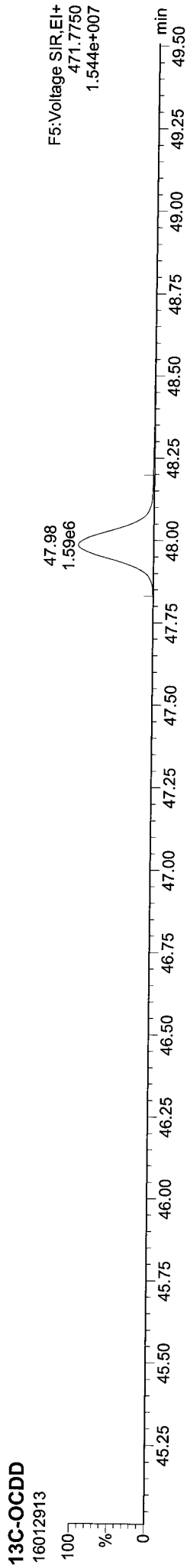
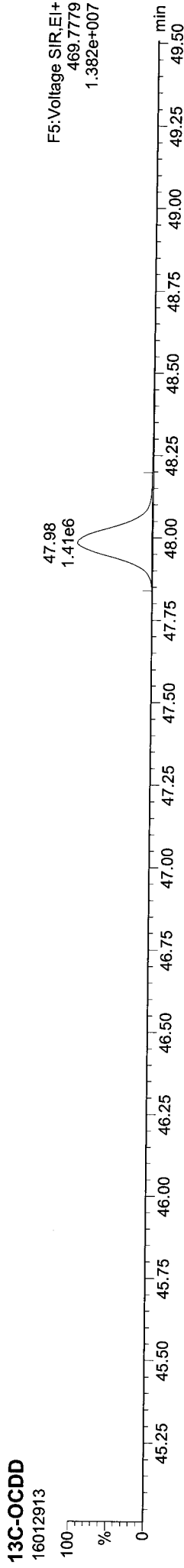


F4: Voltage SIR, EI+
430.9728
4.955e+007

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

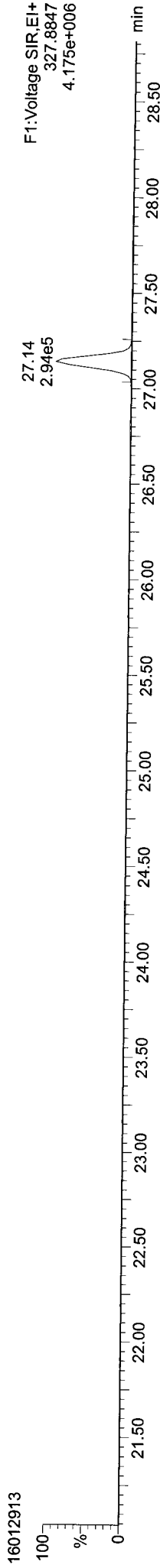


ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

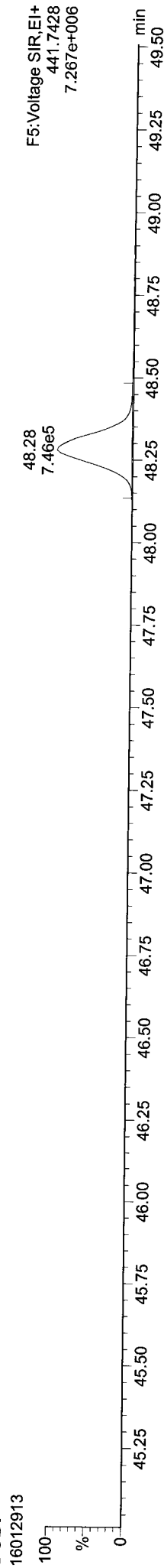


ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

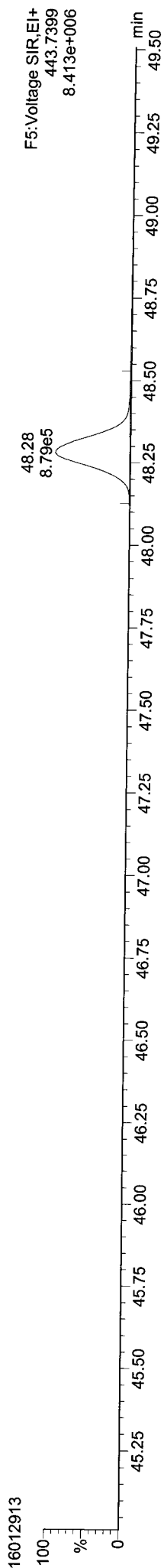
37CL-2378-TCDD



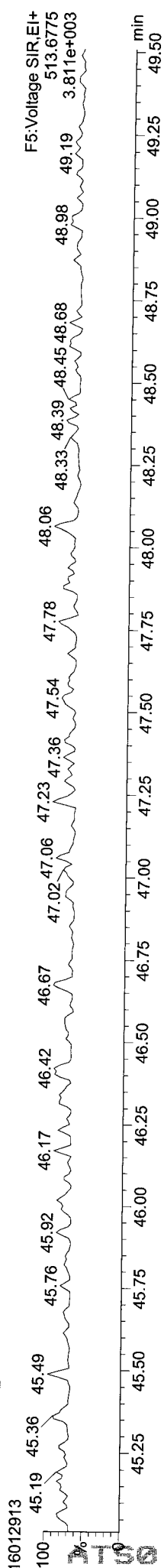
OCDF



OCDF



FUNCTION5 DCDPE



16012913 : 08074

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:47 Pacific Standard Time

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:16012904, Compound:OF, RT:48.385	1
Pre modification peak	Sample:16012904, Compound:OF, RT:48.358	1
Pre modification peak	Sample:16012906, Compound:OF, RT:48.295	3
Pre modification peak	Sample:16012906, Compound:OF, RT:48.295	3
Pre modification peak	Sample:16012906, Compound:PF, RT:29.547	3
Pre modification peak	Sample:16012906, Compound:PF, RT:32.024	3
Pre modification peak	Sample:16012906, Compound:HF, RT:37.899	3
Pre modification peak	Sample:16012906, Compound:HF, RT:37.932	3
Pre modification peak	Sample:16012906, Compound:PD, RT:29.536	3
Pre modification peak	Sample:16012906, Compound:PD, RT:32.287	3
Pre modification peak	Sample:16012906, Compound:HD, RT:34.775	3
Pre modification peak	Sample:16012907, Compound:OF, RT:48.322	4
Pre modification peak	Sample:16012907, Compound:OF, RT:48.340	4
Pre modification peak	Sample:16012907, Compound:TF, RT:24.181	4
Pre modification peak	Sample:16012907, Compound:TF, RT:24.076	4
Pre modification peak	Sample:16012907, Compound:TF, RT:25.197	4
Pre modification peak	Sample:16012907, Compound:PF, RT:29.525	4
Pre modification peak	Sample:16012907, Compound:PF, RT:29.558	4
Pre modification peak	Sample:16012907, Compound:HF, RT:35.060	4
Pre modification peak	Sample:16012907, Compound:HF, RT:35.060	4
Pre modification peak	Sample:16012907, Compound:HF, RT:37.932	4
Pre modification peak	Sample:16012908, Compound:OF, RT:48.305	5
Pre modification peak	Sample:16012908, Compound:OF, RT:48.314	5
Pre modification peak	Sample:16012908, Compound:HD, RT:37.067	5
Pre modification peak	Sample:16012908, Compound:TF, RT:25.182	5
Pre modification peak	Sample:16012908, Compound:PP, RT:27.931	5
Pre modification peak	Sample:16012908, Compound:PF, RT:29.525	5
Pre modification peak	Sample:16012908, Compound:HPE, RT:40.059	5
Pre modification peak	Sample:16012908, Compound:HD, RT:36.124	5
Pre modification peak	Sample:16012908, Compound:HD, RT:35.938	5
Pre modification peak	Sample:16012909, Compound:OF, RT:48.330	6
Pre modification peak	Sample:16012909, Compound:OF, RT:48.321	6
Pre modification peak	Sample:16012909, Compound:TF, RT:25.197	6
Pre modification peak	Sample:16012909, Compound:TF, RT:25.839	6
Pre modification peak	Sample:16012909, Compound:PF, RT:29.294	6
Pre modification peak	Sample:16012909, Compound:HD, RT:35.992	6
Pre modification peak	Sample:16012910, Compound:OF, RT:48.341	7
Pre modification peak	Sample:16012910, Compound:PF, RT:29.547	7
Pre modification peak	Sample:16012910, Compound:TD, RT:26.810	7
Pre modification peak	Sample:16012910, Compound:PD, RT:29.558	7
Pre modification peak	Sample:16012910, Compound:PD, RT:30.687	7
Pre modification peak	Sample:16012910, Compound:HD, RT:35.981	7
Pre modification peak	Sample:16012911, Compound:OF, RT:48.331	8
Pre modification peak	Sample:16012911, Compound:TF, RT:25.152	8
Pre modification peak	Sample:16012911, Compound:TF, RT:26.272	8
Pre modification peak	Sample:16012911, Compound:TF, RT:26.496	8
Pre modification peak	Sample:16012911, Compound:HF, RT:35.049	8
Pre modification peak	Sample:16012911, Compound:HPF, RT:42.842	8
Pre modification peak	Sample:16012911, Compound:TD, RT:26.780	8
Pre modification peak	Sample:16012911, Compound:PD, RT:29.558	8

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time
 Printed: Monday, February 01, 2016 12:09:47 Pacific Standard Time

Event	Details	Sample ID
Pre modification peak	Sample:16012911, Compound:PD, RT:29.569	8
Pre modification peak	Sample:16012911, Compound:PD, RT:30.687	8
Pre modification peak	Sample:16012912, Compound:TF, RT:23.015	9
Pre modification peak	Sample:16012912, Compound:TF, RT:24.046	9
Pre modification peak	Sample:16012912, Compound:TF, RT:24.046	9
Pre modification peak	Sample:16012912, Compound:TF, RT:24.017	9
Pre modification peak	Sample:16012912, Compound:TF, RT:25.227	9
Pre modification peak	Sample:16012912, Compound:TF, RT:25.212	9
Pre modification peak	Sample:16012912, Compound:PD, RT:30.665	9
Pre modification peak	Sample:16012912, Compound:HD, RT:35.981	9
Pre modification peak	Sample:16012912, Compound:HD, RT:37.483	9
Pre modification peak	Sample:16012912, Compound:HD, RT:37.088	9
Peak modified	Sample:16012904, Compound:OF, RT:48.385	1
Peak modified	Sample:16012904, Compound:OF, RT:48.358	1
Peak modified	Sample:16012906, Compound:OF, RT:48.295	3
Peak modified	Sample:16012906, Compound:OF, RT:48.295	3
Peak modified	Sample:16012906, Compound:PF, RT:29.547	3
Peak modified	Sample:16012906, Compound:PF, RT:32.024	3
Peak modified	Sample:16012906, Compound:HF, RT:37.899	3
Peak modified	Sample:16012906, Compound:HF, RT:37.932	3
Peak modified	Sample:16012906, Compound:PD, RT:29.536	3
Peak modified	Sample:16012906, Compound:PD, RT:32.287	3
Peak modified	Sample:16012906, Compound:HD, RT:34.775	3
Peak modified	Sample:16012907, Compound:OF, RT:48.322	4
Peak modified	Sample:16012907, Compound:OF, RT:48.340	4
Peak modified	Sample:16012907, Compound:TF, RT:24.181	4
Peak modified	Sample:16012907, Compound:TF, RT:24.076	4
Peak modified	Sample:16012907, Compound:TF, RT:25.197	4
Peak modified	Sample:16012907, Compound:PF, RT:29.525	4
Peak modified	Sample:16012907, Compound:PF, RT:29.558	4
Peak modified	Sample:16012907, Compound:HF, RT:35.060	4
Peak modified	Sample:16012907, Compound:HF, RT:35.060	4
Peak modified	Sample:16012907, Compound:HF, RT:37.932	4
Peak modified	Sample:16012908, Compound:OF, RT:48.305	5
Peak modified	Sample:16012908, Compound:OF, RT:48.314	5
Peak modified	Sample:16012908, Compound:HD, RT:37.067	5
Peak modified	Sample:16012908, Compound:TF, RT:25.182	5
Peak modified	Sample:16012908, Compound:PP, RT:27.931	5
Peak modified	Sample:16012908, Compound:PF, RT:29.525	5
Peak modified	Sample:16012908, Compound:HPF, RT:40.059	5
Peak modified	Sample:16012908, Compound:HD, RT:36.124	5
Peak modified	Sample:16012908, Compound:HD, RT:35.938	5
Peak modified	Sample:16012909, Compound:OF, RT:48.330	6
Peak modified	Sample:16012909, Compound:OF, RT:48.321	6
Peak modified	Sample:16012909, Compound:TF, RT:25.197	6
Peak modified	Sample:16012909, Compound:TF, RT:25.839	6
Peak modified	Sample:16012909, Compound:PF, RT:29.294	6
Peak modified	Sample:16012909, Compound:HD, RT:35.992	6
Peak modified	Sample:16012910, Compound:OF, RT:48.341	7
Peak modified	Sample:16012910, Compound:PF, RT:29.547	7
Peak modified	Sample:16012910, Compound:TD, RT:26.810	7
Peak modified	Sample:16012910, Compound:PD, RT:29.558	7
Peak modified	Sample:16012910, Compound:PD, RT:30.687	7

Metals Raw Data
Preparation Bench Sheets and Notes

ARI Job ID: ATS0



Digestion Log

Analyst: MS Date: 1/15/16 Time: 1030
 Matrix: tissue Block ID: 44 Block Temp: 93°C Thermometer: up 45

ARI Sample ID	Btl #	pH<2	Prep Code: <u>FRN</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
<u>APR4 A</u>	<u>1</u>	<u>-</u>	<u>2.579</u>	<u>50.0</u>			<u>Batch</u>
<u>" ADP</u>	<u>1</u>	<u>-</u>	<u>2.583</u>	<u> </u>			<u> </u>
<u>" ASPK</u>	<u>1</u>	<u>-</u>	<u>2.582</u>	<u> </u>			<u> </u>
<u>" MS</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u> </u>			<u> </u>
<u>" MS/SPK</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u> </u>			<u> </u>
<u>ATSØ A</u>	<u>1</u>	<u>-</u>	<u>2.509</u>	<u> </u>			<u> </u>
<u>" B</u>	<u>1</u>	<u>-</u>	<u>2.555</u>	<u> </u>			<u> </u>
<u>" C</u>	<u>1</u>	<u>-</u>	<u>2.577</u>	<u> </u>			<u> </u>
<u>" D</u>	<u>1</u>	<u>-</u>	<u>2.584</u>	<u> </u>			<u> </u>
<u>" E</u>	<u>1</u>	<u>-</u>	<u>2.507</u>	<u> </u>			<u> </u>
<u>" F</u>	<u>1</u>	<u>-</u>	<u>2.577</u>	<u>50.0</u>			<u> </u>
<u>MS 1/15/16</u>							

Chemical/Reagent ID:
 HNO₃: D3791 HCl: - H₂O₂: 02934 Tube Lot #: 1504103

Metals Raw Data
Run Logs, Calibrations, and Raw Data

ARI Job ID: ATS0

Metals Data Review Checklist

Method: (ICP) ICP-MS GFA CVA

Analysis Date: 8/19/16 ~~8/19/12~~ ^{DS}

ICP2	Analyst DS 8/12/16	Peer AN-20-16	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	—	AUG3, AUA6
Matrix Duplicates	✓	—	AUG3
Method Blanks	✓	—	AUG7, AUA6
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	AUG3, AUG7, AUA6



IEC Date: 11/5/16

Analysis Date: 11/9/16

Analyst: DO

LR Date: 11/30/15

Page: 1 of 3

All corrections made by analyst unless otherwise noted. DO 11/9/16

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD	EQ181		
		↓	EQ184		
		↓	EQ185		
		↓	EQ186		
		↓	EQ187		
		ICV	DS452		
		ICB	STD		
		CRI	EQ148		
		ICSA	D4338		Sn↑
		ICSAB	D4331		Sn↑
		CCV1	ICV		
		CCB1	STD		
		APR4	MB1		
		ATS	A		
		↓	B		
		↓	C		
		↓	D		
		↓	E		
		APR4	ADUP		✓
		↓	A		✓
		↓	ASPK		✓
		↓	MBISPK		
		CCV2			
		CCB2			End PKG APR4

PI BLANK →



IEC Date: _____ Analysis Date: 1/19/16 Analyst: DO
LR Date: _____ Page: 2 of 3
All corrections made by analyst unless otherwise noted. DO 1/19/16

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		ATZ2 MBZ	DMN		
		↓ MBI	TWC		
		ATZ4 MBI	↓		
		ATZ2 A	↓		
		↓ B	DMN		
		ATS8 F	FRN		
		ATZ4 B	TWC		
		↓ MBISPK	↓		
		ATZ2 MBISPK	↓		
		↓ MBZSPK	DMN		0.887 mL ICP SPK (D3892)
		CCW3			
		CCB3			End PKG ATS8
		AUG7 MBI	SWC	2	Ca 7 RL (0.1423 mg/L) CAF
		AUA6 MB	↓	↓	Ca 7 RL (0.87372 mg/L) CAF
		AUG3 MBI	↓	↓	
		ATZ4 ADUP	TWC		
		↓ A	↓		
		↓ ASPK	↓		
		AUG3 MBISPK	SWC		
		AUA6 MBSPK	↓	↓	
		AUG7 MBISPK	↓	↓	
		CCW4			
		CCB4			
	✓	AUG7 A	SWC	2	RR25x Fe 7240 ug/L

=====
Analysis Begun

Start Time: 1/19/2016 10:02:19 AM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 1/19/2016 8:33:30 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSETMON.sif
 Batch ID:

Results Data Set: I2160119

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
 Sample ID: Calib Blank 1

Autosampler Location: 1
 Date Collected: 1/19/2016 10:02:20 AM
 Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2240847.3	5028.22	0.22%	100.0 %
ScR 361.383	176125.9	1430.68	0.81%	100.0 %
Ag 328.068†	-69.4	41.56	59.91%	[0.00] mg/L
Al 308.215†	46.8	7.62	16.30%	[0.00] mg/L
As 188.979†	-5.2	1.67	32.16%	[0.00] mg/L
B 249.677†	31.1	0.48	1.53%	[0.00] mg/L
Ba 233.527†	4.0	3.61	91.16%	[0.00] mg/L
Be 313.042†	457.6	1.83	0.40%	[0.00] mg/L
Ca 317.933†	56.0	4.66	8.33%	[0.00] mg/L
Cd 228.802†	243.8	2.09	0.86%	[0.00] mg/L
Co 228.616†	-71.6	4.27	5.97%	[0.00] mg/L
Cr 267.716†	-36.3	1.17	3.21%	[0.00] mg/L
Cu 324.752†	3436.9	26.37	0.77%	[0.00] mg/L
Fe 273.955†	5.4	1.59	29.44%	[0.00] mg/L
K 766.490†	434.5	2.28	0.52%	[0.00] mg/L
Mg 279.077†	33.9	4.99	14.73%	[0.00] mg/L
Mn 257.610†	47.4	1.74	3.66%	[0.00] mg/L
Mo 202.031†	35.4	0.89	2.51%	[0.00] mg/L
Na 589.592†	234.3	13.72	5.85%	[0.00] mg/L
Na 330.237†	-98.1	3.19	3.25%	[0.00] mg/L
Ni 231.604†	-11.0	2.21	20.10%	[0.00] mg/L
Pb 220.353†	25.2	5.43	21.54%	[0.00] mg/L
Sb 206.836†	31.5	2.99	9.49%	[0.00] mg/L
Se 196.026†	-28.6	4.10	14.34%	[0.00] mg/L
Si 288.158†	32.2	1.94	6.04%	[0.00] mg/L
Sn 189.927†	-1.3	1.52	114.09%	[0.00] mg/L
Sr 421.552†	109.5	0.60	0.54%	[0.00] mg/L
Ti 334.903†	-28.8	6.56	22.83%	[0.00] mg/L
Tl 190.801†	-18.7	1.77	9.46%	[0.00] mg/L
V 292.402†	140.8	2.70	1.92%	[0.00] mg/L
Zn 206.200†	7.6	1.25	16.41%	[0.00] mg/L

Sequence No.: 2
 Sample ID: STD2

Autosampler Location: 2
 Date Collected: 1/19/2016 10:06:20 AM
 Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	170.0 kPa	0.75 L/min

Mean Data: STD2

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2255797.9	15677.83	0.70%	100.7	%
ScR 361.383	176945.9	211.59	0.12%	100.5	%
Ba 233.527†	23336.9	147.00	0.63%	[10]	mg/L
Cd 228.802†	210186.5	641.19	0.31%	[10]	mg/L
Co 228.616†	208213.0	632.89	0.30%	[10]	mg/L
Cr 267.716†	30190.3	54.68	0.18%	[10]	mg/L
Cu 324.752†	2448421.5	6891.19	0.28%	[10]	mg/L
Mn 257.610†	173324.9	144.56	0.08%	[10]	mg/L
V 292.402†	1143646.6	4371.29	0.38%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 1/19/2016 10:08:05 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: STD3

Analyte	Mean Corrected			RSD	Calib	
	Intensity	Std.Dev.	Conc.		Units	
ScA 357.253	2233959.9	3716.55	0.17%	99.69	%	
ScR 361.383	171881.5	603.06	0.35%	97.59	%	
Ag 328.068†	154084.6	391.45	0.25%	[1.0]	mg/L	
As 188.979†	8422.5	37.62	0.45%	[10]	mg/L	
B 249.677†	37846.1	179.23	0.47%	[10]	mg/L	
Be 313.042†	1514366.8	636.30	0.04%	[5.0]	mg/L	
Na 589.592†	679641.1	1428.52	0.21%	[50]	mg/L	
Ni 231.604†	19483.7	94.03	0.48%	[10]	mg/L	
Pb 220.353†	46331.3	182.78	0.39%	[10]	mg/L	
Se 196.026†	7142.8	26.89	0.38%	[10]	mg/L	
Sr 421.552†	3280754.0	9109.33	0.28%	[5]	mg/L	
Tl 190.801†	10528.1	38.70	0.37%	[10]	mg/L	
Zn 206.200†	16723.6	81.58	0.49%	[10]	mg/L	

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 1/19/2016 10:11:07 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: STD4

Analyte	Mean Corrected			RSD	Calib	
	Intensity	Std.Dev.	Conc.		Units	
ScA 357.253	2262397.7	8771.31	0.39%	101.0	%	
ScR 361.383	178088.7	737.14	0.41%	101.1	%	
Mo 202.031†	103483.6	583.76	0.56%	[10]	mg/L	
Sb 206.836†	18162.8	113.12	0.62%	[10]	mg/L	
Si 288.158†	11309.6	69.94	0.62%	[10]	mg/L	
Sn 189.927†	17935.9	88.23	0.49%	[10]	mg/L	
Ti 334.903†	110170.7	233.68	0.21%	[10]	mg/L	

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 1/19/2016 10:13:21 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2094310.2	6679.04	0.32%	93.46	%
ScR 361.383	175419.1	1518.61	0.87%	99.60	%
Al 308.215†	30868.1	313.85	1.02%	[30]	mg/L
Ca 317.933†	196355.0	1430.33	0.73%	[30]	mg/L
Fe 273.955†	57081.4	545.70	0.96%	[100]	mg/L
K 766.490†	213953.0	788.35	0.37%	[100]	mg/L
Mg 279.077†	22151.4	222.86	1.01%	[30]	mg/L
Na 330.237†	1540.4	8.94	0.58%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	154100	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1029	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	842.2	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	3785	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	2334	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	302900	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	6545	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	21020	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	20820	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3019	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	244800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	570.8	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2140	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	738.4	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	17330	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	10350	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	13590	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	15.40	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1948	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	4633	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1816	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	714.3	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1131	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	1794	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	656200	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	11020	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1053	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	114400	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1672	0.00000	1.000000	

=====
Analysis Begun

Start Time: 1/19/2016 10:15:06 AM
 Logged In Analyst: Metals
 Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 1/19/2016 8:33:30 AM
 Technique: ICP Continuous
 Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSETMON.sif

Batch ID:

Results Data Set: I2160119

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: CV

Autosampler Location: 7

Date Collected: 1/19/2016 10:15:07 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2224427.5	99.27 %	0.222			0.22%
ScR 361.383	173236.0	98.36 %	0.144			0.15%
Ag 328.068†	152528.5	0.9902 mg/L	0.00253	0.9902 mg/L	0.00253	0.26%
Al 308.215†	2113.9	2.022 mg/L	0.0070	2.022 mg/L	0.0070	0.35%
As 188.979†	1684.3	2.022 mg/L	0.0018	2.022 mg/L	0.0018	0.09%
B 249.677†	3746.5	0.9887 mg/L	0.00166	0.9887 mg/L	0.00166	0.17%
Ba 233.527†	2404.6	1.030 mg/L	0.0037	1.030 mg/L	0.0037	0.36%
Be 313.042†	293847.9	0.9700 mg/L	0.00166	0.9700 mg/L	0.00166	0.17%
Ca 317.933†	12771.9	1.950 mg/L	0.0055	1.950 mg/L	0.0055	0.28%
Cd 228.802†	22137.8	1.043 mg/L	0.0025	1.043 mg/L	0.0025	0.24%
Co 228.616†	21017.1	1.008 mg/L	0.0021	1.008 mg/L	0.0021	0.21%
Cr 267.716†	3131.1	1.036 mg/L	0.0027	1.036 mg/L	0.0027	0.26%
Cu 324.752†	242448.2	0.9899 mg/L	0.00229	0.9899 mg/L	0.00229	0.23%
Fe 273.955†	1182.6	2.065 mg/L	0.0162	2.065 mg/L	0.0162	0.78%
K 766.490†	42415.9	19.82 mg/L	0.086	19.82 mg/L	0.086	0.44%
Mg 279.077†	1493.3	2.029 mg/L	0.0087	2.029 mg/L	0.0087	0.43%
Mn 257.610†	16825.6	0.9712 mg/L	0.00545	0.9712 mg/L	0.00545	0.56%
Mo 202.031†	10321.4	0.9974 mg/L	0.00488	0.9974 mg/L	0.00488	0.49%
Na 589.592†	667517.9	49.11 mg/L	0.173	49.11 mg/L	0.173	0.35%
Na 330.237†	796.6	51.64 mg/L	0.309	51.64 mg/L	0.309	0.60%
Ni 231.604†	1934.1	0.9929 mg/L	0.00168	0.9929 mg/L	0.00168	0.17%
Pb 220.353†	9388.1	2.027 mg/L	0.0054	2.027 mg/L	0.0054	0.27%
Sb 206.836†	3770.5	2.073 mg/L	0.0048	2.073 mg/L	0.0048	0.23%
Se 196.026†	1459.2	2.041 mg/L	0.0048	2.041 mg/L	0.0048	0.24%
Si 288.158†	2325.1	2.055 mg/L	0.0174	2.055 mg/L	0.0174	0.85%
Sn 189.927†	1763.4	0.9848 mg/L	0.00554	0.9848 mg/L	0.00554	0.56%
Sr 421.552†	637979.0	0.9723 mg/L	0.00355	0.9723 mg/L	0.00355	0.37%
Ti 334.903†	10819.9	0.9808 mg/L	0.00520	0.9808 mg/L	0.00520	0.53%
Tl 190.801†	2125.2	2.010 mg/L	0.0116	2.010 mg/L	0.0116	0.58%
V 292.402†	115797.5	1.017 mg/L	0.0014	1.017 mg/L	0.0014	0.14%
Zn 206.200†	1645.4	0.9842 mg/L	0.00297	0.9842 mg/L	0.00297	0.30%

Sequence No.: 2
Sample ID: CB

Autosampler Location: 1
Date Collected: 1/19/2016 10:19:09 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 170.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2251710.6	100.5	%	0.19			0.18%
ScR 361.383	177310.8	100.7	%	0.47			0.46%
Ag 328.068†	31.9	0.00021	mg/L	0.000182	0.00021	mg/L	0.000182 88.16%
Al 308.215†	1.6	0.00149	mg/L	0.004337	0.00149	mg/L	0.004337 290.63%
As 188.979†	1.3	0.00156	mg/L	0.000670	0.00156	mg/L	0.000670 43.00%
B 249.677†	17.4	0.00461	mg/L	0.001172	0.00461	mg/L	0.001172 25.42%
Ba 233.527†	0.1	0.00006	mg/L	0.000510	0.00006	mg/L	0.000510 847.45%
Be 313.042†	49.8	0.00016	mg/L	0.000036	0.00016	mg/L	0.000036 22.02%
Ca 317.933†	2.2	0.00033	mg/L	0.000390	0.00033	mg/L	0.000390 118.68%
Cd 228.802†	2.7	0.00012	mg/L	0.000149	0.00012	mg/L	0.000149 124.33%
Co 228.616†	1.5	0.00007	mg/L	0.000169	0.00007	mg/L	0.000169 235.52%
Cr 267.716†	0.8	0.00027	mg/L	0.000820	0.00027	mg/L	0.000820 304.47%
Cu 324.752†	42.3	0.00017	mg/L	0.000069	0.00017	mg/L	0.000069 40.04%
Fe 273.955†	1.3	0.00222	mg/L	0.002850	0.00222	mg/L	0.002850 128.61%
K 766.490†	44.4	0.02077	mg/L	0.020133	0.02077	mg/L	0.020133 96.94%
Mg 279.077†	-1.6	-0.00218	mg/L	0.004160	-0.00218	mg/L	0.004160 190.92%
Mn 257.610†	5.1	0.00030	mg/L	0.000030	0.00030	mg/L	0.000030 10.24%
Mo 202.031†	23.9	0.00231	mg/L	0.000804	0.00231	mg/L	0.000804 34.80%
Na 589.592†	199.3	0.01466	mg/L	0.004107	0.01466	mg/L	0.004107 28.01%
Na 330.237†	2.4	0.1590	mg/L	0.07320	0.1590	mg/L	0.07320 46.04%
Ni 231.604†	-1.7	-0.00088	mg/L	0.001764	-0.00088	mg/L	0.001764 199.79%
Pb 220.353†	8.8	0.00191	mg/L	0.001424	0.00191	mg/L	0.001424 74.62%
Sb 206.836†	13.5	0.00746	mg/L	0.002214	0.00746	mg/L	0.002214 29.70%
Se 196.026†	1.2	0.00164	mg/L	0.000686	0.00164	mg/L	0.000686 41.94%
Si 288.158†	-0.9	-0.00082	mg/L	0.002689	-0.00082	mg/L	0.002689 326.72%
Sn 189.927†	0.5	0.00028	mg/L	0.001293	0.00028	mg/L	0.001293 468.23%
Sr 421.552†	148.4	0.00023	mg/L	0.000036	0.00023	mg/L	0.000036 15.88%
Ti 334.903†	3.9	0.00035	mg/L	0.000536	0.00035	mg/L	0.000536 151.75%
Tl 190.801†	4.4	0.00414	mg/L	0.003413	0.00414	mg/L	0.003413 82.45%
V 292.402†	10.3	0.00009	mg/L	0.000186	0.00009	mg/L	0.000186 202.34%
Zn 206.200†	0.4	0.00022	mg/L	0.000619	0.00022	mg/L	0.000619 278.21%

Sequence No.: 3

Sample ID: CRI

Dilution: 1.000000X

Autosampler Location: 301

Date Collected: 1/19/2016 10:23:09 AM

Data Type: Original

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	2262903.6	101.0	%	0.90			0.89%
ScR 361.383	177775.9	100.9	%	0.08			0.08%
Ag 328.068†	466.5	0.00303	mg/L	0.000091	0.00303	mg/L	0.000091 3.02%
Al 308.215†	51.4	0.04979	mg/L	0.002693	0.04979	mg/L	0.002693 5.41%
As 188.979†	45.0	0.05356	mg/L	0.002447	0.05356	mg/L	0.002447 4.57%
B 249.677†	84.2	0.02224	mg/L	0.001354	0.02224	mg/L	0.001354 6.09%
Ba 233.527†	4.9	0.00209	mg/L	0.000987	0.00209	mg/L	0.000987 47.27%
Be 313.042†	327.0	0.00108	mg/L	0.000044	0.00108	mg/L	0.000044 4.06%
Ca 317.933†	351.3	0.05365	mg/L	0.000366	0.05365	mg/L	0.000366 0.68%
Cd 228.802†	50.5	0.00211	mg/L	0.000081	0.00211	mg/L	0.000081 3.85%
Co 228.616†	65.6	0.00314	mg/L	0.000071	0.00314	mg/L	0.000071 2.26%
Cr 267.716†	18.2	0.00601	mg/L	0.000486	0.00601	mg/L	0.000486 8.08%
Cu 324.752†	538.2	0.00220	mg/L	0.000134	0.00220	mg/L	0.000134 6.12%
Fe 273.955†	29.4	0.05154	mg/L	0.001591	0.05154	mg/L	0.001591 3.09%
K 766.490†	1093.0	0.5109	mg/L	0.00625	0.5109	mg/L	0.00625 1.22%
Mg 279.077†	36.0	0.04870	mg/L	0.001914	0.04870	mg/L	0.001914 3.93%
Mn 257.610†	18.4	0.00107	mg/L	0.000209	0.00107	mg/L	0.000209 19.61%
Mo 202.031†	57.1	0.00551	mg/L	0.000227	0.00551	mg/L	0.000227 4.11%
Na 589.592†	6759.0	0.4972	mg/L	0.00402	0.4972	mg/L	0.00402 0.81%
Na 330.237†	9.0	0.5815	mg/L	0.22193	0.5815	mg/L	0.22193 38.16%
Ni 231.604†	19.5	0.00999	mg/L	0.001542	0.00999	mg/L	0.001542 15.43%
Pb 220.353†	102.4	0.02211	mg/L	0.000295	0.02211	mg/L	0.000295 1.33%
Sb 206.836†	98.9	0.05447	mg/L	0.001106	0.05447	mg/L	0.001106 2.03%
Se 196.026†	35.3	0.04946	mg/L	0.003932	0.04946	mg/L	0.003932 7.95%
Si 288.158†	67.6	0.05971	mg/L	0.002926	0.05971	mg/L	0.002926 4.90%
Sn 189.927†	19.4	0.01088	mg/L	0.001352	0.01088	mg/L	0.001352 12.43%
Sr 421.552†	690.4	0.00105	mg/L	0.000031	0.00105	mg/L	0.000031 2.97%
Ti 334.903†	53.8	0.00487	mg/L	0.000338	0.00487	mg/L	0.000338 6.94%
Tl 190.801†	56.4	0.05353	mg/L	0.004685	0.05353	mg/L	0.004685 8.75%
V 292.402†	347.2	0.00306	mg/L	0.000030	0.00306	mg/L	0.000030 0.99%
Zn 206.200†	17.7	0.01059	mg/L	0.000349	0.01059	mg/L	0.000349 3.29%

Sequence No.: 4

Autosampler Location: 302

Sample ID: ICSA

Date Collected: 1/19/2016 10:27:10 AM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	2145501.4	95.75	%	0.978			1.02%
ScR 361.383	170936.1	97.05	%	0.110			0.11%
Ag 328.068†	-150.6	-0.00097	mg/L	0.000111	-0.00097	mg/L	0.000111 11.35%
Al 308.215†	207591.5	201.8	mg/L	0.65	201.8	mg/L	0.65 0.32%
As 188.979†	34.1	0.02729	mg/L	0.003618	0.02729	mg/L	0.003618 13.25%
B 249.677†	4.8	0.00127	mg/L	0.004025	0.00127	mg/L	0.004025 317.45%
Ba 233.527†	79.6	0.00286	mg/L	0.001149	0.00286	mg/L	0.001149 40.24%
Be 313.042†	28.6	0.00009	mg/L	0.000019	0.00009	mg/L	0.000019 20.67%
Ca 317.933†	656812.9	100.4	mg/L	0.23	100.4	mg/L	0.23 0.23%
Cd 228.802†	12.9	-0.00118	mg/L	0.000128	-0.00118	mg/L	0.000128 10.89%
Co 228.616†	61.4	0.00293	mg/L	0.000245	0.00293	mg/L	0.000245 8.35%
Cr 267.716†	11.6	0.00011	mg/L	0.001036	0.00011	mg/L	0.001036 934.74%
Cu 324.752†	-1556.5	0.00176	mg/L	0.000251	0.00176	mg/L	0.000251 14.24%
Fe 273.955†	112313.2	196.8	mg/L	0.82	196.8	mg/L	0.82 0.42%
K 766.490†	59.8	0.02794	mg/L	0.003286	0.02794	mg/L	0.003286 11.76%
Mg 279.077†	77946.0	105.4	mg/L	0.27	105.4	mg/L	0.27 0.26%
Mn 257.610†	12.0	-0.00109	mg/L	0.000253	-0.00109	mg/L	0.000253 23.18%
Mo 202.031†	56.6	0.00363	mg/L	0.000638	0.00363	mg/L	0.000638 17.57%
Na 589.592†	42.5	0.00312	mg/L	0.001788	0.00312	mg/L	0.001788 57.25%
Na 330.237†	3.9	0.2572	mg/L	0.32655	0.2572	mg/L	0.32655 126.95%
Ni 231.604†	2.6	0.00137	mg/L	0.000396	0.00137	mg/L	0.000396 28.97%
Pb 220.353†	-160.3	0.00232	mg/L	0.002052	0.00232	mg/L	0.002052 88.48%
Sb 206.836†	25.3	0.01357	mg/L	0.003313	0.01357	mg/L	0.003313 24.42%
Se 196.026†	40.7	0.01685	mg/L	0.003607	0.01685	mg/L	0.003607 21.41%
Si 288.158†	-13.1	-0.01133	mg/L	0.008142	-0.01133	mg/L	0.008142 71.87%
Sn 189.927†	-77.4	-0.02091	mg/L	0.000623	-0.02091	mg/L	0.000623 2.98%
Sr 421.552†	4227.0	0.00644	mg/L	0.000048	0.00644	mg/L	0.000048 0.74%
Ti 334.903†	120.1	0.00413	mg/L	0.000618	0.00413	mg/L	0.000618 14.96%
Tl 190.801†	-30.2	-0.00625	mg/L	0.006140	-0.00625	mg/L	0.006140 98.25%
V 292.402†	1332.0	0.00312	mg/L	0.000172	0.00312	mg/L	0.000172 5.52%
Zn 206.200†	9.2	0.00551	mg/L	0.000568	0.00551	mg/L	0.000568 10.31%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 303
Date Collected: 1/19/2016 10:31:25 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ICSAB

Analyte	Mean Corrected			Std.Dev.	Sample		
	Intensity	Conc. Units	Calib. Units		Conc. Units	Std.Dev.	RSD
ScA 357.253	2139218.9	95.46 %	%	0.109			0.11%
ScR 361.383	170934.8	97.05 %	%	0.193			0.20%
Ag 328.068†	165336.4	1.073 mg/L	mg/L	0.0094	1.073 mg/L	0.0094	0.88%
Al 308.215†	205783.1	200.0 mg/L	mg/L	0.41	200.0 mg/L	0.41	0.20%
As 188.979†	885.0	1.037 mg/L	mg/L	0.0104	1.037 mg/L	0.0104	1.00%
B 249.677†	11.6	0.00070 mg/L	mg/L	0.001427	0.00070 mg/L	0.001427	202.64%
Ba 233.527†	2442.0	1.015 mg/L	mg/L	0.0048	1.015 mg/L	0.0048	0.47%
Be 313.042†	297508.6	0.9821 mg/L	mg/L	0.00059	0.9821 mg/L	0.00059	0.06%
Ca 317.933†	652132.4	99.64 mg/L	mg/L	0.156	99.64 mg/L	0.156	0.16%
Cd 228.802†	21915.3	1.036 mg/L	mg/L	0.0058	1.036 mg/L	0.0058	0.56%
Co 228.616†	19899.6	0.9555 mg/L	mg/L	0.00654	0.9555 mg/L	0.00654	0.68%
Cr 267.716†	3078.8	1.016 mg/L	mg/L	0.0019	1.016 mg/L	0.0019	0.19%
Cu 324.752†	254893.6	1.049 mg/L	mg/L	0.0007	1.049 mg/L	0.0007	0.07%
Fe 273.955†	112405.1	196.9 mg/L	mg/L	0.56	196.9 mg/L	0.56	0.28%
K 766.490†	15.5	0.00726 mg/L	mg/L	0.006161	0.00726 mg/L	0.006161	84.88%
Mg 279.077†	73705.0	99.68 mg/L	mg/L	0.195	99.68 mg/L	0.195	0.20%
Mn 257.610†	16774.0	0.9662 mg/L	mg/L	0.00436	0.9662 mg/L	0.00436	0.45%
Mo 202.031†	48.9	0.00291 mg/L	mg/L	0.000735	0.00291 mg/L	0.000735	25.30%
Na 589.592†	-30.8	-0.00226 mg/L	mg/L	0.001284	-0.00226 mg/L	0.001284	56.71%
Na 330.237†	11.7	0.4637 mg/L	mg/L	0.19446	0.4637 mg/L	0.19446	41.94%
Ni 231.604†	1855.3	0.9524 mg/L	mg/L	0.00335	0.9524 mg/L	0.00335	0.35%
Pb 220.353†	4475.5	1.003 mg/L	mg/L	0.0029	1.003 mg/L	0.0029	0.28%
Sb 206.836†	1903.8	1.037 mg/L	mg/L	0.0063	1.037 mg/L	0.0063	0.60%
Se 196.026†	758.0	1.021 mg/L	mg/L	0.0068	1.021 mg/L	0.0068	0.67%
Si 288.158†	-19.0	-0.01290 mg/L	mg/L	0.001866	-0.01290 mg/L	0.001866	14.47%
Sn 189.927†	-79.7	-0.02177 mg/L	mg/L	0.000362	-0.02177 mg/L	0.000362	1.66%
Sr 421.552†	4145.0	0.00632 mg/L	mg/L	0.000015	0.00632 mg/L	0.000015	0.24%
Ti 334.903†	121.5	0.00411 mg/L	mg/L	0.000558	0.00411 mg/L	0.000558	13.59%
Tl 190.801†	987.4	0.9503 mg/L	mg/L	0.00407	0.9503 mg/L	0.00407	0.43%
V 292.402†	114020.7	0.9928 mg/L	mg/L	0.00862	0.9928 mg/L	0.00862	0.87%
Zn 206.200†	1567.5	0.9375 mg/L	mg/L	0.00436	0.9375 mg/L	0.00436	0.46%

Sequence No.: 6

Autosampler Location: 304

Sample ID: DI CHECK

Date Collected: 1/19/2016 10:36:49 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc. Units	Std.Dev.	
ScA 357.253	2313130.9	103.2	%	0.49			0.48%
ScR 361.383	182666.3	103.7	%	1.24			1.19%
Ag 328.068†	25.3	0.00016	mg/L	0.000035	0.00016	mg/L	0.000035 21.15%
Al 308.215†	16.9	0.01645	mg/L	0.005517	0.01645	mg/L	0.005517 33.55%
As 188.979†	2.8	0.00331	mg/L	0.000848	0.00331	mg/L	0.000848 25.65%
B 249.677†	-0.3	-0.00008	mg/L	0.001068	-0.00008	mg/L	0.001068 >999.9%
Ba 233.527†	0.9	0.00038	mg/L	0.000535	0.00038	mg/L	0.000535 140.30%
Be 313.042†	10.2	0.00003	mg/L	0.000014	0.00003	mg/L	0.000014 40.54%
Ca 317.933†	44.7	0.00683	mg/L	0.003178	0.00683	mg/L	0.003178 46.52%
Cd 228.802†	-0.5	-0.00004	mg/L	0.000069	-0.00004	mg/L	0.000069 170.16%
Co 228.616†	11.0	0.00053	mg/L	0.000069	0.00053	mg/L	0.000069 13.09%
Cr 267.716†	2.5	0.00084	mg/L	0.000943	0.00084	mg/L	0.000943 112.41%
Cu 324.752†	-37.7	-0.00015	mg/L	0.000243	-0.00015	mg/L	0.000243 158.22%
Fe 273.955†	7.5	0.01308	mg/L	0.006705	0.01308	mg/L	0.006705 51.25%
K 766.490†	21.4	0.01001	mg/L	0.016709	0.01001	mg/L	0.016709 166.93%
Mg 279.077†	7.1	0.00956	mg/L	0.002988	0.00956	mg/L	0.002988 31.26%
Mn 257.610†	-0.1	-0.00001	mg/L	0.000093	-0.00001	mg/L	0.000093 >999.9%
Mo 202.031†	-2.4	-0.00023	mg/L	0.000342	-0.00023	mg/L	0.000342 147.34%
Na 589.592†	-1.6	-0.00012	mg/L	0.001246	-0.00012	mg/L	0.001246 >999.9%
Na 330.237†	-0.7	-0.04495	mg/L	0.075362	-0.04495	mg/L	0.075362 167.65%
Ni 231.604†	0.2	0.00011	mg/L	0.000642	0.00011	mg/L	0.000642 583.38%
Pb 220.353†	1.7	0.00037	mg/L	0.000296	0.00037	mg/L	0.000296 79.67%
Sb 206.836†	-2.8	-0.00159	mg/L	0.000509	-0.00159	mg/L	0.000509 32.01%
Se 196.026†	4.3	0.00599	mg/L	0.004160	0.00599	mg/L	0.004160 69.41%
Si 288.158†	-9.1	-0.00801	mg/L	0.003259	-0.00801	mg/L	0.003259 40.69%
Sn 189.927†	-1.8	-0.00099	mg/L	0.001233	-0.00099	mg/L	0.001233 124.32%
Sr 421.552†	18.6	0.00003	mg/L	0.000010	0.00003	mg/L	0.000010 36.76%
Ti 334.903†	1.1	0.00010	mg/L	0.000243	0.00010	mg/L	0.000243 240.06%
Tl 190.801†	5.0	0.00474	mg/L	0.004918	0.00474	mg/L	0.004918 103.83%
V 292.402†	8.5	0.00008	mg/L	0.000098	0.00008	mg/L	0.000098 128.03%
Zn 206.200†	0.2	0.00012	mg/L	0.000171	0.00012	mg/L	0.000171 136.62%

Sequence No.: 7

Autosampler Location: 7

Sample ID: CV{

Date Collected: 1/19/2016 10:40:48 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2219091.3	99.03 %	0.554			0.56%
ScR 361.383	174097.4	98.85 %	0.466			0.47%
Ag 328.068†	151893.1	0.9861 mg/L	0.00382	0.9861 mg/L	0.00382	0.39%
Al 308.215†	2076.7	1.986 mg/L	0.0117	1.986 mg/L	0.0117	0.59%
As 188.979†	1666.4	2.001 mg/L	0.0211	2.001 mg/L	0.0211	1.05%
B 249.677†	3672.1	0.9690 mg/L	0.00672	0.9690 mg/L	0.00672	0.69%
Ba 233.527†	2356.7	1.009 mg/L	0.0101	1.009 mg/L	0.0101	1.01%
Be 313.042†	289902.6	0.9569 mg/L	0.00747	0.9569 mg/L	0.00747	0.78%
Ca 317.933†	12621.8	1.927 mg/L	0.0073	1.927 mg/L	0.0073	0.38%
Cd 228.802†	22199.0	1.046 mg/L	0.0008	1.046 mg/L	0.0008	0.07%
Co 228.616†	20843.8	0.9992 mg/L	0.00204	0.9992 mg/L	0.00204	0.20%
Cr 267.716†	3077.1	1.018 mg/L	0.0071	1.018 mg/L	0.0071	0.70%
Cu 324.752†	241704.3	0.9868 mg/L	0.00117	0.9868 mg/L	0.00117	0.12%
Fe 273.955†	1164.5	2.033 mg/L	0.0174	2.033 mg/L	0.0174	0.86%
K 766.490†	42116.0	19.68 mg/L	0.028	19.68 mg/L	0.028	0.14%
Mg 279.077†	1461.9	1.987 mg/L	0.0119	1.987 mg/L	0.0119	0.60%
Mn 257.610†	16761.1	0.9674 mg/L	0.00238	0.9674 mg/L	0.00238	0.25%
Mo 202.031†	10270.0	0.9924 mg/L	0.00555	0.9924 mg/L	0.00555	0.56%
Na 589.592†	664944.7	48.92 mg/L	0.088	48.92 mg/L	0.088	0.18%
Na 330.237†	784.8	50.88 mg/L	0.390	50.88 mg/L	0.390	0.77%
Ni 231.604†	1906.2	0.9786 mg/L	0.00363	0.9786 mg/L	0.00363	0.37%
Pb 220.353†	9346.3	2.018 mg/L	0.0010	2.018 mg/L	0.0010	0.05%
Sb 206.836†	3749.5	2.062 mg/L	0.0141	2.062 mg/L	0.0141	0.68%
Se 196.026†	1440.6	2.015 mg/L	0.0161	2.015 mg/L	0.0161	0.80%
Si 288.158†	2276.5	2.012 mg/L	0.0043	2.012 mg/L	0.0043	0.21%
Sn 189.927†	1751.1	0.9779 mg/L	0.01118	0.9779 mg/L	0.01118	1.14%
Sr 421.552†	636290.1	0.9697 mg/L	0.00179	0.9697 mg/L	0.00179	0.18%
Ti 334.903†	10781.4	0.9773 mg/L	0.00297	0.9773 mg/L	0.00297	0.30%
Tl 190.801†	2108.3	1.994 mg/L	0.0135	1.994 mg/L	0.0135	0.67%
V 292.402†	114991.4	1.010 mg/L	0.0039	1.010 mg/L	0.0039	0.38%
Zn 206.200†	1610.2	0.9632 mg/L	0.00702	0.9632 mg/L	0.00702	0.73%

Sequence No.: 8
Sample ID: CB \

Autosampler Location: 1
Date Collected: 1/19/2016 10:44:51 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc.	Units		Conc.	Units	
ScA 357.253	2257104.4	100.7	%	0.63			0.63%
ScR 361.383	175511.5	99.65	%	0.524			0.53%
Ag 328.068†	2.2	0.00001	mg/L	0.000205	0.00001	mg/L	0.000205 >999.9%
Al 308.215†	2.8	0.00273	mg/L	0.004769	0.00273	mg/L	0.004769 174.55%
As 188.979†	-1.9	-0.00230	mg/L	0.001727	-0.00230	mg/L	0.001727 75.05%
B 249.677†	5.7	0.00151	mg/L	0.000997	0.00151	mg/L	0.000997 66.08%
Ba 233.527†	0.7	0.00031	mg/L	0.001509	0.00031	mg/L	0.001509 489.09%
Be 313.042†	33.0	0.00011	mg/L	0.000032	0.00011	mg/L	0.000032 29.73%
Ca 317.933†	0.4	0.00006	mg/L	0.000610	0.00006	mg/L	0.000610 997.00%
Cd 228.802†	-0.8	-0.00002	mg/L	0.000164	-0.00002	mg/L	0.000164 660.52%
Co 228.616†	4.1	0.00020	mg/L	0.000225	0.00020	mg/L	0.000225 113.83%
Cr 267.716†	0.8	0.00026	mg/L	0.000446	0.00026	mg/L	0.000446 172.33%
Cu 324.752†	1.8	0.00001	mg/L	0.000117	0.00001	mg/L	0.000117 >999.9%
Fe 273.955†	1.4	0.00250	mg/L	0.001606	0.00250	mg/L	0.001606 64.24%
K 766.490†	55.3	0.02586	mg/L	0.012075	0.02586	mg/L	0.012075 46.70%
Mg 279.077†	-1.6	-0.00216	mg/L	0.001870	-0.00216	mg/L	0.001870 86.61%
Mn 257.610†	0.4	0.00002	mg/L	0.000102	0.00002	mg/L	0.000102 428.89%
Mo 202.031†	18.1	0.00175	mg/L	0.000695	0.00175	mg/L	0.000695 39.78%
Na 589.592†	60.6	0.00446	mg/L	0.006590	0.00446	mg/L	0.006590 147.89%
Na 330.237†	0.4	0.02694	mg/L	0.166303	0.02694	mg/L	0.166303 617.23%
Ni 231.604†	0.1	0.00007	mg/L	0.002350	0.00007	mg/L	0.002350 >999.9%
Pb 220.353†	3.8	0.00081	mg/L	0.000678	0.00081	mg/L	0.000678 83.27%
Sb 206.836†	10.4	0.00574	mg/L	0.002035	0.00574	mg/L	0.002035 35.45%
Se 196.026†	-1.8	-0.00249	mg/L	0.004965	-0.00249	mg/L	0.004965 199.31%
Si 288.158†	-1.0	-0.00086	mg/L	0.001012	-0.00086	mg/L	0.001012 117.87%
Sn 189.927†	0.3	0.00018	mg/L	0.001349	0.00018	mg/L	0.001349 748.40%
Sr 421.552†	98.0	0.00015	mg/L	0.000053	0.00015	mg/L	0.000053 35.26%
Ti 334.903†	5.8	0.00052	mg/L	0.000358	0.00052	mg/L	0.000358 68.34%
Tl 190.801†	0.9	0.00083	mg/L	0.004399	0.00083	mg/L	0.004399 527.77%
V 292.402†	-13.4	-0.00012	mg/L	0.000268	-0.00012	mg/L	0.000268 232.24%
Zn 206.200†	1.6	0.00095	mg/L	0.001089	0.00095	mg/L	0.001089 114.39%

Sequence No.: 9

Autosampler Location: 305

Sample ID: APR4 MB1 FRN

Date Collected: 1/19/2016 10:48:51 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: APR4 MB1 FRN

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: APR4 MB1 FRN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2275229.8		101.5 %	0.30			0.30%
ScR 361.383	177895.9		101.0 %	0.43			0.43%
Ag 328.068†	29.5	0.00019	mg/L	0.000153	0.00019	mg/L	0.000153 79.73%
Al 308.215†	247.3	0.2403	mg/L	0.00425	0.2403	mg/L	0.00425 1.77%
As 188.979†	-1.7	-0.00160	mg/L	0.001576	-0.00160	mg/L	0.001576 98.76%
B 249.677†	2.9	0.00077	mg/L	0.000378	0.00077	mg/L	0.000378 48.95%
Ba 233.527†	0.9	0.00040	mg/L	0.001110	0.00040	mg/L	0.001110 278.86%
Be 313.042†	-10.1	-0.00003	mg/L	0.000024	-0.00003	mg/L	0.000024 71.16%
Ca 317.933†	1958.3	0.2992	mg/L	0.00350	0.2992	mg/L	0.00350 1.17%
Cd 228.802†	-6.8	-0.00031	mg/L	0.000087	-0.00031	mg/L	0.000087 28.15%
Co 228.616†	-3.4	-0.00019	mg/L	0.000281	-0.00019	mg/L	0.000281 144.15%
Cr 267.716†	2.7	0.00087	mg/L	0.000472	0.00087	mg/L	0.000472 53.95%
Cu 324.752†	-25.9	-0.00011	mg/L	0.000221	-0.00011	mg/L	0.000221 201.78%
Fe 273.955†	2.6	0.00461	mg/L	0.001410	0.00461	mg/L	0.001410 30.60%
K 766.490†	30.9	0.01442	mg/L	0.004479	0.01442	mg/L	0.004479 31.06%
Mg 279.077†	64.5	0.08737	mg/L	0.008373	0.08737	mg/L	0.008373 9.58%
Mn 257.610†	1.3	0.00007	mg/L	0.000123	0.00007	mg/L	0.000123 175.44%
Mo 202.031†	9.9	0.00095	mg/L	0.000198	0.00095	mg/L	0.000198 20.89%
Na 589.592†	287.7	0.02117	mg/L	0.003900	0.02117	mg/L	0.003900 18.42%
Na 330.237†	6.5	0.4252	mg/L	0.28914	0.4252	mg/L	0.28914 68.00%
Ni 231.604†	-0.3	-0.00017	mg/L	0.002044	-0.00017	mg/L	0.002044 >999.9%
Pb 220.353†	2.6	0.00061	mg/L	0.001235	0.00061	mg/L	0.001235 202.54%
Sb 206.836†	9.3	0.00513	mg/L	0.001843	0.00513	mg/L	0.001843 35.90%
Se 196.026†	-2.4	-0.00347	mg/L	0.001630	-0.00347	mg/L	0.001630 46.94%
Si 288.158†	-2.9	-0.00258	mg/L	0.003141	-0.00258	mg/L	0.003141 121.95%
Sn 189.927†	2.2	0.00128	mg/L	0.002218	0.00128	mg/L	0.002218 172.81%
Sr 421.552†	152.5	0.00023	mg/L	0.000023	0.00023	mg/L	0.000023 10.07%
Ti 334.903†	190.5	0.01727	mg/L	0.000675	0.01727	mg/L	0.000675 3.91%
Tl 190.801†	-0.3	-0.00031	mg/L	0.001054	-0.00031	mg/L	0.001054 336.69%
V 292.402†	-10.0	-0.00009	mg/L	0.000067	-0.00009	mg/L	0.000067 71.94%
Zn 206.200†	16.7	0.01001	mg/L	0.000615	0.01001	mg/L	0.000615 6.14%

Sequence No.: 10
Sample ID: ATSO A FRN

Autosampler Location: 306
Date Collected: 1/19/2016 10:52:52 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATSO A FRN

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATSO A FRN

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	2209587.9	98.61	%	0.276			0.28%
ScR 361.383	172952.5	98.20	%	0.423			0.43%
Ag 328.068†	51.6	0.00034	mg/L	0.000116	0.00034	mg/L	0.000116 34.49%
Al 308.215†	618.5	0.6008	mg/L	0.00582	0.6008	mg/L	0.00582 0.97%
As 188.979†	57.0	0.06573	mg/L	0.003085	0.06573	mg/L	0.003085 4.69%
B 249.677†	757.7	0.2002	mg/L	0.00113	0.2002	mg/L	0.00113 0.56%
Ba 233.527†	6.9	0.00271	mg/L	0.001280	0.00271	mg/L	0.001280 47.17%
Be 313.042†	6.0	0.00002	mg/L	0.000033	0.00002	mg/L	0.000033 173.92%
Ca 317.933†	134082.7	20.48	mg/L	0.025	20.48	mg/L	0.025 0.12%
Cd 228.802†	430.5	0.02010	mg/L	0.000226	0.02010	mg/L	0.000226 1.13%
Co 228.616†	37.9	0.00176	mg/L	0.000126	0.00176	mg/L	0.000126 7.17%
Cr 267.716†	39.5	0.00988	mg/L	0.001614	0.00988	mg/L	0.001614 16.33%
Cu 324.752†	10557.1	0.04238	mg/L	0.000231	0.04238	mg/L	0.000231 0.54%
Fe 273.955†	782.9	1.371	mg/L	0.0098	1.371	mg/L	0.0098 0.72%
K 766.490†	231169.5	108.0	mg/L	0.14	108.0	mg/L	0.14 0.13%
Mg 279.077†	22526.7	30.50	mg/L	0.074	30.50	mg/L	0.074 0.24%
Mn 257.610†	1349.5	0.07778	mg/L	0.000399	0.07778	mg/L	0.000399 0.51%
Mo 202.031†	103.6	0.00963	mg/L	0.000524	0.00963	mg/L	0.000524 5.44%
Na 589.592†	2883068.2	212.1	mg/L	0.17	212.1	mg/L	0.17 0.08%
Na 330.237†	3316.0	215.1	mg/L	1.17	215.1	mg/L	1.17 0.54%
Ni 231.604†	10.4	0.00533	mg/L	0.001301	0.00533	mg/L	0.001301 24.41%
Pb 220.353†	15.2	0.00331	mg/L	0.000418	0.00331	mg/L	0.000418 12.61%
Sb 206.836†	2.5	0.00112	mg/L	0.000859	0.00112	mg/L	0.000859 76.58%
Se 196.026†	22.0	0.02920	mg/L	0.001411	0.02920	mg/L	0.001411 4.83%
Si 288.158†	466.2	0.4124	mg/L	0.00300	0.4124	mg/L	0.00300 0.73%
Sn 189.927†	-20.7	-0.00703	mg/L	0.002053	-0.00703	mg/L	0.002053 29.22%
Sr 421.552†	140560.6	0.2142	mg/L	0.00019	0.2142	mg/L	0.00019 0.09%
Ti 334.903†	374.6	0.03261	mg/L	0.000384	0.03261	mg/L	0.000384 1.18%
Tl 190.801†	2.6	0.00259	mg/L	0.002452	0.00259	mg/L	0.002452 94.56%
V 292.402†	398.6	0.00348	mg/L	0.000077	0.00348	mg/L	0.000077 2.21%
Zn 206.200†	1055.0	0.6309	mg/L	0.00348	0.6309	mg/L	0.00348 0.55%

Sequence No.: 11
 Sample ID: ATSO B FRN
 Dilution: 1.000000X

Autosampler Location: 307
 Date Collected: 1/19/2016 10:57:09 AM
 Data Type: Original

Nebulizer Parameters: ATSO B FRN

Analyte Back Pressure Flow
 All 171.0 kPa 0.75 L/min

Mean Data: ATSO B FRN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2186411.0		97.57 %	0.104			0.11%
ScR 361.383	174100.8		98.85 %	0.280			0.28%
Ag 328.068†	13.0	0.00009 mg/L		0.000144	0.00009 mg/L	0.000144	167.53%
Al 308.215†	1158.6	1.126 mg/L		0.00044	1.126 mg/L	0.00044	0.39%
As 188.979†	57.5	0.06574 mg/L		0.002225	0.06574 mg/L	0.002225	3.38%
B 249.677†	765.3	0.2022 mg/L		0.00127	0.2022 mg/L	0.00127	0.63%
Ba 233.527†	13.5	0.00544 mg/L		0.000616	0.00544 mg/L	0.000616	11.33%
Be 313.042†	7.1	0.00002 mg/L		0.000018	0.00002 mg/L	0.000018	85.89%
Ca 317.933†	211537.1	32.31 mg/L		0.191	32.31 mg/L	0.191	0.59%
Cd 228.802†	341.3	0.01585 mg/L		0.000126	0.01585 mg/L	0.000126	0.80%
Co 228.616†	50.9	0.00232 mg/L		0.000197	0.00232 mg/L	0.000197	8.48%
Cr 267.716†	41.7	0.01035 mg/L		0.000319	0.01035 mg/L	0.000319	3.09%
Cu 324.752†	17087.0	0.06913 mg/L		0.000414	0.06913 mg/L	0.000414	0.60%
Fe 273.955†	1204.4	2.110 mg/L		0.00071	2.110 mg/L	0.00071	0.34%
K 766.490†	203475.5	95.10 mg/L		0.321	95.10 mg/L	0.321	0.34%
Mg 279.077†	24114.2	32.65 mg/L		0.232	32.65 mg/L	0.232	0.71%
Mn 257.610†	1647.2	0.09490 mg/L		0.000299	0.09490 mg/L	0.000299	0.32%
Mo 202.031†	123.1	0.01131 mg/L		0.000601	0.01131 mg/L	0.000601	5.31%
Na 589.592†	3148968.1	231.7 mg/L		0.75	231.7 mg/L	0.75	0.32%
Na 330.237†	3627.1	235.3 mg/L		0.97	235.3 mg/L	0.97	0.41%
Ni 231.604†	25.5	0.01310 mg/L		0.001763	0.01310 mg/L	0.001763	13.46%
Pb 220.353†	16.4	0.00363 mg/L		0.000666	0.00363 mg/L	0.000666	18.37%
Sb 206.836†	3.7	0.00172 mg/L		0.000381	0.00172 mg/L	0.000381	22.21%
Se 196.026†	20.0	0.02626 mg/L		0.002298	0.02626 mg/L	0.002298	8.75%
Si 288.158†	515.7	0.4562 mg/L		0.00408	0.4562 mg/L	0.00408	0.90%
Sn 189.927†	-34.4	-0.01200 mg/L		0.001913	-0.01200 mg/L	0.001913	15.94%
Sr 421.552†	176444.4	0.2689 mg/L		0.00074	0.2689 mg/L	0.00074	0.27%
Ti 334.903†	753.6	0.06621 mg/L		0.000462	0.06621 mg/L	0.000462	0.70%
Tl 190.801†	2.2	0.00227 mg/L		0.001071	0.00227 mg/L	0.001071	47.10%
V 292.402†	670.4	0.00581 mg/L		0.000175	0.00581 mg/L	0.000175	3.02%
Zn 206.200†	950.4	0.5684 mg/L		0.00177	0.5684 mg/L	0.00177	0.31%

Sequence No.: 12
 Sample ID: ATSO C FRN
 Dilution: 1.000000X

Autosampler Location: 308
 Date Collected: 1/19/2016 11:01:26 AM
 Data Type: Original

Nebulizer Parameters: ATSO C FRN

Analyte Back Pressure Flow
 All 171.0 kPa 0.75 L/min

Mean Data: ATSO C FRN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Std.Dev.	
ScA 357.253	2205780.7	98.44	%	0.504			0.51%
ScR 361.383	176142.9	100.0	%	1.16			1.16%
Ag 328.068†	2.1	0.00002	mg/L	0.000087	0.00002	mg/L	0.000087 567.88%
Al 308.215†	939.7	0.9128	mg/L	0.01116	0.9128	mg/L	0.01116 1.22%
As 188.979†	75.7	0.08205	mg/L	0.003692	0.08205	mg/L	0.003692 4.50%
B 249.677†	765.7	0.2023	mg/L	0.00336	0.2023	mg/L	0.00336 1.66%
Ba 233.527†	7.5	0.00293	mg/L	0.000140	0.00293	mg/L	0.000140 4.78%
Be 313.042†	0.4	-0.00000	mg/L	0.000021	-0.00000	mg/L	0.000021 >999.9%
Ca 317.933†	455668.5	69.61	mg/L	0.321	69.61	mg/L	0.321 0.46%
Cd 228.802†	424.9	0.01970	mg/L	0.000179	0.01970	mg/L	0.000179 0.91%
Co 228.616†	58.2	0.00269	mg/L	0.000070	0.00269	mg/L	0.000070 2.61%
Cr 267.716†	37.6	0.00901	mg/L	0.000553	0.00901	mg/L	0.000553 6.14%
Cu 324.752†	11643.5	0.04683	mg/L	0.000264	0.04683	mg/L	0.000264 0.56%
Fe 273.955†	1056.5	1.851	mg/L	0.0194	1.851	mg/L	0.0194 1.05%
K 766.490†	235320.3	110.0	mg/L	0.66	110.0	mg/L	0.66 0.60%
Mg 279.077†	21700.7	29.38	mg/L	0.417	29.38	mg/L	0.417 1.42%
Mn 257.610†	1713.5	0.09858	mg/L	0.000993	0.09858	mg/L	0.000993 1.01%
Mo 202.031†	135.2	0.01179	mg/L	0.000329	0.01179	mg/L	0.000329 2.79%
Na 589.592†	2801264.3	206.1	mg/L	0.67	206.1	mg/L	0.67 0.33%
Na 330.237†	3219.4	208.8	mg/L	3.27	208.8	mg/L	3.27 1.56%
Ni 231.604†	13.2	0.00679	mg/L	0.000727	0.00679	mg/L	0.000727 10.71%
Pb 220.353†	13.0	0.00288	mg/L	0.000720	0.00288	mg/L	0.000720 24.98%
Sb 206.836†	-1.7	-0.00128	mg/L	0.001497	-0.00128	mg/L	0.001497 116.72%
Se 196.026†	29.5	0.03966	mg/L	0.002758	0.03966	mg/L	0.002758 6.95%
Si 288.158†	458.2	0.4054	mg/L	0.00281	0.4054	mg/L	0.00281 0.69%
Sn 189.927†	-43.8	-0.00898	mg/L	0.001576	-0.00898	mg/L	0.001576 17.54%
Sr 421.552†	219465.2	0.3345	mg/L	0.00118	0.3345	mg/L	0.00118 0.35%
Ti 334.903†	645.9	0.05392	mg/L	0.000593	0.05392	mg/L	0.000593 1.10%
Tl 190.801†	3.7	0.00375	mg/L	0.002806	0.00375	mg/L	0.002806 74.80%
V 292.402†	589.2	0.00511	mg/L	0.000098	0.00511	mg/L	0.000098 1.92%
Zn 206.200†	1113.5	0.6659	mg/L	0.00792	0.6659	mg/L	0.00792 1.19%

Sequence No.: 13
Sample ID: ATSO D FRN

Autosampler Location: 309
Date Collected: 1/19/2016 11:05:43 AM
Data Type: Original

Dilution: 1.000000X
User canceled analysis.

Analysis Begun

Start Time: 1/19/2016 11:07:34 AM
Logged In Analyst: Metals
Spectrometer: Optima 7300 DV, S/N 077C8121202

Plasma On Time: 1/19/2016 8:33:30 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISSETMON.sif
Batch ID:
Results Data Set: I2160119
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 13
Sample ID: ATSO D FRN

Autosampler Location: 309
Date Collected: 1/19/2016 11:07:34 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATSO D FRN

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATSO D FRN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2204425.1	98.37 %	0.142			0.14%
ScR 361.383	175272.8	99.52 %	0.876			0.88%
Ag 328.068†	39.6	0.00026 mg/L	0.000167	0.00026 mg/L	0.000167	63.95%
Al 308.215†	1118.6	1.087 mg/L	0.0162	1.087 mg/L	0.0162	1.49%
As 188.979†	62.0	0.07017 mg/L	0.002097	0.07017 mg/L	0.002097	2.99%
B 249.677†	869.0	0.2296 mg/L	0.00109	0.2296 mg/L	0.00109	0.47%
Ba 233.527†	11.5	0.00460 mg/L	0.001606	0.00460 mg/L	0.001606	34.88%
Be 313.042†	-1.1	-0.00001 mg/L	0.000018	-0.00001 mg/L	0.000018	229.27%
Ca 317.933†	256957.5	39.25 mg/L	0.347	39.25 mg/L	0.347	0.88%
Cd 228.802†	418.2	0.01947 mg/L	0.000373	0.01947 mg/L	0.000373	1.92%
Co 228.616†	50.1	0.00228 mg/L	0.000196	0.00228 mg/L	0.000196	8.57%
Cr 267.716†	34.8	0.00802 mg/L	0.001075	0.00802 mg/L	0.001075	13.41%
Cu 324.752†	12897.5	0.05194 mg/L	0.000246	0.05194 mg/L	0.000246	0.47%
Fe 273.955†	1169.3	2.048 mg/L	0.0258	2.048 mg/L	0.0258	1.26%
K 766.490†	233574.5	109.2 mg/L	0.89	109.2 mg/L	0.89	0.81%
Mg 279.077†	23976.5	32.47 mg/L	0.327	32.47 mg/L	0.327	1.01%
Mn 257.610†	1566.5	0.09022 mg/L	0.000933	0.09022 mg/L	0.000933	1.03%
Mo 202.031†	181.7	0.01684 mg/L	0.000247	0.01684 mg/L	0.000247	1.46%
Na 589.592†	3067821.1	225.7 mg/L	1.60	225.7 mg/L	1.60	0.71%
Na 330.237†	3561.4	231.0 mg/L	2.67	231.0 mg/L	2.67	1.16%
Ni 231.604†	12.3	0.00629 mg/L	0.001225	0.00629 mg/L	0.001225	19.48%
Pb 220.353†	12.1	0.00272 mg/L	0.001233	0.00272 mg/L	0.001233	45.33%
Sb 206.836†	1.7	0.00069 mg/L	0.001001	0.00069 mg/L	0.001001	144.97%
Se 196.026†	22.3	0.02943 mg/L	0.005221	0.02943 mg/L	0.005221	17.74%
Si 288.158†	602.8	0.5332 mg/L	0.00454	0.5332 mg/L	0.00454	0.85%
Sn 189.927†	-36.0	-0.01137 mg/L	0.001015	-0.01137 mg/L	0.001015	8.93%
Sr 421.552†	181681.1	0.2769 mg/L	0.00192	0.2769 mg/L	0.00192	0.69%
Ti 334.903†	765.8	0.06684 mg/L	0.000491	0.06684 mg/L	0.000491	0.73%
Tl 190.801†	2.6	0.00269 mg/L	0.001137	0.00269 mg/L	0.001137	42.25%
V 292.402†	1571.4	0.01368 mg/L	0.000019	0.01368 mg/L	0.000019	0.14%
Zn 206.200†	1116.0	0.6674 mg/L	0.00545	0.6674 mg/L	0.00545	0.82%

Sequence No.: 14
Sample ID: ATSO E FRN

Autosampler Location: 310
Date Collected: 1/19/2016 11:11:52 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATSO E FRN

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATSO E FRN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2192352.1		97.84 %	0.396			0.40%
ScR 361.383	173201.5		98.34 %	0.748			0.76%
Ag 328.068†	5.3	0.00004	mg/L	0.000171	0.00004	mg/L	0.000171 479.96%
Al 308.215†	1311.7	1.274	mg/L	0.0182	1.274	mg/L	0.0182 1.43%
As 188.979†	50.0	0.05789	mg/L	0.000674	0.05789	mg/L	0.000674 1.16%
B 249.677†	796.9	0.2106	mg/L	0.00330	0.2106	mg/L	0.00330 1.57%
Ba 233.527†	13.7	0.00549	mg/L	0.000917	0.00549	mg/L	0.000917 16.71%
Be 313.042†	7.7	0.00002	mg/L	0.000008	0.00002	mg/L	0.000008 35.47%
Ca 317.933†	167458.1	25.58	mg/L	0.167	25.58	mg/L	0.167 0.65%
Cd 228.802†	306.9	0.01426	mg/L	0.000109	0.01426	mg/L	0.000109 0.77%
Co 228.616†	49.9	0.00226	mg/L	0.000131	0.00226	mg/L	0.000131 5.80%
Cr 267.716†	34.8	0.00776	mg/L	0.001049	0.00776	mg/L	0.001049 13.52%
Cu 324.752†	12719.4	0.05133	mg/L	0.000573	0.05133	mg/L	0.000573 1.12%
Fe 273.955†	1301.5	2.280	mg/L	0.0311	2.280	mg/L	0.0311 1.36%
K 766.490†	185247.3	86.58	mg/L	0.441	86.58	mg/L	0.441 0.51%
Mg 279.077†	26731.1	36.20	mg/L	0.453	36.20	mg/L	0.453 1.25%
Mn 257.610†	1612.7	0.09294	mg/L	0.001172	0.09294	mg/L	0.001172 1.26%
Mo 202.031†	102.9	0.00947	mg/L	0.000180	0.00947	mg/L	0.000180 1.90%
Na 589.592†	3530344.2	259.7	mg/L	1.27	259.7	mg/L	1.27 0.49%
Na 330.237†	4113.2	266.9	mg/L	3.67	266.9	mg/L	3.67 1.37%
Ni 231.604†	12.7	0.00653	mg/L	0.001378	0.00653	mg/L	0.001378 21.10%
Pb 220.353†	21.0	0.00466	mg/L	0.000702	0.00466	mg/L	0.000702 15.07%
Sb 206.836†	1.8	0.00076	mg/L	0.001708	0.00076	mg/L	0.001708 225.06%
Se 196.026†	18.5	0.02394	mg/L	0.005190	0.02394	mg/L	0.005190 21.68%
Si 288.158†	475.7	0.4208	mg/L	0.01075	0.4208	mg/L	0.01075 2.55%
Sn 189.927†	-26.9	-0.00935	mg/L	0.001945	-0.00935	mg/L	0.001945 20.79%
Sr 421.552†	171002.8	0.2606	mg/L	0.00126	0.2606	mg/L	0.00126 0.48%
Ti 334.903†	824.5	0.07310	mg/L	0.000690	0.07310	mg/L	0.000690 0.94%
Tl 190.801†	2.0	0.00211	mg/L	0.005367	0.00211	mg/L	0.005367 254.83%
V 292.402†	588.1	0.00507	mg/L	0.000119	0.00507	mg/L	0.000119 2.34%
Zn 206.200†	887.1	0.5305	mg/L	0.00667	0.5305	mg/L	0.00667 1.26%

Sequence No.: 15
Sample ID: APR4 ADUP FRN

Autosampler Location: 311
Date Collected: 1/19/2016 11:16:09 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: APR4 ADUP FRN

Analyte Back Pressure Flow
All 172.0 kPa 0.75 L/min

Mean Data: APR4 ADUP FRN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2183096.7	97.42	%	0.463			0.47%
ScR 361.383	173776.7	98.67	%	0.600			0.61%
Ag 328.068†	57.9	0.00038	mg/L	0.000193	0.00038	mg/L	0.000193 51.39%
Al 308.215†	471.6	0.4579	mg/L	0.00484	0.4579	mg/L	0.00484 1.06%
As 188.979†	51.7	0.05887	mg/L	0.004328	0.05887	mg/L	0.004328 7.35%
B 249.677†	812.2	0.2146	mg/L	0.00217	0.2146	mg/L	0.00217 1.01%
Ba 233.527†	5.6	0.00224	mg/L	0.000283	0.00224	mg/L	0.000283 12.64%
Be 313.042†	3.6	0.00001	mg/L	0.000018	0.00001	mg/L	0.000018 159.50%
Ca 317.933†	152203.6	23.25	mg/L	0.148	23.25	mg/L	0.148 0.64%
Cd 228.802†	355.3	0.01656	mg/L	0.000184	0.01656	mg/L	0.000184 1.11%
Co 228.616†	36.8	0.00172	mg/L	0.000147	0.00172	mg/L	0.000147 8.51%
Cr 267.716†	33.6	0.00714	mg/L	0.000961	0.00714	mg/L	0.000961 13.46%
Cu 324.752†	8833.6	0.03539	mg/L	0.000170	0.03539	mg/L	0.000170 0.48%
Fe 273.955†	571.1	1.000	mg/L	0.0063	1.000	mg/L	0.0063 0.63%
K 766.490†	189335.9	88.49	mg/L	0.338	88.49	mg/L	0.338 0.38%
Mg 279.077†	28131.9	38.10	mg/L	0.298	38.10	mg/L	0.298 0.78%
Mn 257.610†	1015.9	0.05852	mg/L	0.000366	0.05852	mg/L	0.000366 0.63%
Mo 202.031†	216.1	0.02045	mg/L	0.000171	0.02045	mg/L	0.000171 0.84%
Na 589.592†	3845295.6	282.9	mg/L	1.02	282.9	mg/L	1.02 0.36%
Na 330.237†	4479.3	290.7	mg/L	1.39	290.7	mg/L	1.39 0.48%
Ni 231.604†	10.0	0.00511	mg/L	0.001005	0.00511	mg/L	0.001005 19.67%
Pb 220.353†	15.6	0.00339	mg/L	0.001202	0.00339	mg/L	0.001202 35.47%
Sb 206.836†	0.2	-0.00013	mg/L	0.000885	-0.00013	mg/L	0.000885 661.05%
Se 196.026†	16.6	0.02136	mg/L	0.002091	0.02136	mg/L	0.002091 9.79%
Si 288.158†	448.2	0.3964	mg/L	0.00508	0.3964	mg/L	0.00508 1.28%
Sn 189.927†	-21.0	-0.00653	mg/L	0.001912	-0.00653	mg/L	0.001912 29.28%
Sr 421.552†	169347.3	0.2581	mg/L	0.00120	0.2581	mg/L	0.00120 0.47%
Ti 334.903†	277.6	0.02360	mg/L	0.000331	0.02360	mg/L	0.000331 1.40%
Tl 190.801†	3.2	0.00313	mg/L	0.001798	0.00313	mg/L	0.001798 57.38%
V 292.402†	238.4	0.00209	mg/L	0.000132	0.00209	mg/L	0.000132 6.30%
Zn 206.200†	748.3	0.4475	mg/L	0.00179	0.4475	mg/L	0.00179 0.40%

Sequence No.: 16
Sample ID: APR4 A FRN

Autosampler Location: 312
Date Collected: 1/19/2016 11:20:26 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: APR4 A FRN

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: APR4 A FRN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2175450.7	97.08	%	0.553			0.57%
ScR 361.383	173800.5	98.68	%	0.363			0.37%
Ag 328.068†	68.7	0.00045	mg/L	0.000106	0.00045	mg/L	0.000106 23.71%
Al 308.215†	437.1	0.4243	mg/L	0.00398	0.4243	mg/L	0.00398 0.94%
As 188.979†	54.3	0.06027	mg/L	0.000369	0.06027	mg/L	0.000369 0.61%
B 249.677†	787.3	0.2081	mg/L	0.00036	0.2081	mg/L	0.00036 0.18%
Ba 233.527†	5.9	0.00238	mg/L	0.000616	0.00238	mg/L	0.000616 25.85%
Be 313.042†	2.7	0.00001	mg/L	0.000009	0.00001	mg/L	0.000009 110.45%
Ca 317.933†	231981.5	35.43	mg/L	0.065	35.43	mg/L	0.065 0.18%
Cd 228.802†	341.2	0.01587	mg/L	0.000292	0.01587	mg/L	0.000292 1.84%
Co 228.616†	38.0	0.00179	mg/L	0.000123	0.00179	mg/L	0.000123 6.88%
Cr 267.716†	33.4	0.00718	mg/L	0.000999	0.00718	mg/L	0.000999 13.91%
Cu 324.752†	8485.3	0.03399	mg/L	0.000265	0.03399	mg/L	0.000265 0.78%
Fe 273.955†	537.1	0.9410	mg/L	0.00251	0.9410	mg/L	0.00251 0.27%
K 766.490†	181543.0	84.85	mg/L	0.216	84.85	mg/L	0.216 0.26%
Mg 279.077†	26697.3	36.15	mg/L	0.050	36.15	mg/L	0.050 0.14%
Mn 257.610†	976.3	0.05618	mg/L	0.000089	0.05618	mg/L	0.000089 0.16%
Mo 202.031†	228.9	0.02147	mg/L	0.000071	0.02147	mg/L	0.000071 0.33%
Na 589.592†	3700164.3	272.2	mg/L	0.50	272.2	mg/L	0.50 0.18%
Na 330.237†	4297.6	278.9	mg/L	0.25	278.9	mg/L	0.25 0.09%
Ni 231.604†	10.4	0.00535	mg/L	0.002258	0.00535	mg/L	0.002258 42.17%
Pb 220.353†	17.5	0.00380	mg/L	0.000671	0.00380	mg/L	0.000671 17.65%
Sb 206.836†	1.2	0.00034	mg/L	0.001549	0.00034	mg/L	0.001549 451.68%
Se 196.026†	16.1	0.02072	mg/L	0.003346	0.02072	mg/L	0.003346 16.15%
Si 288.158†	439.0	0.3884	mg/L	0.00819	0.3884	mg/L	0.00819 2.11%
Sn 189.927†	-31.9	-0.00995	mg/L	0.002753	-0.00995	mg/L	0.002753 27.66%
Sr 421.552†	190085.1	0.2897	mg/L	0.00055	0.2897	mg/L	0.00055 0.19%
Ti 334.903†	260.0	0.02119	mg/L	0.000432	0.02119	mg/L	0.000432 2.04%
Tl 190.801†	-0.3	-0.00016	mg/L	0.005519	-0.00016	mg/L	0.005519 >999.9%
V 292.402†	238.1	0.00209	mg/L	0.000035	0.00209	mg/L	0.000035 1.66%
Zn 206.200†	707.6	0.4232	mg/L	0.00160	0.4232	mg/L	0.00160 0.38%

Sequence No.: 17
 Sample ID: APR4 ASPK FRN

Autosampler Location: 313
 Date Collected: 1/19/2016 11:24:43 AM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: APR4 ASPK FRN

Analyte Back Pressure Flow
 All 172.0 kPa 0.75 L/min

Mean Data: APR4 ASPK FRN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2190134.6	97.74 %	0.469			0.48%
ScR 361.383	180263.5	102.3 %	0.35			0.35%
Ag 328.068†	45429.1	0.2951 mg/L	0.00034	0.2951 mg/L	0.00034	0.12%
Al 308.215†	4420.2	4.281 mg/L	0.0118	4.281 mg/L	0.0118	0.27%
As 188.979†	3463.0	4.106 mg/L	0.0178	4.106 mg/L	0.0178	0.43%
B 249.677†	762.4	0.1991 mg/L	0.00091	0.1991 mg/L	0.00091	0.46%
Ba 233.527†	8986.7	3.850 mg/L	0.0084	3.850 mg/L	0.0084	0.22%
Be 313.042†	279043.8	0.9211 mg/L	0.00990	0.9211 mg/L	0.00990	1.08%
Ca 317.933†	253326.4	38.70 mg/L	0.207	38.70 mg/L	0.207	0.53%
Cd 228.802†	22336.5	1.040 mg/L	0.0027	1.040 mg/L	0.0027	0.26%
Co 228.616†	19668.5	0.9441 mg/L	0.00142	0.9441 mg/L	0.00142	0.15%
Cr 267.716†	2923.9	0.9620 mg/L	0.00244	0.9620 mg/L	0.00244	0.25%
Cu 324.752†	255006.2	1.041 mg/L	0.0040	1.041 mg/L	0.0040	0.39%
Fe 273.955†	2797.6	4.894 mg/L	0.0226	4.894 mg/L	0.0226	0.46%
K 766.490†	224859.1	105.1 mg/L	0.19	105.1 mg/L	0.19	0.18%
Mg 279.077†	40877.3	55.36 mg/L	0.116	55.36 mg/L	0.116	0.21%
Mn 257.610†	17196.6	0.9928 mg/L	0.00561	0.9928 mg/L	0.00561	0.57%
Mo 202.031†	224.4	0.02097 mg/L	0.000149	0.02097 mg/L	0.000149	0.71%
Na 589.592†	3968888.9	292.0 mg/L	0.80	292.0 mg/L	0.80	0.27%
Na 330.237†	4749.5	307.9 mg/L	1.11	307.9 mg/L	1.11	0.36%
Ni 231.604†	1812.4	0.9286 mg/L	0.00288	0.9286 mg/L	0.00288	0.31%
Pb 220.353†	17456.8	3.769 mg/L	0.0124	3.769 mg/L	0.0124	0.33%
Sb 206.836†	13.1	-0.00328 mg/L	0.002757	-0.00328 mg/L	0.002757	84.17%
Se 196.026†	3069.5	4.293 mg/L	0.0286	4.293 mg/L	0.0286	0.67%
Si 288.158†	488.2	0.4355 mg/L	0.00276	0.4355 mg/L	0.00276	0.63%
Sn 189.927†	-39.6	-0.01336 mg/L	0.001359	-0.01336 mg/L	0.001359	10.17%
Sr 421.552†	774022.0	1.180 mg/L	0.0040	1.180 mg/L	0.0040	0.34%
Ti 334.903†	246.0	0.01951 mg/L	0.000171	0.01951 mg/L	0.000171	0.88%
Tl 190.801†	3875.3	3.672 mg/L	0.0197	3.672 mg/L	0.0197	0.54%
V 292.402†	112887.4	0.9910 mg/L	0.00270	0.9910 mg/L	0.00270	0.27%
Zn 206.200†	2225.6	1.331 mg/L	0.0018	1.331 mg/L	0.0018	0.14%

Sequence No.: 18

Sample ID: APR4 MB1SPK FRN

Autosampler Location: 314

Date Collected: 1/19/2016 11:29:01 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: APR4 MB1SPK FRN

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: APR4 MB1SPK FRN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2263435.0	101.0	%	0.27			0.27%
ScR 361.383	178956.3	101.6	%	1.17			1.16%
Ag 328.068†	147085.1	0.9549	mg/L	0.00484	0.9549	mg/L	0.00484 0.51%
Al 308.215†	4162.4	4.031	mg/L	0.0475	4.031	mg/L	0.0475 1.18%
As 188.979†	3297.4	3.912	mg/L	0.0232	3.912	mg/L	0.0232 0.59%
B 249.677†	6.8	-0.00059	mg/L	0.000742	-0.00059	mg/L	0.000742 125.40%
Ba 233.527†	9147.4	3.919	mg/L	0.0624	3.919	mg/L	0.0624 1.59%
Be 313.042†	280564.0	0.9261	mg/L	0.01789	0.9261	mg/L	0.01789 1.93%
Ca 317.933†	126126.5	19.27	mg/L	0.265	19.27	mg/L	0.265 1.38%
Cd 228.802†	21911.1	1.021	mg/L	0.0037	1.021	mg/L	0.0037 0.36%
Co 228.616†	20286.7	0.9738	mg/L	0.00628	0.9738	mg/L	0.00628 0.64%
Cr 267.716†	3052.7	1.008	mg/L	0.0148	1.008	mg/L	0.0148 1.47%
Cu 324.752†	241663.1	0.9872	mg/L	0.00396	0.9872	mg/L	0.00396 0.40%
Fe 273.955†	2356.3	4.121	mg/L	0.0589	4.121	mg/L	0.0589 1.43%
K 766.490†	42515.3	19.87	mg/L	0.298	19.87	mg/L	0.298 1.50%
Mg 279.077†	14420.8	19.53	mg/L	0.279	19.53	mg/L	0.279 1.43%
Mn 257.610†	16925.9	0.9773	mg/L	0.01406	0.9773	mg/L	0.01406 1.44%
Mo 202.031†	41.4	0.00365	mg/L	0.000303	0.00365	mg/L	0.000303 8.31%
Na 589.592†	266803.6	19.63	mg/L	0.318	19.63	mg/L	0.318 1.62%
Na 330.237†	332.4	21.28	mg/L	0.360	21.28	mg/L	0.360 1.69%
Ni 231.604†	1898.4	0.9726	mg/L	0.01458	0.9726	mg/L	0.01458 1.50%
Pb 220.353†	18327.3	3.957	mg/L	0.0207	3.957	mg/L	0.0207 0.52%
Sb 206.836†	18.2	-0.00094	mg/L	0.002533	-0.00094	mg/L	0.002533 269.12%
Se 196.026†	2727.4	3.816	mg/L	0.0203	3.816	mg/L	0.0203 0.53%
Si 288.158†	-10.5	-0.00553	mg/L	0.002791	-0.00553	mg/L	0.002791 50.48%
Sn 189.927†	-31.3	-0.01298	mg/L	0.000976	-0.01298	mg/L	0.000976 7.52%
Sr 421.552†	637527.8	0.9716	mg/L	0.01704	0.9716	mg/L	0.01704 1.75%
Ti 334.903†	40.0	0.00213	mg/L	0.000236	0.00213	mg/L	0.000236 11.08%
Tl 190.801†	4094.3	3.879	mg/L	0.0167	3.879	mg/L	0.0167 0.43%
V 292.402†	116077.6	1.019	mg/L	0.0017	1.019	mg/L	0.0017 0.17%
Zn 206.200†	1578.1	0.9441	mg/L	0.01492	0.9441	mg/L	0.01492 1.58%

Sequence No.: 19

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 1/19/2016 11:33:16 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: CV

Analyte	Mean Corrected			Std.Dev.	Sample		
	Intensity	Conc. Units	Calib.		Conc. Units	Std.Dev.	RSD
ScA 357.253	2280082.3	101.8 %		0.30			0.30%
ScR 361.383	179552.2	101.9 %		0.39			0.38%
Ag 328.068†	152355.6	0.9891 mg/L		0.00322	0.9891 mg/L	0.00322	0.33%
Al 308.215†	2083.3	1.992 mg/L		0.0173	1.992 mg/L	0.0173	0.87%
As 188.979†	1673.6	2.009 mg/L		0.0098	2.009 mg/L	0.0098	0.49%
B 249.677†	3666.8	0.9677 mg/L		0.00289	0.9677 mg/L	0.00289	0.30%
Ba 233.527†	2356.4	1.009 mg/L		0.0075	1.009 mg/L	0.0075	0.74%
Be 313.042†	292832.7	0.9666 mg/L		0.00153	0.9666 mg/L	0.00153	0.16%
Ca 317.933†	12675.7	1.935 mg/L		0.0110	1.935 mg/L	0.0110	0.57%
Cd 228.802†	22108.4	1.041 mg/L		0.0076	1.041 mg/L	0.0076	0.73%
Co 228.616†	20676.7	0.9912 mg/L		0.00858	0.9912 mg/L	0.00858	0.87%
Cr 267.716†	3085.0	1.021 mg/L		0.0029	1.021 mg/L	0.0029	0.28%
Cu 324.752†	241839.6	0.9874 mg/L		0.00186	0.9874 mg/L	0.00186	0.19%
Fe 273.955†	1168.5	2.040 mg/L		0.0151	2.040 mg/L	0.0151	0.74%
K 766.490†	42029.6	19.64 mg/L		0.041	19.64 mg/L	0.041	0.21%
Mg 279.077†	1464.2	1.990 mg/L		0.0185	1.990 mg/L	0.0185	0.93%
Mn 257.610†	16886.8	0.9747 mg/L		0.00207	0.9747 mg/L	0.00207	0.21%
Mo 202.031†	10203.7	0.9860 mg/L		0.01054	0.9860 mg/L	0.01054	1.07%
Na 589.592†	663992.8	48.85 mg/L		0.016	48.85 mg/L	0.016	0.03%
Na 330.237†	796.4	51.63 mg/L		0.329	51.63 mg/L	0.329	0.64%
Ni 231.604†	1897.1	0.9739 mg/L		0.00265	0.9739 mg/L	0.00265	0.27%
Pb 220.353†	9274.6	2.003 mg/L		0.0216	2.003 mg/L	0.0216	1.08%
Sb 206.836†	3731.8	2.052 mg/L		0.0067	2.052 mg/L	0.0067	0.33%
Se 196.026†	1448.6	2.026 mg/L		0.0028	2.026 mg/L	0.0028	0.14%
Si 288.158†	2282.7	2.017 mg/L		0.0022	2.017 mg/L	0.0022	0.11%
Sn 189.927†	1751.8	0.9783 mg/L		0.00050	0.9783 mg/L	0.00050	0.05%
Sr 421.552†	637131.3	0.9710 mg/L		0.00095	0.9710 mg/L	0.00095	0.10%
Ti 334.903†	10776.9	0.9769 mg/L		0.00226	0.9769 mg/L	0.00226	0.23%
Tl 190.801†	2093.9	1.980 mg/L		0.0051	1.980 mg/L	0.0051	0.26%
V 292.402†	114033.5	1.001 mg/L		0.0135	1.001 mg/L	0.0135	1.35%
Zn 206.200†	1614.5	0.9658 mg/L		0.00773	0.9658 mg/L	0.00773	0.80%

Sequence No.: 20

Sample ID: CB7

Dilution: 1.000000X

Autosampler Location: 1

Date Collected: 1/19/2016 11:37:18 AM

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2303820.5		102.8 %	0.45				0.44%
ScR 361.383	181281.3		102.9 %	0.37				0.36%
Ag 328.068†	43.0	0.00028	mg/L	0.000153	0.00028	mg/L	0.000153	55.00%
Al 308.215†	-4.5	-0.00437	mg/L	0.004542	-0.00437	mg/L	0.004542	103.87%
As 188.979†	1.0	0.00118	mg/L	0.001824	0.00118	mg/L	0.001824	154.36%
B 249.677†	2.4	0.00064	mg/L	0.001653	0.00064	mg/L	0.001653	256.93%
Ba 233.527†	1.1	0.00047	mg/L	0.000755	0.00047	mg/L	0.000755	160.30%
Be 313.042†	42.4	0.00014	mg/L	0.000019	0.00014	mg/L	0.000019	13.48%
Ca 317.933†	12.1	0.00184	mg/L	0.001716	0.00184	mg/L	0.001716	93.27%
Cd 228.802†	-1.3	-0.00007	mg/L	0.000103	-0.00007	mg/L	0.000103	156.30%
Co 228.616†	1.9	0.00009	mg/L	0.000074	0.00009	mg/L	0.000074	81.16%
Cr 267.716†	1.2	0.00039	mg/L	0.001221	0.00039	mg/L	0.001221	312.56%
Cu 324.752†	-9.2	-0.00004	mg/L	0.000212	-0.00004	mg/L	0.000212	551.51%
Fe 273.955†	0.4	0.00076	mg/L	0.001969	0.00076	mg/L	0.001969	257.60%
K 766.490†	53.0	0.02476	mg/L	0.019512	0.02476	mg/L	0.019512	78.80%
Mg 279.077†	3.6	0.00482	mg/L	0.006968	0.00482	mg/L	0.006968	144.57%
Mn 257.610†	0.9	0.00005	mg/L	0.000104	0.00005	mg/L	0.000104	189.68%
Mo 202.031†	18.3	0.00177	mg/L	0.000561	0.00177	mg/L	0.000561	31.68%
Na 589.592†	490.6	0.03609	mg/L	0.013845	0.03609	mg/L	0.013845	38.36%
Na 330.237†	5.9	0.3821	mg/L	0.03077	0.3821	mg/L	0.03077	8.05%
Ni 231.604†	1.1	0.00056	mg/L	0.000226	0.00056	mg/L	0.000226	40.48%
Pb 220.353†	2.9	0.00063	mg/L	0.000999	0.00063	mg/L	0.000999	159.01%
Sb 206.836†	11.2	0.00619	mg/L	0.000528	0.00619	mg/L	0.000528	8.53%
Se 196.026†	3.5	0.00495	mg/L	0.003282	0.00495	mg/L	0.003282	66.31%
Si 288.158†	-5.6	-0.00493	mg/L	0.001745	-0.00493	mg/L	0.001745	35.37%
Sn 189.927†	1.5	0.00087	mg/L	0.001620	0.00087	mg/L	0.001620	187.21%
Sr 421.552†	148.4	0.00023	mg/L	0.000066	0.00023	mg/L	0.000066	29.11%
Ti 334.903†	6.6	0.00060	mg/L	0.000315	0.00060	mg/L	0.000315	52.45%
Tl 190.801†	1.0	0.00095	mg/L	0.001470	0.00095	mg/L	0.001470	155.25%
V 292.402†	0.6	0.00001	mg/L	0.000097	0.00001	mg/L	0.000097	>999.9%
Zn 206.200†	1.1	0.00066	mg/L	0.000797	0.00066	mg/L	0.000797	121.31%

Sequence No.: 21
Sample ID: ATZ2 MB2 DMN
Dilution: 1.000000X

Autosampler Location: 315
Date Collected: 1/19/2016 11:41:18 AM
Data Type: Original

Nebulizer Parameters: ATZ2 MB2 DMN
Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATZ2 MB2 DMN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2355652.5		105.1 %	0.40				0.38%
ScR 361.383	186887.3		106.1 %	0.94				0.89%
Ag 328.068†	22.3	0.00014	mg/L	0.000173	0.00014	mg/L	0.000173	119.71%
Al 308.215†	17.3	0.01677	mg/L	0.004203	0.01677	mg/L	0.004203	25.06%
As 188.979†	1.1	0.00126	mg/L	0.000285	0.00126	mg/L	0.000285	22.60%
B 249.677†	7.9	0.00209	mg/L	0.000679	0.00209	mg/L	0.000679	32.47%
Ba 233.527†	-0.3	-0.00012	mg/L	0.000461	-0.00012	mg/L	0.000461	380.57%
Be 313.042†	1.7	0.00001	mg/L	0.000022	0.00001	mg/L	0.000022	393.39%
Ca 317.933†	253.1	0.03866	mg/L	0.000125	0.03866	mg/L	0.000125	0.32%
Cd 228.802†	-5.4	-0.00027	mg/L	0.000066	-0.00027	mg/L	0.000066	24.97%
Co 228.616†	11.6	0.00056	mg/L	0.000028	0.00056	mg/L	0.000028	5.10%
Cr 267.716†	0.7	0.00022	mg/L	0.000046	0.00022	mg/L	0.000046	21.19%
Cu 324.752†	-82.5	-0.00034	mg/L	0.000215	-0.00034	mg/L	0.000215	63.88%
Fe 273.955†	-0.8	-0.00135	mg/L	0.002013	-0.00135	mg/L	0.002013	149.04%
K 766.490†	27.0	0.01260	mg/L	0.004800	0.01260	mg/L	0.004800	38.08%
Mg 279.077†	-2.0	-0.00269	mg/L	0.002403	-0.00269	mg/L	0.002403	89.19%
Mn 257.610†	-3.3	-0.00019	mg/L	0.000077	-0.00019	mg/L	0.000077	40.16%
Mo 202.031†	-4.3	-0.00042	mg/L	0.000208	-0.00042	mg/L	0.000208	49.95%
Na 589.592†	449.4	0.03306	mg/L	0.000479	0.03306	mg/L	0.000479	1.45%
Na 330.237†	3.8	0.2441	mg/L	0.12801	0.2441	mg/L	0.12801	52.43%
Ni 231.604†	0.7	0.00037	mg/L	0.001372	0.00037	mg/L	0.001372	375.77%
Pb 220.353†	5.4	0.00117	mg/L	0.000875	0.00117	mg/L	0.000875	75.01%
Sb 206.836†	-3.6	-0.00197	mg/L	0.001727	-0.00197	mg/L	0.001727	87.60%
Se 196.026†	4.6	0.00637	mg/L	0.005285	0.00637	mg/L	0.005285	82.97%
Si 288.158†	-13.5	-0.01190	mg/L	0.005083	-0.01190	mg/L	0.005083	42.70%
Sn 189.927†	-0.8	-0.00043	mg/L	0.000739	-0.00043	mg/L	0.000739	171.01%
Sr 421.552†	167.3	0.00025	mg/L	0.000050	0.00025	mg/L	0.000050	19.45%
Ti 334.903†	-2.2	-0.00020	mg/L	0.000430	-0.00020	mg/L	0.000430	214.97%
Tl 190.801†	2.1	0.00203	mg/L	0.003500	0.00203	mg/L	0.003500	171.99%
V 292.402†	6.0	0.00005	mg/L	0.000033	0.00005	mg/L	0.000033	62.36%
Zn 206.200†	-0.3	-0.00016	mg/L	0.000974	-0.00016	mg/L	0.000974	613.96%

Sequence No.: 22
Sample ID: ATZ2 MB1 TWC
Dilution: 1.000000X

Autosampler Location: 316
Date Collected: 1/19/2016 11:45:19 AM
Data Type: Original

Nebulizer Parameters: ATZ2 MB1 TWC

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATZ2 MB1 TWC

Table with 8 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective intensity and concentration values.

Sequence No.: 23
Sample ID: ATZ4 MB1 TWC

Autosampler Location: 317
Date Collected: 1/19/2016 11:49:19 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ4 MB1 TWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.75 L/min

Mean Data: ATZ4 MB1 TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2314859.7		103.3 %	0.06				0.06%
ScR 361.383	182985.2		103.9 %	0.82				0.79%
Ag 328.068†	31.0	0.00020	mg/L	0.000191	0.00020	mg/L	0.000191	95.13%
Al 308.215†	1.8	0.00172	mg/L	0.002001	0.00172	mg/L	0.002001	116.46%
As 188.979†	1.6	0.00192	mg/L	0.002213	0.00192	mg/L	0.002213	115.14%
B 249.677†	-3.7	-0.00098	mg/L	0.001192	-0.00098	mg/L	0.001192	121.81%
Ba 233.527†	0.1	0.00003	mg/L	0.000337	0.00003	mg/L	0.000337	>999.9%
Be 313.042†	-10.6	-0.00003	mg/L	0.000031	-0.00003	mg/L	0.000031	87.44%
Ca 317.933†	62.2	0.00949	mg/L	0.001031	0.00949	mg/L	0.001031	10.86%
Cd 228.802†	-5.3	-0.00026	mg/L	0.000065	-0.00026	mg/L	0.000065	24.97%
Co 228.616†	0.1	0.00000	mg/L	0.000131	0.00000	mg/L	0.000131	>999.9%
Cr 267.716†	5.1	0.00168	mg/L	0.001533	0.00168	mg/L	0.001533	91.42%
Cu 324.752†	-74.3	-0.00030	mg/L	0.000191	-0.00030	mg/L	0.000191	62.80%
Fe 273.955†	1.4	0.00249	mg/L	0.001438	0.00249	mg/L	0.001438	57.82%
K 766.490†	63.8	0.02983	mg/L	0.016858	0.02983	mg/L	0.016858	56.51%
Mg 279.077†	1.9	0.00257	mg/L	0.003234	0.00257	mg/L	0.003234	125.75%
Mn 257.610†	1.5	0.00008	mg/L	0.000240	0.00008	mg/L	0.000240	286.27%
Mo 202.031†	1.1	0.00011	mg/L	0.000240	0.00011	mg/L	0.000240	226.38%
Na 589.592†	604.1	0.04444	mg/L	0.001462	0.04444	mg/L	0.001462	3.29%
Na 330.237†	2.5	0.1615	mg/L	0.21944	0.1615	mg/L	0.21944	135.85%
Ni 231.604†	-0.5	-0.00026	mg/L	0.000445	-0.00026	mg/L	0.000445	172.89%
Pb 220.353†	-3.4	-0.00073	mg/L	0.001353	-0.00073	mg/L	0.001353	185.91%
Sb 206.836†	4.7	0.00259	mg/L	0.000838	0.00259	mg/L	0.000838	32.39%
Se 196.026†	1.2	0.00168	mg/L	0.002584	0.00168	mg/L	0.002584	154.24%
Si 288.158†	-2.9	-0.00258	mg/L	0.003215	-0.00258	mg/L	0.003215	124.81%
Sn 189.927†	2.0	0.00111	mg/L	0.001462	0.00111	mg/L	0.001462	131.70%
Sr 421.552†	29.3	0.00004	mg/L	0.000014	0.00004	mg/L	0.000014	31.82%
Ti 334.903†	5.7	0.00051	mg/L	0.000496	0.00051	mg/L	0.000496	96.33%
Tl 190.801†	3.2	0.00306	mg/L	0.003192	0.00306	mg/L	0.003192	104.16%
V 292.402†	-9.5	-0.00008	mg/L	0.000118	-0.00008	mg/L	0.000118	153.72%
Zn 206.200†	12.0	0.00716	mg/L	0.000967	0.00716	mg/L	0.000967	13.50%

Sequence No.: 24
 Sample ID: ATZ2 A TWC
 Dilution: 1.000000X

Autosampler Location: 318
 Date Collected: 1/19/2016 11:53:18 AM
 Data Type: Original

Nebulizer Parameters: ATZ2 A TWC

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

Mean Data: ATZ2 A TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2100093.8	93.72	%	0.398			0.42%
ScR 361.383	171289.4	97.25	%	1.263			1.30%
Ag 328.068†	-28.2	-0.00018	mg/L	0.000292	-0.00018 mg/L	0.000292	165.07%
Al 308.215†	7652.3	7.436	mg/L	0.0868	7.436 mg/L	0.0868	1.17%
As 188.979†	19.1	0.02779	mg/L	0.002670	0.02779 mg/L	0.002670	9.61%
B 249.677†	1354.6	0.3579	mg/L	0.00554	0.3579 mg/L	0.00554	1.55%
Ba 233.527†	166.3	0.06968	mg/L	0.001229	0.06968 mg/L	0.001229	1.76%
Be 313.042†	50.9	0.00016	mg/L	0.000010	0.00016 mg/L	0.000010	6.09%
Ca 317.933†	322433.1	49.24	mg/L	0.149	49.24 mg/L	0.149	0.30%
Cd 228.802†	9.7	0.00027	mg/L	0.000143	0.00027 mg/L	0.000143	53.64%
Co 228.616†	111.9	0.00460	mg/L	0.000316	0.00460 mg/L	0.000316	6.87%
Cr 267.716†	84.7	0.01753	mg/L	0.000798	0.01753 mg/L	0.000798	4.55%
Cu 324.752†	13270.6	0.05378	mg/L	0.000615	0.05378 mg/L	0.000615	1.14%
Fe 273.955†	5594.0	9.800	mg/L	0.0972	9.800 mg/L	0.0972	0.99%
K 766.490†	66015.1	30.85	mg/L	0.173	30.85 mg/L	0.173	0.56%
Mg 279.077†	76914.0	104.2	mg/L	1.35	104.2 mg/L	1.35	1.29%
Mn 257.610†	4539.2	0.2616	mg/L	0.00278	0.2616 mg/L	0.00278	1.06%
Mo 202.031†	99.4	0.00871	mg/L	0.000396	0.00871 mg/L	0.000396	4.55%
Na 589.592†	10339750.4	760.7	mg/L	11.19	760.7 mg/L	11.19	1.47%
Na 330.237†	12391.7	804.5	mg/L	8.39	804.5 mg/L	8.39	1.04%
Ni 231.604†	31.7	0.01626	mg/L	0.001768	0.01626 mg/L	0.001768	10.87%
Pb 220.353†	88.0	0.02021	mg/L	0.000136	0.02021 mg/L	0.000136	0.67%
Sb 206.836†	9.2	0.00471	mg/L	0.001854	0.00471 mg/L	0.001854	39.34%
Se 196.026†	10.0	0.00767	mg/L	0.005337	0.00767 mg/L	0.005337	69.59%
Si 288.158†	18753.0	16.58	mg/L	0.370	16.58 mg/L	0.370	2.23%
Sn 189.927†	-50.8	-0.01741	mg/L	0.001902	-0.01741 mg/L	0.001902	10.93%
Sr 421.552†	411848.9	0.6277	mg/L	0.00134	0.6277 mg/L	0.00134	0.21%
Ti 334.903†	4734.2	0.4264	mg/L	0.00342	0.4264 mg/L	0.00342	0.80%
Tl 190.801†	2.4	0.00327	mg/L	0.001689	0.00327 mg/L	0.001689	51.64%
V 292.402†	2782.9	0.02383	mg/L	0.000105	0.02383 mg/L	0.000105	0.44%
Zn 206.200†	480.5	0.2903	mg/L	0.00220	0.2903 mg/L	0.00220	0.76%

Sequence No.: 25
Sample ID: ATZ2 B DMN

Autosampler Location: 319
Date Collected: 1/19/2016 11:57:55 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ2 B DMN

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: ATZ2 B DMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2171272.1	96.90	%	0.222			0.23%
ScR 361.383	176071.6	99.97	%	0.650			0.65%
Ag 328.068†	-36.5	-0.00024	mg/L	0.000249	-0.00024 mg/L	0.000249	105.12%
Al 308.215†	35.9	0.03475	mg/L	0.001638	0.03475 mg/L	0.001638	4.71%
As 188.979†	25.4	0.02408	mg/L	0.003045	0.02408 mg/L	0.003045	12.64%
B 249.677†	1380.1	0.3647	mg/L	0.00574	0.3647 mg/L	0.00574	1.57%
Ba 233.527†	72.9	0.03122	mg/L	0.000689	0.03122 mg/L	0.000689	2.21%
Be 313.042†	16.1	0.00005	mg/L	0.000025	0.00005 mg/L	0.000025	46.55%
Ca 317.933†	300407.6	45.87	mg/L	0.141	45.87 mg/L	0.141	0.31%
Cd 228.802†	4.7	0.00005	mg/L	0.000189	0.00005 mg/L	0.000189	344.69%
Co 228.616†	24.8	0.00118	mg/L	0.000143	0.00118 mg/L	0.000143	12.10%
Cr 267.716†	41.3	0.00340	mg/L	0.000912	0.00340 mg/L	0.000912	26.82%
Cu 324.752†	1550.4	0.00559	mg/L	0.000110	0.00559 mg/L	0.000110	1.97%
Fe 273.955†	9.3	0.01632	mg/L	0.004550	0.01632 mg/L	0.004550	27.88%
K 766.490†	66053.1	30.87	mg/L	0.071	30.87 mg/L	0.071	0.23%
Mg 279.077†	72588.6	98.30	mg/L	0.259	98.30 mg/L	0.259	0.26%
Mn 257.610†	1616.2	0.09307	mg/L	0.000690	0.09307 mg/L	0.000690	0.74%
Mo 202.031†	84.6	0.00733	mg/L	0.000517	0.00733 mg/L	0.000517	7.05%
Na 589.592†	10481097.0	771.1	mg/L	5.27	771.1 mg/L	5.27	0.68%
Na 330.237†	12533.7	813.6	mg/L	2.97	813.6 mg/L	2.97	0.37%
Ni 231.604†	3.1	0.00158	mg/L	0.000708	0.00158 mg/L	0.000708	44.89%
Pb 220.353†	-8.9	-0.00189	mg/L	0.001626	-0.00189 mg/L	0.001626	85.99%
Sb 206.836†	-7.7	-0.00469	mg/L	0.001975	-0.00469 mg/L	0.001975	42.12%
Se 196.026†	14.7	0.01589	mg/L	0.001824	0.01589 mg/L	0.001824	11.48%
Si 288.158†	6781.4	5.996	mg/L	0.0805	5.996 mg/L	0.0805	1.34%
Sn 189.927†	-52.7	-0.01920	mg/L	0.000707	-0.01920 mg/L	0.000707	3.68%
Sr 421.552†	395668.4	0.6030	mg/L	0.00175	0.6030 mg/L	0.00175	0.29%
Ti 334.903†	67.2	0.00300	mg/L	0.000474	0.00300 mg/L	0.000474	15.80%
Tl 190.801†	3.0	0.00287	mg/L	0.002363	0.00287 mg/L	0.002363	82.29%
V 292.402†	138.2	0.00128	mg/L	0.000040	0.00128 mg/L	0.000040	3.15%
Zn 206.200†	142.1	0.08606	mg/L	0.001656	0.08606 mg/L	0.001656	1.92%

Sequence No.: 26
 Sample ID: ATSO F FRN

Autosampler Location: 320
 Date Collected: 1/19/2016 12:02:32 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATSO F FRN

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

Mean Data: ATSO F FRN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2198476.3	98.11 %	0.200			0.20%
ScR 361.383	174979.5	99.35 %	1.076			1.08%
Ag 328.068†	21.1	0.00014 mg/L	0.000132	0.00014 mg/L	0.000132	95.55%
Al 308.215†	841.6	0.8177 mg/L	0.01039	0.8177 mg/L	0.01039	1.27%
As 188.979†	46.4	0.05347 mg/L	0.003527	0.05347 mg/L	0.003527	6.60%
B 249.677†	725.7	0.1918 mg/L	0.00061	0.1918 mg/L	0.00061	0.32%
Ba 233.527†	11.1	0.00452 mg/L	0.000938	0.00452 mg/L	0.000938	20.77%
Be 313.042†	-5.3	-0.00002 mg/L	0.000043	-0.00002 mg/L	0.000043	232.20%
Ca 317.933†	132777.3	20.28 mg/L	0.025	20.28 mg/L	0.025	0.12%
Cd 228.802†	301.5	0.01403 mg/L	0.000167	0.01403 mg/L	0.000167	1.19%
Co 228.616†	34.0	0.00155 mg/L	0.000178	0.00155 mg/L	0.000178	11.43%
Cr 267.716†	28.0	0.00591 mg/L	0.000542	0.00591 mg/L	0.000542	9.18%
Cu 324.752†	8877.9	0.03564 mg/L	0.000144	0.03564 mg/L	0.000144	0.40%
Fe 273.955†	822.8	1.441 mg/L	0.0069	1.441 mg/L	0.0069	0.48%
K 766.490†	184302.0	86.14 mg/L	0.493	86.14 mg/L	0.493	0.57%
Mg 279.077†	23807.1	32.24 mg/L	0.170	32.24 mg/L	0.170	0.53%
Mn 257.610†	1265.1	0.07290 mg/L	0.000543	0.07290 mg/L	0.000543	0.74%
Mo 202.031†	93.7	0.00868 mg/L	0.000047	0.00868 mg/L	0.000047	0.54%
Na 589.592†	3158774.1	232.4 mg/L	1.59	232.4 mg/L	1.59	0.69%
Na 330.237†	3677.7	238.6 mg/L	2.17	238.6 mg/L	2.17	0.91%
Ni 231.604†	10.3	0.00529 mg/L	0.000175	0.00529 mg/L	0.000175	3.31%
Pb 220.353†	13.4	0.00298 mg/L	0.002114	0.00298 mg/L	0.002114	70.99%
Sb 206.836†	3.6	0.00176 mg/L	0.000391	0.00176 mg/L	0.000391	22.24%
Se 196.026†	18.4	0.02408 mg/L	0.003053	0.02408 mg/L	0.003053	12.68%
Si 288.158†	552.1	0.4883 mg/L	0.03260	0.4883 mg/L	0.03260	6.68%
Sn 189.927†	-22.6	-0.00811 mg/L	0.002506	-0.00811 mg/L	0.002506	30.90%
Sr 421.552†	146614.2	0.2234 mg/L	0.00170	0.2234 mg/L	0.00170	0.76%
Ti 334.903†	479.7	0.04216 mg/L	0.000429	0.04216 mg/L	0.000429	1.02%
Tl 190.801†	2.3	0.00238 mg/L	0.003610	0.00238 mg/L	0.003610	151.61%
V 292.402†	396.7	0.00344 mg/L	0.000030	0.00344 mg/L	0.000030	0.87%
Zn 206.200†	811.1	0.4851 mg/L	0.00488	0.4851 mg/L	0.00488	1.01%

Sequence No.: 27
 Sample ID: ATZ4 B TWC

Autosampler Location: 321
 Date Collected: 1/19/2016 12:06:49 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ4 B TWC

Analyte Back Pressure Flow
 All 171.0 kPa 0.75 L/min

Mean Data: ATZ4 B TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2304300.8	102.8	%	0.48				0.46%
ScR 361.383	182049.7	103.4	%	0.44				0.43%
Ag 328.068†	21.4	0.00014	mg/L	0.000077	0.00014	mg/L	0.000077	55.23%
Al 308.215†	1427.9	1.388	mg/L	0.0083	1.388	mg/L	0.0083	0.60%
As 188.979†	5.7	0.00636	mg/L	0.004444	0.00636	mg/L	0.004444	69.83%
B 249.677†	58.7	0.01551	mg/L	0.000824	0.01551	mg/L	0.000824	5.31%
Ba 233.527†	27.9	0.01184	mg/L	0.000451	0.01184	mg/L	0.000451	3.81%
Be 313.042†	-4.6	-0.00002	mg/L	0.000008	-0.00002	mg/L	0.000008	48.60%
Ca 317.933†	58374.2	8.919	mg/L	0.0021	8.919	mg/L	0.0021	0.02%
Cd 228.802†	-8.2	-0.00043	mg/L	0.000155	-0.00043	mg/L	0.000155	35.90%
Co 228.616†	10.7	0.00046	mg/L	0.000204	0.00046	mg/L	0.000204	44.02%
Cr 267.716†	5.6	0.00151	mg/L	0.000561	0.00151	mg/L	0.000561	37.12%
Cu 324.752†	937.2	0.00382	mg/L	0.000132	0.00382	mg/L	0.000132	3.46%
Fe 273.955†	439.1	0.7693	mg/L	0.00294	0.7693	mg/L	0.00294	0.38%
K 766.490†	7341.1	3.431	mg/L	0.0211	3.431	mg/L	0.0211	0.62%
Mg 279.077†	2287.2	3.096	mg/L	0.0156	3.096	mg/L	0.0156	0.50%
Mn 257.610†	273.1	0.01571	mg/L	0.000161	0.01571	mg/L	0.000161	1.02%
Mo 202.031†	26.7	0.00241	mg/L	0.000073	0.00241	mg/L	0.000073	3.03%
Na 589.592†	49478.8	3.640	mg/L	0.0224	3.640	mg/L	0.0224	0.62%
Na 330.237†	67.6	4.396	mg/L	0.1904	4.396	mg/L	0.1904	4.33%
Ni 231.604†	7.1	0.00363	mg/L	0.001916	0.00363	mg/L	0.001916	52.82%
Pb 220.353†	7.1	0.00182	mg/L	0.001388	0.00182	mg/L	0.001388	76.23%
Sb 206.836†	9.8	0.00534	mg/L	0.001117	0.00534	mg/L	0.001117	20.91%
Se 196.026†	1.2	0.00123	mg/L	0.007812	0.00123	mg/L	0.007812	634.44%
Si 288.158†	5505.6	4.868	mg/L	0.0193	4.868	mg/L	0.0193	0.40%
Sn 189.927†	-14.4	-0.00606	mg/L	0.001308	-0.00606	mg/L	0.001308	21.59%
Sr 421.552†	33784.2	0.05149	mg/L	0.000059	0.05149	mg/L	0.000059	0.11%
Ti 334.903†	320.2	0.02846	mg/L	0.000115	0.02846	mg/L	0.000115	0.40%
Tl 190.801†	-0.1	-0.00002	mg/L	0.003204	-0.00002	mg/L	0.003204	>999.9%
V 292.402†	269.7	0.00232	mg/L	0.000175	0.00232	mg/L	0.000175	7.56%
Zn 206.200†	7.6	0.00540	mg/L	0.001422	0.00540	mg/L	0.001422	26.36%

Sequence No.: 28
Sample ID: ATZ4 MB1SPK TWC

Autosampler Location: 322
Date Collected: 1/19/2016 12:10:48 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ4 MB1SPK TWC

Analyte Back Pressure Flow
All 172.0 kPa 0.75 L/min

Mean Data: ATZ4 MB1SPK TWC

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	2276867.9	101.6	%	0.28			0.27%
ScR 361.383	179415.6	101.9	%	0.25			0.25%
Ag 328.068†	78018.2	0.5065	mg/L	0.00175	0.5065	mg/L	0.00175 0.35%
Al 308.215†	2056.0	1.991	mg/L	0.0147	1.991	mg/L	0.0147 0.74%
As 188.979†	1668.1	1.979	mg/L	0.0095	1.979	mg/L	0.0095 0.48%
B 249.677†	-0.5	-0.00133	mg/L	0.001037	-0.00133	mg/L	0.001037 78.09%
Ba 233.527†	4611.7	1.976	mg/L	0.0088	1.976	mg/L	0.0088 0.45%
Be 313.042†	140105.4	0.4625	mg/L	0.00273	0.4625	mg/L	0.00273 0.59%
Ca 317.933†	63940.5	9.769	mg/L	0.0351	9.769	mg/L	0.0351 0.36%
Cd 228.802†	10989.6	0.5121	mg/L	0.00162	0.5121	mg/L	0.00162 0.32%
Co 228.616†	10075.2	0.4836	mg/L	0.00124	0.4836	mg/L	0.00124 0.26%
Cr 267.716†	1496.7	0.4944	mg/L	0.00164	0.4944	mg/L	0.00164 0.33%
Cu 324.752†	116023.0	0.4739	mg/L	0.00151	0.4739	mg/L	0.00151 0.32%
Fe 273.955†	1169.5	2.045	mg/L	0.0117	2.045	mg/L	0.0117 0.57%
K 766.490†	20982.2	9.807	mg/L	0.0364	9.807	mg/L	0.0364 0.37%
Mg 279.077†	7126.9	9.651	mg/L	0.0364	9.651	mg/L	0.0364 0.38%
Mn 257.610†	8405.1	0.4853	mg/L	0.00107	0.4853	mg/L	0.00107 0.22%
Mo 202.031†	21.9	0.00194	mg/L	0.000261	0.00194	mg/L	0.000261 13.51%
Na 589.592†	131864.8	9.701	mg/L	0.0404	9.701	mg/L	0.0404 0.42%
Na 330.237†	166.5	10.66	mg/L	0.172	10.66	mg/L	0.172 1.61%
Ni 231.604†	937.8	0.4804	mg/L	0.00300	0.4804	mg/L	0.00300 0.62%
Pb 220.353†	9225.1	1.992	mg/L	0.0054	1.992	mg/L	0.0054 0.27%
Sb 206.836†	11.7	0.00103	mg/L	0.001620	0.00103	mg/L	0.001620 156.63%
Se 196.026†	1399.2	1.957	mg/L	0.0032	1.957	mg/L	0.0032 0.16%
Si 288.158†	11.3	0.01189	mg/L	0.007981	0.01189	mg/L	0.007981 67.11%
Sn 189.927†	-20.4	-0.00911	mg/L	0.003025	-0.00911	mg/L	0.003025 33.23%
Sr 421.552†	315660.6	0.4811	mg/L	0.00254	0.4811	mg/L	0.00254 0.53%
Ti 334.903†	15.6	0.00066	mg/L	0.000774	0.00066	mg/L	0.000774 117.68%
Tl 190.801†	2048.6	1.941	mg/L	0.0150	1.941	mg/L	0.0150 0.77%
V 292.402†	56214.8	0.4936	mg/L	0.00203	0.4936	mg/L	0.00203 0.41%
Zn 206.200†	778.6	0.4658	mg/L	0.00150	0.4658	mg/L	0.00150 0.32%

Sequence No.: 29

Sample ID: ATZ2 MB1SPK TWC

Autosampler Location: 323

Date Collected: 1/19/2016 12:15:03 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ2 MB1SPK TWC

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

Mean Data: ATZ2 MB1SPK TWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2275464.9	101.5 %	0.19			0.19%
ScR 361.383	180095.0	102.3 %	0.44			0.43%
Ag 328.068†	77831.9	0.5053 mg/L	0.00235	0.5053 mg/L	0.00235	0.46%
Al 308.215†	2039.8	1.975 mg/L	0.0190	1.975 mg/L	0.0190	0.96%
As 188.979†	1669.2	1.980 mg/L	0.0094	1.980 mg/L	0.0094	0.47%
B 249.677†	-0.1	-0.00121 mg/L	0.000822	-0.00121 mg/L	0.000822	68.14%
Ba 233.527†	4573.0	1.959 mg/L	0.0138	1.959 mg/L	0.0138	0.71%
Be 313.042†	140640.0	0.4642 mg/L	0.00151	0.4642 mg/L	0.00151	0.33%
Ca 317.933†	61820.1	9.445 mg/L	0.0107	9.445 mg/L	0.0107	0.11%
Cd 228.802†	10935.6	0.5095 mg/L	0.00340	0.5095 mg/L	0.00340	0.67%
Co 228.616†	10050.7	0.4825 mg/L	0.00382	0.4825 mg/L	0.00382	0.79%
Cr 267.716†	1484.8	0.4905 mg/L	0.00504	0.4905 mg/L	0.00504	1.03%
Cu 324.752†	116556.5	0.4761 mg/L	0.00109	0.4761 mg/L	0.00109	0.23%
Fe 273.955†	1164.9	2.037 mg/L	0.0140	2.037 mg/L	0.0140	0.69%
K 766.490†	20674.2	9.663 mg/L	0.0347	9.663 mg/L	0.0347	0.36%
Mg 279.077†	7045.2	9.540 mg/L	0.0175	9.540 mg/L	0.0175	0.18%
Mn 257.610†	8266.3	0.4773 mg/L	0.00137	0.4773 mg/L	0.00137	0.29%
Mo 202.031†	20.4	0.00180 mg/L	0.000339	0.00180 mg/L	0.000339	18.84%
Na 589.592†	130957.0	9.634 mg/L	0.0129	9.634 mg/L	0.0129	0.13%
Na 330.237†	165.2	10.58 mg/L	0.271	10.58 mg/L	0.271	2.56%
Ni 231.604†	931.4	0.4771 mg/L	0.00623	0.4771 mg/L	0.00623	1.30%
Pb 220.353†	9184.3	1.983 mg/L	0.0103	1.983 mg/L	0.0103	0.52%
Sb 206.836†	9.9	0.00009 mg/L	0.002378	0.00009 mg/L	0.002378	>999.9%
Se 196.026†	1411.4	1.975 mg/L	0.0044	1.975 mg/L	0.0044	0.22%
Si 288.158†	3.5	0.00497 mg/L	0.000882	0.00497 mg/L	0.000882	17.74%
Sn 189.927†	-14.4	-0.00585 mg/L	0.001028	-0.00585 mg/L	0.001028	17.58%
Sr 421.552†	313185.8	0.4773 mg/L	0.00042	0.4773 mg/L	0.00042	0.09%
Ti 334.903†	9.0	0.00008 mg/L	0.000334	0.00008 mg/L	0.000334	433.17%
Tl 190.801†	2063.5	1.955 mg/L	0.0087	1.955 mg/L	0.0087	0.44%
V 292.402†	55951.0	0.4912 mg/L	0.00270	0.4912 mg/L	0.00270	0.55%
Zn 206.200†	775.3	0.4638 mg/L	0.00524	0.4638 mg/L	0.00524	1.13%

Sequence No.: 30
Sample ID: ATZ2 MB2SPK DMN

Autosampler Location: 324
Date Collected: 1/19/2016 12:19:03 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: ATZ2 MB2SPK DMN

Analyte Back Pressure Flow
All 172.0 kPa 0.75 L/min

Mean Data: ATZ2 MB2SPK DMN

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2325895.2		103.8 %	0.62				0.59%
ScR 361.383	182571.7		103.7 %	1.44				1.39%
Ag 328.068†	82284.8		0.5342 mg/L	0.00252	0.5342 mg/L	0.00252		0.47%
Al 308.215†	2146.4		2.079 mg/L	0.0162	2.079 mg/L	0.0162		0.78%
As 188.979†	1804.4		2.141 mg/L	0.0179	2.141 mg/L	0.0179		0.84%
B 249.677†	10.5		0.00152 mg/L	0.001314	0.00152 mg/L	0.001314		86.28%
Ba 233.527†	4748.4		2.034 mg/L	0.0157	2.034 mg/L	0.0157		0.77%
Be 313.042†	144658.6		0.4775 mg/L	0.00365	0.4775 mg/L	0.00365		0.77%
Ca 317.933†	66474.5		10.16 mg/L	0.119	10.16 mg/L	0.119		1.18%
Cd 228.802†	11929.7		0.5559 mg/L	0.00217	0.5559 mg/L	0.00217		0.39%
Co 228.616†	10514.6		0.5047 mg/L	0.00327	0.5047 mg/L	0.00327		0.65%
Cr 267.716†	1547.1		0.5110 mg/L	0.00362	0.5110 mg/L	0.00362		0.71%
Cu 324.752†	117746.5		0.4810 mg/L	0.00080	0.4810 mg/L	0.00080		0.17%
Fe 273.955†	1214.0		2.123 mg/L	0.0211	2.123 mg/L	0.0211		1.00%
K 766.490†	21956.0		10.26 mg/L	0.038	10.26 mg/L	0.038		0.37%
Mg 279.077†	7466.1		10.11 mg/L	0.082	10.11 mg/L	0.082		0.81%
Mn 257.610†	8711.5		0.5030 mg/L	0.00556	0.5030 mg/L	0.00556		1.10%
Mo 202.031†	15.3		0.00130 mg/L	0.000349	0.00130 mg/L	0.000349		26.95%
Na 589.592†	137181.1		10.09 mg/L	0.022	10.09 mg/L	0.022		0.22%
Na 330.237†	164.6		10.53 mg/L	0.238	10.53 mg/L	0.238		2.26%
Ni 231.604†	970.3		0.4971 mg/L	0.00453	0.4971 mg/L	0.00453		0.91%
Pb 220.353†	9732.5		2.101 mg/L	0.0069	2.101 mg/L	0.0069		0.33%
Sb 206.836†	6.5		-0.00203 mg/L	0.000885	-0.00203 mg/L	0.000885		43.56%
Se 196.026†	1683.1		2.355 mg/L	0.0136	2.355 mg/L	0.0136		0.58%
Si 288.158†	-6.1		-0.00338 mg/L	0.004887	-0.00338 mg/L	0.004887		144.47%
Sn 189.927†	-17.4		-0.00734 mg/L	0.000286	-0.00734 mg/L	0.000286		3.89%
Sr 421.552†	324941.2		0.4952 mg/L	0.00156	0.4952 mg/L	0.00156		0.32%
Ti 334.903†	17.2		0.00077 mg/L	0.000387	0.00077 mg/L	0.000387		49.88%
Tl 190.801†	2183.8		2.069 mg/L	0.0168	2.069 mg/L	0.0168		0.81%
V 292.402†	57539.5		0.5052 mg/L	0.00273	0.5052 mg/L	0.00273		0.54%
Zn 206.200†	828.7		0.4957 mg/L	0.00349	0.4957 mg/L	0.00349		0.70%

Sequence No.: 31
Sample ID: CV 3

Autosampler Location: 7
Date Collected: 1/19/2016 12:23:18 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
All 171.0 kPa 0.75 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2254859.7	100.6	%	0.49				0.48%
ScR 361.383	174958.8	99.34	%	0.367				0.37%
Ag 328.068†	158336.1	1.028	mg/L	0.0105	1.028	mg/L	0.0105	1.03%
Al 308.215†	2088.3	1.997	mg/L	0.0058	1.997	mg/L	0.0058	0.29%
As 188.979†	1660.5	1.995	mg/L	0.0122	1.995	mg/L	0.0122	0.61%
B 249.677†	3687.6	0.9732	mg/L	0.00508	0.9732	mg/L	0.00508	0.52%
Ba 233.527†	2352.0	1.007	mg/L	0.0047	1.007	mg/L	0.0047	0.46%
Be 313.042†	293409.4	0.9685	mg/L	0.00183	0.9685	mg/L	0.00183	0.19%
Ca 317.933†	13380.1	2.043	mg/L	0.0093	2.043	mg/L	0.0093	0.45%
Cd 228.802†	22089.4	1.041	mg/L	0.0116	1.041	mg/L	0.0116	1.12%
Co 228.616†	20597.3	0.9873	mg/L	0.00578	0.9873	mg/L	0.00578	0.59%
Cr 267.716†	3088.9	1.022	mg/L	0.0033	1.022	mg/L	0.0033	0.33%
Cu 324.752†	242008.4	0.9881	mg/L	0.00201	0.9881	mg/L	0.00201	0.20%
Fe 273.955†	1188.1	2.074	mg/L	0.0119	2.074	mg/L	0.0119	0.57%
K 766.490†	42716.5	19.97	mg/L	0.075	19.97	mg/L	0.075	0.38%
Mg 279.077†	1468.1	1.995	mg/L	0.0069	1.995	mg/L	0.0069	0.34%
Mn 257.610†	17757.7	1.025	mg/L	0.0073	1.025	mg/L	0.0073	0.71%
Mo 202.031†	10439.3	1.009	mg/L	0.0050	1.009	mg/L	0.0050	0.50%
Na 589.592†	672058.8	49.44	mg/L	0.118	49.44	mg/L	0.118	0.24%
Na 330.237†	792.2	51.37	mg/L	0.187	51.37	mg/L	0.187	0.36%
Ni 231.604†	1901.5	0.9762	mg/L	0.00328	0.9762	mg/L	0.00328	0.34%
Pb 220.353†	9505.5	2.053	mg/L	0.0138	2.053	mg/L	0.0138	0.67%
Sb 206.836†	3722.3	2.047	mg/L	0.0126	2.047	mg/L	0.0126	0.62%
Se 196.026†	1444.8	2.021	mg/L	0.0103	2.021	mg/L	0.0103	0.51%
Si 288.158†	2305.5	2.038	mg/L	0.0117	2.038	mg/L	0.0117	0.57%
Sn 189.927†	1749.9	0.9773	mg/L	0.00676	0.9773	mg/L	0.00676	0.69%
Sr 421.552†	647943.8	0.9875	mg/L	0.00251	0.9875	mg/L	0.00251	0.25%
Ti 334.903†	11317.5	1.026	mg/L	0.0051	1.026	mg/L	0.0051	0.50%
Tl 190.801†	2084.2	1.971	mg/L	0.0115	1.971	mg/L	0.0115	0.58%
V 292.402†	113441.6	0.9960	mg/L	0.01089	0.9960	mg/L	0.01089	1.09%
Zn 206.200†	1626.0	0.9727	mg/L	0.00500	0.9727	mg/L	0.00500	0.51%

Sequence No.: 32

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 1/19/2016 12:27:20 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2278597.6	101.7 %	0.39			0.38%
ScR 361.383	179257.9	101.8 %	0.50			0.49%
Ag 328.068†	8.9	0.00006 mg/L	0.000092	0.00006 mg/L	0.000092	159.83%
Al 308.215†	0.9	0.00084 mg/L	0.007215	0.00084 mg/L	0.007215	857.92%
As 188.979†	0.7	0.00078 mg/L	0.001651	0.00078 mg/L	0.001651	211.45%
B 249.677†	4.1	0.00108 mg/L	0.000539	0.00108 mg/L	0.000539	49.86%
Ba 233.527†	-1.1	-0.00045 mg/L	0.000408	-0.00045 mg/L	0.000408	90.23%
Be 313.042†	13.3	0.00004 mg/L	0.000037	0.00004 mg/L	0.000037	84.21%
Ca 317.933†	-1.5	-0.00024 mg/L	0.000385	-0.00024 mg/L	0.000385	163.45%
Cd 228.802†	-2.5	-0.00012 mg/L	0.000071	-0.00012 mg/L	0.000071	57.18%
Co 228.616†	5.6	0.00027 mg/L	0.000063	0.00027 mg/L	0.000063	23.62%
Cr 267.716†	0.3	0.00009 mg/L	0.000189	0.00009 mg/L	0.000189	207.75%
Cu 324.752†	-129.9	-0.00053 mg/L	0.000170	-0.00053 mg/L	0.000170	31.99%
Fe 273.955†	0.2	0.00032 mg/L	0.001250	0.00032 mg/L	0.001250	384.78%
K 766.490†	41.5	0.01938 mg/L	0.010394	0.01938 mg/L	0.010394	53.63%
Mg 279.077†	-2.0	-0.00267 mg/L	0.005837	-0.00267 mg/L	0.005837	218.60%
Mn 257.610†	1.3	0.00007 mg/L	0.000049	0.00007 mg/L	0.000049	66.16%
Mo 202.031†	15.9	0.00154 mg/L	0.000636	0.00154 mg/L	0.000636	41.40%
Na 589.592†	486.1	0.03576 mg/L	0.001757	0.03576 mg/L	0.001757	4.91%
Na 330.237†	4.2	0.2733 mg/L	0.08564	0.2733 mg/L	0.08564	31.33%
Ni 231.604†	1.6	0.00083 mg/L	0.001396	0.00083 mg/L	0.001396	167.23%
Pb 220.353†	5.8	0.00126 mg/L	0.000483	0.00126 mg/L	0.000483	38.50%
Sb 206.836†	10.4	0.00574 mg/L	0.003588	0.00574 mg/L	0.003588	62.51%
Se 196.026†	1.8	0.00246 mg/L	0.003185	0.00246 mg/L	0.003185	129.37%
Si 288.158†	-2.2	-0.00195 mg/L	0.001544	-0.00195 mg/L	0.001544	79.08%
Sn 189.927†	0.9	0.00049 mg/L	0.001563	0.00049 mg/L	0.001563	316.17%
Sr 421.552†	77.0	0.00012 mg/L	0.000037	0.00012 mg/L	0.000037	31.88%
Ti 334.903†	1.7	0.00015 mg/L	0.000284	0.00015 mg/L	0.000284	183.26%
Tl 190.801†	0.9	0.00084 mg/L	0.002936	0.00084 mg/L	0.002936	349.06%
V 292.402†	1.4	0.00001 mg/L	0.000131	0.00001 mg/L	0.000131	996.14%
Zn 206.200†	-0.3	-0.00019 mg/L	0.000709	-0.00019 mg/L	0.000709	368.35%

Table of Contents: ARI Job AVB4, AVB5

Client: Anchor QEA, LLC

Project: Port Gamble Clean-up

	Page From:	Page To:
Inventory Sheet		
Cover Letter	<u>1</u>	<u>1</u>
Chain of Custody Documentation	<u>2</u>	<u>8</u>
Case Narrative, Data Qualifiers, Control Limits	<u>9</u>	<u>16</u>
General Chemistry Analysis		
Report and Summary QC Forms	<u>17</u>	<u>19</u>
Total Solids		
Report and Summary QC Forms	<u>NA</u>	<u>NA</u>
General Chemistry Raw Data		
Analyst Notes and Raw Data	<u>20</u>	<u>23</u>

 A
Signature

February-02-2016
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 2, 2016

Cindy Fields
Anchor QEA
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: Project: Port Gamble Clean-up
ARI Job Nos.: AVB4 & AVB5

Dear Ms. Fields:

Please find enclosed the Chain-of-Custody records (COCs), sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details regarding requested analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

A handwritten signature in black ink, appearing to read "Cheronne Oreiro".

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile: AVB4_AVB5

Enclosures

Chain of Custody Documentation

ARI Job ID: AVB4, AVB5

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com



Page: 1 of 1
 Date: 01/16 Ice Present? Yes
 No. of Coolers: 2 Cooler Temps: 0.6, 0.9°C

ARI Assigned Number: ATSP Turn-around Requested: Standard
 ARI Client Company: Anchor OEA Phone: 206-287-9130
 Client Contact: Cindy Fields

Client Project Name: Port Gambble Clean-up
 Client Project #: 1SD 388-01-01
 Samplers: J. Florer, R.D. Rowke

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested				Notes/Comments	
					Lipids	PCBs	Dioxin/Furans	Cadmium		PATH (SIM)
PG-SMA2-2-MUS-COC-160104	01/07/16	1400	Tissue	1	X	X	X	X	X	Composite 2 bags per sample
PG-PJ-1-MUS-COC-160104	0900			1	X	X	X	X	X	"
PG-WS-1-MUS-COC-160104	1145			1	X	X	X	X	X	"
PG-GF-1-MUS-COC-160104	1010			1	X	X	X	X	X	"
PG-SMA2-5-MUS-COC-160104	1600			1	X	X	X	X	X	"
PG-SMA2-4-MUS-COC-160105	0940		tissue	1	X	X	X	X	X	"

Comments/Special Instructions: Rinse, shuck & composite, homogenize all mussels for each sample.

Relinquished by: J. Florer (Signature) Received by: Tyler Rankin (Signature)
 Printed Name: Joanna Florer Printed Name: Tyler Rankin
 Company: Anchor OEA Company: ARI
 Date & Time: 1/6/15 1033 Date & Time: 1/6/15 1033

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



Cooler Receipt Form

ARI Client: Anchor QEA

Project Name: Port Gamble Clean-Up

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: ATSØ

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.6 0.9

Time: _____

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: D005276

Cooler Accepted by: TR Date: 1-6-16 Time: 1033

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TR Date: 1-6-16 Time: 1043

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____

<p>Small Air Bubbles ~2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	Small → "sm" (< 2 mm)
			Peabubbles → "pb" (2 to < 4 mm)
			Large → "lg" (4 to < 6 mm)
			Headspace → "hs" (> 6 mm)



Cooler Receipt Form

ARI Client: Anchor
 COC No(s): _____ (NA)
 Assigned ARI Job No: APR4

Project Name: Port Gamble Clean-up
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
 Were custody papers included with the cooler? YES (NO)
 Were custody papers properly filled out (ink, signed, etc.) YES (NO)

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
 Time: 5:2

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DO025105

Cooler Accepted by: W Date: 11/2/15 Time: 11:28

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: foil
 Was sufficient ice used (if appropriate)? NA YES (NO)
 Were all bottles sealed in individual plastic bags? YES (NO)
 Did all bottles arrive in good condition (unbroken)? YES (NO)
 Were all bottle labels complete and legible? YES (NO)
 Did the number of containers listed on COC match with the number of containers received? YES (NO)
 Did all bottle labels and tags agree with custody papers? YES (NO)
 Were all bottles used correct for the requested analyses? YES (NO)
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES (NO)
 Were all VOC vials free of air bubbles? (NA) YES (NO)
 Was sufficient amount of sample sent in each bottle? YES (NO)
 Date VOC Trip Blank was made at ARI... (NA)
 Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

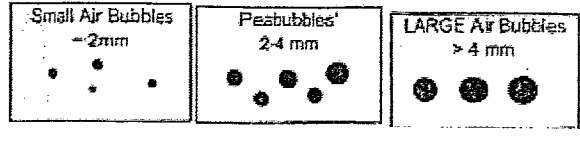
Samples Logged by: W Date: 11/2/15 Time: 11:20

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Small → "sm" (< 2 mm)
 Peabubbles → "pb" (2 to < 4 mm)
 Large → "lg" (4 to < 6 mm)
 Headspace → "hs" (> 6 mm)



Cooler Receipt Form

ARI Client: ARCHON VEA

Project Name: _____

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: AUA2

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____

Time: 1100 0.1

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 2005276

Cooler Accepted by: A Date: 12-10-15 Time: 1100

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI... NA

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: CA Date: 1/13/16 Time: 1117

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

NO COC RECEIVED

By: W Date: 12/10/15

<p>Small Air Bubbles ~2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	<p>Small → "sm" (< 2 mm)</p> <p>Peabubbles → "pb" (2 to < 4 mm)</p> <p>Large → "lg" (4 to < 6 mm)</p> <p>Headspace → "hs" (> 6 mm)</p>
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Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: AVB4, AVB5



Case Narrative

Client: Anchor QEA
Project: Port Gamble Clean-up
ARI Job Nos.: AVB4 & AVB5

Sample Receipt

Ten tissue samples were removed from frozen archive on January 29, 2016 under ARI jobs AVB4 and AVB5. The samples were analyzed for total solids, as requested. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Total Solids by SM2540G

The samples were prepared and analyzed within method recommended holding times for samples stored frozen.

The replicate RPD was within control limits.

Sample ID Cross Reference Report



ARI Job No: AVB4
Client: Anchor QEA, LLC
Project Event: N/A
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. 13EB_ME-MTW01Z	AVB4A	16-1333	Tissue	01/07/13	12/18/15 11:00
2. 13CPS_DB-MTW01Z	AVB4B	16-1334	Tissue	01/10/13	12/18/15 11:00
3. 13NPS_CIAR2-MTW01Z	AVB4C	16-1335	Tissue	01/14/13	12/18/15 11:00

Sample ID Cross Reference Report



ARI Job No: AVB5
Client: Anchor QEA, LLC
Project Event: Port Gamble Clean-up
Project Name: N/A

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. PG-T0-MUS-COC-151030	AVB5A	16-1344	Tissue	10/30/15 15:00	11/02/15 11:28
2. PG-SMA2-2-MUS-COC-160104AVB5B	AVB5B	16-1345	Tissue	01/04/16 14:00	01/04/16 11:28
3. PG-PJ-1-MUS-COC-160104 AVB5C	AVB5C	16-1346	Tissue	01/04/16 09:00	01/04/16 11:28
4. PG-WS-1-MUS-COC-160104 AVB5D	AVB5D	16-1347	Tissue	01/04/16 11:45	01/04/16 11:28
5. PG-GP-1-MUS-COC-160104 AVB5E	AVB5E	16-1348	Tissue	01/04/16 10:10	01/04/16 11:28
6. PG-SMA2-5-MUS-COC-160104AVB5F	AVB5F	16-1349	Tissue	01/04/16 16:00	01/04/16 11:28
7. PG-SMA2-4-MUS-COC-160105AVB5G	AVB5G	16-1350	Tissue	01/04/16 16:00	01/04/16 11:28



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria"
(Dioxin/Furan analysis only)
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X Analyte signal includes interference from polychlorinated diphenyl ethers.
(Dioxin/Furan analysis only)
- Z Analyte signal includes interference from the sample matrix or perfluorokerosene ions. **(Dioxin/Furan analysis only)**



Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Analytical Method Information

Printed: 02/02/2016 1:03 pm

Solids, Fixed SM 2540 G-97 Solid in Solid (SM 2540 G-97)

Preservation: Cool <6°C

Container: HDPE NM, 1000 mL

Amount Required: 1000 mL

Hold Time: 7 days

Analyte	MDL	Reporting Limit	Surrogate %Rec	Duplicate RPD	----Matrix Spike---- %Rec	RPD	--Blank Spike / LCS-- %Rec	RPD
Fixed Solids		1.00 mg/L		20				

General Chemistry Analysis
Report and Summary QC Forms

ARI Job ID: AVB4, AVB5

TOTAL SOLIDS ANALYSIS DATA SHEET
Total Solids by Method SM2540G



Data Release Authorized:
Reported: 02/02/16
Date Received: 12/18/15
Page 1 of 1

QC Report No: AVB4-Anchor QEA, LLC
Project:

Client/ ARI ID	Date Sampled	Matrix	Analysis Date	RL	Result
13EB_ME-MTW01Z AVB4A 16-1333	01/07/13	Tissue	02/01/16	0.01	15.89 %
13CPS_DB-MTW01Z AVB4B 16-1334	01/10/13	Tissue	02/01/16	0.01	15.47 %
13NPS_CIAR2-MTW01Z AVB4C 16-1335	01/14/13	Tissue	02/01/16	0.01	15.50 %

Results Are On A Wet Weight Basis

RL-Analytical reporting limit
U-Undetected at reported detection limit

TOTAL SOLIDS ANALYSIS DATA SHEET
Total Solids by Method SM2540G



Data Release Authorized:
 Reported: 02/02/16
 Date Received: 11/02/15
 Page 1 of 1

QC Report No: AVB5-Anchor QEA, LLC
 Project:
 Port Gamble Clean-up

Client/ ARI ID	Date Sampled	Matrix	Analysis Date	RL	Result
PG-T0-MUS-COC-151030 AVB5A 16-1344	10/30/15	Tissue	02/01/16	0.01	17.55 %
PG-SMA2-2-MUS-COC-160104 AVB5B 16-1345	01/04/16	Tissue	02/01/16	0.01	17.35 %
PG-PJ-1-MUS-COC-160104 AVB5C 16-1346	01/04/16	Tissue	02/01/16	0.01	14.33 %
PG-WS-1-MUS-COC-160104 AVB5D 16-1347	01/04/16	Tissue	02/01/16	0.01	17.40 %
PG-GP-1-MUS-COC-160104 AVB5E 16-1348	01/04/16	Tissue	02/01/16	0.01	16.32 %
PG-GP-1-MUS-COC-160104 DUP AVB5EDUP 16-1348	01/04/16	Tissue	02/01/16	0.01	16.30 % RPD: 0.1 %
PG-SMA2-5-MUS-COC-160104 AVB5F 16-1349	01/04/16	Tissue	02/01/16	0.01	14.73 %
PG-SMA2-4-MUS-COC-160105 AVB5G 16-1350	01/04/16	Tissue	02/01/16	0.01	13.56 %

Results Are On A Wet Weight Basis

RL-Analytical reporting limit
 U-Undetected at reported detection limit

General Chemistry Raw Data
Analyst Notes and Raw Data

ARI Job ID: AVB4, AVB5

Extractions Tissue Total Solids-tissts
Data By: Jim Hawk
Created: 2/ 1/16

Worklist: 7507
Analyst: JBH
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH	RPD
1. AVB4A	1.15	11.85	2.85	15.89	NR	
2. AVB4B	1.15	12.14	2.85	15.47	NR	
3. AVB4C	1.16	12.00	2.84	15.50	NR	

Extractions Tissue Total Solids-tissts
Data By: Jim Hawk
Created: 2/ 1/16

Worklist: 7507
Analyst: JBH
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH	RPD
1. AVB4A	1.15	11.85	2.85			NR
2. AVB4B	1.15	12.14	2.85			NR
3. AVB4C	1.16	12.04	2.84			NR

02/01/16 in oven 15:45 101°C
2/2/16 in Dessic. @ 725
2/2/16 out of oven @ 725 103°

Extractions Tissue Total Solids-tissts
 Data By: Jim Hawk
 Created: 2/ 1/16

Worklist: 7511
 Analyst: JBH
 Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH	RPD
1. AVB5A	1.18 ^{4/11/8}	12.24 ¹²	3.10			NR
2. AVB5B	1.16	12.17 ^{7/15}	3.07			NR
3. AVB5C	1.16	12.65	2.84 ^{2/2/16}	2.72		NR
4. AVB5D	1.15	12.13	3.06			NR
5. AVB5E	1.15	12.36	2.98			NR
6. AVB5E DUP	1.15	12.13	2.94			NR
7. AVB5F	1.16	12.50	2.83			NR
8. AVB5G	1.18	12.02	2.65			NR

02/01/16 in oven 15:45 101 °C
 2/2/16 out oven 4725 103 °C
 2/2/16 IN Dess. 0725



Prepared for: Anchor QEA, LLC

Project: Port Gamble Clean-up

Analytical Data Package

Analysis: PCB Congeners by EPA 1668A

Maxxam Job #: B612077

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
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Glossary of Terms

- **MDL** represents the Minimum Detection Limit below which the laboratory cannot confirm the presence of the analyte to the 95% confidence level.
- **RDL** represents the Reportable Detection Limit and is usually set at a value equivalent to the lowest calibration standard
- **Acceptance Criteria** are values used by the laboratory to determine that a process is in control.
- **Accuracy** is the degree of agreement of a measured value with the true or expected value.
- **Calibration Standards** are a set of solutions containing the analytes of interest at a specified concentration.
- **Calibration Verification Standard** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to access whether the initial calibration is still valid
- **Certified Reference Material** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.
- **Internal Standard** a deuterated or ¹³C-labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- **Isomer** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- **Method Blank** is a laboratory control sample using reagents that are known to be free of contamination.
- **Precision** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- **Quality Assurance** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- **Quality Control** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- **RSD** is the relative standard deviation.
- **Blank Spike** is a laboratory control sample that has been fortified with native analytes of interest.
- **Window Defining Mixture** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- **RPD** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- **EMPC/NDR** – Peak detected does not meet ratio criteria and has resulted in a higher detection limit.



1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd. Mississauga,
Ontario, Canada
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1-800-668-0639
www.maxxamanalytics.com

PROJECT NARRATIVE

Maxxam Analytics
Client Project #: APR4



Client: Anchor QEA, LLC
Client Project: APR4

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PCB Congeners in Tissue (1668A)						
BRP572	PG-T0-MUS-COC-151030	2015/10/30	2016/01/20	2016/02/11	2016/02/19	2016/02/11

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M Di Grazia

2016/02/25

Date



2.0 Summary Report

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



Your Project #: APR4
Site Location: PORT GAMBLE CLEAN-UP
Your C.O.C. #: NA

Attention:Anchor QEA Reporting Group

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA
USA 98101

Report Date: 2016/02/24
Report #: R3906622
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B612077

Received: 2016/01/20, 14:25

Sample Matrix: TISSUE
Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
PCB Congeners in Tissue (1668A)	1	2016/02/11	2016/02/19	BRL SOP-00408 BRL SOP-00409	EPA 1668A m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

U = Undetected at the limit of quantitation.

J = Estimated concentration between the EDL & RDL.

B = Blank Contamination.

Q = One or more quality control criteria failed.

E = Analyte concentration exceeds the maximum concentration level.

K = Estimated maximum possible concentration due to ion abundance ratio failure.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiGrazia, Project Manager - ATUT

Email: MDiGrazia@maxxam.ca

Phone# (905) 817-5700

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation is a NELAP accredited laboratory. Certificates #04012 and #4079-001. This certificate shall not be reproduced except in full, without the written approval of Maxxam.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng/g	0.00074 U	0.00074	0.0099	N/A	N/A	N/A	N/A	4386412
3-MonoCB-(2)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	4386412
4-MonoCB-(3)	ng/g	0.00074 U	0.00074	0.0099	N/A	N/A	N/A	N/A	4386412
22'-DiCB-(4)	ng/g	0.0058 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
2,3-DiCB-(5)	ng/g	0.0153	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
2,3'-DiCB-(6)	ng/g	0.00294 J	0.00088	0.0099	N/A	N/A	N/A	N/A	4386412
2,4-DiCB-(7)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
2,4'-DiCB-(8)	ng/g	0.00090 U	0.00090	0.0099	N/A	N/A	N/A	N/A	4386412
2,5-DiCB-(9)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	4386412
2,6-DiCB-(10)	ng/g	0.00092 U	0.00092	0.0099	N/A	N/A	N/A	N/A	4386412
3,3'-DiCB-(11)	ng/g	0.00912 J	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
DiCB-(12)+(13)	ng/g	0.00071 U (1)	0.00071	0.020	N/A	N/A	N/A	N/A	4386412
3,5-DiCB-(14)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	4386412
4,4'-DiCB-(15)	ng/g	0.0151	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'3-TriCB-(16)	ng/g	0.00881 J	0.00091	0.0099	N/A	N/A	N/A	N/A	4386412
22'4-TriCB-(17)	ng/g	0.00843 J	0.00092	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(18)+(30)	ng/g	0.0188 J	0.00074	0.020	N/A	N/A	N/A	N/A	4386412
22'6-TriCB-(19)	ng/g	0.00593 J	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(20) + (28)	ng/g	0.0844	0.00060	0.020	N/A	N/A	N/A	N/A	4386412
TriCB-(21)+(33)	ng/g	0.0190 J	0.00059	0.020	N/A	N/A	N/A	N/A	4386412
234'-TriCB-(22)	ng/g	0.0209	0.00063	0.0099	N/A	N/A	N/A	N/A	4386412
235-TriCB-(23)	ng/g	0.00070 U	0.00070	0.0099	N/A	N/A	N/A	N/A	4386412
236-TriCB-(24)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	4386412
23'4-TriCB-(25)	ng/g	0.00360 J	0.00058	0.0099	N/A	N/A	N/A	N/A	4386412
TriCB-(26)+(29)	ng/g	0.00698 J	0.00063	0.020	N/A	N/A	N/A	N/A	4386412
23'6-TriCB-(27)	ng/g	0.00274 J	0.00062	0.0099	N/A	N/A	N/A	N/A	4386412
24'5-TriCB-(31)	ng/g	0.0329	0.00055	0.0099	N/A	N/A	N/A	N/A	4386412
24'6-TriCB-(32)	ng/g	0.00904 J	0.00054	0.0099	N/A	N/A	N/A	N/A	4386412
23'5'-TriCB-(34)	ng/g	0.00068 U	0.00068	0.0099	N/A	N/A	N/A	N/A	4386412

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4-TriCB-(35)	ng/g	0.00077 J	0.00067	0.0099	N/A	N/A	N/A	N/A	4386412
33'5-TriCB-(36)	ng/g	0.00054 U	0.00054	0.0099	N/A	N/A	N/A	N/A	4386412
344'-TriCB-(37)	ng/g	0.0127	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
345-TriCB-(38)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	4386412
34'5-TriCB-(39)	ng/g	0.00067 U	0.00067	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(40)+(41)+(71)	ng/g	0.0280 J	0.0016	0.030	N/A	N/A	N/A	N/A	4386412
22'34'-TetraCB-(42)	ng/g	0.0149	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'35-TetraCB-(43)	ng/g	0.0034 J	0.0022	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(44)+(47)+(65)	ng/g	0.0523	0.0014	0.030	N/A	N/A	N/A	N/A	4386412
TetraCB-(45)+(51)	ng/g	0.0080 J	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
22'36'-TetraCB-(46)	ng/g	0.0040 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'45-TetraCB-(48)	ng/g	0.0128	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(49)+TetraCB-(69)	ng/g	0.0250	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
TetraCB-(50)+(53)	ng/g	0.0099 J	0.0014	0.020	N/A	N/A	N/A	N/A	4386412
22'55'-TetraCB-(52)	ng/g	0.0607	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'66'-TetraCB-(54)	ng/g	0.00063 U	0.00063	0.0099	N/A	N/A	N/A	N/A	4386412
233'4-TetraCB-(55)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'-Tetra CB(56)	ng/g	0.0026 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'5-TetraCB-(57)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
233'5'-TetraCB-(58)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(59)+(62)+(75)	ng/g	0.0052 U (1)	0.0052	0.030	N/A	N/A	N/A	N/A	4386412
2344'-TetraCB -(60)	ng/g	0.0026 J	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0301 J	0.0010	0.040	N/A	N/A	N/A	N/A	4386412
234'5-TetraCB-(63)	ng/g	0.00105 J	0.00089	0.0099	N/A	N/A	N/A	N/A	4386412
234'6-TetraCB-(64)	ng/g	0.0158	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'-TetraCB-(66)	ng/g	0.0124	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
23'45-TetraCB-(67)	ng/g	0.00083 U	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'-TetraCB-(68)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
23'55'-TetraCB-(72)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412

EDL = Estimated Detection Limit

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'5'6-TetraCB-(73)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
33'44'-TetraCB-(77)	ng/g	0.0016 J	0.0013	0.0099	N/A	0.000100	0.000000160	N/A	4386412
33'45'-TetraCB-(78)	ng/g	0.00095 U	0.00095	0.0099	N/A	N/A	N/A	N/A	4386412
33'45'-TetraCB(79)	ng/g	0.00081 U	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
33'55'-TetraCB-(80)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
344'5-TetraCB-(81)	ng/g	0.0013 U	0.0013	0.0099	N/A	0.000300	0.000000390	N/A	4386412
22'33'4-PentaCB-(82)	ng/g	0.0019 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(83)+(99)	ng/g	0.0402	0.0011	0.020	N/A	N/A	N/A	N/A	4386412
22'33'6-PentaCB-(84)	ng/g	0.0043 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(85)+(116)+(117)	ng/g	0.00571 J	0.00083	0.030	N/A	N/A	N/A	N/A	4386412
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0142 J	0.00089	0.059	N/A	N/A	N/A	N/A	4386412
PentaCB-(88)+(91)	ng/g	0.0025 J	0.0010	0.020	N/A	N/A	N/A	N/A	4386412
22'346'-PentaCB-(89)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(90)+(101)+(113)	ng/g	0.0439	0.00088	0.030	N/A	N/A	N/A	N/A	4386412
22'355'-PentaCB-(92)	ng/g	0.0092 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0030 J	0.0011	0.040	N/A	N/A	N/A	N/A	4386412
22'356'-PentaCB-(94)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'35'6-PentaCB-(95)	ng/g	0.0260	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
22'366'-PentaCB-(96)	ng/g	0.00074 U	0.00074	0.0099	N/A	N/A	N/A	N/A	4386412
22'45'6-PentaCB-(103)	ng/g	0.00107 J	0.00083	0.0099	N/A	N/A	N/A	N/A	4386412
22'466'-PentaCB-(104)	ng/g	0.00054 U	0.00054	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'-PentaCB-(105)	ng/g	0.0100	0.0012	0.0099	N/A	0.0000300	0.000000300	N/A	4386412
233'45'-PentaCB-(106)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5-PentaCB-(107)	ng/g	0.00307 J	0.00090	0.0099	N/A	N/A	N/A	N/A	4386412
PentaCB-(108)+(124)	ng/g	0.00119 J	0.00095	0.020	N/A	N/A	N/A	N/A	4386412
PentaCB-(110)+(115)	ng/g	0.0278	0.00089	0.020	N/A	N/A	N/A	N/A	4386412
233'55'-PentaCB-(111)	ng/g	0.00079 U	0.00079	0.0099	N/A	N/A	N/A	N/A	4386412
233'56-PentaCB-(112)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	4386412
2344'5-PentaCB-(114)	ng/g	0.0012 U	0.0012	0.0099	N/A	0.0000300	0.0000000360	N/A	4386412
23'44'5-PentaCB-(118)	ng/g	0.0304	0.0012	0.0099	N/A	0.0000300	0.000000912	N/A	4386412

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QC Batch = Quality Control Batch

N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'455'-PentaCB-(120)	ng/g	0.00070 U	0.00070	0.0099	N/A	N/A	N/A	N/A	4386412
23'45'6'-PentaCB-(121)	ng/g	0.00081 U	0.00081	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'-PentaCB-(122)	ng/g	0.00097 U	0.00097	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'5'-PentaCB-(123)	ng/g	0.0013 U	0.0013	0.0099	N/A	0.0000300	0.0000000390	N/A	4386412
33'44'5'-PentaCB-(126)	ng/g	0.0012 U	0.0012	0.0099	N/A	0.100	0.000120	N/A	4386412
33'455'-PentaCB-(127)	ng/g	0.00088 U	0.00088	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(128)+(166)	ng/g	0.0069 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(129)+(138)+(163)	ng/g	0.0586	0.0013	0.030	N/A	N/A	N/A	N/A	4386412
22'33'45'-HexaCB-(130)	ng/g	0.0031 J	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(131)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'-HexaCB-(132)	ng/g	0.0053 J	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'-HexaCB-(133)	ng/g	0.0013 U (1)	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(134)+(143)	ng/g	0.0023 J	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
HexaCB-(135)+(151)	ng/g	0.0172 J	0.0015	0.020	N/A	N/A	N/A	N/A	4386412
22'33'66'-HexaCB-(136)	ng/g	0.0040 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'5'-HexaCB-(137)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(139)+(140)	ng/g	0.0013 U	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'3455'-HexaCB-(141)	ng/g	0.0017 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'3456'-HexaCB-(142)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'345'6'-HexaCB-(144)	ng/g	0.0016 J	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'3466'-HexaCB-(145)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'-HexaCB-(146)	ng/g	0.0132	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(147)+(149)	ng/g	0.0373	0.0013	0.020	N/A	N/A	N/A	N/A	4386412
22'34'56'-HexaCB-(148)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'66'-HexaCB-(150)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'3566'-HexaCB-(152)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
HexaCB-(153)+(168)	ng/g	0.0739	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'56'-HexaCB-(154)	ng/g	0.0018 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
22'44'66'-HexaCB-(155)	ng/g	0.00069 U	0.00069	0.0099	N/A	N/A	N/A	N/A	4386412

EDL = Estimated Detection Limit
RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
HexaCB-(156)+(157)	ng/g	0.00290 J	0.00082	0.020	N/A	0.0000300	0.0000000870	N/A	4386412
233'44'6'-HexaCB-(158)	ng/g	0.00330 J	0.00091	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'5'-HexaCB-(159)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'6'-HexaCB-(160)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'45'6'-HexaCB-(161)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'55'-HexaCB-(162)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	4386412
233'4'5'6'-HexaCB-(164)	ng/g	0.0014 J	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
233'55'6'-HexaCB-(165)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
23'44'55'-HexaCB-(167)	ng/g	0.00178 J	0.00088	0.0099	N/A	0.0000300	0.0000000534	N/A	4386412
33'44'55'-HexaCB-(169)	ng/g	0.00087 U	0.00087	0.0099	N/A	0.0300	0.0000261	N/A	4386412
22'33'44'5'-HeptaCB-(170)	ng/g	0.0025 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(171)+(173)	ng/g	0.0021 J	0.0018	0.020	N/A	N/A	N/A	N/A	4386412
22'33'45'5'-HeptaCB-(172)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(174)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(175)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'46'6'-HeptaCB-(176)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'6'-HeptaCB-(177)	ng/g	0.0047 J	0.0018	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'6'-HeptaCB-(178)	ng/g	0.0032 J	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'56'6'-HeptaCB-(179)	ng/g	0.0034 J	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
HeptaCB-(180)+(193)	ng/g	0.0091 J	0.0012	0.020	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(181)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'56'-HeptaCB-(182)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'5'6'-HeptaCB-(183)	ng/g	0.0052 J	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'66'-HeptaCB-(184)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	4386412
22'3455'6'-HeptaCB-(185)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	4386412
22'34566'-HeptaCB-(186)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'55'6'-HeptaCB-(187)	ng/g	0.0187	0.0020	0.0099	N/A	N/A	N/A	N/A	4386412
22'34'566'-HeptaCB-(188)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'-HeptaCB-(189)	ng/g	0.00052 U	0.00052	0.0099	N/A	0.0000300	0.0000000156	N/A	4386412
233'44'56'-HeptaCB-(190)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

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QC Batch = Quality Control Batch

N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'44'5'6'-HeptaCB-(191)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	4386412
233'455'6'-HeptaCB-(192)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'-OctaCB-(194)	ng/g	0.00123 J	0.00093	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(195)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'56'-OctaCB-(196)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'66'-OctaCB-(197)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
OctaCB-(198)+(199)	ng/g	0.0017 U	0.0017	0.020	N/A	N/A	N/A	N/A	4386412
22'33'4566'-OctaCB-(200)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'45'66'-OctaCB-(201)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'55'66'-OctaCB-(202)	ng/g	0.0018 J	0.0012	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'55'6'-OctaCB-(203)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	4386412
22'344'566'-OctaCB-(204)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	4386412
233'44'55'6'-OctaCB-(205)	ng/g	0.00096 U	0.00096	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'55'6'-NonaCB-(206)	ng/g	0.00084 U	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'44'566'-NonaCB-(207)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	4386412
22'33'455'66'-NonaCB-(208)	ng/g	0.00084 U	0.00084	0.0099	N/A	N/A	N/A	N/A	4386412
DecaCB-(209)	ng/g	0.00091 U	0.00091	0.0099	N/A	N/A	N/A	N/A	4386412
Total PCB	ng/g	1.08	N/A	N/A	N/A	N/A	N/A	N/A	4386412
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000148	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	134 (1)	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'55'6'-NonaCB-(206)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'44'5'-HeptaCB-(170)	%	66	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'455'66'-NonaCB-(208)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'66'-OctaCB-(202)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'33'55'6'-HeptaCB-(178)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'344'55'-HeptaCB-(180)	%	64	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'34'566'-HeptaCB-(188)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

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N/A = Not Applicable

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		BRP572							
Sampling Date		2015/10/30 15:00							
COC Number		NA				TOXIC EQUIVALENCY		# of	
	UNITS	PG-T0-MUS-COC-151030	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'44'66'-HexaCB-(155)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'466'-PentaCB-(104)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'66'-TetraCB-(54)	%	66	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'6-TriCB-(19)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-22'-DiCB-(4)	%	52	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'6-OctaCB-(205)	%	83	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'55'-HeptaCB-(189)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'44'-PentaCB-(105)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-233'55'-PentaCB-(111)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'55'-HexaCB-(167)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2344'5-PentaCB-(114)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-23'44'5-PentaCB-(118)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2'344'5-PentaCB-(123)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-2-MonoCB-(1)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'55'-HexaCB-(169)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'5-PentaCB-(126)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-33'44'-TetraCB-(77)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'5-TetraCB-(81)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-344'-TriCB-(37)	%	109	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-44'-DiCB-(15)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-4-MonoCB-(3)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-DecaCB-(209)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	4386412
C13-HexaCB-(156)+(157)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	4386412

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RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
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QC Batch = Quality Control Batch
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TEST SUMMARY

Maxxam ID: BRP572
Sample ID: PG-T0-MUS-COC-151030
Matrix: TISSUE

Collected: 2015/10/30
Shipped:
Received: 2016/01/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	4386412	2016/02/11	2016/02/19	Cathy Xu

GENERAL COMMENTS

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4386412	CXU	QC Standard	C13-2,44'-TriCB-(28)	2016/02/18		121	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2016/02/18		94	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2016/02/18		77	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		73	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		65	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2016/02/18		97	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		76	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		73	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		65	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		74	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		58	%	30 - 140
			C13-22'6-TriCB-(19)	2016/02/18		60	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		53	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2016/02/18		87	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		90	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		98	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		104	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		93	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2016/02/18		97	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2016/02/18		96	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2016/02/18		95	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		74	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		63	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2016/02/18		99	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		98	%	30 - 140
			C13-344'5'-TetraCB-(81)	2016/02/18		102	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		106	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		77	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		73	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		81	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
			2-MonoCB-(1)	2016/02/18		0.043	%	N/A
			4-MonoCB-(3)	2016/02/18		0.0049	%	N/A
			22'-DiCB-(4)	2016/02/18		0.30	%	N/A
			4,4'-DiCB-(15)	2016/02/18		0.23	%	N/A
			22'6-TriCB-(19)	2016/02/18		0.19	%	N/A
			235-TriCB-(23)	2016/02/18		0	%	N/A
			23'5'-TriCB-(34)	2016/02/18		0.014	%	N/A
			344'-TriCB-(37)	2016/02/18		0.31	%	N/A
			22'66'-TetraCB-(54)	2016/02/18		0.015	%	N/A
			33'44'-TetraCB-(77)	2016/02/18		0.27	%	N/A
			344'5'-TetraCB-(81)	2016/02/18		0.0084	%	N/A
			22'466'-PentaCB-(104)	2016/02/18		0	%	N/A
			233'44'-PentaCB-(105)	2016/02/18		2.1	%	N/A
			2344'5'-PentaCB-(114)	2016/02/18		0.099	%	N/A
			23'44'5'-PentaCB-(118)	2016/02/18		5.7	%	N/A
			23'44'5'-PentaCB-(123)	2016/02/18		0.057	%	N/A
			33'44'5'-PentaCB-(126)	2016/02/18		0.012	%	N/A
			22'44'66'-HexaCB-(155)	2016/02/18		0	%	N/A
			HexaCB-(156)+(157)	2016/02/18		0.52	%	N/A
			23'44'55'-HexaCB-(167)	2016/02/18		0.30	%	N/A
			33'44'55'-HexaCB-(169)	2016/02/18		0	%	N/A
			22'33'44'5'-HeptaCB-(170)	2016/02/18		0.11	%	N/A

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			HeptaCB-(180)+(193)	2016/02/18		0.65	%	N/A
			22'344'56'-HeptaCB-(182)	2016/02/18		0	%	N/A
			22'34'55'6'-HeptaCB-(187)	2016/02/18		1.9	%	N/A
			22'34'566'-HeptaCB-(188)	2016/02/18		0.0036	%	N/A
			233'44'55'-HeptaCB-(189)	2016/02/18		0.023	%	N/A
			22'33'55'66'-OctaCB-(202)	2016/02/18		0.20	%	N/A
			233'44'55'6'-OctaCB-(205)	2016/02/18		0.0041	%	N/A
			22'33'44'55'6'-NonaCB-(206)	2016/02/18		0.0073	%	N/A
			22'33'455'66'-NonaCB-(208)	2016/02/18		0	%	N/A
			DecaCB-(209)	2016/02/18		0.011	%	N/A
4386412	CXU	Spiked Blank	C13-2,44'-TriCB-(28)	2016/02/18		113	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2016/02/18		98	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2016/02/18		89	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		87	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		77	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2016/02/18		99	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		86	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		76	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		69	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		76	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		63	%	30 - 140
			C13-22'6-TriCB-(19)	2016/02/18		57	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		52	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2016/02/18		89	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		100	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		91	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		101	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		88	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2016/02/18		90	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2016/02/18		90	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2016/02/18		90	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		70	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		59	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2016/02/18		91	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		91	%	30 - 140
			C13-344'5'-TetraCB-(81)	2016/02/18		93	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		96	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		80	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		66	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		102	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		89	%	30 - 140
			2-MonoCB-(1)	2016/02/18		102	%	50 - 150
			4-MonoCB-(3)	2016/02/18		101	%	50 - 150
			22'-DiCB-(4)	2016/02/18		112	%	50 - 150
			4,4'-DiCB-(15)	2016/02/18		107	%	50 - 150
			22'6-TriCB-(19)	2016/02/18		105	%	50 - 150
			235-TriCB-(23)	2016/02/18		128	%	50 - 150
			23'5'-TriCB-(34)	2016/02/18		93	%	50 - 150
			344'-TriCB-(37)	2016/02/18		99	%	50 - 150
			22'66'-TetraCB-(54)	2016/02/18		100	%	50 - 150
			33'44'-TetraCB-(77)	2016/02/18		99	%	50 - 150
			344'5-TetraCB-(81)	2016/02/18		101	%	50 - 150
			22'466'-PentaCB-(104)	2016/02/18		103	%	50 - 150

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			233'44'-PentaCB-(105)	2016/02/18		101	%	50 - 150
			2344'5'-PentaCB-(114)	2016/02/18		98	%	50 - 150
			23'44'5'-PentaCB-(118)	2016/02/18		107	%	50 - 150
			23'44'5'-PentaCB-(123)	2016/02/18		100	%	50 - 150
			33'44'5'-PentaCB-(126)	2016/02/18		99	%	50 - 150
			22'44'66'-HexaCB-(155)	2016/02/18		104	%	50 - 150
			HexaCB-(156)+(157)	2016/02/18		101	%	50 - 150
			23'44'55'-HexaCB-(167)	2016/02/18		99	%	50 - 150
			33'44'55'-HexaCB-(169)	2016/02/18		103	%	50 - 150
			22'33'44'5'-HeptaCB-(170)	2016/02/18		98	%	50 - 150
			HeptaCB-(180)+(193)	2016/02/18		86	%	50 - 150
			22'344'56'-HeptaCB-(182)	2016/02/18		88	%	50 - 150
			22'34'55'6'-HeptaCB-(187)	2016/02/18		95	%	50 - 150
			22'34'566'-HeptaCB-(188)	2016/02/18		99	%	50 - 150
			233'44'55'-HeptaCB-(189)	2016/02/18		94	%	50 - 150
			22'33'55'66'-OctaCB-(202)	2016/02/18		101	%	50 - 150
			233'44'55'6'-OctaCB-(205)	2016/02/18		97	%	50 - 150
			22'33'44'55'6'-NonaCB-(206)	2016/02/18		96	%	50 - 150
			22'33'455'66'-NonaCB-(208)	2016/02/18		102	%	50 - 150
			DecaCB-(209)	2016/02/18		154 (1)	%	50 - 150
4386412	CXU	Spiked Blank DUP	C13-2,44'-TriCB-(28)	2016/02/18		110	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2016/02/18		86	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2016/02/18		75	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		78	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		65	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2016/02/18		95	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		74	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		75	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		69	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		75	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		59	%	30 - 140
			C13-22'6'-TriCB-(19)	2016/02/18		55	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		51	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2016/02/18		88	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		90	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		94	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		98	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		88	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2016/02/18		92	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2016/02/18		93	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2016/02/18		92	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		71	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		66	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2016/02/18		96	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		96	%	30 - 140
			C13-344'5'-TetraCB-(81)	2016/02/18		96	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		98	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		79	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		67	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		89	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
			2-MonoCB-(1)	2016/02/18		103	%	50 - 150
			4-MonoCB-(3)	2016/02/18		105	%	50 - 150

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'-DiCB-(4)	2016/02/18		111	%	50 - 150
			4,4'-DiCB-(15)	2016/02/18		107	%	50 - 150
			22'6'-TriCB-(19)	2016/02/18		109	%	50 - 150
			235-TriCB-(23)	2016/02/18		119	%	50 - 150
			23'5'-TriCB-(34)	2016/02/18		103	%	50 - 150
			344'-TriCB-(37)	2016/02/18		103	%	50 - 150
			22'66'-TetraCB-(54)	2016/02/18		105	%	50 - 150
			33'44'-TetraCB-(77)	2016/02/18		98	%	50 - 150
			344'5'-TetraCB-(81)	2016/02/18		102	%	50 - 150
			22'466'-PentaCB-(104)	2016/02/18		101	%	50 - 150
			233'44'-PentaCB-(105)	2016/02/18		101	%	50 - 150
			2344'5'-PentaCB-(114)	2016/02/18		100	%	50 - 150
			23'44'5'-PentaCB-(118)	2016/02/18		107	%	50 - 150
			23'44'5'-PentaCB-(123)	2016/02/18		100	%	50 - 150
			33'44'5'-PentaCB-(126)	2016/02/18		98	%	50 - 150
			22'44'66'-HexaCB-(155)	2016/02/18		105	%	50 - 150
			HexaCB-(156)+(157)	2016/02/18		101	%	50 - 150
			23'44'55'-HexaCB-(167)	2016/02/18		101	%	50 - 150
			33'44'55'-HexaCB-(169)	2016/02/18		100	%	50 - 150
			22'33'44'5'-HeptaCB-(170)	2016/02/18		104	%	50 - 150
			HeptaCB-(180)+(193)	2016/02/18		85	%	50 - 150
			22'344'56'-HeptaCB-(182)	2016/02/18		86	%	50 - 150
			22'34'55'6'-HeptaCB-(187)	2016/02/18		93	%	50 - 150
			22'34'566'-HeptaCB-(188)	2016/02/18		103	%	50 - 150
			233'44'55'-HeptaCB-(189)	2016/02/18		96	%	50 - 150
			22'33'55'66'-OctaCB-(202)	2016/02/18		102	%	50 - 150
			233'44'55'6'-OctaCB-(205)	2016/02/18		96	%	50 - 150
			22'33'44'55'6'-NonaCB-(206)	2016/02/18		100	%	50 - 150
			22'33'455'66'-NonaCB-(208)	2016/02/18		98	%	50 - 150
			DecaCB-(209)	2016/02/18		153 (1)	%	50 - 150
4386412	CXU	RPD	2-MonoCB-(1)	2016/02/18	0.98		%	30
			4-MonoCB-(3)	2016/02/18	3.9		%	30
			22'-DiCB-(4)	2016/02/18	0.90		%	30
			4,4'-DiCB-(15)	2016/02/18	0		%	30
			22'6'-TriCB-(19)	2016/02/18	3.7		%	30
			235-TriCB-(23)	2016/02/18	7.3		%	30
			23'5'-TriCB-(34)	2016/02/18	10		%	30
			344'-TriCB-(37)	2016/02/18	4.0		%	30
			22'66'-TetraCB-(54)	2016/02/18	4.9		%	30
			33'44'-TetraCB-(77)	2016/02/18	1.0		%	30
			344'5'-TetraCB-(81)	2016/02/18	0.99		%	30
			22'466'-PentaCB-(104)	2016/02/18	2.0		%	30
			233'44'-PentaCB-(105)	2016/02/18	0		%	30
			2344'5'-PentaCB-(114)	2016/02/18	2.0		%	30
			23'44'5'-PentaCB-(118)	2016/02/18	0		%	30
			23'44'5'-PentaCB-(123)	2016/02/18	0		%	30
			33'44'5'-PentaCB-(126)	2016/02/18	1.0		%	30
			22'44'66'-HexaCB-(155)	2016/02/18	0.96		%	30
			HexaCB-(156)+(157)	2016/02/18	0		%	30
			23'44'55'-HexaCB-(167)	2016/02/18	2.0		%	30
			33'44'55'-HexaCB-(169)	2016/02/18	3.0		%	30
			22'33'44'5'-HeptaCB-(170)	2016/02/18	5.9		%	30
			HeptaCB-(180)+(193)	2016/02/18	1.2		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'344'56'-HeptaCB-(182)	2016/02/18	2.3		%	30
			22'34'55'6'-HeptaCB-(187)	2016/02/18	2.1		%	30
			22'34'566'-HeptaCB-(188)	2016/02/18	4.0		%	30
			233'44'55'-HeptaCB-(189)	2016/02/18	2.1		%	30
			22'33'55'66'-OctaCB-(202)	2016/02/18	0.99		%	30
			233'44'55'6'-OctaCB-(205)	2016/02/18	1.0		%	30
			22'33'44'55'6'-NonaCB-(206)	2016/02/18	4.1		%	30
			22'33'455'66'-NonaCB-(208)	2016/02/18	4.0		%	30
			DecaCB-(209)	2016/02/18	0.65		%	30
4386412	CXU	Method Blank	C13-2,44'-TriCB-(28)	2016/02/18		110	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2016/02/18		85	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2016/02/18		76	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2016/02/18		76	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2016/02/18		66	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2016/02/18		91	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2016/02/18		75	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2016/02/18		75	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2016/02/18		67	%	30 - 140
			C13-22'466'-PentaCB-(104)	2016/02/18		74	%	30 - 140
			C13-22'66'-TetraCB-(54)	2016/02/18		55	%	30 - 140
			C13-22'6-TriCB-(19)	2016/02/18		52	%	30 - 140
			C13-22'-DiCB-(4)	2016/02/18		45	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2016/02/18		88	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2016/02/18		93	%	30 - 140
			C13-233'44'-PentaCB-(105)	2016/02/18		97	%	30 - 140
			C13-233'55'-PentaCB-(111)	2016/02/18		97	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2016/02/18		89	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2016/02/18		95	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2016/02/18		96	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2016/02/18		96	%	30 - 140
			C13-2-MonoCB-(1)	2016/02/18		62	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2016/02/18		68	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2016/02/18		96	%	30 - 140
			C13-33'44'-TetraCB-(77)	2016/02/18		97	%	30 - 140
			C13-344'5'-TetraCB-(81)	2016/02/18		97	%	30 - 140
			C13-344'-TriCB-(37)	2016/02/18		99	%	30 - 140
			C13-44'-DiCB-(15)	2016/02/18		77	%	30 - 140
			C13-4-MonoCB-(3)	2016/02/18		57	%	15 - 140
			C13-DecaCB-(209)	2016/02/18		89	%	30 - 140
			C13-HexaCB-(156)+(157)	2016/02/18		93	%	30 - 140
			2-MonoCB-(1)	2016/02/18	0.00061 U, EDL=0.00061		ng/g	
			3-MonoCB-(2)	2016/02/18	0.00055 U, EDL=0.00055		ng/g	
			4-MonoCB-(3)	2016/02/18	0.00061 U, EDL=0.00061		ng/g	
			22'-DiCB-(4)	2016/02/18	0.0021 U, EDL=0.0021		ng/g	
			2,3-DiCB-(5)	2016/02/18	0.0027 U, EDL=0.0027		ng/g	
			2,3'-DiCB-(6)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			2,4-DiCB-(7)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	
			2,4'-DiCB-(8)	2016/02/18	0.0023 U, EDL=0.0023 (2)		ng/g	
			2,5-DiCB-(9)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			2,6-DiCB-(10)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			3,3'-DiCB-(11)	2016/02/18	0.0092 J, EDL=0.0021		ng/g	
			DiCB-(12)+(13)	2016/02/18	0.0022 U, EDL=0.0022		ng/g	
			3,5-DiCB-(14)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			4,4'-DiCB-(15)	2016/02/18	0.0030 U, EDL=0.0030		ng/g	
			22'3-TriCB-(16)	2016/02/18	0.0039 U, EDL=0.0039		ng/g	
			22'4-TriCB-(17)	2016/02/18	0.0029 U, EDL=0.0029		ng/g	
			TriCB-(18)+(30)	2016/02/18	0.0024 U, EDL=0.0024		ng/g	
			22'6-TriCB-(19)	2016/02/18	0.0022 U, EDL=0.0022		ng/g	
			TriCB-(20) + (28)	2016/02/18	0.00436 J, EDL=0.00052		ng/g	
			TriCB-(21)+(33)	2016/02/18	0.00231 J, EDL=0.00050		ng/g	
			234'-TriCB-(22)	2016/02/18	0.00161 J, EDL=0.00055		ng/g	
			235-TriCB-(23)	2016/02/18	0.00060 U, EDL=0.00060		ng/g	
			236-TriCB-(24)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	
			23'4-TriCB-(25)	2016/02/18	0.00047 U, EDL=0.00047		ng/g	
			TriCB-(26)+(29)	2016/02/18	0.00069 J, EDL=0.00051		ng/g	
			23'6-TriCB-(27)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			24'5-TriCB-(31)	2016/02/18	0.00340 J, EDL=0.00047		ng/g	
			24'6-TriCB-(32)	2016/02/18	0.0018 U, EDL=0.0018		ng/g	
			23'5'-TriCB-(34)	2016/02/18	0.00050 U, EDL=0.00050		ng/g	
			33'4-TriCB-(35)	2016/02/18	0.00039 U, EDL=0.00039		ng/g	
			33'5-TriCB-(36)	2016/02/18	0.00040 U, EDL=0.00040		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			344'-TriCB-(37)	2016/02/18	0.00143 J, EDL=0.00069		ng/g	
			345-TriCB-(38)	2016/02/18	0.00043 U, EDL=0.00043		ng/g	
			34'5-TriCB-(39)	2016/02/18	0.00047 U, EDL=0.00047		ng/g	
			TetraCB-(40)+(41)+(71)	2016/02/18	0.0018 U, EDL=0.0018		ng/g	
			22'34'-TetraCB-(42)	2016/02/18	0.0019 U, EDL=0.0019		ng/g	
			22'35-TetraCB-(43)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			TetraCB-(44)+(47)+(65)	2016/02/18	0.0039 U, EDL=0.0039 (2)		ng/g	
			TetraCB-(45)+(51)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			22'36'-TetraCB-(46)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	
			22'45-TetraCB-(48)	2016/02/18	0.0019 U, EDL=0.0019		ng/g	
			TetraCB-(49)+TetraCB-(69)	2016/02/18	0.0016 J, EDL=0.0015		ng/g	
			TetraCB-(50)+(53)	2016/02/18	0.0020 U, EDL=0.0020		ng/g	
			22'55'-TetraCB-(52)	2016/02/18	0.0020 J, EDL=0.0016		ng/g	
			22'66'-TetraCB-(54)	2016/02/18	0.00016 U, EDL=0.00016		ng/g	
			233'4-TetraCB-(55)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			233'4'-Tetra CB(56)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			233'5-TetraCB-(57)	2016/02/18	0.00090 U, EDL=0.00090		ng/g	
			233'5'-TetraCB-(58)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			TetraCB-(59)+(62)+(75)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			2344'-TetraCB -(60)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			TetraCB-(61)+(70)+(74)+(76)	2016/02/18	0.00519 J, EDL=0.00099		ng/g	
			234'5-TetraCB-(63)	2016/02/18	0.00088 U, EDL=0.00088		ng/g	
			234'6-TetraCB-(64)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			23'44'-TetraCB-(66)	2016/02/18	0.00281 J, EDL=0.00089		ng/g	
			23'45-TetraCB-(67)	2016/02/18	0.00082 U, EDL=0.00082		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			23'45'-TetraCB-(68)	2016/02/18	0.00090 U, EDL=0.00090		ng/g	
			23'55'-TetraCB-(72)	2016/02/18	0.00084 U, EDL=0.00084		ng/g	
			23'5'6-TetraCB-(73)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			33'44'-TetraCB-(77)	2016/02/18	0.0010 U, EDL=0.0010		ng/g	
			33'45-TetraCB-(78)	2016/02/18	0.00085 U, EDL=0.00085		ng/g	
			33'45'-TetraCB(79)	2016/02/18	0.00075 U, EDL=0.00075		ng/g	
			33'55'-TetraCB-(80)	2016/02/18	0.00090 U, EDL=0.00090		ng/g	
			344'5-TetraCB-(81)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'4-PentaCB-(82)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			PentaCB-(83)+(99)	2016/02/18	0.0048 J, EDL=0.0010		ng/g	
			22'33'6-PentaCB-(84)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			PentaCB-(85)+(116)+(117)	2016/02/18	0.00113 J, EDL=0.00079		ng/g	
			PentaCB-(86)(87)(97)(109)(119)(125)	2016/02/18	0.00196 J, EDL=0.00087		ng/g	
			PentaCB-(88)+(91)	2016/02/18	0.0010 U, EDL=0.0010		ng/g	
			22'346'-PentaCB-(89)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			PentaCB-(90)+(101)+(113)	2016/02/18	0.00586 J, EDL=0.00089		ng/g	
			22'355'-PentaCB-(92)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			PentaCB-(93)+(98)+(100)+(102)	2016/02/18	0.0010 U, EDL=0.0010		ng/g	
			22'356'-PentaCB-(94)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'35'6-PentaCB-(95)	2016/02/18	0.00092 U, EDL=0.00092		ng/g	
			22'366'-PentaCB-(96)	2016/02/18	0.00018 U, EDL=0.00018		ng/g	
			22'45'6-PentaCB-(103)	2016/02/18	0.00085 U, EDL=0.00085		ng/g	
			22'466'-PentaCB-(104)	2016/02/18	0.00015 U, EDL=0.00015		ng/g	
			233'44'-PentaCB-(105)	2016/02/18	0.00227 J, EDL=0.00062		ng/g	
			233'45-PentaCB-(106)	2016/02/18	0.00050 U, EDL=0.00050		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			233'4'5'-PentaCB-(107)	2016/02/18	0.00098 J, EDL=0.00053		ng/g	
			PentaCB-(108)+(124)	2016/02/18	0.00054 U, EDL=0.00054		ng/g	
			PentaCB-(110)+(115)	2016/02/18	0.00336 J, EDL=0.00084		ng/g	
			233'55'-PentaCB-(111)	2016/02/18	0.00078 U, EDL=0.00078		ng/g	
			233'56'-PentaCB-(112)	2016/02/18	0.00077 U, EDL=0.00077		ng/g	
			2344'5'-PentaCB-(114)	2016/02/18	0.00060 U, EDL=0.00060		ng/g	
			23'44'5'-PentaCB-(118)	2016/02/18	0.00707 J, EDL=0.00062		ng/g	
			23'455'-PentaCB-(120)	2016/02/18	0.00066 U, EDL=0.00066		ng/g	
			23'45'6'-PentaCB-(121)	2016/02/18	0.00083 U, EDL=0.00083		ng/g	
			233'4'5'-PentaCB-(122)	2016/02/18	0.00056 U, EDL=0.00056		ng/g	
			23'44'5'-PentaCB-(123)	2016/02/18	0.00068 U, EDL=0.00068		ng/g	
			33'44'5'-PentaCB-(126)	2016/02/18	0.00062 U, EDL=0.00062		ng/g	
			33'455'-PentaCB-(127)	2016/02/18	0.00049 U, EDL=0.00049		ng/g	
			HexaCB-(128)+(166)	2016/02/18	0.00099 U, EDL=0.00099		ng/g	
			HexaCB-(129)+(138)+(163)	2016/02/18	0.0113 J, EDL=0.0011		ng/g	
			22'33'45'-HexaCB-(130)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'33'46'-HexaCB-(131)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'46'-HexaCB-(132)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'55'-HexaCB-(133)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			HexaCB-(134)+(143)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			HexaCB-(135)+(151)	2016/02/18	0.0027 U, EDL=0.0027		ng/g	
			22'33'66'-HexaCB-(136)	2016/02/18	0.0019 U, EDL=0.0019		ng/g	
			22'344'5'-HexaCB-(137)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			HexaCB-(139)+(140)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'3455'-HexaCB-(141)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'3456-HexaCB-(142)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'345'6-HexaCB-(144)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			22'3466'-HexaCB-(145)	2016/02/18	0.0021 U, EDL=0.0021		ng/g	
			22'34'55'-HexaCB-(146)	2016/02/18	0.0031 J, EDL=0.0011		ng/g	
			HexaCB-(147)+(149)	2016/02/18	0.0026 J, EDL=0.0012		ng/g	
			22'34'56'-HexaCB-(148)	2016/02/18	0.0026 U, EDL=0.0026		ng/g	
			22'34'66'-HexaCB-(150)	2016/02/18	0.0022 U, EDL=0.0022		ng/g	
			22'3566'-HexaCB-(152)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			HexaCB-(153)+(168)	2016/02/18	0.010 U, EDL=0.010 (2)		ng/g	
			22'44'56'-HexaCB-(154)	2016/02/18	0.0023 U, EDL=0.0023		ng/g	
			22'44'66'-HexaCB-(155)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			HexaCB-(156)+(157)	2016/02/18	0.00125 J, EDL=0.00048		ng/g	
			233'44'6-HexaCB-(158)	2016/02/18	0.00077 U, EDL=0.00077		ng/g	
			233'455'-HexaCB-(159)	2016/02/18	0.00041 U, EDL=0.00041		ng/g	
			233'456-HexaCB-(160)	2016/02/18	0.00094 U, EDL=0.00094		ng/g	
			233'45'6-HexaCB-(161)	2016/02/18	0.00079 U, EDL=0.00079		ng/g	
			233'4'55'-HexaCB-(162)	2016/02/18	0.00044 U, EDL=0.00044		ng/g	
			233'4'5'6-HexaCB-(164)	2016/02/18	0.00084 U, EDL=0.00084		ng/g	
			233'55'6-HexaCB-(165)	2016/02/18	0.0010 U, EDL=0.0010		ng/g	
			23'44'55'-HexaCB-(167)	2016/02/18	0.00056 U, EDL=0.00056 (2)		ng/g	
			33'44'55'-HexaCB-(169)	2016/02/18	0.00051 U, EDL=0.00051		ng/g	
			22'33'44'5-HeptaCB-(170)	2016/02/18	0.00096 U, EDL=0.00096		ng/g	
			HeptaCB-(171)+(173)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			22'33'455'-HeptaCB-(172)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			22'33'456'-HeptaCB-(174)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'33'45'6'-HeptaCB-(175)	2016/02/18	0.0015 U, EDL=0.0015		ng/g	
			22'33'46'6'-HeptaCB-(176)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'45'6'-HeptaCB-(177)	2016/02/18	0.0013 U, EDL=0.0013		ng/g	
			22'33'55'6'-HeptaCB-(178)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			22'33'56'6'-HeptaCB-(179)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			HeptaCB-(180)+(193)	2016/02/18	0.00365 J, EDL=0.00088		ng/g	
			22'344'56'-HeptaCB-(181)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'344'56'-HeptaCB-(182)	2016/02/18	0.0015 U, EDL=0.0015		ng/g	
			22'344'5'6'-HeptaCB-(183)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'344'66'-HeptaCB-(184)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'3455'6'-HeptaCB-(185)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'34566'-HeptaCB-(186)	2016/02/18	0.0012 U, EDL=0.0012		ng/g	
			22'34'55'6'-HeptaCB-(187)	2016/02/18	0.0041 J, EDL=0.0016		ng/g	
			22'34'566'-HeptaCB-(188)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			233'44'55'-HeptaCB-(189)	2016/02/18	0.00048 U, EDL=0.00048		ng/g	
			233'44'56'-HeptaCB-(190)	2016/02/18	0.00091 U, EDL=0.00091		ng/g	
			233'44'5'6'-HeptaCB-(191)	2016/02/18	0.00090 U, EDL=0.00090		ng/g	
			233'455'6'-HeptaCB-(192)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'44'55'-OctaCB-(194)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'56'-OctaCB-(195)	2016/02/18	0.0015 U, EDL=0.0015		ng/g	
			22'33'44'56'-OctaCB-(196)	2016/02/18	0.0024 U, EDL=0.0024		ng/g	
			22'33'44'66'OctaCB-(197)	2016/02/18	0.0019 U, EDL=0.0019		ng/g	
			OctaCB-(198)+(199)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			22'33'4566'-OctaCB-(200)	2016/02/18	0.0016 U, EDL=0.0016		ng/g	
			22'33'45'66'-OctaCB-(201)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'33'55'66'-OctaCB-(202)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			22'344'55'6-OctaCB-(203)	2016/02/18	0.0025 U, EDL=0.0025		ng/g	
			22'344'566'-OctaCB-(204)	2016/02/18	0.0017 U, EDL=0.0017		ng/g	
			233'44'55'6-OctaCB-(205)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'55'6-NonaCB-(206)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			22'33'44'566'-NonaCB-(207)	2016/02/18	0.0011 U, EDL=0.0011		ng/g	
			22'33'455'66'-NonaCB-(208)	2016/02/18	0.0014 U, EDL=0.0014		ng/g	
			DecaCB-(209)	2016/02/18	0.0581, EDL=0.00038		ng/g	
			Total PCB	2016/02/18	0.146		ng/g	
4386412	CXU	RPD - Sample/Sample Dup	2-MonoCB-(1)	2016/02/18	NC		%	30
			3-MonoCB-(2)	2016/02/18	NC		%	30
			4-MonoCB-(3)	2016/02/18	NC		%	30
			22'-DiCB-(4)	2016/02/18	NC		%	30
			2,3-DiCB-(5)	2016/02/18	NC		%	30
			2,3'-DiCB-(6)	2016/02/18	NC		%	30
			2,4-DiCB-(7)	2016/02/18	NC		%	30
			2,4'-DiCB-(8)	2016/02/18	NC		%	30
			2,5-DiCB-(9)	2016/02/18	NC		%	30
			2,6-DiCB-(10)	2016/02/18	NC		%	30
			3,3'-DiCB-(11)	2016/02/18	NC		%	30
			DiCB-(12)+(13)	2016/02/18	NC		%	30
			3,5-DiCB-(14)	2016/02/18	NC		%	30
			4,4'-DiCB-(15)	2016/02/18	NC		%	30
			22'3-TriCB-(16)	2016/02/18	NC		%	30
			22'4-TriCB-(17)	2016/02/18	NC		%	30
			TriCB-(18)+(30)	2016/02/18	NC		%	30
			22'6-TriCB-(19)	2016/02/18	NC		%	30
			TriCB-(20) + (28)	2016/02/18	3.7		%	30
			TriCB-(21)+(33)	2016/02/18	NC		%	30
			234'-TriCB-(22)	2016/02/18	1.5		%	30
			235-TriCB-(23)	2016/02/18	NC		%	30
			236-TriCB-(24)	2016/02/18	NC		%	30
			23'4-TriCB-(25)	2016/02/18	NC		%	30
			TriCB-(26)+(29)	2016/02/18	NC		%	30
			23'6-TriCB-(27)	2016/02/18	NC		%	30
			24'5-TriCB-(31)	2016/02/18	1.5		%	30
			24'6-TriCB-(32)	2016/02/18	NC		%	30
			23'5'-TriCB-(34)	2016/02/18	NC		%	30
			33'4-TriCB-(35)	2016/02/18	NC		%	30
			33'5-TriCB-(36)	2016/02/18	NC		%	30
			344'-TriCB-(37)	2016/02/18	NC		%	30
			345-TriCB-(38)	2016/02/18	NC		%	30
			34'5-TriCB-(39)	2016/02/18	NC		%	30
			TetraCB-(40)+(41)+(71)	2016/02/18	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'34'-TetraCB-(42)	2016/02/18	1.8		%	30
			22'35'-TetraCB-(43)	2016/02/18	NC		%	30
			TetraCB-(44)+(47)+(65)	2016/02/18	0.67		%	30
			TetraCB-(45)+(51)	2016/02/18	NC		%	30
			22'36'-TetraCB-(46)	2016/02/18	NC		%	30
			22'45'-TetraCB-(48)	2016/02/18	0.33		%	30
			TetraCB-(49)+TetraCB-(69)	2016/02/18	2.4		%	30
			TetraCB-(50)+(53)	2016/02/18	NC		%	30
			22'55'-TetraCB-(52)	2016/02/18	0.40		%	30
			22'66'-TetraCB-(54)	2016/02/18	NC		%	30
			233'4'-TetraCB-(55)	2016/02/18	NC		%	30
			233'4'-Tetra CB(56)	2016/02/18	NC		%	30
			233'5'-TetraCB-(57)	2016/02/18	NC		%	30
			233'5'-TetraCB-(58)	2016/02/18	NC		%	30
			TetraCB-(59)+(62)+(75)	2016/02/18	NC		%	30
			2344'-TetraCB -(60)	2016/02/18	NC		%	30
			TetraCB-(61)+(70)+(74)+(76)	2016/02/18	NC		%	30
			234'5'-TetraCB-(63)	2016/02/18	NC		%	30
			234'6'-TetraCB-(64)	2016/02/18	1.3		%	30
			23'44'-TetraCB-(66)	2016/02/18	NC		%	30
			23'45'-TetraCB-(67)	2016/02/18	NC		%	30
			23'45'-TetraCB-(68)	2016/02/18	NC		%	30
			23'55'-TetraCB-(72)	2016/02/18	NC		%	30
			23'5'6'-TetraCB-(73)	2016/02/18	NC		%	30
			33'44'-TetraCB-(77)	2016/02/18	NC		%	30
			33'45'-TetraCB-(78)	2016/02/18	NC		%	30
			33'45'-TetraCB(79)	2016/02/18	NC		%	30
			33'55'-TetraCB-(80)	2016/02/18	NC		%	30
			344'5'-TetraCB-(81)	2016/02/18	NC		%	30
			22'33'4'-PentaCB-(82)	2016/02/18	NC		%	30
			PentaCB-(83)+(99)	2016/02/18	NC		%	30
			22'33'6'-PentaCB-(84)	2016/02/18	NC		%	30
			PentaCB-(85)+(116)+(117)	2016/02/18	NC		%	30
			PentaCB-(86)(87)(97)(109)(119)(125)	2016/02/18	NC		%	30
			PentaCB-(88)+(91)	2016/02/18	NC		%	30
			22'346'-PentaCB-(89)	2016/02/18	NC		%	30
			PentaCB-(90)+(101)+(113)	2016/02/18	NC		%	30
			22'355'-PentaCB-(92)	2016/02/18	NC		%	30
			PentaCB-(93)+(98)+(100)+(102)	2016/02/18	NC		%	30
			22'356'-PentaCB-(94)	2016/02/18	NC		%	30
			22'35'6'-PentaCB-(95)	2016/02/18	1.6		%	30
			22'366'-PentaCB-(96)	2016/02/18	NC (2)		%	30
			22'45'6'-PentaCB-(103)	2016/02/18	NC		%	30
			22'466'-PentaCB-(104)	2016/02/18	NC		%	30
			233'44'-PentaCB-(105)	2016/02/18	NC		%	30
			233'45'-PentaCB-(106)	2016/02/18	NC		%	30
			233'4'5'-PentaCB-(107)	2016/02/18	NC		%	30
			PentaCB-(108)+(124)	2016/02/18	NC		%	30
			PentaCB-(110)+(115)	2016/02/18	NC		%	30
			233'55'-PentaCB-(111)	2016/02/18	NC		%	30
			233'56'-PentaCB-(112)	2016/02/18	NC		%	30
			2344'5'-PentaCB-(114)	2016/02/18	NC		%	30
			23'44'5'-PentaCB-(118)	2016/02/18	3.9		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			23'45'5'-PentaCB-(120)	2016/02/18	NC		%	30
			23'45'6'-PentaCB-(121)	2016/02/18	NC		%	30
			233'4'5'-PentaCB-(122)	2016/02/18	NC		%	30
			23'44'5'-PentaCB-(123)	2016/02/18	NC		%	30
			33'44'5'-PentaCB-(126)	2016/02/18	NC		%	30
			33'45'5'-PentaCB-(127)	2016/02/18	NC		%	30
			HexaCB-(128)+(166)	2016/02/18	NC		%	30
			HexaCB-(129)+(138)+(163)	2016/02/18	1.9		%	30
			22'33'45'-HexaCB-(130)	2016/02/18	NC		%	30
			22'33'46'-HexaCB-(131)	2016/02/18	NC		%	30
			22'33'46'-HexaCB-(132)	2016/02/18	NC		%	30
			22'33'55'-HexaCB-(133)	2016/02/18	NC		%	30
			HexaCB-(134)+(143)	2016/02/18	NC		%	30
			HexaCB-(135)+(151)	2016/02/18	NC		%	30
			22'33'66'-HexaCB-(136)	2016/02/18	NC		%	30
			22'344'5'-HexaCB-(137)	2016/02/18	NC		%	30
			HexaCB-(139)+(140)	2016/02/18	NC		%	30
			22'3455'-HexaCB-(141)	2016/02/18	NC		%	30
			22'3456'-HexaCB-(142)	2016/02/18	NC		%	30
			22'345'6'-HexaCB-(144)	2016/02/18	NC		%	30
			22'3466'-HexaCB-(145)	2016/02/18	NC		%	30
			22'34'55'-HexaCB-(146)	2016/02/18	1.5		%	30
			HexaCB-(147)+(149)	2016/02/18	0.77		%	30
			22'34'56'-HexaCB-(148)	2016/02/18	NC		%	30
			22'34'66'-HexaCB-(150)	2016/02/18	NC		%	30
			22'3566'-HexaCB-(152)	2016/02/18	NC		%	30
			HexaCB-(153)+(168)	2016/02/18	1.2		%	30
			22'44'56'-HexaCB-(154)	2016/02/18	NC		%	30
			22'44'66'-HexaCB-(155)	2016/02/18	NC		%	30
			HexaCB-(156)+(157)	2016/02/18	NC		%	30
			233'44'6'-HexaCB-(158)	2016/02/18	NC		%	30
			233'455'-HexaCB-(159)	2016/02/18	NC		%	30
			233'456'-HexaCB-(160)	2016/02/18	NC		%	30
			233'45'6'-HexaCB-(161)	2016/02/18	NC		%	30
			233'4'55'-HexaCB-(162)	2016/02/18	NC		%	30
			233'4'5'6'-HexaCB-(164)	2016/02/18	NC		%	30
			233'55'6'-HexaCB-(165)	2016/02/18	NC		%	30
			23'44'55'-HexaCB-(167)	2016/02/18	NC		%	30
			33'44'55'-HexaCB-(169)	2016/02/18	NC		%	30
			22'33'44'5'-HeptaCB-(170)	2016/02/18	NC		%	30
			HeptaCB-(171)+(173)	2016/02/18	NC		%	30
			22'33'455'-HeptaCB-(172)	2016/02/18	NC		%	30
			22'33'456'-HeptaCB-(174)	2016/02/18	NC		%	30
			22'33'45'6'-HeptaCB-(175)	2016/02/18	NC		%	30
			22'33'466'-HeptaCB-(176)	2016/02/18	NC		%	30
			22'33'45'6'-HeptaCB-(177)	2016/02/18	NC		%	30
			22'33'55'6'-HeptaCB-(178)	2016/02/18	NC		%	30
			22'33'566'-HeptaCB-(179)	2016/02/18	NC		%	30
			HeptaCB-(180)+(193)	2016/02/18	0.85		%	30
			22'344'56'-HeptaCB-(181)	2016/02/18	NC		%	30
			22'344'56'-HeptaCB-(182)	2016/02/18	NC		%	30
			22'344'5'6'-HeptaCB-(183)	2016/02/18	0.69		%	30
			22'344'66'-HeptaCB-(184)	2016/02/18	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'3455'6-HeptaCB-(185)	2016/02/18	NC		%	30
			22'34566'1-HeptaCB-(186)	2016/02/18	NC		%	30
			22'34'55'6-HeptaCB-(187)	2016/02/18	0.85		%	30
			22'34'566'1-HeptaCB-(188)	2016/02/18	NC		%	30
			233'44'55'1-HeptaCB-(189)	2016/02/18	NC		%	30
			233'44'56-HeptaCB-(190)	2016/02/18	NC		%	30
			233'44'5'6-HeptaCB-(191)	2016/02/18	NC		%	30
			233'455'6-HeptaCB-(192)	2016/02/18	NC		%	30
			22'33'44'55'1-OctaCB-(194)	2016/02/18	NC (2)		%	30
			22'33'44'56-OctaCB-(195)	2016/02/18	NC		%	30
			22'33'44'56'1-OctaCB-(196)	2016/02/18	NC		%	30
			22'33'44'66'1-OctaCB-(197)	2016/02/18	NC		%	30
			OctaCB-(198)+(199)	2016/02/18	NC		%	30
			22'33'4566'1-OctaCB-(200)	2016/02/18	NC		%	30
			22'33'45'66'1-OctaCB-(201)	2016/02/18	NC		%	30
			22'33'55'66'1-OctaCB-(202)	2016/02/18	NC		%	30
			22'344'55'6-OctaCB-(203)	2016/02/18	NC		%	30
			22'344'566'1-OctaCB-(204)	2016/02/18	NC		%	30
			233'44'55'6-OctaCB-(205)	2016/02/18	NC		%	30
			22'33'44'55'6-NonaCB-(206)	2016/02/18	NC		%	30
			22'33'44'566'1-NonaCB-(207)	2016/02/18	NC		%	30
			22'33'455'66'1-NonaCB-(208)	2016/02/18	NC		%	30
			DecaCB-(209)	2016/02/18	NC		%	30
			Total PCB	2016/02/18	1.4		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

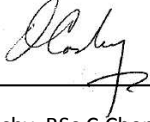
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Owen Cosby, BSc.C.Chem, Supervisor, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



3.0 Sample Custody

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 01/13/16



ARI Project: APR4

AIR

Laboratory: MAXXAM
Lab Contact: MELISSA DI GRAZIA
Lab Address: 299 CAYUGA RD.
CHEEKTOWAGA, NY 14225
Phone: 905-817-5784
Fax:

ARI Client: Anchor QEA, LLC
Project ID: Port Gamble Clean-up
ARI PM: Cheronne Oreiro
Phone: 206-695-6214
Fax: 206-695-6201
Email: subdata@arilabs.com

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around:
Email Results (Y/N):

Limits of Liability. Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
15-20439-APR4A	PG-T0-MUS-COC-151030	10/30/15 15:00	Tissue	1	PCB CONGENERS
Special Instructions: None					

24 lbs

Send ALL data to Anchor QEA.

20-Jan-16 14:25

Hongmei Zhao (Grace)



B612077

RGN FZ-46

Carrier	FED-EX	Airbill	0201 7754 2031 9029	Date	1/14/16
Relinquished by	[Signature]	Company	ARI	Date	1/14/2016
Received by	[Signature]	Company	[Signature]	Date	1/14/2016
				Time	1248
				Time	1425

Subcontractor Custody Form - APR4
Page 1 of 1

5015215.4



Method 1668, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Tissue and Air by HRGC/HRMS

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



4.0 Initial Calibration Data

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

M2160211A - PCB

File Name	File Text	Sample ID	Job	Wt/Vol
M2160211AS001	CS1_PCB 150417CXU	---	---	1.000000
M2160211AS002	CS1_PCB 150417CXU	---	---	1.000000
M2160211AS003	CS2_PCB 150417CXU	---	---	1.000000
M2160211AS004	CS3_PCB 150417CXU	---	---	1.000000
M2160211AS005	CS4_PCB 150417CXU	---	---	1.000000
M2160211AS006	CS5_PCB 150417CXU	---	---	1.000000
M2160211AS007	SOLVENT	---	---	1.000000
M2160211AS008	CIL CS3 PCB PR-22535L	---	---	1.000000
M2160211AS009	209MIX_PCB 150822CXU	---	---	1.000000
M2160211AS010	SOLVENT	---	---	1.000000
M2160211AS011	BUH942-01R	MAXXAM XAD GLASS PROOF	---	1.000000
M2160211AS012	BUH943-01R	MAXXAM XAD RESIN PROOF	---	1.000000
M2160211AS013	CS3_PCB 150417CXU	---	---	1.000000

EPTS Calibration

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EPA 1668 Initial Calibration

INSTRUMENT: Ultima 2

CALIBRATION DATE: 2016/02/11

M2160211AS002 M2160211AS003 M2160211AS004 M2160211AS005 M2160211AS006

	CS1	CS2	CS3	CS4	CS5	Mean RRF	RRF SD	%RSD
Natives								
	Relative Response Factors							
PCB 1	1.018	1.032	1.117	1.113	1.129	1.081845	0.053	4.9%
PCB 3	1.004	1.040	1.131	1.103	1.115	1.078646	0.054	5.0%
PCB 4	0.882	0.885	0.996	1.021	0.985	0.953944	0.066	6.9%
PCB 15	0.827	0.825	0.896	0.889	0.915	0.870529	0.042	4.8%
PCB 19	0.793	0.823	0.942	0.984	0.951	0.898659	0.085	9.5%
PCB 37	0.874	0.856	0.936	0.939	0.923	0.905510	0.038	4.2%
PCB 54	0.820	0.863	0.956	0.970	0.944	0.910564	0.066	7.2%
PCB 81	0.999	0.965	1.058	1.071	1.042	1.026963	0.044	4.3%
PCB 77	1.119	1.003	1.094	1.100	1.071	1.077246	0.045	4.2%
PCB 104	1.029	1.018	1.145	1.164	1.115	1.094350	0.067	6.1%
PCB 123	0.876	0.831	0.911	0.928	0.927	0.894465	0.041	4.6%
PCB 118	0.930	0.936	1.007	1.015	1.019	0.981486	0.044	4.5%
PCB 114	0.996	0.954	1.025	1.042	1.034	1.010266	0.036	3.6%
PCB 105	0.946	0.915	0.995	1.011	1.014	0.976519	0.044	4.5%
PCB 126	0.975	0.931	0.979	0.992	1.005	0.976612	0.028	2.9%
PCB 155	0.950	0.902	1.026	1.067	1.038	0.996585	0.068	6.8%
PCB 167	0.928	0.886	0.963	0.972	0.981	0.945863	0.039	4.2%
PCB 156/157	0.999	0.954	1.042	1.053	1.037	1.017075	0.041	4.0%
PCB 169	0.959	0.906	0.952	0.980	0.975	0.954435	0.029	3.1%
PCB 188	0.958	0.925	1.034	1.071	1.072	1.011922	0.067	6.6%
PCB 180	1.101	1.036	1.159	1.194	1.205	1.138864	0.070	6.2%
PCB 170	1.291	1.176	1.262	1.306	1.320	1.270956	0.057	4.5%
PCB 189	0.982	0.886	0.937	0.963	0.951	0.943745	0.036	3.9%
PCB 202	0.913	0.895	1.011	1.059	1.060	0.987571	0.079	8.0%
PCB 205	1.177	1.015	1.063	1.097	1.101	1.090566	0.059	5.4%
PCB 208	1.025	0.925	1.018	1.077	1.072	1.023460	0.061	6.0%
PCB 206	1.075	0.940	0.995	1.053	1.070	1.026603	0.058	5.7%
PCB 209	1.136	0.959	0.996	1.053	1.056	1.039866	0.067	6.4%
Internal Standard								
PCB 1L	0.840	0.846	0.813	0.770	0.849	0.823788	0.033	4.0%
PCB 3L	0.840	0.849	0.808	0.844	0.920	0.852361	0.041	4.8%
PCB 4L	0.558	0.557	0.534	0.512	0.551	0.542629	0.019	3.6%
PCB 15L	1.029	1.051	1.090	1.012	1.190	1.074338	0.071	6.6%
PCB 19L	0.591	0.602	0.578	0.554	0.566	0.578235	0.019	3.3%
PCB 37L	1.924	1.939	1.944	2.057	2.068	1.986544	0.070	3.5%
PCB 54L	1.356	1.322	1.314	1.174	1.320	1.297306	0.071	5.5%
PCB 81L	1.665	1.666	1.721	1.796	1.842	1.737865	0.079	4.5%
PCB 77L	1.587	1.612	1.638	1.746	1.803	1.677054	0.093	5.5%
PCB 104L	1.163	1.156	1.110	1.124	1.225	1.155653	0.045	3.9%
PCB 123L	1.887	1.930	1.905	2.000	1.957	1.935836	0.045	2.3%
PCB 118L	1.849	1.862	1.837	1.972	2.008	1.905777	0.078	4.1%
PCB 114L	1.678	1.727	1.716	1.835	1.908	1.772818	0.095	5.4%
PCB 105L	1.734	1.775	1.745	1.893	1.964	1.822389	0.101	5.6%
PCB 126L	1.635	1.666	1.649	1.792	1.935	1.735467	0.128	7.4%
PCB 155L	1.440	1.364	1.361	1.336	1.516	1.403516	0.074	5.3%
PCB 167L	2.083	1.993	2.034	2.132	2.307	2.109839	0.122	5.8%
PCB 156L/157L	1.859	1.803	1.846	1.919	2.177	1.920899	0.149	7.8%
PCB 169L	1.817	1.764	1.800	1.909	2.141	1.866246	0.152	8.1%
PCB 188L	1.329	1.302	1.300	1.302	1.414	1.329380	0.049	3.7%
PCB 180L	1.325	1.315	1.317	1.354	1.431	1.348551	0.049	3.6%
PCB 170L	1.140	1.124	1.166	1.189	1.283	1.180125	0.062	5.3%
PCB 189L	2.165	2.062	2.107	2.150	2.302	2.157271	0.090	4.2%
PCB 202L	1.429	1.390	1.400	1.411	1.467	1.419435	0.030	2.1%
PCB 205L	1.493	1.469	1.491	1.514	1.689	1.531299	0.090	5.9%
PCB 208L	1.124	1.101	1.130	1.137	1.205	1.139420	0.039	3.4%
PCB 206L	0.735	0.720	0.740	0.755	0.848	0.759545	0.051	6.7%
PCB 209L	0.703	0.690	0.695	0.709	0.824	0.724318	0.056	7.8%
Cleanup Standard								
PCB 28L	1.704	2.268	2.002	2.251	1.971	2.039286	0.232	11.4%
PCB 111L	1.103	1.408	1.378	1.404	1.422	1.343035	0.135	10.1%
PCB 178L	0.629	0.767	0.766	0.741	0.761	0.732920	0.059	8.0%
Field Spike								
PCB 31L	1.905	1.943	1.831	2.167	1.826	1.934331	0.139	7.2%
PCB 95L	0.971	0.961	0.936	0.926	0.938	0.946176	0.019	2.0%
PCB 153L	1.269	1.220	1.211	1.209	1.217	1.226125	0.025	2.0%

16.02.16


Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01

Calibration: 16 Feb 2016 08:03:15

ID:

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Description: CS1_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1	PCB 1	8.99	1.001	11317	3442	3.29	YES	bb	0.941	-5.9	94	29	1.018
2	PCB 3	10.19	1.001	11134	3432	3.24	YES	bd	0.931	-6.9	93	30	1.004
3	PCB 4	10.30	1.001	5083	3413	1.49	YES	bb	0.924	-7.6	92	31	0.882
4	PCB 15	12.93	1.000	9020	5686	1.59	YES	bb	0.950	-5.0	95	32	0.827
5	PCB 19	11.68	1.002	4176	3908	1.07	YES	bb	0.882	-11.8	88	33	0.793
6	PCB 37	16.70	1.001	7699	7512	1.02	YES	bb	0.965	-3.5	96	34	0.874
7	PCB 54	13.06	1.000	4395	5660	0.78	YES	bb	0.900	-10.0	90	35	0.820
8	PCB 81	21.42	1.001	6238	8814	0.71	YES	bb	0.973	-2.7	97	36	0.999
9	PCB 77	21.87	1.001	7020	9043	0.78	YES	bb	1.039	3.9	104	37	1.119
10	PCB 104	15.92	1.001	5960	3619	1.65	YES	bb	0.940	-6.0	94	38	1.029
11	PCB 123	23.51	1.001	8241	4993	1.65	YES	bd	0.979	-2.1	98	39	0.876
12	PCB 118	23.79	1.001	8416	5358	1.57	YES	db	0.948	-5.2	95	40	0.930
13	PCB 114	24.27	1.001	7980	5399	1.48	YES	bb	0.986	-1.4	99	41	0.996
14	PCB 105	24.84	1.001	8075	5073	1.59	YES	bb	0.969	-3.1	97	42	0.946
15	PCB 126	27.71	1.001	7817	4955	1.58	YES	bd	0.999	-0.1	100	43	0.975
16	PCB 155	19.63	1.001	5466	4233	1.29	YES	bb	0.954	-4.6	95	44	0.951
17	PCB 167	29.53	1.001	7639	6052	1.26	YES	bb	0.981	-1.9	98	45	0.928
18	PCB 156/157	30.70	1.001	14646	11687	1.25	YES	bb	1.965	-1.7	98	46	0.999
19	PCB 169	34.10	1.000	6841	5504	1.24	YES	bb	1.005	0.5	100	47	0.959
20	PCB 188	24.22	1.001	4620	4403	1.05	YES	bb	0.947	-5.3	95	48	0.958
21	PCB 193/180	32.13	1.001	4388	4025	1.09	YES	bb	0.967	-3.3	97	49	1.101
22	PCB 170	33.45	1.001	4362	4120	1.06	YES	bb	1.016	1.6	102	50	1.291
23	PCB 189	36.87	1.001	6391	5864	1.09	YES	bb	1.040	4.0	104	51	0.982
24	PCB 202	29.28	1.001	3489	4035	0.87	YES	bb	0.925	-7.5	92	52	0.913
25	PCB 205	39.73	1.001	4831	5300	0.91	YES	bb	1.079	7.9	108	53	1.177
26	PCB 208	36.32	1.001	2980	3660	0.81	YES	bb	1.001	0.1	100	54	1.025
27	PCB 206	41.73	1.000	2083	2474	0.84	YES	bb	1.047	4.7	105	55	1.075
28	PCB 209	43.56	1.000	2505	2100	1.19	YES	bb	1.092	9.2	109	56	1.136
29	PCB 1L	8.98	0.803	1106028	344244	3.21	YES	bb	101.949	1.9	102	63	0.840
30	PCB 3L	10.17	0.910	1103414	346832	3.18	YES	bb	98.529	-1.5	99	63	0.840
31	PCB 4L	10.28	0.920	589325	374089	1.58	YES	bb	102.816	2.8	103	63	0.558
32	PCB 15L	12.93	1.157	1096431	680884	1.61	YES	bb	95.801	-4.2	96	63	1.029
33	PCB 19L	11.66	1.043	521602	498307	1.05	YES	bb	102.142	2.1	102	63	0.591
34	PCB 37L	16.68	1.087	897243	843618	1.06	YES	bb	96.872	-3.1	97	64	1.924
35	PCB 54L	13.06	0.851	537500	689435	0.78	YES	bb	104.547	4.5	105	64	1.356
36	PCB 81L	21.41	1.395	664854	841531	0.79	YES	bb	95.819	-4.2	96	64	1.665
37	PCB 77L	21.85	1.424	632476	802942	0.79	YES	bb	94.616	-5.4	95	64	1.587
38	PCB 104L	15.91	0.805	575093	356026	1.62	YES	bb	100.597	0.6	101	65	1.163
39	PCB 123L	23.49	1.188	928800	582428	1.60	YES	bd	97.470	-2.5	97	65	1.887
40	PCB 118L	23.77	1.203	911984	568998	1.60	YES	db	97.025	-3.0	97	65	1.849
41	PCB 114L	24.26	1.227	827425	516235	1.60	YES	bb	94.631	-5.4	95	65	1.678
42	PCB 105L	24.83	1.256	855998	533121	1.61	YES	bb	95.171	-4.8	95	65	1.734
43	PCB 126L	27.69	1.401	804201	505514	1.59	YES	bb	94.225	-5.8	94	65	1.635
44	PCB 155L	19.61	0.738	572385	448050	1.28	YES	bb	102.621	2.6	103	66	1.440

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE
Description: CS1_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45	PCB 167L	29.50	1.110	828858	647216	1.28	YES	db	98.748	-1.3	99	66	2.083
46	PCB 156L/157L	30.68	1.155	1473726	1160997	1.27	YES	bb	193.597	-3.2	97	66	1.859
47	PCB 169L	34.08	1.283	720610	566651	1.27	YES	bb	96.324	-3.7	96	66	1.817
48	PCB 188L	24.20	0.911	485383	456375	1.06	YES	bb	99.990	-0.0	100	66	1.329
49	PCB 180L	32.09	0.819	396855	367038	1.08	YES	bb	98.247	-1.8	98	67	1.325
50	PCB 170L	33.42	0.853	341641	315434	1.08	YES	bb	96.570	-3.4	97	67	1.140
51	PCB 189L	36.84	0.940	644370	603772	1.07	YES	bb	100.349	0.3	100	67	2.165
52	PCB 202L	29.25	0.746	392059	431651	0.91	YES	bb	100.650	0.7	101	67	1.429
53	PCB 205L	39.71	1.013	414605	446323	0.93	YES	bb	97.513	-2.5	98	67	1.493
54	PCB 208L	36.29	0.926	285279	362821	0.79	YES	bb	98.654	-1.3	99	67	1.124
55	PCB 206L	41.70	1.064	185976	237790	0.78	YES	bb	96.767	-3.2	97	67	0.735
56	PCB 209L	43.54	1.111	220615	184915	1.19	YES	bb	97.107	-2.9	97	67	0.703
57	PCB 28L	14.41	0.939	790383	751516	1.05	YES	db	83.582	-16.4	84	64	1.704
58	PCB 111L	21.83	1.105	547534	335518	1.63	YES	bb	82.093	-17.9	82	65	1.103
59	PCB 178L	26.98	1.015	229836	215920	1.06	YES	bb	85.844	-14.2	86	66	0.629
60	PCB 31L	14.24	0.928	880367	842961	1.04	YES	bd	98.485	-1.5	98	64	1.905
61	PCB 95L	17.74	0.897	477429	299905	1.59	YES	bb	102.575	2.6	103	65	0.971
62	PCB 153L	25.41	0.956	509722	389436	1.31	YES	bb	103.591	3.6	104	66	1.269
63	PCB 9L	11.18	0.000	1064981	661857	1.61	YES	bb	92.069	-7.9	92	0	17268...
64	PCB 52L	15.35	0.000	398989	505634	0.79	YES	bb	91.787	-8.2	92	0	9046....
65	PCB 101L	19.77	0.000	496481	304444	1.63	YES	bb	90.173	-9.8	90	0	8009....
66	PCB 138L	26.57	0.000	401854	306634	1.31	YES	bb	87.765	-12.2	88	0	7084....
67	PCB 194L	39.18	0.000	276425	300136	0.92	YES	bb	88.279	-11.7	88	0	5765....
68	Total MoCB F1								1.872			29	
69	Total MoCB labeled ...								200.478			63	
70	Total DiCB F1								0.924			31	
71	Total DiCB labeled F1								102.816			63	
72	Total DiCB F2								0.950			32	
73	Total DiCB labeled F2								187.871			63	
74	Total TriCB F2								0.882			33	
75	Total TriCB labeled F2								102.142			63	
76	Total TriCB F3								0.965			34	
77	Total TriCB labeled F3								278.938			64	
78	Total TeCB F2								0.900			35	
79	Total TeCB labeled F2								104.547			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								91.787			64	
82	Total TeCB F4								2.012			36	
83	Total TeCB labeled F4								190.435			64	
84	Total PeCB F3								0.940			38	
85	Total PeCB labeled F3								100.597			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								274.842			65	
88	Total PeCB F5								4.880			39	
89	Total PeCB labeled F5								478.523			65	
90	Total HxCB F4								0.954			44	
91	Total HxCB labeled F4								102.621			66	
92	Total HxCB F5											45	

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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ID:

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Description: CS1_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio	Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93	Total HxCB labeled F5									191.356			66	
94	Total HxCB F6									3.951			45	
95	Total HxCB labeled F6									388.669			66	
96	Total HpCB F5									0.947			48	
97	Total HpCB labeled ...									185.834			67	
98	Total HpCB F6									1.983			49	
99	Total HpCB labeled ...									194.817			67	
100	Total HpCB F7									1.040			51	
101	Total HpCB labeled ...									100.349			67	
102	Total OcCB F6									0.925			52	
103	Total OcCB labeled ...									100.650			67	
104	Total OcCB F7									1.079			53	
105	Total OcCB labeled ...									185.792			67	
106	Total NoCB F7									2.049			54	
107	Total NoCB labeled ...									195.420			67	
108	Total DeCB F7									1.092			56	
109	Total DeCB labeled ...									97.107			67	
110	lockmass F1												0	
111	lockmass F2												0	
112	lockmass F3												0	
113	lockmass F4												0	
114	lockmass F5												0	
115	lockmass F6												0	
116	lockmass F7												0	

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01

Calibration: 16 Feb 2016 08:03:15

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

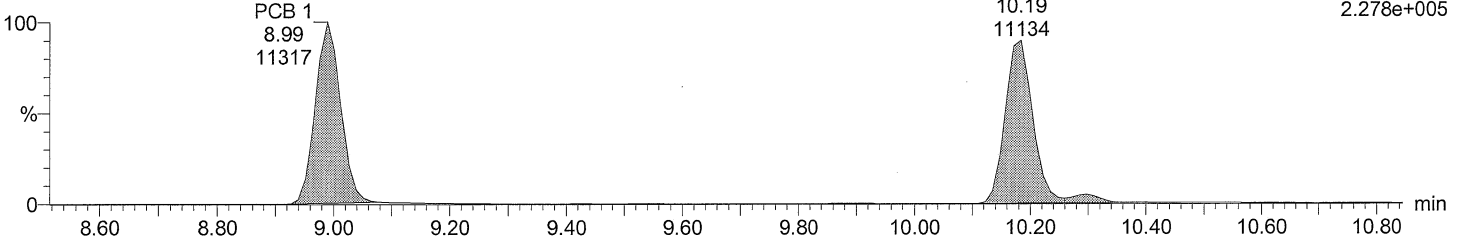
Time: 18:43:05

Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

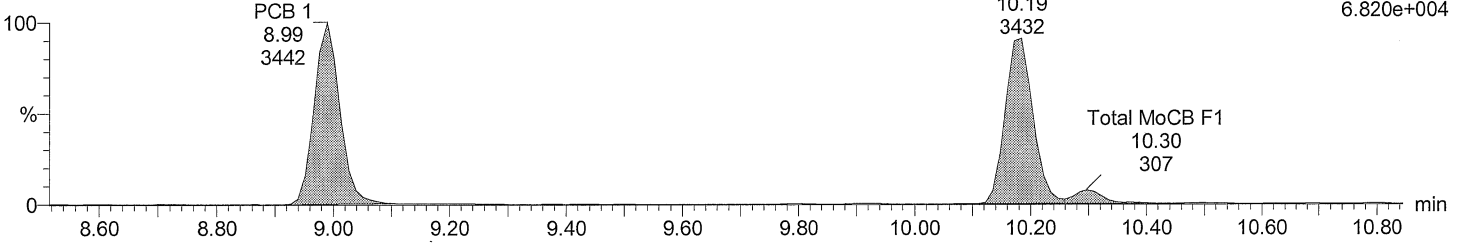
F1:SIR of 10 channels,EI+
188.0393
2.278e+005



Total MoCB F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

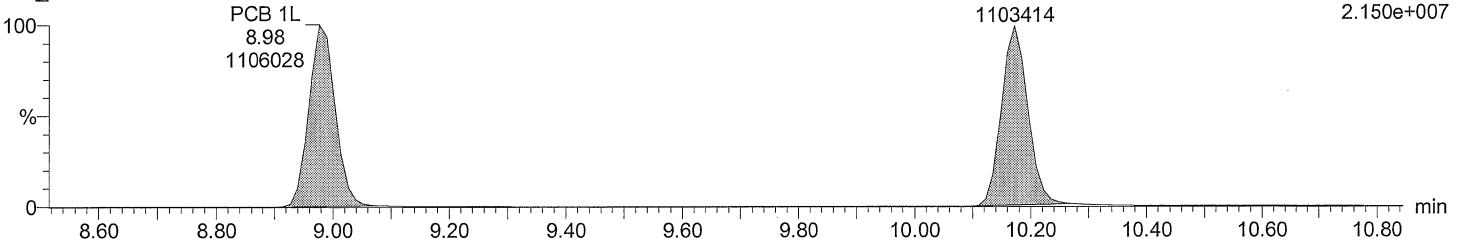
F1:SIR of 10 channels,EI+
190.0363
6.820e+004



Total MoCB labeled F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

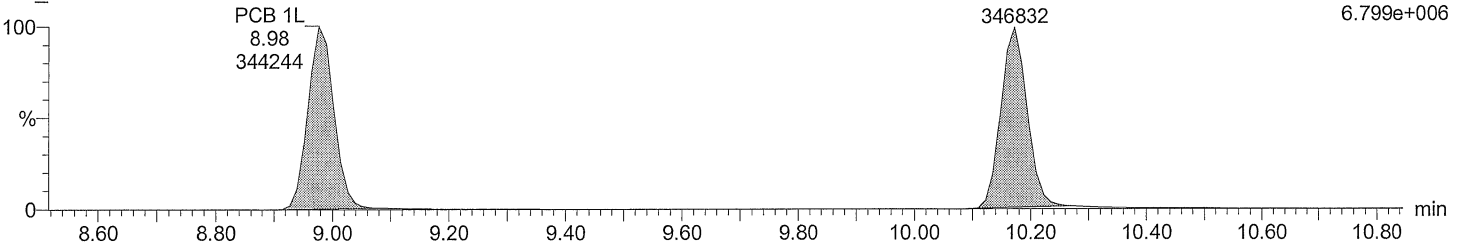
F1:SIR of 10 channels,EI+
200.0795
2.150e+007



Total MoCB labeled F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F1:SIR of 10 channels,EI+
202.076
6.799e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

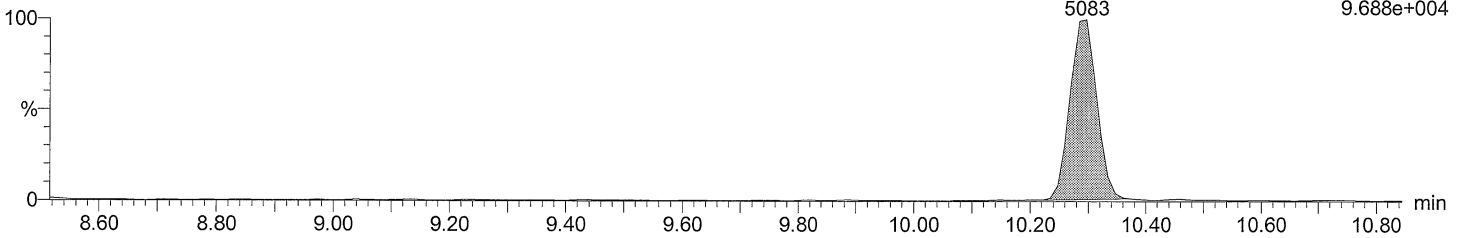
Time: 18:43:05

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

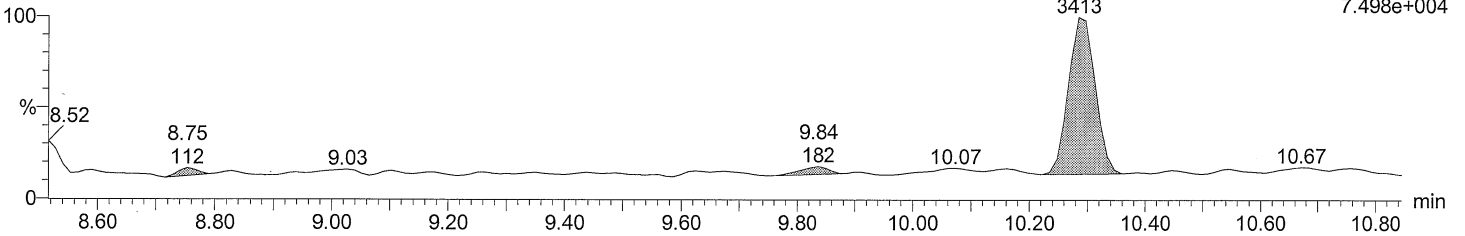
PCB 4
10.30
5083
F1:SIR of 10 channels,EI+
222.0003
9.688e+004



Total DiCB F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

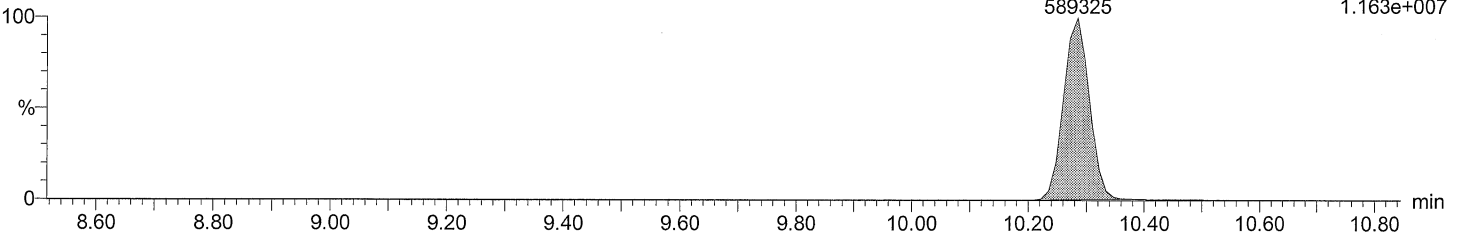
PCB 4
10.28
3413
F1:SIR of 10 channels,EI+
223.9974
7.498e+004



Total DiCB labeled F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

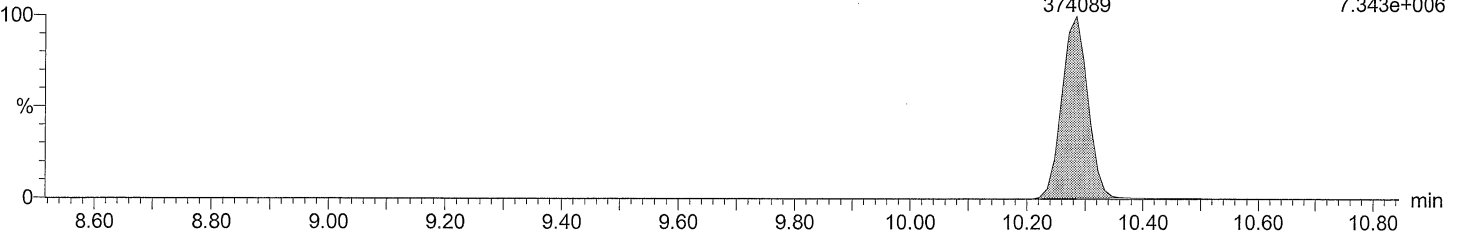
PCB 4L
10.28
589325
F1:SIR of 10 channels,EI+
234.0406
1.163e+007



Total DiCB labeled F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 4L
10.28
374089
F1:SIR of 10 channels,EI+
236.0376
7.343e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

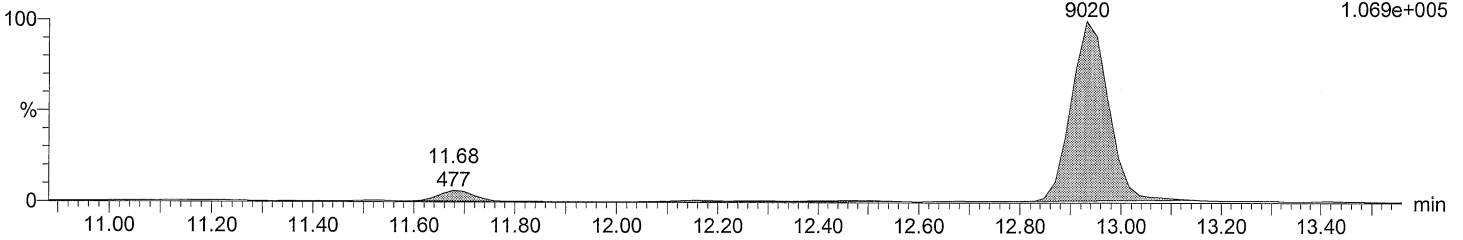
Time: 18:43:05

Instrument: Autospec-UltimaE

Total DiCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

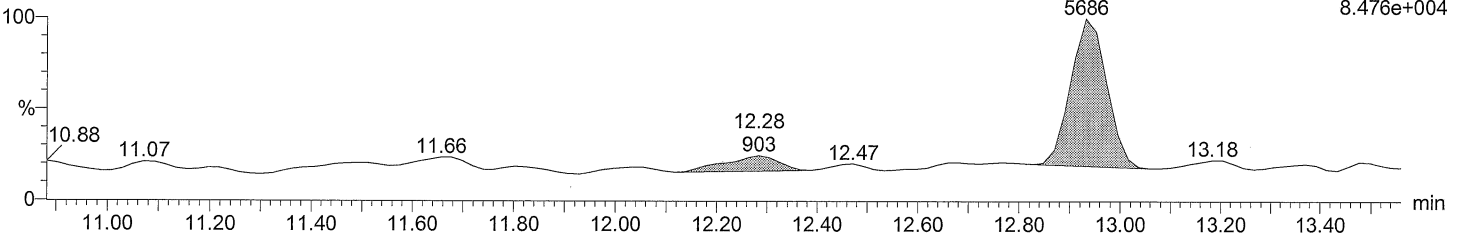
PCB 15
12.93
9020
F2:SIR of 16 channels,EI+
222.0003
1.069e+005



Total DiCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

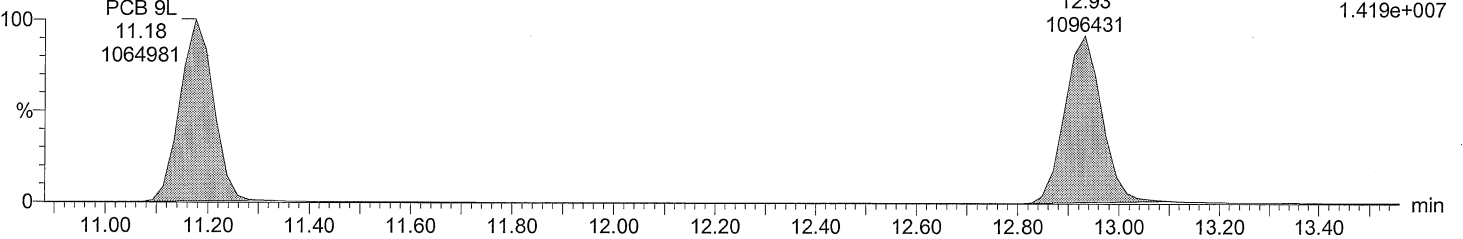
PCB 15
12.93
5686
F2:SIR of 16 channels,EI+
223.9974
8.476e+004



Total DiCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

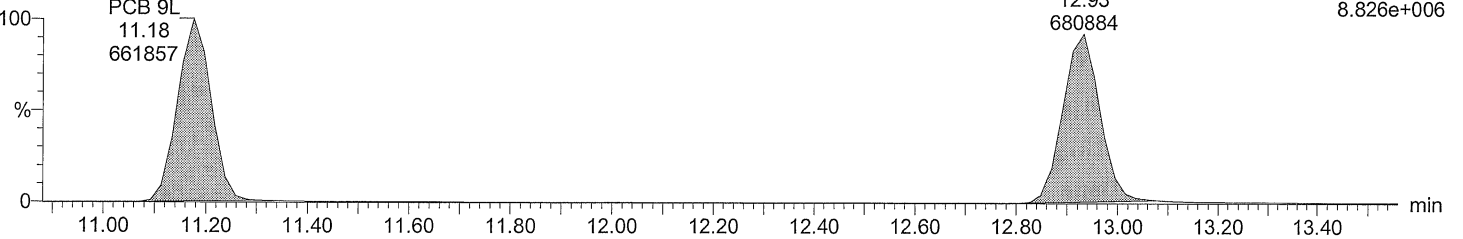
PCB 15L
12.93
1096431
F2:SIR of 16 channels,EI+
234.0406
1.419e+007



Total DiCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 15L
12.93
680884
F2:SIR of 16 channels,EI+
236.0376
8.826e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

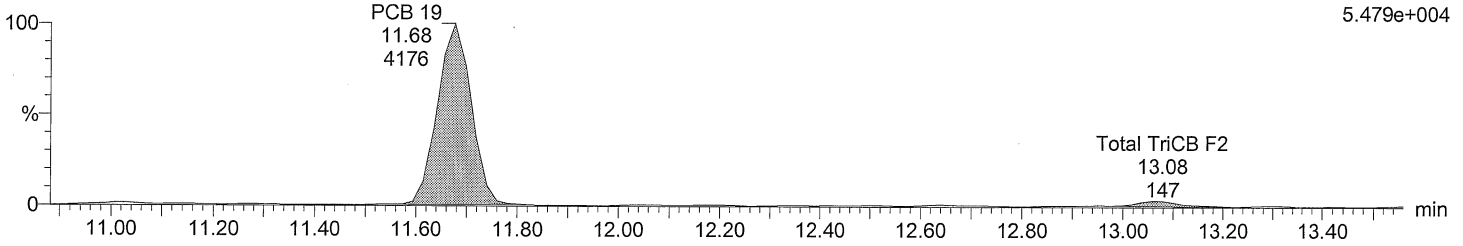
Time: 18:43:05

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

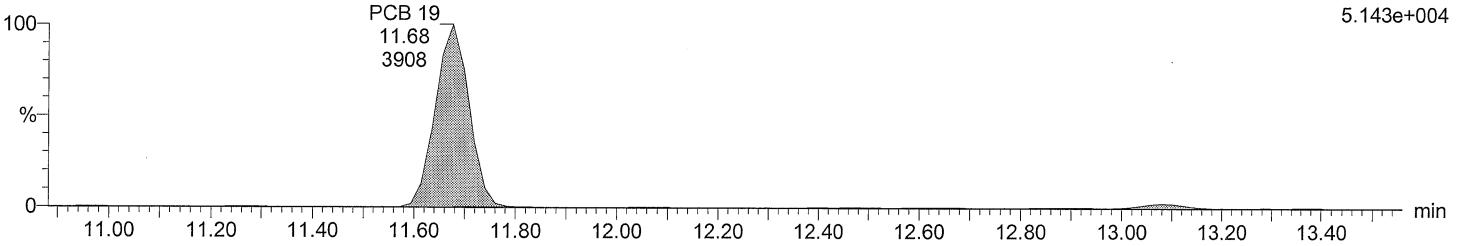
F2:SIR of 16 channels,EI+
255.9614
5.479e+004



Total TriCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

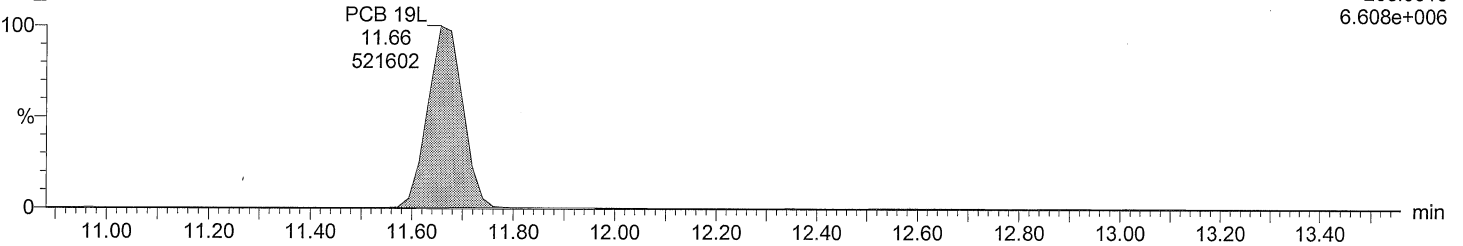
F2:SIR of 16 channels,EI+
257.9584
5.143e+004



Total TriCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

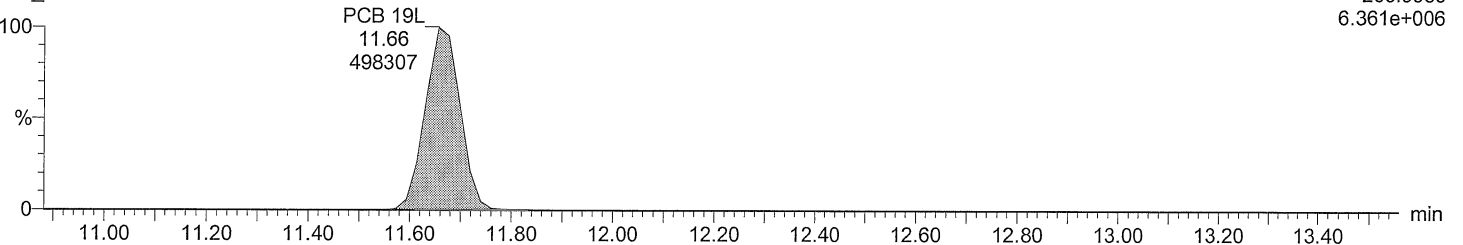
F2:SIR of 16 channels,EI+
268.0016
6.608e+006



Total TriCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F2:SIR of 16 channels,EI+
269.9986
6.361e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

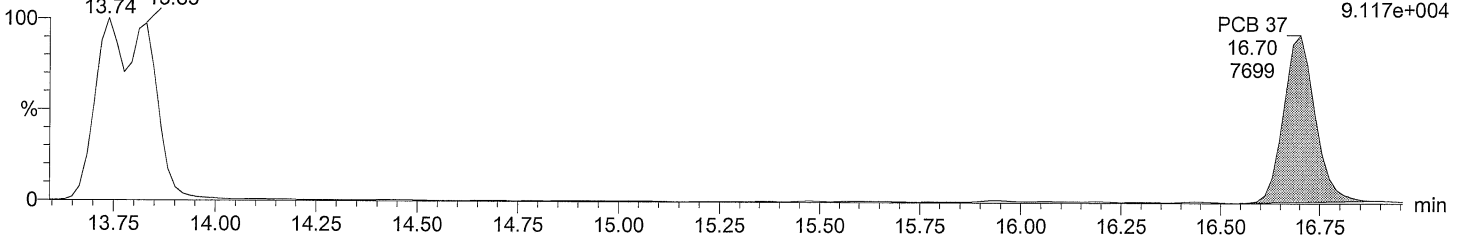
Time: 18:43:05

Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS002 Smooth(SG,3x1)

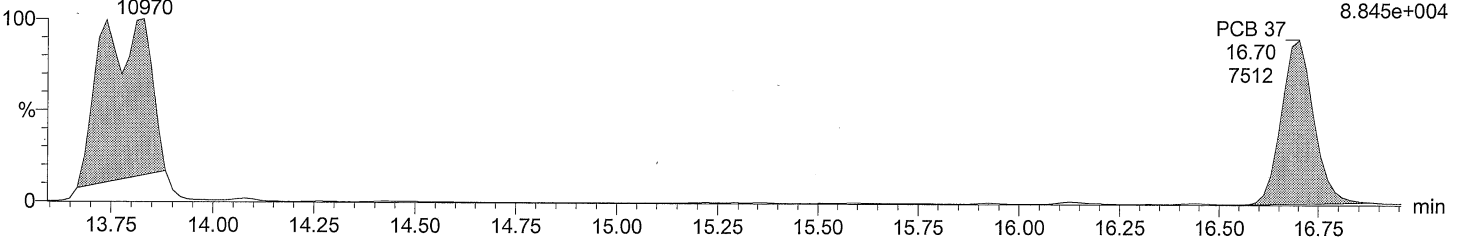
CS1_PCB 150417CXU



Total TriCB F3

M2160211AS002 Smooth(SG,3x1)

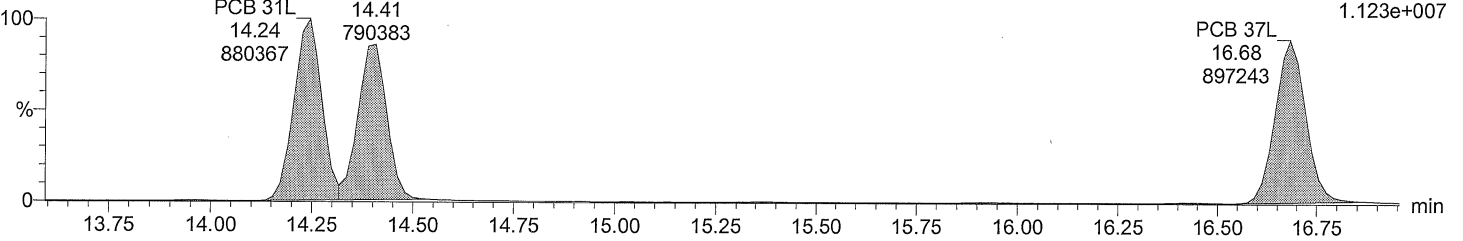
CS1_PCB 150417CXU



Total TriCB labeled F3

M2160211AS002 Smooth(SG,3x1)

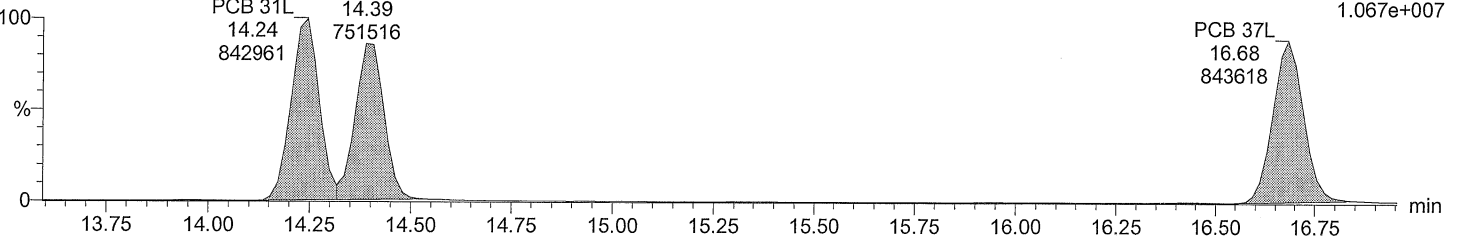
CS1_PCB 150417CXU



Total TriCB labeled F3

M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

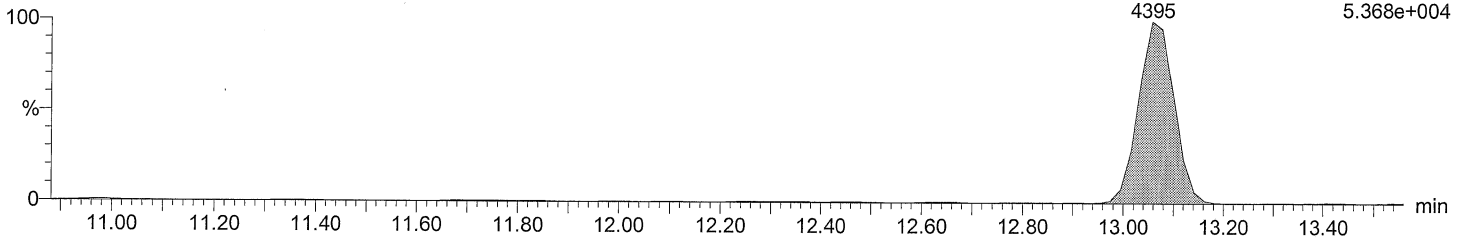
Time: 18:43:05

Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

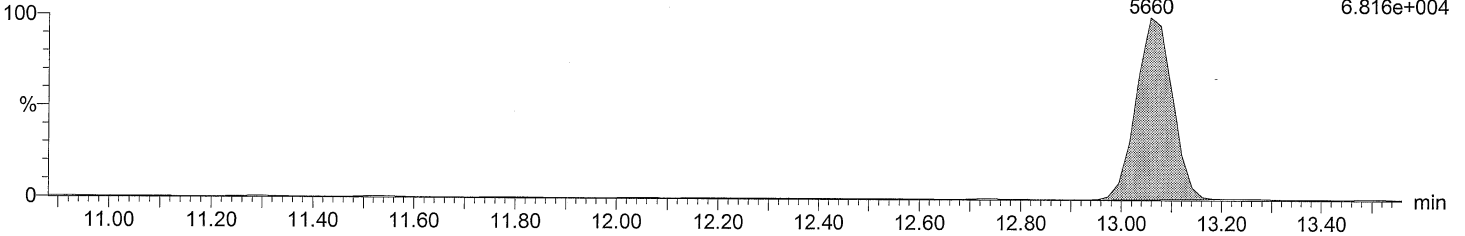
PCB 54 F2:SIR of 16 channels,EI+
13.06 289.9224
4395 5.368e+004



Total TeCB F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

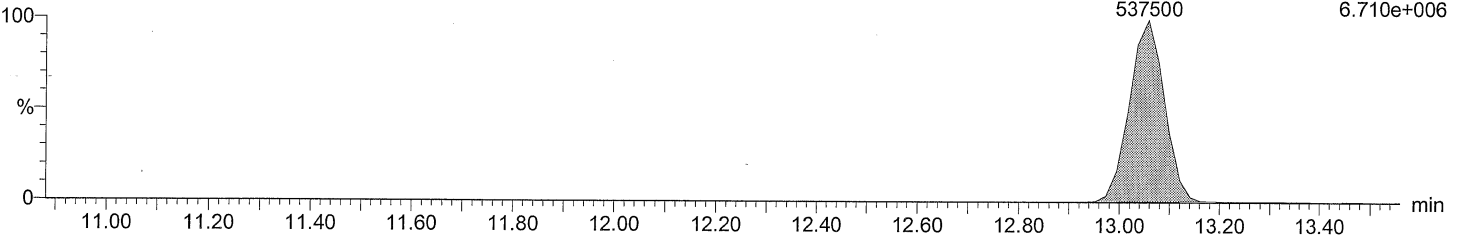
PCB 54 F2:SIR of 16 channels,EI+
13.06 291.9194
5660 6.816e+004



Total TeCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

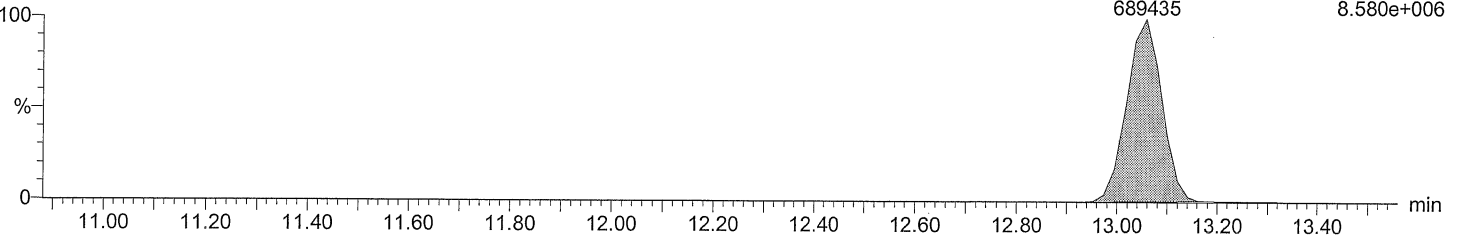
PCB 54L F2:SIR of 16 channels,EI+
13.06 301.9626
537500 6.710e+006



Total TeCB labeled F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 54L F2:SIR of 16 channels,EI+
13.06 303.9597
689435 8.580e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

Total TeCB F3

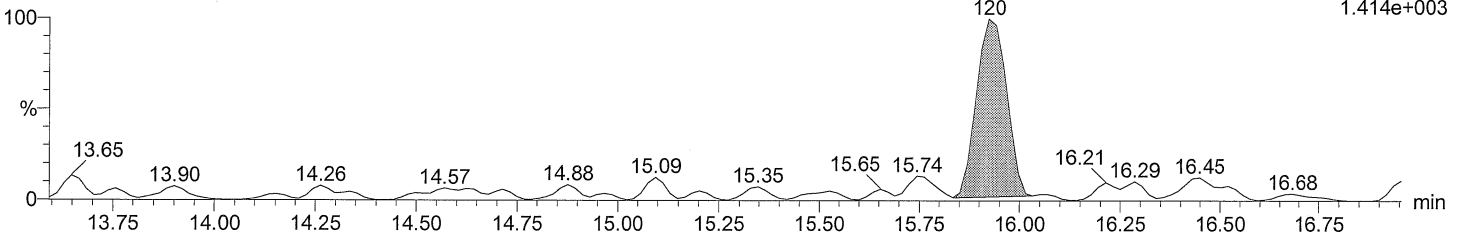
F3:SIR of 14 channels,EI+

15.92

289.9224

120

1.414e+003



Total TeCB F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

Total TeCB F3

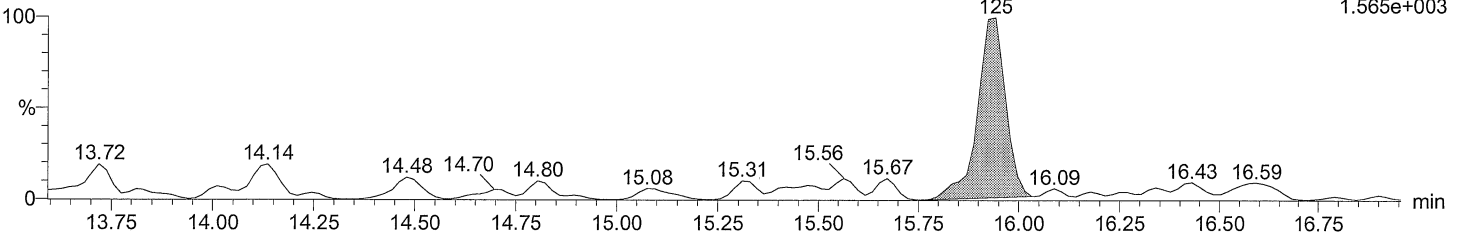
F3:SIR of 14 channels,EI+

15.94

291.9194

125

1.565e+003



Total TeCB labeled F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 52L

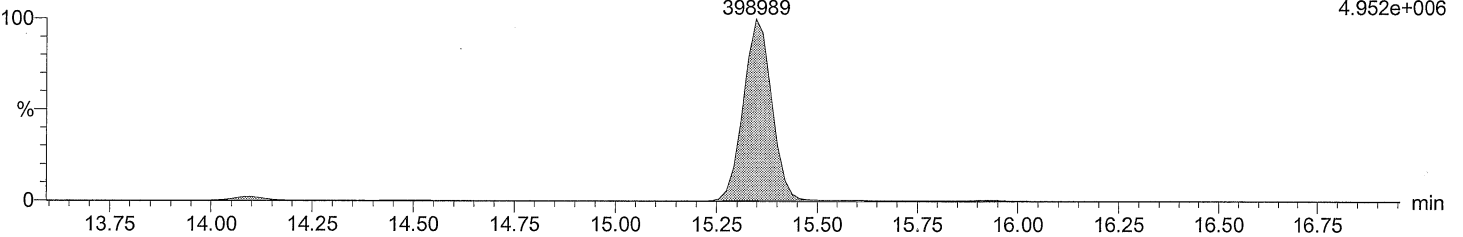
F3:SIR of 14 channels,EI+

15.35

301.9626

398989

4.952e+006



Total TeCB labeled F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 52L

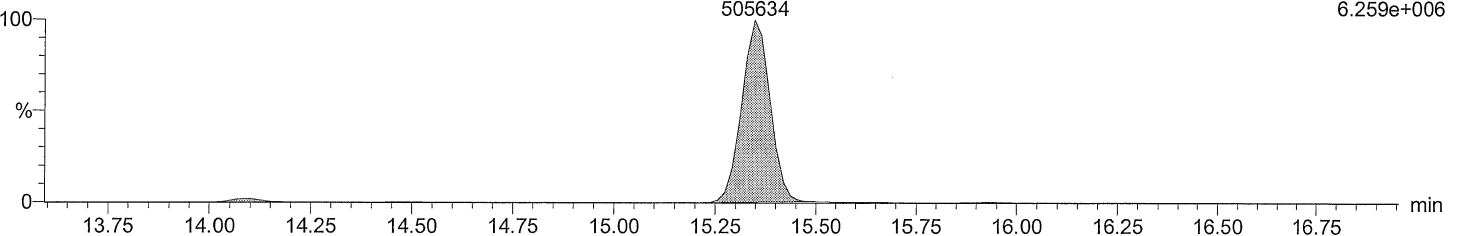
F3:SIR of 14 channels,EI+

15.35

303.9597

505634

6.259e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

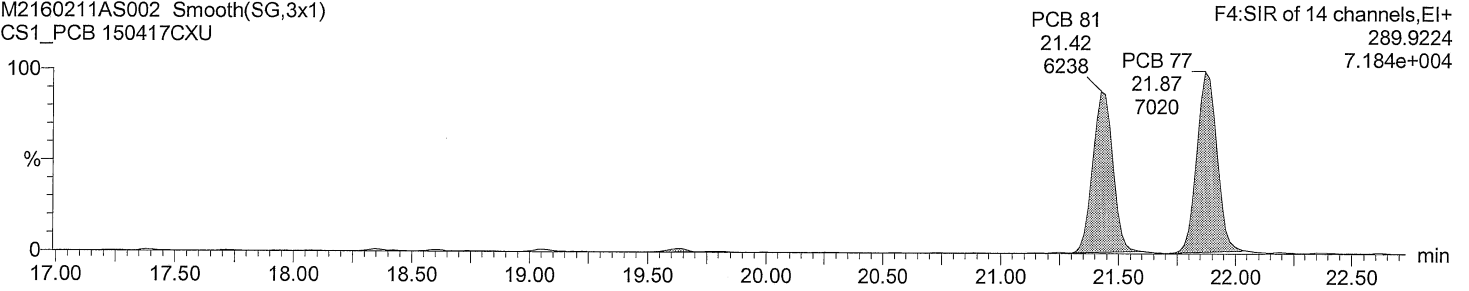
Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

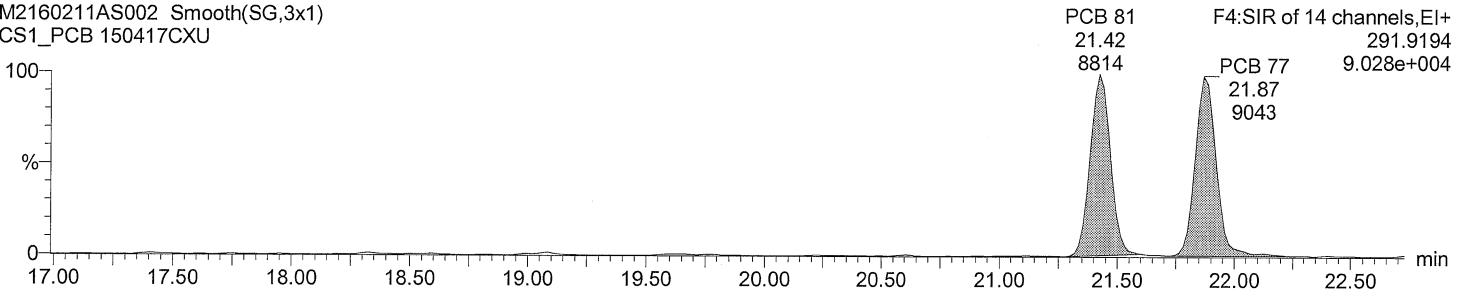
Total TeCB F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU



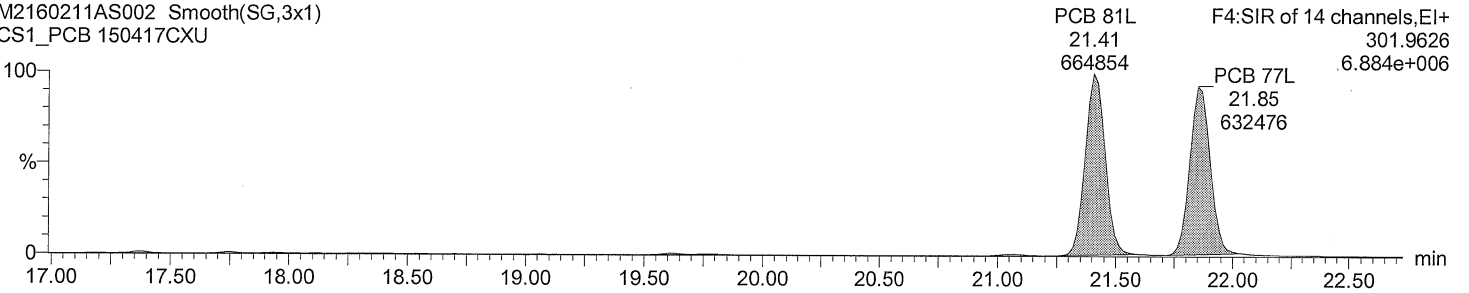
Total TeCB F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU



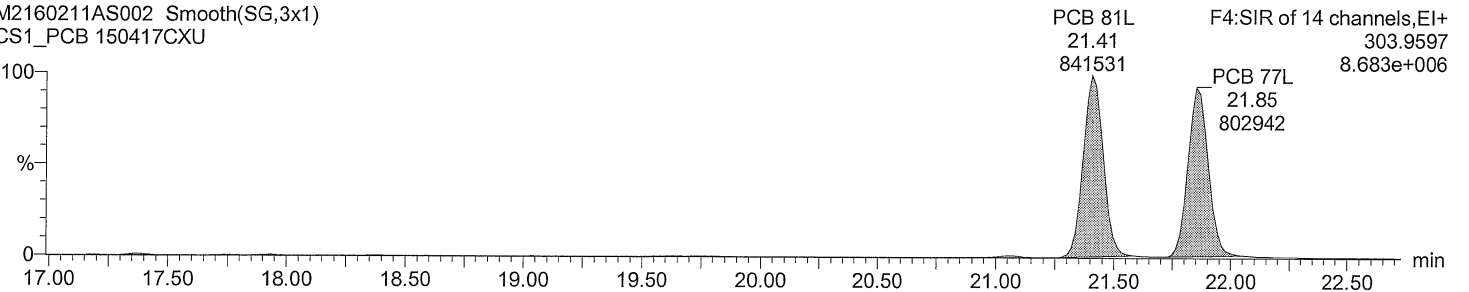
Total TeCB labeled F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU



Total TeCB labeled F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

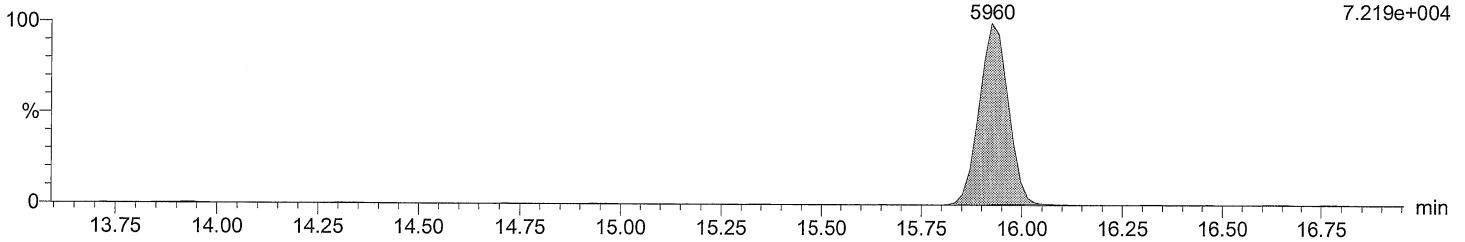
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 104
15.92
5960

F3:SIR of 14 channels,EI+
325.8805
7.219e+004

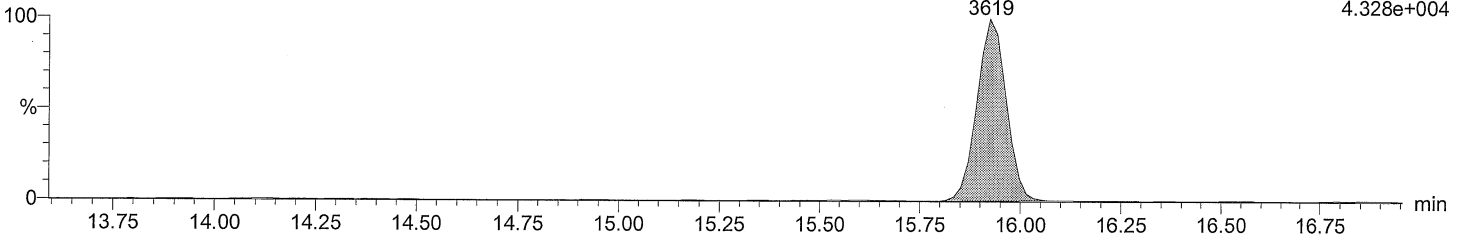


Total PeCB F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 104
15.92
3619

F3:SIR of 14 channels,EI+
327.8775
4.328e+004

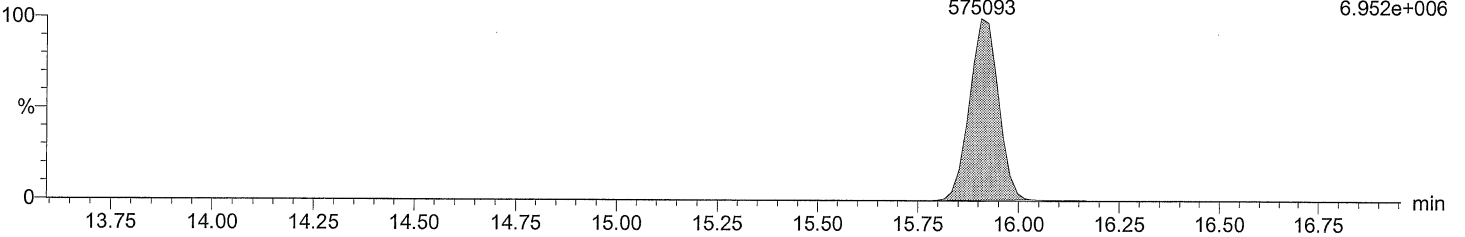


Total PeCB labeled F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 104L
15.91
575093

F3:SIR of 14 channels,EI+
337.9207
6.952e+006

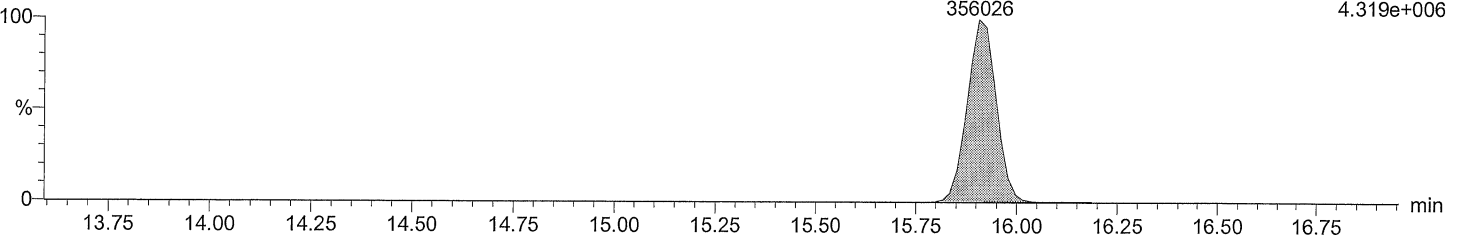


Total PeCB labeled F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 104L
15.91
356026

F3:SIR of 14 channels,EI+
339.9178
4.319e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Total PeCB F4

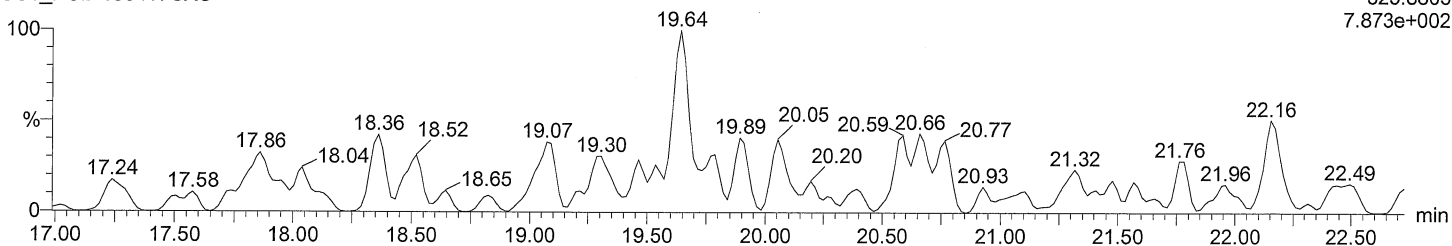
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F4:SIR of 14 channels,EI+

325.8805

7.873e+002



Total PeCB F4

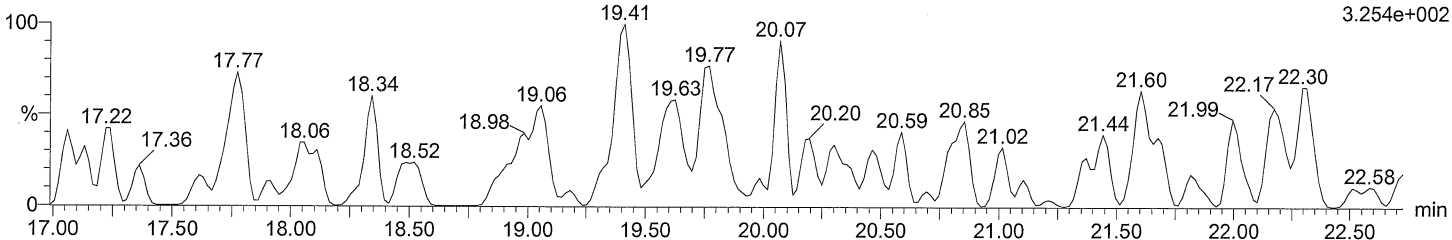
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F4:SIR of 14 channels,EI+

327.8775

3.254e+002



Total PeCB labeled F4

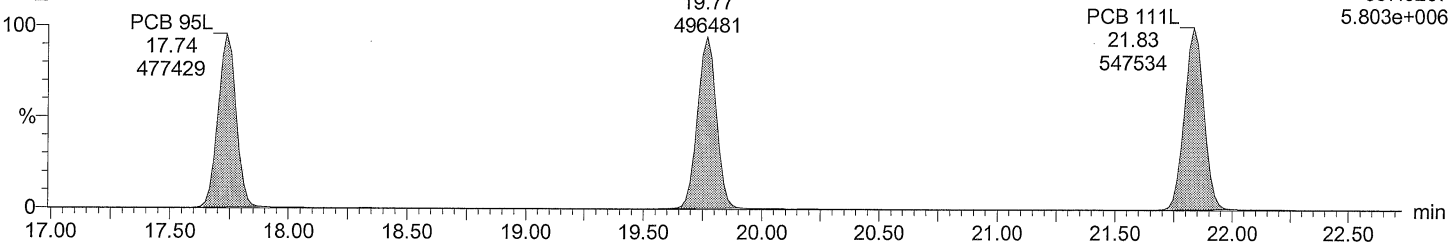
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F4:SIR of 14 channels,EI+

337.9207

5.803e+006



Total PeCB labeled F4

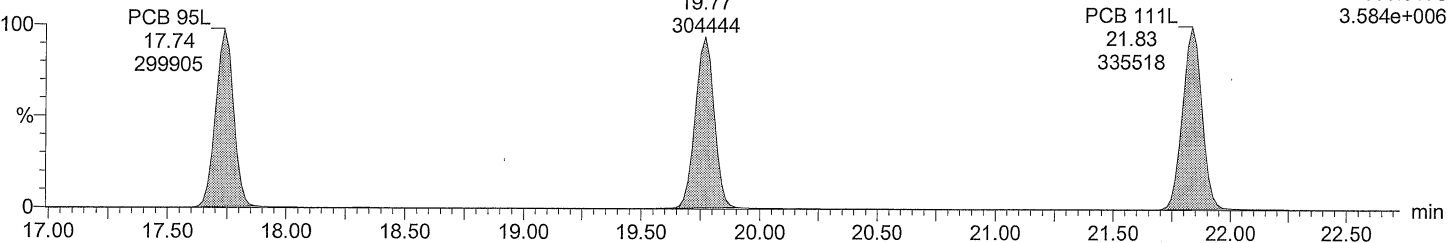
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F4:SIR of 14 channels,EI+

339.9178

3.584e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDIM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

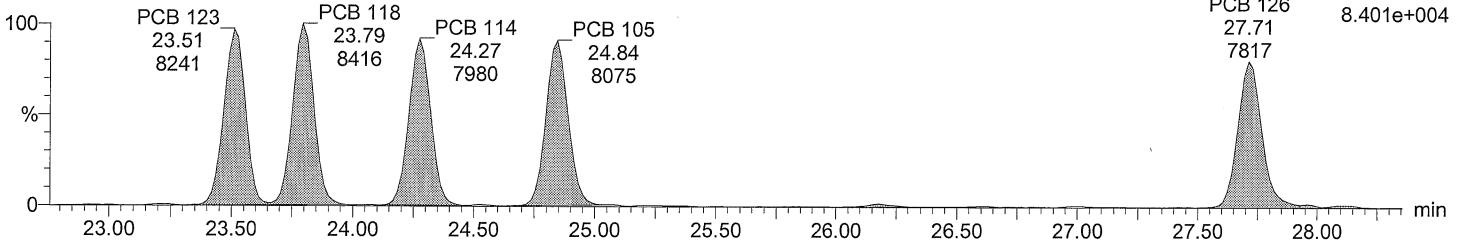
Time: 18:43:05

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS002 Smooth(SG,3x1)

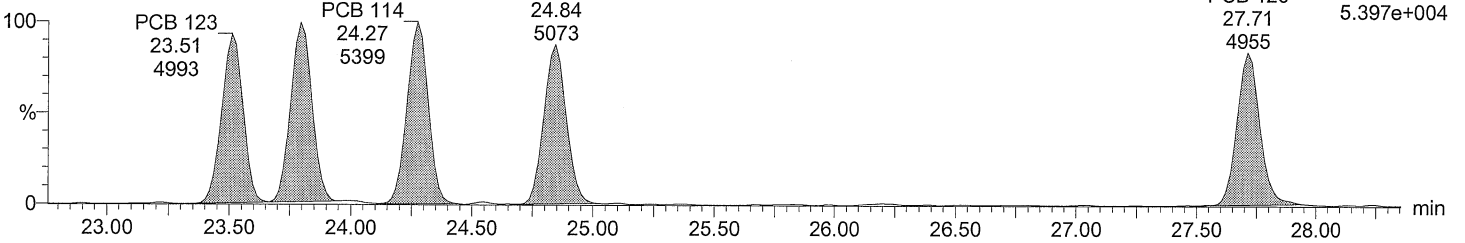
CS1_PCB 150417CXU



Total PeCB F5

M2160211AS002 Smooth(SG,3x1)

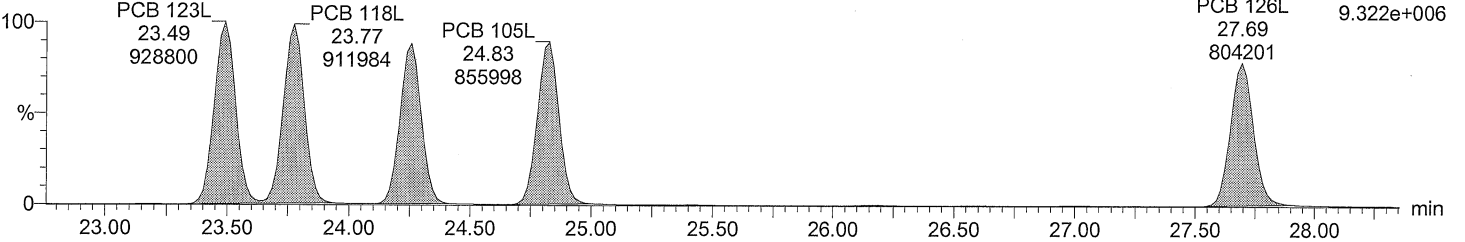
CS1_PCB 150417CXU



Total PeCB labeled F5

M2160211AS002 Smooth(SG,3x1)

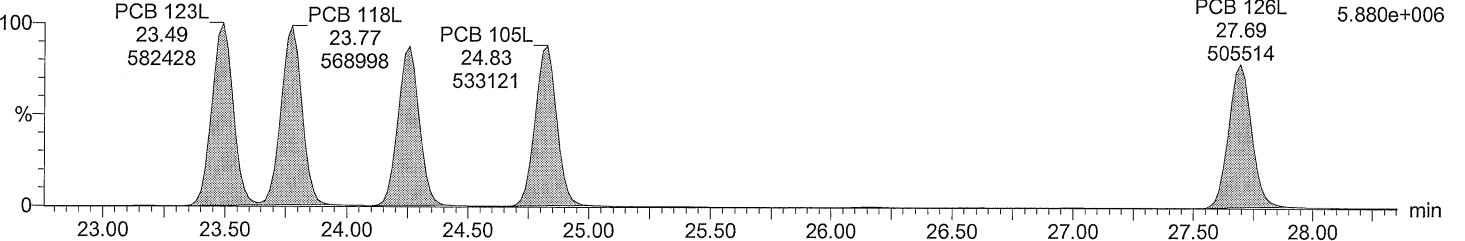
CS1_PCB 150417CXU



Total PeCB labeled F5

M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

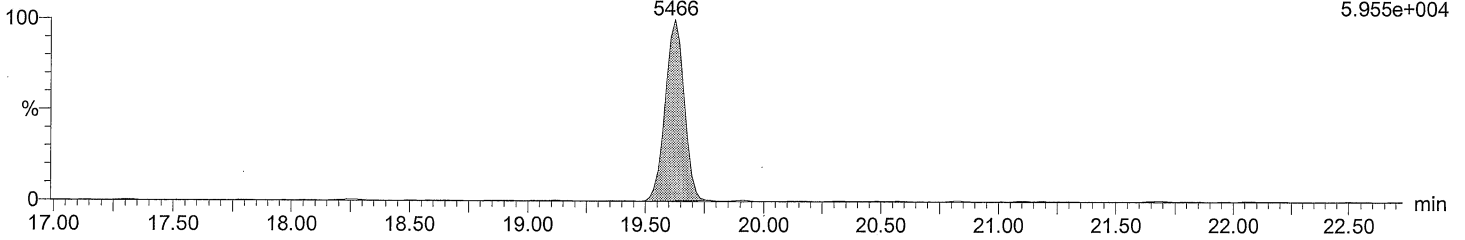
Instrument: Autospec-UltimaE

Total HxCB F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 155
19.63
5466

F4:SIR of 14 channels,EI+
359.8415
5.955e+004

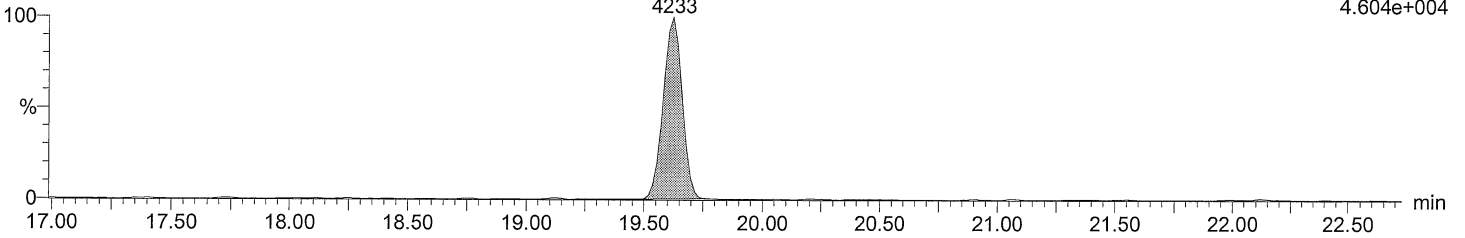


Total HxCB F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 155
19.63
4233

F4:SIR of 14 channels,EI+
361.8385
4.604e+004

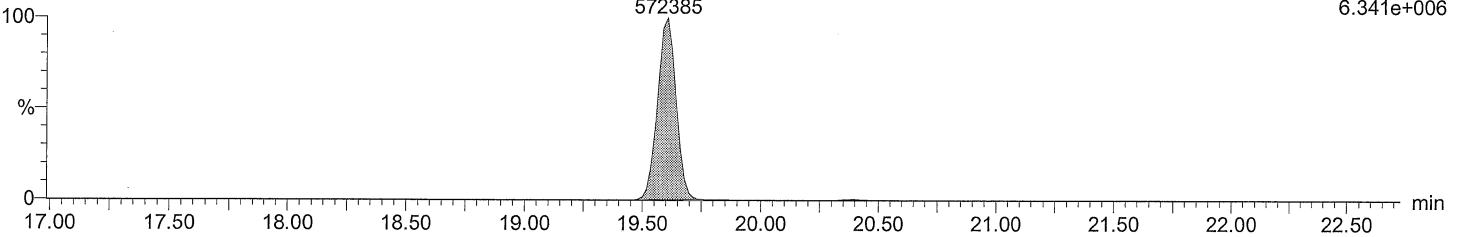


Total HxCB labeled F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 155L
19.61
572385

F4:SIR of 14 channels,EI+
371.8817
6.341e+006

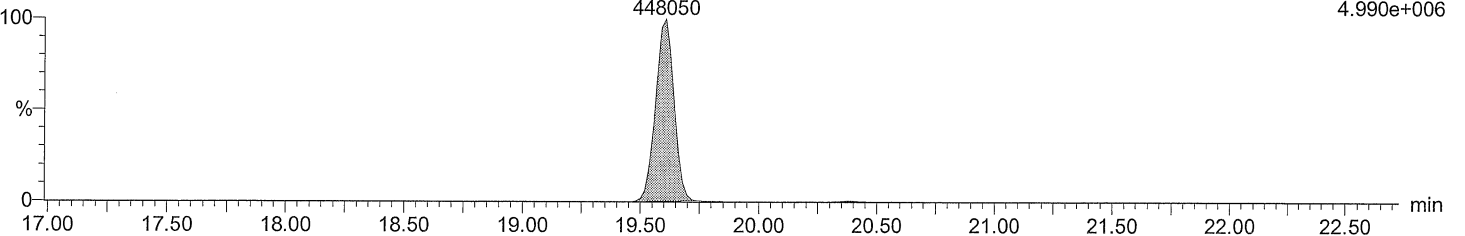


Total HxCB labeled F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 155L
19.61
448050

F4:SIR of 14 channels,EI+
373.8788
4.990e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

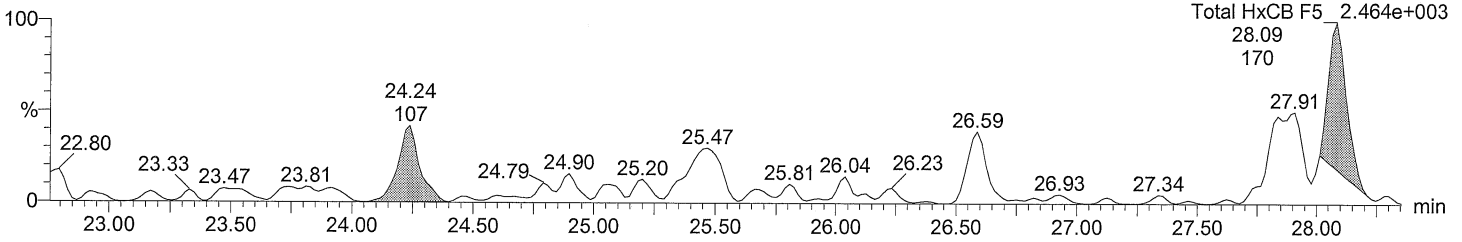
Time: 18:43:05

Instrument: Autospec-UltimaE

Total HxCB F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

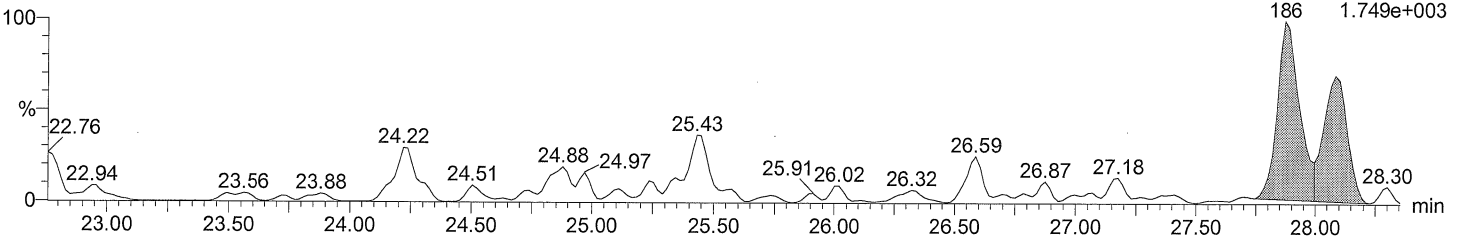
F5:SIR of 14 channels,EI+
359.8415
Total HxCB F5 2.464e+003
28.09
170



Total HxCB F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

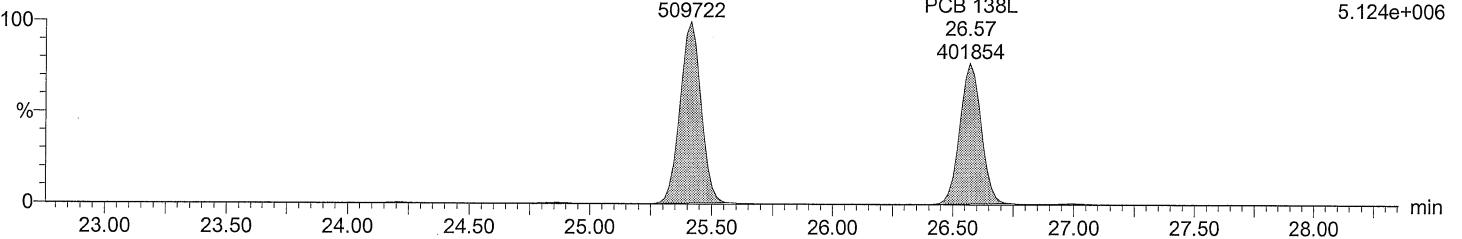
F5:SIR of 14 channels,EI+
27.87 361.8385
186 1.749e+003



Total HxCB labeled F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

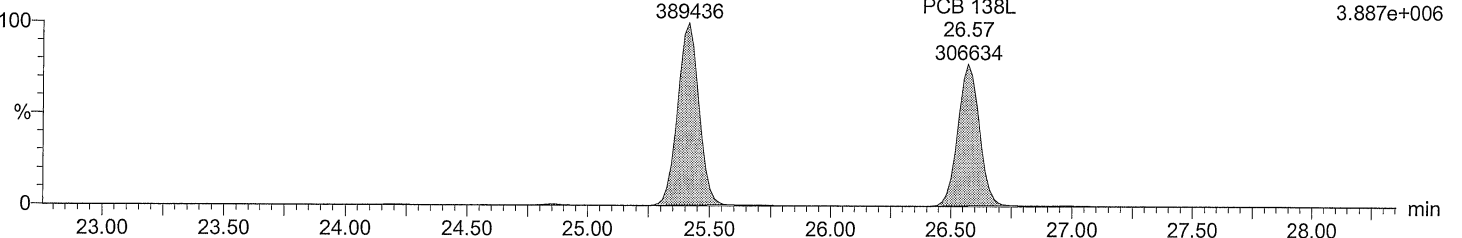
F5:SIR of 14 channels,EI+
371.8817
5.124e+006



Total HxCB labeled F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F5:SIR of 14 channels,EI+
373.8788
3.887e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

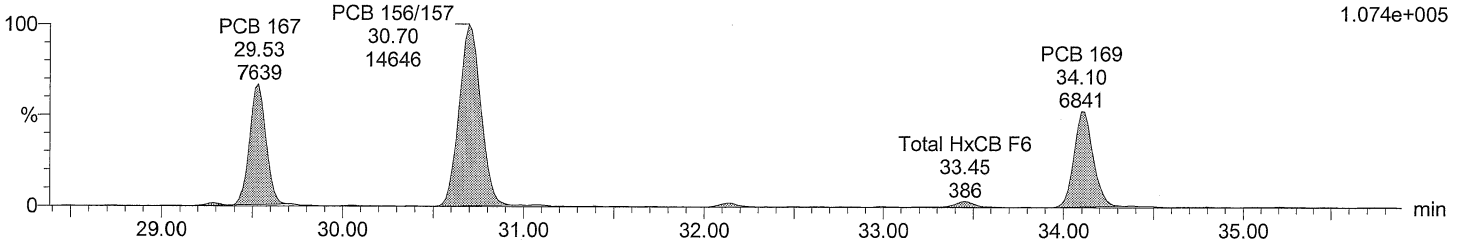
Time: 18:43:05

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

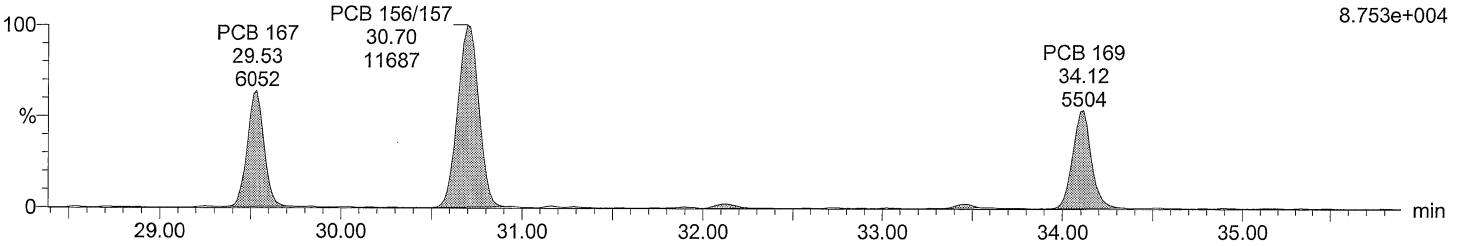
F6:SIR of 14 channels,EI+
359.8415
1.074e+005



Total HxCB F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

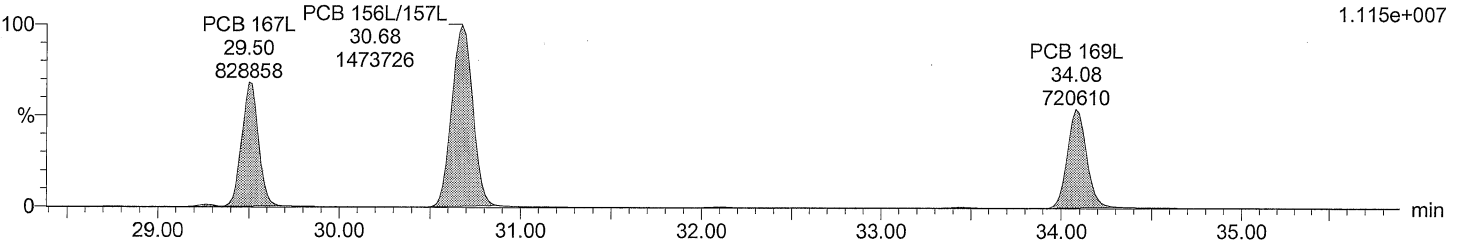
F6:SIR of 14 channels,EI+
361.8385
8.753e+004



Total HxCB labeled F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

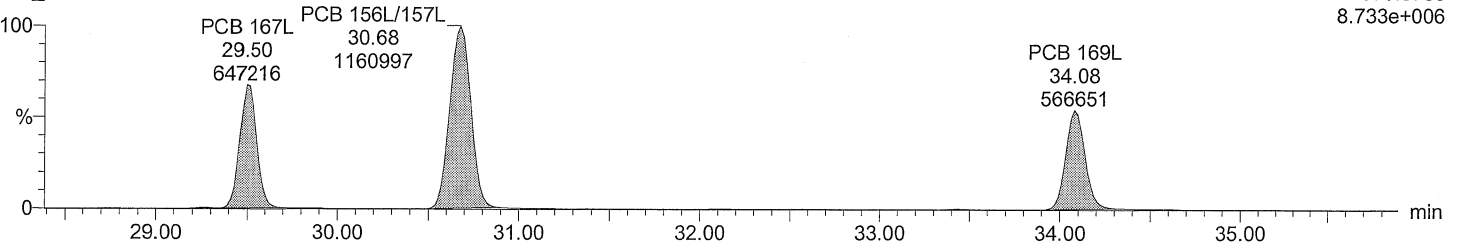
F6:SIR of 14 channels,EI+
371.8817
1.115e+007



Total HxCB labeled F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F6:SIR of 14 channels,EI+
373.8788
8.733e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

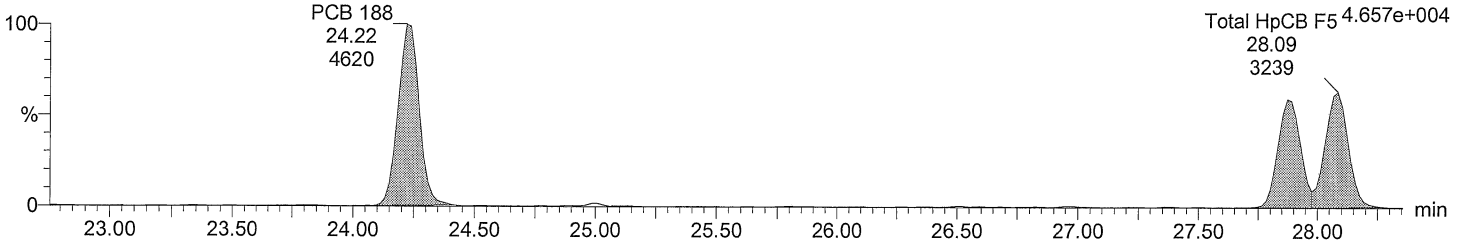
Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F5:SIR of 14 channels,EI+
393.8025

Total HpCB F5 4.657e+004

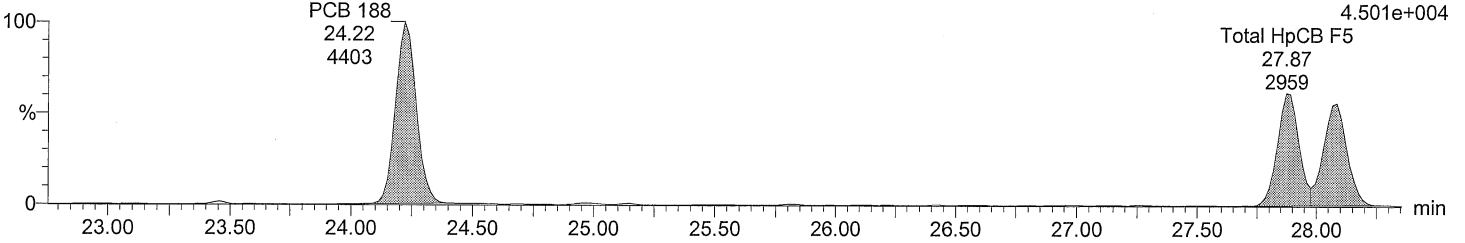


Total HpCB F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F5:SIR of 14 channels,EI+
395.7995

Total HpCB F5 4.501e+004

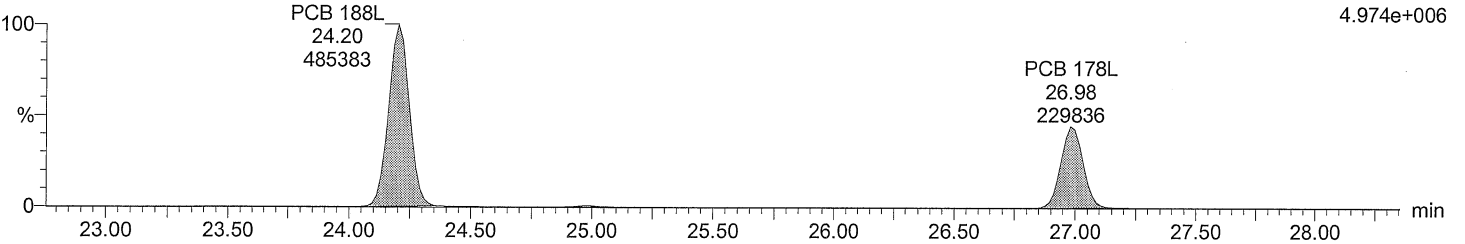


Total HpCB labeled F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F5:SIR of 14 channels,EI+
405.8428

4.974e+006

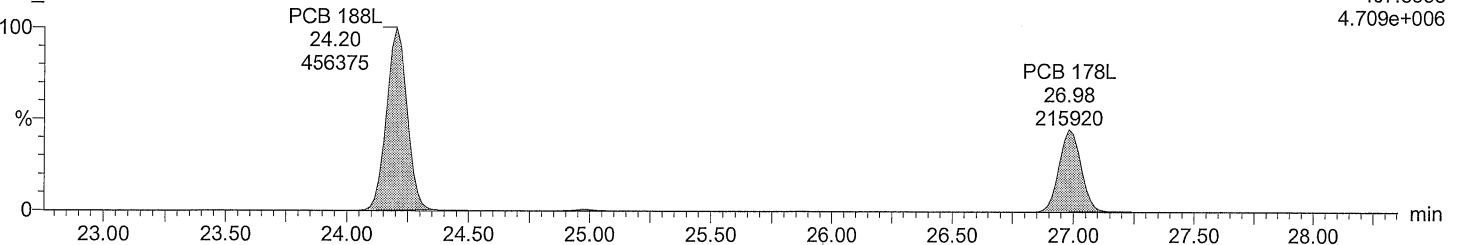


Total HpCB labeled F5

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F5:SIR of 14 channels,EI+
407.8398

4.709e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Total HpCB F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 193/180

32.13

4388

PCB 170

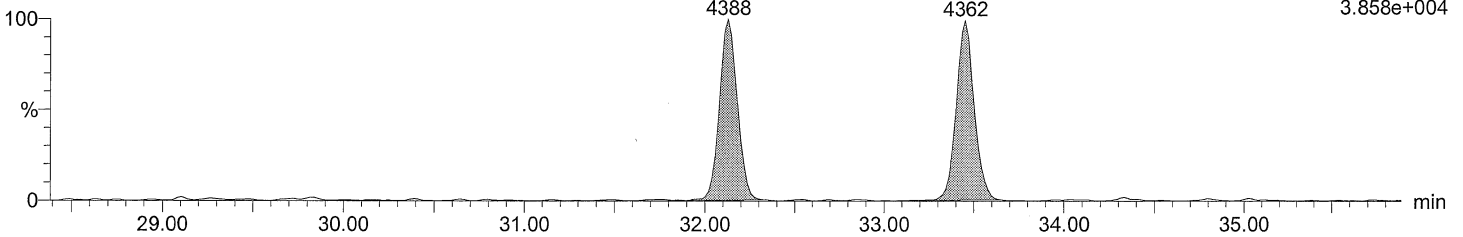
33.45

4362

F6:SIR of 14 channels,EI+

393.8025

3.858e+004



Total HpCB F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 193/180

32.13

4025

PCB 170

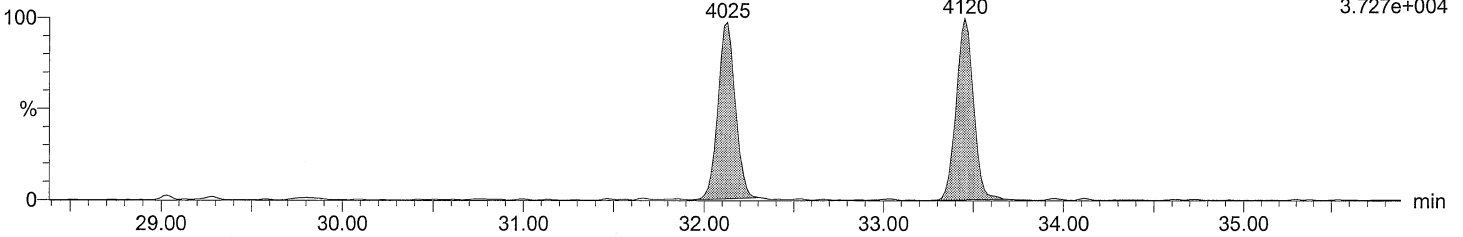
33.45

4120

F6:SIR of 14 channels,EI+

395.7995

3.727e+004



Total HpCB labeled F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 180L

32.09

396855

PCB 170L

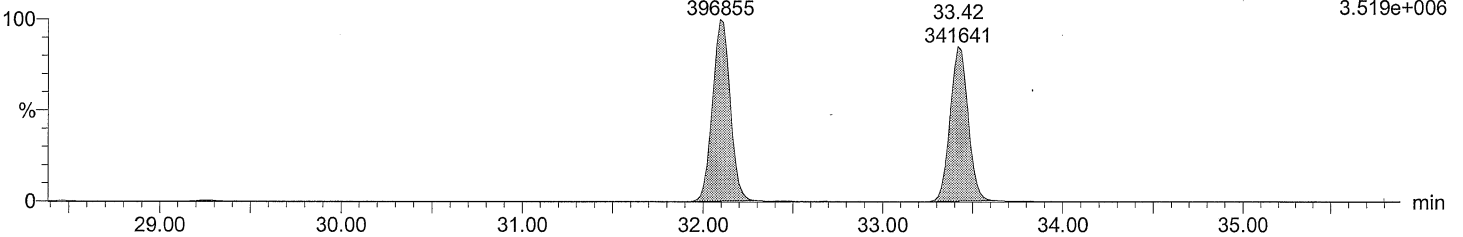
33.42

341641

F6:SIR of 14 channels,EI+

405.8428

3.519e+006



Total HpCB labeled F6

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 180L

32.09

367038

PCB 170L

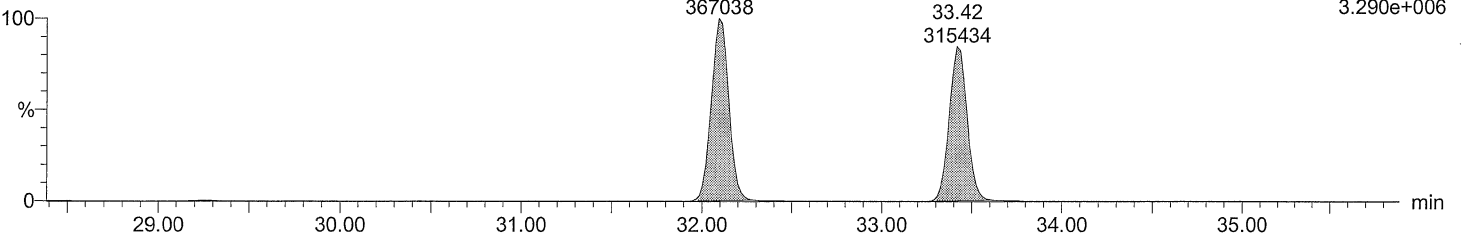
33.42

315434

F6:SIR of 14 channels,EI+

407.8398

3.290e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Total HpCB F7

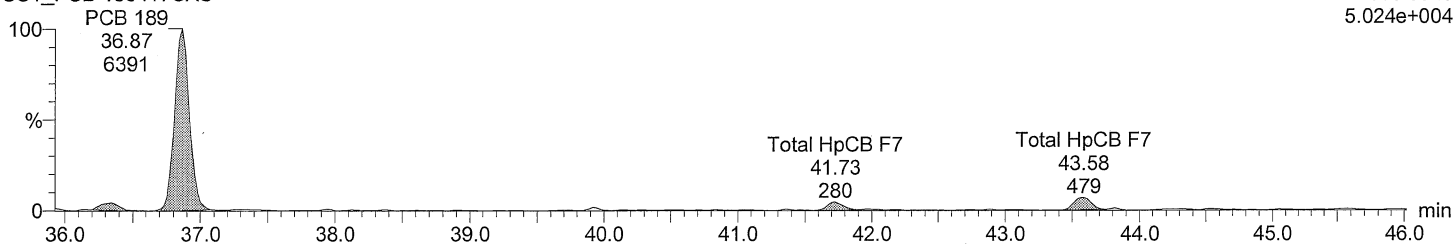
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F7:SIR of 18 channels,EI+

393.8025

5.024e+004



Total HpCB F7

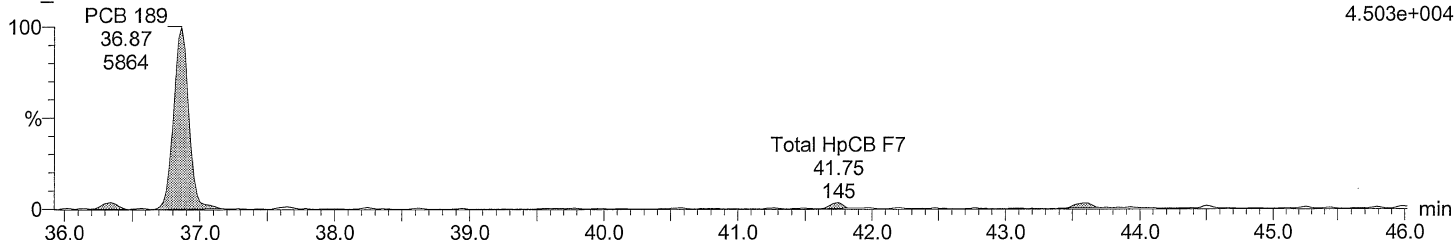
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F7:SIR of 18 channels,EI+

395.7995

4.503e+004



Total HpCB labeled F7

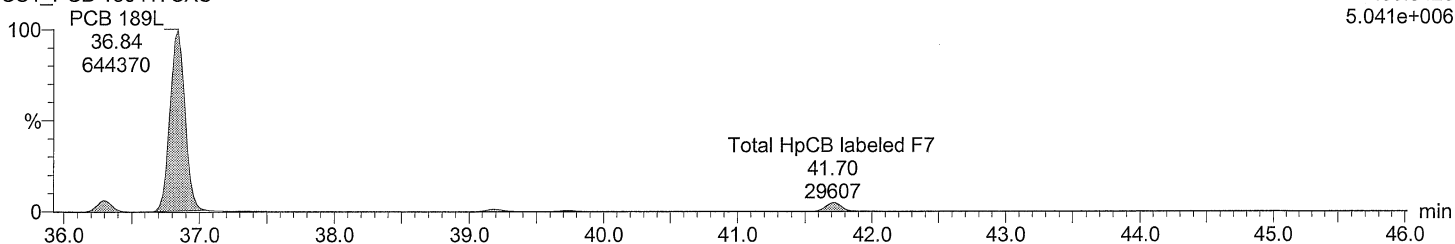
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F7:SIR of 18 channels,EI+

405.8428

5.041e+006



Total HpCB labeled F7

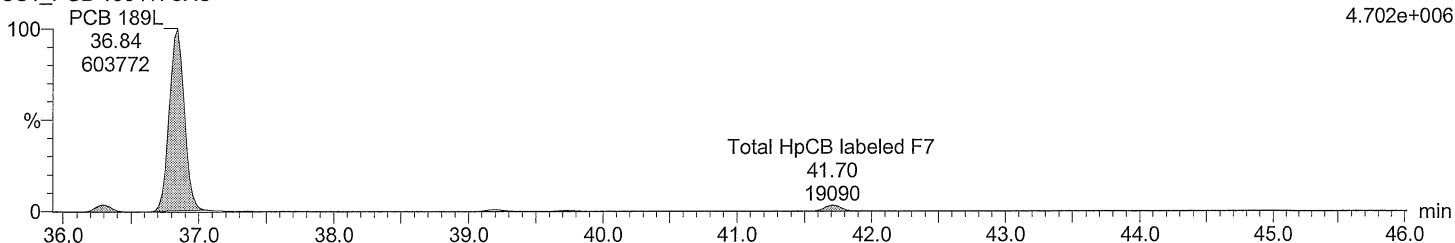
M2160211AS002 Smooth(SG,3x1)

CS1_PCB 150417CXU

F7:SIR of 18 channels,EI+

407.8398

4.702e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

Total OcCB F6

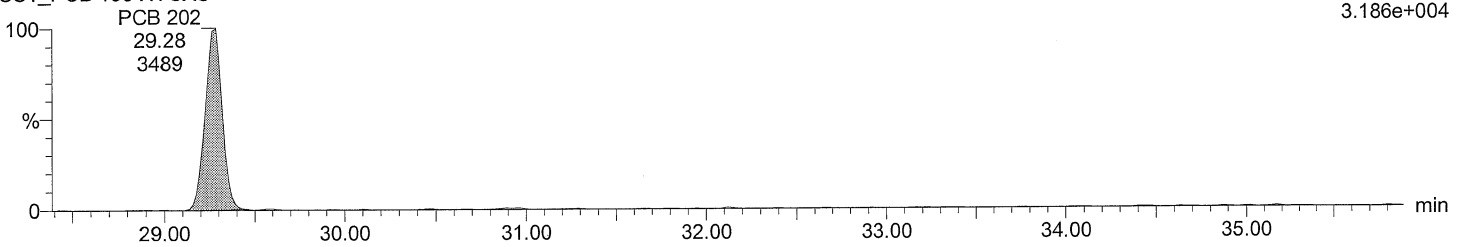
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1_PCB 150417CXU

427.7635

3.186e+004



Total OcCB F6

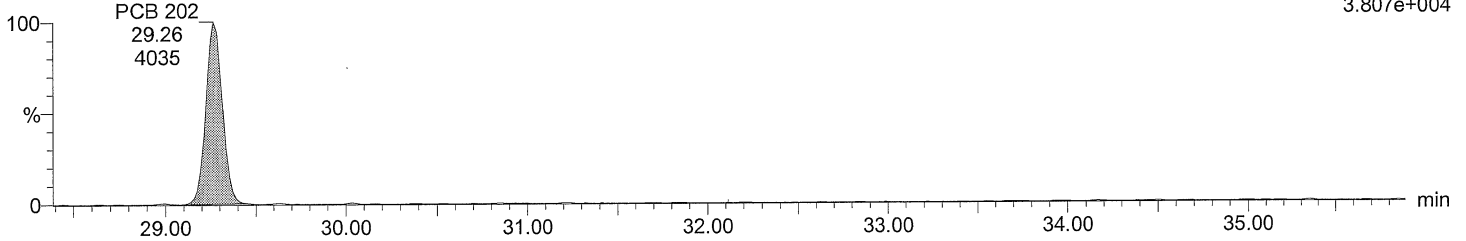
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1_PCB 150417CXU

429.7606

3.807e+004



Total OcCB labeled F6

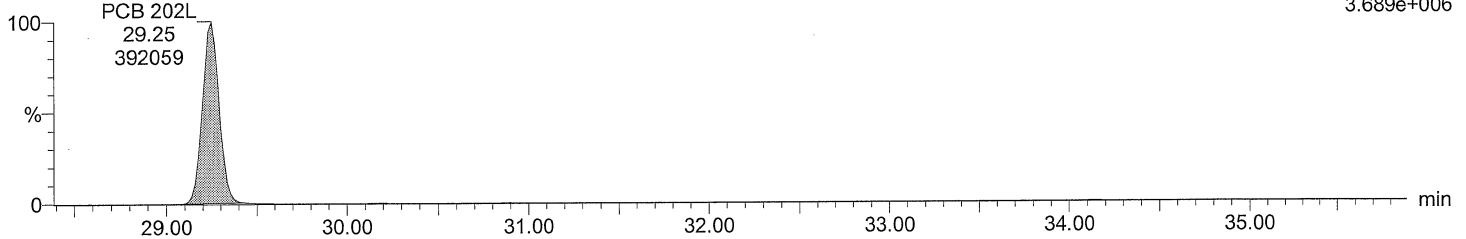
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1_PCB 150417CXU

439.8038

3.689e+006



Total OcCB labeled F6

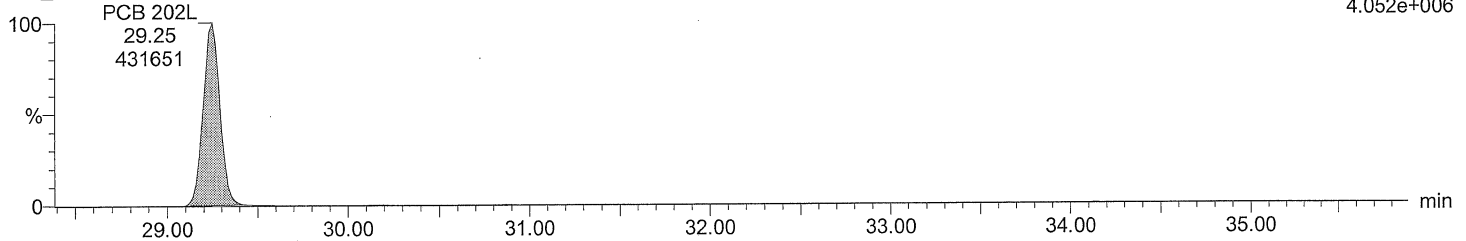
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1_PCB 150417CXU

441.8008

4.052e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
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Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

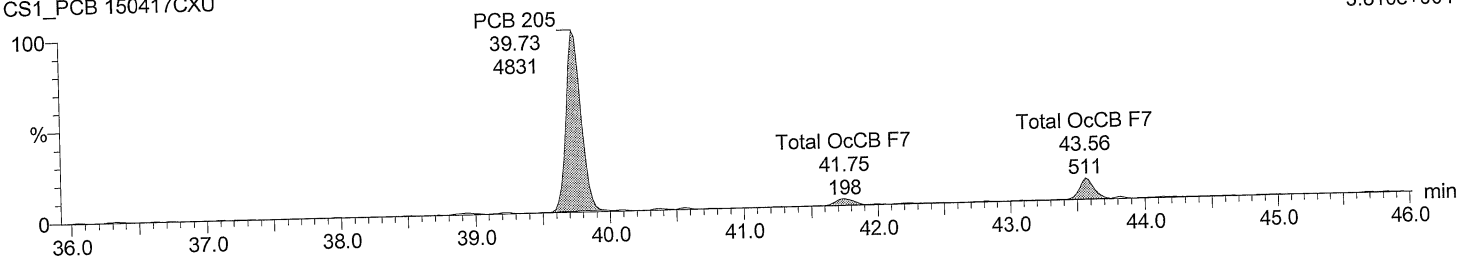
Time: 18:43:05

Instrument: Autospec-UltimaE

Total OcCB F7

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU

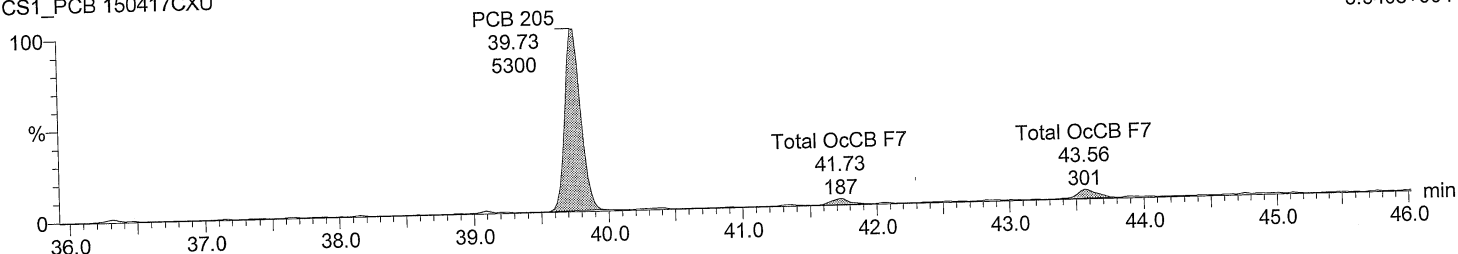
F7:SIR of 18 channels, EI+
 427.7635
 3.810e+004



Total OcCB F7

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU

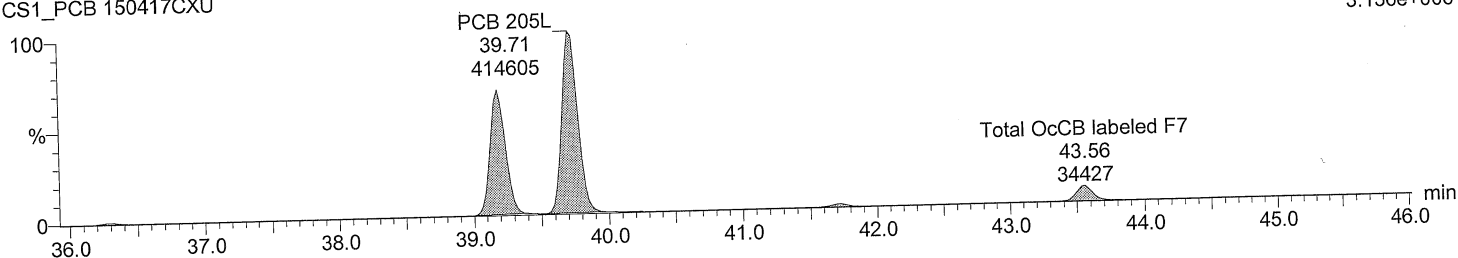
F7:SIR of 18 channels, EI+
 429.7606
 3.940e+004



Total OcCB labeled F7

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU

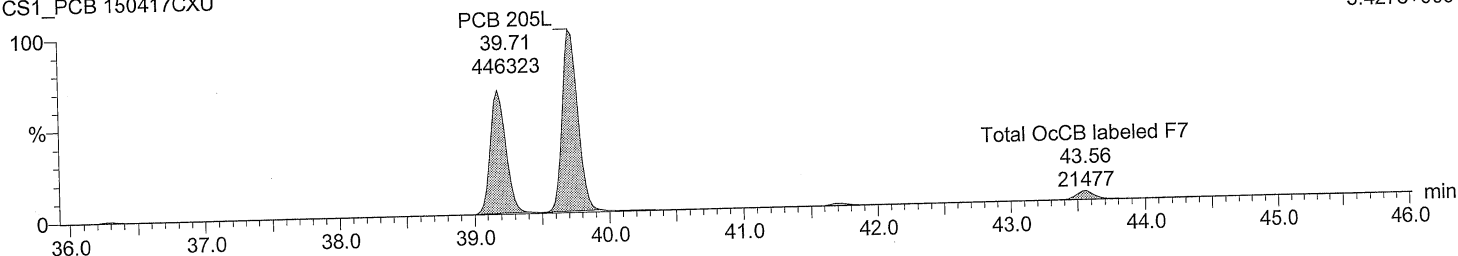
F7:SIR of 18 channels, EI+
 439.8038
 3.136e+006



Total OcCB labeled F7

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU

F7:SIR of 18 channels, EI+
 441.8008
 3.427e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

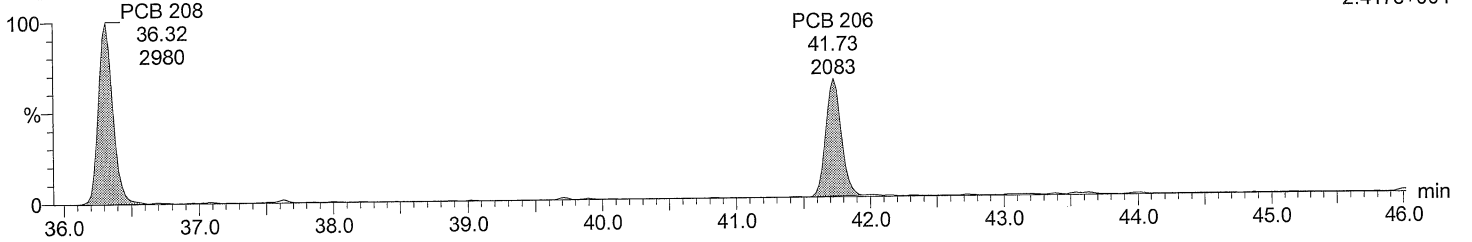
Time: 18:43:05

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

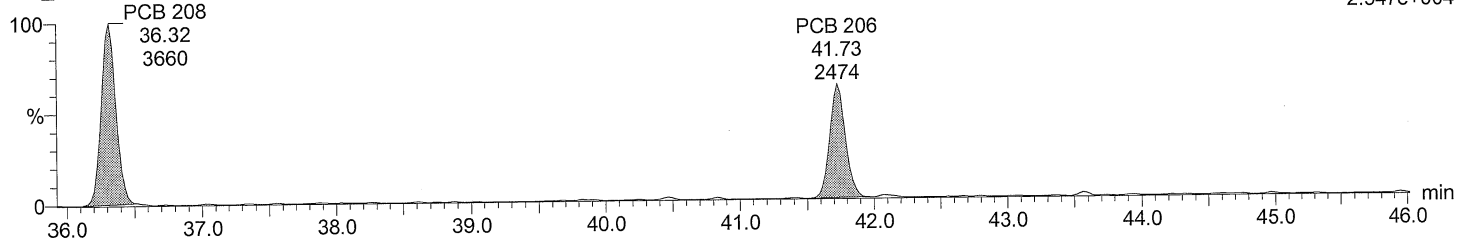
F7:SIR of 18 channels,EI+
461.7246
2.417e+004



Total NoCB F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

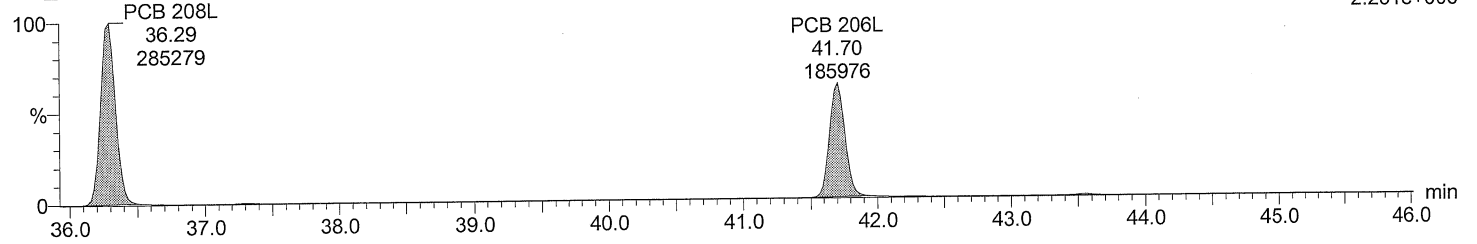
F7:SIR of 18 channels,EI+
463.7216
2.947e+004



Total NoCB labeled F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

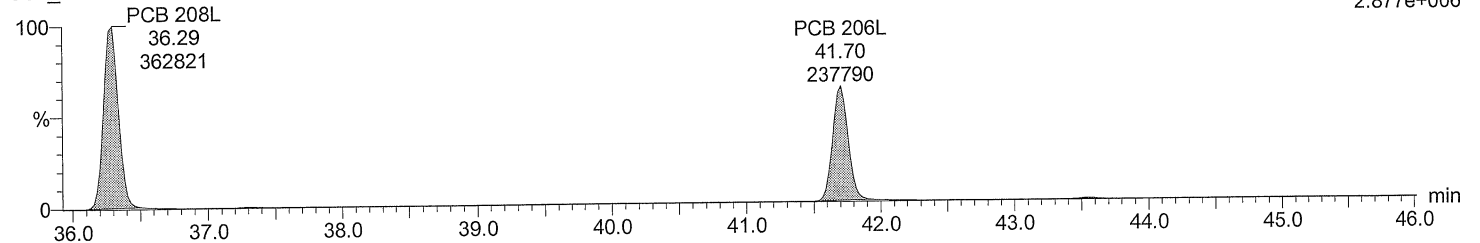
F7:SIR of 18 channels,EI+
473.7648
2.251e+006



Total NoCB labeled F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F7:SIR of 18 channels,EI+
475.7619
2.877e+006



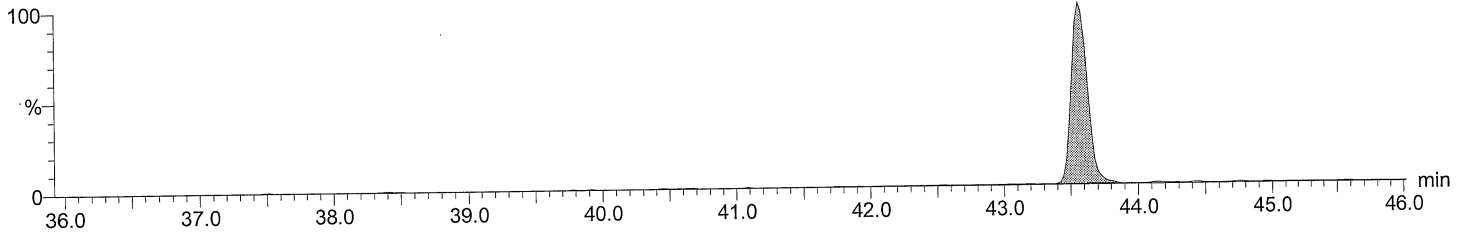
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU
Vial: 2
Date: 11-FEB-2016
Time: 18:43:05
Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

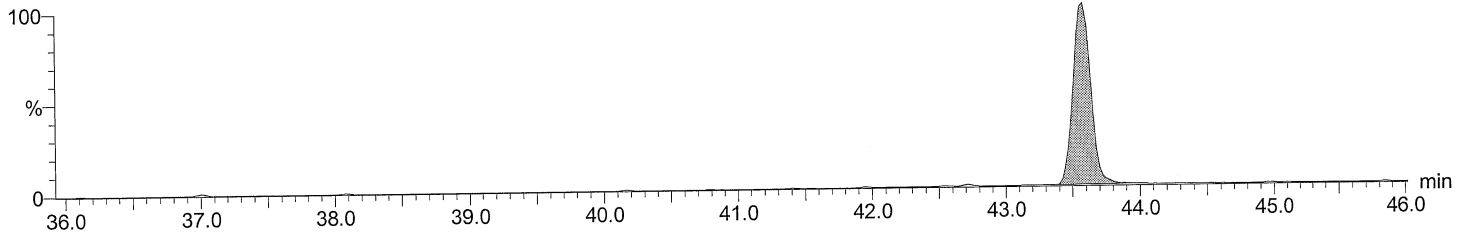
PCB 209
43.56
2505
F7:SIR of 18 channels,EI+
497.6826
1.865e+004



Total DeCB F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

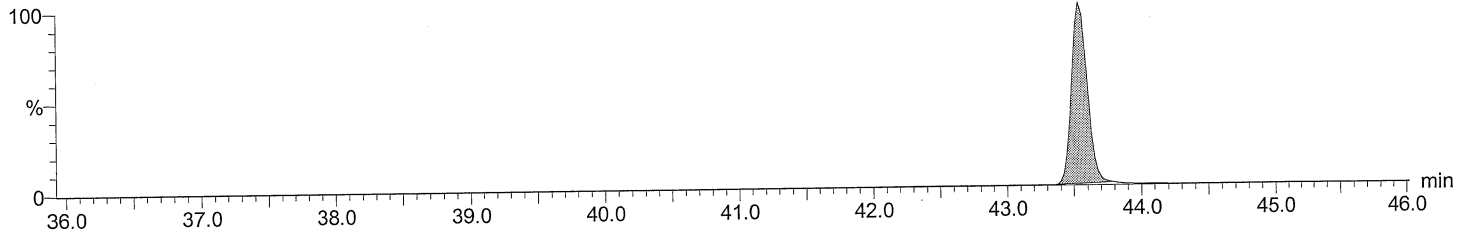
PCB 209
43.58
2100
F7:SIR of 18 channels,EI+
499.6797
1.419e+004



Total DeCB labeled F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

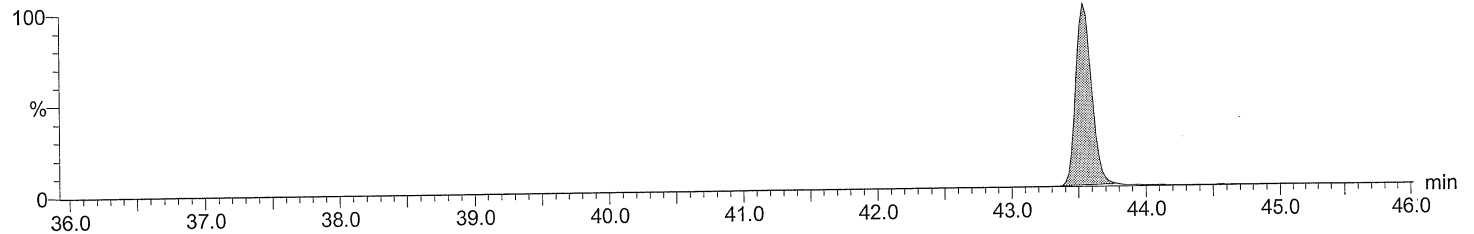
PCB 209L
43.54
220615
F7:SIR of 18 channels,EI+
509.7229
1.683e+006



Total DeCB labeled F7

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

PCB 209L
43.54
184915
F7:SIR of 18 channels,EI+
511.7199
1.391e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

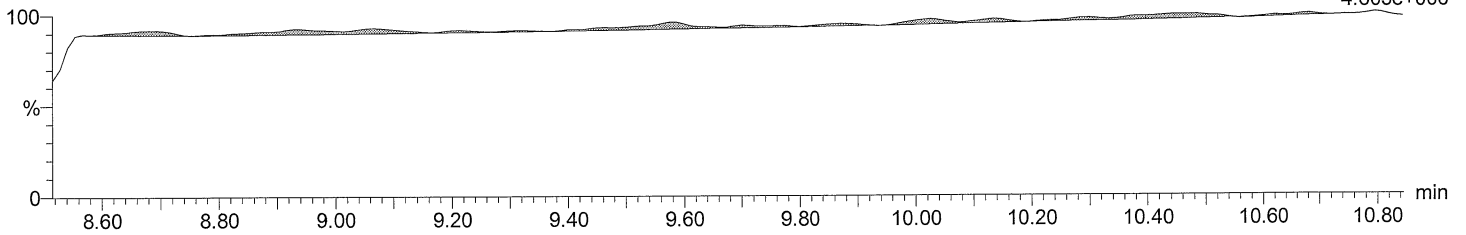
Time: 18:43:05

Instrument: Autospec-UltimaE

lockmass F1

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

F1:SIR of 10 channels,EI+
218.9856
4.605e+006

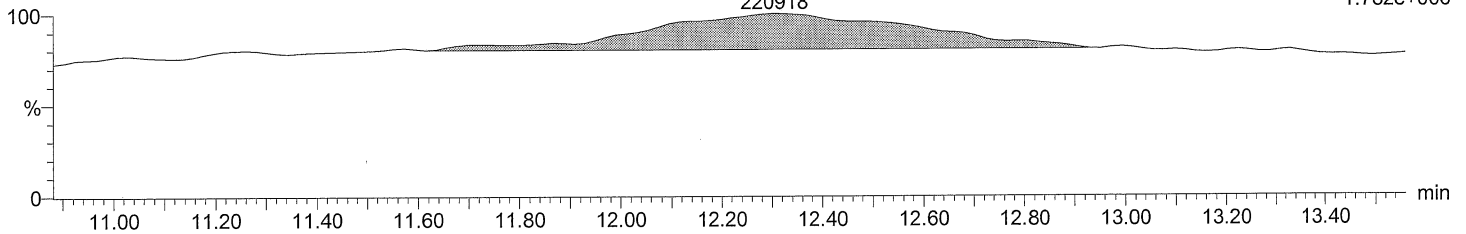


lockmass F2

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

lockmass F2
12.31
220918

F2:SIR of 16 channels,EI+
242.9856
1.782e+006

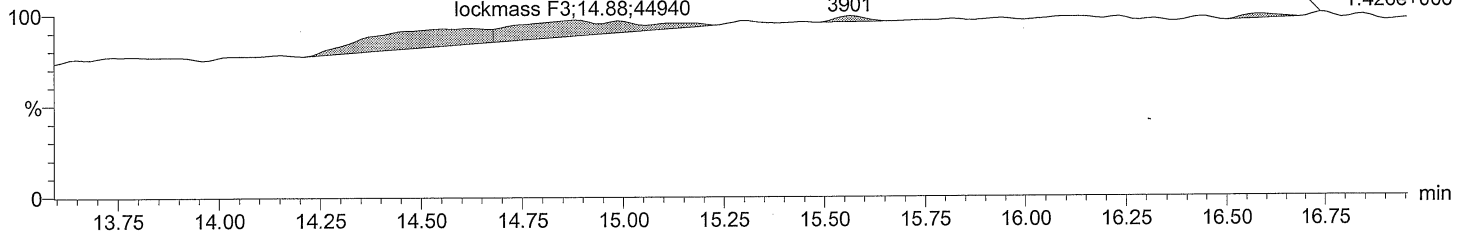


lockmass F3

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

lockmass F3
15.56
3901

F3:SIR of 14 channels,EI+
292.9824
1.426e+006

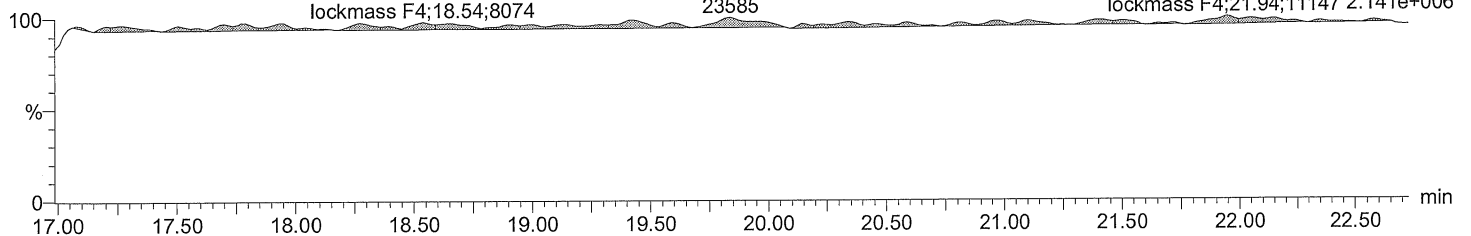


lockmass F4

M2160211AS002 Smooth(SG,3x1)
CS1_PCB 150417CXU

lockmass F4
19.84
23585

F4:SIR of 14 channels,EI+
330.9792
2.141e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1_PCB 150417CXU

Vial: 2

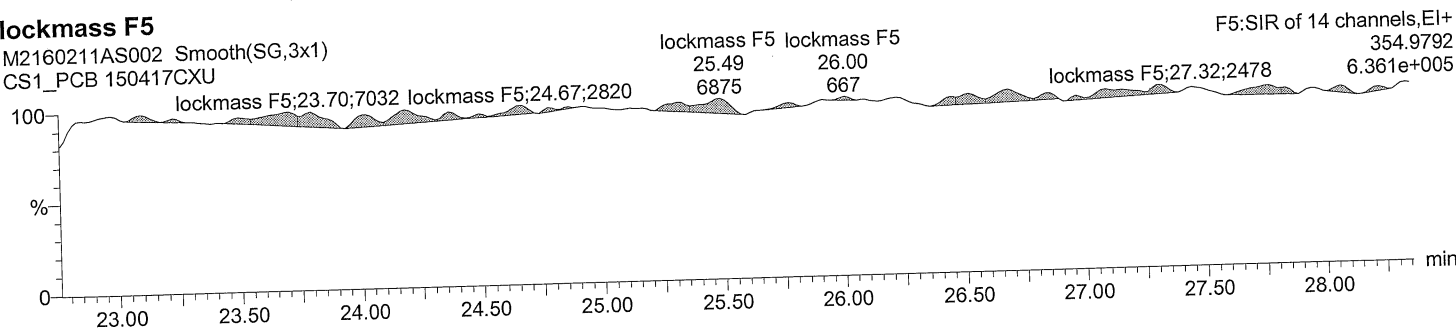
Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

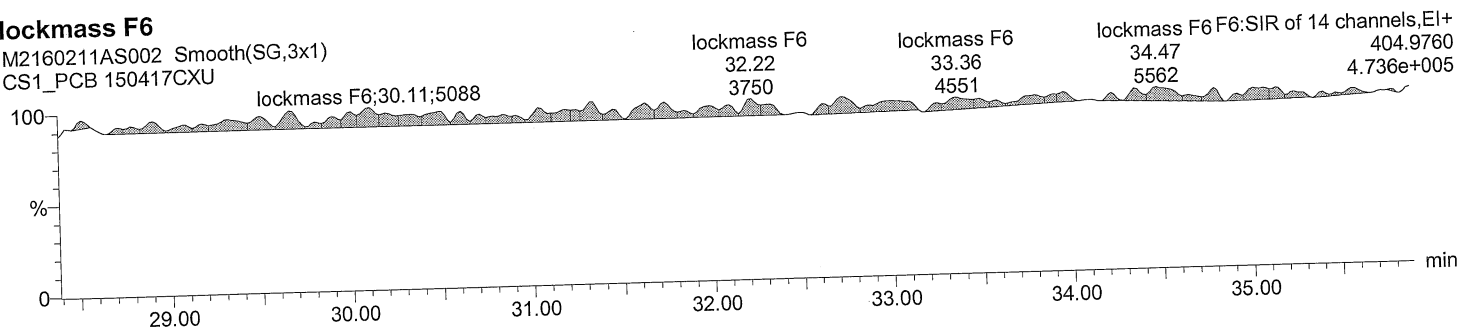
lockmass F5

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU



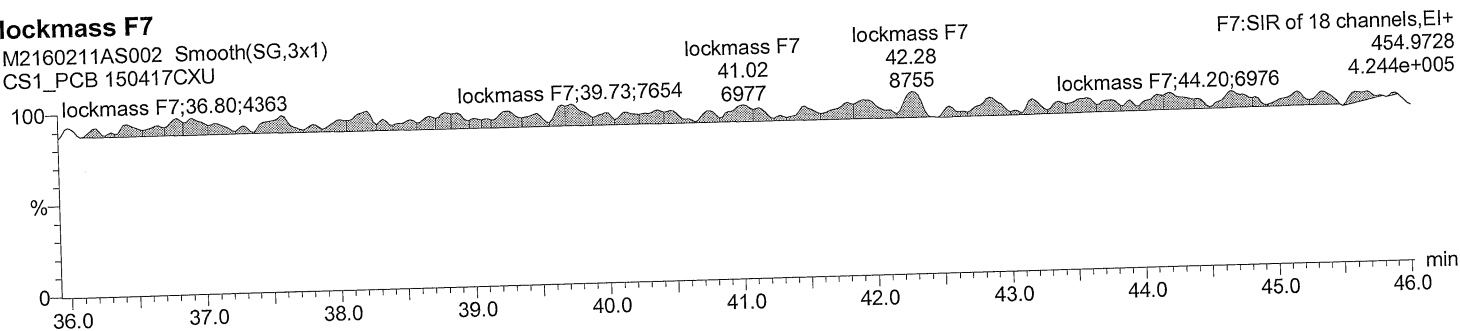
lockmass F6

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU



lockmass F7

M2160211AS002 Smooth(SG,3x1)
 CS1_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

Description: CS2_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ui	%Dev	%Rec	IS#	RRF
1 PCB 1	8.99	1.001	55440	16814	3.30	YES	bb	4.770	-4.6	95	29	1.032
2 PCB 3	10.17	1.000	56173	16871	3.33	YES	bd	4.821	-3.6	96	30	1.040
3 PCB 4	10.29	1.000	24857	15945	1.56	YES	bb	4.639	-7.2	93	31	0.885
4 PCB 15	12.94	1.002	42885	28793	1.49	YES	bb	4.738	-5.2	95	32	0.825
5 PCB 19	11.67	1.000	20619	20403	1.01	YES	bb	4.580	-8.4	92	33	0.823
6 PCB 37	16.69	1.001	36944	36095	1.02	YES	bb	4.726	-5.5	95	34	0.856
7 PCB 54	13.07	1.002	21910	28289	0.77	YES	bb	4.739	-5.2	95	35	0.863
8 PCB 81	21.43	1.001	30510	40256	0.76	YES	bb	4.699	-6.0	94	36	0.965
9 PCB 77	21.88	1.001	30963	40139	0.77	YES	bd	4.654	-6.9	93	37	1.003
10 PCB 104	15.93	1.001	27793	17704	1.57	YES	bb	4.652	-7.0	93	38	1.018
11 PCB 123	23.52	1.002	37896	24096	1.57	YES	bd	4.647	-7.1	93	39	0.831
12 PCB 118	23.78	1.001	40840	26527	1.54	YES	db	4.769	-4.6	95	40	0.936
13 PCB 114	24.27	1.001	38790	24876	1.56	YES	bb	4.722	-5.6	94	41	0.954
14 PCB 105	24.84	1.001	38495	24289	1.59	YES	bb	4.688	-6.2	94	42	0.915
15 PCB 126	27.70	1.001	35890	24056	1.49	YES	bb	4.768	-4.6	95	43	0.931
16 PCB 155	19.62	1.001	24892	19409	1.28	YES	bb	4.528	-9.4	91	44	0.902
17 PCB 167	29.52	1.001	35366	28153	1.26	YES	db	4.681	-6.4	94	45	0.886
18 PCB 156/157	30.71	1.001	70282	53531	1.31	YES	bb	9.381	-6.2	94	46	0.954
19 PCB 169	34.11	1.000	32470	25074	1.29	YES	bd	4.747	-5.1	95	47	0.906
20 PCB 188	24.23	1.002	22569	20773	1.09	YES	bb	4.570	-8.6	91	48	0.925
21 PCB 193/180	32.12	1.001	20110	18906	1.06	YES	bb	4.548	-9.0	91	49	1.036
22 PCB 170	33.44	1.000	19369	18509	1.05	YES	bb	4.628	-7.4	93	50	1.176
23 PCB 189	36.85	1.001	26359	25947	1.02	YES	bb	4.693	-6.1	94	51	0.886
24 PCB 202	29.27	1.001	17026	18609	0.92	YES	bb	4.531	-9.4	91	52	0.895
25 PCB 205	39.74	1.001	20091	22621	0.89	YES	bb	4.655	-6.9	93	53	1.015
26 PCB 208	36.30	1.001	12808	16375	0.78	YES	bb	4.521	-9.6	90	54	0.925
27 PCB 206	41.71	1.001	8278	11115	0.75	YES	bb	4.578	-8.4	92	55	0.940
28 PCB 209	43.57	1.000	10352	8615	1.20	YES	bb	4.612	-7.8	92	56	0.959
29 PCB 1L	8.98	0.803	1071049	329051	3.26	YES	bb	102.744	2.7	103	63	0.846
30 PCB 3L	10.17	0.910	1071250	333436	3.21	YES	bb	99.625	-0.4	100	63	0.849
31 PCB 4L	10.29	0.920	563736	358327	1.57	YES	bb	102.724	2.7	103	63	0.557
32 PCB 15L	12.92	1.155	1069414	668526	1.60	YES	bb	97.793	-2.2	98	63	1.051
33 PCB 19L	11.67	1.043	510021	486577	1.05	YES	bb	104.191	4.2	104	63	0.602
34 PCB 37L	16.67	1.086	878923	827825	1.06	YES	bb	97.630	-2.4	98	64	1.939
35 PCB 54L	13.05	0.850	515777	647571	0.80	YES	bb	101.901	1.9	102	64	1.322
36 PCB 81L	21.42	1.395	652949	813455	0.80	YES	bb	95.885	-4.1	96	64	1.666
37 PCB 77L	21.86	1.424	628593	789750	0.80	YES	bb	96.105	-3.9	96	64	1.612
38 PCB 104L	15.92	0.805	552868	340790	1.62	YES	bb	100.070	0.1	100	65	1.156
39 PCB 123L	23.48	1.188	916091	575176	1.59	YES	bd	99.688	-0.3	100	65	1.930
40 PCB 118L	23.77	1.203	886689	552567	1.61	YES	db	97.729	-2.3	98	65	1.862
41 PCB 114L	24.25	1.227	823156	511517	1.61	YES	bb	97.425	-2.6	97	65	1.727
42 PCB 105L	24.82	1.256	846721	524874	1.61	YES	bb	97.396	-2.6	97	65	1.775
43 PCB 126L	27.69	1.401	789112	498162	1.58	YES	bb	95.987	-4.0	96	65	1.666
44 PCB 155L	19.60	0.738	549723	432043	1.27	YES	bb	97.189	-2.8	97	66	1.364
45 PCB 167L	29.51	1.111	802566	632012	1.27	YES	db	94.471	-5.5	94	66	1.993
46 PCB 156L/157L	30.67	1.155	1455123	1140171	1.28	YES	bb	187.719	-6.1	94	66	1.803
47 PCB 169L	34.09	1.283	709671	560306	1.27	YES	bb	93.546	-6.5	94	66	1.764
48 PCB 188L	24.19	0.911	482136	455093	1.06	YES	bb	97.954	-2.0	98	66	1.302

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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ID:

Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

Description: CS2_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
49	PCB 180L	32.10	0.820	389771	363473	1.07	YES	bb	97.510	-2.5	98	67	1.315
50	PCB 170L	33.43	0.853	336814	307150	1.10	YES	bb	95.261	-4.7	95	67	1.124
51	PCB 189L	36.83	0.940	606046	574876	1.05	YES	bb	95.565	-4.4	96	67	2.062
52	PCB 202L	29.24	0.747	377629	418732	0.90	YES	bb	97.944	-2.1	98	67	1.390
53	PCB 205L	39.72	1.014	404007	437304	0.92	YES	bb	95.913	-4.1	96	67	1.469
54	PCB 208L	36.28	0.926	276933	353719	0.78	YES	bb	96.625	-3.4	97	67	1.101
55	PCB 206L	41.69	1.064	180294	232312	0.78	YES	bb	94.834	-5.2	95	67	0.720
56	PCB 209L	43.55	1.112	217502	177976	1.22	YES	bb	95.318	-4.7	95	67	0.690
57	PCB 28L	14.40	0.938	1017116	978391	1.04	YES	db	111.195	11.2	111	64	2.268
58	PCB 111L	21.83	1.105	669285	418992	1.60	YES	bb	104.860	4.9	105	65	1.408
59	PCB 178L	26.99	1.016	285921	265838	1.08	YES	bb	104.597	4.6	105	66	0.767
60	PCB 31L	14.24	0.927	882410	827480	1.07	YES	bd	100.450	0.4	100	64	1.943
61	PCB 95L	17.73	0.897	458483	283965	1.62	YES	bb	101.543	1.5	102	65	0.961
62	PCB 153L	25.41	0.956	496257	382157	1.30	YES	bb	99.620	-0.4	100	66	1.220
63	PCB 9L	11.19	0.000	1020450	633739	1.61	YES	bb	88.196	-11.8	88	0	16541...
64	PCB 52L	15.36	0.000	387643	492369	0.79	YES	bb	89.289	-10.7	89	0	8800....
65	PCB 101L	19.76	0.000	477604	295151	1.62	YES	bb	87.002	-13.0	87	0	7727....
66	PCB 138L	26.56	0.000	406950	312788	1.30	YES	bb	89.158	-10.8	89	0	7197....
67	PCB 194L	39.17	0.000	275420	297399	0.93	YES	bb	87.706	-12.3	88	0	5728....
68	Total MoCB F1								9.591			29	
69	Total MoCB labeled ...								202.370			63	
70	Total DiCB F1								4.639			31	
71	Total DiCB labeled F1								102.724			63	
72	Total DiCB F2								4.738			32	
73	Total DiCB labeled F2								185.989			63	
74	Total TriCB F2								4.580			33	
75	Total TriCB labeled F2								104.191			63	
76	Total TriCB F3								4.726			34	
77	Total TriCB labeled F3								309.275			64	
78	Total TeCB F2								4.739			35	
79	Total TeCB labeled F2								101.901			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								89.289			64	
82	Total TeCB F4								9.353			36	
83	Total TeCB labeled F4								191.990			64	
84	Total PeCB F3								4.652			38	
85	Total PeCB labeled F3								100.070			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								293.405			65	
88	Total PeCB F5								23.594			39	
89	Total PeCB labeled F5								488.225			65	
90	Total HxCB F4								4.528			44	
91	Total HxCB labeled F4								97.189			66	
92	Total HxCB F5											45	
93	Total HxCB labeled F5								188.778			66	
94	Total HxCB F6								18.810			45	
95	Total HxCB labeled F6								375.736			66	
96	Total HpCB F5								4.570			48	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

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ID:

Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

Description: CS2_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
97	Total HpCB labeled ...								202.551			67	
98	Total HpCB F6								9.176			49	
99	Total HpCB labeled ...								192.771			67	
100	Total HpCB F7								4.693			51	
101	Total HpCB labeled ...								95.565			67	
102	Total OcCB F6								4.531			52	
103	Total OcCB labeled ...								97.944			67	
104	Total OcCB F7								4.655			53	
105	Total OcCB labeled ...								183.619			67	
106	Total NoCB F7								9.100			54	
107	Total NoCB labeled ...								191.459			67	
108	Total DeCB F7								4.612			56	
109	Total DeCB labeled ...								95.318			67	
110	lockmass F1											0	
111	lockmass F2											0	
112	lockmass F3											0	
113	lockmass F4											0	
114	lockmass F5											0	
115	lockmass F6											0	
116	lockmass F7											0	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

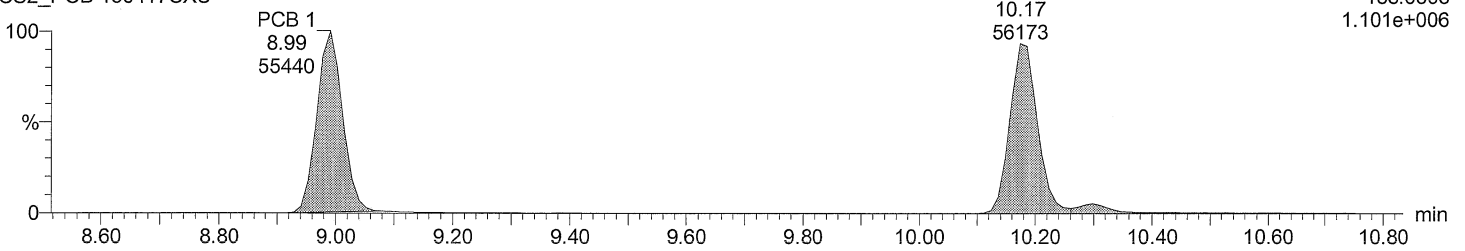
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

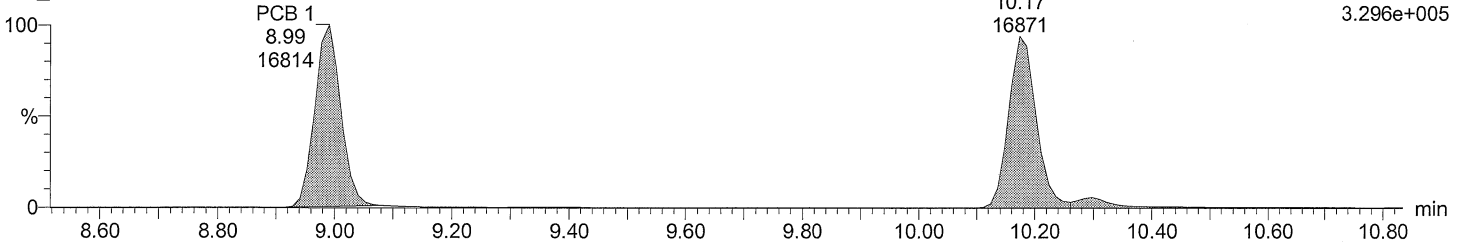
F1:SIR of 10 channels,EI+
188.0393
1.101e+006



Total MoCB F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

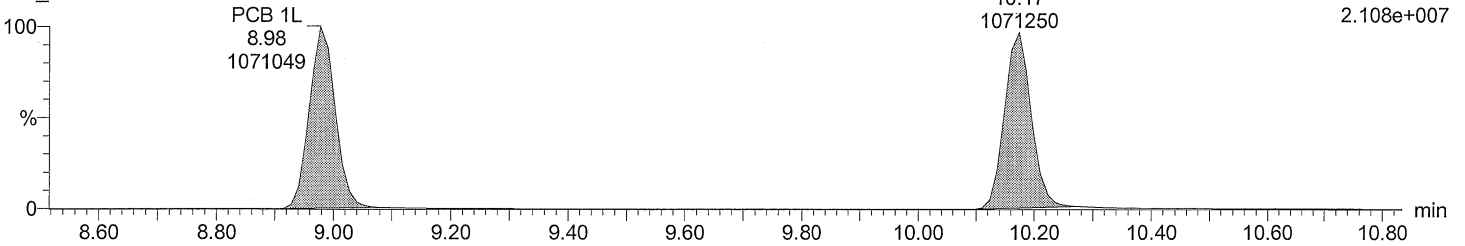
F1:SIR of 10 channels,EI+
190.0363
3.296e+005



Total MoCB labeled F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

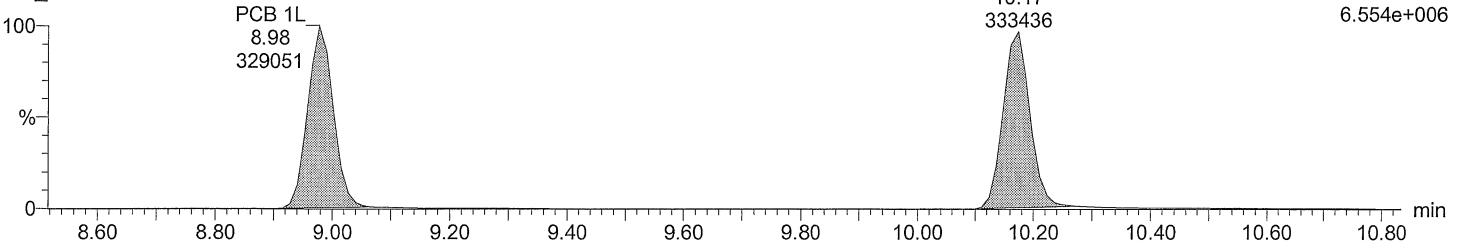
F1:SIR of 10 channels,EI+
200.0795
2.108e+007



Total MoCB labeled F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F1:SIR of 10 channels,EI+
202.076
6.554e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

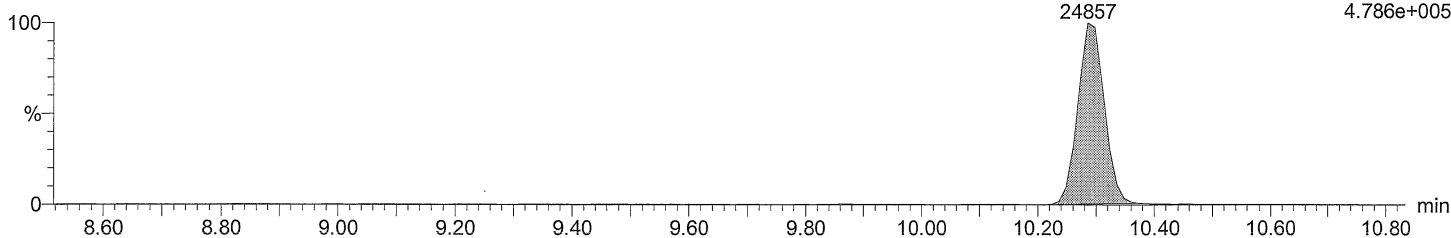
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

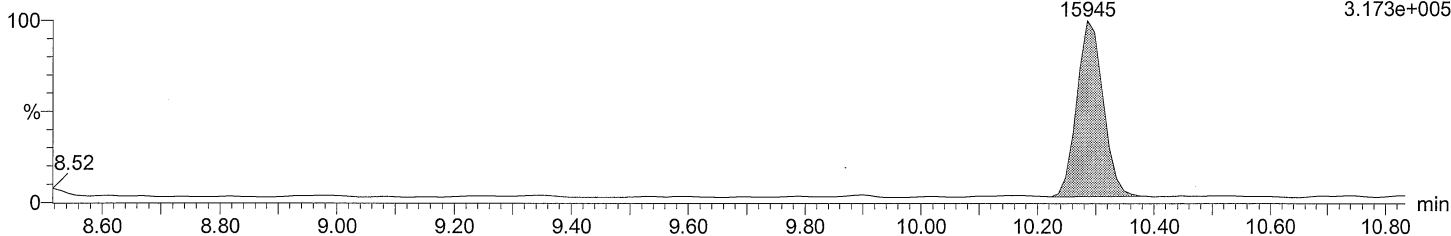
PCB 4
10.29
24857
F1:SIR of 10 channels,EI+
222.0003
4.786e+005



Total DiCB F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

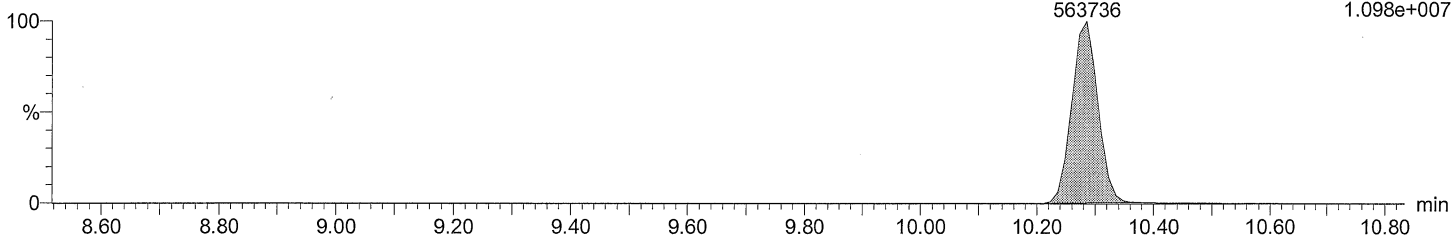
PCB 4
10.29
15945
F1:SIR of 10 channels,EI+
223.9974
3.173e+005



Total DiCB labeled F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

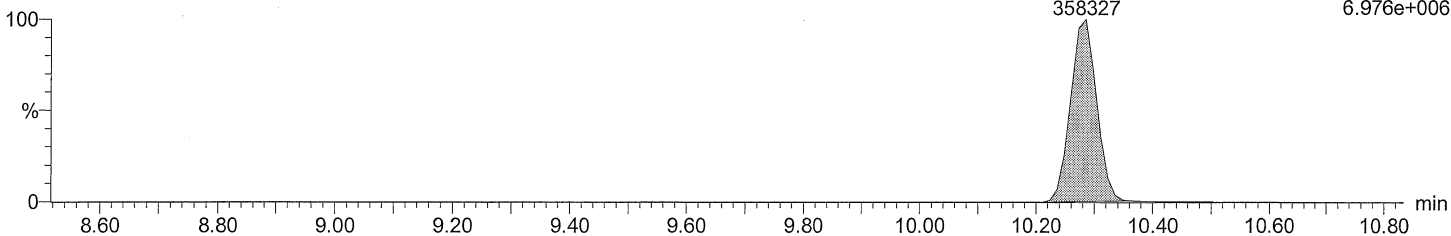
PCB 4L
10.29
563736
F1:SIR of 10 channels,EI+
234.0406
1.098e+007



Total DiCB labeled F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 4L
10.29
358327
F1:SIR of 10 channels,EI+
236.0376
6.976e+006



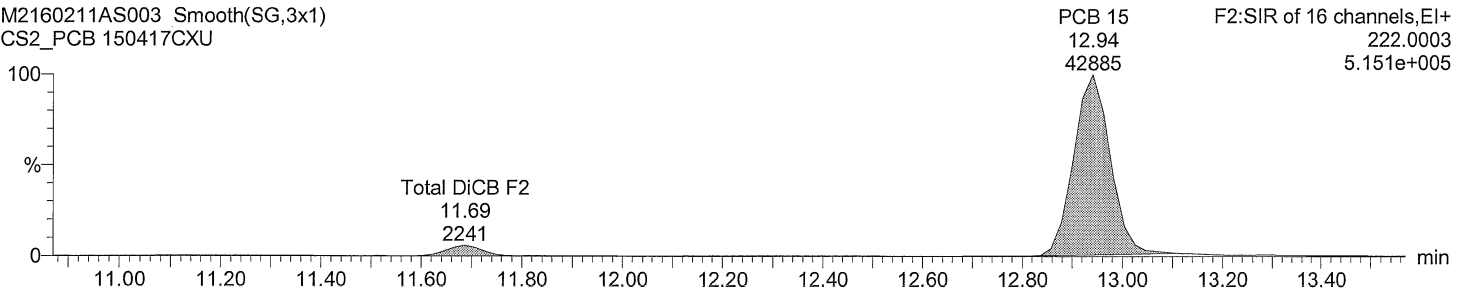
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

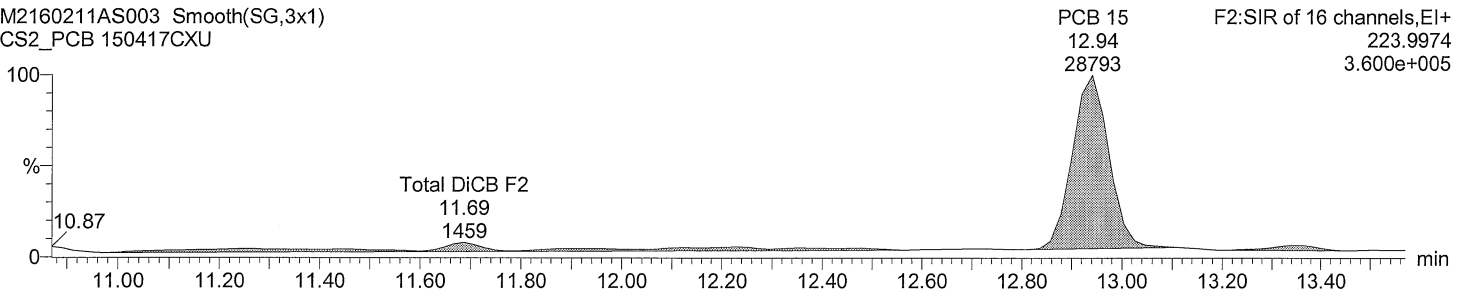
Total DiCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



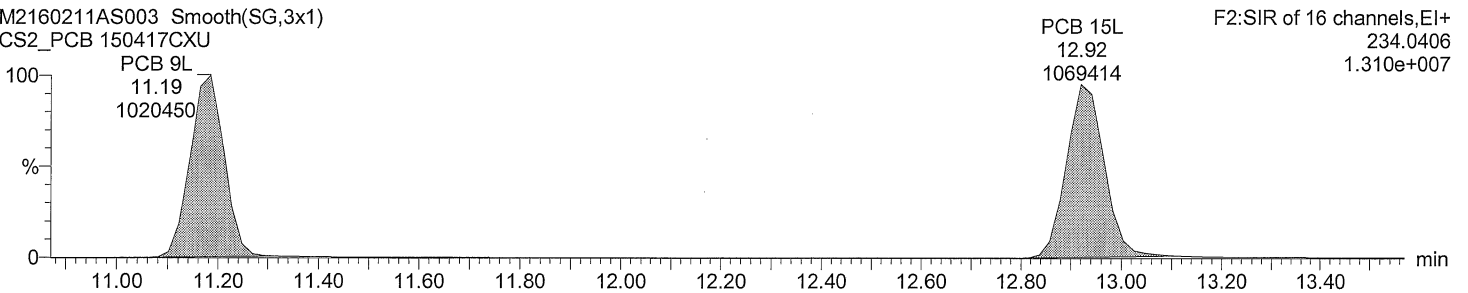
Total DiCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



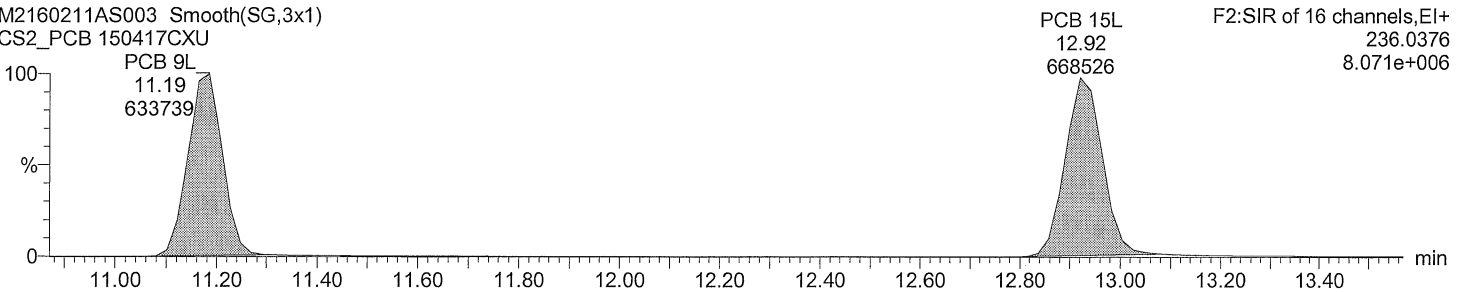
Total DiCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



Total DiCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

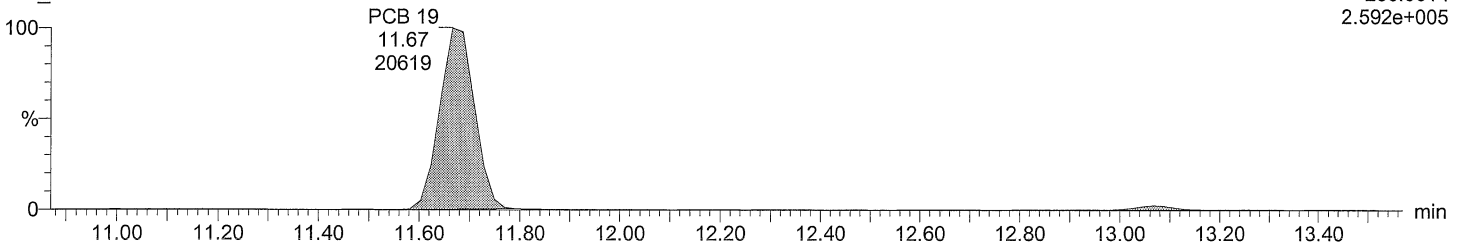
Time: 19:33:17

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

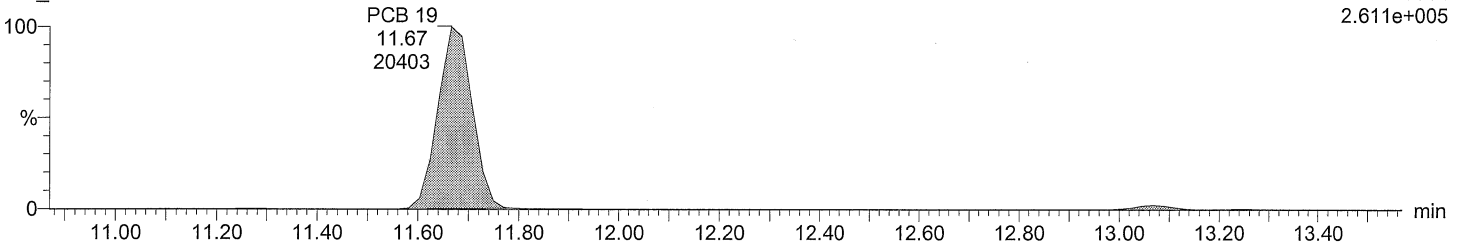
F2:SIR of 16 channels,EI+
255.9614
2.592e+005



Total TriCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

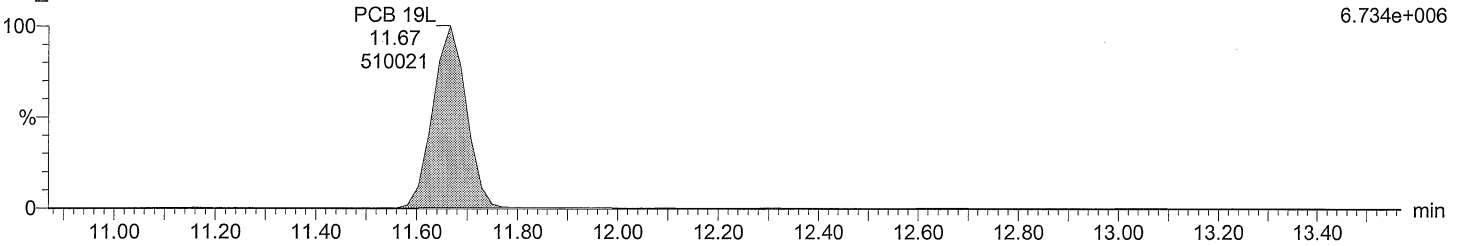
F2:SIR of 16 channels,EI+
257.9584
2.611e+005



Total TriCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

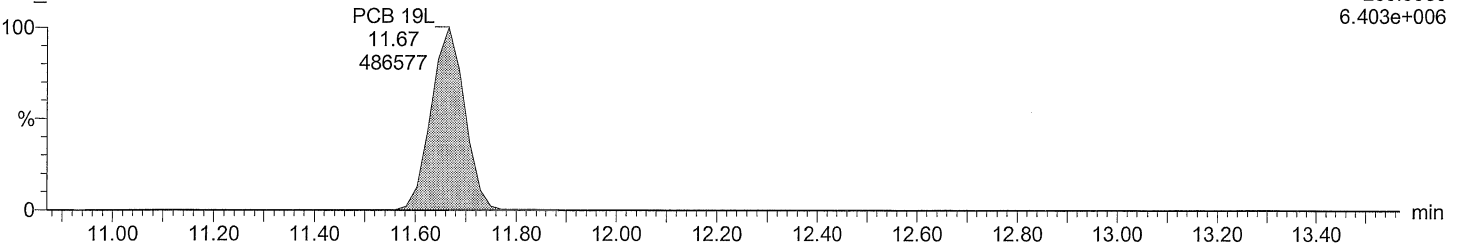
F2:SIR of 16 channels,EI+
268.0016
6.734e+006



Total TriCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F2:SIR of 16 channels,EI+
269.9986
6.403e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

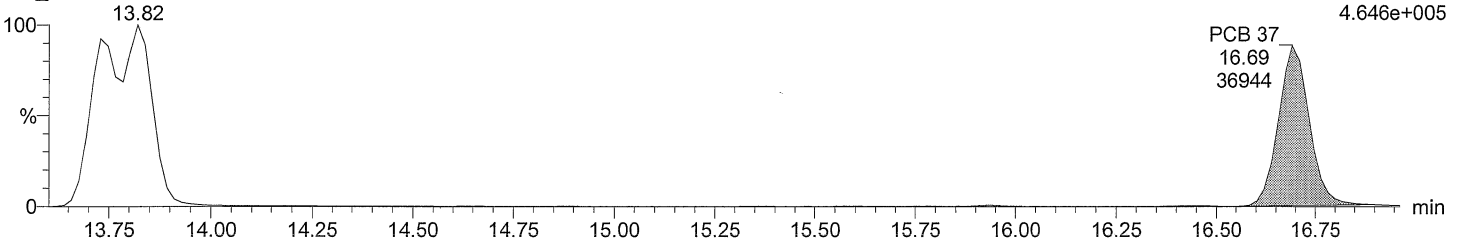
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

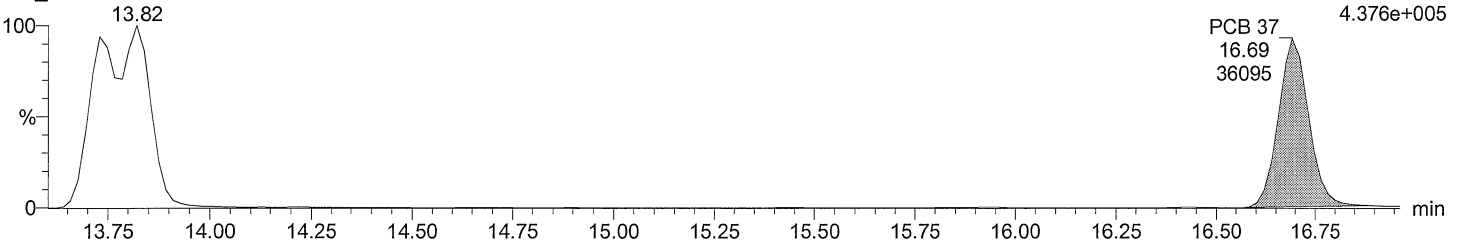
F3:SIR of 14 channels,EI+
255.9614
4.646e+005



Total TriCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

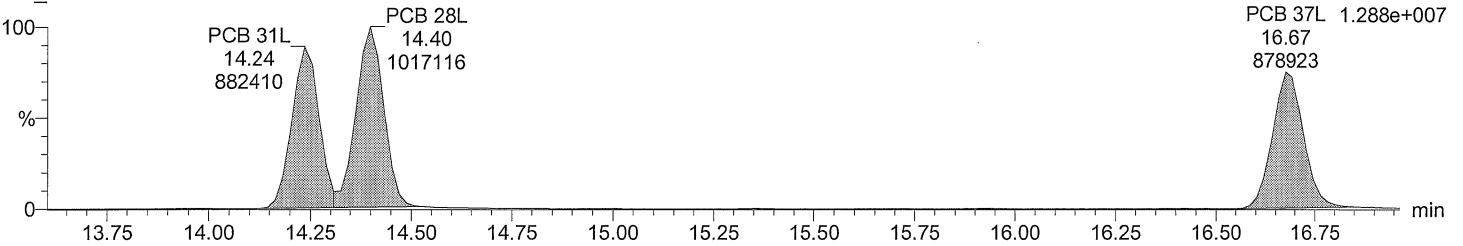
F3:SIR of 14 channels,EI+
257.9584
4.376e+005



Total TriCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

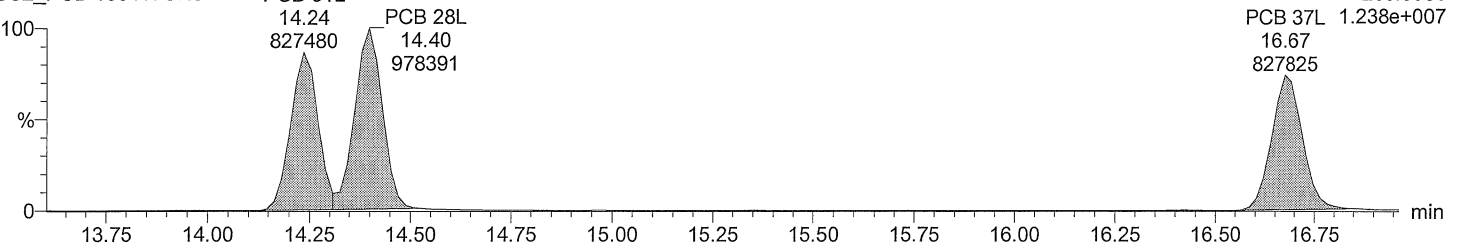
F3:SIR of 14 channels,EI+
268.0016
1.288e+007



Total TriCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F3:SIR of 14 channels,EI+
269.9986
1.238e+007



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

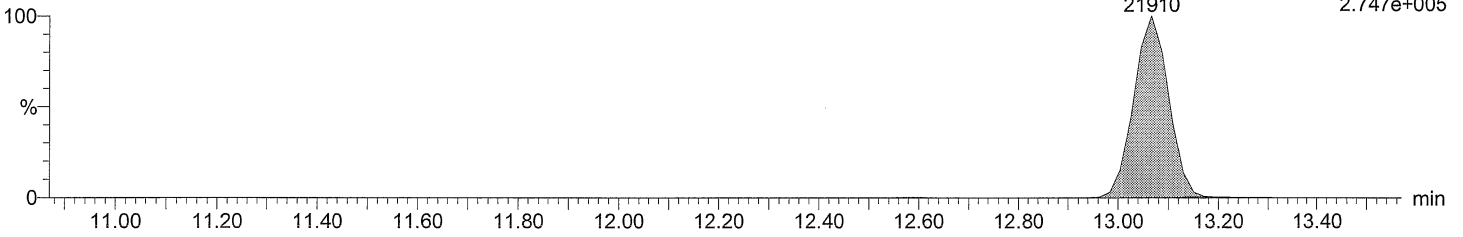
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

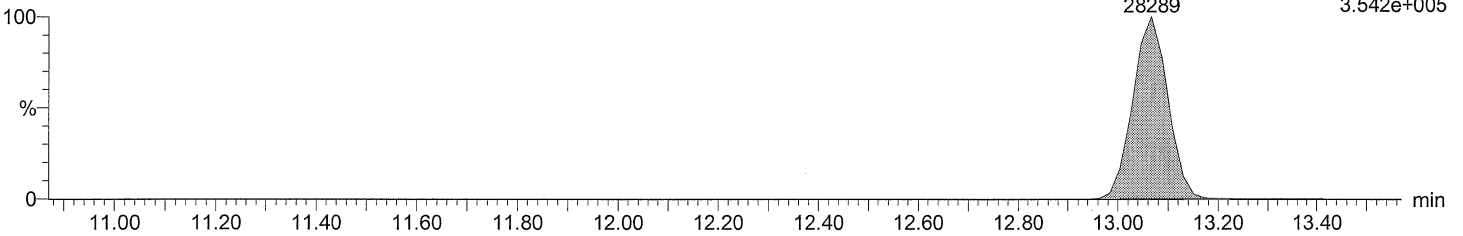
PCB 54 F2:SIR of 16 channels,EI+
13.07 289.9224
21910 2.747e+005



Total TeCB F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

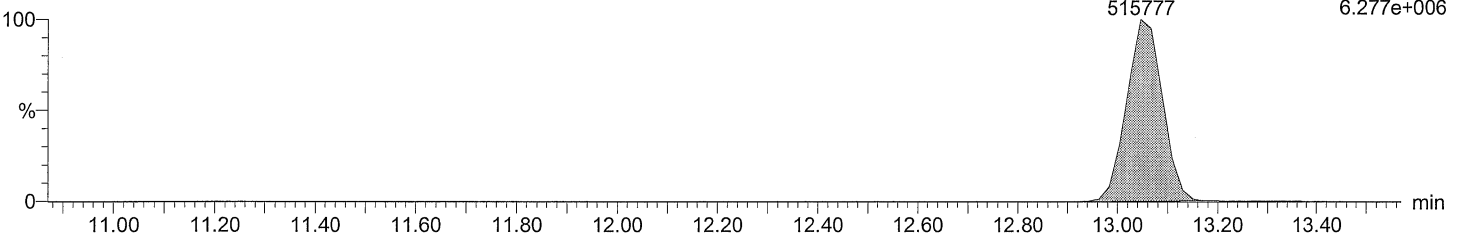
PCB 54 F2:SIR of 16 channels,EI+
13.07 291.9194
28289 3.542e+005



Total TeCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

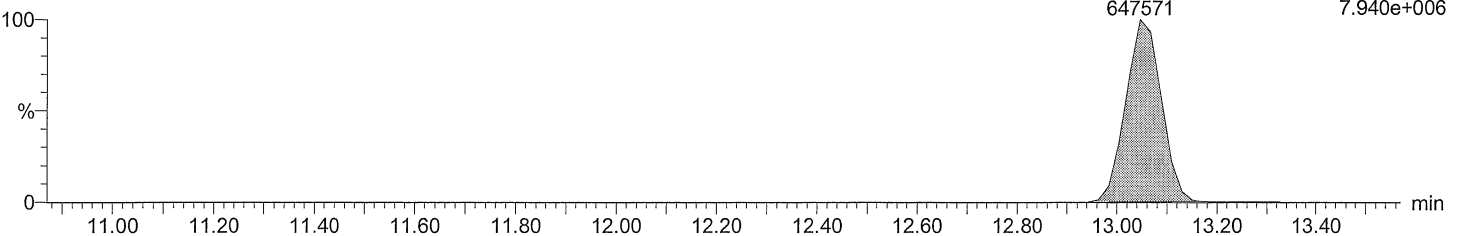
PCB 54L F2:SIR of 16 channels,EI+
13.05 301.9626
515777 6.277e+006



Total TeCB labeled F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 54L F2:SIR of 16 channels,EI+
13.05 303.9597
647571 7.940e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

Time: 19:33:17

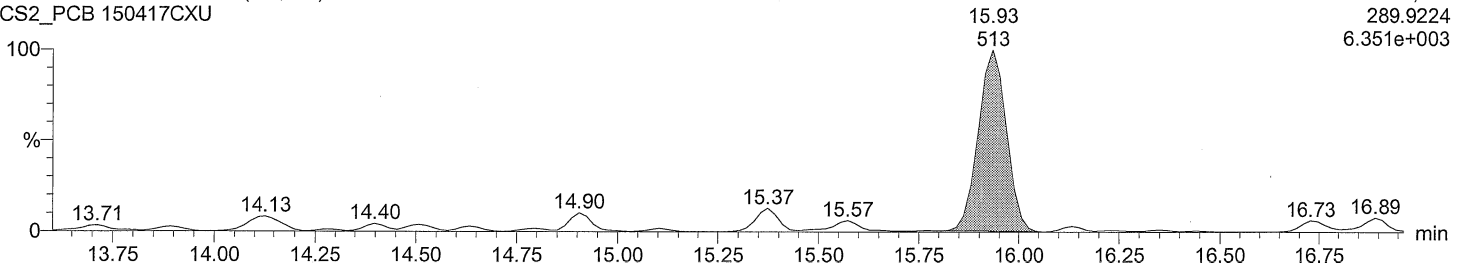
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

Total TeCB F3

F3:SIR of 14 channels,EI+
289.9224
6.351e+003

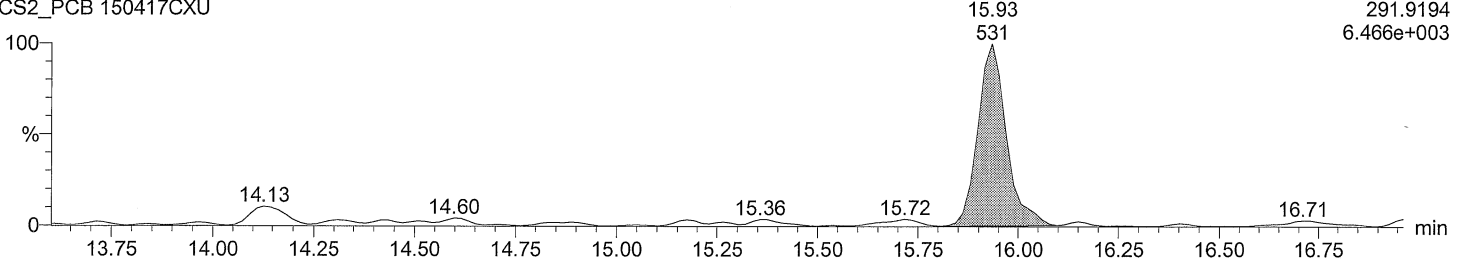


Total TeCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

Total TeCB F3

F3:SIR of 14 channels,EI+
291.9194
6.466e+003

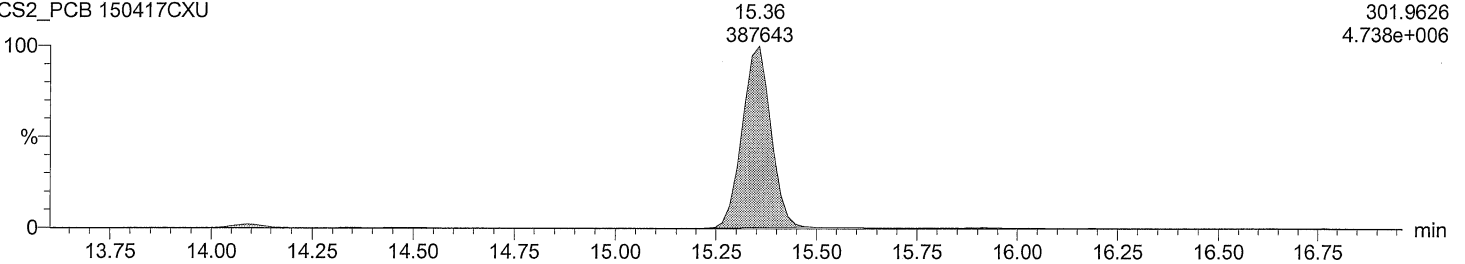


Total TeCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 52L

F3:SIR of 14 channels,EI+
301.9626
4.738e+006

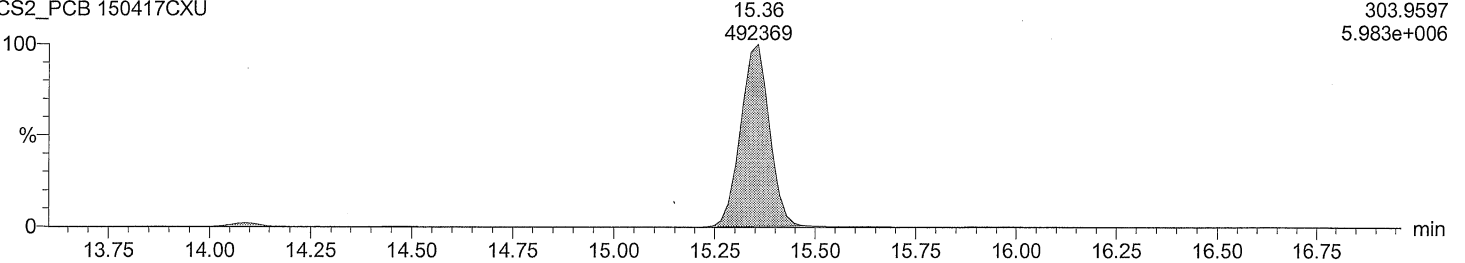


Total TeCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 52L

F3:SIR of 14 channels,EI+
303.9597
5.983e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

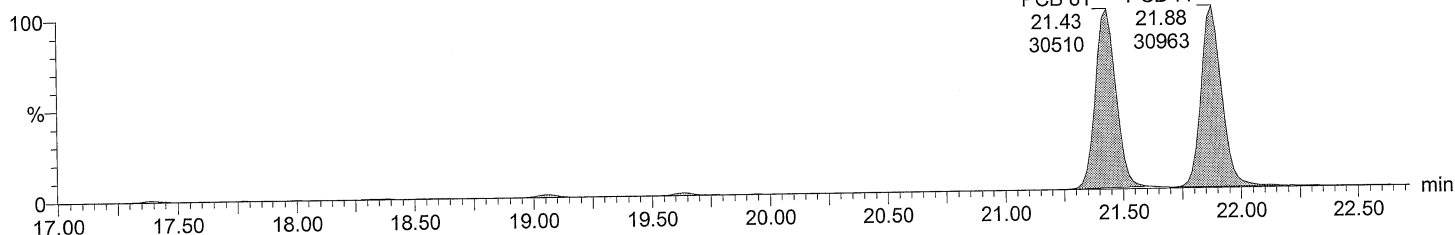
Time: 19:33:17

Instrument: Autospec-UltimaE

Total TeCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

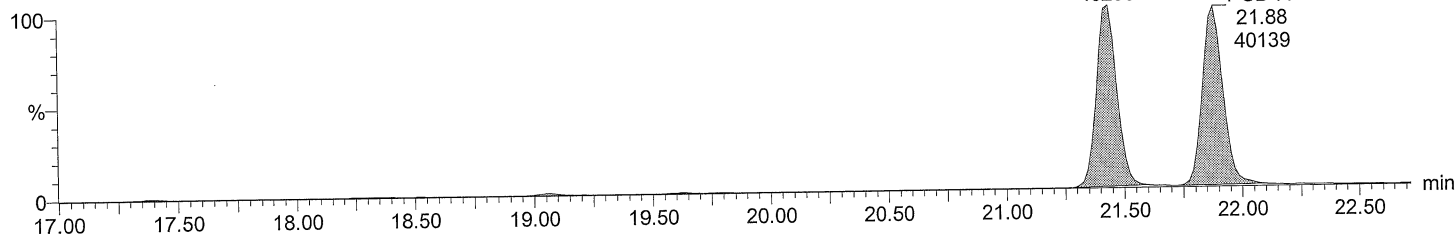
F4:SIR of 14 channels,EI+
289.9224
3.104e+005



Total TeCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

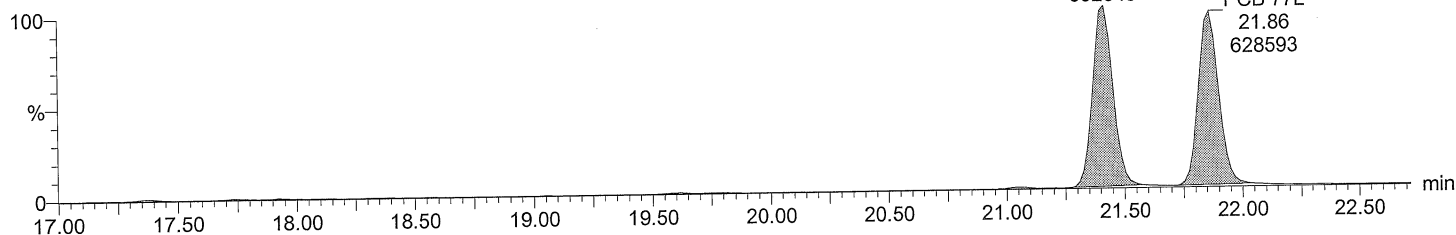
F4:SIR of 14 channels,EI+
291.9194
4.099e+005



Total TeCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

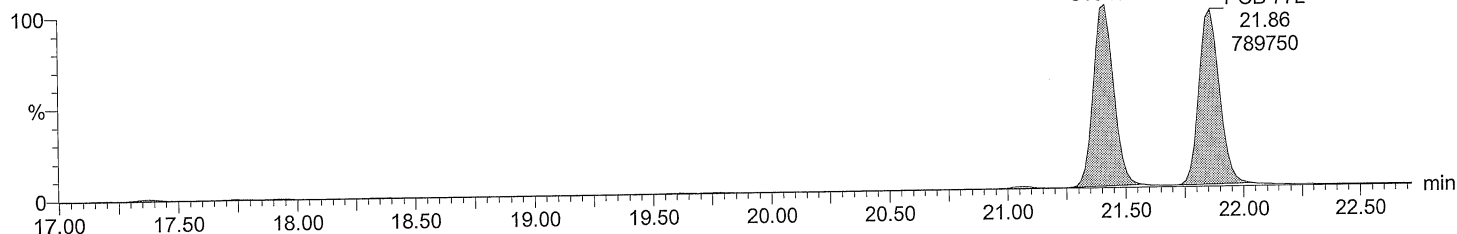
F4:SIR of 14 channels,EI+
301.9626
6.669e+006



Total TeCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F4:SIR of 14 channels,EI+
303.9597
8.263e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

Time: 19:33:17

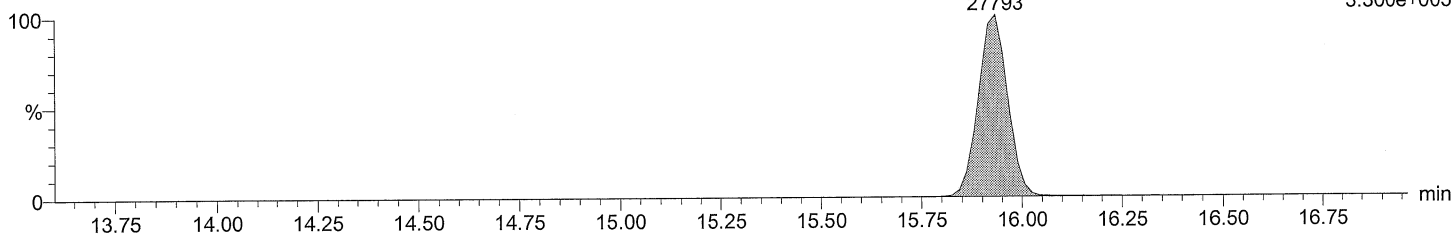
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 104
15.93
27793

F3:SIR of 14 channels,EI+
325.8805
3.300e+005

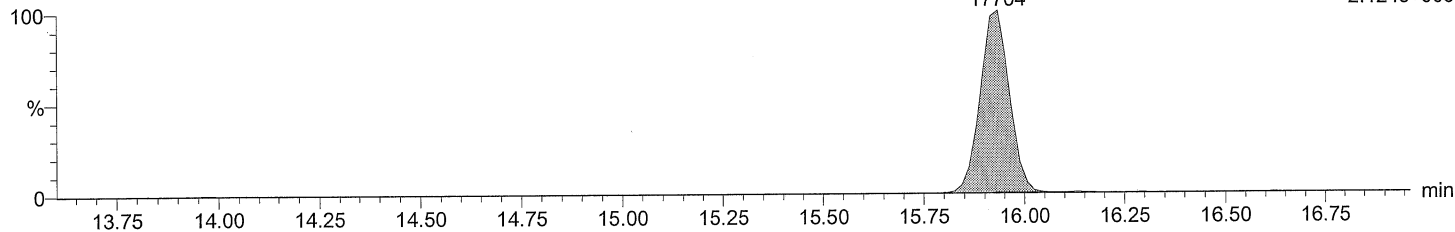


Total PeCB F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 104
15.93
17704

F3:SIR of 14 channels,EI+
327.8775
2.124e+005

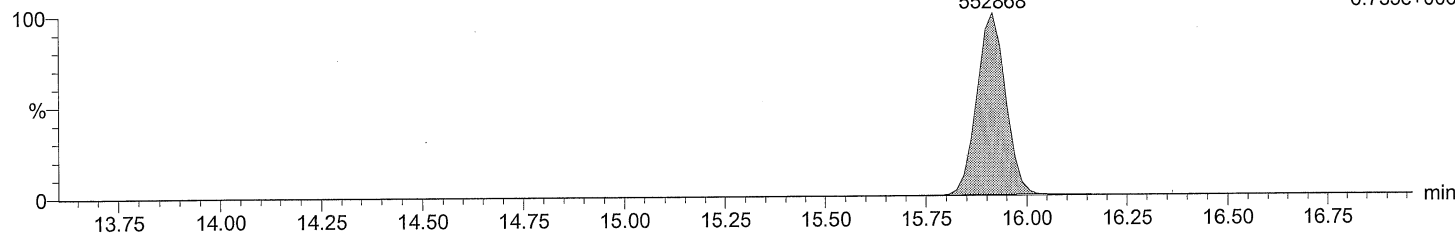


Total PeCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 104L
15.92
552868

F3:SIR of 14 channels,EI+
337.9207
6.735e+006

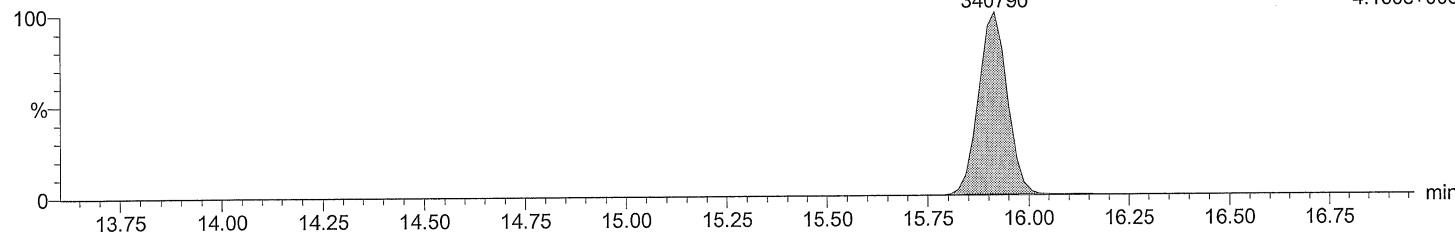


Total PeCB labeled F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 104L
15.92
340790

F3:SIR of 14 channels,EI+
339.9178
4.150e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

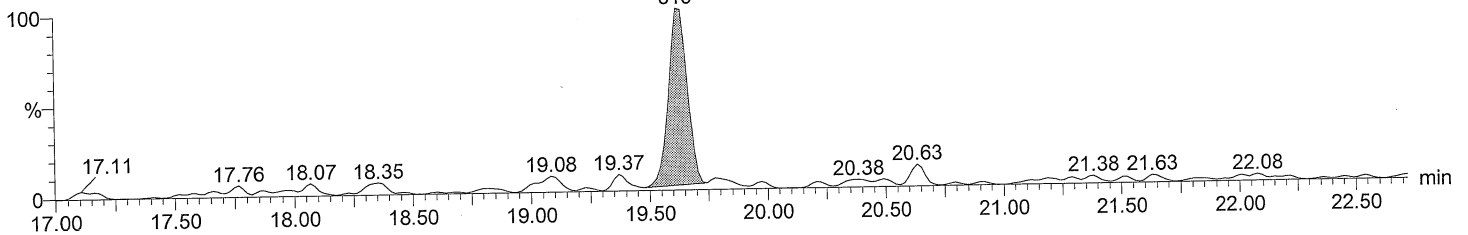
Time: 19:33:17

Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

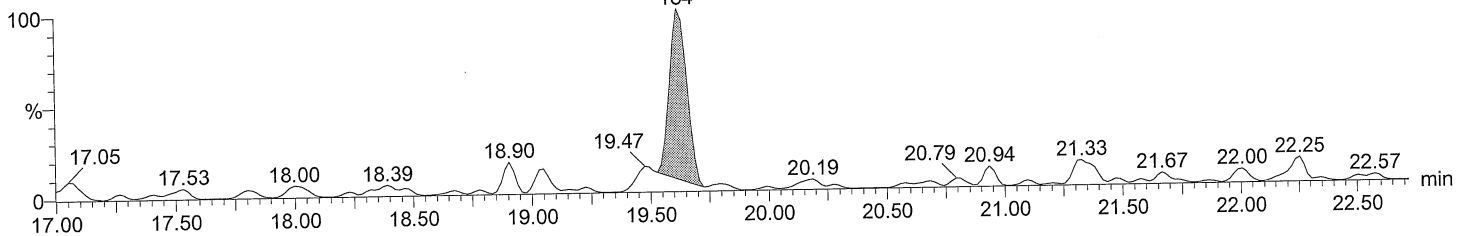
F4:SIR of 14 channels,EI+
325.8805
3.591e+003



Total PeCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

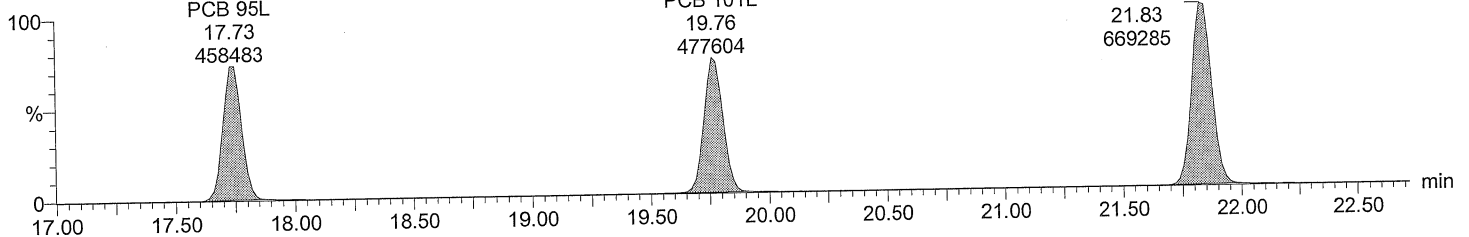
F4:SIR of 14 channels,EI+
327.8775
2.323e+003



Total PeCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

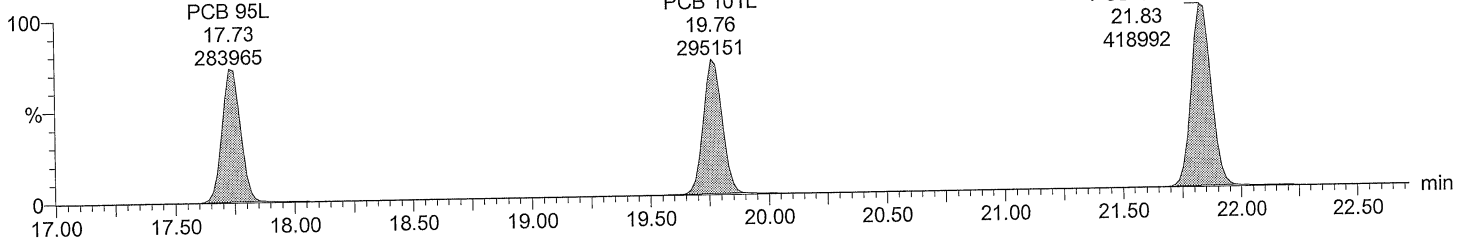
F4:SIR of 14 channels,EI+
337.9207
6.980e+006



Total PeCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F4:SIR of 14 channels,EI+
339.9178
4.381e+006



Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

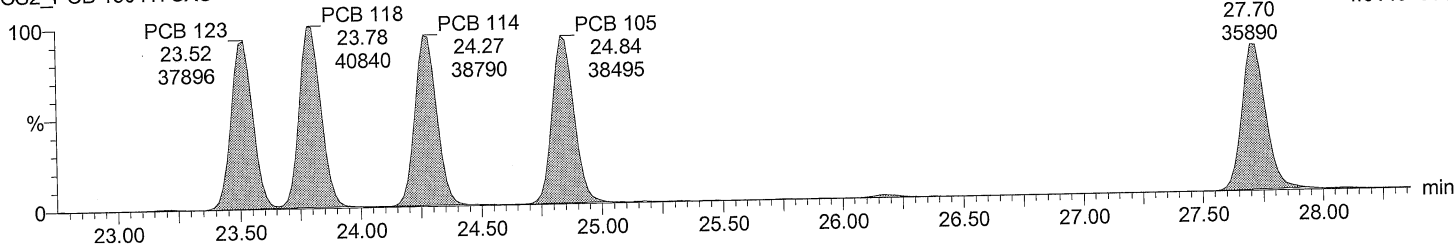
Total PeCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126 325.8805

27.70 4.014e+005



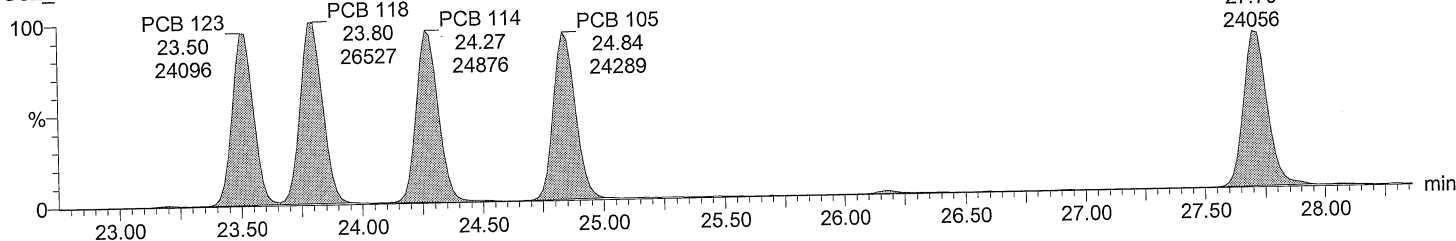
Total PeCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126 327.8775

27.70 2.536e+005



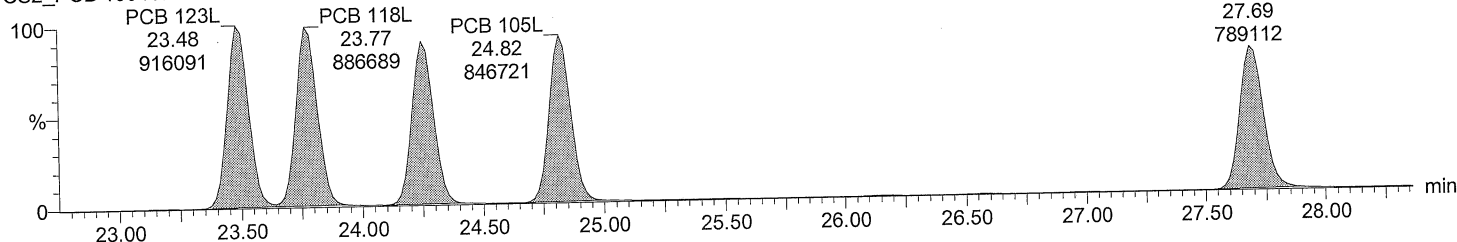
Total PeCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126L 337.9207

27.69 9.109e+006



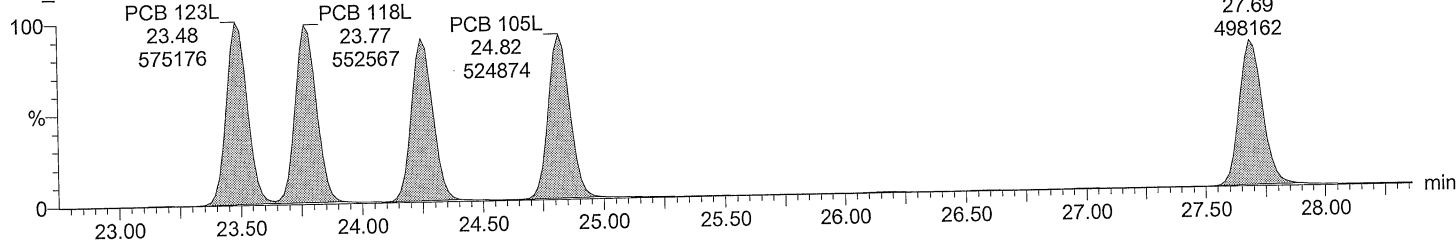
Total PeCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126L 339.9178

27.69 5.730e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

Time: 19:33:17

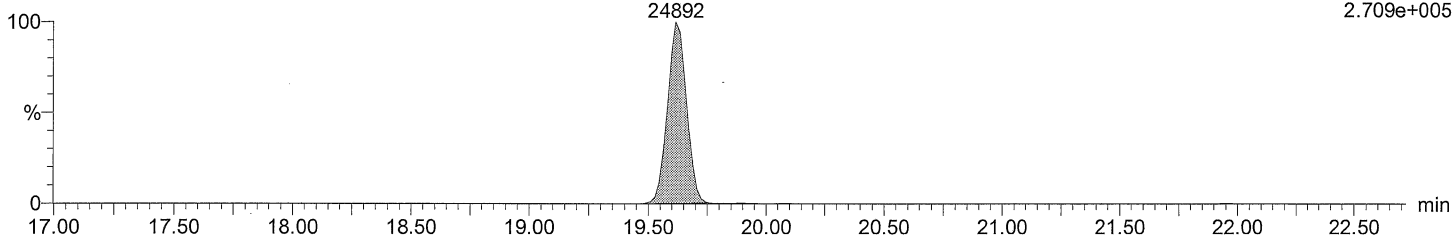
Instrument: Autospec-UltimaE

Total HxCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 155
19.62
24892

F4:SIR of 14 channels,EI+
359.8415
2.709e+005

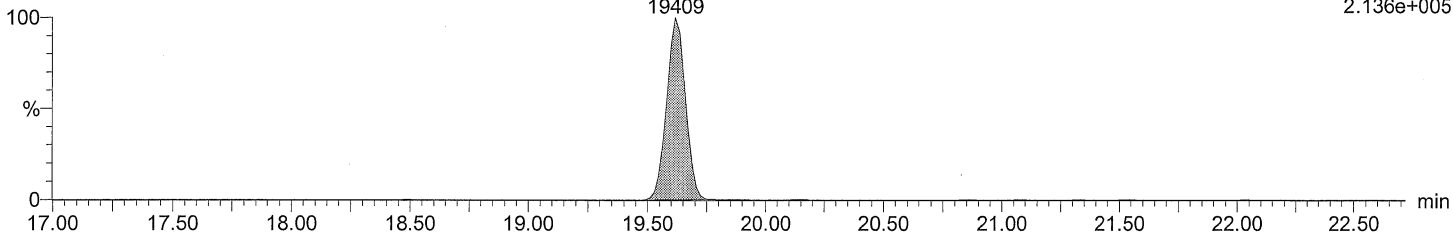


Total HxCB F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 155
19.62
19409

F4:SIR of 14 channels,EI+
361.8385
2.136e+005

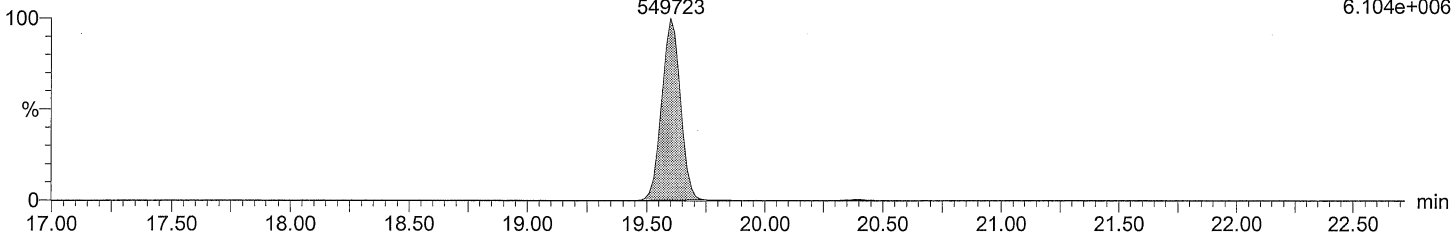


Total HxCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 155L
19.60
549723

F4:SIR of 14 channels,EI+
371.8817
6.104e+006

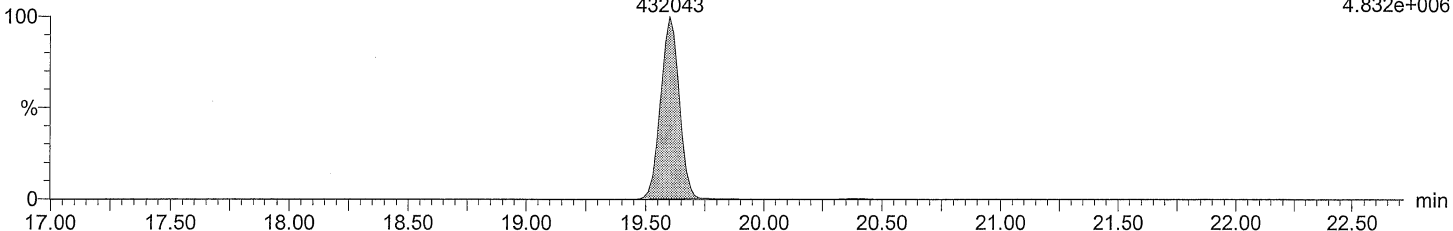


Total HxCB labeled F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 155L
19.60
432043

F4:SIR of 14 channels,EI+
373.8788
4.832e+006



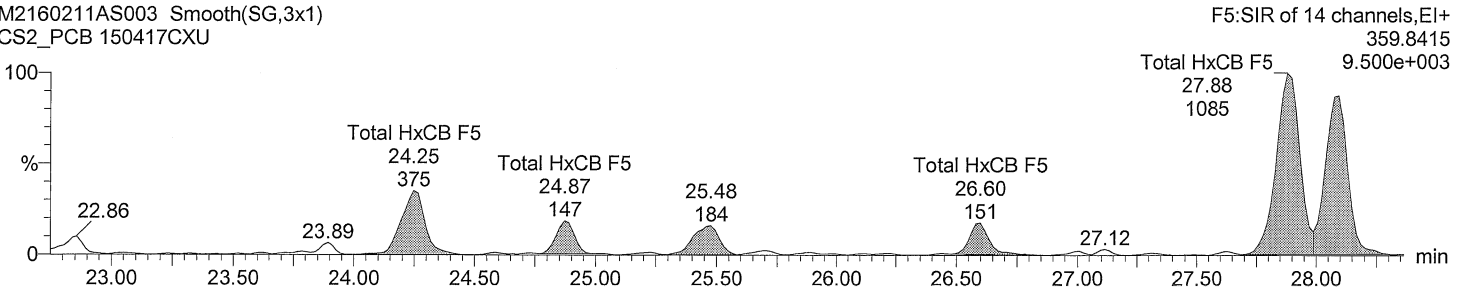
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

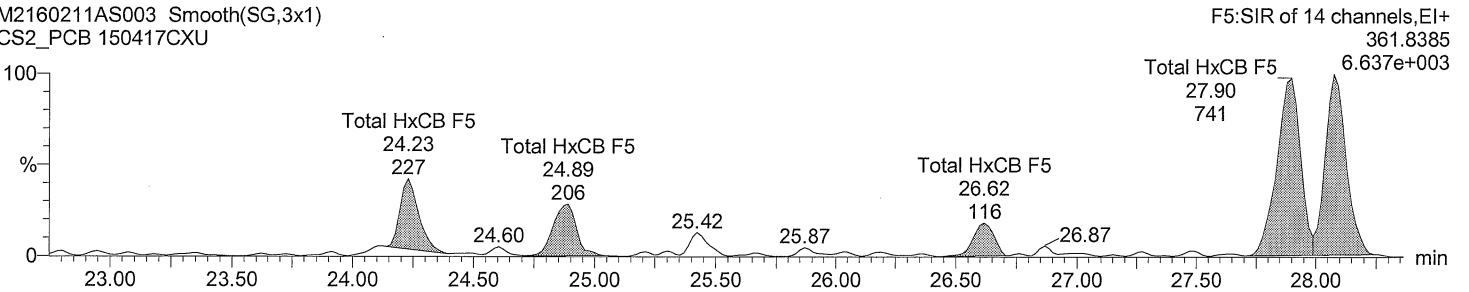
Total HxCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



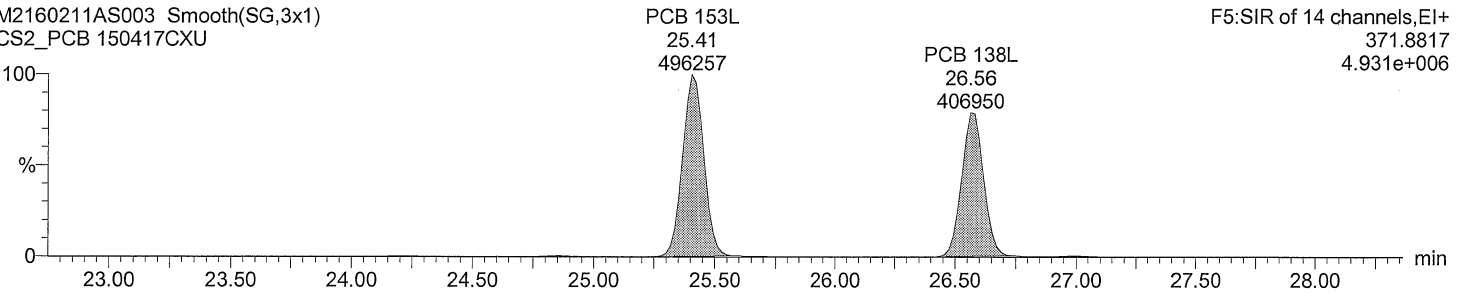
Total HxCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



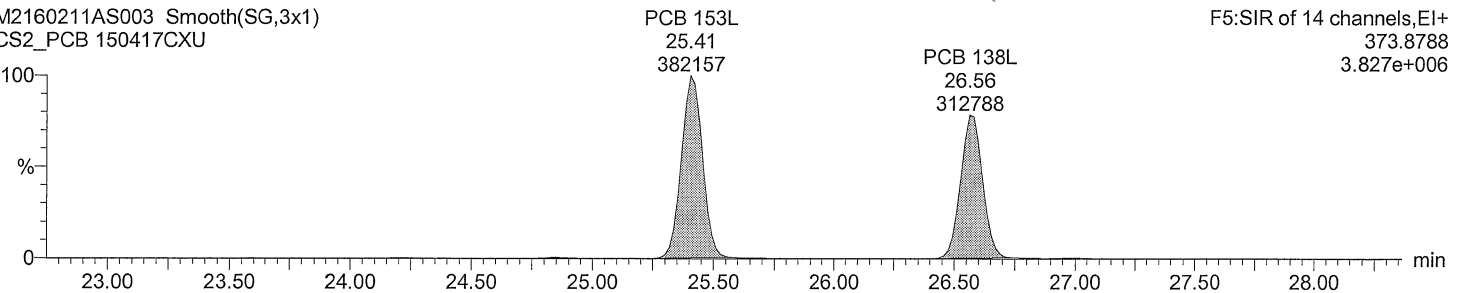
Total HxCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



Total HxCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

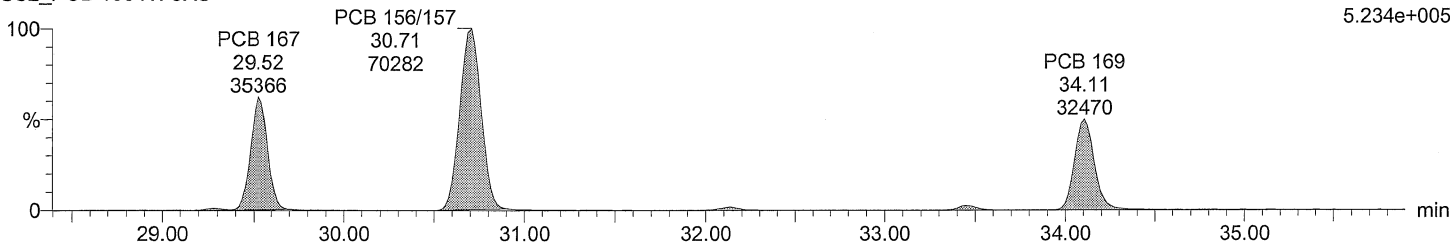
Time: 19:33:17

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

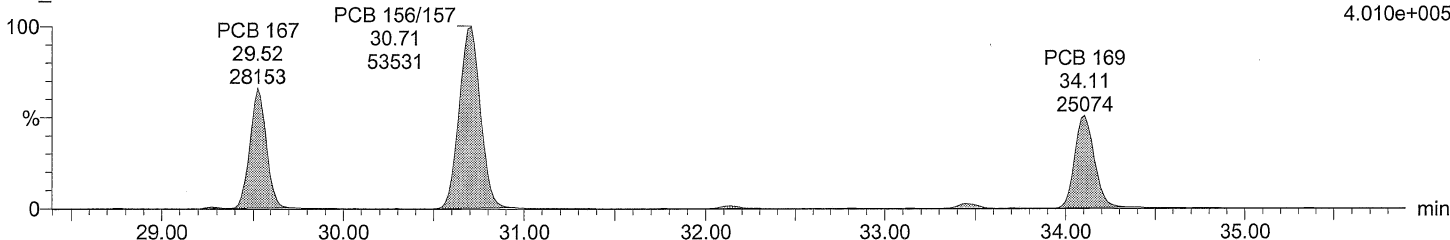
F6:SIR of 14 channels,EI+
359.8415
5.234e+005



Total HxCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

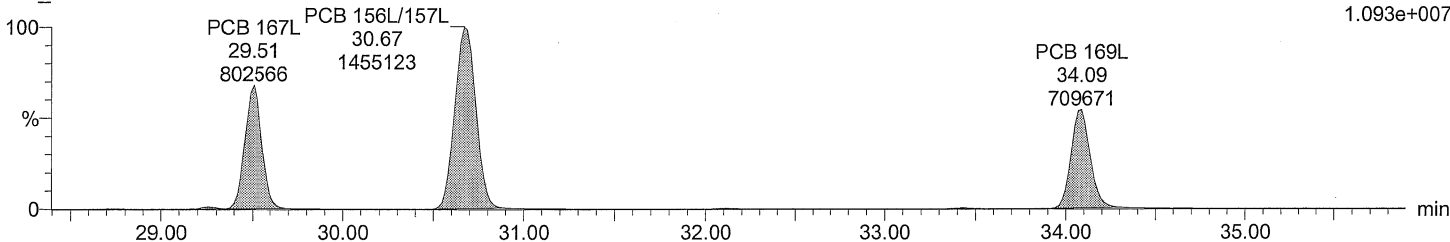
F6:SIR of 14 channels,EI+
361.8385
4.010e+005



Total HxCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

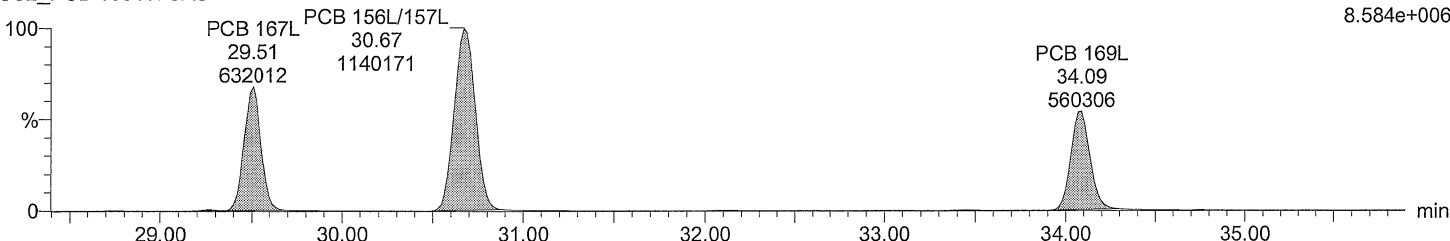
F6:SIR of 14 channels,EI+
371.8817
1.093e+007



Total HxCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F6:SIR of 14 channels,EI+
373.8788
8.584e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

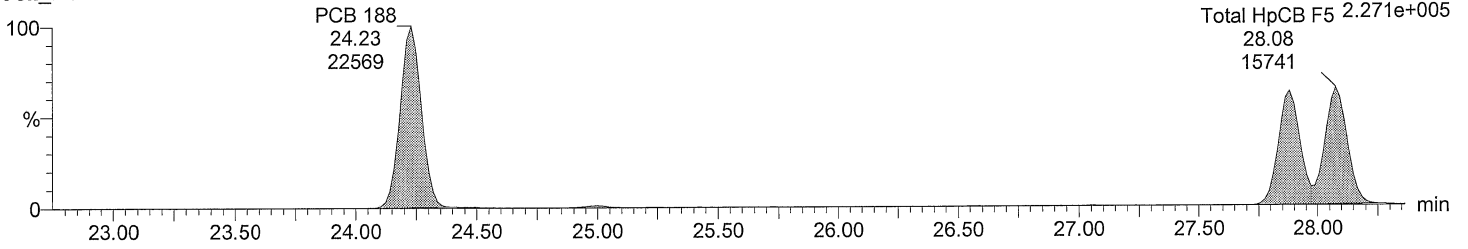
F5:SIR of 14 channels,EI+

393.8025

Total HpCB F5 2.271e+005

28.08

15741



Total HpCB F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

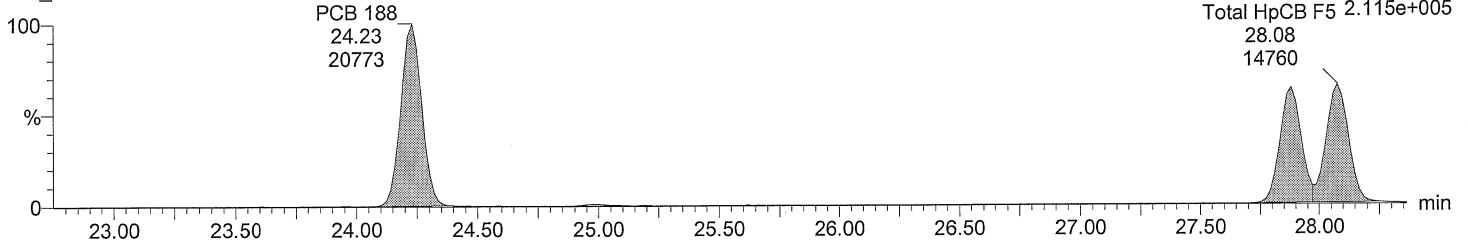
F5:SIR of 14 channels,EI+

395.7995

Total HpCB F5 2.115e+005

28.08

14760



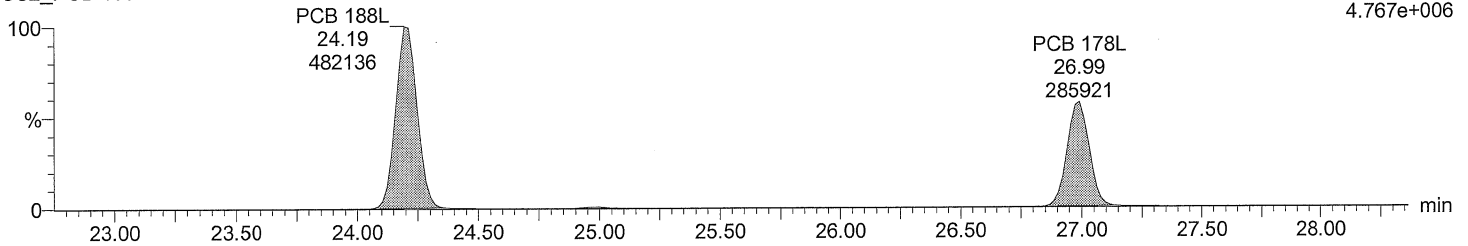
Total HpCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

405.8428

4.767e+006



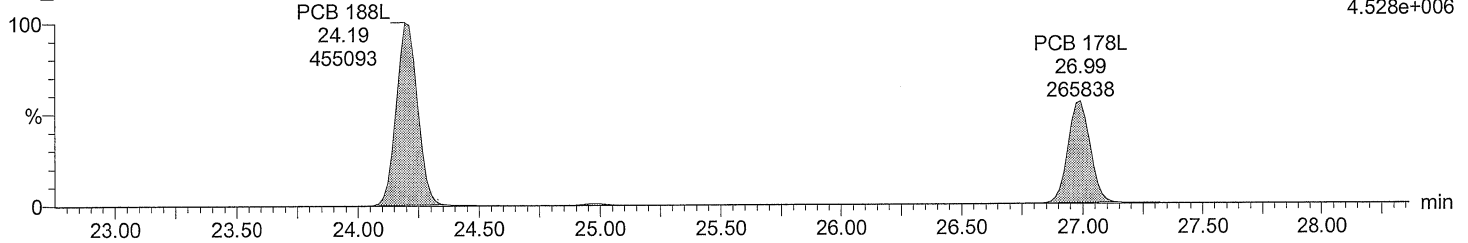
Total HpCB labeled F5

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F5:SIR of 14 channels,EI+

407.8398

4.528e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

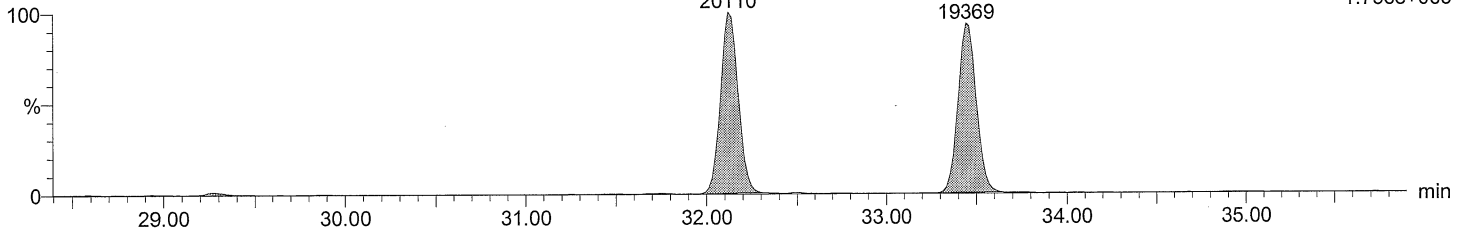
Total HpCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 193/180
32.12
20110

PCB 170
33.44
19369

F6:SIR of 14 channels,EI+
393.8025
1.796e+005



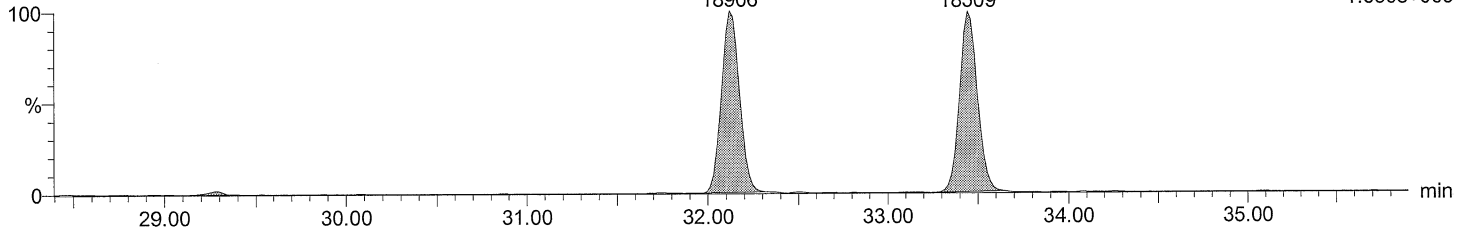
Total HpCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 193/180
32.12
18906

PCB 170
33.44
18509

F6:SIR of 14 channels,EI+
395.7995
1.650e+005



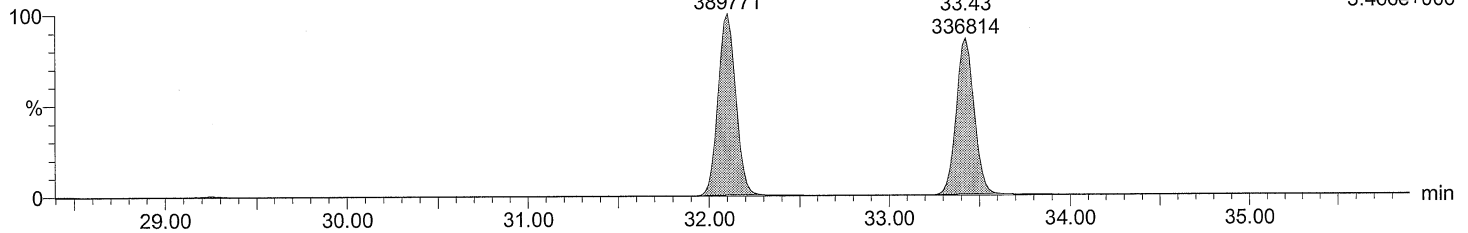
Total HpCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 180L
32.10
389771

PCB 170L
33.43
336814

F6:SIR of 14 channels,EI+
405.8428
3.466e+006



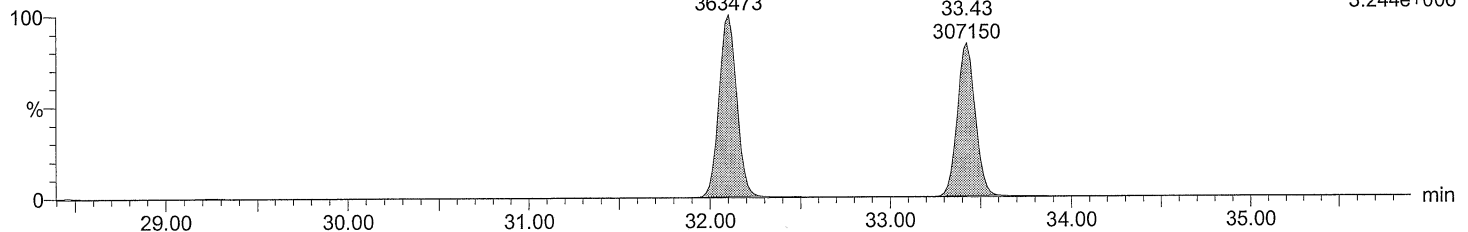
Total HpCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 180L
32.10
363473

PCB 170L
33.43
307150

F6:SIR of 14 channels,EI+
407.8398
3.244e+006



Acquired Date

Dátaset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

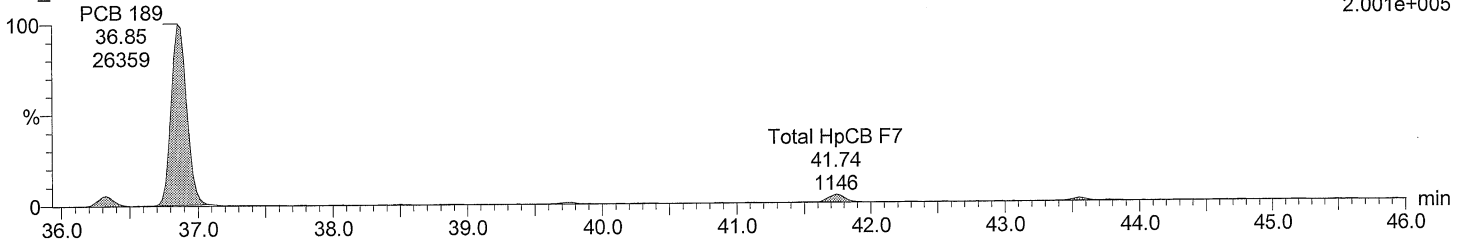
Time: 19:33:17

Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

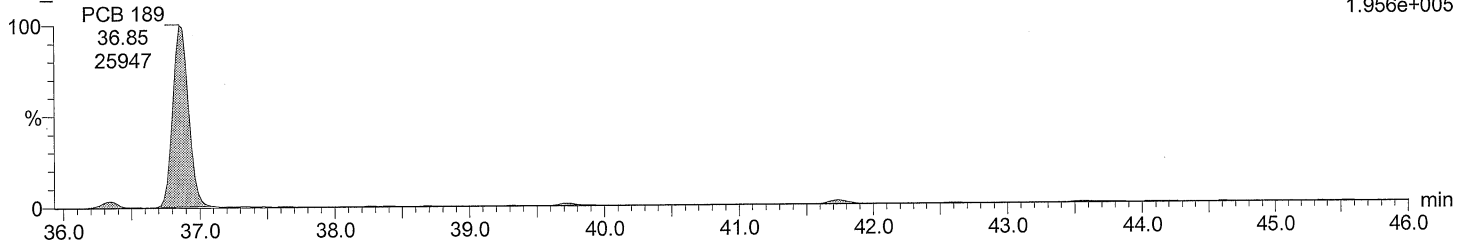
F7:SIR of 18 channels,EI+
393.8025
2.001e+005



Total HpCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

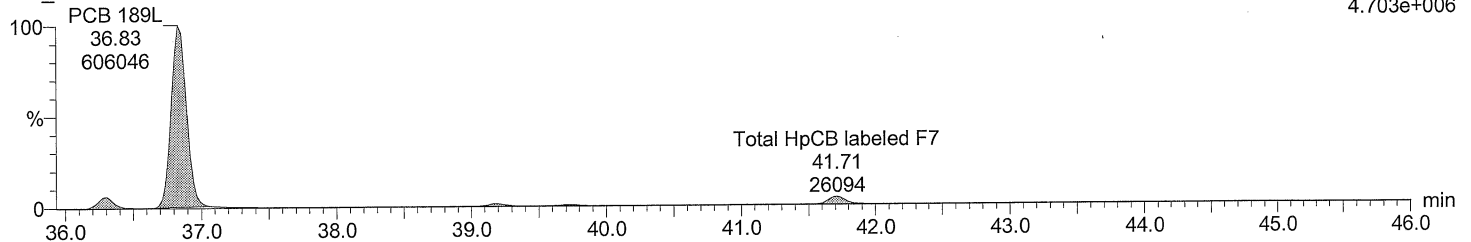
F7:SIR of 18 channels,EI+
395.7995
1.956e+005



Total HpCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

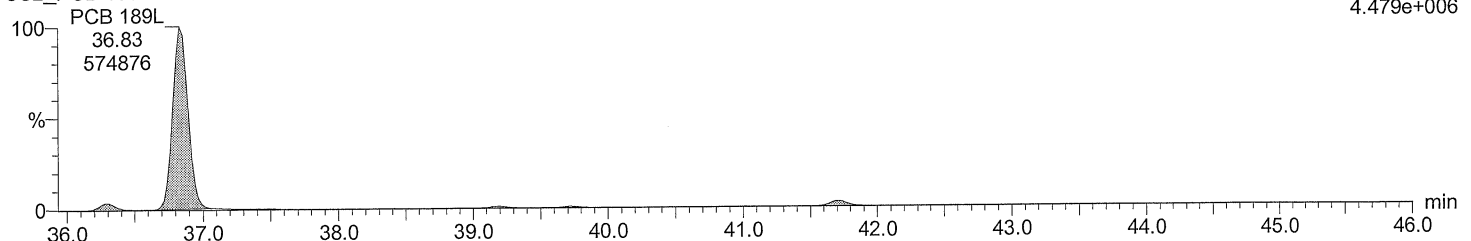
F7:SIR of 18 channels,EI+
405.8428
4.703e+006



Total HpCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F7:SIR of 18 channels,EI+
407.8398
4.479e+006



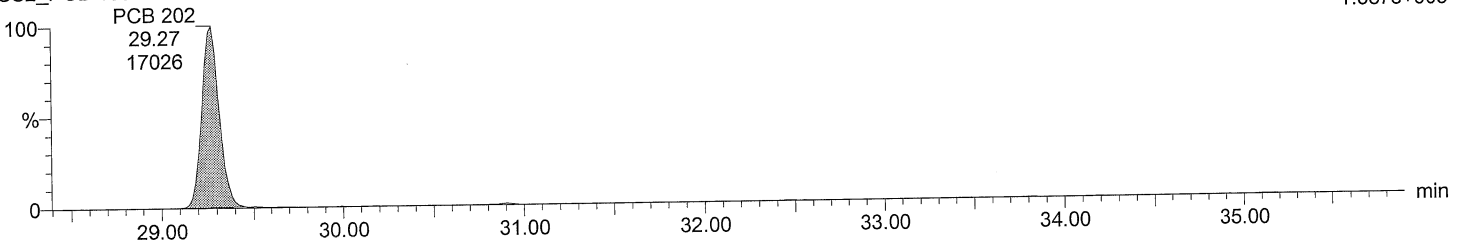
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU
Vial: 3
Date: 11-FEB-2016
Time: 19:33:17
Instrument: Autospec-UltimaE

Total OcCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

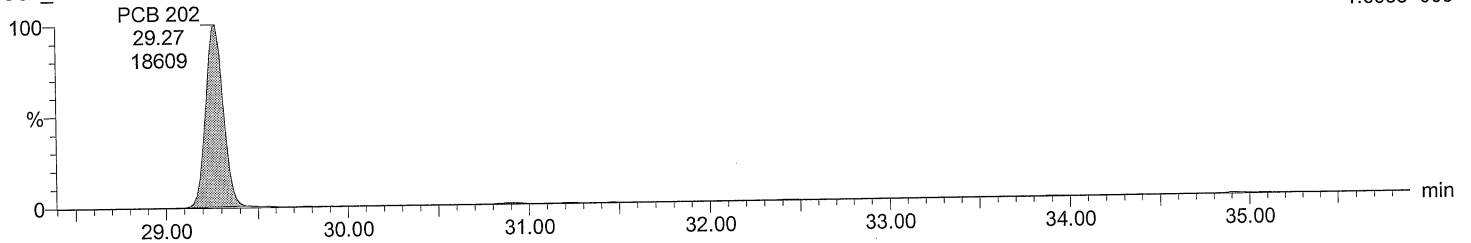
F6:SIR of 14 channels, EI+
427.7635
1.587e+005



Total OcCB F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

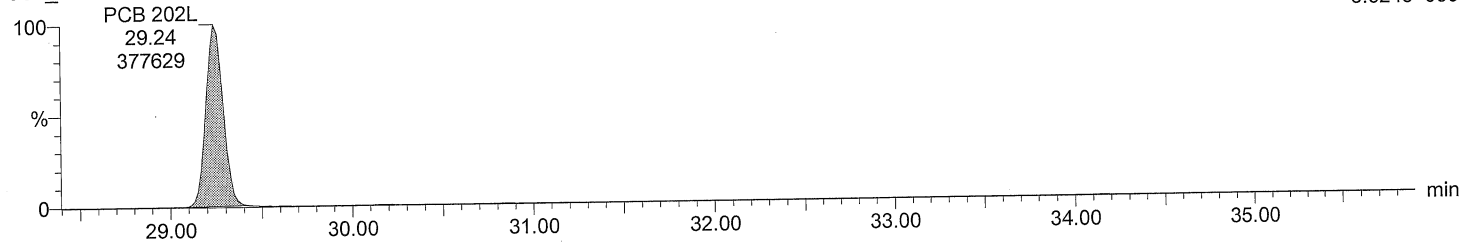
F6:SIR of 14 channels, EI+
429.7606
1.693e+005



Total OcCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

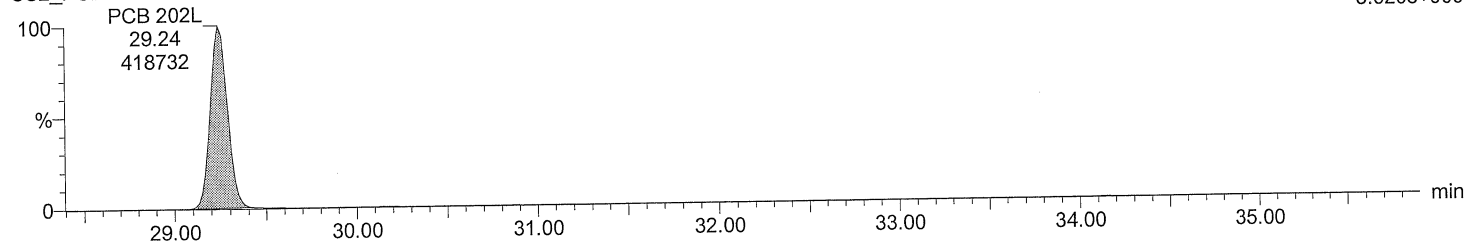
F6:SIR of 14 channels, EI+
439.8038
3.524e+006



Total OcCB labeled F6

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F6:SIR of 14 channels, EI+
441.8008
3.920e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

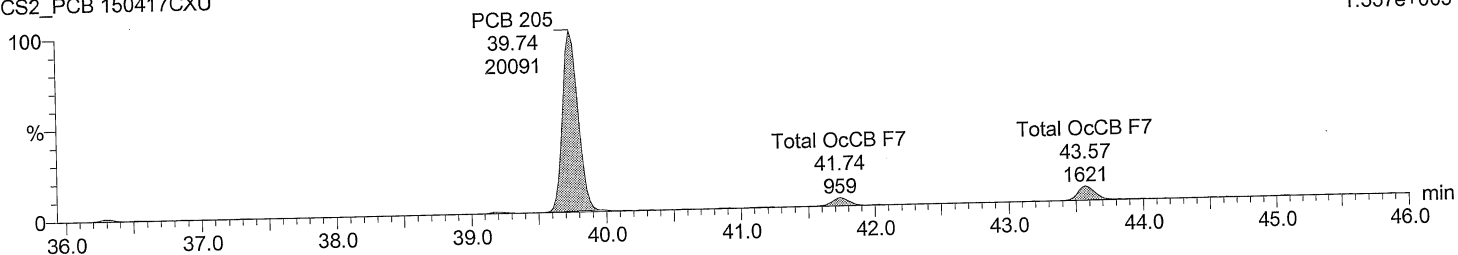
Time: 19:33:17

Instrument: Autospec-UltimaE

Total OoCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

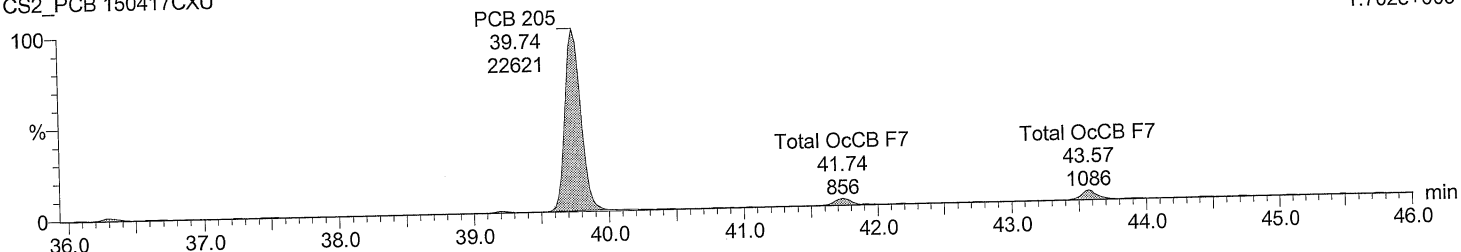
F7:SIR of 18 channels, EI+
427.7635
1.557e+005



Total OoCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

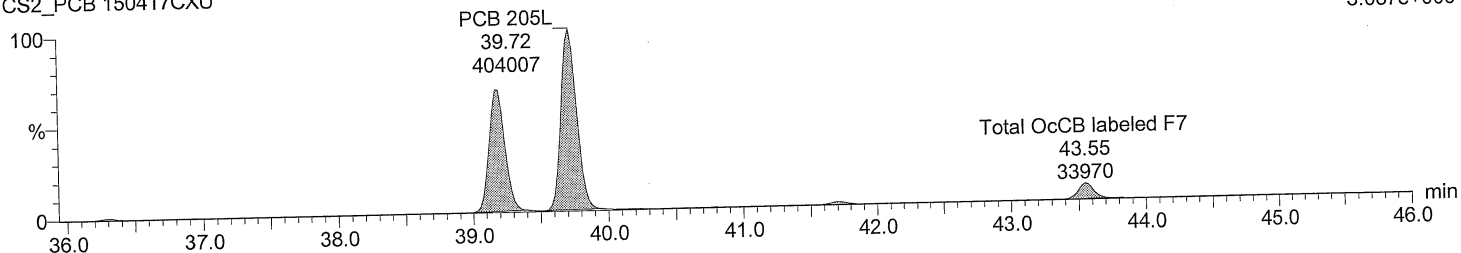
F7:SIR of 18 channels, EI+
429.7606
1.702e+005



Total OoCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

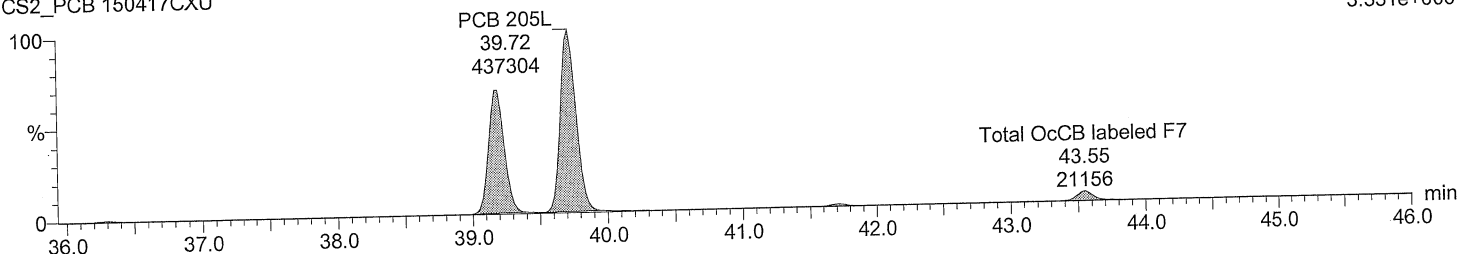
F7:SIR of 18 channels, EI+
439.8038
3.087e+006



Total OoCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F7:SIR of 18 channels, EI+
441.8008
3.331e+006



Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

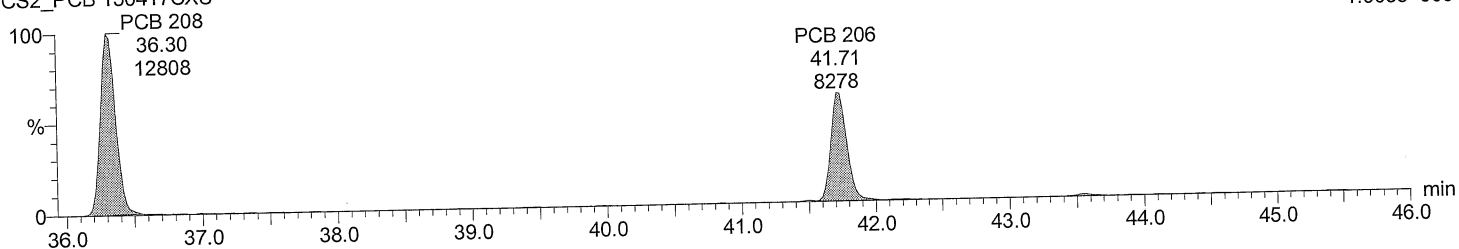
Time: 19:33:17

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

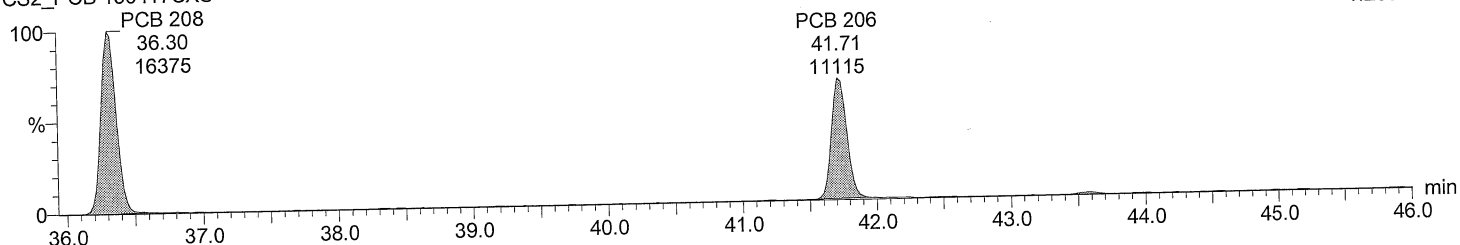
F7:SIR of 18 channels, EI+
461.7246
1.003e+005



Total NoCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

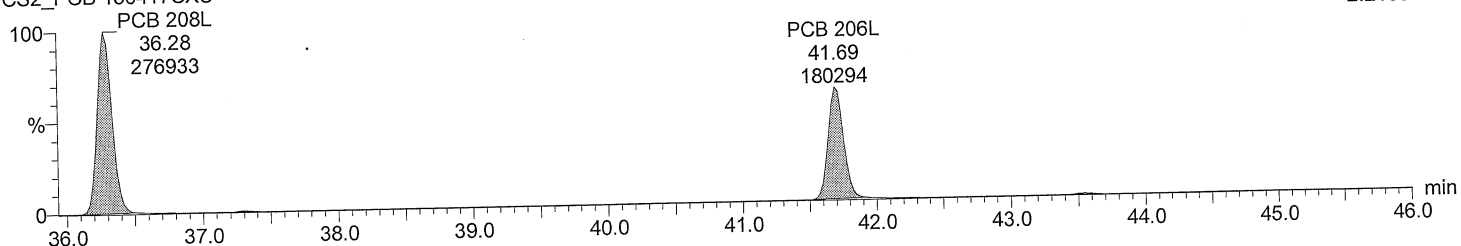
F7:SIR of 18 channels, EI+
463.7216
1.260e+005



Total NoCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

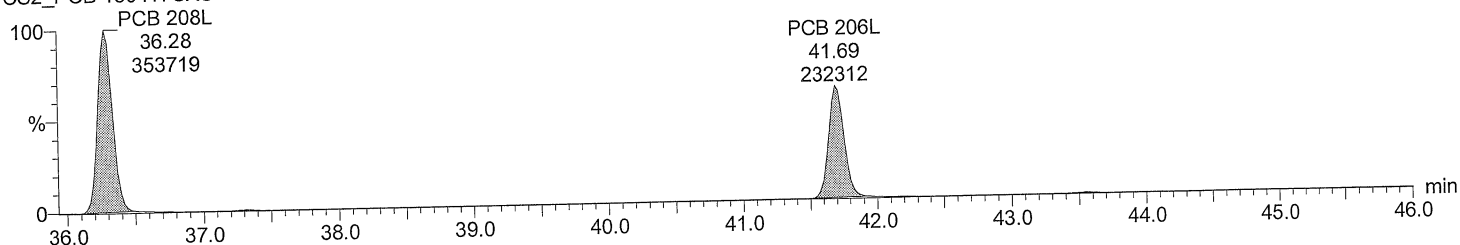
F7:SIR of 18 channels, EI+
473.7648
2.213e+006



Total NoCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F7:SIR of 18 channels, EI+
475.7619
2.834e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

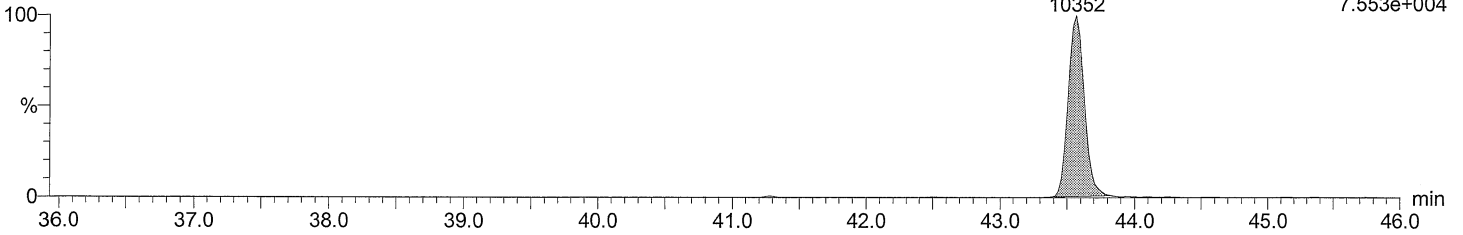
Time: 19:33:17

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

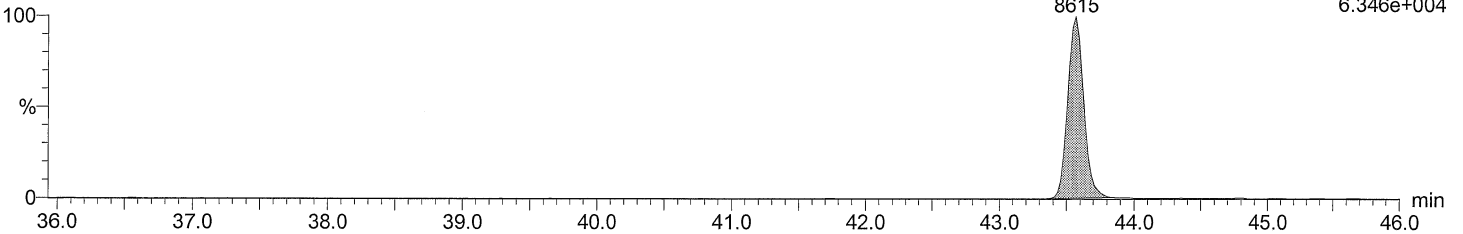
PCB 209 F7:SIR of 18 channels,EI+
43.57 497.6826
10352 7.553e+004



Total DeCB F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

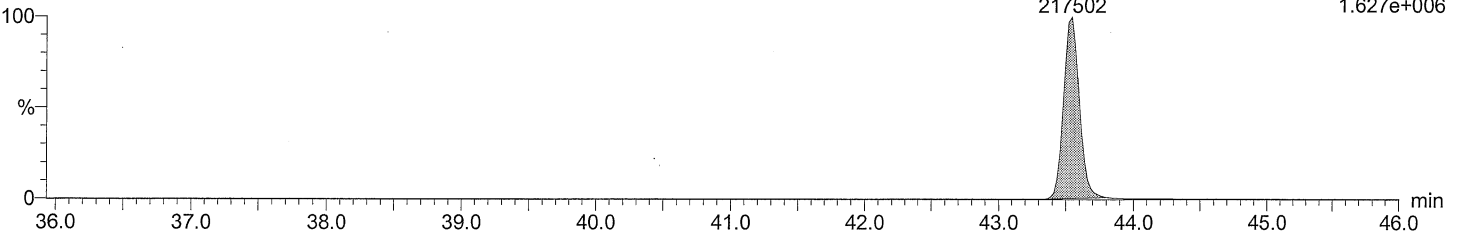
PCB 209 F7:SIR of 18 channels,EI+
43.57 499.6797
8615 6.346e+004



Total DeCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

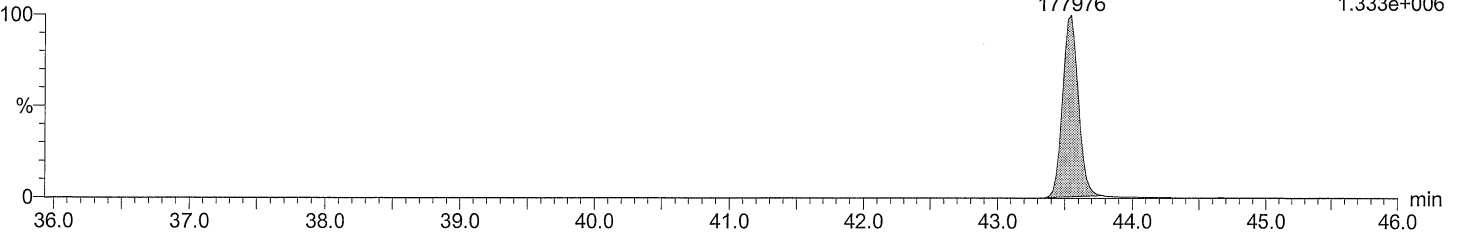
PCB 209L F7:SIR of 18 channels,EI+
43.55 509.7229
217502 1.627e+006



Total DeCB labeled F7

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

PCB 209L F7:SIR of 18 channels,EI+
43.55 511.7199
177976 1.333e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

Date: 11-FEB-2016

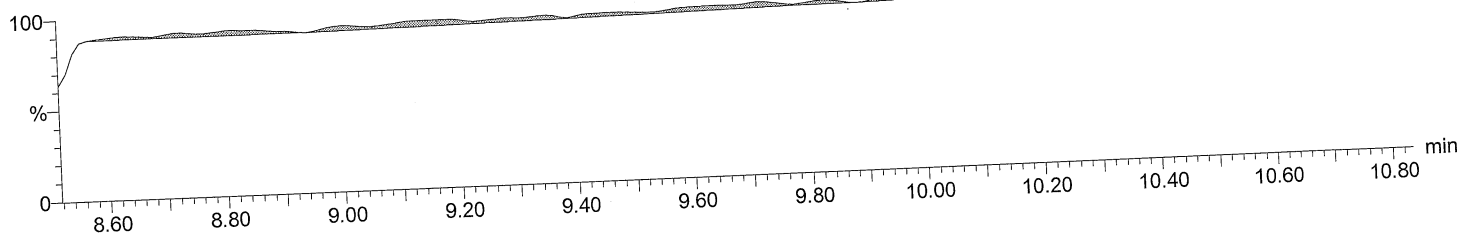
Time: 19:33:17

Instrument: Autospec-UltimaE

lockmass F1

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

F1:SIR of 10 channels, EI+
218.9856
4.484e+006

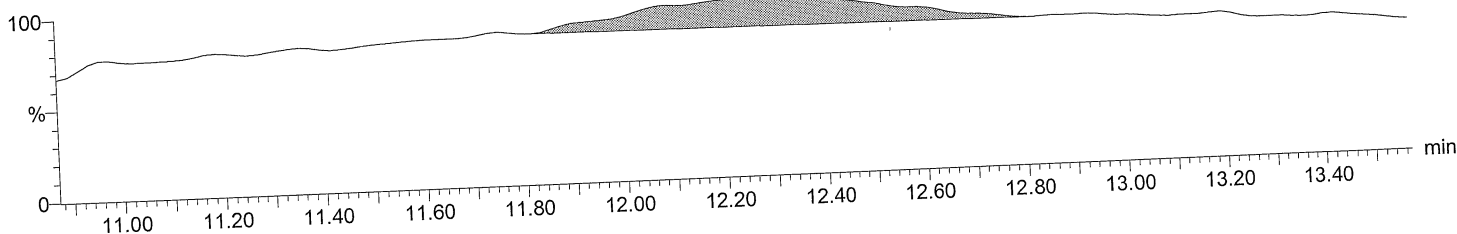


lockmass F2

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

lockmass F2
12.27
164116

F2:SIR of 16 channels, EI+
242.9856
1.764e+006

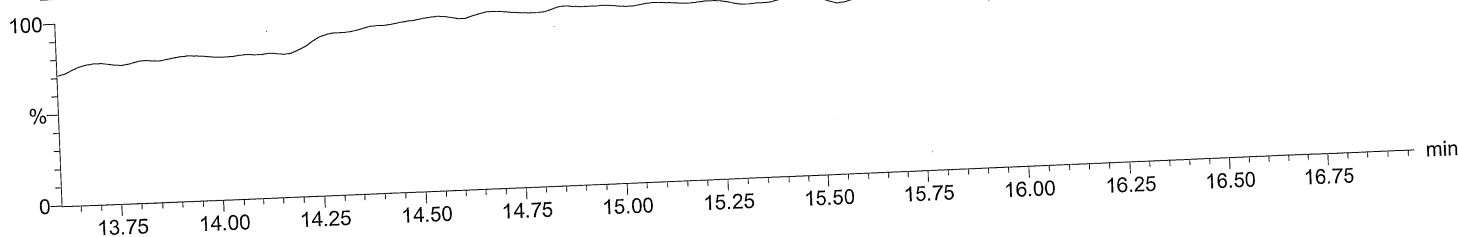


lockmass F3

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

15.45 15.66 15.81

F3:SIR of 14 channels, EI+
292.9824
1.377e+006

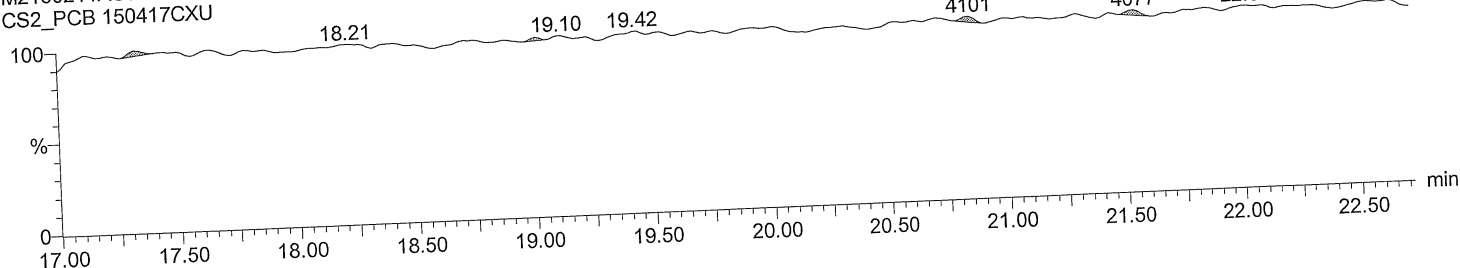


lockmass F4

M2160211AS003 Smooth(SG,3x1)
CS2_PCB 150417CXU

lockmass F4 20.85 4101
lockmass F4 21.54 4077

F4:SIR of 14 channels, EI+
330.9792
2.040e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2_PCB 150417CXU

Vial: 3

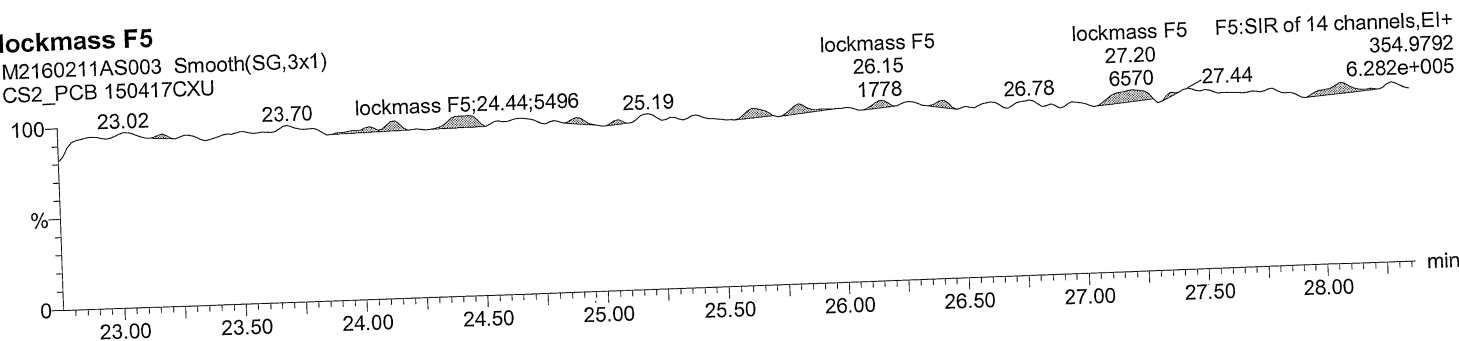
Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

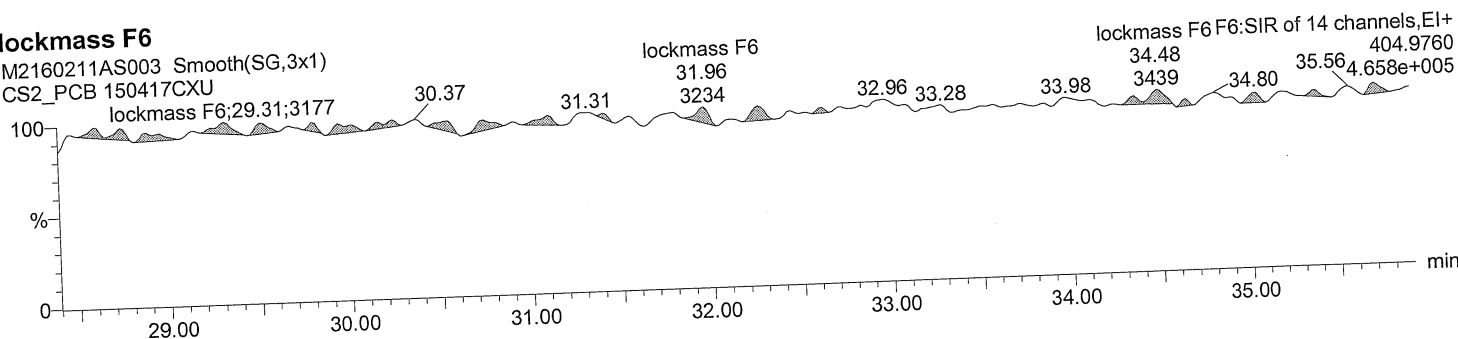
lockmass F5

M2160211AS003 Smooth(SG,3x1)
 CS2_PCB 150417CXU



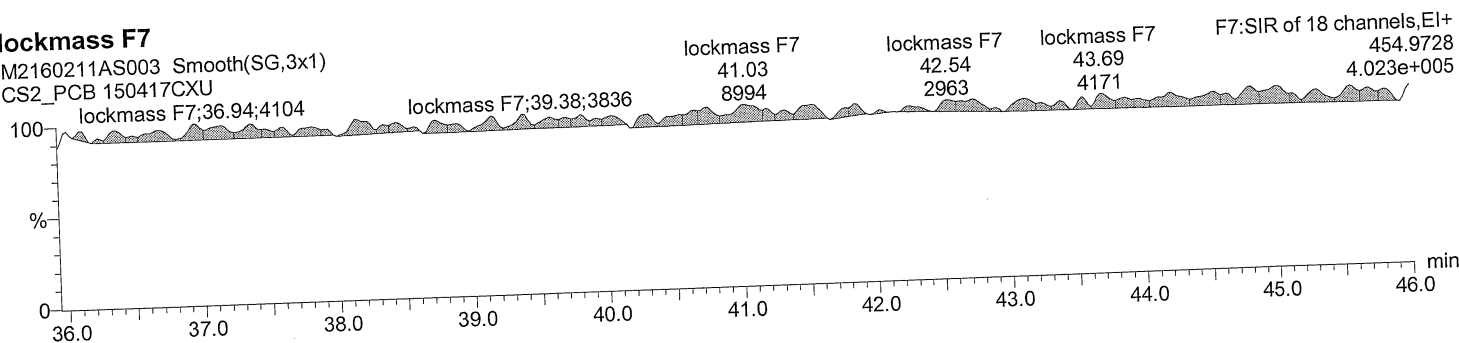
lockmass F6

M2160211AS003 Smooth(SG,3x1)
 CS2_PCB 150417CXU



lockmass F7

M2160211AS003 Smooth(SG,3x1)
 CS2_PCB 150417CXU



Quantify Sample Summary Report

MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

Description: CS3_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1	PCB 1	8.99	1.001	621160	191819	3.24	YES	bb	51.625	3.3	103	29	1.117
2	PCB 3	10.17	1.000	622878	195495	3.19	YES	bd	52.418	4.8	105	30	1.131
3	PCB 4	10.29	1.000	292114	184579	1.58	YES	bb	52.225	4.5	104	31	0.996
4	PCB 15	12.94	1.002	526481	347562	1.51	YES	bb	51.471	2.9	103	32	0.896
5	PCB 19	11.67	1.000	248016	239084	1.04	YES	bb	52.423	4.8	105	33	0.942
6	PCB 37	16.69	1.001	432334	419648	1.03	YES	bb	51.689	3.4	103	34	0.936
7	PCB 54	13.07	1.002	256289	331718	0.77	YES	bb	52.470	4.9	105	35	0.956
8	PCB 81	21.42	1.001	368492	483726	0.76	YES	bb	51.509	3.0	103	36	1.058
9	PCB 77	21.88	1.001	362617	476222	0.76	YES	bb	50.756	1.5	102	37	1.094
10	PCB 104	15.94	1.001	326809	205221	1.59	YES	bb	52.320	4.6	105	38	1.145
11	PCB 123	23.50	1.001	442267	283999	1.56	YES	bd	50.920	1.8	102	39	0.911
12	PCB 118	23.78	1.001	470476	303927	1.55	YES	db	51.308	2.6	103	40	1.007
13	PCB 114	24.27	1.001	449999	286562	1.57	YES	bb	50.745	1.5	101	41	1.025
14	PCB 105	24.84	1.001	444822	282115	1.58	YES	bb	50.954	1.9	102	42	0.995
15	PCB 126	27.70	1.001	410087	265419	1.54	YES	bb	50.102	0.2	100	43	0.979
16	PCB 155	19.62	1.001	296528	231546	1.28	YES	bb	51.458	2.9	103	44	1.026
17	PCB 167	29.53	1.001	412282	328764	1.25	YES	db	50.919	1.8	102	45	0.963
18	PCB 156/157	30.69	1.001	809762	645316	1.25	YES	bb	102.451	2.5	102	46	1.042
19	PCB 169	34.11	1.001	361001	286856	1.26	YES	bb	49.847	-0.3	100	47	0.952
20	PCB 188	24.23	1.002	261542	247174	1.06	YES	bb	51.103	2.2	102	48	1.034
21	PCB 193/180	32.12	1.001	235126	220396	1.07	YES	bb	50.877	1.8	102	49	1.159
22	PCB 170	33.44	1.000	227335	211681	1.07	YES	bb	49.660	-0.7	99	50	1.262
23	PCB 189	36.85	1.001	297838	291058	1.02	YES	bb	49.619	-0.8	99	51	0.937
24	PCB 202	29.27	1.001	200034	222174	0.90	YES	bb	51.162	2.3	102	52	1.011
25	PCB 205	39.74	1.001	224183	248729	0.90	YES	bb	48.741	-2.5	97	53	1.063
26	PCB 208	36.30	1.001	152020	191132	0.80	YES	bb	49.719	-0.6	99	54	1.018
27	PCB 206	41.72	1.000	96729	122746	0.79	YES	bd	48.439	-3.1	97	55	0.995
28	PCB 209	43.57	1.000	113421	93173	1.22	YES	bb	47.902	-4.2	96	56	0.996
29	PCB 1L	8.98	0.803	1111402	344225	3.23	YES	bb	98.701	-1.3	99	63	0.813
30	PCB 3L	10.17	0.910	1103081	344314	3.20	YES	bb	94.853	-5.1	95	63	0.808
31	PCB 4L	10.29	0.920	583338	373485	1.56	YES	bb	98.495	-1.5	98	63	0.534
32	PCB 15L	12.92	1.155	1200032	750666	1.60	YES	bb	101.423	1.4	101	63	1.090
33	PCB 19L	11.67	1.043	530267	503687	1.05	YES	bb	99.881	-0.1	100	63	0.578
34	PCB 37L	16.67	1.086	939303	880965	1.07	YES	bb	97.857	-2.1	98	64	1.944
35	PCB 54L	13.05	0.850	543204	687513	0.79	YES	bb	101.315	1.3	101	64	1.314
36	PCB 81L	21.40	1.393	713591	897461	0.80	YES	bb	99.003	-1.0	99	64	1.721
37	PCB 77L	21.86	1.424	678534	855655	0.79	YES	bb	97.699	-2.3	98	64	1.638
38	PCB 104L	15.92	0.805	573170	356046	1.61	YES	bb	96.062	-3.9	96	65	1.110
39	PCB 123L	23.48	1.188	983918	610634	1.61	YES	bd	98.409	-1.6	98	65	1.905
40	PCB 118L	23.77	1.203	944093	593686	1.59	YES	db	96.402	-3.6	96	65	1.837
41	PCB 114L	24.25	1.227	886625	550110	1.61	YES	bb	96.823	-3.2	97	65	1.716
42	PCB 105L	24.82	1.256	897907	563062	1.60	YES	bb	95.778	-4.2	96	65	1.745
43	PCB 126L	27.69	1.401	848646	531906	1.60	YES	bb	95.039	-5.0	95	65	1.649
44	PCB 155L	19.60	0.738	575967	453759	1.27	YES	bb	96.968	-3.0	97	66	1.361
45	PCB 167L	29.51	1.111	858341	680309	1.26	YES	db	96.386	-3.6	96	66	2.034
46	PCB 156L/157L	30.67	1.155	1563653	1229185	1.27	YES	bb	192.161	-3.9	96	66	1.846
47	PCB 169L	34.07	1.283	764385	597346	1.28	YES	bb	95.415	-4.6	95	66	1.800
48	PCB 188L	24.19	0.911	506789	476965	1.06	YES	bb	97.805	-2.2	98	66	1.300

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Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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ID:

Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

Description: CS3_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
49	PCB 180L	32.10	0.820	407502	378678	1.08	YES	bb	97.692	-2.3	98	67	1.317
50	PCB 170L	33.43	0.853	361970	333602	1.09	YES	bb	98.769	-1.2	99	67	1.166
51	PCB 189L	36.83	0.940	644558	613038	1.05	YES	bb	97.688	-2.3	98	67	2.107
52	PCB 202L	29.24	0.747	396872	438757	0.90	YES	bb	98.652	-1.3	99	67	1.400
53	PCB 205L	39.72	1.014	425639	464052	0.92	YES	bb	97.361	-2.6	97	67	1.491
54	PCB 208L	36.28	0.926	294040	380310	0.77	YES	bb	99.176	-0.8	99	67	1.130
55	PCB 206L	41.69	1.064	197518	243837	0.81	YES	bd	97.373	-2.6	97	67	0.740
56	PCB 209L	43.55	1.112	227378	187368	1.21	YES	bb	95.953	-4.0	96	67	0.695
57	PCB 28L	14.40	0.938	954376	920061	1.04	YES	db	98.163	-1.8	98	64	2.002
58	PCB 111L	21.83	1.105	710011	443386	1.60	YES	bb	102.602	2.6	103	65	1.378
59	PCB 178L	26.97	1.015	301313	278631	1.08	YES	bb	104.581	4.6	105	66	0.766
60	PCB 31L	14.24	0.927	875027	838994	1.04	YES	bd	94.633	-5.4	95	64	1.831
61	PCB 95L	17.73	0.897	481335	301804	1.60	YES	bb	98.885	-1.1	99	65	0.936
62	PCB 153L	25.41	0.956	520410	395478	1.32	YES	bb	98.807	-1.2	99	66	1.211
63	PCB 9L	11.19	0.000	1098560	691692	1.59	YES	bb	95.450	-4.5	95	0	17902...
64	PCB 52L	15.36	0.000	410287	526075	0.78	YES	bb	95.007	-5.0	95	0	9363....
65	PCB 101L	19.76	0.000	519160	317859	1.63	YES	bb	94.237	-5.8	94	0	8370....
66	PCB 138L	26.56	0.000	429393	327223	1.31	YES	bb	93.727	-6.3	94	0	7566....
67	PCB 194L	39.17	0.000	286682	310070	0.93	YES	bb	91.371	-8.6	91	0	5967....
68	Total MoCB F1								104.044			29	
69	Total MoCB labeled ...								193.553			63	
70	Total DiCB F1								52.225			31	
71	Total DiCB labeled F1								98.495			63	
72	Total DiCB F2								51.471			32	
73	Total DiCB labeled F2								196.873			63	
74	Total TriCB F2								52.423			33	
75	Total TriCB labeled F2								99.881			63	
76	Total TriCB F3								51.689			34	
77	Total TriCB labeled F3								290.653			64	
78	Total TeCB F2								52.470			35	
79	Total TeCB labeled F2								101.315			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								95.007			64	
82	Total TeCB F4								102.265			36	
83	Total TeCB labeled F4								196.702			64	
84	Total PeCB F3								52.320			38	
85	Total PeCB labeled F3								96.062			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								295.724			65	
88	Total PeCB F5								254.029			39	
89	Total PeCB labeled F5								482.450			65	
90	Total HxCB F4								51.458			44	
91	Total HxCB labeled F4								96.968			66	
92	Total HxCB F5											45	
93	Total HxCB labeled F5								192.534			66	
94	Total HxCB F6								203.217			45	
95	Total HxCB labeled F6								383.963			66	
96	Total HpCB F5								51.103			48	

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

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ID:

Date: 11-FEB-2016

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Instrument: Autospec-UltimaE

Description: CS3_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
97	Total HpCB labeled ...								202.387			67	
98	Total HpCB F6								100.537			49	
99	Total HpCB labeled ...								196.461			67	
100	Total HpCB F7								49.619			51	
101	Total HpCB labeled ...								97.688			67	
102	Total OcCB F6								51.162			52	
103	Total OcCB labeled ...								98.652			67	
104	Total OcCB F7								48.741			53	
105	Total OcCB labeled ...								188.731			67	
106	Total NoCB F7								98.158			54	
107	Total NoCB labeled ...								196.550			67	
108	Total DeCB F7								47.902			56	
109	Total DeCB labeled ...								95.953			67	
110	lockmass F1											0	
111	lockmass F2											0	
112	lockmass F3											0	
113	lockmass F4											0	
114	lockmass F5											0	
115	lockmass F6											0	
116	lockmass F7											0	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

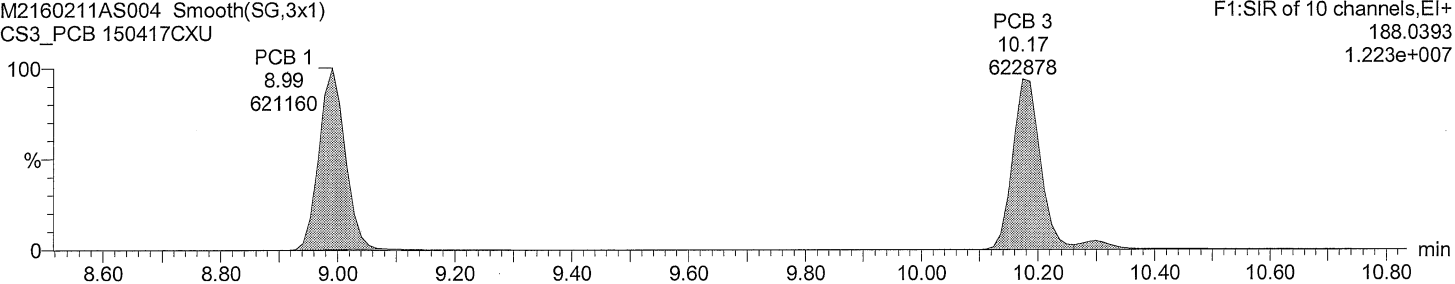
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 4
Date: 11-FEB-2016
Time: 20:23:30
Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

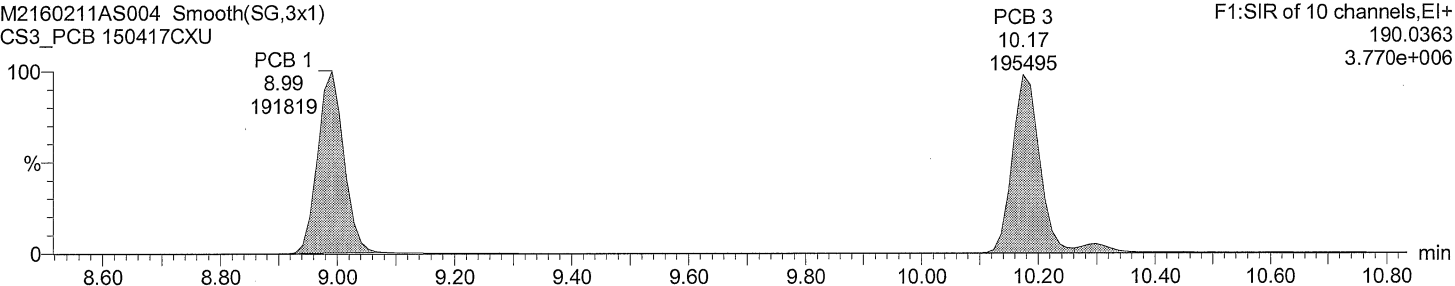
F1:SIR of 10 channels,EI+
188.0393
1.223e+007



Total MoCB F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

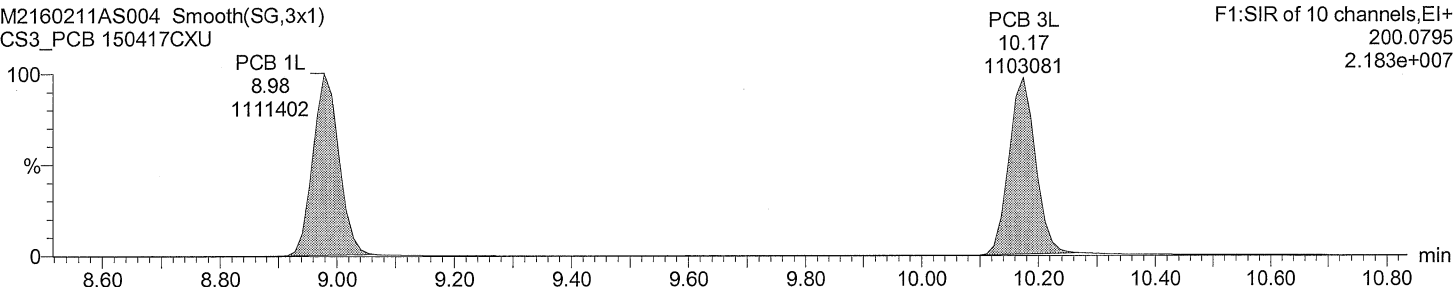
F1:SIR of 10 channels,EI+
190.0363
3.770e+006



Total MoCB labeled F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

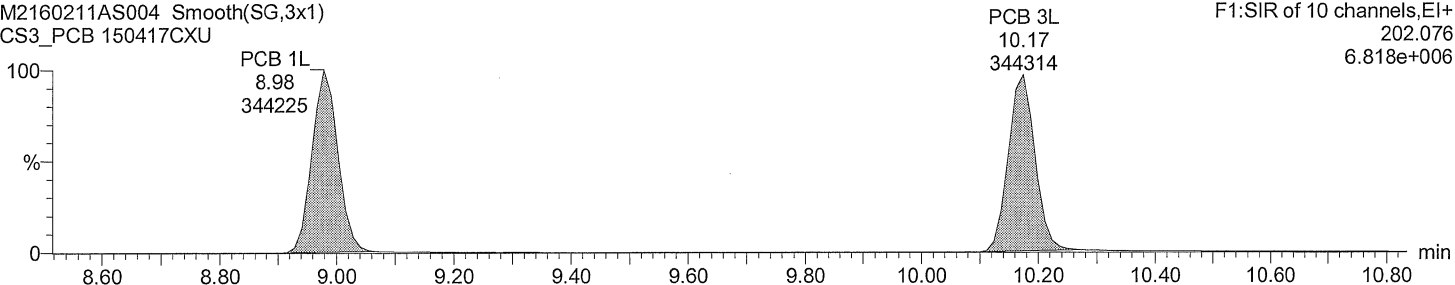
F1:SIR of 10 channels,EI+
200.0795
2.183e+007



Total MoCB labeled F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F1:SIR of 10 channels,EI+
202.076
6.818e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

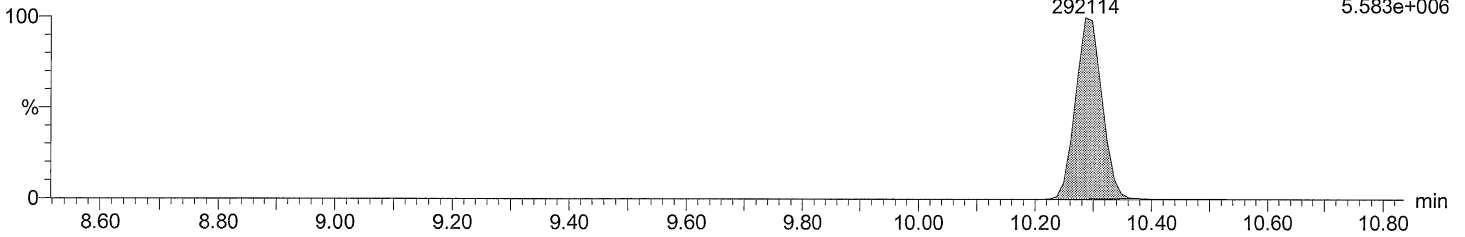
Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 4
10.29
292114

F1:SIR of 10 channels,EI+
222.0003
5.583e+006

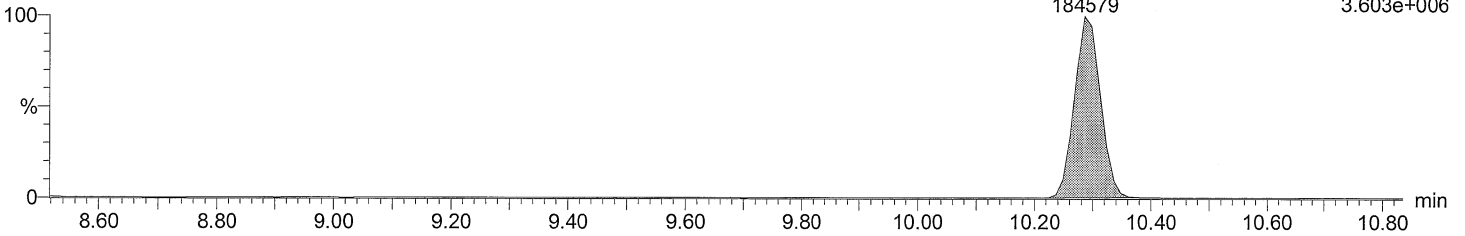


Total DiCB F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 4
10.29
184579

F1:SIR of 10 channels,EI+
223.9974
3.603e+006

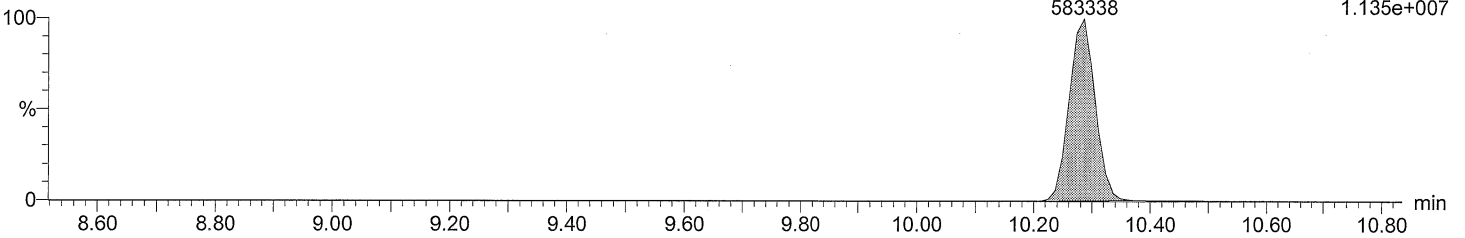


Total DiCB labeled F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 4L
10.29
583338

F1:SIR of 10 channels,EI+
234.0406
1.135e+007

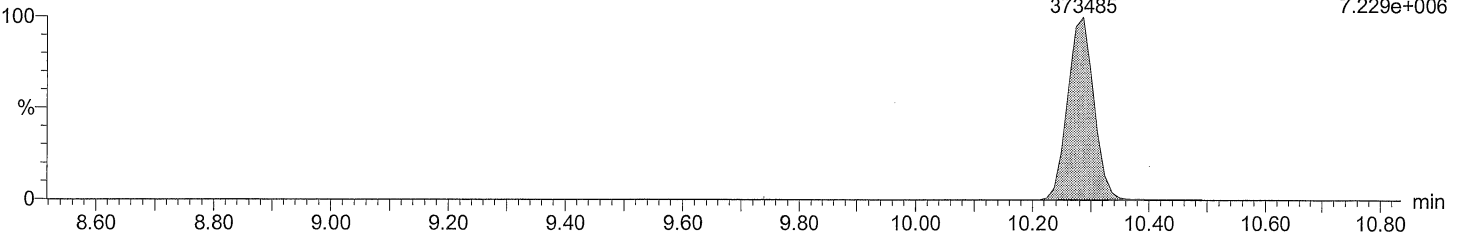


Total DiCB labeled F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 4L
10.29
373485

F1:SIR of 10 channels,EI+
236.0376
7.229e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

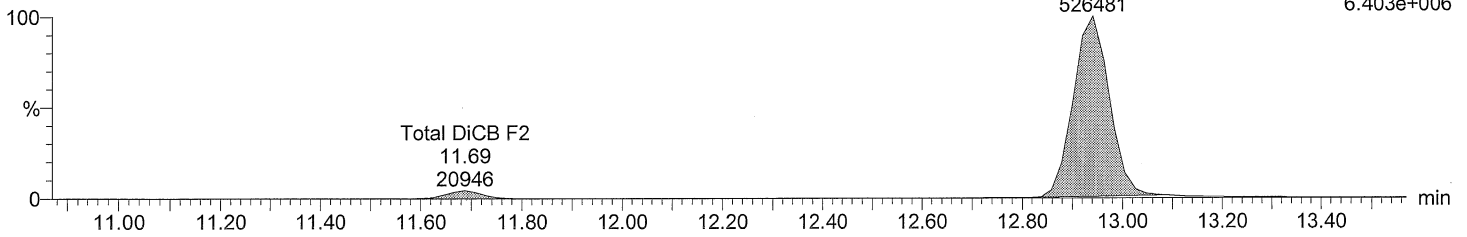
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 4
Date: 11-FEB-2016
Time: 20:23:30
Instrument: Autospec-UltimaE

Total DiCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

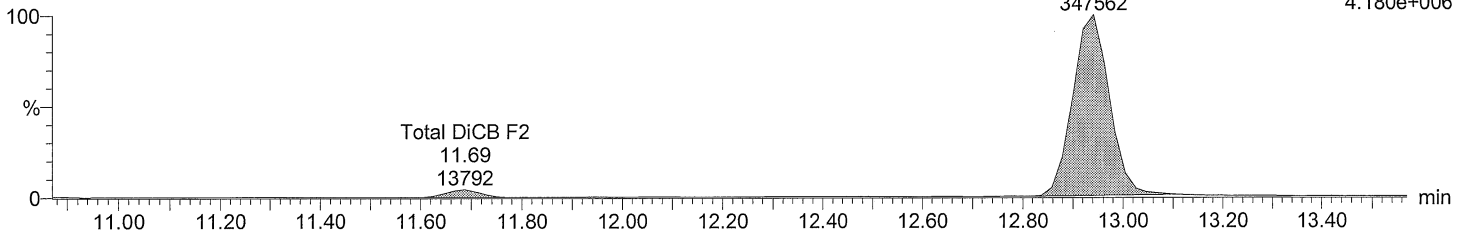
PCB 15 12.94 526481
F2:SIR of 16 channels,EI+
222.0003
6.403e+006



Total DiCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

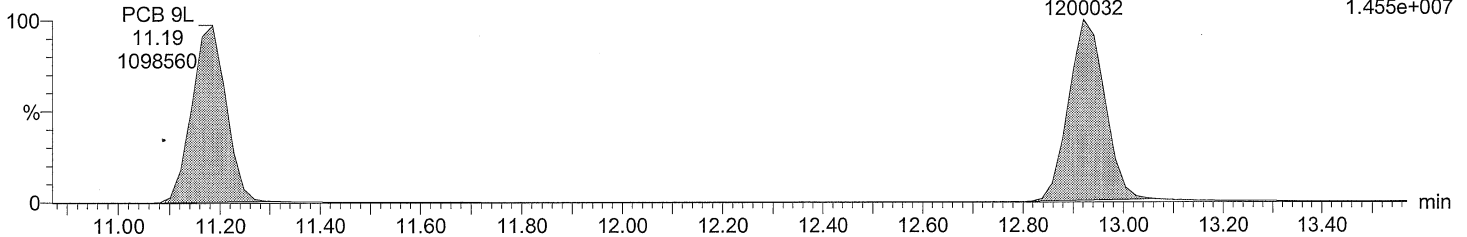
PCB 15 12.94 347562
F2:SIR of 16 channels,EI+
223.9974
4.180e+006



Total DiCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

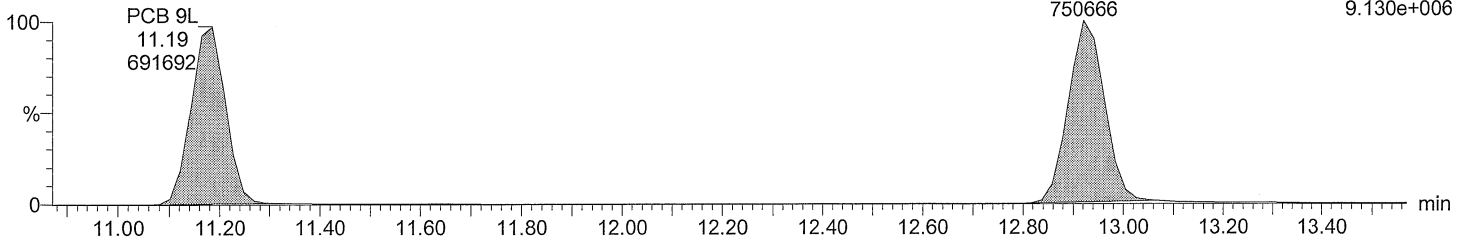
PCB 15L 12.92 1200032
F2:SIR of 16 channels,EI+
234.0406
1.455e+007



Total DiCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 15L 12.92 750666
F2:SIR of 16 channels,EI+
236.0376
9.130e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

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Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

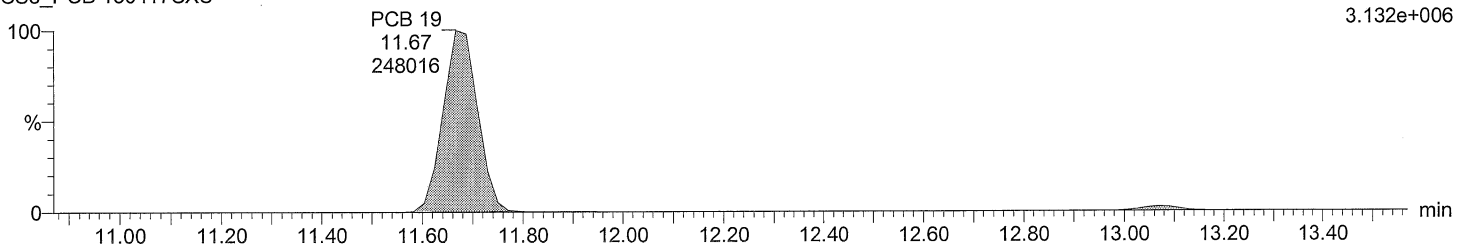
Time: 20:23:30

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

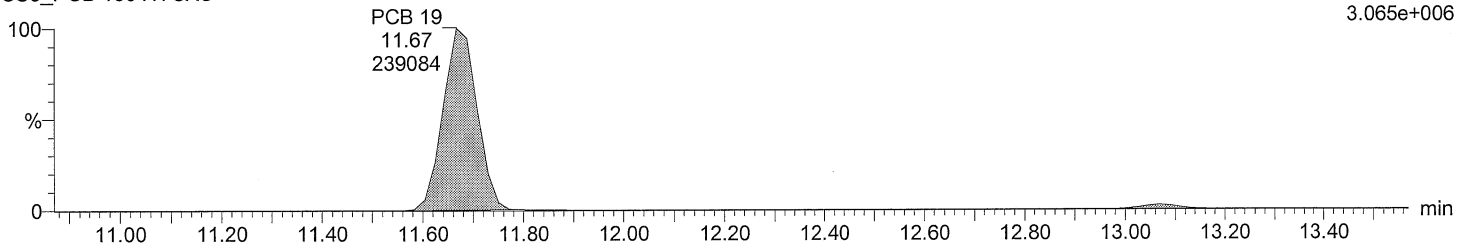
F2:SIR of 16 channels,EI+
255.9614
3.132e+006



Total TriCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

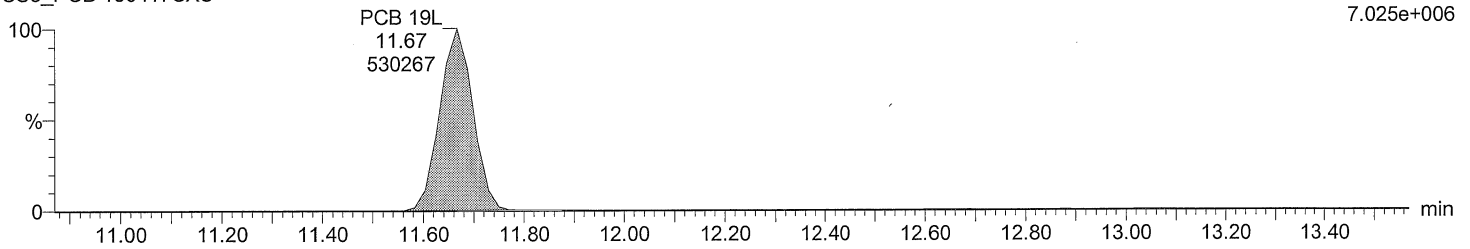
F2:SIR of 16 channels,EI+
257.9584
3.065e+006



Total TriCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

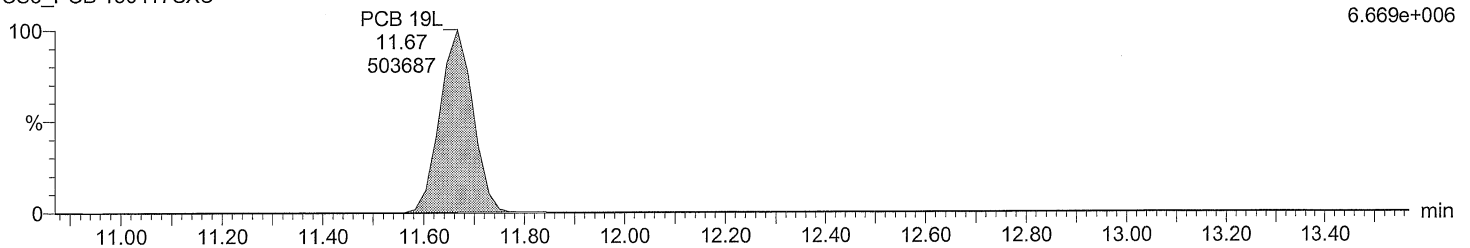
F2:SIR of 16 channels,EI+
268.0016
7.025e+006



Total TriCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F2:SIR of 16 channels,EI+
269.9986
6.669e+006



Acquired Date

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Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

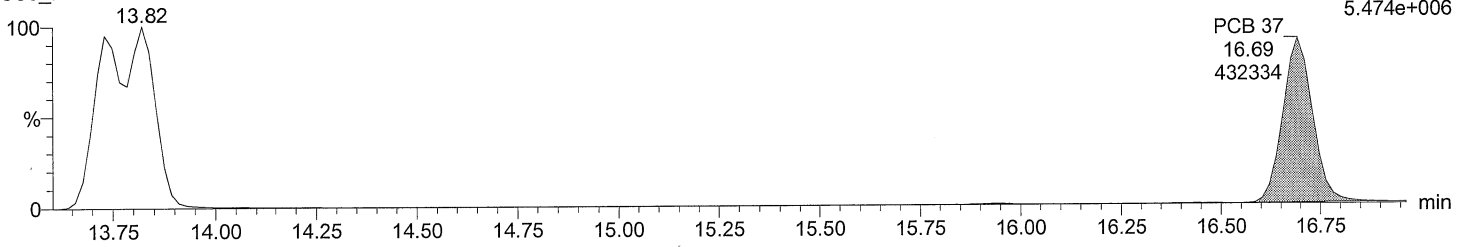
Time: 20:23:30

Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

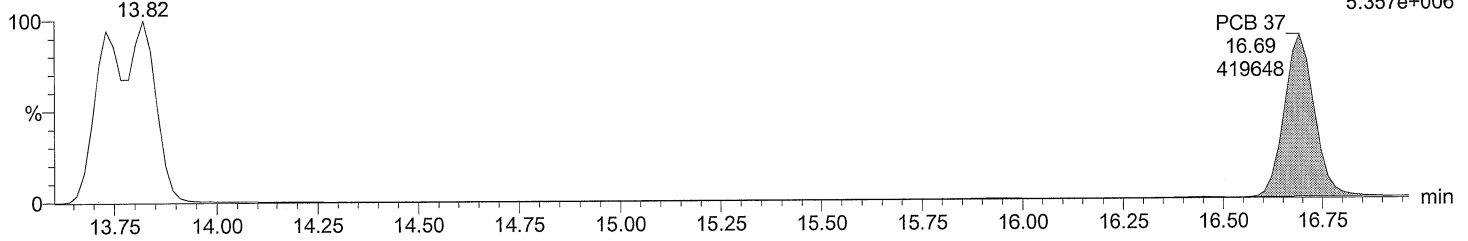
F3:SIR of 14 channels,EI+
255.9614
5.474e+006



Total TriCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

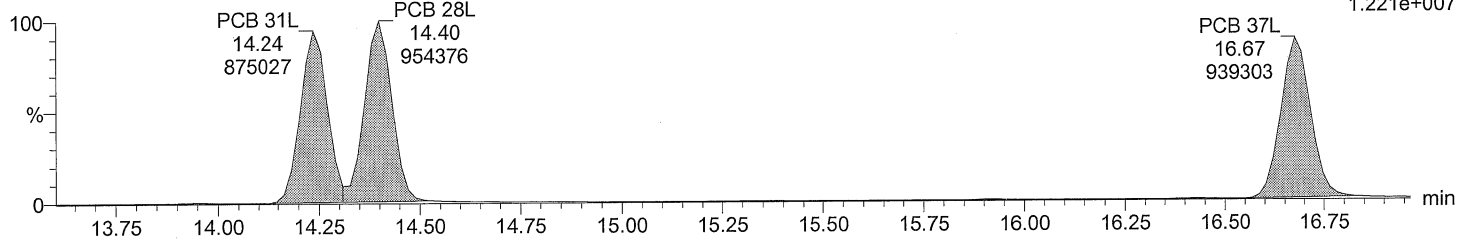
F3:SIR of 14 channels,EI+
257.9584
5.357e+006



Total TriCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

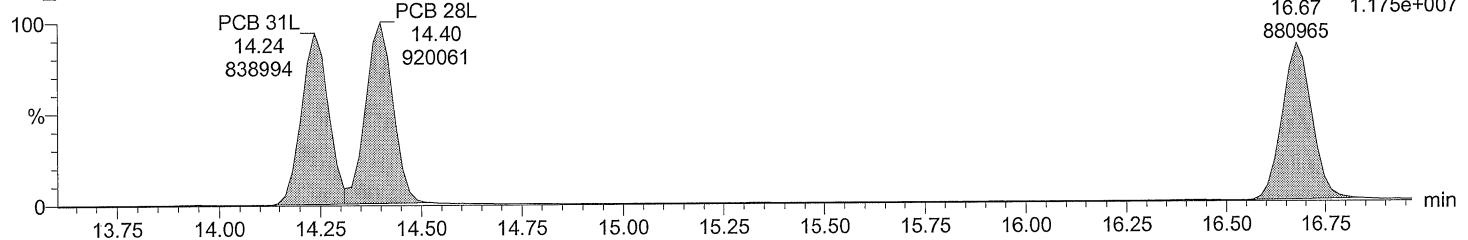
F3:SIR of 14 channels,EI+
268.0016
1.221e+007



Total TriCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F3:SIR of 14 channels,EI+
269.9986
1.175e+007



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Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

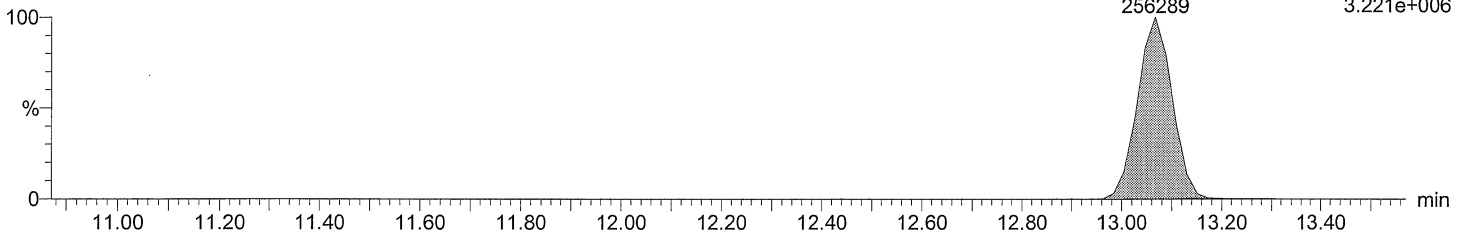
Time: 20:23:30

Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

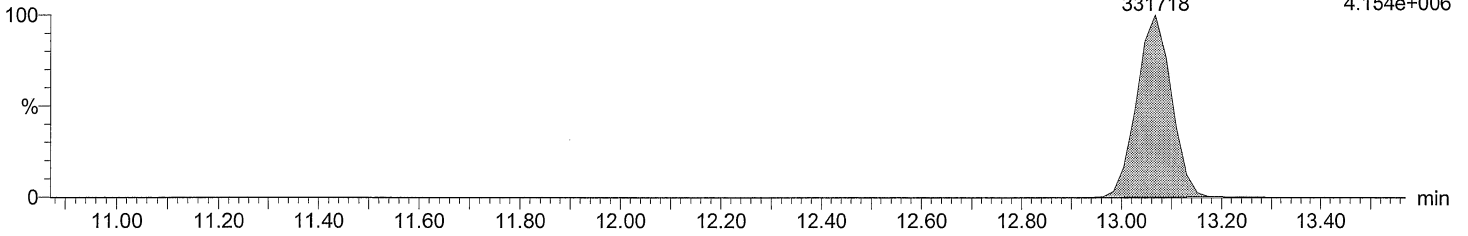
PCB 54 F2:SIR of 16 channels,EI+
13.07 289.9224
256289 3.221e+006



Total TeCB F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

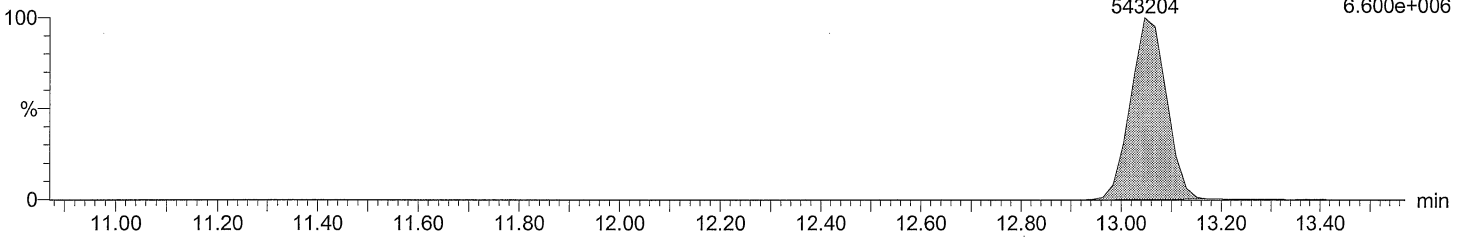
PCB 54 F2:SIR of 16 channels,EI+
13.07 291.9194
331718 4.154e+006



Total TeCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

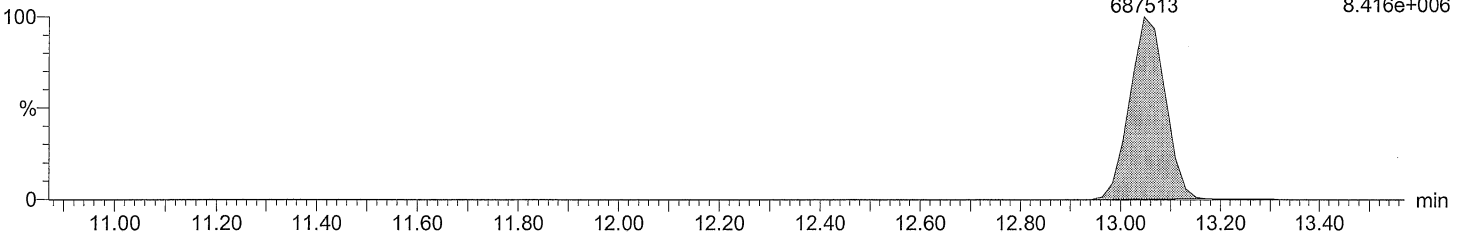
PCB 54L F2:SIR of 16 channels,EI+
13.05 301.9626
543204 6.600e+006



Total TeCB labeled F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 54L F2:SIR of 16 channels,EI+
13.05 303.9597
687513 8.416e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

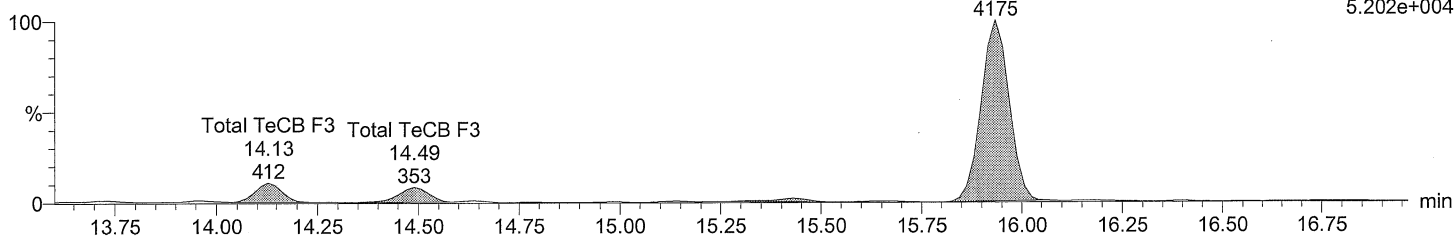
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 4
Date: 11-FEB-2016
Time: 20:23:30
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

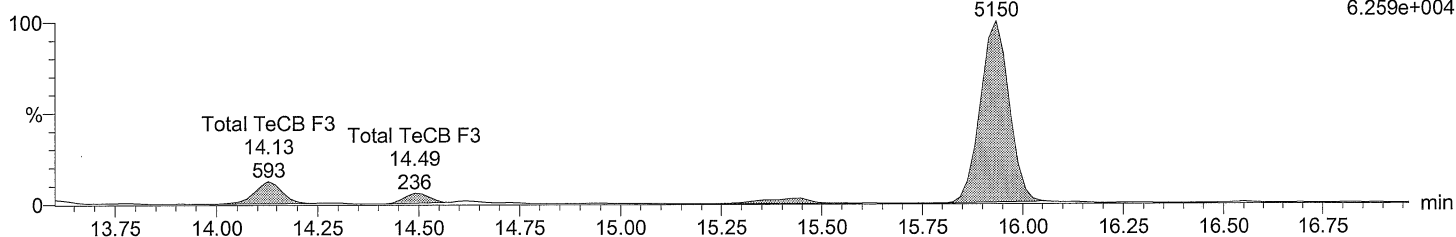
Total TeCB F3 F3:SIR of 14 channels,EI+
15.94 289.9224
4175 5.202e+004



Total TeCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

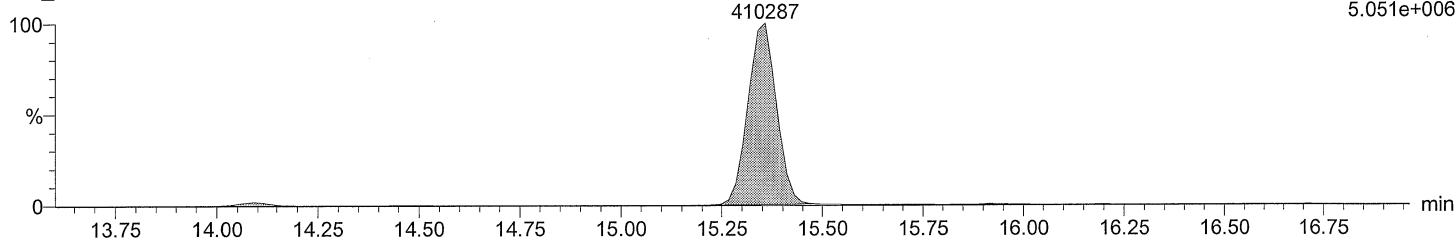
Total TeCB F3 F3:SIR of 14 channels,EI+
15.94 291.9194
5150 6.259e+004



Total TeCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

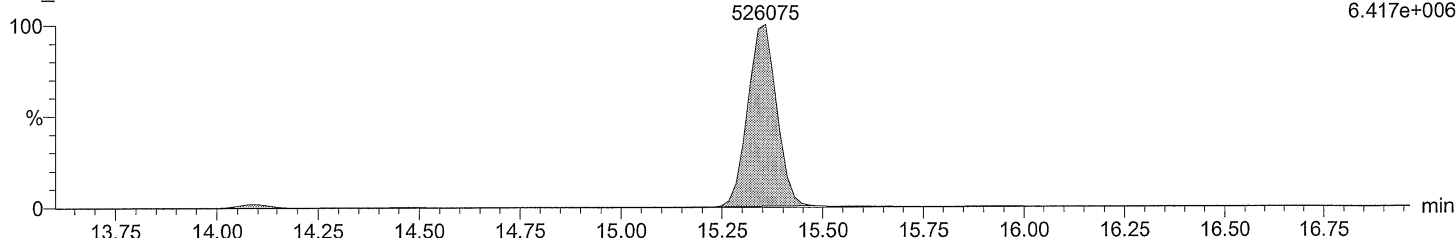
PCB 52L F3:SIR of 14 channels,EI+
15.36 301.9626
410287 5.051e+006



Total TeCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 52L F3:SIR of 14 channels,EI+
15.36 303.9597
526075 6.417e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

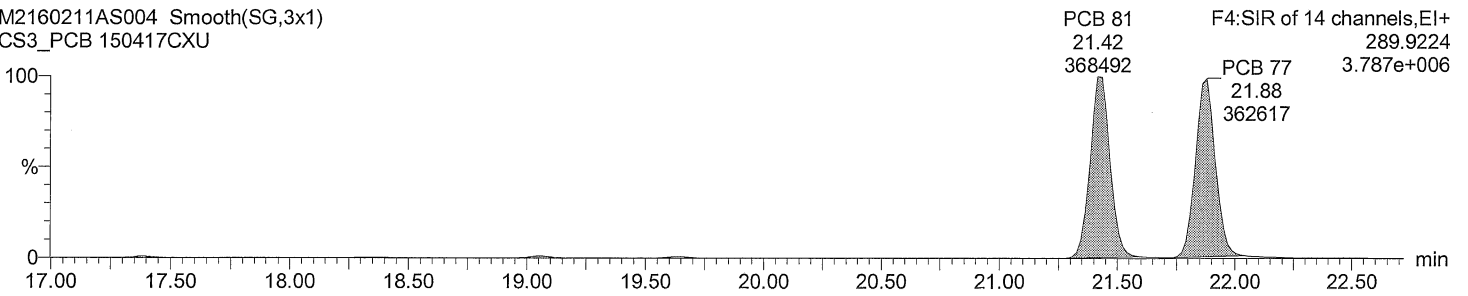
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

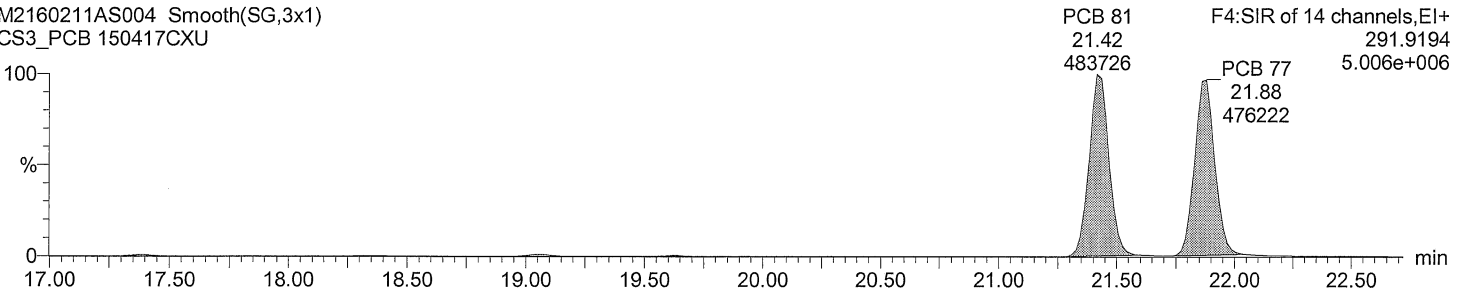
Total TeCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



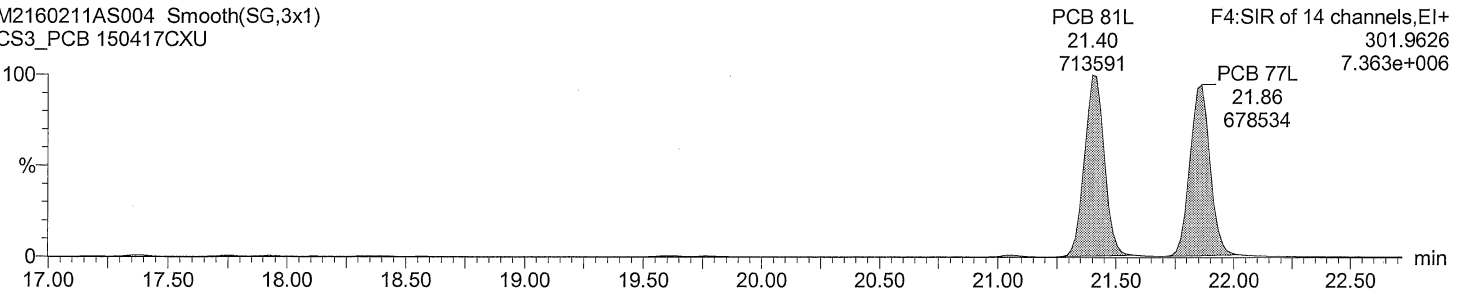
Total TeCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



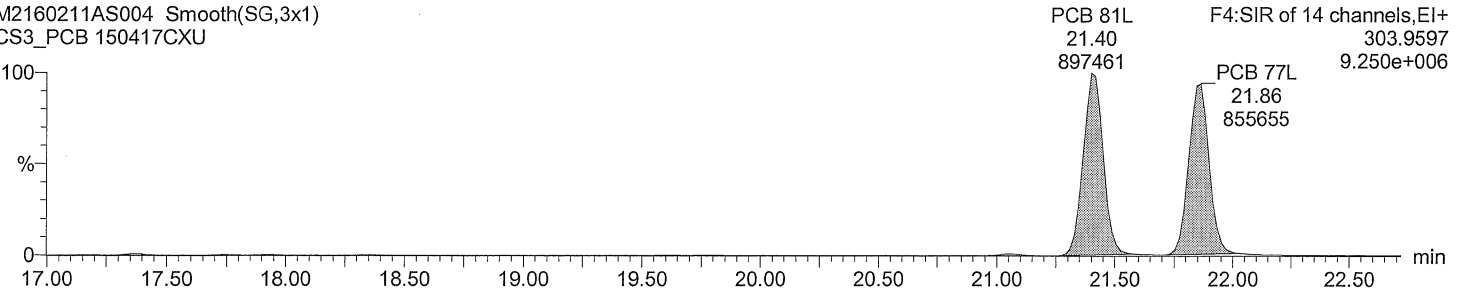
Total TeCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total TeCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

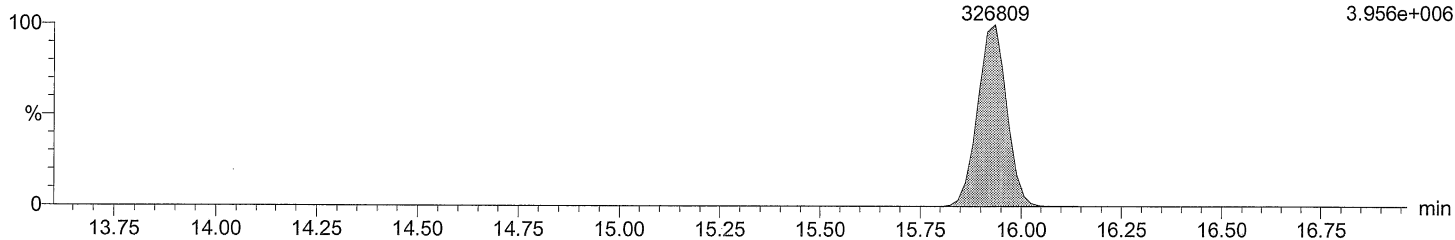
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 104
15.94
326809

F3:SIR of 14 channels,EI+
325.8805
3.956e+006

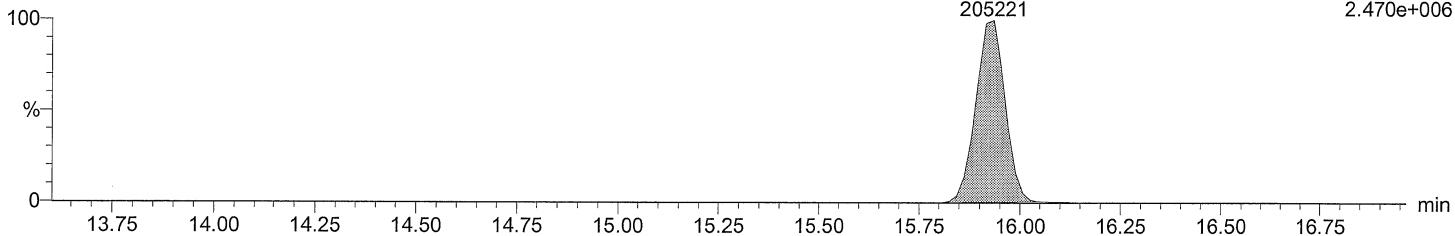


Total PeCB F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 104
15.94
205221

F3:SIR of 14 channels,EI+
327.8775
2.470e+006

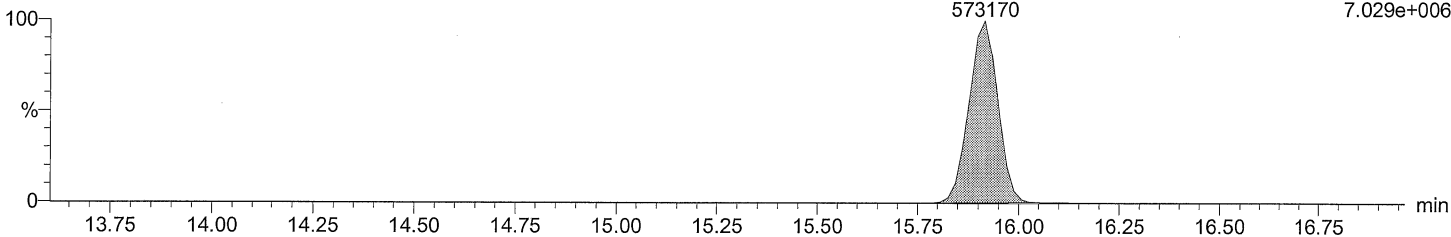


Total PeCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 104L
15.92
573170

F3:SIR of 14 channels,EI+
337.9207
7.029e+006

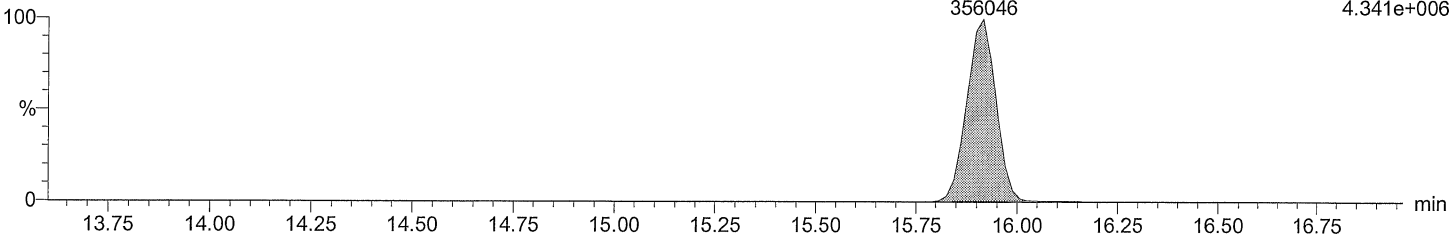


Total PeCB labeled F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 104L
15.92
356046

F3:SIR of 14 channels,EI+
339.9178
4.341e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

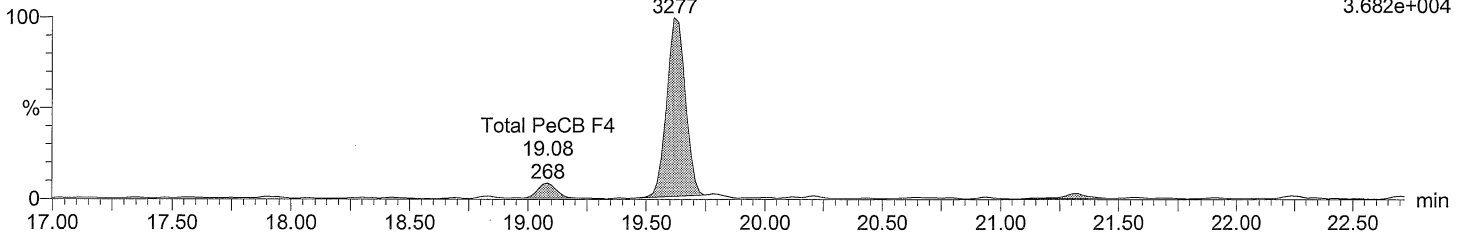
Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

Total PeCB F4
19.62
3277

F4:SIR of 14 channels, EI+
325.8805
3.682e+004

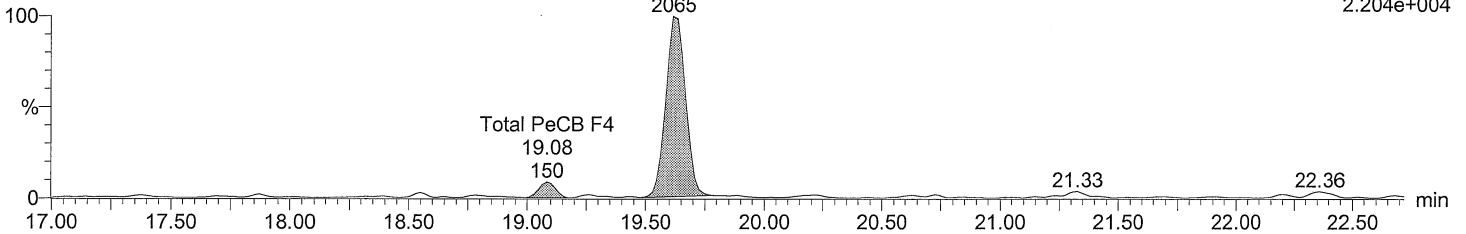


Total PeCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

Total PeCB F4
19.62
2065

F4:SIR of 14 channels, EI+
327.8775
2.204e+004



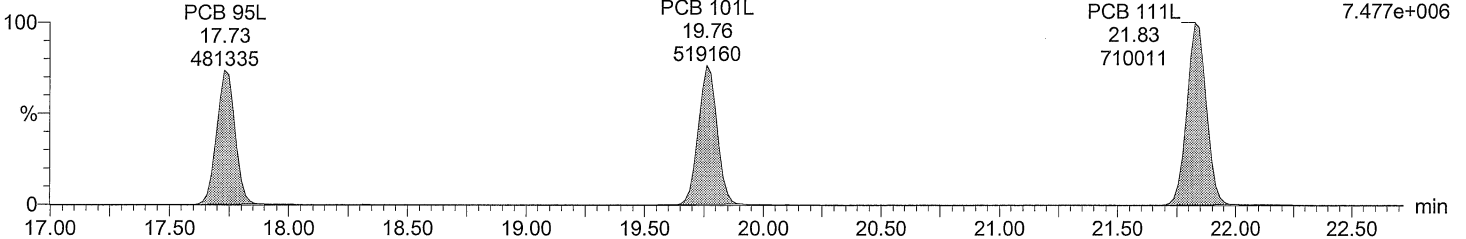
Total PeCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 101L
19.76
519160

PCB 111L
21.83
710011

F4:SIR of 14 channels, EI+
337.9207
7.477e+006



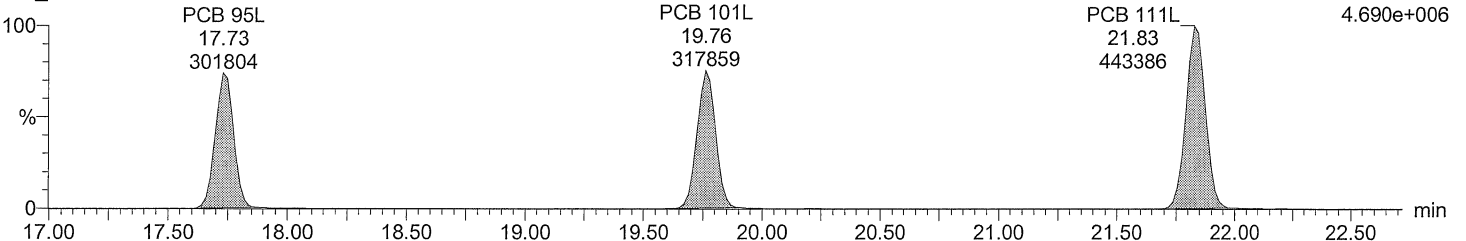
Total PeCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 101L
19.76
317859

PCB 111L
21.83
443386

F4:SIR of 14 channels, EI+
339.9178
4.690e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

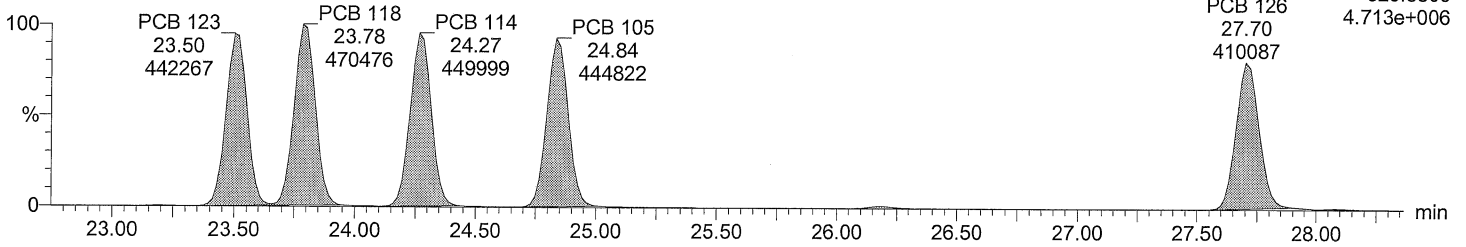
Time: 20:23:30

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS004 Smooth(SG,3x1)

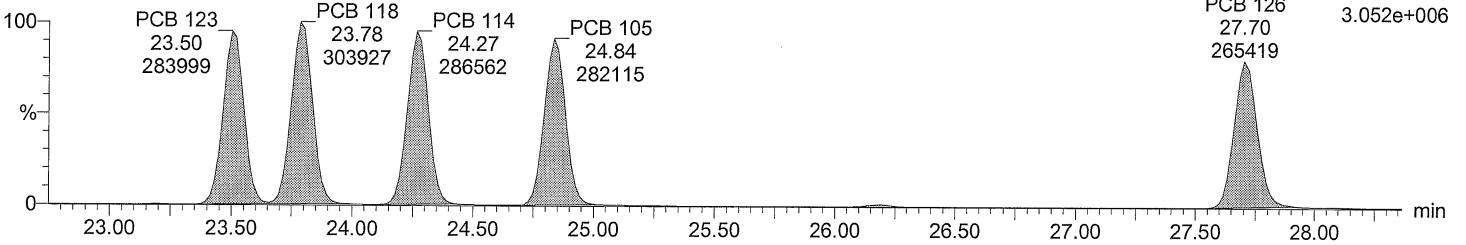
CS3_PCB 150417CXU



Total PeCB F5

M2160211AS004 Smooth(SG,3x1)

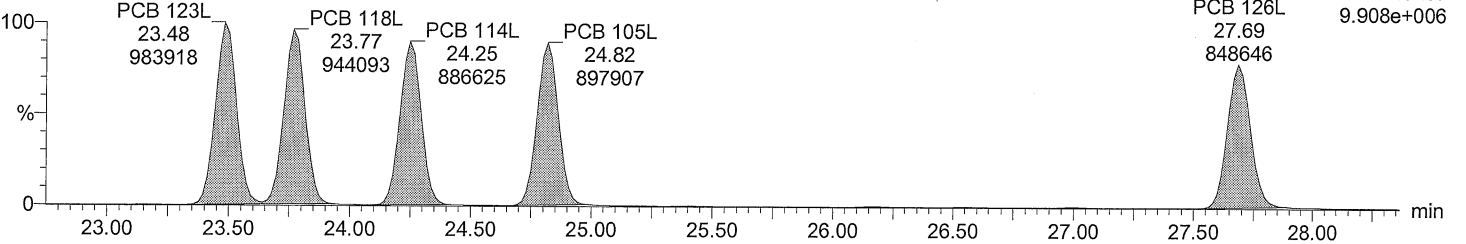
CS3_PCB 150417CXU



Total PeCB labeled F5

M2160211AS004 Smooth(SG,3x1)

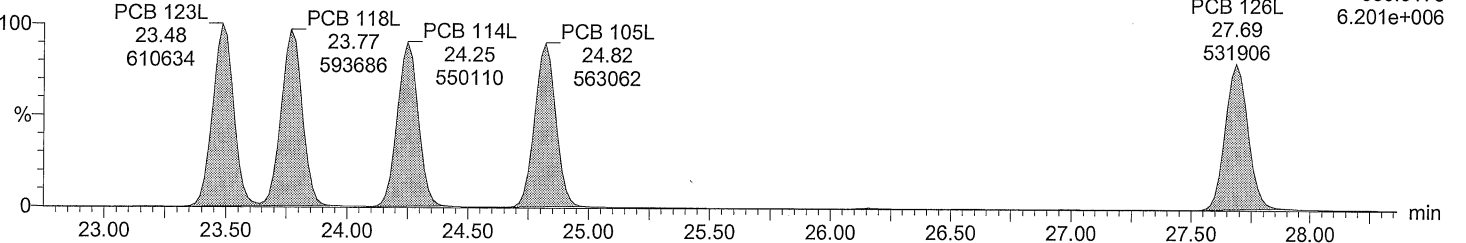
CS3_PCB 150417CXU



Total PeCB labeled F5

M2160211AS004 Smooth(SG,3x1)

CS3_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

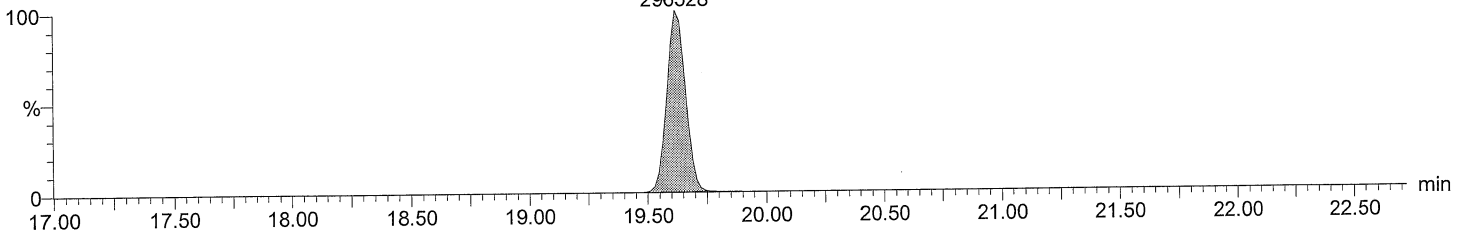
Instrument: Autospec-UltimaE

Total HxCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 155
19.62
296528

F4:SIR of 14 channels,EI+
359.8415
3.303e+006

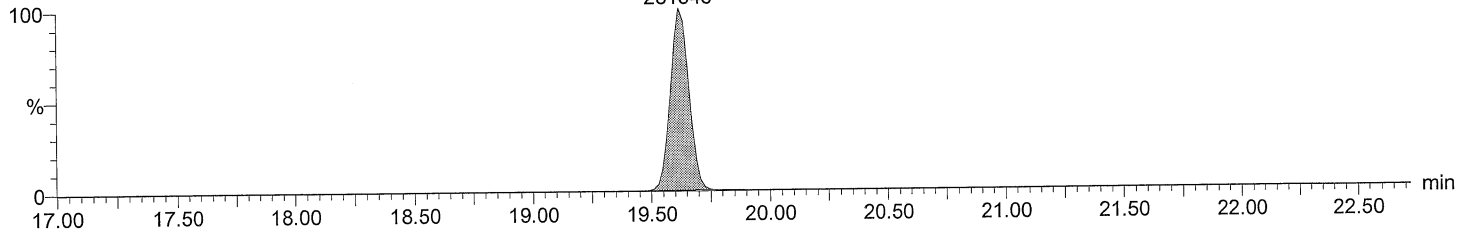


Total HxCB F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 155
19.62
231546

F4:SIR of 14 channels,EI+
361.8385
2.589e+006

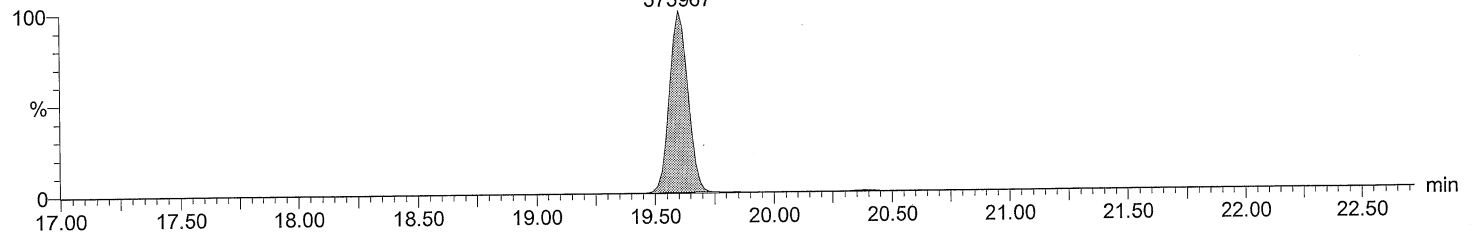


Total HxCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 155L
19.60
575967

F4:SIR of 14 channels,EI+
371.8817
6.451e+006

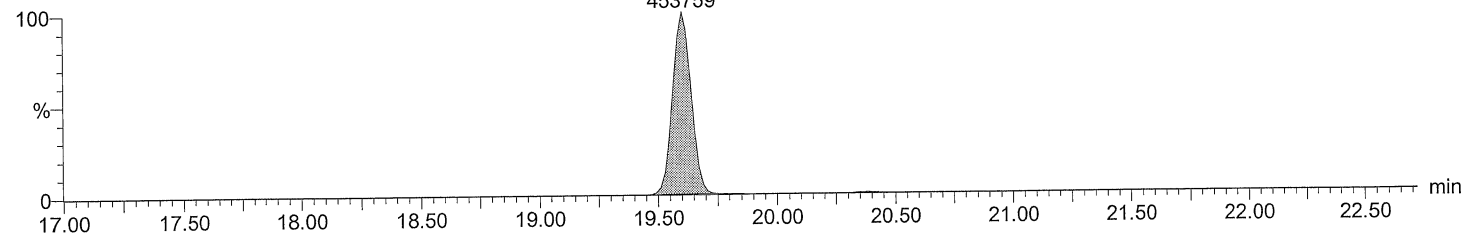


Total HxCB labeled F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 155L
19.60
453759

F4:SIR of 14 channels,EI+
373.8788
5.089e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

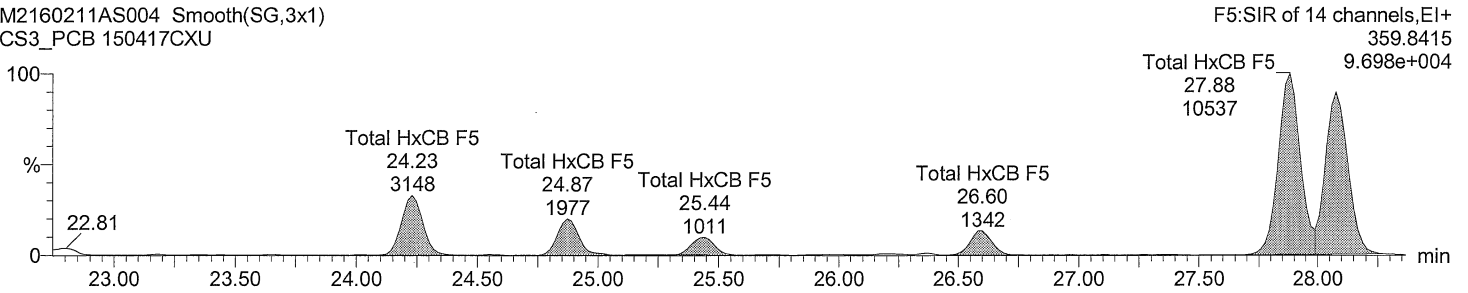
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

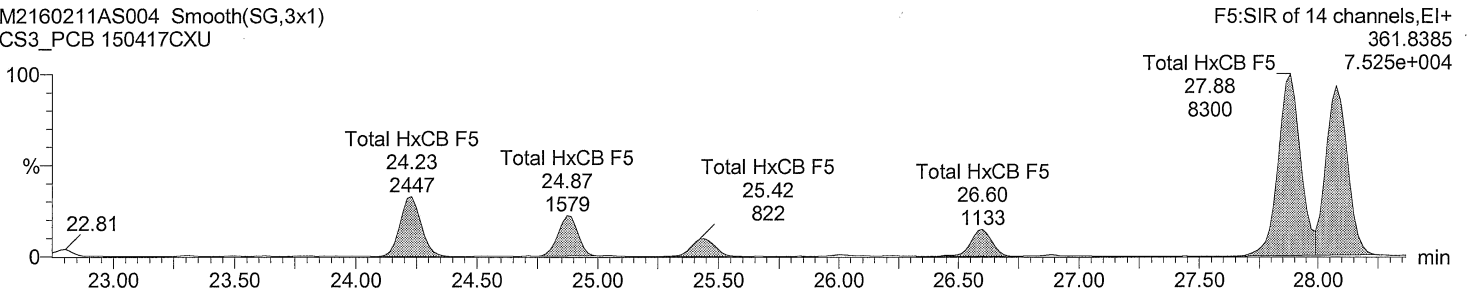
Total HxCB F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



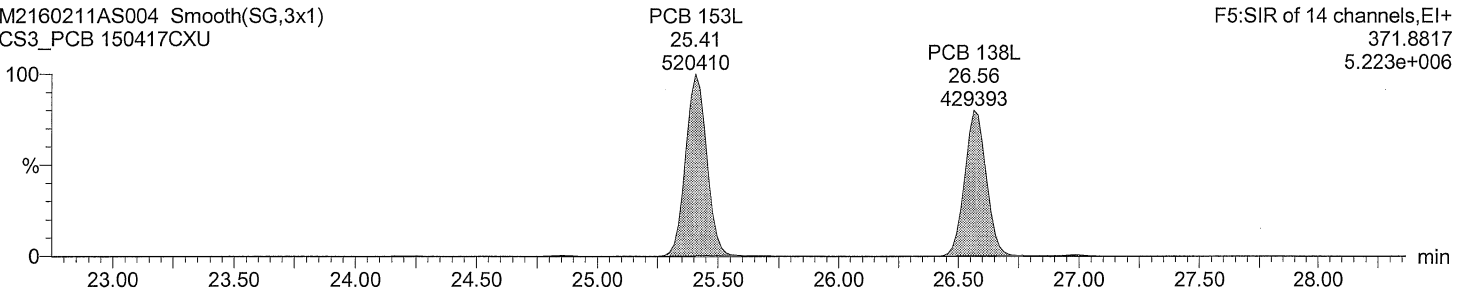
Total HxCB F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



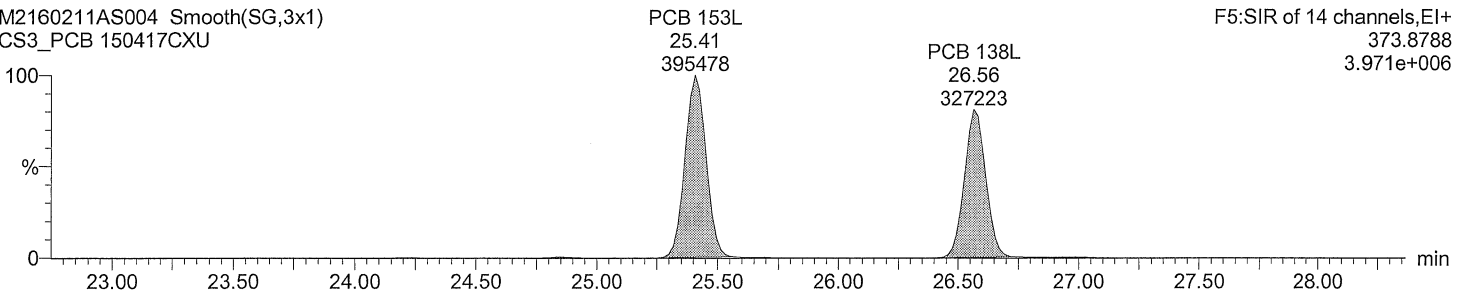
Total HxCB labeled F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total HxCB labeled F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

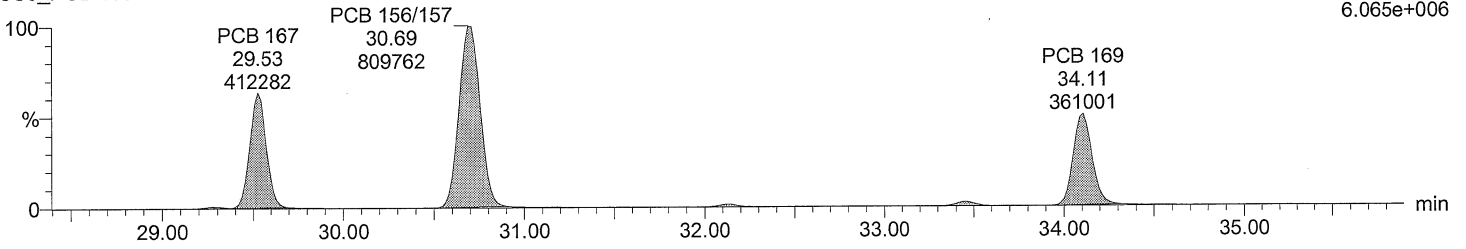
Time: 20:23:30

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

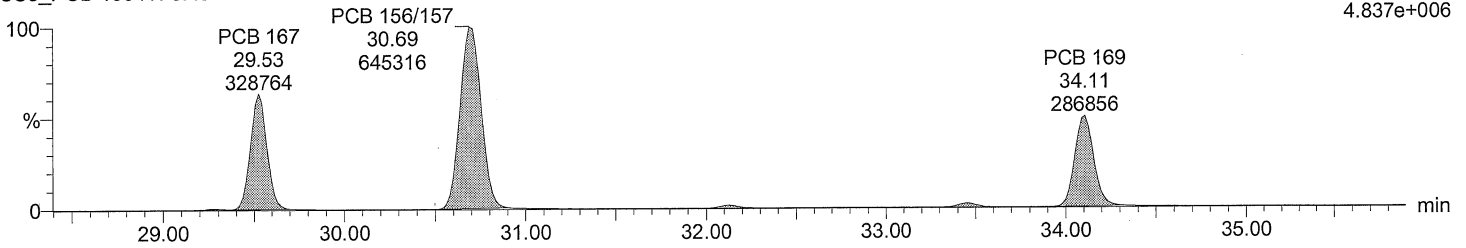
F6:SIR of 14 channels,EI+
359.8415
6.065e+006



Total HxCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

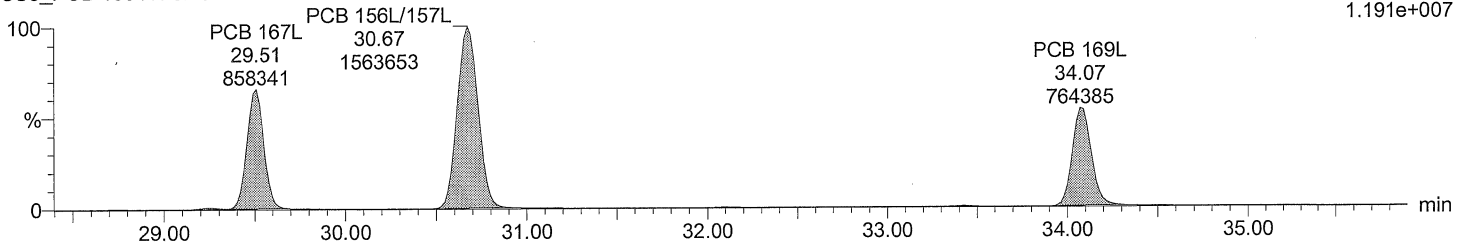
F6:SIR of 14 channels,EI+
361.8385
4.837e+006



Total HxCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

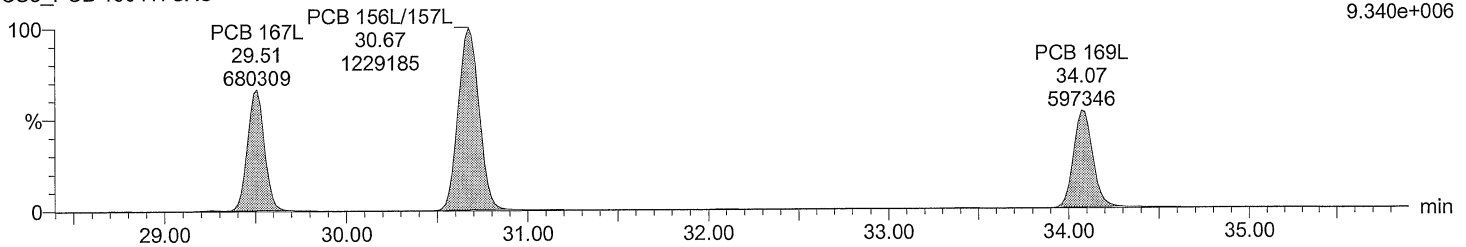
F6:SIR of 14 channels,EI+
371.8817
1.191e+007



Total HxCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F6:SIR of 14 channels,EI+
373.8788
9.340e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

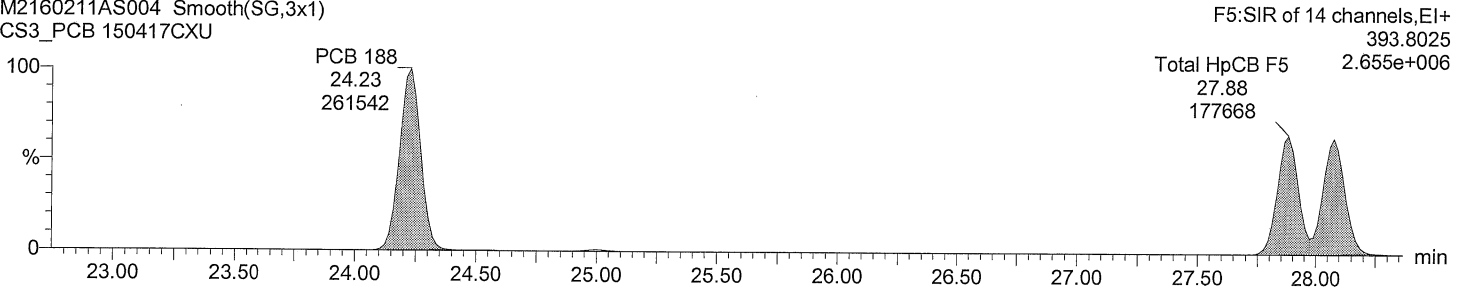
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

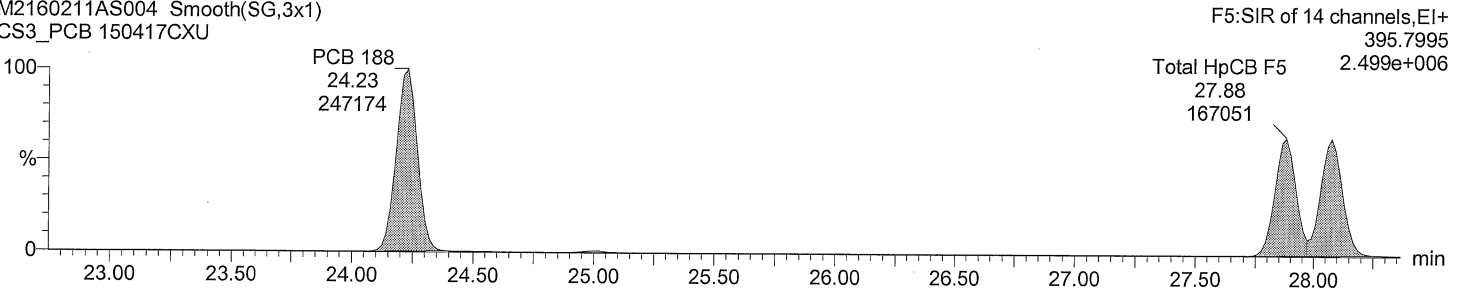
Total HpCB F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



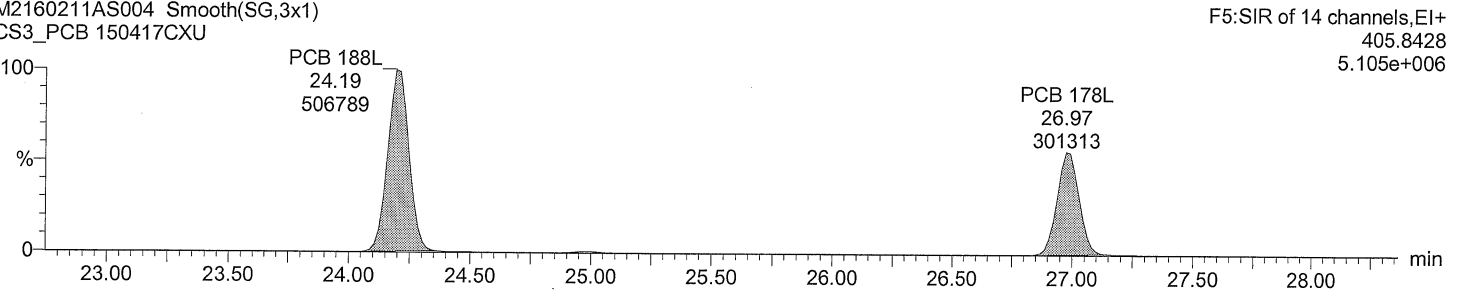
Total HpCB F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



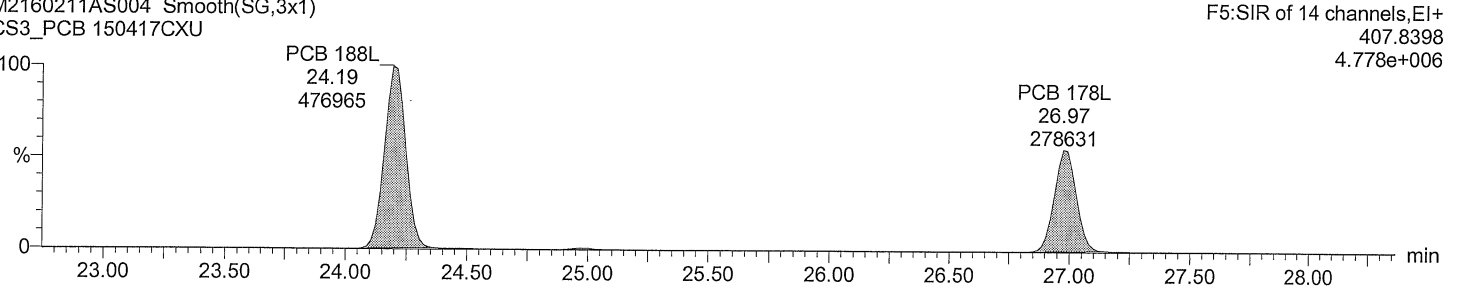
Total HpCB labeled F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Total HpCB labeled F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

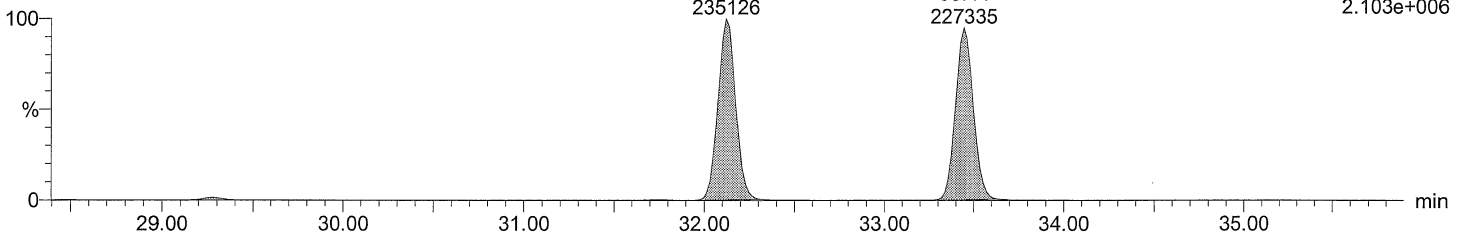
Total HpCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 193/180
32.12
235126

PCB 170
33.44
227335

F6:SIR of 14 channels,EI+
393.8025
2.103e+006



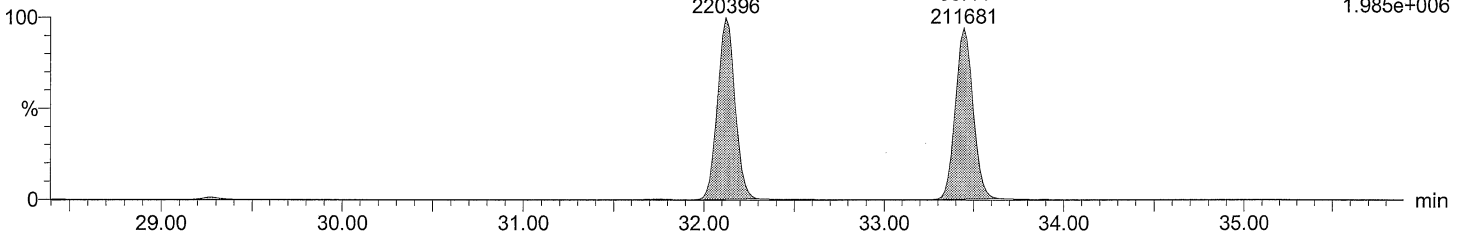
Total HpCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 193/180
32.12
220396

PCB 170
33.44
211681

F6:SIR of 14 channels,EI+
395.7995
1.985e+006



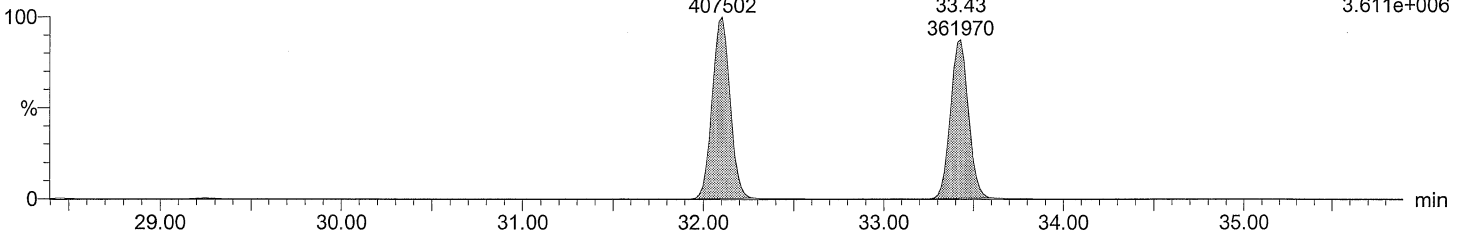
Total HpCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 180L
32.10
407502

PCB 170L
33.43
361970

F6:SIR of 14 channels,EI+
405.8428
3.611e+006



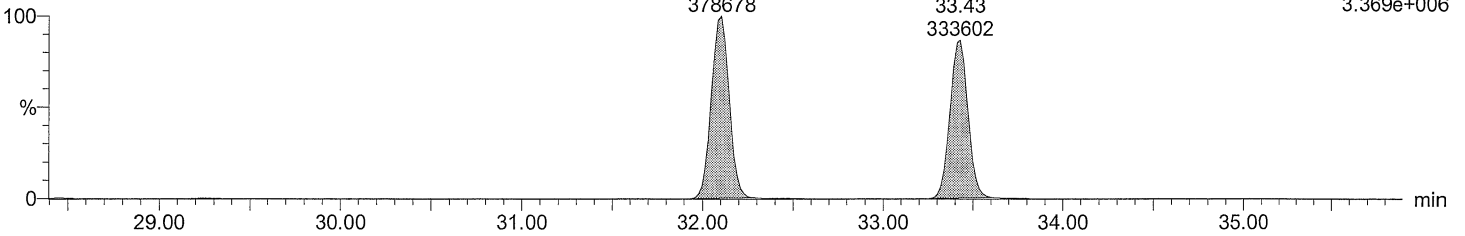
Total HpCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

PCB 180L
32.10
378678

PCB 170L
33.43
333602

F6:SIR of 14 channels,EI+
407.8398
3.369e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

Total HpCB F7

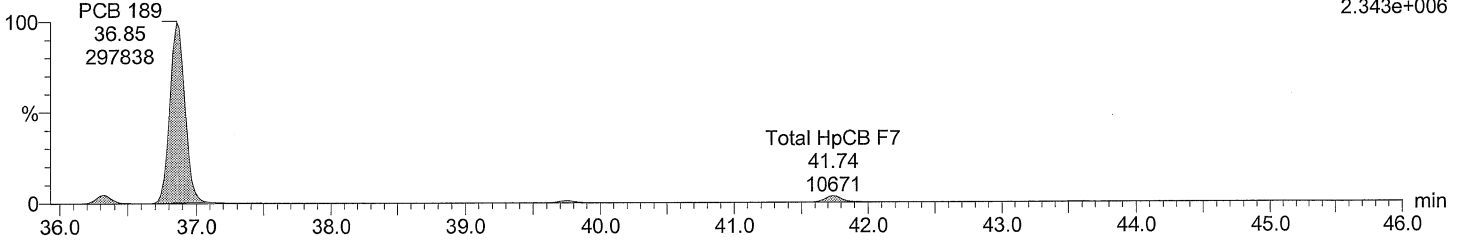
M2160211AS004 Smooth(SG,3x1)

CS3_PCB 150417CXU

F7:SIR of 18 channels,EI+

393.8025

2.343e+006



Total HpCB F7

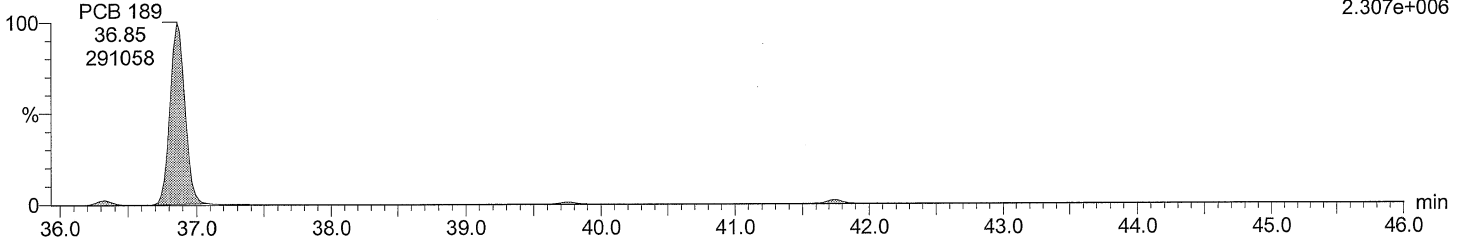
M2160211AS004 Smooth(SG,3x1)

CS3_PCB 150417CXU

F7:SIR of 18 channels,EI+

395.7995

2.307e+006



Total HpCB labeled F7

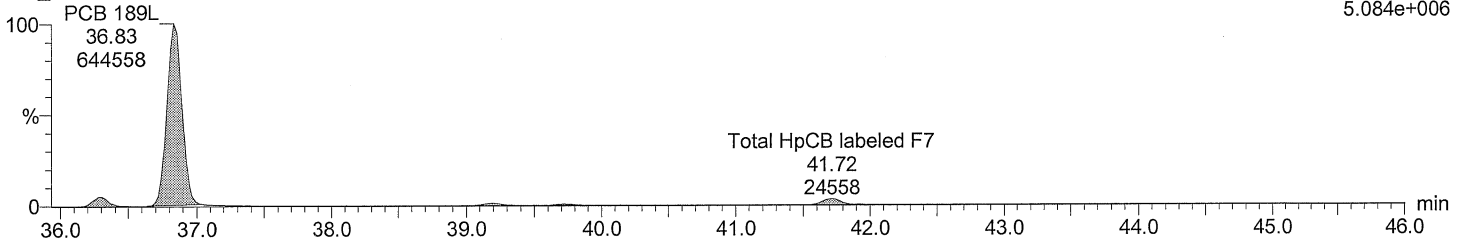
M2160211AS004 Smooth(SG,3x1)

CS3_PCB 150417CXU

F7:SIR of 18 channels,EI+

405.8428

5.084e+006



Total HpCB labeled F7

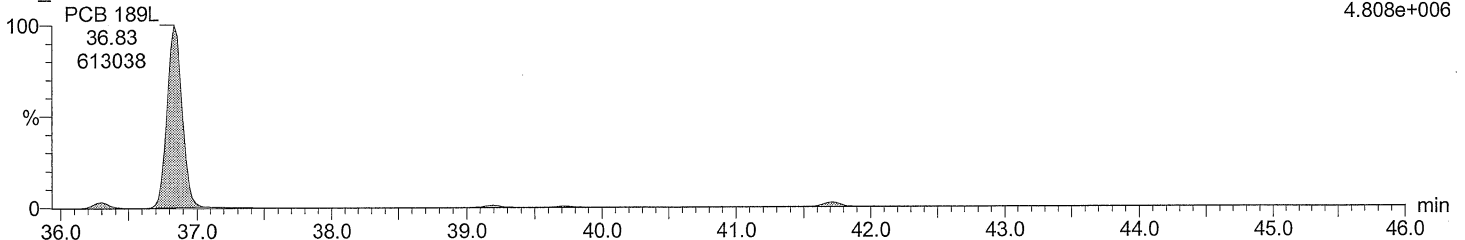
M2160211AS004 Smooth(SG,3x1)

CS3_PCB 150417CXU

F7:SIR of 18 channels,EI+

407.8398

4.808e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

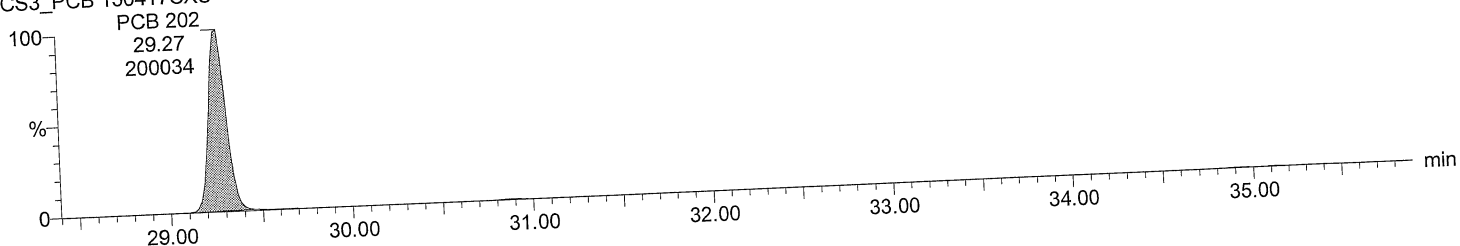
Time: 20:23:30

Instrument: Autospec-UltimaE

Total OcCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

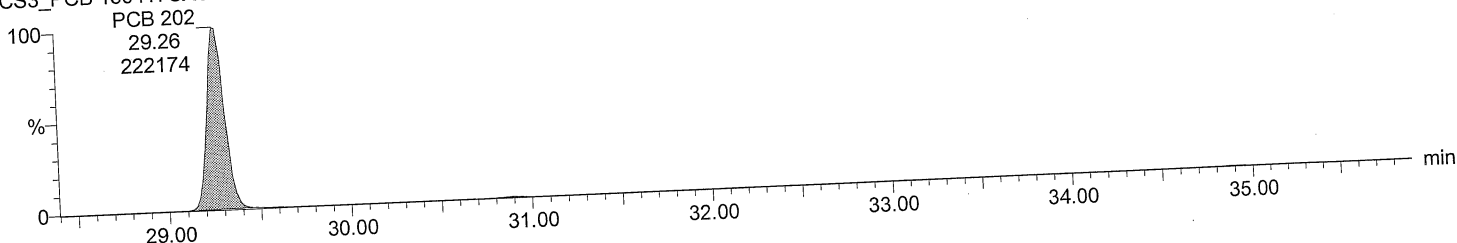
F6:SIR of 14 channels, EI+
427.7635
1.846e+006



Total OcCB F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

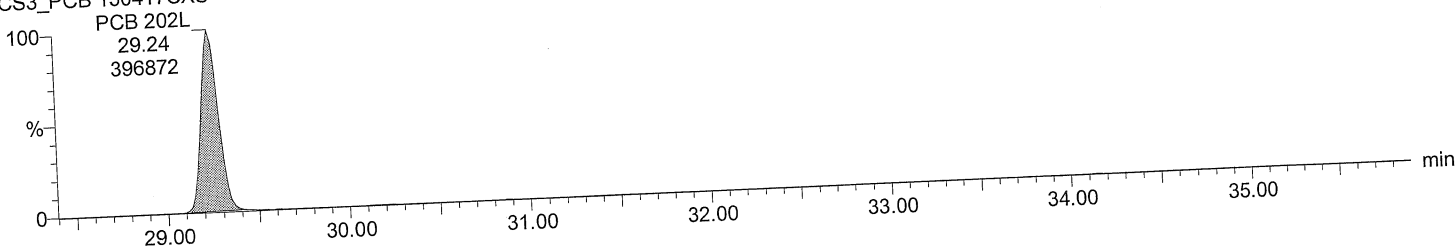
F6:SIR of 14 channels, EI+
429.7606
2.043e+006



Total OcCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

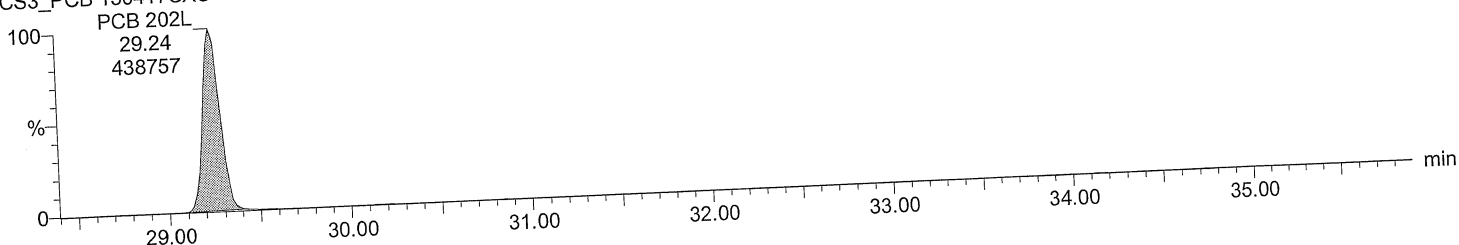
F6:SIR of 14 channels, EI+
439.8038
3.733e+006



Total OcCB labeled F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F6:SIR of 14 channels, EI+
441.8008
4.110e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

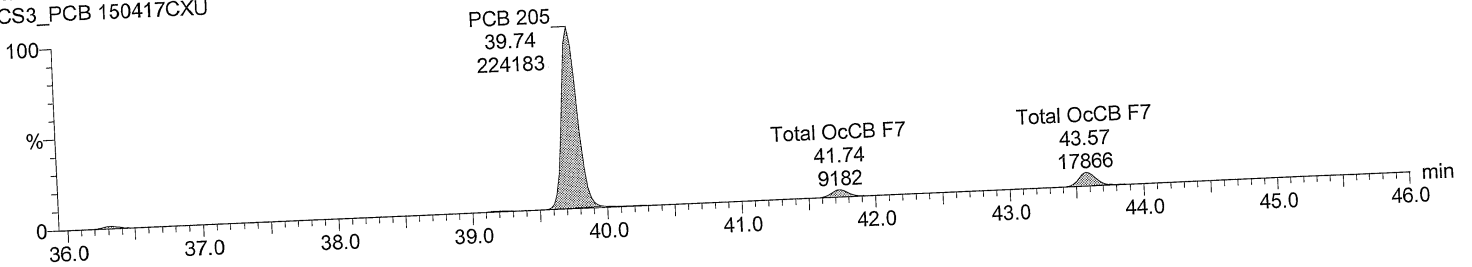
Time: 20:23:30

Instrument: Autospec-UltimaE

Total OcCB F7

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

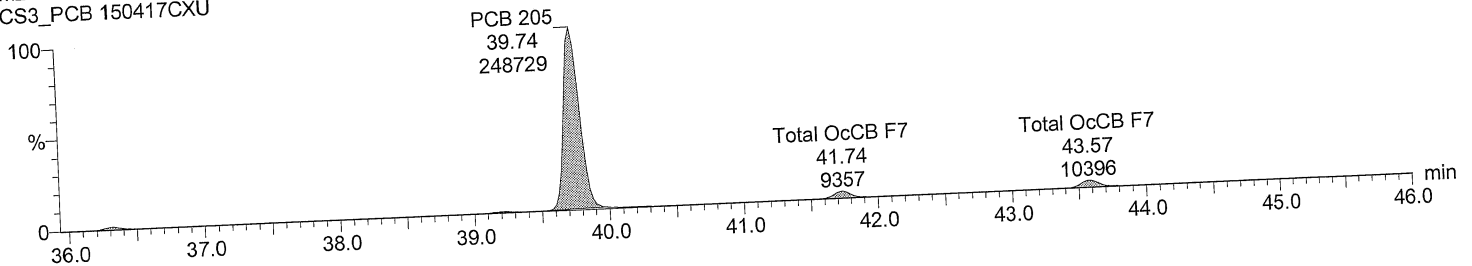
F7:SIR of 18 channels, EI+
427.7635
1.719e+006



Total OcCB F7

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

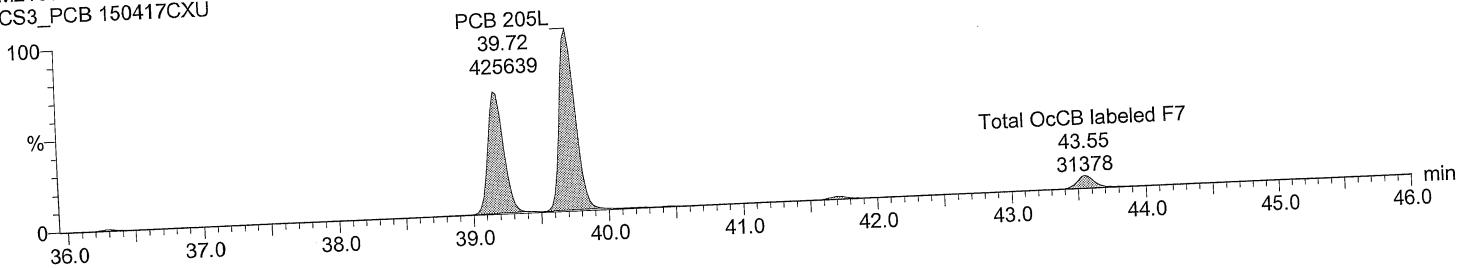
F7:SIR of 18 channels, EI+
429.7606
1.904e+006



Total OcCB labeled F7

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

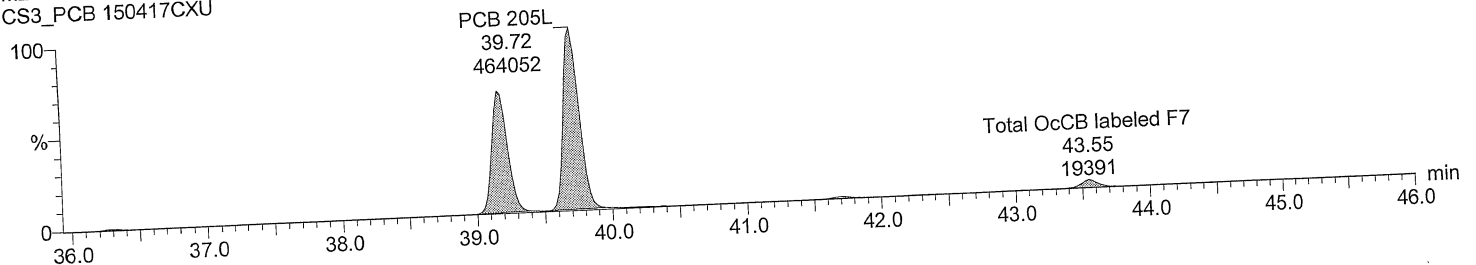
F7:SIR of 18 channels, EI+
439.8038
3.259e+006



Total OcCB labeled F7

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F7:SIR of 18 channels, EI+
441.8008
3.532e+006



Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

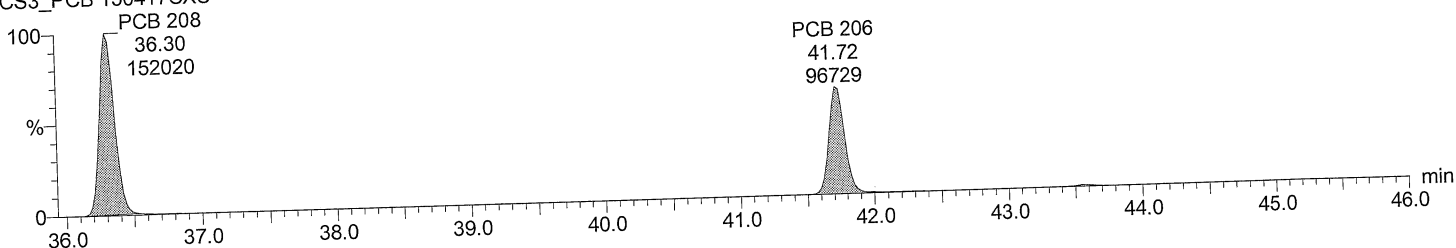
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 4
Date: 11-FEB-2016
Time: 20:23:30
Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS004 Smooth(SG,3x1)
 CS3_PCB 150417CXU

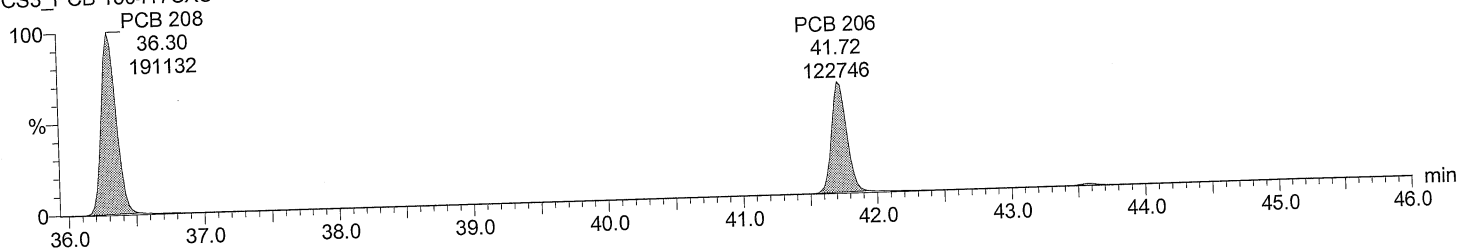
F7:SIR of 18 channels, EI+
 461.7246
 1.210e+006



Total NoCB F7

M2160211AS004 Smooth(SG,3x1)
 CS3_PCB 150417CXU

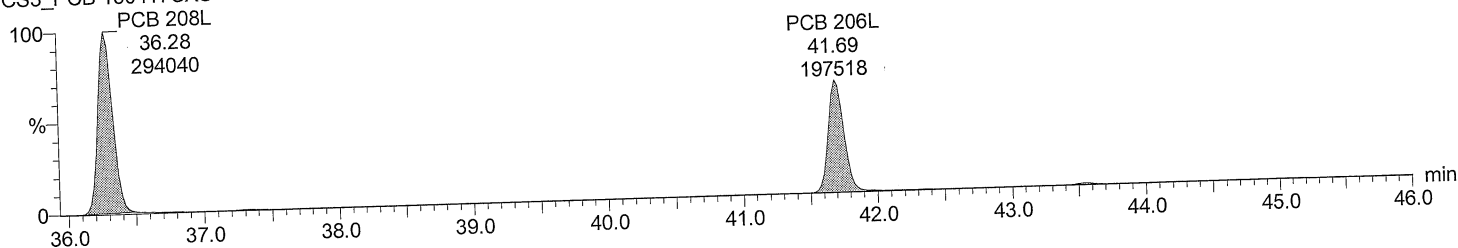
F7:SIR of 18 channels, EI+
 463.7216
 1.532e+006



Total NoCB labeled F7

M2160211AS004 Smooth(SG,3x1)
 CS3_PCB 150417CXU

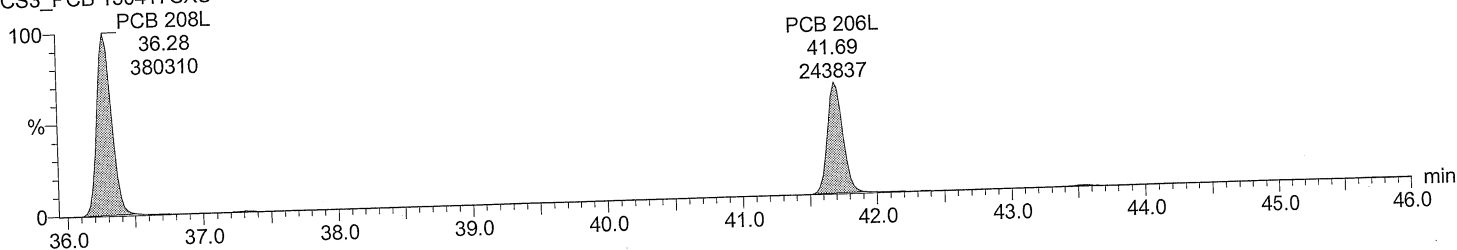
F7:SIR of 18 channels, EI+
 473.7648
 2.373e+006



Total NoCB labeled F7

M2160211AS004 Smooth(SG,3x1)
 CS3_PCB 150417CXU

F7:SIR of 18 channels, EI+
 475.7619
 3.053e+006



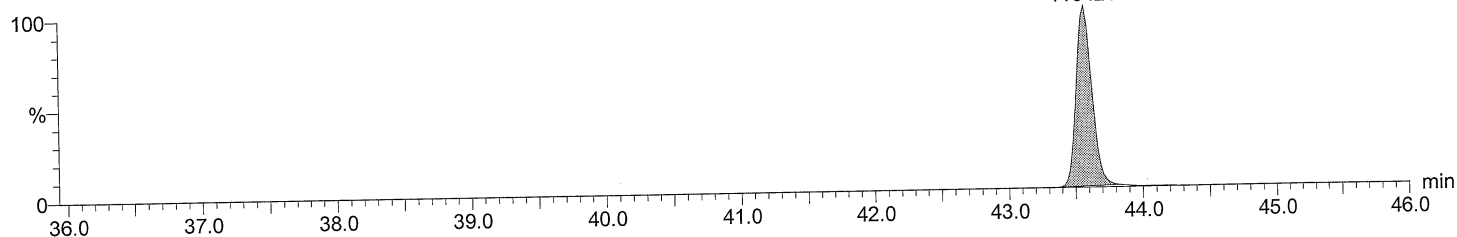
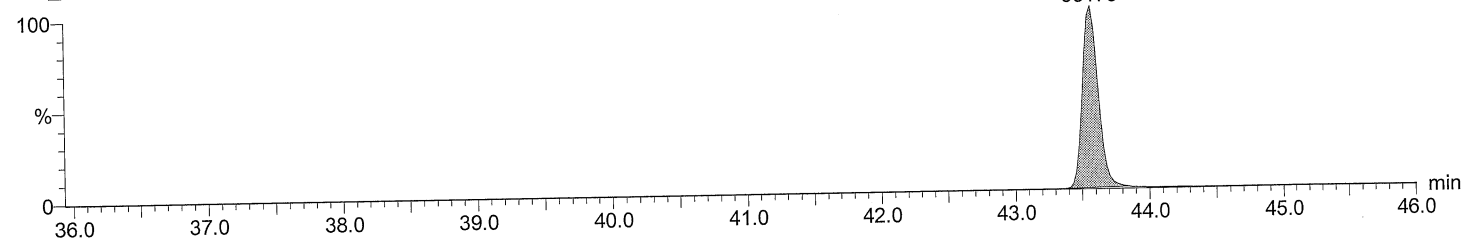
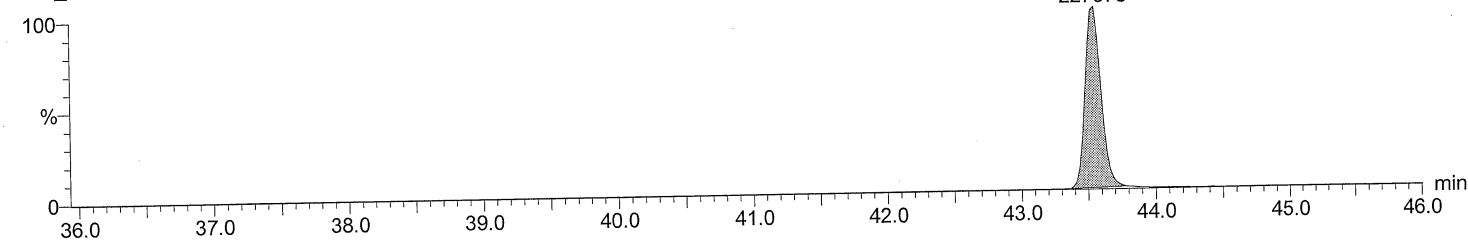
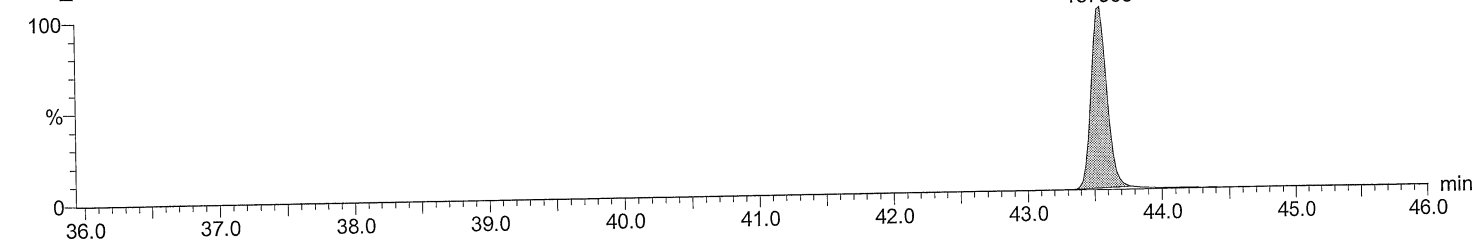
Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU**Vial: 4****Date: 11-FEB-2016****Time: 20:23:30****Instrument: Autospec-UltimaE****Total DeCB F7**M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXUPCB 209
43.57
113421
F7:SIR of 18 channels,EI+
497.6826
8.456e+005**Total DeCB F7**M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXUPCB 209
43.57
93173
F7:SIR of 18 channels,EI+
499.6797
6.948e+005**Total DeCB labeled F7**M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXUPCB 209L
43.55
227378
F7:SIR of 18 channels,EI+
509.7229
1.684e+006**Total DeCB labeled F7**M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXUPCB 209L
43.55
187368
F7:SIR of 18 channels,EI+
511.7199
1.386e+006

Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

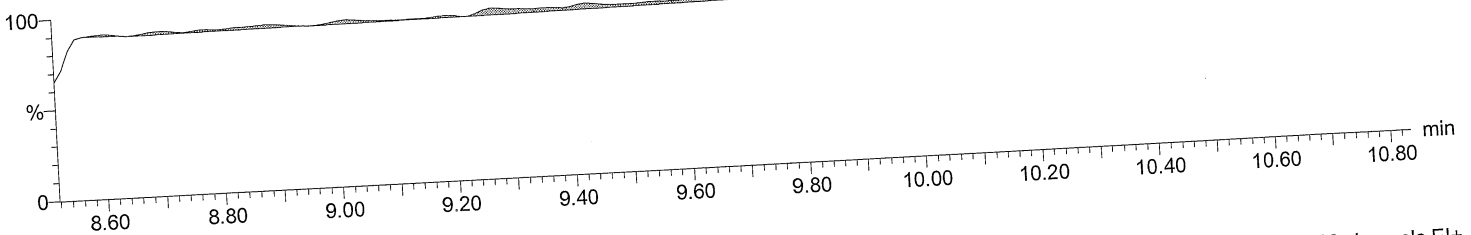
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU
Vial: 4
Date: 11-FEB-2016
Time: 20:23:30
Instrument: Autospec-UltimaE

lockmass F1

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

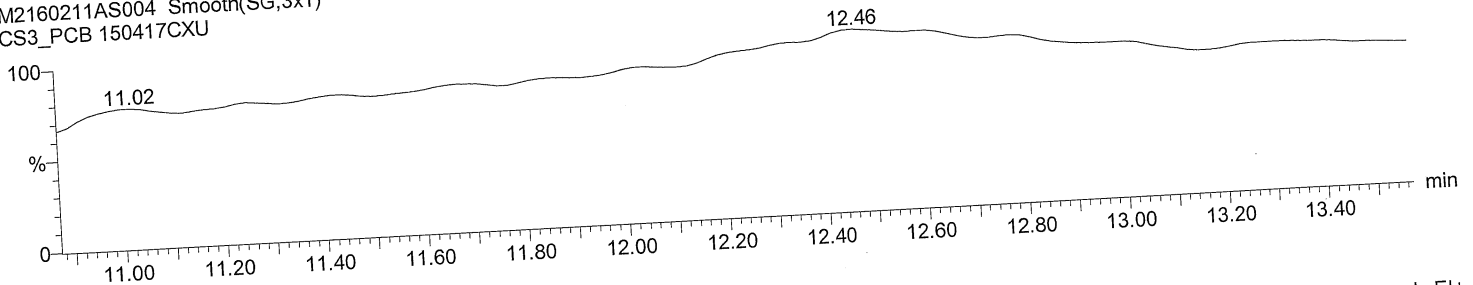
F1:SIR of 10 channels, EI+
218.9856
4.372e+006



lockmass F2

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

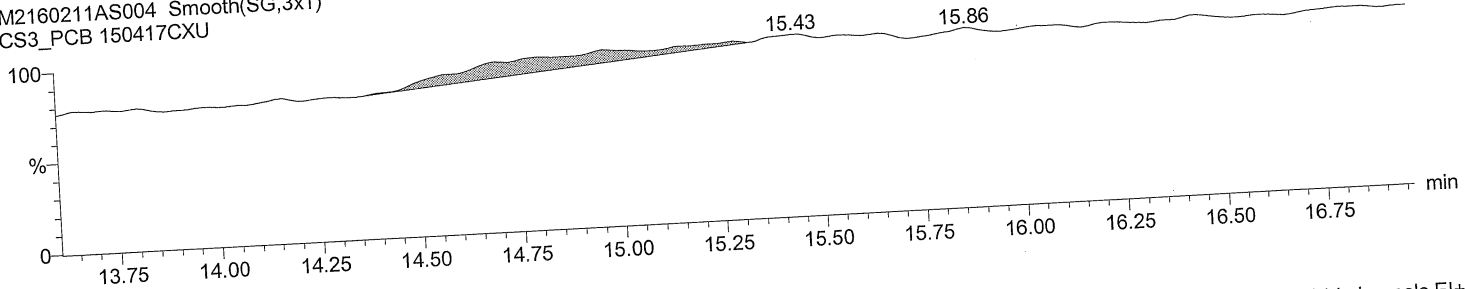
F2:SIR of 16 channels, EI+
242.9856
1.760e+006



lockmass F3

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

F3:SIR of 14 channels, EI+
292.9824
1.368e+006

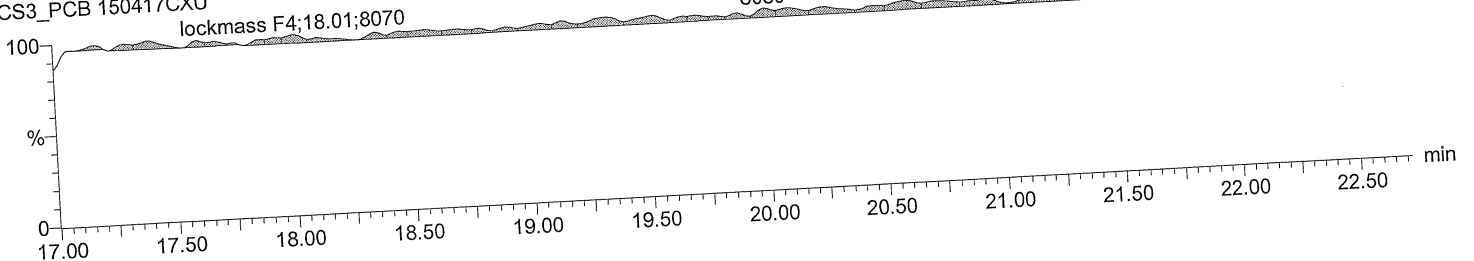


lockmass F4

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU

lockmass F4	lockmass F4	lockmass F4
19.99	20.60	21.15
8080	13150	14459

F4:SIR of 14 channels, EI+
330.9792
2.014e+006



Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS3_PCB 150417CXU

Vial: 4

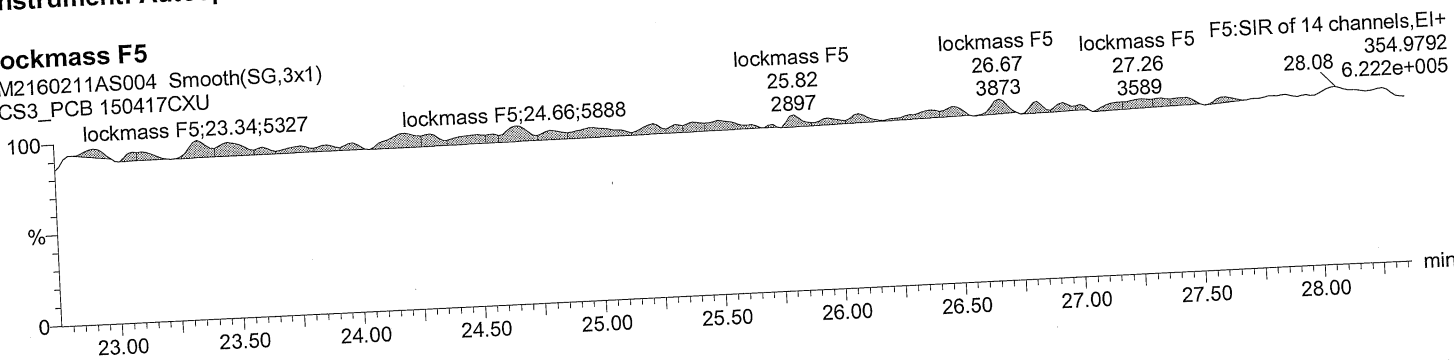
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

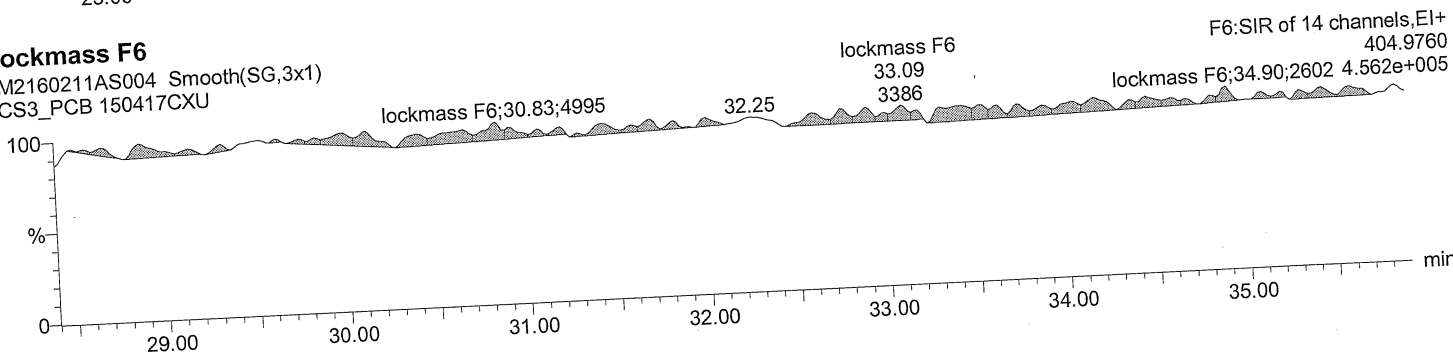
lockmass F5

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



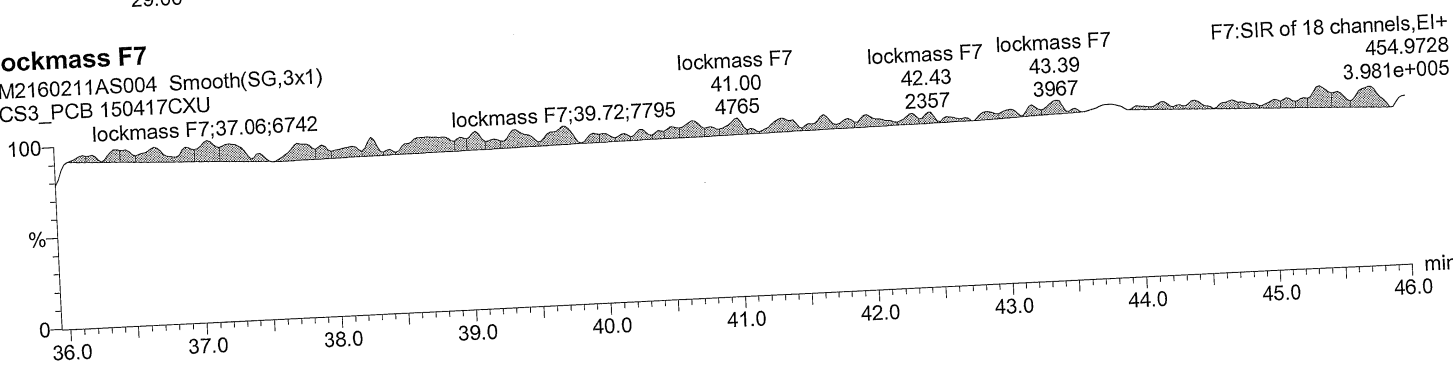
lockmass F6

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



lockmass F7

M2160211AS004 Smooth(SG,3x1)
CS3_PCB 150417CXU



Quantify Sample Summary Report

MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

Description: CS4_PCB 150417CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1 PCB 1	8.99	1.001	6550439	2069035	3.17	YES	bb	411.493	2.9	103	29	1.113
2 PCB 3	10.19	1.001	7116279	2243259	3.17	YES	bd	408.963	2.2	102	30	1.103
3 PCB 4	10.30	1.001	3221299	2039197	1.58	YES	bb	428.272	7.1	107	31	1.021
4 PCB 15	12.93	1.000	5439488	3609118	1.51	YES	bb	408.629	2.2	102	32	0.889
5 PCB 19	11.68	1.002	2797092	2687528	1.04	YES	bb	438.071	9.5	110	33	0.984
6 PCB 37	16.68	1.000	4881579	4756470	1.03	YES	bb	414.836	3.7	104	34	0.939
7 PCB 54	13.06	1.000	2504893	3178847	0.79	YES	bb	426.236	6.6	107	35	0.970
8 PCB 81	21.42	1.001	4168597	5424468	0.77	YES	bb	417.133	4.3	104	36	1.071
9 PCB 77	21.87	1.001	4151869	5430192	0.76	YES	bb	408.553	2.1	102	37	1.100
10 PCB 104	15.92	1.001	3560043	2245549	1.59	YES	bb	425.597	6.4	106	38	1.164
11 PCB 123	23.51	1.001	4991459	3240873	1.54	YES	bd	414.791	3.7	104	39	0.928
12 PCB 118	23.79	1.001	5398503	3487368	1.55	YES	db	413.823	3.5	103	40	1.015
13 PCB 114	24.27	1.001	5143658	3341782	1.54	YES	bb	412.605	3.2	103	41	1.042
14 PCB 105	24.84	1.001	5148796	3345915	1.54	YES	bb	414.228	3.6	104	42	1.011
15 PCB 126	27.71	1.001	4804622	3086473	1.56	YES	bb	406.492	1.6	102	43	0.992
16 PCB 155	19.63	1.001	3287727	2559146	1.28	YES	bb	428.124	7.0	107	44	1.067
17 PCB 167	29.53	1.001	4712087	3797114	1.24	YES	db	411.264	2.8	103	45	0.972
18 PCB 156/157	30.70	1.001	9231766	7358172	1.25	YES	bb	828.397	3.5	104	46	1.053
19 PCB 169	34.10	1.000	4266378	3412929	1.25	YES	bb	410.924	2.7	103	47	0.981
20 PCB 188	24.22	1.001	2940792	2778197	1.06	YES	bb	423.250	5.8	106	48	1.071
21 PCB 193/180	32.13	1.001	2735297	2566233	1.07	YES	bb	419.227	4.8	105	49	1.194
22 PCB 170	33.45	1.001	2620049	2469179	1.06	YES	bb	410.905	2.7	103	50	1.306
23 PCB 189	36.87	1.001	3438757	3354969	1.02	YES	bb	408.337	2.1	102	51	0.963
24 PCB 202	29.26	1.001	2319246	2582348	0.90	YES	bb	429.030	7.3	107	52	1.059
25 PCB 205	39.73	1.001	2554029	2893341	0.88	YES	bb	402.344	0.6	101	53	1.097
26 PCB 208	36.32	1.001	1774786	2240815	0.79	YES	bb	421.004	5.3	105	54	1.077
27 PCB 206	41.73	1.000	1150769	1458308	0.79	YES	bb	410.427	2.6	103	55	1.053
28 PCB 209	43.56	1.000	1335343	1110428	1.20	YES	bb	404.862	1.2	101	56	1.053
29 PCB 1L	8.98	0.803	1477260	458950	3.22	YES	bb	93.492	-6.5	93	63	0.770
30 PCB 3L	10.17	0.910	1613074	508655	3.17	YES	bb	99.015	-1.0	99	63	0.844
31 PCB 4L	10.28	0.920	788956	498643	1.58	YES	bb	94.388	-5.6	94	63	0.512
32 PCB 15L	12.93	1.157	1555942	987799	1.58	YES	bb	94.182	-5.8	94	63	1.012
33 PCB 19L	11.66	1.043	718727	674450	1.07	YES	bb	95.838	-4.2	96	63	0.554
34 PCB 37L	16.68	1.087	1317951	1247820	1.06	YES	bb	103.563	3.6	104	64	2.057
35 PCB 54L	13.06	0.851	644699	819752	0.79	YES	bb	103.323	3.3	103	64	1.796
36 PCB 81L	21.41	1.395	991348	1248035	0.79	YES	bb	90.514	-9.5	91	64	1.174
37 PCB 77L	21.85	1.424	965827	1211370	0.80	YES	bb	103.323	3.3	103	64	1.796
38 PCB 104L	15.91	0.805	771386	475118	1.62	YES	bb	104.096	4.1	104	64	1.746
39 PCB 123L	23.49	1.188	1371077	847769	1.62	YES	bb	97.227	-2.8	97	65	1.124
40 PCB 118L	23.77	1.203	1344973	842785	1.60	YES	bd	103.319	3.3	103	65	2.000
41 PCB 114L	24.26	1.227	1257976	777668	1.62	YES	db	103.478	3.5	103	65	1.972
42 PCB 105L	24.83	1.256	1295249	804796	1.61	YES	bb	103.505	3.5	104	65	1.835
43 PCB 126L	27.69	1.401	1219284	768477	1.59	YES	bb	103.875	3.9	104	65	1.893
44 PCB 155L	19.61	0.738	769906	600460	1.28	YES	bb	103.245	3.2	103	65	1.792
45 PCB 167L	29.50	1.110	1225793	961673	1.27	YES	bb	95.180	-4.8	95	66	1.336
46 PCB 156L/157L	30.68	1.155	2200271	1737788	1.27	YES	db	101.069	1.1	101	66	2.132
47 PCB 169L	34.08	1.283	1100319	857688	1.28	YES	bb	199.849	-0.1	100	66	1.919
48 PCB 188L	24.20	0.911	690295	645003	1.07	YES	bb	101.191	1.2	101	66	1.909
								97.916	-2.1	98	66	1.302

Quantify Sample Summary Report

MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

Description: CS4_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
49	PCB 180L	32.09	0.819	575201	535208	1.08	YES	bb	100.439	0.4	100	67	1.354
50	PCB 170L	33.42	0.853	508432	466059	1.09	YES	bb	100.725	0.7	101	67	1.189
51	PCB 189L	36.84	0.940	909356	853586	1.07	YES	bb	99.682	-0.3	100	67	2.150
52	PCB 202L	29.25	0.746	553734	603124	0.92	YES	bb	99.415	-0.6	99	67	1.411
53	PCB 205L	39.71	1.013	595527	645949	0.92	YES	bb	98.892	-1.1	99	67	1.514
54	PCB 208L	36.29	0.926	407204	524739	0.78	YES	bb	99.768	-0.2	100	67	1.137
55	PCB 206L	41.71	1.064	273872	345354	0.79	YES	bb	99.445	-0.6	99	67	0.755
56	PCB 209L	43.54	1.111	317324	263610	1.20	YES	bb	97.832	-2.2	98	67	0.709
57	PCB 28L	14.39	0.938	1441621	1366081	1.05	YES	db	110.397	10.4	110	64	2.251
58	PCB 111L	21.83	1.105	962101	595450	1.62	YES	bb	104.539	4.5	105	65	1.404
59	PCB 178L	26.98	1.015	392328	368192	1.07	YES	bb	101.153	1.2	101	66	0.741
60	PCB 31L	14.24	0.928	1385152	1317005	1.05	YES	bd	112.012	12.0	112	64	2.167
61	PCB 95L	17.74	0.897	634491	392819	1.62	YES	bb	97.870	-2.1	98	65	0.926
62	PCB 153L	25.41	0.956	702550	537221	1.31	YES	bb	98.647	-1.4	99	66	1.209
63	PCB 9L	11.18	0.000	1554112	959876	1.62	YES	bb	134.037	34.0	134	0	25139...
64	PCB 52L	15.35	0.000	553299	693846	0.80	YES	bb	126.540	26.5	127	0	12471...
65	PCB 101L	19.77	0.000	686549	422824	1.62	YES	bb	124.900	24.9	125	0	11093...
66	PCB 138L	26.57	0.000	580665	445165	1.30	YES	bb	127.076	27.1	127	0	10258...
67	PCB 194L	39.18	0.000	397061	422752	0.94	YES	bb	125.524	25.5	126	0	8198....
68	Total MoCB F1								820.456			29	
69	Total MoCB labeled ...								192.507			63	
70	Total DiCB F1								428.272			31	
71	Total DiCB labeled F1								94.388			63	
72	Total DiCB F2								408.629			32	
73	Total DiCB labeled F2								228.220			63	
74	Total TriCB F2								438.071			33	
75	Total TriCB labeled F2								95.838			63	
76	Total TriCB F3								414.836			34	
77	Total TriCB labeled F3								325.971			64	
78	Total TeCB F2								426.236			35	
79	Total TeCB labeled F2								90.514			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								126.540			64	
82	Total TeCB F4								825.686			36	
83	Total TeCB labeled F4								207.419			64	
84	Total PeCB F3								425.597			38	
85	Total PeCB labeled F3								97.227			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								327.309			65	
88	Total PeCB F5								2061....			39	
89	Total PeCB labeled F5								517.422			65	
90	Total HxCB F4								428.124			44	
91	Total HxCB labeled F4								95.180			66	
92	Total HxCB F5											45	
93	Total HxCB labeled F5								225.723			66	
94	Total HxCB F6								1650....			45	
95	Total HxCB labeled F6								402.109			66	
96	Total HpCB F5								423.250			48	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:07:11 AM Eastern Standard Time

ID:
Date: 11-FEB-2016
Time: 21:13:41
Instrument: Autospec-UltimaE
Description: CS4_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
97	Total HpCB labeled ...								199.069			67	
98	Total HpCB F6								830.132			49	
99	Total HpCB labeled ...								201.163			67	
100	Total HpCB F7								408.337			51	
101	Total HpCB labeled ...								99.682			67	
102	Total OcCB F6								429.030			52	
103	Total OcCB labeled ...								99.415			67	
104	Total OcCB F7								402.344			53	
105	Total OcCB labeled ...								224.416			67	
106	Total NoCB F7								831.430			54	
107	Total NoCB labeled ...								199.212			67	
108	Total DeCB F7								404.862			56	
109	Total DeCB labeled ...								97.832			67	
110	lockmass F1											0	
111	lockmass F2											0	
112	lockmass F3											0	
113	lockmass F4											0	
114	lockmass F5											0	
115	lockmass F6											0	
116	lockmass F7											0	

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

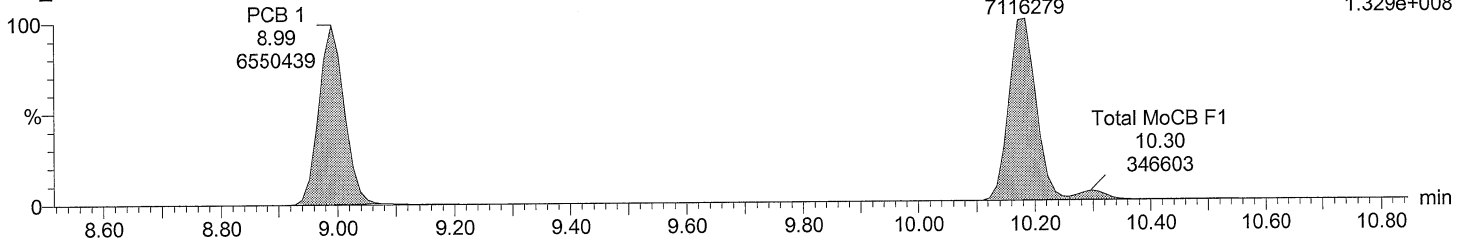
Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 3
10.19
7116279

F1:SIR of 10 channels,EI+
188.0393
1.329e+008

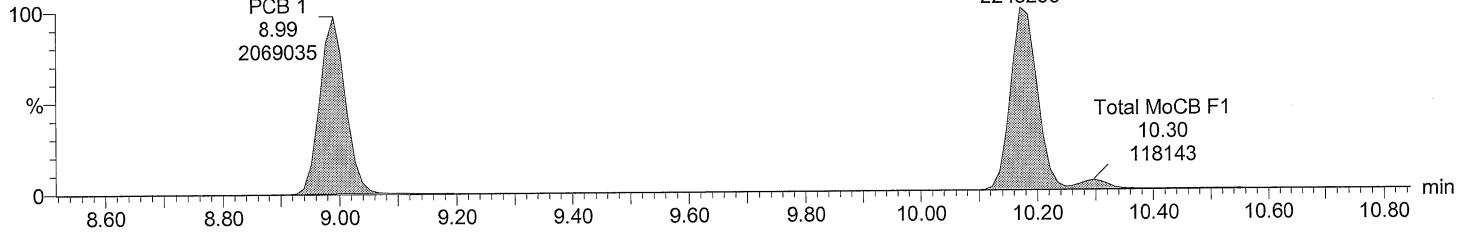


Total MoCB F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 3
10.17
2243259

F1:SIR of 10 channels,EI+
190.0363
4.262e+007

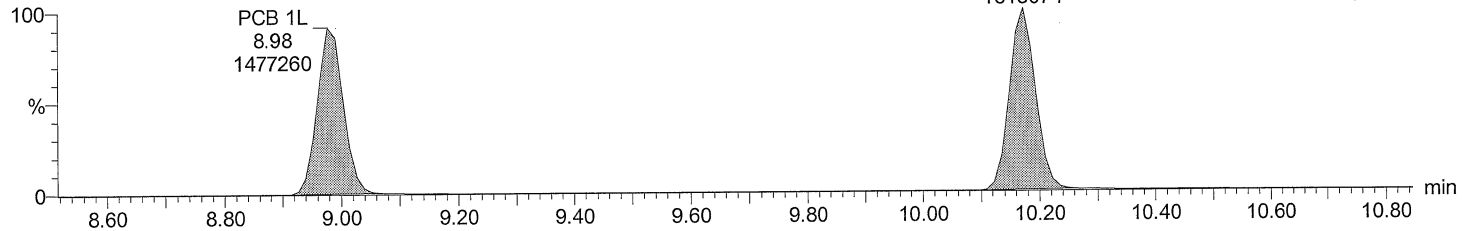


Total MoCB labeled F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 3L
10.17
1613074

F1:SIR of 10 channels,EI+
200.0795
3.174e+007

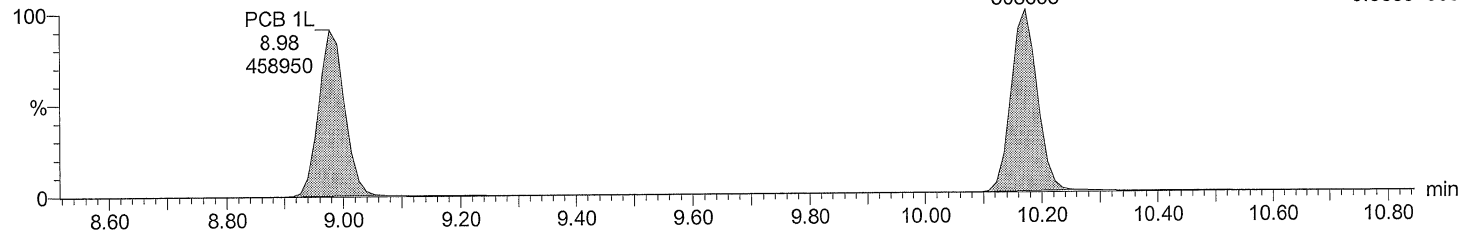


Total MoCB labeled F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 3L
10.17
508655

F1:SIR of 10 channels,EI+
202.076
9.988e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

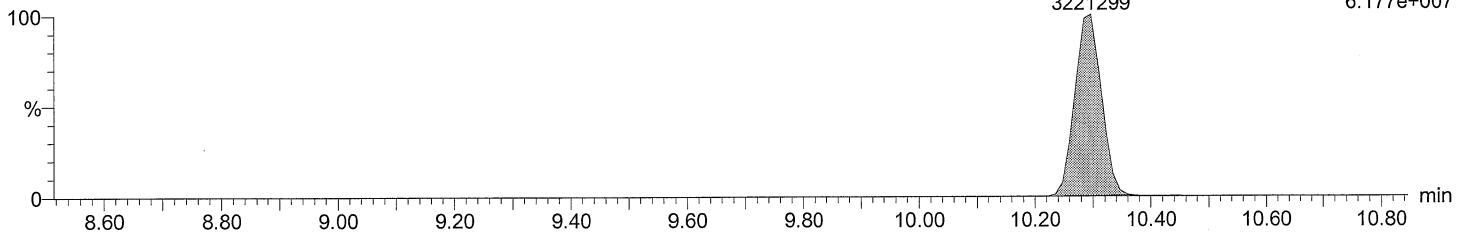
Time: 21:13:41

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

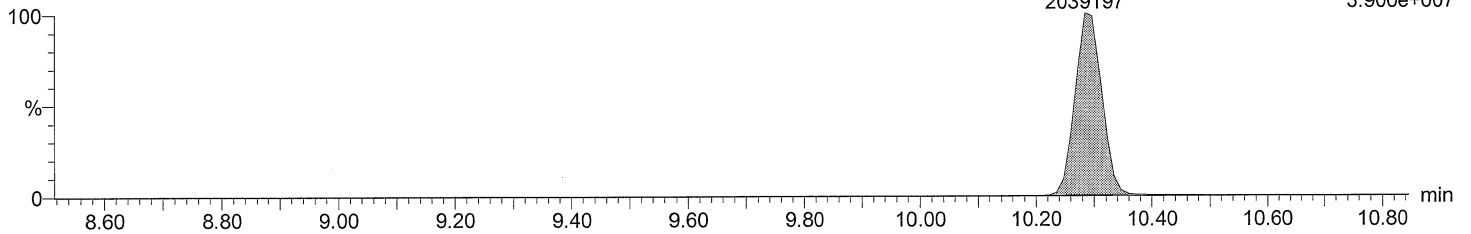
PCB 4
10.30
3221299
F1:SIR of 10 channels, EI+
222.0003
6.177e+007



Total DiCB F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

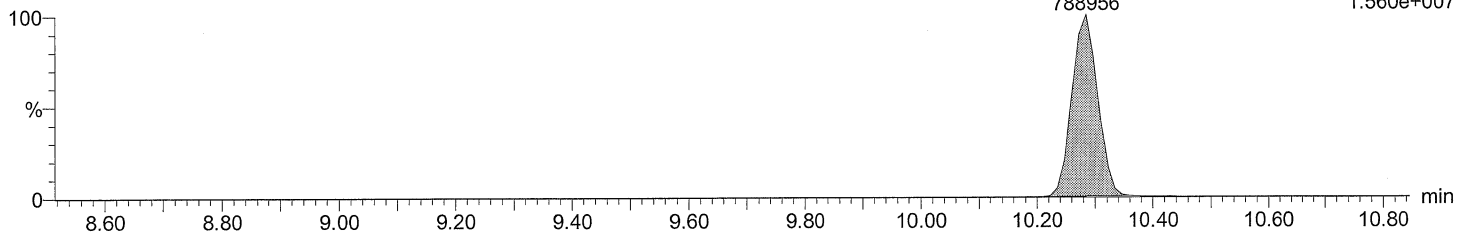
PCB 4
10.28
2039197
F1:SIR of 10 channels, EI+
223.9974
3.900e+007



Total DiCB labeled F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

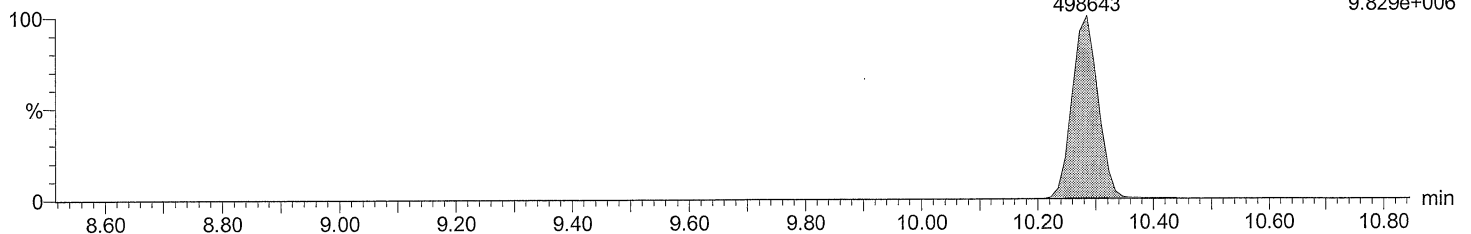
PCB 4L
10.28
788956
F1:SIR of 10 channels, EI+
234.0406
1.560e+007



Total DiCB labeled F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 4L
10.28
498643
F1:SIR of 10 channels, EI+
236.0376
9.829e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

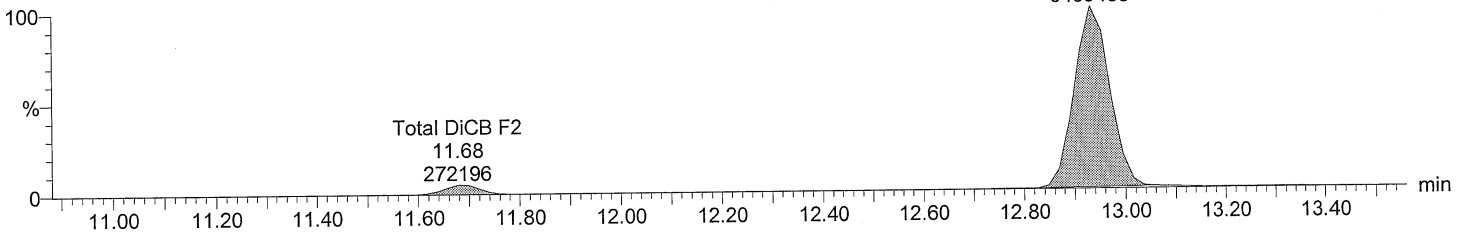
Instrument: Autospec-UltimaE

Total DiCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 15
12.93
5439488

F2:SIR of 16 channels,EI+
222.0003
6.830e+007

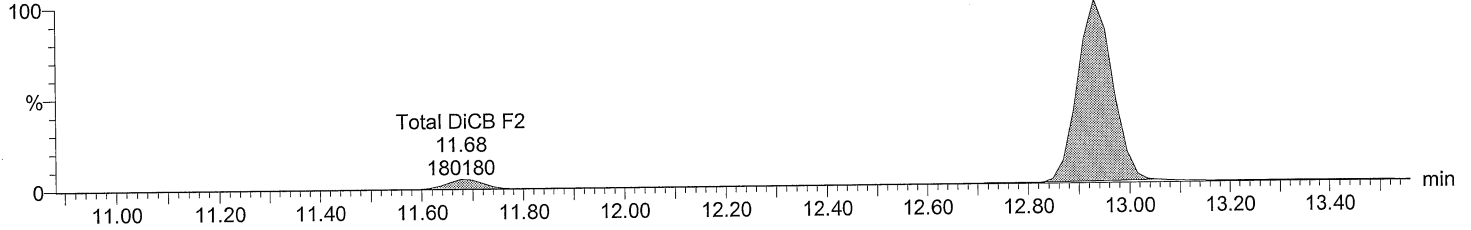


Total DiCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 15
12.93
3609118

F2:SIR of 16 channels,EI+
223.9974
4.550e+007



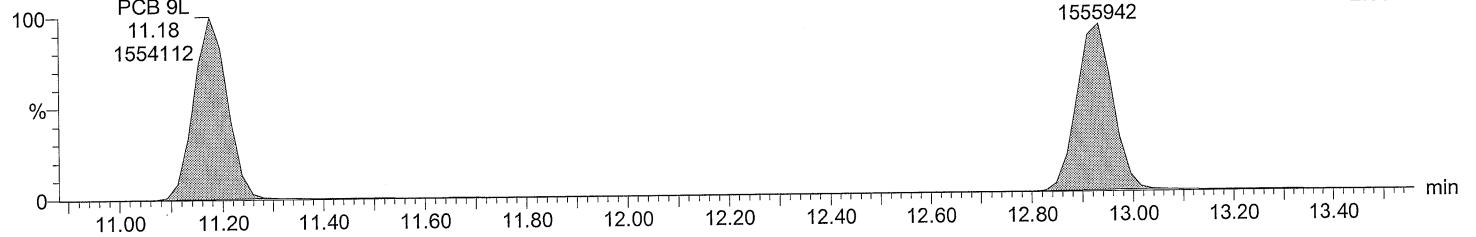
Total DiCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 9L
11.18
1554112

PCB 15L
12.93
1555942

F2:SIR of 16 channels,EI+
234.0406
2.083e+007



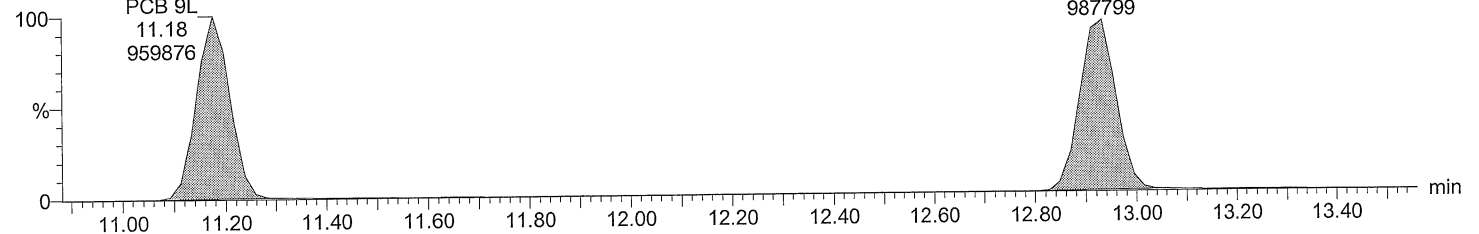
Total DiCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 9L
11.18
959876

PCB 15L
12.93
987799

F2:SIR of 16 channels,EI+
236.0376
1.289e+007



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

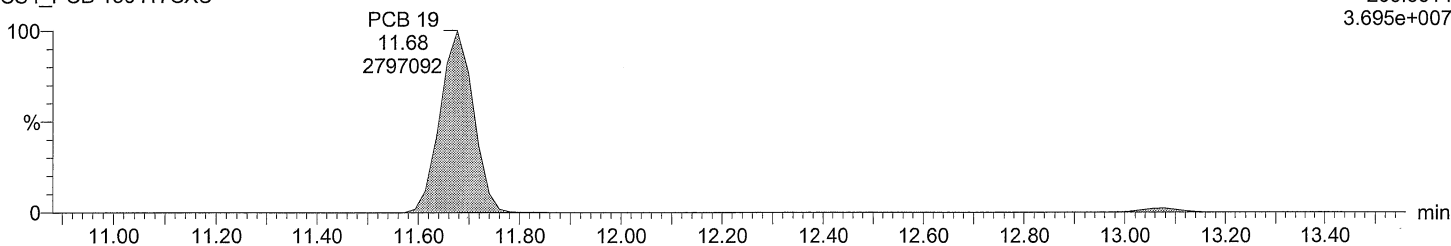
Time: 21:13:41

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

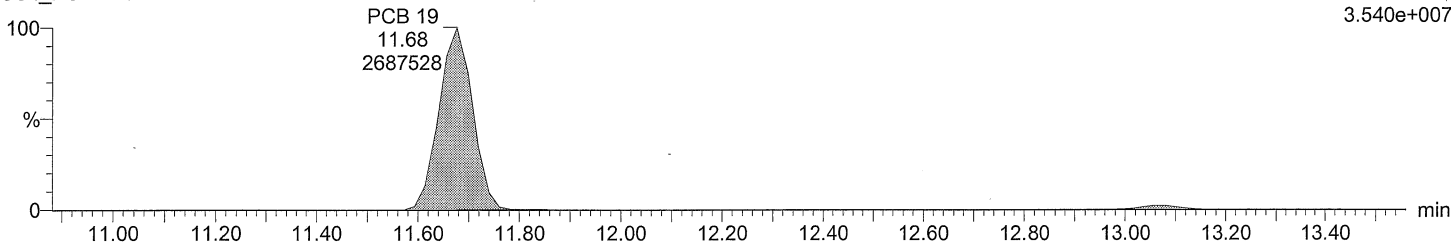
F2:SIR of 16 channels,EI+
255.9614
3.695e+007



Total TriCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

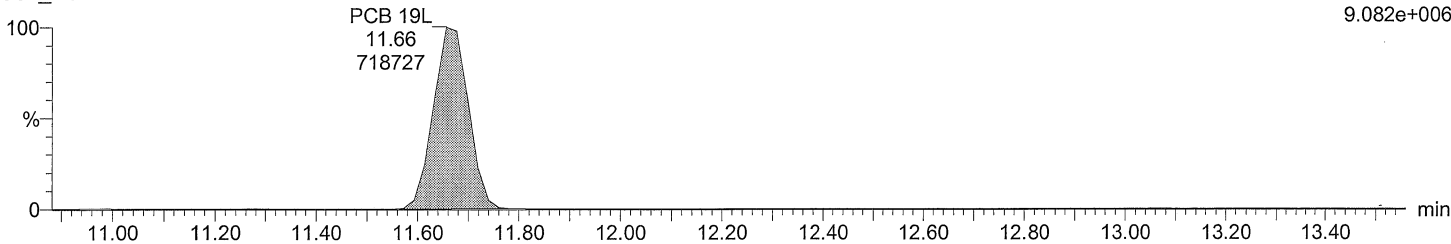
F2:SIR of 16 channels,EI+
257.9584
3.540e+007



Total TriCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

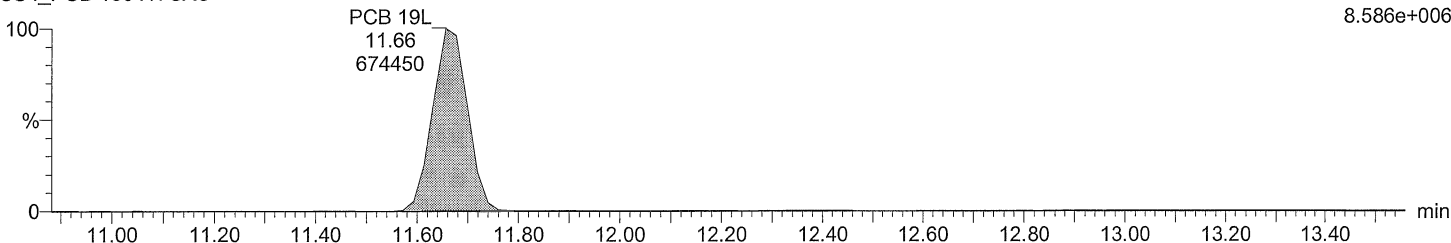
F2:SIR of 16 channels,EI+
268.0016
9.082e+006



Total TriCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

F2:SIR of 16 channels,EI+
269.9986
8.586e+006



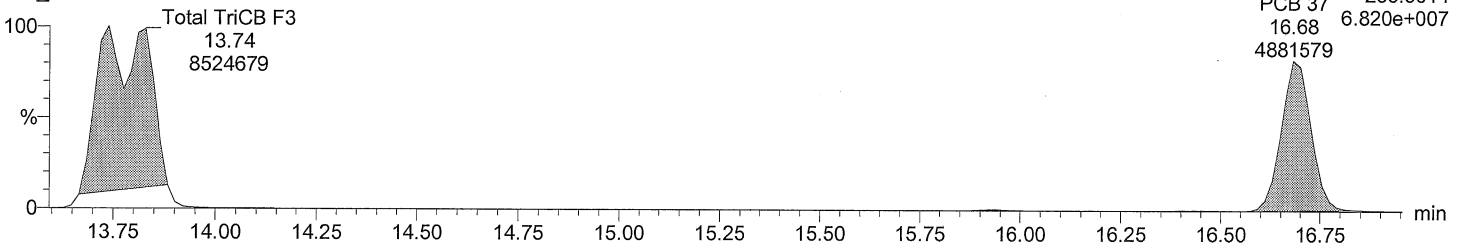
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU
Vial: 5
Date: 11-FEB-2016
Time: 21:13:41
Instrument: Autospec-UltimaE

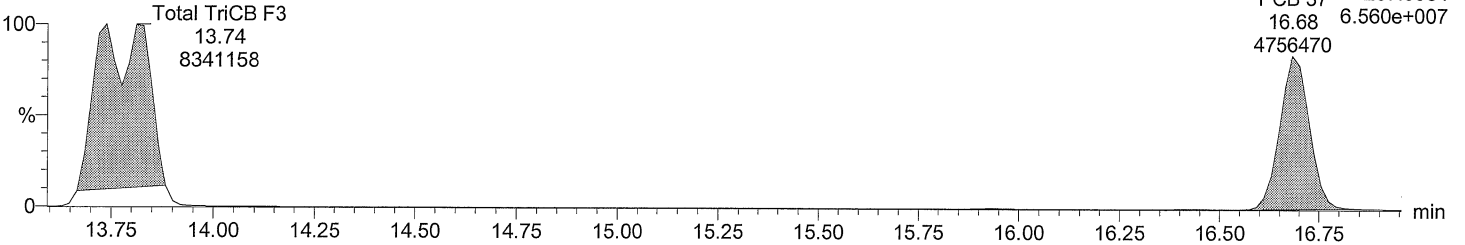
Total TriCB F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



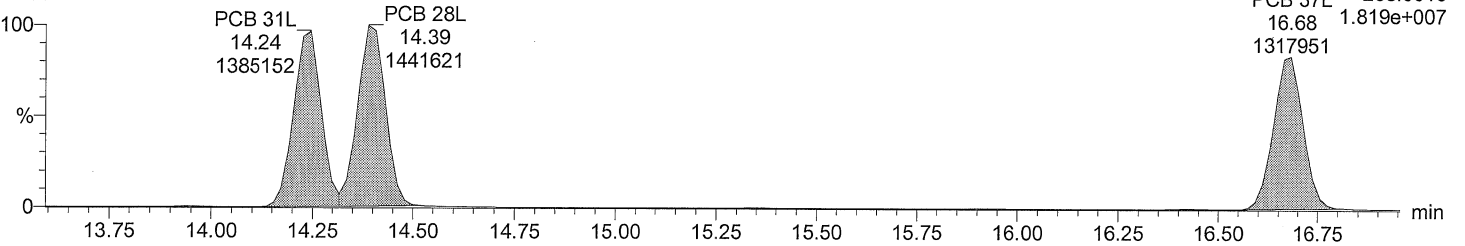
Total TriCB F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



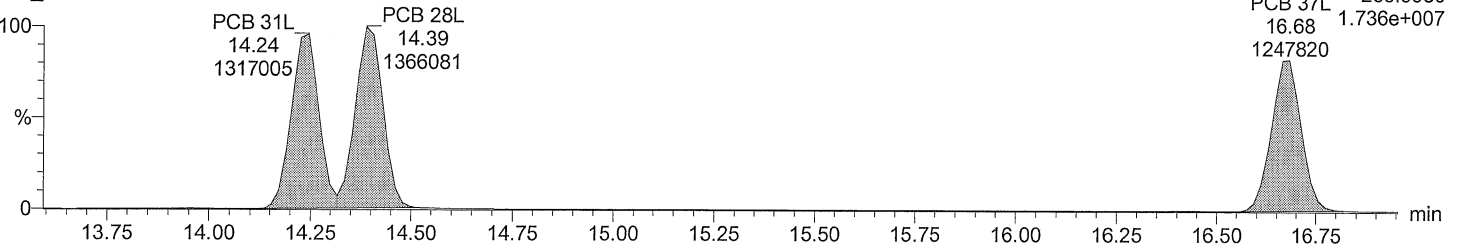
Total TriCB labeled F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



Total TriCB labeled F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

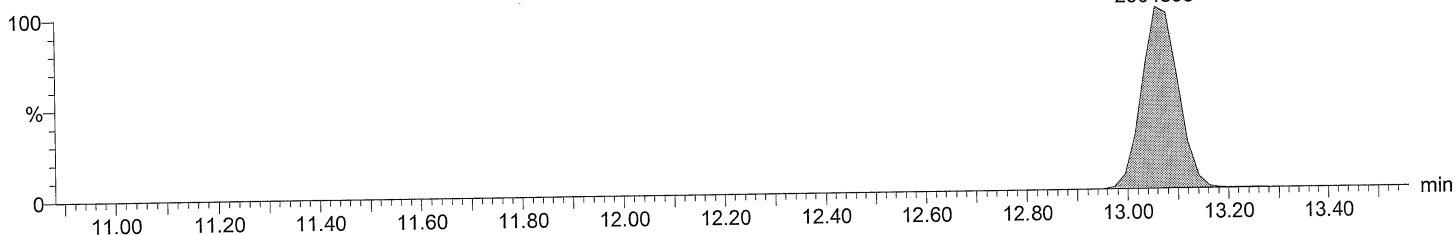
Time: 21:13:41

Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

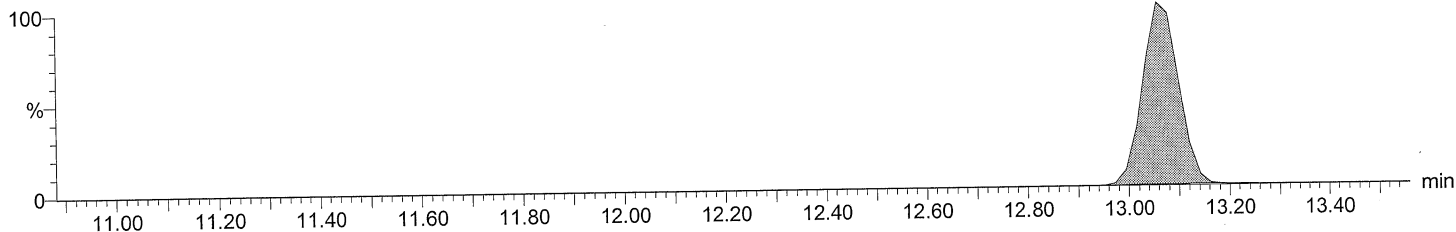
PCB 54 F2:SIR of 16 channels,EI+
13.06 289.9224
2504893 3.020e+007



Total TeCB F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

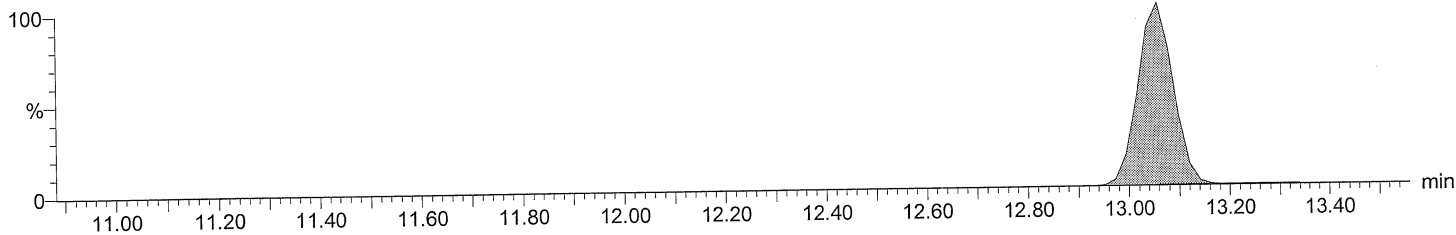
PCB 54 F2:SIR of 16 channels,EI+
13.06 291.9194
3178847 3.874e+007



Total TeCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

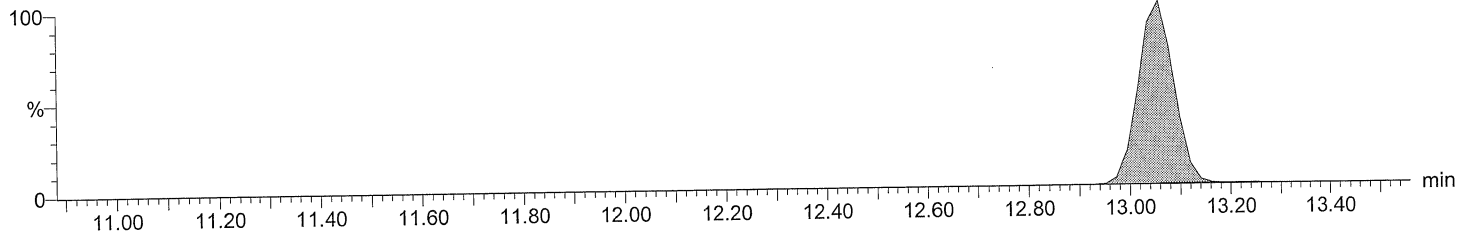
PCB 54L F2:SIR of 16 channels,EI+
13.06 301.9626
644699 8.045e+006



Total TeCB labeled F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 54L F2:SIR of 16 channels,EI+
13.06 303.9597
819752 1.018e+007



Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

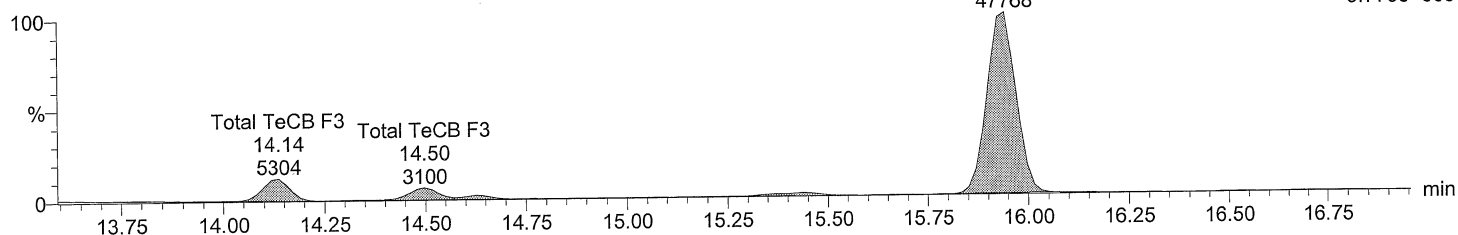
Description: CS4_PCB 150417CXU
Vial: 5
Date: 11-FEB-2016
Time: 21:13:41
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

Total TeCB F3
 15.94
 47768

F3:SIR of 14 channels,EI+
 289.9224
 5.779e+005

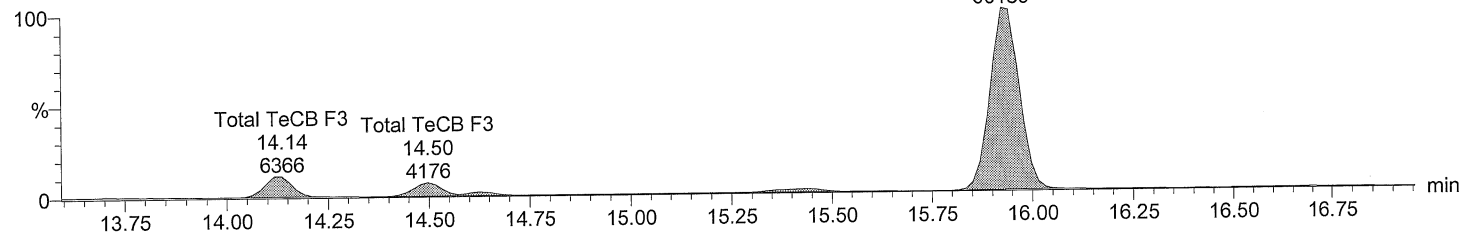


Total TeCB F3

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

Total TeCB F3
 15.92
 60189

F3:SIR of 14 channels,EI+
 291.9194
 7.227e+005

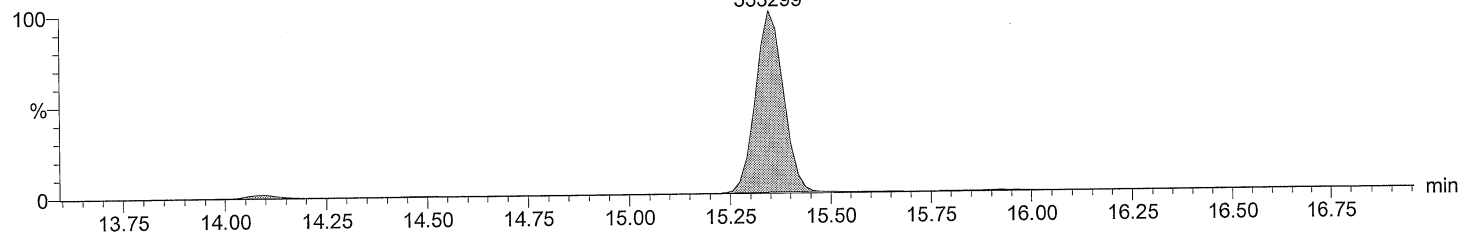


Total TeCB labeled F3

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 52L
 15.35
 553299

F3:SIR of 14 channels,EI+
 301.9626
 6.951e+006

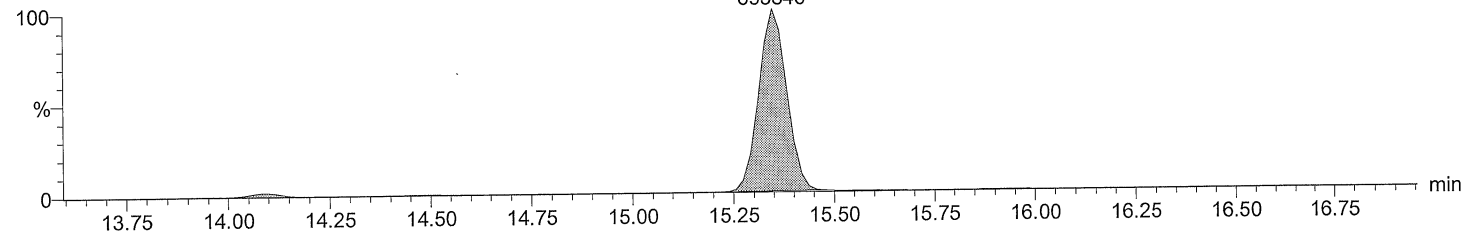


Total TeCB labeled F3

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 52L
 15.35
 693846

F3:SIR of 14 channels,EI+
 303.9597
 8.707e+006



Quantify Sample Report **MassLynx 4.0 SP1**

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

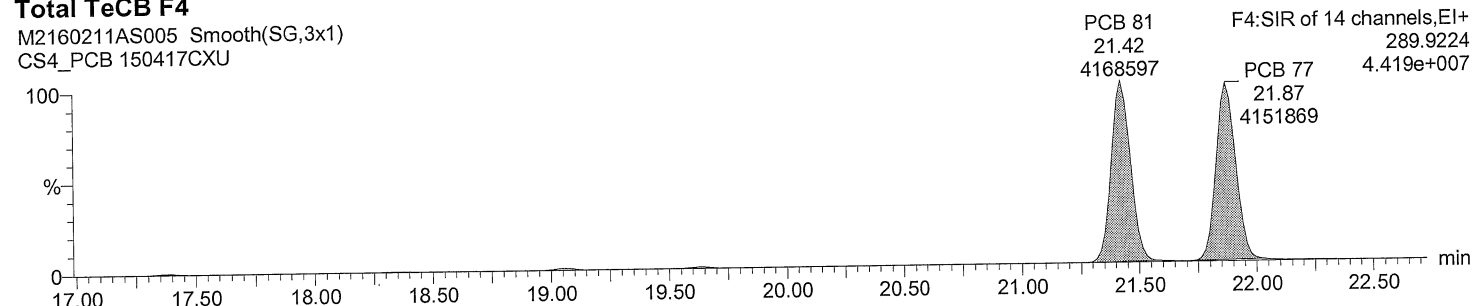
Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

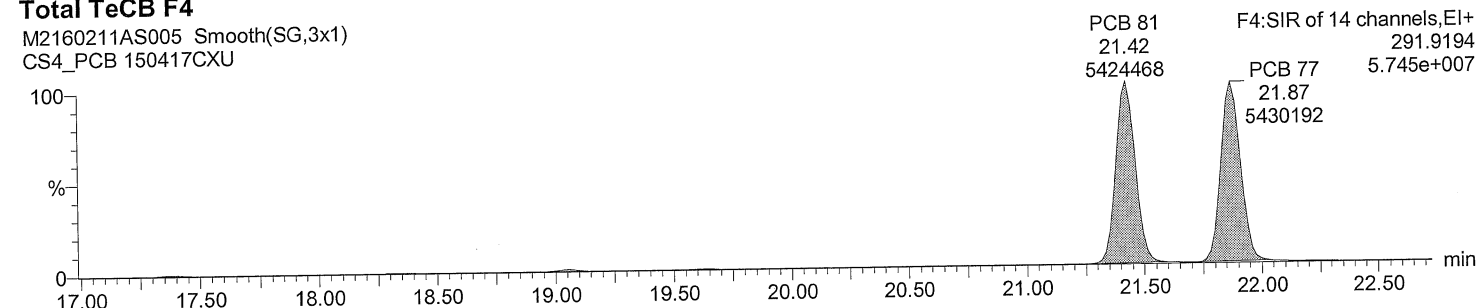
Total TeCB F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



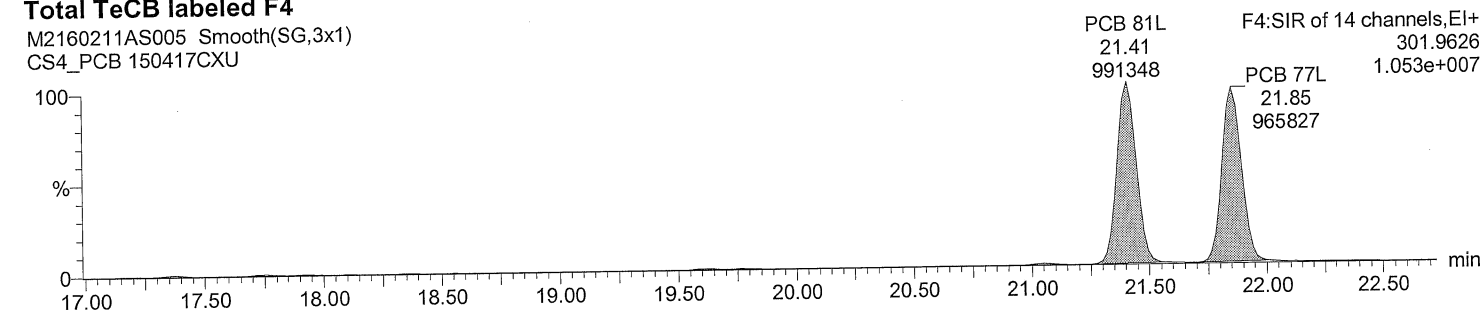
Total TeCB F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



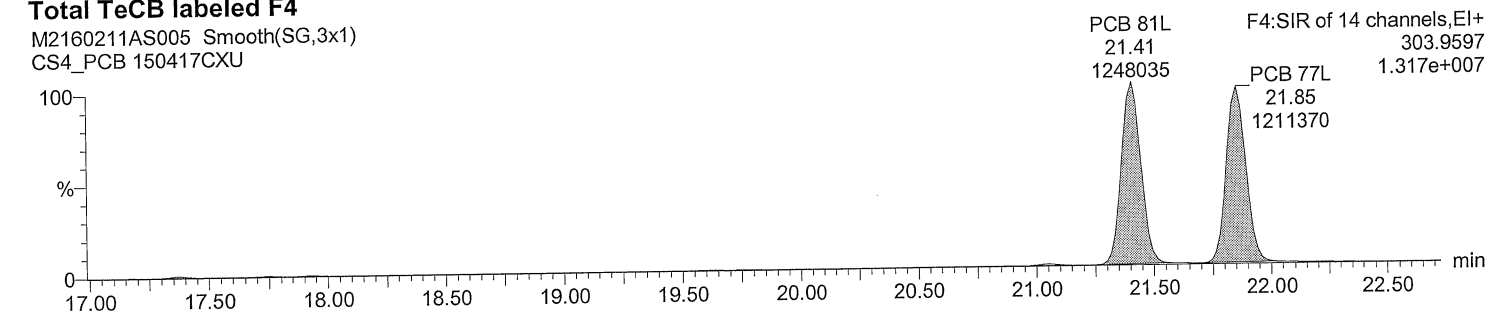
Total TeCB labeled F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



Total TeCB labeled F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

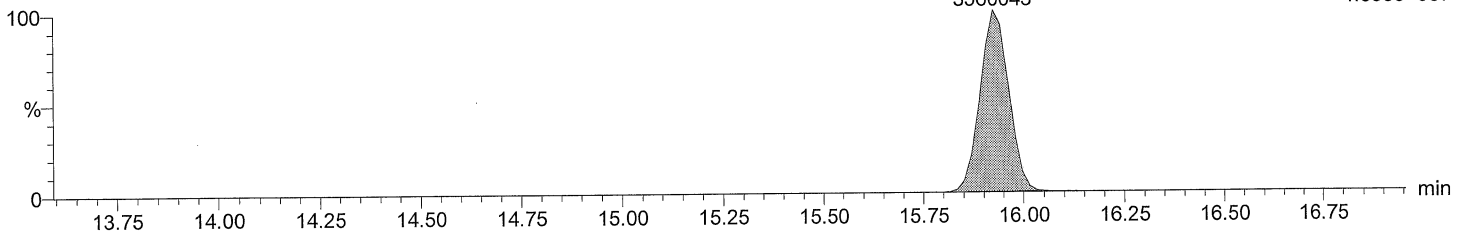
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 104
15.92
3560043

F3:SIR of 14 channels,EI+
325.8805
4.335e+007

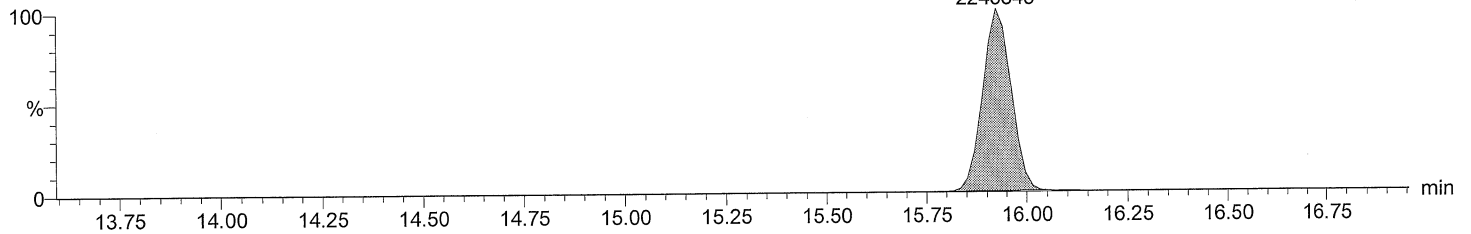


Total PeCB F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 104
15.92
2245549

F3:SIR of 14 channels,EI+
327.8775
2.749e+007

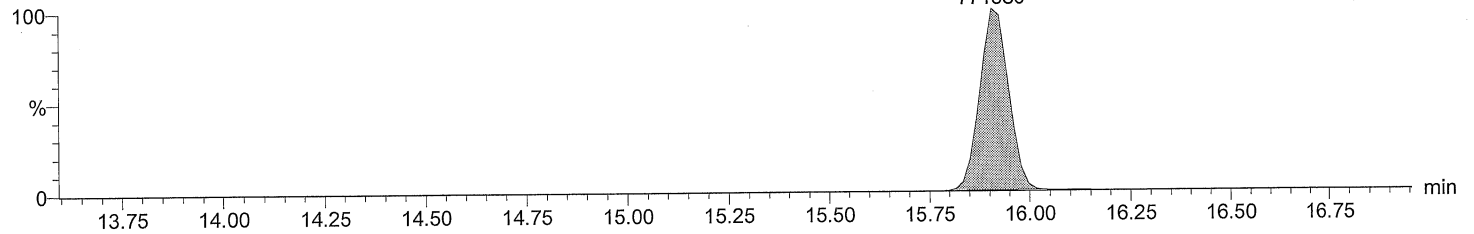


Total PeCB labeled F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 104L
15.91
771386

F3:SIR of 14 channels,EI+
337.9207
9.331e+006

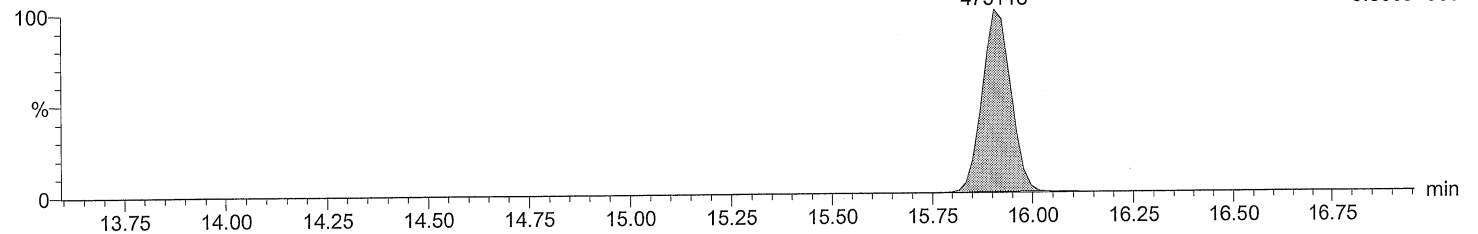


Total PeCB labeled F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 104L
15.91
475118

F3:SIR of 14 channels,EI+
339.9178
5.800e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

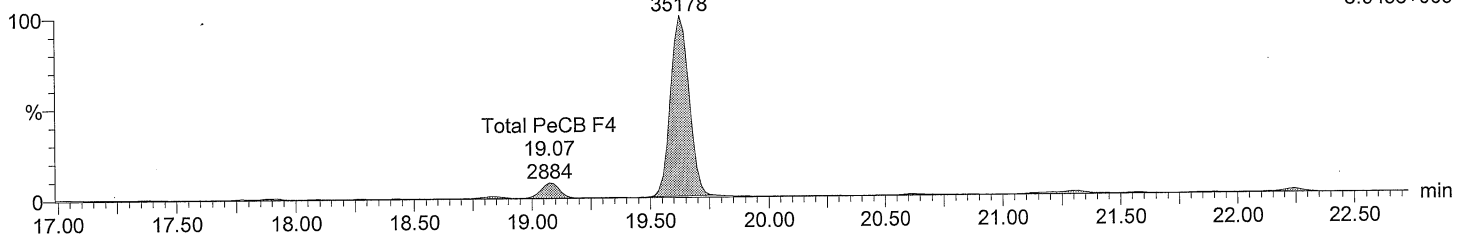
Time: 21:13:41

Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

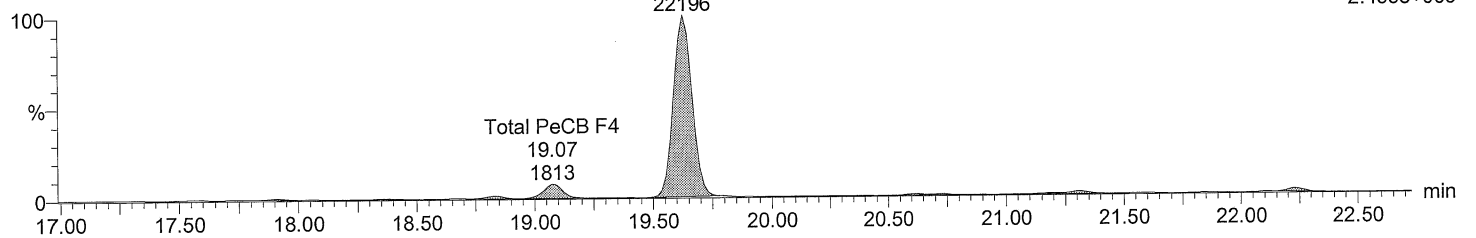
F4:SIR of 14 channels,EI+
325.8805
3.945e+005



Total PeCB F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

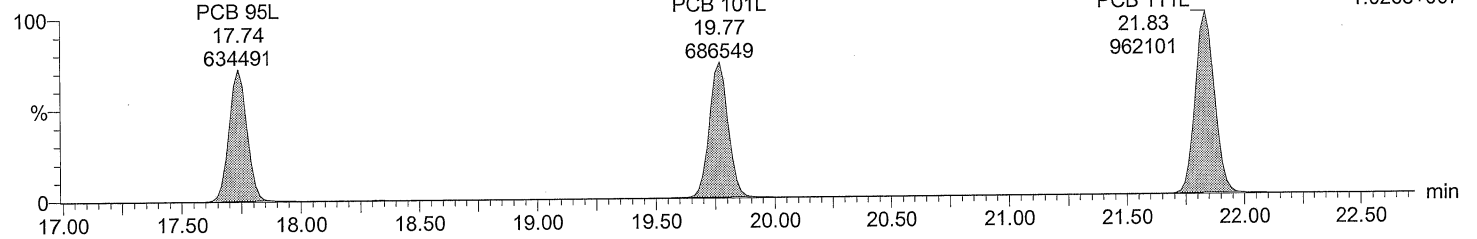
F4:SIR of 14 channels,EI+
327.8775
2.495e+005



Total PeCB labeled F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

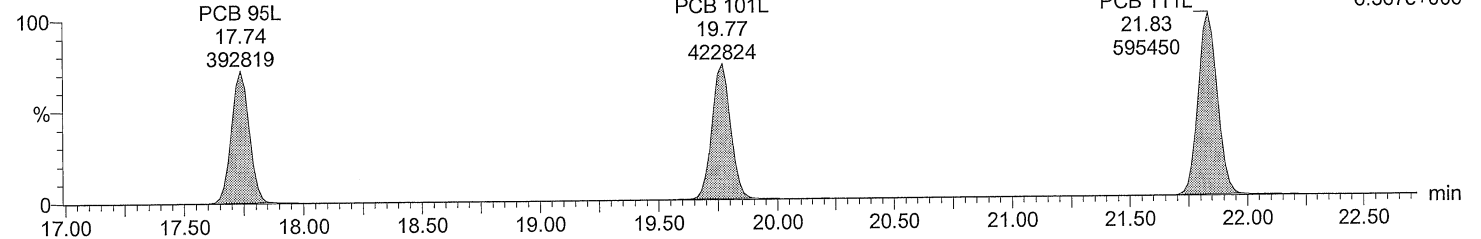
F4:SIR of 14 channels,EI+
337.9207
1.026e+007



Total PeCB labeled F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

F4:SIR of 14 channels,EI+
339.9178
6.367e+006



Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

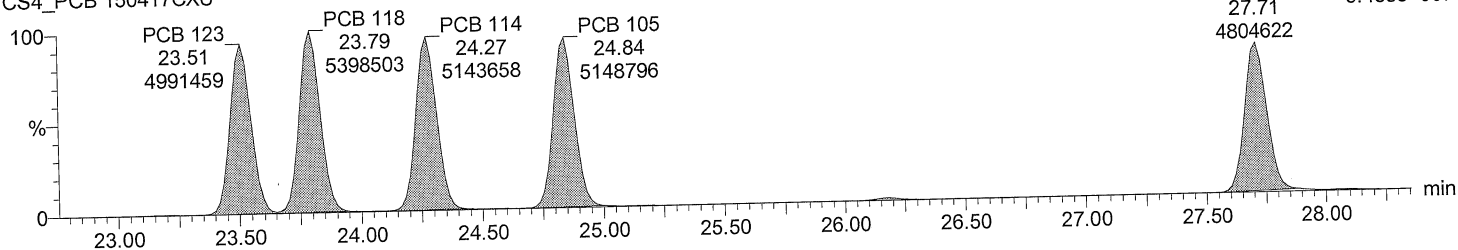
Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

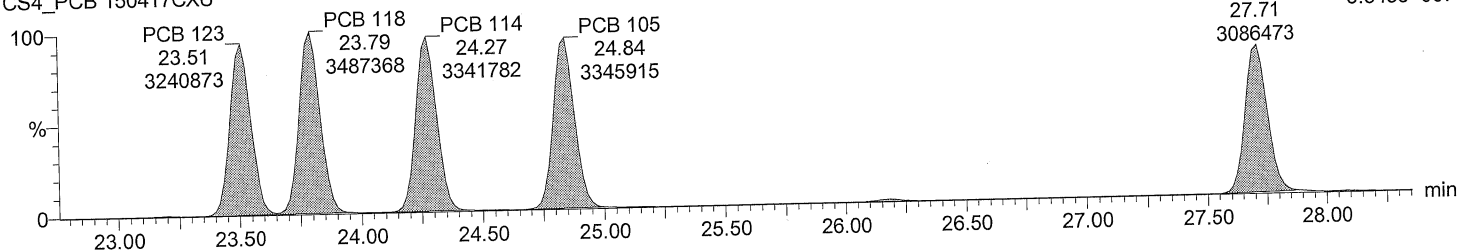
Total PeCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



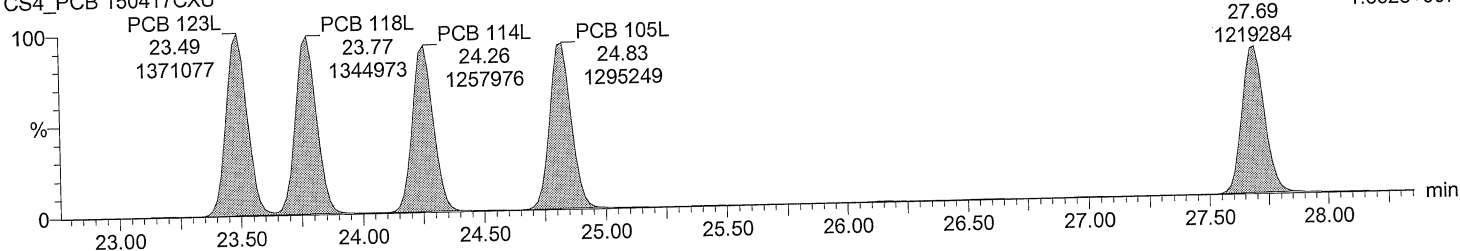
Total PeCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



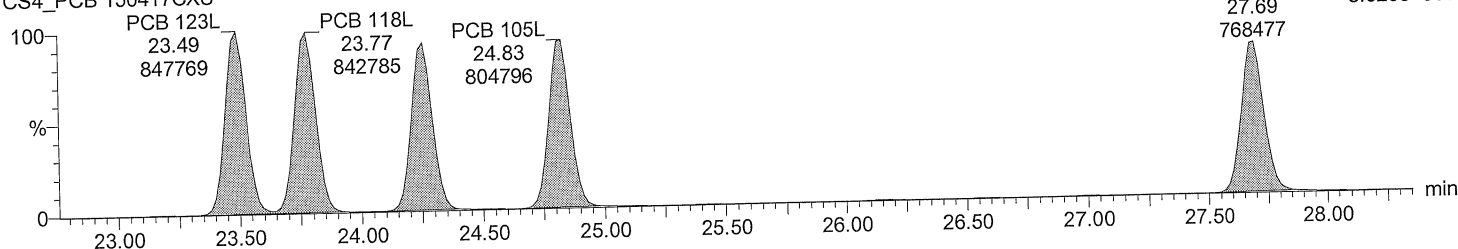
Total PeCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



Total PeCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

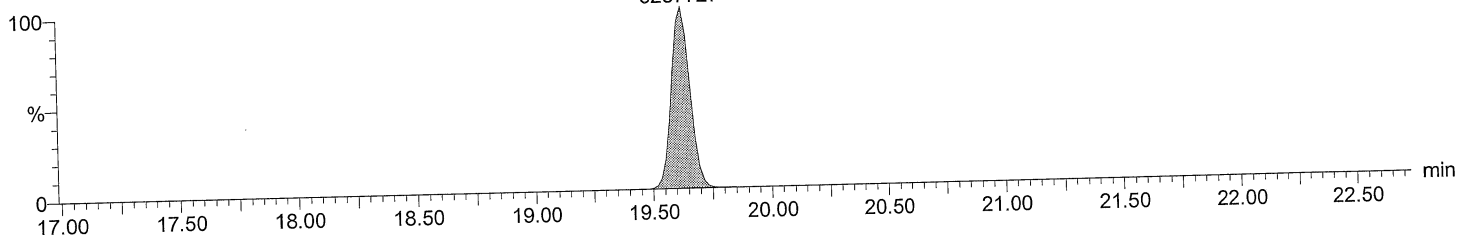
Description: CS4_PCB 150417CXU
Vial: 5
Date: 11-FEB-2016
Time: 21:13:41
Instrument: Autospec-UltimaE

Total HxCB F4

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 155
 19.63
 3287727

F4:SIR of 14 channels, EI+
 359.8415
 3.679e+007

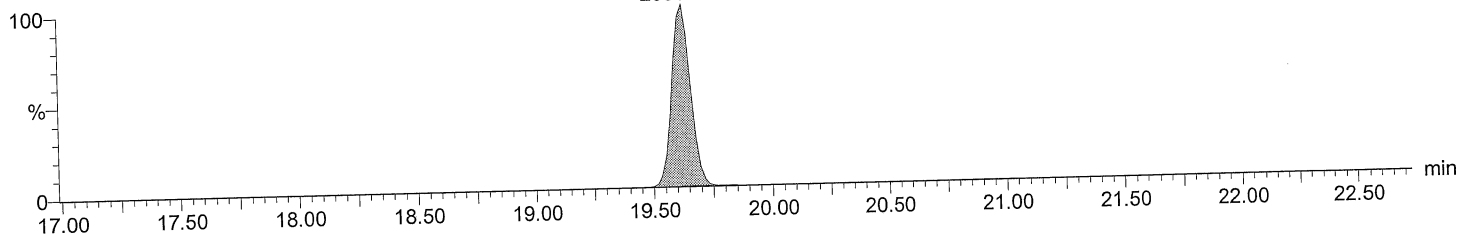


Total HxCB F4

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 155
 19.63
 2559146

F4:SIR of 14 channels, EI+
 361.8385
 2.859e+007

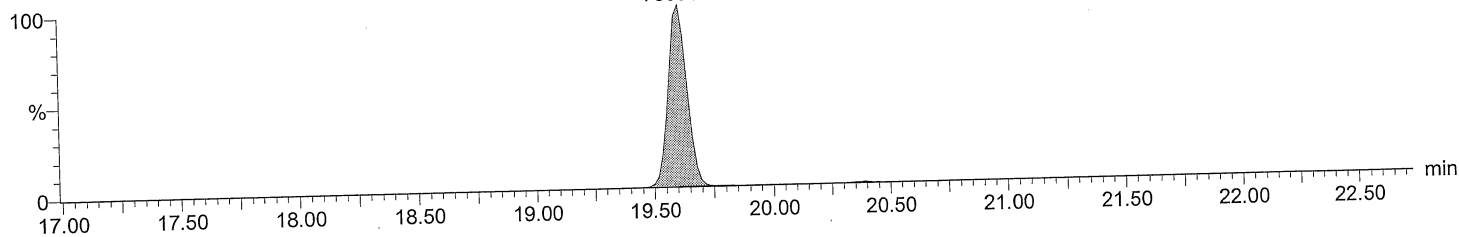


Total HxCB labeled F4

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 155L
 19.61
 769906

F4:SIR of 14 channels, EI+
 371.8817
 8.583e+006

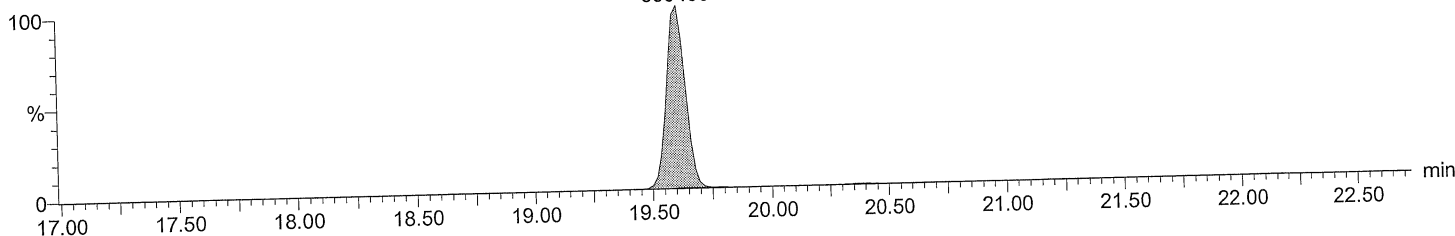


Total HxCB labeled F4

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 155L
 19.61
 600460

F4:SIR of 14 channels, EI+
 373.8788
 6.672e+006



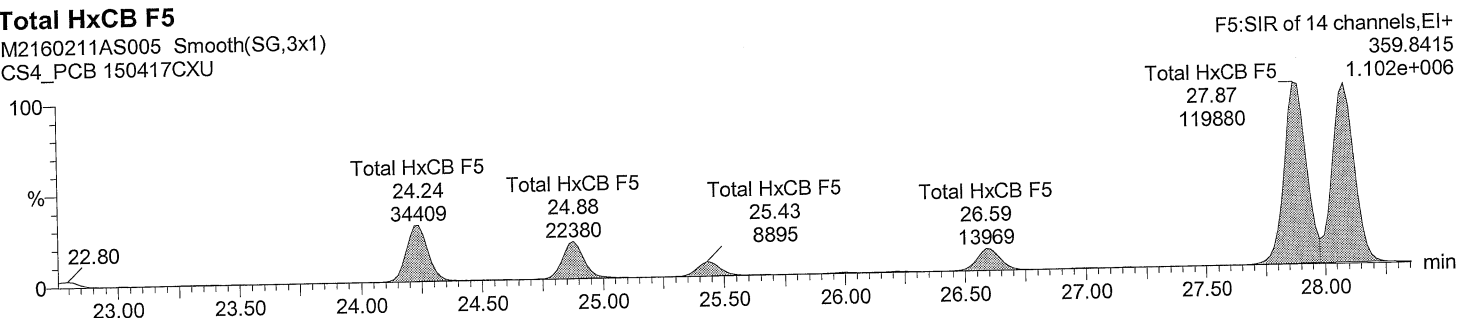
Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU
Vial: 5
Date: 11-FEB-2016
Time: 21:13:41
Instrument: Autospec-UltimaE

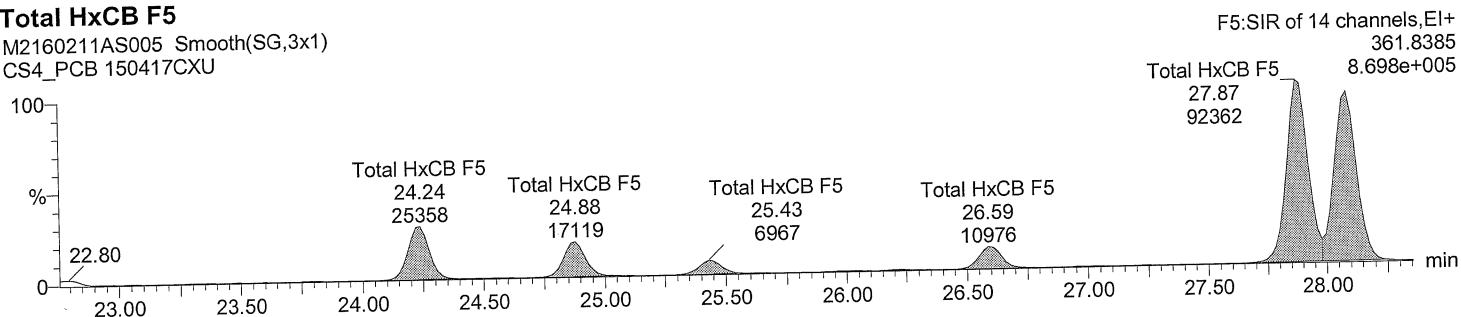
Total HxCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



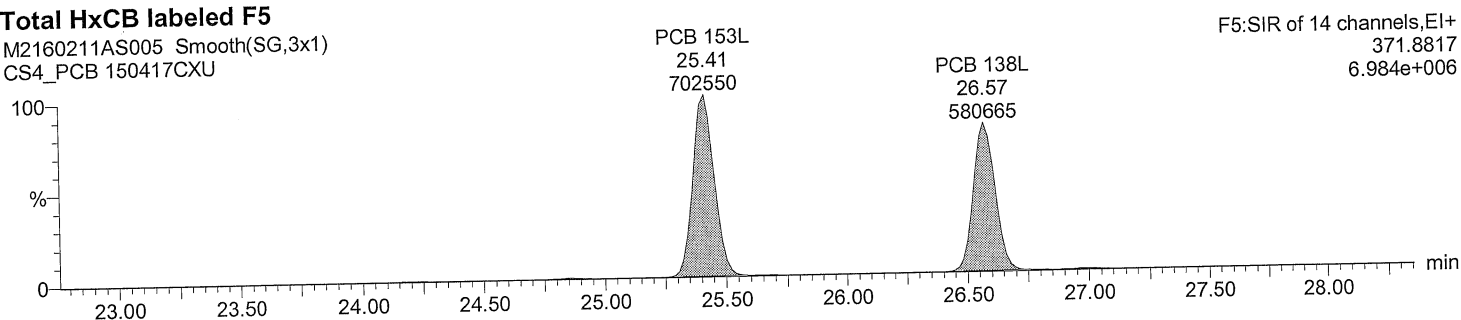
Total HxCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



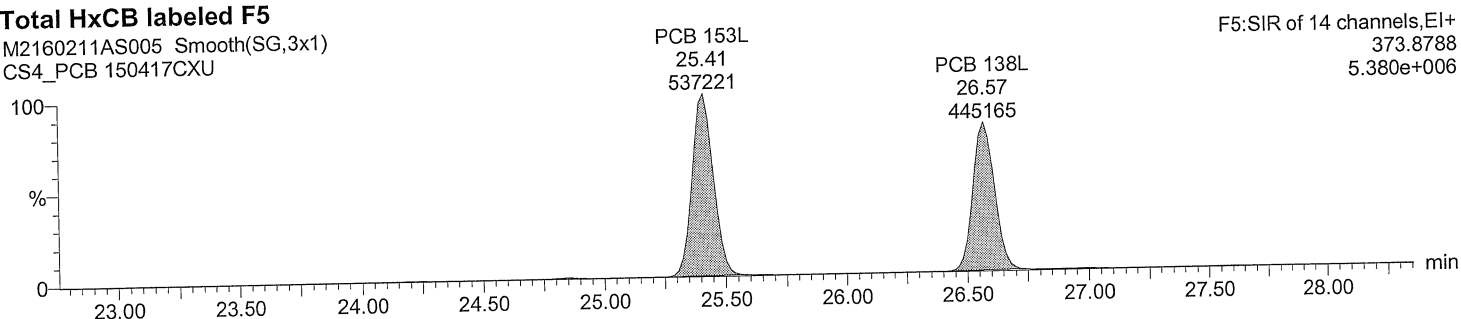
Total HxCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



Total HxCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU



Quantify Sample Report **MassLynx 4.0 SP1**
 Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld
 Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

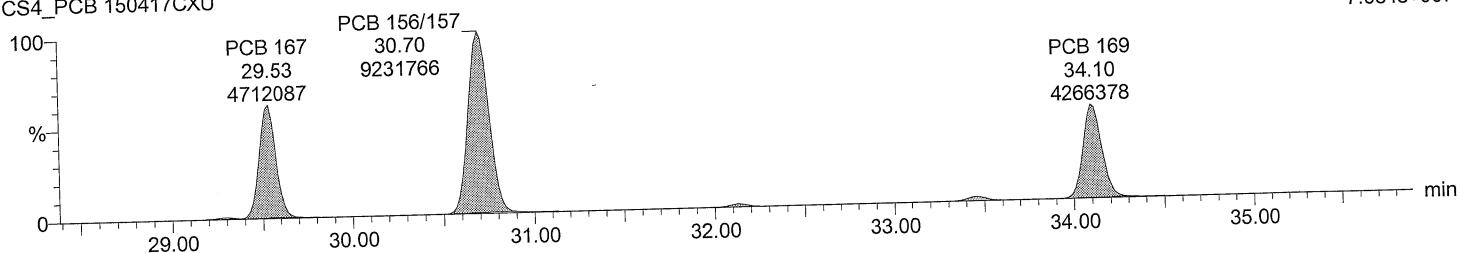
Time: 21:13:41

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

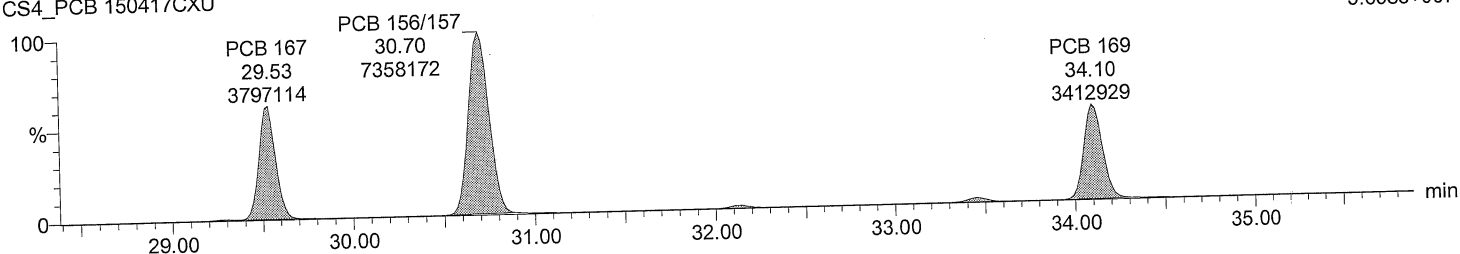
F6:SIR of 14 channels,EI+
 359.8415
 7.084e+007



Total HxCB F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

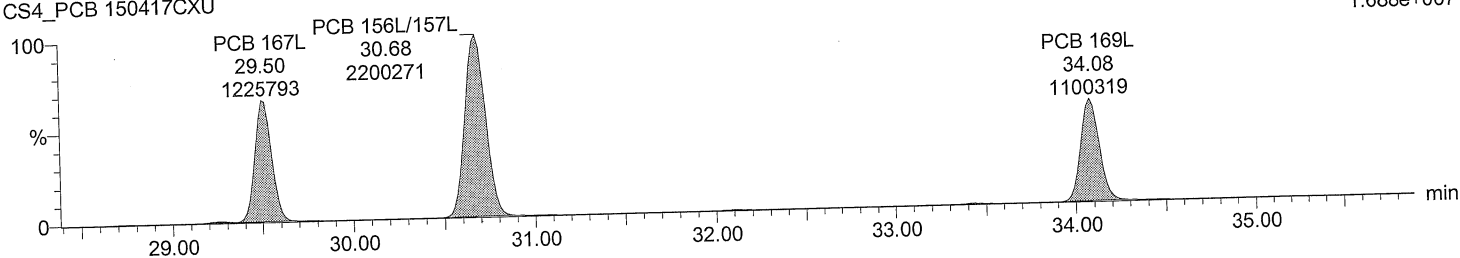
F6:SIR of 14 channels,EI+
 361.8385
 5.658e+007



Total HxCB labeled F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

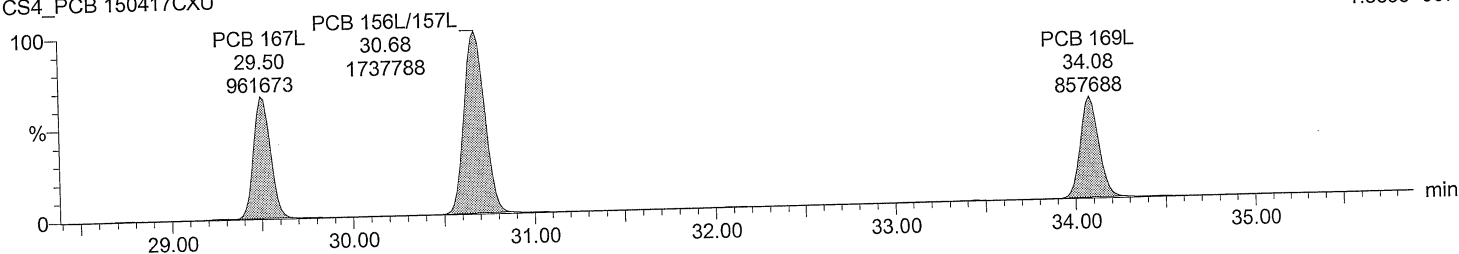
F6:SIR of 14 channels,EI+
 371.8817
 1.688e+007



Total HxCB labeled F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

F6:SIR of 14 channels,EI+
 373.8788
 1.335e+007



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

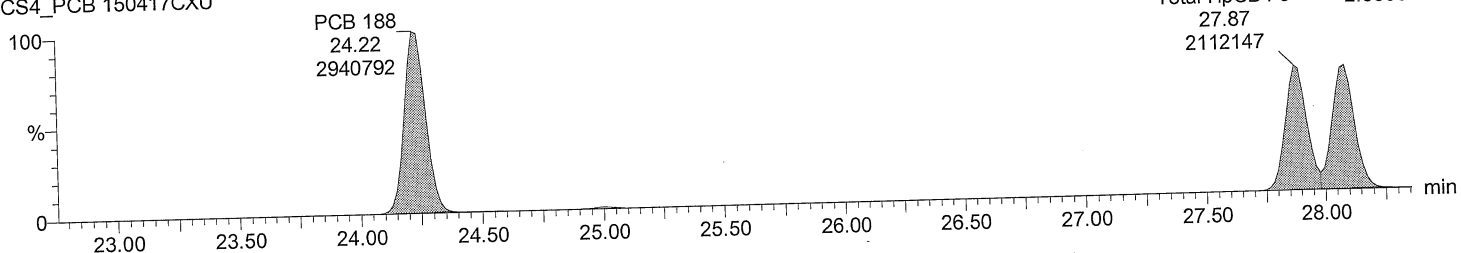
Time: 21:13:41

Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

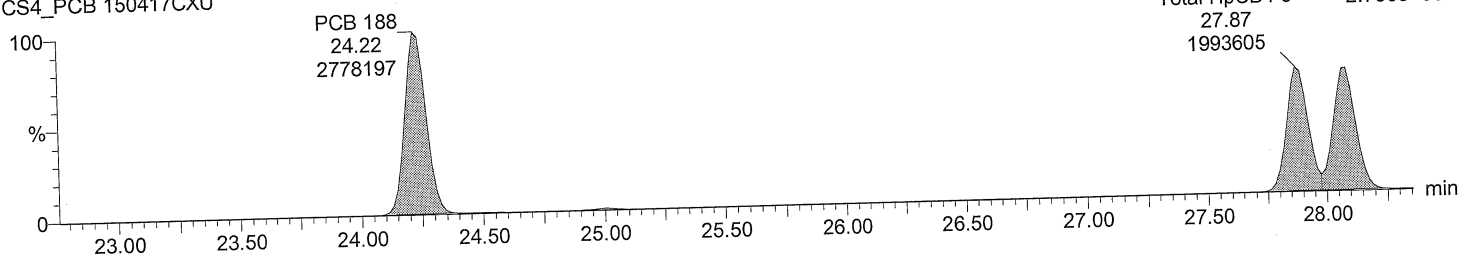
F5:SIR of 14 channels,EI+
 393.8025
 Total HpCB F5 2.939e+007
 27.87
 2112147



Total HpCB F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

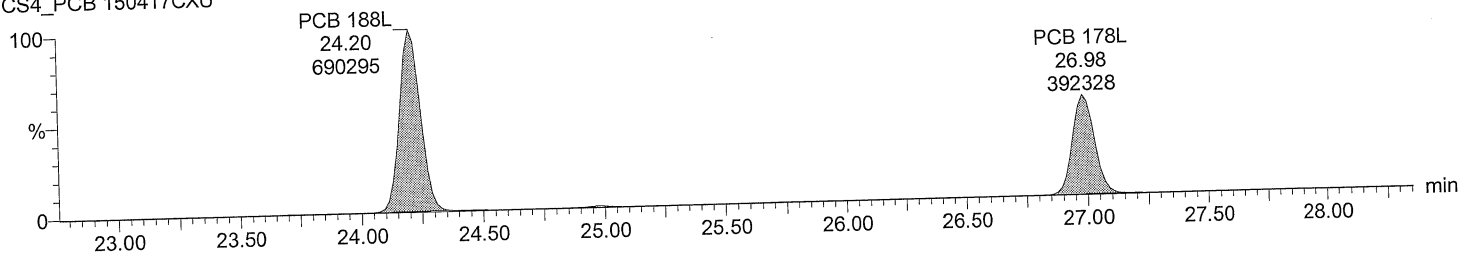
F5:SIR of 14 channels,EI+
 395.7995
 Total HpCB F5 2.790e+007
 27.87
 1993605



Total HpCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

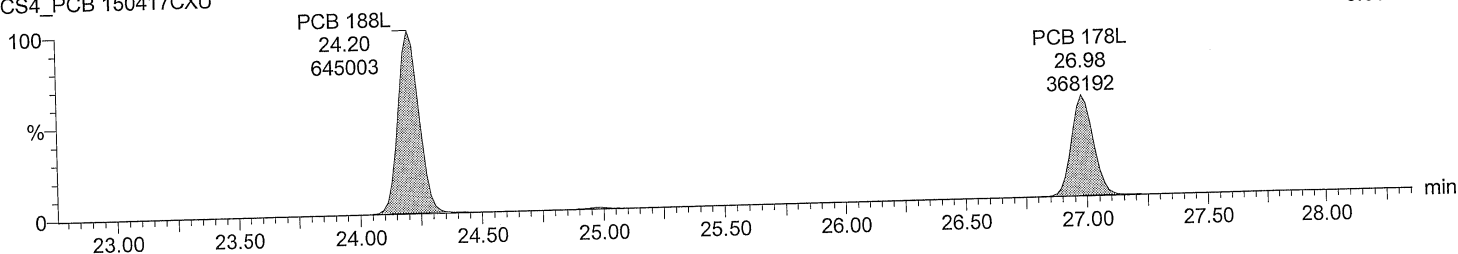
F5:SIR of 14 channels,EI+
 405.8428
 7.020e+006



Total HpCB labeled F5

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

F5:SIR of 14 channels,EI+
 407.8398
 6.565e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

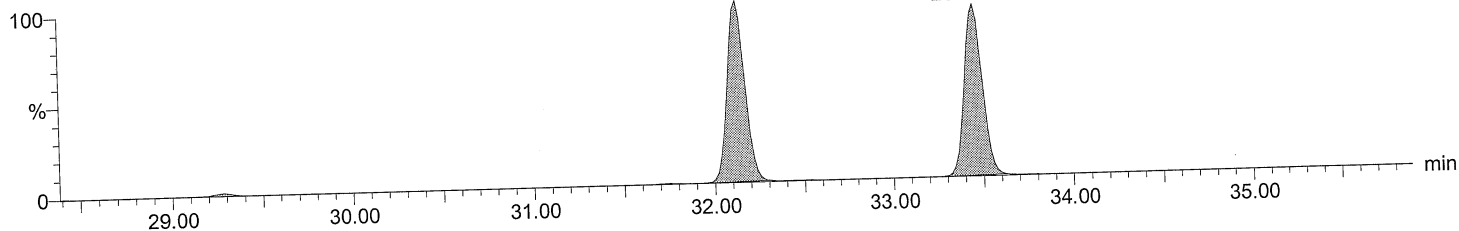
Total HpCB F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 193/180
 32.13
 2735297

PCB 170
 33.45
 2620049

F6:SIR of 14 channels,EI+
 393.8025
 2.451e+007



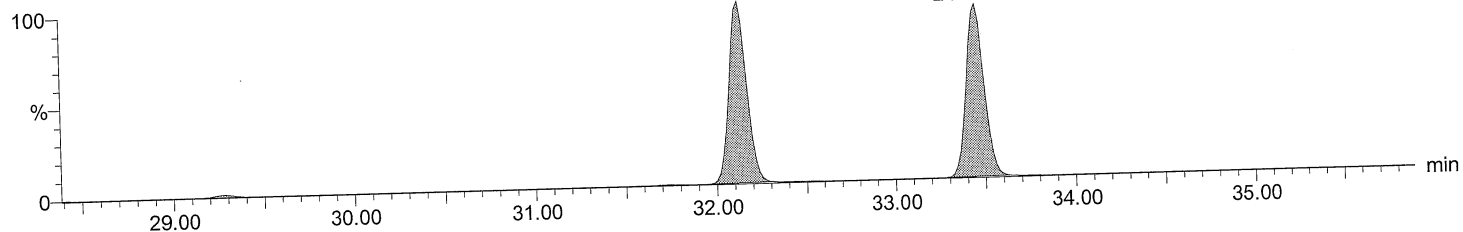
Total HpCB F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 193/180
 32.13
 2566233

PCB 170
 33.45
 2469179

F6:SIR of 14 channels,EI+
 395.7995
 2.301e+007



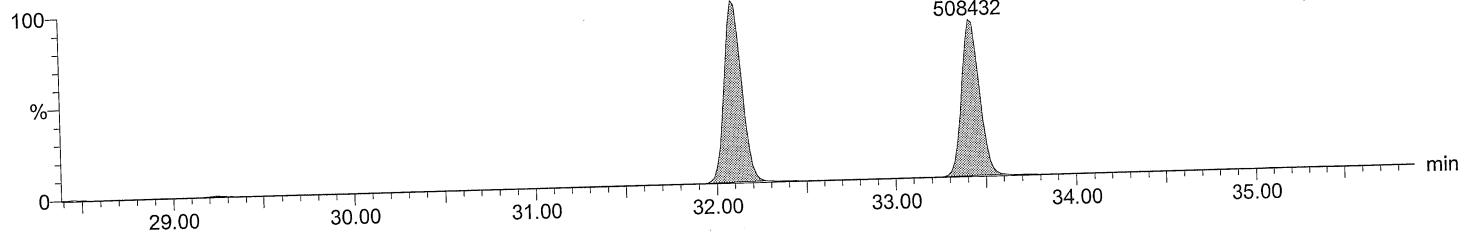
Total HpCB labeled F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 180L
 32.09
 575201

PCB 170L
 33.42
 508432

F6:SIR of 14 channels,EI+
 405.8428
 5.197e+006



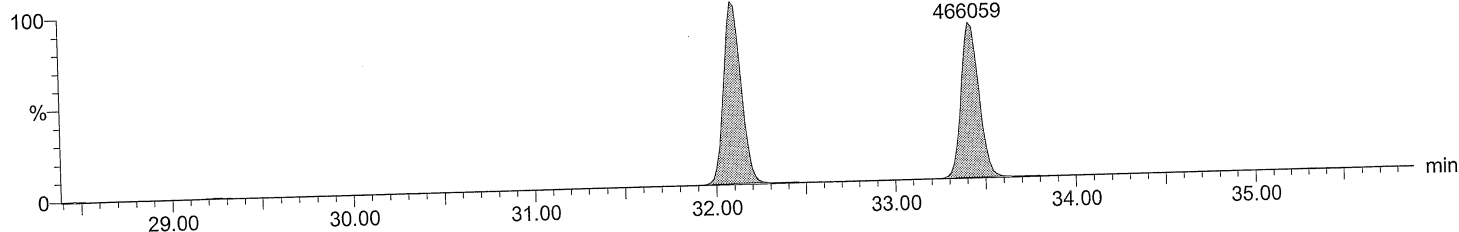
Total HpCB labeled F6

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

PCB 180L
 32.09
 535208

PCB 170L
 33.42
 466059

F6:SIR of 14 channels,EI+
 407.8398
 4.846e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

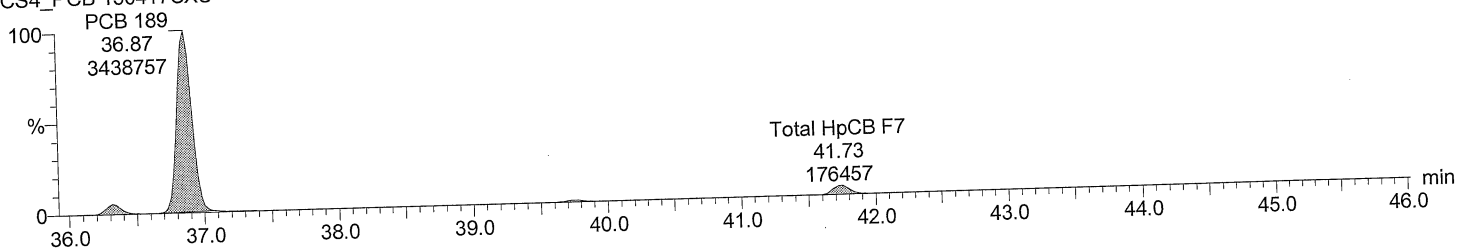
Time: 21:13:41

Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

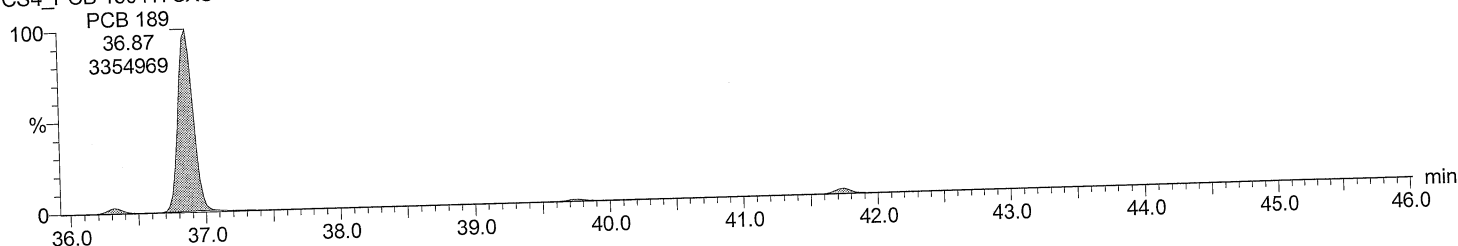
F7:SIR of 18 channels, EI+
 393.8025
 2.702e+007



Total HpCB F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

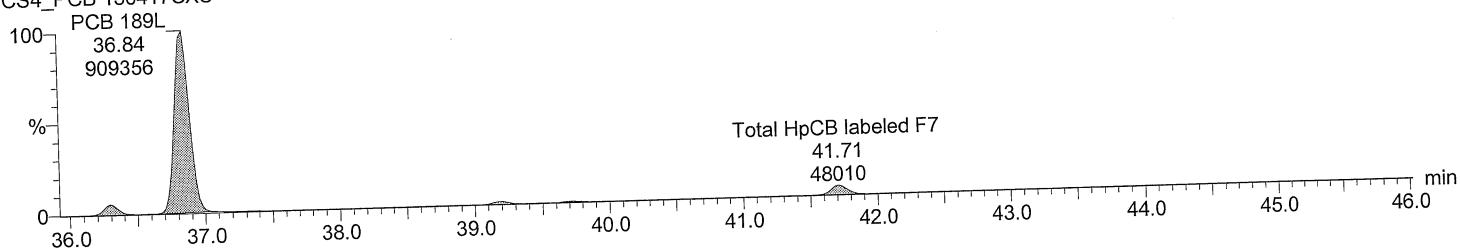
F7:SIR of 18 channels, EI+
 395.7995
 2.619e+007



Total HpCB labeled F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

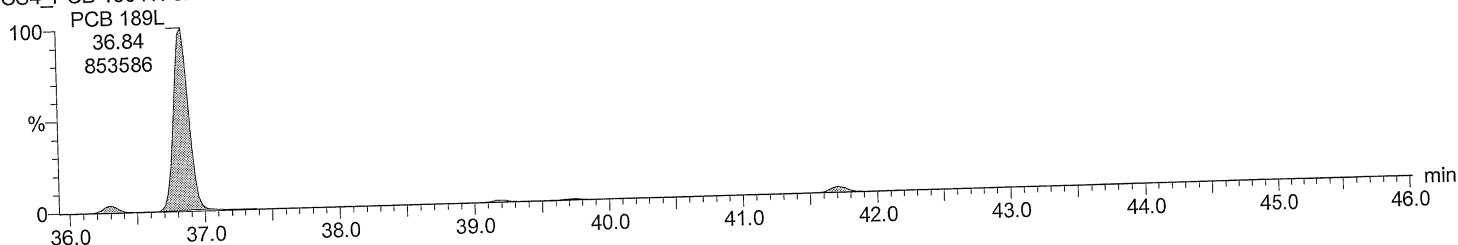
F7:SIR of 18 channels, EI+
 405.8428
 7.094e+006



Total HpCB labeled F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

F7:SIR of 18 channels, EI+
 407.8398
 6.637e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

Total OcCB F6

F6:SIR of 14 channels, EI+
427.7635
2.160e+007

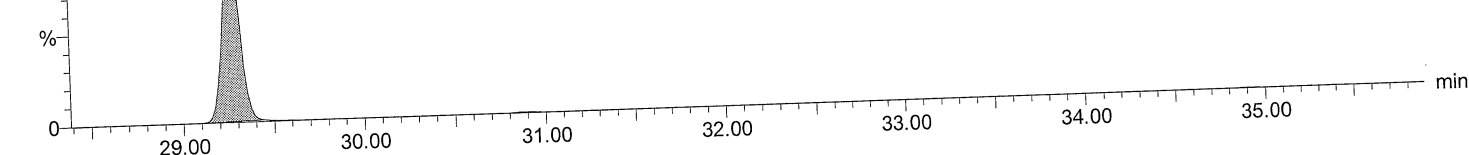
M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

PCB 202

29.26

2319246



Total OcCB F6

F6:SIR of 14 channels, EI+
429.7606
2.415e+007

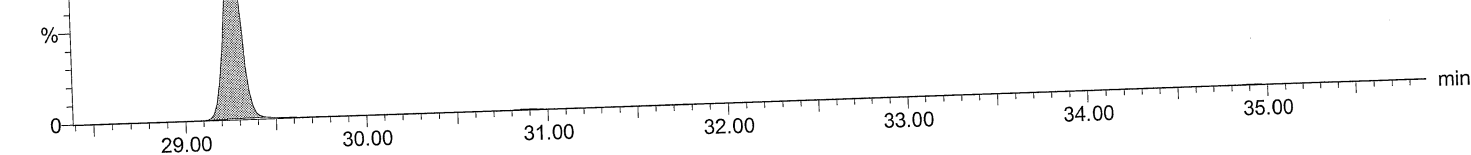
M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

PCB 202

29.26

2582348



Total OcCB labeled F6

F6:SIR of 14 channels, EI+
439.8038
5.191e+006

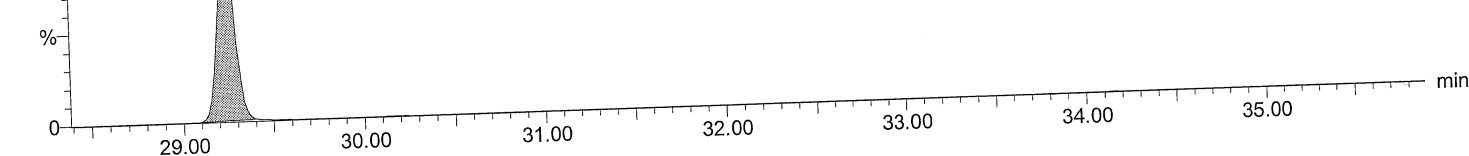
M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

PCB 202L

29.25

553734



Total OcCB labeled F6

F6:SIR of 14 channels, EI+
441.8008
5.652e+006

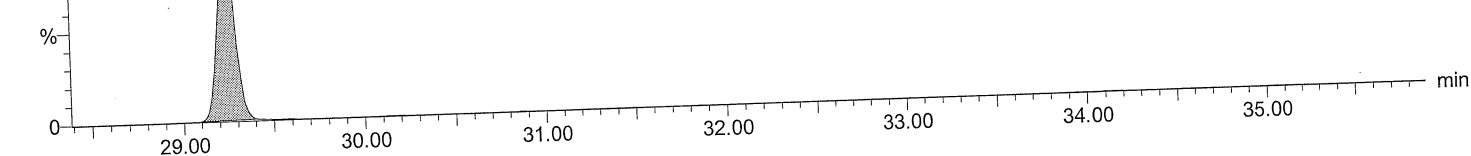
M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

PCB 202L

29.25

603124



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

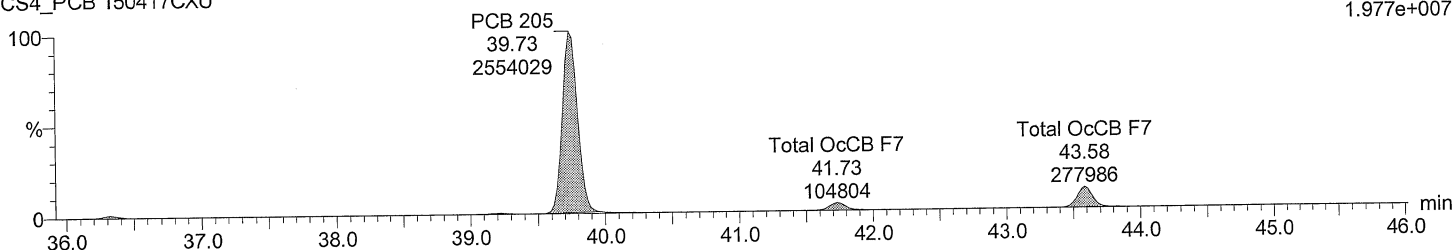
Time: 21:13:41

Instrument: Autospec-UltimaE

Total OcCB F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

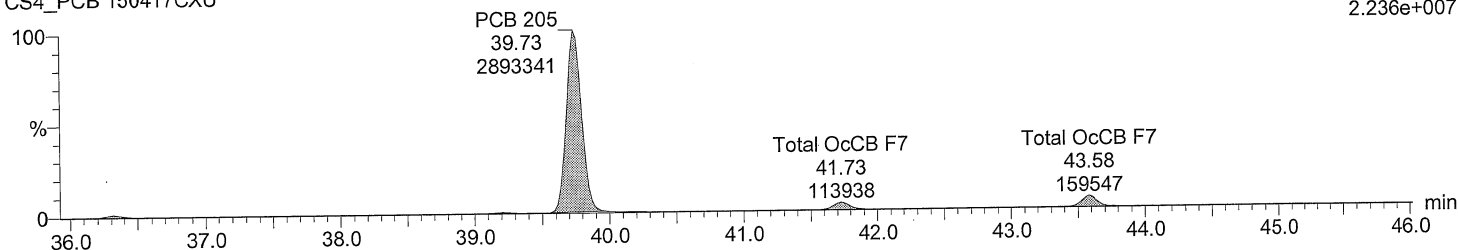
F7:SIR of 18 channels, EI+
 427.7635
 1.977e+007



Total OcCB F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

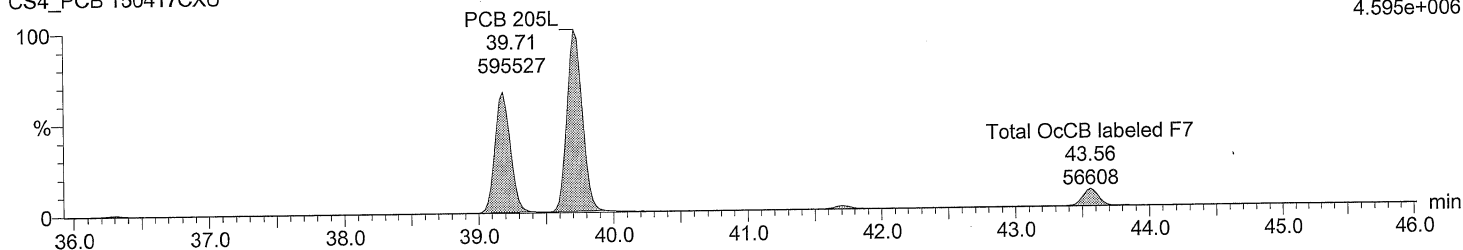
F7:SIR of 18 channels, EI+
 429.7606
 2.236e+007



Total OcCB labeled F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

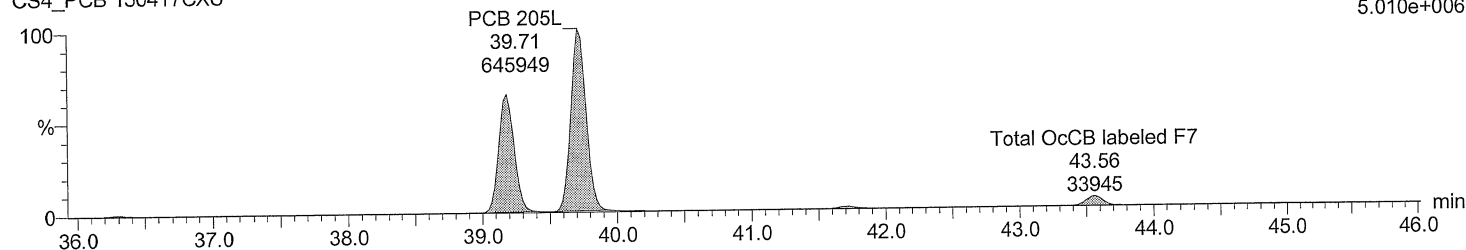
F7:SIR of 18 channels, EI+
 439.8038
 4.595e+006



Total OcCB labeled F7

M2160211AS005 Smooth(SG,3x1)
 CS4_PCB 150417CXU

F7:SIR of 18 channels, EI+
 441.8008
 5.010e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

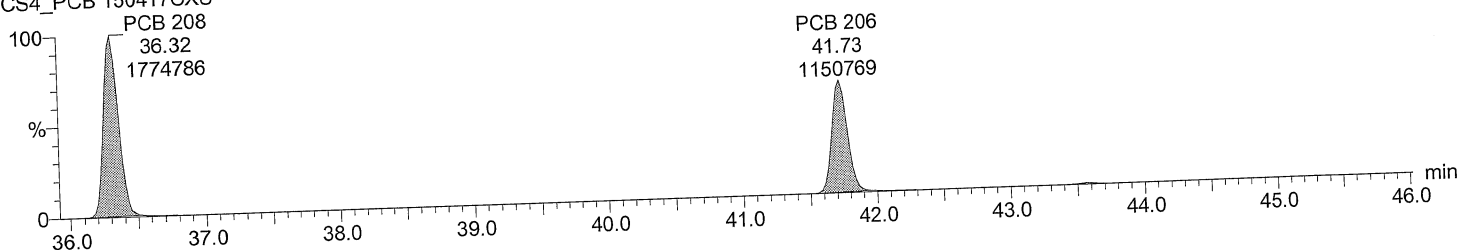
Time: 21:13:41

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

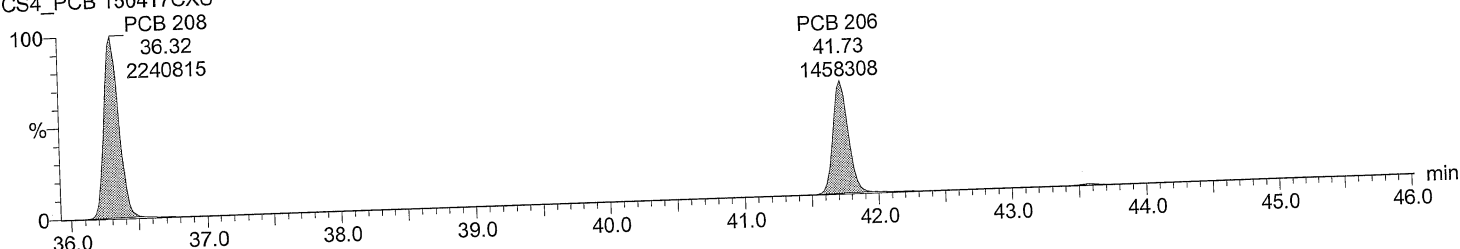
F7:SIR of 18 channels, EI+
461.7246
1.419e+007



Total NoCB F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

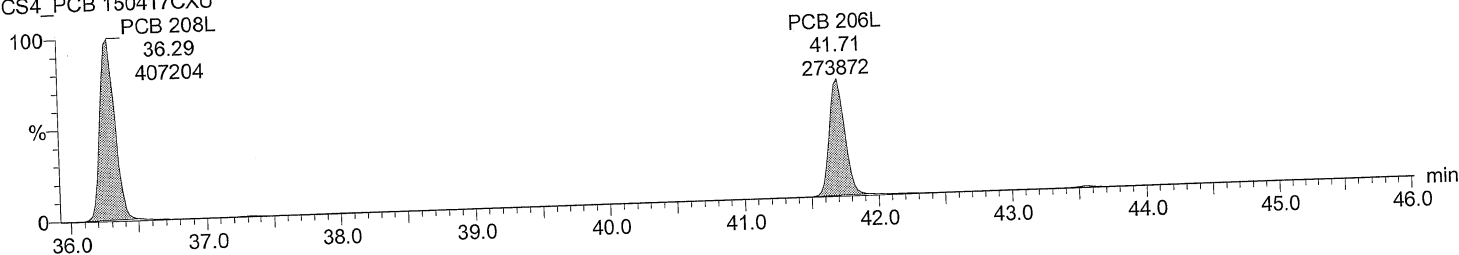
F7:SIR of 18 channels, EI+
463.7216
1.790e+007



Total NoCB labeled F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

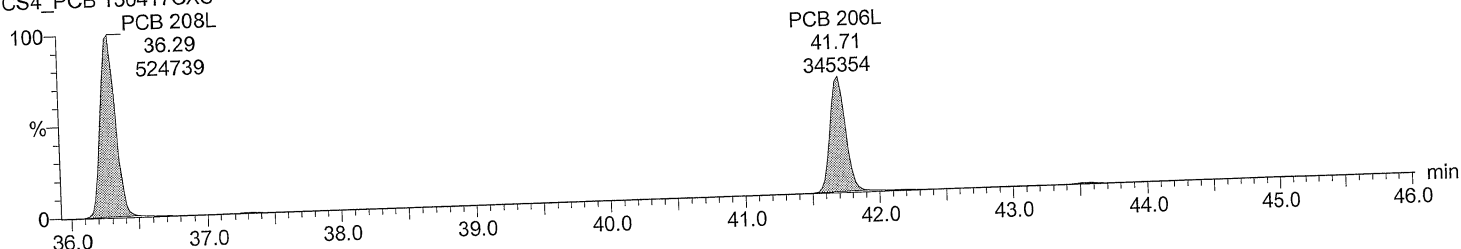
F7:SIR of 18 channels, EI+
473.7648
3.237e+006



Total NoCB labeled F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

F7:SIR of 18 channels, EI+
475.7619
4.150e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

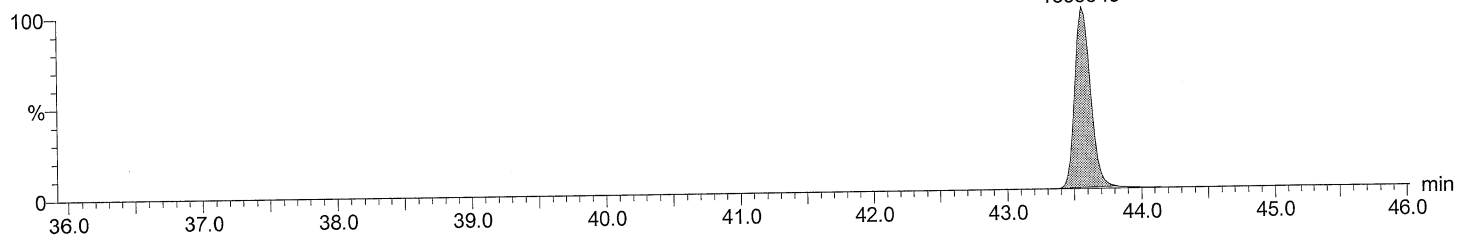
Time: 21:13:41

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

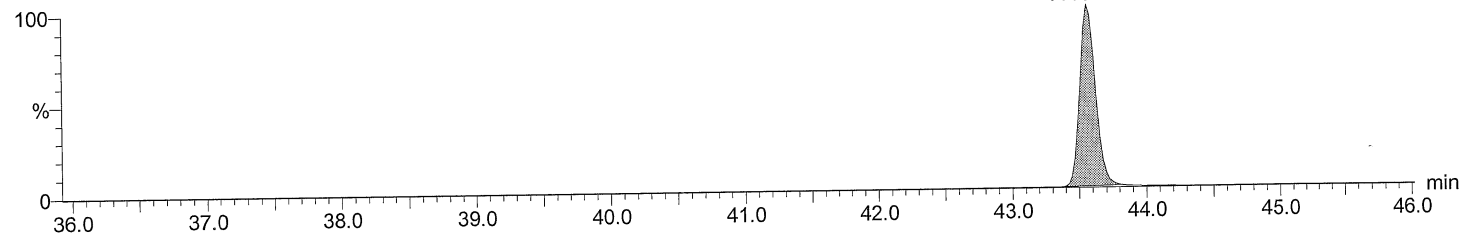
PCB 209 F7:SIR of 18 channels,EI+
43.56 497.6826
1335343 1.011e+007



Total DeCB F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

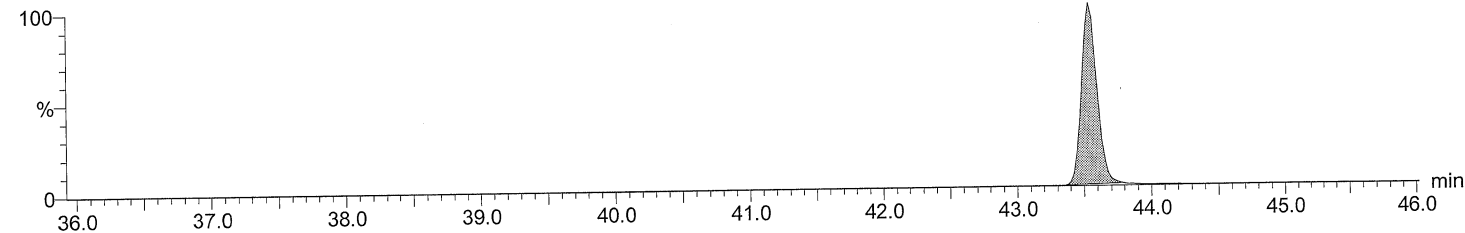
PCB 209 F7:SIR of 18 channels,EI+
43.56 499.6797
1110428 8.424e+006



Total DeCB labeled F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

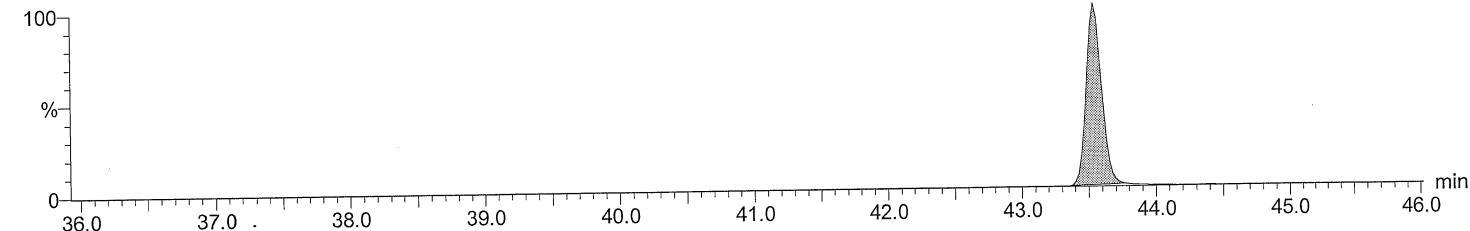
PCB 209L F7:SIR of 18 channels,EI+
43.54 509.7229
317324 2.431e+006



Total DeCB labeled F7

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

PCB 209L F7:SIR of 18 channels,EI+
43.54 511.7199
263610 2.043e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

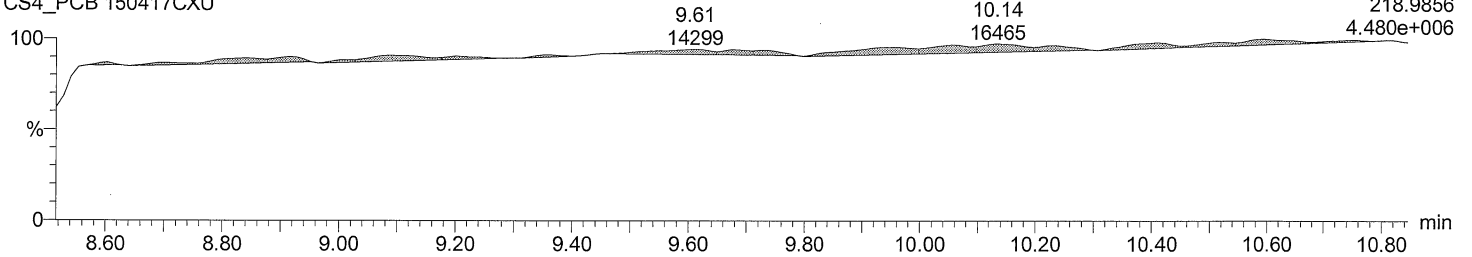
lockmass F1

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

lockmass F1

lockmass F1

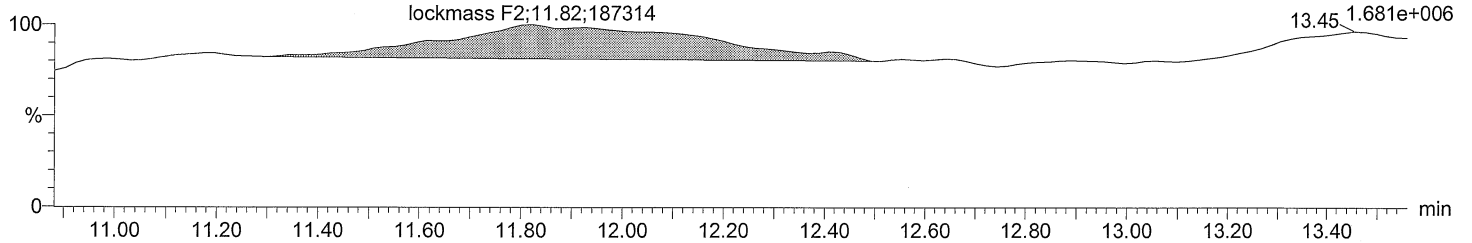
F1:SIR of 10 channels,EI+



lockmass F2

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

F2:SIR of 16 channels,EI+



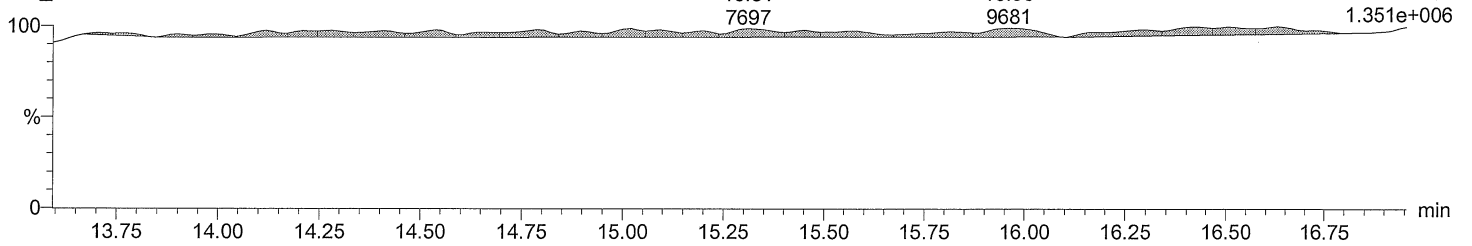
lockmass F3

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

lockmass F3

lockmass F3

F3:SIR of 14 channels,EI+

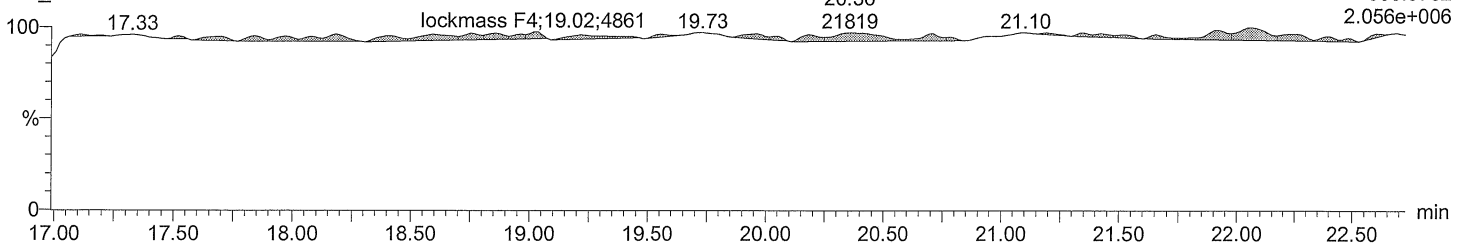


lockmass F4

M2160211AS005 Smooth(SG,3x1)
CS4_PCB 150417CXU

lockmass F4

F4:SIR of 14 channels,EI+



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A_5PT_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS4_PCB 150417CXU

Vial: 5

Date: 11-FEB-2016

Time: 21:13:41

Instrument: Autospec-UltimaE

lockmass F5

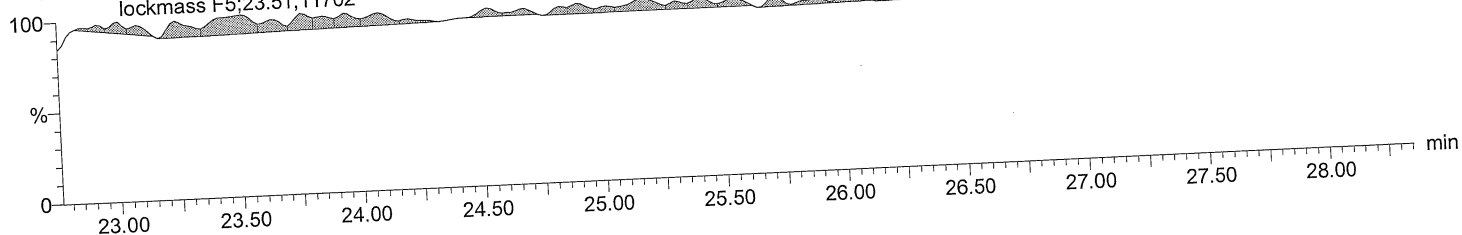
M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

lockmass F5	lockmass F5	lockmass F5	lockmass F5	lockmass F5
25.16	25.72	26.30	26.86	
5834	2310	3663	6494	

F5:SIR of 14 channels,El+
354.9792
6.101e+005

lockmass F5;23.51;11702



lockmass F6

M2160211AS005 Smooth(SG,3x1)

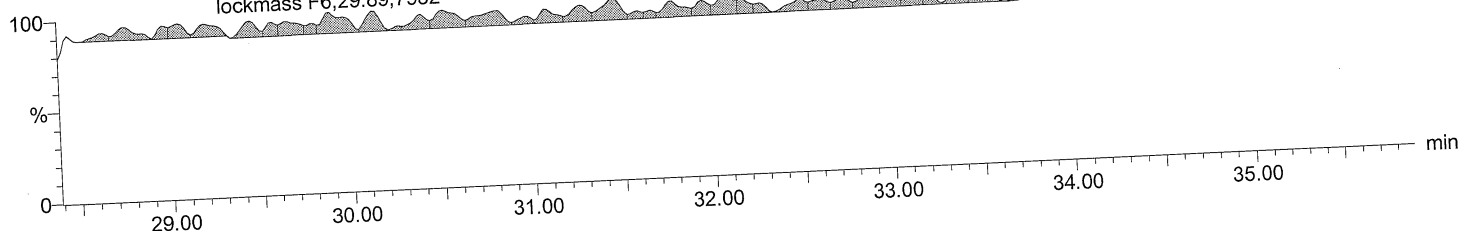
CS4_PCB 150417CXU

lockmass F6	lockmass F6
33.38	34.12
4444	4969

F6:SIR of 14 channels,El+
404.9760
4.574e+005

lockmass F6;29.89;7932

lockmass F6;31.45;7006



lockmass F7

M2160211AS005 Smooth(SG,3x1)

CS4_PCB 150417CXU

lockmass F7	lockmass F7	lockmass F7
42.12	43.03	43.95
4799	4628	3834

F7:SIR of 18 channels,El+
454.9728
3.911e+005

lockmass F7;37.12;4983

lockmass F7;39.82;5061

