

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**

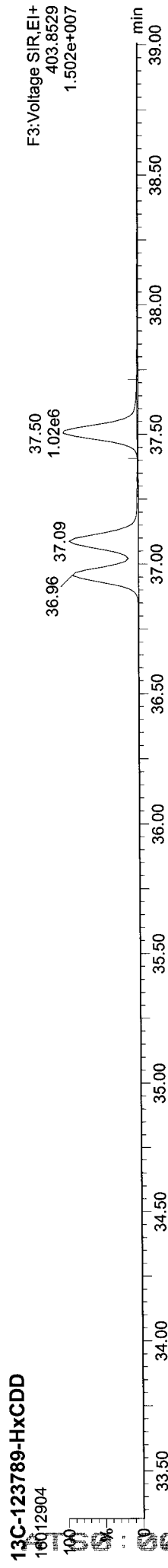
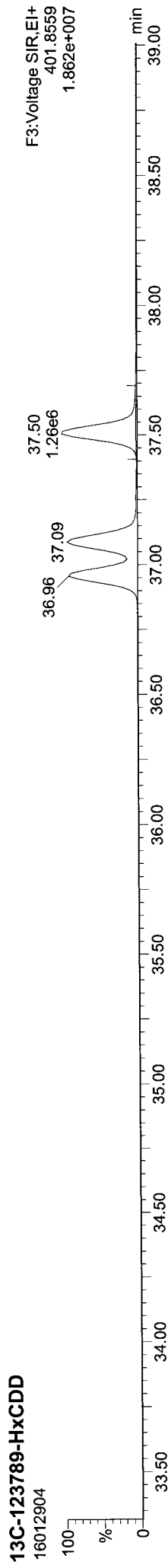
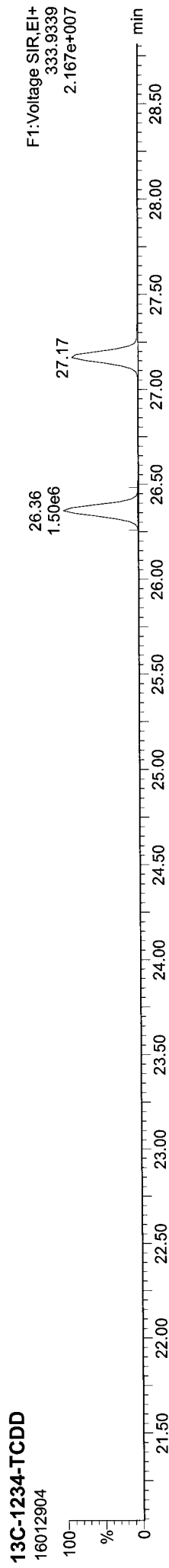
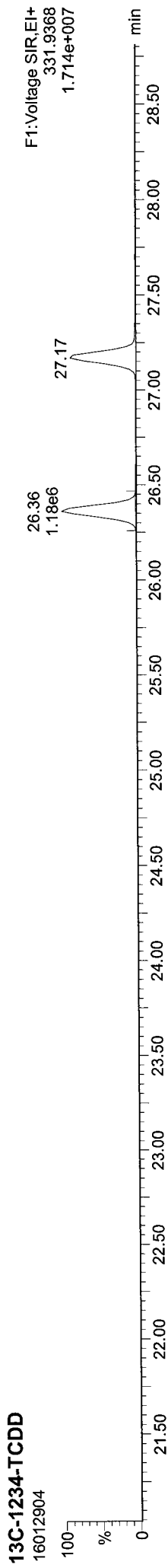
	# Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

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 12:08:22 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

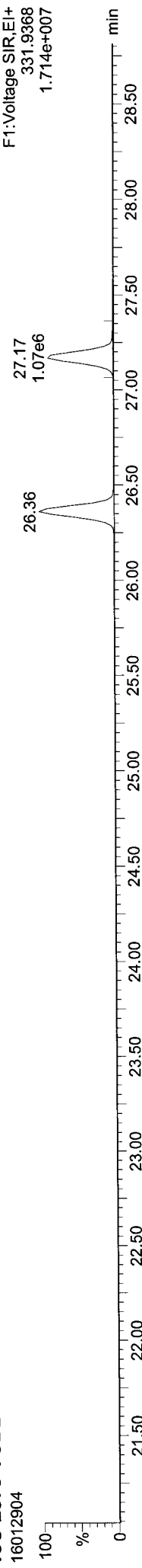
ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk



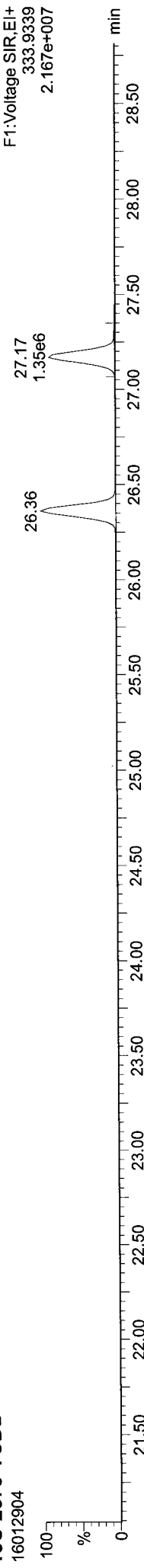
**Quantify Sample Report** MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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**ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk**

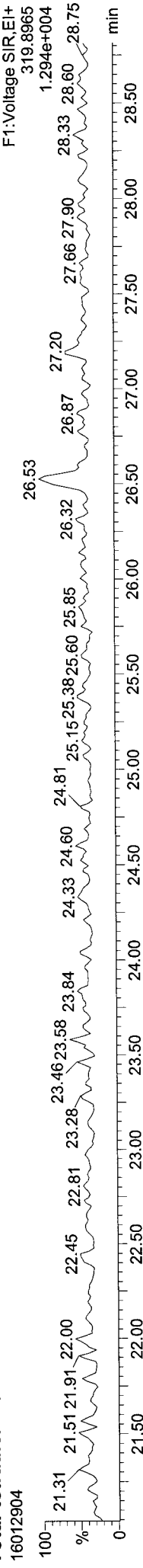
**13C-2378-TCDD**



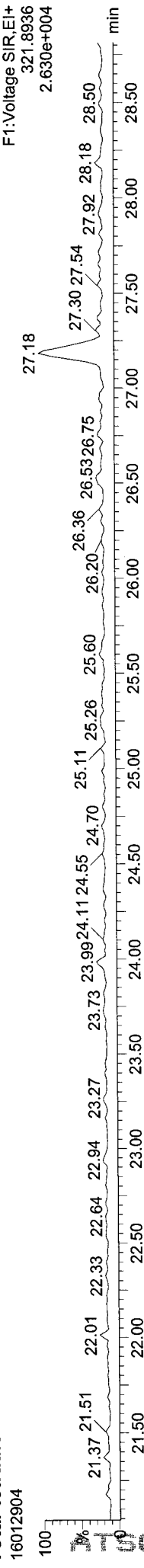
**13C-2378-TCDD**



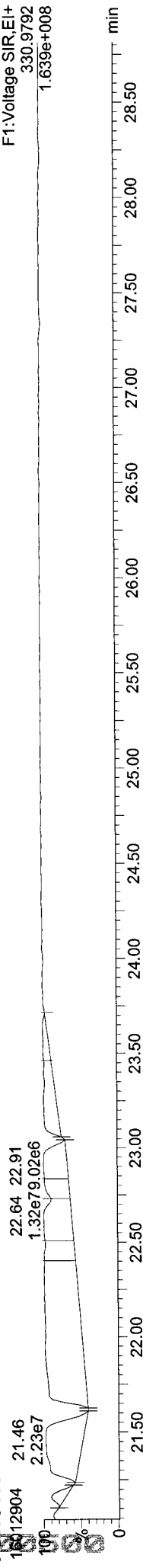
**Total-tetradoxins**



**Total-tetradoxins**



**FUNCTION1 PFK**

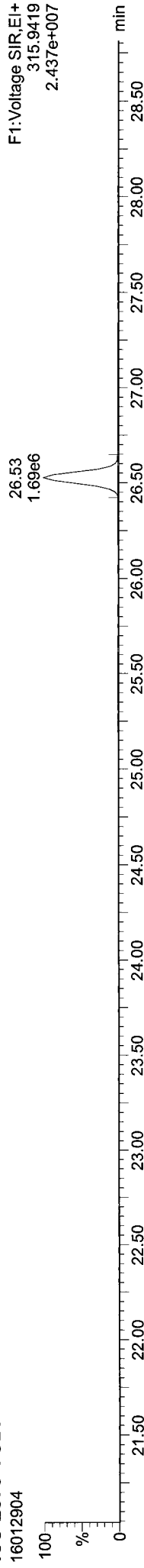


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

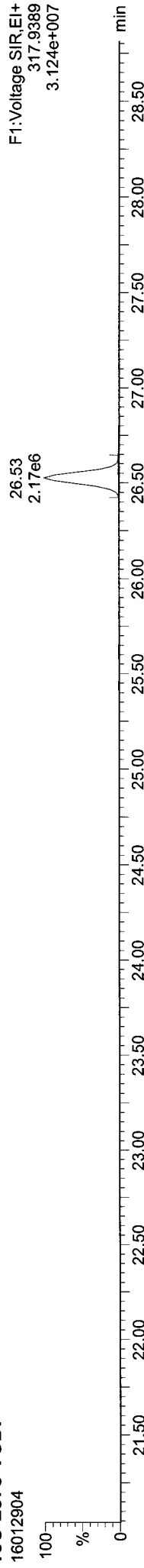
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

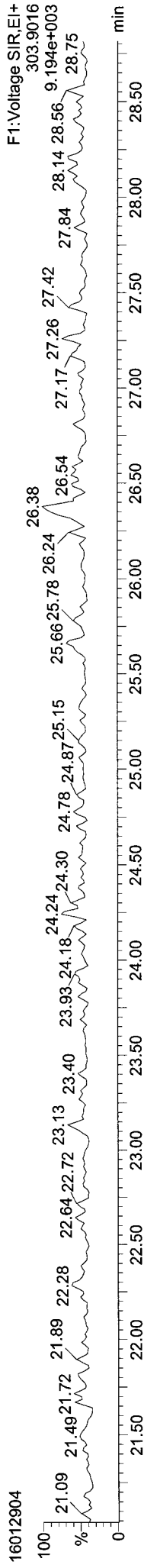
13C-2378-TCDF



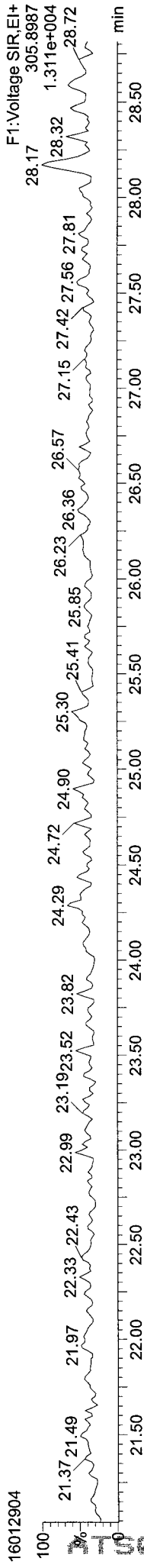
13C-2378-TCDF



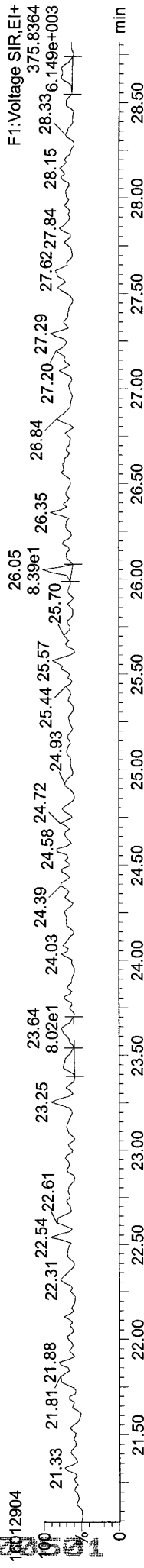
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



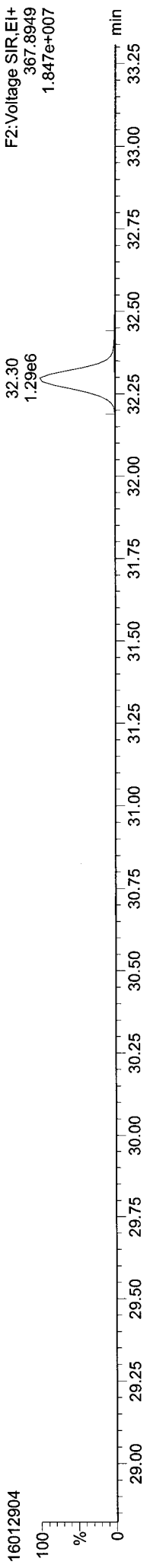


Quantify Sample Report MassLynx V4.1 SCN909

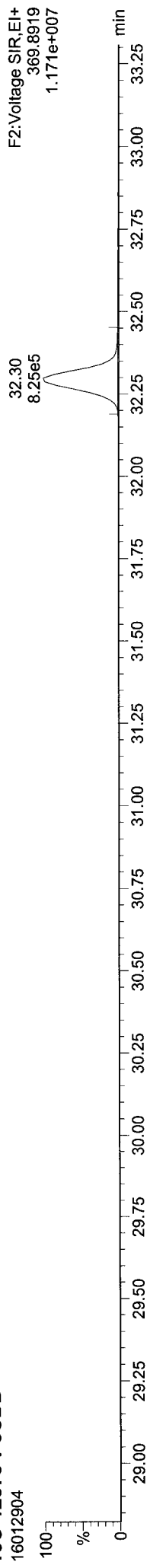
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

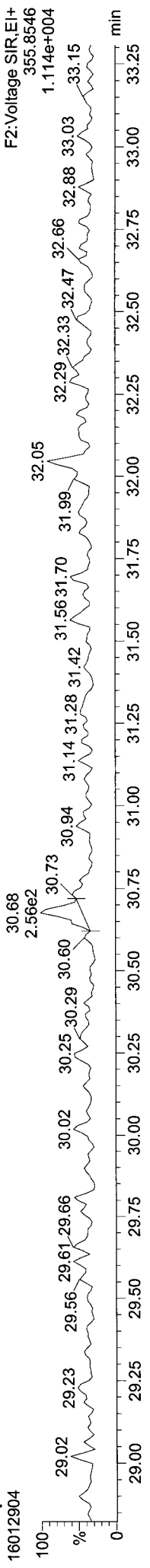
13C-12378-PeCDD



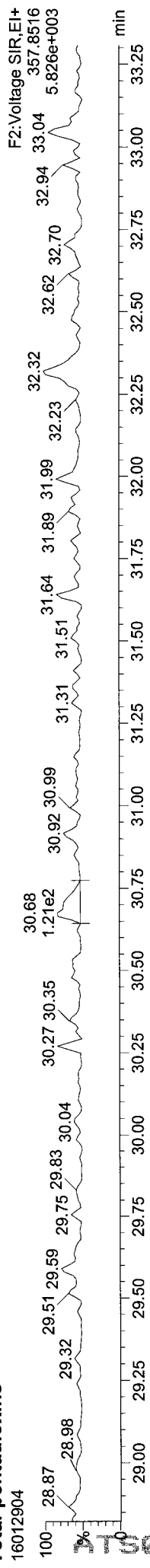
13C-12378-PeCDD



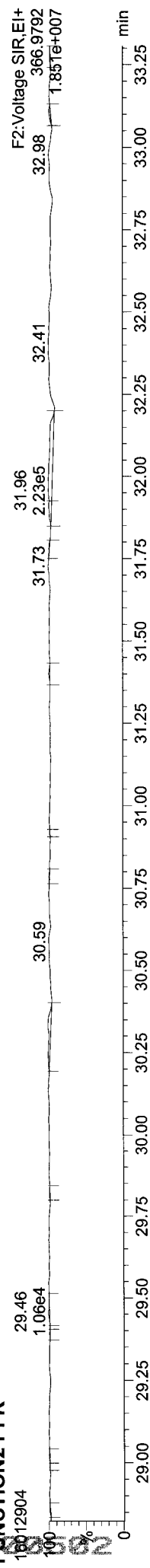
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

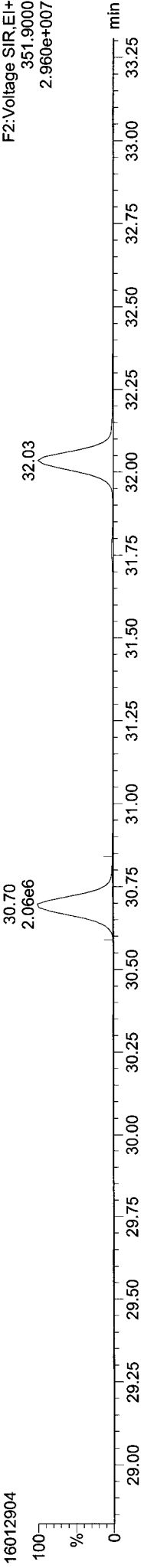


Quantify Sample Report MassLynx V4.1 SCN909

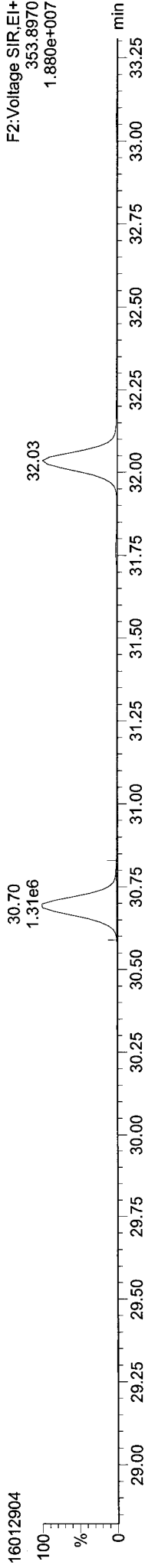
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

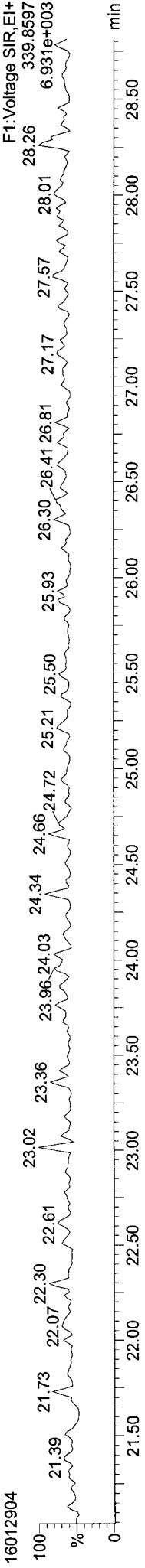
13C-12378-PeCDF



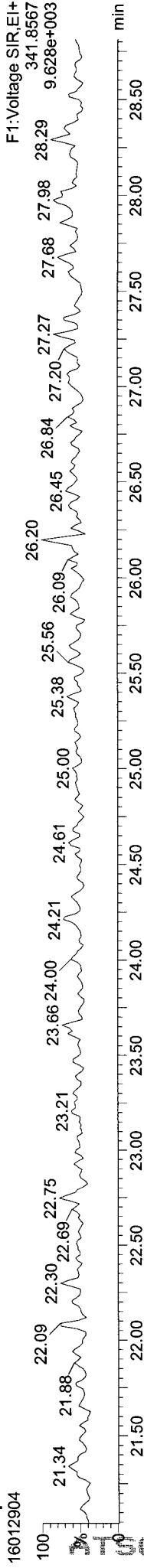
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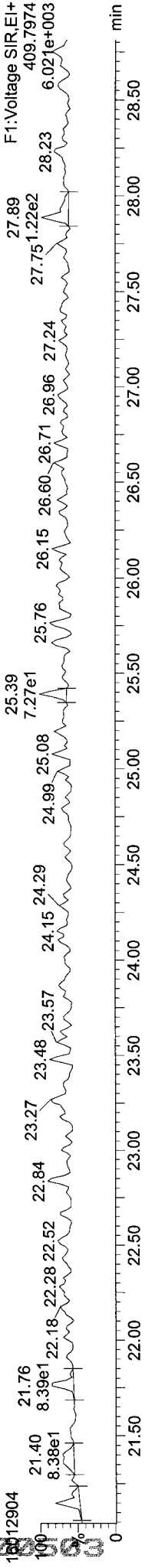
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

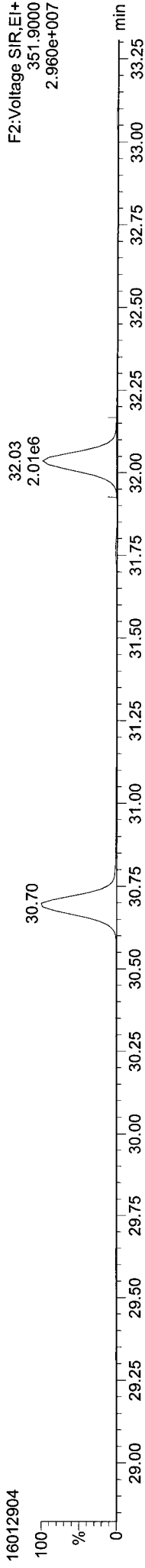


Quantify Sample Report MassLynx V4.1 SCN909

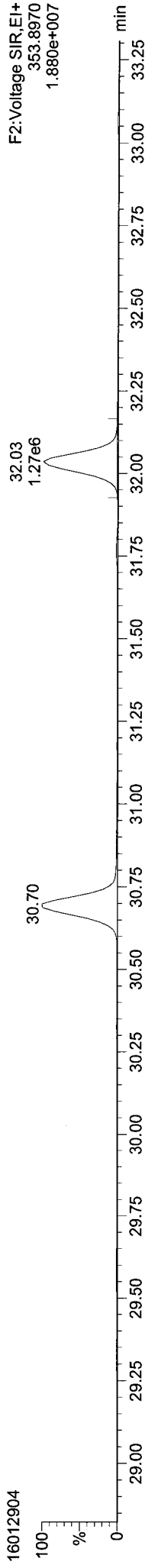
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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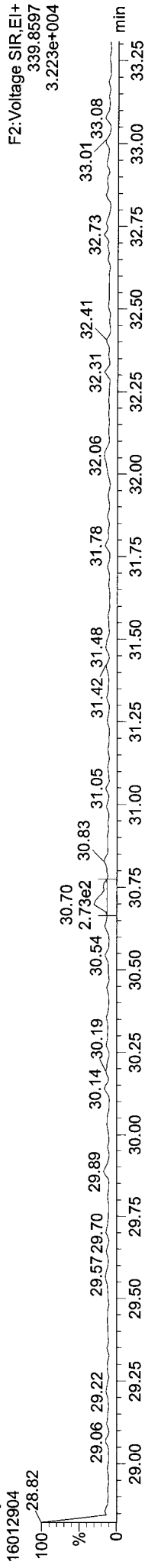
13C-23478-PeCDF



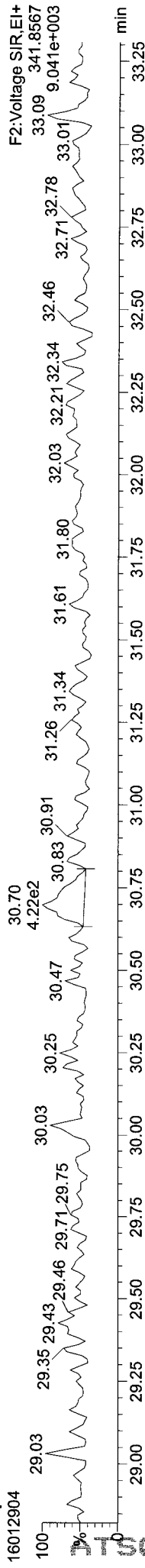
13C-23478-PeCDF



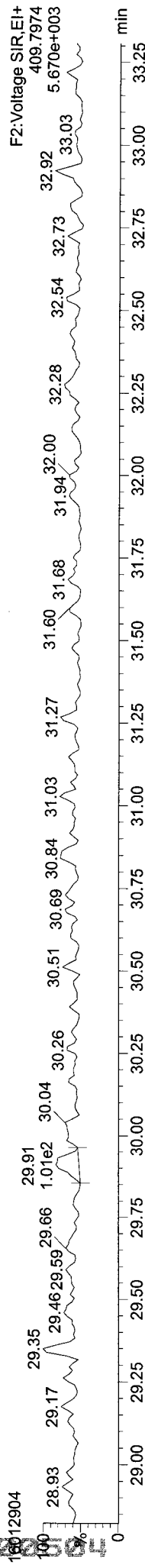
Total-pentafurans



Total-pentafurans



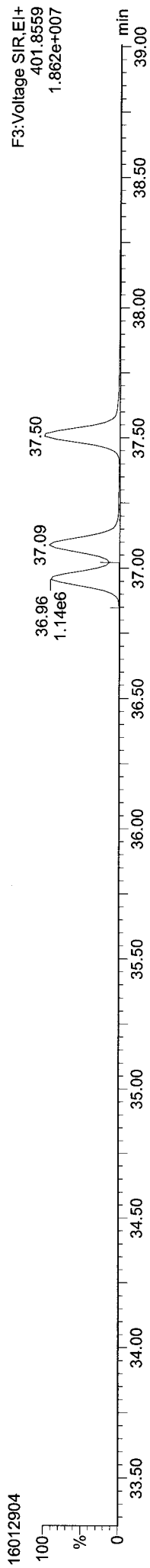
FUNCTION2 HPCDPE



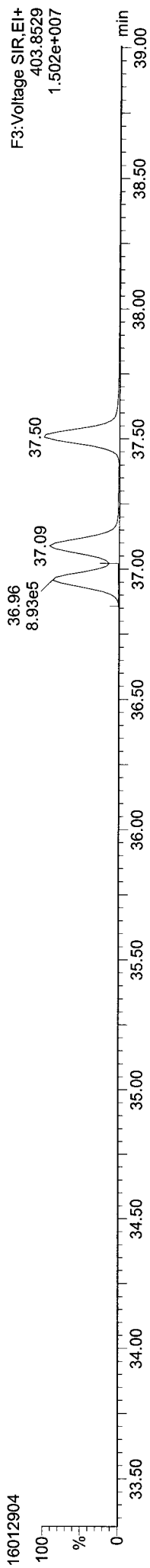
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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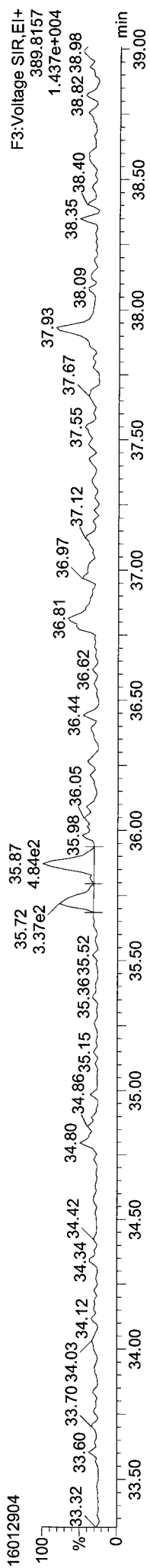
13C-123478-HxCDD



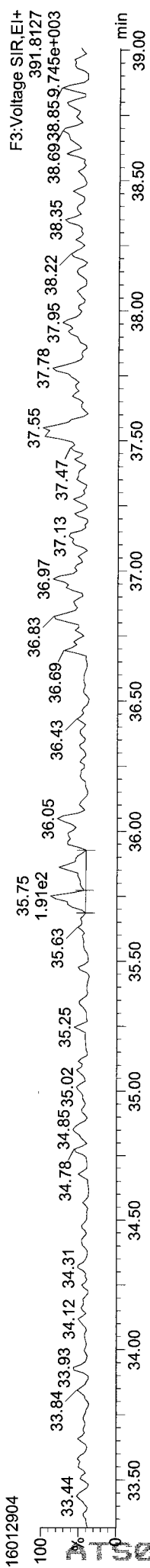
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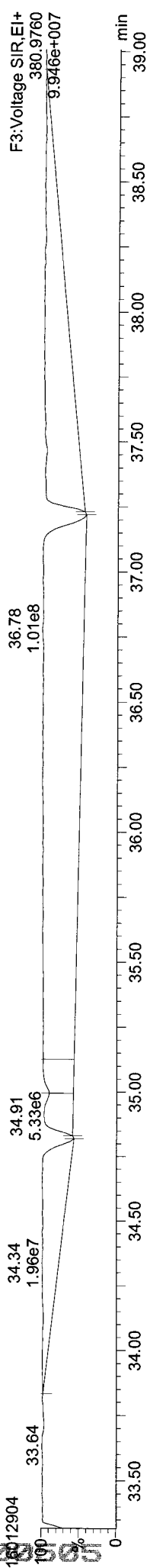
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

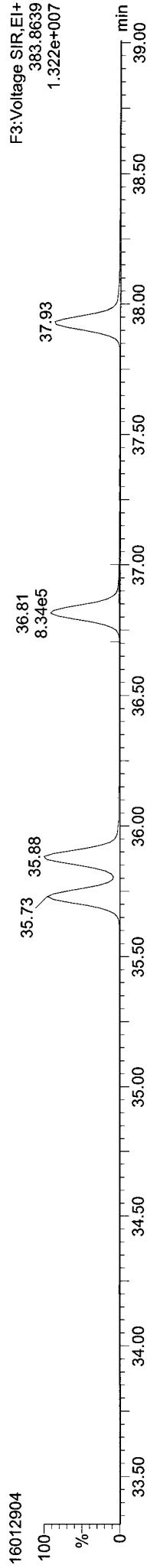
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

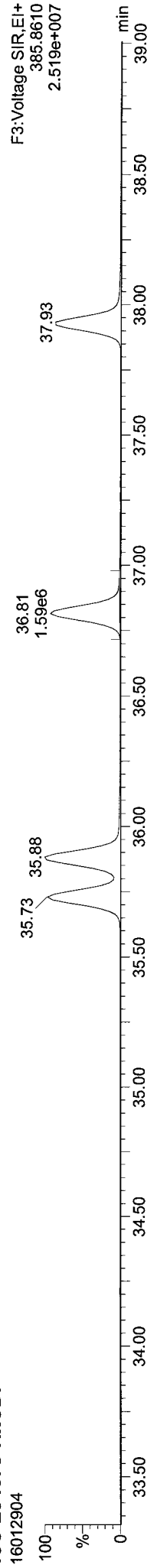
Printed: Monday, February 01, 2016 12:08:22 Pacific Standard Time

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

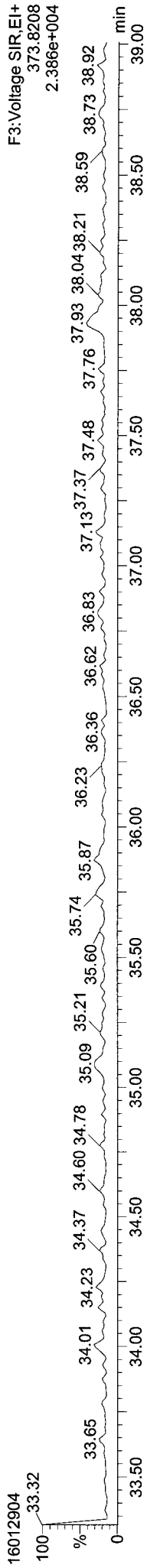
13C-234678-HxCDF



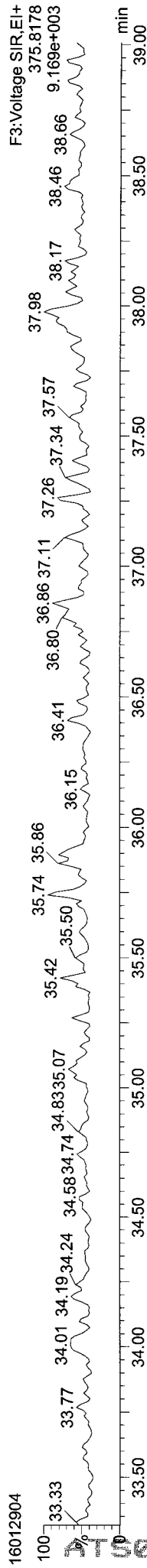
13C-234678-HxCDF



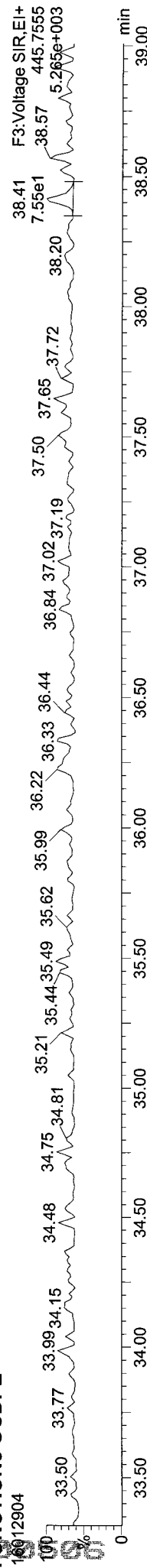
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Quantify Sample Report MassLynx V4.1 SCN909

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

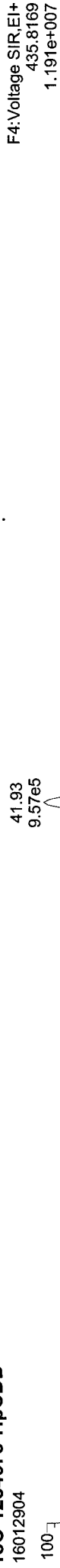
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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

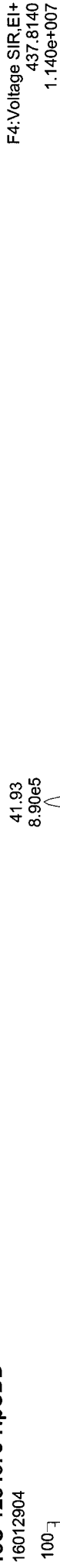
13C-1234678-HpCDD

16012904



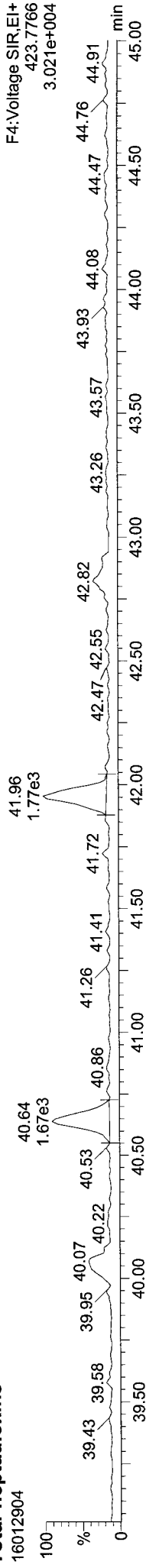
13C-1234678-HpCDD

16012904



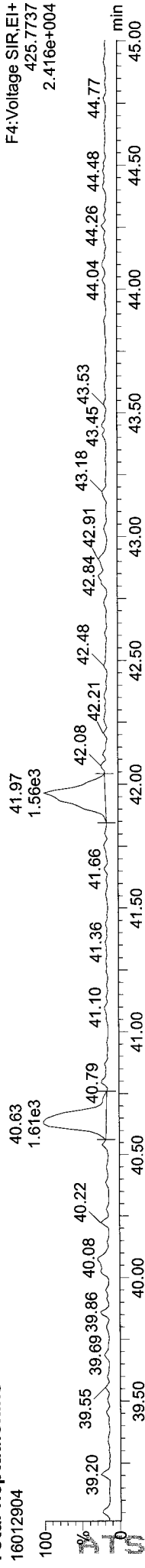
Total-heptadioxins

16012904



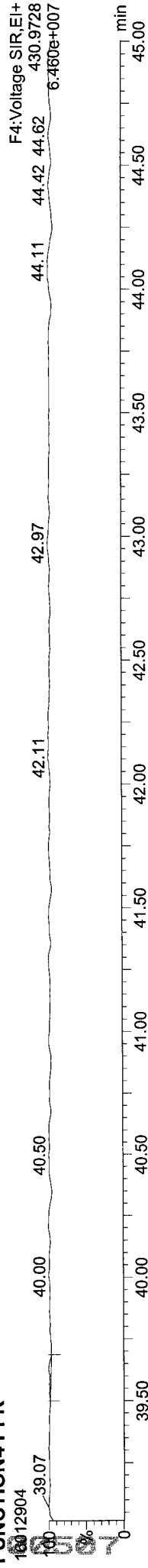
Total-heptadioxins

16012904



FUNCTION4 PFK

16012904

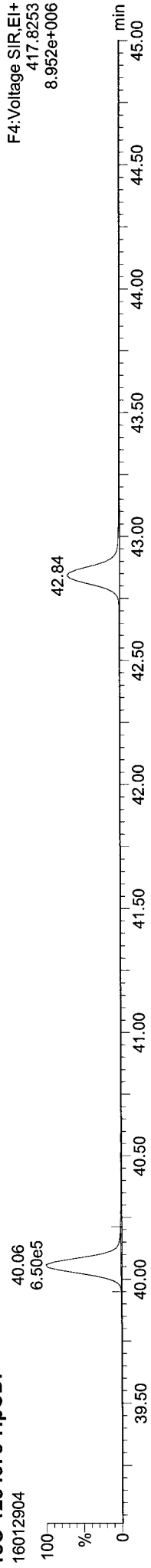


Quantify Sample Report MassLynx V4.1 SCN909

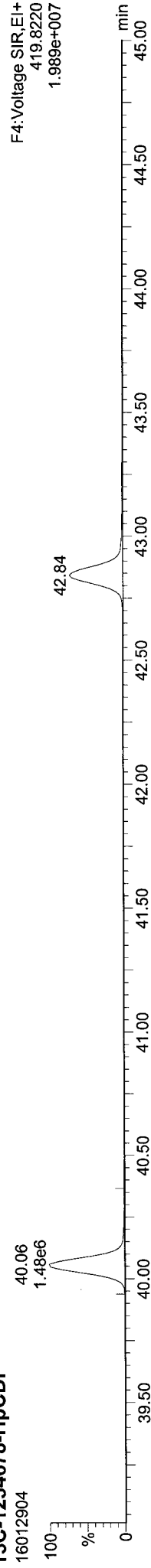
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
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ID: AT50MBT, Name: 16012904, Date: 29-Jan-2016, Time: 14:28:15, Conditions: AUTOSPEC01, User: pk

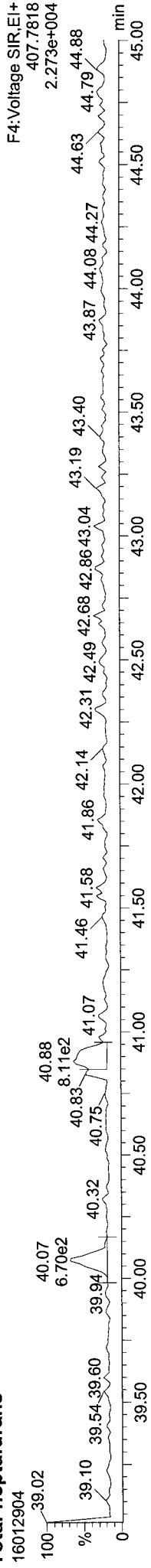
13C-1234678-HpCDF



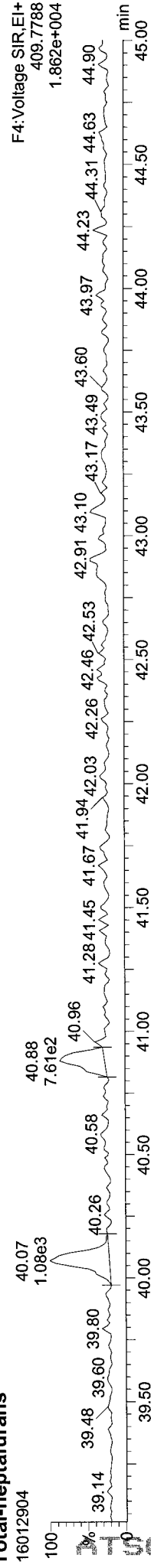
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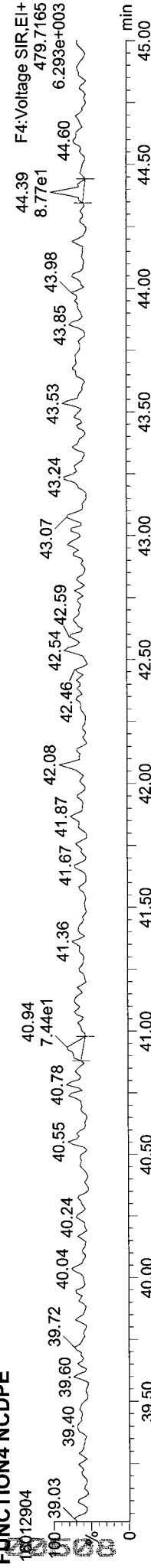
Total-heptafurans



Total-heptafurans



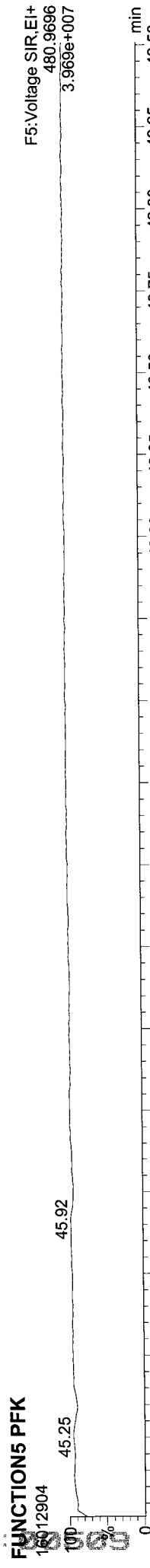
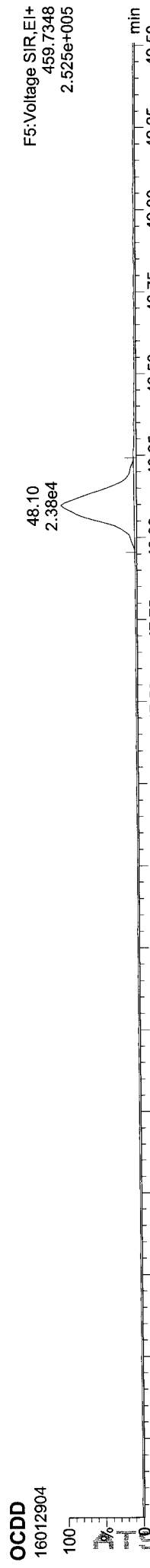
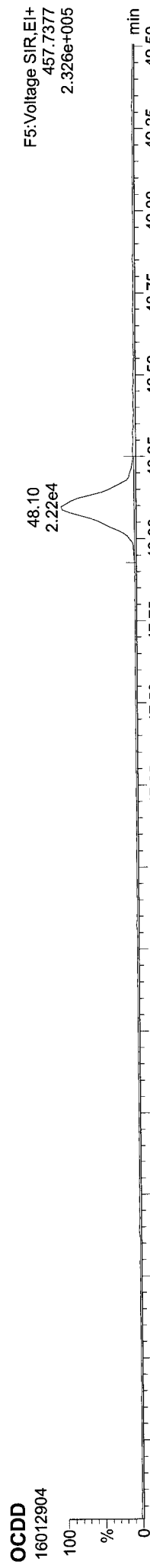
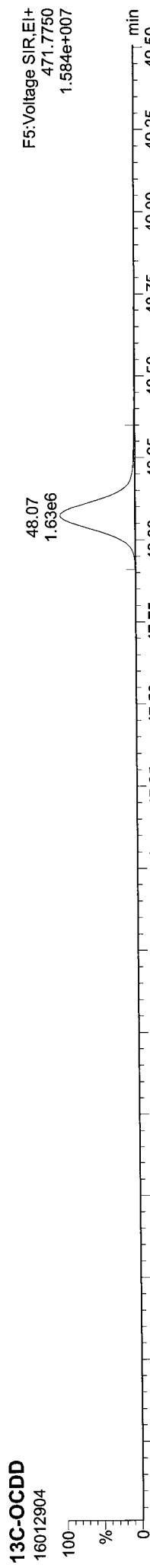
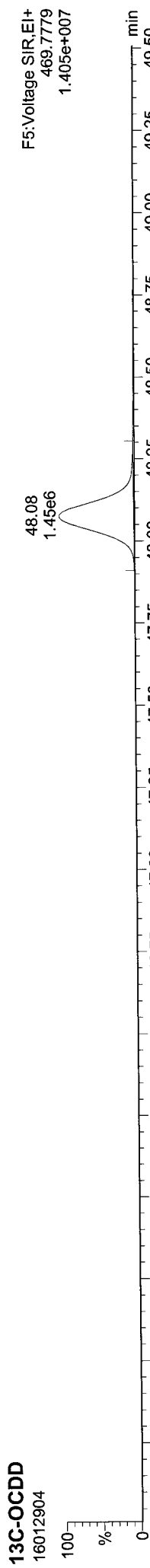
FUNCTION4 NCDPE



Quantify Sample Report MassLynx V4.1 SCN909

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Quantify Sample Report MassLynx V4.1 SCN909

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

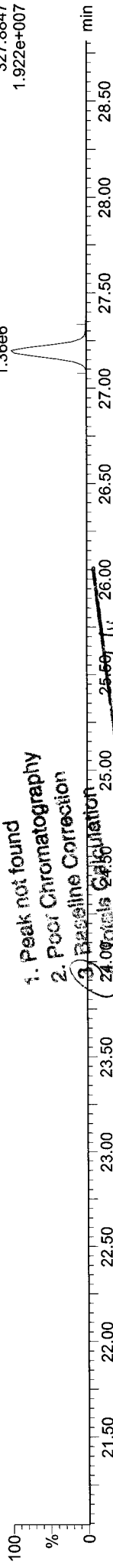
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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

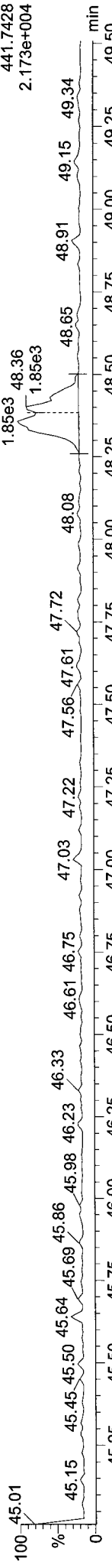


MANUAL ADJUSTMENTS

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

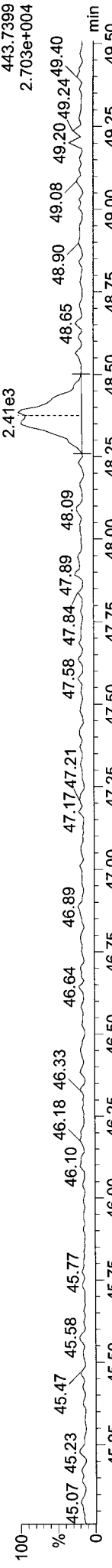
OCDF

16012904



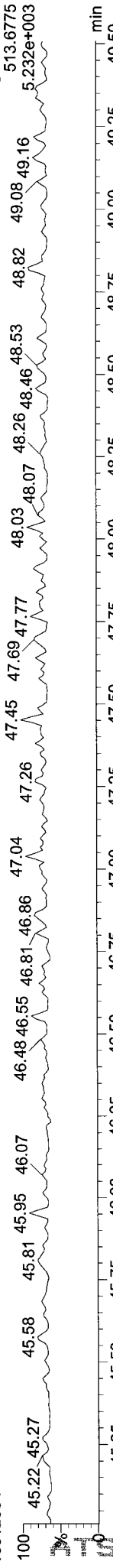
OCDF

16012904



FUNCTION5 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  
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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

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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-tetradioxins	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

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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-tetradiioxins	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-hexadiioxins	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-pentadiioxins	355.8546	31.63	1621.593	0.939	0.082		1.79	1.55	YES	9.4
31	43 Total-hexadiioxins	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-hexadiioxins	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-heptadiioxins	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

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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



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**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

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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

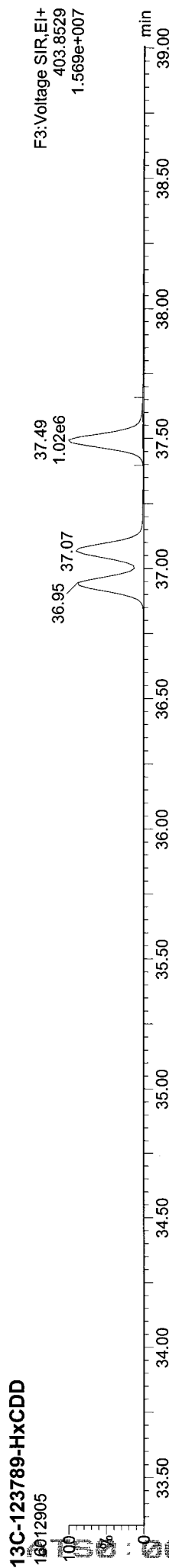
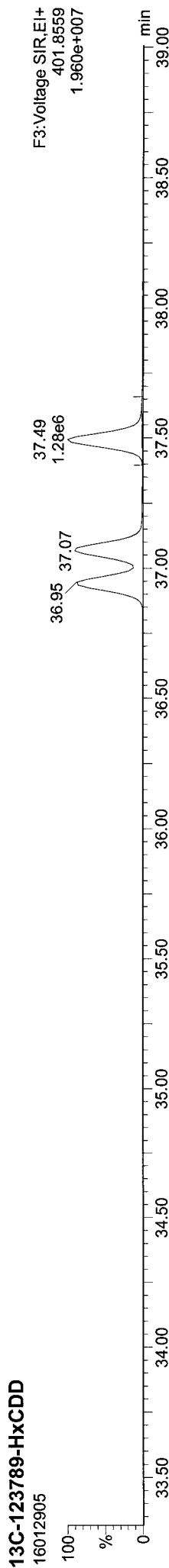
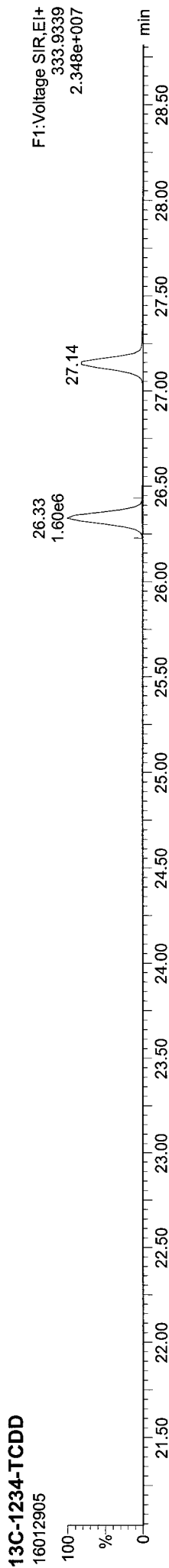
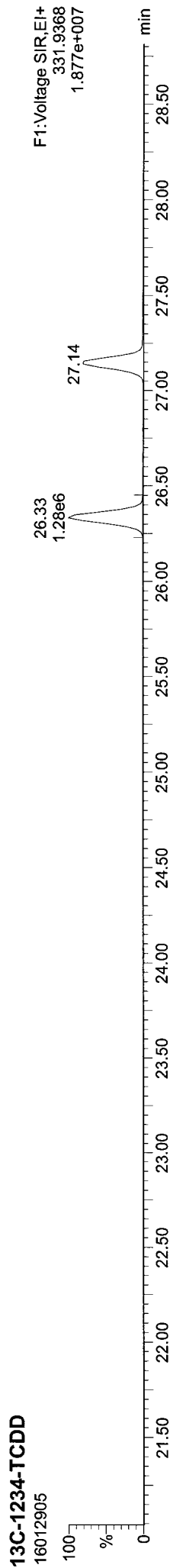
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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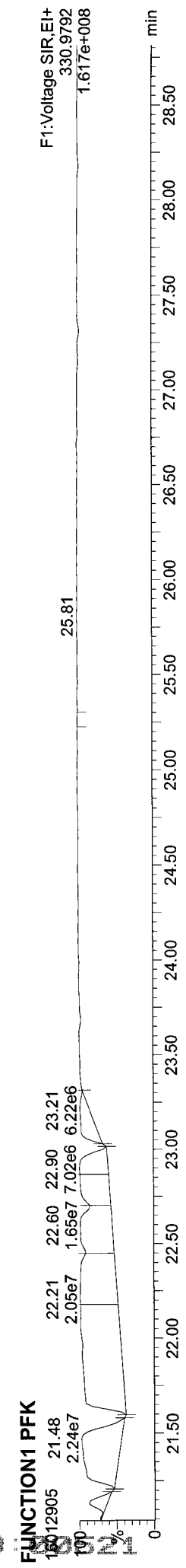
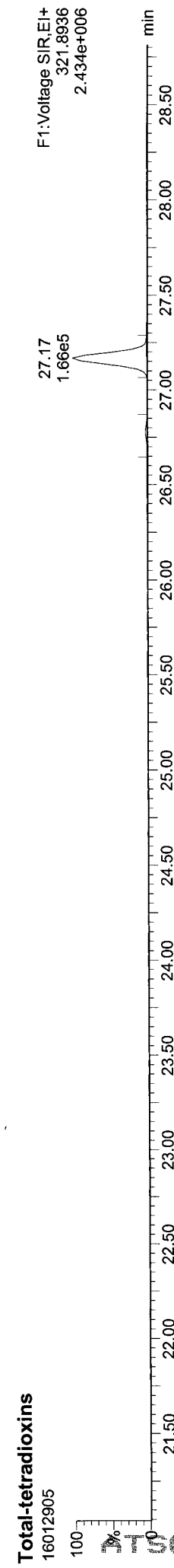
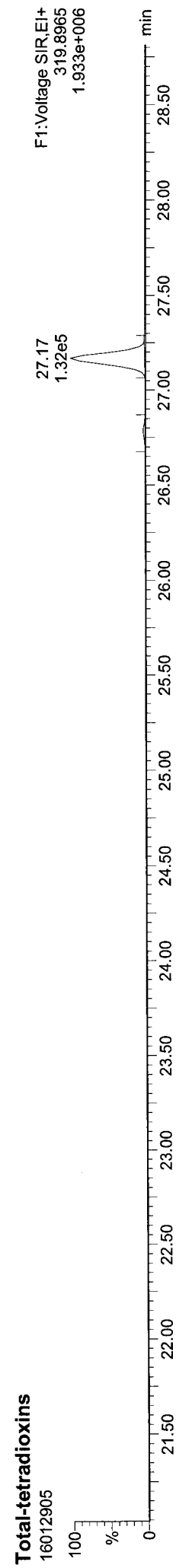
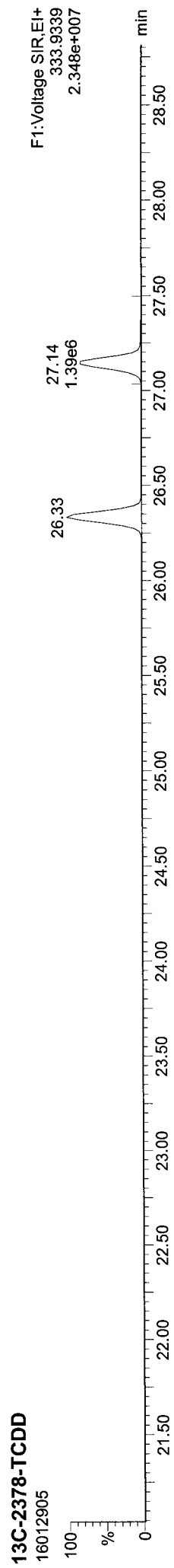
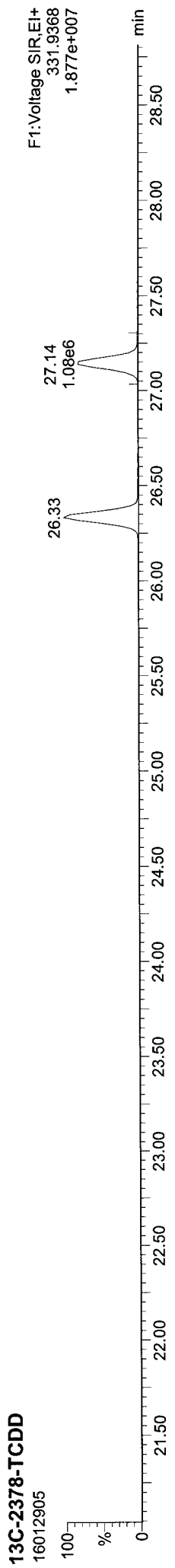
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Quantify Sample Report MassLynx V4.1 SCN909

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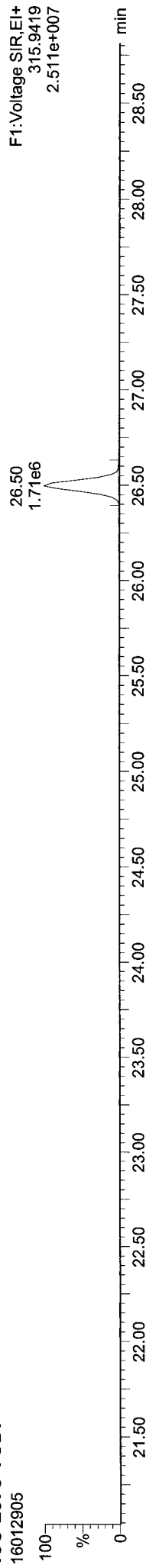
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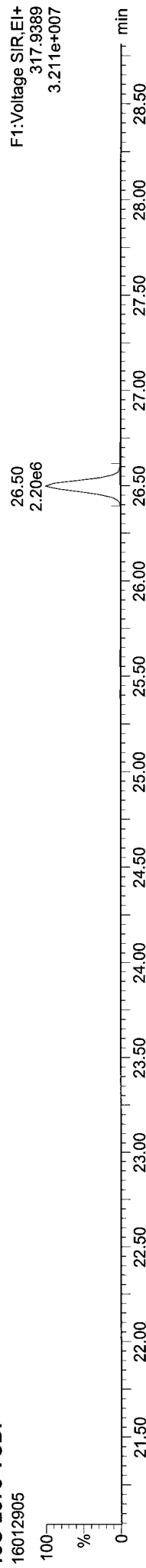
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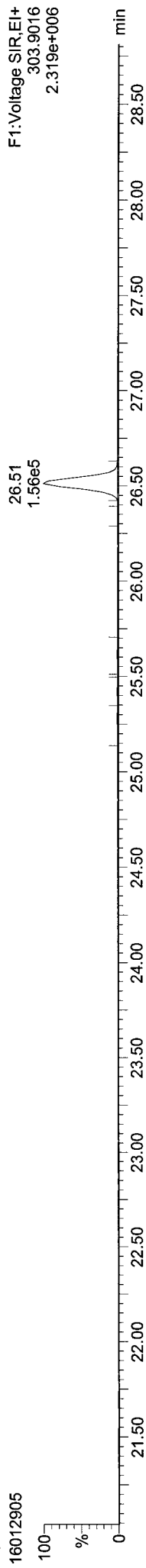
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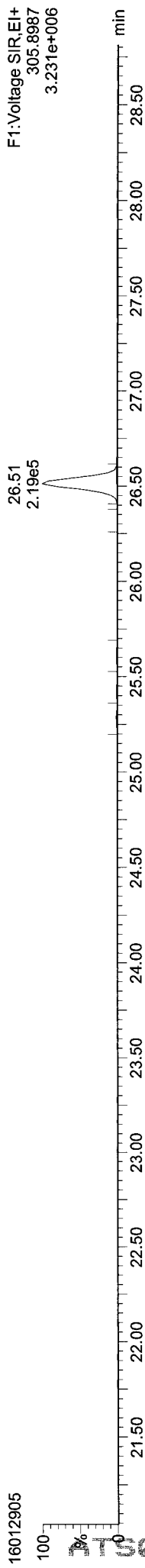
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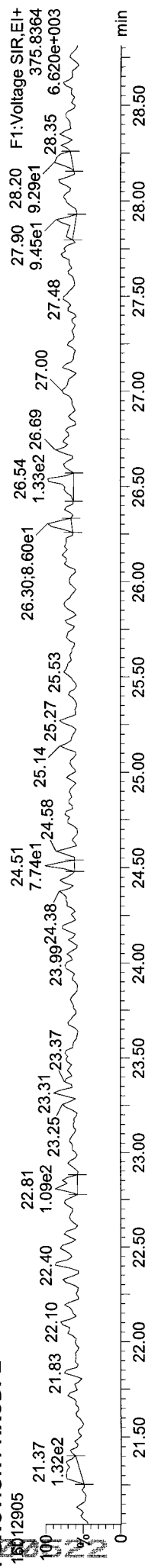
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE



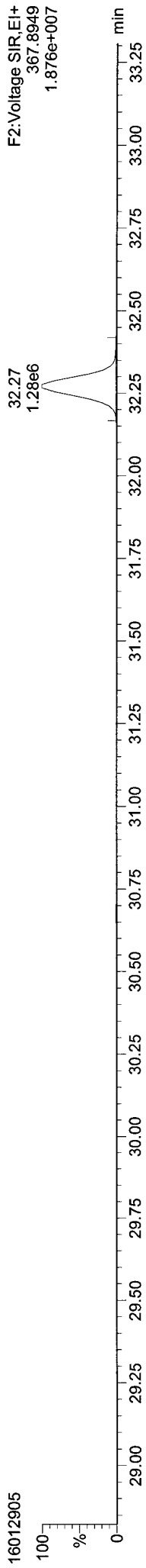
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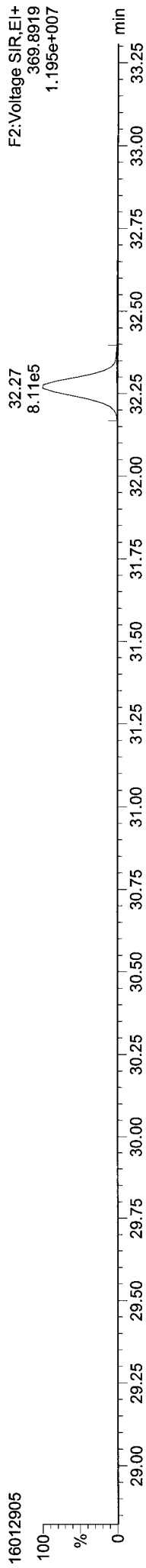
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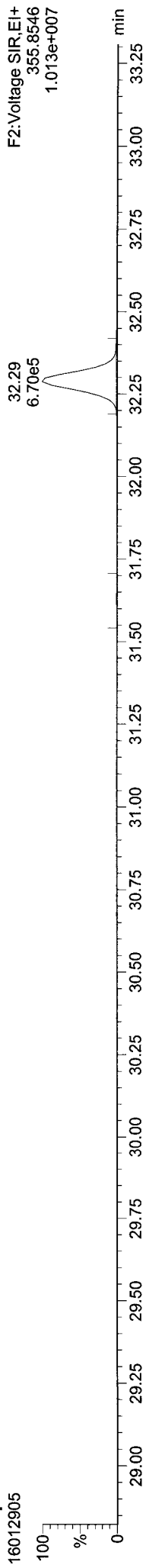
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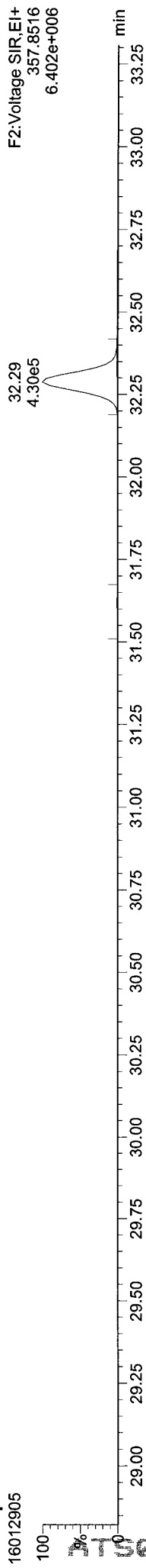
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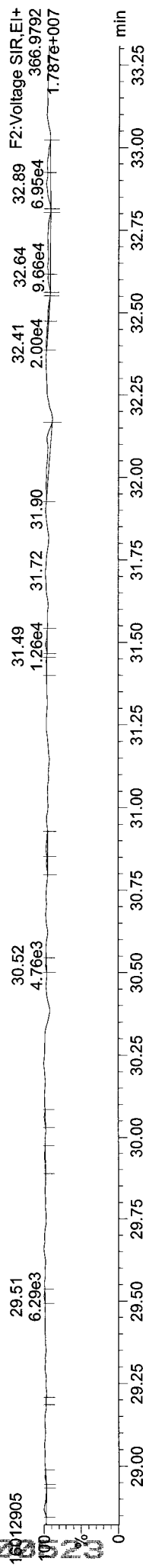
Total-pentadioxins



Total-pentadioxins



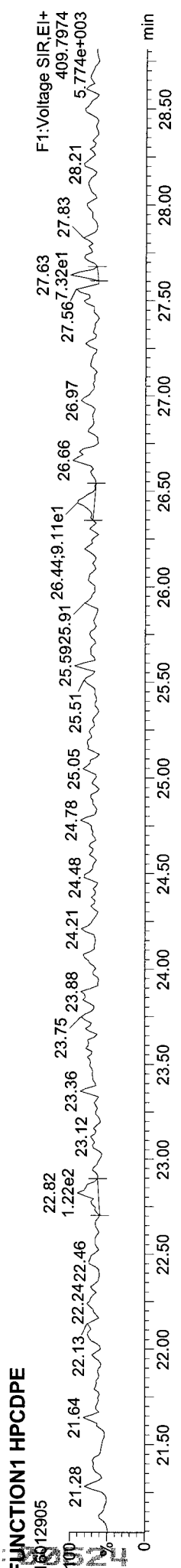
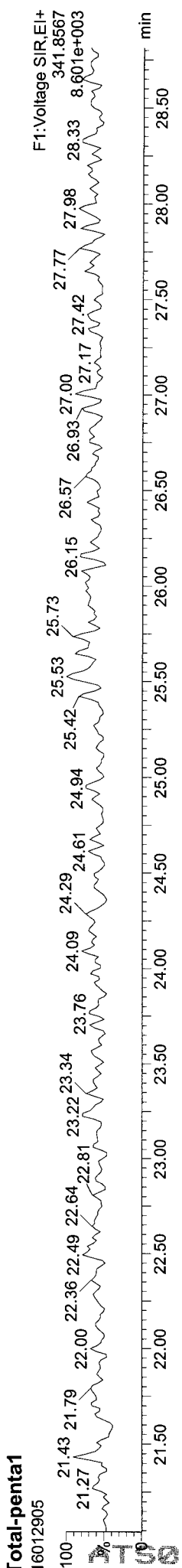
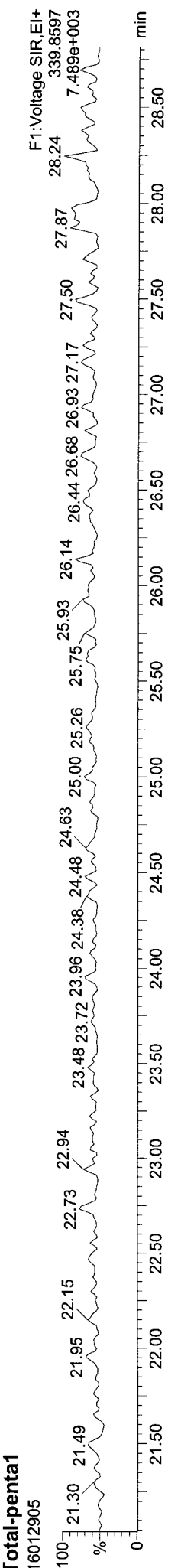
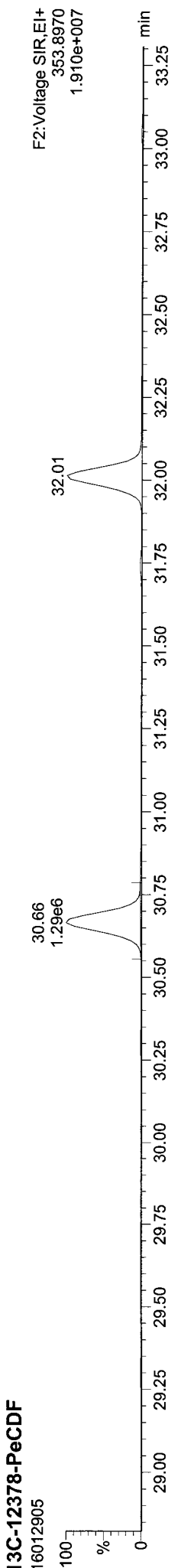
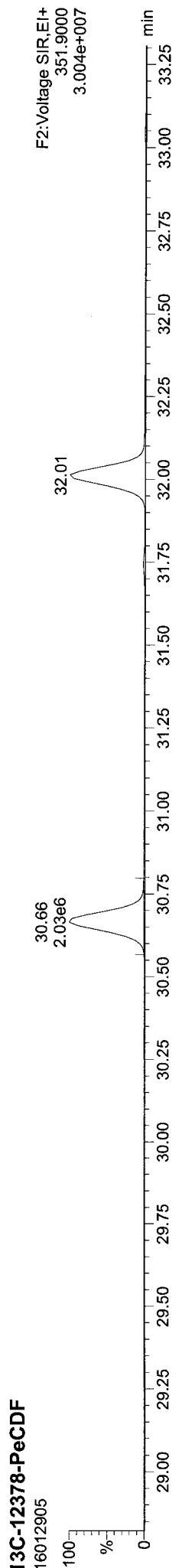
FUNCTION2 PFK



Quantify Sample Report MassLynx V4.1 SCN909

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

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



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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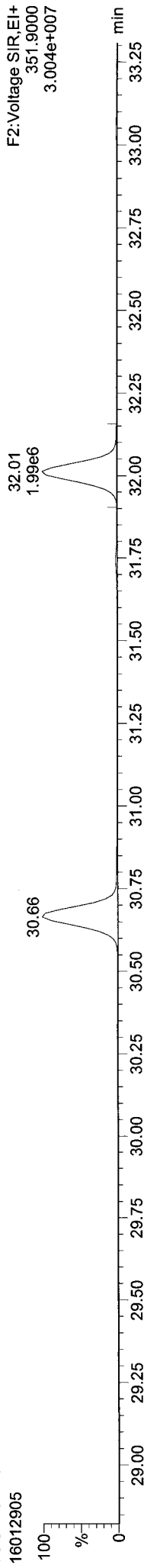
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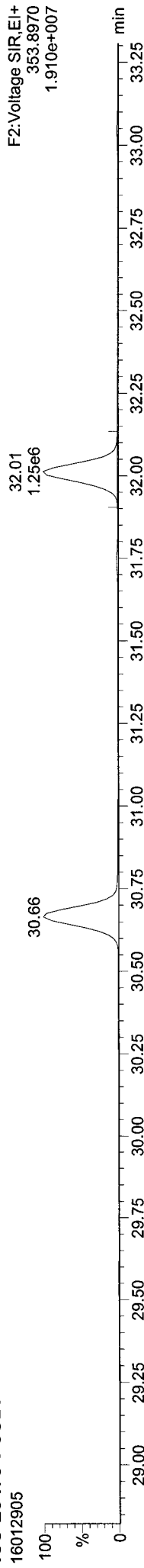
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16012905



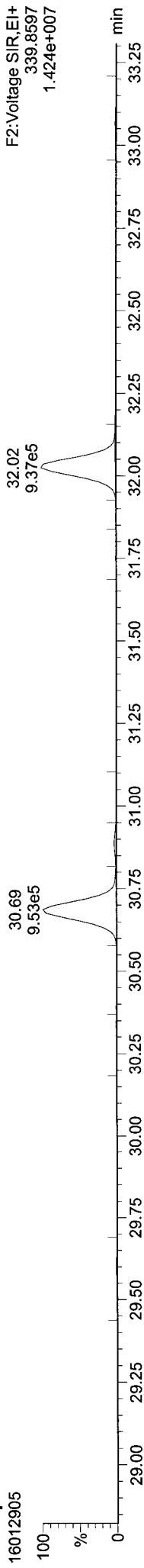
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16012905



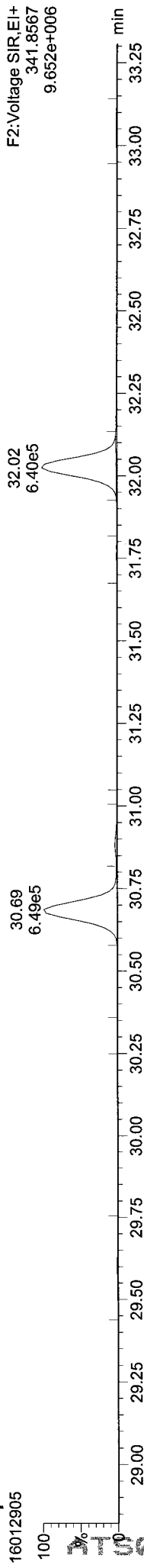
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16012905



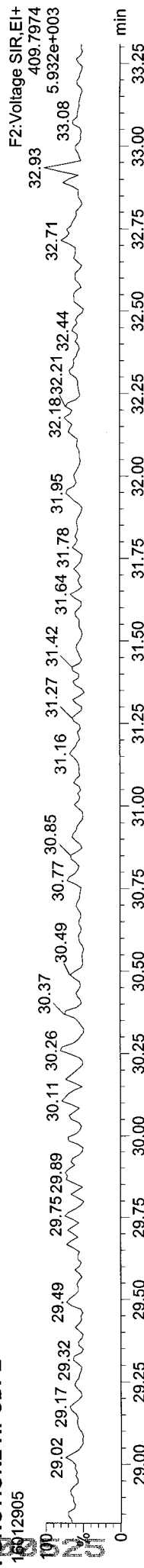
Total-pentafurans

16012905



FUNCTION2 HPCDPE

16012905



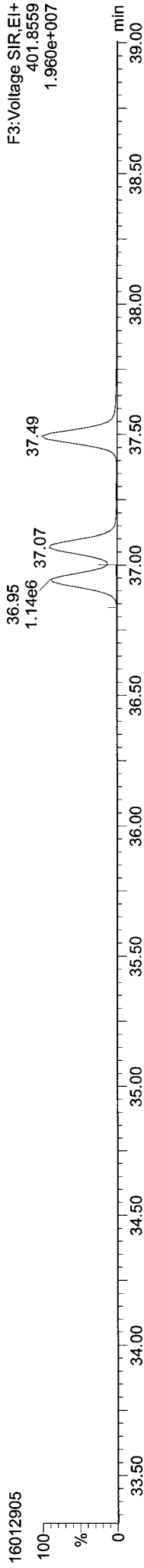


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

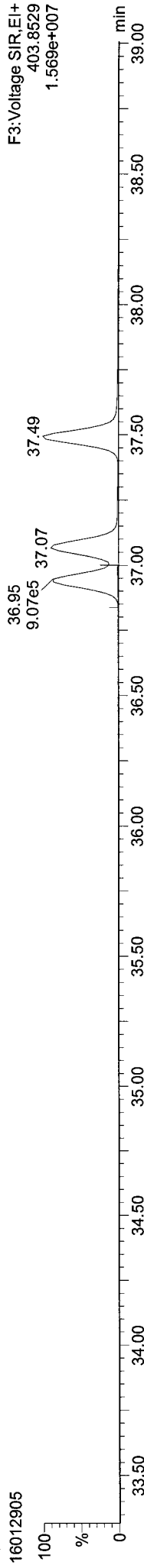
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

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

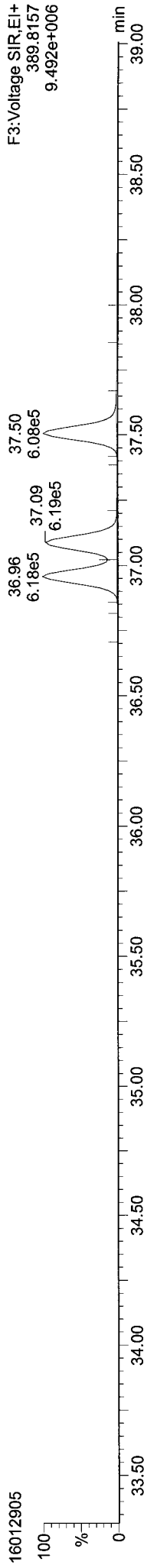
13C-123478-HxCDD



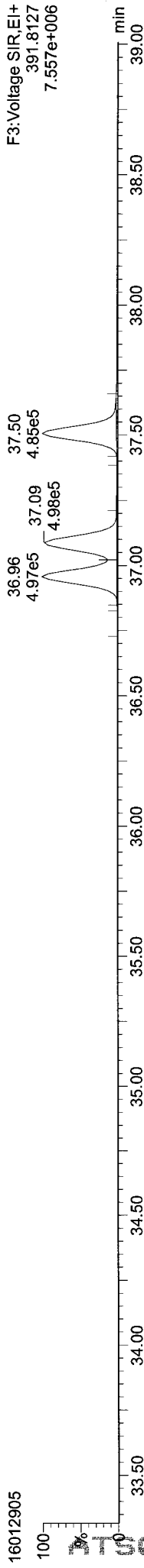
13C-123478-HxCDD



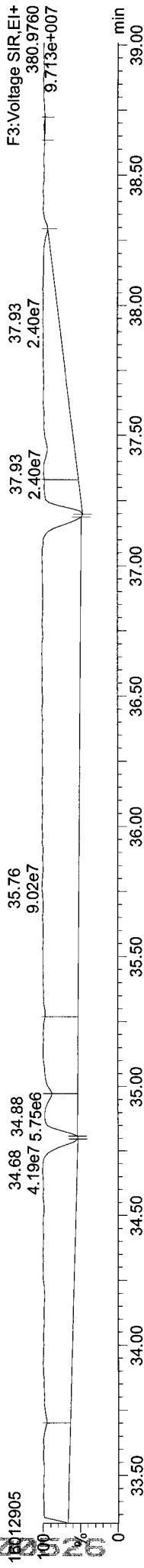
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

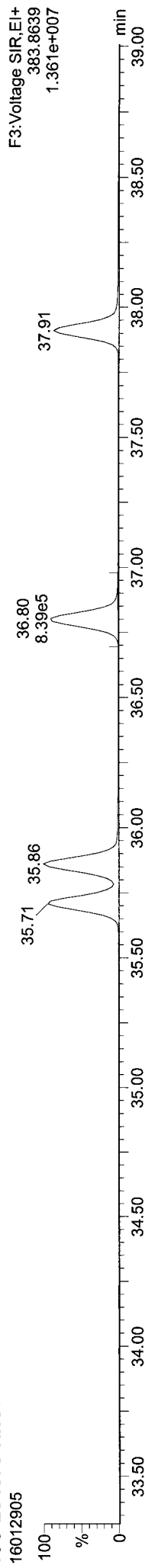
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

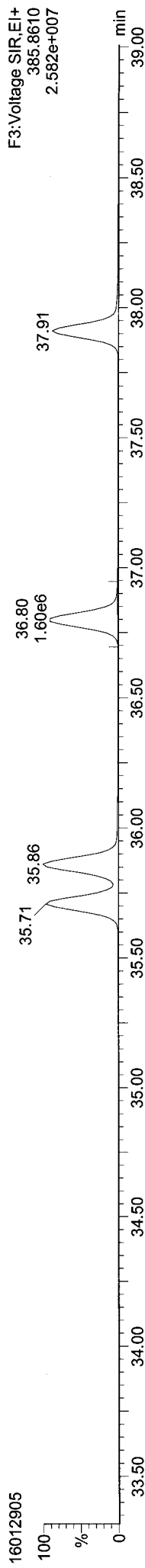
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

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

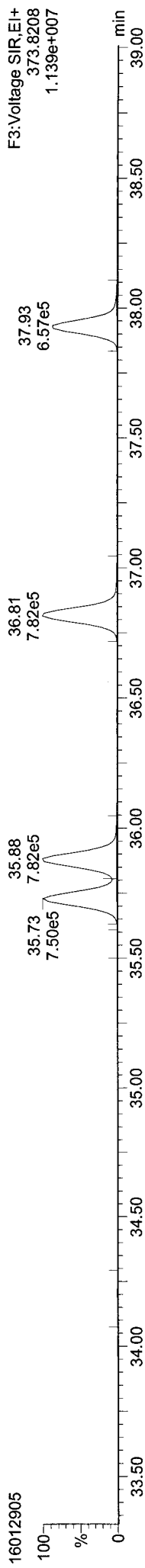
13C-234678-HxCDF



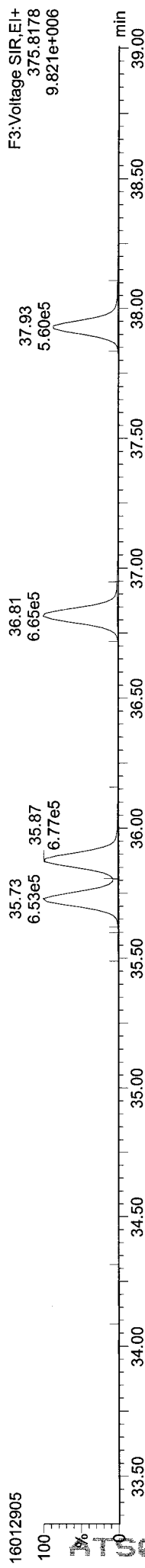
13C-234678-HxCDF



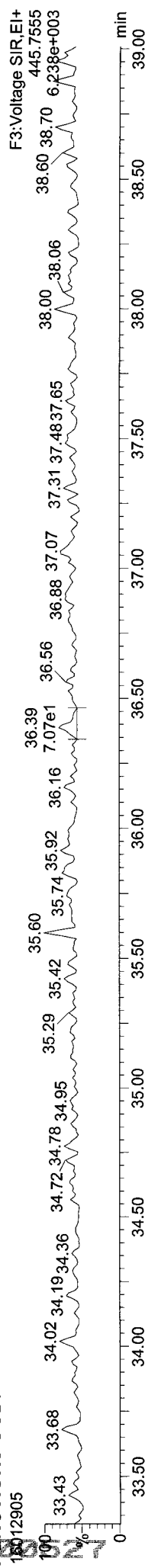
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



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

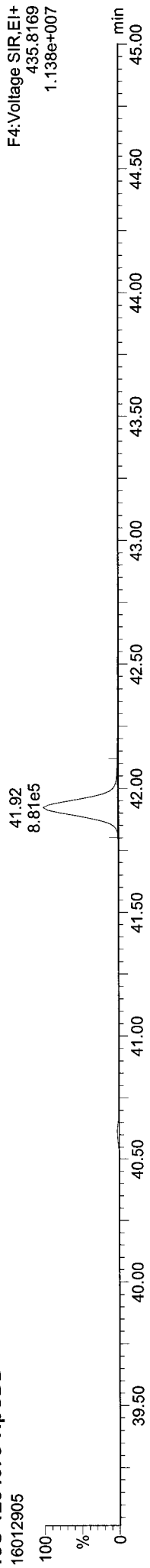
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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

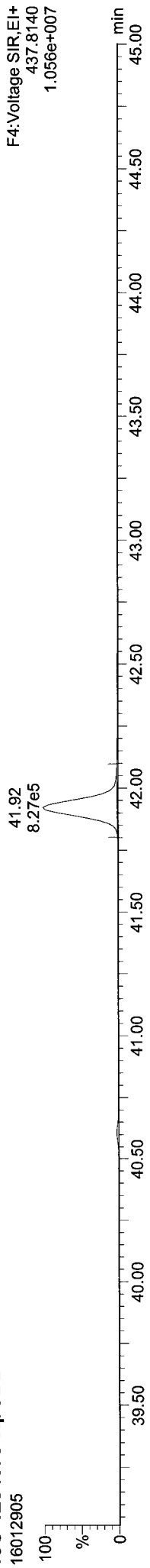
13C-1234678-HpCDD

16012905



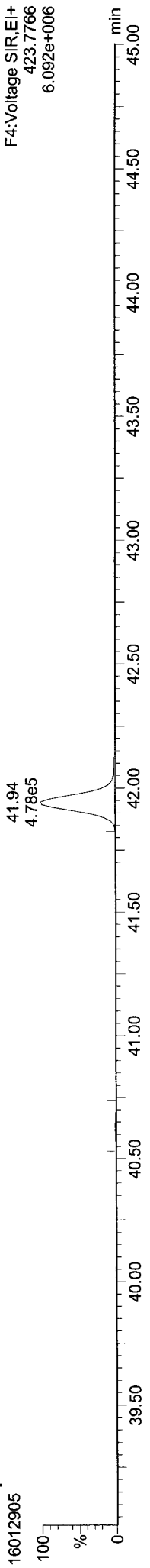
13C-1234678-HpCDD

16012905



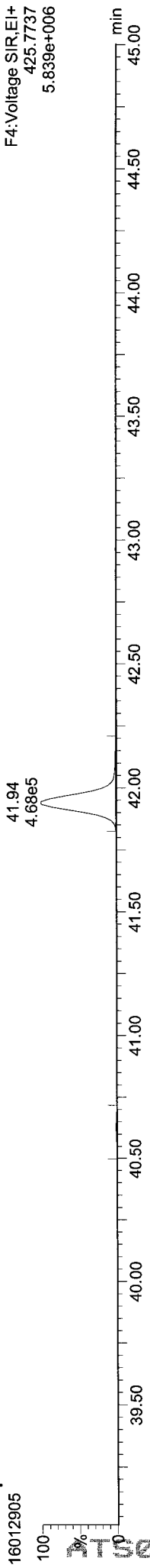
Total-heptadioxins

16012905



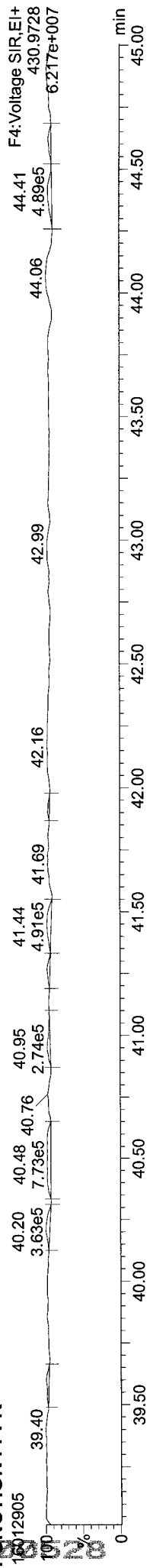
Total-heptadioxins

16012905



FUNCTION4 PFK

16012905



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

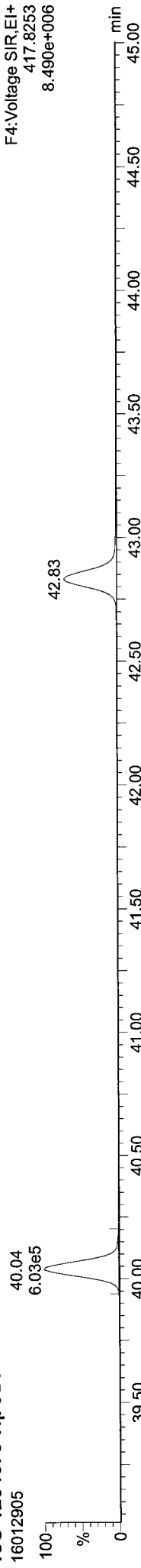
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

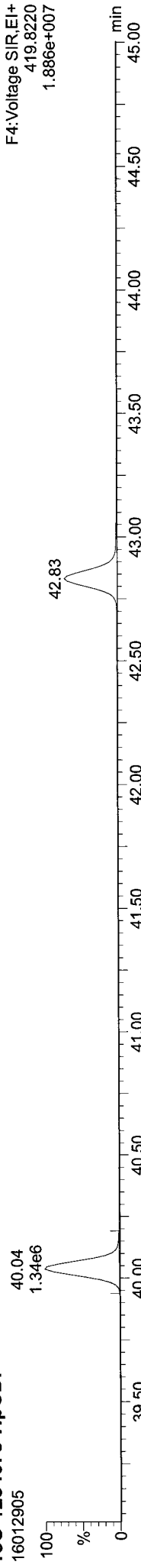
Printed: Monday, February 01, 2016 12:08:26 Pacific Standard Time

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

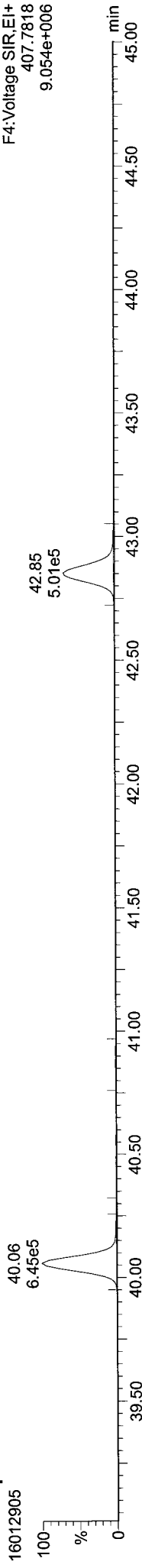
13C-1234678-HpCDF



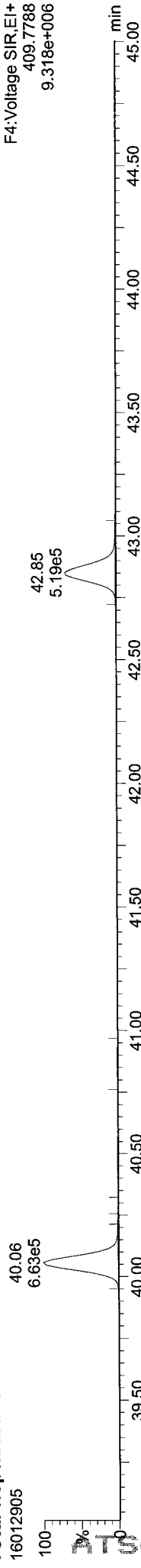
13C-1234678-HpCDF



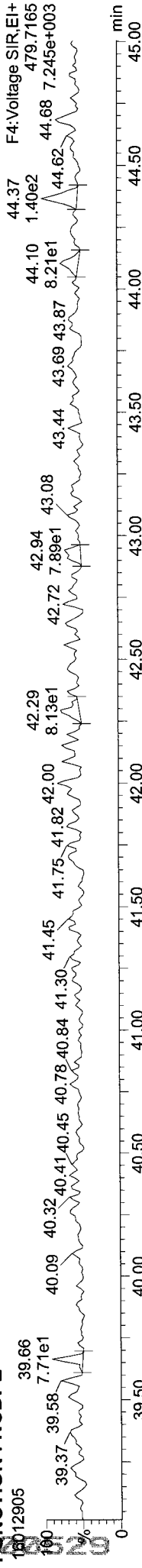
Total-heptafulurans



Total-heptafulurans

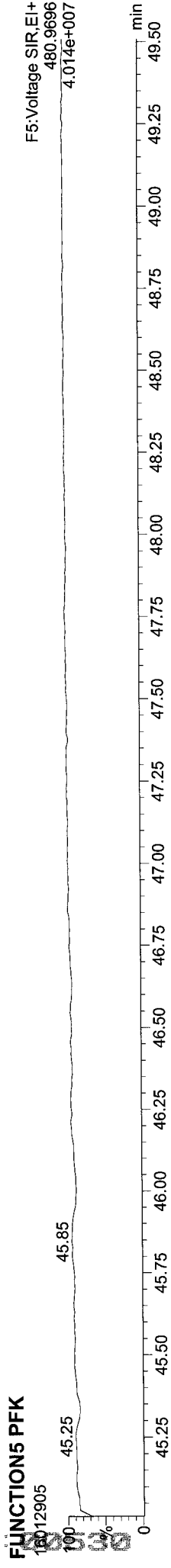
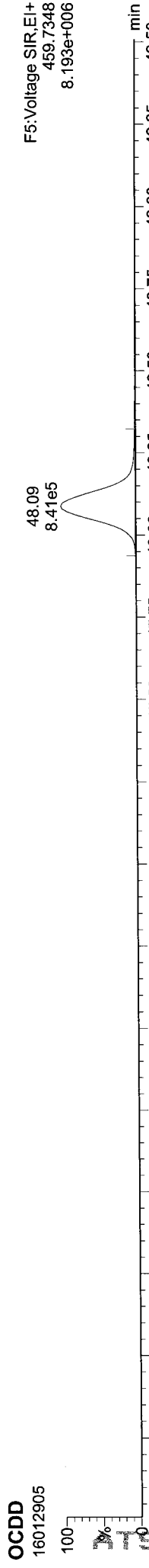
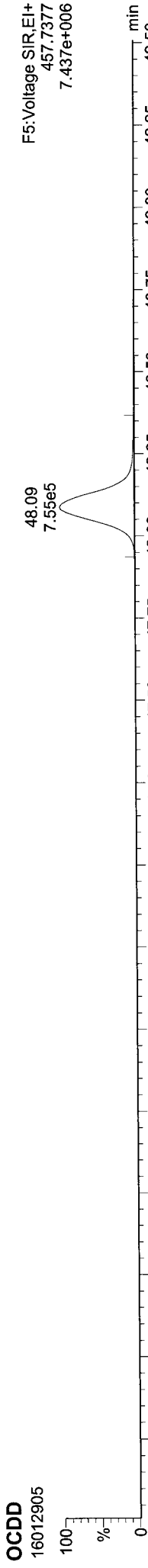
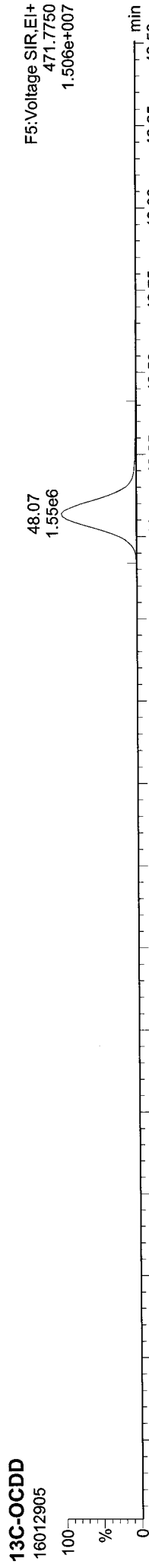
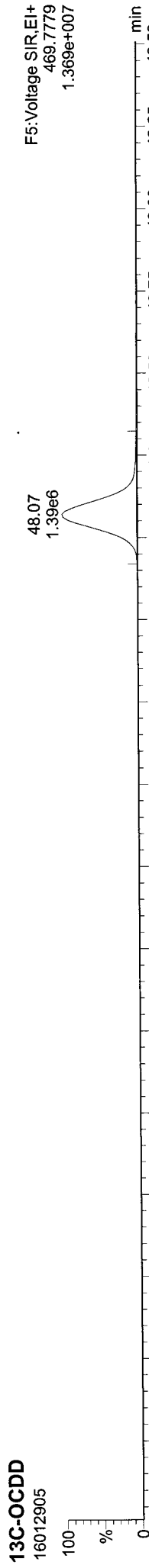


FUNCTION4 NCDPE



**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**



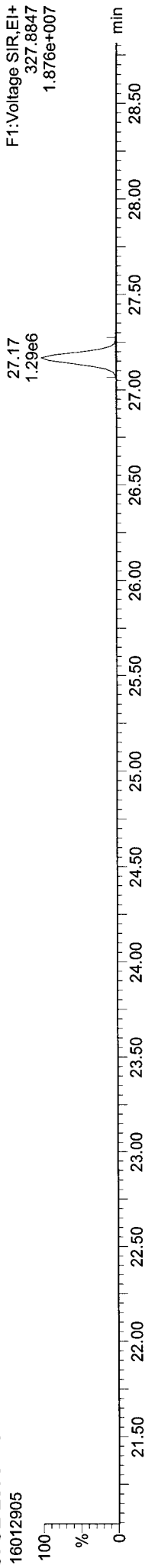
Quantify Sample Report MassLynx V4.1 SCN909

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

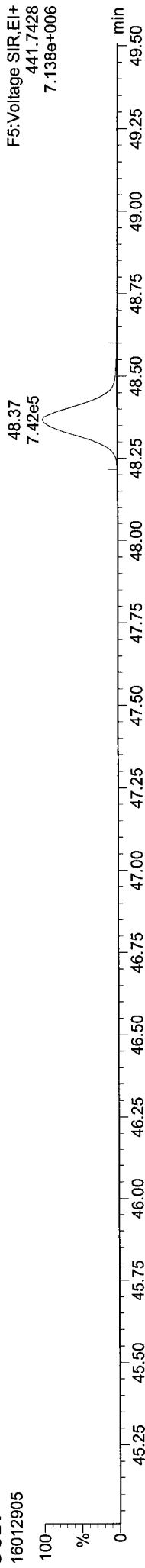
16012905



F1:Voltage SIR,EI+  
327.8847  
1.876e+007

OCDF

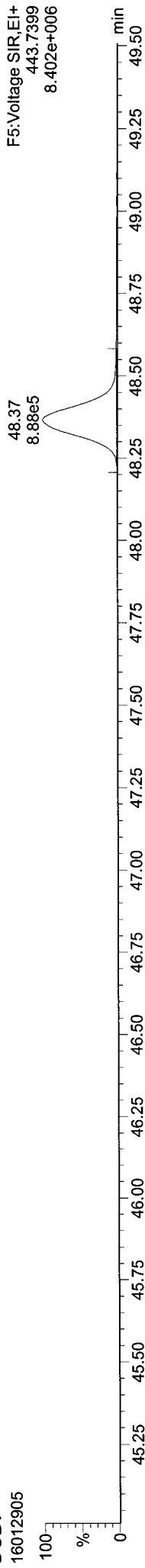
16012905



F5:Voltage SIR,EI+  
441.7428  
7.138e+006

OCDF

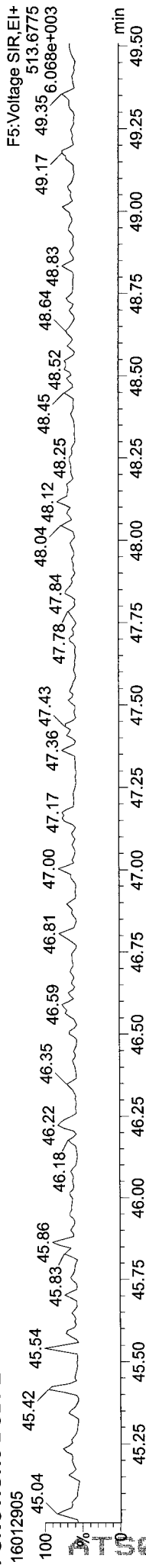
16012905



F5:Voltage SIR,EI+  
443.7399  
8.402e+006

FUNCTION5 DCDPE

16012905



F5:Voltage SIR,EI+  
443.7399  
8.402e+006

**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.

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

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-penta-dioxins			0.00e0		0.939			1496		0.00e0					
Total-hexa-dioxins			2.79e3		0.919			819		4.55e4					0.247
Total-hepta-dioxins			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

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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

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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

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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

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**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

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**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										

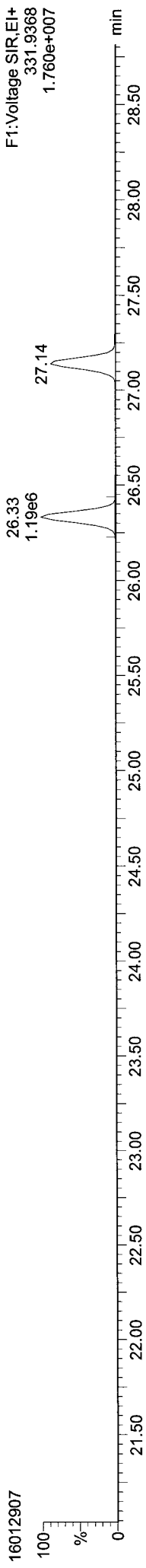
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

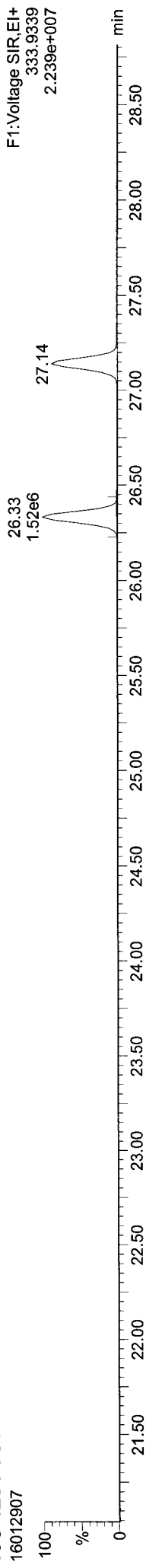
Method: P:\DIOXIN8290.pro\MethDB\Dioxin\1601293SN.mdb 29 Jan 2016 12:40:27  
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

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

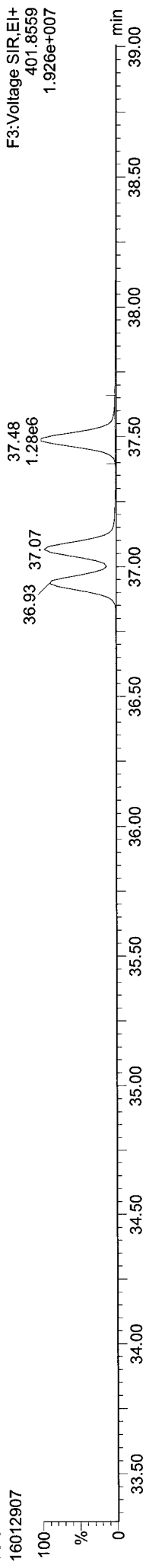
13C-1234-TCDD



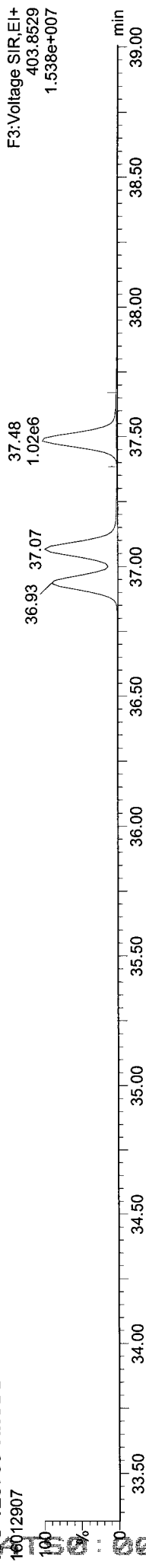
13C-1234-TCDD



13C-123789-HxCDD



13C-123789-HxCDD



16012907:005541

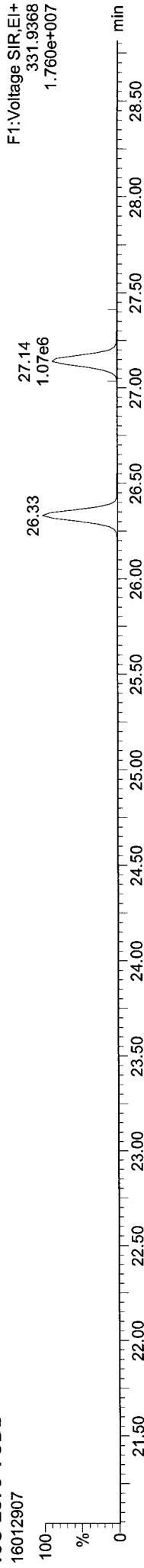


Quantify Sample Report MassLynx V4.1 SCN909

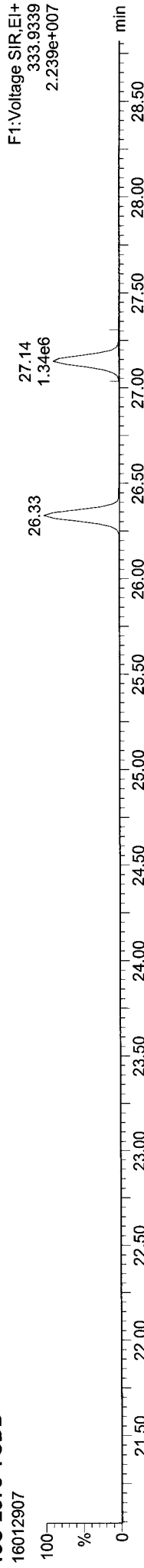
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

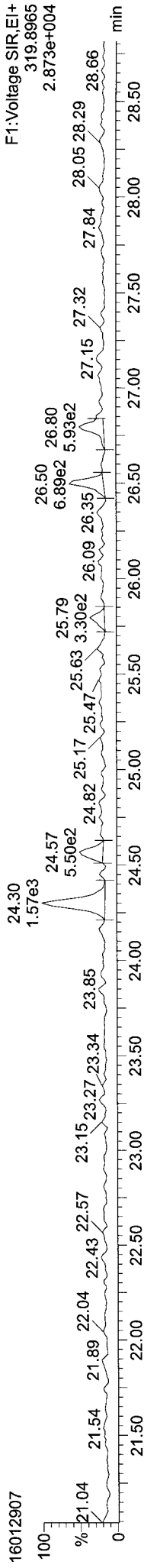
13C-2378-TCDD



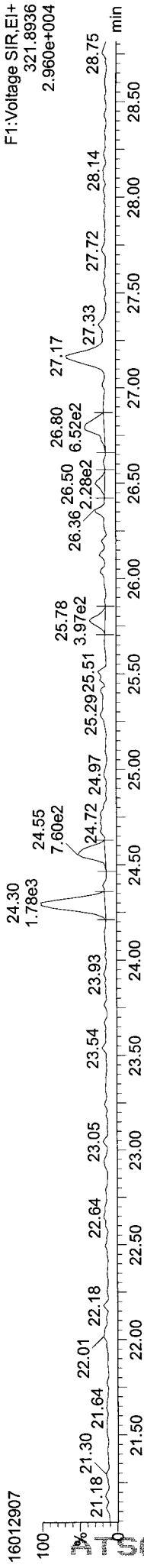
13C-2378-TCDD



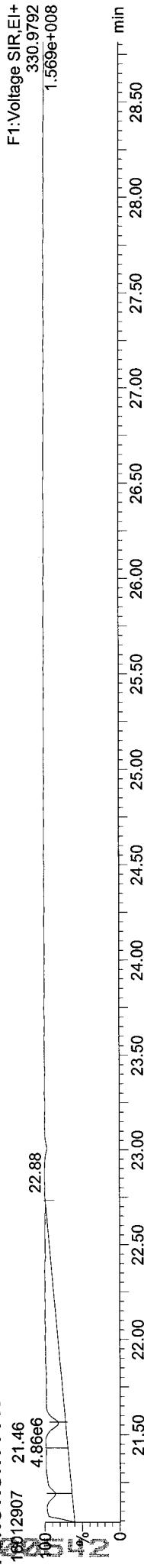
Total-tetradiioxins



Total-tetradiioxins



FUNCTION1 PFK

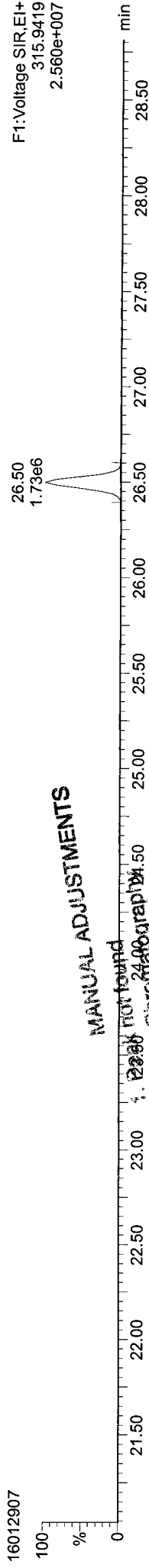


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

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

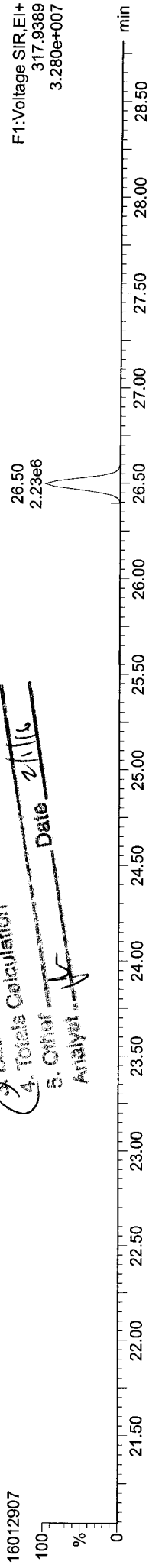
13C-2378-TCDF



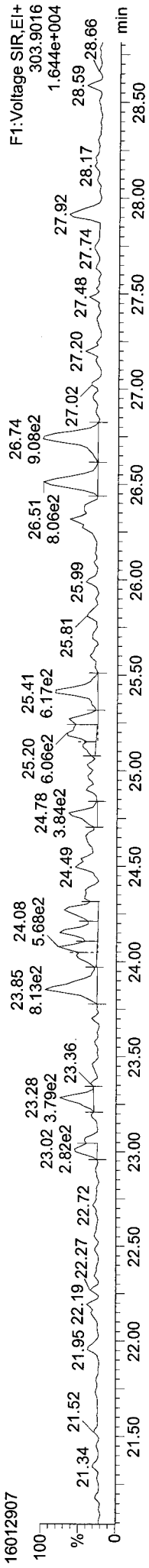
MANUAL ADJUSTMENTS

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

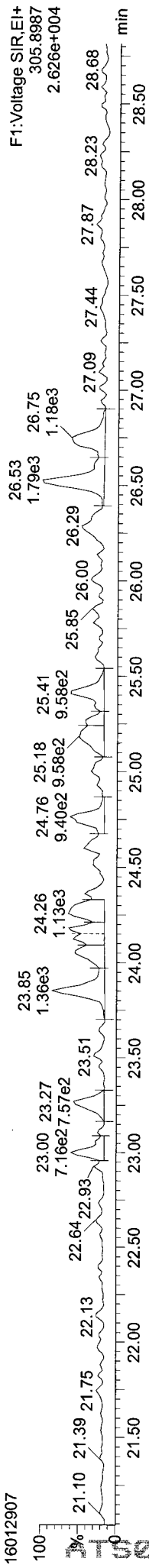
13C-2378-TCDF



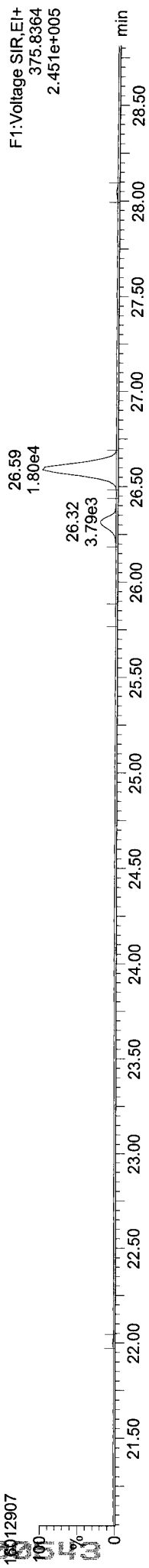
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

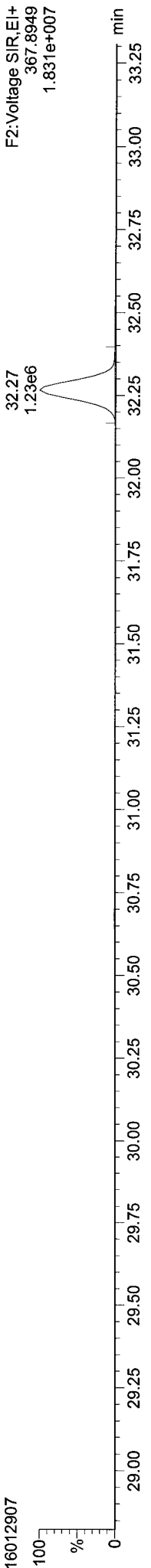


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

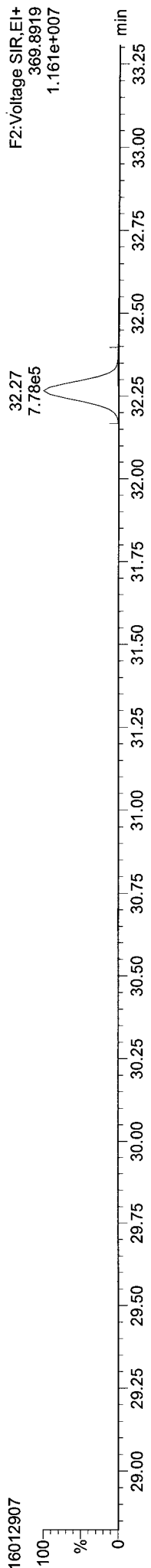
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

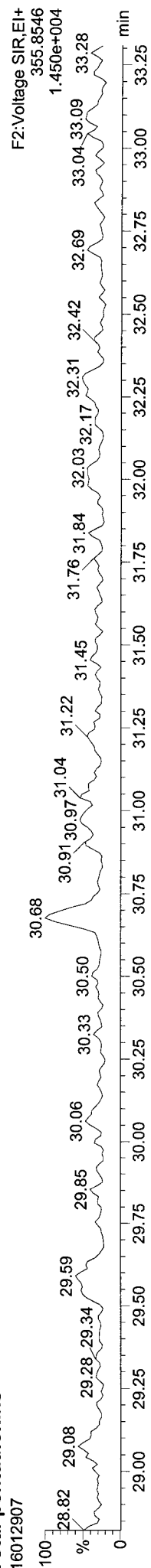
13C-12378-PeCDD



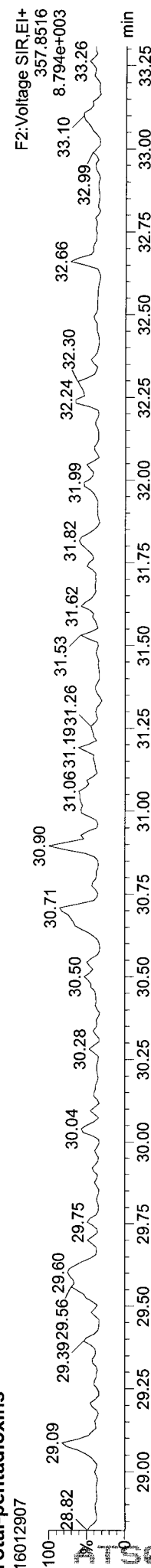
13C-12378-PeCDD



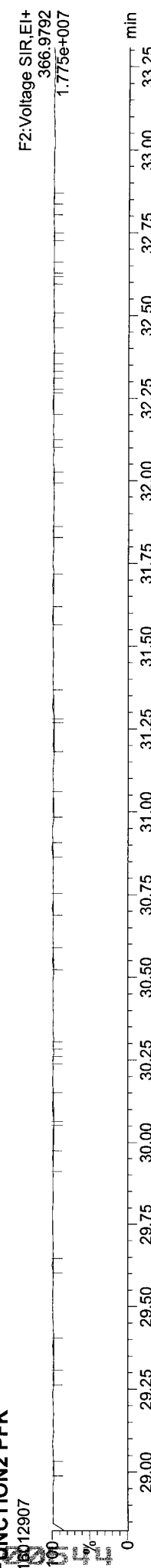
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

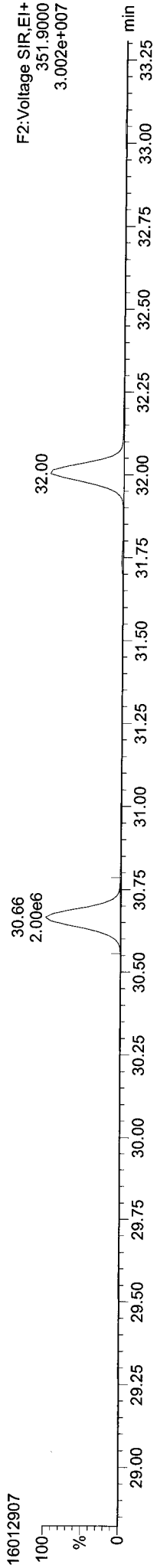


Quantify Sample Report MassLynx V4.1 SCN909

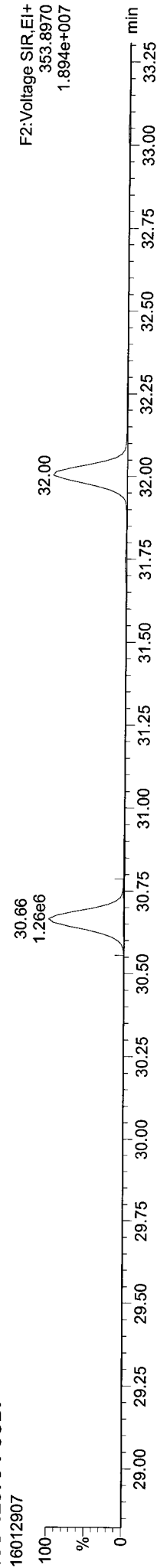
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

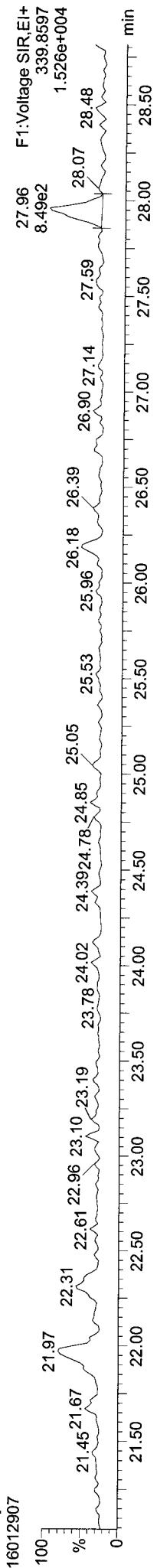
13C-12378-PeCDF



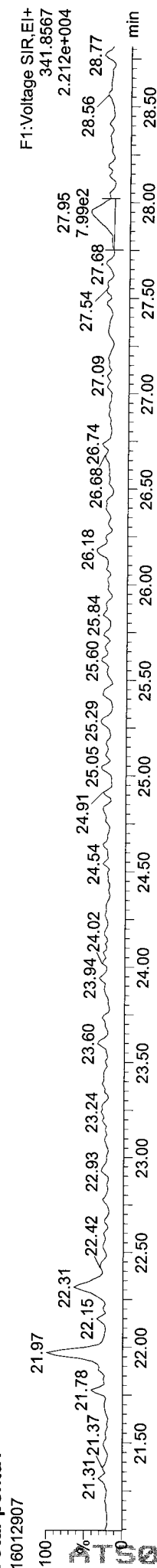
13C-12378-PeCDF



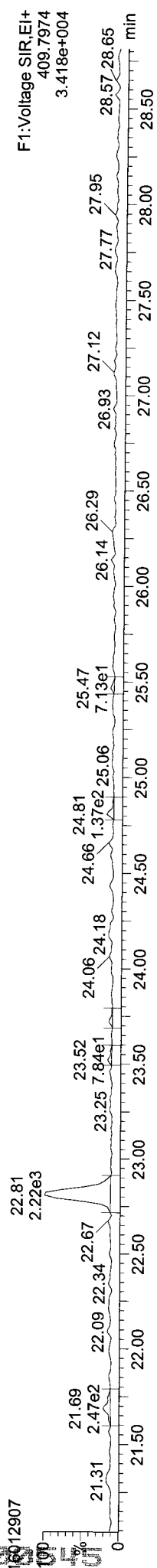
Total-penta1



Total-penta1

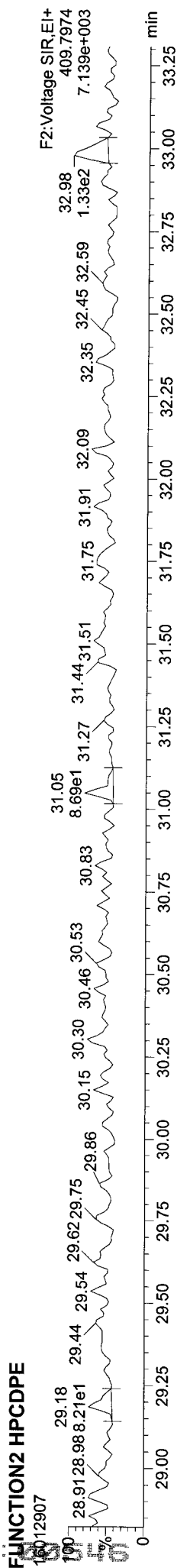
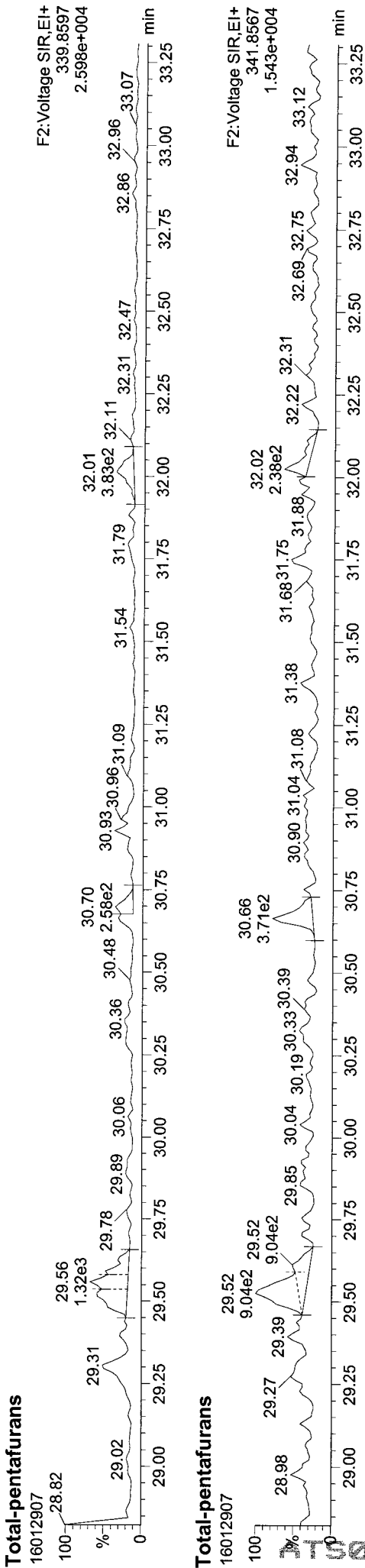
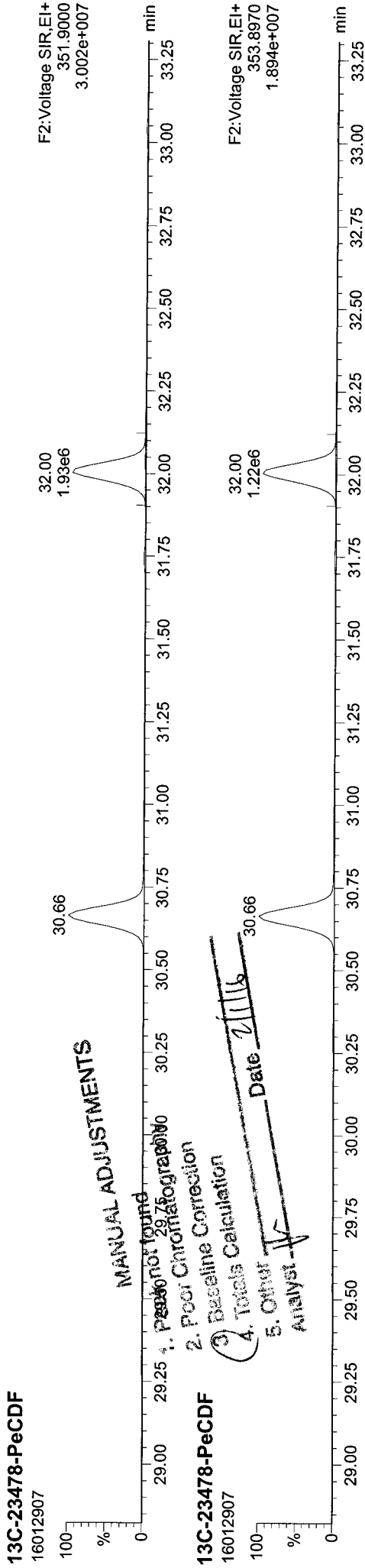


FUNCTION1 HPCDPE



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 12:08:33 Pacific Standard Time

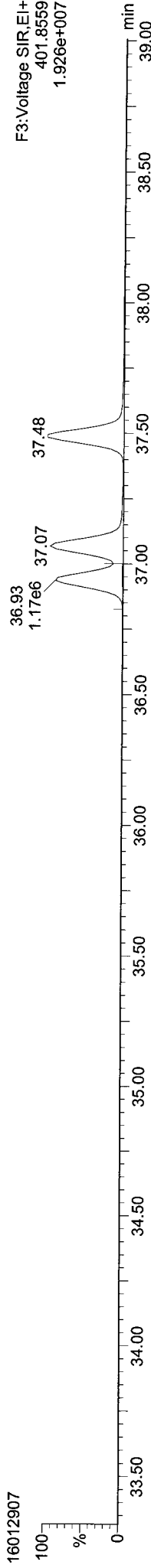
ID: AT50A, Name: 16012907, Date: 29-Jan-2016, Time: 17:07:35, Conditions: AUTOSPEC01, User: pk



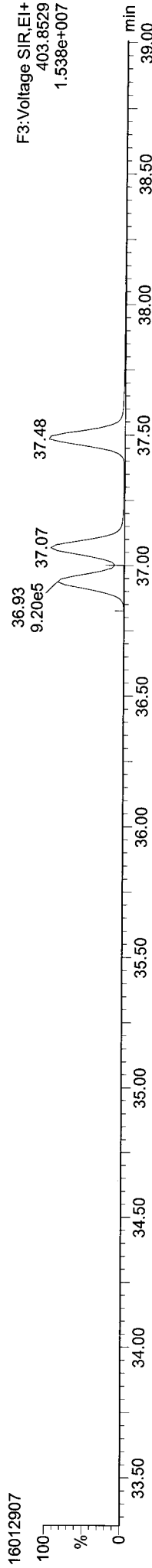
Quantify Sample Report    MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

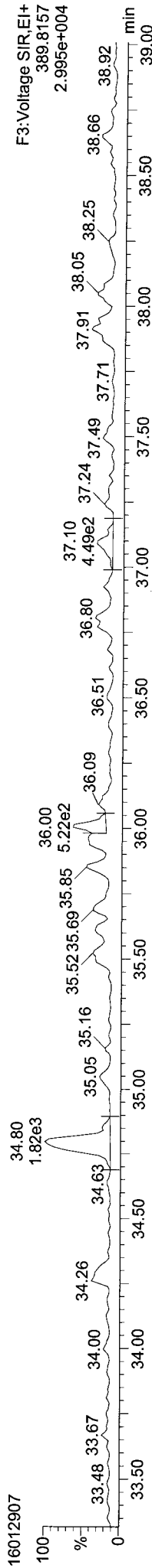
**13C-123478-HxCDD**



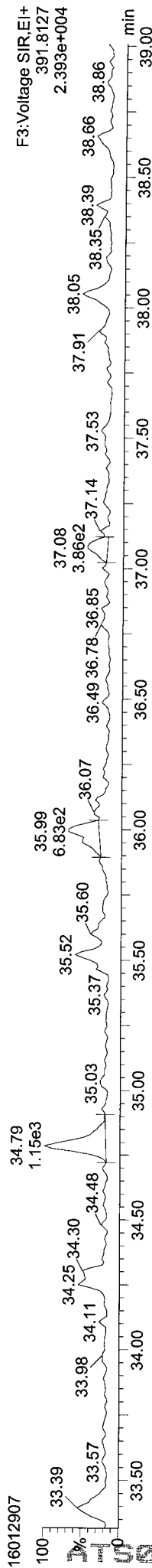
**13C-123478-HxCDD**



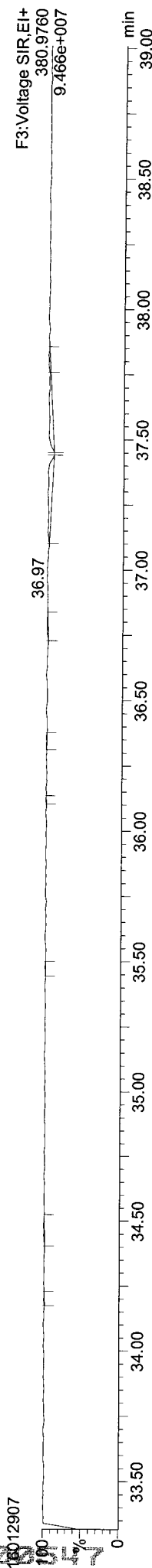
**Total-hexadioxins**



**Total-hexadioxins**



**FUNCTION3 PFK**

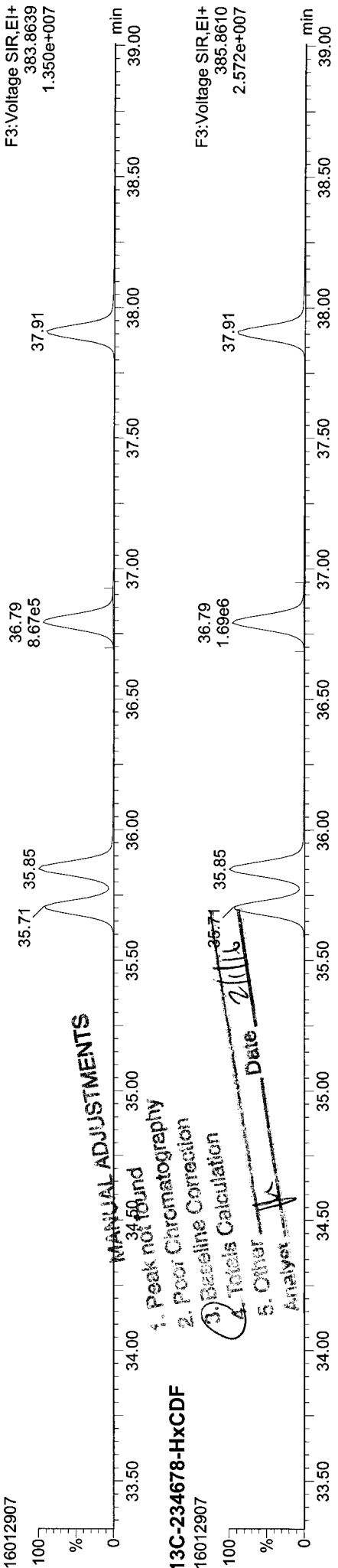


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

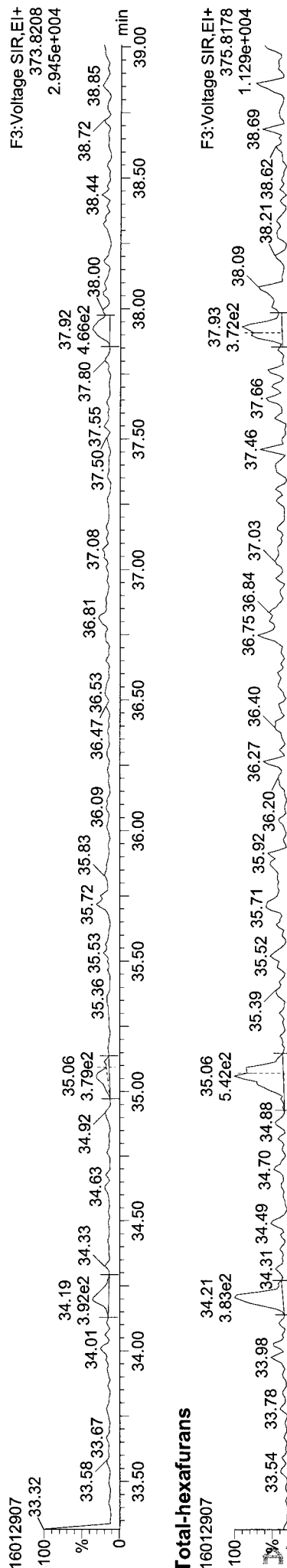
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

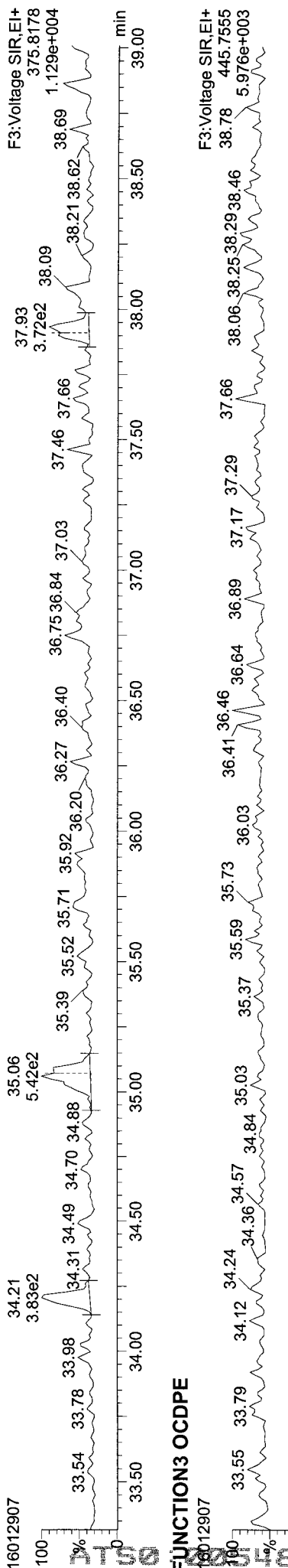
13C-234678-HxCDF



Total-hexafurans



Total-hexafurans



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

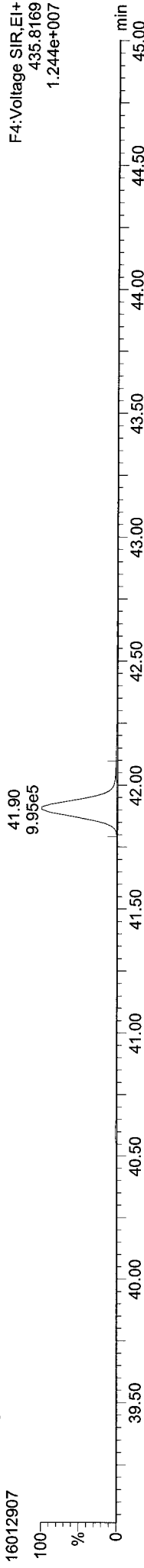
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

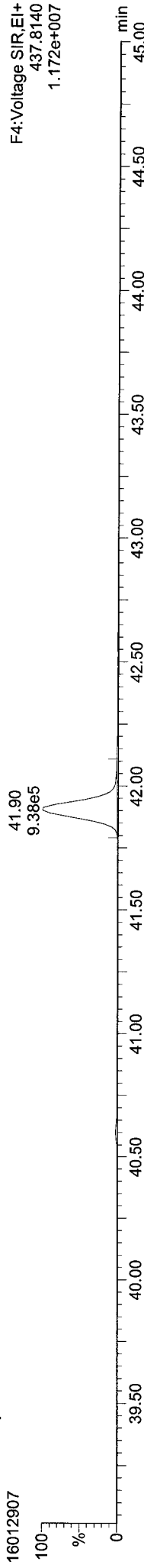
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

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

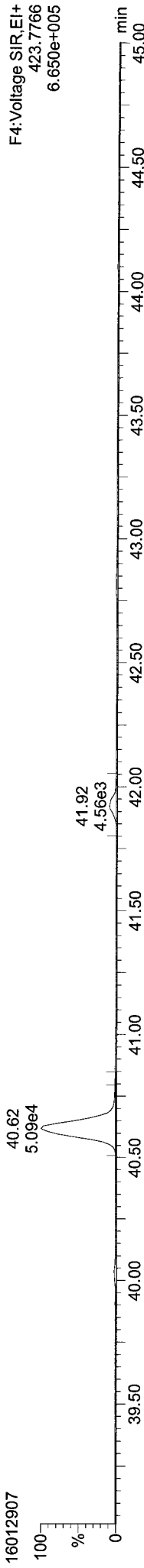
13C-1234678-HpCDD



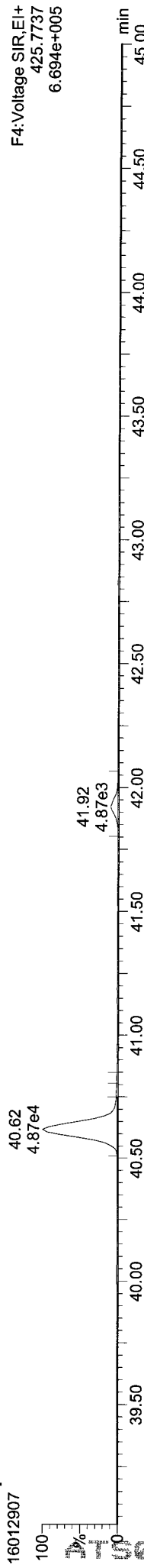
13C-1234678-HpCDD



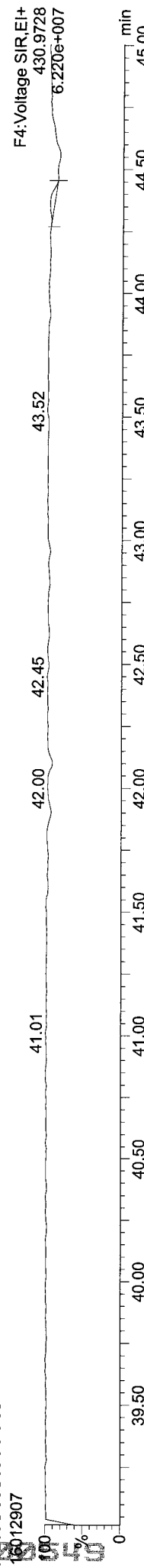
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



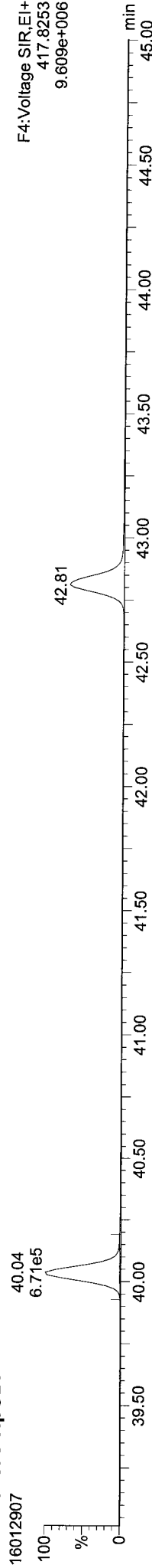


Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:33 Pacific Standard Time

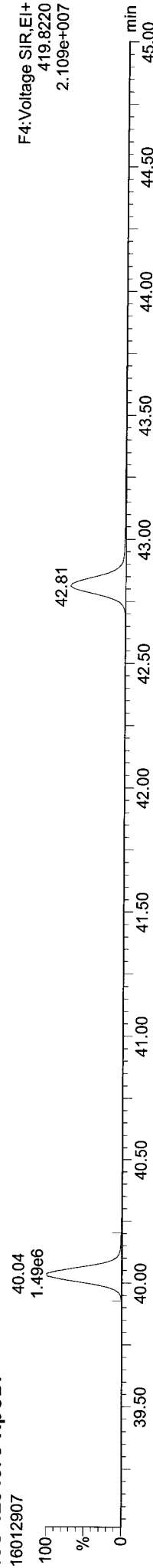
MassLynx MassLynx V4.1 SCN909

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

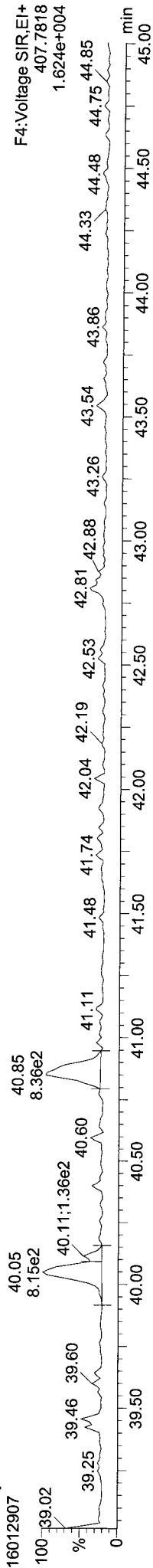
13C-1234678-HpCDF



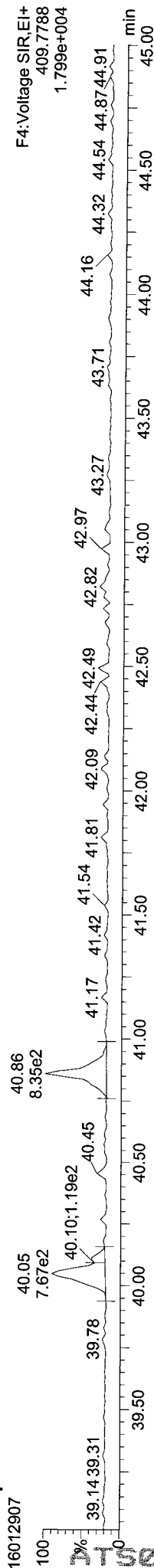
13C-1234678-HpCDF



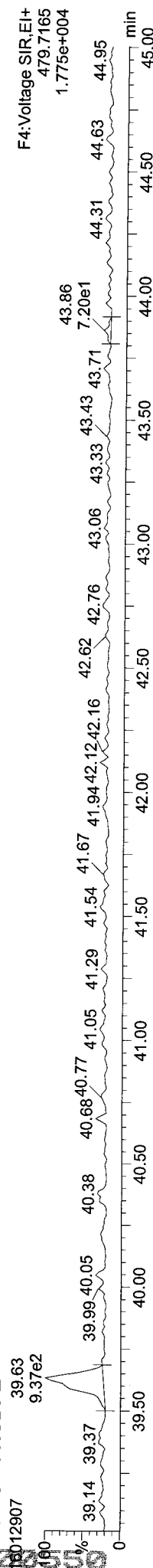
Total-heptafurans



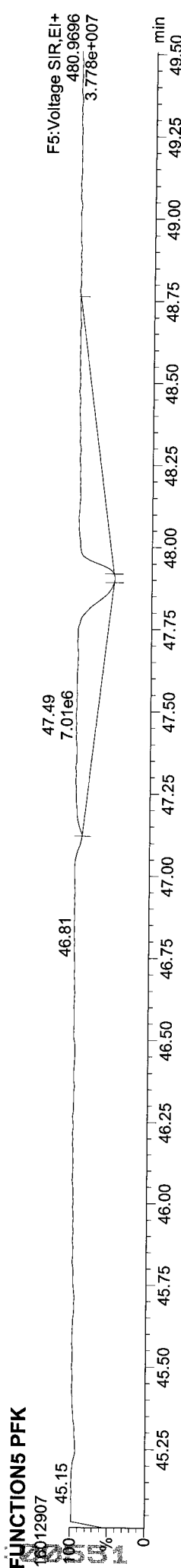
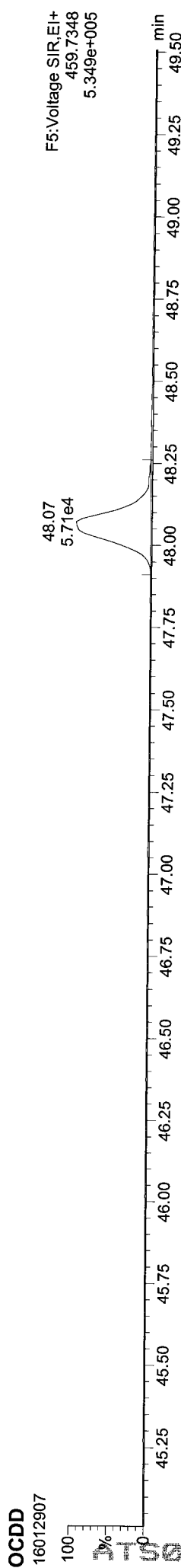
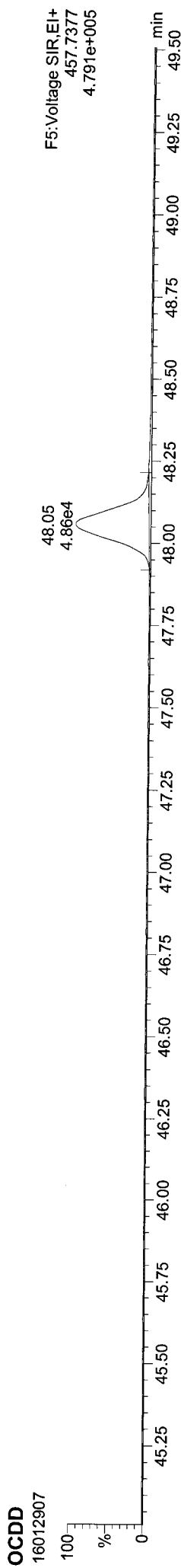
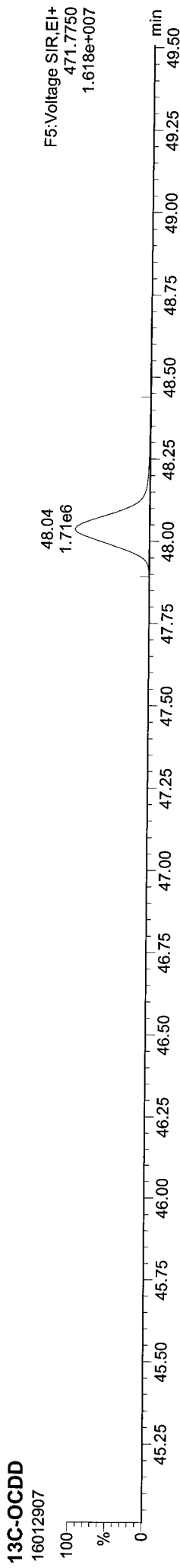
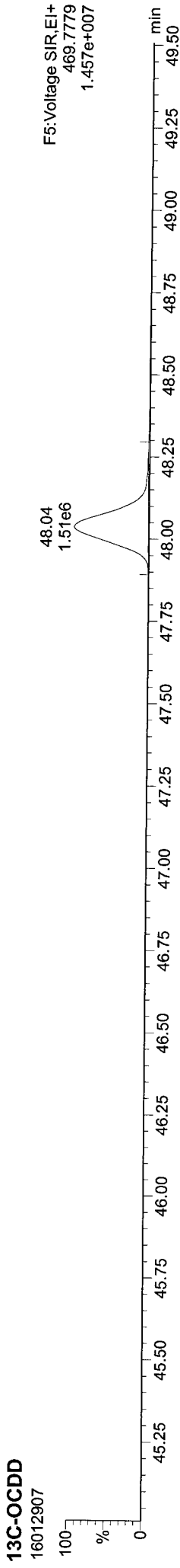
Total-heptafurans



FUNCTION4 NCDPE



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



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

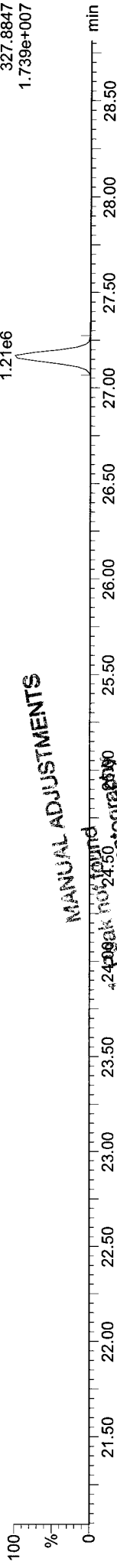
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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

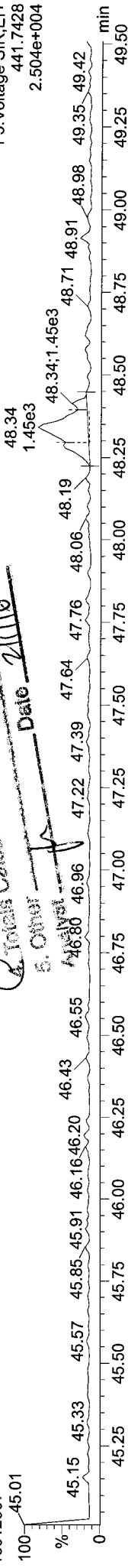
16012907



MANUAL ADJUSTMENTS

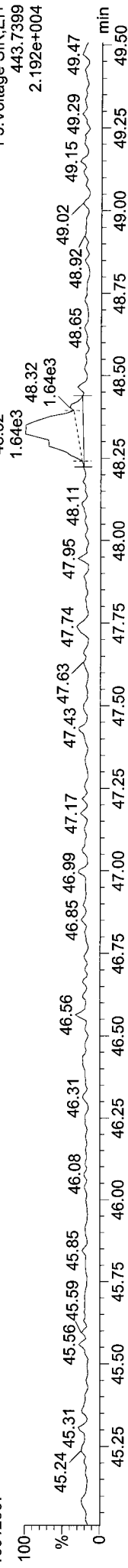
OCDF

16012907



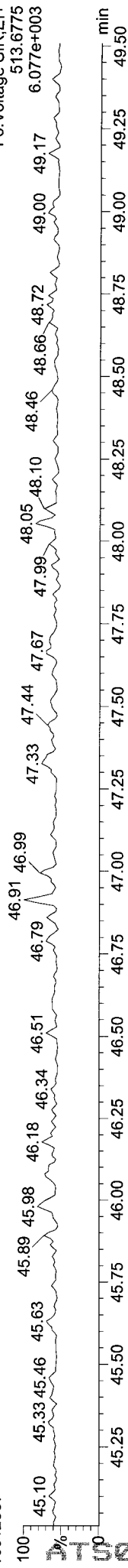
OCDF

16012907



FUNCTION5 DCDPE

16012907



16012907 : 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

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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  
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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-hexafurans	373.8208	35.06	884.013	0.977	0.041		1.03	1.24	YES	6.2
2	38 Total-hexafurans	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-heptafurans	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-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

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**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



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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

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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**

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**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  
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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											

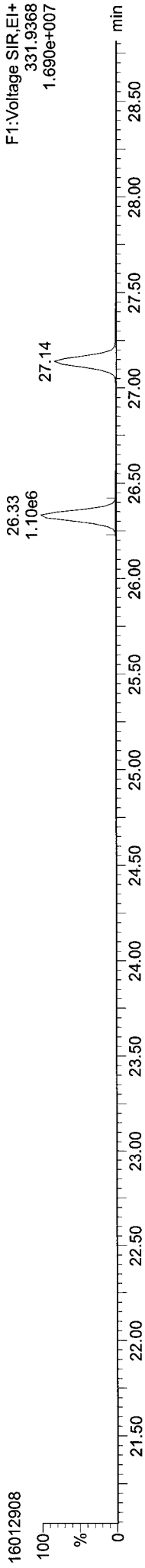
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

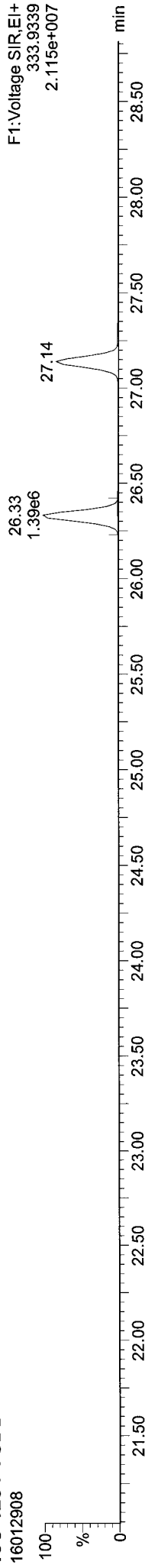
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ID: AT50B, Name: 16012908, Date: 29-Jan-2016, Time: 18:01:18, Conditions: AUTOSPEC01, User: pk

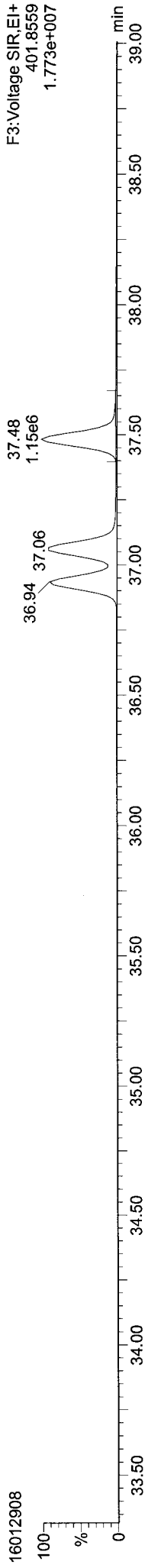
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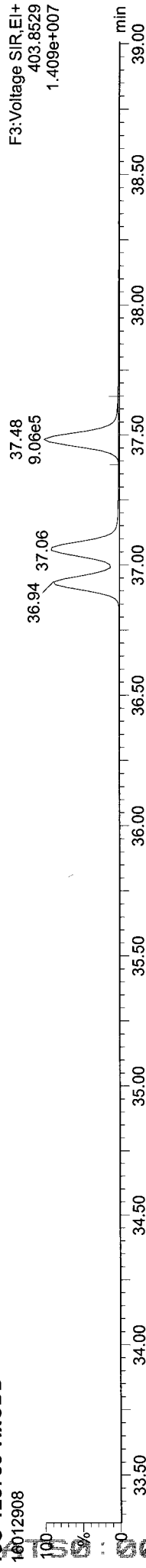
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13C-123789-HxCDD



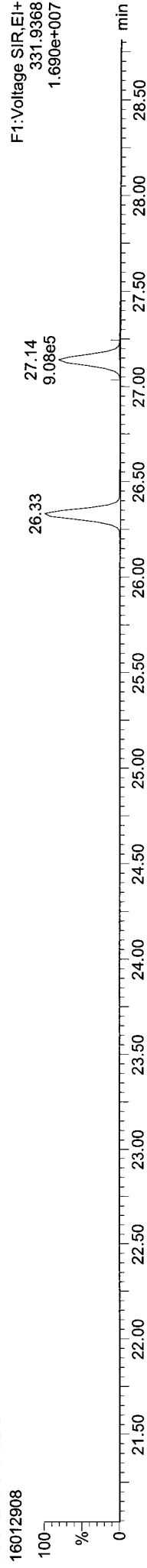
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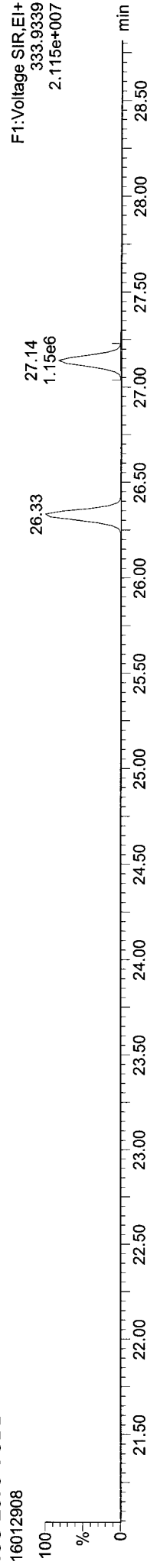
16012908 : 00502

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

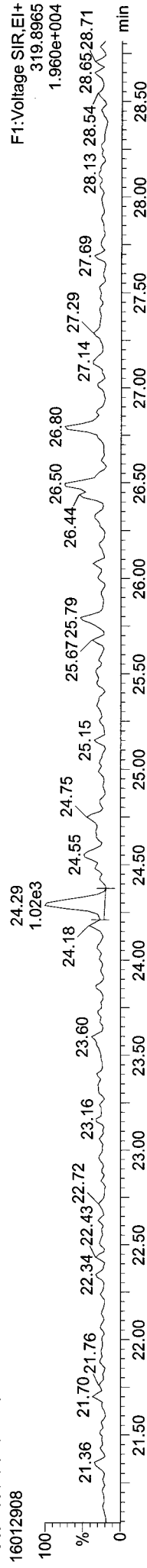
13C-2378-TCDD



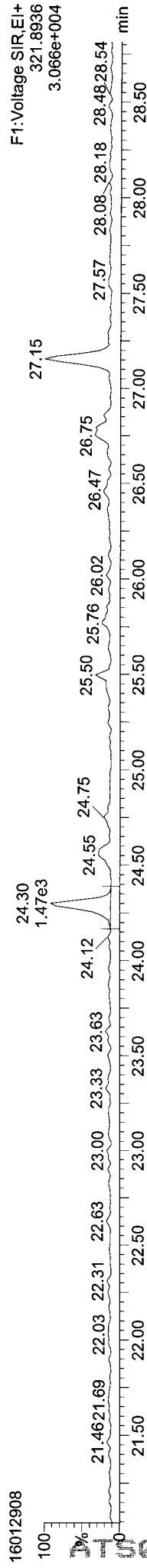
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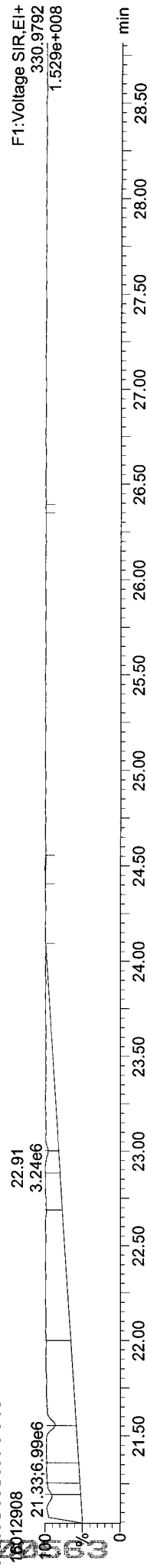
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

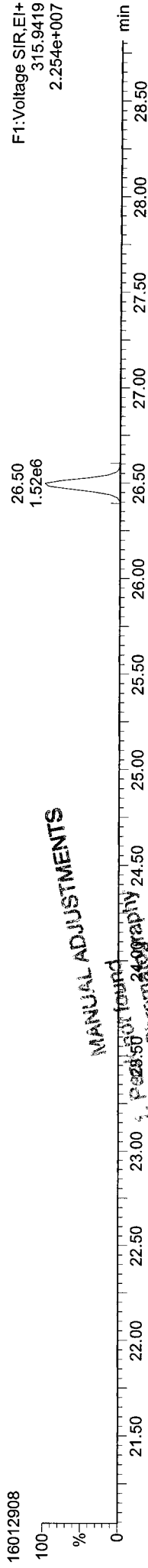
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

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

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

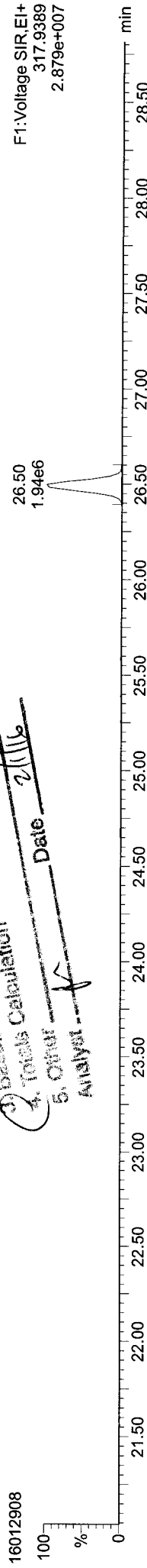
13C-2378-TCDF



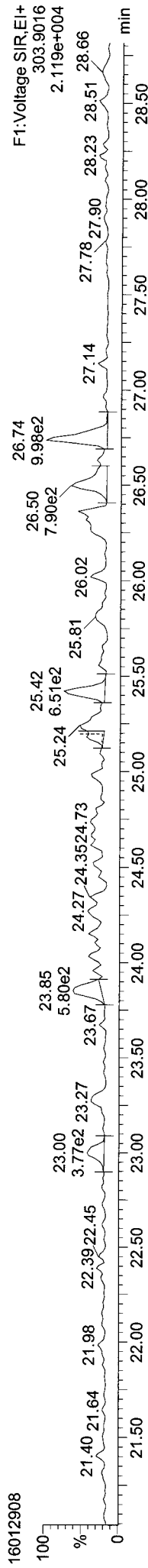
MANUAL ADJUSTMENTS

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

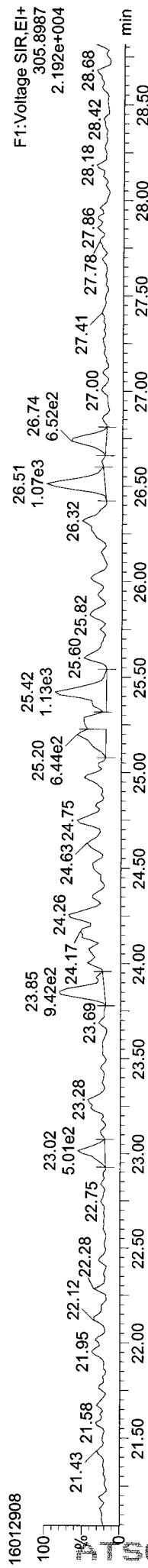
13C-2378-TCDF



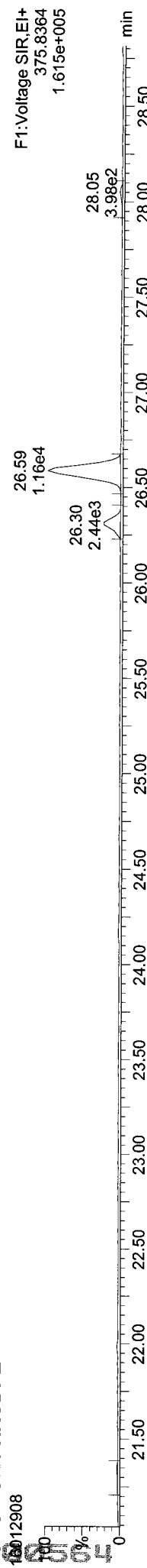
Total-tetrafurans



Total-tetrafurans



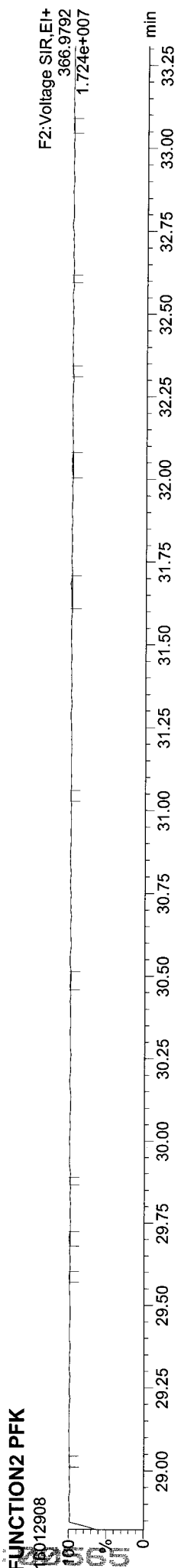
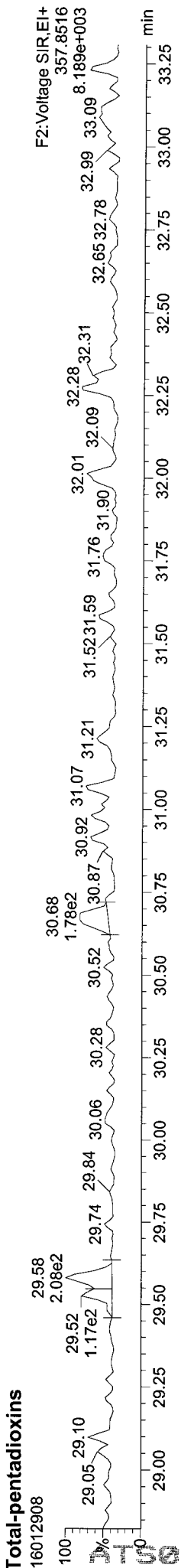
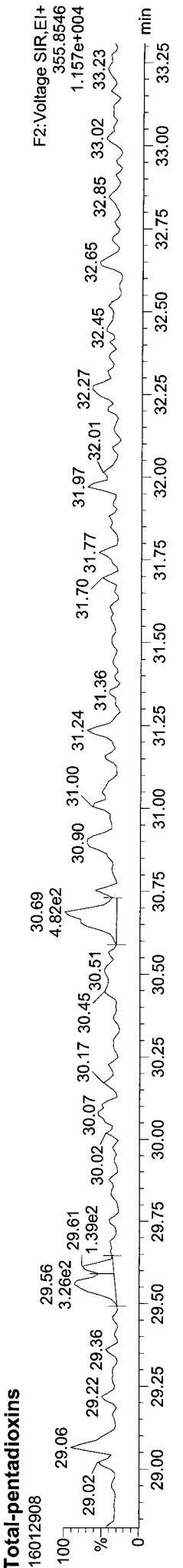
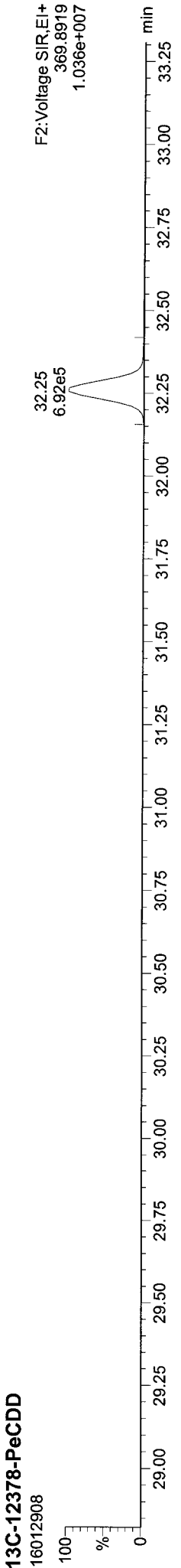
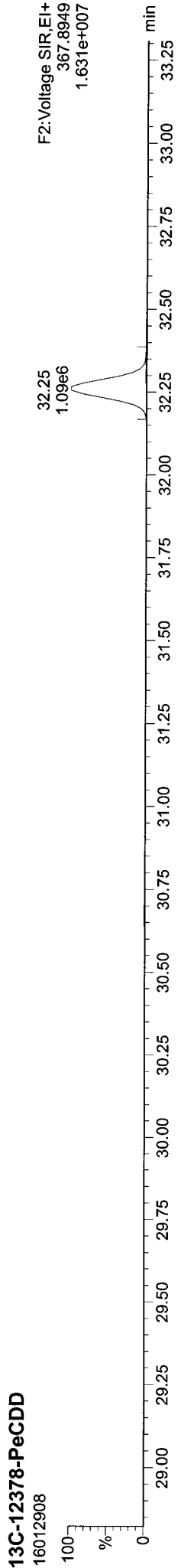
FUNCTION1 HXCDPE



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



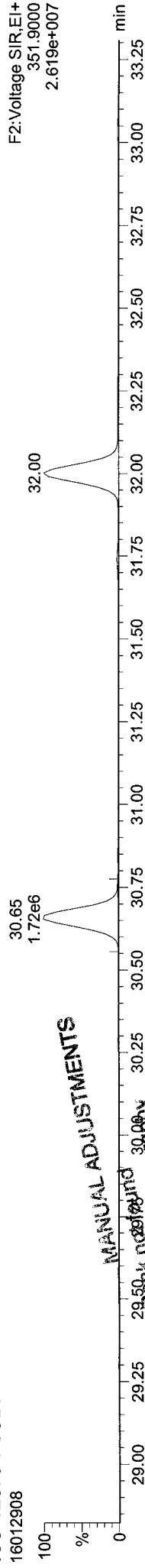


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

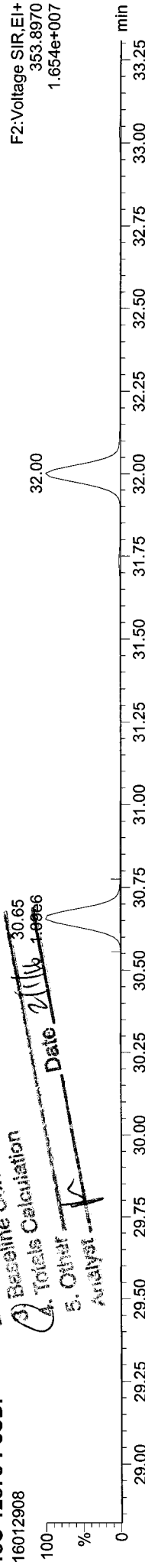
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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

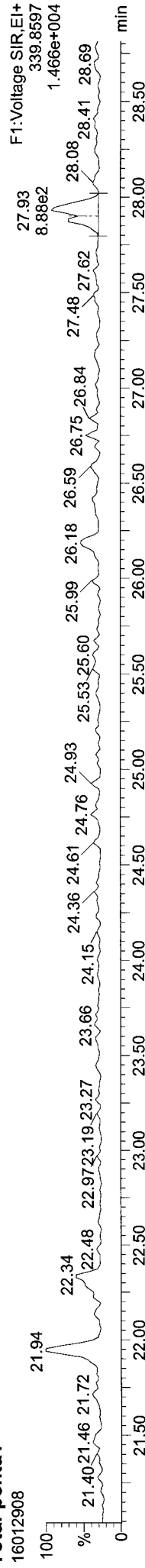
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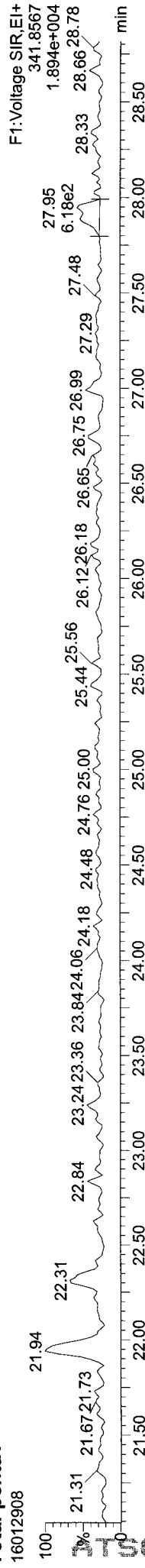
13C-12378-PeCDF



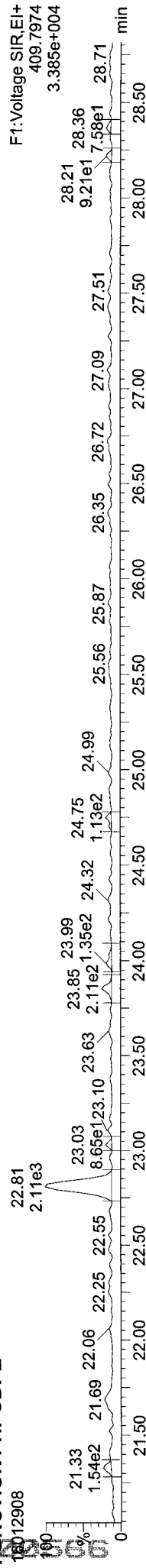
Total-penta1



Total-penta1



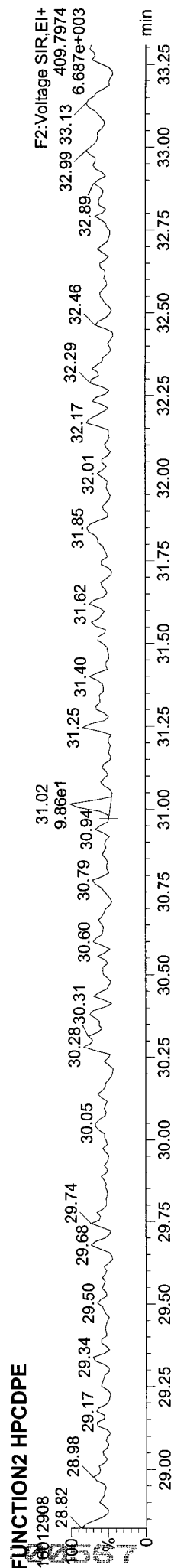
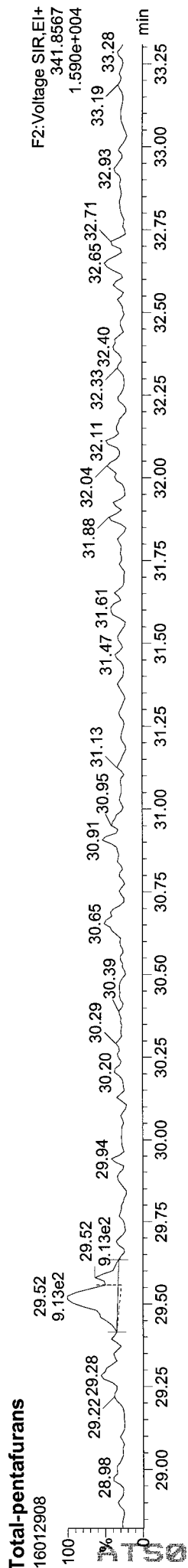
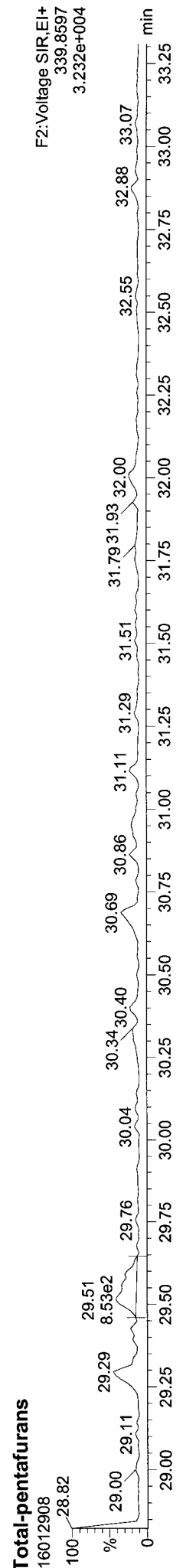
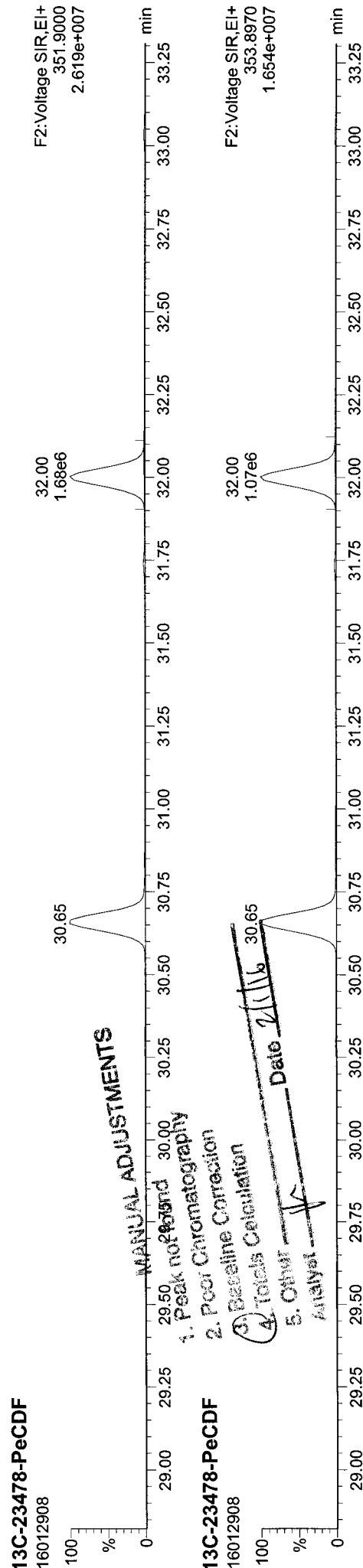
FUNCTION1 HPCDPE



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  
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



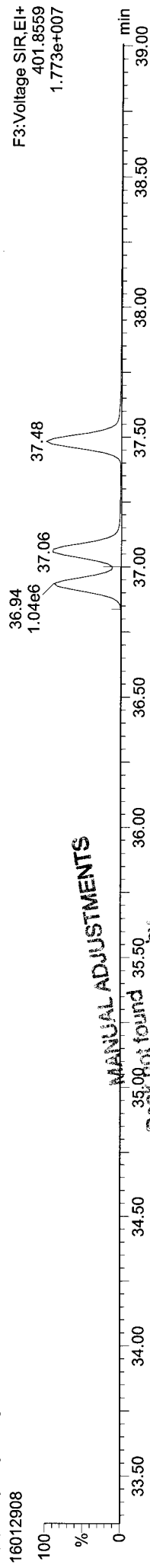
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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



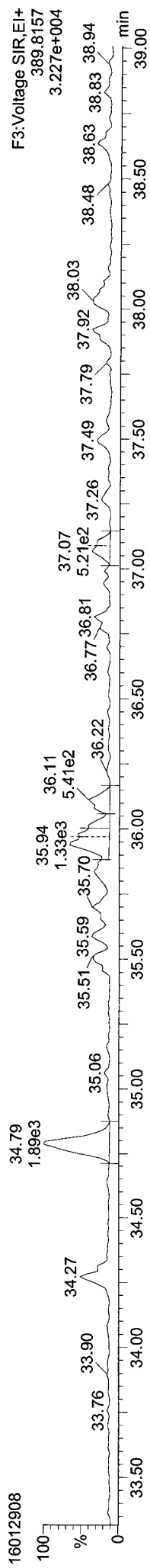
MANUAL ADJUSTMENTS

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  2. Poor Chromatography
  3. Baseline Correction
  4. Totals Calculation
  5. Other
- Analyst: *[Signature]* Date: *2/1/16*

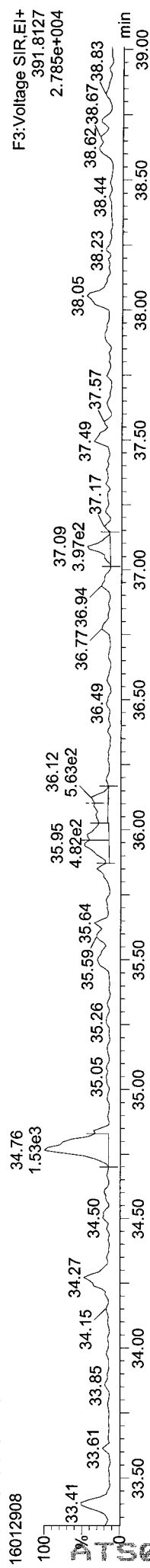
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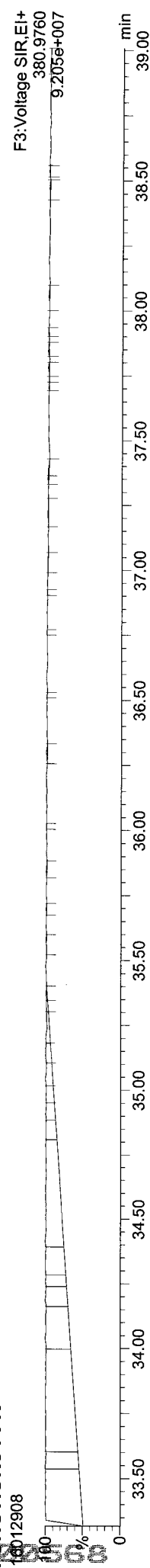
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

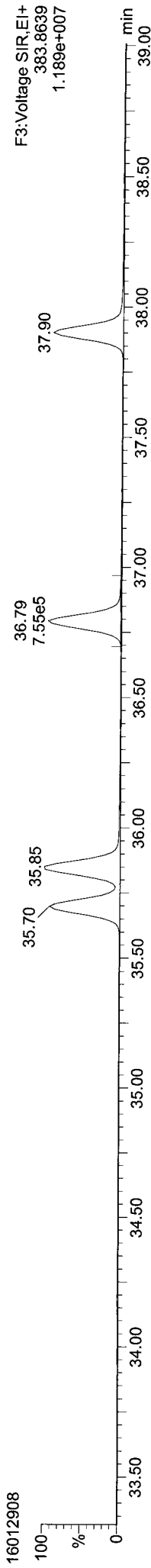


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

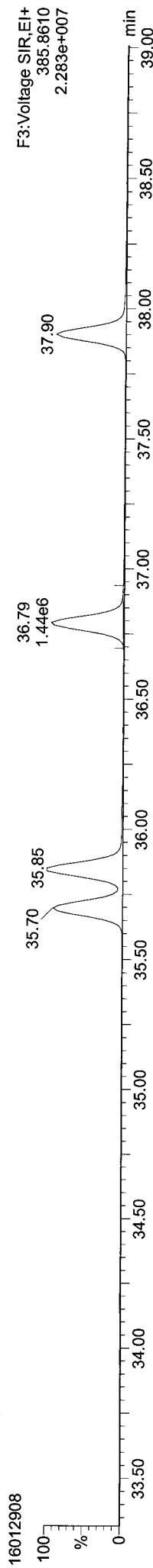
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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

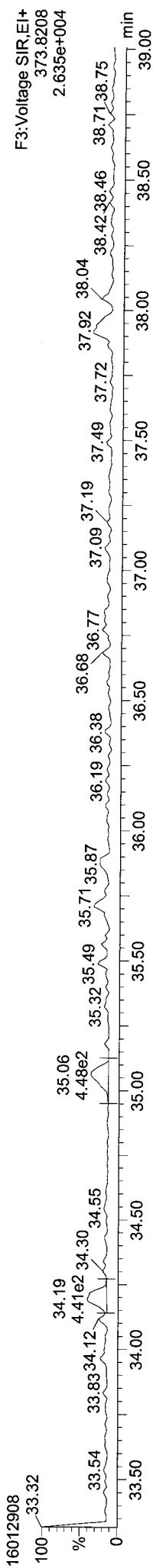
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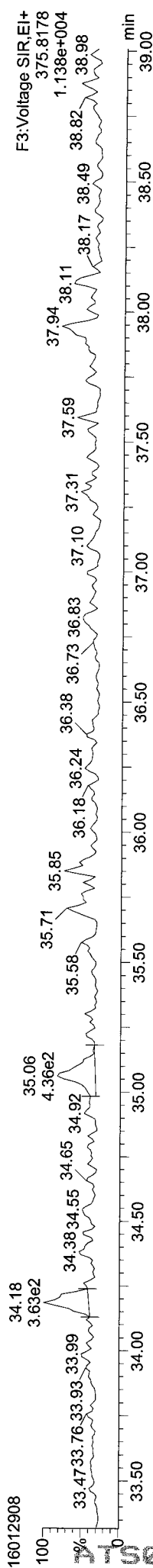
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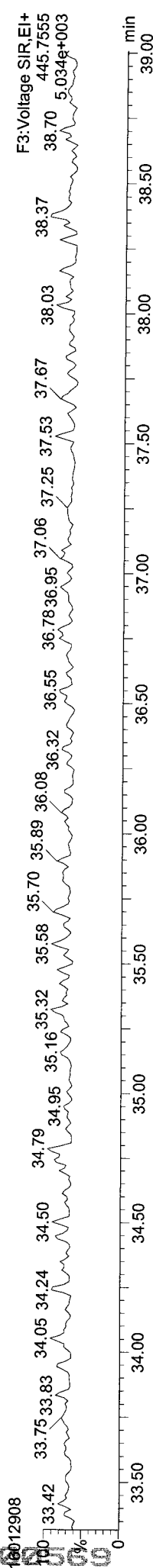
Total-hexafurans



Total-hexafurans



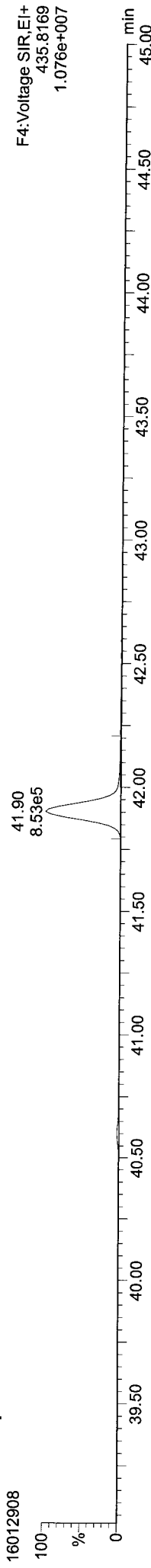
FUNCTION3 OCDPE



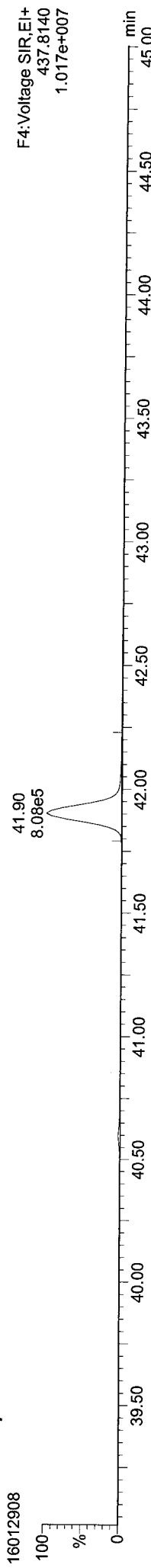
Quantify Sample Report MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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

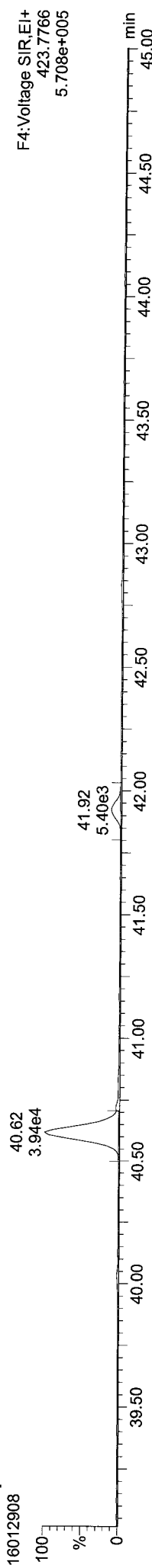
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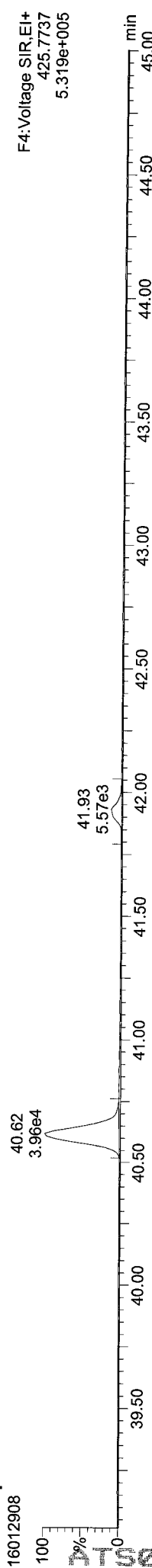
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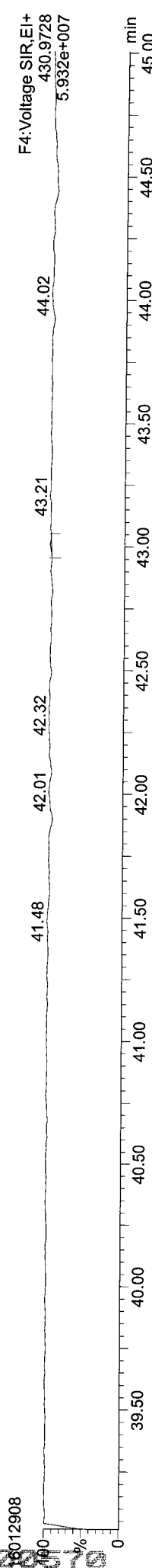
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

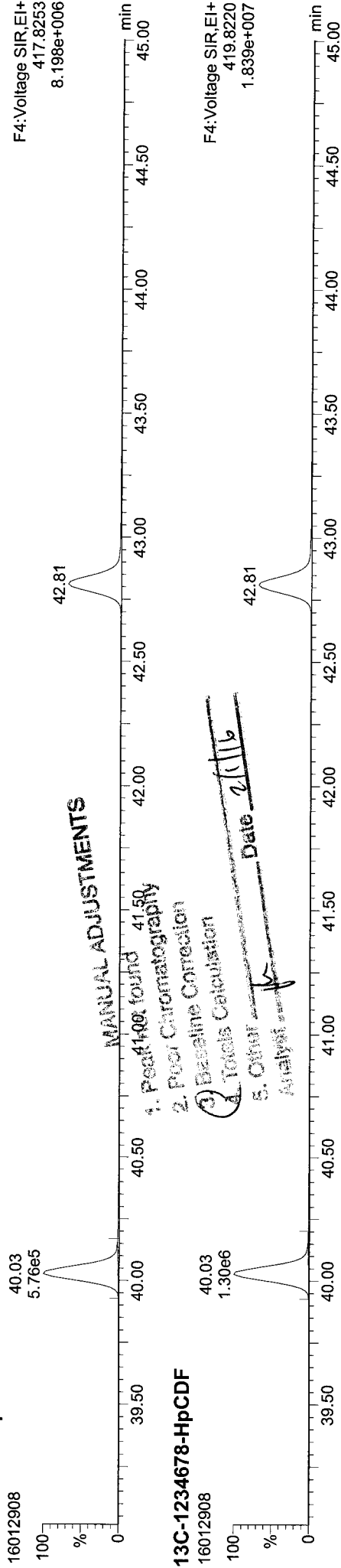


Quantify Sample Report

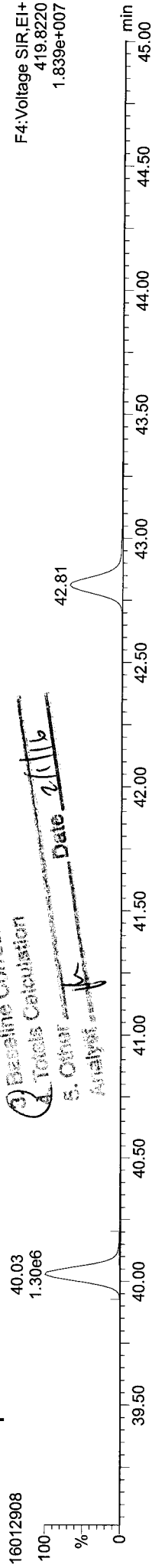
MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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

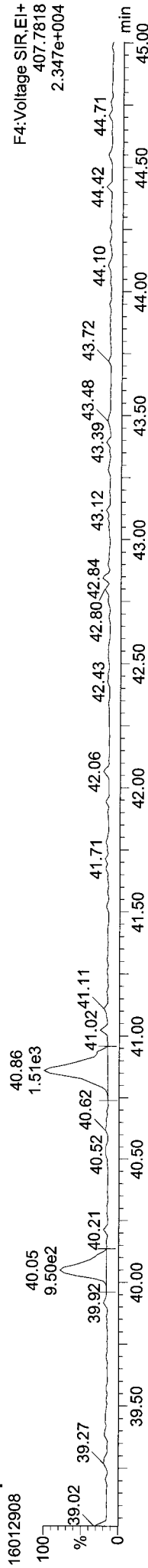
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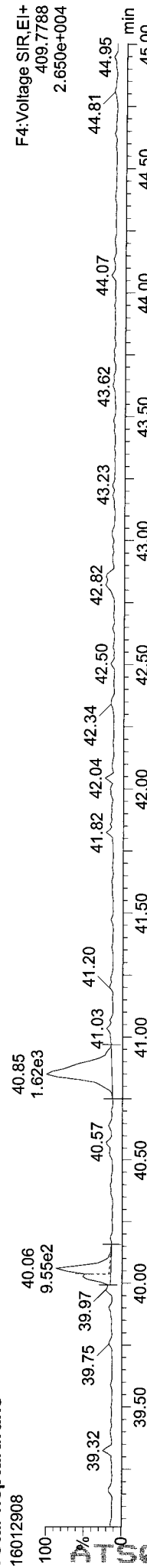
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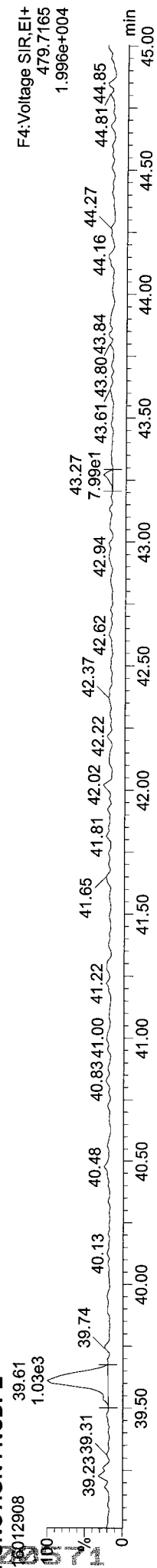
Total-heptafluorans



Total-heptafluorans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

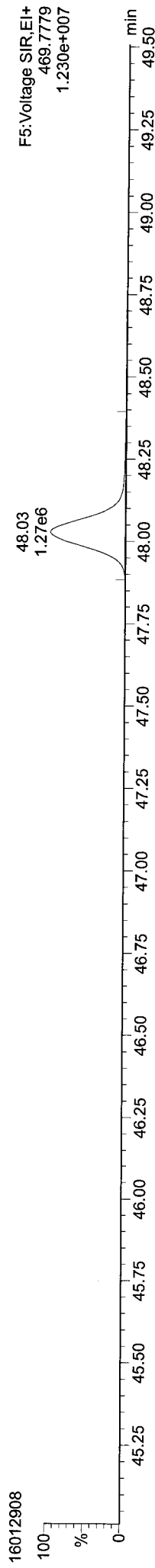
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

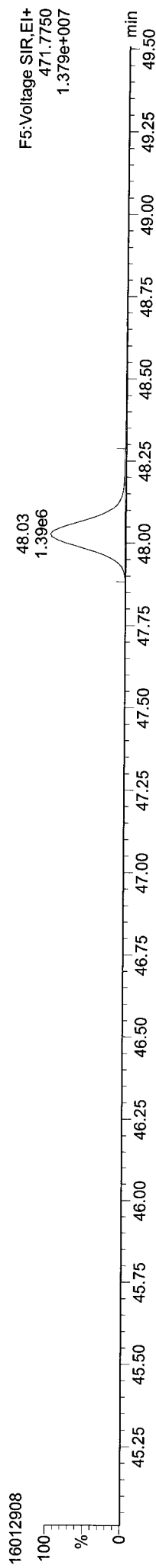
Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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

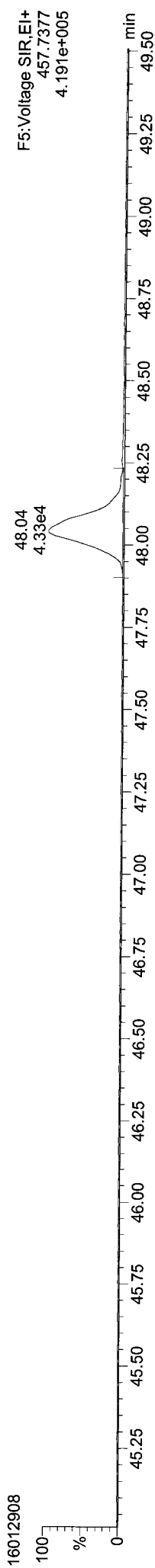
13C-OCDD



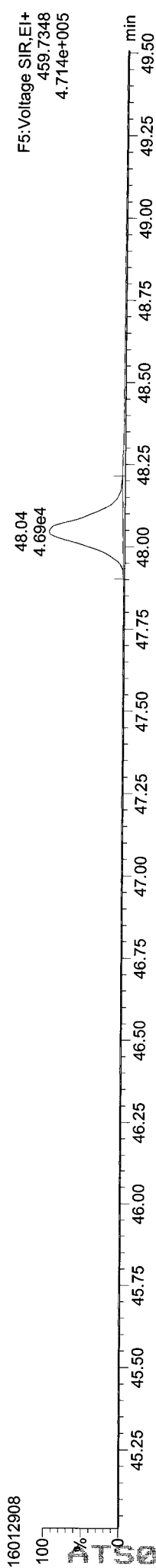
13C-OCDD



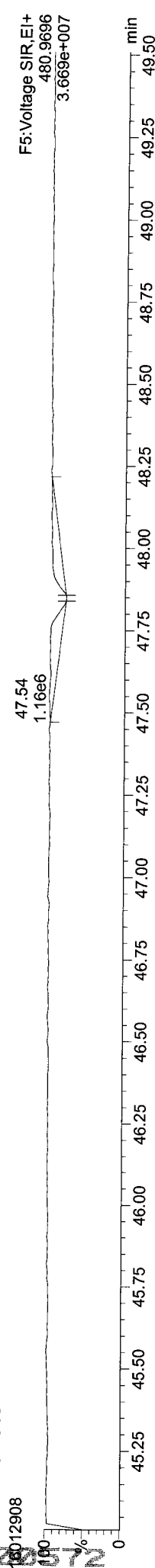
OCDD



OCDD

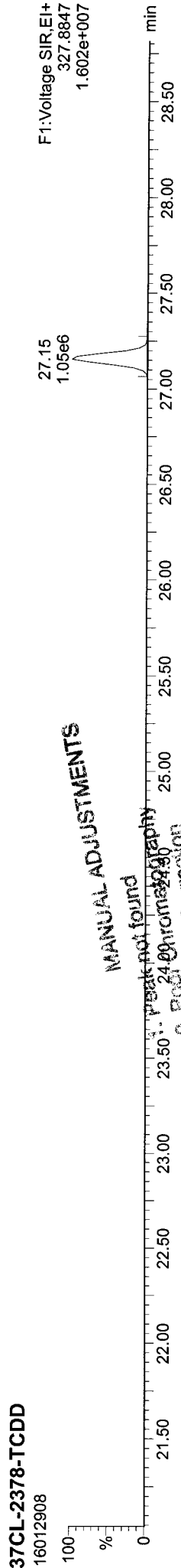


FUNCTIONS PFK



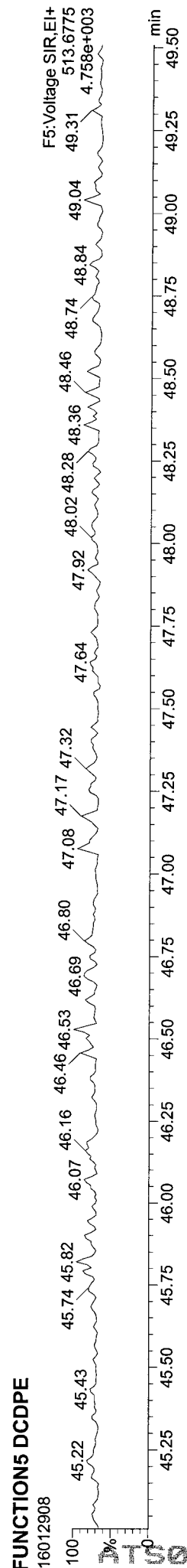
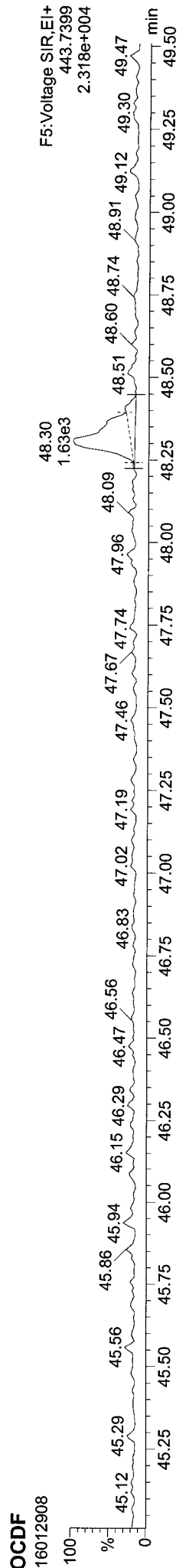
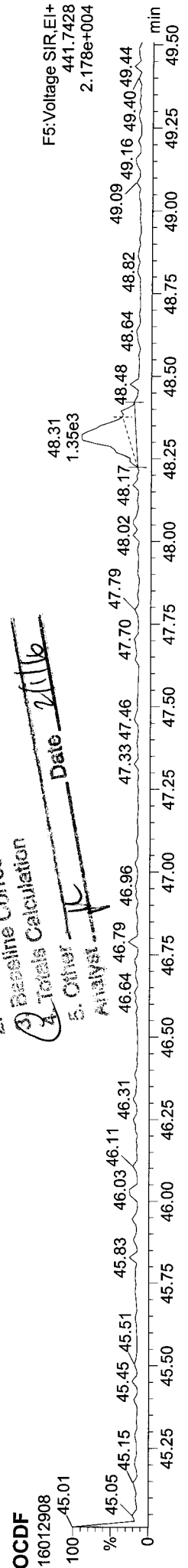
Quantify Sample Report    MassLynx MassLynx V4.1 SCN909  
 Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
 Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
 Printed: Monday, February 01, 2016 12:08:37 Pacific Standard Time

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





**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

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

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  
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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

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**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  
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**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**

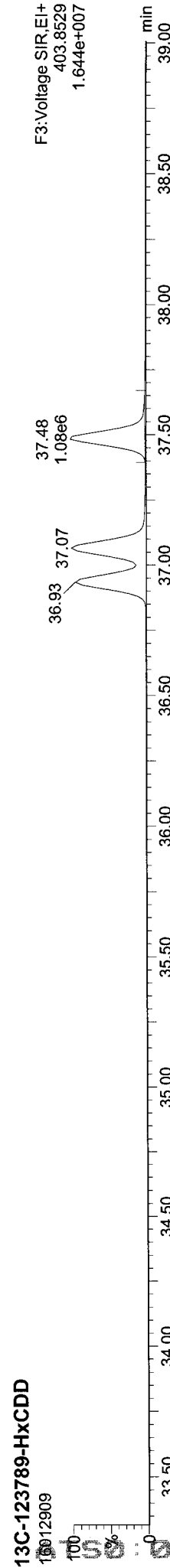
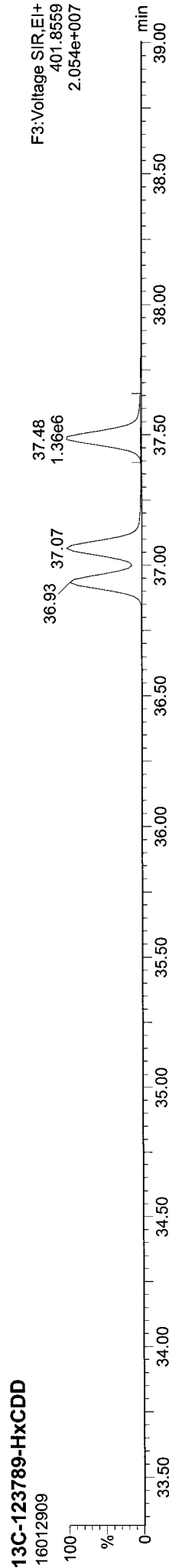
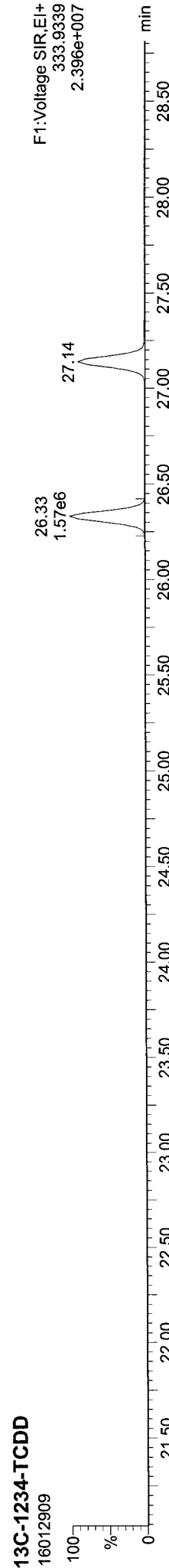
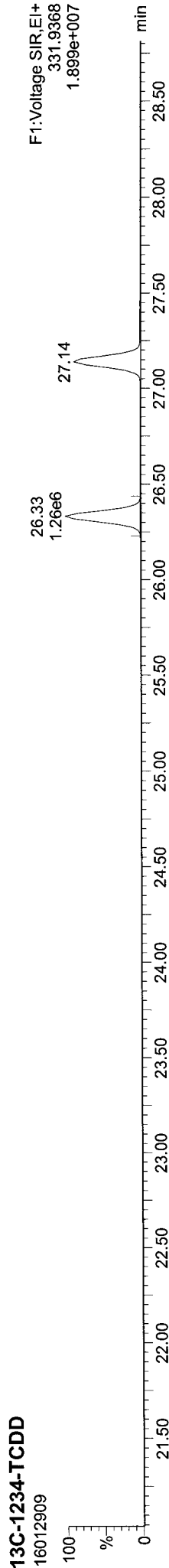
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
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ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

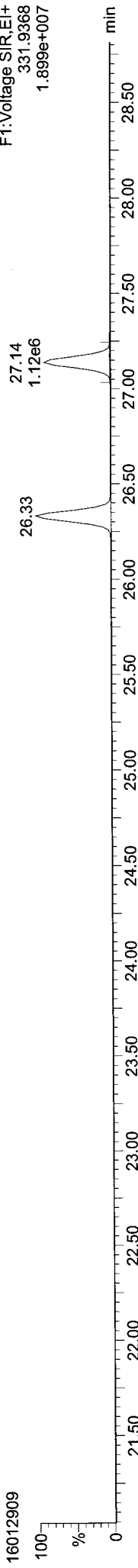


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

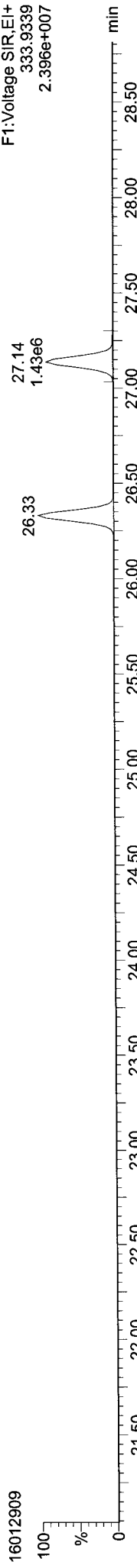
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ID: AT50C, Name: 16012909, Date: 29-Jan-2016, Time: 18:55:08, Conditions: AUTOSPEC01, User: pk

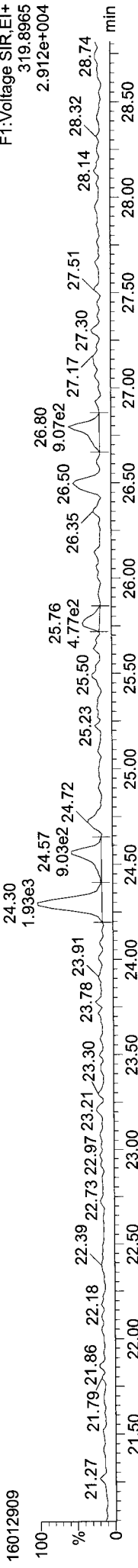
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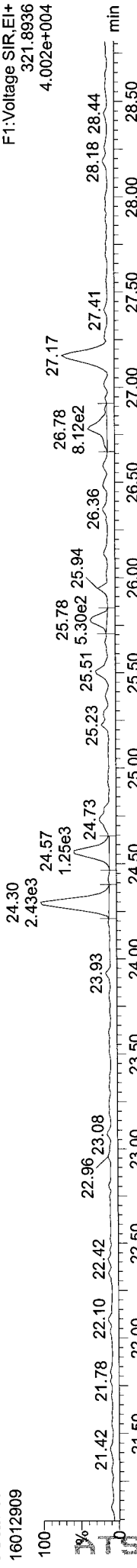
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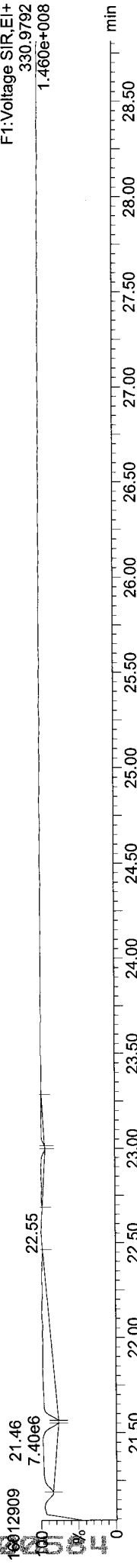
Total-tetradiioxins



Total-tetradiioxins

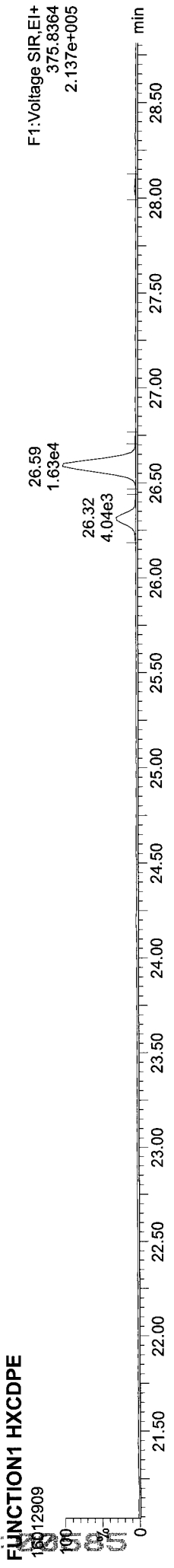
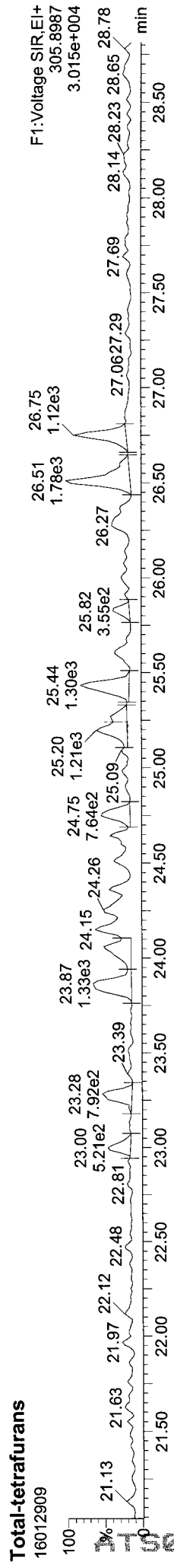
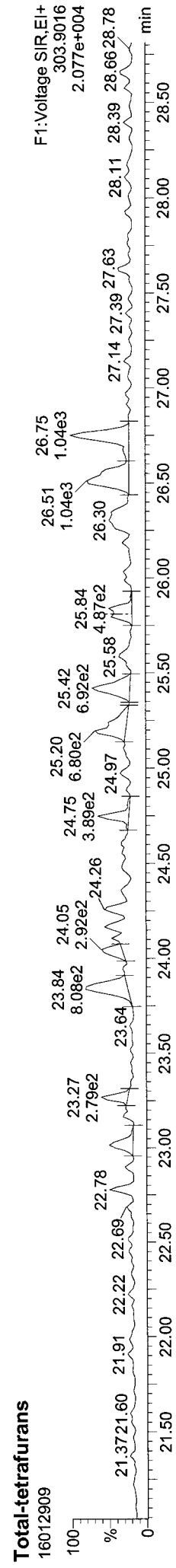
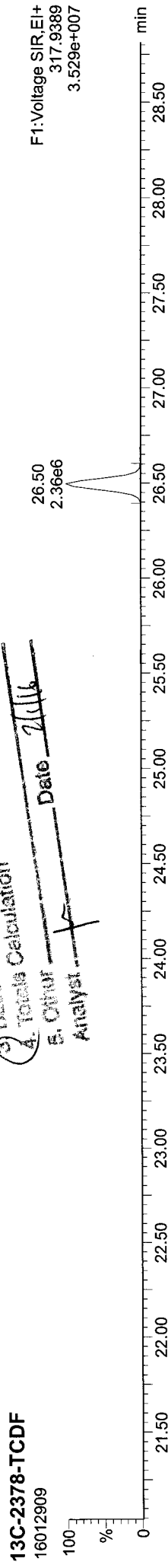
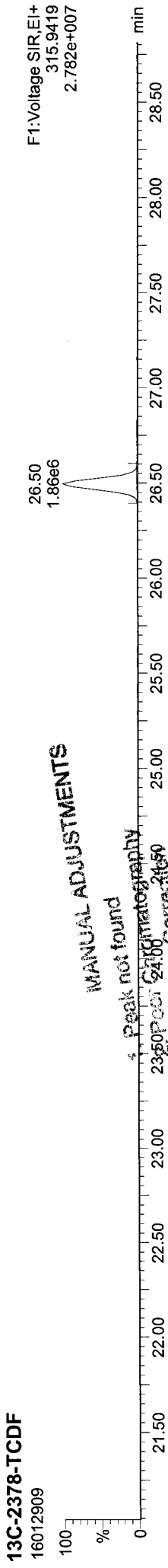


FUNCTION1 PFK



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

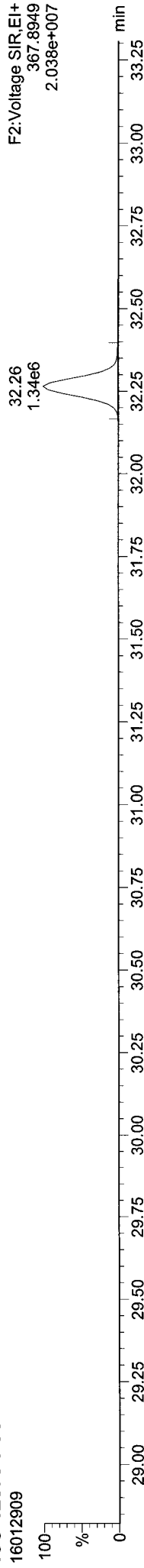


Quantify Sample Report MassLynx V4.1 SCN909

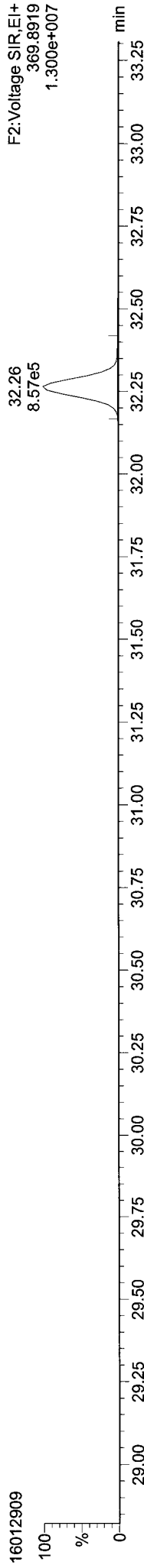
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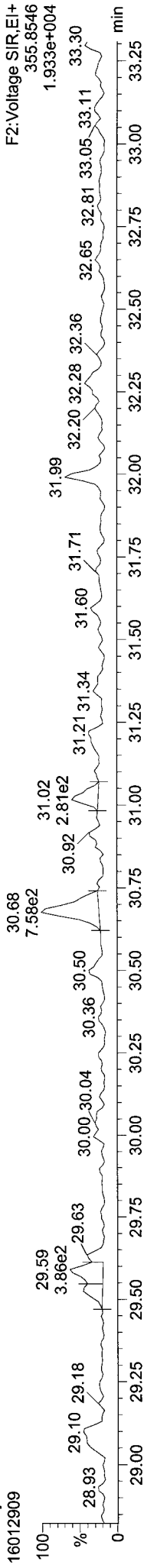
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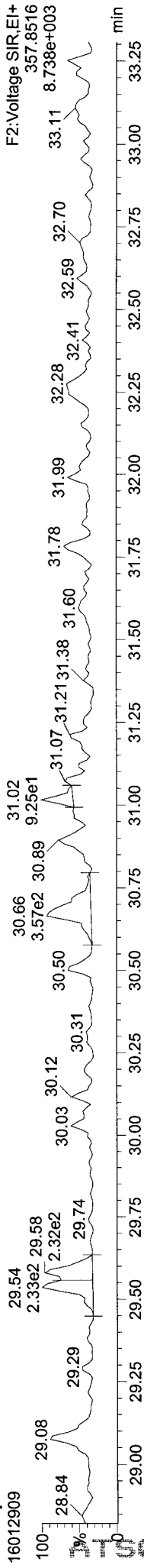
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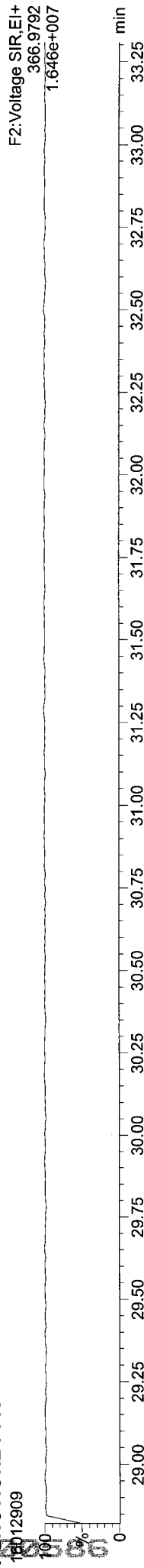
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

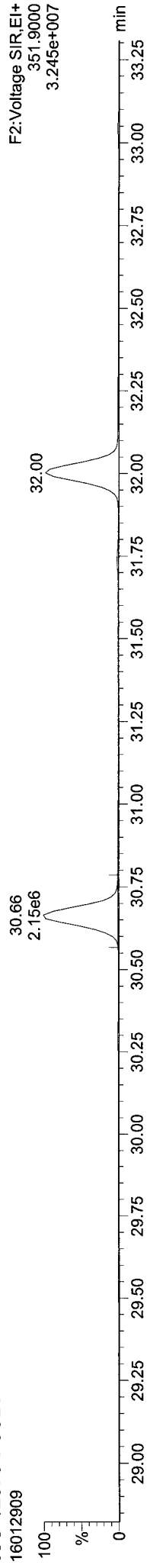
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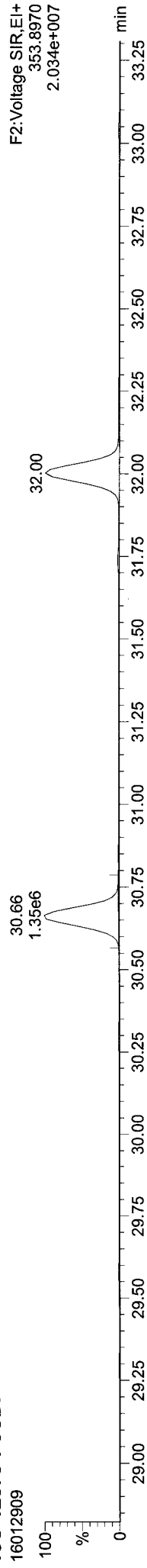
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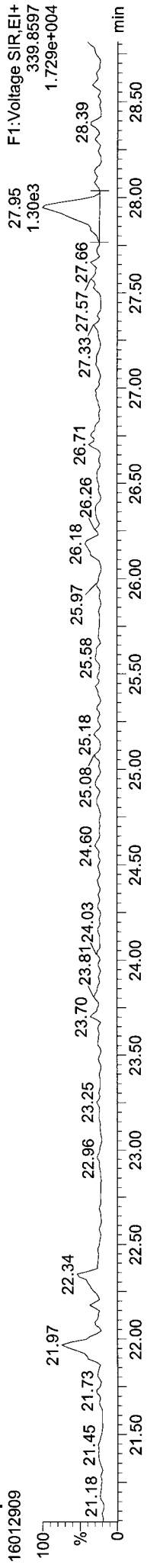
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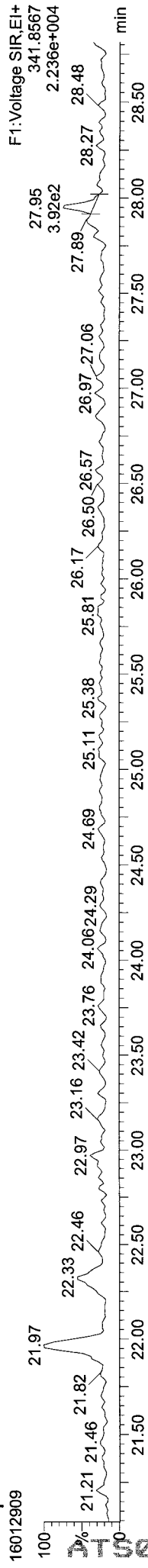
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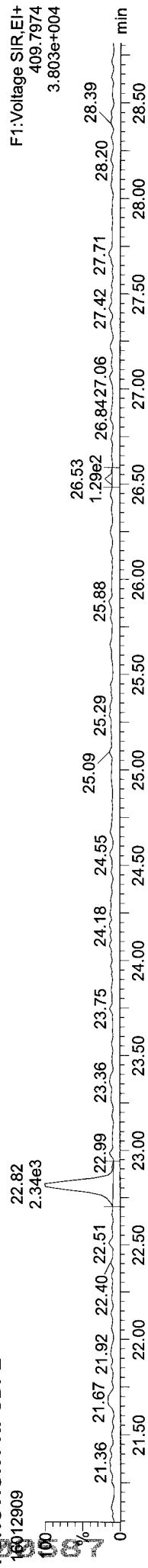
Total-penta1



Total-penta1



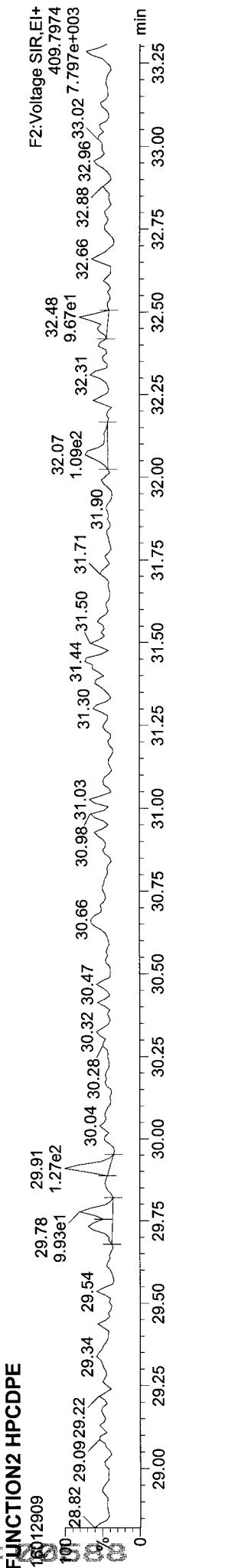
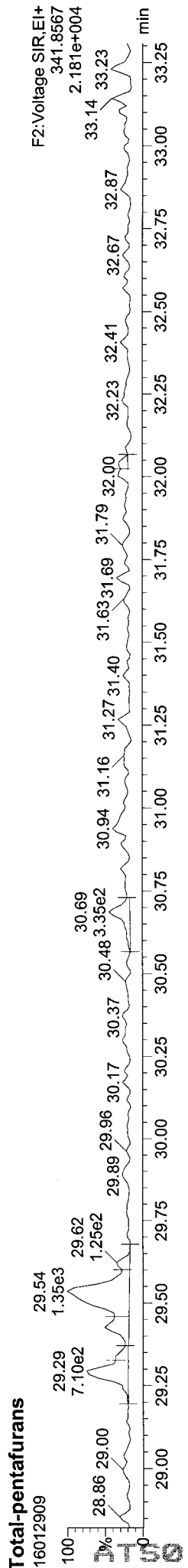
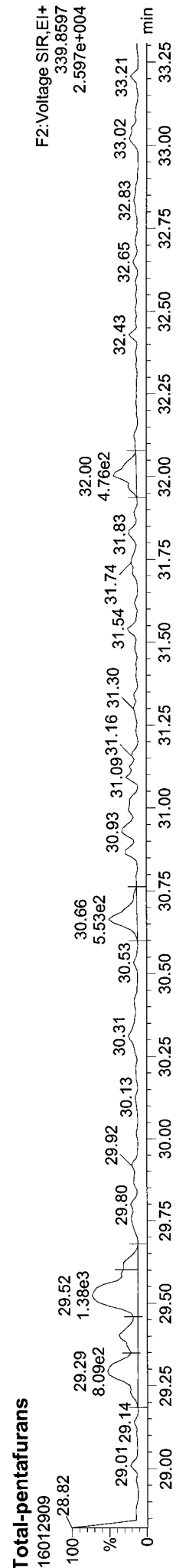
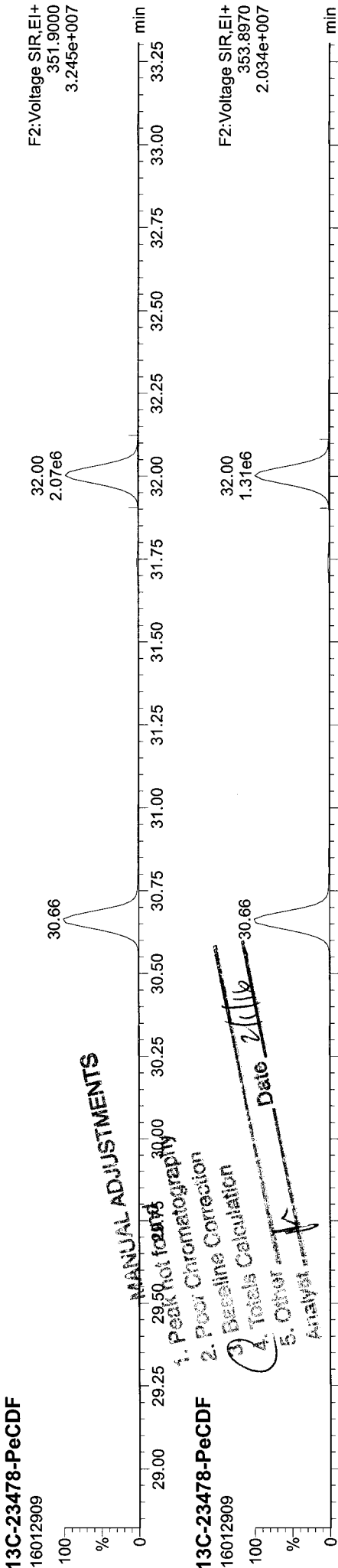
FUNCTION1 HPCDPE



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  
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

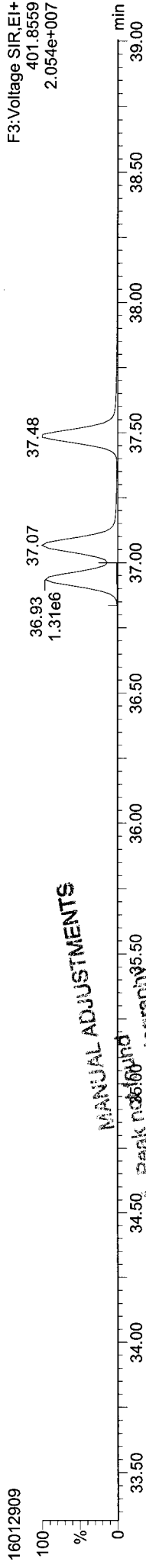


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

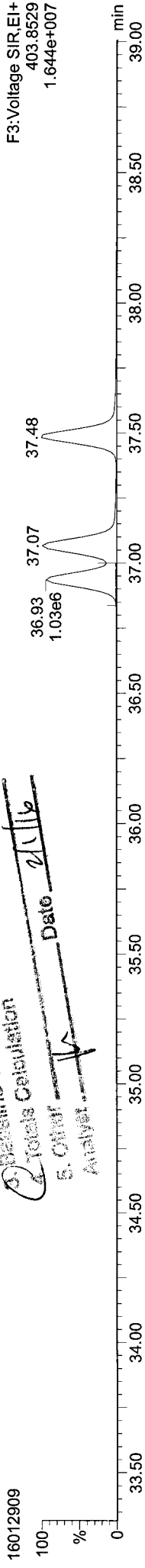
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

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

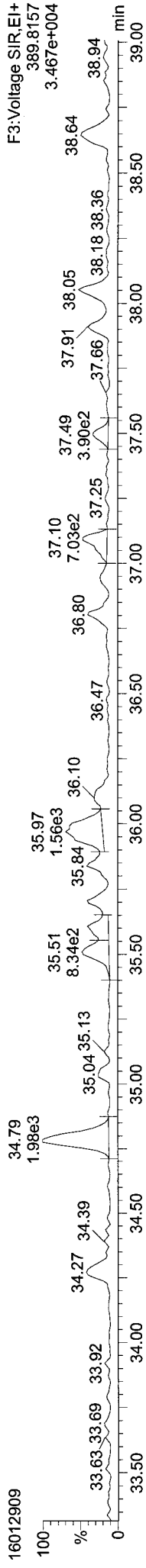
13C-123478-HxCDD



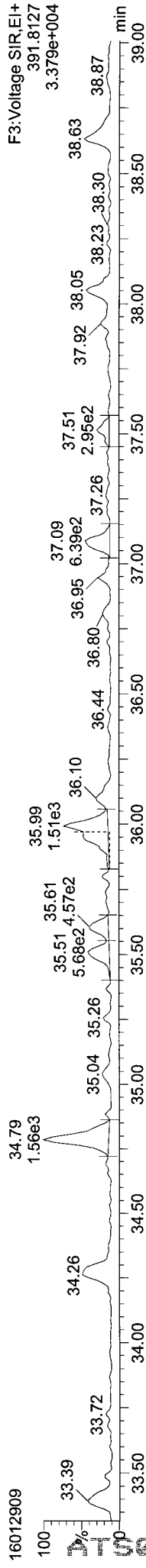
13C-123478-HxCDD



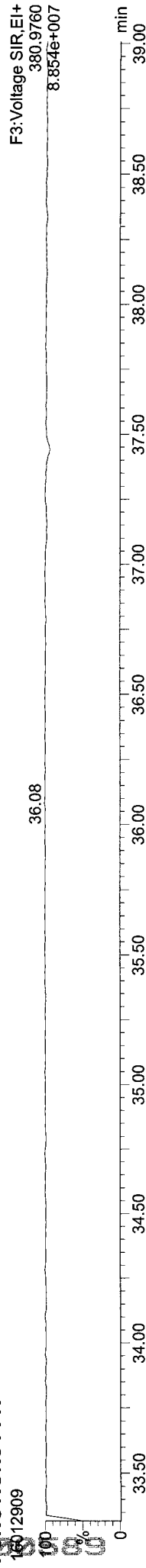
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK





Quantify Sample Report MassLynx MassLynx V4.1 SCN909

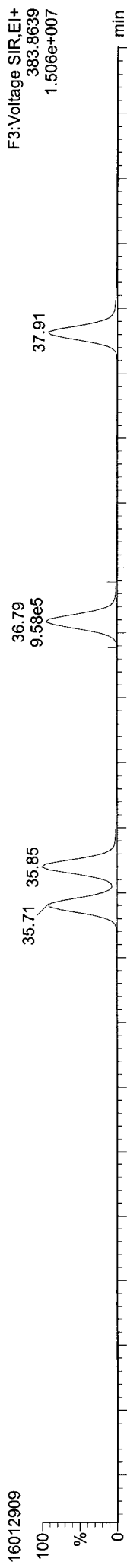
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

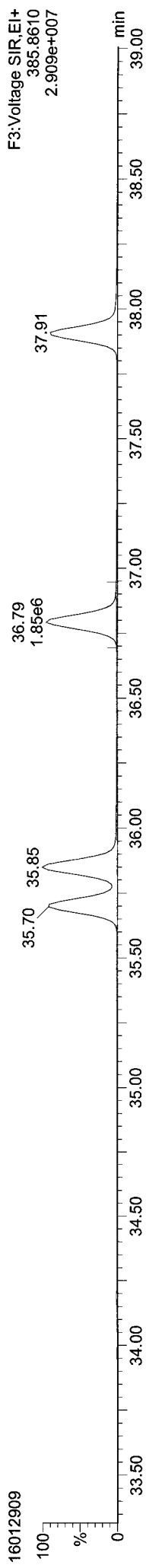
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

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

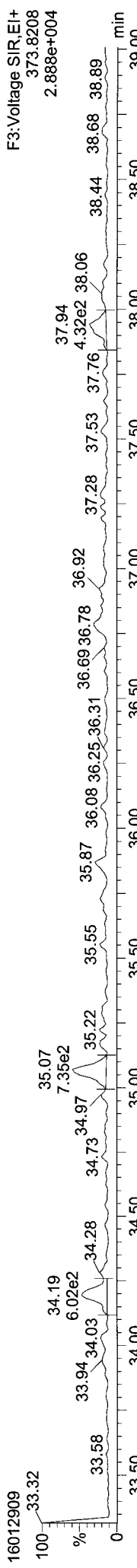
13C-234678-HxCDF



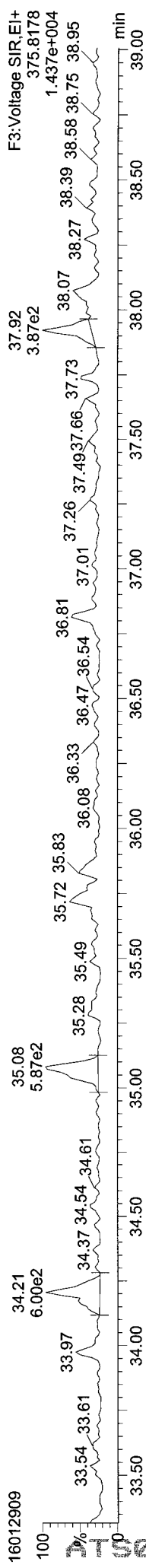
13C-234678-HxCDF



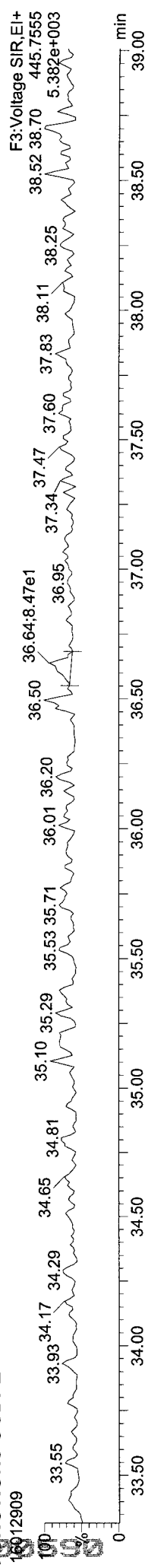
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

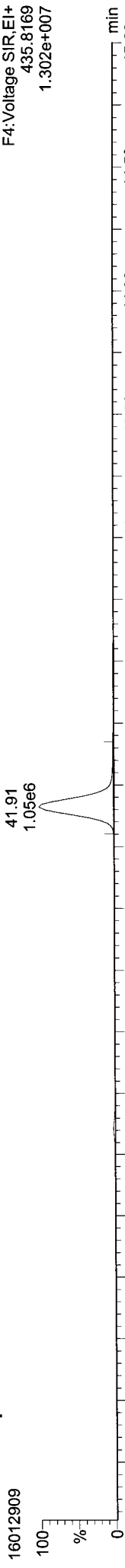


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

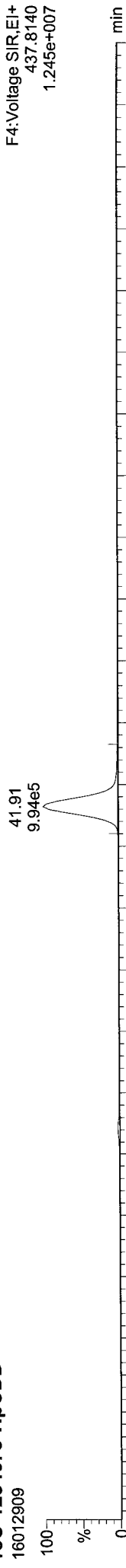
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

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

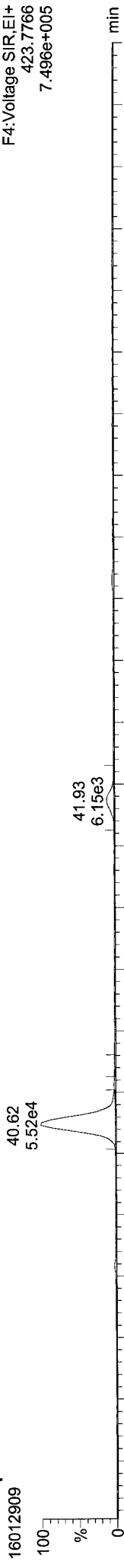
13C-1234678-HpCDD



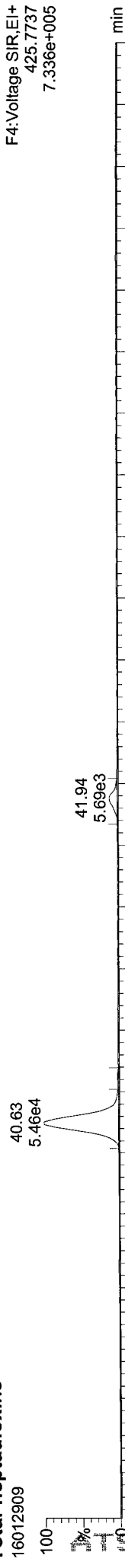
13C-1234678-HpCDD



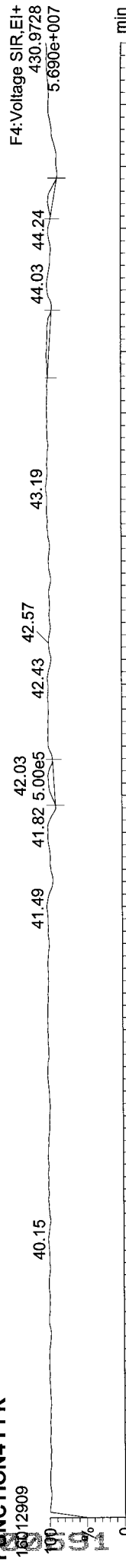
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

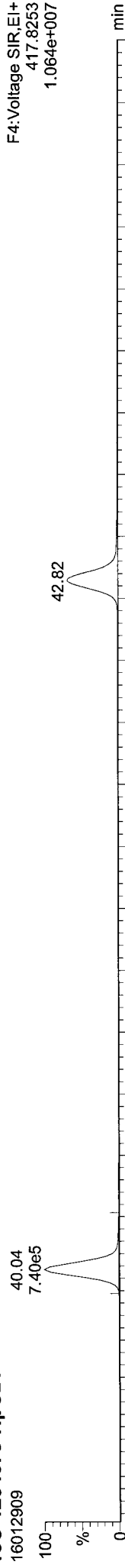
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

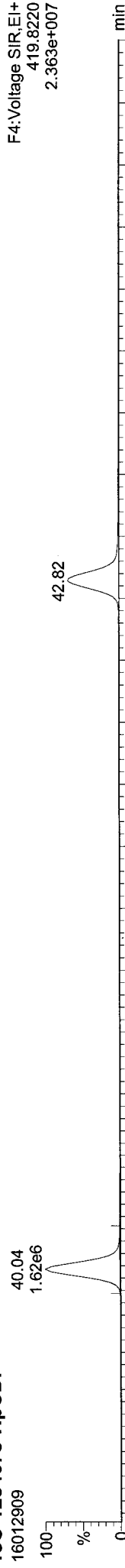
Printed: Monday, February 01, 2016 12:09:11 Pacific Standard Time

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

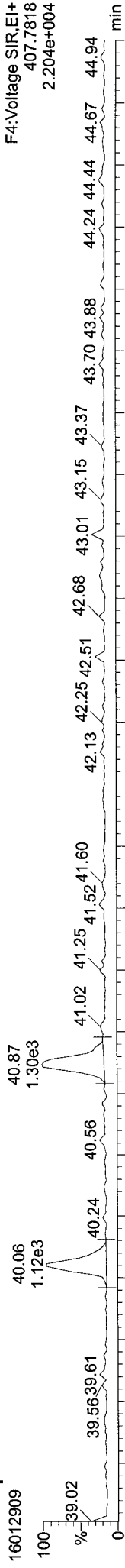
13C-1234678-HpCDF



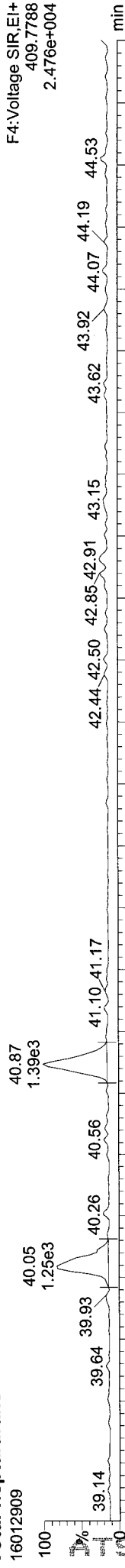
13C-1234678-HpCDF



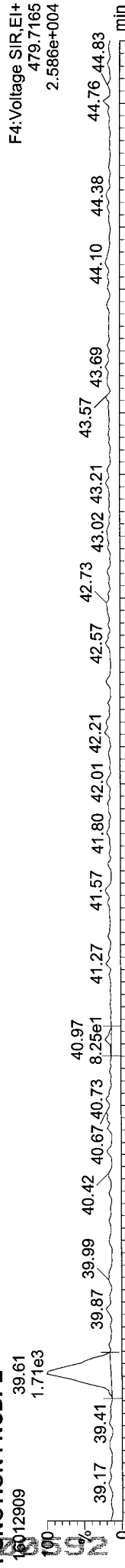
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



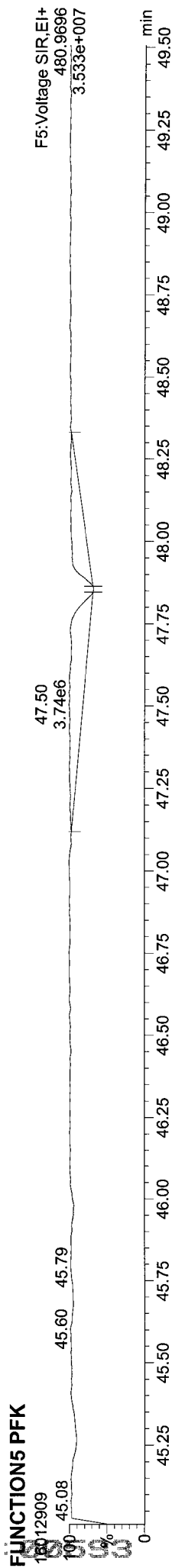
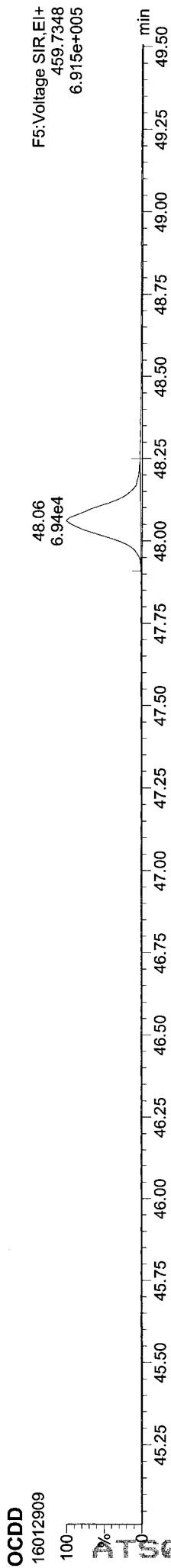
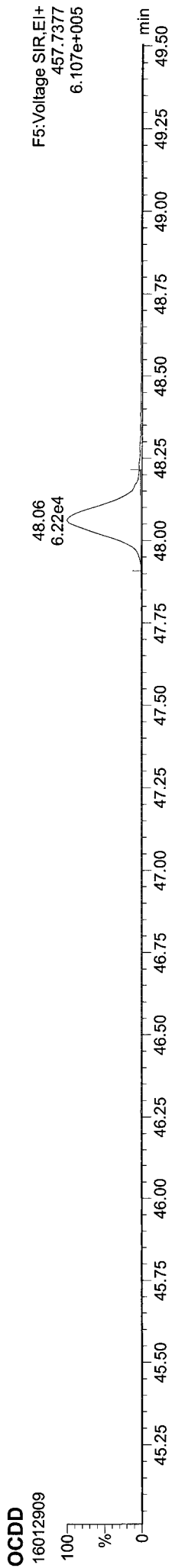
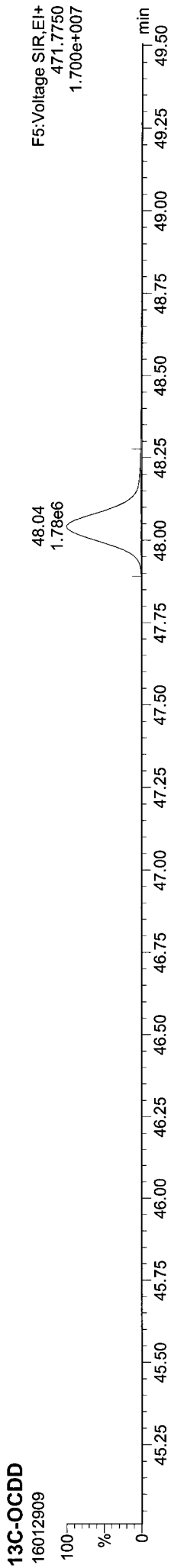
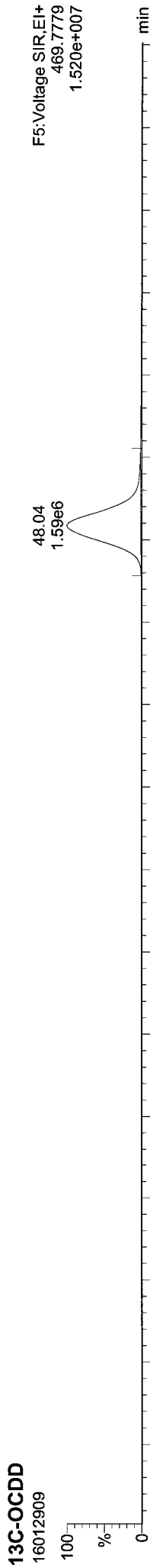
Quantify Sample Report MassLynx V4.1 SCN909

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

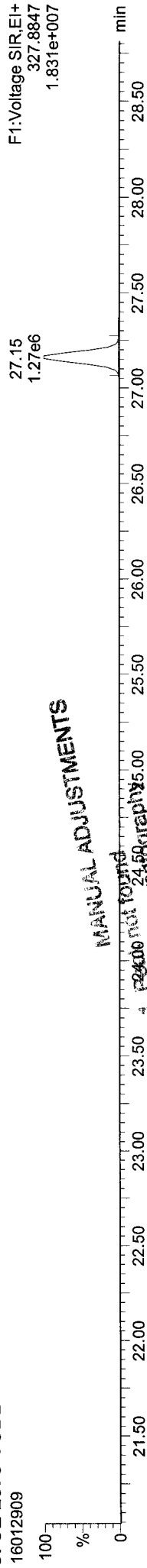


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

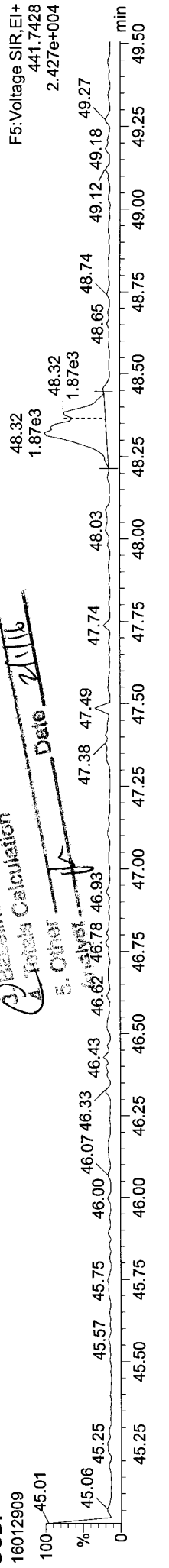
37CL-2378-TCDD



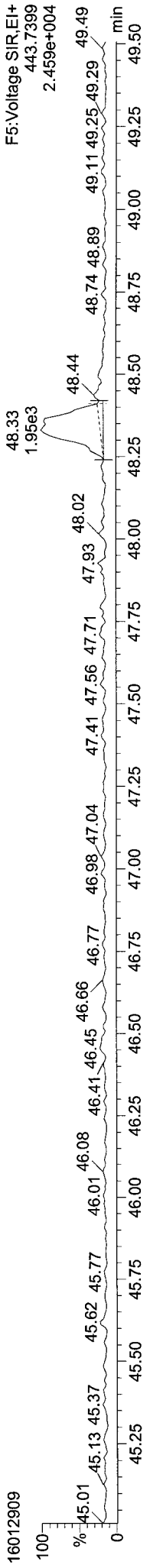
MANUAL ADJUSTMENTS

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

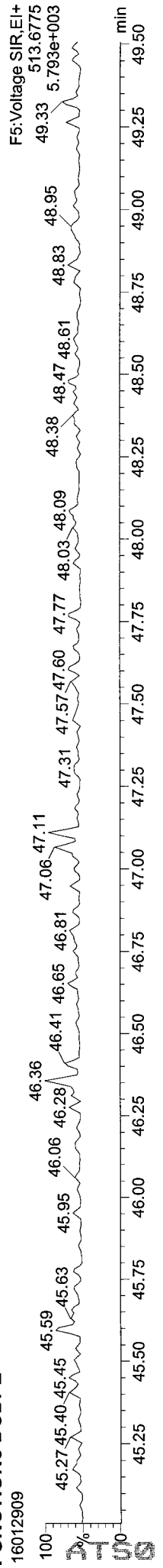
OCDF



OCDF



FUNCTION5 DCDPE



AT00 : 00504

**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

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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

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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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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

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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

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**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										

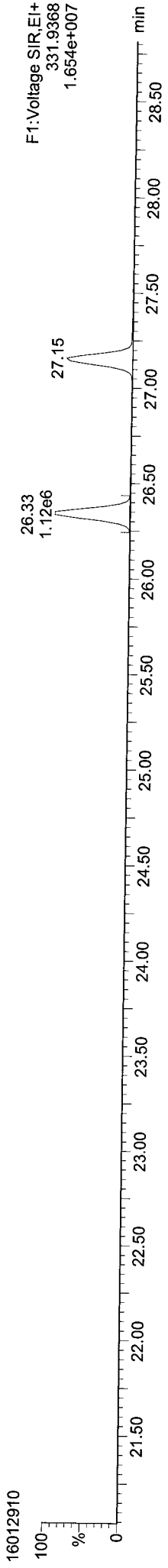
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

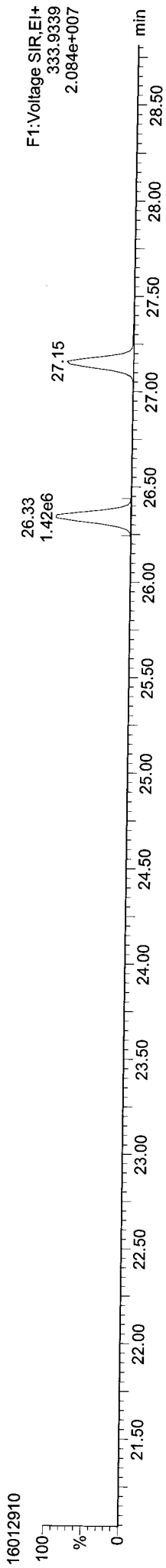
Method: P:\DIOXIN8290.pro\MethDB\IDioxin1601293SN.mdb 29 Jan 2016 12:40:27  
Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

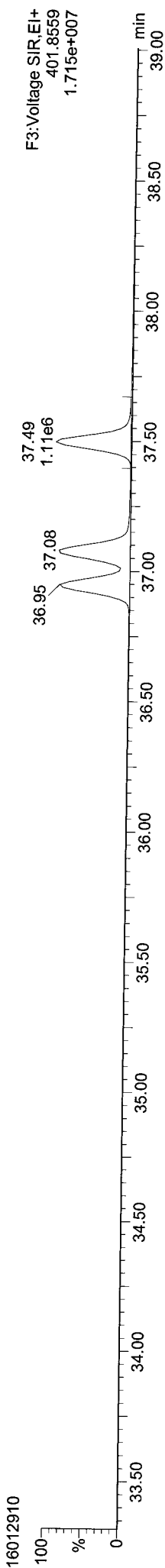
13C-1234-TCDD



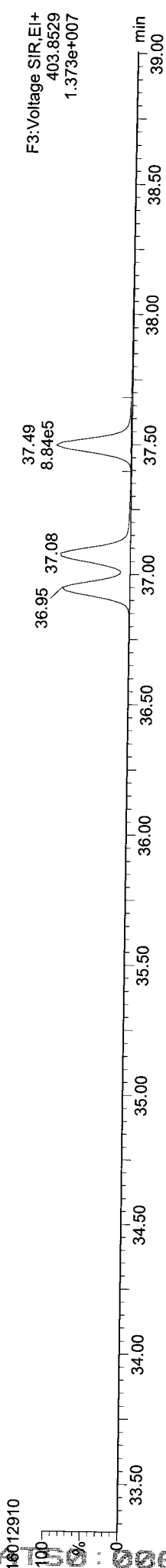
13C-1234-TCDD



13C-123789-HxCDD



13C-123789-HxCDD



59:00605

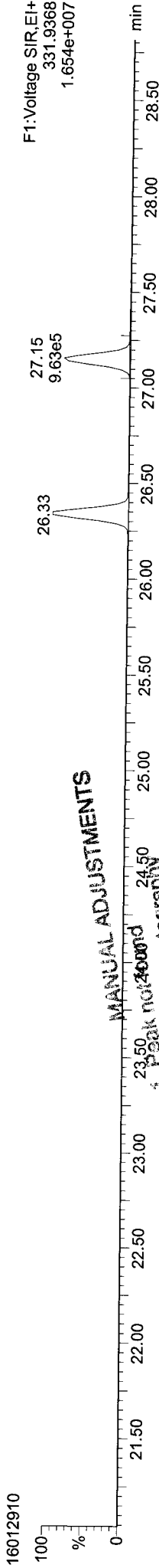


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

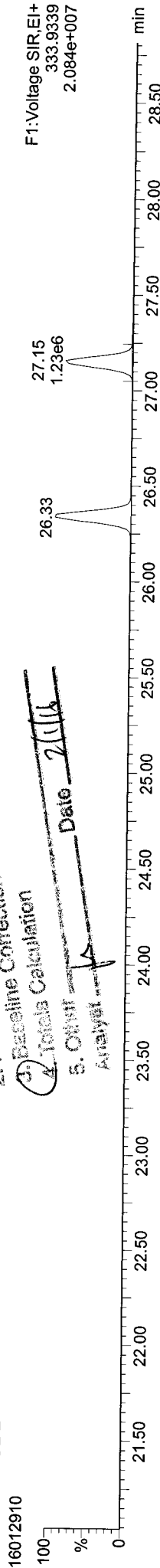
ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD



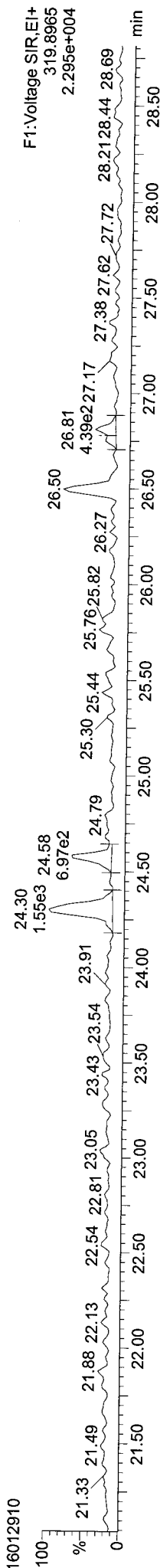
F1: Voltage SIR, EI+  
331.9368  
1.654e+007

13C-2378-TCDD



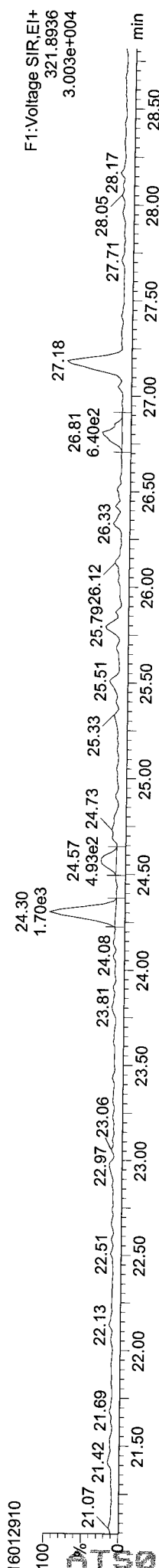
F1: Voltage SIR, EI+  
333.9339  
2.084e+007

Total-tetradoxins



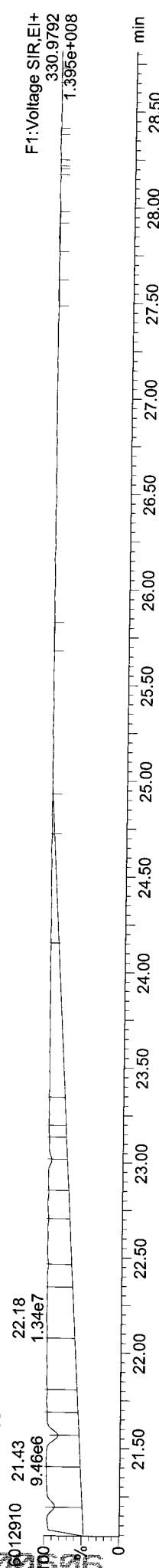
F1: Voltage SIR, EI+  
319.8965  
2.295e+004

Total-tetradoxins



F1: Voltage SIR, EI+  
321.8936  
3.003e+004

FUNCTION1 PFK



F1: Voltage SIR, EI+  
330.9792  
1.355e+008

MANUAL ADJUSTMENTS

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

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

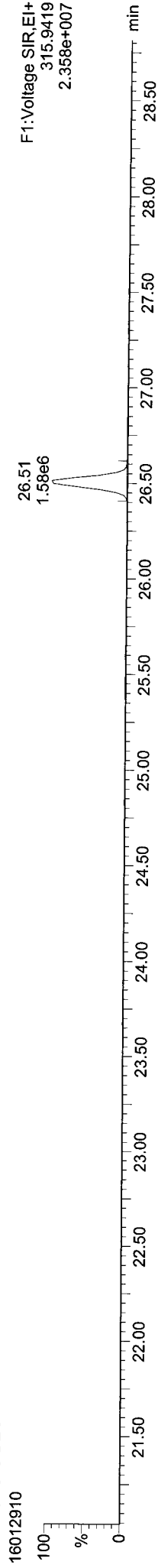
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

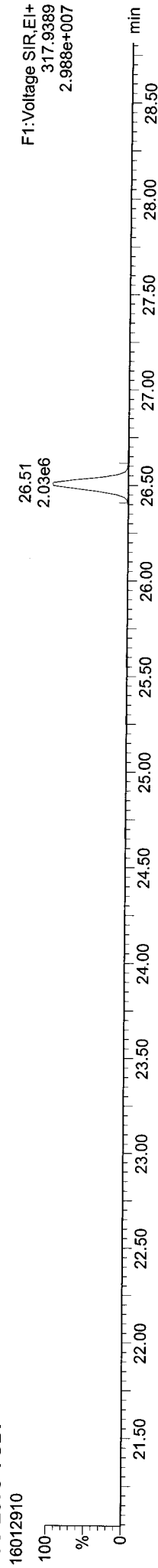
ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



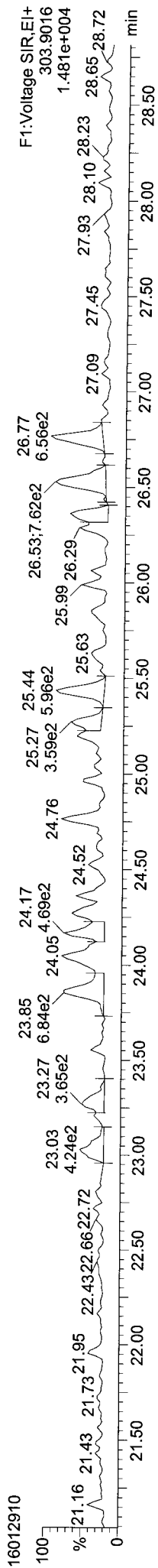
F1: Voltage SIR, EI+  
315.9419  
2.358e+007

13C-2378-TCDF



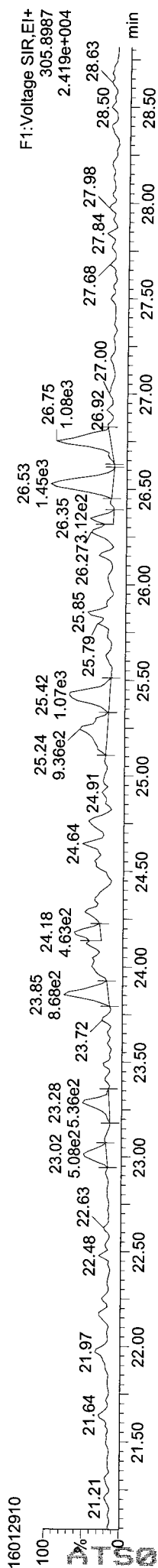
F1: Voltage SIR, EI+  
317.9389  
2.988e+007

Total-tetrafurans



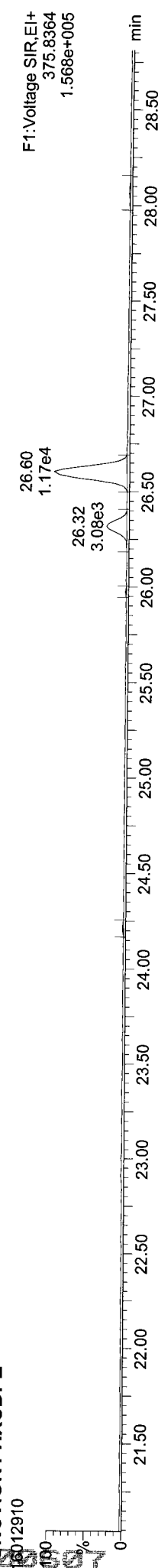
F1: Voltage SIR, EI+  
303.9016  
1.481e+004

Total-tetrafurans



F1: Voltage SIR, EI+  
305.8987  
2.419e+004

FUNCTION1 HXCDPE



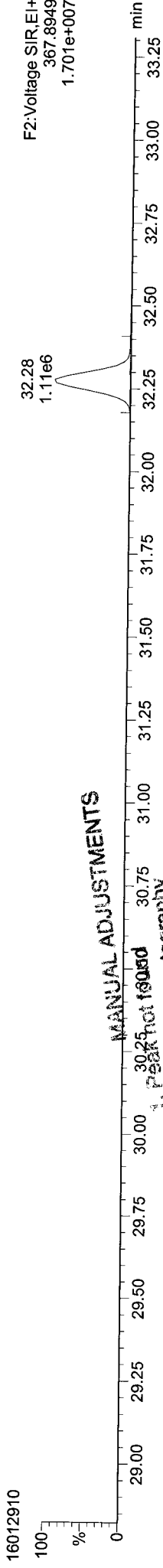
F1: Voltage SIR, EI+  
375.8364  
1.568e+005

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

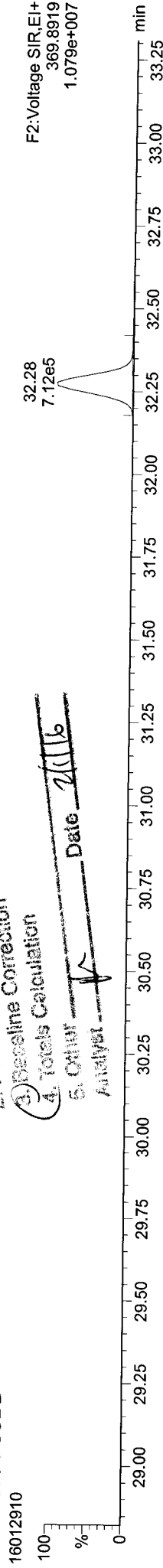
13C-12378-PeCDD



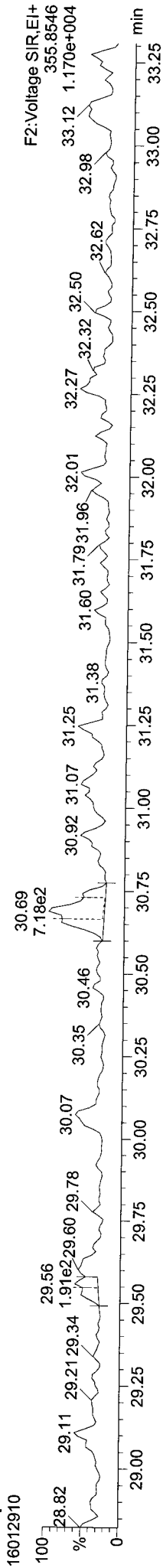
MANUAL ADJUSTMENTS

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

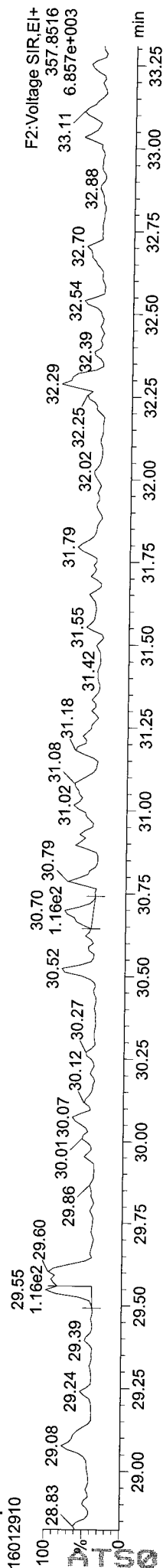
13C-12378-PeCDD



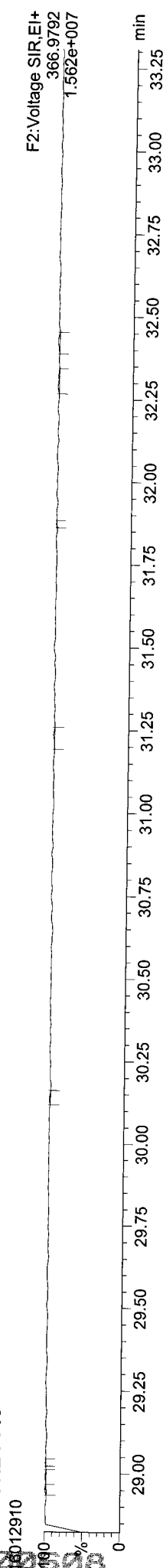
Total-pentadioxins



Total-pentadioxins

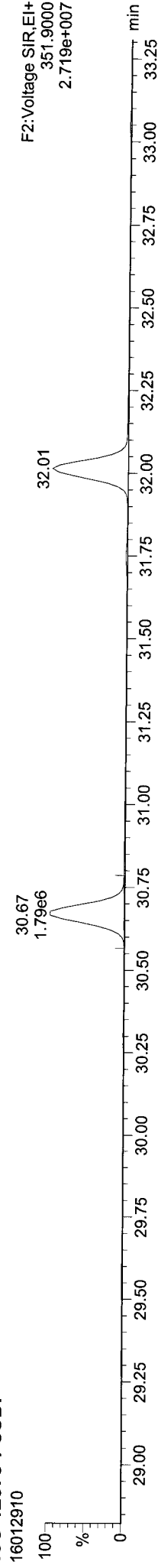


FUNCTION2 PFK

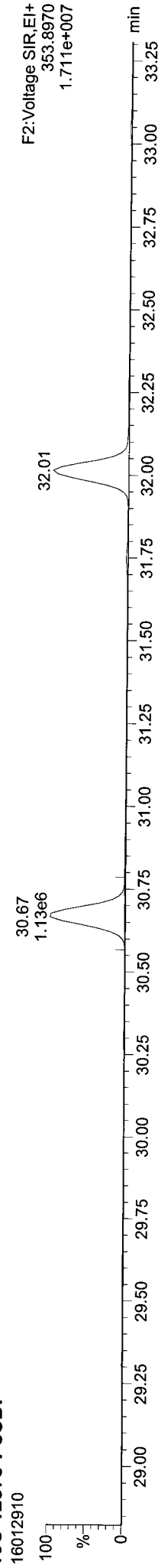


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

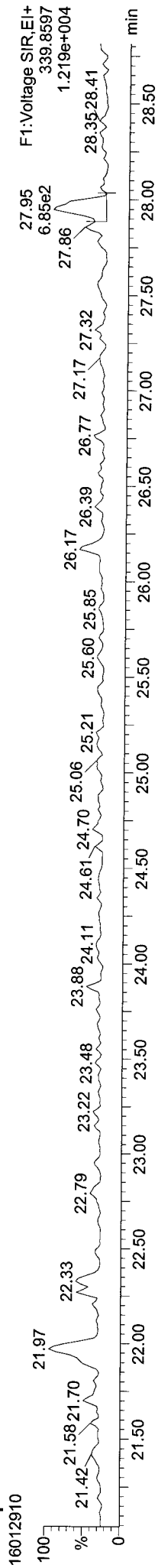
13C-12378-PeCDF



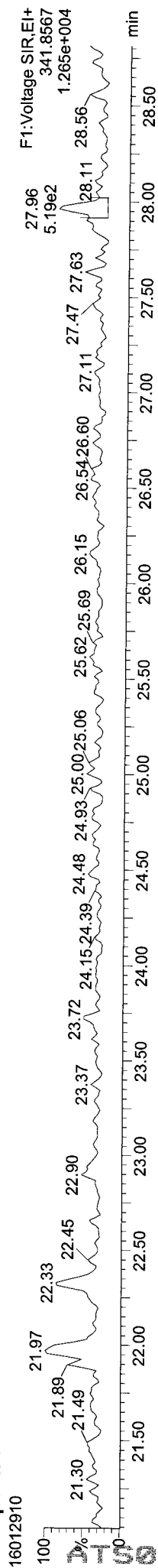
13C-12378-PeCDF



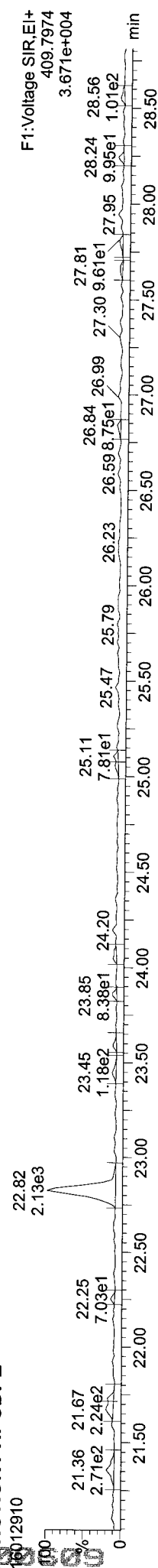
Total-penta1



Total-penta1

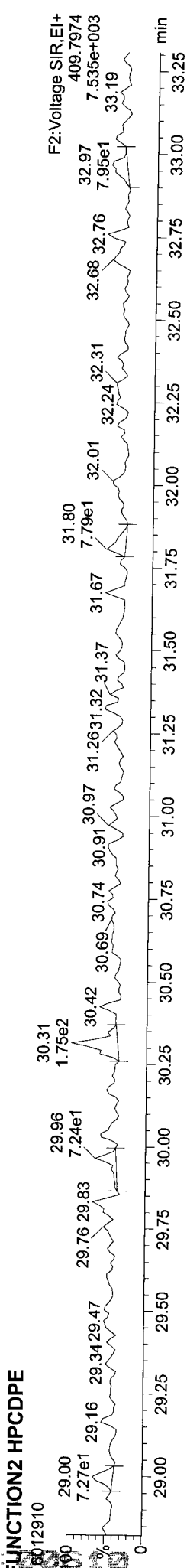
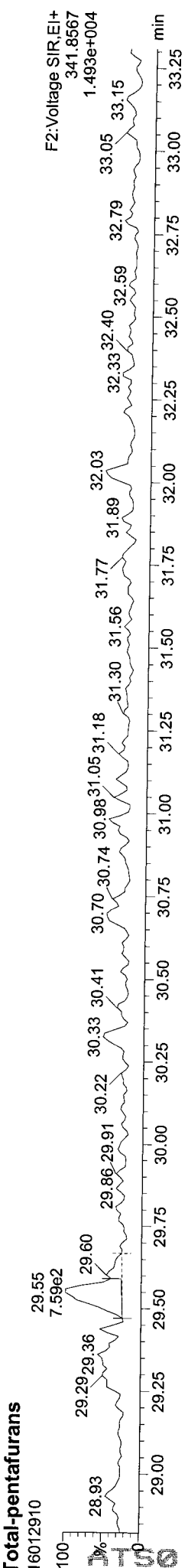
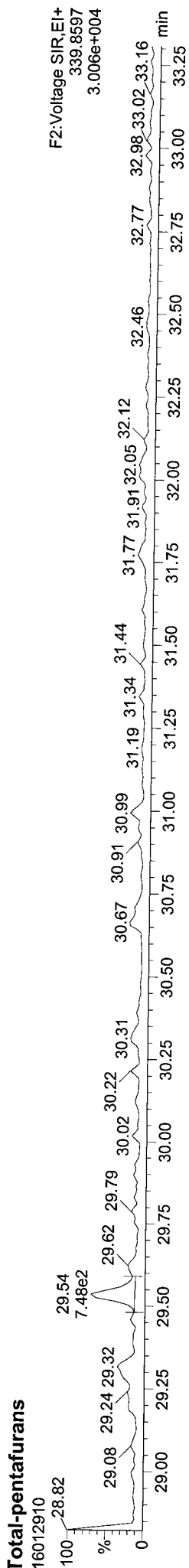
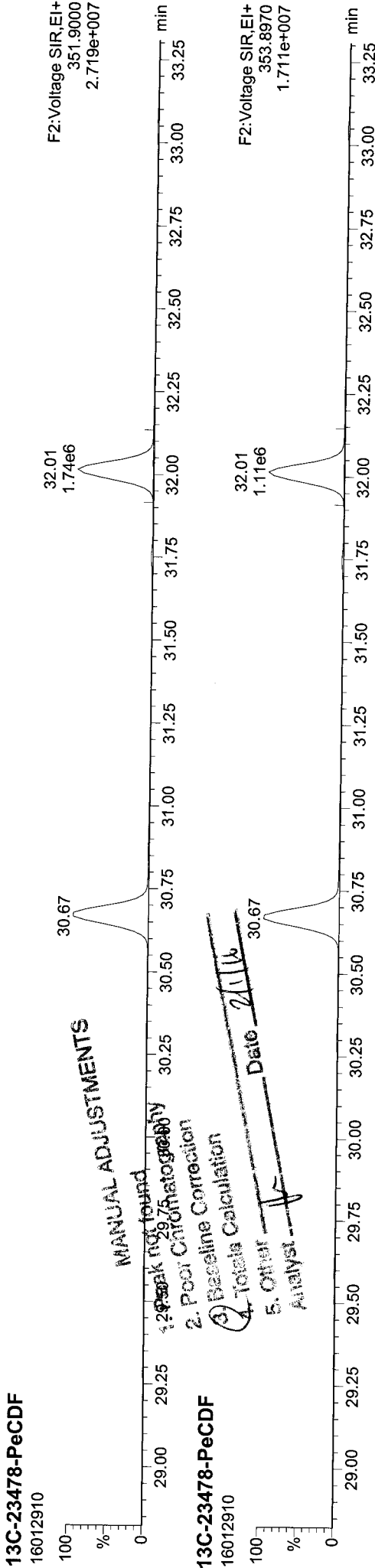


FUNCTION1 HPCDPE



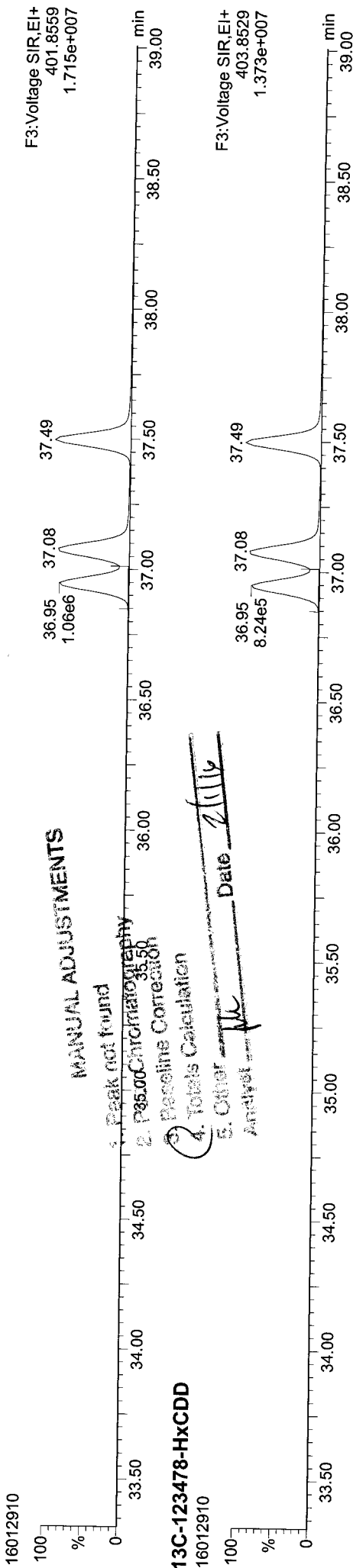
Quantify Sample Report MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

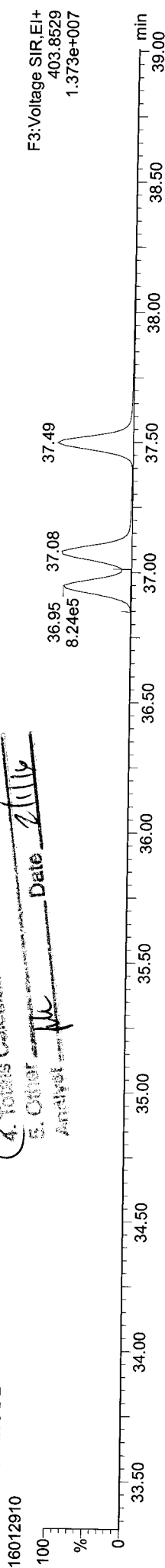


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

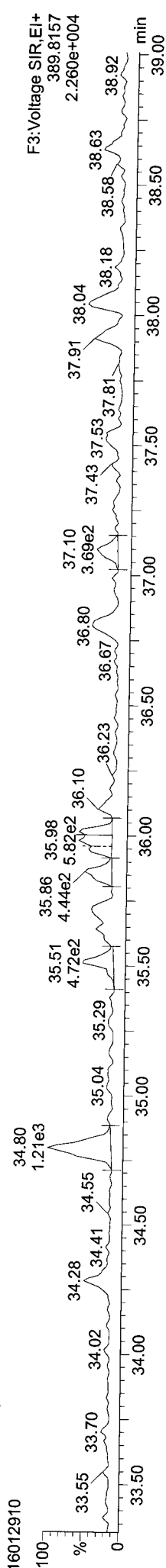
13C-123478-HxCDD



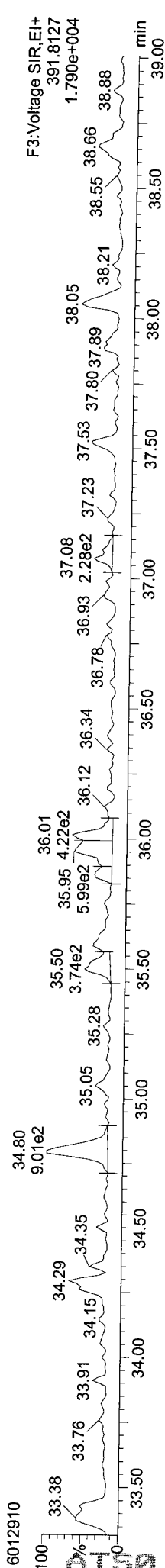
13C-123478-HxCDD



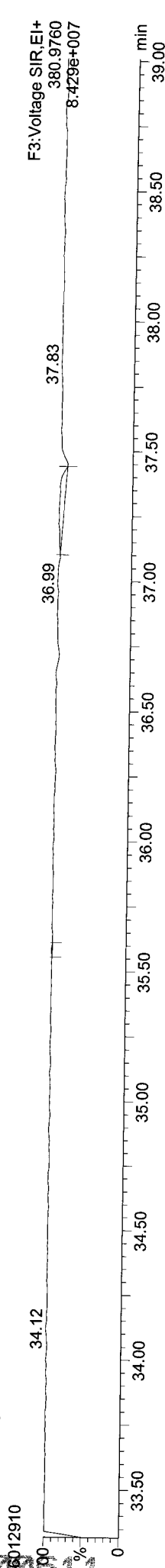
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

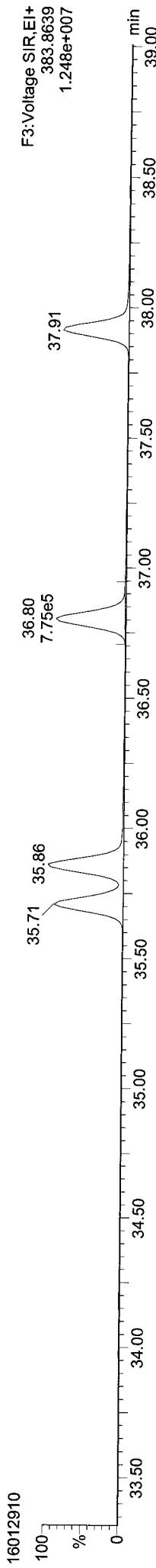


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

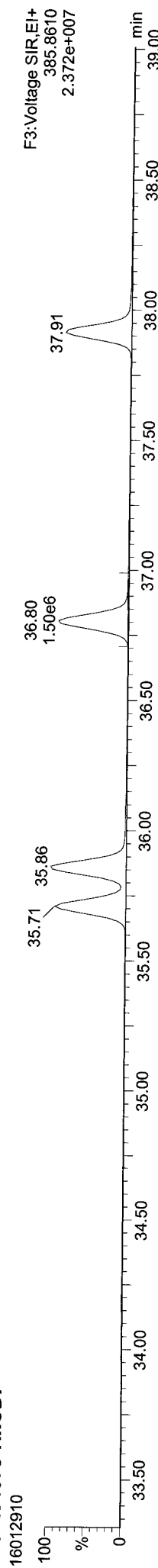
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:15 Pacific Standard Time

ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

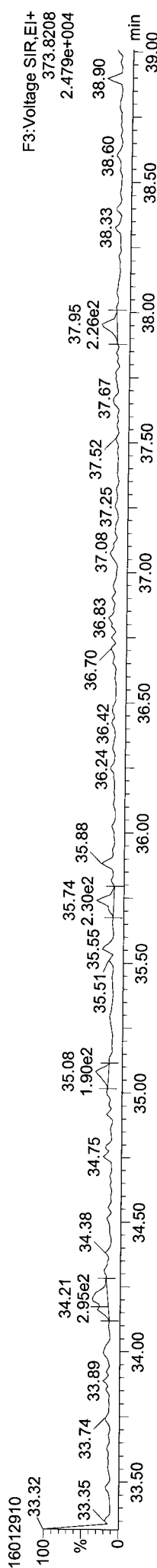
13C-234678-HxCDF



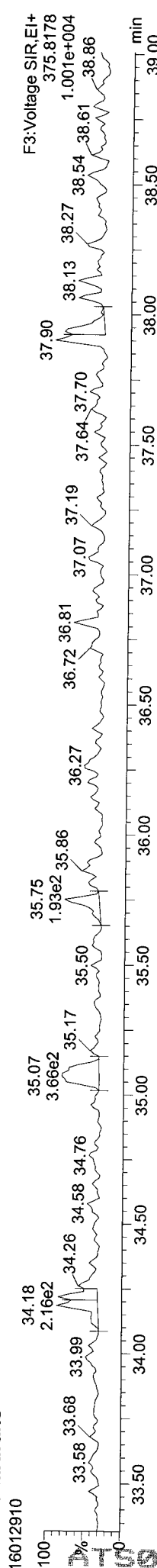
13C-234678-HxCDF



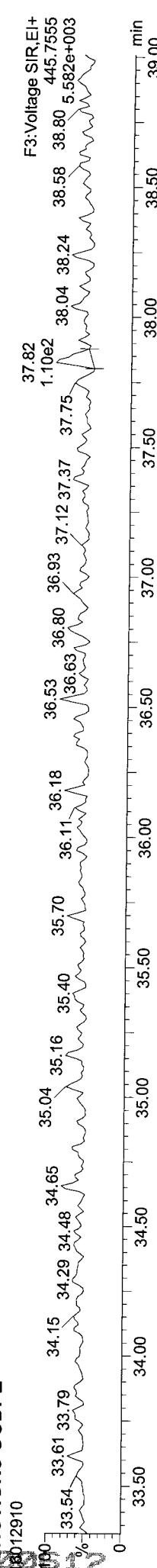
Total-hexafurans



Total-hexafurans

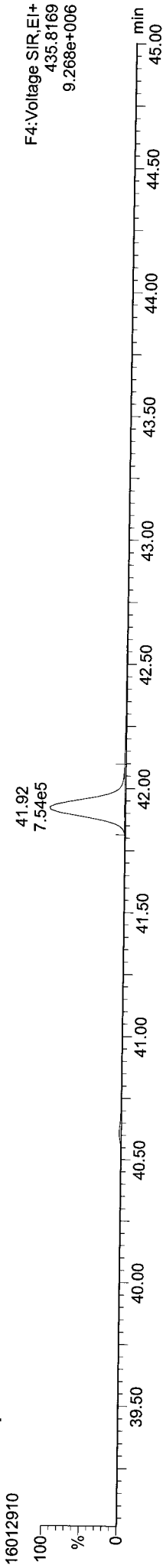


FJUNCTION3 OCDPE

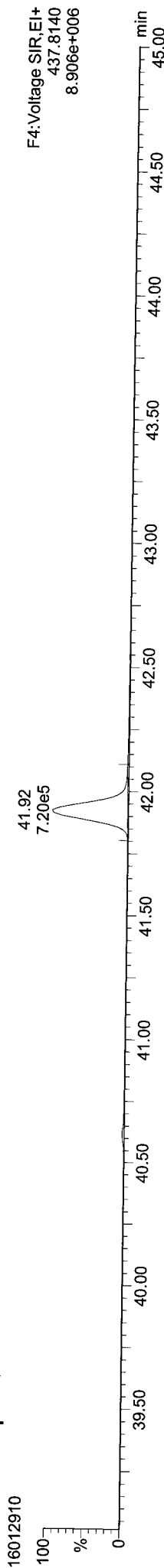


ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk

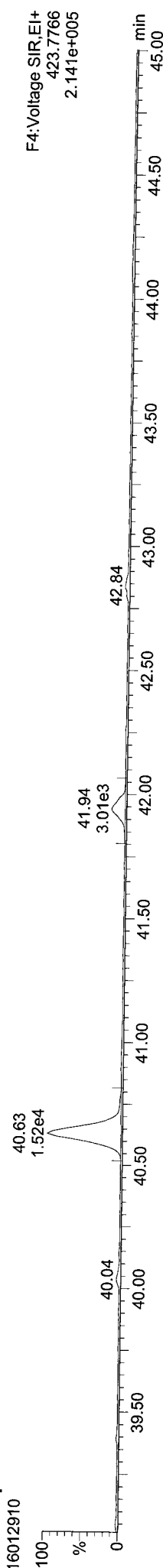
13C-1234678-HpCDD



13C-1234678-HpCDD



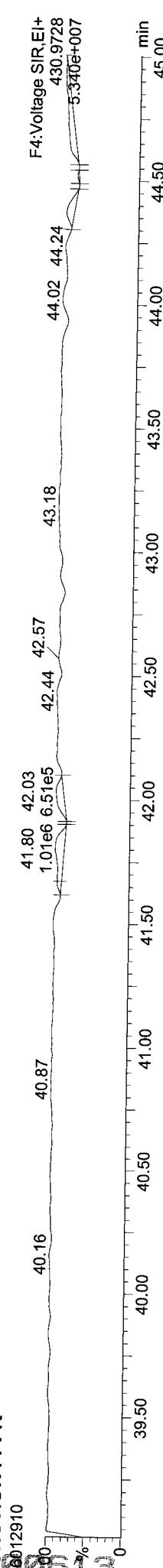
Total-heptadioxins



Total-heptadioxins

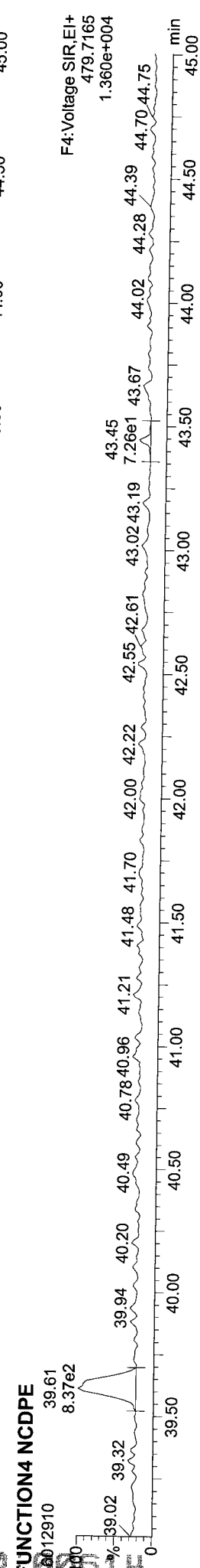
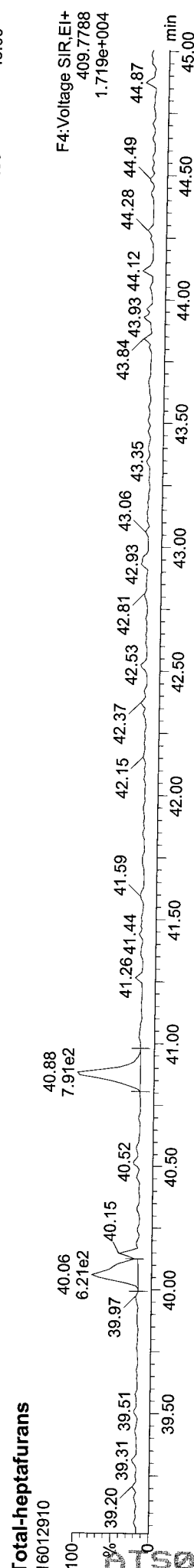
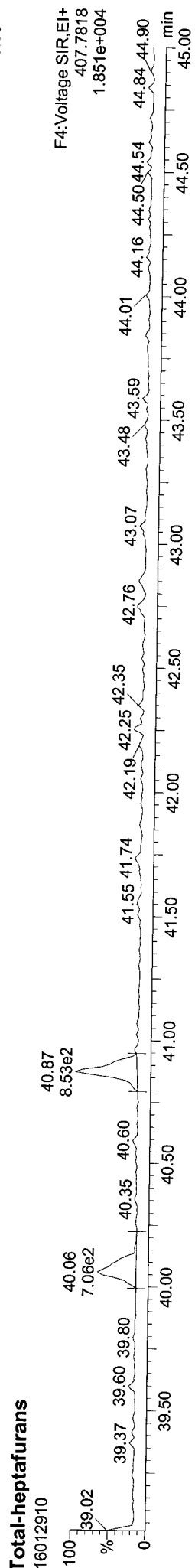
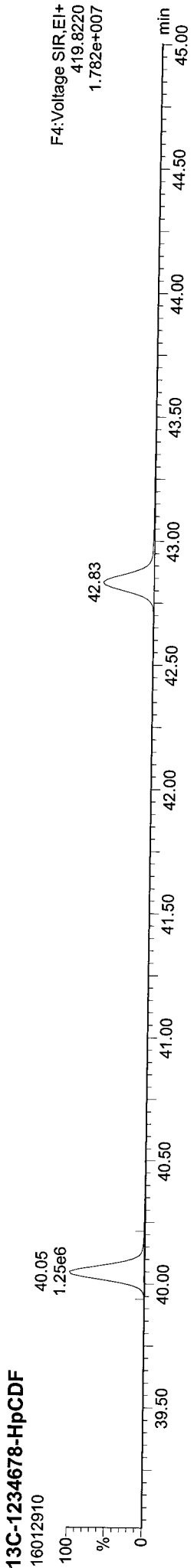
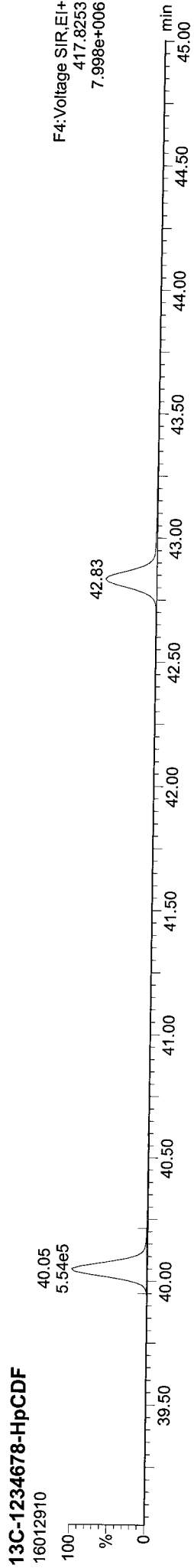


FUNCTION4 PFK



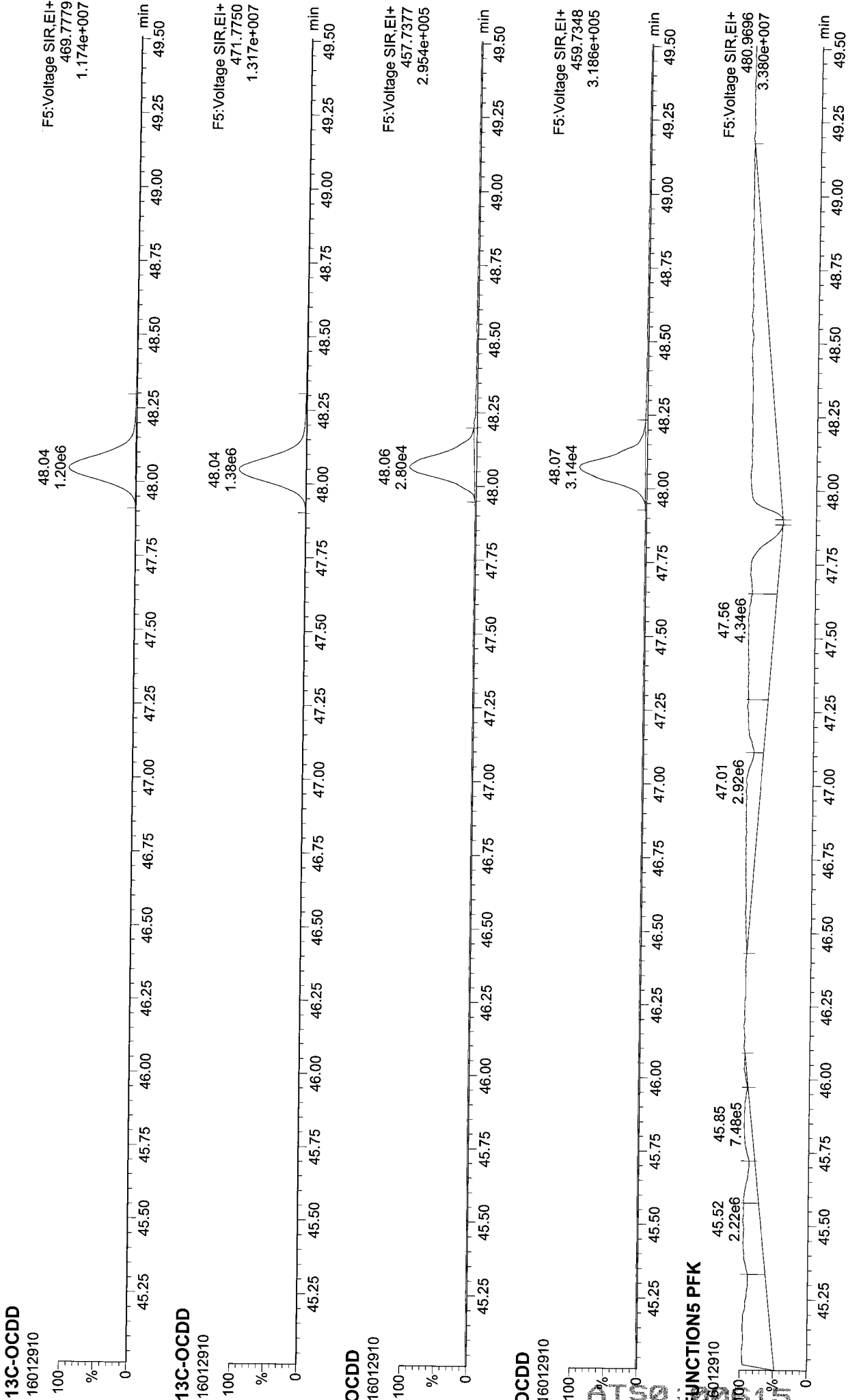


**ID: AT50D, Name: 16012910, Date: 29-Jan-2016, Time: 19:48:42, Conditions: AUTOSPEC01, User: pk**



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





**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

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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



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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

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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  
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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

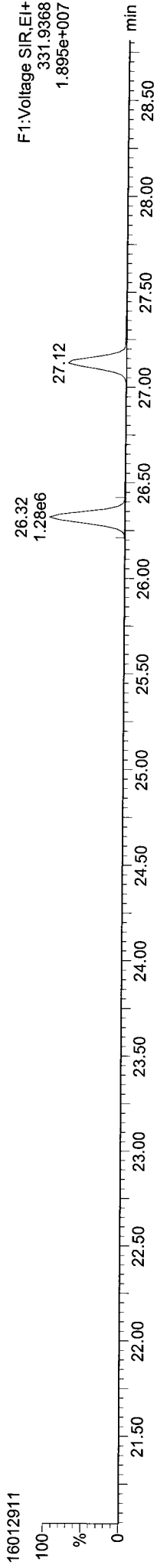
#	Name	Trace	RT	Abs.Resp RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1										

Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

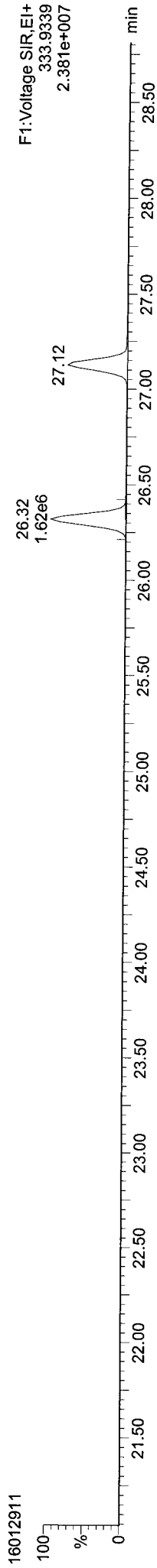
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Calibration: P:\DIOXIN8290.pro\CurveDB\151015ICAL.cdb 16 Oct 2015 08:47:27

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

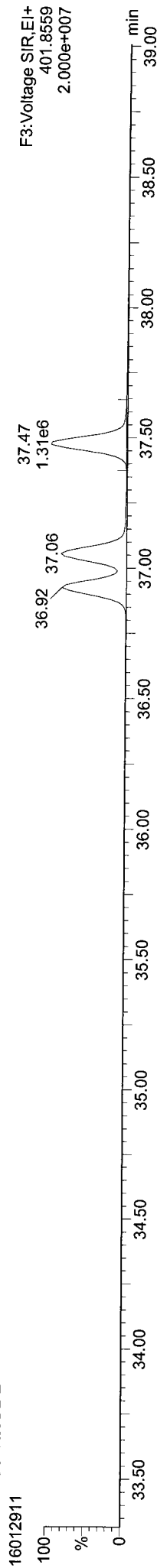
13C-1234-TCDD



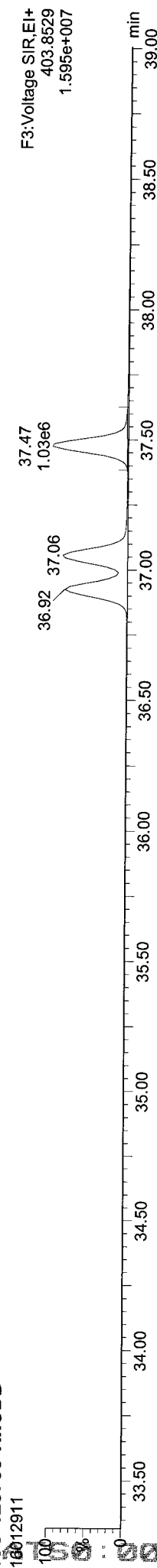
13C-1234-TCDD



13C-123789-HxCDD

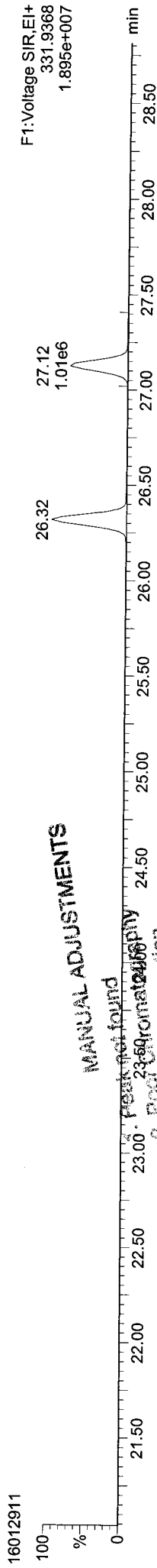


13C-123789-HxCDD



ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

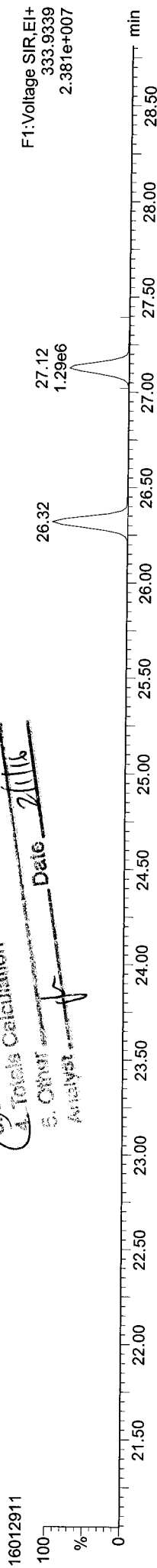
13C-2378-TCDD



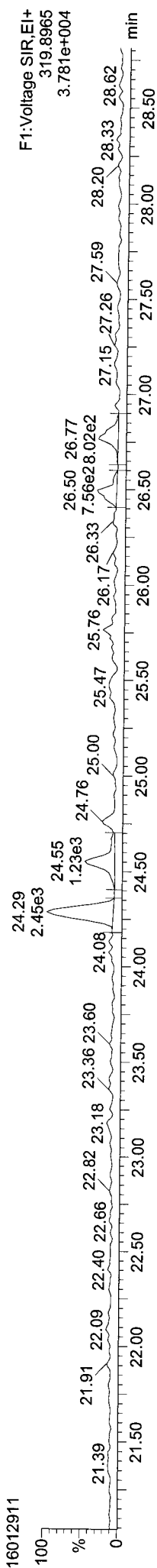
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatogram
3. Baseline Correction
4. Total Calculation
5. Chromatogram Date 2/1/16

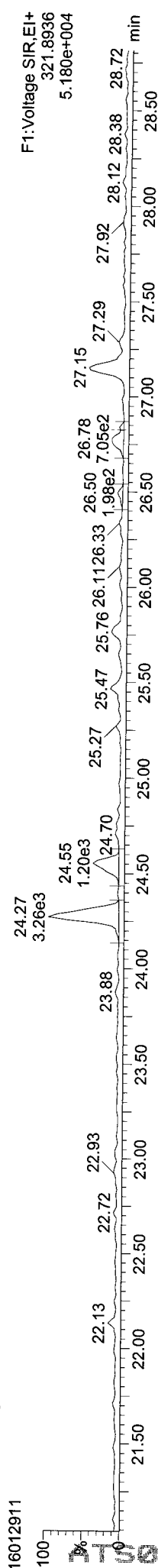
13C-2378-TCDD



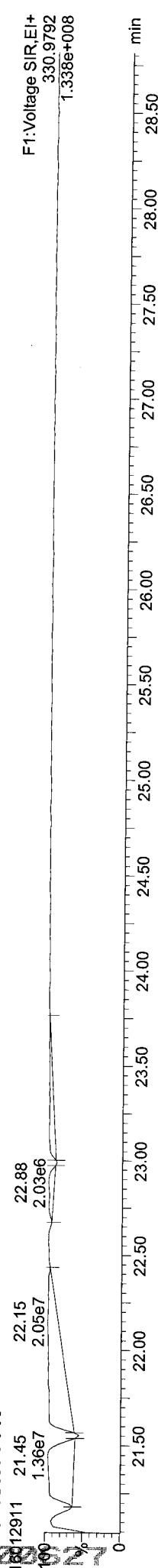
Total-tetradiolins



Total-tetradiolins



FUNCTION1 PFK



Quantify Sample Report MassLynx V4.1 SCN909

Dataset: P:\DIOXIN8290.PROV160129DATA.qld

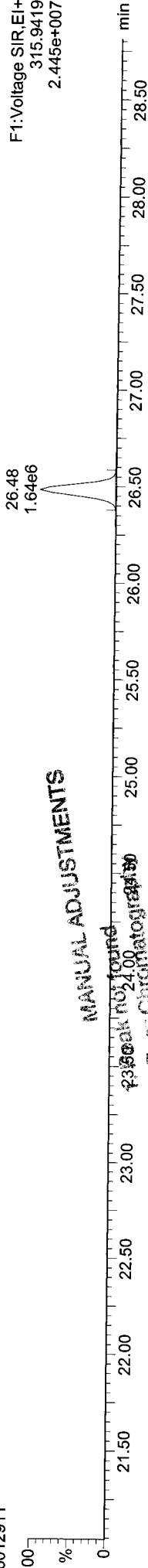
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

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

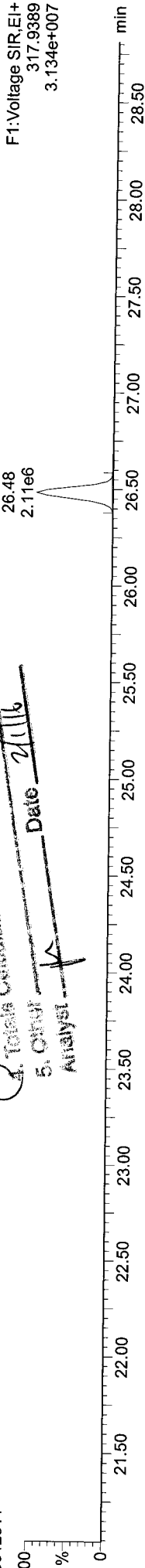
5. OTHER

Analyst

Date 2/1/16

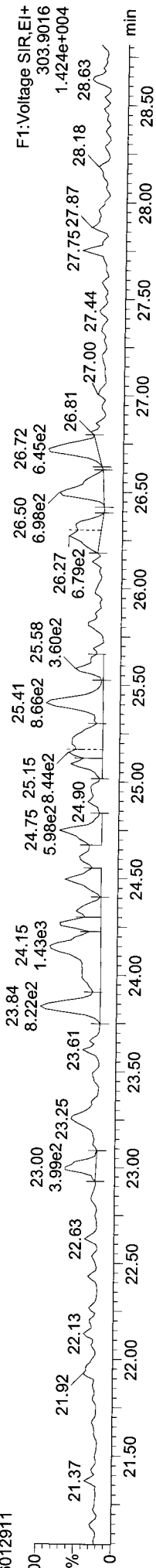
13C-2378-TCDF

16012911



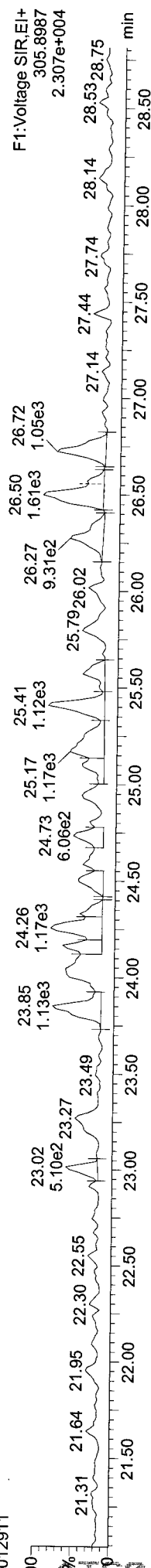
Total-tetrafurans

16012911



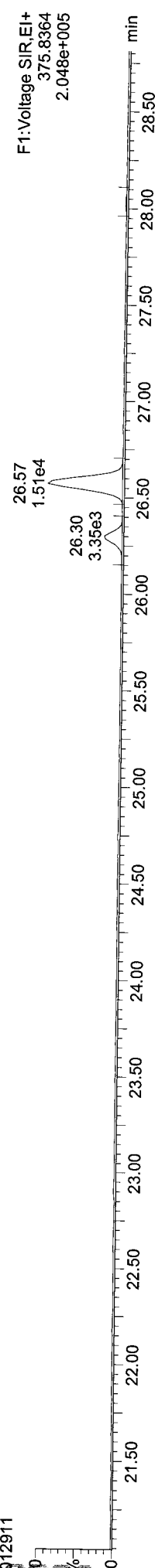
Total-tetrafurans

16012911



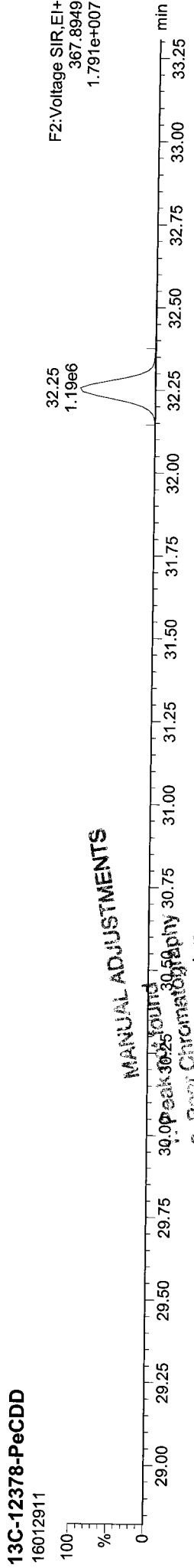
FUNCTION1 HXCDPE

16012911

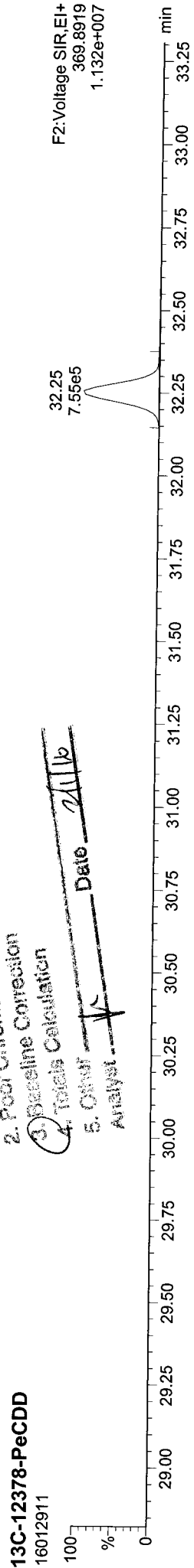


Quantify Sample Report  
MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

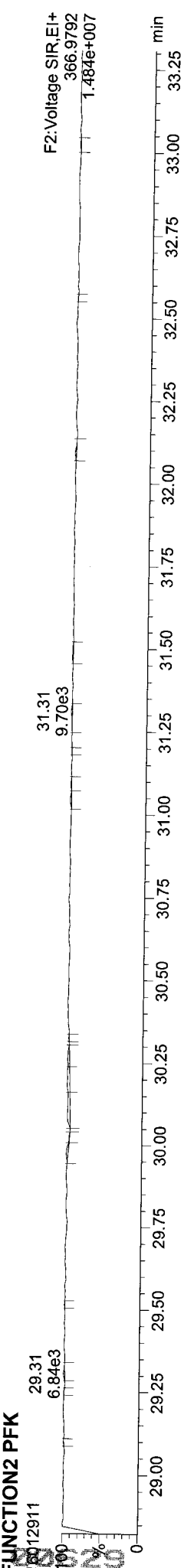
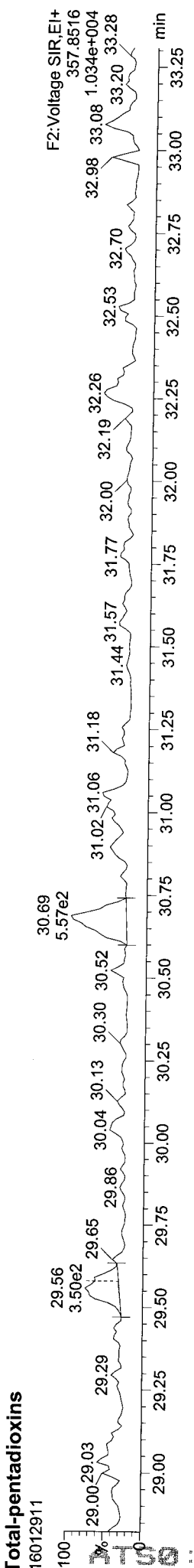
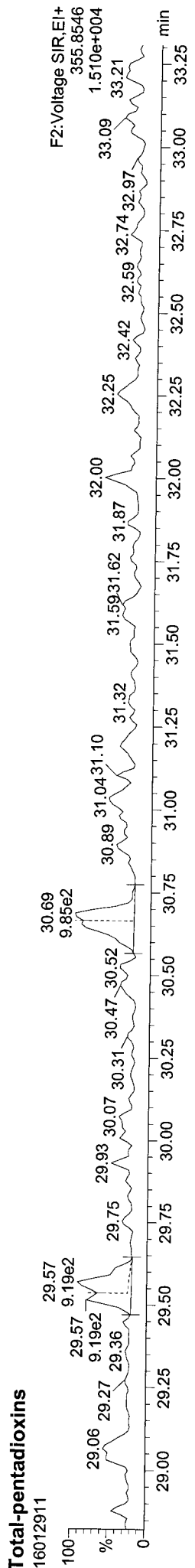
ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk



MANUAL ADJUSTMENTS



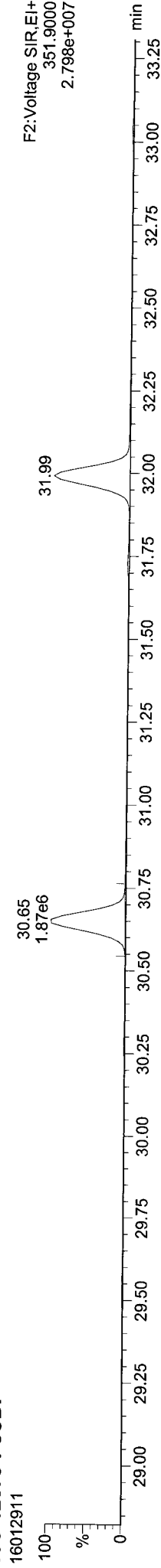
1. Peak 30.25 found
  2. Peak Chromatography
  3. Baseline Correction
  4. Totals Calculation
  5. Other
- Analyst:                      Date: 2/1/16



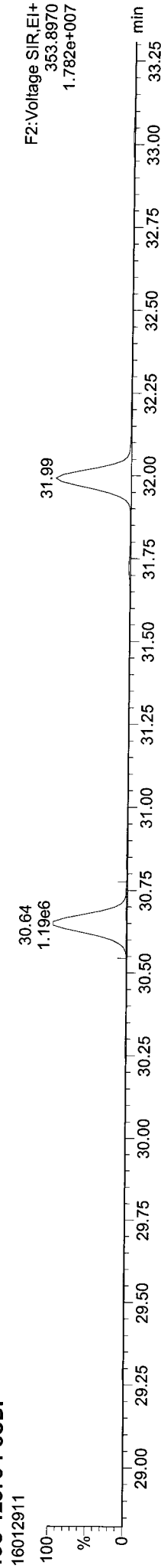


ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

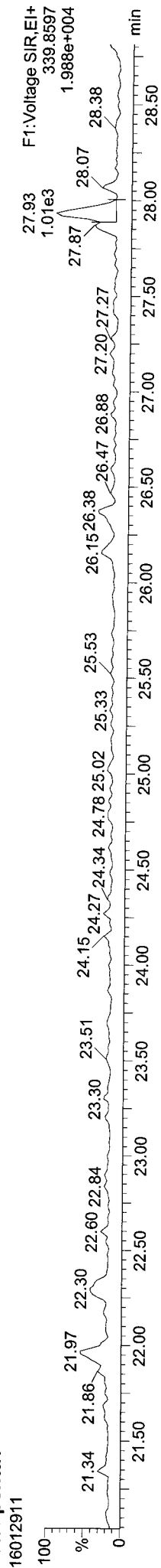
13C-12378-PeCDF



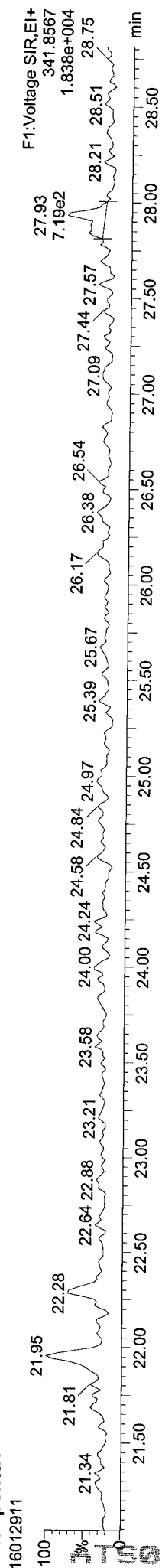
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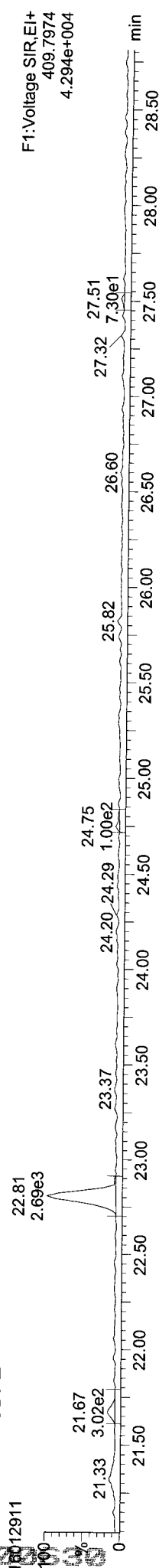
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

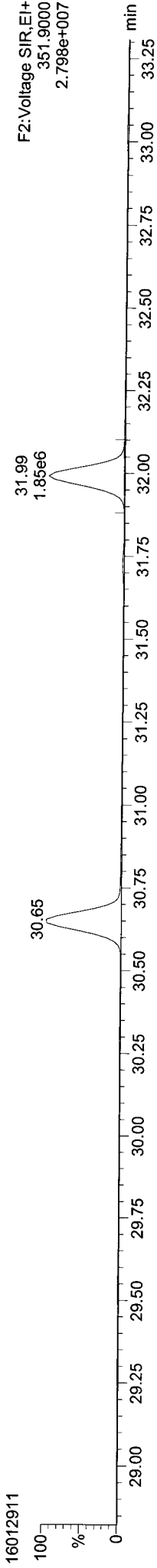


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

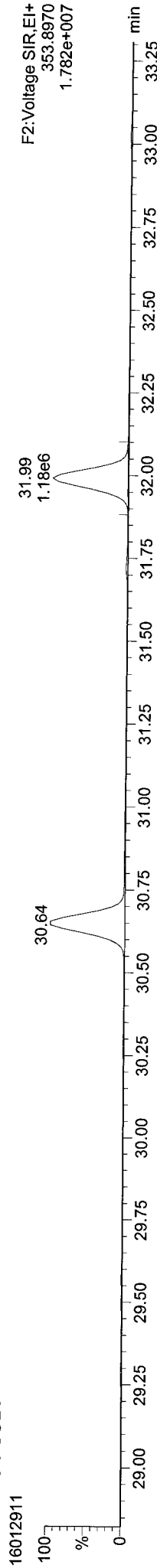
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

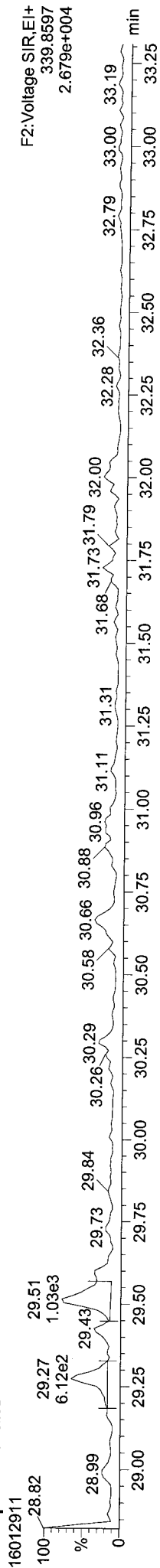
13C-23478-PeCDF



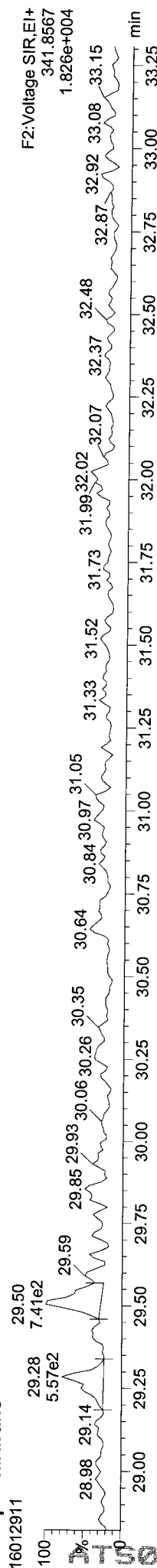
13C-23478-PeCDF



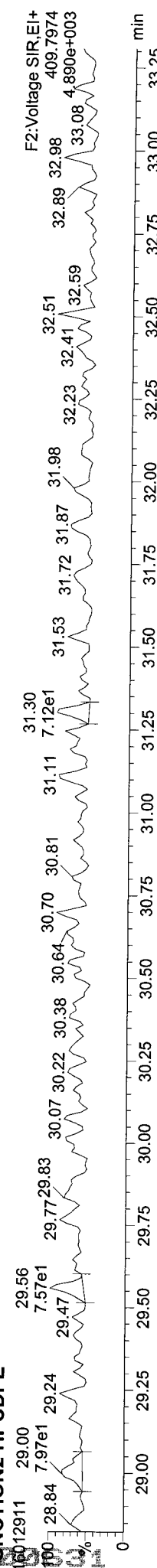
Total-pentafurans



Total-pentafurans

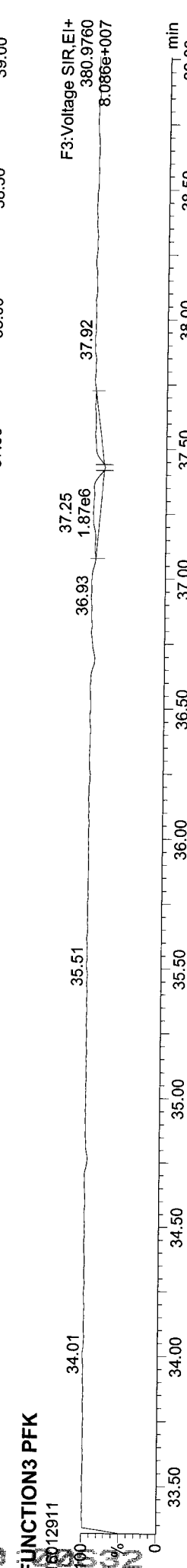
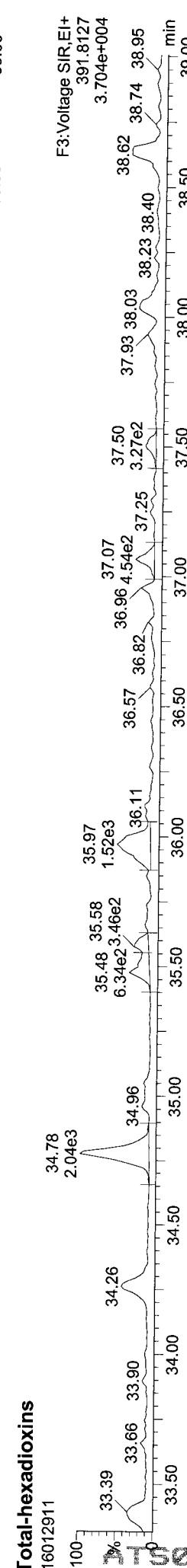
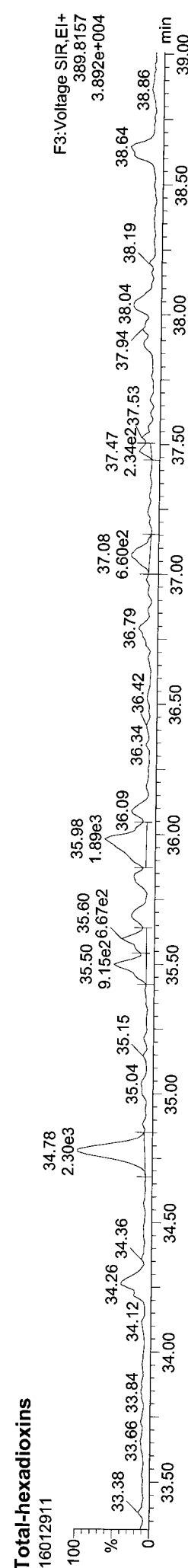
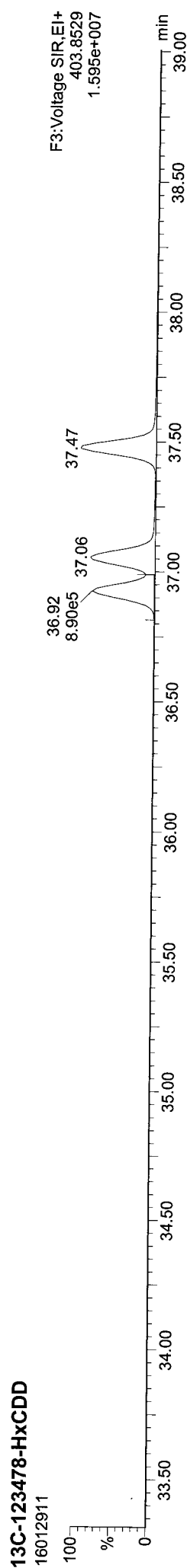
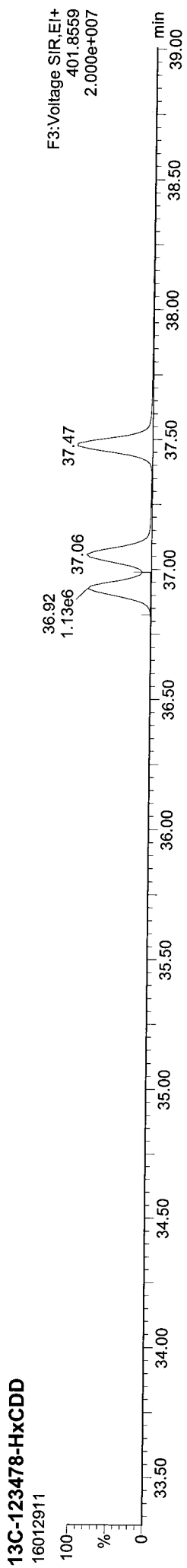


FUNCTION2 HPCDPE



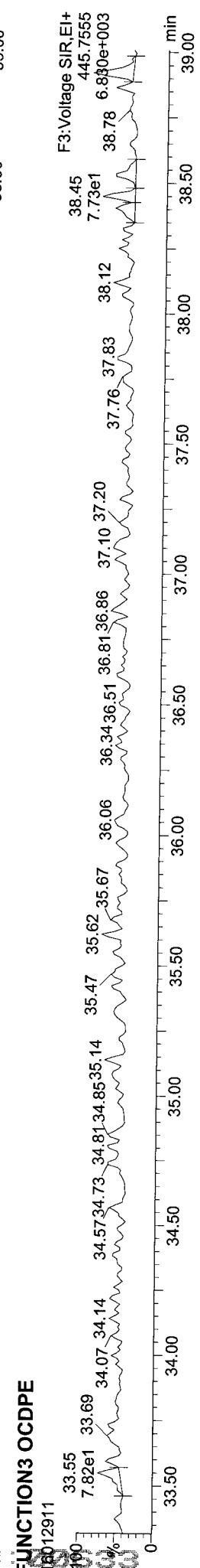
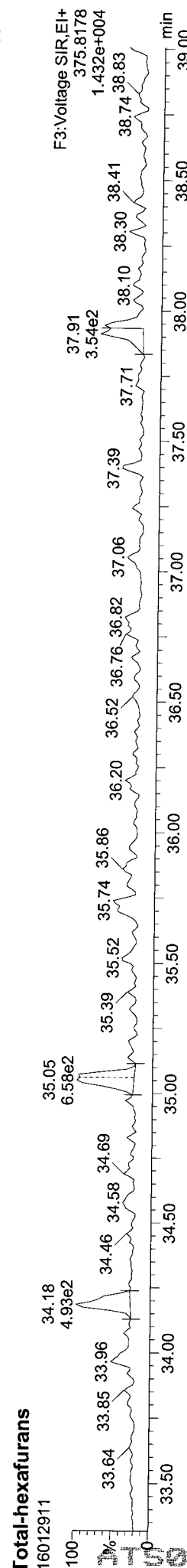
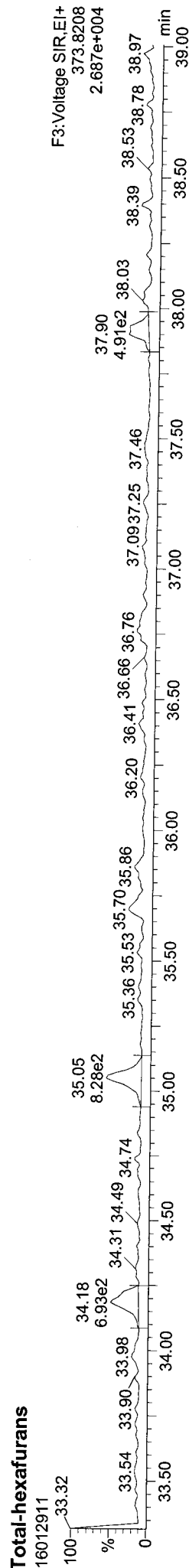
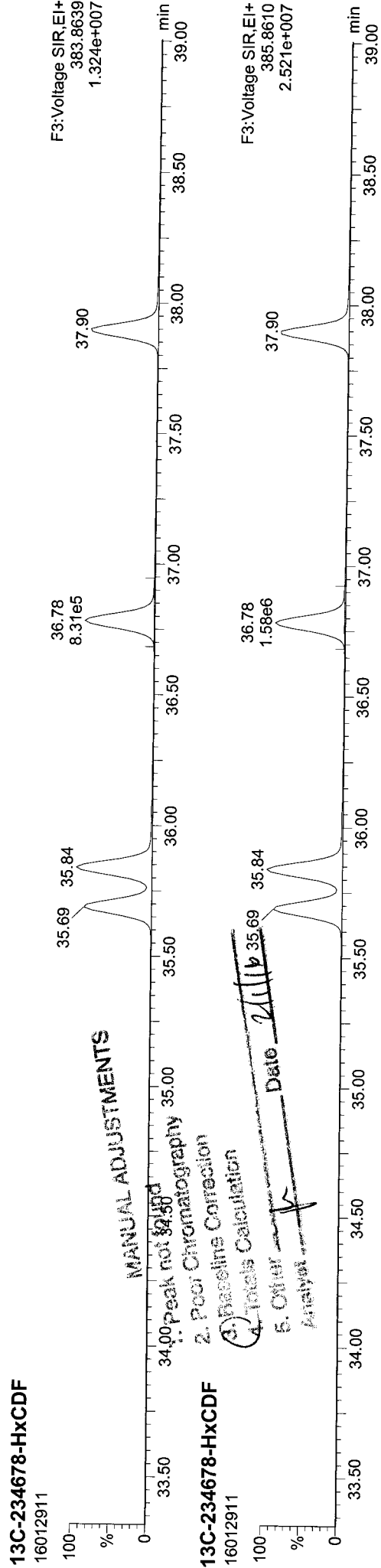
Quantify Sample Report MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk



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

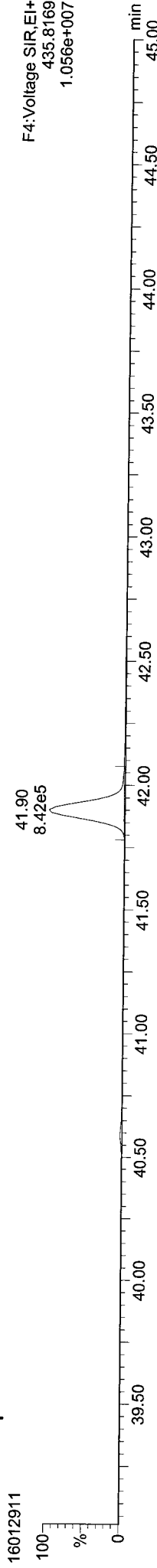
ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk



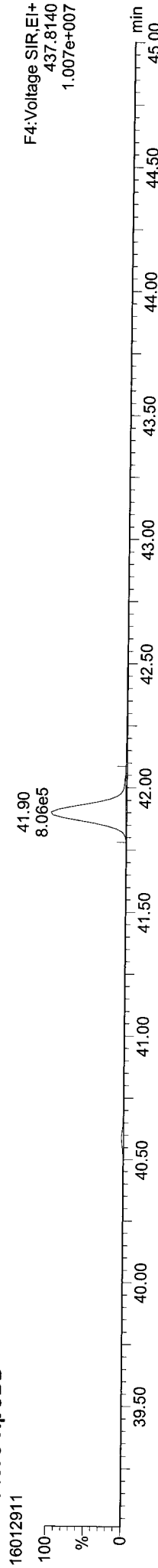
Quantify Sample Report    MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

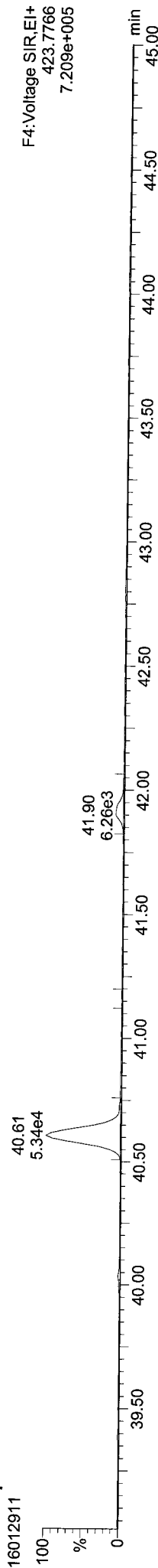
13C-1234678-HpCDD



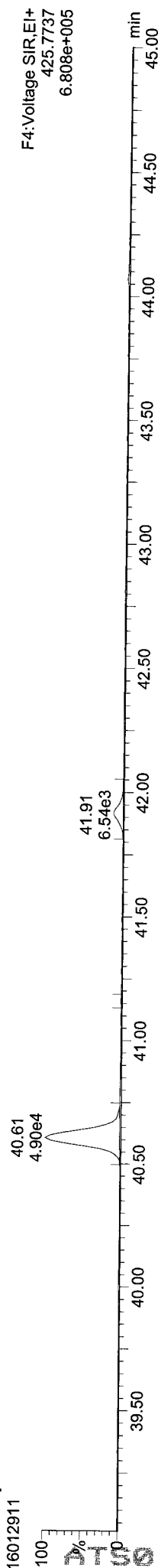
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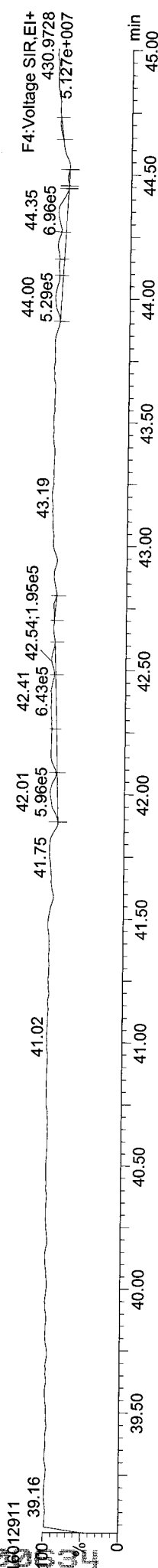
Total-heptadioxins



Total-heptadioxins

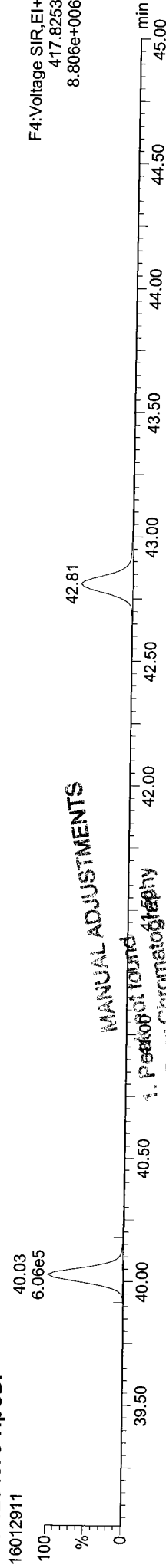


FUNCTION4 PFK



ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

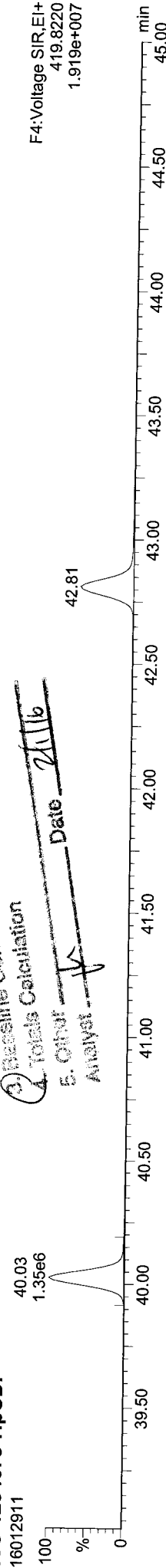
13C-1234678-HpCDF



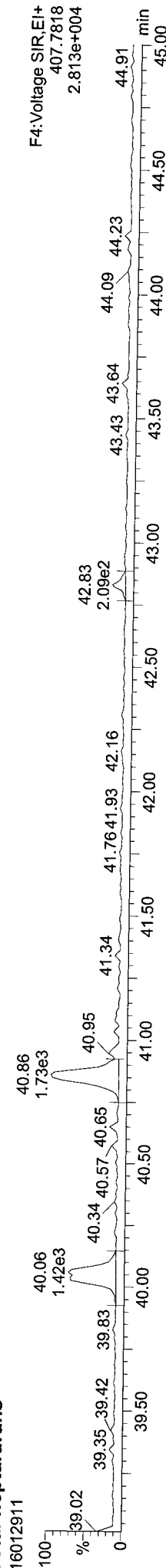
MANUAL ADJUSTMENTS

1. Peakout found
  2. Poor Chromatography
  3. Baseline Correction
  4. Totals Calculation
  5. Other
- Date 2/1/16
- Analyst pk

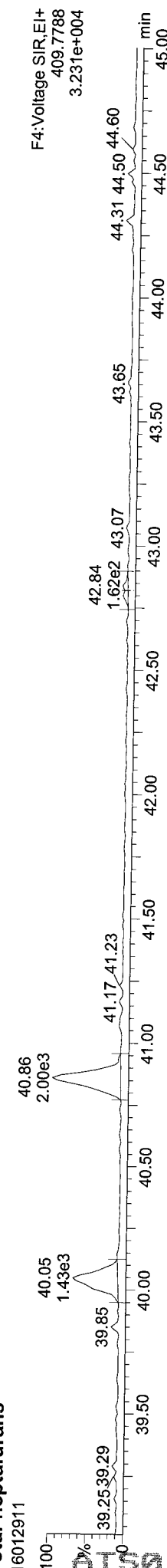
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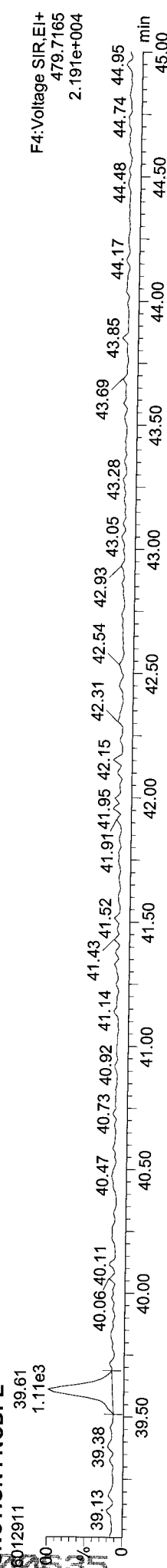
Total-heptafluorans



Total-heptafluorans



FIJUNCTION4 NCDPE



Quantify Sample Report MassLynx V4.1 SCN909

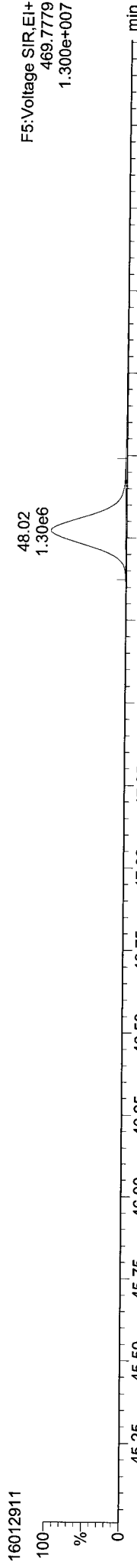
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld

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

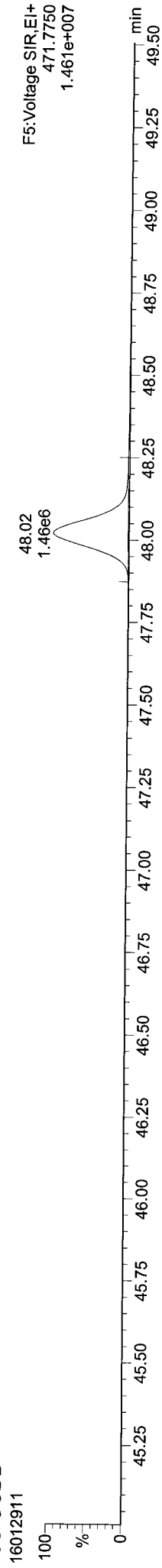
Printed: Monday, February 01, 2016 12:09:19 Pacific Standard Time

ID: AT50E, Name: 16012911, Date: 29-Jan-2016, Time: 20:42:23, Conditions: AUTOSPEC01, User: pk

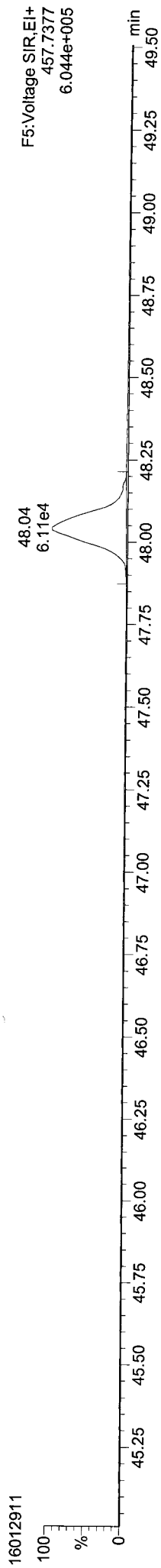
13C-OCDD



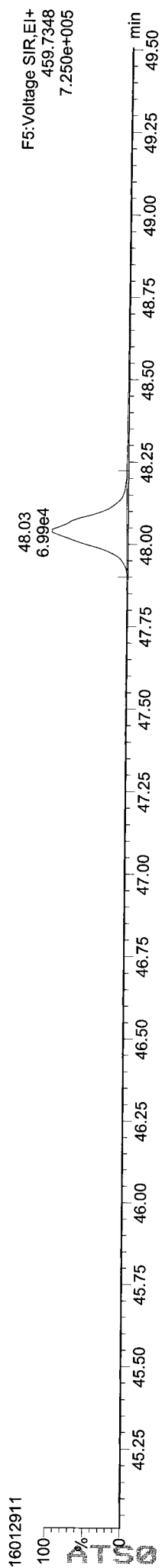
13C-OCDD



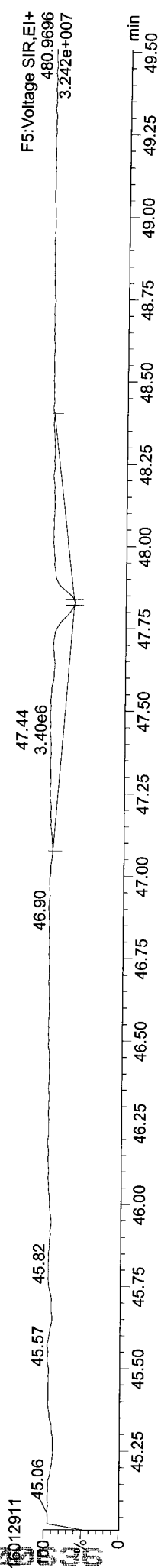
OCDD



OCDD



FUNCTION5 PFK



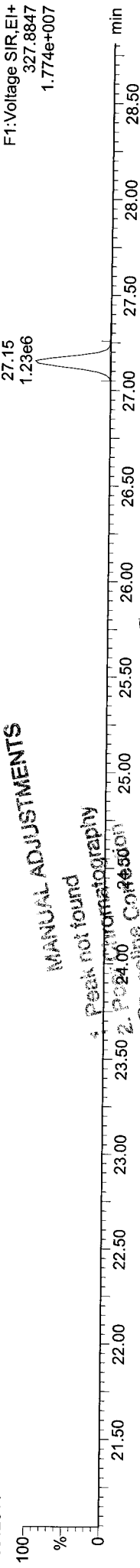
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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

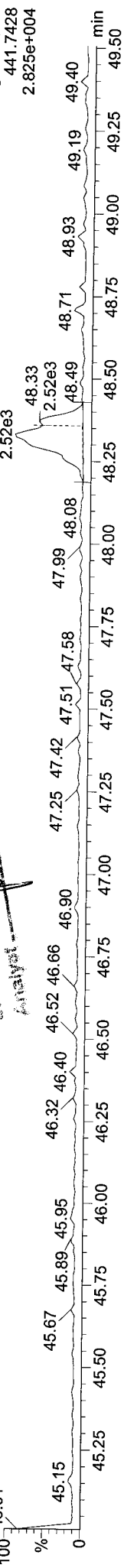
16012911



OCDF

16012911

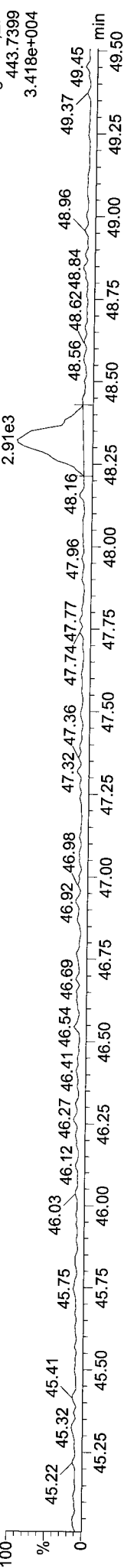
100 45.01



OCDF

16012911

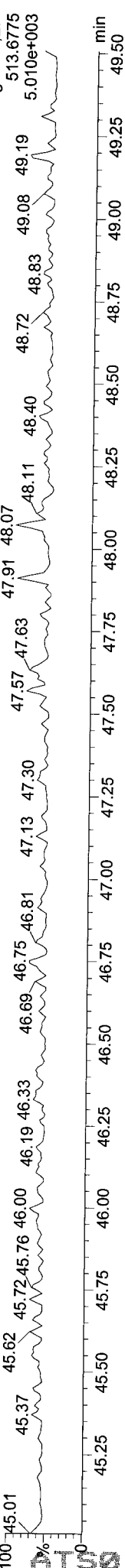
100 45.01



FUNCTION5 DCDPE

16012911

100 45.01



AT 00 : 00037



**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\151015\CAL.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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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

**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**

**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

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

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**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



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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

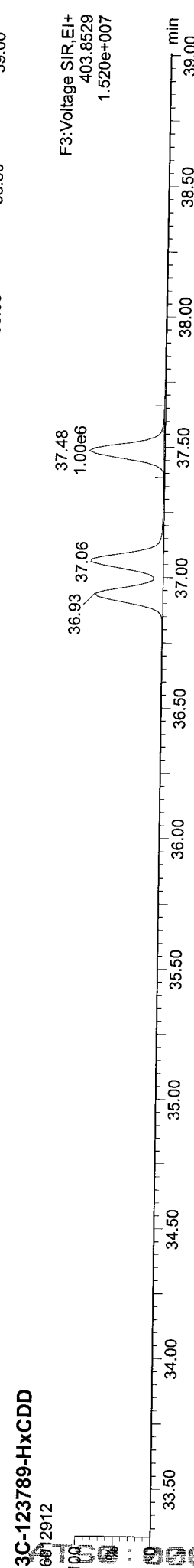
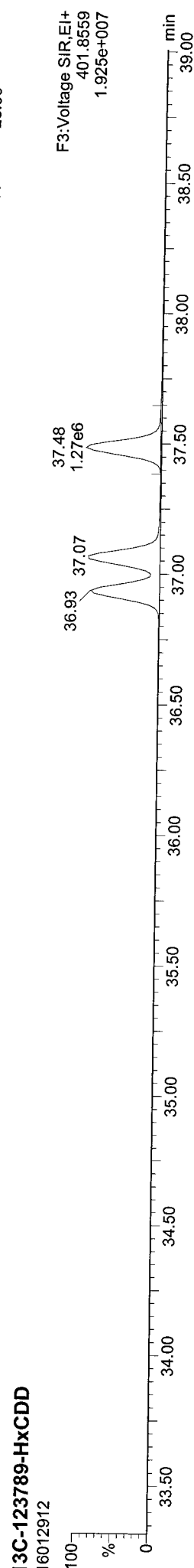
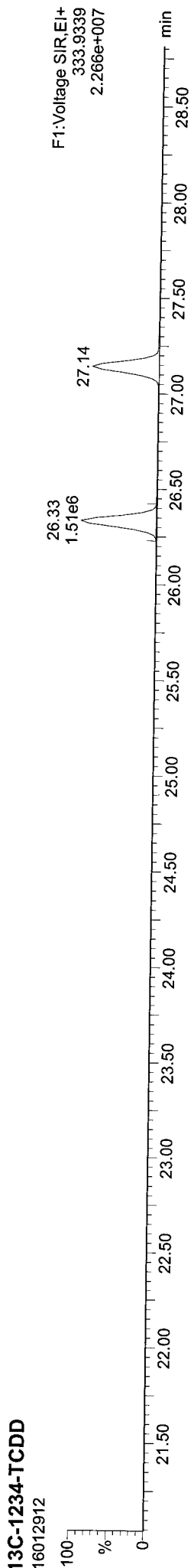
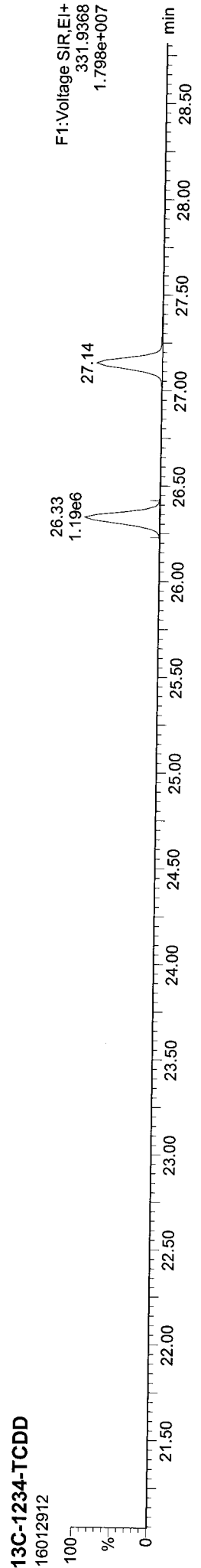
ETHERS6

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

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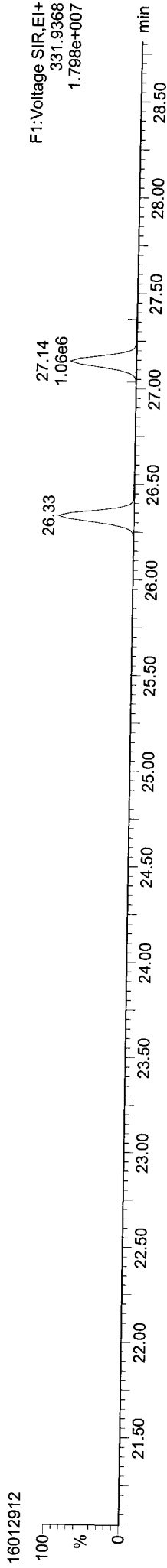
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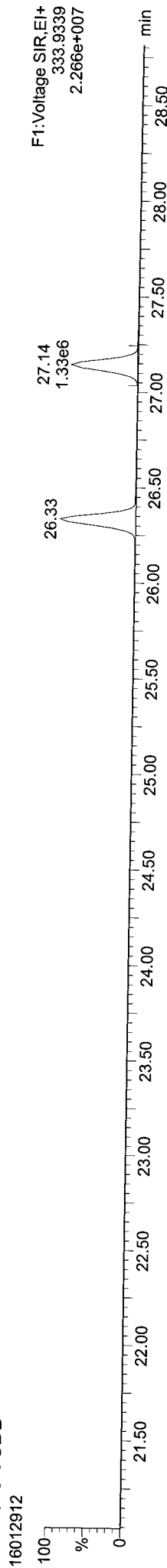


**ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk**

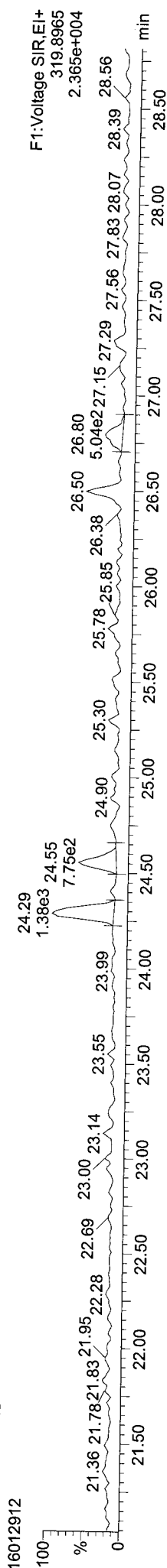
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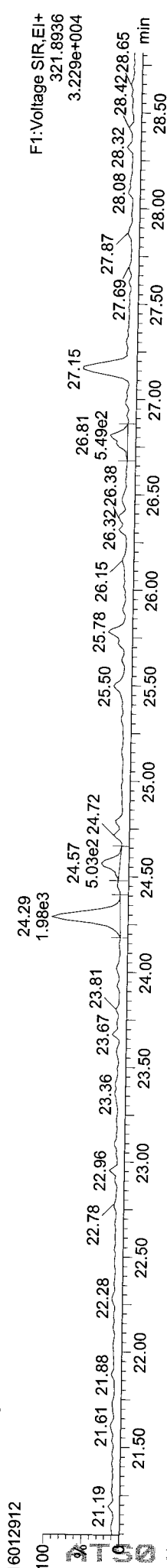
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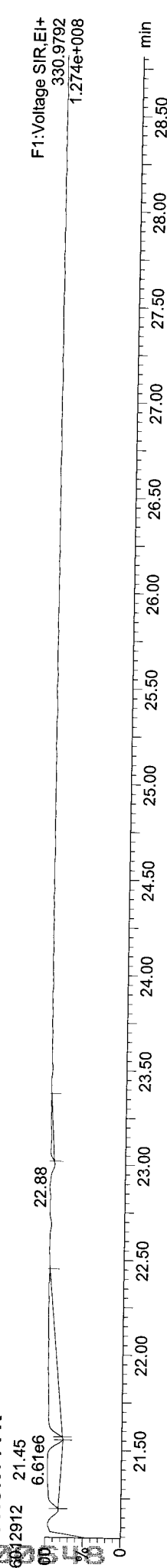
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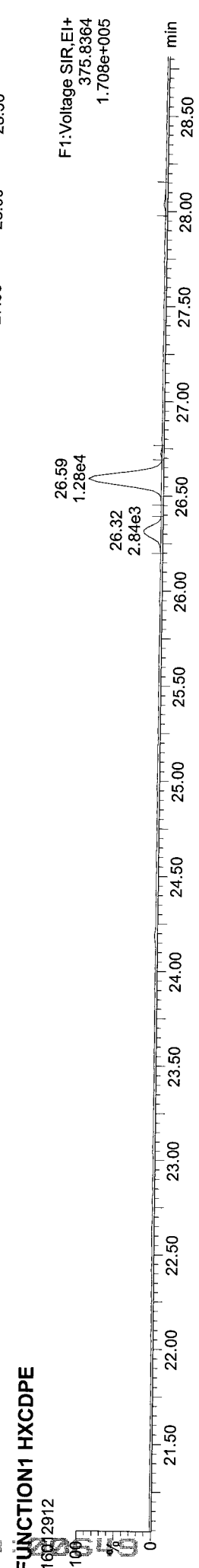
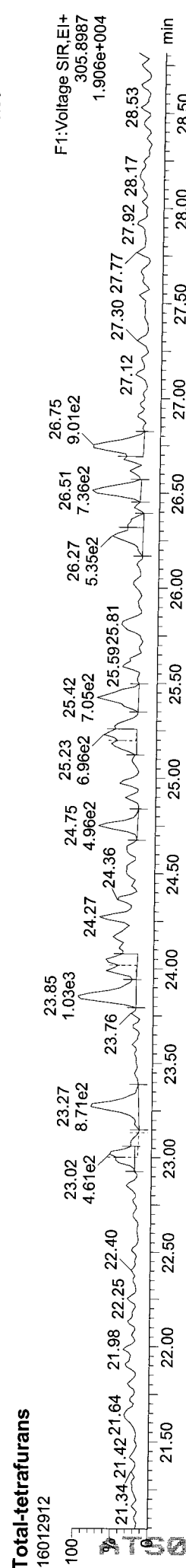
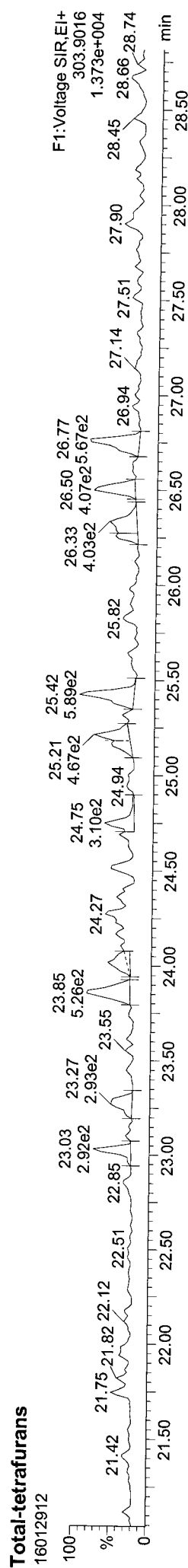
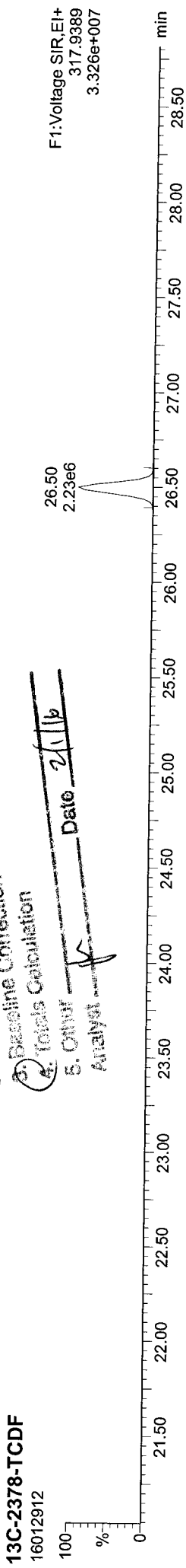
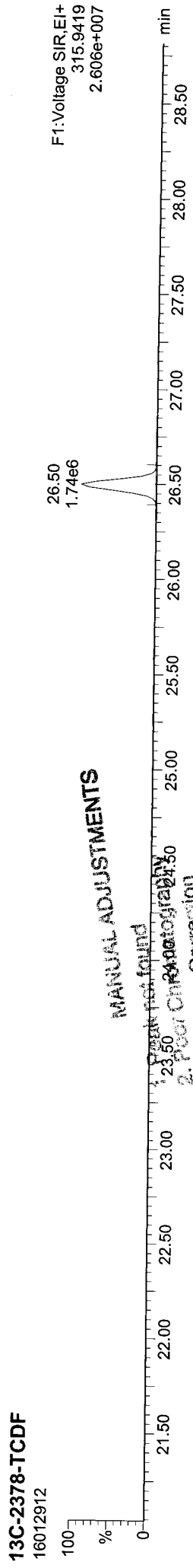
**Total-tetradioxins**



**FUNCTION1 PFK**



ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

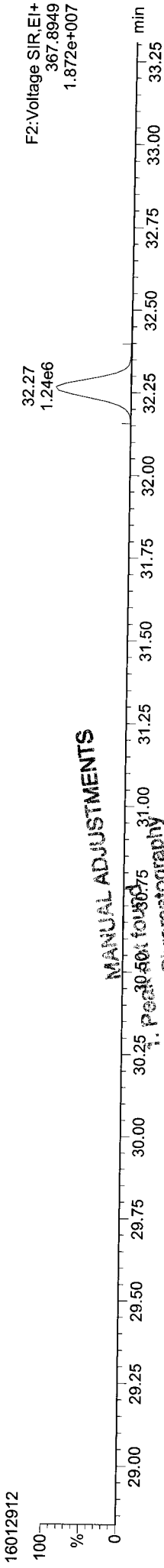


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

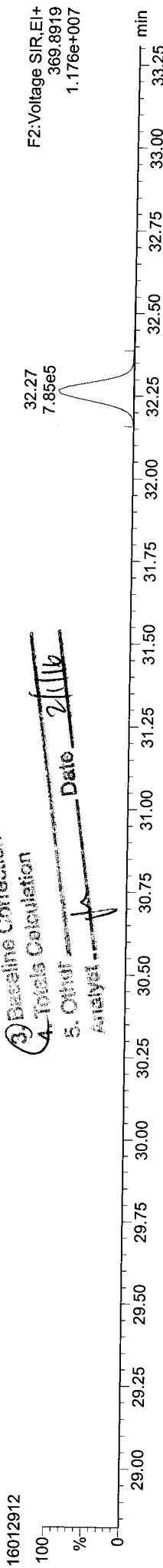
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

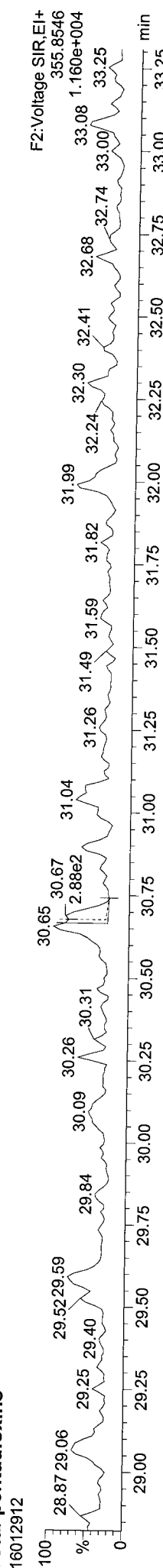
13C-12378-PeCDD



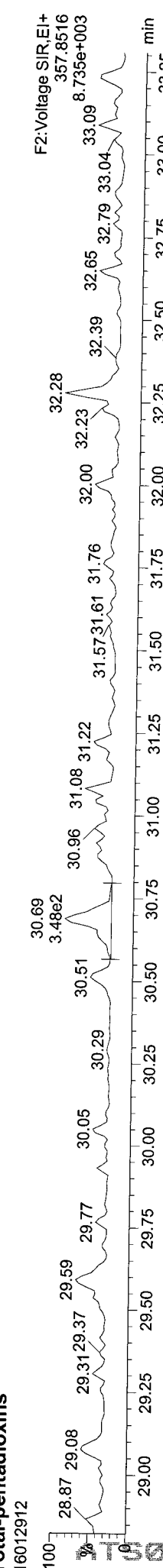
13C-12378-PeCDD



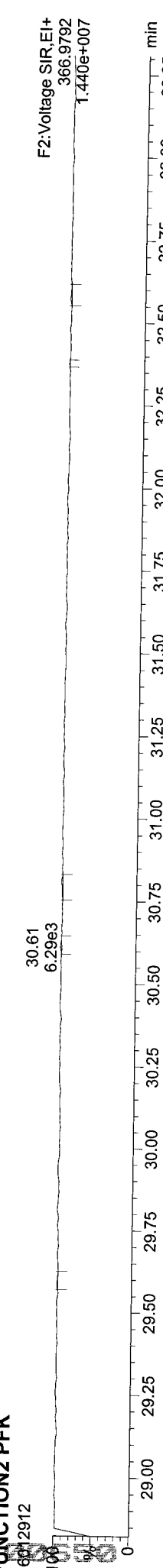
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

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

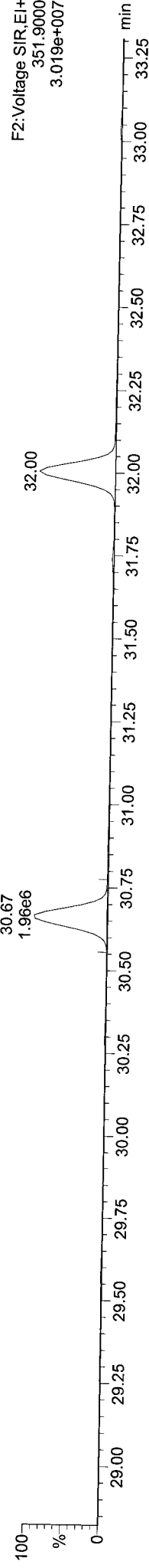
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

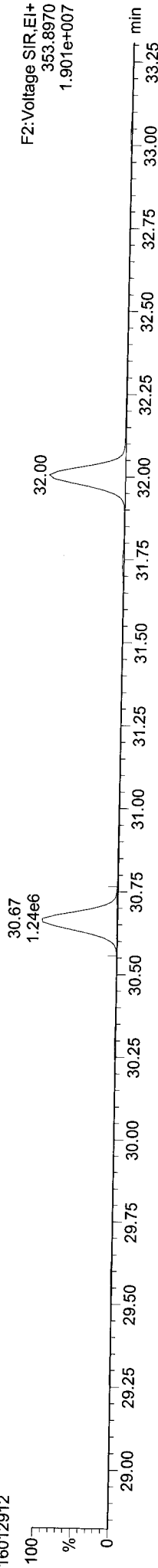
13C-12378-PeCDF

16012912



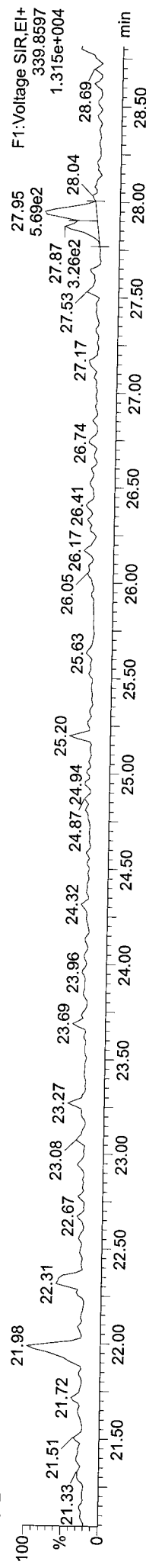
13C-12378-PeCDF

16012912



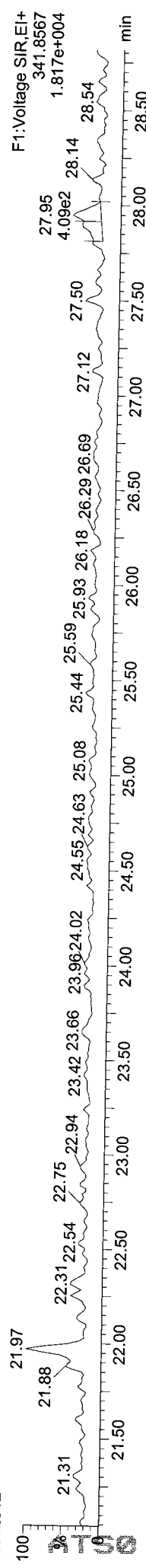
Total-penta1

16012912



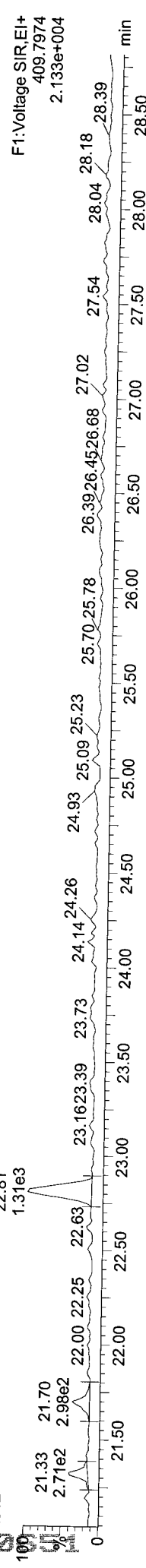
Total-penta1

16012912

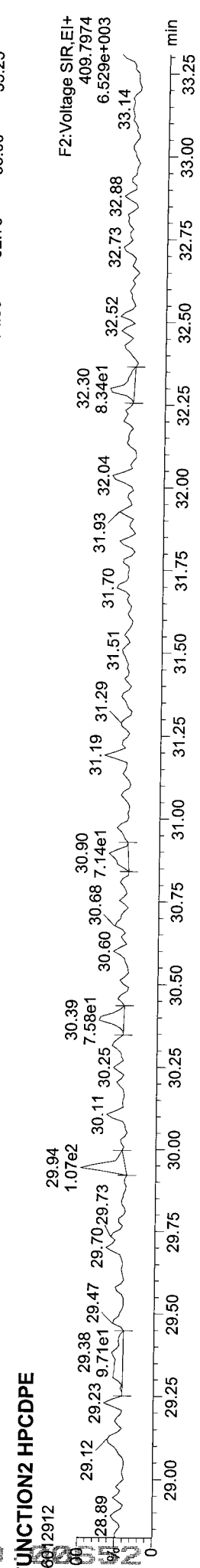
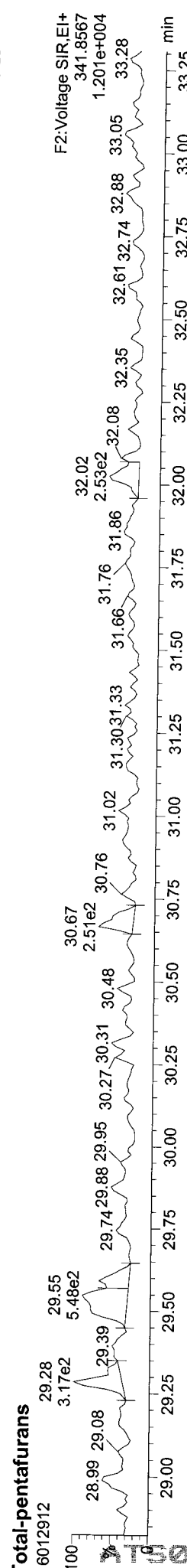
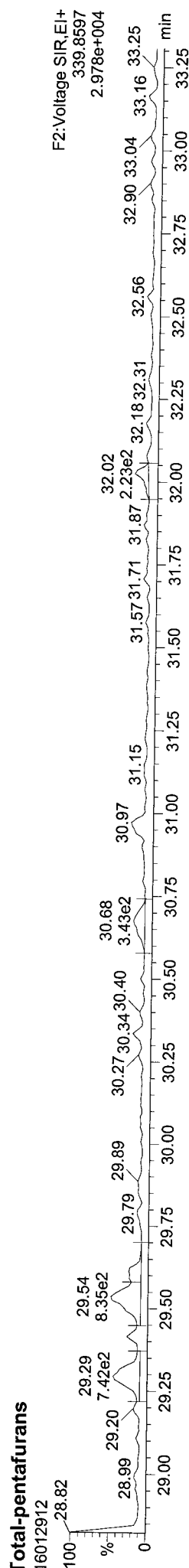
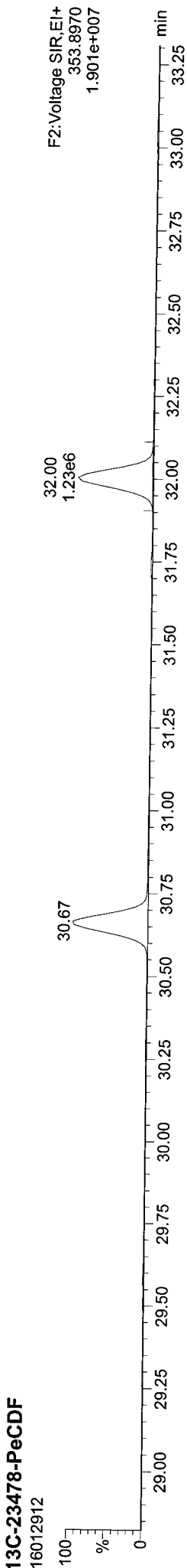
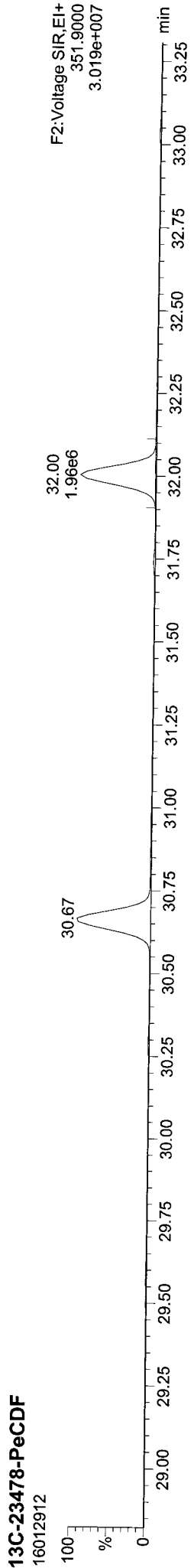


FUNCTION1 HPCDFE

16012912

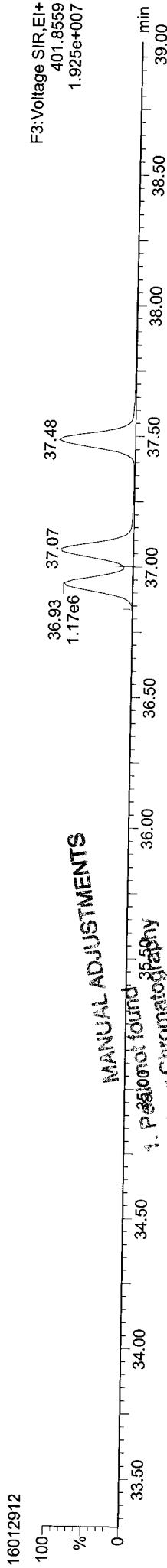


**ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk**

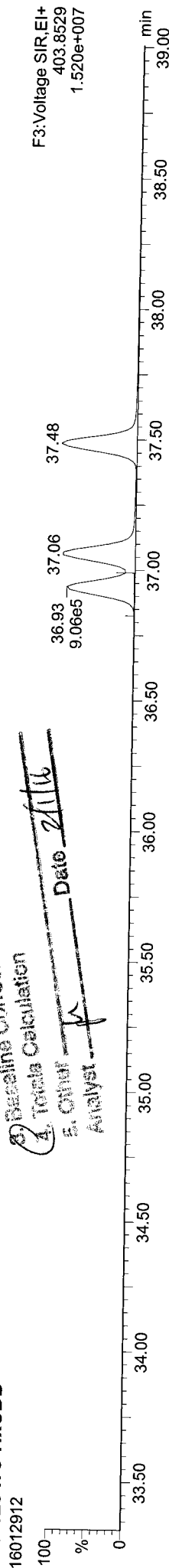


ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

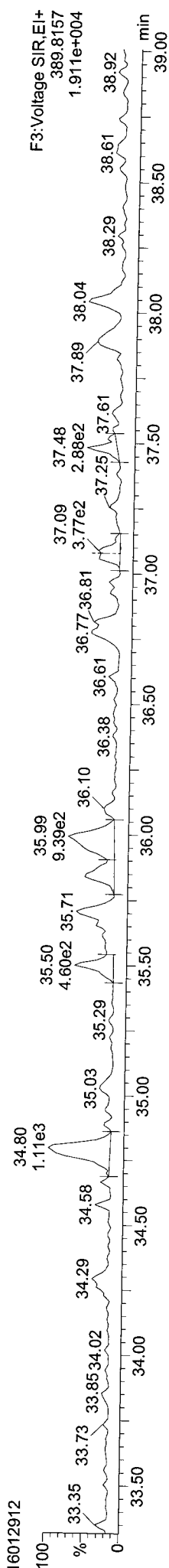
13C-123478-HxCDD



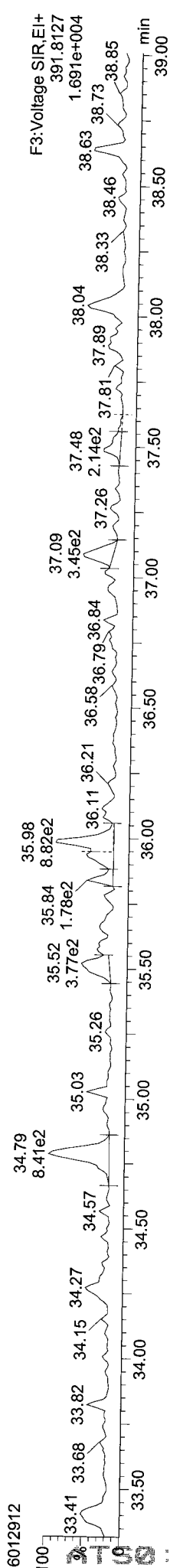
13C-123478-HxCDD



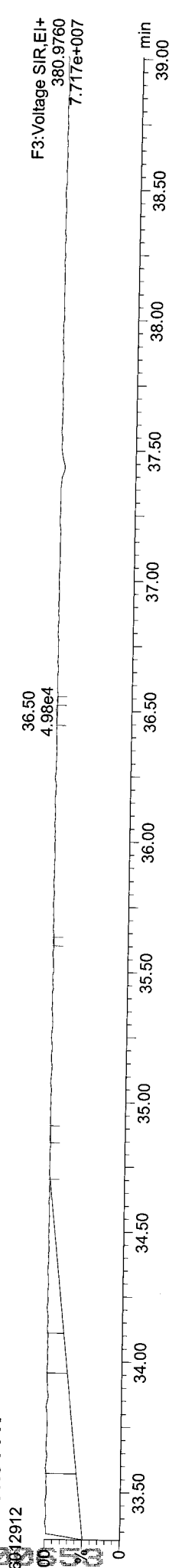
Total-hexadioxins



Total-hexadioxins



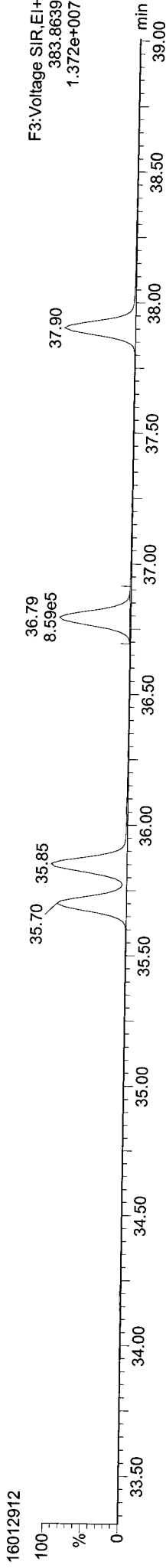
FUNCTION3 PFK



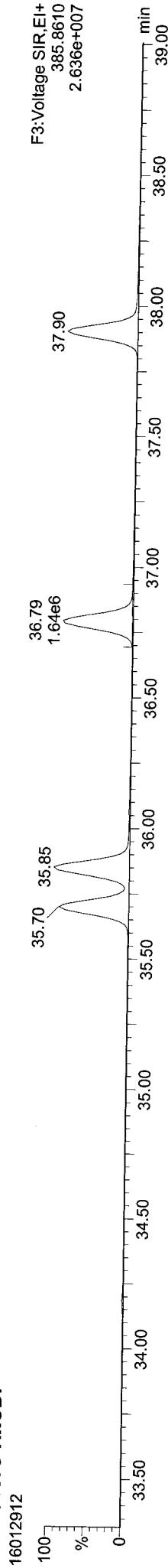


**ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk**

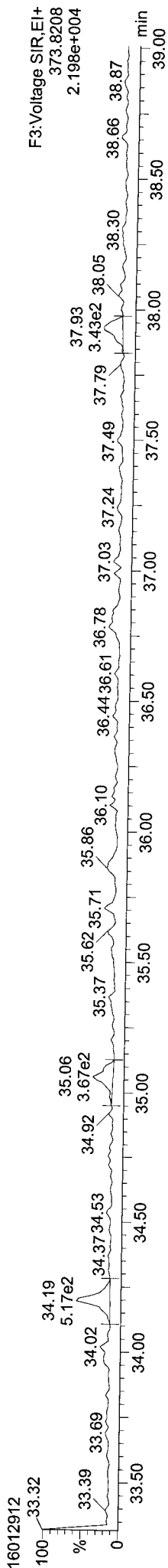
**13C-234678-HxCDF**



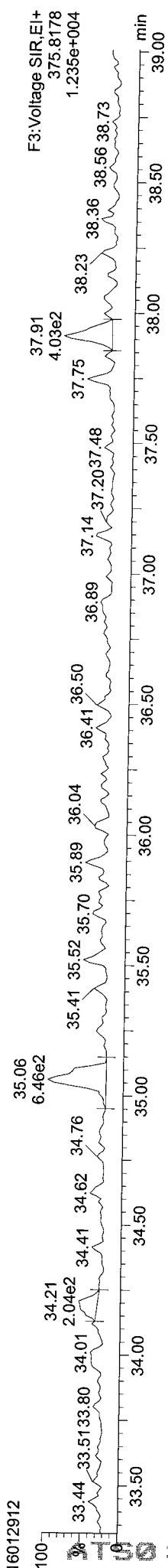
**13C-234678-HxCDF**



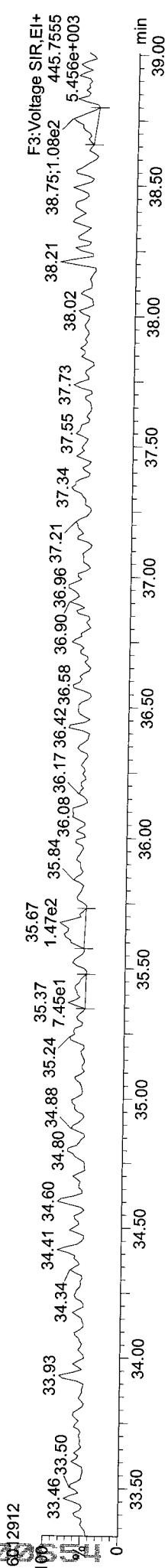
**Total-hexafurans**



**Total-hexafurans**



**FUNCTION3 OCDFE**

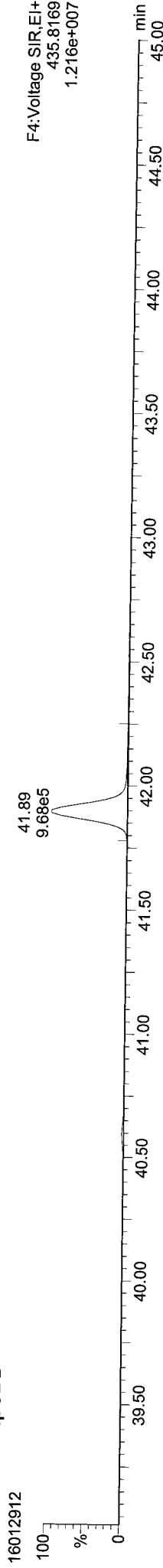


Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

MassLynx MassLynx V4.1 SCN909

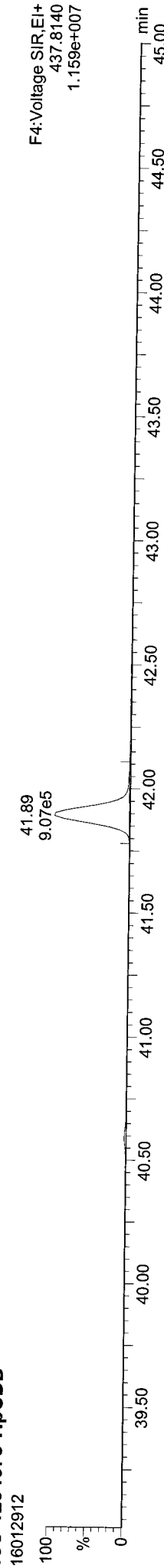
ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



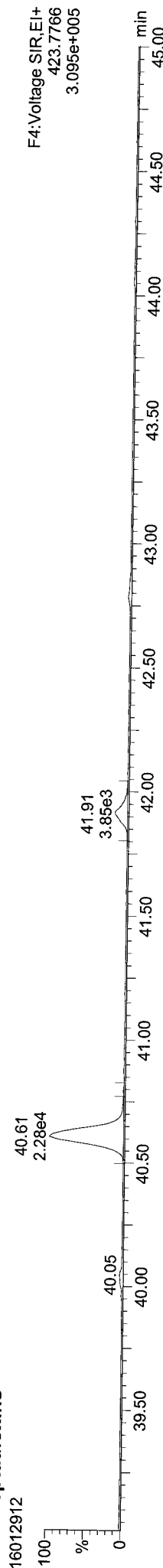
F4: Voltage SIR, EI+  
435.8169  
1.216e+007

13C-1234678-HpCDD



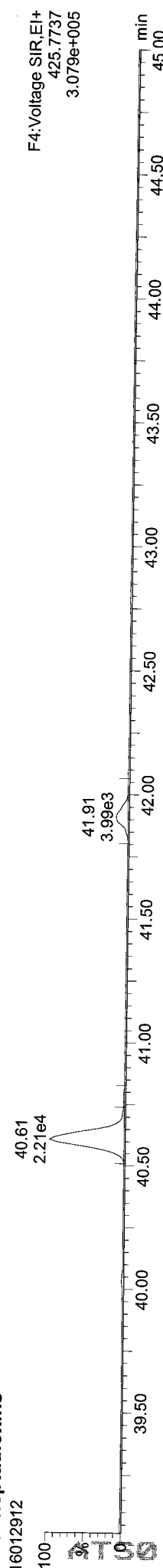
F4: Voltage SIR, EI+  
437.8140  
1.159e+007

Total-heptadioxins



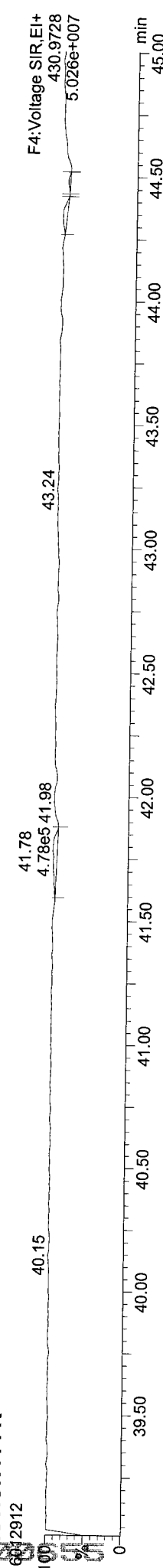
F4: Voltage SIR, EI+  
423.7766  
3.095e+005

Total-heptadioxins



F4: Voltage SIR, EI+  
425.7737  
3.079e+005

FUNCTION4 PFK



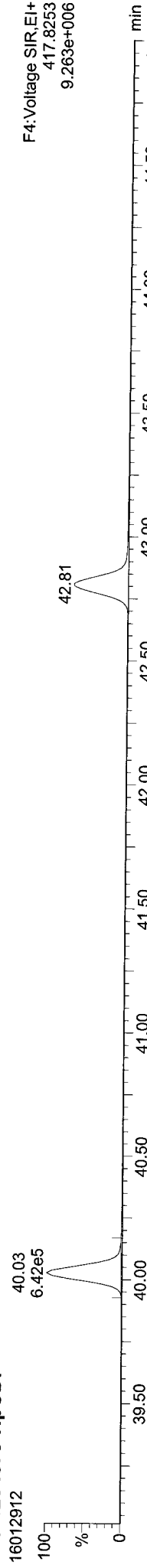
F4: Voltage SIR, EI+  
430.9728  
5.026e+007

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

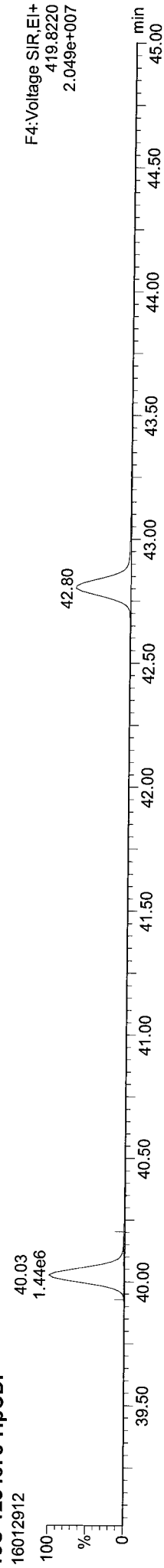
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

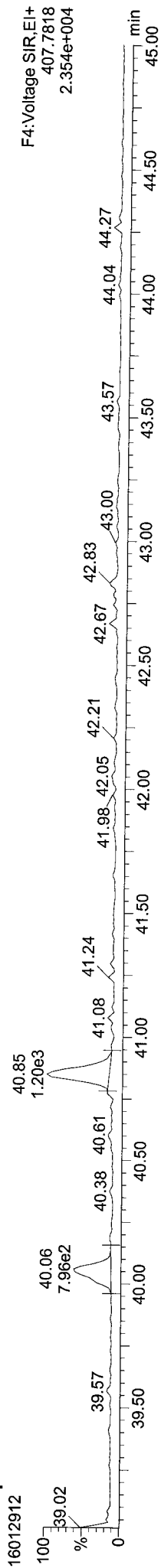
13C-1234678-HpCDF



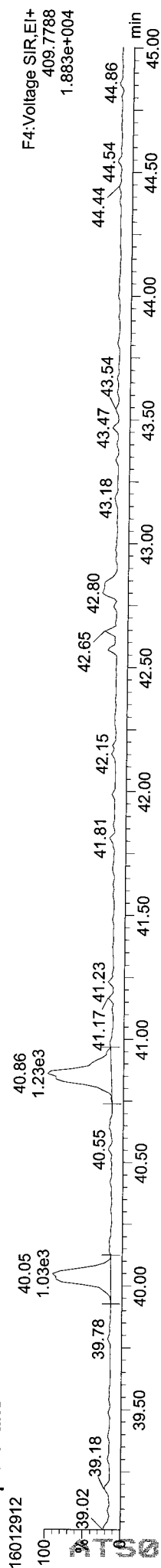
13C-1234678-HpCDF



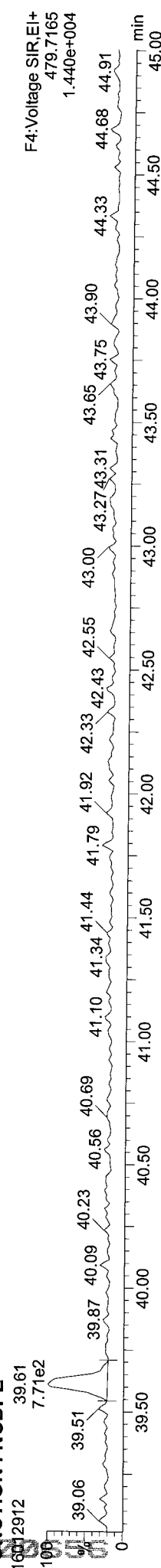
Total-heptafulurans



Total-heptafulurans



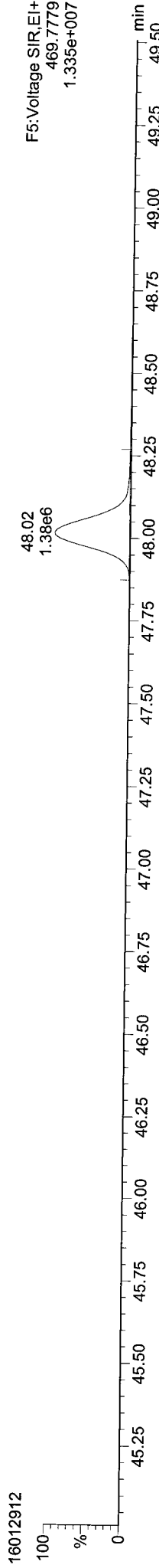
FUNCTION4 NCDPE



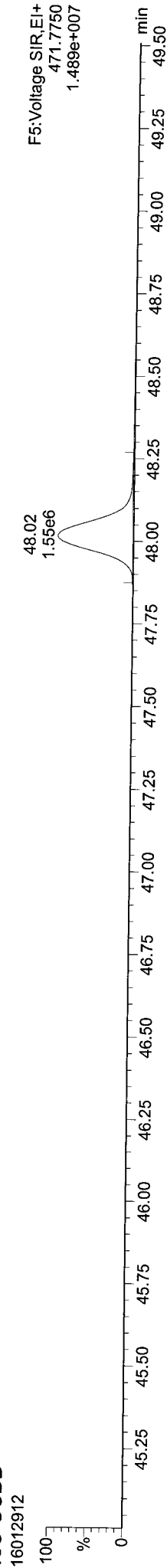
Quantify Sample Report  
MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:09:22 Pacific Standard Time

ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk

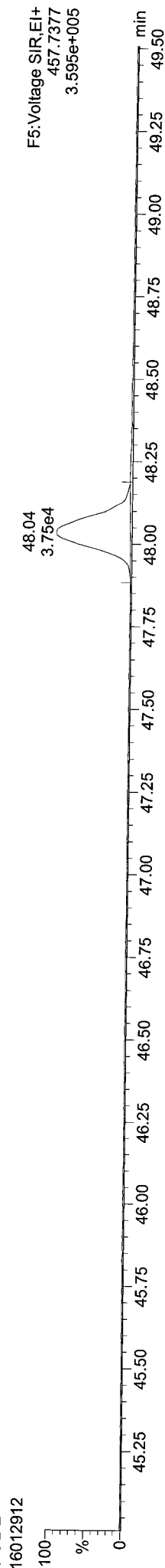
13C-OCDD



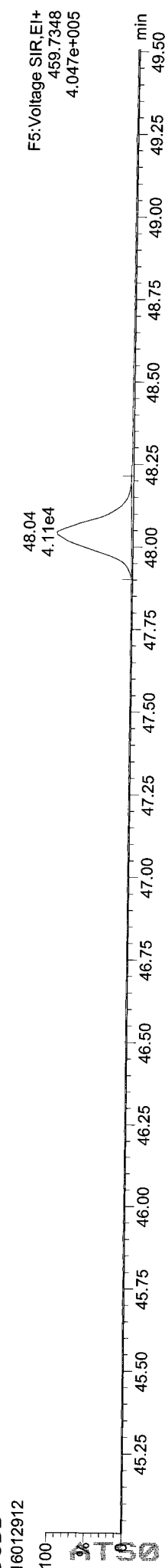
13C-OCDD



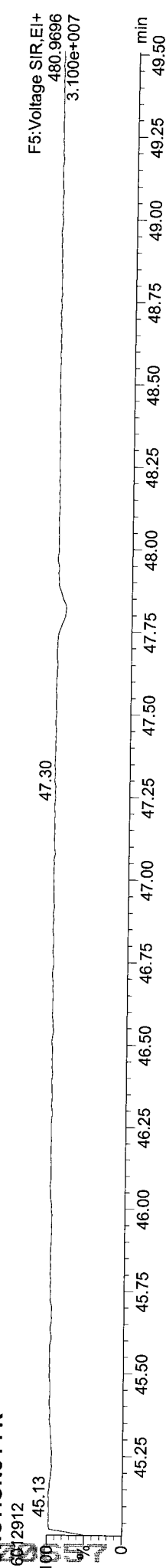
OCDD



OCDD

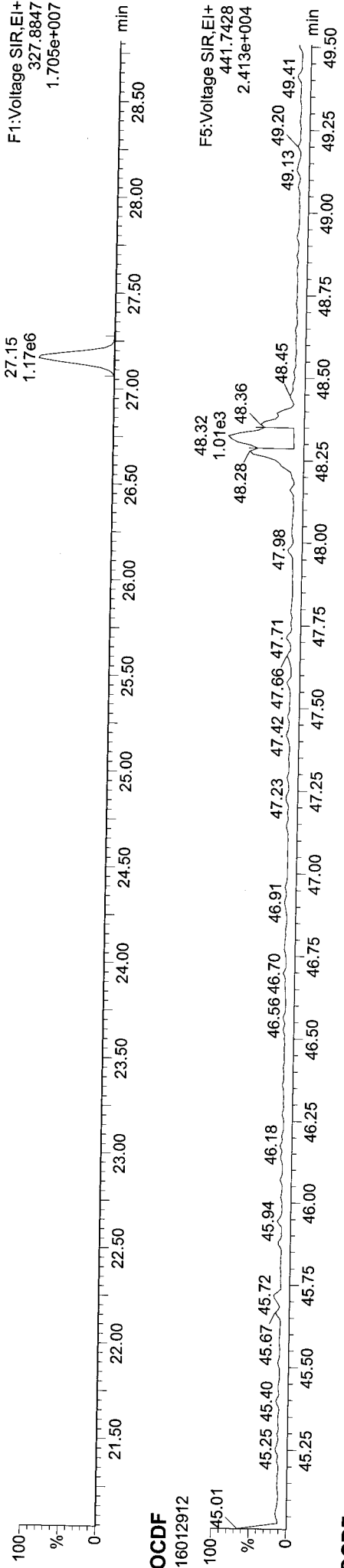


FUNCTION5 PFK

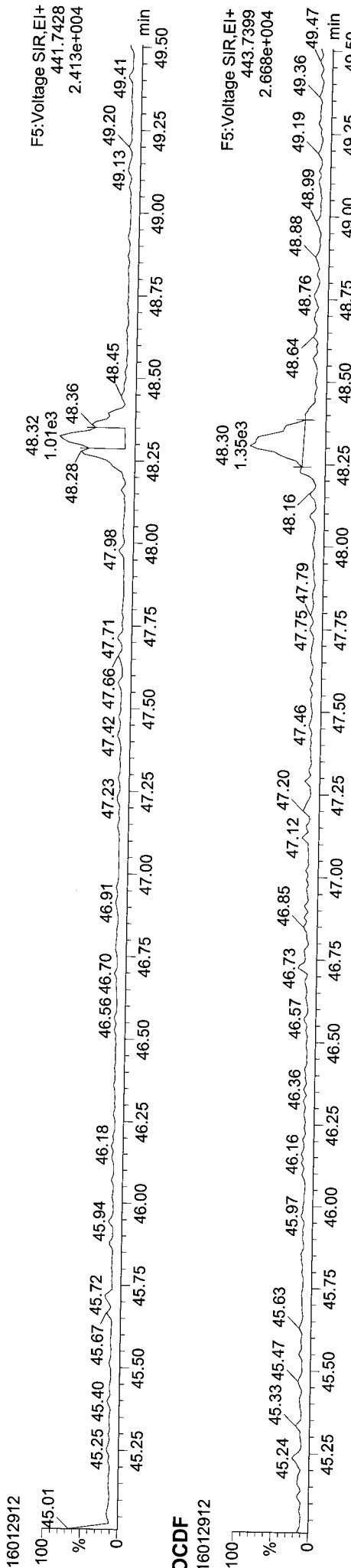


**ID: AT50F, Name: 16012912, Date: 29-Jan-2016, Time: 21:36:00, Conditions: AUTOSPEC01, User: pk**

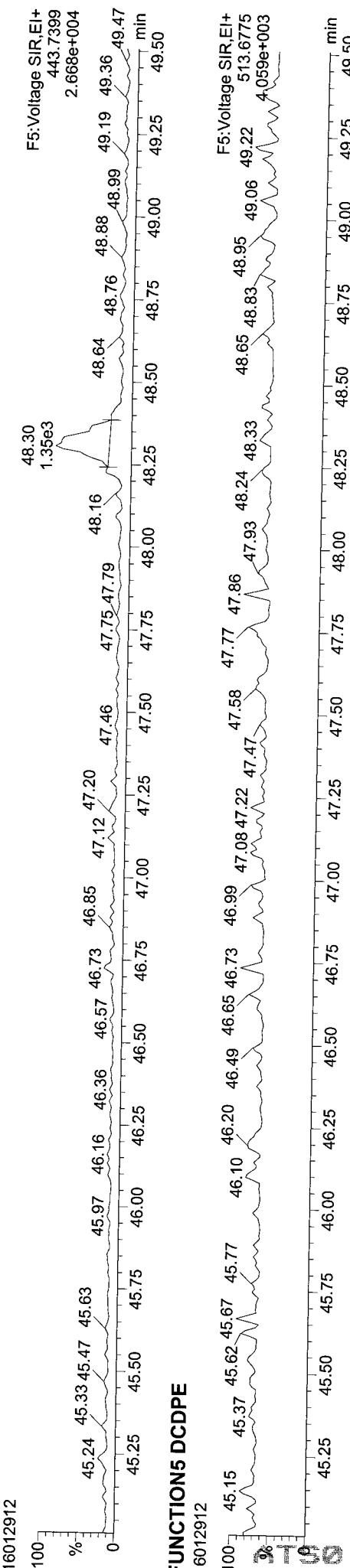
**37CL-2378-TCDD**  
16012912



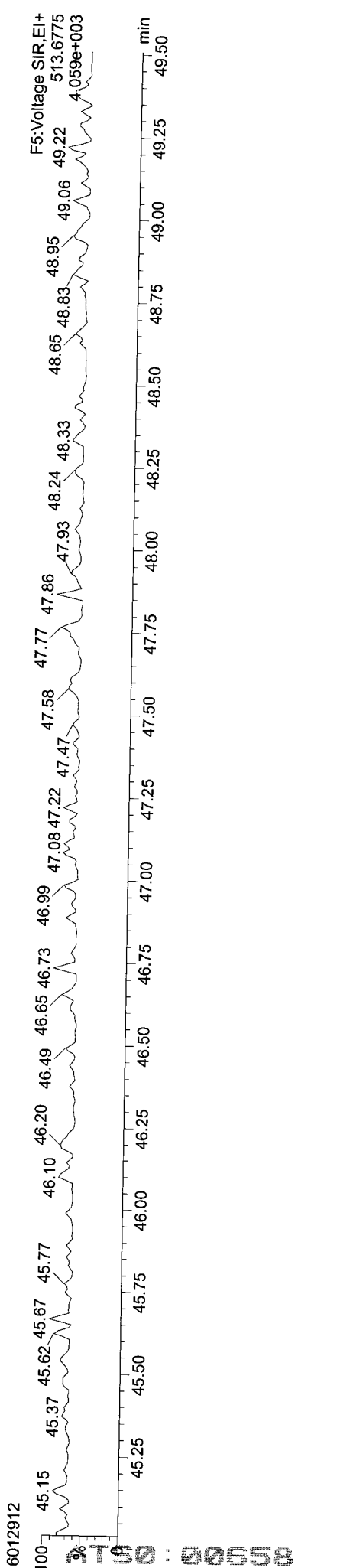
**OCDF**  
16012912



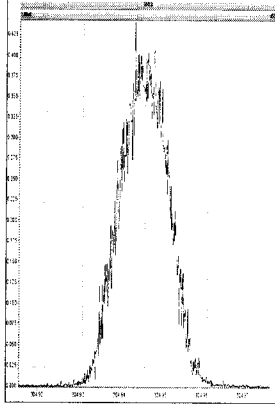
**OCDF**  
16012912



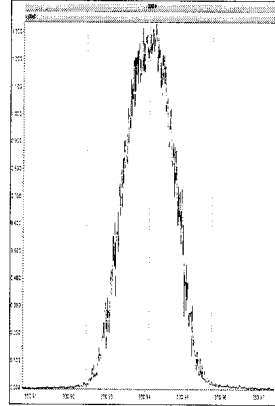
**FUNCTION5 DCDPE**  
16012912



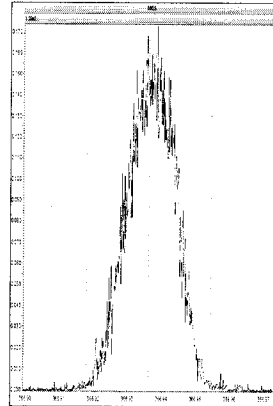
M 304.9824 R 12821



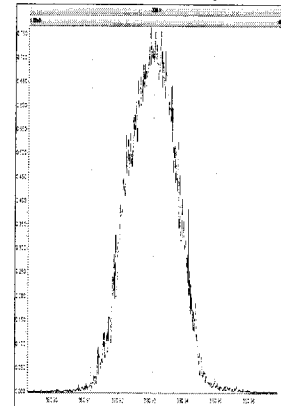
M 330.9792 R 12470



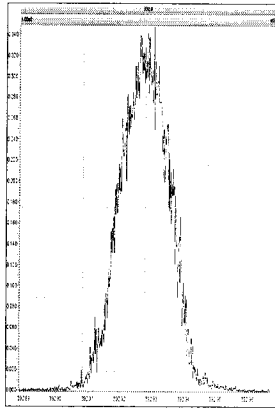
M 366.9792 R 12154



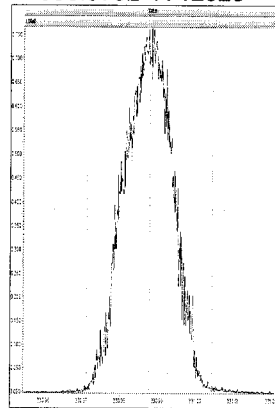
M 380.9760 R 12317



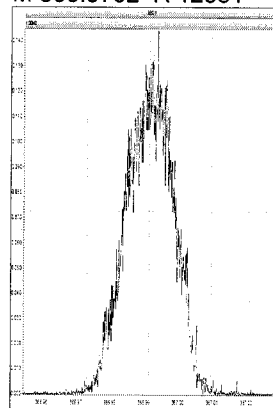
M 392.9760 R 12135



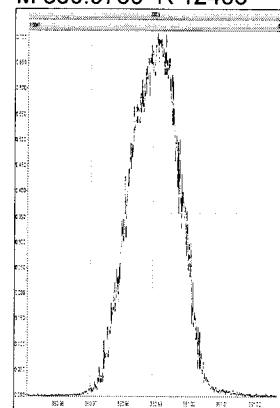
M 330.9792 R 12823



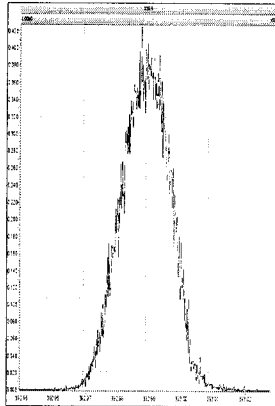
M 366.9792 R 12531



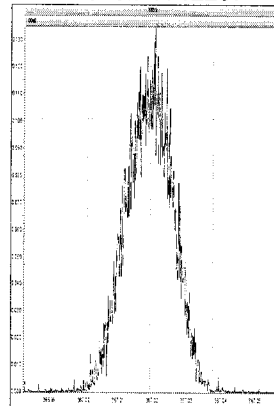
M 380.9760 R 12406



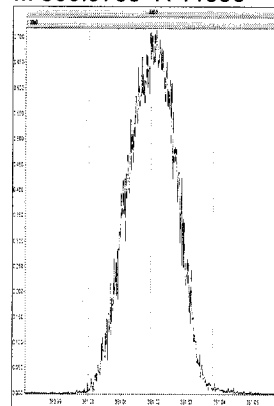
M 392.9760 R 11848



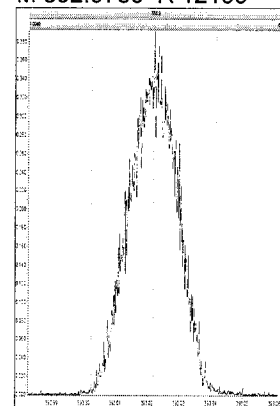
M 366.9792 R 12297



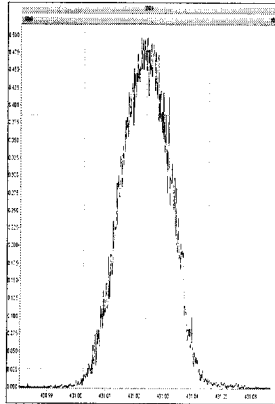
M 380.9760 R 11990



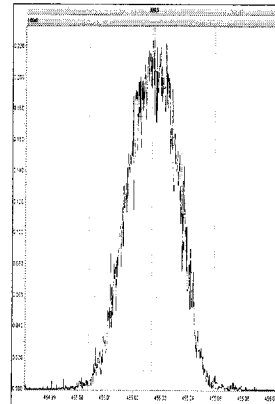
M 392.9760 R 12199



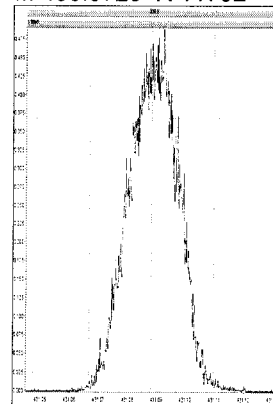
M 430.9728 R 11904



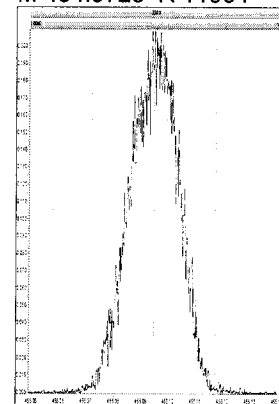
M 454.9728 R 12021



M 430.9728 R 11792

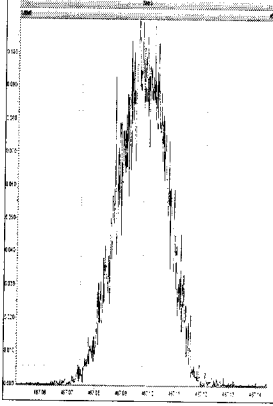


M 454.9728 R 11904

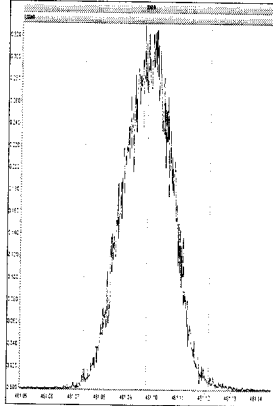


Printed: Friday, January 29, 2016 23:28:03 Pacific Standard Time

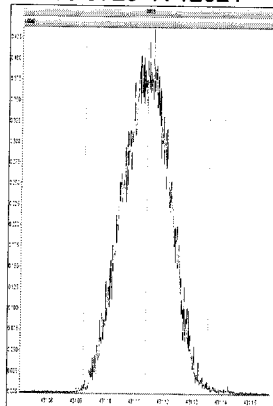
M 466.9728 R 12213



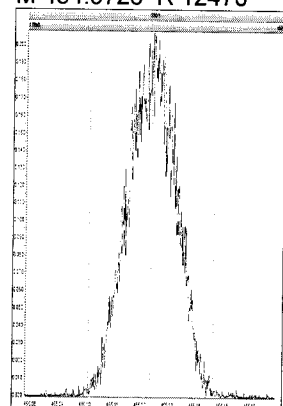
M 480.9696 R 11601



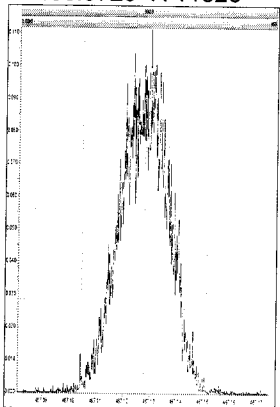
M 430.9728 R 12021



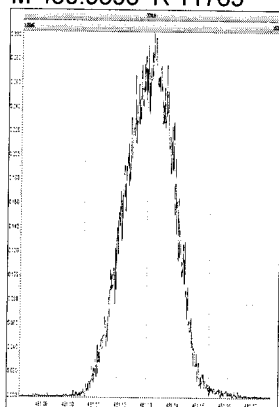
M 454.9728 R 12470



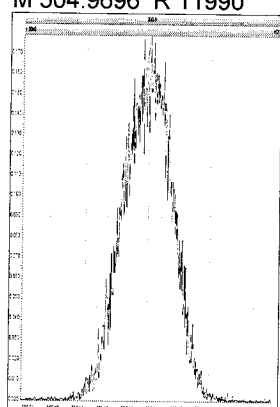
M 466.9728 R 11820



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

ATSO : 00662

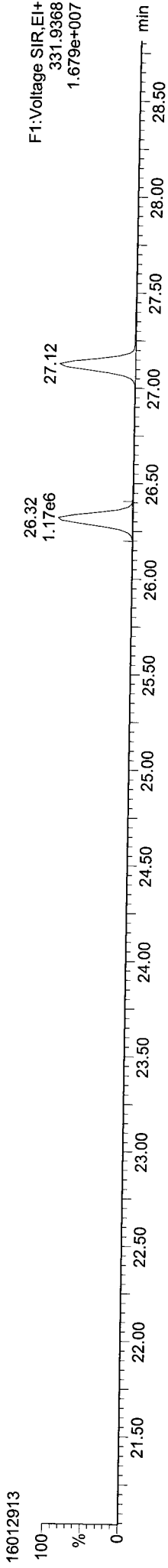
Quantify Sample Report MassLynx V4.1 SCN909

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

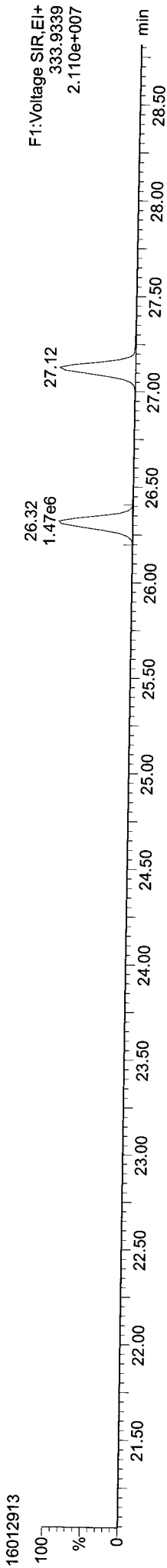
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ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

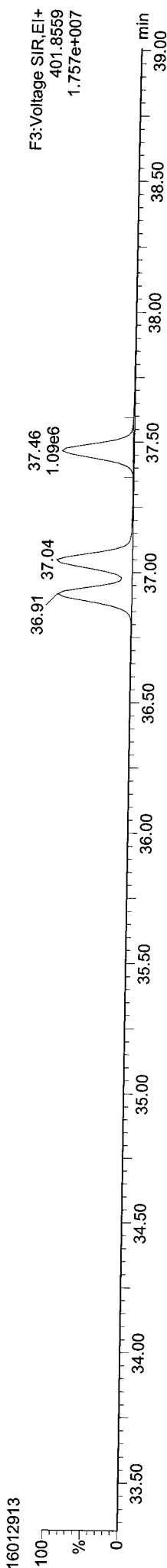
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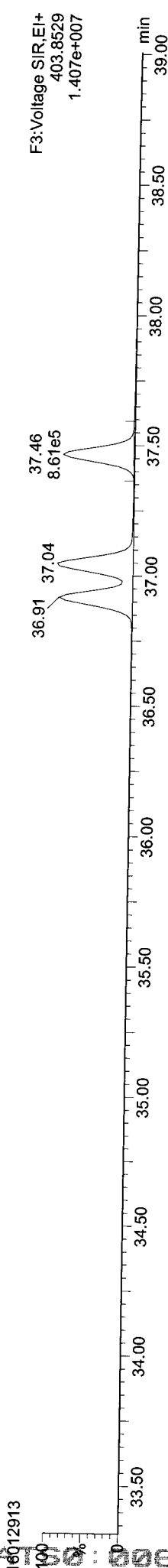
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13C-123789-HxCDD



13C-123789-HxCDD

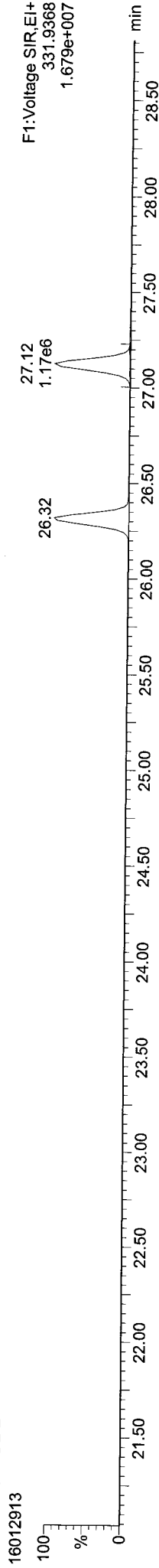


16012913

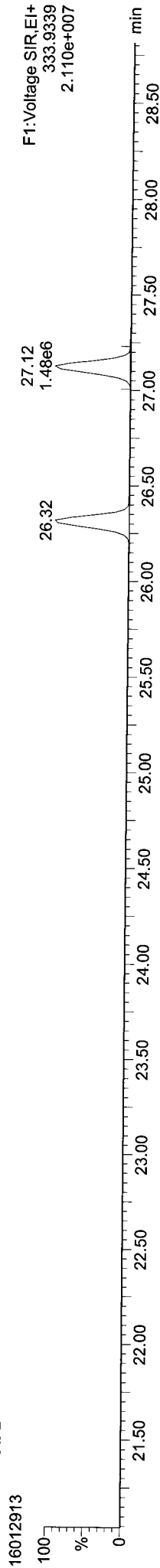
**Quantify Sample Report**    **MassLynx MassLynx V4.1 SCN909**  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

**ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk**

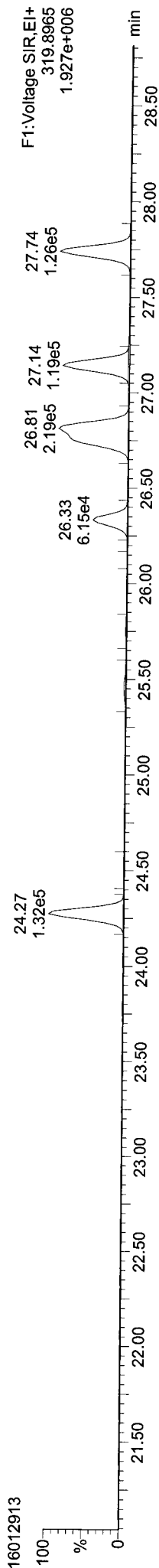
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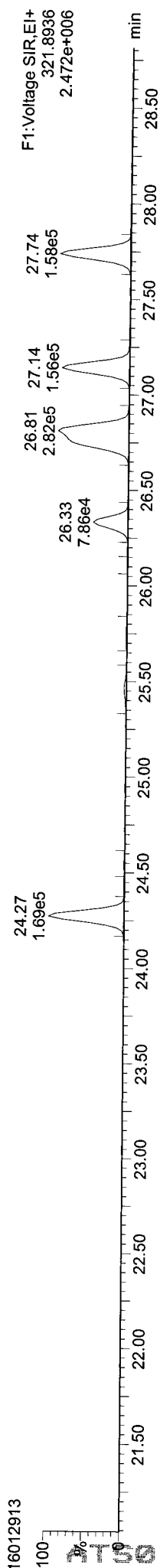
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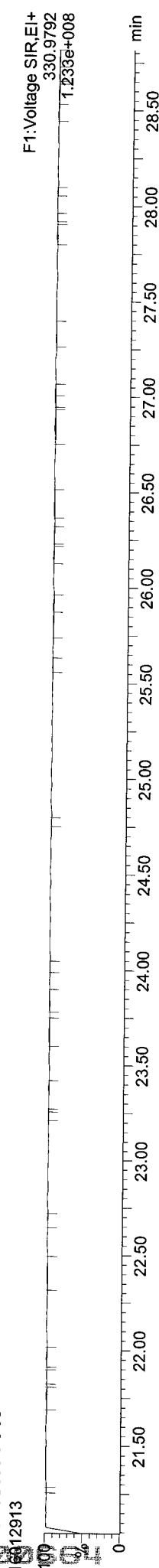
**Total-tetradioxins**



**Total-tetradioxins**



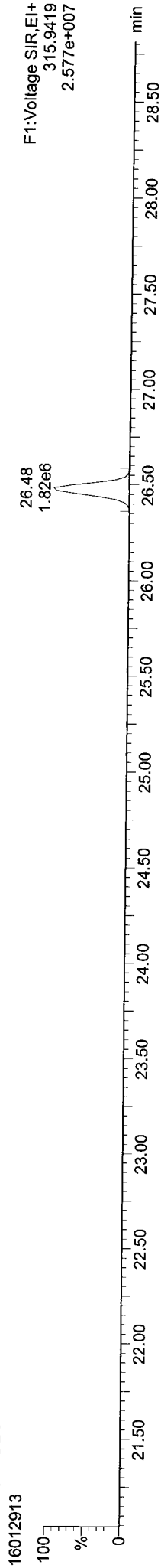
**FUNCTION1 PFK**



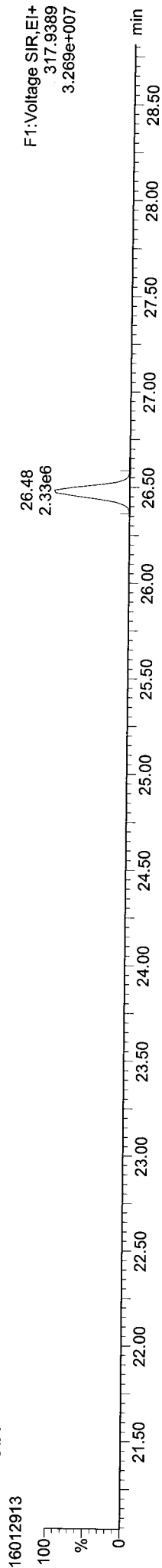
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Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

**ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk**

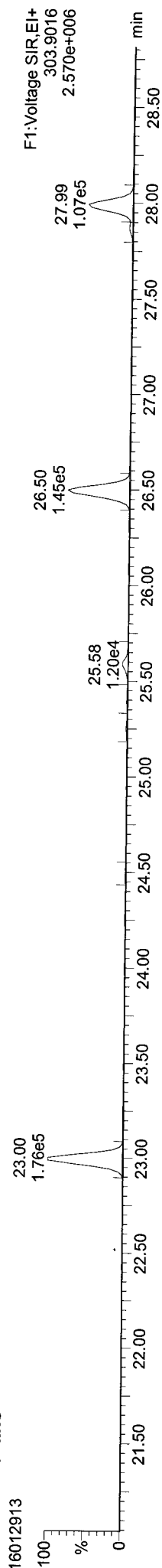
**13C-2378-TCDF**



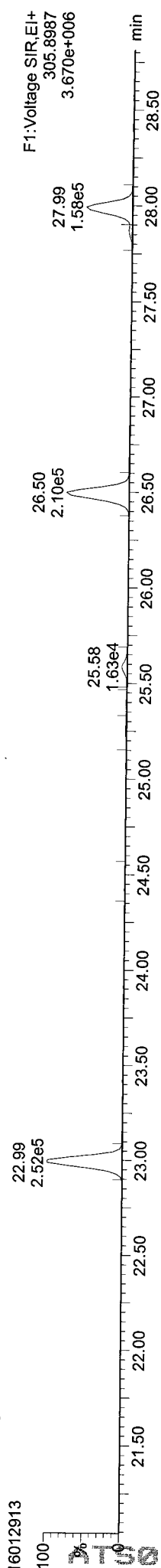
**13C-2378-TCDF**



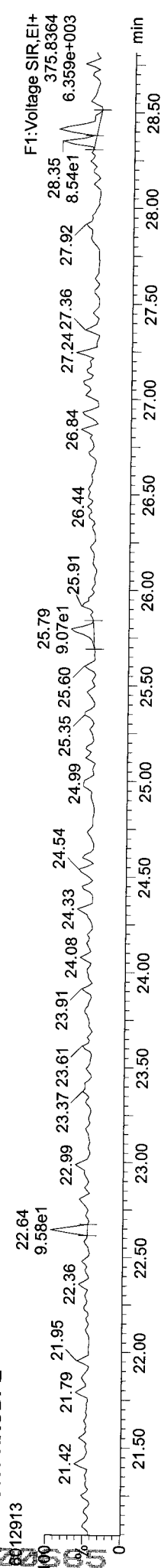
**Total-tetrafurans**



**Total-tetrafurans**



**FUNCTION1 HXCDPE**



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

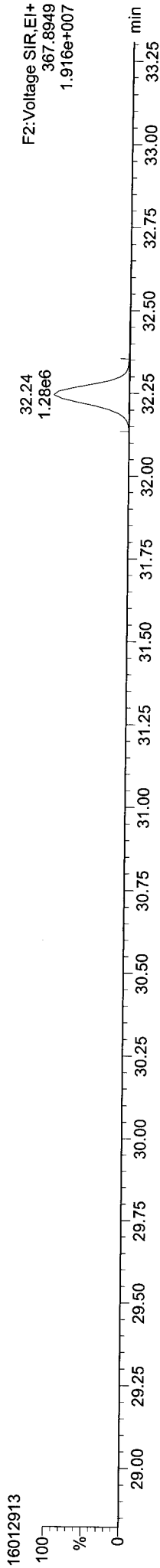
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time

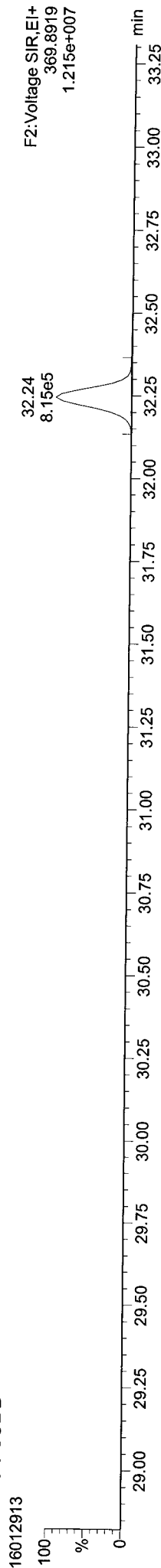
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

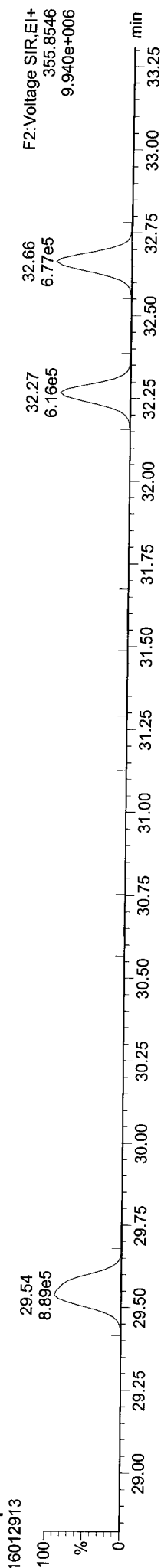
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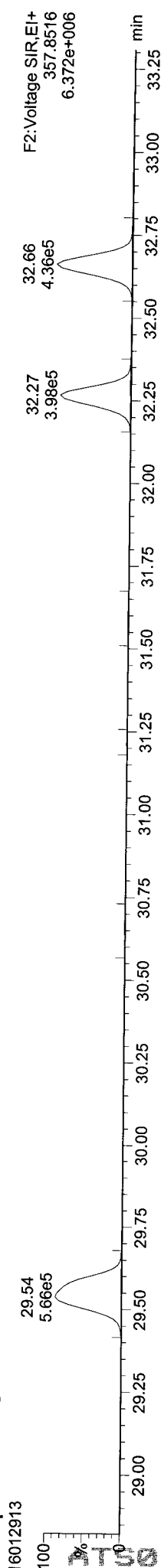
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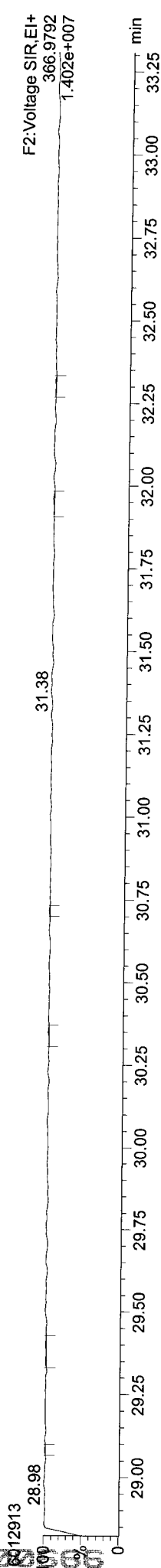
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

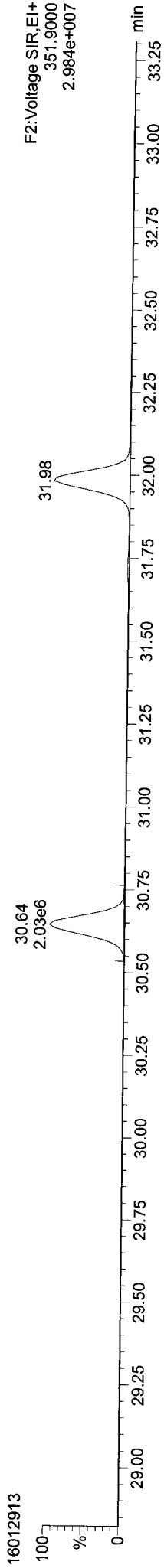


Quantify Sample Report MassLynx V4.1 SCN909

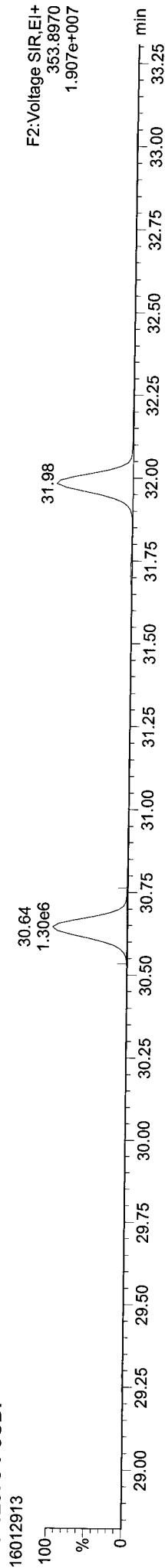
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

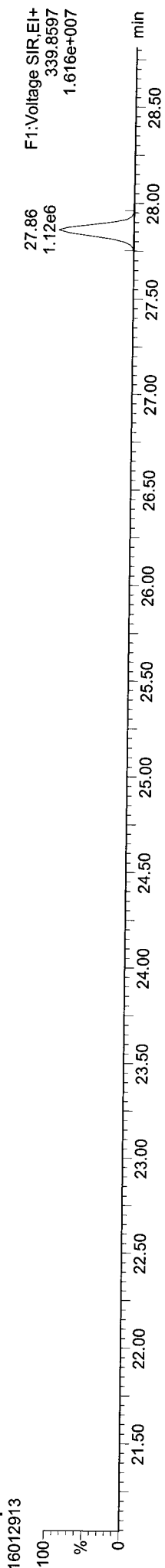
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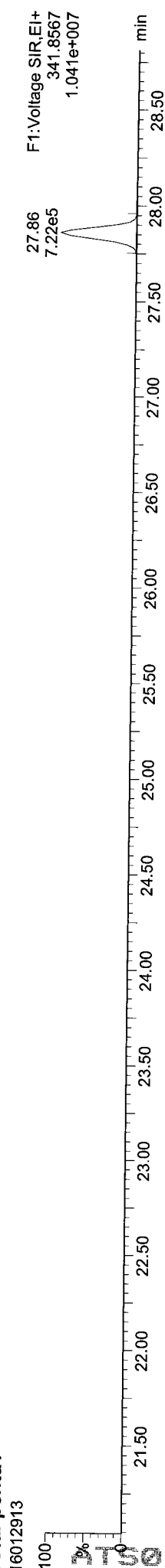
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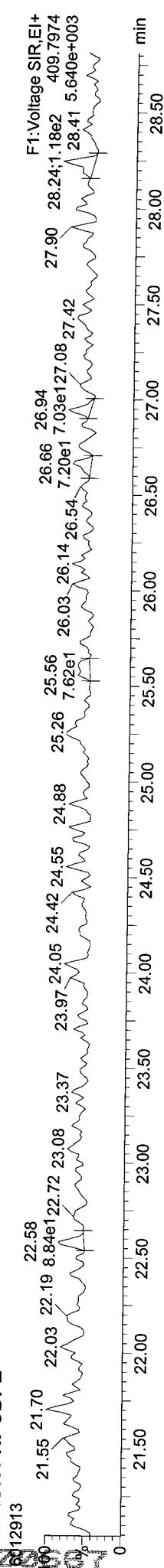
Total-penta1



Total-penta1



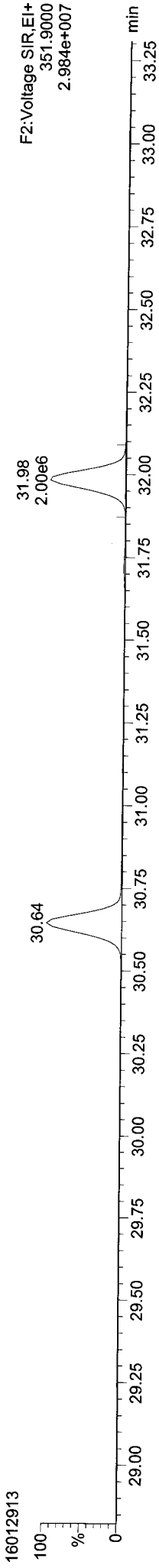
FUNCTION1 HPCDFE



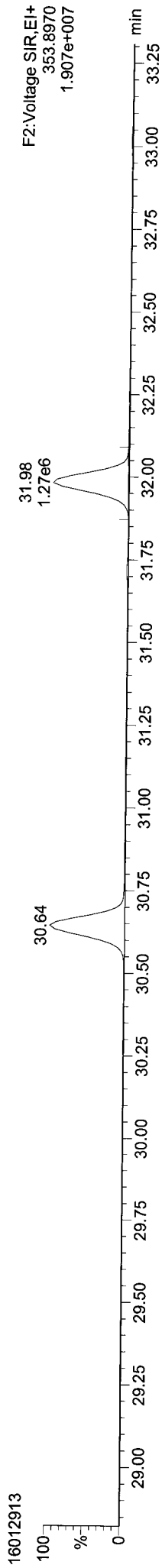
Quantify Sample Report MassLynx MassLynx V4.1 SCN909  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

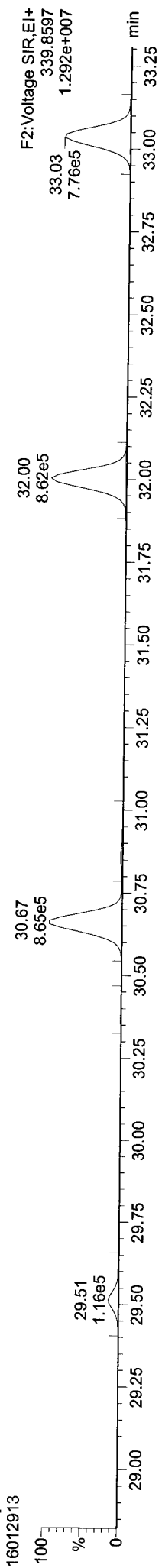
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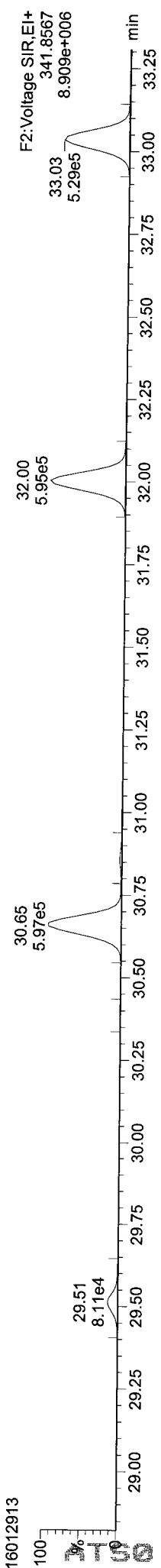
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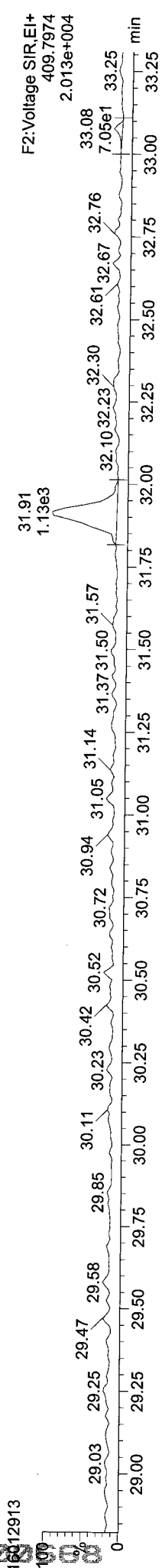
Total-pentafulurans



Total-pentafulurans



FUNCTION2 HPCDFE

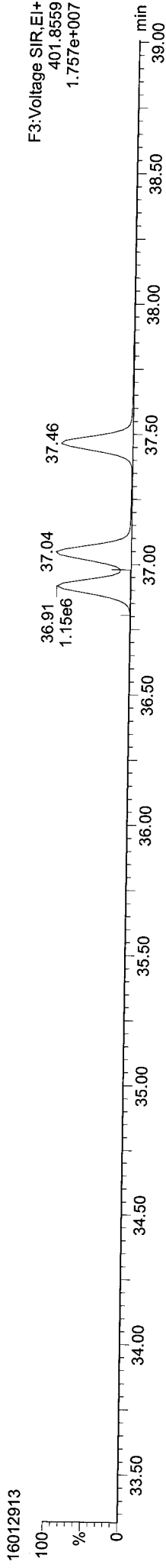


Quantify Sample Report  
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Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

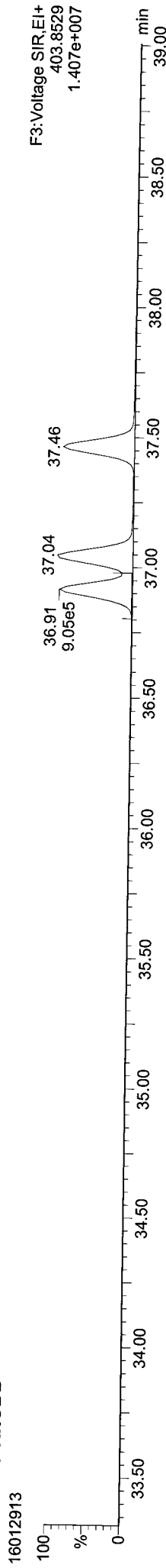
MassLynx V4.1 SCN909

ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

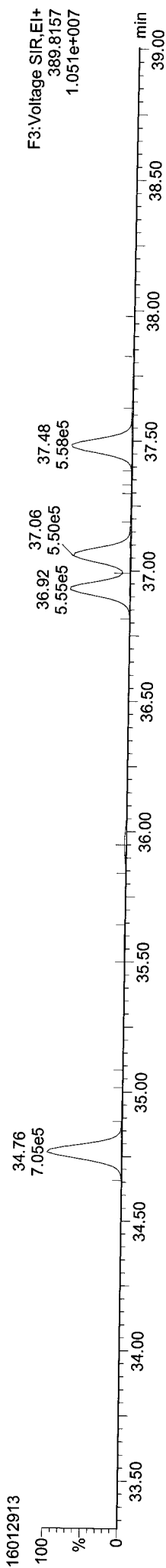
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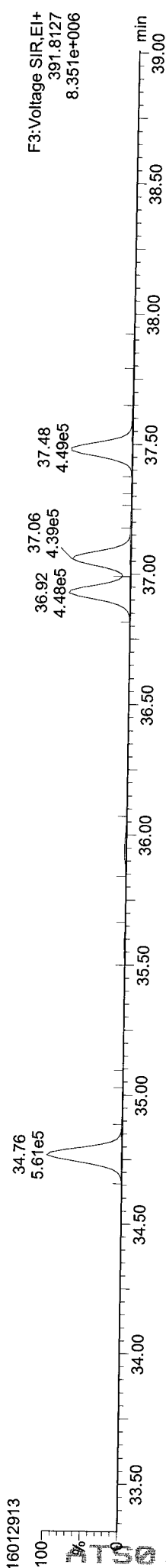
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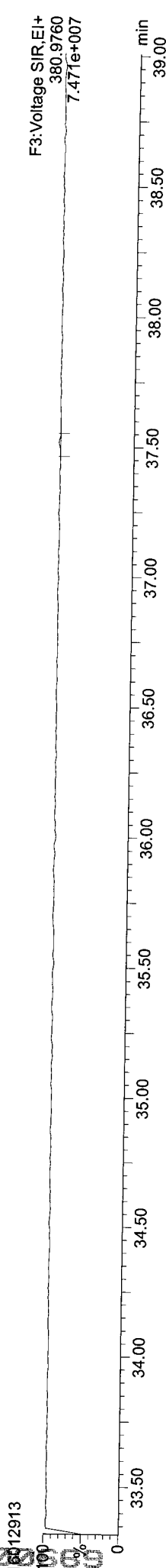
Total-hexadioxins



Total-hexadioxins



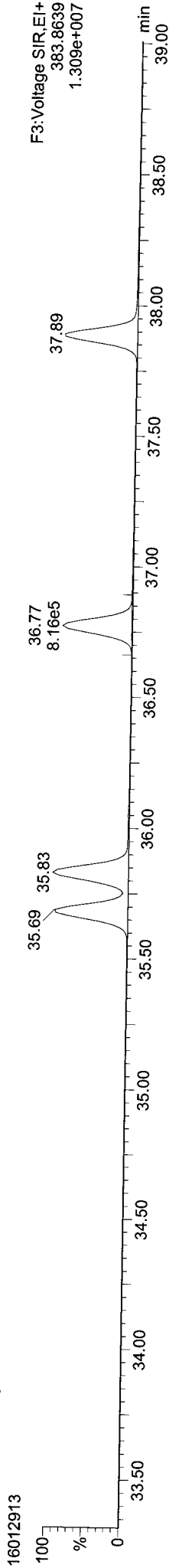
FUNCTION3 PFK



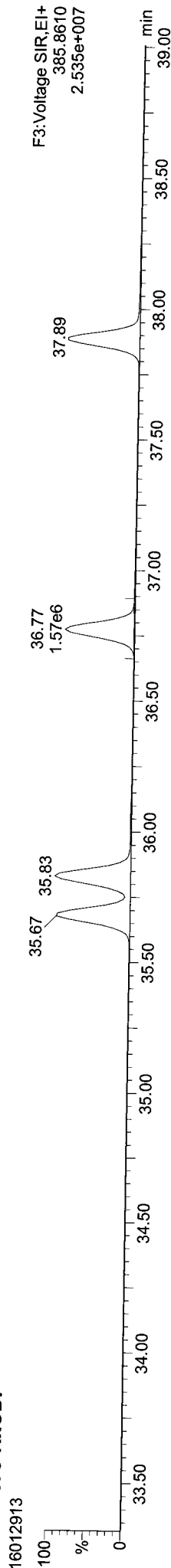


ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

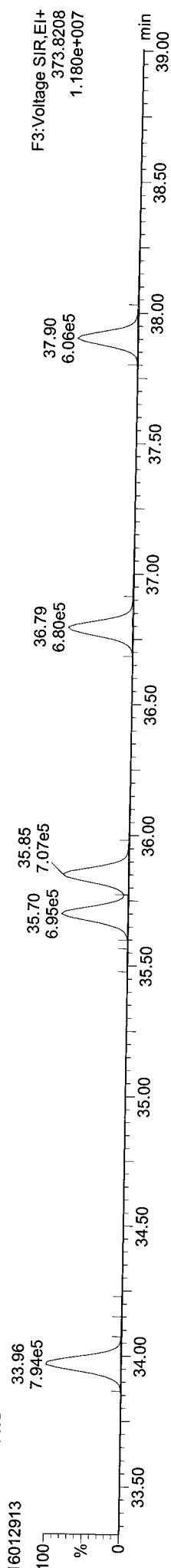
13C-234678-HxCDF



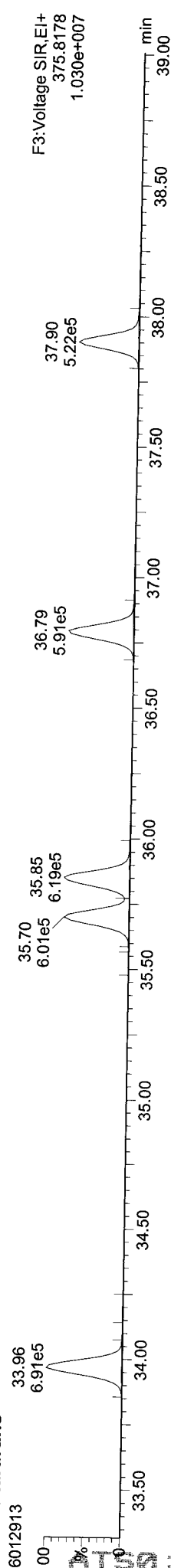
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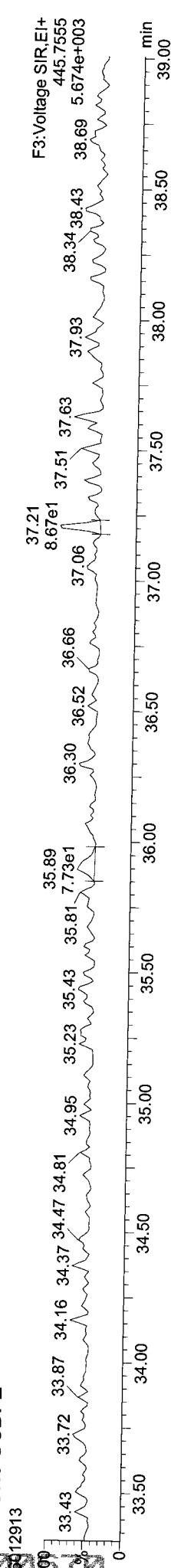
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

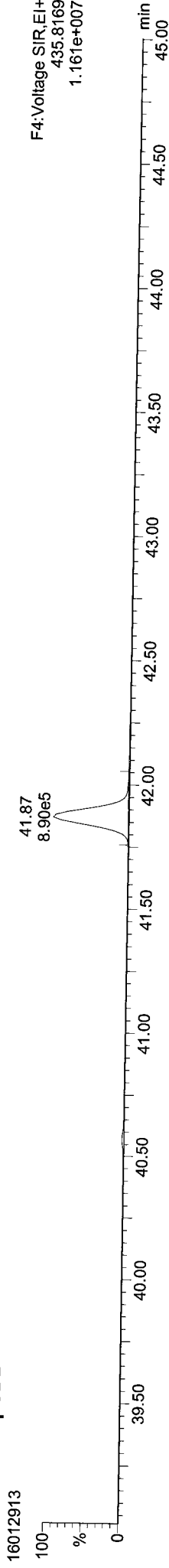


Quantify Sample Report  
Dataset: P:\DIOXIN8290.PRO\160129DATA.qld  
Last Altered: Monday, February 01, 2016 12:05:55 Pacific Standard Time  
Printed: Monday, February 01, 2016 12:07:55 Pacific Standard Time

MassLynx V4.1 SCN909

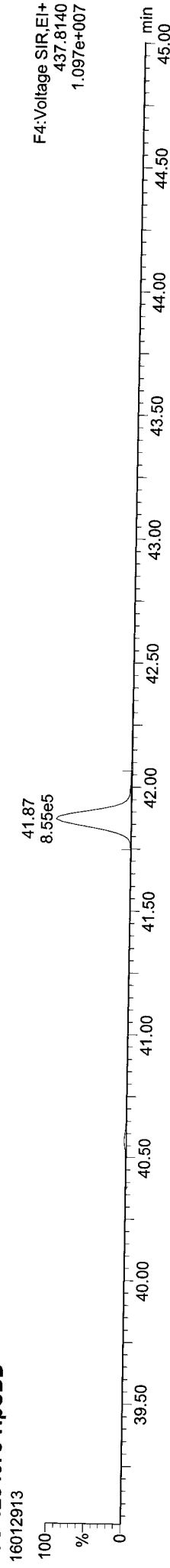
ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD



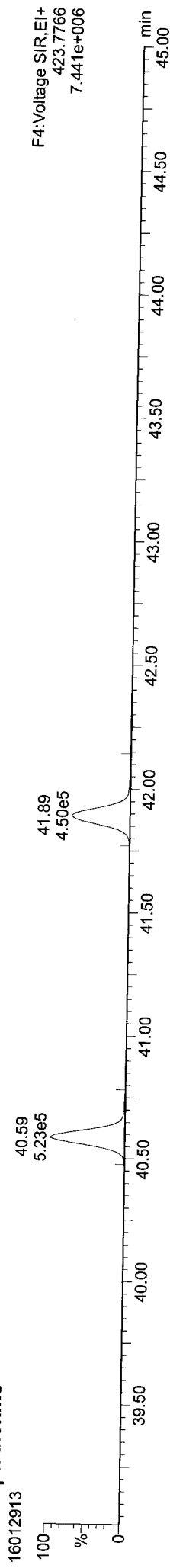
F4: Voltage SIR, EI+  
435.8169  
1.161e+007

13C-1234678-HpCDD



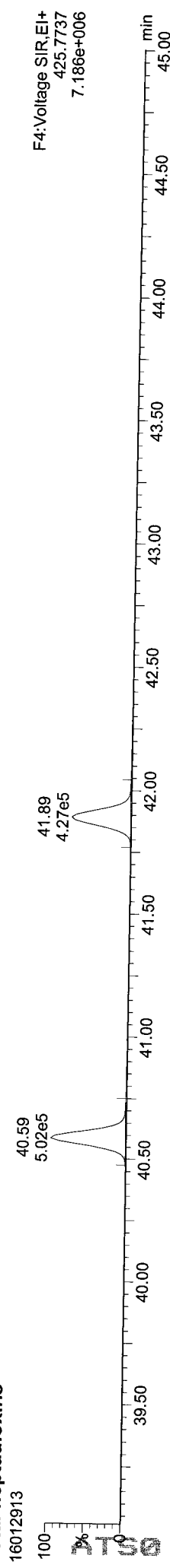
F4: Voltage SIR, EI+  
437.8140  
1.097e+007

Total-heptadioxins



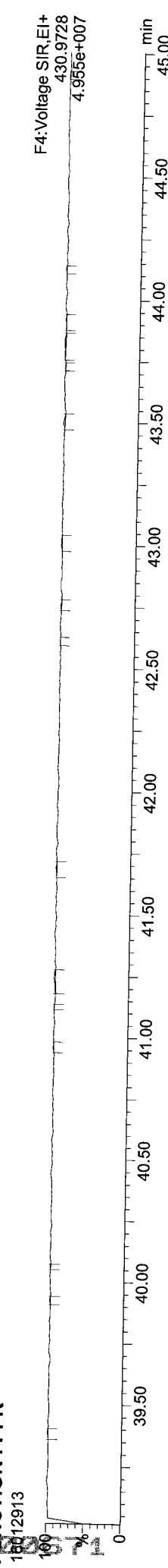
F4: Voltage SIR, EI+  
423.7766  
7.441e+006

Total-heptadioxins



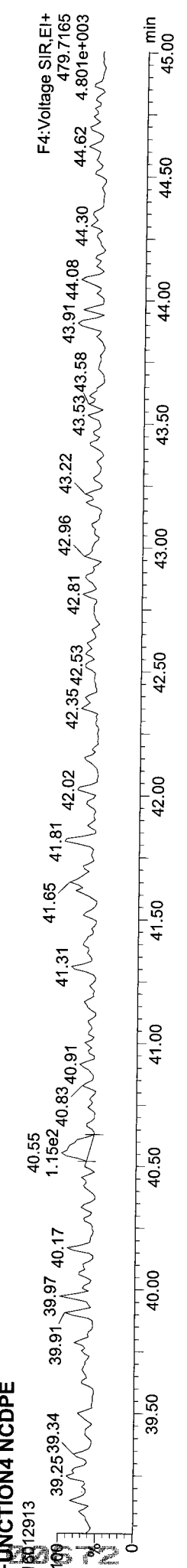
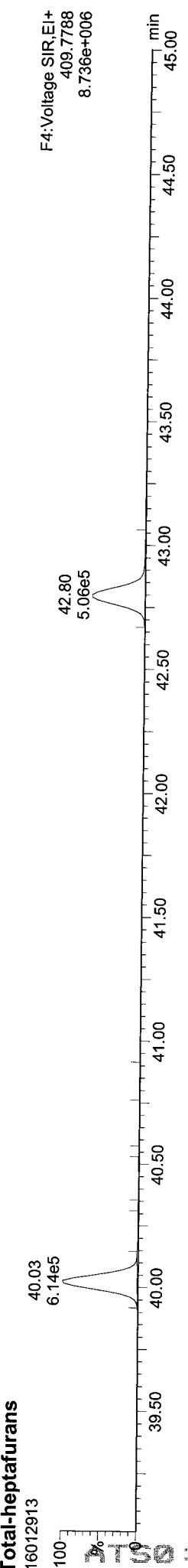
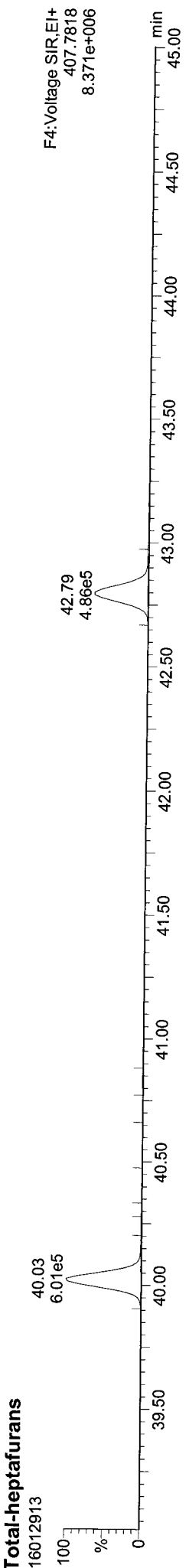
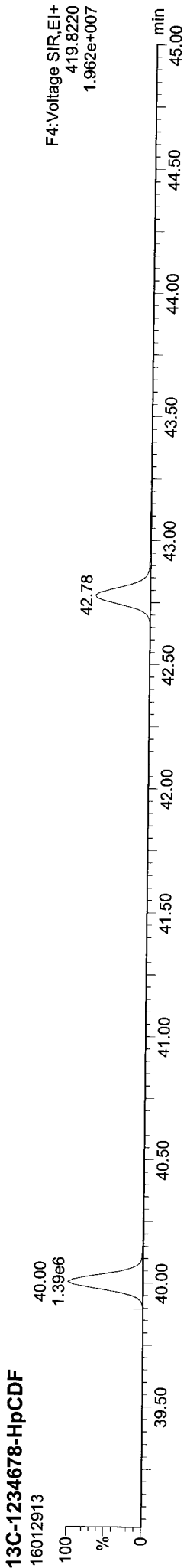
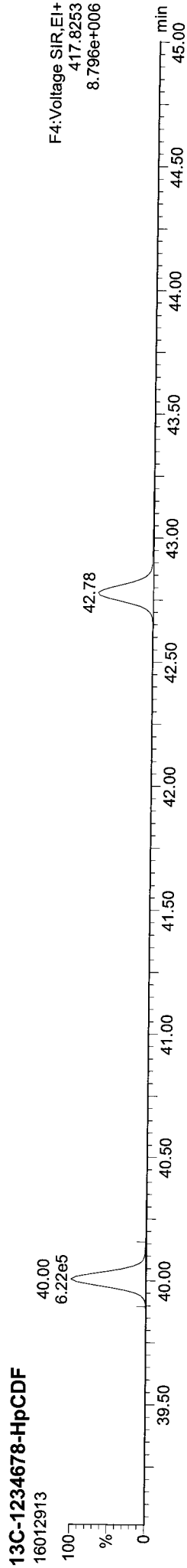
F4: Voltage SIR, EI+  
425.7737  
7.186e+006

FUNCTION4 PFK

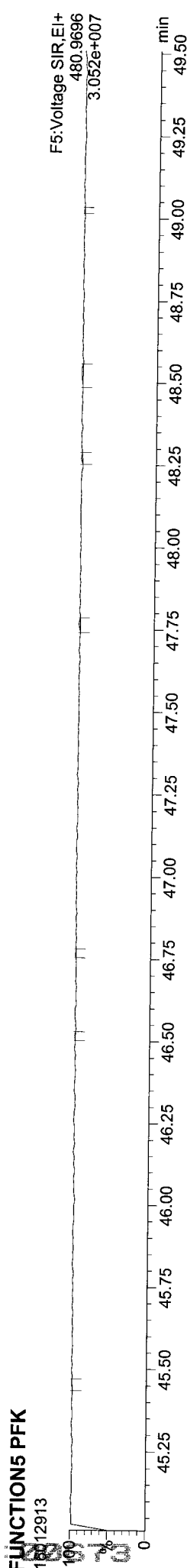
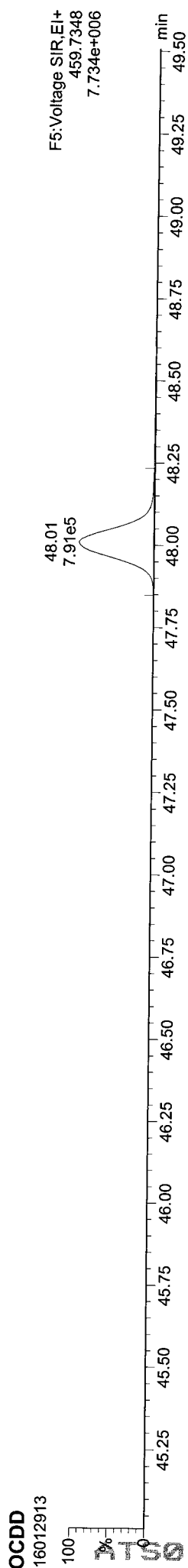
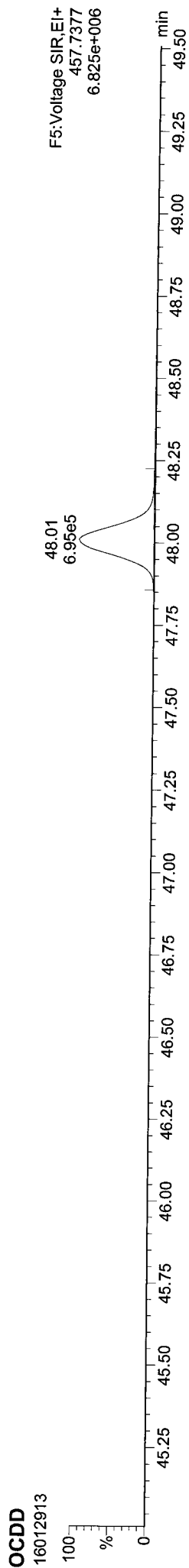
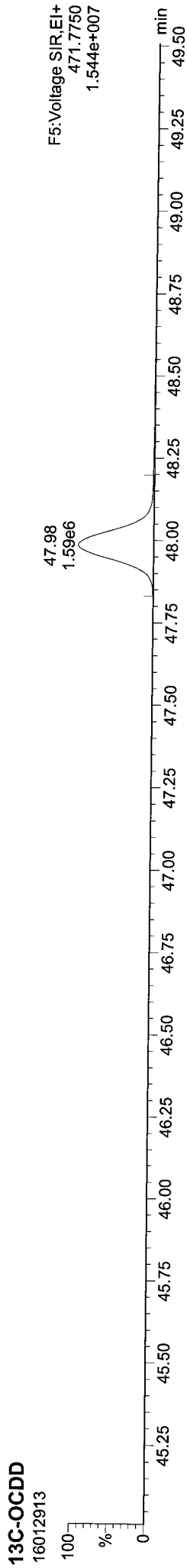
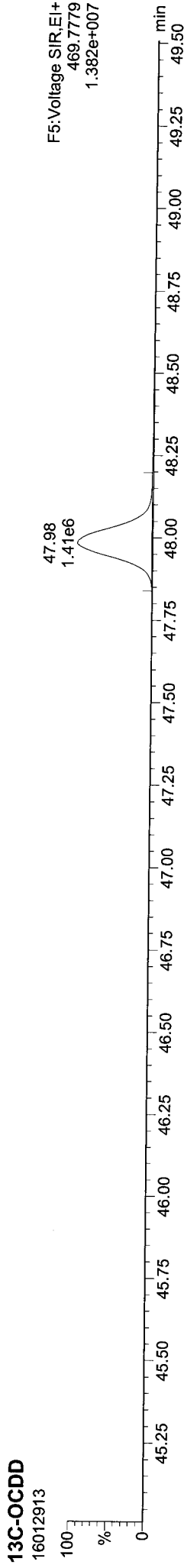


F4: Voltage SIR, EI+  
430.9728  
4.955e+007

**ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk**



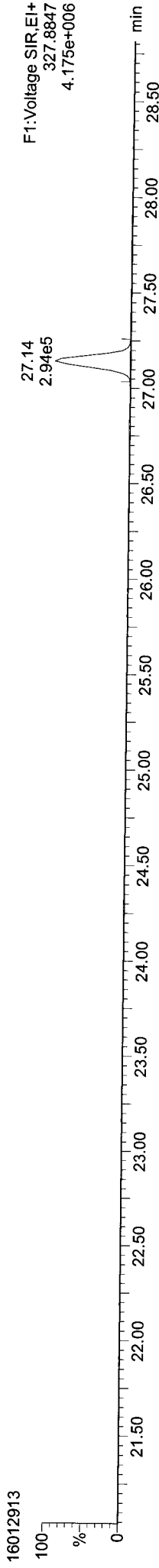
ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk



**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

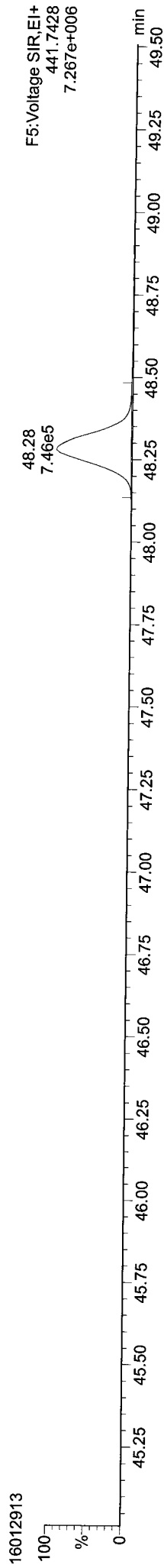
**ID: CS3, Name: 16012913, Date: 29-Jan-2016, Time: 22:29:47, Conditions: AUTOSPEC01, User: pk**

**37CL-2378-TCDD**



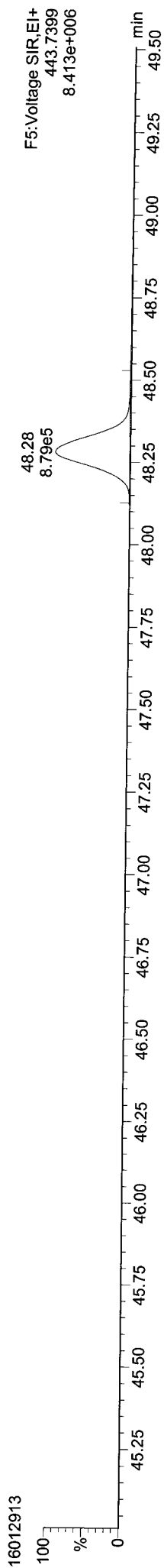
F1: Voltage SIR, EI+  
327.8847  
4.175e+006

**OCDF**



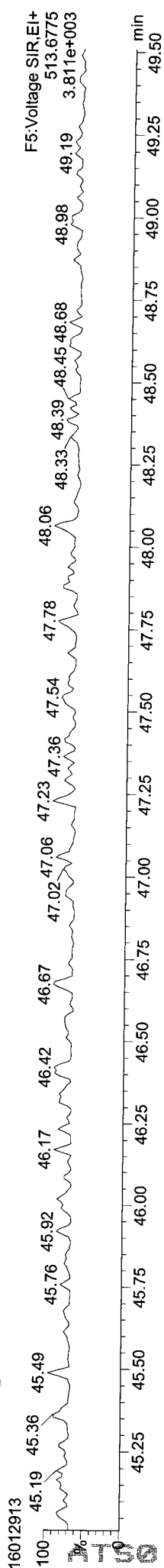
F5: Voltage SIR, EI+  
441.7428  
7.267e+006

**OCDF**



F5: Voltage SIR, EI+  
443.7399  
8.413e+006

**FUNCTION5 DCDPE**



F5: Voltage SIR, EI+  
443.7399  
513.6775  
3.811e+003

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:  
 HNO<sub>3</sub>: D3791 HCl: - H<sub>2</sub>O<sub>2</sub>: 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 7:20

ICP2	Analyst DS 8/12/16	Peer AN-20-16	Comment
<b>Logbook:</b>			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
<b>Calibration:</b>			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
<b>Calibration Verification:</b>			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
<b>Samples:</b>			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
<b>Method QC:</b>			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
<b>Matrix QC:</b>			
SRM/LCS	✓	✓	
Matrix Spikes	✓	—	AUG3, AUA6
Matrix Duplicates	✓	—	AUG3
Method Blanks	✓	—	AUG7, AUA6
<b>Data Distribution:</b>			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
<b>Necessary Analysts Notes and CAF's</b>	✓	✓	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	FRN	
		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		0.887mL ICP SPK (D3892)
		CCW3			
		CCB3			End PKG ATS8
		<del>AUG7 MBI</del>	<del>SWC</del>	<del>2</del>	<del>Ca 7RL (0.1423mg/L) CAF</del>
		<del>AUA6 MB</del>	<del>↓</del>	<del>↓</del>	<del>Ca 7RL (0.87372mg/L) CAF</del>
		<del>AUG3 MBI</del>	<del>↓</del>	<del>↓</del>	
		<del>ATZ4 ADUP</del>	<del>TWC</del>	<del>✓</del>	
		<del>↓ A</del>	<del>↓</del>	<del>✓</del>	
		<del>↓ ASPK</del>	<del>↓</del>	<del>✓</del>	
		<del>AUG3 MBISPK</del>	<del>SWC</del>	<del>2</del>	
		<del>AUA6 MBSPK</del>	<del>↓</del>	<del>↓</del>	
		<del>AUG7 MBISPK</del>	<del>↓</del>	<del>↓</del>	
		<del>CCW4</del>			
		<del>CCB4</del>			
	✓	AUG7 A	SWC	2	RR25x Fe 7240mg/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

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Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	170.0 kPa	0.75 L/min

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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. Units	Calib
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

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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

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Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	172.0 kPa	0.75 L/min

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Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	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
Al 308.215†	51.4	0.04979	mg/L	0.002693	0.04979	mg/L	0.002693
As 188.979†	45.0	0.05356	mg/L	0.002447	0.05356	mg/L	0.002447
B 249.677†	84.2	0.02224	mg/L	0.001354	0.02224	mg/L	0.001354
Ba 233.527†	4.9	0.00209	mg/L	0.000987	0.00209	mg/L	0.000987
Be 313.042†	327.0	0.00108	mg/L	0.000044	0.00108	mg/L	0.000044
Ca 317.933†	351.3	0.05365	mg/L	0.000366	0.05365	mg/L	0.000366
Cd 228.802†	50.5	0.00211	mg/L	0.000081	0.00211	mg/L	0.000081
Co 228.616†	65.6	0.00314	mg/L	0.000071	0.00314	mg/L	0.000071
Cr 267.716†	18.2	0.00601	mg/L	0.000486	0.00601	mg/L	0.000486
Cu 324.752†	538.2	0.00220	mg/L	0.000134	0.00220	mg/L	0.000134
Fe 273.955†	29.4	0.05154	mg/L	0.001591	0.05154	mg/L	0.001591
K 766.490†	1093.0	0.5109	mg/L	0.00625	0.5109	mg/L	0.00625
Mg 279.077†	36.0	0.04870	mg/L	0.001914	0.04870	mg/L	0.001914
Mn 257.610†	18.4	0.00107	mg/L	0.000209	0.00107	mg/L	0.000209
Mo 202.031†	57.1	0.00551	mg/L	0.000227	0.00551	mg/L	0.000227
Na 589.592†	6759.0	0.4972	mg/L	0.00402	0.4972	mg/L	0.00402
Na 330.237†	9.0	0.5815	mg/L	0.22193	0.5815	mg/L	0.22193
Ni 231.604†	19.5	0.00999	mg/L	0.001542	0.00999	mg/L	0.001542
Pb 220.353†	102.4	0.02211	mg/L	0.000295	0.02211	mg/L	0.000295
Sb 206.836†	98.9	0.05447	mg/L	0.001106	0.05447	mg/L	0.001106
Se 196.026†	35.3	0.04946	mg/L	0.003932	0.04946	mg/L	0.003932
Si 288.158†	67.6	0.05971	mg/L	0.002926	0.05971	mg/L	0.002926
Sn 189.927†	19.4	0.01088	mg/L	0.001352	0.01088	mg/L	0.001352
Sr 421.552†	690.4	0.00105	mg/L	0.000031	0.00105	mg/L	0.000031
Ti 334.903†	53.8	0.00487	mg/L	0.000338	0.00487	mg/L	0.000338
Tl 190.801†	56.4	0.05353	mg/L	0.004685	0.05353	mg/L	0.004685
V 292.402†	347.2	0.00306	mg/L	0.000030	0.00306	mg/L	0.000030
Zn 206.200†	17.7	0.01059	mg/L	0.000349	0.01059	mg/L	0.000349

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		RSD
	Intensity	Conc.	Calib. Units		Conc.	Units	
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	0.0094	1.073 mg/L	0.0094	0.88%
Al 308.215†	205783.1	200.0	mg/L	0.41	200.0 mg/L	0.41	0.20%
As 188.979†	885.0	1.037	mg/L	0.0104	1.037 mg/L	0.0104	1.00%
B 249.677†	11.6	0.00070	mg/L	0.001427	0.00070 mg/L	0.001427	202.64%
Ba 233.527†	2442.0	1.015	mg/L	0.0048	1.015 mg/L	0.0048	0.47%
Be 313.042†	297508.6	0.9821	mg/L	0.00059	0.9821 mg/L	0.00059	0.06%
Ca 317.933†	652132.4	99.64	mg/L	0.156	99.64 mg/L	0.156	0.16%
Cd 228.802†	21915.3	1.036	mg/L	0.0058	1.036 mg/L	0.0058	0.56%
Co 228.616†	19899.6	0.9555	mg/L	0.00654	0.9555 mg/L	0.00654	0.68%
Cr 267.716†	3078.8	1.016	mg/L	0.0019	1.016 mg/L	0.0019	0.19%
Cu 324.752†	254893.6	1.049	mg/L	0.0007	1.049 mg/L	0.0007	0.07%
Fe 273.955†	112405.1	196.9	mg/L	0.56	196.9 mg/L	0.56	0.28%
K 766.490†	15.5	0.00726	mg/L	0.006161	0.00726 mg/L	0.006161	84.88%
Mg 279.077†	73705.0	99.68	mg/L	0.195	99.68 mg/L	0.195	0.20%
Mn 257.610†	16774.0	0.9662	mg/L	0.00436	0.9662 mg/L	0.00436	0.45%
Mo 202.031†	48.9	0.00291	mg/L	0.000735	0.00291 mg/L	0.000735	25.30%
Na 589.592†	-30.8	-0.00226	mg/L	0.001284	-0.00226 mg/L	0.001284	56.71%
Na 330.237†	11.7	0.4637	mg/L	0.19446	0.4637 mg/L	0.19446	41.94%
Ni 231.604†	1855.3	0.9524	mg/L	0.00335	0.9524 mg/L	0.00335	0.35%
Pb 220.353†	4475.5	1.003	mg/L	0.0029	1.003 mg/L	0.0029	0.28%
Sb 206.836†	1903.8	1.037	mg/L	0.0063	1.037 mg/L	0.0063	0.60%
Se 196.026†	758.0	1.021	mg/L	0.0068	1.021 mg/L	0.0068	0.67%
Si 288.158†	-19.0	-0.01290	mg/L	0.001866	-0.01290 mg/L	0.001866	14.47%
Sn 189.927†	-79.7	-0.02177	mg/L	0.000362	-0.02177 mg/L	0.000362	1.66%
Sr 421.552†	4145.0	0.00632	mg/L	0.000015	0.00632 mg/L	0.000015	0.24%
Ti 334.903†	121.5	0.00411	mg/L	0.000558	0.00411 mg/L	0.000558	13.59%
Tl 190.801†	987.4	0.9503	mg/L	0.00407	0.9503 mg/L	0.00407	0.43%
V 292.402†	114020.7	0.9928	mg/L	0.00862	0.9928 mg/L	0.00862	0.87%
Zn 206.200†	1567.5	0.9375	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	
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  
Sample ID: CV1

Autosampler Location: 7  
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 Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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

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 values.

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. Units	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	mg/L	0.000167	0.00026 mg/L	0.000167	63.95%
Al 308.215†	1118.6	1.087 mg/L	mg/L	0.0162	1.087 mg/L	0.0162	1.49%
As 188.979†	62.0	0.07017 mg/L	mg/L	0.002097	0.07017 mg/L	0.002097	2.99%
B 249.677†	869.0	0.2296 mg/L	mg/L	0.00109	0.2296 mg/L	0.00109	0.47%
Ba 233.527†	11.5	0.00460 mg/L	mg/L	0.001606	0.00460 mg/L	0.001606	34.88%
Be 313.042†	-1.1	-0.00001 mg/L	mg/L	0.000018	-0.00001 mg/L	0.000018	229.27%
Ca 317.933†	256957.5	39.25 mg/L	mg/L	0.347	39.25 mg/L	0.347	0.88%
Cd 228.802†	418.2	0.01947 mg/L	mg/L	0.000373	0.01947 mg/L	0.000373	1.92%
Co 228.616†	50.1	0.00228 mg/L	mg/L	0.000196	0.00228 mg/L	0.000196	8.57%
Cr 267.716†	34.8	0.00802 mg/L	mg/L	0.001075	0.00802 mg/L	0.001075	13.41%
Cu 324.752†	12897.5	0.05194 mg/L	mg/L	0.000246	0.05194 mg/L	0.000246	0.47%
Fe 273.955†	1169.3	2.048 mg/L	mg/L	0.0258	2.048 mg/L	0.0258	1.26%
K 766.490†	233574.5	109.2 mg/L	mg/L	0.89	109.2 mg/L	0.89	0.81%
Mg 279.077†	23976.5	32.47 mg/L	mg/L	0.327	32.47 mg/L	0.327	1.01%
Mn 257.610†	1566.5	0.09022 mg/L	mg/L	0.000933	0.09022 mg/L	0.000933	1.03%
Mo 202.031†	181.7	0.01684 mg/L	mg/L	0.000247	0.01684 mg/L	0.000247	1.46%
Na 589.592†	3067821.1	225.7 mg/L	mg/L	1.60	225.7 mg/L	1.60	0.71%
Na 330.237†	3561.4	231.0 mg/L	mg/L	2.67	231.0 mg/L	2.67	1.16%
Ni 231.604†	12.3	0.00629 mg/L	mg/L	0.001225	0.00629 mg/L	0.001225	19.48%
Pb 220.353†	12.1	0.00272 mg/L	mg/L	0.001233	0.00272 mg/L	0.001233	45.33%
Sb 206.836†	1.7	0.00069 mg/L	mg/L	0.001001	0.00069 mg/L	0.001001	144.97%
Se 196.026†	22.3	0.02943 mg/L	mg/L	0.005221	0.02943 mg/L	0.005221	17.74%
Si 288.158†	602.8	0.5332 mg/L	mg/L	0.00454	0.5332 mg/L	0.00454	0.85%
Sn 189.927†	-36.0	-0.01137 mg/L	mg/L	0.001015	-0.01137 mg/L	0.001015	8.93%
Sr 421.552†	181681.1	0.2769 mg/L	mg/L	0.00192	0.2769 mg/L	0.00192	0.69%
Ti 334.903†	765.8	0.06684 mg/L	mg/L	0.000491	0.06684 mg/L	0.000491	0.73%
Tl 190.801†	2.6	0.00269 mg/L	mg/L	0.001137	0.00269 mg/L	0.001137	42.25%
V 292.402†	1571.4	0.01368 mg/L	mg/L	0.000019	0.01368 mg/L	0.000019	0.14%
Zn 206.200†	1116.0	0.6674 mg/L	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		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc.. Units	Std.Dev.	
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 Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc. Units	Std.Dev.	
ScA 357.253	2305551.6		102.9 %	0.85			0.82%
ScR 361.383	181956.8		103.3 %	0.49			0.48%
Ag 328.068†	8.2	0.00005	mg/L	0.000092	0.00005	mg/L	0.000092 172.80%
Al 308.215†	3.6	0.00350	mg/L	0.001821	0.00350	mg/L	0.001821 52.06%
As 188.979†	1.2	0.00137	mg/L	0.001797	0.00137	mg/L	0.001797 131.28%
B 249.677†	-0.7	-0.00019	mg/L	0.000595	-0.00019	mg/L	0.000595 308.92%
Ba 233.527†	3.0	0.00127	mg/L	0.000753	0.00127	mg/L	0.000753 59.08%
Be 313.042†	-4.1	-0.00001	mg/L	0.000030	-0.00001	mg/L	0.000030 225.45%
Ca 317.933†	46.3	0.00705	mg/L	0.000294	0.00705	mg/L	0.000294 4.17%
Cd 228.802†	-3.6	-0.00018	mg/L	0.000124	-0.00018	mg/L	0.000124 69.64%
Co 228.616†	1.0	0.00005	mg/L	0.000203	0.00005	mg/L	0.000203 400.48%
Cr 267.716†	2.8	0.00094	mg/L	0.001011	0.00094	mg/L	0.001011 107.15%
Cu 324.752†	-93.7	-0.00038	mg/L	0.000243	-0.00038	mg/L	0.000243 63.65%
Fe 273.955†	2.4	0.00428	mg/L	0.000919	0.00428	mg/L	0.000919 21.49%
K 766.490†	26.2	0.01225	mg/L	0.002695	0.01225	mg/L	0.002695 22.00%
Mg 279.077†	-0.4	-0.00059	mg/L	0.008228	-0.00059	mg/L	0.008228 >999.9%
Mn 257.610†	-1.4	-0.00008	mg/L	0.000113	-0.00008	mg/L	0.000113 141.04%
Mo 202.031†	3.1	0.00030	mg/L	0.000368	0.00030	mg/L	0.000368 121.69%
Na 589.592†	278.9	0.02052	mg/L	0.002906	0.02052	mg/L	0.002906 14.17%
Na 330.237†	6.9	0.4444	mg/L	0.14765	0.4444	mg/L	0.14765 33.22%
Ni 231.604†	0.5	0.00024	mg/L	0.000629	0.00024	mg/L	0.000629 257.13%
Pb 220.353†	3.1	0.00067	mg/L	0.000342	0.00067	mg/L	0.000342 51.35%
Sb 206.836†	-0.2	-0.00014	mg/L	0.002394	-0.00014	mg/L	0.002394 >999.9%
Se 196.026†	-0.6	-0.00081	mg/L	0.003253	-0.00081	mg/L	0.003253 402.51%
Si 288.158†	-2.4	-0.00216	mg/L	0.004311	-0.00216	mg/L	0.004311 199.28%
Sn 189.927†	-0.6	-0.00034	mg/L	0.000960	-0.00034	mg/L	0.000960 279.38%
Sr 421.552†	43.4	0.00007	mg/L	0.000018	0.00007	mg/L	0.000018 26.90%
Ti 334.903†	-5.0	-0.00045	mg/L	0.000431	-0.00045	mg/L	0.000431 95.58%
Tl 190.801†	1.2	0.00116	mg/L	0.000394	0.00116	mg/L	0.000394 33.93%
V 292.402†	-2.2	-0.00002	mg/L	0.000161	-0.00002	mg/L	0.000161 >999.9%
Zn 206.200†	2.2	0.00131	mg/L	0.000390	0.00131	mg/L	0.000390 29.73%

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		Std.Dev.	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. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			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. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				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%





**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](mailto:cheronneo@arilabs.com)  
[www.arilabs.com](http://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

Turn-around Requested: Standard  
 Phone: 206-287-9130  
 ARI Assigned Number: ATSP  
 ARI Client Company: Anchor OEA  
 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		PATHS (SIM)
PG-SMA2-2-MUS-COC-160104	01/07/16	1400	Tissue	1	X	X	X	X	X	Composite tissue 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	01/04/16	1600		1	X	X	X	X	X	"
PG-SMA2-4-MUS-COC-160105	01/05/16	0940	tissue	1	X	X	X	X	X	"
Comments/Special Instructions Rinse, shuck & composite, homogenize all mussels for each sample.										
Relinquished by: <u>J. Florer</u> (Signature) Printed Name: <u>Joanna Florer</u> Company: <u>Anchor OEA</u> Date & Time: <u>1/6/15 1033</u>					Received by: <u>Tyler Rankin</u> (Signature) Printed Name: <u>Tyler Rankin</u> Company: <u>ARI</u> Date & Time: <u>1/6/15 1033</u>					

**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: \_\_\_\_\_

			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: \_\_\_\_\_ S-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: 1128

*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: \_\_\_\_\_

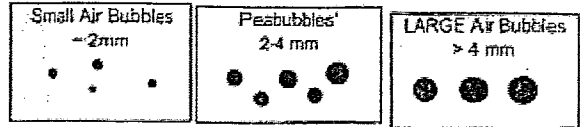
Samples Logged by: W Date: 11/2/15 Time: 1120

**\*\* 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 &gt; 4 mm</p>	<p>Small → "sm" (&lt; 2 mm)</p> <p>Peabubbles → "pb" (2 to &lt; 4 mm)</p> <p>Large → "lg" (4 to &lt; 6 mm)</p> <p>Headspace → "hs" (&gt; 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  $\leq 5$  times the Reporting Limit and the replicate control limit defaults to  $\pm 1$  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	----Matrix Spike---- RPD	--Blank Spike / LCS-- %Rec	--Blank Spike / LCS-- 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_CJAR2-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	<del>1.18</del> <sup>4/11/8</sup>	<del>12.24</del> <sup>12</sup>	3.10			NR
2. AVB5B	1.16	12.17 <sup>7/15</sup>	3.07			NR
3. AVB5C	1.16	12.65	<del>2.84</del> <sup>2/2/16</sup>	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](http://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  
L5N 2L8  
1-800-668-0639  
[www.maxxamanalytics.com](http://www.maxxamanalytics.com)

# 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 <sup>13</sup>C-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  
L5N 2L8  
1-800-668-0639  
[www.maxxamanalytics.com](http://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
<b>PCB Congeners in Tissue (1668A)</b>						
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](http://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

RDL = Reportable Detection Limit

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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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**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

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(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

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

**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
<b>Surrogate Recovery (%)</b>									
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

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) 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

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

**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	
			22'33'466'-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	
			22'33'566'-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).

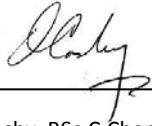
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(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](http://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, not withstanding 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	12:48
				Time	14:25

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](http://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](http://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

✓  
α

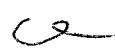
EPA 1668 Initial Calibration

INSTRUMENT: Ultima 2

CALIBRATION DATE: 2016/02/11

M2160211AS002 M2160211AS003 M2160211AS004 M2160211AS005 M2160211AS006

	CS1	CS2	CS3	CS4	CS5			
	Relative Response Factors					Mean RRF	RRF SD	%RSD
<b>Natives</b>								
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	0.910664	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%
<b>Internal Standard</b>								
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	1.906777	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	2.108839	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	1.886246	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%
<b>Cleanup Standard</b>								
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%
<b>Field Spike</b>								
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

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
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

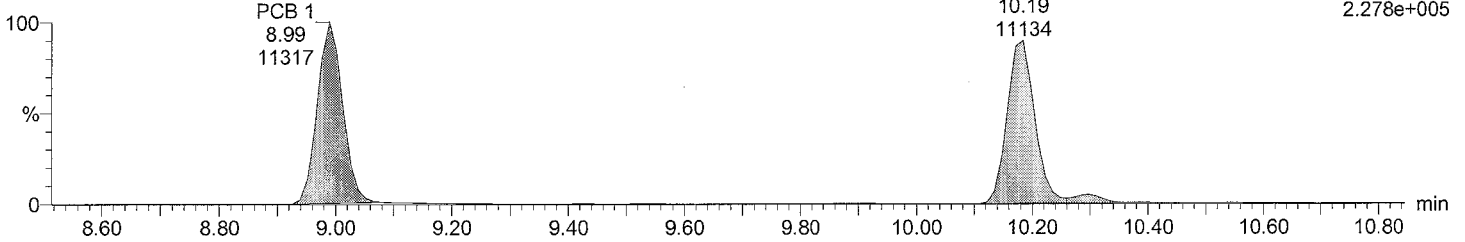
Time: 18:43:05

Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

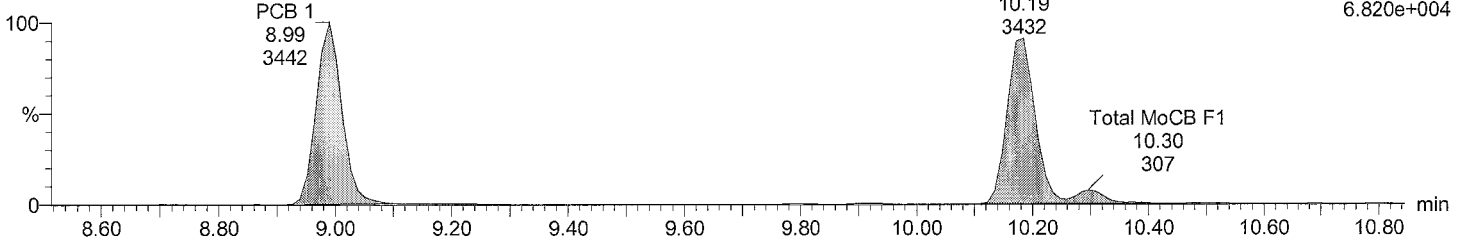
F1:SIR of 10 channels,EI+  
188.0393  
2.278e+005



Total MoCB F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

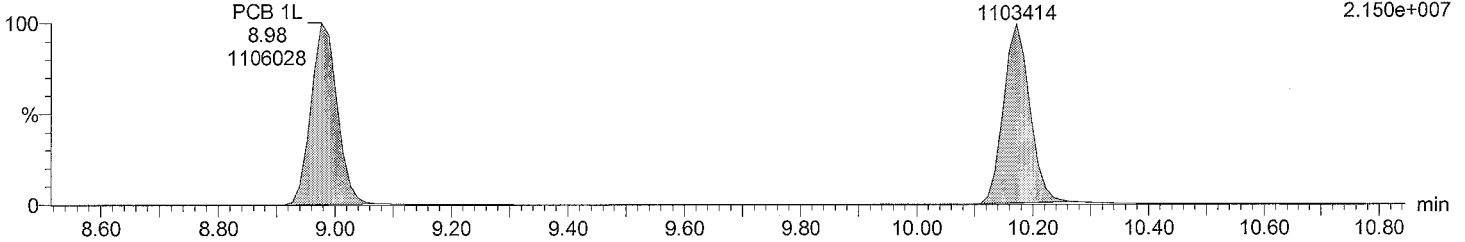
F1:SIR of 10 channels,EI+  
190.0363  
6.820e+004



Total MoCB labeled F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

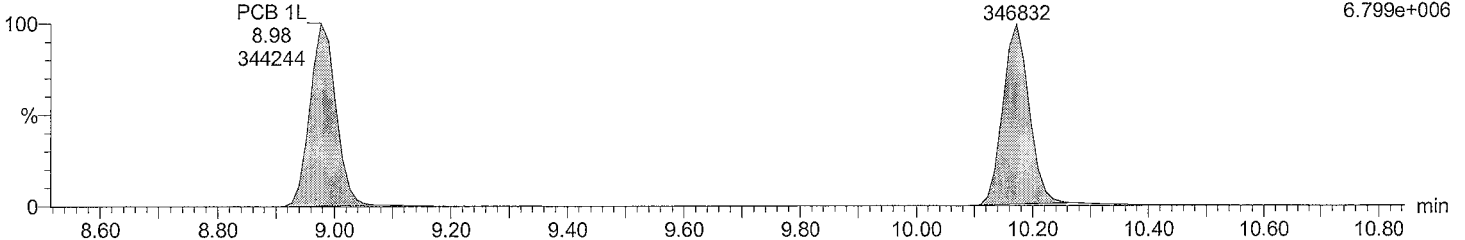
F1:SIR of 10 channels,EI+  
200.0795  
2.150e+007



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

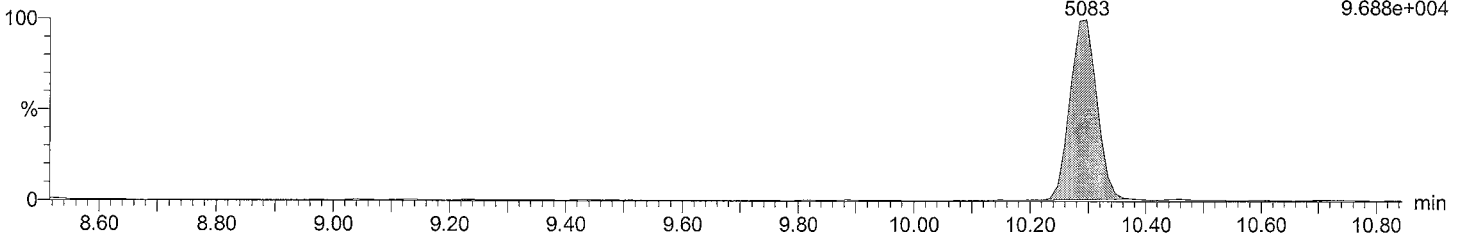
Time: 18:43:05

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

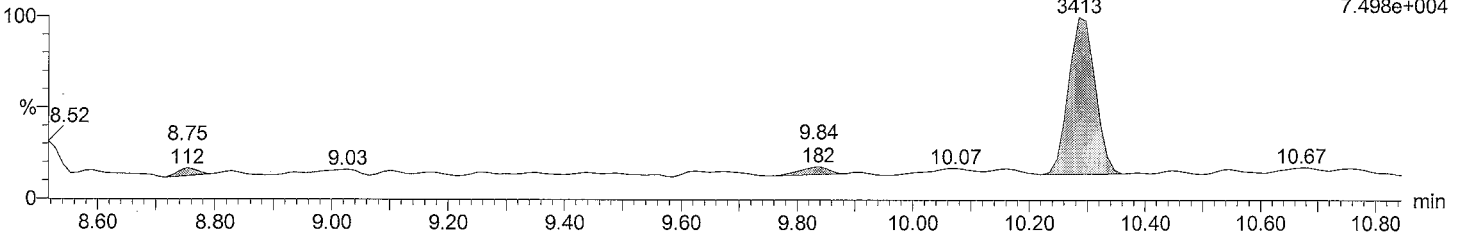
PCB 4  
10.30  
5083  
F1:SIR of 10 channels,EI+  
222.0003  
9.688e+004



Total DiCB F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

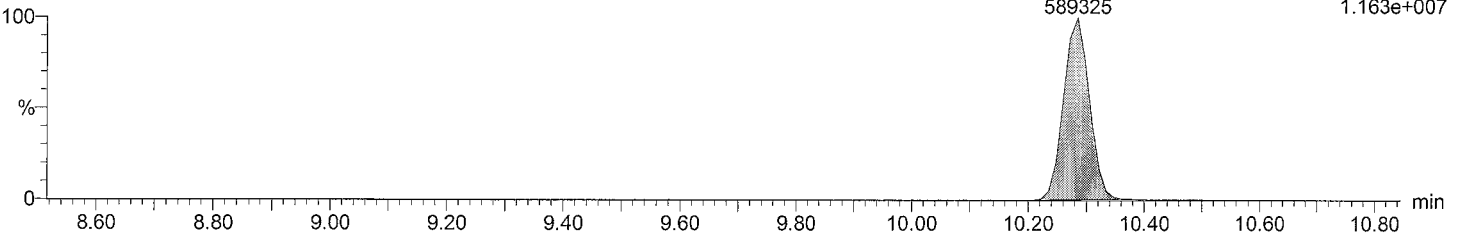
PCB 4  
10.28  
3413  
F1:SIR of 10 channels,EI+  
223.9974  
7.498e+004



Total DiCB labeled F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

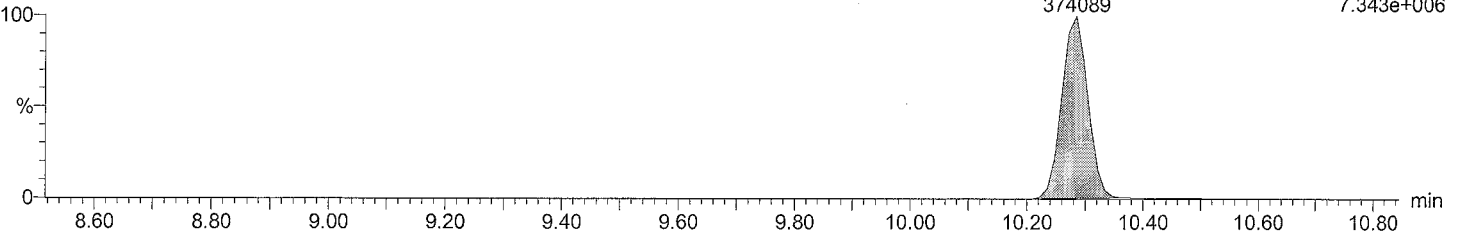
PCB 4L  
10.28  
589325  
F1:SIR of 10 channels,EI+  
234.0406  
1.163e+007



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

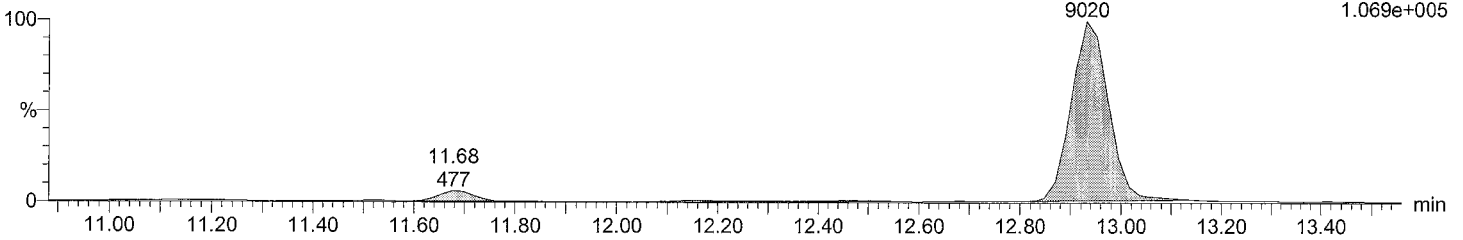
Time: 18:43:05

Instrument: Autospec-UltimaE

Total DiCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

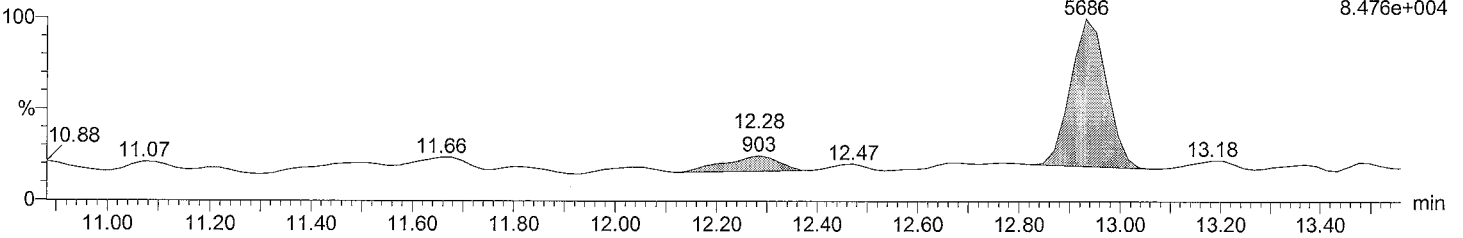
PCB 15  
12.93  
9020  
F2:SIR of 16 channels,EI+  
222.0003  
1.069e+005



Total DiCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

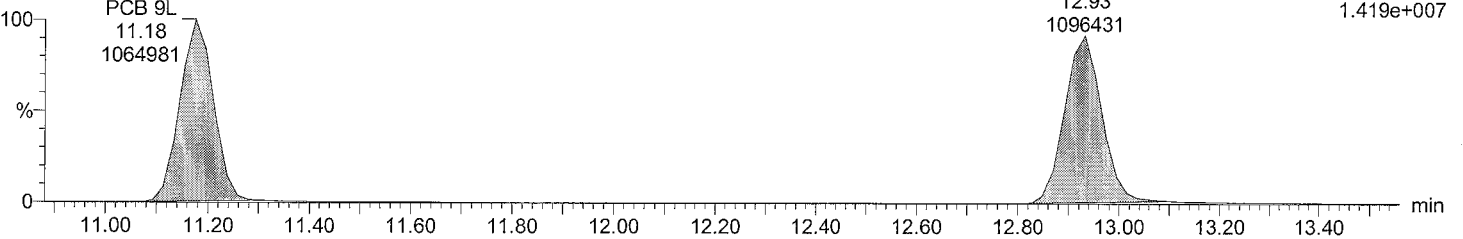
PCB 15  
12.93  
5686  
F2:SIR of 16 channels,EI+  
223.9974  
8.476e+004



Total DiCB labeled F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

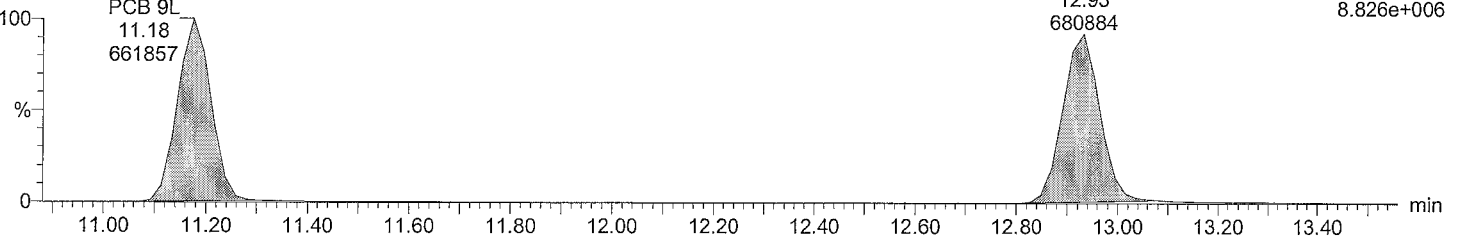
PCB 15L  
12.93  
1096431  
F2:SIR of 16 channels,EI+  
234.0406  
1.419e+007



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

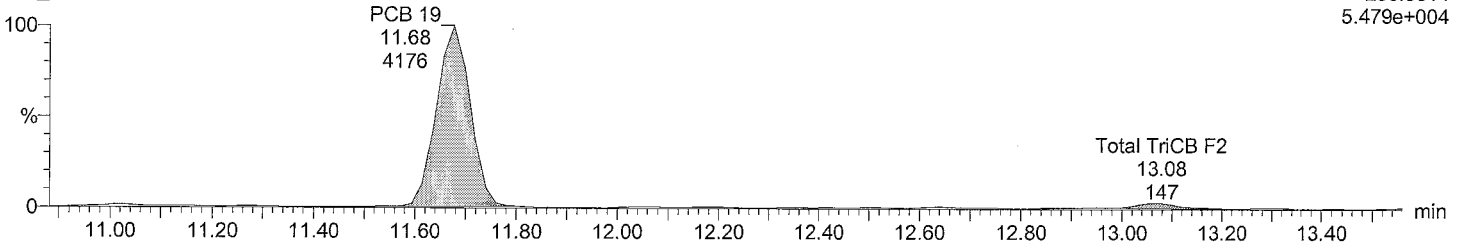
Time: 18:43:05

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

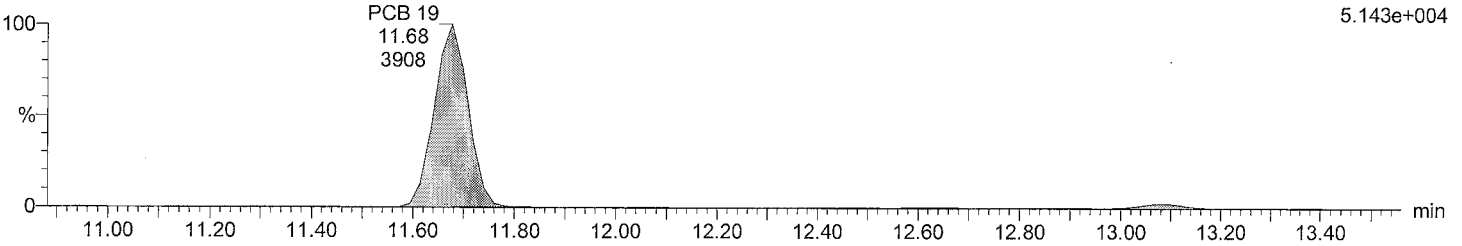
F2:SIR of 16 channels,EI+  
255.9614  
5.479e+004



Total TriCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

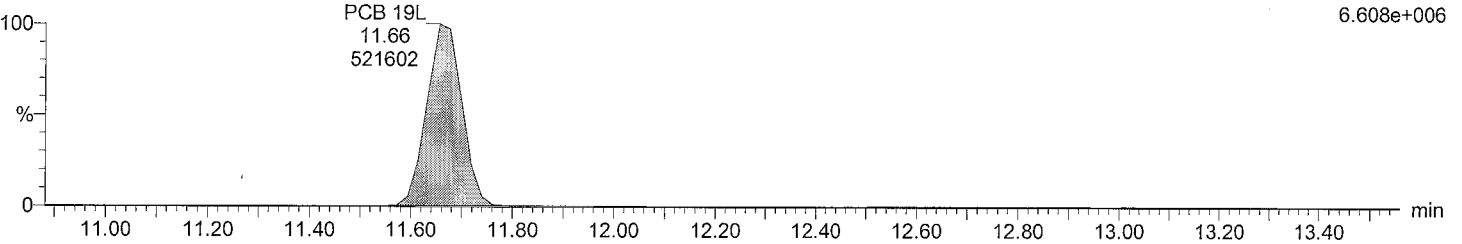
F2:SIR of 16 channels,EI+  
257.9584  
5.143e+004



Total TriCB labeled F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

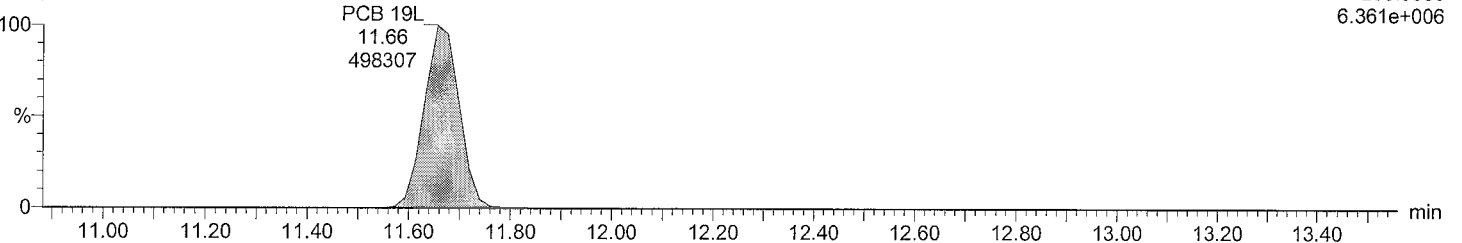
F2:SIR of 16 channels,EI+  
268.0016  
6.608e+006



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\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

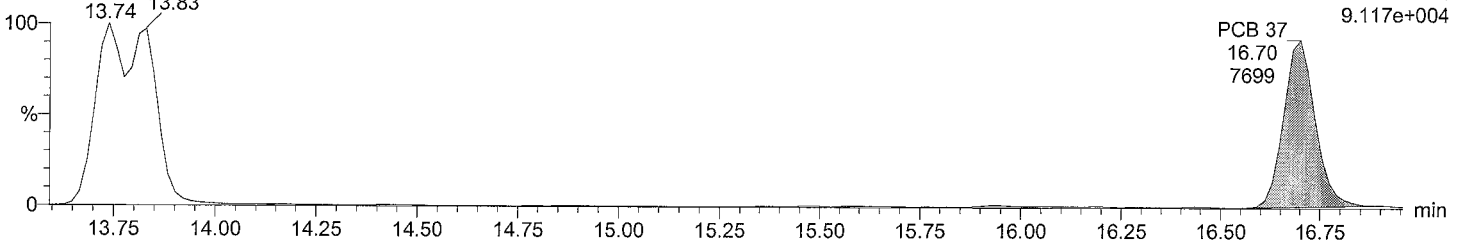
Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
255.9614  
9.117e+004

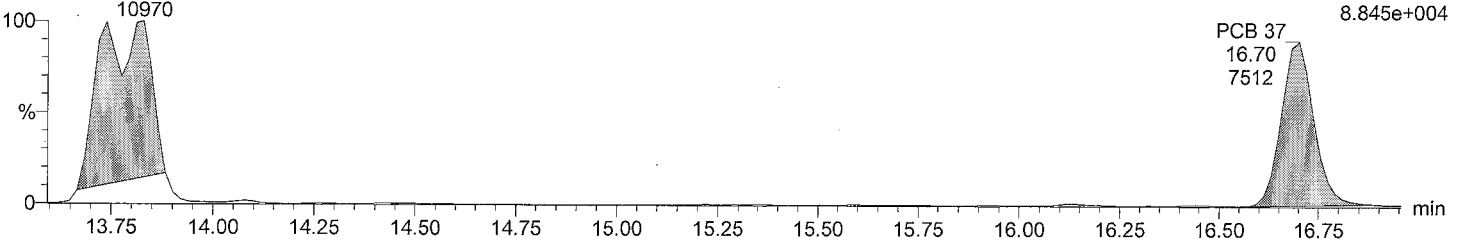


Total TriCB F3

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
257.9584  
8.845e+004

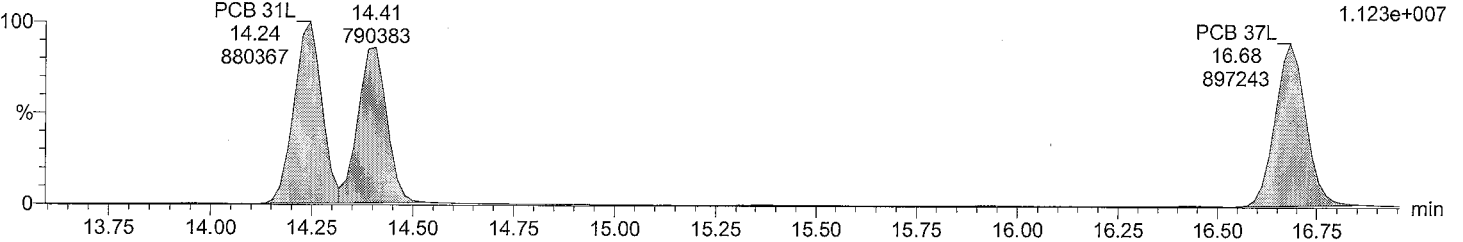


Total TriCB labeled F3

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
268.0016  
1.123e+007

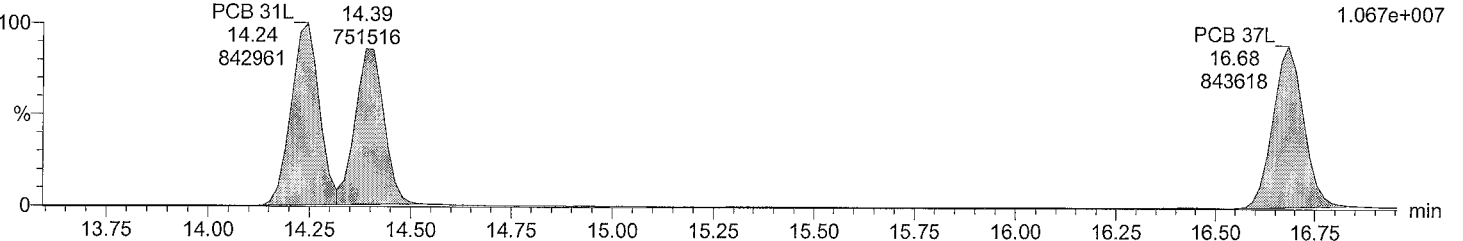


Total TriCB labeled F3

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
269.9986  
1.067e+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: CS1\_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

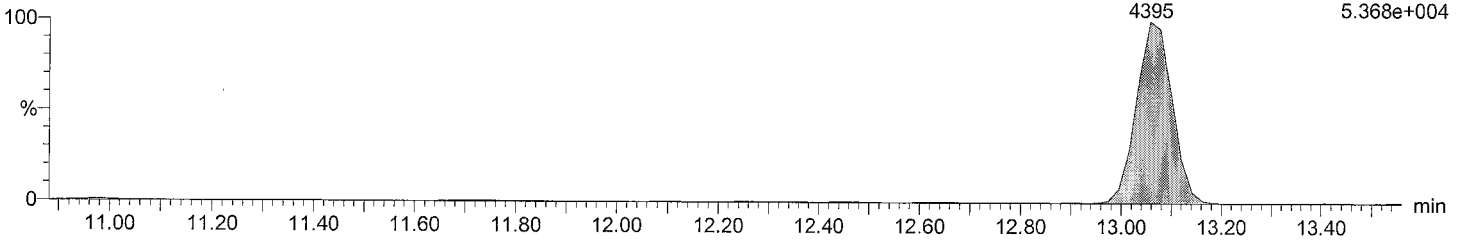
Time: 18:43:05

Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

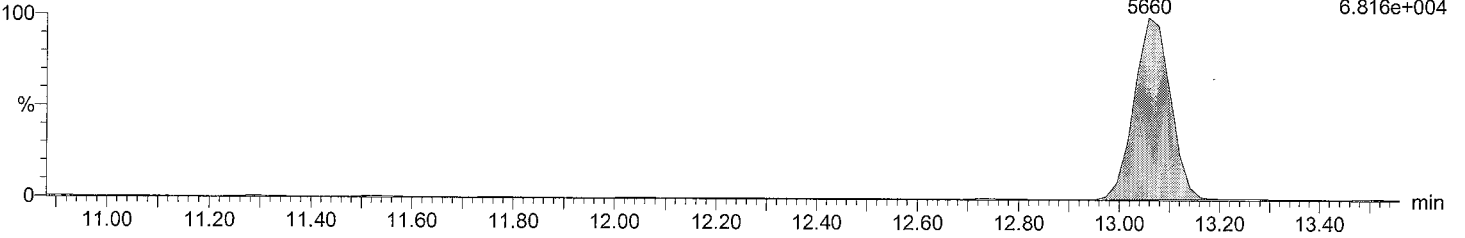
PCB 54 F2:SIR of 16 channels,EI+  
13.06 289.9224  
4395 5.368e+004



Total TeCB F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

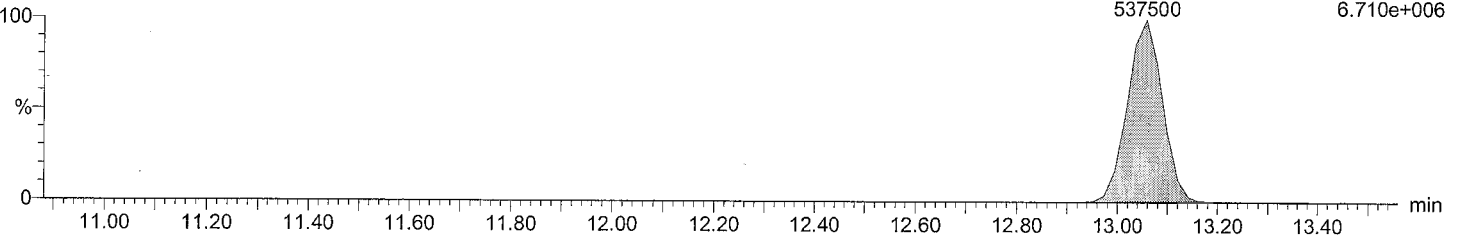
PCB 54 F2:SIR of 16 channels,EI+  
13.06 291.9194  
5660 6.816e+004



Total TeCB labeled F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

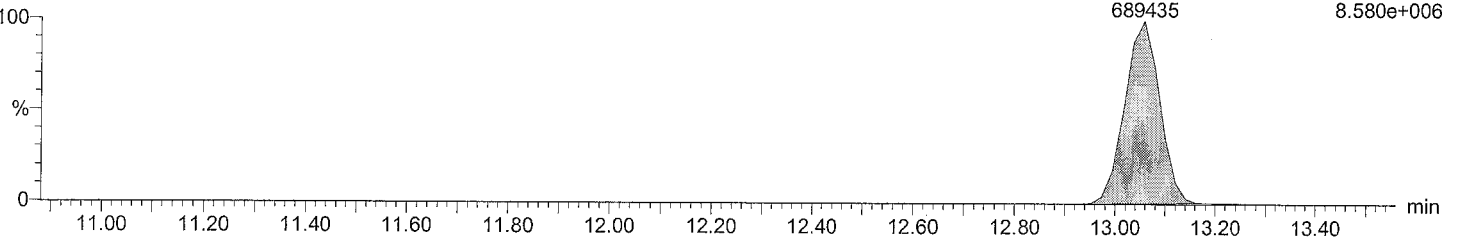
PCB 54L F2:SIR of 16 channels,EI+  
13.06 301.9626  
537500 6.710e+006



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

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 F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

Total TeCB F3

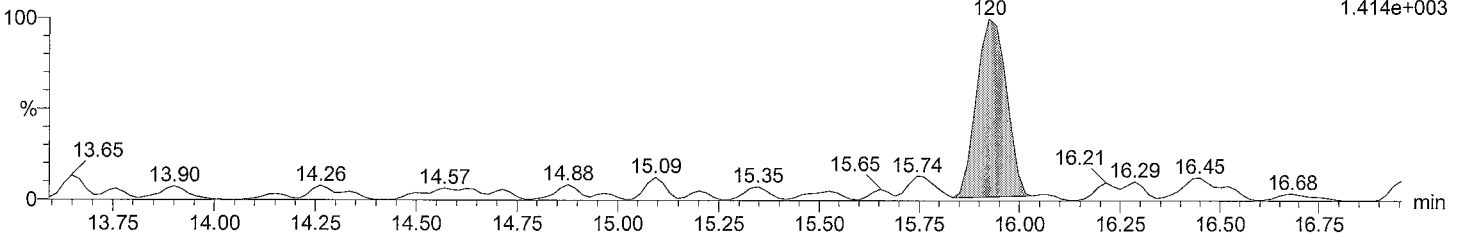
F3:SIR of 14 channels,EI+

15.92

289.9224

120

1.414e+003



Total TeCB F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

Total TeCB F3

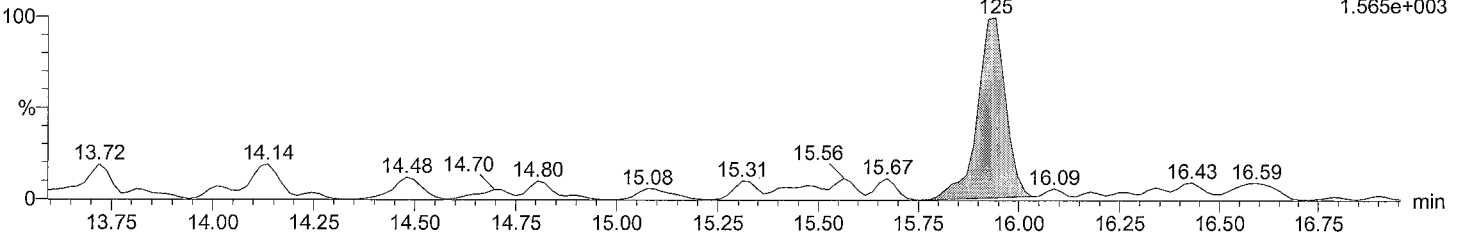
F3:SIR of 14 channels,EI+

15.94

291.9194

125

1.565e+003



Total TeCB labeled F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 52L

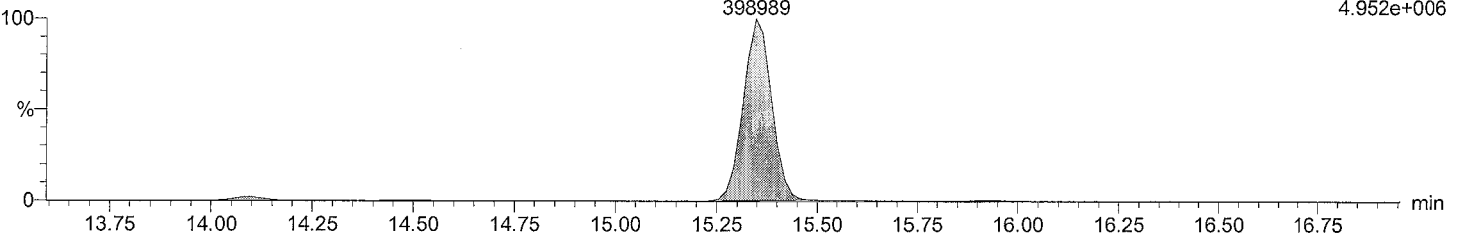
F3:SIR of 14 channels,EI+

15.35

301.9626

398989

4.952e+006



Total TeCB labeled F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 52L

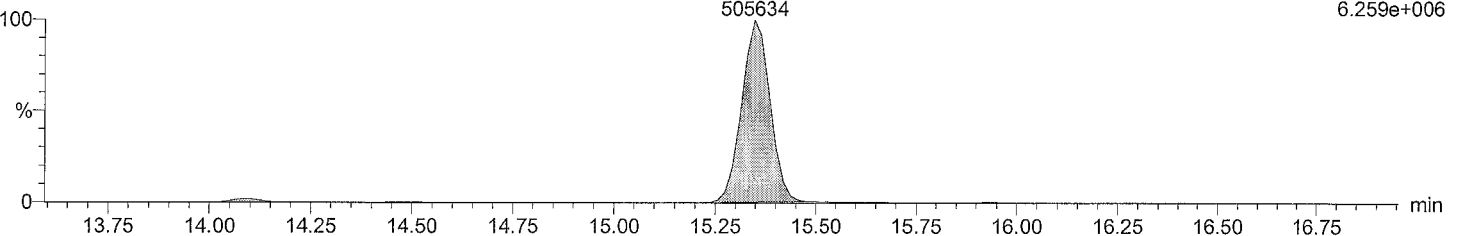
F3:SIR of 14 channels,EI+

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

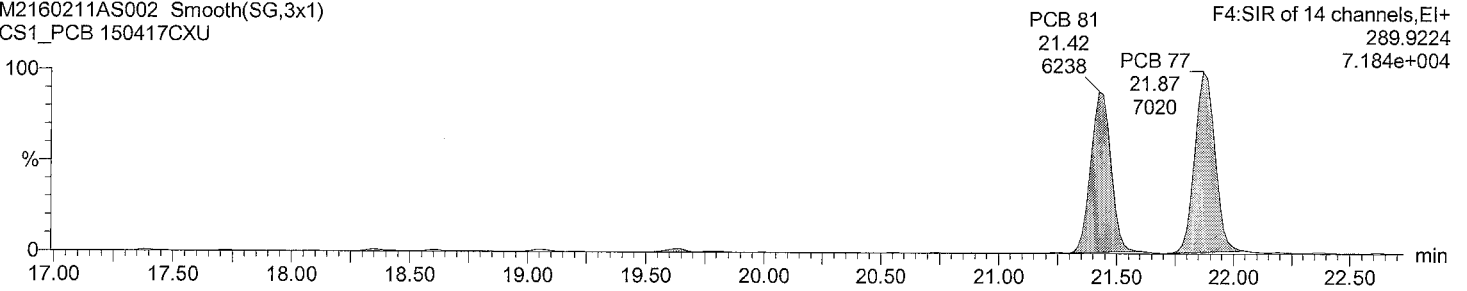
Date: 11-FEB-2016

Time: 18:43:05

Instrument: Autospec-UltimaE

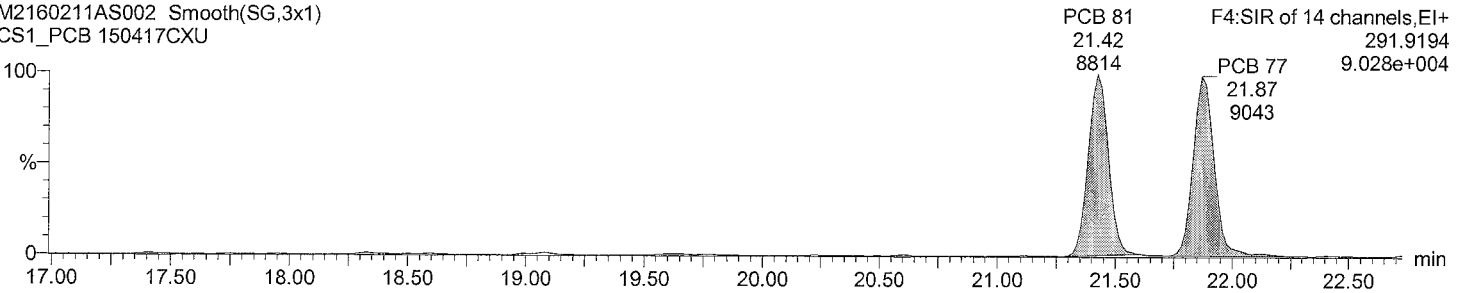
Total TeCB F4

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU



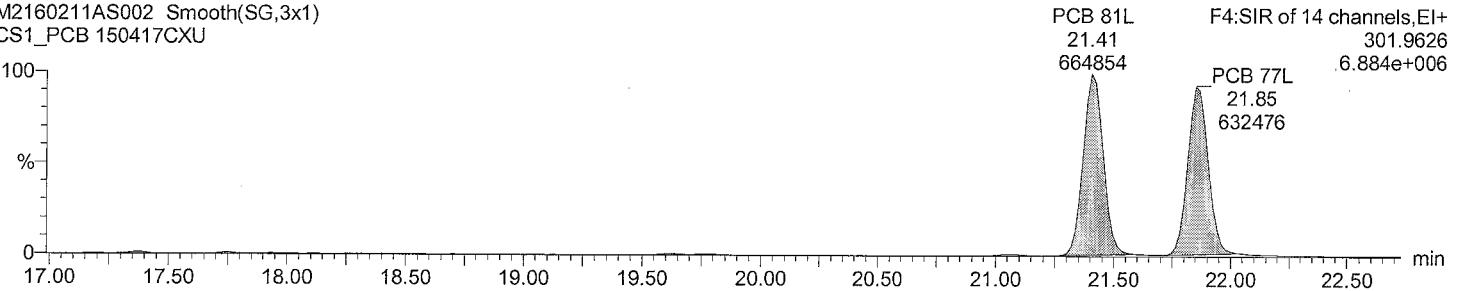
Total TeCB F4

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU



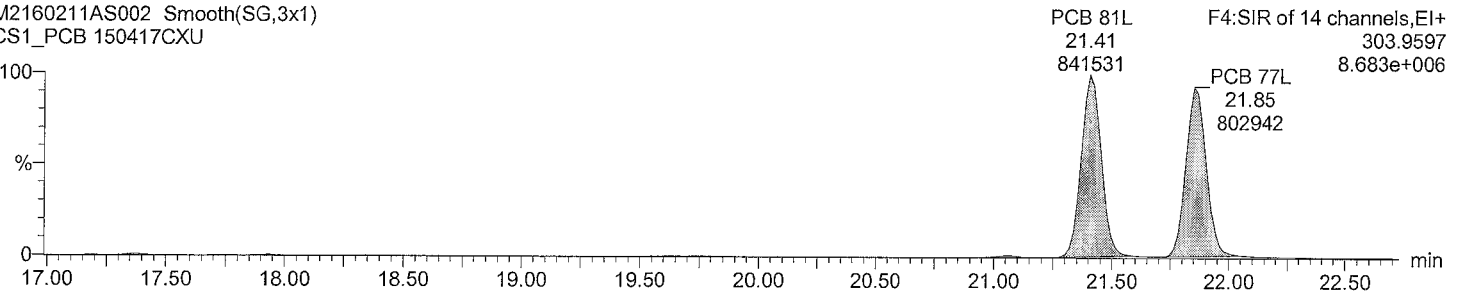
Total TeCB labeled F4

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

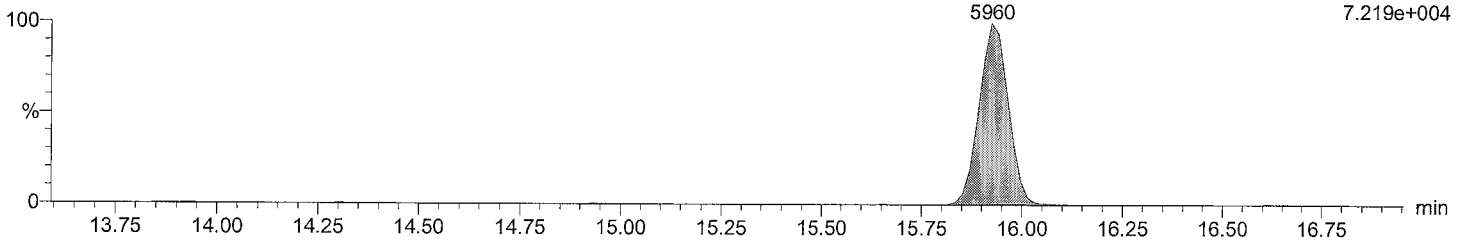
Instrument: Autospec-UltimaE

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

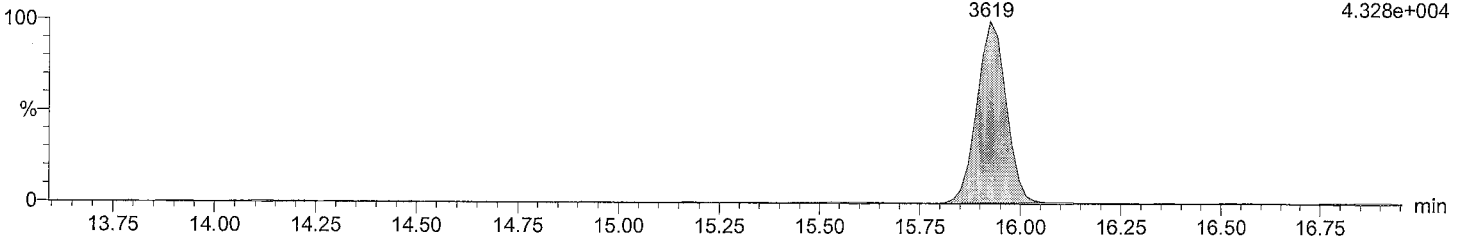


Total PeCB F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 104  
15.92  
3619

F3:SIR of 14 channels,EI+  
327.8775  
4.328e+004

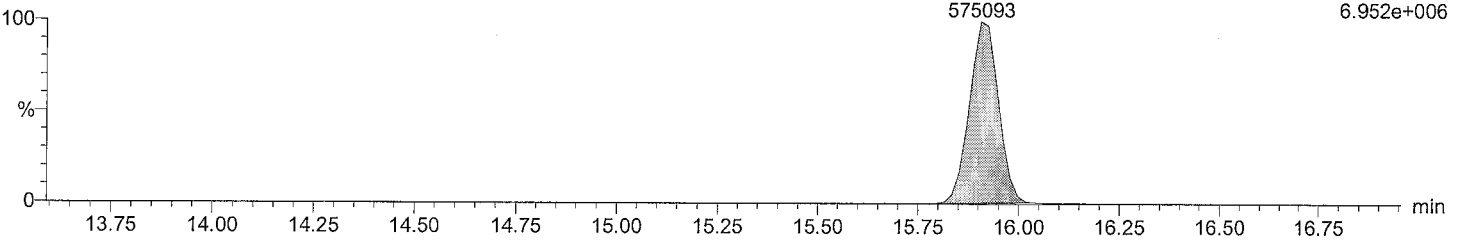


Total PeCB labeled F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 104L  
15.91  
575093

F3:SIR of 14 channels,EI+  
337.9207  
6.952e+006

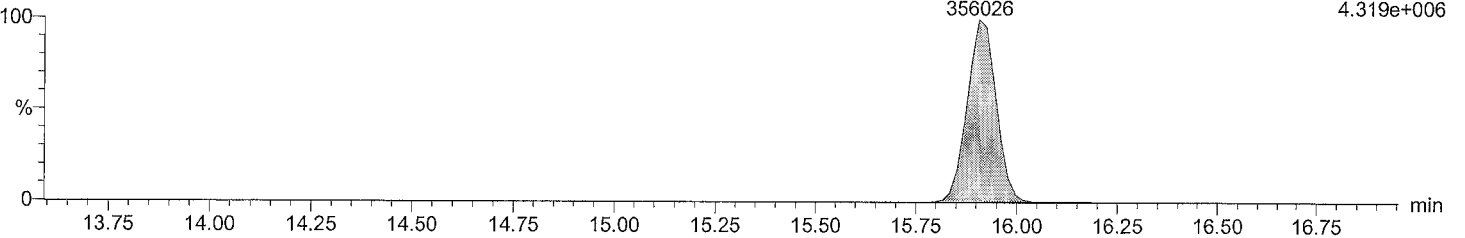


Total PeCB labeled F3

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

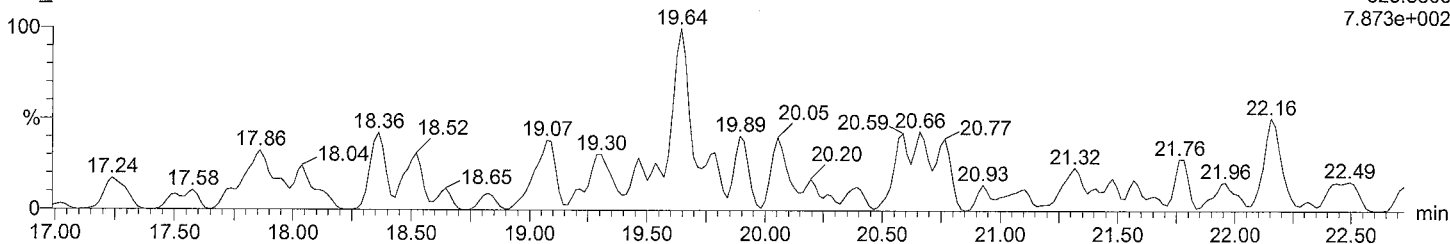
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F4:SIR of 14 channels,EI+

325.8805

7.873e+002



Total PeCB F4

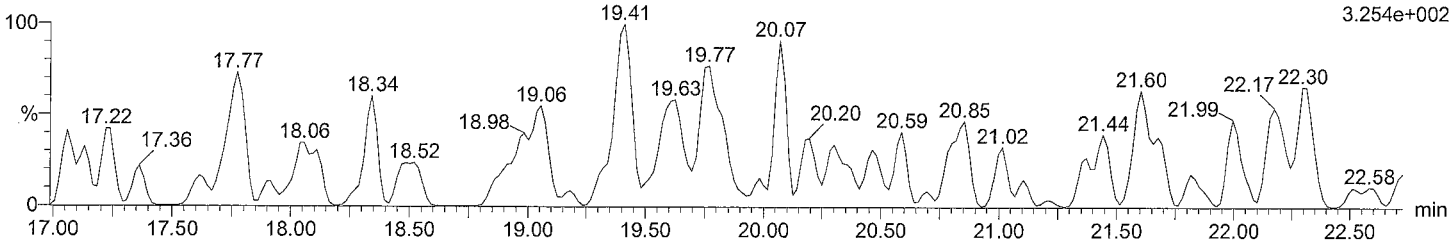
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F4:SIR of 14 channels,EI+

327.8775

3.254e+002



Total PeCB labeled F4

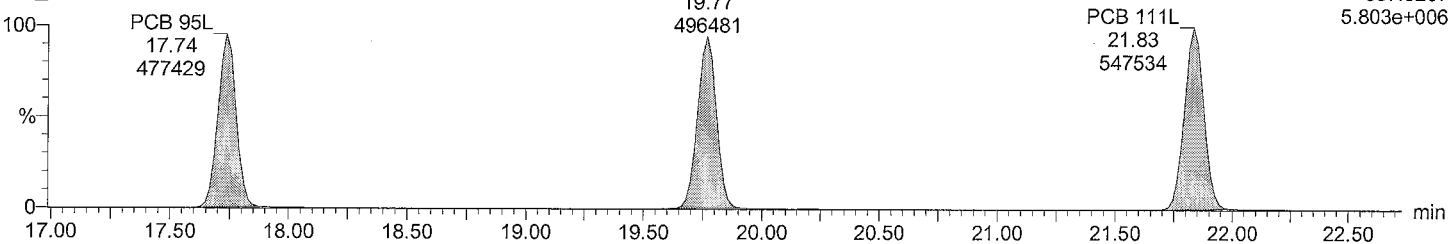
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F4:SIR of 14 channels,EI+

337.9207

5.803e+006



Total PeCB labeled F4

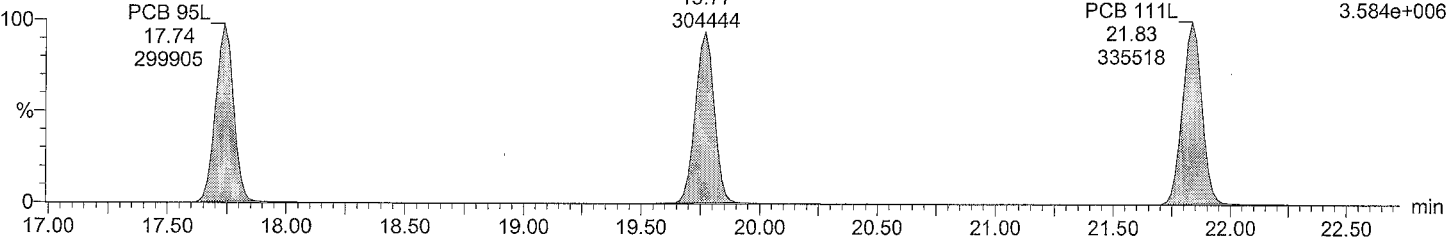
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F4:SIR of 14 channels,EI+

339.9178

3.584e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\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

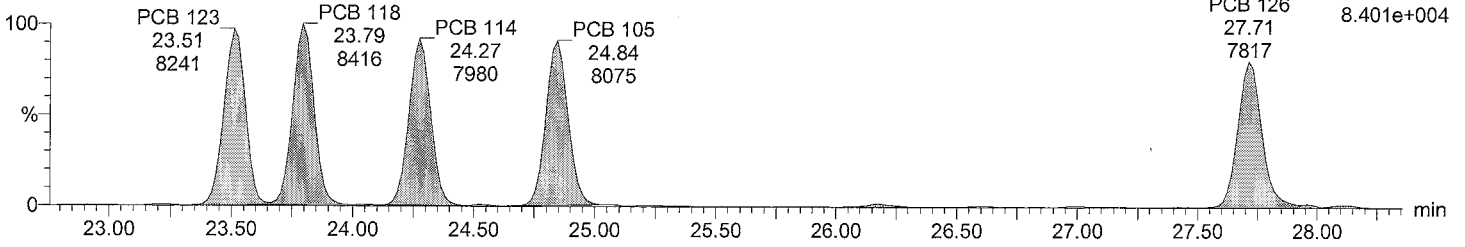
Time: 18:43:05

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

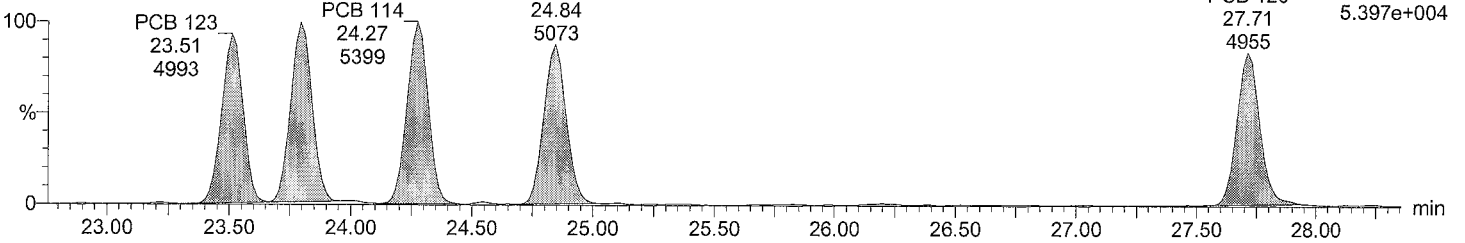


F5:SIR of 14 channels,EI+  
325.8805  
8.401e+004

Total PeCB F5

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

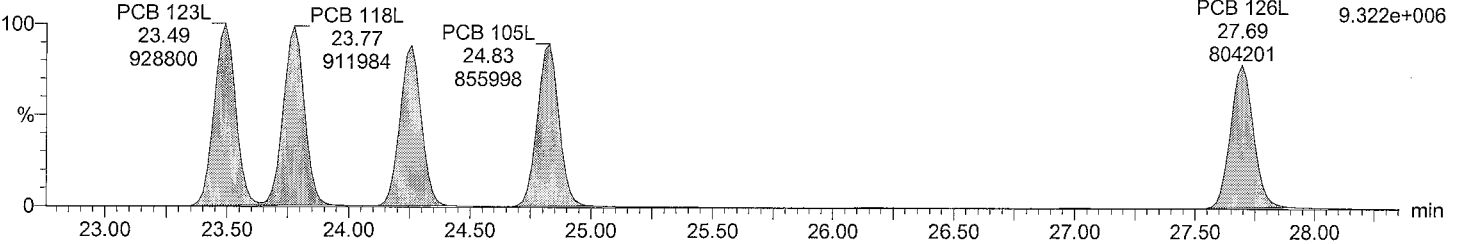


F5:SIR of 14 channels,EI+  
327.8775  
5.397e+004

Total PeCB labeled F5

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

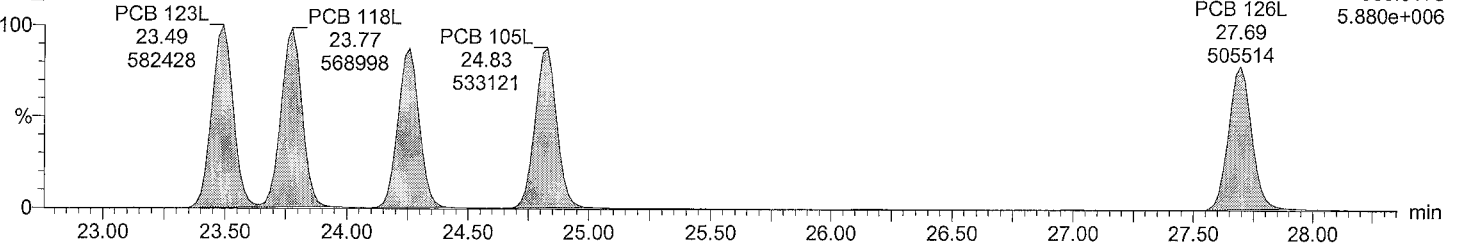


F5:SIR of 14 channels,EI+  
337.9207  
9.322e+006

Total PeCB labeled F5

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU



F5:SIR of 14 channels,EI+  
339.9178  
5.880e+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

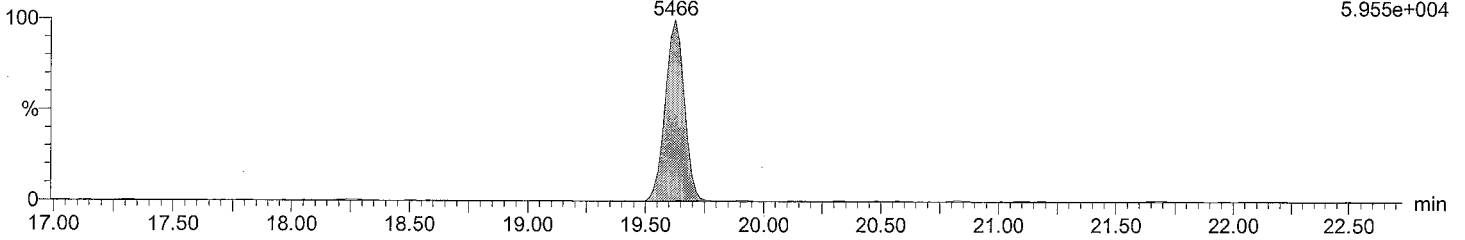
Instrument: Autospec-UltimaE

Total 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

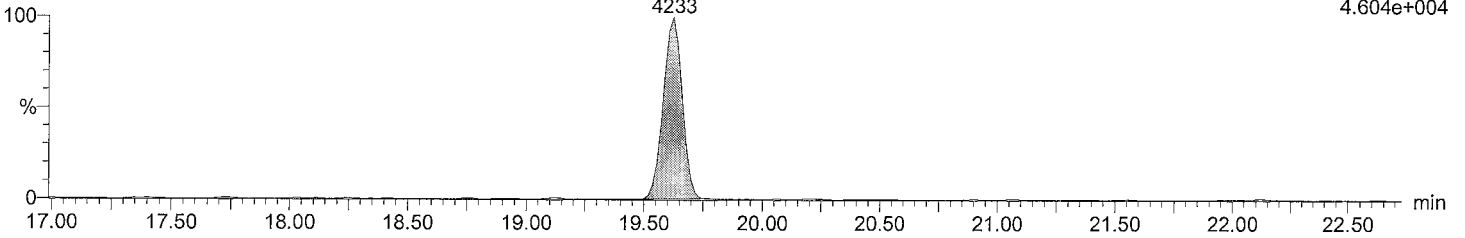


Total HxCB F4

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 155  
19.63  
4233

F4:SIR of 14 channels,EI+  
361.8385  
4.604e+004

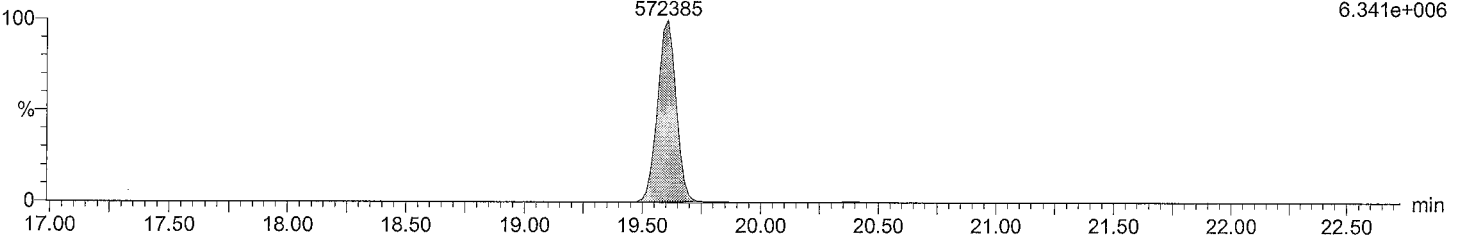


Total HxCB labeled F4

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

PCB 155L  
19.61  
572385

F4:SIR of 14 channels,EI+  
371.8817  
6.341e+006

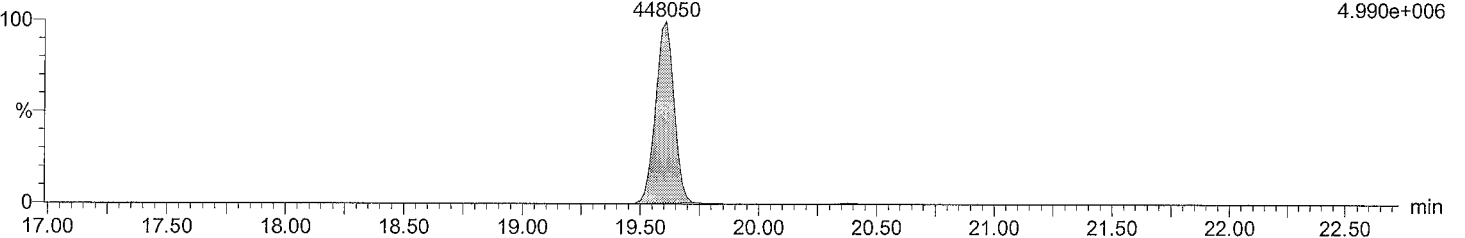


Total HxCB labeled F4

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

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

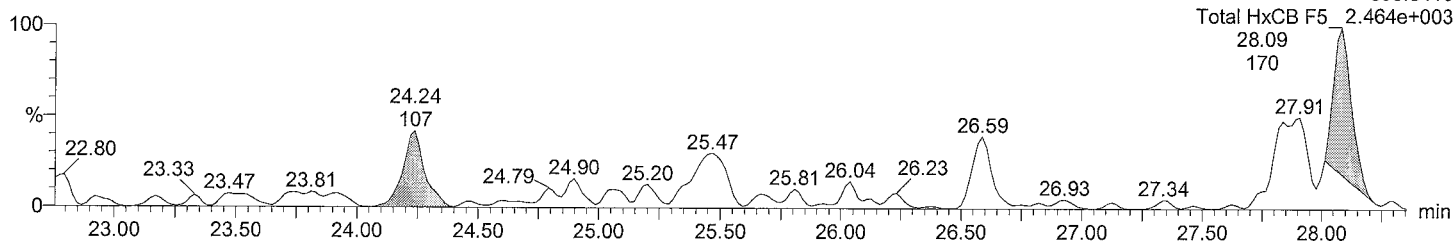
Total HxCB F5

M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
359.8415

Total HxCB F5 2.464e+003



Total HxCB F5

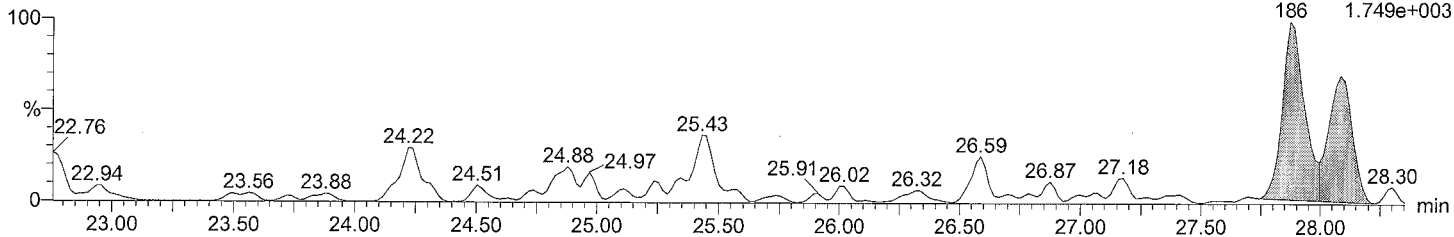
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+

27.87 361.8385

186 1.749e+003



Total HxCB labeled F5

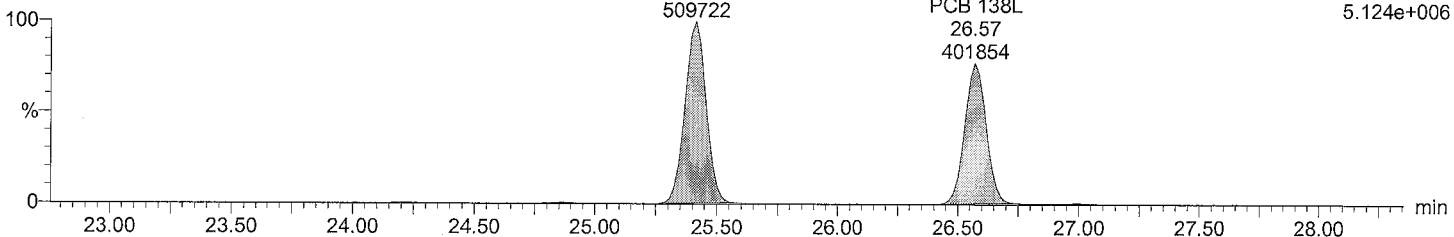
M2160211AS002 Smooth(SG,3x1)

CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+

371.8817

5.124e+006



Total HxCB labeled F5

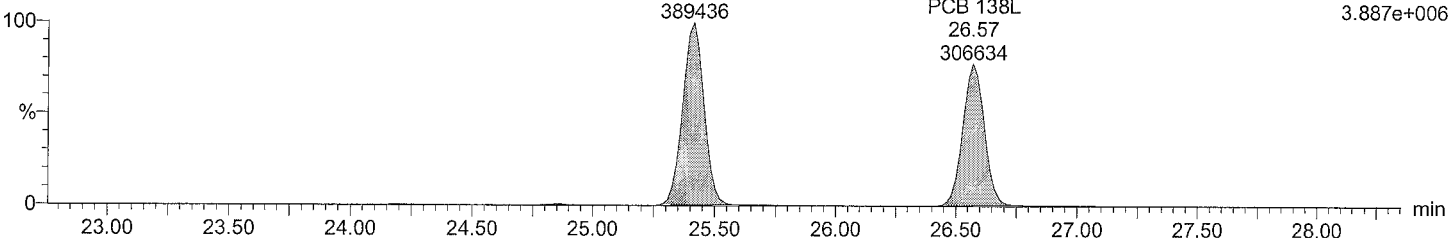
M2160211AS002 Smooth(SG,3x1)

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

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS1\_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

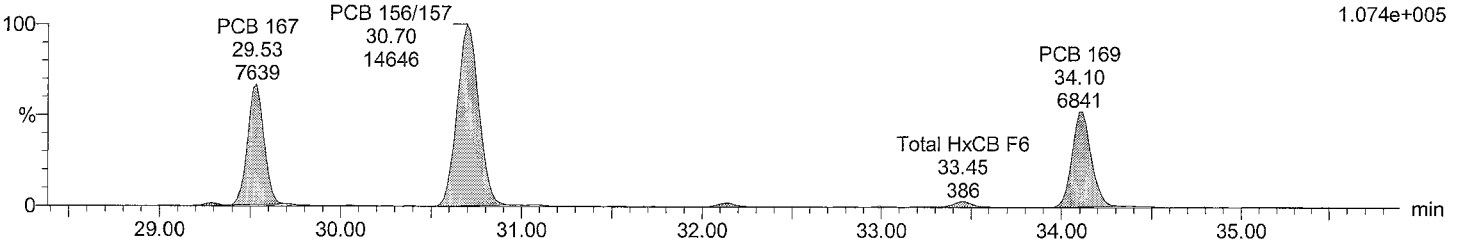
Time: 18:43:05

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

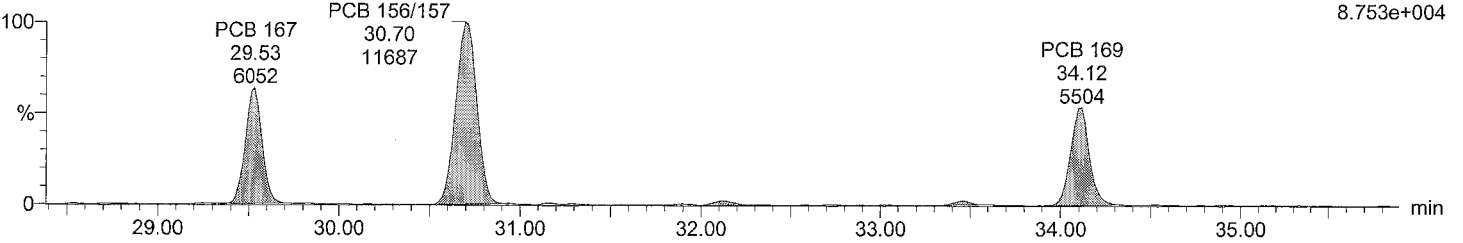
F6:SIR of 14 channels,EI+  
359.8415  
1.074e+005



Total HxCB F6

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

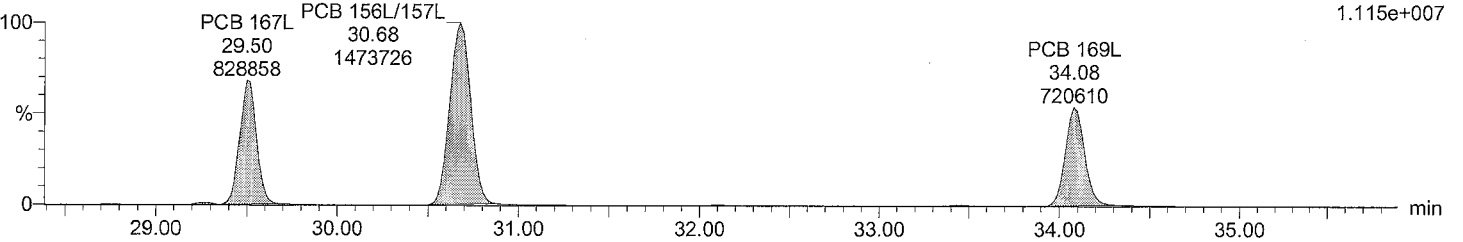
F6:SIR of 14 channels,EI+  
361.8385  
8.753e+004



Total HxCB labeled F6

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

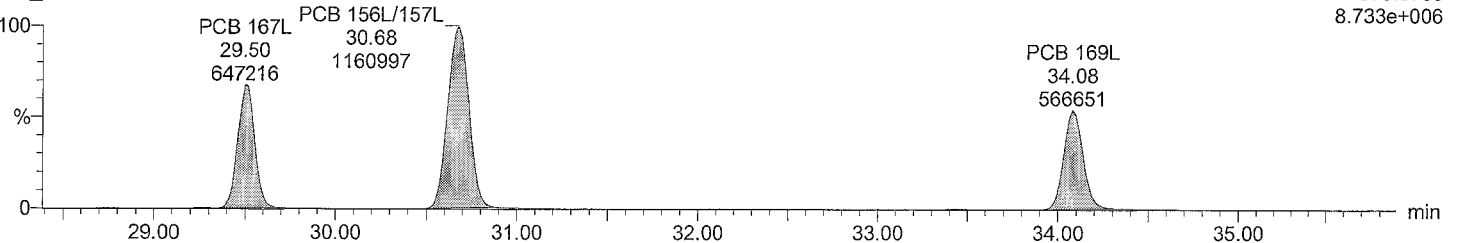
F6:SIR of 14 channels,EI+  
371.8817  
1.115e+007



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

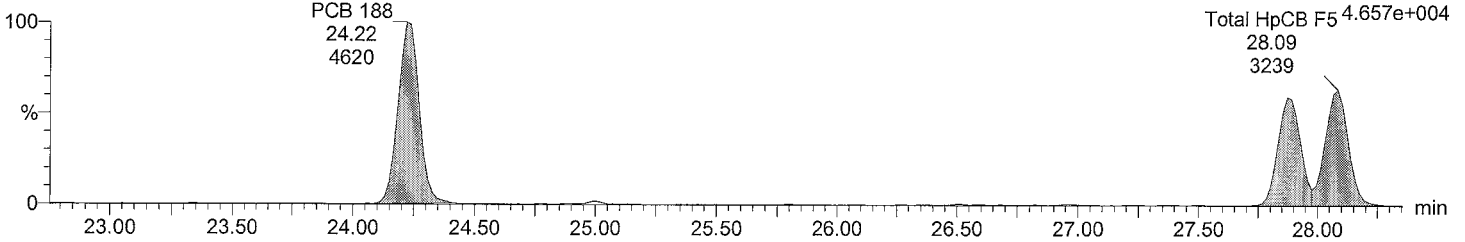
Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
393.8025

Total HpCB F5 4.657e+004

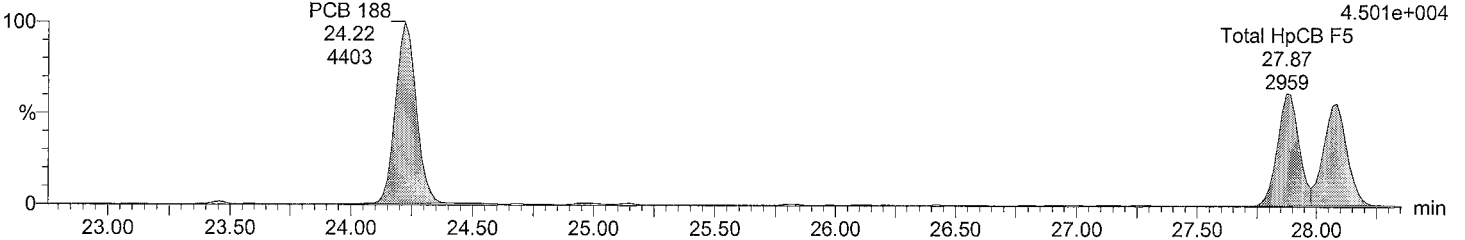


Total HpCB F5

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
395.7995

Total HpCB F5 4.501e+004

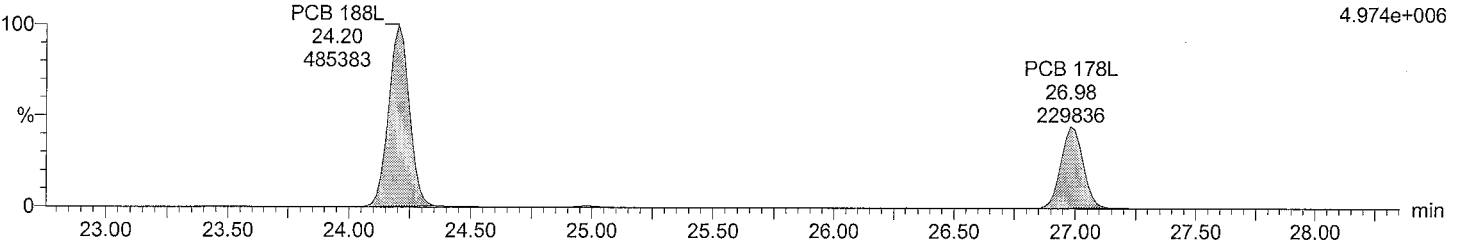


Total HpCB labeled F5

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
405.8428

4.974e+006

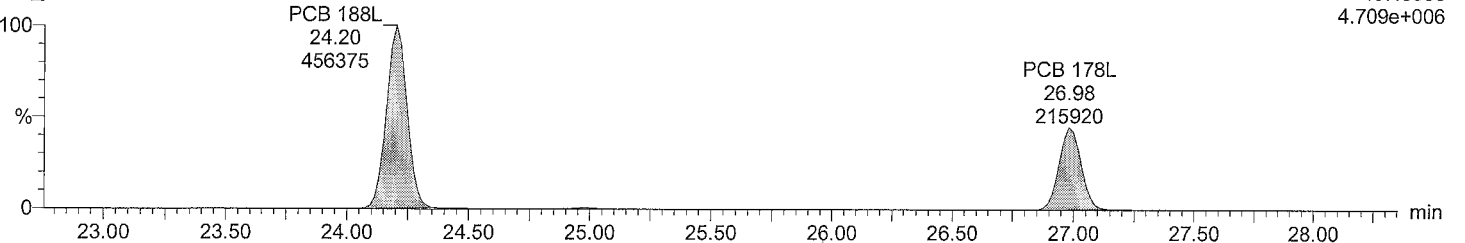


Total HpCB labeled F5

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

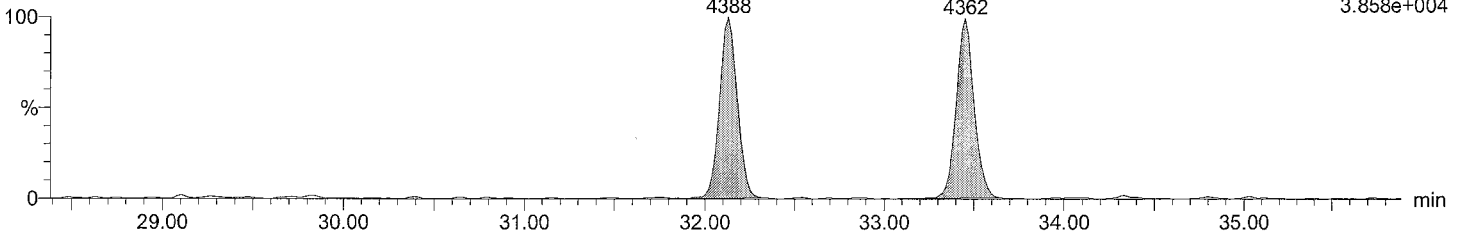
33.45

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

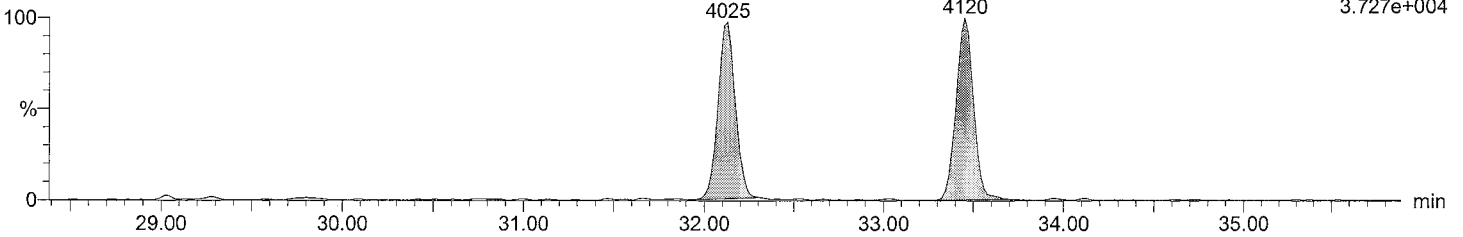
33.45

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

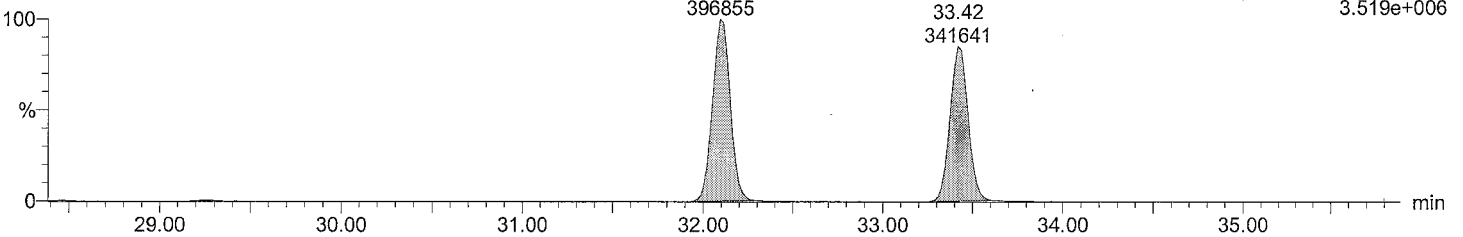
33.42

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

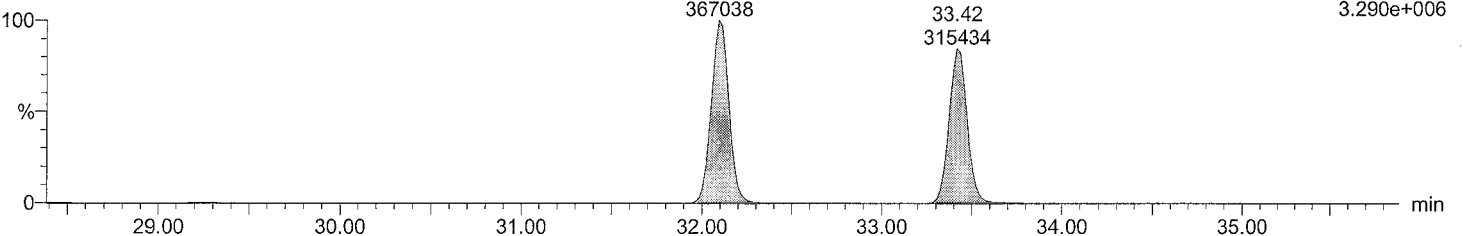
33.42

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

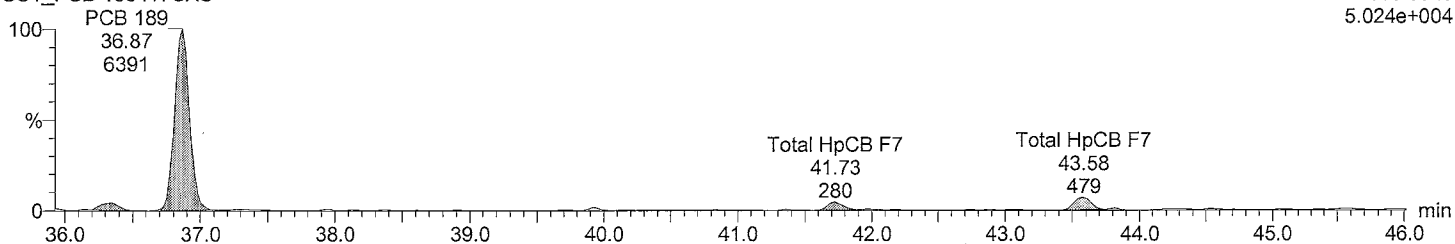
Time: 18:43:05

Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

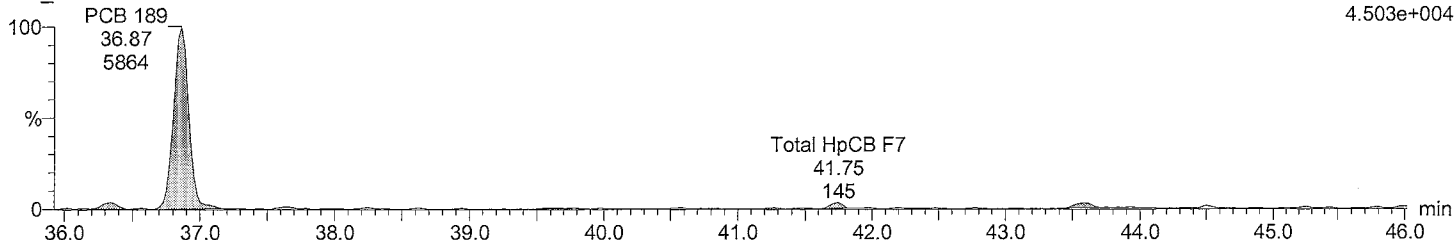
F7:SIR of 18 channels,EI+  
393.8025  
5.024e+004



Total HpCB F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

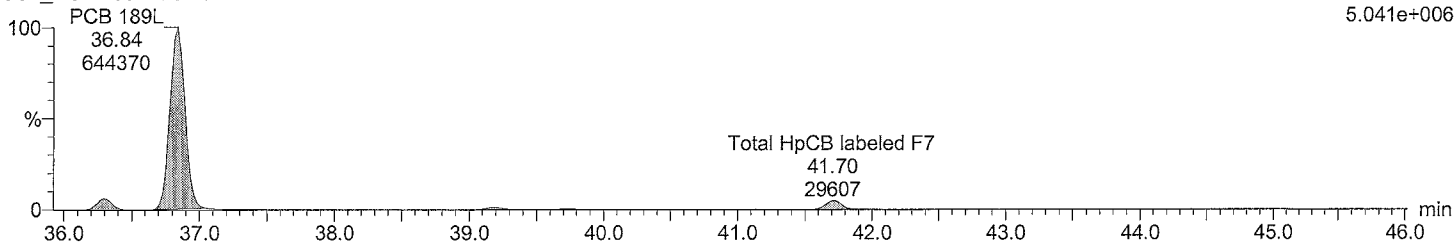
F7:SIR of 18 channels,EI+  
395.7995  
4.503e+004



Total HpCB labeled F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

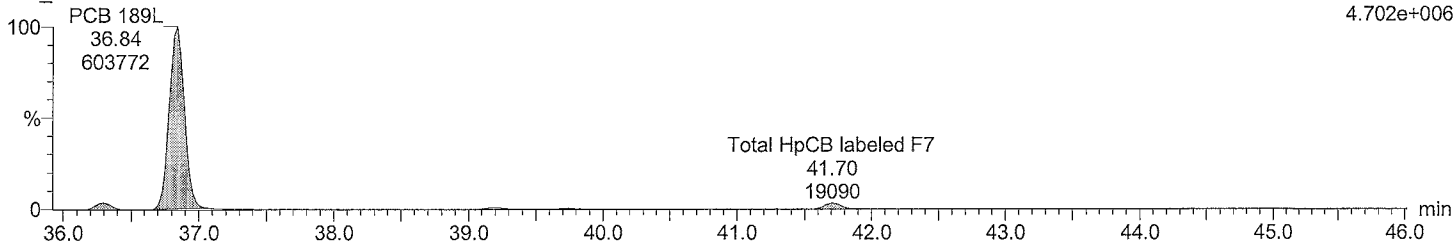
F7:SIR of 18 channels,EI+  
405.8428  
5.041e+006



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

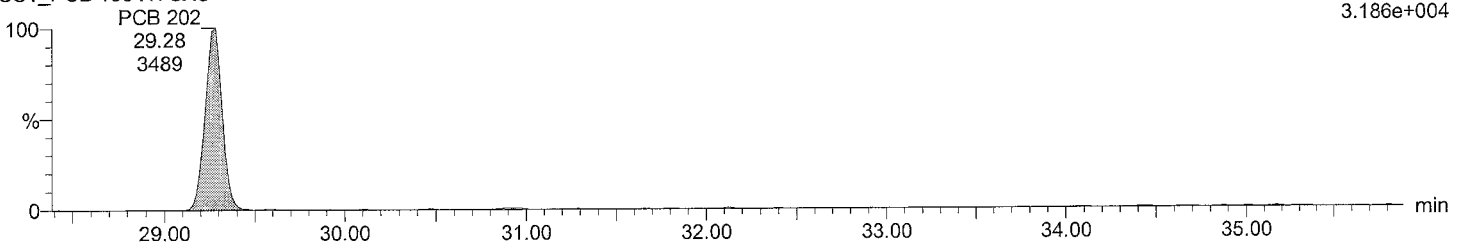
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1\_PCB 150417CXU

427.7635

3.186e+004



Total OcCB F6

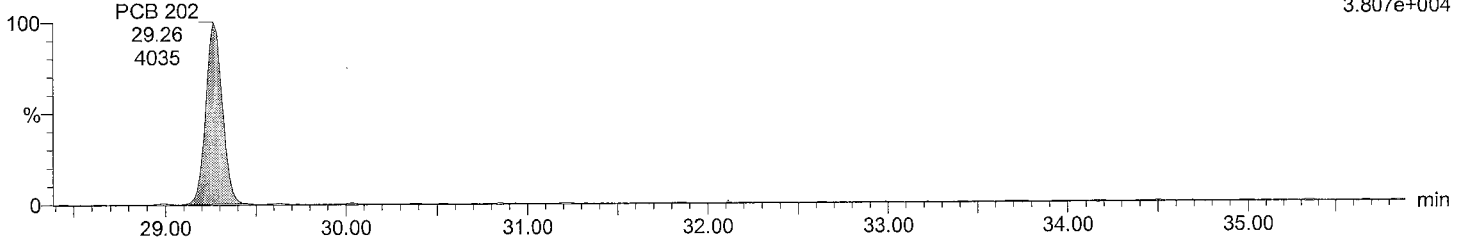
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1\_PCB 150417CXU

429.7606

3.807e+004



Total OcCB labeled F6

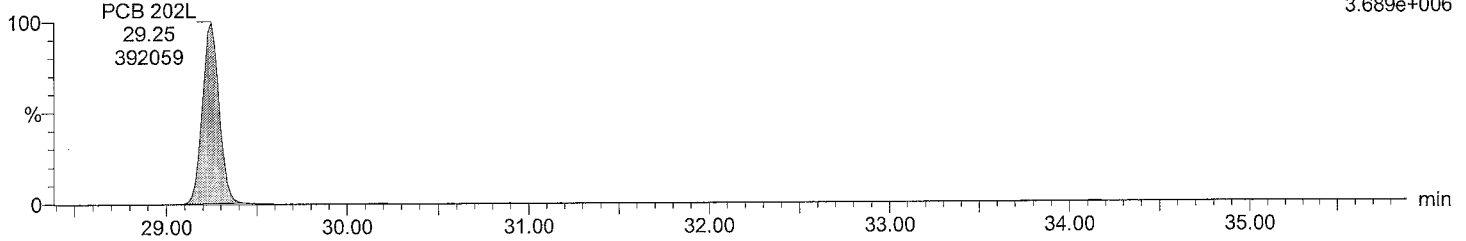
M2160211AS002 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS1\_PCB 150417CXU

439.8038

3.689e+006



Total OcCB labeled F6

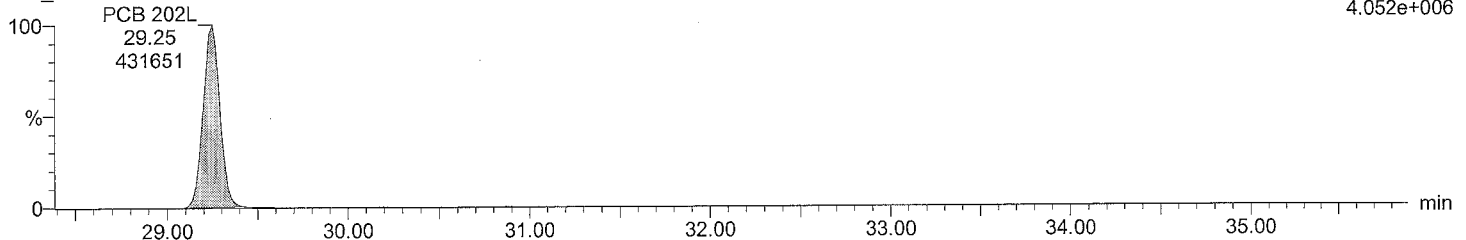
M2160211AS002 Smooth(SG,3x1)

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  
 Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

**Description: CS1\_PCB 150417CXU**

**Vial: 2**

**Date: 11-FEB-2016**

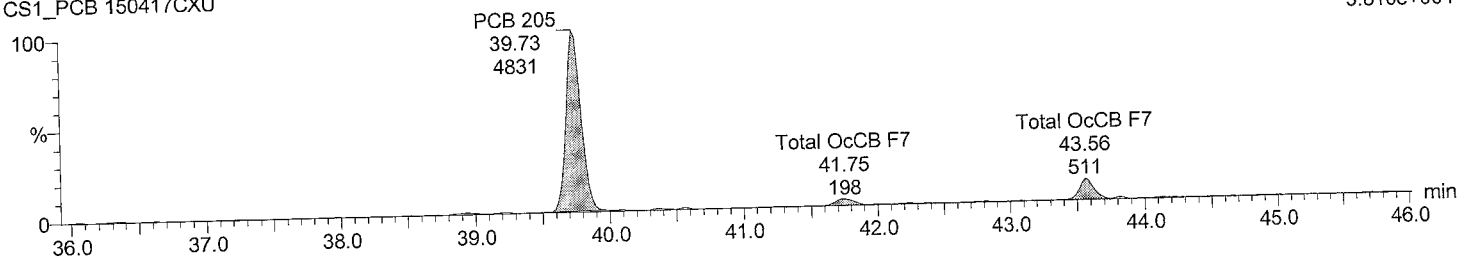
**Time: 18:43:05**

**Instrument: Autospec-UltimaE**

**Total OcCB F7**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU

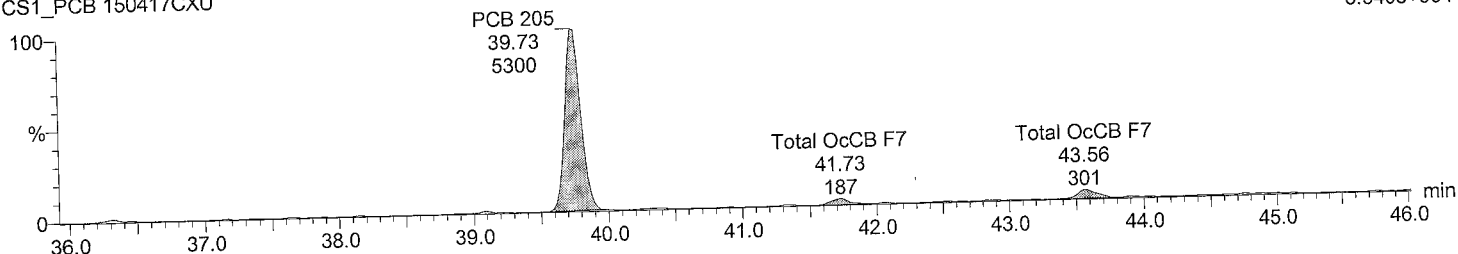
F7:SIR of 18 channels, EI+  
 427.7635  
 3.810e+004



**Total OcCB F7**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU

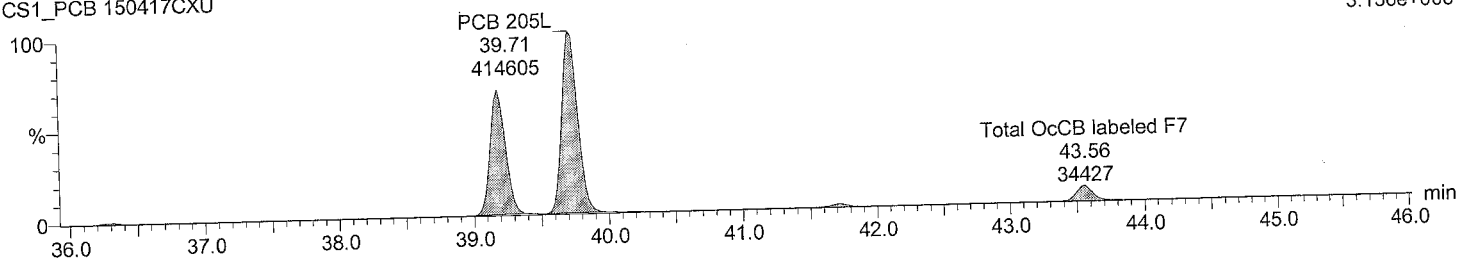
F7:SIR of 18 channels, EI+  
 429.7606  
 3.940e+004



**Total OcCB labeled F7**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU

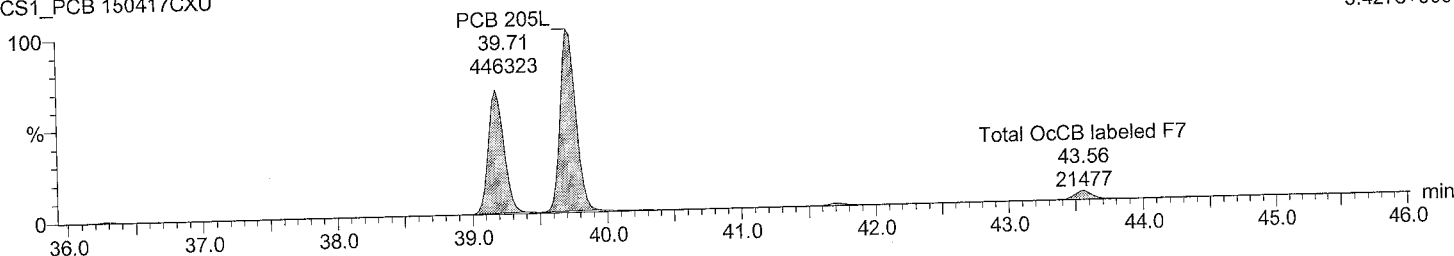
F7:SIR of 18 channels, EI+  
 439.8038  
 3.136e+006



**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

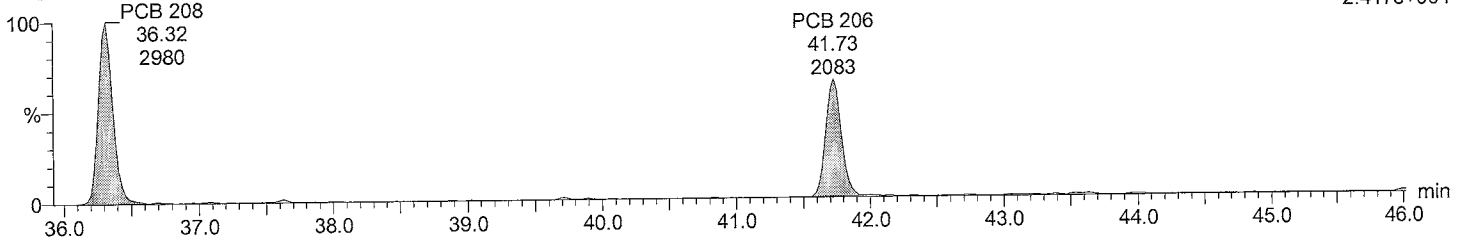
Time: 18:43:05

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

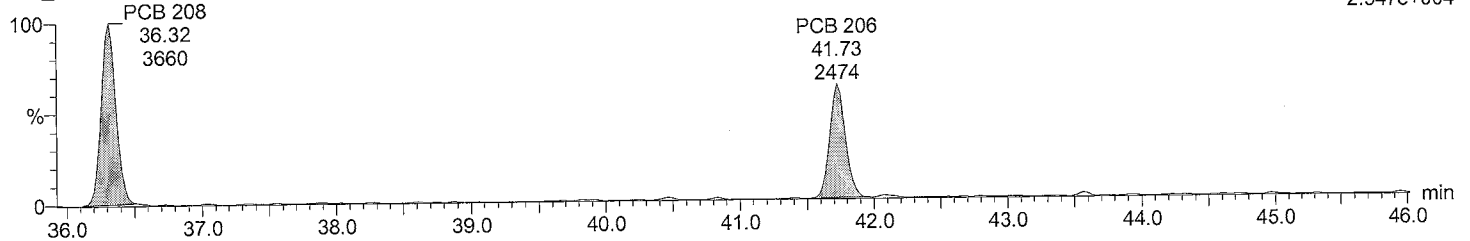
F7:SIR of 18 channels,EI+  
461.7246  
2.417e+004



Total NoCB F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

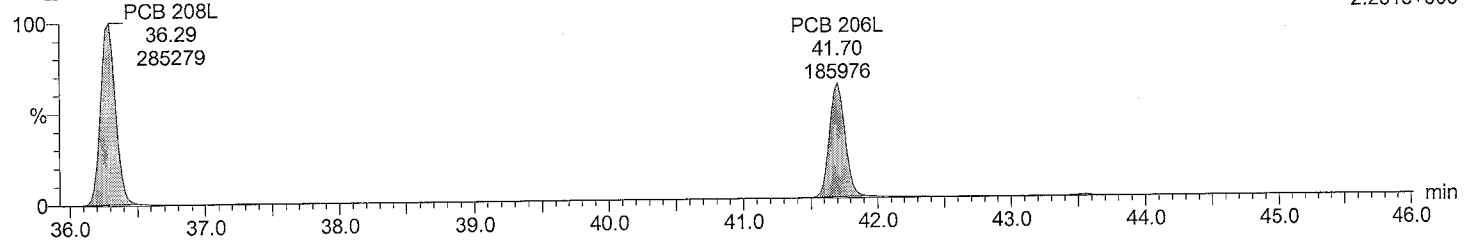
F7:SIR of 18 channels,EI+  
463.7216  
2.947e+004



Total NoCB labeled F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

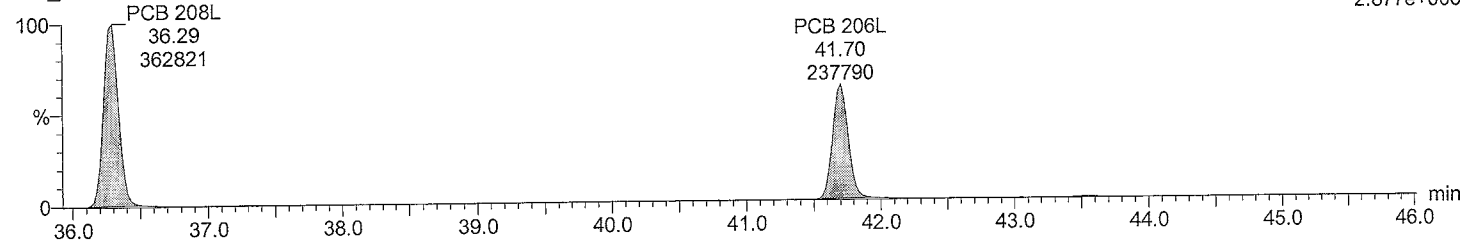
F7:SIR of 18 channels,EI+  
473.7648  
2.251e+006



Total NoCB labeled F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
475.7619  
2.877e+006



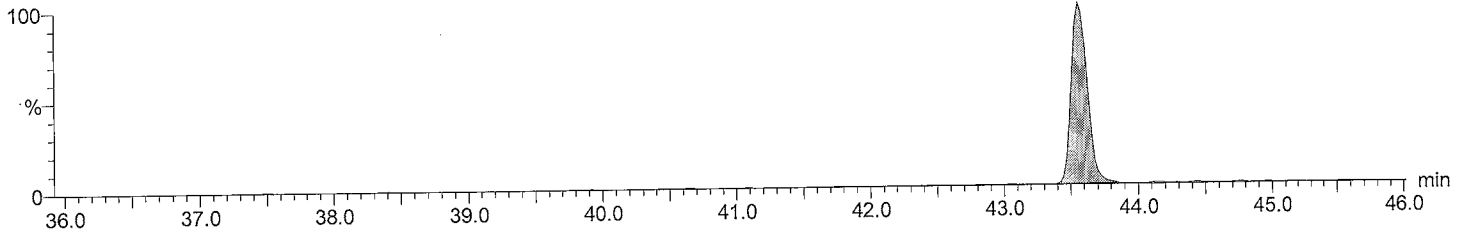
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld  
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

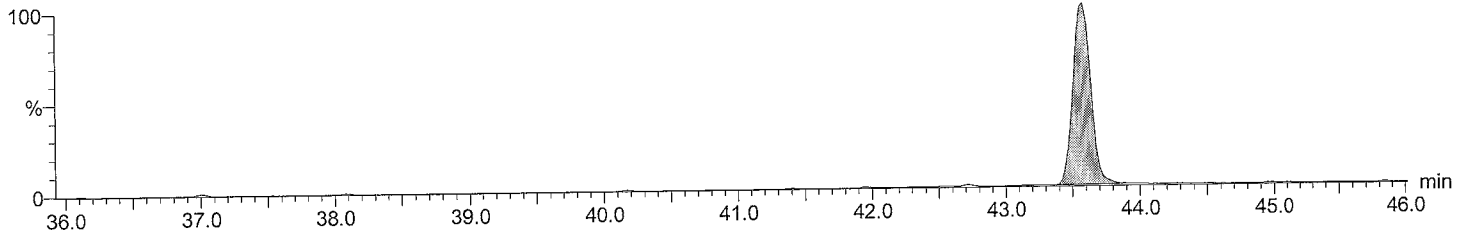
PCB 209  
43.56  
2505  
F7:SIR of 18 channels,EI+  
497.6826  
1.865e+004



Total DeCB F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

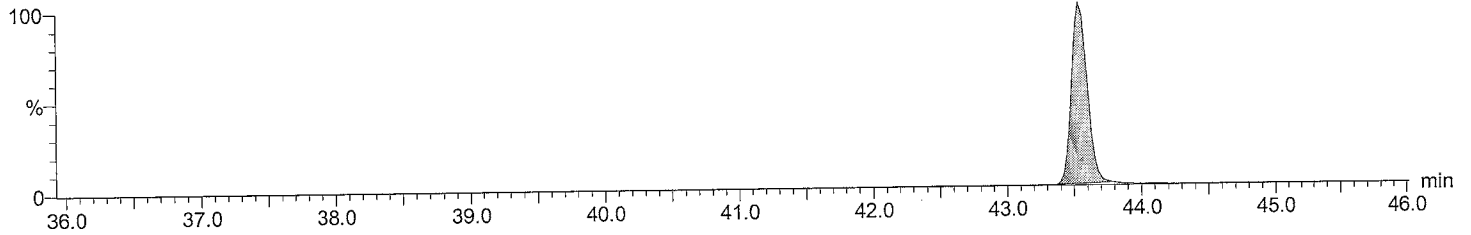
PCB 209  
43.58  
2100  
F7:SIR of 18 channels,EI+  
499.6797  
1.419e+004



Total DeCB labeled F7

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

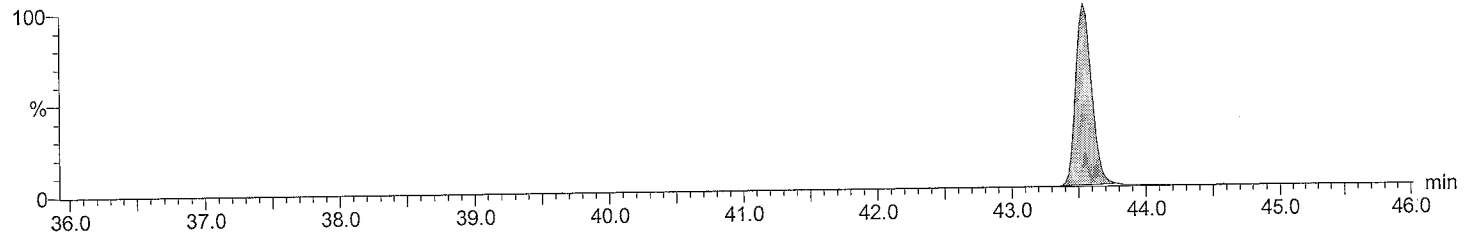
PCB 209L  
43.54  
220615  
F7:SIR of 18 channels,EI+  
509.7229  
1.683e+006



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

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Description: CS1\_PCB 150417CXU

Vial: 2

Date: 11-FEB-2016

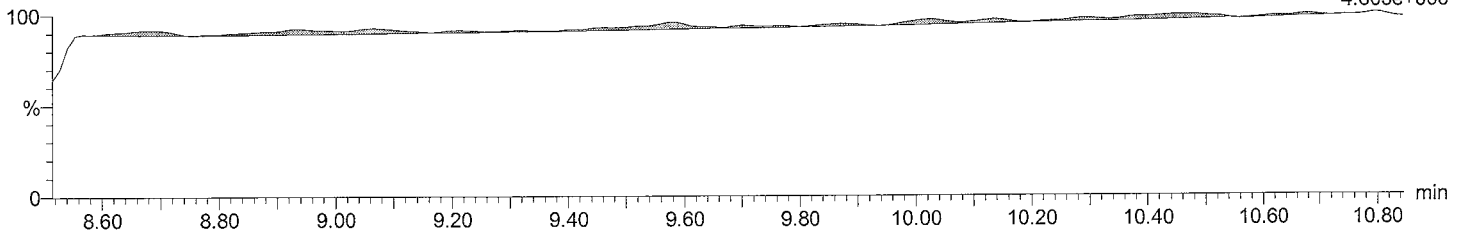
Time: 18:43:05

Instrument: Autospec-UltimaE

lockmass F1

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

F1:SIR of 10 channels,EI+  
218.9856  
4.605e+006

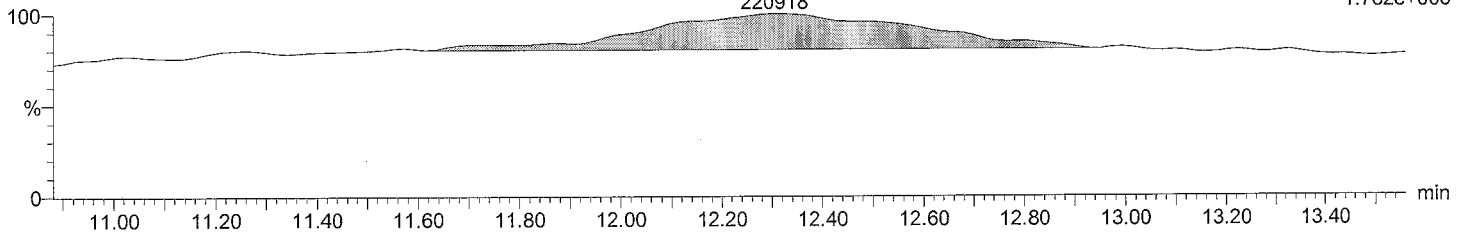


lockmass F2

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

lockmass F2  
12.31  
220918

F2:SIR of 16 channels,EI+  
242.9856  
1.782e+006



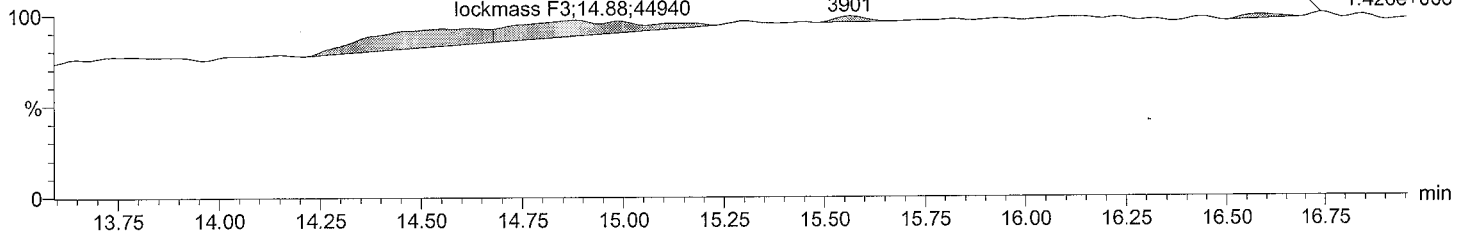
lockmass F3

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

lockmass F3;14.88;44940

lockmass F3  
15.56  
3901

F3:SIR of 14 channels,EI+  
16.74  
292.9824  
1.426e+006



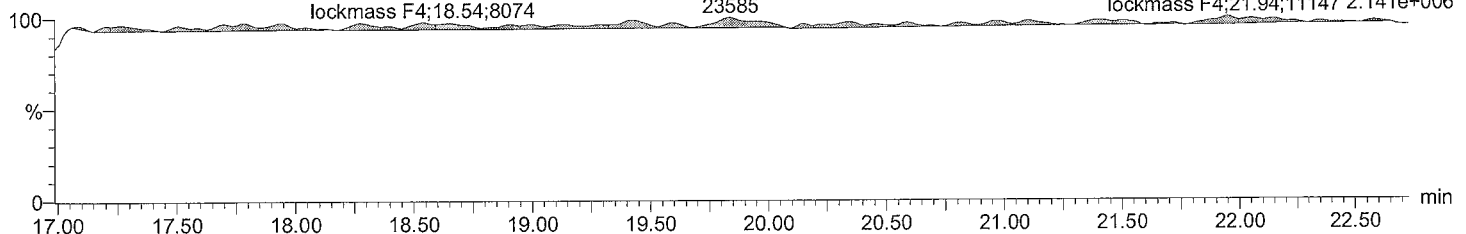
lockmass F4

M2160211AS002 Smooth(SG,3x1)  
CS1\_PCB 150417CXU

lockmass F4;18.54;8074

lockmass F4  
19.84  
23585

F4:SIR of 14 channels,EI+  
lockmass F4;21.94;11147  
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**

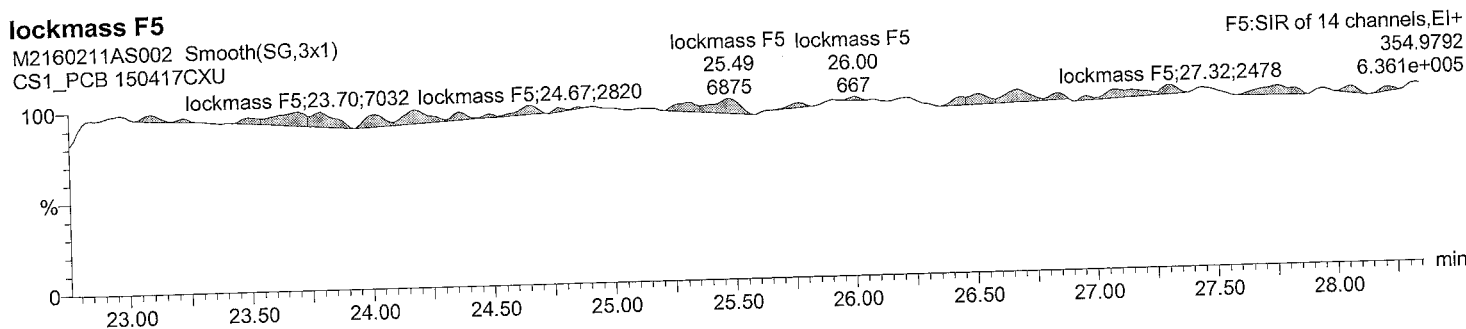
**Date: 11-FEB-2016**

**Time: 18:43:05**

**Instrument: Autospec-UltimaE**

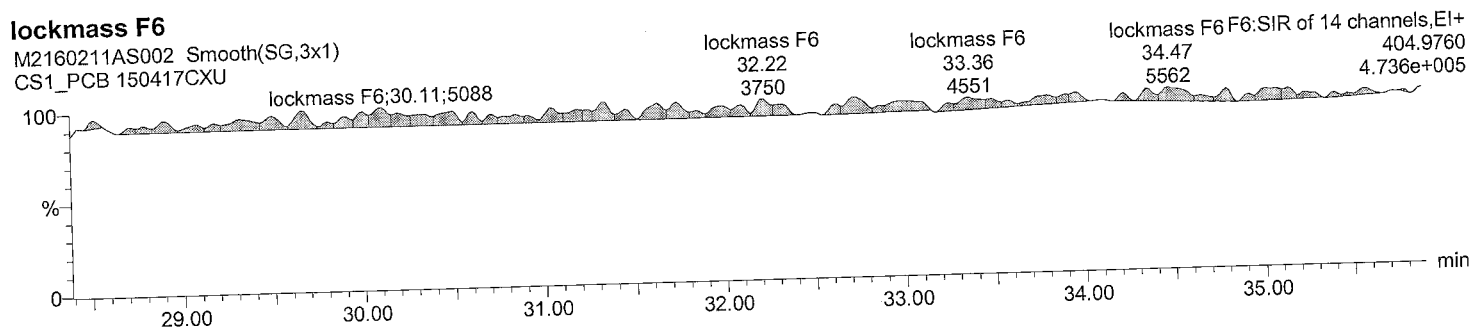
**lockmass F5**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU



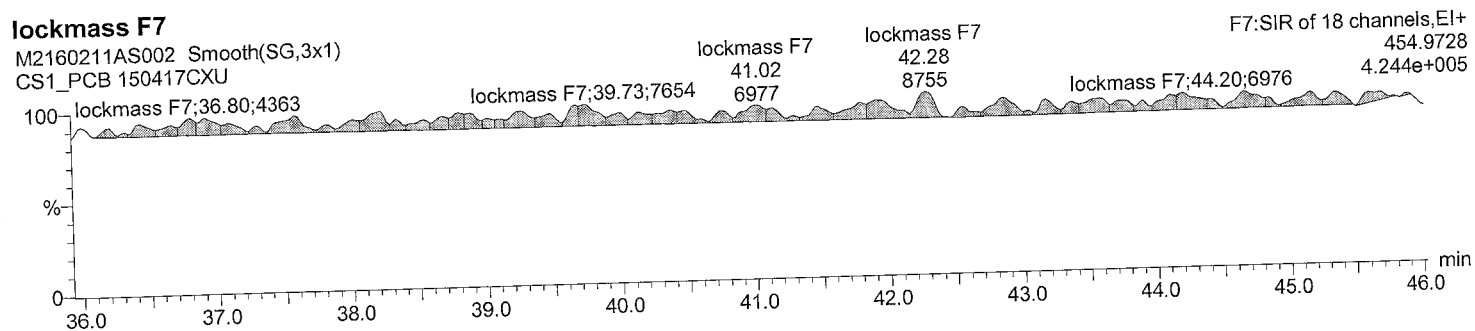
**lockmass F6**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU



**lockmass F7**

M2160211AS002 Smooth(SG,3x1)  
 CS1\_PCB 150417CXU



Quantify Sample Summary 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 8:07:11 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	

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
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

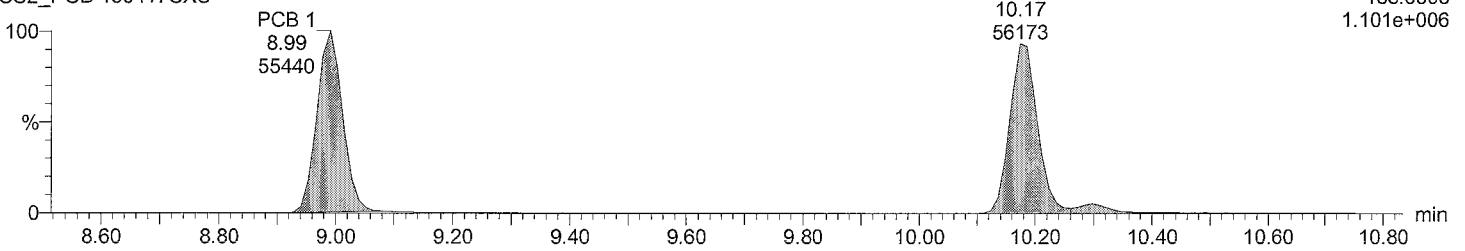
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

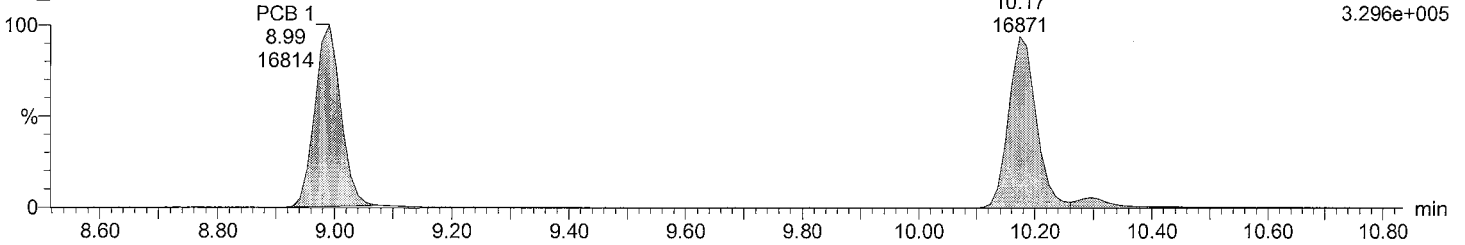
F1:SIR of 10 channels,EI+  
188.0393  
1.101e+006



Total MoCB F1

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

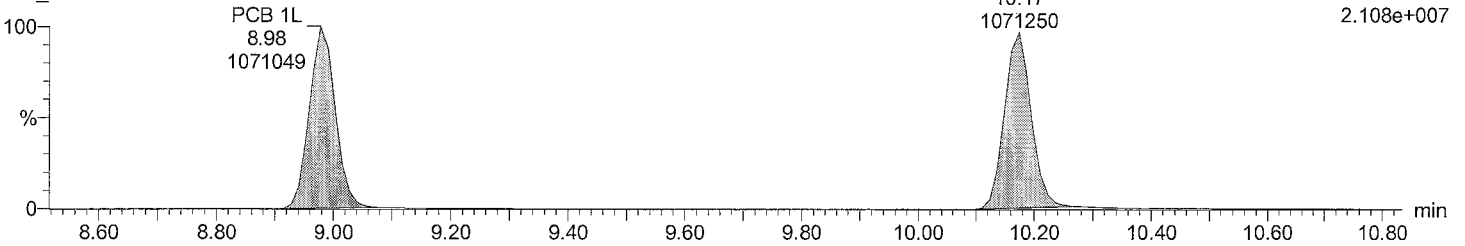
F1:SIR of 10 channels,EI+  
190.0363  
3.296e+005



Total MoCB labeled F1

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

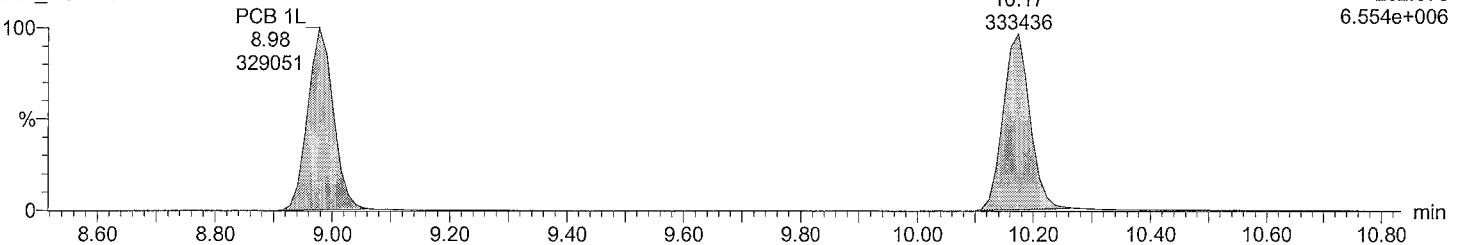
F1:SIR of 10 channels,EI+  
200.0795  
2.108e+007



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

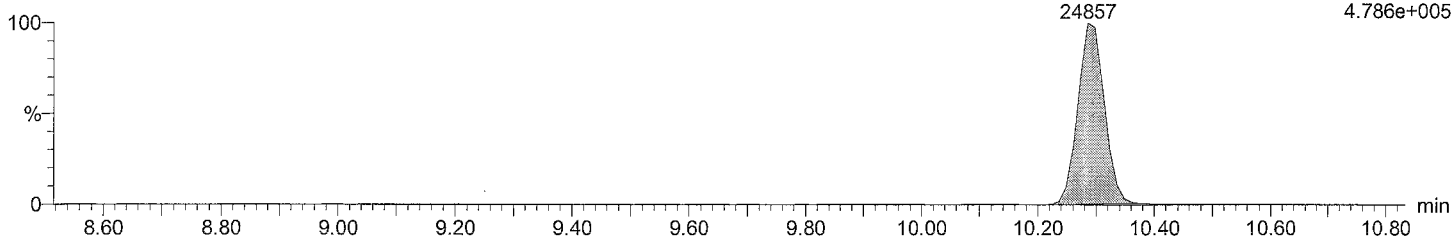
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

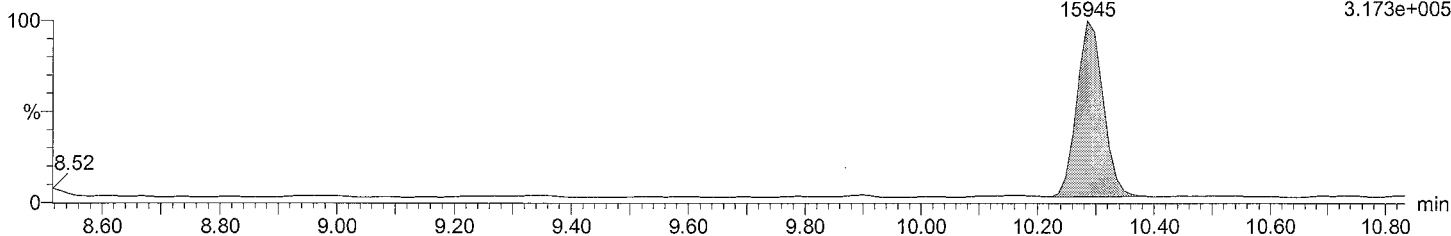
PCB 4  
10.29  
24857  
F1:SIR of 10 channels,EI+  
222.0003  
4.786e+005



**Total DiCB F1**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

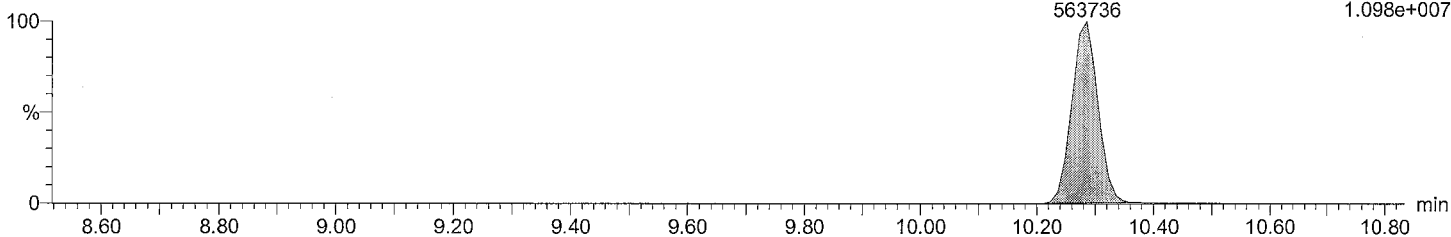
PCB 4  
10.29  
15945  
F1:SIR of 10 channels,EI+  
223.9974  
3.173e+005



**Total DiCB labeled F1**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

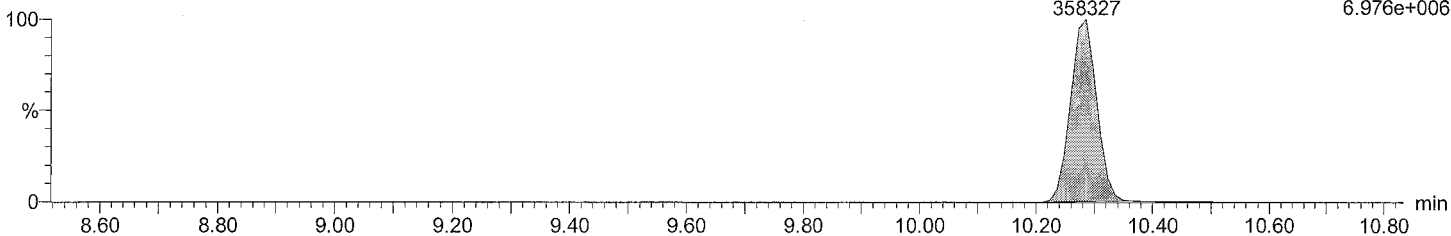
PCB 4L  
10.29  
563736  
F1:SIR of 10 channels,EI+  
234.0406  
1.098e+007



**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



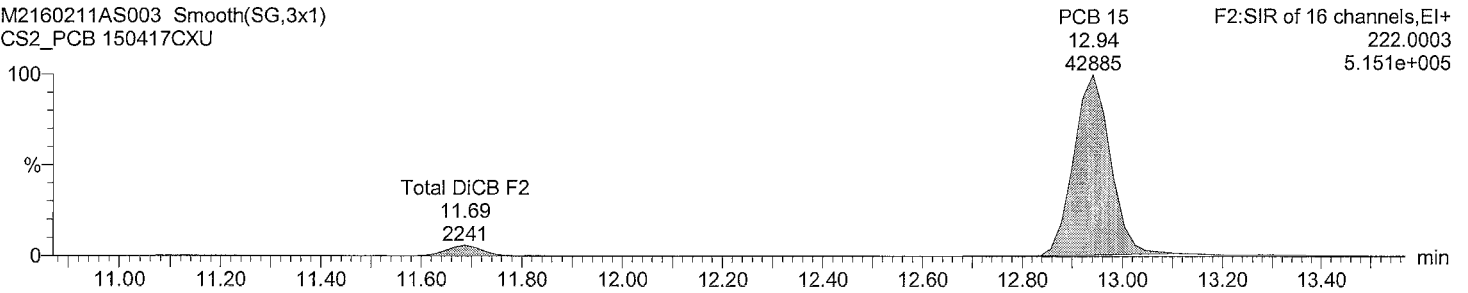
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

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

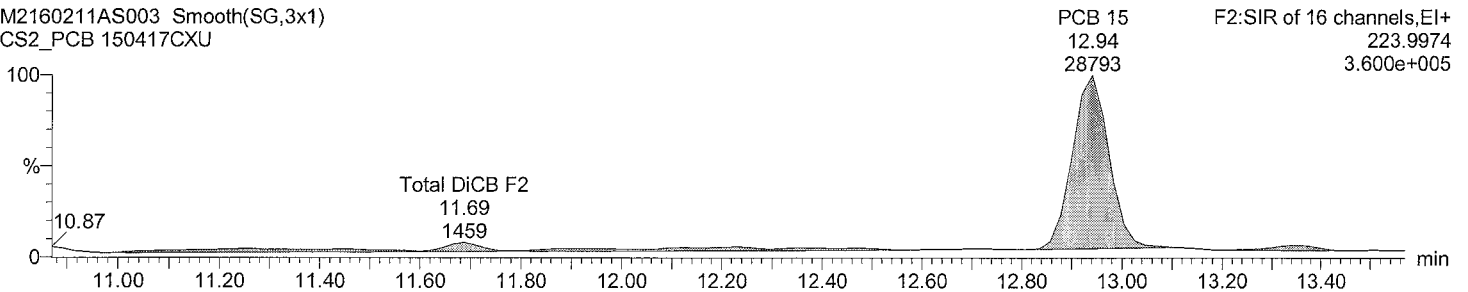
**Total DiCB F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



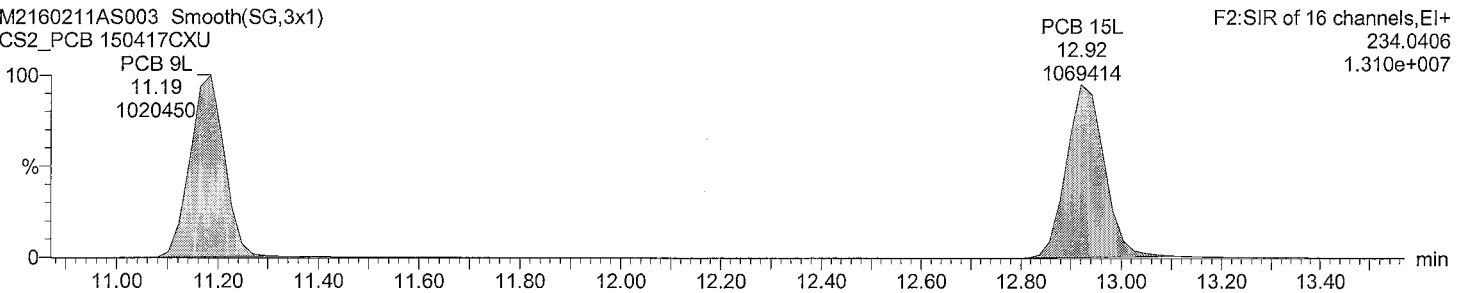
**Total DiCB F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



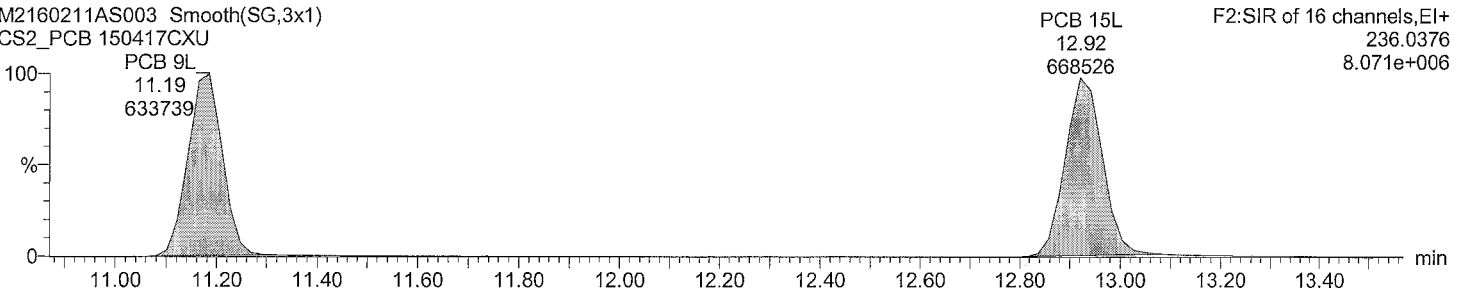
**Total DiCB labeled F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



**Total DiCB labeled F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

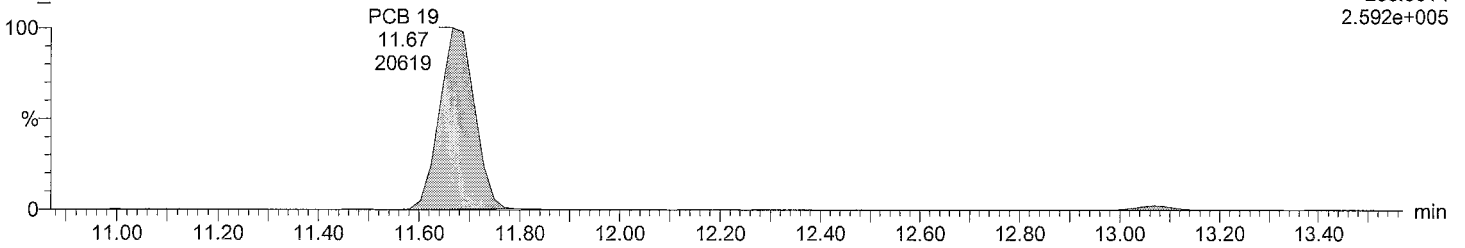
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

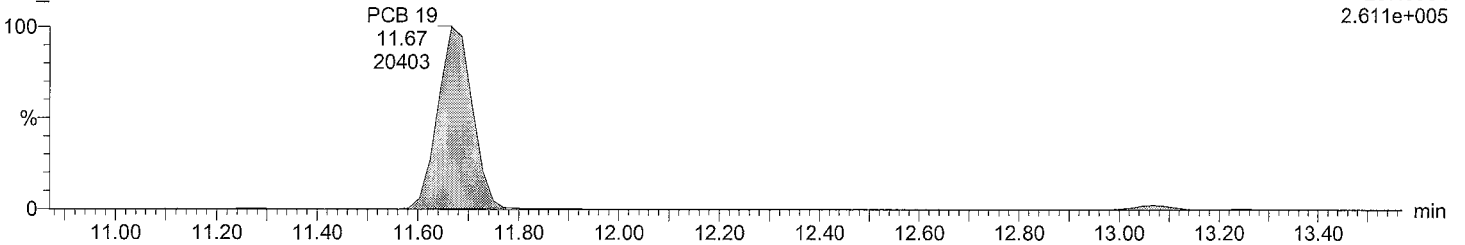
F2:SIR of 16 channels,EI+  
255.9614  
2.592e+005



Total TriCB F2

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

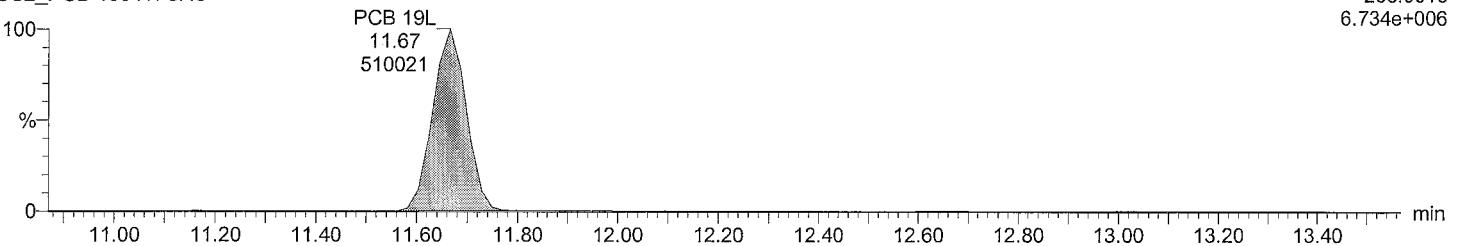
F2:SIR of 16 channels,EI+  
257.9584  
2.611e+005



Total TriCB labeled F2

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

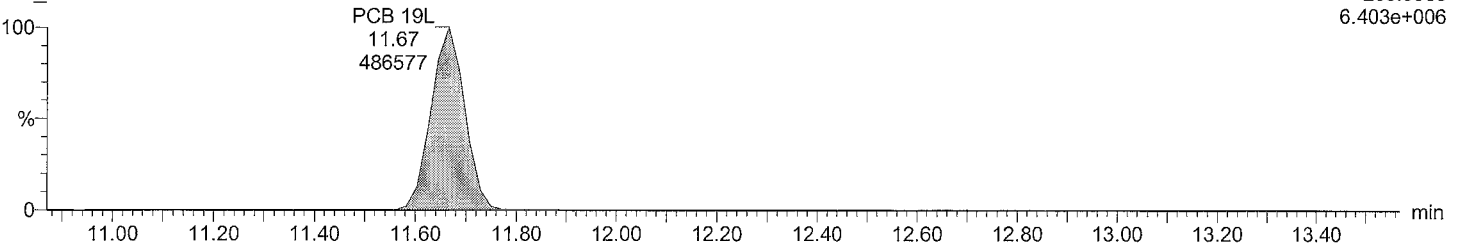
F2:SIR of 16 channels,EI+  
268.0016  
6.734e+006



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

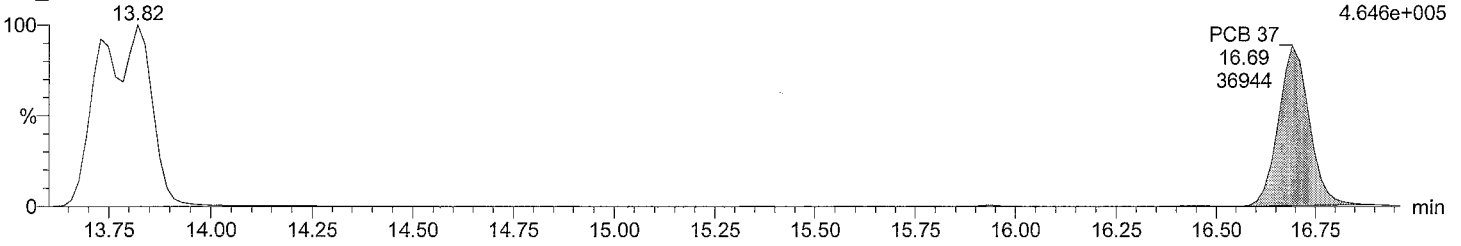
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

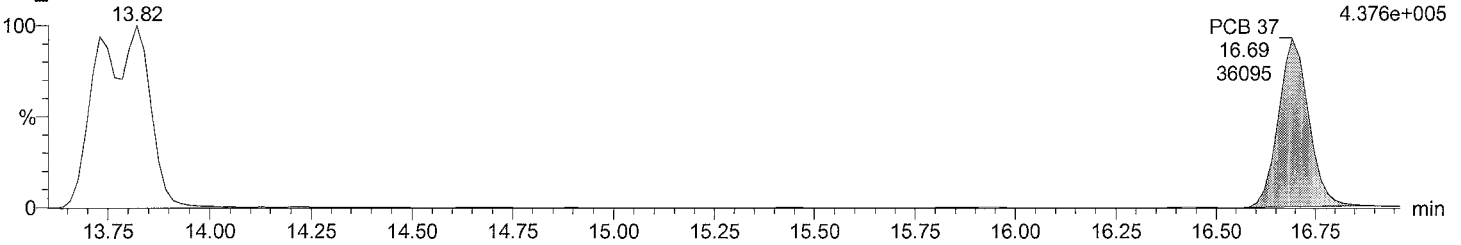
F3:SIR of 14 channels,EI+  
255.9614  
4.646e+005



Total TriCB F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

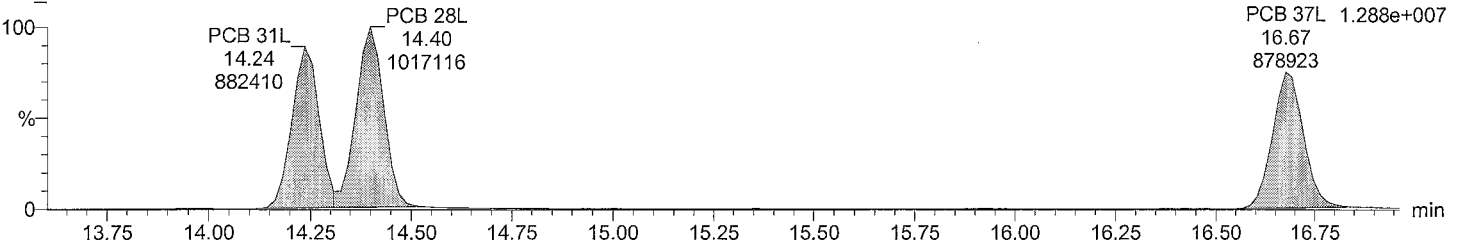
F3:SIR of 14 channels,EI+  
257.9584  
4.376e+005



Total TriCB labeled F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

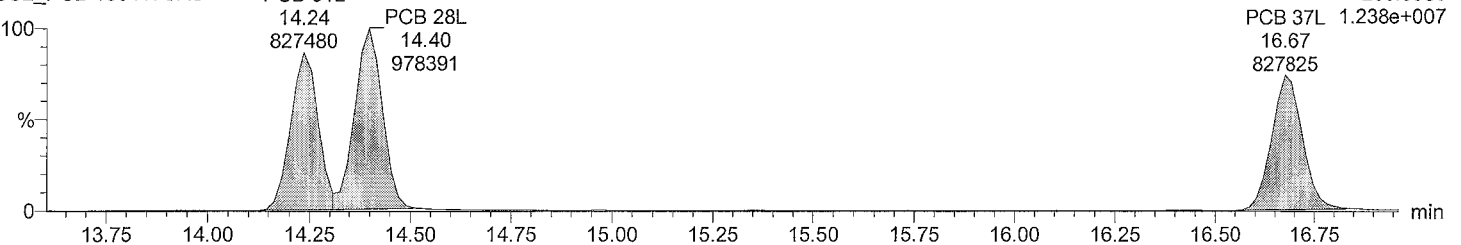
F3:SIR of 14 channels,EI+  
268.0016  
1.288e+007



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

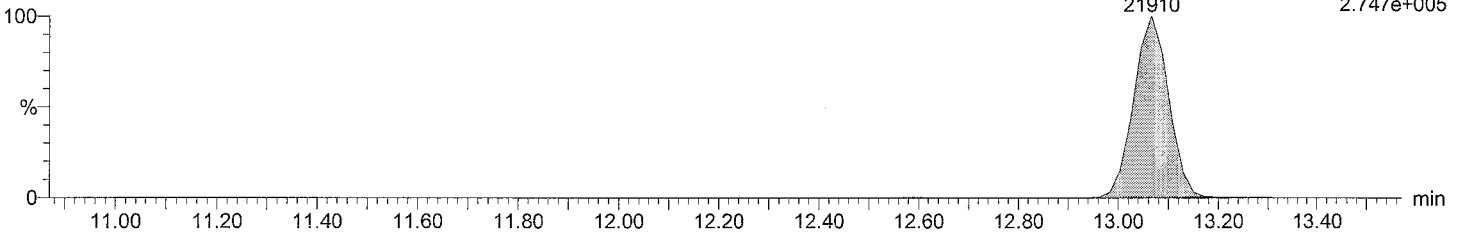
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

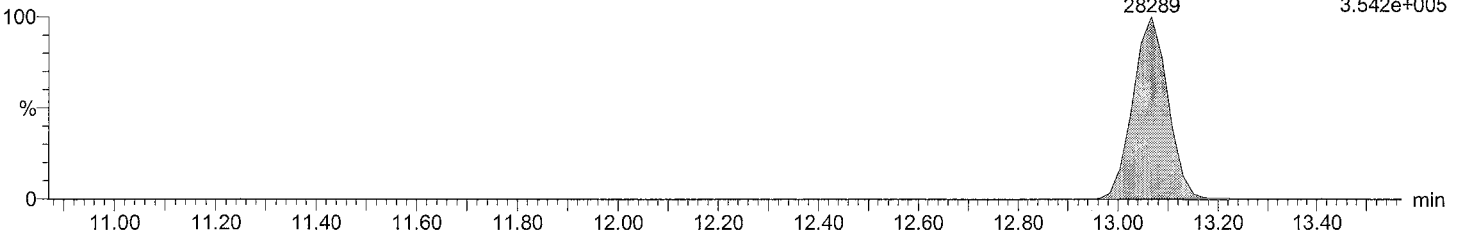
PCB 54 F2:SIR of 16 channels,EI+  
13.07 289.9224  
21910 2.747e+005



**Total TeCB F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

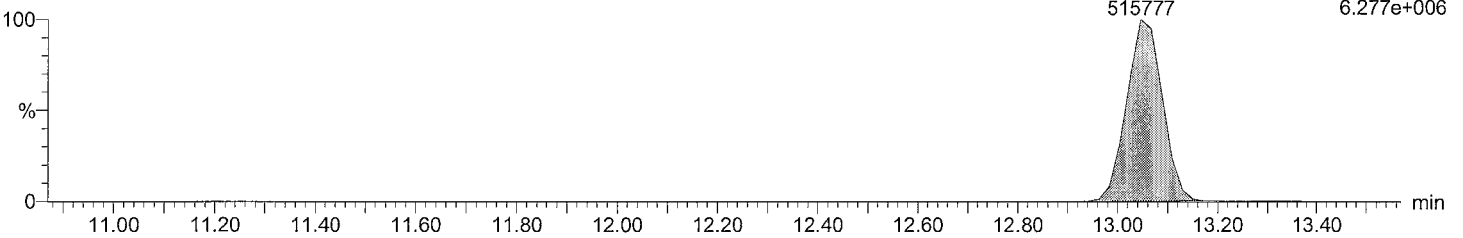
PCB 54 F2:SIR of 16 channels,EI+  
13.07 291.9194  
28289 3.542e+005



**Total TeCB labeled F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

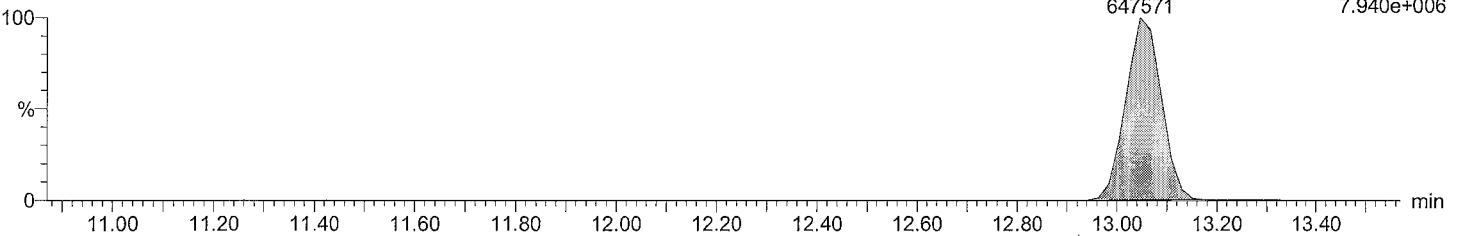
PCB 54L F2:SIR of 16 channels,EI+  
13.05 301.9626  
515777 6.277e+006



**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

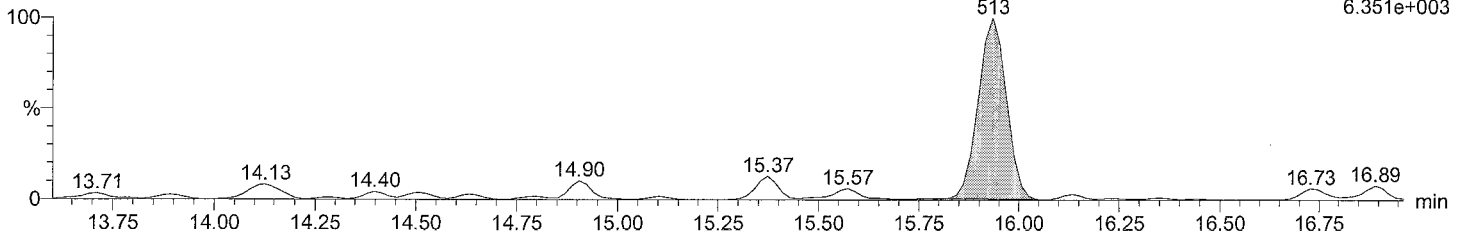
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

Total TeCB F3  
15.93  
513

F3:SIR of 14 channels,EI+  
289.9224  
6.351e+003

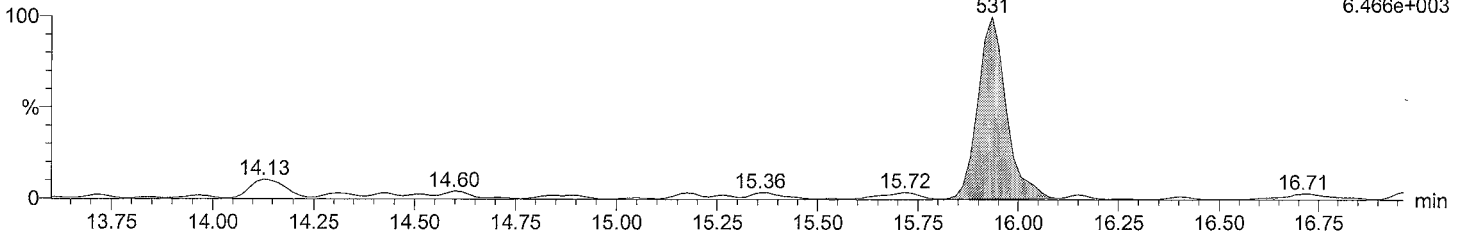


Total TeCB F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

Total TeCB F3  
15.93  
531

F3:SIR of 14 channels,EI+  
291.9194  
6.466e+003

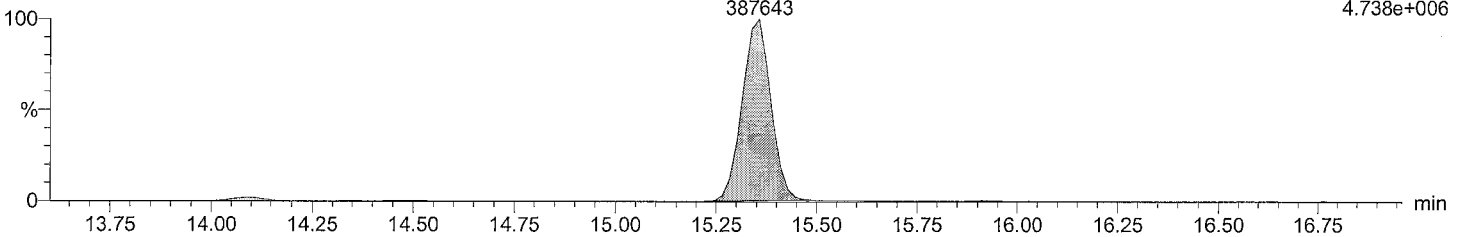


Total TeCB labeled F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 52L  
15.36  
387643

F3:SIR of 14 channels,EI+  
301.9626  
4.738e+006

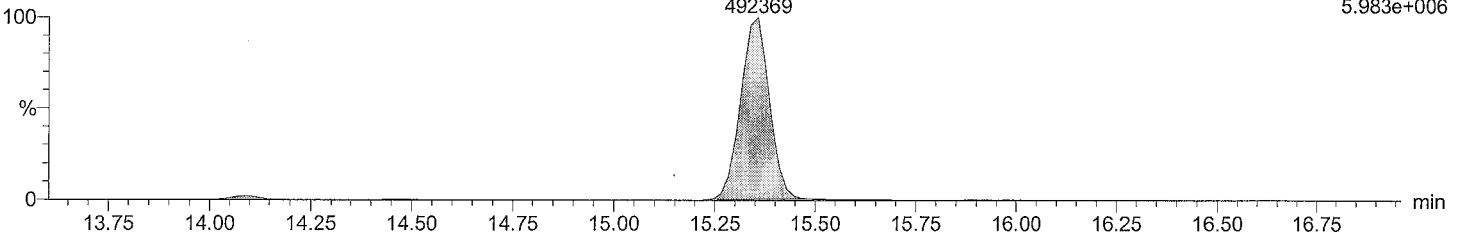


Total TeCB labeled F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 52L  
15.36  
492369

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

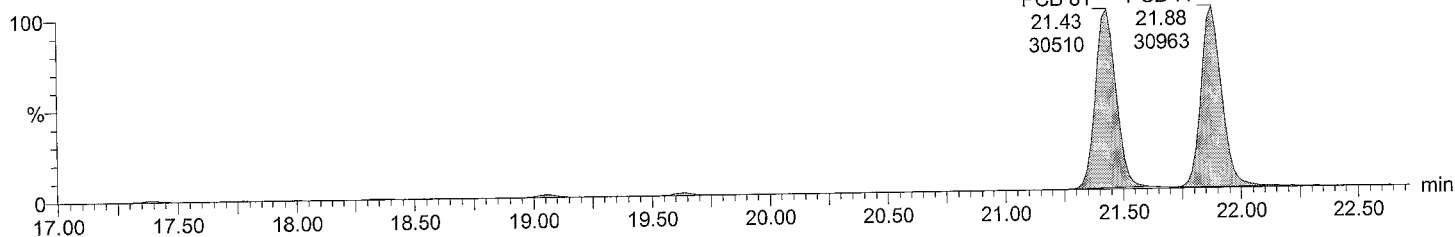
Time: 19:33:17

Instrument: Autospec-UltimaE

Total TeCB F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

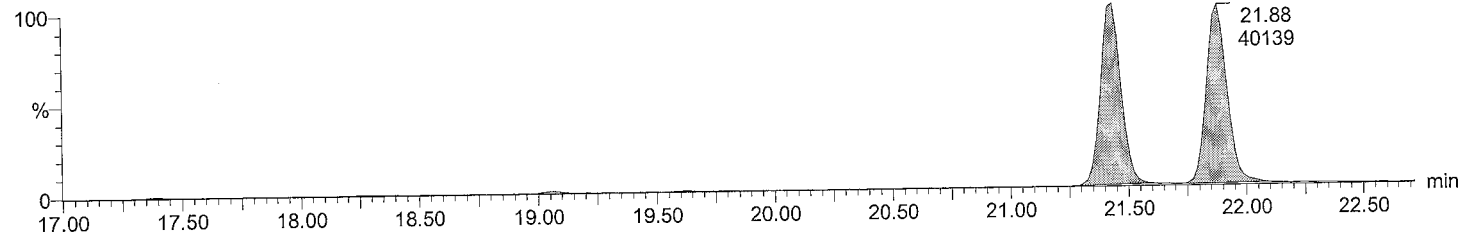
F4:SIR of 14 channels,EI+  
289.9224  
3.104e+005



Total TeCB F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

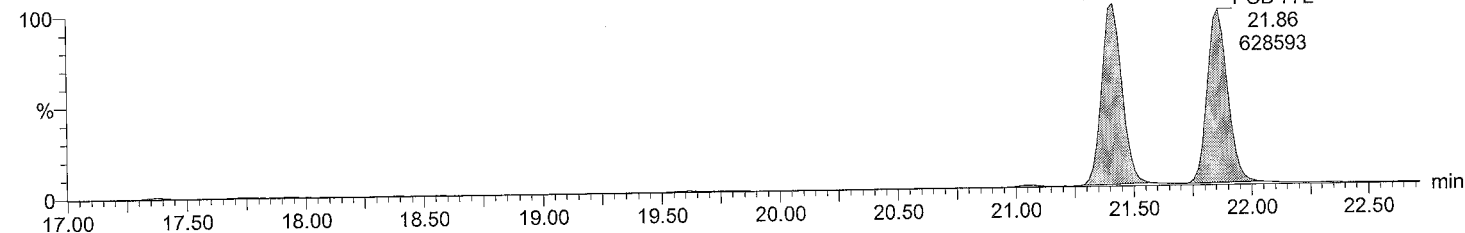
F4:SIR of 14 channels,EI+  
291.9194  
4.099e+005



Total TeCB labeled F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

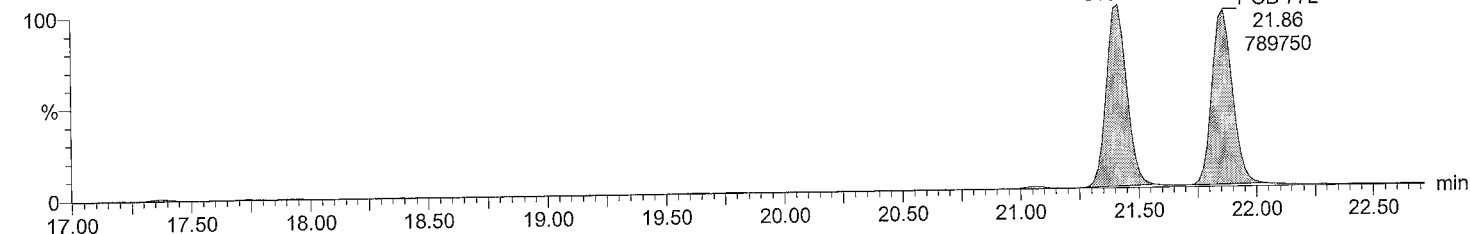
F4:SIR of 14 channels,EI+  
301.9626  
6.669e+006



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

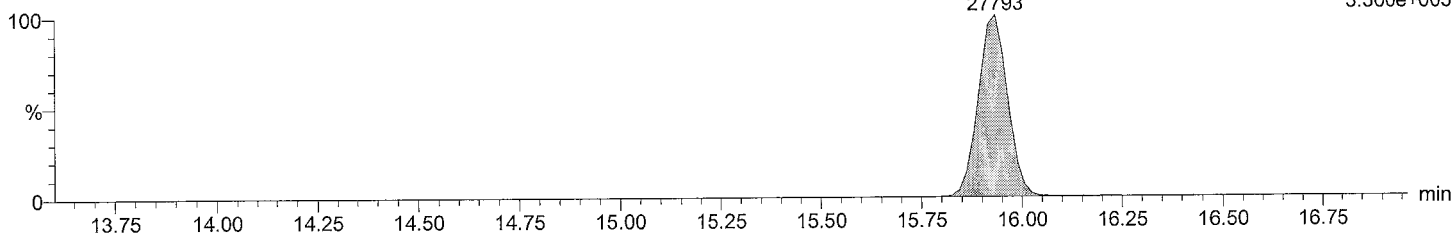
Instrument: Autospec-UltimaE

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

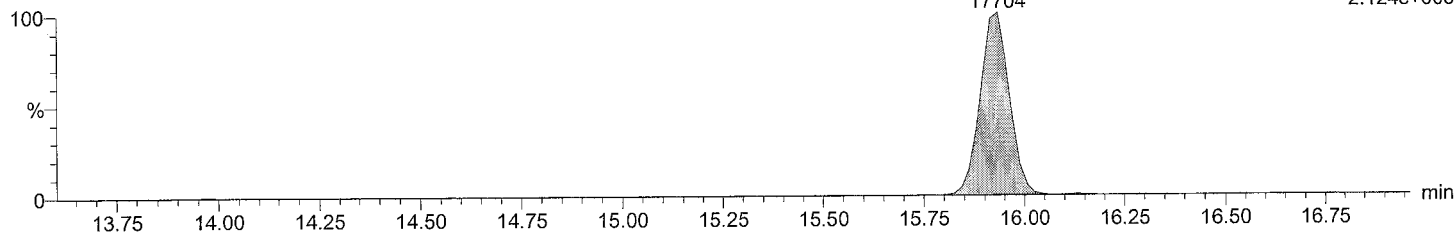


Total PeCB F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 104  
15.93  
17704

F3:SIR of 14 channels,EI+  
327.8775  
2.124e+005

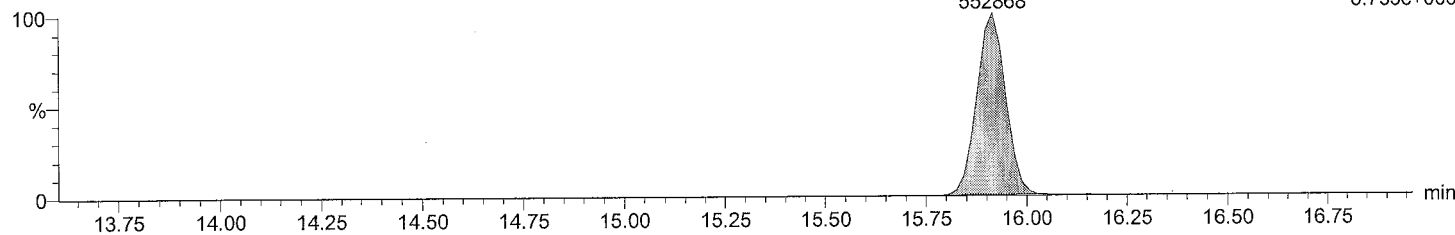


Total PeCB labeled F3

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 104L  
15.92  
552868

F3:SIR of 14 channels,EI+  
337.9207  
6.735e+006

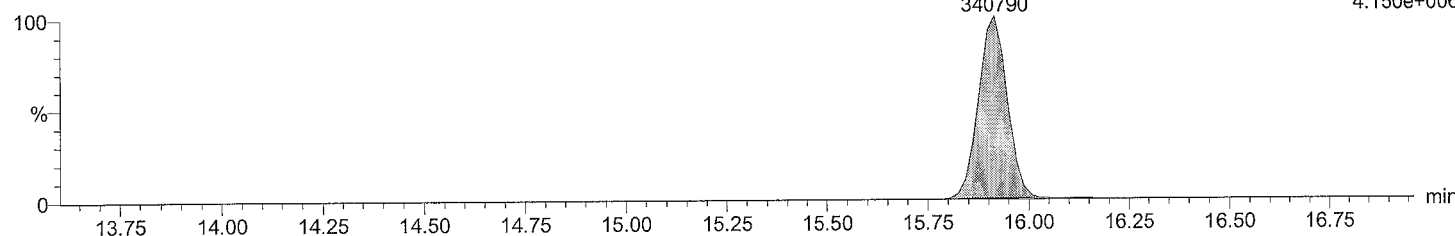


Total PeCB labeled F3

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**

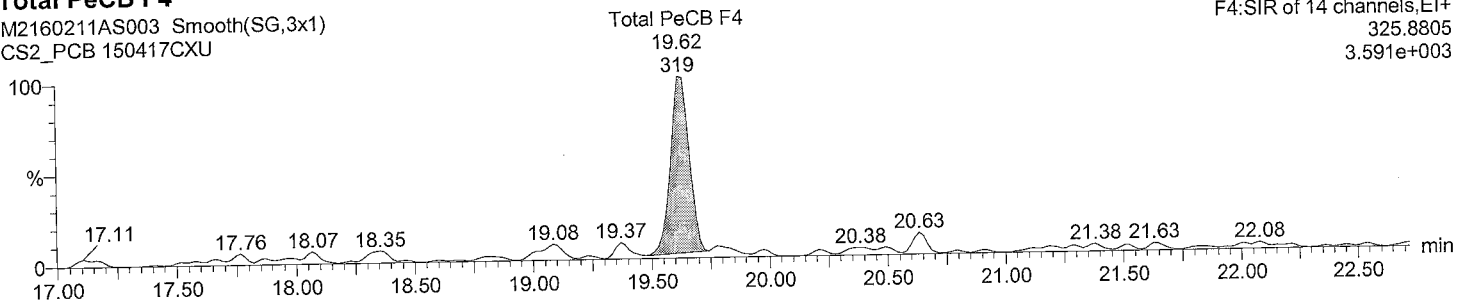
**Time: 19:33:17**

**Instrument: Autospec-UltimaE**

**Total PeCB F4**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

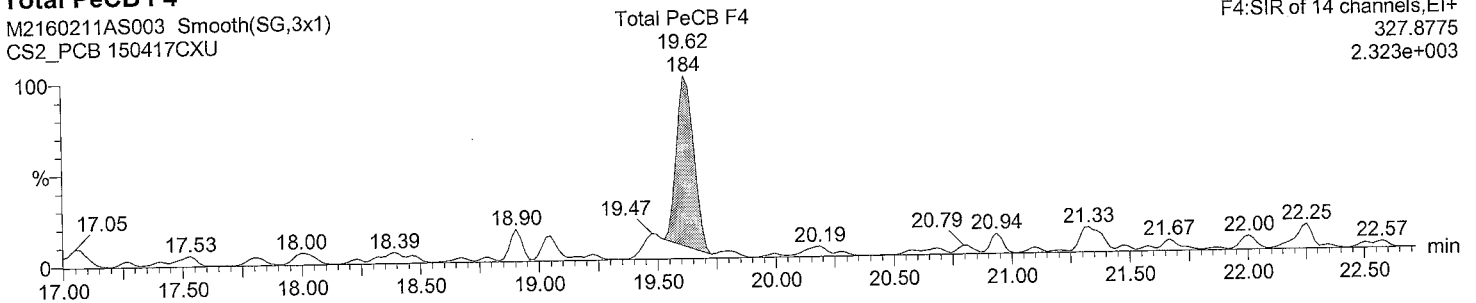
F4:SIR of 14 channels,EI+  
325.8805  
3.591e+003



**Total PeCB F4**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

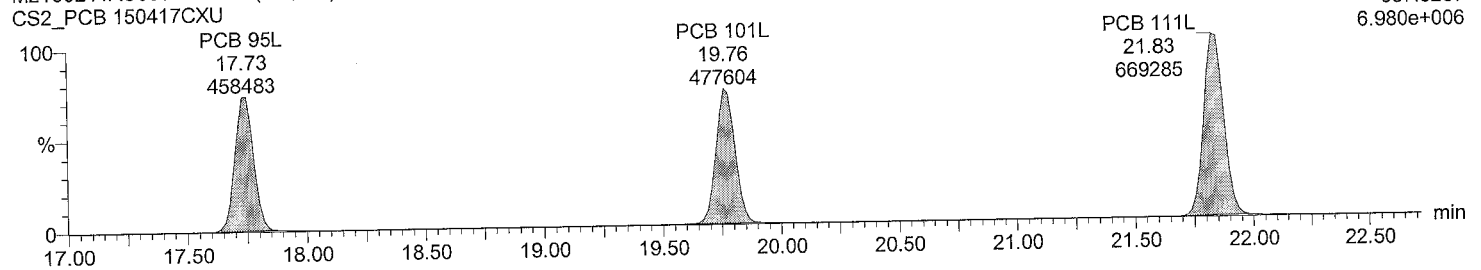
F4:SIR of 14 channels,EI+  
327.8775  
2.323e+003



**Total PeCB labeled F4**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

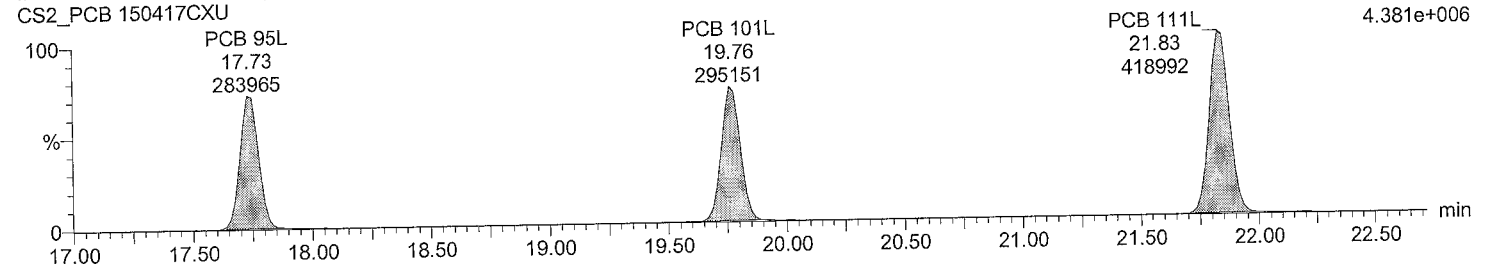
F4:SIR of 14 channels,EI+  
337.9207  
6.980e+006



**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**

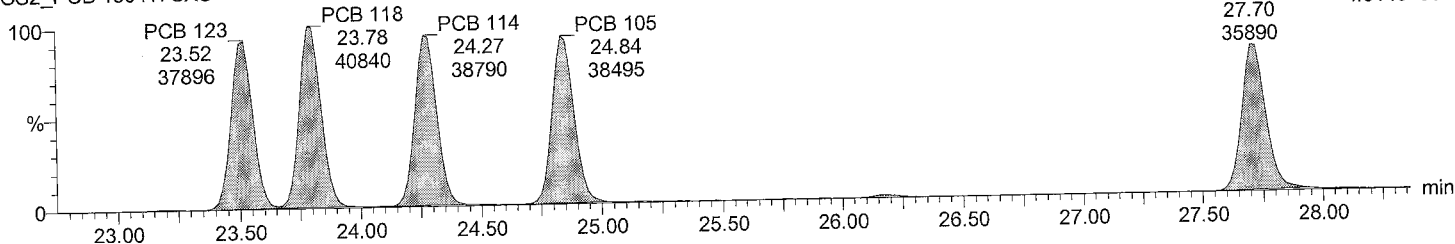
**Total PeCB F5**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126 325.8805

27.70 4.014e+005



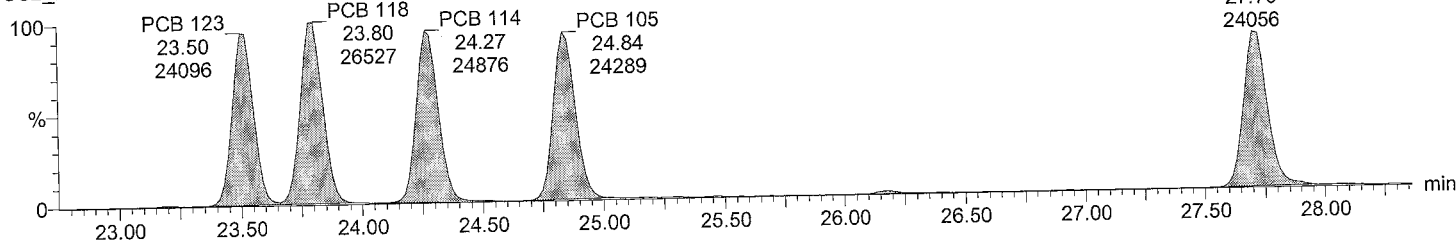
**Total PeCB F5**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126 327.8775

27.70 2.536e+005



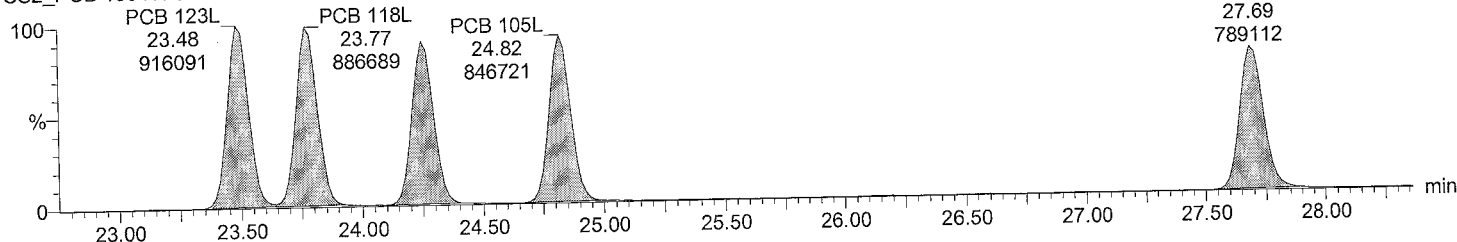
**Total PeCB labeled F5**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

F5:SIR of 14 channels,EI+

PCB 126L 337.9207

27.69 9.109e+006



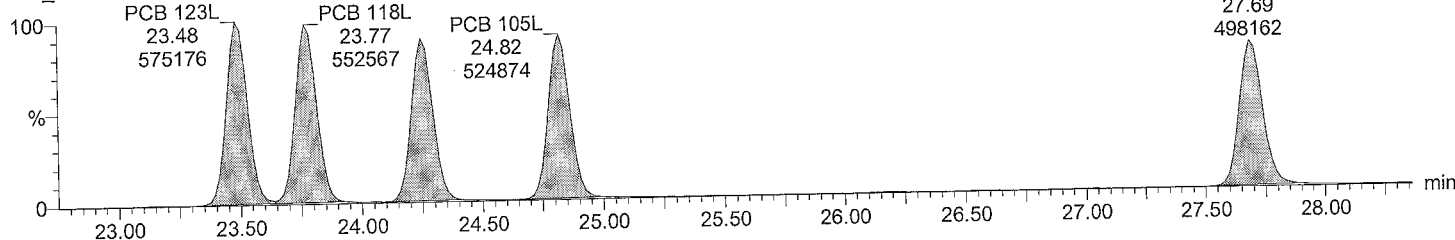
**Total PeCB labeled F5**

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

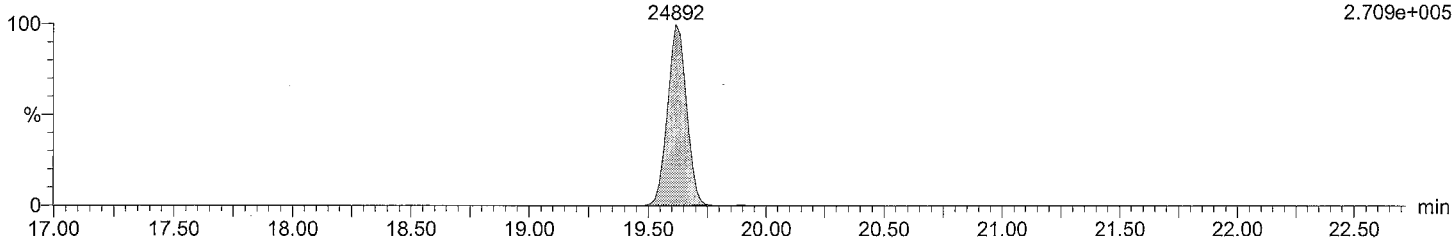
Instrument: Autospec-UltimaE

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

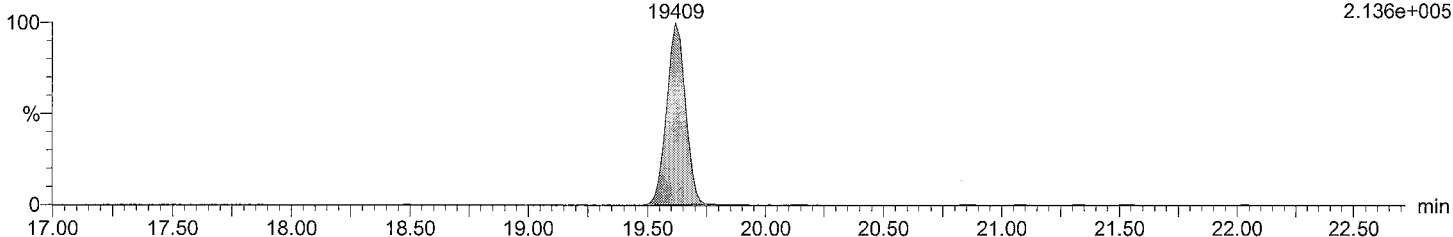


Total HxCB F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 155  
19.62  
19409

F4:SIR of 14 channels,EI+  
361.8385  
2.136e+005

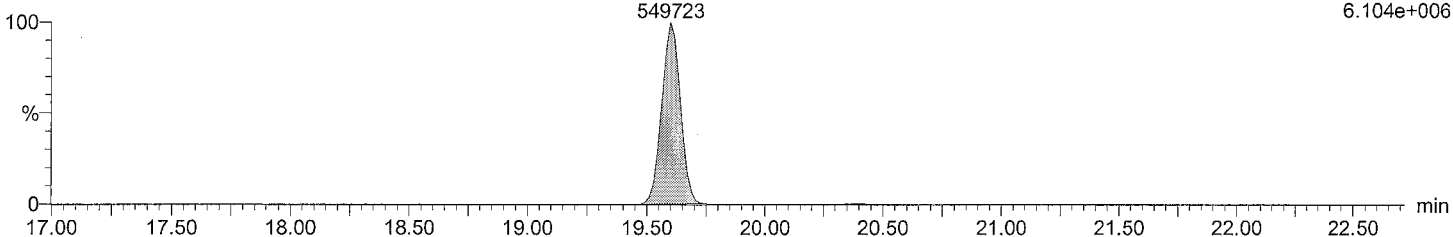


Total HxCB labeled F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 155L  
19.60  
549723

F4:SIR of 14 channels,EI+  
371.8817  
6.104e+006

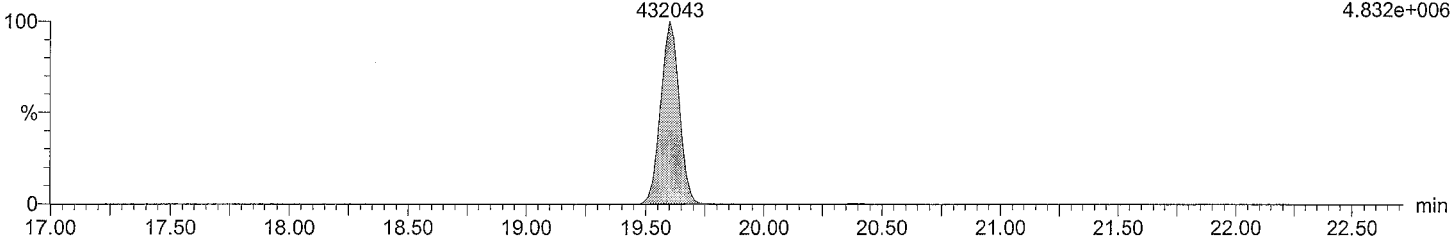


Total HxCB labeled F4

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 155L  
19.60  
432043

F4:SIR of 14 channels,EI+  
373.8788  
4.832e+006





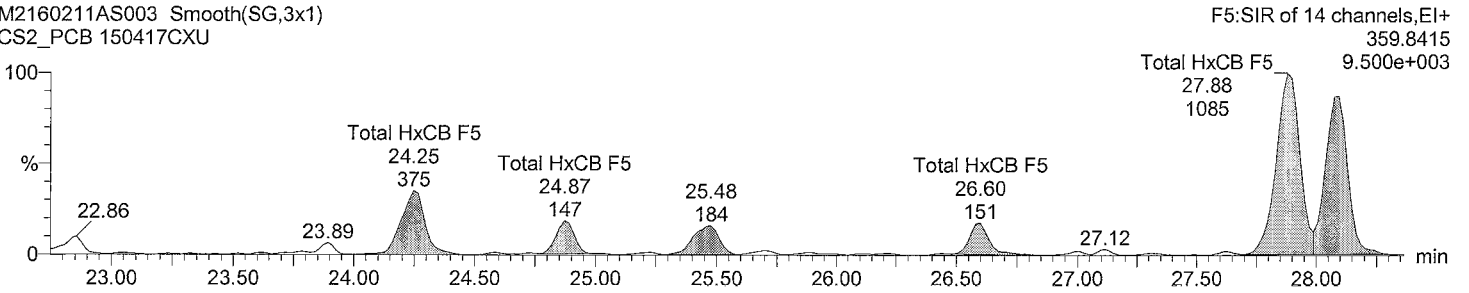
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
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Description: CS2\_PCB 150417CXU  
Vial: 3  
Date: 11-FEB-2016  
Time: 19:33:17  
Instrument: Autospec-UltimaE

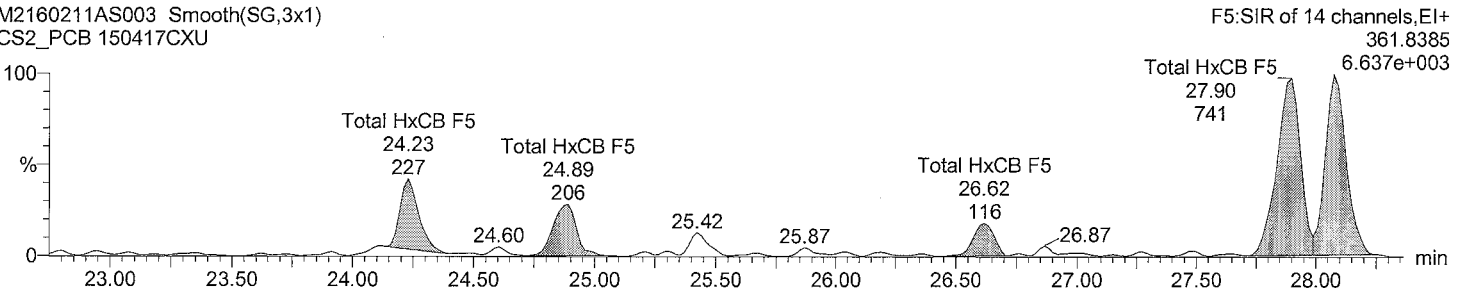
Total HxCB F5

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



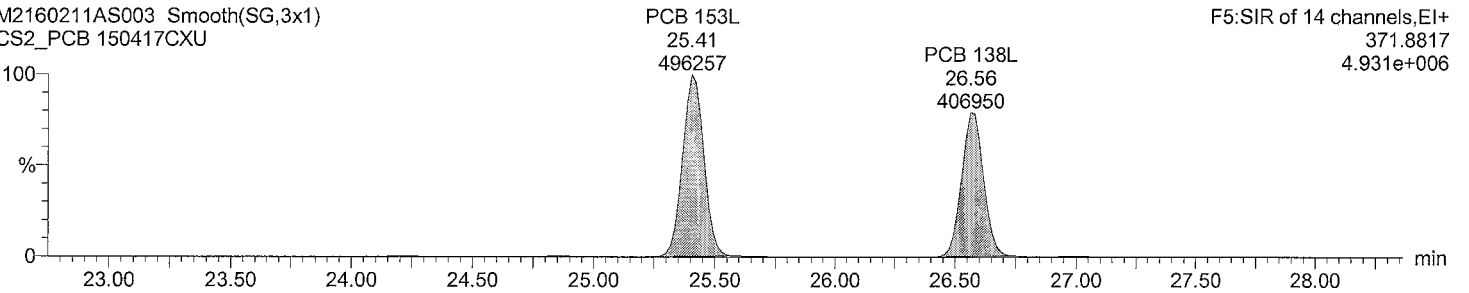
Total HxCB F5

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



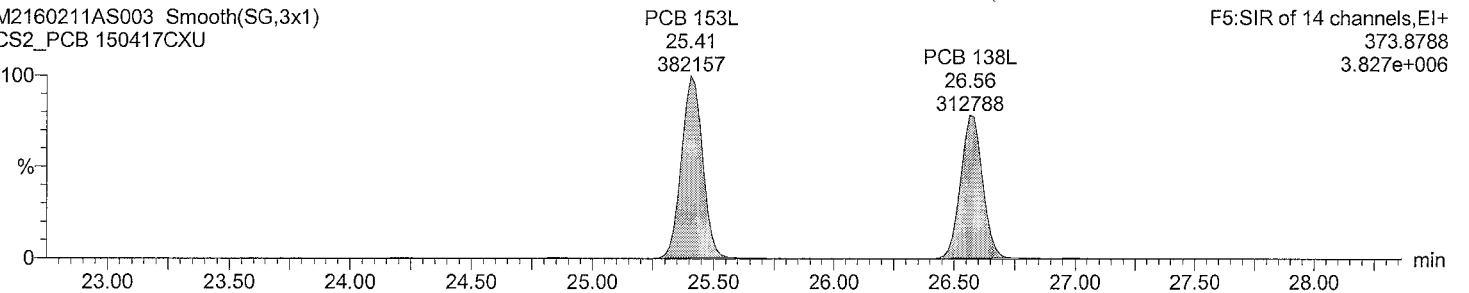
Total HxCB labeled F5

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

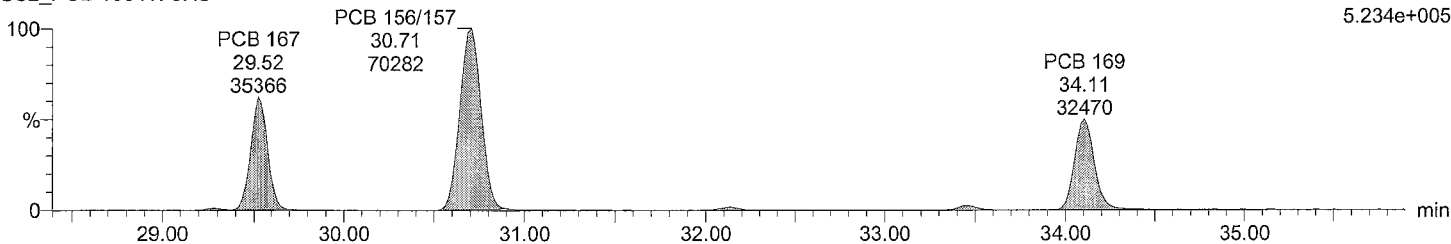
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

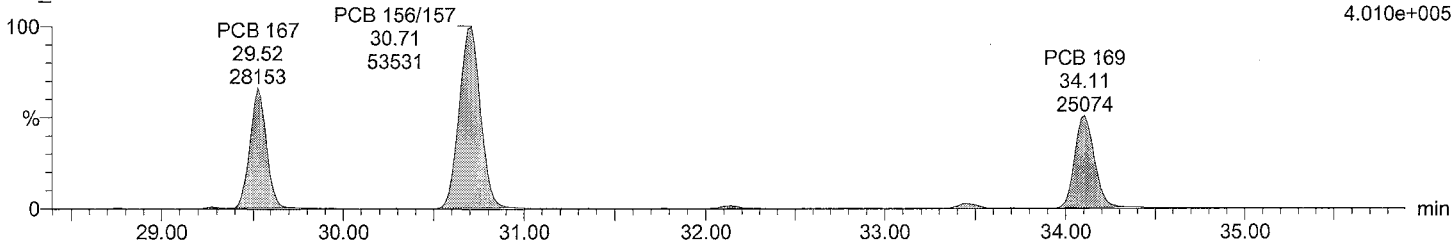
F6:SIR of 14 channels,EI+  
359.8415  
5.234e+005



Total HxCB F6

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

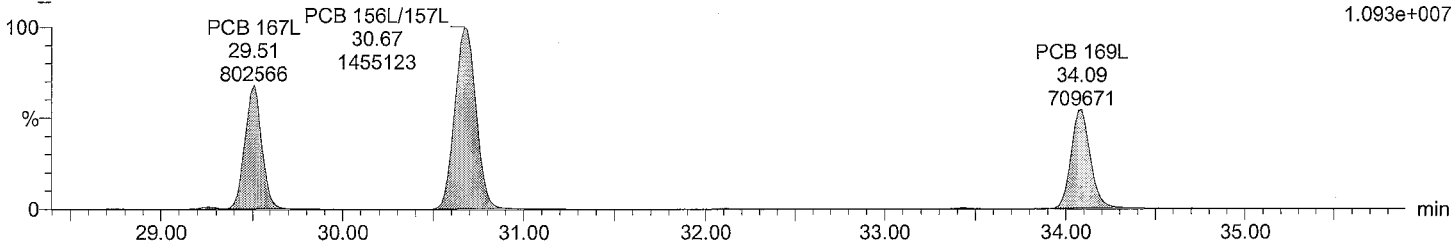
F6:SIR of 14 channels,EI+  
361.8385  
4.010e+005



Total HxCB labeled F6

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

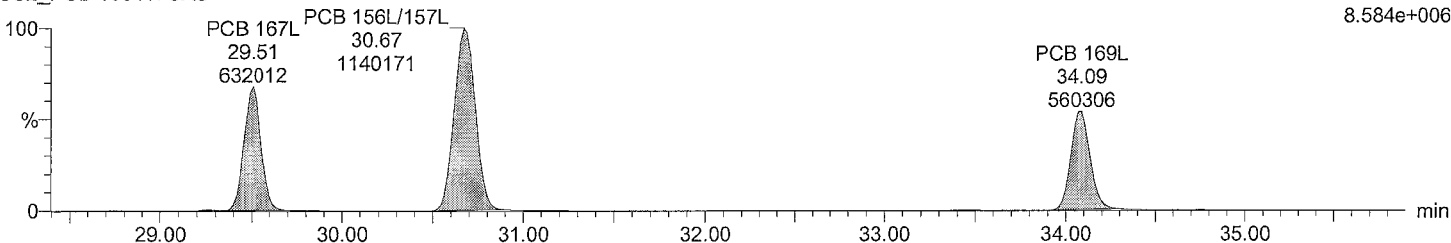
F6:SIR of 14 channels,EI+  
371.8817  
1.093e+007



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

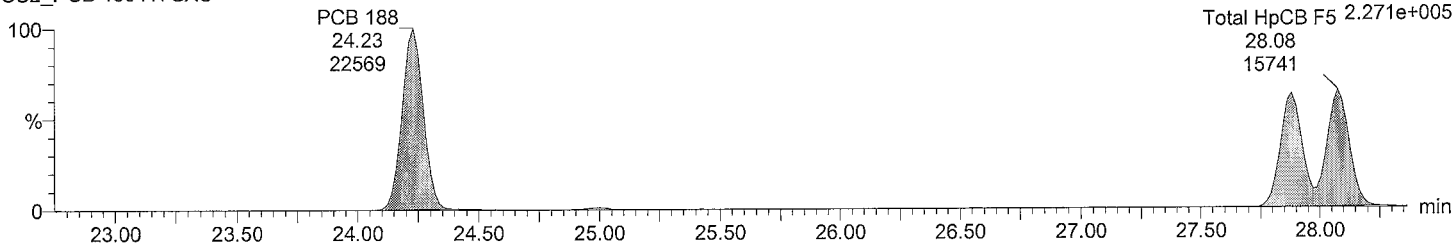
Time: 19:33:17

Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

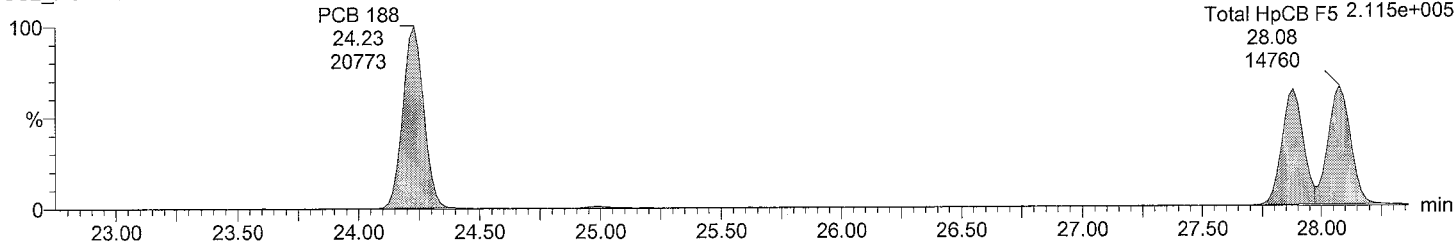
F5:SIR of 14 channels,EI+  
393.8025  
Total HpCB F5 2.271e+005  
28.08  
15741



Total HpCB F5

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

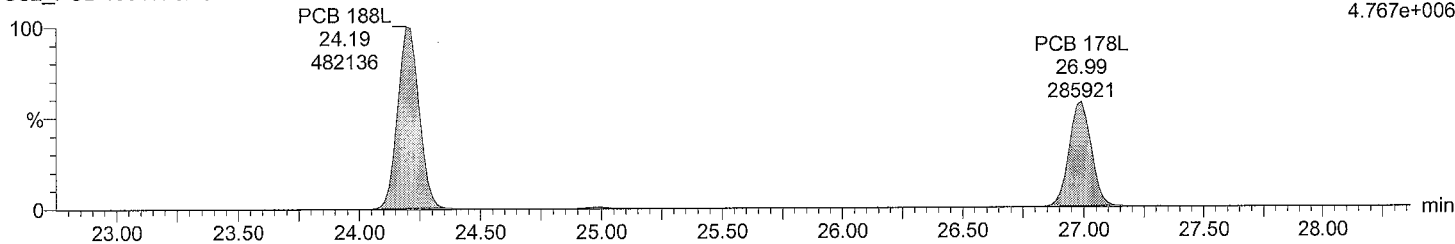
F5:SIR of 14 channels,EI+  
395.7995  
Total HpCB F5 2.115e+005  
28.08  
14760



Total HpCB labeled F5

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

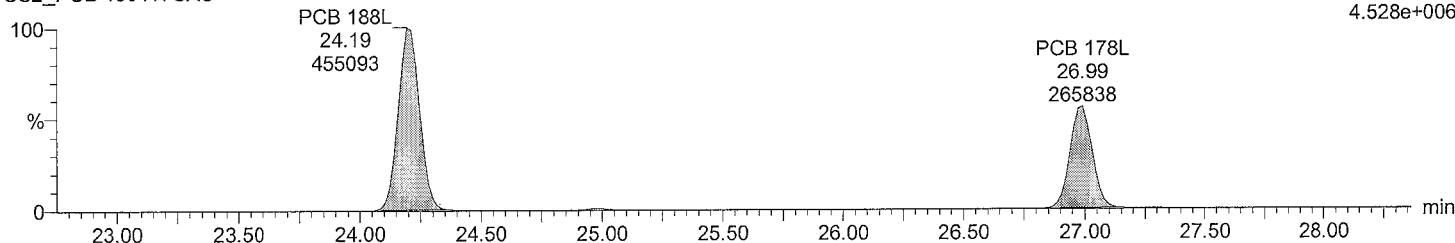
F5:SIR of 14 channels,EI+  
405.8428  
4.767e+006



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

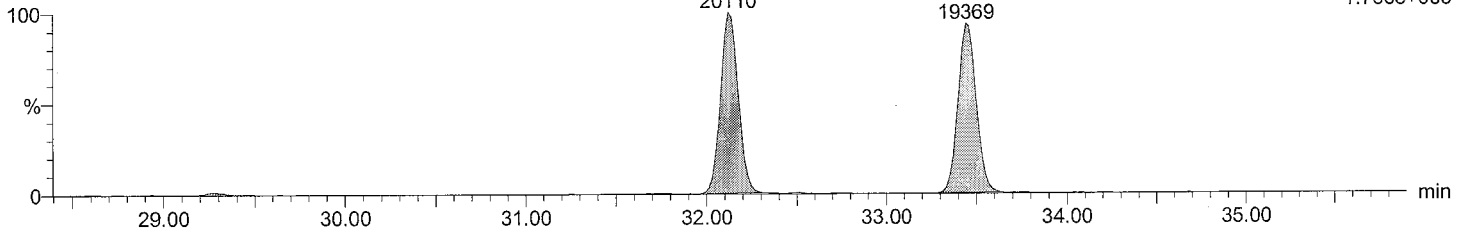
Total HpCB F6

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



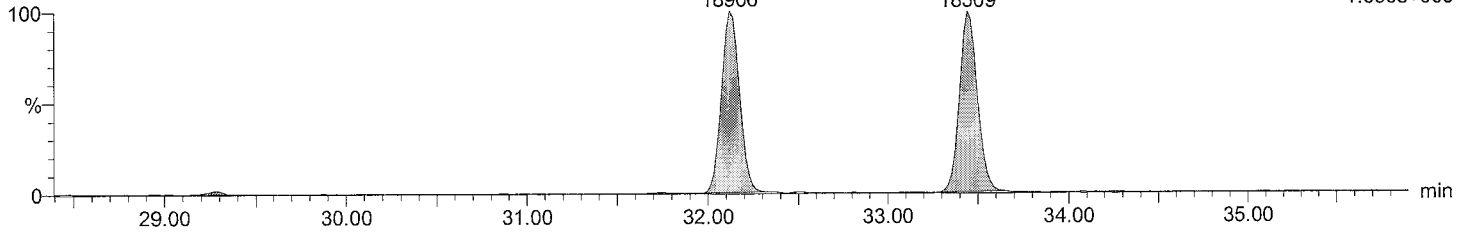
Total HpCB F6

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



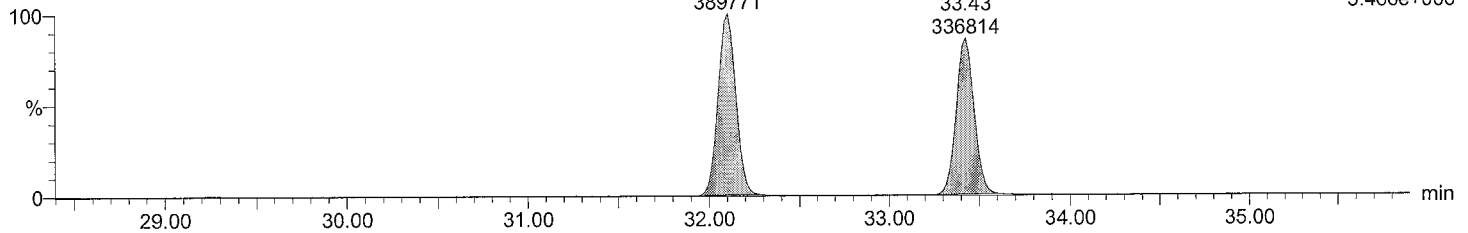
Total HpCB labeled F6

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



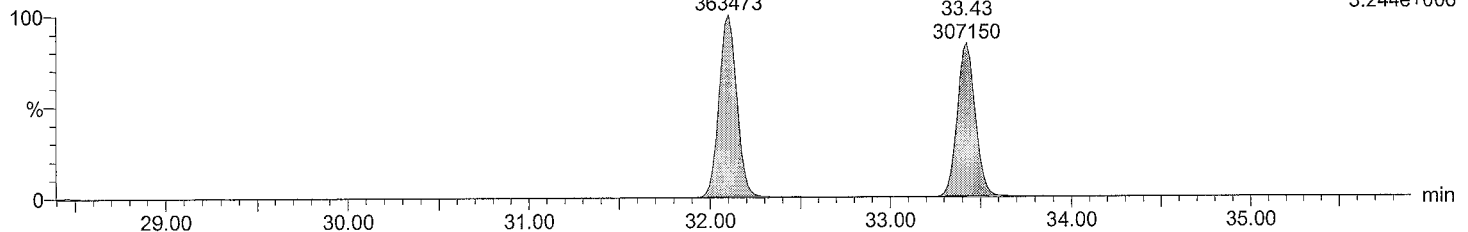
Total HpCB labeled F6

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



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

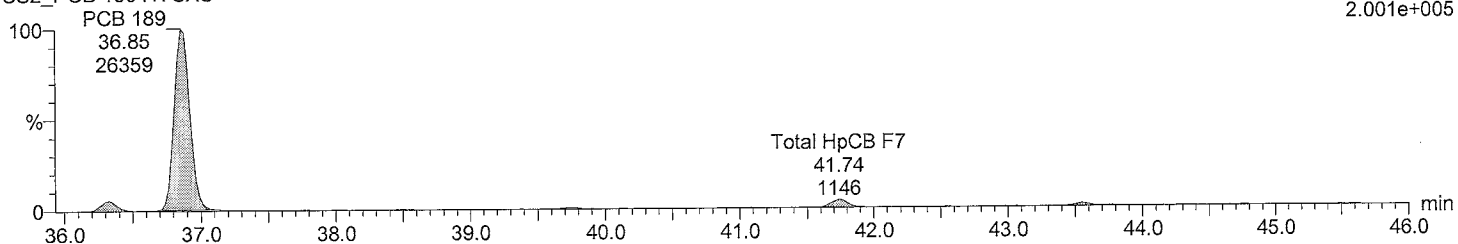
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS2\_PCB 150417CXU  
Vial: 3  
Date: 11-FEB-2016  
Time: 19:33:17  
Instrument: Autospec-UltimaE

**Total HpCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

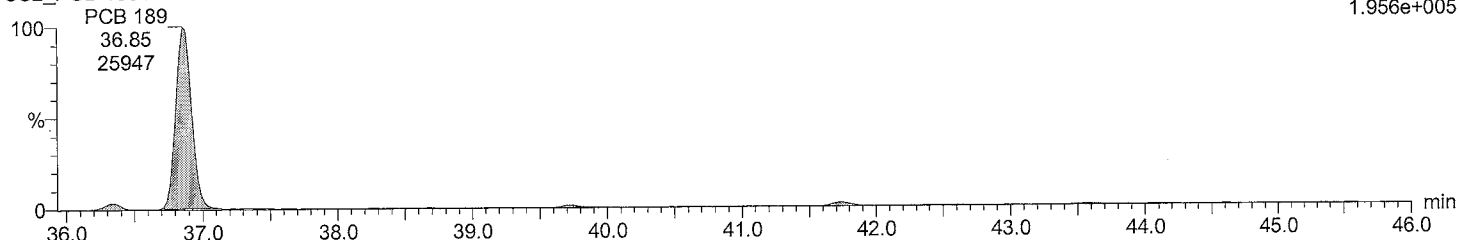
F7:SIR of 18 channels,EI+  
393.8025  
2.001e+005



**Total HpCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

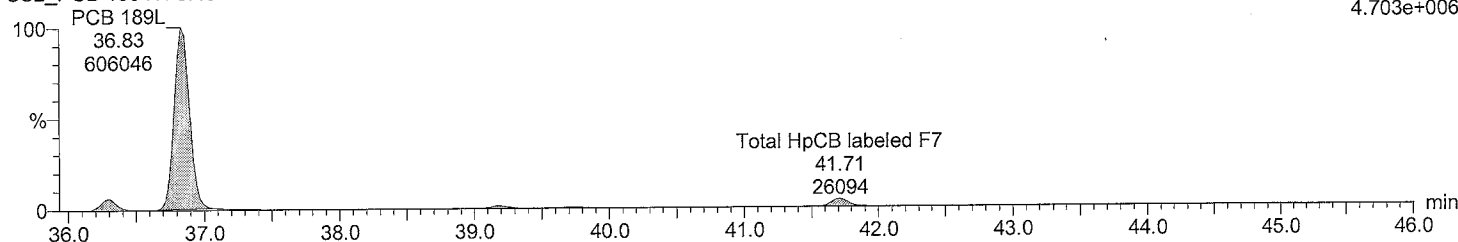
F7:SIR of 18 channels,EI+  
395.7995  
1.956e+005



**Total HpCB labeled F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

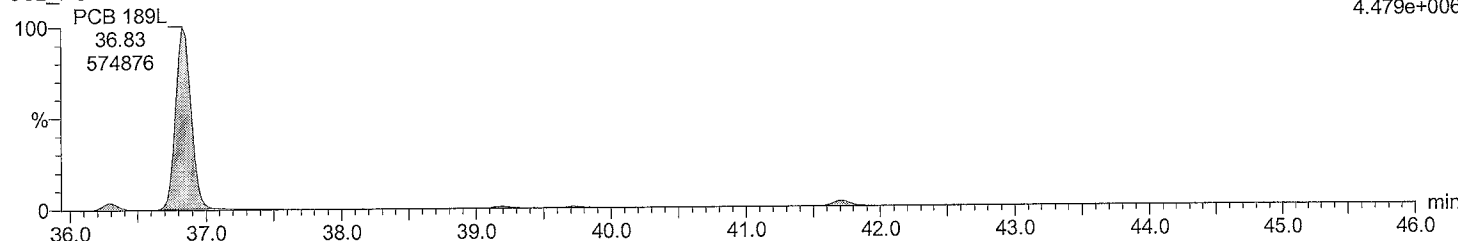
F7:SIR of 18 channels,EI+  
405.8428  
4.703e+006



**Total HpCB labeled F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
407.8398  
4.479e+006



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 OcCB F6

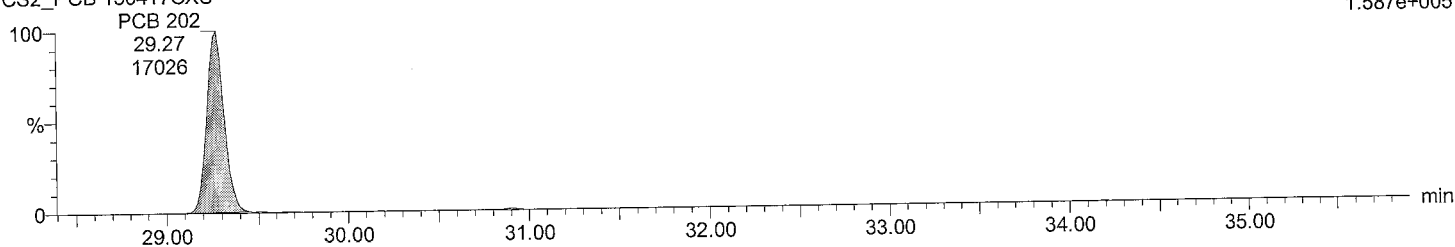
M2160211AS003 Smooth(SG,3x1)

CS2\_PCB 150417CXU

F6:SIR of 14 channels, EI+

427.7635

1.587e+005



Total OcCB F6

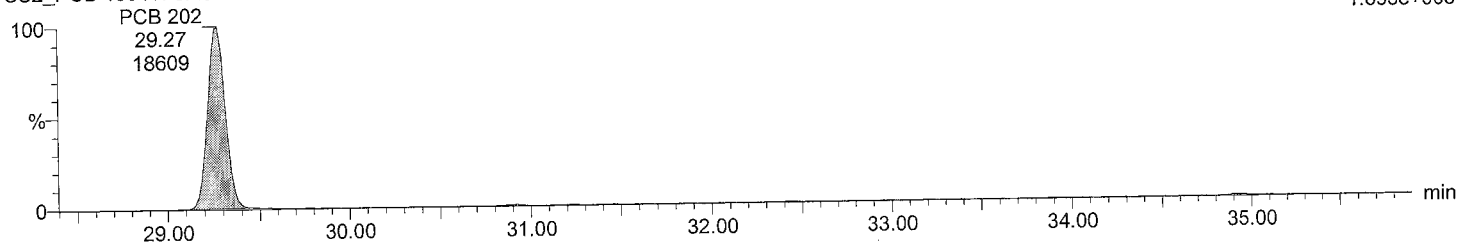
M2160211AS003 Smooth(SG,3x1)

CS2\_PCB 150417CXU

F6:SIR of 14 channels, EI+

429.7606

1.693e+005



Total OcCB labeled F6

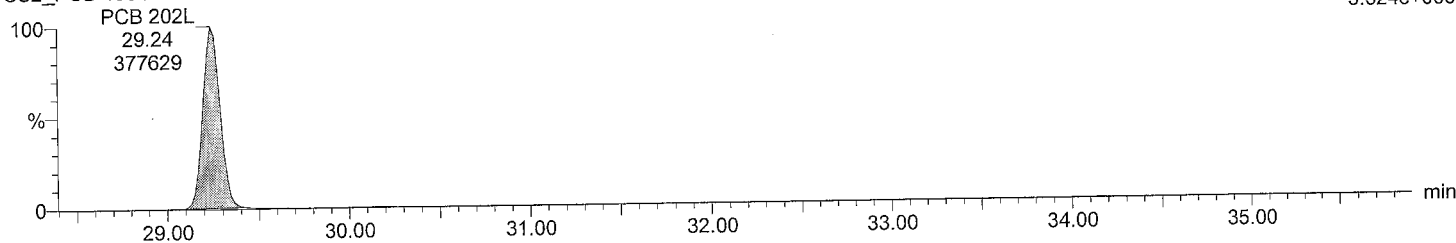
M2160211AS003 Smooth(SG,3x1)

CS2\_PCB 150417CXU

F6:SIR of 14 channels, EI+

439.8038

3.524e+006



Total OcCB labeled F6

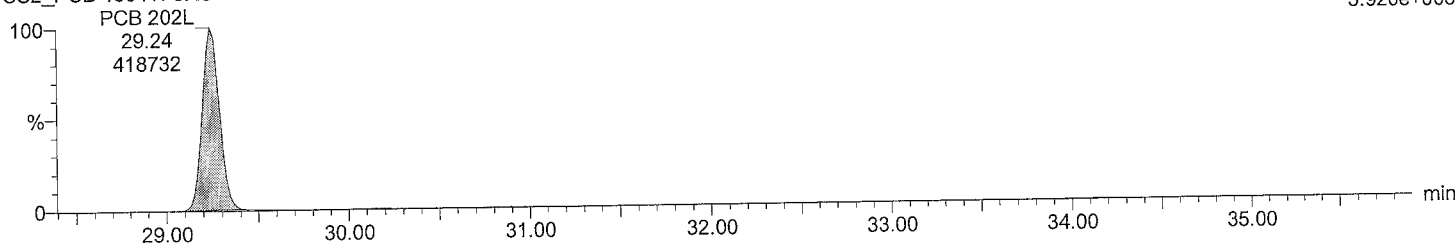
M2160211AS003 Smooth(SG,3x1)

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**

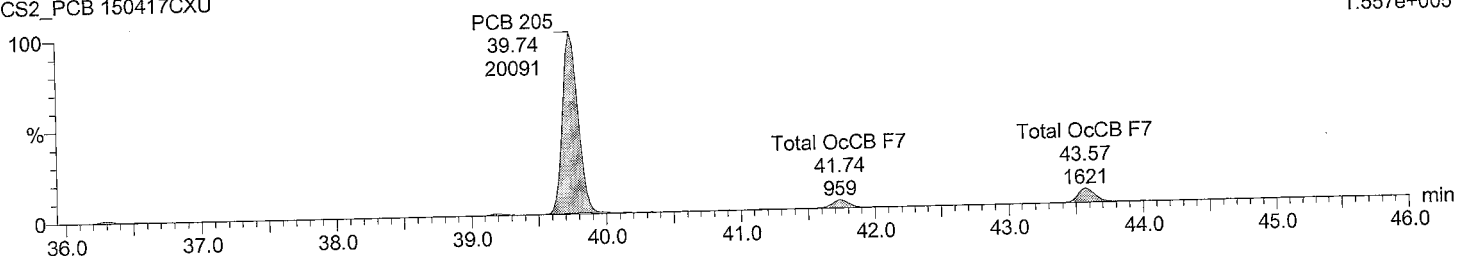
**Time: 19:33:17**

**Instrument: Autospec-UltimaE**

**Total OoCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

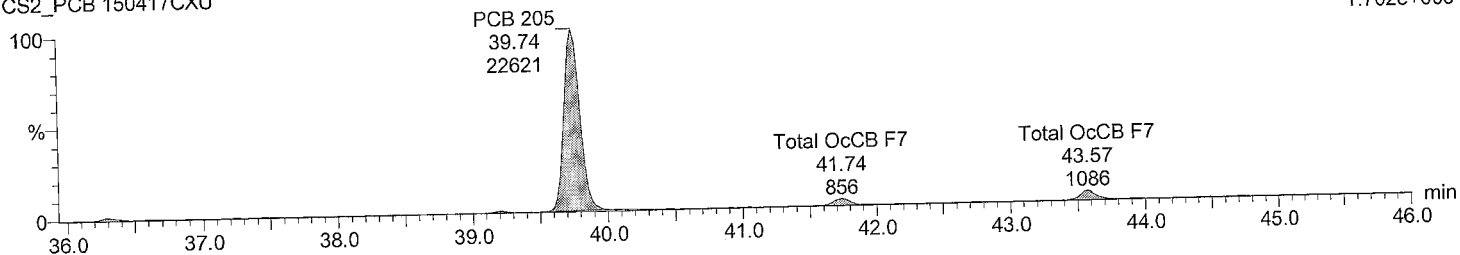
F7:SIR of 18 channels, EI+  
427.7635  
1.557e+005



**Total OoCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

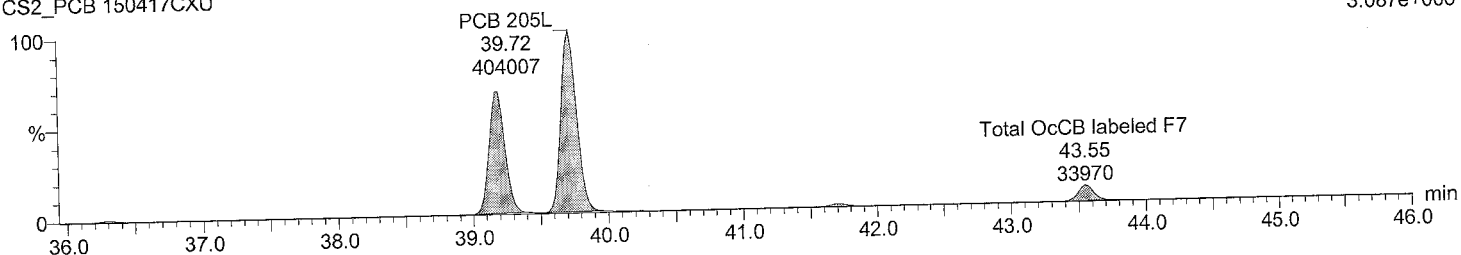
F7:SIR of 18 channels, EI+  
429.7606  
1.702e+005



**Total OoCB labeled F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

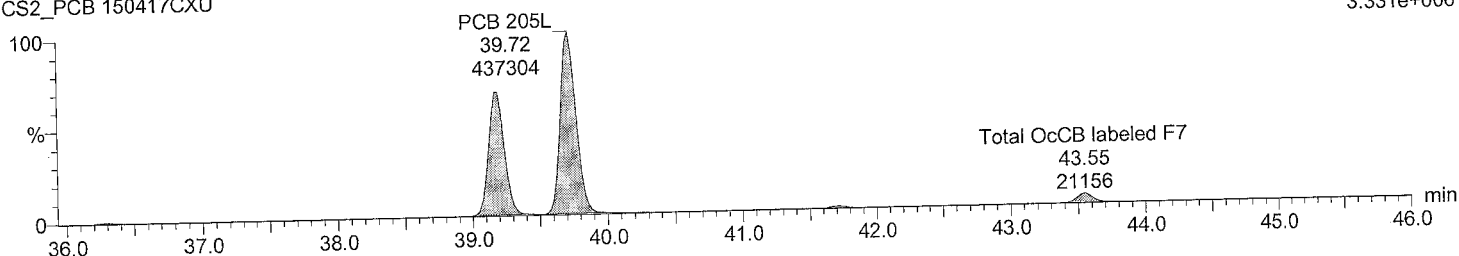
F7:SIR of 18 channels, EI+  
439.8038  
3.087e+006



**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**

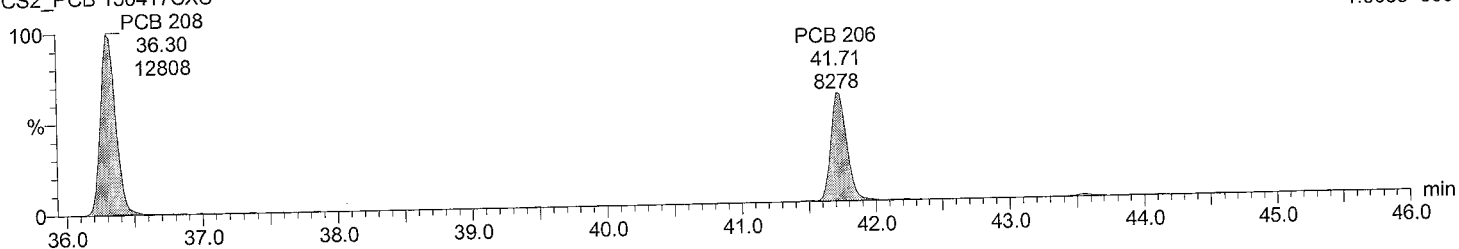
**Time: 19:33:17**

**Instrument: Autospec-UltimaE**

**Total NoCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

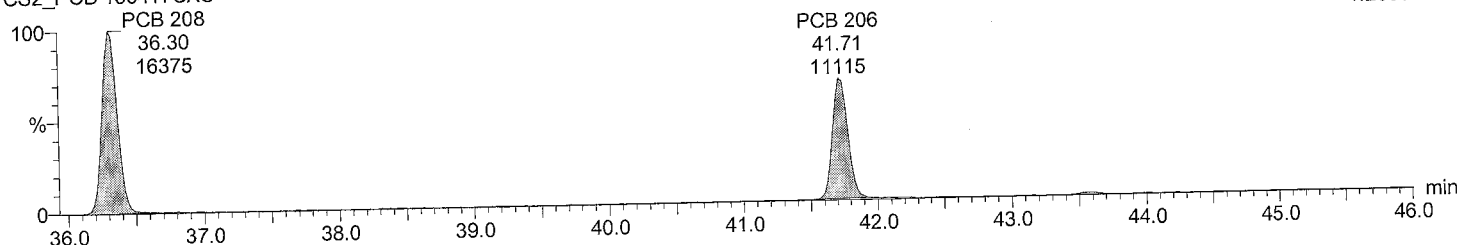
F7:SIR of 18 channels, EI+  
461.7246  
1.003e+005



**Total NoCB F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

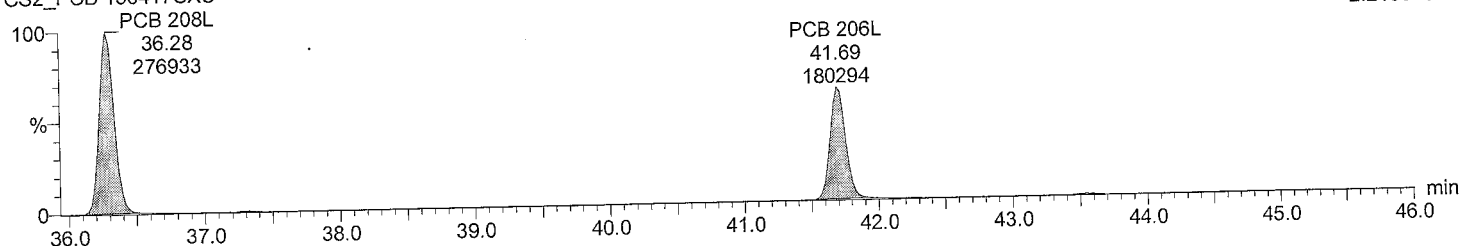
F7:SIR of 18 channels, EI+  
463.7216  
1.260e+005



**Total NoCB labeled F7**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

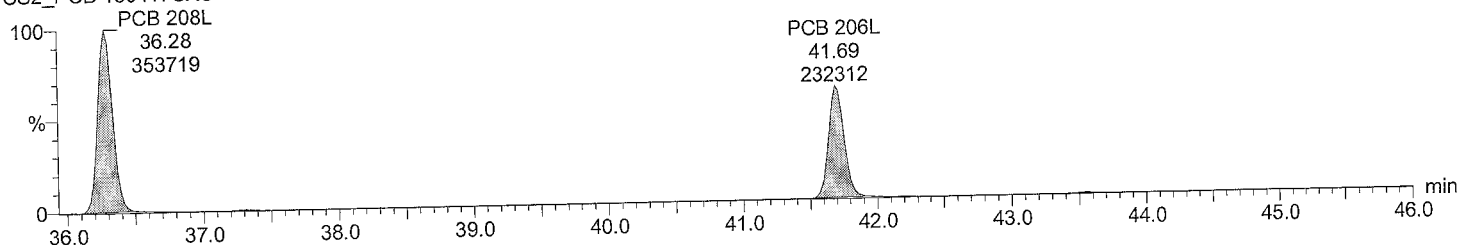
F7:SIR of 18 channels, EI+  
473.7648  
2.213e+006



**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

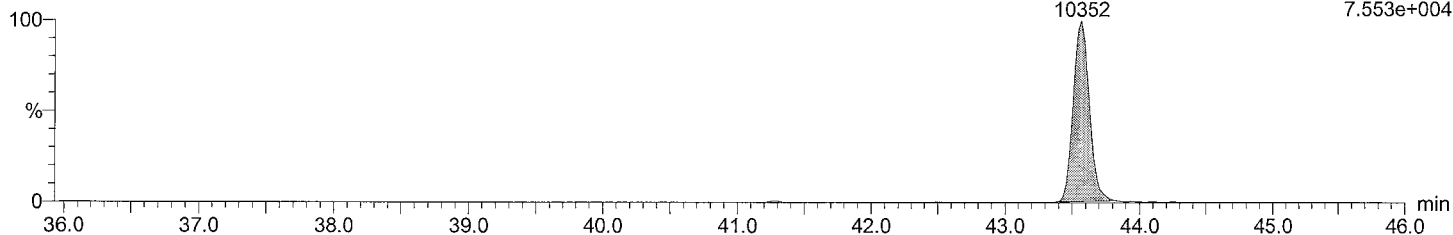
Time: 19:33:17

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

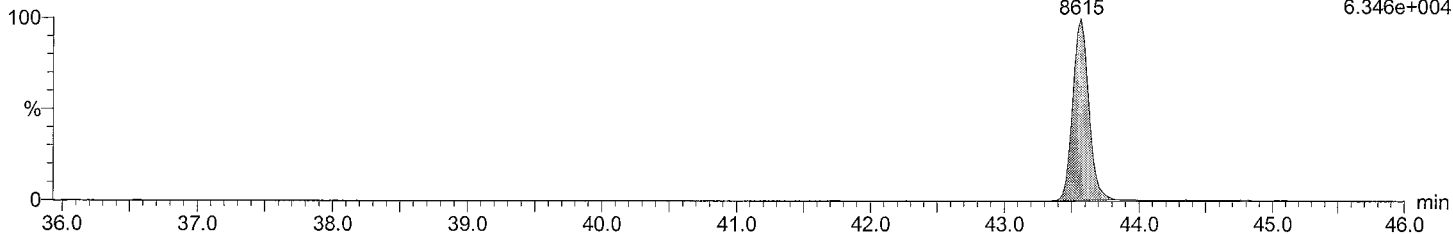
PCB 209  
43.57  
10352  
F7:SIR of 18 channels,EI+  
497.6826  
7.553e+004



Total DeCB F7

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

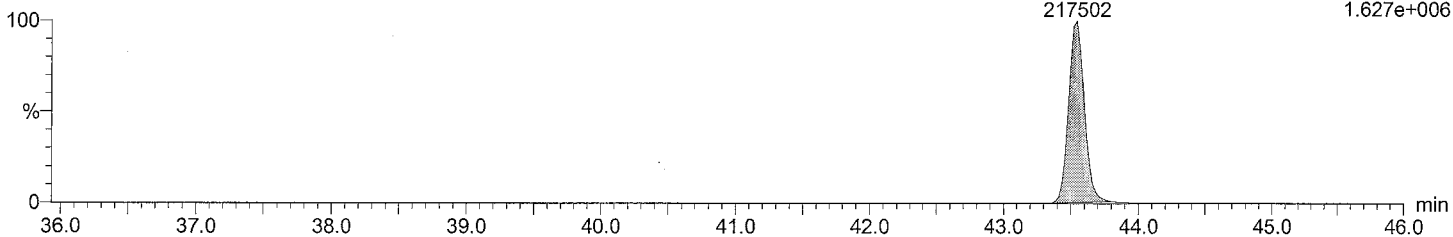
PCB 209  
43.57  
8615  
F7:SIR of 18 channels,EI+  
499.6797  
6.346e+004



Total DeCB labeled F7

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

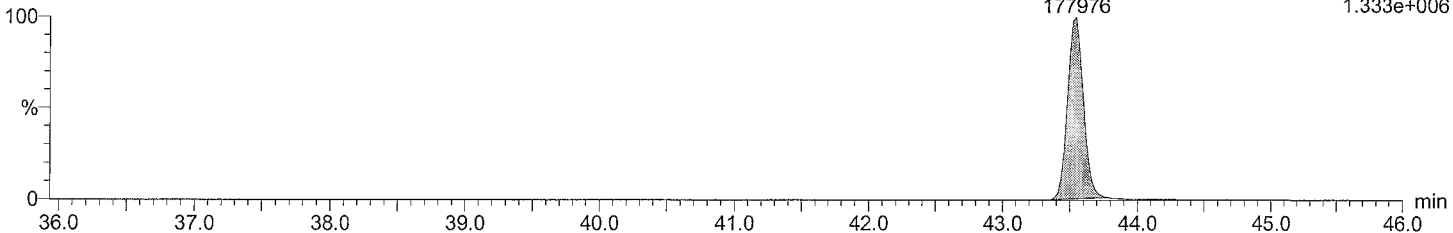
PCB 209L  
43.55  
217502  
F7:SIR of 18 channels,EI+  
509.7229  
1.627e+006



Total DeCB labeled F7

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

PCB 209L  
43.55  
177976  
F7:SIR of 18 channels,EI+  
511.7199  
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

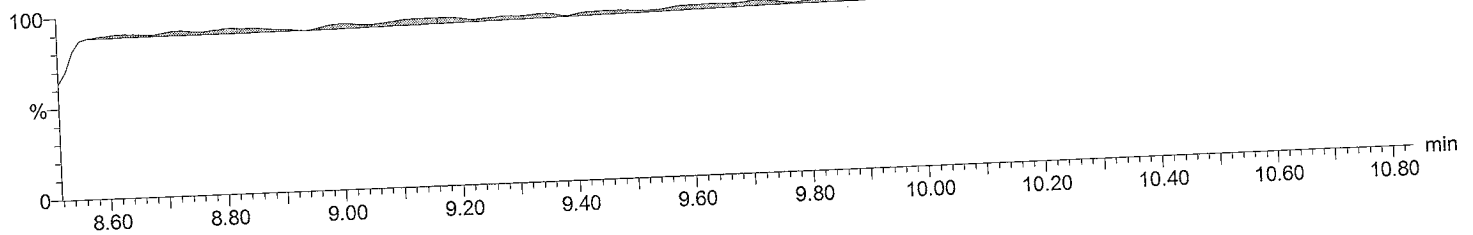
Time: 19:33:17

Instrument: Autospec-UltimaE

**lockmass F1**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

F1:SIR of 10 channels, EI+  
218.9856  
4.484e+006

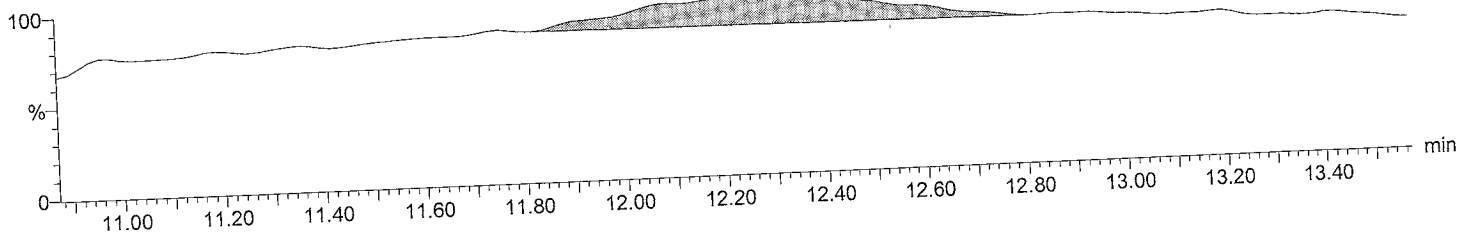


**lockmass F2**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

lockmass F2  
12.27  
164116

F2:SIR of 16 channels, EI+  
242.9856  
1.764e+006

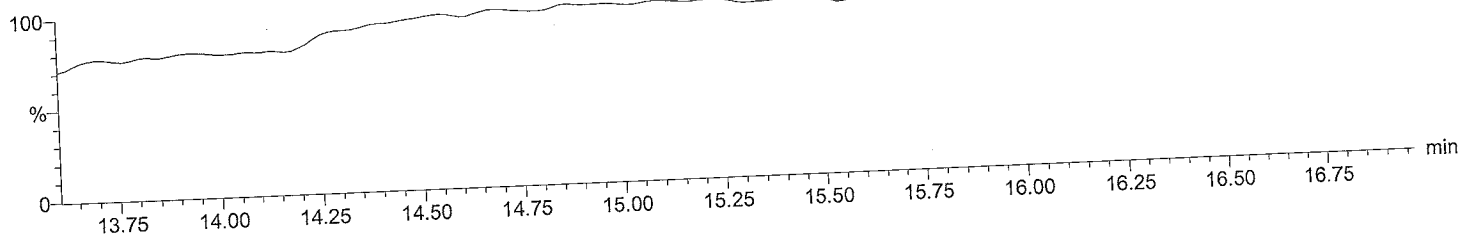


**lockmass F3**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU

15.45 15.66 15.81

F3:SIR of 14 channels, EI+  
292.9824  
1.377e+006

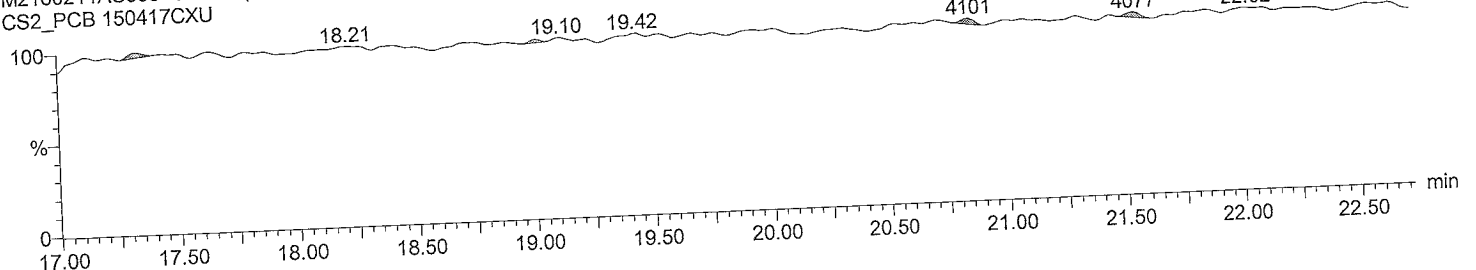


**lockmass F4**

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

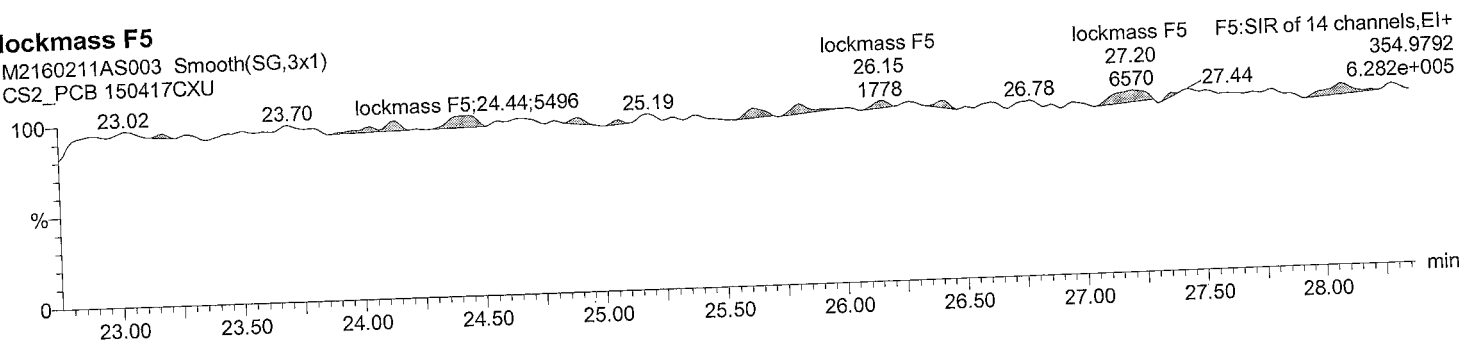
Date: 11-FEB-2016

Time: 19:33:17

Instrument: Autospec-UltimaE

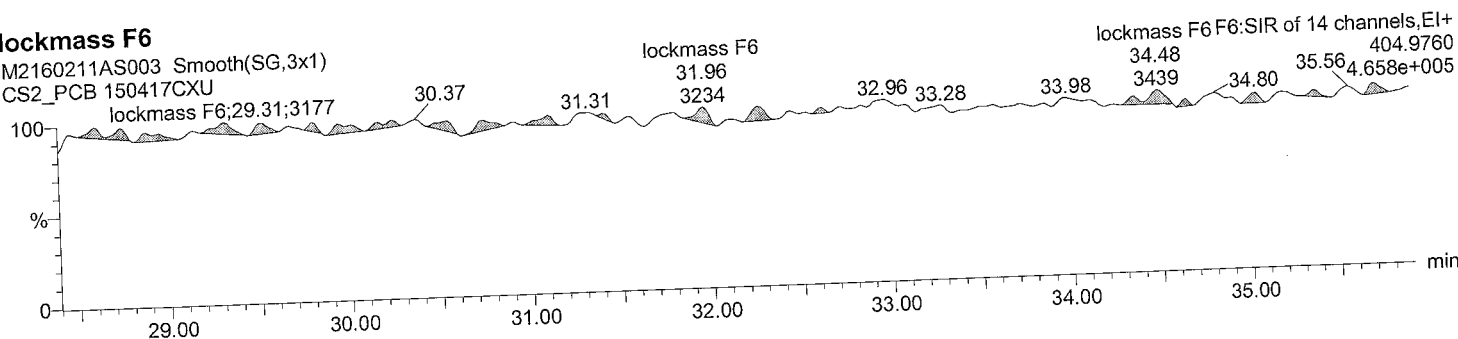
**lockmass F5**

M2160211AS003 Smooth(SG,3x1)  
CS2\_PCB 150417CXU



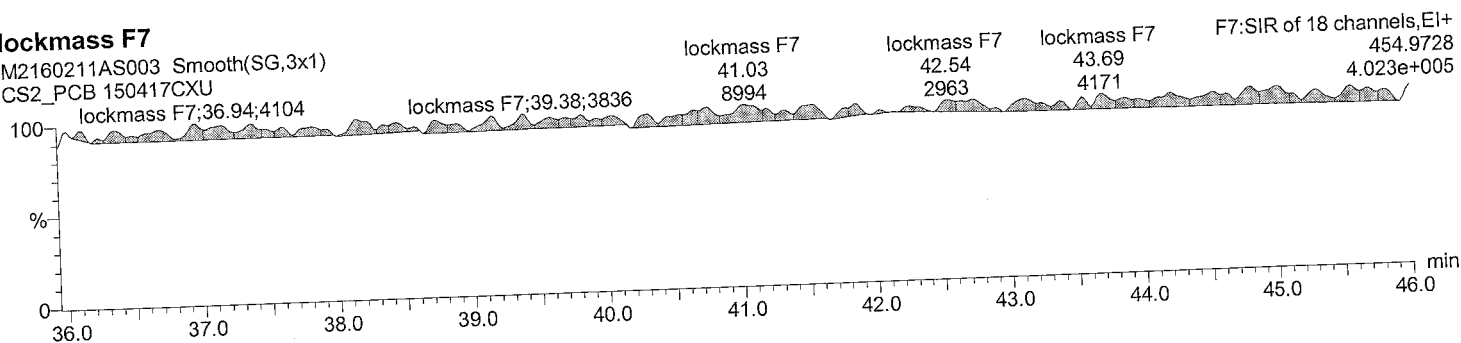
**lockmass F6**

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

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: 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

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
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

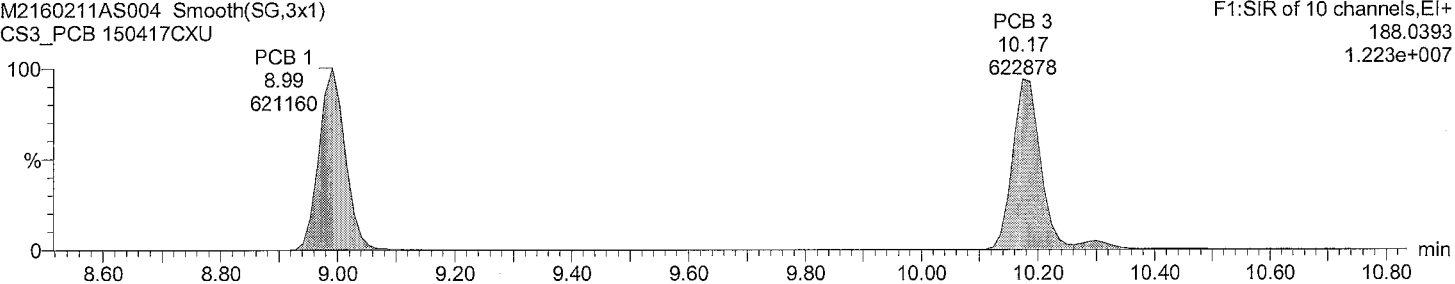
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

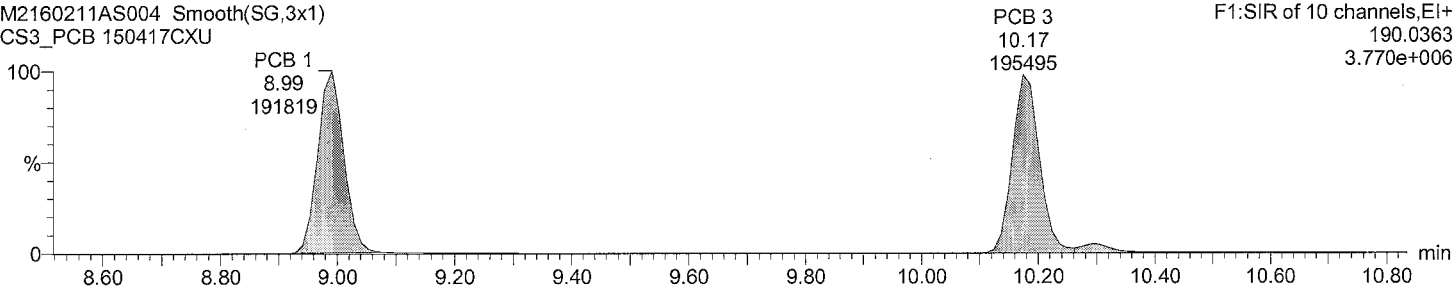
F1:SIR of 10 channels,EI+  
188.0393  
1.223e+007



Total MoCB F1

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

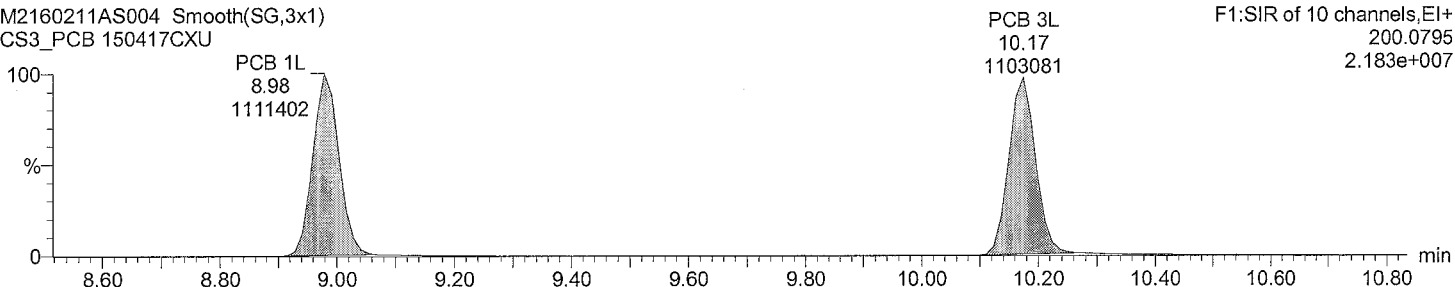
F1:SIR of 10 channels,EI+  
190.0363  
3.770e+006



Total MoCB labeled F1

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

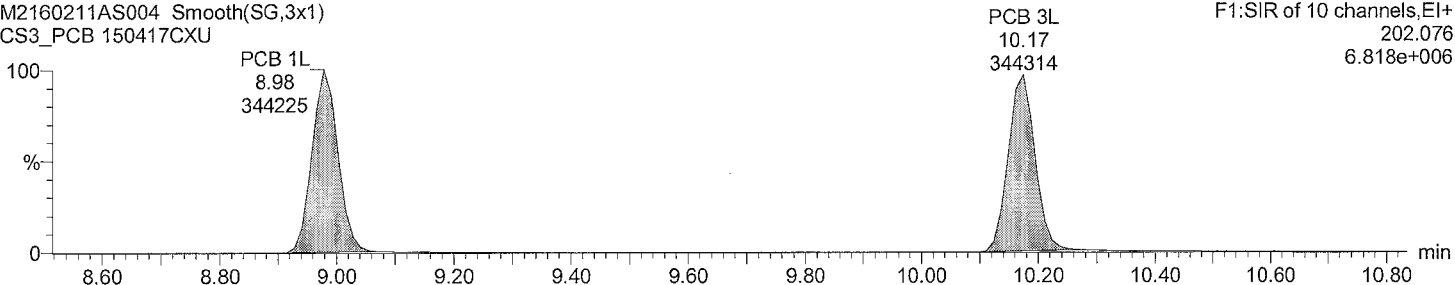
F1:SIR of 10 channels,EI+  
200.0795  
2.183e+007



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

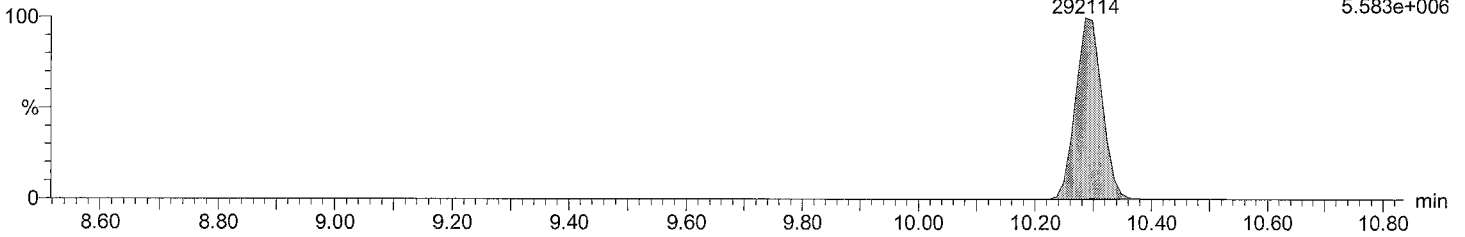
Time: 20:23:30

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

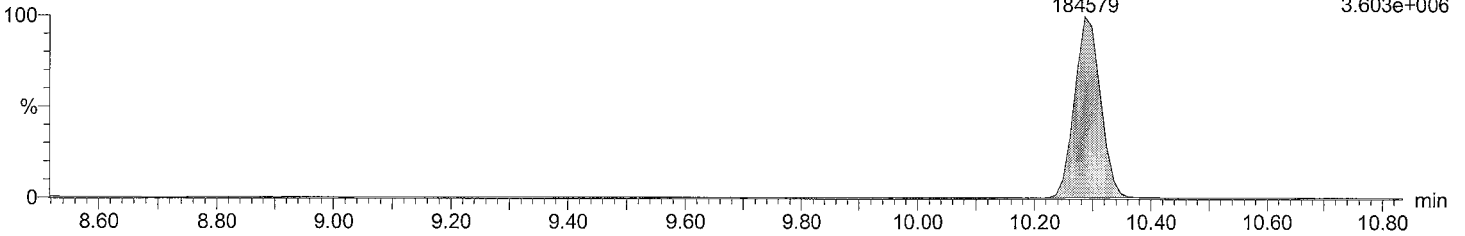
PCB 4  
10.29  
292114  
F1:SIR of 10 channels,EI+  
222.0003  
5.583e+006



Total DiCB F1

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

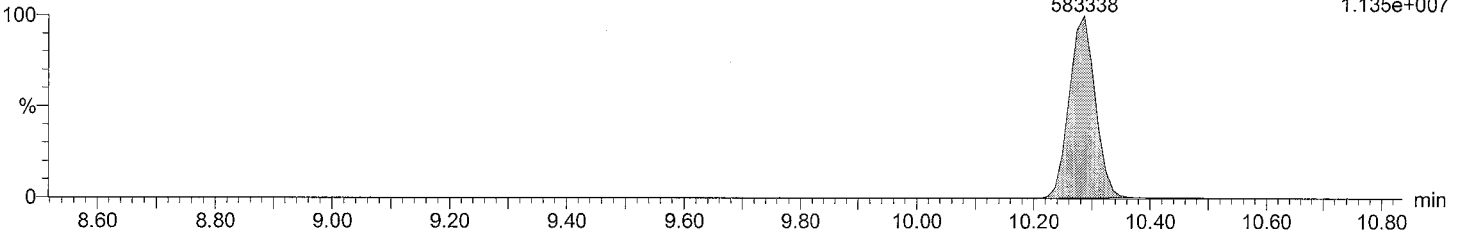
PCB 4  
10.29  
184579  
F1:SIR of 10 channels,EI+  
223.9974  
3.603e+006



Total DiCB labeled F1

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

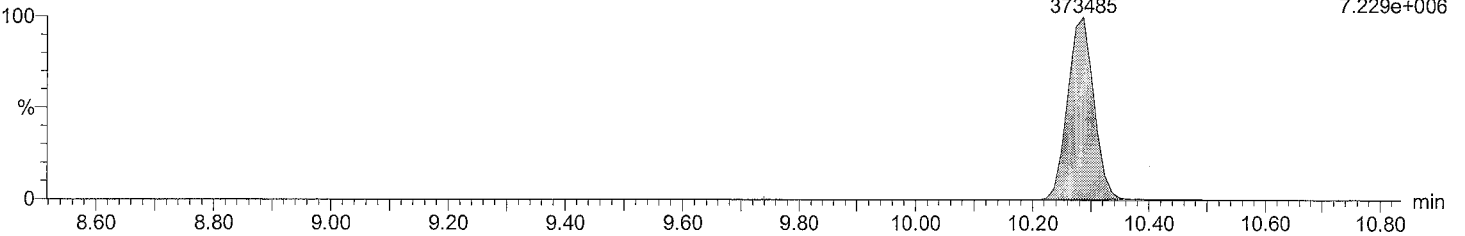
PCB 4L  
10.29  
583338  
F1:SIR of 10 channels,EI+  
234.0406  
1.135e+007



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





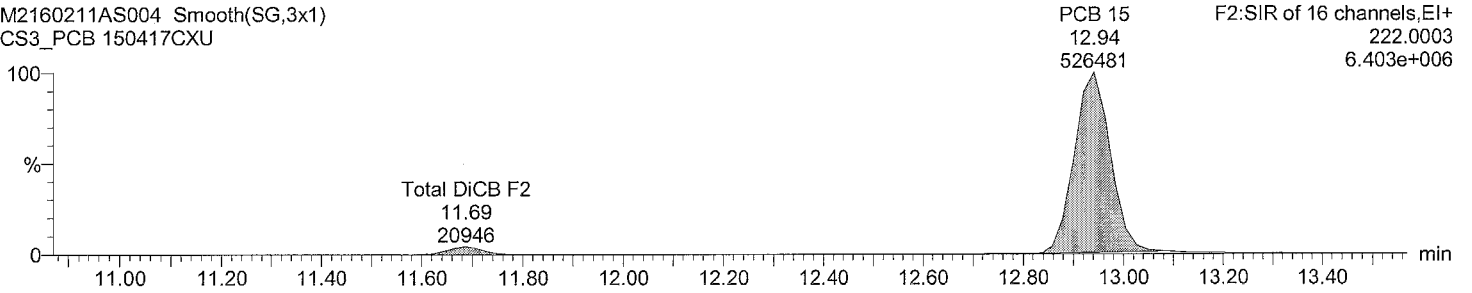
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

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

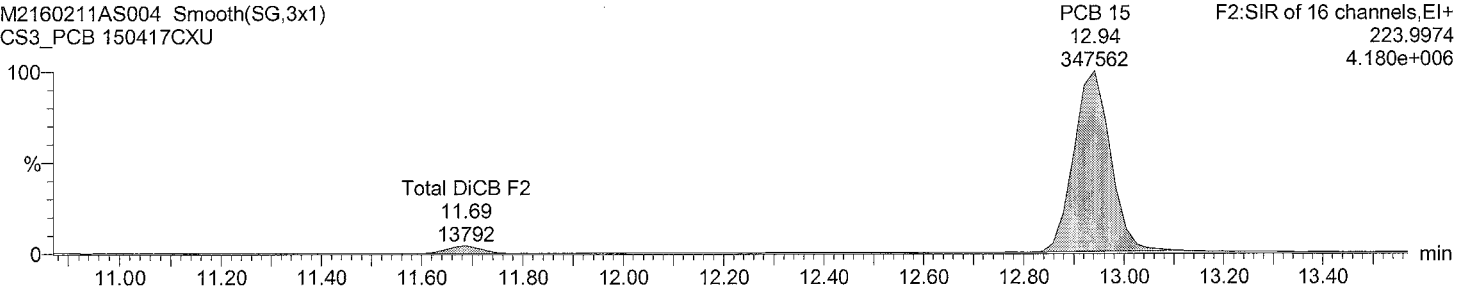
**Total DiCB F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



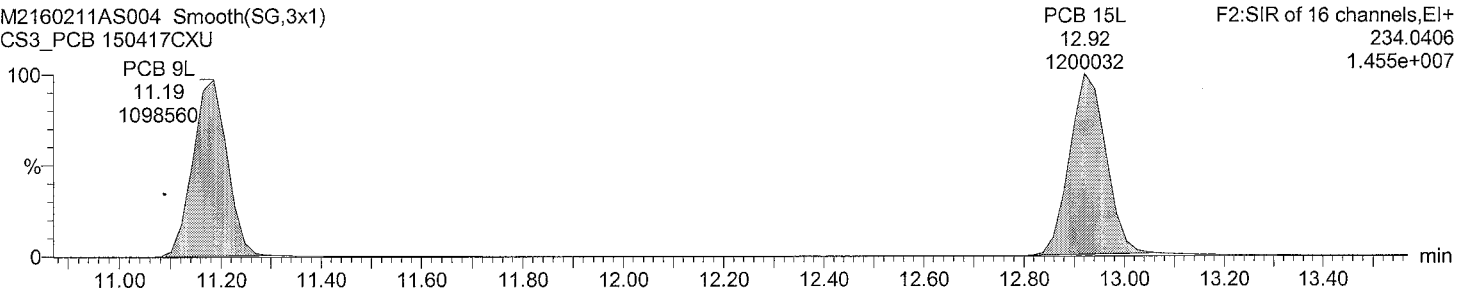
**Total DiCB F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



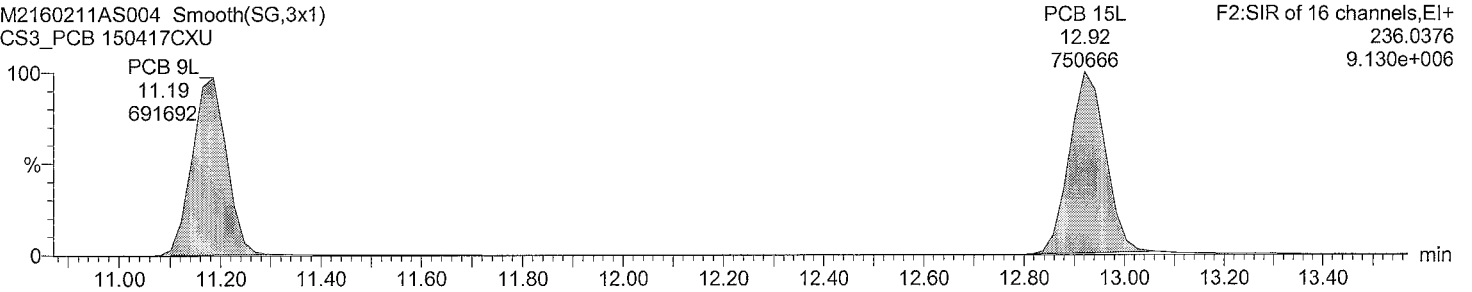
**Total DiCB labeled F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



**Total DiCB labeled F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

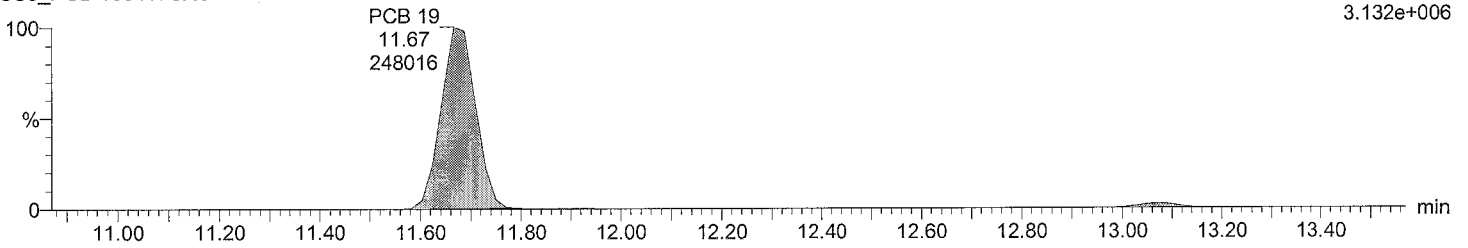
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: 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

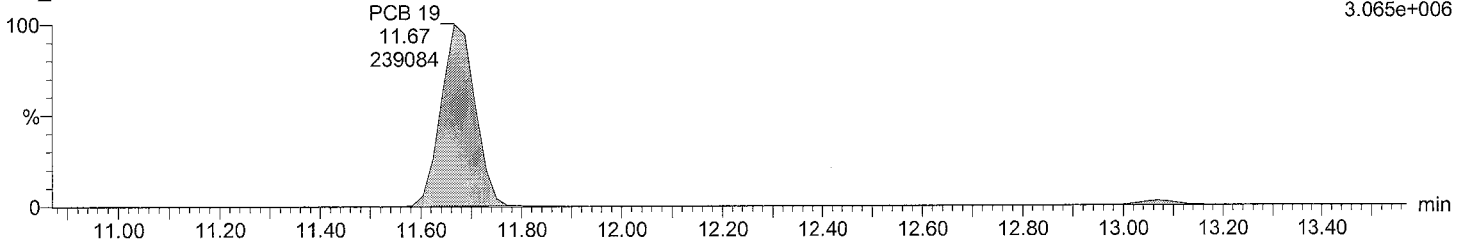
F2:SIR of 16 channels,EI+  
255.9614  
3.132e+006



Total TriCB F2

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

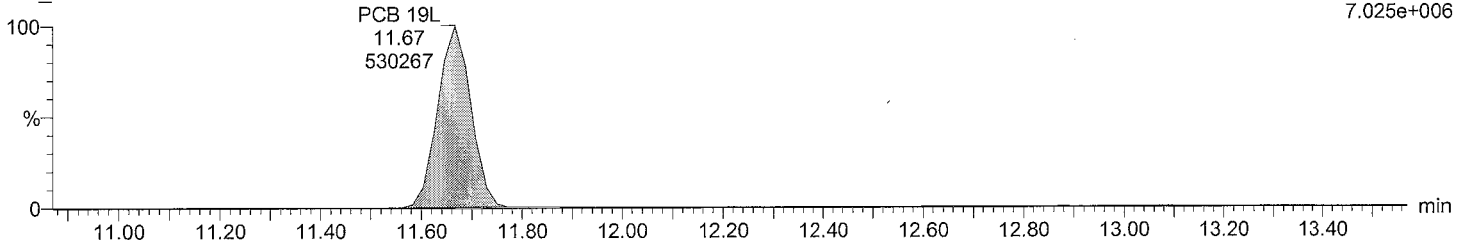
F2:SIR of 16 channels,EI+  
257.9584  
3.065e+006



Total TriCB labeled F2

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

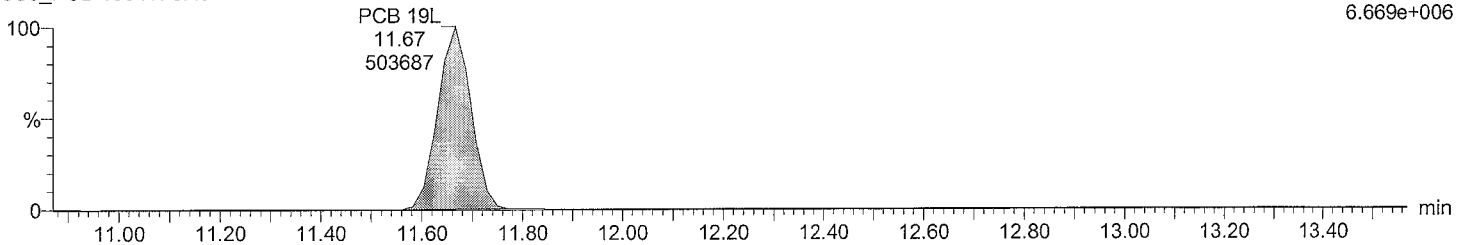
F2:SIR of 16 channels,EI+  
268.0016  
7.025e+006



Total TriCB labeled F2

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

F2:SIR of 16 channels,EI+  
269.9986  
6.669e+006



Acquired Date

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

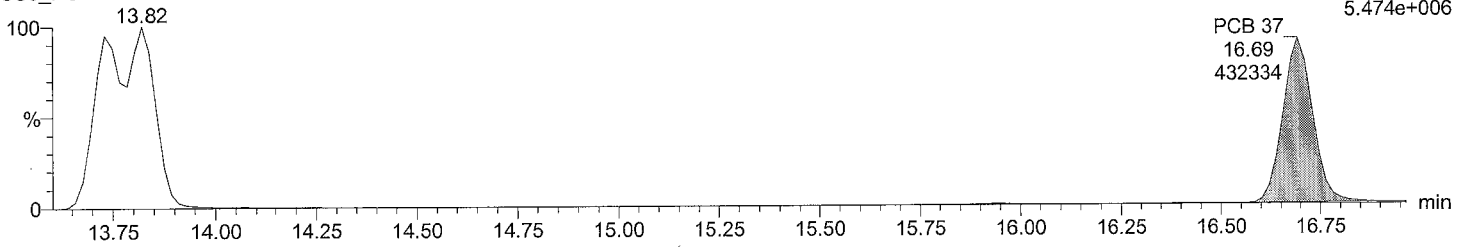
Time: 20:23:30

Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

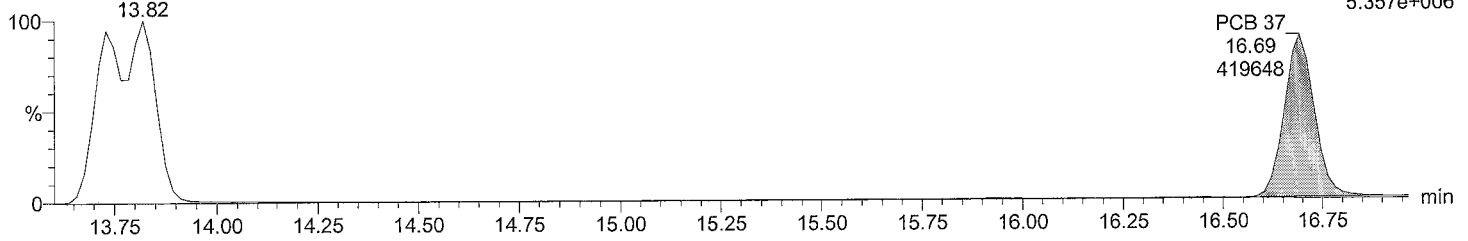
F3:SIR of 14 channels,EI+  
255.9614  
5.474e+006



Total TriCB F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

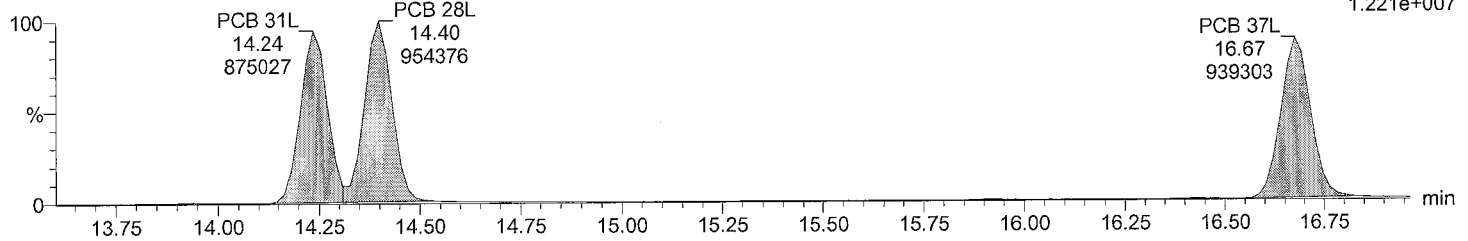
F3:SIR of 14 channels,EI+  
257.9584  
5.357e+006



Total TriCB labeled F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

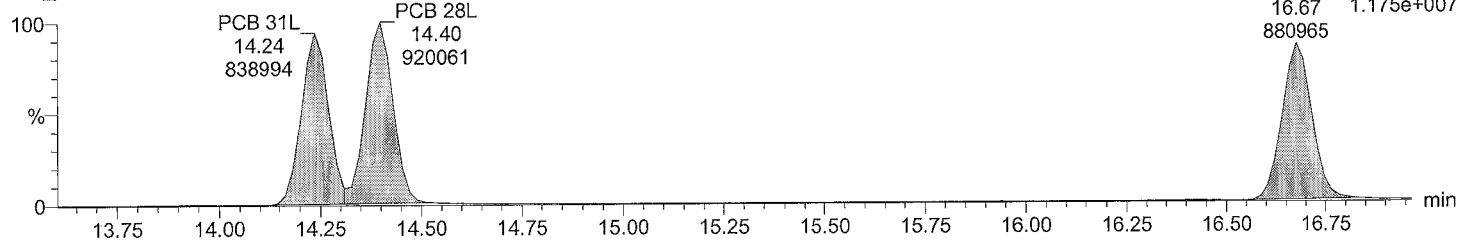
F3:SIR of 14 channels,EI+  
268.0016  
1.221e+007



Total TriCB labeled F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
PCB 37L 269.9986  
1.175e+007



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

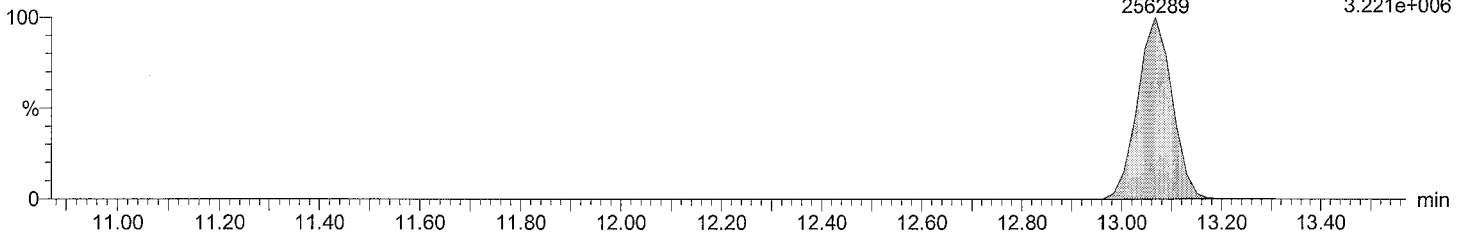
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: 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

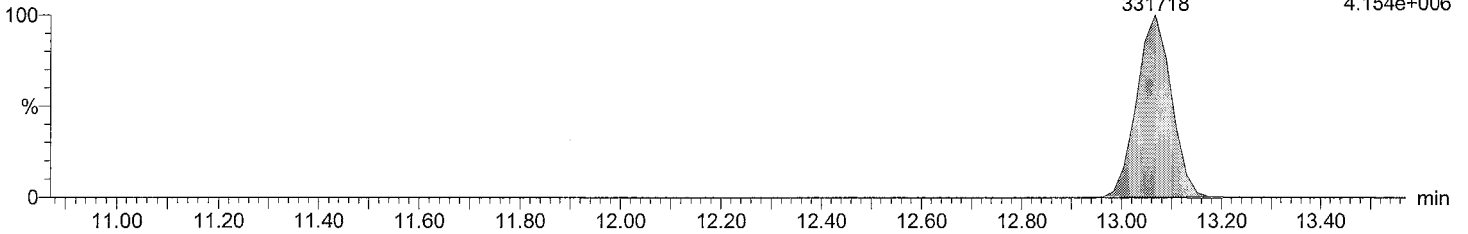
PCB 54 F2:SIR of 16 channels,EI+  
13.07 289.9224  
256289 3.221e+006



**Total TeCB F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

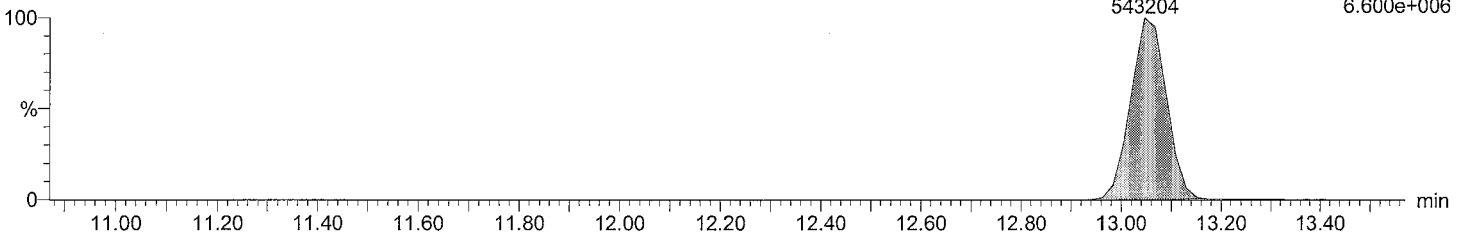
PCB 54 F2:SIR of 16 channels,EI+  
13.07 291.9194  
331718 4.154e+006



**Total TeCB labeled F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

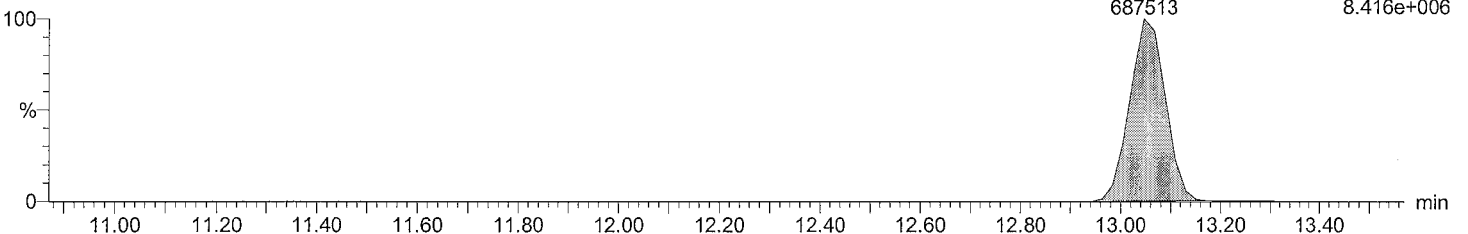
PCB 54L F2:SIR of 16 channels,EI+  
13.05 301.9626  
543204 6.600e+006



**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

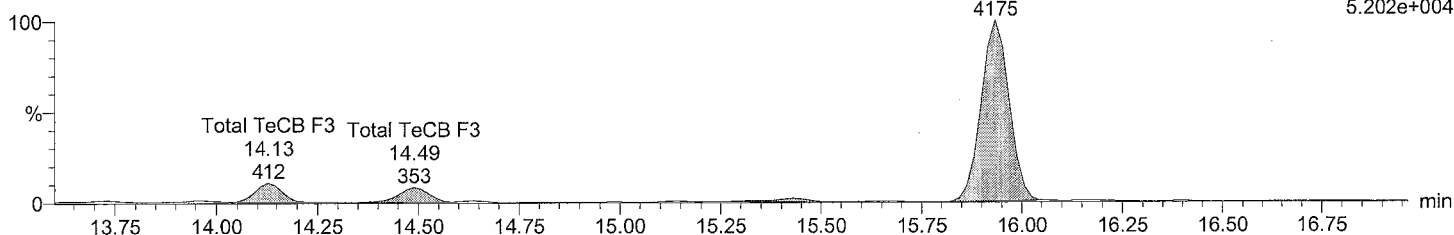
Vial: 4  
Date: 11-FEB-2016  
Time: 20:23:30  
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

Total TeCB F3  
15.94  
4175

F3:SIR of 14 channels,EI+  
289.9224  
5.202e+004

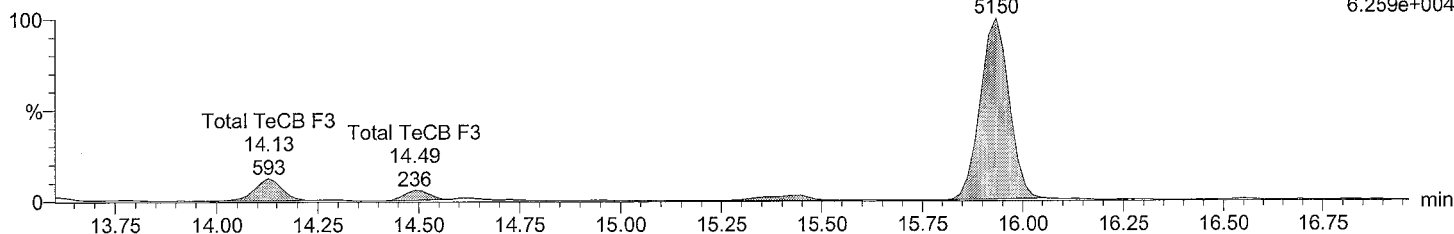


Total TeCB F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

Total TeCB F3  
15.94  
5150

F3:SIR of 14 channels,EI+  
291.9194  
6.259e+004

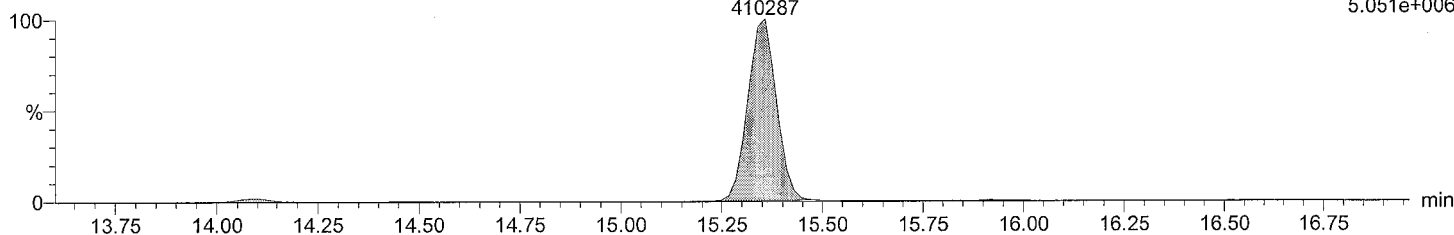


Total TeCB labeled F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 52L  
15.36  
410287

F3:SIR of 14 channels,EI+  
301.9626  
5.051e+006

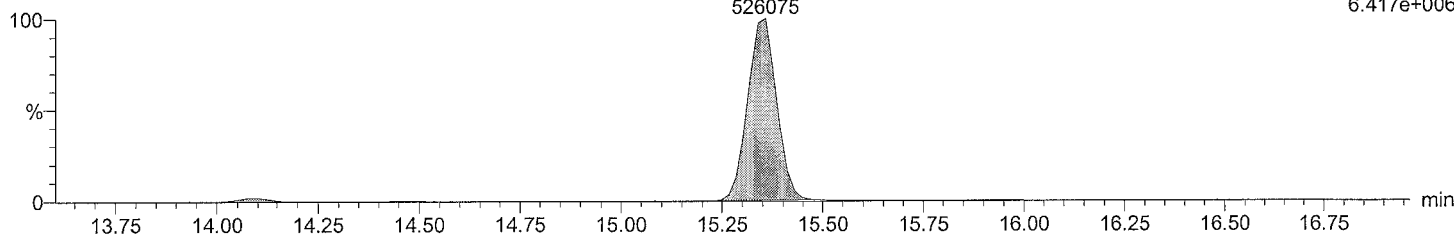


Total TeCB labeled F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 52L  
15.36  
526075

F3:SIR of 14 channels,EI+  
303.9597  
6.417e+006



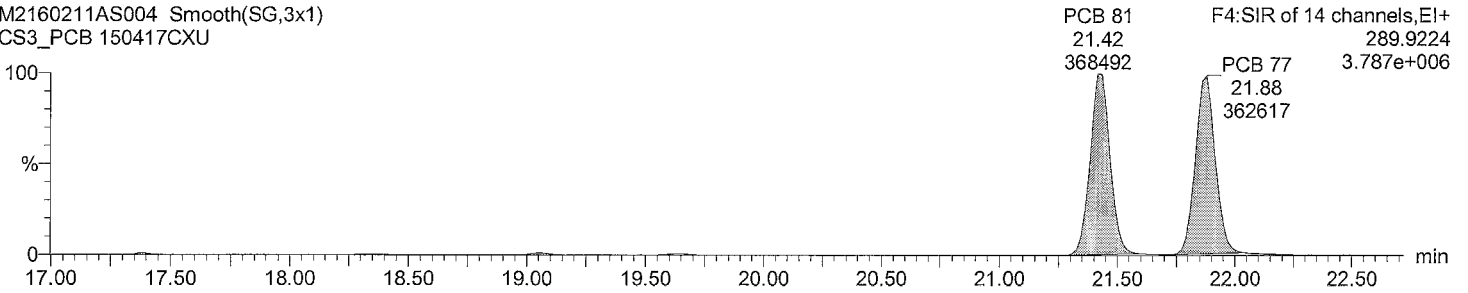
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

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

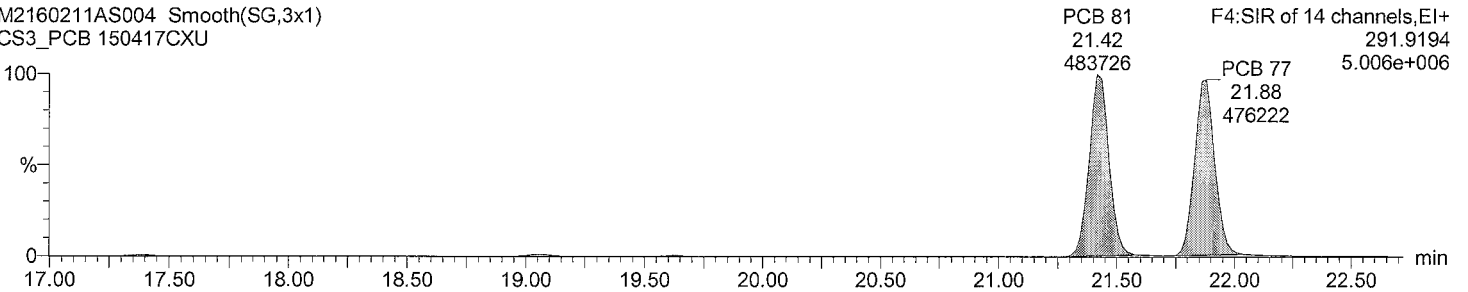
Total TeCB F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



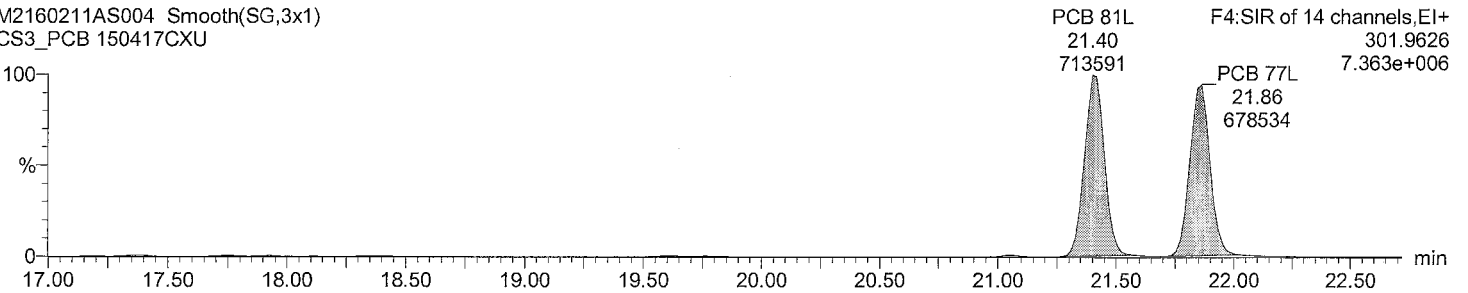
Total TeCB F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



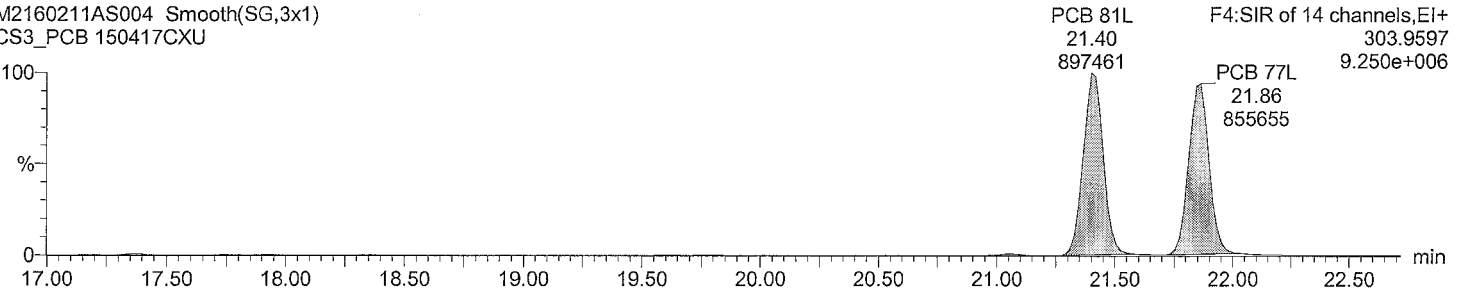
Total TeCB labeled F4

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

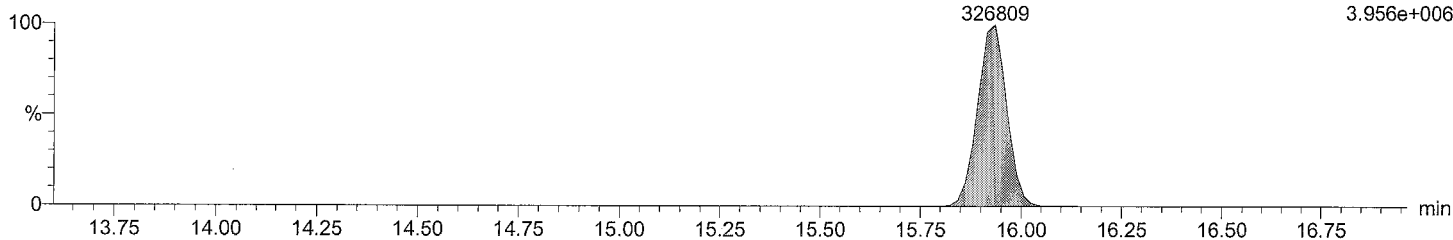
Instrument: Autospec-UltimaE

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

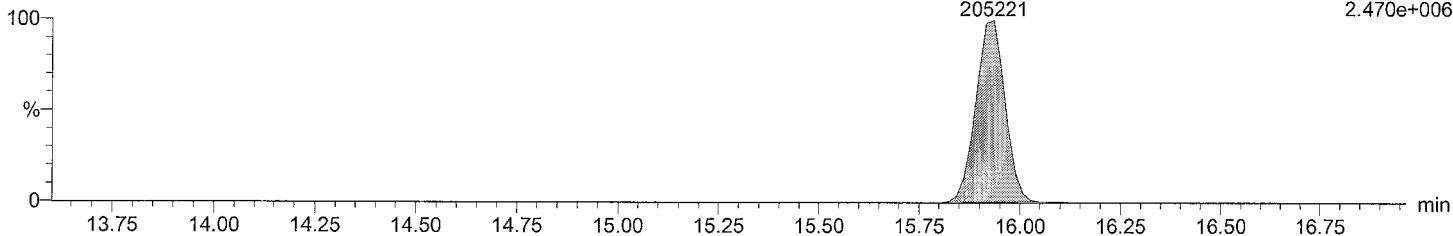


Total PeCB F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 104  
15.94  
205221

F3:SIR of 14 channels,EI+  
327.8775  
2.470e+006

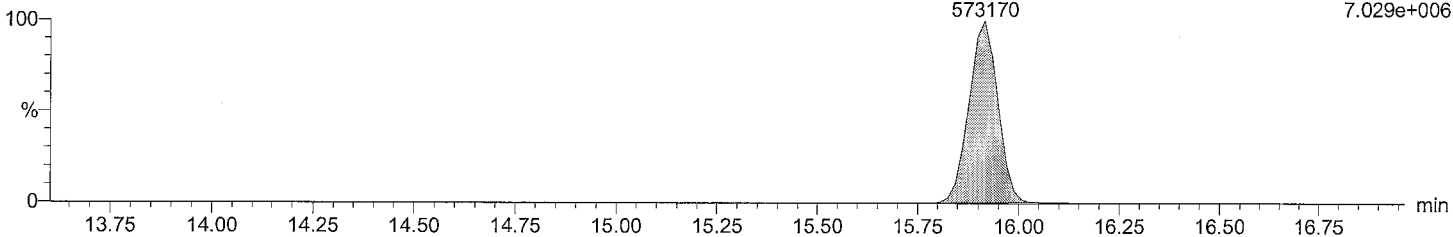


Total PeCB labeled F3

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 104L  
15.92  
573170

F3:SIR of 14 channels,EI+  
337.9207  
7.029e+006

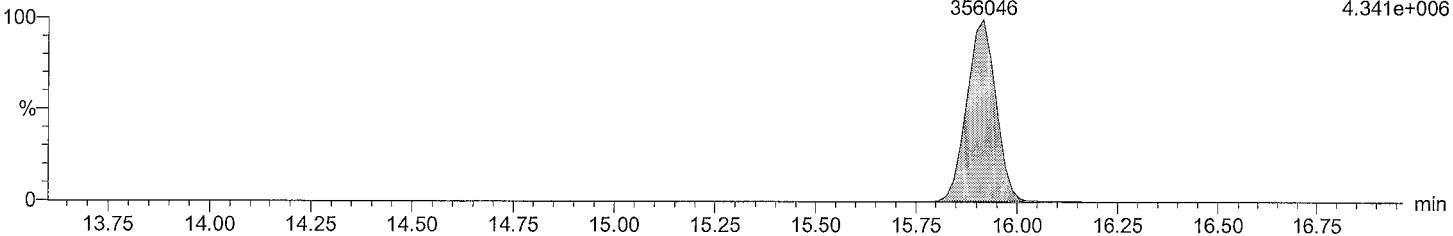


Total PeCB labeled F3

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

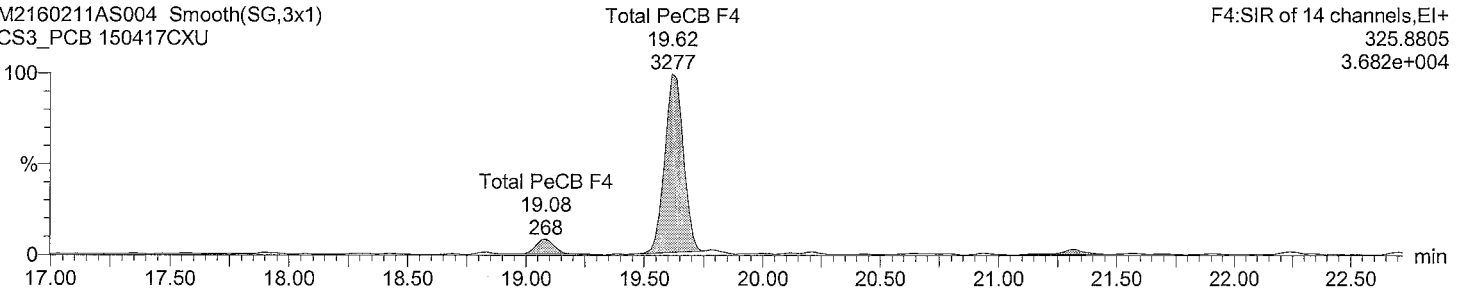
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

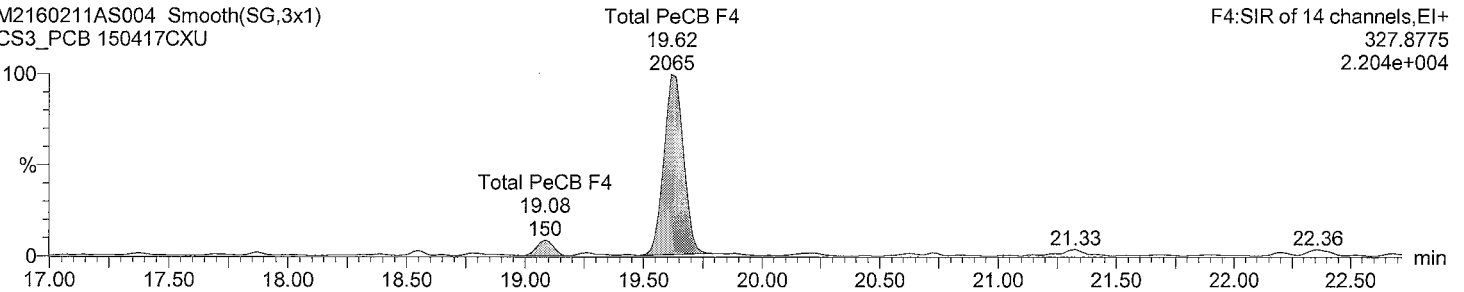
F4:SIR of 14 channels,EI+  
325.8805  
3.682e+004



Total PeCB F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

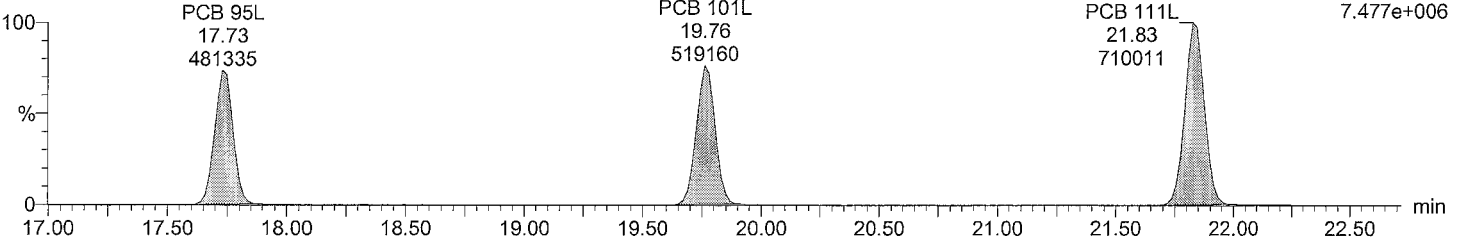
F4:SIR of 14 channels,EI+  
327.8775  
2.204e+004



Total PeCB labeled F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

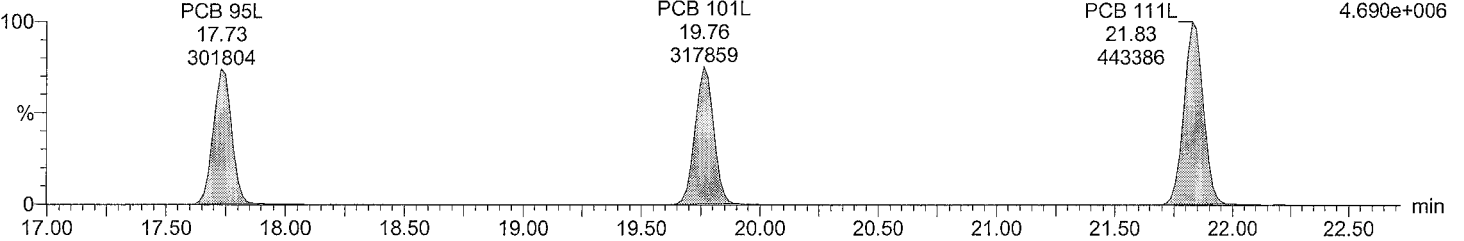
F4:SIR of 14 channels,EI+  
337.9207  
7.477e+006



Total PeCB labeled F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

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

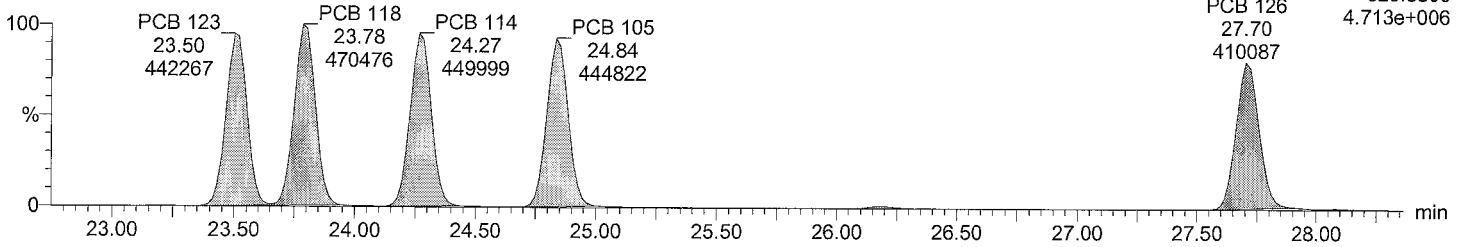
Time: 20:23:30

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS004 Smooth(SG,3x1)

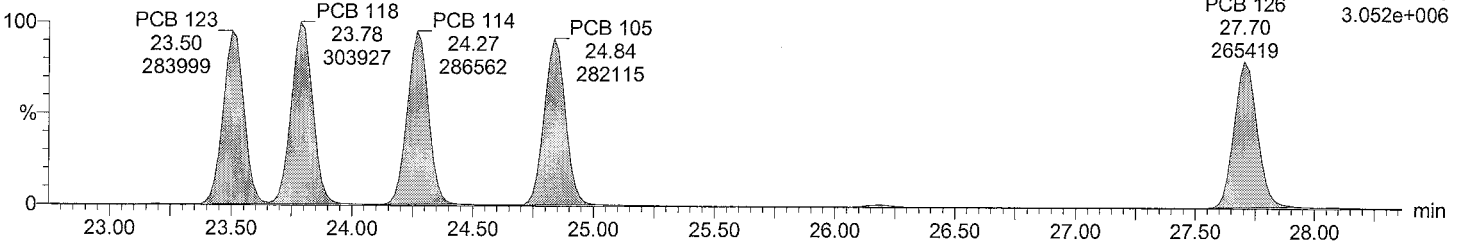
CS3\_PCB 150417CXU



Total PeCB F5

M2160211AS004 Smooth(SG,3x1)

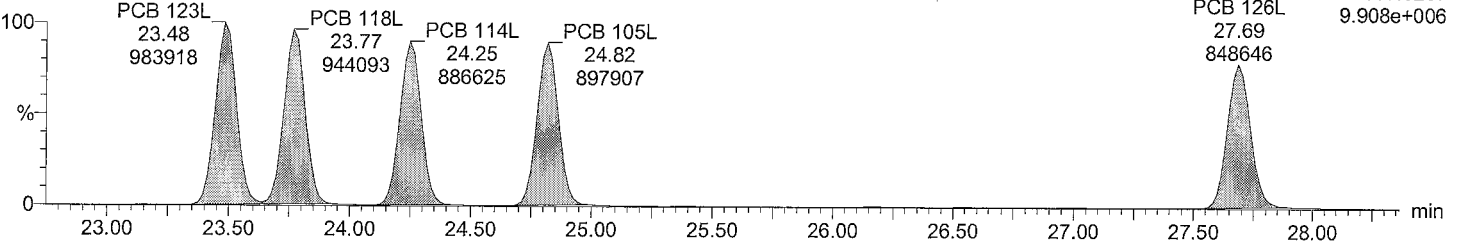
CS3\_PCB 150417CXU



Total PeCB labeled F5

M2160211AS004 Smooth(SG,3x1)

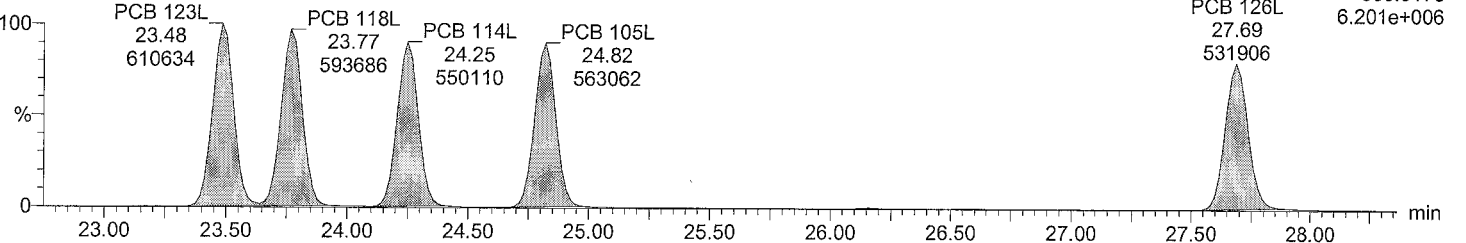
CS3\_PCB 150417CXU



Total PeCB labeled F5

M2160211AS004 Smooth(SG,3x1)

CS3\_PCB 150417CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\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: CS3\_PCB 150417CXU

Vial: 4

Date: 11-FEB-2016

Time: 20:23:30

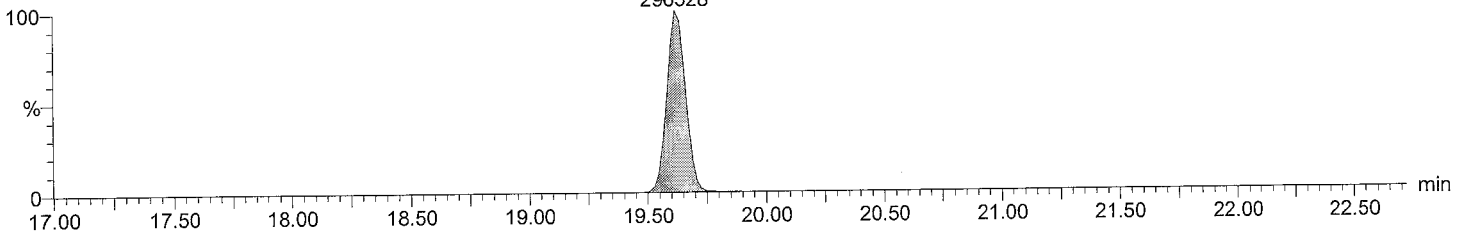
Instrument: Autospec-UltimaE

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

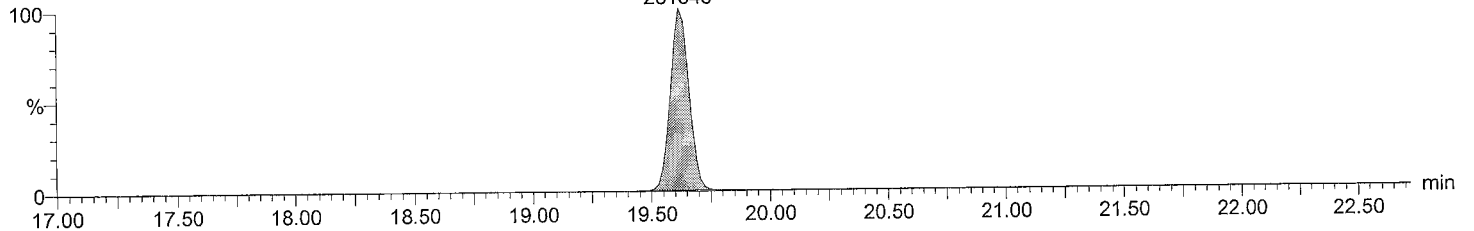


Total HxCB F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 155  
19.62  
231546

F4:SIR of 14 channels,EI+  
361.8385  
2.589e+006

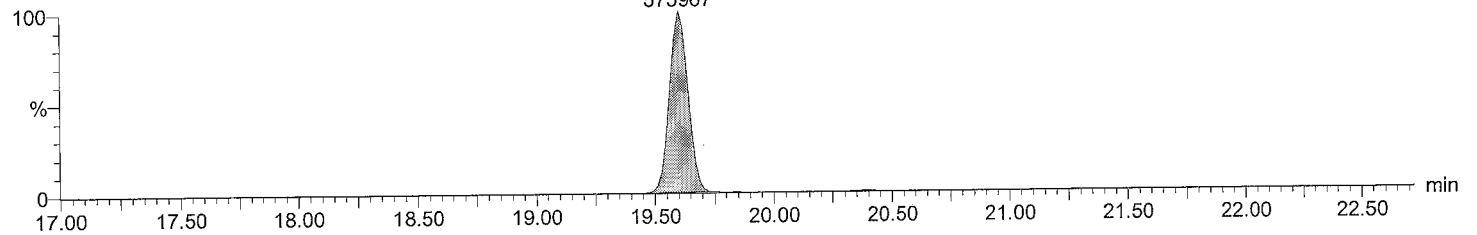


Total HxCB labeled F4

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

PCB 155L  
19.60  
575967

F4:SIR of 14 channels,EI+  
371.8817  
6.451e+006

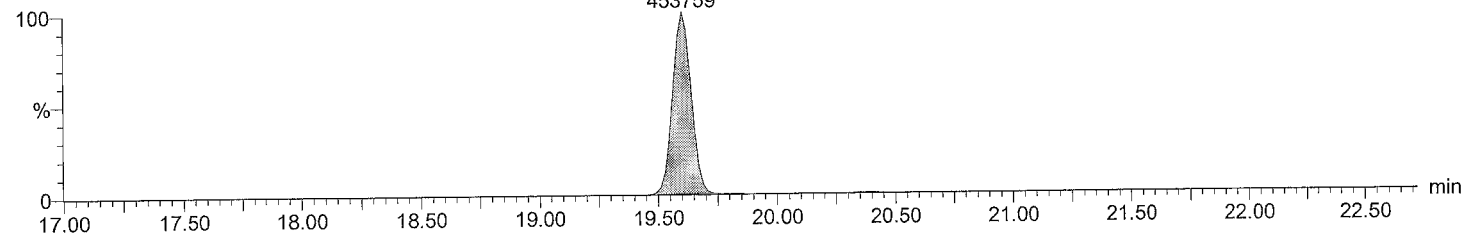


Total HxCB labeled F4

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

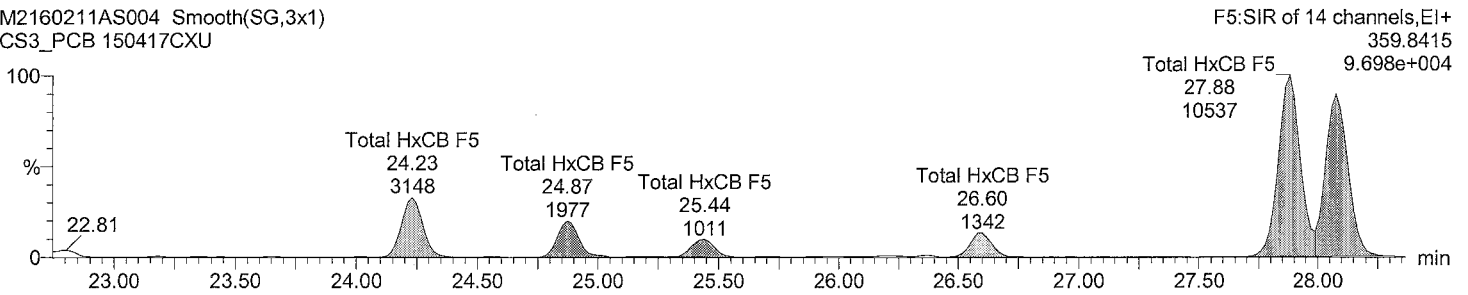
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

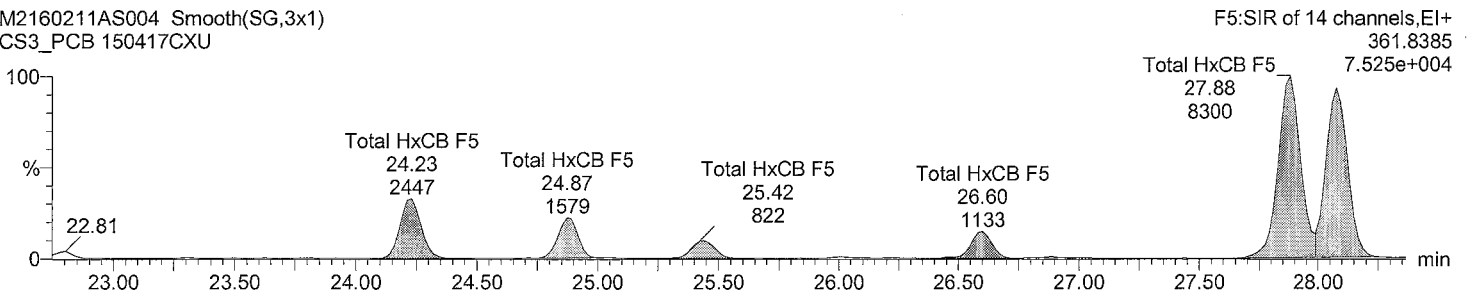
Total HxCB F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



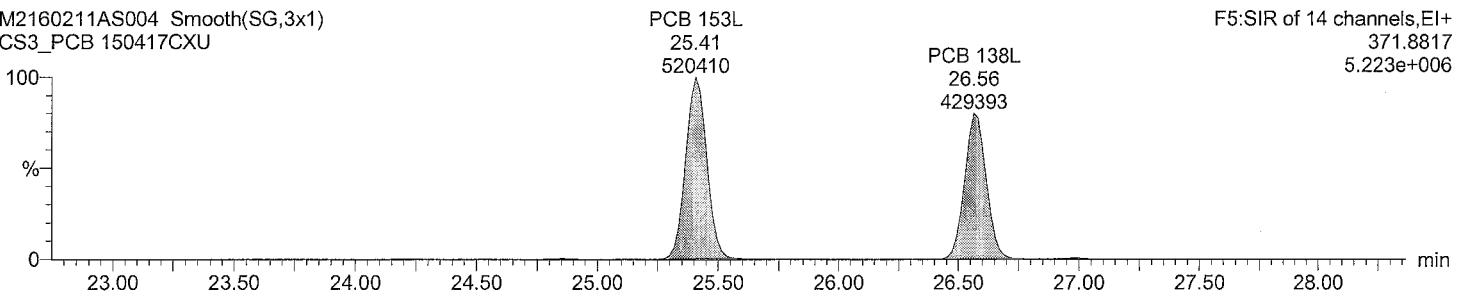
Total HxCB F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



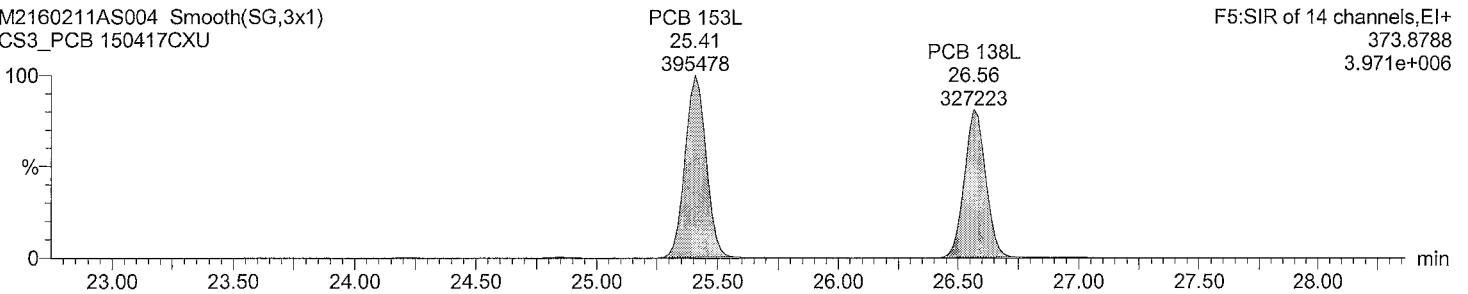
Total HxCB labeled F5

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

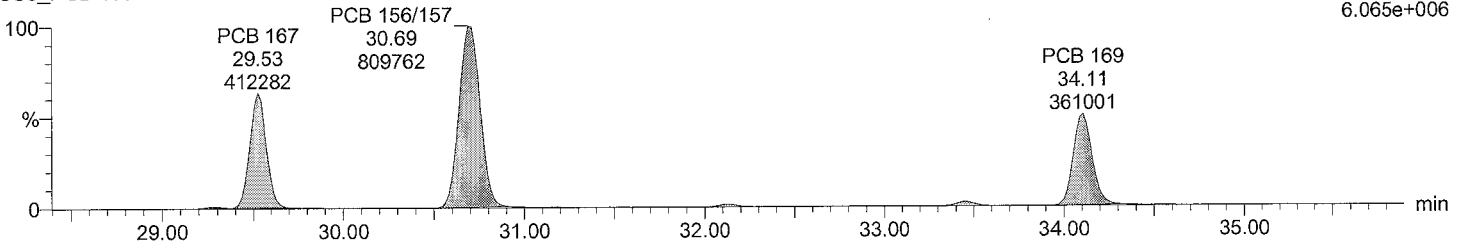
Time: 20:23:30

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

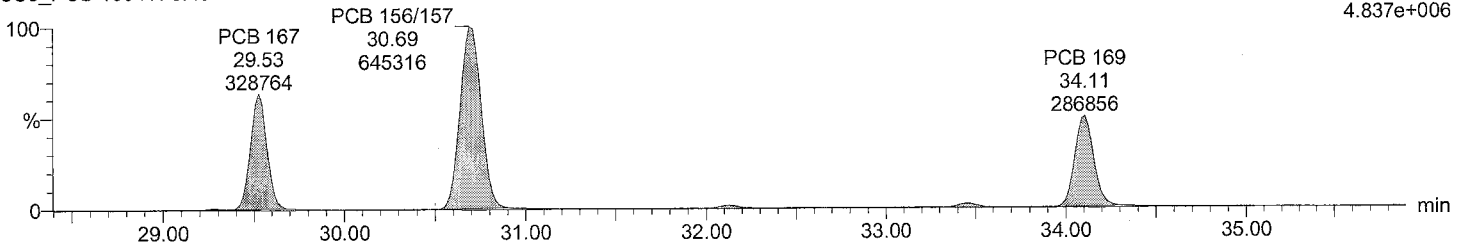
F6:SIR of 14 channels,EI+  
359.8415  
6.065e+006



Total HxCB F6

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

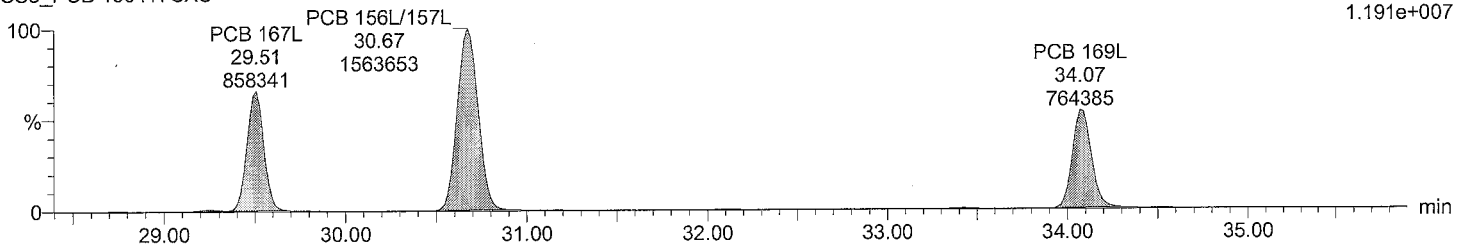
F6:SIR of 14 channels,EI+  
361.8385  
4.837e+006



Total HxCB labeled F6

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

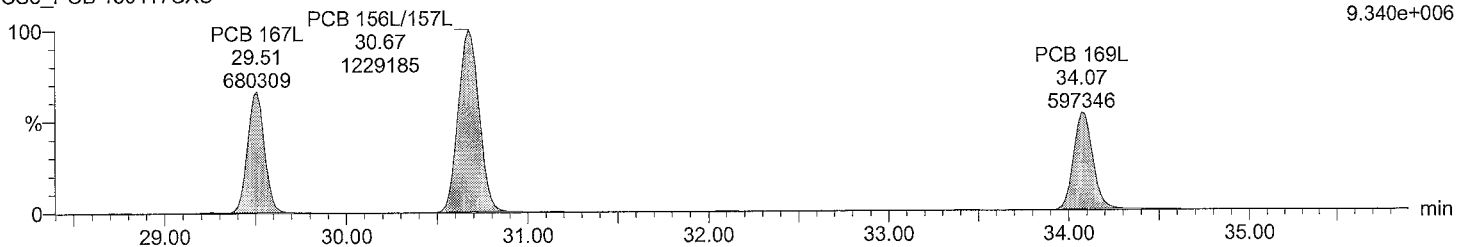
F6:SIR of 14 channels,EI+  
371.8817  
1.191e+007



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

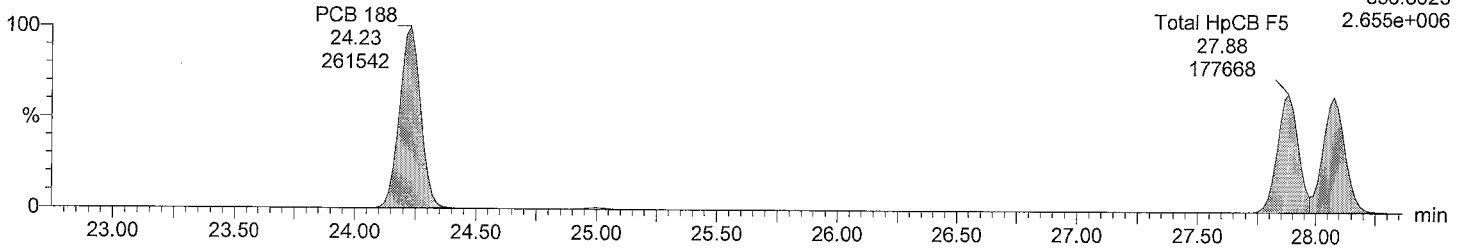
Time: 20:23:30

Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

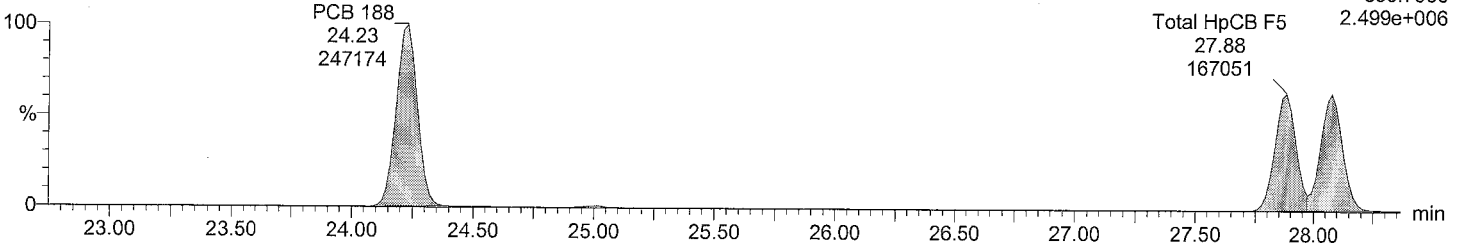
F5:SIR of 14 channels,EI+  
393.8025  
Total HpCB F5 2.655e+006  
27.88  
177668



Total HpCB F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

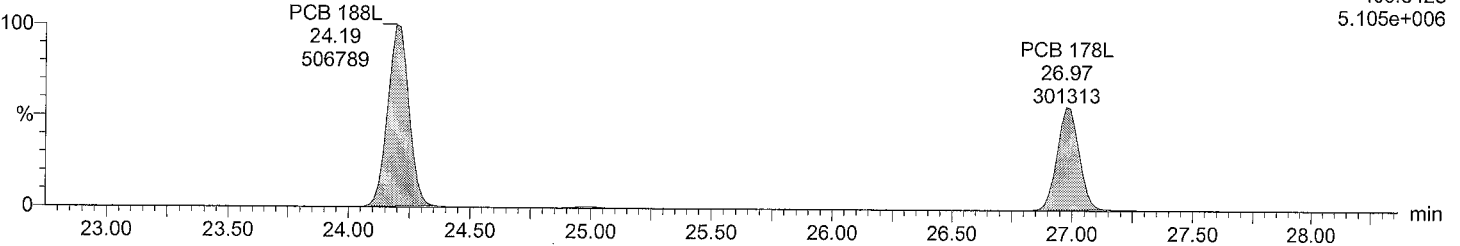
F5:SIR of 14 channels,EI+  
395.7995  
Total HpCB F5 2.499e+006  
27.88  
167051



Total HpCB labeled F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

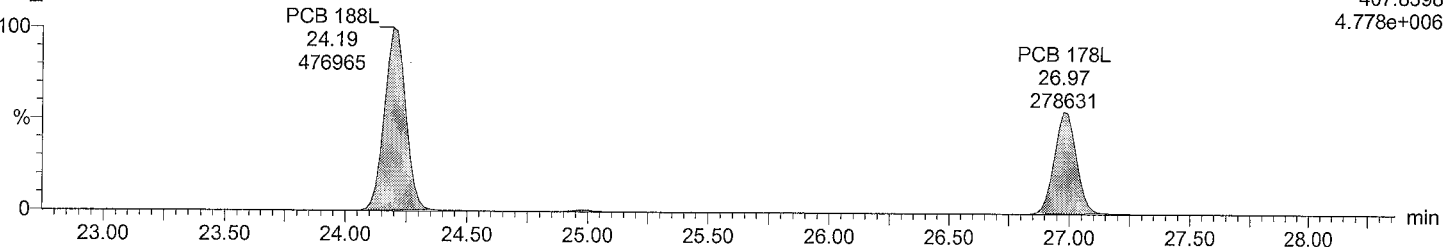
F5:SIR of 14 channels,EI+  
405.8428  
5.105e+006



Total HpCB labeled F5

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
407.8398  
4.778e+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

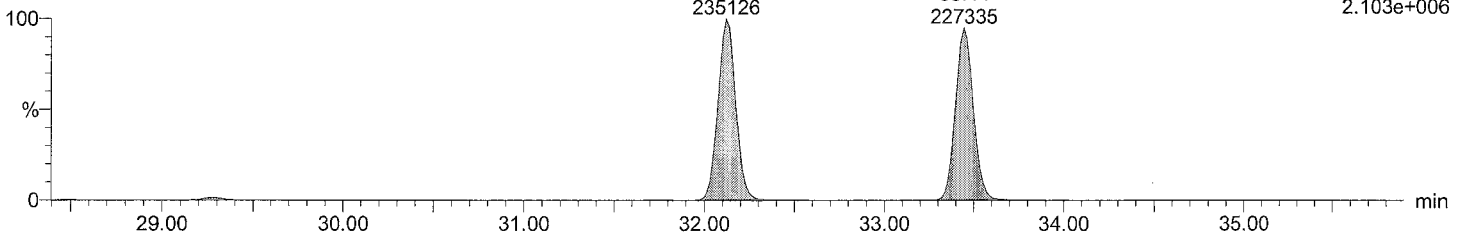
Total HpCB F6

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



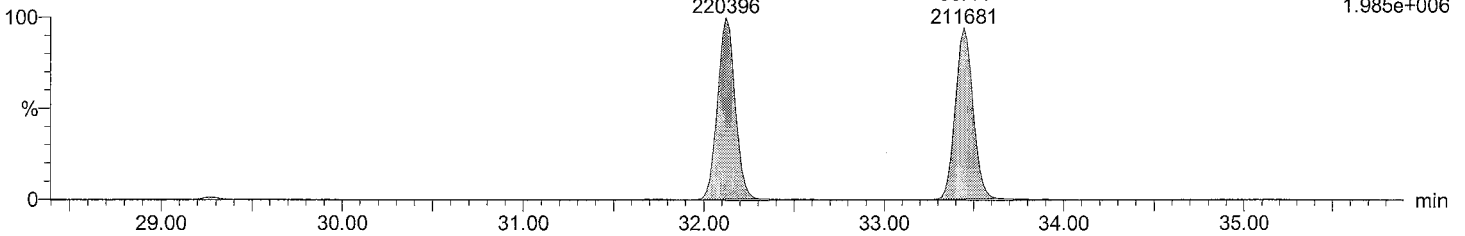
Total HpCB F6

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



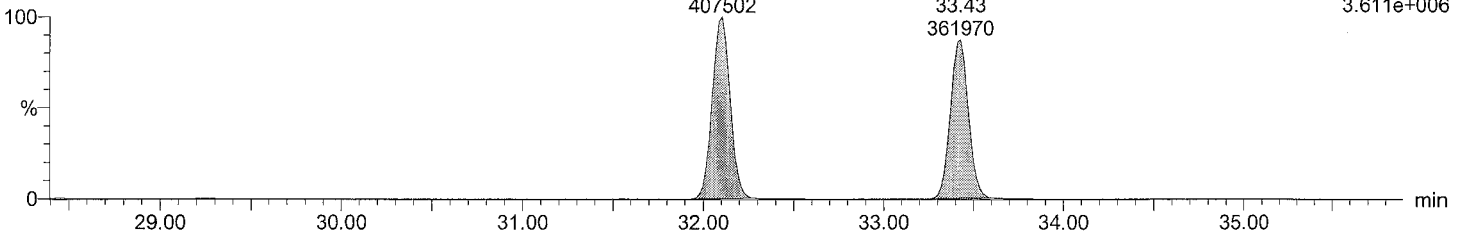
Total HpCB labeled F6

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



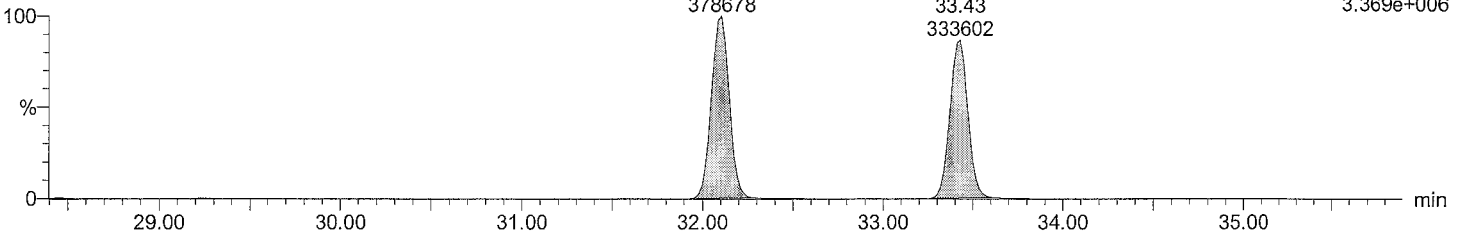
Total HpCB labeled F6

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

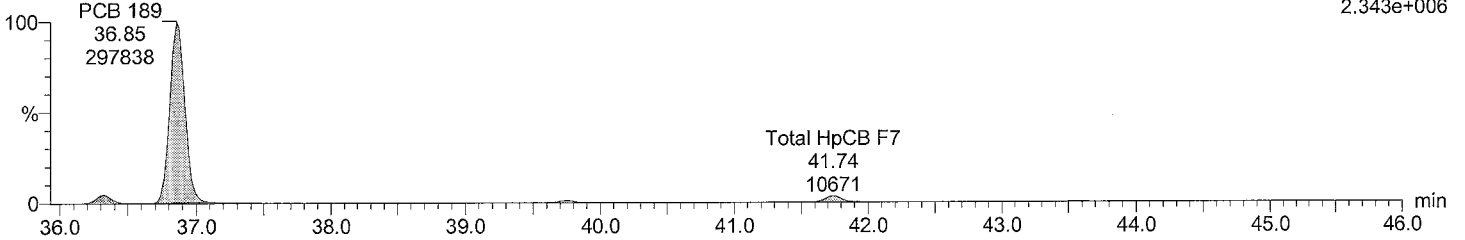
Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS004 Smooth(SG,3x1)

CS3\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
393.8025  
2.343e+006

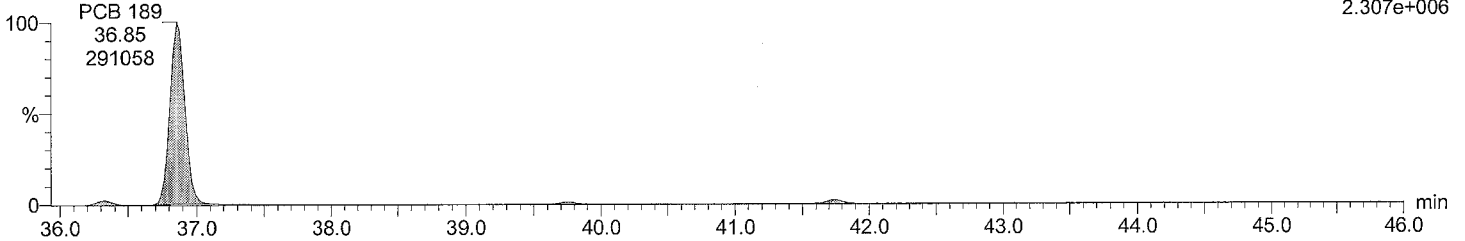


Total HpCB F7

M2160211AS004 Smooth(SG,3x1)

CS3\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
395.7995  
2.307e+006

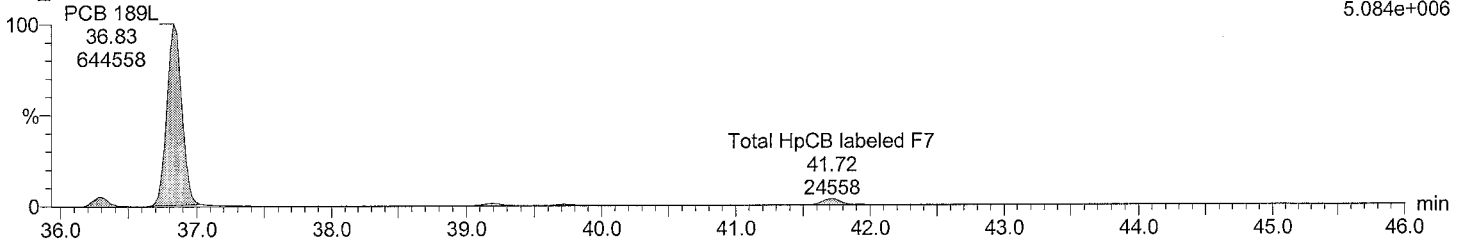


Total HpCB labeled F7

M2160211AS004 Smooth(SG,3x1)

CS3\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
405.8428  
5.084e+006

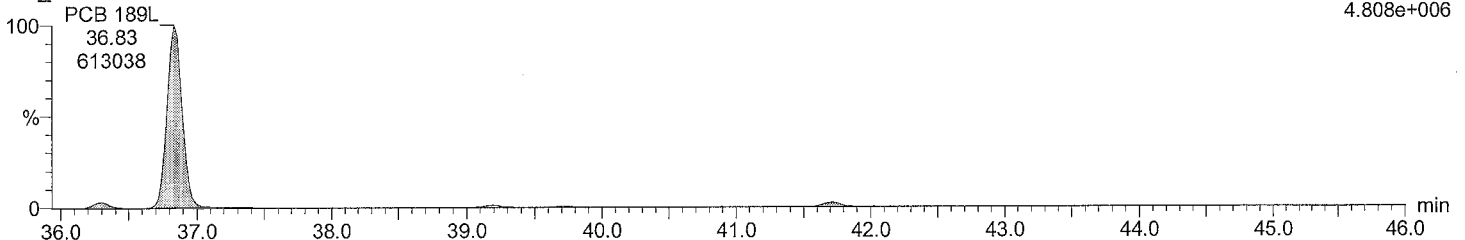


Total HpCB labeled F7

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

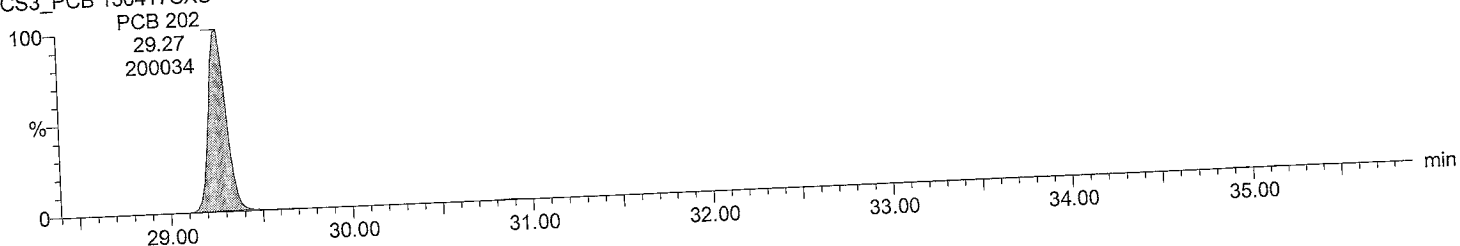
Time: 20:23:30

Instrument: Autospec-UltimaE

**Total OcCB F6**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

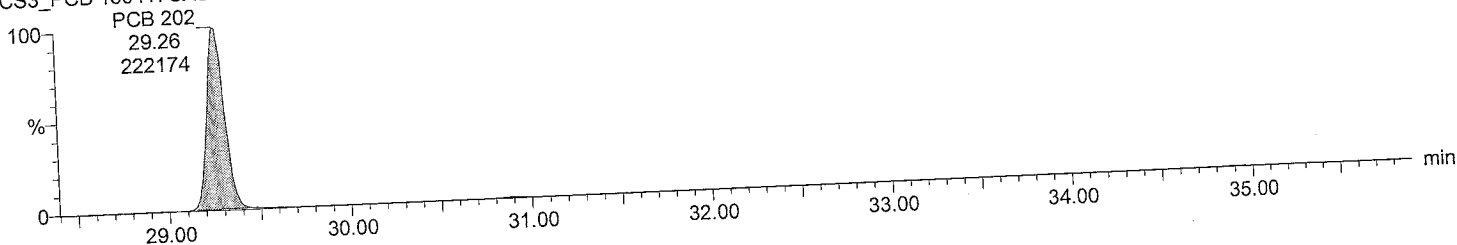
F6:SIR of 14 channels,EI+  
427.7635  
1.846e+006



**Total OcCB F6**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

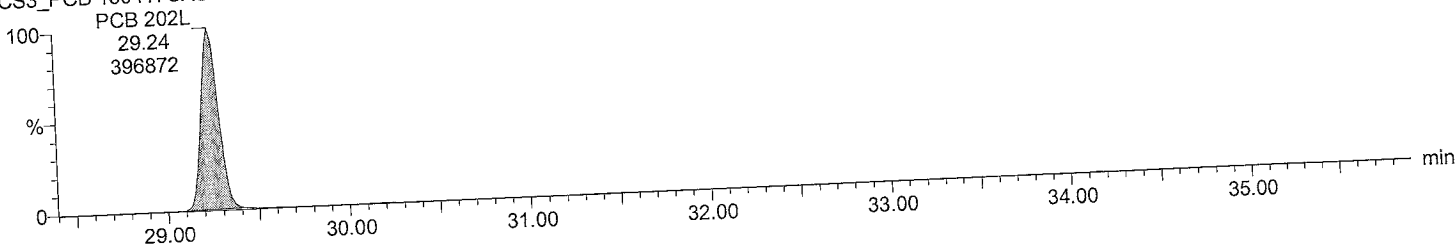
F6:SIR of 14 channels,EI+  
429.7606  
2.043e+006



**Total OcCB labeled F6**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

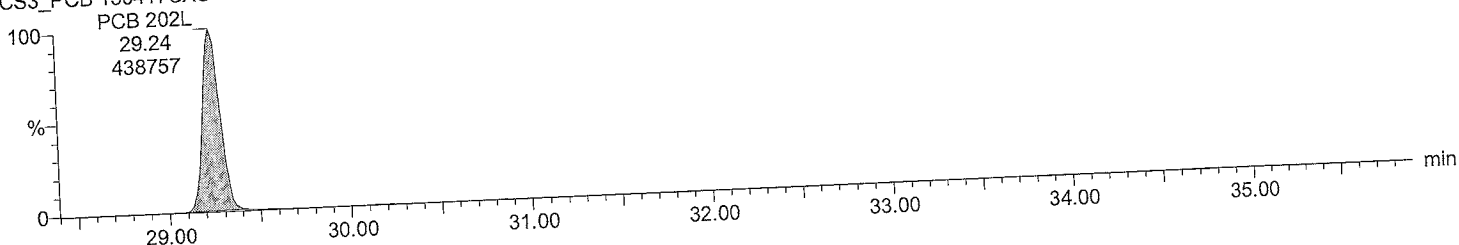
F6:SIR of 14 channels,EI+  
439.8038  
3.733e+006



**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

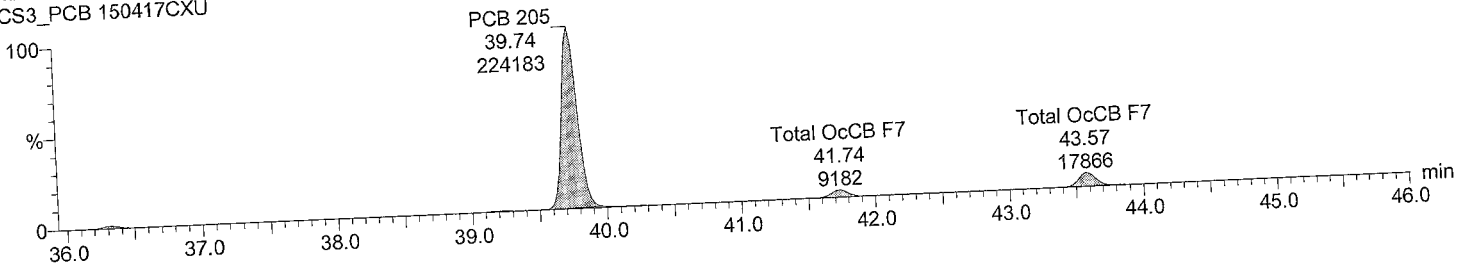
Time: 20:23:30

Instrument: Autospec-UltimaE

**Total OcCB F7**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

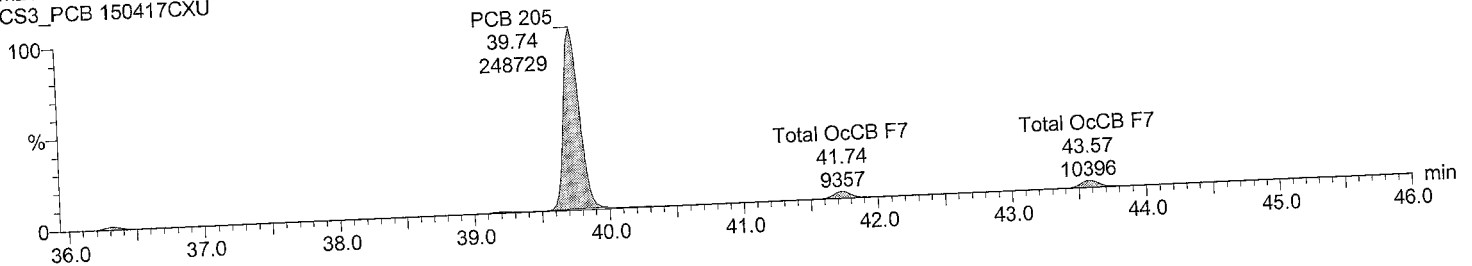
F7:SIR of 18 channels, EI+  
427.7635  
1.719e+006



**Total OcCB F7**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

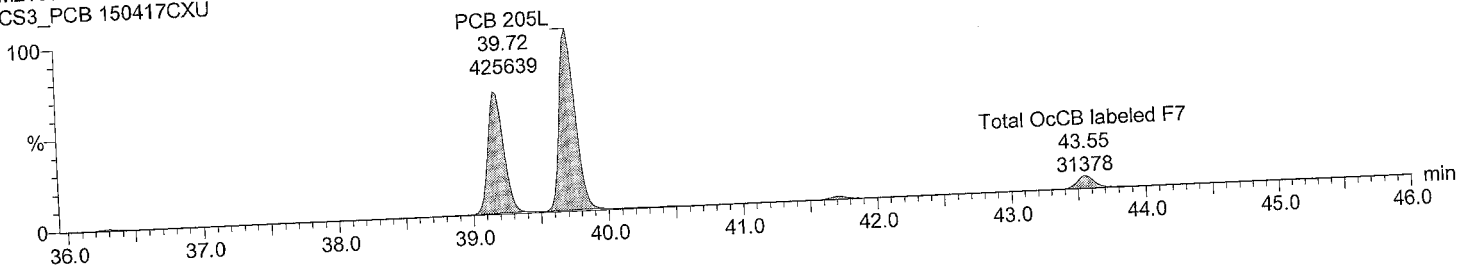
F7:SIR of 18 channels, EI+  
429.7606  
1.904e+006



**Total OcCB labeled F7**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

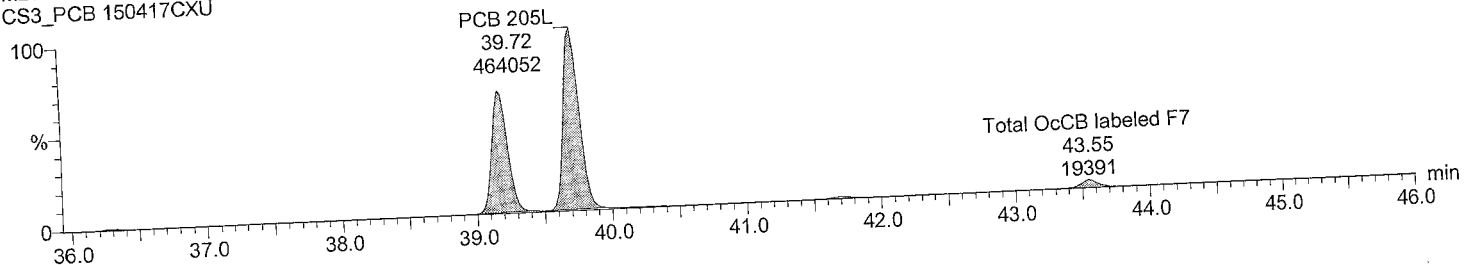
F7:SIR of 18 channels, EI+  
439.8038  
3.259e+006



**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

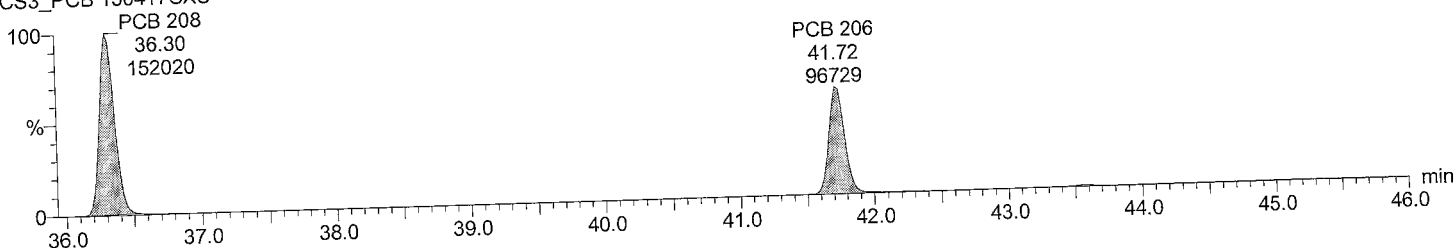
Dataset:            C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld  
 Last Altered:      February 16, 2016 8:03:15 AM Eastern Standard Time  
 Printed:            February 16, 2016 8:06:51 AM Eastern Standard Time

**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

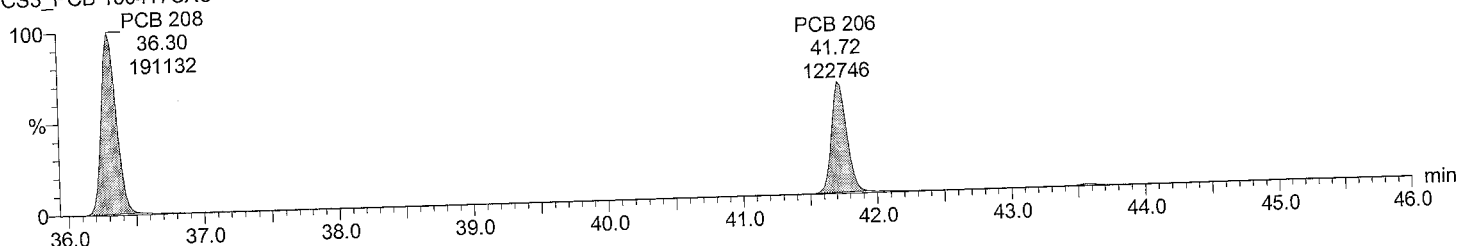
F7:SIR of 18 channels, EI+  
 461.7246  
 1.210e+006



**Total NoCB F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

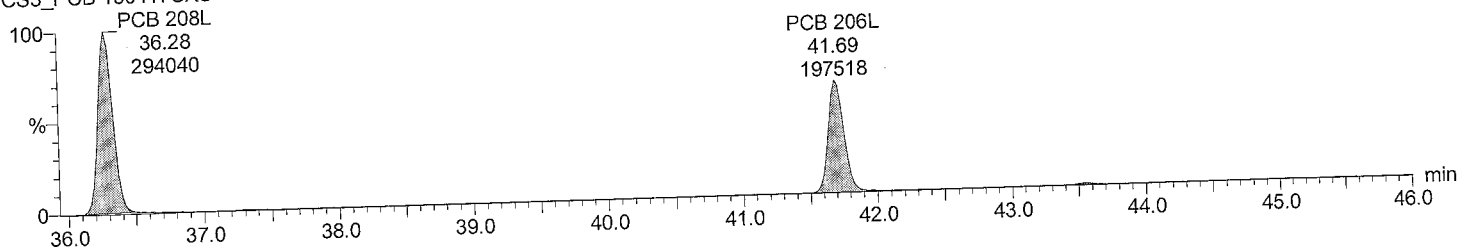
F7:SIR of 18 channels, EI+  
 463.7216  
 1.532e+006



**Total NoCB labeled F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

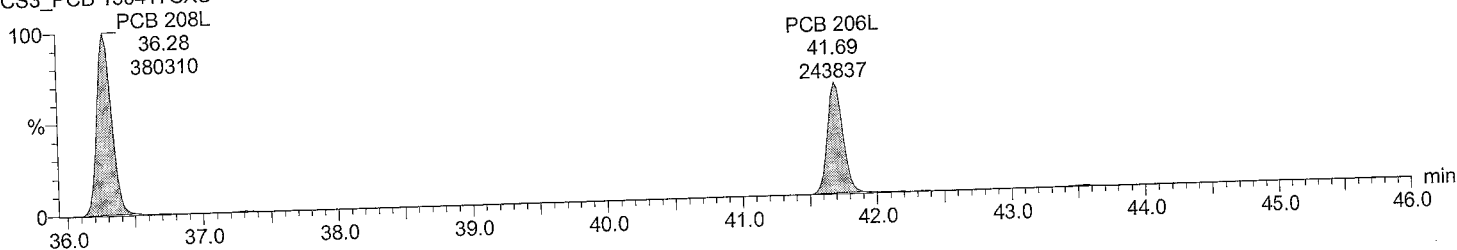
F7:SIR of 18 channels, EI+  
 473.7648  
 2.373e+006



**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**

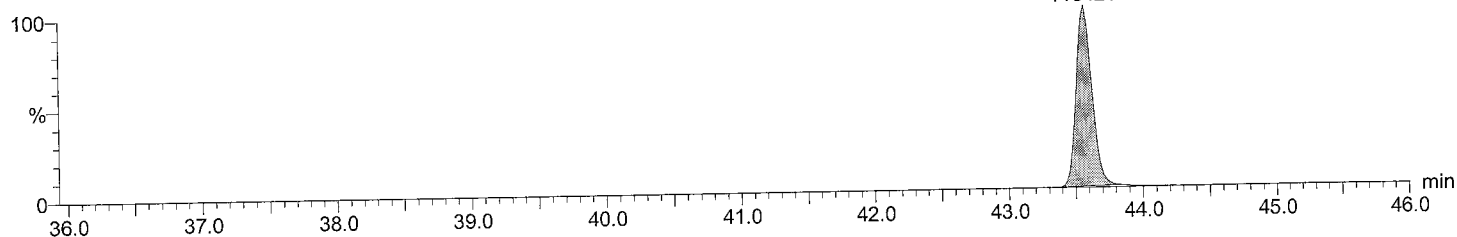
**Time: 20:23:30**

**Instrument: Autospec-UltimaE**

**Total DeCB F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

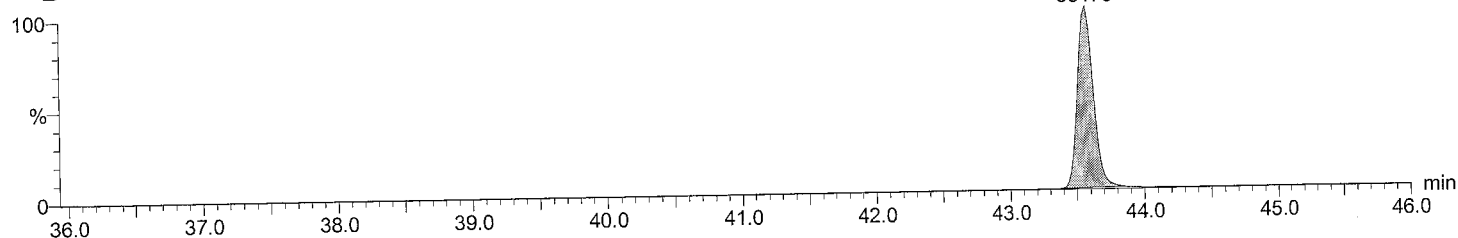
PCB 209            F7:SIR of 18 channels,EI+  
 43.57              497.6826  
 113421             8.456e+005



**Total DeCB F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

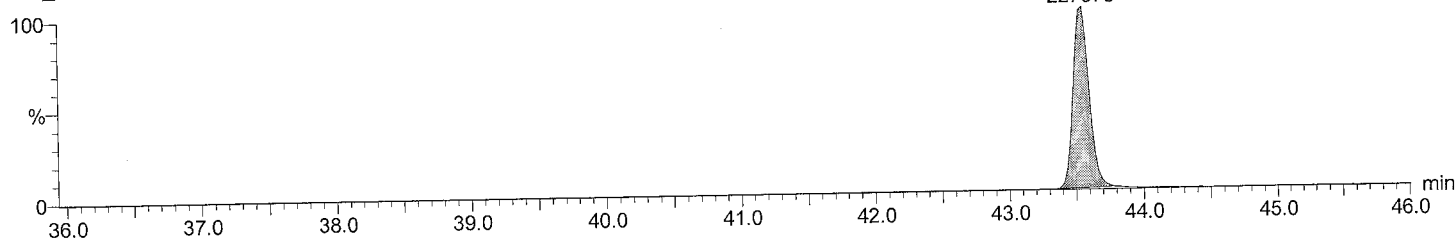
PCB 209            F7:SIR of 18 channels,EI+  
 43.57              499.6797  
 93173              6.948e+005



**Total DeCB labeled F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

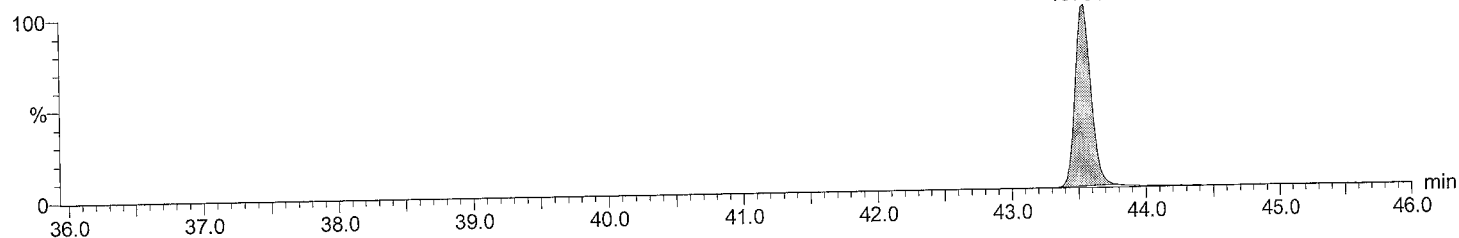
PCB 209L          F7:SIR of 18 channels,EI+  
 43.55              509.7229  
 227378             1.684e+006



**Total DeCB labeled F7**

M2160211AS004 Smooth(SG,3x1)  
 CS3\_PCB 150417CXU

PCB 209L          F7:SIR of 18 channels,EI+  
 43.55              511.7199  
 187368             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**

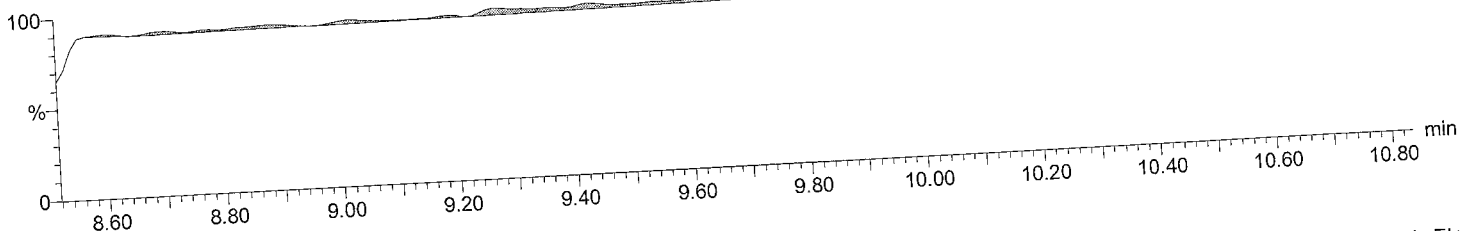
Time: **20:23:30**

Instrument: **Autospec-UltimaE**

**lockmass F1**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

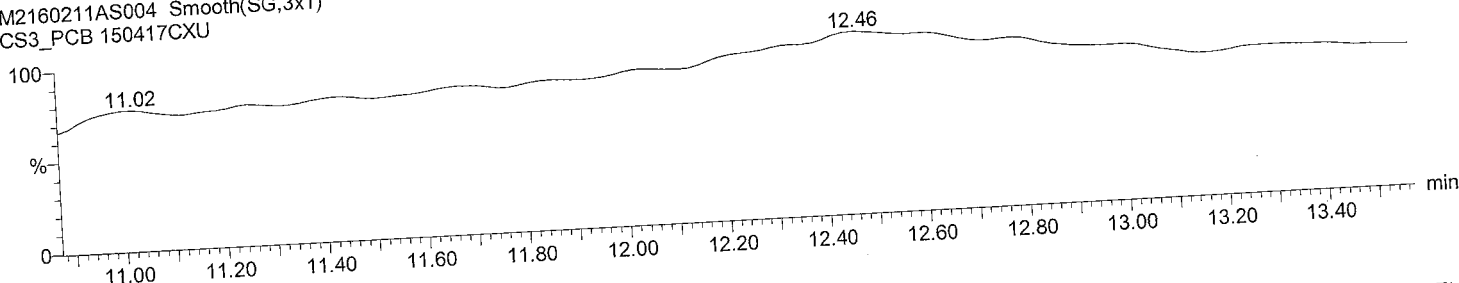
F1:SIR of 10 channels,EI+  
218.9856  
4.372e+006



**lockmass F2**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

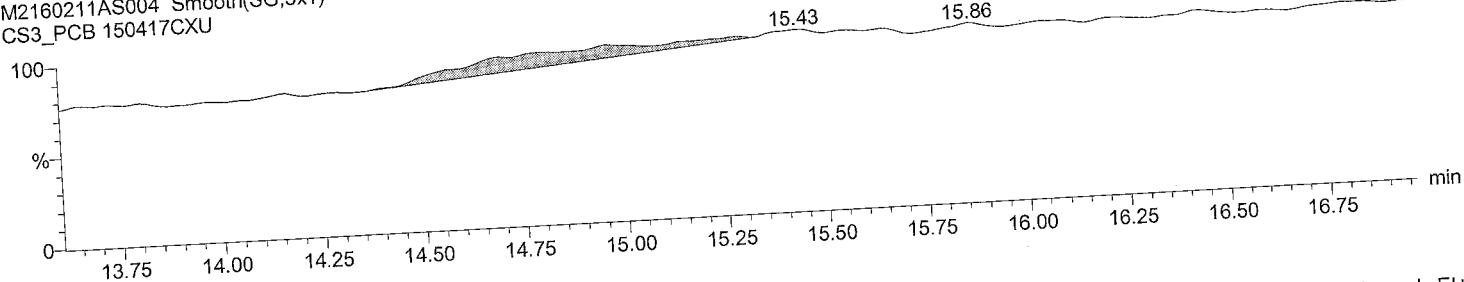
F2:SIR of 16 channels,EI+  
242.9856  
1.760e+006



**lockmass F3**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
292.9824  
1.368e+006

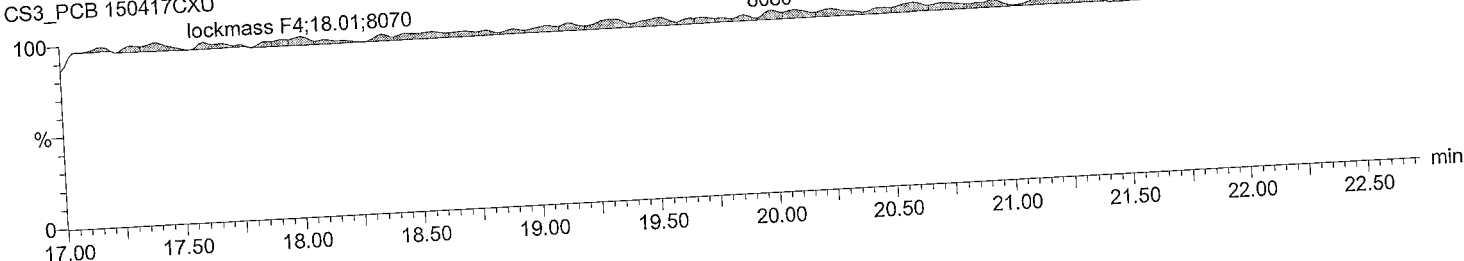


**lockmass F4**

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

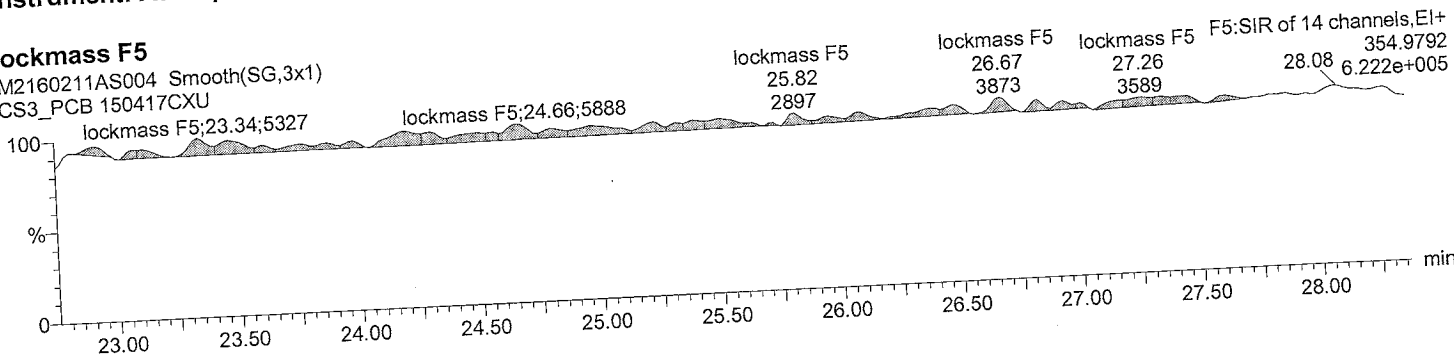
Date: 11-FEB-2016

Time: 20:23:30

Instrument: Autospec-UltimaE

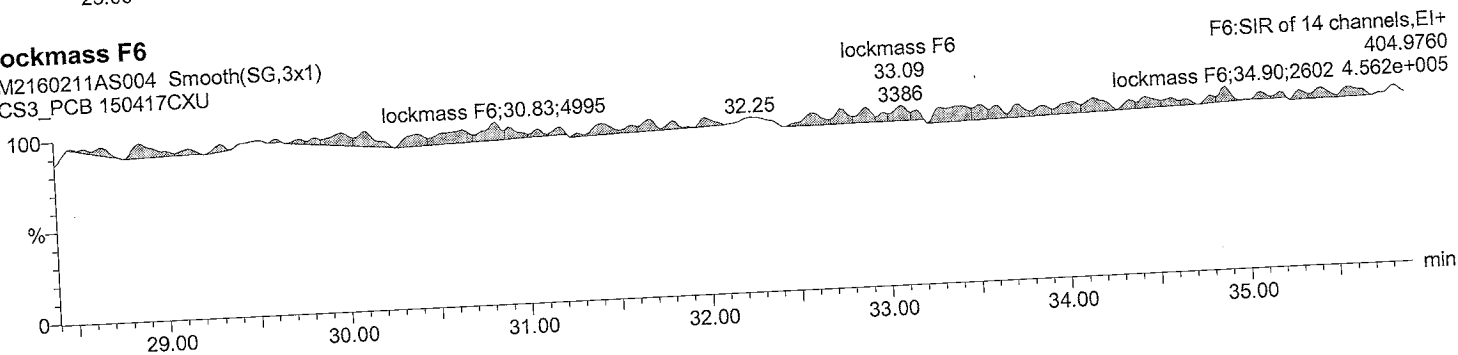
**lockmass F5**

M2160211AS004 Smooth(SG,3x1)  
CS3\_PCB 150417CXU



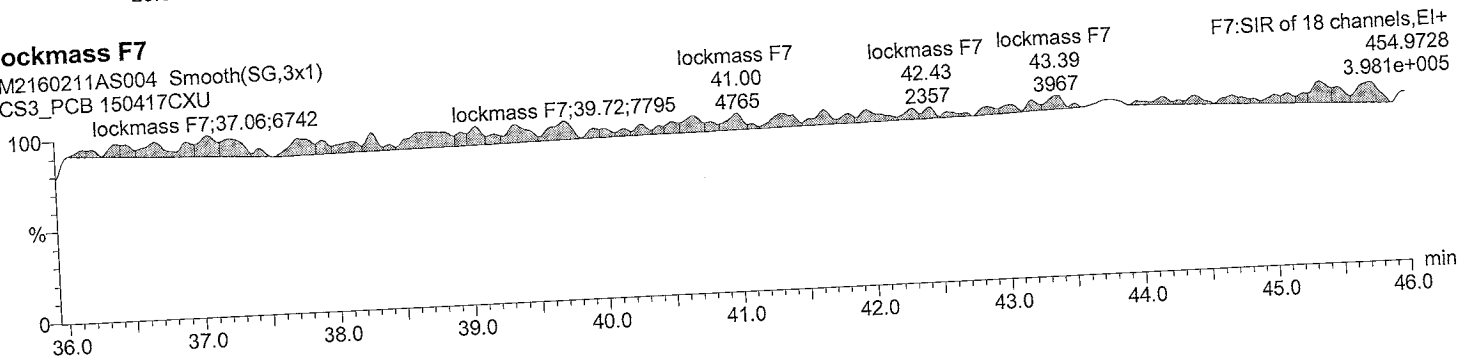
**lockmass F6**

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	-9.5	91	64	1.174
36 PCB 81L	21.41	1.395	991348	1248035	0.79	YES	bb	90.514	3.3	103	64	1.796
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

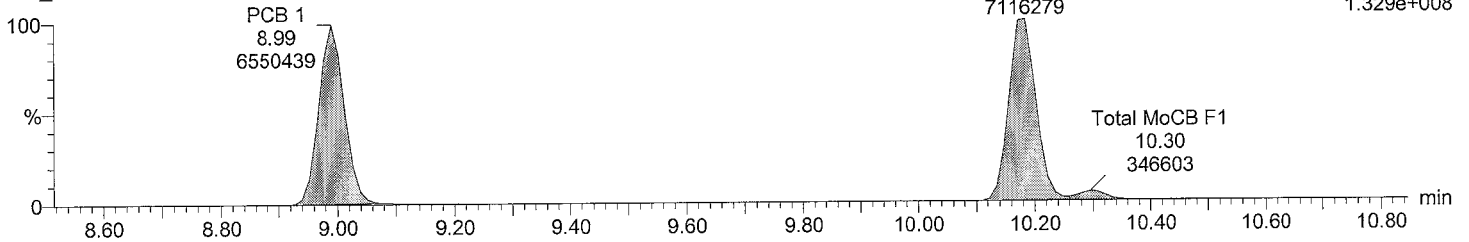
Time: 21:13:41

Instrument: Autospec-UltimaE

Total MoCB F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

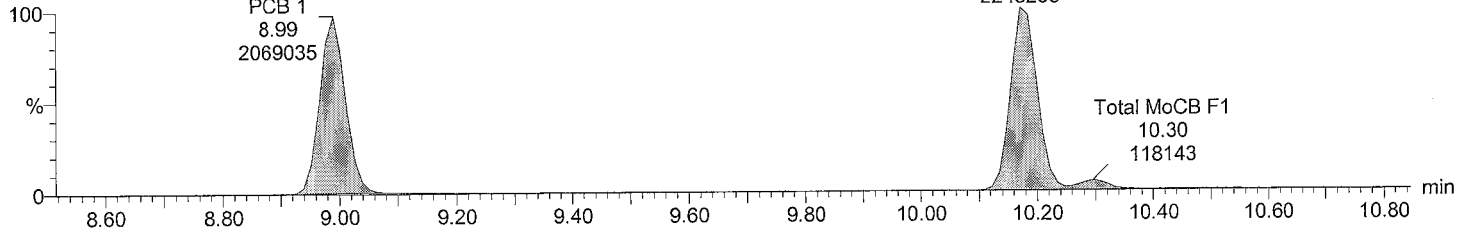
PCB 3 10.19 7116279  
F1:SIR of 10 channels,EI+  
188.0393  
1.329e+008



Total MoCB F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

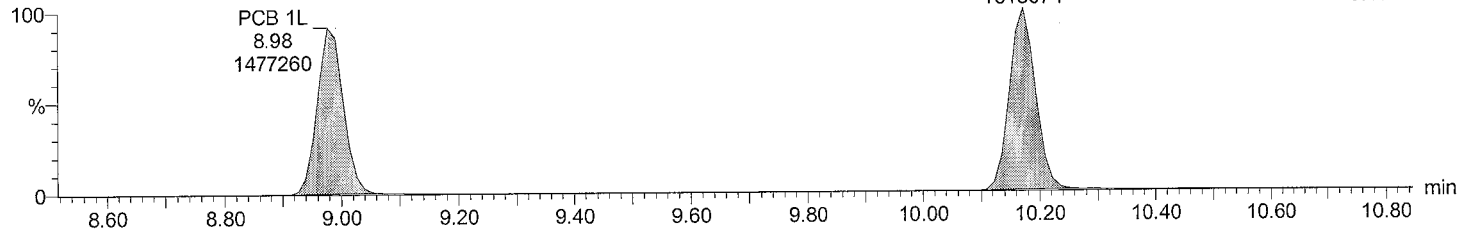
PCB 3 10.17 2243259  
F1:SIR of 10 channels,EI+  
190.0363  
4.262e+007



Total MoCB labeled F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

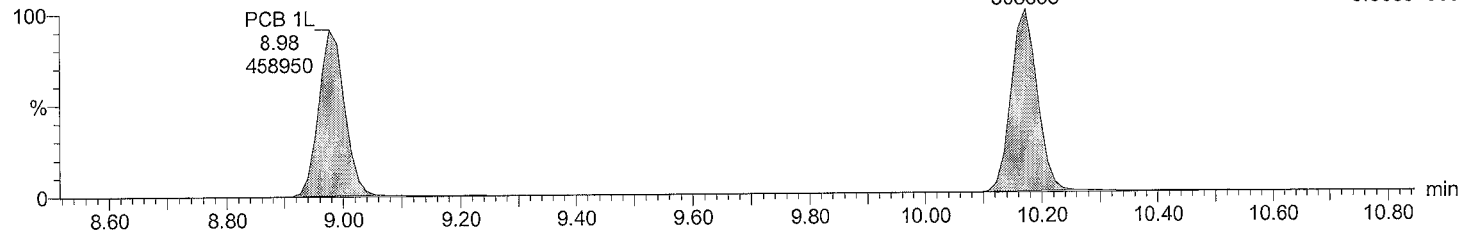
PCB 3L 10.17 1613074  
F1:SIR of 10 channels,EI+  
200.0795  
3.174e+007



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

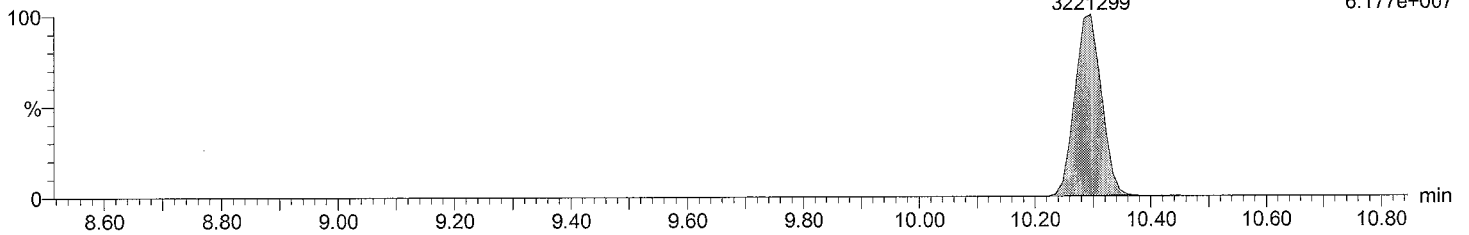
Time: 21:13:41

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

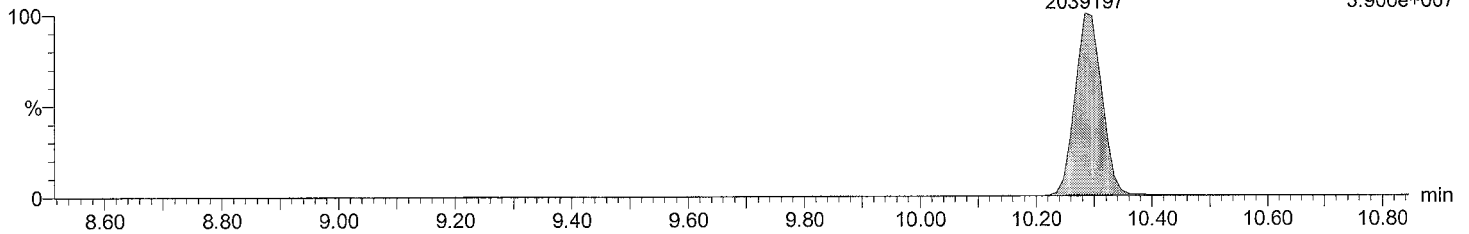
PCB 4  
10.30  
3221299  
F1:SIR of 10 channels, EI+  
222.0003  
6.177e+007



Total DiCB F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

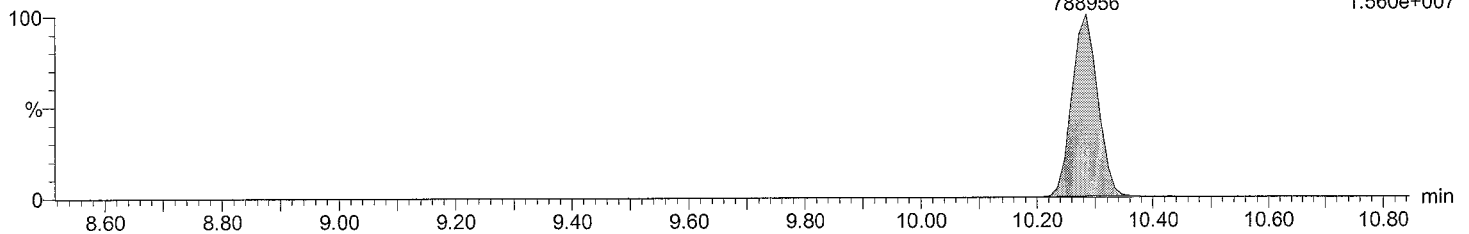
PCB 4  
10.28  
2039197  
F1:SIR of 10 channels, EI+  
223.9974  
3.900e+007



Total DiCB labeled F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

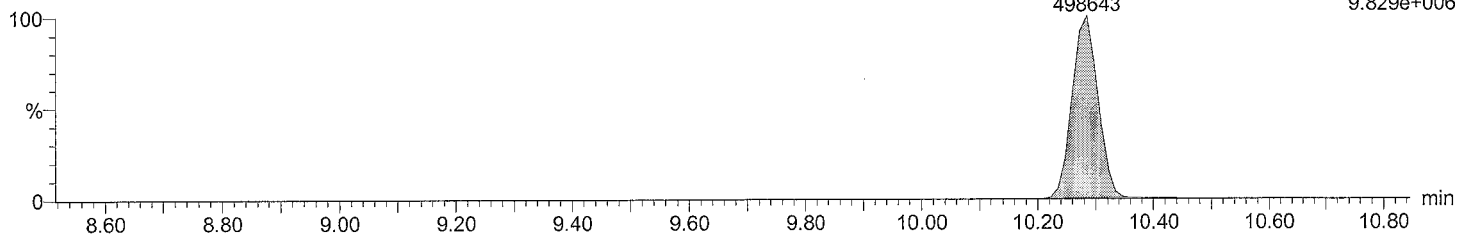
PCB 4L  
10.28  
788956  
F1:SIR of 10 channels, EI+  
234.0406  
1.560e+007



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

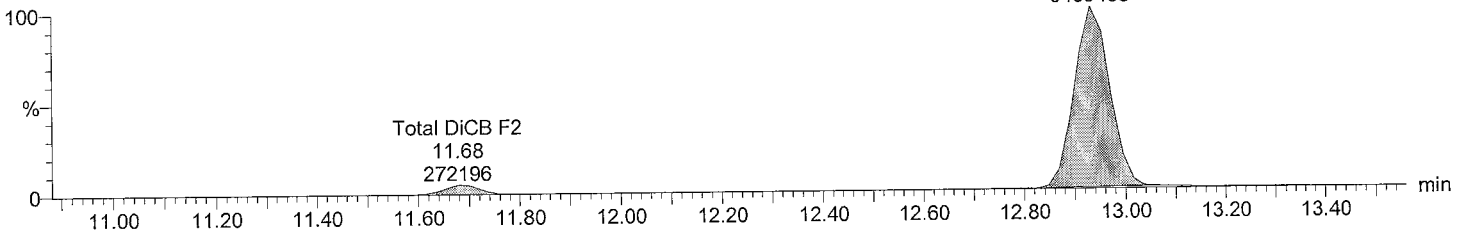
Instrument: Autospec-UltimaE

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

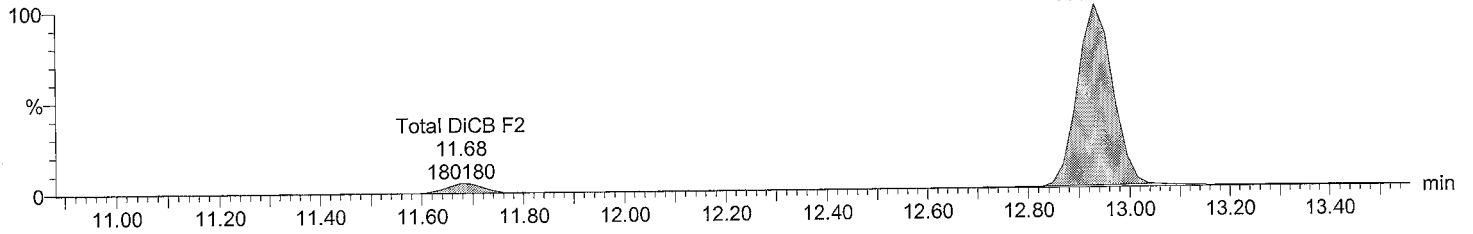


Total DiCB F2

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 15  
12.93  
3609118

F2:SIR of 16 channels,EI+  
223.9974  
4.550e+007



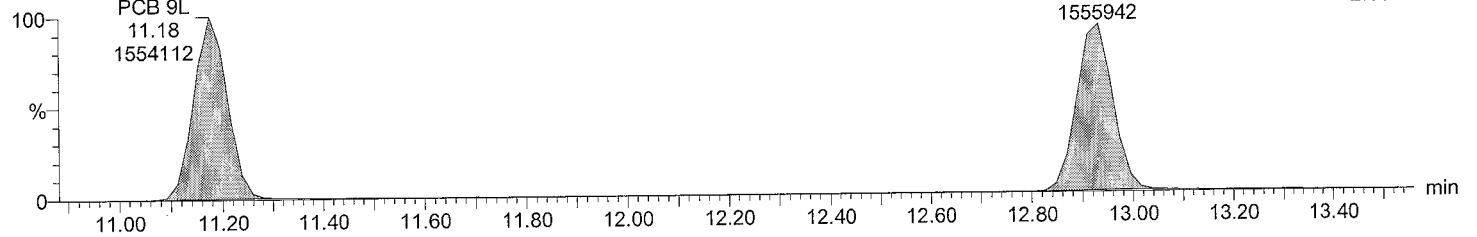
Total DiCB labeled F2

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



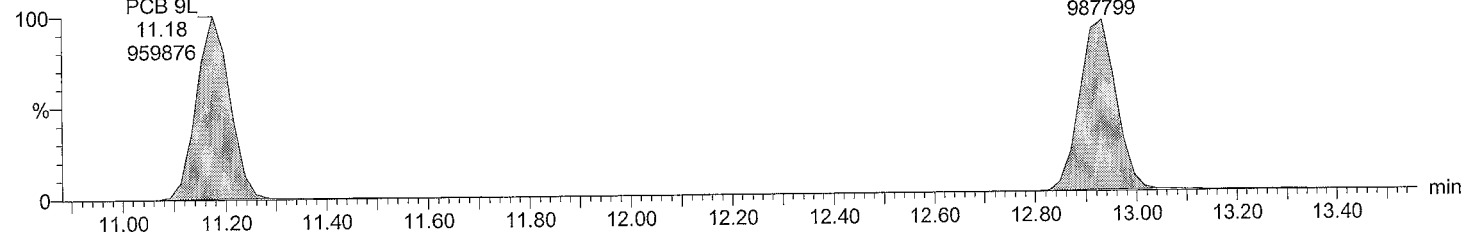
Total DiCB labeled F2

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

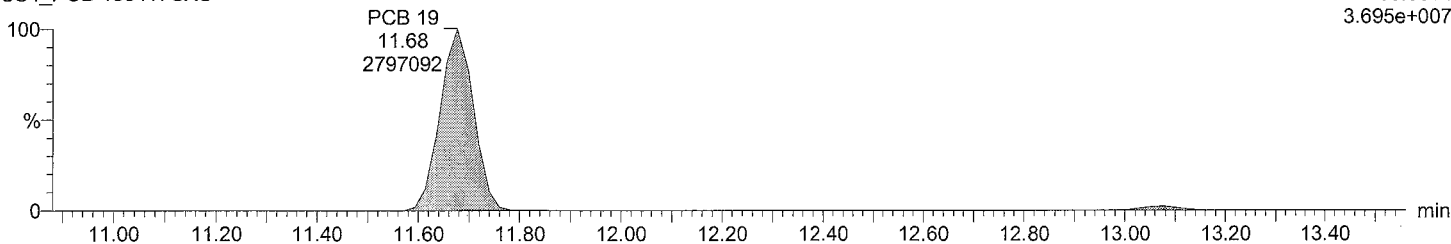
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F2:SIR of 16 channels,EI+

255.9614

3.695e+007



Total TriCB F2

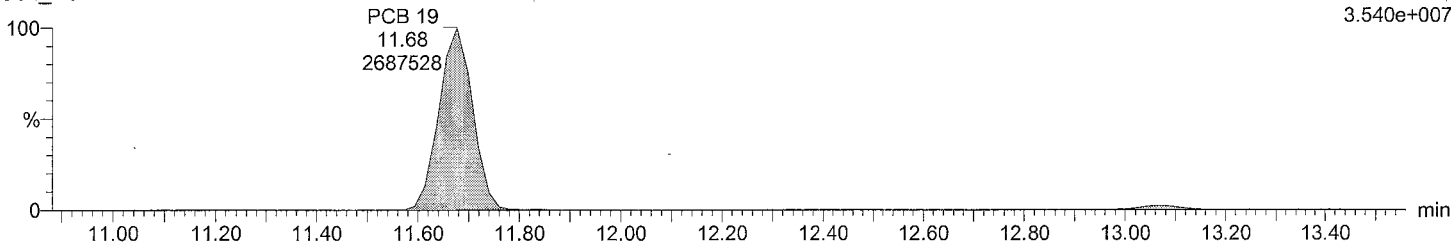
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F2:SIR of 16 channels,EI+

257.9584

3.540e+007



Total TriCB labeled F2

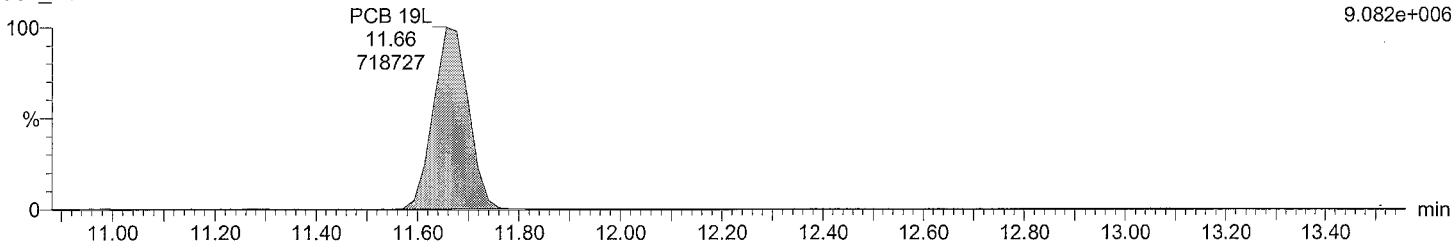
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F2:SIR of 16 channels,EI+

268.0016

9.082e+006



Total TriCB labeled F2

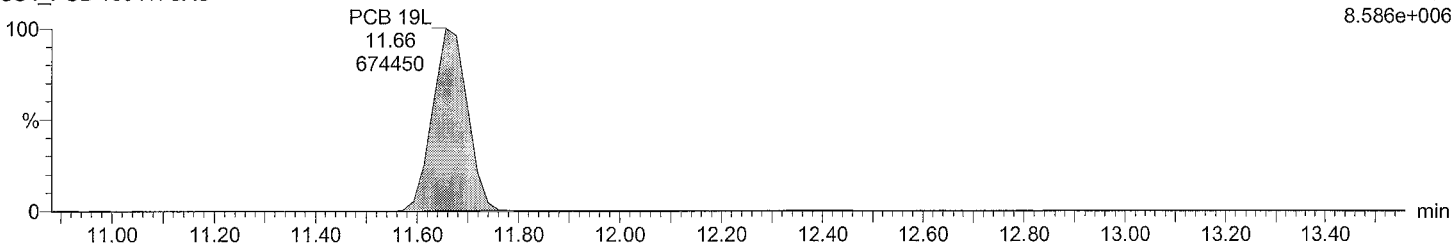
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F2:SIR of 16 channels,EI+

269.9986

8.586e+006



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

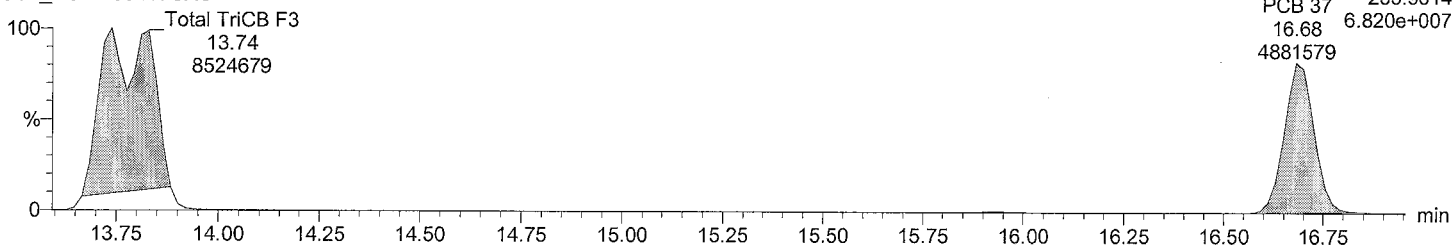
Time: 21:13:41

Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

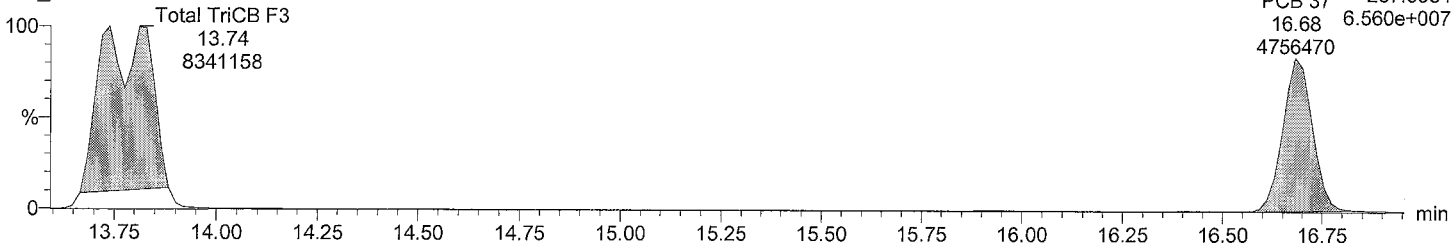
F3:SIR of 14 channels,EI+



Total TriCB F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

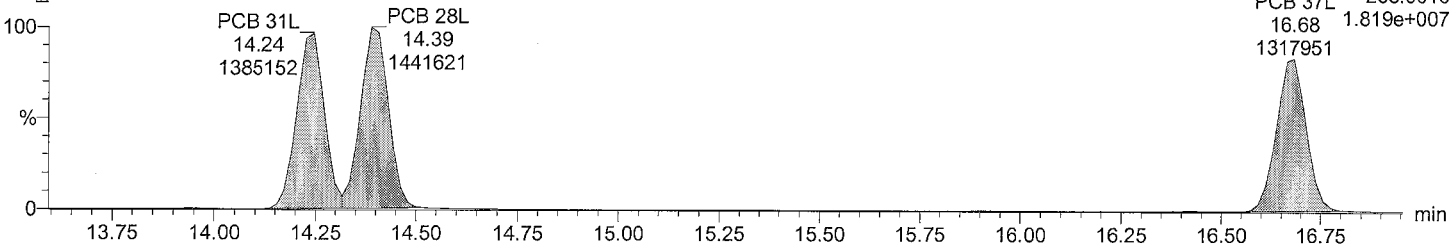
F3:SIR of 14 channels,EI+



Total TriCB labeled F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

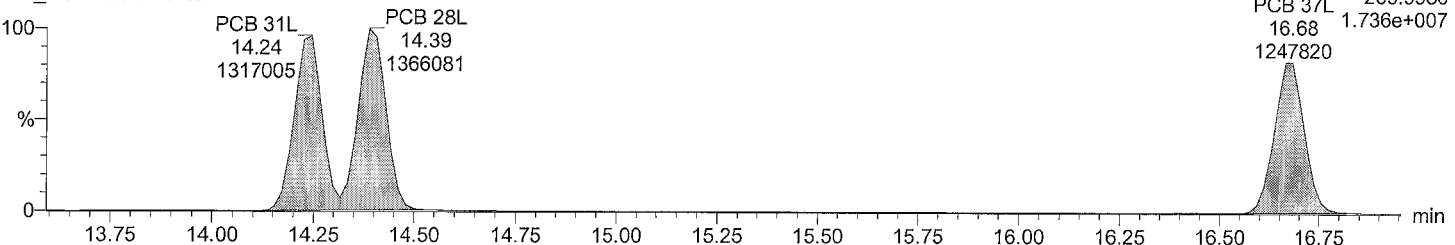
F3:SIR of 14 channels,EI+



Total TriCB labeled F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

F3: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**

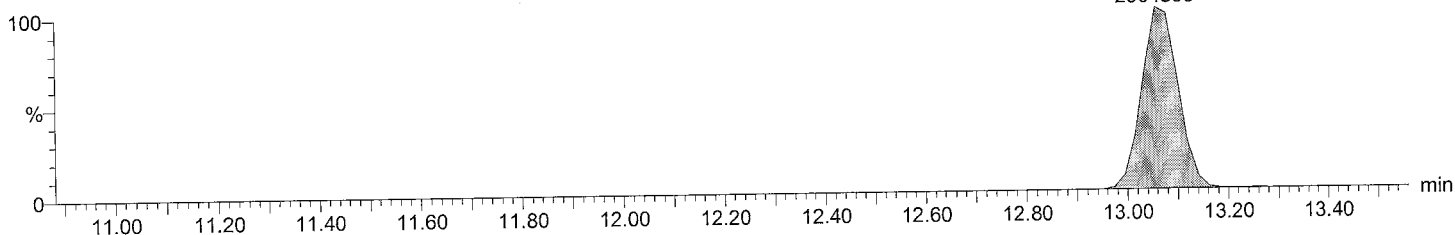
**Time: 21:13:41**

**Instrument: Autospec-UltimaE**

**Total TeCB F2**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

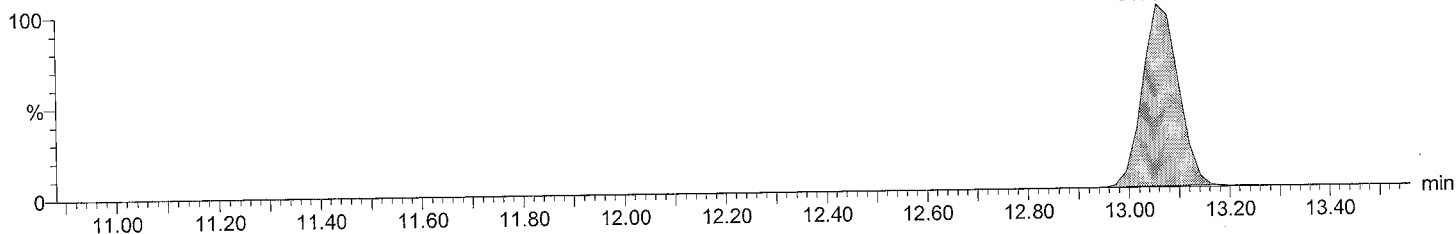
PCB 54    F2:SIR of 16 channels,EI+  
13.06            289.9224  
2504893            3.020e+007



**Total TeCB F2**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

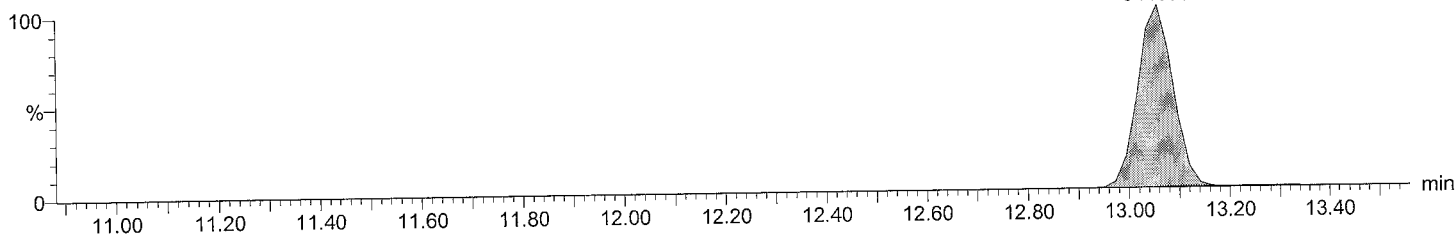
PCB 54    F2:SIR of 16 channels,EI+  
13.06            291.9194  
3178847            3.874e+007



**Total TeCB labeled F2**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

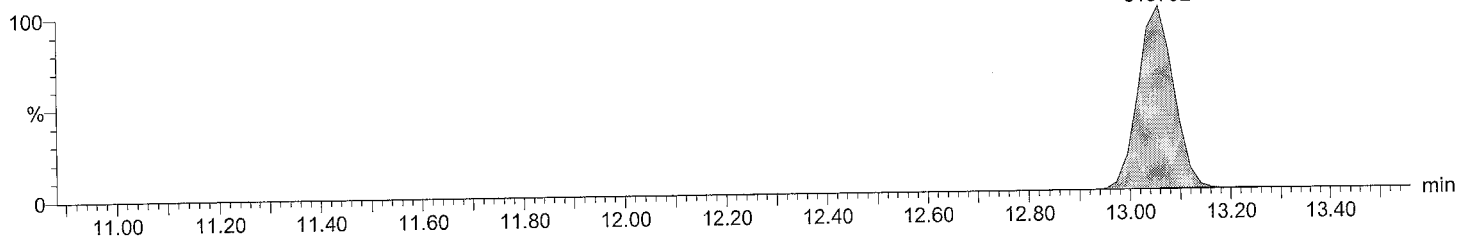
PCB 54L    F2:SIR of 16 channels,EI+  
13.06            301.9626  
644699            8.045e+006



**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

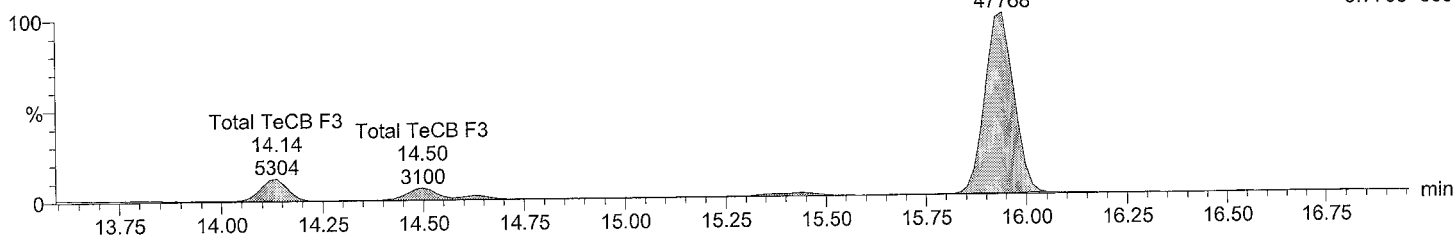
**Description: CS4\_PCB 150417CXU**  
**Vial: 5**  
**Date: 11-FEB-2016**  
**Time: 21:13:41**  
**Instrument: Autospec-UltimaE**

**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

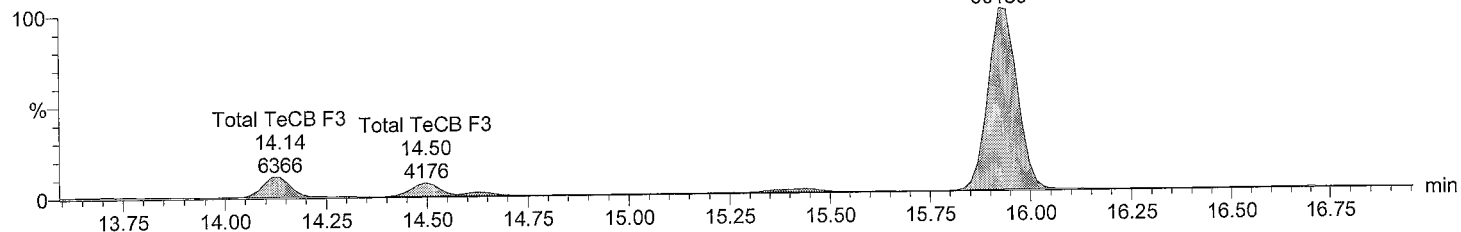


**Total TeCB F3**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

Total TeCB F3  
 15.92  
 60189

F3:SIR of 14 channels, EI+  
 291.9194  
 7.227e+005

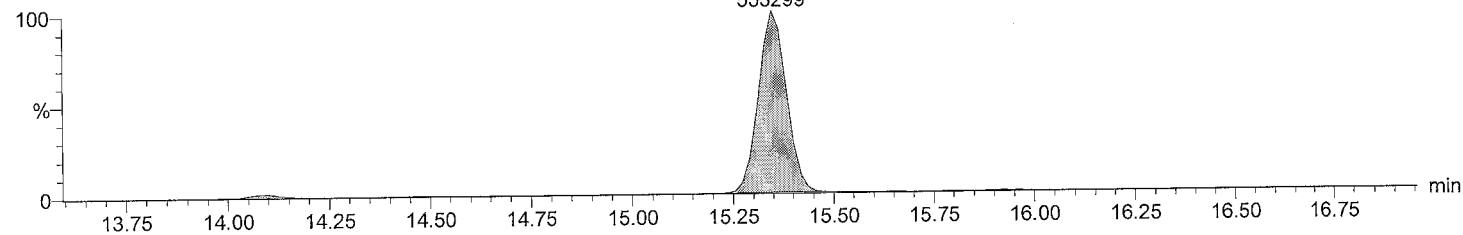


**Total TeCB labeled F3**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

PCB 52L  
 15.35  
 553299

F3:SIR of 14 channels, EI+  
 301.9626  
 6.951e+006

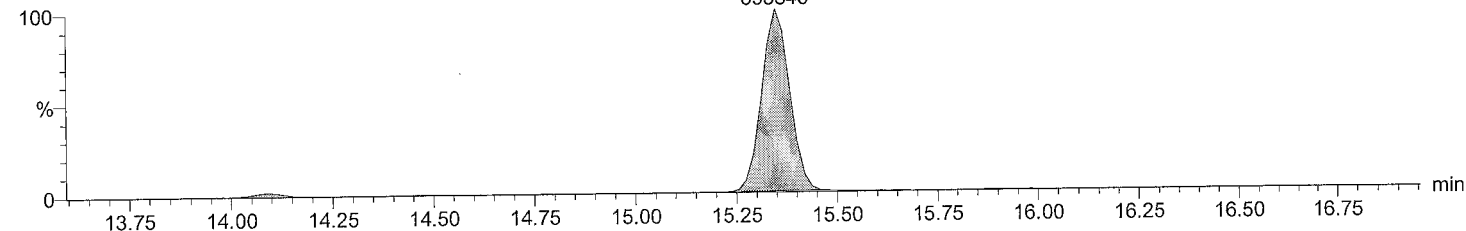


**Total TeCB labeled F3**

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**

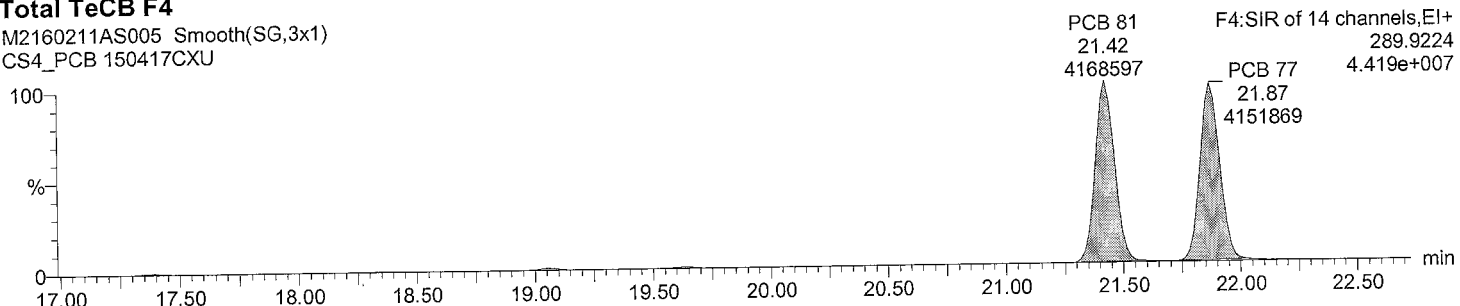
**Date: 11-FEB-2016**

**Time: 21:13:41**

**Instrument: Autospec-UltimaE**

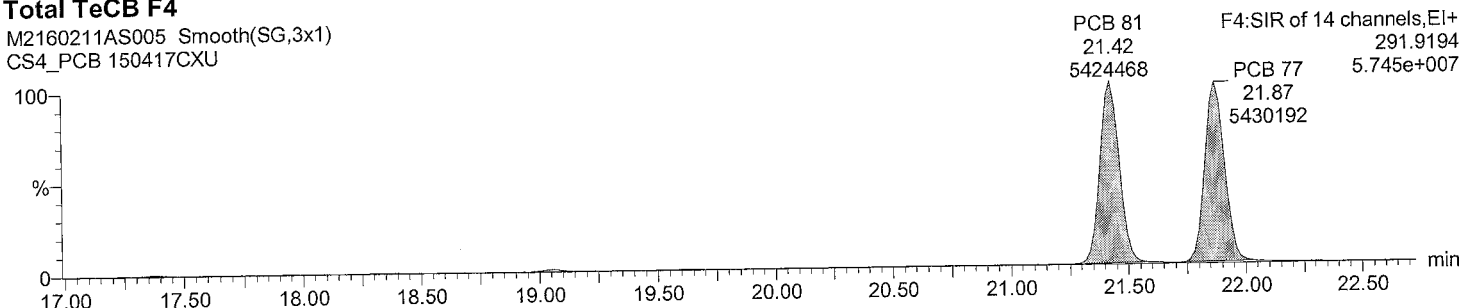
**Total TeCB F4**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU



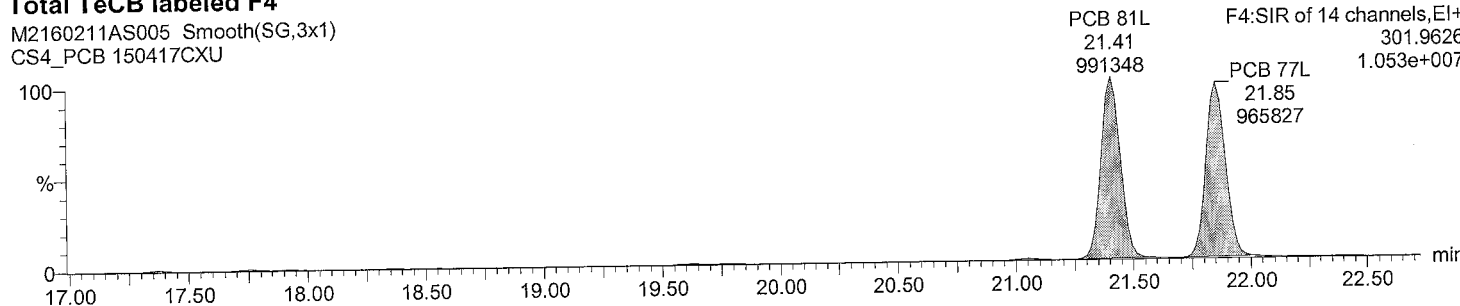
**Total TeCB F4**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU



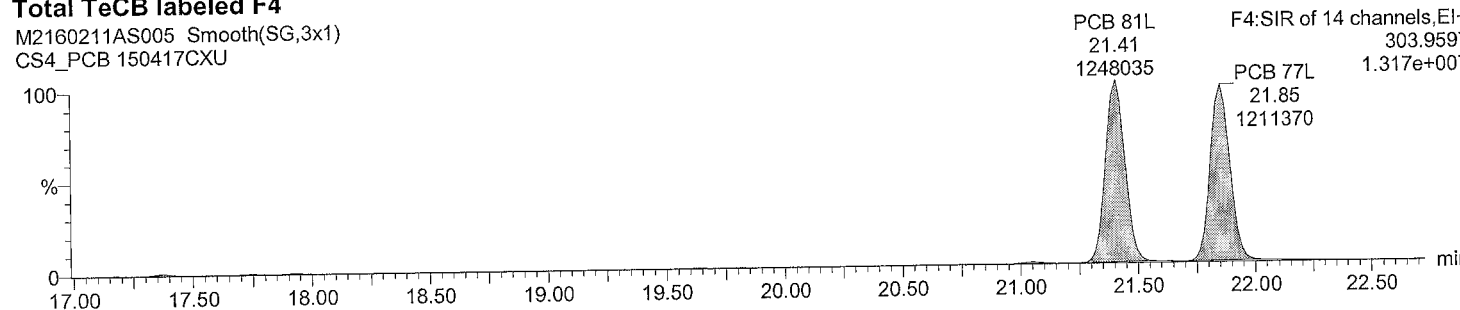
**Total TeCB labeled F4**

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

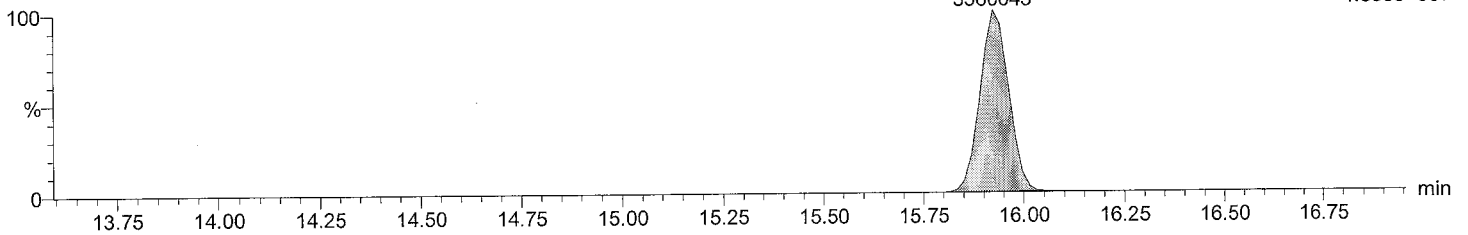
Instrument: Autospec-UltimaE

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

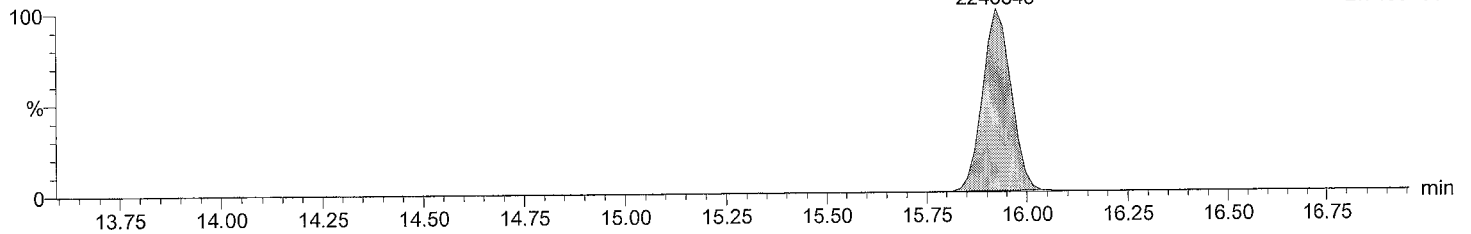


Total PeCB F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 104  
15.92  
2245549

F3:SIR of 14 channels,EI+  
327.8775  
2.749e+007

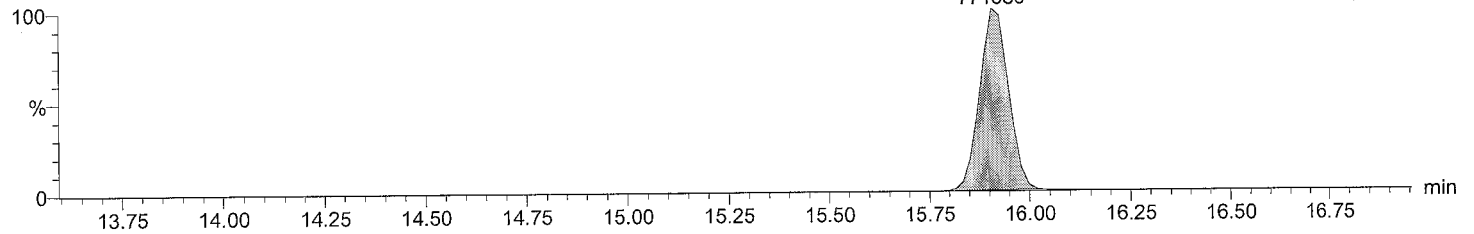


Total PeCB labeled F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 104L  
15.91  
771386

F3:SIR of 14 channels,EI+  
337.9207  
9.331e+006

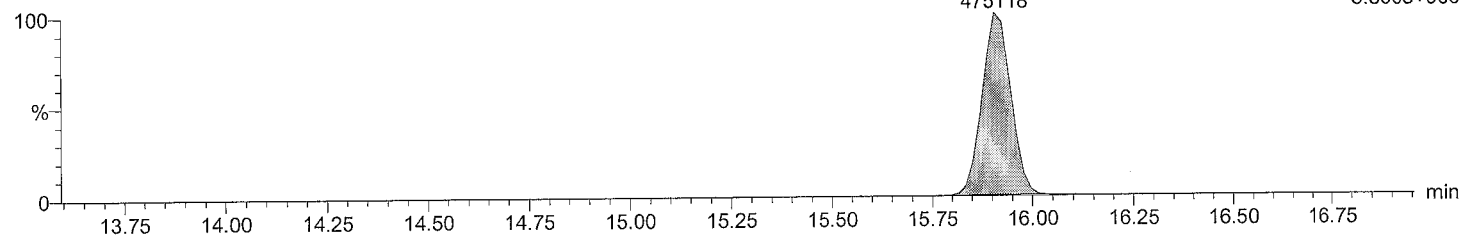


Total PeCB labeled F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 104L  
15.91  
475118

F3:SIR of 14 channels,EI+  
339.9178  
5.800e+006



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

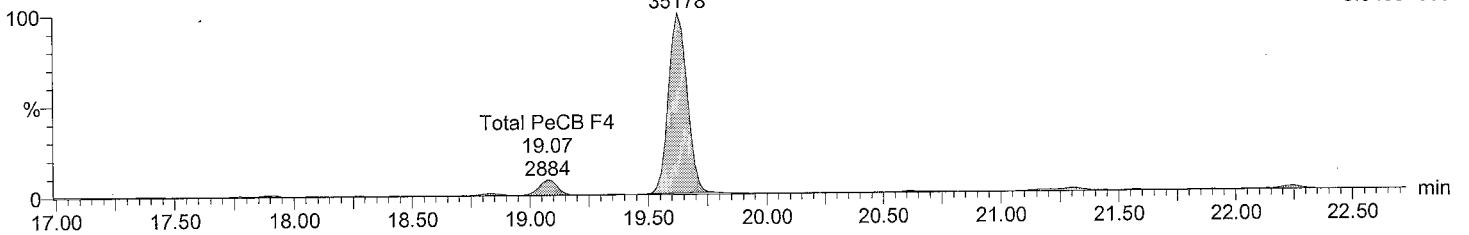
Description: CS4\_PCB 150417CXU  
Vial: 5  
Date: 11-FEB-2016  
Time: 21:13:41  
Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

Total PeCB F4  
19.63  
35178

F4:SIR of 14 channels,EI+  
325.8805  
3.945e+005

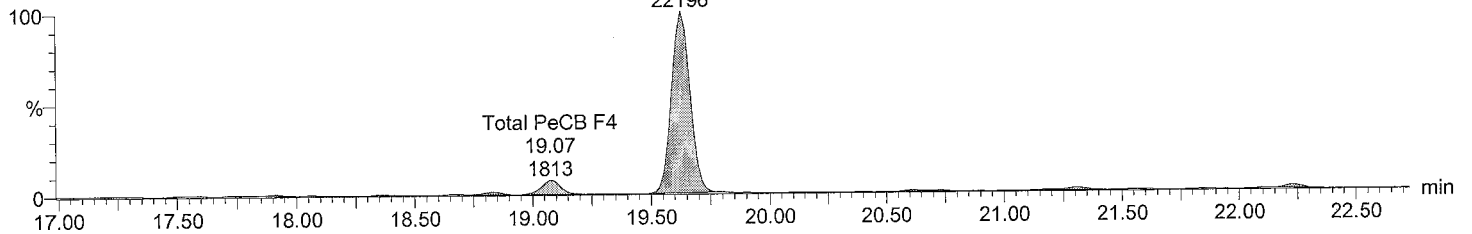


Total PeCB F4

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

Total PeCB F4  
19.63  
22196

F4:SIR of 14 channels,EI+  
327.8775  
2.495e+005



Total PeCB labeled F4

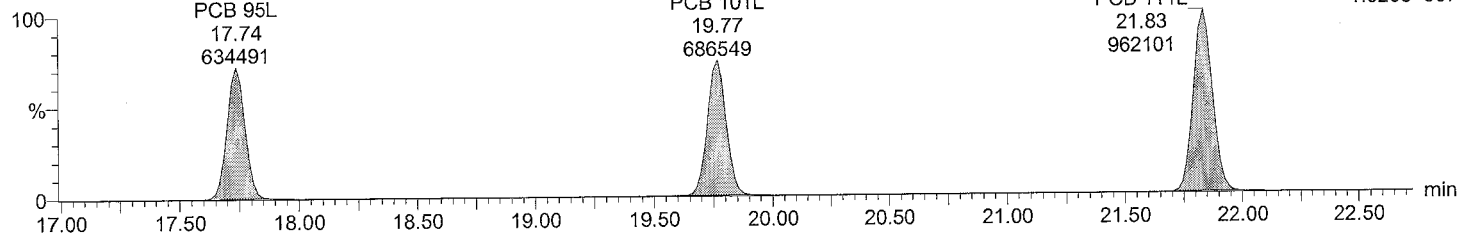
M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 95L  
17.74  
634491

PCB 101L  
19.77  
686549

PCB 111L  
21.83  
962101

F4:SIR of 14 channels,EI+  
337.9207  
1.026e+007



Total PeCB labeled F4

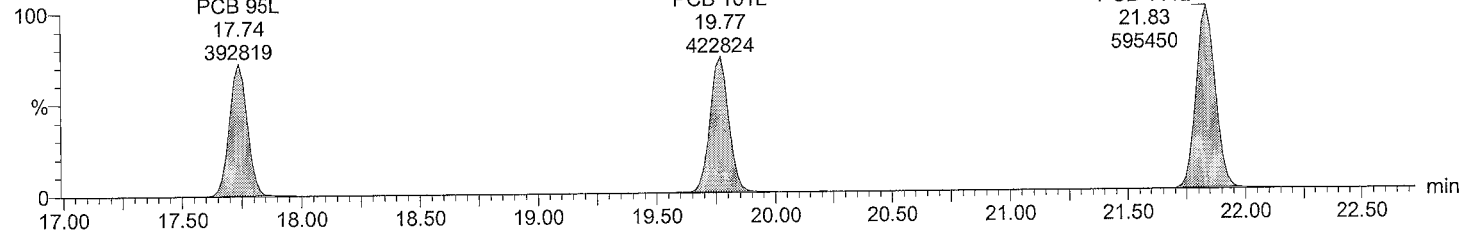
M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 95L  
17.74  
392819

PCB 101L  
19.77  
422824

PCB 111L  
21.83  
595450

F4:SIR of 14 channels,EI+  
339.9178  
6.367e+006



**Quantify Sample Report**    **MassLynx 4.0 SP1**  
 Acquired Date

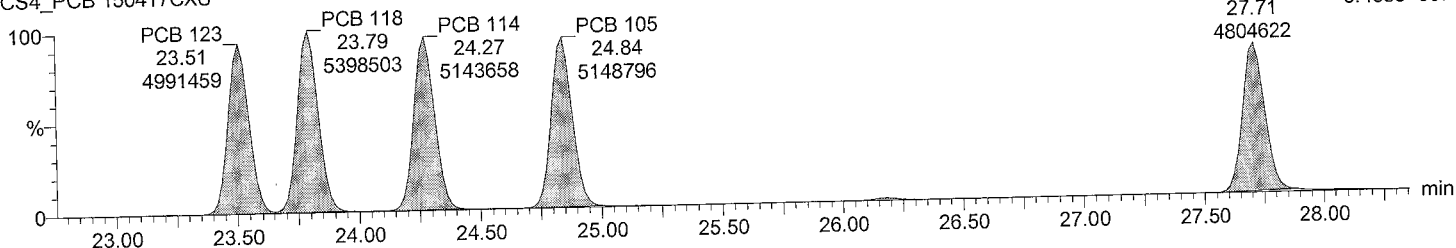
Dataset:            C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld  
 Last Altered:     February 16, 2016 8:03:15 AM Eastern Standard Time  
 Printed:            February 16, 2016 8:06:51 AM Eastern Standard Time

**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

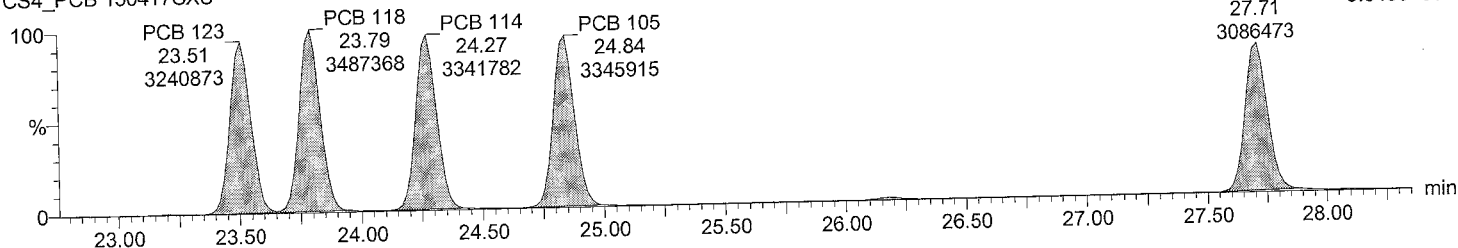
F5:SIR of 14 channels,EI+  
 PCB 126            325.8805  
 27.71               5.488e+007  
 4804622



**Total PeCB F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

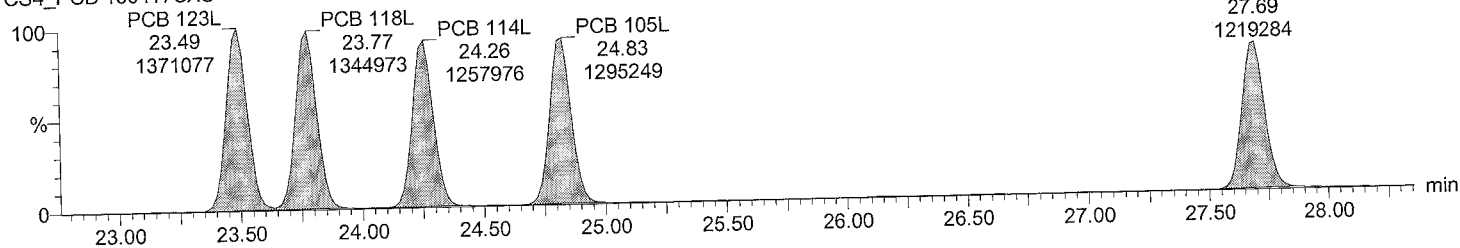
F5:SIR of 14 channels,EI+  
 PCB 126            327.8775  
 27.71               3.543e+007  
 3086473



**Total PeCB labeled F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

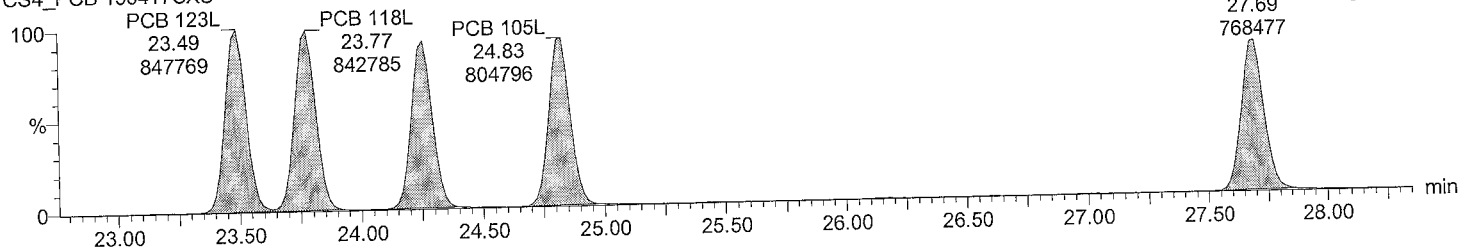
F5:SIR of 14 channels,EI+  
 PCB 126L           337.9207  
 27.69               1.392e+007  
 1219284



**Total PeCB labeled F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
 PCB 126L           339.9178  
 27.69               8.626e+006  
 768477



**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

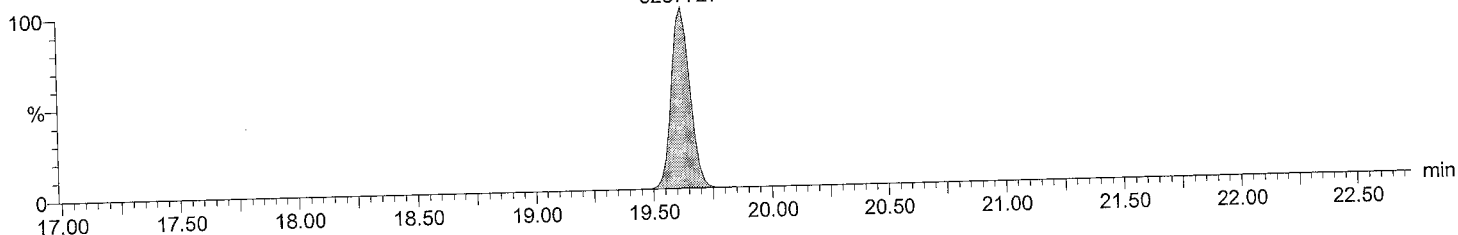
**Description: CS4\_PCB 150417CXU**  
**Vial: 5**  
**Date: 11-FEB-2016**  
**Time: 21:13:41**  
**Instrument: Autospec-UltimaE**

**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

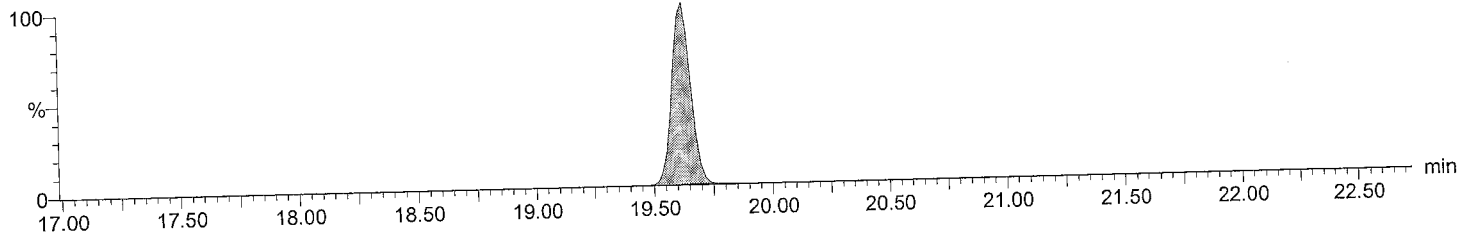


**Total HxCB F4**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 155  
19.63  
2559146

F4:SIR of 14 channels, EI+  
361.8385  
2.859e+007

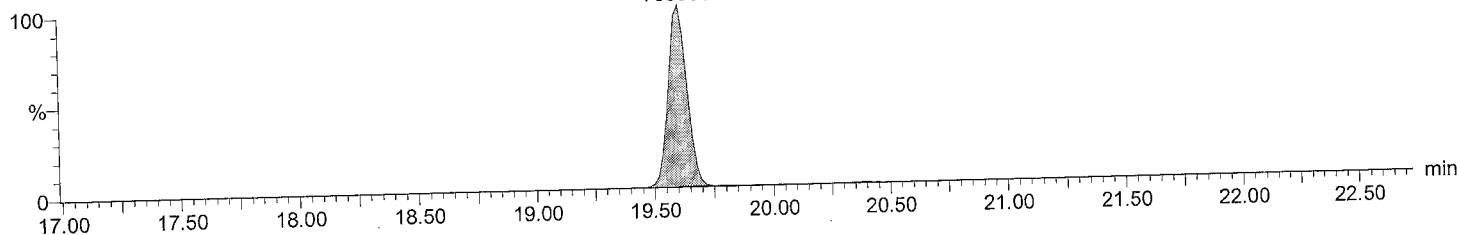


**Total HxCB labeled F4**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 155L  
19.61  
769906

F4:SIR of 14 channels, EI+  
371.8817  
8.583e+006

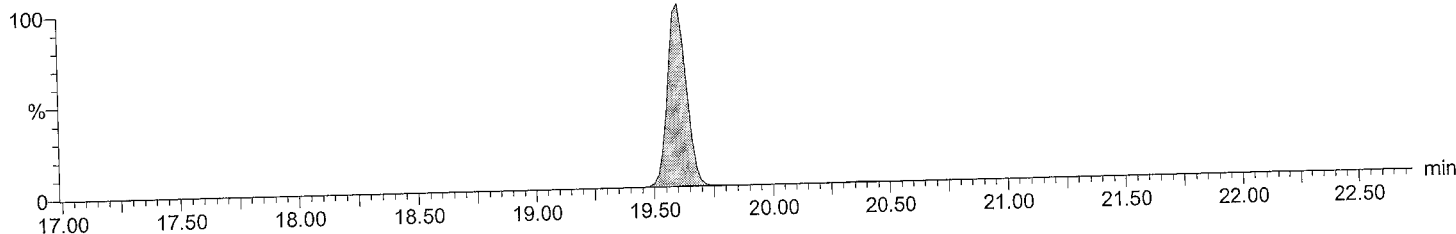


**Total HxCB labeled F4**

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

PCB 155L  
19.61  
600460

F4:SIR of 14 channels, EI+  
373.8788  
6.672e+006



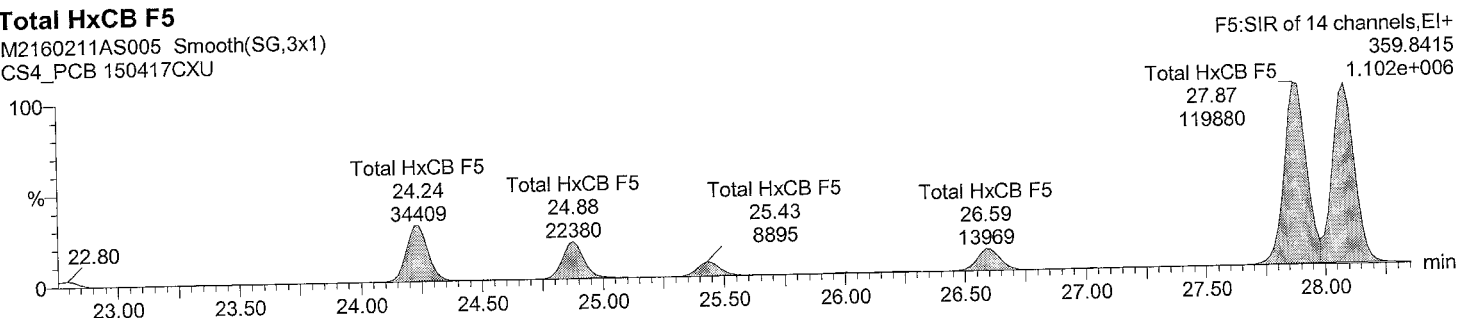
**Quantify Sample Report**    **MassLynx 4.0 SP1**  
 Acquired Date

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**

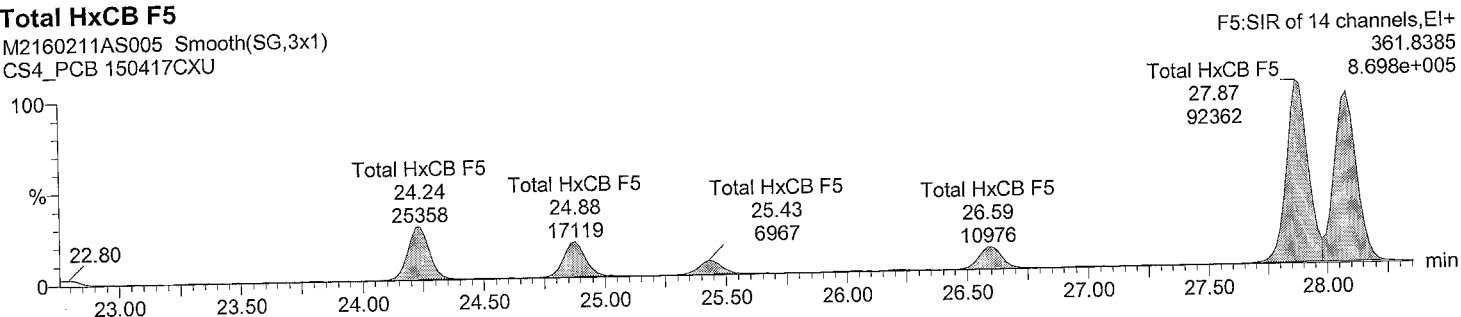
**Total HxCB F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU



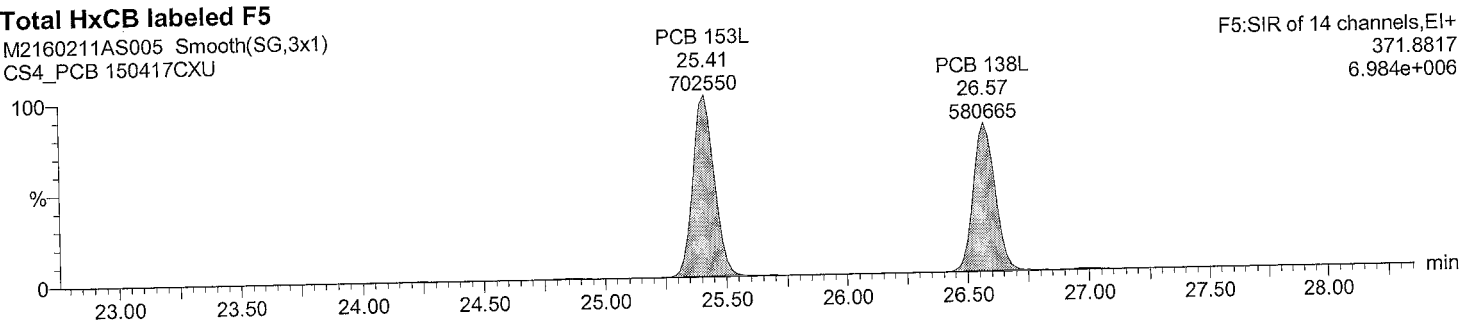
**Total HxCB F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU



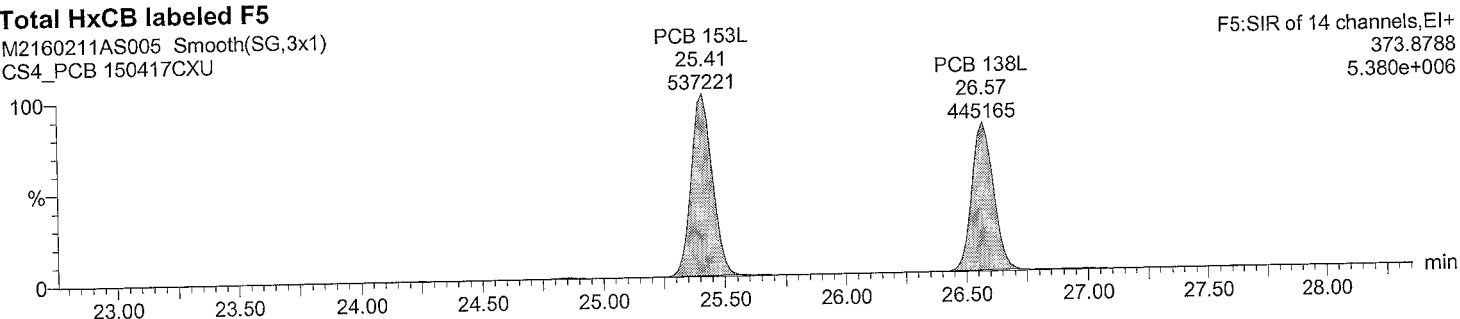
**Total HxCB labeled F5**

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**

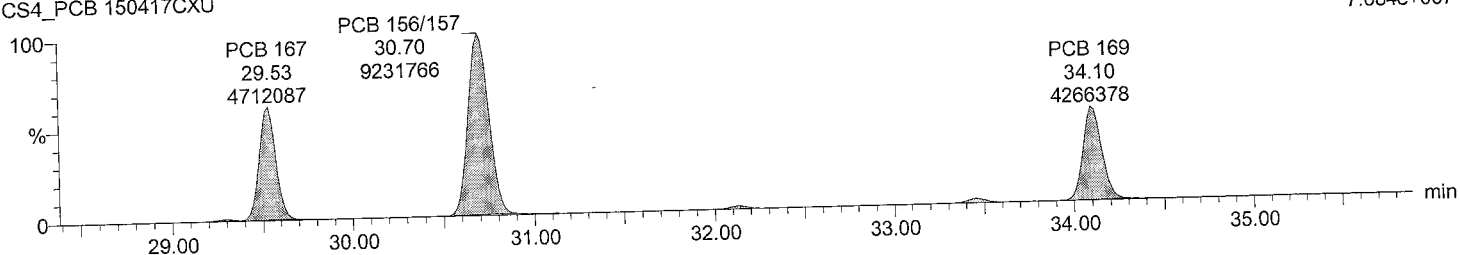
**Time: 21:13:41**

**Instrument: Autospec-UltimaE**

**Total HxCB F6**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

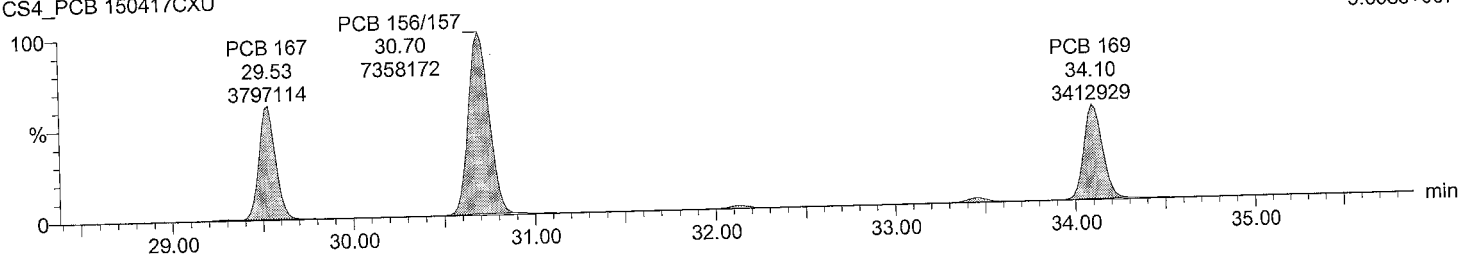
F6:SIR of 14 channels,EI+  
 359.8415  
 7.084e+007



**Total HxCB F6**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

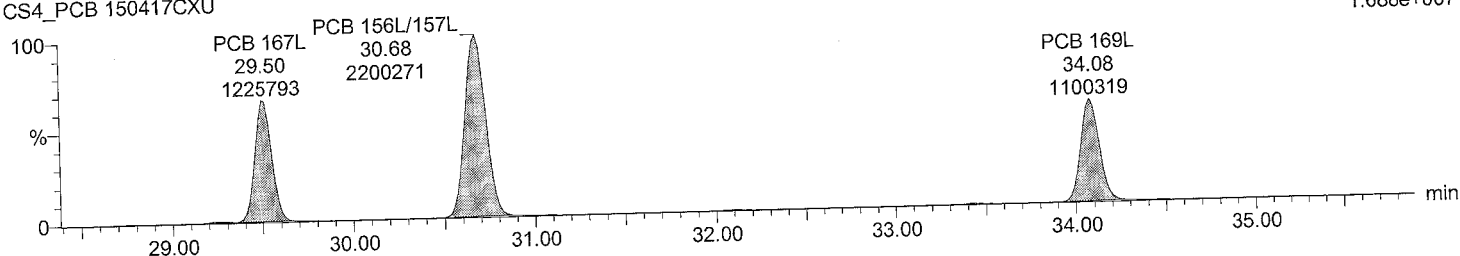
F6:SIR of 14 channels,EI+  
 361.8385  
 5.658e+007



**Total HxCB labeled F6**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

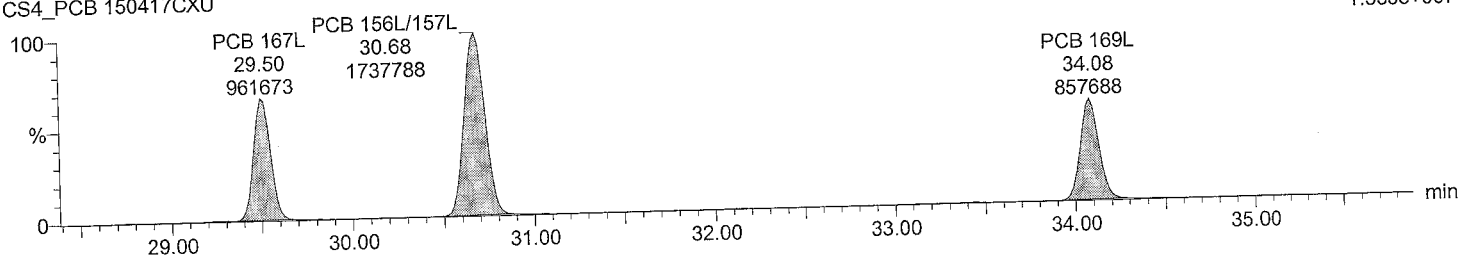
F6:SIR of 14 channels,EI+  
 371.8817  
 1.688e+007



**Total HxCB labeled F6**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

F6:SIR of 14 channels,EI+  
 373.8788  
 1.335e+007



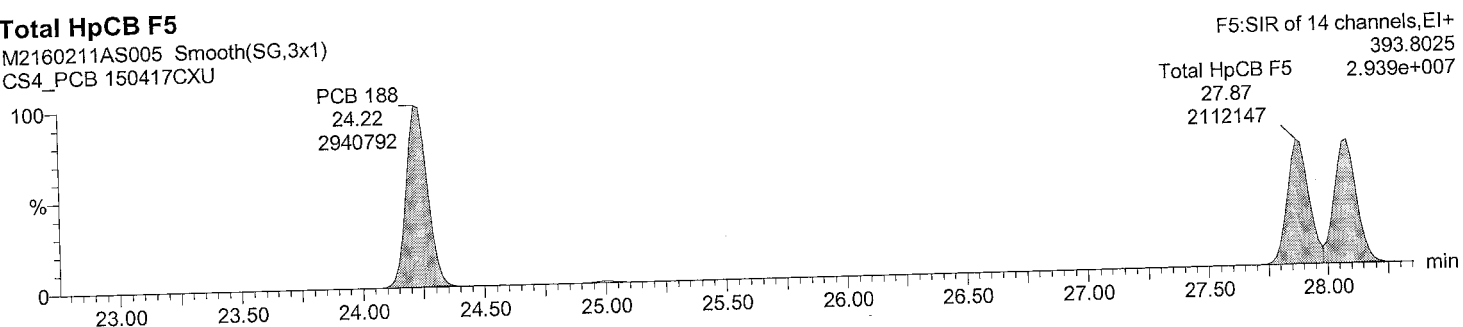
**Quantify Sample Report** MassLynx 4.0 SP1  
 Acquired Date

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**

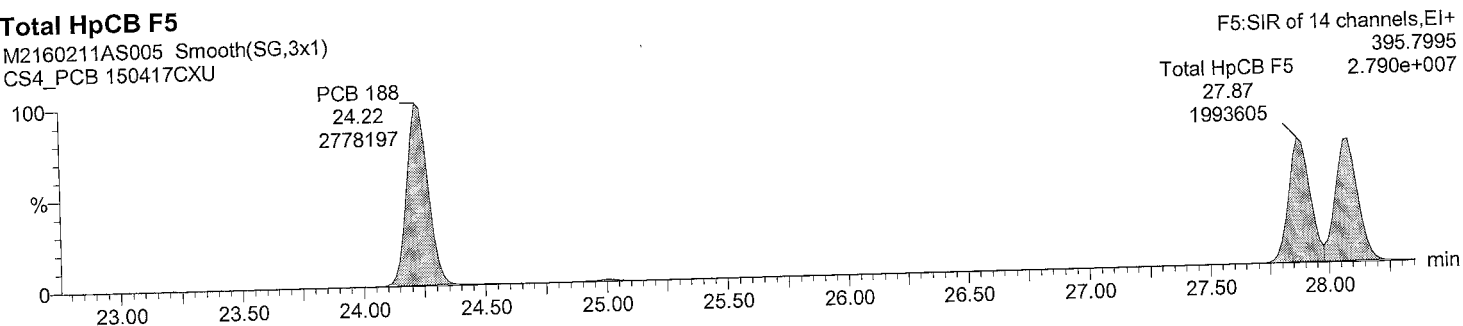
**Total HpCB F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU



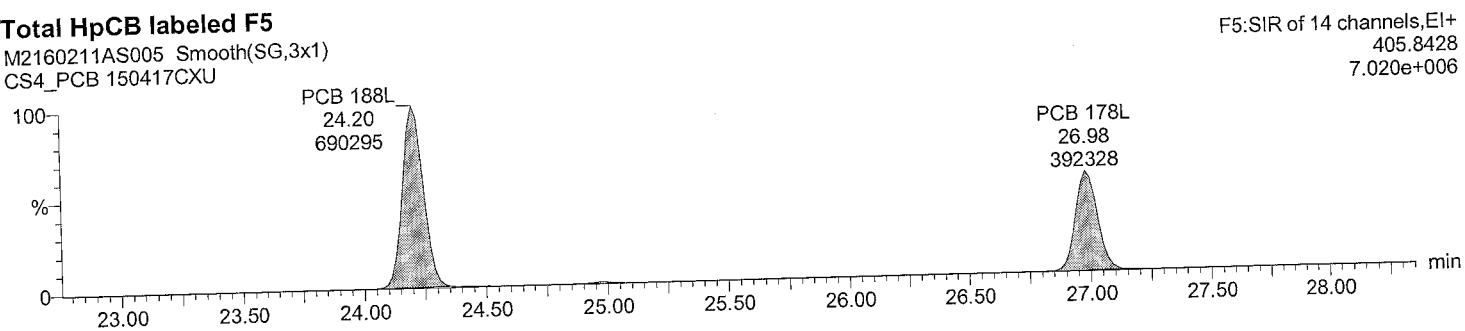
**Total HpCB F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU



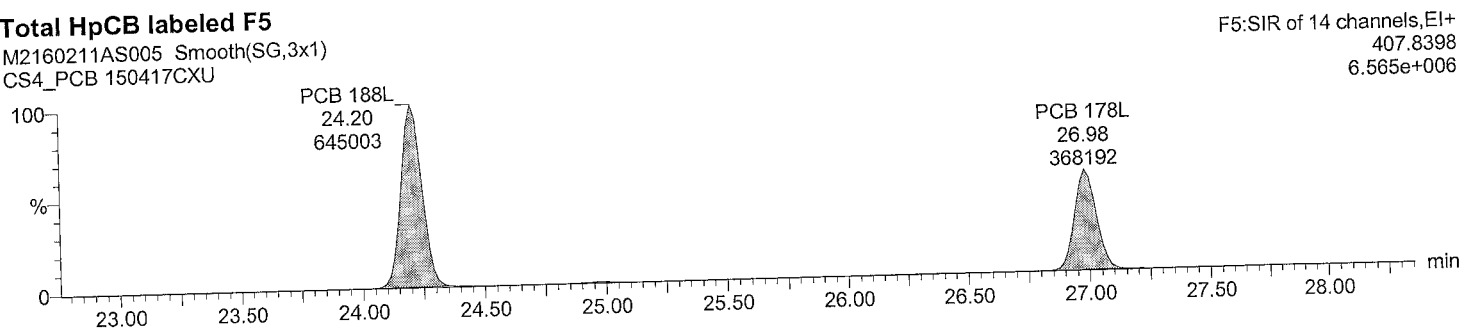
**Total HpCB labeled F5**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU



**Total HpCB 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**

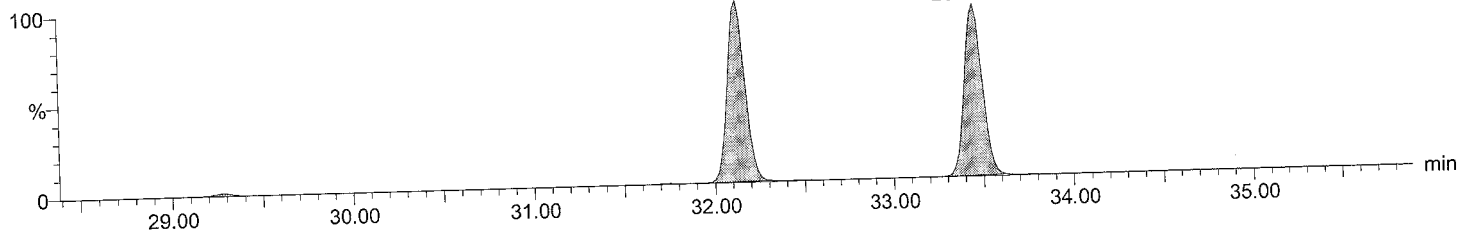
**Total HpCB F6**

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



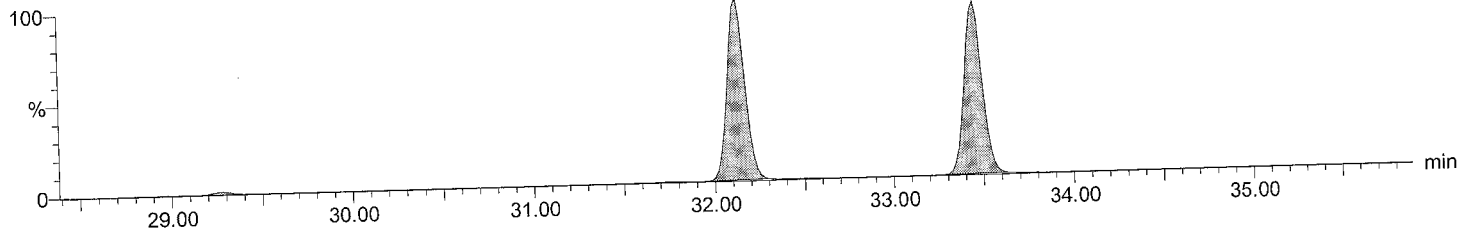
**Total HpCB F6**

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



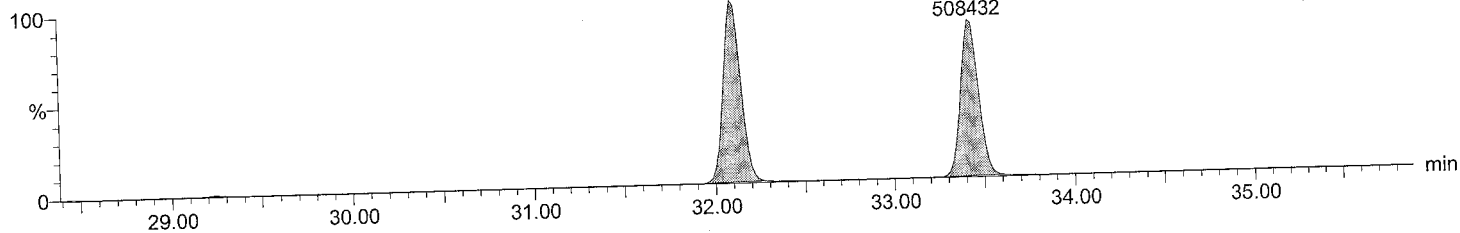
**Total HpCB labeled F6**

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



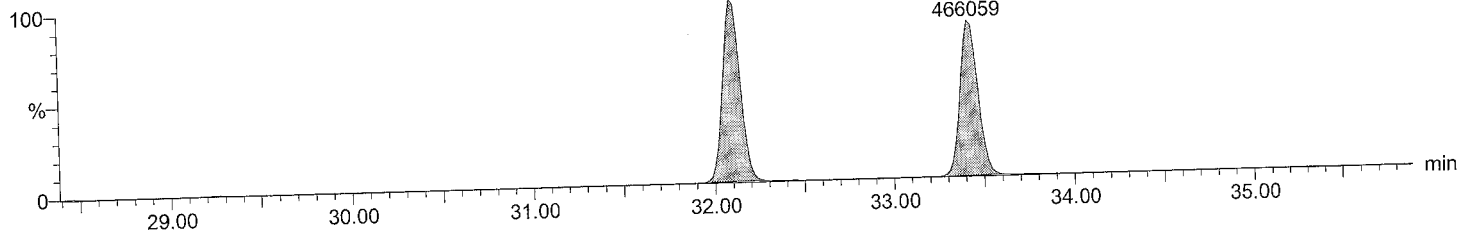
**Total HpCB labeled F6**

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**

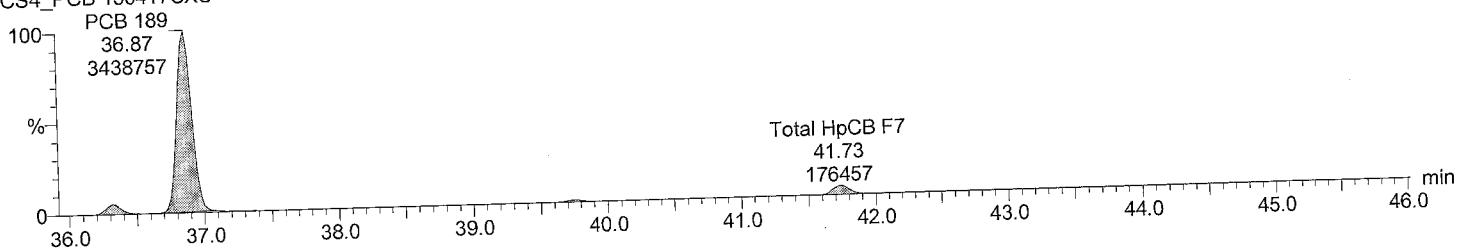
**Time: 21:13:41**

**Instrument: Autospec-UltimaE**

**Total HpCB F7**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

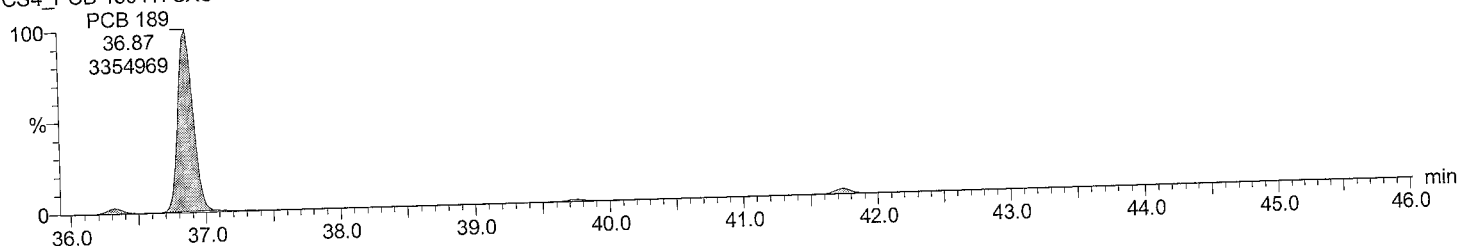
F7:SIR of 18 channels, EI+  
 393.8025  
 2.702e+007



**Total HpCB F7**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

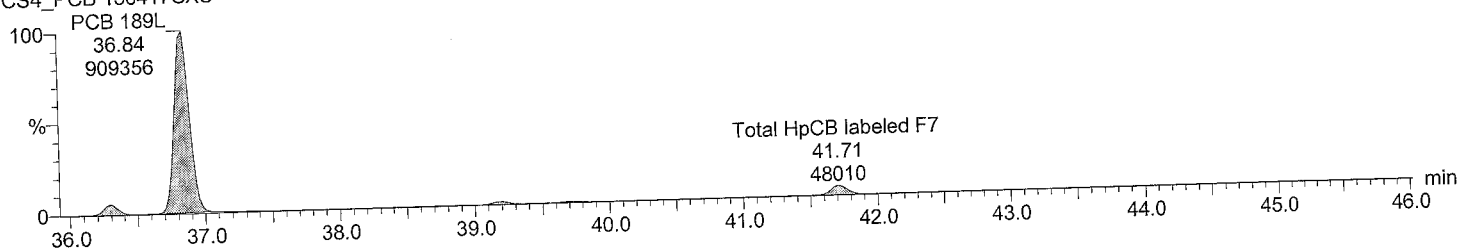
F7:SIR of 18 channels, EI+  
 395.7995  
 2.619e+007



**Total HpCB labeled F7**

M2160211AS005 Smooth(SG,3x1)  
 CS4\_PCB 150417CXU

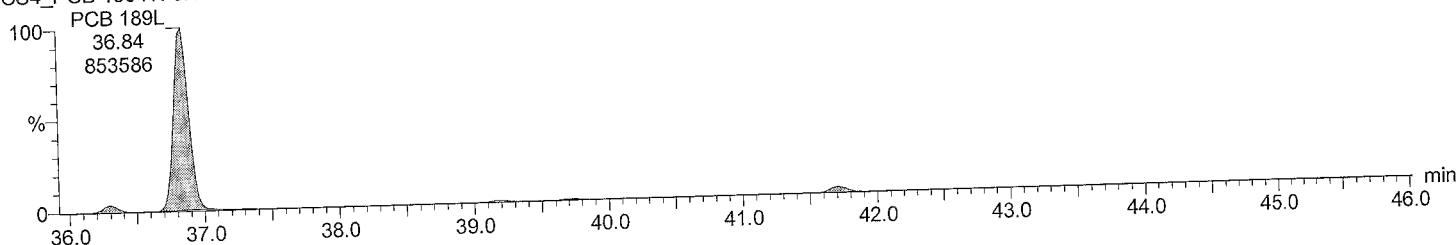
F7:SIR of 18 channels, EI+  
 405.8428  
 7.094e+006



**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

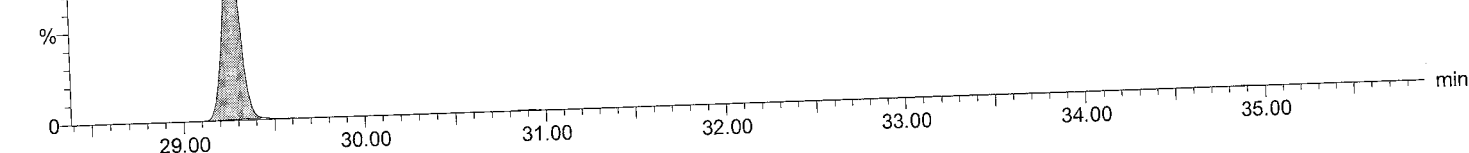
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

PCB 202

29.26

2319246



**Total OcCB F6**

F6:SIR of 14 channels, EI+  
429.7606  
2.415e+007

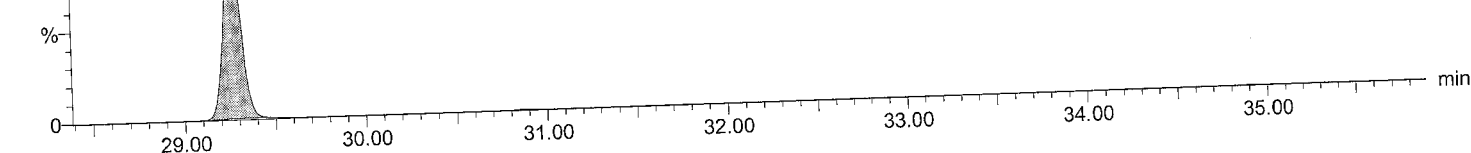
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

PCB 202

29.26

2582348



**Total OcCB labeled F6**

F6:SIR of 14 channels, EI+  
439.8038  
5.191e+006

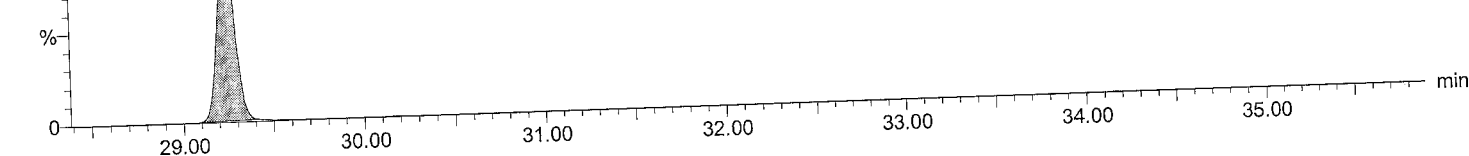
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

PCB 202L

29.25

553734



**Total OcCB labeled F6**

F6:SIR of 14 channels, EI+  
441.8008  
5.652e+006

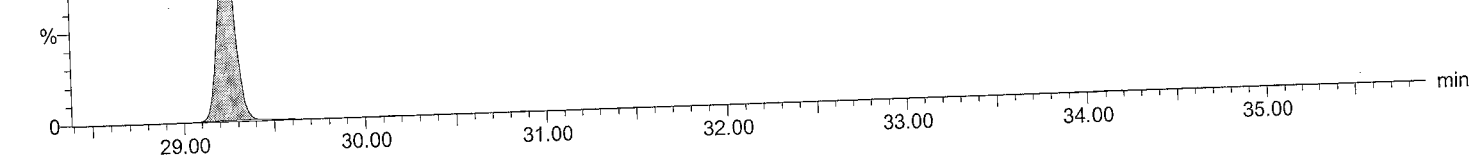
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

PCB 202L

29.25

603124



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

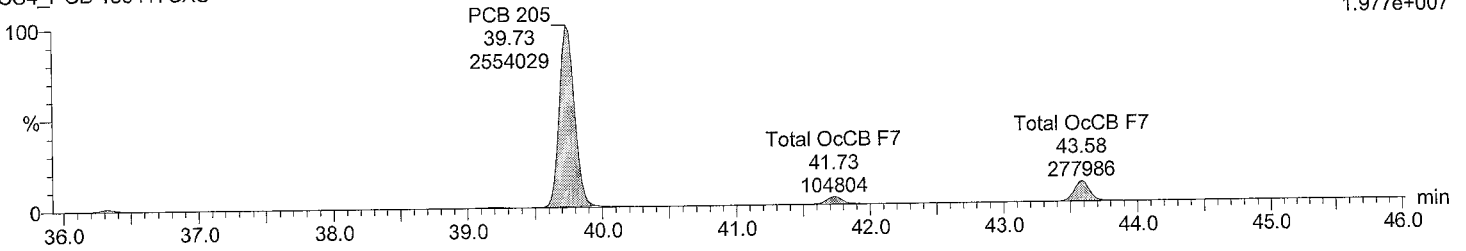
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

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

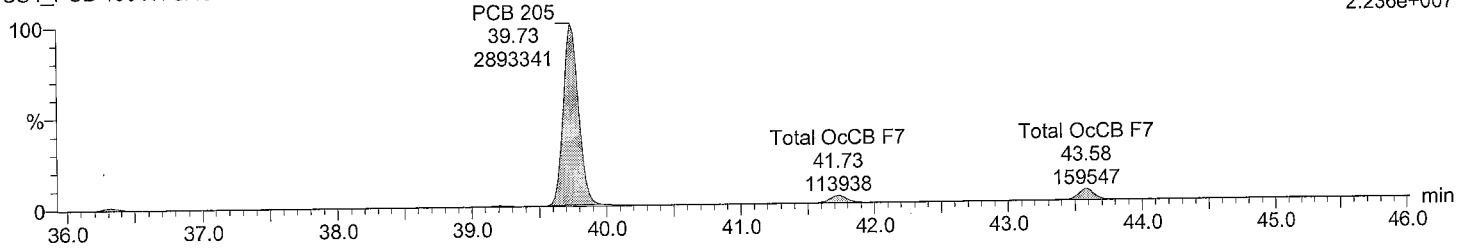
F7:SIR of 18 channels, EI+  
427.7635  
1.977e+007



Total OcCB F7

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

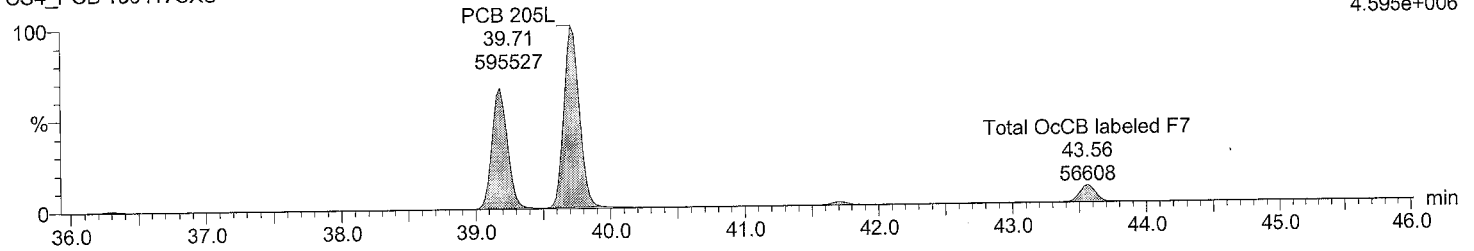
F7:SIR of 18 channels, EI+  
429.7606  
2.236e+007



Total OcCB labeled F7

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

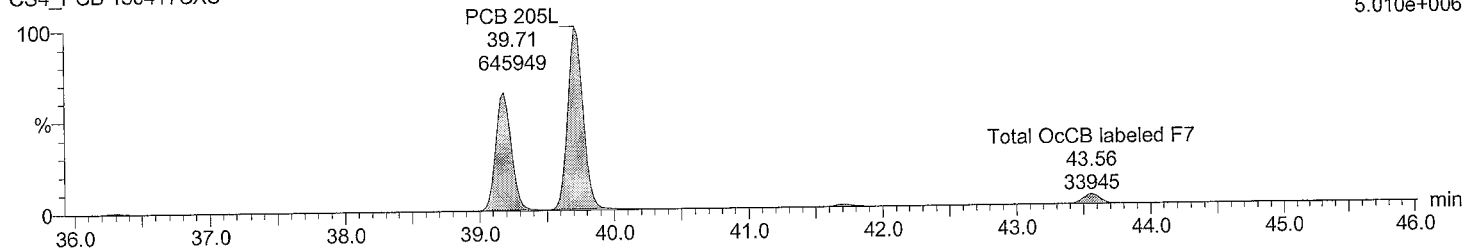
F7:SIR of 18 channels, EI+  
439.8038  
4.595e+006



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

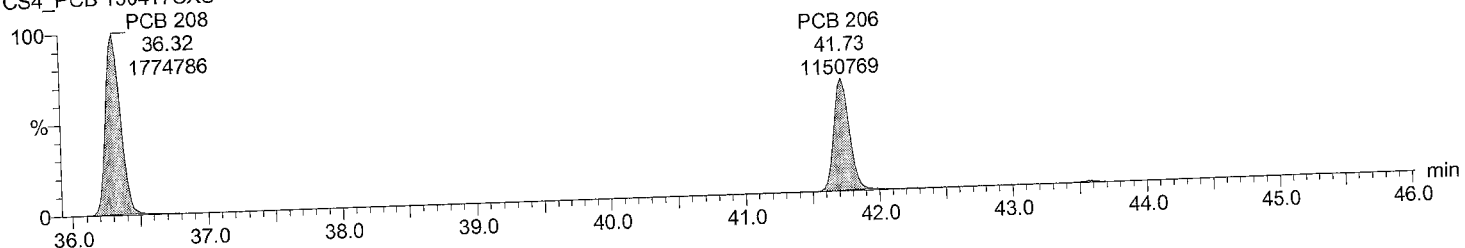
Time: 21:13:41

Instrument: Autospec-UltimaE

**Total NoCB F7**

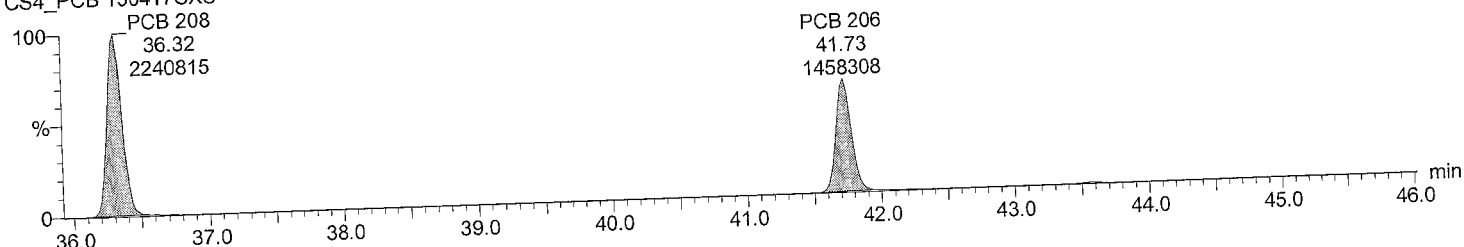
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F7:SIR of 18 channels, EI+  
461.7246  
1.419e+007
**Total NoCB F7**

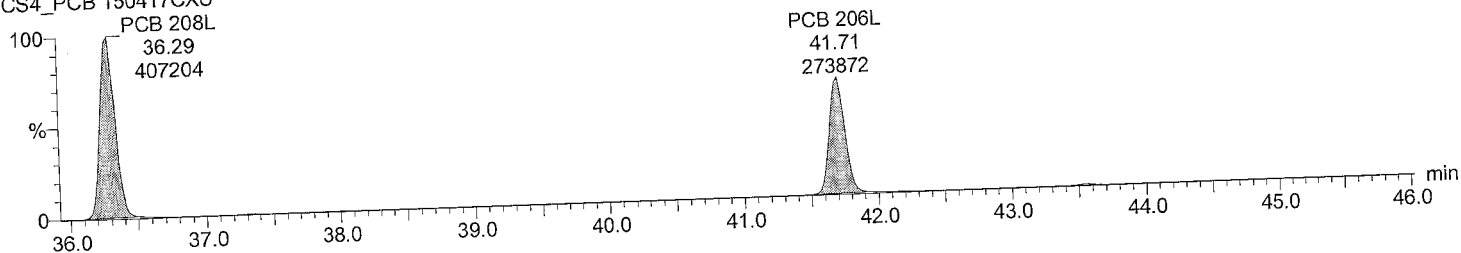
M2160211AS005 Smooth(SG,3x1)

CS4\_PCB 150417CXU

F7:SIR of 18 channels, EI+  
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1.790e+007
**Total NoCB labeled F7**

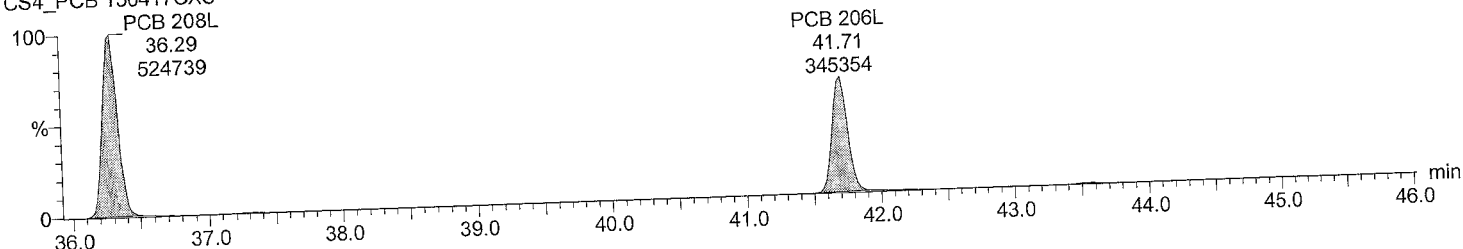
M2160211AS005 Smooth(SG,3x1)

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

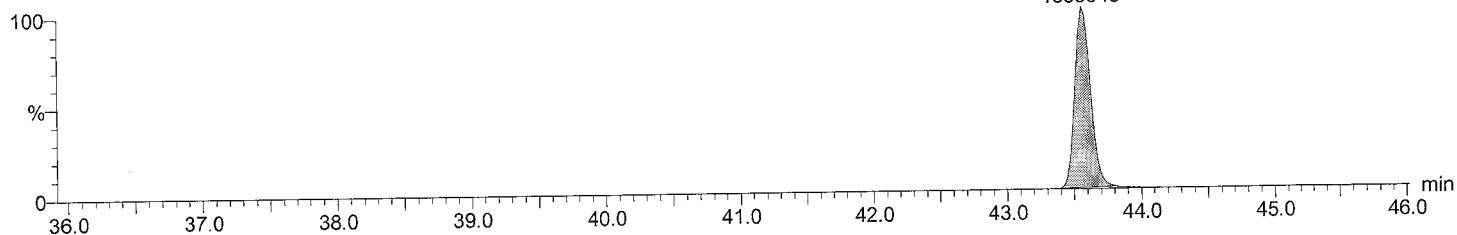
Time: 21:13:41

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

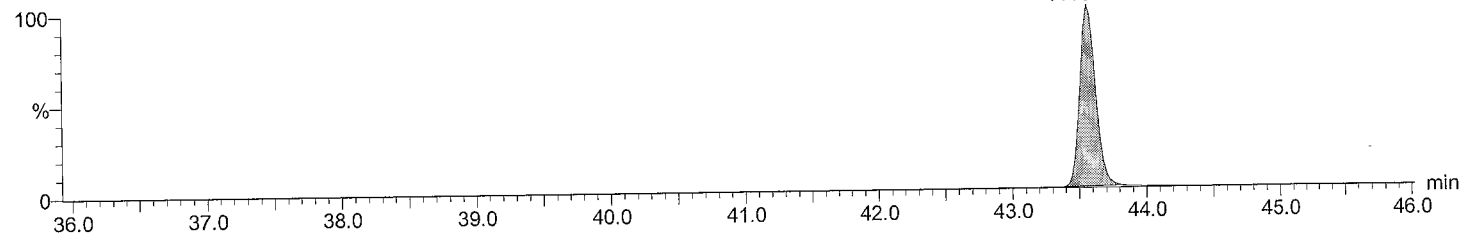
PCB 209 F7:SIR of 18 channels,EI+  
43.56 497.6826  
1335343 1.011e+007



Total DeCB F7

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

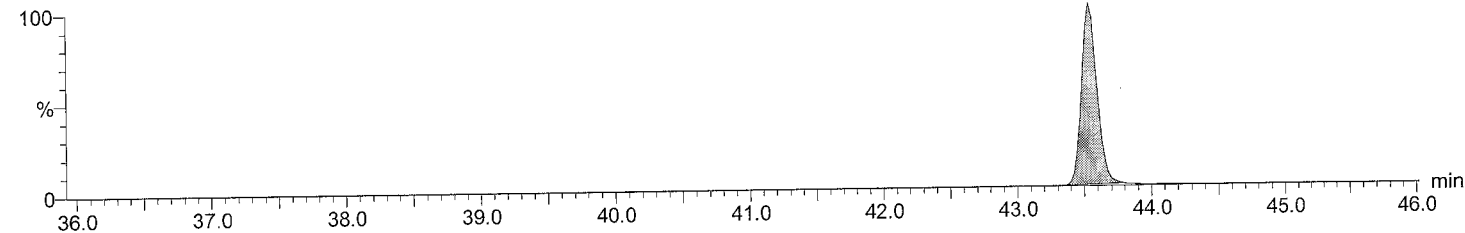
PCB 209 F7:SIR of 18 channels,EI+  
43.56 499.6797  
1110428 8.424e+006



Total DeCB labeled F7

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

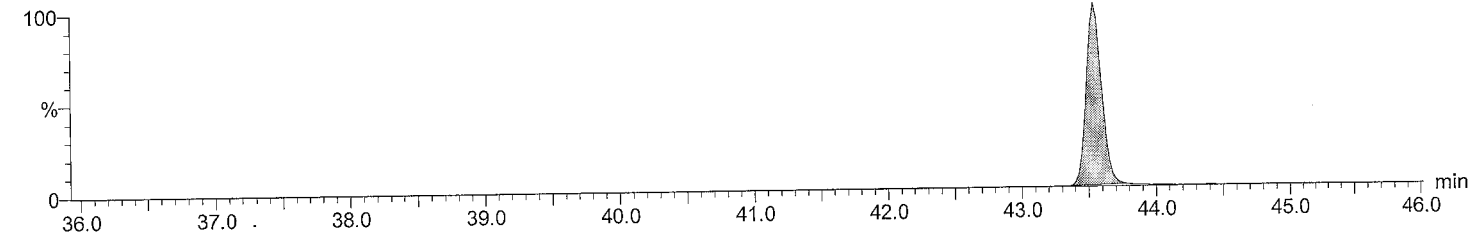
PCB 209L F7:SIR of 18 channels,EI+  
43.54 509.7229  
317324 2.431e+006



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

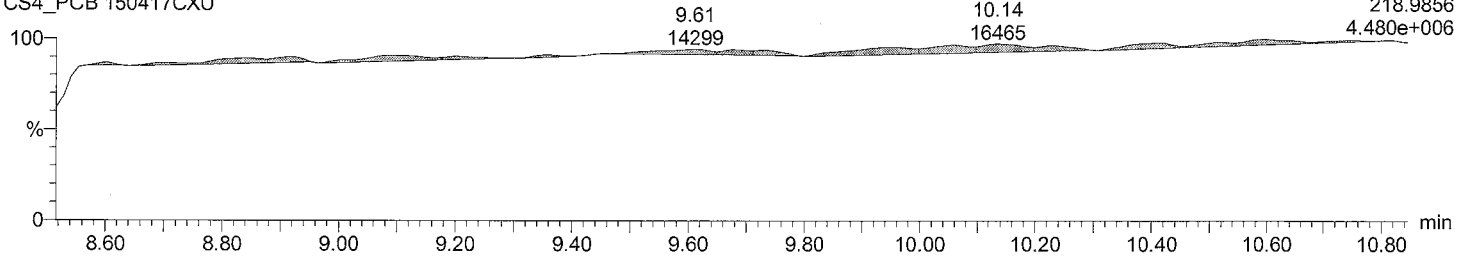
lockmass F1

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

lockmass F1

lockmass F1

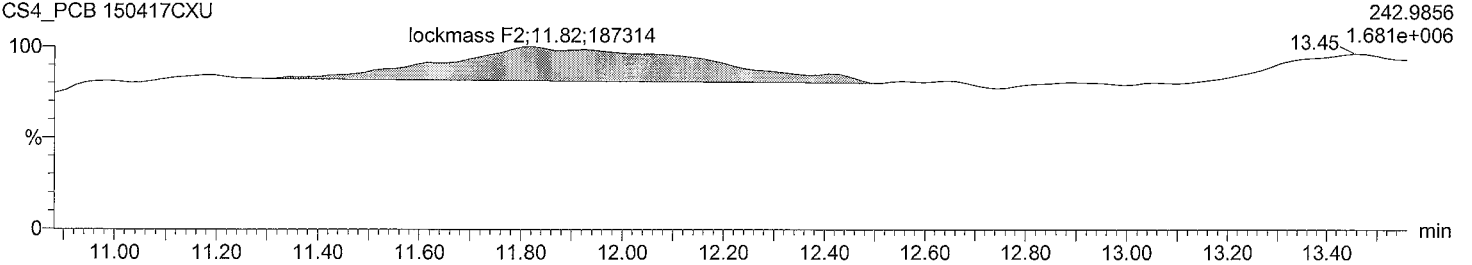
F1:SIR of 10 channels,EI+



lockmass F2

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

F2:SIR of 16 channels,EI+



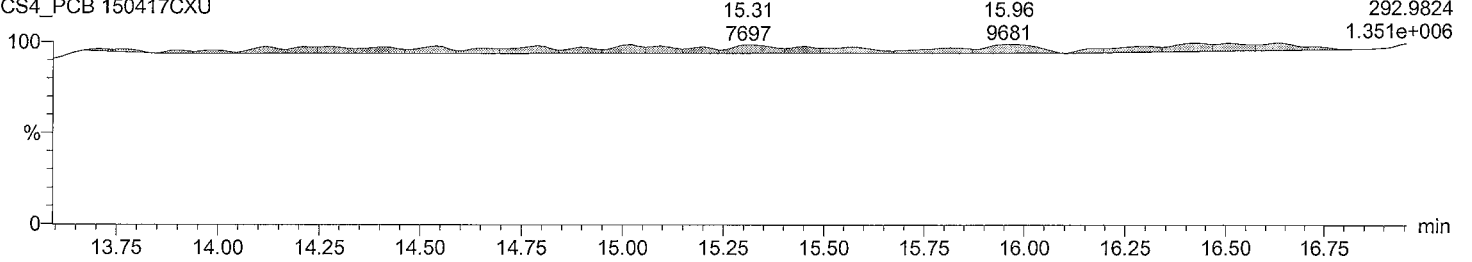
lockmass F3

M2160211AS005 Smooth(SG,3x1)  
CS4\_PCB 150417CXU

lockmass F3

lockmass F3

F3:SIR of 14 channels,EI+

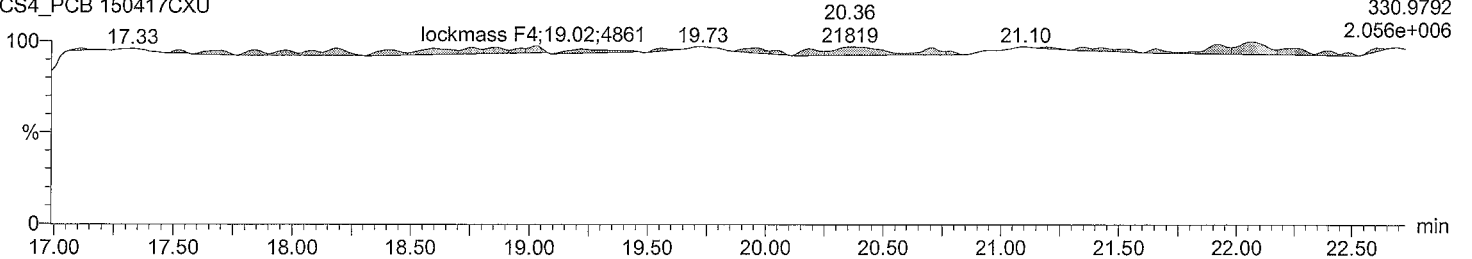


lockmass F4

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**

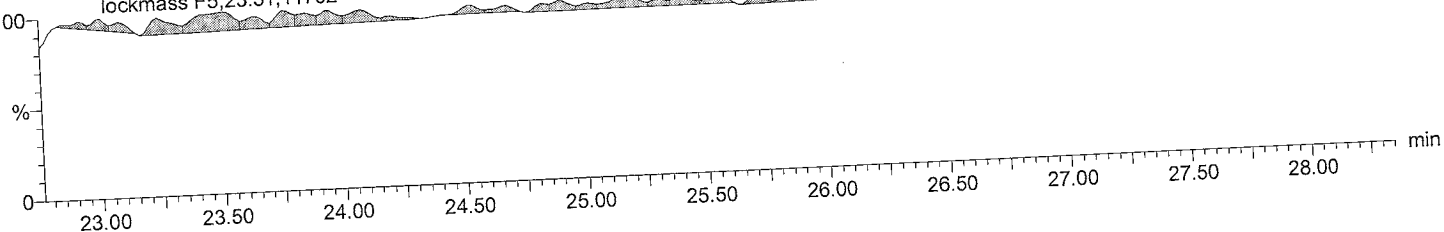
M2160211AS005 Smooth(SG,3x1)

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)

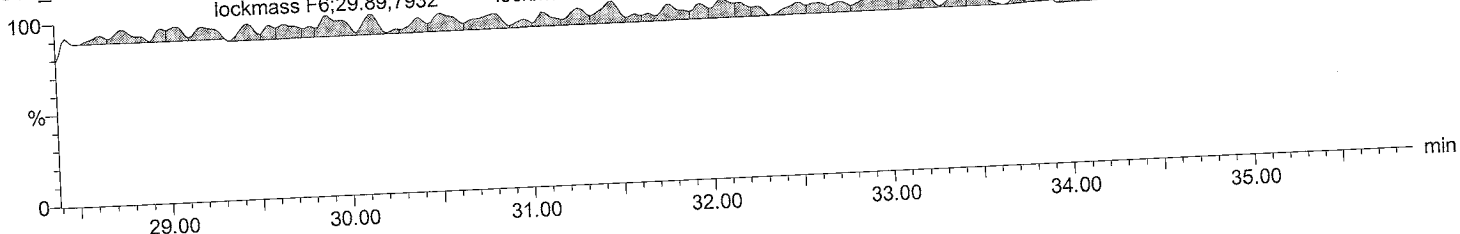
CS4\_PCB 150417CXU

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)

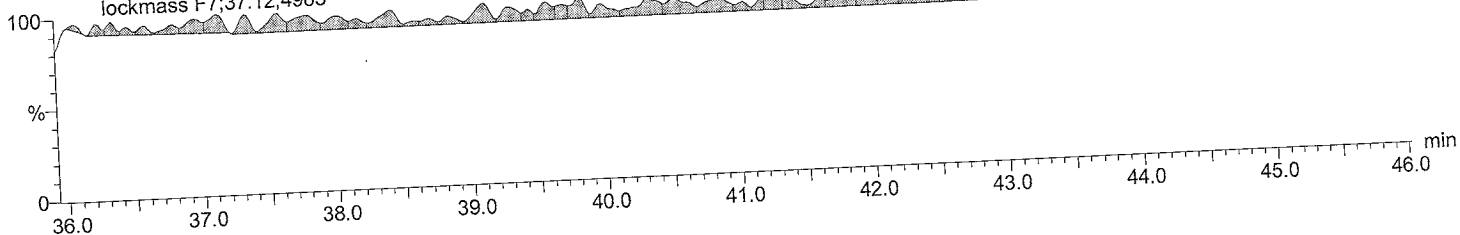
CS4\_PCB 150417CXU

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



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: 22:03:55

Instrument: Autospec-UltimaE

Description: CS5\_PCB 150417CXU

#	Name	RT	RRT	Area	Sec Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRE
1	PCB 1	8.99	1.001	24703482	7776331	3.18	YES	bb	2088....	4.4	104	29	1.129
2	PCB 3	10.19	1.001	26479004	8267432	3.20	YES	bd	2067....	3.4	103	30	1.115
3	PCB 4	10.30	1.001	11211009	7169348	1.56	YES	bb	2065....	3.3	103	31	0.985
4	PCB 15	12.93	1.000	22328206	14540719	1.54	YES	db	2101....	5.1	105	32	0.915
5	PCB 19	11.68	1.002	9280472	8954110	1.04	YES	bb	2116....	5.8	106	33	0.951
6	PCB 37	16.68	1.001	18578534	18041260	1.03	YES	bb	2038....	1.9	102	34	0.923
7	PCB 54	13.06	1.000	10437471	13485612	0.77	YES	bb	2074....	3.7	104	35	0.944
8	PCB 81	21.42	1.001	15937580	20878778	0.76	YES	bb	2028....	1.4	101	36	1.042
9	PCB 77	21.87	1.001	15995979	21051996	0.76	YES	bb	1987....	-0.6	99	37	1.071
10	PCB 104	15.93	1.001	15317222	9857681	1.55	YES	bb	2038....	1.9	102	38	1.115
11	PCB 123	23.51	1.001	20254658	13157641	1.54	YES	bd	2072....	3.6	104	39	0.927
12	PCB 118	23.79	1.001	22892800	14783205	1.55	YES	db	2075....	3.8	104	40	1.019
13	PCB 114	24.27	1.001	22099526	14241938	1.55	YES	bb	2047....	2.4	102	41	1.034
14	PCB 105	24.84	1.001	22249372	14443308	1.54	YES	bb	2077....	3.9	104	42	1.014
15	PCB 126	27.71	1.001	21984454	13853491	1.59	YES	bd	2059....	3.0	103	43	1.005
16	PCB 155	19.63	1.001	14524433	11457932	1.27	YES	bb	2082....	4.1	104	44	1.038
17	PCB 167	29.53	1.001	20703446	16641284	1.24	YES	db	2073....	3.7	104	45	0.981
18	PCB 156/157	30.70	1.001	41345808	33185102	1.25	YES	bb	4076....	1.9	102	46	1.037
19	PCB 169	34.10	1.000	19222178	15249461	1.26	YES	bb	2042....	2.1	102	47	0.975
20	PCB 188	24.22	1.001	12861254	12152562	1.06	YES	bb	2118....	5.9	106	48	1.072
21	PCB 193/180	32.13	1.001	12434092	11685552	1.06	YES	bb	2115....	5.8	106	49	1.205
22	PCB 170	33.45	1.001	12203535	11476132	1.06	YES	bb	2076....	3.8	104	50	1.320
23	PCB 189	36.87	1.001	15403039	15232927	1.01	YES	bb	2015....	0.8	101	51	0.951
24	PCB 202	29.26	1.001	10302207	11448066	0.90	YES	bb	2146....	7.3	107	52	1.060
25	PCB 205	39.73	1.001	12300235	13716375	0.90	YES	bb	2018....	0.9	101	53	1.101
26	PCB 208	36.32	1.001	7996605	10087647	0.79	YES	bb	2095....	4.8	105	54	1.072
27	PCB 206	41.73	1.000	5603406	7082009	0.79	YES	bb	2083....	4.2	104	55	1.070
28	PCB 209	43.56	1.000	6647182	5529123	1.20	YES	bb	2030....	1.5	102	56	1.056
29	PCB 1L	8.98	0.803	1089838	347980	3.13	YES	bb	103.114	3.1	103	63	0.849
30	PCB 3L	10.17	0.910	1186183	371667	3.19	YES	bb	107.977	8.0	108	63	0.920
31	PCB 4L	10.28	0.920	568292	364687	1.56	YES	bb	101.578	1.6	102	63	0.551
32	PCB 15L	12.93	1.157	1242067	772830	1.61	YES	db	110.800	10.8	111	63	1.190
33	PCB 19L	11.66	1.043	490244	468426	1.05	YES	bb	97.948	-2.1	98	63	0.566
34	PCB 37L	16.67	1.086	1014176	970096	1.04	YES	bb	104.078	4.1	104	64	2.068
35	PCB 54L	13.06	0.851	562084	704420	0.80	YES	bb	101.723	1.7	102	64	1.320
36	PCB 81L	21.41	1.395	784846	982586	0.80	YES	bb	105.970	6.0	106	64	1.842
37	PCB 77L	21.85	1.424	768868	961095	0.80	YES	bb	107.485	7.5	107	64	1.803
38	PCB 104L	15.91	0.805	692714	435925	1.59	YES	bb	106.044	6.0	106	65	1.225
39	PCB 123L	23.49	1.188	1106384	696310	1.59	YES	bd	101.114	1.1	101	65	1.957
40	PCB 118L	23.78	1.203	1139007	710313	1.60	YES	db	105.365	5.4	105	65	2.008
41	PCB 114L	24.26	1.227	1082739	674330	1.61	YES	bb	107.617	7.6	108	65	1.908
42	PCB 105L	24.83	1.256	1114979	693953	1.61	YES	bb	107.780	7.8	108	65	1.964
43	PCB 126L	27.69	1.401	1096756	685412	1.60	YES	bb	111.504	11.5	112	65	1.935
44	PCB 155L	19.61	0.738	698674	553281	1.26	YES	bb	108.043	8.0	108	66	1.516
45	PCB 167L	29.50	1.110	1065095	839268	1.27	YES	db	109.326	9.3	109	66	2.307
46	PCB 156L/157L	30.68	1.155	2014929	1579938	1.27	YES	bb	226.674	13.3	113	66	2.177
47	PCB 169L	34.08	1.283	988570	779352	1.27	YES	bb	113.524	13.5	114	66	2.141
48	PCB 188L	24.20	0.911	602543	564535	1.07	YES	bb	106.334	6.3	106	66	1.414



Quantify Sample Summary 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 8:07:11 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

Description: CS5\_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	518729	482403	1.08	YES	bb	106.112	6.1	106	67	1.431
50 PCB 170L	33.42	0.853	466493	430770	1.08	YES	bb	108.676	8.7	109	67	1.283
51 PCB 189L	36.84	0.940	837786	772828	1.08	YES	bb	106.715	6.7	107	67	2.302
52 PCB 202L	29.25	0.746	487233	538995	0.90	YES	bb	103.340	3.3	103	67	1.467
53 PCB 205L	39.71	1.013	569931	611958	0.93	YES	bb	110.321	10.3	110	67	1.689
54 PCB 208L	36.29	0.926	371053	472157	0.79	YES	bb	105.777	5.8	106	67	1.205
55 PCB 206L	41.71	1.064	261460	331473	0.79	YES	bb	111.582	11.6	112	67	0.848
56 PCB 209L	43.54	1.111	312372	264250	1.18	YES	bb	113.790	13.8	114	67	0.824
57 PCB 28L	14.39	0.938	963488	928338	1.04	YES	db	96.663	-3.3	97	64	1.971
58 PCB 111L	21.83	1.105	804736	505204	1.59	YES	bb	105.906	5.9	106	65	1.422
59 PCB 178L	26.98	1.015	322634	305620	1.06	YES	bb	103.825	3.8	104	66	0.761
60 PCB 31L	14.24	0.928	892530	860310	1.04	YES	bd	94.421	-5.6	94	64	1.826
61 PCB 95L	17.74	0.897	532984	330791	1.61	YES	bb	99.126	-0.9	99	65	0.938
62 PCB 153L	25.41	0.956	568039	436716	1.30	YES	bb	99.335	-0.7	99	66	1.217
63 PCB 9L	11.18	0.000	1045015	647648	1.61	YES	bb	90.247	-9.8	90	0	16926...
64 PCB 52L	15.35	0.000	420594	539123	0.78	YES	bb	97.377	-2.6	97	0	9597....
65 PCB 101L	19.77	0.000	570117	350848	1.63	YES	bb	103.688	3.7	104	0	9209....
66 PCB 138L	26.57	0.000	470091	355523	1.32	YES	bb	102.274	2.3	102	0	8256....
67 PCB 194L	39.18	0.000	337621	361994	0.93	YES	bb	107.120	7.1	107	0	6996....
68 Total MoCB F1								4155....			29	
69 Total MoCB labeled ...								211.091			63	
70 Total DiCB F1								2065....			31	
71 Total DiCB labeled F1								101.578			63	
72 Total DiCB F2								2101....			32	
73 Total DiCB labeled F2								201.048			63	
74 Total TriCB F2								2116....			33	
75 Total TriCB labeled F2								97.948			63	
76 Total TriCB F3								2038....			34	
77 Total TriCB labeled F3								295.162			64	
78 Total TeCB F2								2074....			35	
79 Total TeCB labeled F2								101.723			64	
80 Total TeCB F3											35	
81 Total TeCB labeled F3								97.377			64	
82 Total TeCB F4								4016....			36	
83 Total TeCB labeled F4								213.455			64	
84 Total PeCB F3								2038....			38	
85 Total PeCB labeled F3								106.044			65	
86 Total PeCB F4											39	
87 Total PeCB labeled F4								308.720			65	
88 Total PeCB F5								10331...			39	
89 Total PeCB labeled F5								533.380			65	
90 Total HxCB F4								2082....			44	
91 Total HxCB labeled F4								108.043			66	
92 Total HxCB F5											45	
93 Total HxCB labeled F5								201.609			66	
94 Total HxCB F6								8193....			45	
95 Total HxCB labeled F6								449.524			66	
96 Total HpCB F5								2118....			48	

AutoSpec Ultima - M2

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:** 22:03:55

**Instrument:** Autospec-UltimaE

**Description:** CS5\_PCB 150417CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio	Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
97	Total HpCB labeled ...									210.159			67	
98	Total HpCB F6									4191....			49	
99	Total HpCB labeled ...									214.788			67	
100	Total HpCB F7									2015....			51	
101	Total HpCB labeled ...									106.715			67	
102	Total OcCB F6									2146....			52	
103	Total OcCB labeled ...									103.340			67	
104	Total OcCB F7									2018....			53	
105	Total OcCB labeled ...									217.441			67	
106	Total NoCB F7									4179....			54	
107	Total NoCB labeled ...									217.359			67	
108	Total DeCB F7									2030....			56	
109	Total DeCB labeled ...									113.790			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

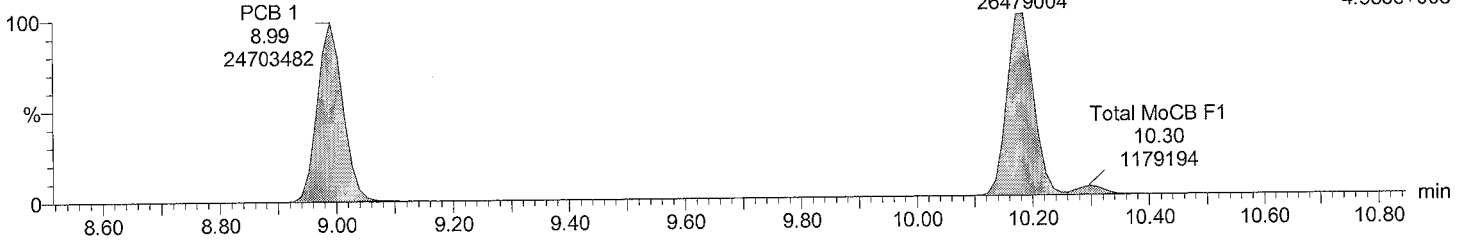
Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time  
Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS5\_PCB 150417CXU  
Vial: 6  
Date: 11-FEB-2016  
Time: 22:03:55  
Instrument: Autospec-UltimaE

**Total MoCB F1**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

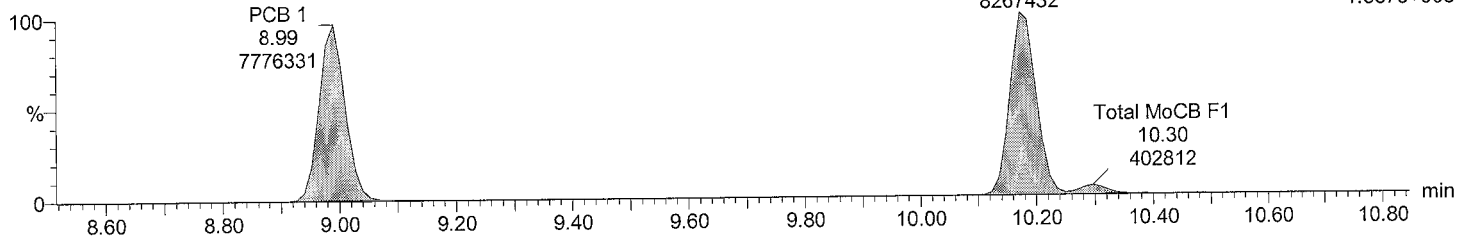
PCB 3 10.19 26479004  
F1:SIR of 10 channels,EI+  
188.0393  
4.985e+008



**Total MoCB F1**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

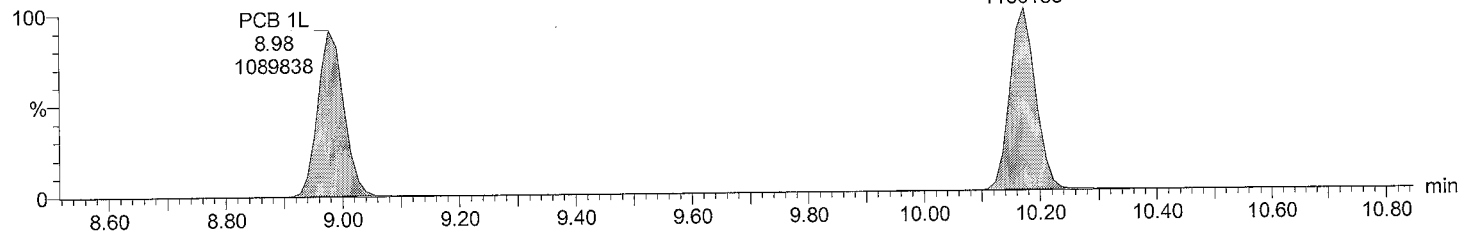
PCB 3 10.17 8267432  
F1:SIR of 10 channels,EI+  
190.0363  
1.587e+008



**Total MoCB labeled F1**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

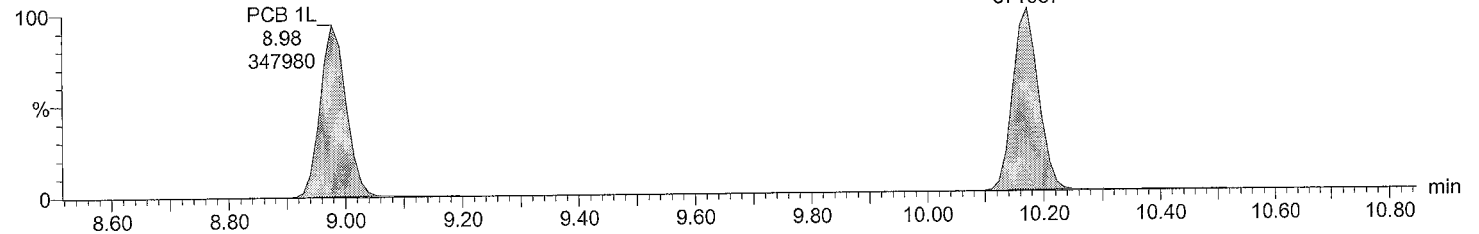
PCB 3L 10.17 1186183  
F1:SIR of 10 channels,EI+  
200.0795  
2.348e+007



**Total MoCB labeled F1**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 3L 10.17 371667  
F1:SIR of 10 channels,EI+  
202.076  
7.330e+006



Quantify Sample Report MassLynx 4.0 SP1

Acquired Date

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Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

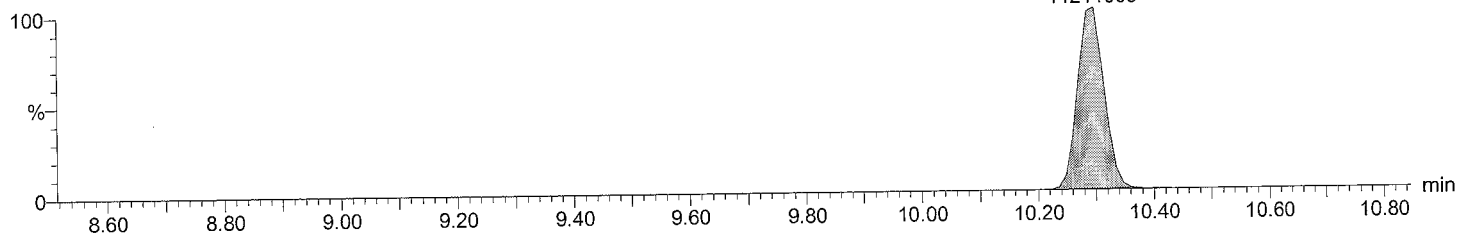
Time: 22:03:55

Instrument: Autospec-UltimaE

Total DiCB F1

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

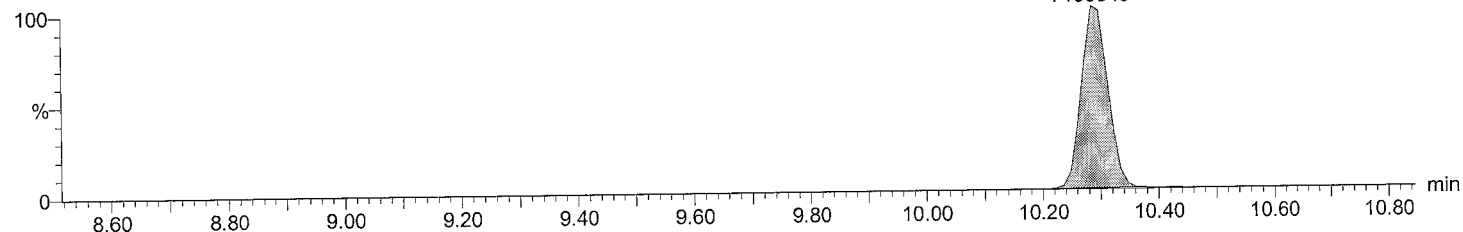
PCB 4  
10.30  
11211009  
F1:SIR of 10 channels,EI+  
222.0003  
2.146e+008



Total DiCB F1

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

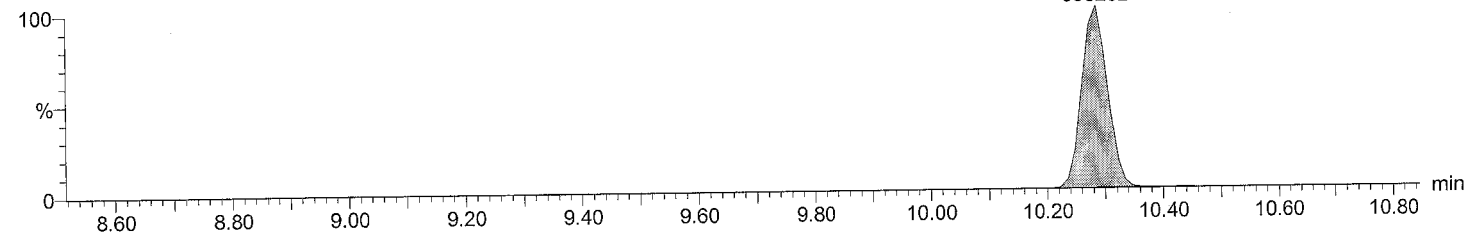
PCB 4  
10.28  
7169348  
F1:SIR of 10 channels,EI+  
223.9974  
1.372e+008



Total DiCB labeled F1

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

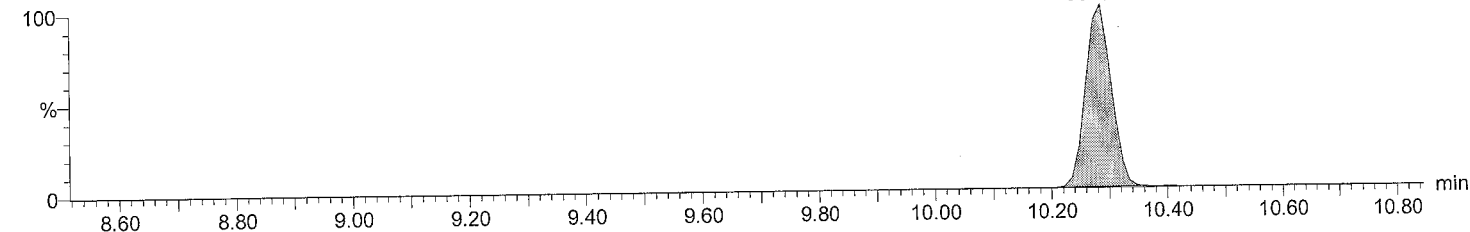
PCB 4L  
10.28  
568292  
F1:SIR of 10 channels,EI+  
234.0406  
1.121e+007



Total DiCB labeled F1

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 4L  
10.28  
364687  
F1:SIR of 10 channels,EI+  
236.0376  
7.181e+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: CS5\_PCB 150417CXU

Vial: 6

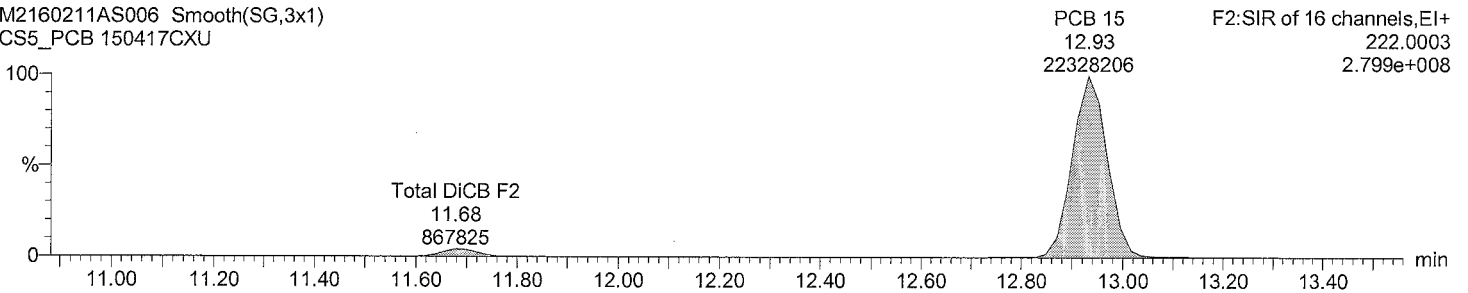
Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

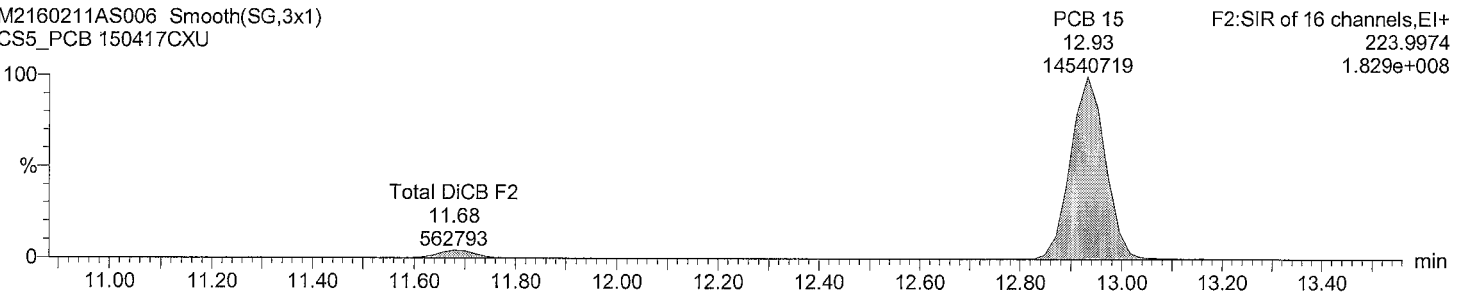
Total DiCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



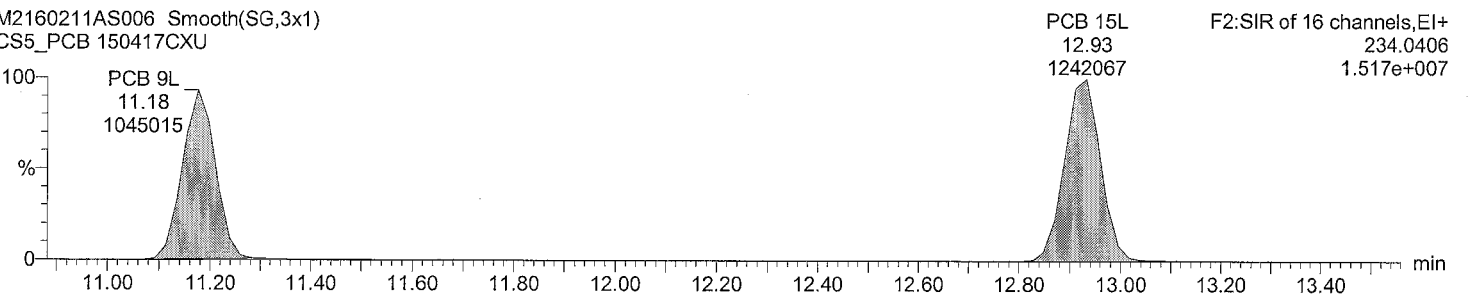
Total DiCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



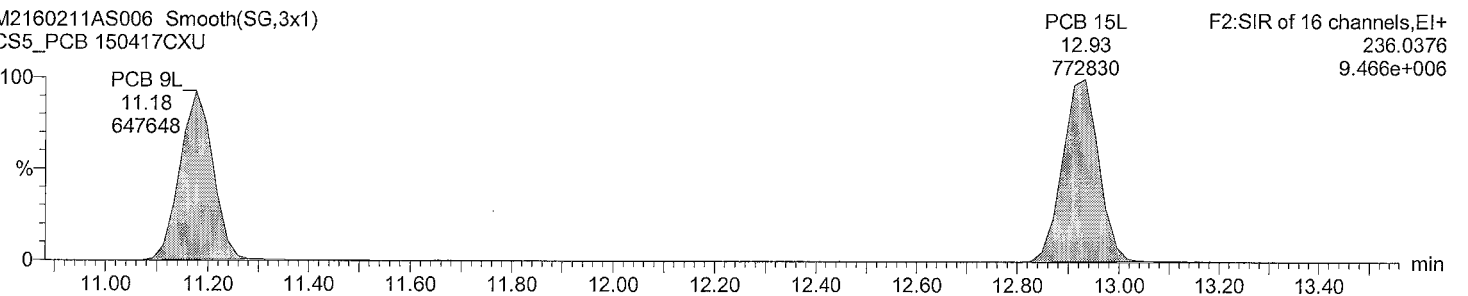
Total DiCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



Total DiCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



Acquired Date

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Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

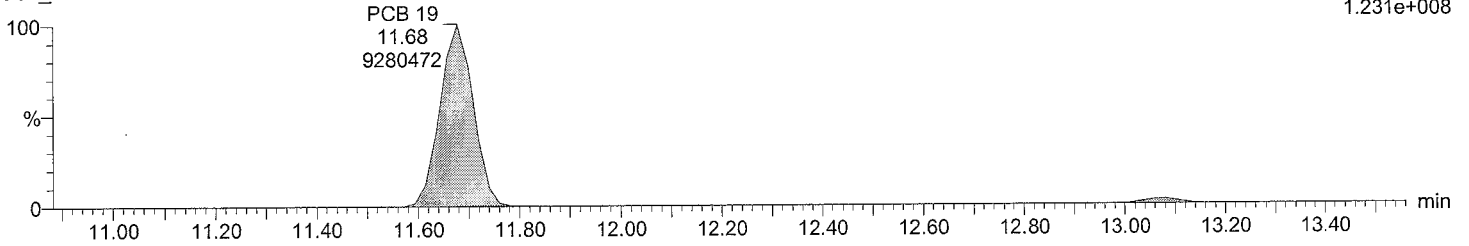
Time: 22:03:55

Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

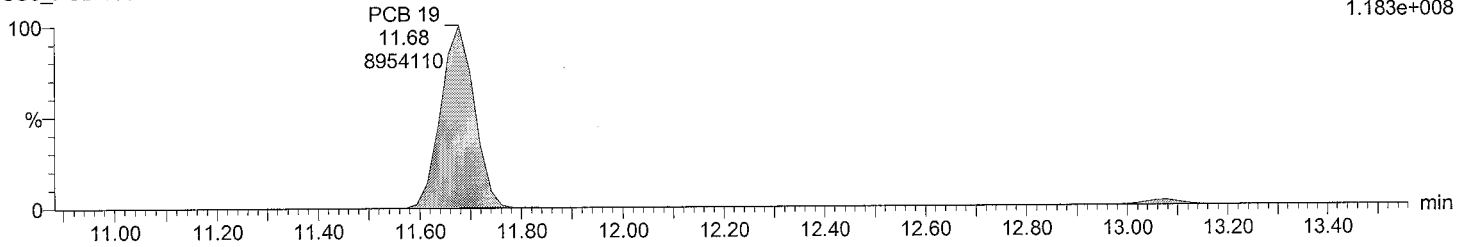
F2:SIR of 16 channels,EI+  
255.9614  
1.231e+008



Total TriCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

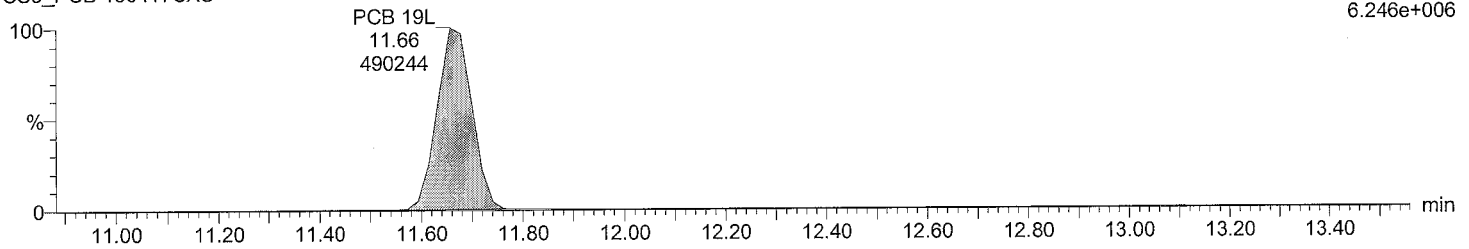
F2:SIR of 16 channels,EI+  
257.9584  
1.183e+008



Total TriCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

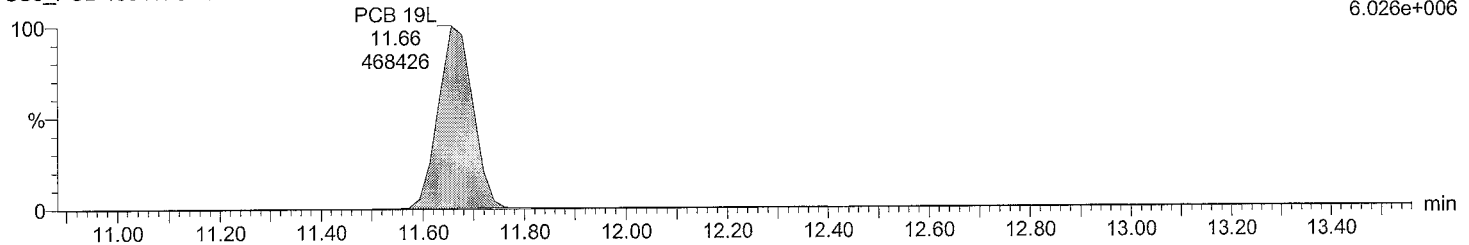
F2:SIR of 16 channels,EI+  
268.0016  
6.246e+006



Total TriCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F2:SIR of 16 channels,EI+  
269.9986  
6.026e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

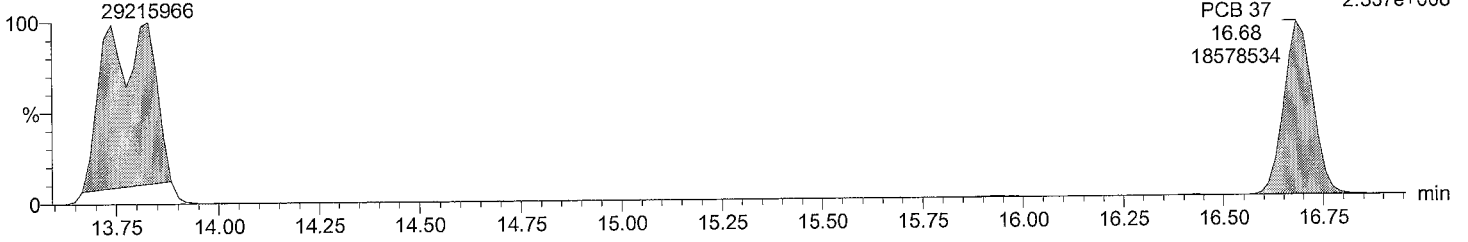
Time: 22:03:55

Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

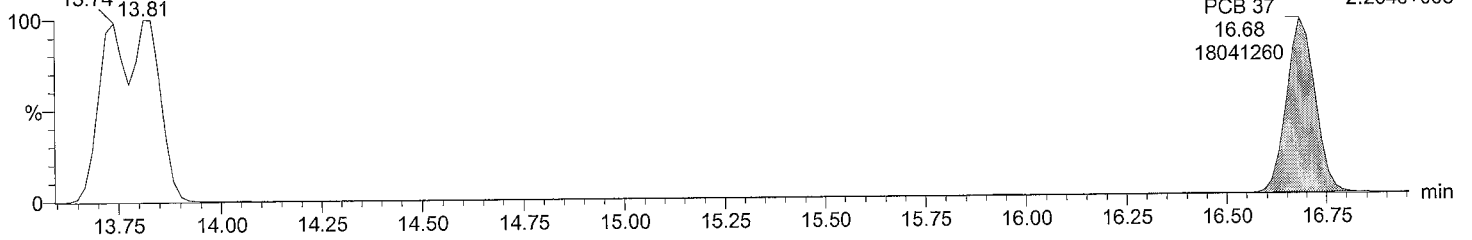
F3:SIR of 14 channels,EI+  
255.9614  
2.337e+008



Total TriCB F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

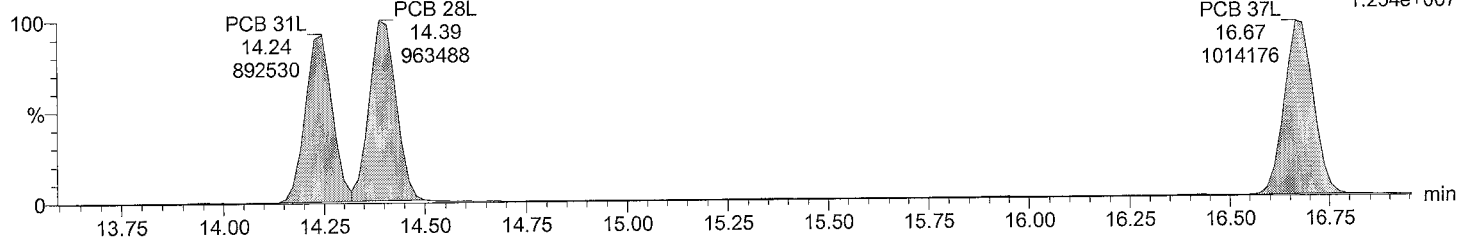
F3:SIR of 14 channels,EI+  
257.9584  
2.264e+008



Total TriCB labeled F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

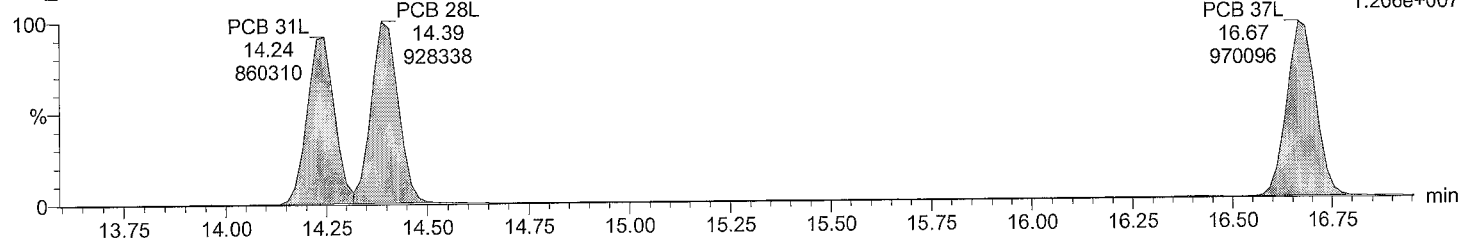
F3:SIR of 14 channels,EI+  
268.0016  
1.254e+007



Total TriCB labeled F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F3:SIR of 14 channels,EI+  
269.9986  
1.206e+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

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Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

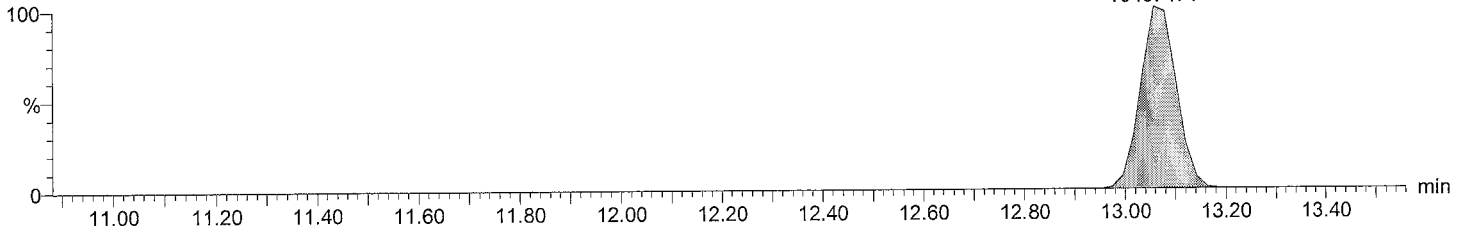
Time: 22:03:55

Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

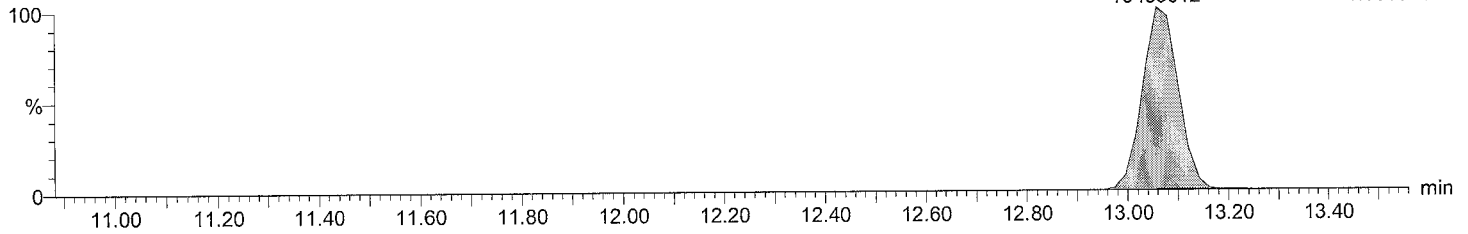
PCB 54 F2:SIR of 16 channels,EI+  
13.06 289.9224  
10437471 1.265e+008



Total TeCB F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

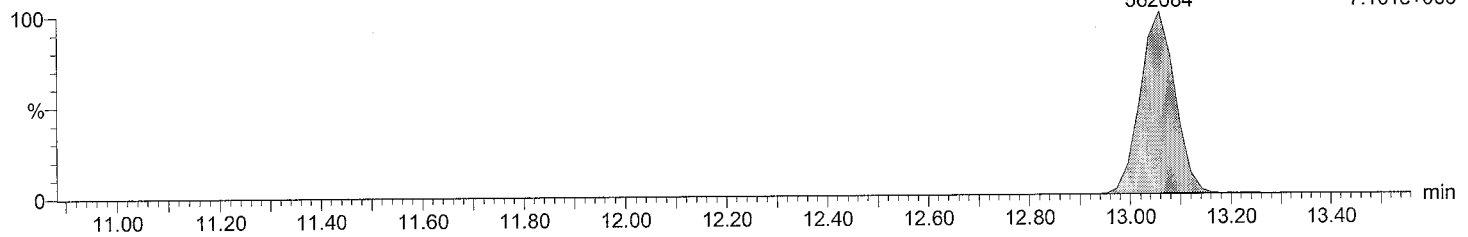
PCB 54 F2:SIR of 16 channels,EI+  
13.06 291.9194  
13485612 1.656e+008



Total TeCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

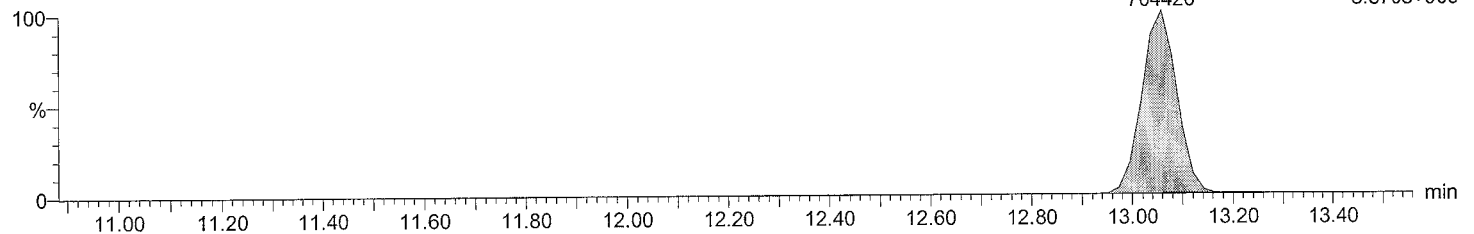
PCB 54L F2:SIR of 16 channels,EI+  
13.06 301.9626  
562084 7.101e+006



Total TeCB labeled F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 54L F2:SIR of 16 channels,EI+  
13.06 303.9597  
704420 8.870e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

Time: 22:03:55

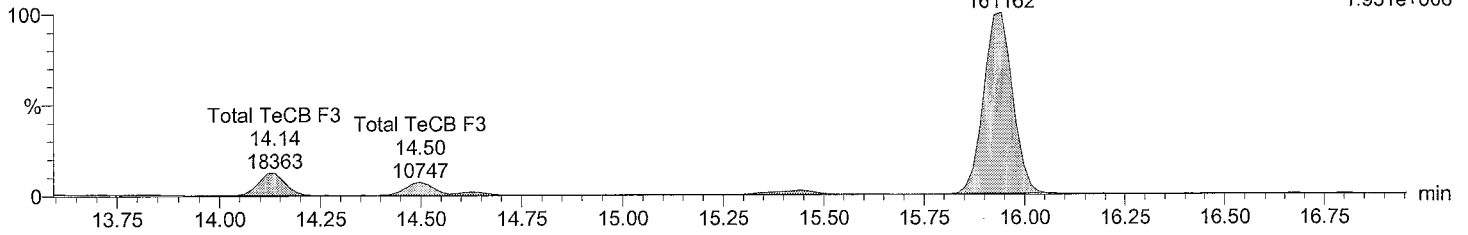
Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

Total TeCB F3  
15.94  
161162

F3:SIR of 14 channels,EI+  
289.9224  
1.951e+006

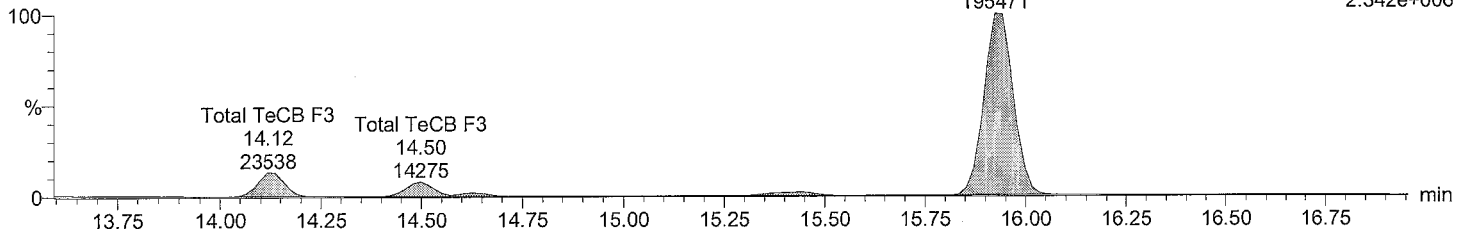


Total TeCB F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

Total TeCB F3  
15.93  
195471

F3:SIR of 14 channels,EI+  
291.9194  
2.342e+006

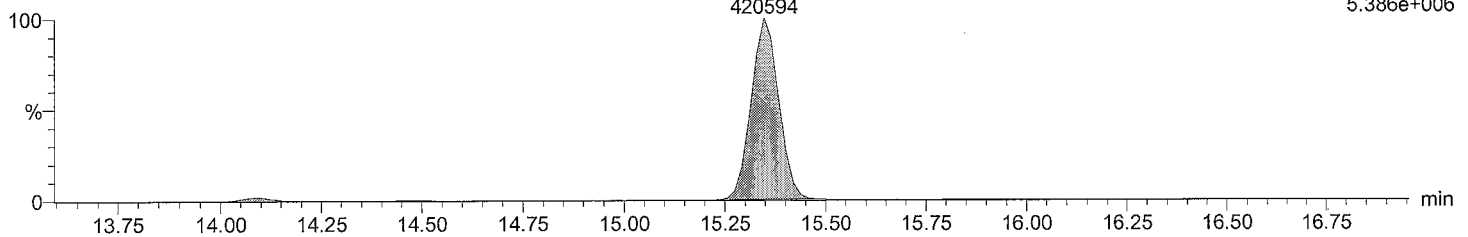


Total TeCB labeled F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 52L  
15.35  
420594

F3:SIR of 14 channels,EI+  
301.9626  
5.386e+006

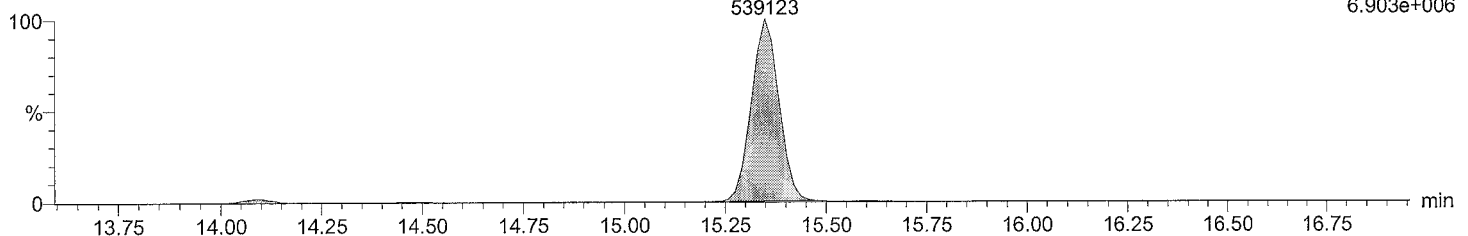


Total TeCB labeled F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 52L  
15.35  
539123

F3:SIR of 14 channels,EI+  
303.9597  
6.903e+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: CS5\_PCB 150417CXU

Vial: 6

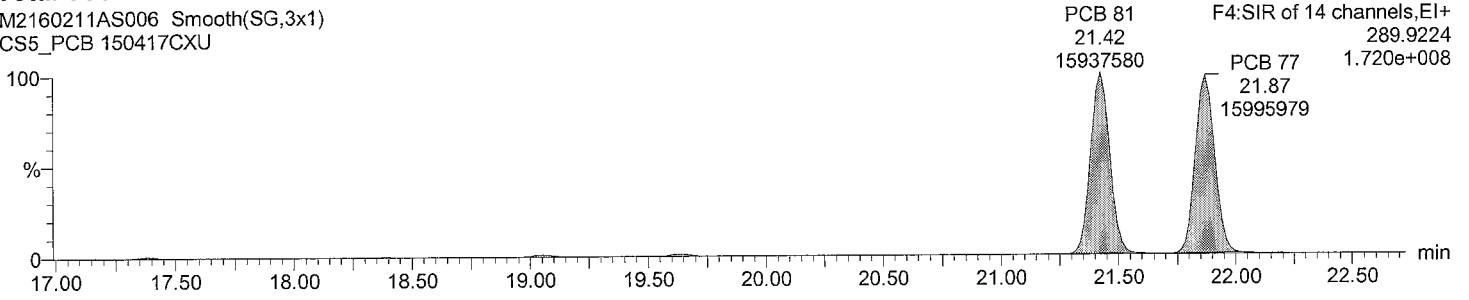
Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

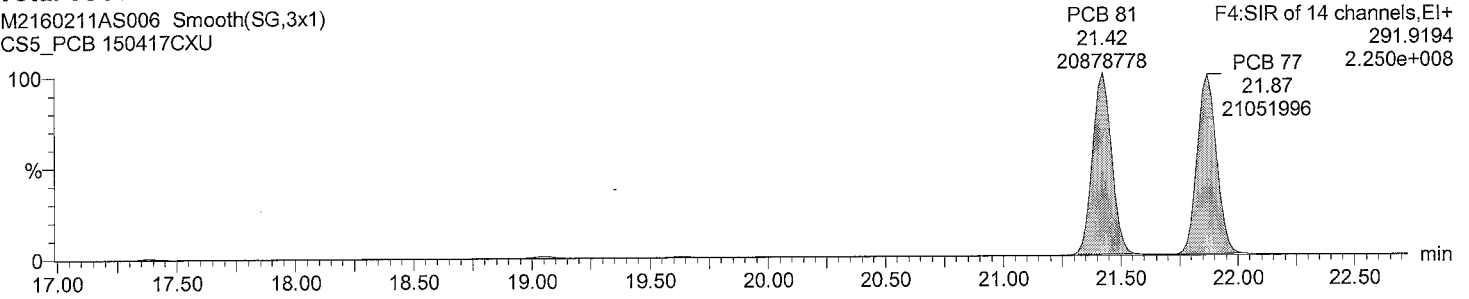
Total TeCB F4

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



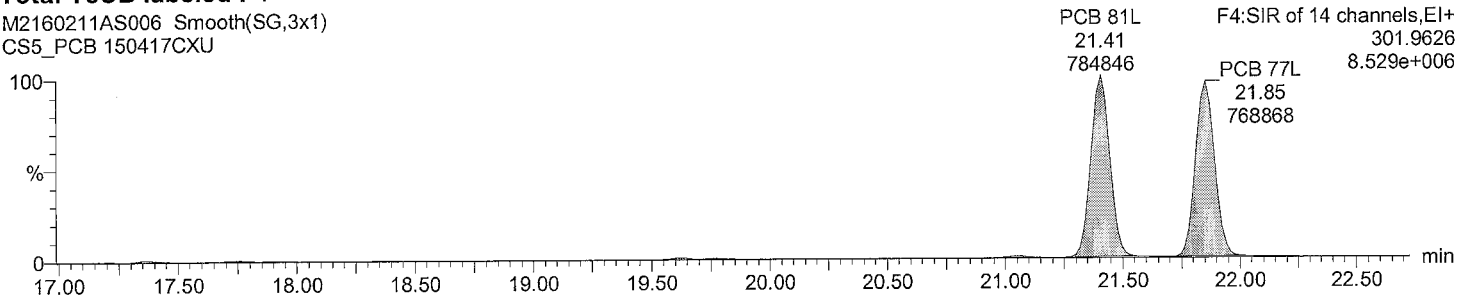
Total TeCB F4

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



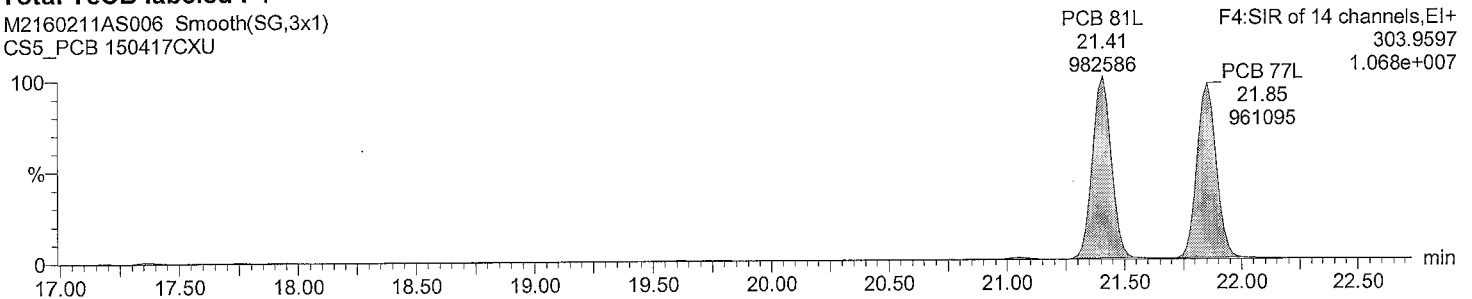
Total TeCB labeled F4

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



Total TeCB labeled F4

M2160211AS006 Smooth(SG,3x1)  
CS5\_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: CS5\_PCB 150417CXU**

**Vial: 6**

**Date: 11-FEB-2016**

**Time: 22:03:55**

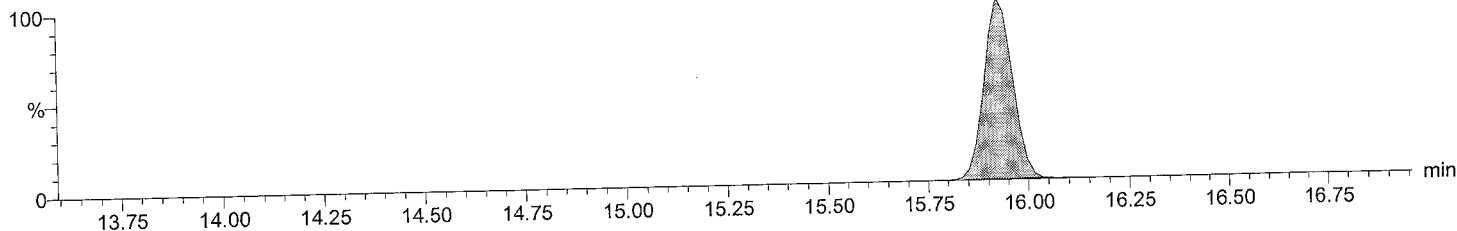
**Instrument: Autospec-UltimaE**

**Total PeCB F3**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 104  
15.93  
15317222

F3:SIR of 14 channels, EI+  
325.8805  
1.896e+008

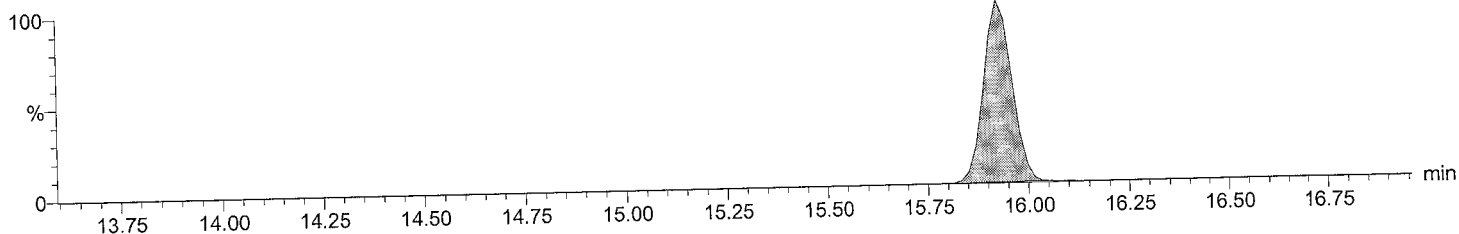


**Total PeCB F3**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 104  
15.93  
9857681

F3:SIR of 14 channels, EI+  
327.8775  
1.225e+008

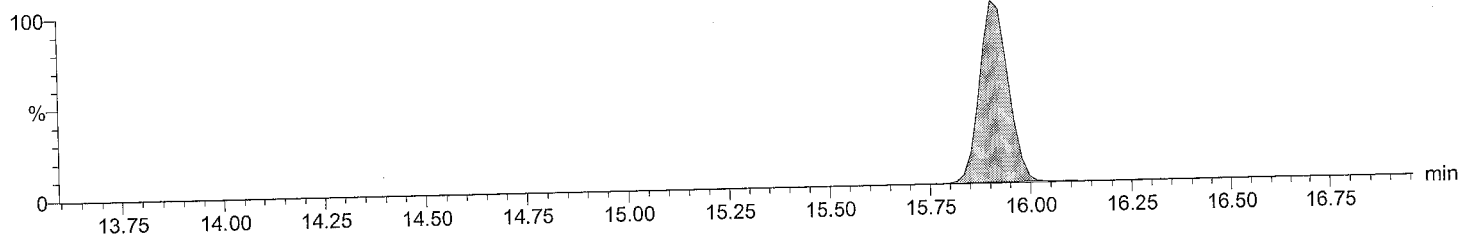


**Total PeCB labeled F3**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 104L  
15.91  
692714

F3:SIR of 14 channels, EI+  
337.9207  
8.478e+006

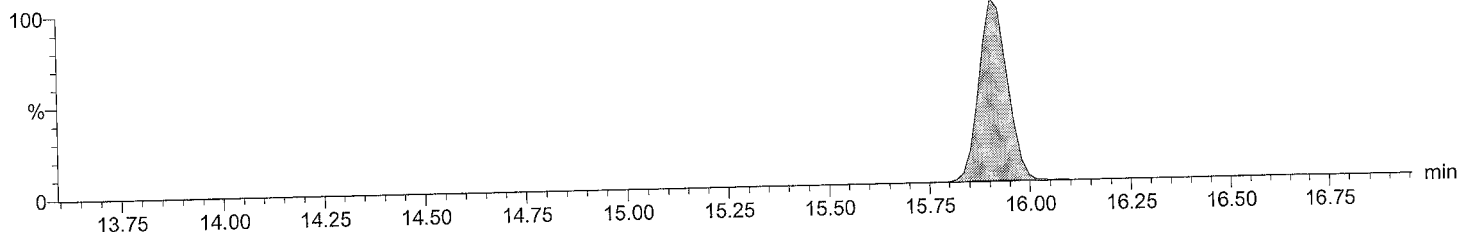


**Total PeCB labeled F3**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 104L  
15.91  
435925

F3:SIR of 14 channels, EI+  
339.9178  
5.397e+006



Acquired Date

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Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS006 Smooth(SG,3x1)

CS5\_PCB 150417CXU

Total PeCB F4

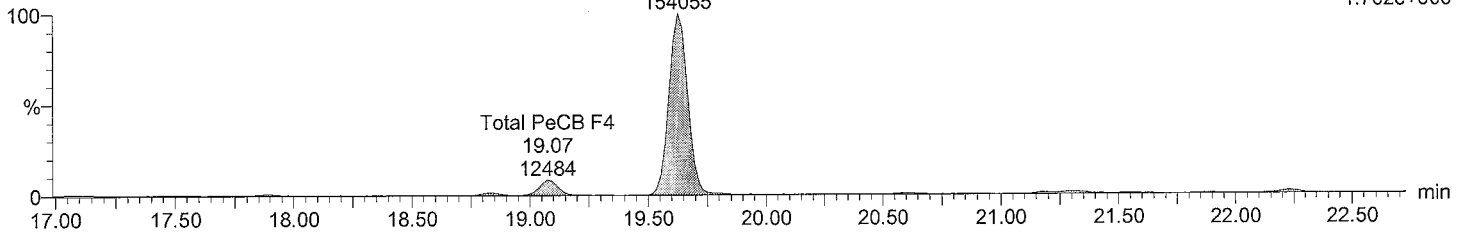
19.63

154055

F4:SIR of 14 channels,EI+

325.8805

1.702e+006



Total PeCB F4

M2160211AS006 Smooth(SG,3x1)

CS5\_PCB 150417CXU

Total PeCB F4

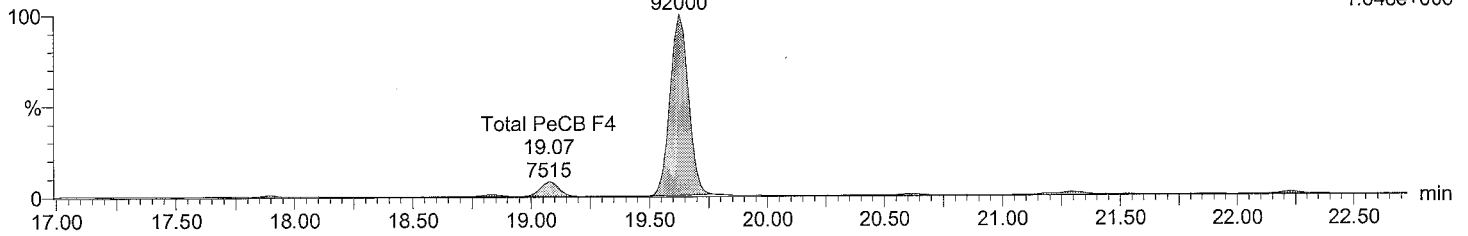
19.63

92000

F4:SIR of 14 channels,EI+

327.8775

1.048e+006



Total PeCB labeled F4

M2160211AS006 Smooth(SG,3x1)

CS5\_PCB 150417CXU

PCB 95L

17.74

532984

PCB 101L

19.77

570117

PCB 111L

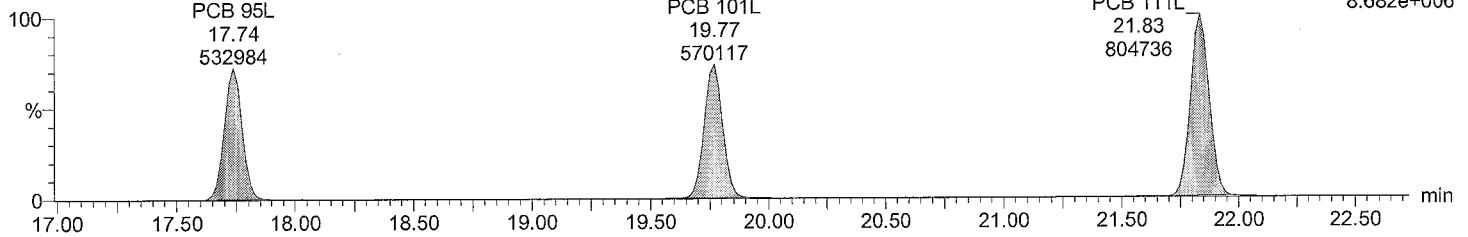
21.83

804736

F4:SIR of 14 channels,EI+

337.9207

8.682e+006



Total PeCB labeled F4

M2160211AS006 Smooth(SG,3x1)

CS5\_PCB 150417CXU

PCB 95L

17.74

330791

PCB 101L

19.77

350848

PCB 111L

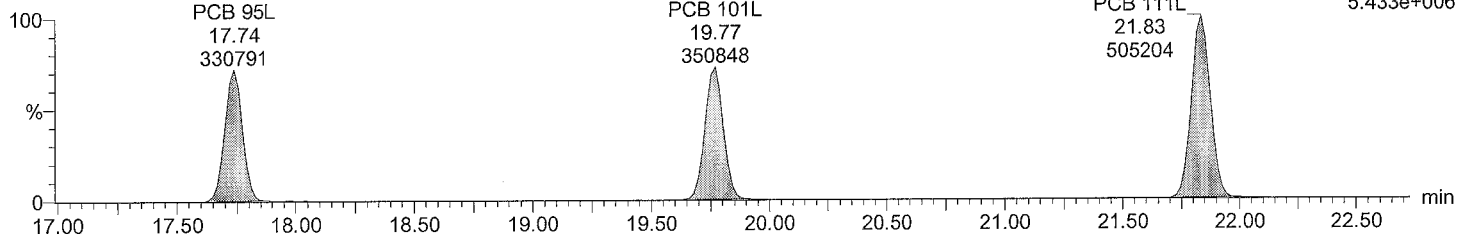
21.83

505204

F4:SIR of 14 channels,EI+

339.9178

5.433e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

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Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

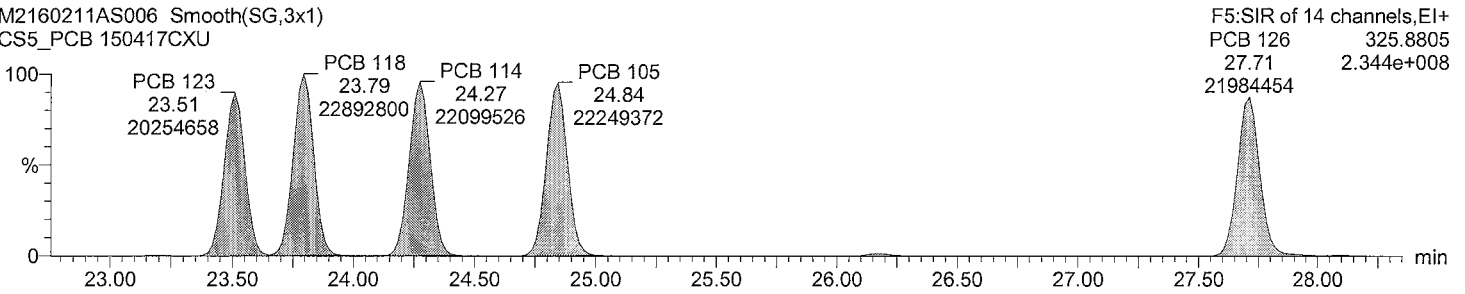
Time: 22:03:55

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS006 Smooth(SG,3x1)

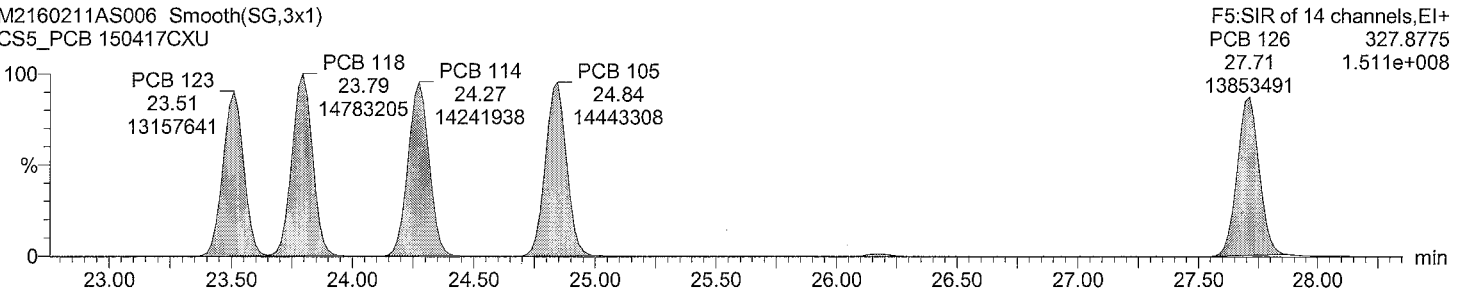
CS5\_PCB 150417CXU



Total PeCB F5

M2160211AS006 Smooth(SG,3x1)

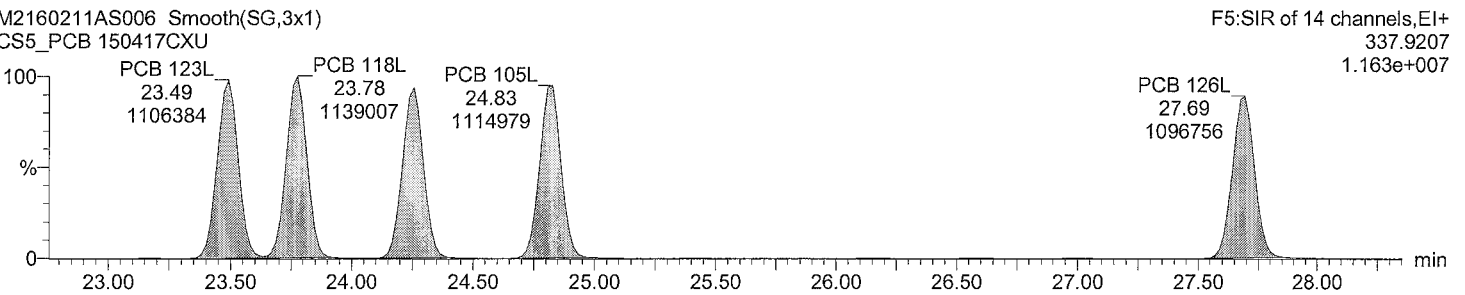
CS5\_PCB 150417CXU



Total PeCB labeled F5

M2160211AS006 Smooth(SG,3x1)

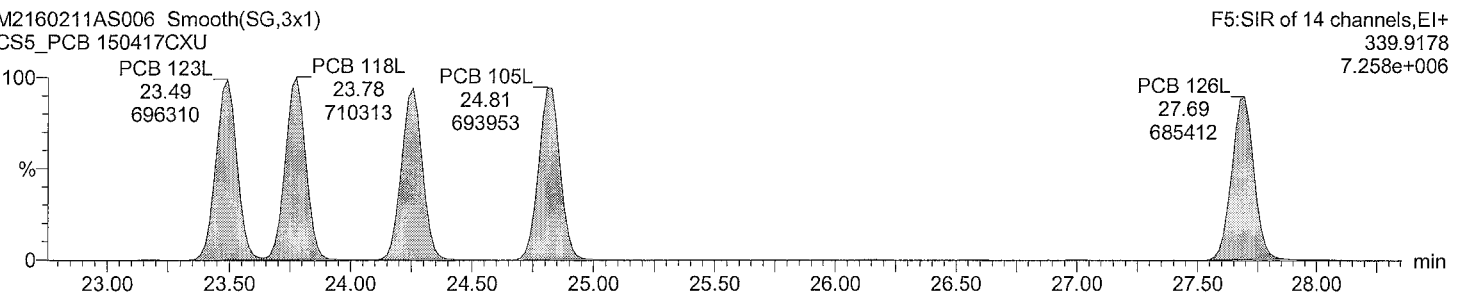
CS5\_PCB 150417CXU



Total PeCB labeled F5

M2160211AS006 Smooth(SG,3x1)

CS5\_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

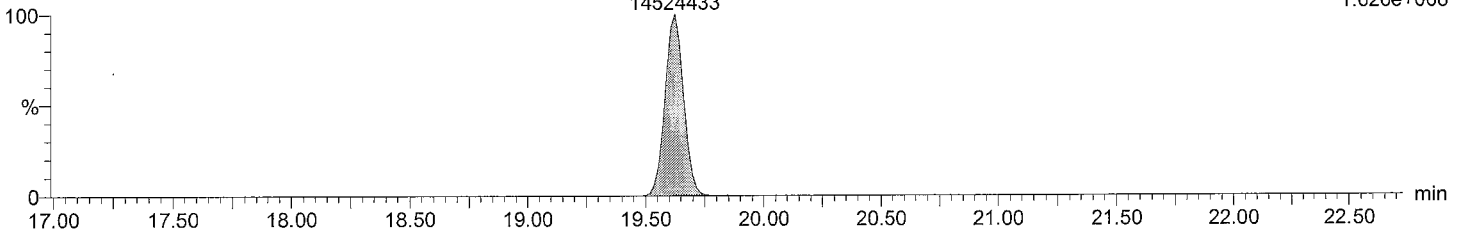
Description: CS5\_PCB 150417CXU  
Vial: 6  
Date: 11-FEB-2016  
Time: 22:03:55  
Instrument: Autospec-UltimaE

**Total HxCB F4**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 155  
19.63  
14524433

F4:SIR of 14 channels,EI+  
359.8415  
1.626e+008

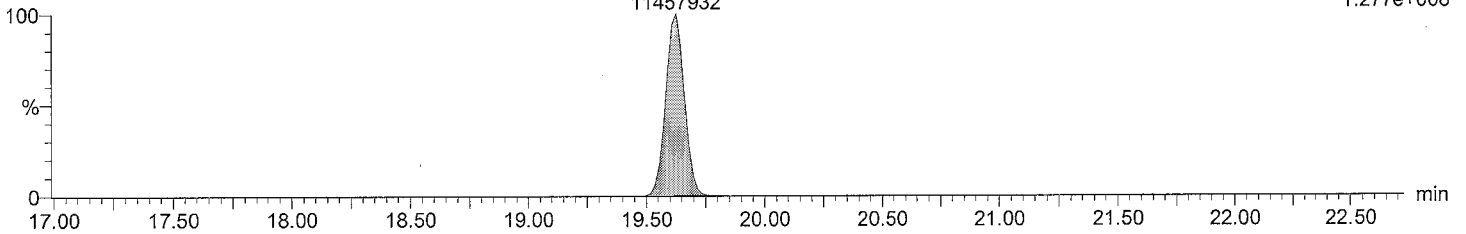


**Total HxCB F4**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 155  
19.63  
11457932

F4:SIR of 14 channels,EI+  
361.8385  
1.277e+008

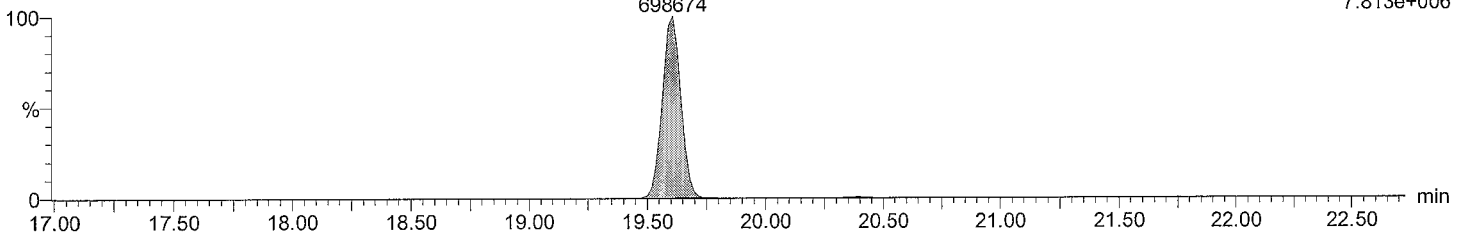


**Total HxCB labeled F4**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 155L  
19.61  
698674

F4:SIR of 14 channels,EI+  
371.8817  
7.813e+006

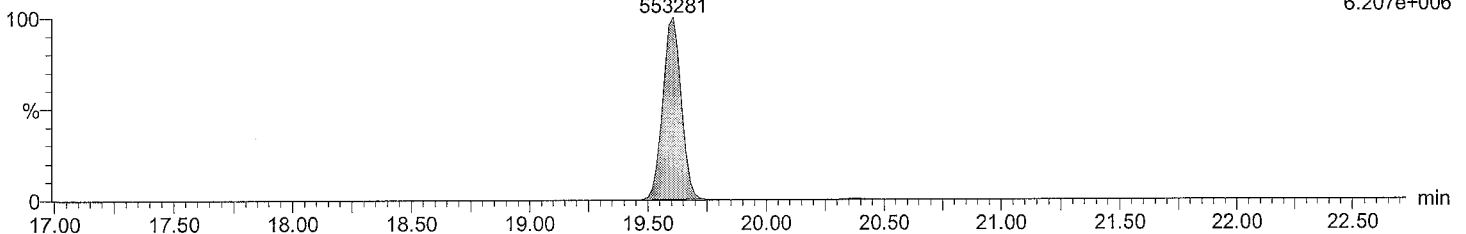


**Total HxCB labeled F4**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 155L  
19.61  
553281

F4:SIR of 14 channels,EI+  
373.8788  
6.207e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_5PT\_1668.qld

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Description: CS5\_PCB 150417CXU

Vial: 6

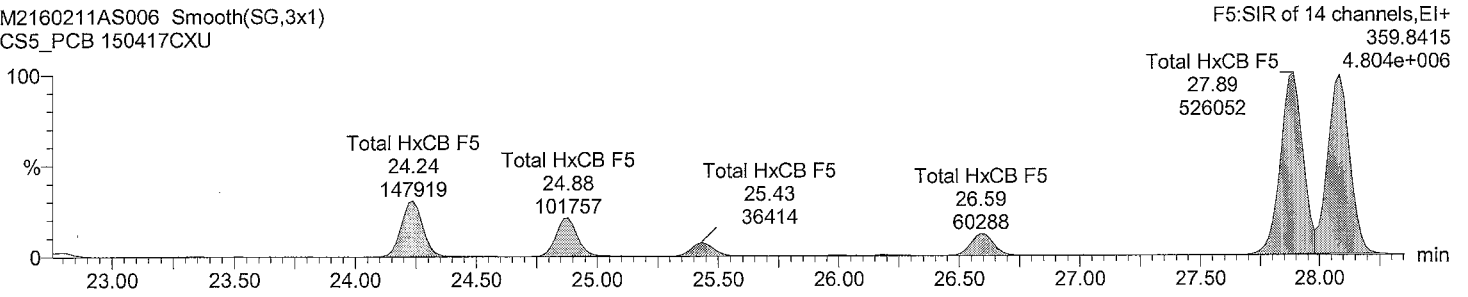
Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

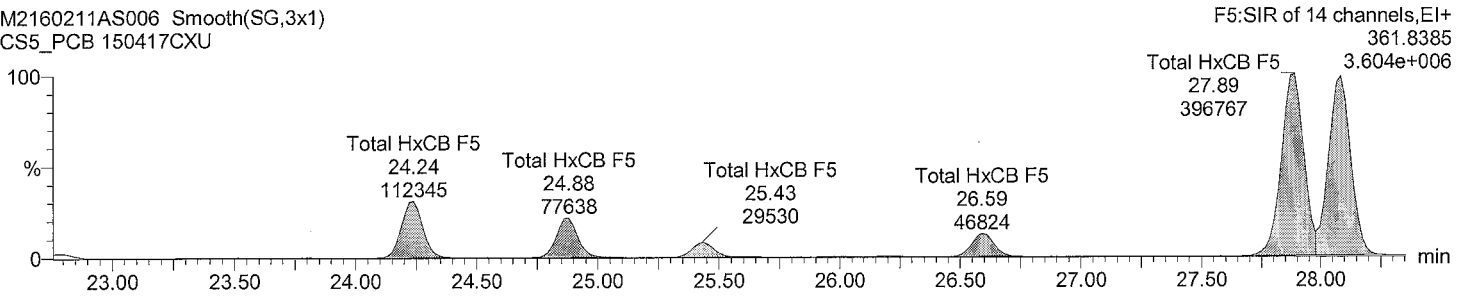
Total HxCB F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



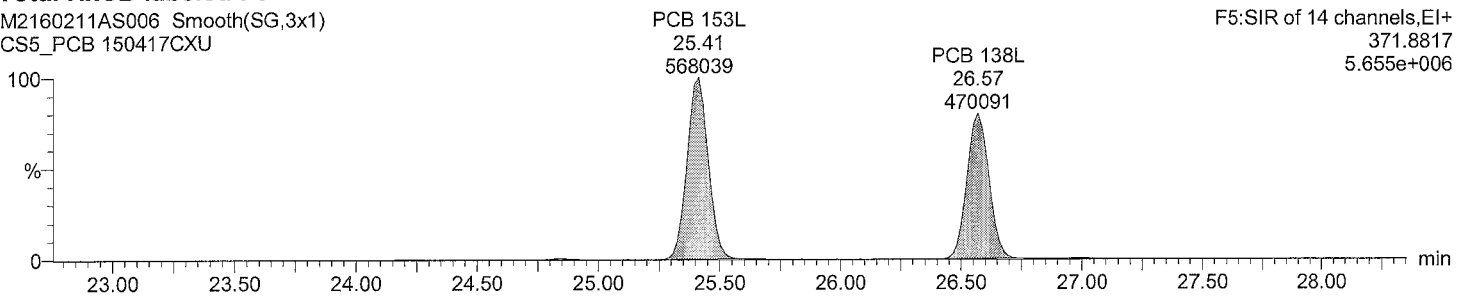
Total HxCB F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



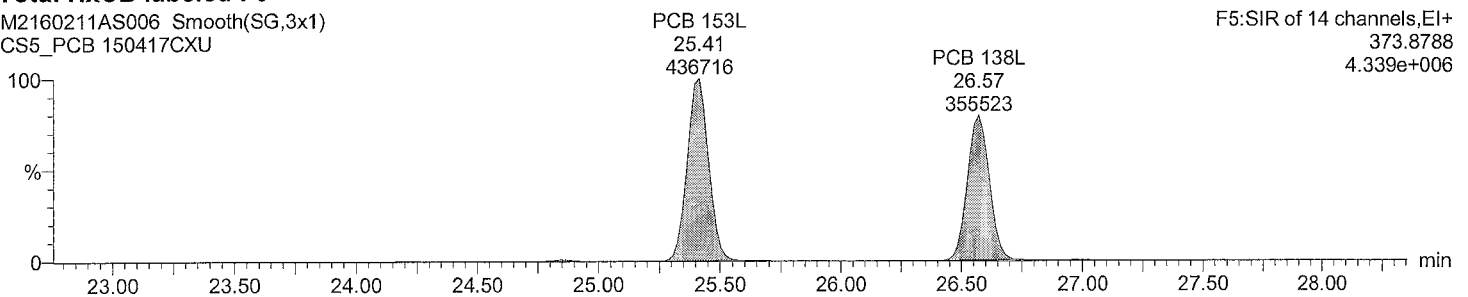
Total HxCB labeled F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



Total HxCB labeled F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU



Acquired Date

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Last Altered: February 16, 2016 8:03:15 AM Eastern Standard Time

Printed: February 16, 2016 8:06:51 AM Eastern Standard Time

Description: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

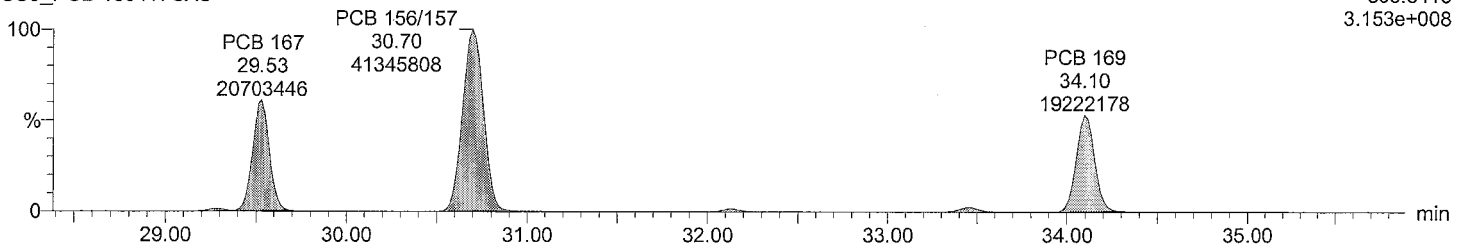
Time: 22:03:55

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

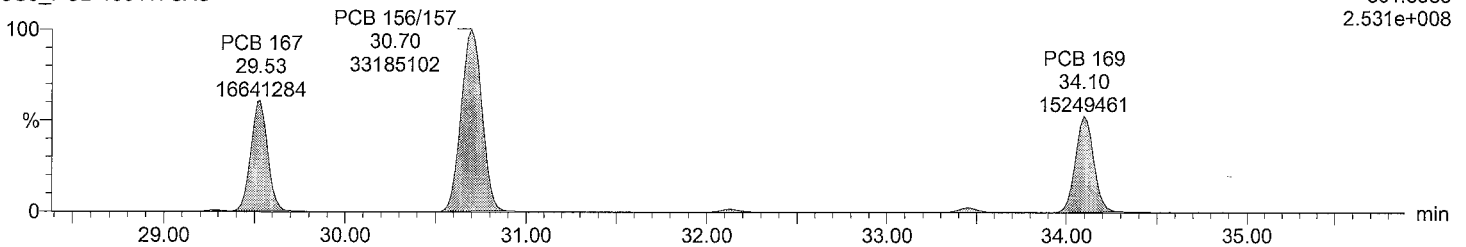
F6:SIR of 14 channels,EI+  
359.8415  
3.153e+008



Total HxCB F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

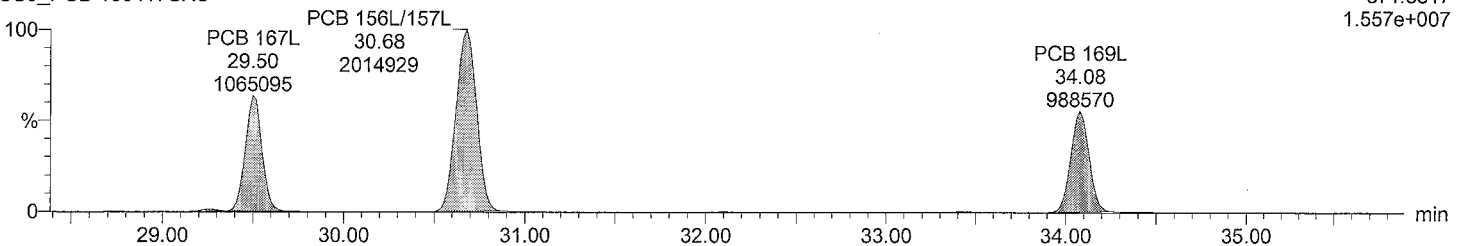
F6:SIR of 14 channels,EI+  
361.8385  
2.531e+008



Total HxCB labeled F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

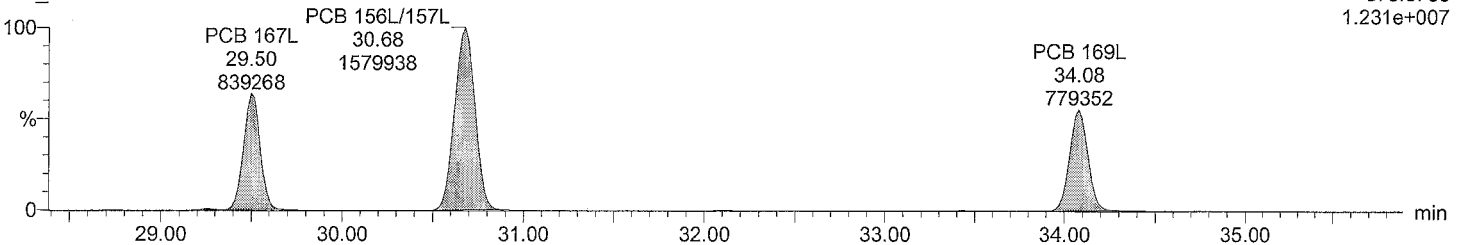
F6:SIR of 14 channels,EI+  
371.8817  
1.557e+007



Total HxCB labeled F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F6:SIR of 14 channels,EI+  
373.8788  
1.231e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

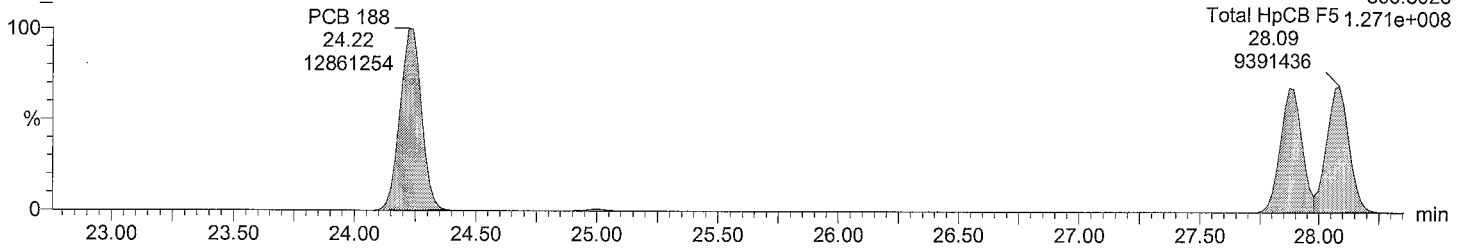
Time: 22:03:55

Instrument: Autospec-UltimaE

Total HpCB F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

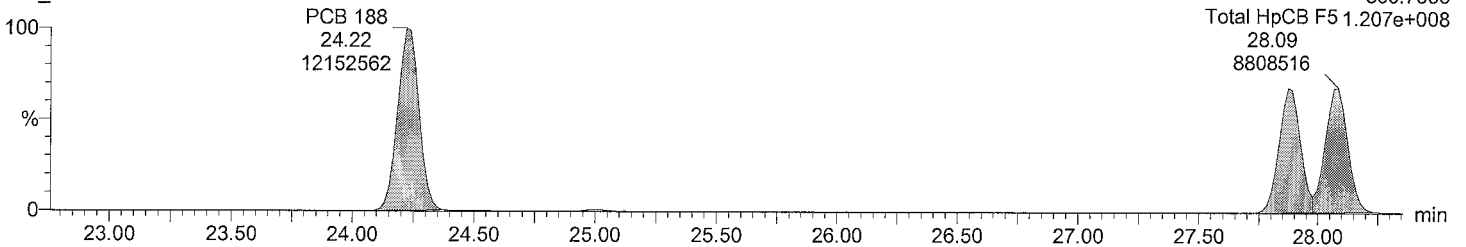
F5:SIR of 14 channels,EI+  
393.8025  
Total HpCB F5 1.271e+008  
28.09  
9391436



Total HpCB F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

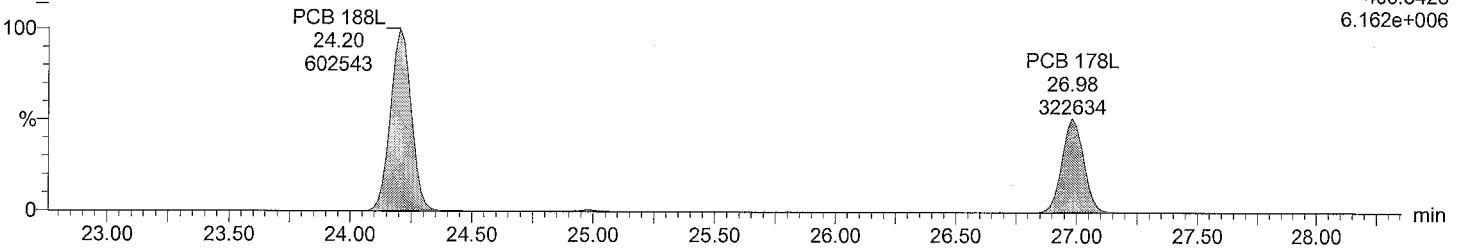
F5:SIR of 14 channels,EI+  
395.7995  
Total HpCB F5 1.207e+008  
28.09  
8808516



Total HpCB labeled F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

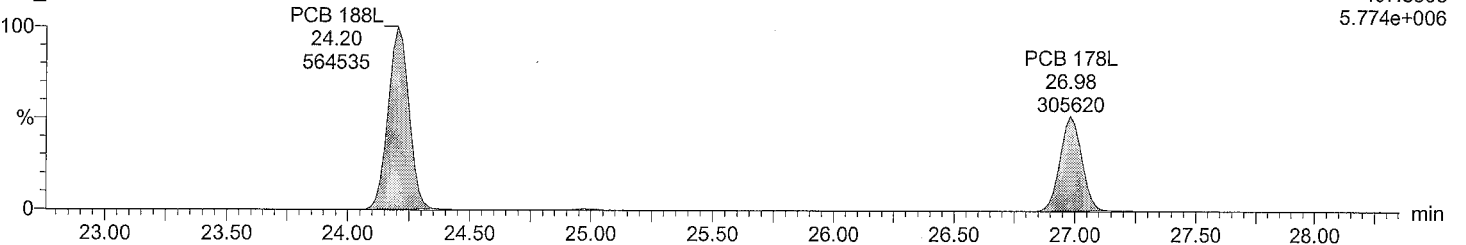
F5:SIR of 14 channels,EI+  
405.8428  
6.162e+006



Total HpCB labeled F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F5:SIR of 14 channels,EI+  
407.8398  
5.774e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

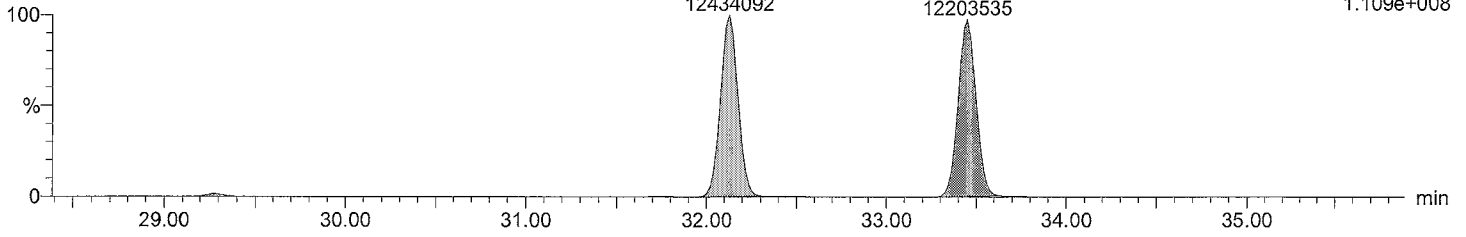
Total HpCB F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 193/180  
32.13  
12434092

PCB 170  
33.45  
12203535

F6:SIR of 14 channels,EI+  
393.8025  
1.109e+008



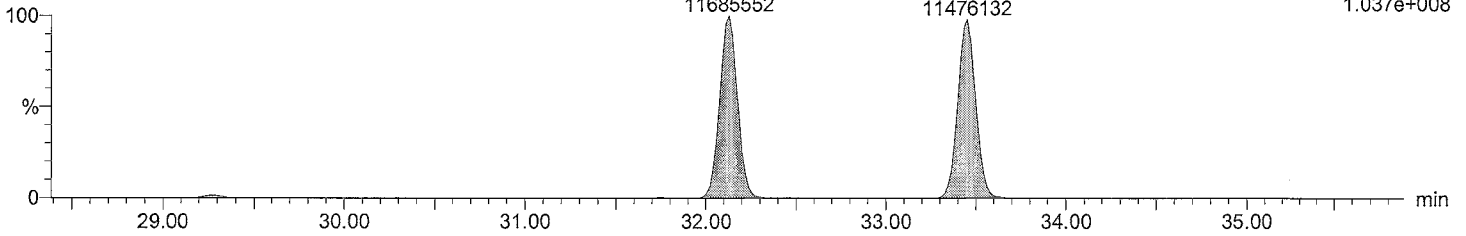
Total HpCB F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 193/180  
32.13  
11685552

PCB 170  
33.45  
11476132

F6:SIR of 14 channels,EI+  
395.7995  
1.037e+008



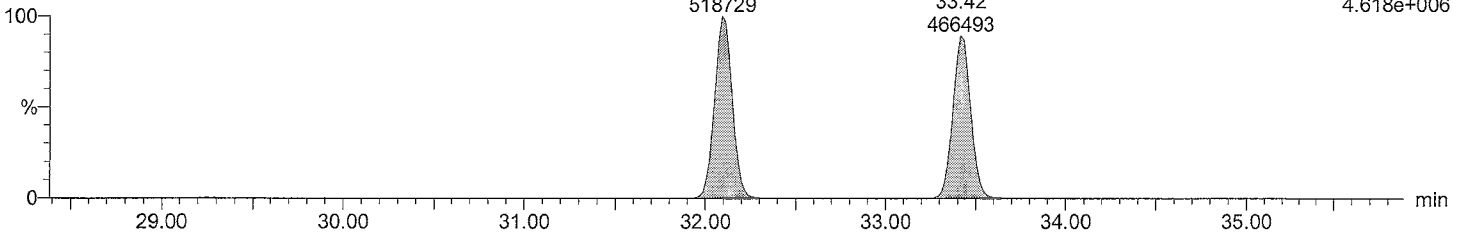
Total HpCB labeled F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 180L  
32.09  
518729

PCB 170L  
33.42  
466493

F6:SIR of 14 channels,EI+  
405.8428  
4.618e+006



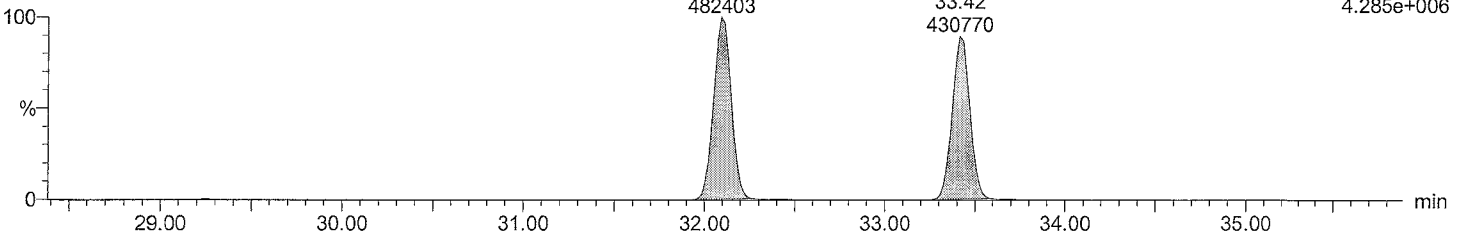
Total HpCB labeled F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 180L  
32.09  
482403

PCB 170L  
33.42  
430770

F6:SIR of 14 channels,EI+  
407.8398  
4.285e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

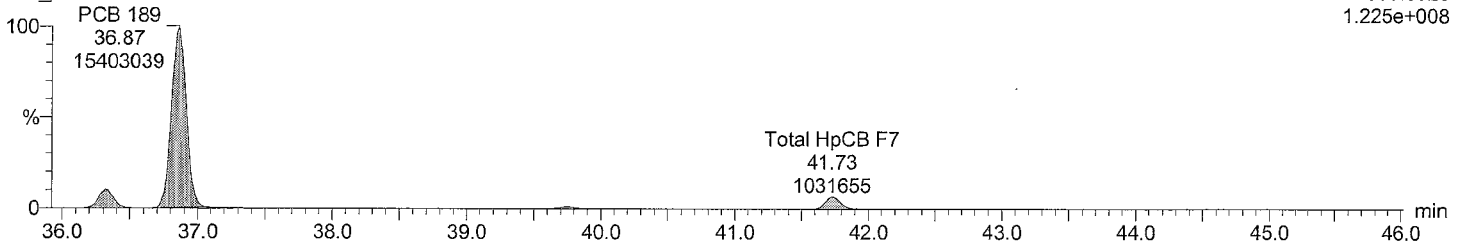
Time: 22:03:55

Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

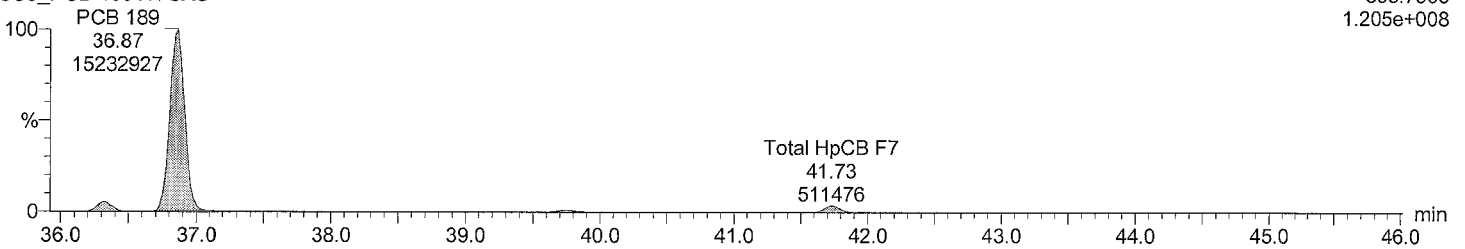
F7:SIR of 18 channels,EI+  
393.8025  
1.225e+008



Total HpCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

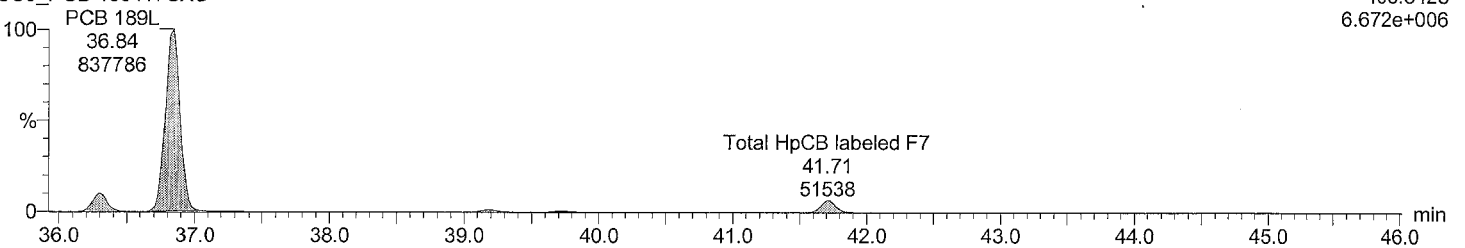
F7:SIR of 18 channels,EI+  
395.7995  
1.205e+008



Total HpCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

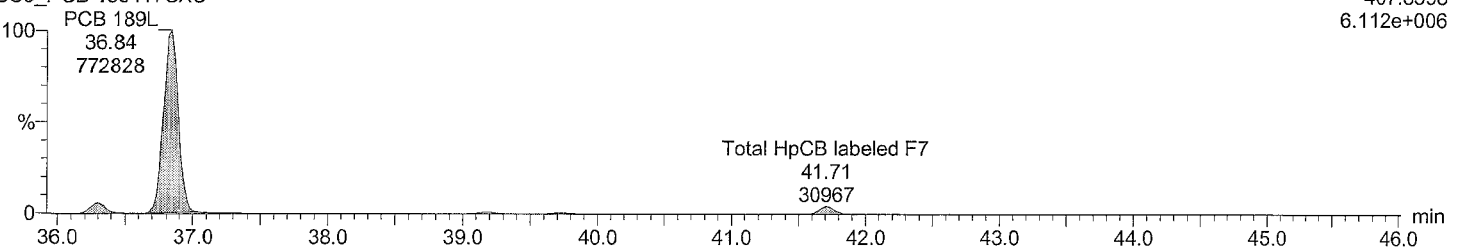
F7:SIR of 18 channels,EI+  
405.8428  
6.672e+006



Total HpCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
407.8398  
6.112e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

Total OcCB F6

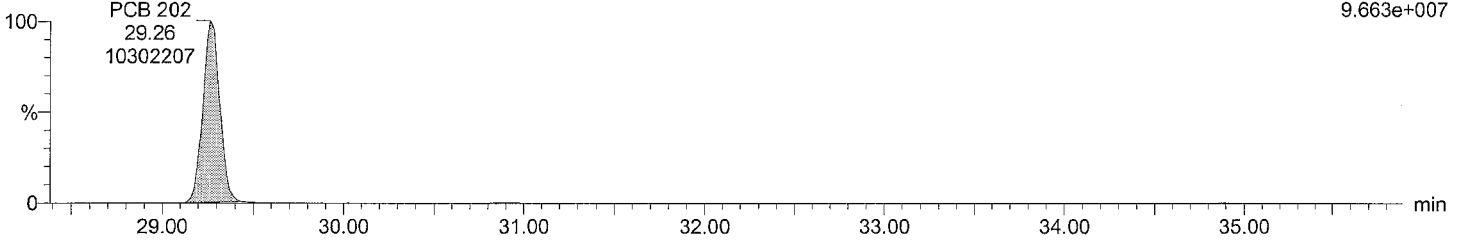
M2160211AS006 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS5\_PCB 150417CXU

427.7635

9.663e+007



Total OcCB F6

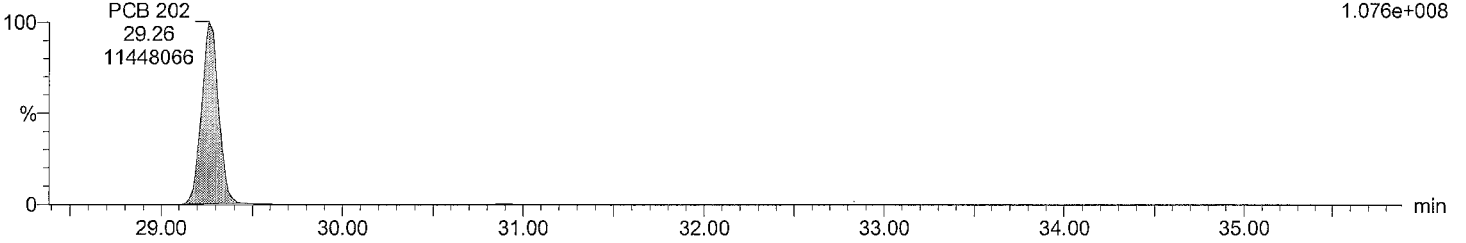
M2160211AS006 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS5\_PCB 150417CXU

429.7606

1.076e+008



Total OcCB labeled F6

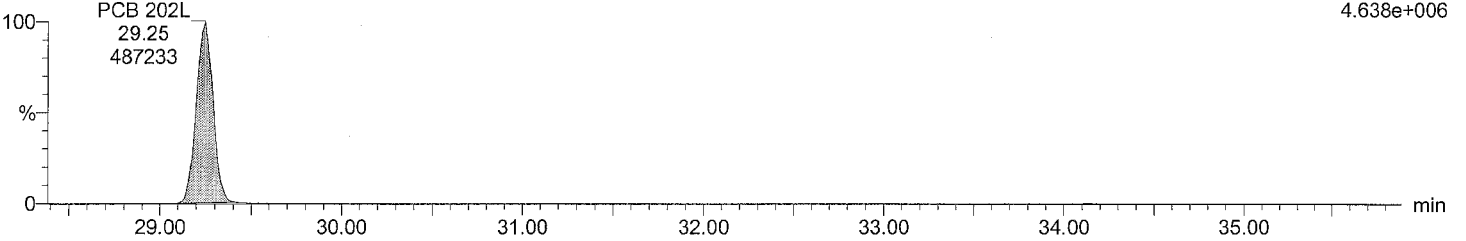
M2160211AS006 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS5\_PCB 150417CXU

439.8038

4.638e+006



Total OcCB labeled F6

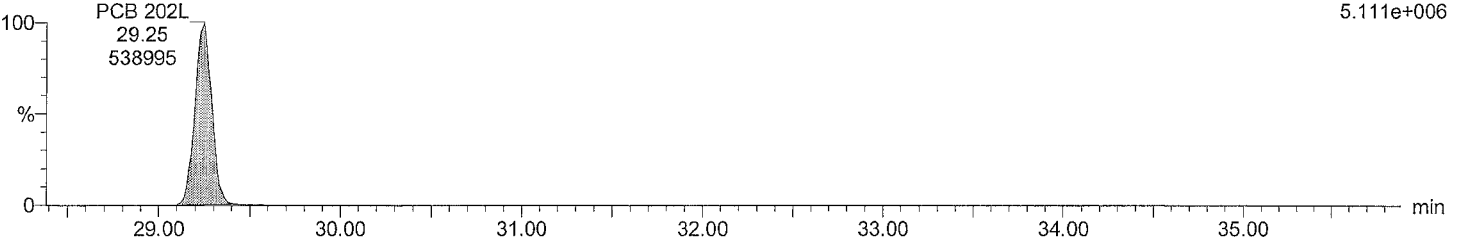
M2160211AS006 Smooth(SG,3x1)

F6:SIR of 14 channels,EI+

CS5\_PCB 150417CXU

441.8008

5.111e+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: CS5\_PCB 150417CXU**

Vial: 6

Date: 11-FEB-2016

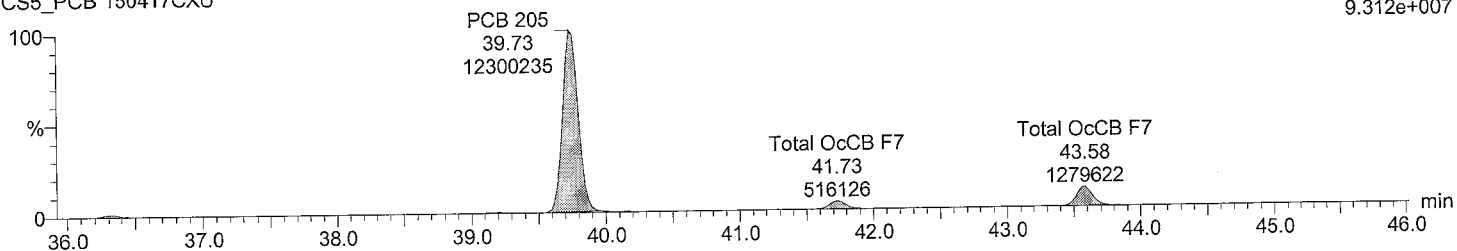
Time: 22:03:55

Instrument: Autospec-UltimaE

**Total OcCB F7**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

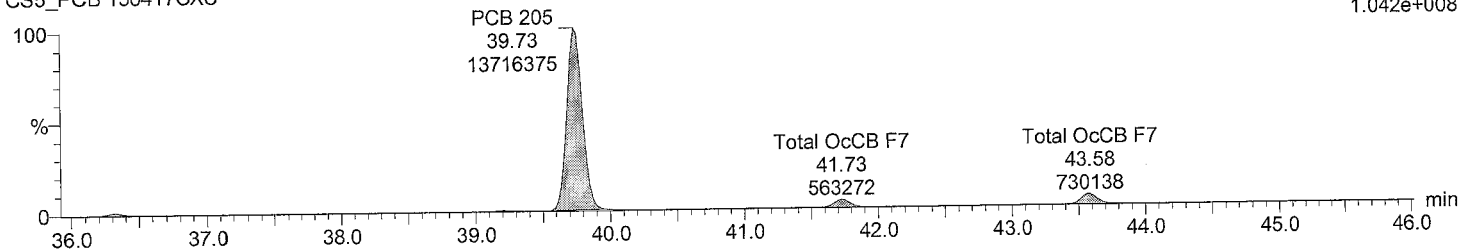
F7:SIR of 18 channels,EI+  
427.7635  
9.312e+007



**Total OcCB F7**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

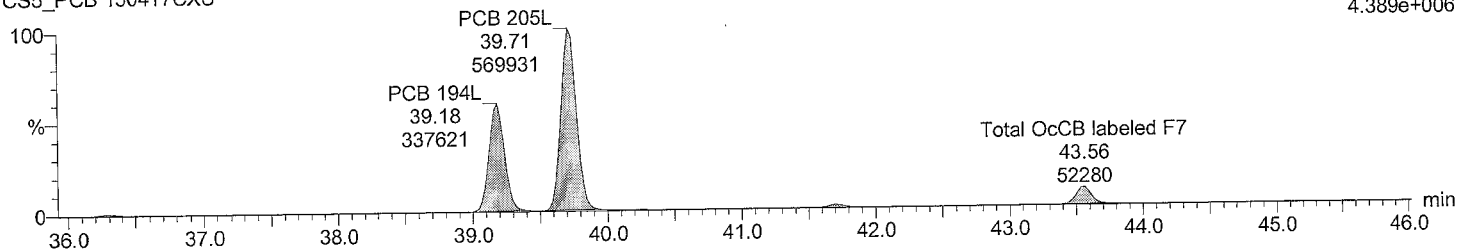
F7:SIR of 18 channels,EI+  
429.7606  
1.042e+008



**Total OcCB labeled F7**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

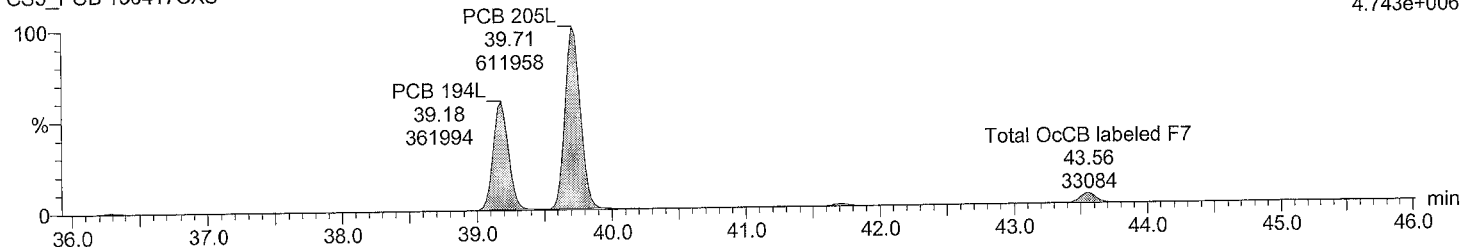
F7:SIR of 18 channels,EI+  
439.8038  
4.389e+006



**Total OcCB labeled F7**

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
441.8008  
4.743e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

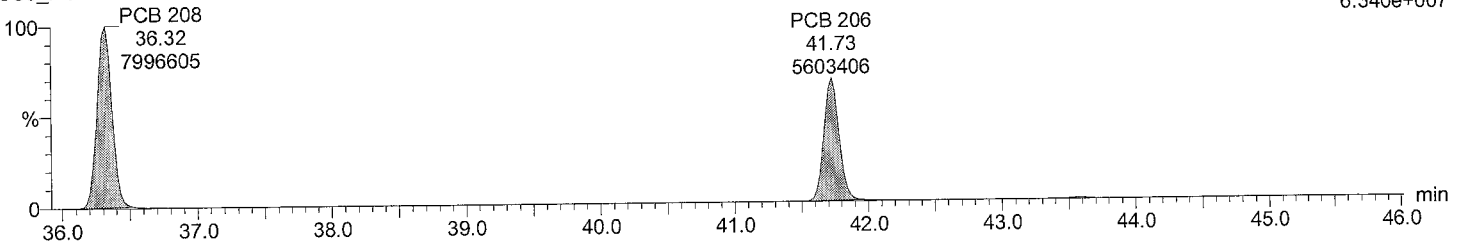
Time: 22:03:55

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

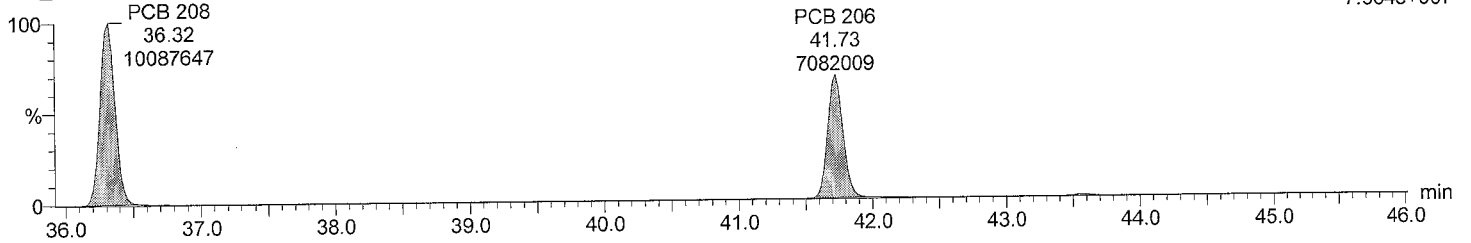
F7:SIR of 18 channels,EI+  
461.7246  
6.340e+007



Total NoCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

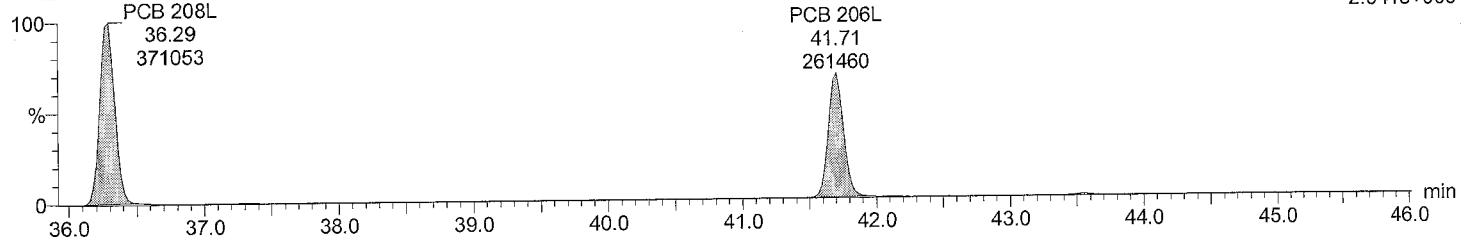
F7:SIR of 18 channels,EI+  
463.7216  
7.964e+007



Total NoCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

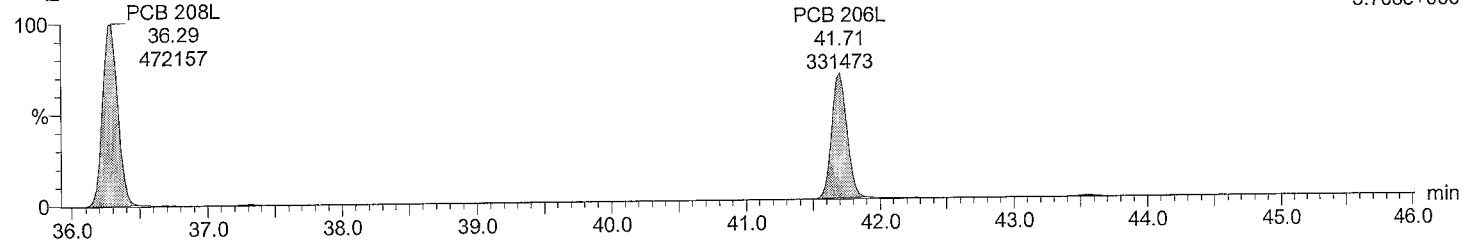
F7:SIR of 18 channels,EI+  
473.7648  
2.941e+006



Total NoCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

F7:SIR of 18 channels,EI+  
475.7619  
3.708e+006



AutoSpec Ultima - M2

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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

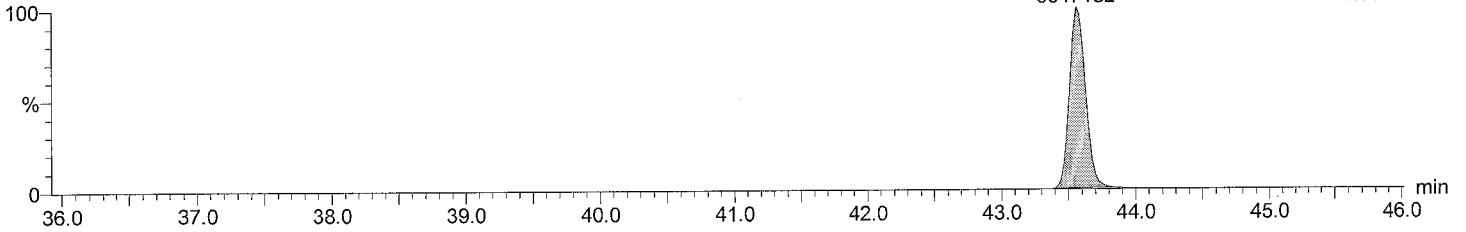
Time: 22:03:55

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

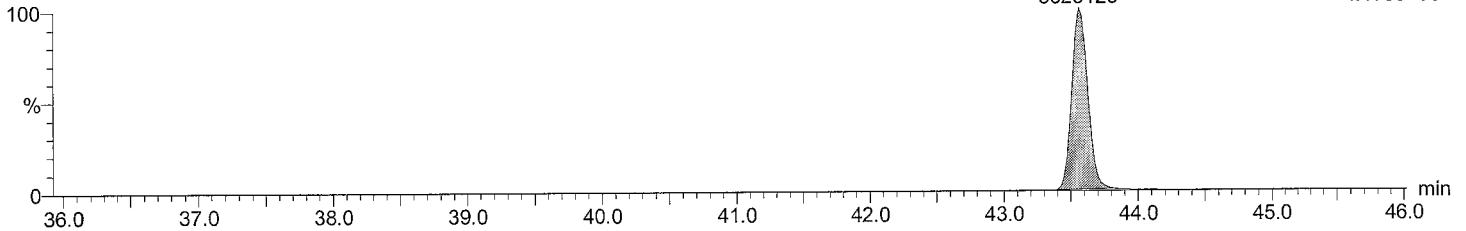
PCB 209 F7:SIR of 18 channels,EI+  
43.56 497.6826  
6647182 4.999e+007



Total DeCB F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

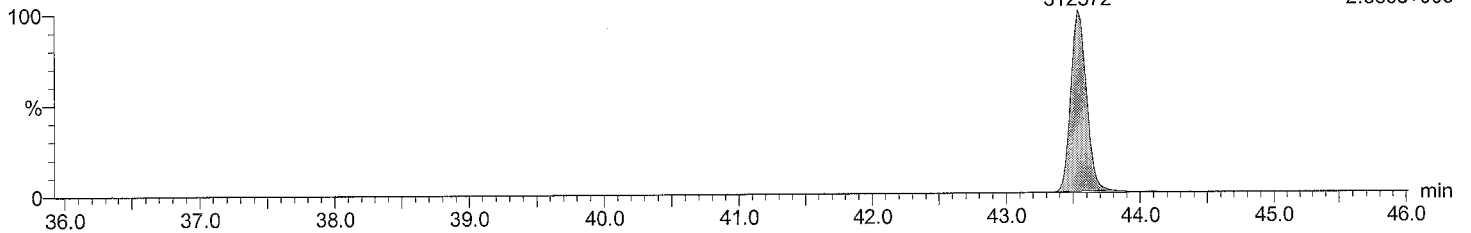
PCB 209 F7:SIR of 18 channels,EI+  
43.56 499.6797  
5529123 4.173e+007



Total DeCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

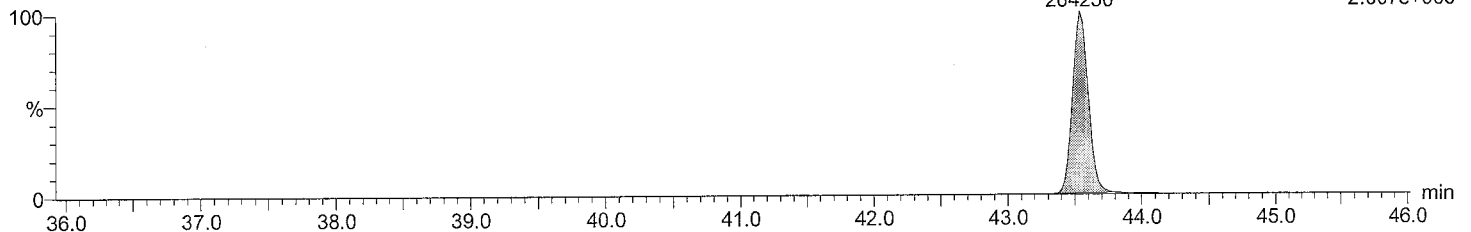
PCB 209L F7:SIR of 18 channels,EI+  
43.54 509.7229  
312372 2.389e+006



Total DeCB labeled F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

PCB 209L F7:SIR of 18 channels,EI+  
43.54 511.7199  
264250 2.007e+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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

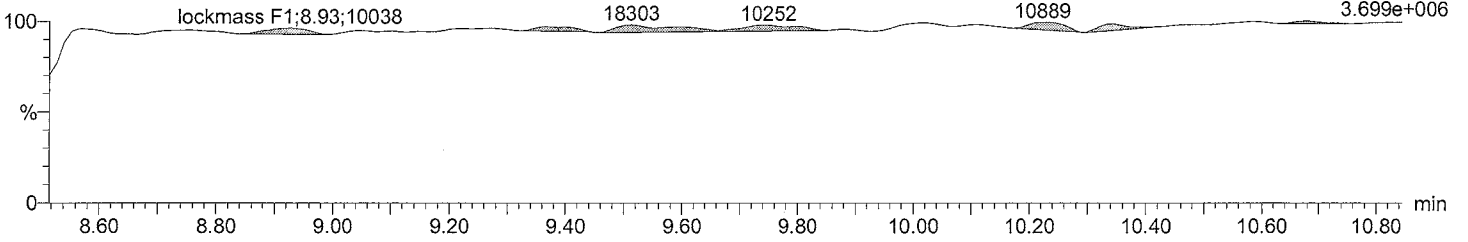
Time: 22:03:55

Instrument: Autospec-UltimaE

lockmass F1

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

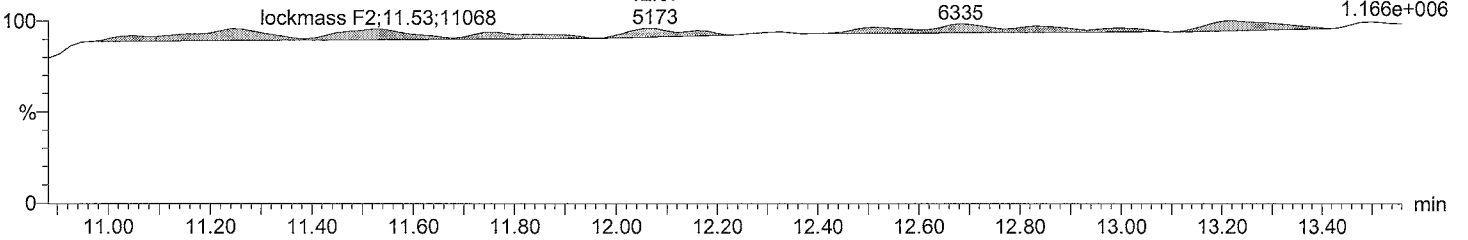
lockmass F1	lockmass F1	lockmass F1	F1:SIR of 10 channels,EI+
9.51	9.75	10.22	218.9856
18303	10252	10889	3.699e+006



lockmass F2

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

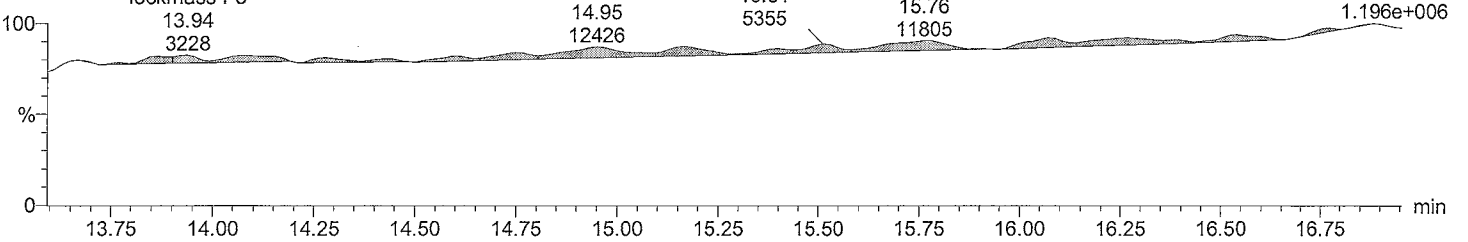
lockmass F2	lockmass F2	F2:SIR of 16 channels,EI+
12.07	12.68	242.9856
5173	6335	1.166e+006



lockmass F3

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

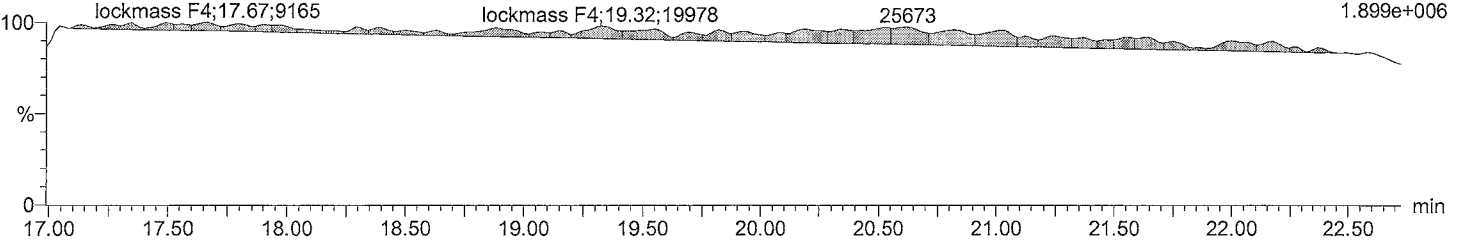
lockmass F3	lockmass F3	lockmass F3	F3:SIR of 14 channels,EI+
13.94	14.95	15.51	292.9824
3228	12426	5355	1.196e+006
		15.76	
		11805	



lockmass F4

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

lockmass F4	lockmass F4	F4:SIR of 14 channels,EI+	
17.67	19.32	330.9792	
9165	19978	1.899e+006	
		20.62	
		25673	





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: CS5\_PCB 150417CXU

Vial: 6

Date: 11-FEB-2016

Time: 22:03:55

Instrument: Autospec-UltimaE

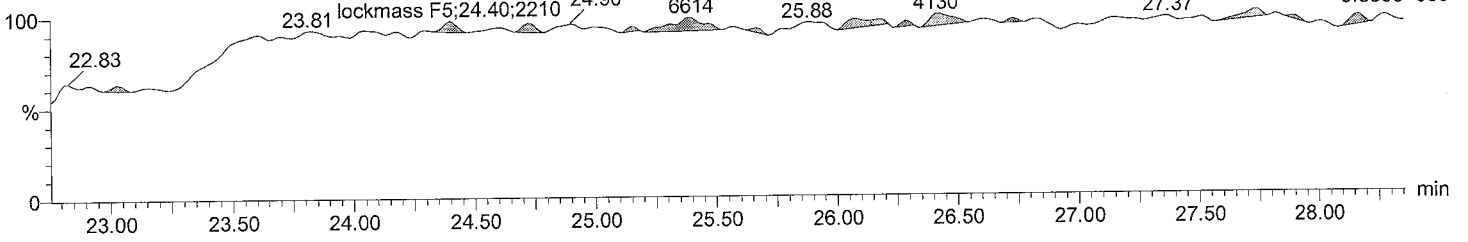
lockmass F5

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

lockmass F5  
25.40  
6614

lockmass F5  
26.41  
4130

F5:SIR of 14 channels, EI+  
354.9792  
5.836e+005



lockmass F6

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

lockmass F6;29.23;2390  
30.20

lockmass F6;31.36;1499

lockmass F6;32.15

lockmass F6;32.61

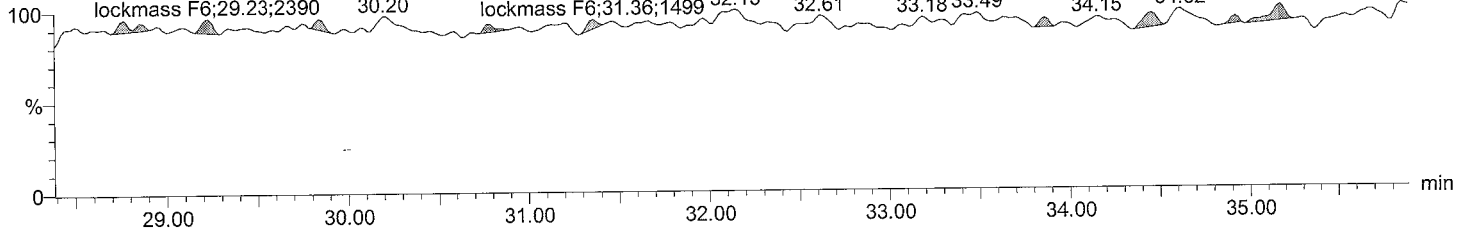
lockmass F6;33.18

lockmass F6;33.49

lockmass F6;34.15

lockmass F6;34.62

F6:SIR of 14 channels, EI+  
404.9760  
4.485e+005



lockmass F7

M2160211AS006 Smooth(SG,3x1)  
CS5\_PCB 150417CXU

lockmass F7;37.28;5032

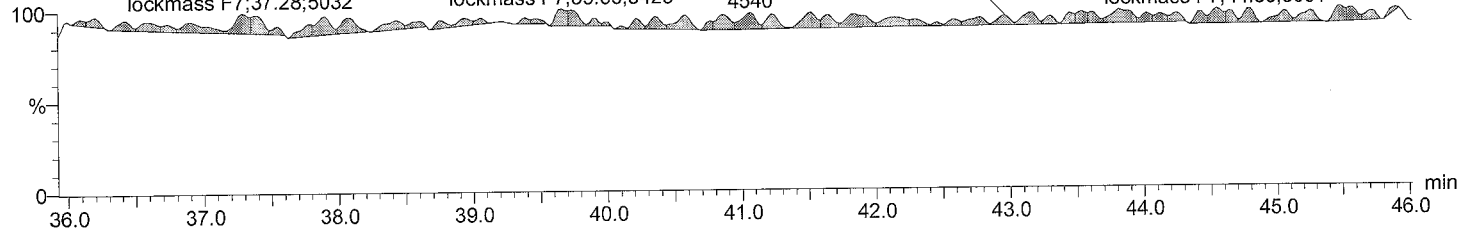
lockmass F7;39.66;3423

lockmass F7  
41.06  
4540

lockmass F7  
42.97  
2210

lockmass F7;44.55;3501

F7:SIR of 18 channels, EI+  
454.9728  
3.836e+005



C:\MassLynx\Default.pro\QLDM2160211A\_sec\_source\_5PT.qld

February 16, 2016 8:09:40 AM Eastern Standard Time

February 16, 2016 8:10:25 AM Eastern Standard Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\EPA 1668 5PT-20160211A.mdb 16 Feb 2016 08:03:01

Calibration: C:\MassLynx\Default.pro\Curvedb\M2160211A\_5PT\_1668.cdb 16 Feb 2016 08:03:15

ID:

Date: 11-FEB-2016

Time: 23:44:21

Instrument: Autospec-UltimaE

Description: CIL CS3 PCB PR-22535L

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1 PCB 1	8.99	1.001	571856	177039	3.23	YES	bb	51.722	3.4	103	29	1.119
2 PCB 3	10.17	1.000	609974	186067	3.28	YES	bd	51.973	3.9	104	30	1.121
3 PCB 4	10.29	1.000	296243	186280	1.59	YES	bb	55.471	10.9	111	31	1.058
4 PCB 15	12.94	1.002	471461	309088	1.53	YES	bb	53.506	7.0	107	32	0.932
5 PCB 19	11.67	1.000	246367	234941	1.05	YES	bb	57.578	15.2	115	33	1.035
6 PCB 37	16.69	1.001	382341	368177	1.04	YES	bb	56.556	13.1	113	34	1.024
7 PCB 54	13.07	1.002	217358	279130	0.78	YES	bb	61.468	22.9	123	35	1.119
8 PCB 81	21.43	1.002	313012	416693	0.75	YES	bb	53.330	6.7	107	36	1.095
9 PCB 77	21.88	1.001	317956	417397	0.76	YES	bb	48.397	-3.2	97	37	1.043
10 PCB 104	15.93	1.001	277532	174705	1.59	YES	bb	48.437	-3.1	97	38	1.060
11 PCB 123	23.50	1.001	427321	276118	1.55	YES	bd	58.467	16.9	117	39	1.046
12 PCB 118	23.78	1.001	453681	291654	1.56	YES	db	53.687	7.4	107	40	1.054
13 PCB 114	24.27	1.001	422401	268622	1.57	YES	bb	50.617	1.2	101	41	1.023
14 PCB 105	24.84	1.001	415087	263580	1.57	YES	bb	52.133	4.3	104	42	1.018
15 PCB 126	27.70	1.001	376303	240904	1.56	YES	bb	51.646	3.3	103	43	1.009
16 PCB 155	19.62	1.001	257500	200150	1.29	YES	bb	52.433	4.9	105	44	1.045
17 PCB 167	29.52	1.001	366472	293342	1.25	YES	db	53.384	6.8	107	45	1.010
18 PCB 156/157	30.71	1.001	731162	580568	1.26	YES	bb	101.112	1.1	101	46	1.028
19 PCB 169	34.11	1.001	317242	249723	1.27	YES	bb	52.467	4.9	105	47	1.002
20 PCB 188	24.23	1.001	223391	206650	1.08	YES	bb	51.453	2.9	103	48	1.041
21 PCB 193/180											49	
22 PCB 170											50	
23 PCB 189	36.85	1.001	261766	259107	1.01	YES	bb	52.700	5.4	105	51	0.995
24 PCB 202	29.27	1.001	177033	196943	0.90	YES	bb	50.499	1.0	101	52	0.997
25 PCB 205	39.74	1.001	188507	211523	0.89	YES	bb	54.266	8.5	109	53	1.184
26 PCB 208	36.30	1.001	126394	162497	0.78	YES	bb	47.813	-4.4	96	54	0.979
27 PCB 206	41.71	1.001	81339	102604	0.79	YES	bd	49.568	-0.9	99	55	1.018
28 PCB 209	43.57	1.001	108332	88444	1.22	YES	bd	60.247	20.5	120	56	1.253
29 PCB 1L	8.98	0.803	1020277	318114	3.21	YES	bb	91.283	-8.7	91	63	0.752
30 PCB 3L	10.17	0.910	1084287	335664	3.23	YES	bd	93.599	-6.4	94	63	0.798
31 PCB 4L	10.29	0.920	557844	354007	1.58	YES	bb	94.415	-5.6	94	63	0.512
32 PCB 15L	12.92	1.155	1027915	647864	1.59	YES	bb	87.639	-12.4	88	63	0.942
33 PCB 19L	11.67	1.043	477081	453113	1.05	YES	bb	90.384	-9.6	90	63	0.523
34 PCB 37L	16.67	1.086	749882	715626	1.05	YES	bb	86.230	-13.8	86	64	1.713
35 PCB 54L	13.05	0.850	395537	491524	0.80	YES	bb	79.924	-20.1	80	64	1.037
36 PCB 81L	21.40	1.394	594310	738061	0.81	YES	bb	89.614	-10.4	90	64	1.557
37 PCB 77L	21.86	1.424	628007	782450	0.80	YES	bb	98.306	-1.7	98	64	1.649
38 PCB 104L	15.92	0.805	528586	324582	1.63	YES	bb	98.667	-1.3	99	65	1.140
39 PCB 123L	23.48	1.188	828485	516594	1.60	YES	bd	92.864	-7.1	93	65	1.798
40 PCB 118L	23.77	1.203	872658	541827	1.61	YES	db	99.196	-0.8	99	65	1.890
41 PCB 114L	24.25	1.227	836995	514323	1.63	YES	bb	101.873	1.9	102	65	1.806
42 PCB 105L	24.82	1.256	826630	506462	1.63	YES	bb	97.765	-2.2	98	65	1.782
43 PCB 126L	27.69	1.401	755938	467750	1.62	YES	bb	94.237	-5.8	94	65	1.635
44 PCB 155L	19.60	0.738	493231	382576	1.29	YES	bb	90.034	-10.0	90	66	1.264

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:25 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 23:44:21

Instrument: Autospec-UltimaE

Description: CIL CS3 PCB PR-22535L

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45	PCB 167L	29.51	1.111	731577	575139	1.27	YES	db	89.361	-10.6	89	66	1.885
46	PCB 156L/157L	30.67	1.155	1427120	1123914	1.27	YES	bb	191.613	-4.2	96	66	1.840
47	PCB 169L	34.09	1.283	635122	497090	1.28	YES	bb	86.605	-13.4	87	66	1.634
48	PCB 188L	24.19	0.911	425146	400814	1.06	YES	bb	89.645	-10.4	90	66	1.192
49	PCB 180L											67	
50	PCB 170L											67	
51	PCB 189L	36.83	0.940	542999	504297	1.08	YES	bb	90.432	-9.6	90	67	1.951
52	PCB 202L	29.24	0.746	355609	394271	0.90	YES	bb	98.409	-1.6	98	67	1.397
53	PCB 205L	39.72	1.014	326359	349587	0.93	YES	bb	82.226	-17.8	82	67	1.259
54	PCB 208L	36.28	0.926	260840	329514	0.79	YES	bb	96.513	-3.5	97	67	1.100
55	PCB 206L	41.69	1.064	162642	198832	0.82	YES	bb	88.651	-11.3	89	67	0.673
56	PCB 209L	43.55	1.112	172695	141396	1.22	YES	bb	80.777	-19.2	81	67	0.585
57	PCB 28L	14.40	0.938	887541	843284	1.05	YES	bb	99.207	-0.8	99	64	2.023
58	PCB 111L	21.83	1.105	597572	370950	1.61	YES	bb	96.380	-3.6	96	65	1.294
59	PCB 178L	26.97	1.015	256091	240247	1.07	YES	bb	97.709	-2.3	98	66	0.716
60	PCB 31L											64	
61	PCB 95L											65	
62	PCB 153L											66	
63	PCB 9L	11.18	0.000	1093802	686025	1.59	YES	bb	94.894	-5.1	95	0	17798...
64	PCB 52L	15.36	0.000	376603	478923	0.79	YES	bb	86.805	-13.2	87	0	8555...
65	PCB 101L	19.76	0.000	464777	283450	1.64	YES	bb	84.240	-15.8	84	0	7482...
66	PCB 138L	26.56	0.000	393046	300038	1.31	YES	bb	85.857	-14.1	86	0	6930...
67	PCB 194L	39.17	0.000	258814	278021	0.93	YES	bb	82.196	-17.8	82	0	5368...
68	Total MoCB F1								103.695			29	
69	Total MoCB labeled ...								184.882			63	
70	Total DiCB F1								55.471			31	
71	Total DiCB labeled F1								94.415			63	
72	Total DiCB F2								53.506			32	
73	Total DiCB labeled F2								182.534			63	
74	Total TriCB F2								57.578			33	
75	Total TriCB labeled F2								90.384			63	
76	Total TriCB F3								56.556			34	
77	Total TriCB labeled F3								185.437			64	
78	Total TeCB F2								61.468			35	
79	Total TeCB labeled F2								79.924			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								86.805			64	
82	Total TeCB F4								101.727			36	
83	Total TeCB labeled F4								187.920			64	
84	Total PeCB F3								48.437			38	
85	Total PeCB labeled F3								98.667			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								180.621			65	
88	Total PeCB F5								266.551			39	
89	Total PeCB labeled F5								485.935			65	
90	Total HxCB F4								52.433			44	
91	Total HxCB labeled F4								90.034			66	
92	Total HxCB F5											45	

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**ID:**  
**Date: 11-FEB-2016**  
**Time: 23:44:21**  
**Instrument: Autospec-UltimaE**  
**Description: CIL CS3 PCB PR-22535L**

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio	Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93	Total HxCB labeled F5									85.857			66	
94	Total HxCB F6									206.963			45	
95	Total HxCB labeled F6									367.579			66	
96	Total HpCB F5									51.453			48	
97	Total HpCB labeled ...									187.354			67	
98	Total HpCB F6												49	
99	Total HpCB labeled ...												67	
100	Total HpCB F7									52.700			51	
101	Total HpCB labeled ...									90.432			67	
102	Total OcCB F6									50.499			52	
103	Total OcCB labeled ...									98.409			67	
104	Total OcCB F7									54.266			53	
105	Total OcCB labeled ...									164.423			67	
106	Total NoCB F7									97.381			54	
107	Total NoCB labeled ...									185.164			67	
108	Total DeCB F7									60.247			56	
109	Total DeCB labeled ...									80.777			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\_sec\_source\_5PT.qld

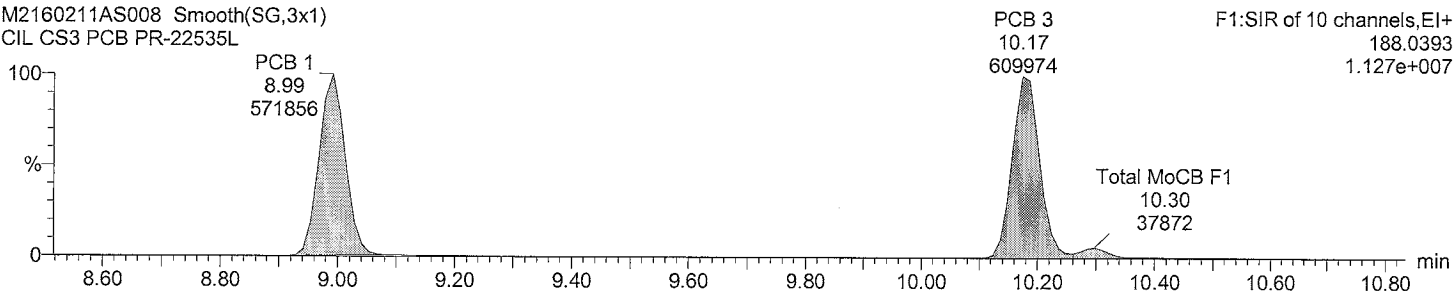
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Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

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Description: CIL CS3 PCB PR-22535L  
Vial: 8  
Date: 11-FEB-2016  
Time: 23:44:21  
Instrument: Autospec-UltimaE

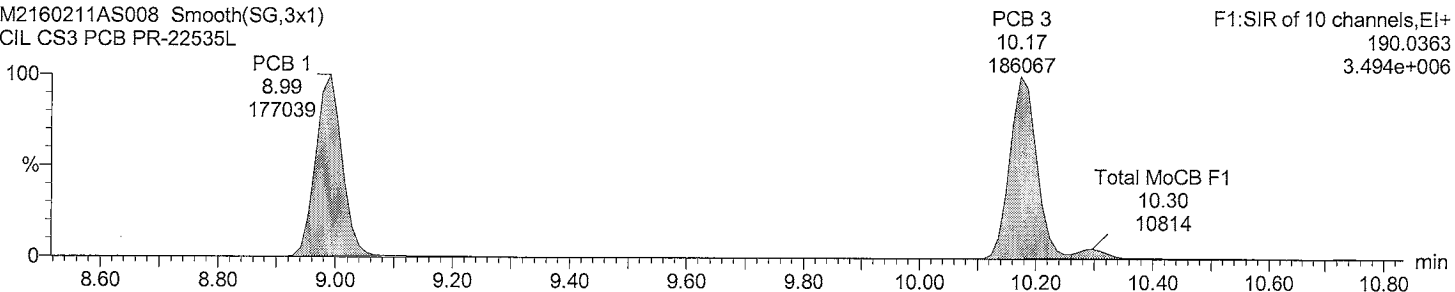
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M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L



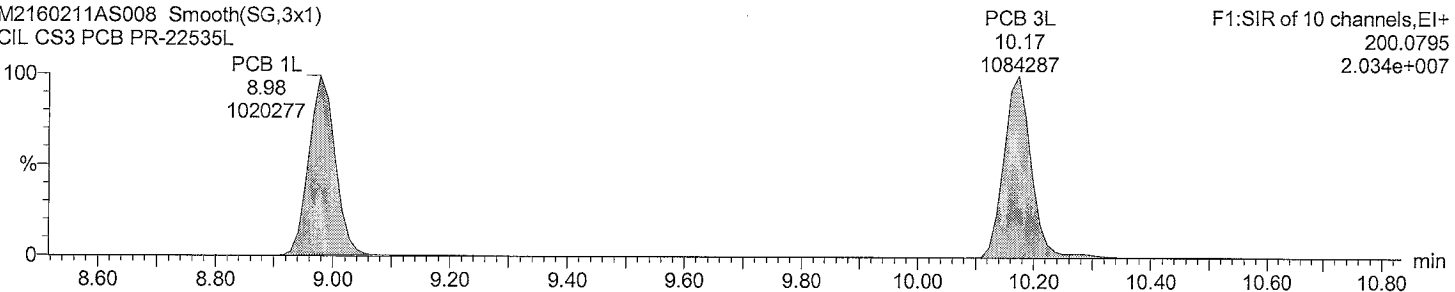
Total MoCB F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L



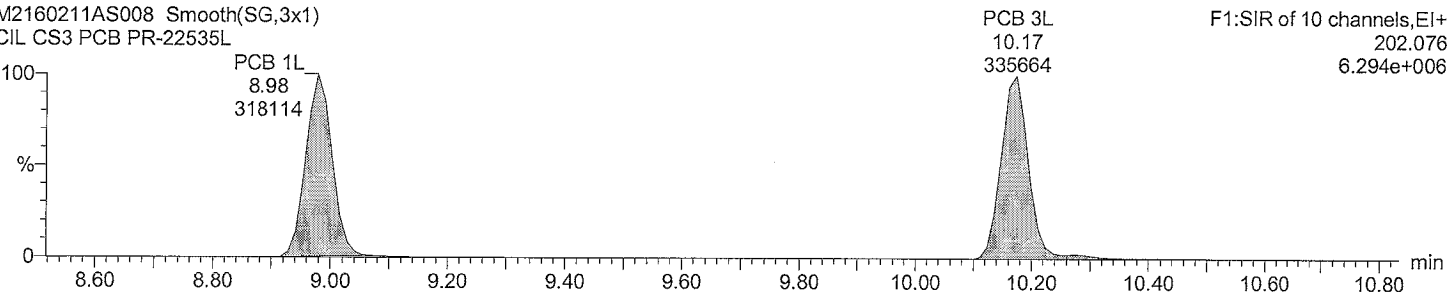
Total MoCB labeled F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L



Total MoCB labeled F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L



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Vial: 8

Date: 11-FEB-2016

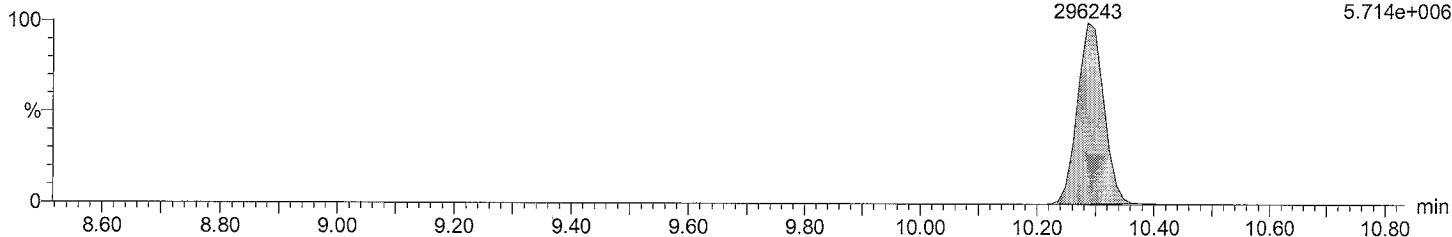
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Total DiCB F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

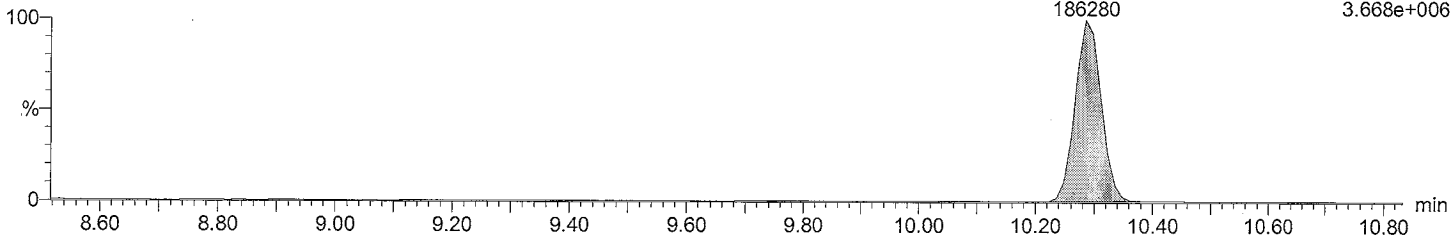
PCB 4  
10.29  
296243  
F1:SIR of 10 channels,EI+  
222.0003  
5.714e+006



Total DiCB F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

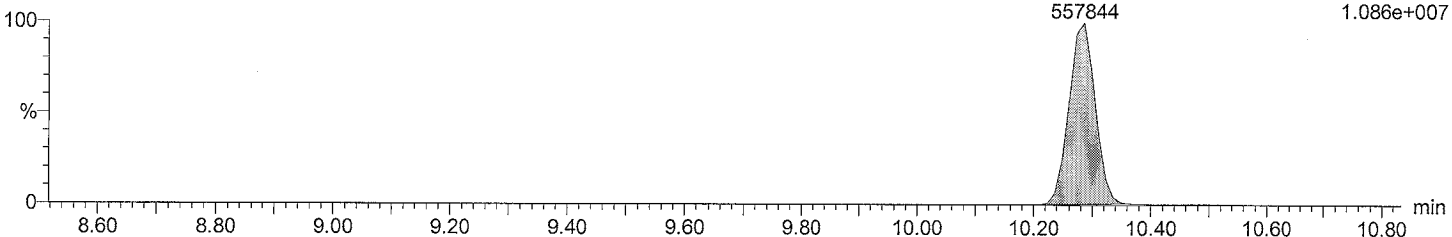
PCB 4  
10.29  
186280  
F1:SIR of 10 channels,EI+  
223.9974  
3.668e+006



Total DiCB labeled F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

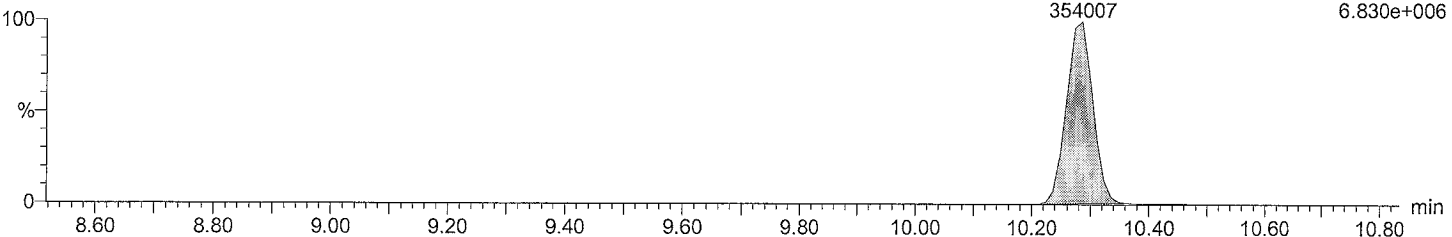
PCB 4L  
10.29  
557844  
F1:SIR of 10 channels,EI+  
234.0406  
1.086e+007



Total DiCB labeled F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 4L  
10.29  
354007  
F1:SIR of 10 channels,EI+  
236.0376  
6.830e+006



Acquired Date

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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

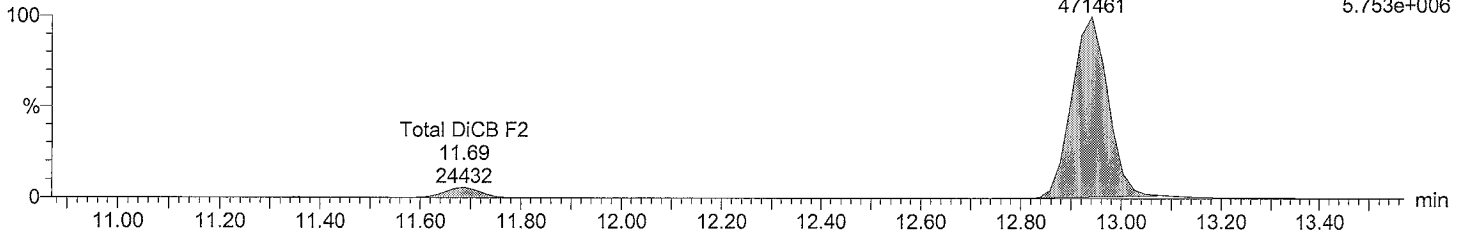
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Instrument: Autospec-UltimaE

Total DiCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

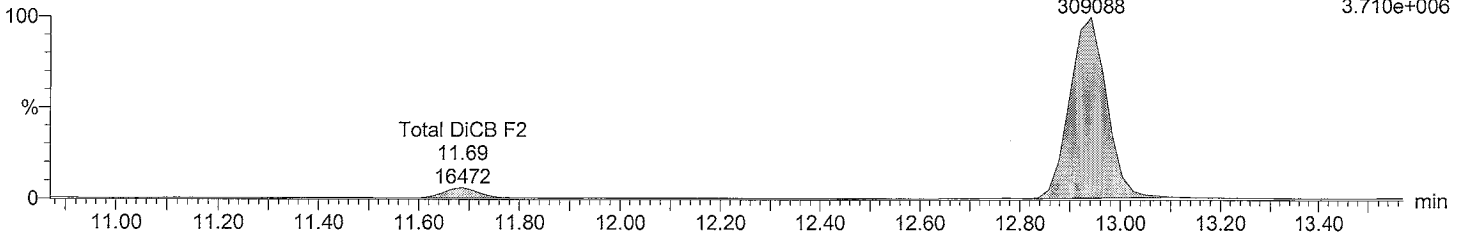
PCB 15 12.94 471461  
F2:SIR of 16 channels,EI+ 222.0003 5.753e+006



Total DiCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

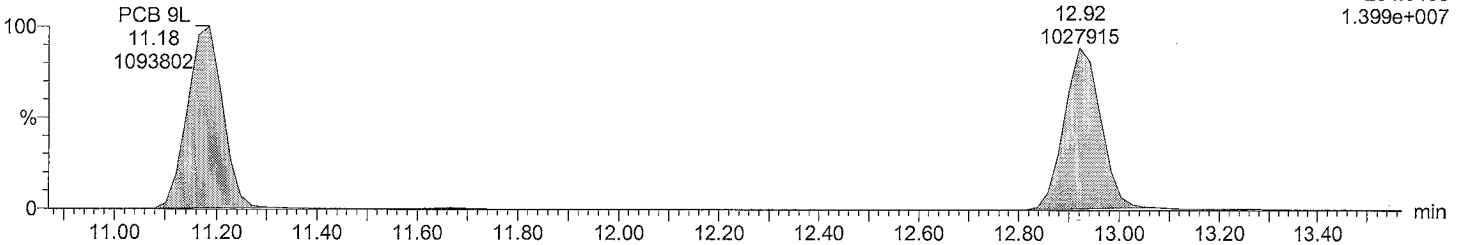
PCB 15 12.94 309088  
F2:SIR of 16 channels,EI+ 223.9974 3.710e+006



Total DiCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

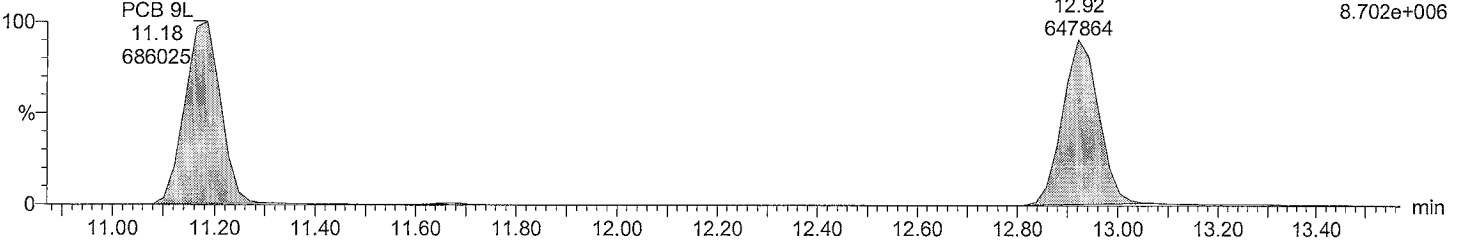
PCB 15L 12.92 1027915  
F2:SIR of 16 channels,EI+ 234.0406 1.399e+007



Total DiCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 15L 12.92 647864  
F2:SIR of 16 channels,EI+ 236.0376 8.702e+006



Acquired Date

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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

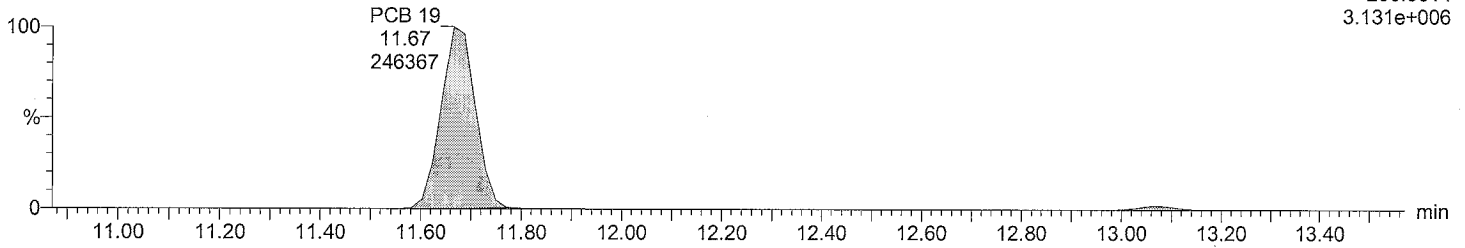
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Total TriCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

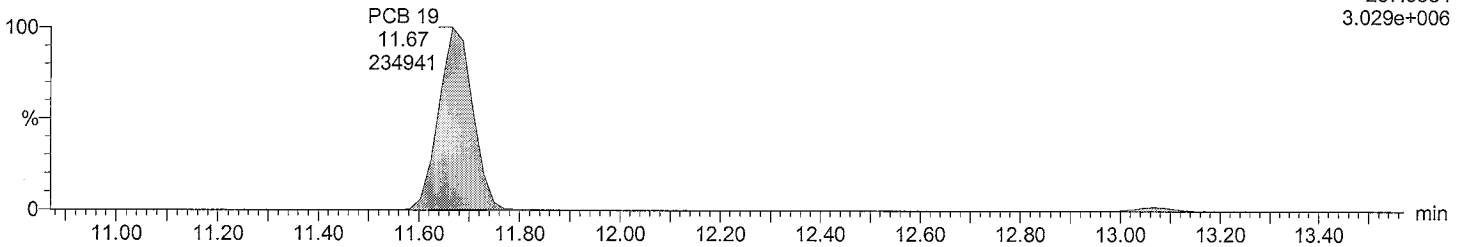
F2:SIR of 16 channels,EI+  
255.9614  
3.131e+006



Total TriCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

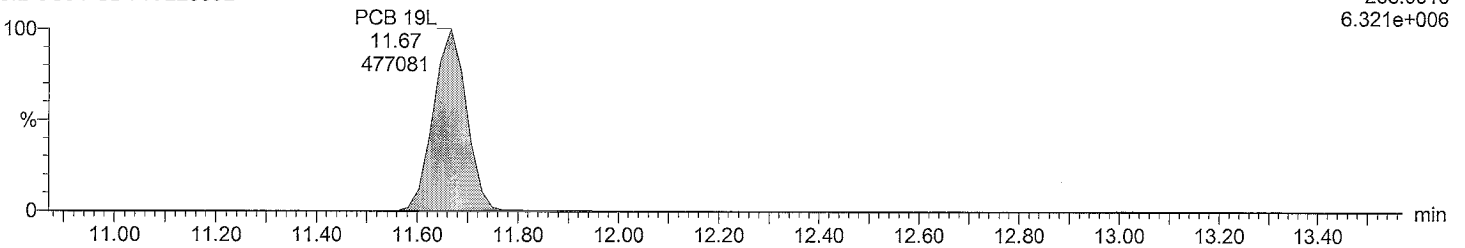
F2:SIR of 16 channels,EI+  
257.9584  
3.029e+006



Total TriCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

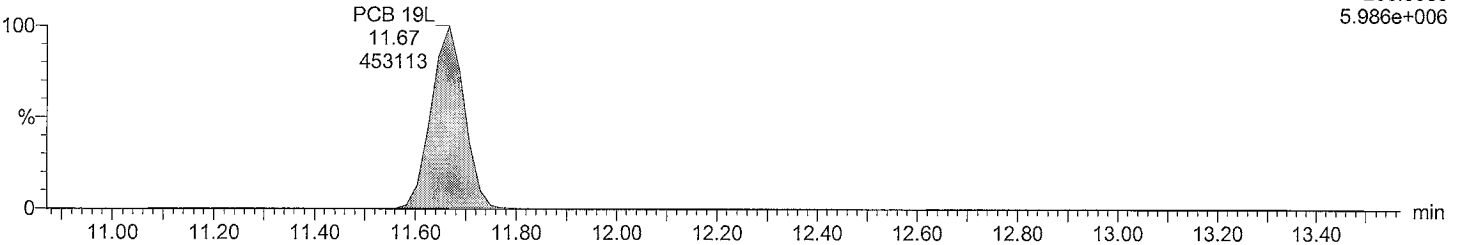
F2:SIR of 16 channels,EI+  
268.0016  
6.321e+006



Total TriCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F2:SIR of 16 channels,EI+  
269.9986  
5.986e+006





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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

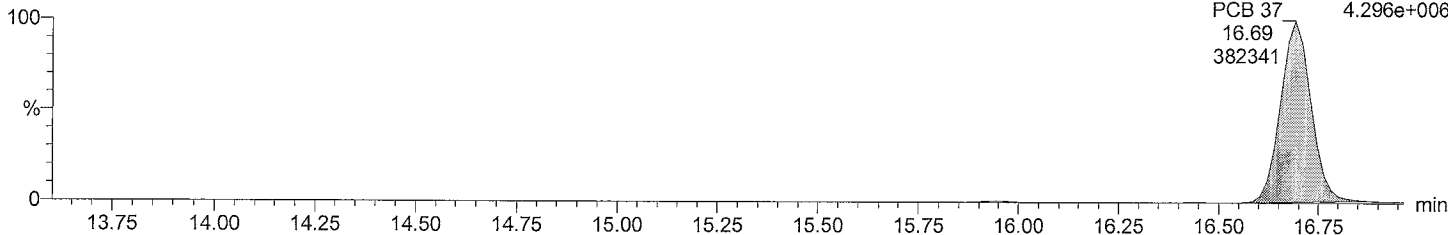
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Total TriCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

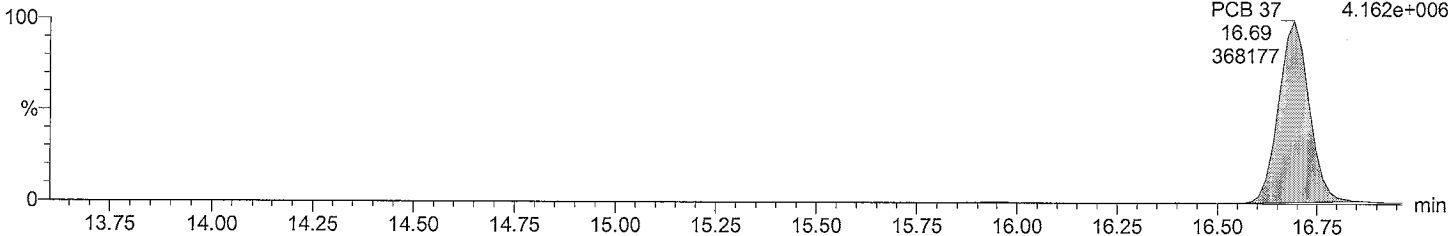
F3:SIR of 14 channels,EI+  
255.9614  
4.296e+006



Total TriCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

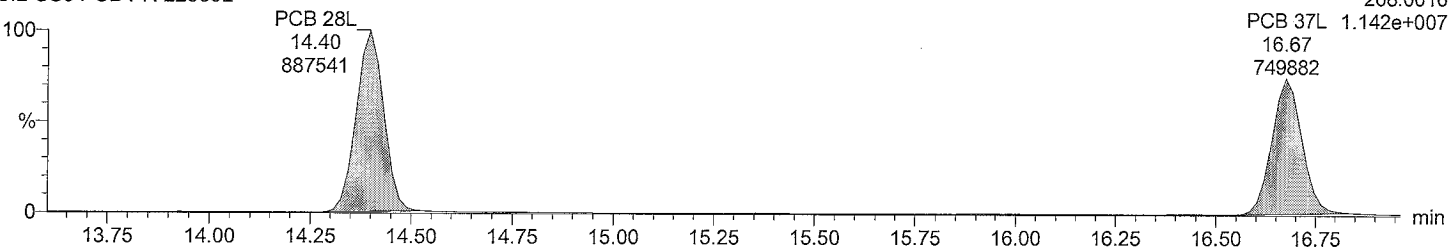
F3:SIR of 14 channels,EI+  
257.9584  
4.162e+006



Total TriCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

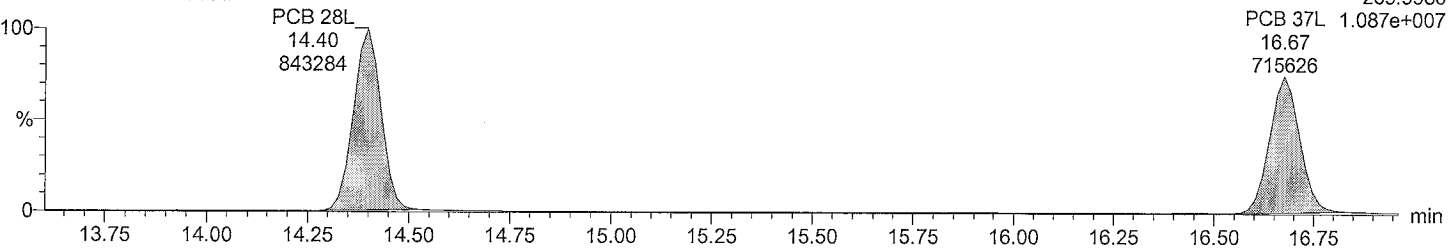
F3:SIR of 14 channels,EI+  
268.0016  
1.142e+007



Total TriCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F3:SIR of 14 channels,EI+  
269.9986  
1.087e+007



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Vial: 8

Date: 11-FEB-2016

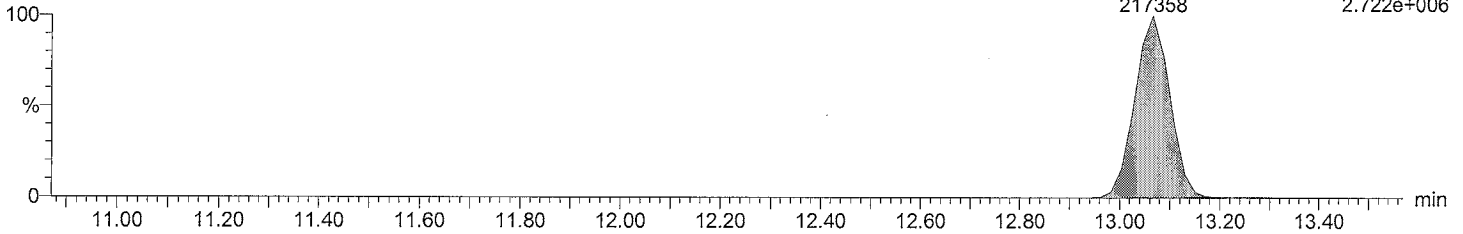
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Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

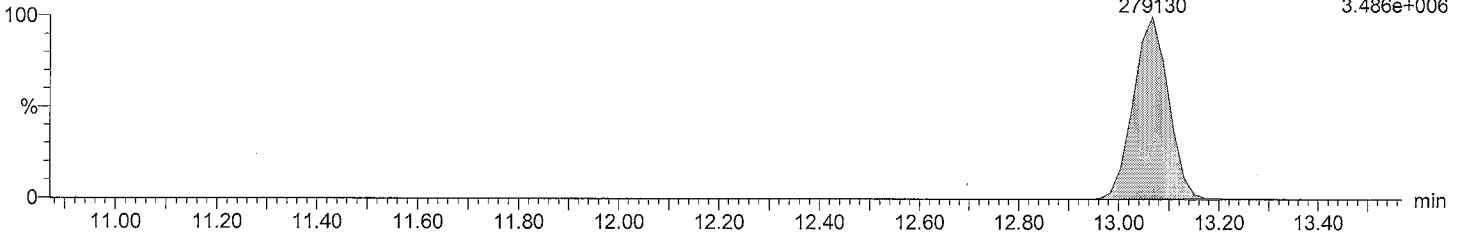
PCB 54 F2:SIR of 16 channels,EI+  
13.07 289.9224  
217358 2.722e+006



Total TeCB F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

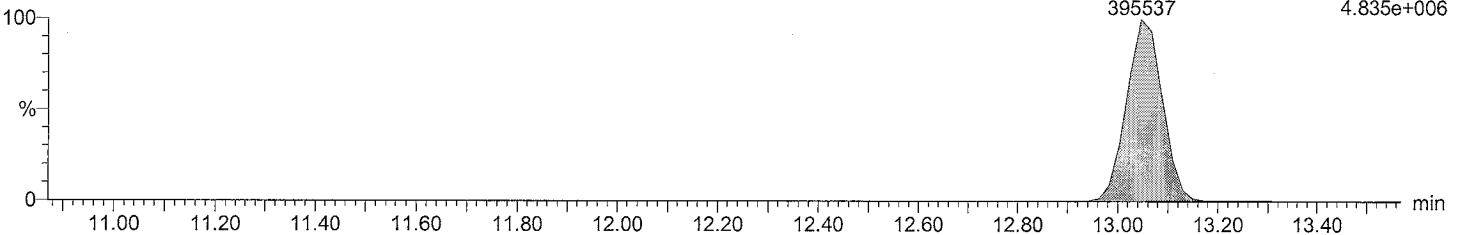
PCB 54 F2:SIR of 16 channels,EI+  
13.07 291.9194  
279130 3.486e+006



Total TeCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

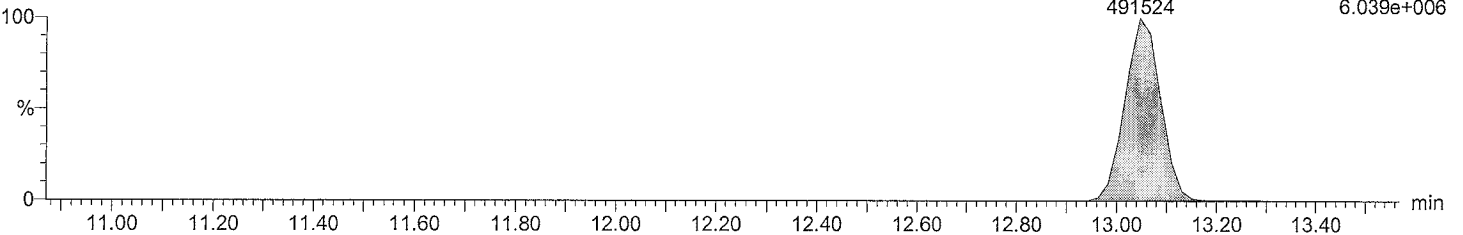
PCB 54L F2:SIR of 16 channels,EI+  
13.05 301.9626  
395537 4.835e+006



Total TeCB labeled F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 54L F2:SIR of 16 channels,EI+  
13.05 303.9597  
491524 6.039e+006



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Time: 23:44:21

Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

Total TeCB F3

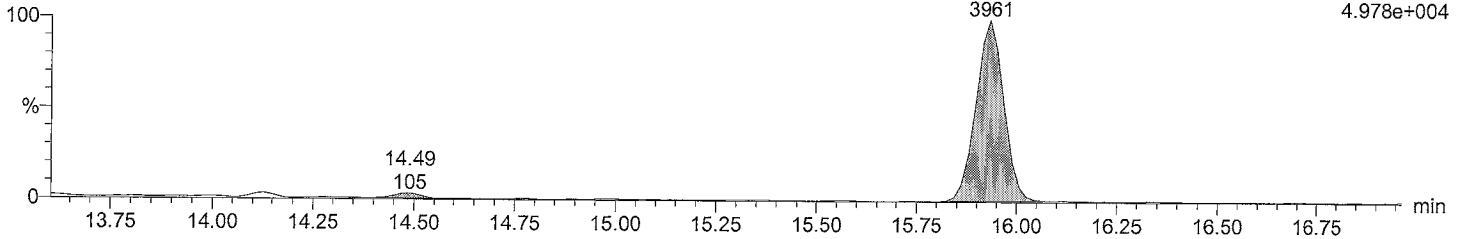
F3:SIR of 14 channels,EI+

15.93

289.9224

3961

4.978e+004



Total TeCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

Total TeCB F3

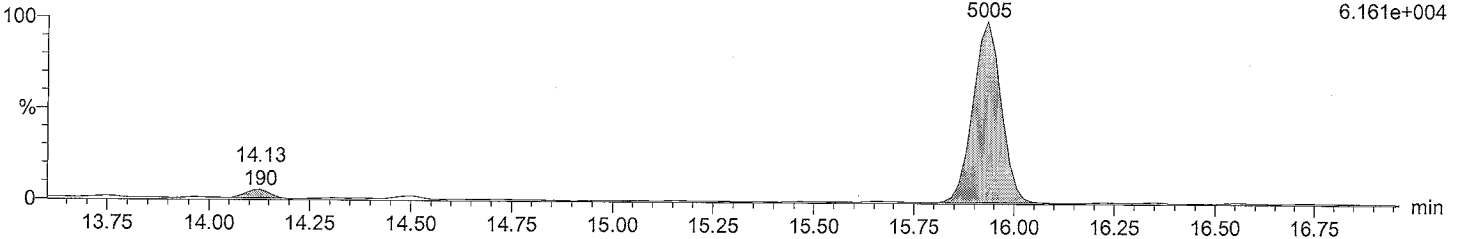
F3:SIR of 14 channels,EI+

15.93

291.9194

5005

6.161e+004



Total TeCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 52L

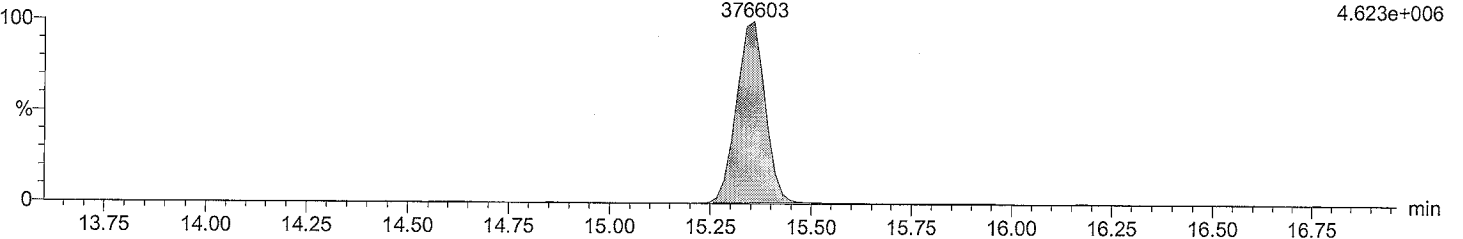
F3:SIR of 14 channels,EI+

15.36

301.9626

376603

4.623e+006



Total TeCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 52L

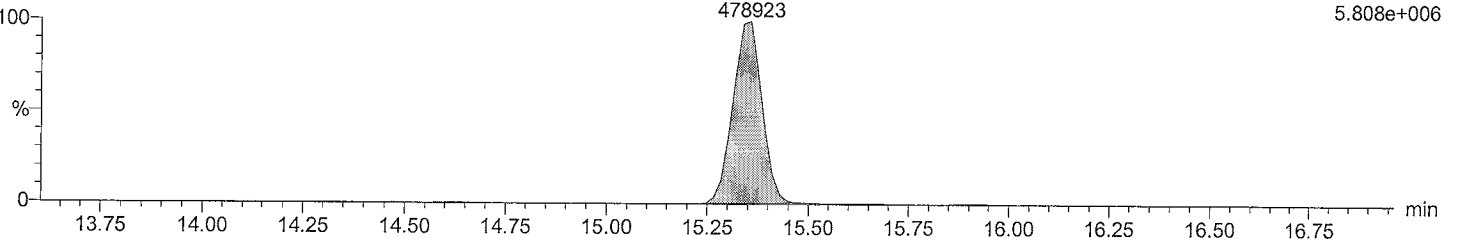
F3:SIR of 14 channels,EI+

15.36

303.9597

478923

5.808e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

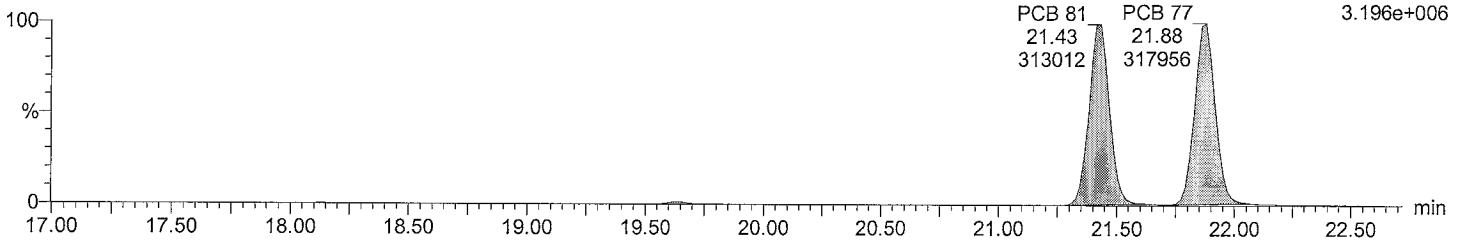
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Total TeCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

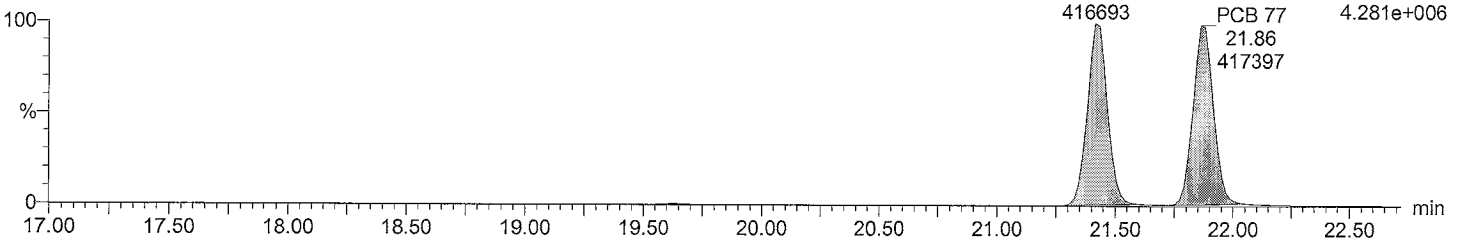
F4:SIR of 14 channels,EI+  
289.9224  
3.196e+006



Total TeCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

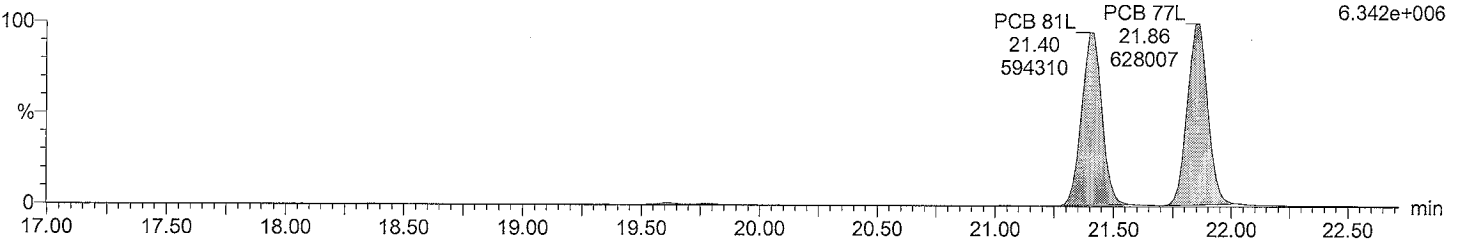
F4:SIR of 14 channels,EI+  
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4.281e+006



Total TeCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

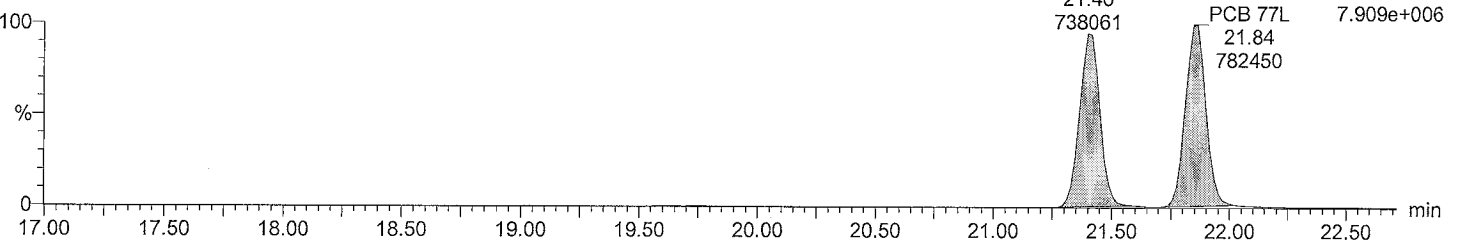
F4:SIR of 14 channels,EI+  
301.9626  
6.342e+006



Total TeCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F4:SIR of 14 channels,EI+  
303.9597  
7.909e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

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Vial: 8

Date: 11-FEB-2016

Time: 23:44:21

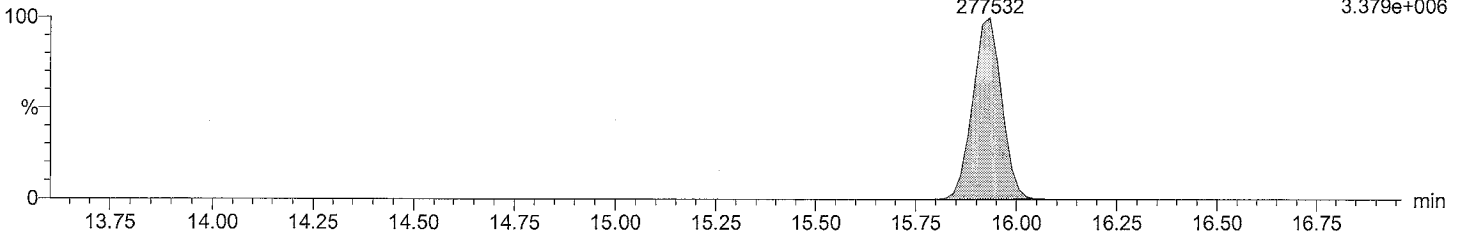
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 104  
15.93  
277532

F3:SIR of 14 channels,EI+  
325.8805  
3.379e+006

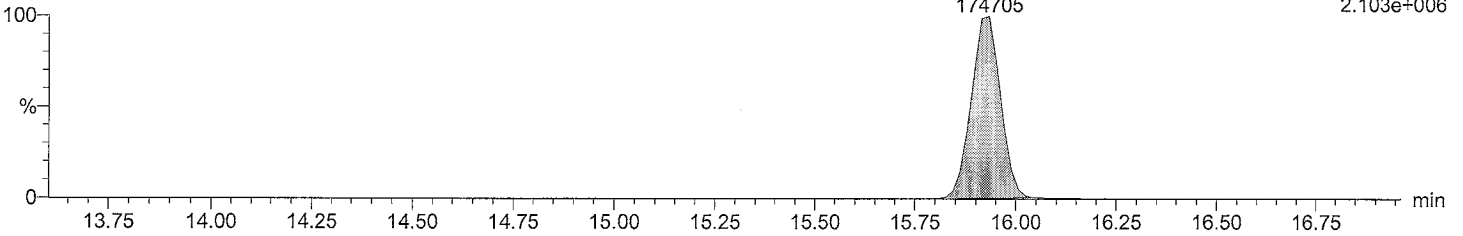


Total PeCB F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 104  
15.93  
174705

F3:SIR of 14 channels,EI+  
327.8775  
2.103e+006

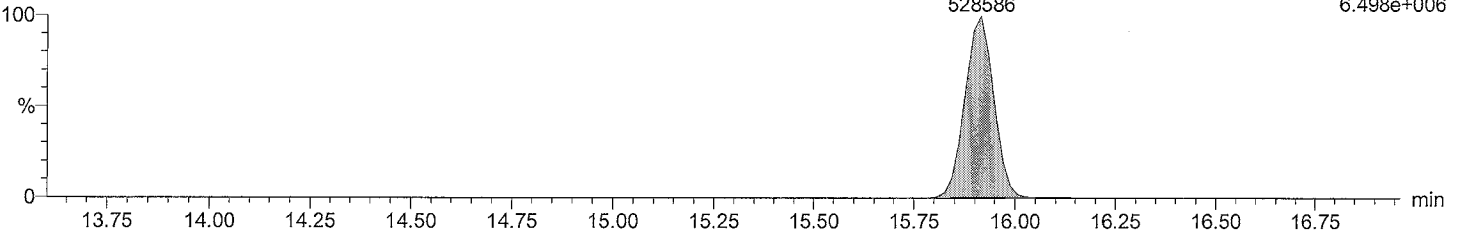


Total PeCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 104L  
15.92  
528586

F3:SIR of 14 channels,EI+  
337.9207  
6.498e+006

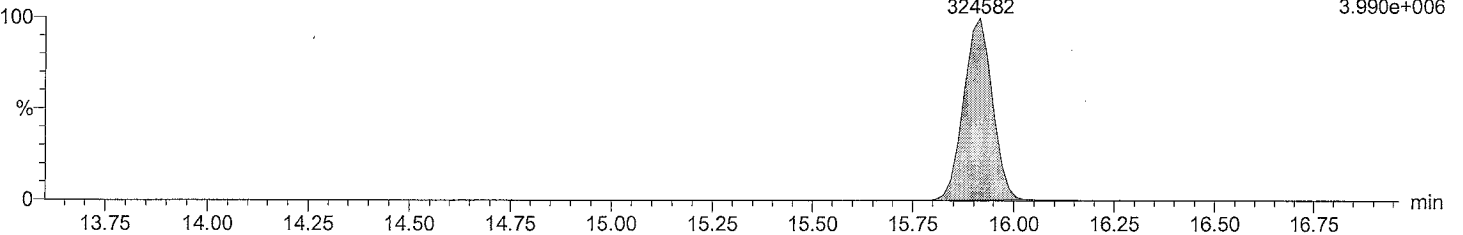


Total PeCB labeled F3

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 104L  
15.92  
324582

F3:SIR of 14 channels,EI+  
339.9178  
3.990e+006



Acquired Date

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Vial: 8

Date: 11-FEB-2016

Time: 23:44:21

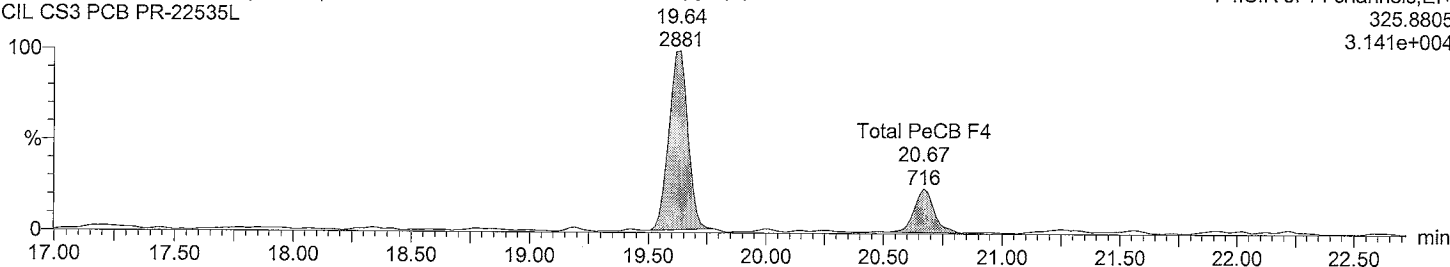
Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

Total PeCB F4

F4:SIR of 14 channels,EI+  
325.8805  
3.141e+004

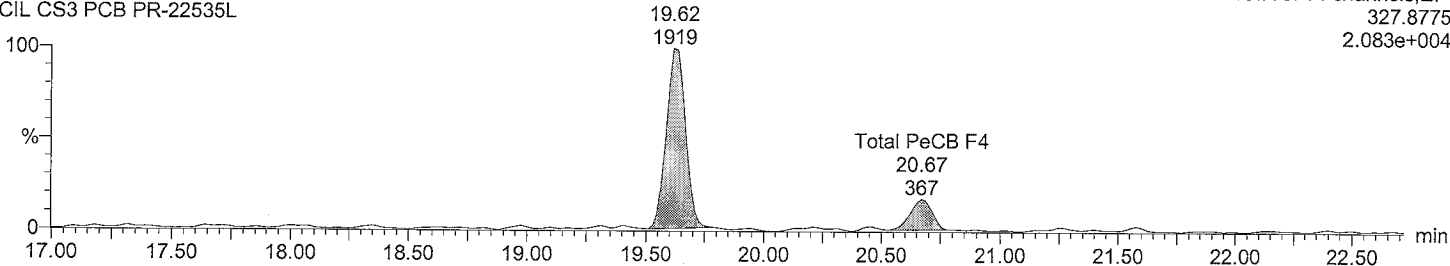


Total PeCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

Total PeCB F4

F4:SIR of 14 channels,EI+  
327.8775  
2.083e+004



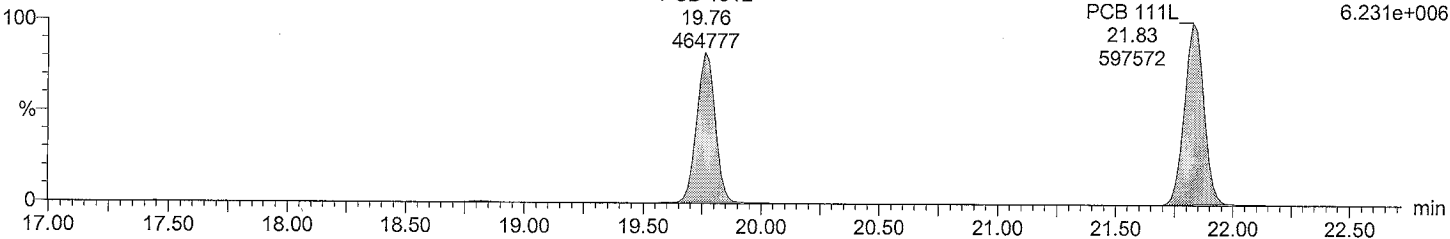
Total PeCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 101L

PCB 111L

F4:SIR of 14 channels,EI+  
337.9207  
6.231e+006



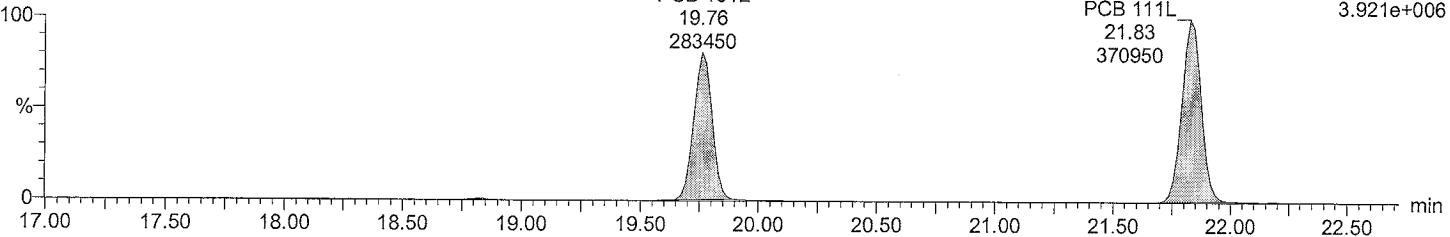
Total PeCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 101L

PCB 111L

F4:SIR of 14 channels,EI+  
339.9178  
3.921e+006



Acquired Date

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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

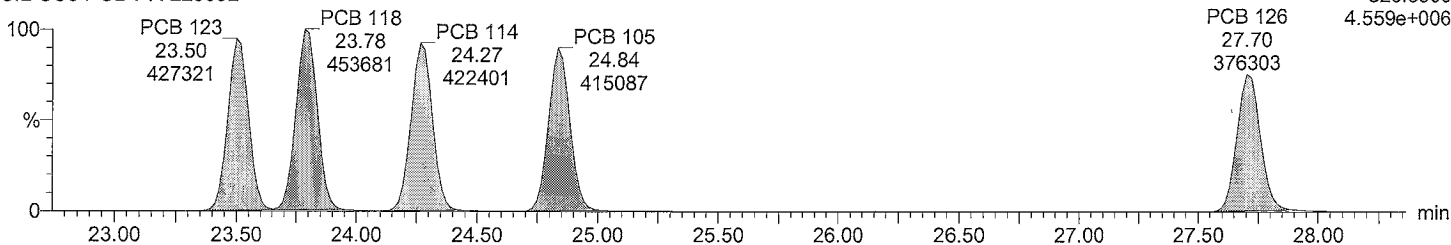
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Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

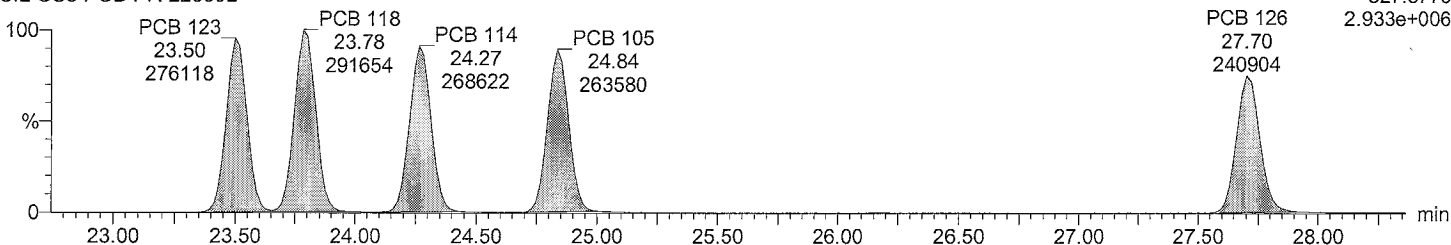
F5:SIR of 14 channels,EI+  
325.8805  
4.559e+006



Total PeCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

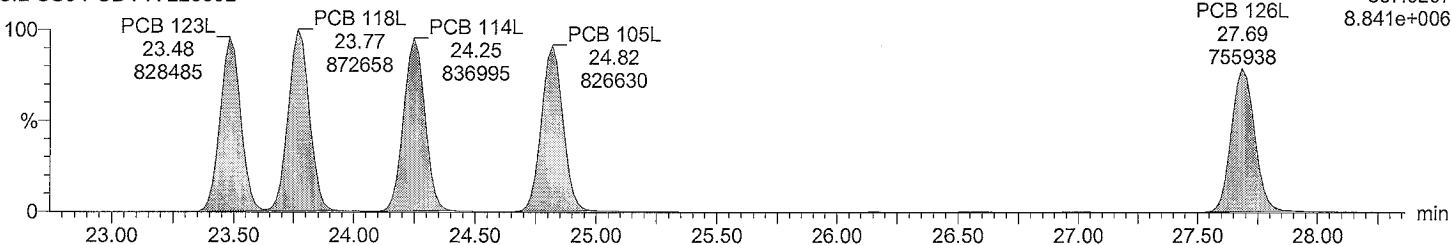
F5:SIR of 14 channels,EI+  
327.8775  
2.933e+006



Total PeCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

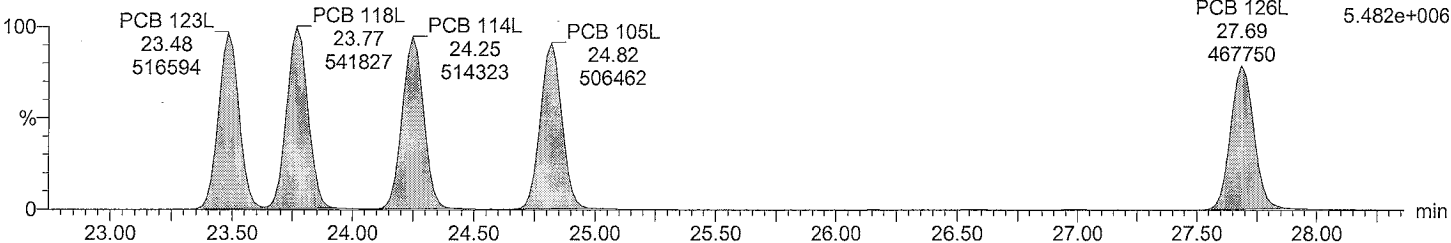
F5:SIR of 14 channels,EI+  
337.9207  
8.841e+006



Total PeCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F5:SIR of 14 channels,EI+  
339.9178  
5.482e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

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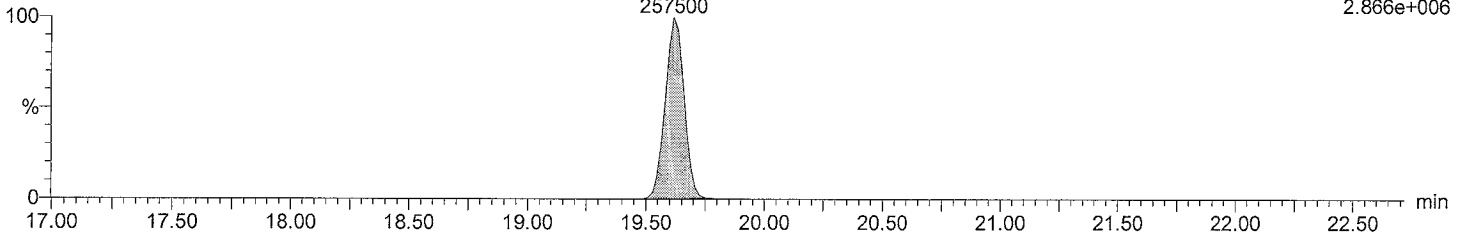
Instrument: Autospec-UltimaE

Total HxCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 155  
19.62  
257500

F4:SIR of 14 channels,EI+  
359.8415  
2.866e+006

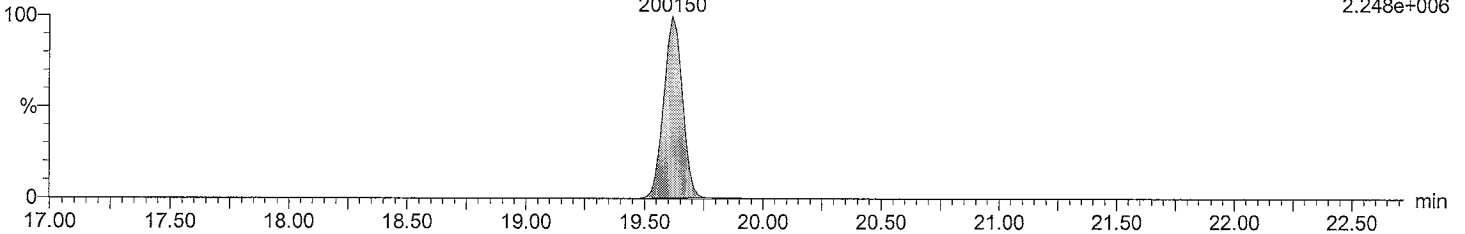


Total HxCB F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 155  
19.62  
200150

F4:SIR of 14 channels,EI+  
361.8385  
2.248e+006

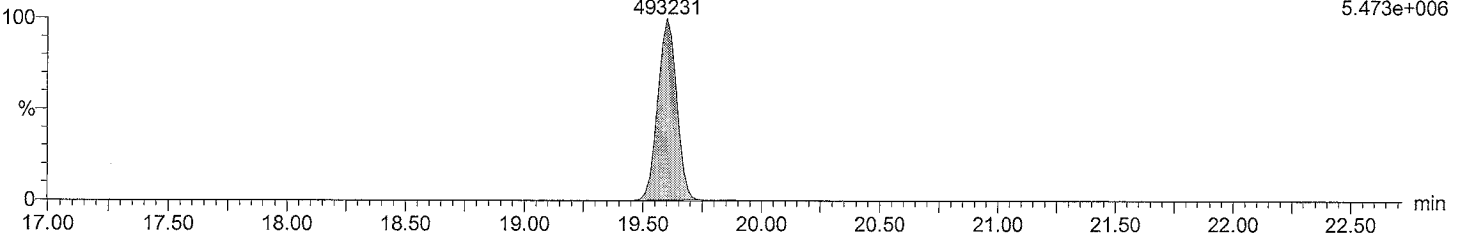


Total HxCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 155L  
19.60  
493231

F4:SIR of 14 channels,EI+  
371.8817  
5.473e+006

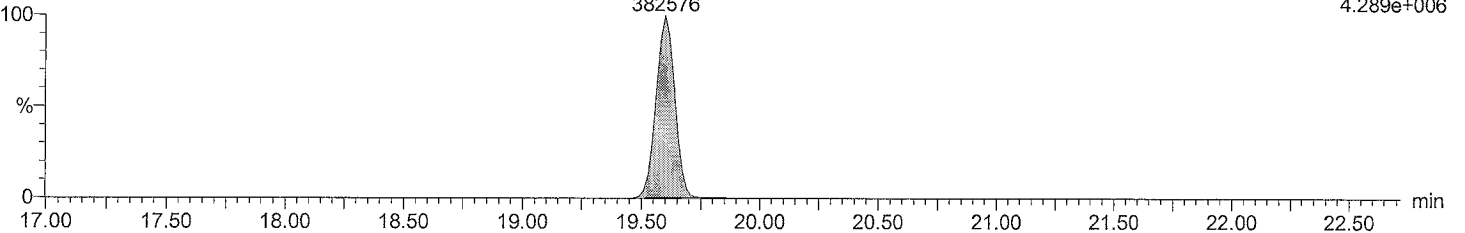


Total HxCB labeled F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 155L  
19.60  
382576

F4:SIR of 14 channels,EI+  
373.8788  
4.289e+006





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Vial: 8

Date: 11-FEB-2016

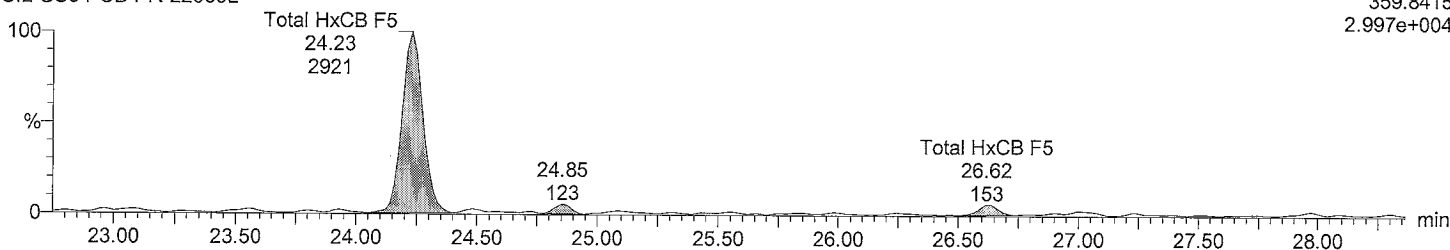
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Total HxCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

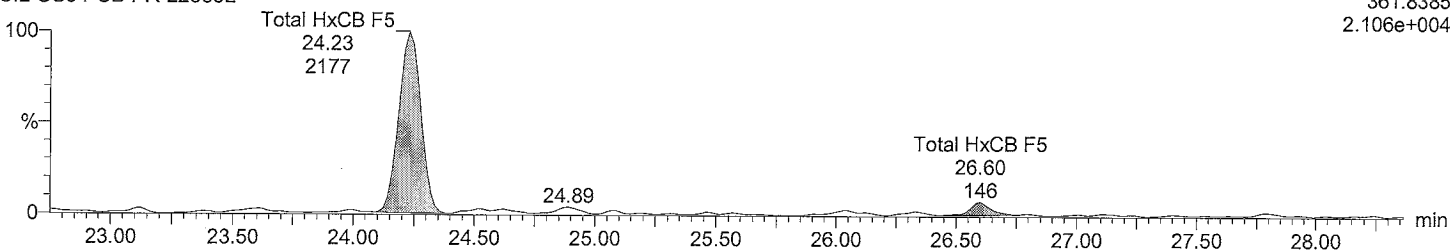
F5:SIR of 14 channels,EI+  
359.8415  
2.997e+004



Total HxCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F5:SIR of 14 channels,EI+  
361.8385  
2.106e+004

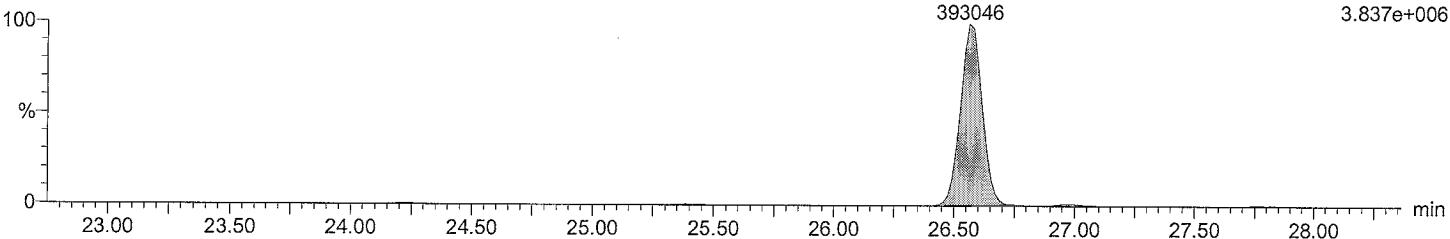


Total HxCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 138L  
26.56  
393046

F5:SIR of 14 channels,EI+  
371.8817  
3.837e+006

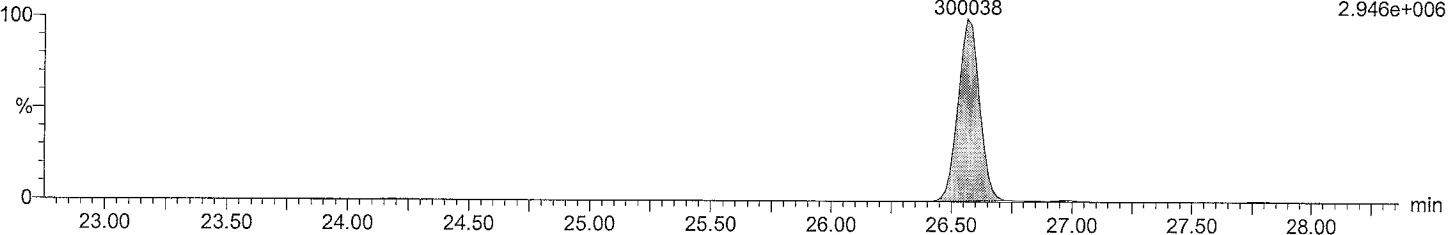


Total HxCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 138L  
26.56  
300038

F5:SIR of 14 channels,EI+  
373.8788  
2.946e+006



Acquired Date

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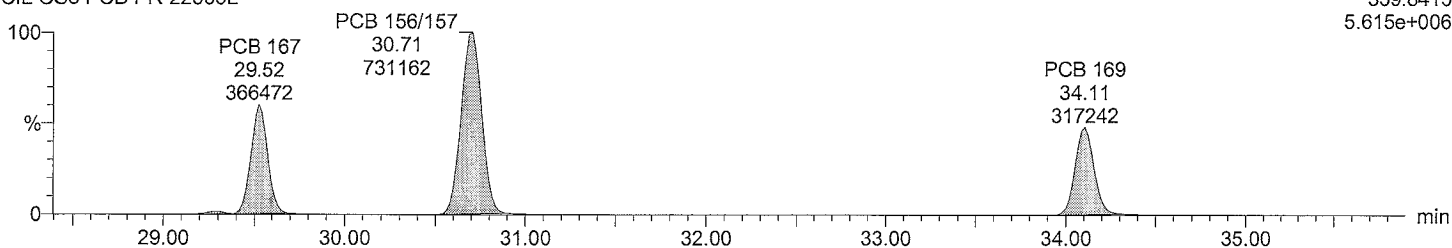
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Total HxCB F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

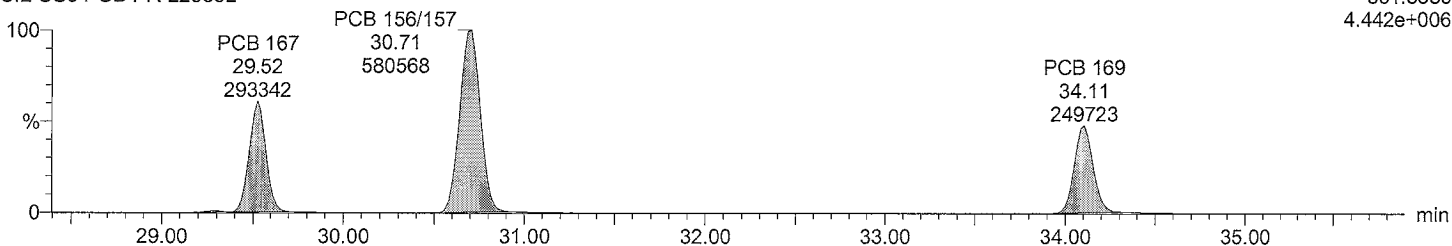
F6:SIR of 14 channels,EI+  
359.8415  
5.615e+006



Total HxCB F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

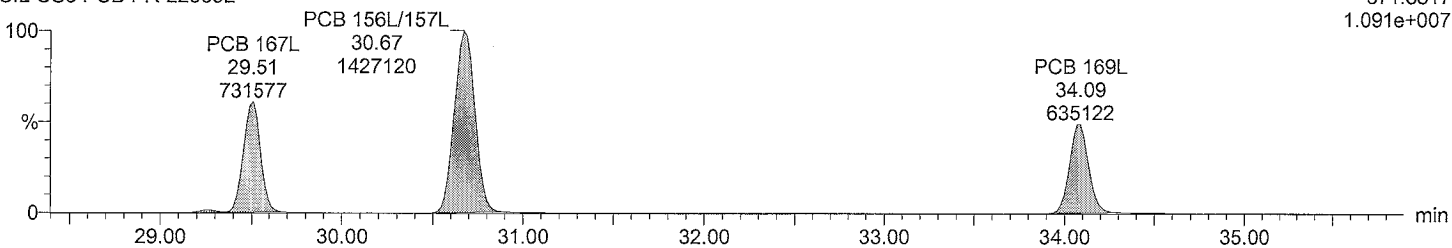
F6:SIR of 14 channels,EI+  
361.8385  
4.442e+006



Total HxCB labeled F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

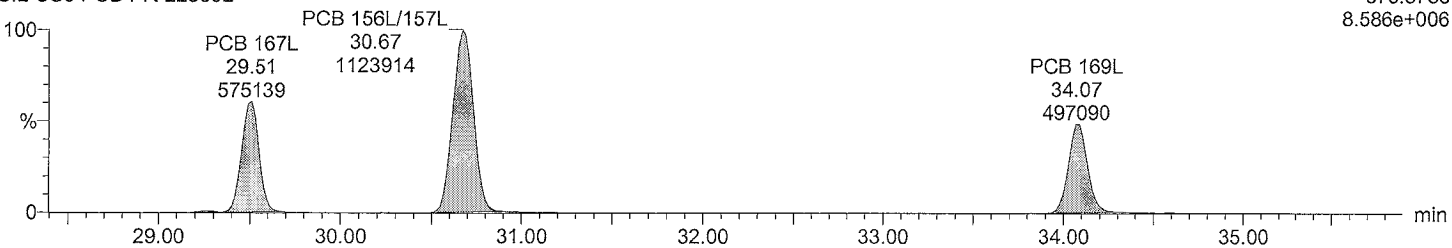
F6:SIR of 14 channels,EI+  
371.8817  
1.091e+007



Total HxCB labeled F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+  
373.8788  
8.586e+006



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Date: 11-FEB-2016

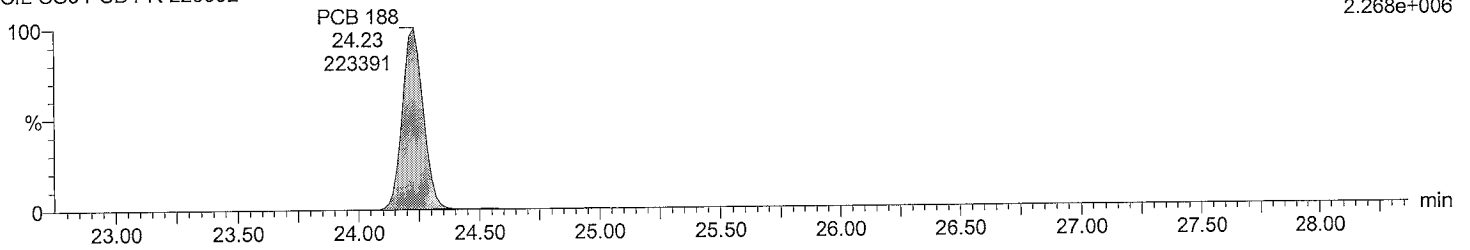
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Total HpCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

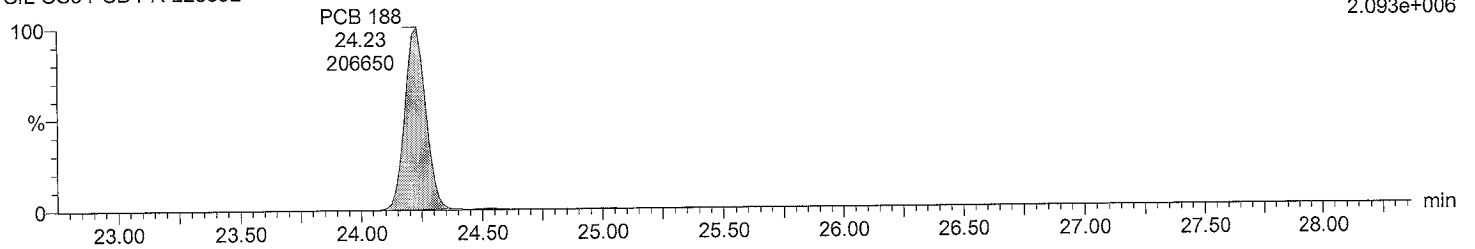
F5:SIR of 14 channels, EI+  
393.8025  
2.268e+006



Total HpCB F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

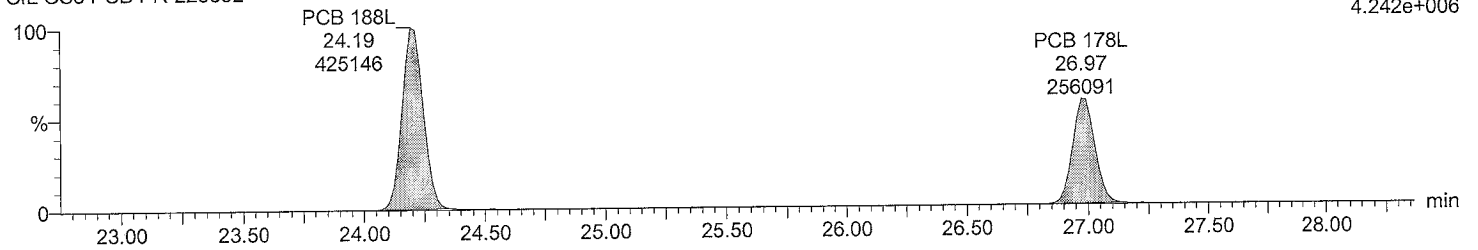
F5:SIR of 14 channels, EI+  
395.7995  
2.093e+006



Total HpCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

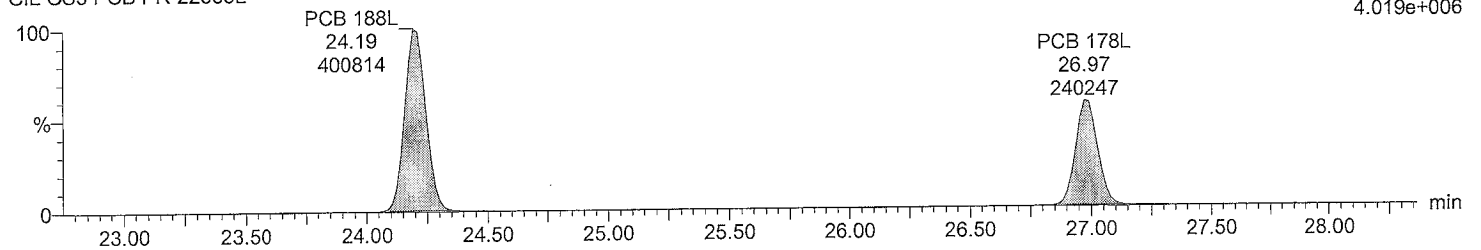
F5:SIR of 14 channels, EI+  
405.8428  
4.242e+006



Total HpCB labeled F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F5:SIR of 14 channels, EI+  
407.8398  
4.019e+006



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Vial: 8

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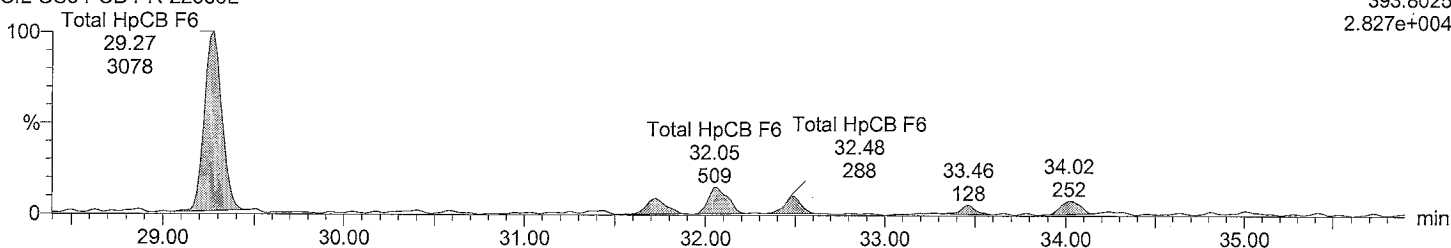
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Instrument: Autospec-UltimaE

Total HpCB F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

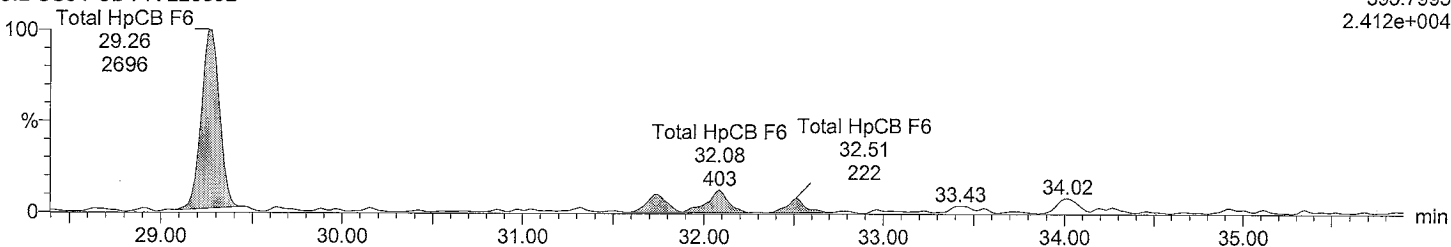
F6:SIR of 14 channels,EI+  
393.8025  
2.827e+004



Total HpCB F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

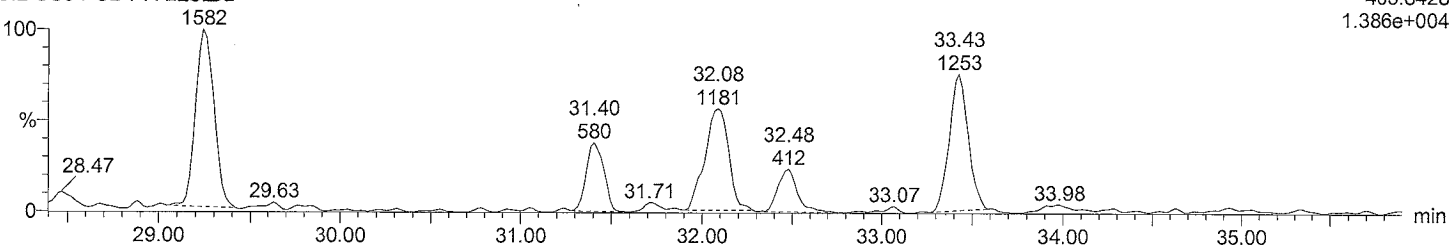
F6:SIR of 14 channels,EI+  
395.7995  
2.412e+004



Total HpCB labeled F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

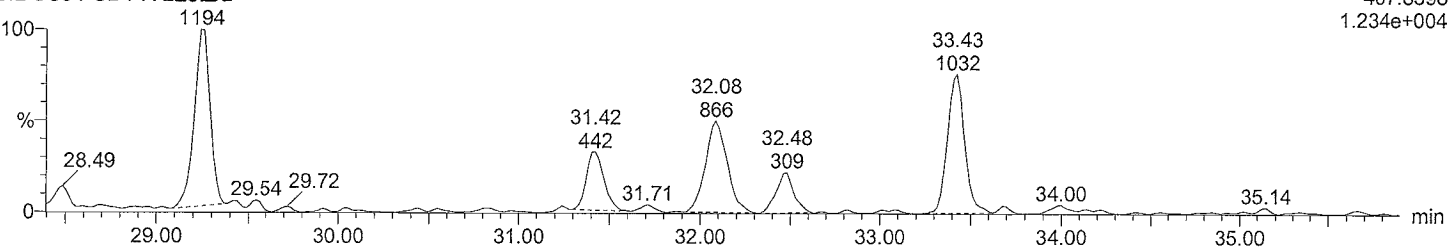
F6:SIR of 14 channels,EI+  
405.8428  
1.386e+004



Total HpCB labeled F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+  
407.8398  
1.234e+004



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Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

Time: 23:44:21

Instrument: Autospec-UltimaE

Total HpCB F7

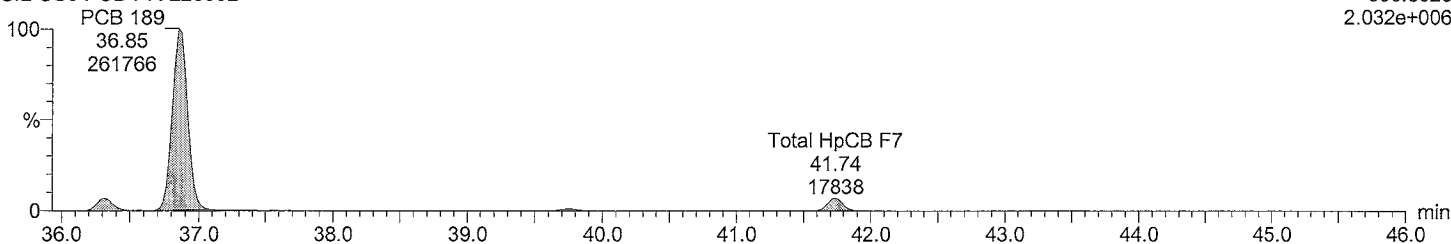
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

393.8025

2.032e+006



Total HpCB F7

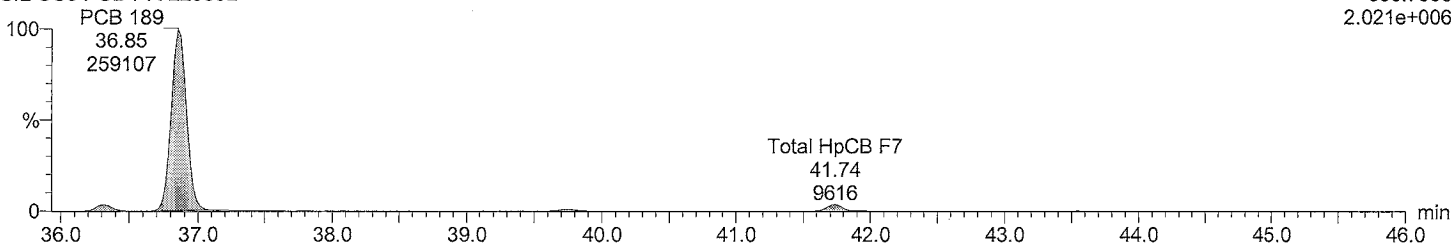
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

395.7995

2.021e+006



Total HpCB labeled F7

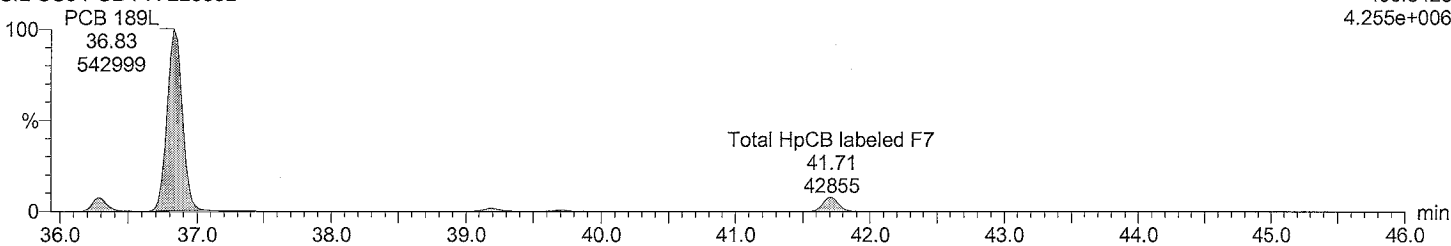
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

405.8428

4.255e+006



Total HpCB labeled F7

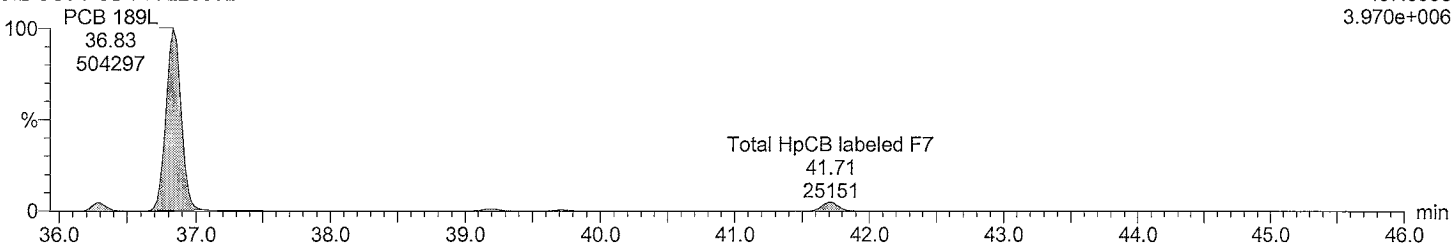
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

407.8398

3.970e+006



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Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

Time: 23:44:21

Instrument: Autospec-UltimaE

Total OcCB F6

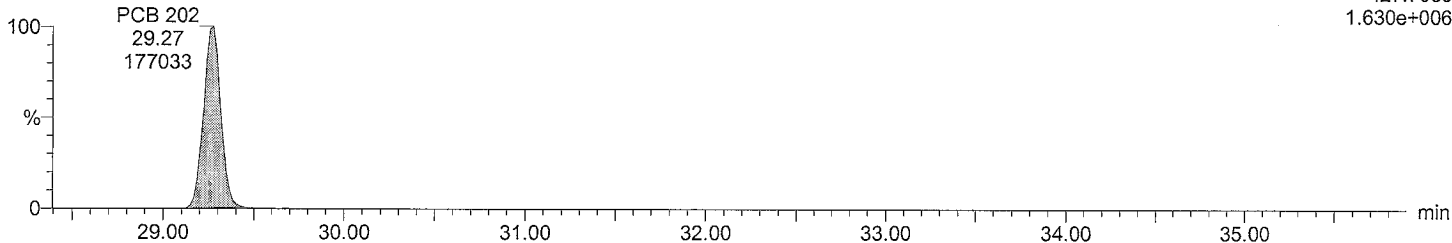
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+

427.7635

1.630e+006



Total OcCB F6

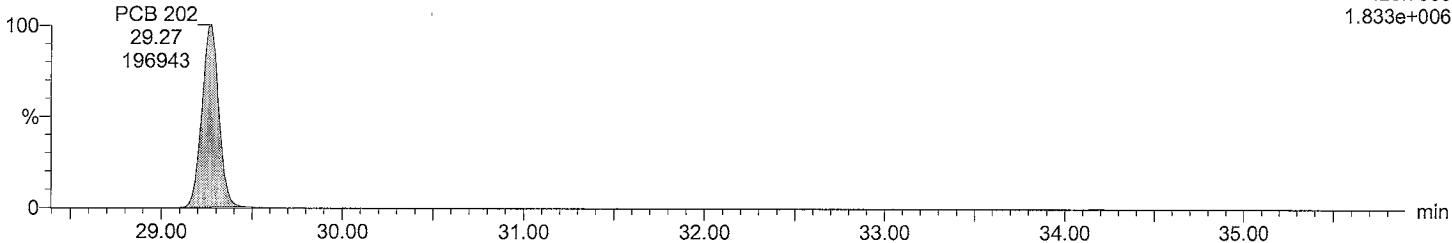
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+

429.7606

1.833e+006



Total OcCB labeled F6

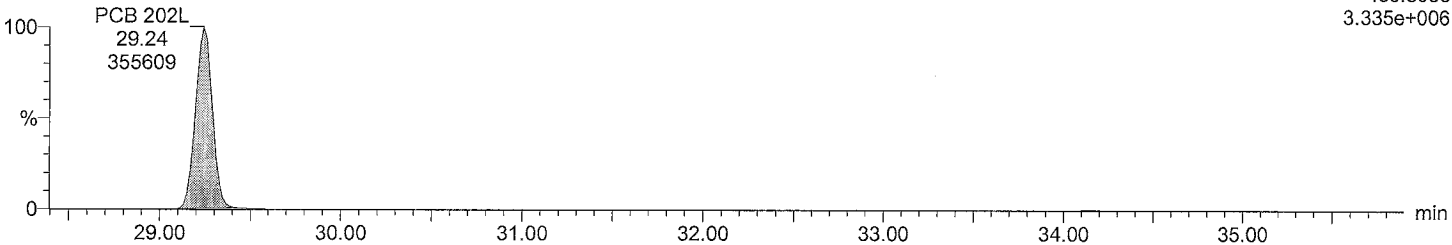
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+

439.8038

3.335e+006



Total OcCB labeled F6

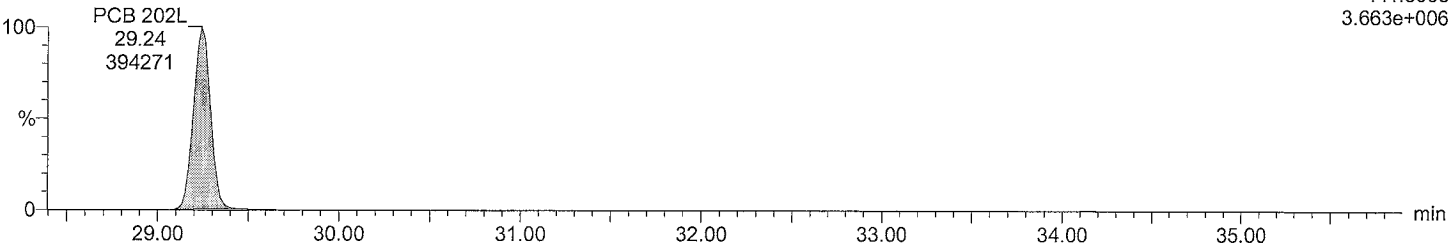
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F6:SIR of 14 channels,EI+

441.8008

3.663e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time  
Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

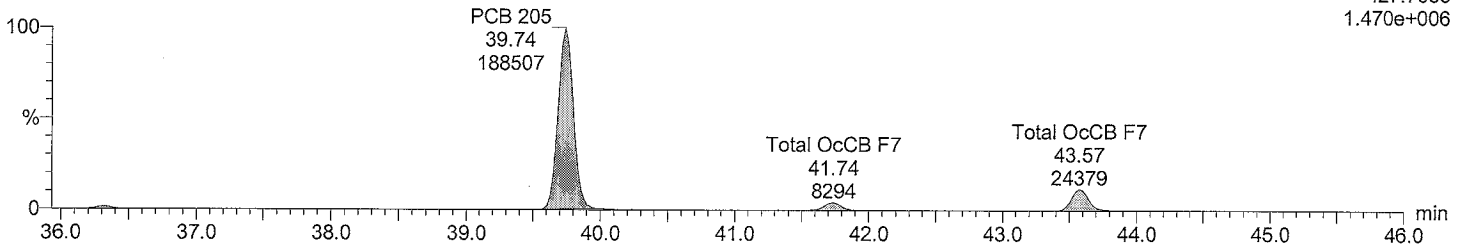
Time: 23:44:21

Instrument: Autospec-UltimaE

Total OcCB F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

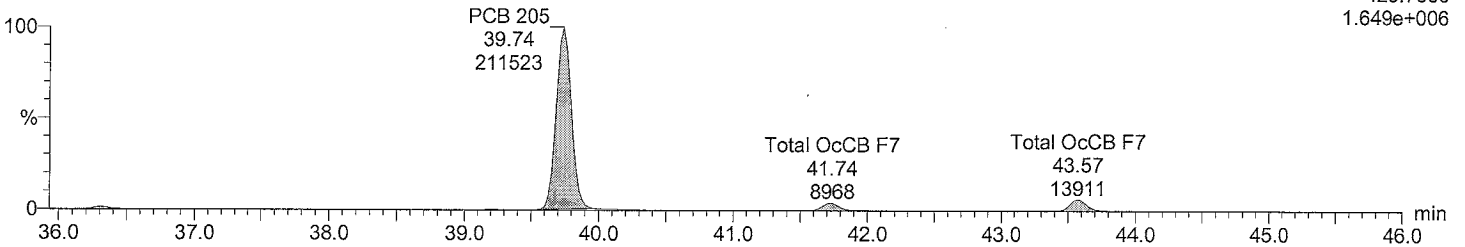
F7:SIR of 18 channels,EI+  
427.7635  
1.470e+006



Total OcCB F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

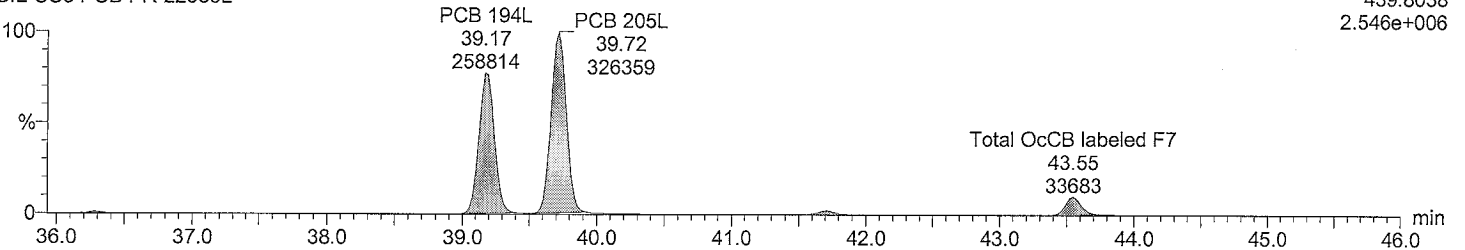
F7:SIR of 18 channels,EI+  
429.7606  
1.649e+006



Total OcCB labeled F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

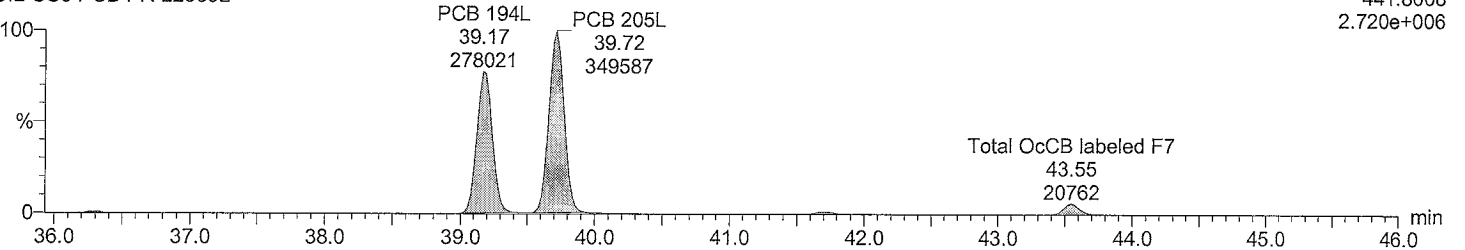
F7:SIR of 18 channels,EI+  
439.8038  
2.546e+006



Total OcCB labeled F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+  
441.8008  
2.720e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

Time: 23:44:21

Instrument: Autospec-UltimaE

Total NoCB F7

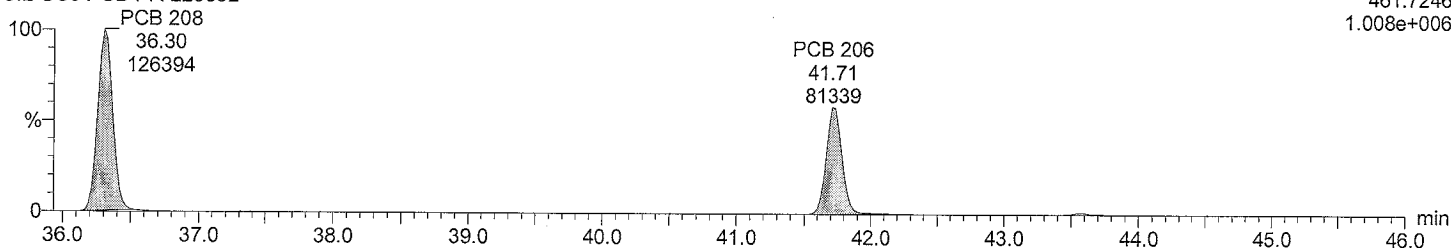
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

461.7246

1.008e+006



Total NoCB F7

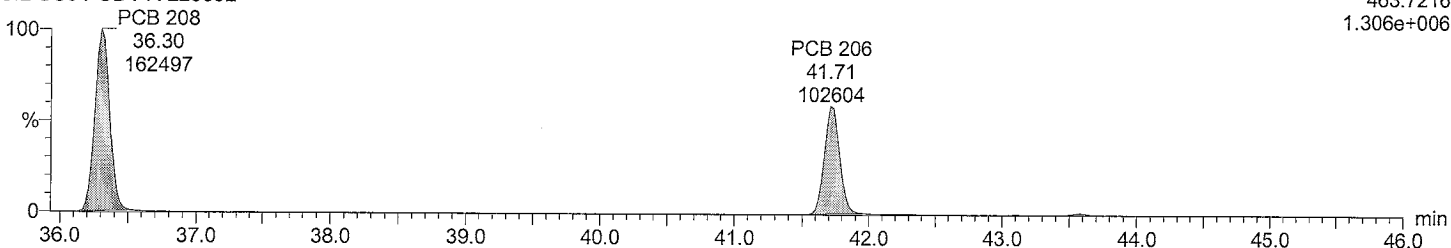
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

463.7216

1.306e+006



Total NoCB labeled F7

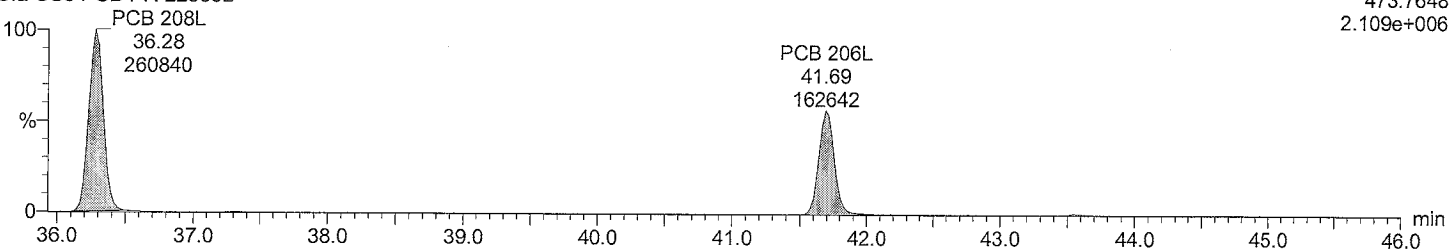
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

473.7648

2.109e+006



Total NoCB labeled F7

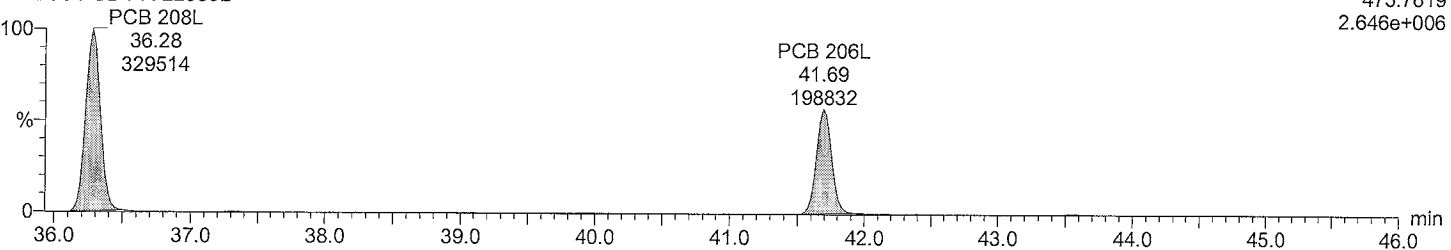
M2160211AS008 Smooth(SG,3x1)

CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+

475.7619

2.646e+006





Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

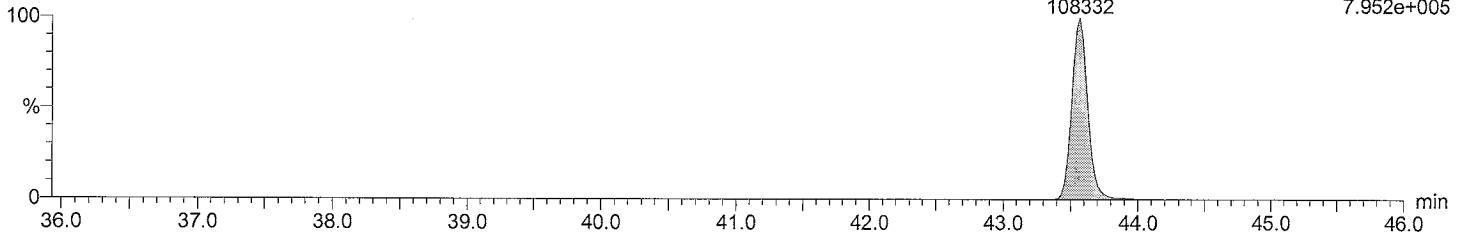
Time: 23:44:21

Instrument: Autospec-UltimaE

Total DeCB F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

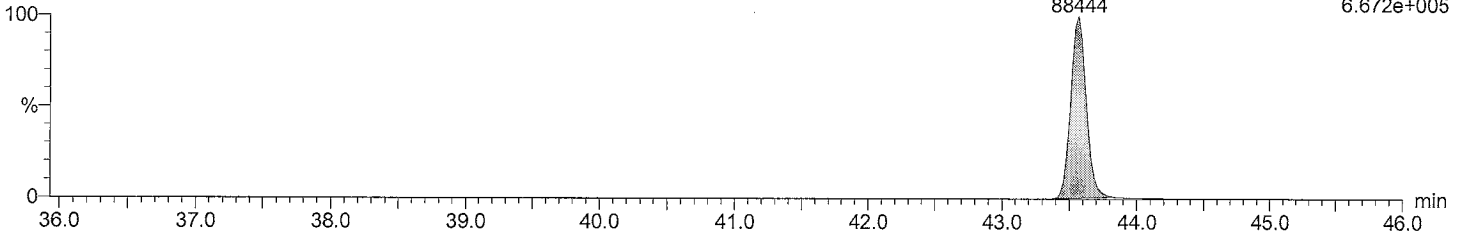
PCB 209 F7:SIR of 18 channels,EI+  
43.57 497.6826  
108332 7.952e+005



Total DeCB F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

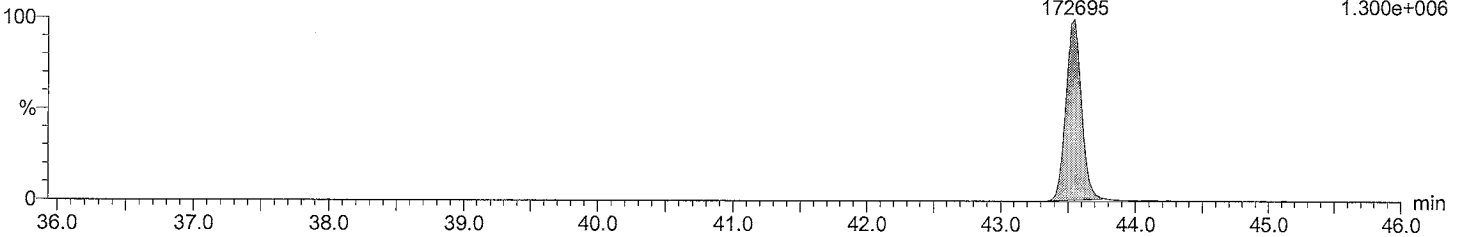
PCB 209 F7:SIR of 18 channels,EI+  
43.57 499.6797  
88444 6.672e+005



Total DeCB labeled F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

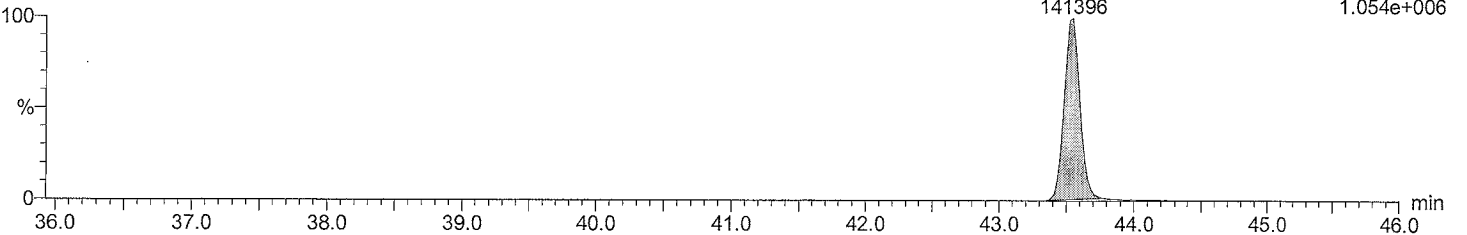
PCB 209L F7:SIR of 18 channels,EI+  
43.55 509.7229  
172695 1.300e+006



Total DeCB labeled F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

PCB 209L F7:SIR of 18 channels,EI+  
43.55 511.7199  
141396 1.054e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

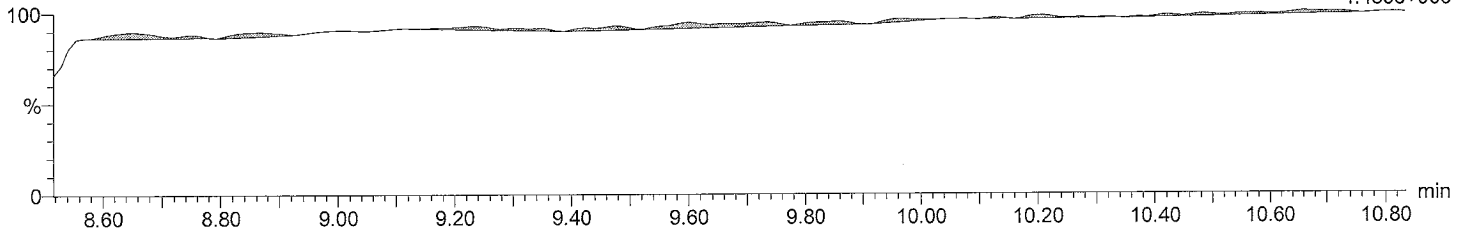
Time: 23:44:21

Instrument: Autospec-UltimaE

lockmass F1

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F1:SIR of 10 channels,EI+  
218.9856  
4.435e+006

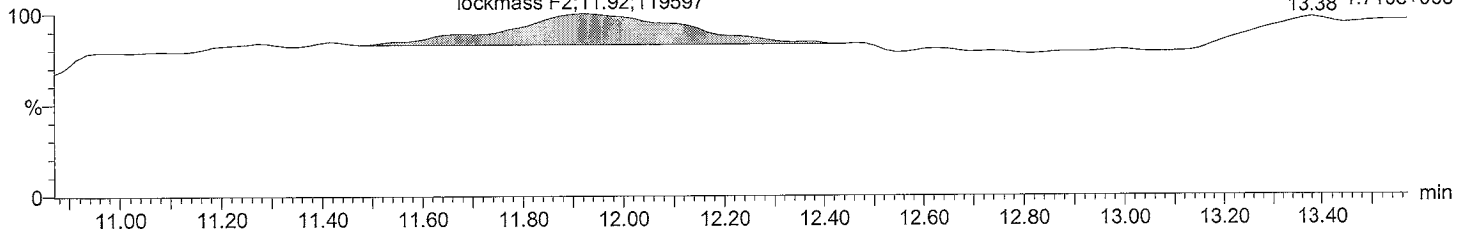


lockmass F2

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F2:SIR of 16 channels,EI+  
242.9856  
13.38 1.710e+006

lockmass F2;11.92;119597



lockmass F3

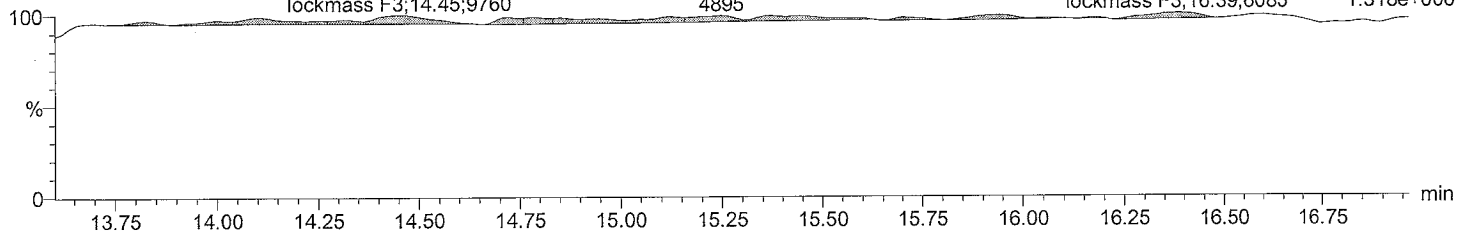
M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

lockmass F3  
15.25  
4895

F3:SIR of 14 channels,EI+  
292.9824  
1.318e+006

lockmass F3;14.45;9760

lockmass F3;16.39;6085



lockmass F4

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

lockmass F4  
20.88  
16491

F4:SIR of 14 channels,EI+  
330.9792  
1.985e+006

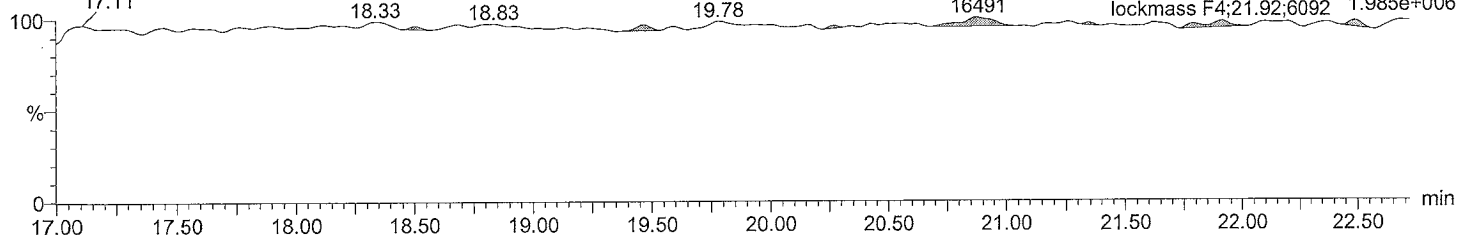
17.11

18.33

18.83

19.78

lockmass F4;21.92;6092



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Description: CIL CS3 PCB PR-22535L

Vial: 8

Date: 11-FEB-2016

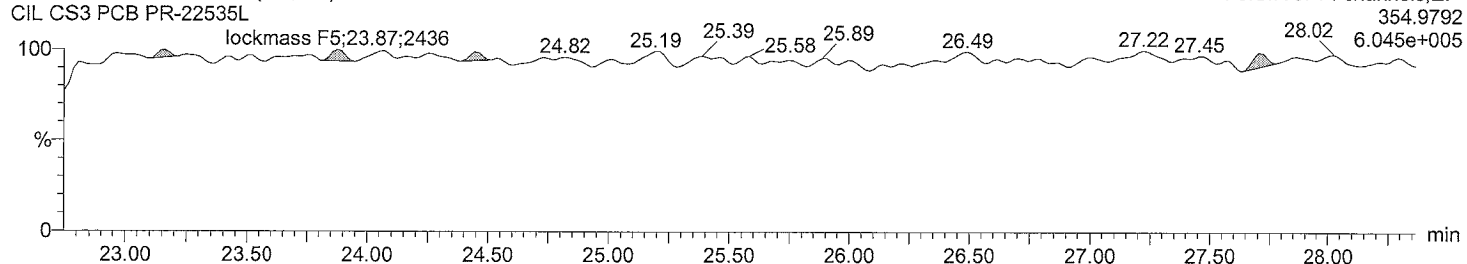
Time: 23:44:21

Instrument: Autospec-UltimaE

lockmass F5

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

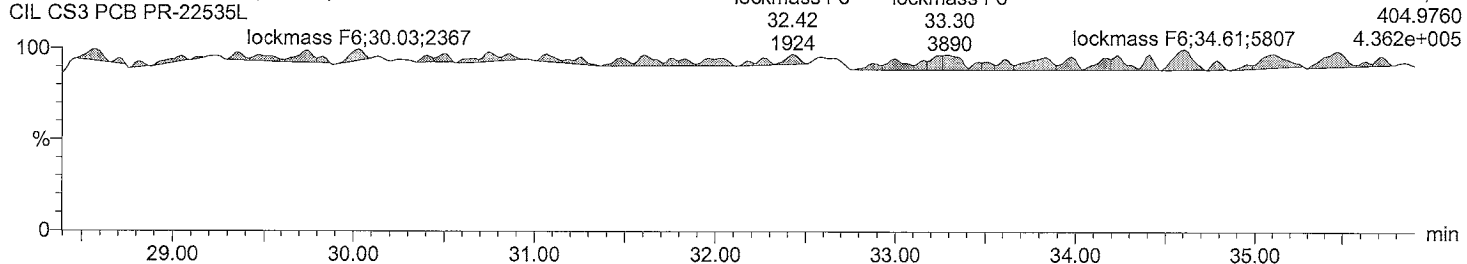
F5:SIR of 14 channels,EI+



lockmass F6

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

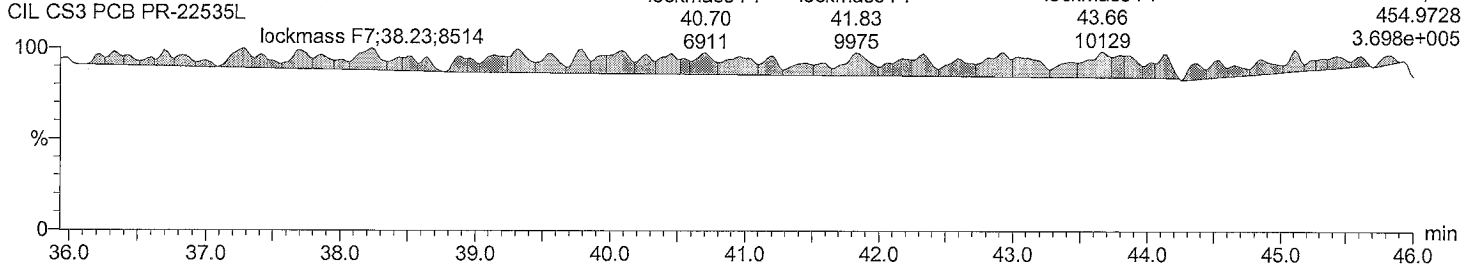
F6:SIR of 14 channels,EI+



lockmass F7

M2160211AS008 Smooth(SG,3x1)  
CIL CS3 PCB PR-22535L

F7:SIR of 18 channels,EI+



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_sec\_source\_5PT.qld

Last Altered: February 16, 2016 8:09:40 AM Eastern Standard Time

Printed: February 16, 2016 8:10:17 AM Eastern Standard Time

Date	Time	Event	RT	Details	Comments
16-Feb-16	08:08:44	Process Integrate			
16-Feb-16	08:08:44	Process Quantify			
16-Feb-16	08:08:44	Dataset Created			
16-Feb-16	08:09:19	Peak deleted	33.426	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	32.478	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	32.084	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	31.422	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	29.238	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	33.426	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	32.478	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	32.084	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	31.404	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:19	Peak deleted	29.238	Sample:M2160211AS008, Compound:Total HpC...	
16-Feb-16	08:09:31	Peak deleted	24.871	Sample:M2160211AS008, Compound:Total HxC...	
16-Feb-16	08:09:31	Peak deleted	24.854	Sample:M2160211AS008, Compound:Total HxC...	
16-Feb-16	08:09:39	Peak deleted	25.406	Sample:M2160211AS008, Compound:Total HxC...	
16-Feb-16	08:09:39	Peak deleted	25.406	Sample:M2160211AS008, Compound:Total HxC...	
16-Feb-16	08:10:13	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M21602...	

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

Date	Time	Event	RT	Details	Comments
16-Feb-16	08:03:14	Process Integrate			
16-Feb-16	08:03:15	Process Calibrate			
16-Feb-16	08:03:15	Process Quantify			
16-Feb-16	08:03:15	Dataset Created			
16-Feb-16	08:04:58	Dataset Saved			Saved to 'C:\MassLynx\Default.pro\QLD\M21602...

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:34 AM Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668\_M2160211A.mdb 16 Feb 2016 10:09:59

Calibration: 16 Feb 2016 10:34:51

ID:

Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Description: 209MIX\_PCB 150822CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1 PCB 1	8.99	1.001	296276	89613	3.31	YES	bb	25.902	3.6	104	165	1.121
2 PCB 2	10.09	0.991	320237	97137	3.30	YES	bd	25.000	0.0	100		1.218
3 PCB 3	10.17	1.000	287552	88021	3.27	YES	dd	25.519	2.1	102	166	1.101
4 PCB 4	10.29	1.000	145928	84310	1.73	YES	bd	26.795	7.2	107	167	1.022
5 PCB 10	10.37	1.008	247903	160745	1.54	YES	db	25.000	-0.0	100		1.148
6 PCB 9	11.18	1.087	283853	184654	1.54	YES	bd	25.000	0.0	100		1.317
7 PCB 7	11.27	1.096	247139	157861	1.57	YES	dd	25.000	0.0	100		1.138
8 PCB 6	11.35	1.104	289526	185588	1.56	YES	dd	25.000	0.0	100		1.335
9 PCB 5	11.50	1.118	224381	149025	1.51	YES	MM	25.000	0.0	100		1.049
10 PCB 8	11.54	1.122	310382	201650	1.54	YES	MM	25.000	0.0	100		1.439
11 PCB 14	12.25	0.948	283111	185762	1.52	YES	bd	25.000	0.0	100		1.318
12 PCB 11	12.65	0.979	271532	174821	1.55	YES	dd	25.000	0.0	100		1.254
13 PCB 13/12	12.80	0.990	523795	333731	1.57	YES	dd	50.000	0.0	100		1.205
14 PCB 15	12.94	1.002	280354	191100	1.47	YES	ds	27.833	11.3	111	168	0.969
15 PCB 19	11.67	1.000	114013	110411	1.03	YES	bb	26.559	6.2	106	169	0.955
16 PCB 30/18	12.48	1.070	329867	321493	1.03	YES	bd	50.000	0.0	100		0.997
17 PCB 17	12.69	1.088	138660	133920	1.04	YES	dd	25.000	0.0	100		0.835
18 PCB 27	12.77	1.095	212201	204447	1.04	YES	dd	25.000	0.0	100		1.276
19 PCB 24	12.86	1.102	175959	173105	1.02	YES	MM	25.000	0.0	100		1.069
20 PCB 16	12.90	1.106	105185	97320	1.08	YES	MM	25.000	0.0	100		0.620
21 PCB 32	13.13	1.125	235215	224335	1.05	YES	db	25.000	0.0	100		1.407
22 PCB 34	13.73	1.177	253286	252267	1.00	YES	bd	25.000	0.0	100		1.548
23 PCB 23	13.82	1.185	206352	198717	1.04	YES	dd	25.000	0.0	100		1.240
24 PCB 26/29	13.98	1.199	500326	487601	1.03	YES	dd	50.000	0.0	100		1.513
25 PCB 25	14.09	0.845	282390	276158	1.02	YES	dd	25.000	0.0	100		1.710
26 PCB 31	14.25	0.855	283633	276147	1.03	YES	dd	25.000	0.0	100		1.714
27 PCB 28/20	14.42	0.865	507228	505030	1.00	YES	dd	50.000	0.0	100		1.550
28 PCB 21/33	14.52	0.871	543992	535233	1.02	YES	MM	50.000	0.0	100		1.652
29 PCB 22	14.76	0.885	222569	218733	1.02	YES	db	25.000	0.0	100		1.351
30 PCB 36	15.59	0.935	293133	286361	1.02	YES	dd	25.000	0.0	100		1.775
31 PCB 39	15.81	0.948	227136	222894	1.02	YES	dd	25.000	0.0	100		1.378
32 PCB 38	16.17	0.970	228352	219281	1.04	YES	MM	25.000	0.0	100		1.371
33 PCB 35	16.44	0.986	216300	214637	1.01	YES	MM	25.000	0.0	100		1.320
34 PCB 37	16.69	1.001	190346	187032	1.02	YES	db	24.924	-0.3	100	170	0.903
35 PCB 54	13.07	1.002	271180	347838	0.78	YES	bb	55.896	11.8	112	171	1.018
36 PCB 53/50	14.11	1.082	529260	676422	0.78	YES	bd	100.000	0.0	100		0.788
37 PCB 45/51	14.47	1.109	512340	658790	0.78	YES	dd	100.000	0.0	100		0.766
38 PCB 46	14.63	1.122	229668	289209	0.79	YES	db	50.000	-0.0	100		0.679
39 PCB 52	15.37	1.178	235116	310812	0.76	YES	MM	50.000	0.0	100		0.714
40 PCB 73	15.45	1.184	340077	439910	0.77	YES	MM	50.000	0.0	100		1.020
41 PCB 43	15.52	1.190	178425	229871	0.78	YES	MM	50.000	0.0	100		0.534
42 PCB 69/49	15.63	1.198	590950	752882	0.78	YES	dd	100.000	0.0	100		0.879
43 PCB 48	15.83	1.213	225054	293111	0.77	YES	dd	50.000	0.0	100		0.678
44 PCB 44/47/65	15.97	1.224	784802	1004618	0.78	YES	dd	150.000	0.0	100		0.780

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:34 AM Eastern Standard Time

ID:

Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Description: 209MIX\_PCB 150822CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45	PCB 59/62/75	16.15	1.238	979189	1259296	0.78	YES	dd	150.000	0.0	100		0.976
46	PCB 42	16.28	1.248	214844	271690	0.79	YES	dd	50.000	0.0	100		0.636
47	PCB 40/41/71	16.57	1.270	692837	890555	0.78	YES	dd	150.000	0.0	100		0.690
48	PCB 64	16.71	1.281	302682	382397	0.79	YES	db	50.000	0.0	100		0.896
49	PCB 72	17.19	0.804	358215	472833	0.76	YES	bd	50.000	0.0	100		1.087
50	PCB 68	17.39	0.813	353614	467702	0.76	YES	dd	50.000	-0.0	100		1.074
51	PCB 57	17.68	0.826	417400	558946	0.75	YES	dd	50.000	0.0	100		1.277
52	PCB 58	17.82	0.833	363141	489343	0.74	YES	dd	50.000	0.0	100		1.115
53	PCB 67	17.94	0.838	499040	658061	0.76	YES	dd	50.000	0.0	100		1.513
54	PCB 63	18.12	0.847	461691	604876	0.76	YES	dd	50.000	0.0	100		1.395
55	PCB 61/70/74/76	18.35	0.858	1613636	2115544	0.76	YES	dd	200.000	0.0	100		1.219
56	PCB 66	18.57	0.868	441765	609451	0.72	YES	dd	50.000	0.0	100		1.375
57	PCB 55	18.69	0.873	383456	506446	0.76	YES	MM	50.000	0.0	100		1.164
58	PCB 56	19.05	0.890	367515	490066	0.75	YES	dd	50.000	0.0	100		1.121
59	PCB 60	19.23	0.898	382651	500680	0.76	YES	dd	50.000	0.0	100		1.155
60	PCB 80	19.46	0.909	474853	629666	0.75	YES	ds	50.000	0.0	100		1.444
61	PCB 79	20.61	0.963	511862	679784	0.75	YES	db	50.000	0.0	100		1.558
62	PCB 78	21.06	0.984	430243	573337	0.75	YES	bs	50.000	0.0	100		1.312
63	PCB 81	21.42	1.001	441347	575699	0.77	YES	MM	57.778	15.6	116	172	1.187
64	PCB 77	21.88	1.002	378299	498574	0.76	YES	ds	49.098	-1.8	98	173	1.058
65	PCB 104	15.93	1.001	336694	209987	1.60	YES	bd	48.608	-2.8	97	174	1.064
66	PCB 96	16.15	1.015	368393	231497	1.59	YES	db	50.000	0.0	100		0.800
67	PCB 103	17.32	1.088	292481	185124	1.58	YES	bd	50.000	0.0	100		0.637
68	PCB 94	17.46	1.097	226441	140409	1.61	YES	dd	50.000	0.0	100		0.489
69	PCB 95	17.75	1.115	305721	188647	1.62	YES	dd	50.000	0.0	100		0.659
70	PCB 100/93/102/98	17.91	1.125	1108967	686325	1.62	YES	MM	200.000	-0.0	100		0.598
71	PCB 88/91	18.32	1.151	561765	349585	1.61	YES	dd	100.000	0.0	100		0.607
72	PCB 84	18.49	1.162	244239	153472	1.59	YES	dd	50.000	0.0	100		0.530
73	PCB 89	18.83	1.183	273959	172011	1.59	YES	dd	50.000	0.0	100		0.595
74	PCB 121	19.08	1.199	360619	229259	1.57	YES	dd	50.000	0.0	100		0.786
75	PCB 92	19.35	1.216	292511	181387	1.61	YES	db	50.000	0.0	100		0.632
76	PCB 113/90/101	19.78	1.243	1016343	636311	1.60	YES	MM	150.000	0.0	100		0.734
77	PCB 83/99	20.22	1.271	560052	350511	1.60	YES	MM	100.000	0.0	100		0.607
78	PCB 112	20.33	1.277	377697	233737	1.62	YES	MM	50.000	0.0	100		0.815
79	PCB 109/119/86/97/...	20.61	1.295	2003001	1259975	1.59	YES	MM	300.000	0.0	100		0.725
80	PCB 117/116/85	21.20	1.332	1037223	654070	1.59	YES	MM	150.000	0.0	100		0.752
81	PCB 110/115	21.38	1.343	679202	422416	1.61	YES	dd	100.000	0.0	100		0.734
82	PCB 82	21.58	1.356	256720	159957	1.60	YES	dd	50.000	0.0	100		0.555
83	PCB 111	21.86	1.374	372727	231490	1.61	YES	dd	50.000	0.0	100		0.806
84	PCB 120	22.24	1.397	429569	266199	1.61	YES	dd	50.000	0.0	100		0.928
85	PCB 108/124	23.20	0.988	1082552	691842	1.56	YES	dd	100.000	0.0	100		1.183
86	PCB 107	23.41	0.997	548094	352780	1.55	YES	MM	50.000	-0.0	100		1.201
87	PCB 123	23.50	1.001	527116	333789	1.58	YES	MM	57.022	14.0	114	175	1.020
88	PCB 106	23.62	1.006	604962	384194	1.57	YES	dd	50.000	0.0	100		1.319
89	PCB 118	23.78	1.001	508097	322140	1.58	YES	dd	51.316	2.6	103	176	1.007
90	PCB 122	24.09	1.013	514956	327884	1.57	YES	dd	50.000	0.0	100		1.124
91	PCB 114	24.27	1.001	527948	336483	1.57	YES	dd	55.464	10.9	111	177	1.121
92	PCB 105	24.84	1.001	579937	369411	1.57	YES	ds	60.975	22.0	122	178	1.191

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Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Description: 209MIX\_PCB 150822CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93 PCB 127	26.17	0.945	571279	359981	1.59	YES	dd	50.000	-0.0	100		1.241
94 PCB 126	27.70	1.001	495849	314027	1.58	YES	bd	54.252	8.5	109	179	1.060
95 PCB 155	19.62	1.001	293473	226399	1.30	YES	bd	52.441	4.9	105	180	1.045
96 PCB 152	19.80	1.010	325676	254299	1.28	YES	dd	50.000	0.0	100		0.840
97 PCB 150	19.90	1.015	266820	203089	1.31	YES	dd	50.000	0.0	100		0.681
98 PCB 136	20.17	1.029	303402	232266	1.31	YES	dd	50.000	0.0	100		0.776
99 PCB 145	20.40	1.041	261645	203215	1.29	YES	db	50.000	0.0	100		0.674
100 PCB 148	21.54	1.099	222415	172650	1.29	YES	bb	50.000	0.0	100		0.572
101 PCB 151/135	22.04	1.125	405035	315855	1.28	YES	bd	100.000	0.0	100		0.522
102 PCB 154	22.24	1.135	246729	191678	1.29	YES	dd	50.000	0.0	100		0.635
103 PCB 144	22.50	1.148	218037	167531	1.30	YES	db	50.000	0.0	100		0.559
104 PCB 147/149	22.80	1.164	546997	417717	1.31	YES	MM	100.000	0.0	100		0.699
105 PCB 134/143	23.04	1.175	521168	397368	1.31	YES	MM	100.000	-0.0	100		0.665
106 PCB 139/140	23.30	1.189	590562	451253	1.31	YES	bd	100.000	0.0	100		0.755
107 PCB 131	23.48	1.198	246688	188197	1.31	YES	dd	50.000	0.0	100		0.630
108 PCB 142	23.64	1.206	262080	203372	1.29	YES	dd	50.000	0.0	100		0.674
109 PCB 132	23.87	1.218	240779	183705	1.31	YES	db	50.000	0.0	100		0.615
110 PCB 133	24.30	1.240	287669	220861	1.30	YES	bd	50.000	0.0	100		0.737
111 PCB 165	24.66	0.836	332716	254341	1.31	YES	dd	50.000	0.0	100		0.851
112 PCB 146	24.87	0.843	327169	232637	1.41	YES	dd	50.000	0.0	100		0.811
113 PCB 161	25.00	0.847	396187	324954	1.22	YES	dd	50.000	0.0	100		1.045
114 PCB 153/168	25.46	0.863	727389	564027	1.29	YES	dd	100.000	0.0	100		0.936
115 PCB 141	25.62	0.868	291153	224572	1.30	YES	ds	50.000	0.0	100		0.747
116 PCB 130	25.99	0.881	259792	200252	1.30	YES	dd	50.000	0.0	100		0.667
117 PCB 137	26.21	0.888	247905	192034	1.29	YES	MM	50.000	0.0	100		0.637
118 PCB 164	26.30	0.891	401256	306014	1.31	YES	MM	50.000	0.0	100		1.025
119 PCB 138/163/129	26.62	0.902	884538	687862	1.29	YES	dd	150.000	0.0	100		0.759
120 PCB 160	26.78	0.907	346262	264554	1.31	YES	dd	50.000	0.0	100		0.885
121 PCB 158	26.97	0.914	419855	319446	1.31	YES	db	50.000	0.0	100		1.071
122 PCB 128/166	27.79	0.942	641105	491686	1.30	YES	dd	100.000	0.0	100		0.821
123 PCB 159	28.77	0.975	501658	392711	1.28	YES	MM	50.000	-0.0	100		1.296
124 PCB 162	29.04	0.984	468044	367442	1.27	YES	MM	50.000	0.0	100		1.211
125 PCB 167	29.52	1.001	511452	411975	1.24	YES	bd	60.189	20.4	120	181	1.139
126 PCB 156/157	30.71	1.001	910252	728164	1.25	YES	MM	110.748	10.7	111	182	1.126
127 PCB 169	34.11	1.001	411962	314896	1.31	YES	bb	52.526	5.1	105	183	1.003
128 PCB 188	24.23	1.001	255022	239463	1.06	YES	bd	51.206	2.4	102	184	1.036
129 PCB 179	24.53	1.014	274623	258146	1.06	YES	dd	50.000	0.0	100		1.115
130 PCB 184	25.00	1.033	257826	242321	1.06	YES	dd	50.000	0.0	100		1.047
131 PCB 176	25.32	1.046	273281	254545	1.07	YES	dd	50.000	0.0	100		1.105
132 PCB 186	25.74	1.064	233537	221737	1.05	YES	db	50.000	0.0	100		0.953
133 PCB 178	27.01	1.116	187958	176583	1.06	YES	bb	50.000	0.0	100		0.763
134 PCB 175	27.61	1.141	189911	178446	1.06	YES	bd	50.000	0.0	100		0.771
135 PCB 187	27.88	1.152	188372	176273	1.07	YES	dd	50.000	0.0	100		0.763
136 PCB 182	28.08	1.161	192761	178047	1.08	YES	db	50.000	0.0	100		0.776
137 PCB 183	28.49	0.887	313454	292171	1.07	YES	MM	50.000	0.0	100		1.268
138 PCB 185	28.58	0.890	239317	219246	1.09	YES	MM	50.000	0.0	100		0.960
139 PCB 174	28.72	0.895	277689	247601	1.12	YES	MM	50.000	0.0	100		1.100
140 PCB 177	29.15	0.908	262513	245469	1.07	YES	bd	50.000	0.0	100		1.063



Acquired Date

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Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Description: 209MIX\_PCB 150822CXU

# Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
141 PCB 181	29.56	0.921	244918	226731	1.08	YES	dd	50.000	0.0	100		0.987
142 PCB 171/173	29.78	0.928	520598	481917	1.08	YES	dd	100.000	0.0	100		1.049
143 PCB 172	31.44	0.979	252696	232353	1.09	YES	dd	50.000	0.0	100		1.015
144 PCB 192	31.74	0.989	285300	268317	1.06	YES	dd	50.000	0.0	100		1.159
145 PCB 193/180	32.08	0.999	618719	574616	1.08	YES	dd	100.000	0.0	100	185	1.422
146 PCB 191	32.50	1.012	348071	321449	1.08	YES	db	50.000	0.0	100		1.401
147 PCB 170	33.44	1.001	240567	224438	1.07	YES	bd	50.959	1.9	102	186	1.295
148 PCB 190	34.02	1.018	332560	311108	1.07	YES	ds	50.000	0.0	100		1.347
149 PCB 189	36.85	1.001	317979	314145	1.01	YES	dd	51.119	2.2	102	187	0.965
150 PCB 202	29.26	1.001	301117	335383	0.90	YES	bb	75.522	0.7	101	188	0.994
151 PCB 201	30.20	1.033	352140	395333	0.89	YES	bb	75.000	0.0	100		1.111
152 PCB 204	30.88	1.056	347061	384489	0.90	YES	bd	75.000	0.0	100		1.087
153 PCB 197	31.12	1.064	299243	336984	0.89	YES	dd	75.000	0.0	100		0.945
154 PCB 200	31.22	1.068	365375	407455	0.90	YES	db	75.000	0.0	100		1.148
155 PCB 198/199	34.18	1.169	440998	490641	0.90	YES	bb	150.000	0.0	100		0.692
156 PCB 196	34.91	0.879	227318	252188	0.90	YES	bd	75.000	0.0	100		0.713
157 PCB 203	35.13	0.884	224560	247992	0.91	YES	db	75.000	0.0	100		0.702
158 PCB 195	36.58	0.921	310055	348557	0.89	YES	db	75.000	0.0	100		0.979
159 PCB 194	39.21	0.987	327949	366709	0.89	YES	bd	75.000	0.0	100		1.032
160 PCB 205	39.74	1.001	353260	398678	0.89	YES	db	73.255	-2.3	98	189	1.065
161 PCB 208	36.30	1.001	237588	303054	0.78	YES	bb	76.828	2.4	102	190	1.048
162 PCB 207	37.33	1.029	248544	316267	0.79	YES	bb	75.000	0.0	100		1.327
163 PCB 206	41.71	1.001	146970	190875	0.77	YES	bb	73.584	-1.9	98	191	1.007
164 PCB 209	43.57	1.001	197535	165338	1.19	YES	bb	81.187	8.2	108	192	1.126
165 PCB 1L	8.98	0.803	1053785	323312	3.26	YES	bs	100.264	0.3	100	199	0.826
166 PCB 3L	10.17	0.910	1037867	326591	3.18	YES	bb	96.013	-4.0	96	199	0.818
167 PCB 4L	10.29	0.920	551166	349578	1.58	YES	bb	99.562	-0.4	100	199	0.540
168 PCB 15L	12.92	1.155	1195736	750073	1.59	YES	bs	108.631	8.6	109	199	1.167
169 PCB 19L	11.67	1.043	480885	459413	1.05	YES	bb	97.534	-2.5	98	199	0.564
170 PCB 37L	16.67	1.086	854339	817796	1.04	YES	bb	88.120	-11.9	88	200	1.751
171 PCB 54L	13.05	0.850	535286	680927	0.79	YES	bb	98.145	-1.9	98	200	1.273
172 PCB 81L	21.40	1.394	758780	955258	0.79	YES	bd	103.254	3.3	103	200	1.794
173 PCB 77L	21.84	1.423	736242	921653	0.80	YES	db	103.493	3.5	103	200	1.736
174 PCB 104L	15.92	0.805	630768	396936	1.59	YES	bb	104.229	4.2	104	201	1.205
175 PCB 123L	23.48	1.188	1042898	645017	1.62	YES	bd	102.195	2.2	102	201	1.978
176 PCB 118L	23.77	1.203	1009641	638761	1.58	YES	dd	101.377	1.4	101	201	1.932
177 PCB 114L	24.25	1.227	948065	594644	1.59	YES	db	101.992	2.0	102	201	1.808
178 PCB 105L	24.82	1.256	980760	613622	1.60	YES	bb	102.541	2.5	103	201	1.869
179 PCB 126L	27.69	1.401	949312	579229	1.64	YES	bs	103.231	3.2	103	201	1.792
180 PCB 155L	19.60	0.738	559461	435281	1.29	YES	bb	89.077	-10.9	89	202	1.250
181 PCB 167L	29.51	1.111	905608	716407	1.26	YES	db	96.623	-3.4	97	202	2.039
182 PCB 156L/157L	30.67	1.155	1628216	1280918	1.27	YES	bb	190.341	-4.8	95	202	1.828
183 PCB 169L	34.07	1.283	812179	637686	1.27	YES	bs	96.606	-3.4	97	202	1.822
184 PCB 188L	24.19	0.911	493070	461223	1.07	YES	bd	90.221	-9.8	90	202	1.199
185 PCB 180L	32.10	0.820	435155	404218	1.08	YES	bb	97.615	-2.4	98	203	1.316
186 PCB 170L	33.43	0.853	372370	345602	1.08	YES	bb	95.413	-4.6	95	203	1.126
187 PCB 189L	36.83	0.940	676989	633295	1.07	YES	bb	95.256	-4.7	95	203	2.055
188 PCB 202L	29.24	0.746	407658	445749	0.91	YES	bb	94.291	-5.7	94	203	1.338

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Instrument: Autospec-UltimaE

Description: 209MIX\_PCB 150822CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
189	PCB 205L	39.72	1.014	451960	489268	0.92	YES	db	96.397	-3.6	96	203	1.476
190	PCB 208L	36.28	0.926	303287	384291	0.79	YES	bb	94.639	-5.4	95	203	1.078
191	PCB 206L	41.69	1.064	199980	247252	0.81	YES	bb	92.344	-7.7	92	203	0.701
192	PCB 209L	43.55	1.112	237058	192767	1.23	YES	bb	93.066	-6.9	93	203	0.674
193	PCB 28L	14.40	0.938	1076550	1042269	1.03	YES	ds	108.772	8.8	109	200	2.218
194	PCB 111L	21.83	1.105	716538	449116	1.60	YES	bb	101.726	1.7	102	201	1.366
195	PCB 178L	26.99	1.016	295622	276433	1.07	YES	bb	98.097	-1.9	98	202	0.719
196	PCB 31L	14.24	0.927	1033628	992294	1.04	YES	bd	109.646	9.6	110	200	2.121
197	PCB 95L	17.73	0.897	486526	302076	1.61	YES	bb	97.686	-2.3	98	201	0.924
198	PCB 153L	25.41	0.956	544619	418209	1.30	YES	bb	98.774	-1.2	99	202	1.210
199	PCB 9L	11.18	0.000	1022405	644863	1.59	YES	bb	100.000	-0.0	100	0	16672...
200	PCB 52L	15.36	0.000	418812	536398	0.78	YES	bb	100.000	0.0	100	0	9552....
201	PCB 101L	19.76	0.000	527125	326077	1.62	YES	bb	100.000	0.0	100	0	8532....
202	PCB 138L	26.56	0.000	450059	345599	1.30	YES	bb	100.000	0.0	100	0	7956....
203	PCB 194L	39.17	0.000	308567	329064	0.94	YES	bd	100.000	0.0	100	0	6376....
204	Total MoCB F1								78.601			165	
205	Total MoCB labeled ...								196.277			199	
206	Total DiCB F1								51.795			167	
207	Total DiCB labeled F1								99.562			199	
208	Total DiCB F2								253.848			168	
209	Total DiCB labeled F2								208.631			199	
210	Total TriCB F2								201.559			169	
211	Total TriCB labeled F2								97.534			199	
212	Total TriCB F3								404.647			170	
213	Total TriCB labeled F3								307.789			200	
214	Total TeCB F2								55.896			171	
215	Total TeCB labeled F2								98.145			200	
216	Total TeCB F3								1100....			171	
217	Total TeCB labeled F3								100.000			200	
218	Total TeCB F4								967.213			172	
219	Total TeCB labeled F4								209.743			200	
220	Total PeCB F3								98.608			174	
221	Total PeCB labeled F3								104.229			201	
222	Total PeCB F4								1656....			175	
223	Total PeCB labeled F4								299.412			201	
224	Total PeCB F5								590.351			175	
225	Total PeCB labeled F5								512.447			201	
226	Total HxCB F4								502.441			180	
227	Total HxCB labeled F4								89.582			202	
228	Total HxCB F5								1303....			181	
229	Total HxCB labeled F5								198.774			202	
230	Total HxCB F6								334.767			181	
231	Total HxCB labeled F6								387.190			202	
232	Total HpCB F5								451.206			184	
233	Total HpCB labeled ...								189.402			203	
234	Total HpCB F6								715.869			185	
235	Total HpCB labeled ...								193.528			203	
236	Total HpCB F7								71.799			187	

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**Date: 11-FEB-2016**

**Time: 00:34:32**

**Instrument: Autospec-UltimaE**

**Description: 209MIX\_PCB 150822CXU**

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio	Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
237	Total HpCB labeled ...									108.346			203	
238	Total OcCB F6									675.522			188	
239	Total OcCB labeled ...									94.291			203	
240	Total OcCB F7									236.395			189	
241	Total OcCB labeled ...									196.402			203	
242	Total NoCB F7									226.061			190	
243	Total NoCB labeled ...									188.282			203	
244	Total DeCB F7									81.187			192	
245	Total DeCB labeled ...									93.066			203	
246	lockmass F1												0	
247	lockmass F2												0	
248	lockmass F3												0	
249	lockmass F4												0	
250	lockmass F5												0	
251	lockmass F6												0	
252	lockmass F7												0	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

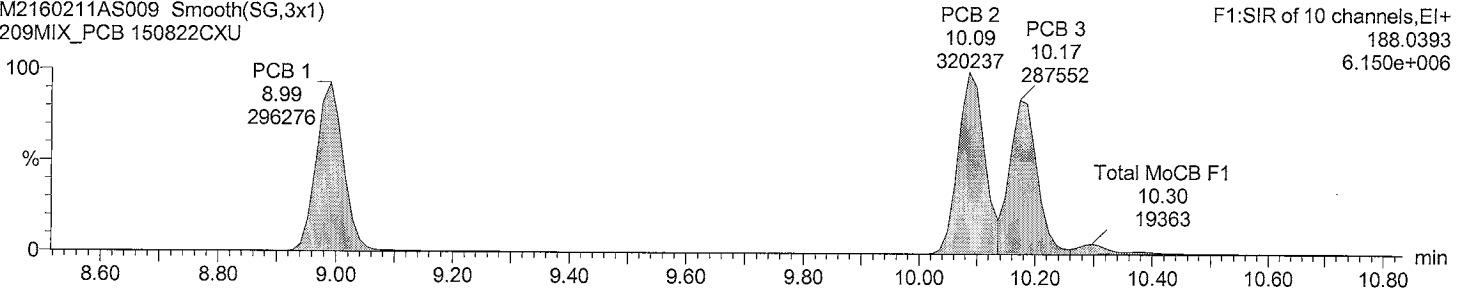
Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668\_M2160211A.mdb 16 Feb 2016 10:09:59  
Calibration: 16 Feb 2016 10:34:51

Description: 209MIX\_PCB 150822CXU  
Vial: 9  
Date: 11-FEB-2016  
Time: 00:34:32  
Instrument: Autospec-UltimaE

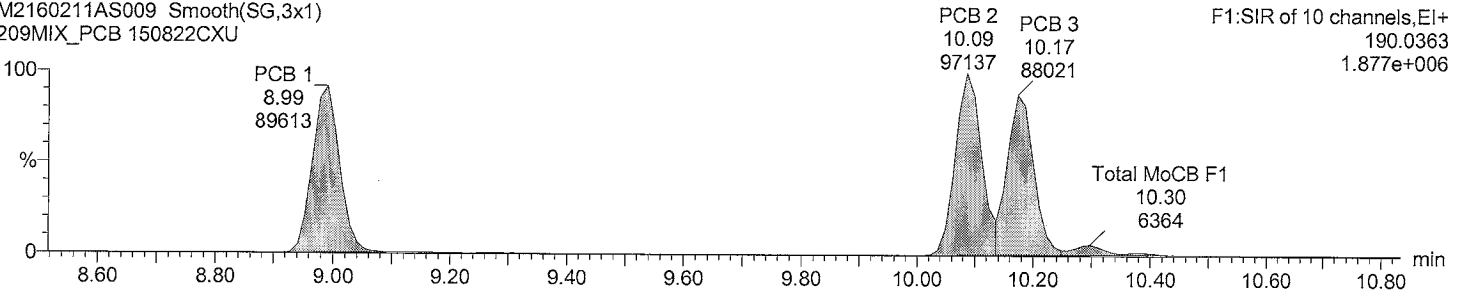
**Total MoCB F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



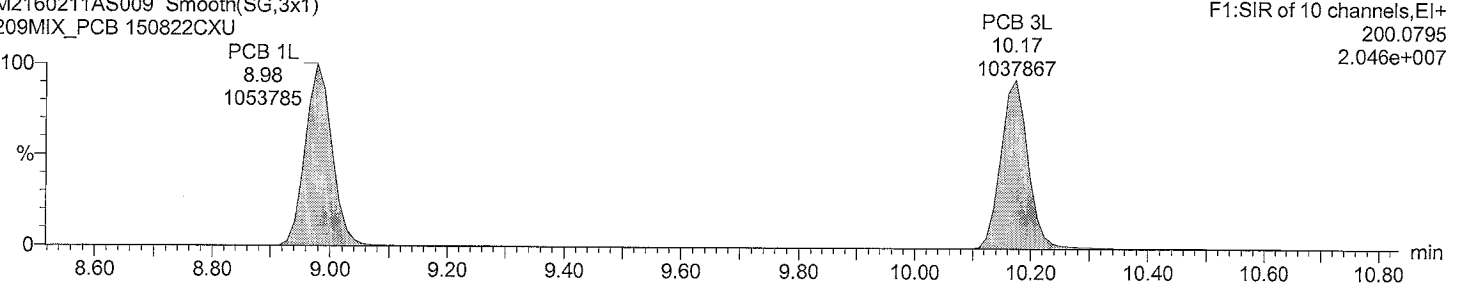
**Total MoCB F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



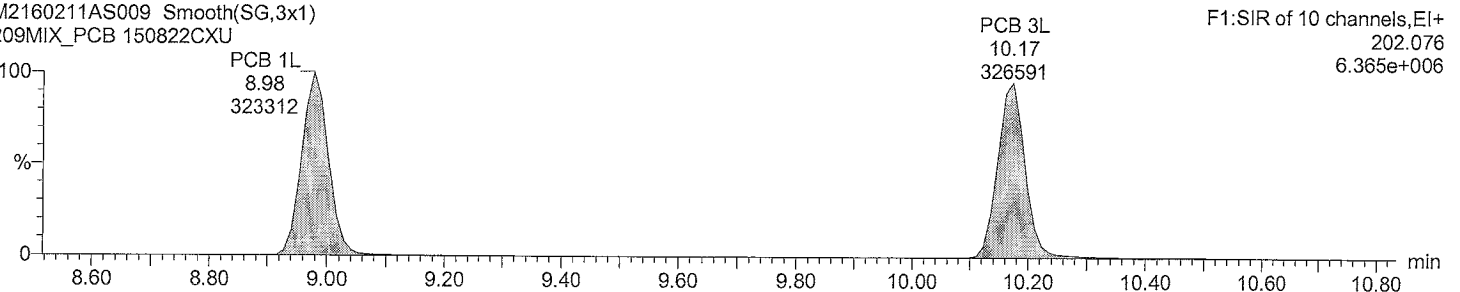
**Total MoCB labeled F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



**Total MoCB labeled F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

**Description: 209MIX\_PCB 150822CXU**

**Vial: 9**

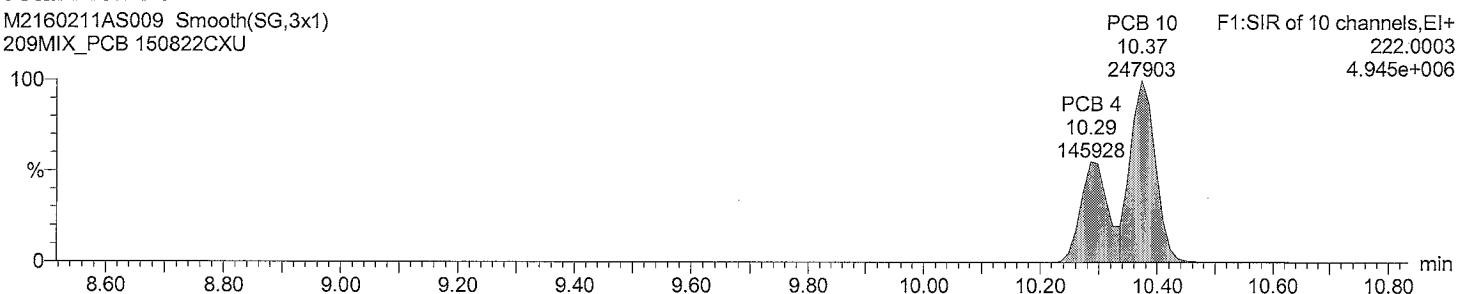
**Date: 11-FEB-2016**

**Time: 00:34:32**

**Instrument: Autospec-UltimaE**

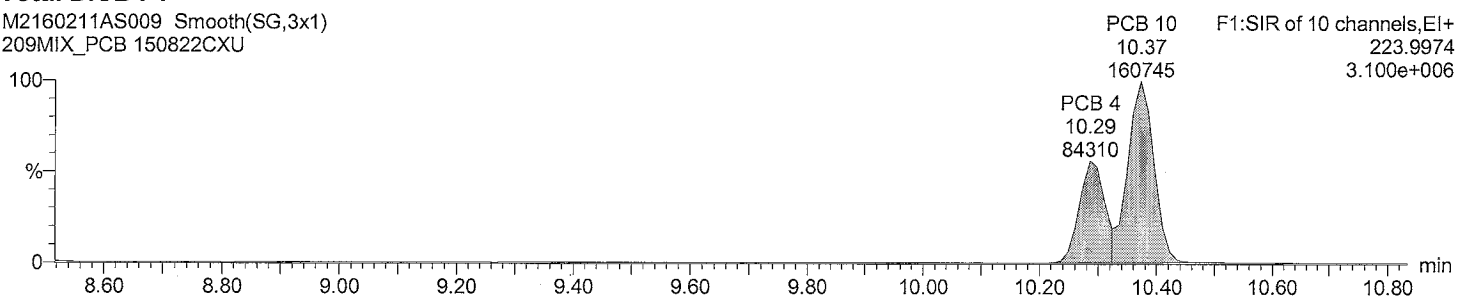
**Total DiCB F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



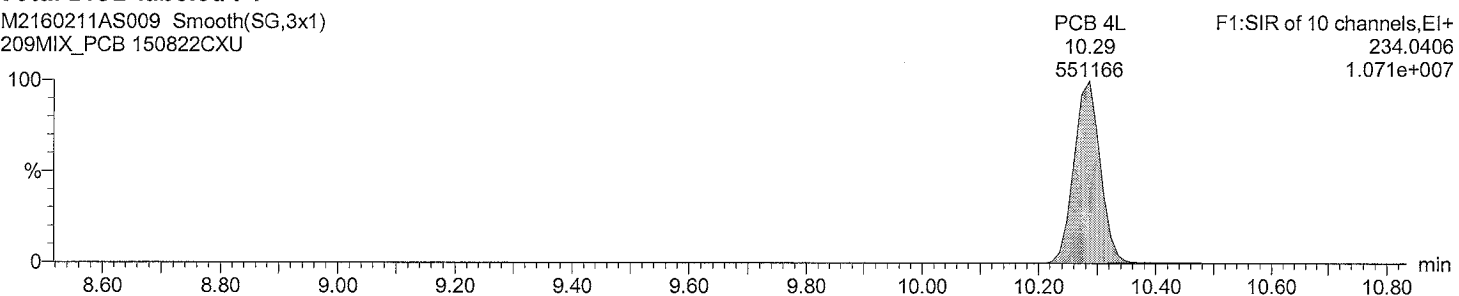
**Total DiCB F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



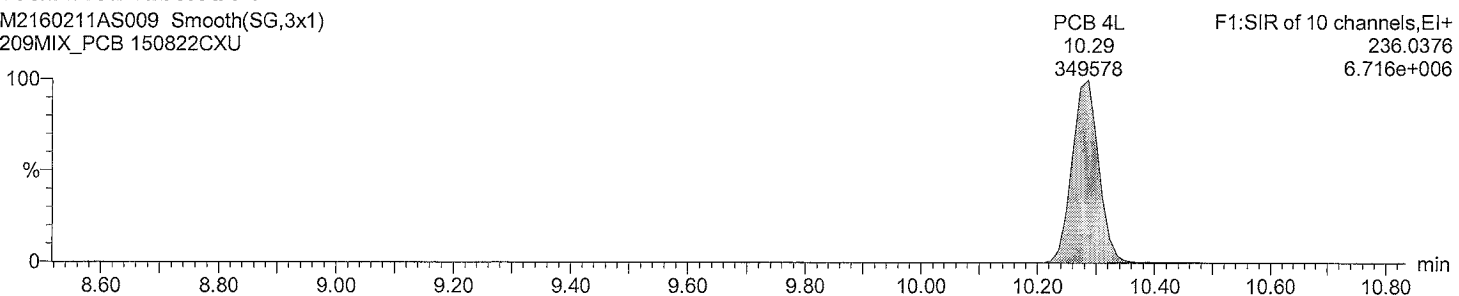
**Total DiCB labeled F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



**Total DiCB labeled F1**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qid

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Total DiCB F2

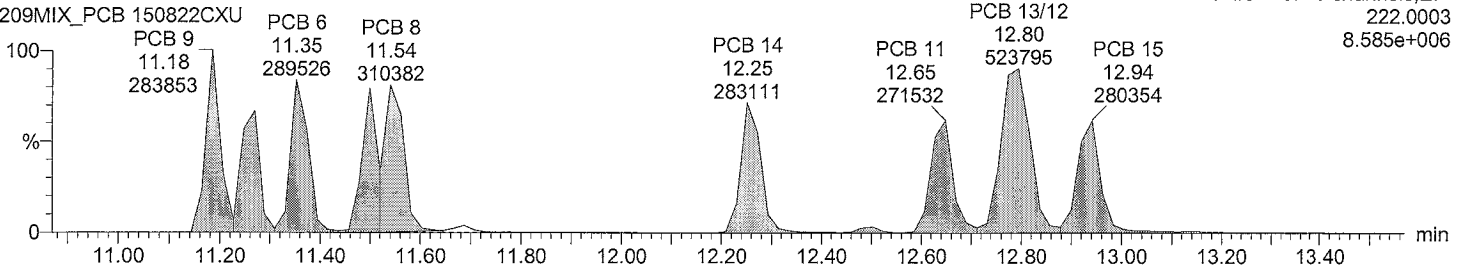
M2160211AS009

209MIX\_PCB 150822CXU

F2:SIR of 16 channels,EI+

222.0003

8.585e+006



Total DiCB F2

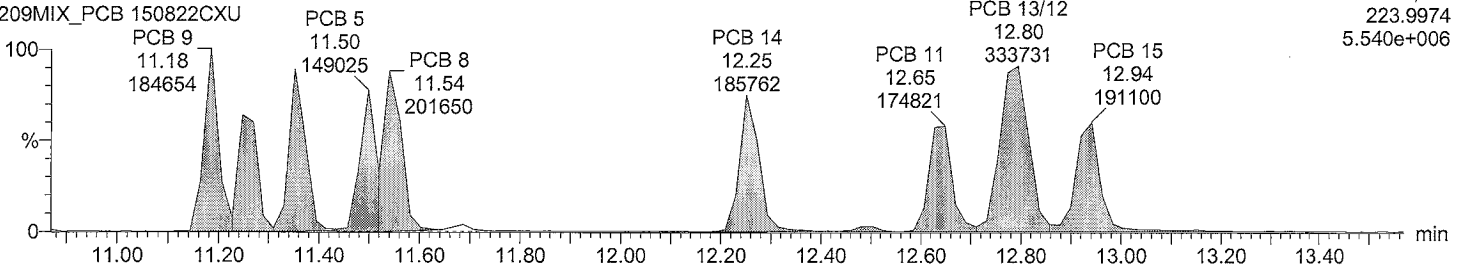
M2160211AS009

209MIX\_PCB 150822CXU

F2:SIR of 16 channels,EI+

223.9974

5.540e+006



Total DiCB labeled F2

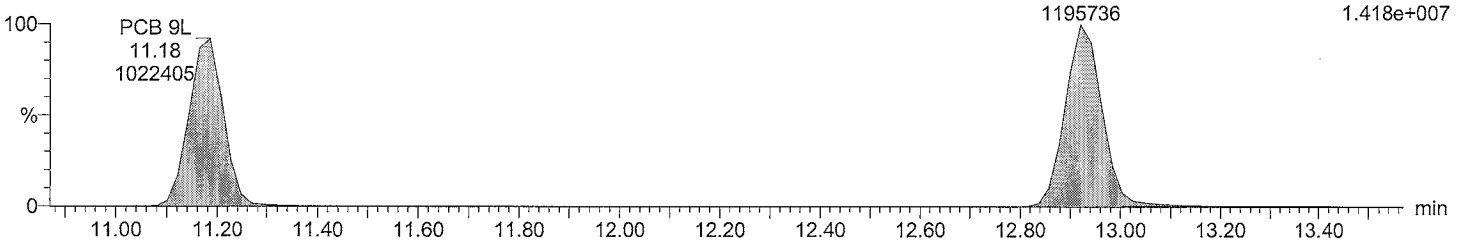
M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU

F2:SIR of 16 channels,EI+

234.0406

1.418e+007



Total DiCB labeled F2

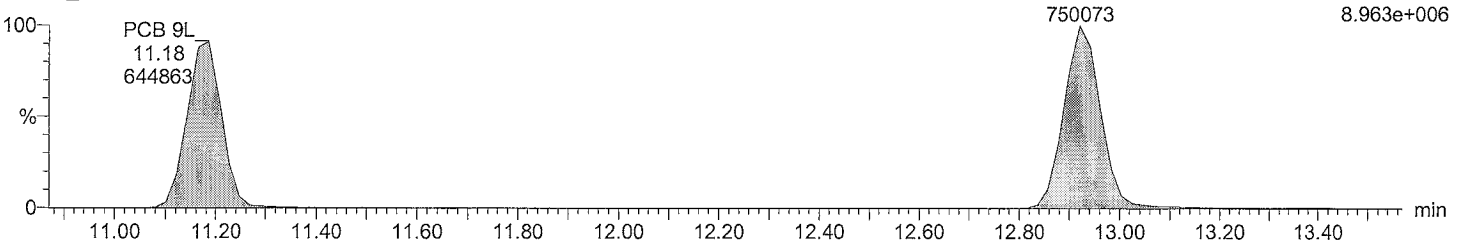
M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU

F2:SIR of 16 channels,EI+

236.0376

8.963e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

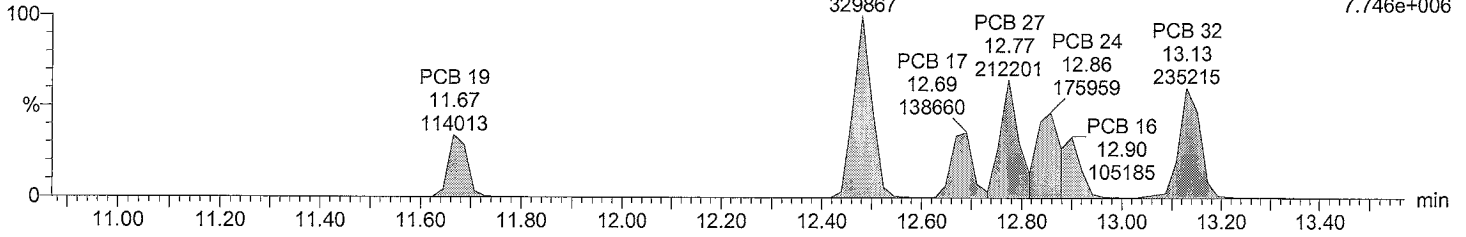
Instrument: Autospec-UltimaE

Total TriCB F2

M2160211AS009  
209MIX\_PCB 150822CXU

PCB 30/18  
12.48  
329867

F2:SIR of 16 channels,EI+  
255.9614  
7.746e+006

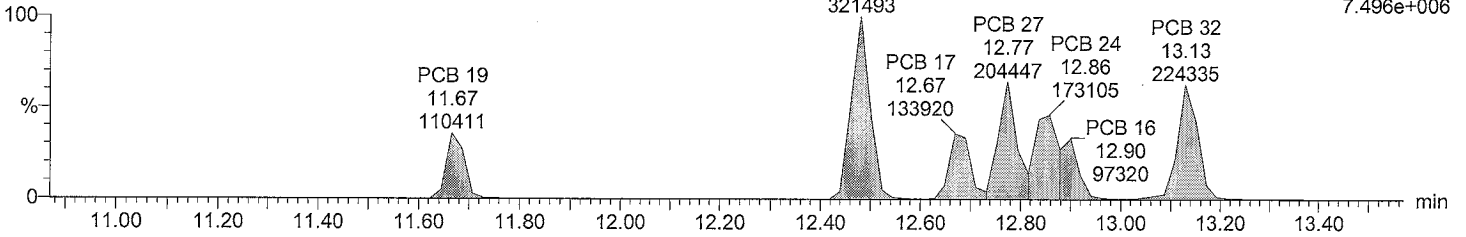


Total TriCB F2

M2160211AS009  
209MIX\_PCB 150822CXU

PCB 30/18  
12.48  
321493

F2:SIR of 16 channels,EI+  
257.9584  
7.496e+006

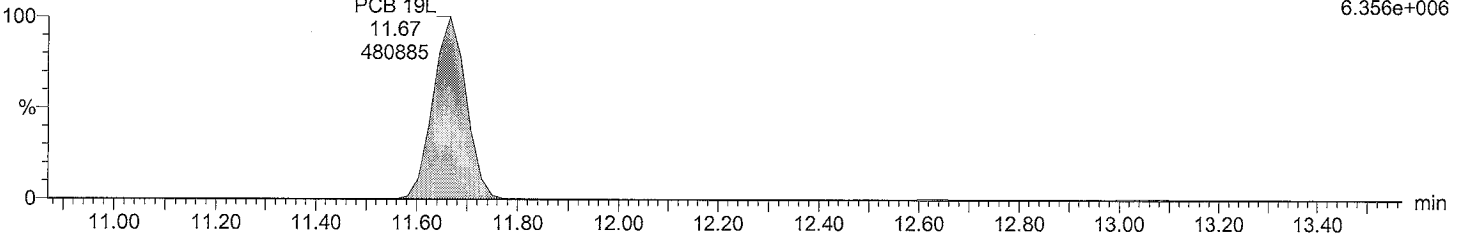


Total TriCB labeled F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 19L  
11.67  
480885

F2:SIR of 16 channels,EI+  
268.0016  
6.356e+006

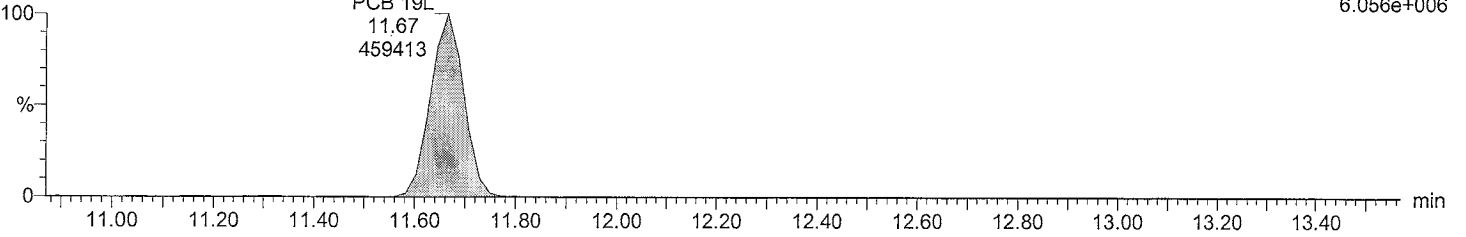


Total TriCB labeled F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 19L  
11.67  
459413

F2:SIR of 16 channels,EI+  
269.9986  
6.056e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

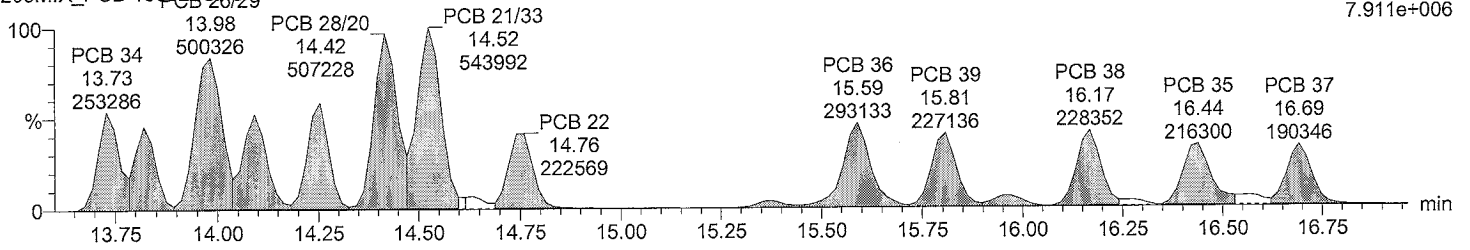
Instrument: Autospec-UltimaE

Total TriCB F3

M2160211AS009 Smooth(SG,1x1)

209MIX\_PCB 150822CXU

F3:SIR of 14 channels,EI+  
255.9614  
7.911e+006

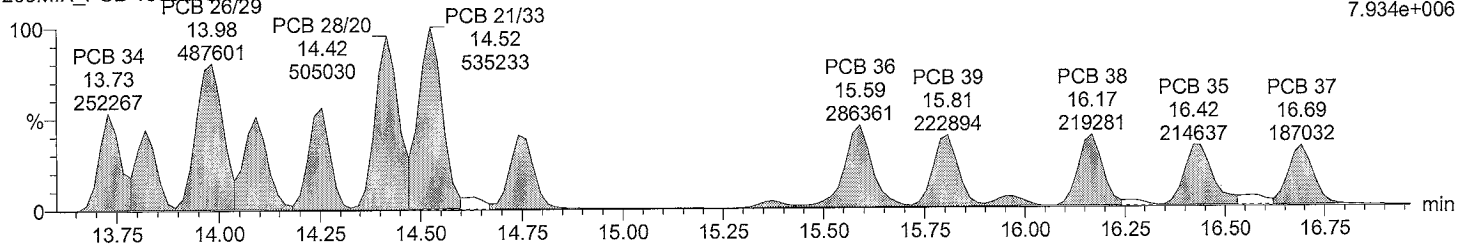


Total TriCB F3

M2160211AS009 Smooth(SG,1x1)

209MIX\_PCB 150822CXU

F3:SIR of 14 channels,EI+  
257.9584  
7.934e+006

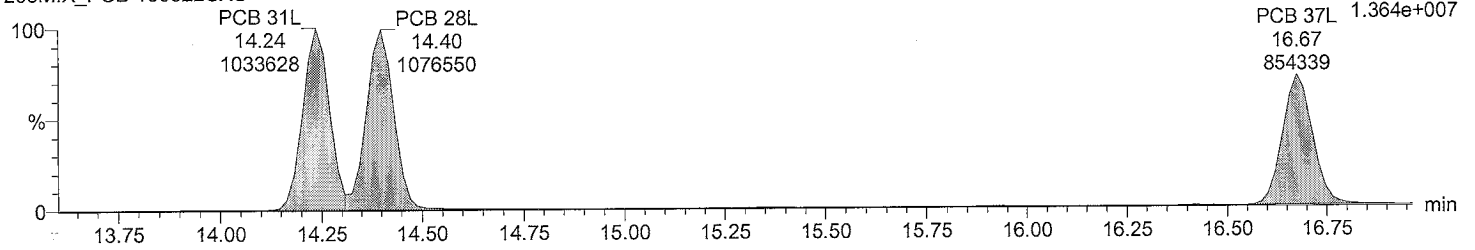


Total TriCB labeled F3

M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU

F3:SIR of 14 channels,EI+  
268.0016  
1.364e+007

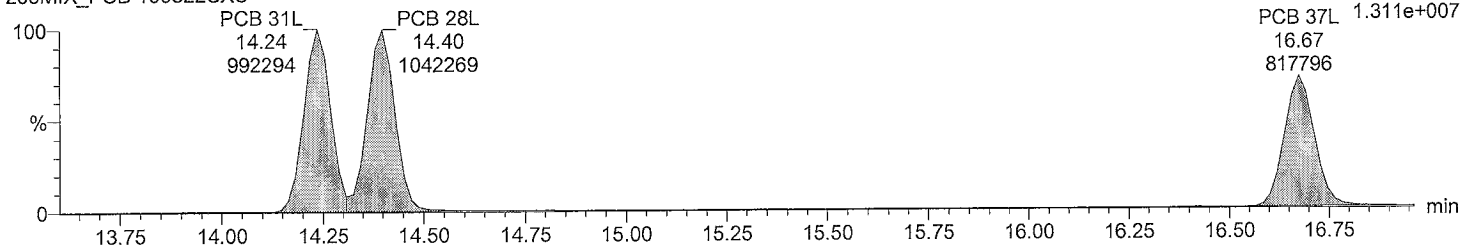


Total TriCB labeled F3

M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU

F3:SIR of 14 channels,EI+  
269.9986  
1.311e+007





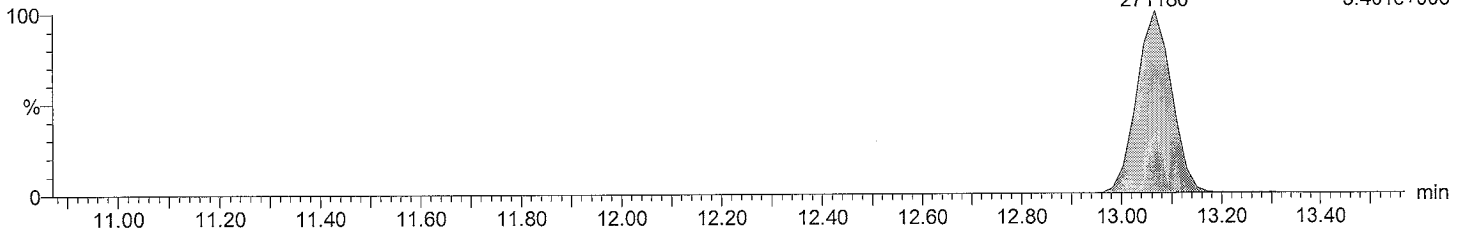
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld  
Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU  
Vial: 9  
Date: 11-FEB-2016  
Time: 00:34:32  
Instrument: Autospec-UltimaE

Total TeCB F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

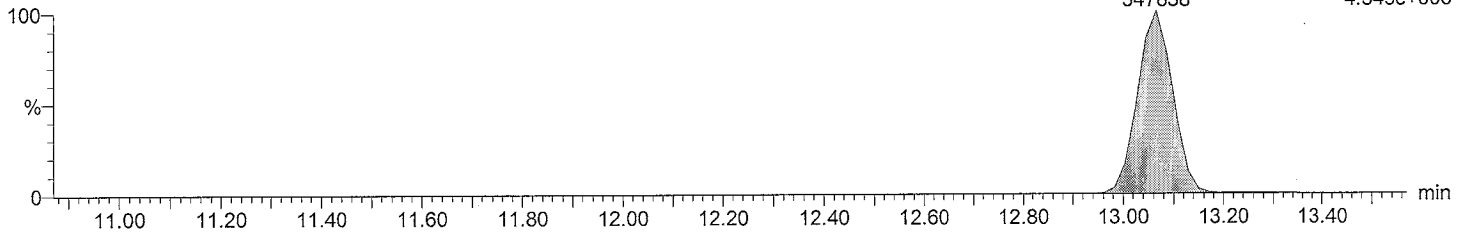
PCB 54 F2:SIR of 16 channels,EI+  
13.07 289.9224  
271180 3.401e+006



Total TeCB F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

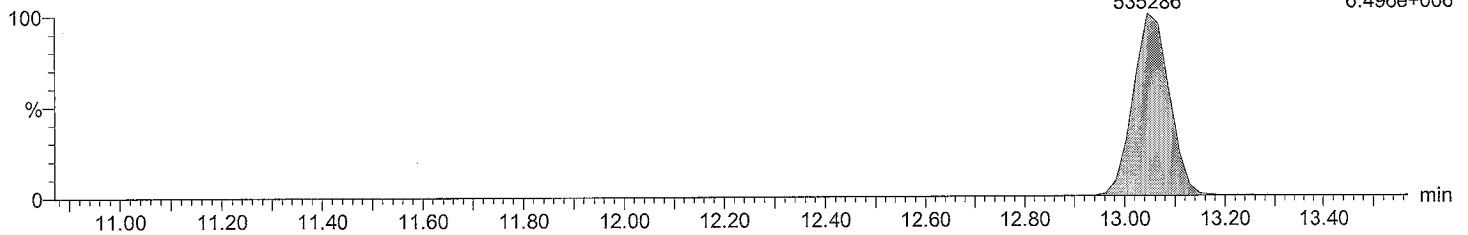
PCB 54 F2:SIR of 16 channels,EI+  
13.07 291.9194  
347838 4.349e+006



Total TeCB labeled F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

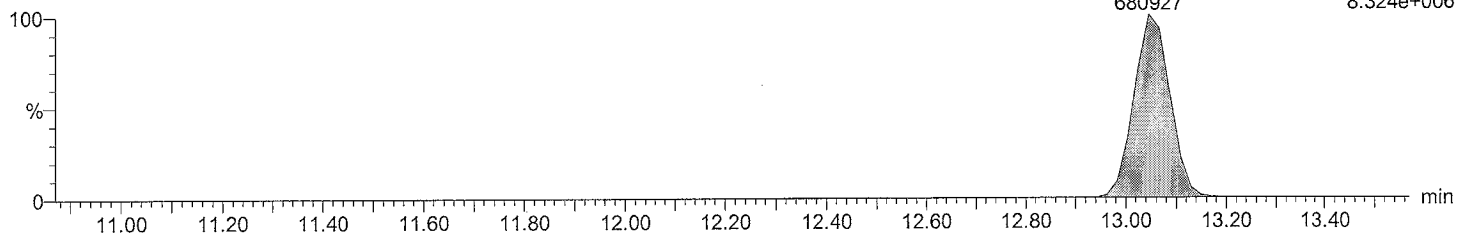
PCB 54L F2:SIR of 16 channels,EI+  
13.05 301.9626  
535286 6.496e+006



Total TeCB labeled F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 54L F2:SIR of 16 channels,EI+  
13.05 303.9597  
680927 8.324e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

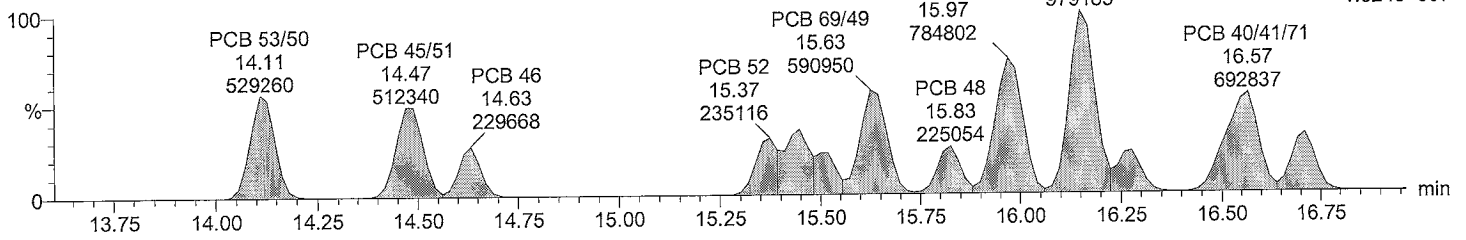
Time: 00:34:32

Instrument: Autospec-UltimaE

Total TeCB F3

M2160211AS009 Smooth(SG,1x1)  
209MIX\_PCB 150822CXU

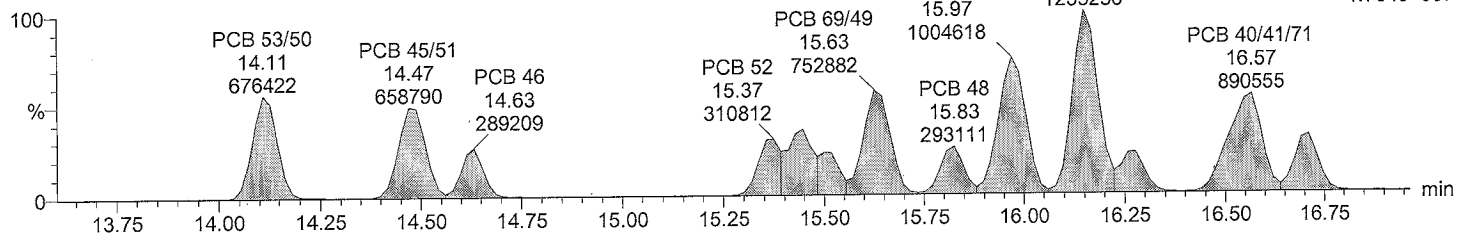
PCB 59/62/75 16.15 979189  
F3:SIR of 14 channels,EI+  
289.9224  
1.324e+007



Total TeCB F3

M2160211AS009 Smooth(SG,1x1)  
209MIX\_PCB 150822CXU

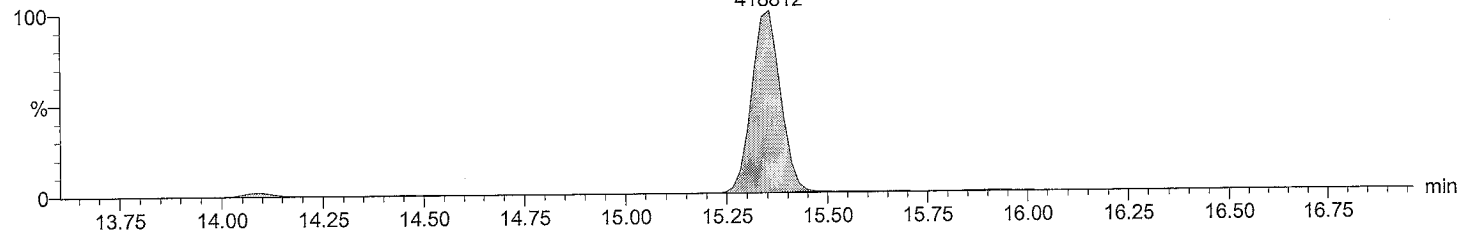
PCB 59/62/75 16.15 1259296  
F3:SIR of 14 channels,EI+  
291.9194  
1.704e+007



Total TeCB labeled F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

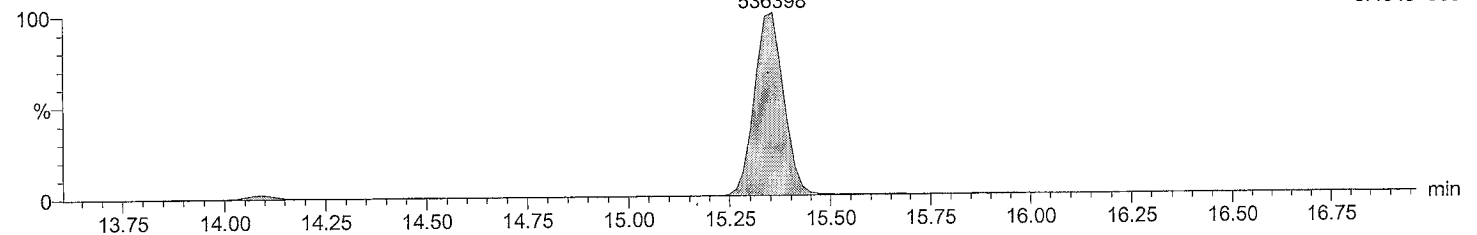
PCB 52L 15.36 418812  
F3:SIR of 14 channels,EI+  
301.9626  
5.129e+006



Total TeCB labeled F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 52L 15.36 536398  
F3:SIR of 14 channels,EI+  
303.9597  
6.464e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

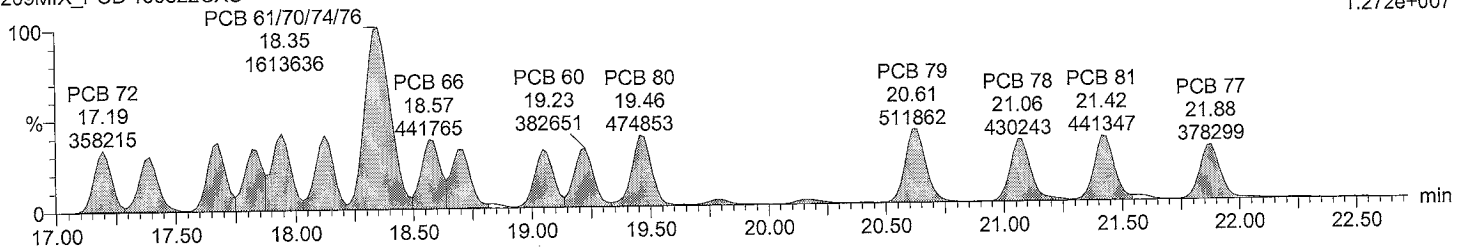
Time: 00:34:32

Instrument: Autospec-UltimaE

Total TeCB F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

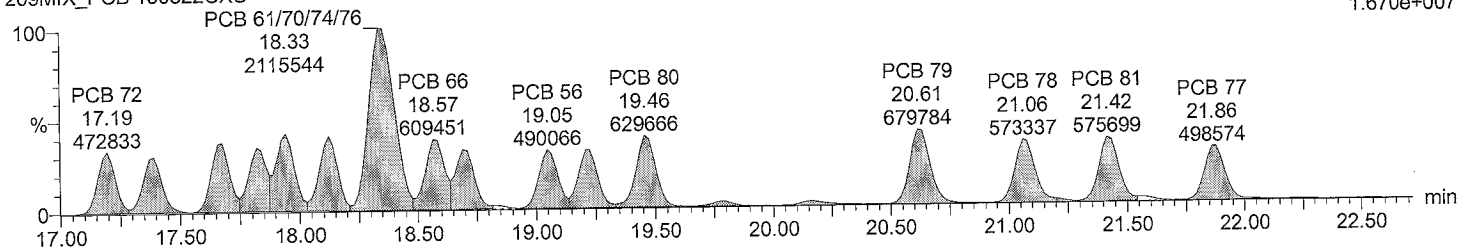
F4:SIR of 14 channels,EI+  
289.9224  
1.272e+007



Total TeCB F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F4:SIR of 14 channels,EI+  
291.9194  
1.670e+007

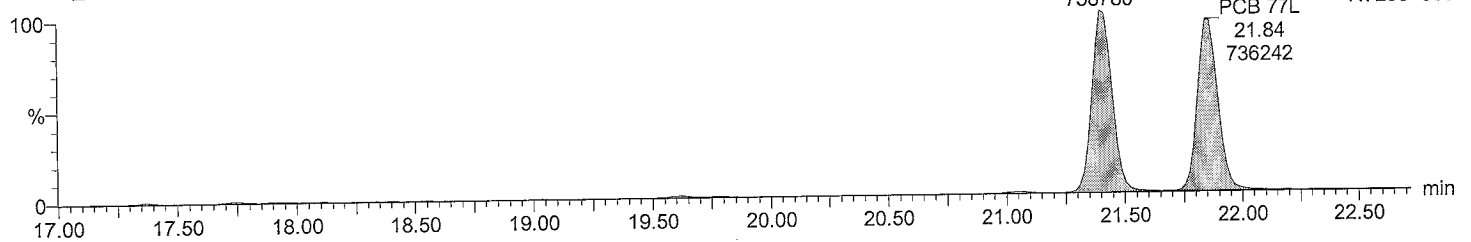


Total TeCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 81L 21.40  
758780

F4:SIR of 14 channels,EI+  
301.9626  
7.726e+006

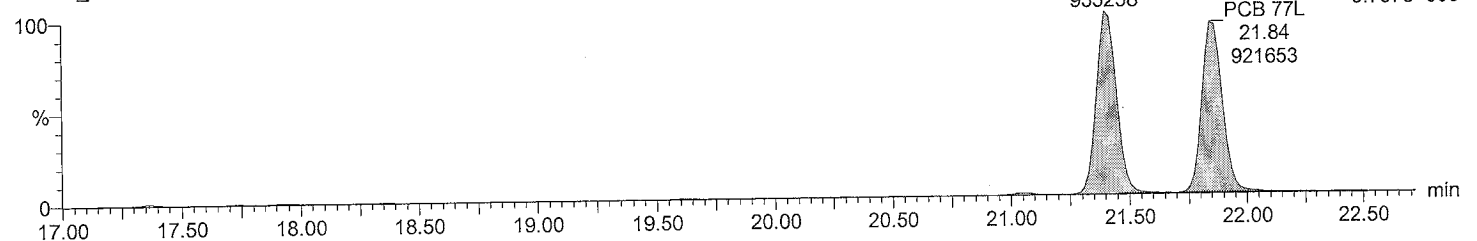


Total TeCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 81L 21.40  
955258

F4:SIR of 14 channels,EI+  
303.9597  
9.797e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

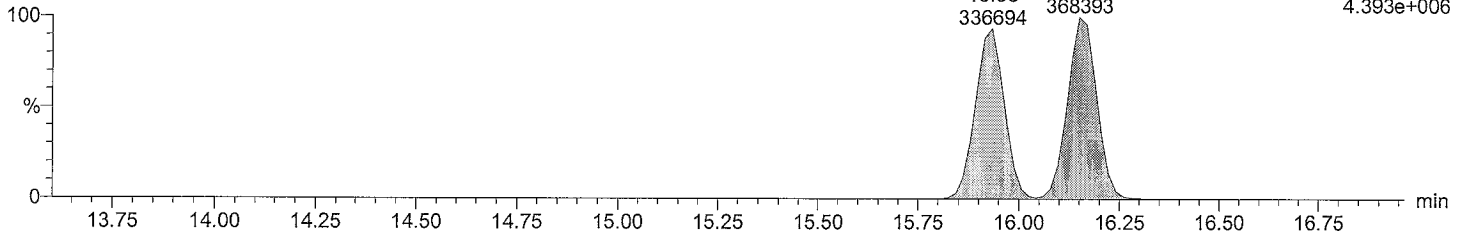
Instrument: Autospec-UltimaE

Total PeCB F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 104 15.93 336694  
PCB 96 16.15 368393

F3:SIR of 14 channels,EI+  
325.8805  
4.393e+006

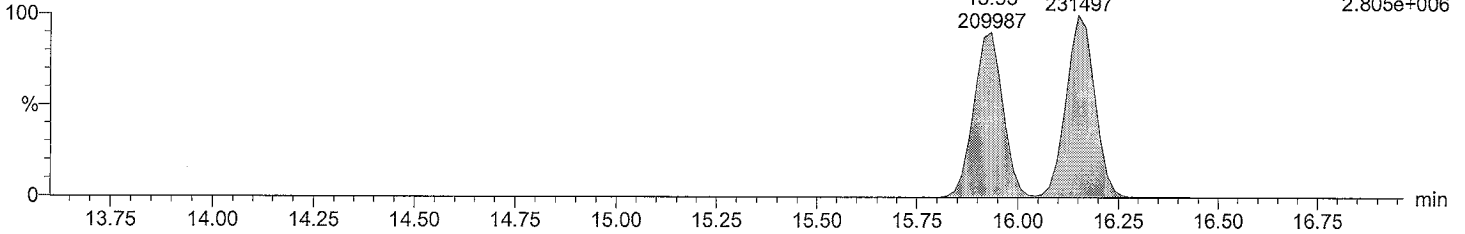


Total PeCB F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 104 15.93 209987  
PCB 96 16.15 231497

F3:SIR of 14 channels,EI+  
327.8775  
2.805e+006

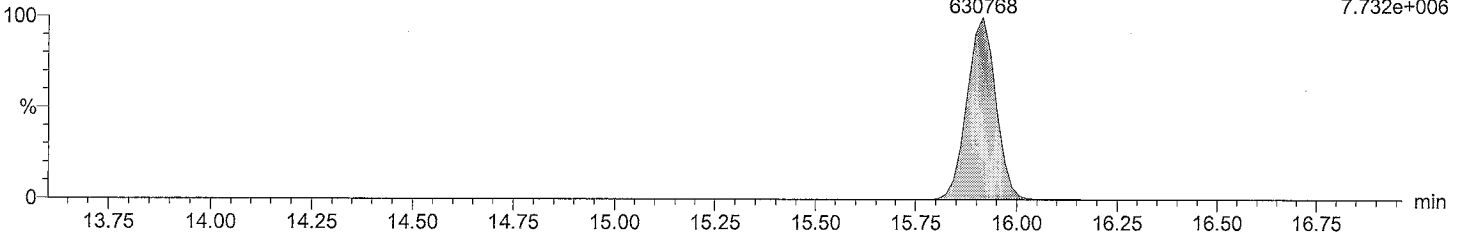


Total PeCB labeled F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 104L 15.92 630768

F3:SIR of 14 channels,EI+  
337.9207  
7.732e+006

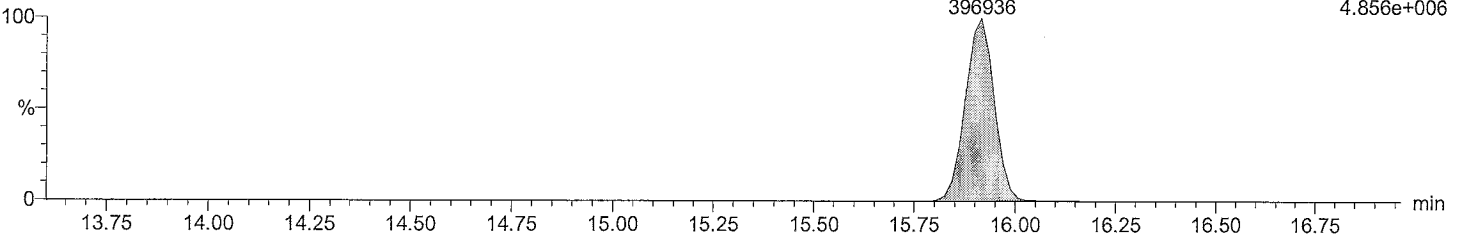


Total PeCB labeled F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 104L 15.92 396936

F3:SIR of 14 channels,EI+  
339.9178  
4.856e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

Total PeCB F4

M2160211AS009 Smooth(SG,2x1)  
209MIX\_PCB 150822CXU

PCB 109/119/86/97/125/87

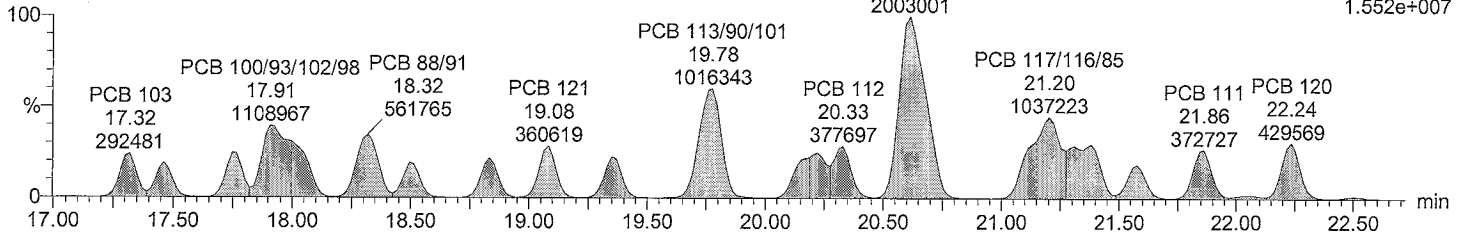
F4:SIR of 14 channels,EI+

20.61

325.8805

2003001

1.552e+007



Total PeCB F4

M2160211AS009 Smooth(SG,2x1)  
209MIX\_PCB 150822CXU

PCB 109/119/86/97/125/87

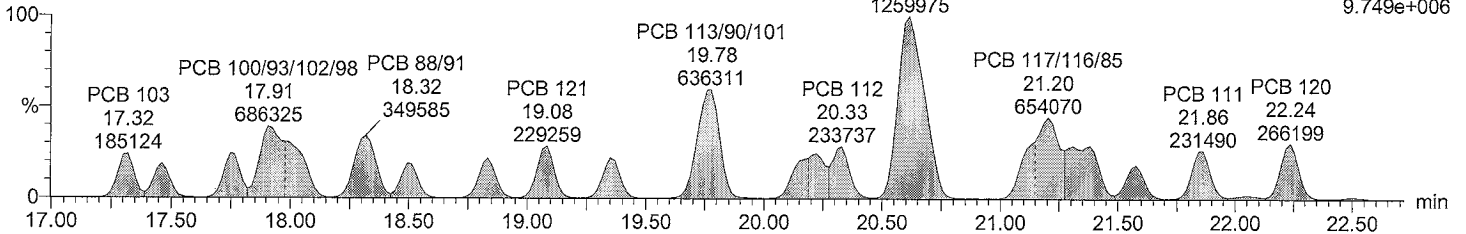
F4:SIR of 14 channels,EI+

20.61

327.8775

1259975

9.749e+006



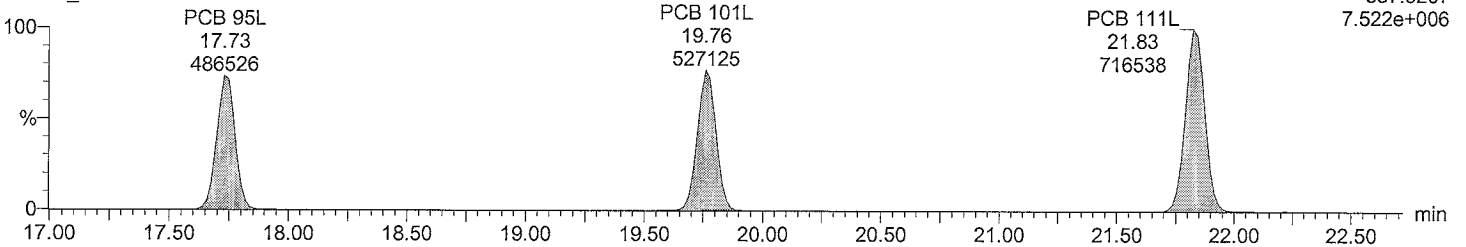
Total PeCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F4:SIR of 14 channels,EI+

337.9207

7.522e+006



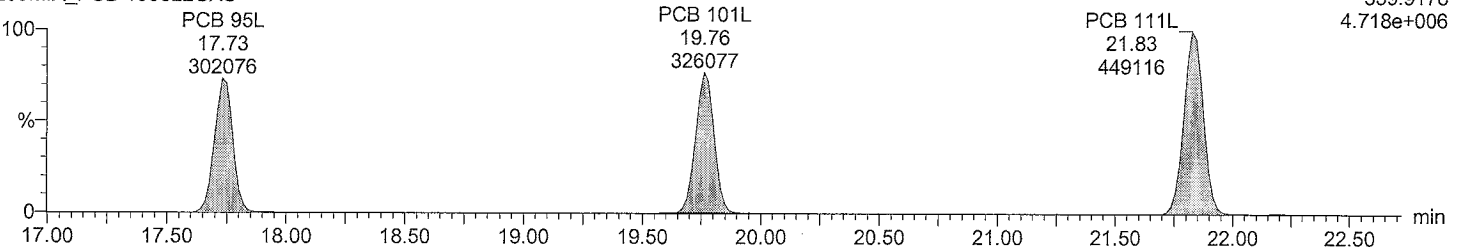
Total PeCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F4:SIR of 14 channels,EI+

339.9178

4.718e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

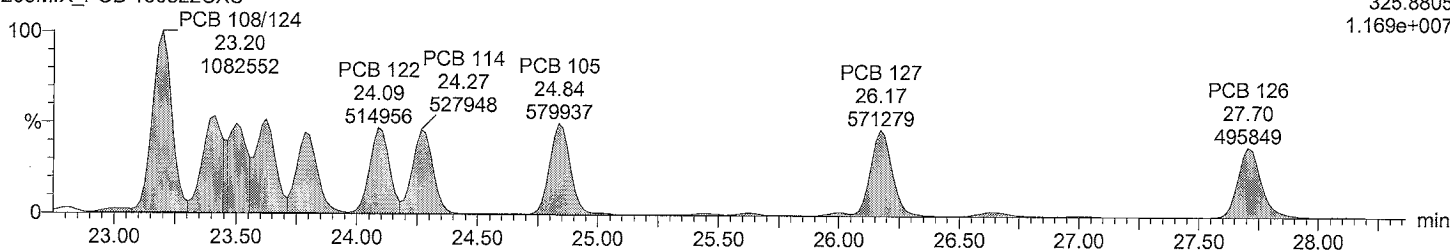
Time: 00:34:32

Instrument: Autospec-UltimaE

Total PeCB F5

M2160211AS009 Smooth(SG,2x1)  
209MIX\_PCB 150822CXU

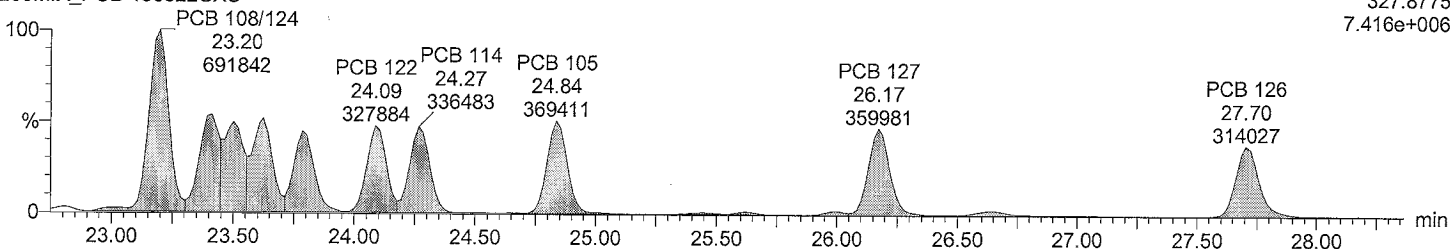
F5:SIR of 14 channels,EI+  
325.8805  
1.169e+007



Total PeCB F5

M2160211AS009 Smooth(SG,2x1)  
209MIX\_PCB 150822CXU

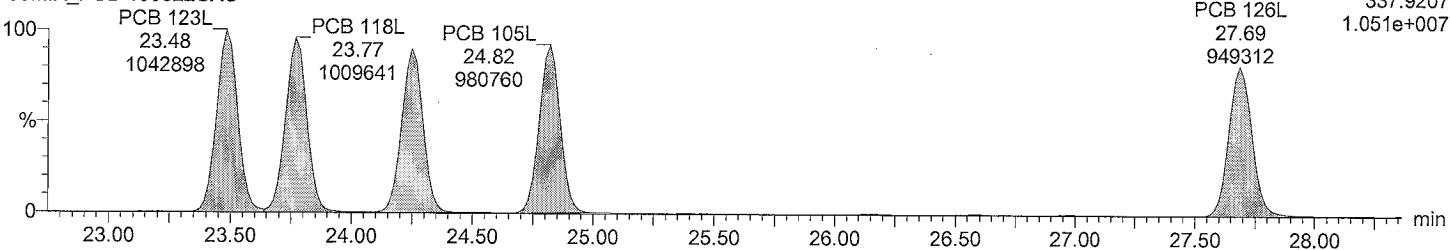
F5:SIR of 14 channels,EI+  
327.8775  
7.416e+006



Total PeCB labeled F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

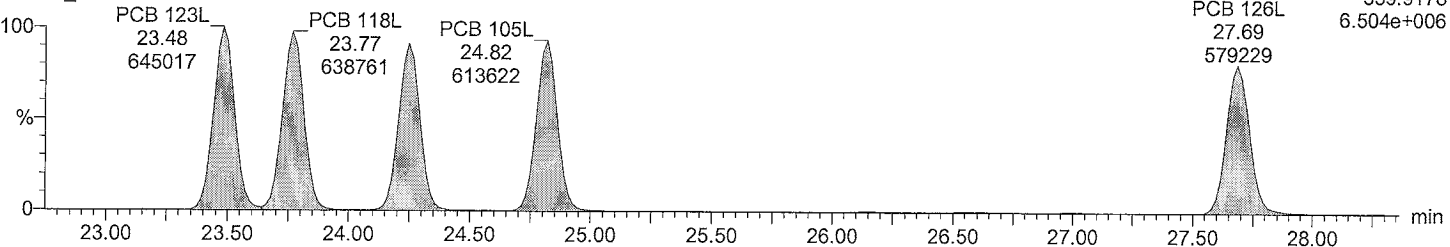
F5:SIR of 14 channels,EI+  
337.9207  
1.051e+007



Total PeCB labeled F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F5:SIR of 14 channels,EI+  
339.9178  
6.504e+006



Dataset: C:\MassLynx\Default.pro\QLDM2160211A\_209MIX\_Test.qld

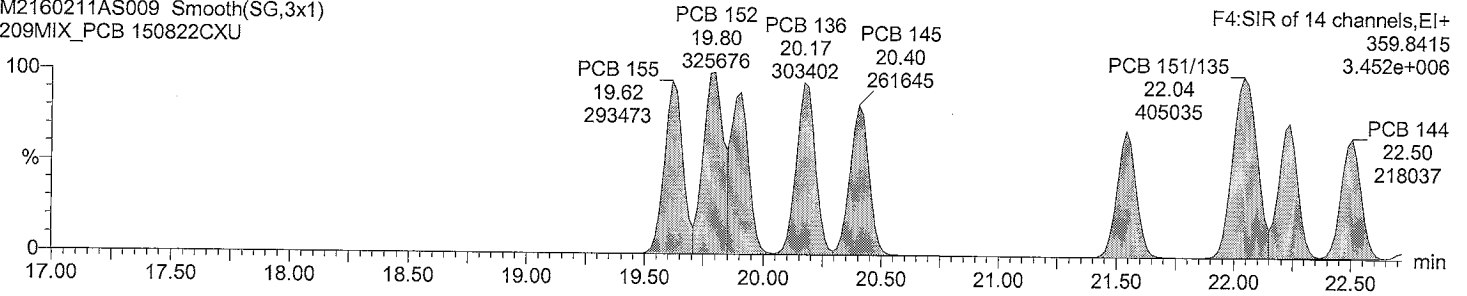
Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9  
Date: 11-FEB-2016  
Time: 00:34:32  
Instrument: Autospec-UltimaE

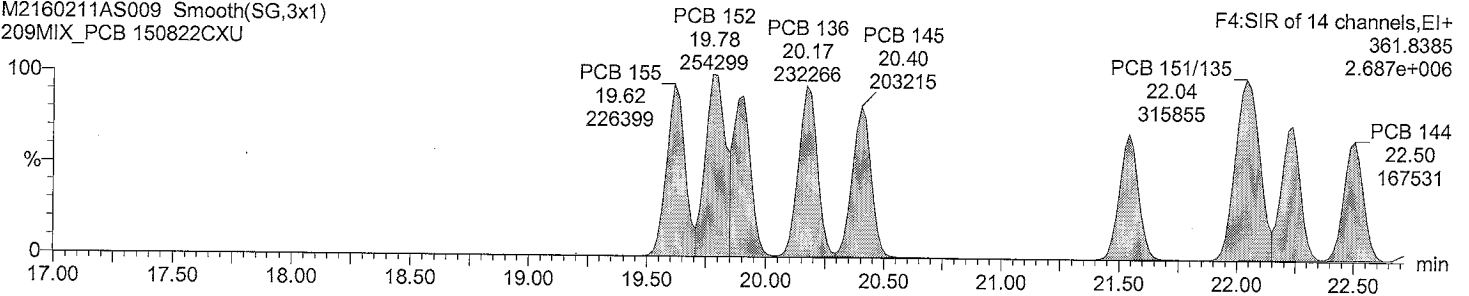
Total HxCB F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



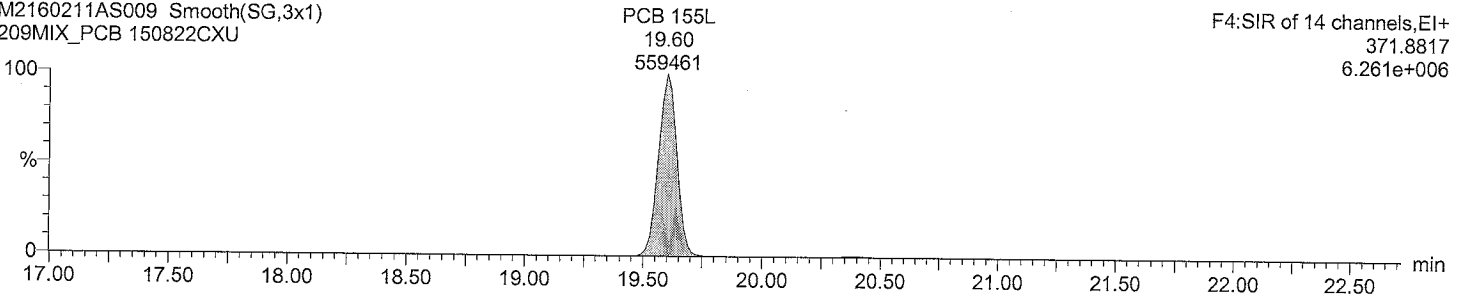
Total HxCB F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



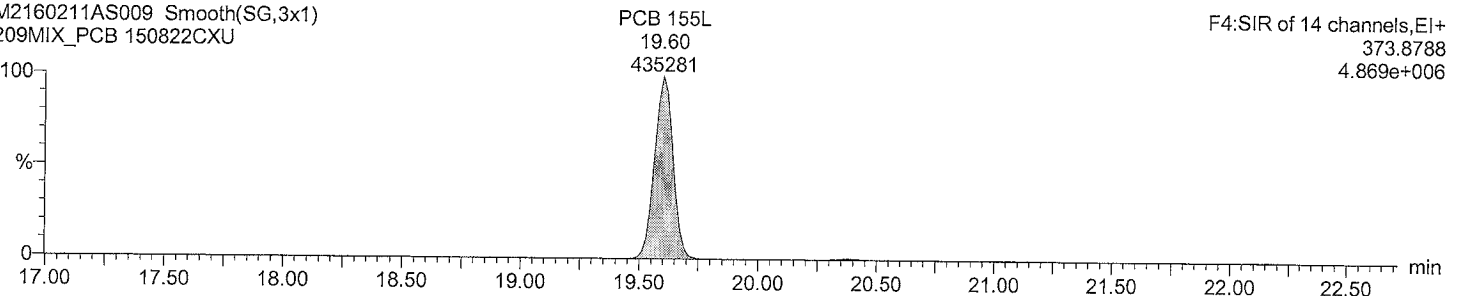
Total HxCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



Total HxCB labeled F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



**Quantify Sample Report**    **MassLynx 4.0 SP1**  
 Acquired Date

Dataset:            C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

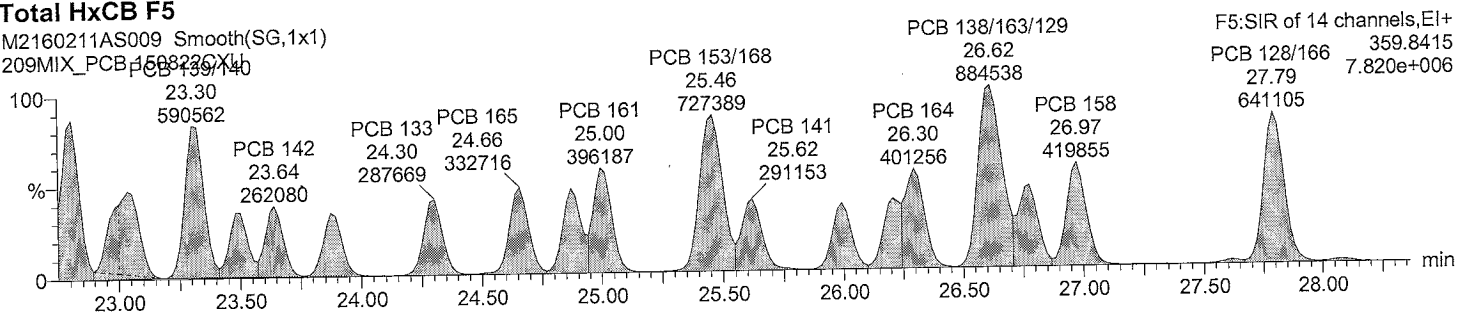
Last Altered:      February 16, 2016 10:34:51 AM Eastern Standard Time  
 Printed:            February 16, 2016 10:35:26 AM Eastern Standard Time

**Description: 209MIX\_PCB 150822CXU**

**Vial: 9**  
**Date: 11-FEB-2016**  
**Time: 00:34:32**  
**Instrument: Autospec-UltimaE**

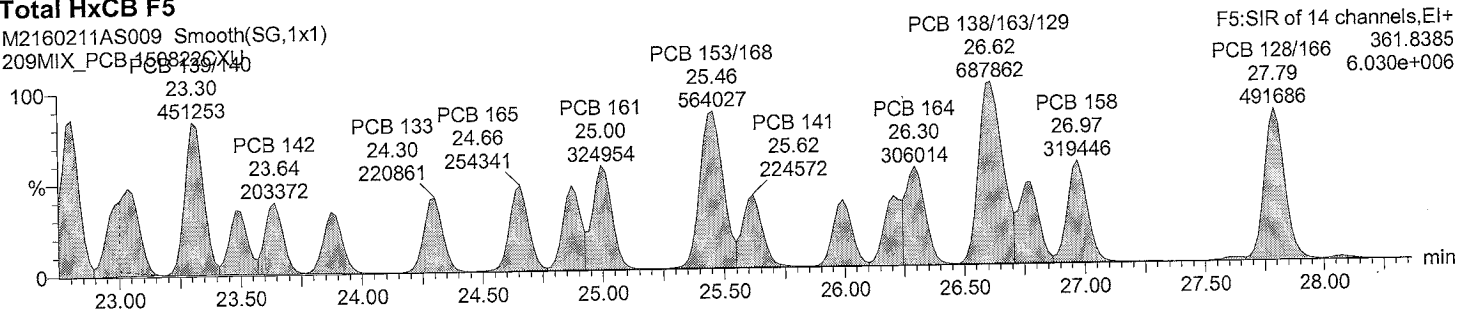
**Total HxCB F5**

M2160211AS009 Smooth(SG,1x1)  
 209MIX\_PCB 150822CXU



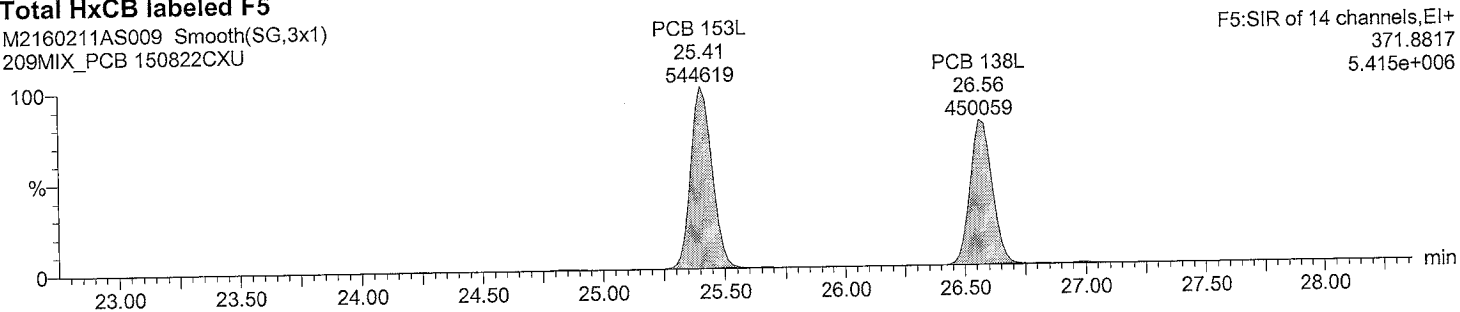
**Total HxCB F5**

M2160211AS009 Smooth(SG,1x1)  
 209MIX\_PCB 150822CXU



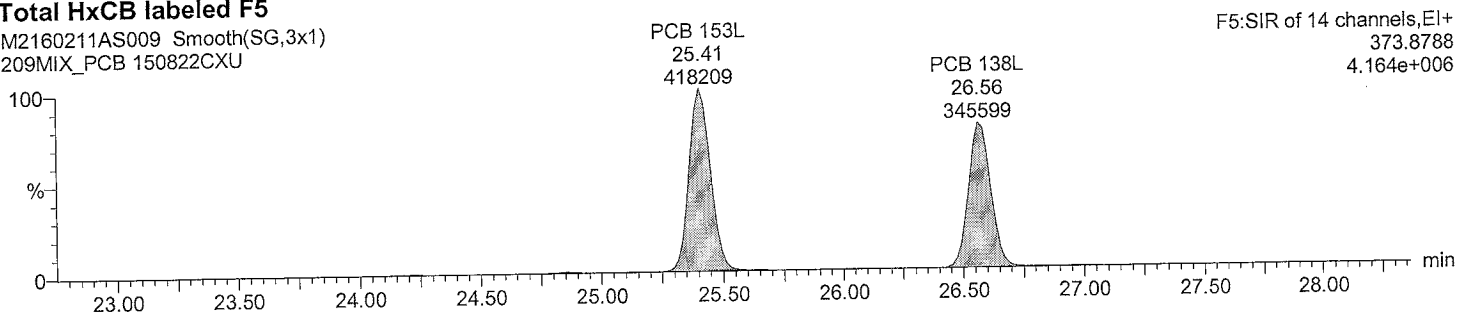
**Total HxCB labeled F5**

M2160211AS009 Smooth(SG,3x1)  
 209MIX\_PCB 150822CXU



**Total HxCB labeled F5**

M2160211AS009 Smooth(SG,3x1)  
 209MIX\_PCB 150822CXU





Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

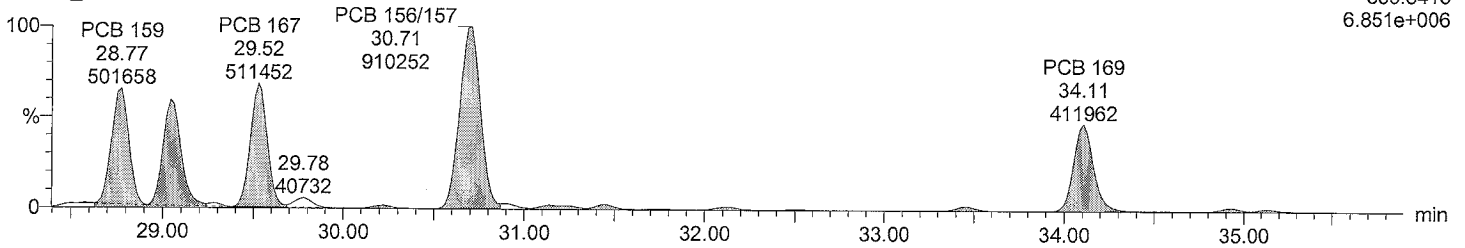
Time: 00:34:32

Instrument: Autospec-UltimaE

Total HxCB F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

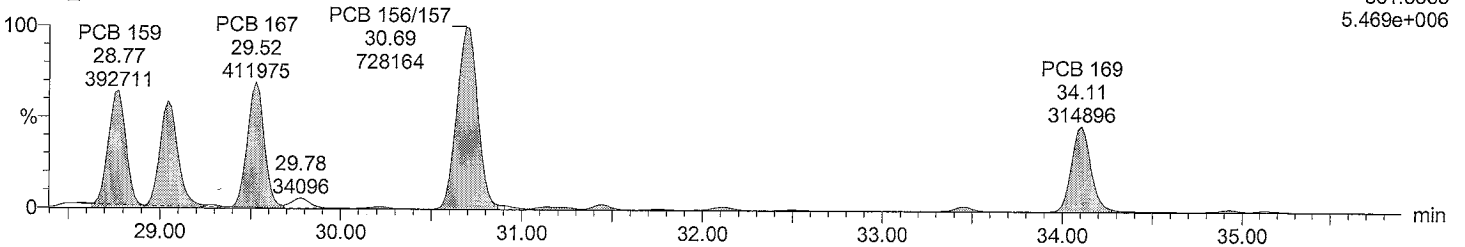
F6:SIR of 14 channels,EI+  
359.8415  
6.851e+006



Total HxCB F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

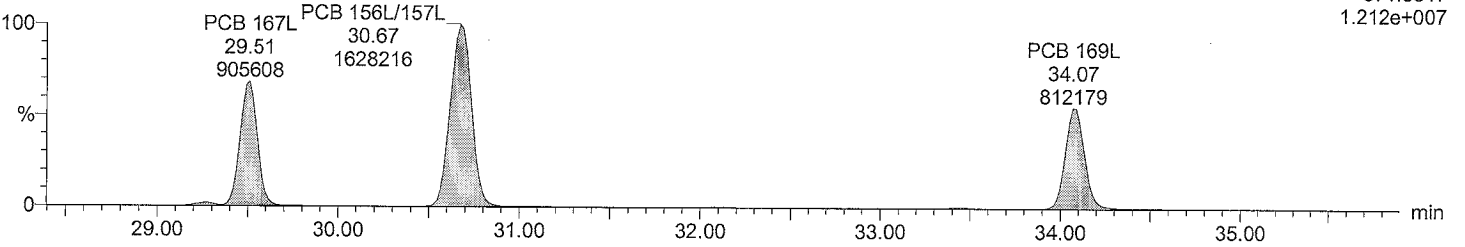
F6:SIR of 14 channels,EI+  
361.8385  
5.469e+006



Total HxCB labeled F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

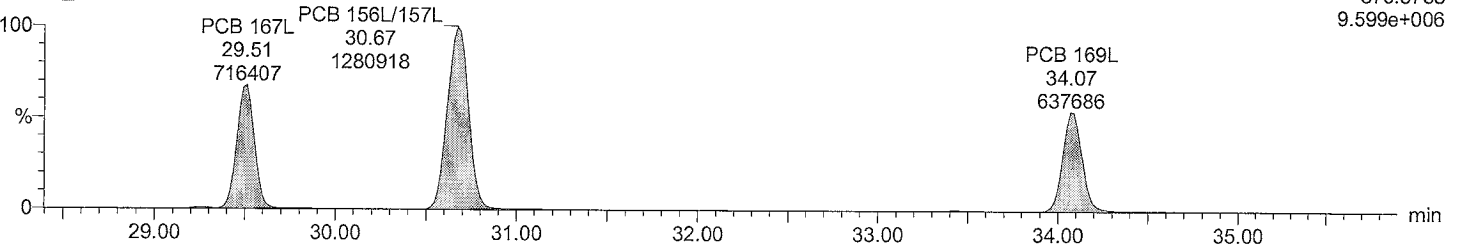
F6:SIR of 14 channels,EI+  
371.8817  
1.212e+007



Total HxCB labeled F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F6:SIR of 14 channels,EI+  
373.8788  
9.599e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

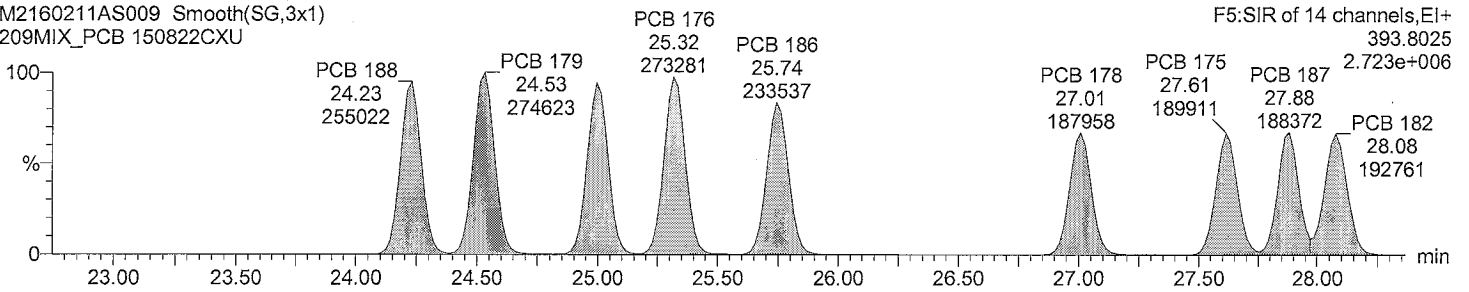
Date: 11-FEB-2016

Time: 00:34:32

Instrument: Autospec-UltimaE

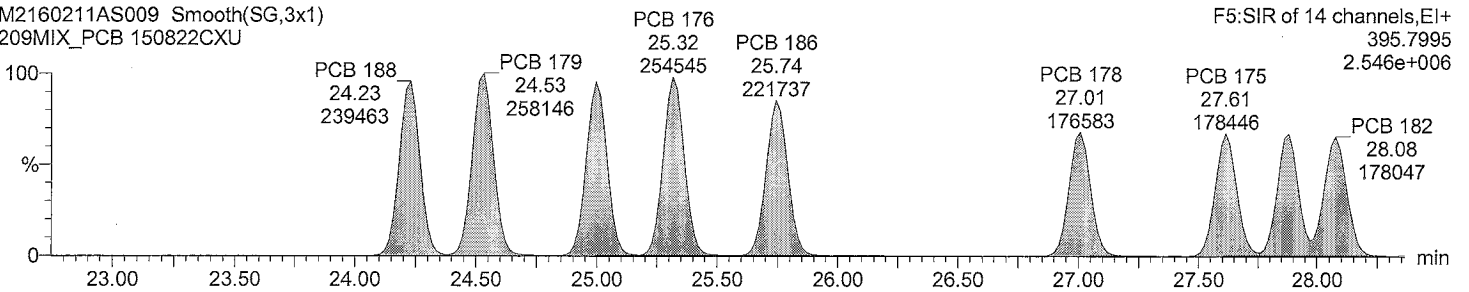
Total HpCB F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



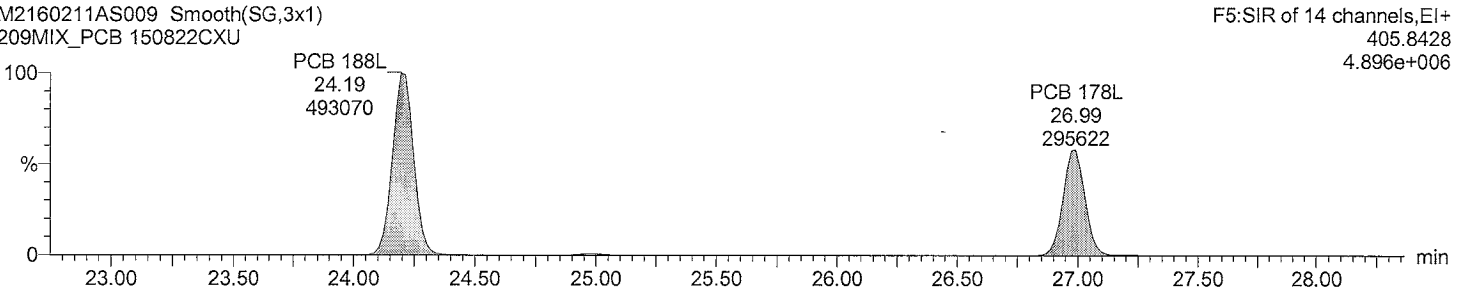
Total HpCB F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



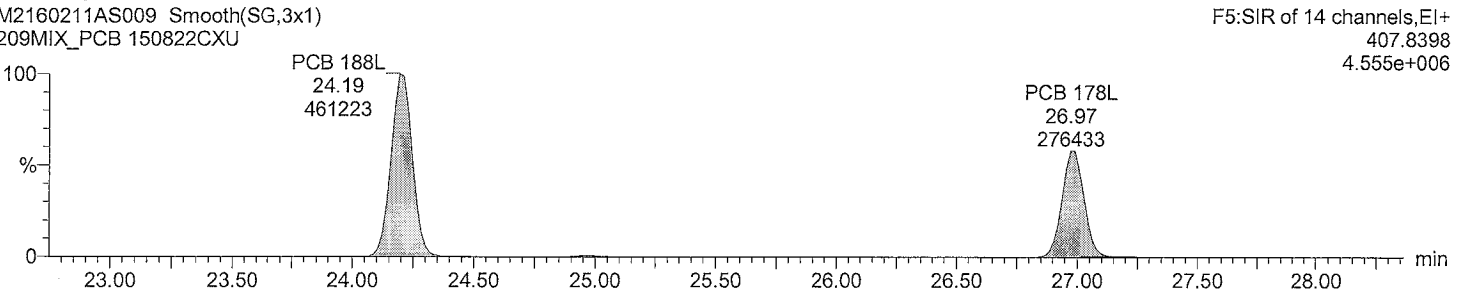
Total HpCB labeled F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



Total HpCB labeled F5

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

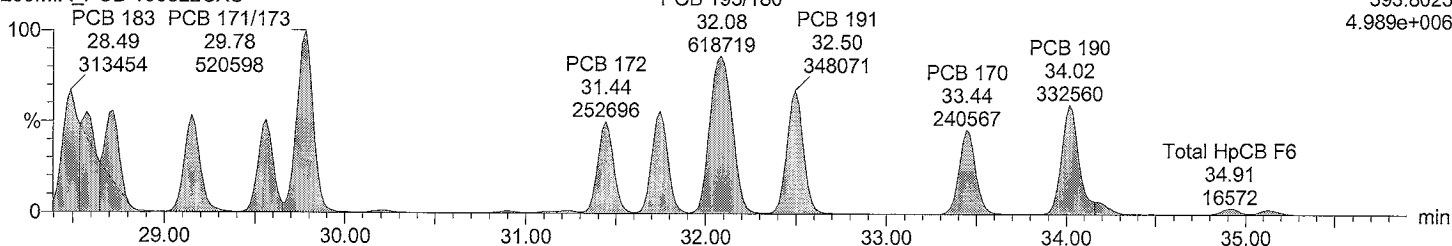
Time: 00:34:32

Instrument: Autospec-UltimaE

Total HpCB F6

M2160211AS009 Smooth(SG,1x1)  
209MIX\_PCB 150822CXU

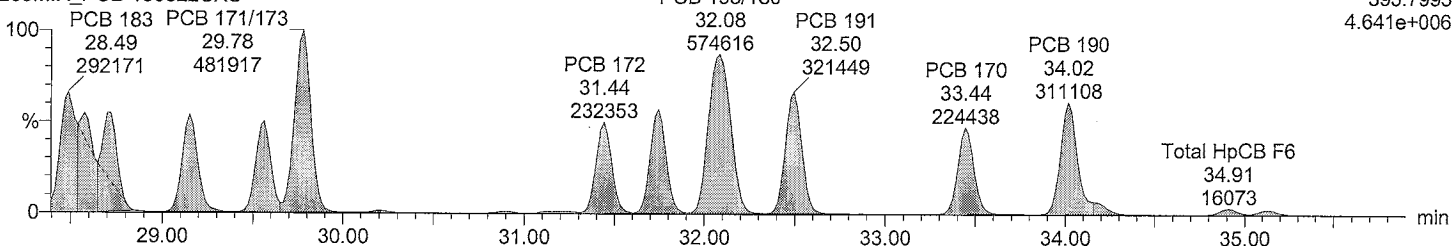
F6:SIR of 14 channels,EI+  
393.8025  
4.989e+006



Total HpCB F6

M2160211AS009 Smooth(SG,1x1)  
209MIX\_PCB 150822CXU

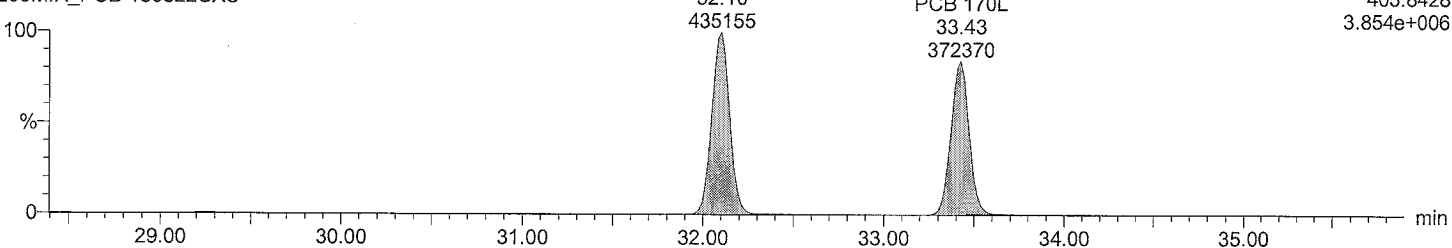
F6:SIR of 14 channels,EI+  
395.7995  
4.641e+006



Total HpCB labeled F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

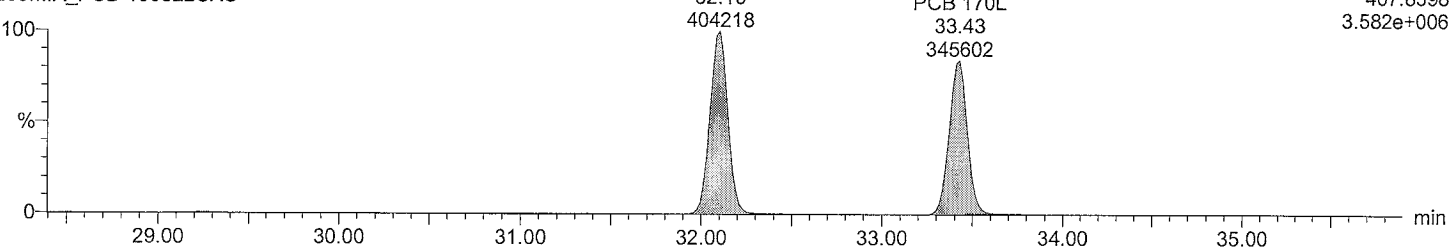
F6:SIR of 14 channels,EI+  
405.8428  
3.854e+006



Total HpCB labeled F6

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F6:SIR of 14 channels,EI+  
407.8398  
3.582e+006



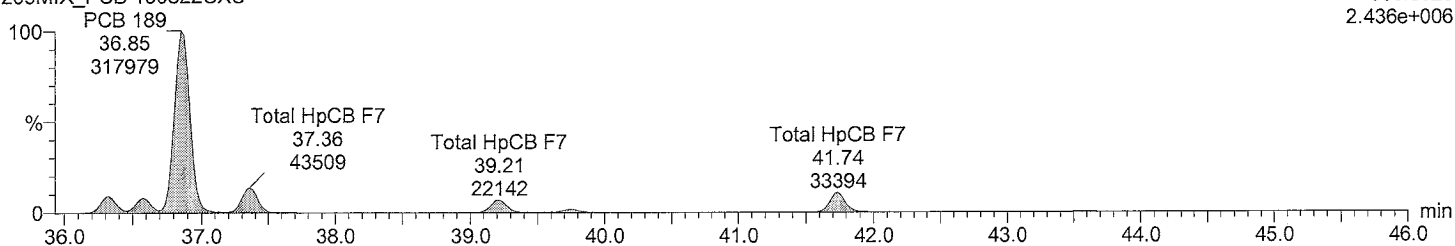
Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld  
Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU  
Vial: 9  
Date: 11-FEB-2016  
Time: 00:34:32  
Instrument: Autospec-UltimaE

Total HpCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

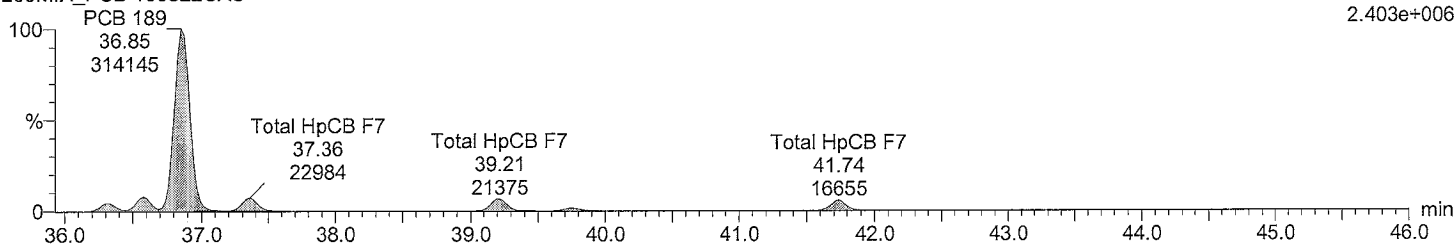
F7:SIR of 18 channels,EI+  
393.8025  
2.436e+006



Total HpCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

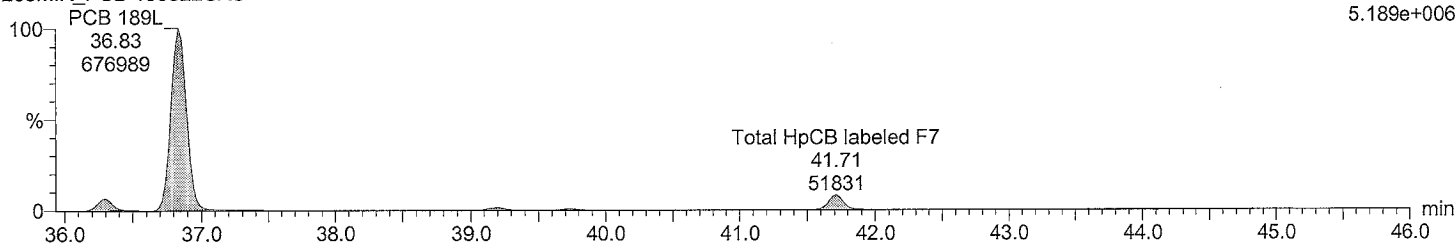
F7:SIR of 18 channels,EI+  
395.7995  
2.403e+006



Total HpCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

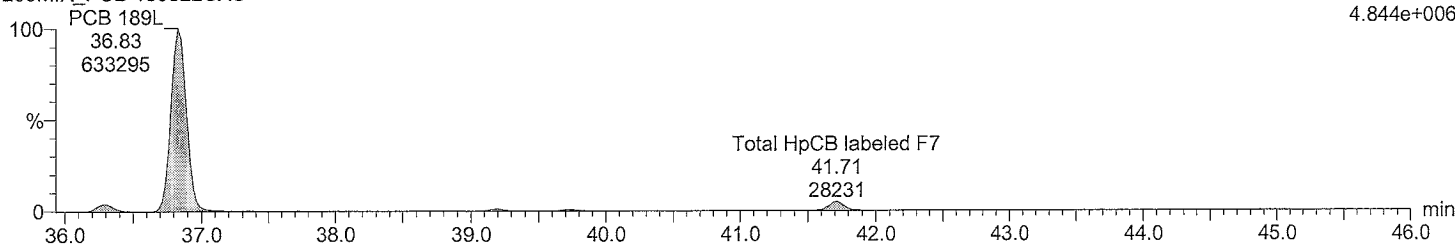
F7:SIR of 18 channels,EI+  
405.8428  
5.189e+006



Total HpCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F7:SIR of 18 channels,EI+  
407.8398  
4.844e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time  
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

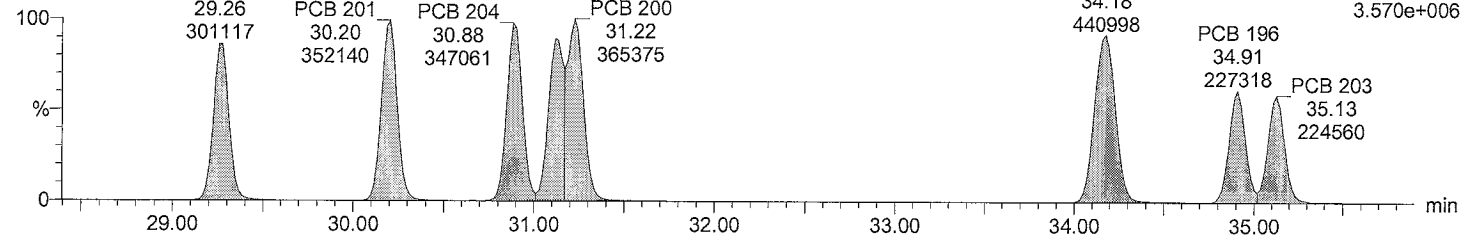
Time: 00:34:32

Instrument: Autospec-UltimaE

Total OcCB F6

M2160211AS009 Smooth(SG,1x1)

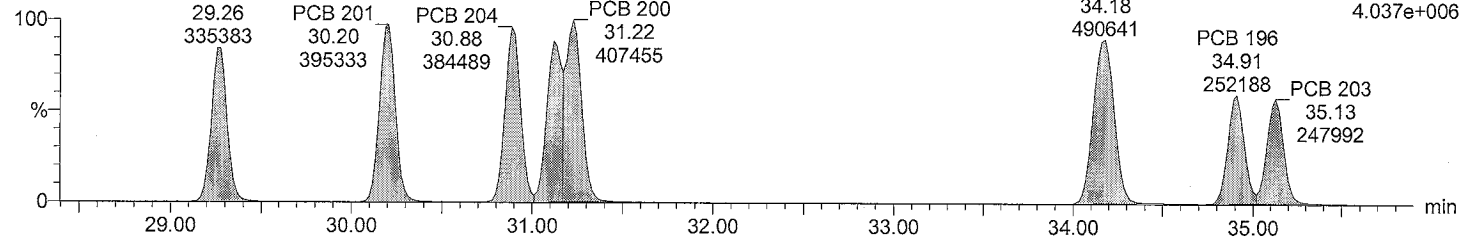
209MIX\_PCB 150822CXU



Total OcCB F6

M2160211AS009 Smooth(SG,1x1)

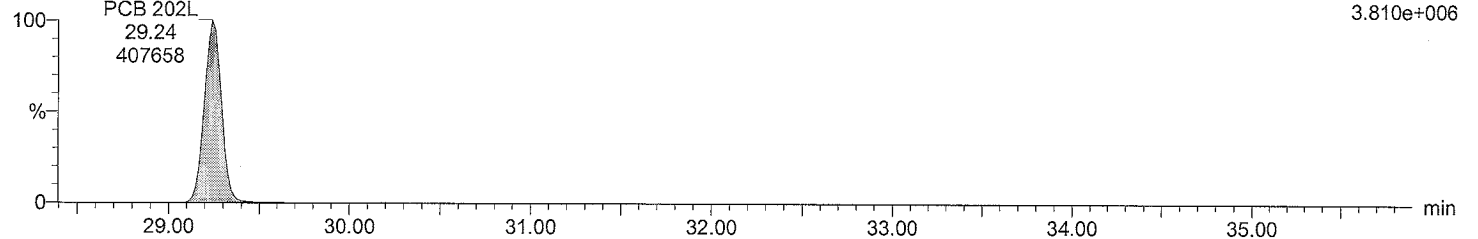
209MIX\_PCB 150822CXU



Total OcCB labeled F6

M2160211AS009 Smooth(SG,3x1)

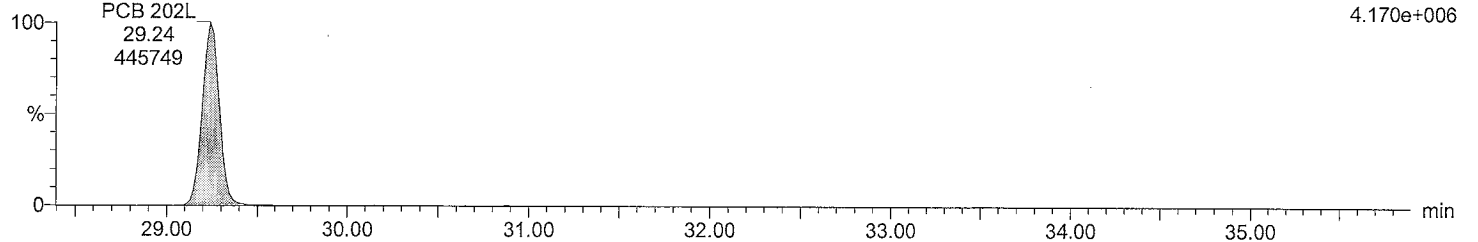
209MIX\_PCB 150822CXU



Total OcCB labeled F6

M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

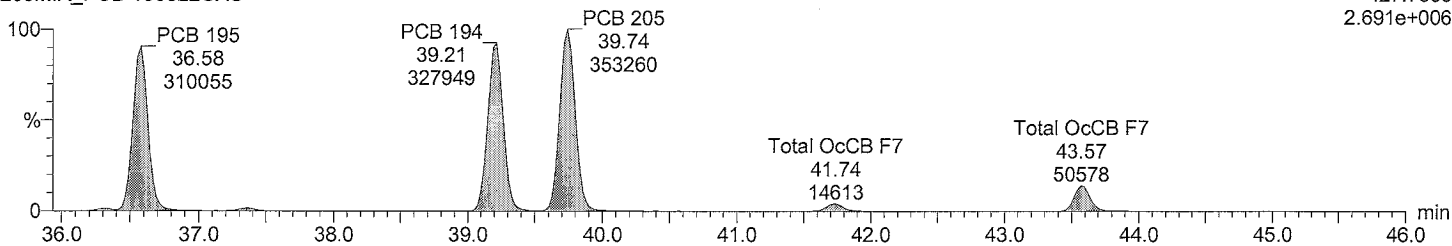
Time: 00:34:32

Instrument: Autospec-UltimaE

Total OcCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

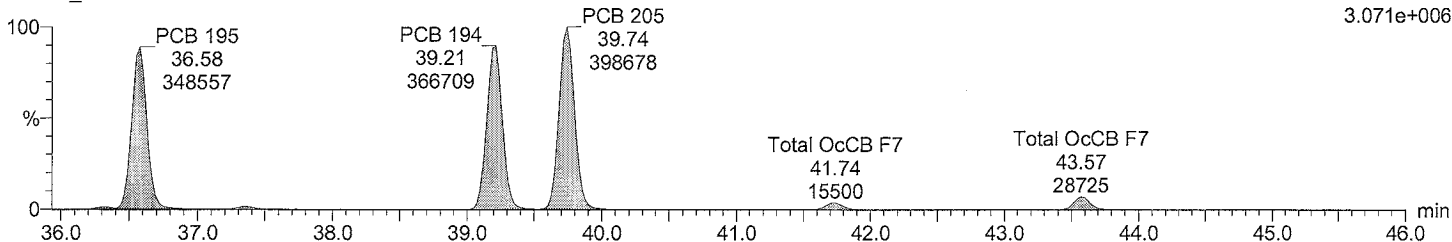
F7:SIR of 18 channels,EI+  
427.7635  
2.691e+006



Total OcCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

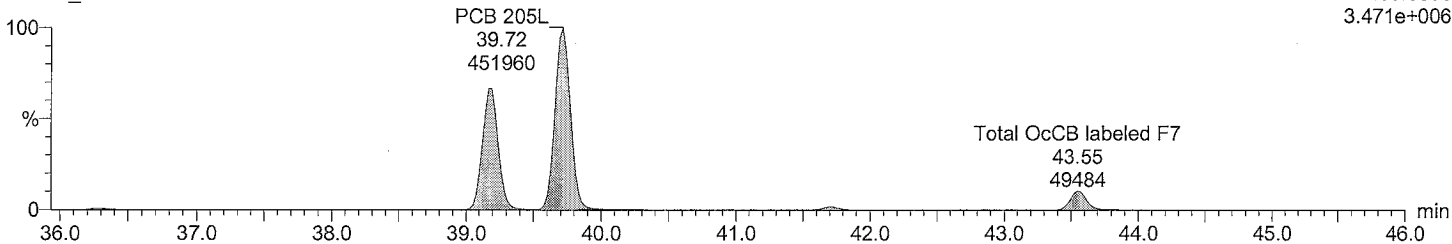
F7:SIR of 18 channels,EI+  
429.7606  
3.071e+006



Total OcCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

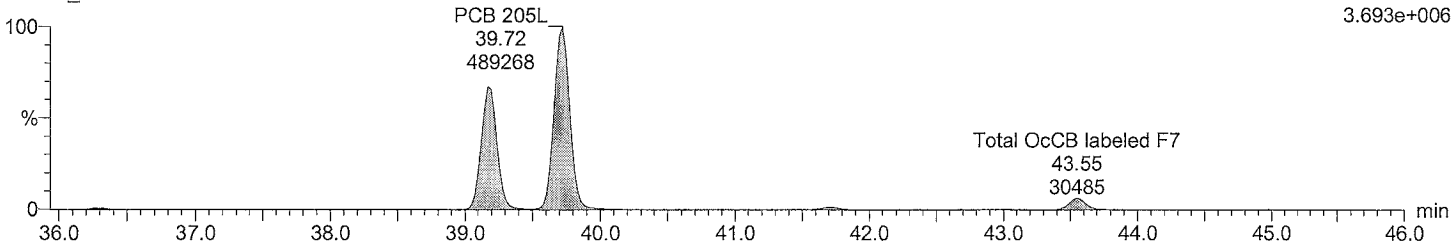
F7:SIR of 18 channels,EI+  
439.8038  
3.471e+006



Total OcCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F7:SIR of 18 channels,EI+  
441.8008  
3.693e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

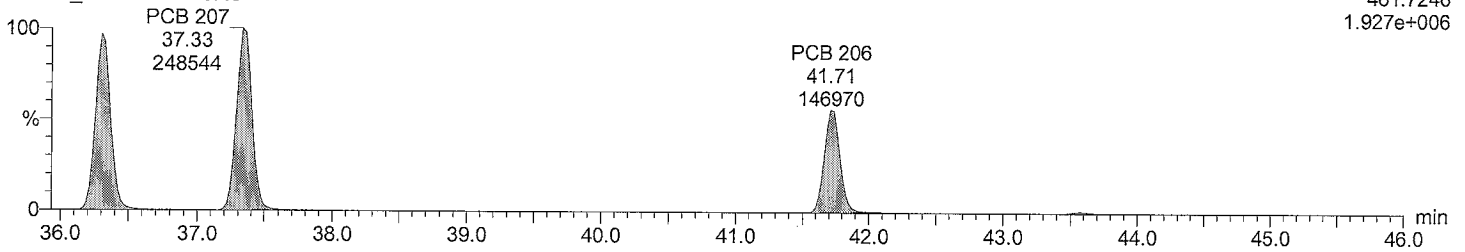
Time: 00:34:32

Instrument: Autospec-UltimaE

Total NoCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

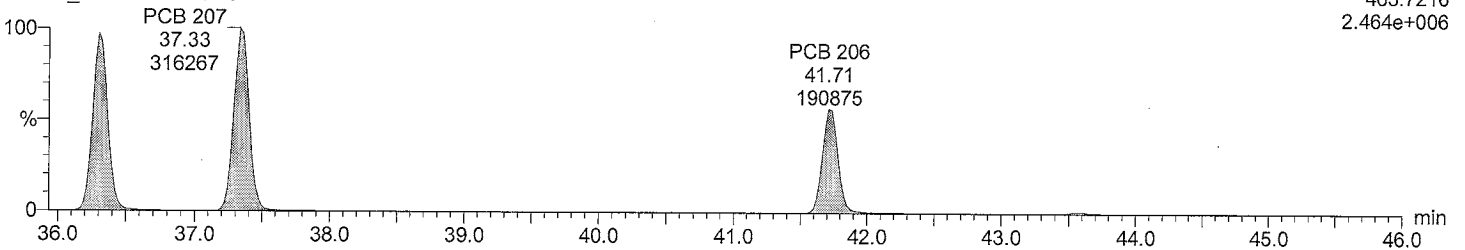
F7:SIR of 18 channels, EI+  
461.7246  
1.927e+006



Total NoCB F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

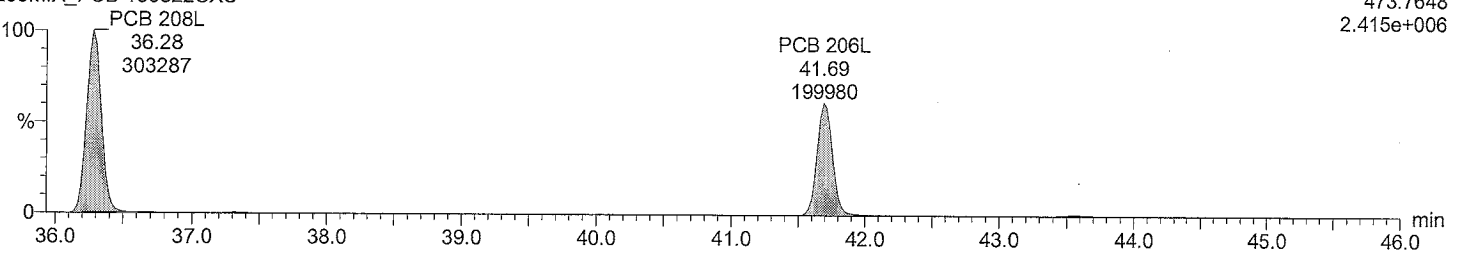
F7:SIR of 18 channels, EI+  
463.7216  
2.464e+006



Total NoCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

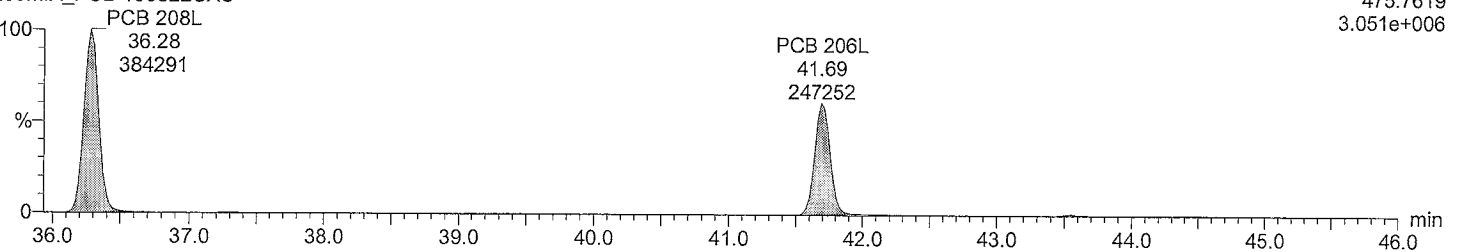
F7:SIR of 18 channels, EI+  
473.7648  
2.415e+006



Total NoCB labeled F7

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

F7:SIR of 18 channels, EI+  
475.7619  
3.051e+006



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

**Description: 209MIX\_PCB 150822CXU**

**Vial: 9**

**Date: 11-FEB-2016**

**Time: 00:34:32**

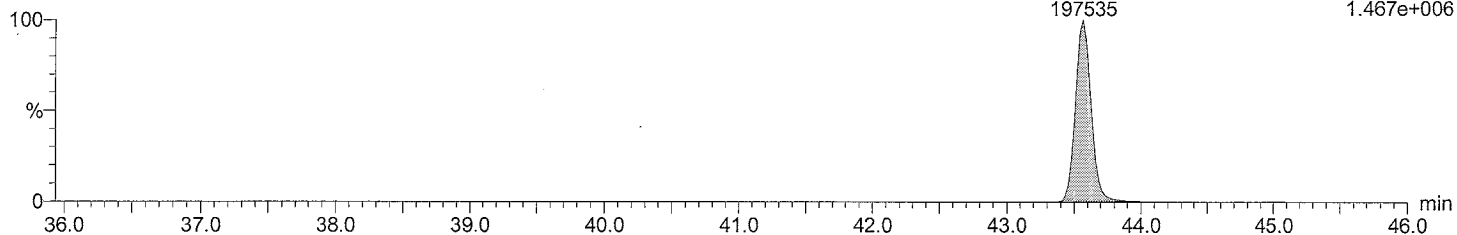
**Instrument: Autospec-UltimaE**

**Total DeCB F7**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 209  
43.57  
197535

F7:SIR of 18 channels,EI+  
497.6826  
1.467e+006

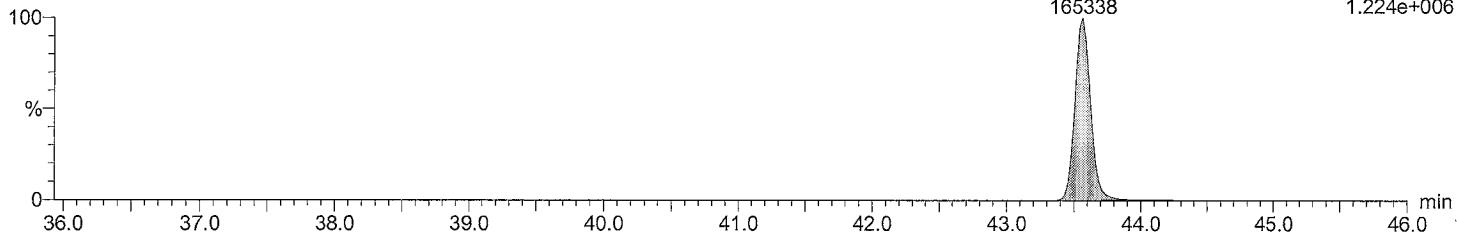


**Total DeCB F7**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 209  
43.57  
165338

F7:SIR of 18 channels,EI+  
499.6797  
1.224e+006

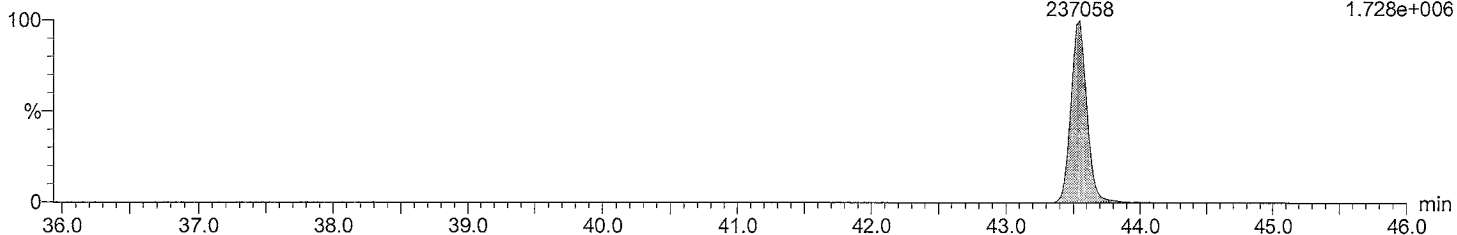


**Total DeCB labeled F7**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 209L  
43.55  
237058

F7:SIR of 18 channels,EI+  
509.7229  
1.728e+006

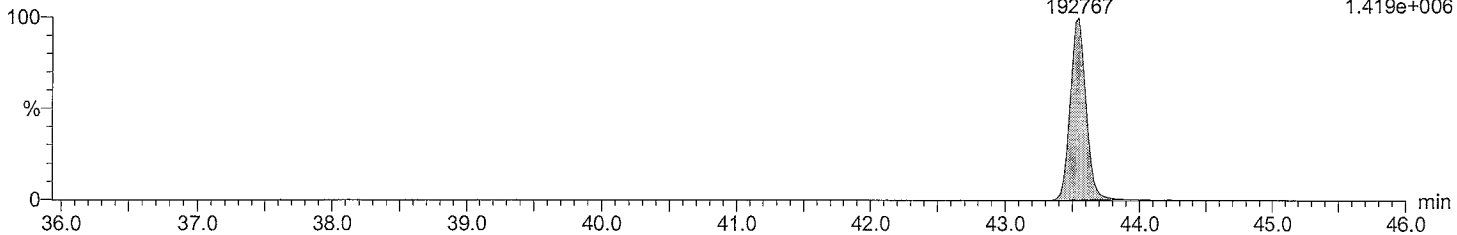


**Total DeCB labeled F7**

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

PCB 209L  
43.55  
192767

F7:SIR of 18 channels,EI+  
511.7199  
1.419e+006





Acquired Date

Dataset: C:\MassLynx\Default.pro\QLDM2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

Time: 00:34:32

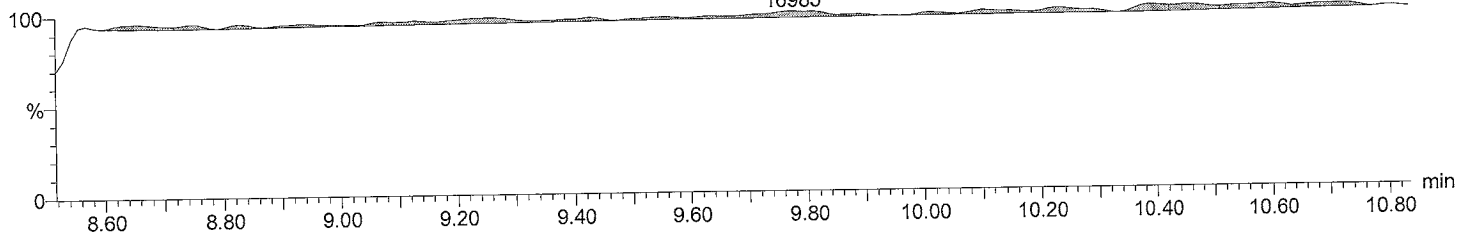
Instrument: Autospec-UltimaE

lockmass F1

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

lockmass F1  
9.78  
16985

F1:SIR of 10 channels,EI+  
218.9856  
3.819e+006

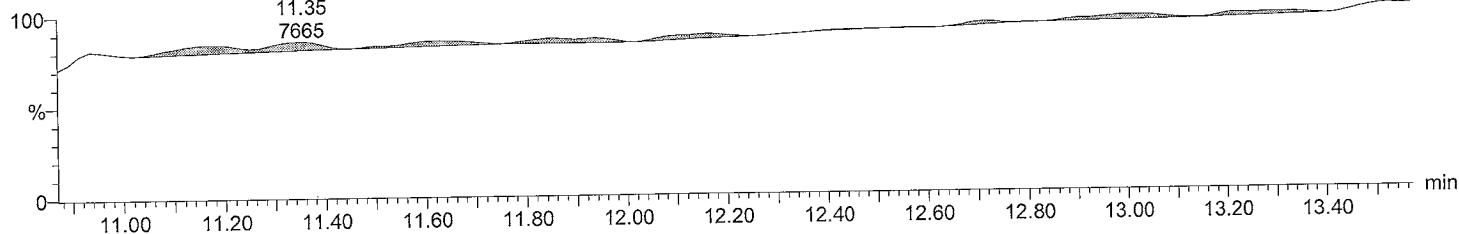


lockmass F2

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

lockmass F2  
11.35  
7665

F2:SIR of 16 channels,EI+  
242.9856  
1.384e+006

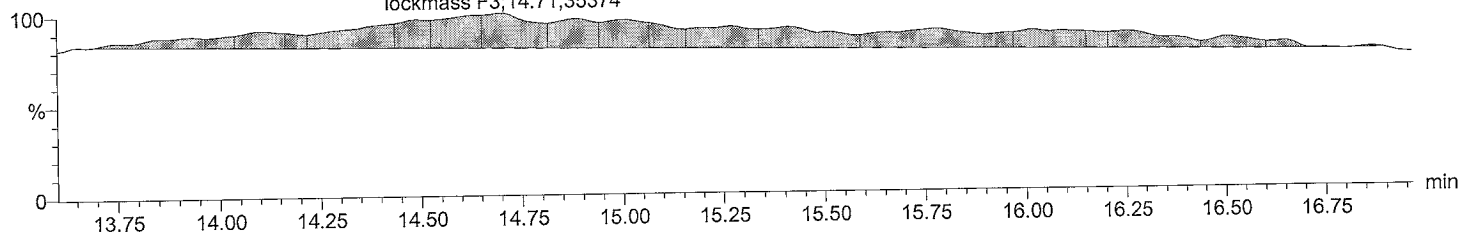


lockmass F3

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

lockmass F3;14.71;35374

F3:SIR of 14 channels,EI+  
292.9824  
1.307e+006



lockmass F4

M2160211AS009 Smooth(SG,3x1)  
209MIX\_PCB 150822CXU

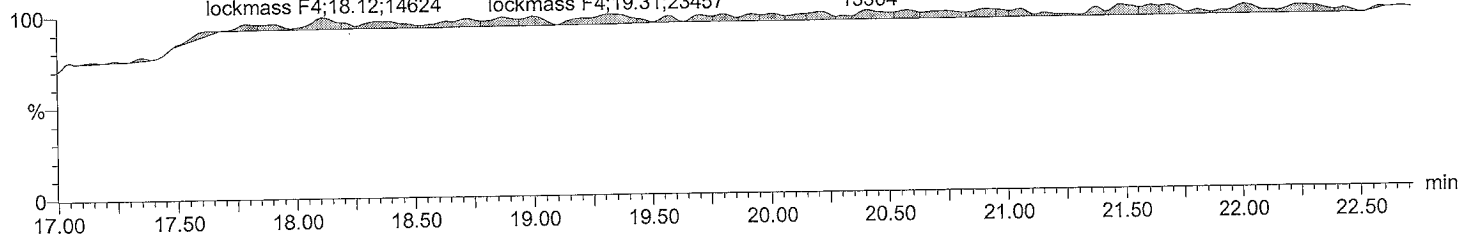
lockmass F4;18.12;14624

lockmass F4;19.31;23457

lockmass F4  
20.42  
13304

lockmass F4  
21.49  
13040

F4:SIR of 14 channels,EI+  
330.9792  
1.937e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Description: 209MIX\_PCB 150822CXU

Vial: 9

Date: 11-FEB-2016

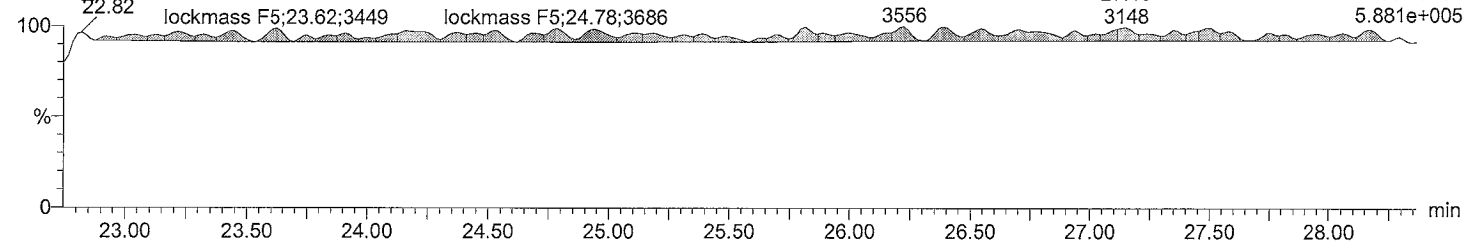
Time: 00:34:32

Instrument: Autospec-UltimaE

lockmass F5

M2160211AS009 Smooth(SG,3x1)

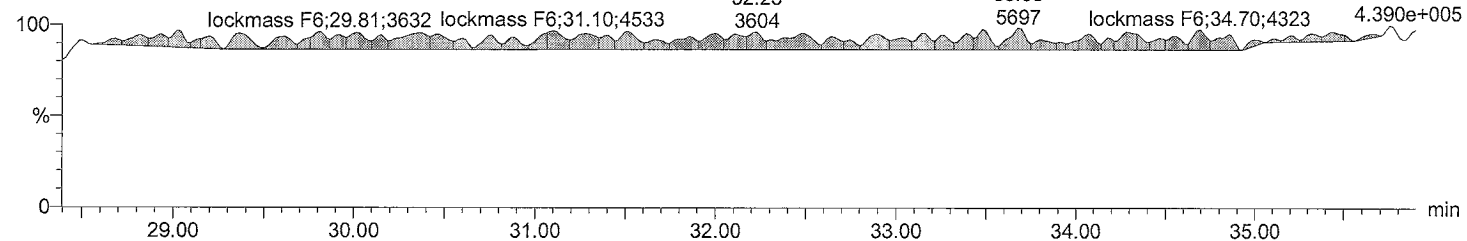
209MIX\_PCB 150822CXU



lockmass F6

M2160211AS009 Smooth(SG,3x1)

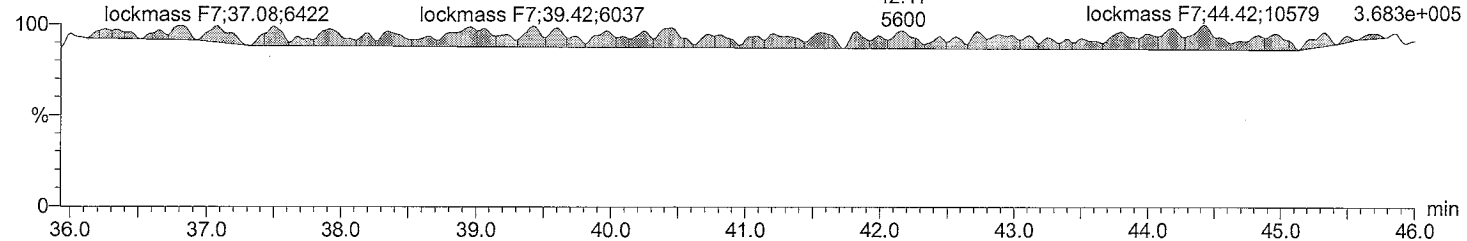
209MIX\_PCB 150822CXU



lockmass F7

M2160211AS009 Smooth(SG,3x1)

209MIX\_PCB 150822CXU



Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Date	Time	Event	RT	Details	Comments
16-Feb-16	10:10:33	Process Integrate			
16-Feb-16	10:10:33	Process Calibrate			
16-Feb-16	10:10:34	Process Quantify			
16-Feb-16	10:10:34	Dataset Created			
16-Feb-16	10:10:50	Peak added	41.713	Sample:M2160211AS009, Compound:Total NoC...	
16-Feb-16	10:11:18	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M21602...	
16-Feb-16	10:13:57	Peak deleted	11.687	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Pre modification peak	11.540	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Peak modified	11.498	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Peak added	11.540	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Peak deleted	11.687	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Pre modification peak	11.540	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Peak modified	11.498	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:13:57	Peak added	11.540	Sample:M2160211AS009, Compound:Total DiC...	
16-Feb-16	10:14:47	Pre modification peak	12.858	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:14:47	Peak modified	12.858	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:14:47	Peak added	12.900	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:14:47	Pre modification peak	12.858	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:14:47	Peak modified	12.858	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:14:47	Peak added	12.900	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	16.422	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	16.422	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	16.169	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	16.169	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	14.525	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	14.525	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	16.440	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	16.440	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	16.169	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	16.169	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak deleted	14.633	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Pre modification peak	14.525	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:16:30	Peak modified	14.525	Sample:M2160211AS009, Compound:Total TriC...	
16-Feb-16	10:17:21	Pre modification peak	15.446	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:17:21	Peak modified	15.519	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:17:21	Pre modification peak	15.374	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:17:21	Peak modified	15.374	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:17:21	Peak added	15.446	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Pre modification peak	21.416	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Peak modified	21.416	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Pre modification peak	18.691	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Peak modified	18.691	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Pre modification peak	18.691	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Peak modified	18.691	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Pre modification peak	21.416	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:18:25	Peak modified	21.416	Sample:M2160211AS009, Compound:Total TeC...	
16-Feb-16	10:20:22	Pre modification peak	20.615	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	20.615	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	20.223	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	20.223	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak deleted	20.063	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak deleted	18.103	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	17.907	Sample:M2160211AS009, Compound:Total PeC...	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

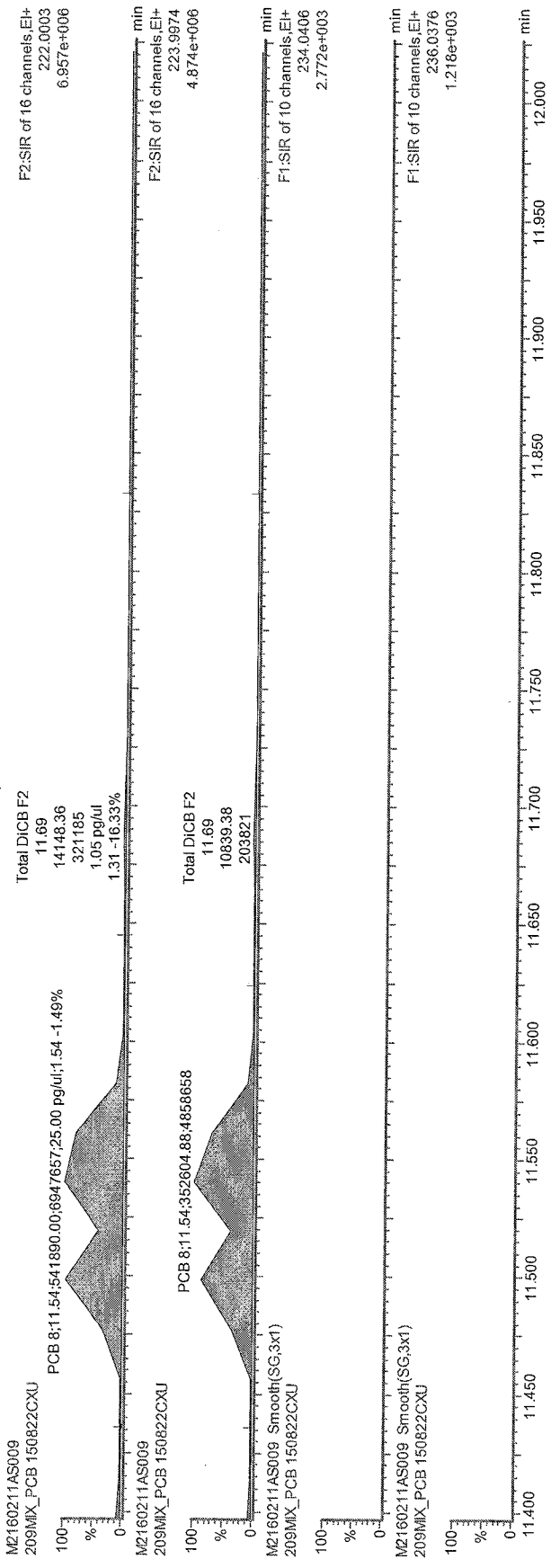
Date	Time	Event	RT	Details	Comments
16-Feb-16	10:20:22	Peak modified	17.907	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak deleted	18.103	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	17.907	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	17.907	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	21.203	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	21.203	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	21.149	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	21.149	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	20.615	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	20.615	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	20.330	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	20.330	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	20.223	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	20.223	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak deleted	20.080	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Pre modification peak	19.777	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:22	Peak modified	19.777	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:38	Pre modification peak	21.203	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:38	Peak modified	21.381	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:38	Pre modification peak	21.149	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:20:38	Peak modified	21.203	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:21:03	Peak deleted	21.256	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:21:03	Peak modified	21.203	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:29:15	Pre modification peak	23.500	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:29:15	Peak modified	23.500	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:29:15	Pre modification peak	23.411	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:29:15	Peak modified	23.411	Sample:M2160211AS009, Compound:Total PeC...	
16-Feb-16	10:30:01	Pre modification peak	23.001	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Peak modified	22.805	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Pre modification peak	23.037	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Peak modified	23.037	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Pre modification peak	23.037	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Peak modified	23.037	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Pre modification peak	23.001	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:01	Peak modified	22.805	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Pre modification peak	26.296	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Peak modified	26.296	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Peak added	26.207	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Pre modification peak	26.296	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Peak modified	26.296	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:30:25	Peak added	26.207	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak deleted	29.775	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak deleted	29.292	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Pre modification peak	29.041	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak modified	29.041	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Pre modification peak	28.773	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak modified	28.773	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak deleted	29.274	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Pre modification peak	29.041	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak modified	29.041	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Pre modification peak	28.773	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:31:22	Peak modified	28.773	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:33:58	Peak deleted	30.903	Sample:M2160211AS009, Compound:Total HxC...	

Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_209MIX\_Test.qld

Last Altered: February 16, 2016 10:34:51 AM Eastern Standard Time

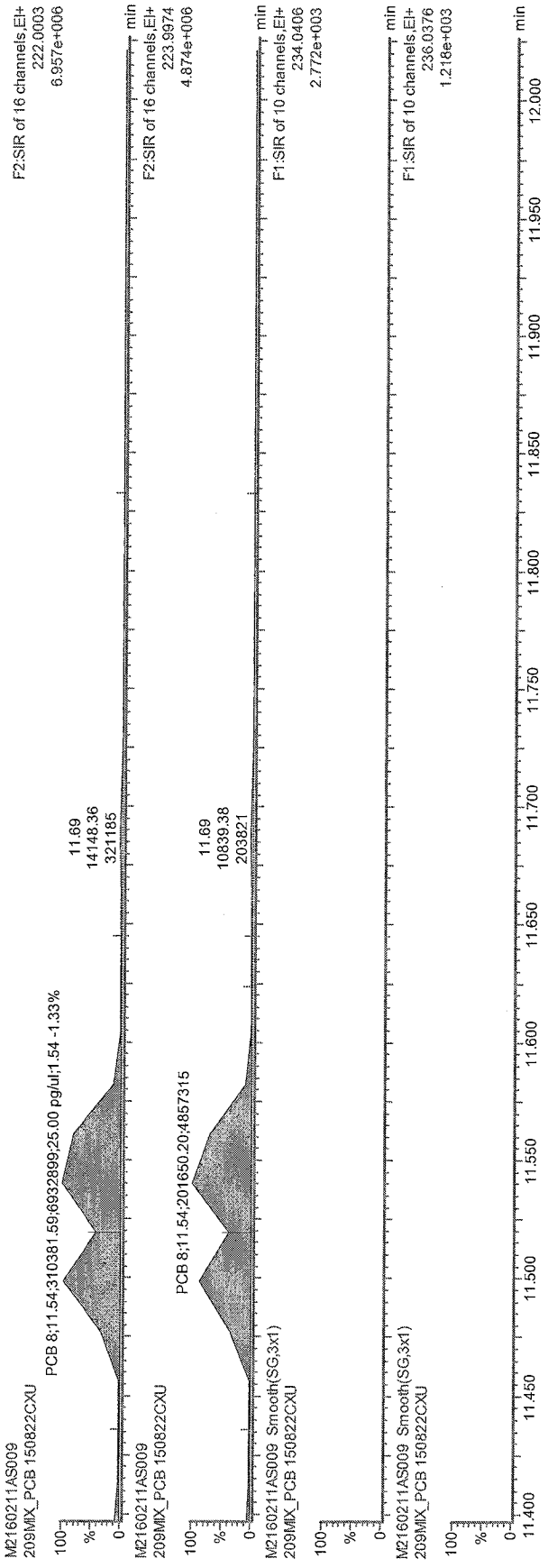
Printed: February 16, 2016 10:35:26 AM Eastern Standard Time

Date	Time	Event	RT	Details	Comments
16-Feb-16	10:33:58	Pre modification peak	30.688	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:33:58	Peak modified	30.688	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:33:58	Pre modification peak	30.706	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:33:58	Peak modified	30.706	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:33:58	Peak deleted	29.775	Sample:M2160211AS009, Compound:Total HxC...	
16-Feb-16	10:34:49	Pre modification peak	28.701	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak modified	28.701	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Pre modification peak	28.576	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak modified	28.576	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak added	28.487	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Pre modification peak	28.719	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak modified	28.719	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Pre modification peak	28.576	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak modified	28.576	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:34:49	Peak added	28.487	Sample:M2160211AS009, Compound:Total HpC...	
16-Feb-16	10:35:24	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M21602...	



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*16/02/16*  
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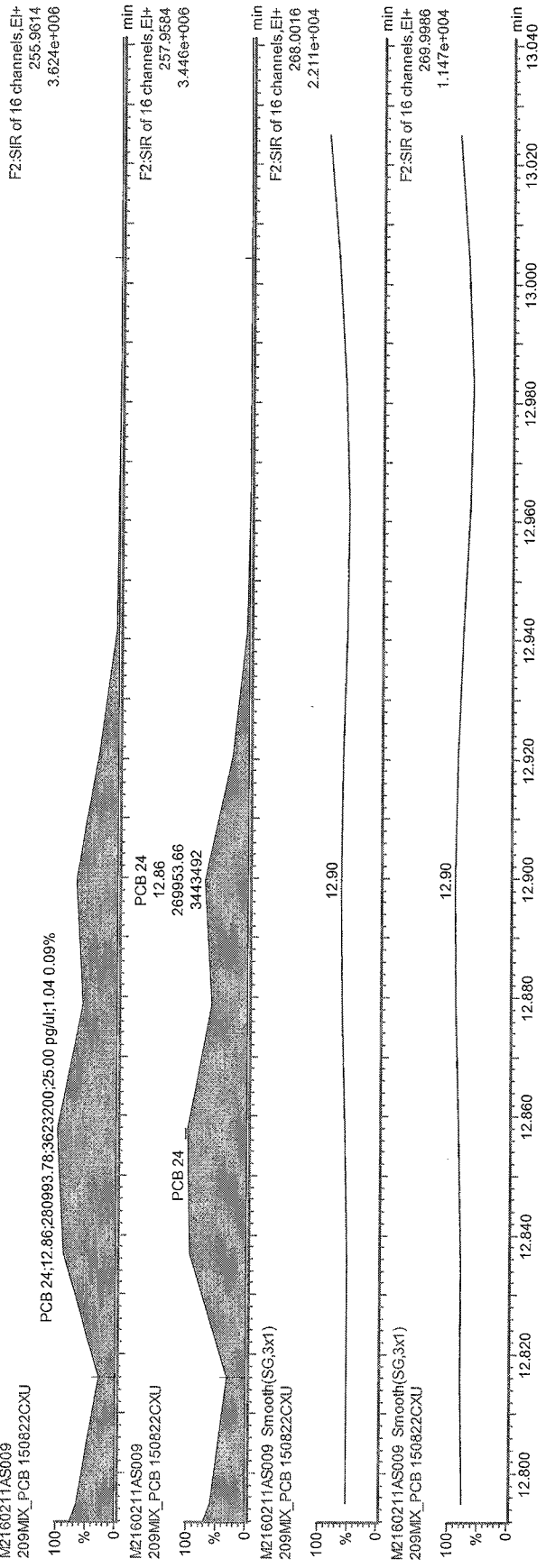


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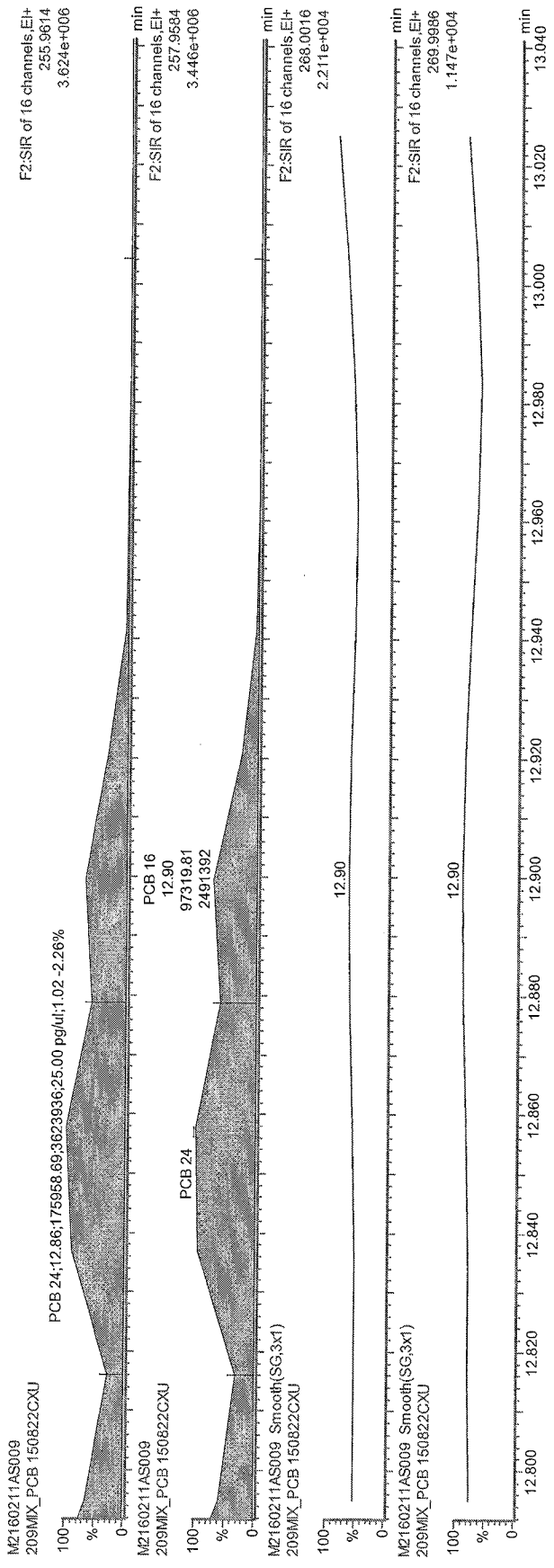
2016-02-16

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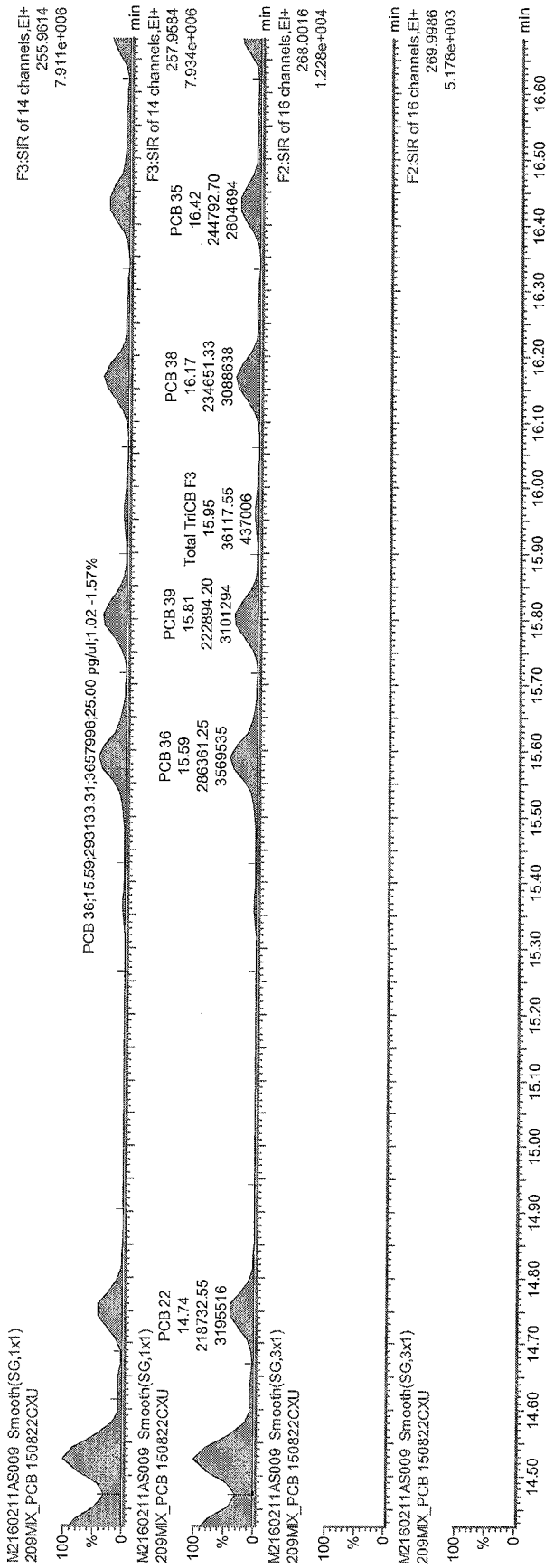


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2016-02-16

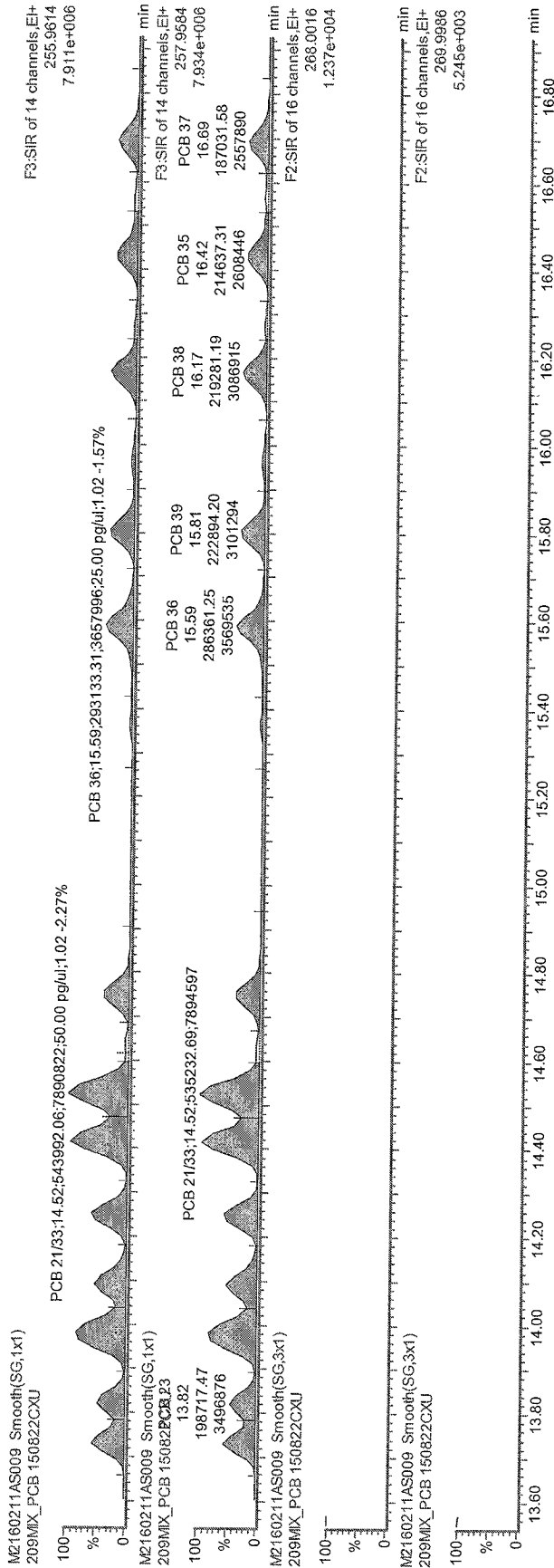
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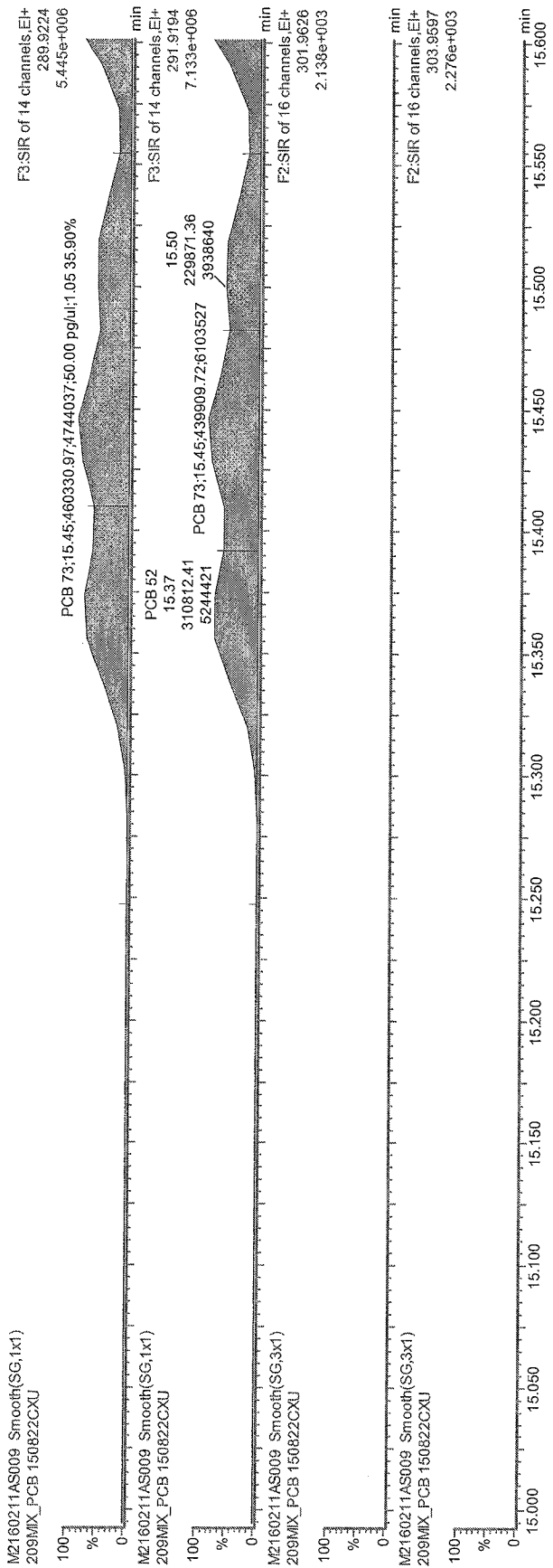


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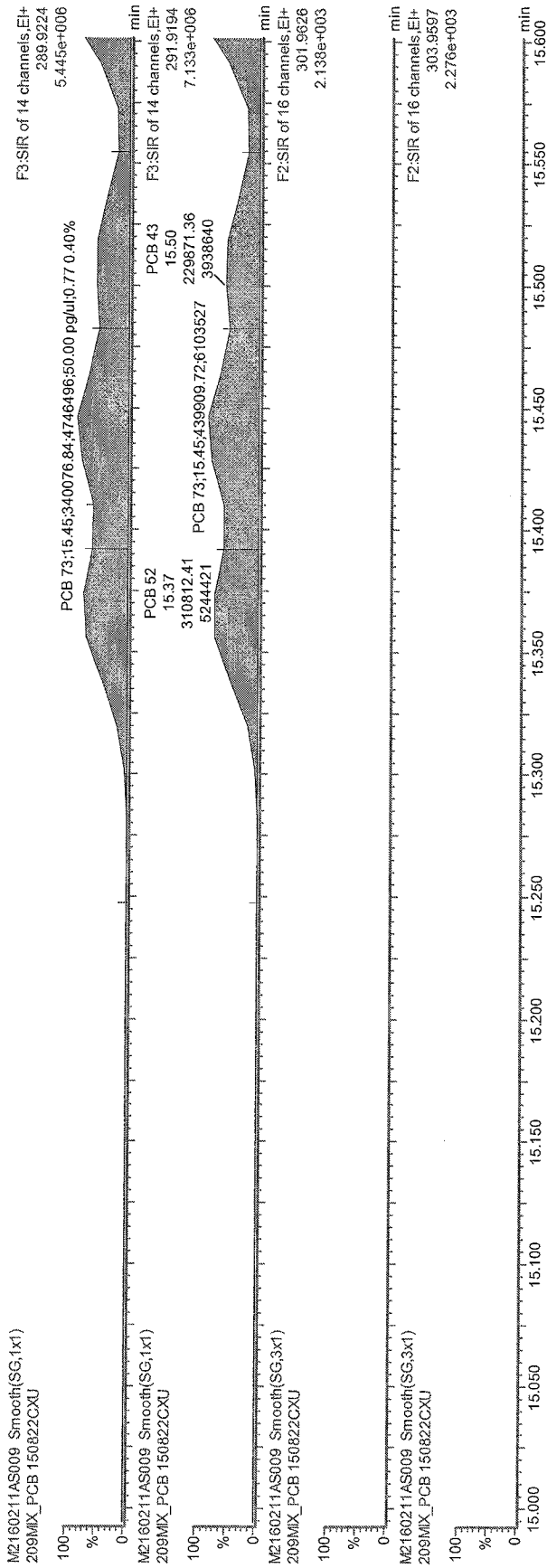


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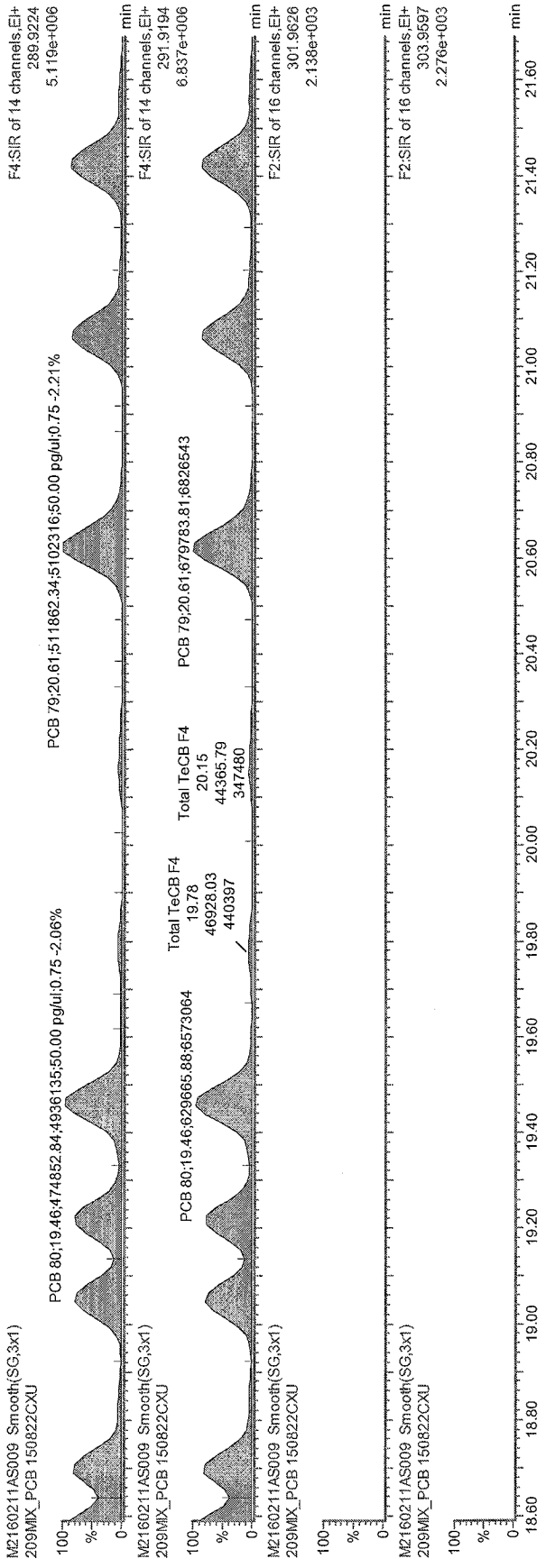
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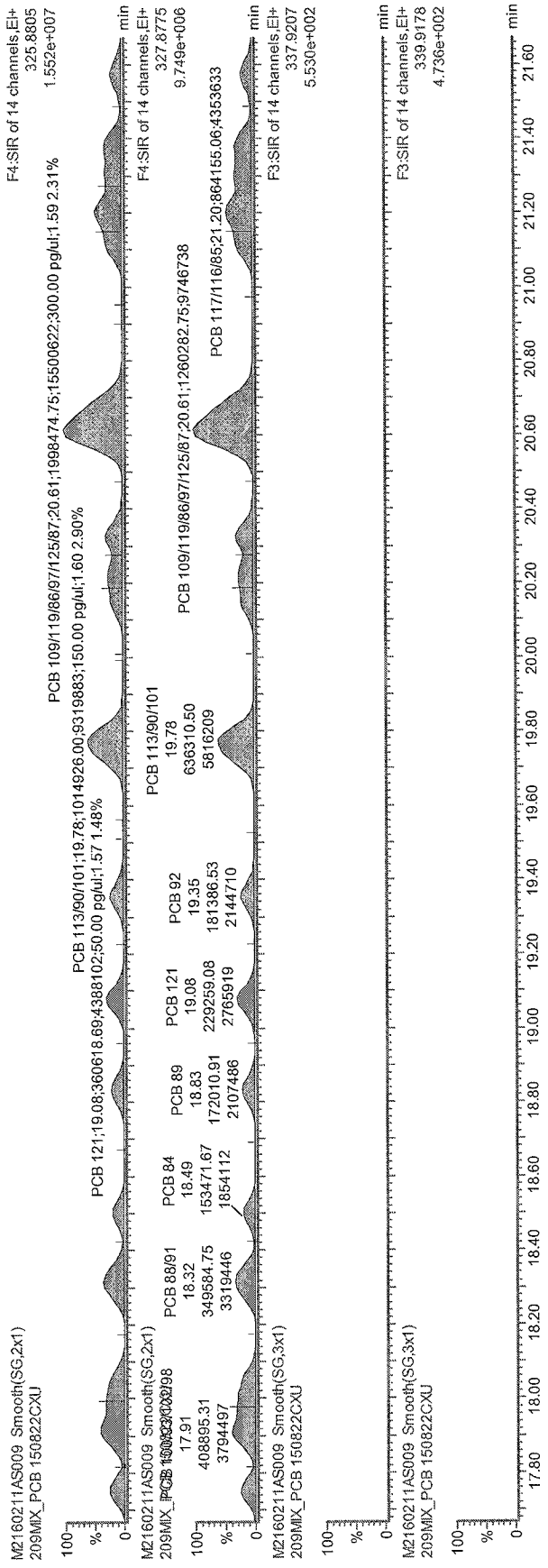
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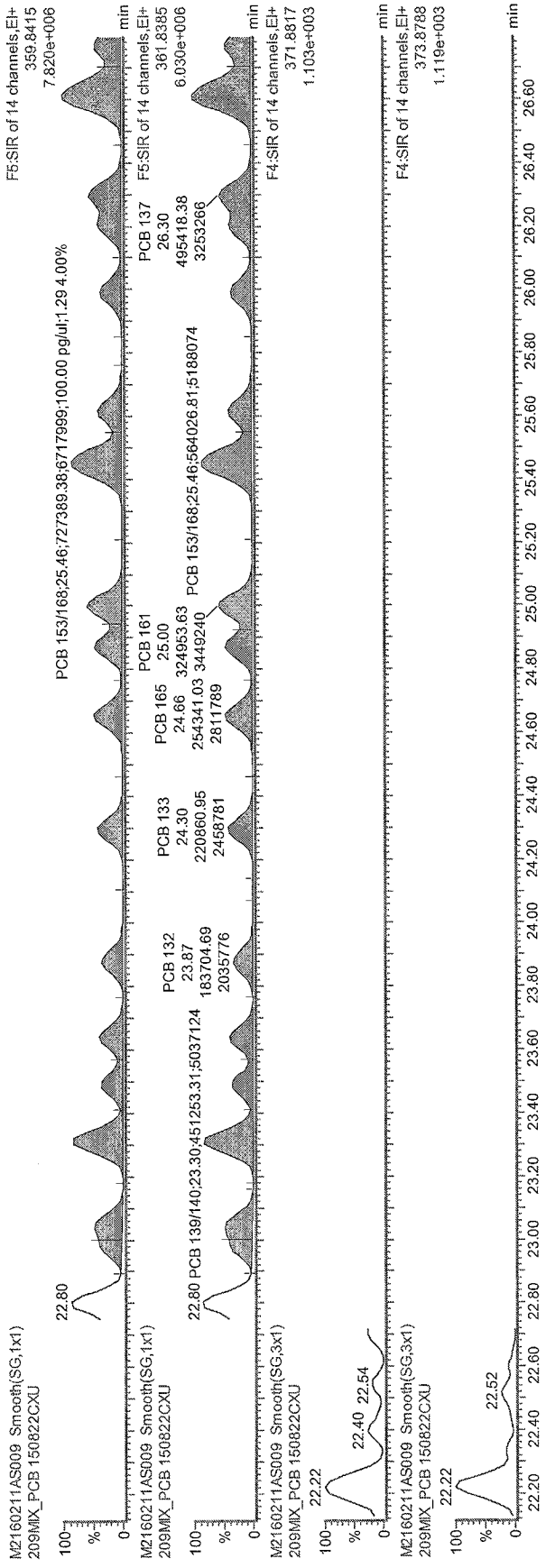


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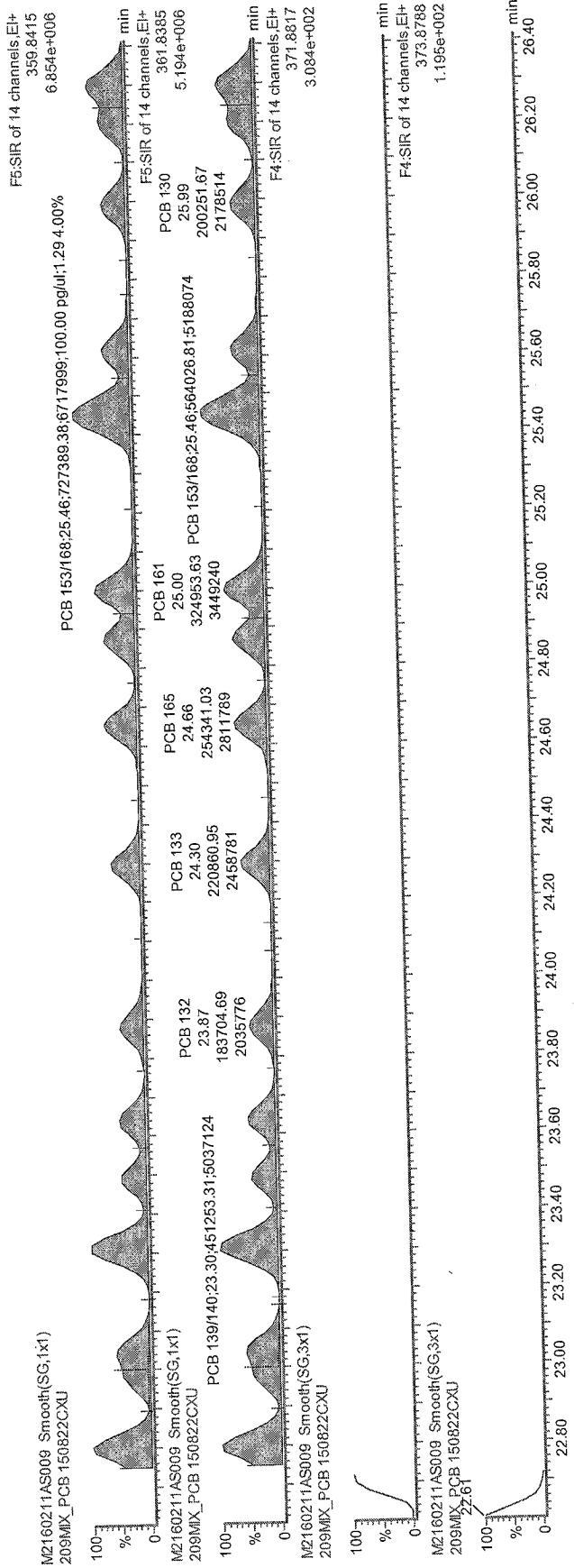






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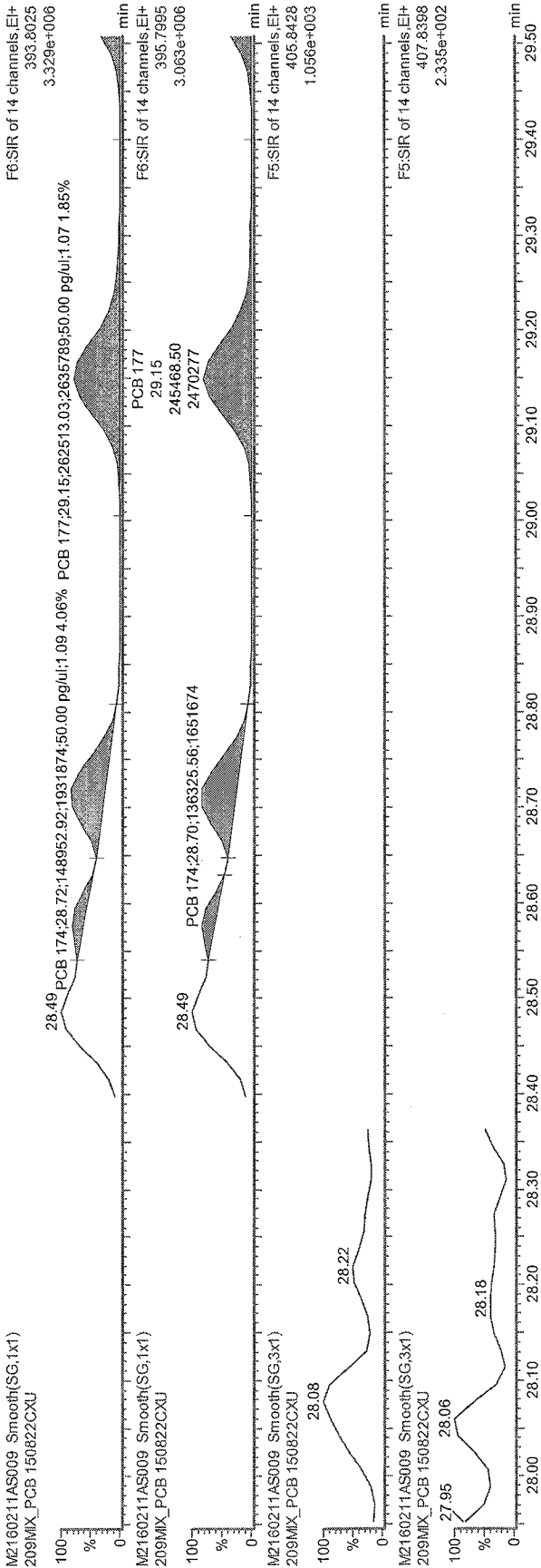
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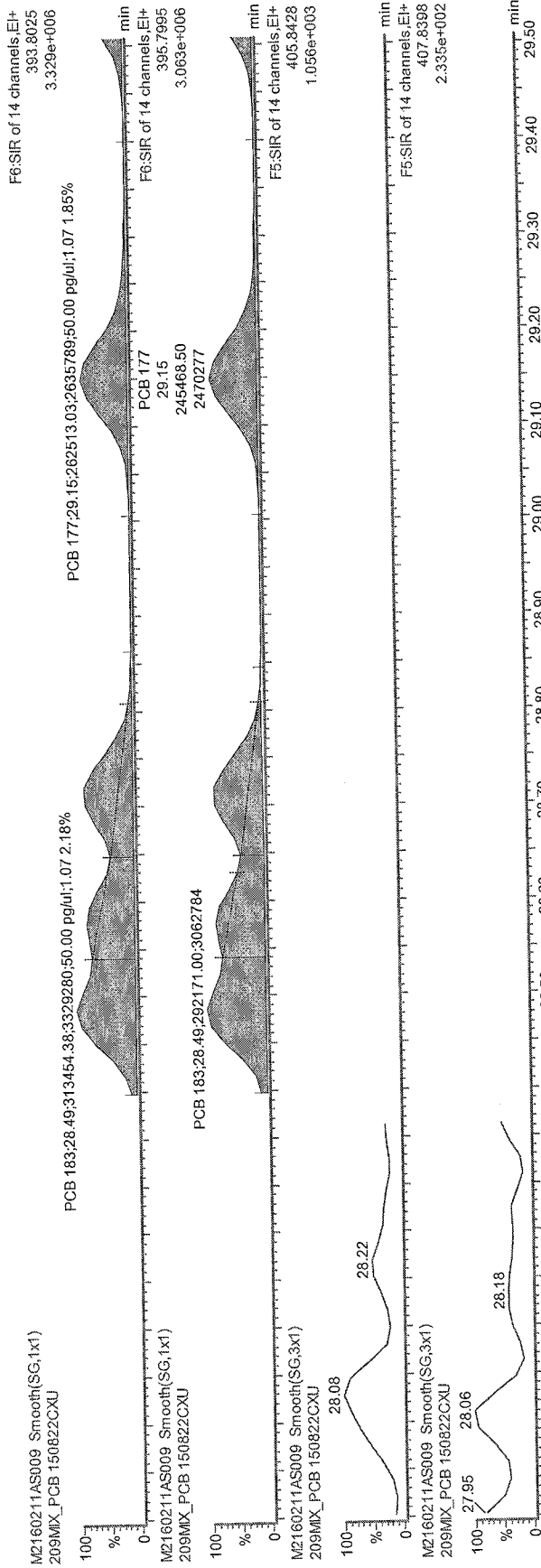


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Dataset: C:\MassLynx\Default.pro\QLD\M2160211A\_samples\_1668A.qld

Last Altered: February 16, 2016 11:16:09 AM Eastern Standard Time

Printed: February 16, 2016 11:17:23 AM Eastern Standard Time

Date	Time	Event	RT	Details	Comments
16-Feb-16	11:14:26	Process Integrate			
16-Feb-16	11:14:27	Process Quantify			
16-Feb-16	11:14:27	Dataset Created			
16-Feb-16	11:15:08	Peak added	12.493	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:08	Peak added	12.493	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.263	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.426	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.534	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.263	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.426	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:41	Peak added	14.534	Sample:M2160211AS012, Compound:Total TriC...	
16-Feb-16	11:15:59	Pre modification peak	15.979	Sample:M2160211AS012, Compound:Total TeC...	
16-Feb-16	11:15:59	Peak modified	15.979	Sample:M2160211AS012, Compound:Total TeC...	
16-Feb-16	11:15:59	Peak added	15.979	Sample:M2160211AS012, Compound:Total TeC...	
16-Feb-16	11:16:08	Peak added	17.399	Sample:M2160211AS012, Compound:Total TeC...	
16-Feb-16	11:16:08	Peak added	17.399	Sample:M2160211AS012, Compound:Total TeC...	
16-Feb-16	11:17:15	Dataset Saved		Saved to 'C:\MassLynx\Default.pro\QLD\M21602...	

16.02.16  


M2160211AS009

RUN#:	ANALYTE TABLE #	PCB NAME:	PCB RT:	RRT REF STD #:	STD RT:	RRT:
	1	1	8.99	165	8.98	1.001
	2	2	10.09	166	10.17	0.992
	3	3	10.17	166	10.17	1.000
	4	4	10.29	167	10.29	1.000
	5	10	10.37	167	10.29	1.008
	6	9	11.18	167	10.29	1.086
	7	7	11.27	167	10.29	1.095
	8	6	11.35	167	10.29	1.103
	9	5	11.5	167	10.29	1.118
	10	8	11.54	167	10.29	1.121
	11	14	12.25	168	12.92	0.948
	12	11	12.65	168	12.92	0.979
	13	13/12	12.8	168	12.92	0.991
	14	15	12.94	168	12.92	1.002
	15	19	11.67	169	11.67	1.000
	16	30/18	12.48	169	11.67	1.069
	17	17	12.69	169	11.67	1.087
	18	27	12.77	169	11.67	1.094
	19	24	12.86	169	11.67	1.102
	20	16	12.9	169	11.67	1.105
	21	32	13.13	169	11.67	1.125
	22	34	13.73	169	11.67	1.177
	23	23	13.82	169	11.67	1.184
	24	26/29	13.98	169	11.67	1.198
	25	25	14.09	170	16.67	0.845
	26	31	14.25	170	16.67	0.855
	27	28/20	14.42	170	16.67	0.865
	28	21/33	14.52	170	16.67	0.871
	29	22	14.76	170	16.67	0.885
	30	36	15.59	170	16.67	0.935
	31	39	15.81	170	16.67	0.948
	32	38	16.17	170	16.67	0.970
	33	35	16.44	170	16.67	0.986
	34	37	16.69	170	16.67	1.001
	35	54	13.07	171	13.05	1.002
	36	53/50	14.11	171	13.05	1.081
	37	45/51	14.47	171	13.05	1.109
	38	46	14.63	171	13.05	1.121
	39	52	15.37	171	13.05	1.178
	40	73	15.45	171	13.05	1.184
	41	43	15.52	171	13.05	1.189
	42	69/49	15.63	171	13.05	1.198
	43	48	15.83	171	13.05	1.213
	44	44/47/65	15.97	171	13.05	1.224
	45	59/62/75	16.15	171	13.05	1.238
	46	42	16.28	171	13.05	1.248
	47	40/41/71	16.57	171	13.05	1.270
	48	64	16.71	171	13.05	1.280
	49	72	17.19	172	21.4	0.803
	50	68	17.39	172	21.4	0.813
	51	57	17.68	172	21.4	0.826
	52	58	17.82	172	21.4	0.833
	53	67	17.94	172	21.4	0.838
	54	63	18.12	172	21.4	0.847
	55	61/70/74/76	18.35	172	21.4	0.857
	56	66	18.57	172	21.4	0.868
	57	55	18.69	172	21.4	0.873
	58	56	19.05	172	21.4	0.890
	59	60	19.23	172	21.4	0.899
	60	80	19.46	172	21.4	0.909
	61	79	20.61	172	21.4	0.963
	62	78	21.06	172	21.4	0.984
	63	81	21.42	172	21.4	1.001
	64	77	21.88	173	21.84	1.002
	65	104	15.93	174	15.92	1.001
	66	96	16.15	174	15.92	1.014
	67	103	17.32	174	15.92	1.088
	68	94	17.46	174	15.92	1.097
	69	95	17.75	174	15.92	1.115
	70	100/93/102/98	17.91	174	15.92	1.125
	71	88/91	18.32	174	15.92	1.151

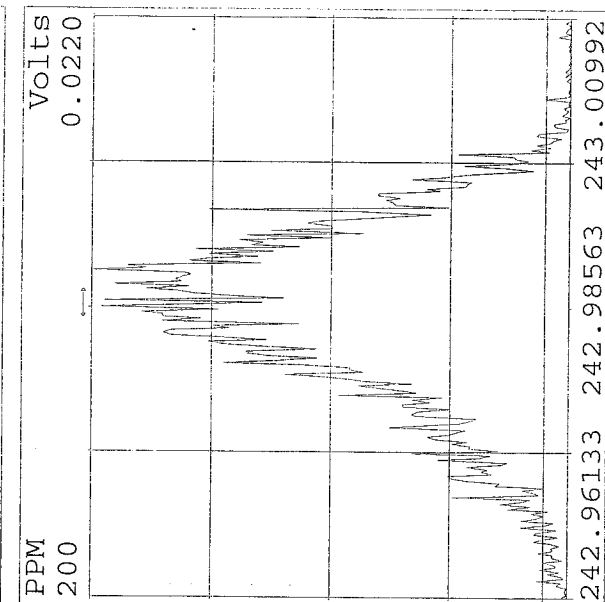
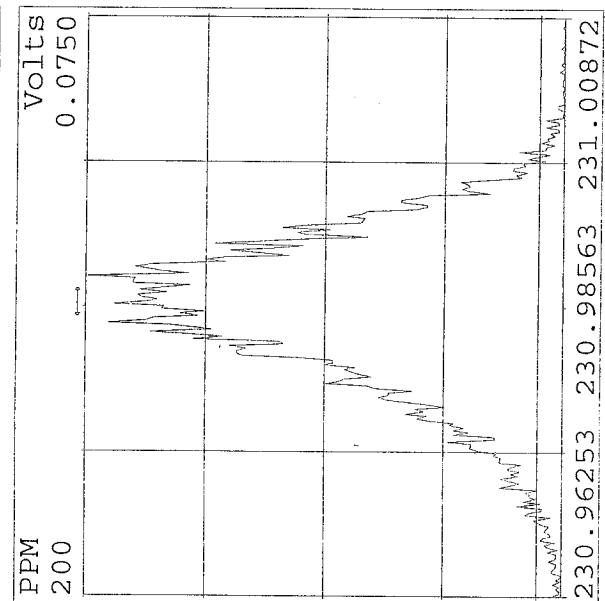
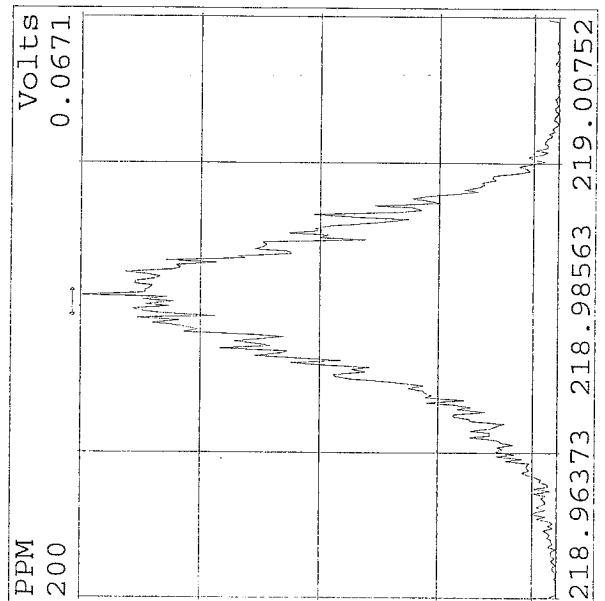
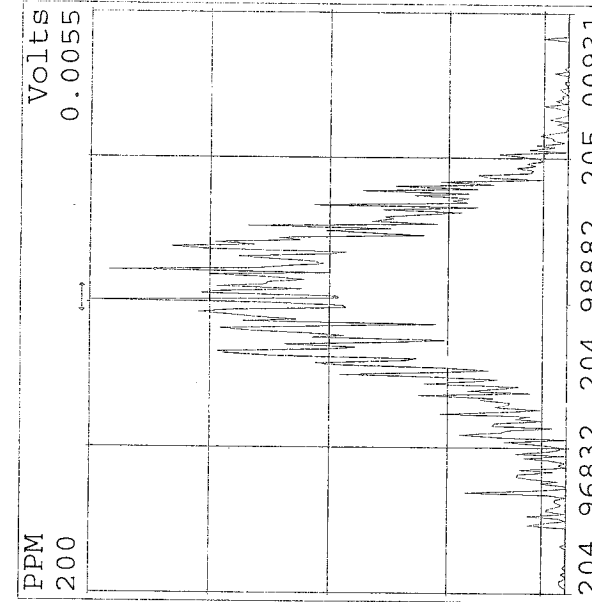
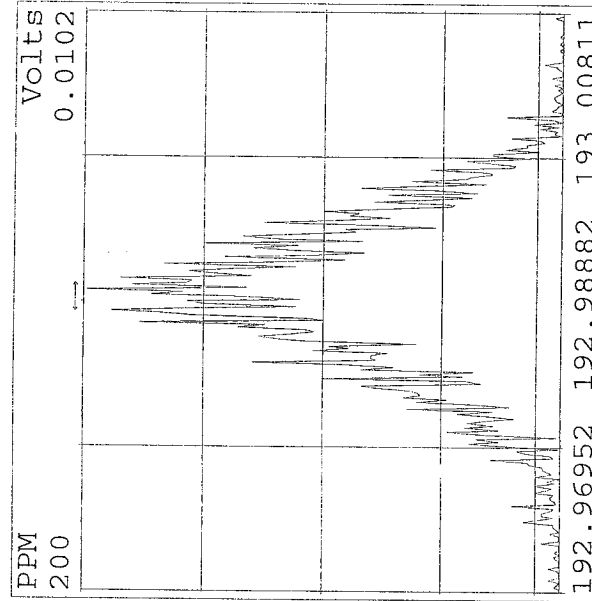
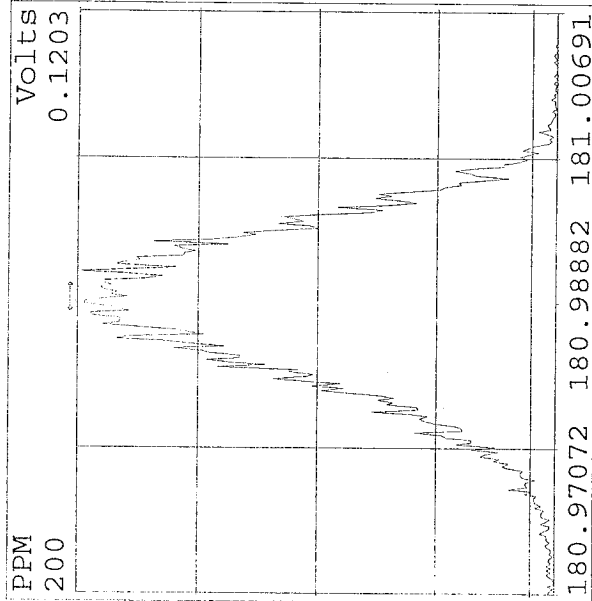
16.02.16  


72	84	18.49	174	15.92	1.161
73	89	18.83	174	15.92	1.183
74	121	19.08	174	15.92	1.198
75	92	19.35	174	15.92	1.215
76	113/90/101	19.78	174	15.92	1.242
77	83/99	20.22	174	15.92	1.270
78	112	20.33	174	15.92	1.277
79	109/119/86/97/	20.61	174	15.92	1.295
80	117/116/85	21.2	174	15.92	1.332
81	110/115	21.38	174	15.92	1.343
82	82	21.58	174	15.92	1.356
83	111	21.86	174	15.92	1.373
84	120	22.24	174	15.92	1.397
85	108/124	23.2	175	23.48	0.988
86	107	23.41	175	23.48	0.997
87	123	23.5	175	23.48	1.001
88	106	23.62	175	23.48	1.006
89	118	23.78	176	23.77	1.000
90	122	24.09	176	23.77	1.013
91	114	24.27	177	24.25	1.001
92	105	24.84	178	24.82	1.001
93	127	26.17	179	27.69	0.945
94	126	27.7	179	27.69	1.000
95	155	19.62	180	19.6	1.001
96	152	19.8	180	19.6	1.010
97	150	19.9	180	19.6	1.015
98	136	20.17	180	19.6	1.029
99	145	20.4	180	19.6	1.041
100	148	21.54	180	19.6	1.099
101	151/135	22.04	180	19.6	1.124
102	154	22.24	180	19.6	1.135
103	144	22.5	180	19.6	1.148
104	147/149	22.8	180	19.6	1.163
105	134/143	23.04	180	19.6	1.176
106	139/140	23.3	180	19.6	1.189
107	131	23.48	180	19.6	1.198
108	142	23.64	180	19.6	1.206
109	132	23.87	180	19.6	1.218
110	133	24.3	180	19.6	1.240
111	165	24.66	181	29.51	0.836
112	146	24.87	181	29.51	0.843
113	161	25	181	29.51	0.847
114	153/168	25.46	181	29.51	0.863
115	141	25.62	181	29.51	0.868
116	130	25.99	181	29.51	0.881
117	137	26.21	181	29.51	0.888
118	164	26.3	181	29.51	0.891
119	138/163/129	26.62	181	29.51	0.902
120	160	26.78	181	29.51	0.907
121	158	26.97	181	29.51	0.914
122	128/166	27.79	181	29.51	0.942
123	159	28.77	181	29.51	0.975
124	162	29.04	181	29.51	0.984
125	167	29.52	181	29.51	1.000
126	156/157	30.71	182	30.67	1.001
127	169	34.11	183	34.07	1.001
128	188	24.23	184	24.19	1.002
129	179	24.53	184	24.19	1.014
130	184	25	184	24.19	1.033
131	176	25.32	184	24.19	1.047
132	186	25.74	184	24.19	1.064
133	178	27.01	184	24.19	1.117
134	175	27.61	184	24.19	1.141
135	187	27.88	184	24.19	1.153
136	182	28.08	184	24.19	1.161
137	183	28.49	185	32.1	0.888
138	185	28.58	185	32.1	0.890
139	174	28.72	185	32.1	0.895
140	177	29.15	185	32.1	0.908
141	181	29.56	185	32.1	0.921
142	171/173	29.78	185	32.1	0.928
143	172	31.44	185	32.1	0.979
144	192	31.74	185	32.1	0.989
145	193/180	32.08	185	32.1	0.999
146	191	32.5	185	32.1	1.012

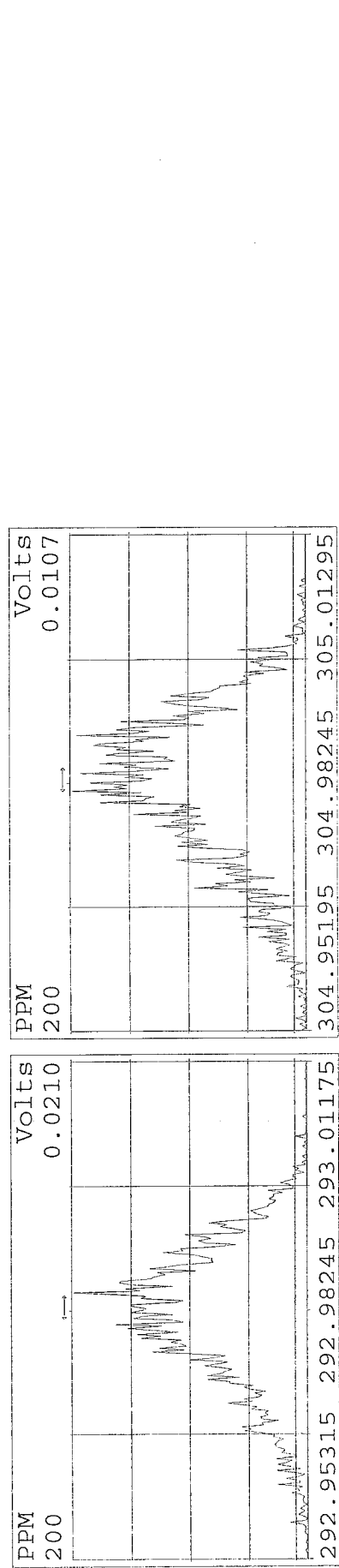
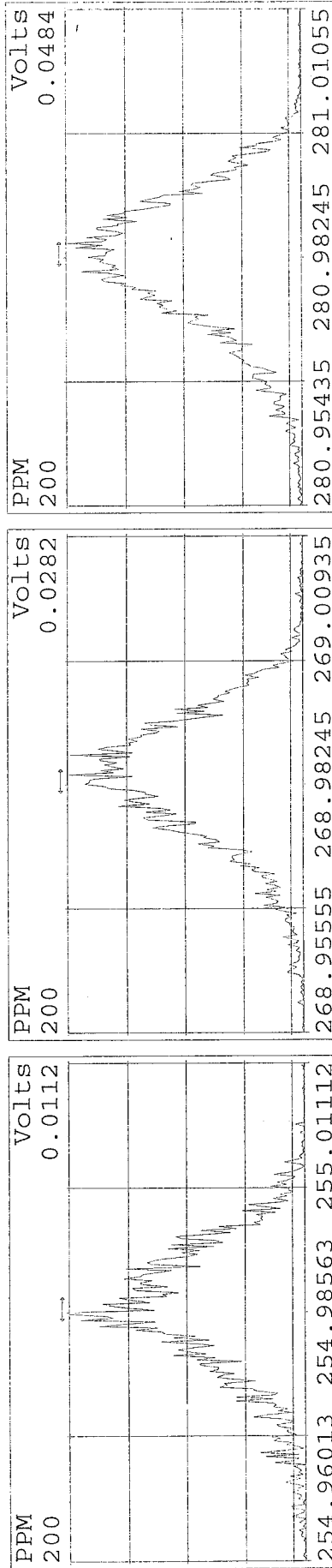
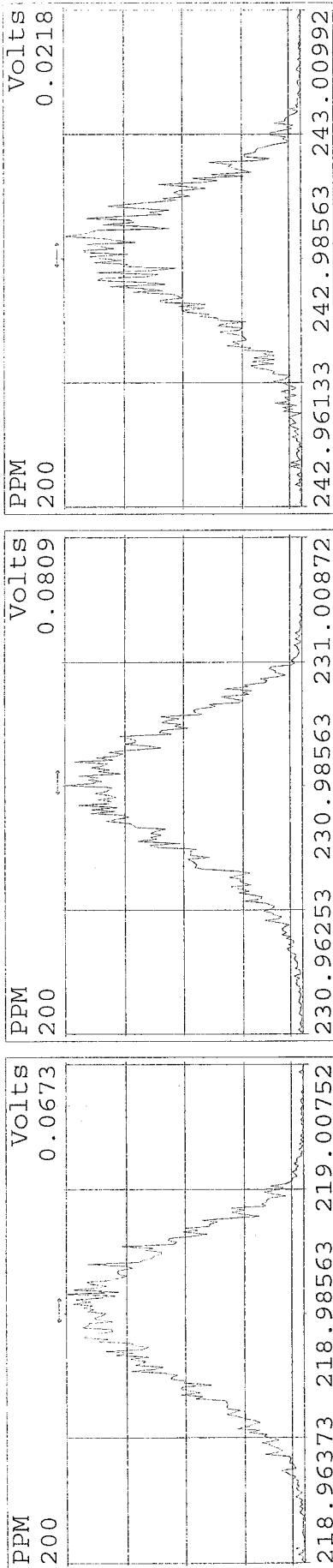


147	170	33.44	186	33.43	1.000
148	190	34.02	186	33.43	1.018
149	189	36.85	187	36.83	1.001
150	202	29.26	188	29.24	1.001
151	201	30.2	188	29.24	1.033
152	204	30.88	188	29.24	1.056
153	197	31.12	188	29.24	1.064
154	200	31.22	188	29.24	1.068
155	198/199	34.18	188	29.24	1.169
156	196	34.91	189	39.72	0.879
157	203	35.13	189	39.72	0.884
158	195	36.58	189	39.72	0.921
159	194	39.21	189	39.72	0.987
160	205	39.74	189	39.72	1.001
161	208	36.3	190	36.28	1.001
162	207	37.33	190	36.28	1.029
163	206	41.71	191	41.69	1.000
164	209	43.57	192	43.55	1.000
165	1L	8.98	193	11.18	0.803
166	3L	10.17	193	11.18	0.910
167	4L	10.29	193	11.18	0.920
168	15L	12.92	193	11.18	1.156
169	19L	11.67	193	11.18	1.044
170	37L	16.67	194	15.36	1.085
171	54L	13.05	194	15.36	0.850
172	81L	21.4	194	15.36	1.393
173	77L	21.84	194	15.36	1.422
174	104L	15.92	195	19.76	0.806
175	123L	23.48	195	19.76	1.188
176	118L	23.77	195	19.76	1.203
177	114L	24.25	195	19.76	1.227
178	105L	24.82	195	19.76	1.256
179	126L	27.69	195	19.76	1.401
180	155L	19.6	196	26.56	0.738
181	167L	29.51	196	26.56	1.111
182	156/157L	30.67	196	26.56	1.155
183	169L	34.07	196	26.56	1.283
184	188L	24.19	196	26.56	0.911
185	180L	32.1	197	39.17	0.820
186	170L	33.43	197	39.17	0.853
187	189L	36.83	197	39.17	0.940
188	202L	29.24	197	39.17	0.746
189	205L	39.72	197	39.17	1.014
190	208L	36.28	197	39.17	0.926
191	206L	41.69	197	39.17	1.064
192	209L	43.55	197	39.17	1.112
193	9L	11.18			ABS
194	52L	15.36			ABS
195	101L	19.76			ABS
196	138L	26.56			ABS
197	194L	39.17			ABS
198	28L	14.4	194	15.36	0.938
199	111L	21.83	195	19.76	1.105
200	178L	26.99	196	26.56	1.016
201	31L	14.24	194	15.36	0.927
202	95L	17.73	195	19.76	0.897
203	153L	25.41	196	26.56	0.957

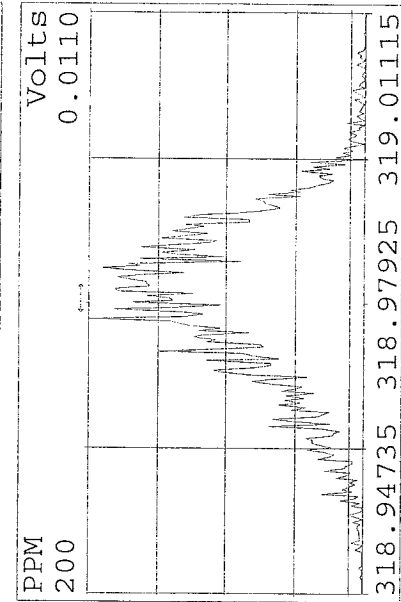
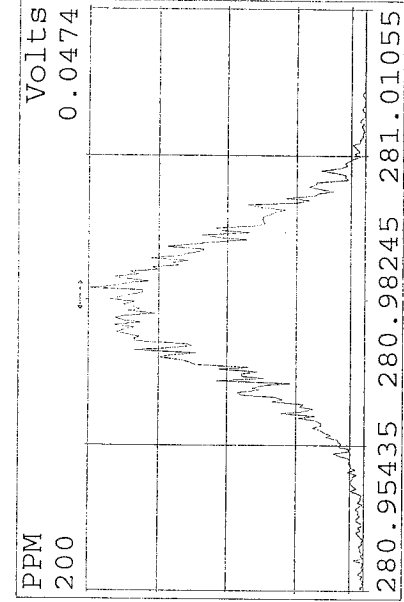
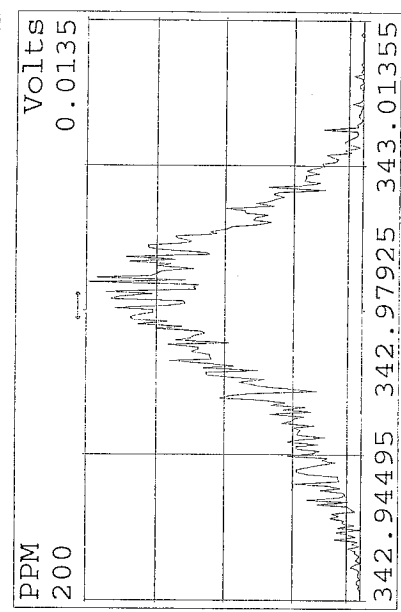
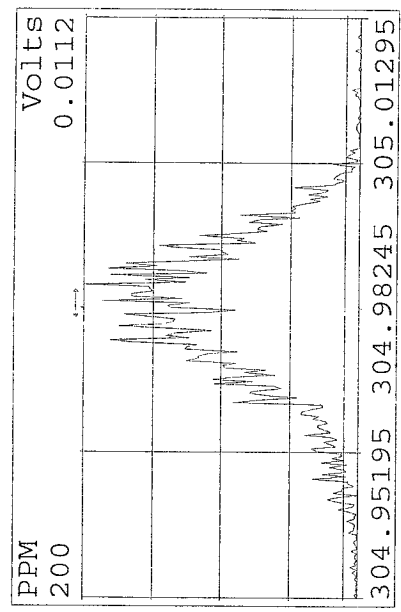
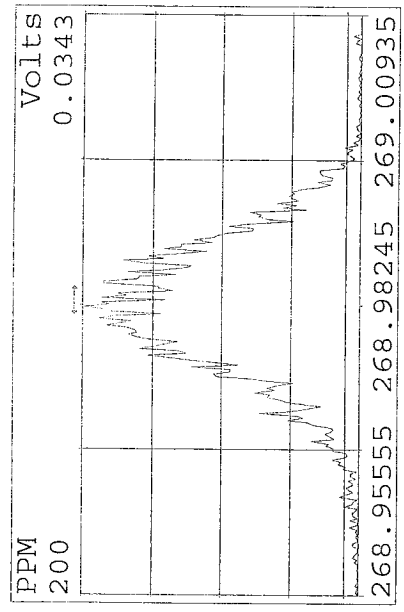
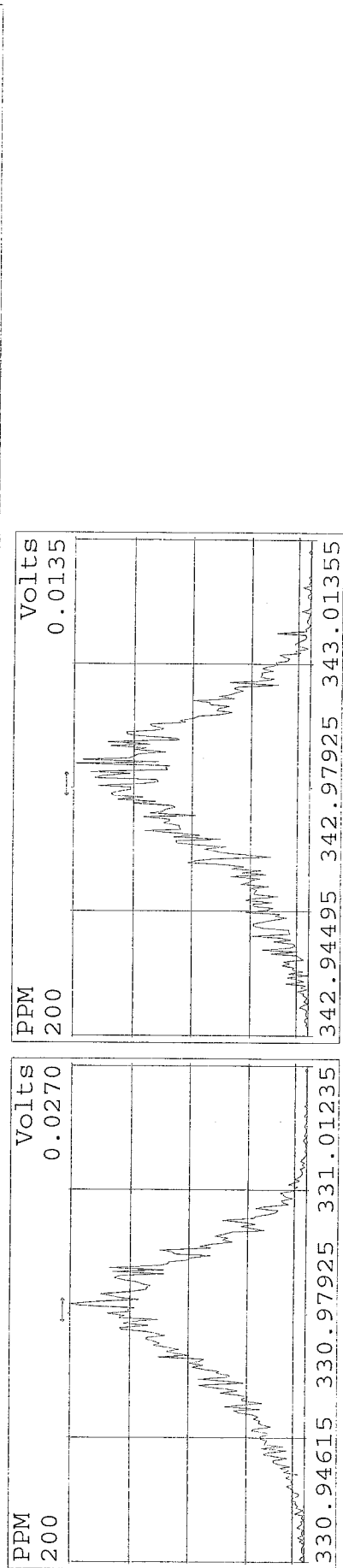
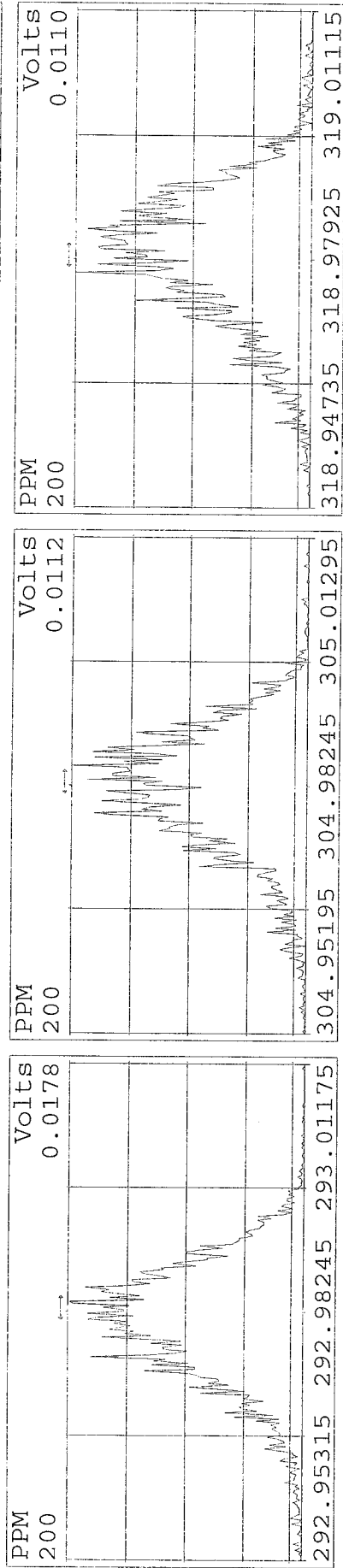
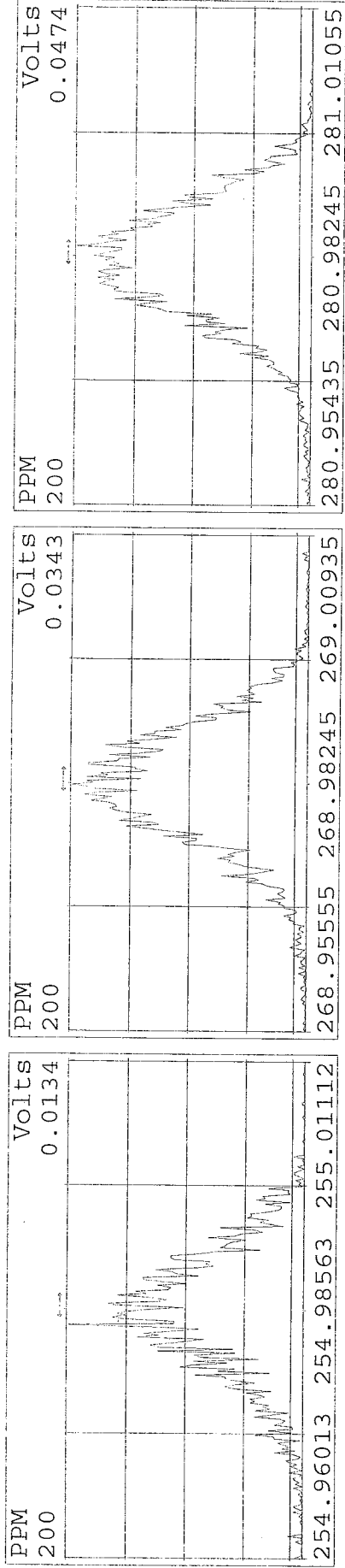
Peak Locate Examination: 11-FEB-2016:12:14 File:M21160211  
Experiment:1668A Function:1 Reference:PFK



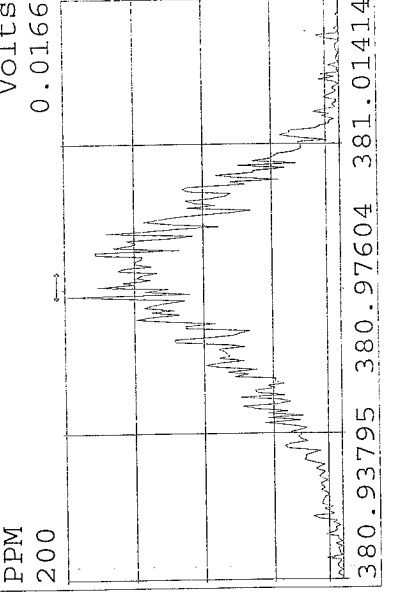
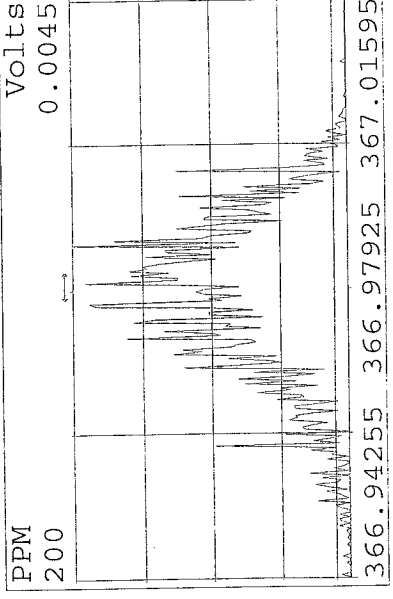
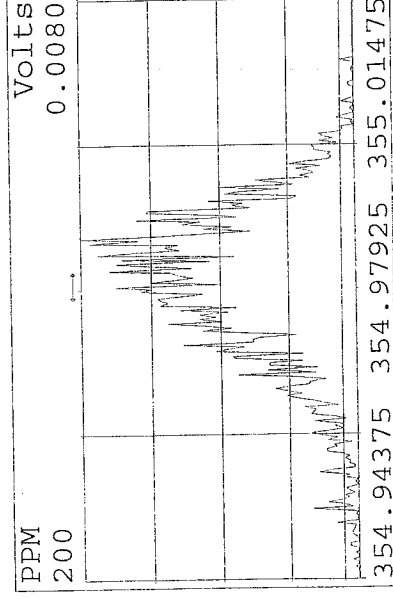
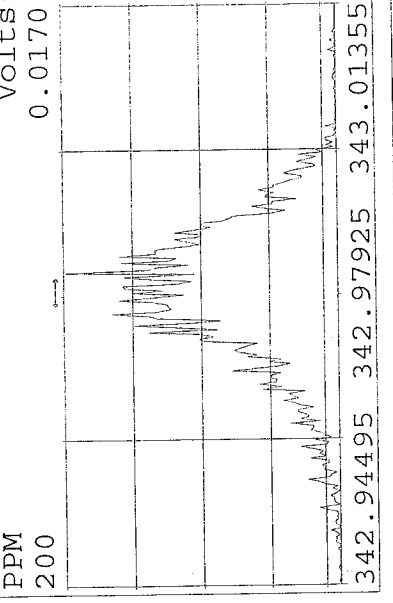
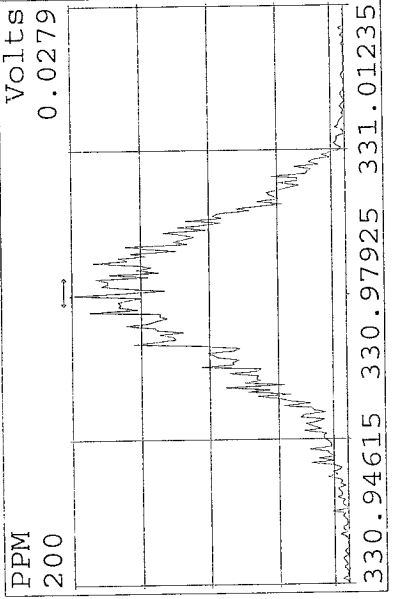
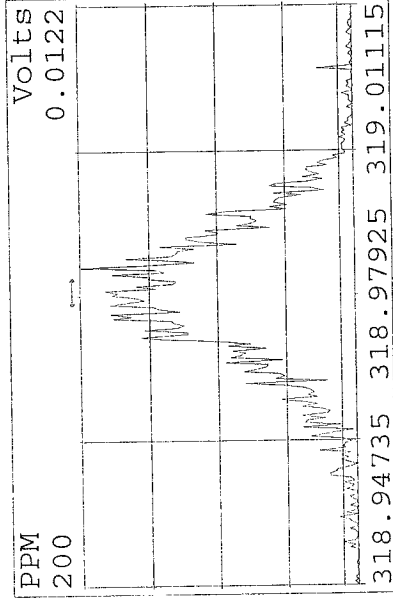
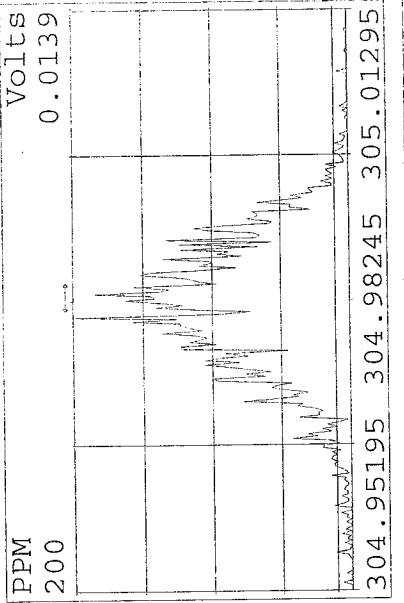
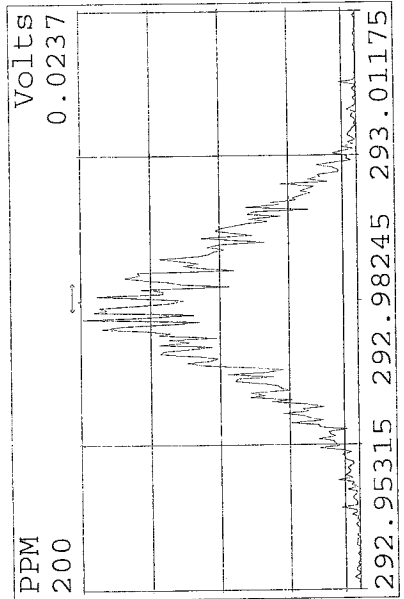
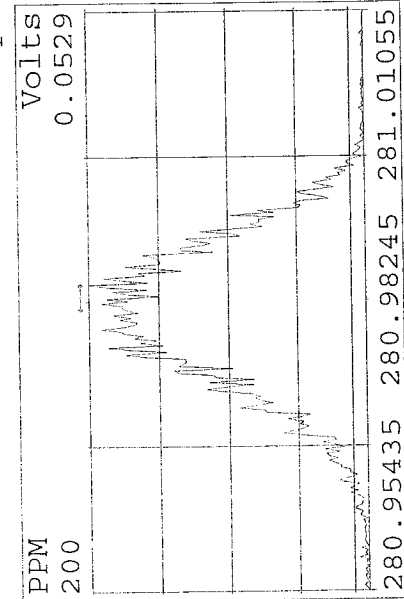
Peak Locate Examination: 11-FEB-2016:12:15 File:M2160211  
 Experiment:1668A Function:2 Reference:PFK



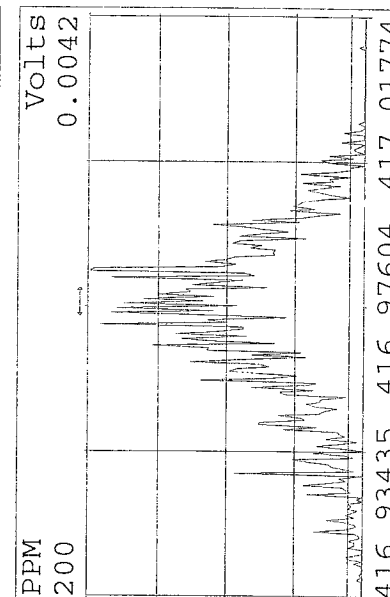
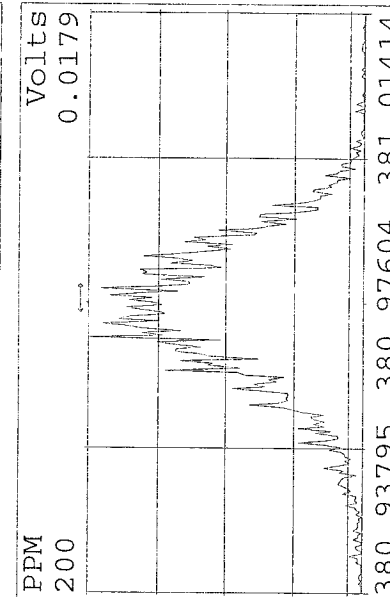
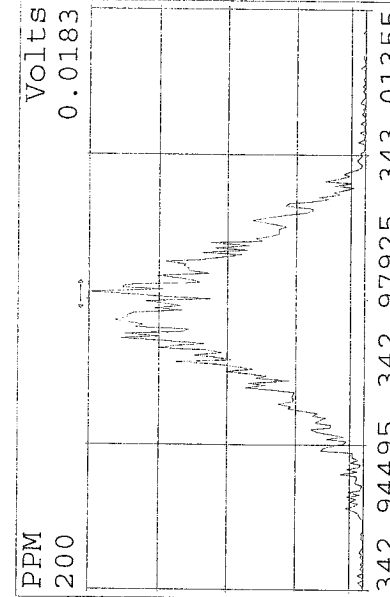
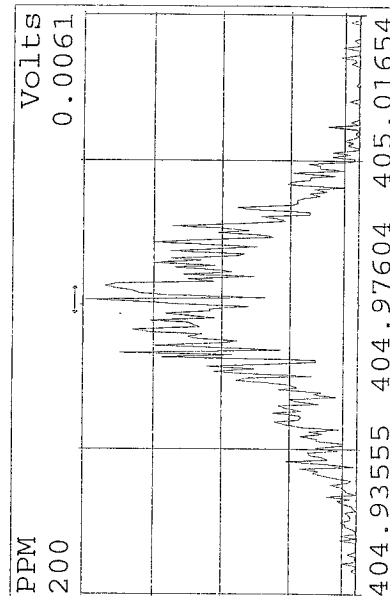
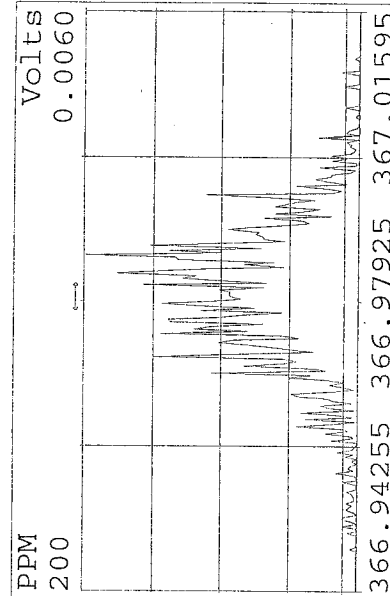
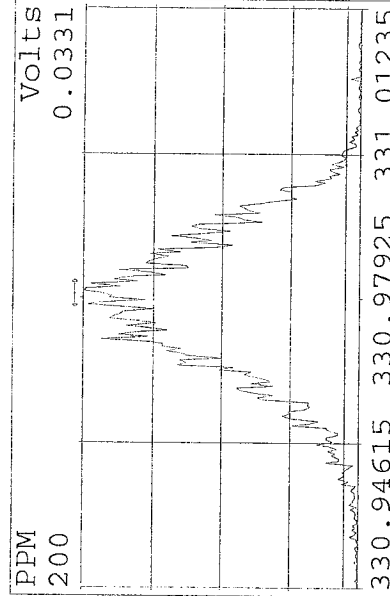
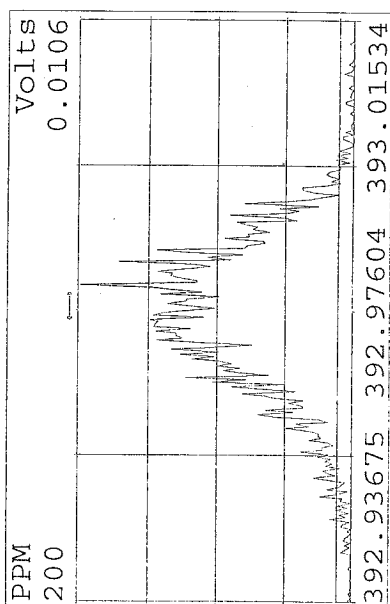
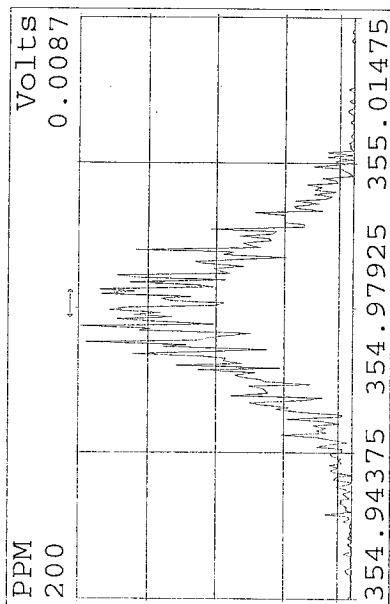
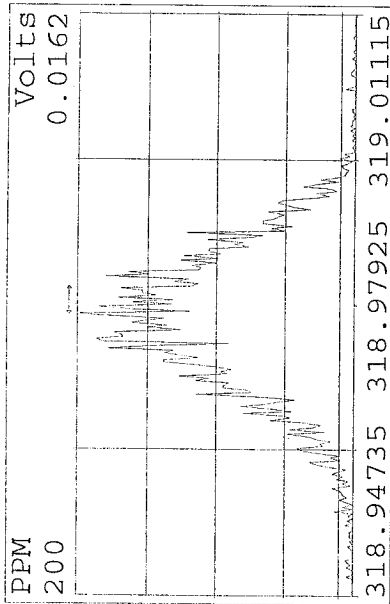
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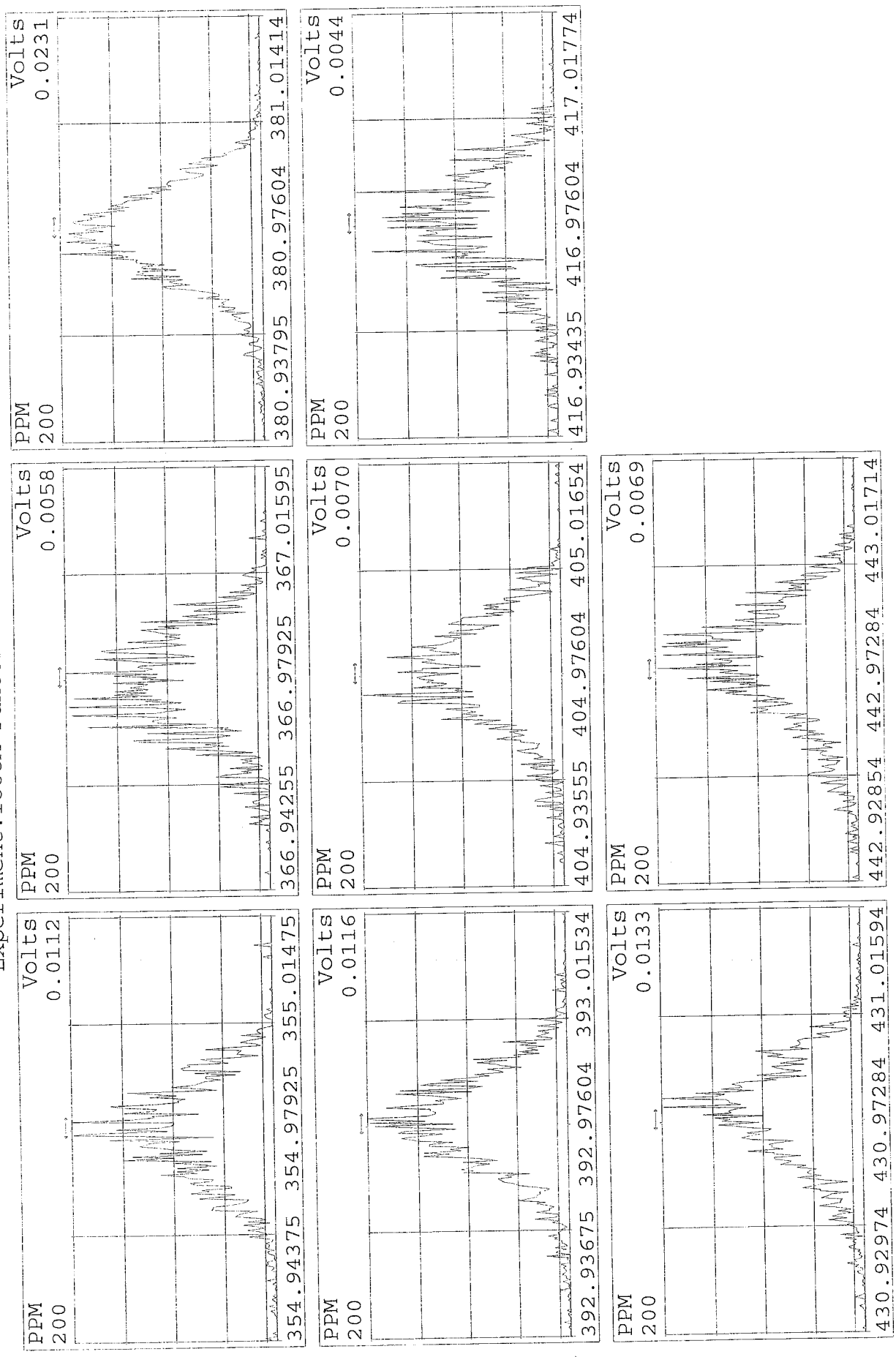
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Experiment:1668A Function:4 Reference:PFK



Peak Locate Examination:11-FEB-2016:12:16 File:M2160211  
Experiment:1668A Function:5 Reference:PFK



Peak Locate Examination: 11-FEB-2016:12:16 File:M2160211  
 Experiment:1668A Function:6 Reference:PFK



Peak Locate Examination:11-FEB-2016:12:17 File:M2160211  
Experiment:1668A Function:7 Reference:PFK

