



Prep Steps	Reagents Used	Surrogates & Spike Standards Used																									
Tissuemizing <i>df</i> 05/09/17 Analyst/Date	Station/Reagent TissueMizing Analyst: <i>df</i> Date: 05/09/17	<table border="1"> <thead> <tr> <th>Type</th> <th>Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>1 E006470 Exp: 11/09/2017</td> <td>100uL</td> <td><i>df</i></td> <td>CT</td> </tr> <tr> <td>1.5/7.5µg/mL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Spike</td> <td>18 E006379 Exp: 11/09/2017</td> <td>100uL</td> <td><i>df</i></td> <td>CF</td> </tr> <tr> <td>1.5/7.5µg/mL</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Type	Standard ID	Vol uL	Analyst	Witness	Surrogate	1 E006470 Exp: 11/09/2017	100uL	<i>df</i>	CT	1.5/7.5µg/mL					Spike	18 E006379 Exp: 11/09/2017	100uL	<i>df</i>	CF	1.5/7.5µg/mL				
Type	Standard ID	Vol uL	Analyst	Witness																							
Surrogate	1 E006470 Exp: 11/09/2017	100uL	<i>df</i>	CT																							
1.5/7.5µg/mL																											
Spike	18 E006379 Exp: 11/09/2017	100uL	<i>df</i>	CF																							
1.5/7.5µg/mL																											
KD Pre GPC-80-85°C-100°C 1 2 3 4 5 6 AI 5/10/17 Analyst/Date	Neutral Glasswool F001166 Anhydrous Sodium Sulfate F0033342 Methylene Chloride F003888 1:1 Methylene Chloride/Acetone F004154	(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards. If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).																									
TurboVap Pre GPC 1 2 3 4 5 SP 5/11/17 Analyst/Date	Pre GPC KD Analyst: AI Date: 5/10/17 Methylene Chloride F003888 GPC Filter Prep Analyst: SP Date: 5/11/17 Methylene Chloride F003888																										
GPC Filter SP 5/11/17 Analyst/Date	GPC Analyst: <i>ww</i> Date: 5/11/17 Methylene Chloride F003888																										
GPC <i>ww</i> 5/11/17 Analyst/Date	Post GPC KD Analyst: <i>df</i> Date: 05/12/17 Methylene Chloride F003888																										
KD 80 - 85°C Hexane Exchange (2 X 20 mL) 100°C 1 2 3 4 5 6 SP 05/12/17 Analyst/Date	Hexane F003179 Vialing Analyst: SP Date: 5/12/17 0% Silica Gel E007164 / F003524 Pentane E006958 Hexane F003179 Methylene Chloride F003888 60:40 Pentane/Methylene Chloride F004324 Neutral Glasswool F001166 Neutral Sodium Sulfate F003542																										
TurboVap Pre Silica Gel Clean 1 2 3 4 5 SP 5/12/17 Analyst/Date																											
TurboVap Post Silica Gel Clean 1 2 3 4 5 <i>ww</i> 5/12/17 Analyst/Date																											



Batch: BFE0160

Prepared using: EPA 3550C-Mod (Ultrasonic)
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) in Tissue (Version:PG List)

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Weigh into samples 250mL Centrifuge bottle(s).2. Add surr/spike.3. Add 1:1 DCM/Acetone4. Add Sodium Sulfate just before tissuemizing5. Tissuemize 2X with 1:1 DCM/Acetone, then 1x with DCM for 1 min each.6. Collect samples into 500mL flask (sodium sulfate in flask) with funnel and glasswool.7. KD using DCM to 5mL at 80°C 100°C8. TurboVap for GPC 1:19. Post GPC KD at 80°C.10. Exchange to Hexane (2X with 20mL) at 100°C.11. TurboVap extract to 2mL in Hexane.12. Silica Clean-up =REQ. Collect EPH Aromatic fraction only.13. TurboVap to 0.5 mL <p>A. Need Total Solids Y <input checked="" type="checkbox"/> N</p> <p>B. Freeze Y <input checked="" type="checkbox"/> N</p>	



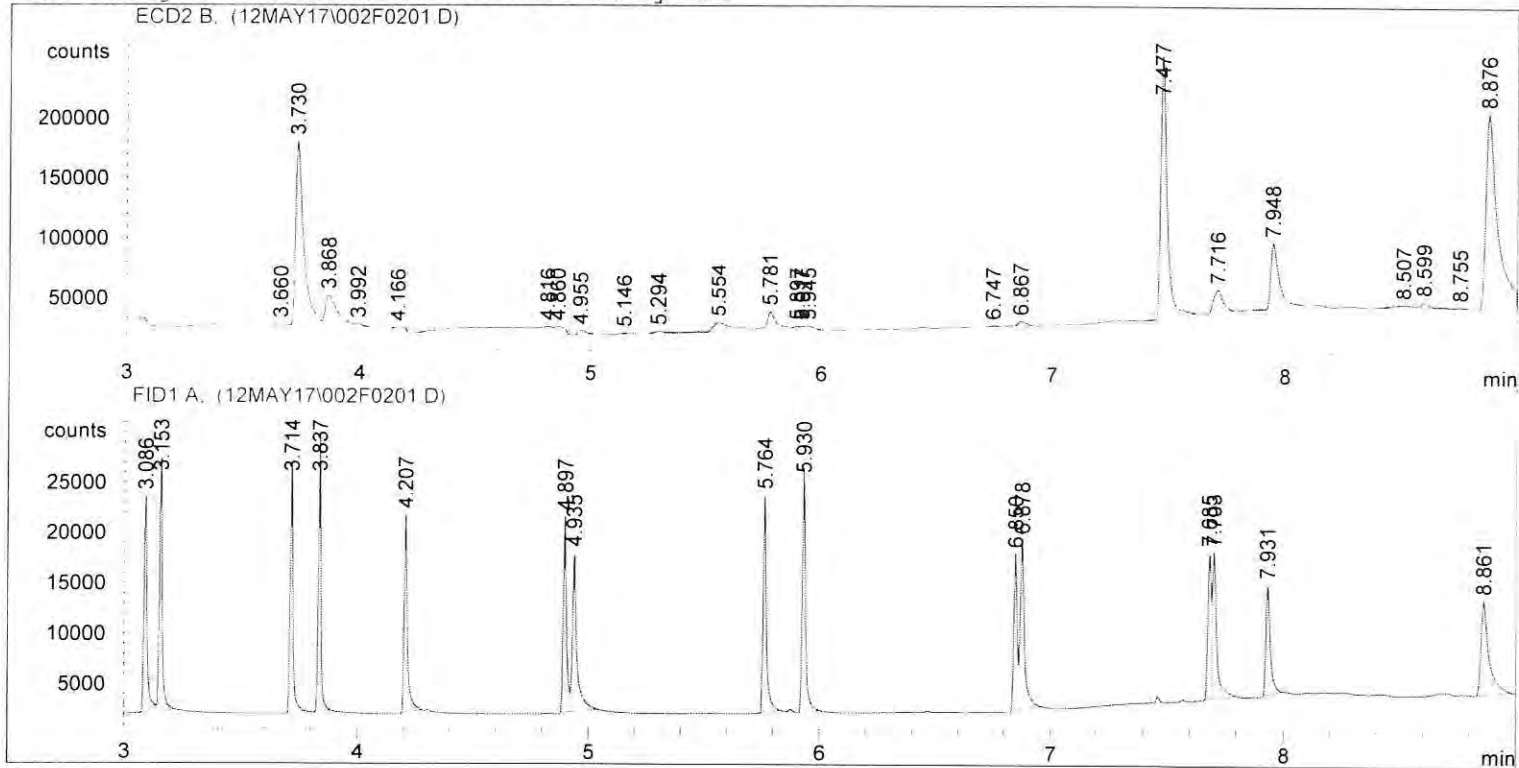
Extraction Parameter: LL SIM PNA

Element Batch: BFE0160 Work Order(s): 17D0421, 17E0012

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input checked="" type="checkbox"/> Other (Details)= ^{17D0421} oyster = φ1, cockle = φ2, φ3, oyster = φ4, cockle = φ5, little cockle = φ6, manila clams = φ7, geo-coc = φ8, muscle = φ9, cockle #1 φ (17E0012) oyster = φ1, cockle = φ2, little cockle #3, manila clams #4.	✓ φ5/φ8/17
Aqueous: Horse clams = φ5, muscle = φ6.	↓
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)= dry drying column used @ ^{PRE-GPC} KD on ^{#5/10/17} 17D0421 17E0012	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
drying column used @ pre-GPC KD on 17D0421-10	AI 5/10/17
17D0421-10 was clear and tan tan after drying	↓
column & after pre GPC KD became very cloudy & tan	
Centrifuged 17D0421-10 prior to filtering for GPC	SP 5/10/17
<input checked="" type="checkbox"/> Share Samples Y/N	✓ φ5/φ8/17
<input checked="" type="checkbox"/> Multiple Jars Y/N 17E0421 = φ8 x 4	✓ φ5/φ8/17
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

```

Injection Date : 5/12/2017 4:53:39 PM      Seq. Line : 2
Sample Name    : PNA STD 10PPM             Location  : Vial 2
Acq. Operator  : WW                       Inj      : 1
                                                Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\1\SEQUENCE\12MAY17.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 3/28/2017 5:35:36 PM by ACS
    
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
```

Signal 1: ECD2 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area
1	2.598	BP	0.0249	8915.45898	6993.49023	0.43308
2	3.660	BV	0.0497	8549.39160	2231.21118	0.41530
3	3.730	VV	0.0363	3.88164e5	1.54611e5	18.85573
4	3.868	VV	0.0546	1.00565e5	2.63250e4	4.88514
5	3.992	VB	0.0347	6290.50537	2557.20703	0.30557
6	4.166	BP	0.0545	1.08581e4	2508.72681	0.52745
7	4.816	VV	0.2880	1.70156e5	7038.99316	8.26565
8	4.860	VP	0.0415	2.13300e4	7013.88086	1.03614
9	4.955	VB	0.0419	1.11226e4	3833.29028	0.54030
10	5.146	PB	0.0449	3369.51074	1038.36487	0.16368
11	5.294	BV	0.0639	9796.11621	1974.94141	0.47586
12	5.554	VV	0.1081	6.81565e4	8359.62988	3.31082
13	5.781	VV	0.0462	5.67684e4	1.64655e4	2.75763
14	5.897	VV	0.0231	5970.27344	3868.49707	0.29002
15	5.917	VV	0.0216	6091.49512	4027.58618	0.29591
16	5.945	VV	0.0408	1.12999e4	3902.76099	0.54891
17	6.747	BV	0.0433	3403.39917	1064.64185	0.16533

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
18	6.867	VP	0.0419	1.26262e4	4108.35693	0.61334
19	7.477	VB	0.0265	4.00177e5	2.17182e5	19.43928
20	7.716	BP	0.0400	5.18456e4	1.83020e4	2.51849
21	7.948	VB	0.0348	1.27146e5	5.32782e4	6.17635
22	8.507	VV	0.0949	1.86498e4	2342.52441	0.90595
23	8.599	VV	0.0501	1.84128e4	4979.53516	0.89443
24	8.755	VP	0.0524	4589.78223	1130.15613	0.22296
25	8.876	VBA	0.0468	5.34344e5	1.60792e5	25.95669

Totals : 2.05860e6 7.15930e5

Results obtained with enhanced integrator!

Signal 2: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
1	2.623	PB	0.0149	2.07293e4	2.03058e4	6.62350
2	3.086	BV	0.0137	1.96250e4	2.13906e4	6.27065
3	3.153	VB	0.0131	2.16383e4	2.51046e4	6.91395
4	3.714	BB	0.0127	2.07037e4	2.48299e4	6.61533
5	3.837	BB	0.0121	2.16081e4	2.75811e4	6.90431
6	4.207	BB	0.0146	1.95126e4	1.96113e4	6.23474
7	4.897	BV	0.0137	1.77453e4	1.94354e4	5.67006
8	4.935	VB	0.0194	2.07453e4	1.57532e4	6.62863
9	5.764	BB	0.0143	2.08334e4	2.15027e4	6.65678
10	5.930	VB	0.0143	2.35892e4	2.42740e4	7.53733
11	6.850	BV	0.0153	1.50884e4	1.55376e4	4.82110
12	6.878	VB	0.0187	2.11723e4	1.68395e4	6.76505
13	7.685	BV	0.0141	1.38940e4	1.45612e4	4.43946
14	7.703	VB	0.0200	1.99679e4	1.45867e4	6.38022
15	7.931	PB	0.0192	1.42577e4	1.09245e4	4.55567
16	8.861	PB	0.0333	2.18551e4	9348.62012	6.98322

Totals : 3.12966e5 3.01587e5

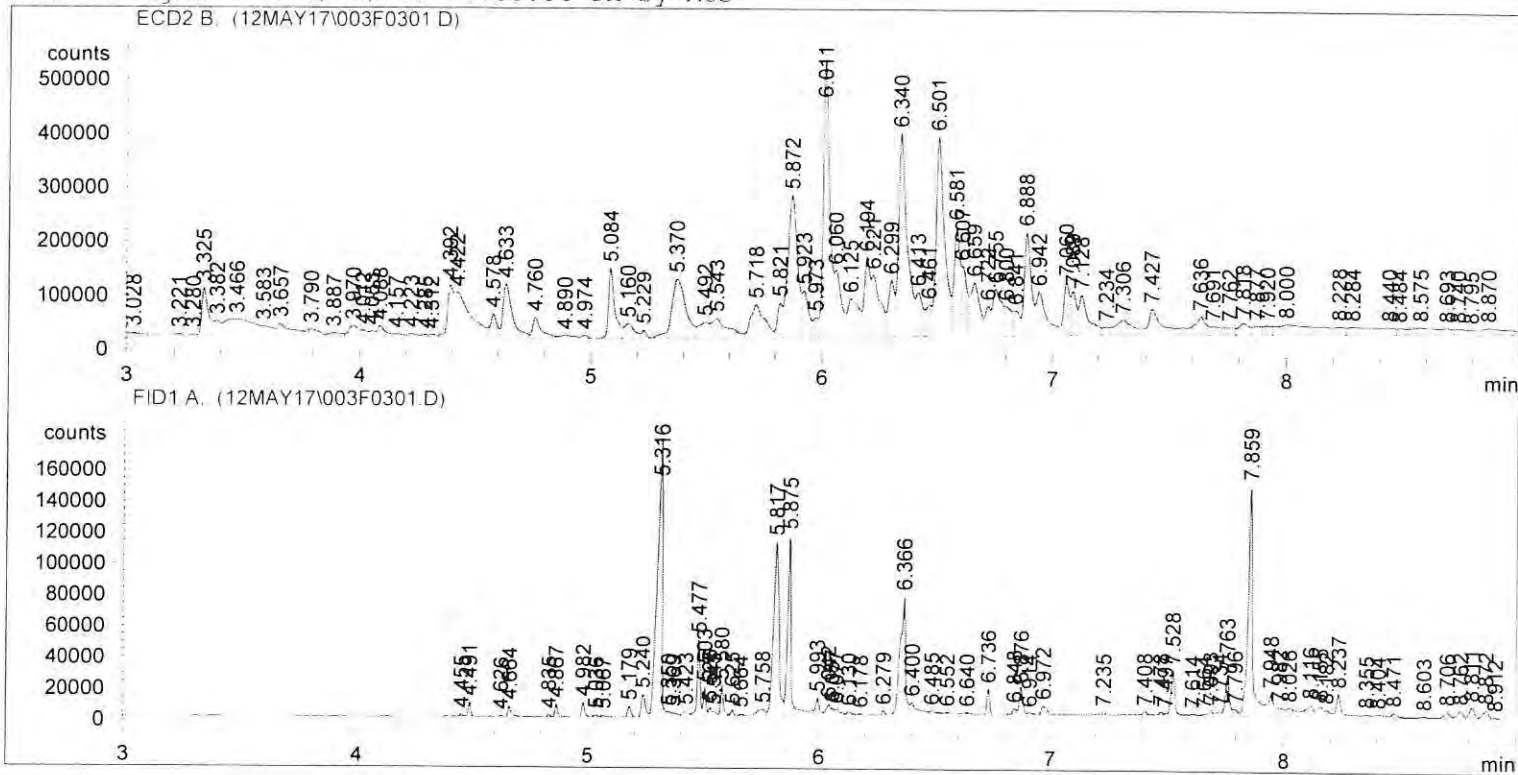
Results obtained with enhanced integrator!

=====
*** End of Report ***

```

Injection Date : 5/12/2017 5:07:01 PM      Seq. Line : 3
Sample Name    : 17D0421-10 Post           Location  : Vial 3
Acq. Operator  : WW                       Inj       : 1
                                                Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\1\SEQUENCE\12MAY17.S
Method        : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed  : 3/28/2017 5:35:36 PM by ACS
    
```



Area Percent Report

```

Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
```

Signal 1: ECD2 B,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area %
1	2.056	BV	0.0296	4772.89502	2361.88257	0.03605
2	2.111	VP	0.0232	6948.52490	4442.38916	0.05248
3	2.236	VV	0.0298	1.60848e4	8215.77441	0.12148
4	2.346	VP	0.0508	8092.25342	2105.06958	0.06111
5	2.605	VV	0.0522	2.84673e4	9177.55371	0.21499
6	2.696	VV	0.0537	2.41170e4	6159.59277	0.18214
7	2.728	VV	0.0416	1.41755e4	5677.47021	0.10706
8	2.789	VV	0.0438	3.65223e4	1.12723e4	0.27582
9	2.918	VV	0.0387	1.12705e4	4288.92041	0.08512
10	3.028	VP	0.0498	1.05669e4	2811.93921	0.07980
11	3.221	VV	0.0480	7971.90967	2267.29883	0.06021
12	3.280	VV	0.0287	3745.34009	1927.97900	0.02829
13	3.325	VV	0.0282	1.76688e5	8.87213e4	1.33438
14	3.382	VV	0.0251	5.02803e4	2.77588e4	0.37973
15	3.466	VV	0.1091	2.65583e5	3.00641e4	2.00573
16	3.583	VV	0.0437	5.95989e4	1.79819e4	0.45010
17	3.657	VV	0.0562	1.01260e5	2.30691e4	0.76474

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area
18	3.790	VV	0.0513	4.85267e4	1.27903e4	0.36648
19	3.887	VV	0.0508	2.57443e4	6553.99268	0.19443
20	3.970	VV	0.0479	6.11771e4	1.98594e4	0.46202
21	4.012	VV	0.0229	1.83000e4	1.19086e4	0.13821
22	4.053	VV	0.0243	1.76618e4	1.06859e4	0.13339
23	4.088	VV	0.0347	5.01206e4	2.03432e4	0.37852
24	4.157	VV	0.0474	1.69601e4	5440.45117	0.12809
25	4.223	VV	0.0334	1.51904e4	6241.43311	0.11472
26	4.285	VV	0.0286	9117.12305	4697.02979	0.06885
27	4.312	VV	0.0392	1.25333e4	4836.35205	0.09465
28	4.392	VV	0.0265	1.79925e5	9.77743e4	1.35883
29	4.422	VV	0.0626	3.88613e5	8.30887e4	2.93488
30	4.578	VV	0.0283	8.54796e4	4.47117e4	0.64556
31	4.633	VV	0.0413	2.83221e5	9.93084e4	2.13894
32	4.760	VV	0.0354	1.00985e5	3.87690e4	0.76266
33	4.890	VV	0.0555	2.51795e4	5937.68506	0.19016
34	4.974	VP	0.0251	1.11148e4	6439.14551	0.08394
35	5.084	VV	0.0280	2.56334e5	1.29792e5	1.93588
36	5.160	VV	0.0431	8.28972e4	2.75744e4	0.62606
37	5.229	VV	0.0236	2.42162e4	1.52041e4	0.18289
38	5.370	VV	0.0601	4.68693e5	1.09200e5	3.53966
39	5.492	VV	0.0426	9.14698e4	2.91371e4	0.69080
40	5.543	VV	0.0647	1.83911e5	3.65808e4	1.38893
41	5.718	VV	0.0562	2.57905e5	6.11391e4	1.94774
42	5.821	VV	0.0222	9.43611e4	6.40847e4	0.71263
43	5.872	VV	0.0417	7.57198e5	2.62323e5	5.71850
44	5.923	VV	0.0269	1.61513e5	8.58496e4	1.21977
45	5.973	VV	0.0201	5.05842e4	3.65663e4	0.38202
46	6.011	VV	0.0279	1.01046e6	5.15539e5	7.63118
47	6.060	VV	0.0310	2.63854e5	1.23357e5	1.99267
48	6.125	VV	0.0430	2.32859e5	7.14357e4	1.75859
49	6.194	VV	0.0257	2.60194e5	1.46849e5	1.96503
50	6.221	VV	0.0371	3.04541e5	1.14078e5	2.29995
51	6.299	VV	0.0268	1.87095e5	1.05161e5	1.41298
52	6.340	VV	0.0362	9.45035e5	3.76952e5	7.13709
53	6.413	VV	0.0302	1.70925e5	8.24812e4	1.29086
54	6.461	VV	0.0227	9.44638e4	5.90127e4	0.71341
55	6.501	VV	0.0375	9.67371e5	3.69980e5	7.30577
56	6.581	VV	0.0274	3.90851e5	2.03663e5	2.95178
57	6.607	VV	0.0258	1.99885e5	1.29089e5	1.50957
58	6.659	VV	0.0402	2.91038e5	9.91467e4	2.19797
59	6.722	VV	0.0233	8.77037e4	5.58140e4	0.66236
60	6.755	VV	0.0379	2.45592e5	8.71754e4	1.85476
61	6.800	VV	0.0317	1.04653e5	5.49370e4	0.79036
62	6.841	VV	0.0273	8.61389e4	4.72567e4	0.65054
63	6.888	VV	0.0303	4.01000e5	1.92198e5	3.02843
64	6.942	VV	0.0424	2.54696e5	8.16572e4	1.92351
65	7.060	VV	0.0270	1.78689e5	9.90485e4	1.34949
66	7.089	VV	0.0247	1.38000e5	8.15630e4	1.04220
67	7.128	VV	0.0410	2.23941e5	7.46469e4	1.69125
68	7.234	VV	0.0269	2.94114e4	1.56806e4	0.22212
69	7.306	VV	0.0722	1.67451e5	2.90543e4	1.26462
70	7.427	VV	0.0495	1.80283e5	4.83930e4	1.36153
71	7.636	VV	0.0641	1.70903e5	3.43038e4	1.29069
72	7.691	VV	0.0379	4.43214e4	1.61943e4	0.33472
73	7.762	VV	0.0477	4.93248e4	1.41316e4	0.37251
74	7.818	VV	0.0430	6.86924e4	2.22695e4	0.51878
75	7.877	VV	0.0365	4.28740e4	1.63895e4	0.32379
76	7.920	VV	0.0363	4.42882e4	1.70362e4	0.33447
77	8.000	VV	0.1560	2.49612e5	1.92899e4	1.88512
78	8.228	VV	0.0451	5.11324e4	1.52679e4	0.38616
79	8.284	VV	0.0716	7.93508e4	1.45543e4	0.59927
80	8.440	VV	0.0861	9.01874e4	1.33071e4	0.68111
81	8.484	VV	0.0390	3.49605e4	1.23753e4	0.26403
82	8.575	VV	0.0996	1.07575e5	1.35603e4	0.81243

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area
83	8.693	VV	0.0421	3.54110e4	1.17588e4	0.26743
84	8.740	VV	0.0462	3.46555e4	1.05922e4	0.26172
85	8.795	VV	0.0378	2.34809e4	8895.72363	0.17733
86	8.870	VBA	0.1043	9.32190e4	1.15289e4	0.70401

Totals : 1.32412e7 5.10076e6

Results obtained with enhanced integrator!

Signal 2: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area
1	4.455	VV	0.0139	1758.77673	1887.62952	0.12030
2	4.491	VB	0.0124	7764.09131	9610.84375	0.53106
3	4.626	VV	0.0174	1207.53381	975.34460	0.08259
4	4.664	VB	0.0158	7915.05859	7187.18311	0.54139
5	4.835	VV	0.0145	1594.30798	1767.74255	0.10905
6	4.867	VV	0.0124	6866.81836	8550.76074	0.46969
7	4.982	PV	0.0137	8759.79590	9529.20215	0.59917
8	5.036	VV	0.0180	1928.75781	1602.79321	0.13193
9	5.067	VV	0.0156	1527.23779	1417.92505	0.10446
10	5.179	VV	0.0160	6992.56934	6819.19824	0.47829
11	5.240	VV	0.0210	1.99085e4	1.45219e4	1.36173
12	5.316	VV	0.0215	2.55171e5	1.80646e5	17.45359
13	5.350	VV	0.0157	3011.41235	3205.47144	0.20598
14	5.369	VV	0.0230	4267.48486	2490.59912	0.29189
15	5.423	VV	0.0232	5692.27979	3654.96216	0.38935
16	5.477	VV	0.0129	4.18493e4	4.93472e4	2.86247
17	5.503	VV	0.0120	1.43379e4	1.85659e4	0.98071
18	5.526	VV	0.0130	4874.99072	5672.21875	0.33345
19	5.545	VV	0.0168	3537.67480	3504.73779	0.24198
20	5.580	VV	0.0132	1.70354e4	1.95682e4	1.16521
21	5.625	VV	0.0137	3485.03271	3796.82617	0.23837
22	5.664	VV	0.0211	1887.42847	1289.73474	0.12910
23	5.758	VV	0.0318	1.01864e4	4272.88184	0.69674
24	5.817	VV	0.0226	1.86505e5	1.11259e5	12.75686
25	5.875	VV	0.0182	1.25693e5	1.15230e5	8.59732
26	5.993	VV	0.0204	1.63164e4	1.09291e4	1.11604
27	6.042	VV	0.0165	8333.66309	7208.77734	0.57002
28	6.057	VV	0.0131	3676.73535	4690.86768	0.25149
29	6.077	VV	0.0232	6369.97559	3860.70630	0.43570
30	6.130	VV	0.0193	3022.16650	2160.17188	0.20671
31	6.178	VP	0.0205	991.60425	805.11884	0.06783
32	6.279	VV	0.0144	2260.09619	2536.61548	0.15459
33	6.366	VV	0.0216	1.19532e5	7.51615e4	8.17591
34	6.400	VV	0.0276	1.61926e4	7668.52051	1.10756
35	6.485	VB	0.0349	4366.68750	2082.84399	0.29868
36	6.552	BB	0.0263	1792.18738	895.84509	0.12258
37	6.640	BP	0.0173	1154.68591	882.94940	0.07898
38	6.736	PB	0.0130	1.41677e4	1.65196e4	0.96907
39	6.848	PV	0.0165	4518.94678	3909.25073	0.30909
40	6.876	VV	0.0181	1.83298e4	1.63772e4	1.25375
41	6.914	VV	0.0226	2029.75818	1210.65186	0.13883
42	6.972	VV	0.0200	8324.02344	5717.65723	0.56936
43	7.235	VB	0.0126	1391.41052	1698.32605	0.09517
44	7.408	VV	0.0269	4770.99609	2426.70410	0.32633
45	7.478	VV	0.0154	2410.33179	2259.20752	0.16487
46	7.497	VV	0.0105	977.33160	1338.32080	0.06685
47	7.528	VV	0.0180	3.46068e4	2.87725e4	2.36709
48	7.614	VV	0.0362	3511.36401	1232.90845	0.24018
49	7.664	VV	0.0211	1757.37695	1159.88208	0.12020
50	7.693	VV	0.0202	5189.94189	3742.81299	0.35499
51	7.734	VV	0.0217	4528.81689	2880.78442	0.30977

Peak #	RetTime [min]	Type	Width [min]	Area counts*s	Height [counts]	Area
52	7.763	VV	0.0184	3.10725e4	2.52038e4	2.12535
53	7.796	VV	0.0186	5588.35010	4453.65869	0.38224
54	7.859	VV	0.0189	2.01570e5	1.47582e5	13.78731
55	7.948	VV	0.0290	3.04248e4	1.42186e4	2.08104
56	7.982	VV	0.0263	1.11818e4	5589.43799	0.76483
57	8.026	VV	0.0341	1.49188e4	5604.85596	1.02044
58	8.116	VV	0.0371	2.18248e4	7462.06641	1.49280
59	8.155	VV	0.0235	1.12819e4	6741.02002	0.77168
60	8.182	VV	0.0223	6874.98047	4394.96436	0.47025
61	8.237	VB	0.0273	2.85384e4	1.49181e4	1.95201
62	8.355	BV	0.0379	5455.81836	1996.66174	0.37318
63	8.404	VV	0.0430	6344.92529	1851.98450	0.43399
64	8.471	VV	0.0367	8827.58398	3149.46045	0.60380
65	8.603	VV	0.0443	3678.69678	1064.96326	0.25162
66	8.706	VV	0.0287	8232.95703	4225.47803	0.56313
67	8.762	VV	0.0275	8969.45898	4861.86328	0.61351
68	8.811	VV	0.0257	1.20788e4	7148.80664	0.82618
69	8.872	VV	0.0262	9444.31543	5467.78174	0.64599
70	8.912	VP	0.0250	1408.37952	819.90094	0.09633

Totals : 1.46200e6 1.06126e6

Results obtained with enhanced integrator!

=====
*** End of Report ***

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,1:29:44 PM

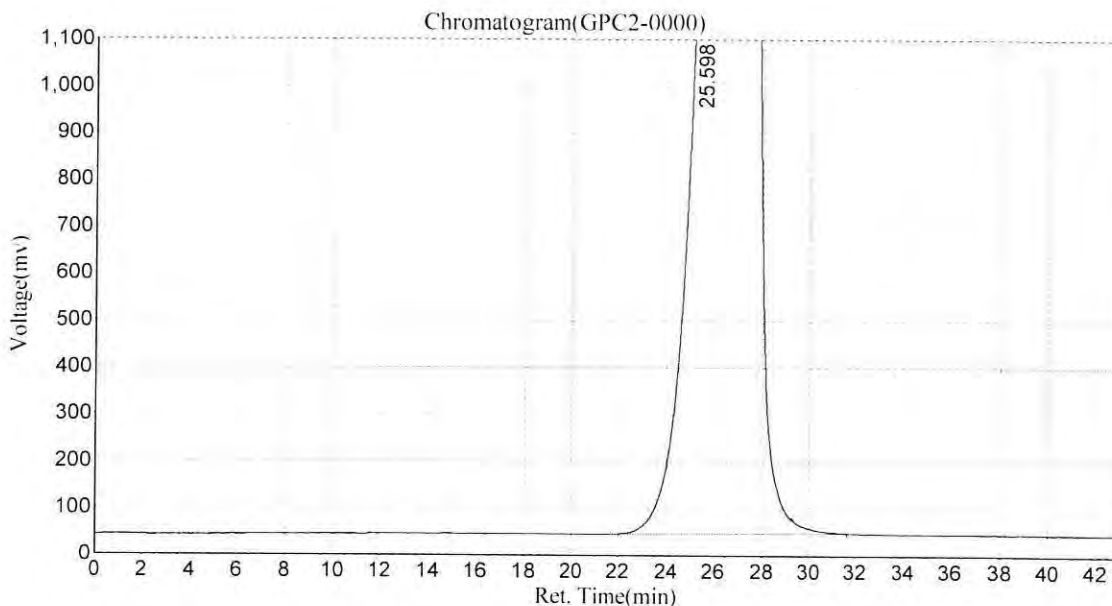
Data File:c:\n2000\data3\051117b\GPC2-0000

Method File:C:\N2000\GPC2_LL-Sim.mtd

BLK

Analyst : WW

Date/Time2017-05-11,1:29:45 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.598	1443508.250	289103072.000	100.0000
Total			1443508.250	289103072.000	100.000

Ingredient Table

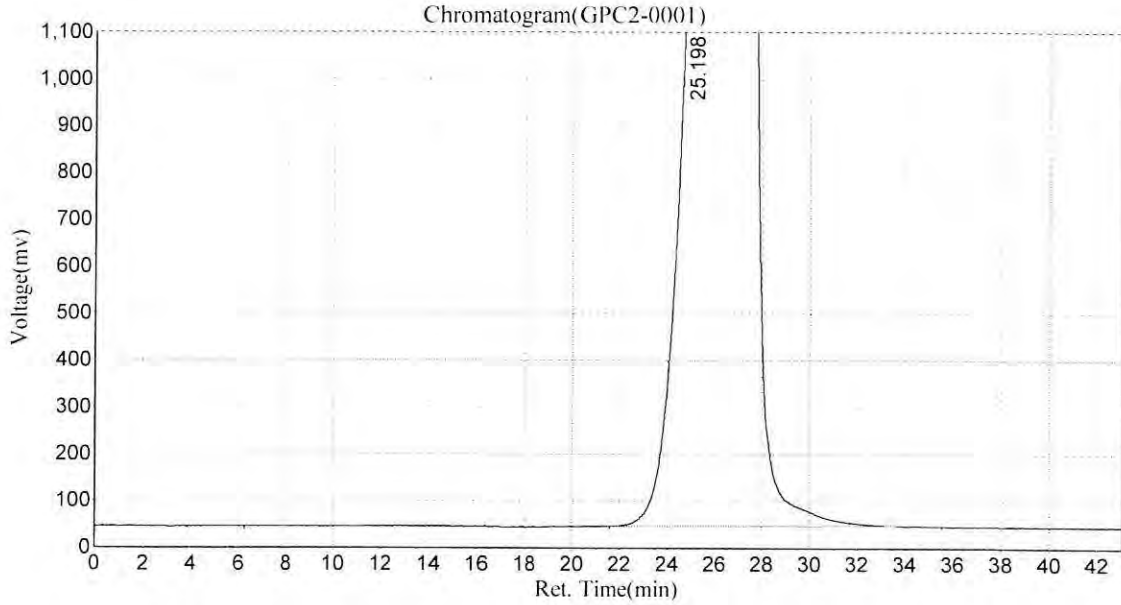
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,2:14:28 PM
 Data File:c:\n2000\data3\051117b\GPC2-0001
 Method File:C:\N2000\GPC2_LL-Sim.mtd

-BS

Analyst : WW
 Date/Time2017-05-11,2:14:29 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.198	1443312.000	320289376.000	100.0000
Total			1443312.000	320289376.000	100.000

Ingredient Table

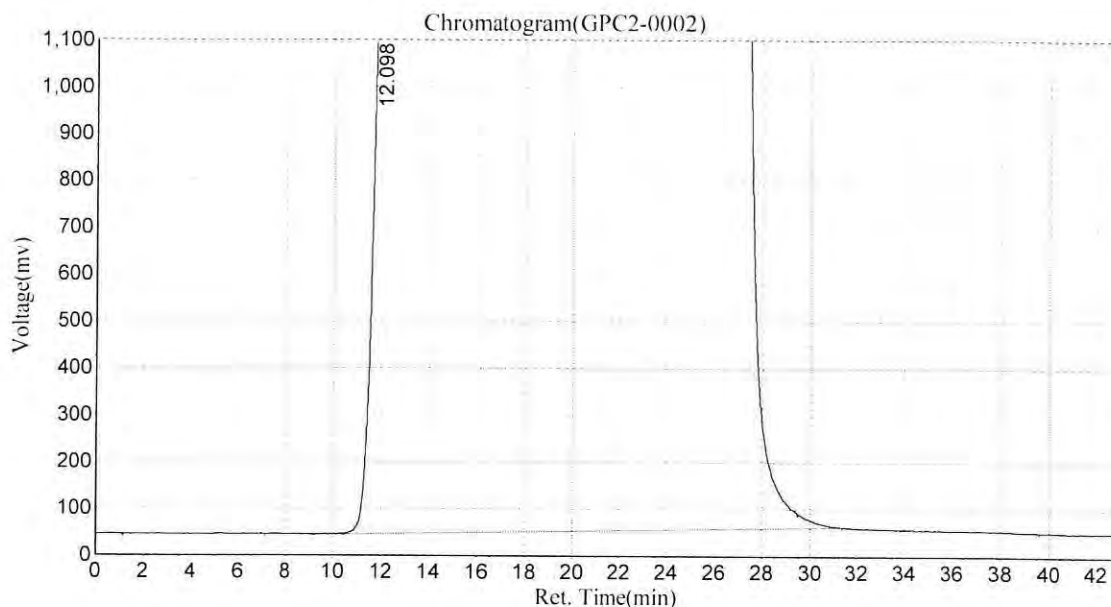
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date: 2017-05-11, 2:59:12 PM
 Data File: c:\n2000\data3\051117b\GPC2-0002
 Method File: C:\N2000\GPC2_LL-Sim.mtd

-01

Analyst : WW
 Date/Time 2017-05-11, 2:59:12 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.098	1442863.500	1386491520.000	100.0000
Total			1442863.500	1386491520.000	100.000

Ingredient Table

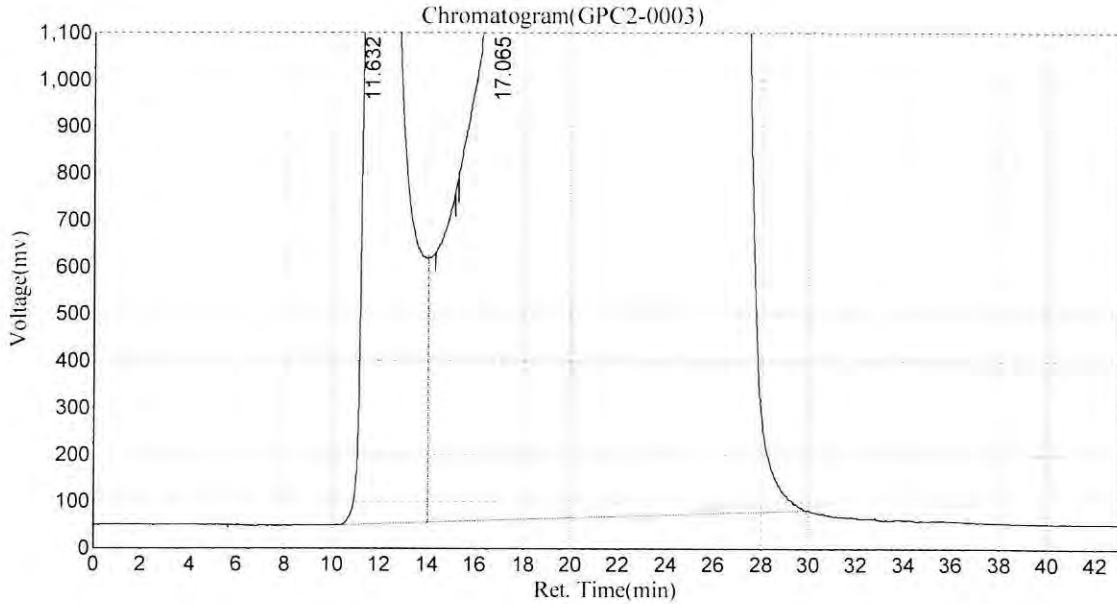
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,3:43:55 PM
 Data File:c:\n2000\data3\051117b\GPC2-0003
 Method File:C:\N2000\GPC2_LL-Sim.mtd

-02

Analyst : WW
 Date/Time:2017-05-11,3:43:56 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		11.632	1437140.750	186032704.000	14.8383
2		17.065	1428209.125	1067703552.000	85.1617
Total			2865349.875	1253736256.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,4:28:37 PM

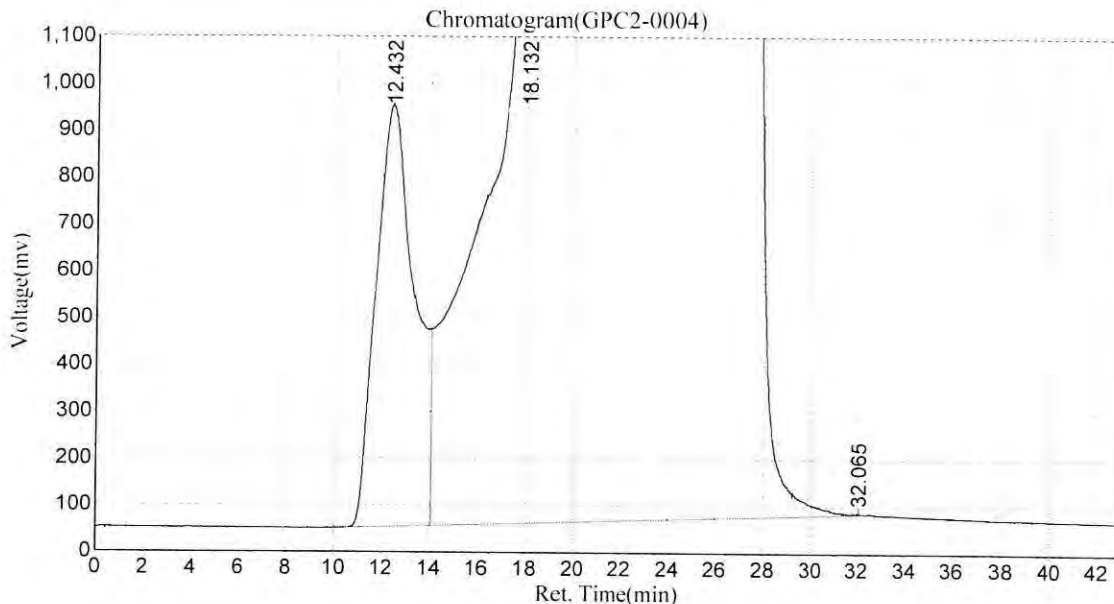
Data File:c:\n2000\data3\051117b\GPC2-0004

Method File:C:\N2000\GPC2_LL-Sim.mtd

Analyst : WW

Date/Time2017-05-11,4:28:38 PM

03



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.432	900649.125	101476608.000	8.9673
2		18.132	1427567.000	1029969856.000	91.0161
3		32.065	6162.251	188695.484	0.0167
Total			2334378.376	1131635159.484	100.000

Ingredient Table

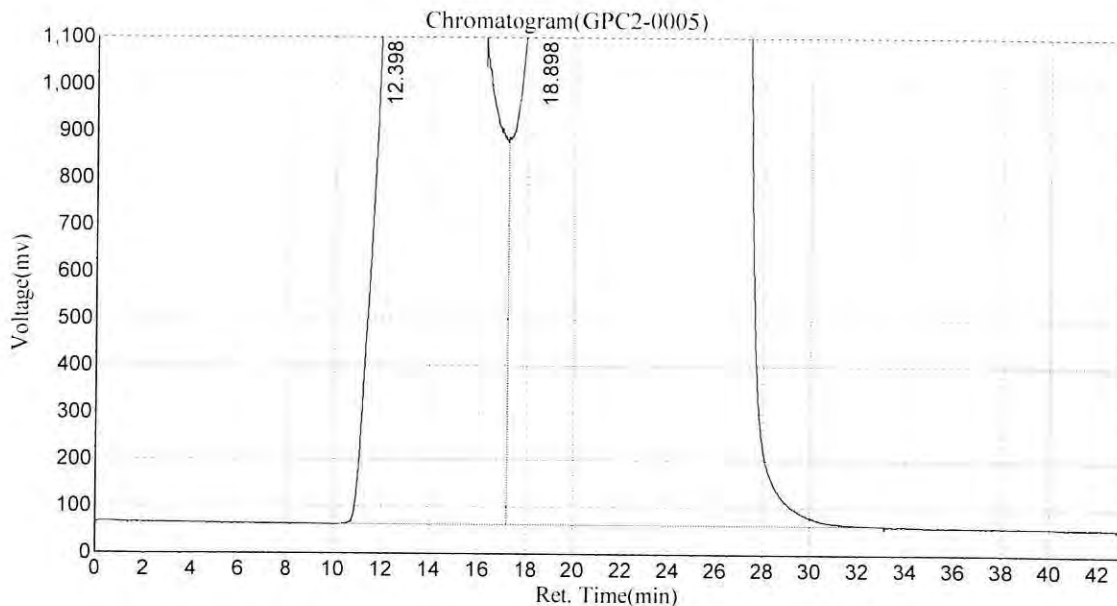
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,5:13:18 PM
 Data File:c:\n2000\data3\051117b\GPC2-0005
 Method File:C:\N2000\GPC2_LL-Sim.mtd

Analyst : WW
 Date/Time2017-05-11,5:13:19 PM

-04



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.398	1427524.500	443720608.000	34.4237
2		18.898	1317098.375	845277376.000	65.5763
Total			2744622.875	1288997984.000	100.000

Ingredient Table

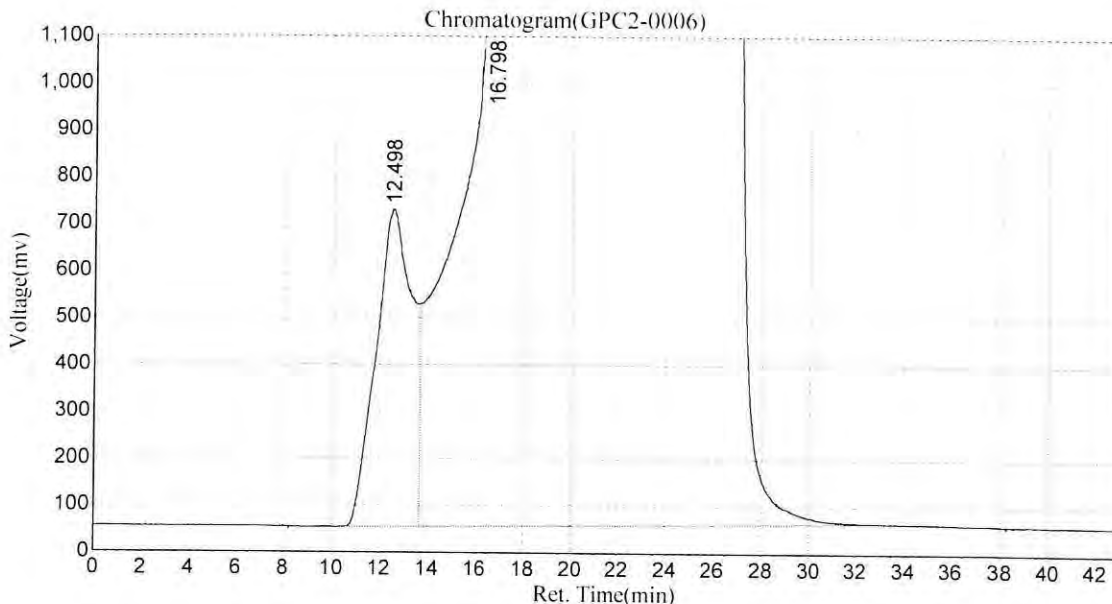
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012-LL Sim PNA

Date:2017-05-11,5:58:00 PM
 Data File:c:\n2000\data3\051117b\GPC2-0006
 Method File:C:\N2000\GPC2_LL-Sim.mtd

OS

Analyst : WW
 Date/Time:2017-05-11,5:58:01 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.498	675331.375	71498648.000	6.3695
2		16.798	1432324.500	1051021504.000	93.6305
Total			2107655.875	1122520152.000	100.000

Ingredient Table

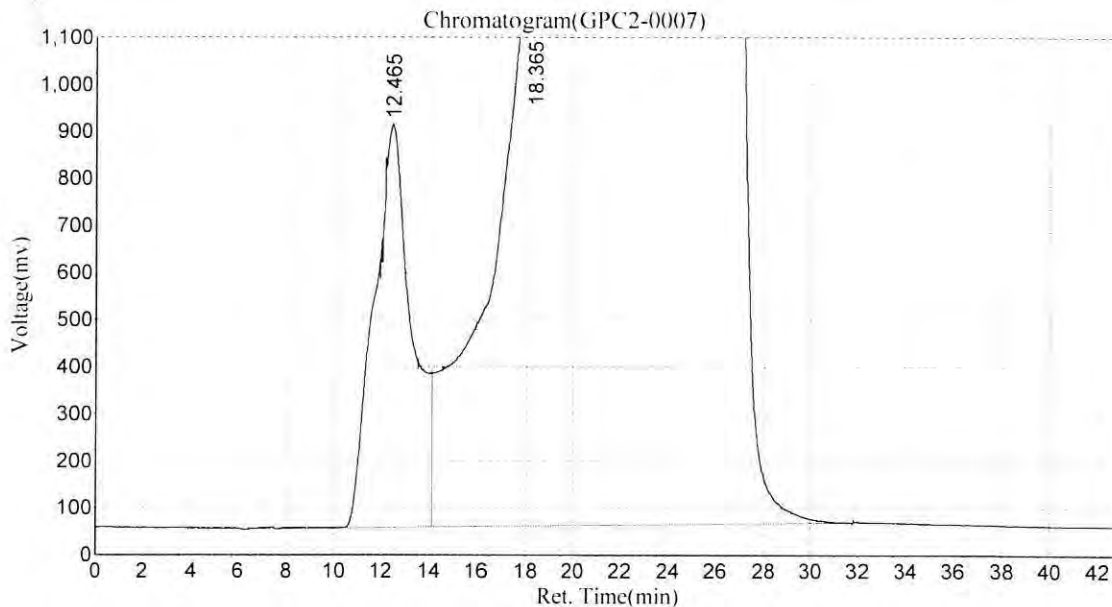
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,6:42:43 PM
 Data File:c:\n2000\data3\051117b\GPC2-0007
 Method File:C:\N2000\GPC2_LL-Sim.mtd

φb

Analyst : WW
 Date/Time2017-05-11,6:42:44 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.465	855682.375	94523784.000	9.1965
2		18.365	1427315.125	933301184.000	90.8035
Total			2282997.500	1027824968.000	100.000

Ingredient Table

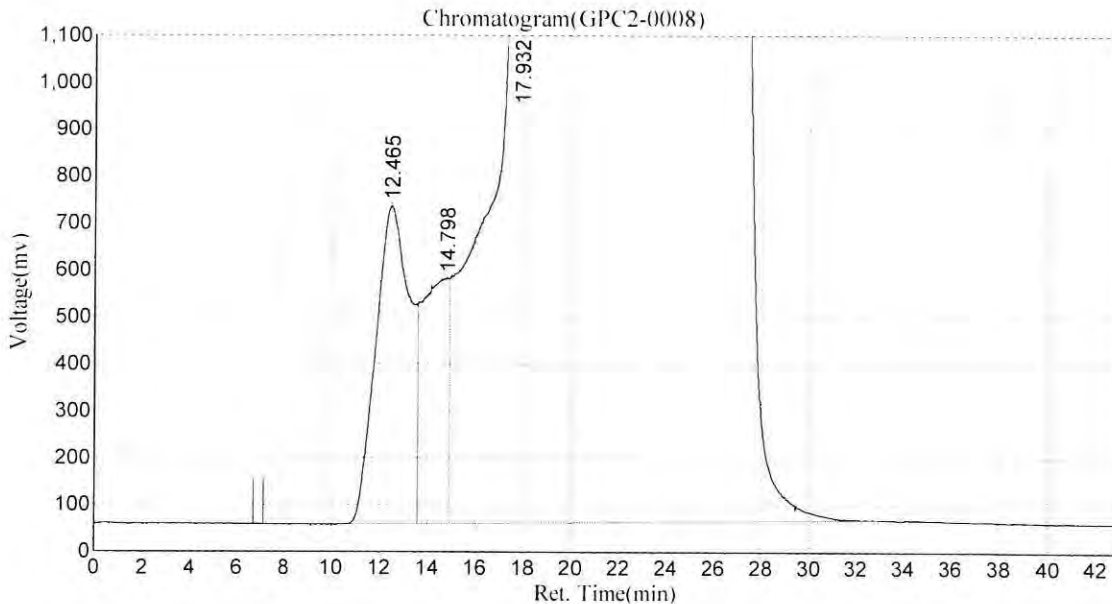
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,7:27:27 PM
 Data File:c:\n2000\data3\051117b\GPC2-0008
 Method File:C:\N2000\GPC2_LL-Sim.mtd

07

Analyst : WW
 Date/Time2017-05-11,7:27:28 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.465	677227.500	67930760.000	6.2048
2		14.798	523627.219	39107892.000	3.5721
3		17.932	1428515.250	987762368.000	90.2230
Total			2629369.969	1094801020.000	100.000

Ingredient Table

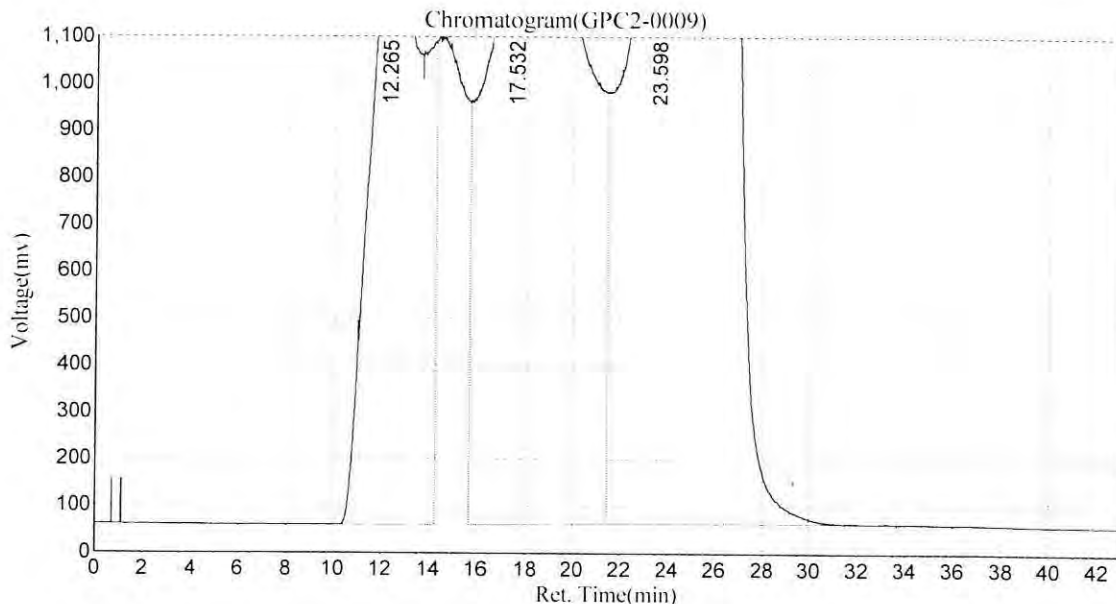
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,8:12:10 PM
 Data File:c:\n2000\data3\051117b\GPC2-0009
 Method File:C:\N2000\GPC2_LL-Sim.mtd

08

Analyst : WW
 Date/Time2017-05-11,8:12:11 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.265	1429920.000	218348432.000	19.8322
2		17.532	1428606.375	415315296.000	37.7223
3		23.598	1427093.125	467317152.000	42.4455
Total			4285619.500	1100980880.000	100.000

Ingredient Table

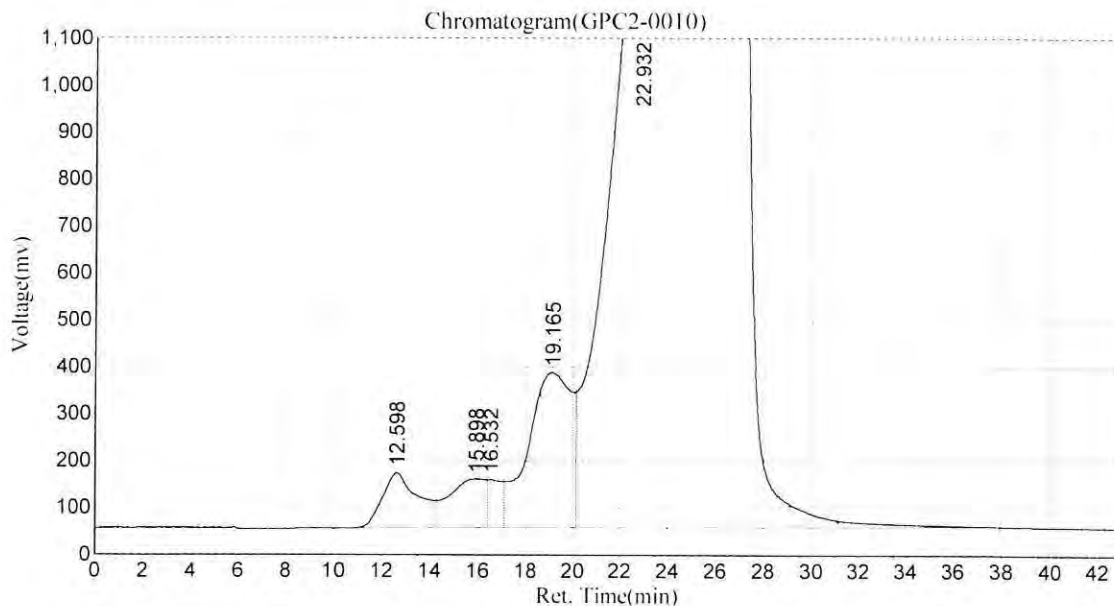
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,8:56:53 PM
 Data File:c:\n2000\data3\051117b\GPC2-0010
 Method File:C:\N2000\GPC2_LL-Sim.mtd

-09

Analyst : WW
 Date/Time:2017-05-11,8:56:54 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.598	118226.297	12435597.000	2.0323
2		15.898	104841.680	11085315.000	1.8116
3		16.532	102875.102	4439665.000	0.7256
4		19.165	330709.000	41919776.000	6.8509
5		22.932	1430957.375	542011264.000	88.5796
Total			2087609.453	611891617.000	100.000

Ingredient Table

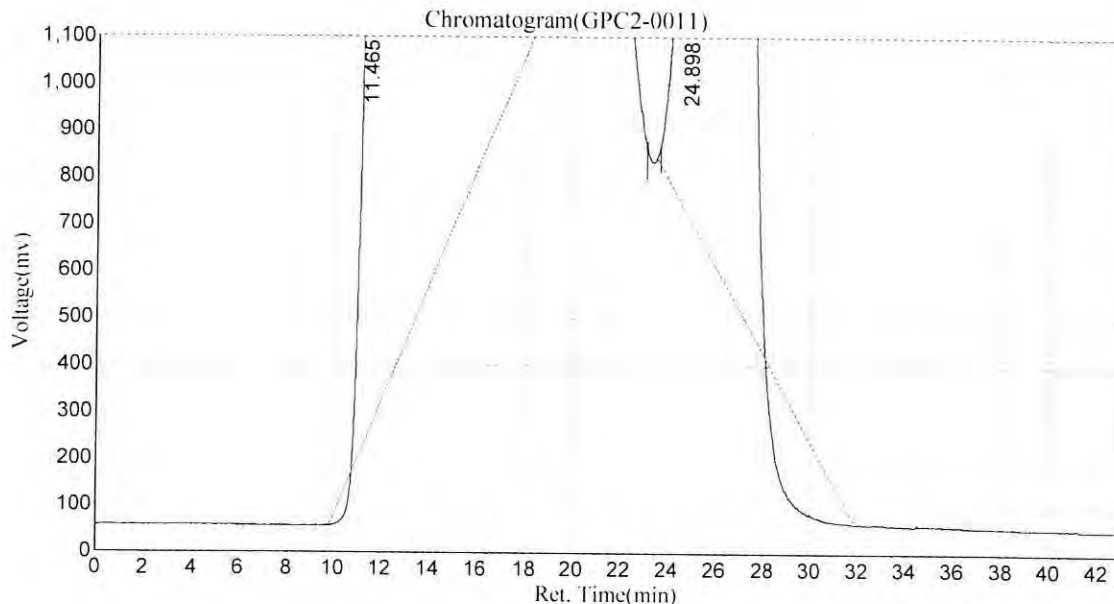
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-11,9:41:37 PM
 Data File:c:\n2000\data3\051117b\GPC2-0011
 Method File:C:\N2000\GPC2_LL-Sim.mtd

Analyst : WW
 Date/Time:2017-05-11,9:41:38 PM

10



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		11.465	1231188.000	397499840.000	71.2879
2		24.898	778092.813	160097792.000	28.7121
Total			2009280.813	557597632.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date/Time: 2017-05-11,10:26:17 PM

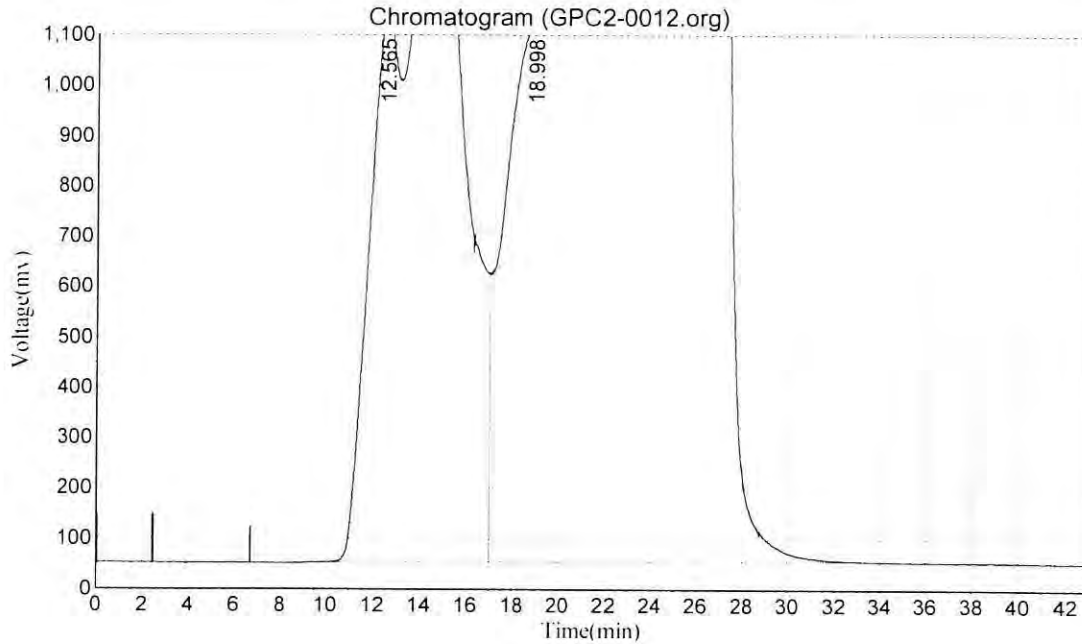
Analyst: WW

Data File: C:\N2000\data3\051117b\GPC2-0012.org

Date/Time: 2017-05-12,11:05:03 AM

Method File: C:\N2000\GPC2_LL-Sim.mtd

0/



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc.
1		12.565	1102263.375	341384576.000	29.8018
2		18.998	1059764.500	804130688.000	70.1982
Total			2162027.875	1145515264.000	100.0000

Ingredient table

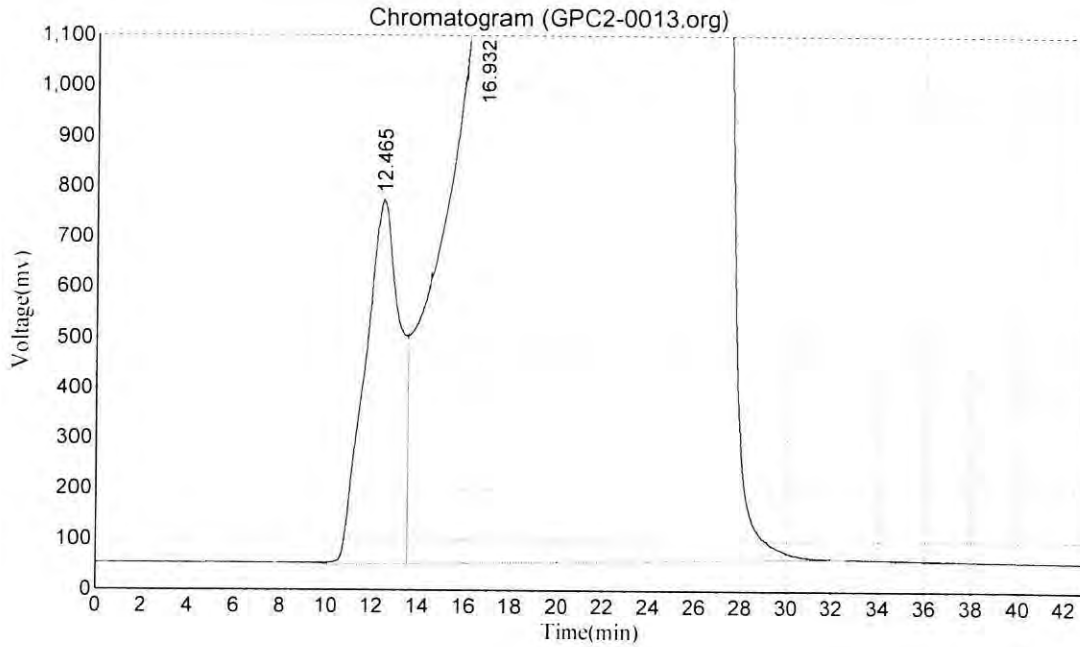
No.	Peak ID	Ret. Time	Peak Width	Factor 1	Factor 2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date/Time: 2017-05-11,11:11:01 PM
 Data File: C:\N2000\data3\051117b\GPC2-0013.org
 Method File: C:\N2000\GPC2_LL-Sim.mtd

02

Analyst: WW
 Date/Time: 2017-05-12,11:05:18 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc.
1		12.465	719246.750	76196504.000	6.5078
2		16.932	1433136.000	1094650112.000	93.4922
Total			2152382.750	1170846616.000	100.0000

Ingredient table

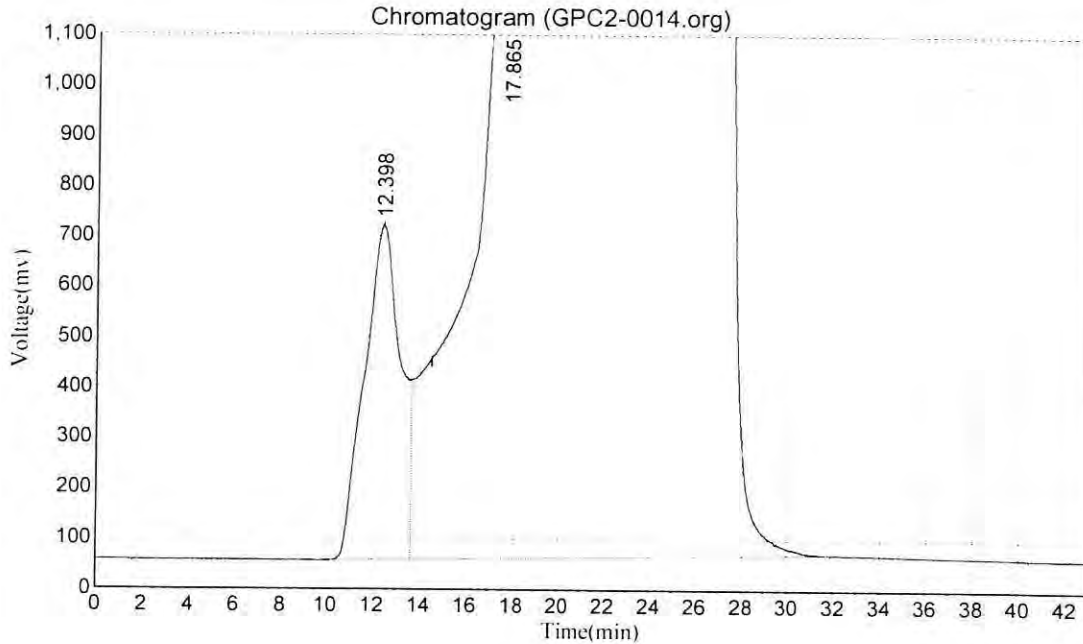
No.	Peak ID	Ret. Time	Peak Width	Factor 1	Factor 2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date/Time: 2017-05-11, 11:55:44 PM
 Data File: C:\N2000\data3\051117b\GPC2-0014.org
 Method File: C:\N2000\GPC2_LL-Sim.mtd

OS

Analyst: WW
 Date/Time: 2017-05-12, 11:05:41 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc.
1		12.398	667369.125	70633456.000	6.5167
2		17.865	1427328.375	1013245504.000	93.4833
Total			2094697.500	1083878960.000	100.0000

Ingredient table

No.	Peak ID	Ret. Time	Peak Width	Factor 1	Factor 2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160-17D0421/17E0012 LL Sim PNA

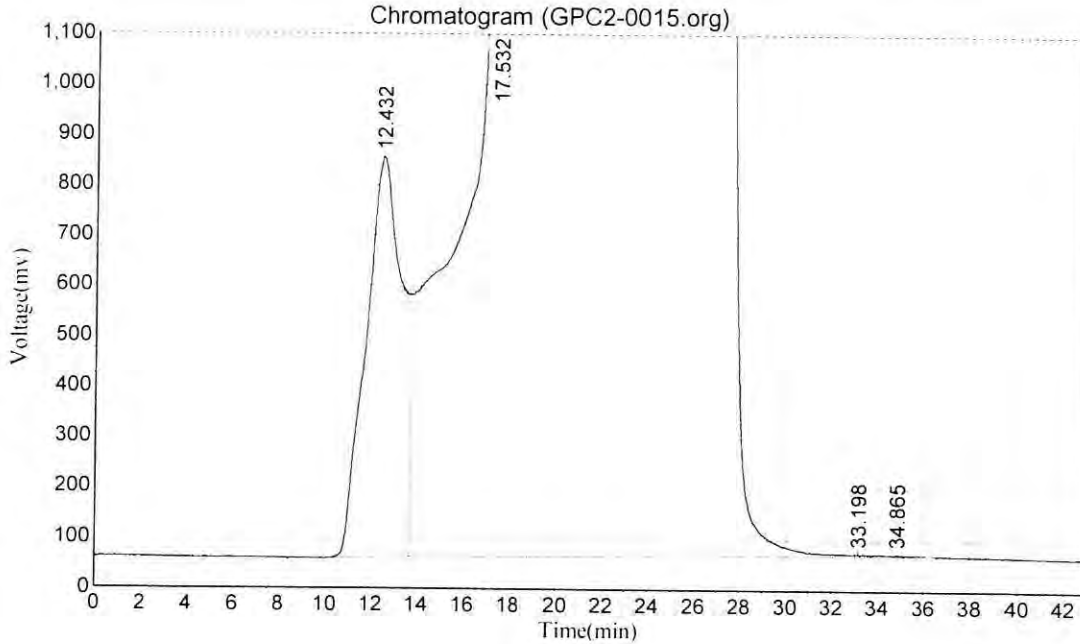
Date/Time: 2017-05-12, 12:40:27 AM

Data File: C:\N2000\data3\051117b\GPC2-0015.org - 04

Method File: C:\N2000\GPC2_LL-Sim.mtd

Analyst: WW

Date/Time: 2017-05-12, 11:06:16 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc.
1		12.432	794252.188	87831920.000	7.6660
2		17.532	1426839.250	1057513152.000	92.3001
3		33.198	4973.271	188943.375	0.0165
4		34.865	3216.844	199166.234	0.0174
Total			2229281.552	1145733181.609	100.0000

Ingredient table

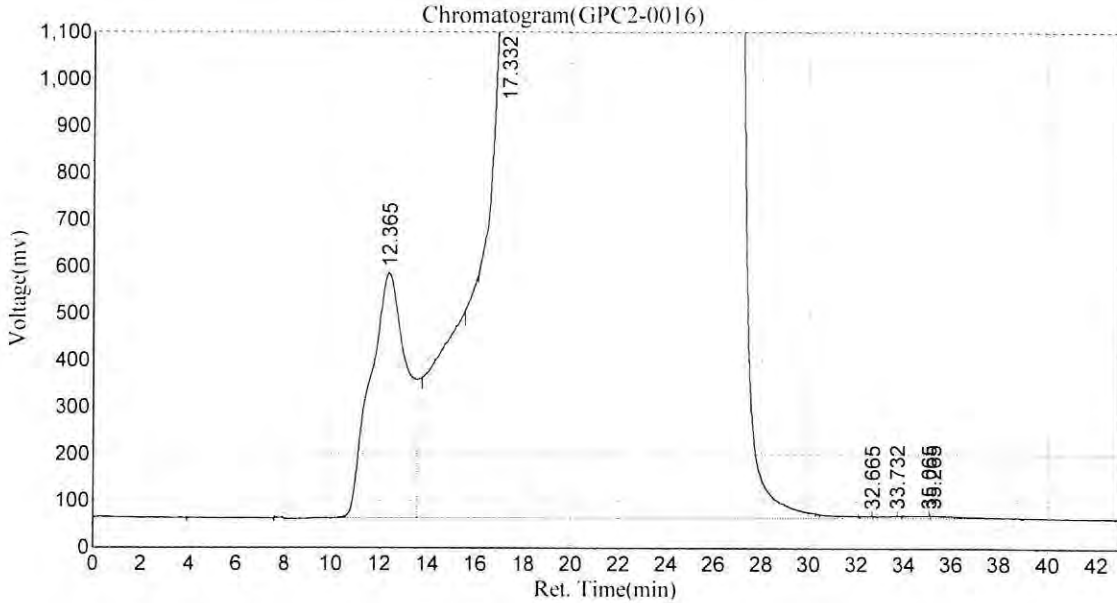
No.	Peak ID	Ret. Time	Peak Width	Factor 1	Factor 2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-12,1:25:11 AM
 Data File:c:\n2000\data3\051117b\GPC2-0016
 Method File:C:\N2000\GPC2_LL-Sim.mtd

45

Analyst : WW
 Date/Time 2017-05-12,1:25:11 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.365	524013.375	55453816.000	5.2828
2		17.332	1426847.375	992938048.000	94.5918
3		32.665	4843.025	186415.297	0.0178
4		33.732	5063.830	299451.000	0.0285
5		35.065	5480.585	375614.813	0.0358
6		35.265	5468.799	454726.063	0.0433
Total			1971716.989	1049708071.172	100.000

Ingredient Table

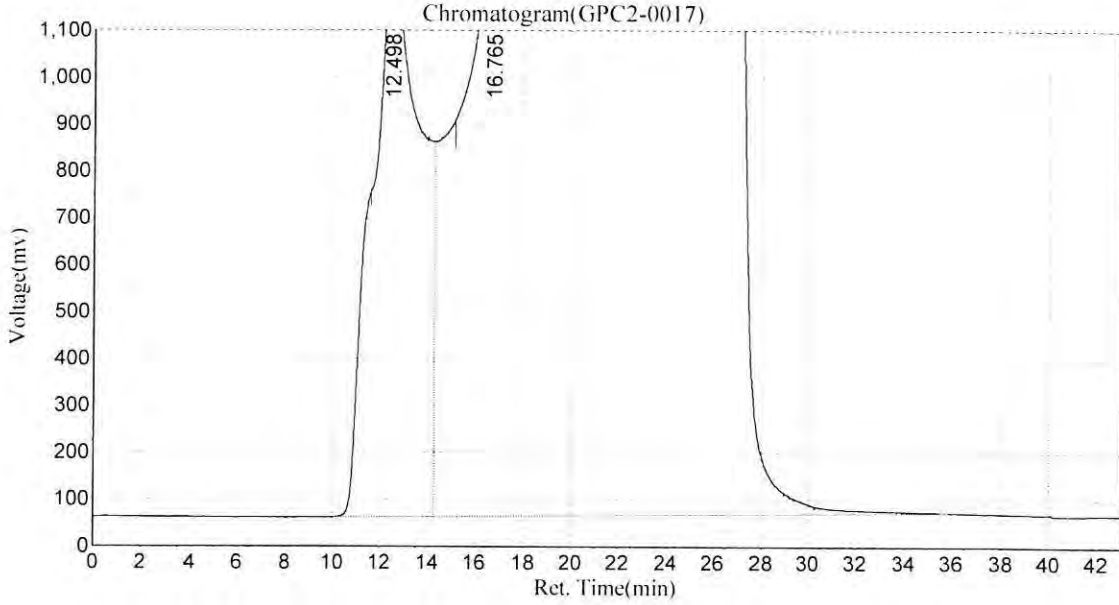
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000

BFE0160 17D0421/17E0012 LL Sim PNA

Date:2017-05-12,2:09:55 AM
 Data File:c:\n2000\data3\051117b\GPC2-0017
 Method File:C:\N2000\GPC2_LL-Sim.mtd

06

Analyst : WW
 Date/Time 2017-05-12,2:09:56 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		12.498	1225022.000	171162864.000	13.8155
2		16.765	1424538.250	1067753472.000	86.1845
Total			2649560.250	1238916336.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect BAN	16.500	0.010	0.00E+000	0.00E+000	0.0000
2	Dump BAN	39.000	0.010	0.00E+000	0.00E+000	0.0000



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Cleanup Batch: CFE0094

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 8270D-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-WS-COC-COC-170425	17D0421-05	N1117051609.D	05/12/2017	
PG-GP-COC-COC-170424	17D0421-02	N1117051606.D	05/12/2017	
PG-GP-LTN-COC-170424	17D0421-03	N1117051703.D	05/12/2017	
PG-GP-OYS-COC-170424	17D0421-01	N1117051605.D	05/12/2017	
PG-SMA3-DUNH-COC-170426	17D0421-10	N1117051614.D	05/12/2017	
PG-SMA3-GEO-COC-170426	17D0421-08	N1117051612.D	05/12/2017	
PG-WS-LTN-COC-170424	17D0421-06	N1117051610.D	05/12/2017	
PG-WS-MAN-COC-170424	17D0421-07	N1117051611.D	05/12/2017	
PG-WS-OYS-COC-170424	17D0421-04	N1117051608.D	05/12/2017	
PG-SMA3-DUNM-COC-170426	17D0421-09	N1117051613.D	05/12/2017	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Cleanup Batch: CFE0093

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup

Analysis: EPA 8270D-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-GP-COC-COC-170424	17D0421-02	N1117051606.D	05/11/2017	
PG-WS-OYS-COC-170424	17D0421-04	N1117051608.D	05/11/2017	
PG-WS-MAN-COC-170424	17D0421-07	N1117051611.D	05/11/2017	
PG-WS-LTN-COC-170424	17D0421-06	N1117051610.D	05/11/2017	
PG-WS-COC-COC-170425	17D0421-05	N1117051609.D	05/11/2017	
PG-SMA3-GEO-COC-170426	17D0421-08	N1117051612.D	05/11/2017	
PG-SMA3-DUNM-COC-170426	17D0421-09	N1117051613.D	05/11/2017	
PG-SMA3-DUNH-COC-170426	17D0421-10	N1117051614.D	05/11/2017	
PG-GP-OYS-COC-170424	17D0421-01	N1117051605.D	05/11/2017	
PG-GP-LTN-COC-170424	17D0421-03	N1117051703.D	05/11/2017	



CLEANUP BENCH SHEET

CFE0093

Printed: 5/12/2017 3:46:12PM

Cleanup using: Organics - EPA 3640A GPC Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17E0012-06	A	PG-PJ-AUS-COC-170427	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17E0012-05	A	PG-PJ-HC-COC-170428	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17E0012-04	A	PG-PJ-MAN-COC-170427	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17E0012-03	A	PG-PJ-LTN-COC-170427	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17E0012-02	A	PG-PJ-COC-COC-170427	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17E0012-01	A	PG-PJ-OYS-COC-170427	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-10	A	PG-SMA3-DJNH-COC-170426	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-09	A	PG-SMA3-DJNH-COC-170426	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-08	A	PG-SMA3-GEO-COC-170426	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-07	A	PG-WS-MAN-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-06	A	PG-WS-LTN-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-05	A	PG-WS-COC-COC-170425	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-04	A	PG-WS-OYS-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-03	A	PG-GP-LTN-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-02	A	PG-GP-COC-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
17D0421-01	A	PG-GP-OYS-COC-170424	A 01	0.5	0.5	70D-SIM PAH Low (0.01 ug/L - 0.5 ug/	5/12/2017	SDP	
BFE0160-B51	-	LCS	-	0.5	0.5	-	5/12/2017	SDP	
BFE0160-BLK1	-	Blank	-	0.5	0.5	-	5/12/2017	SDP	



Form I
METHOD BLANK DATA SHEET
EPA 8270D-SIM

Blank

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17D0421</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>	
Matrix: <u>Tissue</u>	Laboratory ID: <u>BFE0160-BLK1</u>	File ID: <u>N1117051603.D</u>
Sampled: <u>N/A</u>	Prepared: <u>05/09/17 13:50</u>	Analyzed: <u>05/16/17 11:35</u>
Solids:	Preparation: <u>EPA 3550C-Mod (Ultrasonic)</u>	Initial/Final: <u>10 g / 0.5 mL</u>
Batch: <u>BFE0160</u>	Sequence: <u>SFE0208</u>	Calibration: <u>AE00020</u>
Instrument: <u>NT11</u>	Column: <u>RXi-17Sil-MS</u>	

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg)	Q	DL	RL
91-20-3	Naphthalene	1	0.60	U	0.50	0.60
91-57-6	2-Methylnaphthalene	1	0.50	U	0.50	0.50
208-96-8	Acenaphthylene	1	0.50	U	0.50	0.50
83-32-9	Acenaphthene	1	0.50	U	0.50	0.50
86-73-7	Fluorene	1	0.50	U	0.50	0.50
85-01-8	Phenanthrene	1	0.50	U	0.50	0.50
120-12-7	Anthracene	1	0.50	U	0.50	0.50
206-44-0	Fluoranthene	1	0.50	U	0.50	0.50
129-00-0	Pyrene	1	0.50	U	0.50	0.50
56-55-3	Benzo(a)anthracene	1	0.50	U	0.50	0.50
218-01-9	Chrysene	1	0.50	U	0.50	0.50
205-99-2	Benzo(b)fluoranthene	1	0.50	U	0.50	0.50
207-08-9	Benzo(k)fluoranthene	1	0.50	U	0.50	0.50
50-32-8	Benzo(a)pyrene	1	0.50	U	0.50	0.50
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.50	U	0.50	0.50
53-70-3	Dibenzo(a,h)anthracene	1	0.50	U	0.50	0.50
191-24-2	Benzo(g,h,i)perylene	1	0.50	U	0.50	0.50
1985-5-0	Perylene	1	0.50	U	0.50	0.50
197-97-2	Benzo(e)pyrene	1	0.50	U	0.50	0.50

SURROGATES	ADDED (ug/kg)	CONC (ug/kg)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	15.000	7.91	52.7	30 - 160	
Dibenzo[a,h]anthracene-d14	15.000	10.9	72.8	30 - 160	
Fluoranthene-d10	15.000	11.7	77.7	30 - 160	

Data File: \\target\share\chem3\nt11.1\20170516.6\N1117051603.D

Date: 16-May-2017 11:35

Client ID:

Sample Info: BFE0160-BLK1

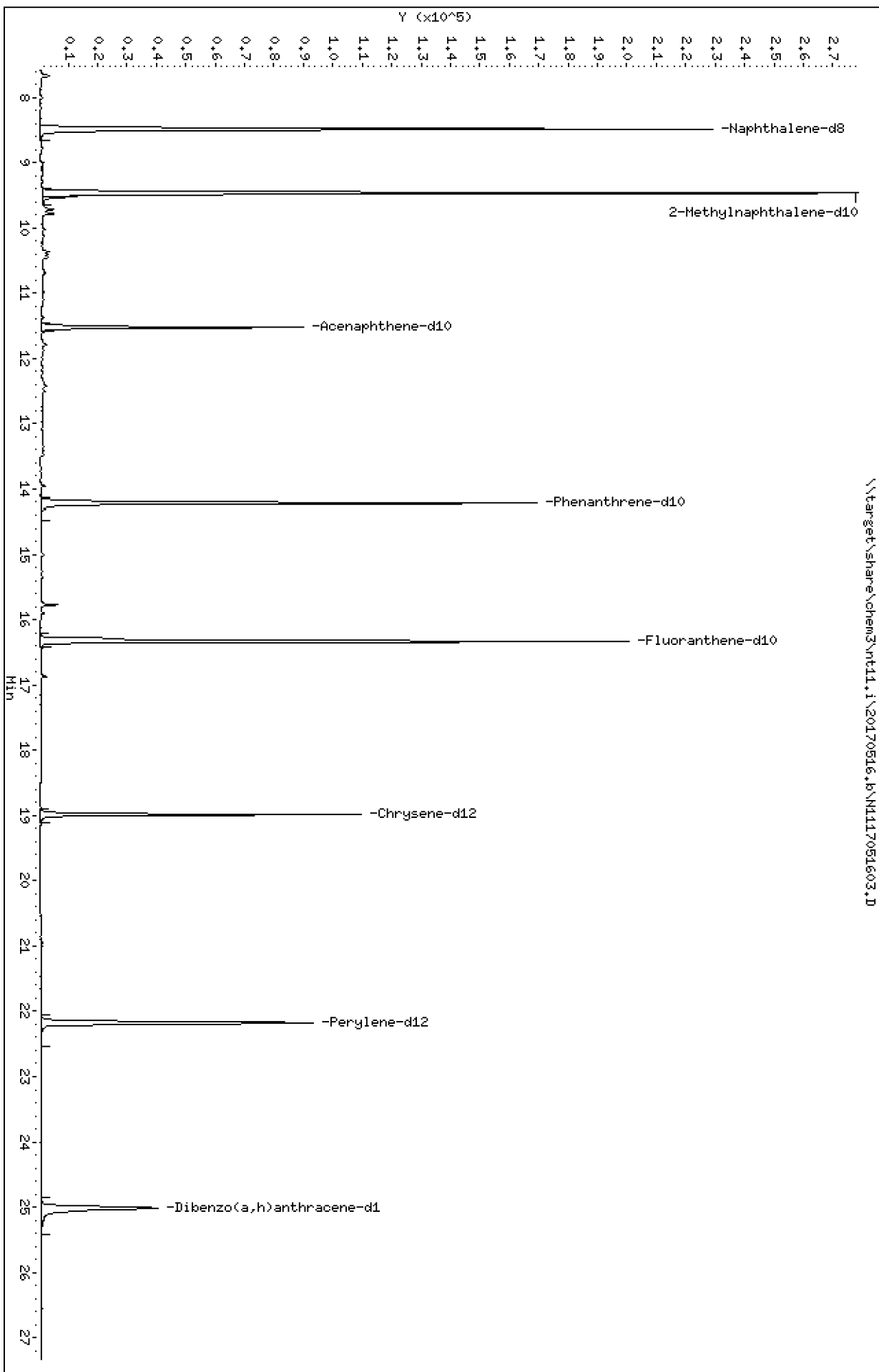
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt11.1\20170516.6\N1117051603.D



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170516.b\N1117051603.D
 Lab Smp Id: BFE0160-BLK1
 Inj Date : 16-MAY-2017 11:35 MS Autotune Date: 15-JAN-2015 16:59
 Operator : VTS Inst ID: nt11.i
 Smp Info : BFE0160-BLK1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Meth Date : 17-May-2017 08:15 nt11.i Quant Type: ISTD
 Cal Date : 05-MAY-2017 14:47 Cal File: 17050508.D
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allpna.sub
 Target Version: 4.14
 Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ng/mL)
* 1 Naphthalene-d8	136		8.491	8.500	(1.000)	447653	200.000	
2 Naphthalene	128		Compound Not Detected.					
3 Benzo(b)thiophene	134		Compound Not Detected.					
\$ 4 2-Methylnaphthalene-d10	152		9.467	9.477	(1.115)	303354	158.133	158
5 2-Methylnaphthalene	142		Compound Not Detected.					
6 1-Methylnaphthalene	142		Compound Not Detected.					
7 2-Chloronaphthalene	162		Compound Not Detected.					
8 Biphenyl	154		Compound Not Detected.					
9 2,6-Dimethylnaphthalene	156		Compound Not Detected.					
10 Acenaphthylene	152		Compound Not Detected.					
* 11 Acenaphthene-d10	164		11.528	11.528	(1.000)	173441	200.000	
12 Acenaphthene	153		Compound Not Detected.					
13 Dibenzofuran	168		Compound Not Detected.					
14 2,3,5-Trimethylnaphthalene	170		Compound Not Detected.					
\$ 15 Fluorene-d10	174		Compound Not Detected.					
16 Fluorene	166		Compound Not Detected.					
17 Dibenzothiophene	184		Compound Not Detected.					
* 18 Phenanthrene-d10	188		14.220	14.220	(1.000)	275907	200.000	
19 Phenanthrene	178		Compound Not Detected.					
\$ 20 Anthracene-d10	188		Compound Not Detected.					
21 Anthracene	178		Compound Not Detected.					
22 Carbazole	167		Compound Not Detected.					
23 1-Methylphenanthrene	192		Compound Not Detected.					
\$ 24 Fluoranthene-d10	212		16.339	16.338	(1.149)	304127	233.170	233
25 Fluoranthene	202		Compound Not Detected.					
26 Pyrene	202		Compound Not Detected.					
27 Benzo(a)anthracene	228		Compound Not Detected.					
* 28 Chrysene-d12	240		18.983	18.983	(1.000)	182854	200.000	
29 Chrysene	228		Compound Not Detected.					
30 Benzo(b)fluoranthene	252		Compound Not Detected.					
31 Benzo(k)fluoranthene	252		Compound Not Detected.					
32 Benzo(j)fluoranthene	252		Compound Not Detected.					
\$ 33 Benzo(e)pyrene-d12	264		Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ng/mL)
34 Benzo(e)pyrene	252				Compound Not Detected.		
35 Benzo(a)pyrene	252				Compound Not Detected.		
* 36 Perylene-d12	264	22.173	22.173	(1.000)	206286	200.000	
37 Perylene	252				Compound Not Detected.		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.016	25.016	(1.128)	168095	218.450	218
39 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
40 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
41 Benzo(g,h,i)perylene	276				Compound Not Detected.		

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i Calibration Date: 16-MAY-2017
 Lab File ID: N1117051603.D Calibration Time: 10:47
 Lab Smp Id: BFE0160-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Misc Info:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	447653	20.56
11 Acenaphthene-d10	154428	77214	308856	173441	12.31
18 Phenanthrene-d10	256956	128478	513912	275907	7.38
28 Chrysene-d12	208629	104315	417258	182854	-12.35
36 Perylene-d12	225431	112716	450862	206286	-8.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.49	-0.10
11 Acenaphthene-d10	11.53	11.03	12.03	11.53	0.00
18 Phenanthrene-d10	14.22	13.72	14.72	14.22	0.00
28 Chrysene-d12	18.98	18.48	19.48	18.98	0.00
36 Perylene-d12	22.17	21.67	22.67	22.17	0.00

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

REVIEW SUMMARY FOR FILE - N1117051603.D

Lab ID: BFE0160-BLK1
nt11.i, 20170516.b\LOWSIM.m, 16-MAY-2017 11:35

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170516.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 6.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000



LCS / LCS DUPLICATE RECOVERY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Analyzed: 05/16/17 12:11
 Batch: BFE0160 Laboratory ID: BFE0160-BS1
 Preparation: EPA 3550C-Mod (Ultrasonic) Sequence Name: LCS
 Initial/Final: 10 g / 0.5 mL

COMPOUND	SPIKE ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	15.0	7.77		51.8	30 - 160
2-Methylnaphthalene	15.0	7.76		51.8	30 - 160
Acenaphthylene	15.0	8.06		53.7	30 - 160
Acenaphthene	15.0	8.77		58.5	30 - 160
Fluorene	15.0	8.91		59.4	30 - 160
Phenanthrene	15.0	9.89		65.9	30 - 160
Anthracene	15.0	8.27		55.1	30 - 160
Fluoranthene	15.0	11.3		75.3	30 - 160
Pyrene	15.0	13.3		88.6	30 - 160
Benzo(a)anthracene	15.0	12.3		82.0	30 - 160
Chrysene	15.0	13.1		87.5	30 - 160
Benzo(b)fluoranthene	15.0	12.1		80.5	30 - 160
Benzo(k)fluoranthene	15.0	11.9		79.0	30 - 160
Benzo(a)pyrene	15.0	8.77		58.5	30 - 160
Indeno(1,2,3-cd)pyrene	15.0	11.6		77.5	30 - 160
Dibenzo(a,h)anthracene	15.0	11.3		75.6	30 - 160
Benzo(g,h,i)perylene	15.0	11.4		75.7	30 - 160
Perylene	15.0	9.15		61.0	30 - 160
Benzo(e)pyrene	15.0	11.5		76.7	30 - 160

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170516.6\N1117051604.D

Date : 16-May-2017 12:11

Client ID:

Sample Info: BFE0160-BS1

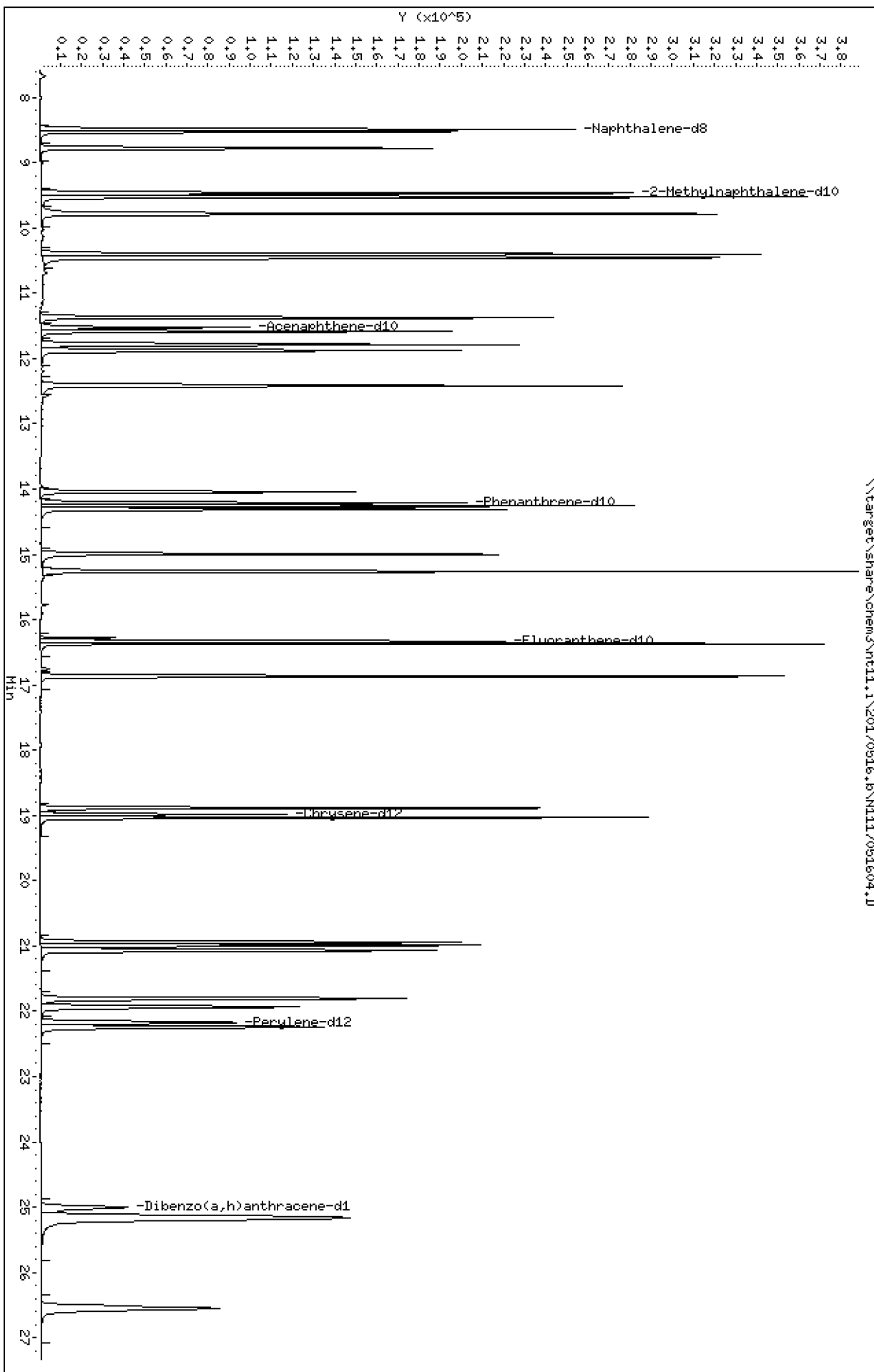
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

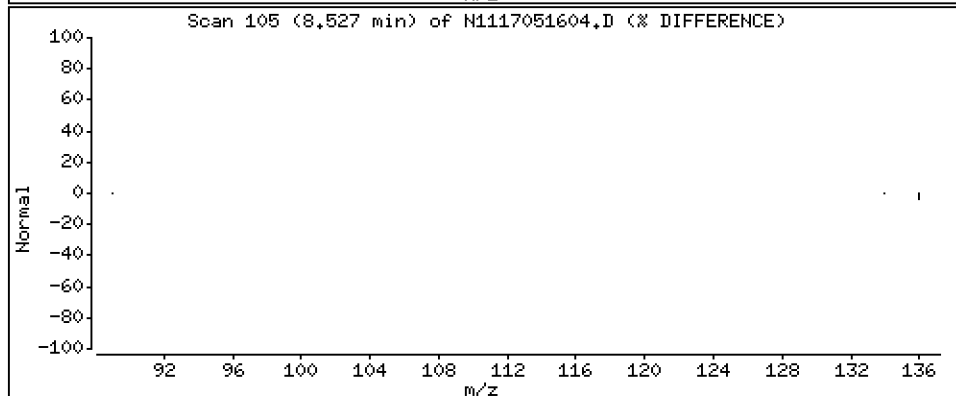
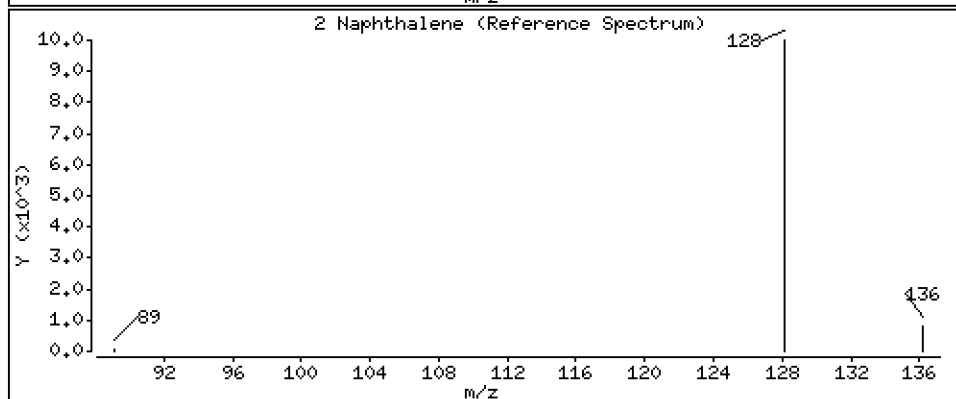
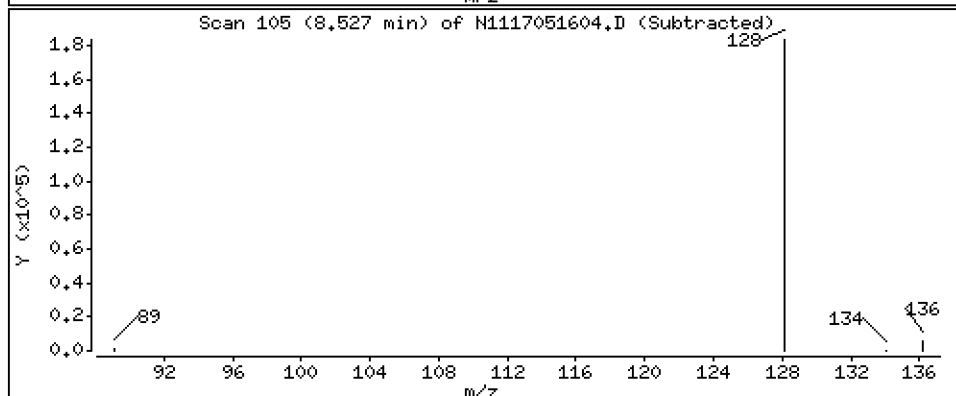
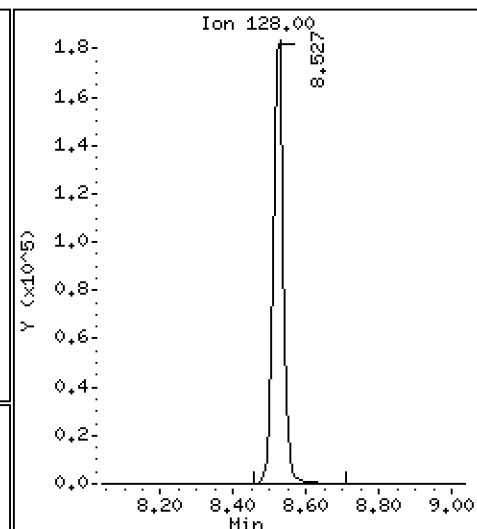
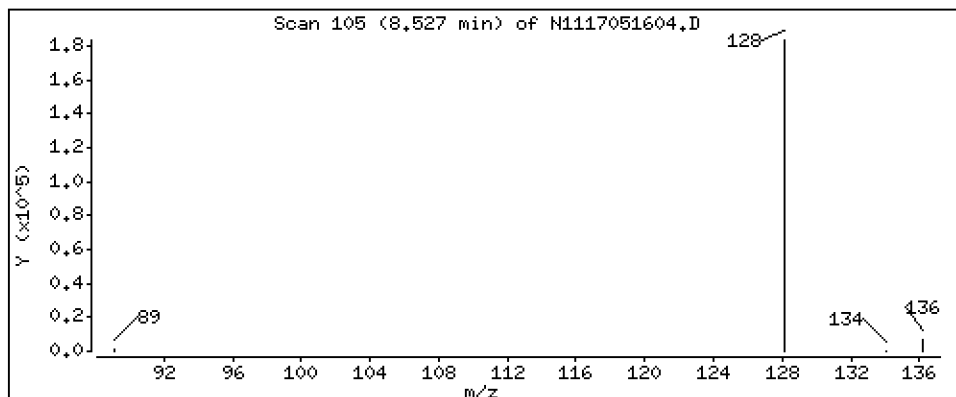
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

2 Naphthalene

Concentration: 155 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

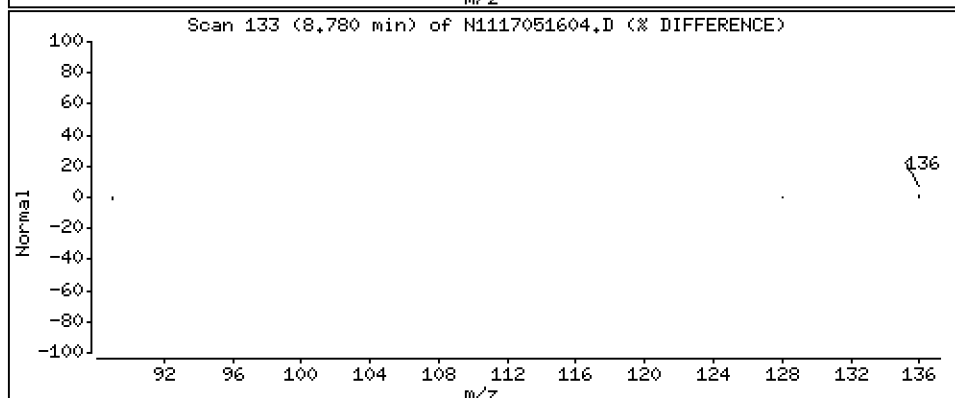
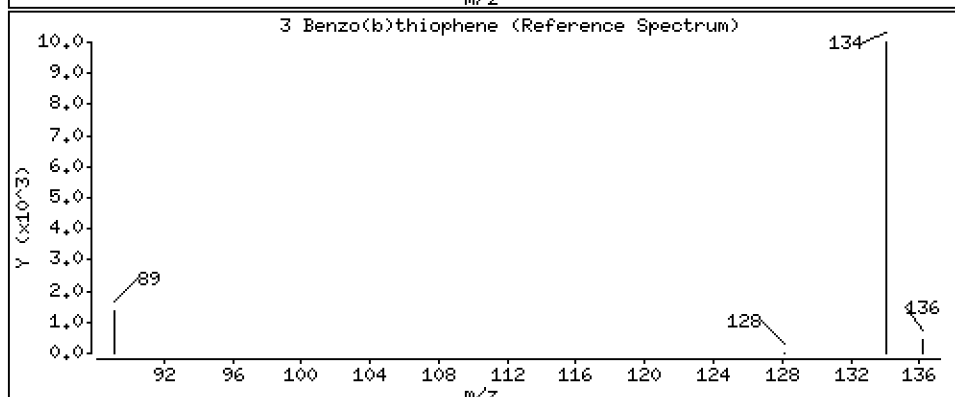
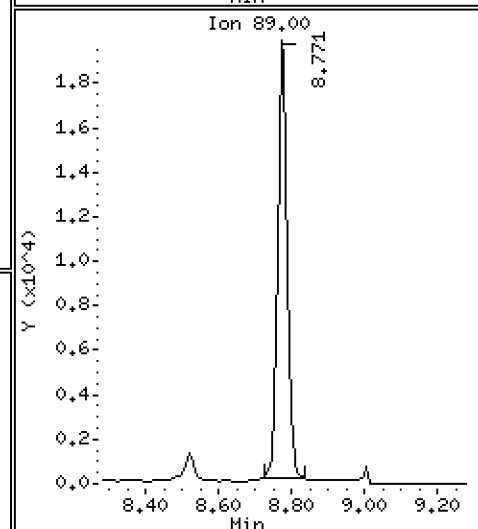
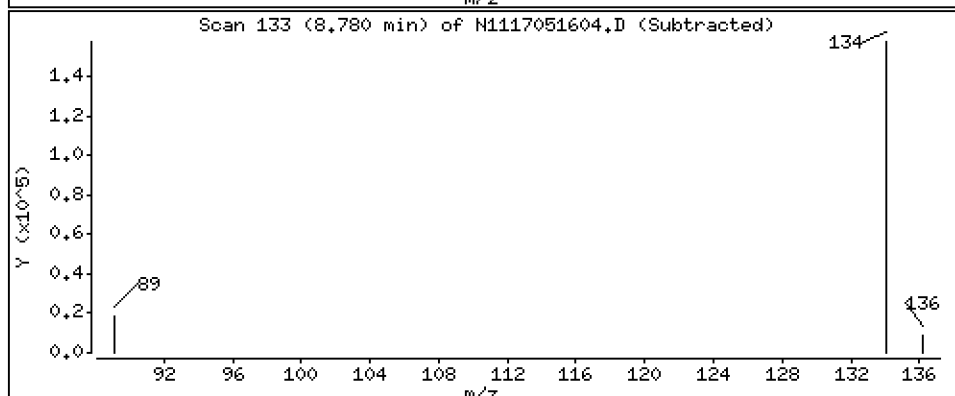
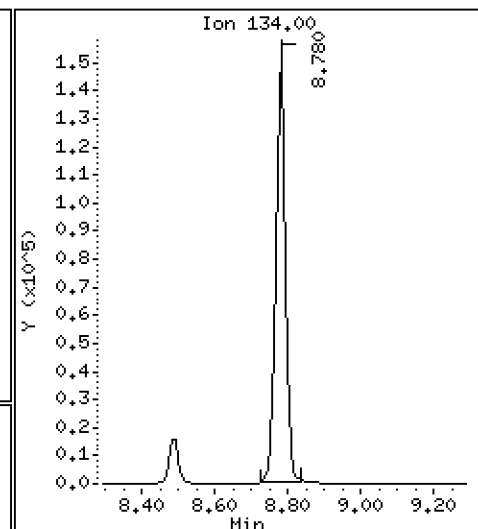
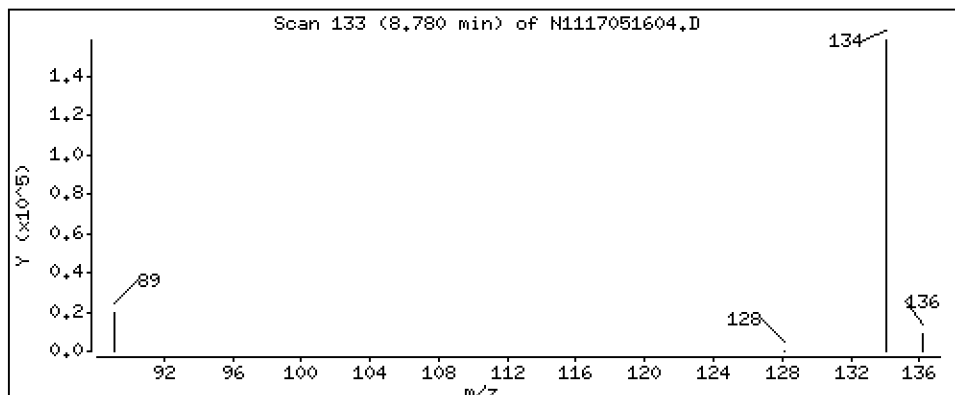
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

3 Benzo(b)thiophene

Concentration: 156 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

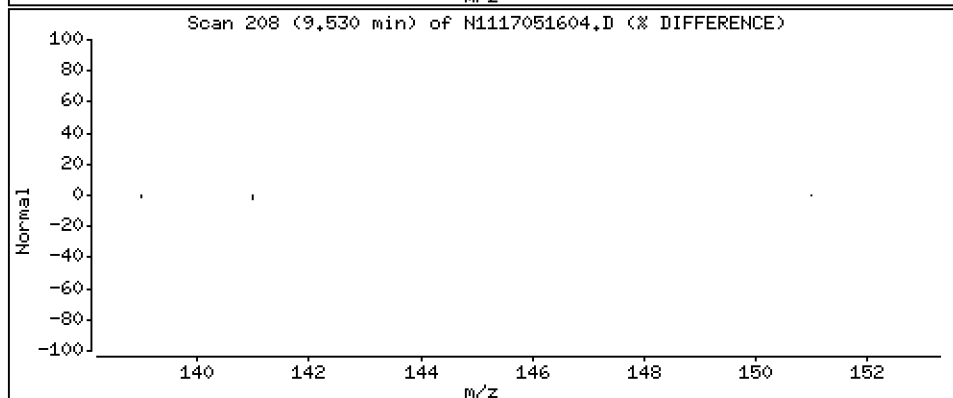
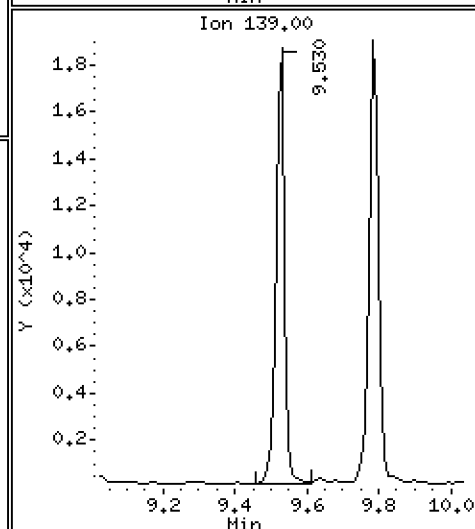
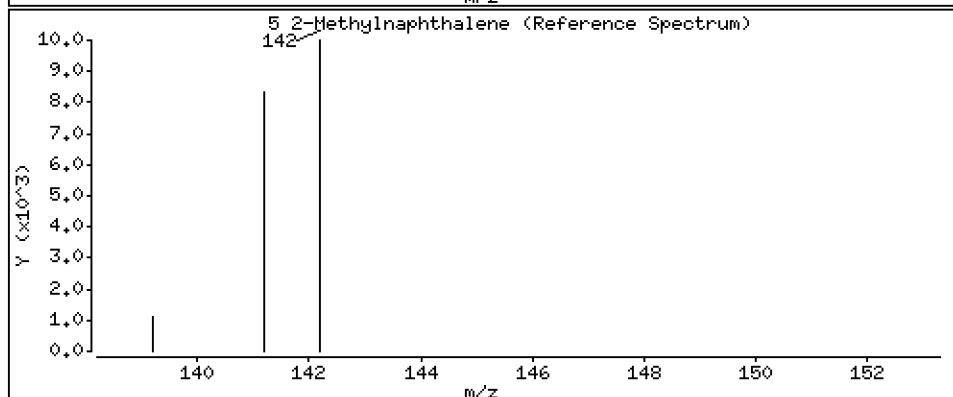
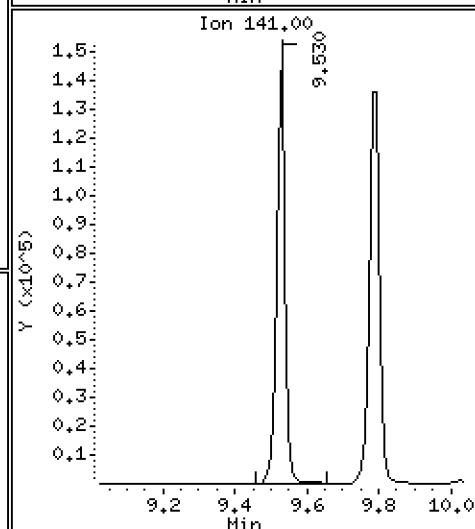
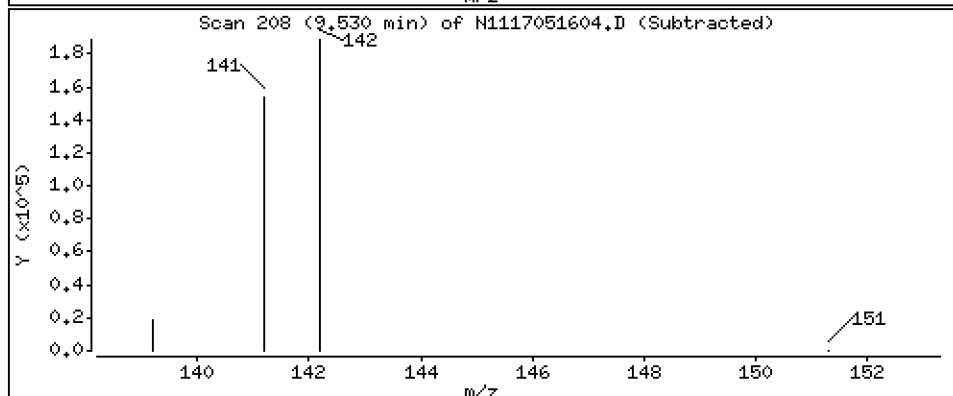
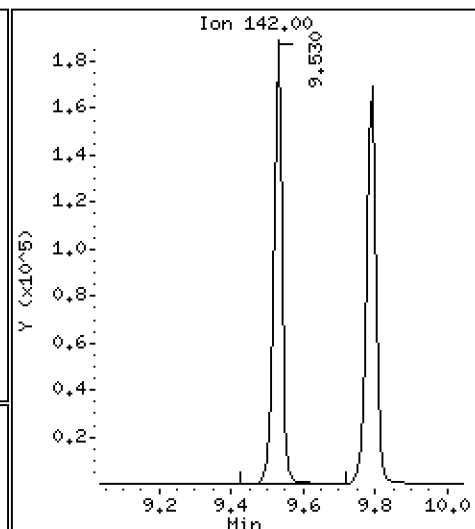
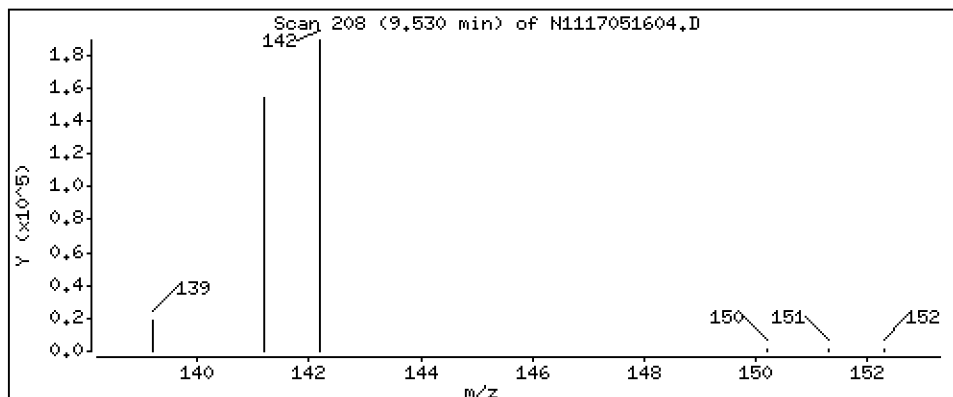
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

5-2-Methylnaphthalene

Concentration: 155 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

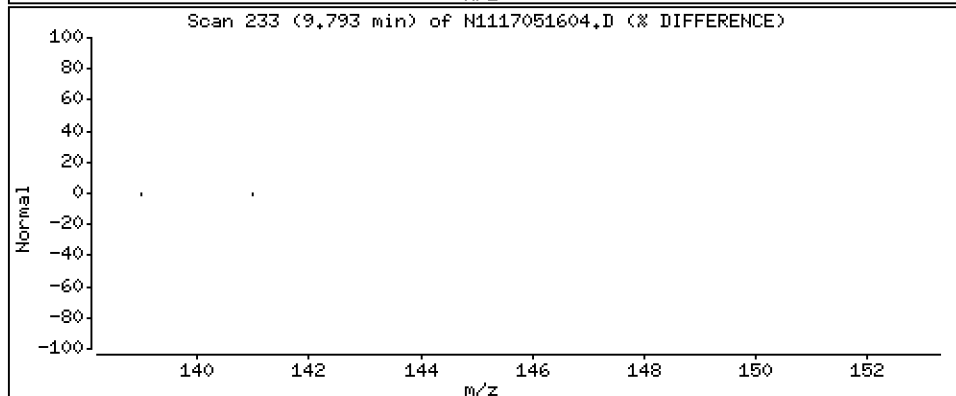
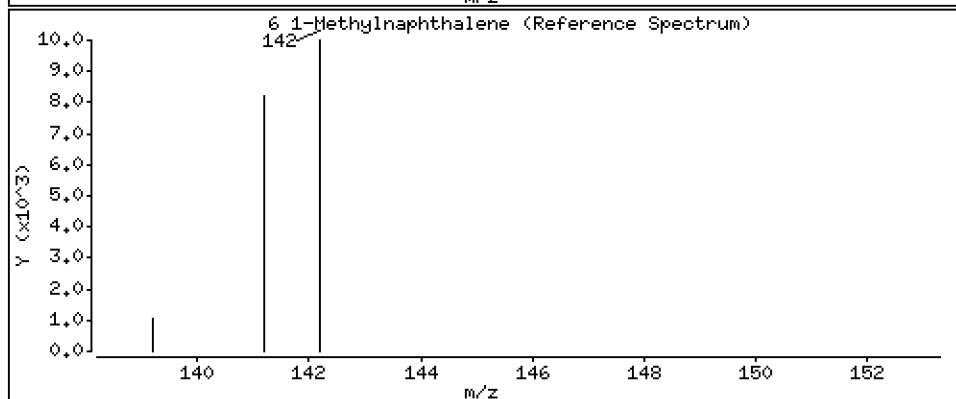
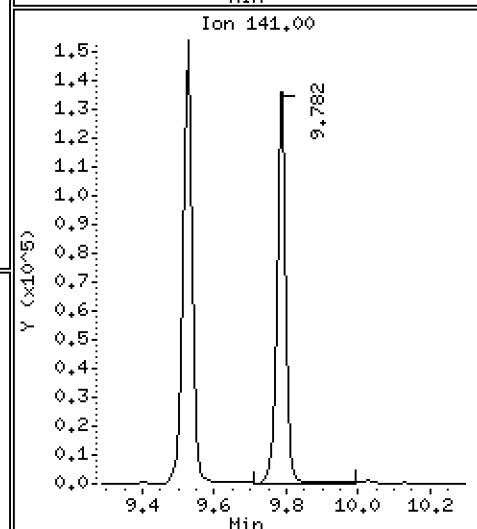
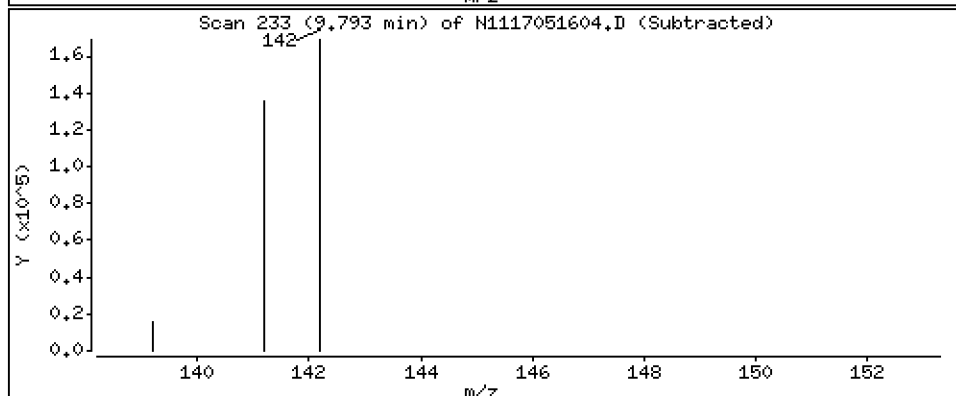
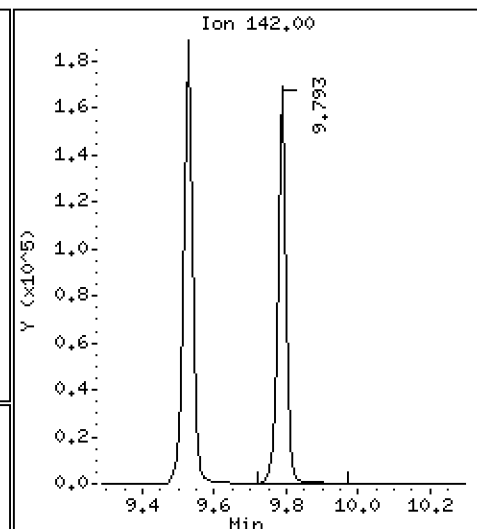
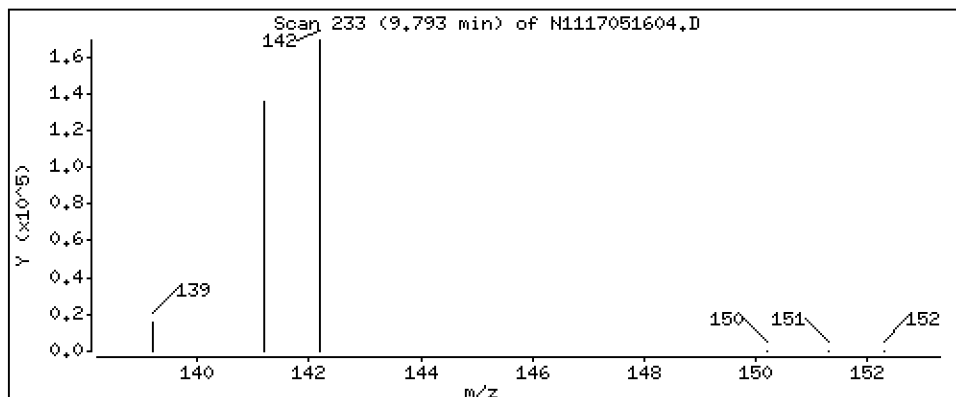
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

6 1-Methylnaphthalene

Concentration: 154 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

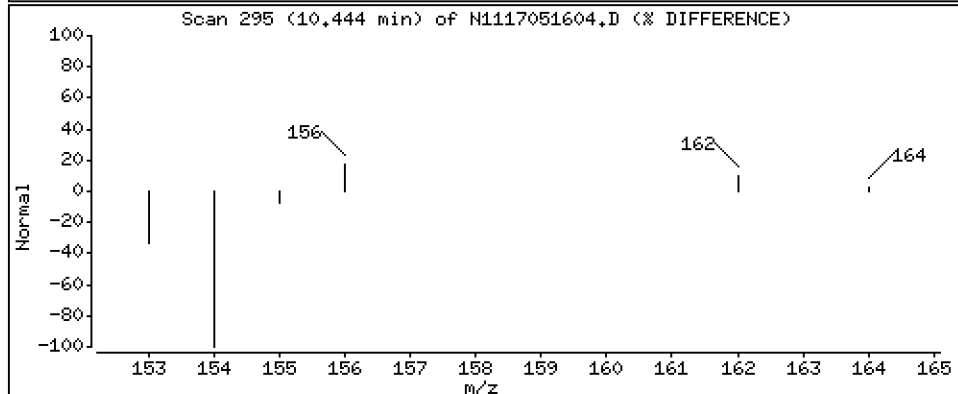
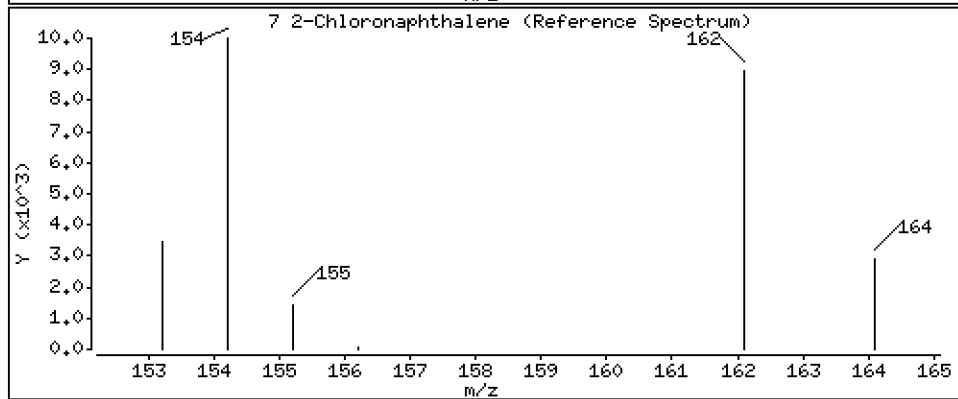
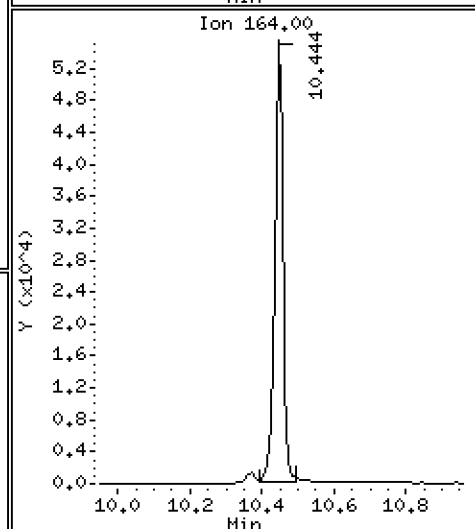
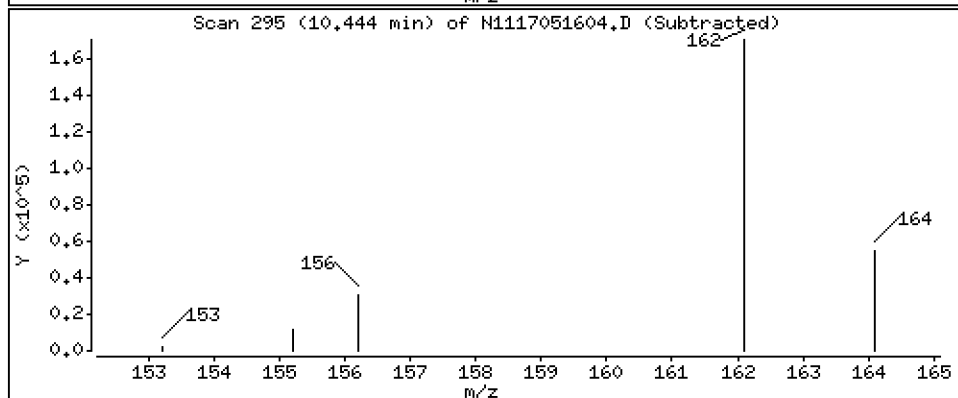
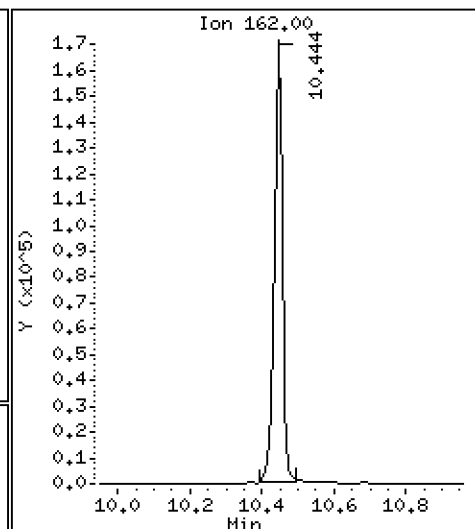
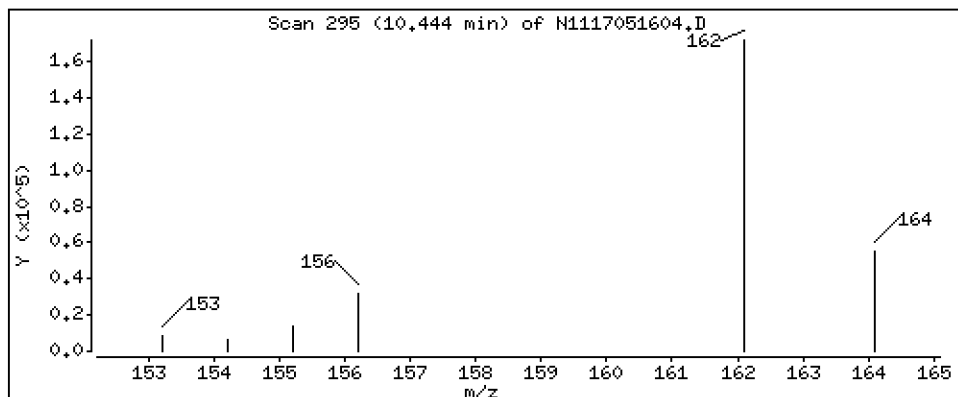
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 2-Chloronaphthalene

Concentration: 162 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

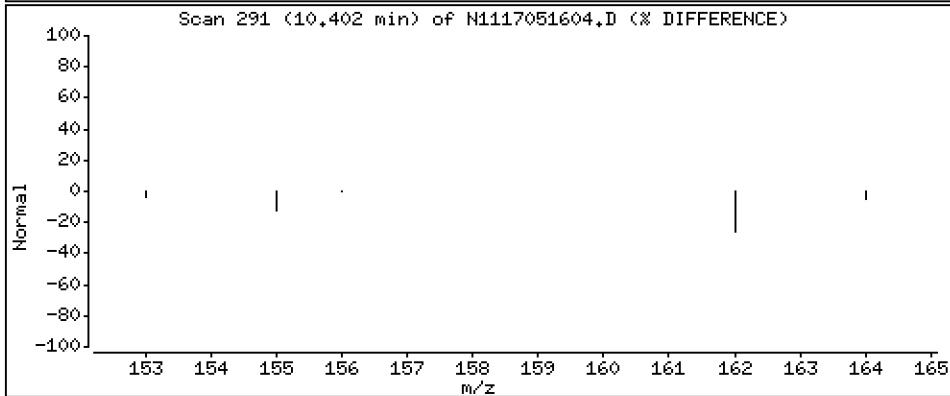
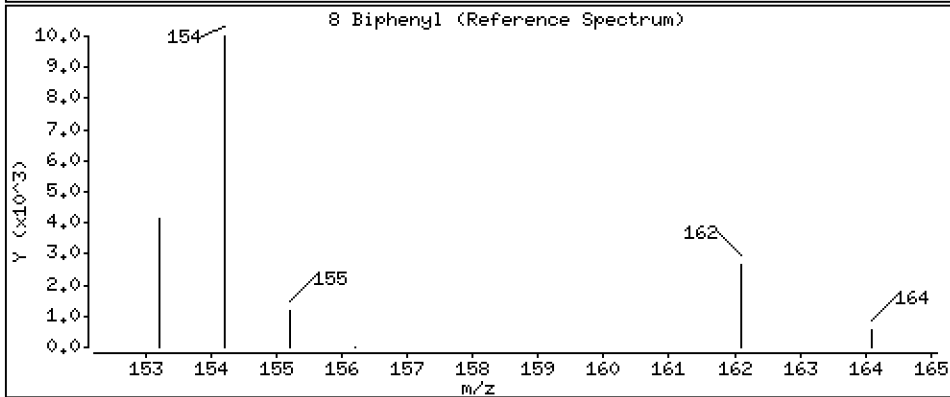
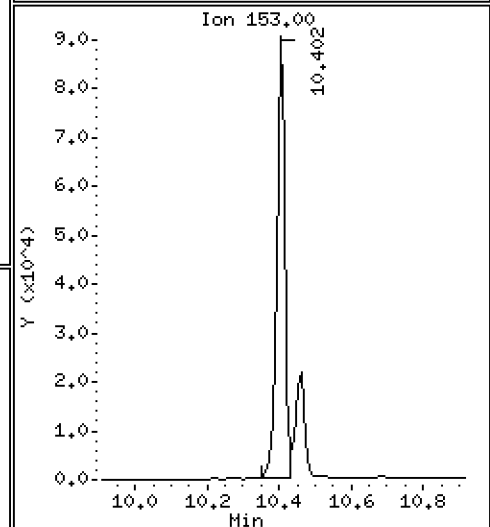
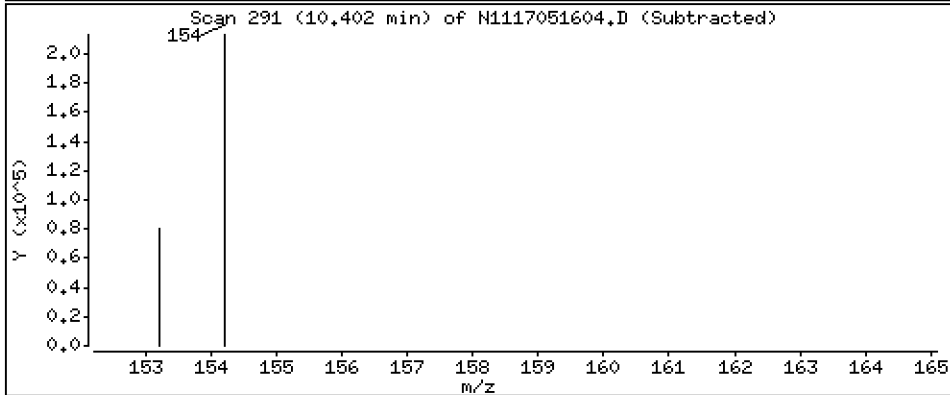
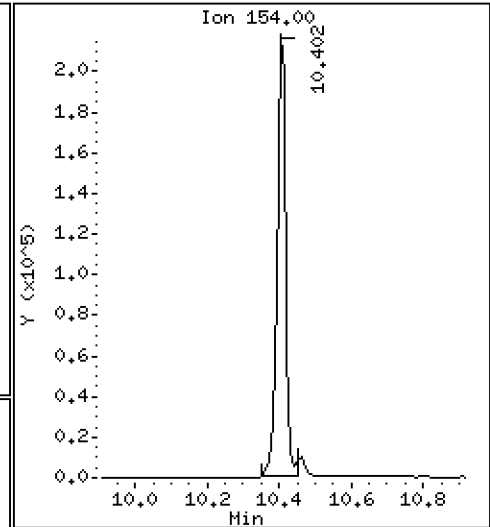
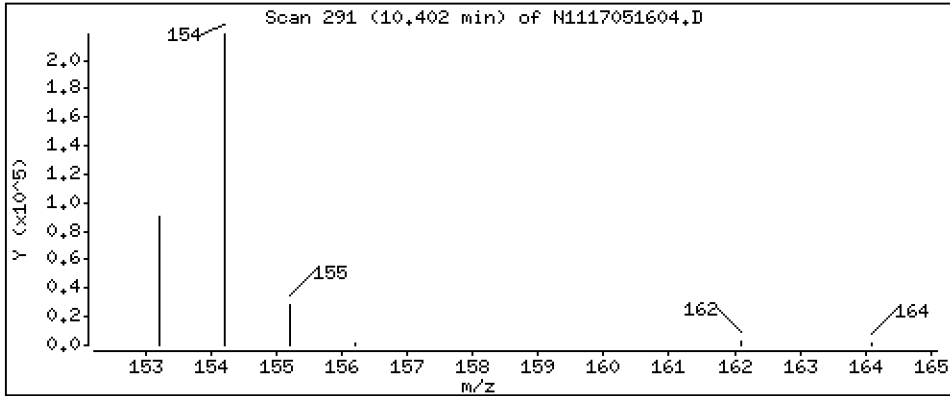
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

8 Biphenyl

Concentration: 151 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

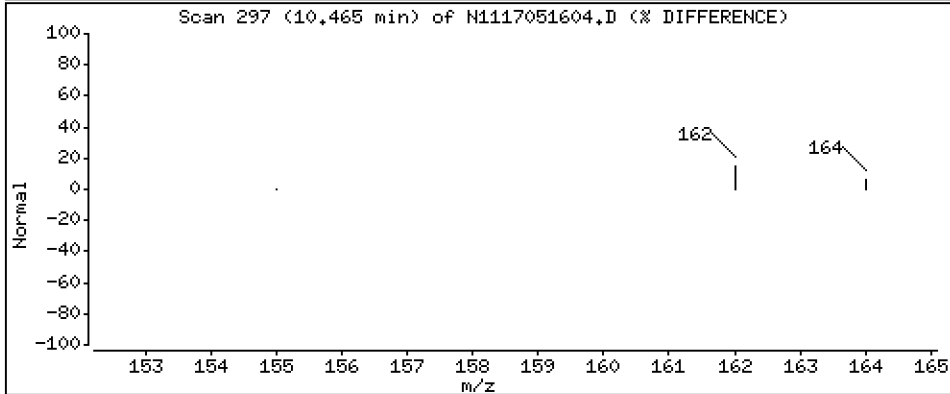
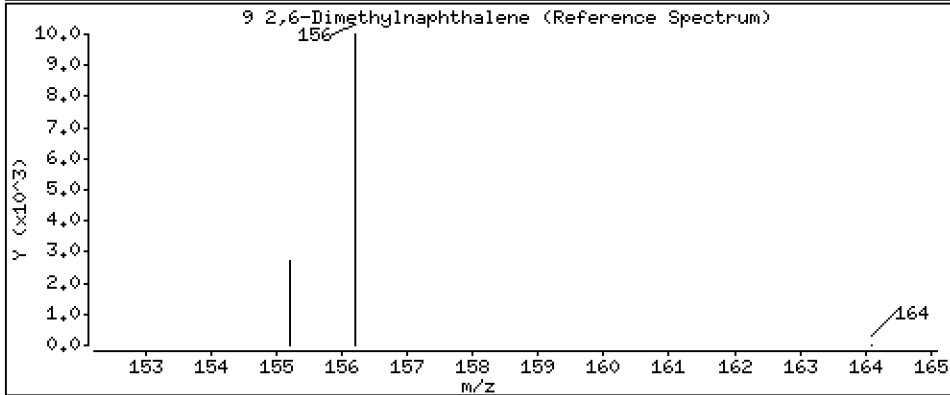
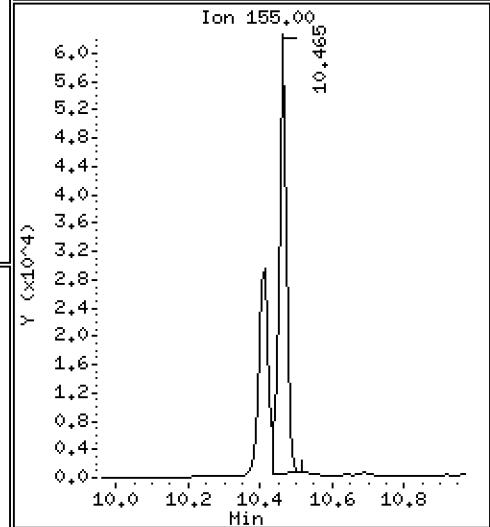
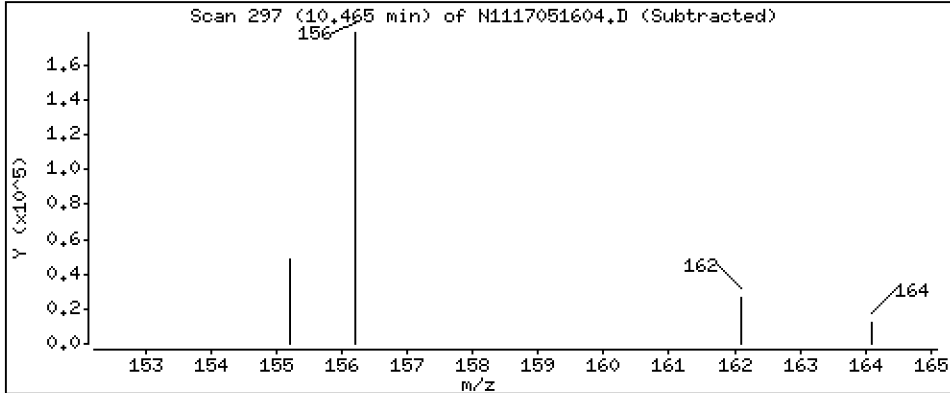
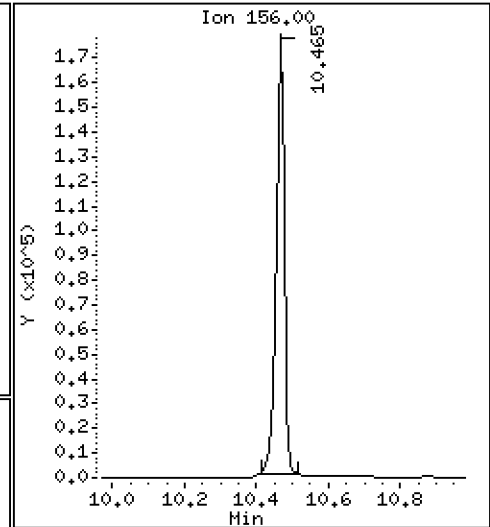
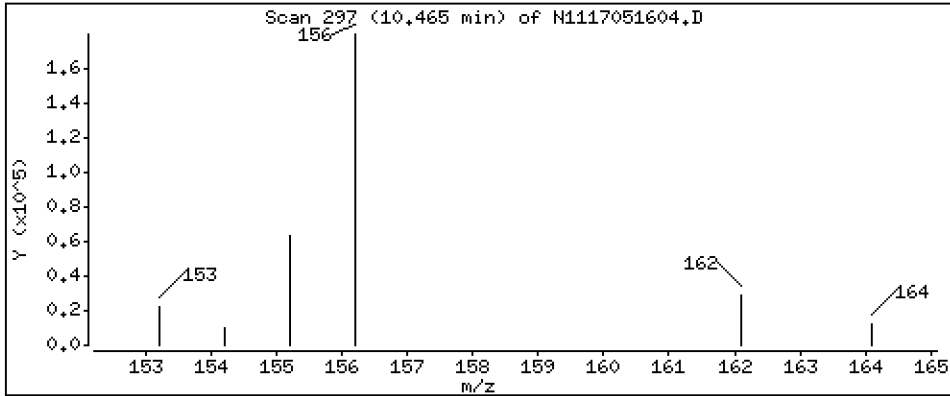
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

9,2,6-Dimethylnaphthalene

Concentration: 161 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

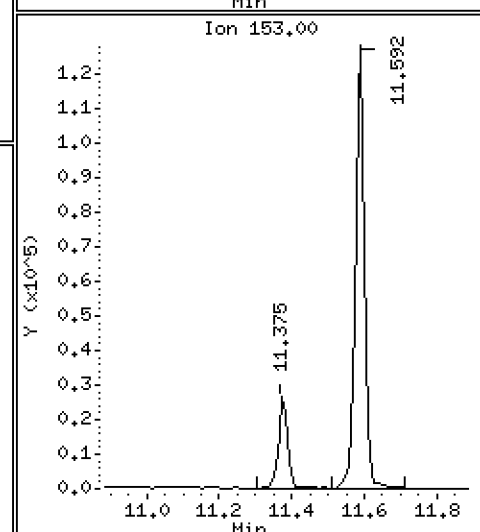
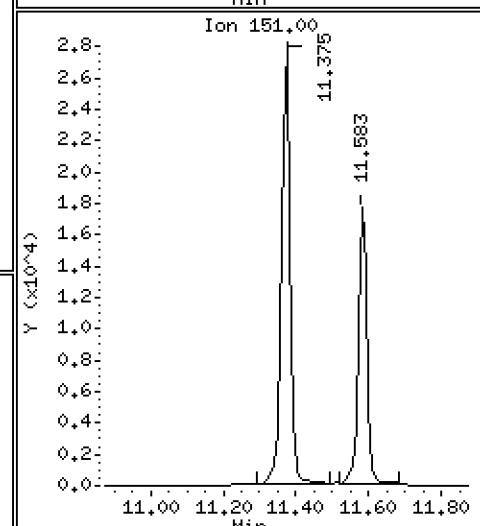
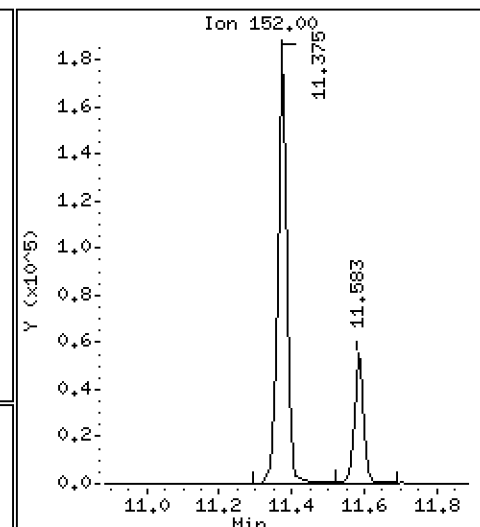
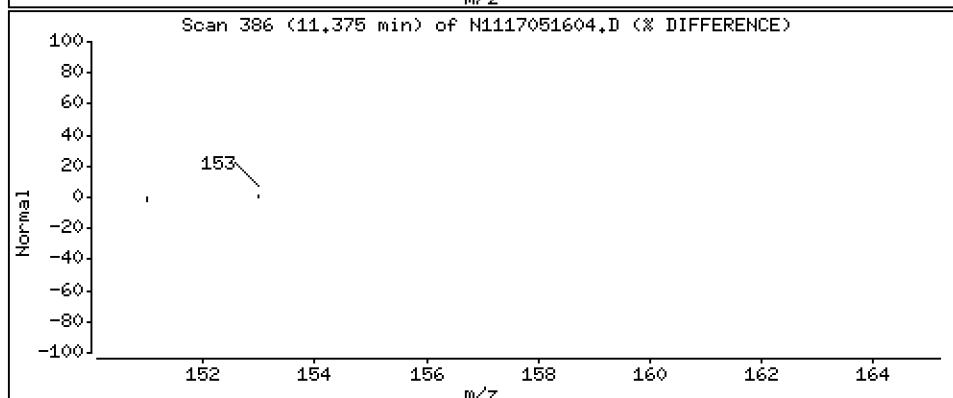
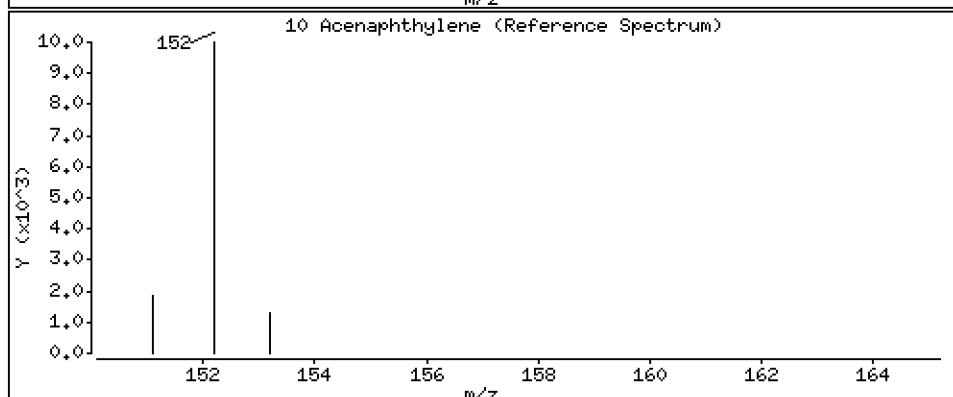
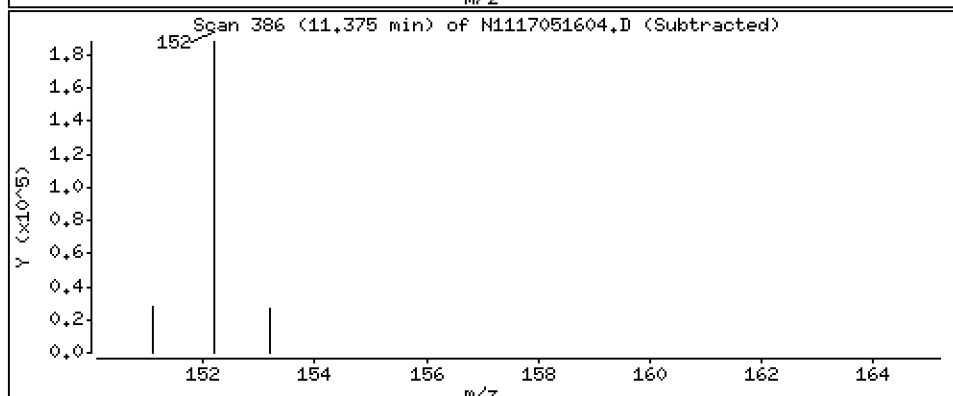
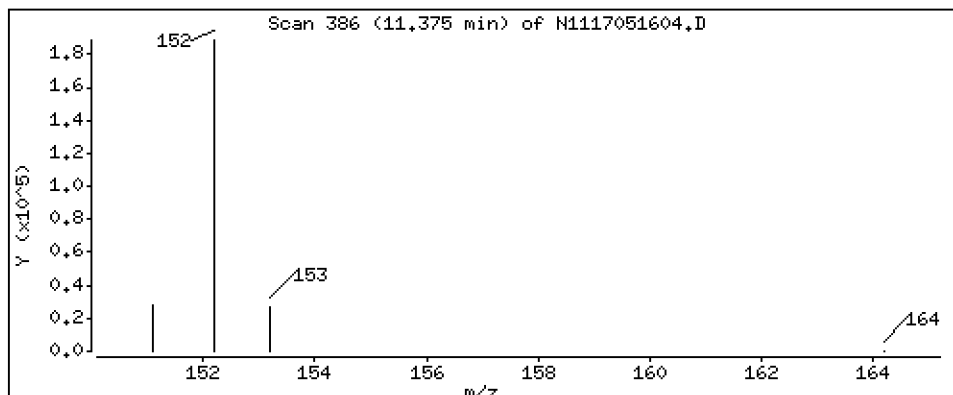
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

10 Acenaphthylene

Concentration: 161 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

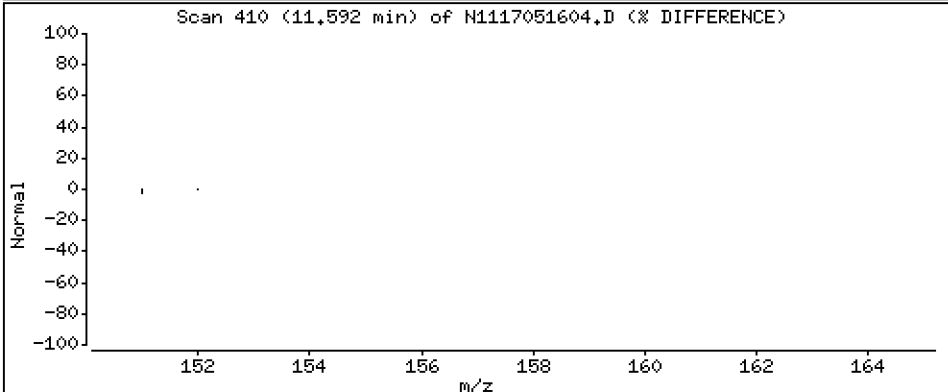
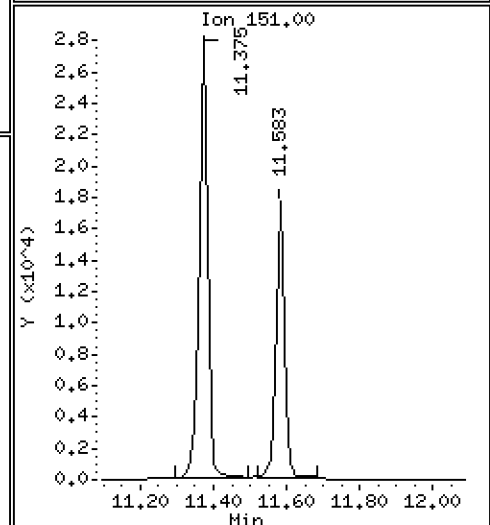
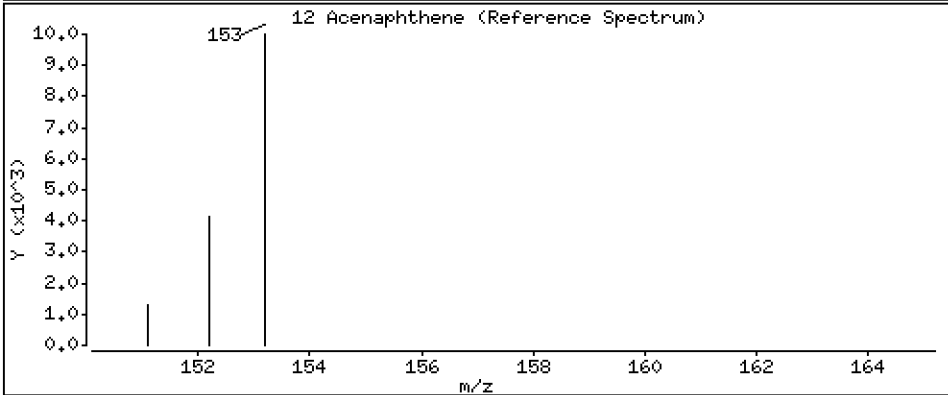
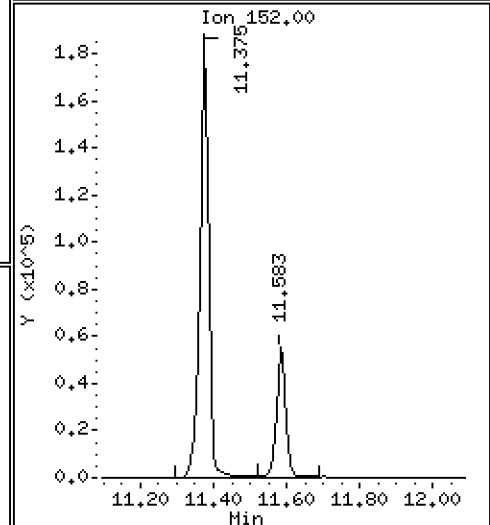
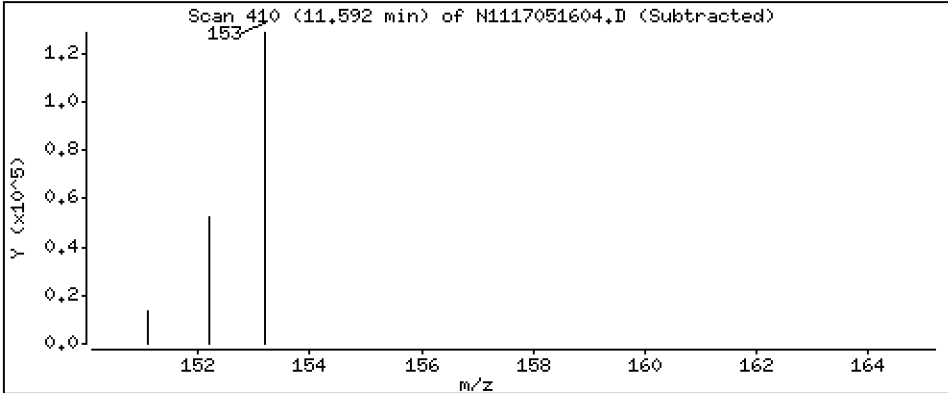
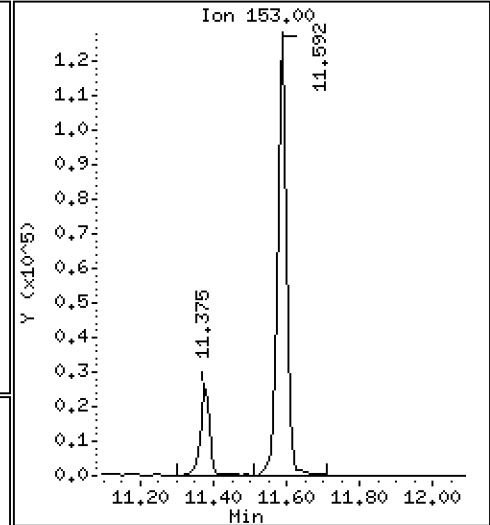
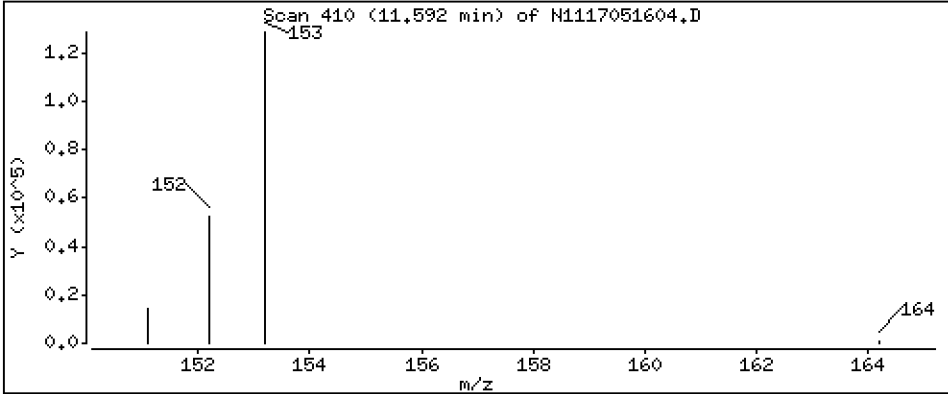
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Acenaphthene

Concentration: 175 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

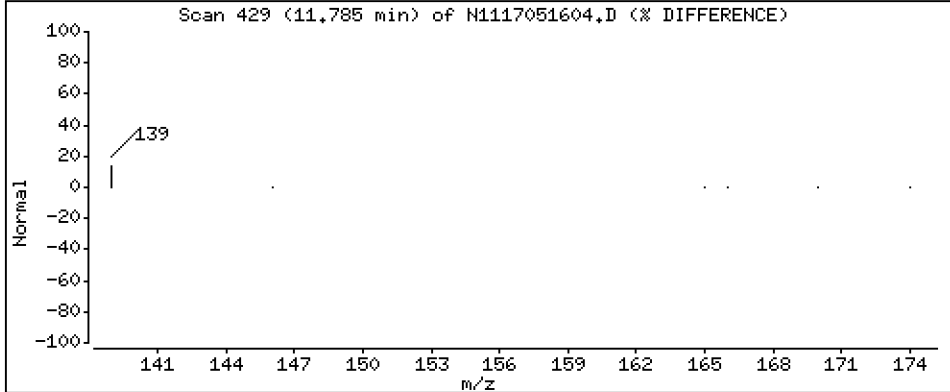
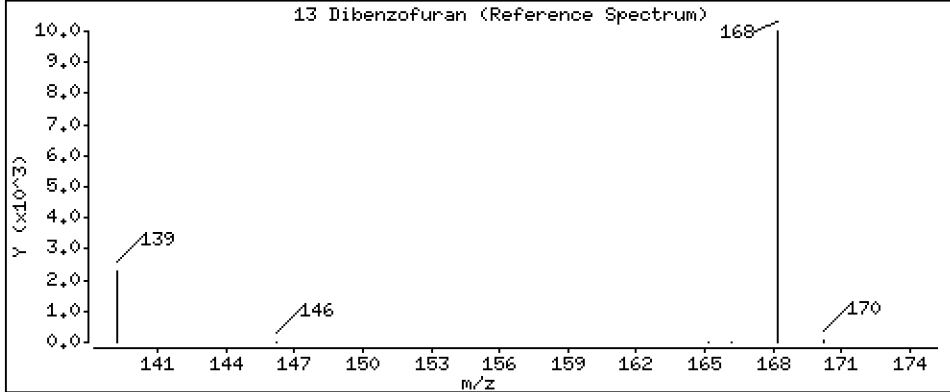
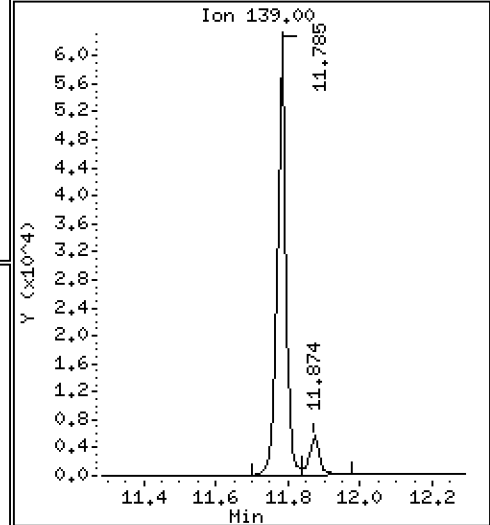
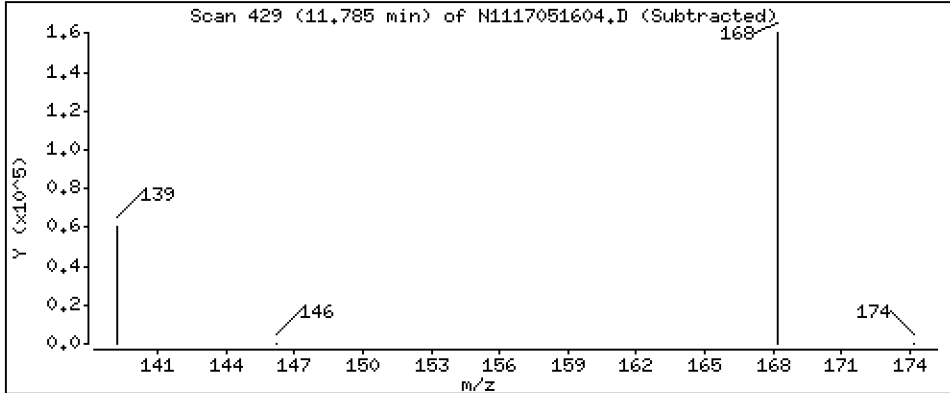
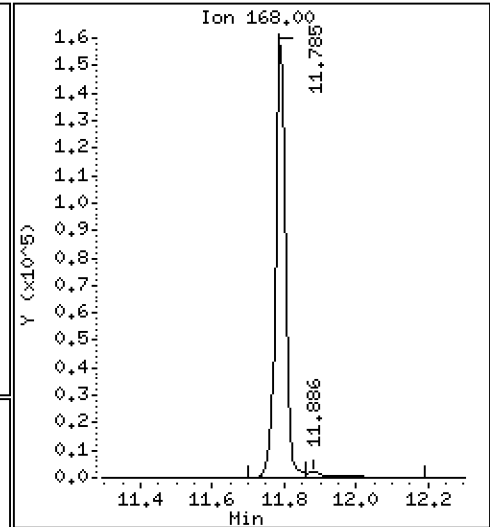
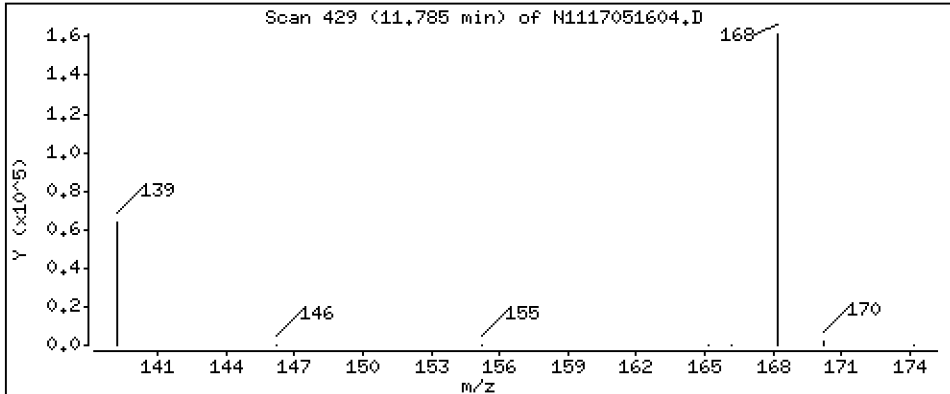
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

13 Dibenzofuran

Concentration: 175 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

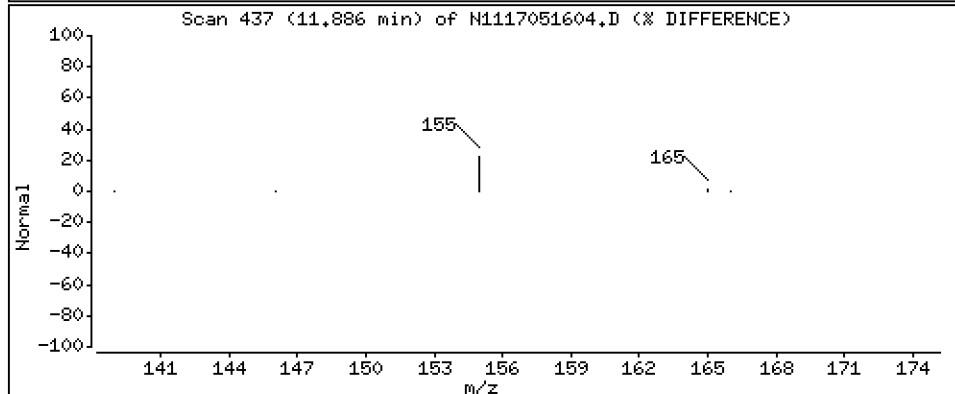
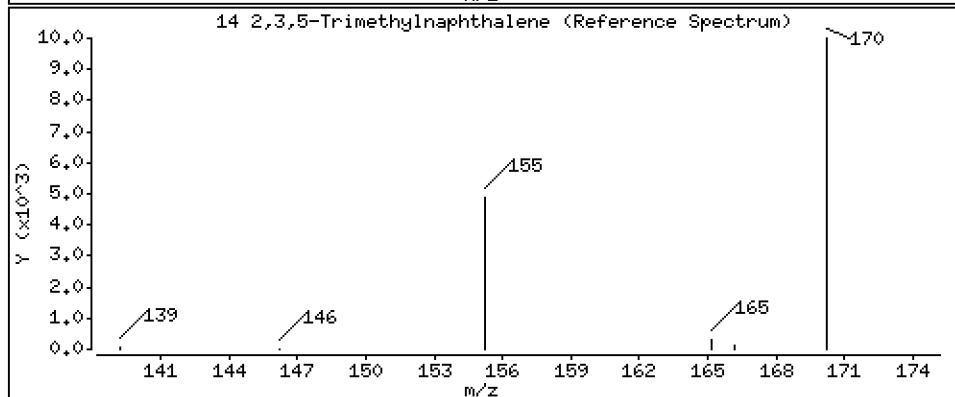
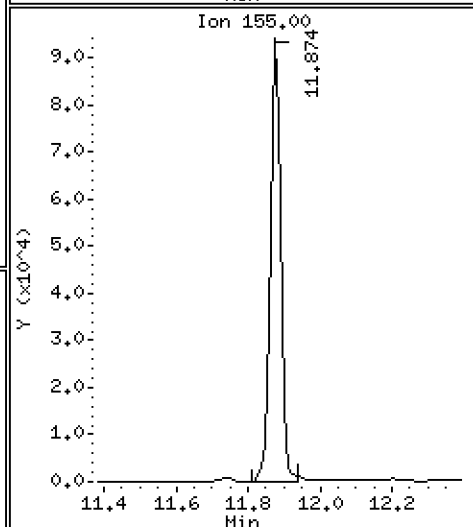
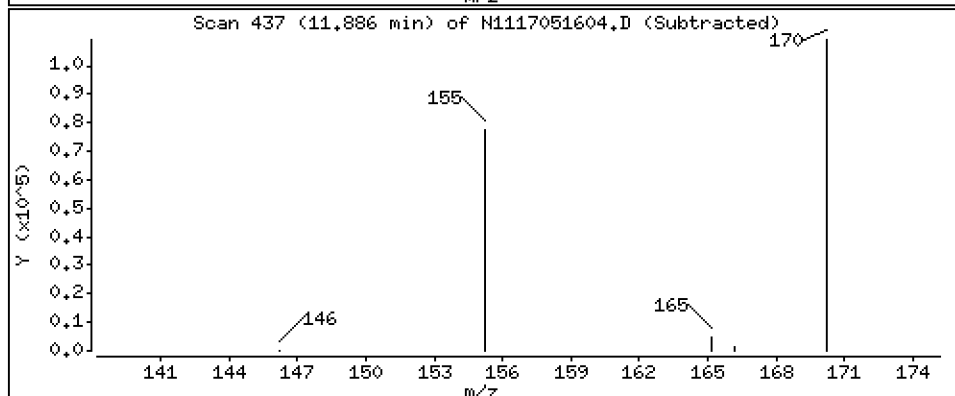
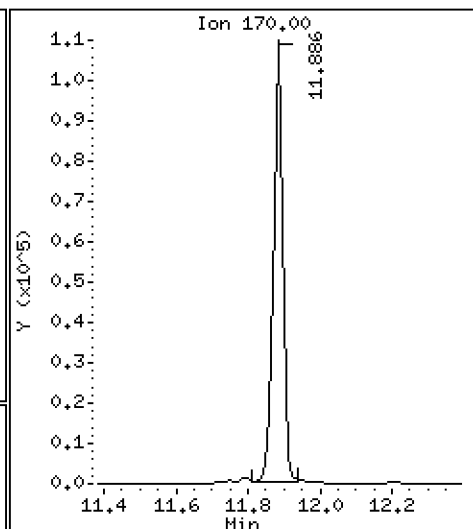
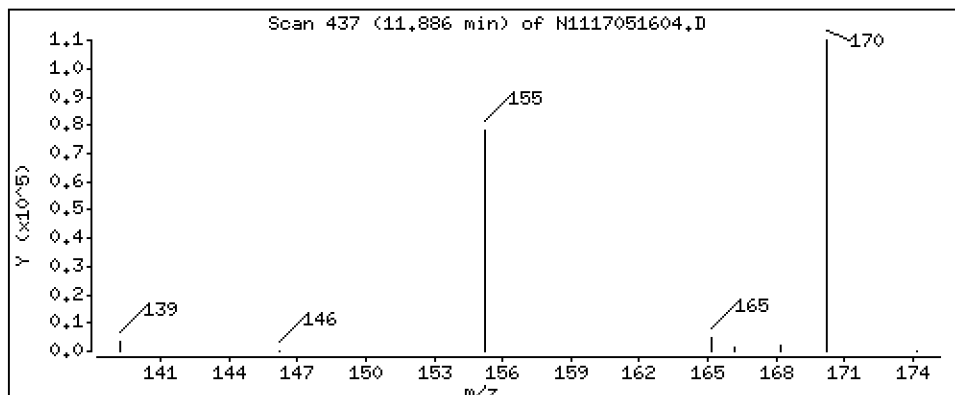
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

14 2,3,5-Trimethylnaphthalene

Concentration: 186 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

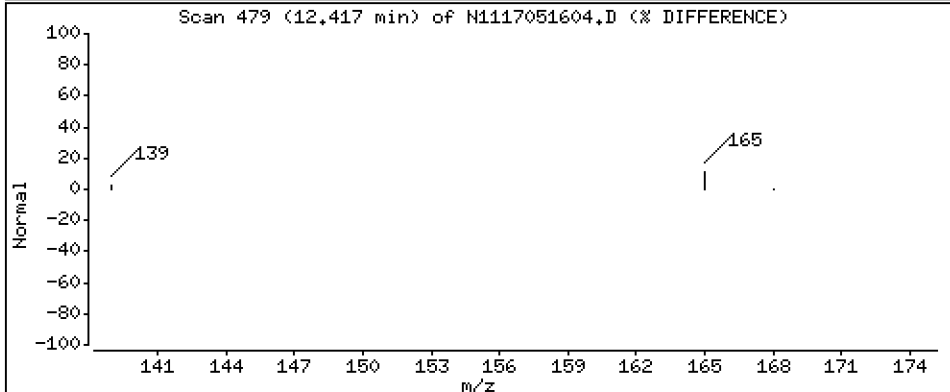
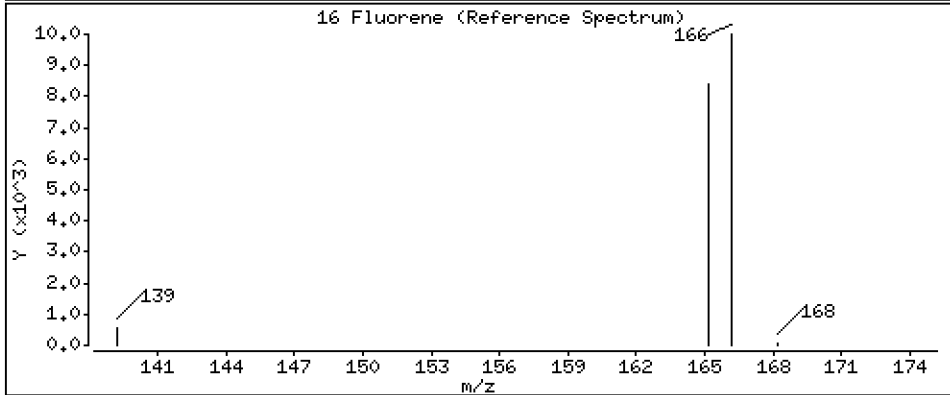
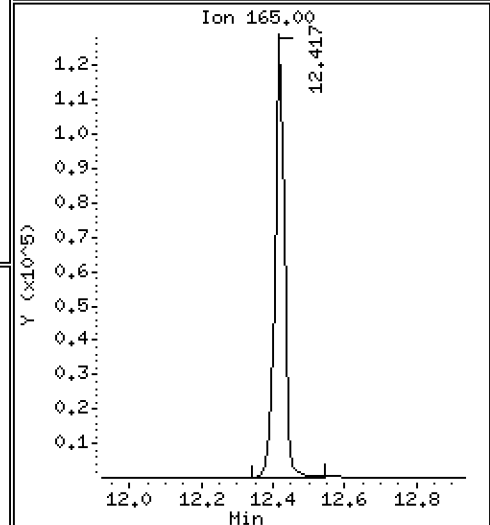
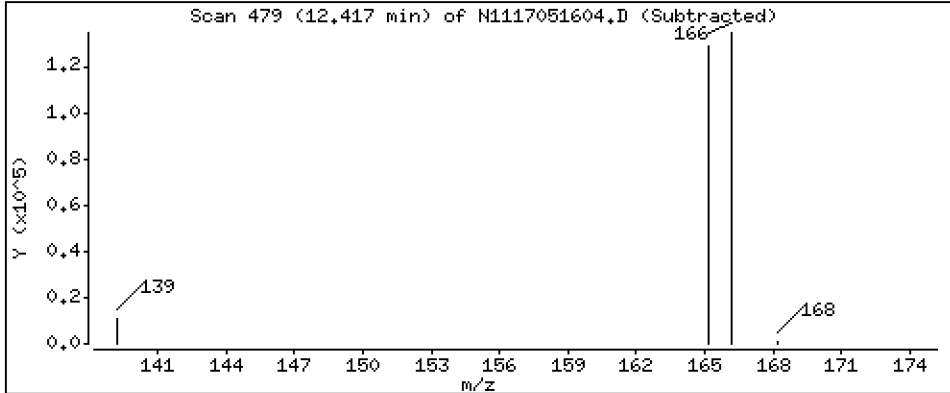
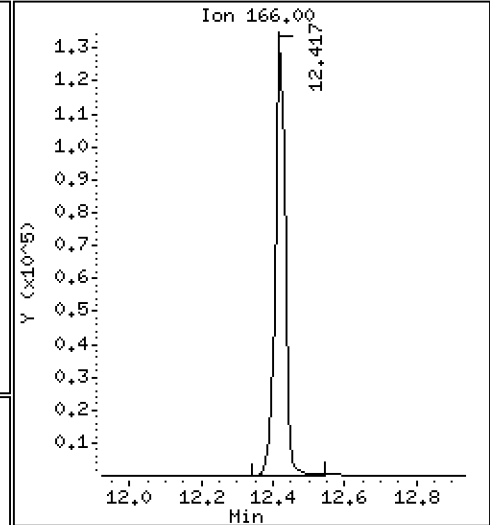
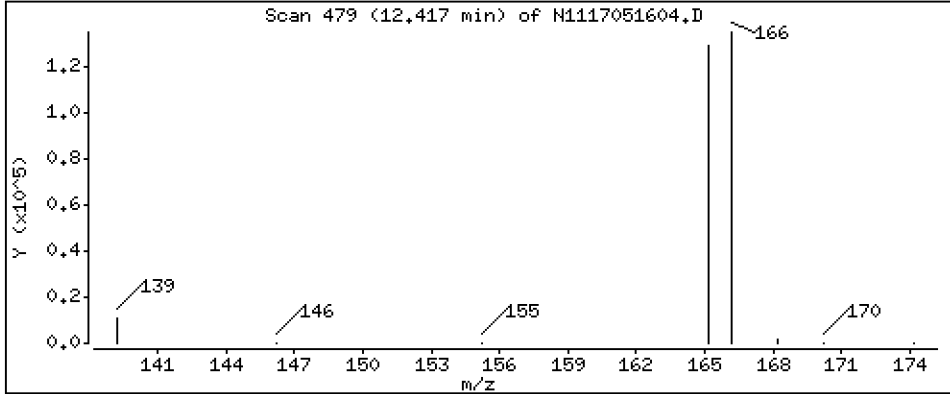
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 Fluorene

Concentration: 178 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

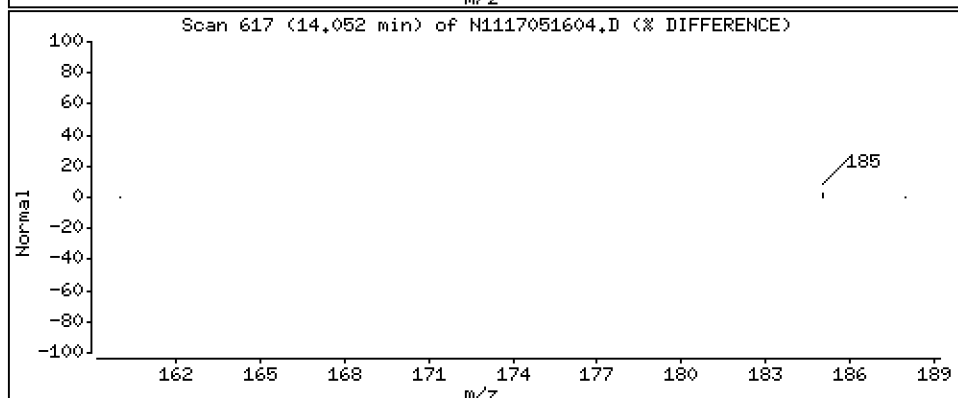
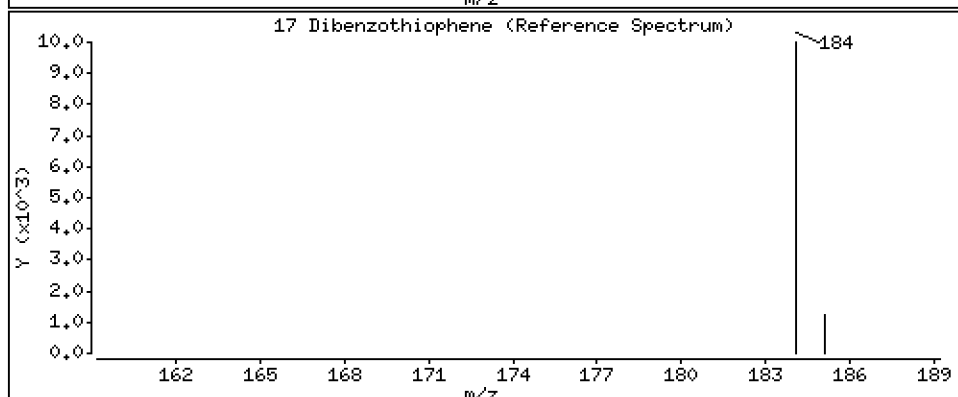
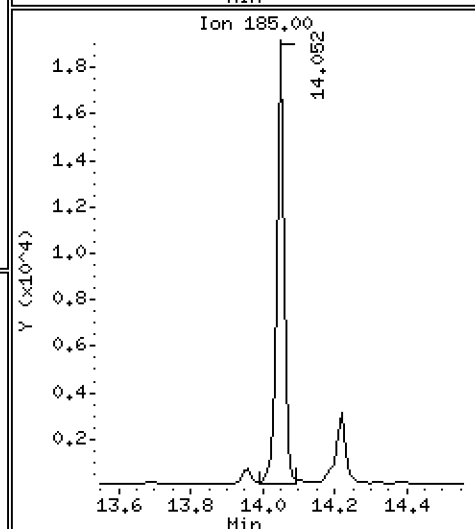
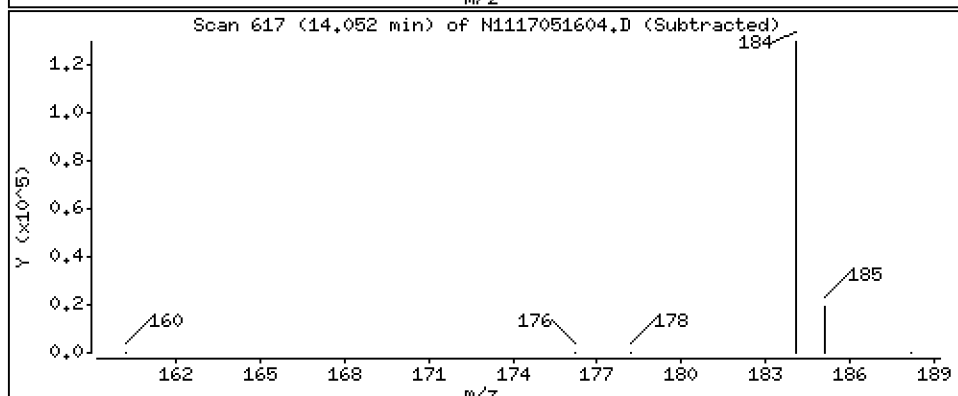
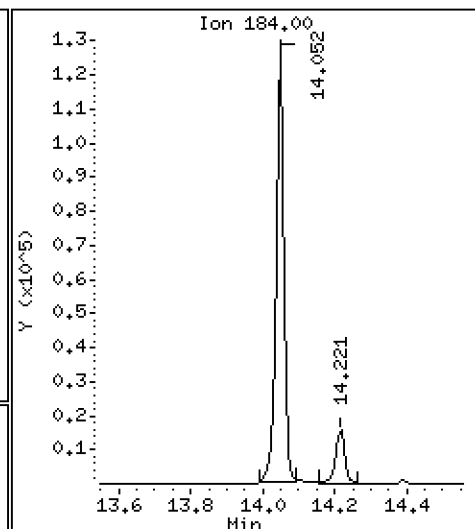
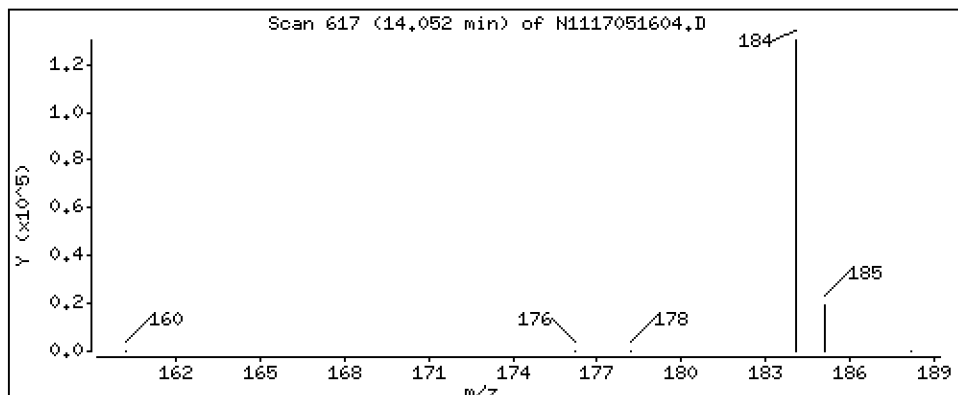
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 Dibenzothiophene

Concentration: 160 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

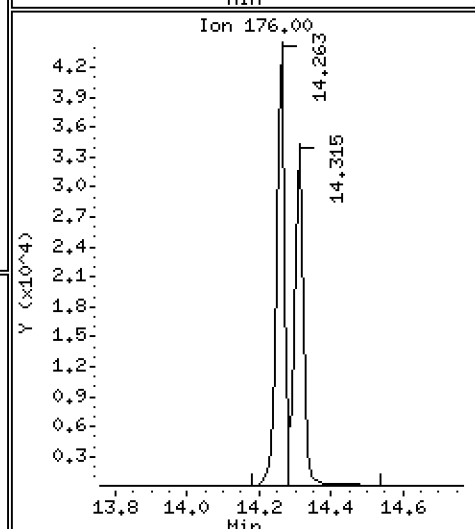
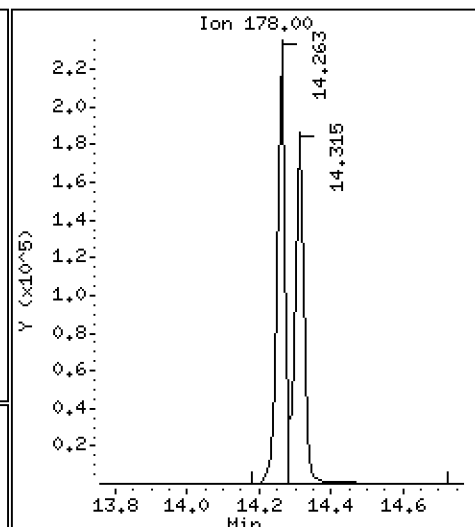
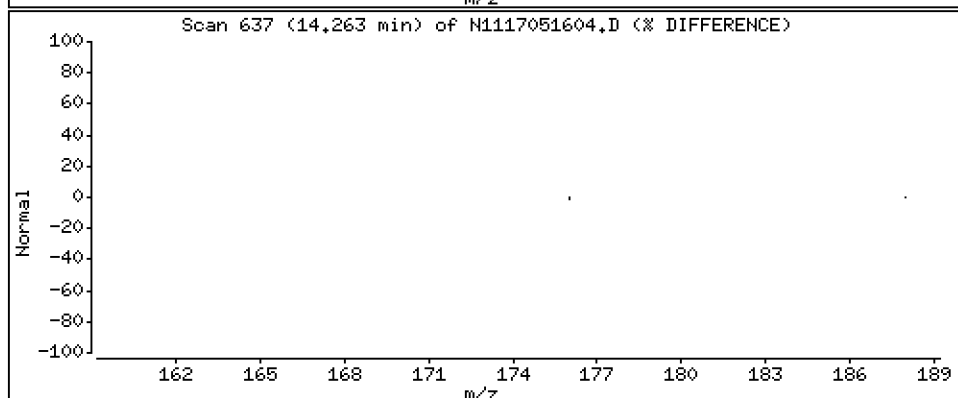
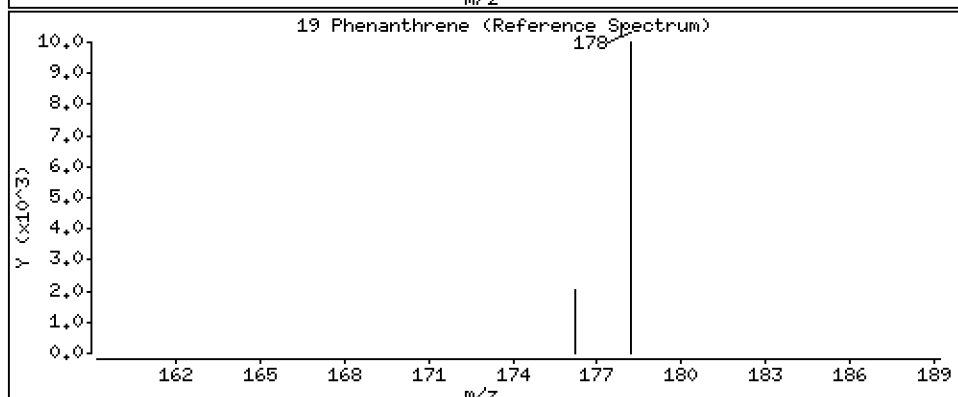
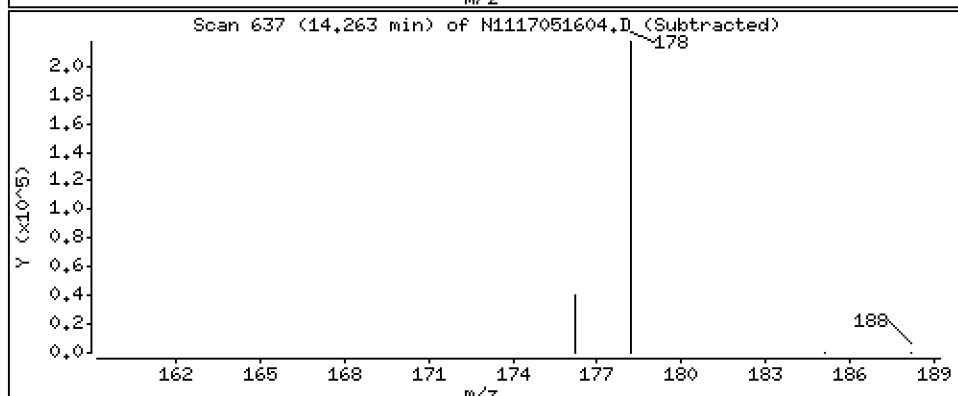
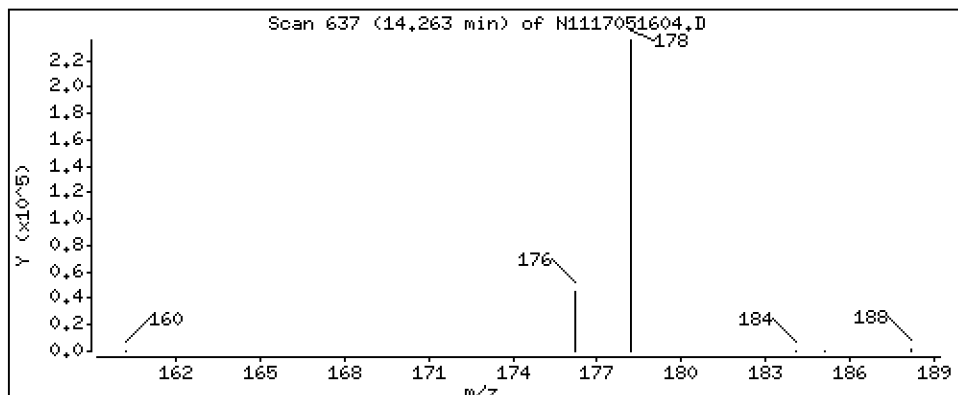
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 Phenanthrene

Concentration: 198 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

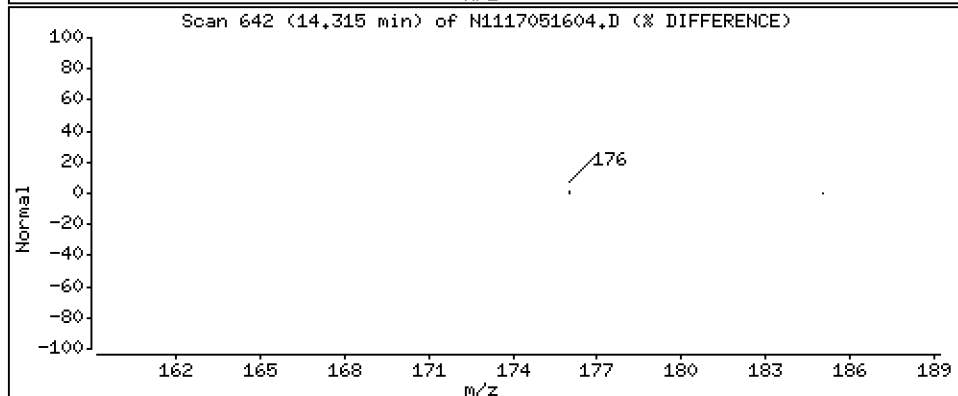
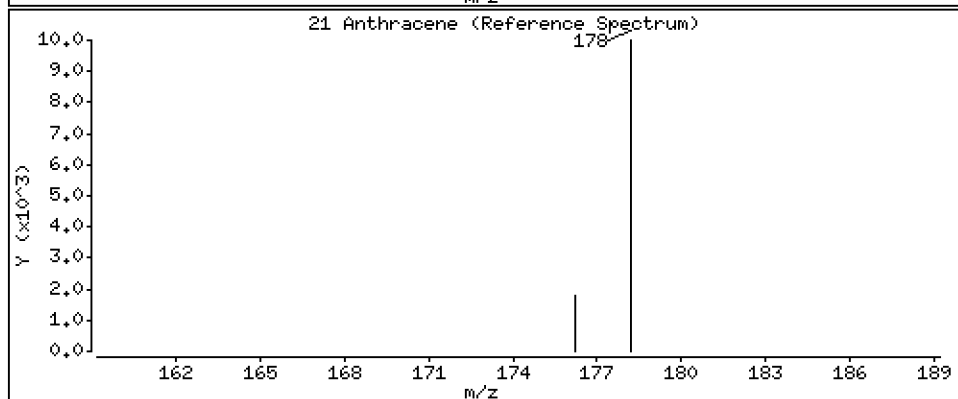
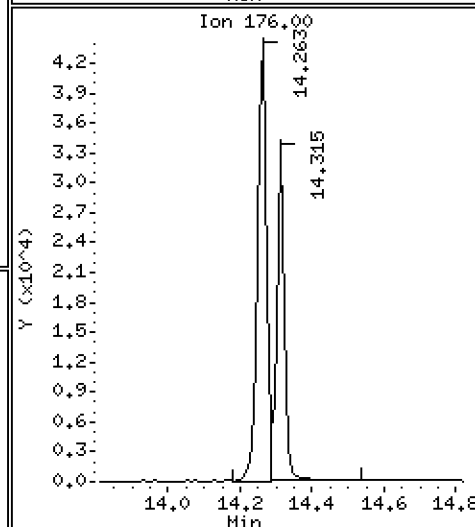
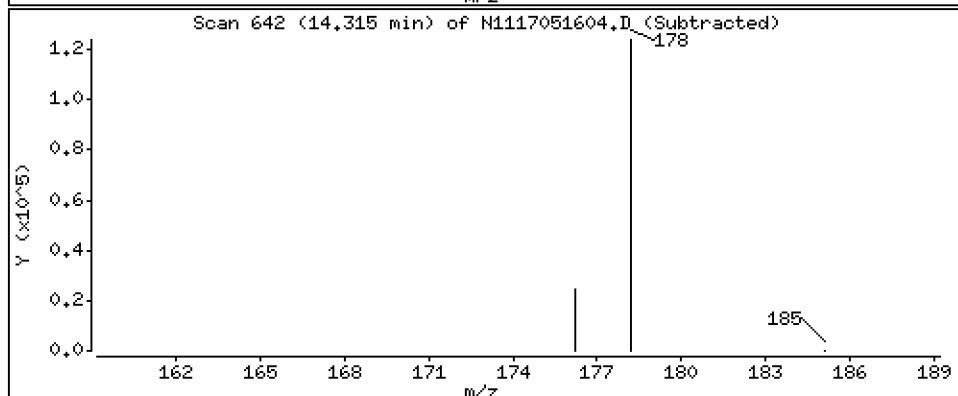
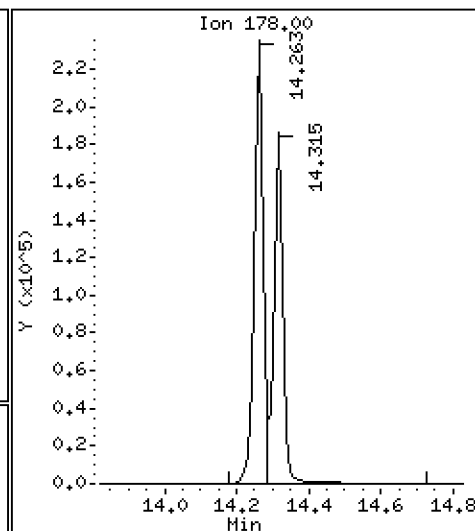
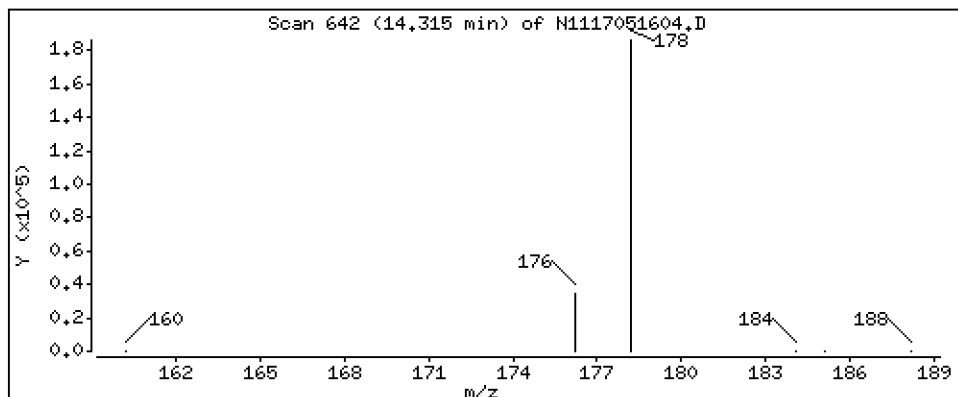
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

21 Anthracene

Concentration: 165 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

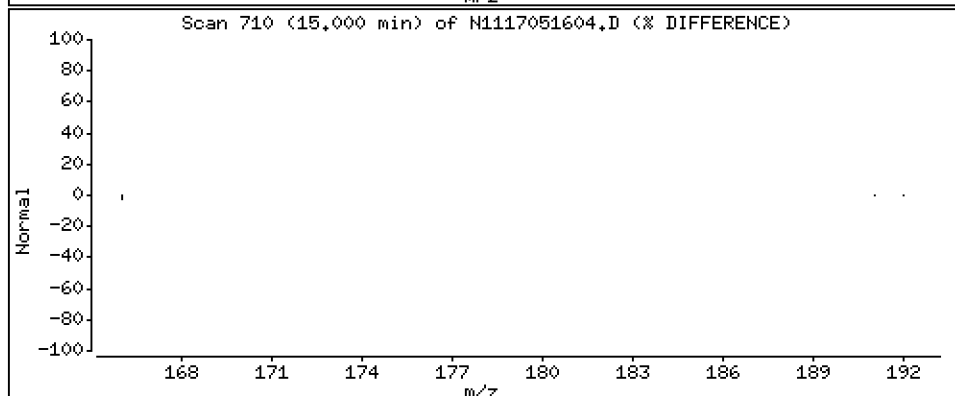
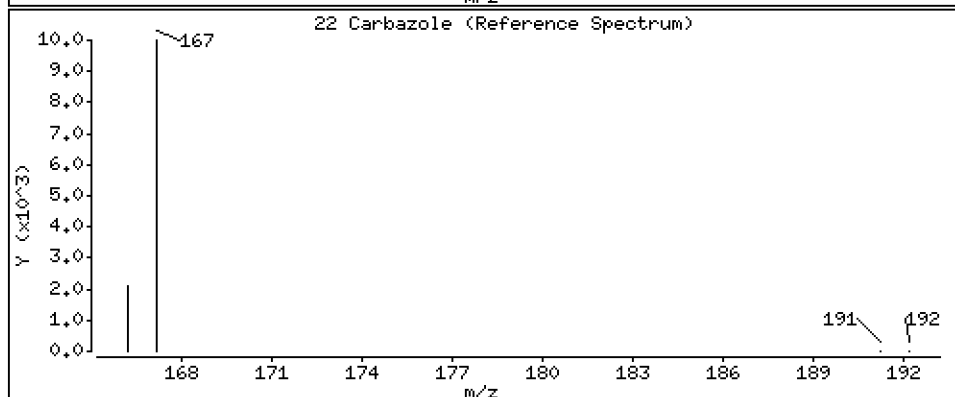
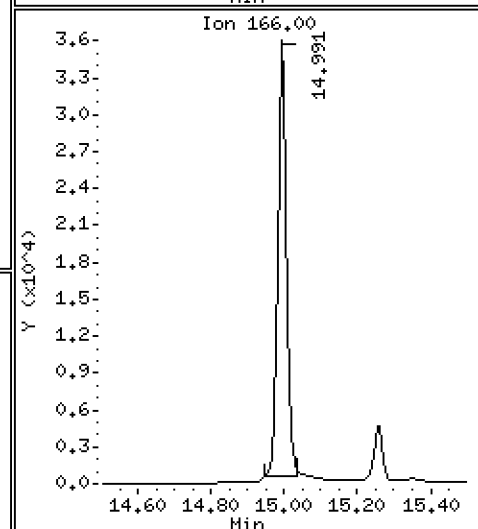
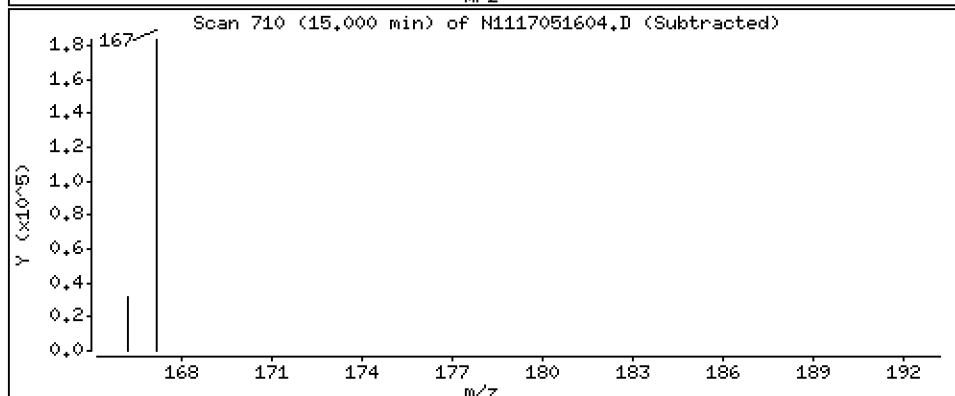
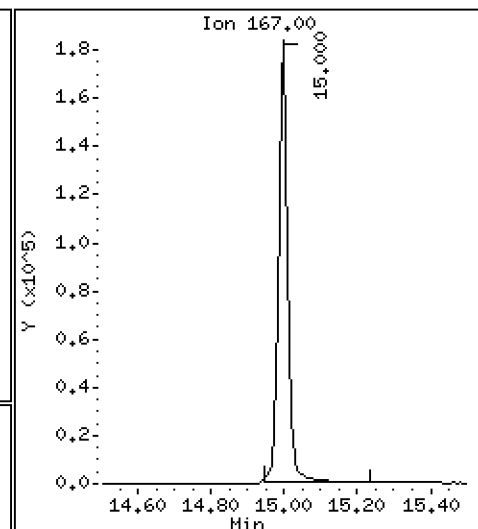
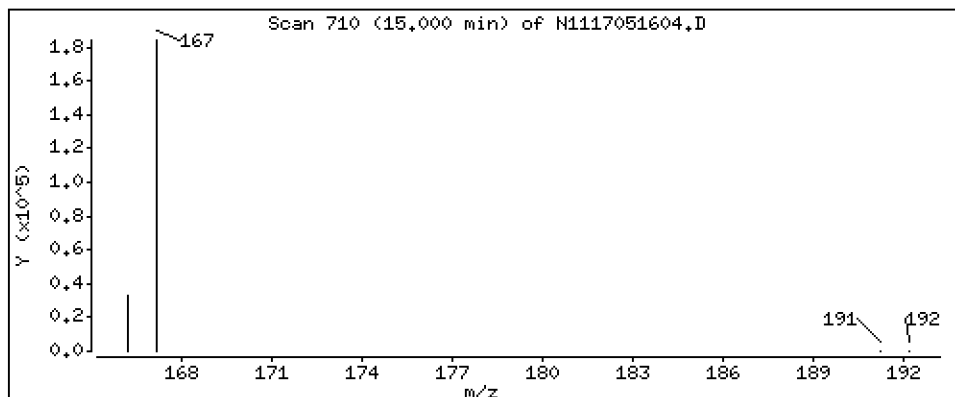
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Carbazole

Concentration: 142 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

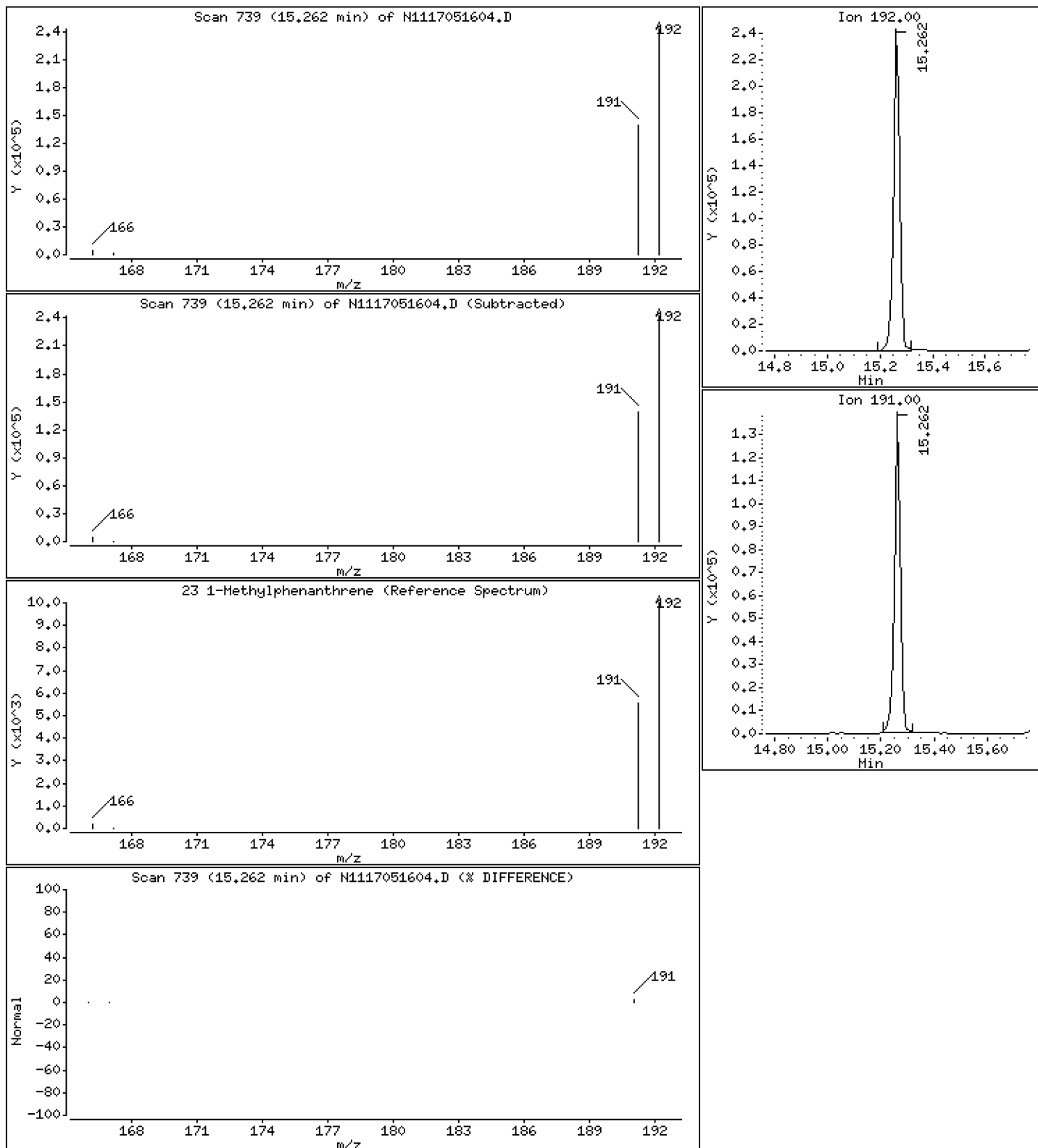
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

23 1-Methylphenanthrene

Concentration: 218 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

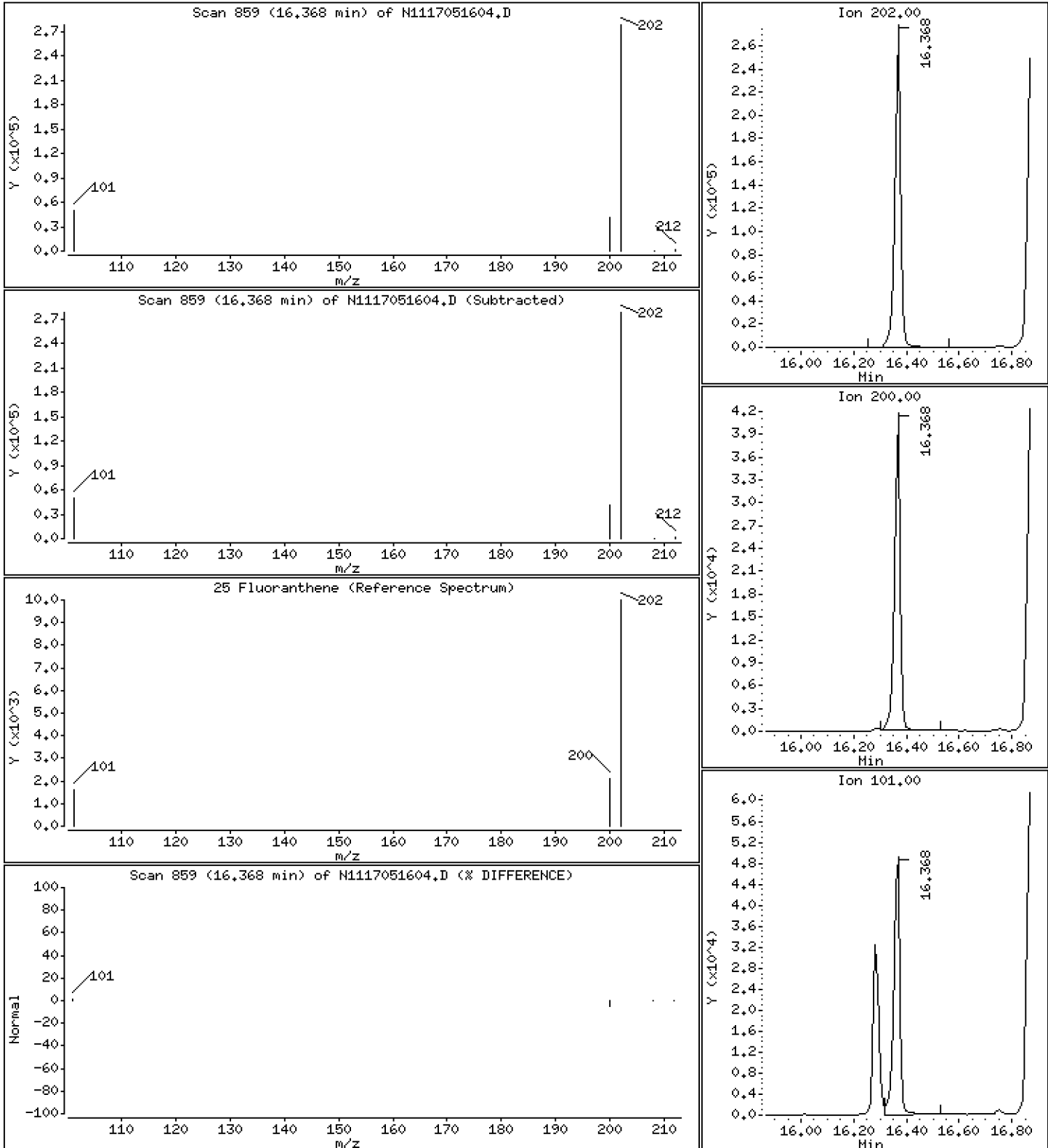
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

25 Fluoranthene

Concentration: 226 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

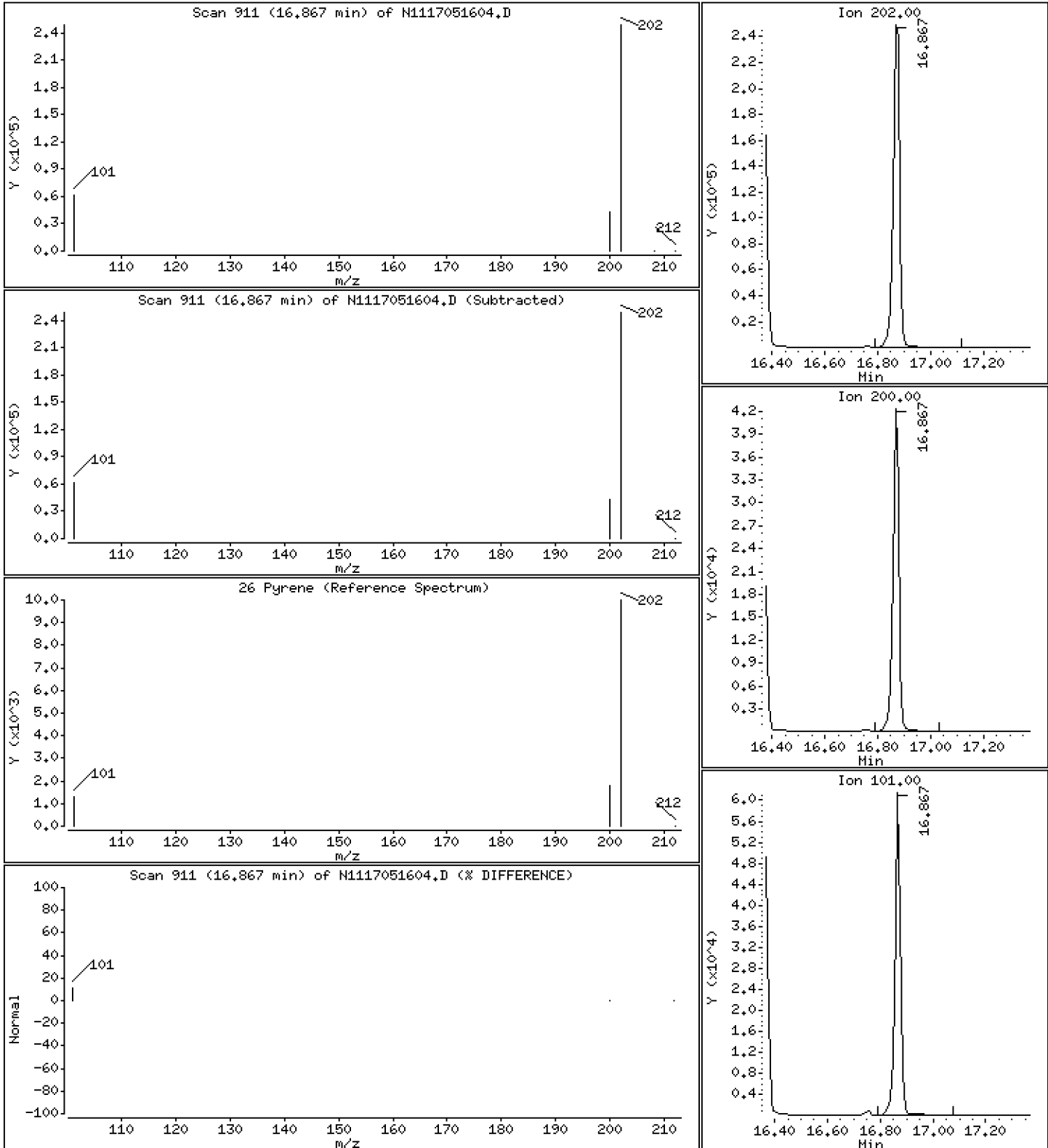
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Pyrene

Concentration: 266 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

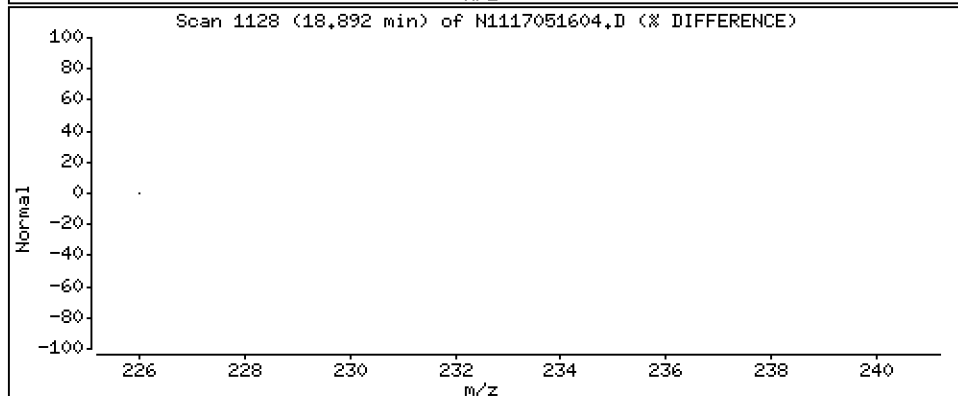
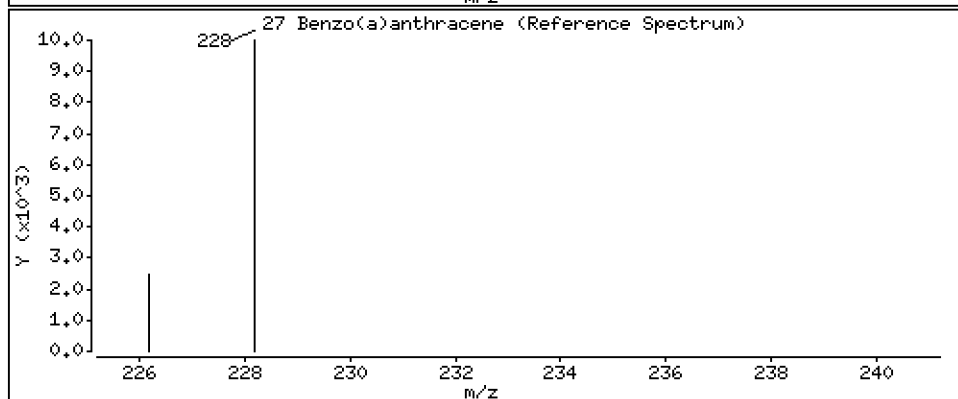
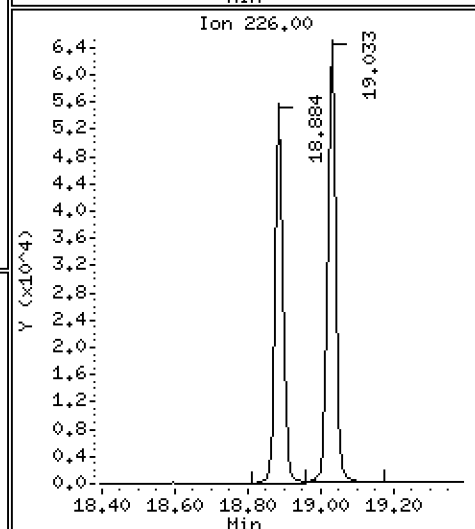
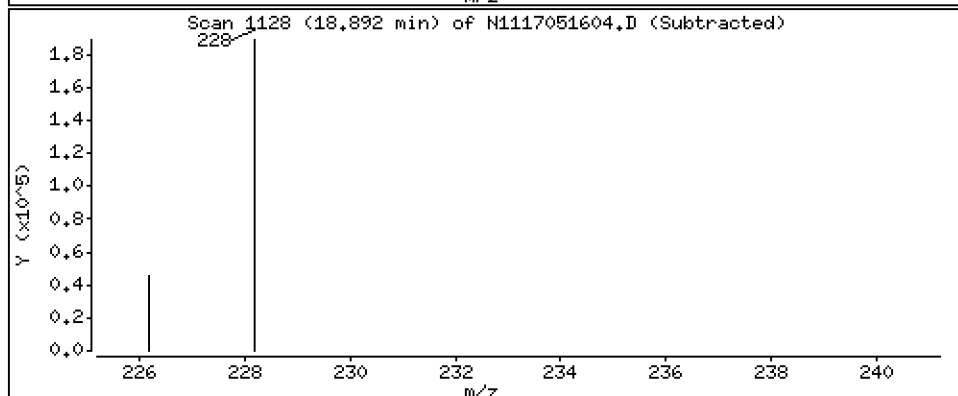
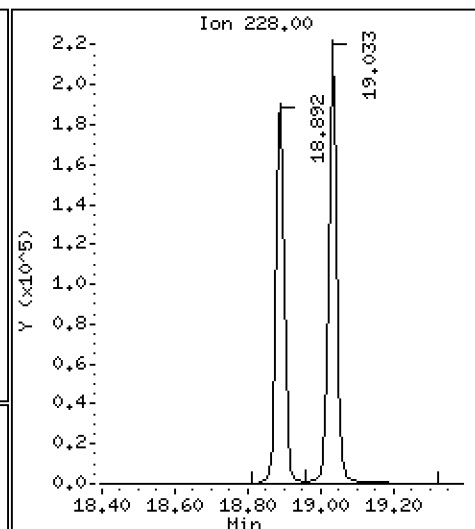
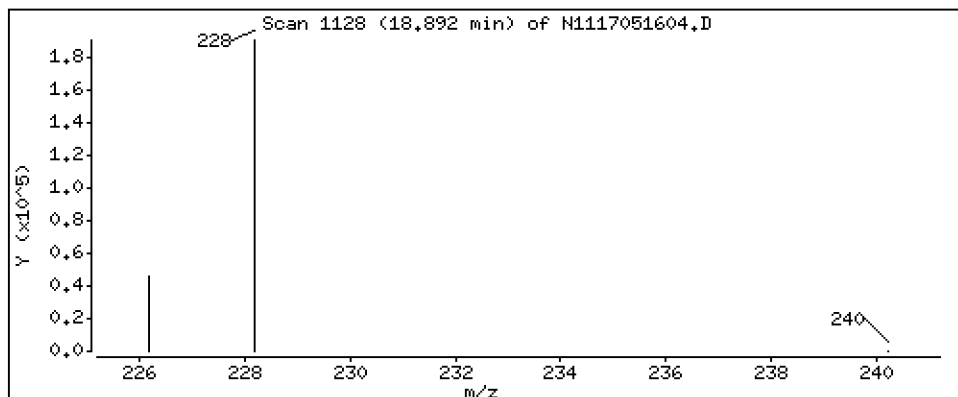
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

27 Benzo(a)anthracene

Concentration: 246 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

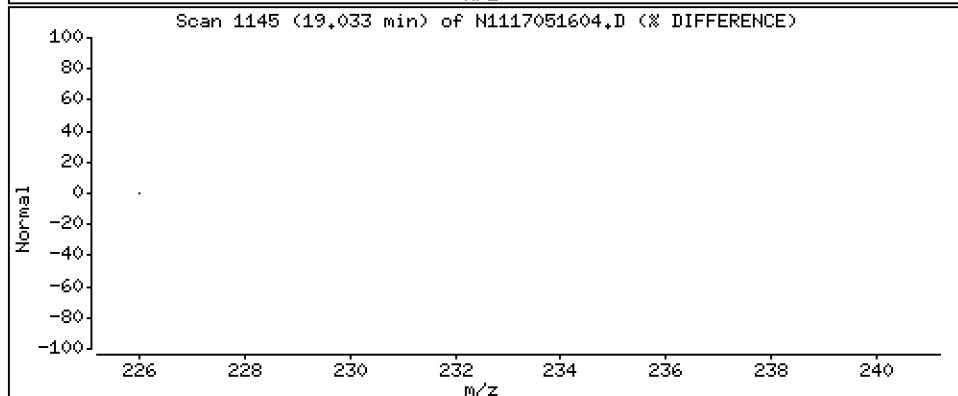
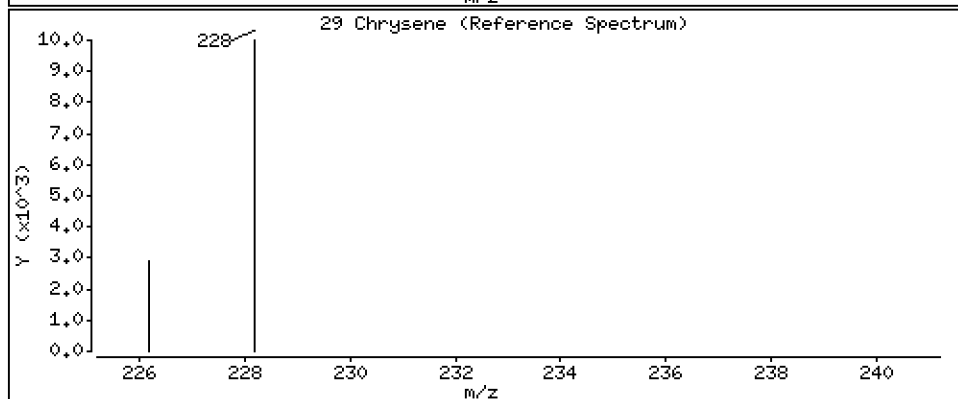
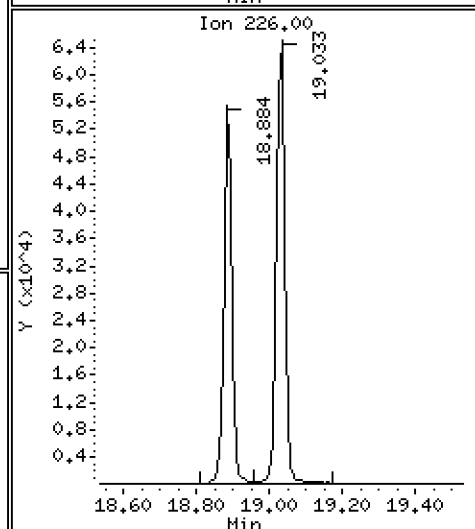
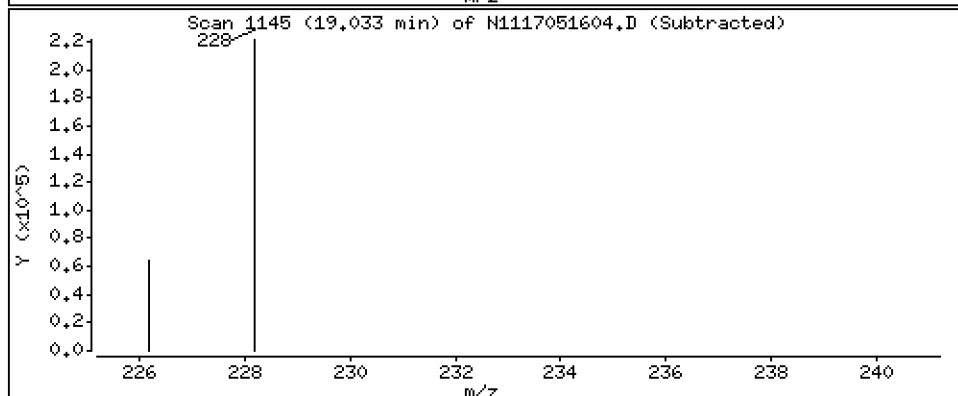
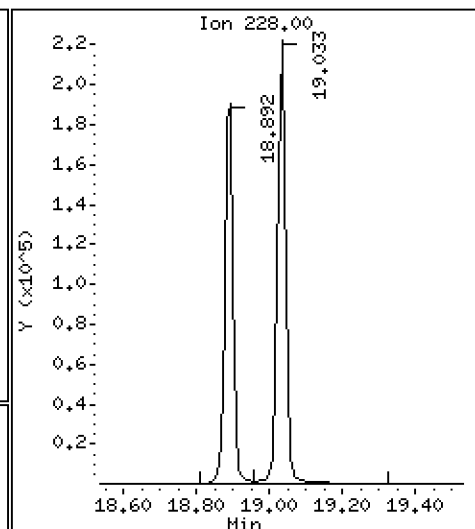
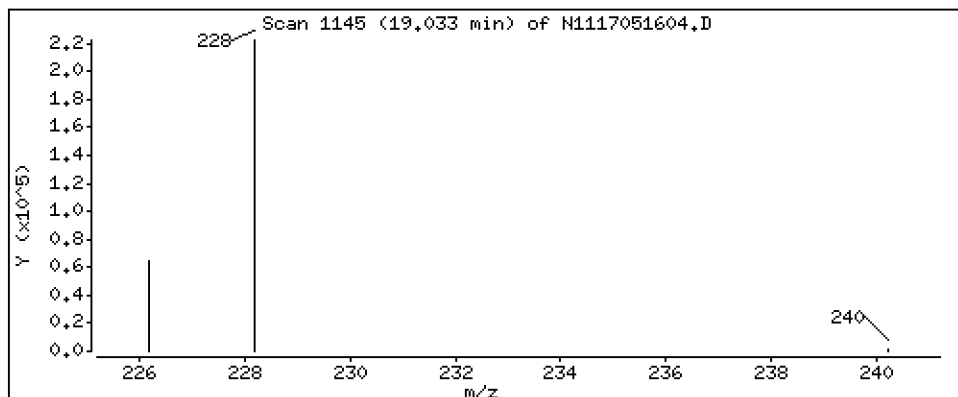
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

29 Chrysene

Concentration: 262 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

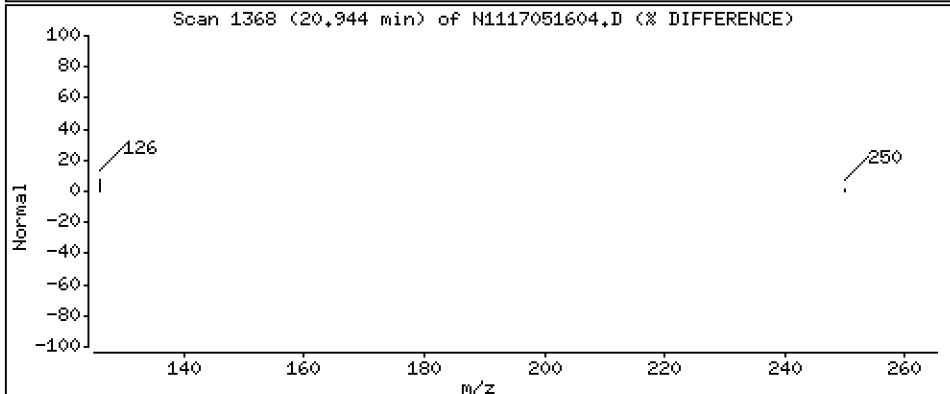
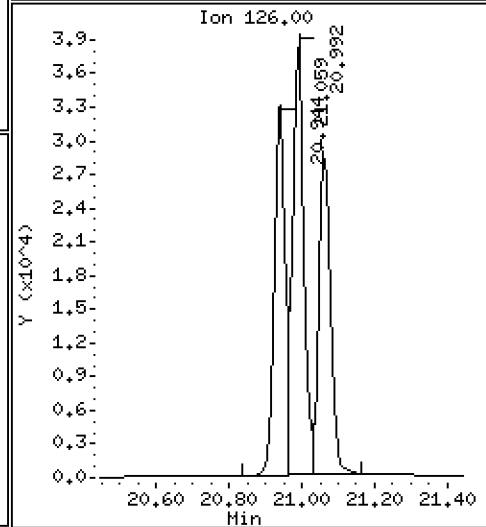
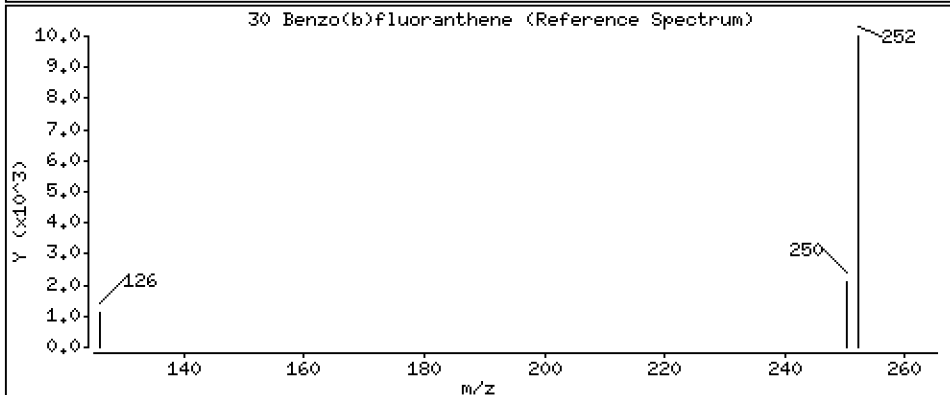
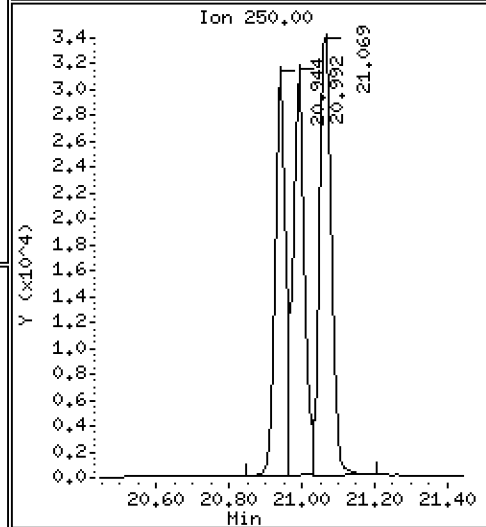
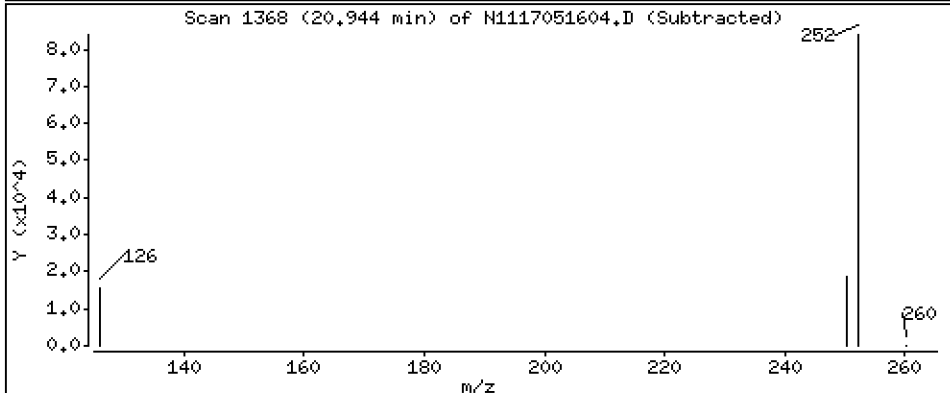
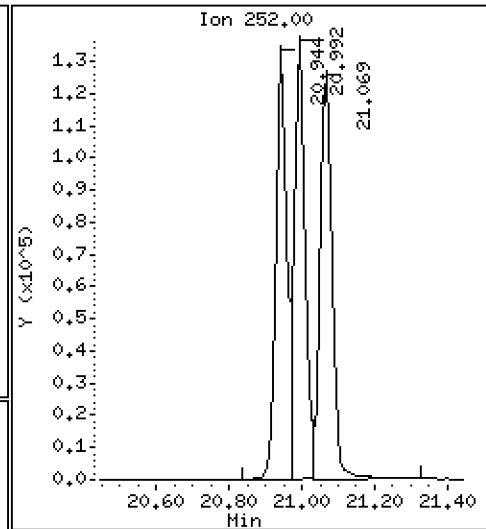
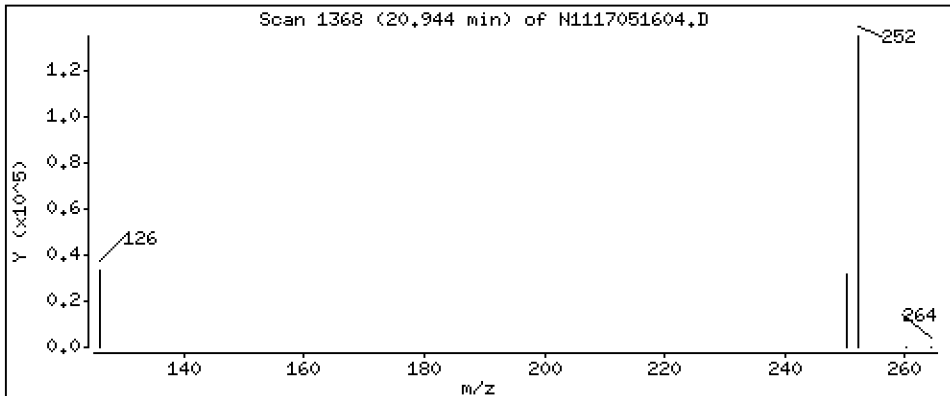
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Benzo(b)fluoranthene

Concentration: 242 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

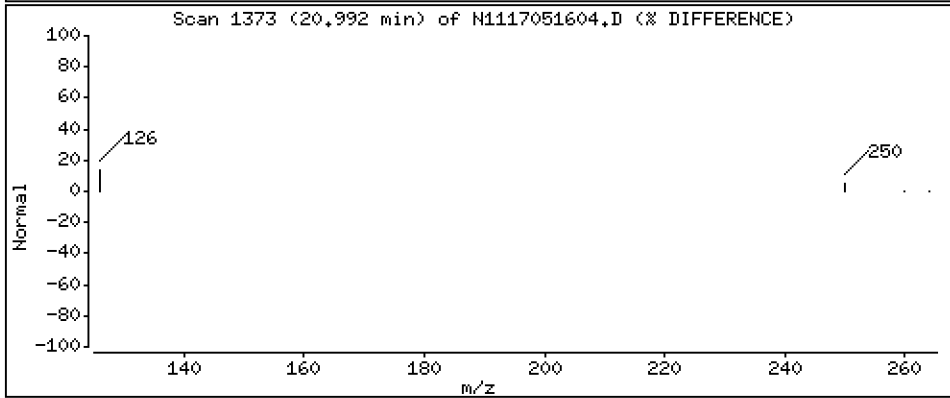
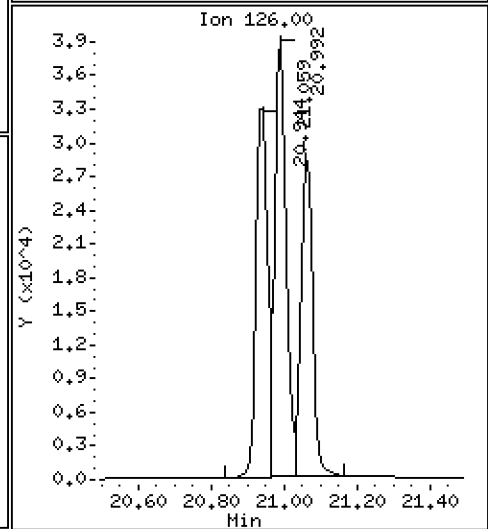
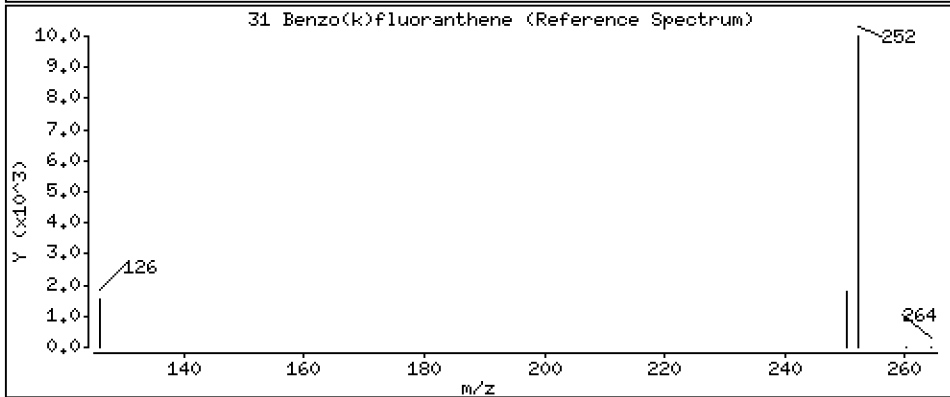
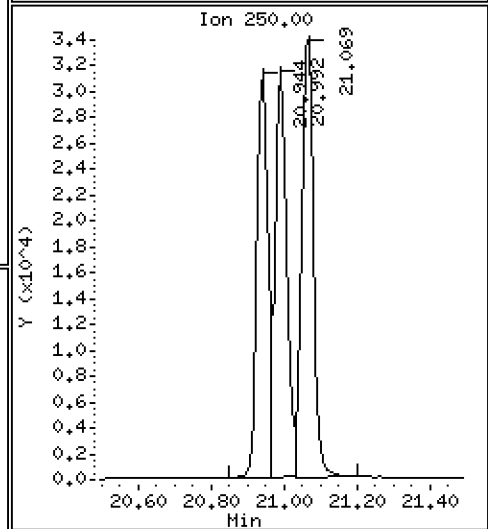
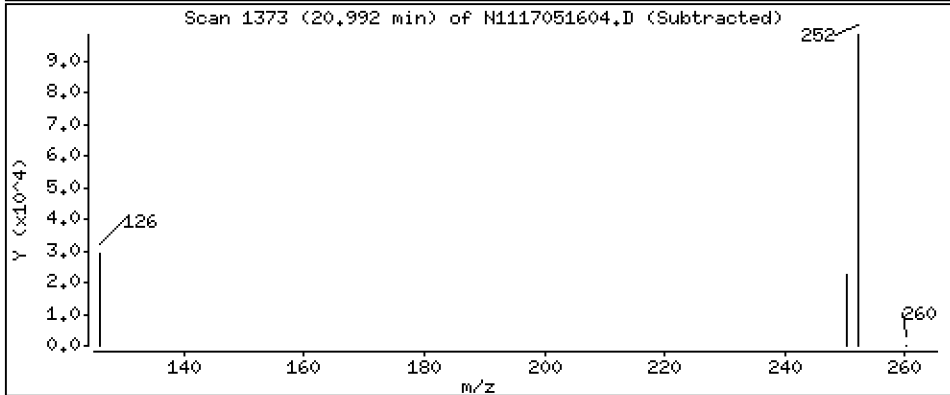
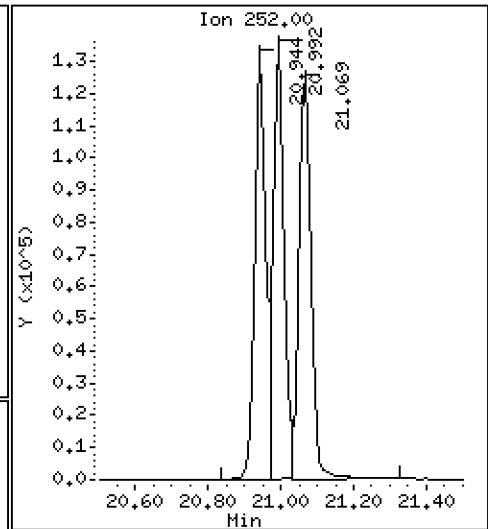
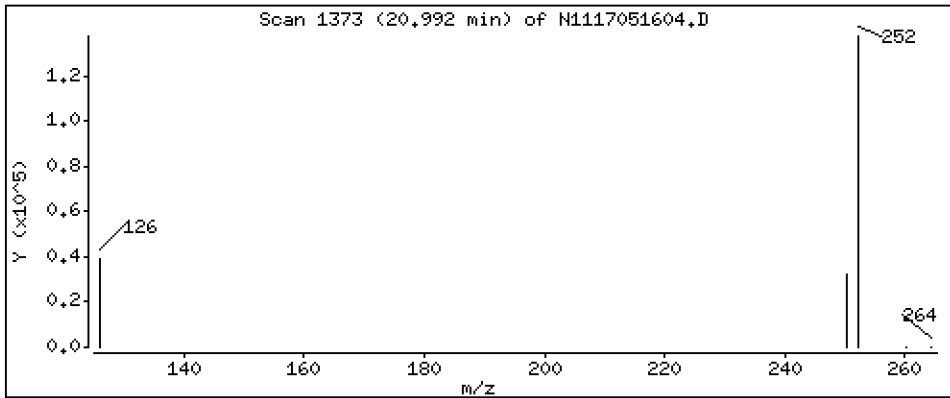
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

31 Benzo(k)fluoranthene

Concentration: 237 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

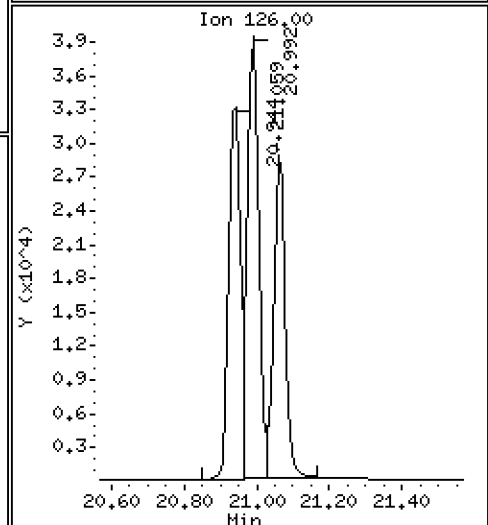
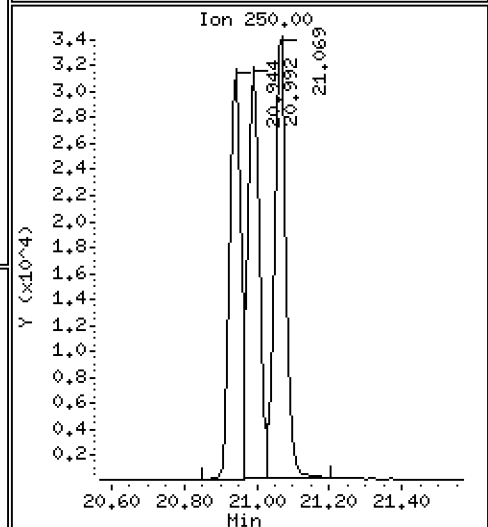
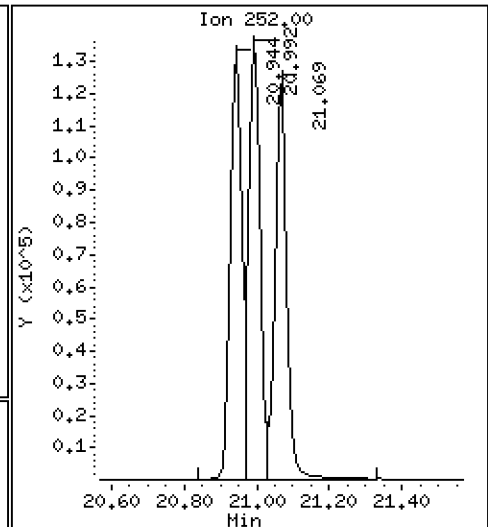
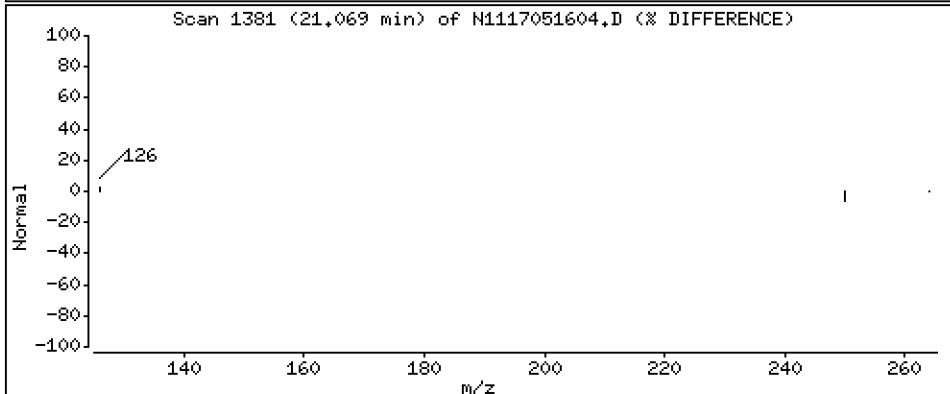
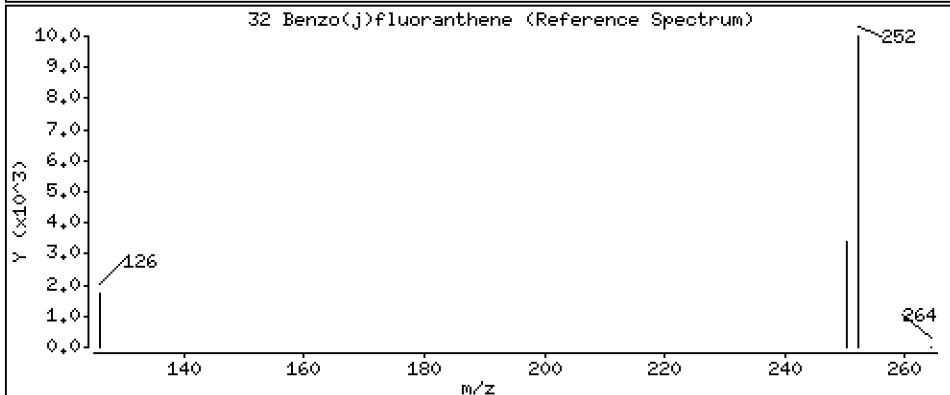
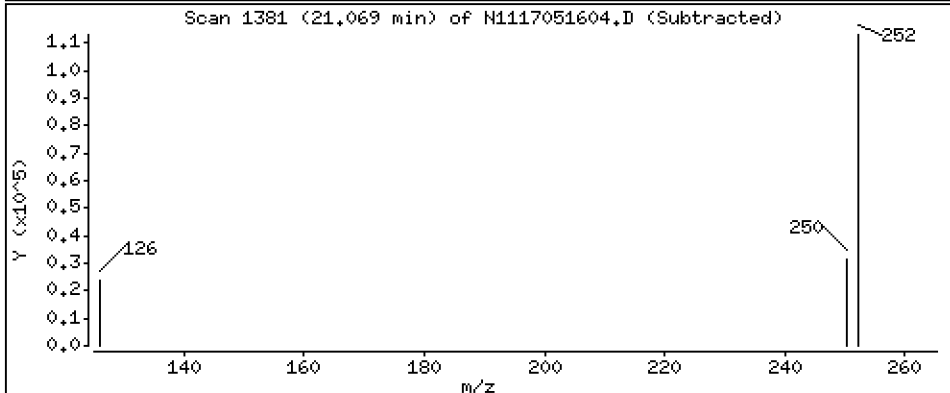
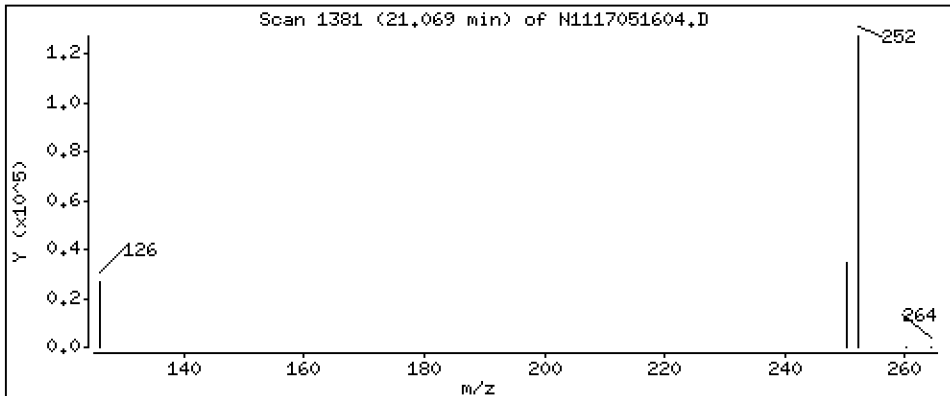
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

32 Benzo(j)fluoranthene

Concentration: 244 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

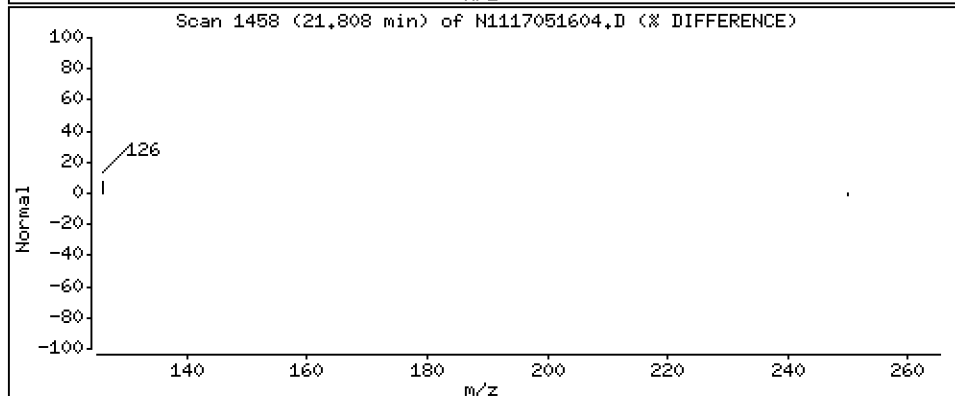
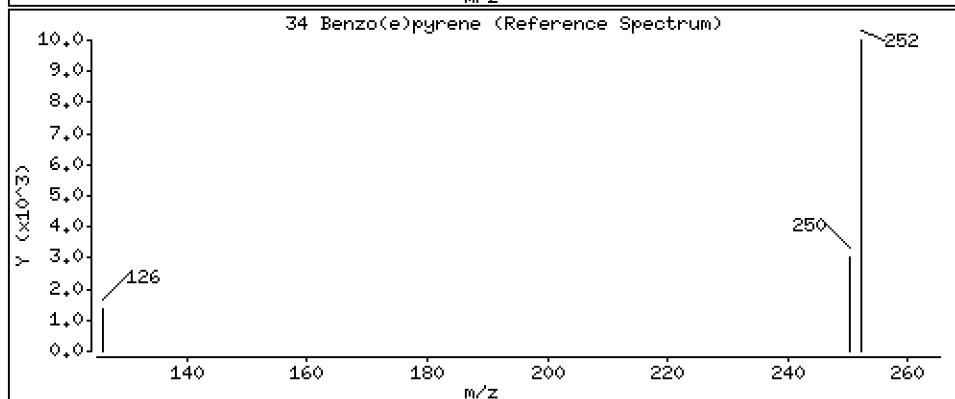
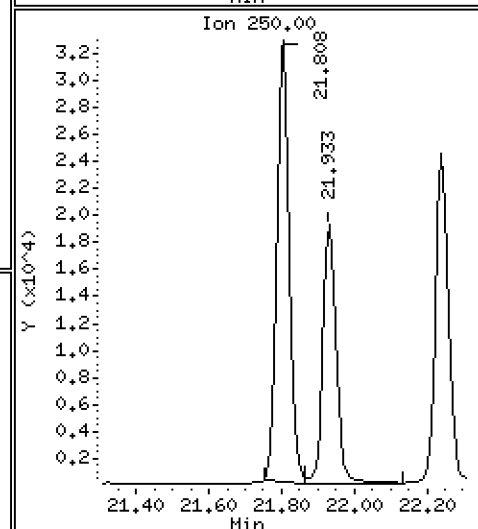
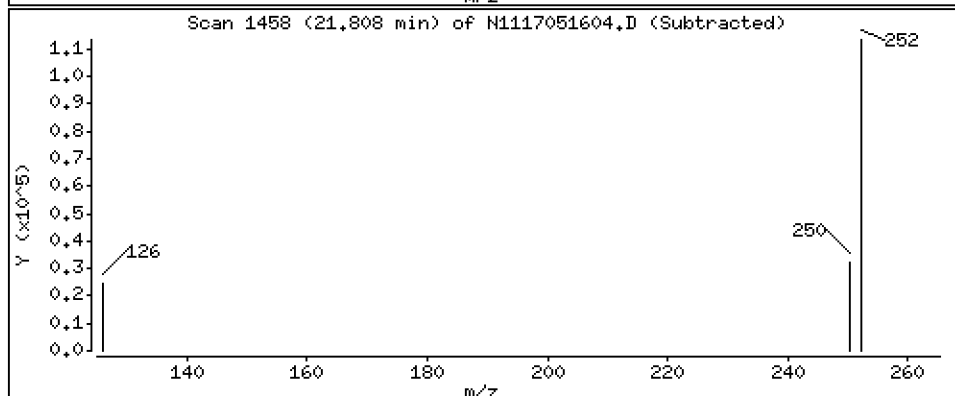
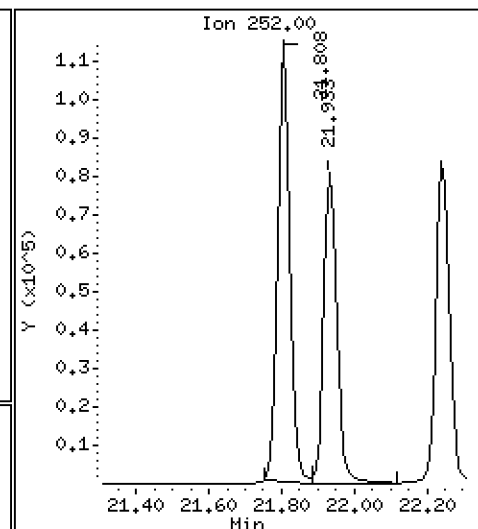
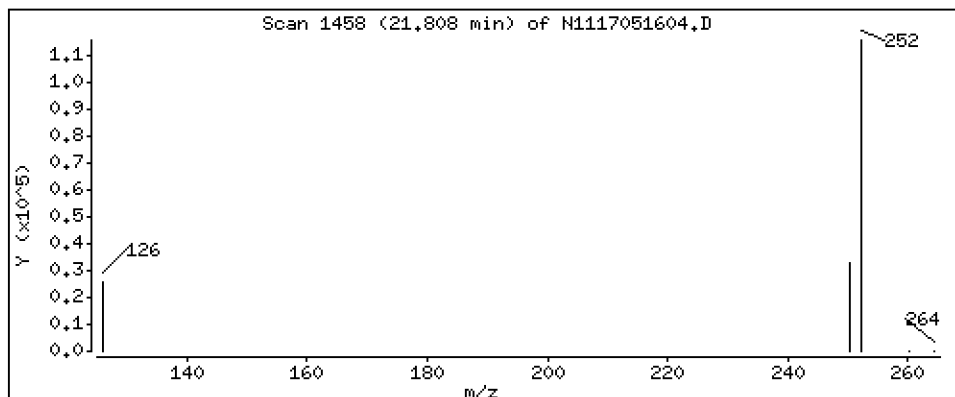
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

34 Benzo(e)pyrene

Concentration: 230 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

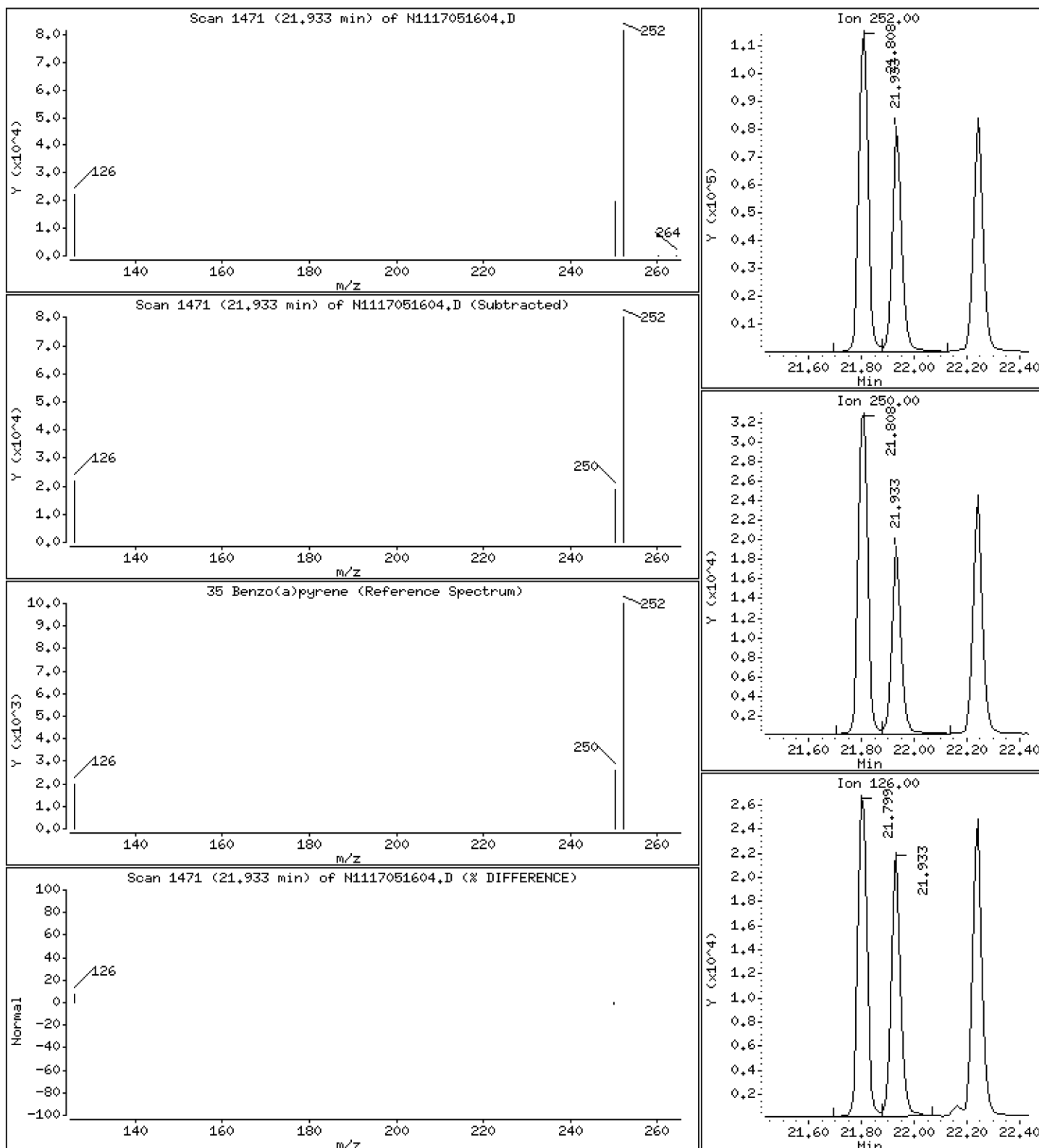
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

35 Benzo(a)pyrene

Concentration: 175 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

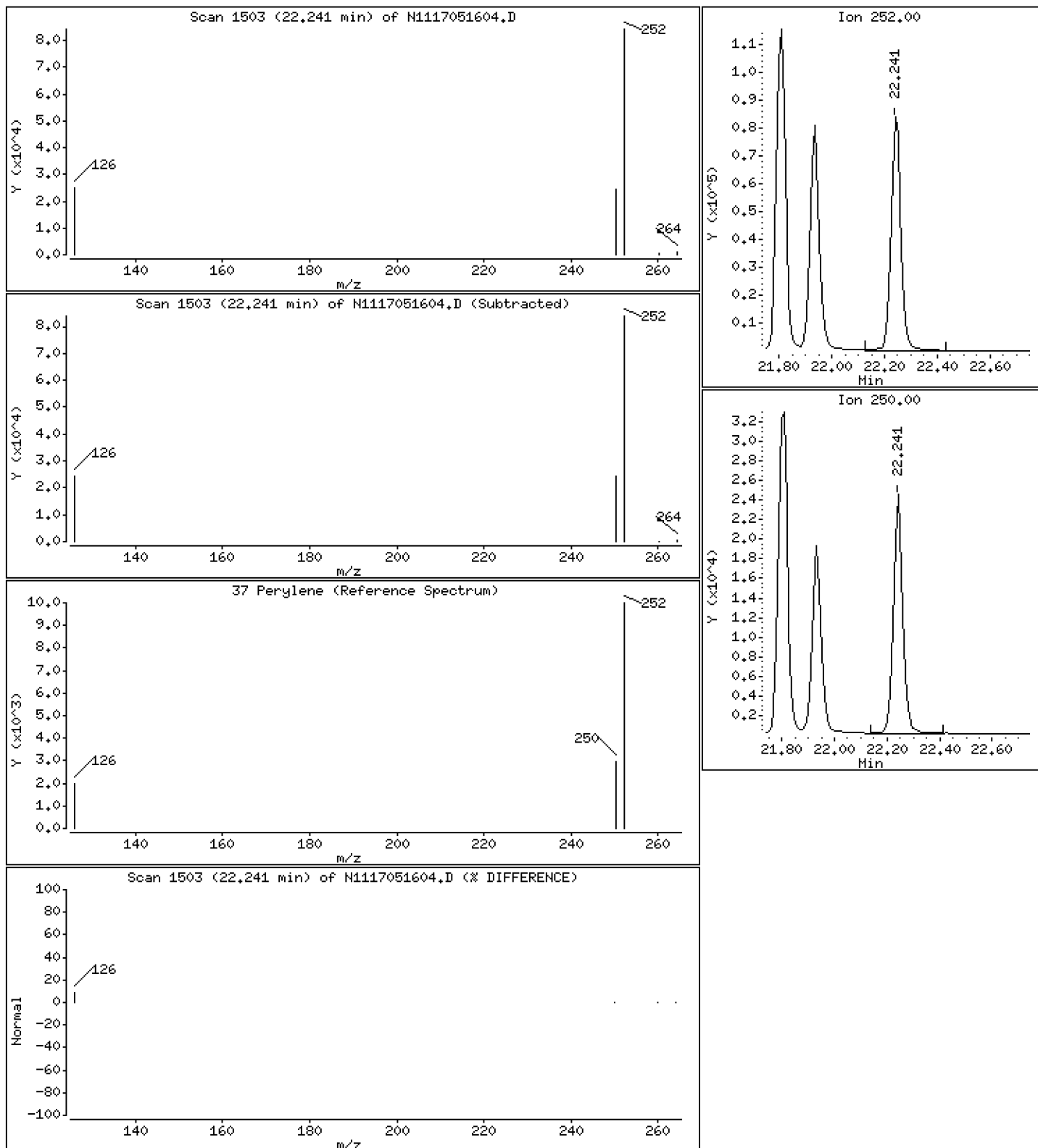
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Perylene

Concentration: 183 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

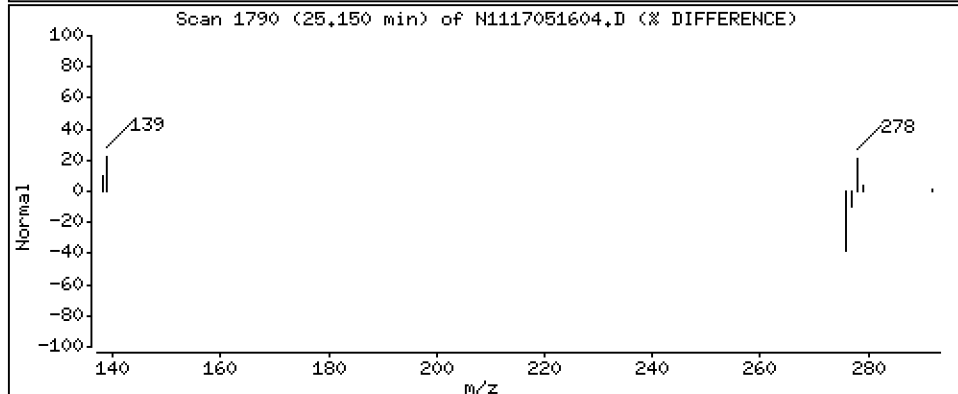
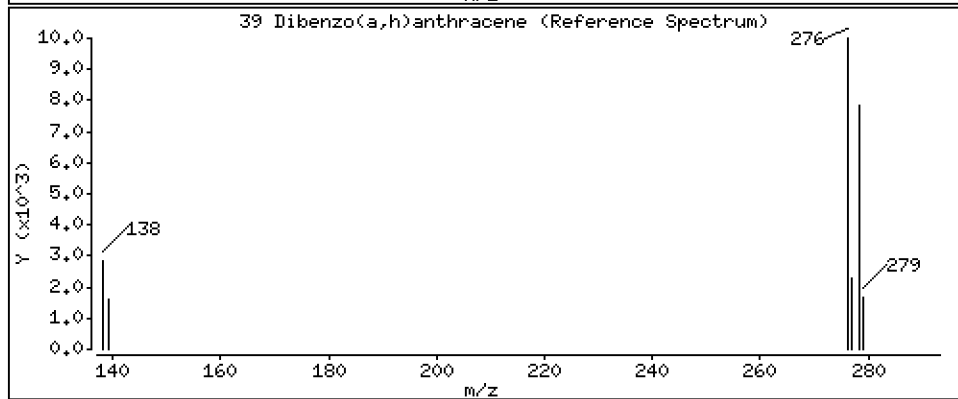
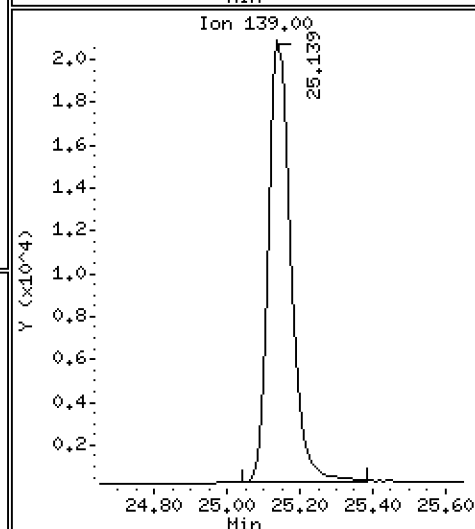
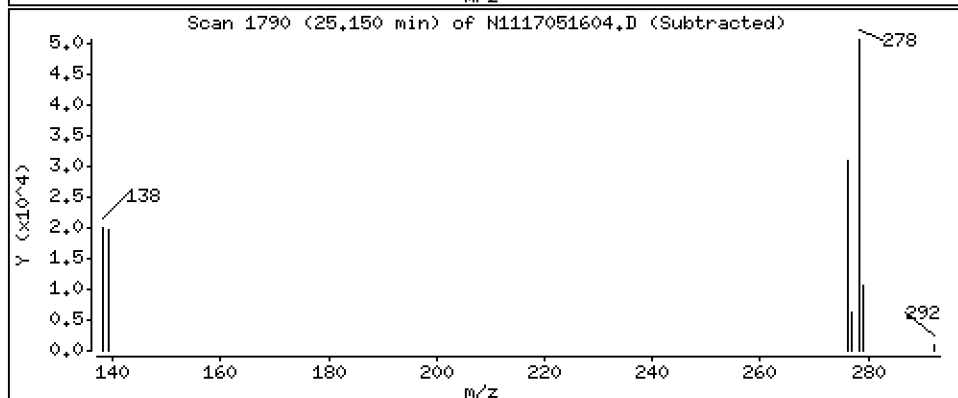
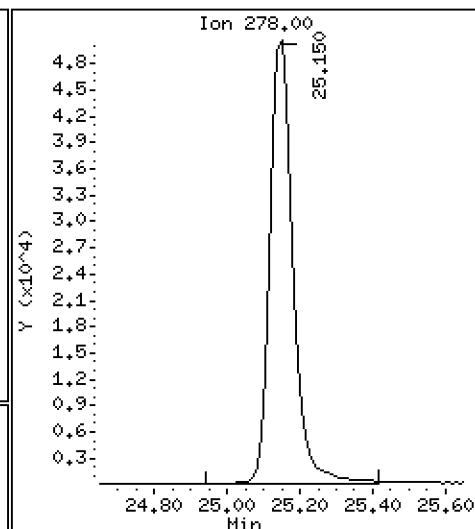
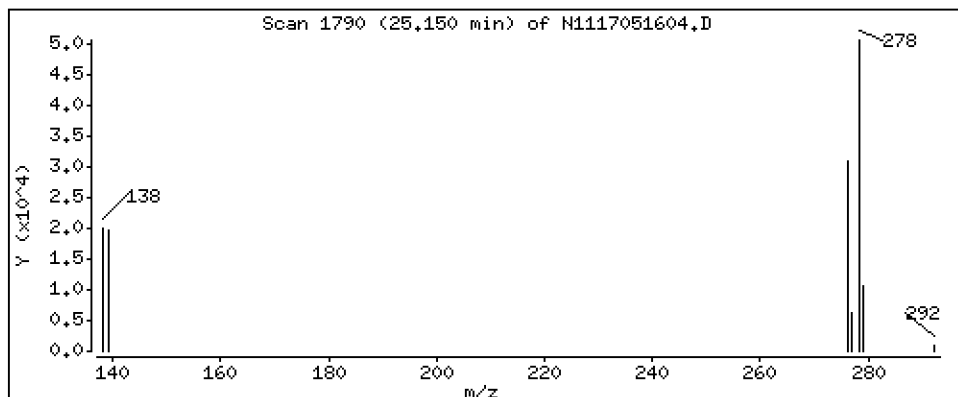
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

39 Dibenzo(a,h)anthracene

Concentration: 227 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

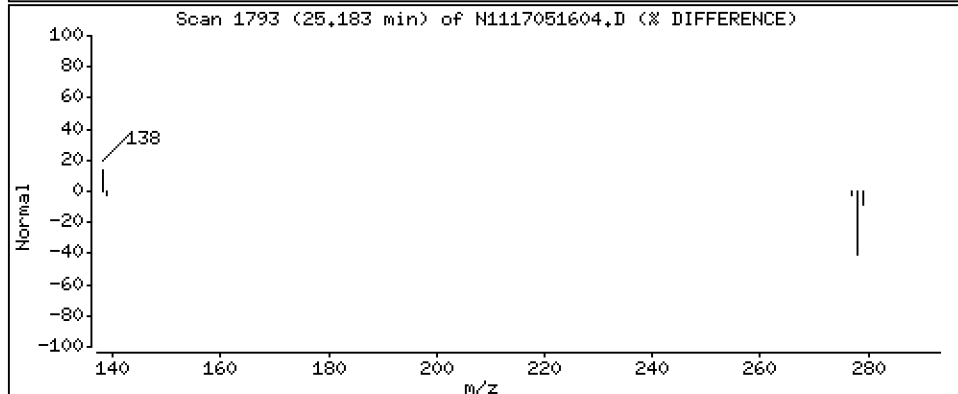
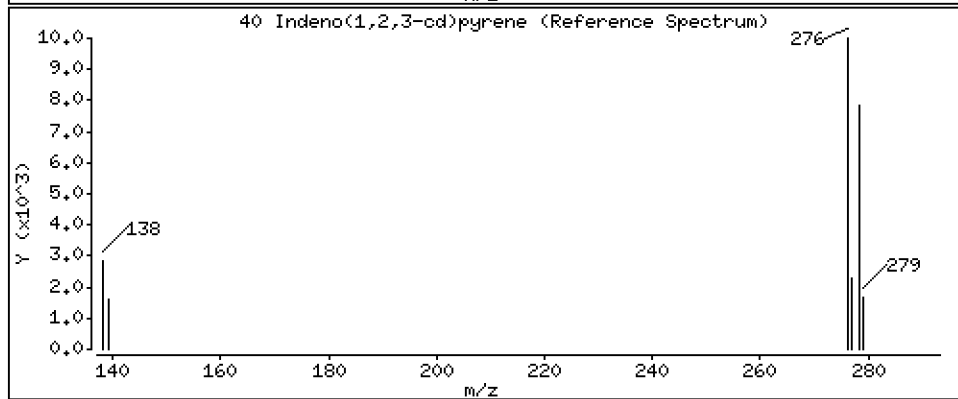
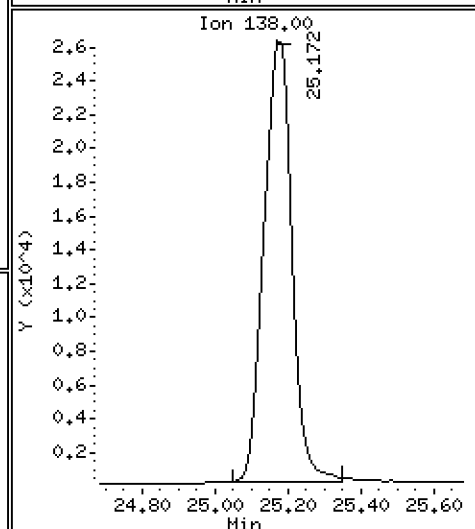
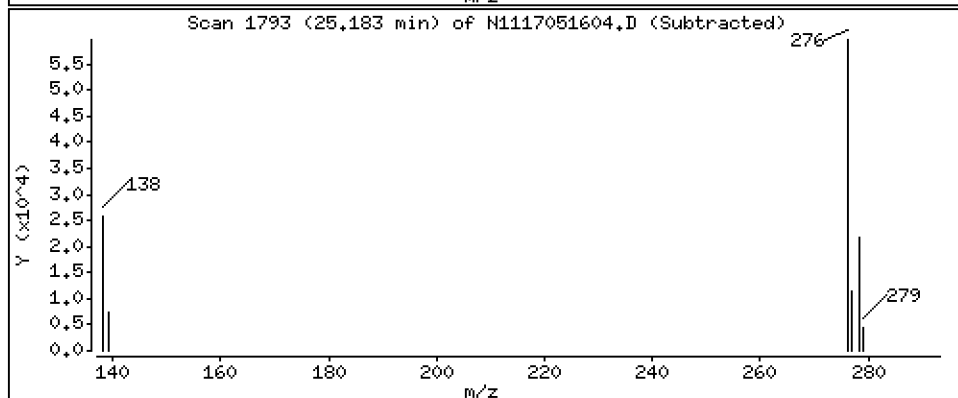
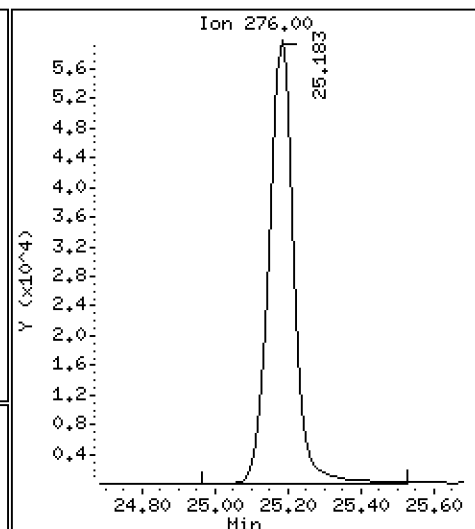
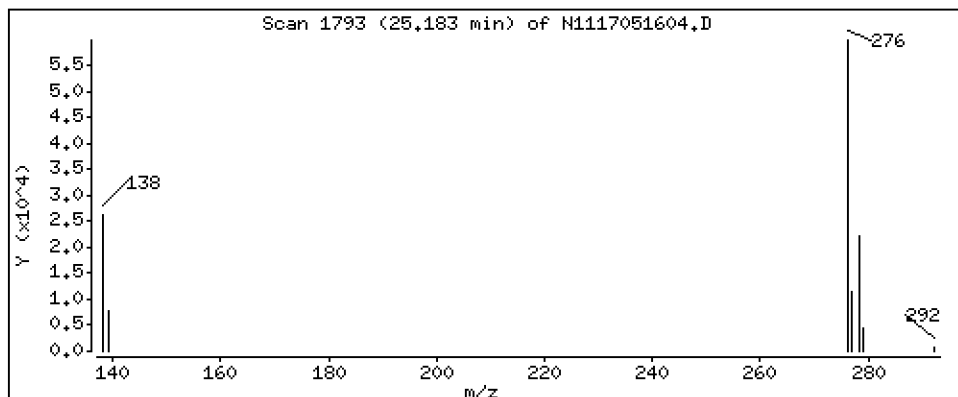
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 233 ng/mL



Date : 16-MAY-2017 12:11

Client ID:

Instrument: nt11.i

Sample Info: BFE0160-BS1

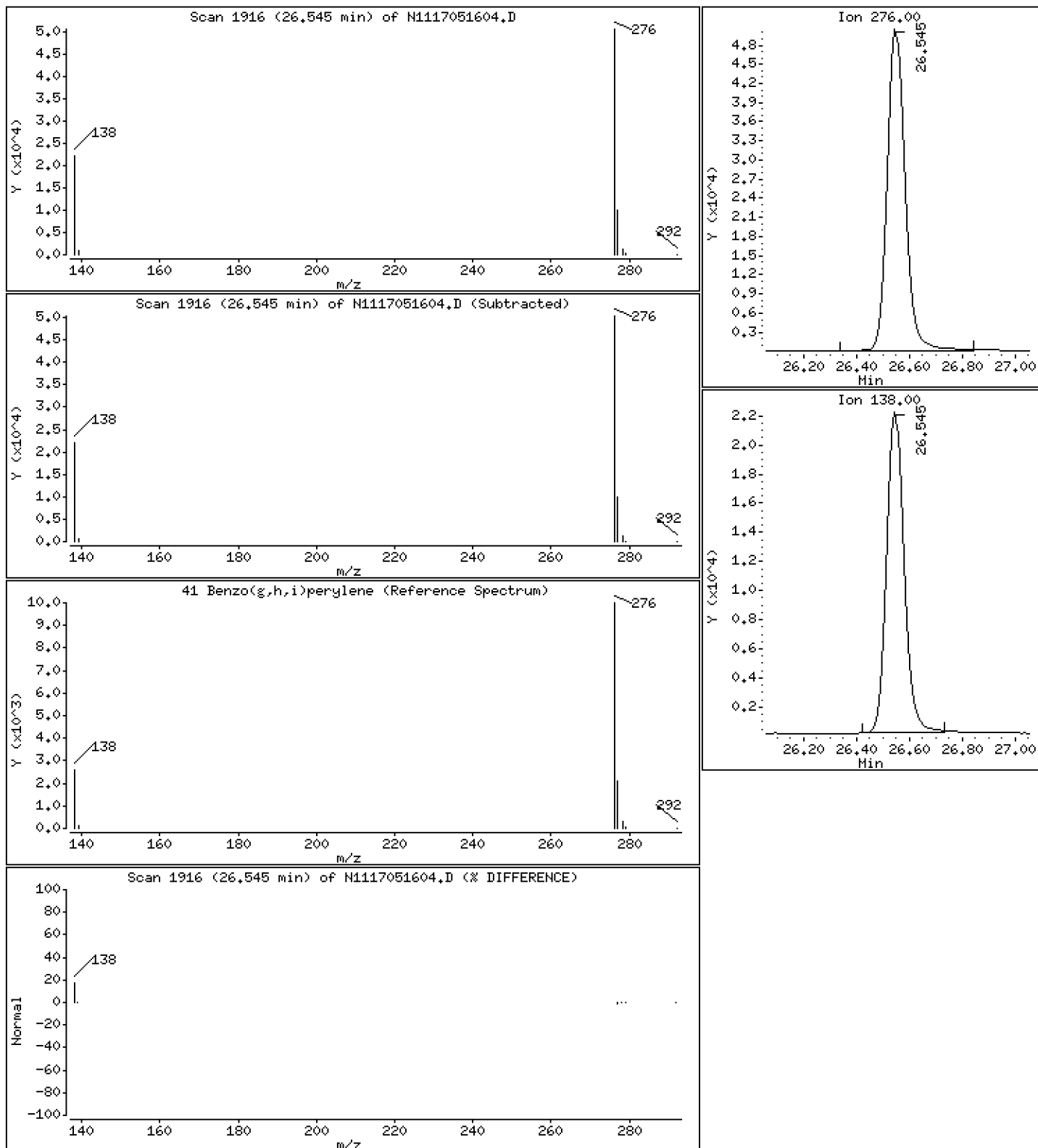
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

41 Benzo(g,h,i)perylene

Concentration: 227 ng/mL



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170516.b\N1117051604.D
 Lab Smp Id: BFE0160-BS1
 Inj Date : 16-MAY-2017 12:11 MS Autotune Date: 15-JAN-2015 16:59
 Operator : VTS Inst ID: nt11.i
 Smp Info : BFE0160-BS1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Meth Date : 17-May-2017 08:15 nt11.i Quant Type: ISTD
 Cal Date : 05-MAY-2017 14:47 Cal File: 17050508.D
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allpna.sub
 Target Version: 4.14
 Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ng/mL)
* 1 Naphthalene-d8	136		8.491	8.500	(1.000)	418761	200.000	
2 Naphthalene	128		8.527	8.536	(1.004)	349521	155.309	155
3 Benzo(b)thiophene	134		8.780	8.789	(1.034)	275318	155.921	156
\$ 4 2-Methylnaphthalene-d10	152		9.477	9.477	(1.116)	272966	152.109	152
5 2-Methylnaphthalene	142		9.529	9.540	(1.122)	322299	155.266	155
6 1-Methylnaphthalene	142		9.792	9.792	(1.153)	309787	154.320	154
7 2-Chloronaphthalene	162		10.443	10.454	(0.906)	283715	162.052	162
8 Biphenyl	154		10.401	10.412	(0.902)	396477	151.246	151
9 2,6-Dimethylnaphthalene	156		10.464	10.475	(0.908)	296606	161.463	161
10 Acenaphthylene	152		11.374	11.383	(0.987)	318297	161.205	161
* 11 Acenaphthene-d10	164		11.528	11.528	(1.000)	168457	200.000	
12 Acenaphthene	153		11.591	11.591	(1.005)	226459	175.395	175
13 Dibenzofuran	168		11.785	11.797	(1.022)	311725	174.989	175
14 2,3,5-Trimethylnaphthalene	170		11.886	11.886	(1.031)	188217	186.488	186
\$ 15 Fluorene-d10	174		Compound Not Detected.					
16 Fluorene	166		12.417	12.429	(1.077)	247493	178.156	178
17 Dibenzothiophene	184		14.052	14.052	(0.988)	222427	159.681	160
* 18 Phenanthrene-d10	188		14.220	14.220	(1.000)	269247	200.000	
19 Phenanthrene	178		14.262	14.262	(1.003)	396420	197.786	198
\$ 20 Anthracene-d10	188		Compound Not Detected.					
21 Anthracene	178		14.315	14.325	(1.007)	326671	165.438	165
22 Carbazole	167		15.000	15.000	(1.055)	325876	141.784	142
23 1-Methylphenanthrene	192		15.262	15.271	(1.073)	395614	217.951	218
\$ 24 Fluoranthene-d10	212		16.329	16.338	(1.148)	294475	231.354	231
25 Fluoranthene	202		16.367	16.367	(1.151)	434896	225.787	226
26 Pyrene	202		16.867	16.876	(0.889)	430725	265.810	266
27 Benzo(a)anthracene	228		18.892	18.892	(0.995)	313478	245.947	246
* 28 Chrysene-d12	240		18.983	18.983	(1.000)	178990	200.000	
29 Chrysene	228		19.033	19.033	(1.003)	345269	262.473	262
30 Benzo(b)fluoranthene	252		20.943	20.943	(0.945)	306491	241.603	242
31 Benzo(k)fluoranthene	252		20.991	21.001	(0.947)	298217	237.133	237
32 Benzo(j)fluoranthene	252		21.068	21.068	(0.950)	287611	244.084	244
\$ 33 Benzo(e)pyrene-d12	264		Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ng/mL)
34 Benzo(e)pyrene	252	21.808	21.808	(0.984)	271450	230.184	230
35 Benzo(a)pyrene	252	21.933	21.933	(0.989)	201351	175.461	175
* 36 Perylene-d12	264	22.173	22.173	(1.000)	203014	200.000	
37 Perylene	252	22.240	22.250	(1.003)	216423	183.029	183
§ 38 Dibenzo(a,h)anthracene-d14	292	25.005	25.016	(1.128)	169992	224.476	224
39 Dibenzo(a,h)anthracene	278	25.149	25.149	(1.134)	219877	226.708	227
40 Indeno(1,2,3-cd)pyrene	276	25.182	25.182	(1.136)	281542	232.586	233
41 Benzo(g,h,i)perylene	276	26.545	26.556	(1.197)	235265	227.203	227

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i Calibration Date: 16-MAY-2017
 Lab File ID: N1117051604.D Calibration Time: 10:47
 Lab Smp Id: BFE0160-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Misc Info:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	418761	12.77
11 Acenaphthene-d10	154428	77214	308856	168457	9.08
18 Phenanthrene-d10	256956	128478	513912	269247	4.78
28 Chrysene-d12	208629	104315	417258	178990	-14.21
36 Perylene-d12	225431	112716	450862	203014	-9.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.49	-0.11
11 Acenaphthene-d10	11.53	11.03	12.03	11.53	0.00
18 Phenanthrene-d10	14.22	13.72	14.72	14.22	0.00
28 Chrysene-d12	18.98	18.48	19.48	18.98	0.00
36 Perylene-d12	22.17	21.67	22.67	22.17	0.00

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

REVIEW SUMMARY FOR FILE - N1117051604.D

Lab ID: BFE0160-BS1
nt11.i, 20170516.b\LOWSIM.m, 16-MAY-2017 12:11

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

On Column LOD for nt11.i, 20170516.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 6.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

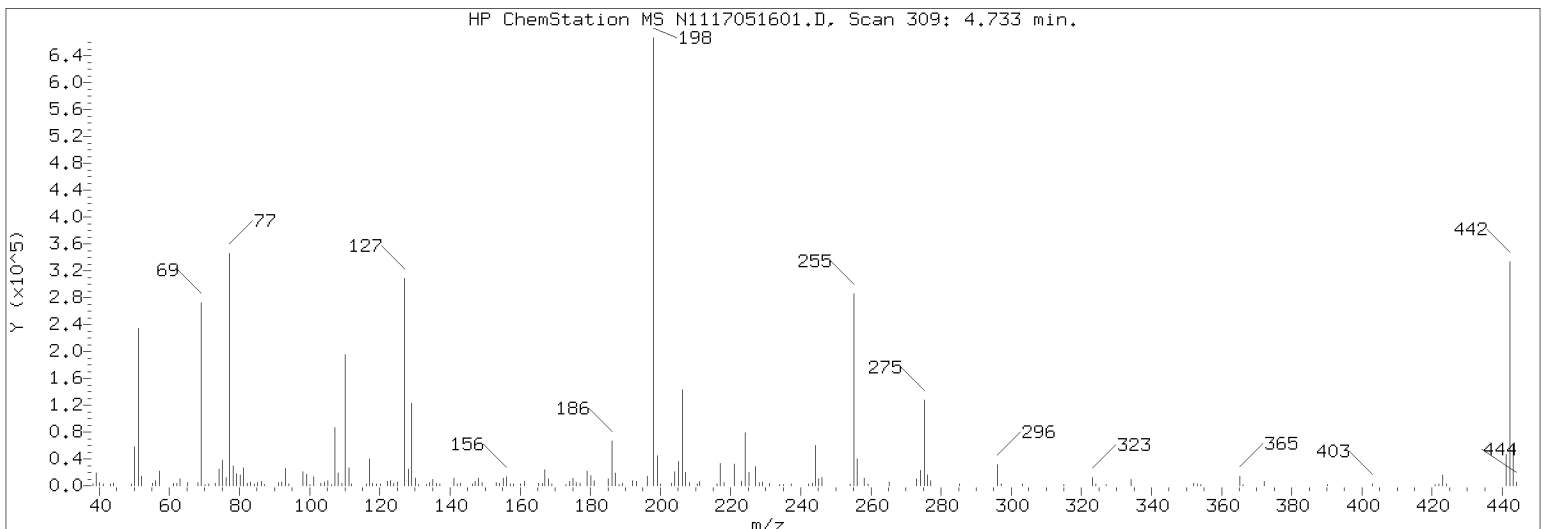
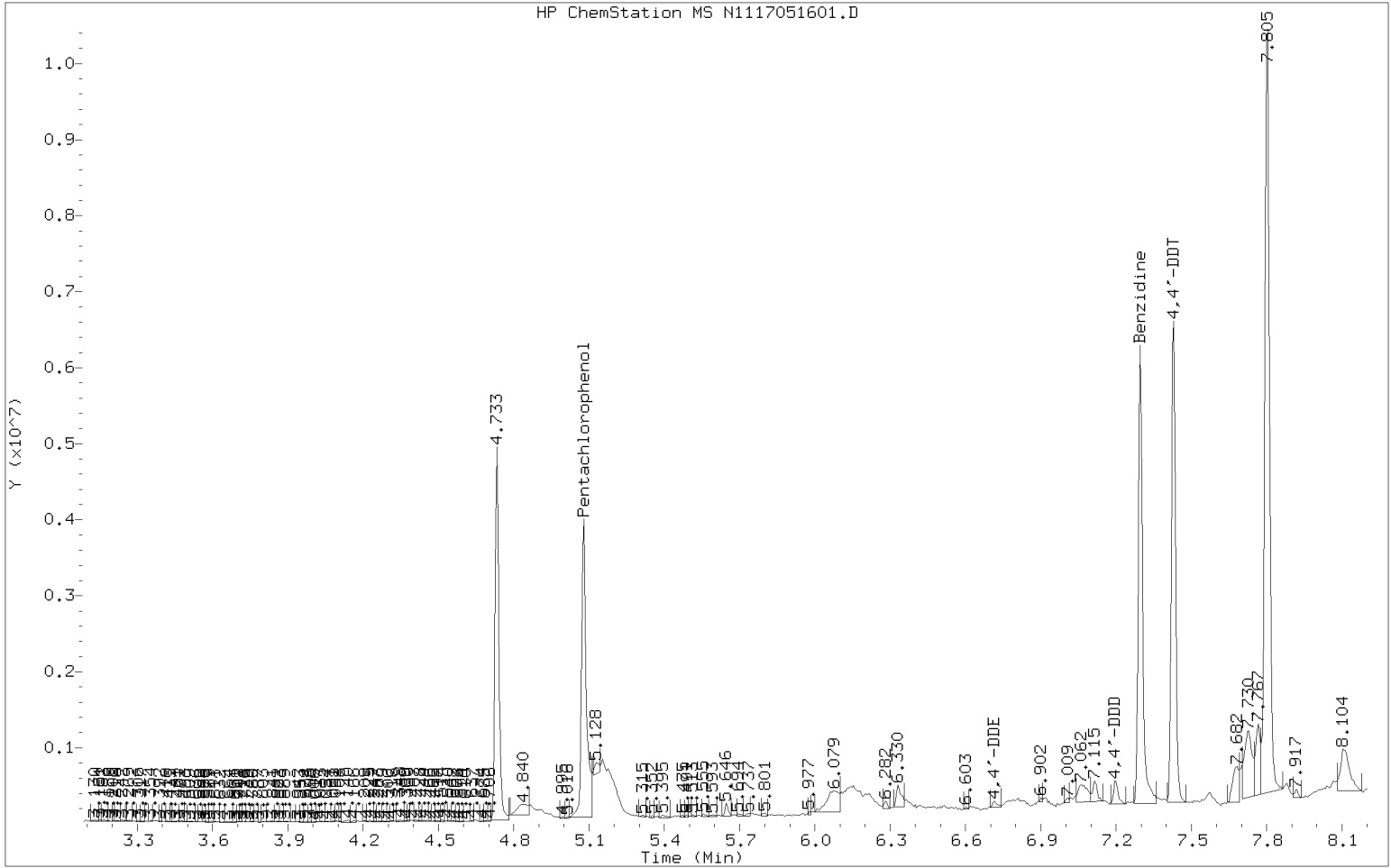
Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
 Lab File ID: N1117051601.D Injection Date: 05/16/17
 Instrument ID: NT11 Injection Time: 10:27
 Sequence: SFE0208 Lab Sample ID: SFE0208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	36.8	PASS
68	Less than 2% of 69	1.9	PASS
69	Less than 100% of 198	39.6	PASS
70	Less than 2% of 69	1.05	PASS
127	10 - 80% of 198	47.3	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.29	PASS
275	10 - 60% of 198	19.7	PASS
365	1 - 100% of 198	2.09	PASS
441	0.1 - 24% of 442	15	PASS
442	50 - 200% of 198	52	PASS
443	15 - 24% of 442	18.9	PASS

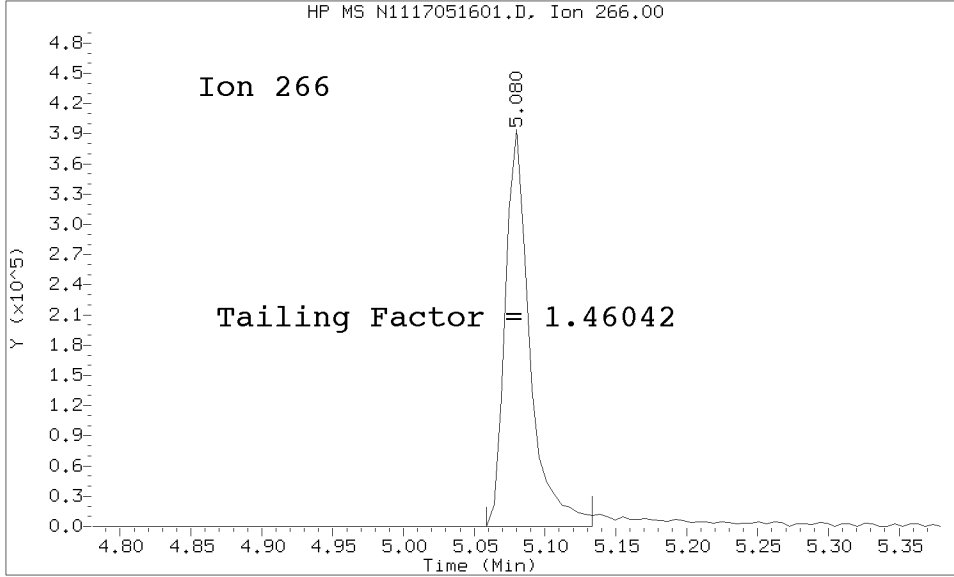
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SFE0208-TUN1	N1117051601.D	05/16/2017	10:27
Initial Cal Check	SFE0208-ICV1	N1117051602.D	05/16/2017	10:47
Blank	BFE0160-BLK1	N1117051603.D	05/16/2017	11:35
LCS	BFE0160-BS1	N1117051604.D	05/16/2017	12:11
PG-GP-OYS-COC-170424	17D0421-01	N1117051605.D	05/16/2017	12:48
PG-GP-COC-COC-170424	17D0421-02	N1117051606.D	05/16/2017	13:24
PG-WS-OYS-COC-170424	17D0421-04	N1117051608.D	05/16/2017	14:36
PG-WS-COC-COC-170425	17D0421-05	N1117051609.D	05/16/2017	15:13
PG-WS-LTN-COC-170424	17D0421-06	N1117051610.D	05/16/2017	15:49
PG-WS-MAN-COC-170424	17D0421-07	N1117051611.D	05/16/2017	16:26
G-SMA3-GEO-COC-170424	17D0421-08	N1117051612.D	05/16/2017	17:02
G-SMA3-DUNM-COC-170424	17D0421-09	N1117051613.D	05/16/2017	17:39
G-SMA3-DUNH-COC-170424	17D0421-10	N1117051614.D	05/16/2017	18:15
ZZZZZ	17E0012-01	N1117051615.D	05/16/2017	18:52
ZZZZZ	17E0012-02	N1117051616.D	05/16/2017	19:28
ZZZZZ	17E0012-03	N1117051617.D	05/16/2017	20:04
ZZZZZ	17E0012-04	N1117051618.D	05/16/2017	20:40
ZZZZZ	17E0012-05	N1117051619.D	05/16/2017	21:16
ZZZZZ	17E0012-06	N1117051620.D	05/16/2017	21:53
Calibration Check	SFE0208-CCV1	N1117051621.D	05/16/2017	22:29

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20170516.b/N1117051601.D/N1117051601.D
 Method Used: \20170516.b\DFTPP.m Inst: nt11
 Injection Date: 16-MAY-2017 10:27 Operator: VTS
 Sample Info: SFE0208-TUN1 SFE0208-TUN1
 Report Date: 05/17/2017 08:14



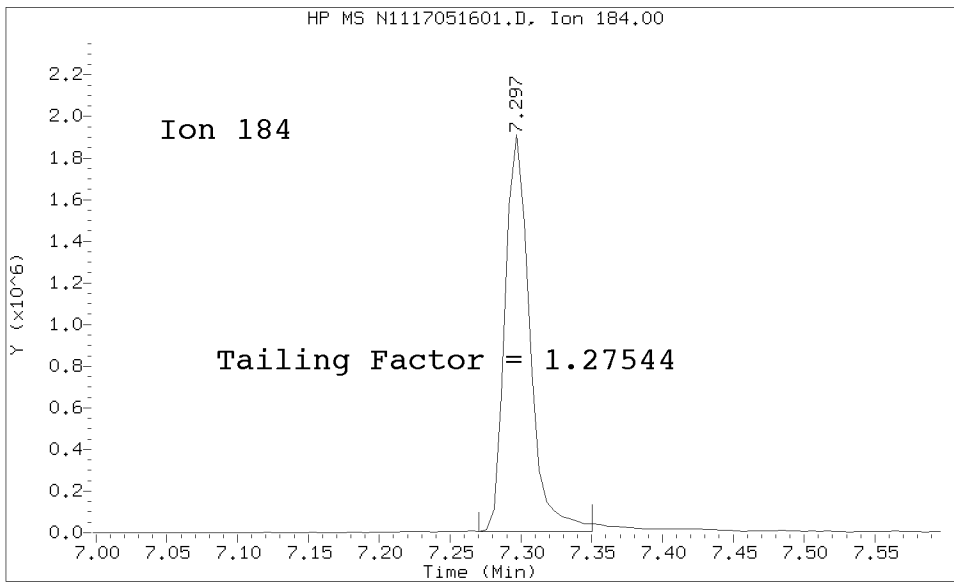
Datafile Analyzed: /20170516.b/N1117051601.D/N1117051601.D
Method Used: \20170516.b\DFTPP.m\sw846ddt.m Inst: nt11
Injection Date: 16-MAY-2017 10:27 Operator: VTS
Sample Info: SFE0208-TUN1
Report Date: 05/17/2017 08:14



Pentachlorophenol

=====
Exp. RT = 5.080
Found RT = 5.080

Tail Factor = 1.460 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.297
Found RT = 7.297

Tail Factor = 1.275 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4604236	2.000	PASS
Benzidine	1.2754425	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1212204			N/A
4,4-DDE	6820	0.6	20.0	PASS
4,4-DDD	57000	4.5	20.0	PASS
4,4-DDD + DDE	63820	5.0	20.0	PASS

Tuning Sample, nt11.i/20170516.b/N1117051601.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.77
68	Less than 2.00% of mass 69	0.75 (1.90)
69	Mass 69 relative abundance	39.57
70	Less than 2.00% of mass 69	0.42 (1.05)
127	10.00 - 80.00% of mass 198	47.34
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.29
275	10.00 - 60.00% of mass 198	19.72
365	Greater than 1.00% of mass 198	2.09
441	0.01 - 24.00% of mass 442	7.79 (14.99)
442	50.00 - 200.00% of mass 198	51.96
443	15.00 - 24.00% of mass 442	9.80 (18.85)

Data File: N1117051601.D
 Spectrum: Avg. Scans 308-310 (4.73), Background Scan 302
 Location of Maximum: 198.00
 Number of points: 186

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	940	104.00	5185	168.00	8236	237.00	1565
39.00	14278	105.00	6274	169.00	1032	242.00	1021
41.00	3284	106.00	1703	173.00	685	243.00	3702
43.00	675	107.00	75328	174.00	3828	244.00	47192
44.00	133	108.00	13993	175.00	8719	245.00	7894
49.00	8	109.00	2076	176.00	2732	246.00	7943
50.00	45336	110.00	160576	177.00	3164	249.00	909
51.00	201088	111.00	22496	178.00	749	254.00	839
52.00	12412	112.00	2261	179.00	15378	255.00	232512
56.00	7445	116.00	2438	180.00	11871	256.00	34856
57.00	17456	117.00	33336	181.00	6839	257.00	1141
61.00	1165	118.00	2739	185.00	7350	258.00	10606
62.00	3752	119.00	814	186.00	58216	259.00	943
63.00	7827	120.00	1536	187.00	15624	265.00	4285
65.00	5159	122.00	5201	188.00	697	273.00	8011
67.00	948	123.00	6620	189.00	3286	274.00	19840
68.00	4114	124.00	3558	192.00	4878	275.00	107832
69.00	216384	125.00	4072	193.00	5043	276.00	13737
70.00	2282	127.00	258880	196.00	13263	277.00	7306
71.00	631	128.00	20056	198.00	546880	285.00	825
73.00	2609	129.00	98144	199.00	39880	296.00	25752
74.00	17544	130.00	7984	200.00	2689	297.00	3203
75.00	31680	131.00	735	201.00	985	303.00	2261
76.00	11476	133.00	743	203.00	3014	315.00	2663
77.00	278464	134.00	2912	204.00	15925	323.00	9410
78.00	23720	135.00	7826	205.00	28824	324.00	1760
79.00	15698	136.00	3137	206.00	115384	327.00	752
80.00	12996	137.00	3862	207.00	15135	334.00	6140
81.00	17616	141.00	9094	208.00	2393	352.00	2028
82.00	4333	142.00	2987	210.00	1568	353.00	1772
83.00	6661	143.00	2331	211.00	6560	354.00	2009
84.00	2952	146.00	840	216.00	1759	365.00	11420
85.00	4106	147.00	6315	217.00	28336	366.00	790
86.00	4933	148.00	9450	218.00	3147	372.00	5171
87.00	770	149.00	1355	221.00	28888	390.00	734
91.00	5236	153.00	3845	222.00	1489	402.00	1022
92.00	4489	154.00	2944	223.00	6526	403.00	1034
93.00	23368	155.00	7084	224.00	65192	421.00	1733
94.00	893	156.00	9858	225.00	15294	422.00	2187
95.00	1472	157.00	2620	226.00	934	423.00	16092
96.00	1688	158.00	1797	227.00	23944	424.00	2643
97.00	1598	159.00	685	228.00	3945	441.00	42584
98.00	15952	160.00	2743	229.00	4499	442.00	284160
99.00	14856	161.00	5395	230.00	901	443.00	53568
100.00	704	165.00	3664	231.00	1333	444.00	4980
101.00	10798	166.00	3517	234.00	2191		
103.00	2422	167.00	19512	235.00	680		



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

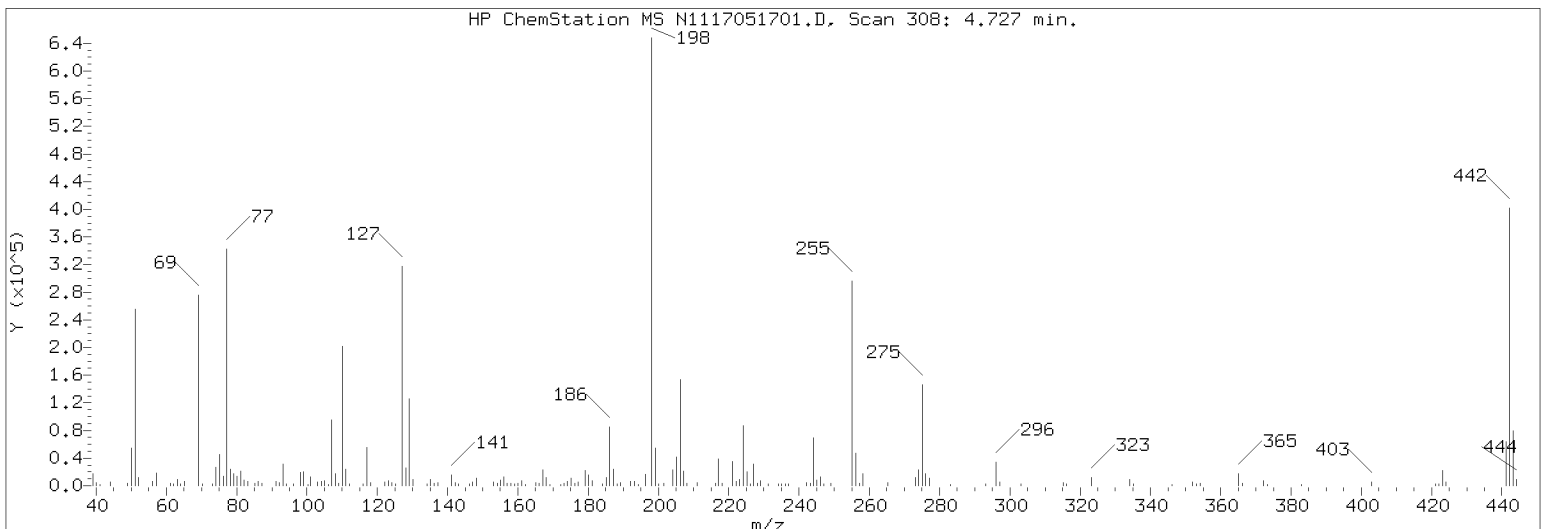
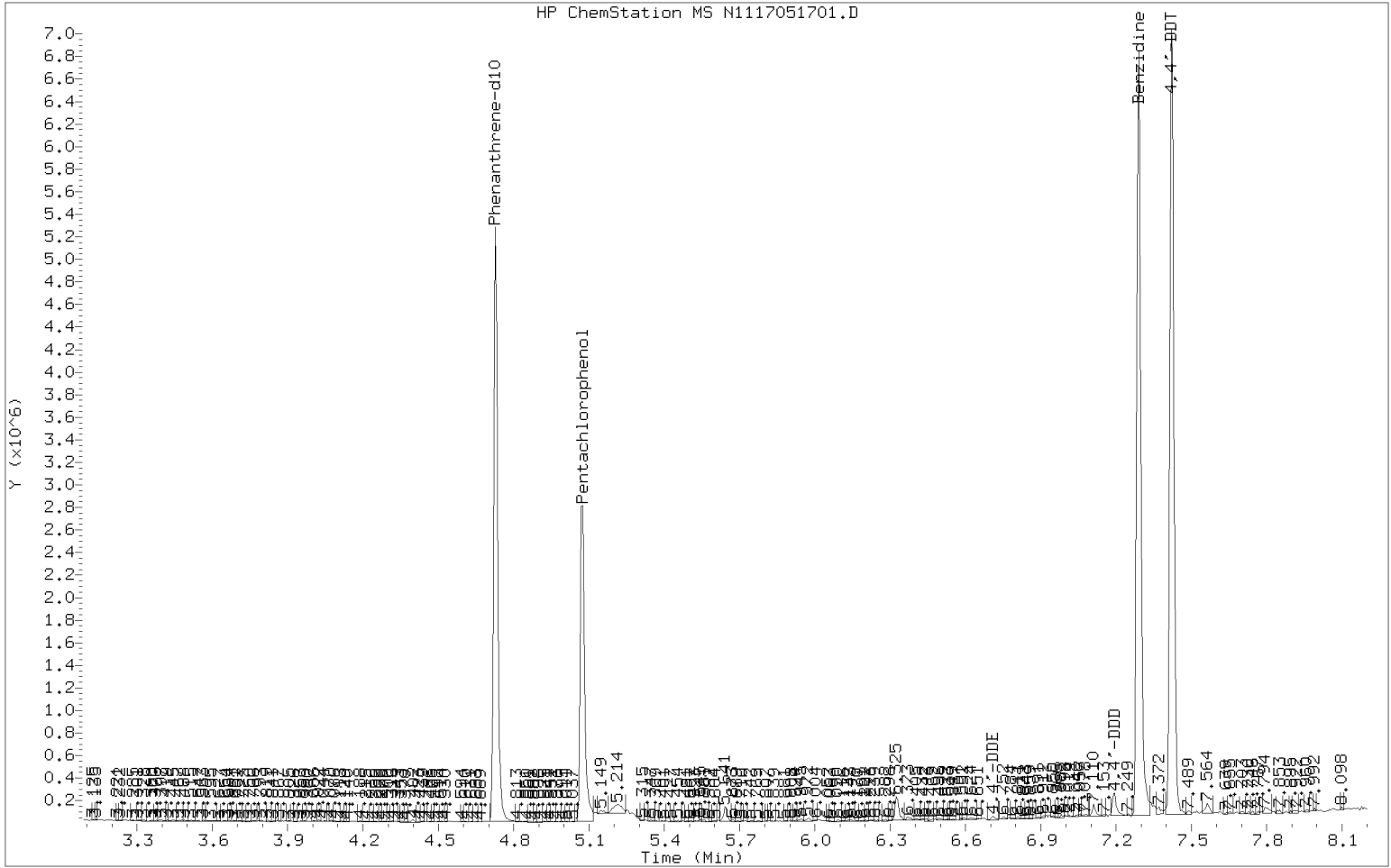
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Lab File ID:	<u>N1117051701.D</u>	Injection Date:	<u>05/17/17</u>
Instrument ID:	<u>NT11</u>	Injection Time:	<u>08:41</u>
Sequence:	<u>SFE0225</u>	Lab Sample ID:	<u>SFE0225-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	36.5	PASS
68	Less than 2% of 69	1.18	PASS
69	Less than 100% of 198	41.2	PASS
70	Less than 2% of 69	0.381	PASS
127	10 - 80% of 198	48.7	PASS
197	Less than 2% of 198	0.318	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.27	PASS
275	10 - 60% of 198	21.5	PASS
365	1 - 100% of 198	2.78	PASS
441	0.1 - 24% of 442	15.4	PASS
442	50 - 200% of 198	62.9	PASS
443	15 - 24% of 442	20.3	PASS

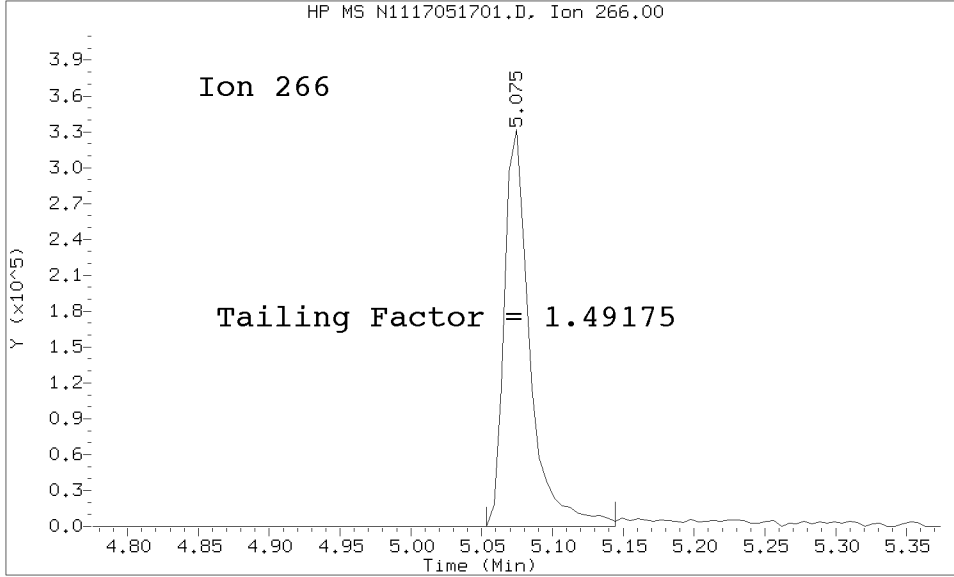
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SFE0225-TUN1	N1117051701.D	05/17/2017	8:41
Initial Cal Check	SFE0225-ICV1	N1117051702.D	05/17/2017	9:02
PG-GP-LTN-COC-170424	17D0421-03	N1117051703.D	05/17/2017	9:43
Calibration Check	SFE0225-CCV1	N1117051704.D	05/17/2017	10:19

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20170517.b/N1117051701.D/N1117051701.D
Method Used: \20170517.b\DFTPP.m Inst: nt11
Injection Date: 17-MAY-2017 08:41 Operator: VTS
Sample Info: SFE0225-TUN1 SFE0225-TUN1
Report Date: 05/17/2017 08:56



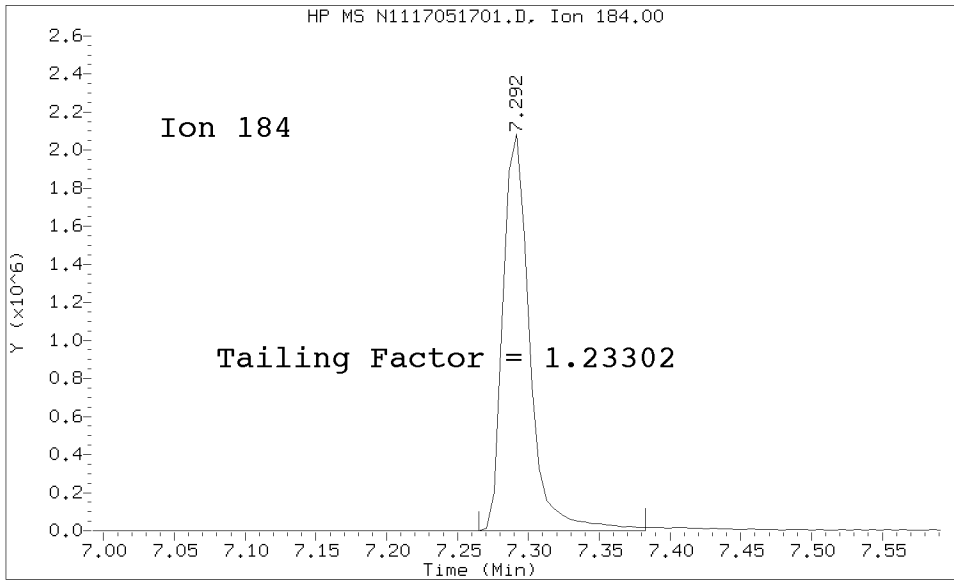
Datafile Analyzed: /20170517.b/N1117051701.D/N1117051701.D
Method Used: \20170517.b\DFTPP.m\sw846ddt.m Inst: nt11
Injection Date: 17-MAY-2017 08:41 Operator: VTS
Sample Info: SFE0225-TUN1
Report Date: 05/17/2017 08:56



Pentachlorophenol

=====
Exp. RT = 5.075
Found RT = 5.075

Tail Factor = 1.492 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.292
Found RT = 7.292

Tail Factor = 1.233 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4917492	2.000	PASS
Benzidine	1.2330199	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1368666			N/A
4,4-DDE	6407	0.5	20.0	PASS
4,4-DDD	51064	3.6	20.0	PASS
4,4-DDD + DDE	57471	4.0	20.0	PASS

Tuning Sample, nt11.i/20170517.b/N1117051701.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	36.49
68	Less than 2.00% of mass 69	0.49 (1.18)
69	Mass 69 relative abundance	41.21
70	Less than 2.00% of mass 69	0.16 (0.38)
127	10.00 - 80.00% of mass 198	48.69
197	Less than 2.00% of mass 198	0.32
199	5.00 - 9.00% of mass 198	8.27
275	10.00 - 60.00% of mass 198	21.51
365	Greater than 1.00% of mass 198	2.78
441	0.01 - 24.00% of mass 442	9.68 (15.39)
442	50.00 - 200.00% of mass 198	62.87
443	15.00 - 24.00% of mass 442	12.74 (20.27)

Data File: N1117051701.D
 Spectrum: Avg. Scans 307-309 (4.73), Background Scan 302
 Location of Maximum: 198.00
 Number of points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	675	109.00	1211	177.00	4410	245.00	6437
39.00	14778	110.00	166272	179.00	17120	246.00	9238
41.00	718	111.00	21184	180.00	11586	247.00	859
44.00	545	112.00	2385	181.00	4695	249.00	2282
49.00	832	116.00	2720	184.00	1576	255.00	247616
50.00	46192	117.00	40360	185.00	9263	256.00	38408
51.00	199616	118.00	3971	186.00	70016	257.00	3877
52.00	9384	122.00	4671	187.00	20328	258.00	13025
56.00	6014	123.00	5640	188.00	1772	265.00	4457
57.00	16696	124.00	3472	189.00	3610	273.00	9751
61.00	2141	125.00	2807	191.00	750	274.00	21432
62.00	2495	127.00	266368	192.00	5290	275.00	117648
63.00	8263	128.00	21128	193.00	5385	276.00	14843
64.00	953	129.00	100872	194.00	709	277.00	9162
65.00	4837	130.00	8643	196.00	14514	283.00	675
68.00	2660	131.00	783	197.00	1742	285.00	749
69.00	225472	134.00	2082	198.00	547072	293.00	2551
70.00	859	135.00	8750	199.00	45224	296.00	31072
73.00	796	136.00	2937	200.00	3315	297.00	3433
74.00	20552	137.00	3378	201.00	2692	303.00	3974
75.00	35920	141.00	10281	203.00	1663	315.00	3153
76.00	12252	142.00	4065	204.00	18816	316.00	1775
77.00	276992	143.00	2798	205.00	30944	323.00	10247
78.00	20160	146.00	801	206.00	123976	327.00	938
79.00	13092	147.00	4618	207.00	16664	334.00	7501
80.00	10822	148.00	9078	208.00	3167	335.00	1697
81.00	17800	149.00	1427	210.00	853	346.00	1616
82.00	6456	151.00	1590	211.00	5024	352.00	4263
83.00	5294	153.00	3190	216.00	1111	353.00	970
84.00	750	154.00	2421	217.00	30704	354.00	1374
85.00	1808	155.00	7199	218.00	4173	365.00	15218
86.00	4507	156.00	11368	221.00	27640	366.00	1166
87.00	2147	157.00	2089	222.00	2080	372.00	4516
91.00	5035	158.00	1154	223.00	7125	373.00	723
92.00	4000	159.00	963	224.00	68752	383.00	700
93.00	25680	160.00	3586	225.00	18064	402.00	881
94.00	1027	161.00	5716	226.00	1600	403.00	3791
96.00	951	162.00	746	227.00	24720	421.00	2323
98.00	16768	165.00	3383	228.00	3011	422.00	2172
99.00	16400	166.00	2933	229.00	5340	423.00	19408
100.00	717	167.00	20264	231.00	1643	424.00	3605
101.00	10852	168.00	9759	234.00	928	441.00	52936
103.00	3343	169.00	729	235.00	806	442.00	343936
104.00	4862	172.00	668	236.00	778	443.00	69720
105.00	6061	173.00	2262	237.00	1706	444.00	6225
106.00	2423	174.00	5967	242.00	3116		
107.00	80736	175.00	9954	243.00	3800		
108.00	12983	176.00	3025	244.00	56336		



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270D-SIM**

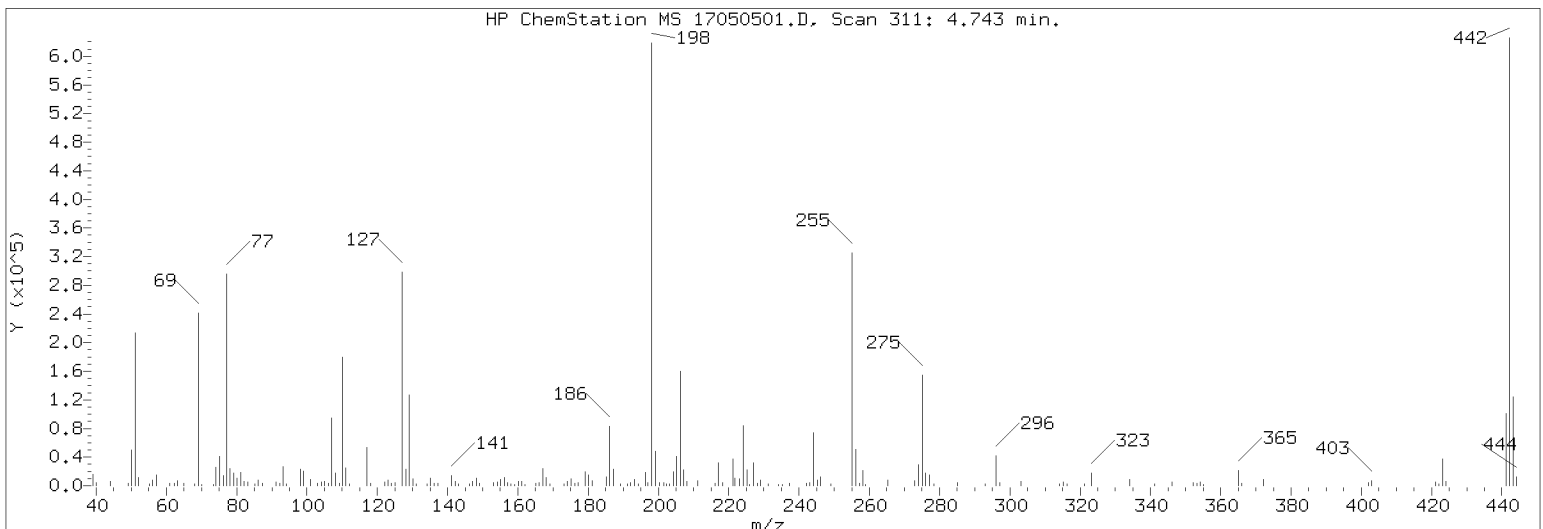
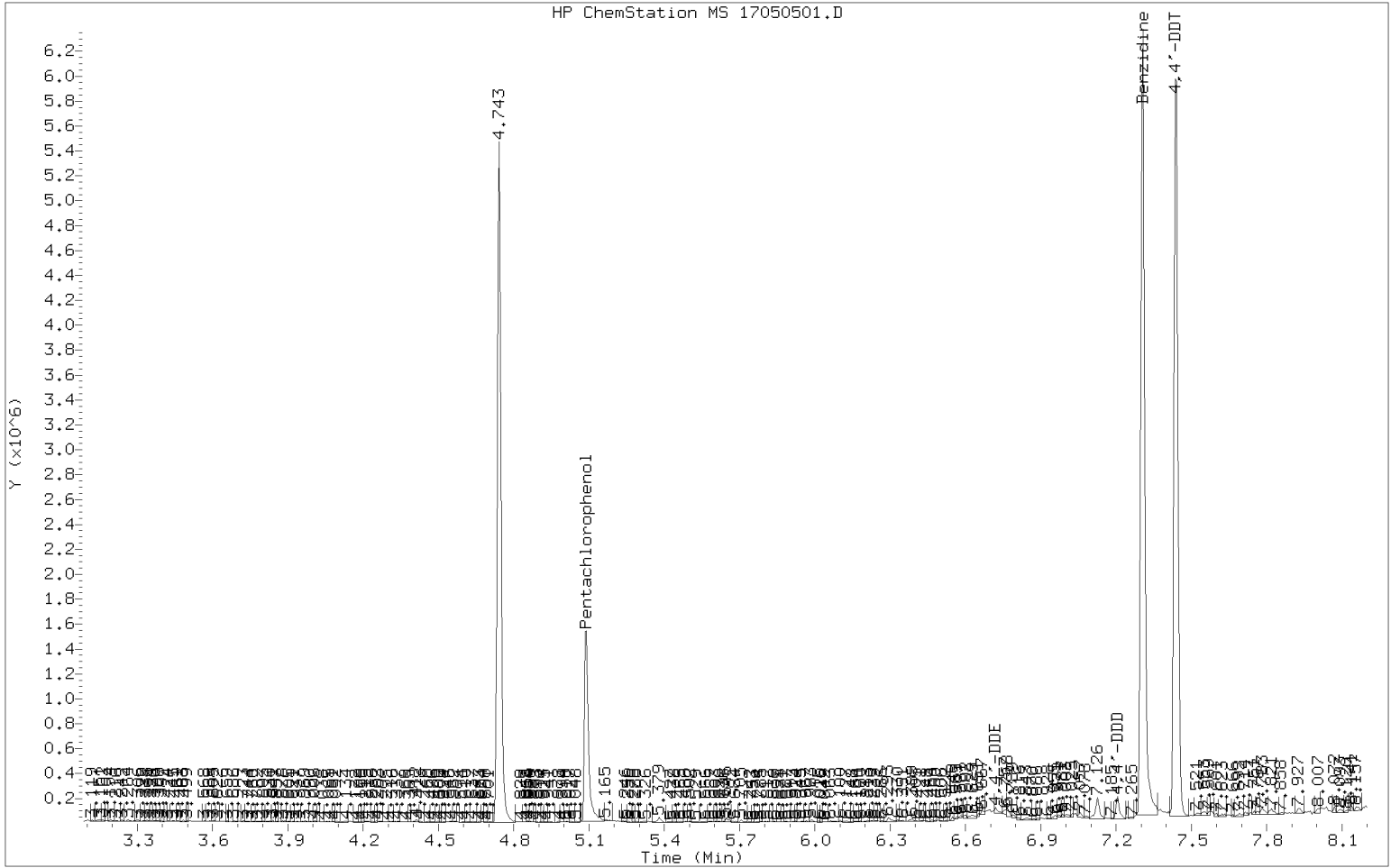
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Lab File ID:	<u>17050501.D</u>	Injection Date:	<u>05/05/17</u>
Instrument ID:	<u>NT11</u>	Injection Time:	<u>10:50</u>
Sequence:	<u>SFE0059</u>	Lab Sample ID:	<u>SFE0059-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10 - 80% of 198	35.2	PASS
68	Less than 2% of 69	0.834	PASS
69	Less than 100% of 198	39.2	PASS
70	Less than 2% of 69	0.344	PASS
127	10 - 80% of 198	49.5	PASS
197	Less than 2% of 198	0.481	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.91	PASS
275	10 - 60% of 198	23.8	PASS
365	1 - 100% of 198	3.23	PASS
441	0.1 - 24% of 442	15.6	PASS
442	50 - 200% of 198	96.3	PASS
443	15 - 24% of 442	19.3	PASS

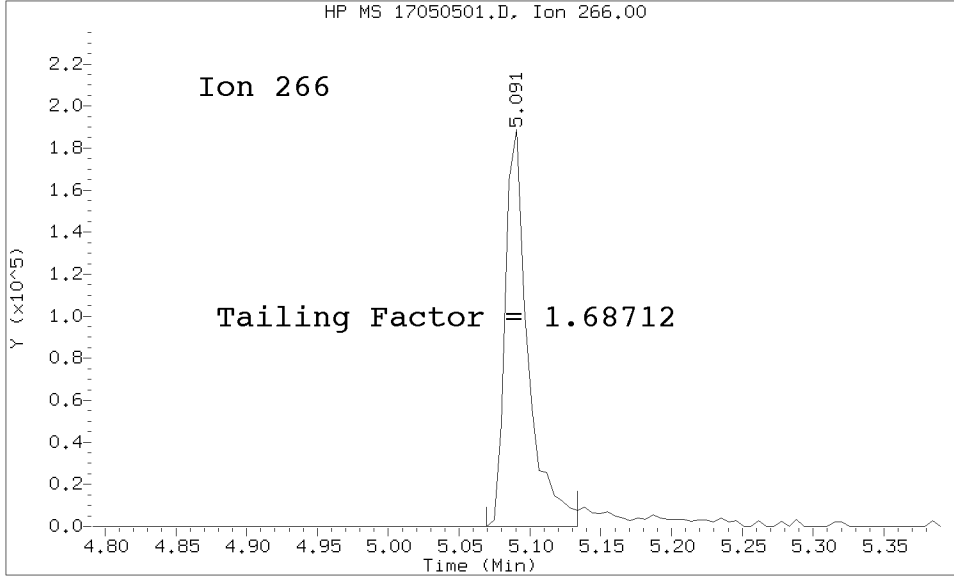
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SFE0059-TUN1	17050501.D	05/05/2017	10:50
Cal Standard	SFE0059-CAL4	17050503.D	05/05/2017	11:47
Initial Cal Check	SFE0059-ICV1	17050503ICV.D	05/05/2017	11:47
Cal Standard	SFE0059-CAL6	17050504.D	05/05/2017	12:23
Cal Standard	SFE0059-CAL1	17050505.D	05/05/2017	12:59
Cal Standard	SFE0059-CAL5	17050506.D	05/05/2017	13:35
Cal Standard	SFE0059-CAL2	17050507.D	05/05/2017	14:11
Cal Standard	SFE0059-CAL3	17050508.D	05/05/2017	14:47
Secondary Cal Check	SFE0059-SCV1	17050509.D	05/05/2017	15:23
Blank	BFD0748-BLK1	17050510.D	05/05/2017	15:59
LCS	BFD0748-BS1	17050511.D	05/05/2017	16:36
MRL Check	BFD0748-MRL1	17050512.D	05/05/2017	17:12
MRL Check	BFD0748-MRL2	17050513.D	05/05/2017	17:47
ZZZZZ	17D0423-16	17050514.D	05/05/2017	18:24
ZZZZZ	17D0423-17	17050515.D	05/05/2017	19:00
ZZZZZ	17D0423-18	17050516.D	05/05/2017	19:37
Blank	BFE0047-BLK1	17050517.D	05/05/2017	20:13
LCS	BFE0047-BS1	17050518.D	05/05/2017	20:49
ZZZZZ	17D0446-01	17050519.D	05/05/2017	21:25
ZZZZZ	17D0446-02	17050520.D	05/05/2017	22:01
ZZZZZ	17D0446-03	17050521.D	05/05/2017	22:37
Calibration Check	SFE0059-CCV1	17050525.D	05/06/2017	1:01

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20170505.b/17050501.D/17050501.D
Method Used: \20170505.b\DFTPP.m Inst: nt11
Injection Date: 05-MAY-2017 10:50 Operator: VTS
Sample Info: SFE0059-TUN1 SFE0059-TUN1
Report Date: 05/06/2017 09:58



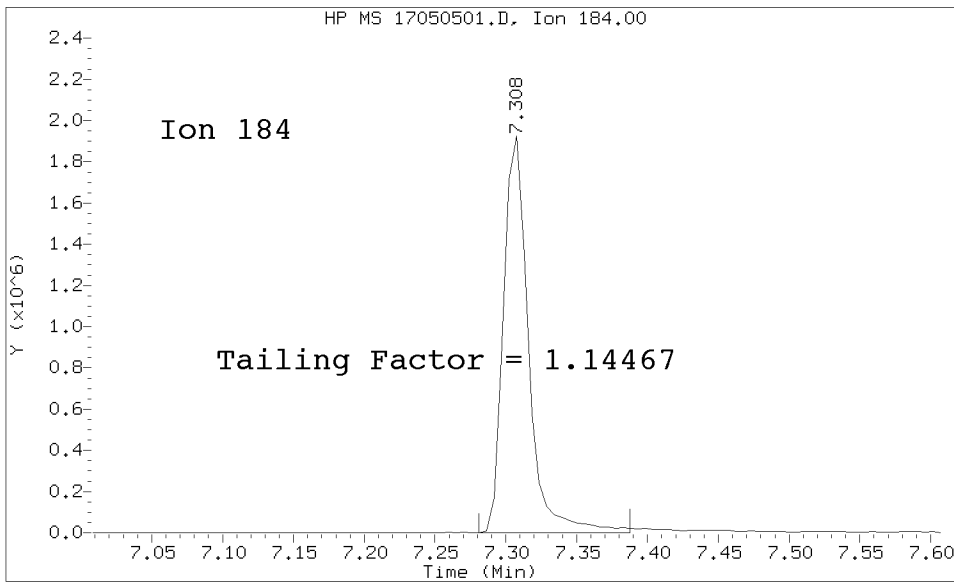
Datafile Analyzed: /20170505.b/17050501.D/17050501.D
Method Used: \20170505.b\DFTPP.m\sw846ddt.m Inst: nt11
Injection Date: 05-MAY-2017 10:50 Operator: VTS
Sample Info: SFE0059-TUN1
Report Date: 05/06/2017 09:58



Pentachlorophenol

=====
Exp. RT = 5.091
Found RT = 5.091

Tail Factor = 1.687 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.308
Found RT = 7.308

Tail Factor = 1.145 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6871239	2.000	PASS
Benzidine	1.1446674	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1104241			N/A
4,4-DDE	4926	0.4	20.0	PASS
4,4-DDD	42304	3.7	20.0	PASS
4,4-DDD + DDE	47230	4.1	20.0	PASS

Tuning Sample, nt11.i/20170505.b/17050501.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	35.22
68	Less than 2.00% of mass 69	0.33 (0.83)
69	Mass 69 relative abundance	39.19
70	Less than 2.00% of mass 69	0.13 (0.34)
127	10.00 - 80.00% of mass 198	49.49
197	Less than 2.00% of mass 198	0.48
199	5.00 - 9.00% of mass 198	7.91
275	10.00 - 60.00% of mass 198	23.81
365	Greater than 1.00% of mass 198	3.23
441	0.01 - 24.00% of mass 442	14.99 (15.57)
442	50.00 - 200.00% of mass 198	96.27
443	15.00 - 24.00% of mass 442	18.55 (19.26)

Data File: 17050501.D
 Spectrum: Avg. Scans 310-312 (4.74), Background Scan 304
 Location of Maximum: 198.00
 Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1236	112.00	1566	185.00	9149	257.00	2989
39.00	13436	116.00	1914	186.00	66424	258.00	15186
40.00	258	117.00	39216	187.00	18264	259.00	1427
41.00	906	118.00	2387	188.00	1142	265.00	5188
49.00	2138	122.00	5113	189.00	2689	273.00	6560
50.00	43416	123.00	6236	191.00	1471	274.00	24888
51.00	178304	124.00	1797	192.00	4349	275.00	120552
52.00	10100	125.00	2821	193.00	5762	276.00	16528
56.00	5698	127.00	250560	194.00	1508	277.00	9944
57.00	13478	128.00	19920	196.00	12613	278.00	1529
61.00	3454	129.00	97792	197.00	2434	285.00	2523
62.00	3257	130.00	7940	198.00	506304	293.00	1663
63.00	6540	131.00	2768	199.00	40064	296.00	32816
65.00	4109	134.00	2079	200.00	2916	297.00	4226
68.00	1654	135.00	8147	201.00	2227	303.00	4798
69.00	198400	136.00	3427	202.00	945	314.00	1837
70.00	683	137.00	2044	203.00	2577	315.00	3640
73.00	679	141.00	11103	204.00	15838	316.00	1031
74.00	20576	142.00	3708	205.00	29584	321.00	776
75.00	34608	143.00	2791	206.00	124104	323.00	13214
76.00	11304	146.00	1990	207.00	17288	324.00	704
77.00	250112	147.00	4855	208.00	5163	327.00	695
78.00	19752	148.00	11069	210.00	677	334.00	7921
79.00	14456	149.00	2481	211.00	5281	335.00	1639
80.00	11811	151.00	776	216.00	2375	341.00	1617
81.00	16536	153.00	3696	217.00	27072	346.00	2667
82.00	3382	154.00	3383	218.00	3669	352.00	4270
83.00	5555	155.00	6161	221.00	29824	353.00	2609
84.00	1086	156.00	8697	222.00	5540	354.00	4034
85.00	2102	157.00	3255	223.00	7501	355.00	723
86.00	5970	158.00	1917	224.00	68744	365.00	16343
87.00	1943	159.00	734	225.00	16744	366.00	2987
91.00	3232	160.00	4019	226.00	684	372.00	6405
92.00	2844	161.00	5433	227.00	26128	373.00	1245
93.00	23848	162.00	743	228.00	2874	383.00	959
94.00	2045	165.00	3319	229.00	4525	390.00	728
95.00	809	166.00	2515	231.00	2523	402.00	2432
98.00	17616	167.00	19352	234.00	695	403.00	5273
99.00	16287	168.00	9450	235.00	1433	421.00	3849
101.00	7969	169.00	1465	237.00	1882	422.00	3513
103.00	3484	172.00	1086	242.00	3299	423.00	27408
104.00	4978	173.00	2147	243.00	3672	424.00	5324
105.00	5375	174.00	4567	244.00	54952	441.00	75904
106.00	1794	175.00	8703	245.00	8167	442.00	487424
107.00	77152	176.00	2935	246.00	8890	443.00	93896
108.00	14163	177.00	3648	247.00	907	444.00	9310
109.00	3586	179.00	16520	249.00	819		
110.00	152640	180.00	12862	255.00	260544		
111.00	20944	181.00	5140	256.00	38776		

+-----+-----+-----+-----+



INITIAL CALIBRATION DATA

EPA 8270D-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	17D0421
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	AE00020	Instrument:	NT11
Calibration Date:	05/05/2017 8:30	Column (1):	RXi-17Sil-MS

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Naphthalene	1.074834	11.1			RSD (20)	
2-Methylnaphthalene	0.9913938	4.7			RSD (20)	
Acenaphthylene	2.344195	5.5			RSD (20)	
Acenaphthene	1.532899	5.3			RSD (20)	
Dibenzofuran	2.114962	8.6			RSD (20)	
Fluorene	1.649311	4.6			RSD (20)	
Phenanthrene	1.488808	10.2			RSD (20)	
Anthracene	1.466748	12.0			RSD (20)	
Fluoranthene	1.430754	9.1			RSD (20)	
Pyrene	1.810633	5.7			RSD (20)	
Benzo(a)anthracene	1.424186	4.1			RSD (20)	
Chrysene	1.469852	4.9			RSD (20)	
Benzo(b)fluoranthene	1.249741	3.5			RSD (20)	
Benzo(k)fluoranthene	1.238924	2.5			RSD (20)	
Carbazole	1.707277	11.3			RSD (20)	
Benzo(j)fluoranthene	1.160834	3.1			RSD (20)	
Benzo(a)pyrene	1.130516	2.3			RSD (20)	
Indeno(1,2,3-cd)pyrene	1.192515	3.4			RSD (20)	
Dibenzo(a,h)anthracene	0.9554681	4.8			RSD (20)	
Benzo(g,h,i)perylene	1.020111	2.3			RSD (20)	
1-Methylnaphthalene	0.9587499	4.5			RSD (20)	
Perylene	1.164895	2.3			RSD (20)	
Benzo(e)pyrene	1.161765	2.6			RSD (20)	
Benzofluoranthenes, Total	1.2165	3.0			RSD (20)	
2-Chloronaphthalene	2.078588	5.6			RSD (20)	
2-Methylnaphthalene-d10	0.8570707	4.1			RSD (20)	
Dibenzo[a,h]anthracene-d14	0.7460398	3.1			RSD (20)	
Fluoranthene-d10	0.9454756	5.8			RSD (20)	



ANALYSIS SEQUENCE

SFE0059

Instrument: NT11 Element Column ID: E006481
Calibration ID: AE00020 Tune File: 170505.U
EM Voltage: 2071

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	
SFE0059-TUN1	DFTPP	QC		1	E007446		
SFE0059-CAL4	Cal Standard	QC		2	E006577	F004122	
SFE0059-CAL6	Cal Standard	QC		3	E006579	F004122	
SFE0059-CAL1	Cal Standard	QC		4	E006574	F004122	
SFE0059-CAL5	Cal Standard	QC		5	E006578	F004122	
SFE0059-CAL2	Cal Standard	QC		6	E006575	F004122	
SFE0059-CAL3	Cal Standard	QC		7	E006576	F004122	
SFE0059-SCV1	SIMPNA SCV	QC		8	F004123	F004122	
SFE0059-ICV1	Initial Cal Check	QC		9	E006577	F004122	
BFD0748-BLK1	Blank	QC		10		F004122	
BFD0748-BS1	LCS	QC		11		F004122	
BFD0748-MRL1	MRL	QC		12		F004122	
BFD0748-MRL2	LOD	QC		13		F004122	
17D0423-16	MW-9S-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	14		F004122	
17D0423-17	MW-9D-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	15		F004122	
17D0423-18	MW-16S-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	16		F004122	
BFE0047-BLK1	Blank	QC		17		F004122	
BFE0047-BS1	LCS	QC		18		F004122	
17D0446-01	MAF-MW-BG-01-20170426	SIM PAH Low (0.01 ug/L - 0.	E 01	19		F004122	
17D0446-02	MAF-MW-P-01-20170426	SIM PAH Low (0.01 ug/L - 0.	E 01	20		F004122	
17D0446-03	MAF-MW-P-02-20170427	SIM PAH Low (0.01 ug/L - 0.	E 01	21		F004122	
SFE0059-CCV1	SIM PAH 250	QC		22	E006577	F004122	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientId	DF	1	INO	ISTDS	FOUND	1						
1	1050	17050501.D	SFE0059-TUN1		1	INO	ISTDS	FOUND	1						
2	1110	17050502.D	E002858		1	8.50	340246	11.54	150664	14.23	261399	18.99	200906	22.18	222794
3	1147	17050503.D	SFE0059-CAL4		1	8.50	371325	11.54	154428	14.23	256956	18.99	208629	22.18	225431
4	1147	17050503ICV.D	SFE0059-CAL4		1	8.50	371325	11.54	154428	14.23	256956	18.99	208629	22.18	225431
5	1223	17050504.D	SFE0059-CAL6		1	8.50	371198	11.54	162579	14.23	285659	18.99	210433	22.18	228317
6	1259	17050505.D	SFE0059-CAL1		1	8.50	362430	11.54	142581	14.23	236545	18.99	197257	22.18	213968
7	1335	17050506.D	SFE0059-CAL5		1	8.50	361073	11.54	156339	14.23	261454	18.99	200348	22.18	216363
8	1411	17050507.D	SFE0059-CAL2		1	8.50	358455	11.54	145440	14.23	240109	18.99	202079	22.18	214583
9	1447	17050508.D	SFE0059-CAL3		1	8.50	353401	11.54	145861	14.23	238193	18.99	190128	22.18	206951
10	1523	17050509.D	SFE0059-SCV1		1	8.50	353470	11.54	145863	14.23	234202	18.99	189686	22.18	205114
11	1559	17050510.D	BFD0748-BLK1		1	8.50	364557	11.54	148171	14.23	246765	18.99	186603	22.18	207414
12	1636	17050511.D	BFD0748-BS1		1	8.50	365532	11.53	155718	14.23	252417	18.99	193816	22.18	211193
13	1712	17050512.D	BFD0748-MRL1		1	8.50	357350	11.54	145354	14.23	240503	18.99	183698	22.18	200322
14	1747	17050513.D	BFD0748-MRL2		1	8.50	350679	11.54	143948	14.23	232075	18.99	177031	22.18	192510
15	1824	17050514.D	17D0423-16		1	8.50	387471	11.54	166801	14.23	289100	18.99	204827	22.18	235384
16	1900	17050515.D	17D0423-17		1	8.50	413815	11.54	176102	14.23	305918	18.99	209895	22.18	234789
17	1937	17050516.D	17D0423-18		1	8.50	403371	11.54	206745	14.23	310361	18.99	214026	22.18	234242
18	2013	17050517.D	BFE0047-BLK1		1	8.50	370404	11.54	153131	14.23	252409	18.99	195024	22.18	215991
19	2049	17050518.D	BFE0047-BS1		1	8.50	360144	11.53	157816	14.22	252225	18.99	197830	22.18	212024
20	2125	17050519.D	17D0446-01		1	8.50	357142	11.53	148433	14.23	244374	18.99	186556	22.18	203965

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientID	DF										
21	17050520.D	17D0446-02		1	8.50	357524	11.53	152177	14.22	242039	18.99	185139	22.18	203351
22	17050521.D	17D0446-03		1	8.50	355615	11.53	153966	14.23	245258	18.99	184548	22.18	200894
23	17050522.D	17D0446-04		1	8.50	362660	11.53	155980	14.23	248223	18.99	188543	22.18	206338
24	17050523.D	17D0446-05		1	8.50	385285	11.53	161144	14.22	261837	18.99	190982	22.17	209035
25	17050524.D	17D0446-06		1	8.50	363805	11.53	156031	14.22	249360	18.99	185091	22.17	201965
26	17050525.D	SFE0059-CCV1		1	8.50	371666	11.53	155991	14.22	252744	18.99	203647	22.17	218913

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

ARI Job No.: SFE0 Method: DFPP.m Instrument: nt11.i Date: 05-MAY-2017

Time Filename LabID ClientId DF Manually Integrated Compounds

1050	17050501.D	SFE0059-TUN1		1	NO MANUAL INTEGRATION
1110	17050502.D	E002858		1	NO MANUAL INTEGRATION
1147	17050503.D	SFE0059-CAL4		1	NO MANUAL INTEGRATION
1147	17050503ICV.D	SFE0059-CAL4		1	NO MANUAL INTEGRATION
1223	17050504.D	SFE0059-CAL6		1	NO MANUAL INTEGRATION
1259	17050505.D	SFE0059-CAL1		1	2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene, Anthracene-d10, Fluorene-d10,
1335	17050506.D	SFE0059-CAL5		1	NO MANUAL INTEGRATION
1411	17050507.D	SFE0059-CAL2		1	Biphenyl,
1447	17050508.D	SFE0059-CAL3		1	NO MANUAL INTEGRATION
1523	17050509.D	SFE0059-SCV1		1	NO MANUAL INTEGRATION
1559	17050510.D	BFD0748-BLK1		1	NO MANUAL INTEGRATION
1636	17050511.D	BFD0748-BS1		1	NO MANUAL INTEGRATION
1712	17050512.D	BFD0748-MRL1		1	Benzo(e)pyrene, 2,3,5-Trimethylnaphthalene,
1747	17050513.D	BFD0748-MRL2		1	Naphthalene, Benzo(e)pyrene, Benzo(b)thiophene, 2-Chloronaphthalene, 2,6-Dimethylnaphthalene, 2,3,5-Trimethylnaphthalene, 1-Methylphenanthrene, Dibenzothiophene, Carbazole,
1824	17050514.D	17D0423-16		1	Acenaphthylene, Benzo(a)anthracene, Acenaphthene-d10, 2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene,
1908	17050515.D	17D0423-17		1	Acenaphthylene, Acenaphthene-d10, 2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene,
193	17050516.D	17D0423-18		1	Acenaphthylene, 1-Methylnaphthalene, 2,3,5-Trimethylnaphthalene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2013	17050517.D	BFE0047-BLK1	1	NO	NO MANUAL INTEGRATION
2049	17050518.D	BFE0047-BS1	1	NO	NO MANUAL INTEGRATION
2125	17050519.D	17D0446-01	1	NO	NO MANUAL INTEGRATION
2201	17050520.D	17D0446-02	1	NO	NO MANUAL INTEGRATION
2237	17050521.D	17D0446-03	1	NO	NO MANUAL INTEGRATION
2313	17050522.D	17D0446-04	1	NO	NO MANUAL INTEGRATION
2349	17050523.D	17D0446-05	1	NO	NO MANUAL INTEGRATION
0025	17050524.D	17D0446-06	1	Acenaphthene,	
0101	17050525.D	SFE0059-CCV1	1	NO	NO MANUAL INTEGRATION

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2017 11:47
 End Cal Date : 05-MAY-2017 14:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt11.i\20170505.b\lowsim.m
 Last Edit : 06-May-2017 07:03 nt11.i
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem3\nt11.i\20170505.b\17050505.D
 Level 2: \\target\share\chem3\nt11.i\20170505.b\17050507.D
 Level 3: \\target\share\chem3\nt11.i\20170505.b\17050508.D
 Level 4: \\target\share\chem3\nt11.i\20170505.b\17050503.D
 Level 5: \\target\share\chem3\nt11.i\20170505.b\17050506.D
 Level 6: \\target\share\chem3\nt11.i\20170505.b\17050504.D

Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
2 Naphthalene	1.27412	1.10066	1.09497	1.04581	1.02360	0.90986	1.07483	11.124
3 Benzo(b) thiophene	0.88332	0.81753	0.85664	0.87378	0.85371	0.77497	0.84332	4.787
5 2-Methylnaphthalene	1.01575	1.00603	1.02169	0.99911	1.00905	0.89672	0.99139	4.744
6 1-Methylnaphthalene	0.97724	0.98313	0.98658	0.96131	0.97267	0.87157	0.95875	4.549
7 2-Chloronaphthalene	2.20997	2.04398	2.12576	2.13231	2.08915	1.87035	2.07859	5.571
8 Biphenyl	3.68282	3.03487	3.93373	2.83481	2.74804	2.43921	3.11225	18.564
9 2,6-Dimethylnaphthalene	2.26131	2.09549	2.31741	2.21828	2.20068	1.99259	2.18096	5.412
10 Acenaphthylene	2.43188	2.44854	2.37118	2.38242	2.33708	2.09408	2.34420	5.509
12 Acenaphthene	1.58212	1.62343	1.53763	1.54069	1.53117	1.38235	1.53290	5.329
13 Dibenzofuran	2.23522	2.36422	2.13188	2.09308	2.04032	1.82505	2.11496	8.641
14 2,3,5-Trimethylnaphthalene	1.17309	1.18086	1.17096	1.25135	1.24500	1.16825	1.19825	3.251
16 Fluorene	1.72477	1.69860	1.61792	1.67120	1.67075	1.51261	1.64931	4.596
17 Dibenzothiophene	1.07844	1.08274	1.05659	1.06044	1.03160	0.89839	1.03470	6.689
19 Phenanthrene	1.63191	1.58976	1.54740	1.51394	1.44318	1.20666	1.48881	10.249
21 Anthracene	1.65296	1.61252	1.55148	1.42831	1.37494	1.18027	1.46675	12.007
22 Carbazole	1.95582	1.82575	1.77948	1.67480	1.60748	1.40033	1.70728	11.305
23 1-Methylphenanthrene	1.38688	1.38149	1.36630	1.41231	1.37240	1.17051	1.34831	6.567
25 Fluoranthene	1.53501	1.52083	1.47716	1.47142	1.39796	1.18215	1.43075	9.149
26 Pyrene	1.92409	1.84110	1.86055	1.79356	1.82436	1.62014	1.81063	5.689
27 Benzo(a)anthracene	1.49794	1.41760	1.43090	1.42193	1.45474	1.32199	1.42419	4.083
29 Chrysene	1.53090	1.46677	1.52702	1.46442	1.49416	1.33583	1.46985	4.867
30 Benzo(b)fluoranthene	1.26851	1.27738	1.27241	1.22105	1.28568	1.17342	1.24974	3.501
31 Benzo(k)fluoranthene	1.24579	1.24783	1.24144	1.23213	1.28086	1.18549	1.23892	2.499
32 Benzo(j)fluoranthene	1.15615	1.18280	1.18245	1.13987	1.20063	1.10310	1.16083	3.064
34 Benzo(e)pyrene	1.16989	1.17586	1.17021	1.14427	1.19810	1.11225	1.16177	2.557
35 Benzo(a)pyrene	1.11493	1.14257	1.11953	1.13673	1.17217	1.09717	1.13052	2.305
37 Perylene	1.17541	1.17398	1.16374	1.15554	1.19982	1.12088	1.16490	2.252
39 Dibenzo(a,h)anthracene	0.89284	0.93349	0.93990	0.95808	1.02575	0.98273	0.95547	4.759

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2017 11:47
 End Cal Date : 05-MAY-2017 14:47
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt11.i\20170505.b\lowsim.m
 Last Edit : 06-May-2017 07:03 nt11.i
 Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
40 Indeno(1,2,3-cd)pyrene	1.14643	1.17139	1.17145	1.18940	1.26209	1.21433	1.19252	3.425
41 Benzo(g,h,i)perylene	1.03492	1.01440	1.00512	0.99810	1.06072	1.00741	1.02011	2.308
\$ 4 2-Methylnaphthalene-d10	0.87780	0.86756	0.88028	0.85704	0.87261	0.78714	0.85707	4.112
\$ 15 Fluorene-d10	1.02805	0.99673	0.94968	0.99874	0.98136	0.93819	0.98213	3.402
\$ 20 Anthracene-d10	1.13264	1.13937	1.03512	1.03159	0.98821	0.86566	1.03210	9.809
\$ 24 Fluoranthene-d10	0.97199	0.98823	0.95694	0.97340	0.94525	0.83704	0.94548	5.832
\$ 33 Benzo(e)pyrene-d12	1.07558	1.06760	1.05374	1.02296	1.07344	0.98827	1.04693	3.312
\$ 38 Dibenzo(a,h)anthracene-d14	0.71740	0.74395	0.73803	0.74205	0.78879	0.74602	0.74604	3.133



Calibration Report

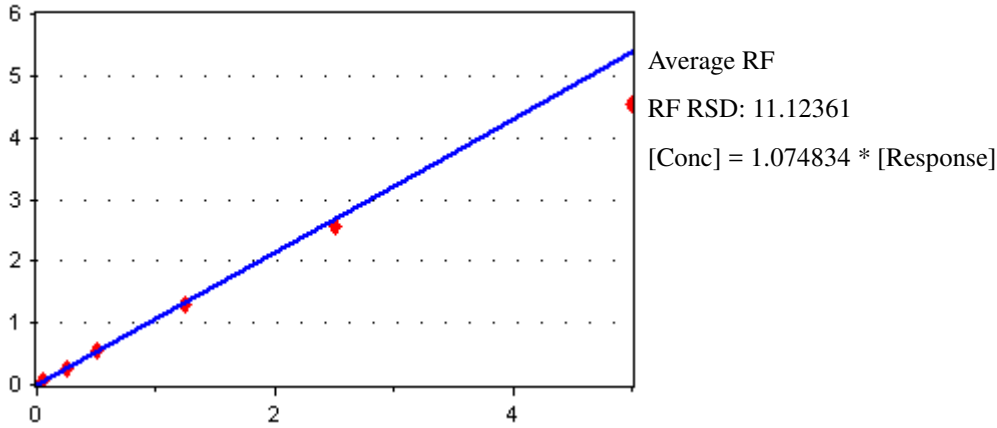
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

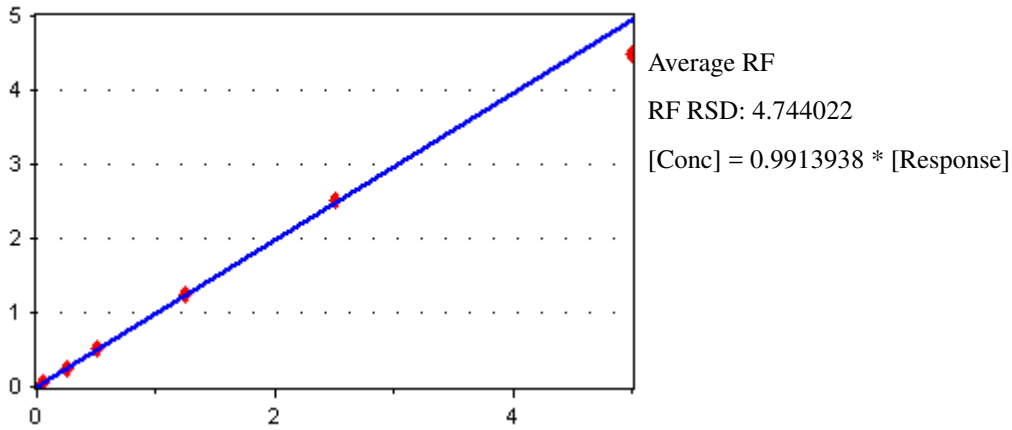
Naphthalene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Naphthalene



2-Methylnaphthalene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 2-Methylnaphthalene



Acenaphthylene



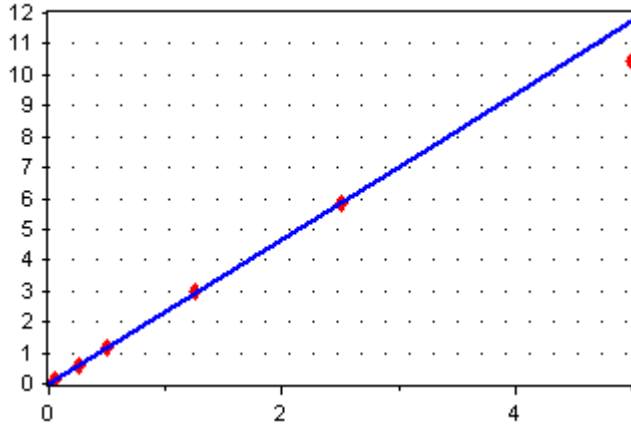
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0)

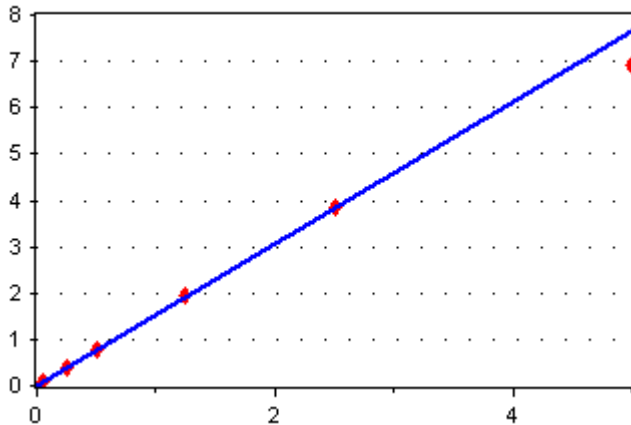
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Acenaphthylene



Average RF
RF RSD: 5.508622
[Conc] = 2.344195 * [Response]

Acenaphthene

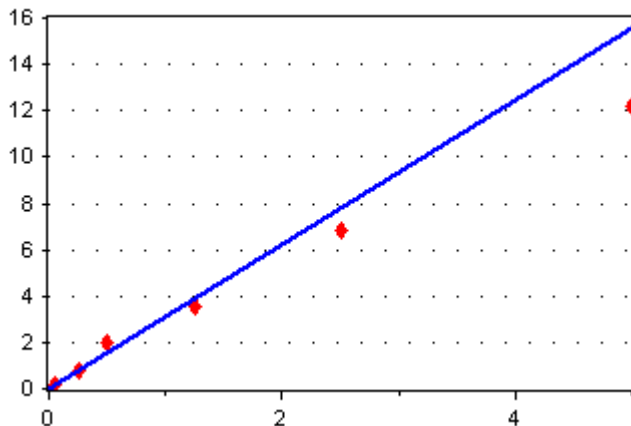
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Acenaphthene



Average RF
RF RSD: 5.329377
[Conc] = 1.532899 * [Response]

Biphenyl

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Biphenyl



Average RF
RF RSD: 18.56373
[Conc] = 3.112247 * [Response]



Calibration Report

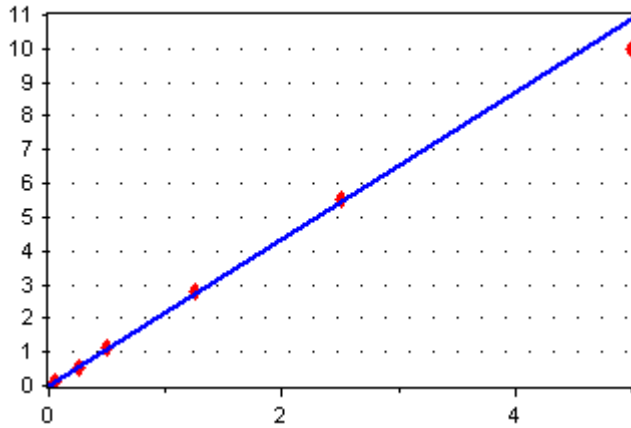
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

2,6-Dimethylnaphthalene

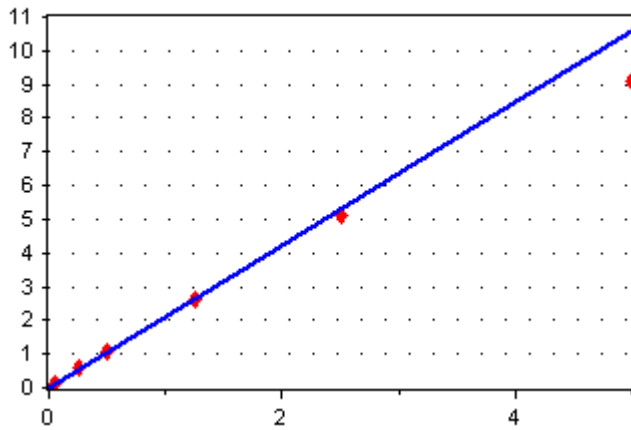
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 2,6-Dimethylnaphtha



Average RF
RF RSD: 5.411539
[Conc] = 2.18096 * [Response]

Dibenzofuran

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Dibenzofuran



Average RF
RF RSD: 8.640523
[Conc] = 2.114962 * [Response]

Fluorene



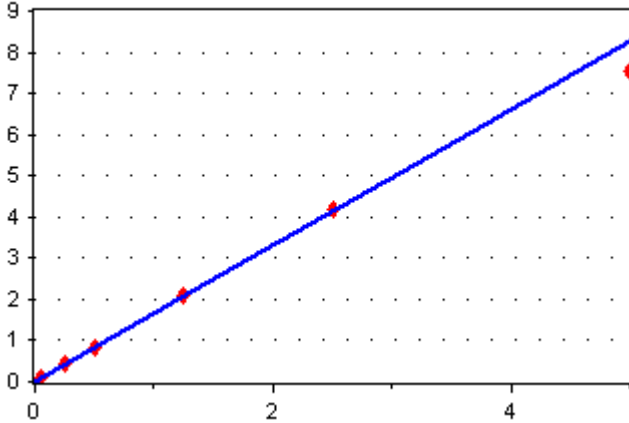
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

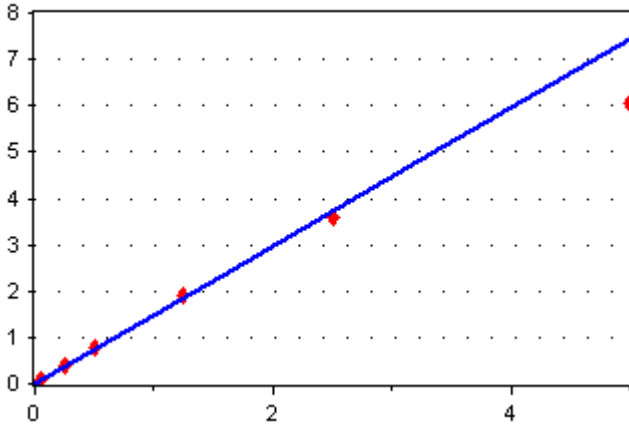
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Fluorene



Average RF
RF RSD: 4.596303
[Conc] = 1.649311 * [Response]

Phenanthrene

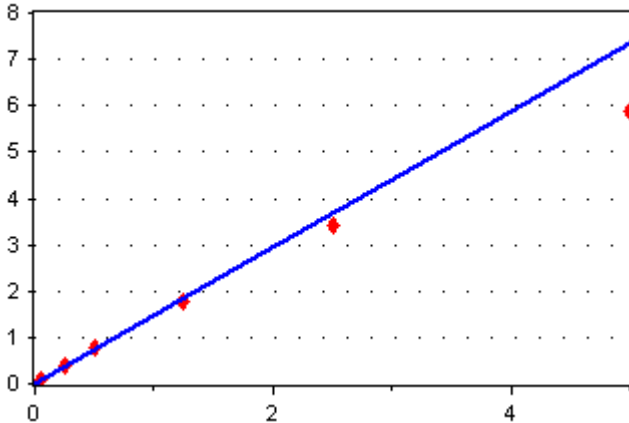
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Phenanthrene



Average RF
RF RSD: 10.24945
[Conc] = 1.488808 * [Response]

Anthracene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Anthracene



Average RF
RF RSD: 12.00698
[Conc] = 1.466748 * [Response]



Calibration Report

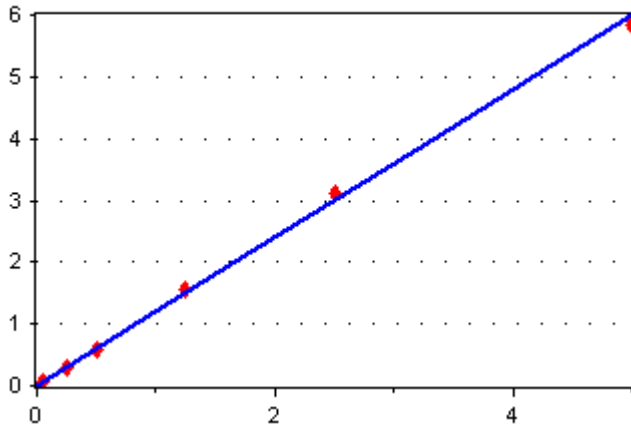
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

2,3,5-Trimethylnaphthalene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 2,3,5-Trimethylnaphthe



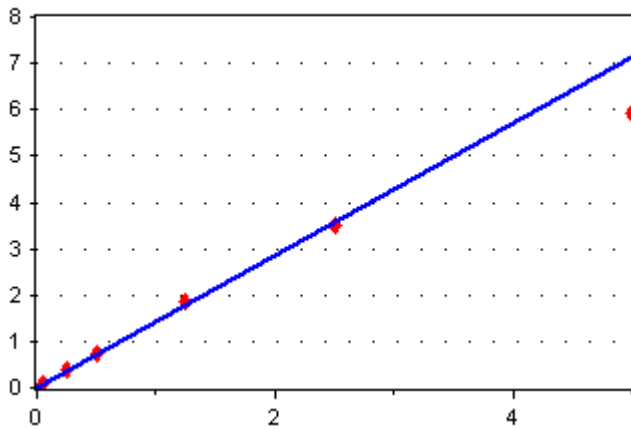
Average RF

RF RSD: 3.250529

$$[\text{Conc}] = 1.198253 * [\text{Response}]$$

Fluoranthene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Fluoranthene



Average RF

RF RSD: 9.148733

$$[\text{Conc}] = 1.430754 * [\text{Response}]$$

Pyrene



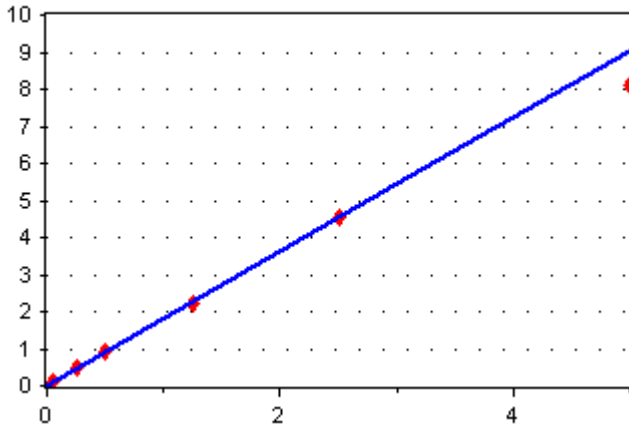
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

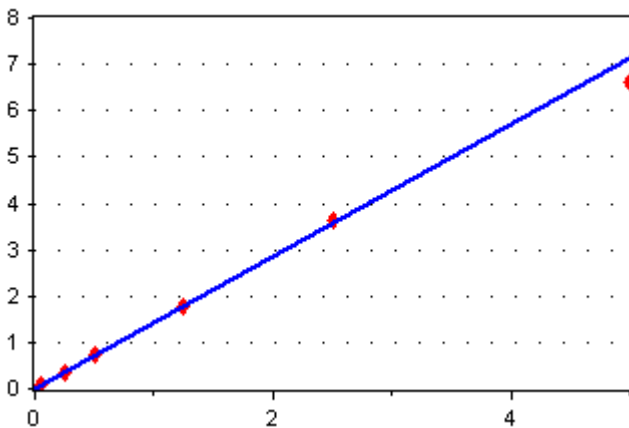
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Pyrene



Average RF
RF RSD: 5.689456
[Conc] = 1.810633 * [Response]

Benzo(a)anthracene

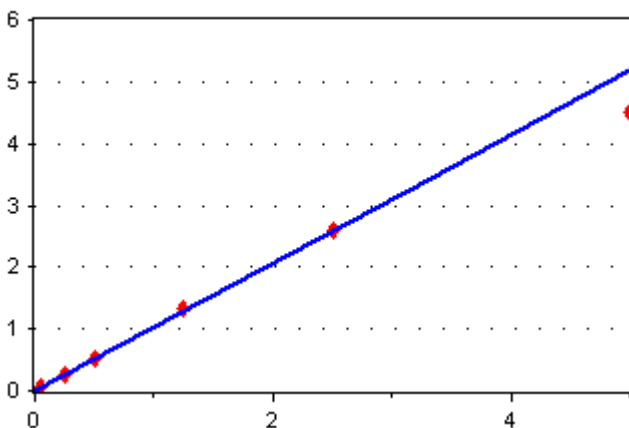
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(a)anthracene



Average RF
RF RSD: 4.083461
[Conc] = 1.424186 * [Response]

Dibenzothiophene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Dibenzothiophene



Average RF
RF RSD: 6.689312
[Conc] = 1.034701 * [Response]



Calibration Report

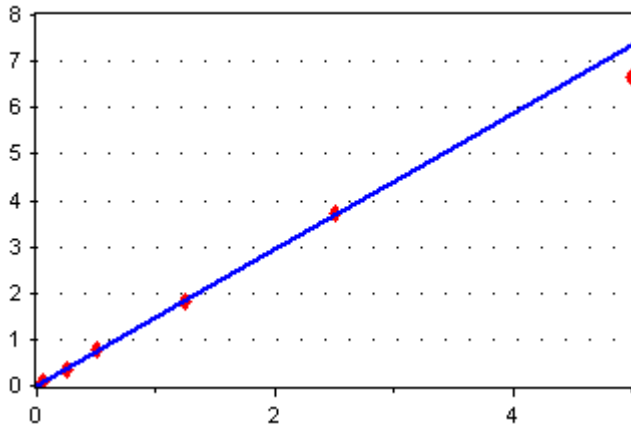
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

Chrysene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Chrysene



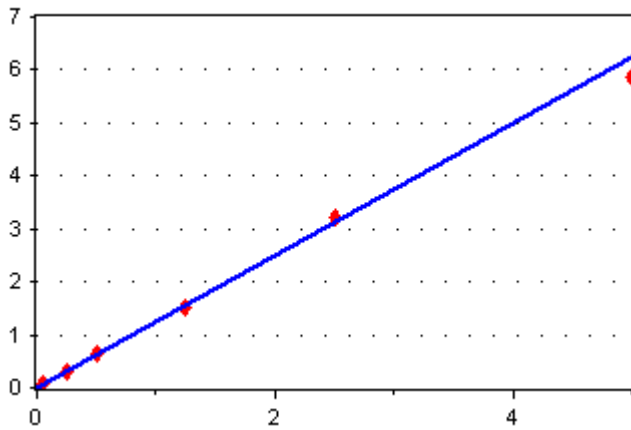
Average RF

RF RSD: 4.866836

$$[\text{Conc}] = 1.469852 * [\text{Response}]$$

Benzo(b)fluoranthene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(b)fluoranthene



Average RF

RF RSD: 3.500541

$$[\text{Conc}] = 1.249741 * [\text{Response}]$$

Benzo(k)fluoranthene



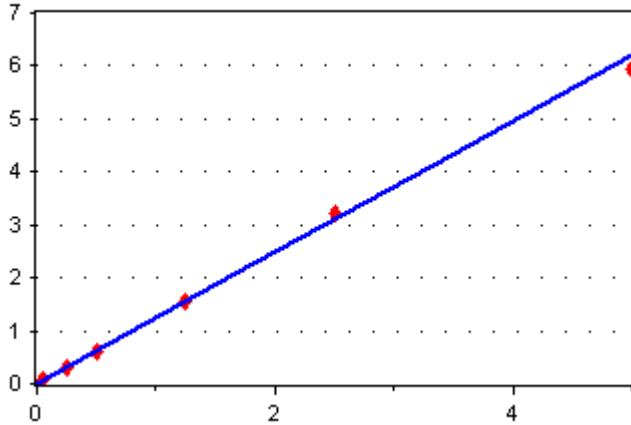
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

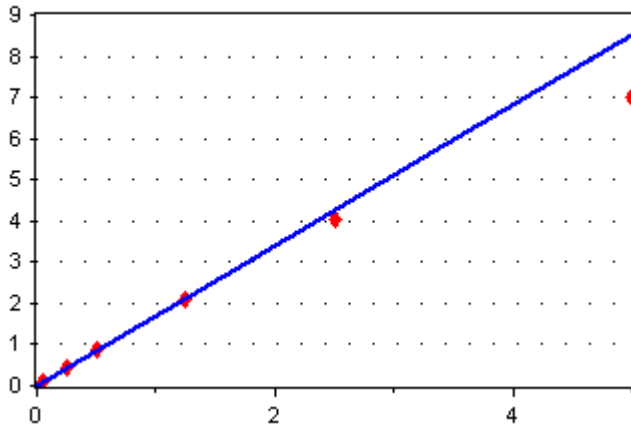
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(k)fluoranthene



Average RF
RF RSD: 2.498962
[Conc] = 1.238924 * [Response]

Carbazole

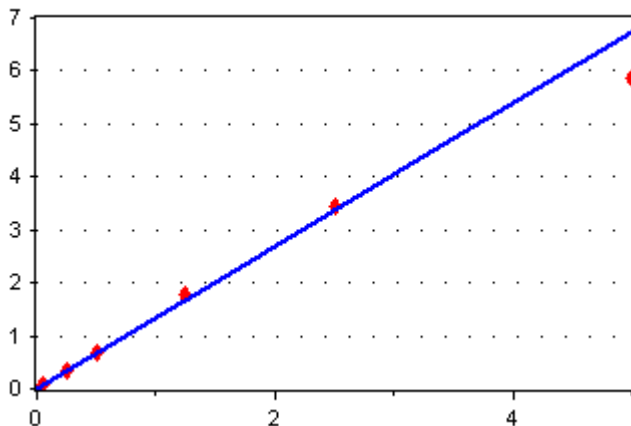
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Carbazole



Average RF
RF RSD: 11.30489
[Conc] = 1.707277 * [Response]

1-Methylphenanthrene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 1-Methylphenanthrene



Average RF
RF RSD: 6.566957
[Conc] = 1.348315 * [Response]



Calibration Report

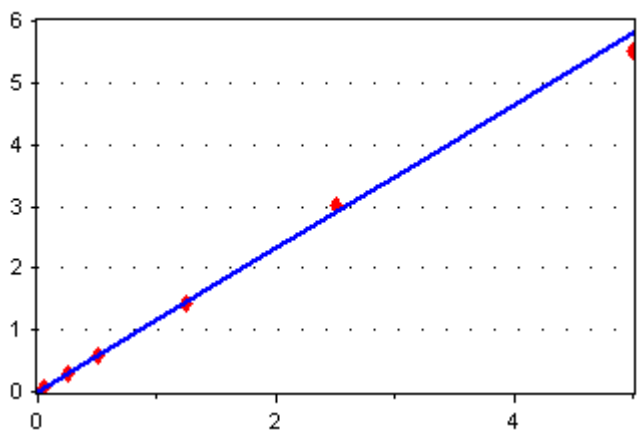
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

Benzo(j)fluoranthene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(j)fluoranthene



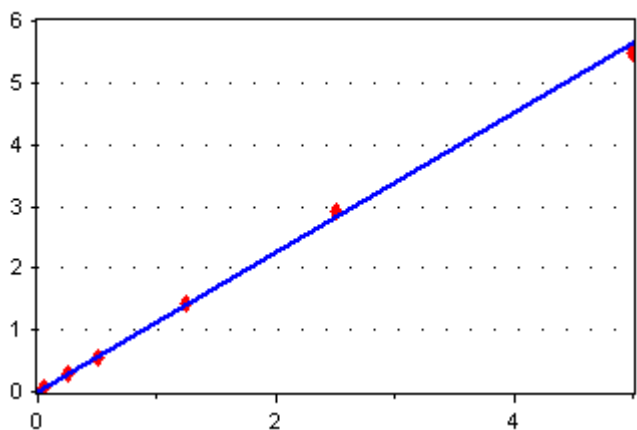
Average RF

RF RSD: 3.06448

$$[\text{Conc}] = 1.160834 * [\text{Response}]$$

Benzo(a)pyrene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(a)pyrene



Average RF

RF RSD: 2.304673

$$[\text{Conc}] = 1.130516 * [\text{Response}]$$

Indeno(1,2,3-cd)pyrene



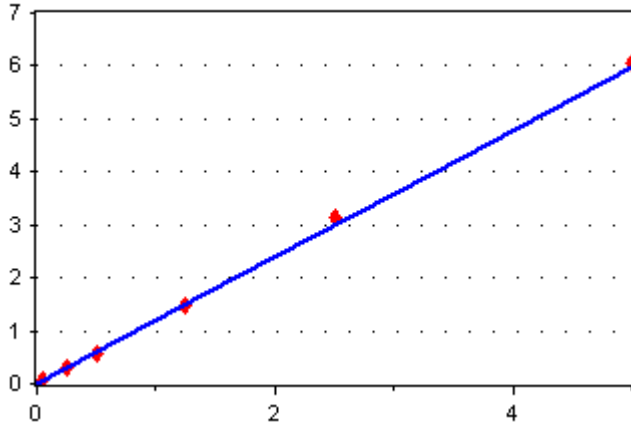
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0)

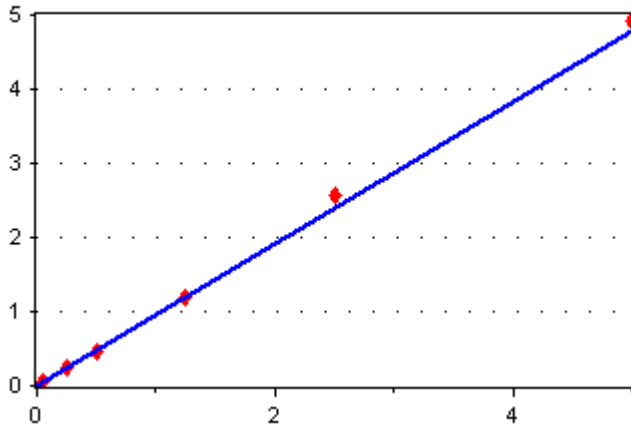
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Indeno(1,2,3-cd)pyrene



Average RF
RF RSD: 3.424947
[Conc] = 1.192515 * [Response]

Dibenzo(a,h)anthracene

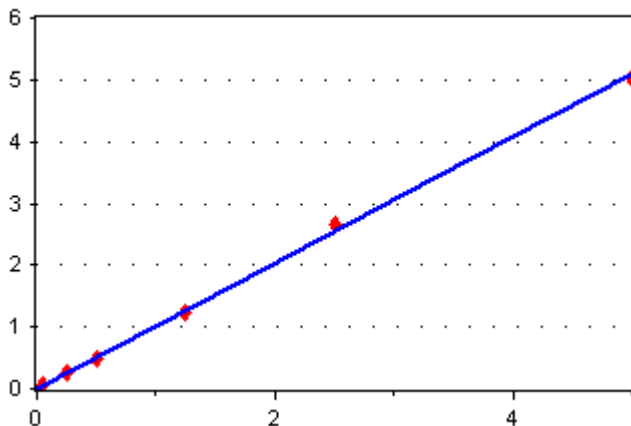
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Dibenzo(a,h)anthracene



Average RF
RF RSD: 4.758812
[Conc] = 0.9554681 * [Response]

Benzo(g,h,i)perylene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(g,h,i)perylene



Average RF
RF RSD: 2.308245
[Conc] = 1.020111 * [Response]



Calibration Report

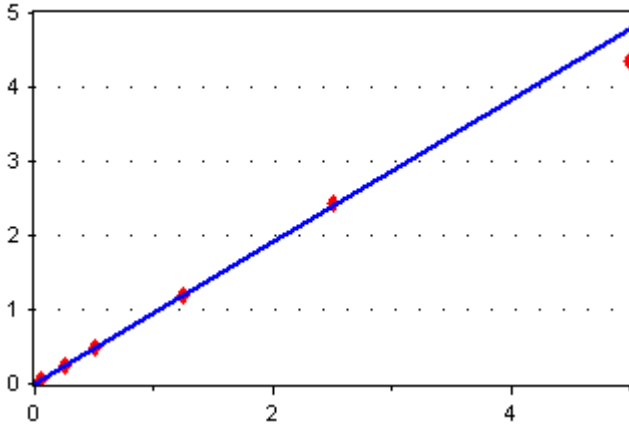
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

1-Methylnaphthalene

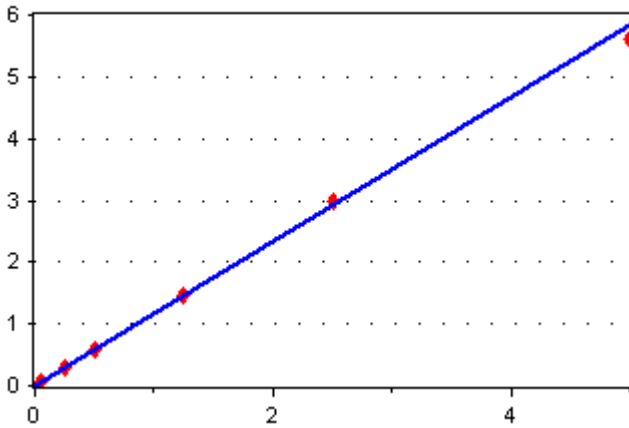
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 1-Methylnaphthalene



Average RF
RF RSD: 4.549215
[Conc] = 0.9587499 * [Response]

Perylene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Perylene



Average RF
RF RSD: 2.25151
[Conc] = 1.164895 * [Response]

Benzo(e)pyrene



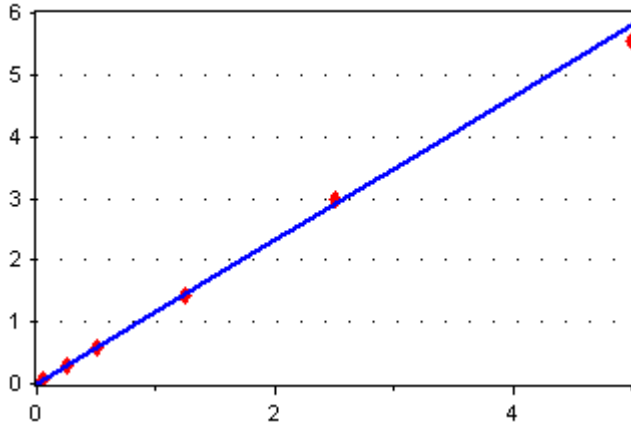
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

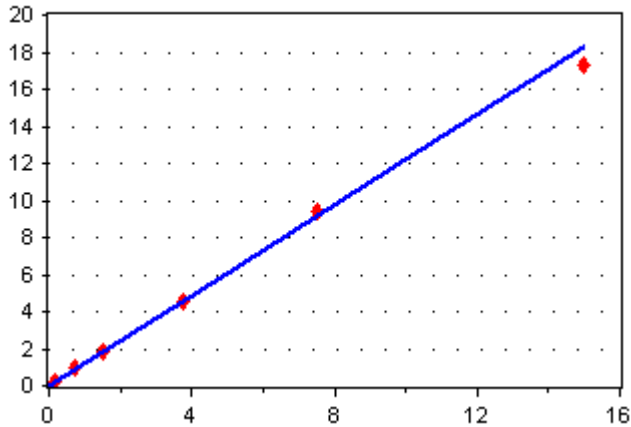
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(e)pyrene



Average RF
RF RSD: 2.557359
[Conc] = 1.161765 * [Response]

Benzofluoranthenes, Total

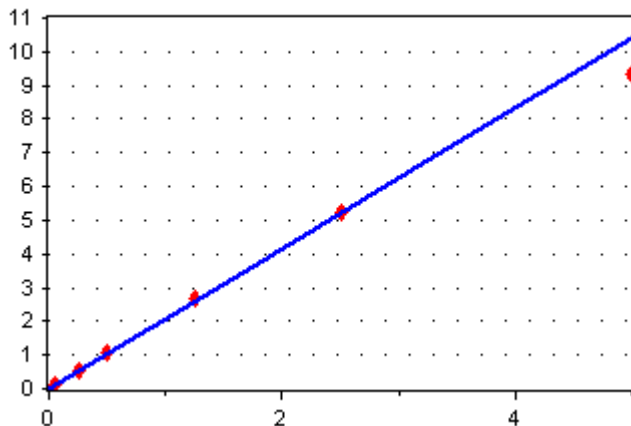
270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzofluoranthenes, 1



Average RF
RF RSD: 2.957202
[Conc] = 1.2165 * [Response]

2-Chloronaphthalene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 2-Chloronaphthalene



Average RF
RF RSD: 5.570973
[Conc] = 2.078588 * [Response]



Calibration Report

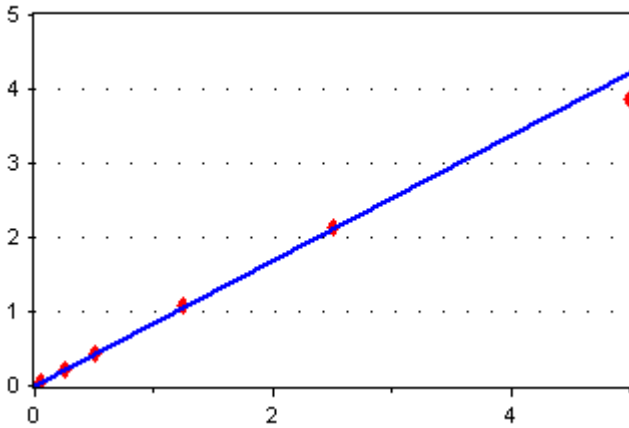
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

Benzo(b)thiophene

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Benzo(b)thiophene



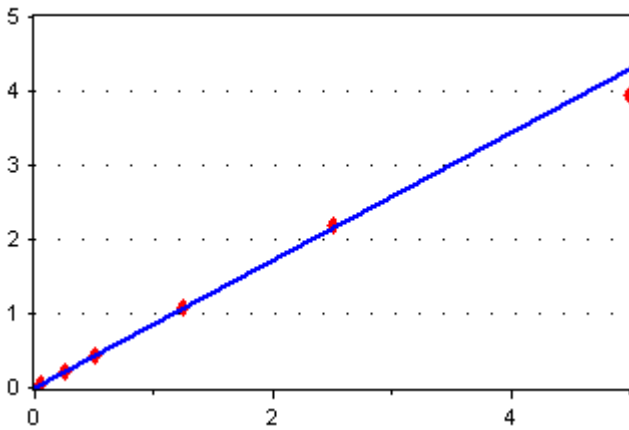
Average RF

RF RSD: 4.787422

[Conc] = 0.843323 * [Response]

2-Methylnaphthalene-d10

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - 2-Methylnaphthalene-



Average RF

RF RSD: 4.111869

[Conc] = 0.8570707 * [Response]

Dibenzo[a,h]anthracene-d14



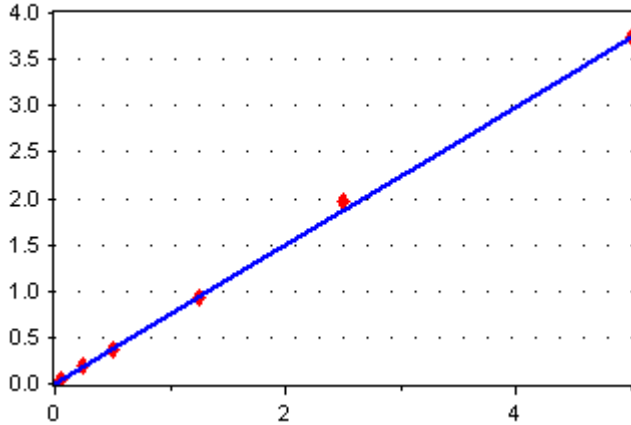
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

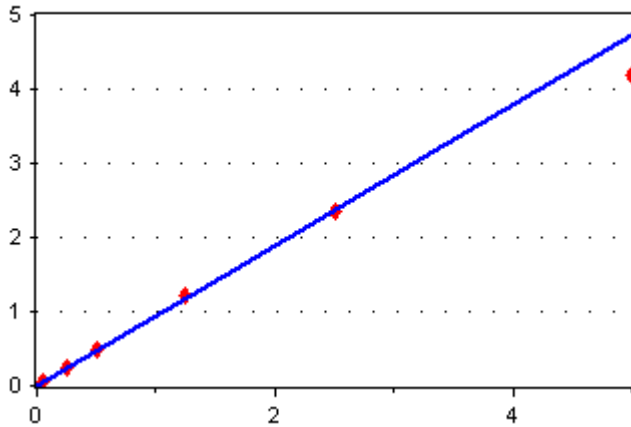
270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Dibenzo[a,h]anthracene



Average RF
RF RSD: 3.133339
[Conc] = 0.7460398 * [Response]

Fluoranthene-d10

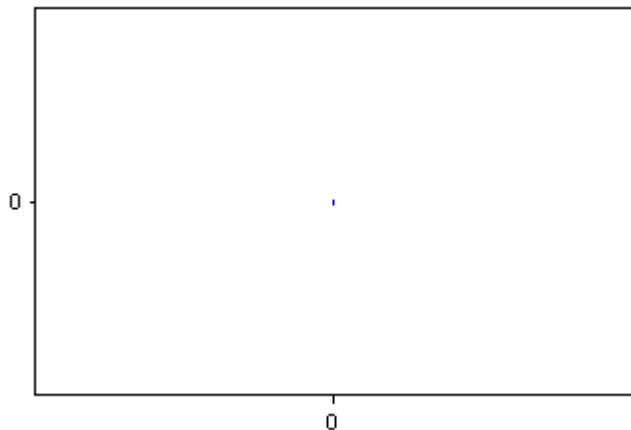
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Fluoranthene-d10



Average RF
RF RSD: 5.831994
[Conc] = 0.9454756 * [Response]

Naphthalene-d8

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Naphthalene-d8



Average RF
RF RSD:
[Conc] = * [Response]



Calibration Report

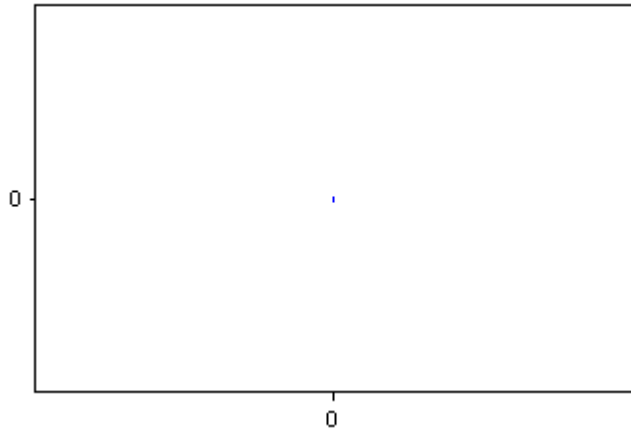
Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

Acenaphthene-d10

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Acenaphthene-d10



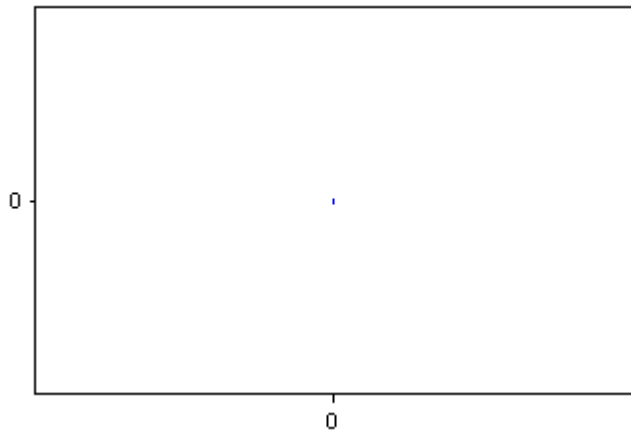
Average RF

RF RSD:

[Conc] = * [Response]

Phenanthrene-d10

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Phenanthrene-d10



Average RF

RF RSD:

[Conc] = * [Response]

Chrysene-d12



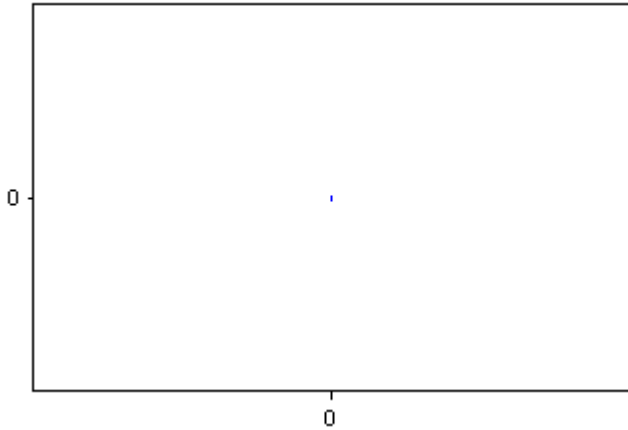
Calibration Report

Instrument: NT11
Calibration ID: AE00020

Calibration Date: 05-May-2017 08:30 By VTS
Last Edit Date: 06-May-2017 10:53 By VTS

8270D-SIM PAH Low (0.0

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Chrysene-d12



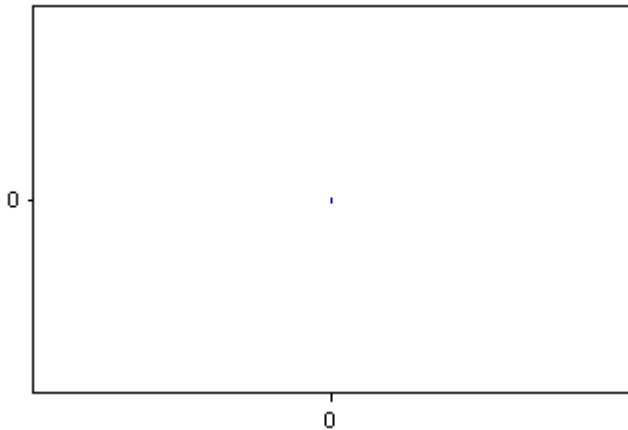
Average RF

RF RSD:

[Conc] = * [Response]

Perylene-d12

8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg) - Perylene-d12



Average RF

RF RSD:

[Conc] = * [Response]

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Batch File: \\target\share\chem3\nt11.i\20170505.b
 Inst ID: nt11.i

ID: RT01 RT02 RT03 RT04
 FILENAME: 17050503 17050506 17050507 17050508
 INJ. DATE: 05-MAY-2017 05-MAY-2017 05-MAY-2017 05-MAY-2017
 INJ. TIME: 11:47 13:35 14:11 14:47

Compound	RT01	RT02	RT03	RT04	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 1 Naphthalene-d8	8.500	8.500	8.500	8.500	8.500	8.250-8.750	8.500	0.000
1 Naphthalene	8.536	8.536	8.536	8.536	8.536	8.286-8.786	8.536	0.000
3 Benzo(b)thiophene	8.789	8.789	8.789	8.789	8.789	8.539-9.039	8.789	0.000
§ 4 2-Methylnaphthalene-d1	9.477	9.477	9.477	9.477	9.477	9.227-9.727	9.477	0.000
5 2-Methylnaphthalene	9.540	9.540	9.540	9.540	9.540	9.290-9.790	9.540	0.000
6 1-Methylnaphthalene	9.803	9.792	9.803	9.792	9.803	9.553-10.053	9.798	0.006
7 2-Chloronaphthalene	10.454	10.454	10.454	10.454	10.454	10.204-10.704	10.454	0.000
8 Biphenyl	10.412	10.412	10.412	10.412	10.412	10.162-10.662	10.412	0.000
9 2,6-Dimethylnaphthalen	10.475	10.475	10.475	10.475	10.475	10.225-10.725	10.475	0.000
10 Acenaphthylene	11.384	11.384	11.384	11.384	11.384	11.134-11.634	11.384	0.000
* 11 Acenaphthene-d10	11.537	11.537	11.538	11.537	11.537	11.287-11.787	11.537	0.000
12 Acenaphthene	11.601	11.601	11.601	11.592	11.601	11.351-11.851	11.598	0.004
13 Dibenzofuran	11.798	11.798	11.798	11.798	11.798	11.548-12.048	11.798	0.000
14 2,3,5-Trimethylnaphtha	11.899	11.886	11.886	11.886	11.899	11.649-12.149	11.889	0.006
§ 15 Fluorene-d10	12.379	12.366	12.379	12.366	12.379	12.129-12.629	12.373	0.007
16 Fluorene	12.429	12.429	12.430	12.430	12.430	12.179-12.679	12.430	0.000
17 Dibenzothiophene	14.052	14.052	14.052	14.052	14.052	13.802-14.302	14.052	0.000

Reviewer 1 _____ Date: _____
 Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
Batch File: \\target\share\chem3\nt11.i\20170505.b
Inst ID: nt11.i

Compound	RT01	RT02	RT03	RT04	EXPEC RT1	RT WINDOW	AVG RT	STD DEV1
* 18 Phenanthrene-d10	14.231	14.231	14.231	14.231	14.231	13.981-14.481	14.231	0.000
19 Phenanthrene	14.273	14.273	14.273	14.273	14.273	14.023-14.523	14.273	0.000
\$ 20 Anthracene-d10	14.294	14.294	14.294	14.294	14.294	14.044-14.544	14.294	0.000
21 Anthracene	14.325	14.325	14.326	14.326	14.326	14.075-14.575	14.325	0.000
22 Carbazole	15.000	15.000	15.000	15.000	15.000	14.750-15.250	15.000	0.000
23 1-Methylphenanthrene	15.271	15.271	15.271	15.271	15.271	15.021-15.521	15.271	0.000
\$ 24 Fluoranthene-d10	16.339	16.339	16.339	16.339	16.339	16.089-16.589	16.339	0.000
25 Fluoranthene	16.377	16.377	16.377	16.377	16.377	16.127-16.627	16.377	0.000
26 Pyrene	16.877	16.877	16.877	16.877	16.877	16.627-17.127	16.877	0.000
27 Benzo(a)anthracene	18.900	18.900	18.892	18.892	18.900	18.650-19.150	18.896	0.005
* 28 Chrysene-d12	18.992	18.992	18.992	18.992	18.992	18.742-19.242	18.992	0.000
29 Chrysene	19.041	19.041	19.042	19.042	19.041	18.791-19.291	19.041	0.000
30 Benzo(b)fluoranthene	20.953	20.953	20.953	20.953	20.953	20.703-21.203	20.953	0.000
31 Benzo(k)fluoranthene	21.011	21.001	21.001	21.011	21.011	20.761-21.261	21.004	0.005
32 Benzo(j)fluoranthene	21.078	21.078	21.078	21.078	21.078	20.828-21.328	21.078	0.000
\$ 33 Benzo(e)pyrene-d12	21.751	21.751	21.741	21.741	21.751	21.501-22.001	21.746	0.005
34 Benzo(e)pyrene	21.818	21.818	21.818	21.818	21.818	21.568-22.068	21.818	0.000
35 Benzo(a)pyrene	21.952	21.943	21.943	21.943	21.952	21.702-22.202	21.945	0.005
* 36 Perylene-d12	22.183	22.183	22.183	22.183	22.183	21.933-22.433	22.183	0.000
37 Perylene	22.260	22.260	22.260	22.260	22.260	22.010-22.510	22.260	0.000
\$ 38 Dibenzo(a,h)anthracene	25.028	25.028	25.028	25.028	25.028	24.778-25.278	25.028	0.000
39 Dibenzo(a,h)anthracene	25.172	25.160	25.172	25.161	25.172	24.922-25.422	25.166	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
Batch File: \\target\share\chem3\nt11.i\20170505.b
Inst ID: nt11.i

Compound	RT01	RT02	RT03	RT04	EXPEC RT1	RT WINDOW	AVG RT	STD DEV
40 Indeno(1,2,3-cd)pyrene	25.205	25.205	25.205	25.194	25.205	24.955-25.455	25.202	0.006
41 Benzo(g,h,i)perylene	26.567	26.578	26.567	26.567	26.567	26.317-26.817	26.570	0.005

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt11.i\20170505.b\lowsim.m
Batch File: \\target\share\chem3\nt11.i\20170505.b
Inst ID: nt11.i

Compound	RT01	RT02	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 1 Naphthalene-d8	8.500	8.500	8.500	8.250-8.750	8.500	0.000
2 Naphthalene	8.536	8.536	8.536	8.286-8.786	8.536	0.000
3 Benzo(b)thiophene	8.789	8.789	8.789	8.539-9.039	8.789	0.000
§ 4 2-Methylnaphthalene-d1	9.477	9.488	9.477	9.227-9.727	9.482	0.007
5 2-Methylnaphthalene	9.540	9.540	9.540	9.290-9.790	9.540	0.000
6 1-Methylnaphthalene	9.803	9.803	9.803	9.553-10.053	9.803	0.000
7 2-Chloronaphthalene	10.454	10.454	10.454	10.204-10.704	10.454	0.000
8 Biphenyl	10.412	10.412	10.412	10.162-10.662	10.412	0.000
9 2,6-Dimethylnaphthalen	10.475	10.475	10.475	10.225-10.725	10.475	0.000
10 Acenaphthylene	11.384	11.384	11.384	11.134-11.634	11.384	0.000
* 11 Acenaphthene-d10	11.537	11.537	11.537	11.287-11.787	11.537	0.000
12 Acenaphthene	11.601	11.601	11.601	11.351-11.851	11.601	0.000
13 Dibenzofuran	11.798	11.797	11.798	11.548-12.048	11.798	0.000
14 2,3,5-Trimethylnaphtha	11.899	11.899	11.899	11.649-12.149	11.899	0.000
15 Fluorene-d10	12.379	12.379	12.379	12.129-12.629	12.379	0.000
16 Fluorene	12.430	12.429	12.429	12.179-12.679	12.429	0.000
17 Dibenzothiophene	14.052	14.052	14.052	13.802-14.302	14.052	0.000
* 18 Phenanthrene-d10	14.231	14.231	14.231	13.981-14.481	14.231	0.000
19 Phenanthrene	14.273	14.273	14.273	14.023-14.523	14.273	0.000
§ 20 Anthracene-d10	14.294	14.294	14.294	14.044-14.544	14.294	0.000

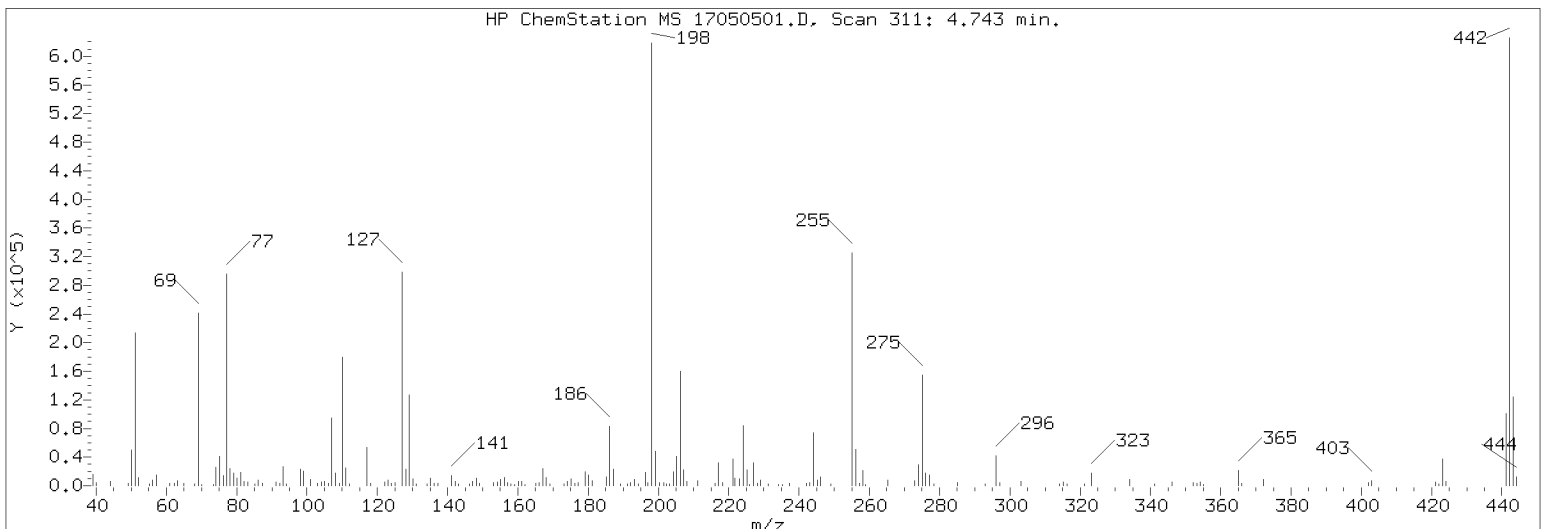
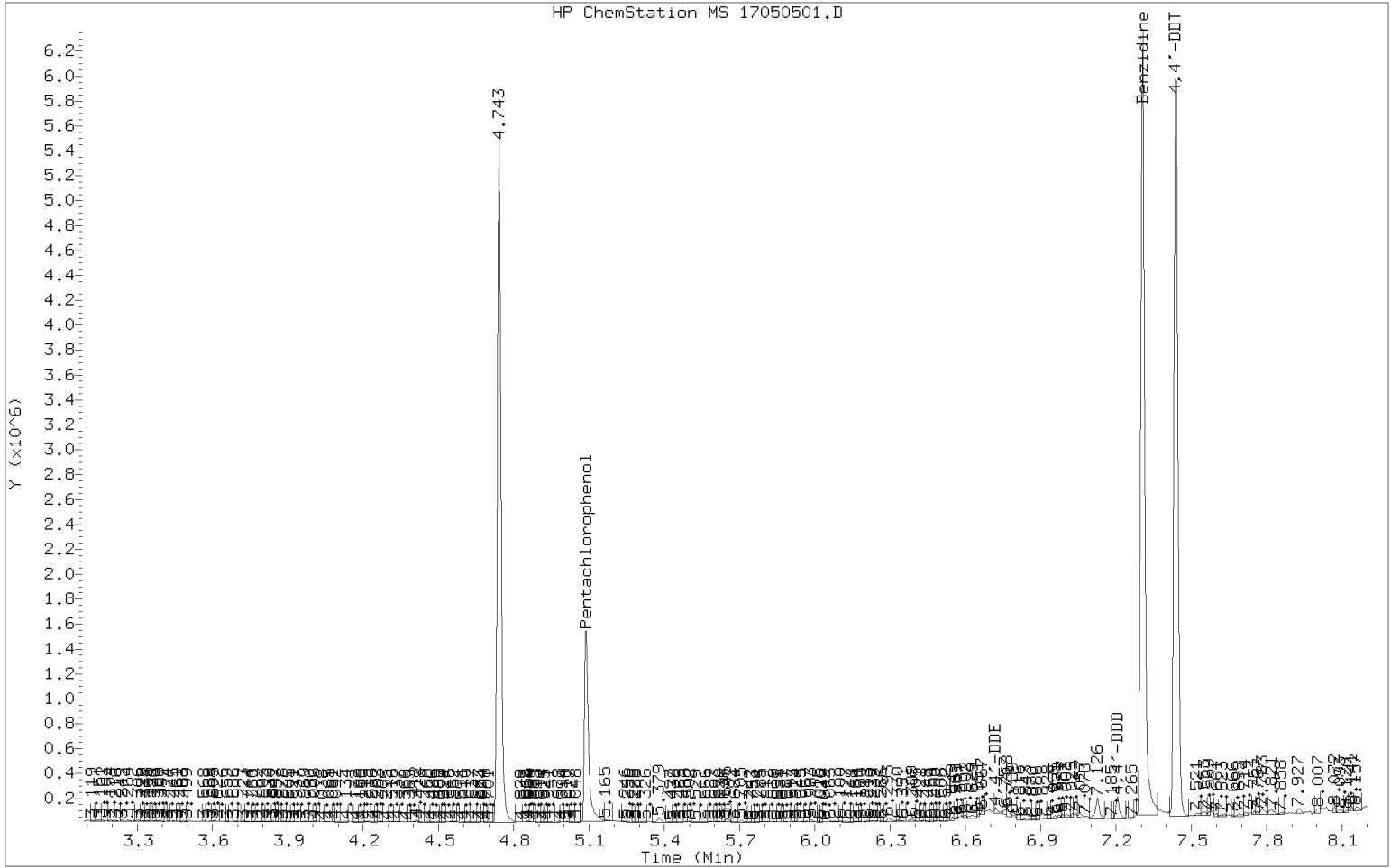
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt11.i\20170505.b\lowsim.m
Batch File: \\target\share\chem3\nt11.i\20170505.b
Inst ID: nt11.i

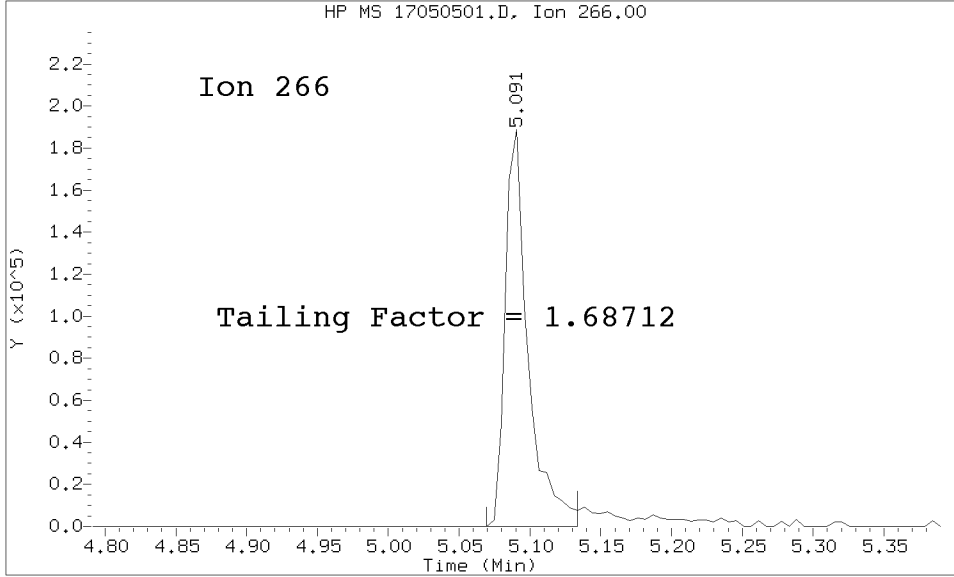
Compound	RT01	RT02	EXPEC RT1	RT WINDOW	AVG RT	STD DEV
21 Anthracene	14.325	14.325	14.325	14.075-14.575	14.325	0.000
22 Carbazole	15.000	15.009	15.000	14.750-15.250	15.004	0.006
23 1-Methylphenanthrene	15.271	15.271	15.271	15.021-15.521	15.271	0.000
24 Fluoranthene-d10	16.339	16.339	16.339	16.089-16.589	16.339	0.000
25 Fluoranthene	16.377	16.377	16.377	16.127-16.627	16.377	0.000
26 Pyrene	16.877	16.877	16.877	16.627-17.127	16.877	0.000
27 Benzo(a)anthracene	18.900	18.900	18.900	18.650-19.150	18.900	0.000
* 28 Chrysene-d12	18.992	18.992	18.992	18.742-19.242	18.992	0.000
29 Chrysene	19.041	19.041	19.041	18.791-19.291	19.041	0.000
30 Benzo(b)fluoranthene	20.953	20.953	20.953	20.703-21.203	20.953	0.000
31 Benzo(k)fluoranthene	21.011	21.011	21.011	20.761-21.261	21.006	0.007
32 Benzo(j)fluoranthene	21.078	21.078	21.078	20.828-21.328	21.078	0.000
33 Benzo(e)pyrene-d12	21.751	21.741	21.751	21.501-22.001	21.746	0.007
34 Benzo(e)pyrene	21.818	21.818	21.818	21.568-22.068	21.818	0.000
35 Benzo(a)pyrene	21.952	21.943	21.952	21.702-22.202	21.948	0.007
* 36 Perylene-d12	22.183	22.183	22.183	21.933-22.433	22.183	0.000
37 Perylene	22.260	22.260	22.260	22.010-22.510	22.260	0.000
38 Dibenzo(a,h)anthracene	25.028	25.028	25.028	24.778-25.278	25.028	0.000
39 Dibenzo(a,h)anthracene	25.172	25.172	25.172	24.922-25.422	25.172	0.000
40 Indeno(1,2,3-cd)pyrene	25.205	25.205	25.205	24.955-25.455	25.205	0.000
41 Benzo(g,h,i)perylene	26.578	26.567	26.567	26.317-26.817	26.573	0.008

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20170505.b/17050501.D/17050501.D
Method Used: \20170505.b\DFTPP.m Inst: nt11
Injection Date: 05-MAY-2017 10:50 Operator: VTS
Sample Info: SFE0059-TUN1 SFE0059-TUN1
Report Date: 05/06/2017 09:58



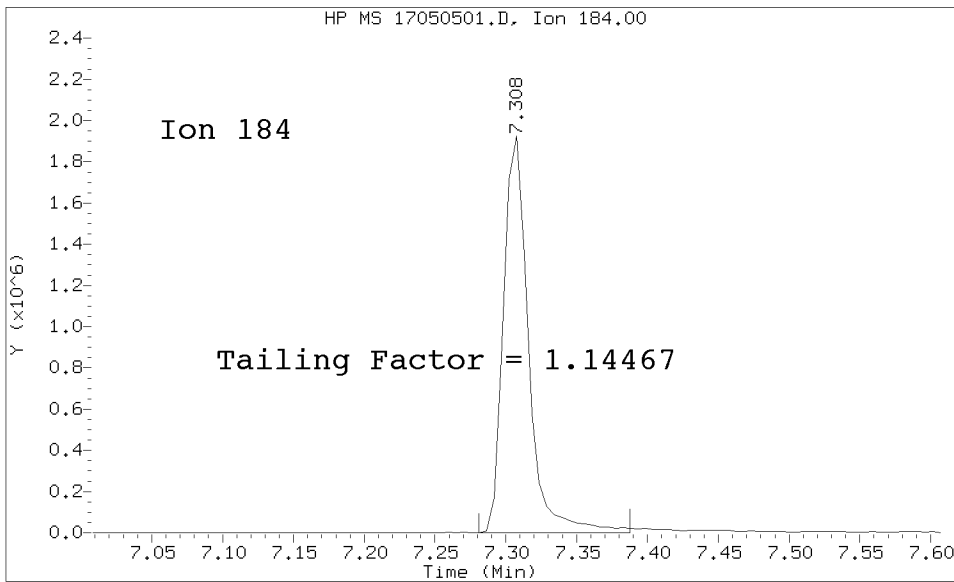
Datafile Analyzed: /20170505.b/17050501.D/17050501.D
Method Used: \20170505.b\DFTPP.m\sw846ddt.m Inst: nt11
Injection Date: 05-MAY-2017 10:50 Operator: VTS
Sample Info: SFE0059-TUN1
Report Date: 05/06/2017 09:58



Pentachlorophenol

=====
Exp. RT = 5.091
Found RT = 5.091

Tail Factor = 1.687 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.308
Found RT = 7.308

Tail Factor = 1.145 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6871239	2.000	PASS
Benzidine	1.1446674	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1104241			N/A
4,4-DDE	4926	0.4	20.0	PASS
4,4-DDD	42304	3.7	20.0	PASS
4,4-DDD + DDE	47230	4.1	20.0	PASS

Tuning Sample, nt11.i/20170505.b/17050501.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	35.22
68	Less than 2.00% of mass 69	0.33 (0.83)
69	Mass 69 relative abundance	39.19
70	Less than 2.00% of mass 69	0.13 (0.34)
127	10.00 - 80.00% of mass 198	49.49
197	Less than 2.00% of mass 198	0.48
199	5.00 - 9.00% of mass 198	7.91
275	10.00 - 60.00% of mass 198	23.81
365	Greater than 1.00% of mass 198	3.23
441	0.01 - 24.00% of mass 442	14.99 (15.57)
442	50.00 - 200.00% of mass 198	96.27
443	15.00 - 24.00% of mass 442	18.55 (19.26)

Data File: 17050501.D
 Spectrum: Avg. Scans 310-312 (4.74), Background Scan 304
 Location of Maximum: 198.00
 Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1236	112.00	1566	185.00	9149	257.00	2989
39.00	13436	116.00	1914	186.00	66424	258.00	15186
40.00	258	117.00	39216	187.00	18264	259.00	1427
41.00	906	118.00	2387	188.00	1142	265.00	5188
49.00	2138	122.00	5113	189.00	2689	273.00	6560
50.00	43416	123.00	6236	191.00	1471	274.00	24888
51.00	178304	124.00	1797	192.00	4349	275.00	120552
52.00	10100	125.00	2821	193.00	5762	276.00	16528
56.00	5698	127.00	250560	194.00	1508	277.00	9944
57.00	13478	128.00	19920	196.00	12613	278.00	1529
61.00	3454	129.00	97792	197.00	2434	285.00	2523
62.00	3257	130.00	7940	198.00	506304	293.00	1663
63.00	6540	131.00	2768	199.00	40064	296.00	32816
65.00	4109	134.00	2079	200.00	2916	297.00	4226
68.00	1654	135.00	8147	201.00	2227	303.00	4798
69.00	198400	136.00	3427	202.00	945	314.00	1837
70.00	683	137.00	2044	203.00	2577	315.00	3640
73.00	679	141.00	11103	204.00	15838	316.00	1031
74.00	20576	142.00	3708	205.00	29584	321.00	776
75.00	34608	143.00	2791	206.00	124104	323.00	13214
76.00	11304	146.00	1990	207.00	17288	324.00	704
77.00	250112	147.00	4855	208.00	5163	327.00	695
78.00	19752	148.00	11069	210.00	677	334.00	7921
79.00	14456	149.00	2481	211.00	5281	335.00	1639
80.00	11811	151.00	776	216.00	2375	341.00	1617
81.00	16536	153.00	3696	217.00	27072	346.00	2667
82.00	3382	154.00	3383	218.00	3669	352.00	4270
83.00	5555	155.00	6161	221.00	29824	353.00	2609
84.00	1086	156.00	8697	222.00	5540	354.00	4034
85.00	2102	157.00	3255	223.00	7501	355.00	723
86.00	5970	158.00	1917	224.00	68744	365.00	16343
87.00	1943	159.00	734	225.00	16744	366.00	2987
91.00	3232	160.00	4019	226.00	684	372.00	6405
92.00	2844	161.00	5433	227.00	26128	373.00	1245
93.00	23848	162.00	743	228.00	2874	383.00	959
94.00	2045	165.00	3319	229.00	4525	390.00	728
95.00	809	166.00	2515	231.00	2523	402.00	2432
98.00	17616	167.00	19352	234.00	695	403.00	5273
99.00	16287	168.00	9450	235.00	1433	421.00	3849
101.00	7969	169.00	1465	237.00	1882	422.00	3513
103.00	3484	172.00	1086	242.00	3299	423.00	27408
104.00	4978	173.00	2147	243.00	3672	424.00	5324
105.00	5375	174.00	4567	244.00	54952	441.00	75904
106.00	1794	175.00	8703	245.00	8167	442.00	487424
107.00	77152	176.00	2935	246.00	8890	443.00	93896
108.00	14163	177.00	3648	247.00	907	444.00	9310
109.00	3586	179.00	16520	249.00	819		
110.00	152640	180.00	12862	255.00	260544		
111.00	20944	181.00	5140	256.00	38776		

+-----+-----+-----+-----+

Data File: \\target\share\chem3\nt11.1\20170505.16\17050503.D

Date : 05-May-2017 11:47

Client ID:

Sample Info: SFE0059-CAL4

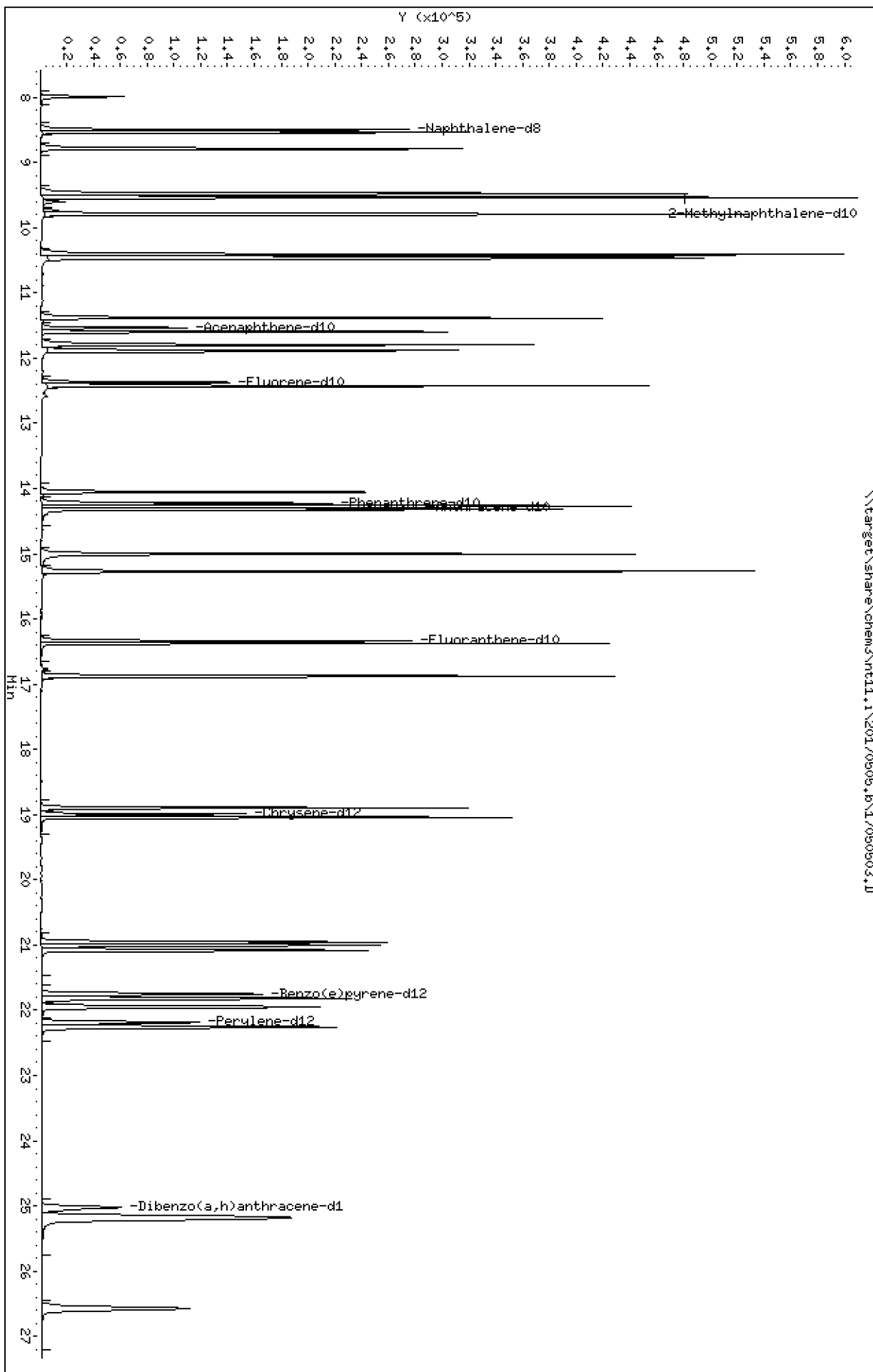
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050503.D

Lab Smp Id: SFE0059-CAL4

Inj Date : 05-MAY-2017 11:47

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL4

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.499	8.499	(1.000)	371325	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	485418	250.000	243
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	405571	250.000	259
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	397801	250.000	250
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	463745	250.000	252
6 1-Methylnaphthalene	142	9.802	9.802	(1.153)	446197	250.000	251
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	411611	250.000	256
8 Biphenyl	154	10.412	10.412	(0.902)	547218	250.000	228 (H)
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.908)	428206	250.000	254
10 Acenaphthylene	152	11.383	11.383	(0.987)	459890	250.000	254
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	154428	200.000	
12 Acenaphthene	153	11.600	11.600	(1.005)	297407	250.000	251
13 Dibenzofuran	168	11.797	11.797	(1.023)	404038	250.000	247
14 2,3,5-Trimethylnaphthalene	170	11.898	11.898	(1.031)	241555	250.000	261
\$ 15 Fluorene-d10	174	12.378	12.378	(1.073)	192792	250.000	254
16 Fluorene	166	12.429	12.429	(1.077)	322601	250.000	253
17 Dibenzothiophene	184	14.052	14.052	(0.987)	340607	250.000	256
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	256956	200.000	
19 Phenanthrene	178	14.272	14.272	(1.003)	486270	250.000	254
\$ 20 Anthracene-d10	188	14.293	14.293	(1.004)	331343	250.000	250
21 Anthracene	178	14.325	14.325	(1.007)	458766	250.000	243
22 Carbazole	167	14.999	14.999	(1.054)	537938	250.000	245
23 1-Methylphenanthrene	192	15.271	15.271	(1.073)	453626	250.000	262
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.148)	312652	250.000	257
25 Fluoranthene	202	16.377	16.377	(1.151)	472612	250.000	257
26 Pyrene	202	16.876	16.876	(0.889)	467735	250.000	248
27 Benzo(a)anthracene	228	18.900	18.900	(0.995)	370821	250.000	250
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	208629	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	381901	250.000	249
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	344077	250.000	244 (H)
31 Benzo(k)fluoranthene	252	21.010	21.010	(0.947)	347199	250.000	249 (H)
32 Benzo(j)fluoranthene	252	21.077	21.077	(0.950)	321203	250.000	245
\$ 33 Benzo(e)pyrene-d12	264	21.750	21.750	(0.981)	288259	250.000	244

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)		
=====	=====	=====	=====	=====	=====	=====	=====		
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	322443	250.000	246		
35 Benzo(a)pyrene	252	21.952	21.952	(0.990)	320317	250.000	251		
* 36 Perylene-d12	264	22.182	22.182	(1.000)	225431	200.000			
37 Perylene	252	22.259	22.259	(1.003)	325617	250.000	248		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	209101	250.000	249		
39 Dibenzo(a,h)anthracene	278	25.171	25.171	(1.135)	269977	250.000	251		
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	335159	250.000	249		
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	281253	250.000	245		

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050503.D
 Lab Smp Id: SFE0059-CAL4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	371325	0.00
11 Acenaphthene-d10	154428	77214	308856	154428	0.00
18 Phenanthrene-d10	256956	128478	513912	256956	0.00
28 Chrysene-d12	208629	104315	417258	208629	0.00
36 Perylene-d12	225431	112716	450862	225431	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050503.D

Lab ID: SFE0059-CAL4

nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 11:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Instrument: nt11.i Date: 05-MAY-2017 Method: 20170505.b\LOWSIM.m

INITIAL CAL:

Compound	%RSD or R ²
Naphthalene	ND
2-Methylnaphthalene	ND
Acenaphthylene	ND
Acenaphthene	ND
Dibenzofuran	ND
Fluorene	ND
Phenanthrene	ND
Anthracene	ND
Fluoranthene	ND
Pyrene	ND
Benzo(a)anthracene	ND
Chrysene	ND
Benzo(b)fluoranthene	ND
Benzo(k)fluoranthene	ND
Benzo(j)fluoranthene	ND
Benzo(a)pyrene	ND
Indeno(1,2,3-cd)pyrene	ND
Dibenzo(a,h)anthracene	ND
Benzo(g,h,i)perylene	ND
1-Methylnaphthalene	ND
Perylene	ND
Benzo(e)pyrene	ND
Benzo(b)thiophene	ND
2-Chloronaphthalene	ND
2,6-Dimethylnaphthalene	ND
2,3,5-Trimethylnaphthalene	ND
1-Methylphenanthrene	ND
Dibenzothiophene	ND
Carbazole	ND
Biphenyl	ND
2-Methylnaphthalene-d10	ND
Dibenzo(a,h)anthracene-d14	ND
Fluoranthene-d10	ND
Anthracene-d10	ND
Benzo(e)pyrene-d12	ND
Fluorene-d10	ND

ICV CAL: 17050503.D 05-MAY-2017 11:47

Compound	%D
NO Q-FLAGS	

Data File: \\target\share\chem3\nt11.1\20170505.16\17050504.D

Date: 05-May-2017 12:23

Client ID:

Sample Info: SFE0059-CAL6

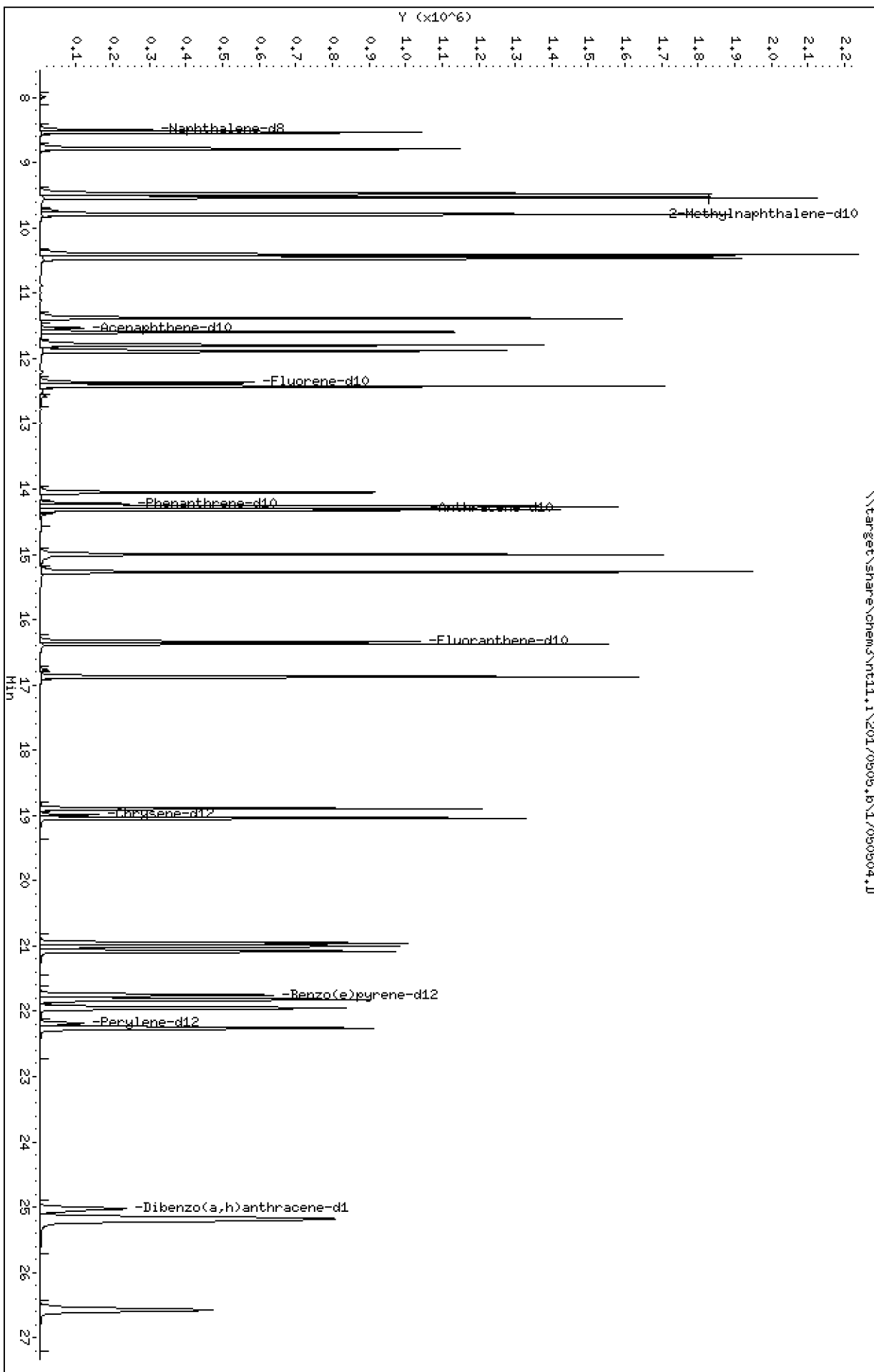
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050504.D

Lab Smp Id: SFE0059-CAL6

Inj Date : 05-MAY-2017 12:23

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL6

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\lowsim.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 4

Calibration Sample, Level: 6

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.499	8.499	(1.000)	371198	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	1688683	1000.00	847
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	1438329	1000.00	919
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	1460926	1000.00	918
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	1664305	1000.00	905
6 1-Methylnaphthalene	142	9.802	9.802	(1.153)	1617625	1000.00	909
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	1520400	1000.00	900
8 Biphenyl	154	10.412	10.412	(0.902)	1982824	1000.00	784
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.908)	1619763	1000.00	914
10 Acenaphthylene	152	11.383	11.383	(0.987)	1702264	1000.00	893
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	162579	200.000	
12 Acenaphthene	153	11.600	11.600	(1.005)	1123706	1000.00	902
13 Dibenzofuran	168	11.797	11.797	(1.023)	1483575	1000.00	863
14 2,3,5-Trimethylnaphthalene	170	11.898	11.898	(1.031)	949668	1000.00	975
\$ 15 Fluorene-d10	174	12.378	12.378	(1.073)	762650	1000.00	955
16 Fluorene	166	12.429	12.429	(1.077)	1229596	1000.00	917
17 Dibenzothiophene	184	14.052	14.052	(0.987)	1283164	1000.00	868
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	285659	200.000	
19 Phenanthrene	178	14.272	14.272	(1.003)	1723461	1000.00	810
\$ 20 Anthracene-d10	188	14.293	14.293	(1.004)	1236422	1000.00	839
21 Anthracene	178	14.325	14.325	(1.007)	1685780	1000.00	805
22 Carbazole	167	14.999	14.999	(1.054)	2000084	1000.00	820
23 1-Methylphenanthrene	192	15.271	15.271	(1.073)	1671839	1000.00	868
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.148)	1195533	1000.00	885
25 Fluoranthene	202	16.377	16.377	(1.151)	1688461	1000.00	826
26 Pyrene	202	16.876	16.876	(0.889)	1704652	1000.00	895
27 Benzo(a)anthracene	228	18.900	18.900	(0.995)	1390956	1000.00	928
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	210433	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	1405516	1000.00	909
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	1339564	1000.00	939
31 Benzo(k)fluoranthene	252	21.010	21.010	(0.947)	1353338	1000.00	957
32 Benzo(j)fluoranthene	252	21.077	21.077	(0.950)	1259286	1000.00	950
\$ 33 Benzo(e)pyrene-d12	264	21.750	21.750	(0.981)	1128196	1000.00	944

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)		
=====	=====	=====	=====	=====	=====	=====	=====		
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	1269733	1000.00	957		
35 Benzo(a)pyrene	252	21.952	21.952	(0.990)	1252513	1000.00	971		
* 36 Perylene-d12	264	22.182	22.182	(1.000)	228317	200.000			
37 Perylene	252	22.259	22.259	(1.003)	1279578	1000.00	962		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	851647	1000.00	1000		
39 Dibenzo(a,h)anthracene	278	25.171	25.171	(1.135)	1121870	1000.00	1030		
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	1386264	1000.00	1020		
41 Benzo(g,h,i)perylene	276	26.578	26.567	(1.198)	1150045	1000.00	988		

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050504.D
 Lab Smp Id: SFE0059-CAL6
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\lowsim.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	371198	-0.03
11 Acenaphthene-d10	154428	77214	308856	162579	5.28
18 Phenanthrene-d10	256956	128478	513912	285659	11.17
28 Chrysene-d12	208629	104315	417258	210433	0.86
36 Perylene-d12	225431	112716	450862	228317	1.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050504.D

Lab ID: SFE0059-CAL6

nt11.i, 20170505.b\lowsim.m, 05-MAY-2017 12:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

On Column LOD for nt11.i, 20170505.b\lowsim.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Data File: \\target\share\chem3\nt11.1\20170505.16\17050505.D

Date: 05-May-2017 12:59

Client ID:

Sample Info: SFE0059-CAL1

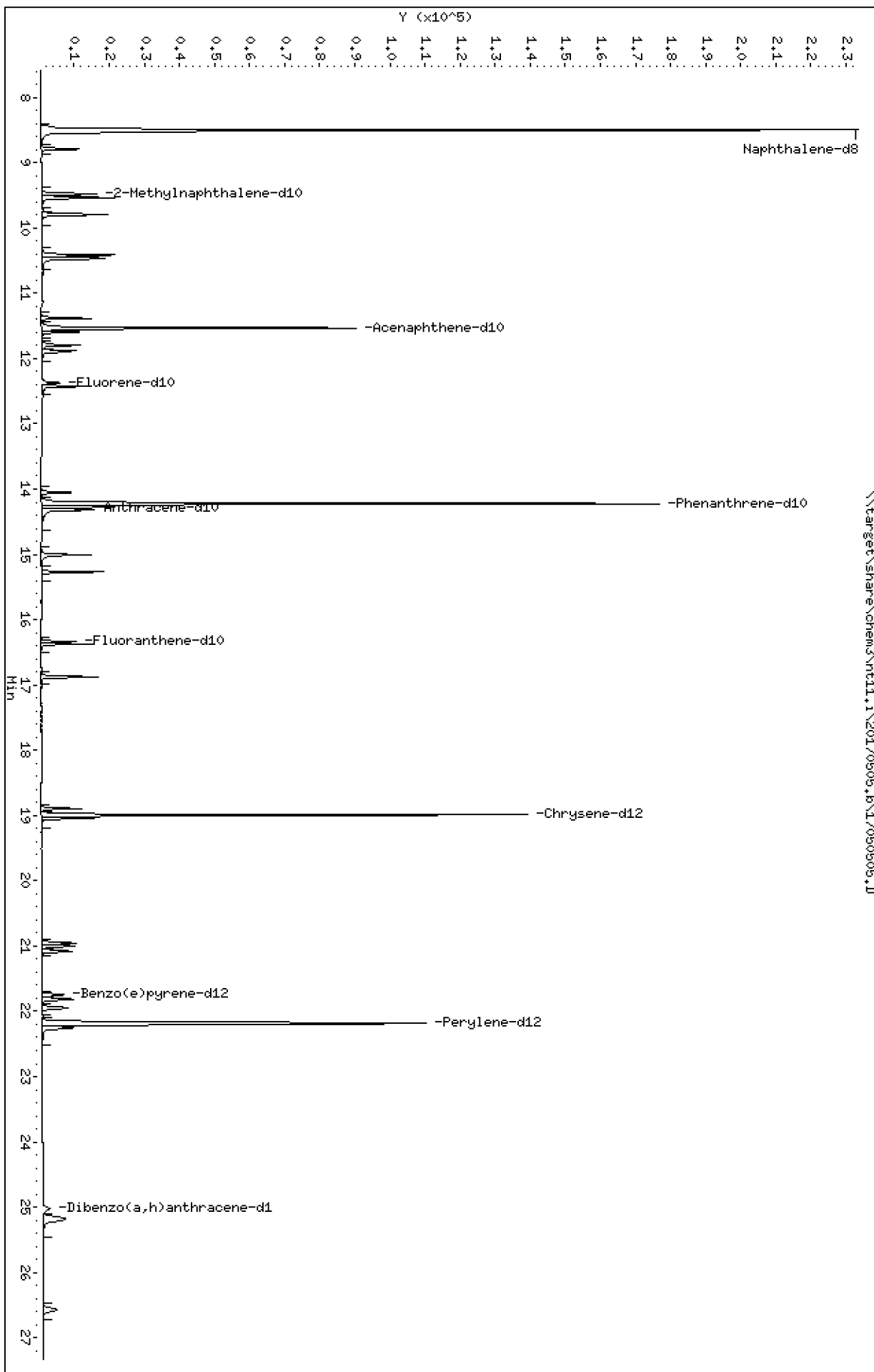
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050505.D

Lab Smp Id: SFE0059-CAL1

Inj Date : 05-MAY-2017 12:59

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL1

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\lowsim.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 5

Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136		8.499	8.499	(1.000)	362430	200.000	
2 Naphthalene	128		8.535	8.536	(1.004)	23089	10.0000	11.9
3 Benzo(b)thiophene	134		8.789	8.789	(1.034)	16007	10.0000	10.5
\$ 4 2-Methylnaphthalene-d10	152		9.487	9.477	(1.116)	15907	10.0000	10.2
5 2-Methylnaphthalene	142		9.540	9.540	(1.122)	18407	10.0000	10.2
6 1-Methylnaphthalene	142		9.802	9.802	(1.153)	17709	10.0000	10.2
7 2-Chloronaphthalene	162		10.454	10.454	(0.906)	15755	10.0000	10.6 (M)
8 Biphenyl	154		10.412	10.412	(0.902)	26255	10.0000	11.8
9 2,6-Dimethylnaphthalene	156		10.475	10.475	(0.908)	16121	10.0000	10.4
10 Acenaphthylene	152		11.383	11.383	(0.987)	17337	10.0000	10.4
* 11 Acenaphthene-d10	164		11.537	11.537	(1.000)	142581	200.000	
12 Acenaphthene	153		11.600	11.600	(1.005)	11279	10.0000	10.3
13 Dibenzofuran	168		11.797	11.797	(1.023)	15935	10.0000	10.6
14 2,3,5-Trimethylnaphthalene	170		11.898	11.898	(1.031)	8363	10.0000	9.79 (M)
\$ 15 Fluorene-d10	174		12.378	12.378	(1.073)	7329	10.0000	10.5 (M)
16 Fluorene	166		12.429	12.429	(1.077)	12296	10.0000	10.5
17 Dibenzothiophene	184		14.052	14.052	(0.987)	12755	10.0000	10.4
* 18 Phenanthrene-d10	188		14.230	14.230	(1.000)	236545	200.000	
19 Phenanthrene	178		14.272	14.272	(1.003)	19301	10.0000	11.0
\$ 20 Anthracene-d10	188		14.293	14.293	(1.004)	13396	10.0000	11.0 (M)
21 Anthracene	178		14.325	14.325	(1.007)	19550	10.0000	11.3
22 Carbazole	167		15.008	14.999	(1.055)	23132	10.0000	11.5
23 1-Methylphenanthrene	192		15.270	15.271	(1.073)	16403	10.0000	10.3
\$ 24 Fluoranthene-d10	212		16.338	16.338	(1.148)	11496	10.0000	10.3
25 Fluoranthene	202		16.377	16.377	(1.151)	18155	10.0000	10.7
26 Pyrene	202		16.876	16.876	(0.889)	18977	10.0000	10.6
27 Benzo(a)anthracene	228		18.900	18.900	(0.995)	14774	10.0000	10.5
* 28 Chrysene-d12	240		18.991	18.991	(1.000)	197257	200.000	
29 Chrysene	228		19.041	19.041	(1.003)	15099	10.0000	10.4
30 Benzo(b)fluoranthene	252		20.952	20.953	(0.945)	13571	10.0000	10.2
31 Benzo(k)fluoranthene	252		21.001	21.010	(0.947)	13328	10.0000	10.1
32 Benzo(j)fluoranthene	252		21.077	21.077	(0.950)	12369	10.0000	9.96
\$ 33 Benzo(e)pyrene-d12	264		21.740	21.750	(0.980)	11507	10.0000	10.3

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)		
=====	=====	=====	=====	=====	=====	=====	=====		
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	12516	10.0000	10.1		
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	11928	10.0000	9.86		
* 36 Perylene-d12	264	22.182	22.182	(1.000)	213968	200.000			
37 Perylene	252	22.259	22.259	(1.003)	12575	10.0000	10.1		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	7675	10.0000	9.62		
39 Dibenzo(a,h)anthracene	278	25.171	25.171	(1.135)	9552	10.0000	9.34		
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	12265	10.0000	9.61		
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	11072	10.0000	10.1		

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050505.D
 Lab Smp Id: SFE0059-CAL1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\lowsim.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	362430	-2.40
11 Acenaphthene-d10	154428	77214	308856	142581	-7.67
18 Phenanthrene-d10	256956	128478	513912	236545	-7.94
28 Chrysene-d12	208629	104315	417258	197257	-5.45
36 Perylene-d12	225431	112716	450862	213968	-5.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	-0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	-0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	-0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	-0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	-0.00

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

REVIEW SUMMARY FOR FILE - 17050505.D

Lab ID: SFE0059-CAL1

nt11.i, 20170505.b\lowsim.m, 05-MAY-2017 12:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

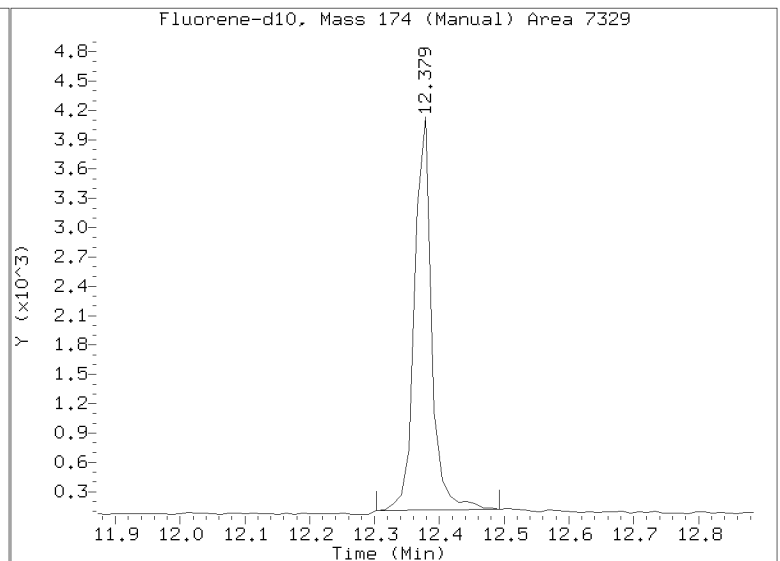
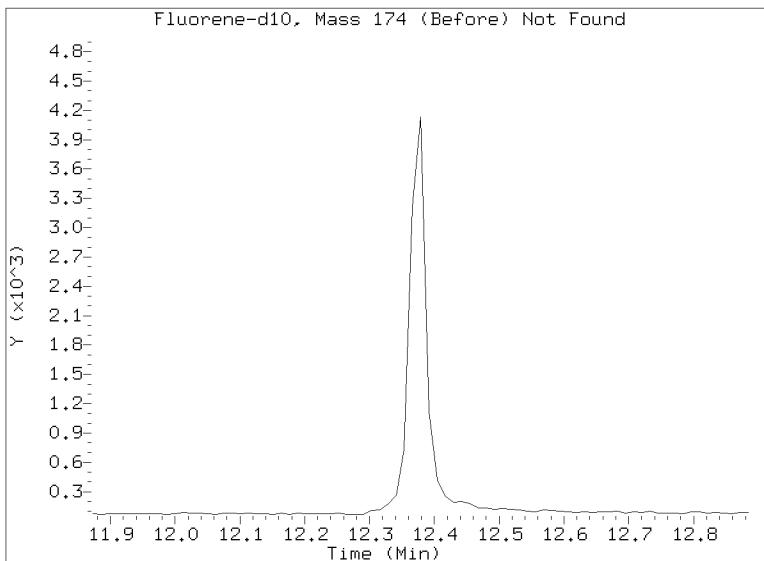
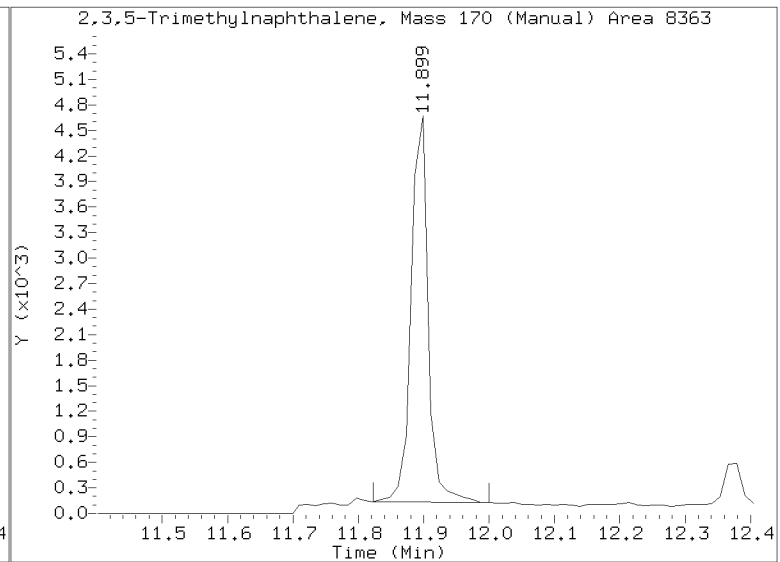
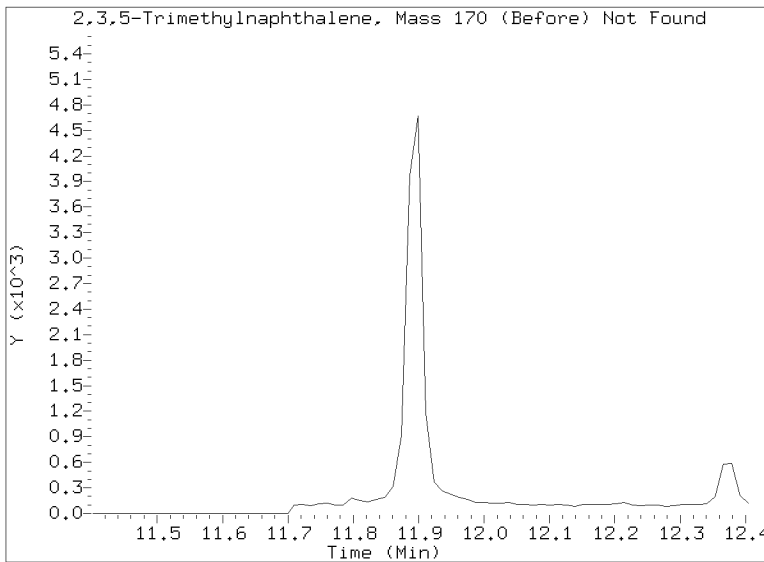
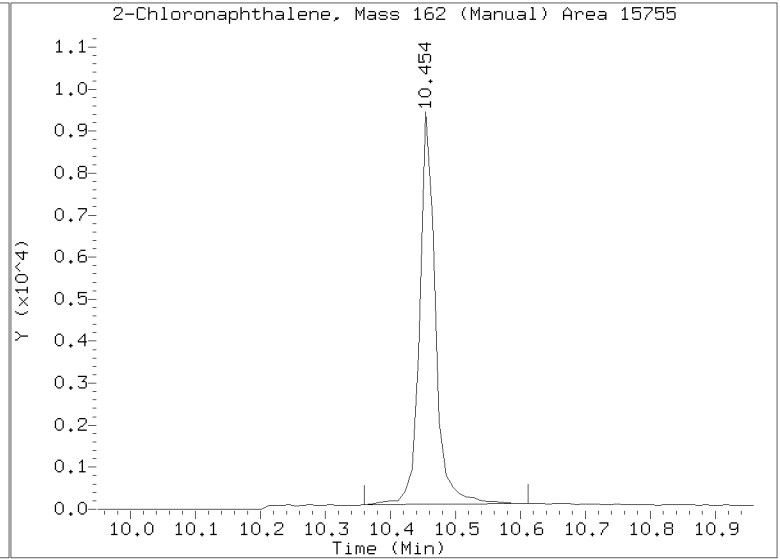
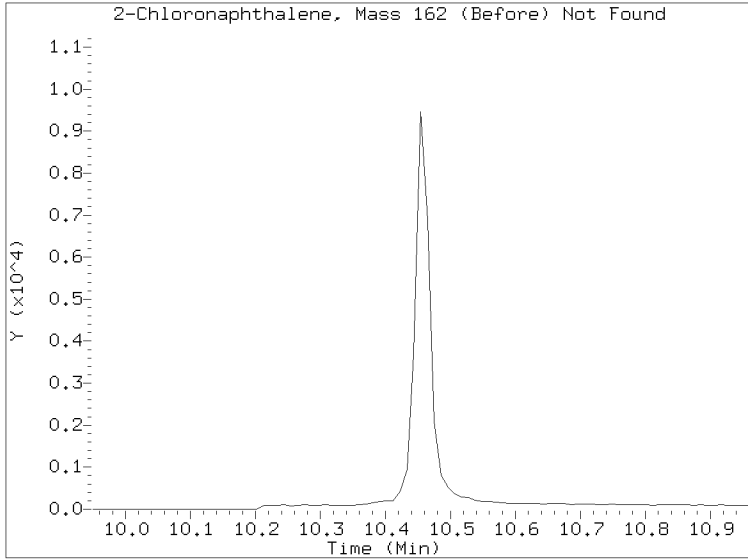
NONE

On Column LOD for nt11.i, 20170505.b\lowsim.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

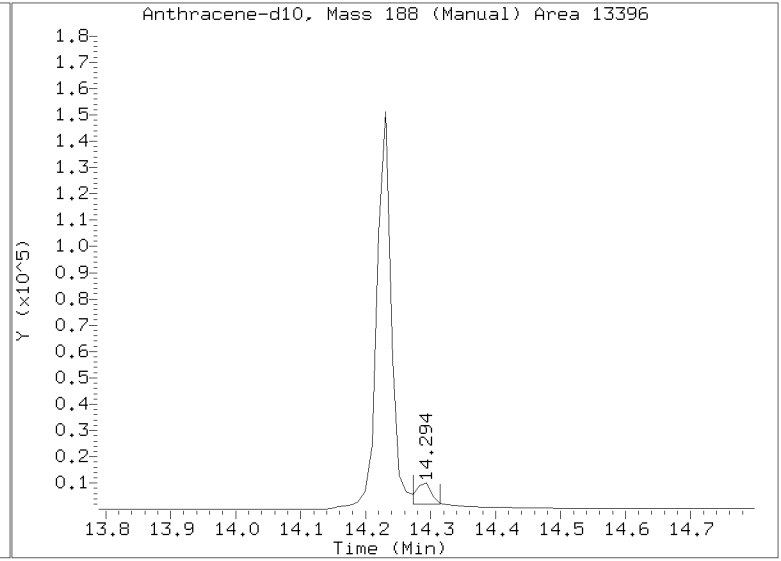
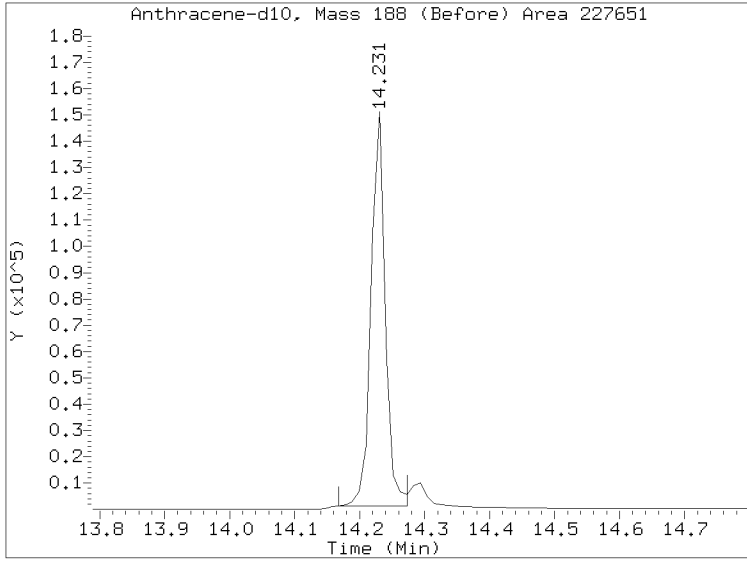
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt11.i/20170505.b/17050505.D
Injection Date: 05-MAY-2017 12:59
Lab ID:SFE0059-CAL1 Client ID:
Report Date: 05/06/2017 08:49



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt11.i/20170505.b/17050505.D
Injection Date: 05-MAY-2017 12:59
Lab ID: SFE0059-CAL1 Client ID:
Report Date: 05/06/2017 08:49



Data File: \\target\share\chem3\nt11.1\20170505.16\17050506.D

Date : 05-May-2017 13:35

Client ID:

Sample Info: SFE0059-CAL5

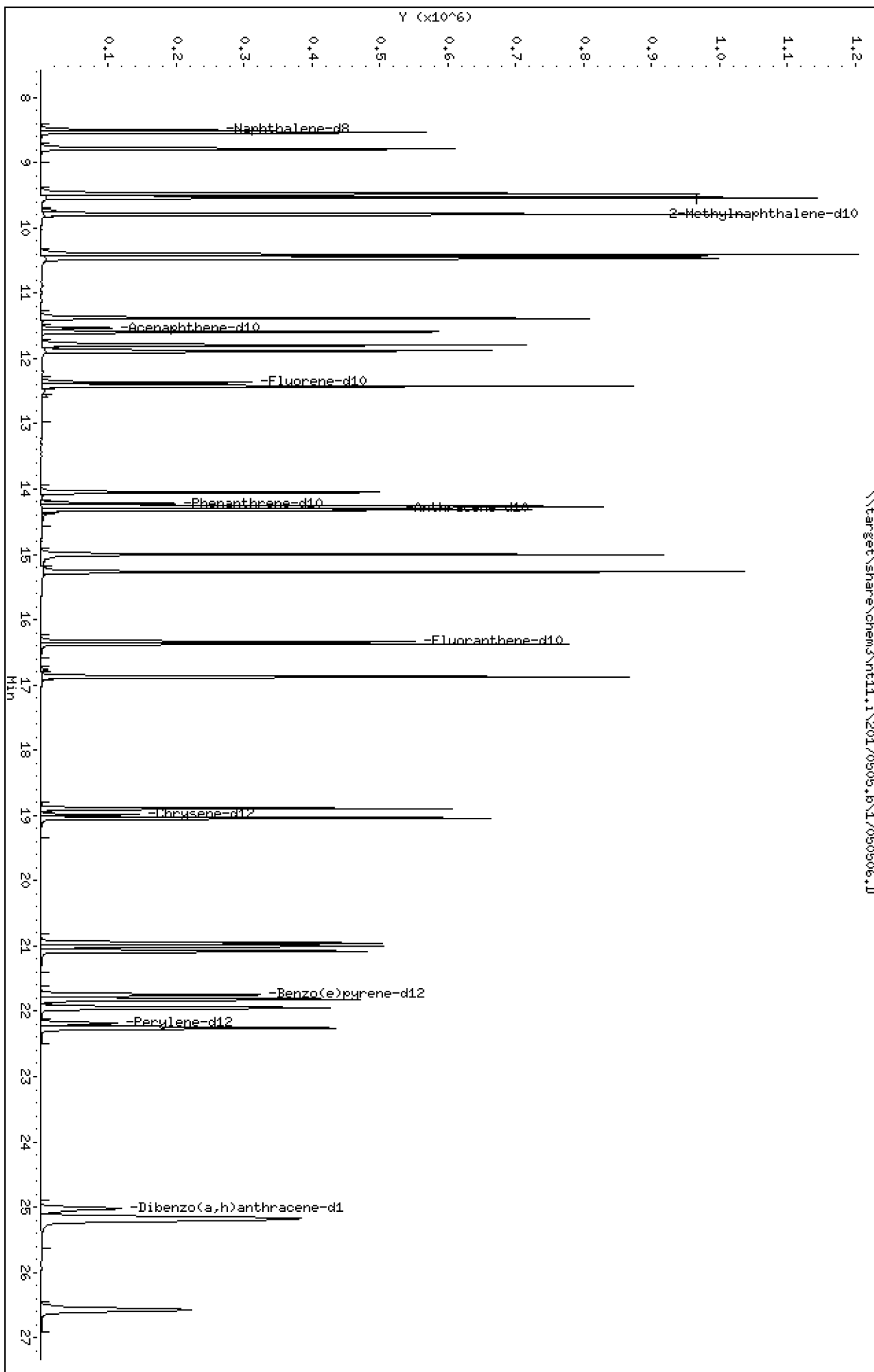
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050506.D

Lab Smp Id: SFE0059-CAL5

Inj Date : 05-MAY-2017 13:35

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL5

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Calibration Sample, Level: 5

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.499	8.499	(1.000)	361073	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	923984	500.000	476
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	770628	500.000	506
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	787688	500.000	509
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	910851	500.000	509
6 1-Methylnaphthalene	142	9.792	9.802	(1.152)	878012	500.000	507
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	816540	500.000	503
8 Biphenyl	154	10.412	10.412	(0.902)	1074063	500.000	441
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.908)	860130	500.000	505
10 Acenaphthylene	152	11.383	11.383	(0.987)	913442	500.000	498
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	156339	200.000	
12 Acenaphthene	153	11.600	11.600	(1.005)	598455	500.000	499
13 Dibenzofuran	168	11.797	11.797	(1.023)	797453	500.000	482
14 2,3,5-Trimethylnaphthalene	170	11.886	11.898	(1.030)	486605	500.000	520
\$ 15 Fluorene-d10	174	12.366	12.378	(1.072)	383564	500.000	500
16 Fluorene	166	12.429	12.429	(1.077)	653009	500.000	506
17 Dibenzothiophene	184	14.052	14.052	(0.987)	674293	500.000	499
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	261454	200.000	
19 Phenanthrene	178	14.272	14.272	(1.003)	943315	500.000	485
\$ 20 Anthracene-d10	188	14.293	14.293	(1.004)	645929	500.000	479
21 Anthracene	178	14.325	14.325	(1.007)	898711	500.000	469
22 Carbazole	167	14.999	14.999	(1.054)	1050702	500.000	471
23 1-Methylphenanthrene	192	15.271	15.271	(1.073)	897050	500.000	509
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.148)	617849	500.000	500
25 Fluoranthene	202	16.377	16.377	(1.151)	913757	500.000	489
26 Pyrene	202	16.876	16.876	(0.889)	913769	500.000	504
27 Benzo(a)anthracene	228	18.900	18.900	(0.995)	728636	500.000	511
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	200348	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	748382	500.000	508
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	695436	500.000	514
31 Benzo(k)fluoranthene	252	21.001	21.010	(0.947)	692825	500.000	517
32 Benzo(j)fluoranthene	252	21.077	21.077	(0.950)	649428	500.000	517
\$ 33 Benzo(e)pyrene-d12	264	21.750	21.750	(0.981)	580631	500.000	513

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
=====	=====	=====	=====	=====	=====	=====	=====
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	648060	500.000	516
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	634034	500.000	518
* 36 Perylene-d12	264	22.182	22.182	(1.000)	216363	200.000	
37 Perylene	252	22.259	22.259	(1.003)	648994	500.000	515
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	426661	500.000	529
39 Dibenzo(a,h)anthracene	278	25.160	25.171	(1.134)	554838	500.000	537
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	682676	500.000	529
41 Benzo(g,h,i)perylene	276	26.578	26.567	(1.198)	573754	500.000	520

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050506.D
 Lab Smp Id: SFE0059-CAL5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	361073	-2.76
11 Acenaphthene-d10	154428	77214	308856	156339	1.24
18 Phenanthrene-d10	256956	128478	513912	261454	1.75
28 Chrysene-d12	208629	104315	417258	200348	-3.97
36 Perylene-d12	225431	112716	450862	216363	-4.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	-0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	-0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	-0.00

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

REVIEW SUMMARY FOR FILE - 17050506.D

Lab ID: SFE0059-CAL5

nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 13:35

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Data File: \\target\share\chem3\nt11.1\20170505.16\17050507.D

Date : 05-May-2017 14:11

Client ID:

Sample Info: SFE0059-CAL2

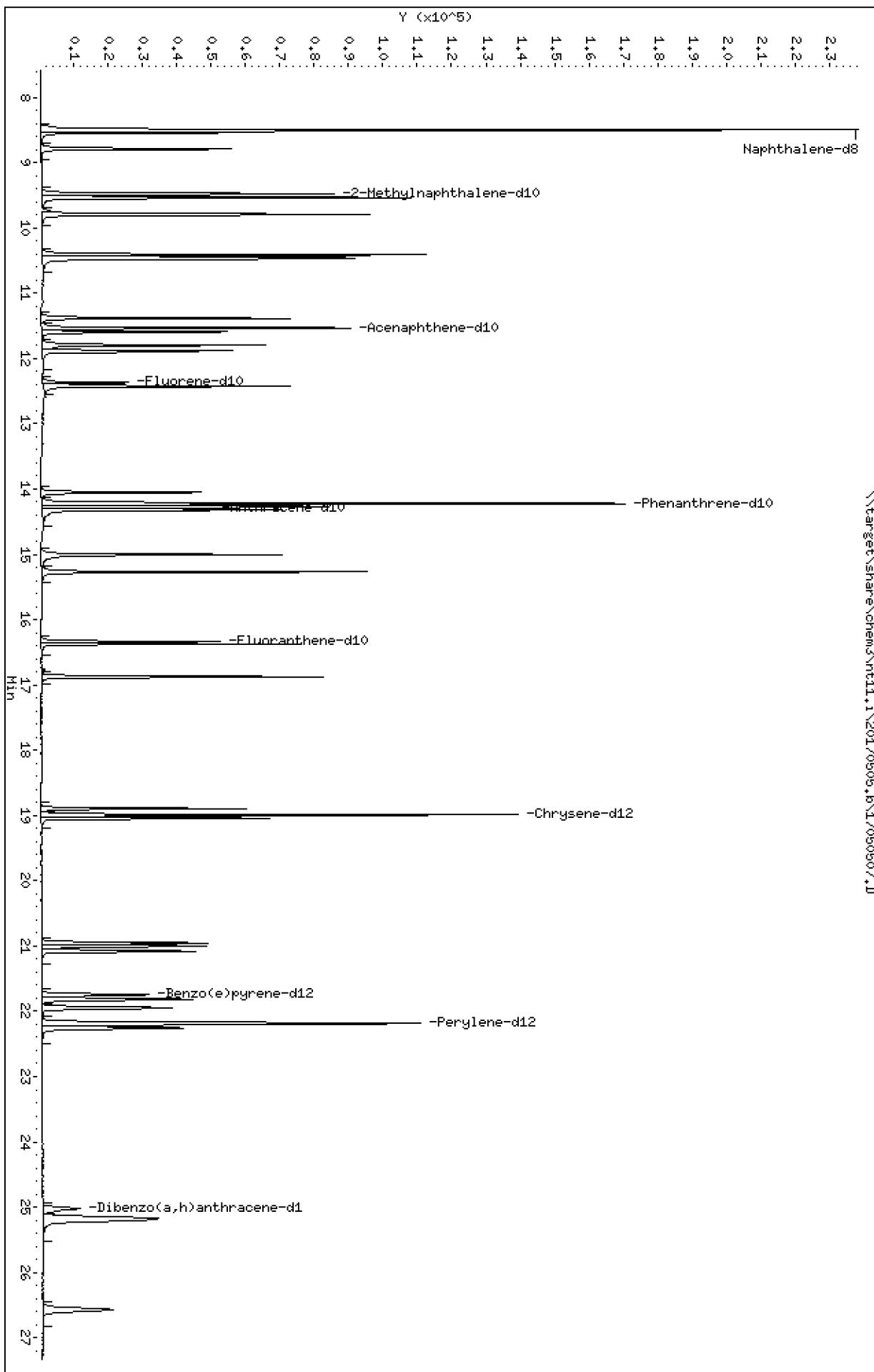
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050507.D

Lab Smp Id: SFE0059-CAL2

Inj Date : 05-MAY-2017 14:11

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL2

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Calibration Sample, Level: 2

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.500	8.499	(1.000)	358455	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	98634	50.0000	51.2
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	73262	50.0000	48.5
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	77745	50.0000	50.6
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	90154	50.0000	50.7
6 1-Methylnaphthalene	142	9.803	9.802	(1.153)	88102	50.0000	51.3
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	74319	50.0000	49.2
8 Biphenyl	154	10.412	10.412	(0.902)	110348	50.0000	48.8 (M)
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.908)	76192	50.0000	48.0
10 Acenaphthylene	152	11.383	11.383	(0.987)	89029	50.0000	52.2
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	145440	200.000	
12 Acenaphthene	153	11.600	11.600	(1.005)	59028	50.0000	53.0
13 Dibenzofuran	168	11.797	11.797	(1.023)	85963	50.0000	55.9
14 2,3,5-Trimethylnaphthalene	170	11.886	11.898	(1.030)	42936	50.0000	49.3
\$ 15 Fluorene-d10	174	12.379	12.378	(1.073)	36241	50.0000	50.7
16 Fluorene	166	12.429	12.429	(1.077)	61761	50.0000	51.5
17 Dibenzothiophene	184	14.052	14.052	(0.987)	64994	50.0000	52.3
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	240109	200.000	
19 Phenanthrene	178	14.273	14.272	(1.003)	95429	50.0000	53.4
\$ 20 Anthracene-d10	188	14.294	14.293	(1.004)	68393	50.0000	55.2
21 Anthracene	178	14.325	14.325	(1.007)	96795	50.0000	55.0
22 Carbazole	167	15.000	14.999	(1.054)	109595	50.0000	53.5
23 1-Methylphenanthrene	192	15.271	15.271	(1.073)	82927	50.0000	51.2
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.148)	59321	50.0000	52.3
25 Fluoranthene	202	16.377	16.377	(1.151)	91291	50.0000	53.1
26 Pyrene	202	16.876	16.876	(0.889)	93012	50.0000	50.8
27 Benzo(a)anthracene	228	18.892	18.900	(0.995)	71617	50.0000	49.8
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	202079	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	74101	50.0000	49.9
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	68526	50.0000	51.1
31 Benzo(k)fluoranthene	252	21.001	21.010	(0.947)	66941	50.0000	50.4
32 Benzo(j)fluoranthene	252	21.078	21.077	(0.950)	63452	50.0000	50.9
\$ 33 Benzo(e)pyrene-d12	264	21.741	21.750	(0.980)	57272	50.0000	51.0

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL		
=====	=====	=====	=====	=====	=====	=====	=====		
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	63080	50.0000	50.6		
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	61294	50.0000	50.5		
* 36 Perylene-d12	264	22.183	22.182	(1.000)	214583	200.000			
37 Perylene	252	22.259	22.259	(1.003)	62979	50.0000	50.4		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	39910	50.0000	49.9		
39 Dibenzo(a,h)anthracene	278	25.171	25.171	(1.135)	50078	50.0000	48.9		
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	62840	50.0000	49.1		
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	54418	50.0000	49.7		

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050507.D
 Lab Smp Id: SFE0059-CAL2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	358455	-3.47
11 Acenaphthene-d10	154428	77214	308856	145440	-5.82
18 Phenanthrene-d10	256956	128478	513912	240109	-6.56
28 Chrysene-d12	208629	104315	417258	202079	-3.14
36 Perylene-d12	225431	112716	450862	214583	-4.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050507.D

Lab ID: SFE0059-CAL2
nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 14:11

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

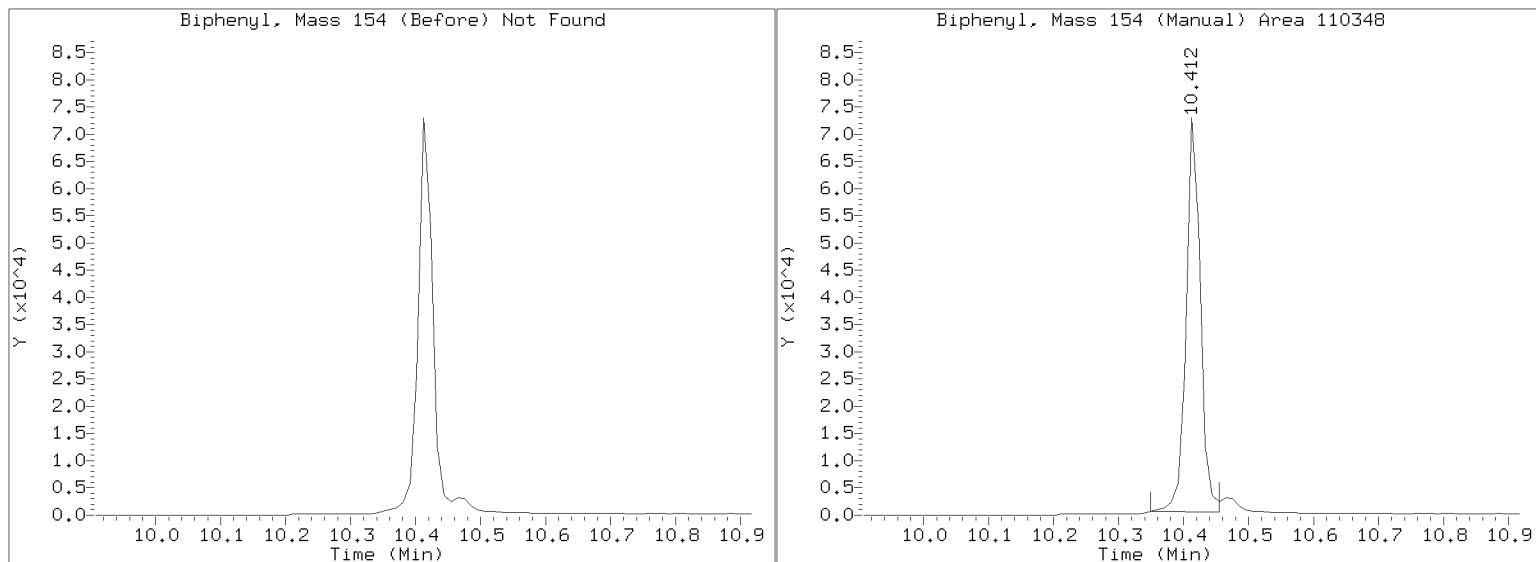
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt11.i/20170505.b/17050507.D

Injection Date: 05-MAY-2017 14:11

Lab ID: SFE0059-CAL2 Client ID:

Report Date: 05/06/2017 08:49



Data File: \\target\share\chem3\nt11.1\20170505.16\17050508.D

Date : 05-May-2017 14:47

Client ID:

Sample Info: SFE0059-CAL3

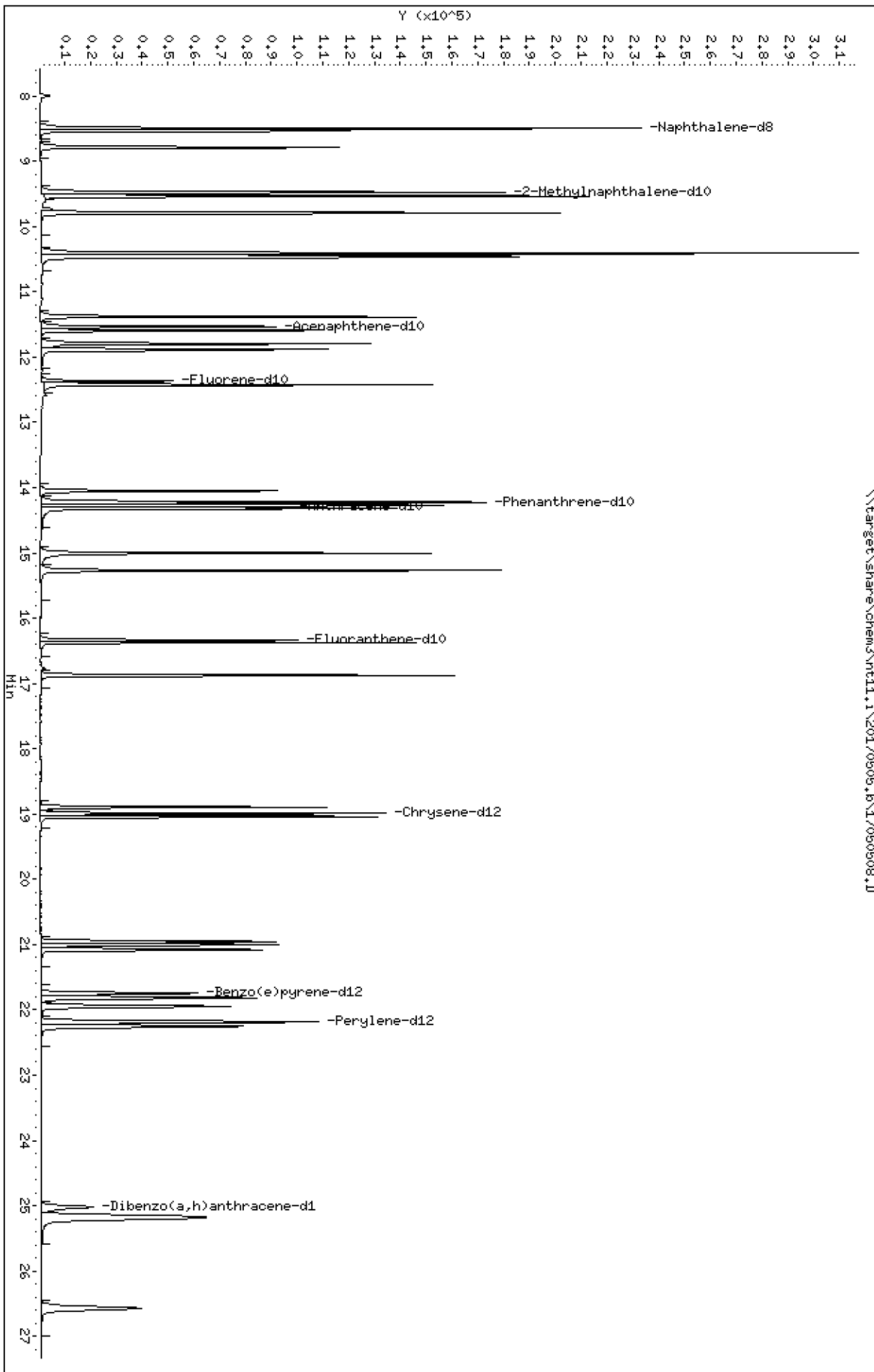
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt11.1\20170505.16\17050508.D



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050508.D

Lab Smp Id: SFE0059-CAL3

Inj Date : 05-MAY-2017 14:47

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-CAL3

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.499	8.499	(1.000)	353401	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	193481	100.000	102
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	151368	100.000	102
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	155546	100.000	103
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	180534	100.000	103
6 1-Methylnaphthalene	142	9.792	9.802	(1.152)	174330	100.000	103
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	155033	100.000	102
8 Biphenyl	154	10.412	10.412	(0.902)	286889	100.000	126
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.908)	169010	100.000	106
10 Acenaphthylene	152	11.383	11.383	(0.987)	172931	100.000	101
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	145861	200.000	
12 Acenaphthene	153	11.591	11.600	(1.005)	112140	100.000	100
13 Dibenzofuran	168	11.797	11.797	(1.023)	155479	100.000	101
14 2,3,5-Trimethylnaphthalene	170	11.886	11.898	(1.030)	85399	100.000	97.7
\$ 15 Fluorene-d10	174	12.366	12.378	(1.072)	69261	100.000	96.7
16 Fluorene	166	12.429	12.429	(1.077)	117996	100.000	98.1
17 Dibenzothiophene	184	14.052	14.052	(0.987)	125836	100.000	102
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	238193	200.000	
19 Phenanthrene	178	14.272	14.272	(1.003)	184290	100.000	104
\$ 20 Anthracene-d10	188	14.293	14.293	(1.004)	123279	100.000	100
21 Anthracene	178	14.325	14.325	(1.007)	184776	100.000	106
22 Carbazole	167	15.000	14.999	(1.054)	211930	100.000	104
23 1-Methylphenanthrene	192	15.271	15.271	(1.073)	162721	100.000	101
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.148)	113968	100.000	101
25 Fluoranthene	202	16.377	16.377	(1.151)	175924	100.000	103
26 Pyrene	202	16.876	16.876	(0.889)	176871	100.000	103
27 Benzo(a)anthracene	228	18.892	18.900	(0.995)	136027	100.000	100
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	190128	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	145165	100.000	104
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	131663	100.000	102
31 Benzo(k)fluoranthene	252	21.001	21.010	(0.947)	128459	100.000	100
32 Benzo(j)fluoranthene	252	21.078	21.077	(0.950)	122355	100.000	102
\$ 33 Benzo(e)pyrene-d12	264	21.741	21.750	(0.980)	109036	100.000	101

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)		
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	121088	100.000	101		
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	115844	100.000	99.0		
* 36 Perylene-d12	264	22.183	22.182	(1.000)	206951	200.000			
37 Perylene	252	22.259	22.259	(1.003)	120419	100.000	99.9		
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	76368	100.000	98.9		
39 Dibenzo(a,h)anthracene	278	25.160	25.171	(1.134)	97257	100.000	98.4		
40 Indeno(1,2,3-cd)pyrene	276	25.193	25.204	(1.136)	121216	100.000	98.2		
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	104005	100.000	98.5		

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050508.D
 Lab Smp Id: SFE0059-CAL3
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	353401	-4.83
11 Acenaphthene-d10	154428	77214	308856	145861	-5.55
18 Phenanthrene-d10	256956	128478	513912	238193	-7.30
28 Chrysene-d12	208629	104315	417258	190128	-8.87
36 Perylene-d12	225431	112716	450862	206951	-8.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050508.D

Lab ID: SFE0059-CAL3

nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 14:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Data File: \\target\share\chem3\nt11.1\20170505.16\17050509.D

Date: 05-May-2017 15:23

Client ID:

Sample Info: SFE0059-SCW1

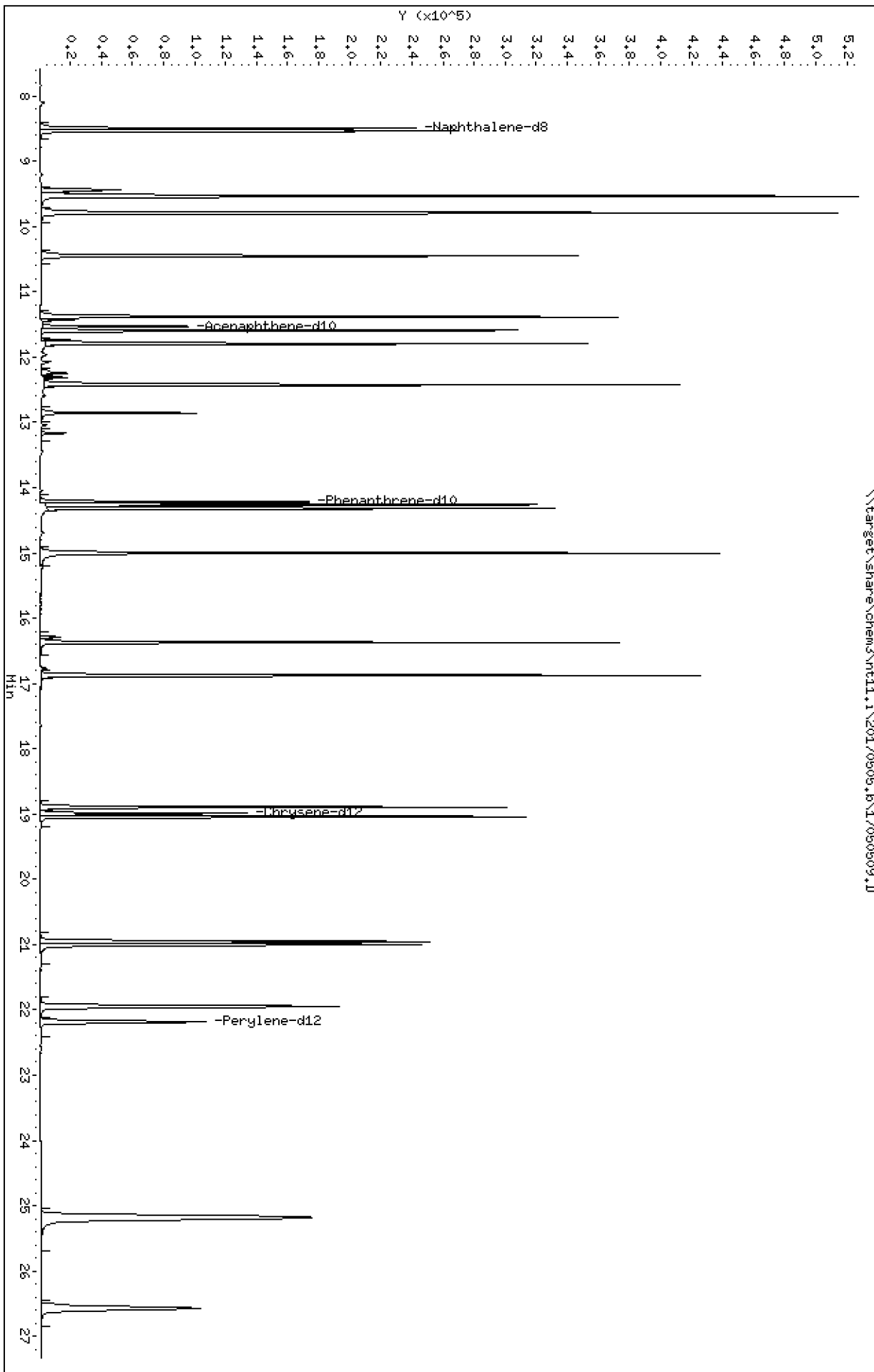
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

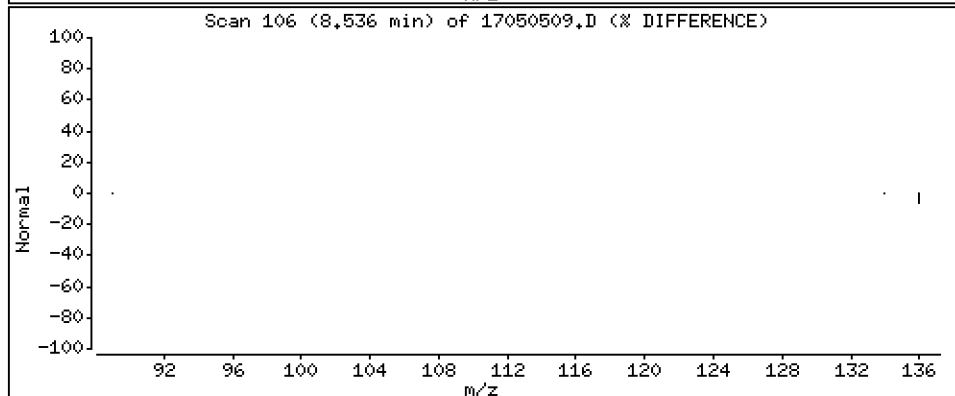
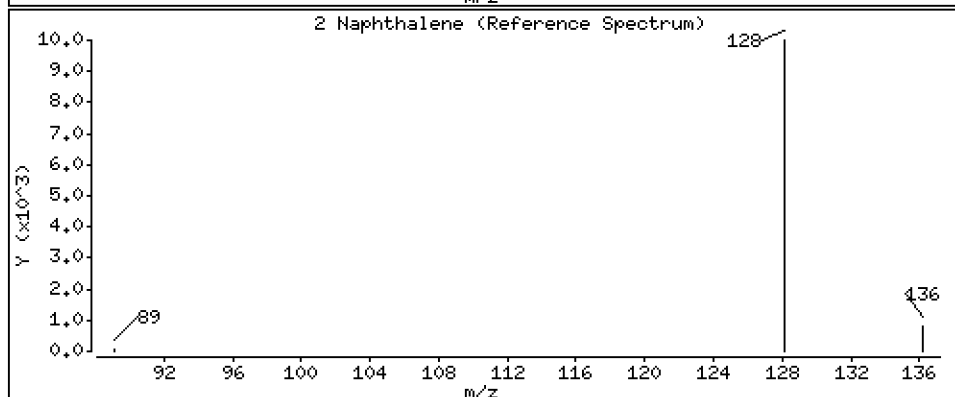
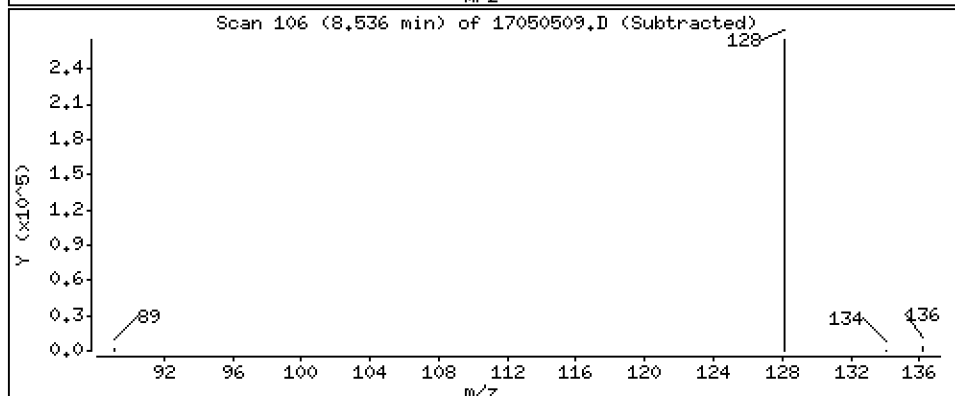
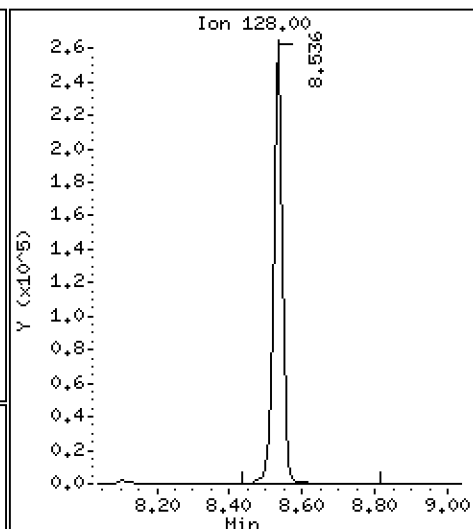
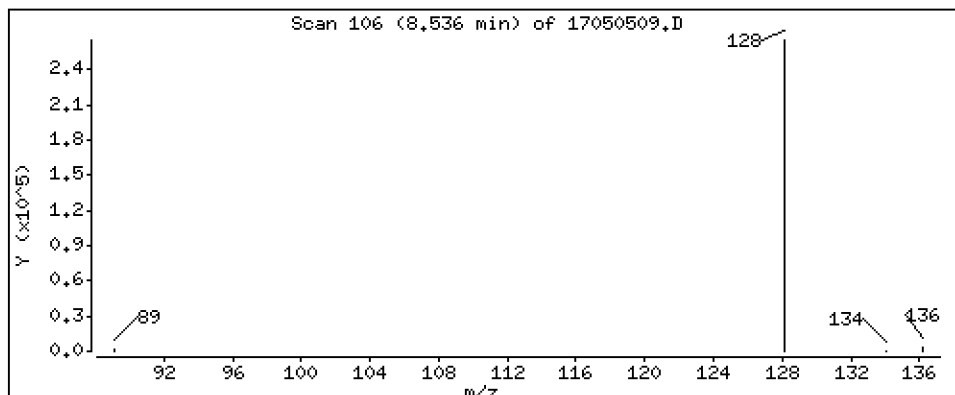
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

2 Naphthalene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

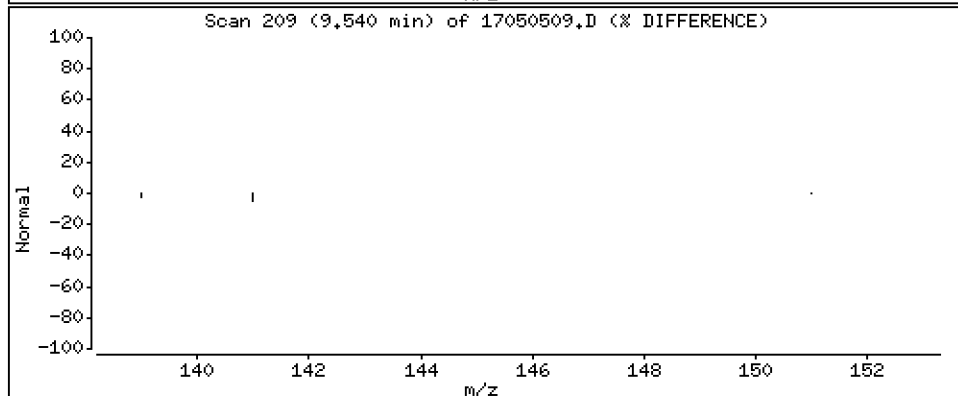
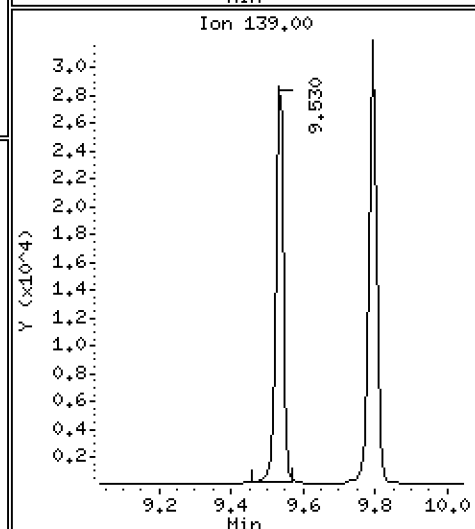
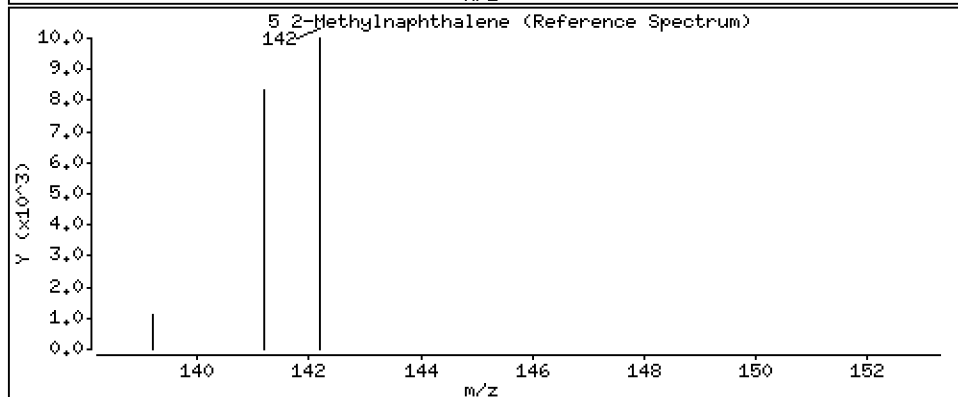
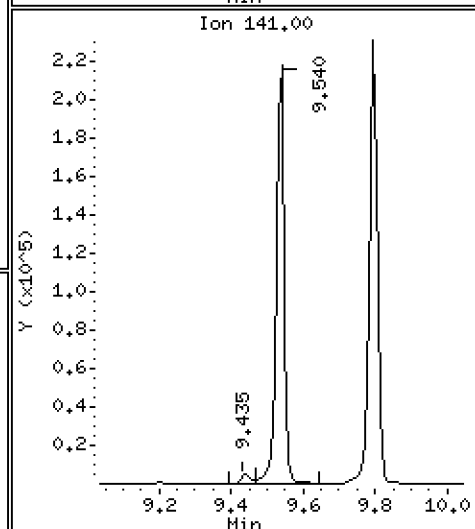
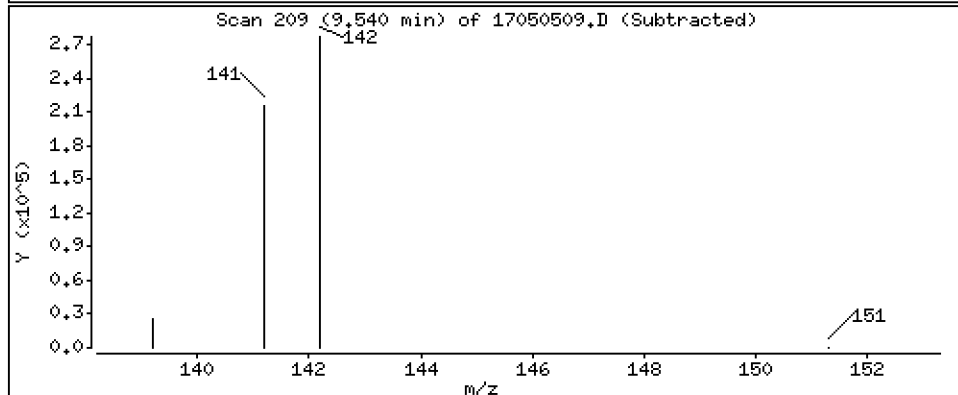
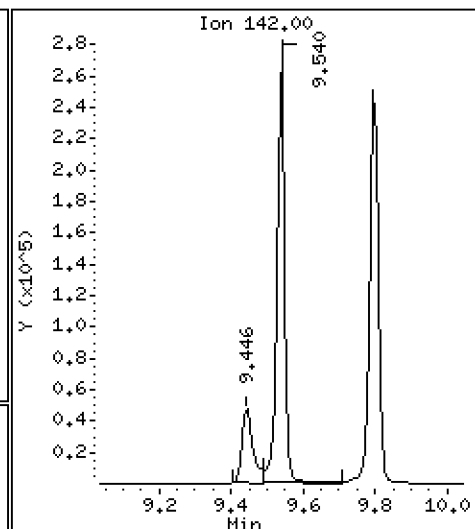
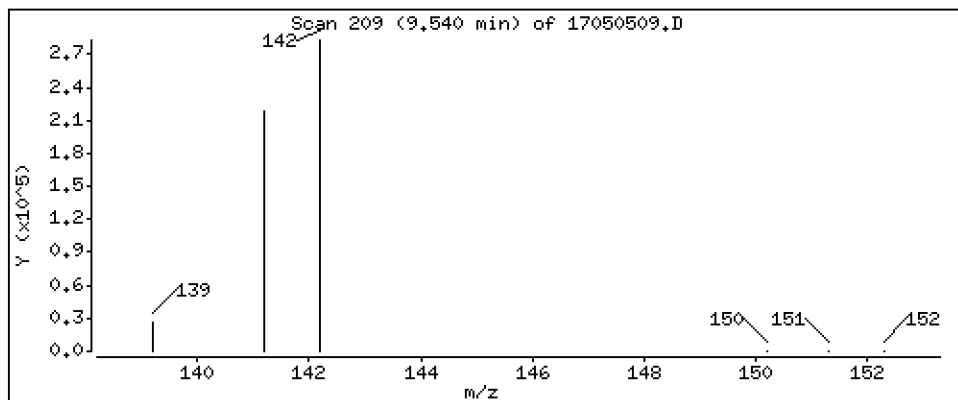
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

5 2-Methylnaphthalene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

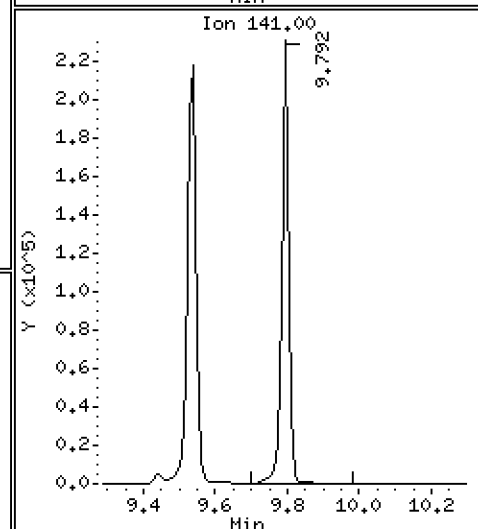
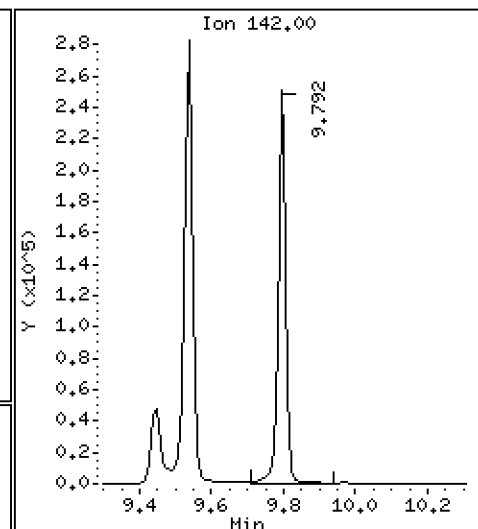
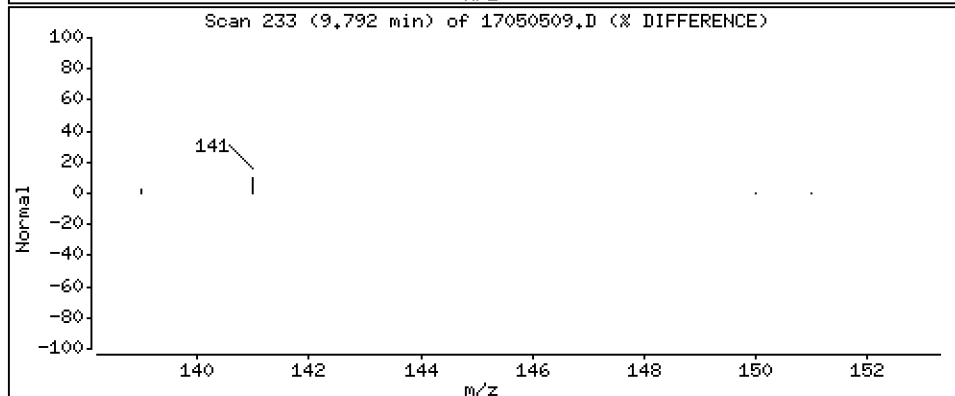
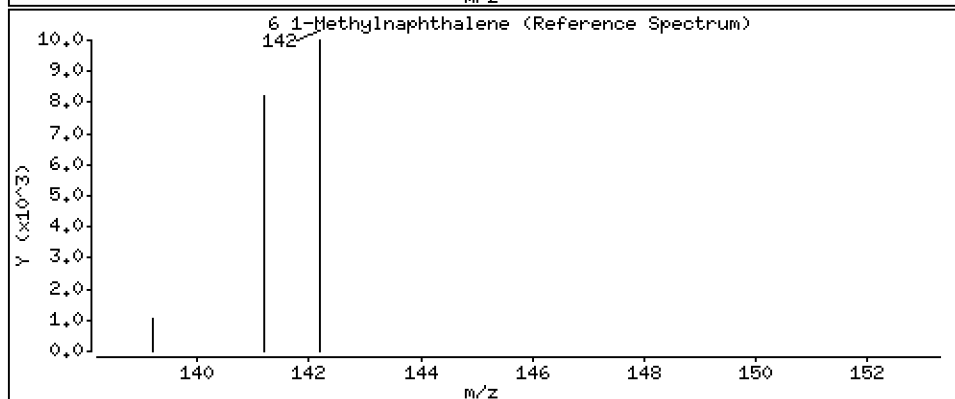
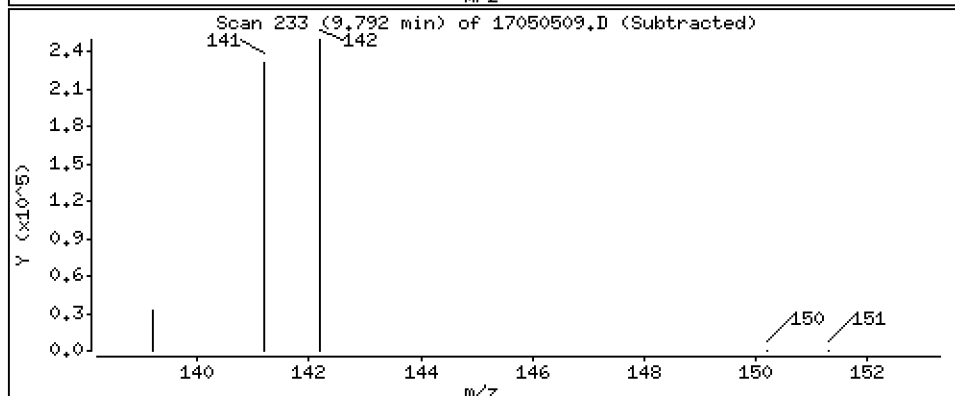
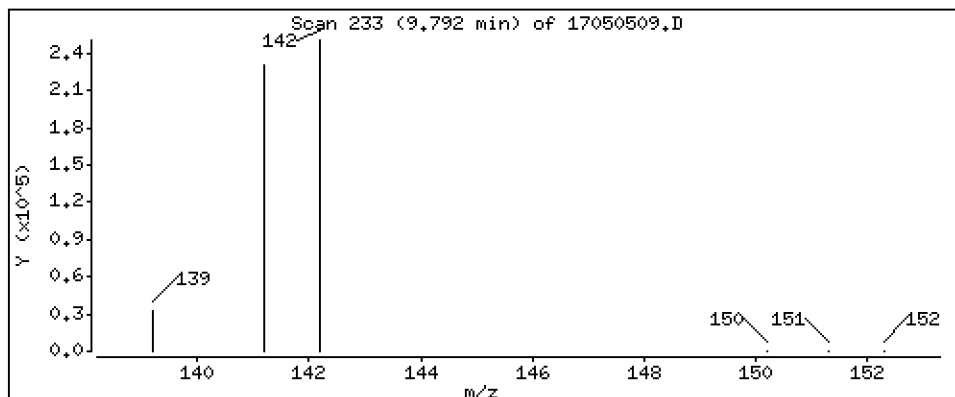
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

6-1-Methylnaphthalene

Concentration: 247 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

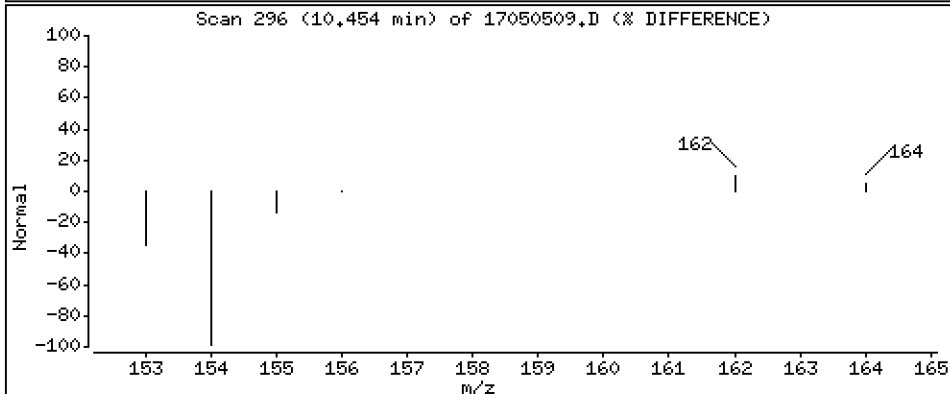
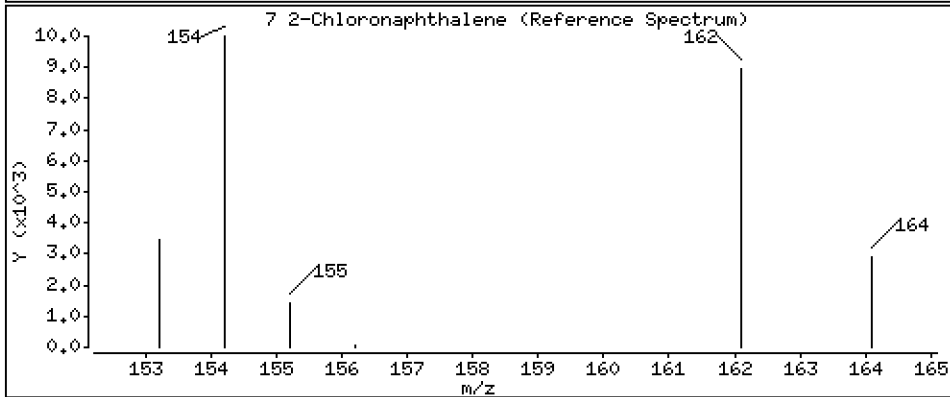
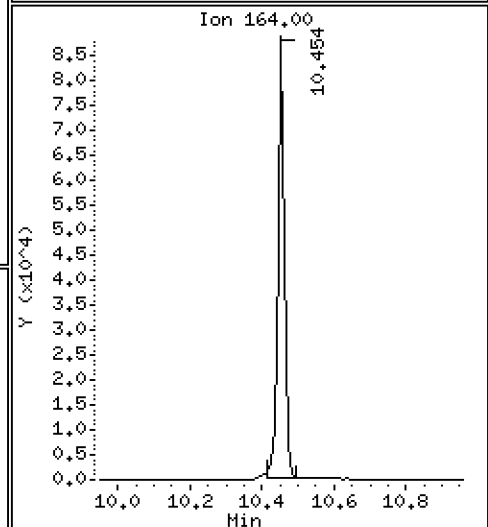
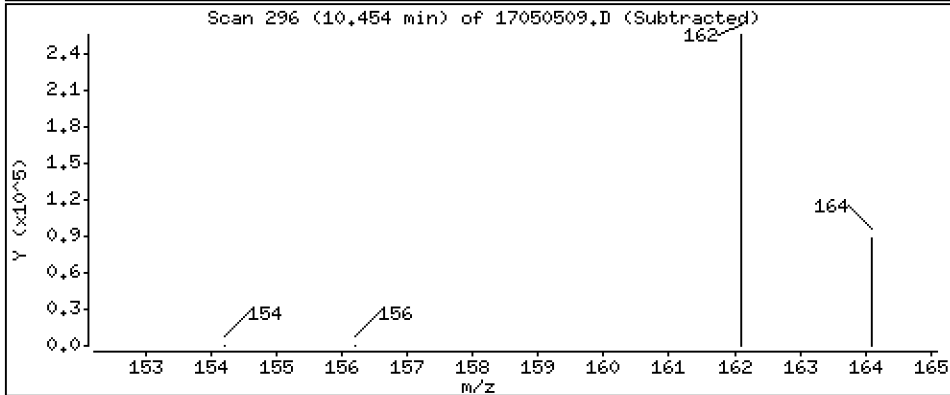
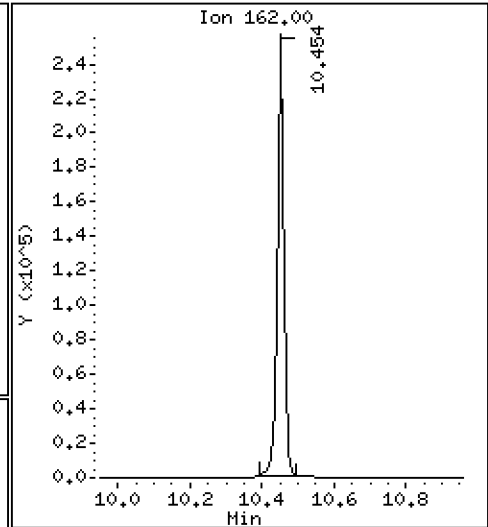
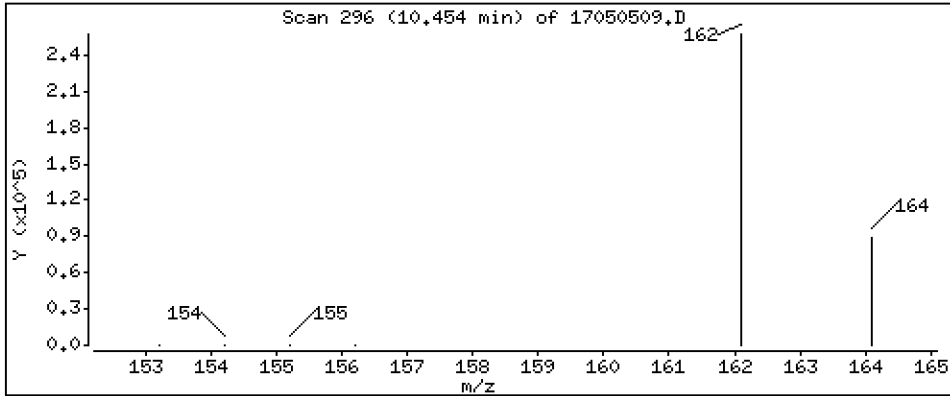
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 2-Chloronaphthalene

Concentration: 246 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

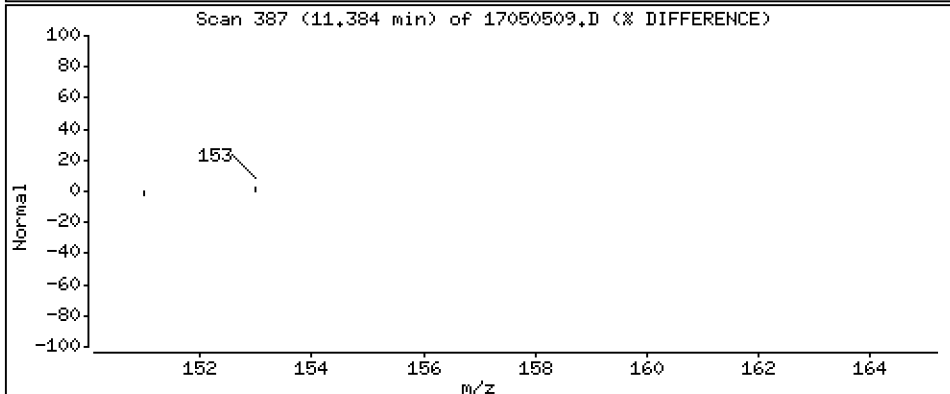
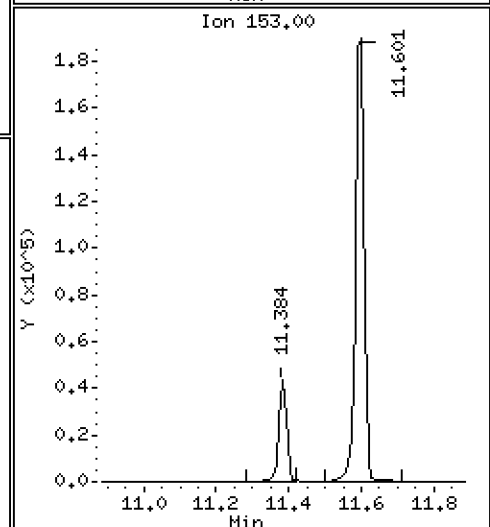
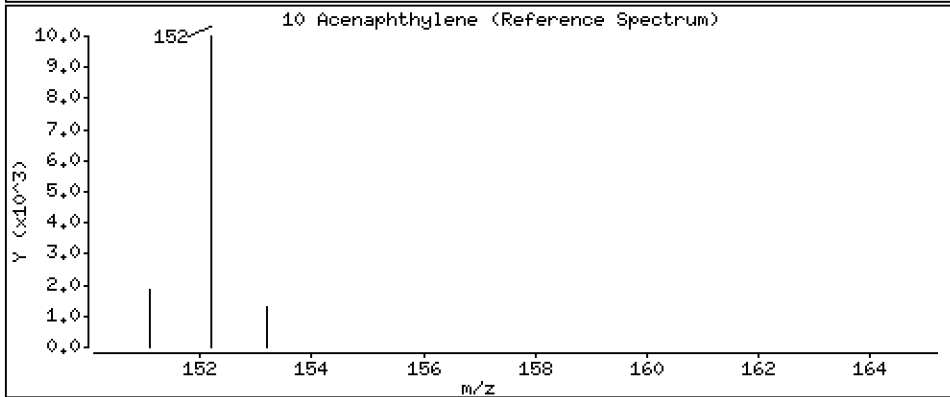
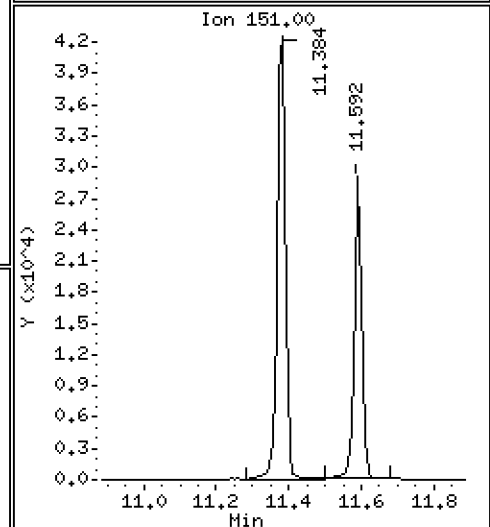
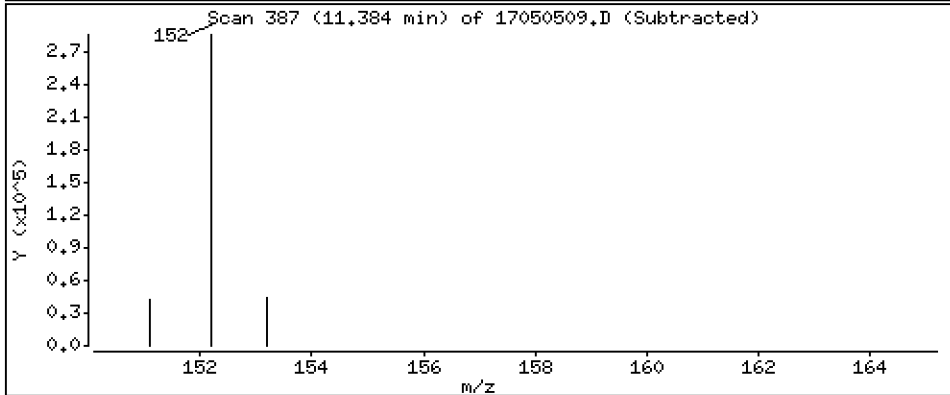
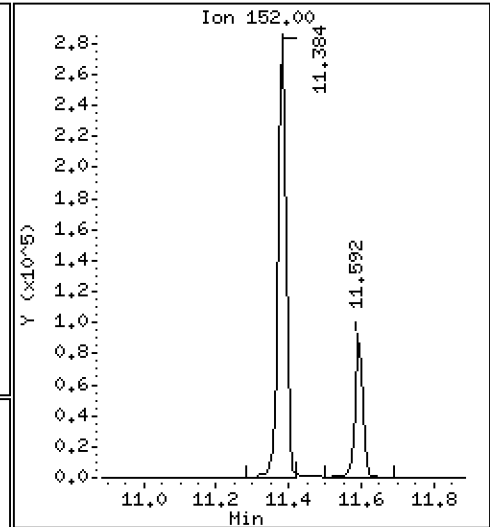
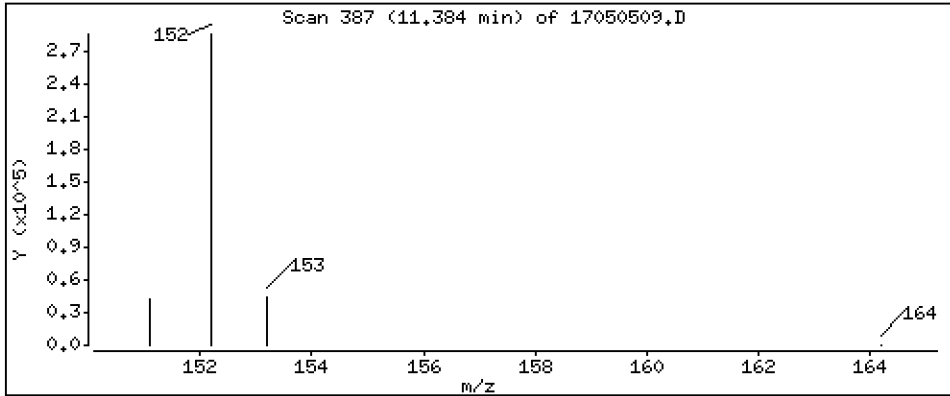
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

10 Acenaphthylene

Concentration: 247 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

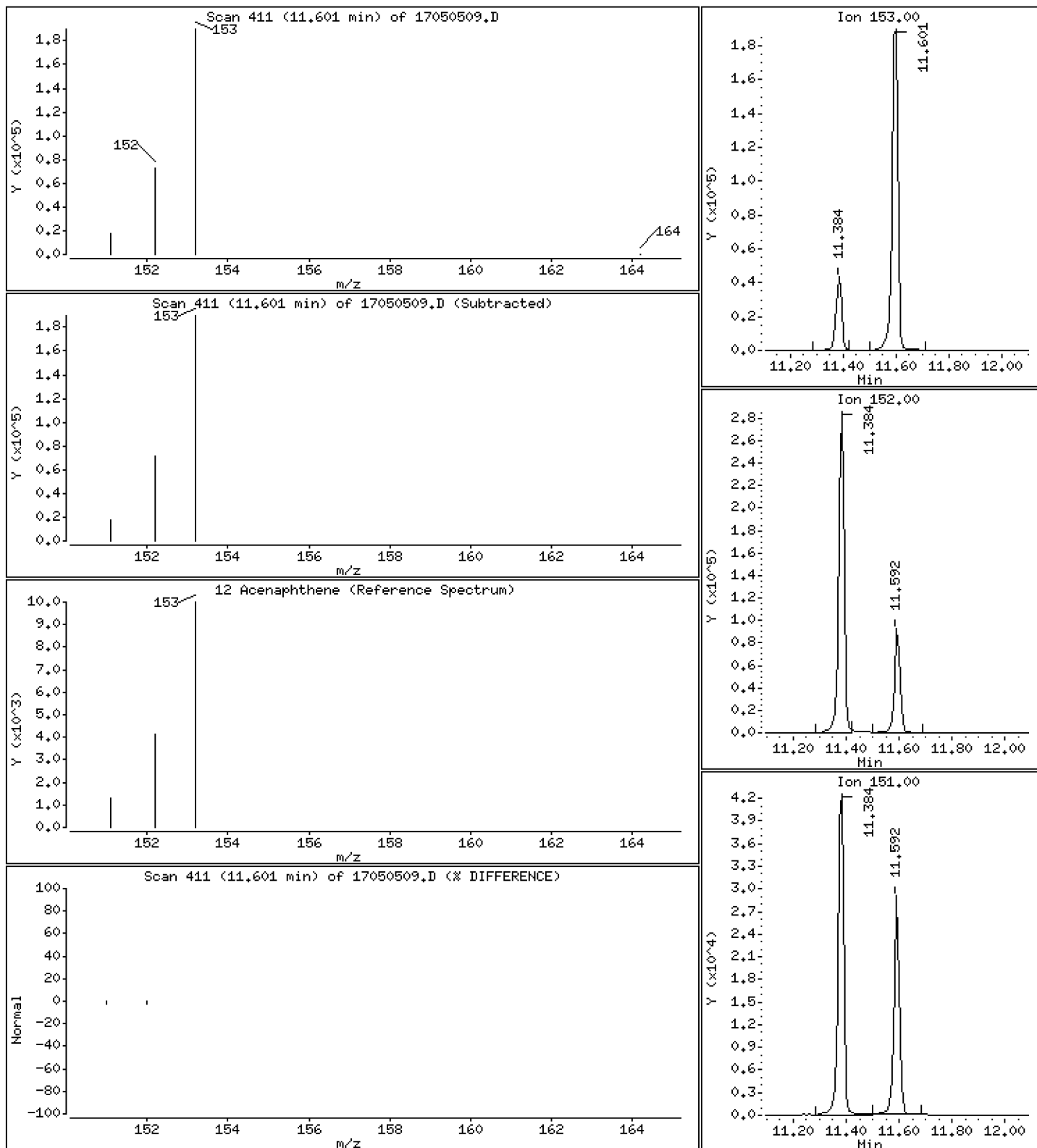
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Acenaphthene

Concentration: 277 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

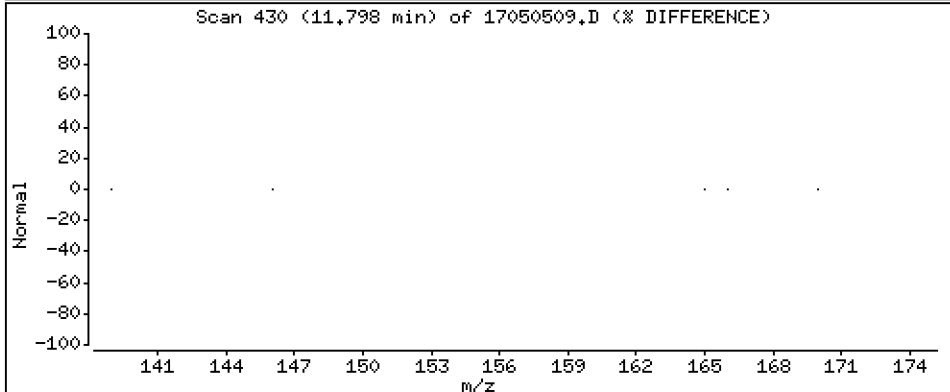
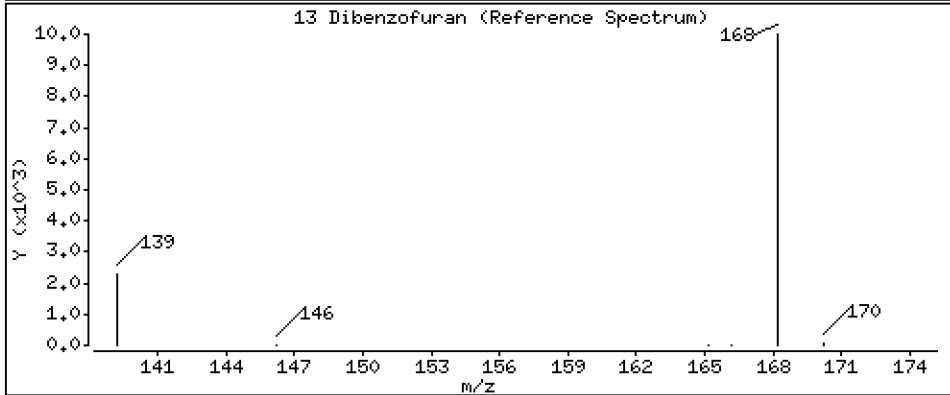
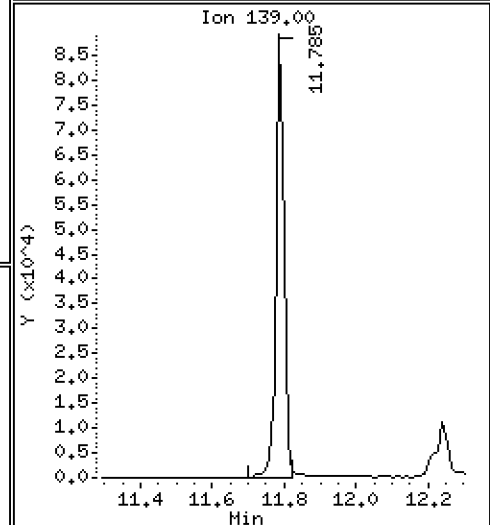
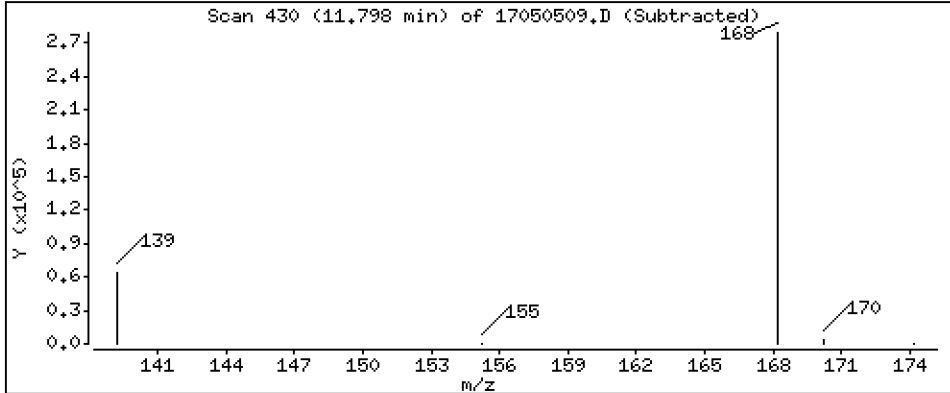
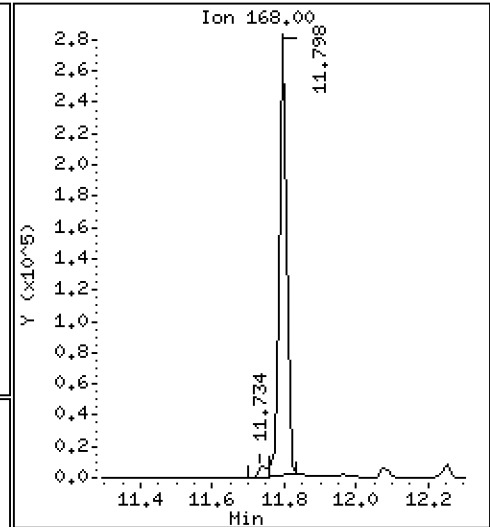
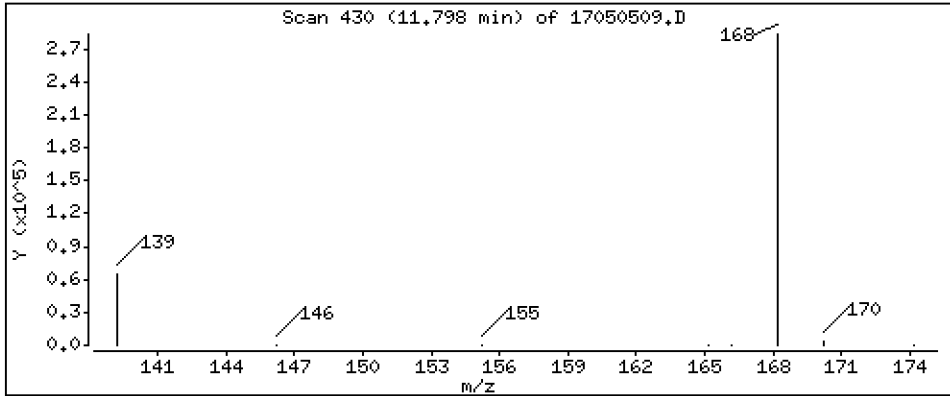
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

13 Dibenzofuran

Concentration: 253 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

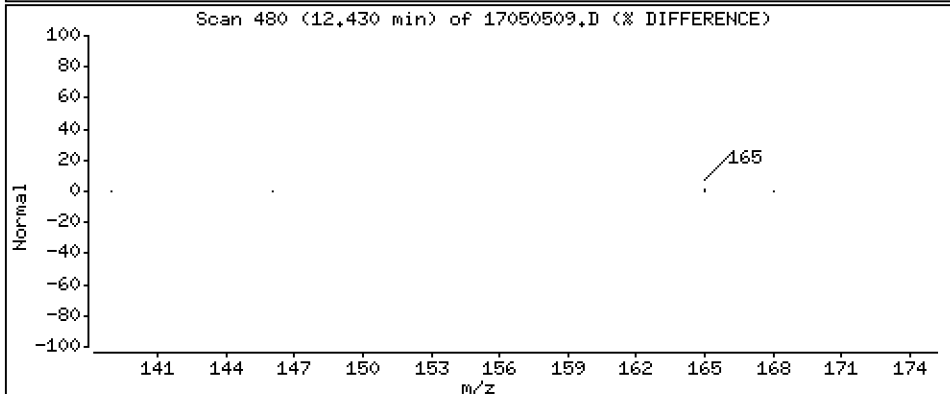
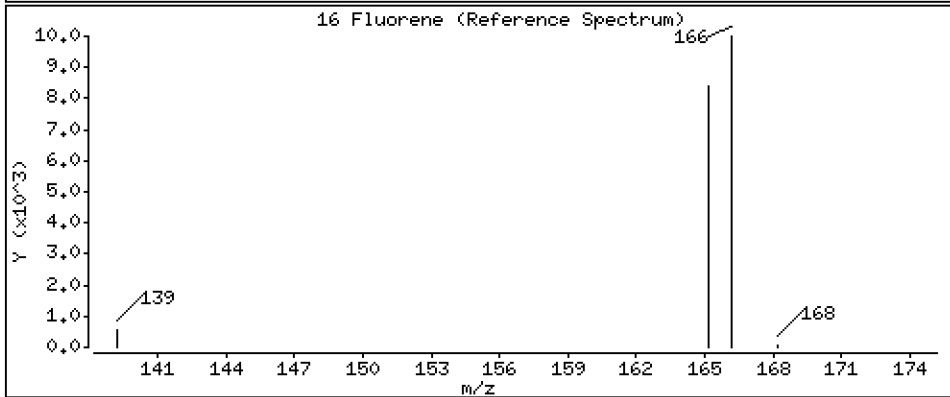
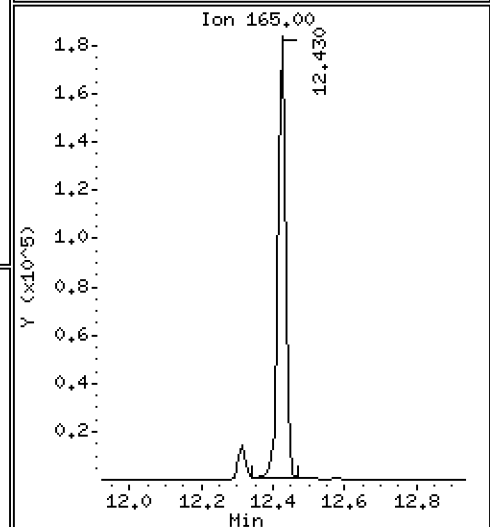
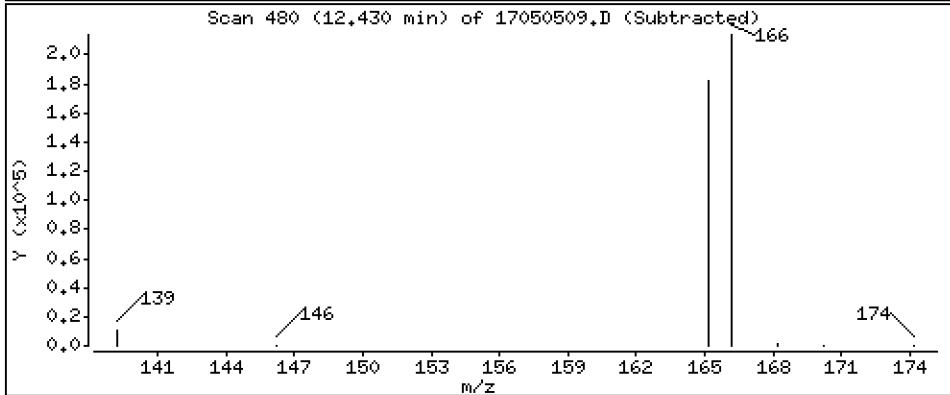
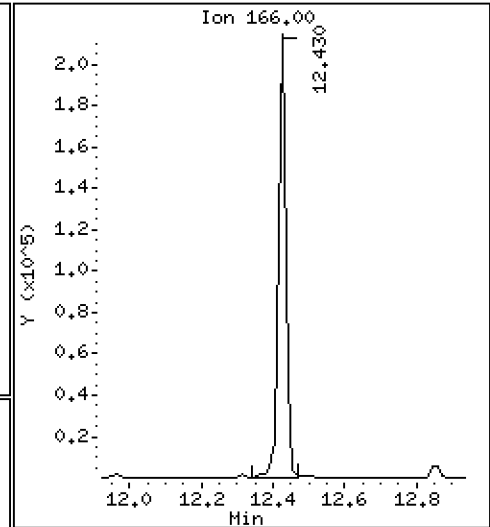
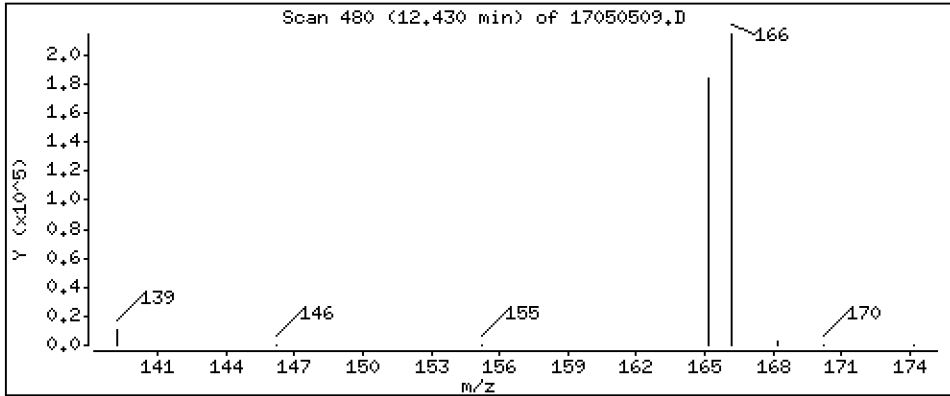
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 Fluorene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

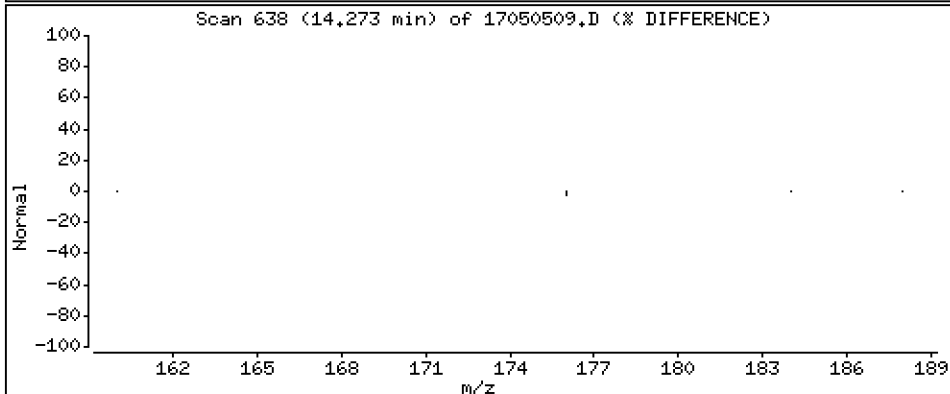
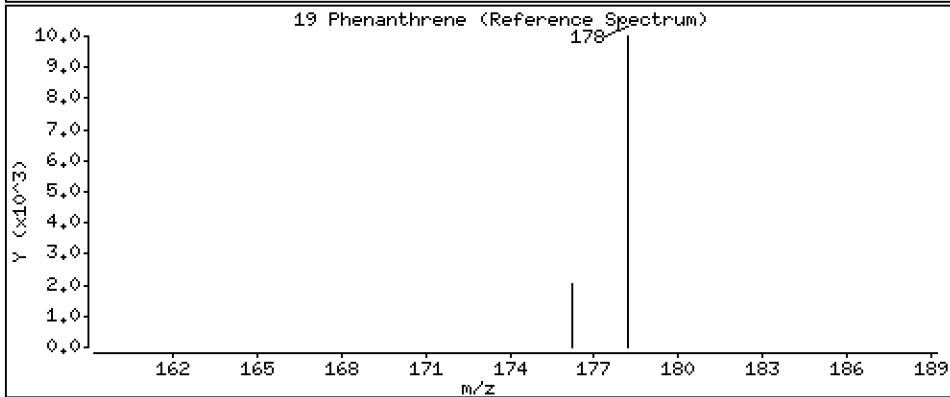
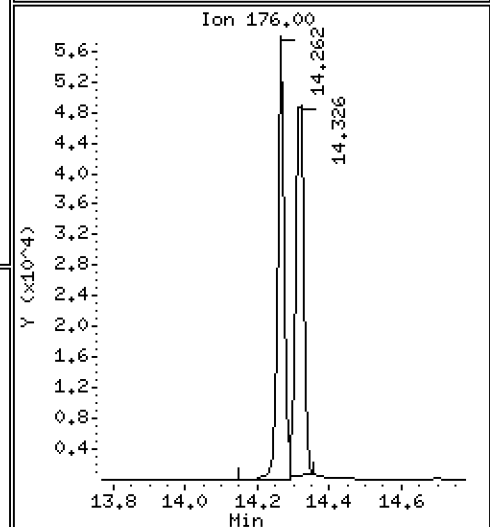
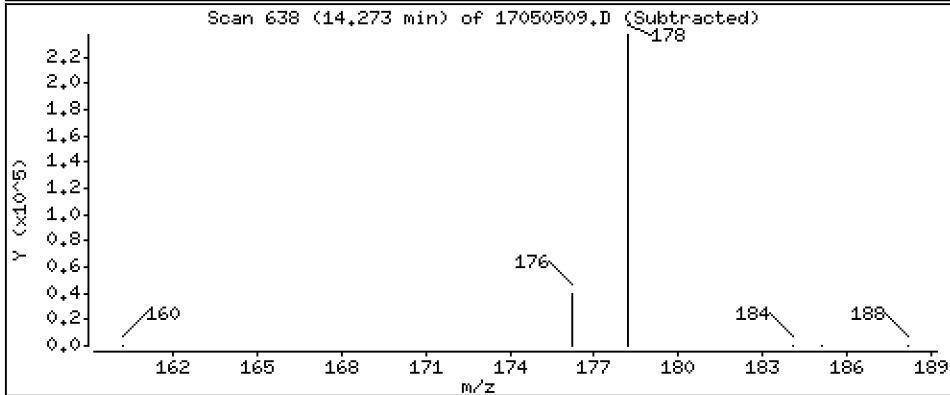
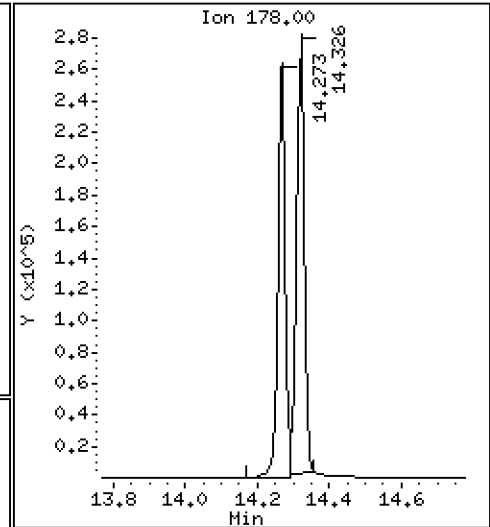
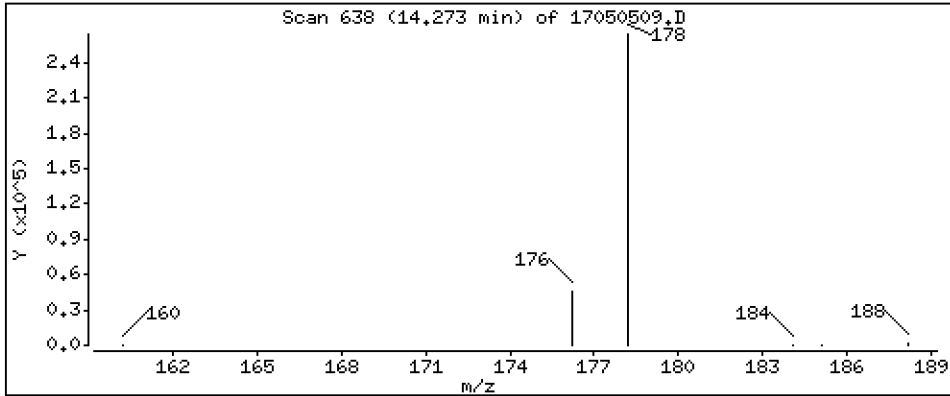
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 Phenanthrene

Concentration: 256 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

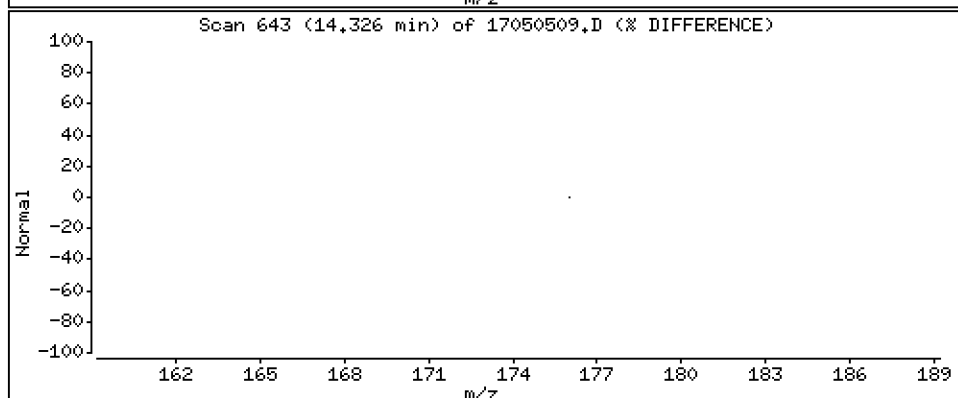
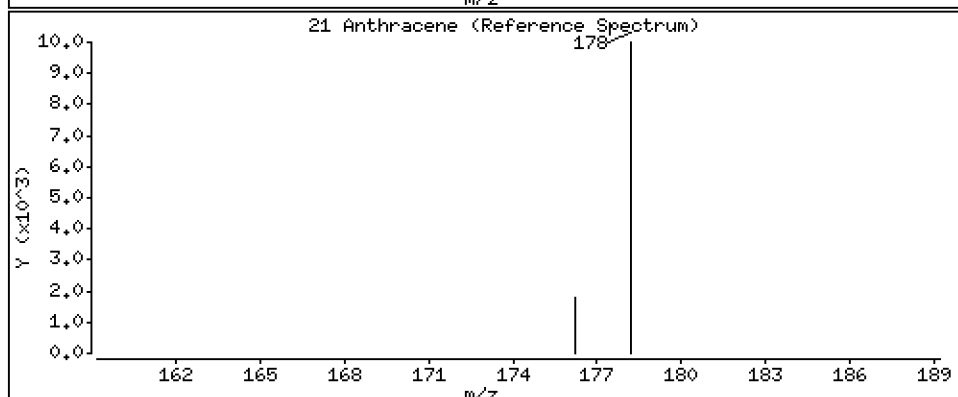
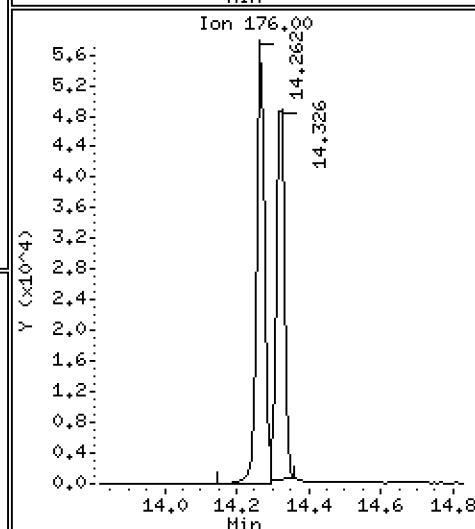
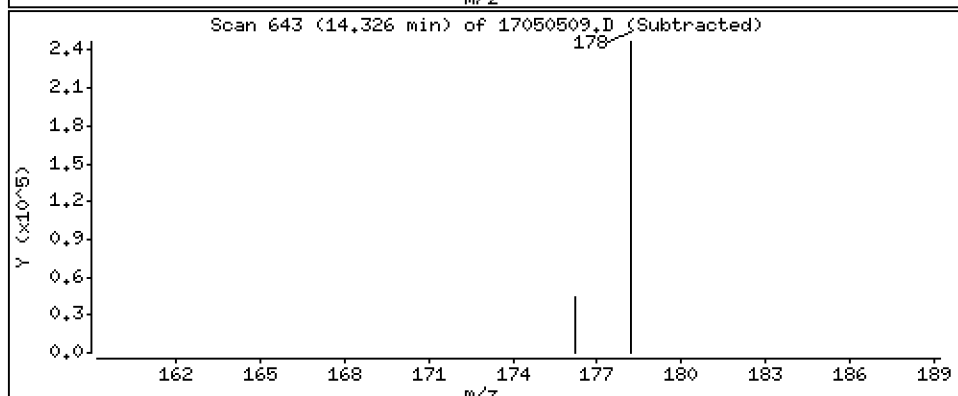
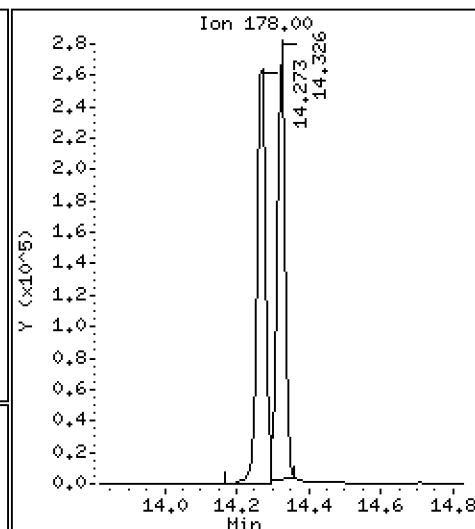
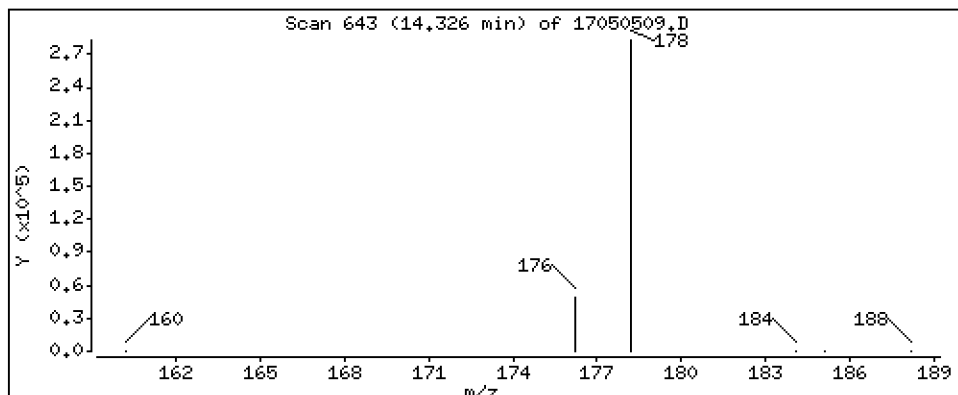
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

21 Anthracene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

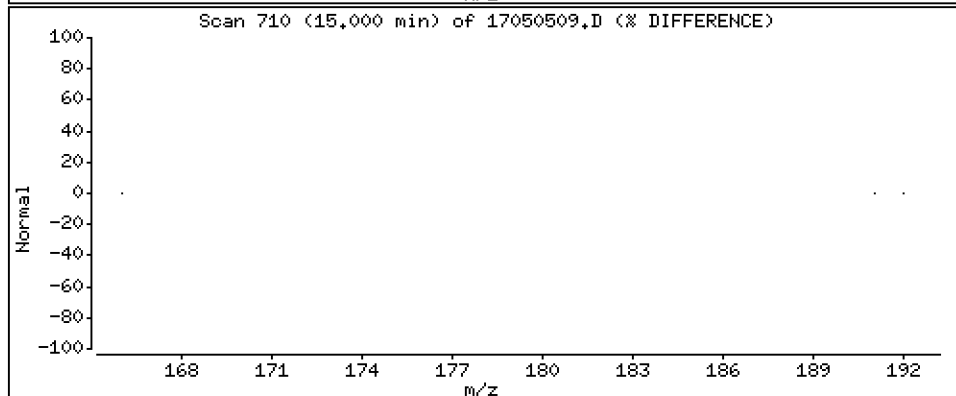
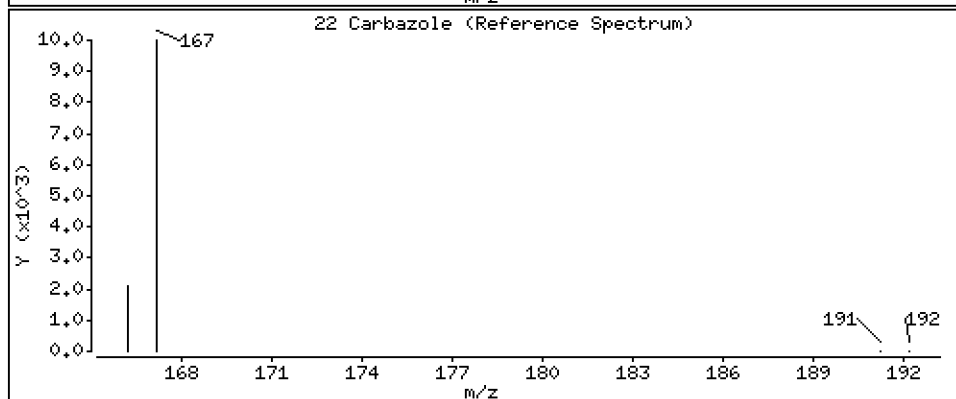
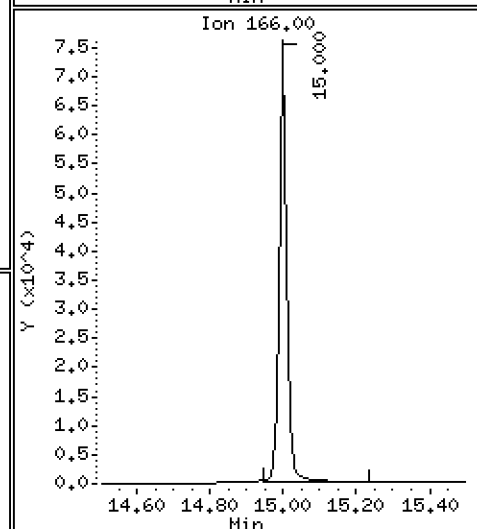
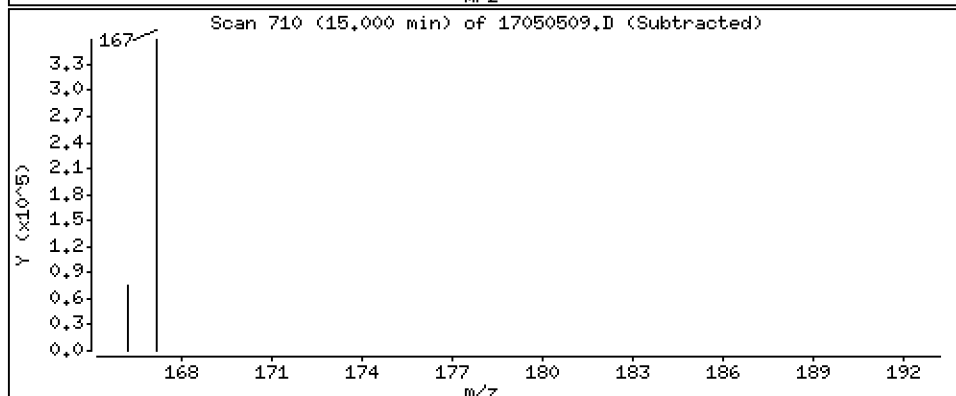
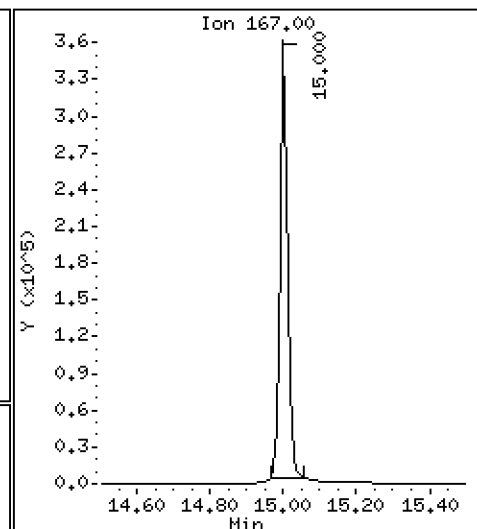
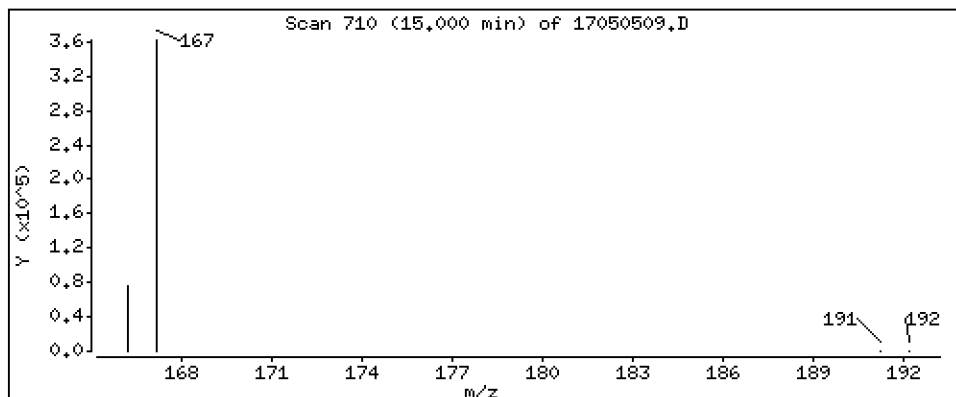
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Carbazole

Concentration: 252 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

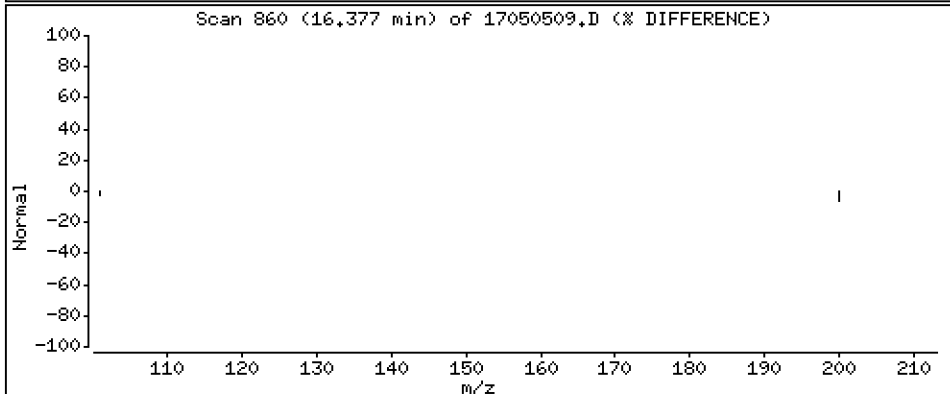
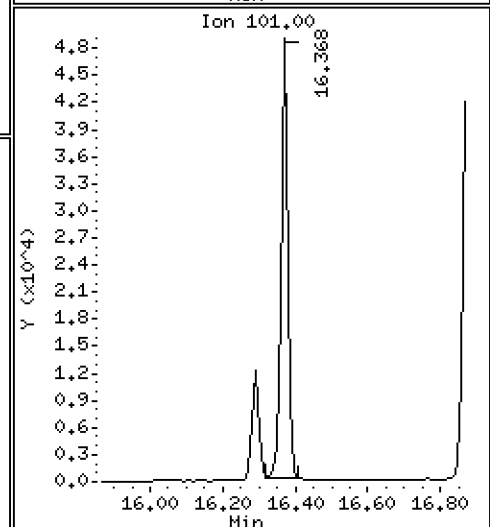
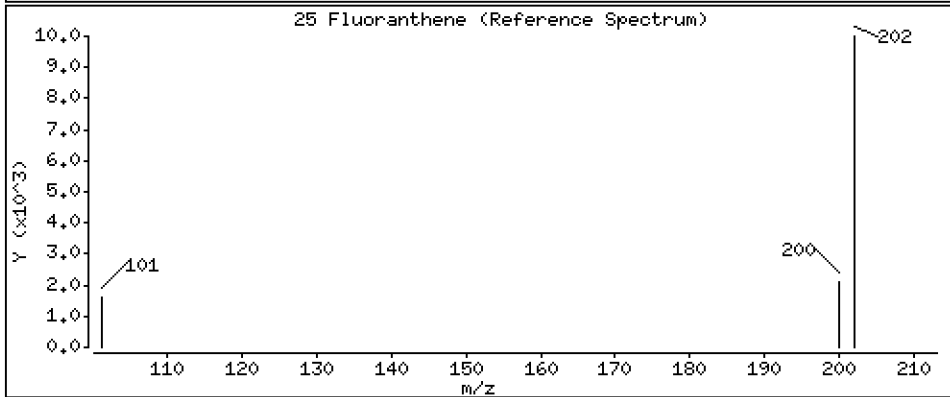
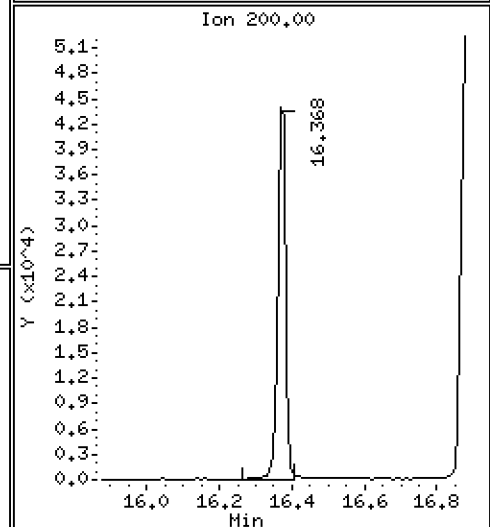
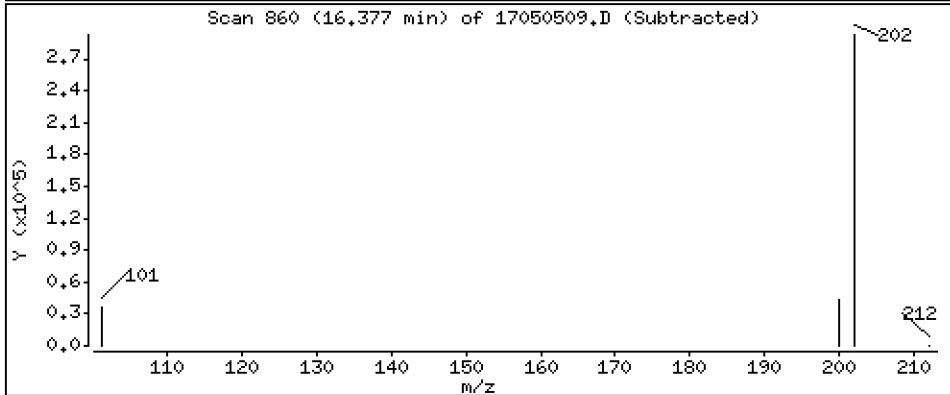
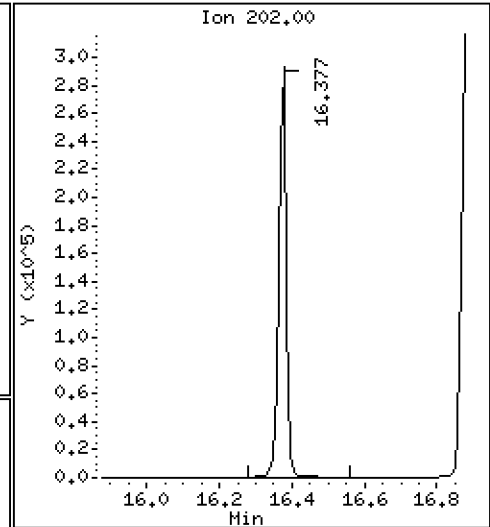
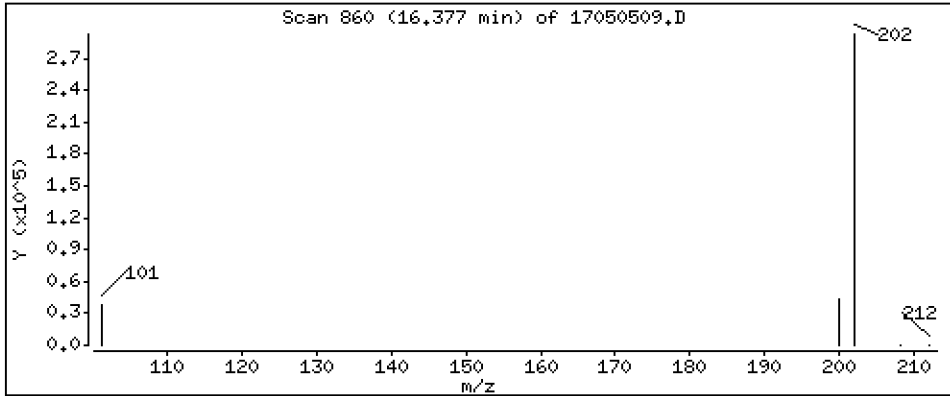
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

25 Fluoranthene

Concentration: 262 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

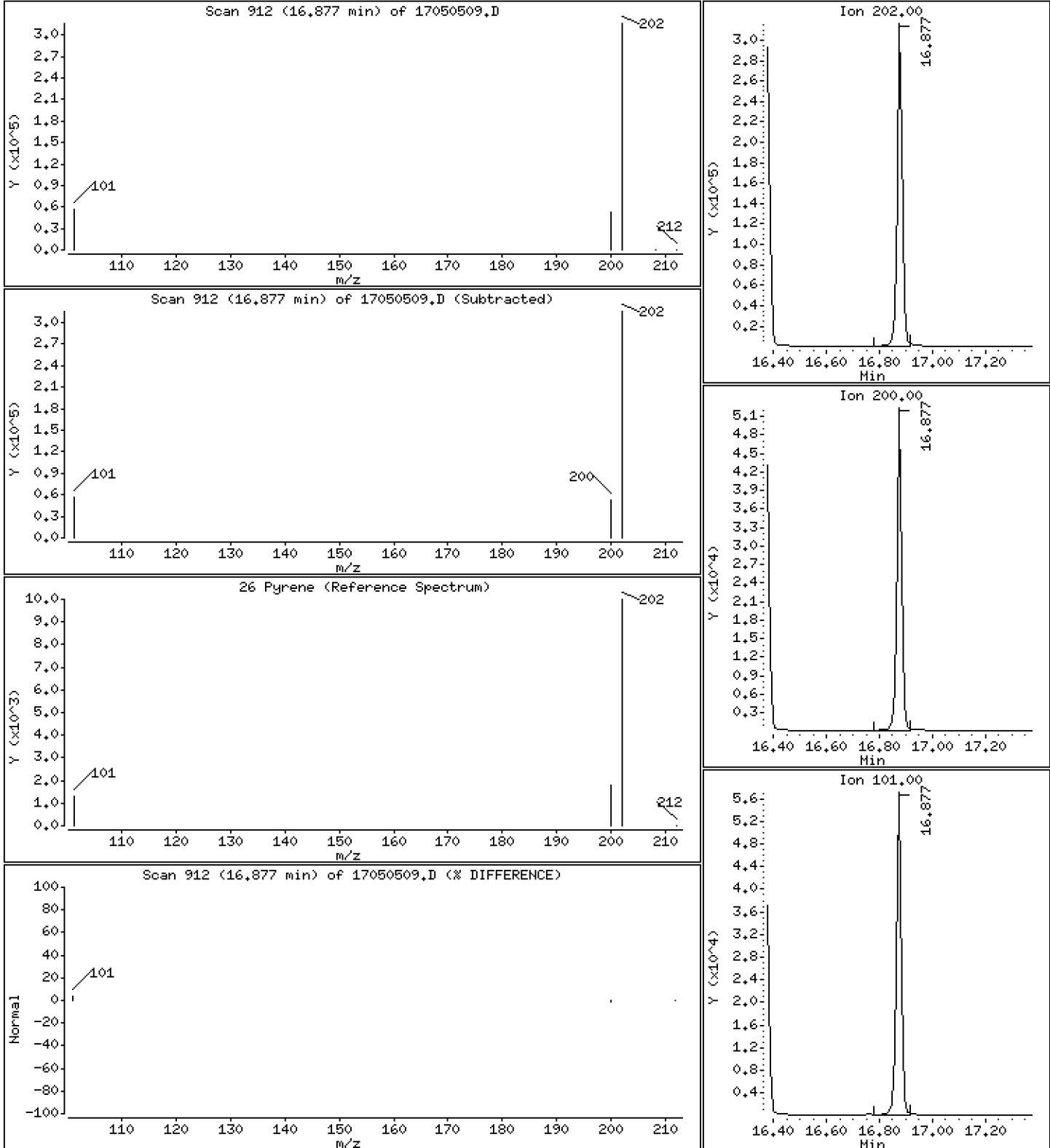
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Pyrene

Concentration: 255 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

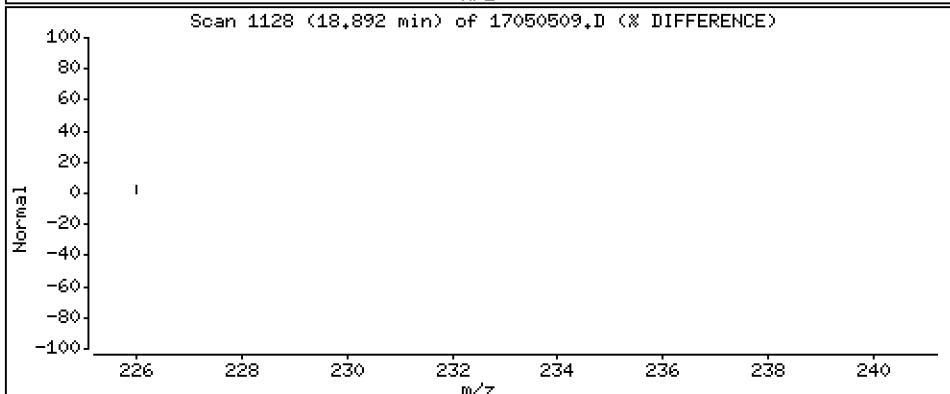
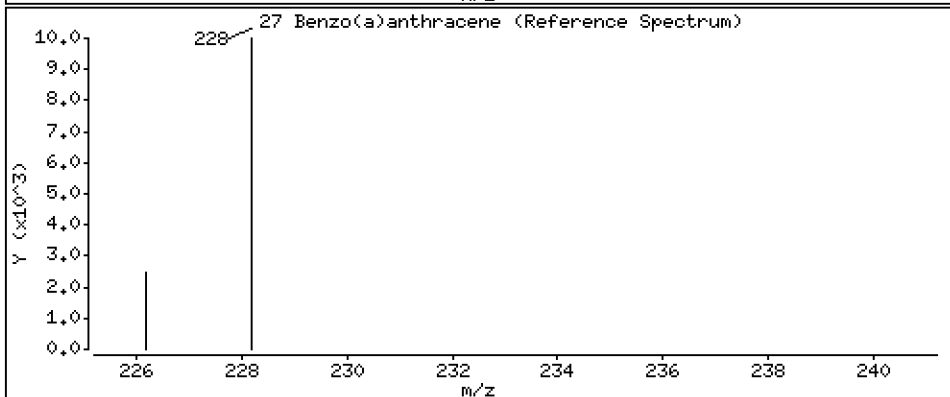
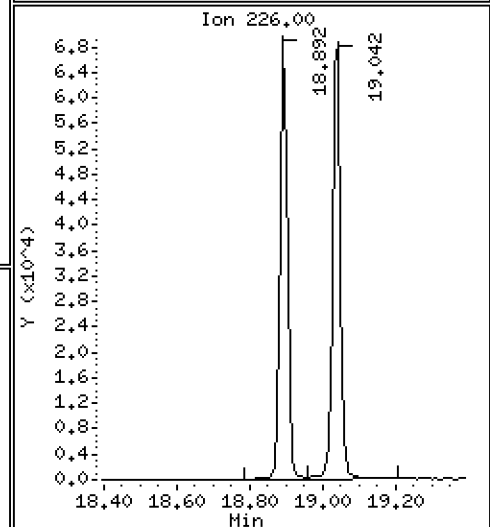
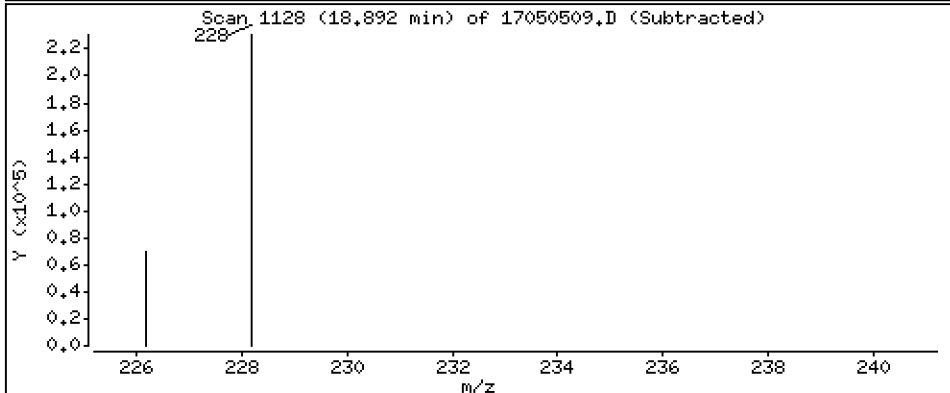
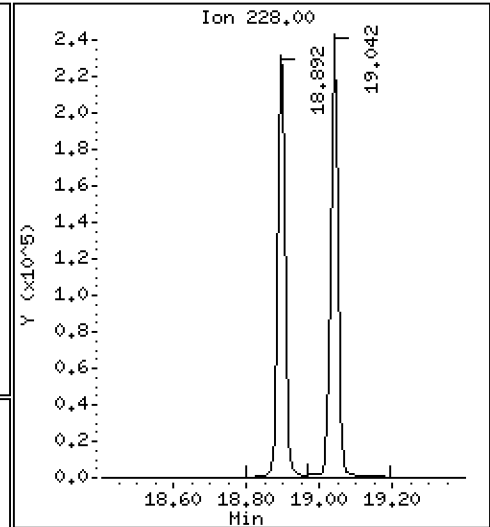
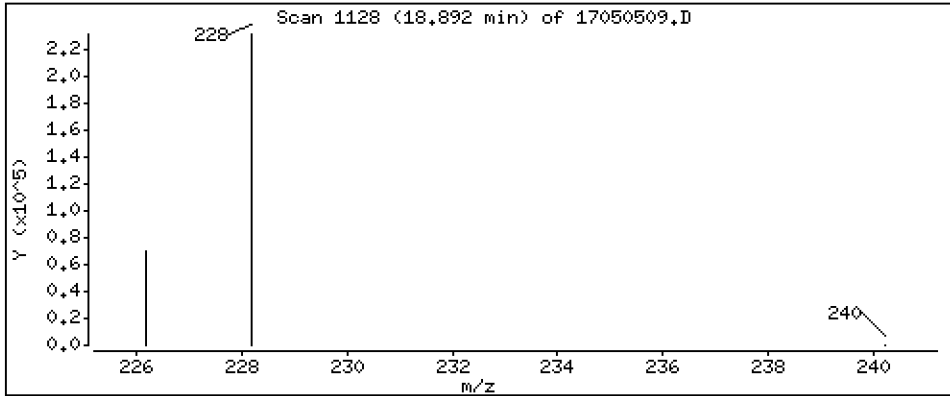
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

27 Benzo(a)anthracene

Concentration: 261 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

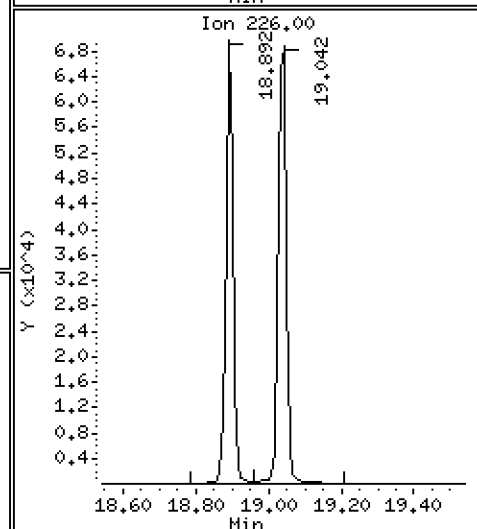
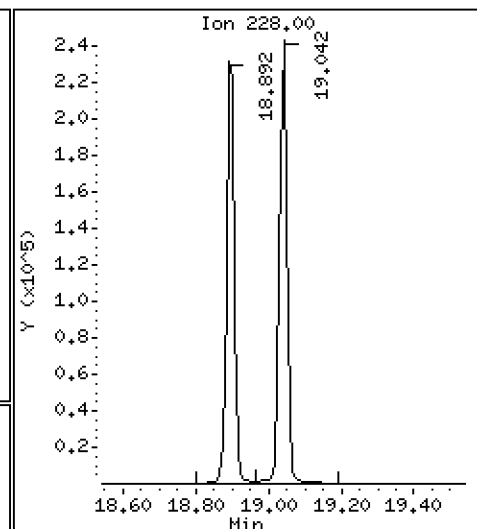
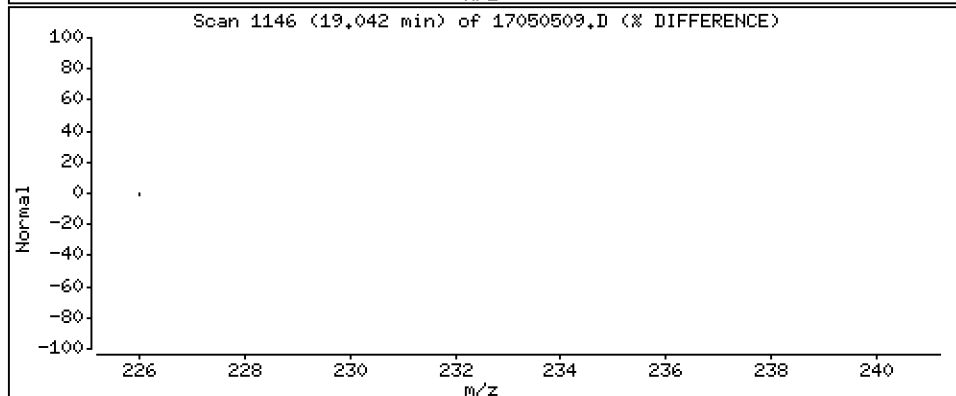
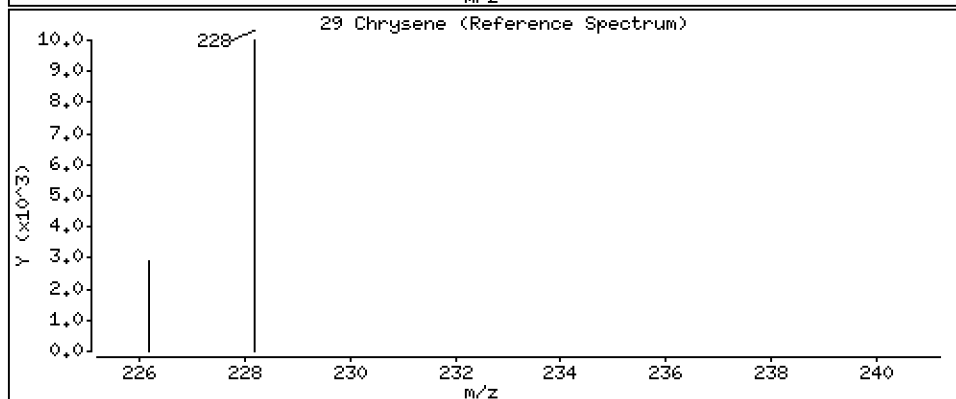
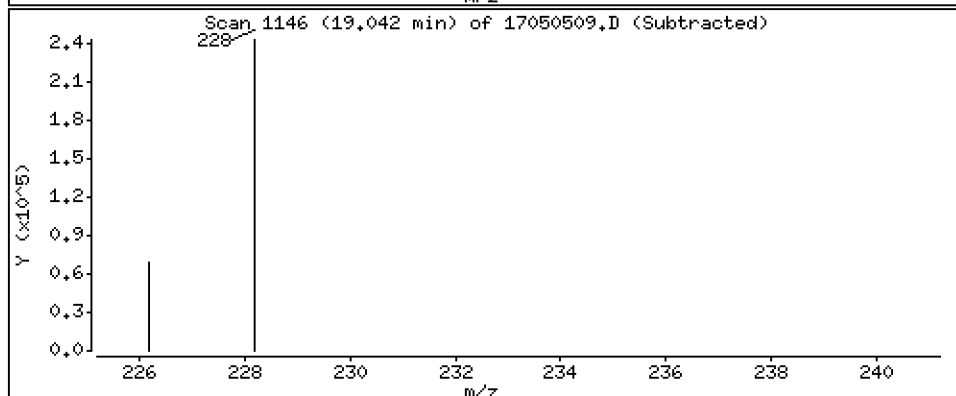
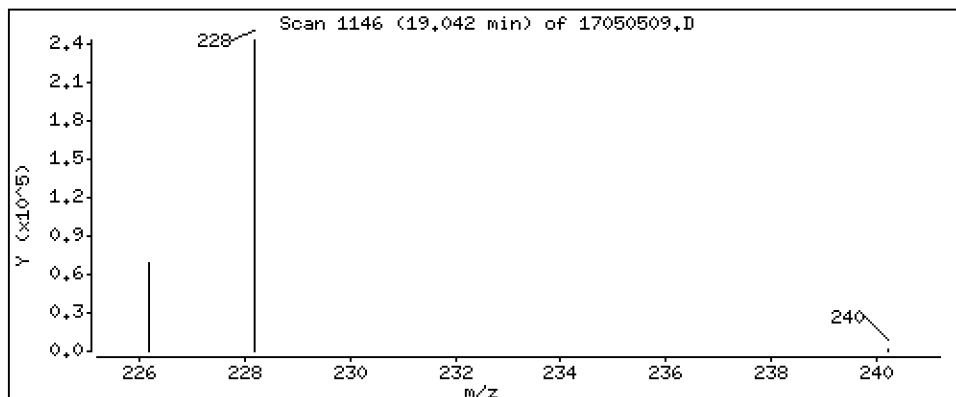
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

29 Chrysene

Concentration: 250 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

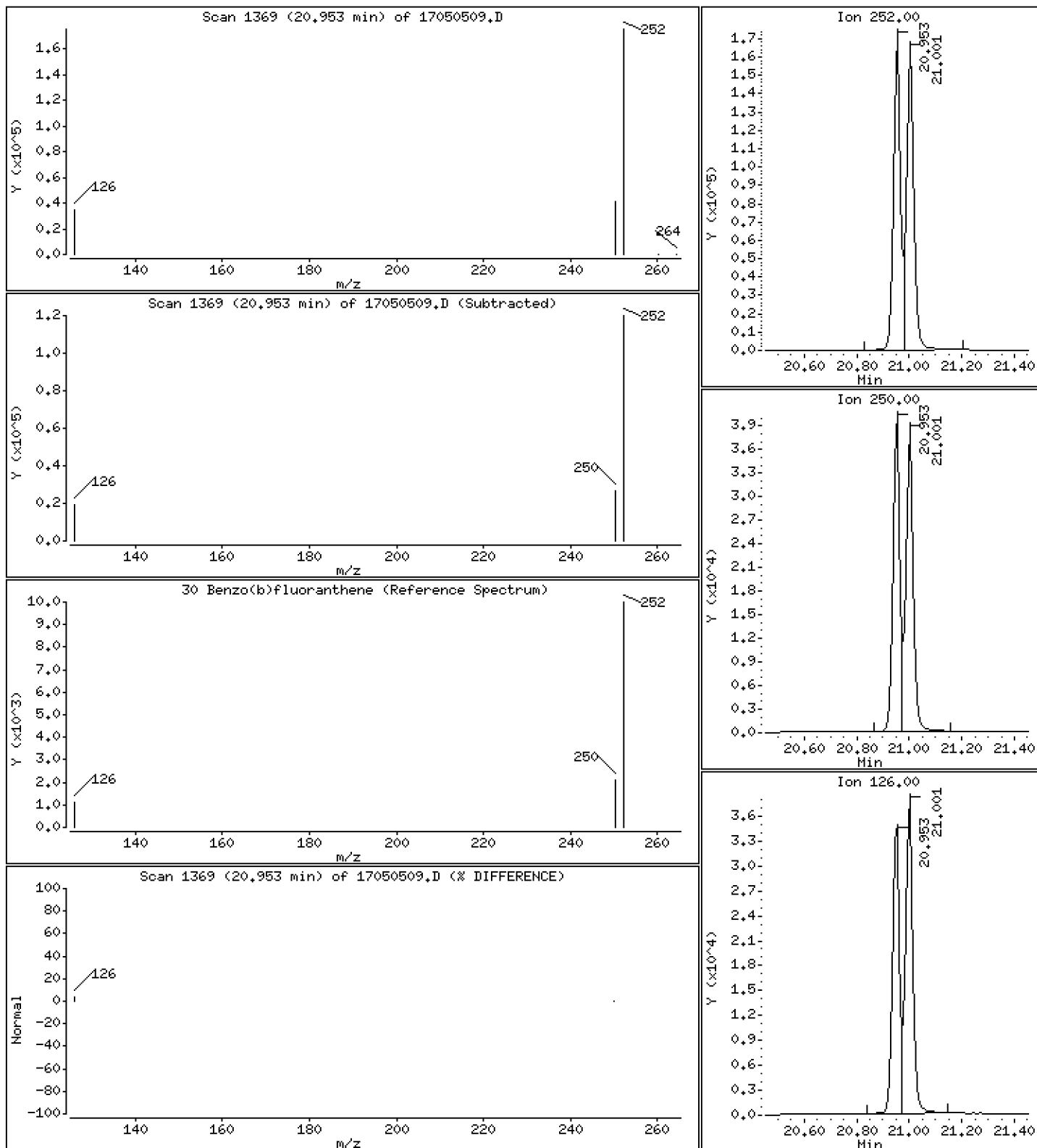
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Benzo(b)fluoranthene

Concentration: 268 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

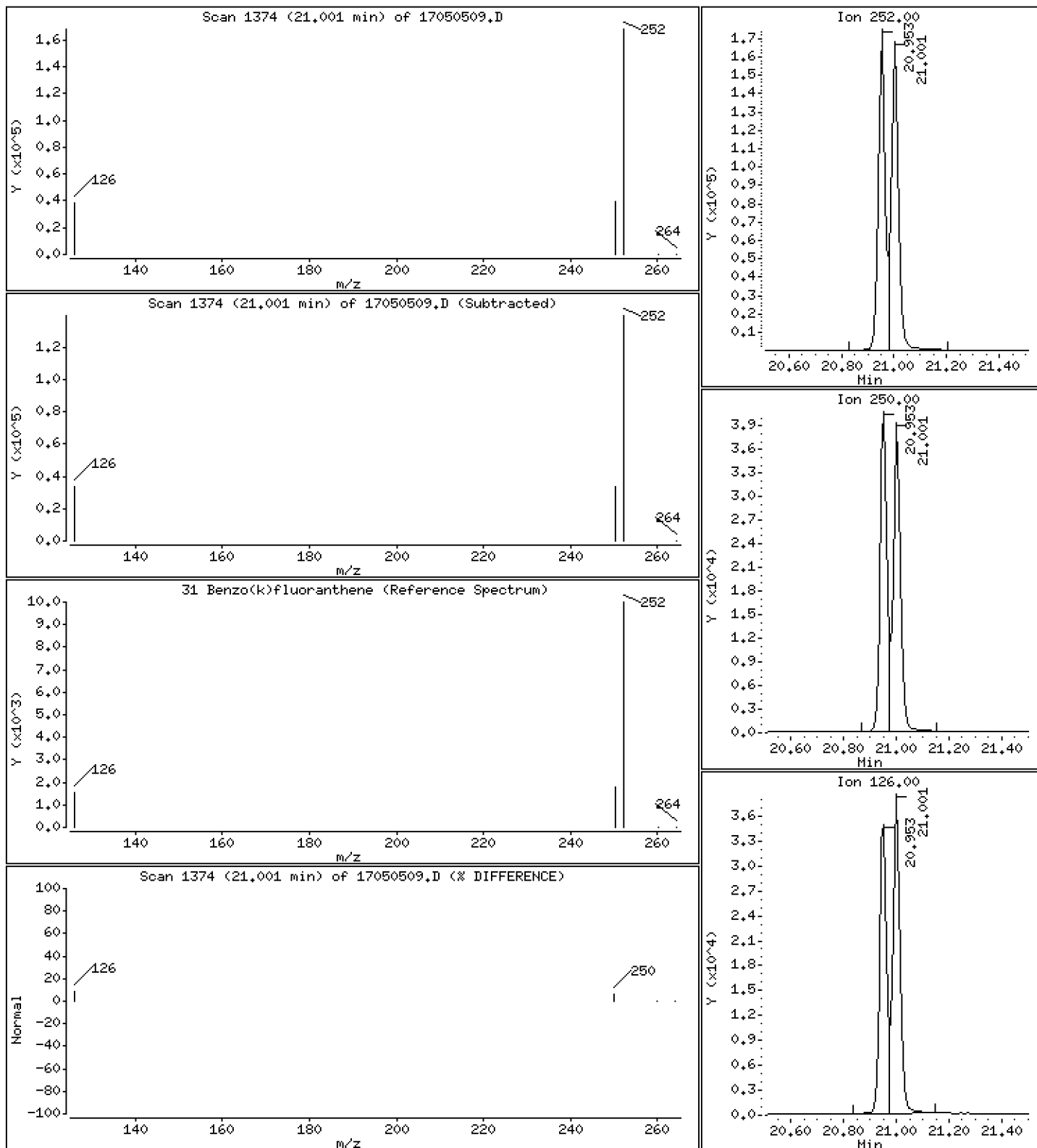
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

31 Benzo(k)fluoranthene

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

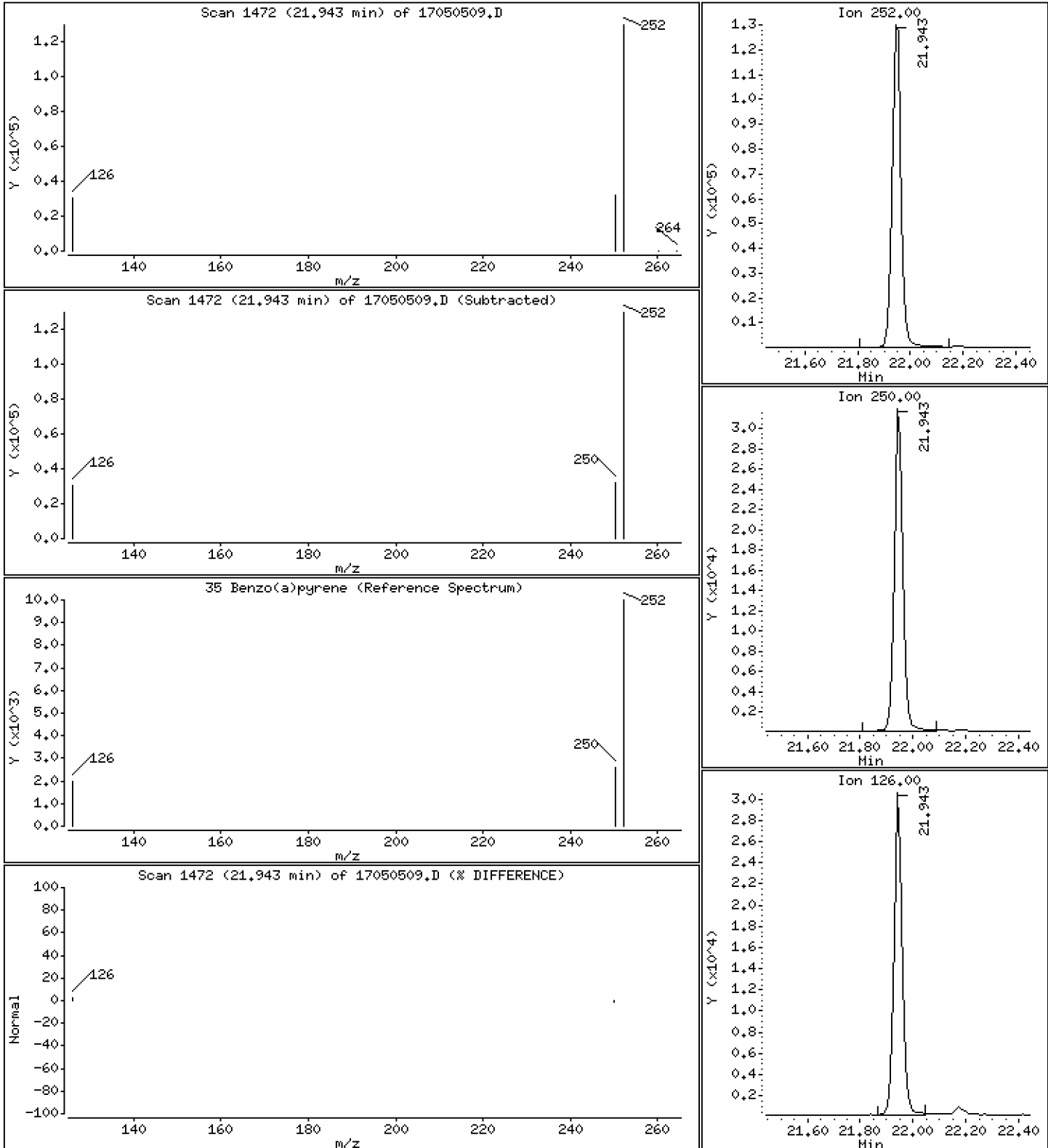
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

35 Benzo(a)pyrene

Concentration: 265 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

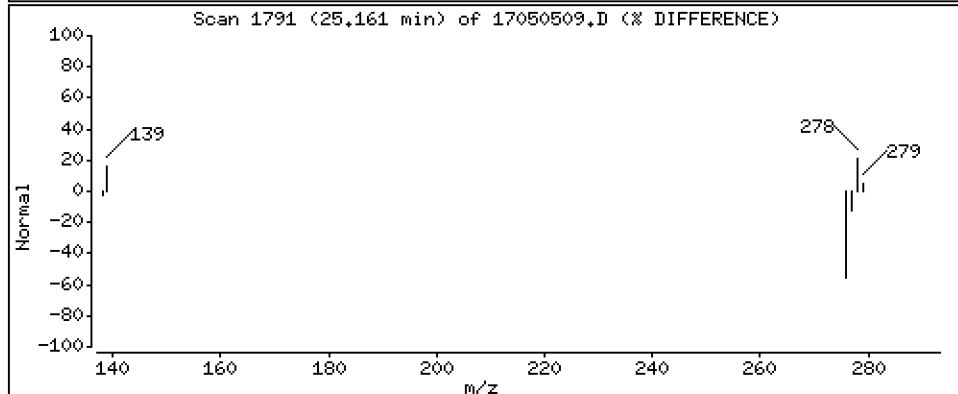
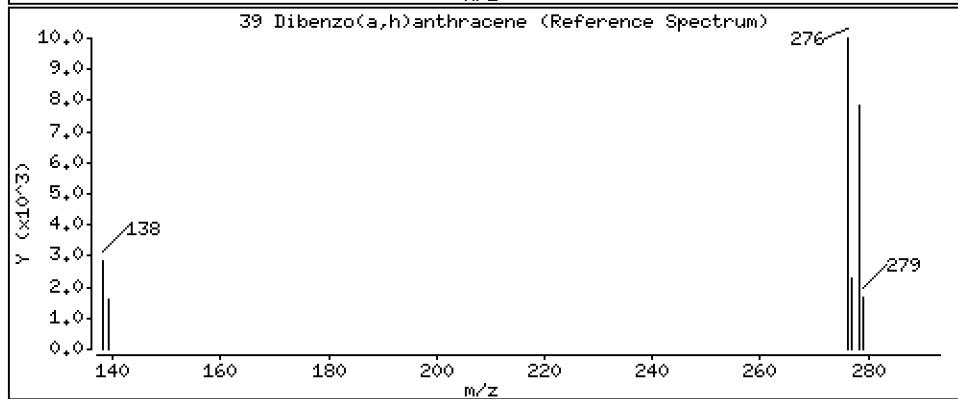
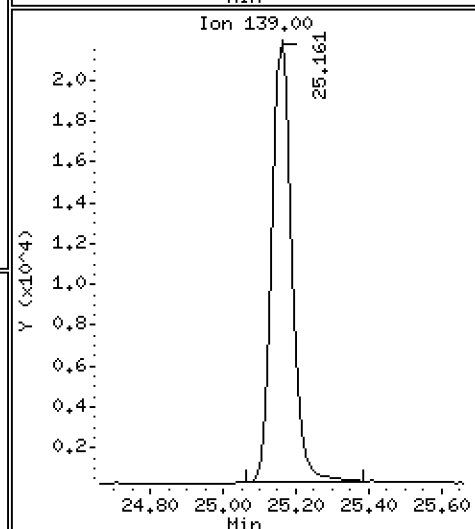
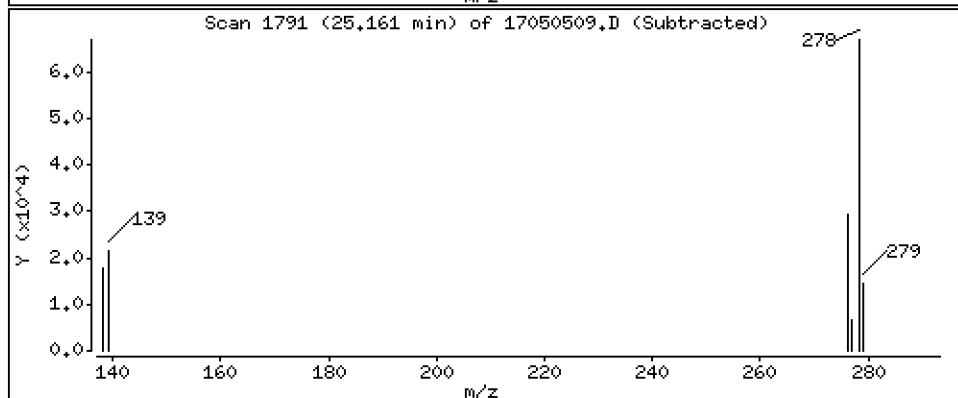
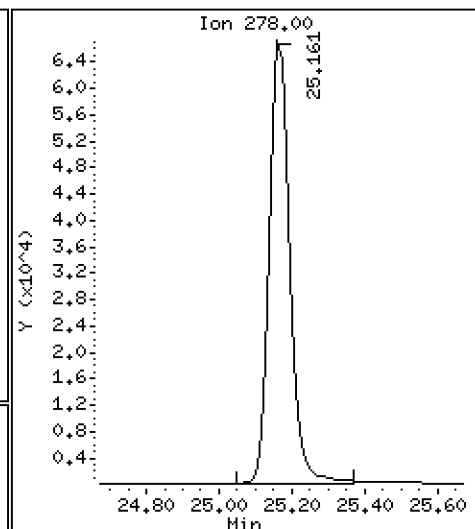
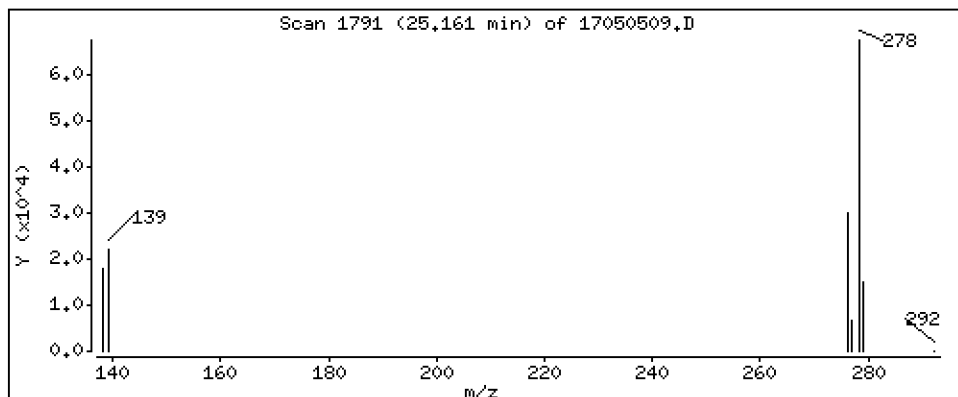
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

39 Dibenzo(a,h)anthracene

Concentration: 260 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

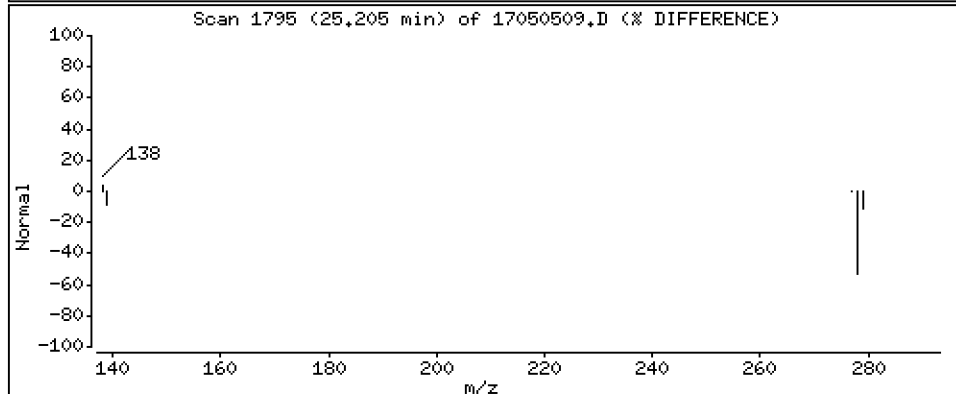
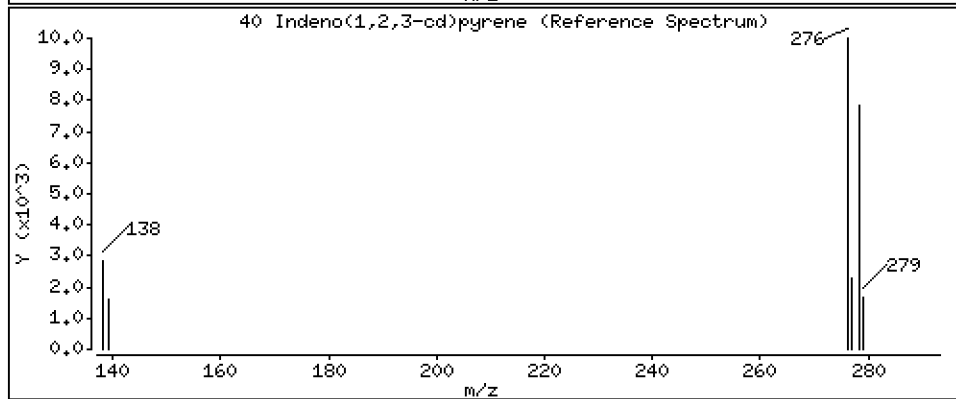
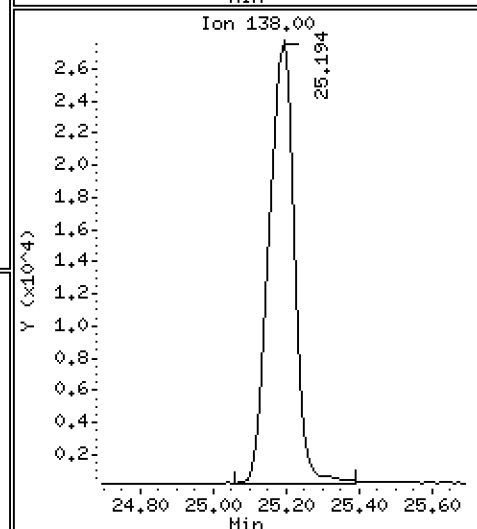
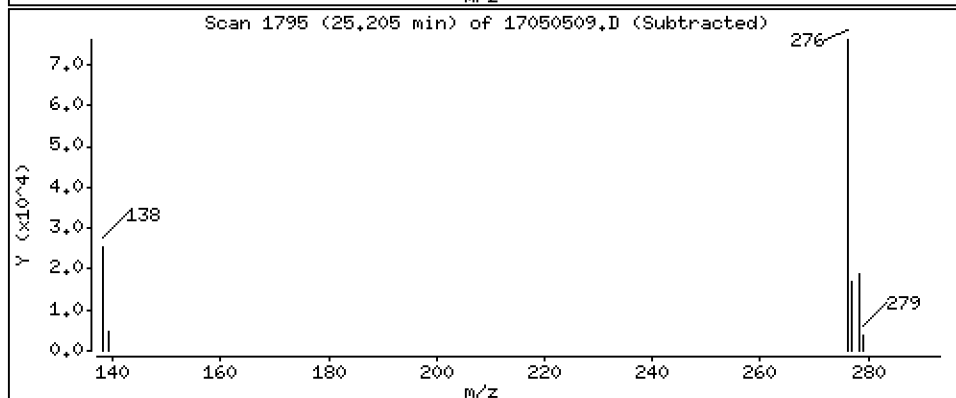
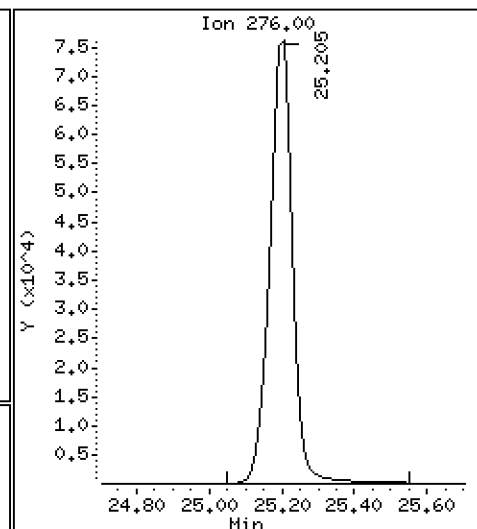
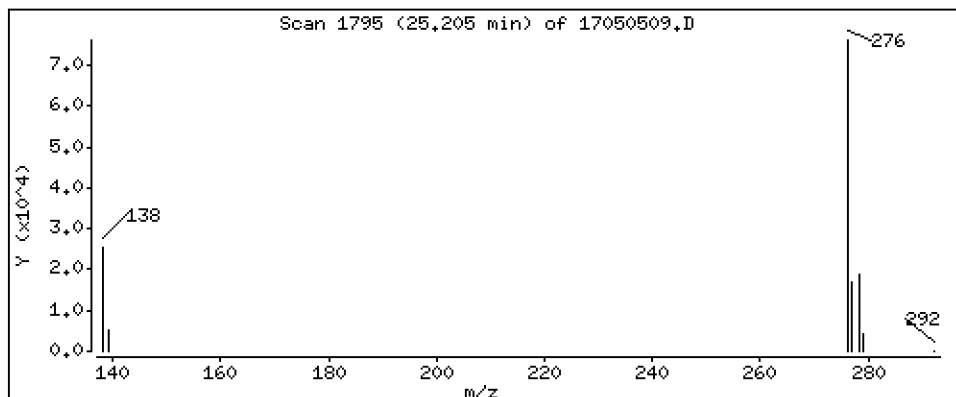
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

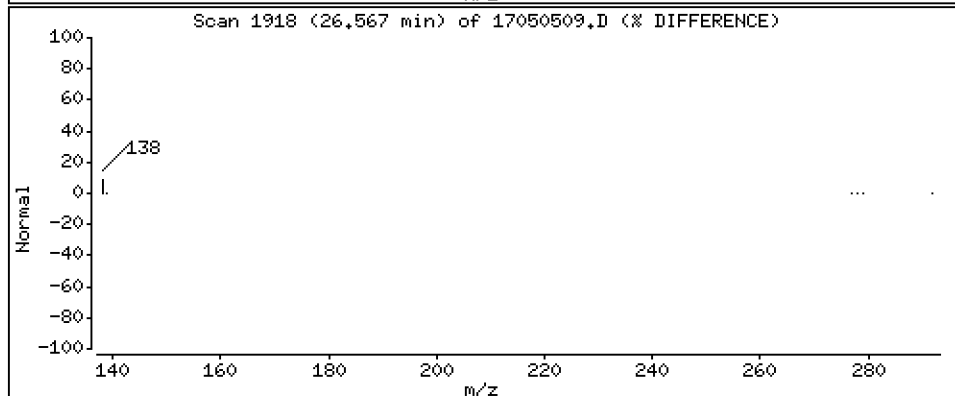
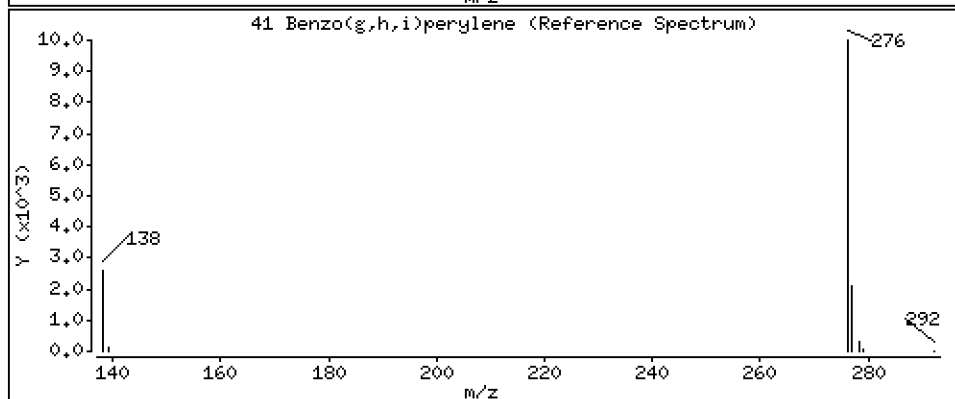
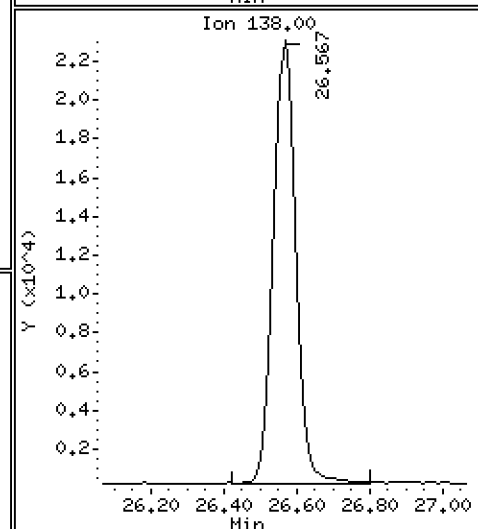
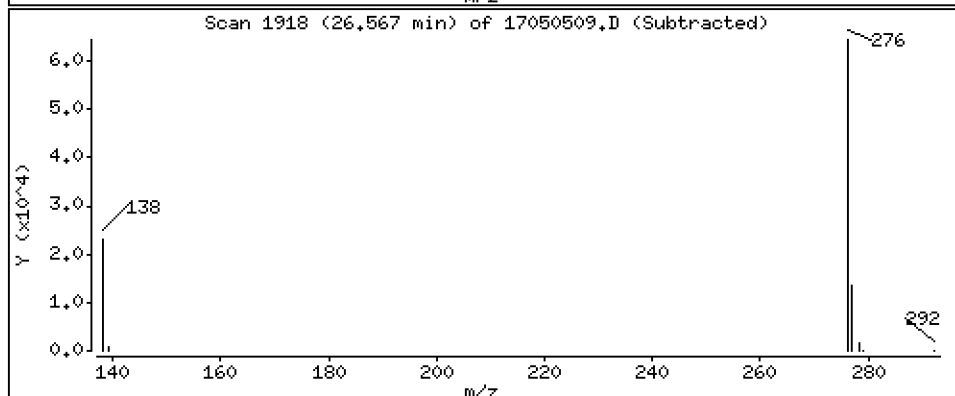
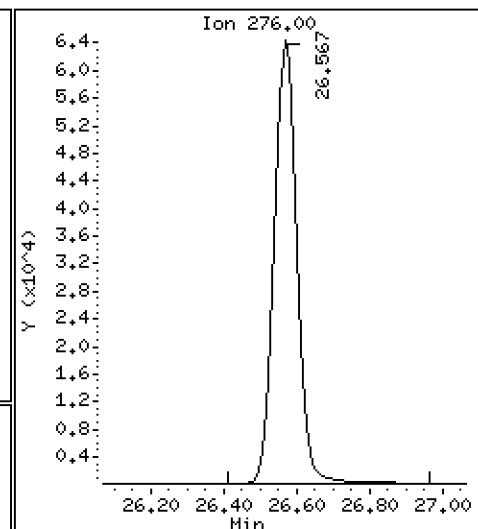
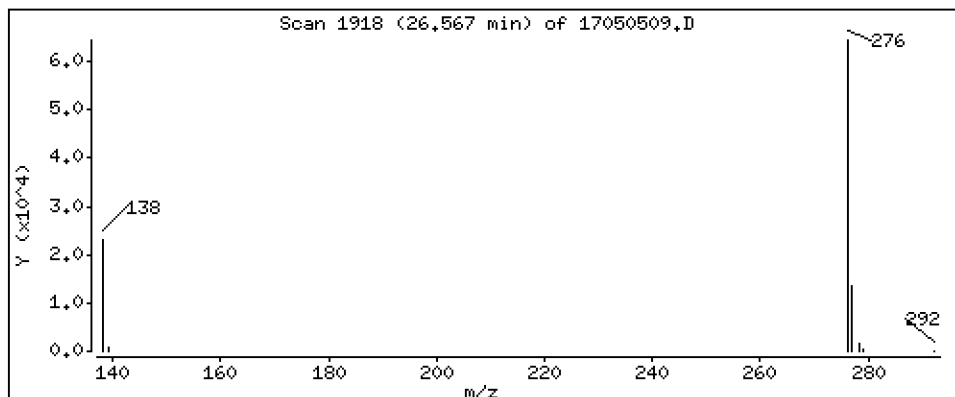
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

41 Benzo(g,h,i)perylene

Concentration: 262 ng/mL



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050509.D

Lab Smp Id: SFE0059-SCV1

Inj Date : 05-MAY-2017 15:23

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-SCV1

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ng/mL)
* 1 Naphthalene-d8	136		8.499	8.499	(1.000)	353470	200.000	
2 Naphthalene	128		8.536	8.536	(1.004)	456586	240.358	240
3 Benzo(b)thiophene	134		Compound Not Detected.					
\$ 4 2-Methylnaphthalene-d10	152		Compound Not Detected.					
5 2-Methylnaphthalene	142		9.540	9.540	(1.122)	450543	257.139	257
6 1-Methylnaphthalene	142		9.792	9.802	(1.152)	418203	246.808	247
7 2-Chloronaphthalene	162		10.454	10.454	(0.906)	373488	246.373	246
8 Biphenyl	154		Compound Not Detected.					
9 2,6-Dimethylnaphthalene	156		Compound Not Detected.					
10 Acenaphthylene	152		11.383	11.383	(0.987)	422022	246.846	247
* 11 Acenaphthene-d10	164		11.537	11.537	(1.000)	145863	200.000	
12 Acenaphthene	153		11.600	11.600	(1.005)	309187	276.562	277
13 Dibenzofuran	168		11.797	11.797	(1.023)	389481	252.504	253
14 2,3,5-Trimethylnaphthalene	170		Compound Not Detected.					
\$ 15 Fluorene-d10	174		Compound Not Detected.					
16 Fluorene	166		12.429	12.429	(1.077)	309438	257.250	257
17 Dibenzothiophene	184		Compound Not Detected.					
* 18 Phenanthrene-d10	188		14.230	14.230	(1.000)	234202	200.000	
19 Phenanthrene	178		14.272	14.272	(1.003)	446151	255.907	256
\$ 20 Anthracene-d10	188		Compound Not Detected.					
21 Anthracene	178		14.325	14.325	(1.007)	412225	240.004	240
22 Carbazole	167		15.000	14.999	(1.054)	504276	252.234	252
23 1-Methylphenanthrene	192		Compound Not Detected.					
\$ 24 Fluoranthene-d10	212		Compound Not Detected.					
25 Fluoranthene	202		16.377	16.377	(1.151)	439149	262.112	262
26 Pyrene	202		16.876	16.876	(0.889)	438217	255.184	255
27 Benzo(a)anthracene	228		18.892	18.900	(0.995)	352034	260.623	261
* 28 Chrysene-d12	240		18.991	18.991	(1.000)	189686	200.000	
29 Chrysene	228		19.041	19.041	(1.003)	348116	249.715	250
30 Benzo(b)fluoranthene	252		20.953	20.953	(0.945)	342991	267.607	268
31 Benzo(k)fluoranthene	252		21.001	21.010	(0.947)	335630	264.150	264
32 Benzo(j)fluoranthene	252		Compound Not Detected.					
\$ 33 Benzo(e)pyrene-d12	264		Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ng/mL)	
34 Benzo(e)pyrene	252	Compound Not Detected.						
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	306973	264.763	265	
* 36 Perylene-d12	264	22.183	22.182	(1.000)	205114	200.000		
37 Perylene	252	Compound Not Detected.						
§ 38 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.						
39 Dibenzo(a,h)anthracene	278	25.160	25.171	(1.134)	254355	259.573	260	
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	323142	264.219	264	
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	273990	261.892	262	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050509.D
 Lab Smp Id: SFE0059-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	353470	-4.81
11 Acenaphthene-d10	154428	77214	308856	145863	-5.55
18 Phenanthrene-d10	256956	128478	513912	234202	-8.86
28 Chrysene-d12	208629	104315	417258	189686	-9.08
36 Perylene-d12	225431	112716	450862	205114	-9.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050509.D

Lab ID: SFE0059-SCV1
nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 15:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Calibration: AE00020

Laboratory ID: SFE0059-SCV1

Sequence: SFE0059

Sequence Name: SIMPNA SCV

Standard ID: F004123

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Naphthalene	250.00	240	-3.9	20.00
2-Methylnaphthalene	250.00	257	2.9	20.00
Acenaphthylene	250.00	247	-1.3	20.00
Acenaphthene	250.00	277	10.6	20.00
Dibenzofuran	250.00	253	1.0	20.00
Fluorene	250.00	257	2.9	20.00
Phenanthrene	250.00	256	2.4	20.00
Anthracene	250.00	240	-4.0	20.00
Fluoranthene	250.00	262	4.8	20.00
Pyrene	250.00	255	2.1	20.00
Benzo(a)anthracene	250.00	261	4.2	20.00
Chrysene	250.00	250	-0.1	20.00
Benzo(b)fluoranthene	250.00	268	7.0	20.00
Benzo(k)fluoranthene	250.00	264	5.7	20.00
Carbazole	250.00	252	0.9	
Benzo(a)pyrene	250.00	265	5.9	20.00
Indeno(1,2,3-cd)pyrene	250.00	264	5.7	20.00
Dibenzo(a,h)anthracene	250.00	260	3.8	20.00
Benzo(g,h,i)perylene	250.00	262	4.8	20.00
1-Methylnaphthalene	250.00	247	-1.3	20.00
Benzo(a)fluoranthenes, Total	500.00	532	6.4	
2-Chloronaphthalene	250.00	246	-1.5	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170505.16\17050509.D

Date: 05-May-2017 15:23

Client ID:

Sample Info: SFE0059-SCW1

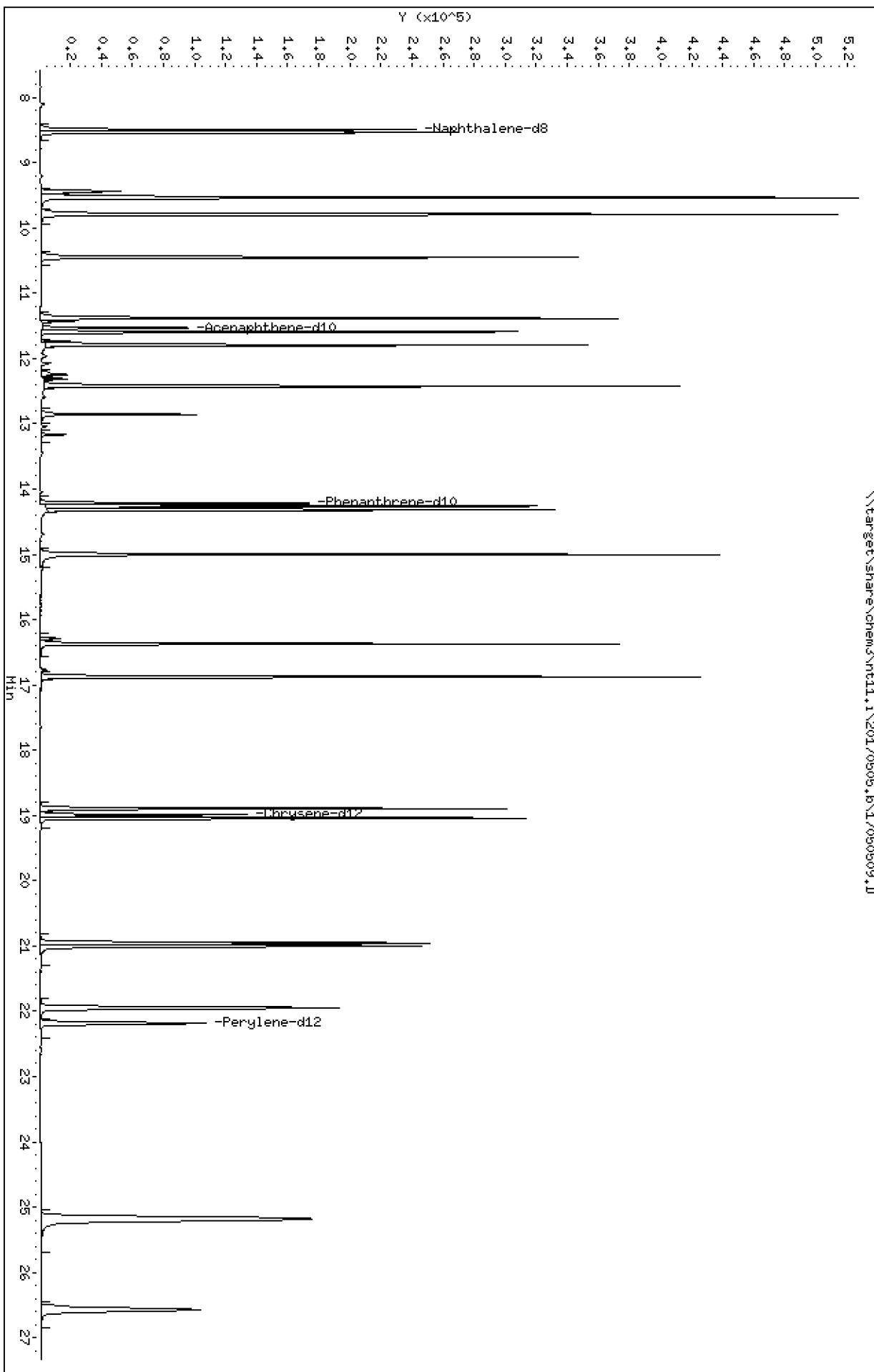
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

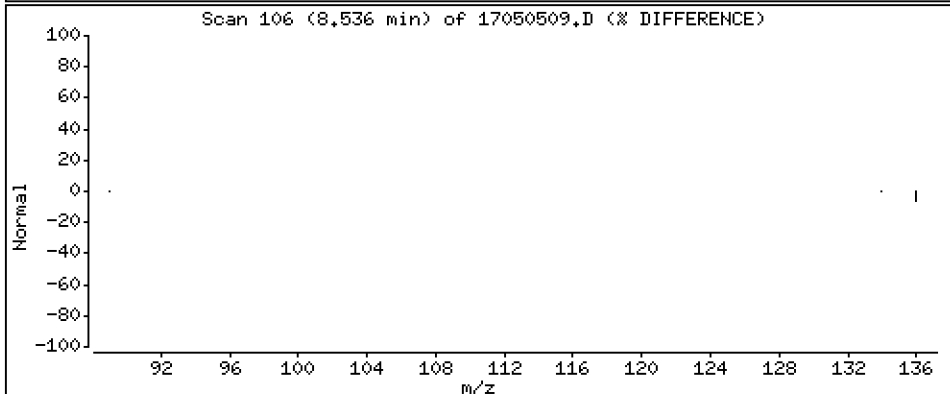
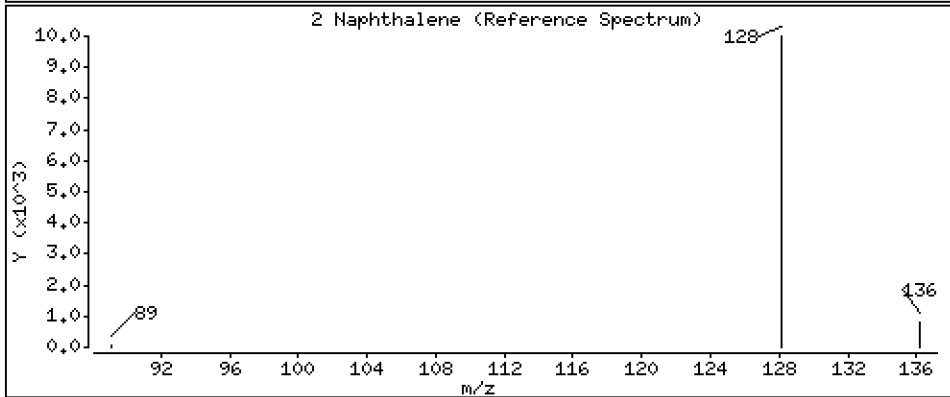
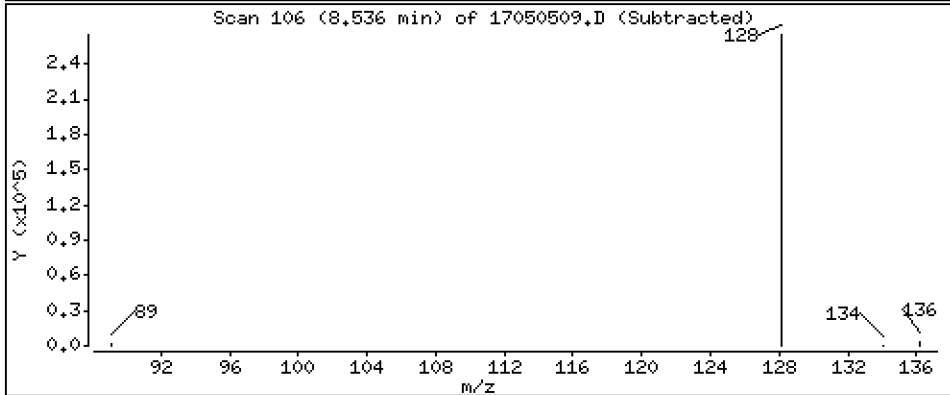
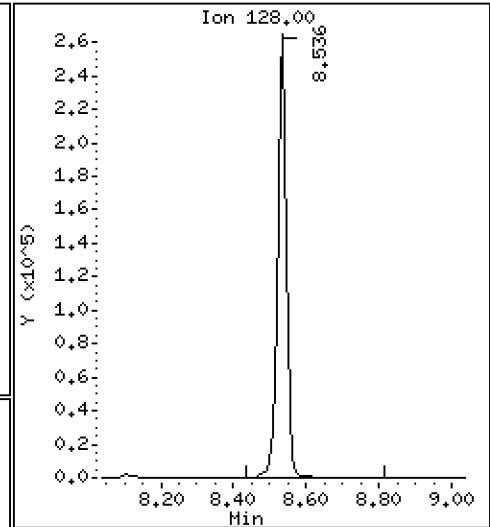
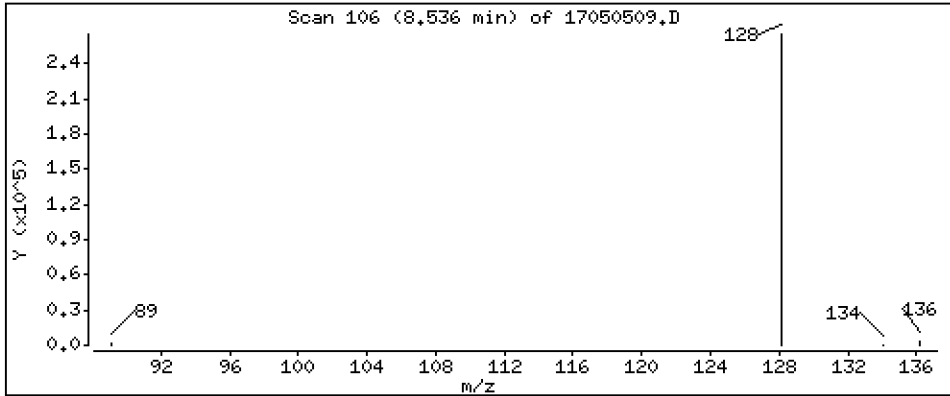
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

2 Naphthalene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

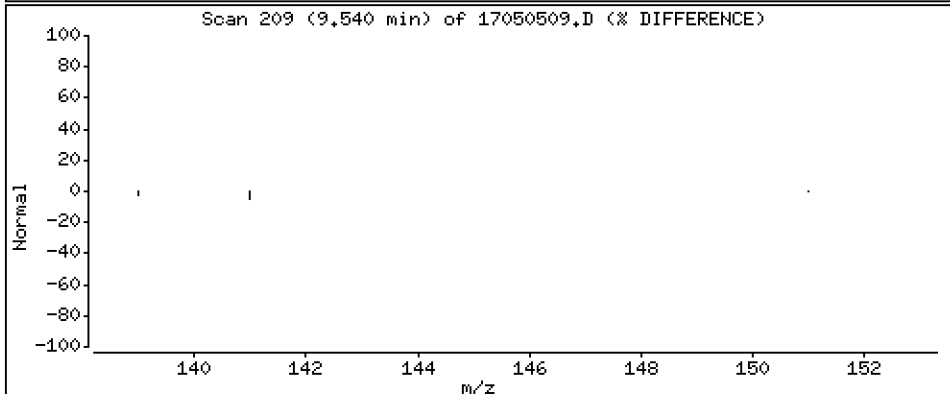
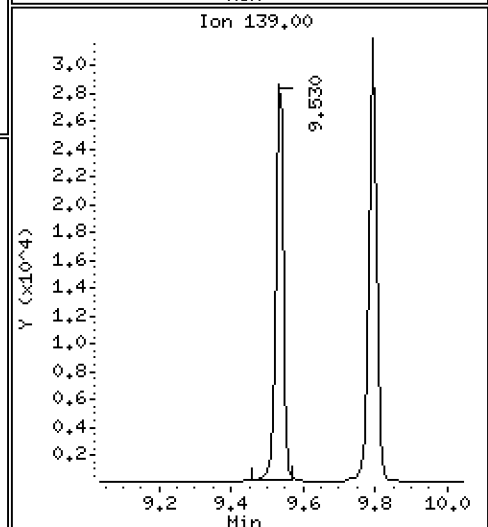
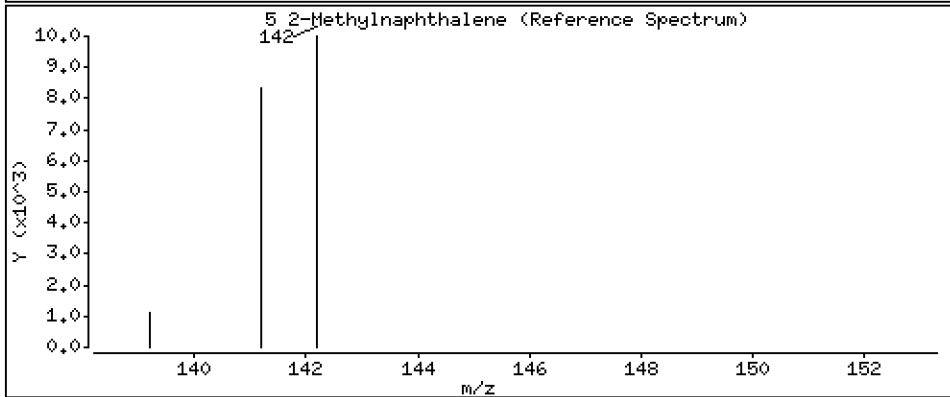
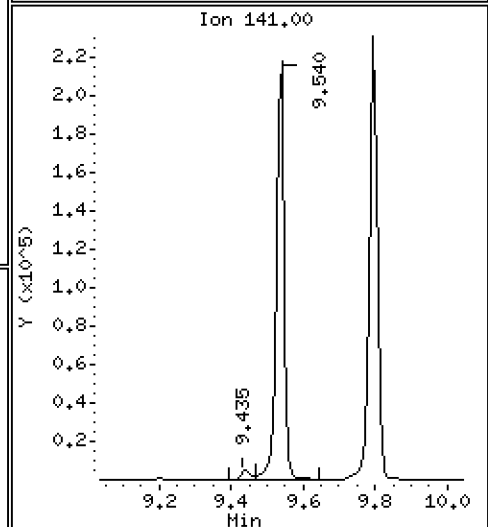
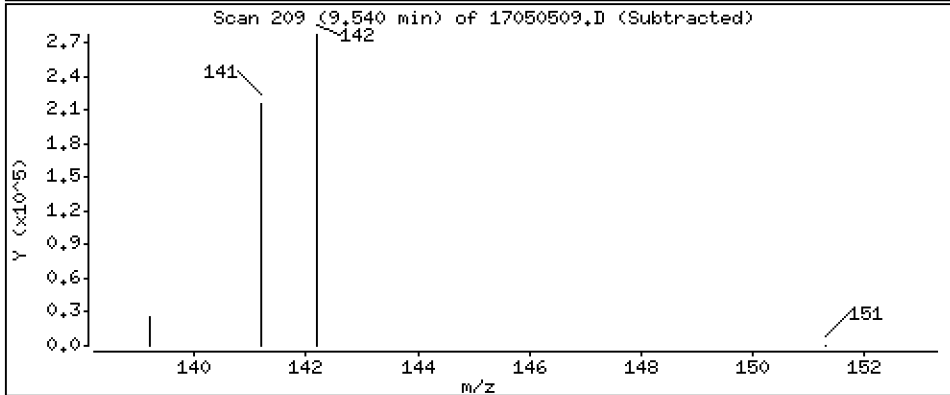
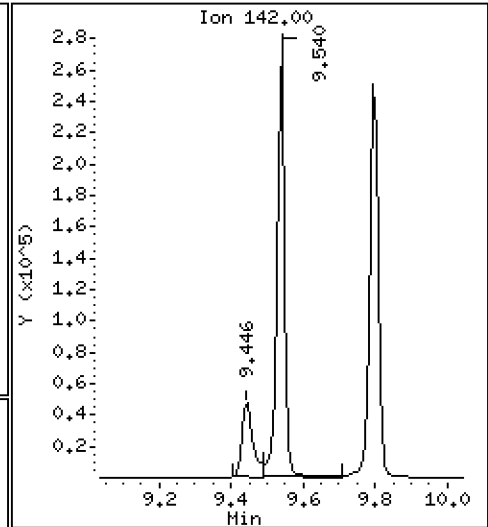
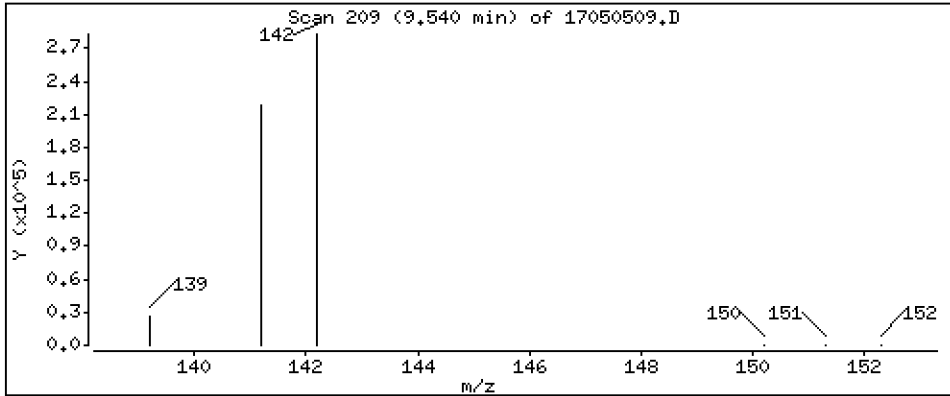
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

5-2-Methylnaphthalene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

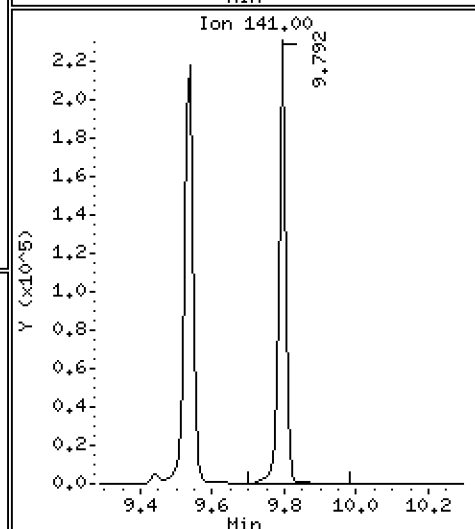
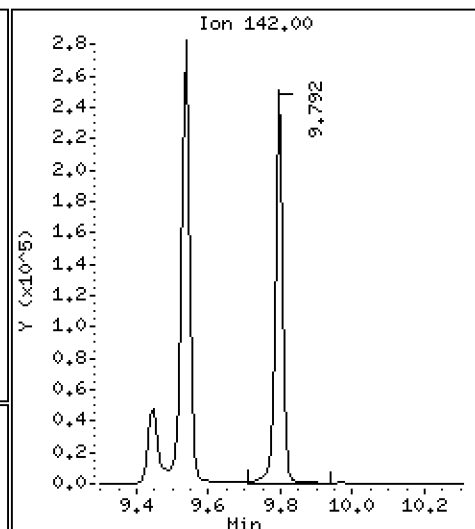
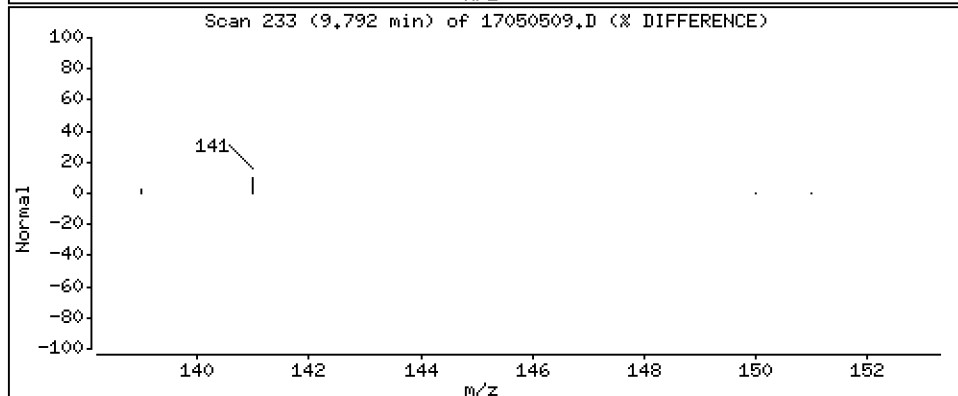
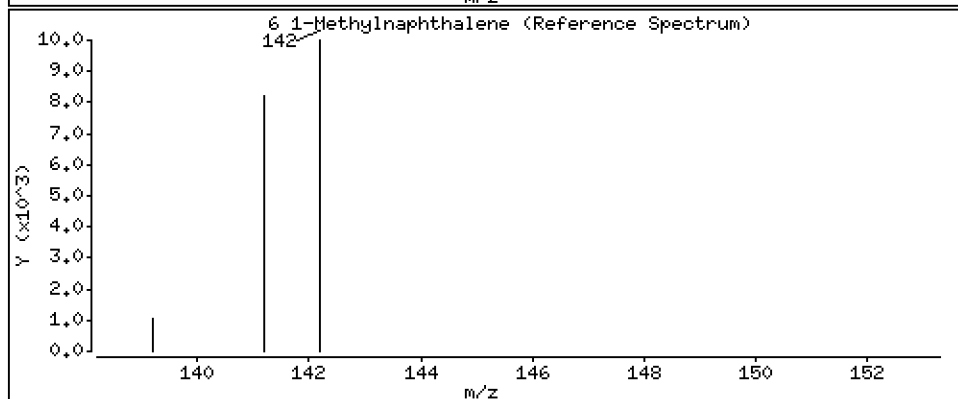
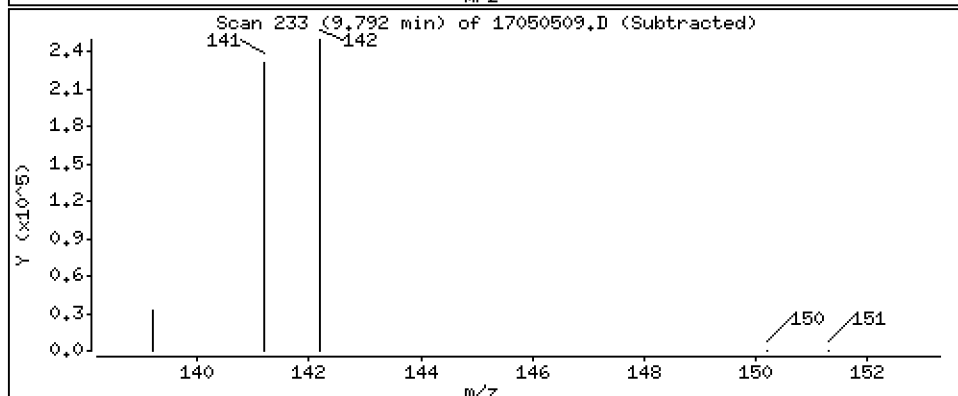
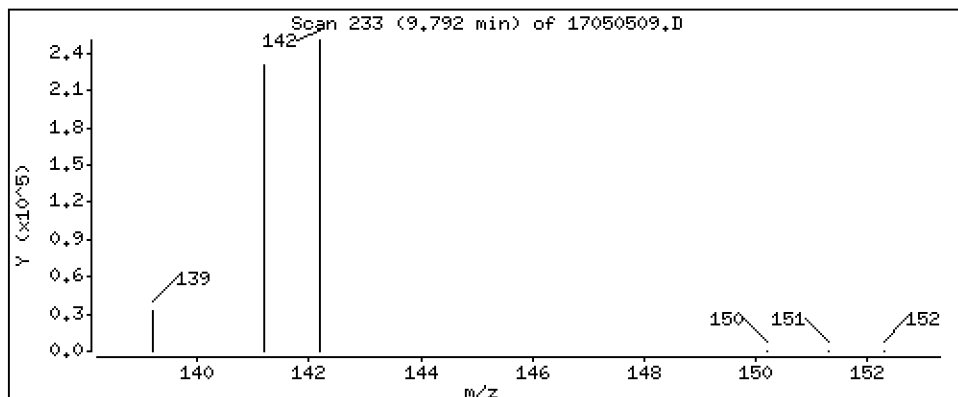
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

6 1-Methylnaphthalene

Concentration: 247 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

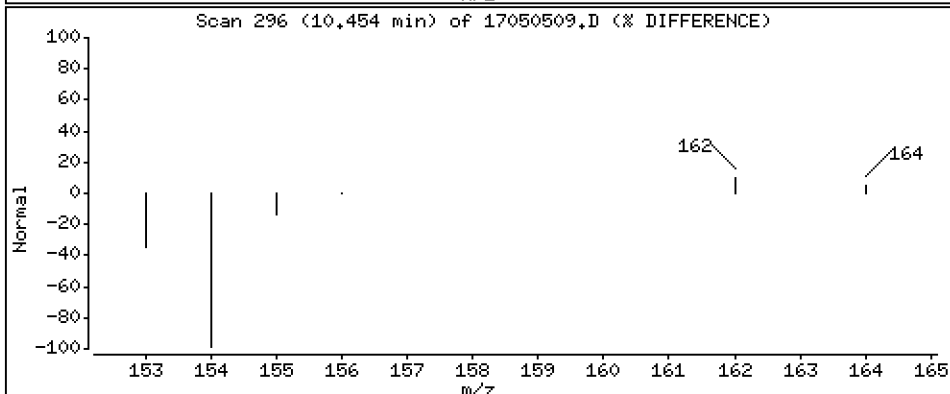
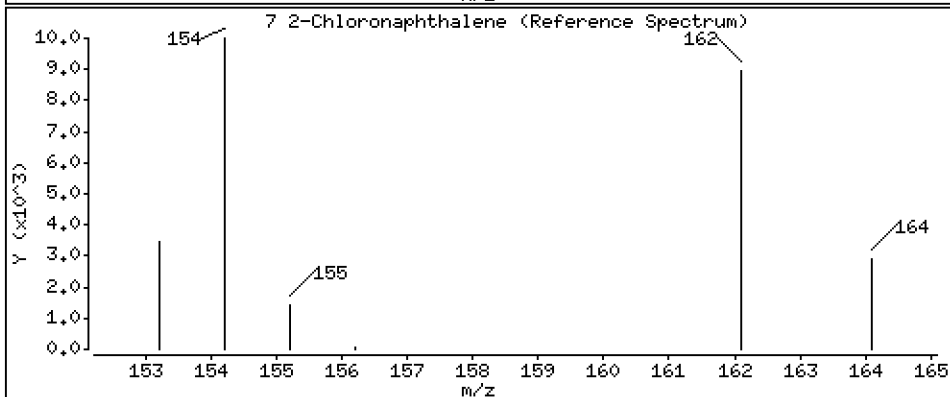
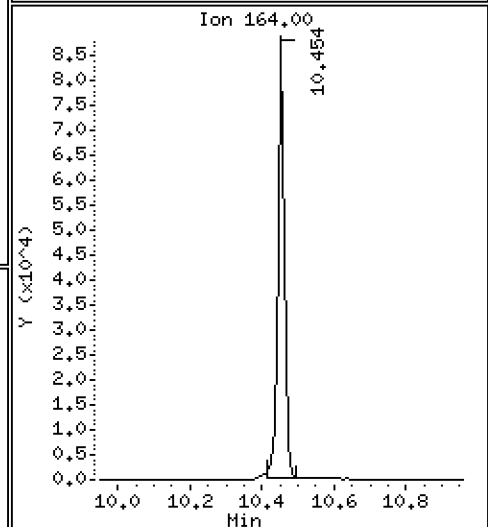
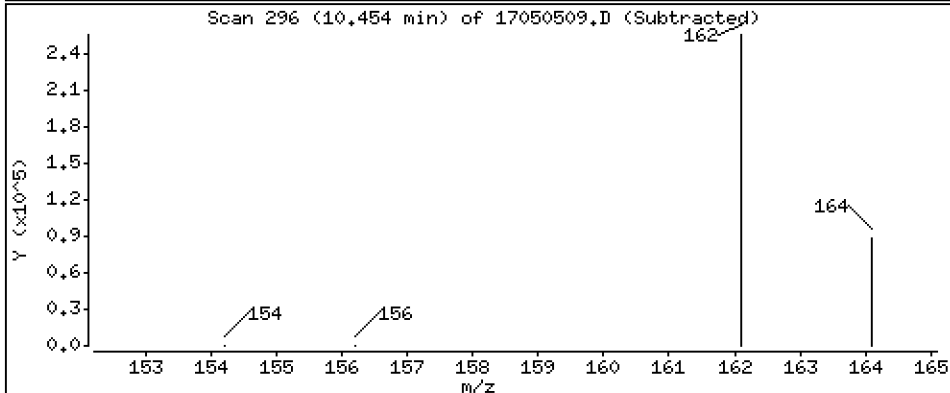
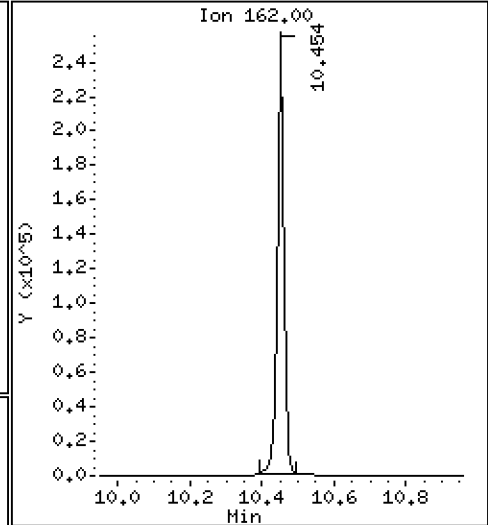
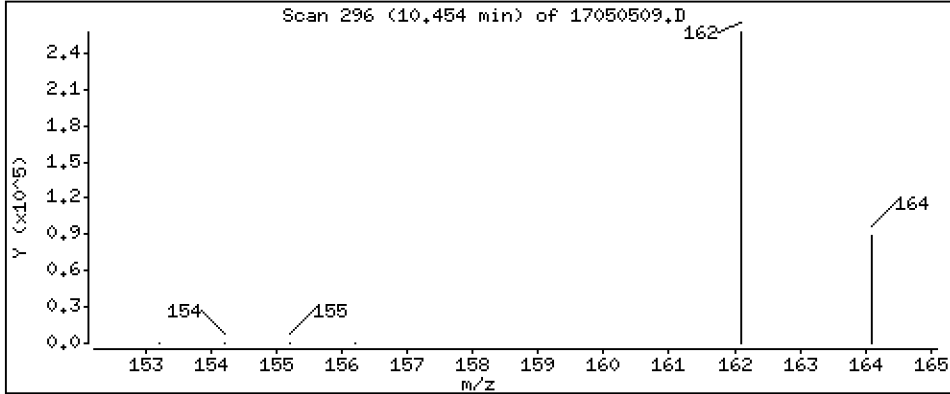
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 2-Chloronaphthalene

Concentration: 246 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

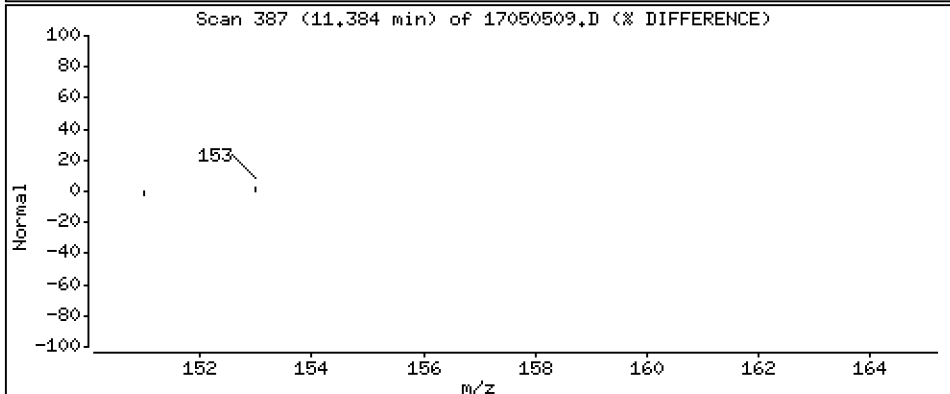
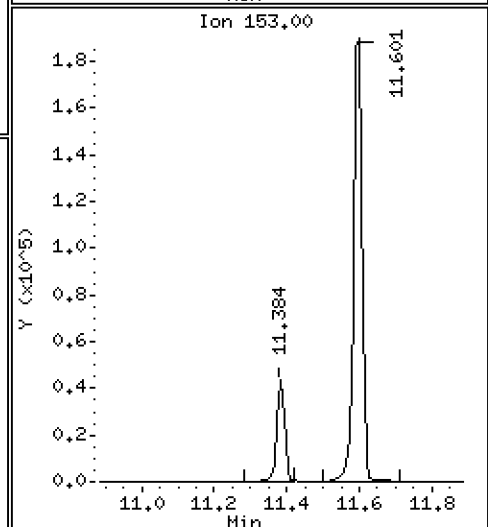
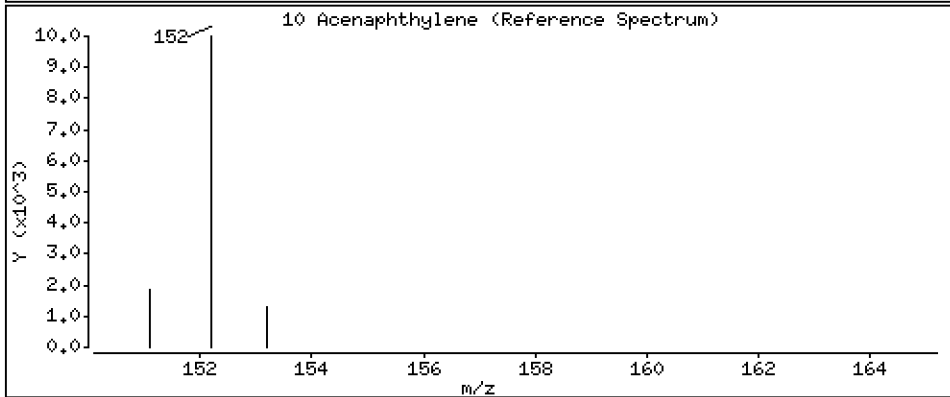
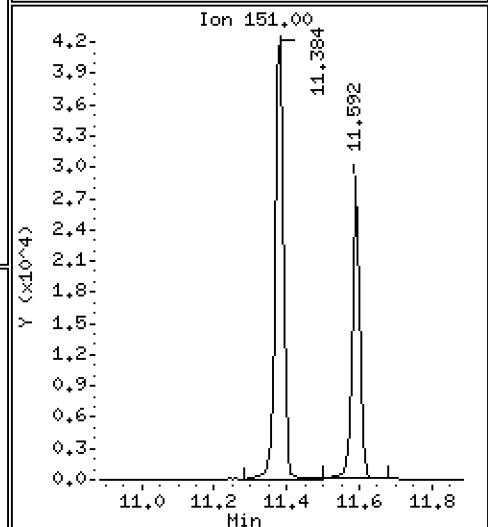
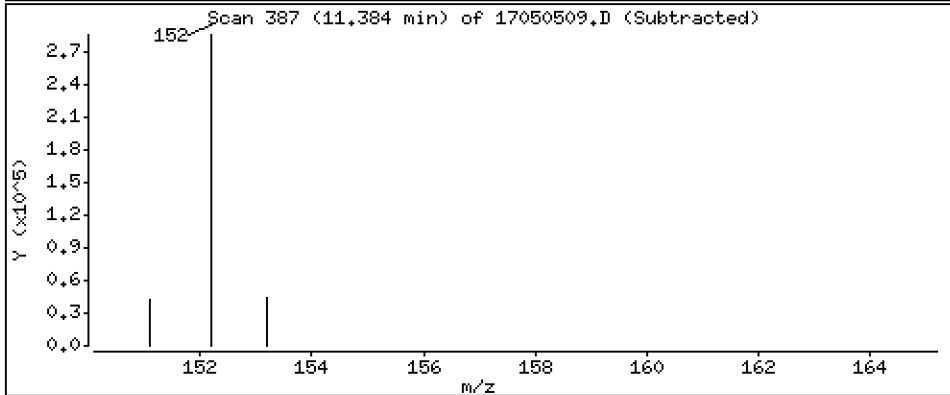
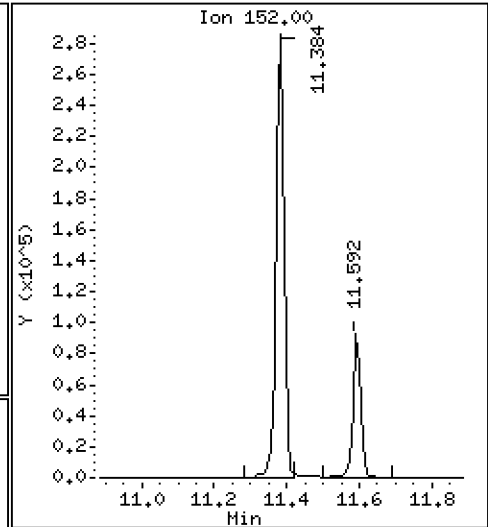
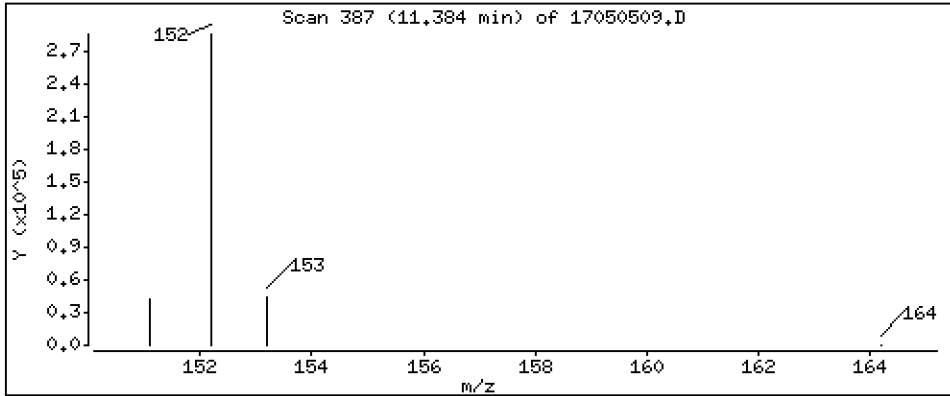
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

10 Acenaphthylene

Concentration: 247 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

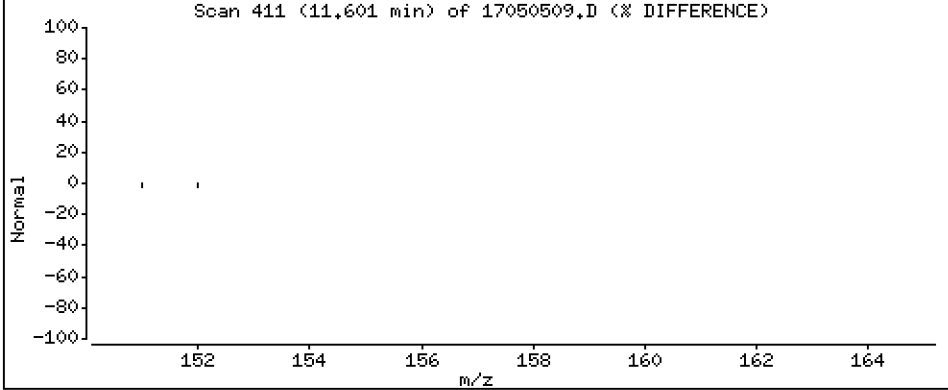
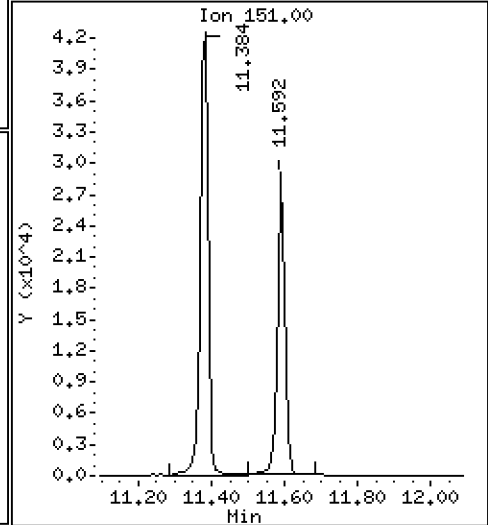
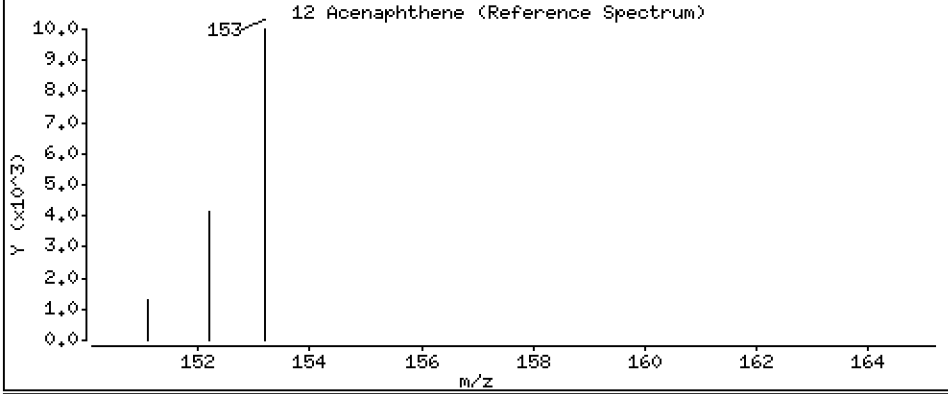
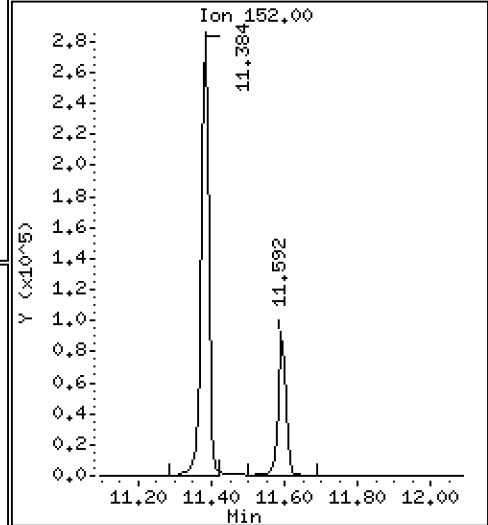
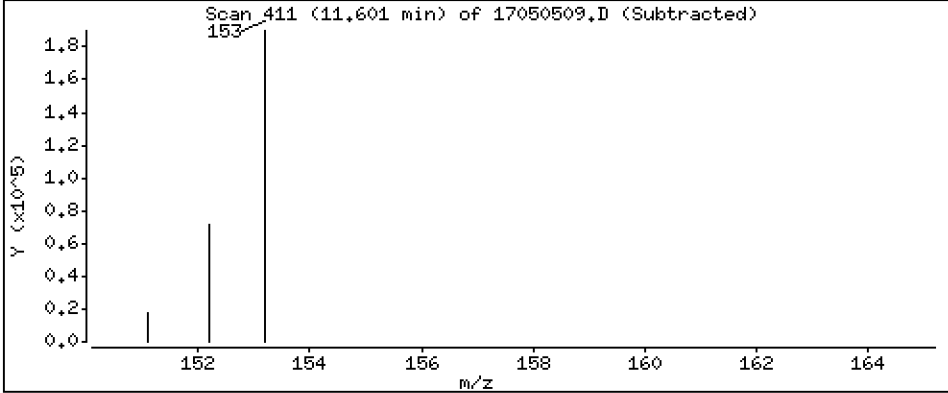
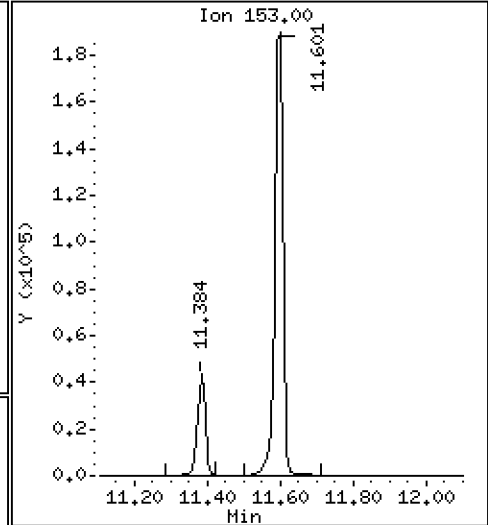
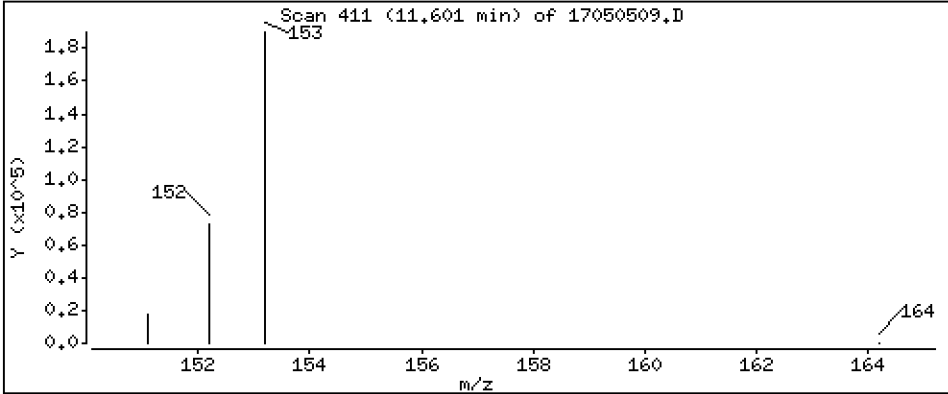
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

12 Acenaphthene

Concentration: 277 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

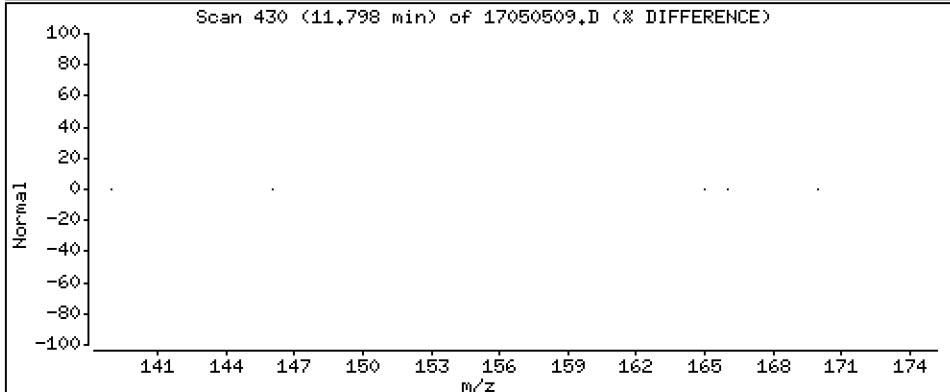
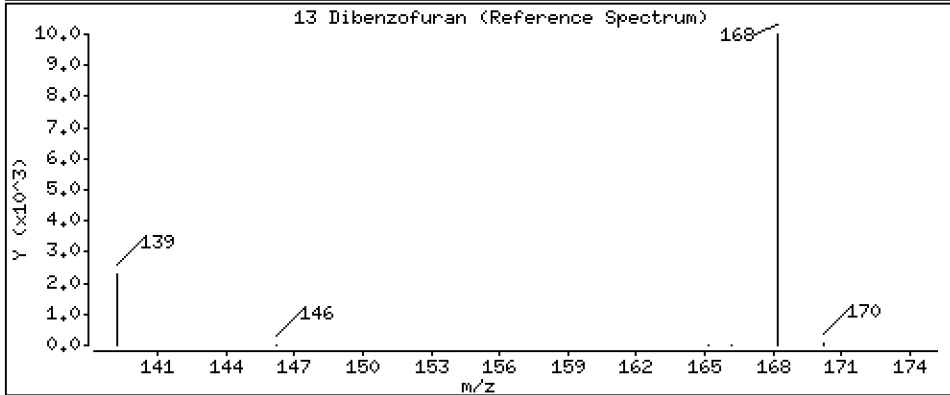
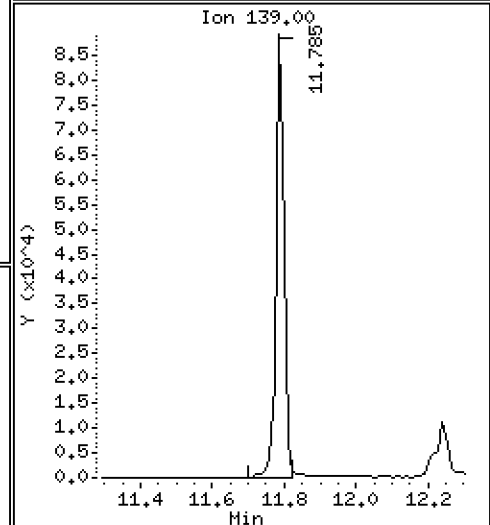
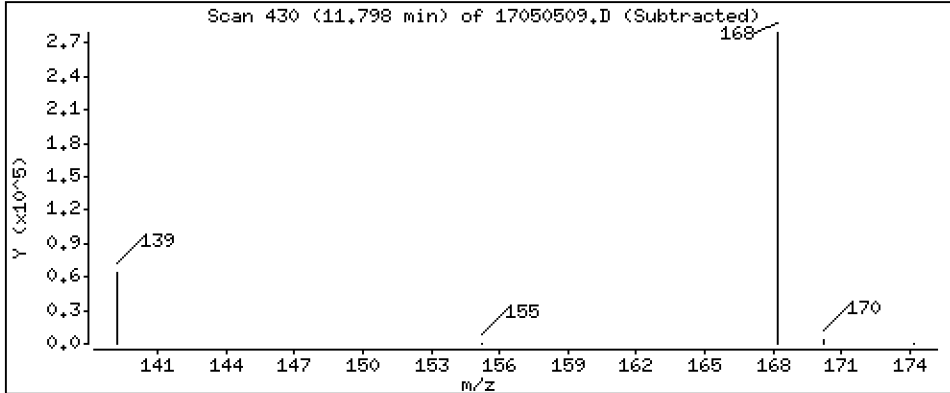
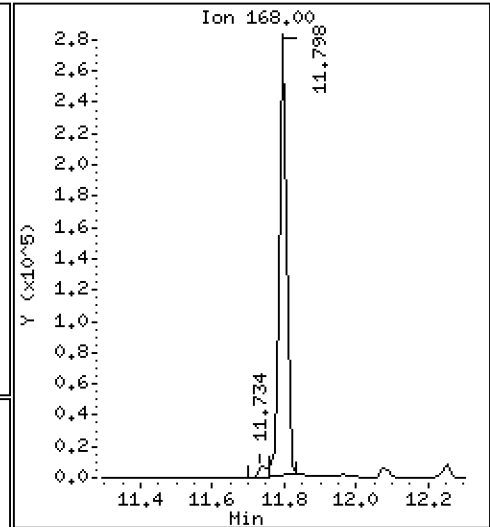
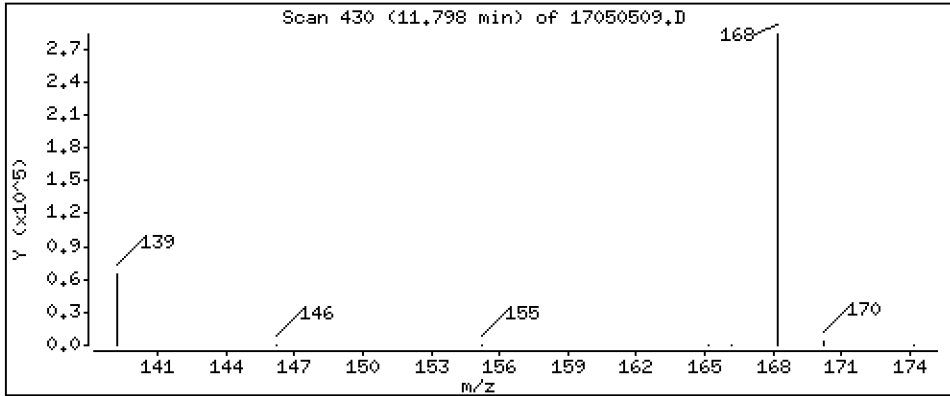
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

13 Dibenzofuran

Concentration: 253 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

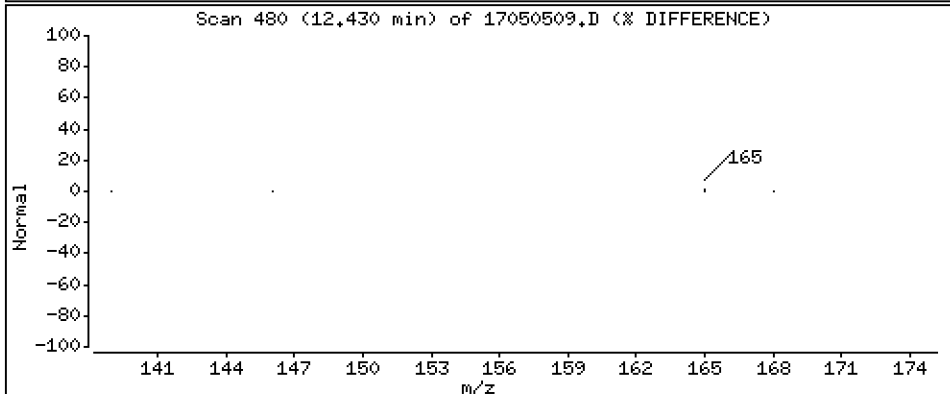
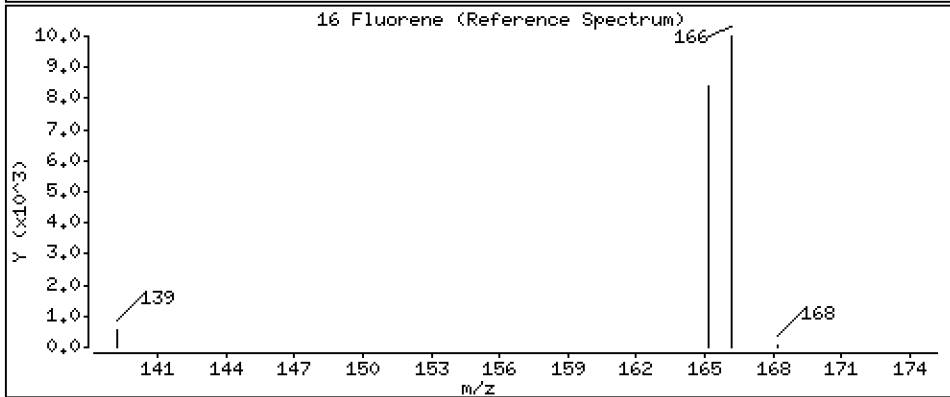
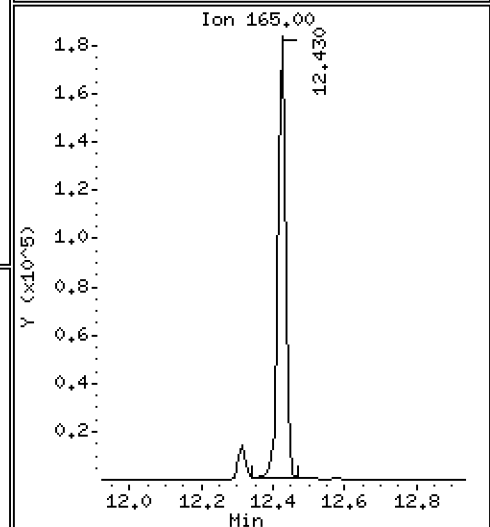
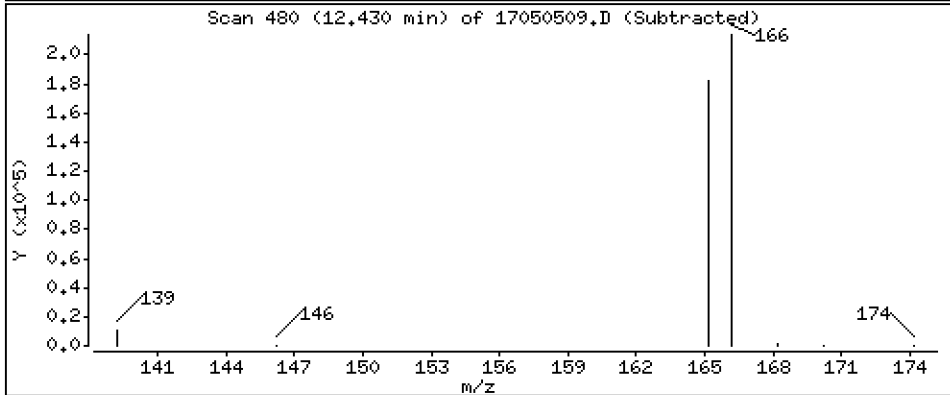
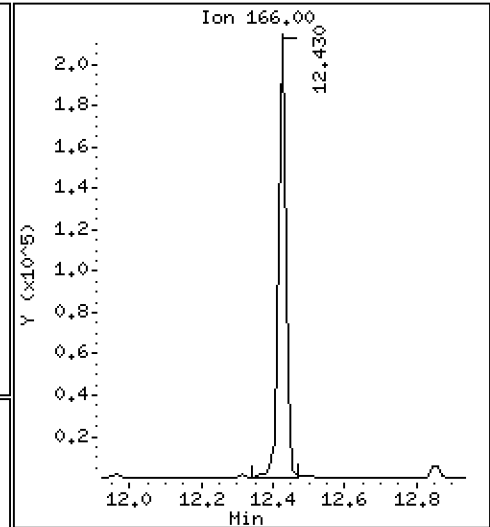
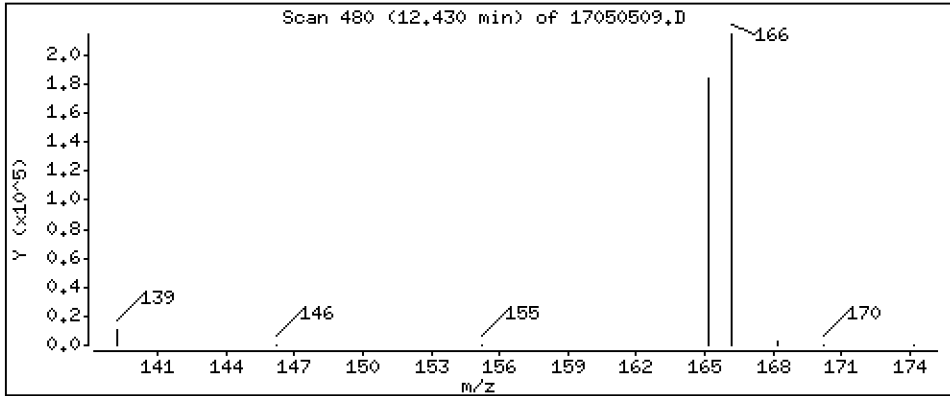
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 Fluorene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

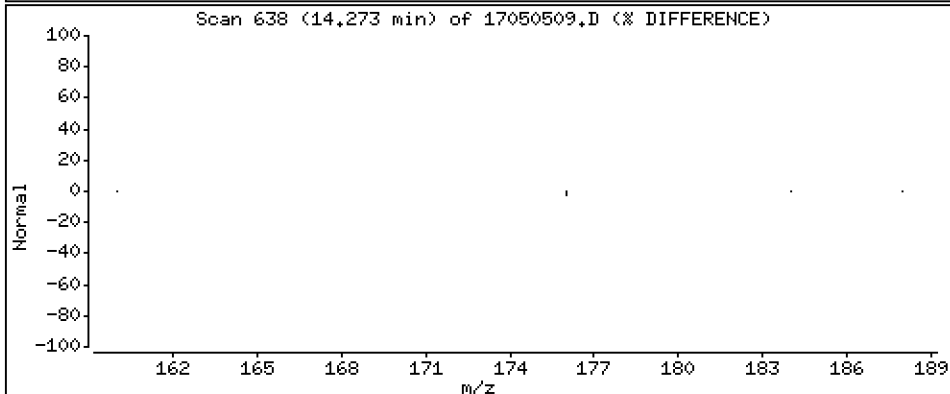
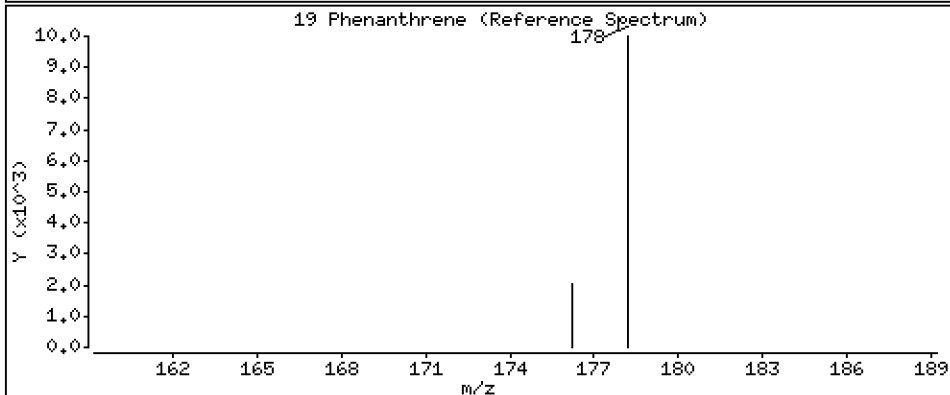
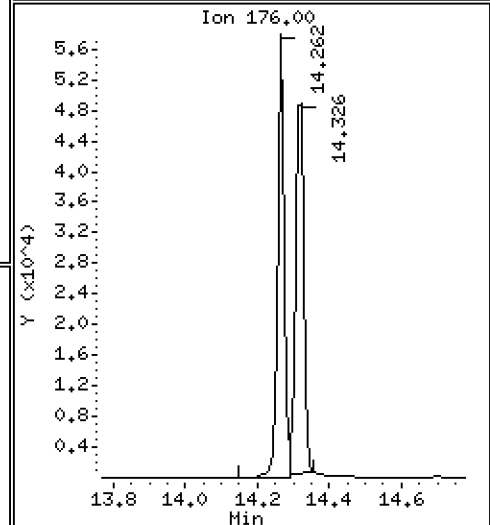
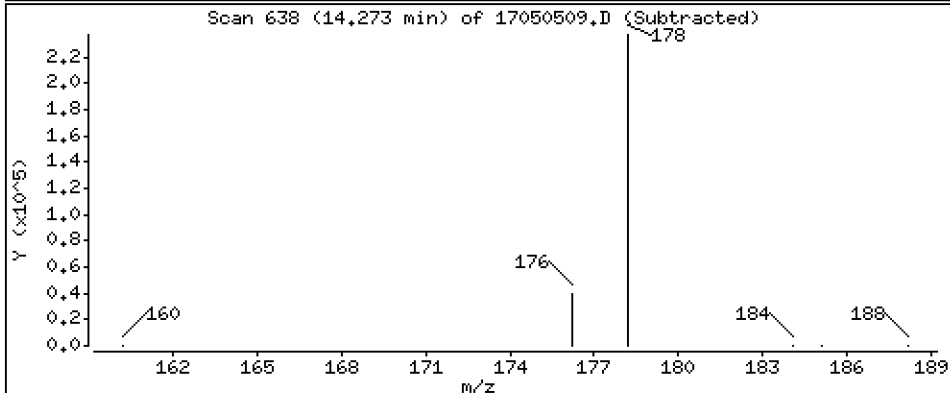
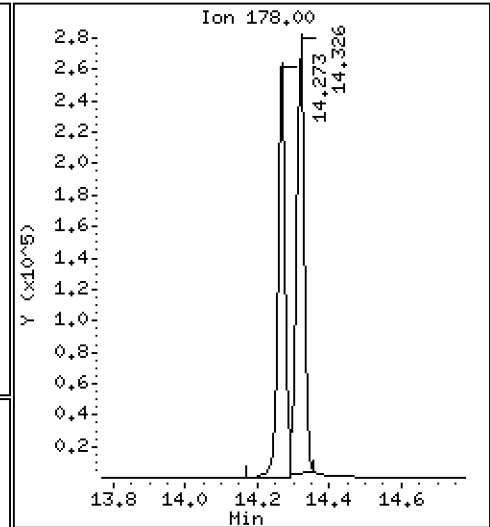
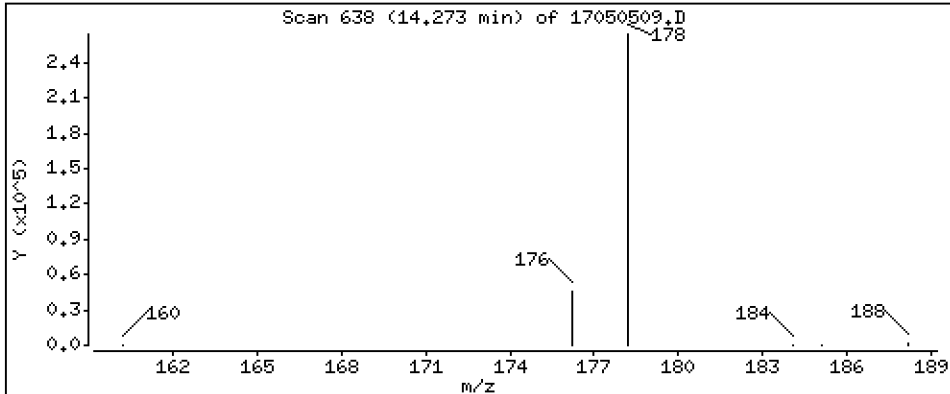
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 Phenanthrene

Concentration: 256 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

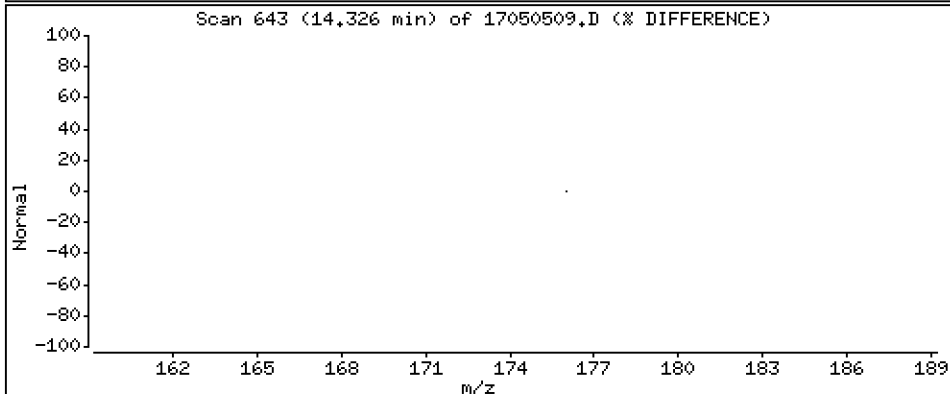
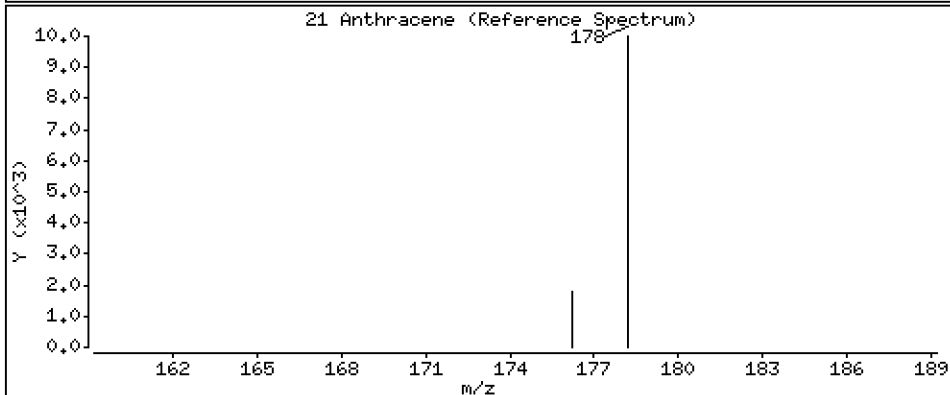
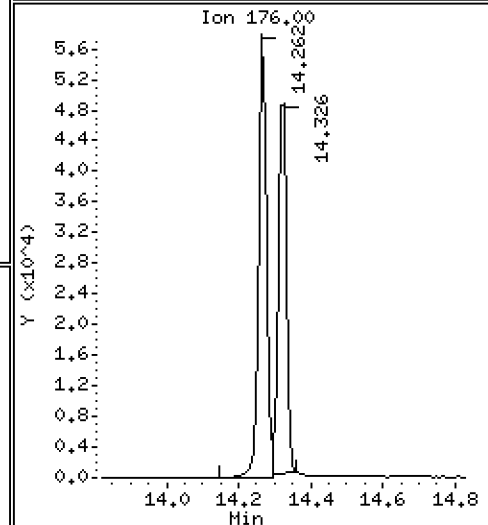
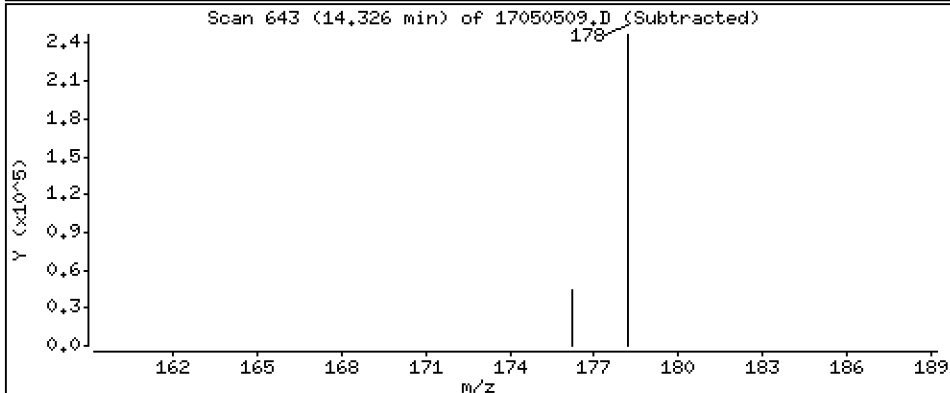
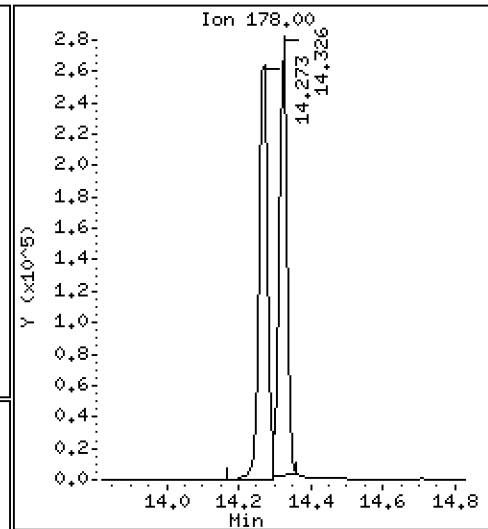
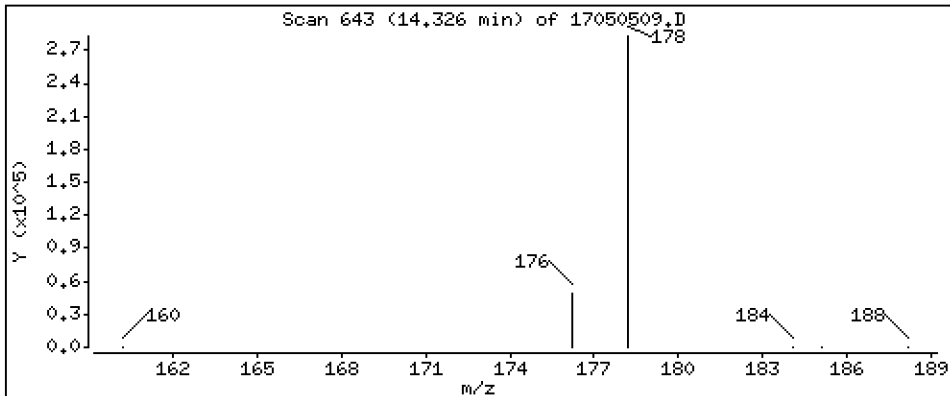
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

21 Anthracene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

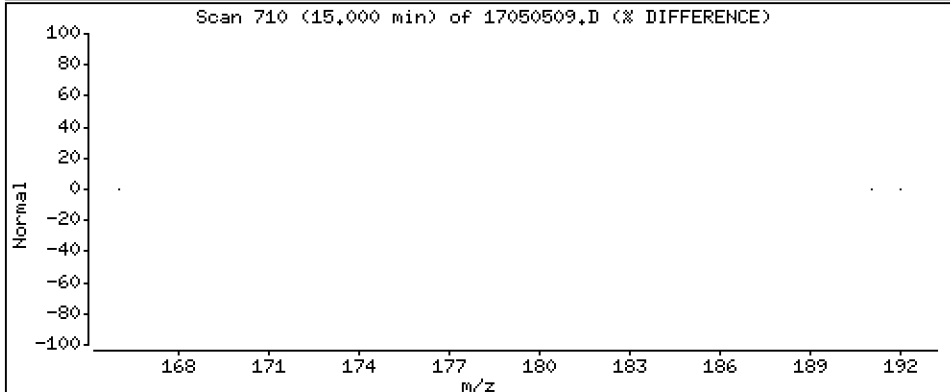
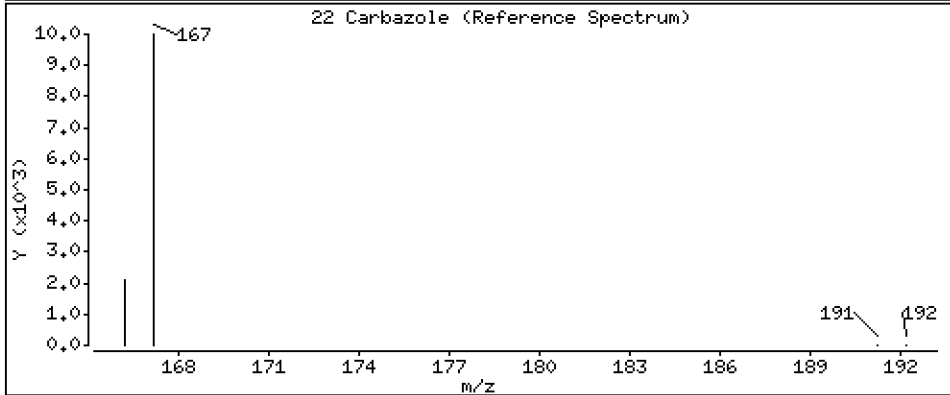
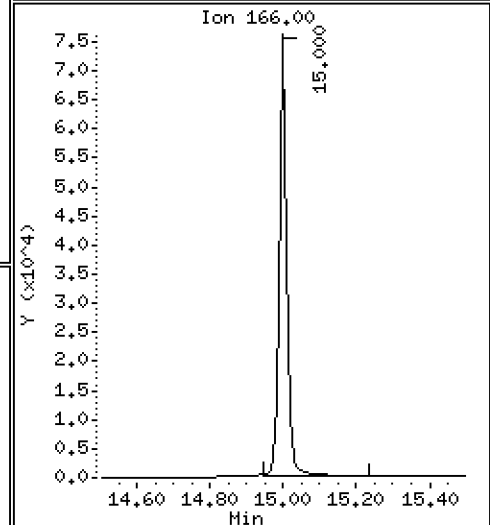
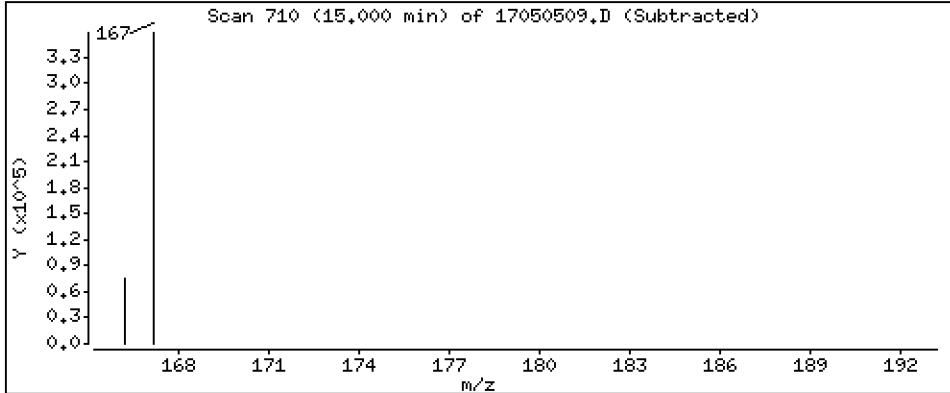
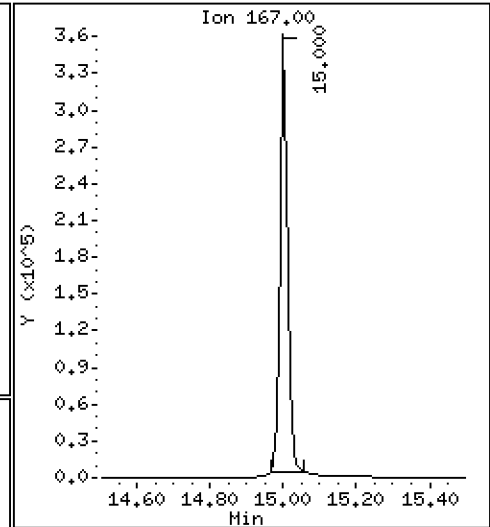
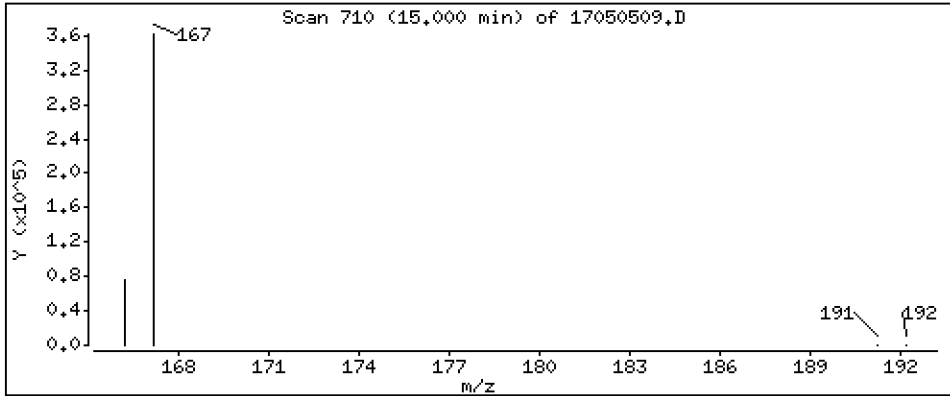
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Carbazole

Concentration: 252 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

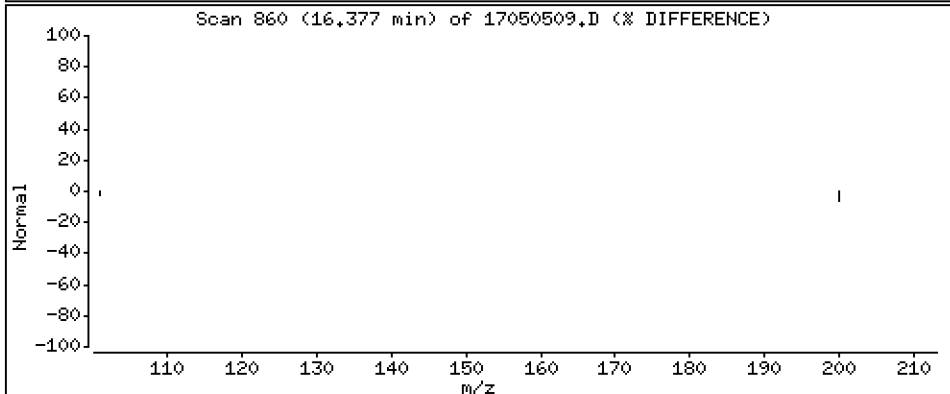
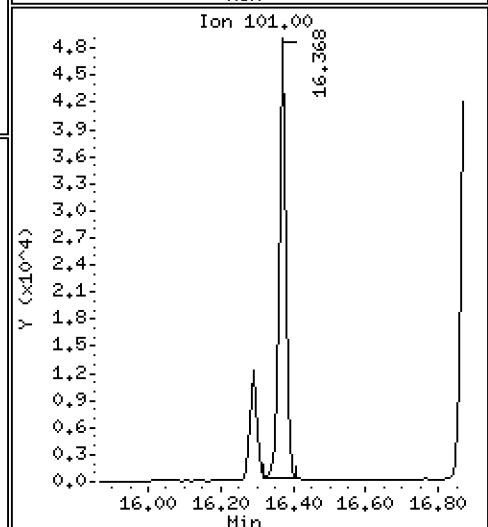
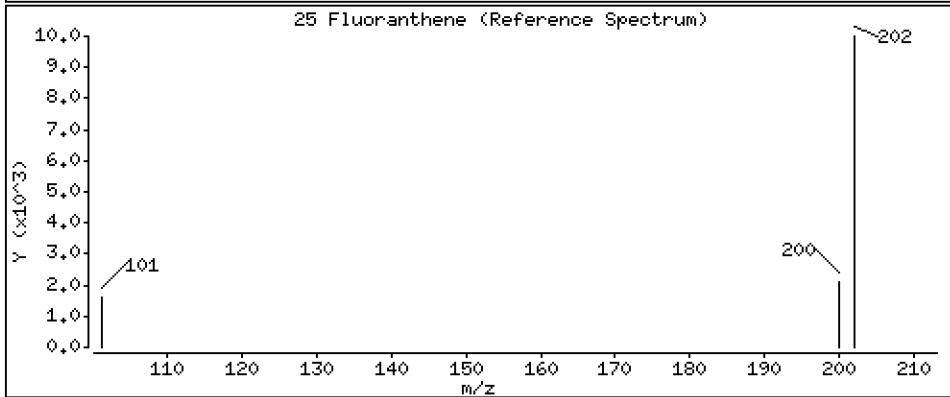
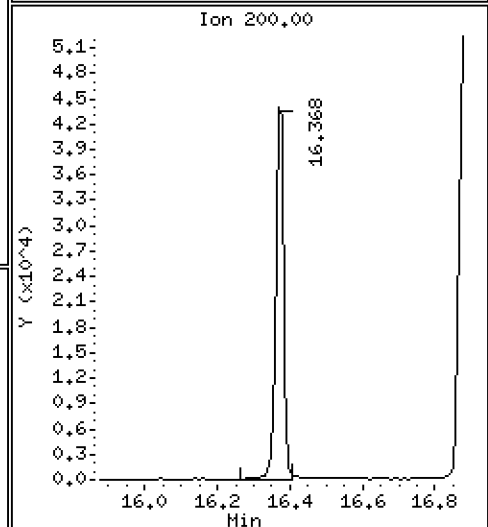
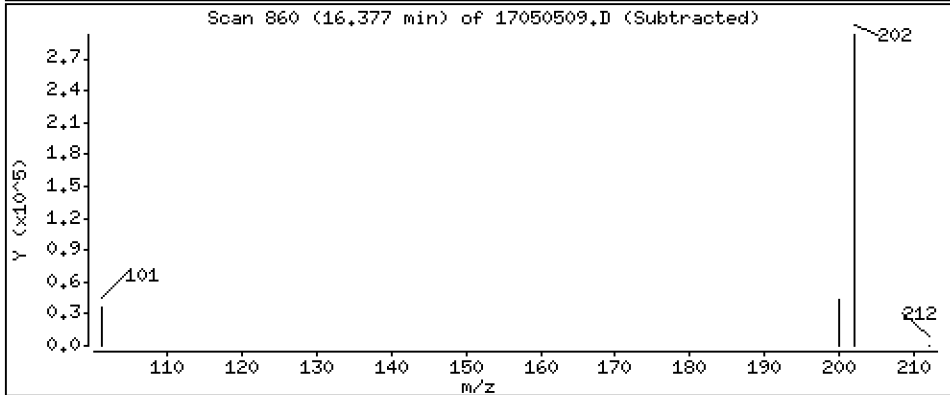
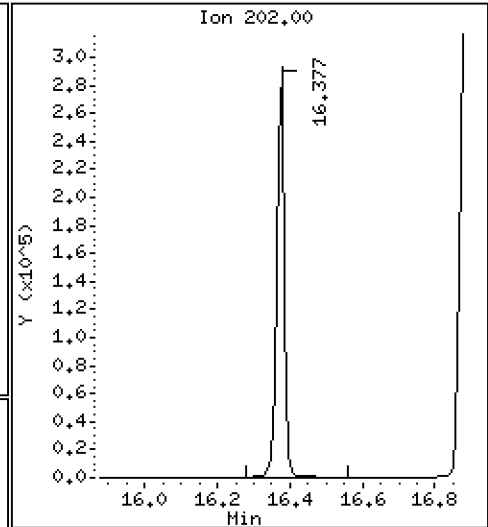
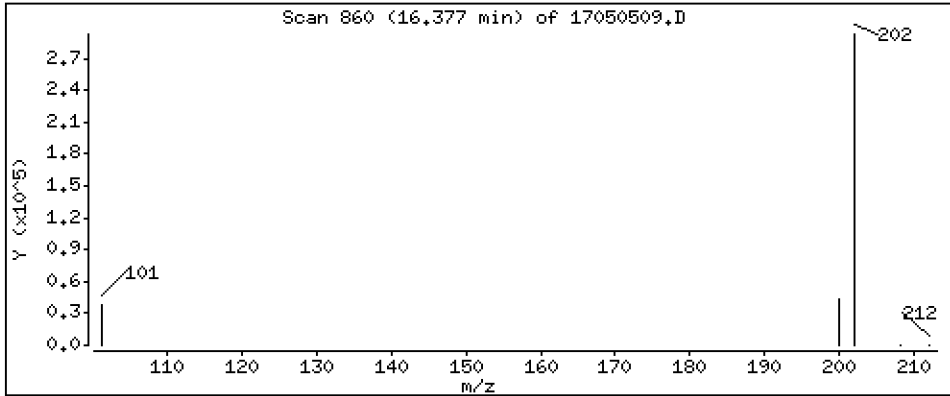
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

25 Fluoranthene

Concentration: 262 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

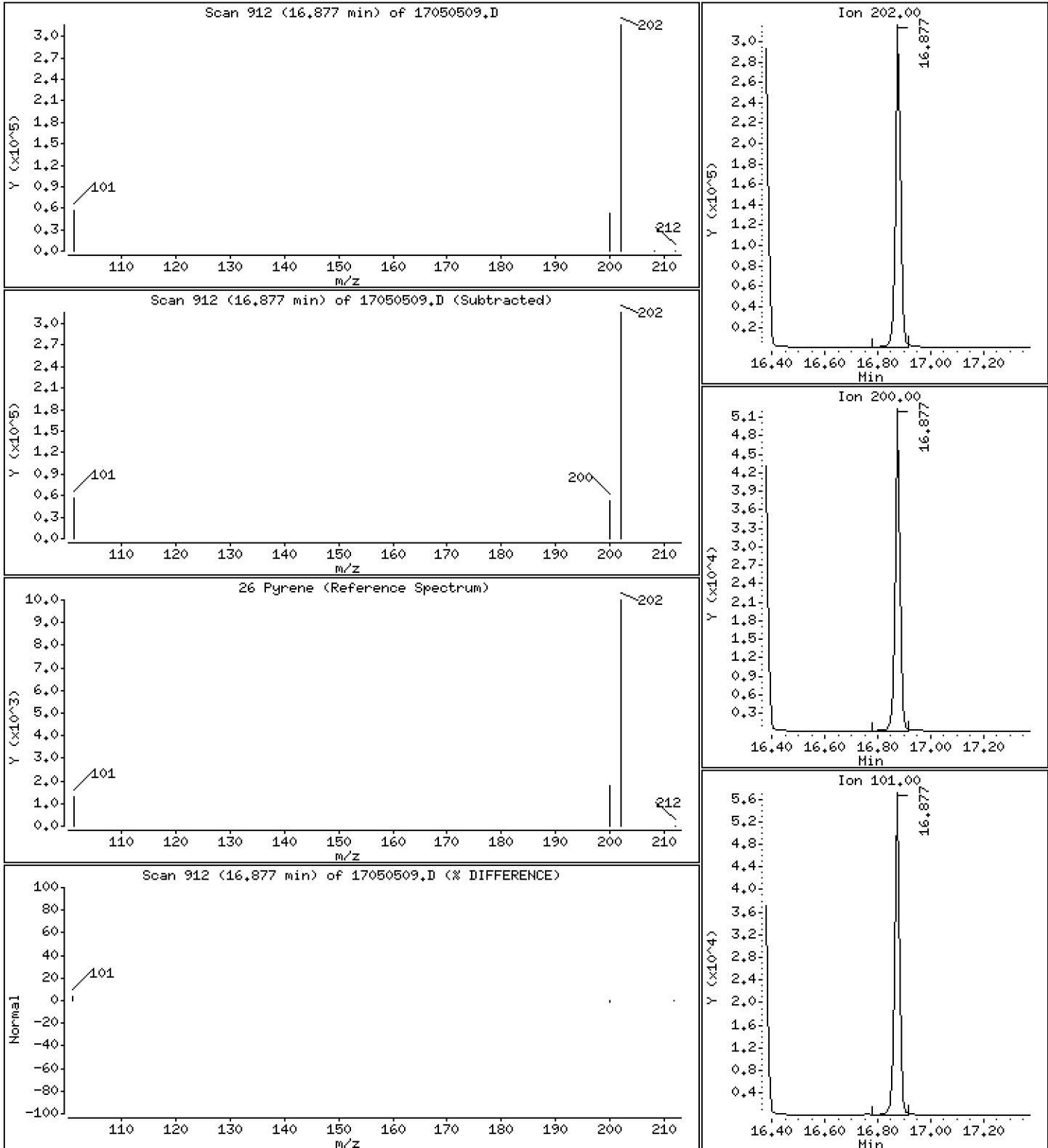
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Pyrene

Concentration: 255 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

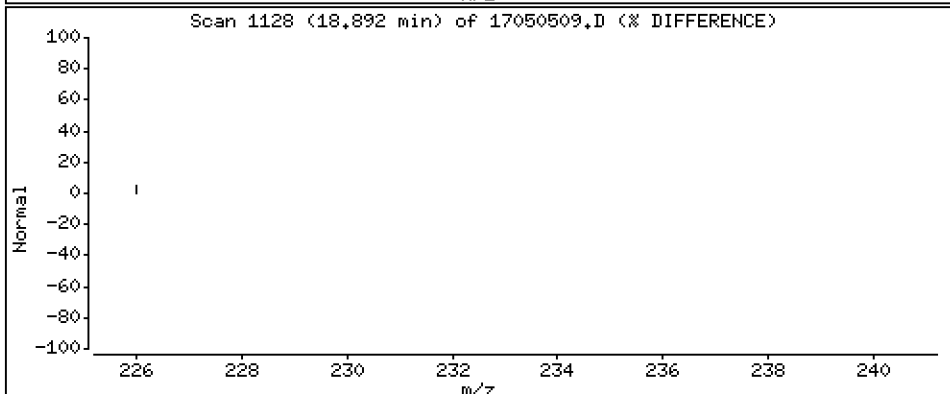
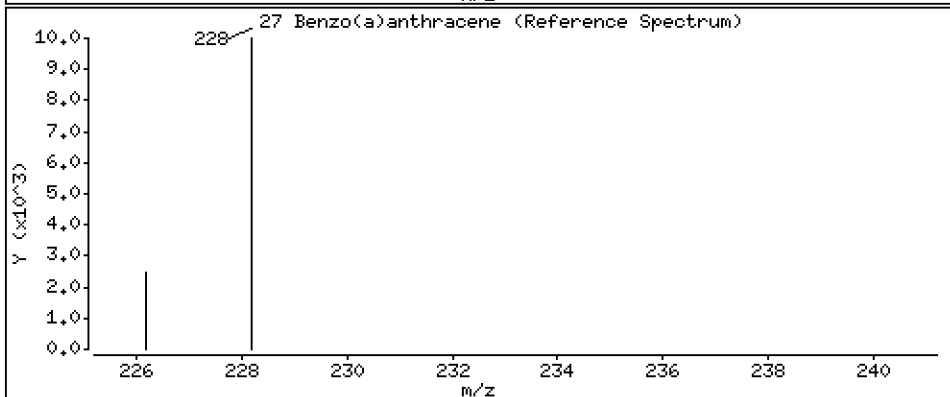
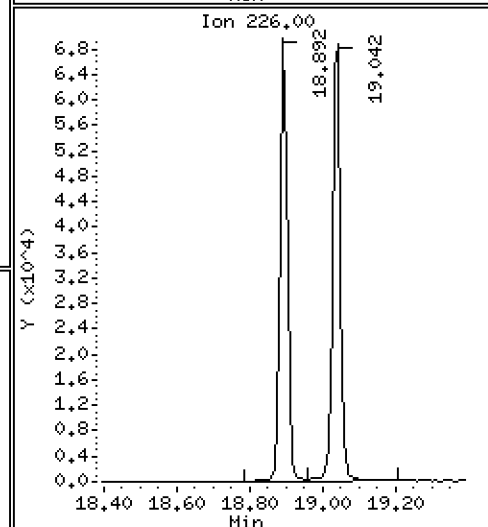
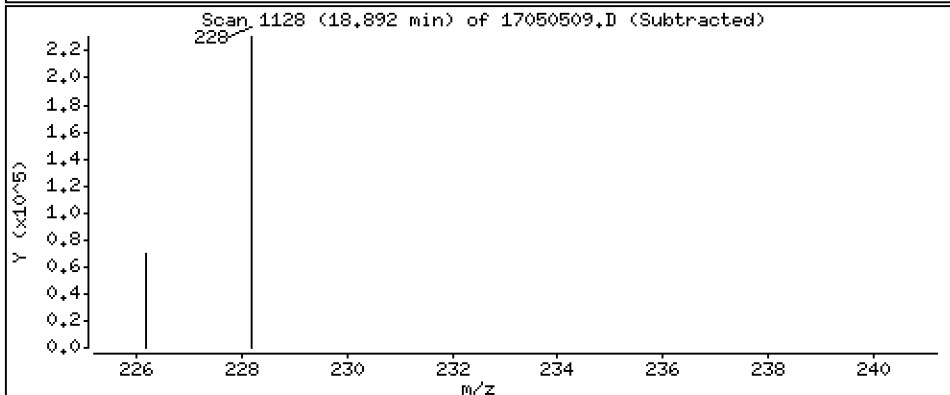
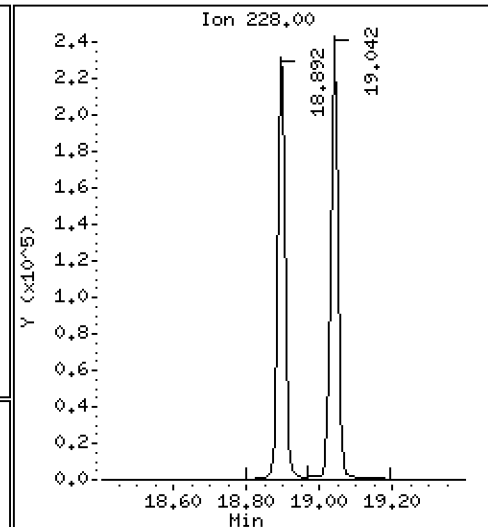
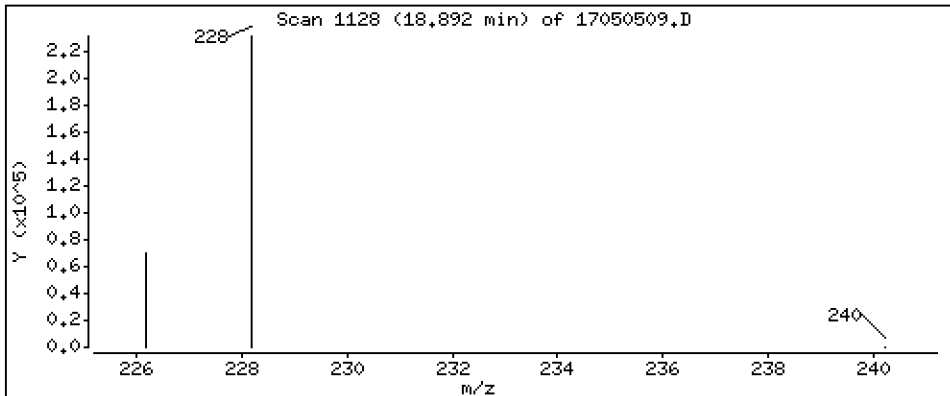
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

27 Benzo(a)anthracene

Concentration: 261 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

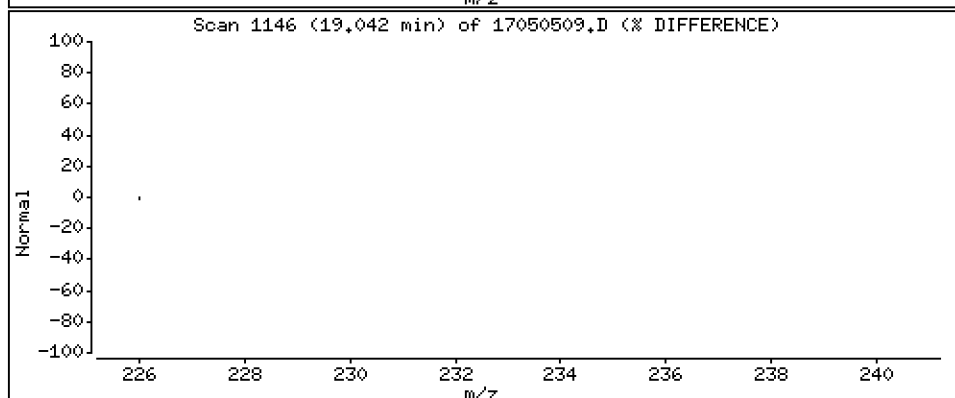
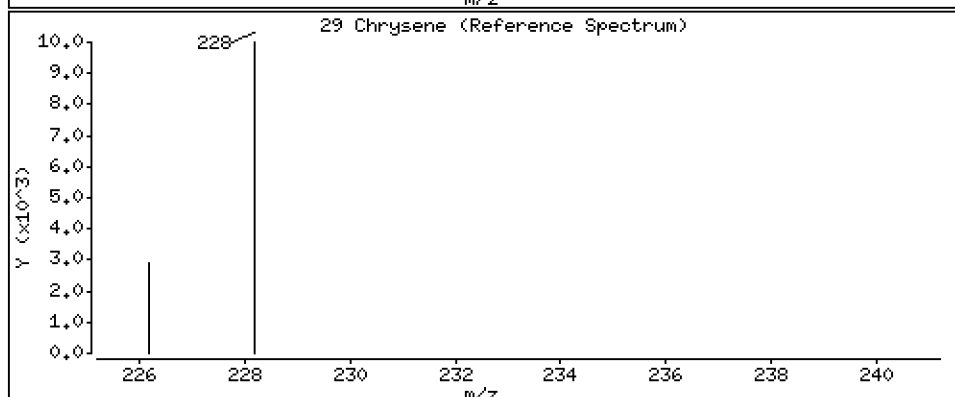
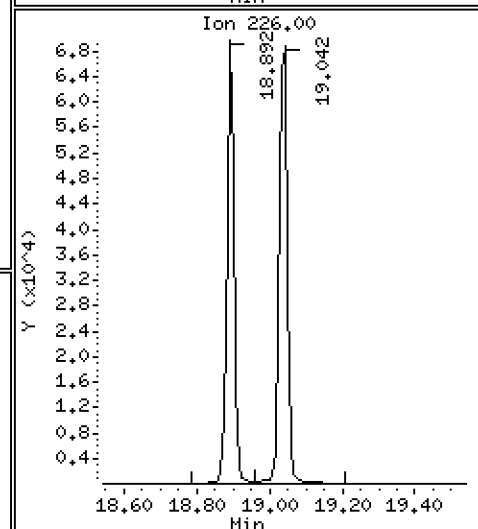
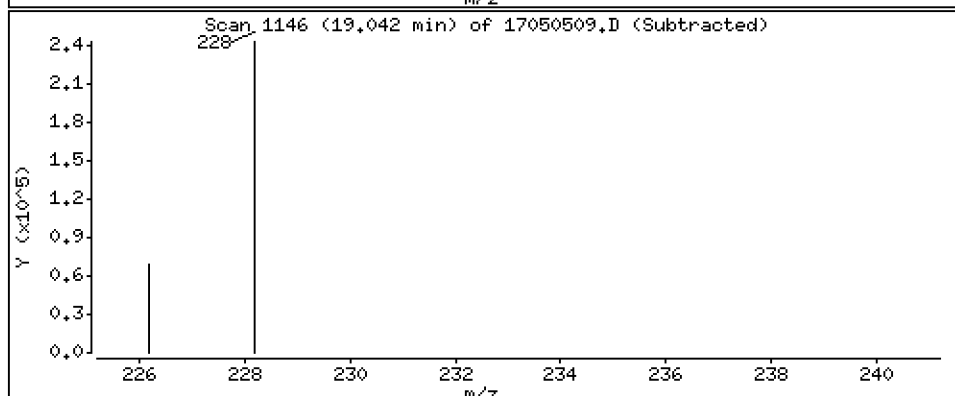
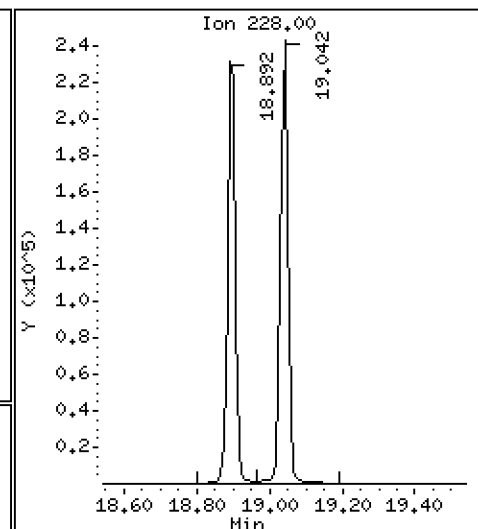
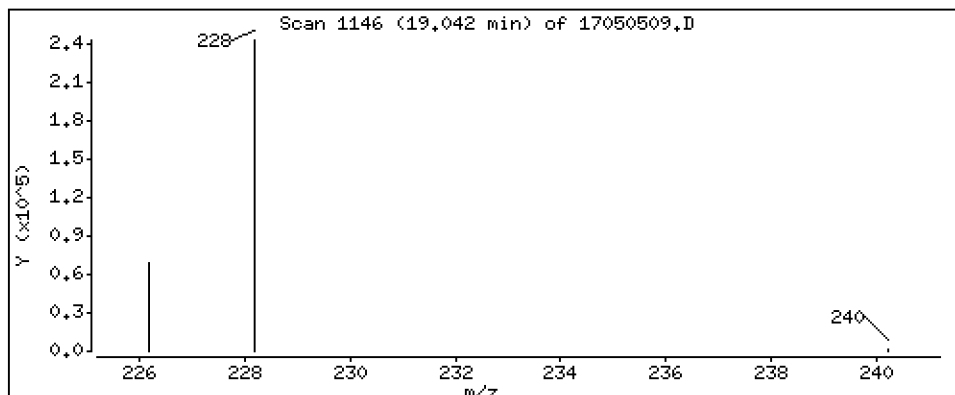
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

29 Chrysene

Concentration: 250 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

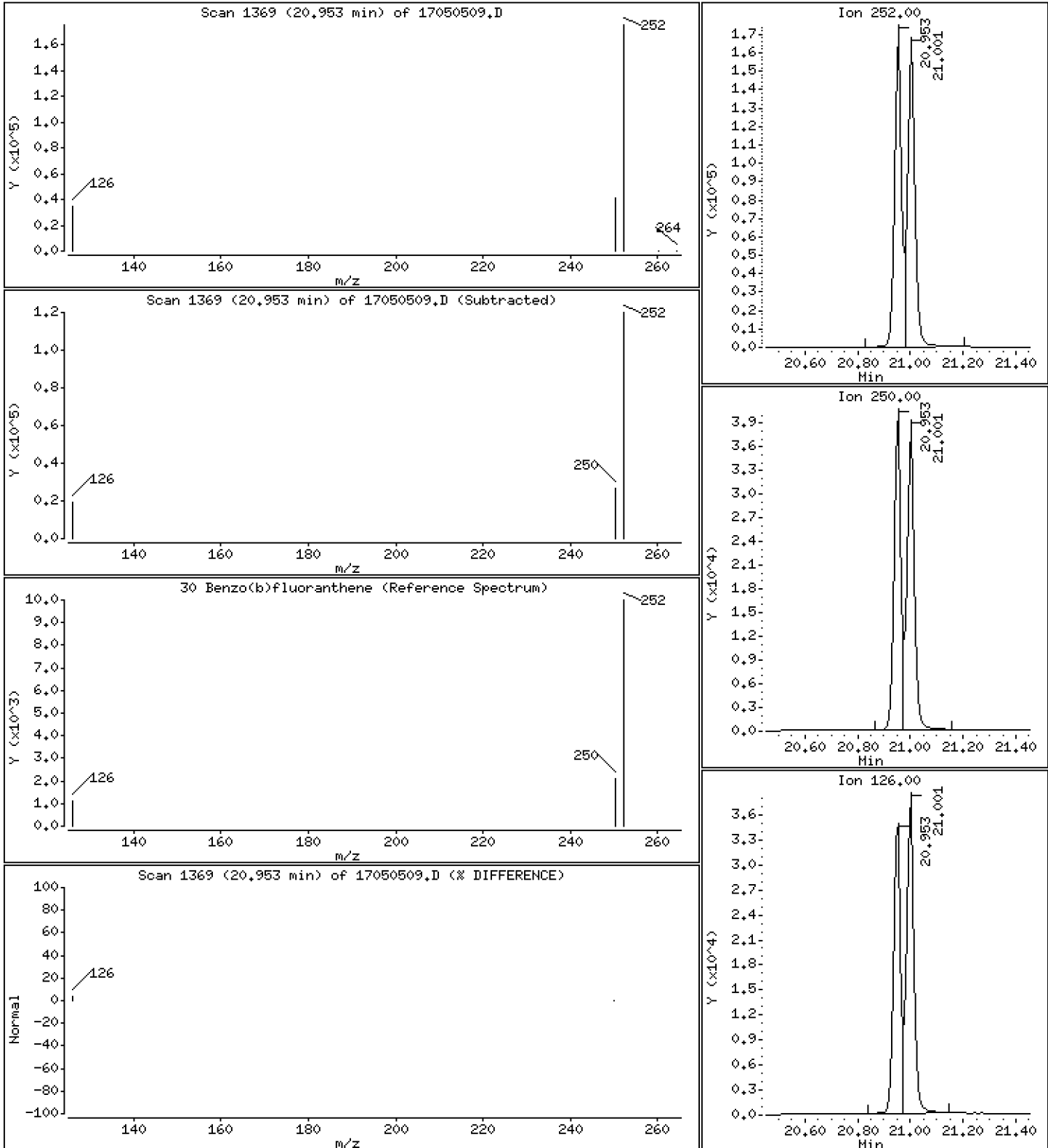
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Benzo(b)fluoranthene

Concentration: 268 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

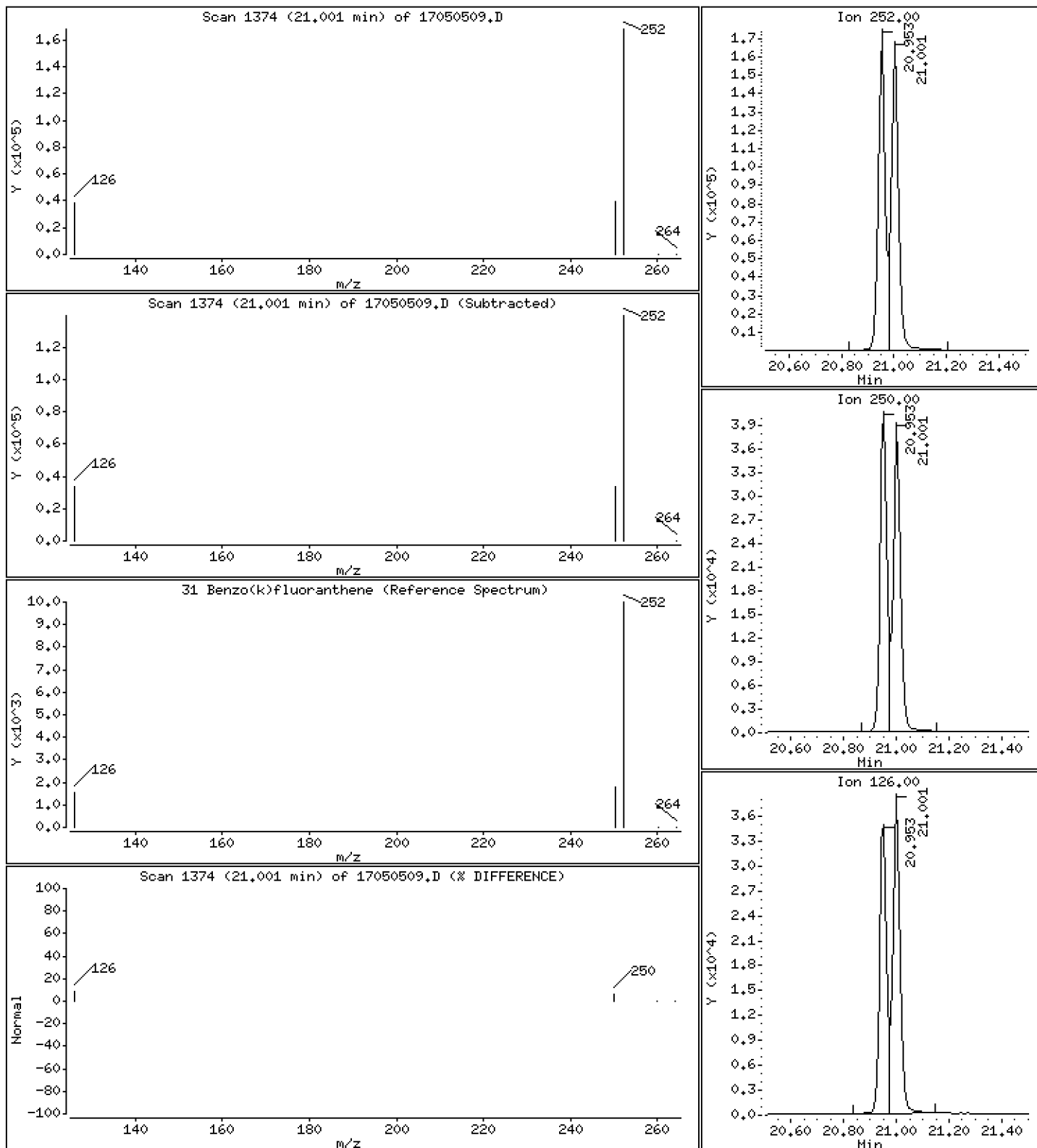
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

31 Benzo(k)fluoranthene

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

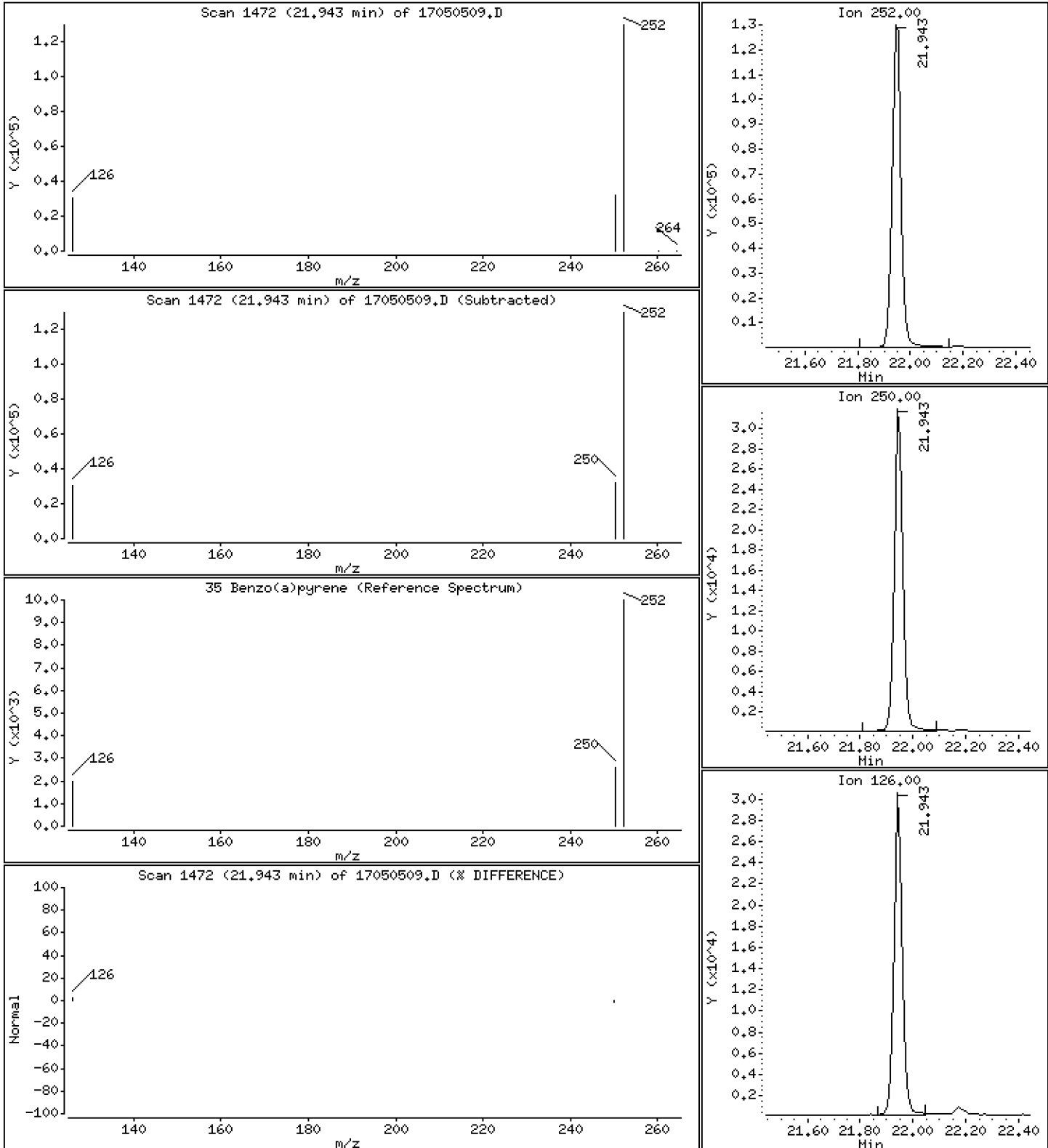
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

35 Benzo(a)pyrene

Concentration: 265 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

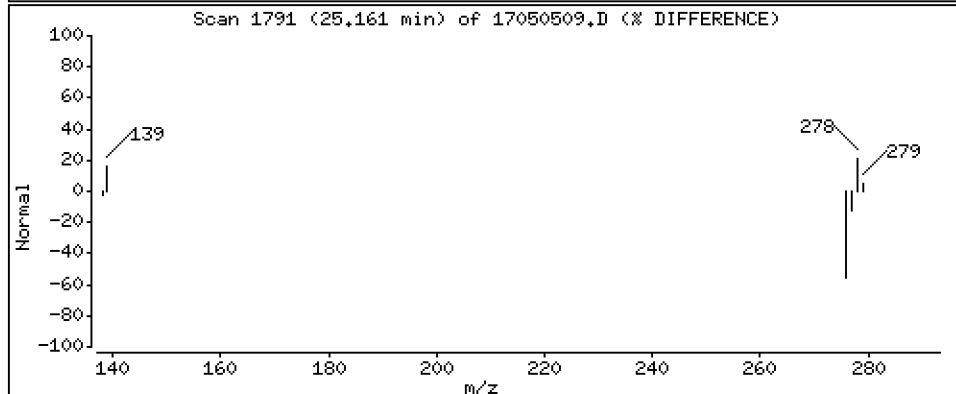
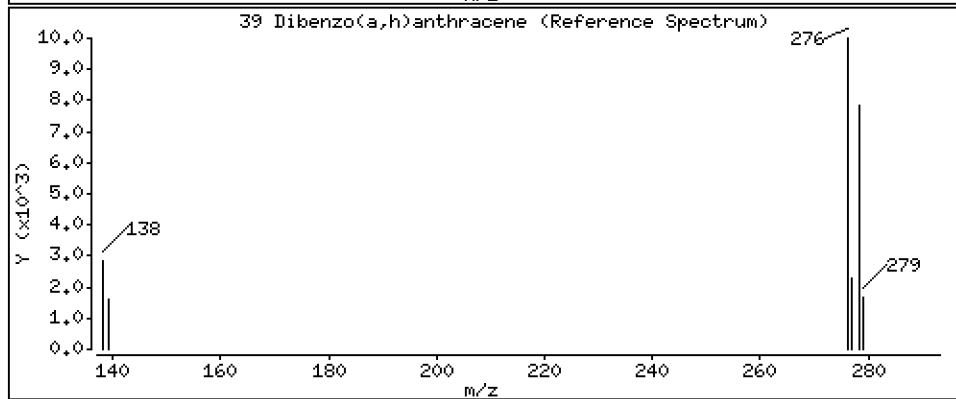
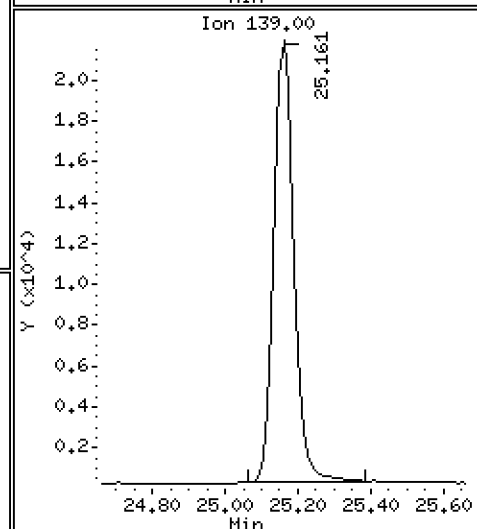
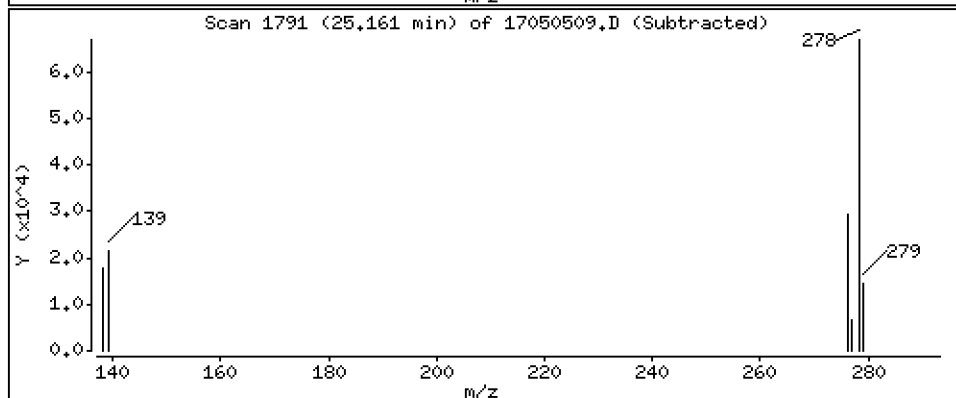
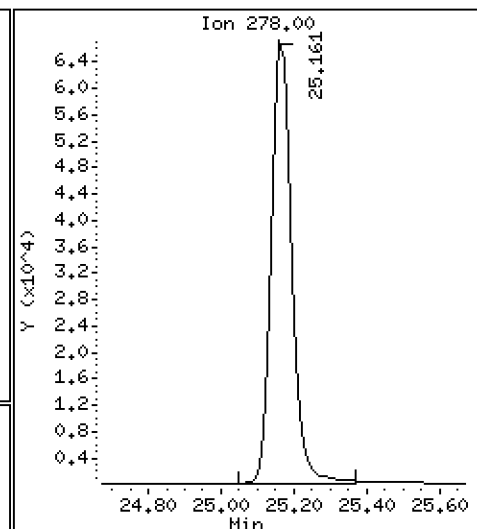
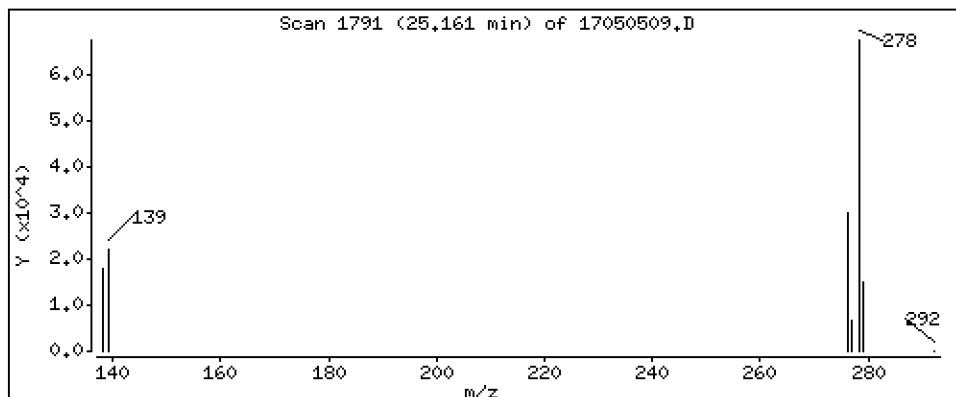
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

39 Dibenzo(a,h)anthracene

Concentration: 260 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

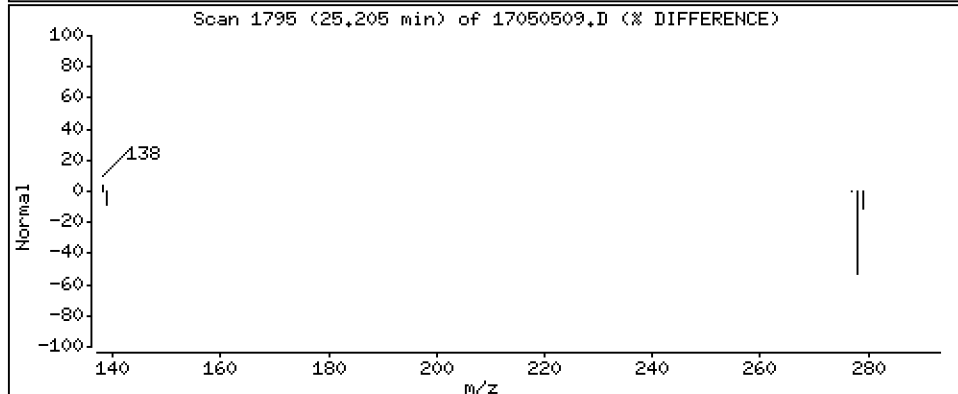
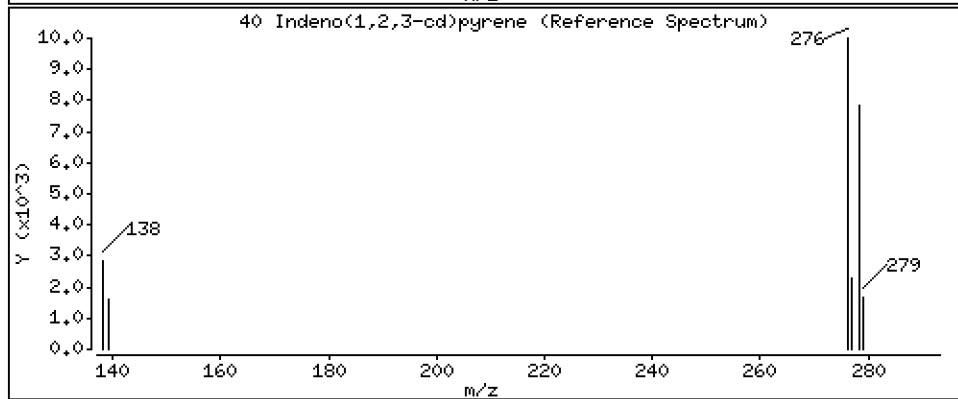
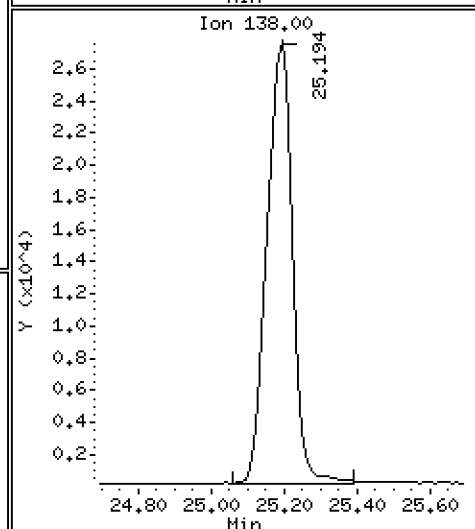
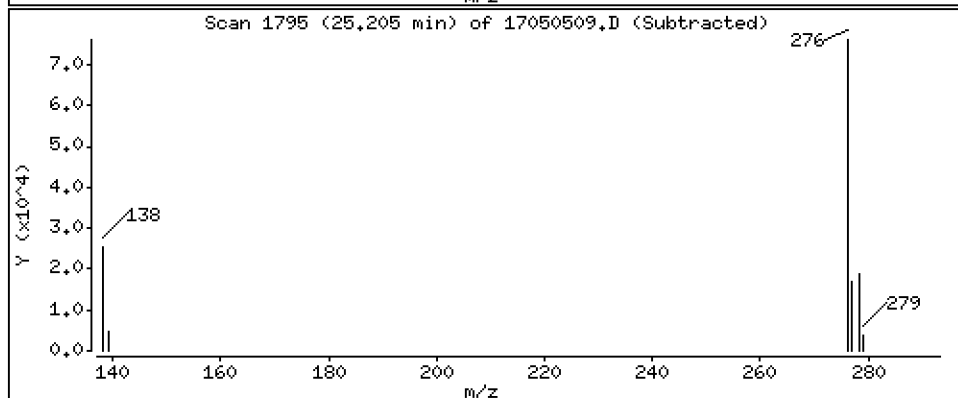
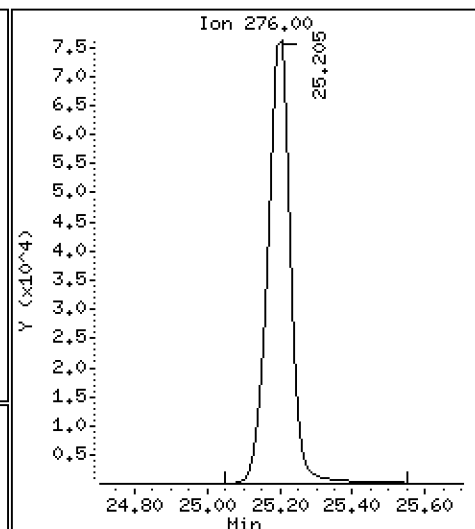
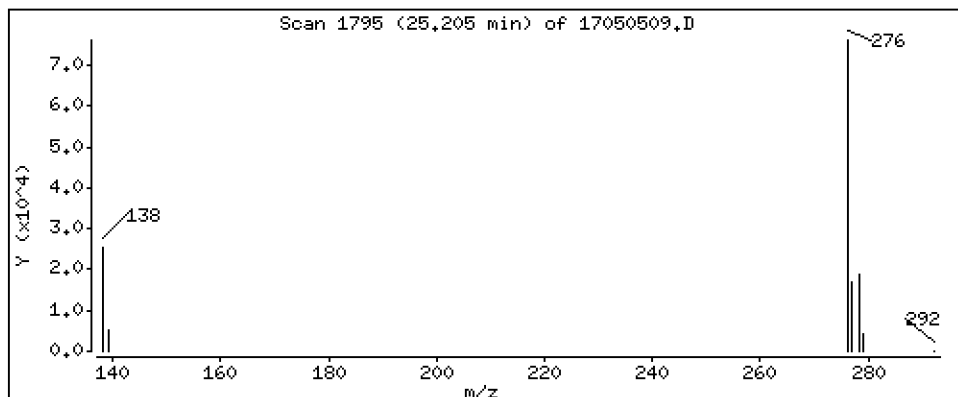
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

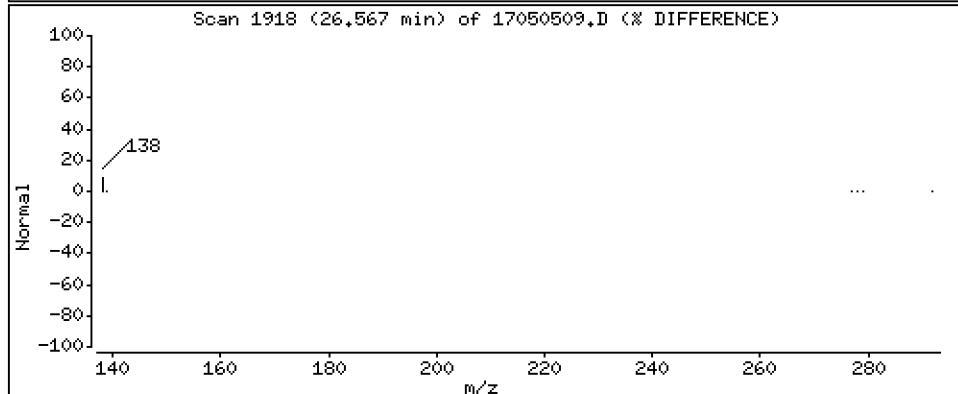
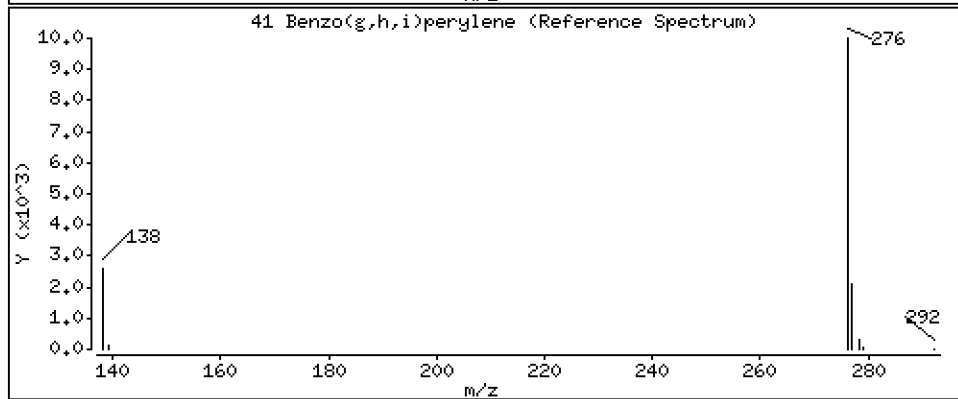
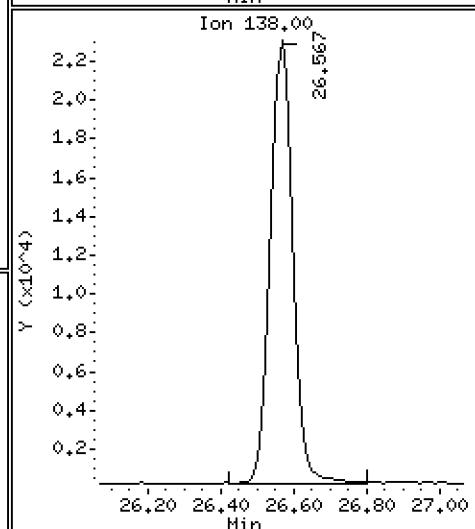
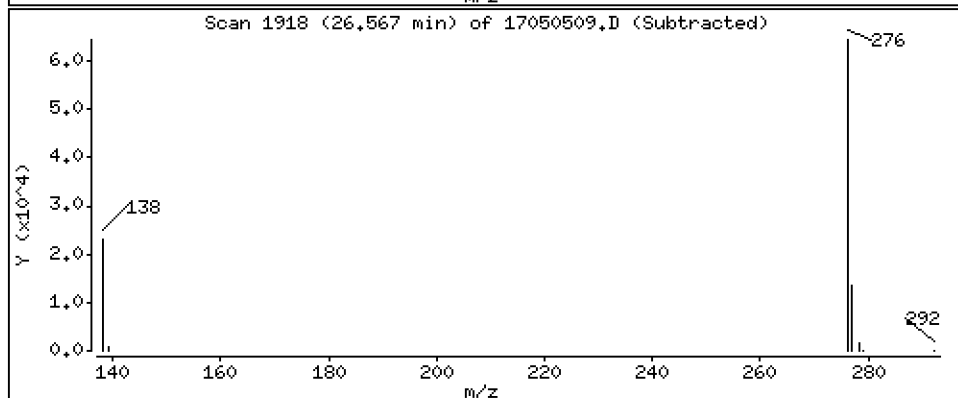
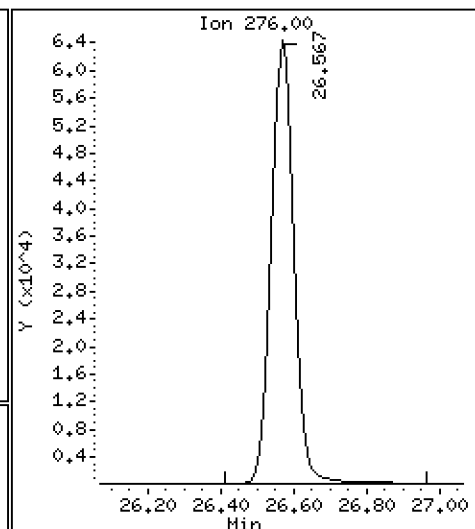
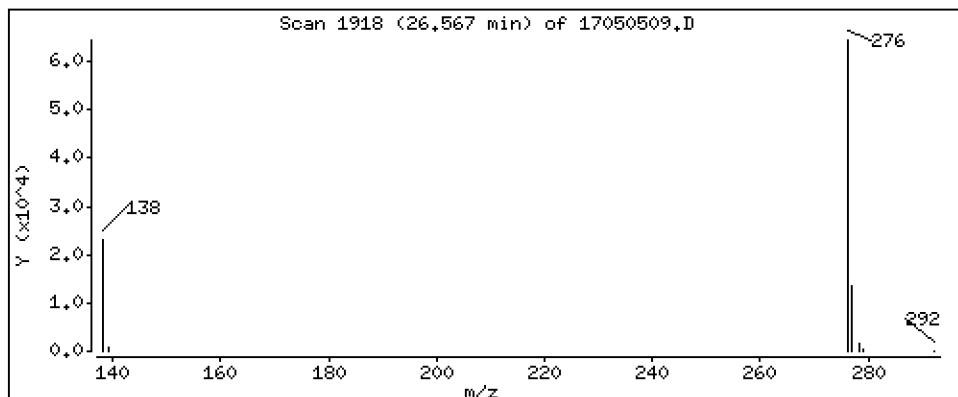
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

41 Benzo(g,h,i)perylene

Concentration: 262 ng/mL



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050509.D

Lab Smp Id: SFE0059-SCV1

Inj Date : 05-MAY-2017 15:23

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-SCV1

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ng/mL)
* 1 Naphthalene-d8	136		8.499	8.499	(1.000)	353470	200.000	
2 Naphthalene	128		8.536	8.536	(1.004)	456586	240.358	240
3 Benzo(b)thiophene	134		Compound Not Detected.					
\$ 4 2-Methylnaphthalene-d10	152		Compound Not Detected.					
5 2-Methylnaphthalene	142		9.540	9.540	(1.122)	450543	257.139	257
6 1-Methylnaphthalene	142		9.792	9.802	(1.152)	418203	246.808	247
7 2-Chloronaphthalene	162		10.454	10.454	(0.906)	373488	246.373	246
8 Biphenyl	154		Compound Not Detected.					
9 2,6-Dimethylnaphthalene	156		Compound Not Detected.					
10 Acenaphthylene	152		11.383	11.383	(0.987)	422022	246.846	247
* 11 Acenaphthene-d10	164		11.537	11.537	(1.000)	145863	200.000	
12 Acenaphthene	153		11.600	11.600	(1.005)	309187	276.562	277
13 Dibenzofuran	168		11.797	11.797	(1.023)	389481	252.504	253
14 2,3,5-Trimethylnaphthalene	170		Compound Not Detected.					
\$ 15 Fluorene-d10	174		Compound Not Detected.					
16 Fluorene	166		12.429	12.429	(1.077)	309438	257.250	257
17 Dibenzothiophene	184		Compound Not Detected.					
* 18 Phenanthrene-d10	188		14.230	14.230	(1.000)	234202	200.000	
19 Phenanthrene	178		14.272	14.272	(1.003)	446151	255.907	256
\$ 20 Anthracene-d10	188		Compound Not Detected.					
21 Anthracene	178		14.325	14.325	(1.007)	412225	240.004	240
22 Carbazole	167		15.000	14.999	(1.054)	504276	252.234	252
23 1-Methylphenanthrene	192		Compound Not Detected.					
\$ 24 Fluoranthene-d10	212		Compound Not Detected.					
25 Fluoranthene	202		16.377	16.377	(1.151)	439149	262.112	262
26 Pyrene	202		16.876	16.876	(0.889)	438217	255.184	255
27 Benzo(a)anthracene	228		18.892	18.900	(0.995)	352034	260.623	261
* 28 Chrysene-d12	240		18.991	18.991	(1.000)	189686	200.000	
29 Chrysene	228		19.041	19.041	(1.003)	348116	249.715	250
30 Benzo(b)fluoranthene	252		20.953	20.953	(0.945)	342991	267.607	268
31 Benzo(k)fluoranthene	252		21.001	21.010	(0.947)	335630	264.150	264
32 Benzo(j)fluoranthene	252		Compound Not Detected.					
\$ 33 Benzo(e)pyrene-d12	264		Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ng/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
34 Benzo(e)pyrene	252	Compound Not Detected.						
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	306973	264.763	265	
* 36 Perylene-d12	264	22.183	22.182	(1.000)	205114	200.000		
37 Perylene	252	Compound Not Detected.						
§ 38 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.						
39 Dibenzo(a,h)anthracene	278	25.160	25.171	(1.134)	254355	259.573	260	
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	323142	264.219	264	
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	273990	261.892	262	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050509.D
 Lab Smp Id: SFE0059-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	353470	-4.81
11 Acenaphthene-d10	154428	77214	308856	145863	-5.55
18 Phenanthrene-d10	256956	128478	513912	234202	-8.86
28 Chrysene-d12	208629	104315	417258	189686	-9.08
36 Perylene-d12	225431	112716	450862	205114	-9.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050509.D

Lab ID: SFE0059-SCV1
nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 15:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Calibration: AE00020

Laboratory ID: SFE0059-SCV1

Sequence: SFE0059

Standard ID: F004123

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
Naphthalene	250.00	240	-3.9	20.00
2-Methylnaphthalene	250.00	257	2.9	20.00
Acenaphthylene	250.00	247	-1.3	20.00
Acenaphthene	250.00	277	10.6	20.00
Dibenzofuran	250.00	253	1.0	20.00
Fluorene	250.00	257	2.9	20.00
Phenanthrene	250.00	256	2.4	20.00
Anthracene	250.00	240	-4.0	20.00
Fluoranthene	250.00	262	4.8	20.00
Pyrene	250.00	255	2.1	20.00
Benzo(a)anthracene	250.00	261	4.2	20.00
Chrysene	250.00	250	-0.1	20.00
Benzo(b)fluoranthene	250.00	268	7.0	20.00
Benzo(k)fluoranthene	250.00	264	5.7	20.00
Carbazole	250.00	252	0.9	
Benzo(a)pyrene	250.00	265	5.9	20.00
Indeno(1,2,3-cd)pyrene	250.00	264	5.7	20.00
Dibenzo(a,h)anthracene	250.00	260	3.8	20.00
Benzo(g,h,i)perylene	250.00	262	4.8	20.00
1-Methylnaphthalene	250.00	247	-1.3	20.00
Benzofluoranthenes, Total	500.00	532	6.4	
2-Chloronaphthalene	250.00	246	-1.5	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170505.16\17050509.D

Date : 05-May-2017 15:23

Client ID:

Sample Info: SFE0059-SCW1

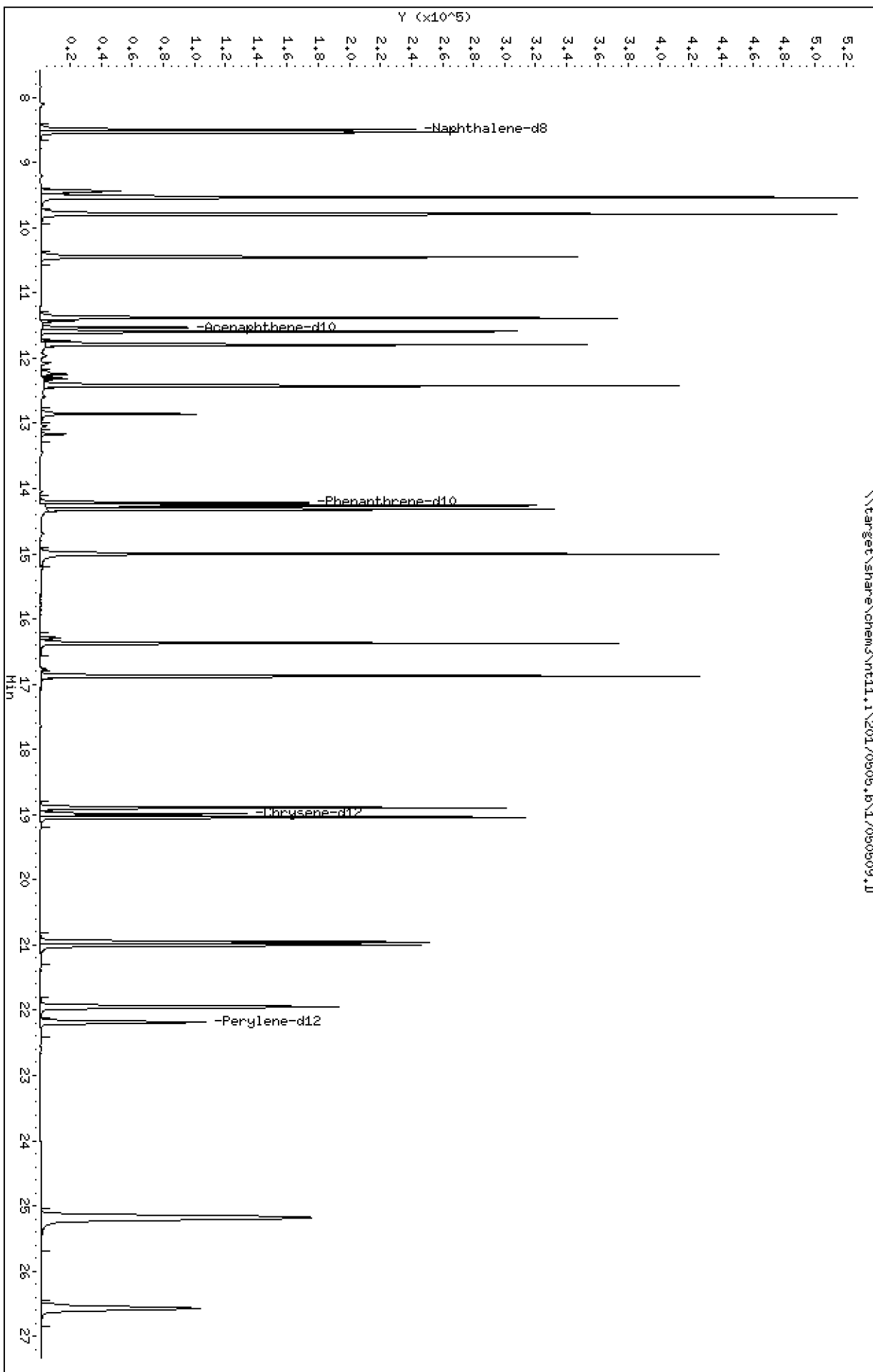
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

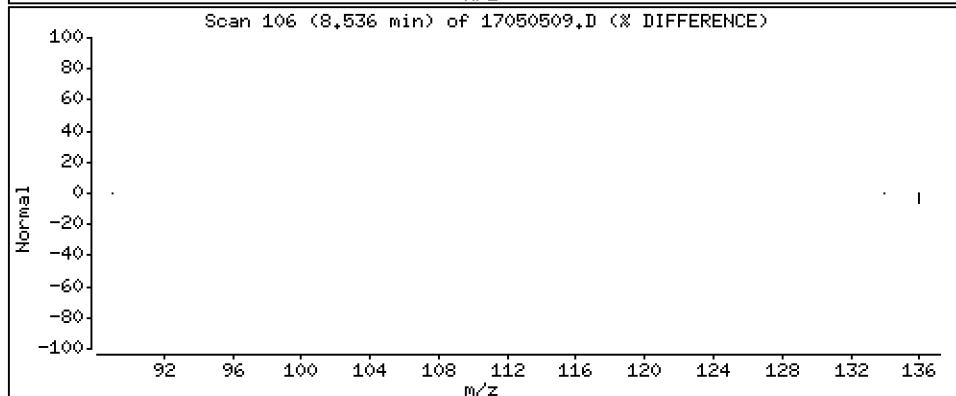
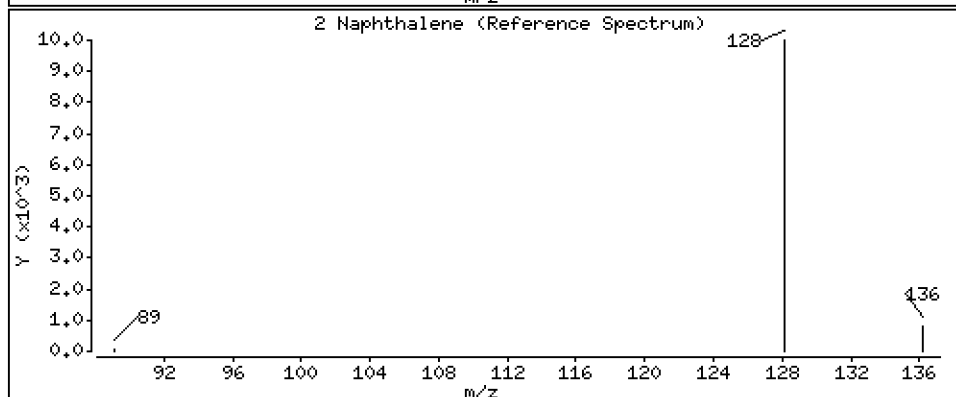
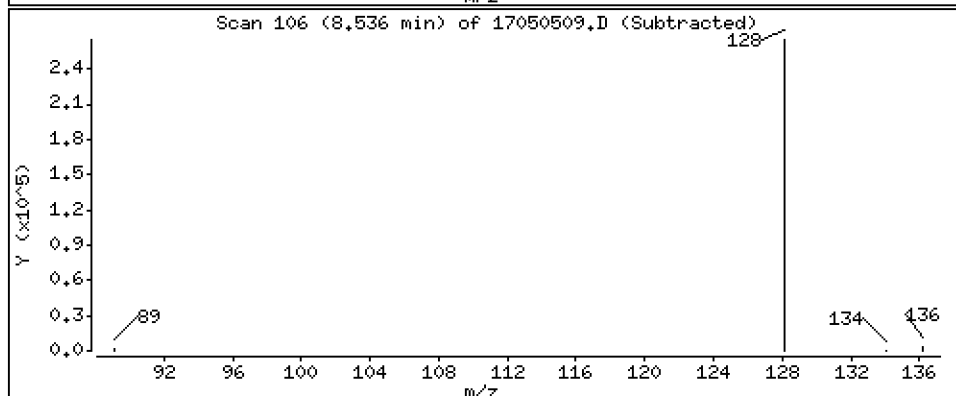
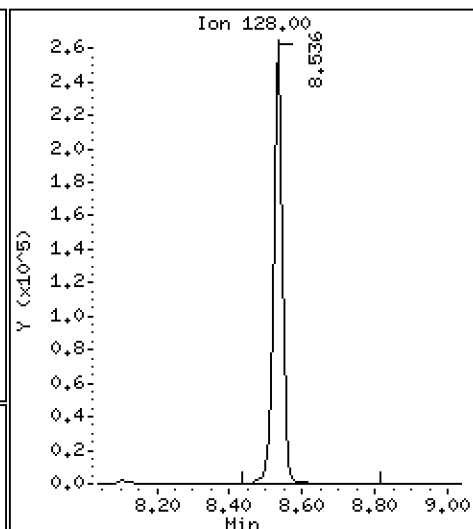
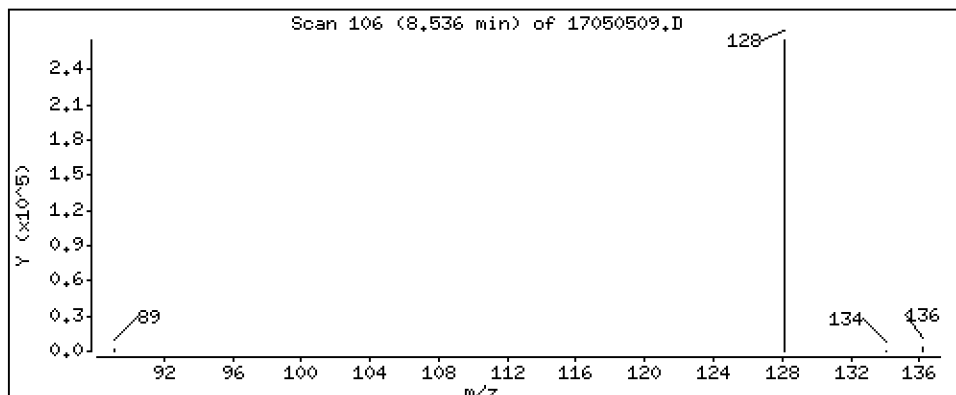
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

2 Naphthalene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

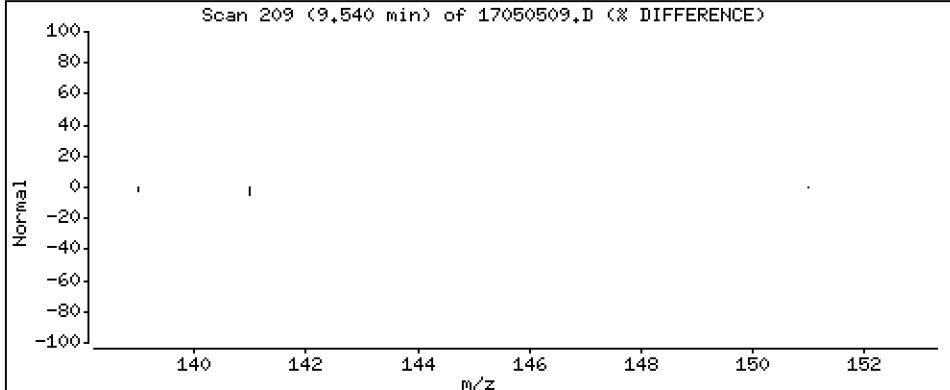
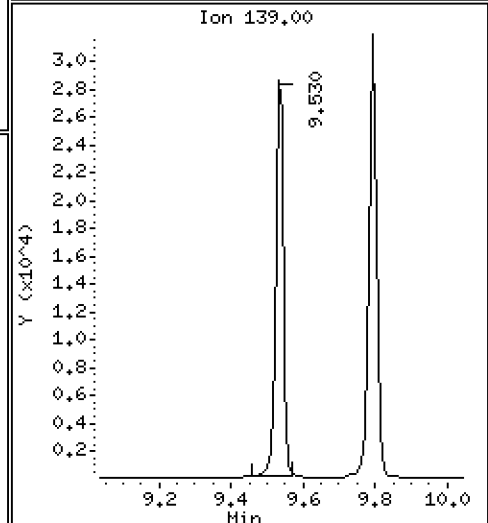
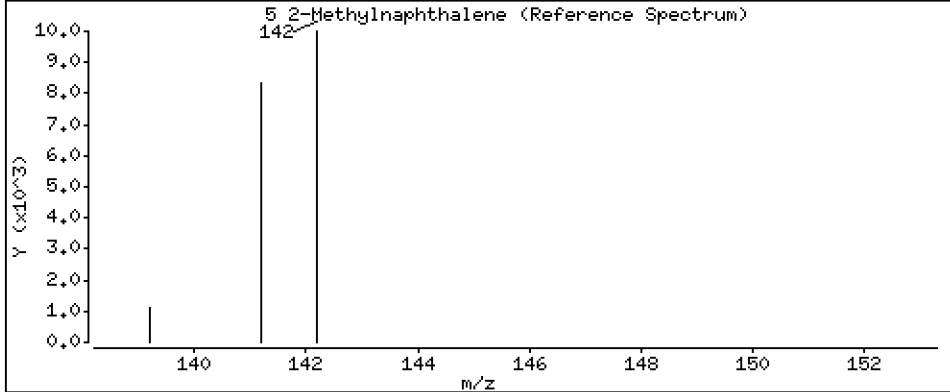
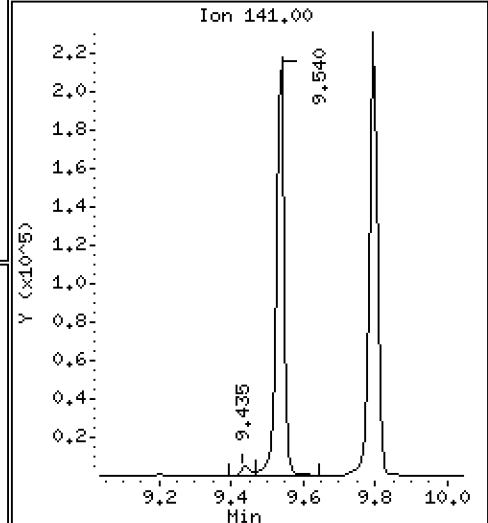
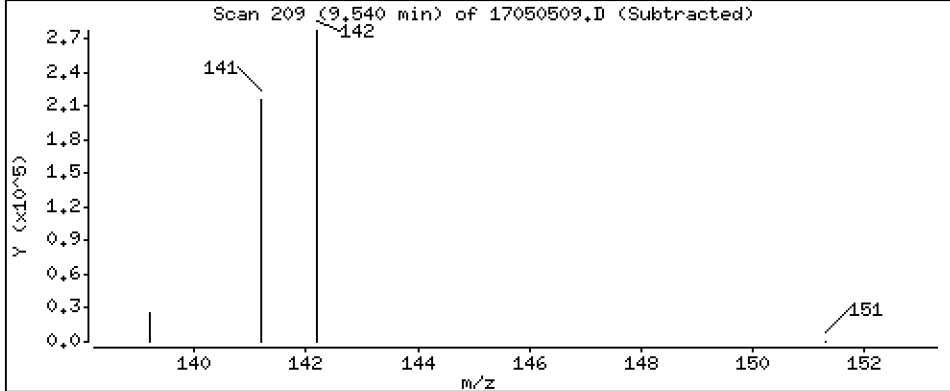
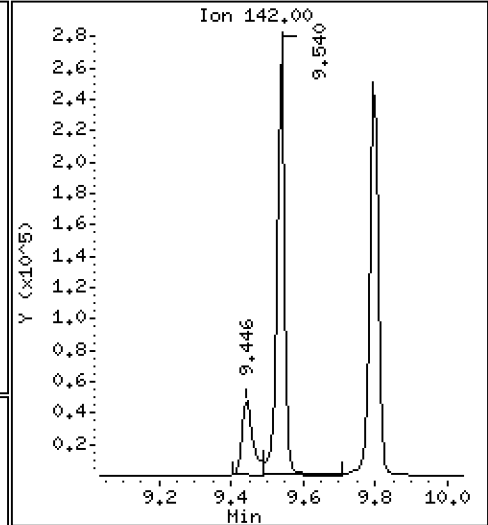
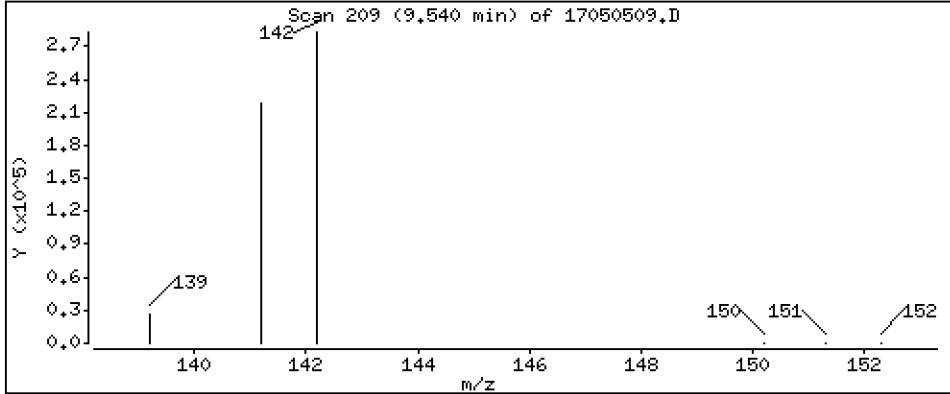
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

5 2-Methylnaphthalene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

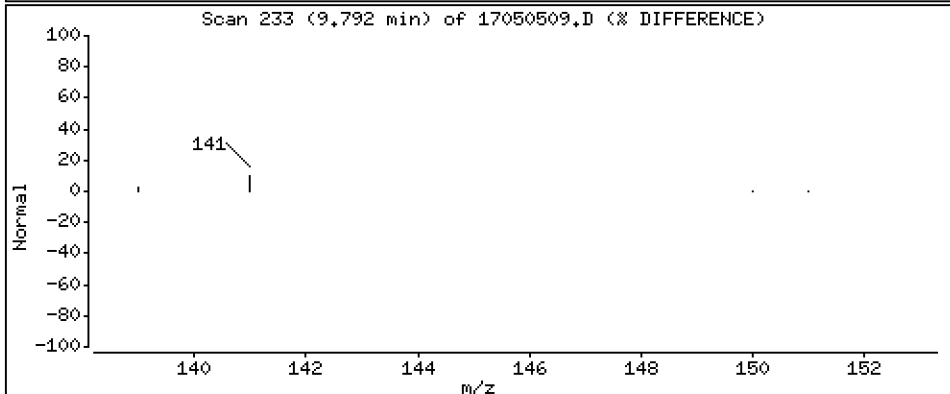
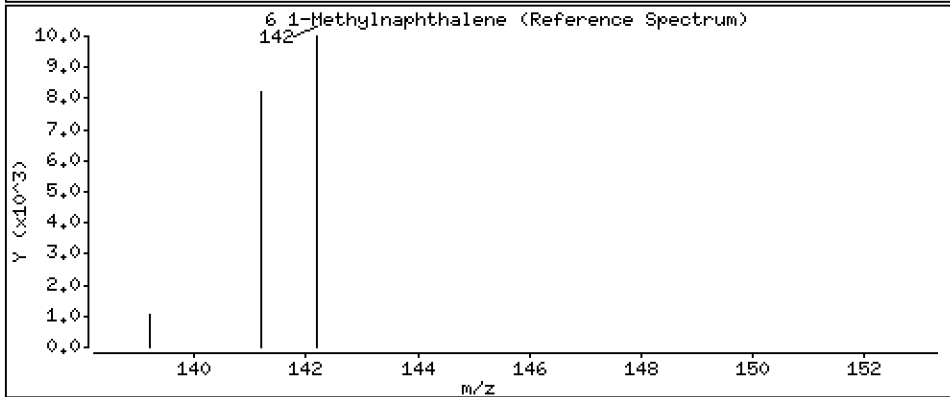
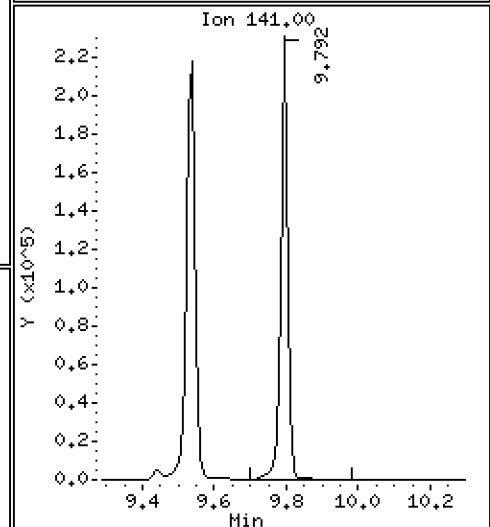
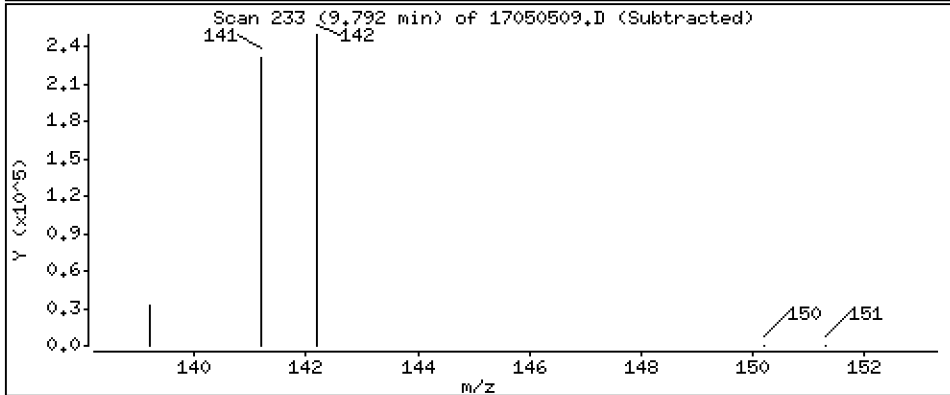
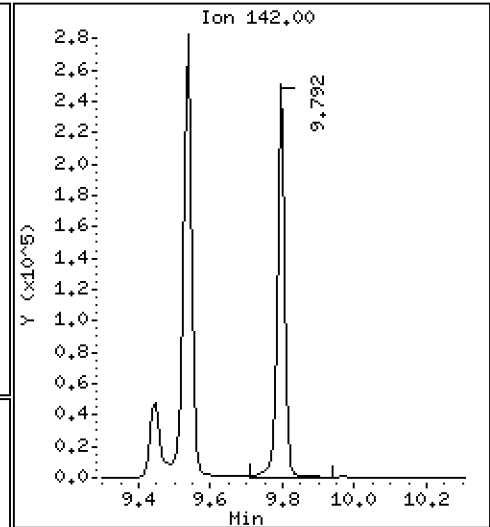
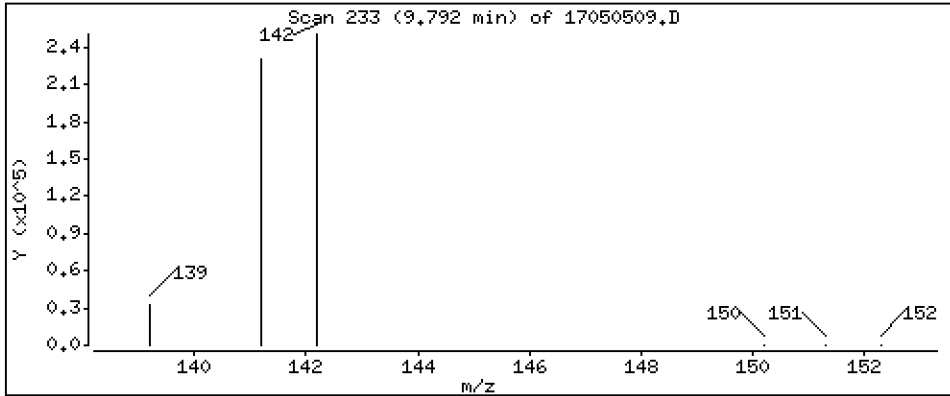
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

6 1-Methylnaphthalene

Concentration: 247 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

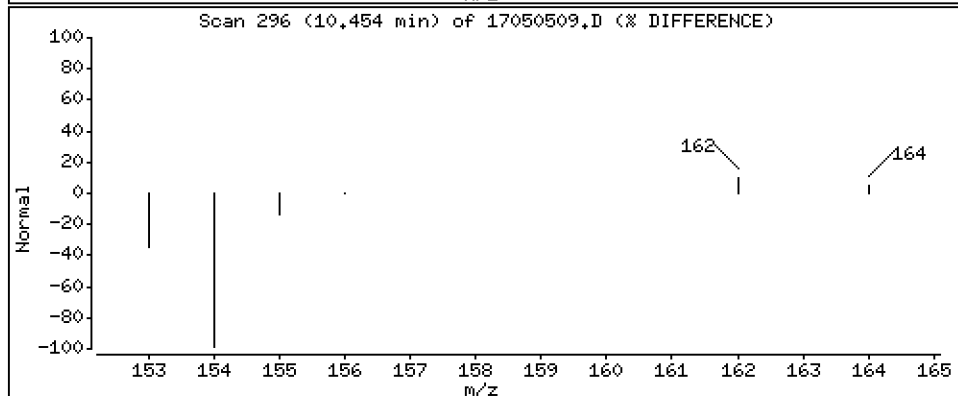
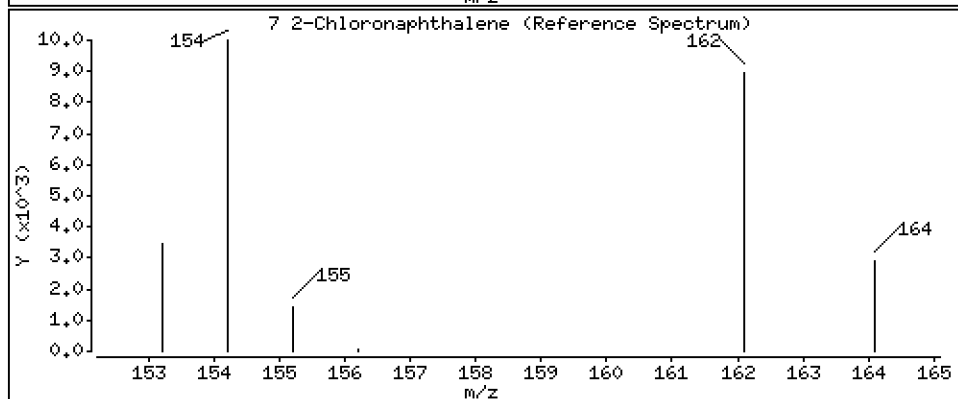
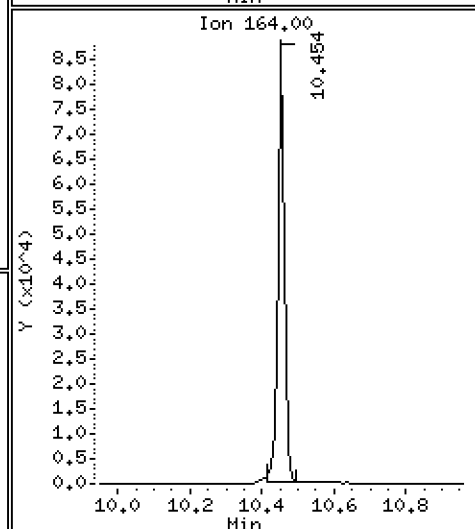
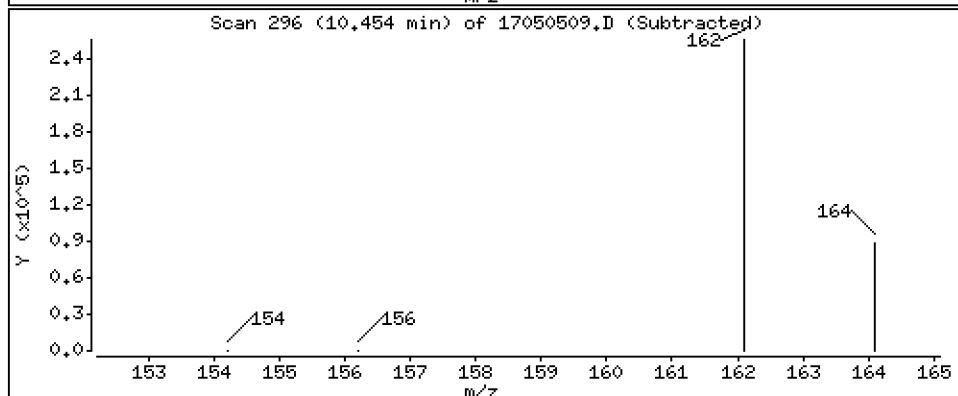
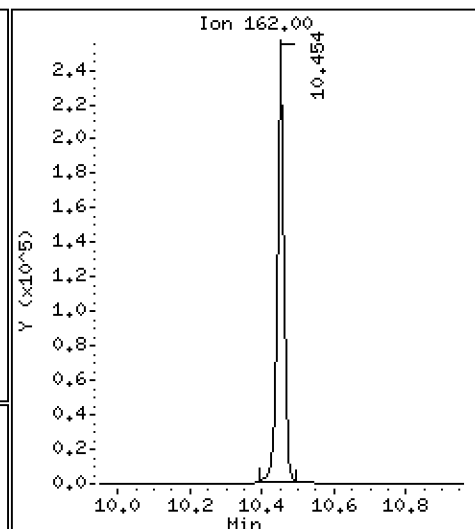
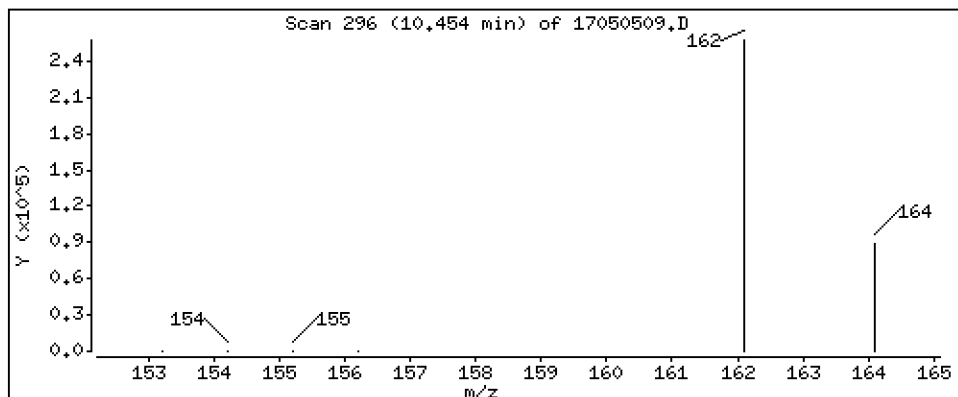
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 2-Chloronaphthalene

Concentration: 246 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

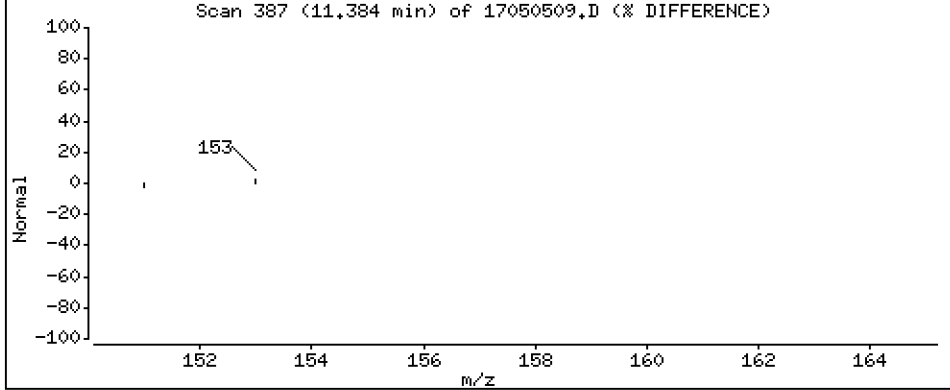
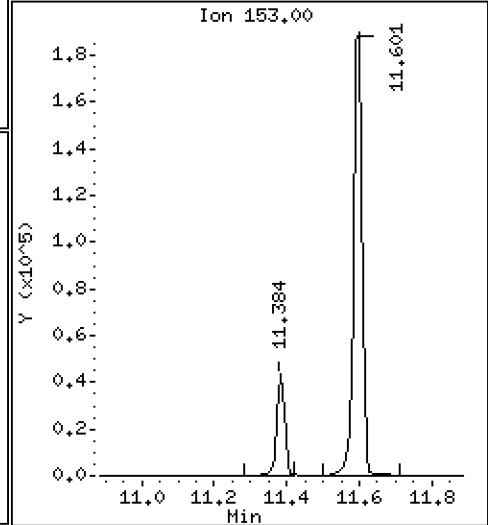
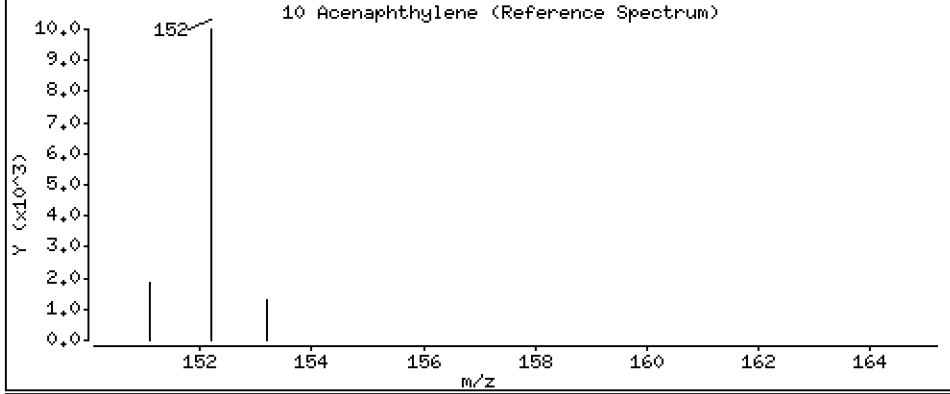
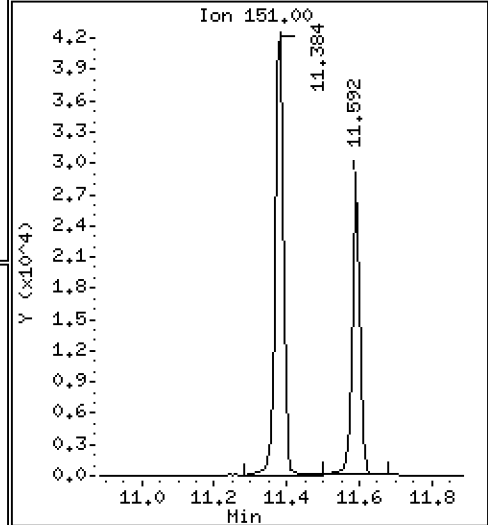
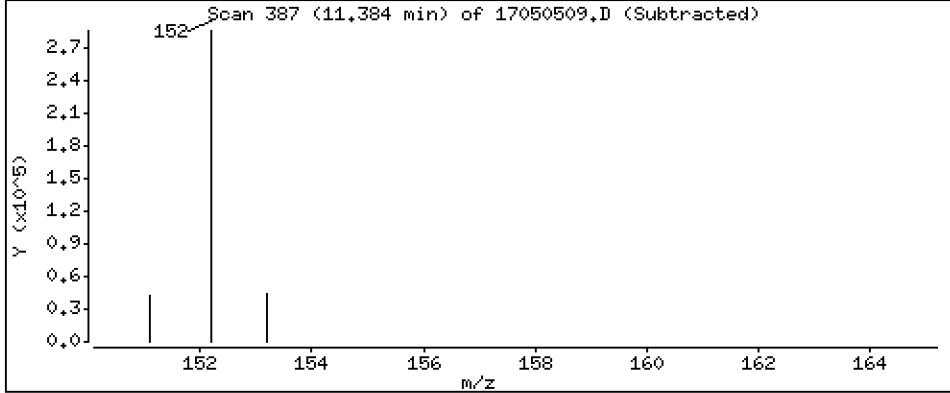
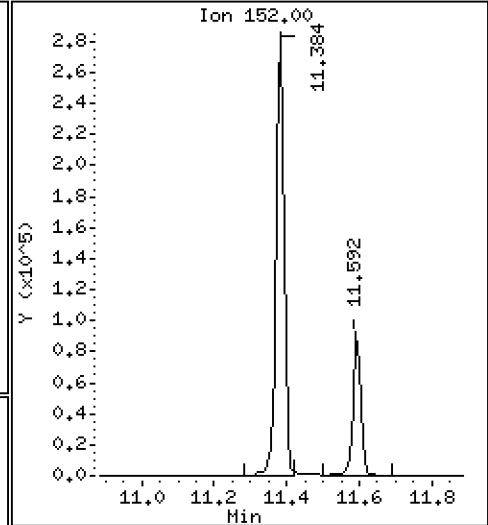
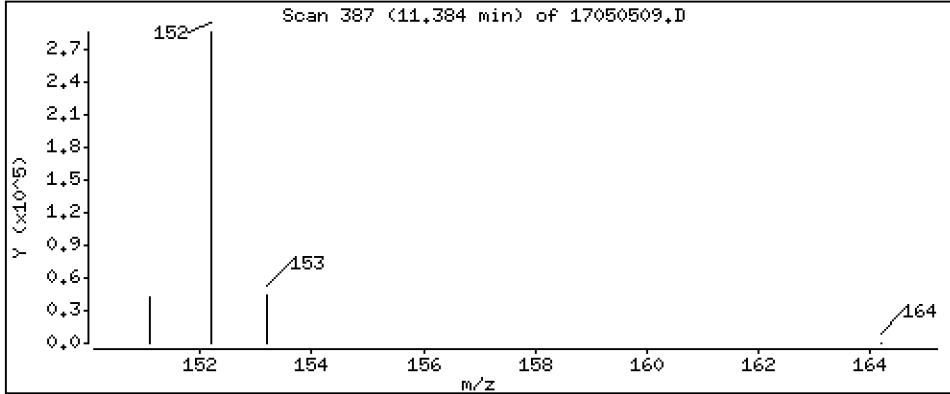
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

Concentration: 247 ng/mL

10 Acenaphthylene



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

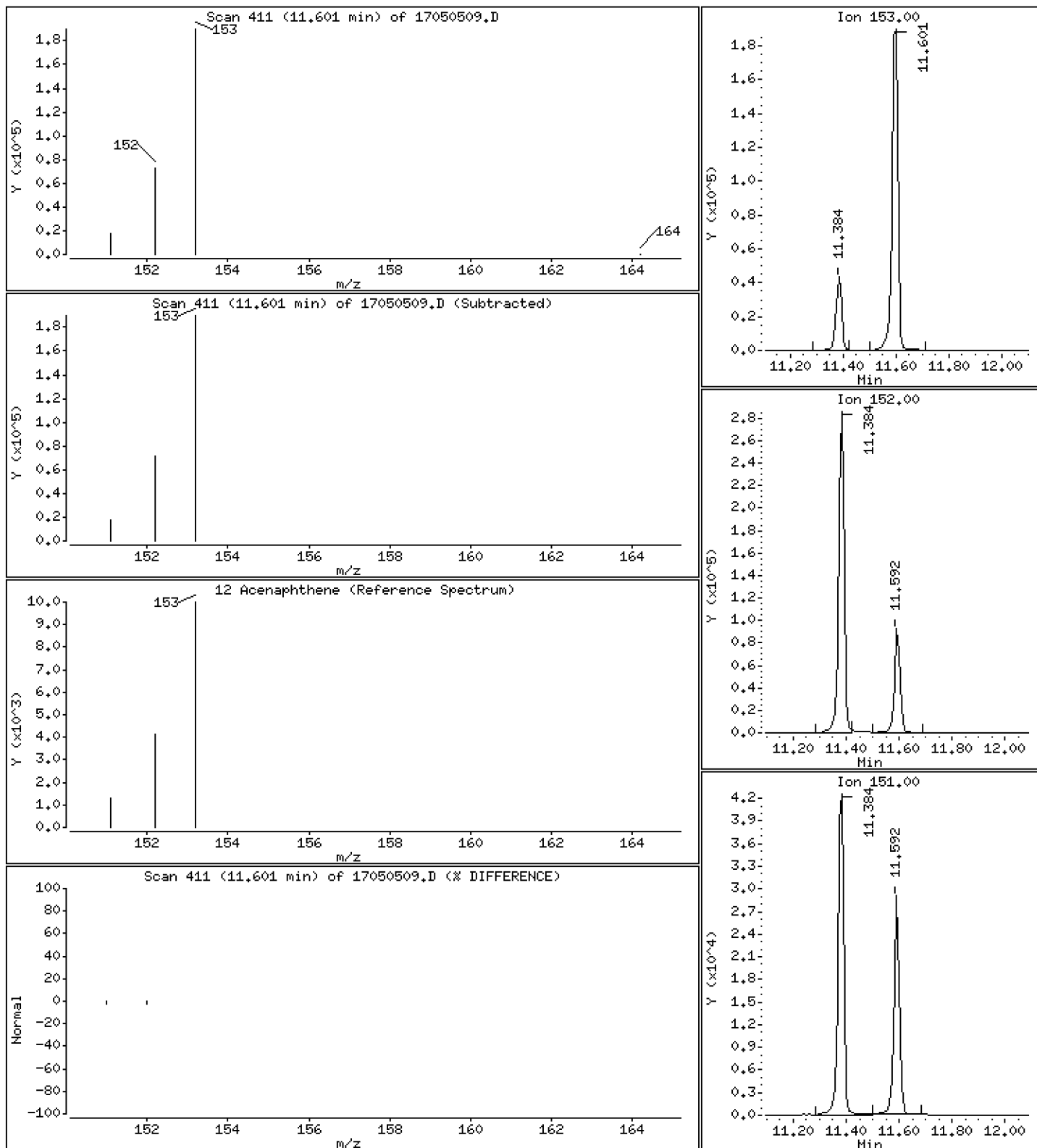
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

12 Acenaphthene

Concentration: 277 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

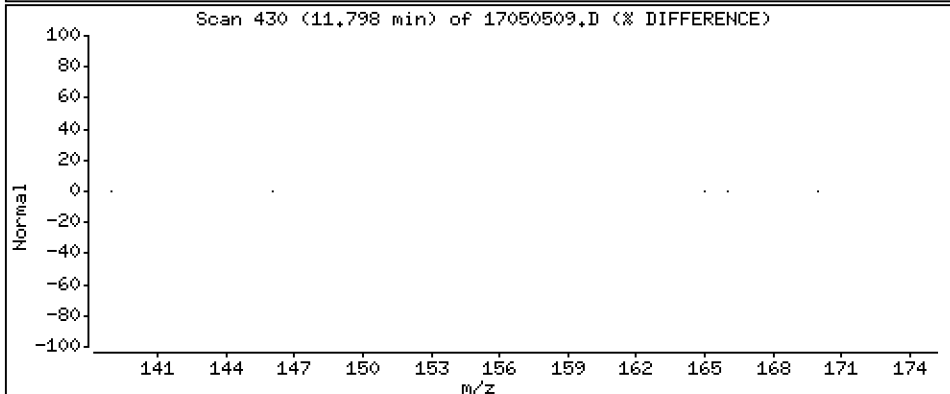
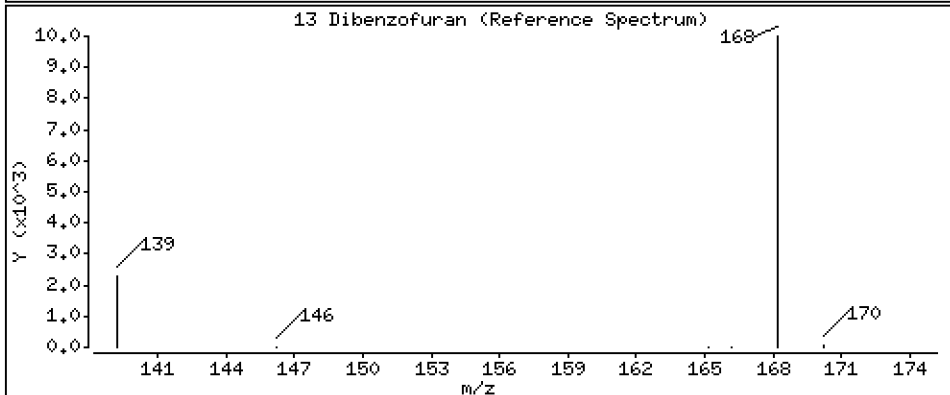
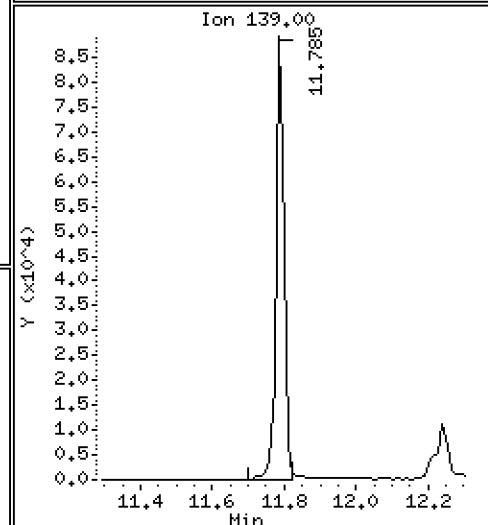
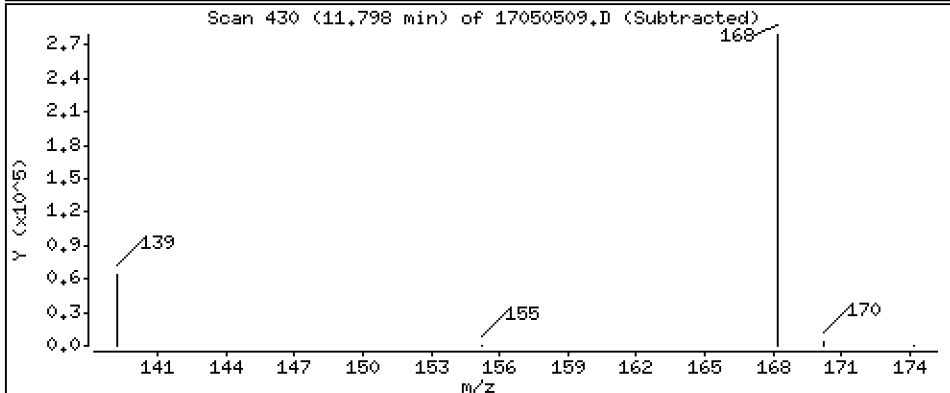
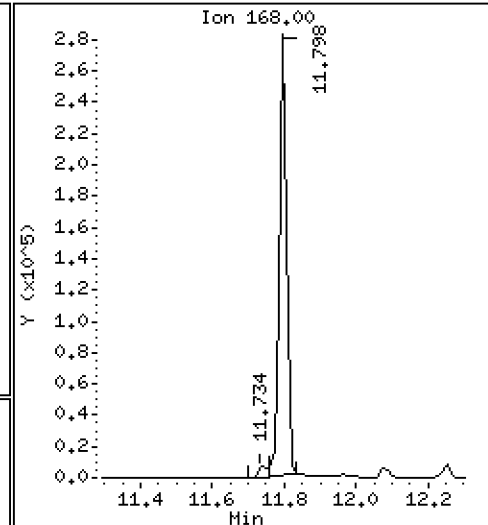
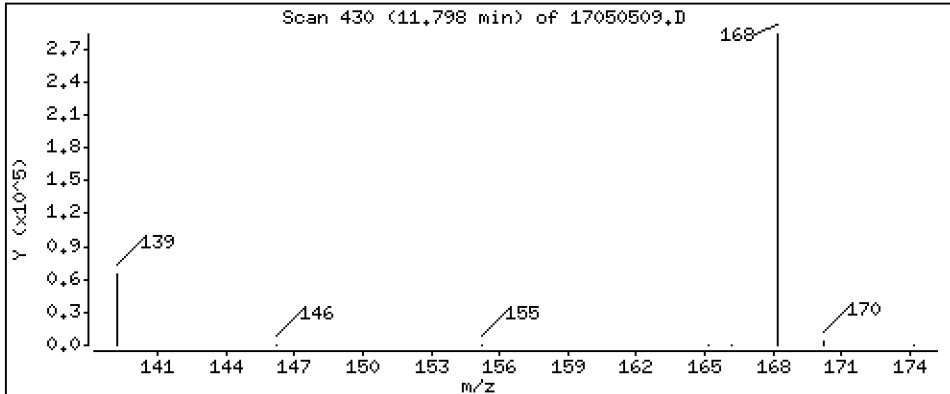
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

13 Dibenzofuran

Concentration: 253 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

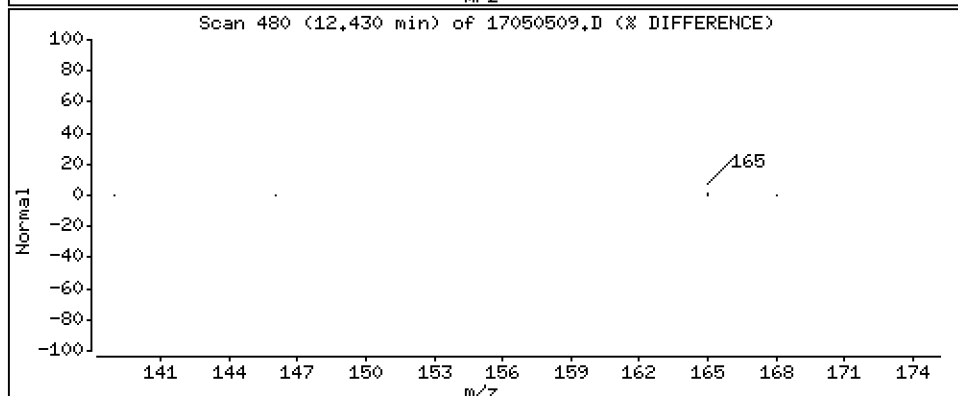
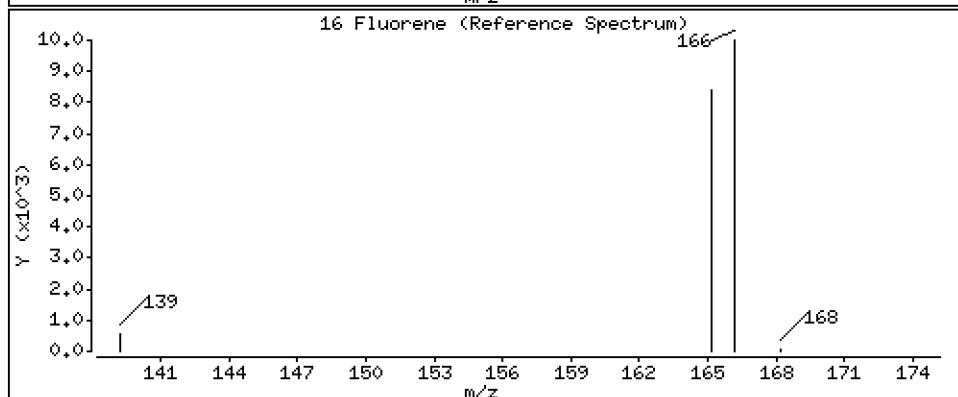
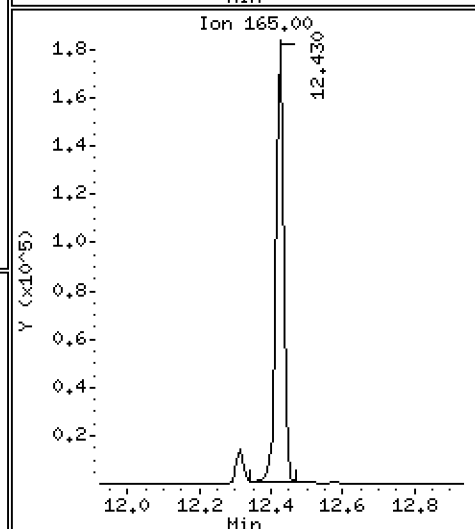
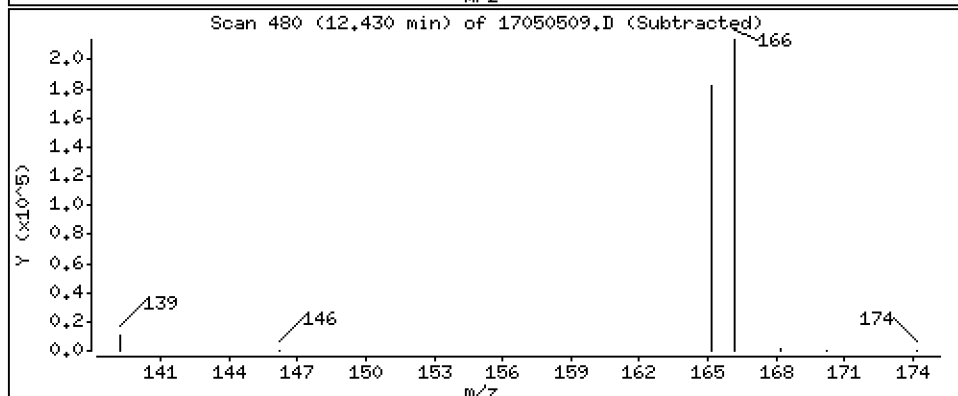
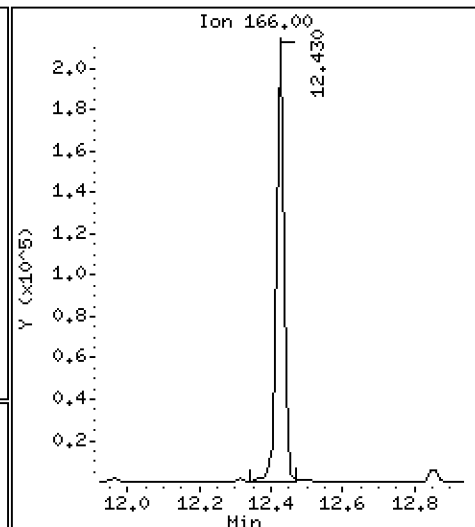
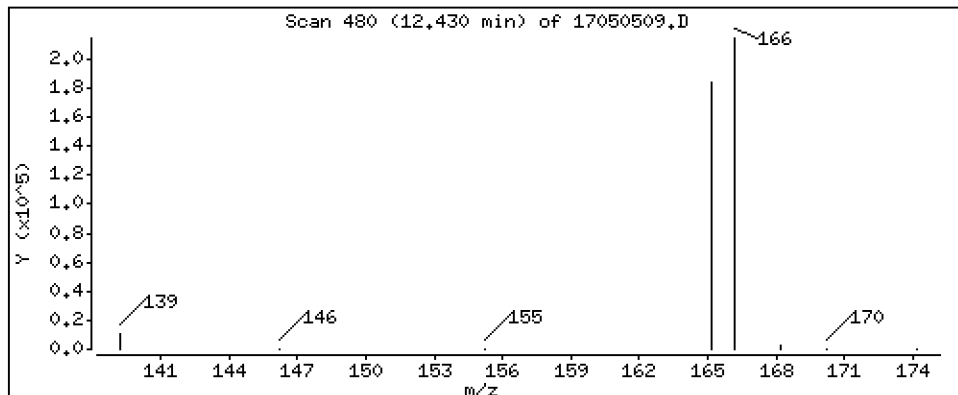
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 Fluorene

Concentration: 257 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

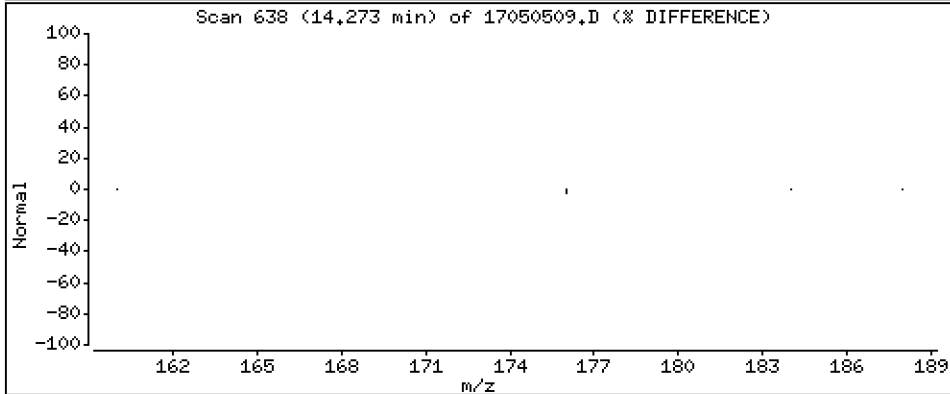
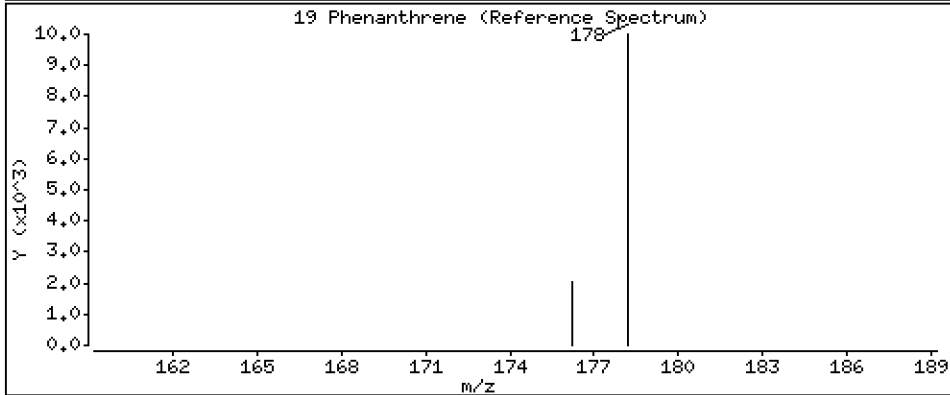
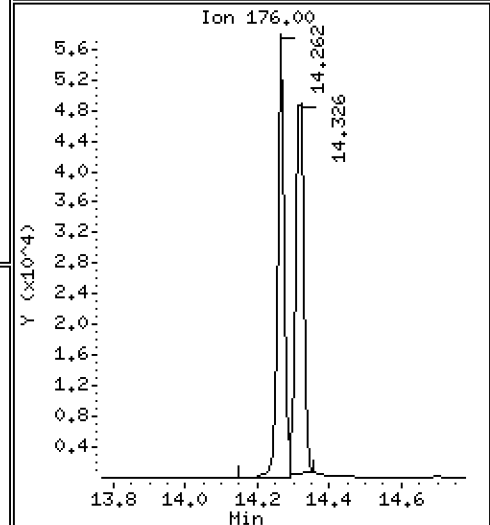
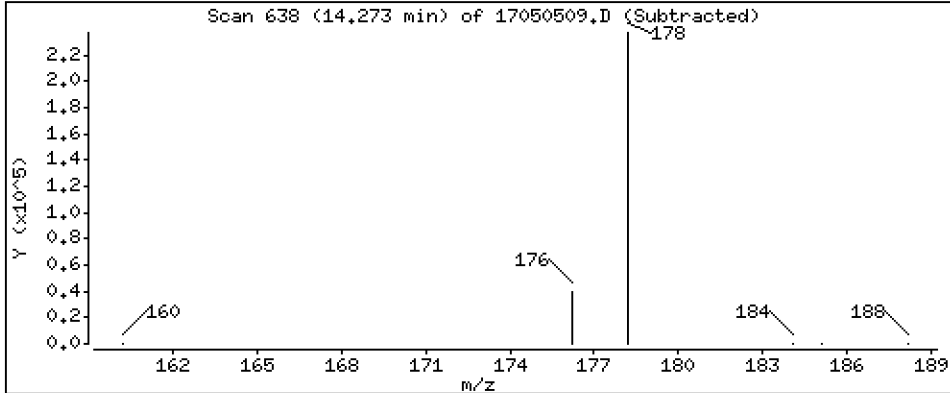
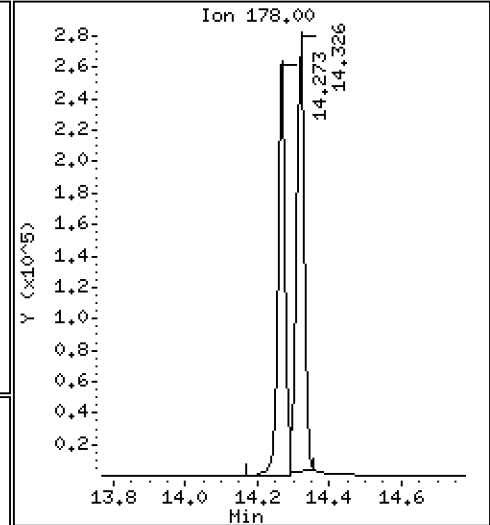
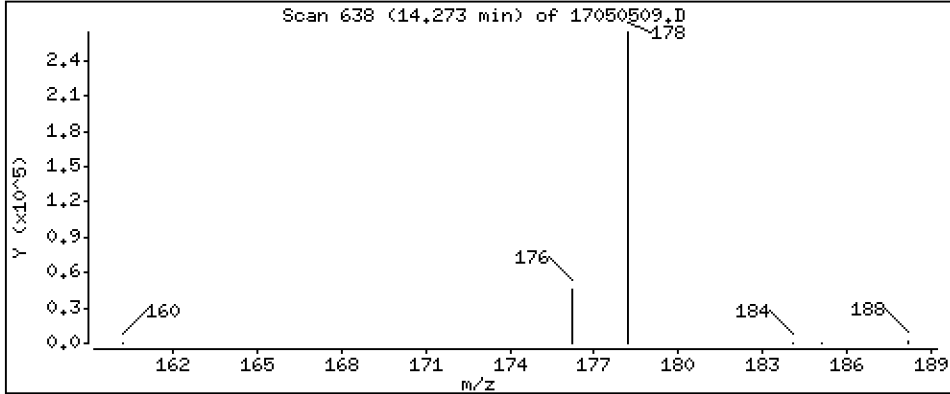
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 Phenanthrene

Concentration: 256 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

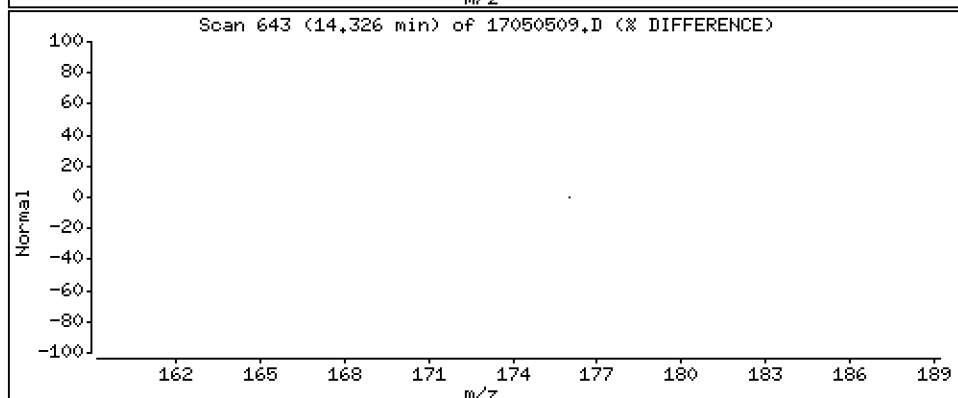
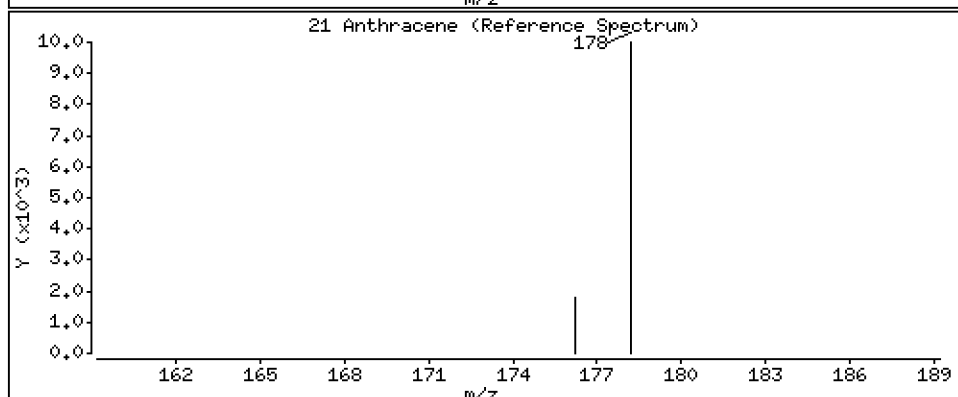
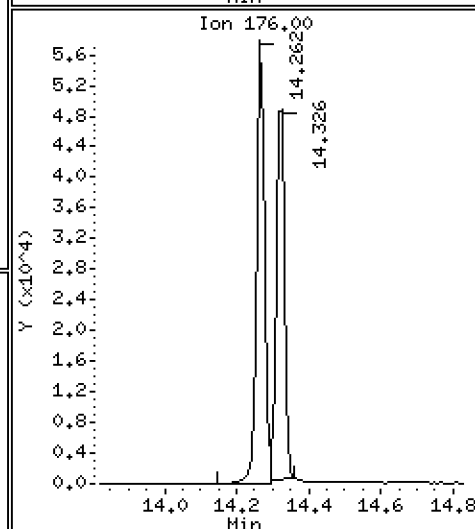
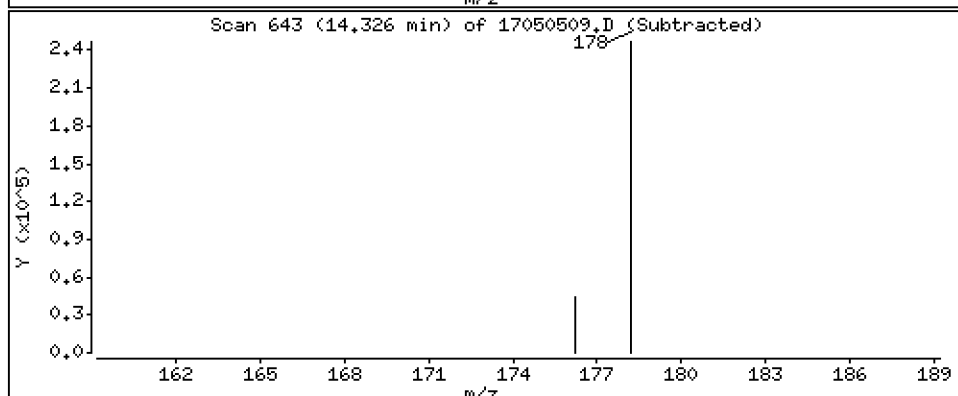
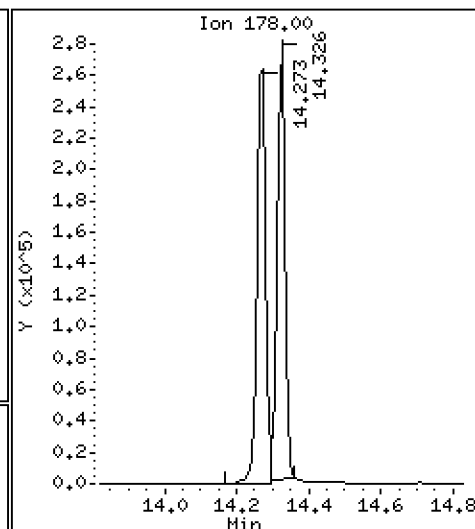
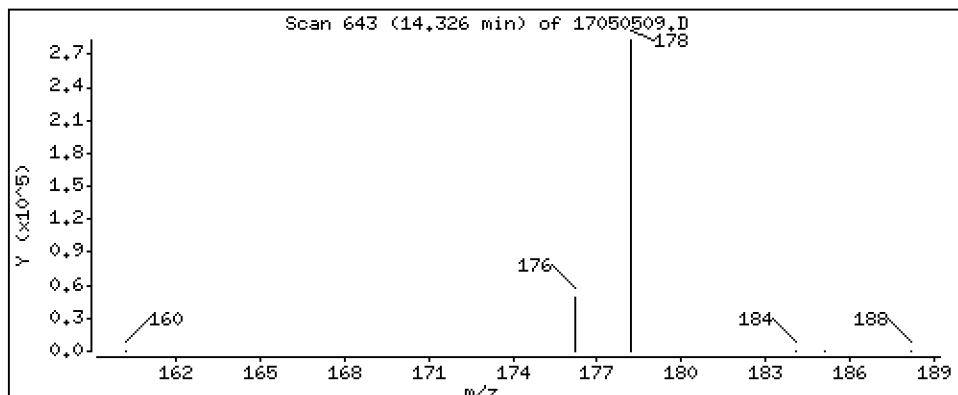
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

21 Anthracene

Concentration: 240 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

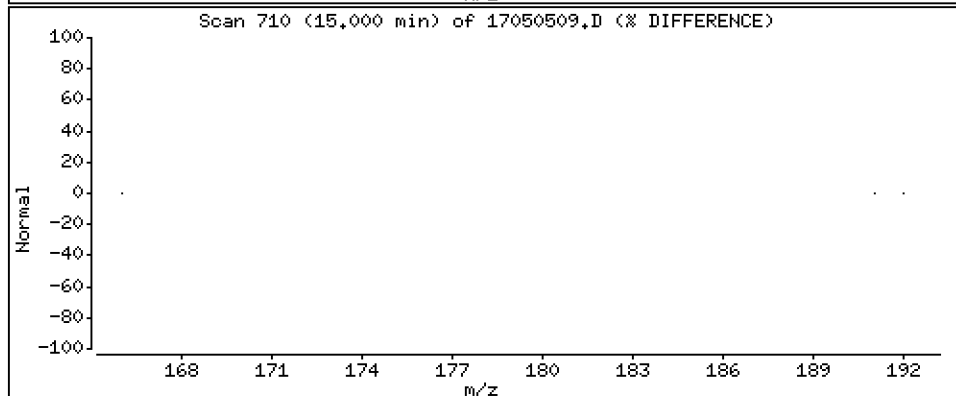
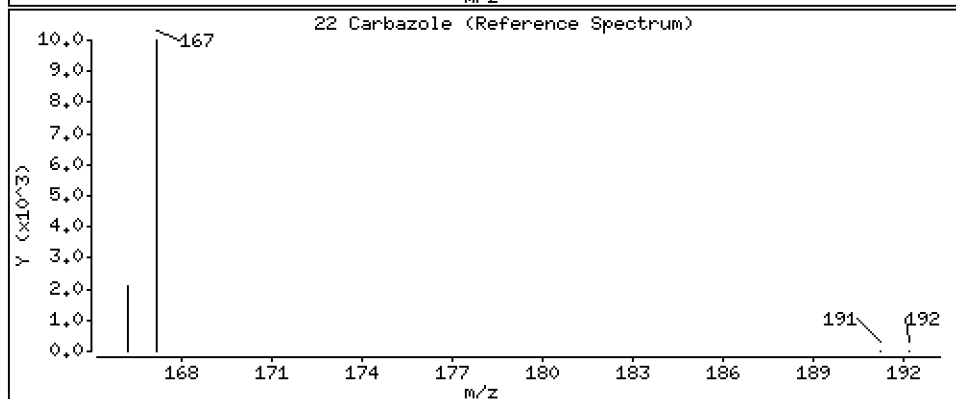
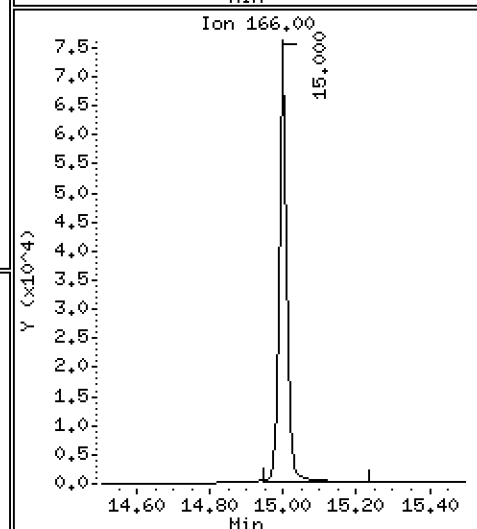
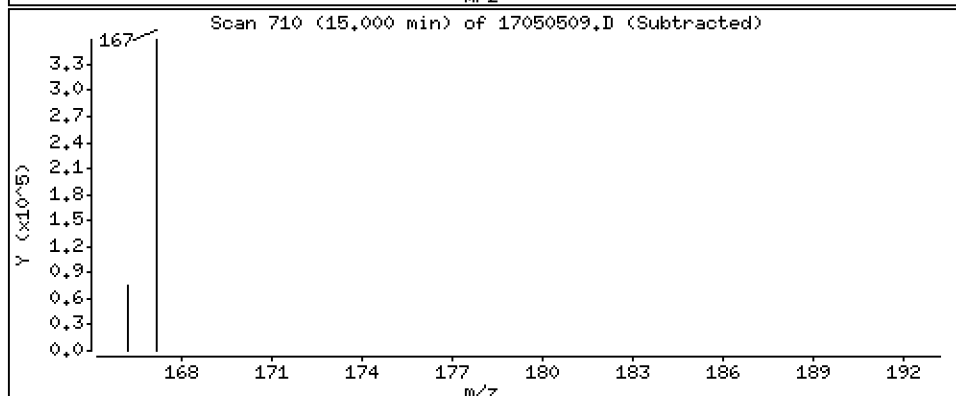
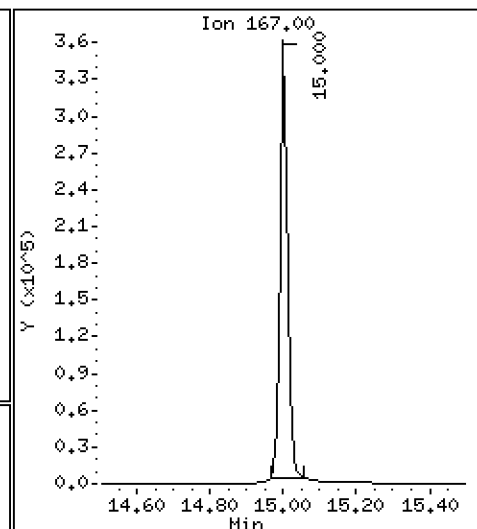
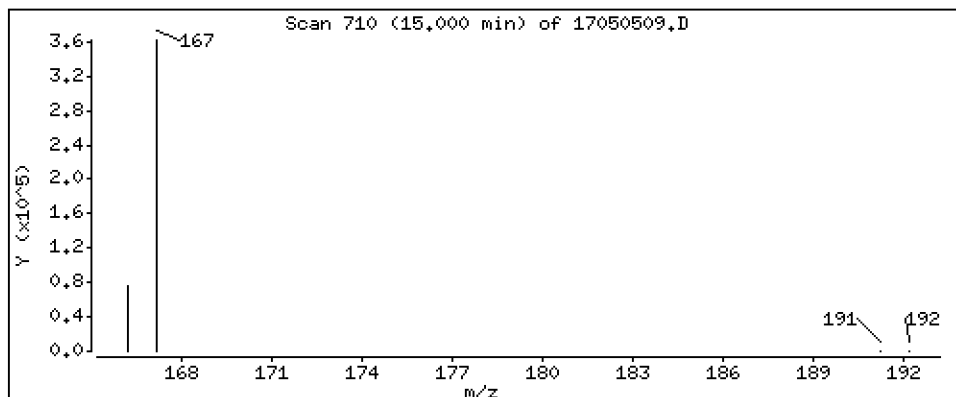
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Carbazole

Concentration: 252 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

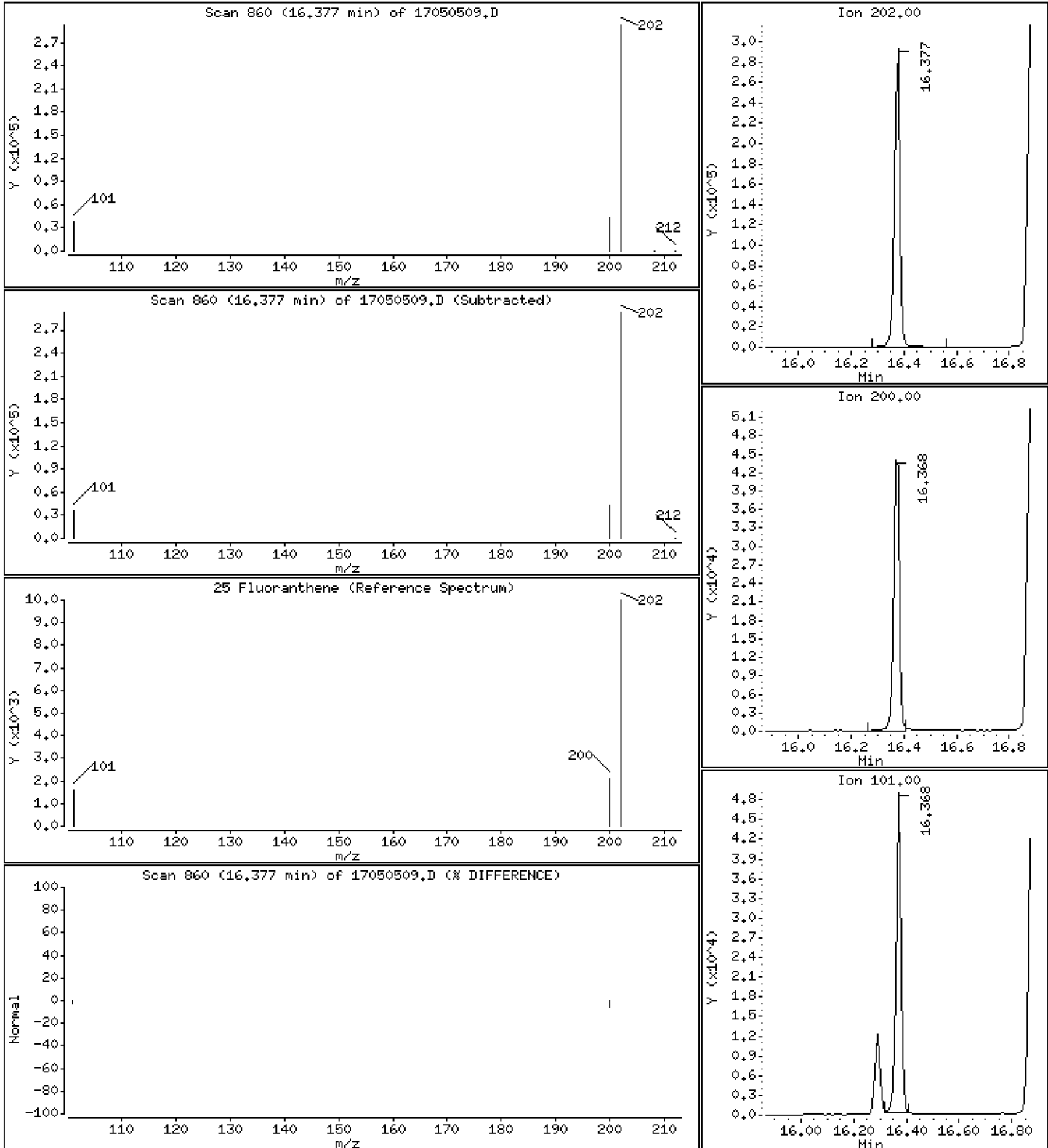
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

25 Fluoranthene

Concentration: 262 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

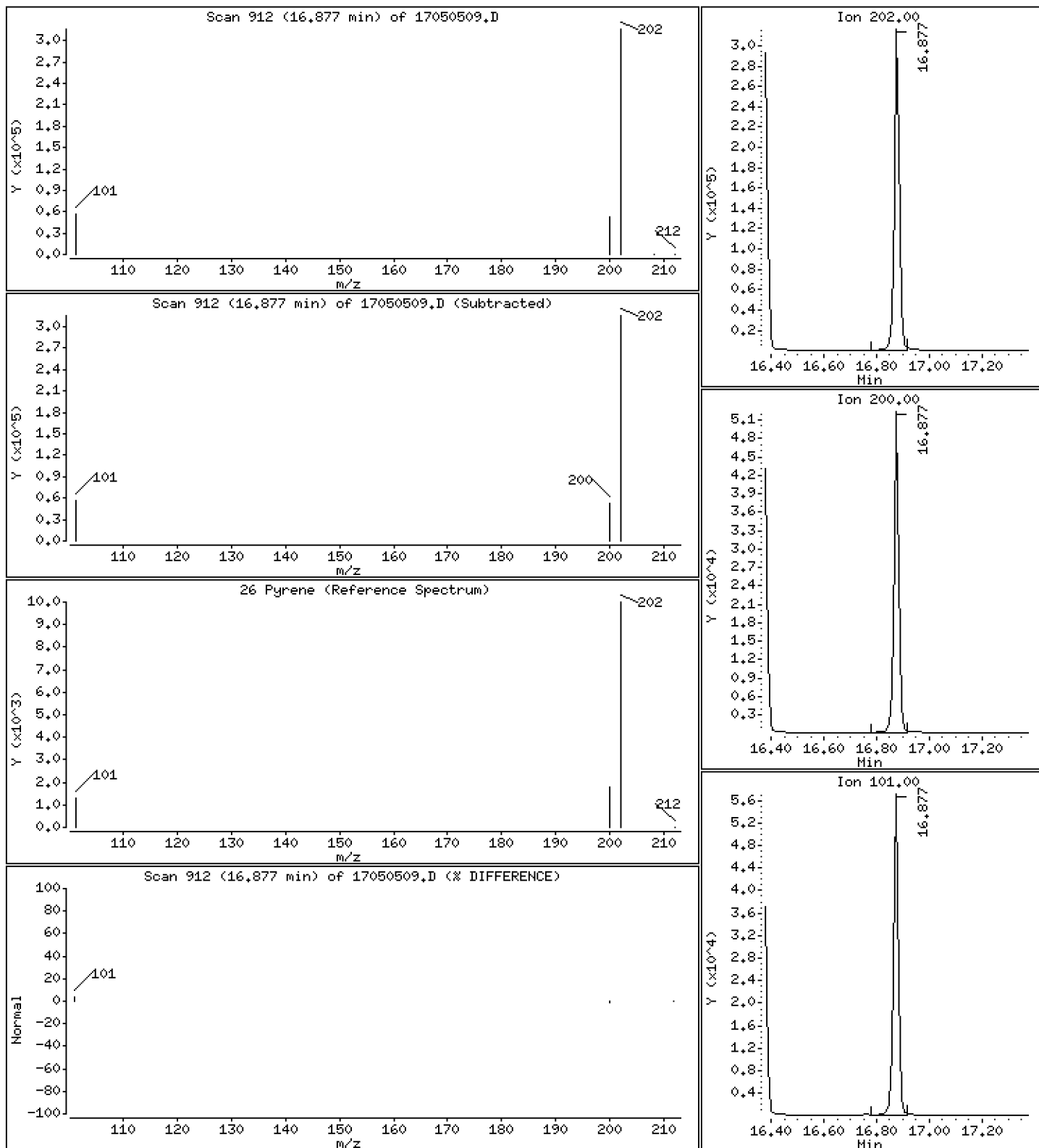
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Pyrene

Concentration: 255 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

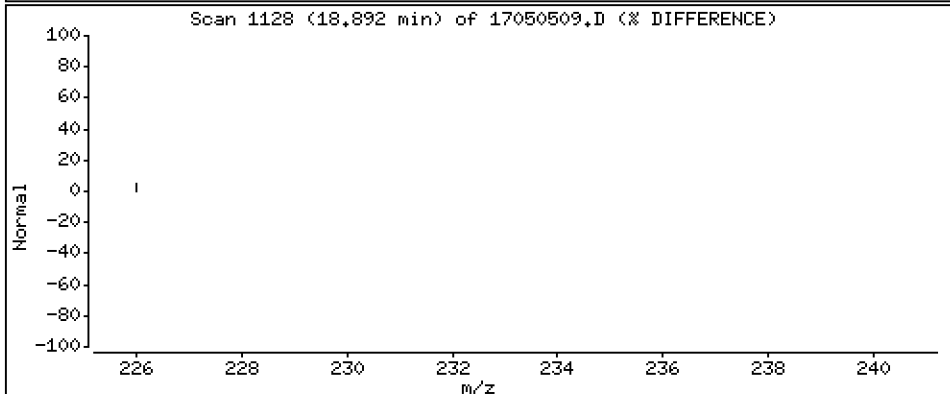
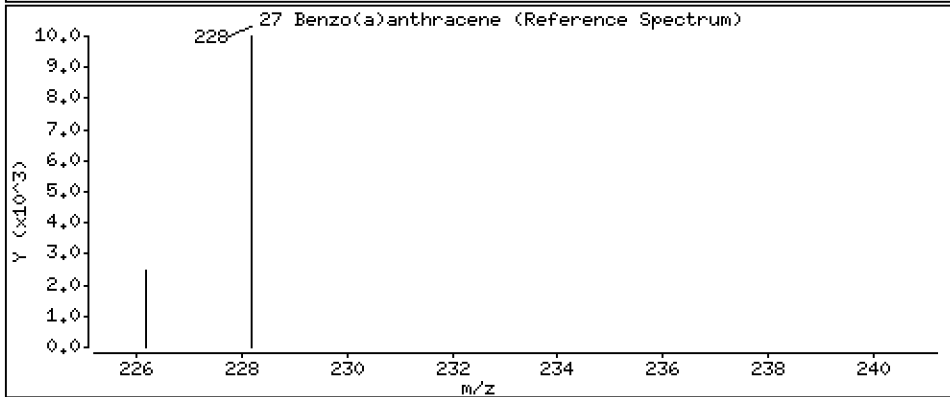
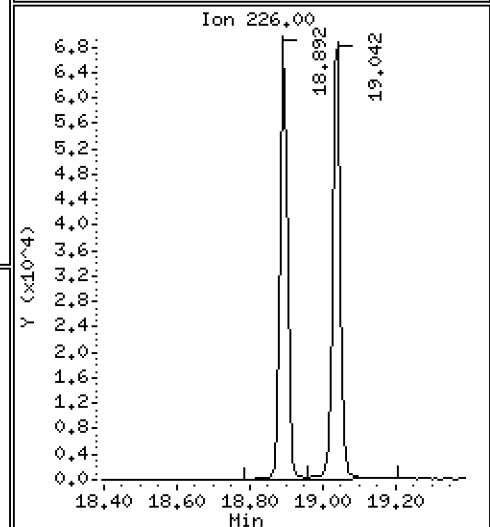
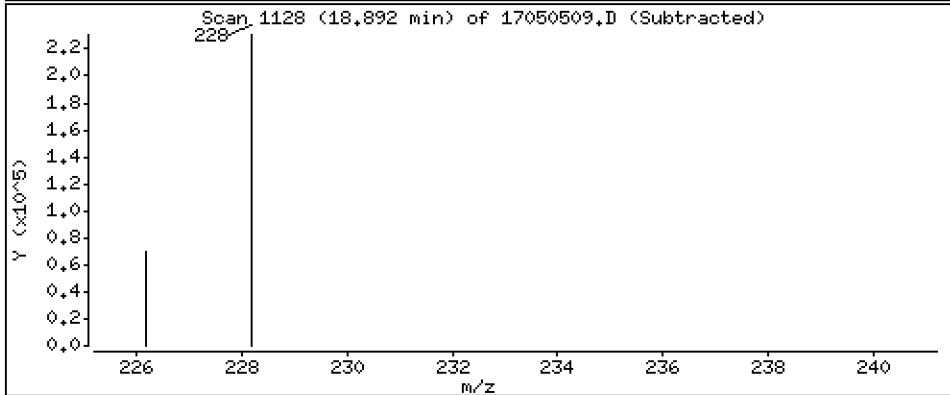
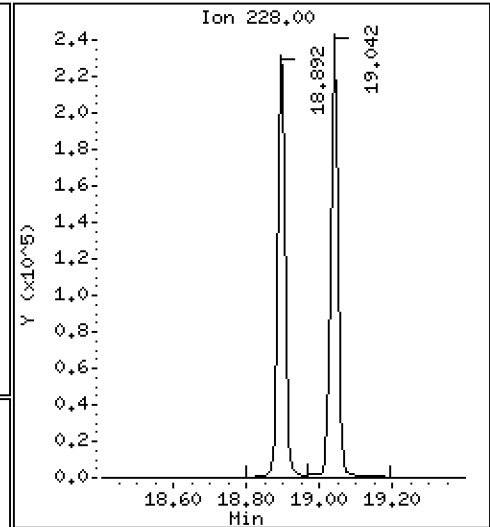
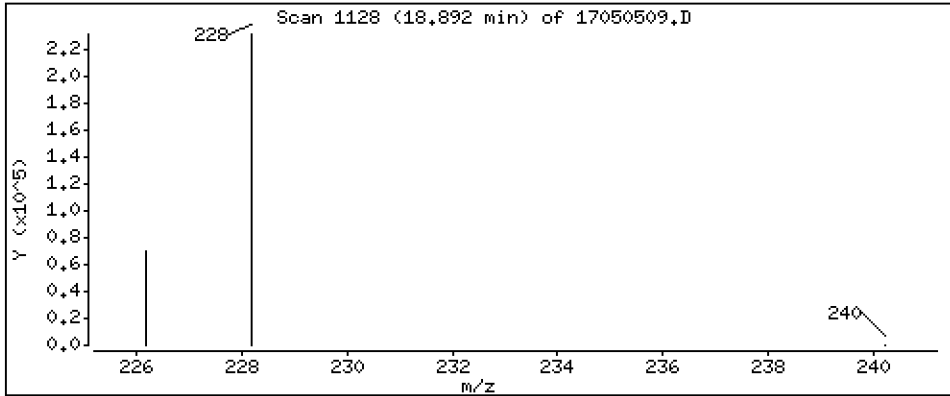
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

27 Benzo(a)anthracene

Concentration: 261 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

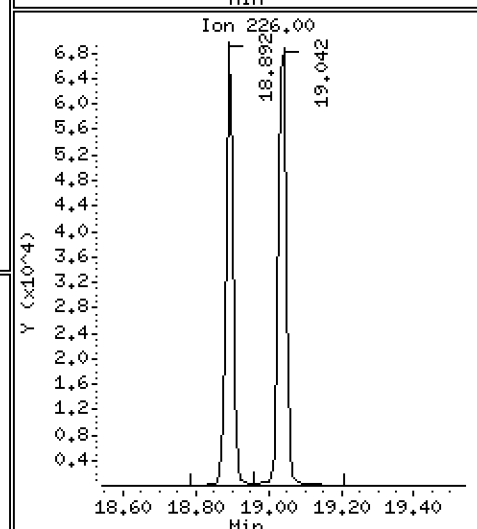
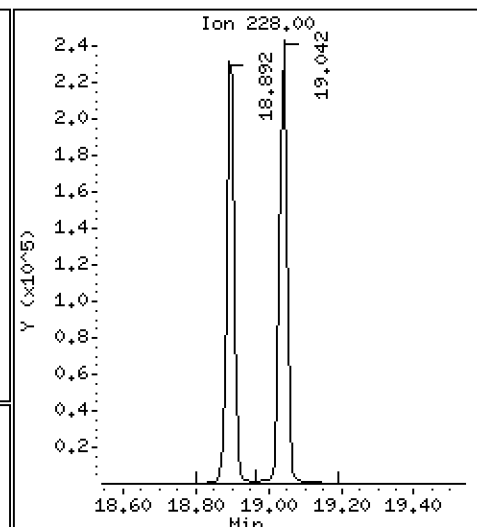
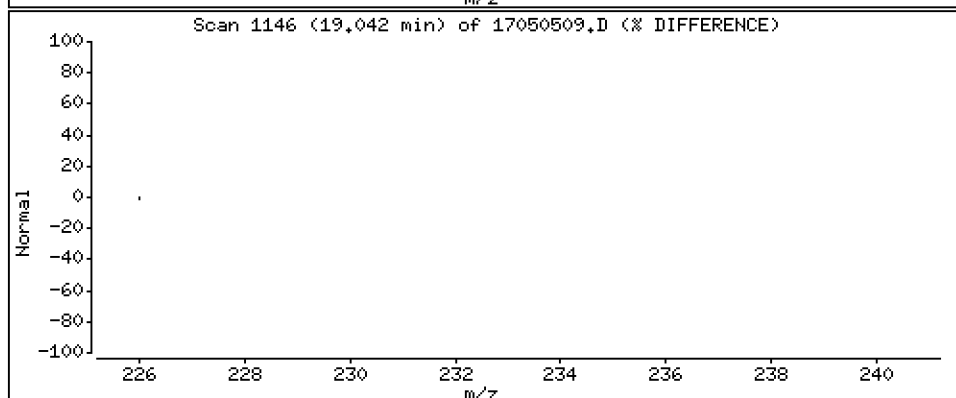
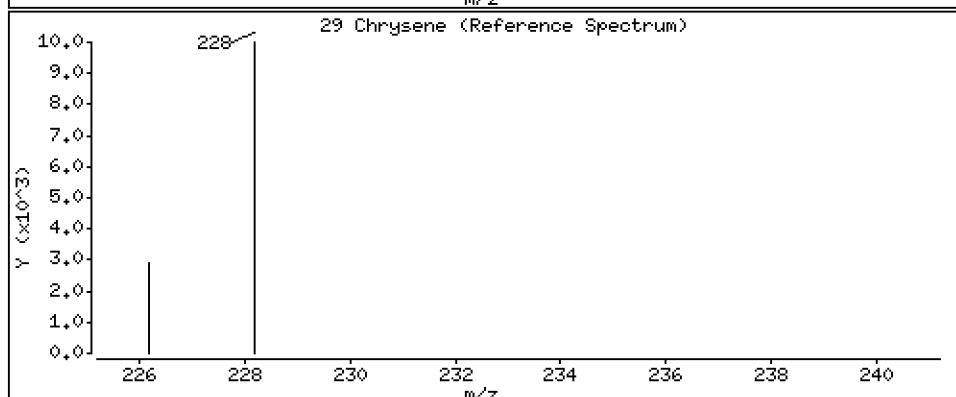
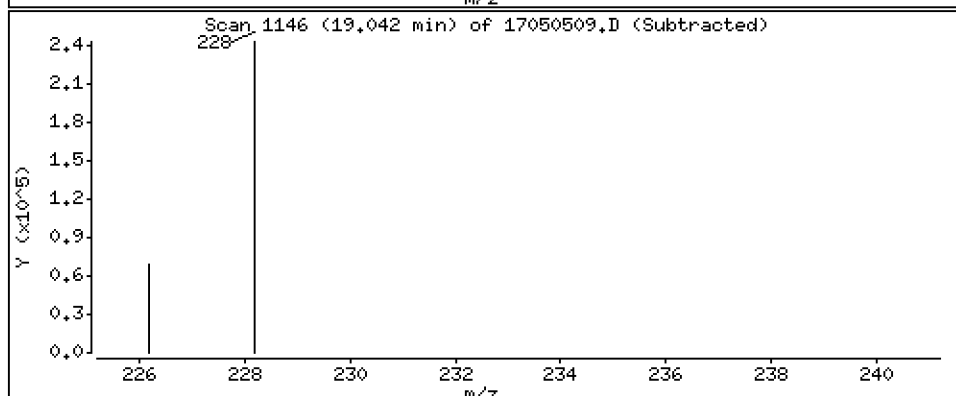
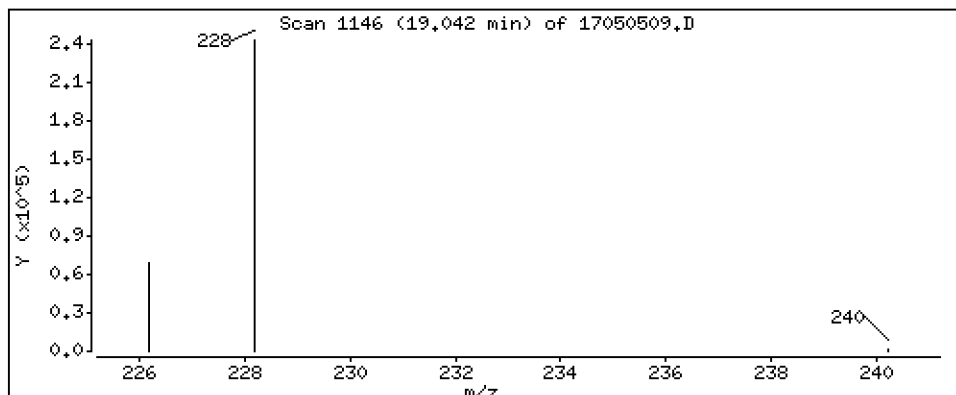
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

29 Chrysene

Concentration: 250 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

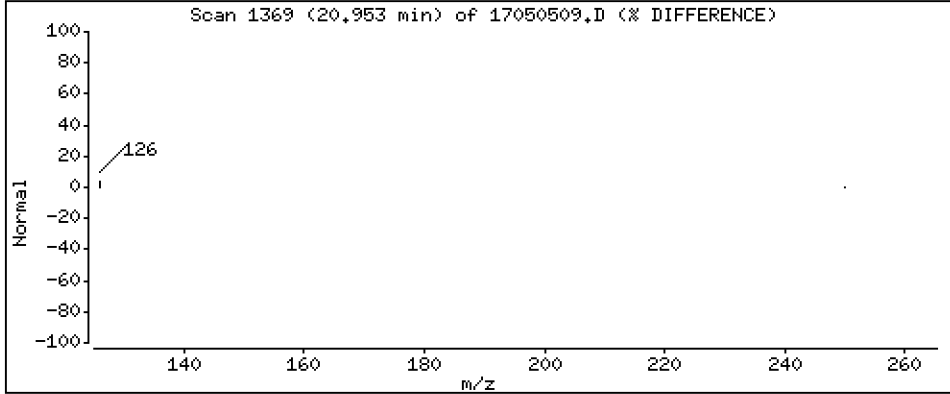
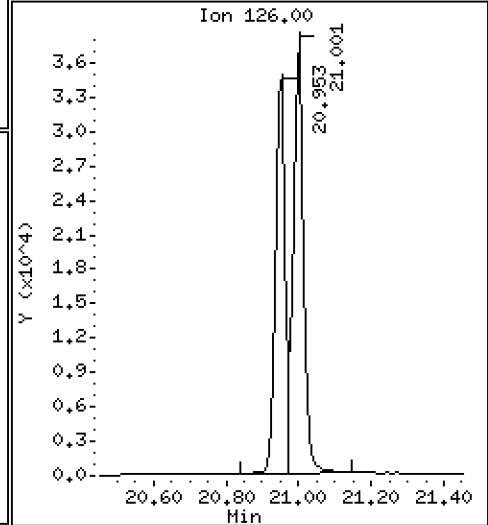
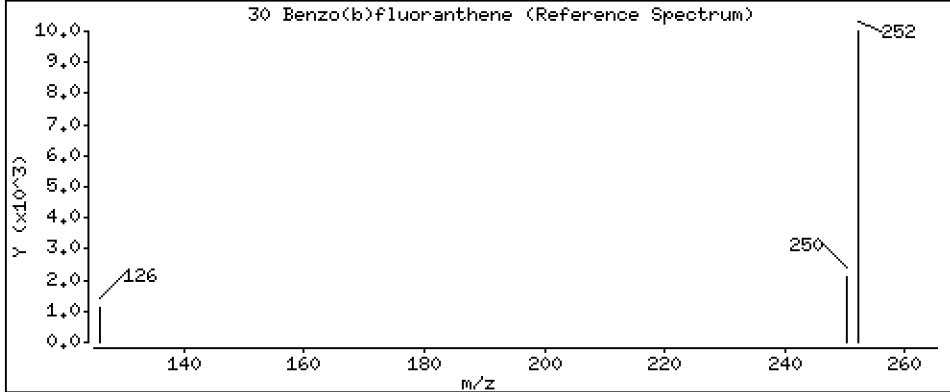
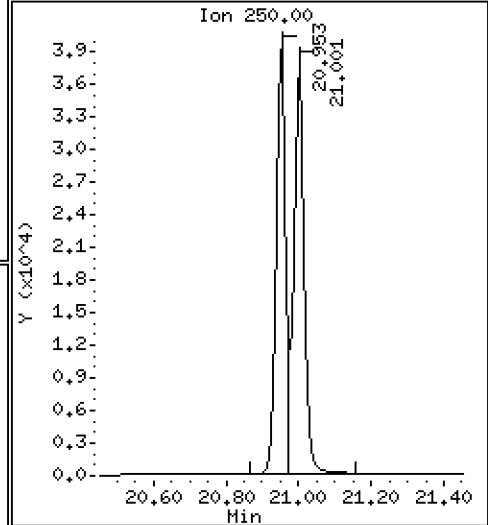
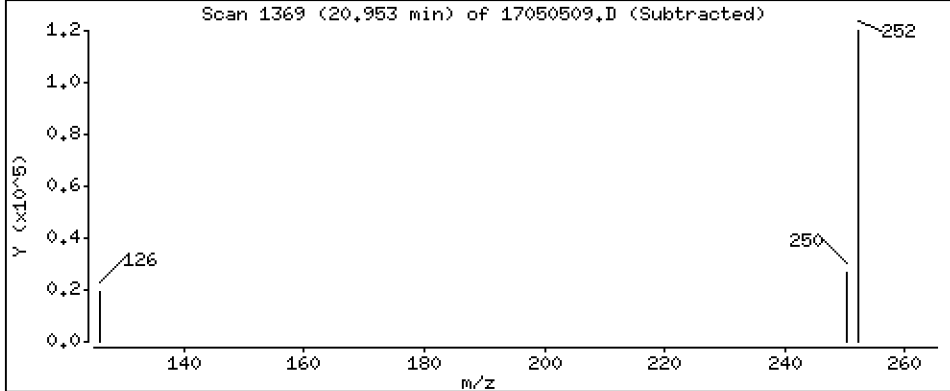
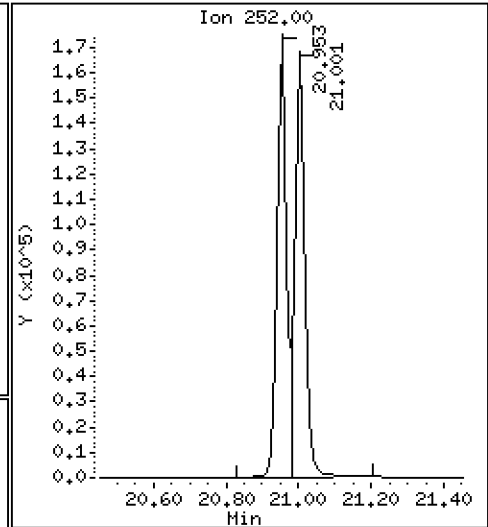
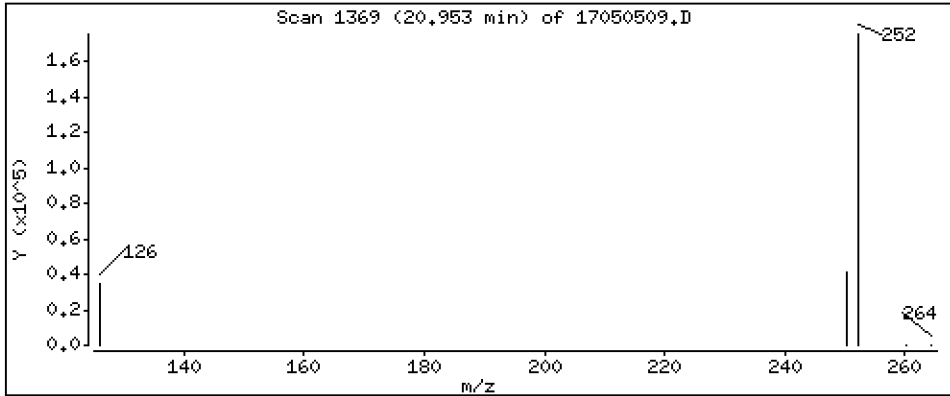
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Benzo(b)fluoranthene

Concentration: 268 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

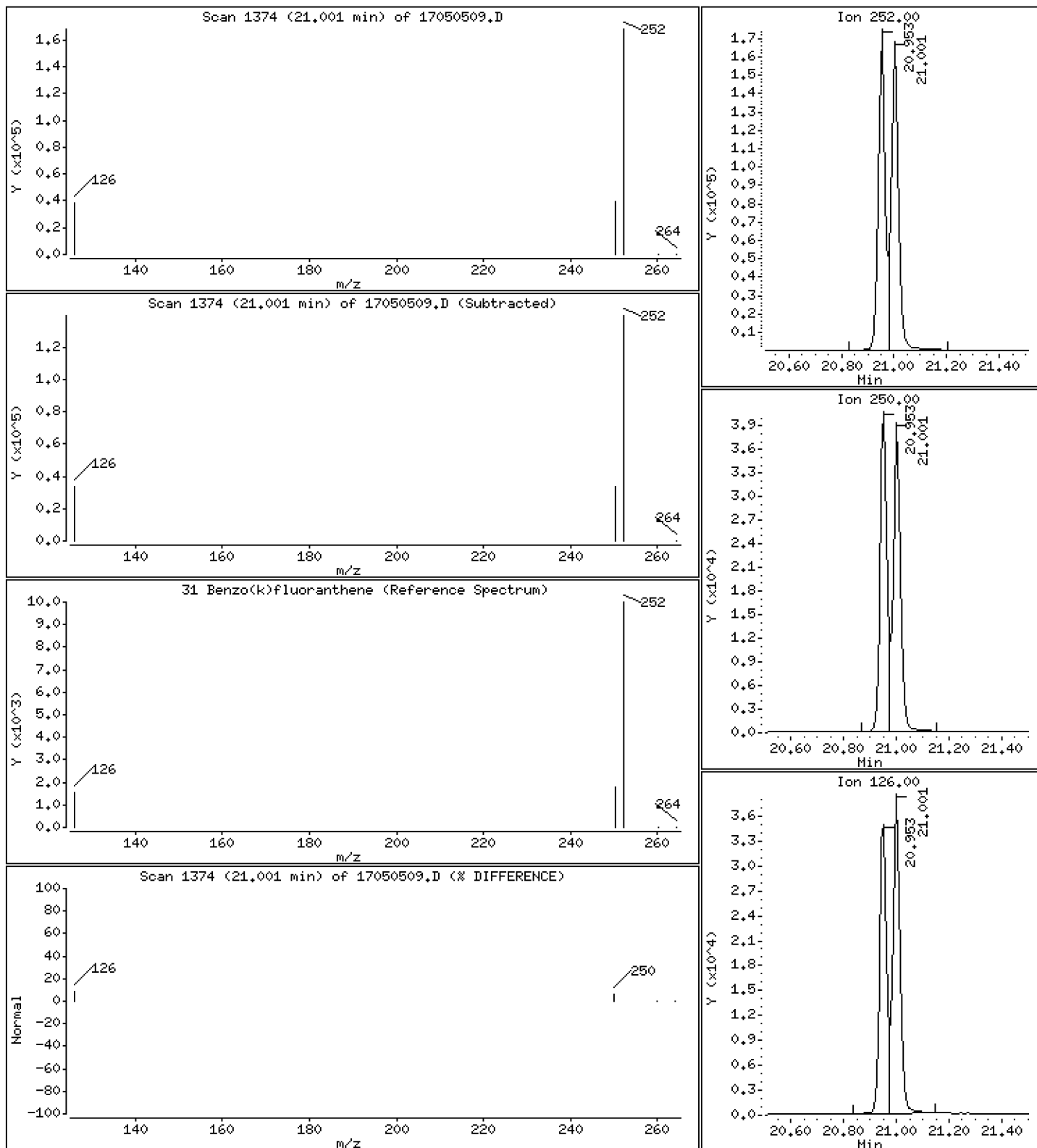
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

31 Benzo(k)fluoranthene

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

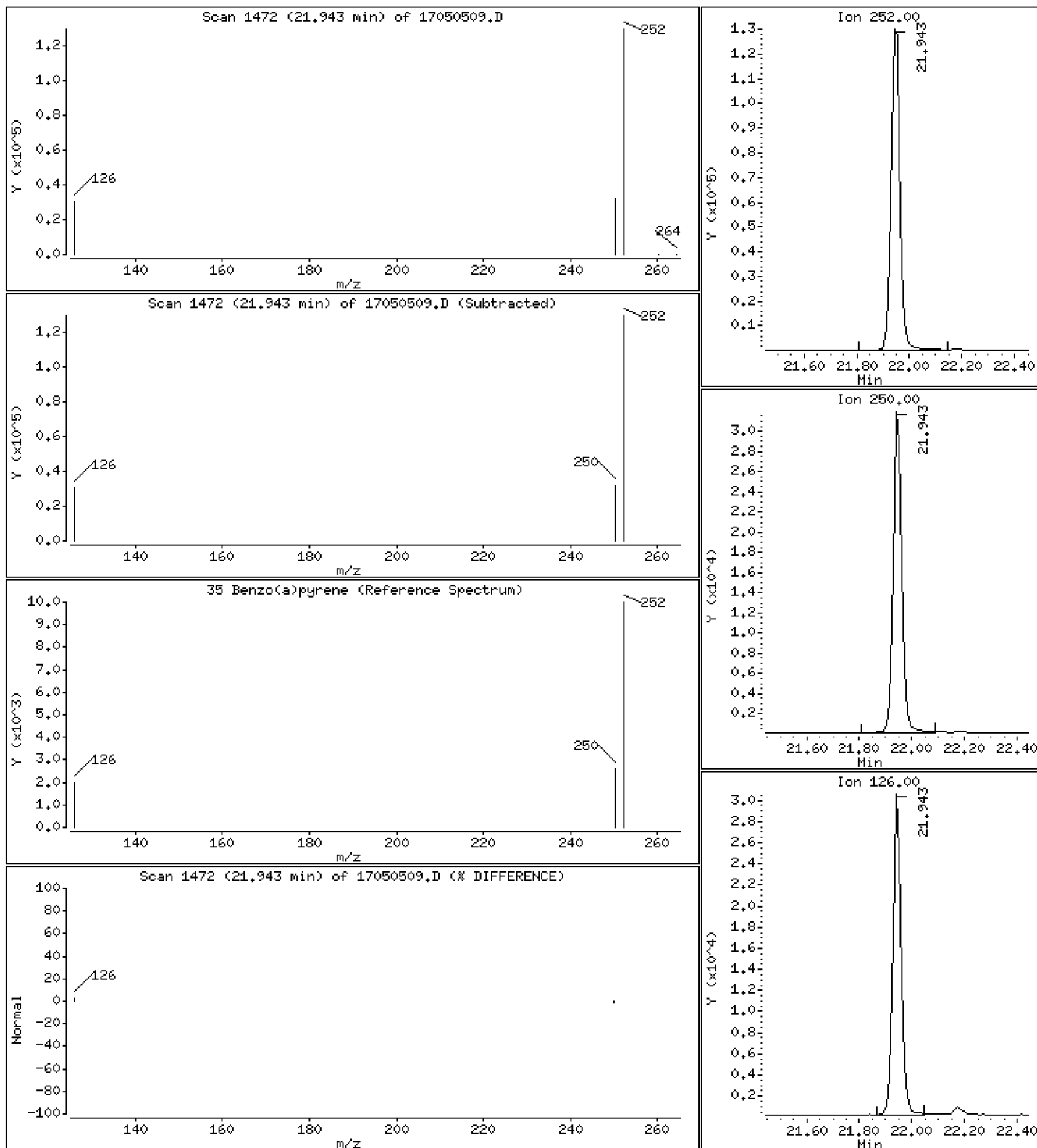
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

35 Benzo(a)pyrene

Concentration: 265 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

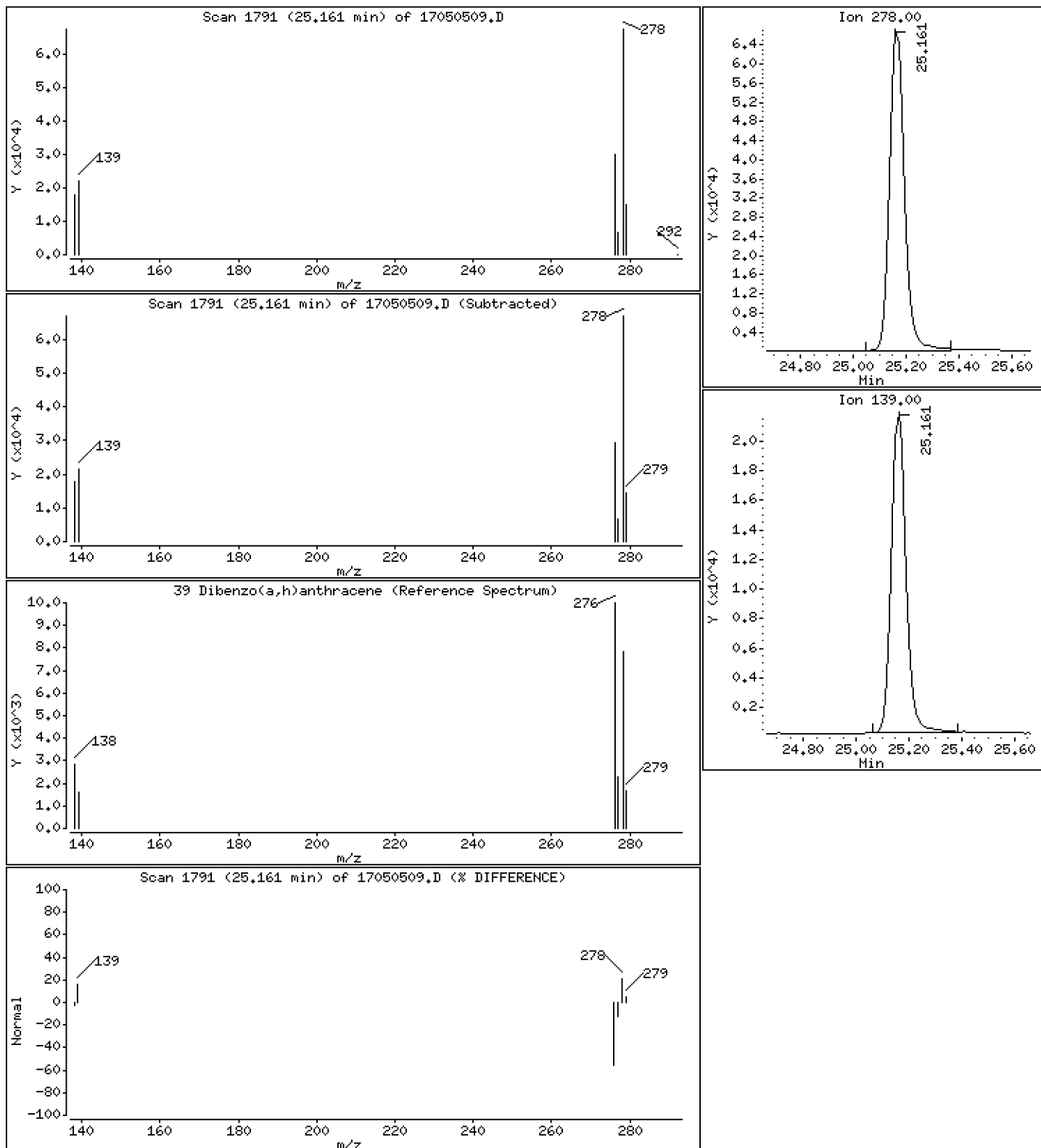
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

39 Dibenzo(a,h)anthracene

Concentration: 260 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

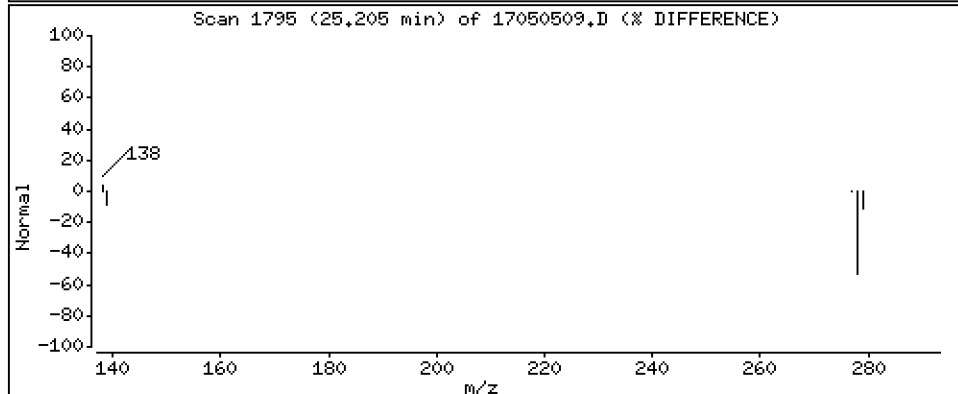
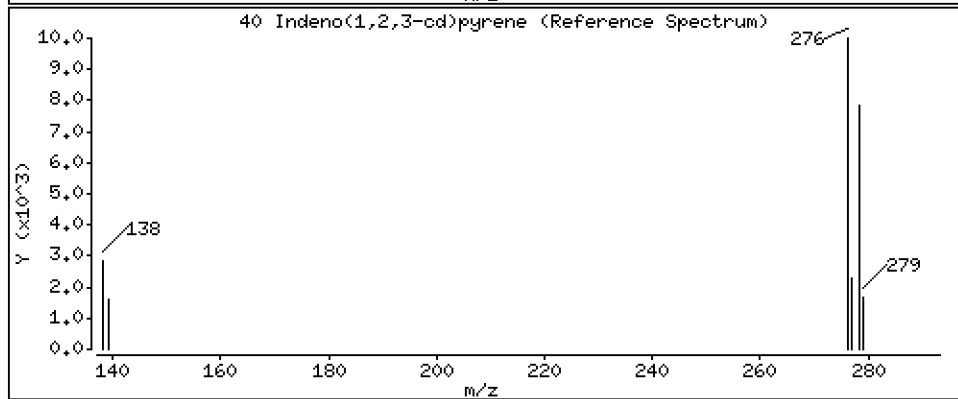
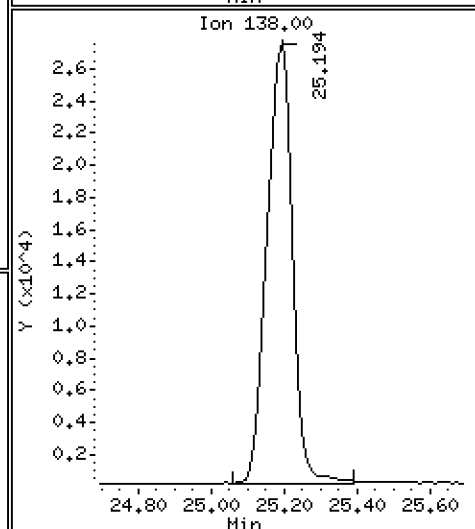
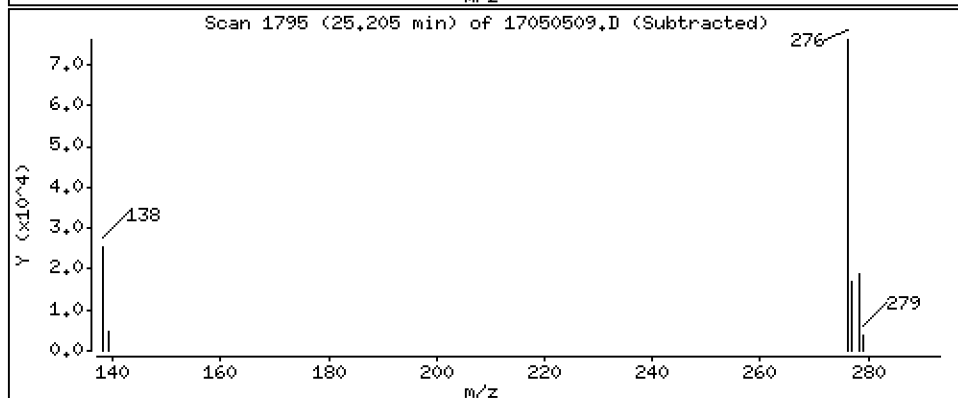
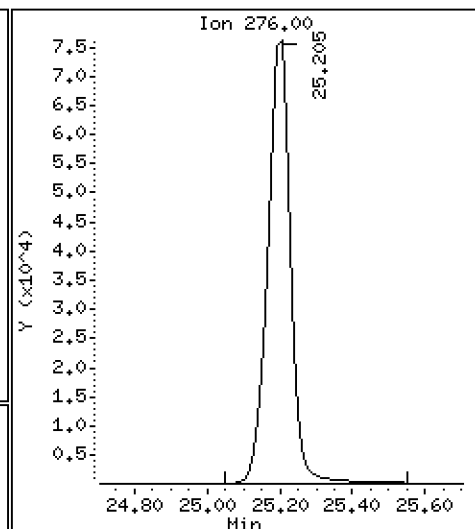
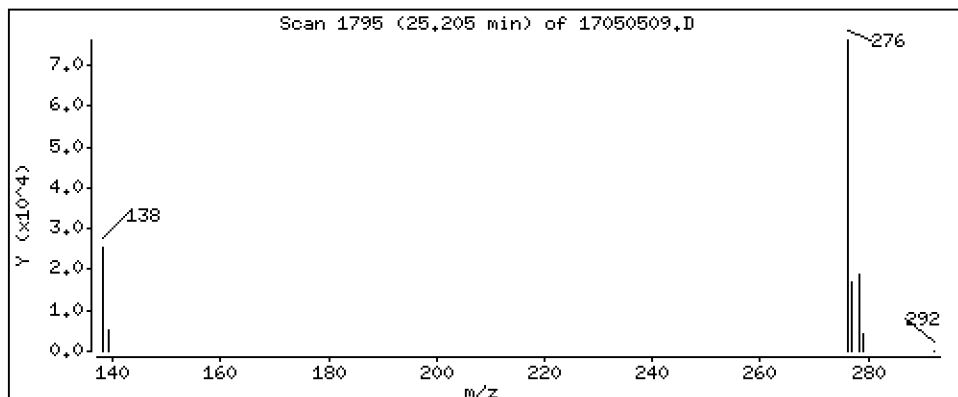
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 264 ng/mL



Date : 05-MAY-2017 15:23

Client ID:

Instrument: nt11.i

Sample Info: SFE0059-SCV1

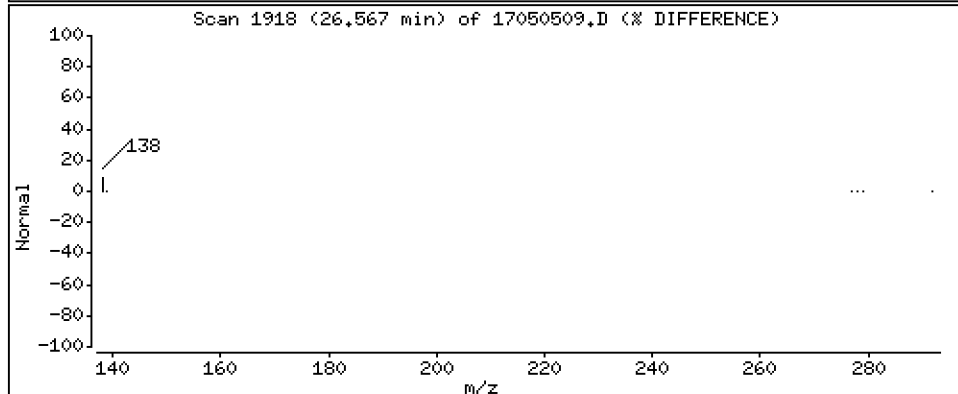
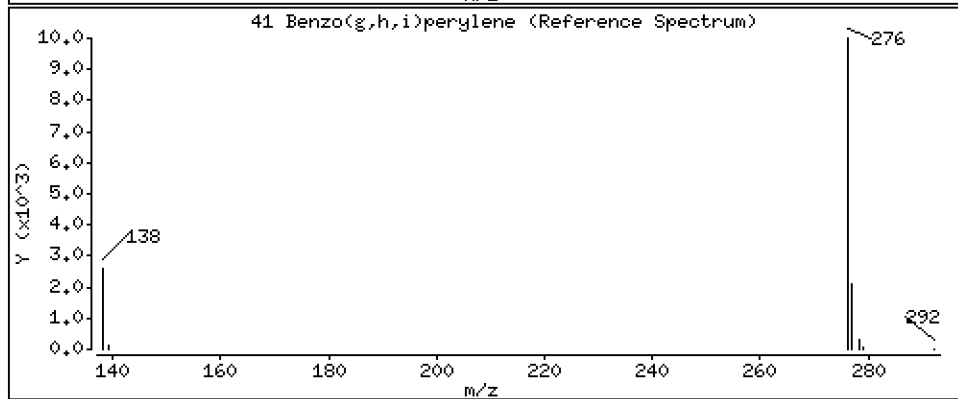
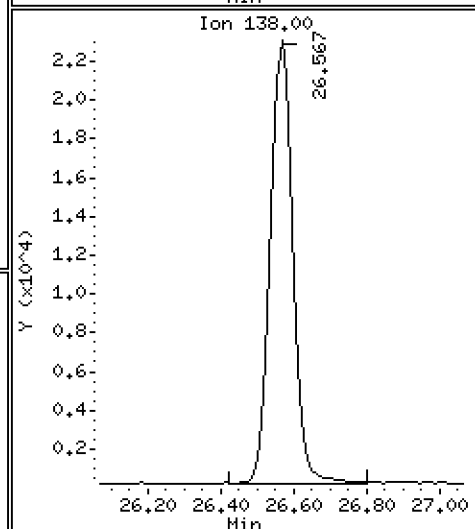
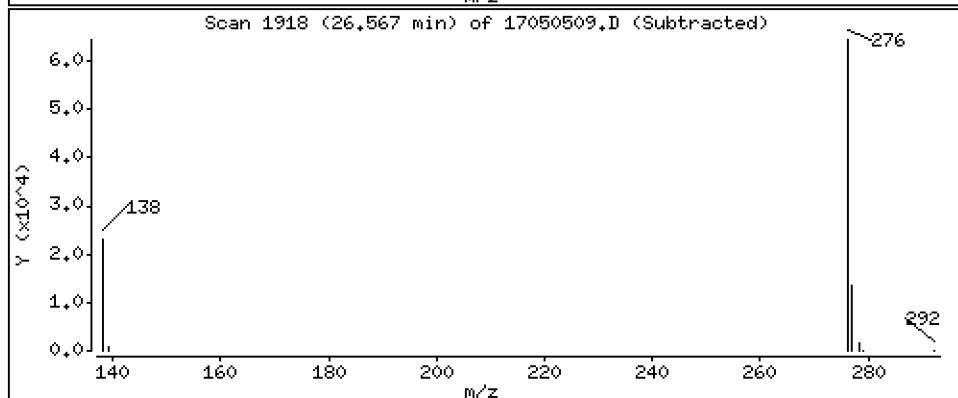
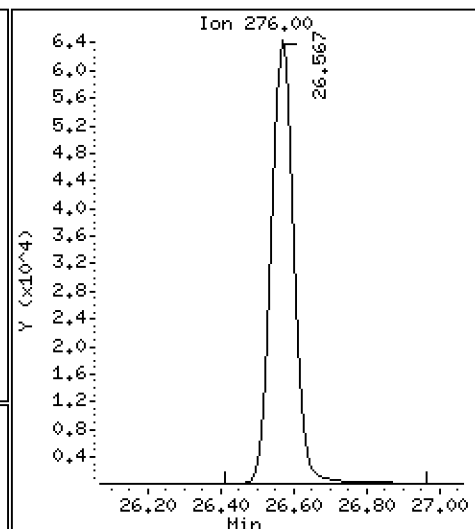
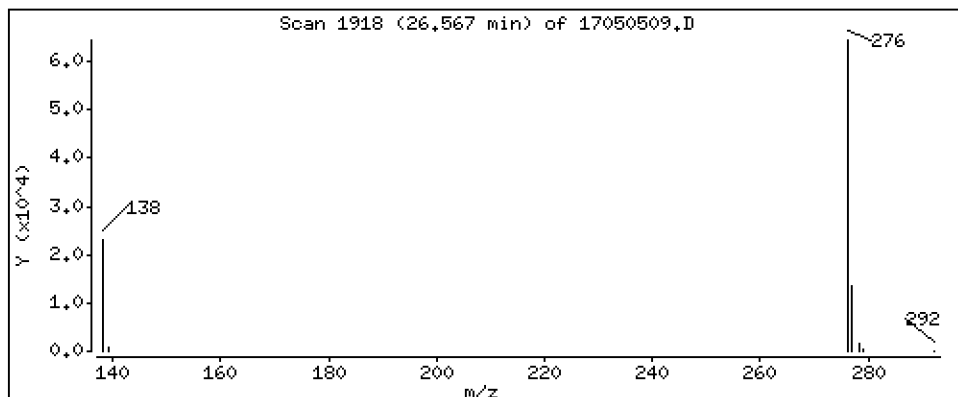
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

41 Benzo(g,h,i)perylene

Concentration: 262 ng/mL



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050509.D

Lab Smp Id: SFE0059-SCV1

Inj Date : 05-MAY-2017 15:23

MS Autotune Date: 15-JAN-2015 16:59

Operator : VTS

Inst ID: nt11.i

Smp Info : SFE0059-SCV1

Misc Info :

Comment :

Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m

Meth Date : 06-May-2017 08:49 nt11.i

Quant Type: ISTD

Cal Date : 05-MAY-2017 14:47

Cal File: 17050508.D

Als bottle: 1

Dil Factor: 1.00000

Integrator: HP RTE

Compound Sublist: allpna.sub

Target Version: 4.14

Processing Host: VANS

Compounds	QUANT	SIG	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	(ng/mL)	(ng/mL)
* 1 Naphthalene-d8	136	8.499	8.499	(1.000)	353470	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	456586	240.358	240
3 Benzo(b)thiophene	134	Compound Not Detected.					
\$ 4 2-Methylnaphthalene-d10	152	Compound Not Detected.					
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	450543	257.139	257
6 1-Methylnaphthalene	142	9.792	9.802	(1.152)	418203	246.808	247
7 2-Chloronaphthalene	162	10.454	10.454	(0.906)	373488	246.373	246
8 Biphenyl	154	Compound Not Detected.					
9 2,6-Dimethylnaphthalene	156	Compound Not Detected.					
10 Acenaphthylene	152	11.383	11.383	(0.987)	422022	246.846	247
* 11 Acenaphthene-d10	164	11.537	11.537	(1.000)	145863	200.000	
12 Acenaphthene	153	11.600	11.600	(1.005)	309187	276.562	277
13 Dibenzofuran	168	11.797	11.797	(1.023)	389481	252.504	253
14 2,3,5-Trimethylnaphthalene	170	Compound Not Detected.					
\$ 15 Fluorene-d10	174	Compound Not Detected.					
16 Fluorene	166	12.429	12.429	(1.077)	309438	257.250	257
17 Dibenzothiophene	184	Compound Not Detected.					
* 18 Phenanthrene-d10	188	14.230	14.230	(1.000)	234202	200.000	
19 Phenanthrene	178	14.272	14.272	(1.003)	446151	255.907	256
\$ 20 Anthracene-d10	188	Compound Not Detected.					
21 Anthracene	178	14.325	14.325	(1.007)	412225	240.004	240
22 Carbazole	167	15.000	14.999	(1.054)	504276	252.234	252
23 1-Methylphenanthrene	192	Compound Not Detected.					
\$ 24 Fluoranthene-d10	212	Compound Not Detected.					
25 Fluoranthene	202	16.377	16.377	(1.151)	439149	262.112	262
26 Pyrene	202	16.876	16.876	(0.889)	438217	255.184	255
27 Benzo(a)anthracene	228	18.892	18.900	(0.995)	352034	260.623	261
* 28 Chrysene-d12	240	18.991	18.991	(1.000)	189686	200.000	
29 Chrysene	228	19.041	19.041	(1.003)	348116	249.715	250
30 Benzo(b)fluoranthene	252	20.953	20.953	(0.945)	342991	267.607	268
31 Benzo(k)fluoranthene	252	21.001	21.010	(0.947)	335630	264.150	264
32 Benzo(j)fluoranthene	252	Compound Not Detected.					
\$ 33 Benzo(e)pyrene-d12	264	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ng/mL)	
34 Benzo(e)pyrene	252	Compound Not Detected.						
35 Benzo(a)pyrene	252	21.942	21.952	(0.989)	306973	264.763	265	
* 36 Perylene-d12	264	22.183	22.182	(1.000)	205114	200.000		
37 Perylene	252	Compound Not Detected.						
§ 38 Dibenzo(a,h)anthracene-d14	292	Compound Not Detected.						
39 Dibenzo(a,h)anthracene	278	25.160	25.171	(1.134)	254355	259.573	260	
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	323142	264.219	264	
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	273990	261.892	262	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: 17050509.D
 Lab Smp Id: SFE0059-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Calibration Date: 05-MAY-2017
 Calibration Time: 11:47
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	353470	-4.81
11 Acenaphthene-d10	154428	77214	308856	145863	-5.55
18 Phenanthrene-d10	256956	128478	513912	234202	-8.86
28 Chrysene-d12	208629	104315	417258	189686	-9.08
36 Perylene-d12	225431	112716	450862	205114	-9.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050509.D

Lab ID: SFE0059-SCV1
nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 15:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000



INITIAL CALIBRATION CHECK EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17D0421</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Instrument ID: <u>NT11</u>	Calibration: <u>AE00020</u>
Lab File ID: <u>N1117051702.D</u>	Calibration Date: <u>05/05/17 08:30</u>
Sequence: <u>SFE0225</u>	Injection Date: <u>05/17/17</u>
Lab Sample ID: <u>SFE0225-ICV1</u>	Injection Time: <u>09:02</u>
Sequence Name: <u>Initial Cal Check</u>	

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	250.00	241	1.0748340	1.0341840		-3.6	20
2-Methylnaphthalene	A	250.00	239	0.9913938	0.9479243		-4.4	20
Acenaphthylene	A	250.00	252	2.3441950	2.3614420		0.8	20
Acenaphthene	A	250.00	250	1.5328990	1.5322930		0.0	20
Fluorene	A	250.00	252	1.6493110	1.6616260		0.8	20
Phenanthrene	A	250.00	246	1.4888080	1.4641680		-1.6	20
Anthracene	A	250.00	266	1.4667480	1.5622300		6.4	20
Fluoranthene	A	250.00	257	1.4307540	1.4734820		2.8	20
Pyrene	A	250.00	272	1.8106330	1.9732580		8.8	20
Benzo(a)anthracene	A	250.00	268	1.4241860	1.5275060		7.2	20
Chrysene	A	250.00	269	1.4698520	1.5790880		7.6	20
Benzo(b)fluoranthene	A	250.00	230	1.2497410	1.1494250		-8.0	20
Benzo(k)fluoranthene	A	250.00	264	1.2389240	1.3073210		5.6	20
Benzo(e)pyrene	A	250.00	246	1.1617650	1.1413740		-1.6	20
Benzo(a)pyrene	A	250.00	251	1.1305160	1.1361110		0.4	20
Indeno(1,2,3-cd)pyrene	A	250.00	244	1.1925150	1.1639190		-2.4	20
Dibenzo(a,h)anthracene	A	250.00	240	0.9554681	0.9171334		-4.0	20
Benzo(g,h,i)perylene	A	250.00	237	1.0201110	0.9680110		-5.2	20
Perylene	A	250.00	247	1.1648950	1.1520450		-1.2	20
2-Methylnaphthalene-d10	A	250.00	240	0.8570707	0.8235331		-4.0	20
Dibenzo[a,h]anthracene-d14	A	250.00	234	0.7460398	0.6988120		-6.4	20
Fluoranthene-d10	A	250.00	249	0.9454756	0.9430682		-0.4	20

* Values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170517.16\N1117051702.D

Date: 17-May-2017 09:02

Client ID:

Sample Info: SFE0225-ICW1

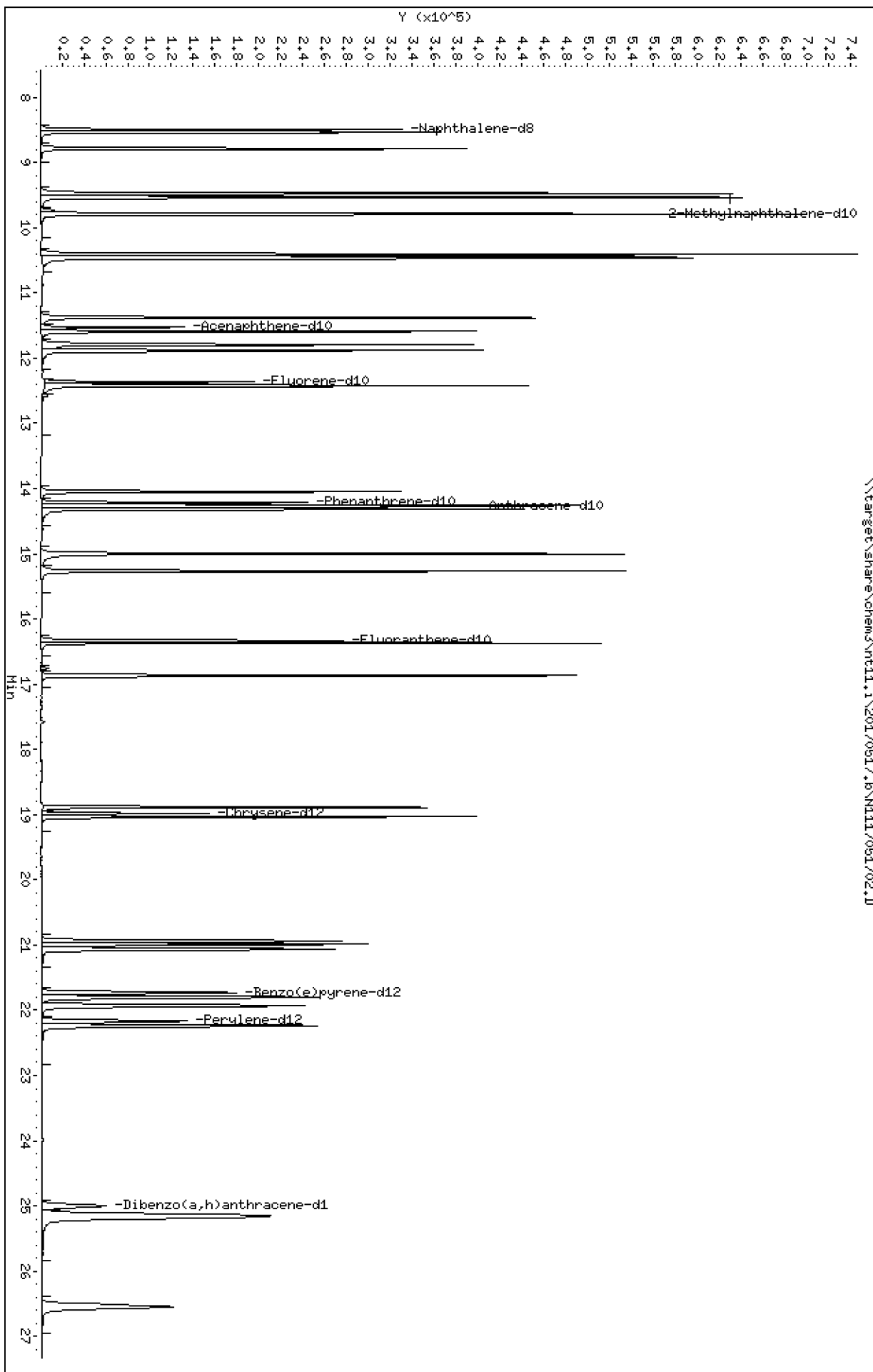
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170517.b\N1117051702.D
 Lab Smp Id: SFE0225-ICV1
 Inj Date : 17-MAY-2017 09:02 MS Autotune Date: 15-JAN-2015 16:59
 Operator : VTS Inst ID: nt11.i
 Smp Info : SFE0225-ICV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt11.i\20170517.b\lowsim.m
 Meth Date : 17-May-2017 11:47 nt11.i Quant Type: ISTD
 Cal Date : 05-MAY-2017 14:47 Cal File: 17050508.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allpna.sub
 Target Version: 4.14
 Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136		8.499	8.499	(1.000)	460933	200.000	
2 Naphthalene	128		8.535	8.535	(1.004)	595862	250.000	241
3 Benzo(b)thiophene	134		8.789	8.789	(1.034)	479208	250.000	247
\$ 4 2-Methylnaphthalene-d10	152		9.477	9.477	(1.115)	474492	250.000	240
5 2-Methylnaphthalene	142		9.540	9.540	(1.122)	546162	250.000	239
6 1-Methylnaphthalene	142		9.792	9.792	(1.152)	526148	250.000	238
7 2-Chloronaphthalene	162		10.454	10.454	(0.907)	481419	250.000	242
8 Biphenyl	154		10.412	10.412	(0.903)	627640	250.000	211
9 2,6-Dimethylnaphthalene	156		10.475	10.475	(0.909)	483525	250.000	231
10 Acenaphthylene	152		11.383	11.383	(0.987)	565468	250.000	252
* 11 Acenaphthene-d10	164		11.528	11.528	(1.000)	191567	200.000	
12 Acenaphthene	153		11.591	11.591	(1.005)	366921	250.000	250
13 Dibenzofuran	168		11.797	11.797	(1.023)	475137	250.000	235
14 2,3,5-Trimethylnaphthalene	170		11.885	11.885	(1.031)	280608	250.000	244
\$ 15 Fluorene-d10	174		12.366	12.366	(1.073)	229984	250.000	244
16 Fluorene	166		12.429	12.429	(1.078)	397891	250.000	252
17 Dibenzothiophene	184		14.052	14.052	(0.988)	393918	250.000	253
* 18 Phenanthrene-d10	188		14.220	14.220	(1.000)	300472	200.000	
19 Phenanthrene	178		14.262	14.262	(1.003)	549927	250.000	246
\$ 20 Anthracene-d10	188		14.283	14.283	(1.004)	386589	250.000	249
21 Anthracene	178		14.314	14.314	(1.007)	586758	250.000	266
22 Carbazole	167		14.999	14.999	(1.055)	682872	250.000	266
23 1-Methylphenanthrene	192		15.270	15.270	(1.074)	522580	250.000	258
\$ 24 Fluoranthene-d10	212		16.338	16.338	(1.149)	354207	250.000	249
25 Fluoranthene	202		16.367	16.367	(1.151)	553425	250.000	257
26 Pyrene	202		16.867	16.867	(0.889)	555958	250.000	272
27 Benzo(a)anthracene	228		18.891	18.891	(0.995)	430369	250.000	268
* 28 Chrysene-d12	240		18.983	18.983	(1.000)	225397	200.000	
29 Chrysene	228		19.033	19.033	(1.003)	444902	250.000	269
30 Benzo(b)fluoranthene	252		20.943	20.943	(0.945)	387023	250.000	230
31 Benzo(k)fluoranthene	252		20.991	20.991	(0.947)	440188	250.000	264
32 Benzo(j)fluoranthene	252		21.058	21.058	(0.950)	385603	250.000	247
\$ 33 Benzo(e)pyrene-d12	264		21.731	21.731	(0.980)	336207	250.000	238

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	
34 Benzo(e)pyrene	252	21.798	21.798	(0.984)	384312	250.000	246	
35 Benzo(a)pyrene	252	21.933	21.933	(0.990)	382540	250.000	251	
* 36 Perylene-d12	264	22.163	22.163	(1.000)	269368	200.000		
37 Perylene	252	22.240	22.240	(1.003)	387905	250.000	247	
§ 38 Dibenzo(a,h)anthracene-d14	292	25.005	25.005	(1.128)	235297	250.000	234	
39 Dibenzo(a,h)anthracene	278	25.138	25.138	(1.134)	308808	250.000	240	
40 Indeno(1,2,3-cd)pyrene	276	25.171	25.171	(1.136)	391903	250.000	244	
41 Benzo(g,h,i)perylene	276	26.544	26.544	(1.198)	325939	250.000	237	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i Calibration Date: 05-MAY-2017
 Lab File ID: N1117051702.D Calibration Time: 11:47
 Lab Smp Id: SFE0225-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170517.b\lowsim.m
 Misc Info:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	460933	24.13
11 Acenaphthene-d10	154428	77214	308856	191567	24.05
18 Phenanthrene-d10	256956	128478	513912	300472	16.94
28 Chrysene-d12	208629	104315	417258	225397	8.04
36 Perylene-d12	225431	112716	450862	269368	19.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.53	11.03	12.03	11.53	0.00
18 Phenanthrene-d10	14.22	13.72	14.72	14.22	0.00
28 Chrysene-d12	18.98	18.48	19.48	18.98	0.00
36 Perylene-d12	22.16	21.66	22.66	22.16	0.00

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

REVIEW SUMMARY FOR FILE - N1117051702.D

Lab ID: SFE0225-ICV1
nt11.i, 20170517.b\lowsim.m, 17-MAY-2017 09:02

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

On Column LOD for nt11.i, 20170517.b\lowsim.m, allpna.sub = 3.0000

Exception: Naphthalene 6.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170517.b

Instrument: nt11.i Date: 17-MAY-2017 Method: 20170517.b\lowsim.m

INITIAL CAL: 05-MAY-2017

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: N1117051702.D 17-MAY-2017 09:02

Compound	%D

NO Q-FLAGS	



INITIAL CALIBRATION CHECK EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17D0421</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Instrument ID: <u>NT11</u>	Calibration: <u>AE00020</u>
Lab File ID: <u>17050503ICV.D</u>	Calibration Date: <u>05/05/17 08:30</u>
Sequence: <u>SFE0059</u>	Injection Date: <u>05/05/17</u>
Lab Sample ID: <u>SFE0059-ICV1</u>	Injection Time: <u>11:47</u>
Sequence Name: <u>Initial Cal Check</u>	

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	250.00	243	1.0748340	1.0458070		-2.8	20
2-Methylnaphthalene	A	250.00	252	0.9913938	0.9991140		0.8	20
1-Methylnaphthalene	A	250.00	251	0.9587499	0.9613077		0.4	20
2-Chloronaphthalene	A	250.00	256	2.0785880	2.1323130		2.4	20
Acenaphthylene	A	250.00	254	2.3441950	2.3824180		1.6	20
Acenaphthene	A	250.00	251	1.5328990	1.5406900		0.4	20
Dibenzofuran	A	250.00	247	2.1149620	2.0930820		-1.2	20
Fluorene	A	250.00	253	1.6493110	1.6712050		1.2	20
Phenanthrene	A	250.00	254	1.4888080	1.5139400		1.6	20
Anthracene	A	250.00	243	1.4667480	1.4283100		-2.8	20
Carbazole	A	250.00	245	1.7072770	1.6748020		-2.0	20
Fluoranthene	A	250.00	257	1.4307540	1.4714180		2.8	20
Pyrene	A	250.00	248	1.8106330	1.7935570		-0.8	20
Benzo(a)anthracene	A	250.00	250	1.4241860	1.4219350		0.0	20
Chrysene	A	250.00	249	1.4698520	1.4644220		-0.4	20
Benzo(b)fluoranthene	A	250.00	244	1.2497410	1.2210460		-2.4	20
Benzo(k)fluoranthene	A	250.00	249	1.2389240	1.2321250		-0.4	20
Benzo(j)fluoranthene	A	250.00	245	1.1608340	1.1398720		-2.0	20
Benzofluoranthenes, Total	A	750.00	738	1.2165	1.1976810		-1.6	20
Benzo(a)pyrene	A	250.00	251	1.1305160	1.1367270		0.4	20
Perylene	A	250.00	248	1.1648950	1.1555360		-0.8	20
Indeno(1,2,3-cd)pyrene	A	250.00	249	1.1925150	1.1893980		-0.4	20
Dibenzo(a,h)anthracene	A	250.00	251	0.9554681	0.9580830		0.4	20
Benzo(g,h,i)perylene	A	250.00	245	1.0201110	0.9980988		-2.0	20
2-Methylnaphthalene-d10	A	250.00	250	0.8570707	0.8570411		0.0	20
Dibenzo[a,h]anthracene-d14	A	250.00	249	0.7460398	0.7420488		-0.4	20
Fluoranthene-d10	A	250.00	257	0.9454756	0.9734025		2.8	20

* Values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170505.16\17050503ICW.D

Date: 05-May-2017 11:47

Client ID:

Sample Info: SFE0059-ICW1

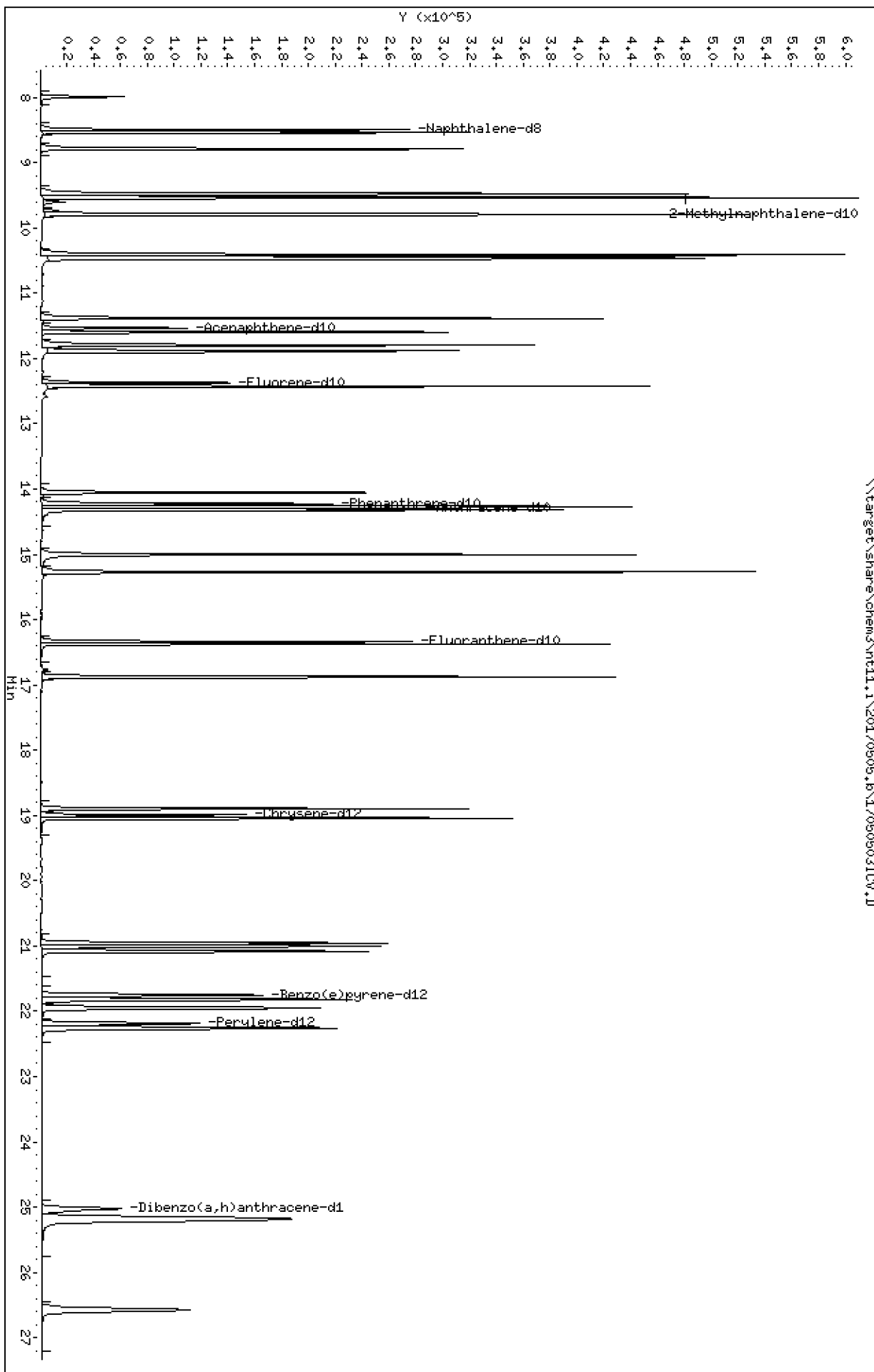
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170505.b\17050503ICV.D
 Lab Smp Id: SFE0059-ICV1
 Inj Date : 05-MAY-2017 11:47 MS Autotune Date: 15-JAN-2015 16:59
 Operator : VTS Inst ID: nt11.i
 Smp Info : SFE0059-ICV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Meth Date : 06-May-2017 08:49 nt11.i Quant Type: ISTD
 Cal Date : 05-MAY-2017 14:47 Cal File: 17050508.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allpna.sub
 Target Version: 4.14
 Processing Host: VANS

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136		8.499	8.499	(1.000)	371325	200.000	
2 Naphthalene	128		8.536	8.536	(1.004)	485418	250.000	243
3 Benzo(b)thiophene	134		8.789	8.789	(1.034)	405571	250.000	259
\$ 4 2-Methylnaphthalene-d10	152		9.477	9.477	(1.115)	397801	250.000	250
5 2-Methylnaphthalene	142		9.540	9.540	(1.122)	463745	250.000	252
6 1-Methylnaphthalene	142		9.802	9.802	(1.153)	446197	250.000	251
7 2-Chloronaphthalene	162		10.454	10.454	(0.906)	411611	250.000	256
8 Biphenyl	154		10.412	10.412	(0.902)	547218	250.000	228 (H)
9 2,6-Dimethylnaphthalene	156		10.475	10.475	(0.908)	428206	250.000	254
10 Acenaphthylene	152		11.383	11.383	(0.987)	459890	250.000	254
* 11 Acenaphthene-d10	164		11.537	11.537	(1.000)	154428	200.000	
12 Acenaphthene	153		11.600	11.600	(1.005)	297407	250.000	251
13 Dibenzofuran	168		11.797	11.797	(1.023)	404038	250.000	247
14 2,3,5-Trimethylnaphthalene	170		11.898	11.898	(1.031)	241555	250.000	261
\$ 15 Fluorene-d10	174		12.378	12.378	(1.073)	192792	250.000	254
16 Fluorene	166		12.429	12.429	(1.077)	322601	250.000	253
17 Dibenzothiophene	184		14.052	14.052	(0.987)	340607	250.000	256
* 18 Phenanthrene-d10	188		14.230	14.230	(1.000)	256956	200.000	
19 Phenanthrene	178		14.272	14.272	(1.003)	486270	250.000	254
\$ 20 Anthracene-d10	188		14.293	14.293	(1.004)	331343	250.000	250
21 Anthracene	178		14.325	14.325	(1.007)	458766	250.000	243
22 Carbazole	167		14.999	14.999	(1.054)	537938	250.000	245
23 1-Methylphenanthrene	192		15.271	15.271	(1.073)	453626	250.000	262
\$ 24 Fluoranthene-d10	212		16.338	16.338	(1.148)	312652	250.000	257
25 Fluoranthene	202		16.377	16.377	(1.151)	472612	250.000	257
26 Pyrene	202		16.876	16.876	(0.889)	467735	250.000	248
27 Benzo(a)anthracene	228		18.900	18.900	(0.995)	370821	250.000	250
* 28 Chrysene-d12	240		18.991	18.991	(1.000)	208629	200.000	
29 Chrysene	228		19.041	19.041	(1.003)	381901	250.000	249
30 Benzo(b)fluoranthene	252		20.953	20.953	(0.945)	344077	250.000	244 (H)
31 Benzo(k)fluoranthene	252		21.010	21.010	(0.947)	347199	250.000	249 (H)
32 Benzo(j)fluoranthene	252		21.077	21.077	(0.950)	321203	250.000	245
\$ 33 Benzo(e)pyrene-d12	264		21.750	21.750	(0.981)	288259	250.000	244

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)	
34 Benzo(e)pyrene	252	21.817	21.817	(0.984)	322443	250.000	246	
35 Benzo(a)pyrene	252	21.952	21.952	(0.990)	320317	250.000	251	
* 36 Perylene-d12	264	22.182	22.182	(1.000)	225431	200.000		
37 Perylene	252	22.259	22.259	(1.003)	325617	250.000	248	
§ 38 Dibenzo(a,h)anthracene-d14	292	25.027	25.027	(1.128)	209101	250.000	249	
39 Dibenzo(a,h)anthracene	278	25.171	25.171	(1.135)	269977	250.000	251	
40 Indeno(1,2,3-cd)pyrene	276	25.204	25.204	(1.136)	335159	250.000	249	
41 Benzo(g,h,i)perylene	276	26.567	26.567	(1.198)	281253	250.000	245	

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i Calibration Date: 05-MAY-2017
 Lab File ID: 17050503ICV.D Calibration Time: 11:47
 Lab Smp Id: SFE0059-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170505.b\LOWSIM.m
 Misc Info:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	371325	0.00
11 Acenaphthene-d10	154428	77214	308856	154428	0.00
18 Phenanthrene-d10	256956	128478	513912	256956	0.00
28 Chrysene-d12	208629	104315	417258	208629	0.00
36 Perylene-d12	225431	112716	450862	225431	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.54	11.04	12.04	11.54	0.00
18 Phenanthrene-d10	14.23	13.73	14.73	14.23	0.00
28 Chrysene-d12	18.99	18.49	19.49	18.99	0.00
36 Perylene-d12	22.18	21.68	22.68	22.18	0.00

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

REVIEW SUMMARY FOR FILE - 17050503ICV.D

Lab ID: SFE0059-ICV1
nt11.i, 20170505.b\LOWSIM.m, 05-MAY-2017 11:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

On Column LOD for nt11.i, 20170505.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 7.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Instrument: nt11.i Date: 05-MAY-2017 Method: 20170505.b\LOWSIM.m

INITIAL CAL: 05-MAY-2017

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: 17050503ICV.D 05-MAY-2017 11:47

Compound	%D

NO Q-FLAGS	



INITIAL CALIBRATION CHECK EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17D0421</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Instrument ID: <u>NT11</u>	Calibration: <u>AE00020</u>
Lab File ID: <u>N1117051602.D</u>	Calibration Date: <u>05/05/17 08:30</u>
Sequence: <u>SFE0208</u>	Injection Date: <u>05/16/17</u>
Lab Sample ID: <u>SFE0208-ICV1</u>	Injection Time: <u>10:47</u>
Sequence Name: <u>Initial Cal Check</u>	

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Naphthalene	A	250.00	241	1.0748340	1.0364360		-3.6	20
2-Methylnaphthalene	A	250.00	233	0.9913938	0.9248936		-6.8	20
Acenaphthylene	A	250.00	261	2.3441950	2.4440530		4.4	20
Acenaphthene	A	250.00	257	1.5328990	1.5750840		2.8	20
Fluorene	A	250.00	246	1.6493110	1.6246610		-1.6	20
Phenanthrene	A	250.00	267	1.4888080	1.5900740		6.8	20
Anthracene	A	250.00	284	1.4667480	1.6679760		13.6	20
Fluoranthene	A	250.00	268	1.4307540	1.5322060		7.2	20
Pyrene	A	250.00	288	1.8106330	2.0823690		15.2	20
Benzo(a)anthracene	A	250.00	283	1.4241860	1.6137920		13.2	20
Chrysene	A	250.00	277	1.4698520	1.6287720		10.8	20
Benzo(b)fluoranthene	A	250.00	244	1.2497410	1.2176130		-2.4	20
Benzo(k)fluoranthene	A	250.00	254	1.2389240	1.2612050		1.6	20
Benzo(e)pyrene	A	250.00	249	1.1617650	1.1567270		-0.4	20
Benzo(a)pyrene	A	250.00	253	1.1305160	1.1462190		1.2	20
Indeno(1,2,3-cd)pyrene	A	250.00	241	1.1925150	1.1511490		-3.6	20
Dibenzo(a,h)anthracene	A	250.00	241	0.9554681	0.9208197		-3.6	20
Benzo(g,h,i)perylene	A	250.00	236	1.0201110	0.9611628		-5.6	20
Perylene	A	250.00	252	1.1648950	1.1722490		0.8	20
2-Methylnaphthalene-d10	A	250.00	235	0.8570707	0.8062469		-6.0	20
Dibenzo[a,h]anthracene-d14	A	250.00	230	0.7460398	0.6868588		-8.0	20
Fluoranthene-d10	A	250.00	251	0.9454756	0.9496133		0.4	20

* Values outside of QC limits

Data File: \\target\share\chem3\nt11.1\20170516.6\N1117051602.D

Date : 16-May-2017 10:47

Client ID:

Sample Info: SFE0208-ICW1

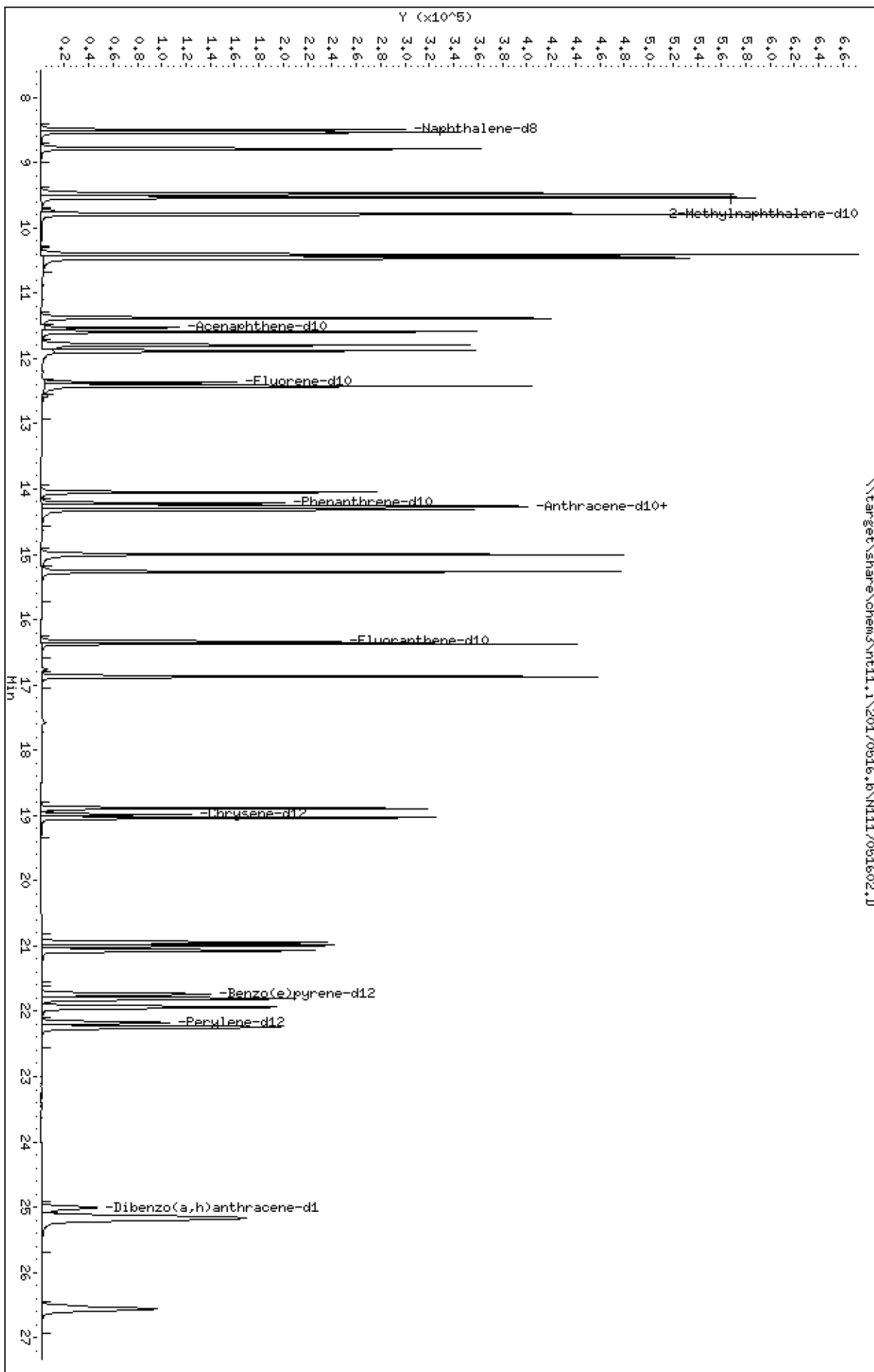
Column phase: Rxi-17S11 MS

Instrument: nt11.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20170516.b\N1117051602.D
 Lab Smp Id: SFE0208-ICV1
 Inj Date : 16-MAY-2017 10:47 MS Autotune Date: 15-JAN-2015 16:59
 Operator : VTS Inst ID: nt11.i
 Smp Info : SFE0208-ICV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Meth Date : 17-May-2017 08:15 nt11.i Quant Type: ISTD
 Cal Date : 05-MAY-2017 14:47 Cal File: 17050508.D
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: allpna.sub
 Target Version: 4.14
 Processing Host: VANS

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 1 Naphthalene-d8	136	8.500	8.500	(1.000)	423503	200.000	
2 Naphthalene	128	8.536	8.536	(1.004)	548667	250.000	241
3 Benzo(b)thiophene	134	8.789	8.789	(1.034)	443408	250.000	248
\$ 4 2-Methylnaphthalene-d10	152	9.477	9.477	(1.115)	426810	250.000	235
5 2-Methylnaphthalene	142	9.540	9.540	(1.122)	489619	250.000	233
6 1-Methylnaphthalene	142	9.792	9.792	(1.152)	479938	250.000	236
7 2-Chloronaphthalene	162	10.454	10.454	(0.907)	431727	250.000	249
8 Biphenyl	154	10.412	10.412	(0.903)	562711	250.000	217
9 2,6-Dimethylnaphthalene	156	10.475	10.475	(0.909)	438769	250.000	241
10 Acenaphthylene	152	11.383	11.383	(0.987)	509197	250.000	261
* 11 Acenaphthene-d10	164	11.528	11.528	(1.000)	166673	200.000	
12 Acenaphthene	153	11.591	11.591	(1.005)	328155	250.000	257
13 Dibenzofuran	168	11.797	11.797	(1.023)	422792	250.000	240
14 2,3,5-Trimethylnaphthalene	170	11.886	11.886	(1.031)	244848	250.000	245
\$ 15 Fluorene-d10	174	12.366	12.366	(1.073)	198604	250.000	243
16 Fluorene	166	12.429	12.429	(1.078)	338484	250.000	246
17 Dibenzothiophene	184	14.052	14.052	(0.988)	335365	250.000	263
* 18 Phenanthrene-d10	188	14.220	14.220	(1.000)	246299	200.000	
19 Phenanthrene	178	14.262	14.262	(1.003)	489542	250.000	267
\$ 20 Anthracene-d10	188	14.283	14.283	(1.004)	328359	250.000	258
21 Anthracene	178	14.325	14.325	(1.007)	513526	250.000	284
22 Carbazole	167	15.000	15.000	(1.055)	594678	250.000	283
23 1-Methylphenanthrene	192	15.271	15.271	(1.074)	445827	250.000	268
\$ 24 Fluoranthene-d10	212	16.338	16.338	(1.149)	292361	250.000	251
25 Fluoranthene	202	16.367	16.367	(1.151)	471726	250.000	268
26 Pyrene	202	16.876	16.876	(0.889)	476511	250.000	288
27 Benzo(a)anthracene	228	18.892	18.892	(0.995)	369286	250.000	283
* 28 Chrysene-d12	240	18.983	18.983	(1.000)	183065	200.000	
29 Chrysene	228	19.033	19.033	(1.003)	372714	250.000	277
30 Benzo(b)fluoranthene	252	20.943	20.943	(0.945)	325235	250.000	244
31 Benzo(k)fluoranthene	252	21.001	21.001	(0.947)	336879	250.000	254
32 Benzo(j)fluoranthene	252	21.068	21.068	(0.950)	313315	250.000	253
\$ 33 Benzo(e)pyrene-d12	264	21.731	21.731	(0.980)	275481	250.000	246

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
34 Benzo(e)pyrene	252	21.808	21.808	(0.984)	308972	250.000	249
35 Benzo(a)pyrene	252	21.933	21.933	(0.989)	306165	250.000	253
* 36 Perylene-d12	264	22.173	22.173	(1.000)	213687	200.000	
37 Perylene	252	22.250	22.250	(1.003)	313118	250.000	252
§ 38 Dibenzo(a,h)anthracene-d14	292	25.016	25.016	(1.128)	183466	250.000	230
39 Dibenzo(a,h)anthracene	278	25.149	25.149	(1.134)	245959	250.000	241
40 Indeno(1,2,3-cd)pyrene	276	25.182	25.182	(1.136)	307482	250.000	241
41 Benzo(g,h,i)perylene	276	26.556	26.556	(1.198)	256735	250.000	236

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i Calibration Date: 05-MAY-2017
 Lab File ID: N1117051602.D Calibration Time: 11:47
 Lab Smp Id: SFE0208-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt11.i\20170516.b\LOWSIM.m
 Misc Info:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	371325	185663	742650	423503	14.05
11 Acenaphthene-d10	154428	77214	308856	166673	7.93
18 Phenanthrene-d10	256956	128478	513912	246299	-4.15
28 Chrysene-d12	208629	104315	417258	183065	-12.25
36 Perylene-d12	225431	112716	450862	213687	-5.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 Naphthalene-d8	8.50	8.00	9.00	8.50	0.00
11 Acenaphthene-d10	11.53	11.03	12.03	11.53	0.00
18 Phenanthrene-d10	14.22	13.72	14.72	14.22	0.00
28 Chrysene-d12	18.98	18.48	19.48	18.98	0.00
36 Perylene-d12	22.17	21.67	22.67	22.17	0.00

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

REVIEW SUMMARY FOR FILE - N1117051602.D

Lab ID: SFE0208-ICV1
nt11.i, 20170516.b\LOWSIM.m, 16-MAY-2017 10:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

On Column LOD for nt11.i, 20170516.b\LOWSIM.m, allpna.sub = 3.0000

Exception: Naphthalene 6.0000
Exception: Phenanthrene 2.5000
Exception: Anthracene 2.0000
Exception: Pyrene 4.0000
Exception: Benzo(j)fluoranthene 2.5000
Exception: Benzo(a)pyrene 2.0000
Exception: Perylene 3.5000
Exception: Benzo(e)pyrene 2.0000
Exception: Benzo(b)thiophene 2.0000
Exception: 2-Chloronaphthalene 2.0000
Exception: 2,6-Dimethylnaphthalene 2.0000
Exception: 2,3,5-Trimethylnaphthalene 2.0000
Exception: 1-Methylphenanthrene 2.0000
Exception: Dibenzothiophene 2.0000
Exception: Carbazole 2.0000
Exception: Biphenyl 2.0000
Exception: 2-Methylnaphthalene-d10 (Surr) 0.1000
Exception: Dibenzo(a,h)anthracene-d14 (Surr) 0.1000
Exception: Fluoranthene-d10 (Surr) 0.1000
Exception: Anthracene-d10 (Surr) 0.1000
Exception: Benzo(e)pyrene-d12 (Surr) 0.1000
Exception: Fluorene-d10 (Surr) 0.1000

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170516.b

Instrument: nt11.i Date: 16-MAY-2017 Method: 20170516.b\LOWSIM.m

INITIAL CAL: 05-MAY-2017

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: N1117051602.D 16-MAY-2017 10:47

Compound	%D

NO Q-FLAGS	



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0059

Instrument: NT11

Calibration: AE00020

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DFTPP	SFE0059-TUN1	17050501.D	Water	05/05/17 10:50
Cal Standard	SFE0059-CAL4	17050503.D	Water	05/05/17 11:47
Initial Cal Check	SFE0059-ICV1	17050503ICV.D	Water	05/05/17 11:47
Cal Standard	SFE0059-CAL6	17050504.D	Water	05/05/17 12:23
Cal Standard	SFE0059-CAL1	17050505.D	Water	05/05/17 12:59
Cal Standard	SFE0059-CAL5	17050506.D	Water	05/05/17 13:35
Cal Standard	SFE0059-CAL2	17050507.D	Water	05/05/17 14:11
Cal Standard	SFE0059-CAL3	17050508.D	Water	05/05/17 14:47
SIMPNA SCV	SFE0059-SCV1	17050509.D	Water	05/05/17 15:23
ZZZZZ	BFD0748-BLK1	17050510.D	Water	05/05/17 15:59
ZZZZZ	BFD0748-BS1	17050511.D	Water	05/05/17 16:36
ZZZZZ	BFD0748-MRL1	17050512.D	Water	05/05/17 17:12
ZZZZZ	BFD0748-MRL2	17050513.D	Water	05/05/17 17:47
ZZZZZ	17D0423-16	17050514.D	Water	05/05/17 18:24
ZZZZZ	17D0423-17	17050515.D	Water	05/05/17 19:00
ZZZZZ	17D0423-18	17050516.D	Water	05/05/17 19:37
ZZZZZ	BFE0047-BLK1	17050517.D	Water	05/05/17 20:13
ZZZZZ	BFE0047-BS1	17050518.D	Water	05/05/17 20:49
ZZZZZ	17D0446-01	17050519.D	Water	05/05/17 21:25
ZZZZZ	17D0446-02	17050520.D	Water	05/05/17 22:01
ZZZZZ	17D0446-03	17050521.D	Water	05/05/17 22:37
SIM PAH 250	SFE0059-CCV1	17050525.D	Water	05/06/17 01:01



ANALYSIS SEQUENCE

SFE0059

Instrument: NT11 Element Column ID: E006481
Calibration ID: AE00020 Tune File: 170505.U
EM Voltage: 2071

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	
SFE0059-TUN1	DFTPP	QC		1	E007446		
SFE0059-CAL4	Cal Standard	QC		2	E006577	F004122	
SFE0059-CAL6	Cal Standard	QC		3	E006579	F004122	
SFE0059-CAL1	Cal Standard	QC		4	E006574	F004122	
SFE0059-CAL5	Cal Standard	QC		5	E006578	F004122	
SFE0059-CAL2	Cal Standard	QC		6	E006575	F004122	
SFE0059-CAL3	Cal Standard	QC		7	E006576	F004122	
SFE0059-SCV1	SIMPNA SCV	QC		8	F004123	F004122	
SFE0059-ICV1	Initial Cal Check	QC		9	E006577	F004122	
BFD0748-BLK1	Blank	QC		10		F004122	
BFD0748-BS1	LCS	QC		11		F004122	
BFD0748-MRL1	MRL	QC		12		F004122	
BFD0748-MRL2	LOD	QC		13		F004122	
17D0423-16	MW-9S-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	14		F004122	
17D0423-17	MW-9D-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	15		F004122	
17D0423-18	MW-16S-042617	SIM PAH Low (0.01 ug/L - 0.	D 01	16		F004122	
BFE0047-BLK1	Blank	QC		17		F004122	
BFE0047-BS1	LCS	QC		18		F004122	
17D0446-01	MAF-MW-BG-01-20170426	SIM PAH Low (0.01 ug/L - 0.	E 01	19		F004122	
17D0446-02	MAF-MW-P-01-20170426	SIM PAH Low (0.01 ug/L - 0.	E 01	20		F004122	
17D0446-03	MAF-MW-P-02-20170427	SIM PAH Low (0.01 ug/L - 0.	E 01	21		F004122	
SFE0059-CCV1	SIM PAH 250	QC		22	E006577	F004122	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientId	DF	1	INO	ISTDS	FOUND						
1	1050	17050501.D	SFE0059-TUN1		1	INO	ISTDS	FOUND						
2	1110	17050502.D	E002858	1	8.50	340246	11.54	150664	14.23	261399	18.99	200906	22.18	222794
3	1147	17050503.D	SFE0059-CAL4	1	8.50	371325	11.54	154428	14.23	256956	18.99	208629	22.18	225431
4	1147	17050503ICV.D	SFE0059-CAL4	1	8.50	371325	11.54	154428	14.23	256956	18.99	208629	22.18	225431
5	1223	17050504.D	SFE0059-CAL6	1	8.50	371198	11.54	162579	14.23	285659	18.99	210433	22.18	228317
6	1259	17050505.D	SFE0059-CAL1	1	8.50	362430	11.54	142581	14.23	236545	18.99	197257	22.18	213968
7	1335	17050506.D	SFE0059-CAL5	1	8.50	361073	11.54	156339	14.23	261454	18.99	200348	22.18	216363
8	1411	17050507.D	SFE0059-CAL2	1	8.50	358455	11.54	145440	14.23	240109	18.99	202079	22.18	214583
9	1447	17050508.D	SFE0059-CAL3	1	8.50	353401	11.54	145861	14.23	238193	18.99	190128	22.18	206951
10	1523	17050509.D	SFE0059-SCV1	1	8.50	353470	11.54	145863	14.23	234202	18.99	189686	22.18	205114
11	1559	17050510.D	BFD0748-BLK1	1	8.50	364557	11.54	148171	14.23	246765	18.99	186603	22.18	207414
12	1636	17050511.D	BFD0748-BS1	1	8.50	365532	11.53	155718	14.23	252417	18.99	193816	22.18	211193
13	1712	17050512.D	BFD0748-MRL1	1	8.50	357350	11.54	145354	14.23	240503	18.99	183698	22.18	200322
14	1747	17050513.D	BFD0748-MRL2	1	8.50	350679	11.54	143948	14.23	232075	18.99	177031	22.18	192510
15	1824	17050514.D	17D0423-16	1	8.50	387471	11.54	166801	14.23	289100	18.99	204827	22.18	235384
16	1900	17050515.D	17D0423-17	1	8.50	413815	11.54	176102	14.23	305918	18.99	209895	22.18	234789
17	1937	17050516.D	17D0423-18	1	8.50	403371	11.54	206745	14.23	310361	18.99	214026	22.18	234242
18	2013	17050517.D	BFE0047-BLK1	1	8.50	370404	11.54	153131	14.23	252409	18.99	195024	22.18	215991
19	049	17050518.D	BFE0047-BS1	1	8.50	360144	11.53	157816	14.22	252225	18.99	197830	22.18	212024
20	2125	17050519.D	17D0446-01	1	8.50	357142	11.53	148433	14.23	244374	18.99	186556	22.18	203965

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientID	DF										
21	17050520.D	17D0446-02		1	8.50	357524	11.53	152177	14.22	242039	18.99	185139	22.18	203351
22	17050521.D	17D0446-03		1	8.50	355615	11.53	153966	14.23	245258	18.99	184548	22.18	200894
23	17050522.D	17D0446-04		1	8.50	362660	11.53	155980	14.23	248223	18.99	188543	22.18	206338
24	17050523.D	17D0446-05		1	8.50	385285	11.53	161144	14.22	261837	18.99	190982	22.17	209035
25	17050524.D	17D0446-06		1	8.50	363805	11.53	156031	14.22	249360	18.99	185091	22.17	201965
26	17050525.D	SFE0059-CCV1		1	8.50	371666	11.53	155991	14.22	252744	18.99	203647	22.17	218913

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

ARI Job No.: SFE0 Method: DFTPP.m Instrument: nt11.i Date: 05-MAY-2017

Time Filename LabID ClientId DF Manually Integrated Compounds

1050	17050501.D	SFE0059-TUN1		1	NO MANUAL INTEGRATION
1110	17050502.D	E002858		1	NO MANUAL INTEGRATION
1147	17050503.D	SFE0059-CAL4		1	NO MANUAL INTEGRATION
1147	17050503ICV.D	SFE0059-CAL4		1	NO MANUAL INTEGRATION
1223	17050504.D	SFE0059-CAL6		1	NO MANUAL INTEGRATION
1259	17050505.D	SFE0059-CAL1		1	2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene, Anthracene-d10, Fluorene-d10,
1335	17050506.D	SFE0059-CAL5		1	NO MANUAL INTEGRATION
1411	17050507.D	SFE0059-CAL2		1	Biphenyl,
1447	17050508.D	SFE0059-CAL3		1	NO MANUAL INTEGRATION
1523	17050509.D	SFE0059-SCV1		1	NO MANUAL INTEGRATION
1559	17050510.D	BFD0748-BLK1		1	NO MANUAL INTEGRATION
1636	17050511.D	BFD0748-BS1		1	NO MANUAL INTEGRATION
1712	17050512.D	BFD0748-MRL1		1	Benzo(e)pyrene, 2,3,5-Trimethylnaphthalene,
1747	17050513.D	BFD0748-MRL2		1	Naphthalene, Benzo(e)pyrene, Benzo(b)thiophene, 2-Chloronaphthalene, 2,6-Dimethylnaphthalene, 2,3,5-Trimethylnaphthalene, 1-Methylphenanthrene, Dibenzothiophene, Carbazole,
1824	17050514.D	17D0423-16		1	Acenaphthylene, Benzo(a)anthracene, Acenaphthene-d10, 2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene,
1906	17050515.D	17D0423-17		1	Acenaphthylene, Acenaphthene-d10, 2-Chloronaphthalene, 2,3,5-Trimethylnaphthalene,
193	17050516.D	17D0423-18		1	Acenaphthylene, 1-Methylnaphthalene, 2,3,5-Trimethylnaphthalene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170505.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2013	17050517.D	BFE0047-BLK1	1	NO	NO MANUAL INTEGRATION
2049	17050518.D	BFE0047-BS1	1	NO	NO MANUAL INTEGRATION
2125	17050519.D	17D0446-01	1	NO	NO MANUAL INTEGRATION
2201	17050520.D	17D0446-02	1	NO	NO MANUAL INTEGRATION
2237	17050521.D	17D0446-03	1	NO	NO MANUAL INTEGRATION
2313	17050522.D	17D0446-04	1	NO	NO MANUAL INTEGRATION
2349	17050523.D	17D0446-05	1	NO	NO MANUAL INTEGRATION
0025	17050524.D	17D0446-06	1	Acenaphthene,	
0101	17050525.D	SFE0059-CCV1	1	NO	NO MANUAL INTEGRATION



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0208

Instrument: NT11

Calibration: AE00020

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DFTPP	SFE0208-TUN1	N1117051601.D	Tissue	05/16/17 10:27
Initial Cal Check	SFE0208-ICV1	N1117051602.D	Tissue	05/16/17 10:47
Blank	BFE0160-BLK1	N1117051603.D	Tissue	05/16/17 11:35
LCS	BFE0160-BS1	N1117051604.D	Tissue	05/16/17 12:11
PG-GP-OYS-COC-170424	17D0421-01	N1117051605.D	Tissue	05/16/17 12:48
PG-GP-COC-COC-170424	17D0421-02	N1117051606.D	Tissue	05/16/17 13:24
PG-WS-OYS-COC-170424	17D0421-04	N1117051608.D	Tissue	05/16/17 14:36
PG-WS-COC-COC-170425	17D0421-05	N1117051609.D	Tissue	05/16/17 15:13
PG-WS-LTN-COC-170424	17D0421-06	N1117051610.D	Tissue	05/16/17 15:49
PG-WS-MAN-COC-170424	17D0421-07	N1117051611.D	Tissue	05/16/17 16:26
PG-SMA3-GEO-COC-170426	17D0421-08	N1117051612.D	Tissue	05/16/17 17:02
PG-SMA3-DUNM-COC-170426	17D0421-09	N1117051613.D	Tissue	05/16/17 17:39
PG-SMA3-DUNH-COC-170426	17D0421-10	N1117051614.D	Tissue	05/16/17 18:15
ZZZZZ	17E0012-01	N1117051615.D	Tissue	05/16/17 18:52
ZZZZZ	17E0012-02	N1117051616.D	Tissue	05/16/17 19:28
ZZZZZ	17E0012-03	N1117051617.D	Tissue	05/16/17 20:04
ZZZZZ	17E0012-04	N1117051618.D	Tissue	05/16/17 20:40
ZZZZZ	17E0012-05	N1117051619.D	Tissue	05/16/17 21:16
ZZZZZ	17E0012-06	N1117051620.D	Tissue	05/16/17 21:53
SIM PAH 250	SFE0208-CCV1	N1117051621.D	Tissue	05/16/17 22:29

Port Gamble Shellfish Monitoring**17D0421**

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg)	Tissue	EPA 8270D-SIM

Checklist: Analyst Checklist-SVOA

#	Checklist Item	Response	Analyst Initials	Date
1	DFTPP abundance and time criteria met	YES	VTS	05/17/2017
2	DDT Breakdown <20% and Peak Tailing <=2	YES	VTS	05/17/2017
3	ICV/CCV Meets %D	YES	VTS	05/17/2017
4	ICAL/ICV/CCV Q Flag - NONE required	YES	VTS	05/17/2017
5	Internal Standard areas within 50-200%	YES	VTS	05/17/2017
6	Retention times within windows and Coelution summary checked	YES	VTS	05/17/2017
7	Manual integrations include summary and before/after pictures	YES	VTS	05/17/2017
8	Project specific requirements have been met	YES	VTS	05/17/2017
9	Sample dilution factors have been correctly applied	NA	VTS	05/17/2017
10	AUTOCHECK: Blank checked for exceedence of criteria	YES *	VTS	05/17/2017
11	AUTOCHECK: Check blank spike recovery	YES *	VTS	05/17/2017
12	AUTOCHECK: Check blank spike/blank spike duplicate RPD. If exceeded include outliers in exception report.	NA *	VTS	05/17/2017
13	AUTOCHECK: Compounds in method designated as blank spike compounds are present	YES *	VTS	05/17/2017
14	AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	VTS	05/17/2017
15	AUTOCHECK: Matrix spike recoveries within limits	NA *	VTS	05/17/2017
16	AUTOCHECK: Matrix spike/matrix spike duplicate RPD within limits	NA *	VTS	05/17/2017
17	AUTOCHECK: List of compounds listed as spiked are present	NA *	VTS	05/17/2017
18	AUTOCHECK: Check SRM limits for exceedance	NA *	VTS	05/17/2017
19	AUTOCHECK: Check Surrogate recoveries	YES *	VTS	05/17/2017
20	AUTOCHECK: Checks Surrogate spike list against Analysis	YES *	VTS	05/17/2017
21	Analyst checklist completed (PEER)	YES	MW	05/17/2017
22	Data is locked and Status is Analyzed (PEER)	YES	MW	05/17/2017
23	Data file, Calibration, Sequence, Batch, and Cleanup PDF's are attached (PEER)	YES	MW	05/17/2017
24	Color warnings have been addressed and (or) qualified (PEER)	YES	MW	05/17/2017
25	Qualifiers have been correctly added (PEER)	YES	MW	05/17/2017
26	Checklist completed and status is peer reviewed (REVIEWER)	NO	MW	05/17/2017
	Comments: <i>EXCEPTION REPORT REQUIRED</i>			
27	Dilutions are linear (50-200%) and appropriate (REVIEWER)	NA	MW	05/17/2017

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring

17D0421

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg)	Tissue	EPA 8270D-SIM

Checklist: Analyst Checklist-SVOA

#	Checklist Item	Response	Analyst Initials	Date
28	All requested samples have been reported (REVIEWER)	YES	MW	05/17/2017
29	Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	MW	05/17/2017
30	List of samples in this sequence that will require additional runs-verify reshot created (ANALYST) Comments: <i>Sample 17D0421-03 was mis-injected. Rerun with next queue.</i>	YES	VTS	05/17/2017
31	List of samples in this sequence that are re-analysis or dilutions of samples (ANALYST)	NA	VTS	05/17/2017
32	Additional Notes (ANALYST, PEER, and REVIEWER)	NA	VTS	05/17/2017



ANALYSIS SEQUENCE

SFE0208

Instrument: NT11 Element Column ID: E006481
Calibration ID: AE00020 Tune File: 170505.U
EM Voltage: 2106

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	
SFE0208-TUN1	DFTPP	QC		1	E007446		
SFE0208-ICV1	Initial Cal Check	QC		2	E006577	F004122	
BFE0160-BLK1	Blank	QC		3		F004122	
BFE0160-BS1	LCS	QC		4		F004122	
17D0421-01	PG-GP-OYS-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	5		F004122	
17D0421-02	PG-GP-COC-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	6		F004122	
17D0421-04	PG-WS-OYS-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	7		F004122	
17D0421-05	PG-WS-COC-COC-170425	SIM PAH Low (0.01 ug/L - 0.	A 01	8		F004122	
17D0421-06	PG-WS-LTN-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	9		F004122	
17D0421-07	PG-WS-MAN-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	10		F004122	
17D0421-08	PG-SMA3-GEO-COC-170426	SIM PAH Low (0.01 ug/L - 0.	A 01	11		F004122	
17D0421-09	PG-SMA3-DUNM-COC-170426	SIM PAH Low (0.01 ug/L - 0.	A 01	12		F004122	
17D0421-10	PG-SMA3-DUNH-COC-170426	SIM PAH Low (0.01 ug/L - 0.	A 01	13		F004122	
17E0012-01	PG-PJ-OYS-COC-170427	SIM PAH Low (0.01 ug/L - 0.	A 01	14		F004122	
17E0012-02	PG-PJ-COC-COC-170427	SIM PAH Low (0.01 ug/L - 0.	A 01	15		F004122	
17E0012-03	PG-PJ-LTN-COC-170427	SIM PAH Low (0.01 ug/L - 0.	A 01	16		F004122	
17E0012-04	PG-PJ-MAN-COC-170427	SIM PAH Low (0.01 ug/L - 0.	A 01	17		F004122	
17E0012-05	PG-PJ-HC-COC-170428	SIM PAH Low (0.01 ug/L - 0.	A 01	18		F004122	
17E0012-06	PG-PJ-MUS-COC-170427	SIM PAH Low (0.01 ug/L - 0.	A 01	19		F004122	
SFE0208-CCV1	SIM PAH 250	QC		20	E006577	F004122	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170516.b

Time	Filename	LabID	ClientID	DF										
21	2229	N117051621.D	SFE0208-CCV1	1	8.50	460642	11.53	189329	14.22	292237	18.98	221244	22.16	264364

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170516.b

ARI Job No.: SFE0 Method: DFTPP.m Instrument: nt11.i Date: 16-MAY-2017

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1027	N1117051601.D	SFE0208-TUN1		1	NO MANUAL INTEGRATION
1047	N1117051602.D	SFE0208-ICV1		1	NO MANUAL INTEGRATION
1135	N1117051603.D	BFE0160-BLK1		1	NO MANUAL INTEGRATION
1211	N1117051604.D	BFE0160-BS1		1	NO MANUAL INTEGRATION
1248	N1117051605.D	17D0421-01		1	Acenaphthene,
1324	N1117051606.D	17D0421-02		1	NO MANUAL INTEGRATION
1400	N1117051607.D	17D0421-03		1	NO MANUAL INTEGRATION
1436	N1117051608.D	17D0421-04		1	Acenaphthene, Acenaphthene-d10,
1513	N1117051609.D	17D0421-05		1	NO MANUAL INTEGRATION
1549	N1117051610.D	17D0421-06		1	NO MANUAL INTEGRATION
1626	N1117051611.D	17D0421-07		1	NO MANUAL INTEGRATION
1702	N1117051612.D	17D0421-08		1	NO MANUAL INTEGRATION
1739	N1117051613.D	17D0421-09		1	NO MANUAL INTEGRATION
1815	N1117051614.D	17D0421-10		1	Acenaphthylene, Acenaphthene,
1852	N1117051615.D	17E0012-01		1	Acenaphthene,
1928	N1117051616.D	17E0012-02		1	NO MANUAL INTEGRATION
2000	N1117051617.D	17E0012-03		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170516.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2040	N117051618.D	17E0012-04		1	NO MANUAL INTEGRATION
2116	N117051619.D	17E0012-05		1	NO MANUAL INTEGRATION
2153	N117051620.D	17E0012-06		1	NO MANUAL INTEGRATION
2229	N117051621.D	SFE0208-CCV1		1	NO MANUAL INTEGRATION



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0225

Instrument: NT11

Calibration: AE00020

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DFTPP	SFE0225-TUN1	N1117051701.D	Tissue	05/17/17 08:41
Initial Cal Check	SFE0225-ICV1	N1117051702.D	Tissue	05/17/17 09:02
PG-GP-LTN-COC-170424	17D0421-03	N1117051703.D	Tissue	05/17/17 09:43
SIM PAH 250	SFE0225-CCV1	N1117051704.D	Tissue	05/17/17 10:19

Port Gamble Shellfish Monitoring**17D0421**

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg)	Tissue	EPA 8270D-SIM

Checklist: Analyst Checklist-SVOA

#	Checklist Item	Response	Analyst Initials	Date
1	DFTPP abundance and time criteria met	YES	VTS	05/17/2017
2	DDT Breakdown <20% and Peak Tailing <=2	YES	VTS	05/17/2017
3	ICV/CCV Meets %D	YES	VTS	05/17/2017
4	ICAL/ICV/CCV Q Flag - NONE required	YES	VTS	05/17/2017
5	Internal Standard areas within 50-200%	YES	VTS	05/17/2017
6	Retention times within windows and Coelution summary checked	YES	VTS	05/17/2017
7	Manual integrations include summary and before/after pictures	YES	VTS	05/17/2017
8	Project specific requirements have been met	YES	VTS	05/17/2017
9	Sample dilution factors have been correctly applied	NA	VTS	05/17/2017
10	AUTOCHECK: Blank checked for exceedence of criteria Comments: <i>No blanks were analyzed.</i>	NR *	VTS	05/17/2017
11	AUTOCHECK: Check blank spike recovery	YES *	VTS	05/17/2017
12	AUTOCHECK: Check blank spike/blank spike duplicate RPD. If exceeded include outliers in exception report.	NA *	VTS	05/17/2017
13	AUTOCHECK: Compounds in method designated as blank spike compounds are present	YES *	VTS	05/17/2017
14	AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	VTS	05/17/2017
15	AUTOCHECK: Matrix spike recoveries within limits	NA *	VTS	05/17/2017
16	AUTOCHECK: Matrix spike/matrix spike duplicate RPD within limits	NA *	VTS	05/17/2017
17	AUTOCHECK: List of compounds listed as spiked are present	NA *	VTS	05/17/2017
18	AUTOCHECK: Check SRM limits for exceedance	NA *	VTS	05/17/2017
19	AUTOCHECK: Check Surrogate recoveries	YES *	VTS	05/17/2017
20	AUTOCHECK: Checks Surrogate spike list against Analysis	YES *	VTS	05/17/2017
21	Analyst checklist completed (PEER)	YES	BB	05/17/2017
22	Data is locked and Status is Analyzed (PEER)	YES	BB	05/17/2017
23	Data file, Calibration, Sequence, Batch, and Cleanup PDF's are attached (PEER)	YES	BB	05/17/2017
24	Color warnings have been addressed and (or) qualified (PEER)	YES	BB	05/17/2017
25	Qualifiers have been correctly added (PEER)	YES	BB	05/17/2017
26	Checklist completed and status is peer reviewed (REVIEWER)	YES	BB	05/17/2017
27	Dilutions are linear (50-200%) and appropriate (REVIEWER)	NA	BB	05/17/2017

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring**17D0421**

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
8270D-SIM PAH Low (0.01 ug/L - 0.5 ug/kg)	Tissue	EPA 8270D-SIM

Checklist: Analyst Checklist-SVOA

#	Checklist Item	Response	Analyst Initials	Date
28	All requested samples have been reported (REVIEWER)	YES	BB	05/17/2017
29	Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	BB	05/17/2017
30	List of samples in this sequence that will require additional runs-verify reshot created (ANALYST)	NA	VTS	05/17/2017
31	List of samples in this sequence that are re-analysis or dilutions of samples (ANALYST)	YES	VTS	05/17/2017
	Comments: <i>17D0421-03 was rean due to a mis-injection in the first queue.</i>			
32	Additional Notes (ANALYST, PEER, and REVIEWER)	NA	VTS	05/17/2017



ANALYSIS SEQUENCE

SFE0225

Instrument: NT11 Element Column ID: E006481
Calibration ID: AE00020 Tune File: 170505.U
EM Voltage: 2106

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	
SFE0225-TUN1	DFTPP	QC		1	E007446		
SFE0225-ICV1	Initial Cal Check	QC		2	E006577	F004122	
17D0421-03	PG-GP-LTN-COC-170424	SIM PAH Low (0.01 ug/L - 0.	A 01	3		F004122	
SFE0225-CCV1	SIM PAH 250	QC		4	E006577	F004122	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170517.b

Time	Filename	LabID	ClientID	DF																
1	0841	N1117051701.D	SFE0225-TUN1	1	NO	ISTDS	FOUND													
2	0902	N1117051702.D	SFE0225-ICV1	1	8.50	460953	11.53	191567	14.22	300472	18.98	225397	122.16	269368						
3	0943	N1117051703.D	17D0421-03	1	8.49	508505	11.53	212651	14.22	333565	18.98	210634	122.16	262684						
4	1019	N1117051704.D	SFE0225-CCV1	1	8.50	482347	11.53	198365	14.22	309662	18.98	218816	122.16	257675						

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt11.i\20170517.b

ARI Job No.: SFEO Method: DFTPP.m Instrument: nt11.i Date: 17-MAY-2017

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
0841	N1117051701.D	SFE0225-TUN1		1	NO MANUAL INTEGRATION
0902	N1117051702.D	SFE0225-ICV1		1	NO MANUAL INTEGRATION
0943	N1117051703.D	I7D0421-03		1	NO MANUAL INTEGRATION
1019	N1117051704.D	SFE0225-CCV1		1	NO MANUAL INTEGRATION



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Sequence: SFE0208
Calibration: AE00020

SDG/WO: 17D0421
Project: Port Gamble Shellfish Monitoring
Instrument: NT11
Calibration Date: 05/05/2017

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SFE0208-ICV1 (Tissue) Lab File ID: N1117051602.D Analyzed: 05/16/17 10:47								
2-Methylnaphthalene-d10	250.00	94.0	80 - 120	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	250.00	92.0	80 - 120	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	250.00	100	80 - 120	16.338	16.338	0.0000	N/A	
BFE0160-BLK1 (Tissue) Lab File ID: N1117051603.D Analyzed: 05/16/17 11:35								
2-Methylnaphthalene-d10	15.000	52.7	30 - 160	9.467	9.478667	-0.0117	N/A	
Dibenzo[a,h]anthracene-d14	15.000	72.8	30 - 160	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	15.000	77.7	30 - 160	16.339	16.338	0.0010	N/A	
BFE0160-BS1 (Tissue) Lab File ID: N1117051604.D Analyzed: 05/16/17 12:11								
2-Methylnaphthalene-d10	15.000	50.7	30 - 160	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	15.000	74.8	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	15.000	77.1	30 - 160	16.329	16.338	-0.0090	N/A	
17D0421-01 (Tissue) Lab File ID: N1117051605.D Analyzed: 05/16/17 12:48								
2-Methylnaphthalene-d10	14.940	61.8	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.940	62.5	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	14.940	70.4	30 - 160	16.329	16.338	-0.0090	N/A	
17D0421-02 (Tissue) Lab File ID: N1117051606.D Analyzed: 05/16/17 13:24								
2-Methylnaphthalene-d10	15.000	56.5	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	15.000	75.5	30 - 160	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	15.000	74.6	30 - 160	16.338	16.338	0.0000	N/A	
17D0421-04 (Tissue) Lab File ID: N1117051608.D Analyzed: 05/16/17 14:36								
2-Methylnaphthalene-d10	14.822	65.0	30 - 160	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	14.822	68.2	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	14.822	81.7	30 - 160	16.338	16.338	0.0000	N/A	
17D0421-05 (Tissue) Lab File ID: N1117051609.D Analyzed: 05/16/17 15:13								
2-Methylnaphthalene-d10	14.896	58.3	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.896	69.8	30 - 160	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	14.896	74.2	30 - 160	16.338	16.338	0.0000	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Sequence: SFE0208
Calibration: AE00020

SDG/WO: 17D0421
Project: Port Gamble Shellfish Monitoring
Instrument: NT11
Calibration Date: 05/05/2017

Surrogate Compound	Spike Level ug/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
17D0421-06 (Tissue) Lab File ID: N1117051610.D Analyzed: 05/16/17 15:49								
2-Methylnaphthalene-d10	14.911	54.2	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.911	74.4	30 - 160	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	14.911	72.0	30 - 160	16.329	16.338	-0.0090	N/A	
17D0421-07 (Tissue) Lab File ID: N1117051611.D Analyzed: 05/16/17 16:26								
2-Methylnaphthalene-d10	14.735	56.5	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.735	71.7	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	14.735	71.5	30 - 160	16.338	16.338	0.0000	N/A	
17D0421-08 (Tissue) Lab File ID: N1117051612.D Analyzed: 05/16/17 17:02								
2-Methylnaphthalene-d10	14.793	58.0	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.793	74.0	30 - 160	25.016	25.027	-0.0110	N/A	
Fluoranthene-d10	14.793	72.4	30 - 160	16.329	16.338	-0.0090	N/A	
17D0421-09 (Tissue) Lab File ID: N1117051613.D Analyzed: 05/16/17 17:39								
2-Methylnaphthalene-d10	14.634	59.1	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.634	77.8	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	14.634	75.8	30 - 160	16.329	16.338	-0.0090	N/A	
17D0421-10 (Tissue) Lab File ID: N1117051614.D Analyzed: 05/16/17 18:15								
2-Methylnaphthalene-d10	14.911	59.3	30 - 160	9.466	9.478667	-0.0127	N/A	
Dibenzo[a,h]anthracene-d14	14.911	49.7	30 - 160	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	14.911	73.6	30 - 160	16.338	16.338	0.0000	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270D-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG/WO: <u>17D0421</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Sequence: <u>SFE0225</u>	Instrument: <u>NT11</u>
Calibration: <u>AE00020</u>	Calibration Date: <u>05/05/2017</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SFE0225-ICV1 (Tissue)			Lab File ID: N1117051702.D			Analyzed: 05/17/17 09:02		
2-Methylnaphthalene-d10	250.00	96.0	80 - 120	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	250.00	93.6	80 - 120	25.005	25.027	-0.0220	N/A	
Fluoranthene-d10	250.00	99.6	80 - 120	16.338	16.338	0.0000	N/A	
17D0421-03 (Tissue)			Lab File ID: N1117051703.D			Analyzed: 05/17/17 09:43		
2-Methylnaphthalene-d10	14.925	57.9	30 - 160	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	14.925	80.6	30 - 160	24.994	25.027	-0.0330	N/A	
Fluoranthene-d10	14.925	79.8	30 - 160	16.329	16.338	-0.0090	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270D-SIM

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG/WO:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Sequence:	<u>SFE0059</u>	Instrument:	<u>NT11</u>
Calibration:	<u>AE00020</u>	Calibration Date:	<u>05/05/2017</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SFE0059-ICV1 (Water)		Lab File ID: 17050503ICV.D				Analyzed: 05/05/17 11:47		
2-Methylnaphthalene-d10	250.00	100	80 - 120	9.477	9.478667	-0.0017	N/A	
Dibenzo[a,h]anthracene-d14	250.00	99.6	80 - 120	25.027	25.027	0.0000	N/A	
Fluoranthene-d10	250.00	103	80 - 120	16.338	16.338	0.0000	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0059

Instrument: NT11

Calibration: AE00020

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SFE0059-ICV1)		(Water)	Lab File ID: 17050503ICV.D			Analyzed: 05/05/17 11:47			
Naphthalene-d8	371325	8.499	371325	8.499	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	154428	11.537	154428	11.537	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	256956	14.23	256956	14.23	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	208629	18.991	208629	18.991	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	225431	22.182	225431	22.182	100	50 - 200	0.0000	+/-0.50	
Secondary Cal Check (SFE0059-SCV1)		(Water)	Lab File ID: 17050509.D			Analyzed: 05/05/17 15:23			
Naphthalene-d8	353470	8.499	371325	8.499	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	145863	11.537	154428	11.537	94	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	234202	14.23	256956	14.23	91	50 - 200	0.0000	+/-0.50	
Chrysene-d12	189686	18.991	208629	18.991	91	50 - 200	0.0000	+/-0.50	
Perylene-d12	205114	22.183	225431	22.182	91	50 - 200	-0.0010	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0208

Instrument: NT11

Calibration: AE00020

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SFE0208-ICV1)		(Tissue)	Lab File ID: N1117051602.D			Analyzed: 05/16/17 10:47			
Naphthalene-d8	423503	8.5	371325	8.499	114	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	166673	11.528	154428	11.537	108	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	246299	14.22	256956	14.23	96	50 - 200	0.0100	+/-0.50	
Chrysene-d12	183065	18.983	208629	18.991	88	50 - 200	0.0080	+/-0.50	
Perylene-d12	213687	22.173	225431	22.182	95	50 - 200	0.0090	+/-0.50	
Blank (BFE0160-BLK1)		(Tissue)	Lab File ID: N1117051603.D			Analyzed: 05/16/17 11:35			
Naphthalene-d8	447653	8.491	371325	8.499	121	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	173441	11.528	154428	11.537	112	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	275907	14.22	256956	14.23	107	50 - 200	0.0100	+/-0.50	
Chrysene-d12	182854	18.983	208629	18.991	88	50 - 200	0.0080	+/-0.50	
Perylene-d12	206286	22.173	225431	22.182	92	50 - 200	0.0090	+/-0.50	
LCS (BFE0160-BS1)		(Tissue)	Lab File ID: N1117051604.D			Analyzed: 05/16/17 12:11			
Naphthalene-d8	418761	8.491	371325	8.499	113	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	168457	11.528	154428	11.537	109	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	269247	14.22	256956	14.23	105	50 - 200	0.0100	+/-0.50	
Chrysene-d12	178990	18.983	208629	18.991	86	50 - 200	0.0080	+/-0.50	
Perylene-d12	203014	22.173	225431	22.182	90	50 - 200	0.0090	+/-0.50	
PG-GP-OYS-COC-170424 (17D0421-01)		(Tissue)	Lab File ID: N1117051605.D			Analyzed: 05/16/17 12:48			
Naphthalene-d8	438404	8.481	371325	8.499	118	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	178201	11.519	154428	11.537	115	50 - 200	0.0180	+/-0.50	
Phenanthrene-d10	271028	14.22	256956	14.23	105	50 - 200	0.0100	+/-0.50	
Chrysene-d12	173174	18.983	208629	18.991	83	50 - 200	0.0080	+/-0.50	
Perylene-d12	237101	22.173	225431	22.182	105	50 - 200	0.0090	+/-0.50	
PG-GP-COC-COC-170424 (17D0421-02)		(Tissue)	Lab File ID: N1117051606.D			Analyzed: 05/16/17 13:24			
Naphthalene-d8	437443	8.49	371325	8.499	118	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	181755	11.528	154428	11.537	118	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	283234	14.22	256956	14.23	110	50 - 200	0.0100	+/-0.50	
Chrysene-d12	167446	18.983	208629	18.991	80	50 - 200	0.0080	+/-0.50	
Perylene-d12	208070	22.173	225431	22.182	92	50 - 200	0.0090	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0208

Instrument: NT11

Calibration: AE00020

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PG-WS-OYS-COC-170424 (17D0421-04)		(Tissue)	Lab File ID: N1117051608.D			Analyzed: 05/16/17 14:36			
Naphthalene-d8	436687	8.491	371325	8.499	118	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	181820	11.528	154428	11.537	118	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	276664	14.22	256956	14.23	108	50 - 200	0.0100	+/-0.50	
Chrysene-d12	182183	18.983	208629	18.991	87	50 - 200	0.0080	+/-0.50	
Perylene-d12	244648	22.173	225431	22.182	109	50 - 200	0.0090	+/-0.50	
PG-WS-COC-COC-170425 (17D0421-05)		(Tissue)	Lab File ID: N1117051609.D			Analyzed: 05/16/17 15:13			
Naphthalene-d8	436733	8.481	371325	8.499	118	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	183301	11.519	154428	11.537	119	50 - 200	0.0180	+/-0.50	
Phenanthrene-d10	296284	14.22	256956	14.23	115	50 - 200	0.0100	+/-0.50	
Chrysene-d12	180048	18.983	208629	18.991	86	50 - 200	0.0080	+/-0.50	
Perylene-d12	222382	22.173	225431	22.182	99	50 - 200	0.0090	+/-0.50	
PG-WS-LTN-COC-170424 (17D0421-06)		(Tissue)	Lab File ID: N1117051610.D			Analyzed: 05/16/17 15:49			
Naphthalene-d8	441679	8.481	371325	8.499	119	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	180539	11.519	154428	11.537	117	50 - 200	0.0180	+/-0.50	
Phenanthrene-d10	283851	14.22	256956	14.23	110	50 - 200	0.0100	+/-0.50	
Chrysene-d12	169084	18.983	208629	18.991	81	50 - 200	0.0080	+/-0.50	
Perylene-d12	210132	22.173	225431	22.182	93	50 - 200	0.0090	+/-0.50	
PG-WS-MAN-COC-170424 (17D0421-07)		(Tissue)	Lab File ID: N1117051611.D			Analyzed: 05/16/17 16:26			
Naphthalene-d8	456040	8.481	371325	8.499	123	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	191367	11.528	154428	11.537	124	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	296883	14.22	256956	14.23	116	50 - 200	0.0100	+/-0.50	
Chrysene-d12	181253	18.983	208629	18.991	87	50 - 200	0.0080	+/-0.50	
Perylene-d12	232662	22.173	225431	22.182	103	50 - 200	0.0090	+/-0.50	
PG-SMA3-GEO-COC-170426 (17D0421-08)		(Tissue)	Lab File ID: N1117051612.D			Analyzed: 05/16/17 17:02			
Naphthalene-d8	453794	8.481	371325	8.499	122	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	190580	11.519	154428	11.537	123	50 - 200	0.0180	+/-0.50	
Phenanthrene-d10	292764	14.22	256956	14.23	114	50 - 200	0.0100	+/-0.50	
Chrysene-d12	178528	18.983	208629	18.991	86	50 - 200	0.0080	+/-0.50	
Perylene-d12	234260	22.173	225431	22.182	104	50 - 200	0.0090	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0208

Instrument: NT11

Calibration: AE00020

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
PG-SMA3-DUNM-COC-170426 (17D0421-09)		(Tissue)	Lab File ID: N1117051613.D			Analyzed: 05/16/17 17:39			
Naphthalene-d8	457636	8.481	371325	8.499	123	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	192940	11.528	154428	11.537	125	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	297733	14.22	256956	14.23	116	50 - 200	0.0100	+/-0.50	
Chrysene-d12	180124	18.983	208629	18.991	86	50 - 200	0.0080	+/-0.50	
Perylene-d12	227858	22.173	225431	22.182	101	50 - 200	0.0090	+/-0.50	
PG-SMA3-DUNH-COC-170426 (17D0421-10)		(Tissue)	Lab File ID: N1117051614.D			Analyzed: 05/16/17 18:15			
Naphthalene-d8	464123	8.481	371325	8.499	125	50 - 200	0.0180	+/-0.50	
Acenaphthene-d10	192309	11.528	154428	11.537	125	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	301685	14.22	256956	14.23	117	50 - 200	0.0100	+/-0.50	
Chrysene-d12	212715	18.991	208629	18.991	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	275692	22.173	225431	22.182	122	50 - 200	0.0090	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0225

Instrument: NT11

Calibration: AE00020

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SFE0225-ICV1)		(Tissue)	Lab File ID: N1117051702.D			Analyzed: 05/17/17 09:02			
Naphthalene-d8	460933	8.499	371325	8.499	124	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	191567	11.528	154428	11.537	124	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	300472	14.22	256956	14.23	117	50 - 200	0.0100	+/-0.50	
Chrysene-d12	225397	18.983	208629	18.991	108	50 - 200	0.0080	+/-0.50	
Perylene-d12	269368	22.163	225431	22.182	119	50 - 200	0.0190	+/-0.50	
PG-GP-LTN-COC-170424 (17D0421-03)		(Tissue)	Lab File ID: N1117051703.D			Analyzed: 05/17/17 09:43			
Naphthalene-d8	508505	8.49	371325	8.499	137	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	212651	11.528	154428	11.537	138	50 - 200	0.0090	+/-0.50	
Phenanthrene-d10	333565	14.22	256956	14.23	130	50 - 200	0.0100	+/-0.50	
Chrysene-d12	210634	18.983	208629	18.991	101	50 - 200	0.0080	+/-0.50	
Perylene-d12	262684	22.163	225431	22.182	117	50 - 200	0.0190	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PG-GP-OYS-COC-170424 17D0421-01	04/24/17 10:30	04/26/17 17:05	05/09/17 13:50	15	365	05/16/17 12:48	7	40	
PG-GP-COC-COC-170424 17D0421-02	04/24/17 10:45	04/26/17 17:05	05/09/17 13:50	15	365	05/16/17 13:24	7	40	
PG-GP-LTN-COC-170424 17D0421-03	04/24/17 11:00	04/26/17 17:05	05/09/17 13:50	15	365	05/17/17 09:43	8	40	
PG-WS-OYS-COC-170424 17D0421-04	04/24/17 11:30	04/26/17 17:05	05/09/17 13:50	15	365	05/16/17 14:36	7	40	
PG-WS-COC-COC-170425 17D0421-05	04/25/17 11:00	04/26/17 17:05	05/09/17 13:50	14	365	05/16/17 15:13	7	40	
PG-WS-LTN-COC-170424 17D0421-06	04/24/17 12:00	04/26/17 17:05	05/09/17 13:50	15	365	05/16/17 15:49	7	40	
PG-WS-MAN-COC-170424 17D0421-07	04/24/17 12:45	04/26/17 17:05	05/09/17 13:50	15	365	05/16/17 16:26	7	40	
PG-SMA3-GEO-COC-170426 17D0421-08	04/26/17 07:00	04/26/17 17:05	05/09/17 13:50	13	365	05/16/17 17:02	7	40	
PG-SMA3-DUNM-COC-170426 17D0421-09	04/26/17 12:00	04/26/17 17:05	05/09/17 13:50	13	365	05/16/17 17:39	7	40	
PG-SMA3-DUNH-COC-170426 17D0421-10	04/26/17 12:15	04/26/17 17:05	05/09/17 13:50	13	365	05/16/17 18:15	7	40	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Instrument: NT11

Analyte	MDL	RL	Units
Naphthalene	0.50	0.60	ug/kg
2-Methylnaphthalene	0.50	0.50	ug/kg
Acenaphthylene	0.50	0.50	ug/kg
Acenaphthene	0.50	0.50	ug/kg
Fluorene	0.50	0.50	ug/kg
Phenanthrene	0.50	0.50	ug/kg
Anthracene	0.50	0.50	ug/kg
Fluoranthene	0.50	0.50	ug/kg
Pyrene	0.50	0.50	ug/kg
Benzo(a)anthracene	0.50	0.50	ug/kg
Chrysene	0.50	0.50	ug/kg
Benzo(b)fluoranthene	0.50	0.50	ug/kg
Benzo(k)fluoranthene	0.50	0.50	ug/kg
Benzo(e)pyrene	0.50	0.50	ug/kg
Benzo(a)pyrene	0.50	0.50	ug/kg
Indeno(1,2,3-cd)pyrene	0.50	0.50	ug/kg
Dibenzo(a,h)anthracene	0.50	0.50	ug/kg
Benzo(g,h,i)perylene	0.50	0.50	ug/kg
Perylene	0.50	0.50	ug/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 8270D-SIM

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Water

Instrument: NT11

Analyte	MDL	RL	Units
Naphthalene	0.001	0.010	ug/L
2-Methylnaphthalene	0.001	0.010	ug/L
1-Methylnaphthalene	0.0009	0.010	ug/L
2-Chloronaphthalene	0.001	0.010	ug/L
Acenaphthylene	0.002	0.010	ug/L
Acenaphthene	0.003	0.010	ug/L
Dibenzofuran	0.002	0.010	ug/L
Fluorene	0.002	0.010	ug/L
Phenanthrene	0.001	0.010	ug/L
Anthracene	0.001	0.010	ug/L
Carbazole	0.001	0.010	ug/L
Fluoranthene	0.002	0.010	ug/L
Pyrene	0.001	0.010	ug/L
Benzo(a)anthracene	0.0008	0.010	ug/L
Chrysene	0.0009	0.010	ug/L
Benzo(b)fluoranthene	0.0005	0.010	ug/L
Benzo(k)fluoranthene	0.003	0.010	ug/L
Benzo(j)fluoranthene	0.002	0.010	ug/L
Benzo(a)fluoranthene, Total	0.004	0.010	ug/L
Benzo(a)pyrene	0.002	0.010	ug/L
Perylene	0.006	0.010	ug/L
Indeno(1,2,3-cd)pyrene	0.001	0.010	ug/L
Dibenzo(a,h)anthracene	0.001	0.010	ug/L
Benzo(g,h,i)perylene	0.001	0.010	ug/L



Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-01 File ID: 17052206
 Sampled: 04/24/17 10:30 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 13:50
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.02 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.060	0.655-0.886		0.998	0.378	ng/kg	EMPC, J, B
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.084	0.998	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	1.466	1.318-1.783		4.99	0.280	ng/kg	J, B
57117-31-4	2,3,4,7,8-PeCDF	1	1.234	1.318-1.783		4.99	0.275	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	1.512	1.318-1.783		4.99	0.385	ng/kg	J, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.251	1.054-1.426		4.99	0.322	ng/kg	J, B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.138	1.054-1.426		4.99	0.361	ng/kg	J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.257	1.054-1.426		4.99	0.432	ng/kg	J, B
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.717	1.054-1.426		4.99	0.582	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.240	1.054-1.426		4.99	0.389	ng/kg	J, B
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.182	1.054-1.426		4.99	0.453	ng/kg	J, B
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.267	1.054-1.426		4.99	0.657	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.128	0.893-1.208		4.99	0.775	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.089	0.893-1.208		4.99	0.582	ng/kg	J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.910	0.893-1.208		4.99	1.89	ng/kg	J, B
39001-02-0	OCDF	1	0.916	0.757-1.024		9.98	1.79	ng/kg	J, B
3268-87-9	OCDD	1	0.884	0.757-1.024		9.98	15.3	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	4.11	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	1.51	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	1.77	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	1.19	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	2.02	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	2.60	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	1.89	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	6.59	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.871
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.871



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-01</u>
Sampled:	<u>04/24/17 10:30</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052206</u>
		Analyzed:	<u>05/22/17 13:50</u>
		Initial/Final:	<u>10.02 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.798	0.655-0.886		45.5	24 - 169 %	
13C12-2,3,7,8-TCDD		0.775	0.655-0.886		45.3	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.605	1.318-1.783		39.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.594	1.318-1.783		42.3	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.635	1.318-1.783		42.2	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.523	0.434-0.587		46.1	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.546	0.434-0.587		45.2	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.533	0.434-0.587		45.3	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.533	0.434-0.587		38.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.324	1.054-1.426		46.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.269	1.054-1.426		46.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.440	0.374-0.506		42.3	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.442	0.374-0.506		44.2	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.049	0.893-1.208		49.3	23 - 140 %	
13C12-OCDD		0.909	0.757-1.024		42.6	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			88.8	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb **18 May 2017 15:01:42**
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb **19 May 2017 13:57:26**

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.988	1.001	1.962e3	1.851e3	1.018	1.060	0.770	1417	2889	2.48e4	2.46e4	17.5	YES	YES	dd	bb	0.189
12378-PeCDF	30.145	1.001	1.395e3	9.519e2	0.977	1.466	1.550	2410	2126	2.25e4	1.41e4	9.4	YES	NO	bb	bb	0.140
23478-PeCDF	31.472	1.001	1.378e3	1.117e3	1.019	1.234	1.550	2410	2126	2.32e4	2.43e4	9.6	YES	YES	bb	bb	0.138
123478-HxCDF	35.144	1.001	1.284e3	1.026e3	1.150	1.251	1.240	2348	1792	2.05e4	1.50e4	8.7	YES	NO	bd	bd	0.162
234678-HxCDF	36.251	1.001	1.648e3	1.311e3	1.188	1.257	1.240	2348	1792	2.33e4	2.06e4	9.9	YES	NO	bd	bb	0.217
123678-HxCDF	35.308	1.001	1.492e3	1.311e3	1.100	1.138	1.240	2348	1792	2.19e4	1.99e4	9.3	YES	NO	db	db	0.181
123789-HxCDF	37.402	1.001	1.655e3	9.640e2	1.116	1.717	1.240	2348	1792	2.43e4	1.74e4	10.4	YES	YES	bd	MM	0.292
1234678-HpCDF	39.463	1.001	2.465e3	2.186e3	1.238	1.128	1.050	1162	1131	3.58e4	3.28e4	30.8	YES	NO	bb	bb	0.388
1234789-HpCDF	42.148	1.000	1.297e3	1.191e3	1.257	1.089	1.050	1162	1131	1.65e4	1.41e4	14.2	YES	NO	bb	MM	0.292
OCDF	47.438	1.007	2.852e3	3.113e3	1.321	0.916	0.890	858	1161	2.84e4	3.35e4	33.0	YES	NO	bb	MM	0.895
2378-TCDD					1.244		0.770	1369	1171								
12378-PeCDD	31.724	1.001	1.148e3	7.594e2	1.058	1.512	0.770	2014	1177	1.77e4	1.32e4	8.8	YES	NO	bb	db	0.193
123478-HxCDD	36.382	1.001	1.005e3	8.101e2	1.119	1.240	1.240	2078	1567	1.91e4	1.27e4	9.2	YES	NO	bd	MM	0.195
123678-HxCDD	36.514	1.001	1.201e3	1.016e3	1.040	1.182	1.240	2078	1567	1.99e4	1.88e4	9.6	YES	NO	db	dd	0.227
123789-HxCDD	36.952	1.013	1.598e3	1.261e3	0.981	1.267	1.240	2078	1567	2.40e4	1.94e4	11.5	YES	NO	db	dd	0.329
1234678-HpCDD	41.260	1.000	3.743e3	4.114e3	1.132	0.910	0.890	974	1488	4.72e4	4.95e4	48.5	YES	NO	bb	bb	0.949
OCDD	47.142	1.000	2.021e4	2.287e4	1.117	0.884	0.890	963	1107	1.89e5	2.03e5	196.5	YES	NO	bd	bb	7.647
13C-2378-TCDF	25.973	1.007	8.780e5	1.100e6	1.685	0.798	0.770	5934	3029	1.27e7	1.59e7	2143.8	YES	NO	bb	bb	45.531
13C-12378-PeCDF	30.112	1.167	1.058e6	6.588e5	1.706	1.605	1.550	3397	4102	1.48e7	9.23e6	4346.3	YES	NO	bd	bb	39.020
13C-23478-PeCDF	31.450	1.219	1.093e6	6.556e5	1.632	1.594	1.550	3397	4102	1.56e7	9.80e6	4598.8	YES	NO	bb	bb	42.259
13C-123478-HxCDF	35.122	0.951	4.273e5	8.165e5	1.682	0.523	0.510	3556	3739	6.29e6	1.20e7	1769.8	YES	NO	bd	bd	46.061
13C-123678-HxCDF	35.275	0.956	4.980e5	9.123e5	1.945	0.546	0.510	3556	3739	6.63e6	1.24e7	1864.1	YES	NO	db	db	45.161
13C-234678-HxCDF	36.229	0.981	3.998e5	7.502e5	1.582	0.533	0.510	3556	3739	5.50e6	1.02e7	1546.8	YES	NO	bb	bb	45.282
13C-123789-HxCDF	37.380	1.013	2.795e5	5.248e5	1.291	0.533	0.510	3556	3739	3.86e6	7.27e6	1085.1	YES	NO	bd	bb	38.819
13C-1234678-HpCDF	39.441	1.068	2.959e5	6.720e5	1.427	0.440	0.440	2480	2235	4.16e6	9.14e6	1676.7	YES	NO	bb	bd	42.269
13C-1234789-HpCDF	42.137	1.141	2.080e5	4.704e5	0.957	0.442	0.440	2480	2235	2.50e6	5.56e6	1006.9	YES	NO	bb	bd	44.166
13C-1234-TCDD	25.794	0.000	1.130e6	1.449e6	1.000	0.779	0.770	2637	1741	1.68e7	2.18e7	6378.6	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.601	1.031	4.453e5	5.743e5	0.873	0.775	0.770	2637	1741	6.33e6	8.15e6	2399.3	YES	NO	bb	bb	45.300
13C-12378-PeCDD	31.702	1.229	5.801e5	3.548e5	0.860	1.635	1.550	2264	1343	8.37e6	5.04e6	3699.1	YES	NO	bd	bd	42.152
13C-123478-HxCDD	36.361	0.985	4.741e5	3.581e5	1.114	1.324	1.240	2639	2362	6.69e6	4.94e6	2534.2	YES	NO	bd	bd	46.554
13C-123678-HxCDD	36.492	0.988	5.256e5	4.144e5	1.258	1.269	1.240	2639	2362	7.48e6	5.77e6	2825.7	YES	NO	db	db	46.531
13C-1234678-HpCDD	41.249	1.117	3.744e5	3.569e5	0.924	1.049	1.050	1835	1935	4.78e6	4.45e6	2604.5	YES	NO	bd	bd	49.323
13C-OCDD	47.124	1.276	4.805e5	5.285e5	0.738	0.909	0.890	1906	1672	4.58e6	5.00e6	2402.7	YES	NO	bd	bd	85.128
13C-123789-HxCDD	36.919	0.000	9.020e5	7.032e5	1.000	1.283	1.240	2639	2362	1.25e7	9.77e6	4731.5	YES	NO	bb	bb	100.000
Total-tetrafurans			1.771e4		1.018			1417		2.39e5							2.061

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1			1.126e3					1258		1.71e4							0.137
Total-pentafurans			7.253e3		0.998			2410		1.14e5							0.751
Total-hexafurans			7.102e3		1.138			2348		1.11e5							1.011
Total-heptafurans			5.093e3		1.248			1162		7.87e4							0.946
Total-Furans			4.138e4		1.138			1417		5.92e5							5.830
Total-tetradioxins			4.211e3		1.244			1369		6.50e4							0.759
Total-pentadioxins			3.631e3		1.058			2014		6.13e4							0.597
Total-hexadioxins			6.372e3		1.047			2078		1.06e5							1.305
Total-heptadioxins			1.399e4		1.132			974		1.71e5							3.301
Total-Dioxins			4.841e4		1.099			1369		5.92e5							13.608
Total-TEQ			8.979e4					1369		1.18e6							19.438
37CL-2378-TCDD	26.631	1.032	9.358e5		1.021			1464		1.29e7		8811.9	YES		bb		35.533
FUNCTION1 PFK			0.000e0					843617		0.00e0							0.000
FUNCTION2 PFK			9.984e4					155527		8.33e5							0.000
FUNCTION3 PFK			4.028e7					476143		2.98e8							0.000
FUNCTION4 PFK			4.422e6					352047		4.28e7							
FUNCTION5 PFK			3.687e4					232516		8.35e5							
FUNCTION1 HXCD...			3.993e4					764		5.39e5							0.000
FUNCTION1 HPCD...			3.635e3					804		5.57e4							0.000
FUNCTION2 HPCD...			8.720e2					1004		1.81e4							0.000
FUNCTION3 OCDPE			4.121e2					1078		1.11e4							0.000
FUNCTION4 NCDPE			2.707e3					1041		5.11e4							0.000
FUNCTION5 DCDPE			9.211e1					765		2.72e3							0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.26	9.268e2	1.621e3	1.018	0.57	0.77	10.2	YES	YES	db	dd	0.126
2	Total-tetrafurans	24.11	3.838e2	6.601e2	1.018	0.58	0.77	4.6	YES	YES	dd	dd	0.052
3	Total-tetrafurans	24.02	5.927e2	8.586e2	1.018	0.69	0.77	5.5	YES	NO	dd	dd	0.072
4	Total-tetrafurans	23.85	6.990e2	7.127e2	1.018	0.98	0.77	4.5	YES	YES	dd	dd	0.070
5	Total-tetrafurans	23.75	9.538e2	1.627e3	1.018	0.59	0.77	9.9	YES	YES	dd	dd	0.128
6	Total-tetrafurans	23.64	1.276e3	1.212e3	1.018	1.05	0.77	9.9	YES	YES	dd	dd	0.123
7	Total-tetrafurans	23.54	1.226e3	1.887e3	1.018	0.65	0.77	9.5	YES	YES	MM	MM	0.155
8	Total-tetrafurans	23.36	2.442e3	3.137e3	1.018	0.78	0.77	24.6	YES	NO	bd	bd	0.277
9	Total-tetrafurans	22.76	7.074e2	8.601e2	1.018	0.82	0.77	8.2	YES	NO	bb	bb	0.078
10	Total-tetrafurans	22.49	1.032e3	1.259e3	1.018	0.82	0.77	10.7	YES	NO	bb	bb	0.114
11	Total-tetrafurans	26.21	1.472e3	1.194e3	1.018	1.23	0.77	16.2	YES	YES	db	bb	0.132
12	2378-TCDF	25.99	1.962e3	1.851e3	1.018	1.06	0.77	17.5	YES	YES	dd	bb	0.189
13	Total-tetrafurans	25.70	3.428e2	5.284e2	1.018	0.65	0.77	4.4	YES	YES	bd	bd	0.043
14	Total-tetrafurans	25.33	7.388e2	1.053e3	1.018	0.70	0.77	7.5	YES	NO	bd	dd	0.089
15	Total-tetrafurans	25.09	4.000e2	8.222e2	1.018	0.49	0.77	4.1	YES	YES	bd	dd	0.061
16	Total-tetrafurans	24.91	1.377e3	2.221e3	1.018	0.62	0.77	11.9	YES	YES	db	dd	0.179
17	Total-tetrafurans	24.78	2.726e2	8.009e2	1.018	0.34	0.77	3.6	YES	YES	dd	dd	0.053
18	Total-tetrafurans	24.67	9.042e2	1.512e3	1.018	0.60	0.77	5.6	YES	YES	dd	dd	0.120

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.41	1.126e3	1.063e3		1.06	1.55	13.6	YES	YES	db	bb	0.137

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.47	1.378e3	1.117e3	1.019	1.23	1.55	9.6	YES	YES	bb	bb	0.138
2	12378-PeCDF	30.15	1.395e3	9.519e2	0.977	1.47	1.55	9.4	YES	NO	bb	bb	0.140
3	Total-pentafurans	28.98	3.478e3	3.294e3	0.998	1.06	1.55	22.5	YES	YES	bd	bb	0.388
4	Total-pentafurans	28.73	1.002e3	4.722e2	0.998	2.12	1.55	5.7	YES	YES	bb	bb	0.085

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.25	1.648e3	1.311e3	1.188	1.26	1.24	9.9	YES	NO	bd	bb	0.217
2	123678-HxCDF	35.31	1.492e3	1.311e3	1.100	1.14	1.24	9.3	YES	NO	db	db	0.181
3	123478-HxCDF	35.14	1.284e3	1.026e3	1.150	1.25	1.24	8.7	YES	NO	bd	bd	0.162
4	Total-hexafurans	34.50	3.360e2	6.749e2	1.138	0.50	1.24	3.8	YES	YES	bb	bb	0.077
5	Total-hexafurans	33.63	6.864e2	4.095e2	1.138	1.68	1.24	5.0	YES	YES	bb	MM	0.084
6	123789-HxCDF	37.40	1.655e3	9.640e2	1.116	1.72	1.24	10.4	YES	YES	bd	MM	0.292

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	40.27	1.154e3	1.154e3	1.248	1.00	1.05	18.1	YES	NO	MM	bb	0.225
2	Total-heptafurans	39.70	1.768e2	2.483e2	1.248	0.71	1.05	4.6	YES	YES	bb	bb	0.041
3	1234678-HpCDF	39.46	2.465e3	2.186e3	1.238	1.13	1.05	30.8	YES	NO	bb	bb	0.388
4	1234789-HpCDF	42.15	1.297e3	1.191e3	1.257	1.09	1.05	14.2	YES	NO	bb	MM	0.292

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.26	9.268e2	1.621e3	1.018	0.57	0.77	10.2	YES	YES	db	dd	0.126
2	Total-tetrafurans	24.11	3.838e2	6.601e2	1.018	0.58	0.77	4.6	YES	YES	dd	dd	0.052
3	Total-tetrafurans	24.02	5.927e2	8.586e2	1.018	0.69	0.77	5.5	YES	NO	dd	dd	0.072
4	Total-tetrafurans	23.85	6.990e2	7.127e2	1.018	0.98	0.77	4.5	YES	YES	dd	dd	0.070
5	Total-tetrafurans	23.75	9.538e2	1.627e3	1.018	0.59	0.77	9.9	YES	YES	dd	dd	0.128
6	Total-tetrafurans	23.64	1.276e3	1.212e3	1.018	1.05	0.77	9.9	YES	YES	dd	dd	0.123
7	Total-tetrafurans	23.54	1.226e3	1.887e3	1.018	0.65	0.77	9.5	YES	YES	MM	MM	0.155
8	Total-tetrafurans	23.36	2.442e3	3.137e3	1.018	0.78	0.77	24.6	YES	NO	bd	bd	0.277
9	Total-tetrafurans	22.76	7.074e2	8.601e2	1.018	0.82	0.77	8.2	YES	NO	bb	bb	0.078
10	Total-tetrafurans	22.49	1.032e3	1.259e3	1.018	0.82	0.77	10.7	YES	NO	bb	bb	0.114
11	Total-tetrafurans	26.21	1.472e3	1.194e3	1.018	1.23	0.77	16.2	YES	YES	db	bb	0.132
12	2378-TCDF	25.99	1.962e3	1.851e3	1.018	1.06	0.77	17.5	YES	YES	dd	bb	0.189
13	Total-tetrafurans	25.70	3.428e2	5.284e2	1.018	0.65	0.77	4.4	YES	YES	bd	bd	0.043
14	Total-tetrafurans	25.33	7.388e2	1.053e3	1.018	0.70	0.77	7.5	YES	NO	bd	dd	0.089
15	Total-tetrafurans	25.09	4.000e2	8.222e2	1.018	0.49	0.77	4.1	YES	YES	bd	dd	0.061
16	Total-tetrafurans	24.91	1.377e3	2.221e3	1.018	0.62	0.77	11.9	YES	YES	db	dd	0.179
17	Total-tetrafurans	24.78	2.726e2	8.009e2	1.018	0.34	0.77	3.6	YES	YES	dd	dd	0.053
18	Total-tetrafurans	24.67	9.042e2	1.512e3	1.018	0.60	0.77	5.6	YES	YES	dd	dd	0.120
19	Total-Furans	28.09	2.429e2	4.083e2	1.138	0.60	0.77	3.7	NO	YES	bd	bb	0.029
20	23478-PeCDF	31.47	1.378e3	1.117e3	1.019	1.23	1.55	9.6	YES	YES	bb	bb	0.138
21	12378-PeCDF	30.15	1.395e3	9.519e2	0.977	1.47	1.55	9.4	YES	NO	bb	bb	0.140
22	Total-pentafurans	28.98	3.478e3	3.294e3	0.998	1.06	1.55	22.5	YES	YES	bd	bb	0.388
23	Total-pentafurans	28.73	1.002e3	4.722e2	0.998	2.12	1.55	5.7	YES	YES	bb	bb	0.085
24	234678-HxCDF	36.25	1.648e3	1.311e3	1.188	1.26	1.24	9.9	YES	NO	bd	bb	0.217
25	123678-HxCDF	35.31	1.492e3	1.311e3	1.100	1.14	1.24	9.3	YES	NO	db	db	0.181
26	123478-HxCDF	35.14	1.284e3	1.026e3	1.150	1.25	1.24	8.7	YES	NO	bd	bd	0.162
27	Total-hexafurans	34.50	3.360e2	6.749e2	1.138	0.50	1.24	3.8	YES	YES	bb	bb	0.077
28	Total-hexafurans	33.63	6.864e2	4.095e2	1.138	1.68	1.24	5.0	YES	YES	bb	MM	0.084
29	123789-HxCDF	37.40	1.655e3	9.640e2	1.116	1.72	1.24	10.4	YES	YES	bd	MM	0.292
30	Total-heptafurans	40.27	1.154e3	1.154e3	1.248	1.00	1.05	18.1	YES	NO	MM	bb	0.225
31	Total-heptafurans	39.70	1.768e2	2.483e2	1.248	0.71	1.05	4.6	YES	YES	bb	bb	0.041
32	1234678-HpCDF	39.46	2.465e3	2.186e3	1.238	1.13	1.05	30.8	YES	NO	bb	bb	0.388
33	1234789-HpCDF	42.15	1.297e3	1.191e3	1.257	1.09	1.05	14.2	YES	NO	bb	MM	0.292
34	OCDF	47.44	2.852e3	3.113e3	1.321	0.92	0.89	33.0	YES	NO	bb	MM	0.895
35	Total-penta1	27.41	1.126e3	1.063e3		1.06	1.55	13.6	YES	YES	db	bb	0.137

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	26.26	1.086e3	1.488e3	1.244	0.73	0.77	9.3	YES	NO	bb	bb	0.203
2	Total-tetradiioxins	25.26	2.739e2	2.881e2	1.244	0.95	0.77	4.2	YES	YES	bb	bb	0.044
3	Total-tetradiioxins	24.96	4.300e2	3.314e2	1.244	1.30	0.77	5.0	YES	YES	bb	bd	0.060
4	Total-tetradiioxins	24.03	3.830e2	7.025e2	1.244	0.55	0.77	4.4	YES	YES	bb	bb	0.086
5	Total-tetradiioxins	23.78	2.038e3	2.606e3	1.244	0.78	0.77	24.7	YES	NO	bd	bb	0.366

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	32.12	5.141e2	1.128e2	1.058	4.56	1.55	3.0	YES	YES	bb	bd	0.063
2	12378-PeCDD	31.72	1.148e3	7.594e2	1.058	1.51	1.55	8.8	YES	NO	bb	db	0.193
3	Total-pentadioxins	30.12	8.228e2	5.754e2	1.058	1.43	1.55	7.1	YES	NO	bd	db	0.141
4	Total-pentadioxins	29.04	6.518e2	4.248e2	1.058	1.53	1.55	5.5	YES	NO	db	dd	0.109
5	Total-pentadioxins	28.99	4.946e2	4.012e2	1.058	1.23	1.55	6.0	YES	YES	bd	bd	0.091

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.21	1.234e3	1.169e3	1.047	1.06	1.24	7.1	YES	NO	bd	bd	0.259
2	123789-HxCDD	36.95	1.598e3	1.261e3	0.981	1.27	1.24	11.5	YES	NO	db	dd	0.329
3	123678-HxCDD	36.51	1.201e3	1.016e3	1.040	1.18	1.24	9.6	YES	NO	db	dd	0.227
4	123478-HxCDD	36.38	1.005e3	8.101e2	1.119	1.24	1.24	9.2	YES	NO	bd	MM	0.195
5	Total-hexadioxins	35.42	7.371e2	6.033e2	1.047	1.22	1.24	5.7	YES	NO	db	db	0.145
6	Total-hexadioxins	35.38	3.247e2	5.619e2	1.047	0.58	1.24	4.8	YES	YES	bd	bd	0.096
7	Total-hexadioxins	35.01	2.716e2	2.375e2	1.047	1.14	1.24	3.1	YES	NO	bb	bb	0.055

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.26	3.743e3	4.114e3	1.132	0.91	1.05	48.5	YES	NO	bb	bb	0.949
2	Total-heptadioxins	40.01	1.024e4	9.225e3	1.132	1.11	1.05	126.9	YES	NO	bb	bb	2.352

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.26	1.086e3	1.488e3	1.244	0.73	0.77	9.3	YES	NO	bb	bb	0.203
2	Total-tetradoxins	25.26	2.739e2	2.881e2	1.244	0.95	0.77	4.2	YES	YES	bb	bb	0.044
3	Total-tetradoxins	24.96	4.300e2	3.314e2	1.244	1.30	0.77	5.0	YES	YES	bb	bd	0.060
4	Total-tetradoxins	24.03	3.830e2	7.025e2	1.244	0.55	0.77	4.4	YES	YES	bb	bb	0.086
5	Total-tetradoxins	23.78	2.038e3	2.606e3	1.244	0.78	0.77	24.7	YES	NO	bd	bb	0.366
6	Total-pentadioxins	32.12	5.141e2	1.128e2	1.058	4.56	1.55	3.0	YES	YES	bb	bd	0.063
7	12378-PeCDD	31.72	1.148e3	7.594e2	1.058	1.51	1.55	8.8	YES	NO	bb	db	0.193
8	Total-pentadioxins	30.12	8.228e2	5.754e2	1.058	1.43	1.55	7.1	YES	NO	bd	db	0.141
9	Total-pentadioxins	29.04	6.518e2	4.248e2	1.058	1.53	1.55	5.5	YES	NO	db	dd	0.109
10	Total-pentadioxins	28.99	4.946e2	4.012e2	1.058	1.23	1.55	6.0	YES	YES	bd	bd	0.091
11	Total-hexadioxins	34.21	1.234e3	1.169e3	1.047	1.06	1.24	7.1	YES	NO	bd	bd	0.259
12	123789-HxCDD	36.95	1.598e3	1.261e3	0.981	1.27	1.24	11.5	YES	NO	db	dd	0.329
13	123678-HxCDD	36.51	1.201e3	1.016e3	1.040	1.18	1.24	9.6	YES	NO	db	dd	0.227
14	123478-HxCDD	36.38	1.005e3	8.101e2	1.119	1.24	1.24	9.2	YES	NO	bd	MM	0.195
15	Total-hexadioxins	35.42	7.371e2	6.033e2	1.047	1.22	1.24	5.7	YES	NO	db	db	0.145
16	Total-hexadioxins	35.38	3.247e2	5.619e2	1.047	0.58	1.24	4.8	YES	YES	bd	bd	0.096
17	Total-hexadioxins	35.01	2.716e2	2.375e2	1.047	1.14	1.24	3.1	YES	NO	bb	bb	0.055
18	1234678-HpCDD	41.26	3.743e3	4.114e3	1.132	0.91	1.05	48.5	YES	NO	bb	bb	0.949
19	Total-heptadioxins	40.01	1.024e4	9.225e3	1.132	1.11	1.05	126.9	YES	NO	bb	bb	2.352
20	OCDD	47.14	2.021e4	2.287e4	1.117	0.88	0.89	196.5	YES	NO	bd	bb	7.647

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.26	9.268e2	1.621e3	1.018	0.57	0.77	10.2	YES	YES	db	dd	0.126
2	Total-tetrafurans	24.11	3.838e2	6.601e2	1.018	0.58	0.77	4.6	YES	YES	dd	dd	0.052
3	Total-tetrafurans	24.02	5.927e2	8.586e2	1.018	0.69	0.77	5.5	YES	NO	dd	dd	0.072
4	Total-tetrafurans	23.85	6.990e2	7.127e2	1.018	0.98	0.77	4.5	YES	YES	dd	dd	0.070
5	Total-tetrafurans	23.75	9.538e2	1.627e3	1.018	0.59	0.77	9.9	YES	YES	dd	dd	0.128
6	Total-tetrafurans	23.64	1.276e3	1.212e3	1.018	1.05	0.77	9.9	YES	YES	dd	dd	0.123
7	Total-tetrafurans	23.54	1.226e3	1.887e3	1.018	0.65	0.77	9.5	YES	YES	MM	MM	0.155
8	Total-tetrafurans	23.36	2.442e3	3.137e3	1.018	0.78	0.77	24.6	YES	NO	bd	bd	0.277
9	Total-tetrafurans	22.76	7.074e2	8.601e2	1.018	0.82	0.77	8.2	YES	NO	bb	bb	0.078
10	Total-tetrafurans	22.49	1.032e3	1.259e3	1.018	0.82	0.77	10.7	YES	NO	bb	bb	0.114
11	Total-tetrafurans	26.21	1.472e3	1.194e3	1.018	1.23	0.77	16.2	YES	YES	db	bb	0.132
12	2378-TCDF	25.99	1.962e3	1.851e3	1.018	1.06	0.77	17.5	YES	YES	dd	bb	0.189
13	Total-tetrafurans	25.70	3.428e2	5.284e2	1.018	0.65	0.77	4.4	YES	YES	bd	bd	0.043
14	Total-tetrafurans	25.33	7.388e2	1.053e3	1.018	0.70	0.77	7.5	YES	NO	bd	dd	0.089
15	Total-tetrafurans	25.09	4.000e2	8.222e2	1.018	0.49	0.77	4.1	YES	YES	bd	dd	0.061
16	Total-tetrafurans	24.91	1.377e3	2.221e3	1.018	0.62	0.77	11.9	YES	YES	db	dd	0.179
17	Total-tetrafurans	24.78	2.726e2	8.009e2	1.018	0.34	0.77	3.6	YES	YES	dd	dd	0.053
18	Total-tetrafurans	24.67	9.042e2	1.512e3	1.018	0.60	0.77	5.6	YES	YES	dd	dd	0.120
19	Total-Furans	28.09	2.429e2	4.083e2	1.138	0.60	0.77	3.7	NO	YES	bd	bb	0.029
20	23478-PeCDF	31.47	1.378e3	1.117e3	1.019	1.23	1.55	9.6	YES	YES	bb	bb	0.138
21	12378-PeCDF	30.15	1.395e3	9.519e2	0.977	1.47	1.55	9.4	YES	NO	bb	bb	0.140
22	Total-pentafurans	28.98	3.478e3	3.294e3	0.998	1.06	1.55	22.5	YES	YES	bd	bb	0.388
23	Total-pentafurans	28.73	1.002e3	4.722e2	0.998	2.12	1.55	5.7	YES	YES	bb	bb	0.085
24	234678-HxCDF	36.25	1.648e3	1.311e3	1.188	1.26	1.24	9.9	YES	NO	bd	bb	0.217
25	123678-HxCDF	35.31	1.492e3	1.311e3	1.100	1.14	1.24	9.3	YES	NO	db	db	0.181
26	123478-HxCDF	35.14	1.284e3	1.026e3	1.150	1.25	1.24	8.7	YES	NO	bd	bd	0.162
27	Total-hexafurans	34.50	3.360e2	6.749e2	1.138	0.50	1.24	3.8	YES	YES	bb	bb	0.077
28	Total-hexafurans	33.63	6.864e2	4.095e2	1.138	1.68	1.24	5.0	YES	YES	bb	MM	0.084
29	123789-HxCDF	37.40	1.655e3	9.640e2	1.116	1.72	1.24	10.4	YES	YES	bd	MM	0.292
30	Total-heptafurans	40.27	1.154e3	1.154e3	1.248	1.00	1.05	18.1	YES	NO	MM	bb	0.225
31	Total-heptafurans	39.70	1.768e2	2.483e2	1.248	0.71	1.05	4.6	YES	YES	bb	bb	0.041
32	1234678-HpCDF	39.46	2.465e3	2.186e3	1.238	1.13	1.05	30.8	YES	NO	bb	bb	0.388
33	1234789-HpCDF	42.15	1.297e3	1.191e3	1.257	1.09	1.05	14.2	YES	NO	bb	MM	0.292
34	OCDF	47.44	2.852e3	3.113e3	1.321	0.92	0.89	33.0	YES	NO	bb	MM	0.895
35	Total-penta1	27.41	1.126e3	1.063e3		1.06	1.55	13.6	YES	YES	db	bb	0.137
36	Total-tetradoxins	26.26	1.086e3	1.488e3	1.244	0.73	0.77	9.3	YES	NO	bb	bb	0.203
37	Total-tetradoxins	25.26	2.739e2	2.881e2	1.244	0.95	0.77	4.2	YES	YES	bb	bb	0.044
38	Total-tetradoxins	24.96	4.300e2	3.314e2	1.244	1.30	0.77	5.0	YES	YES	bb	bd	0.060
39	Total-tetradoxins	24.03	3.830e2	7.025e2	1.244	0.55	0.77	4.4	YES	YES	bb	bb	0.086
40	Total-tetradoxins	23.78	2.038e3	2.606e3	1.244	0.78	0.77	24.7	YES	NO	bd	bb	0.366
41	Total-pentadoxins	32.12	5.141e2	1.128e2	1.058	4.56	1.55	3.0	YES	YES	bb	bd	0.063
42	12378-PeCDD	31.72	1.148e3	7.594e2	1.058	1.51	1.55	8.8	YES	NO	bb	db	0.193
43	Total-pentadoxins	30.12	8.228e2	5.754e2	1.058	1.43	1.55	7.1	YES	NO	bd	db	0.141
44	Total-pentadoxins	29.04	6.518e2	4.248e2	1.058	1.53	1.55	5.5	YES	NO	db	dd	0.109
45	Total-pentadoxins	28.99	4.946e2	4.012e2	1.058	1.23	1.55	6.0	YES	YES	bd	bd	0.091
46	Total-hexadoxins	34.21	1.234e3	1.169e3	1.047	1.06	1.24	7.1	YES	NO	bd	bd	0.259
47	123789-HxCDD	36.95	1.598e3	1.261e3	0.981	1.27	1.24	11.5	YES	NO	db	dd	0.329
48	123678-HxCDD	36.51	1.201e3	1.016e3	1.040	1.18	1.24	9.6	YES	NO	db	dd	0.227
49	123478-HxCDD	36.38	1.005e3	8.101e2	1.119	1.24	1.24	9.2	YES	NO	bd	MM	0.195
50	Total-hexadoxins	35.42	7.371e2	6.033e2	1.047	1.22	1.24	5.7	YES	NO	db	db	0.145
51	Total-hexadoxins	35.38	3.247e2	5.619e2	1.047	0.58	1.24	4.8	YES	YES	bd	bd	0.096

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
52	Total-hexadioxins	35.01	2.716e2	2.375e2	1.047	1.14	1.24	3.1	YES	NO	bb	bb	0.055
53	1234678-HpCDD	41.26	3.743e3	4.114e3	1.132	0.91	1.05	48.5	YES	NO	bb	bb	0.949
54	Total-heptadioxins	40.01	1.024e4	9.225e3	1.132	1.11	1.05	126.9	YES	NO	bb	bb	2.352
55	OCDD	47.14	2.021e4	2.287e4	1.117	0.88	0.89	196.5	YES	NO	bd	bb	7.647

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.02	9.984e4					5.4	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.57	1.752e6					21.7	YES		dd		0.000
2	FUNCTION3 PFK	34.26	1.206e6					18.4	YES		bd		0.000
3	FUNCTION3 PFK	34.06	1.023e6					14.3	YES		db		0.000
4	FUNCTION3 PFK	33.87	7.496e5					10.2	YES		dd		0.000
5	FUNCTION3 PFK	33.78	1.248e5					6.9	YES		dd		0.000
6	FUNCTION3 PFK	33.71	1.727e5					5.6	YES		bd		0.000
7	FUNCTION3 PFK	33.20	6.096e4					2.6	NO		bb		0.000
8	FUNCTION3 PFK	33.07	1.282e5					4.4	YES		bb		0.000
9	FUNCTION3 PFK	37.08	1.761e6					21.9	YES		dd		0.000
10	FUNCTION3 PFK	36.85	1.752e6					24.7	YES		dd		0.000
11	FUNCTION3 PFK	36.65	1.956e6					29.8	YES		dd		0.000
12	FUNCTION3 PFK	36.52	1.670e6					27.9	YES		dd		0.000
13	FUNCTION3 PFK	36.43	5.770e5					18.4	YES		dd		0.000
14	FUNCTION3 PFK	36.27	1.896e6					31.8	YES		dd		0.000
15	FUNCTION3 PFK	36.11	2.269e6					32.7	YES		dd		0.000
16	FUNCTION3 PFK	35.93	4.123e6					33.9	YES		dd		0.000
17	FUNCTION3 PFK	35.63	1.929e6					32.4	YES		bd		0.000
18	FUNCTION3 PFK	35.44	3.600e6					40.6	YES		db		0.000
19	FUNCTION3 PFK	35.24	1.271e6					33.0	YES		dd		0.000
20	FUNCTION3 PFK	35.14	8.875e5					27.2	YES		dd		0.000
21	FUNCTION3 PFK	34.96	3.291e6					32.1	YES		dd		0.000
22	FUNCTION3 PFK	34.73	1.785e6					24.6	YES		dd		0.000
23	FUNCTION3 PFK	34.64	4.403e5					21.7	YES		dd		0.000
24	FUNCTION3 PFK	34.63	4.429e5					22.2	YES		dd		0.000
25	FUNCTION3 PFK	38.26	1.018e5					0.0	NO		bb		0.000
26	FUNCTION3 PFK	38.10	3.334e4					2.2	NO		bb		0.000
27	FUNCTION3 PFK	38.00	1.345e5					4.9	YES		db		0.000
28	FUNCTION3 PFK	37.88	2.362e5					10.9	YES		dd		0.000
29	FUNCTION3 PFK	37.72	1.285e6					14.2	YES		dd		0.000
30	FUNCTION3 PFK	37.60	3.754e5					12.2	YES		dd		0.000
31	FUNCTION3 PFK	37.42	1.560e6					19.9	YES		dd		0.000
32	FUNCTION3 PFK	37.23	1.690e6					22.8	YES		dd		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.49	1.197e5					6.0	YES		bb		
2	FUNCTION4 PFK	40.04	4.383e5					11.0	YES		bb		
3	FUNCTION4 PFK	39.81	1.403e5					4.7	YES		bb		
4	FUNCTION4 PFK	39.41	1.930e5					8.5	YES		bb		
5	FUNCTION4 PFK	39.12	4.539e5					7.0	YES		bb		
6	FUNCTION4 PFK	38.88	3.205e5					8.9	YES		bb		
7	FUNCTION4 PFK	38.63	3.953e5					10.3	YES		bb		
8	FUNCTION4 PFK	44.01	6.302e4					3.4	YES		bb		
9	FUNCTION4 PFK	43.87	6.856e5					11.1	YES		bb		
10	FUNCTION4 PFK	43.62	1.000e5					6.5	YES		db		
11	FUNCTION4 PFK	43.57	1.935e5					8.2	YES		bd		
12	FUNCTION4 PFK	43.42	1.272e5					5.2	YES		bb		
13	FUNCTION4 PFK	42.66	7.311e4					4.4	YES		bb		
14	FUNCTION4 PFK	42.26	5.751e4					5.2	YES		db		
15	FUNCTION4 PFK	42.21	3.491e5					6.9	YES		bd		
16	FUNCTION4 PFK	41.49	2.063e5					4.3	YES		db		
17	FUNCTION4 PFK	41.24	5.060e5					10.1	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.83	3.687e4					3.6	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.23	1.013e2					4.3	YES		db		0.000
2	FUNCTION1 HXCD...	26.06	3.079e4					537.3	YES		bd		0.000
3	FUNCTION1 HXCD...	25.78	8.615e3					154.2	YES		bb		0.000
4	FUNCTION1 HXCD...	28.26	1.537e2					2.8	NO		bb		0.000
5	FUNCTION1 HXCD...	27.54	1.397e2					3.2	YES		bb		0.000
6	FUNCTION1 HXCD...	27.35	1.312e2					3.3	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.83	1.791e2					3.2	YES		bb		0.000
2	FUNCTION1 HPCD...	26.03	1.083e2					4.0	YES		bb		0.000
3	FUNCTION1 HPCD...	23.05	8.216e1					2.4	NO		bb		0.000
4	FUNCTION1 HPCD...	22.30	2.724e3					51.3	YES		bb		0.000
5	FUNCTION1 HPCD...	21.18	5.409e2					8.3	YES		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.14	7.214e1					3.0	YES		bb		0.000
2	FUNCTION2 HPCD...	30.81	8.804e1					2.2	NO		bb		0.000
3	FUNCTION2 HPCD...	29.84	7.499e1					1.8	NO		db		0.000
4	FUNCTION2 HPCD...	29.76	1.377e2					2.2	NO		bd		0.000
5	FUNCTION2 HPCD...	29.19	1.125e2					1.6	NO		bb		0.000
6	FUNCTION2 HPCD...	29.02	1.281e2					2.2	NO		bb		0.000
7	FUNCTION2 HPCD...	32.55	7.483e1					1.7	NO		bb		0.000
8	FUNCTION2 HPCD...	32.41	1.837e2					3.3	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.98	1.043e2					1.9	NO		db		0.000
2	FUNCTION3 OCDPE	37.88	9.906e1					2.2	NO		bd		0.000
3	FUNCTION3 OCDPE	35.89	7.200e1					3.1	YES		bb		0.000
4	FUNCTION3 OCDPE	34.79	1.367e2					3.1	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.72	7.442e1					1.8	NO		bb		0.000
2	FUNCTION4 NCDPE	40.49	7.390e1					2.2	NO		bb		0.000
3	FUNCTION4 NCDPE	40.34	1.087e2					3.6	YES		db		0.000
4	FUNCTION4 NCDPE	40.30	9.786e1					2.3	NO		bd		0.000
5	FUNCTION4 NCDPE	40.09	8.538e1					2.5	NO		bb		0.000
6	FUNCTION4 NCDPE	39.98	7.859e1					1.8	NO		bb		0.000
7	FUNCTION4 NCDPE	39.70	2.270e2					4.1	YES		bb		0.000
8	FUNCTION4 NCDPE	39.05	1.586e3					23.3	YES		bb		0.000
9	FUNCTION4 NCDPE	43.39	9.471e1					2.2	NO		bb		0.000
10	FUNCTION4 NCDPE	41.34	9.588e1					2.0	NO		db		0.000
11	FUNCTION4 NCDPE	41.26	7.463e1					1.6	NO		bd		0.000
12	FUNCTION4 NCDPE	40.93	1.102e2					1.6	NO		bb		0.000

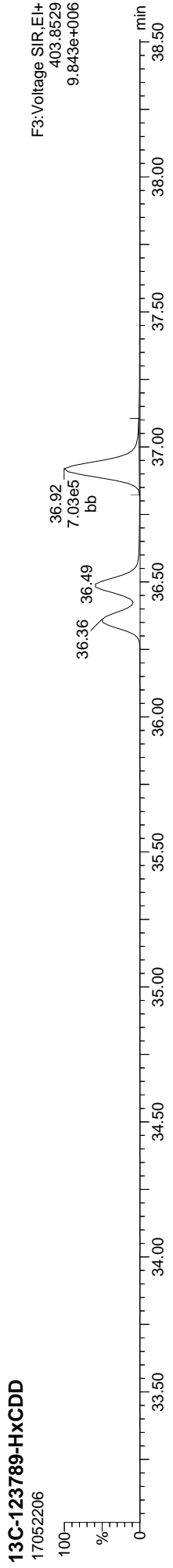
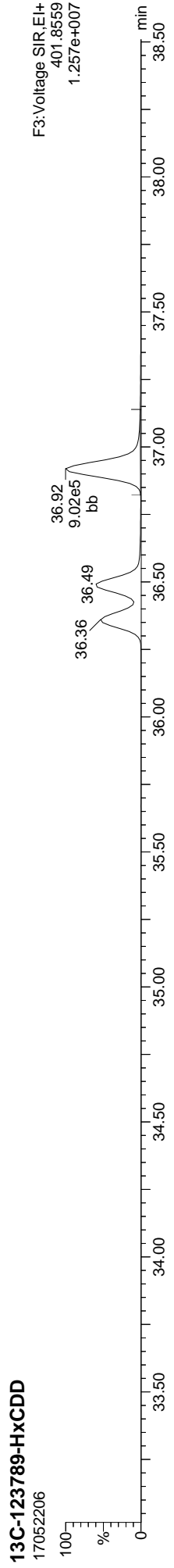
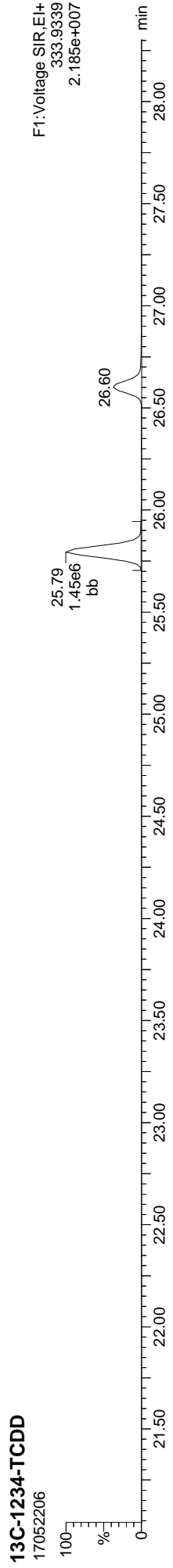
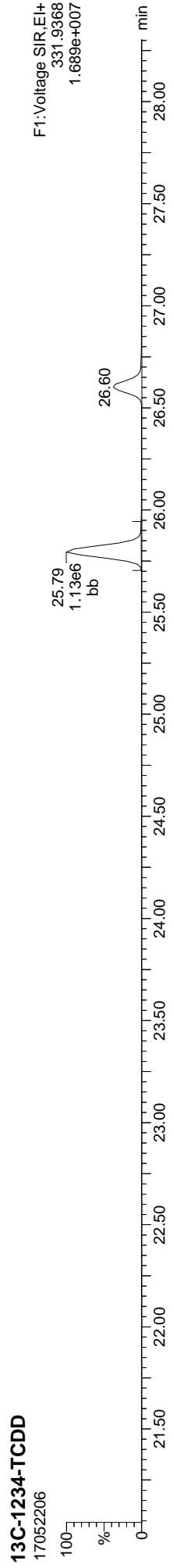
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.32	9.211e1					3.6	YES		bb		0.000

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

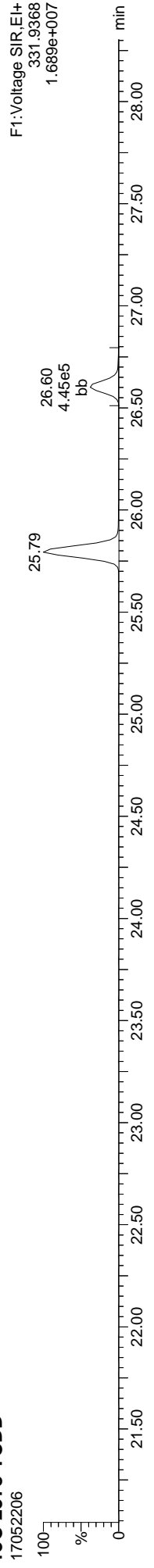
ID: 17D0421-01, **Name:** 17052206, **Date:** 22-May-2017, **Time:** 13:50:32, **Conditions:** AUTOSPEC01, **User:** PK



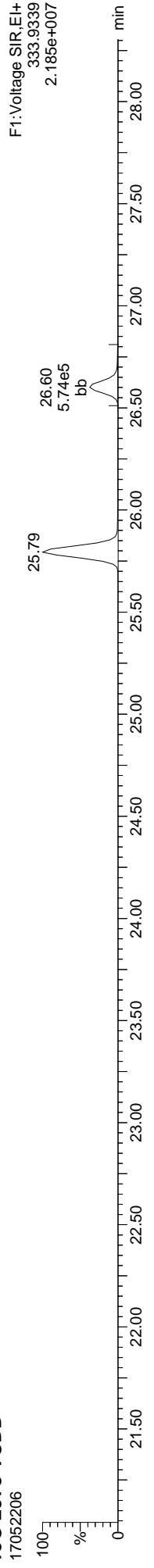
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

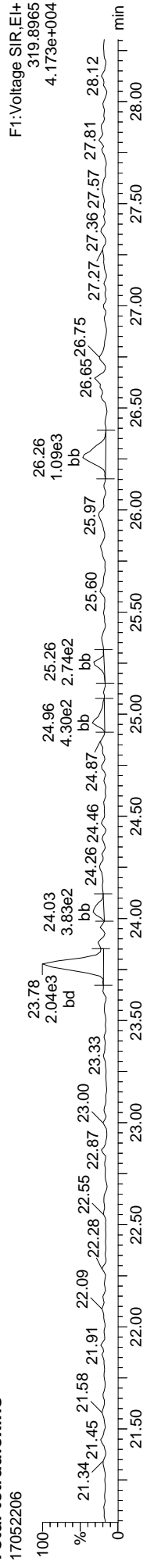
13C-2378-TCDD



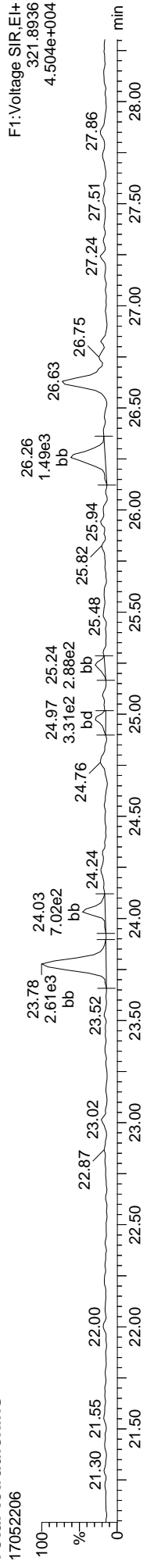
13C-2378-TCDD



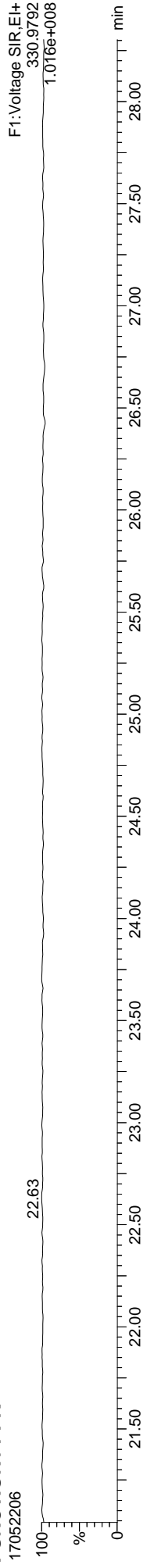
Total-tetradioxins



Total-tetradioxins



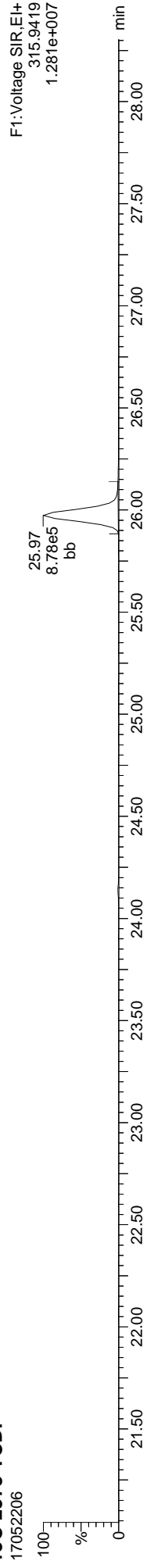
FUNCTION1 PFK



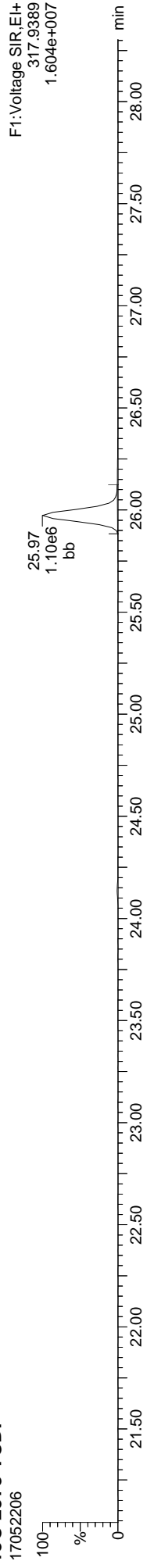
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

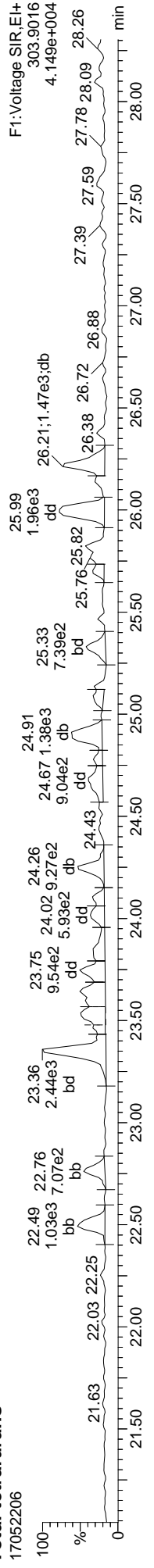
13C-2378-TCDF



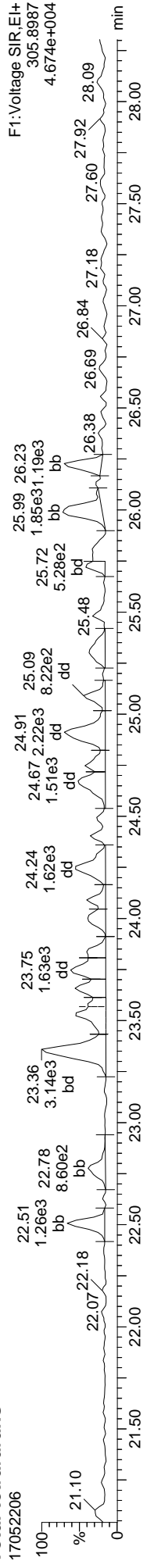
13C-2378-TCDF



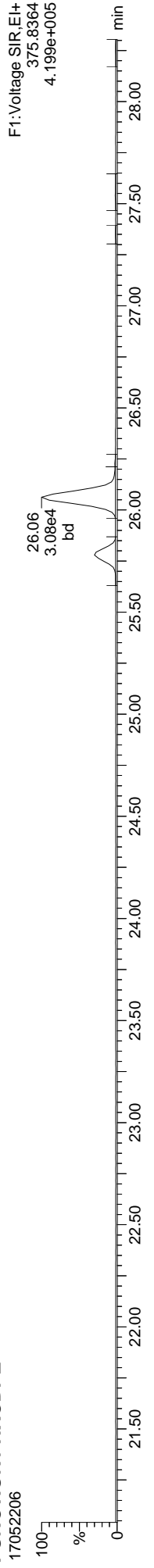
Total-tetrafurans



Total-tetrafurans



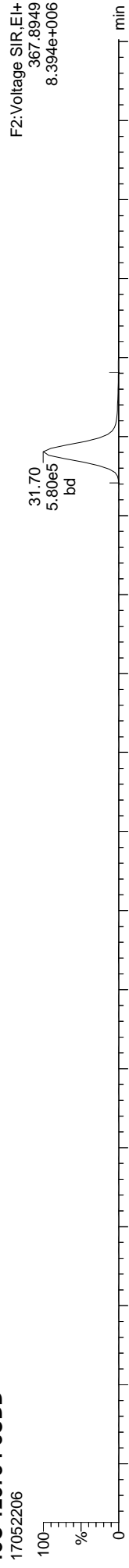
FUNCTION1 HXCDFE



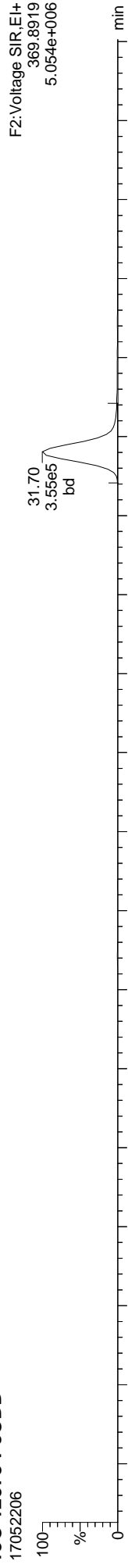
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

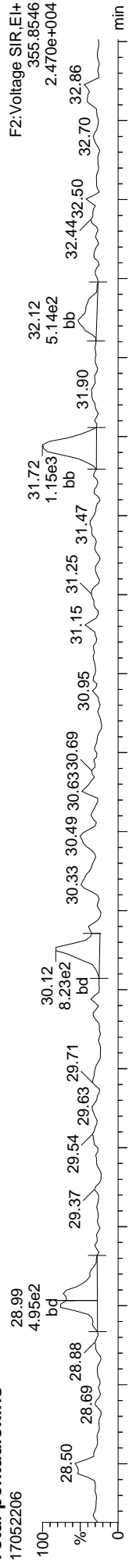
13C-12378-PeCDD



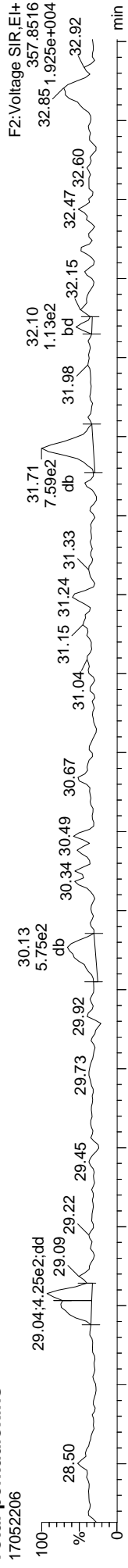
13C-12378-PeCDD



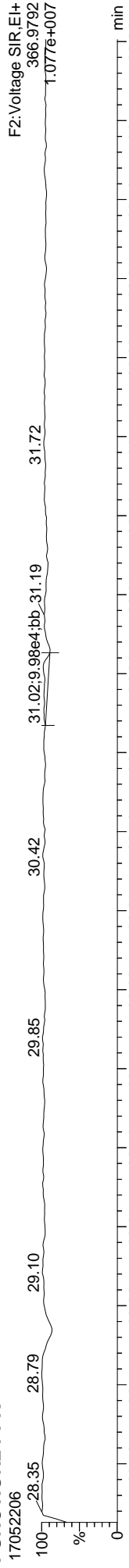
Total-pentadioxins



Total-pentadioxins



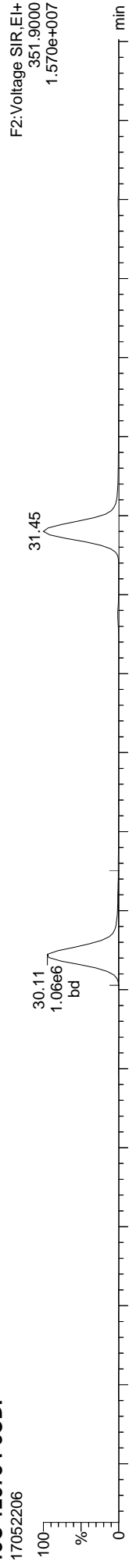
FUNCTION2 PFK



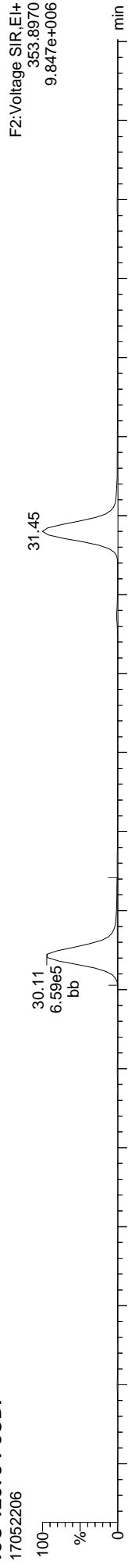
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

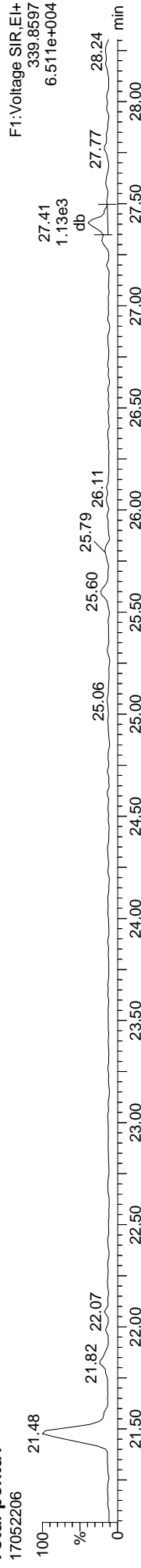
13C-12378-PeCDF



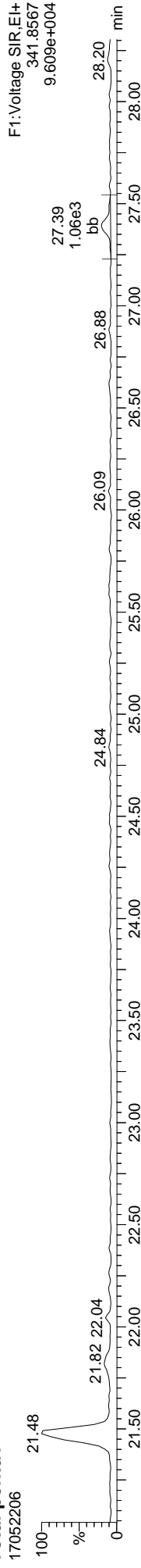
13C-12378-PeCDF



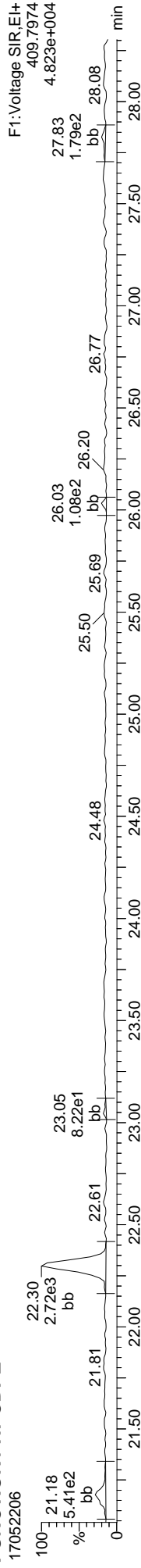
Total-penta1



Total-penta1



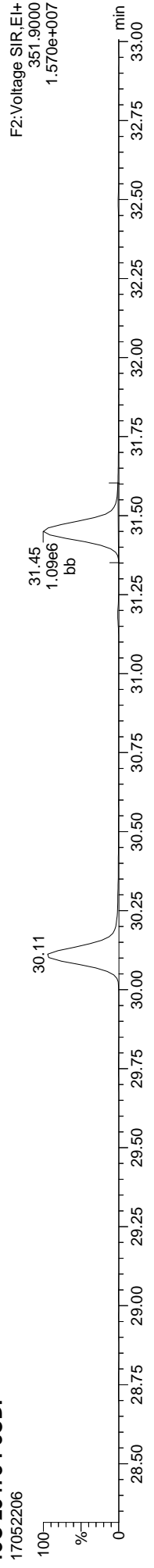
FUNCTION1 HPCDPE



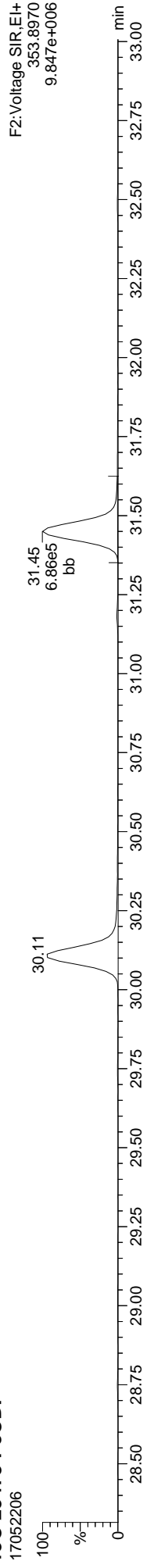
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

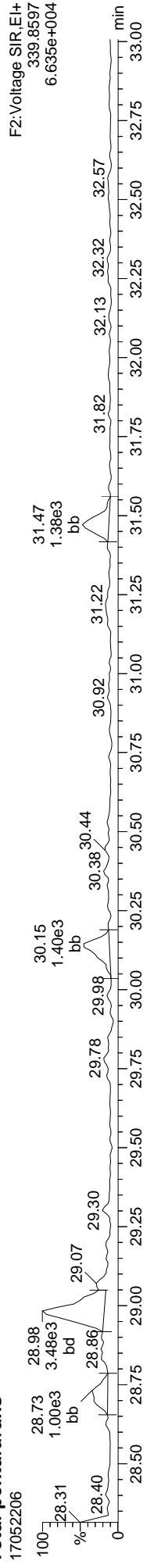
13C-23478-PeCDF



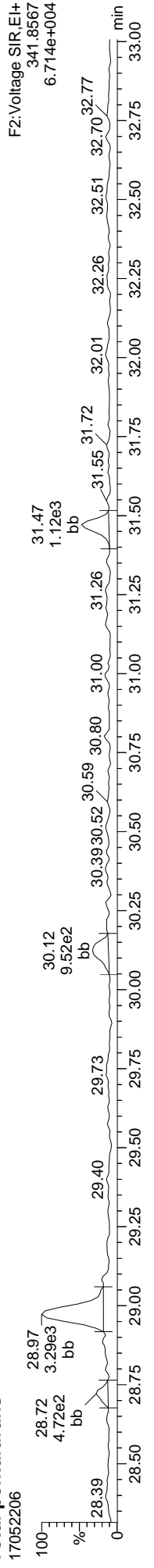
13C-23478-PeCDF



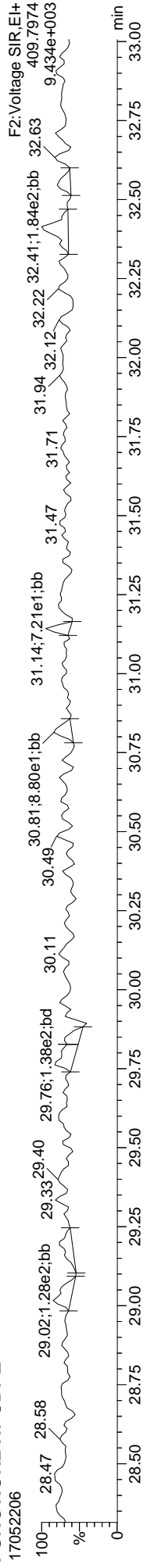
Total-pentafurans



Total-pentafurans



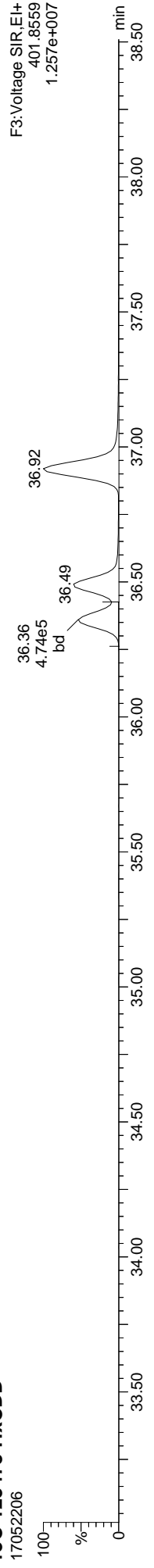
FUNCTION2 HPCDPE



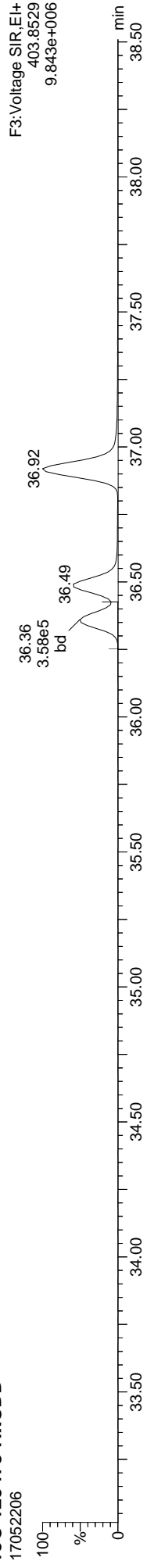
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

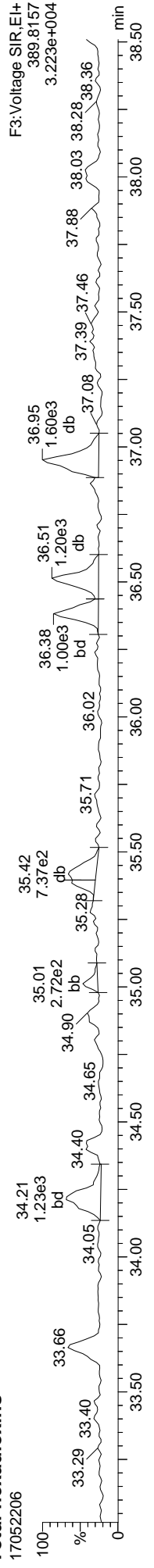
13C-123478-HxCDD



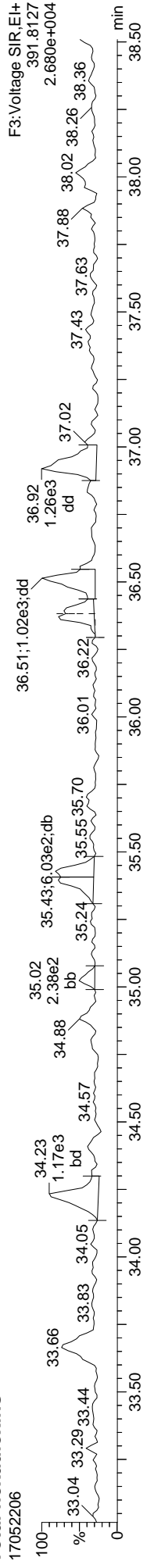
13C-123478-HxCDD



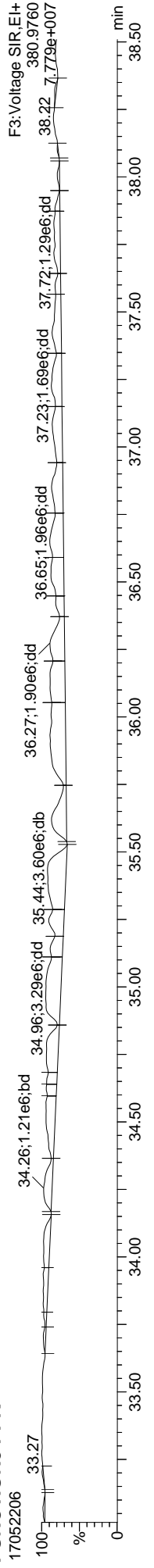
Total-hexadioxins



Total-hexadioxins



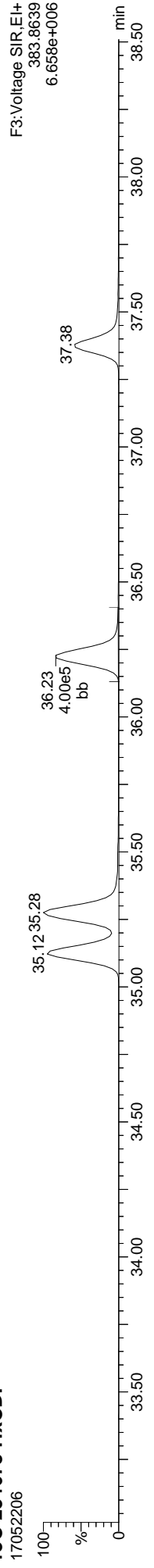
FUNCTION3 PFK



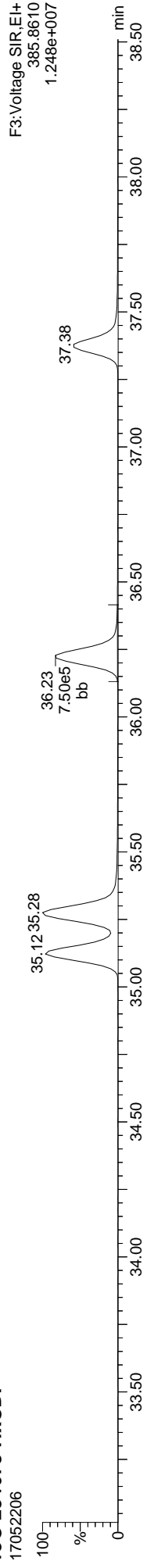
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

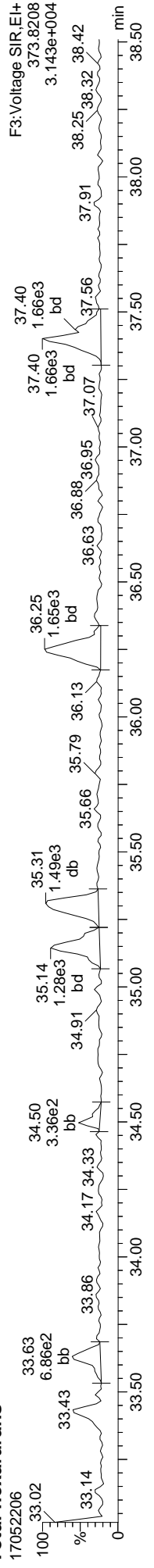
13C-234678-HxCDF



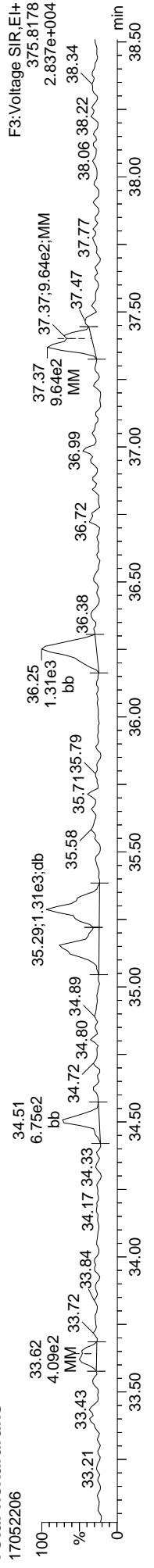
13C-234678-HxCDF



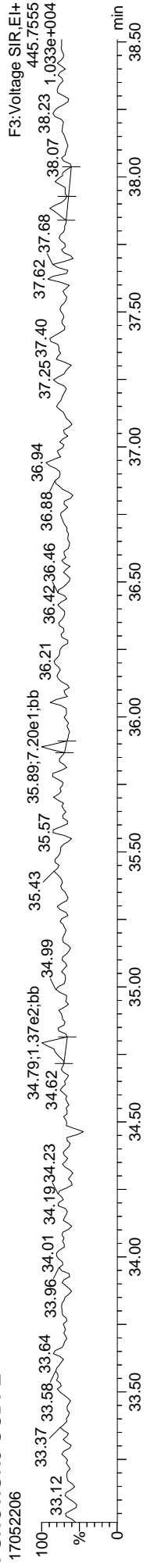
Total-hexafurans



Total-hexafurans



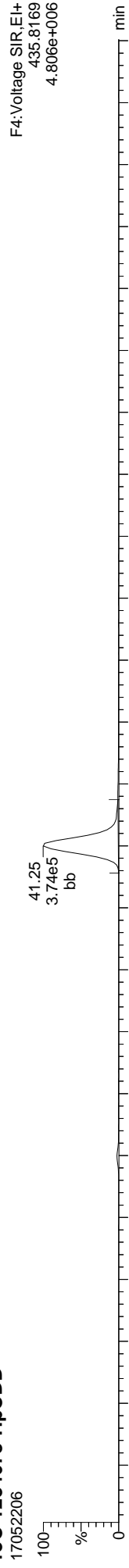
FUNCTION3 OCDFE



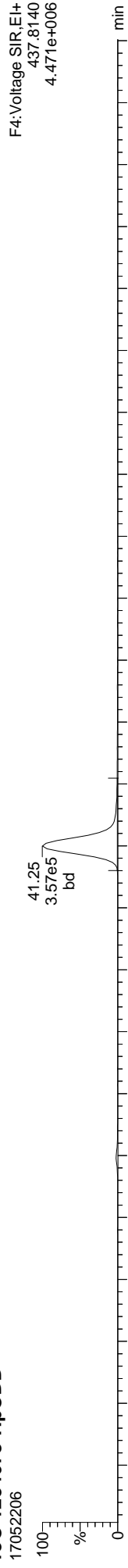
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

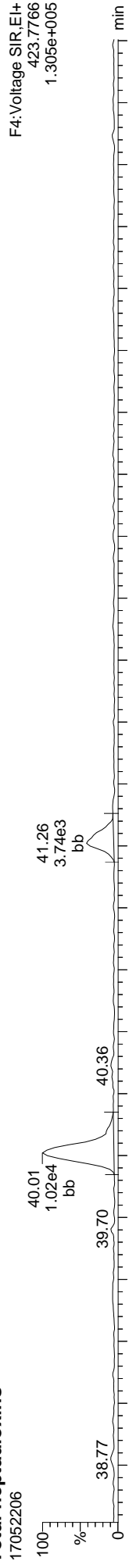
13C-1234678-HpCDD



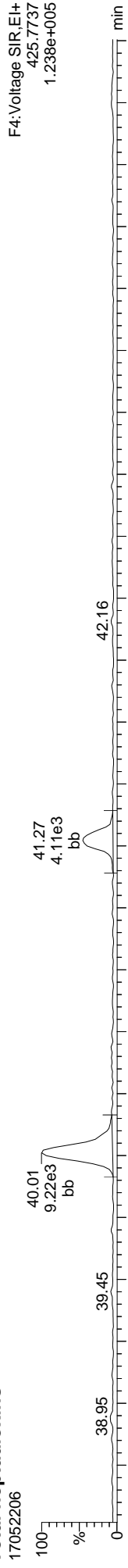
13C-1234678-HpCDD



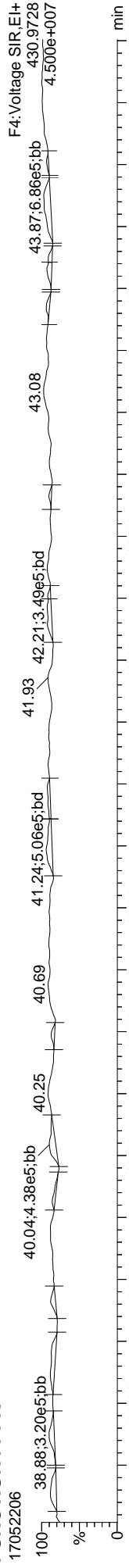
Total-heptadioxins



Total-heptadioxins



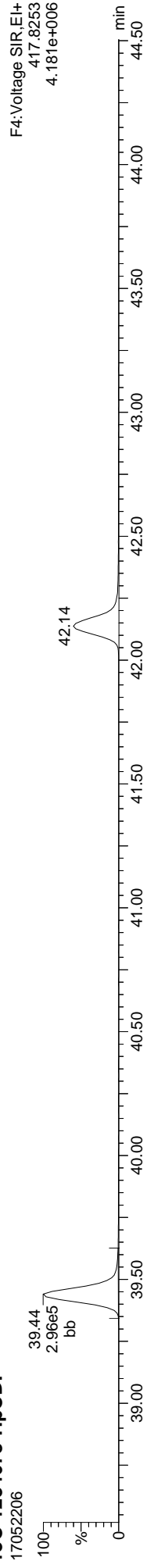
FUNCTION4 PFK



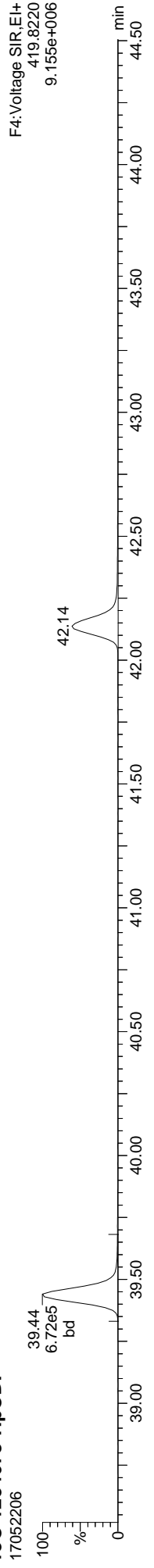
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

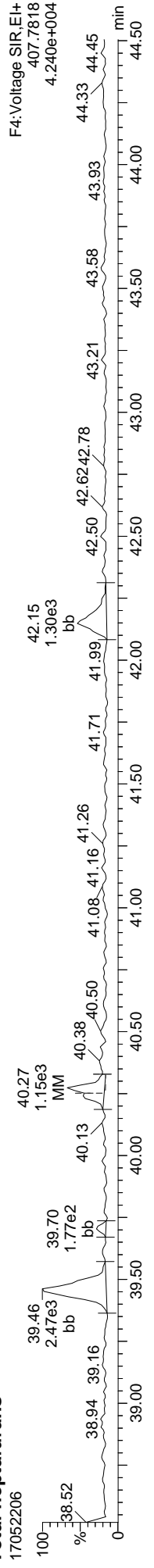
13C-1234678-HpCDF



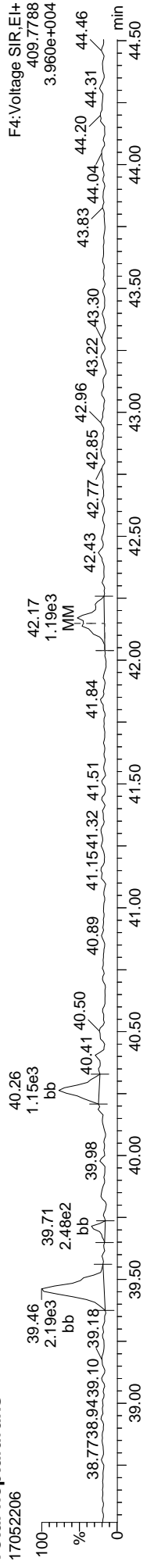
13C-1234678-HpCDF



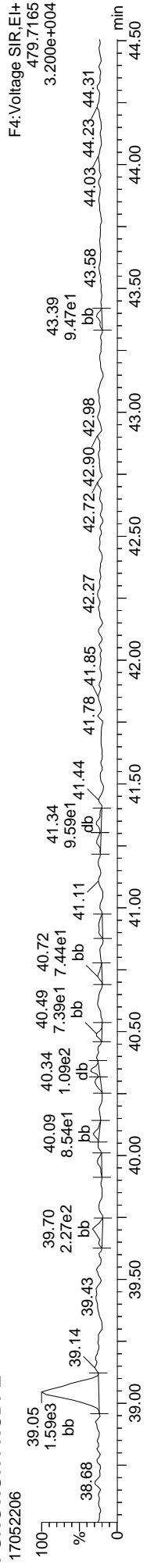
Total-heptafurans



Total-heptafurans



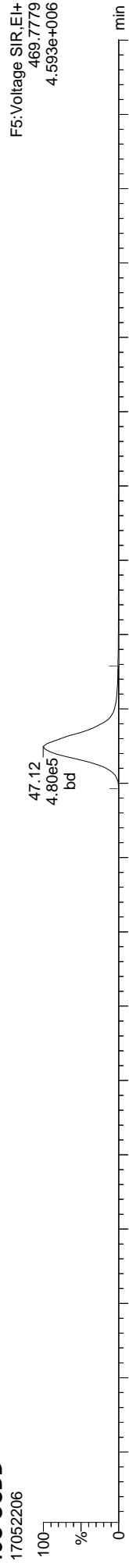
FUNCTION4 NCDPE



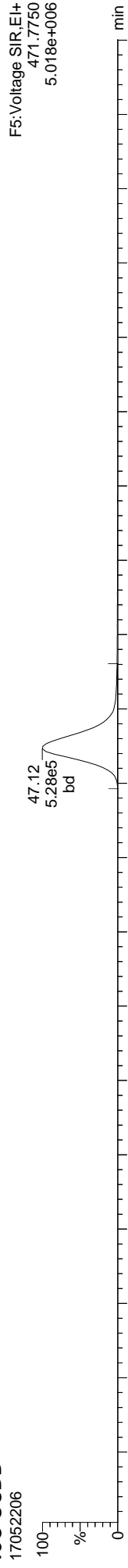
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

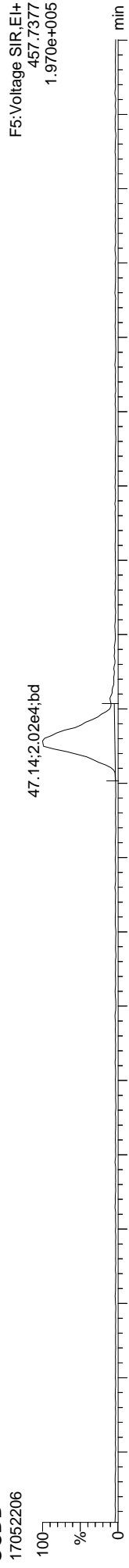
13C-OCDD



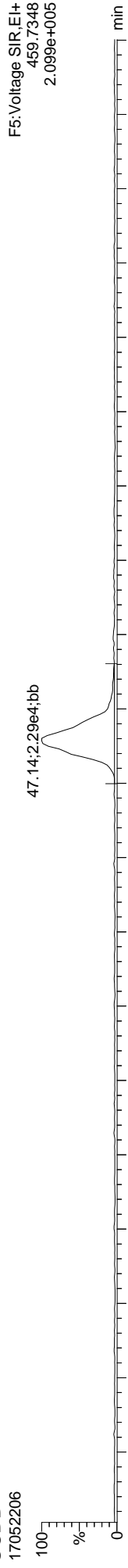
13C-OCDD



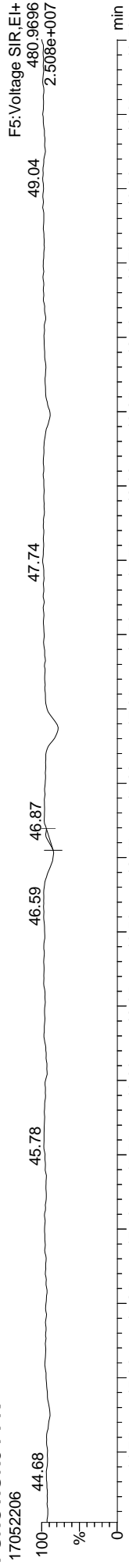
OCDD



OCDD



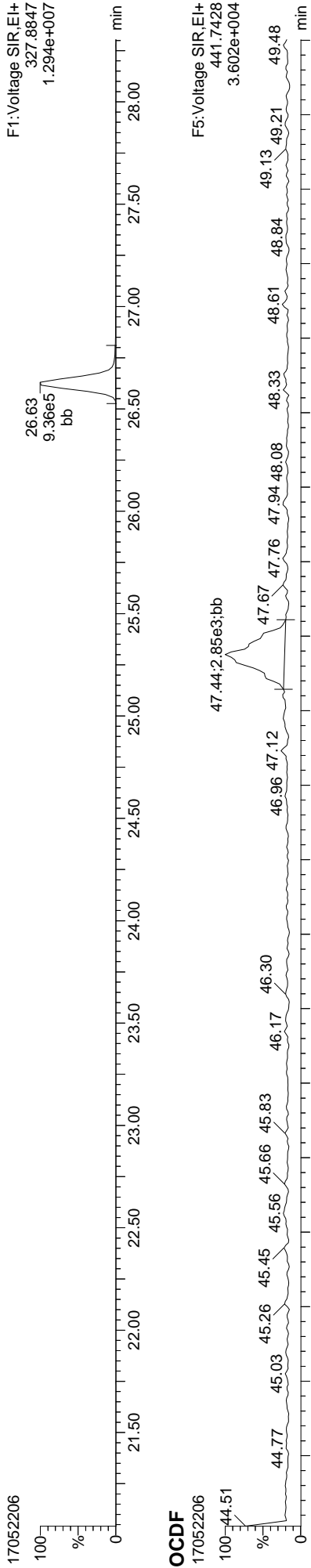
FUNCTION5 PFK



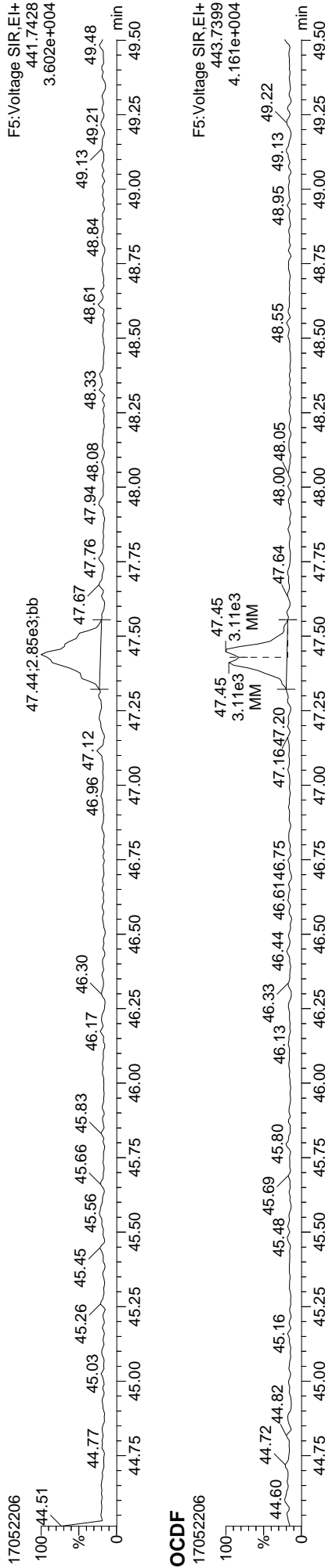
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:57 Pacific Daylight Time

ID: 17D0421-01, Name: 17052206, Date: 22-May-2017, Time: 13:50:32, Conditions: AUTOSPEC01, User: PK

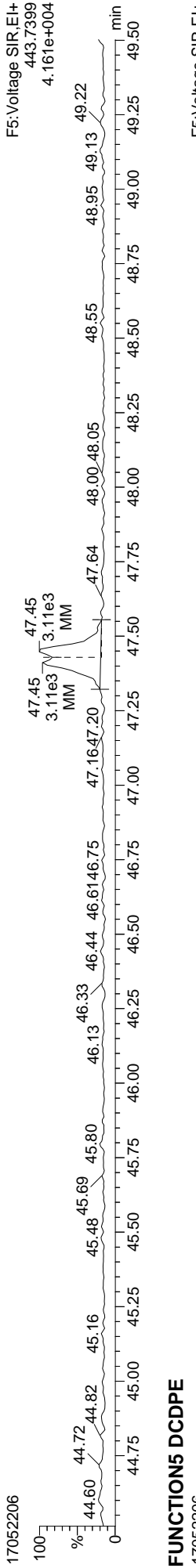
37CL-2378-TCDD



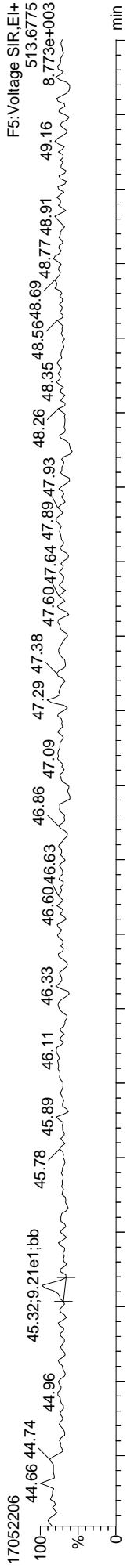
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-02 File ID: 17052207
 Sampled: 04/24/17 10:45 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 14:43
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.04 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.068	0.996	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.164	0.655-0.886		0.996	0.277	ng/kg	EMPC, J, B
57117-41-6	1,2,3,7,8-PeCDF	1	1.321	1.318-1.783		4.98	0.226	ng/kg	J, B
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.084	4.98	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.443	1.318-1.783		4.98	0.135	ng/kg	J, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.702	1.054-1.426		4.98	0.147	ng/kg	EMPC, J, B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.360	1.054-1.426		4.98	0.180	ng/kg	J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.187	1.054-1.426		4.98	0.139	ng/kg	J, B
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.830	1.054-1.426		4.98	0.144	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.742	1.054-1.426		4.98	0.153	ng/kg	EMPC, J, B
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.288	1.054-1.426		4.98	0.161	ng/kg	J, B
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.914	1.054-1.426		4.98	0.221	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.672	0.893-1.208		4.98	0.415	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.142	4.98	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.271	0.893-1.208		4.98	1.09	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.734	0.757-1.024		9.96	0.634	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.944	0.757-1.024		9.96	10.4	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.996	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.996	0.277	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.996	0.319	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.996	0.135	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.996	0.866	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.996	0.869	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.996	0.834	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.996	4.03	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.552
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.552



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-02</u>
Sampled:	<u>04/24/17 10:45</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052207</u>
		Analyzed:	<u>05/22/17 14:43</u>
		Initial/Final:	<u>10.04 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.791	0.655-0.886		42.9	24 - 169 %	
13C12-2,3,7,8-TCDD		0.765	0.655-0.886		42.5	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.589	1.318-1.783		35.9	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.584	1.318-1.783		37.7	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.629	1.318-1.783		38.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.515	0.434-0.587		39.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.546	0.434-0.587		38.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.524	0.434-0.587		38.9	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.533	0.434-0.587		35.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.296	1.054-1.426		43.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.276	1.054-1.426		41.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.462	0.374-0.506		37.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.461	0.374-0.506		35.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.026	0.893-1.208		39.8	23 - 140 %	
13C12-OCDD		0.911	0.757-1.024		28.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			92.5	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb **18 May 2017 15:01:42**
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb **19 May 2017 13:57:26**

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF					1.018		0.770	1032	1529									
12378-PeCDF	30.146	1.001	8.467e2	6.408e2	0.977	1.321	1.550	1299	1494	9.44e3	8.11e3	7.3	YES	NO	MM	db	0.114	
23478-PeCDF					1.019		1.550	1299	1494									
123478-HxCDF	35.155	1.001	5.094e2	2.992e2	1.150	1.702	1.240	1020	1222	6.52e3	4.90e3	6.4	YES	YES	MM	MM	0.074	
234678-HxCDF	36.251	1.001	3.981e2	3.354e2	1.188	1.187	1.240	1020	1222	8.54e3	8.77e3	8.4	YES	NO	bb	bb	0.070	
123678-HxCDF	35.286	1.000	6.186e2	4.549e2	1.100	1.360	1.240	1020	1222	1.23e4	6.21e3	12.0	YES	NO	bb	db	0.091	
123789-HxCDF	37.380	1.001	2.418e2	2.912e2	1.116	0.830	1.240	1020	1222	6.00e3	5.00e3	5.9	YES	YES	MM	bb	0.073	
1234678-HpCDF	39.440	1.001	7.885e2	1.174e3	1.238	0.672	1.050	842	863	1.13e4	1.67e4	13.4	YES	YES	bb	bb	0.208	
1234789-HpCDF					1.257		1.050	842	863									
OCDF	47.402	1.007	5.431e2	7.403e2	1.321	0.734	0.890	1247	1844	7.76e3	8.78e3	6.2	YES	YES	MM	MM	0.318	
2378-TCDD	26.631	1.001	1.979e2	1.208e3	1.244	0.164	0.770	1125	1008	5.07e3	1.76e4	4.5	YES	YES	bb	bd	0.139	
12378-PeCDD	31.735	1.001	3.074e2	2.131e2	1.058	1.443	1.550	1266	1049	4.77e3	4.00e3	3.8	YES	NO	MM	bb	0.068	
123478-HxCDD	36.393	1.001	3.781e2	2.170e2	1.119	1.742	1.240	1255	1375	5.94e3	6.48e3	4.7	YES	YES	bb	bd	0.077	
123678-HxCDD	36.503	1.001	3.545e2	2.753e2	1.040	1.288	1.240	1255	1375	6.98e3	4.71e3	5.6	YES	NO	bb	db	0.081	
123789-HxCDD	36.908	1.012	5.142e2	2.687e2	0.981	1.914	1.240	1255	1375	9.12e3	6.41e3	7.3	YES	YES	bb	MM	0.111	
1234678-HpCDD	41.238	1.000	1.837e3	1.446e3	1.132	1.271	1.050	1040	787	2.19e4	2.19e4	21.0	YES	YES	bb	bb	0.549	
OCDD	47.097	1.000	8.630e3	9.142e3	1.117	0.944	0.890	1114	1143	8.15e4	8.55e4	73.2	YES	NO	bd	bb	5.213	
13C-2378-TCDF	25.988	1.007	6.995e5	8.843e5	1.685	0.791	0.770	6066	3089	9.82e6	1.23e7	1618.5	YES	NO	bb	bb	42.881	
13C-12378-PeCDF	30.113	1.167	8.233e5	5.183e5	1.706	1.589	1.550	4324	2711	1.16e7	7.28e6	2686.2	YES	NO	bb	bd	35.879	
13C-23478-PeCDF	31.461	1.219	8.266e5	5.218e5	1.632	1.584	1.550	4324	2711	1.20e7	7.51e6	2771.1	YES	NO	bb	bb	37.692	
13C-123478-HxCDF	35.122	0.952	3.243e5	6.303e5	1.682	0.515	0.510	2389	4144	4.76e6	9.31e6	1993.6	YES	NO	bd	bd	39.453	
13C-123678-HxCDF	35.275	0.956	3.810e5	6.973e5	1.945	0.546	0.510	2389	4144	5.19e6	9.60e6	2173.8	YES	NO	dd	db	38.534	
13C-234678-HxCDF	36.218	0.981	3.044e5	5.808e5	1.582	0.524	0.510	2389	4144	4.42e6	8.31e6	1851.1	YES	NO	bb	bb	38.896	
13C-123789-HxCDF	37.358	1.012	2.291e5	4.297e5	1.291	0.533	0.510	2389	4144	3.14e6	6.07e6	1315.1	YES	NO	bb	bb	35.488	
13C-1234678-HpCDF	39.418	1.068	2.404e5	5.201e5	1.427	0.462	0.440	1861	5052	3.24e6	6.90e6	1740.6	YES	NO	bd	bd	37.066	
13C-1234789-HpCDF	42.104	1.141	1.544e5	3.350e5	0.957	0.461	0.440	1861	5052	1.80e6	3.95e6	968.1	YES	NO	bd	bd	35.559	
13C-1234-TCDD	25.809	0.000	9.617e5	1.231e6	1.000	0.781	0.770	2950	1690	1.40e7	1.79e7	4760.9	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.616	1.031	3.527e5	4.607e5	0.873	0.765	0.770	2950	1690	4.96e6	6.42e6	1682.3	YES	NO	bb	bb	42.514	
13C-12378-PeCDD	31.713	1.229	4.492e5	2.758e5	0.860	1.629	1.550	1649	1667	6.27e6	3.82e6	3800.3	YES	NO	bd	bd	38.453	
13C-123478-HxCDD	36.349	0.985	3.902e5	3.011e5	1.114	1.296	1.240	3321	1866	5.80e6	4.45e6	1745.4	YES	NO	bd	bd	43.155	
13C-123678-HxCDD	36.481	0.988	4.210e5	3.299e5	1.258	1.276	1.240	3321	1866	5.91e6	4.59e6	1778.9	YES	NO	dd	db	41.482	
13C-1234678-HpCDD	41.216	1.117	2.676e5	2.608e5	0.924	1.026	1.050	2057	2057	3.48e6	3.35e6	1564.4	YES	NO	bb	bb	39.773	
13C-OCDD	47.079	1.276	2.911e5	3.194e5	0.738	0.911	0.890	1824	1621	2.82e6	3.04e6	1547.2	YES	NO	bd	bb	57.483	
13C-123789-HxCDD	36.908	0.000	8.071e5	6.313e5	1.000	1.279	1.240	3321	1866	1.14e7	8.87e6	3439.9	YES	NO	bb	bb	100.000	
Total-tetrafurans			0.000e0	0.000e0	1.018			1032		0.00e0								

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					1041		0.00e0								
Total-pentafurans			1.162e3		0.998			1299		1.52e4								0.160
Total-hexafurans			2.525e3		1.138			1020		5.00e4								0.435
Total-heptafurans			1.756e3		1.248			842		2.64e4								0.419
Total-Furans			5.986e3		1.138			1032		9.94e4								1.332
Total-tetradioxins			1.979e2		1.244			1125		5.07e3								0.139
Total-pentadioxins			3.074e2		1.058			1266		4.77e3								0.068
Total-hexadioxins			2.015e3		1.047			1255		3.27e4								0.436
Total-heptadioxins			6.665e3		1.132			1040		8.90e4								2.024
Total-Dioxins			1.781e4		1.099			1125		2.13e5								7.880
Total-TEQ			2.380e4					1125		3.12e5								9.212
37CL-2378-TCDD	26.631	1.032	8.283e5		1.021			1625		1.18e7		7267.4	YES		bb			36.998
FUNCTION1 PFK			1.278e6					804273		2.17e7								0.000
FUNCTION2 PFK			2.337e4					122592		7.74e5								0.000
FUNCTION3 PFK			8.037e5					591517		1.79e7								0.000
FUNCTION4 PFK			3.818e5					411907		1.01e7								
FUNCTION5 PFK			3.065e5					241991		1.30e7								
FUNCTION1 HXCD...			3.022e3					907		4.03e4								0.000
FUNCTION1 HPCD...			5.482e2					856		9.40e3								0.000
FUNCTION2 HPCD...			1.776e2					897		3.45e3								0.000
FUNCTION3 OCDPE			4.959e2					893		1.06e4								0.000
FUNCTION4 NCDPE			7.349e2					745		1.06e4								0.000
FUNCTION5 DCDPE			2.554e2					930		5.59e3								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.15	8.467e2	6.408e2	0.977	1.32	1.55	7.3	YES	NO	MM	db	0.114
2	Total-pentafurans	28.99	3.155e2	3.116e2	0.998	1.01	1.55	4.5	YES	YES	bd	bd	0.047

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.15	5.094e2	2.992e2	1.150	1.70	1.24	6.4	YES	YES	MM	MM	0.074
2	Total-hexafurans	33.65	2.220e2	1.639e2	1.138	1.35	1.24	6.2	YES	NO	dd	dd	0.038
3	Total-hexafurans	33.41	5.351e2	3.854e2	1.138	1.39	1.24	10.2	YES	NO	bd	bd	0.090
4	123789-HxCDF	37.38	2.418e2	2.912e2	1.116	0.83	1.24	5.9	YES	YES	MM	bb	0.073
5	234678-HxCDF	36.25	3.981e2	3.354e2	1.188	1.19	1.24	8.4	YES	NO	bb	bb	0.070
6	123678-HxCDF	35.29	6.186e2	4.549e2	1.100	1.36	1.24	12.0	YES	NO	bb	db	0.091

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	40.22	9.677e2	6.731e2	1.248	1.44	1.05	17.9	YES	YES	bb	bb	0.210
2	1234678-HpCDF	39.44	7.885e2	1.174e3	1.238	0.67	1.05	13.4	YES	YES	bb	bb	0.208

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.15	8.467e2	6.408e2	0.977	1.32	1.55	7.3	YES	NO	MM	db	0.114
2	Total-pentafurans	28.99	3.155e2	3.116e2	0.998	1.01	1.55	4.5	YES	YES	bd	bd	0.047
3	123478-HxCDF	35.15	5.094e2	2.992e2	1.150	1.70	1.24	6.4	YES	YES	MM	MM	0.074
4	Total-hexafurans	33.65	2.220e2	1.639e2	1.138	1.35	1.24	6.2	YES	NO	dd	dd	0.038
5	Total-hexafurans	33.41	5.351e2	3.854e2	1.138	1.39	1.24	10.2	YES	NO	bd	bd	0.090
6	123789-HxCDF	37.38	2.418e2	2.912e2	1.116	0.83	1.24	5.9	YES	YES	MM	bb	0.073
7	234678-HxCDF	36.25	3.981e2	3.354e2	1.188	1.19	1.24	8.4	YES	NO	bb	bb	0.070
8	123678-HxCDF	35.29	6.186e2	4.549e2	1.100	1.36	1.24	12.0	YES	NO	bb	db	0.091
9	OCDF	47.40	5.431e2	7.403e2	1.321	0.73	0.89	6.2	YES	YES	MM	MM	0.318
10	Total-heptafurans	40.22	9.677e2	6.731e2	1.248	1.44	1.05	17.9	YES	YES	bb	bb	0.210
11	1234678-HpCDF	39.44	7.885e2	1.174e3	1.238	0.67	1.05	13.4	YES	YES	bb	bb	0.208

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.63	1.979e2	1.208e3	1.244	0.16	0.77	4.5	YES	YES	bb	bd	0.139

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.74	3.074e2	2.131e2	1.058	1.44	1.55	3.8	YES	NO	MM	bb	0.068

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.91	5.142e2	2.687e2	0.981	1.91	1.24	7.3	YES	YES	bb	MM	0.111
2	123678-HxCDD	36.50	3.545e2	2.753e2	1.040	1.29	1.24	5.6	YES	NO	bb	db	0.081
3	123478-HxCDD	36.39	3.781e2	2.170e2	1.119	1.74	1.24	4.7	YES	YES	bb	bd	0.077
4	Total-hexadioxins	34.21	7.680e2	4.990e2	1.047	1.54	1.24	8.5	YES	YES	bb	bb	0.168

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.24	1.837e3	1.446e3	1.132	1.27	1.05	21.0	YES	YES	bb	bb	0.549
2	Total-heptadioxins	40.11	1.423e2	7.481e1	1.132	1.90	1.05	4.1	YES	YES	db	db	0.036
3	Total-heptadioxins	39.98	4.685e3	3.920e3	1.132	1.20	1.05	60.5	YES	NO	bd	bd	1.439

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.63	1.979e2	1.208e3	1.244	0.16	0.77	4.5	YES	YES	bb	bd	0.139
2	12378-PeCDD	31.74	3.074e2	2.131e2	1.058	1.44	1.55	3.8	YES	NO	MM	bb	0.068
3	123789-HxCDD	36.91	5.142e2	2.687e2	0.981	1.91	1.24	7.3	YES	YES	bb	MM	0.111
4	123678-HxCDD	36.50	3.545e2	2.753e2	1.040	1.29	1.24	5.6	YES	NO	bb	db	0.081
5	123478-HxCDD	36.39	3.781e2	2.170e2	1.119	1.74	1.24	4.7	YES	YES	bb	bd	0.077
6	Total-hexadioxins	34.21	7.680e2	4.990e2	1.047	1.54	1.24	8.5	YES	YES	bb	bb	0.168
7	OCDD	47.10	8.630e3	9.142e3	1.117	0.94	0.89	73.2	YES	NO	bd	bb	5.213
8	1234678-HpCDD	41.24	1.837e3	1.446e3	1.132	1.27	1.05	21.0	YES	YES	bb	bb	0.549
9	Total-heptadioxins	40.11	1.423e2	7.481e1	1.132	1.90	1.05	4.1	YES	YES	db	db	0.036
10	Total-heptadioxins	39.98	4.685e3	3.920e3	1.132	1.20	1.05	60.5	YES	NO	bd	bd	1.439

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.15	8.467e2	6.408e2	0.977	1.32	1.55	7.3	YES	NO	MM	db	0.114
2	Total-pentafurans	28.99	3.155e2	3.116e2	0.998	1.01	1.55	4.5	YES	YES	bd	bd	0.047
3	123478-HxCDF	35.15	5.094e2	2.992e2	1.150	1.70	1.24	6.4	YES	YES	MM	MM	0.074
4	Total-hexafurans	33.65	2.220e2	1.639e2	1.138	1.35	1.24	6.2	YES	NO	dd	dd	0.038
5	Total-hexafurans	33.41	5.351e2	3.854e2	1.138	1.39	1.24	10.2	YES	NO	bd	bd	0.090
6	123789-HxCDF	37.38	2.418e2	2.912e2	1.116	0.83	1.24	5.9	YES	YES	MM	bb	0.073
7	234678-HxCDF	36.25	3.981e2	3.354e2	1.188	1.19	1.24	8.4	YES	NO	bb	bb	0.070
8	123678-HxCDF	35.29	6.186e2	4.549e2	1.100	1.36	1.24	12.0	YES	NO	bb	db	0.091
9	OCDF	47.40	5.431e2	7.403e2	1.321	0.73	0.89	6.2	YES	YES	MM	MM	0.318
10	Total-heptafurans	40.22	9.677e2	6.731e2	1.248	1.44	1.05	17.9	YES	YES	bb	bb	0.210
11	1234678-HpCDF	39.44	7.885e2	1.174e3	1.238	0.67	1.05	13.4	YES	YES	bb	bb	0.208
12	2378-TCDD	26.63	1.979e2	1.208e3	1.244	0.16	0.77	4.5	YES	YES	bb	bd	0.139
13	12378-PeCDD	31.74	3.074e2	2.131e2	1.058	1.44	1.55	3.8	YES	NO	MM	bb	0.068
14	123789-HxCDD	36.91	5.142e2	2.687e2	0.981	1.91	1.24	7.3	YES	YES	bb	MM	0.111
15	123678-HxCDD	36.50	3.545e2	2.753e2	1.040	1.29	1.24	5.6	YES	NO	bb	db	0.081
16	123478-HxCDD	36.39	3.781e2	2.170e2	1.119	1.74	1.24	4.7	YES	YES	bb	bd	0.077
17	Total-hexadioxins	34.21	7.680e2	4.990e2	1.047	1.54	1.24	8.5	YES	YES	bb	bb	0.168
18	OCDD	47.10	8.630e3	9.142e3	1.117	0.94	0.89	73.2	YES	NO	bd	bb	5.213
19	1234678-HpCDD	41.24	1.837e3	1.446e3	1.132	1.27	1.05	21.0	YES	YES	bb	bb	0.549
20	Total-heptadioxins	40.11	1.423e2	7.481e1	1.132	1.90	1.05	4.1	YES	YES	db	db	0.036
21	Total-heptadioxins	39.98	4.685e3	3.920e3	1.132	1.20	1.05	60.5	YES	NO	bd	bd	1.439

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.34	2.587e4					0.8	NO		db		
2	FUNCTION1 PFK	21.21	4.236e4					1.3	NO		bd		
3	FUNCTION1 PFK	26.39	4.660e4					1.3	NO		db		
4	FUNCTION1 PFK	26.33	4.567e4					1.3	NO		bd		
5	FUNCTION1 PFK	26.12	2.511e4					0.9	NO		bb		
6	FUNCTION1 PFK	25.85	5.682e4					1.2	NO		bb		
7	FUNCTION1 PFK	25.51	1.038e5					1.8	NO		bb		
8	FUNCTION1 PFK	25.05	5.818e4					1.2	NO		bb		
9	FUNCTION1 PFK	24.79	5.676e4					1.3	NO		bb		
10	FUNCTION1 PFK	24.42	7.070e4					1.4	NO		bb		
11	FUNCTION1 PFK	24.00	1.787e5					2.1	NO		bb		
12	FUNCTION1 PFK	23.81	1.109e5					1.5	NO		bb		
13	FUNCTION1 PFK	23.61	9.217e4					1.9	NO		bb		
14	FUNCTION1 PFK	23.31	5.005e4					1.6	NO		db		
15	FUNCTION1 PFK	23.24	1.160e5					2.1	NO		bd		
16	FUNCTION1 PFK	22.84	6.382e4					1.7	NO		bb		
17	FUNCTION1 PFK	22.51	3.596e4					1.0	NO		bb		
18	FUNCTION1 PFK	21.98	4.289e4					0.9	NO		bb		
19	FUNCTION1 PFK	28.23	2.432e4					0.9	NO		bb		
20	FUNCTION1 PFK	26.63	3.098e4					0.8	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.69	3.187e3					1.3	NO		bb		0.000
2	FUNCTION2 PFK	31.38	1.267e4					2.4	NO		bb		0.000
3	FUNCTION2 PFK	31.03	5.514e3					1.7	NO		bb		0.000
4	FUNCTION2 PFK	28.70	1.997e3					1.0	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.08	8.247e4					1.8	NO		bb		0.000
2	FUNCTION3 PFK	34.97	2.485e4					0.9	NO		bb		0.000
3	FUNCTION3 PFK	34.68	5.369e4					2.2	NO		bb		0.000
4	FUNCTION3 PFK	34.20	3.677e4					1.9	NO		bb		0.000
5	FUNCTION3 PFK	34.14	9.523e4					3.5	YES		db		0.000
6	FUNCTION3 PFK	34.03	5.861e4					2.7	NO		dd		0.000
7	FUNCTION3 PFK	33.98	2.257e4					1.4	NO		bd		0.000
8	FUNCTION3 PFK	33.48	7.541e4					2.5	NO		bb		0.000
9	FUNCTION3 PFK	38.27	7.921e4					2.4	NO		bb		0.000
10	FUNCTION3 PFK	37.40	3.988e4					1.8	NO		bb		0.000
11	FUNCTION3 PFK	36.77	5.757e4					2.4	NO		bb		0.000
12	FUNCTION3 PFK	36.32	1.727e4					1.0	NO		bb		0.000
13	FUNCTION3 PFK	35.75	3.943e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	35.54	9.348e4					3.0	NO		bb		0.000
15	FUNCTION3 PFK	35.33	6.275e4					2.3	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.92	2.894e4					2.2	NO		bb		
2	FUNCTION4 PFK	40.03	4.962e4					2.3	NO		bb		
3	FUNCTION4 PFK	39.46	3.805e4					2.2	NO		db		
4	FUNCTION4 PFK	39.39	2.826e4					1.8	NO		bd		
5	FUNCTION4 PFK	39.20	2.553e3					0.6	NO		bb		
6	FUNCTION4 PFK	38.94	1.336e4					1.3	NO		bb		
7	FUNCTION4 PFK	38.85	3.351e4					1.6	NO		bb		
8	FUNCTION4 PFK	38.72	1.506e4					1.4	NO		bb		
9	FUNCTION4 PFK	44.13	1.194e4					1.2	NO		bb		
10	FUNCTION4 PFK	43.87	2.381e3					0.5	NO		bb		
11	FUNCTION4 PFK	43.13	3.300e4					1.6	NO		bb		
12	FUNCTION4 PFK	41.94	7.076e3					0.9	NO		bb		
13	FUNCTION4 PFK	41.70	1.529e4					1.4	NO		db		
14	FUNCTION4 PFK	41.65	8.520e3					1.0	NO		bd		
15	FUNCTION4 PFK	41.36	4.320e4					2.4	NO		bb		
16	FUNCTION4 PFK	41.11	5.102e4					2.1	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.15	3.082e3					0.8	NO		bb		
2	FUNCTION5 PFK	45.12	3.752e3					0.7	NO		db		
3	FUNCTION5 PFK	45.08	5.084e3					1.0	NO		bd		
4	FUNCTION5 PFK	45.02	1.759e3					0.5	NO		bb		
5	FUNCTION5 PFK	44.63	4.281e3					0.9	NO		db		
6	FUNCTION5 PFK	44.60	3.127e3					0.7	NO		bd		
7	FUNCTION5 PFK	44.55	1.947e3					0.6	NO		bb		
8	FUNCTION5 PFK	46.84	7.153e2					0.3	NO		bb		
9	FUNCTION5 PFK	46.58	6.102e3					0.8	NO		bb		
10	FUNCTION5 PFK	46.41	1.038e3					0.5	NO		bb		
11	FUNCTION5 PFK	46.33	2.043e3					0.7	NO		bb		
12	FUNCTION5 PFK	46.29	6.512e3					1.3	NO		bb		
13	FUNCTION5 PFK	46.15	4.991e3					0.9	NO		db		
14	FUNCTION5 PFK	46.10	7.102e3					1.2	NO		bd		
15	FUNCTION5 PFK	46.06	4.199e3					0.9	NO		bb		
16	FUNCTION5 PFK	45.99	8.405e2					0.4	NO		bb		
17	FUNCTION5 PFK	45.76	4.871e3					1.0	NO		bb		
18	FUNCTION5 PFK	45.72	7.181e3					1.3	NO		db		
19	FUNCTION5 PFK	45.68	6.980e3					1.1	NO		dd		
20	FUNCTION5 PFK	45.61	2.085e4					2.3	NO		bd		
21	FUNCTION5 PFK	45.56	3.720e3					0.9	NO		bb		
22	FUNCTION5 PFK	45.42	8.290e3					1.2	NO		bb		
23	FUNCTION5 PFK	45.19	1.828e3					0.5	NO		bb		
24	FUNCTION5 PFK	48.34	1.757e4					1.8	NO		db		
25	FUNCTION5 PFK	48.25	2.085e4					1.8	NO		bd		
26	FUNCTION5 PFK	48.16	3.159e3					0.9	NO		bb		
27	FUNCTION5 PFK	48.01	5.807e3					1.2	NO		bb		
28	FUNCTION5 PFK	47.92	5.897e3					1.3	NO		bb		
29	FUNCTION5 PFK	47.84	7.670e3					1.0	NO		db		
30	FUNCTION5 PFK	47.77	1.244e4					1.6	NO		bd		
31	FUNCTION5 PFK	47.73	5.809e3					1.3	NO		db		
32	FUNCTION5 PFK	47.69	1.746e4					2.0	NO		dd		
33	FUNCTION5 PFK	47.65	4.166e3					1.0	NO		bd		
34	FUNCTION5 PFK	47.41	6.195e3					1.1	NO		db		
35	FUNCTION5 PFK	47.37	4.625e3					1.1	NO		bd		
36	FUNCTION5 PFK	47.29	8.376e3					1.2	NO		bb		
37	FUNCTION5 PFK	47.12	7.804e2					0.4	NO		bb		
38	FUNCTION5 PFK	47.04	3.717e3					0.9	NO		bb		
39	FUNCTION5 PFK	46.93	1.890e3					0.9	NO		bb		
40	FUNCTION5 PFK	49.43	2.051e3					0.5	NO		bb		
41	FUNCTION5 PFK	49.39	3.084e3					0.7	NO		bb		
42	FUNCTION5 PFK	49.36	4.283e3					1.3	NO		bb		
43	FUNCTION5 PFK	49.32	2.661e3					0.9	NO		bb		
44	FUNCTION5 PFK	49.21	1.832e3					0.3	NO		bb		
45	FUNCTION5 PFK	49.17	6.177e3					1.4	NO		bb		
46	FUNCTION5 PFK	49.11	2.937e3					0.8	NO		db		
47	FUNCTION5 PFK	49.05	6.456e3					1.1	NO		dd		
48	FUNCTION5 PFK	49.03	1.082e4					1.4	NO		bd		
49	FUNCTION5 PFK	48.90	6.650e3					1.1	NO		bb		
50	FUNCTION5 PFK	48.83	9.960e3					1.0	NO		bb		
51	FUNCTION5 PFK	48.74	9.926e2					0.5	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
52	FUNCTION5 PFK	48.70	1.233e3					0.6	NO		bb		
53	FUNCTION5 PFK	48.67	1.114e3					0.5	NO		bb		
54	FUNCTION5 PFK	48.55	5.191e3					1.0	NO		bb		
55	FUNCTION5 PFK	48.46	4.306e3					0.9	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.06	2.064e3					28.8	YES		bb		0.000
2	FUNCTION1 HXCD...	25.79	8.079e2					10.3	YES		bb		0.000
3	FUNCTION1 HXCD...	25.56	7.063e1					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	23.30	7.951e1					2.7	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.63	7.468e1					1.4	NO		bb		0.000
2	FUNCTION1 HPCD...	27.26	9.250e1					2.7	NO		bb		0.000
3	FUNCTION1 HPCD...	24.81	1.083e2					1.9	NO		bb		0.000
4	FUNCTION1 HPCD...	23.69	9.016e1					1.7	NO		bb		0.000
5	FUNCTION1 HPCD...	22.31	1.826e2					3.4	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.33	1.029e2					2.3	NO		bb		0.000
2	FUNCTION2 HPCD...	28.76	7.470e1					1.6	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	33.23	1.106e2					2.8	NO		bb		0.000
2	FUNCTION3 OCDPE	38.39	7.468e1					1.3	NO		bb		0.000
3	FUNCTION3 OCDPE	35.89	8.736e1					1.9	NO		db		0.000
4	FUNCTION3 OCDPE	35.83	7.633e1					2.4	NO		dd		0.000
5	FUNCTION3 OCDPE	35.77	7.179e1					2.0	NO		bd		0.000
6	FUNCTION3 OCDPE	35.33	7.514e1					1.5	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	43.93	7.596e1					2.6	NO		bb		0.000
2	FUNCTION4 NCDPE	40.80	3.564e2					3.6	YES		bb		0.000
3	FUNCTION4 NCDPE	40.69	1.150e2					2.5	NO		bb		0.000
4	FUNCTION4 NCDPE	39.89	9.261e1					2.6	NO		bb		0.000
5	FUNCTION4 NCDPE	39.03	9.503e1					3.0	YES		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

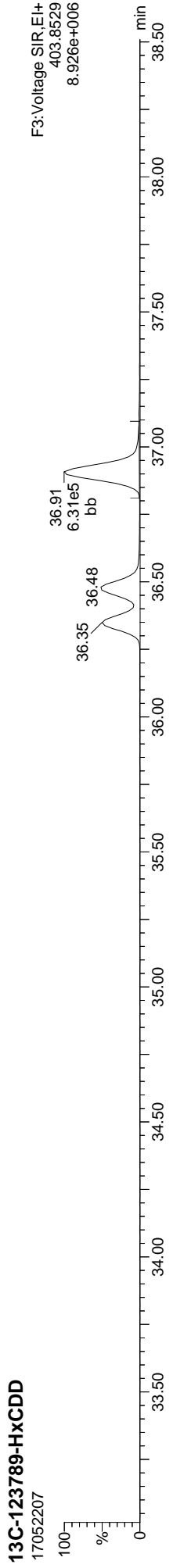
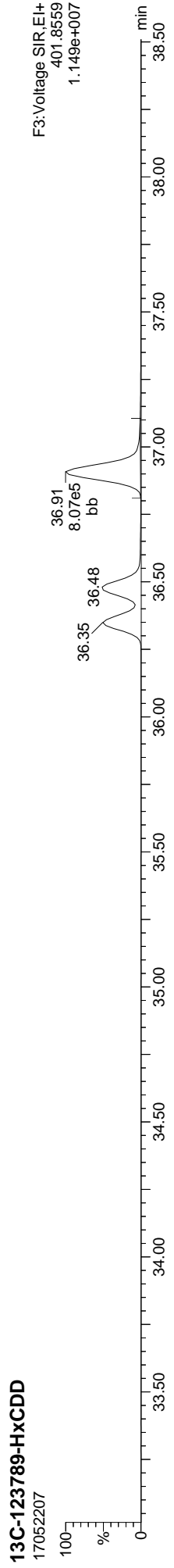
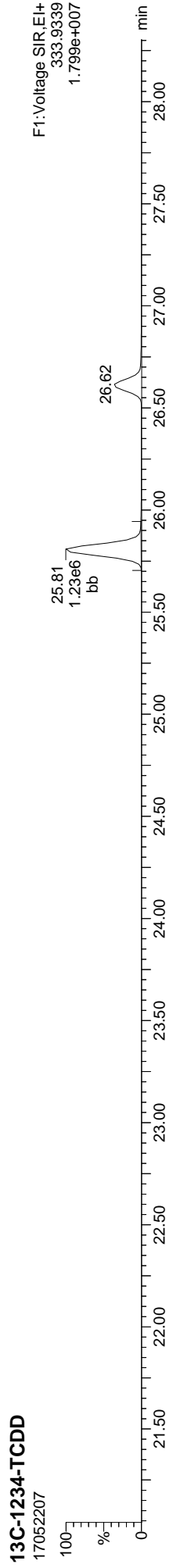
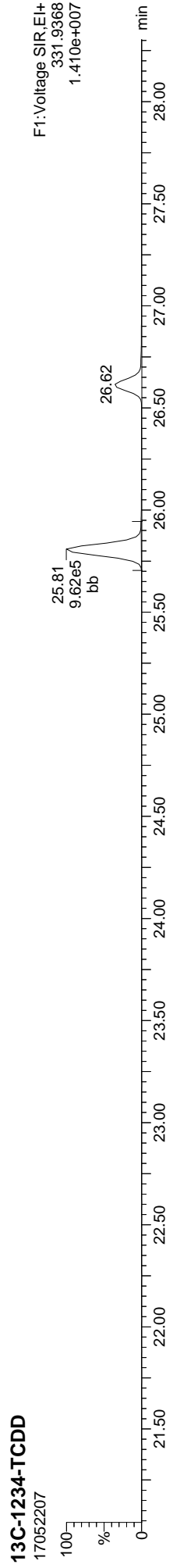
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	47.57	7.296e1					1.5	NO		bb		0.000
2	FUNCTION5 DCDPE	45.63	8.437e1					1.8	NO		bb		0.000
3	FUNCTION5 DCDPE	45.28	9.806e1					2.7	NO		bb		0.000

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

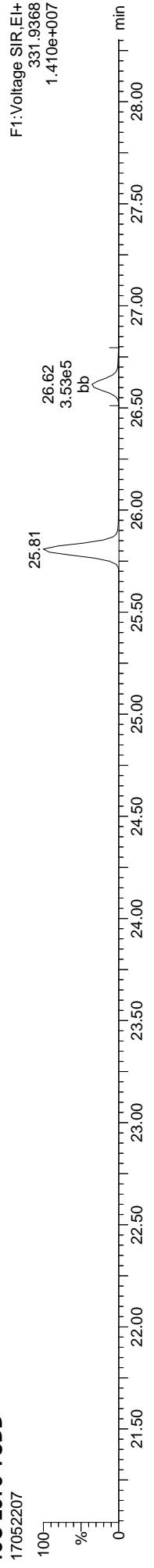
ID: 17D0421-02, **Name:** 170522207, **Date:** 22-May-2017, **Time:** 14:43:50, **Conditions:** AUTOSPEC01, **User:** PK



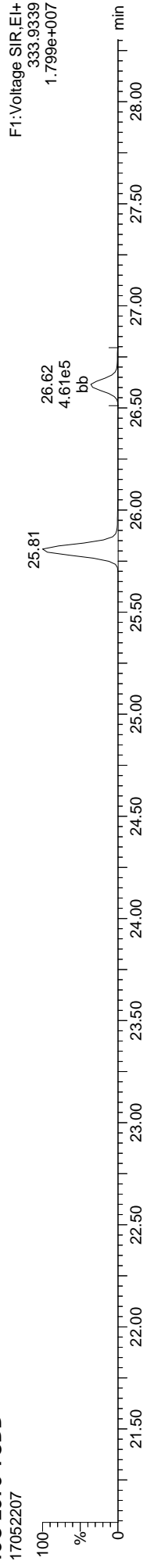
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

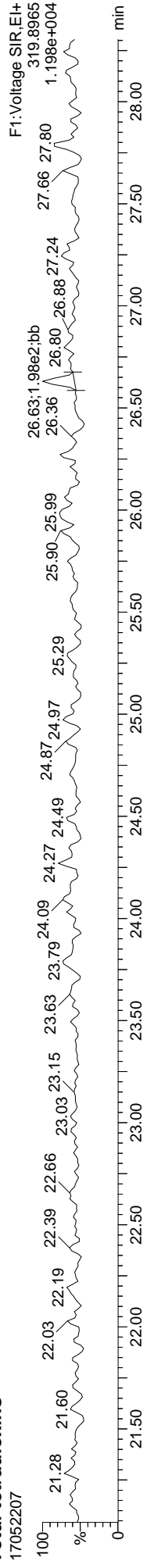
13C-2378-TCDD



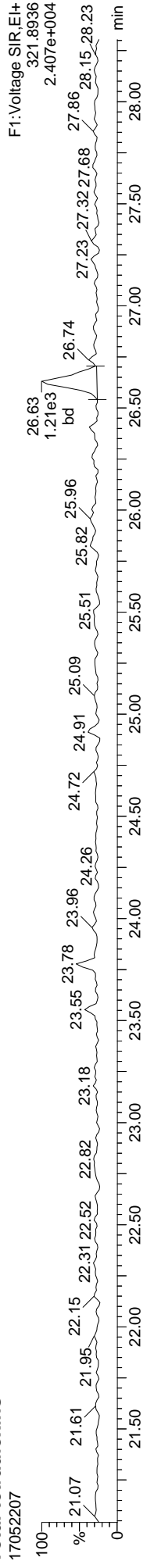
13C-2378-TCDD



Total-tetradioxins



Total-tetradioxins



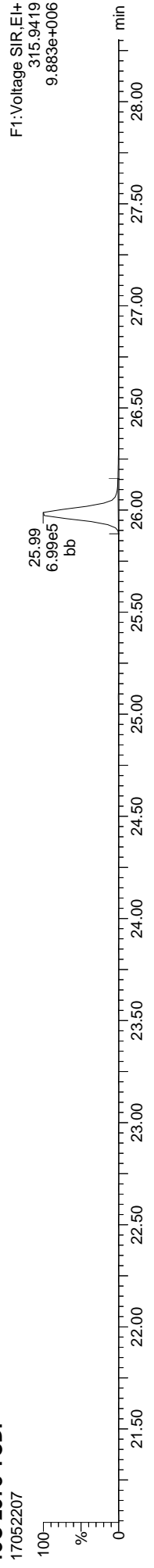
FUNCTION1 PFK



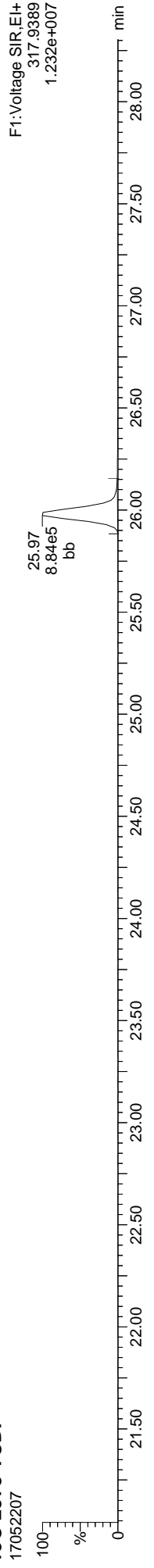
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

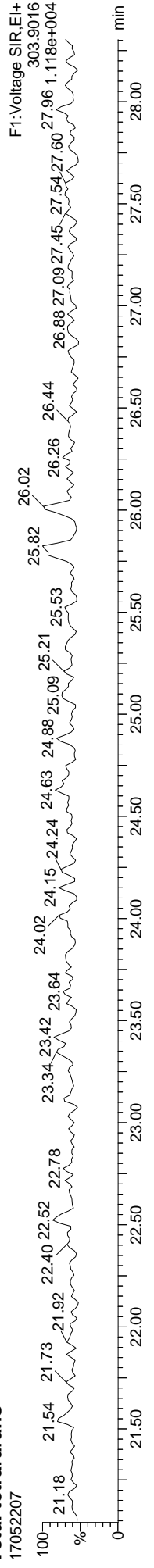
13C-2378-TCDF



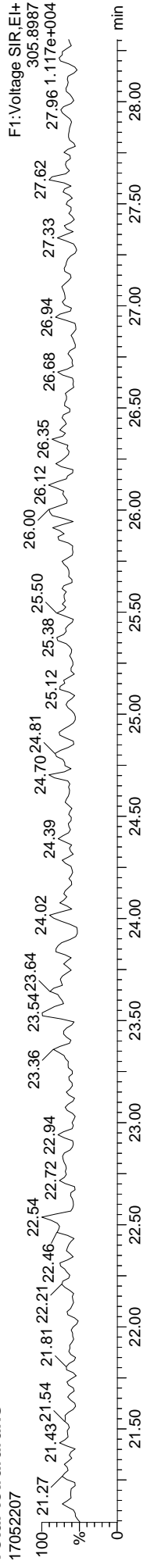
13C-2378-TCDF



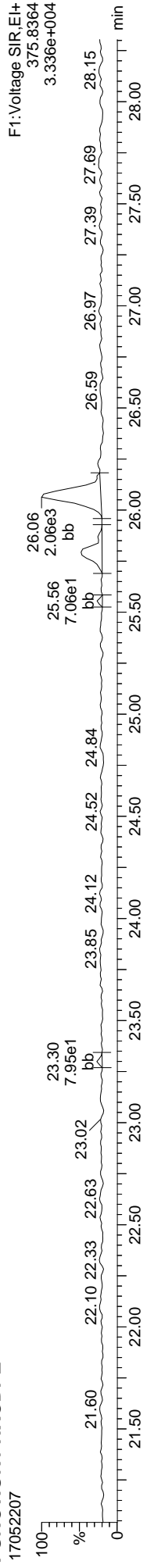
Total-tetrafurans



Total-tetrafurans



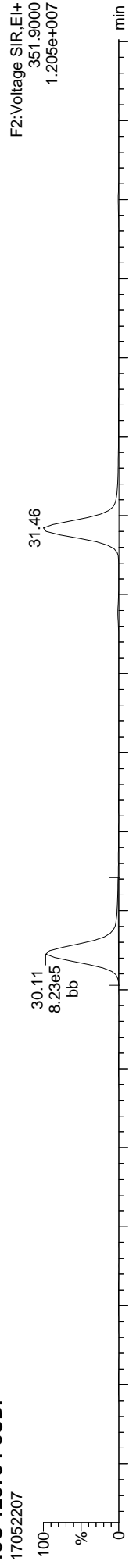
FUNCTION1 HXCDFE



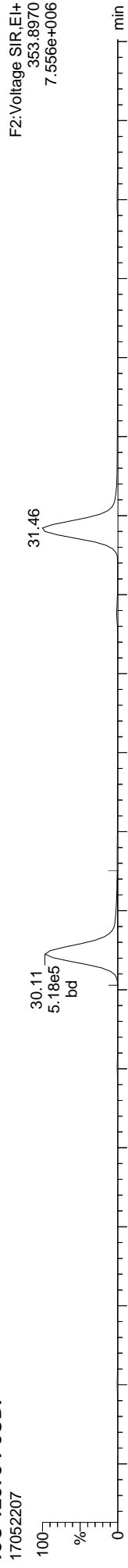
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 170522207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

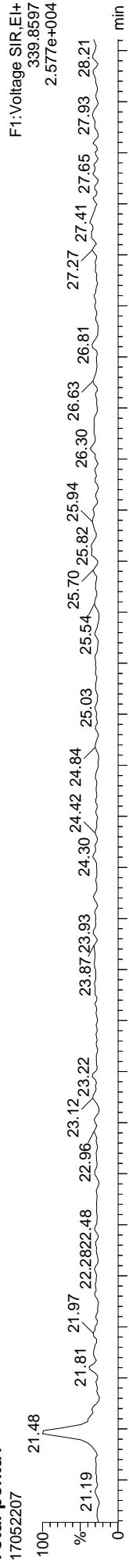
13C-12378-PeCDF



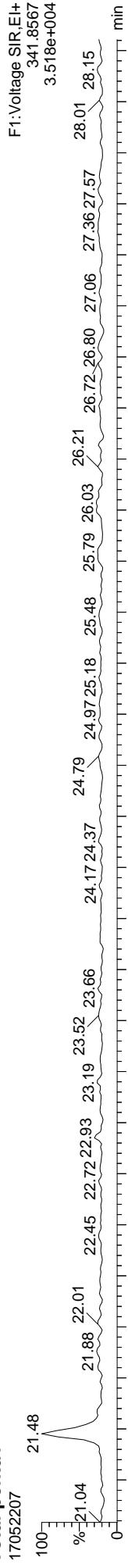
13C-12378-PeCDF



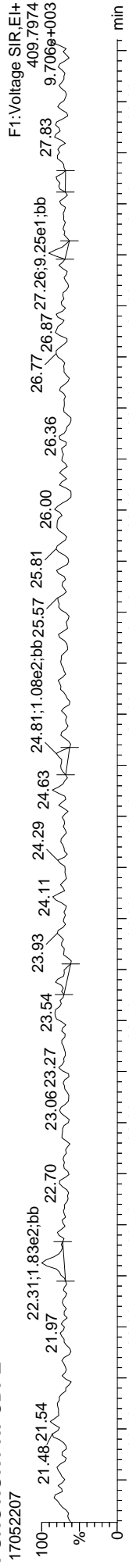
Total-penta1



Total-penta1



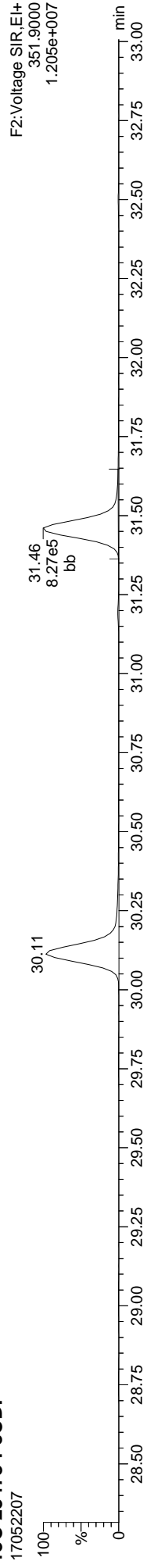
FUNCTION1 HPCDFE



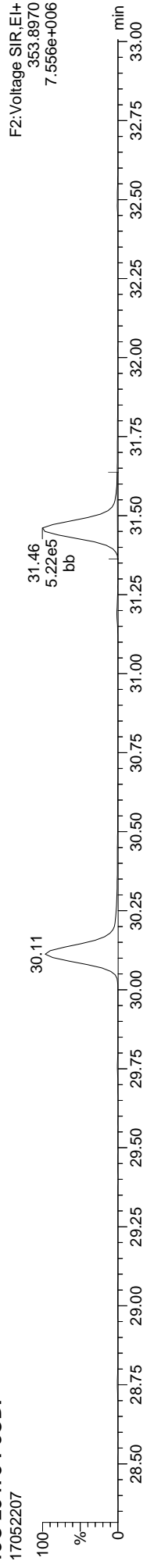
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

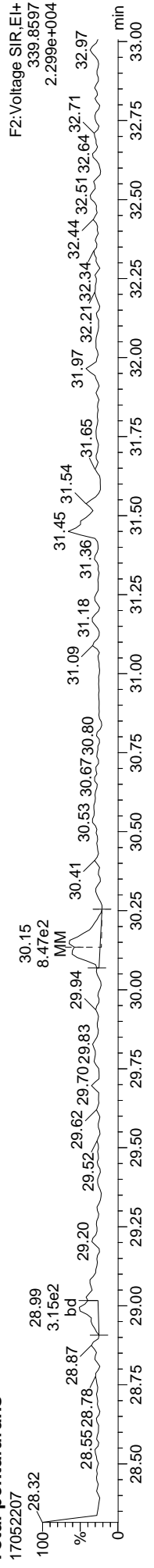
13C-23478-PeCDF



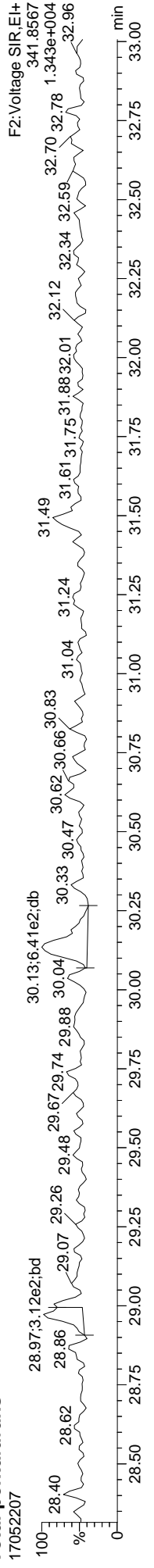
13C-23478-PeCDF



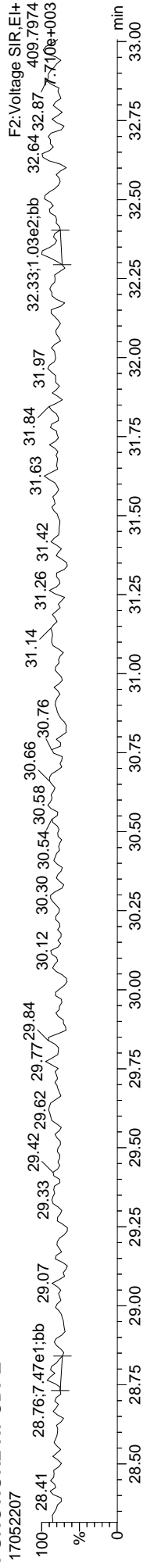
Total-pentafurans



Total-pentafurans



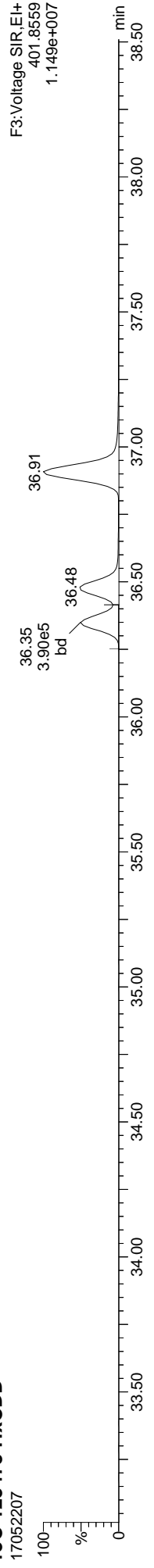
FUNCTION2 HPCDPE



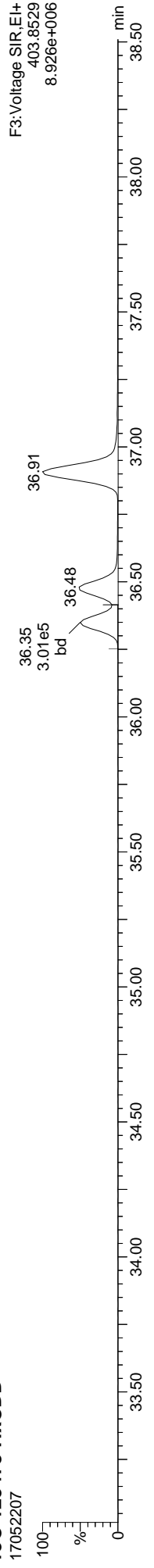
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

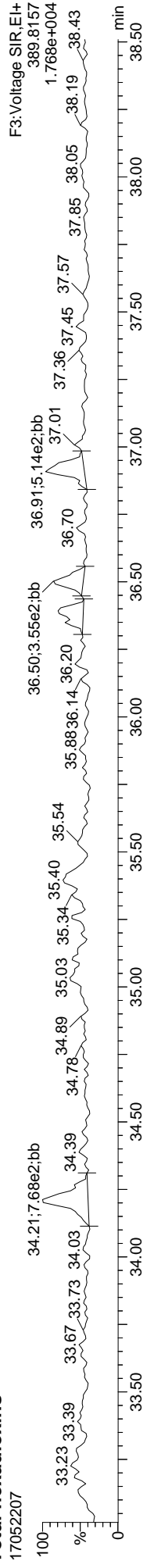
13C-123478-HxCDD



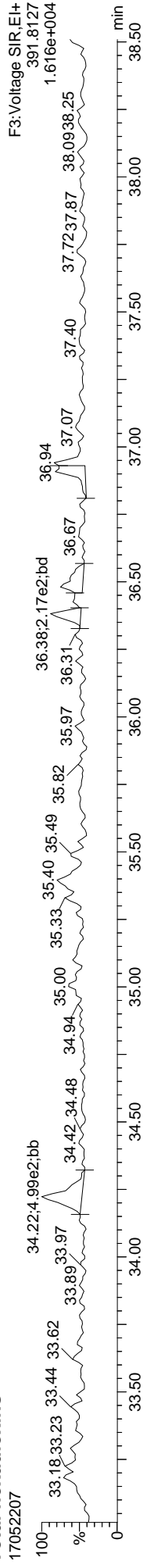
13C-123478-HxCDD



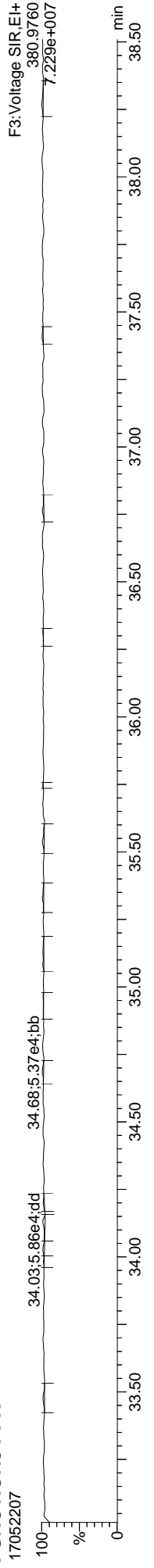
Total-hexadioxins



Total-hexadioxins



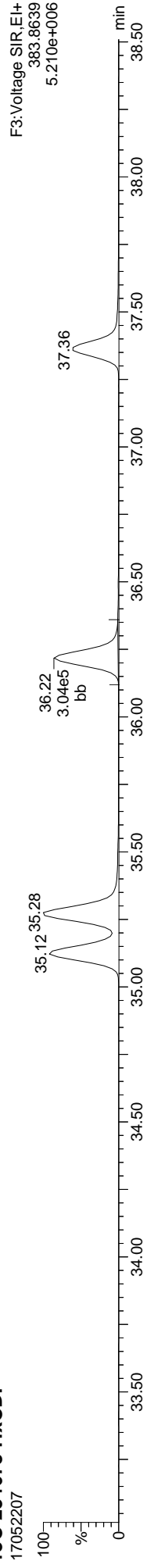
FUNCTION3 PFK



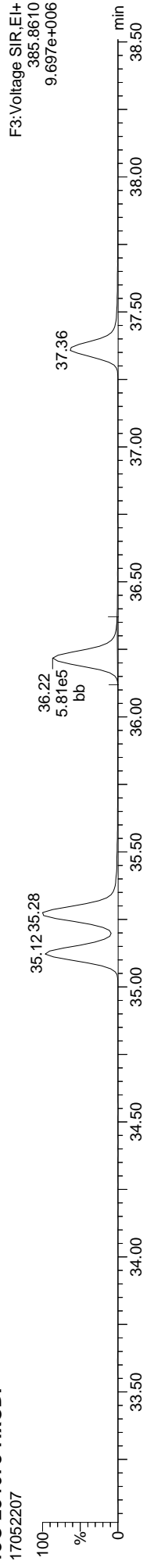
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

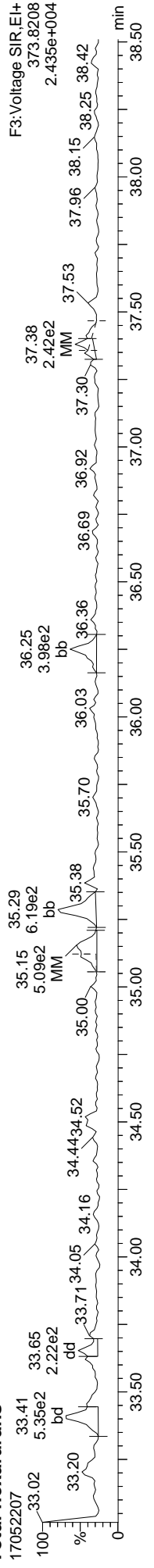
13C-234678-HxCDF



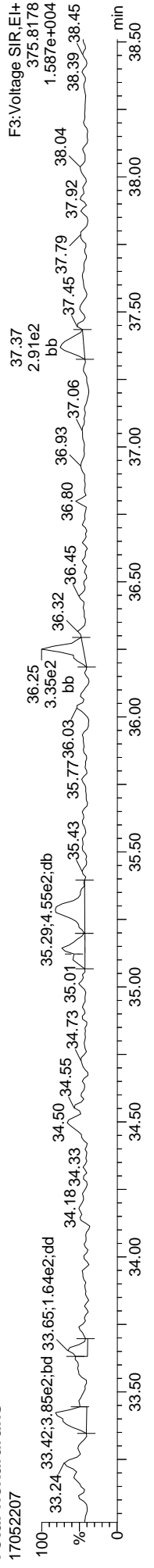
13C-234678-HxCDF



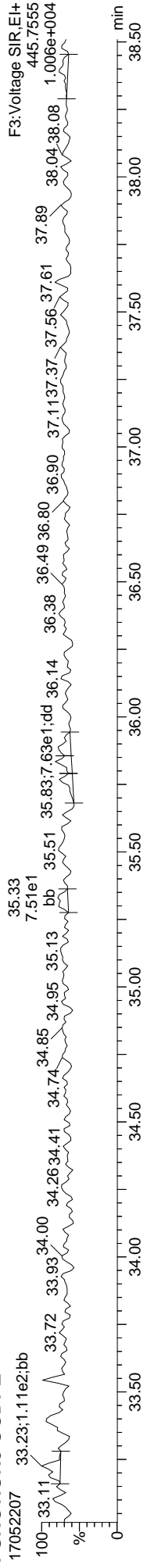
Total-hexafurans



Total-hexafurans



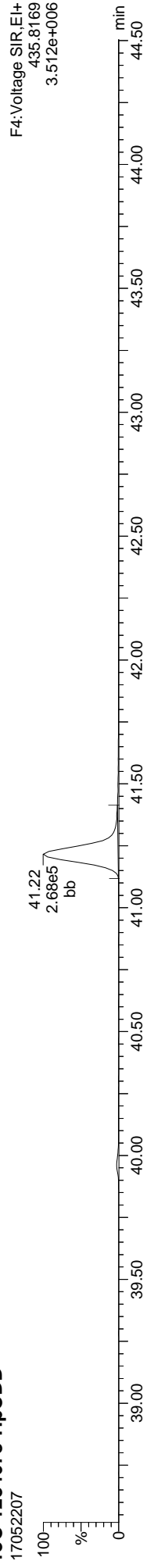
FUNCTION3 OCDPE



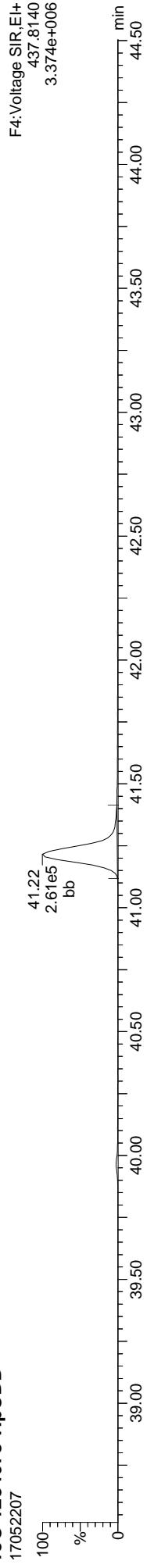
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

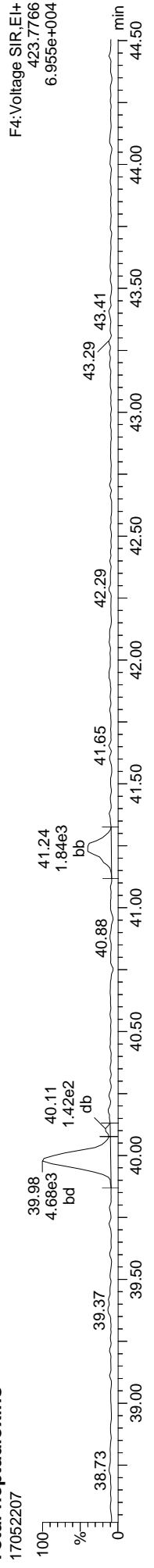
13C-1234678-HpCDD



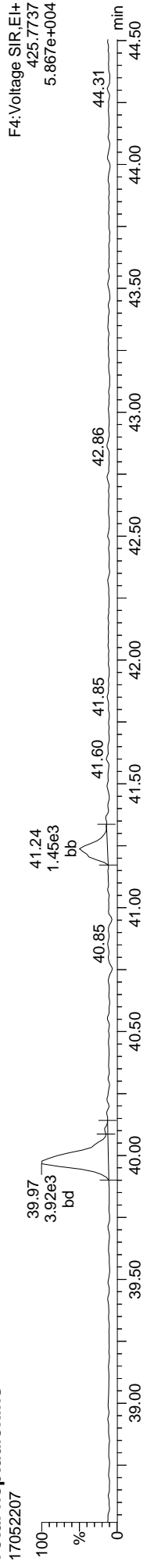
13C-1234678-HpCDD



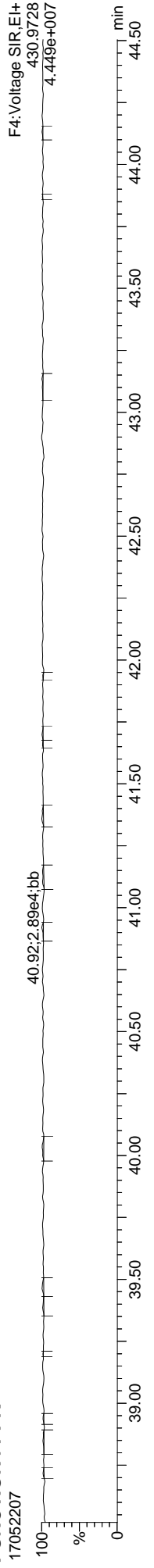
Total-heptadioxins



Total-heptadioxins



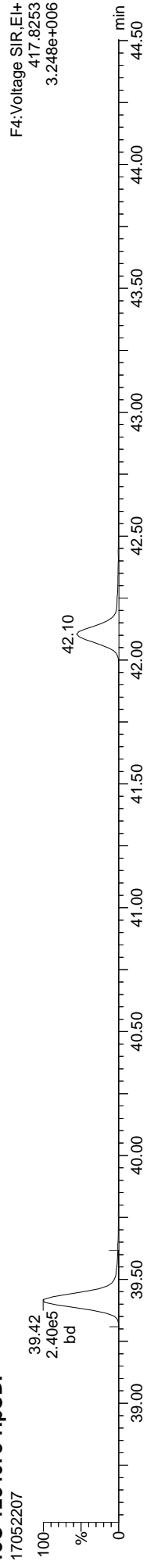
FUNCTION4 PFK



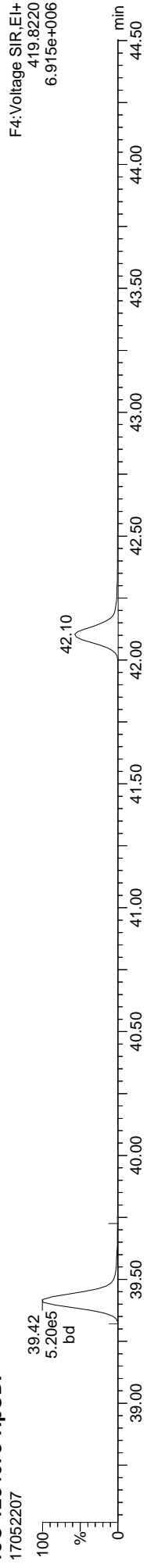
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 170522207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

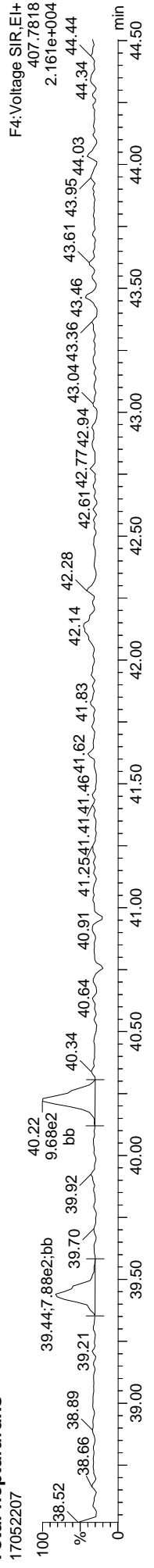
13C-1234678-HpCDF



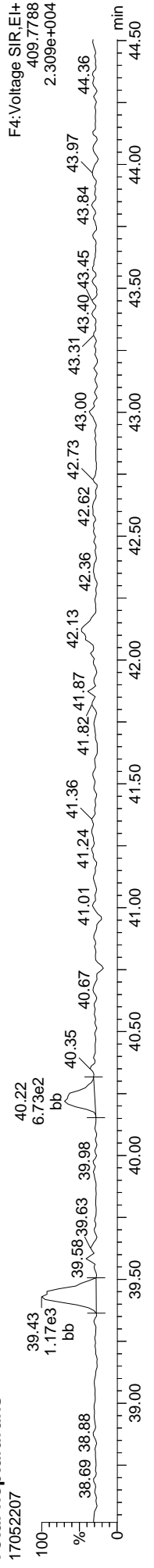
13C-1234678-HpCDF



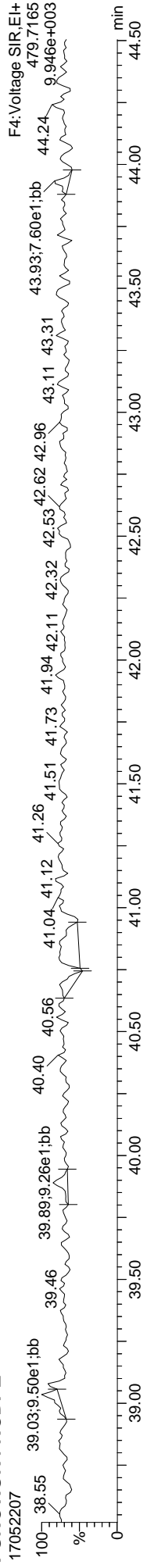
Total-heptafurans



Total-heptafurans



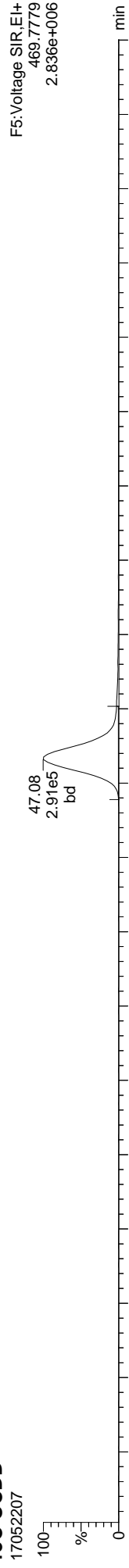
FUNCTION4 NCDPE



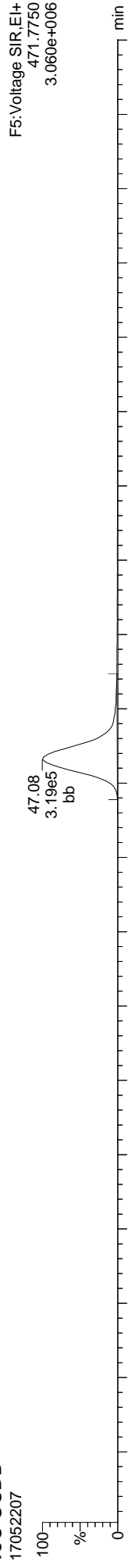
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

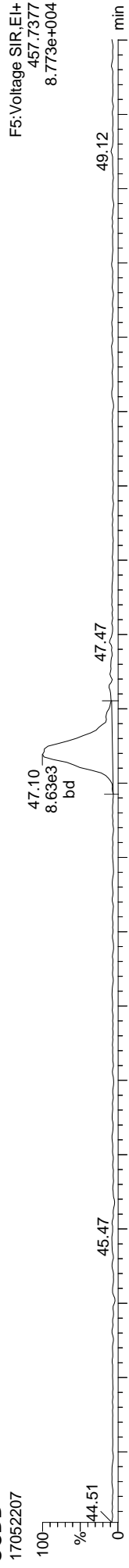
13C-OCDD



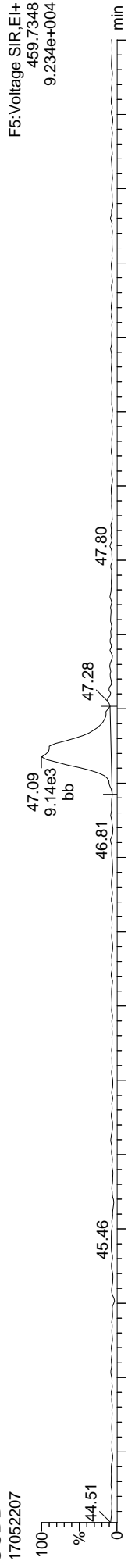
13C-OCDD



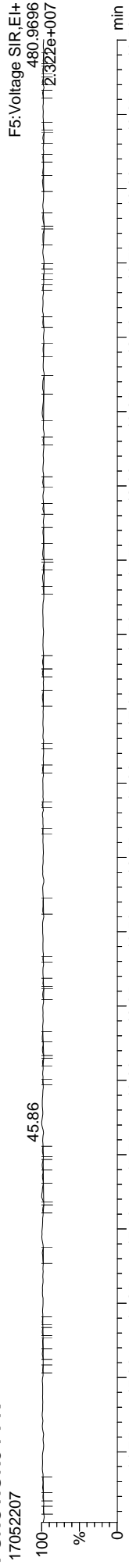
OCDD



OCDD



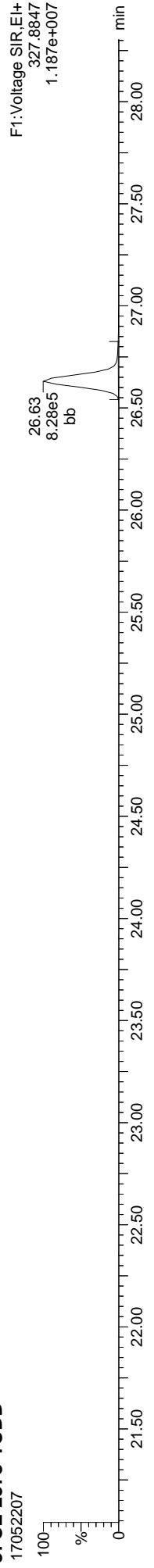
FUNCTION5 PFK



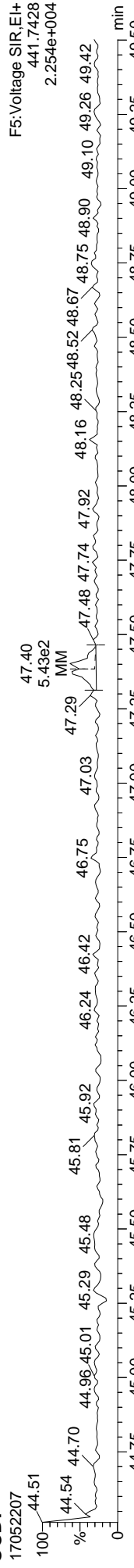
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:03 Pacific Daylight Time

ID: 17D0421-02, Name: 17052207, Date: 22-May-2017, Time: 14:43:50, Conditions: AUTOSPEC01, User: PK

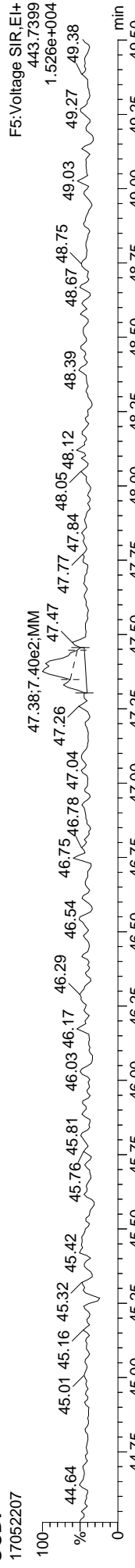
37CL-2378-TCDD



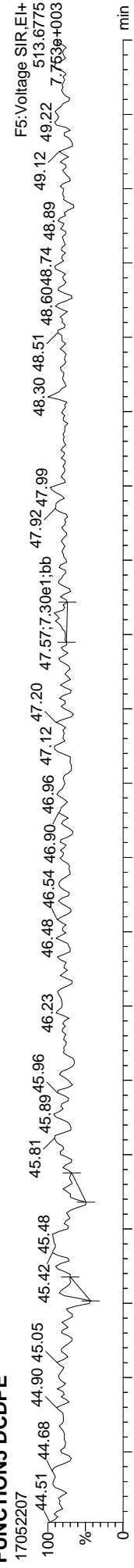
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-03 File ID: 17052208
 Sampled: 04/24/17 11:00 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 15:37
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.03 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.048	0.997	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.061	0.997	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	2.884	1.318-1.783		4.99	0.069	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	0.682	1.318-1.783		4.99	0.074	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.130	4.99	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.081	4.99	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	2.061	1.054-1.426		4.99	0.081	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.299	1.054-1.426		4.99	0.092	ng/kg	J, B
72918-21-9	1,2,3,7,8,9-HxCDF	1	2.755	1.054-1.426		4.99	0.117	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.077	4.99	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.075	4.99	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.123	1.054-1.426		4.99	0.103	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.784	0.893-1.208		4.99	0.170	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.213	0.893-1.208		4.99	0.041	ng/kg	EMPC, J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.311	0.893-1.208		4.99	0.601	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.783	0.757-1.024		9.97	0.452	ng/kg	J, B
3268-87-9	OCDD	1	0.914	0.757-1.024		9.97	4.78	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.997	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.997	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.997	0.143	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.997	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.997	0.290	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.997	0.232	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.997	0.378	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.997	2.10	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.073
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.073



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-03</u>
Sampled:	<u>04/24/17 11:00</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052208</u>
		Analyzed:	<u>05/22/17 15:37</u>
		Initial/Final:	<u>10.03 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.790	0.655-0.886		63.0	24 - 169 %	
13C12-2,3,7,8-TCDD		0.781	0.655-0.886		62.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.660	1.318-1.783		55.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.584	1.318-1.783		56.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.639	1.318-1.783		55.8	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.524	0.434-0.587		55.0	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.529	0.434-0.587		53.2	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.522	0.434-0.587		57.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.526	0.434-0.587		57.6	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.338	1.054-1.426		60.0	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.237	1.054-1.426		58.3	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506		56.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.460	0.374-0.506		61.0	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.084	0.893-1.208		64.8	23 - 140 %	
13C12-OCDD		0.900	0.757-1.024		53.8	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			92.2	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\DiDioxin170518.mdb **18 May 2017 15:01:42**
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb **19 May 2017 13:57:26**

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF					1.018		0.770	1438	1977									
12378-PeCDF	30.124	1.000	6.306e2	2.187e2	0.977	2.884	1.550	1377	1630	1.03e4	6.09e3	7.5	YES	YES	bb	bb	0.035	
23478-PeCDF	31.472	1.001	3.775e2	5.533e2	1.019	0.682	1.550	1377	1630	1.22e4	7.41e3	8.8	YES	YES	db	MM	0.037	
123478-HxCDF					1.150		1.240	2328	1595									
234678-HxCDF	36.240	1.000	5.218e2	4.016e2	1.188	1.299	1.240	2328	1595	9.49e3	7.46e3	4.1	YES	NO	dd	bb	0.046	
123678-HxCDF	35.297	1.000	5.799e2	2.814e2	1.100	2.061	1.240	2328	1595	7.69e3	6.64e3	3.3	YES	YES	dd	bb	0.041	
123789-HxCDF	37.380	1.000	6.607e2	2.398e2	1.116	2.755	1.240	2328	1595	1.17e4	5.39e3	5.0	YES	YES	dd	bb	0.058	
1234678-HpCDF	39.430	1.000	1.006e3	5.637e2	1.238	1.784	1.050	1139	1117	1.49e4	8.62e3	13.0	YES	YES	bb	bb	0.085	
1234789-HpCDF	42.126	1.000	1.541e2	1.270e2	1.257	1.213	1.050	1139	1117	4.00e3	4.63e3	3.5	YES	YES	db	db	0.021	
OCDF	47.394	1.007	9.713e2	1.240e3	1.321	0.783	0.890	2680	1218	1.15e4	1.44e4	4.3	YES	NO	MM	MM	0.227	
2378-TCDD					1.244		0.770	1413	1211									
12378-PeCDD					1.058		1.550	1584	2600									
123478-HxCDD					1.119		1.240	1525	1064									
123678-HxCDD					1.040		1.240	1525	1064									
123789-HxCDD	36.931	1.012	3.490e2	3.108e2	0.981	1.123	1.240	1525	1064	8.30e3	4.27e3	5.4	YES	NO	bb	bb	0.052	
1234678-HpCDD	41.238	1.000	2.150e3	1.640e3	1.132	1.311	1.050	837	827	2.43e4	2.10e4	29.0	YES	YES	bb	bb	0.301	
OCDD	47.106	1.001	9.427e3	1.032e4	1.117	0.914	0.890	971	1008	9.64e4	1.11e5	99.2	YES	NO	bb	bb	2.396	
13C-2378-TCDF	25.974	1.007	1.249e6	1.580e6	1.685	0.790	0.770	7647	4041	1.83e7	2.31e7	2392.9	YES	NO	bb	bb	63.032	
13C-12378-PeCDF	30.113	1.167	1.571e6	9.461e5	1.706	1.660	1.550	6450	2915	2.16e7	1.34e7	3347.4	YES	NO	bb	bb	55.382	
13C-23478-PeCDF	31.450	1.219	1.503e6	9.490e5	1.632	1.584	1.550	6450	2915	2.14e7	1.36e7	3322.1	YES	NO	bb	bb	56.390	
13C-123478-HxCDF	35.133	0.952	5.909e5	1.128e6	1.682	0.524	0.510	3898	5574	8.71e6	1.66e7	2234.6	YES	NO	bd	bd	54.989	
13C-123678-HxCDF	35.286	0.956	6.656e5	1.258e6	1.945	0.529	0.510	3898	5574	9.15e6	1.73e7	2348.0	YES	NO	dd	dd	53.222	
13C-234678-HxCDF	36.229	0.982	5.782e5	1.108e6	1.582	0.522	0.510	3898	5574	8.28e6	1.58e7	2123.3	YES	NO	bb	bb	57.357	
13C-123789-HxCDF	37.369	1.013	4.761e5	9.043e5	1.291	0.526	0.510	3898	5574	6.87e6	1.29e7	1762.8	YES	NO	bb	bb	57.570	
13C-1234678-HpCDF	39.419	1.068	4.636e5	1.026e6	1.427	0.452	0.440	2547	3155	6.42e6	1.42e7	2520.7	YES	NO	bd	bd	56.205	
13C-1234789-HpCDF	42.104	1.141	3.419e5	7.426e5	0.957	0.460	0.440	2547	3155	4.09e6	8.91e6	1606.9	YES	NO	bd	bb	61.008	
13C-1234-TCDD	25.794	0.000	1.173e6	1.492e6	1.000	0.786	0.770	3625	1970	1.77e7	2.25e7	4882.2	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.601	1.031	6.378e5	8.171e5	0.873	0.781	0.770	3625	1970	9.14e6	1.17e7	2521.3	YES	NO	bb	bb	62.560	
13C-12378-PeCDD	31.702	1.229	7.941e5	4.846e5	0.860	1.639	1.550	2249	1663	1.13e7	6.95e6	5042.7	YES	NO	bb	bb	55.795	
13C-123478-HxCDD	36.361	0.985	7.097e5	5.306e5	1.114	1.338	1.240	2845	2809	1.03e7	7.85e6	3611.4	YES	NO	bd	bd	59.951	
13C-123678-HxCDD	36.481	0.988	7.533e5	6.088e5	1.258	1.237	1.240	2845	2809	1.10e7	8.61e6	3871.5	YES	NO	db	dd	58.263	
13C-1234678-HpCDD	41.216	1.117	5.779e5	5.333e5	0.924	1.084	1.050	1660	1950	7.38e6	6.91e6	4447.1	YES	NO	bb	bb	64.763	
13C-OCDD	47.079	1.276	6.989e5	7.767e5	0.738	0.900	0.890	1819	1329	6.82e6	7.62e6	3748.3	YES	NO	bb	bb	107.576	
13C-123789-HxCDD	36.909	0.000	1.034e6	8.238e5	1.000	1.255	1.240	2845	2809	1.51e7	1.18e7	5291.4	YES	NO	bb	bb	100.000	
Total-tetrafurans			0.000e0		1.018			1438		0.00e0								

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld

Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					1252		0.00e0								
Total-pentafurans			1.008e3		0.998			1377		2.24e4								0.072
Total-hexafurans			1.762e3		1.138			2328		2.89e4								0.145
Total-heptafurans			1.732e3		1.248			1139		3.26e4								0.189
Total-Furans			5.638e3		1.138			1438		9.91e4								0.648
Total-tetradioxins			0.000e0		1.244			1413		0.00e0								
Total-pentadioxins			0.000e0		1.058			1584		0.00e0								
Total-hexadioxins			9.001e2		1.047			1525		1.89e4								0.116
Total-heptadioxins			7.000e3		1.132			837		1.01e5								1.052
Total-Dioxins			1.747e4		1.099			1413		2.19e5								3.588
Total-TEQ			2.311e4					1413		3.19e5								4.237
37CL-2378-TCDD	26.631	1.032	1.003e6		1.021			1417		1.44e7		10162.0	YES		bb			36.876
FUNCTION1 PFK			1.193e7					1187299		1.21e8								
FUNCTION2 PFK			8.068e5					224142		7.75e6								0.000
FUNCTION3 PFK			9.195e6					784975		7.06e7								0.000
FUNCTION4 PFK			1.335e5					456891		3.62e6								
FUNCTION5 PFK			2.818e5					299742		1.04e7								
FUNCTION1 HXCD...			2.168e3					1020		3.49e4								0.000
FUNCTION1 HPCD...			1.251e3					1062		2.12e4								0.000
FUNCTION2 HPCD...			9.327e2					840		1.73e4								0.000
FUNCTION3 OCDPE			3.141e2					899		6.27e3								0.000
FUNCTION4 NCDPE			3.210e2					977		7.86e3								0.000
FUNCTION5 DCDPE			1.893e2					777		3.29e3								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.47	3.775e2	5.533e2	1.019	0.68	1.55	8.8	YES	YES	db	MM	0.037
2	12378-PeCDF	30.12	6.306e2	2.187e2	0.977	2.88	1.55	7.5	YES	YES	bb	bb	0.035

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.38	6.607e2	2.398e2	1.116	2.76	1.24	5.0	YES	YES	dd	bb	0.058
2	234678-HxCDF	36.24	5.218e2	4.016e2	1.188	1.30	1.24	4.1	YES	NO	dd	bb	0.046
3	123678-HxCDF	35.30	5.799e2	2.814e2	1.100	2.06	1.24	3.3	YES	YES	dd	bb	0.041

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	42.13	1.541e2	1.270e2	1.257	1.21	1.05	3.5	YES	YES	db	db	0.021
2	Total-heptafurans	42.07	1.671e2	1.950e2	1.248	0.86	1.05	3.1	YES	YES	bd	dd	0.023
3	Total-heptafurans	40.22	4.050e2	5.772e2	1.248	0.70	1.05	9.0	YES	YES	bb	bb	0.061
4	1234678-HpCDF	39.43	1.006e3	5.637e2	1.238	1.78	1.05	13.0	YES	YES	bb	bb	0.085

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.76	7.829e1	8.444e1	1.138	0.93	0.77	1.2	NO	YES	bb	bb	0.005
2	Total-Furans	21.30	8.575e1	2.313e2	1.138	0.37	0.77	1.3	NO	YES	bb	dd	0.010
3	23478-PeCDF	31.47	3.775e2	5.533e2	1.019	0.68	1.55	8.8	YES	YES	db	MM	0.037
4	12378-PeCDF	30.12	6.306e2	2.187e2	0.977	2.88	1.55	7.5	YES	YES	bb	bb	0.035
5	123789-HxCDF	37.38	6.607e2	2.398e2	1.116	2.76	1.24	5.0	YES	YES	dd	bb	0.058
6	234678-HxCDF	36.24	5.218e2	4.016e2	1.188	1.30	1.24	4.1	YES	NO	dd	bb	0.046
7	123678-HxCDF	35.30	5.799e2	2.814e2	1.100	2.06	1.24	3.3	YES	YES	dd	bb	0.041
8	1234789-HpCDF	42.13	1.541e2	1.270e2	1.257	1.21	1.05	3.5	YES	YES	db	db	0.021
9	Total-heptafurans	42.07	1.671e2	1.950e2	1.248	0.86	1.05	3.1	YES	YES	bd	dd	0.023
10	Total-heptafurans	40.22	4.050e2	5.772e2	1.248	0.70	1.05	9.0	YES	YES	bb	bb	0.061
11	1234678-HpCDF	39.43	1.006e3	5.637e2	1.238	1.78	1.05	13.0	YES	YES	bb	bb	0.085
12	OCDF	47.39	9.713e2	1.240e3	1.321	0.78	0.89	4.3	YES	NO	MM	MM	0.227

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.21	5.511e2	3.300e2	1.047	1.67	1.24	7.0	YES	YES	bd	bb	0.065
2	123789-HxCDD	36.93	3.490e2	3.108e2	0.981	1.12	1.24	5.4	YES	NO	bb	bb	0.052

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.24	2.150e3	1.640e3	1.132	1.31	1.05	29.0	YES	YES	bb	bb	0.301
2	Total-heptadioxins	39.98	4.850e3	4.592e3	1.132	1.06	1.05	91.5	YES	NO	bb	bb	0.751

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Dioxins	22.36	1.456e2	2.301e2	1.099	0.63	0.77	2.4	NO	YES	bb	bb	0.024
2	Total-hexadioxins	34.21	5.511e2	3.300e2	1.047	1.67	1.24	7.0	YES	YES	bd	bb	0.065
3	123789-HxCDD	36.93	3.490e2	3.108e2	0.981	1.12	1.24	5.4	YES	NO	bb	bb	0.052
4	1234678-HpCDD	41.24	2.150e3	1.640e3	1.132	1.31	1.05	29.0	YES	YES	bb	bb	0.301
5	Total-heptadioxins	39.98	4.850e3	4.592e3	1.132	1.06	1.05	91.5	YES	NO	bb	bb	0.751
6	OCDD	47.11	9.427e3	1.032e4	1.117	0.91	0.89	99.2	YES	NO	bb	bb	2.396

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.76	7.829e1	8.444e1	1.138	0.93	0.77	1.2	NO	YES	bb	bb	0.005
2	Total-Furans	21.30	8.575e1	2.313e2	1.138	0.37	0.77	1.3	NO	YES	bb	dd	0.010
3	23478-PeCDF	31.47	3.775e2	5.533e2	1.019	0.68	1.55	8.8	YES	YES	db	MM	0.037
4	12378-PeCDF	30.12	6.306e2	2.187e2	0.977	2.88	1.55	7.5	YES	YES	bb	bb	0.035
5	123789-HxCDF	37.38	6.607e2	2.398e2	1.116	2.76	1.24	5.0	YES	YES	dd	bb	0.058
6	234678-HxCDF	36.24	5.218e2	4.016e2	1.188	1.30	1.24	4.1	YES	NO	dd	bb	0.046
7	123678-HxCDF	35.30	5.799e2	2.814e2	1.100	2.06	1.24	3.3	YES	YES	dd	bb	0.041
8	1234789-HpCDF	42.13	1.541e2	1.270e2	1.257	1.21	1.05	3.5	YES	YES	db	db	0.021
9	Total-heptafurans	42.07	1.671e2	1.950e2	1.248	0.86	1.05	3.1	YES	YES	bd	dd	0.023
10	Total-heptafurans	40.22	4.050e2	5.772e2	1.248	0.70	1.05	9.0	YES	YES	bb	bb	0.061
11	1234678-HpCDF	39.43	1.006e3	5.637e2	1.238	1.78	1.05	13.0	YES	YES	bb	bb	0.085
12	OCDF	47.39	9.713e2	1.240e3	1.321	0.78	0.89	4.3	YES	NO	MM	MM	0.227
13	Total-Dioxins	22.36	1.456e2	2.301e2	1.099	0.63	0.77	2.4	NO	YES	bb	bb	0.024
14	Total-hexadioxins	34.21	5.511e2	3.300e2	1.047	1.67	1.24	7.0	YES	YES	bd	bb	0.065
15	123789-HxCDD	36.93	3.490e2	3.108e2	0.981	1.12	1.24	5.4	YES	NO	bb	bb	0.052
16	1234678-HpCDD	41.24	2.150e3	1.640e3	1.132	1.31	1.05	29.0	YES	YES	bb	bb	0.301
17	Total-heptadioxins	39.98	4.850e3	4.592e3	1.132	1.06	1.05	91.5	YES	NO	bb	bb	0.751
18	OCDD	47.11	9.427e3	1.032e4	1.117	0.91	0.89	99.2	YES	NO	bb	bb	2.396

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.36	1.032e6					7.5	YES		dd		
2	FUNCTION1 PFK	21.27	4.024e5					7.9	YES		dd		
3	FUNCTION1 PFK	21.24	1.253e6					8.4	YES		dd		
4	FUNCTION1 PFK	21.10	8.667e5					10.0	YES		bd		
5	FUNCTION1 PFK	23.84	1.496e5					1.4	NO		bb		
6	FUNCTION1 PFK	23.70	3.994e3					0.2	NO		bb		
7	FUNCTION1 PFK	23.55	1.030e5					1.4	NO		bb		
8	FUNCTION1 PFK	23.45	9.755e4					1.4	NO		bb		
9	FUNCTION1 PFK	23.31	5.397e4					1.4	NO		bb		
10	FUNCTION1 PFK	23.19	4.874e4					1.0	NO		bb		
11	FUNCTION1 PFK	23.05	2.246e5					1.6	NO		bb		
12	FUNCTION1 PFK	22.88	1.936e4					0.5	NO		db		
13	FUNCTION1 PFK	22.82	7.746e4					1.1	NO		dd		
14	FUNCTION1 PFK	22.73	9.655e4					1.1	NO		bd		
15	FUNCTION1 PFK	22.37	3.797e5					4.0	YES		db		
16	FUNCTION1 PFK	22.09	8.559e5					2.7	NO		dd		
17	FUNCTION1 PFK	22.00	1.548e5					2.4	NO		dd		
18	FUNCTION1 PFK	21.94	5.240e4					1.3	NO		dd		
19	FUNCTION1 PFK	21.88	1.278e5					1.6	NO		bd		
20	FUNCTION1 PFK	21.61	7.037e5					3.1	YES		db		
21	FUNCTION1 PFK	27.18	2.862e4					0.6	NO		bb		
22	FUNCTION1 PFK	26.93	1.699e5					1.8	NO		db		
23	FUNCTION1 PFK	26.86	1.616e5					2.0	NO		dd		
24	FUNCTION1 PFK	26.71	4.170e5					3.4	YES		dd		
25	FUNCTION1 PFK	26.56	9.446e5					5.4	YES		bd		
26	FUNCTION1 PFK	26.33	9.651e5					5.6	YES		db		
27	FUNCTION1 PFK	26.17	6.800e5					4.2	YES		dd		
28	FUNCTION1 PFK	26.02	7.733e4					1.8	NO		dd		
29	FUNCTION1 PFK	25.96	5.753e4					1.2	NO		bd		
30	FUNCTION1 PFK	25.76	1.273e5					1.3	NO		bb		
31	FUNCTION1 PFK	25.47	7.697e3					0.4	NO		db		
32	FUNCTION1 PFK	25.41	6.126e4					0.9	NO		bd		
33	FUNCTION1 PFK	25.11	6.904e4					0.8	NO		bb		
34	FUNCTION1 PFK	24.30	9.126e4					1.2	NO		db		
35	FUNCTION1 PFK	24.20	1.708e5					2.1	NO		dd		
36	FUNCTION1 PFK	24.03	5.176e5					2.7	NO		bd		
37	FUNCTION1 PFK	28.13	1.379e5					1.7	NO		bb		
38	FUNCTION1 PFK	28.01	1.246e5					1.6	NO		db		
39	FUNCTION1 PFK	27.86	2.663e5					1.5	NO		bd		
40	FUNCTION1 PFK	27.62	2.349e4					0.6	NO		bb		
41	FUNCTION1 PFK	27.35	1.298e5					1.2	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.00	1.010e5					5.5	YES		bb		0.000
2	FUNCTION2 PFK	31.74	1.381e4					1.7	NO		bb		0.000
3	FUNCTION2 PFK	31.41	4.063e4					2.8	NO		bb		0.000
4	FUNCTION2 PFK	31.26	1.661e5					6.2	YES		bb		0.000
5	FUNCTION2 PFK	30.72	2.131e5					5.1	YES		bb		0.000
6	FUNCTION2 PFK	30.44	1.122e5					5.4	YES		db		0.000
7	FUNCTION2 PFK	30.40	1.520e5					6.3	YES		bd		0.000
8	FUNCTION2 PFK	28.51	7.925e3					1.4	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.14	9.070e5					12.5	YES		bd		0.000
2	FUNCTION3 PFK	38.39	7.887e4					2.4	NO		bb		0.000
3	FUNCTION3 PFK	37.51	6.950e4					2.3	NO		bb		0.000
4	FUNCTION3 PFK	37.30	1.359e5					3.3	YES		bb		0.000
5	FUNCTION3 PFK	36.63	2.962e5					5.4	YES		bb		0.000
6	FUNCTION3 PFK	35.87	3.939e5					6.3	YES		bb		0.000
7	FUNCTION3 PFK	35.60	1.177e6					8.9	YES		bb		0.000
8	FUNCTION3 PFK	34.99	1.291e6					8.6	YES		db		0.000
9	FUNCTION3 PFK	34.67	1.869e6					12.9	YES		bd		0.000
10	FUNCTION3 PFK	34.45	3.756e5					6.6	YES		bb		0.000
11	FUNCTION3 PFK	33.62	8.730e5					6.3	YES		db		0.000
12	FUNCTION3 PFK	33.32	1.728e6					14.3	YES		dd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	43.70	3.062e4					1.9	NO		bb		
2	FUNCTION4 PFK	41.74	1.646e4					1.6	NO		bb		
3	FUNCTION4 PFK	41.17	5.986e4					2.7	NO		bb		
4	FUNCTION4 PFK	38.62	2.660e4					1.7	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	47.42	1.181e3					0.4	NO		bb		
2	FUNCTION5 PFK	47.04	1.258e4					2.2	NO		bb		
3	FUNCTION5 PFK	46.90	7.519e3					1.1	NO		bb		
4	FUNCTION5 PFK	46.51	1.967e4					1.1	NO		bb		
5	FUNCTION5 PFK	46.34	2.335e4					1.2	NO		bb		
6	FUNCTION5 PFK	46.23	6.025e3					1.4	NO		bb		
7	FUNCTION5 PFK	46.00	2.549e4					1.4	NO		db		
8	FUNCTION5 PFK	45.90	2.682e4					1.7	NO		bd		
9	FUNCTION5 PFK	45.79	4.474e3					1.1	NO		bb		
10	FUNCTION5 PFK	45.75	1.560e4					1.5	NO		bb		
11	FUNCTION5 PFK	45.55	4.896e3					0.9	NO		bb		
12	FUNCTION5 PFK	44.87	4.290e3					0.9	NO		bb		
13	FUNCTION5 PFK	44.73	5.357e3					1.0	NO		bb		
14	FUNCTION5 PFK	44.65	7.546e3					1.5	NO		bb		
15	FUNCTION5 PFK	44.60	9.187e3					1.3	NO		bb		
16	FUNCTION5 PFK	49.34	4.147e3					0.8	NO		bb		
17	FUNCTION5 PFK	49.30	1.254e3					0.5	NO		bb		
18	FUNCTION5 PFK	49.12	8.320e3					1.4	NO		bb		
19	FUNCTION5 PFK	48.94	1.186e4					1.6	NO		db		
20	FUNCTION5 PFK	48.90	5.981e3					1.1	NO		bd		
21	FUNCTION5 PFK	48.63	1.657e4					1.8	NO		db		
22	FUNCTION5 PFK	48.56	7.781e3					1.2	NO		bd		
23	FUNCTION5 PFK	48.39	3.663e3					0.8	NO		bb		
24	FUNCTION5 PFK	48.28	1.739e4					1.8	NO		db		
25	FUNCTION5 PFK	48.26	1.432e4					1.8	NO		bd		
26	FUNCTION5 PFK	48.04	6.536e3					1.1	NO		bb		
27	FUNCTION5 PFK	47.78	1.666e3					0.6	NO		bb		
28	FUNCTION5 PFK	47.60	8.332e3					1.5	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.79	5.149e2					9.1	YES		bb		0.000
2	FUNCTION1 HXCD...	23.85	2.118e2					4.1	YES		bb		0.000
3	FUNCTION1 HXCD...	26.05	1.339e3					18.6	YES		db		0.000
4	FUNCTION1 HXCD...	25.91	1.023e2					2.5	NO		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.06	9.478e1					1.8	NO		bb		0.000
2	FUNCTION1 HPCD...	26.00	9.060e1					1.5	NO		bb		0.000
3	FUNCTION1 HPCD...	24.66	1.072e2					2.2	NO		bb		0.000
4	FUNCTION1 HPCD...	23.82	2.719e2					2.9	NO		bb		0.000
5	FUNCTION1 HPCD...	23.61	9.216e1					3.0	YES		bb		0.000
6	FUNCTION1 HPCD...	23.28	7.525e1					1.4	NO		bb		0.000
7	FUNCTION1 HPCD...	22.96	1.762e2					2.7	NO		bb		0.000
8	FUNCTION1 HPCD...	22.45	7.971e1					1.6	NO		bb		0.000
9	FUNCTION1 HPCD...	22.30	2.633e2					2.9	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.86	8.428e1					3.7	YES		bd		0.000
2	FUNCTION2 HPCD...	30.11	7.349e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	29.47	1.902e2					2.8	NO		bb		0.000
4	FUNCTION2 HPCD...	32.59	8.293e1					2.0	NO		bb		0.000
5	FUNCTION2 HPCD...	32.46	9.401e1					1.2	NO		db		0.000
6	FUNCTION2 HPCD...	32.37	8.892e1					1.5	NO		bd		0.000
7	FUNCTION2 HPCD...	31.75	7.593e1					1.9	NO		bb		0.000
8	FUNCTION2 HPCD...	31.24	1.105e2					2.0	NO		bb		0.000
9	FUNCTION2 HPCD...	30.91	1.324e2					3.8	YES		db		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.39	8.041e1					2.5	NO		bb		0.000
2	FUNCTION3 OCDPE	35.22	9.285e1					1.9	NO		bb		0.000
3	FUNCTION3 OCDPE	33.66	1.408e2					2.6	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.91	8.957e1					1.6	NO		bb		0.000
2	FUNCTION4 NCDPE	41.42	8.073e1					2.0	NO		bb		0.000
3	FUNCTION4 NCDPE	39.03	1.507e2					4.5	YES		bb		0.000

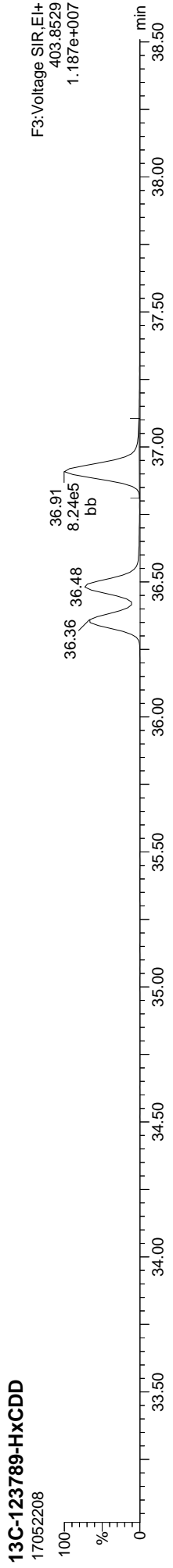
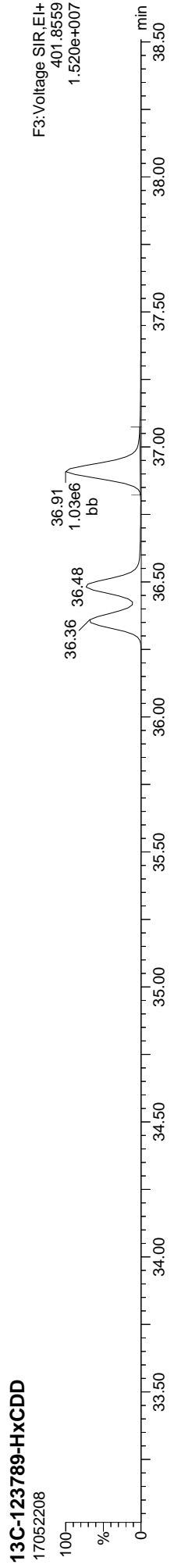
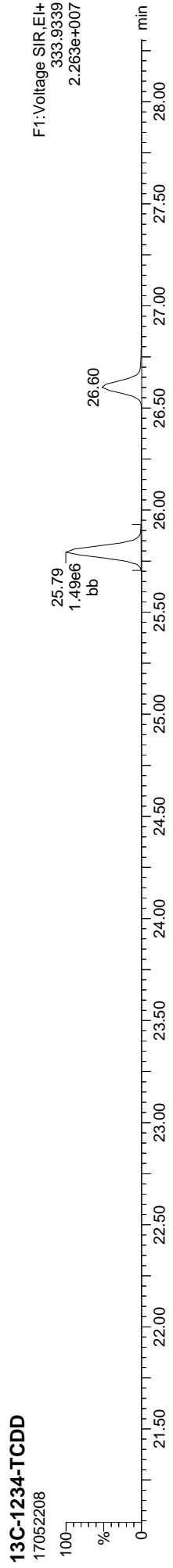
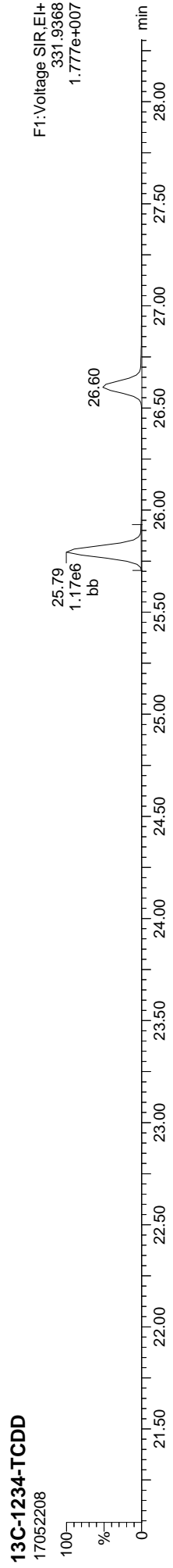
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	47.29	1.050e2					2.1	NO		bb		0.000
2	FUNCTION5 DCDPE	48.60	8.426e1					2.1	NO		bb		0.000

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

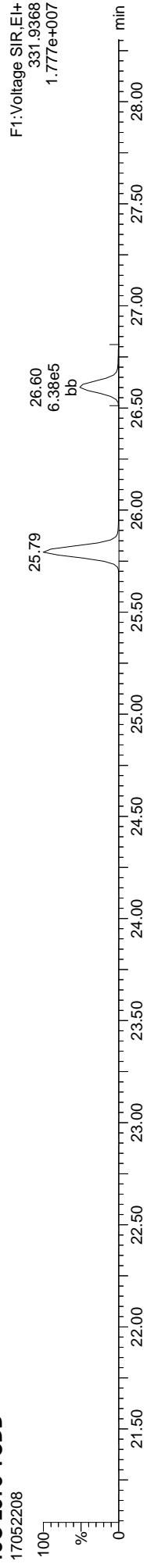
ID: 17D0421-03, **Name:** 17052208, **Date:** 22-May-2017, **Time:** 15:37:05, **Conditions:** AUTOSPEC01, **User:** PK



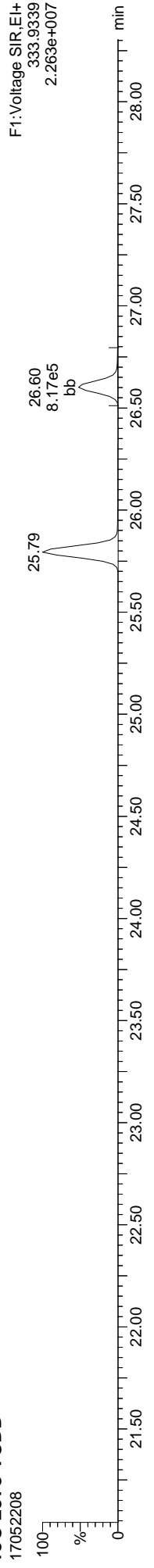
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

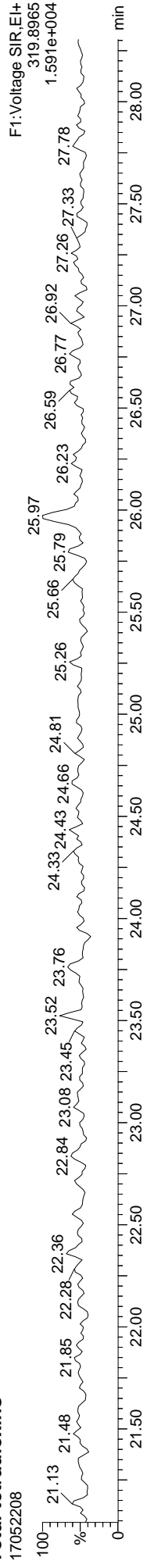
13C-2378-TCDD



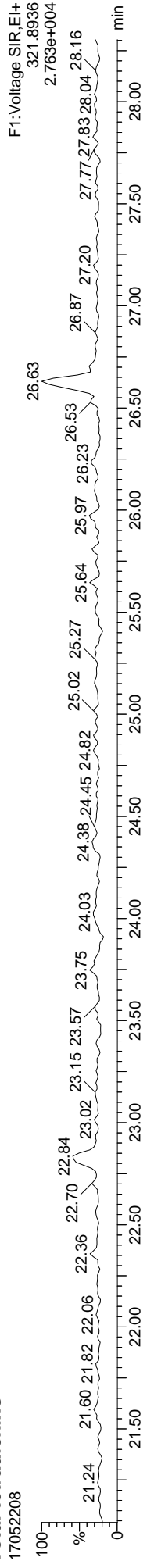
13C-2378-TCDD



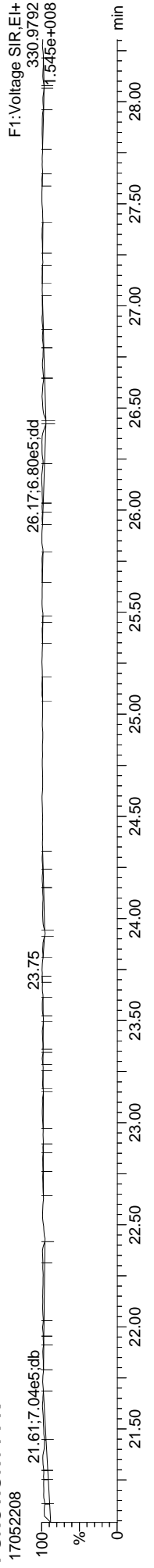
Total-tetradioxins



Total-tetradioxins



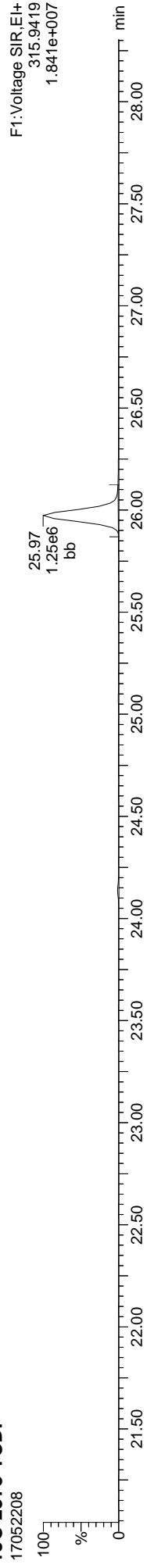
FUNCTION1 PFK



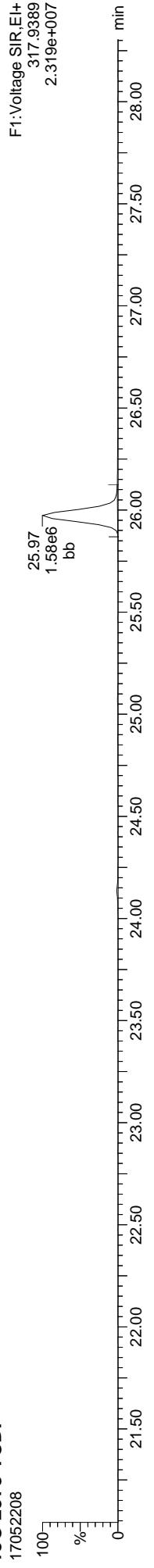
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

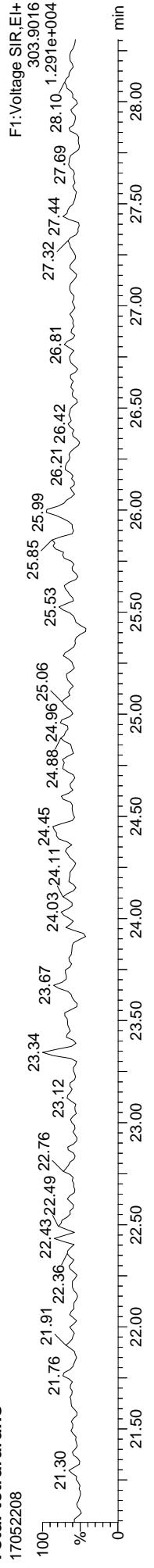
13C-2378-TCDF



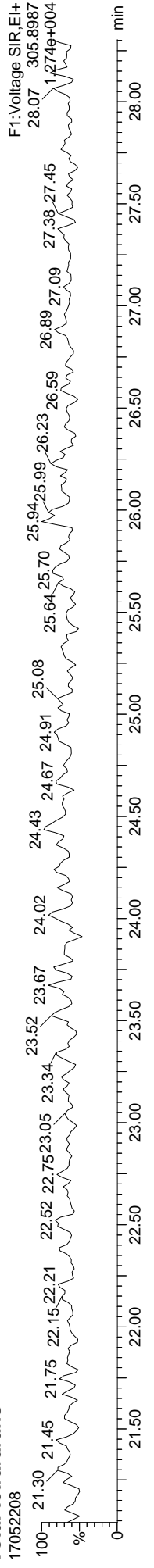
13C-2378-TCDF



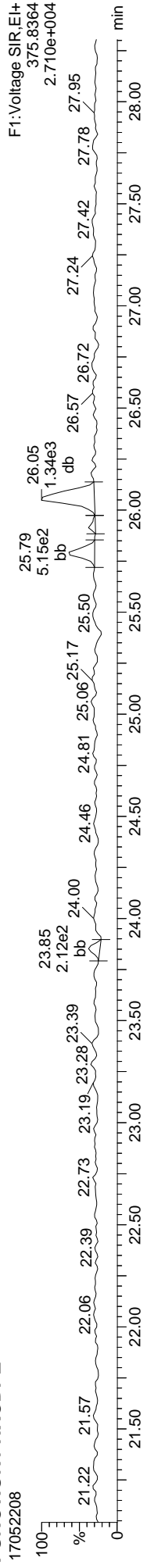
Total-tetrafurans



Total-tetrafurans



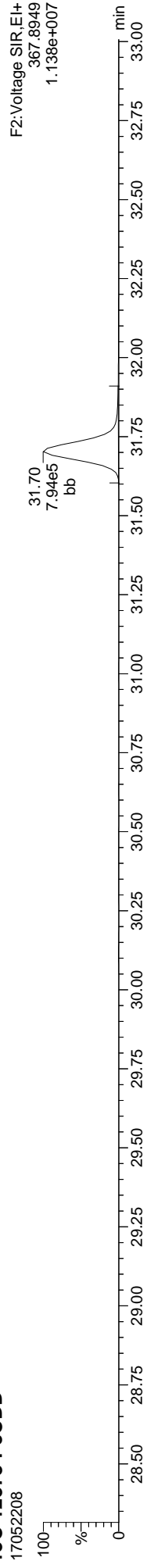
FUNCTION1 HXCDFE



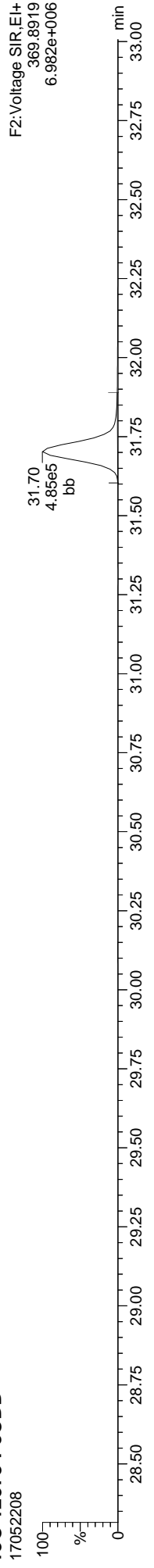
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

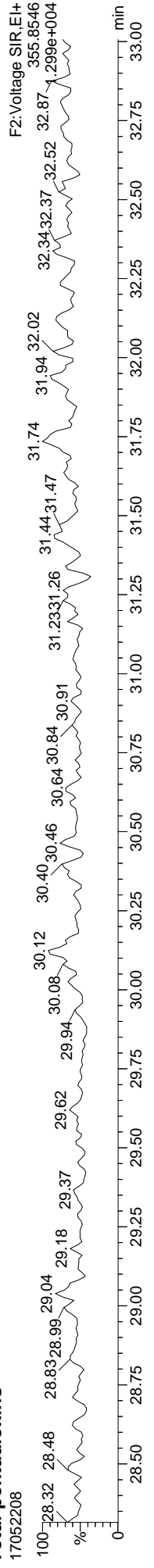
13C-12378-PeCDD



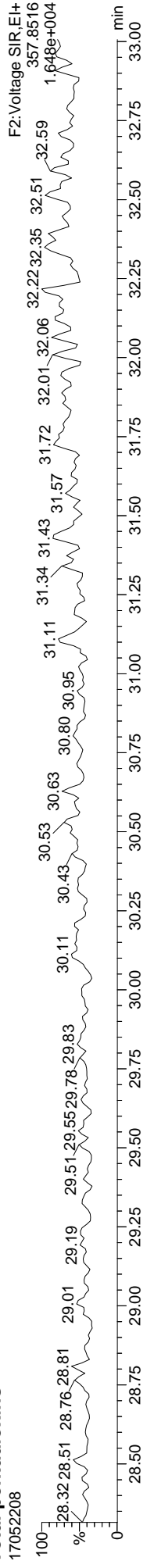
13C-12378-PeCDD



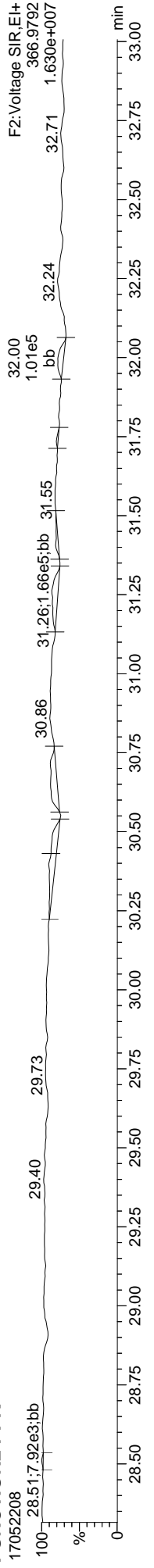
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

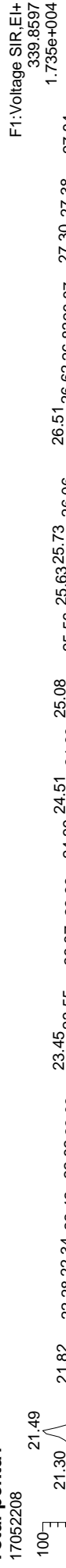
13C-12378-PeCDF



13C-12378-PeCDF



Total-penta1



Total-penta1



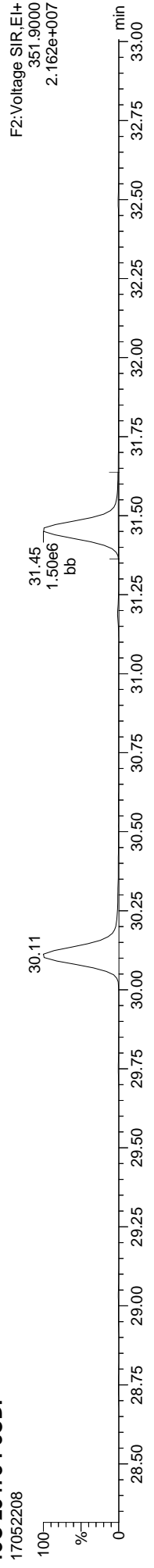
FUNCTION1 HPCDPE



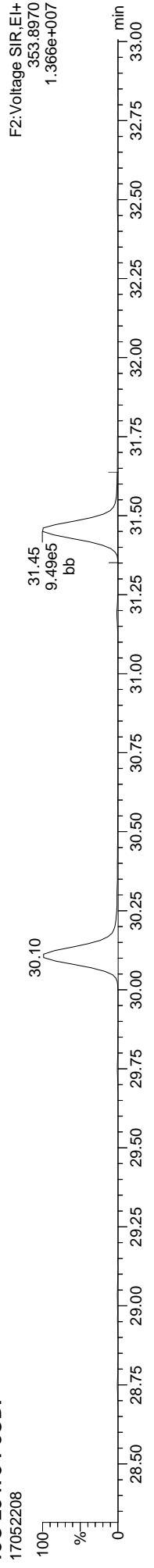
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

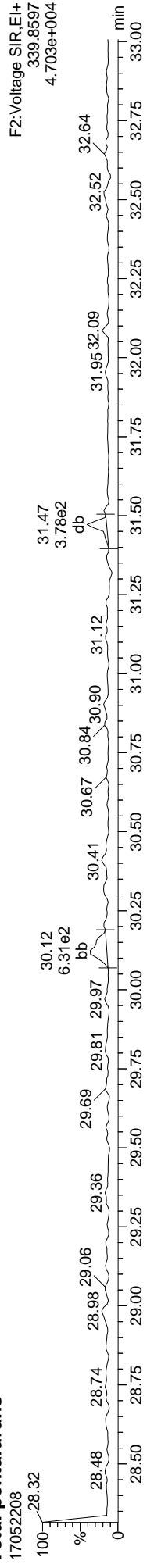
13C-23478-PeCDF



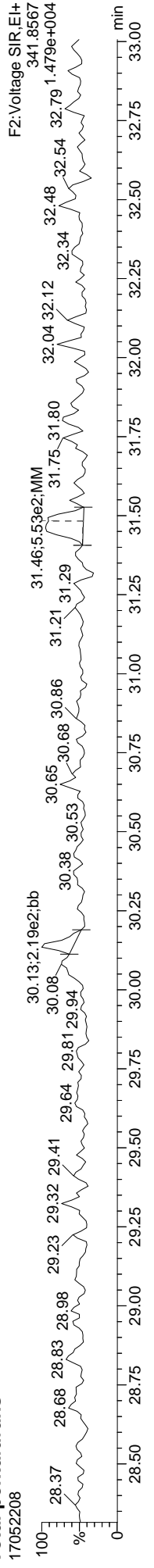
13C-23478-PeCDF



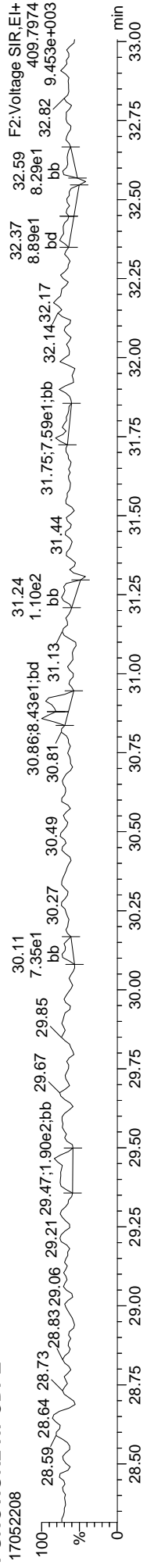
Total-pentafurans



Total-pentafurans



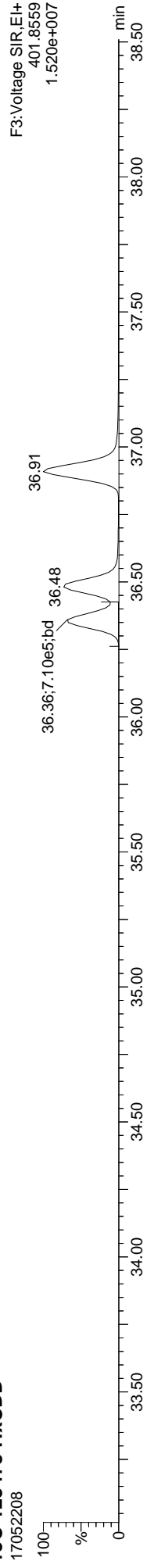
FUNCTION2 HPCDPE



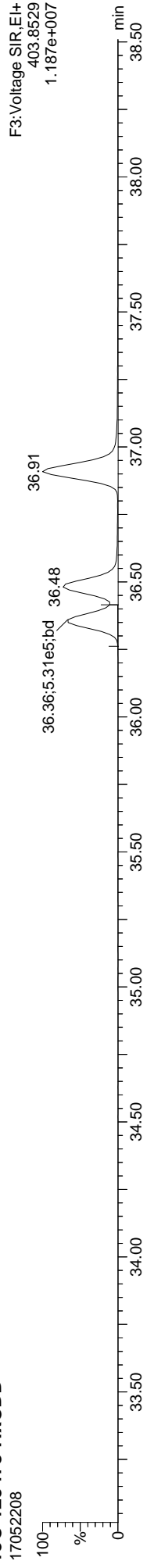
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

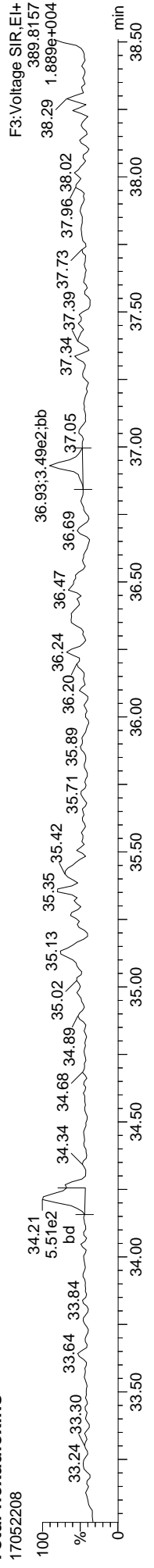
13C-123478-HxCDD



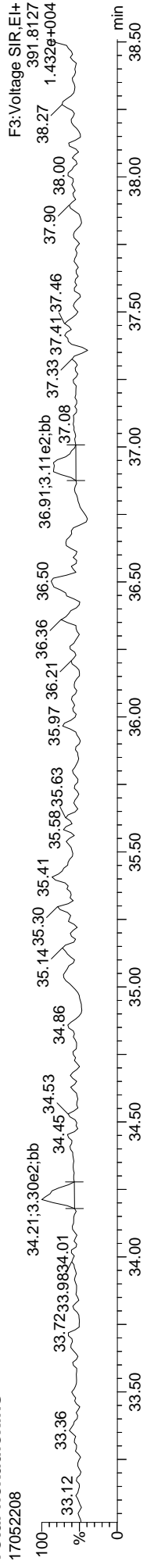
13C-123478-HxCDD



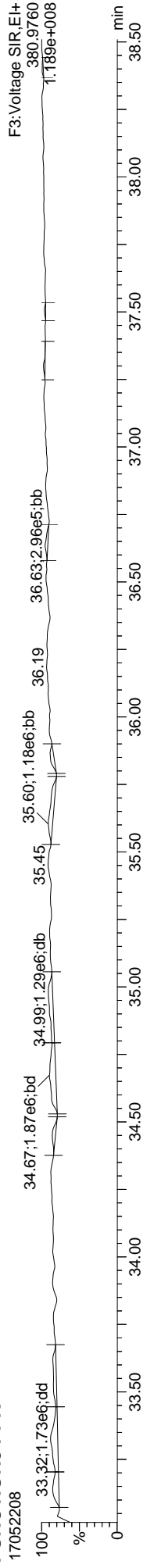
Total-hexadioxins



Total-hexadioxins



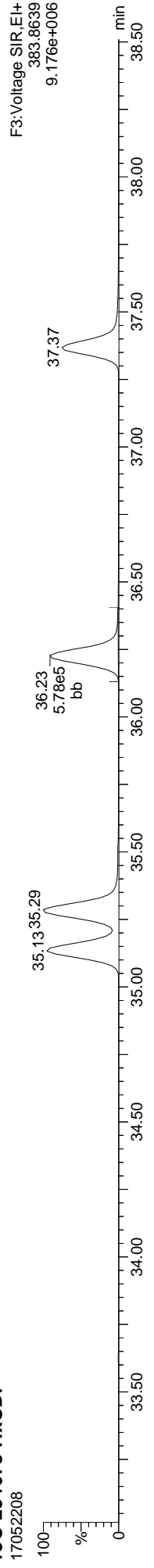
FUNCTION3 PFK



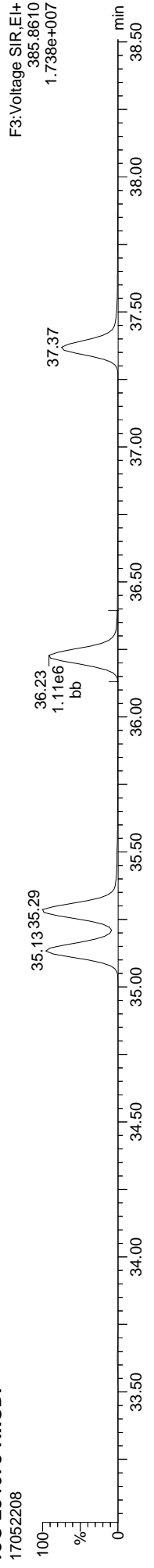
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

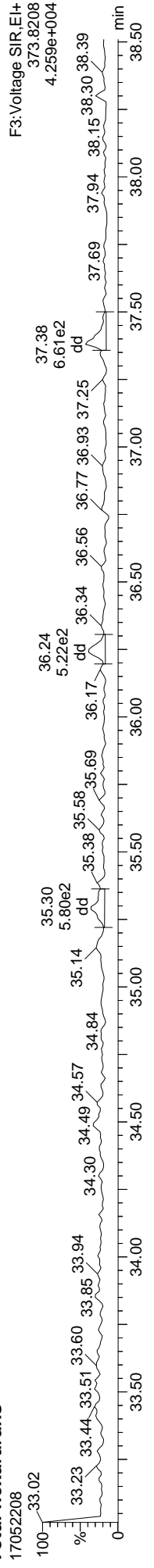
13C-234678-HxCDF



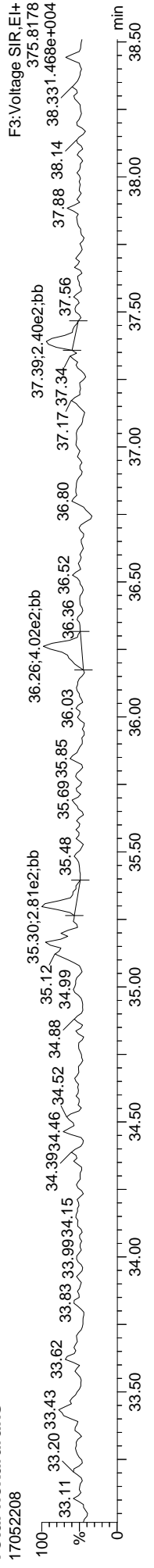
13C-234678-HxCDF



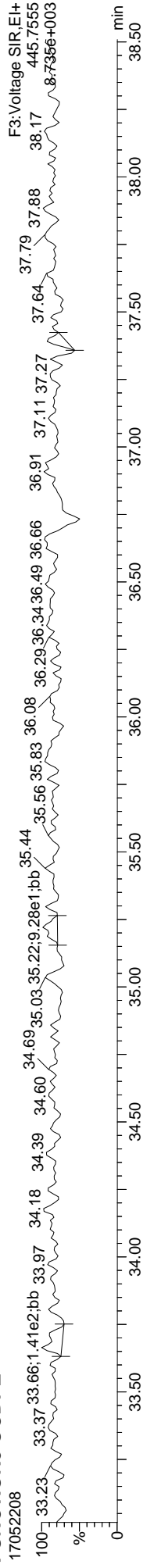
Total-hexafurans



Total-hexafurans



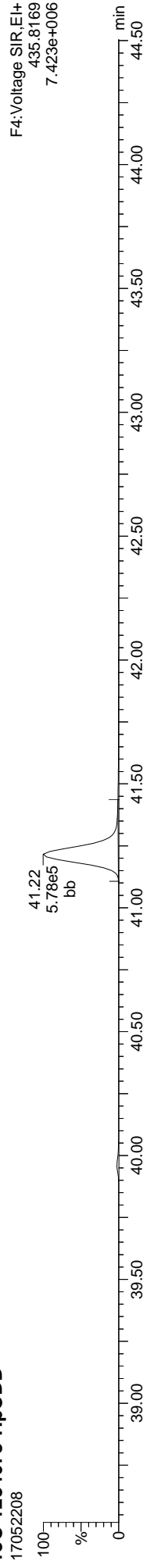
FUNCTION3 OCDPE



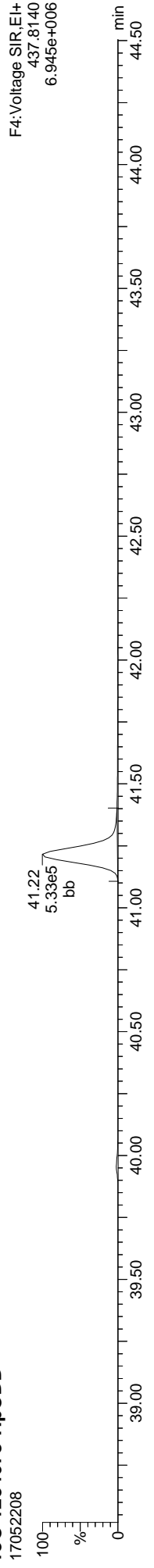
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

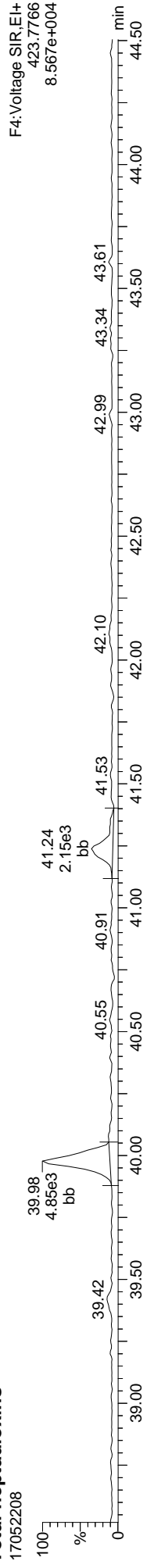
13C-1234678-HpCDD



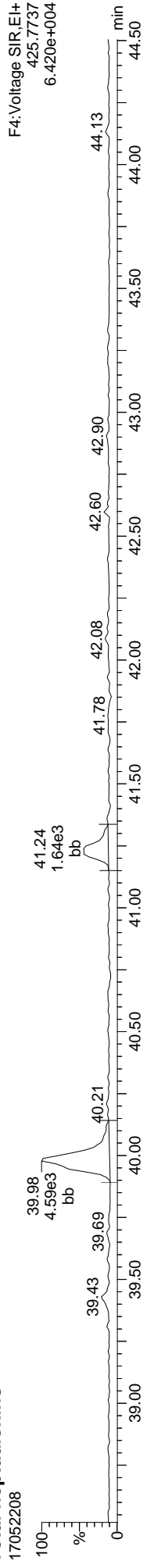
13C-1234678-HpCDD



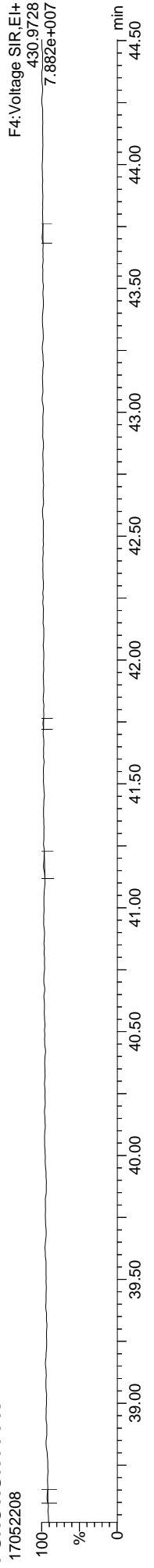
Total-heptadioxins



Total-heptadioxins



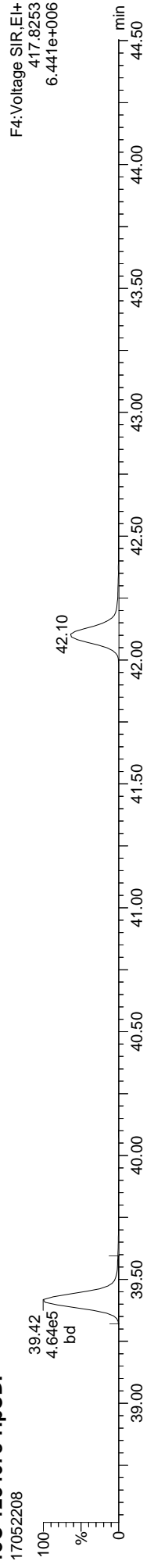
FUNCTION4 PFK



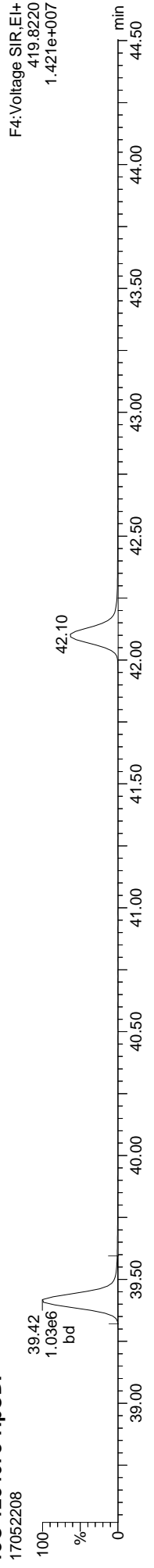
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

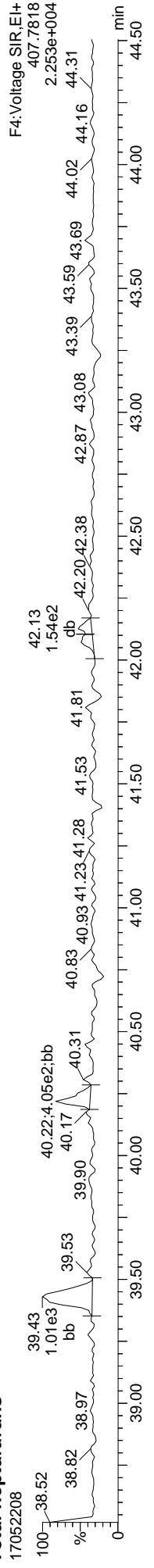
13C-1234678-HpCDF



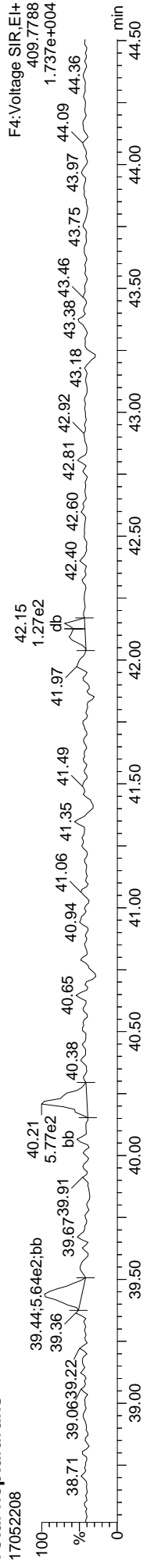
13C-1234678-HpCDF



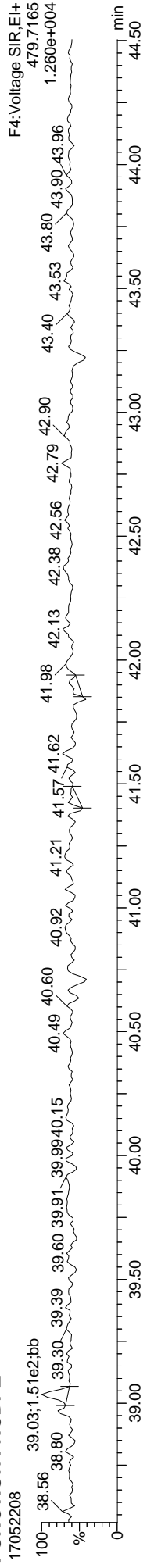
Total-heptafurans



Total-heptafurans



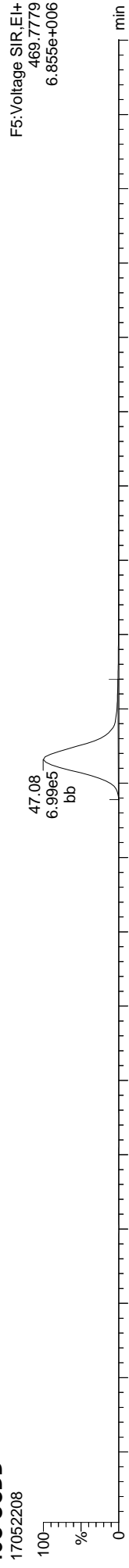
FUNCTION4 NCDPE



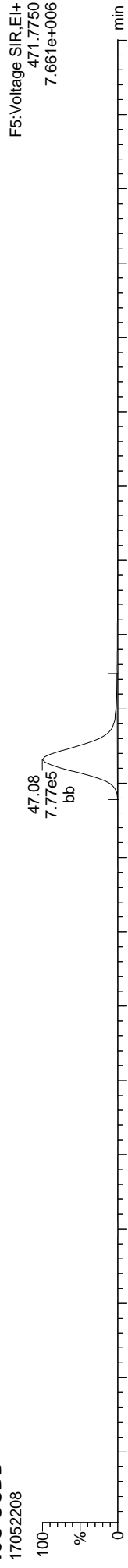
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:08 Pacific Daylight Time

ID: 17D0421-03, Name: 17052208, Date: 22-May-2017, Time: 15:37:05, Conditions: AUTOSPEC01, User: PK

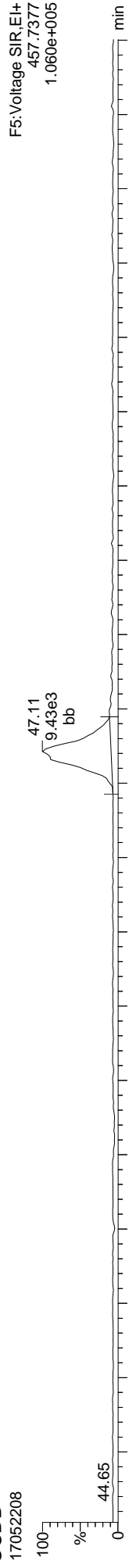
13C-OCDD



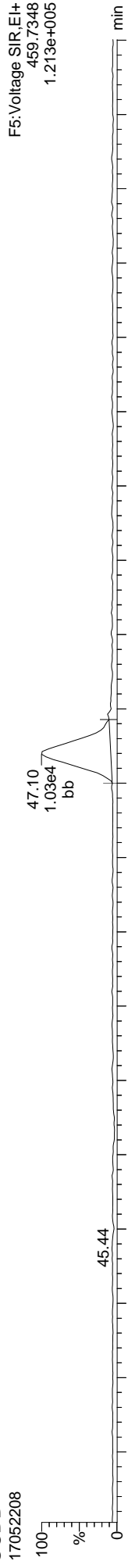
13C-OCDD



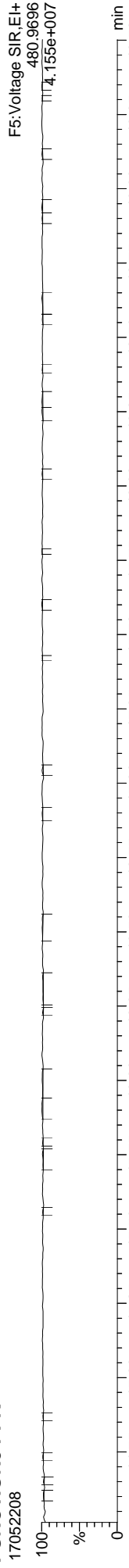
OCDD



OCDD



FUNCTION5 PFK





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-04 File ID: 17052209
 Sampled: 04/24/17 11:30 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 16:30
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.02 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.600	0.655-0.886		0.998	0.351	ng/kg	EMPC, J, B
1746-01-6	2,3,7,8-TCDD	1	0.377	0.655-0.886		0.998	0.234	ng/kg	EMPC, J, B
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.071	4.99	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	2.158	1.318-1.783		4.99	0.095	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.082	4.99	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.061	4.99	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.063	4.99	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.061	4.99	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.088	4.99	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.119	4.99	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.106	4.99	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.123	4.99	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.000	0.893-1.208	0.075	4.99	ND	ng/kg	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.113	4.99	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.963	0.893-1.208		4.99	0.252	ng/kg	J, B
39001-02-0	OCDF	1	0.000	0.757-1.024	0.136	9.98	ND	ng/kg	U
3268-87-9	OCDD	1	1.091	0.757-1.024		9.98	1.48	ng/kg	EMPC, J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	3.45	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	2.73	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	1.47	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	0.950	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	0.137	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	0.269	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	ND	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	1.11	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.301
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.301



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-04</u>
Sampled:	<u>04/24/17 11:30</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052209</u>
		Analyzed:	<u>05/22/17 16:30</u>
		Initial/Final:	<u>10.02 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.796	0.655-0.886		71.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.784	0.655-0.886		71.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.612	1.318-1.783		60.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.600	1.318-1.783		63.7	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.654	1.318-1.783		66.0	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.525	0.434-0.587		69.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.535	0.434-0.587		67.0	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.528	0.434-0.587		73.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.535	0.434-0.587		66.2	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.307	1.054-1.426		66.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.272	1.054-1.426		72.9	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.449	0.374-0.506		58.8	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.455	0.374-0.506		63.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.068	0.893-1.208		70.4	23 - 140 %	
13C12-OCDD		0.899	0.757-1.024		63.5	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			98.8	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-04, **Name:** 17052209, **Date:** 22-May-2017, **Time:** 16:30:22, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.004	1.001	2.188e3	3.647e3	1.018	0.600	0.770	1957	2290	3.04e4	4.69e4	15.5	YES	YES	bd	bd	0.176
12378-PeCDF					0.977		1.550	2321	2344								
23478-PeCDF	31.483	1.001	9.330e2	4.323e2	1.019	2.158	1.550	2321	2344	1.50e4	9.01e3	6.5	YES	YES	bb	bb	0.048
123478-HxCDF					1.150		1.240	1651	1288								
234678-HxCDF					1.188		1.240	1651	1288								
123678-HxCDF					1.100		1.240	1651	1288								
123789-HxCDF					1.116		1.240	1651	1288								
1234678-HpCDF					1.238		1.050	1378	1254								
1234789-HpCDF					1.257		1.050	1378	1254								
OCDF					1.321		0.890	903	1123								
2378-TCDD	26.646	1.001	6.696e2	1.777e3	1.244	0.377	0.770	1070	1079	7.04e3	2.44e4	6.6	YES	YES	bb	bd	0.117
12378-PeCDD					1.058		1.550	1679	1608								
123478-HxCDD					1.119		1.240	1706	1784								
123678-HxCDD					1.040		1.240	1706	1784								
123789-HxCDD					0.981		1.240	1706	1784								
1234678-HpCDD	41.359	1.001	6.923e2	7.189e2	1.132	0.963	1.050	1095	1103	9.93e3	1.06e4	9.1	YES	NO	MM	MM	0.126
OCDD	47.241	1.001	3.076e3	2.820e3	1.117	1.091	0.890	882	702	3.17e4	2.83e4	36.0	YES	YES	bb	MM	0.741
13C-2378-TCDF	25.989	1.007	1.445e6	1.815e6	1.685	0.796	0.770	8045	3715	2.05e7	2.57e7	2553.0	YES	NO	bb	bb	71.715
13C-12378-PeCDF	30.113	1.167	1.719e6	1.067e6	1.706	1.612	1.550	4371	3843	2.49e7	1.56e7	5697.1	YES	NO	bb	bb	60.527
13C-23478-PeCDF	31.462	1.219	1.725e6	1.078e6	1.632	1.600	1.550	4371	3843	2.55e7	1.60e7	5827.5	YES	NO	bb	bb	63.665
13C-123478-HxCDF	35.144	0.951	6.132e5	1.169e6	1.682	0.525	0.510	3191	6518	8.64e6	1.66e7	2708.4	YES	NO	bd	bd	69.712
13C-123678-HxCDF	35.287	0.955	6.907e5	1.291e6	1.945	0.535	0.510	3191	6518	8.91e6	1.69e7	2791.5	YES	NO	bd	dd	67.028
13C-234678-HxCDF	36.251	0.981	6.115e5	1.158e6	1.582	0.528	0.510	3191	6518	8.35e6	1.58e7	2615.7	YES	NO	bb	bb	73.613
13C-123789-HxCDF	37.402	1.013	4.529e5	8.461e5	1.291	0.535	0.510	3191	6518	6.23e6	1.17e7	1952.1	YES	NO	bd	bb	66.235
13C-1234678-HpCDF	39.485	1.069	3.949e5	8.789e5	1.427	0.449	0.440	2170	3113	5.25e6	1.16e7	2418.0	YES	NO	bb	bb	58.763
13C-1234789-HpCDF	42.214	1.143	2.904e5	6.385e5	0.957	0.455	0.440	2170	3113	3.46e6	7.57e6	1593.2	YES	NO	bd	bd	63.886
13C-1234-TCDD	25.809	0.000	1.187e6	1.511e6	1.000	0.786	0.770	3489	2295	1.77e7	2.25e7	5086.4	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.616	1.031	7.357e5	9.380e5	0.873	0.784	0.770	3489	2295	1.08e7	1.37e7	3099.0	YES	NO	bb	bb	71.068
13C-12378-PeCDD	31.713	1.229	9.551e5	5.775e5	0.860	1.654	1.550	1631	1879	1.41e7	8.56e6	8653.9	YES	NO	bb	bb	66.037
13C-123478-HxCDD	36.383	0.985	6.384e5	4.885e5	1.114	1.307	1.240	2265	1649	8.86e6	6.66e6	3913.0	YES	NO	bd	bd	66.599
13C-123678-HxCDD	36.514	0.988	7.805e5	6.137e5	1.258	1.272	1.240	2265	1649	1.06e7	8.33e6	4664.4	YES	NO	db	db	72.909
13C-1234678-HpCDD	41.326	1.119	5.105e5	4.781e5	0.924	1.068	1.050	1848	1501	6.36e6	5.87e6	3440.0	YES	NO	bd	bd	70.444
13C-OCDD	47.215	1.278	6.741e5	7.499e5	0.738	0.899	0.890	1338	1598	6.38e6	7.07e6	4770.3	YES	NO	bd	bd	126.928
13C-123789-HxCDD	36.942	0.000	8.576e5	6.619e5	1.000	1.296	1.240	2265	1649	1.15e7	8.99e6	5058.3	YES	NO	bb	bb	100.000
Total-tetrafurans			2.522e4		1.018			1957		3.24e5							1.728

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1			2.160e3					1032		2.03e4							0.115
Total-pentafurans			8.876e3		0.998			2321		1.30e5							0.619
Total-hexafurans			9.672e2		1.138			1651		1.62e4							0.068
Total-heptafurans			0.000e0		1.248			1378		0.00e0							
Total-Furans			3.776e4		1.138			1957		4.96e5							2.550
Total-tetradioxins			1.200e4		1.244			1070		1.74e5							1.369
Total-pentadioxins			4.923e3		1.058			1679		6.55e4							0.476
Total-hexadioxins			9.592e2		1.047			1706		1.66e4							0.135
Total-heptadioxins			3.161e3		1.132			1095		4.82e4							0.558
Total-Dioxins			2.412e4		1.099			1070		3.36e5							3.279
Total-TEQ			6.187e4					1070		8.33e5							5.829
37CL-2378-TCDD	26.631	1.032	1.090e6		1.021			1885		1.60e7		8469.4	YES		bb		39.538
FUNCTION1 PFK			2.573e7					850950		2.22e8							0.000
FUNCTION2 PFK			1.030e6					191109		8.16e6							0.000
FUNCTION3 PFK			2.783e6					659761		2.60e7							0.000
FUNCTION4 PFK			0.000e0					428873		0.00e0							
FUNCTION5 PFK			1.999e7					292564		8.30e7							
FUNCTION1 HXCD...			6.779e4					978		9.10e5							0.000
FUNCTION1 HPCD...			3.829e3					840		5.87e4							0.000
FUNCTION2 HPCD...			6.681e2					962		1.12e4							0.000
FUNCTION3 OCDPE			3.609e2					968		6.07e3							0.000
FUNCTION4 NCDPE			2.898e3					828		3.96e4							0.000
FUNCTION5 DCDPE			0.000e0					624		0.00e0							0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.67	1.525e3	1.768e3	1.018	0.86	0.77	8.2	YES	NO	dd	bd	0.099
2	Total-tetrafurans	24.26	1.235e3	1.899e3	1.018	0.65	0.77	9.4	YES	YES	dd	db	0.094
3	Total-tetrafurans	24.14	5.708e2	8.027e2	1.018	0.71	0.77	5.2	YES	NO	dd	dd	0.041
4	Total-tetrafurans	24.02	1.004e3	1.139e3	1.018	0.88	0.77	5.1	YES	NO	dd	bd	0.065
5	Total-tetrafurans	23.87	6.599e2	9.066e2	1.018	0.73	0.77	5.7	YES	NO	dd	db	0.047
6	Total-tetrafurans	23.76	1.412e3	1.684e3	1.018	0.84	0.77	8.6	YES	NO	dd	dd	0.093
7	Total-tetrafurans	23.66	1.655e3	2.016e3	1.018	0.82	0.77	9.8	YES	NO	dd	MM	0.111
8	Total-tetrafurans	23.55	1.726e3	1.399e3	1.018	1.23	0.77	7.1	YES	YES	MM	MM	0.094
9	Total-tetrafurans	23.36	2.694e3	3.817e3	1.018	0.71	0.77	18.7	YES	NO	bd	bd	0.196
10	Total-tetrafurans	22.79	9.092e2	7.844e2	1.018	1.16	0.77	6.0	YES	YES	bb	bb	0.051
11	Total-tetrafurans	22.51	1.064e3	1.995e3	1.018	0.53	0.77	8.5	YES	YES	bb	bb	0.092
12	Total-tetrafurans	26.23	1.902e3	2.675e3	1.018	0.71	0.77	15.5	YES	NO	db	dd	0.138
13	2378-TCDF	26.00	2.188e3	3.647e3	1.018	0.60	0.77	15.5	YES	YES	bd	bd	0.176
14	Total-tetrafurans	25.75	1.562e3	2.033e3	1.018	0.77	0.77	6.7	YES	NO	bb	MM	0.108
15	Total-tetrafurans	25.32	9.336e2	9.065e2	1.018	1.03	0.77	6.4	YES	YES	dd	bb	0.055
16	Total-tetrafurans	25.09	9.161e2	5.977e2	1.018	1.53	0.77	6.0	YES	YES	dd	bb	0.046
17	Total-tetrafurans	24.90	2.606e3	3.501e3	1.018	0.74	0.77	17.1	YES	NO	dd	db	0.184
18	Total-tetrafurans	24.76	6.573e2	5.701e2	1.018	1.15	0.77	5.8	YES	YES	dd	dd	0.037

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.41	2.160e3	7.940e2		2.72	1.55	19.6	YES	YES	bd	bb	0.115

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.48	9.330e2	4.323e2	1.019	2.16	1.55	6.5	YES	YES	bb	bb	0.048
2	Total-pentafurans	28.98	6.418e3	7.136e3	0.998	0.90	1.55	37.0	YES	YES	MM	bb	0.486
3	Total-pentafurans	28.73	1.525e3	8.533e2	0.998	1.79	1.55	12.7	YES	YES	bb	bb	0.085

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.65	6.890e2	1.625e2	1.138	4.24	1.24	6.3	YES	YES	MM	bb	0.044
2	Total-hexafurans	34.52	2.782e2	2.014e2	1.138	1.38	1.24	3.5	YES	NO	db	db	0.025

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.67	1.525e3	1.768e3	1.018	0.86	0.77	8.2	YES	NO	dd	bd	0.099
2	Total-tetrafurans	24.26	1.235e3	1.899e3	1.018	0.65	0.77	9.4	YES	YES	dd	db	0.094
3	Total-tetrafurans	24.14	5.708e2	8.027e2	1.018	0.71	0.77	5.2	YES	NO	dd	dd	0.041
4	Total-tetrafurans	24.02	1.004e3	1.139e3	1.018	0.88	0.77	5.1	YES	NO	dd	bd	0.065
5	Total-tetrafurans	23.87	6.599e2	9.066e2	1.018	0.73	0.77	5.7	YES	NO	dd	db	0.047
6	Total-tetrafurans	23.76	1.412e3	1.684e3	1.018	0.84	0.77	8.6	YES	NO	dd	dd	0.093
7	Total-tetrafurans	23.66	1.655e3	2.016e3	1.018	0.82	0.77	9.8	YES	NO	dd	MM	0.111
8	Total-tetrafurans	23.55	1.726e3	1.399e3	1.018	1.23	0.77	7.1	YES	YES	MM	MM	0.094
9	Total-tetrafurans	23.36	2.694e3	3.817e3	1.018	0.71	0.77	18.7	YES	NO	bd	bd	0.196
10	Total-tetrafurans	22.79	9.092e2	7.844e2	1.018	1.16	0.77	6.0	YES	YES	bb	bb	0.051
11	Total-tetrafurans	22.51	1.064e3	1.995e3	1.018	0.53	0.77	8.5	YES	YES	bb	bb	0.092
12	Total-Furans	28.08	5.322e2	1.781e2	1.138	2.99	0.77	3.1	NO	YES	bb	bb	0.019
13	Total-tetrafurans	26.23	1.902e3	2.675e3	1.018	0.71	0.77	15.5	YES	NO	db	dd	0.138
14	2378-TCDF	26.00	2.188e3	3.647e3	1.018	0.60	0.77	15.5	YES	YES	bd	bd	0.176
15	Total-tetrafurans	25.75	1.562e3	2.033e3	1.018	0.77	0.77	6.7	YES	NO	bb	MM	0.108
16	Total-tetrafurans	25.32	9.336e2	9.065e2	1.018	1.03	0.77	6.4	YES	YES	dd	bb	0.055
17	Total-tetrafurans	25.09	9.161e2	5.977e2	1.018	1.53	0.77	6.0	YES	YES	dd	bb	0.046
18	Total-tetrafurans	24.90	2.606e3	3.501e3	1.018	0.74	0.77	17.1	YES	NO	dd	db	0.184
19	Total-tetrafurans	24.76	6.573e2	5.701e2	1.018	1.15	0.77	5.8	YES	YES	dd	dd	0.037
20	23478-PeCDF	31.48	9.330e2	4.323e2	1.019	2.16	1.55	6.5	YES	YES	bb	bb	0.048
21	Total-pentafurans	28.98	6.418e3	7.136e3	0.998	0.90	1.55	37.0	YES	YES	MM	bb	0.486
22	Total-pentafurans	28.73	1.525e3	8.533e2	0.998	1.79	1.55	12.7	YES	YES	bb	bb	0.085
23	Total-hexafurans	33.65	6.890e2	1.625e2	1.138	4.24	1.24	6.3	YES	YES	MM	bb	0.044
24	Total-hexafurans	34.52	2.782e2	2.014e2	1.138	1.38	1.24	3.5	YES	NO	db	db	0.025
25	Total-penta1	27.41	2.160e3	7.940e2		2.72	1.55	19.6	YES	YES	bd	bb	0.115

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	26.27	1.443e3	1.890e3	1.244	0.76	0.77	18.4	YES	NO	bb	bb	0.160
2	Total-tetradiioxins	25.84	3.677e2	3.234e2	1.244	1.14	0.77	5.4	YES	YES	bb	bb	0.033
3	Total-tetradiioxins	25.26	1.052e3	9.903e2	1.244	1.06	0.77	15.1	YES	YES	db	bd	0.098
4	Total-tetradiioxins	24.99	7.336e2	1.039e3	1.244	0.71	0.77	10.0	YES	NO	bd	bb	0.085
5	Total-tetradiioxins	24.27	5.448e2	9.172e2	1.244	0.59	0.77	4.9	YES	YES	db	db	0.070
6	Total-tetradiioxins	24.06	1.696e3	1.910e3	1.244	0.89	0.77	23.8	YES	YES	bd	dd	0.173
7	Total-tetradiioxins	23.78	5.493e3	7.667e3	1.244	0.72	0.77	78.8	YES	NO	bb	bd	0.632
8	2378-TCDD	26.65	6.696e2	1.777e3	1.244	0.38	0.77	6.6	YES	YES	bb	bd	0.117

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadiioxins	30.49	4.681e2	3.425e2	1.058	1.37	1.55	4.9	YES	NO	db	db	0.050
2	Total-pentadiioxins	30.37	9.999e2	4.430e2	1.058	2.26	1.55	8.9	YES	YES	bd	bd	0.089
3	Total-pentadiioxins	30.15	1.622e3	8.774e2	1.058	1.85	1.55	13.6	YES	YES	bb	bb	0.154
4	Total-pentadiioxins	29.03	1.834e3	1.129e3	1.058	1.62	1.55	11.6	YES	NO	bb	MM	0.183

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadiioxins	34.22	9.592e2	8.192e2	1.047	1.17	1.24	9.8	YES	NO	bb	bb	0.135

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.36	6.923e2	7.189e2	1.132	0.96	1.05	9.1	YES	NO	MM	dd	0.126
2	Total-heptadioxins	41.28	1.592e2	1.560e2	1.132	1.02	1.05	4.0	YES	NO	bd	bd	0.028
3	Total-heptadioxins	40.08	2.310e3	2.210e3	1.132	1.04	1.05	30.9	YES	NO	bb	bb	0.404

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.27	1.443e3	1.890e3	1.244	0.76	0.77	18.4	YES	NO	bb	bb	0.160
2	Total-tetradoxins	25.84	3.677e2	3.234e2	1.244	1.14	0.77	5.4	YES	YES	bb	bb	0.033
3	Total-tetradoxins	25.26	1.052e3	9.903e2	1.244	1.06	0.77	15.1	YES	YES	db	bd	0.098
4	Total-tetradoxins	24.99	7.336e2	1.039e3	1.244	0.71	0.77	10.0	YES	NO	bd	bb	0.085
5	Total-tetradoxins	24.27	5.448e2	9.172e2	1.244	0.59	0.77	4.9	YES	YES	db	db	0.070
6	Total-tetradoxins	24.06	1.696e3	1.910e3	1.244	0.89	0.77	23.8	YES	YES	bd	dd	0.173
7	Total-tetradoxins	23.78	5.493e3	7.667e3	1.244	0.72	0.77	78.8	YES	NO	bb	bd	0.632
8	2378-TCDD	26.65	6.696e2	1.777e3	1.244	0.38	0.77	6.6	YES	YES	bb	bd	0.117
9	Total-pentadoxins	30.49	4.681e2	3.425e2	1.058	1.37	1.55	4.9	YES	NO	db	db	0.050
10	Total-pentadoxins	30.37	9.999e2	4.430e2	1.058	2.26	1.55	8.9	YES	YES	bd	bd	0.089
11	Total-pentadoxins	30.15	1.622e3	8.774e2	1.058	1.85	1.55	13.6	YES	YES	bb	bb	0.154
12	Total-pentadoxins	29.03	1.834e3	1.129e3	1.058	1.62	1.55	11.6	YES	NO	bb	MM	0.183
13	Total-hexadoxins	34.22	9.592e2	8.192e2	1.047	1.17	1.24	9.8	YES	NO	bb	bb	0.135
14	OCDD	47.24	3.076e3	2.820e3	1.117	1.09	0.89	36.0	YES	YES	bb	MM	0.741
15	1234678-HpCDD	41.36	6.923e2	7.189e2	1.132	0.96	1.05	9.1	YES	NO	MM	dd	0.126
16	Total-heptadoxins	41.28	1.592e2	1.560e2	1.132	1.02	1.05	4.0	YES	NO	bd	bd	0.028
17	Total-heptadoxins	40.08	2.310e3	2.210e3	1.132	1.04	1.05	30.9	YES	NO	bb	bb	0.404

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.67	1.525e3	1.768e3	1.018	0.86	0.77	8.2	YES	NO	dd	bd	0.099
2	Total-tetrafurans	24.26	1.235e3	1.899e3	1.018	0.65	0.77	9.4	YES	YES	dd	db	0.094
3	Total-tetrafurans	24.14	5.708e2	8.027e2	1.018	0.71	0.77	5.2	YES	NO	dd	dd	0.041
4	Total-tetrafurans	24.02	1.004e3	1.139e3	1.018	0.88	0.77	5.1	YES	NO	dd	bd	0.065
5	Total-tetrafurans	23.87	6.599e2	9.066e2	1.018	0.73	0.77	5.7	YES	NO	dd	db	0.047
6	Total-tetrafurans	23.76	1.412e3	1.684e3	1.018	0.84	0.77	8.6	YES	NO	dd	dd	0.093
7	Total-tetrafurans	23.66	1.655e3	2.016e3	1.018	0.82	0.77	9.8	YES	NO	dd	MM	0.111
8	Total-tetrafurans	23.55	1.726e3	1.399e3	1.018	1.23	0.77	7.1	YES	YES	MM	MM	0.094
9	Total-tetrafurans	23.36	2.694e3	3.817e3	1.018	0.71	0.77	18.7	YES	NO	bd	bd	0.196
10	Total-tetrafurans	22.79	9.092e2	7.844e2	1.018	1.16	0.77	6.0	YES	YES	bb	bb	0.051
11	Total-tetrafurans	22.51	1.064e3	1.995e3	1.018	0.53	0.77	8.5	YES	YES	bb	bb	0.092
12	Total-Furans	28.08	5.322e2	1.781e2	1.138	2.99	0.77	3.1	NO	YES	bb	bb	0.019
13	Total-tetrafurans	26.23	1.902e3	2.675e3	1.018	0.71	0.77	15.5	YES	NO	db	dd	0.138
14	2378-TCDF	26.00	2.188e3	3.647e3	1.018	0.60	0.77	15.5	YES	YES	bd	bd	0.176
15	Total-tetrafurans	25.75	1.562e3	2.033e3	1.018	0.77	0.77	6.7	YES	NO	bb	MM	0.108
16	Total-tetrafurans	25.32	9.336e2	9.065e2	1.018	1.03	0.77	6.4	YES	YES	dd	bb	0.055
17	Total-tetrafurans	25.09	9.161e2	5.977e2	1.018	1.53	0.77	6.0	YES	YES	dd	bb	0.046
18	Total-tetrafurans	24.90	2.606e3	3.501e3	1.018	0.74	0.77	17.1	YES	NO	dd	db	0.184
19	Total-tetrafurans	24.76	6.573e2	5.701e2	1.018	1.15	0.77	5.8	YES	YES	dd	dd	0.037
20	23478-PeCDF	31.48	9.330e2	4.323e2	1.019	2.16	1.55	6.5	YES	YES	bb	bb	0.048
21	Total-pentafurans	28.98	6.418e3	7.136e3	0.998	0.90	1.55	37.0	YES	YES	MM	bb	0.486
22	Total-pentafurans	28.73	1.525e3	8.533e2	0.998	1.79	1.55	12.7	YES	YES	bb	bb	0.085
23	Total-hexafurans	33.65	6.890e2	1.625e2	1.138	4.24	1.24	6.3	YES	YES	MM	bb	0.044
24	Total-hexafurans	34.52	2.782e2	2.014e2	1.138	1.38	1.24	3.5	YES	NO	db	db	0.025
25	Total-penta1	27.41	2.160e3	7.940e2		2.72	1.55	19.6	YES	YES	bd	bb	0.115
26	Total-tetradoxins	26.27	1.443e3	1.890e3	1.244	0.76	0.77	18.4	YES	NO	bb	bb	0.160
27	Total-tetradoxins	25.84	3.677e2	3.234e2	1.244	1.14	0.77	5.4	YES	YES	bb	bb	0.033
28	Total-tetradoxins	25.26	1.052e3	9.903e2	1.244	1.06	0.77	15.1	YES	YES	db	bd	0.098
29	Total-tetradoxins	24.99	7.336e2	1.039e3	1.244	0.71	0.77	10.0	YES	NO	bd	bb	0.085
30	Total-tetradoxins	24.27	5.448e2	9.172e2	1.244	0.59	0.77	4.9	YES	YES	db	db	0.070
31	Total-tetradoxins	24.06	1.696e3	1.910e3	1.244	0.89	0.77	23.8	YES	YES	bd	dd	0.173
32	Total-tetradoxins	23.78	5.493e3	7.667e3	1.244	0.72	0.77	78.8	YES	NO	bb	bd	0.632
33	2378-TCDD	26.65	6.696e2	1.777e3	1.244	0.38	0.77	6.6	YES	YES	bb	bd	0.117
34	Total-pentadoxins	30.49	4.681e2	3.425e2	1.058	1.37	1.55	4.9	YES	NO	db	db	0.050
35	Total-pentadoxins	30.37	9.999e2	4.430e2	1.058	2.26	1.55	8.9	YES	YES	bd	bd	0.089
36	Total-pentadoxins	30.15	1.622e3	8.774e2	1.058	1.85	1.55	13.6	YES	YES	bb	bb	0.154
37	Total-pentadoxins	29.03	1.834e3	1.129e3	1.058	1.62	1.55	11.6	YES	NO	bb	MM	0.183
38	Total-hexadoxins	34.22	9.592e2	8.192e2	1.047	1.17	1.24	9.8	YES	NO	bb	bb	0.135
39	OCDD	47.24	3.076e3	2.820e3	1.117	1.09	0.89	36.0	YES	YES	bb	MM	0.741
40	1234678-HpCDD	41.36	6.923e2	7.189e2	1.132	0.96	1.05	9.1	YES	NO	MM	dd	0.126
41	Total-heptadoxins	41.28	1.592e2	1.560e2	1.132	1.02	1.05	4.0	YES	NO	bd	bd	0.028
42	Total-heptadoxins	40.08	2.310e3	2.210e3	1.132	1.04	1.05	30.9	YES	NO	bb	bb	0.404

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.69	7.741e4					1.7	NO		db		
2	FUNCTION1 PFK	21.55	1.056e5					1.8	NO		dd		
3	FUNCTION1 PFK	21.49	1.019e5					1.9	NO		bd		
4	FUNCTION1 PFK	21.37	3.093e5					3.4	YES		db		
5	FUNCTION1 PFK	21.19	1.264e4					0.6	NO		bd		
6	FUNCTION1 PFK	23.66	5.360e5					5.5	YES		dd		
7	FUNCTION1 PFK	23.49	4.324e5					5.1	YES		dd		
8	FUNCTION1 PFK	23.39	3.378e5					4.4	YES		dd		
9	FUNCTION1 PFK	23.30	2.815e5					4.1	YES		dd		
10	FUNCTION1 PFK	23.18	2.251e5					3.3	YES		dd		
11	FUNCTION1 PFK	23.08	3.100e5					3.9	YES		dd		
12	FUNCTION1 PFK	22.99	1.707e5					3.2	YES		dd		
13	FUNCTION1 PFK	22.93	1.889e5					3.0	NO		dd		
14	FUNCTION1 PFK	22.81	1.799e5					2.1	NO		dd		
15	FUNCTION1 PFK	22.64	2.363e5					2.2	NO		bd		
16	FUNCTION1 PFK	22.37	1.046e5					1.4	NO		db		
17	FUNCTION1 PFK	22.25	4.214e4					1.2	NO		dd		
18	FUNCTION1 PFK	22.16	1.695e4					0.6	NO		bd		
19	FUNCTION1 PFK	22.10	4.049e4					1.0	NO		bb		
20	FUNCTION1 PFK	21.95	3.775e4					1.4	NO		bb		
21	FUNCTION1 PFK	21.88	2.833e4					1.2	NO		bb		
22	FUNCTION1 PFK	26.30	1.247e6					10.7	YES		dd		
23	FUNCTION1 PFK	26.29	5.818e5					10.8	YES		dd		
24	FUNCTION1 PFK	26.12	1.136e6					7.8	YES		bd		
25	FUNCTION1 PFK	25.72	1.284e5					2.2	NO		bb		
26	FUNCTION1 PFK	25.56	8.406e4					1.6	NO		bb		
27	FUNCTION1 PFK	25.44	5.268e4					1.2	NO		db		
28	FUNCTION1 PFK	25.38	2.603e4					0.8	NO		bd		
29	FUNCTION1 PFK	25.14	5.042e4					1.3	NO		bb		
30	FUNCTION1 PFK	24.82	6.835e4					1.7	NO		bb		
31	FUNCTION1 PFK	24.73	7.900e4					1.8	NO		db		
32	FUNCTION1 PFK	24.66	5.665e4					1.3	NO		dd		
33	FUNCTION1 PFK	24.55	1.455e5					2.5	NO		bd		
34	FUNCTION1 PFK	24.38	8.053e4					1.6	NO		bb		
35	FUNCTION1 PFK	23.87	3.327e5					6.1	YES		db		
36	FUNCTION1 PFK	23.78	4.750e5					6.4	YES		dd		
37	FUNCTION1 PFK	23.72	1.576e5					4.5	YES		dd		
38	FUNCTION1 PFK	28.24	2.277e5					4.8	YES		db		
39	FUNCTION1 PFK	28.14	3.978e5					7.7	YES		dd		
40	FUNCTION1 PFK	28.10	3.417e5					6.9	YES		dd		
41	FUNCTION1 PFK	27.93	1.704e6					9.5	YES		dd		
42	FUNCTION1 PFK	27.75	3.910e5					10.8	YES		dd		
43	FUNCTION1 PFK	27.74	5.258e5					10.6	YES		dd		
44	FUNCTION1 PFK	27.65	4.704e5					9.8	YES		dd		
45	FUNCTION1 PFK	27.60	4.200e5					8.9	YES		dd		
46	FUNCTION1 PFK	27.48	1.113e6					12.9	YES		dd		
47	FUNCTION1 PFK	27.20	4.891e6					16.0	YES		dd		
48	FUNCTION1 PFK	26.93	3.821e6					16.8	YES		bd		
49	FUNCTION1 PFK	26.62	2.052e6					17.8	YES		db		
50	FUNCTION1 PFK	26.51	8.974e5					13.9	YES		dd		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.53	3.771e4					5.0	YES		db		0.000
2	FUNCTION2 PFK	28.39	1.371e5					4.4	YES		bd		0.000
3	FUNCTION2 PFK	32.24	3.890e4					4.0	YES		bb		0.000
4	FUNCTION2 PFK	32.08	3.261e4					3.8	YES		bb		0.000
5	FUNCTION2 PFK	31.24	3.094e5					9.2	YES		bb		0.000
6	FUNCTION2 PFK	31.00	2.746e5					10.8	YES		bb		0.000
7	FUNCTION2 PFK	29.09	1.995e5					5.5	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.64	2.783e6					39.4	YES		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	47.13	1.129e6					35.8	YES		db		
2	FUNCTION5 PFK	46.98	2.351e6					39.9	YES		bd		
3	FUNCTION5 PFK	46.69	1.574e6					33.7	YES		db		
4	FUNCTION5 PFK	46.47	1.735e6					26.5	YES		dd		
5	FUNCTION5 PFK	46.23	6.903e5					17.2	YES		bd		
6	FUNCTION5 PFK	45.60	1.233e5					5.9	YES		bb		
7	FUNCTION5 PFK	44.85	4.615e5					13.5	YES		bb		
8	FUNCTION5 PFK	49.40	2.656e5					1.7	NO		bb		
9	FUNCTION5 PFK	49.07	7.219e5					13.0	YES		bb		
10	FUNCTION5 PFK	48.56	3.150e5					12.1	YES		db		
11	FUNCTION5 PFK	48.42	4.959e5					13.7	YES		bd		
12	FUNCTION5 PFK	48.17	1.913e6					31.2	YES		db		
13	FUNCTION5 PFK	47.90	8.218e6					39.4	YES		bd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.59	3.133e2					4.4	YES		db		0.000
2	FUNCTION1 HXCD...	27.51	1.694e2					4.4	YES		bd		0.000
3	FUNCTION1 HXCD...	26.24	1.792e2					4.4	YES		db		0.000
4	FUNCTION1 HXCD...	26.06	5.450e4					735.8	YES		bd		0.000
5	FUNCTION1 HXCD...	25.79	1.216e4					171.1	YES		bb		0.000
6	FUNCTION1 HXCD...	25.60	9.130e1					3.1	YES		bb		0.000
7	FUNCTION1 HXCD...	25.41	1.081e2					2.1	NO		bb		0.000
8	FUNCTION1 HXCD...	24.03	1.718e2					2.4	NO		db		0.000
9	FUNCTION1 HXCD...	23.85	1.060e2					2.5	NO		bd		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.65	9.908e1					2.0	NO		bb		0.000
2	FUNCTION1 HPCD...	23.14	7.164e1					2.2	NO		bb		0.000
3	FUNCTION1 HPCD...	22.31	2.636e3					47.2	YES		bb		0.000
4	FUNCTION1 HPCD...	21.36	1.429e2					3.5	YES		bb		0.000
5	FUNCTION1 HPCD...	21.18	8.796e2					15.0	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.82	7.959e1					1.9	NO		bb		0.000
2	FUNCTION2 HPCD...	32.74	9.056e1					1.9	NO		db		0.000
3	FUNCTION2 HPCD...	32.62	2.212e2					3.3	YES		bd		0.000
4	FUNCTION2 HPCD...	29.76	1.888e2					2.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.21	8.794e1					1.9	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.36	1.504e2					2.2	NO		bb		0.000
2	FUNCTION3 OCDPE	33.92	1.272e2					1.9	NO		bb		0.000
3	FUNCTION3 OCDPE	33.81	8.331e1					2.2	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.09	2.898e3					47.9	YES		bb		0.000

ETHERS6

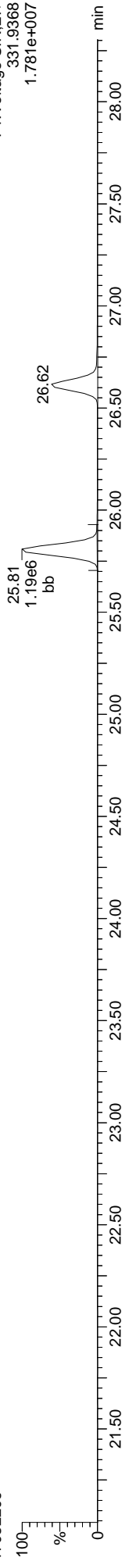
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

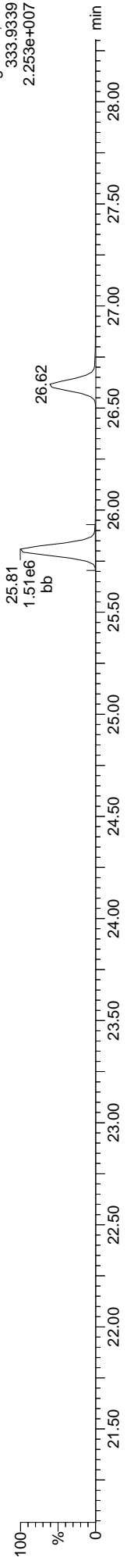
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-04, Name: 170522209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

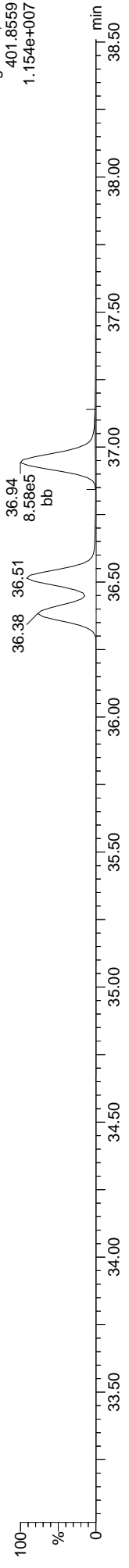
13C-1234-TCDD
170522209



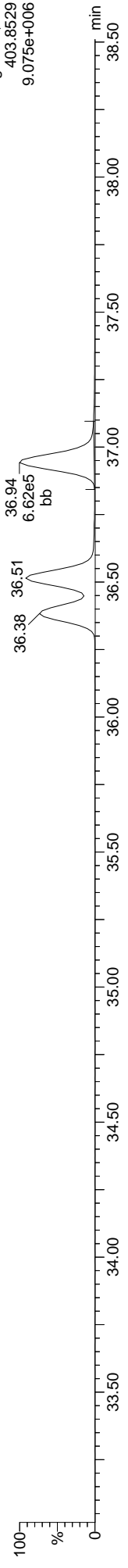
13C-1234-TCDD
170522209



13C-123789-HxCDD
170522209



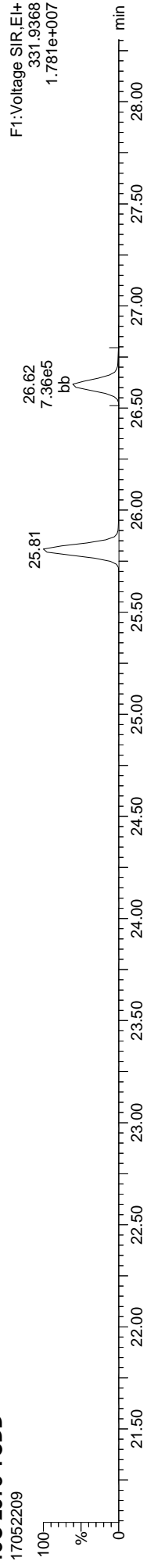
13C-123789-HxCDD
170522209



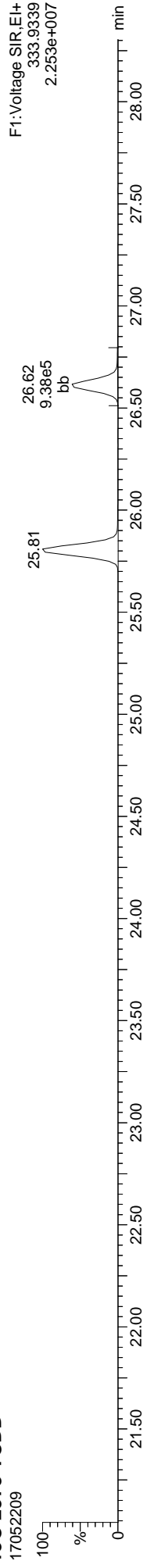
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

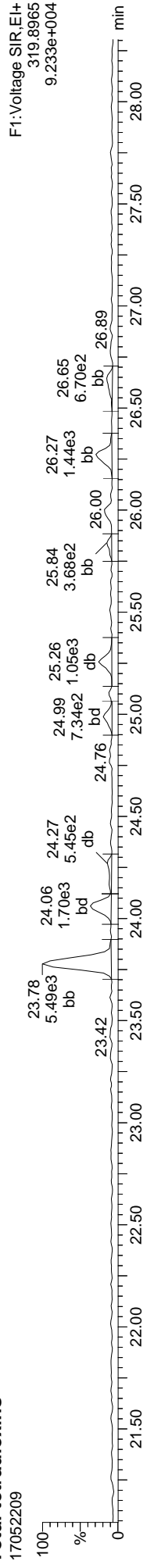
13C-2378-TCDD



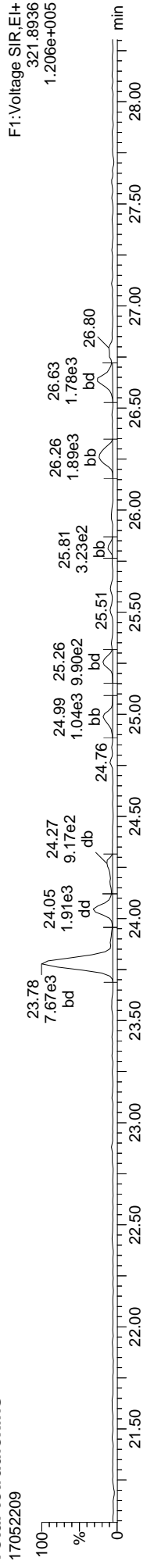
13C-2378-TCDD



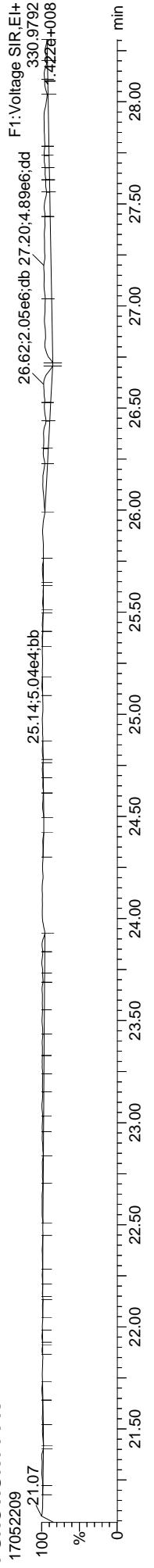
Total-tetradiioxins



Total-tetradiioxins



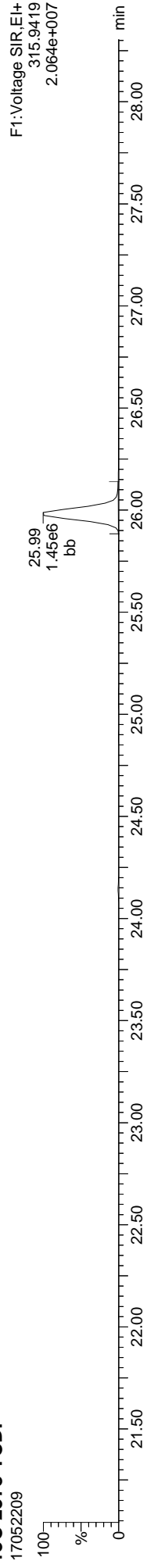
FUNCTION1 PFK



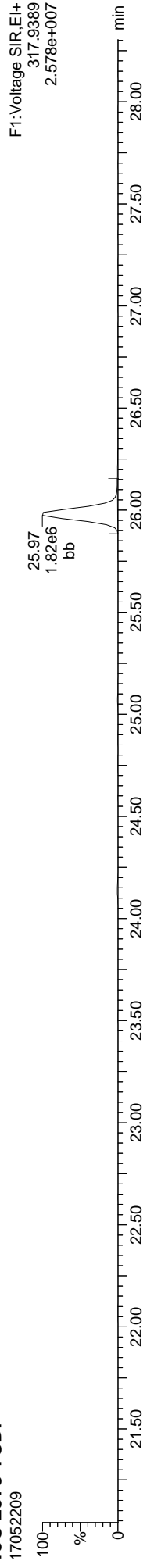
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

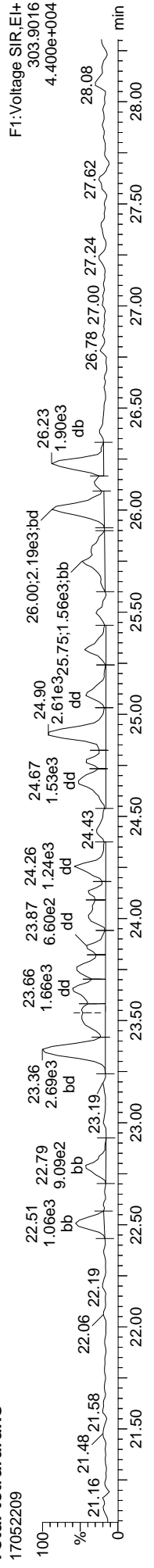
13C-2378-TCDF



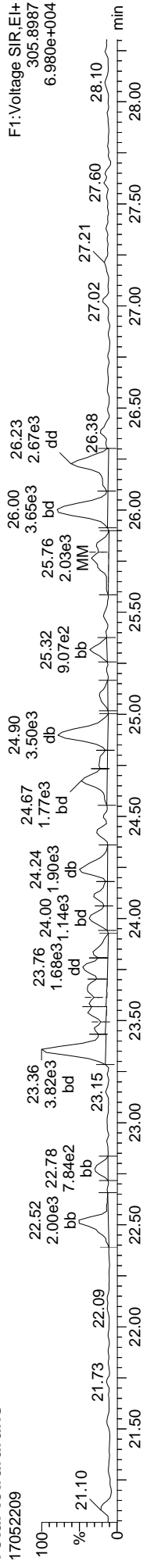
13C-2378-TCDF



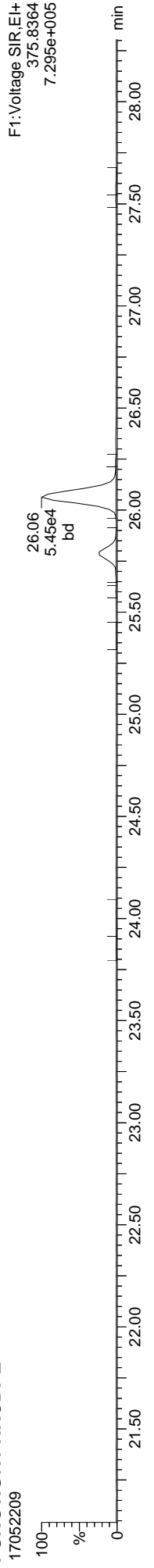
Total-tetrafurans



Total-tetrafurans



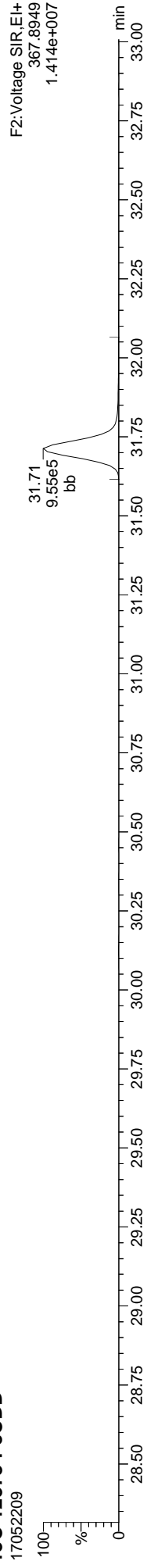
FUNCTION1 HXCDFE



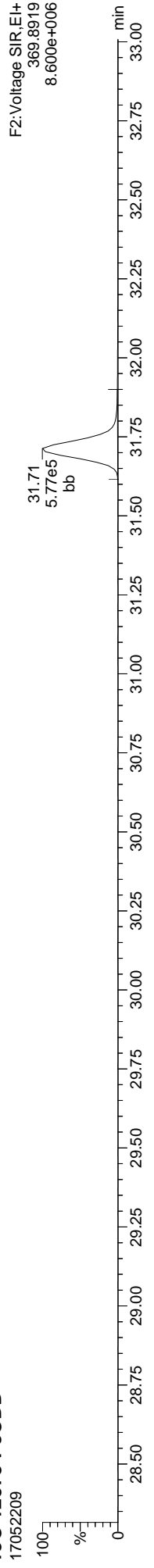
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

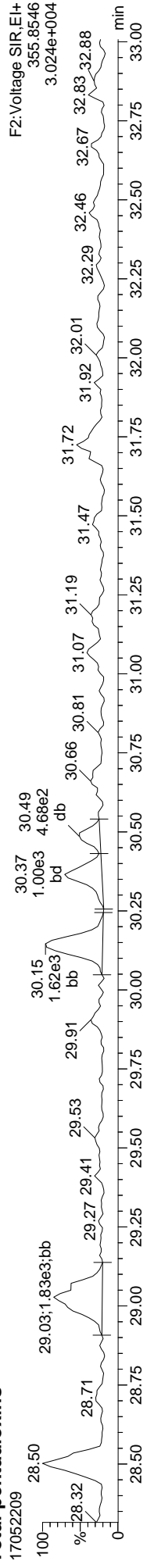
13C-12378-PeCDD



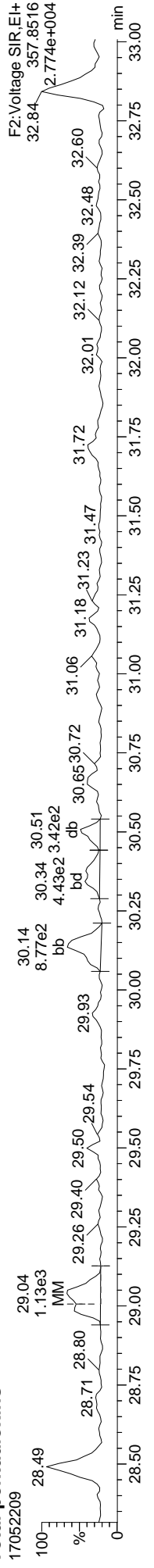
13C-12378-PeCDD



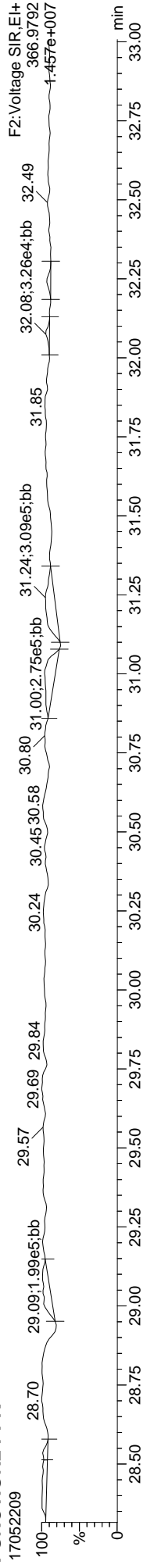
Total-pentadioxins



Total-pentadioxins



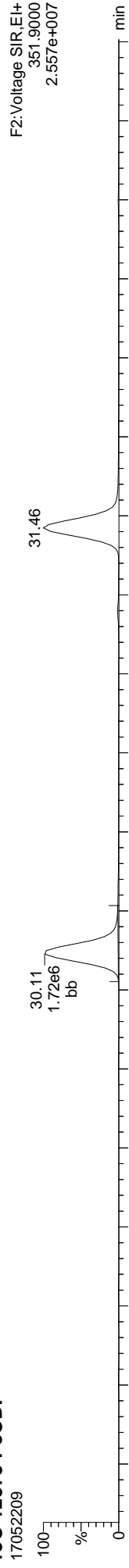
FUNCTION2 PFK



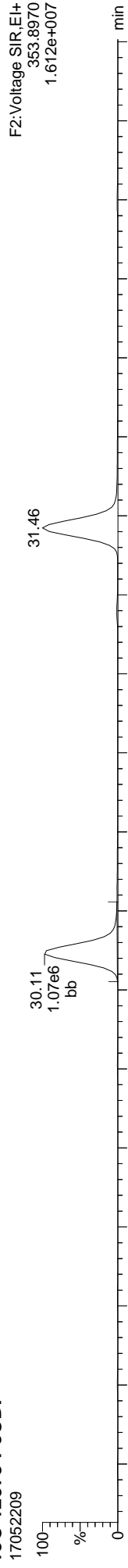
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

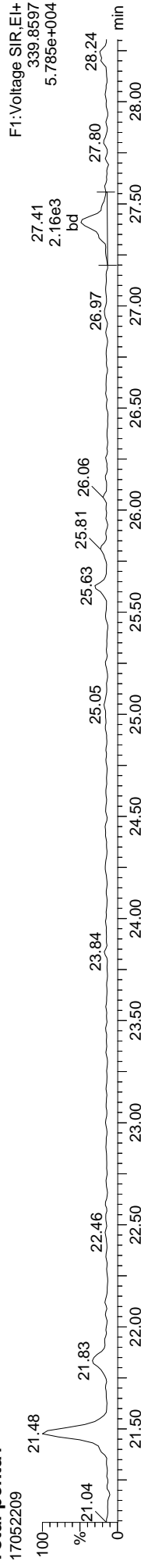
13C-12378-PeCDF



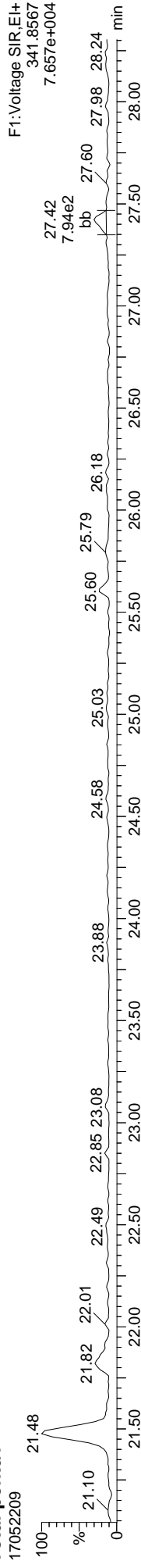
13C-12378-PeCDF



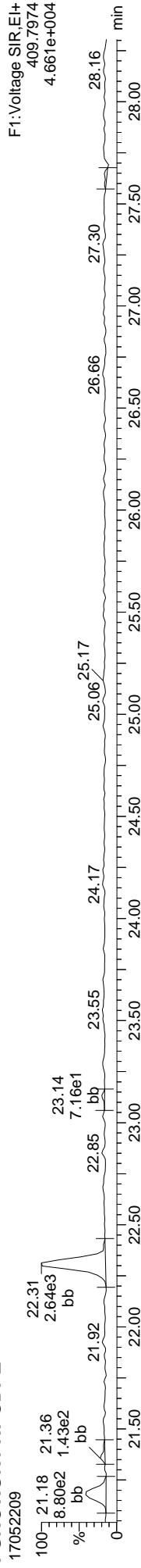
Total-penta1



Total-penta1



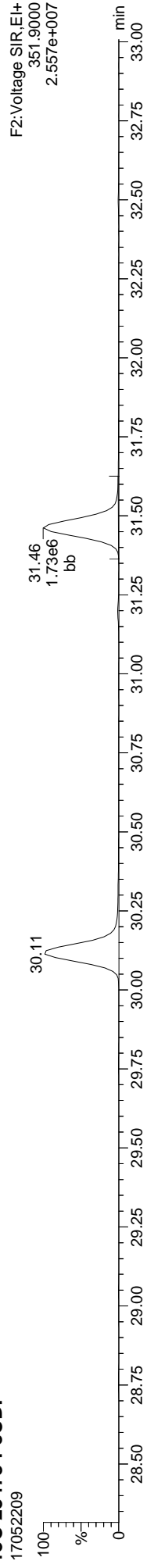
FUNCTION1 HPCDFE



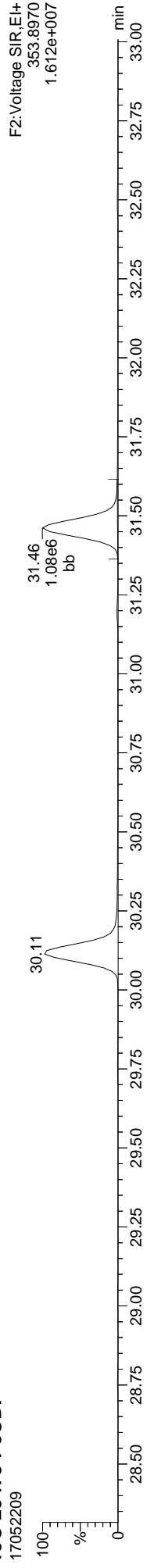
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

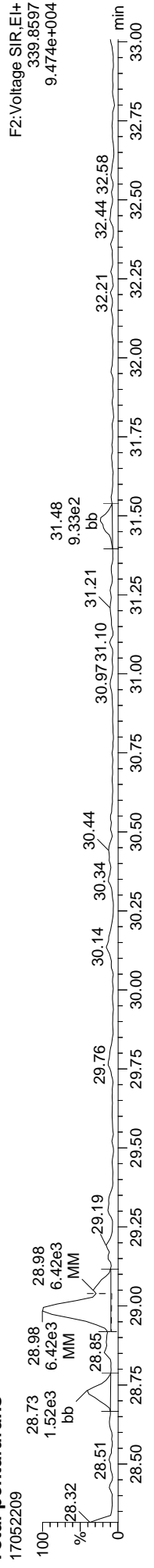
13C-23478-PeCDF



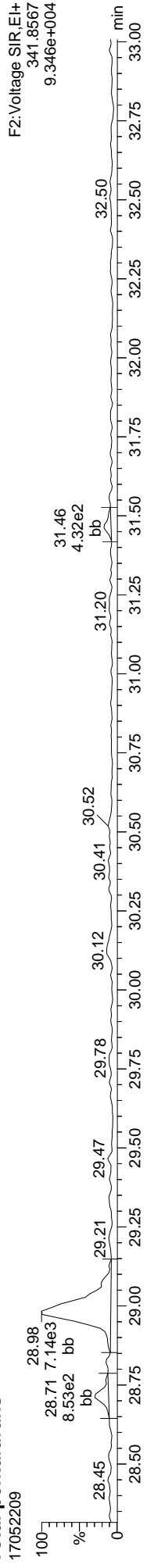
13C-23478-PeCDF



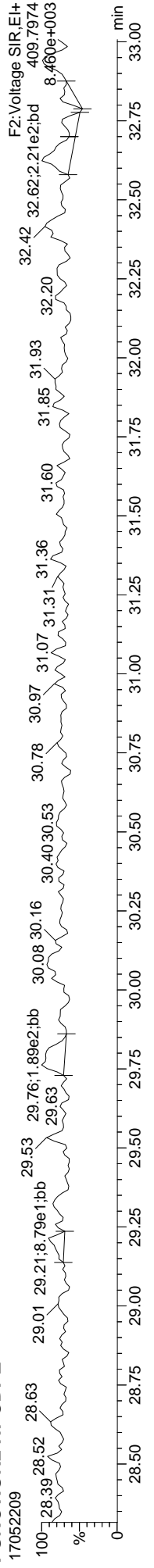
Total-pentafurans



Total-pentafurans



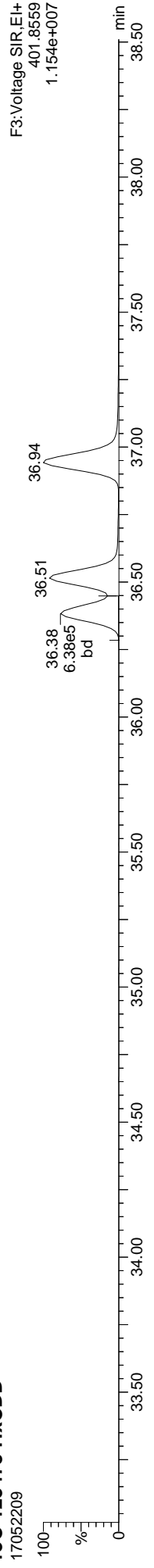
FUNCTION2 HPCDFE



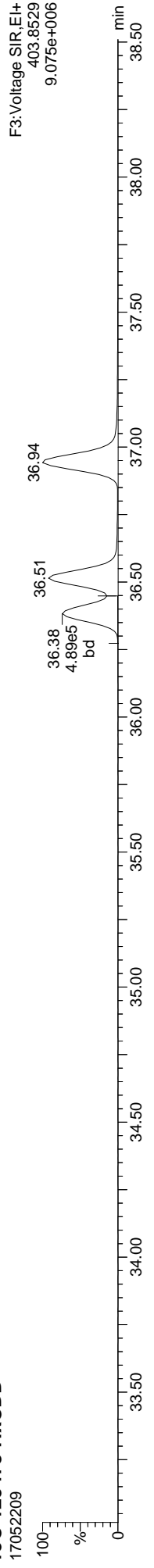
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

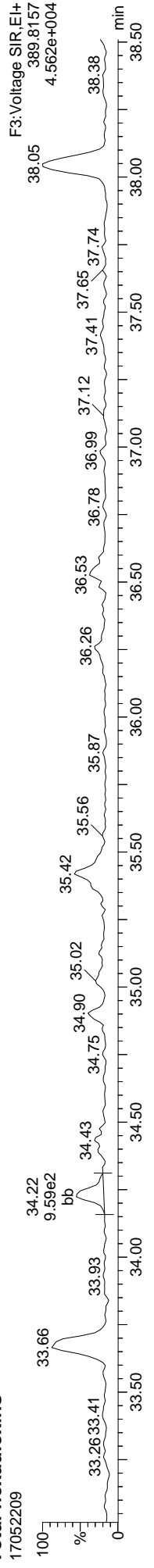
13C-123478-HxCDD



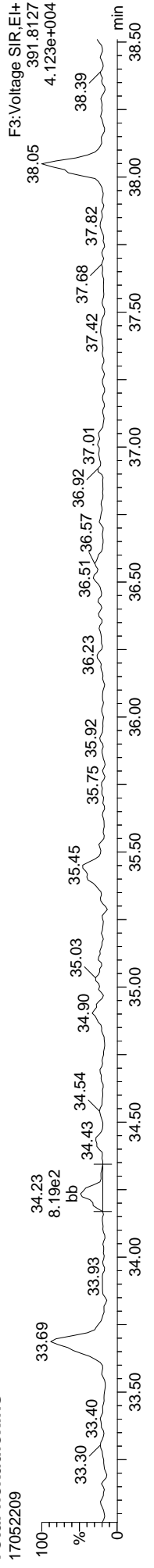
13C-123478-HxCDD



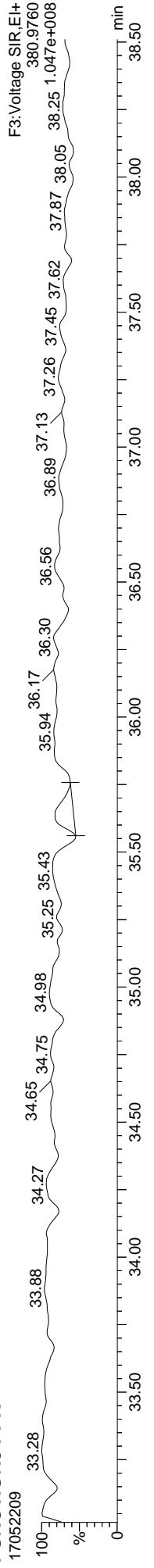
Total-hexadioxins



Total-hexadioxins



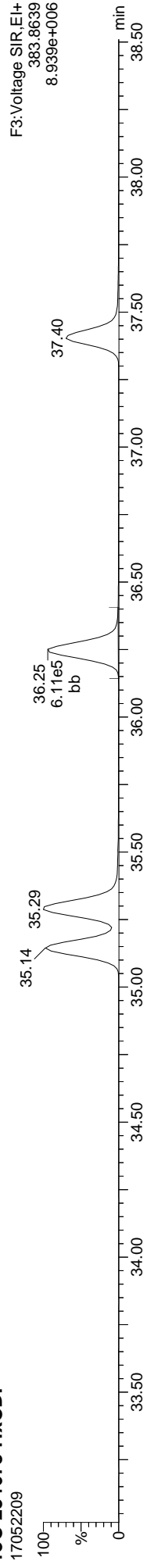
FUNCTION3 PFK



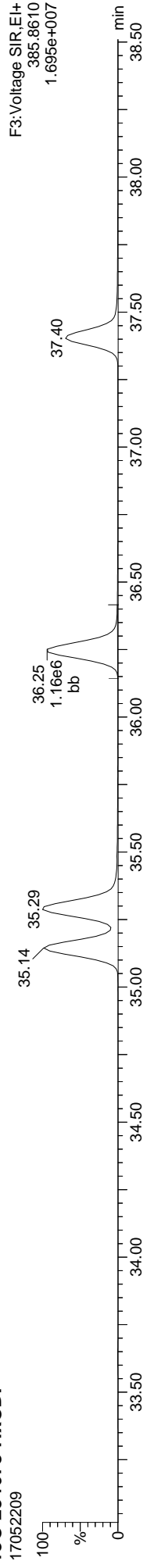
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

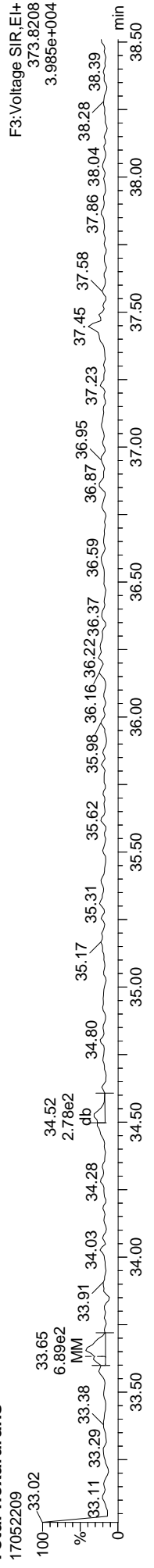
13C-234678-HxCDF



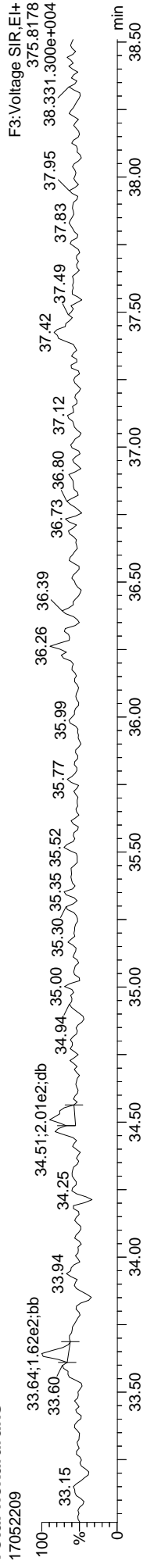
13C-234678-HxCDF



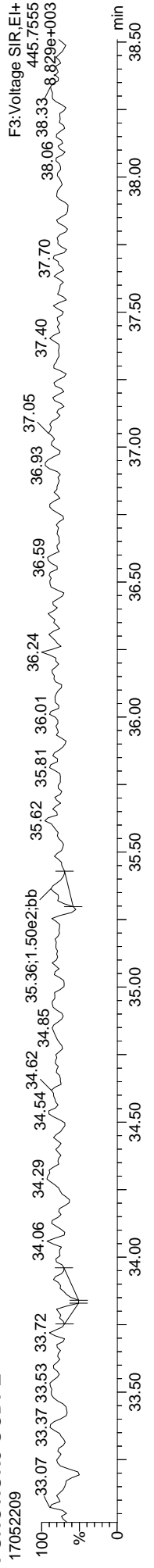
Total-hexafurans



Total-hexafurans



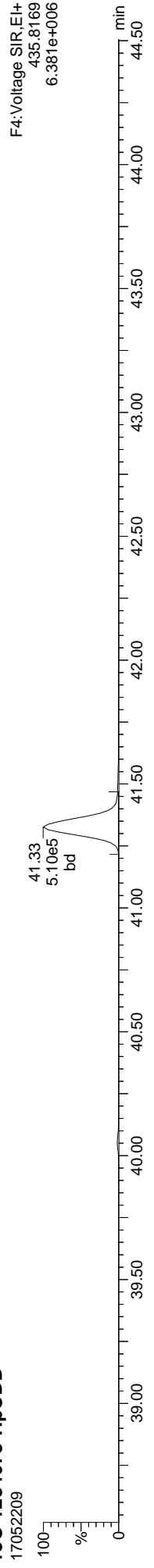
FUNCTION3 OCDPE



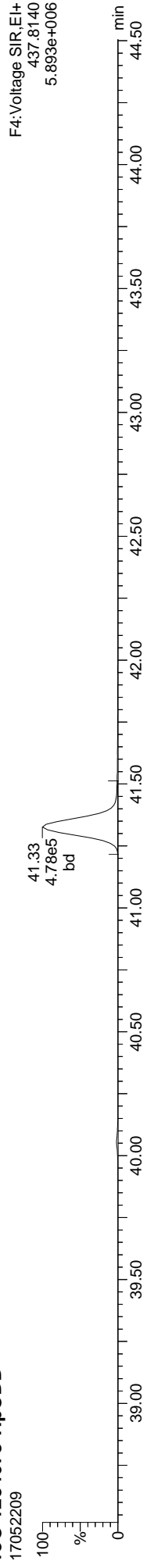
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

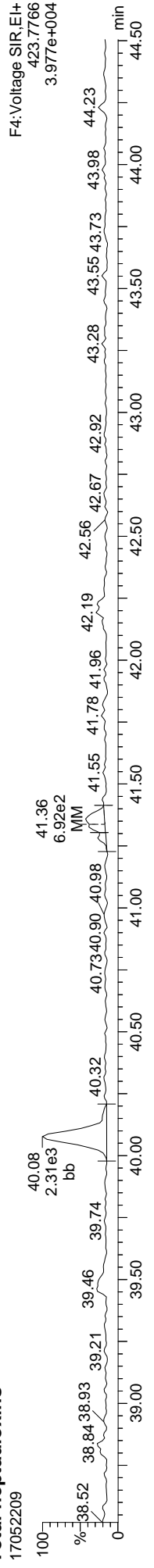
13C-1234678-HpCDD



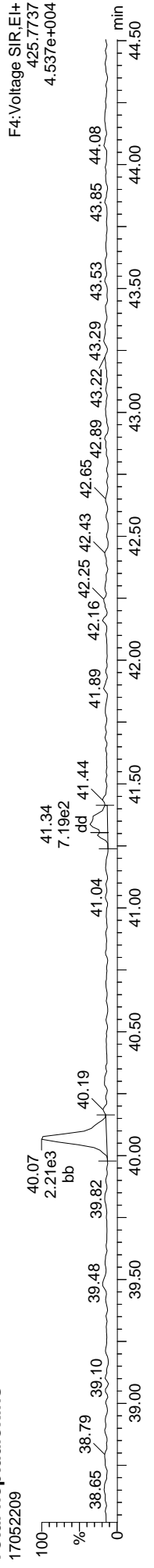
13C-1234678-HpCDD



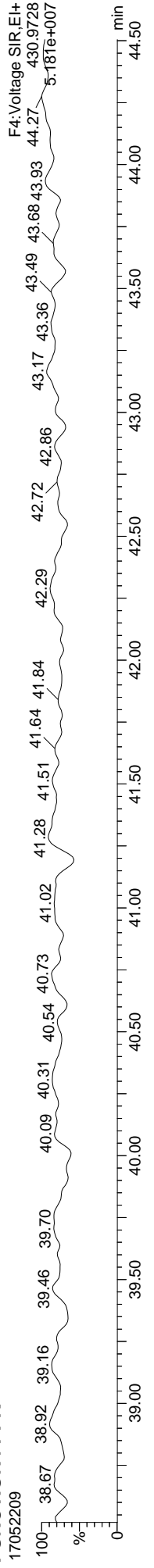
Total-heptadioxins



Total-heptadioxins



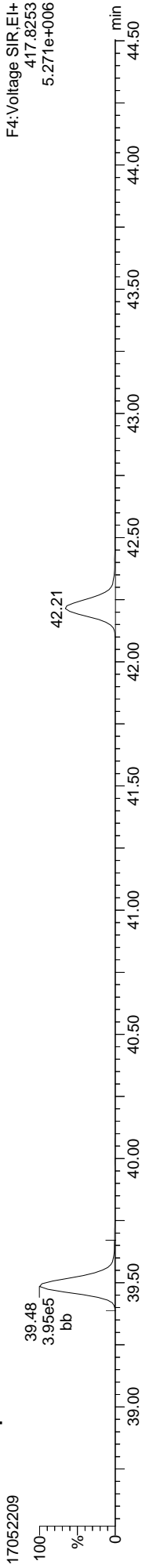
FUNCTION4 PFK



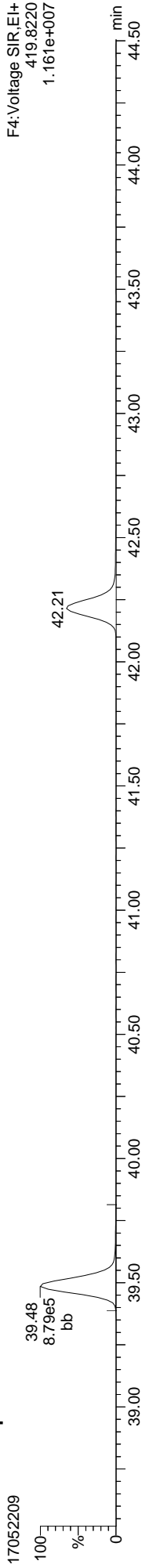
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

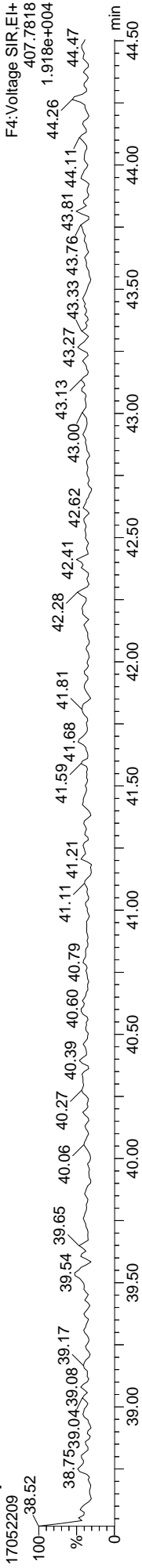
13C-1234678-HpCDF



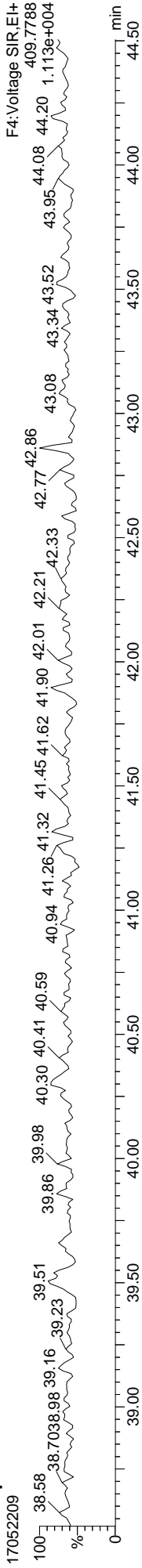
13C-1234678-HpCDF



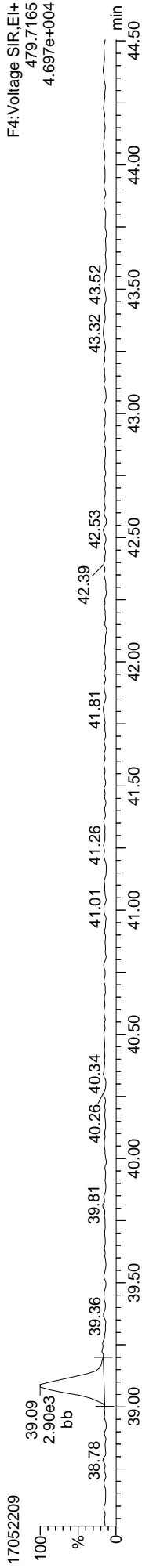
Total-heptafurans



Total-heptafurans



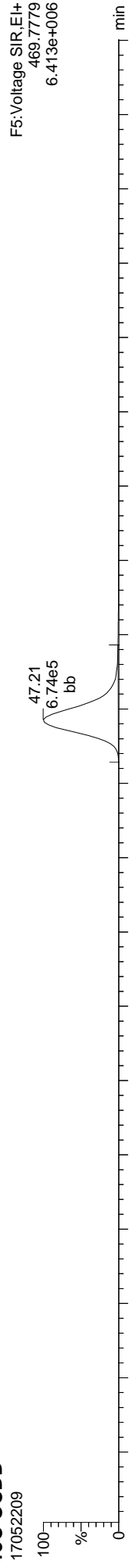
FUNCTION4 NCDPE



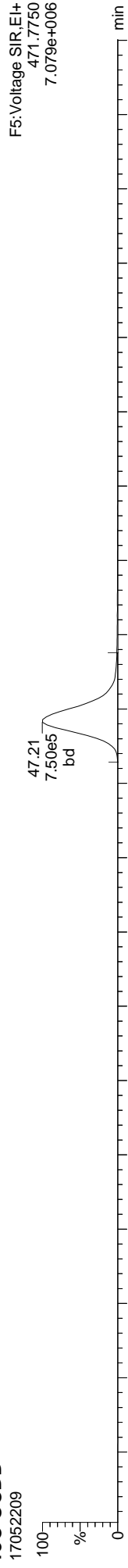
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

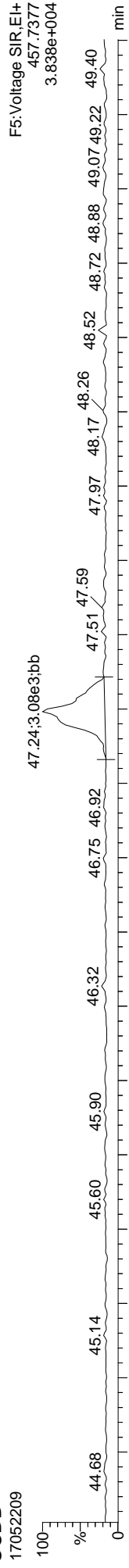
13C-OCDD



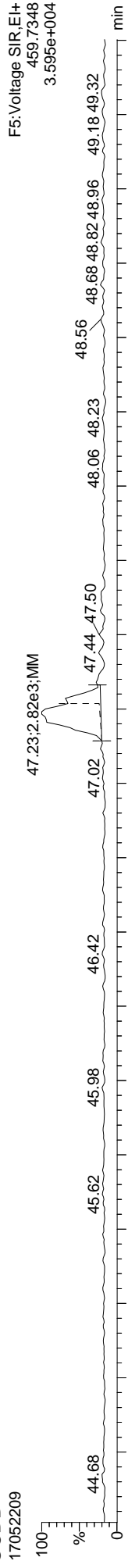
13C-OCDD



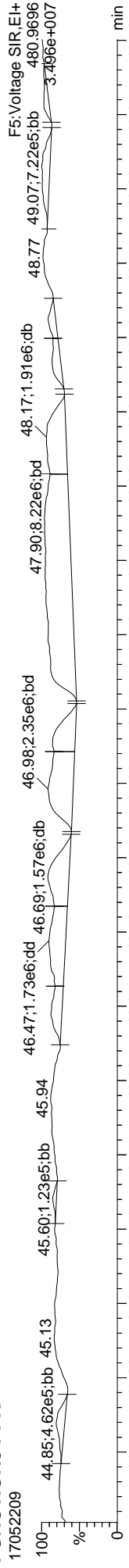
OCDD



OCDD



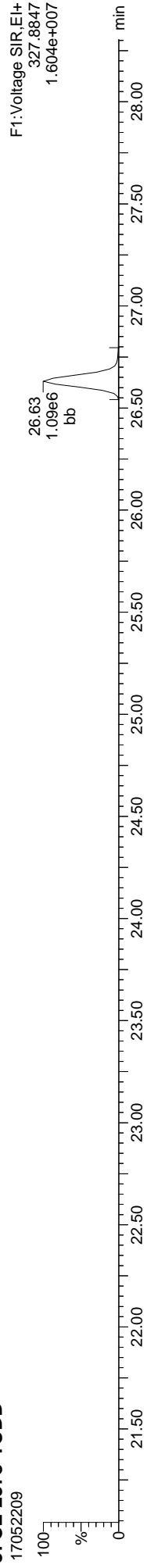
FUNCTION5 PFK



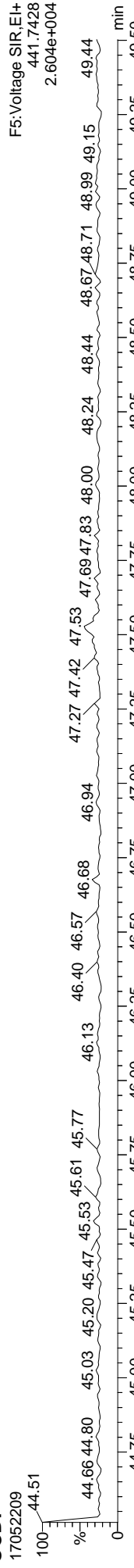
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:13 Pacific Daylight Time

ID: 17D0421-04, Name: 17052209, Date: 22-May-2017, Time: 16:30:22, Conditions: AUTOSPEC01, User: PK

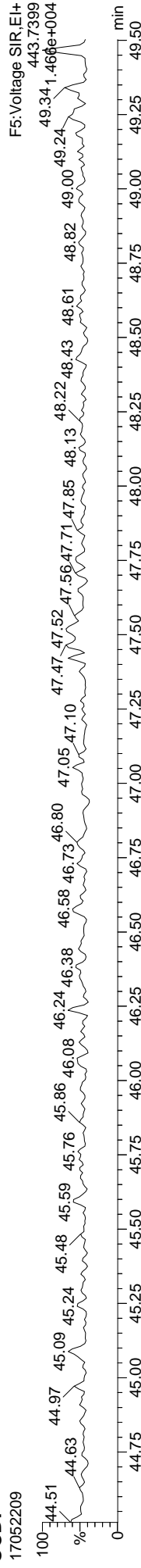
37CL-2378-TCDD



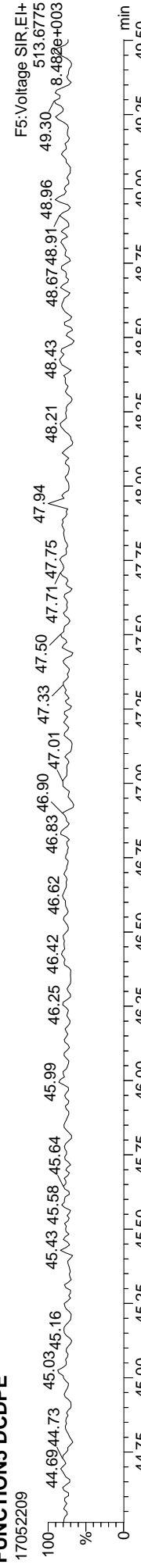
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-05 File ID: 17052210
 Sampled: 04/25/17 11:00 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 17:23
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.03 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.067	0.997	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.112	0.997	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.100	4.99	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.094	4.99	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.148	4.99	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.105	1.054-1.426		4.99	0.090	ng/kg	J, B
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.088	4.99	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.091	4.99	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.126	4.99	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.141	4.99	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.151	4.99	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.161	4.99	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.450	0.893-1.208		4.99	0.200	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.162	4.99	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.762	0.893-1.208		4.99	0.715	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.651	0.757-1.024		9.97	0.527	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.812	0.757-1.024		9.97	4.86	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.997	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.997	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.997	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.997	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.997	0.090	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.997	0.158	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.997	0.200	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.997	2.74	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.020
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.020



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-05</u>
Sampled:	<u>04/25/17 11:00</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052210</u>
		Analyzed:	<u>05/22/17 17:23</u>
		Initial/Final:	<u>10.03 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.790	0.655-0.886		37.8	24 - 169 %	
13C12-2,3,7,8-TCDD		0.767	0.655-0.886		37.5	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.550	1.318-1.783		31.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.602	1.318-1.783		33.3	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.616	1.318-1.783		33.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.530	0.434-0.587		34.3	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.542	0.434-0.587		33.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.529	0.434-0.587		34.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.515	0.434-0.587		32.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.288	1.054-1.426		37.5	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.333	1.054-1.426		35.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.445	0.374-0.506		32.4	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.450	0.374-0.506		33.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.084	0.893-1.208		36.2	23 - 140 %	
13C12-OCDD		0.879	0.757-1.024		28.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			95.0	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDBIDioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-05, **Name:** 17052210, **Date:** 22-May-2017, **Time:** 17:23:42, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF					1.018		0.770	1040	1292									
12378-PeCDF					0.977		1.550	1155	1651									
23478-PeCDF					1.019		1.550	1155	1651									
123478-HxCDF	35.155	1.001	2.357e2	2.132e2	1.150	1.105	1.240	1189	952	5.43e3	3.27e3	4.6	YES	NO	bb	bb	0.045	
234678-HxCDF					1.188		1.240	1189	952									
123678-HxCDF					1.100		1.240	1189	952									
123789-HxCDF					1.116		1.240	1189	952									
1234678-HpCDF	39.408	1.000	5.059e2	3.490e2	1.238	1.450	1.050	953	1037	6.31e3	7.63e3	6.6	YES	YES	MM	MM	0.100	
1234789-HpCDF					1.257		1.050	953	1037									
OCDF	47.376	1.006	4.254e2	6.539e2	1.321	0.651	0.890	1410	1401	7.69e3	8.77e3	5.5	YES	YES	dd	MM	0.264	
2378-TCDD					1.244		0.770	1453	1050									
12378-PeCDD					1.058		1.550	1252	1129									
123478-HxCDD					1.119		1.240	1134	1326									
123678-HxCDD					1.040		1.240	1134	1326									
123789-HxCDD					0.981		1.240	1134	1326									
1234678-HpCDD	41.228	1.000	8.745e2	1.148e3	1.132	0.762	1.050	1045	739	1.36e4	2.03e4	13.0	YES	YES	bb	bb	0.359	
OCDD	47.107	1.001	3.773e3	4.649e3	1.117	0.812	0.890	1123	1081	4.35e4	4.81e4	38.7	YES	NO	bb	bb	2.437	
13C-2378-TCDF	25.989	1.007	6.273e5	7.944e5	1.685	0.790	0.770	7313	4097	8.97e6	1.12e7	1226.2	YES	NO	bb	bb	37.840	
13C-12378-PeCDF	30.113	1.167	7.316e5	4.721e5	1.706	1.550	1.550	3310	2793	1.05e7	6.62e6	3157.1	YES	NO	bb	bd	31.643	
13C-23478-PeCDF	31.462	1.219	7.471e5	4.662e5	1.632	1.602	1.550	3310	2793	1.08e7	6.83e6	3248.2	YES	NO	bb	bb	33.339	
13C-123478-HxCDF	35.123	0.952	2.983e5	5.624e5	1.682	0.530	0.510	3469	2450	4.46e6	8.39e6	1285.1	YES	NO	bd	bd	34.344	
13C-123678-HxCDF	35.276	0.956	3.417e5	6.305e5	1.945	0.542	0.510	3469	2450	4.66e6	8.74e6	1344.4	YES	NO	db	db	33.546	
13C-234678-HxCDF	36.219	0.981	2.820e5	5.328e5	1.582	0.529	0.510	3469	2450	4.09e6	7.69e6	1178.2	YES	NO	bb	bb	34.570	
13C-123789-HxCDF	37.369	1.013	2.140e5	4.159e5	1.291	0.515	0.510	3469	2450	3.08e6	6.04e6	889.0	YES	NO	bb	bb	32.756	
13C-1234678-HpCDF	39.419	1.068	2.120e5	4.769e5	1.427	0.445	0.440	2161	2396	2.94e6	6.41e6	1359.3	YES	NO	bb	bb	32.417	
13C-1234789-HpCDF	42.105	1.141	1.484e5	3.301e5	0.957	0.450	0.440	2161	2396	1.82e6	4.05e6	841.1	YES	NO	bd	bd	33.560	
13C-1234-TCDD	25.809	0.000	9.753e5	1.255e6	1.000	0.777	0.770	3491	1586	1.48e7	1.90e7	4248.3	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.616	1.031	3.167e5	4.131e5	0.873	0.767	0.770	3491	1586	4.67e6	5.91e6	1336.5	YES	NO	bb	bb	37.497	
13C-12378-PeCDD	31.703	1.228	3.918e5	2.425e5	0.860	1.616	1.550	1317	1365	5.61e6	3.52e6	4262.7	YES	NO	bb	bb	33.073	
13C-123478-HxCDD	36.350	0.985	3.501e5	2.718e5	1.114	1.288	1.240	2066	1792	5.24e6	4.13e6	2535.8	YES	NO	bd	bd	37.487	
13C-123678-HxCDD	36.482	0.988	3.824e5	2.869e5	1.258	1.333	1.240	2066	1792	5.36e6	4.18e6	2593.6	YES	NO	db	db	35.697	
13C-1234678-HpCDD	41.217	1.117	2.592e5	2.390e5	0.924	1.084	1.050	2045	1919	3.36e6	3.12e6	1643.0	YES	NO	bd	bd	36.208	
13C-OCDD	47.080	1.276	2.896e5	3.293e5	0.738	0.879	0.890	1414	1700	2.76e6	3.12e6	1950.2	YES	NO	bd	bd	56.270	
13C-123789-HxCDD	36.909	0.000	8.307e5	6.591e5	1.000	1.260	1.240	2066	1792	1.20e7	9.62e6	5826.1	YES	NO	bb	bb	100.000	
Total-tetrafurans			0.000e0		1.018			1040		0.00e0								

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld

Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					996		0.00e0								
Total-pentafurans			0.000e0		0.998			1155		0.00e0								
Total-hexafurans			2.357e2		1.138			1189		5.43e3								0.045
Total-heptafurans			5.059e2		1.248			953		6.31e3								0.100
Total-Furans			1.167e3		1.138			1040		1.94e4								0.410
Total-tetradioxins			0.000e0		1.244			1453		0.00e0								
Total-pentadioxins			0.000e0		1.058			1252		0.00e0								
Total-hexadioxins			1.137e2		1.047			1134		4.46e3								0.079
Total-heptadioxins			3.865e3		1.132			1045		5.46e4								1.375
Total-Dioxins			7.752e3		1.099			1453		1.03e5								3.891
Total-TEQ			8.919e3					1453		1.22e5								4.301
37CL-2378-TCDD	26.631	1.032	8.658e5		1.021			1475		1.26e7		8512.4	YES		bb			38.016
FUNCTION1 PFK			2.160e6					961769		3.66e7								
FUNCTION2 PFK			3.111e5					159317		5.34e6								0.000
FUNCTION3 PFK			2.245e7					794387		1.41e8								0.000
FUNCTION4 PFK			1.871e5					453439		5.75e6								
FUNCTION5 PFK			3.120e5					308471		1.22e7								
FUNCTION1 HXCD...			1.922e3					1024		2.68e4								0.000
FUNCTION1 HPCD...			1.166e3					963		1.89e4								0.000
FUNCTION2 HPCD...			2.396e2					1058		5.55e3								0.000
FUNCTION3 OCDPE			2.653e2					828		6.89e3								0.000
FUNCTION4 NCDPE			2.349e2					790		5.38e3								0.000
FUNCTION5 DCDPE			2.512e2					940		5.83e3								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.16	2.357e2	2.132e2	1.150	1.11	1.24	4.6	YES	NO	bb	bb	0.045

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.41	5.059e2	3.490e2	1.238	1.45	1.05	6.6	YES	YES	MM	MM	0.100

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.16	2.357e2	2.132e2	1.150	1.11	1.24	4.6	YES	NO	bb	bb	0.045
2	1234678-HpCDF	39.41	5.059e2	3.490e2	1.238	1.45	1.05	6.6	YES	YES	MM	MM	0.100
3	OCDF	47.38	4.254e2	6.539e2	1.321	0.65	0.89	5.5	YES	YES	dd	MM	0.264

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.25	1.137e2	4.206e2	1.047	0.27	1.24	3.9	YES	YES	db	bb	0.079

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.23	8.745e2	1.148e3	1.132	0.76	1.05	13.0	YES	YES	bb	bb	0.359
2	Total-heptadioxins	39.99	2.991e3	2.744e3	1.132	1.09	1.05	39.3	YES	NO	bd	bb	1.017

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.25	1.137e2	4.206e2	1.047	0.27	1.24	3.9	YES	YES	db	bb	0.079
2	1234678-HpCDD	41.23	8.745e2	1.148e3	1.132	0.76	1.05	13.0	YES	YES	bb	bb	0.359
3	Total-heptadioxins	39.99	2.991e3	2.744e3	1.132	1.09	1.05	39.3	YES	NO	bd	bb	1.017
4	OCDD	47.11	3.773e3	4.649e3	1.117	0.81	0.89	38.7	YES	NO	bb	bb	2.437

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.16	2.357e2	2.132e2	1.150	1.11	1.24	4.6	YES	NO	bb	bb	0.045
2	1234678-HpCDF	39.41	5.059e2	3.490e2	1.238	1.45	1.05	6.6	YES	YES	MM	MM	0.100
3	OCDF	47.38	4.254e2	6.539e2	1.321	0.65	0.89	5.5	YES	YES	dd	MM	0.264
4	Total-hexadioxins	34.25	1.137e2	4.206e2	1.047	0.27	1.24	3.9	YES	YES	db	bb	0.079
5	1234678-HpCDD	41.23	8.745e2	1.148e3	1.132	0.76	1.05	13.0	YES	YES	bb	bb	0.359
6	Total-heptadioxins	39.99	2.991e3	2.744e3	1.132	1.09	1.05	39.3	YES	NO	bd	bb	1.017
7	OCDD	47.11	3.773e3	4.649e3	1.117	0.81	0.89	38.7	YES	NO	bb	bb	2.437

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.39	6.068e4					1.4	NO		dd		
2	FUNCTION1 PFK	25.32	1.575e5					2.3	NO		bd		
3	FUNCTION1 PFK	25.20	5.012e4					1.6	NO		db		
4	FUNCTION1 PFK	25.15	5.487e4					1.3	NO		bd		
5	FUNCTION1 PFK	23.99	4.781e4					1.0	NO		bb		
6	FUNCTION1 PFK	23.87	1.388e5					3.2	YES		db		
7	FUNCTION1 PFK	23.84	2.649e5					3.7	YES		bd		
8	FUNCTION1 PFK	23.63	6.432e3					0.4	NO		bb		
9	FUNCTION1 PFK	22.90	3.276e4					0.9	NO		bb		
10	FUNCTION1 PFK	22.34	1.463e5					2.1	NO		db		
11	FUNCTION1 PFK	22.27	1.534e4					0.6	NO		bd		
12	FUNCTION1 PFK	22.12	3.680e4					1.1	NO		bb		
13	FUNCTION1 PFK	21.49	1.269e5					2.0	NO		bb		
14	FUNCTION1 PFK	28.02	2.877e4					0.8	NO		bb		
15	FUNCTION1 PFK	27.36	5.067e4					1.0	NO		bb		
16	FUNCTION1 PFK	27.06	9.700e4					2.1	NO		bb		
17	FUNCTION1 PFK	26.97	5.161e4					0.9	NO		bb		
18	FUNCTION1 PFK	26.59	3.497e5					2.7	NO		bb		
19	FUNCTION1 PFK	26.38	1.619e5					2.9	NO		bb		
20	FUNCTION1 PFK	25.70	5.746e4					1.4	NO		db		
21	FUNCTION1 PFK	25.63	4.378e4					1.1	NO		bd		
22	FUNCTION1 PFK	25.54	1.096e5					1.9	NO		db		
23	FUNCTION1 PFK	25.45	6.983e4					1.7	NO		dd		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.02	1.432e4					2.5	NO		db		0.000
2	FUNCTION2 PFK	28.97	2.863e4					3.5	YES		bd		0.000
3	FUNCTION2 PFK	28.78	1.386e5					4.1	YES		db		0.000
4	FUNCTION2 PFK	28.58	1.798e4					2.3	NO		dd		0.000
5	FUNCTION2 PFK	28.51	6.914e3					1.6	NO		bd		0.000
6	FUNCTION2 PFK	32.89	1.067e4					2.1	NO		bb		0.000
7	FUNCTION2 PFK	32.80	3.258e3					1.1	NO		bb		0.000
8	FUNCTION2 PFK	32.26	7.967e3					1.2	NO		bb		0.000
9	FUNCTION2 PFK	32.15	5.012e3					1.4	NO		bb		0.000
10	FUNCTION2 PFK	32.02	6.502e3					1.2	NO		db		0.000
11	FUNCTION2 PFK	31.98	1.003e4					2.3	NO		bd		0.000
12	FUNCTION2 PFK	31.58	7.120e3					1.6	NO		db		0.000
13	FUNCTION2 PFK	31.48	1.525e4					1.4	NO		bd		0.000
14	FUNCTION2 PFK	31.20	1.958e4					1.7	NO		bb		0.000
15	FUNCTION2 PFK	30.43	2.064e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	30.37	1.131e3					0.7	NO		bb		0.000
17	FUNCTION2 PFK	30.28	4.776e3					1.3	NO		bb		0.000
18	FUNCTION2 PFK	29.97	6.089e3					1.5	NO		db		0.000
19	FUNCTION2 PFK	29.93	5.222e3					1.3	NO		bd		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.08	4.568e6					49.2	YES		bd		0.000
2	FUNCTION3 PFK	36.20	3.466e4					1.1	NO		bd		0.000
3	FUNCTION3 PFK	36.09	9.618e4					2.1	NO		bb		0.000
4	FUNCTION3 PFK	35.96	1.068e5					2.6	NO		db		0.000
5	FUNCTION3 PFK	35.90	1.086e4					0.7	NO		dd		0.000
6	FUNCTION3 PFK	35.83	5.526e4					1.5	NO		bd		0.000
7	FUNCTION3 PFK	35.73	4.978e3					0.5	NO		bb		0.000
8	FUNCTION3 PFK	35.16	2.652e4					1.3	NO		bb		0.000
9	FUNCTION3 PFK	35.07	1.027e5					2.2	NO		bb		0.000
10	FUNCTION3 PFK	34.96	2.676e4					1.0	NO		bb		0.000
11	FUNCTION3 PFK	34.55	3.779e4					1.6	NO		db		0.000
12	FUNCTION3 PFK	34.44	6.556e4					1.2	NO		bd		0.000
13	FUNCTION3 PFK	33.92	5.903e5					8.1	YES		db		0.000
14	FUNCTION3 PFK	33.81	1.886e6					13.3	YES		dd		0.000
15	FUNCTION3 PFK	33.68	6.609e5					20.4	YES		dd		0.000
16	FUNCTION3 PFK	33.62	9.545e5					23.1	YES		dd		0.000
17	FUNCTION3 PFK	33.49	1.261e7					30.0	YES		dd		0.000
18	FUNCTION3 PFK	38.39	3.057e4					1.4	NO		db		0.000
19	FUNCTION3 PFK	38.29	8.770e4					1.9	NO		bd		0.000
20	FUNCTION3 PFK	38.21	2.559e4					1.1	NO		db		0.000
21	FUNCTION3 PFK	38.15	3.949e4					1.1	NO		bd		0.000
22	FUNCTION3 PFK	37.94	9.749e4					1.4	NO		db		0.000
23	FUNCTION3 PFK	37.85	2.906e4					1.3	NO		bd		0.000
24	FUNCTION3 PFK	37.61	3.953e4					1.4	NO		bb		0.000
25	FUNCTION3 PFK	37.37	5.927e4					1.3	NO		bb		0.000
26	FUNCTION3 PFK	36.73	2.802e4					1.1	NO		db		0.000
27	FUNCTION3 PFK	36.69	1.391e4					0.8	NO		bd		0.000
28	FUNCTION3 PFK	36.65	6.031e3					0.5	NO		bb		0.000
29	FUNCTION3 PFK	36.51	1.118e5					2.6	NO		bb		0.000
30	FUNCTION3 PFK	36.31	1.499e4					0.9	NO		db		0.000
31	FUNCTION3 PFK	36.27	3.433e4					1.2	NO		dd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.59	4.826e4					2.0	NO		bb		
2	FUNCTION4 PFK	43.80	9.218e3					1.1	NO		bb		
3	FUNCTION4 PFK	43.62	2.929e4					1.8	NO		bb		
4	FUNCTION4 PFK	43.47	1.426e4					1.2	NO		bb		
5	FUNCTION4 PFK	42.02	4.527e3					0.7	NO		bb		
6	FUNCTION4 PFK	40.99	3.327e4					1.7	NO		bb		
7	FUNCTION4 PFK	40.89	1.549e4					1.7	NO		bb		
8	FUNCTION4 PFK	40.11	1.598e4					1.3	NO		bb		
9	FUNCTION4 PFK	39.88	1.682e4					1.1	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.47	2.428e4					1.5	NO		bb		
2	FUNCTION5 PFK	45.08	7.597e3					1.3	NO		bb		
3	FUNCTION5 PFK	44.92	1.212e4					1.6	NO		db		
4	FUNCTION5 PFK	44.88	1.497e4					1.8	NO		dd		
5	FUNCTION5 PFK	44.85	9.524e3					1.3	NO		bd		
6	FUNCTION5 PFK	44.76	2.429e3					0.6	NO		bb		
7	FUNCTION5 PFK	44.59	1.922e4					1.9	NO		bb		
8	FUNCTION5 PFK	47.16	1.105e4					1.4	NO		db		
9	FUNCTION5 PFK	47.07	1.954e4					1.3	NO		dd		
10	FUNCTION5 PFK	47.04	1.943e4					1.7	NO		bd		
11	FUNCTION5 PFK	46.80	7.235e3					1.1	NO		bb		
12	FUNCTION5 PFK	46.77	3.945e3					0.8	NO		db		
13	FUNCTION5 PFK	46.72	1.136e4					1.4	NO		bd		
14	FUNCTION5 PFK	46.69	6.751e3					0.9	NO		bb		
15	FUNCTION5 PFK	46.56	9.218e3					1.1	NO		bb		
16	FUNCTION5 PFK	46.44	3.006e3					0.6	NO		bb		
17	FUNCTION5 PFK	46.38	6.658e3					1.3	NO		db		
18	FUNCTION5 PFK	46.34	7.409e3					1.1	NO		bd		
19	FUNCTION5 PFK	46.11	7.073e3					1.0	NO		bb		
20	FUNCTION5 PFK	45.99	5.344e3					0.7	NO		db		
21	FUNCTION5 PFK	45.94	9.379e3					1.2	NO		bd		
22	FUNCTION5 PFK	45.61	1.431e4					1.6	NO		bb		
23	FUNCTION5 PFK	45.55	1.149e3					0.4	NO		bb		
24	FUNCTION5 PFK	49.39	1.585e4					1.3	NO		db		
25	FUNCTION5 PFK	49.32	1.056e4					1.3	NO		bd		
26	FUNCTION5 PFK	48.28	1.071e3					0.4	NO		bb		
27	FUNCTION5 PFK	48.25	4.417e3					0.8	NO		bb		
28	FUNCTION5 PFK	48.19	8.500e3					1.3	NO		bb		
29	FUNCTION5 PFK	48.16	7.108e3					1.3	NO		bb		
30	FUNCTION5 PFK	48.11	1.138e4					1.0	NO		bb		
31	FUNCTION5 PFK	47.83	1.277e3					0.5	NO		bb		
32	FUNCTION5 PFK	47.59	3.790e3					0.8	NO		bb		
33	FUNCTION5 PFK	47.56	3.026e3					0.6	NO		bb		
34	FUNCTION5 PFK	47.43	5.433e3					0.9	NO		bb		
35	FUNCTION5 PFK	47.30	1.192e3					0.4	NO		bb		
36	FUNCTION5 PFK	47.27	5.423e3					1.0	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.08	1.425e3					19.0	YES		bb		0.000
2	FUNCTION1 HXCD...	25.81	4.964e2					7.2	YES		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.18	8.729e1					1.7	NO		db		0.000
2	FUNCTION1 HPCD...	28.10	1.250e2					1.7	NO		bd		0.000
3	FUNCTION1 HPCD...	27.68	7.863e1					1.6	NO		bb		0.000
4	FUNCTION1 HPCD...	27.51	1.018e2					1.6	NO		bb		0.000
5	FUNCTION1 HPCD...	26.50	1.015e2					1.9	NO		bb		0.000
6	FUNCTION1 HPCD...	25.91	1.023e2					2.1	NO		bb		0.000
7	FUNCTION1 HPCD...	24.20	1.199e2					2.2	NO		bb		0.000
8	FUNCTION1 HPCD...	22.57	1.036e2					1.5	NO		bb		0.000
9	FUNCTION1 HPCD...	22.34	2.456e2					3.1	YES		bb		0.000
10	FUNCTION1 HPCD...	22.06	1.001e2					2.3	NO		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.39	7.337e1					1.6	NO		bb		0.000
2	FUNCTION2 HPCD...	29.15	8.529e1					2.2	NO		bb		0.000
3	FUNCTION2 HPCD...	28.63	8.094e1					1.4	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.28	7.772e1					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	34.60	9.789e1					3.3	YES		bb		0.000
3	FUNCTION3 OCDPE	33.68	8.965e1					2.5	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	44.32	7.044e1					1.5	NO		bb		0.000
2	FUNCTION4 NCDPE	43.20	7.546e1					1.6	NO		bb		0.000
3	FUNCTION4 NCDPE	39.01	8.897e1					3.7	YES		bb		0.000

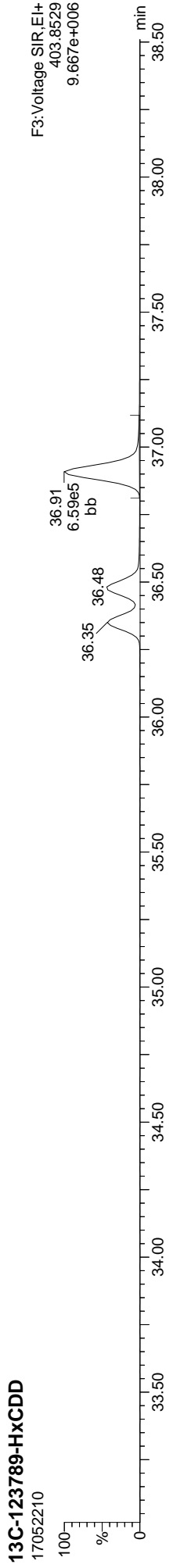
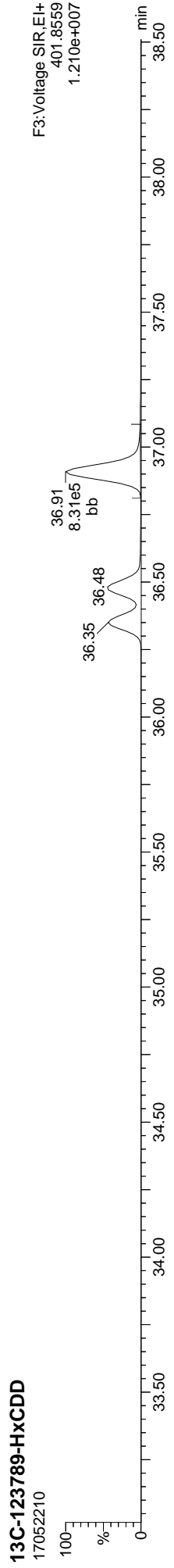
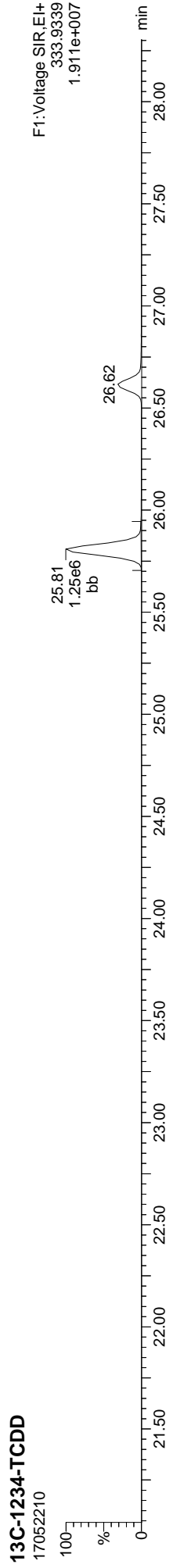
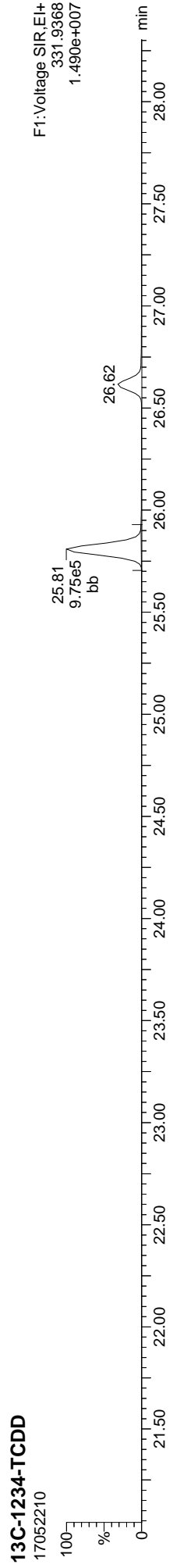
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	48.78	8.831e1					2.7	NO		bb		0.000
2	FUNCTION5 DCDPE	45.12	1.629e2					3.5	YES		bb		0.000

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

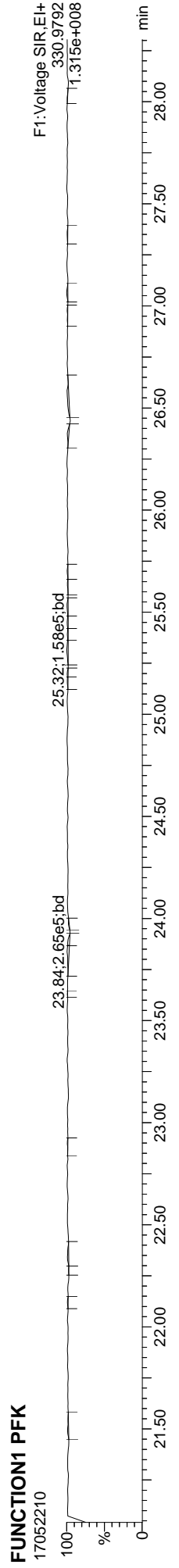
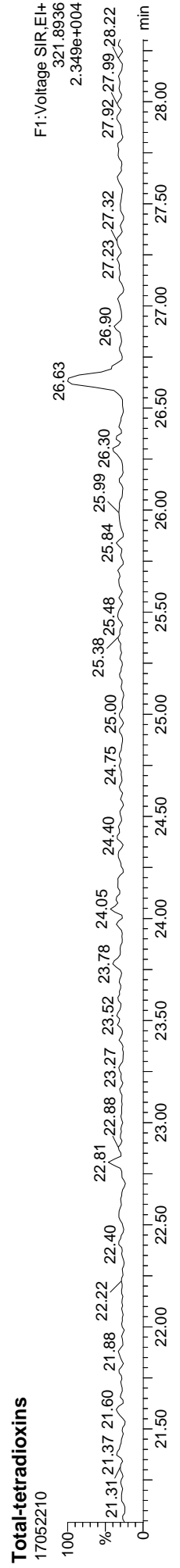
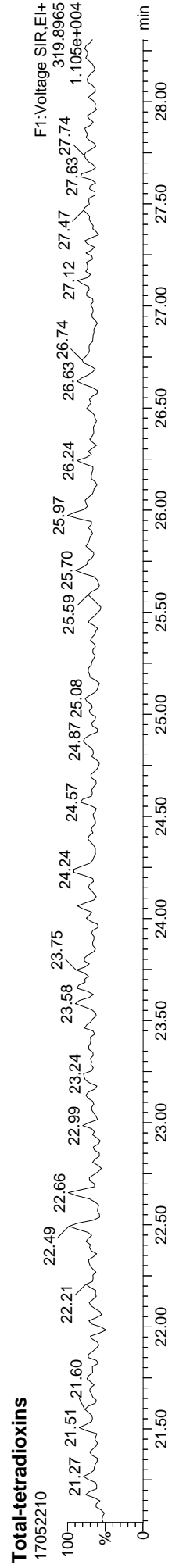
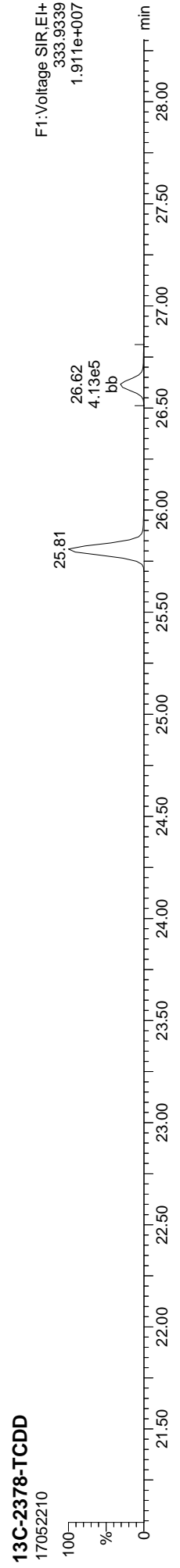
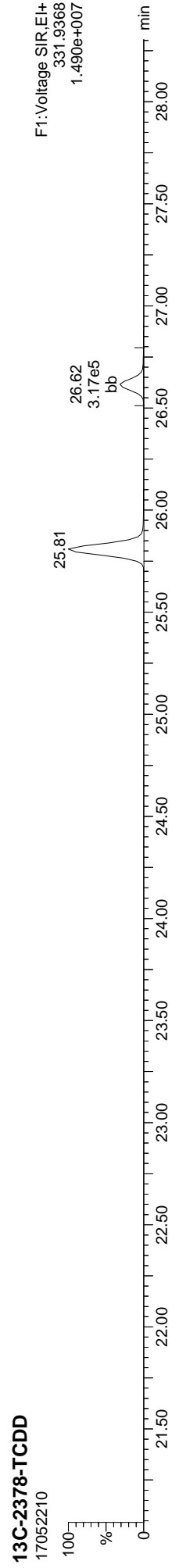
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

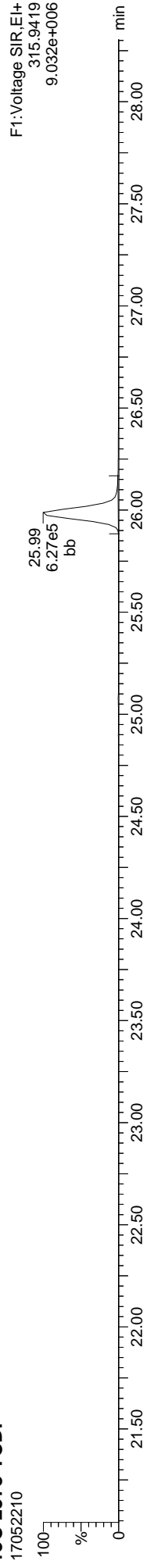
ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK



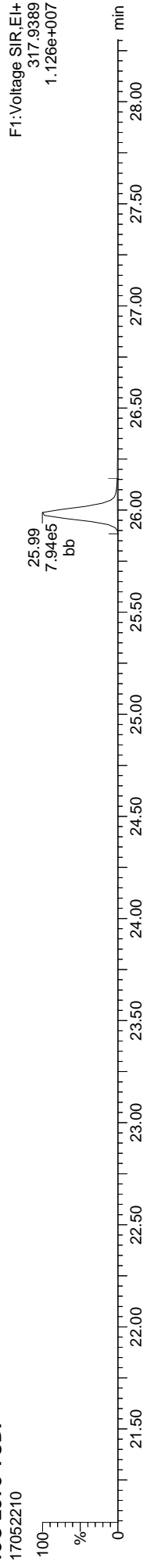
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

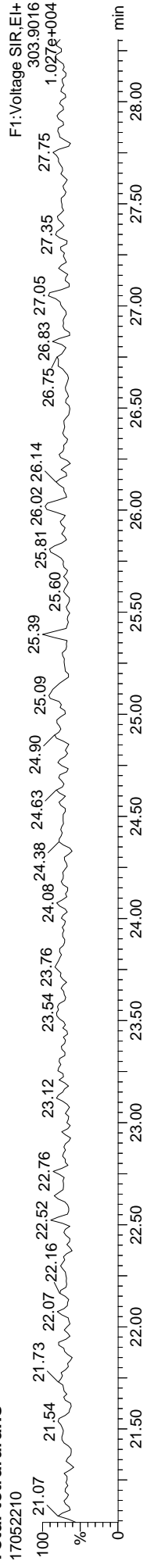
13C-2378-TCDF



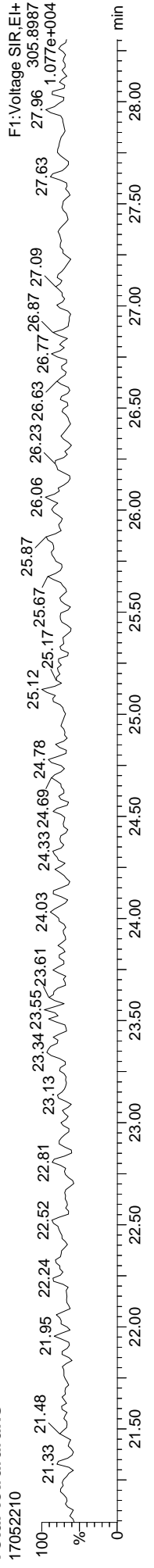
13C-2378-TCDF



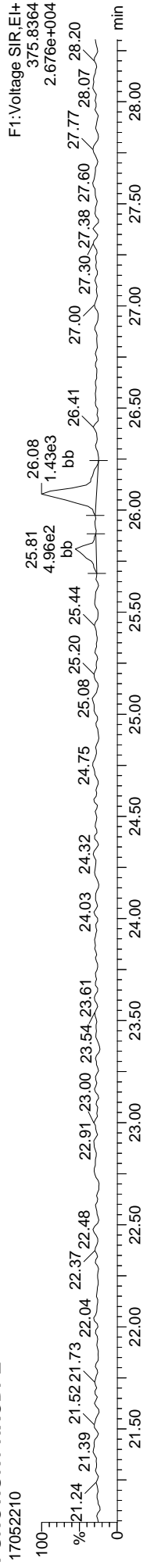
Total-tetrafurans



Total-tetrafurans



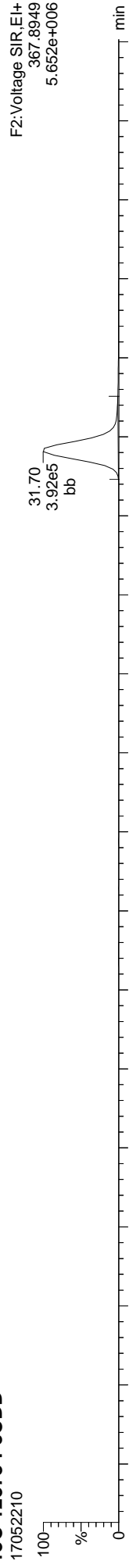
FUNCTION1 HXCDPE



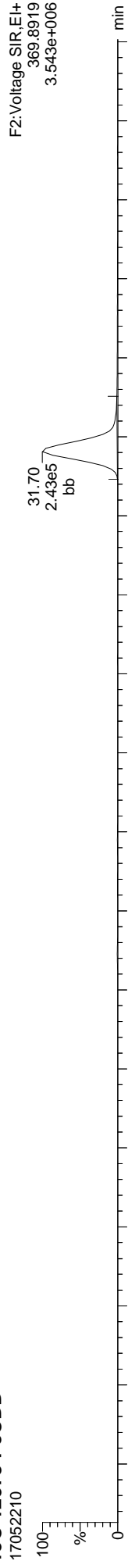
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

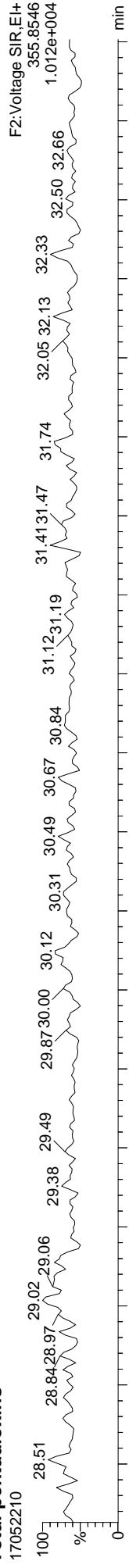
13C-12378-PeCDD



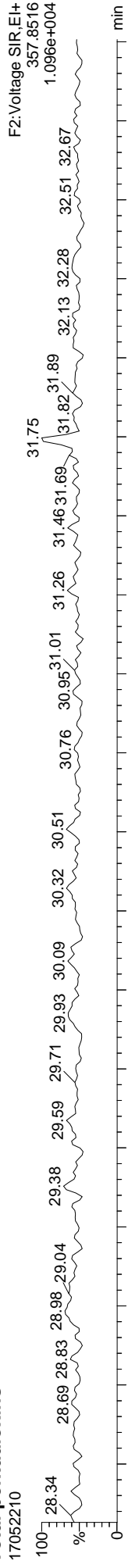
13C-12378-PeCDD



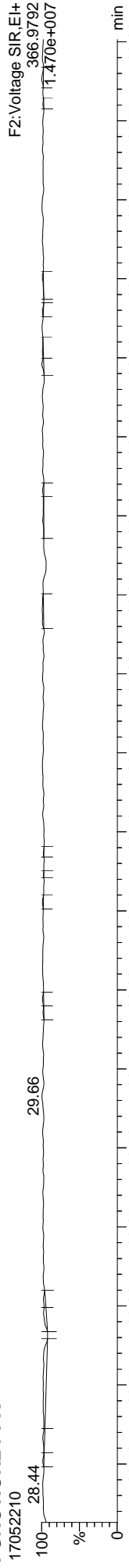
Total-pentadioxins



Total-pentadioxins



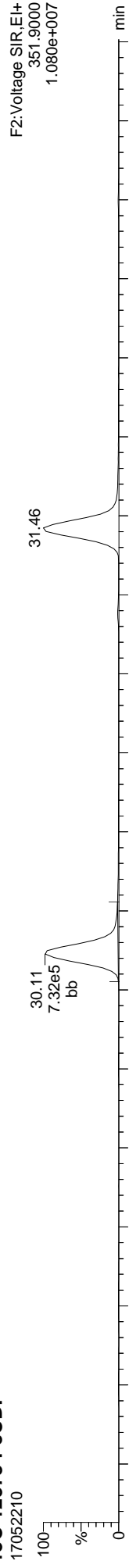
FUNCTION2 PFK



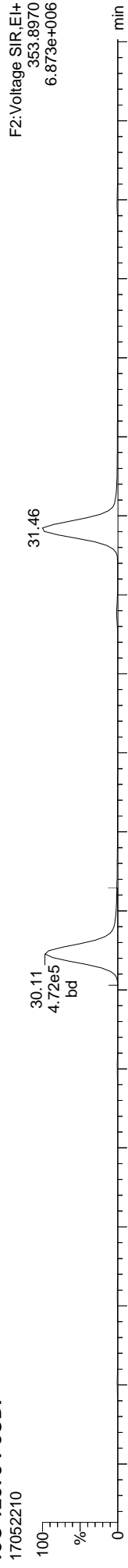
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

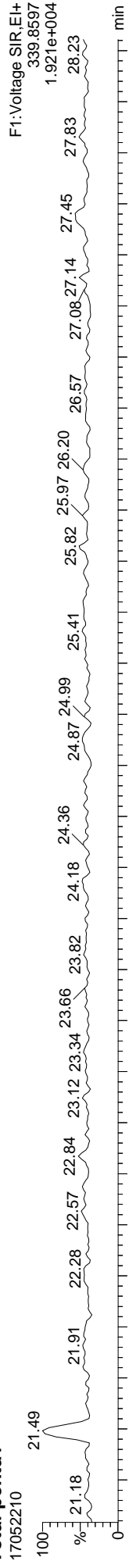
13C-12378-PeCDF



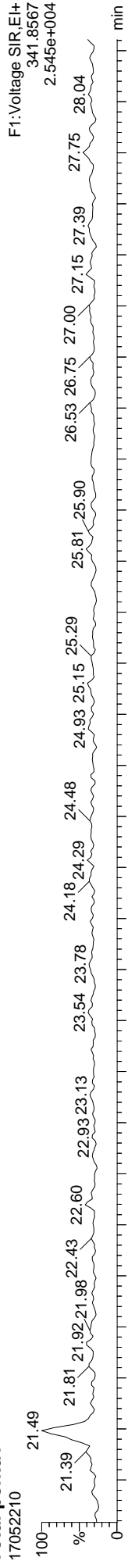
13C-12378-PeCDF



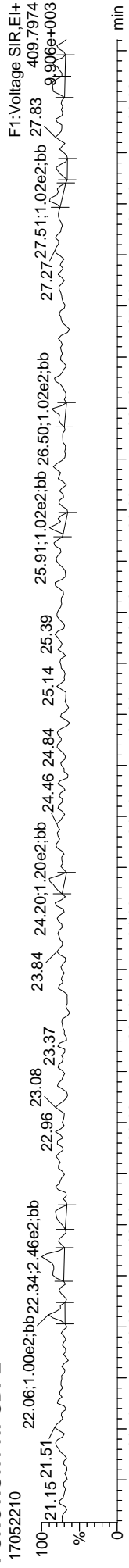
Total-penta1



Total-penta1



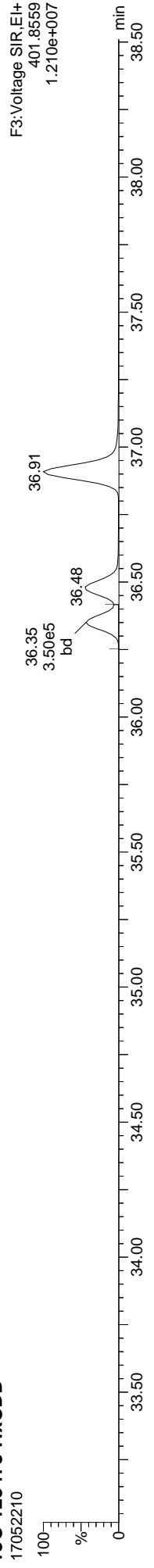
FUNCTION1 HPCDPE



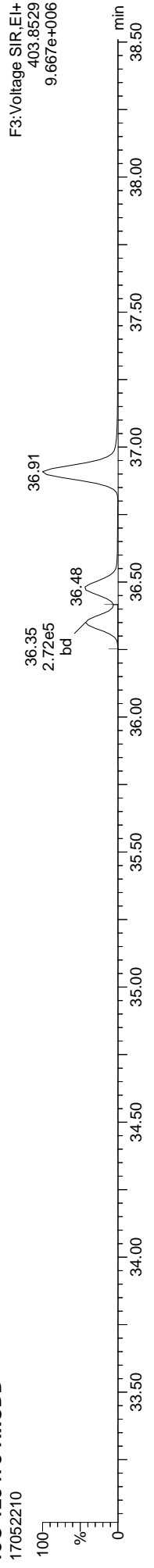
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

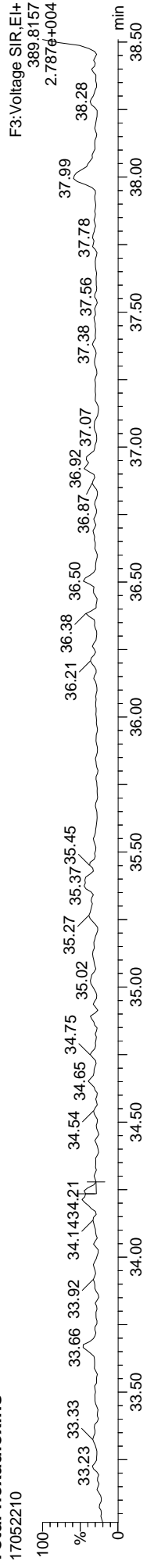
13C-123478-HxCDD



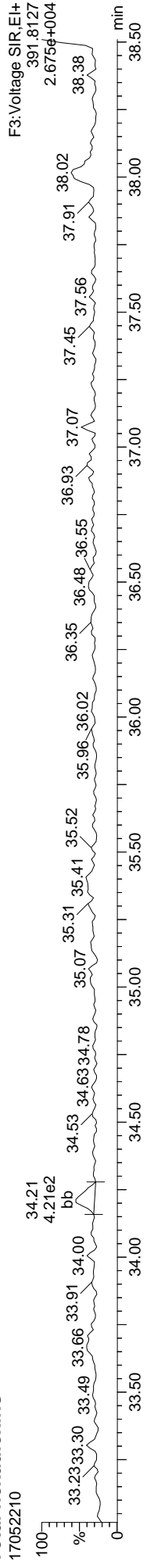
13C-123478-HxCDD



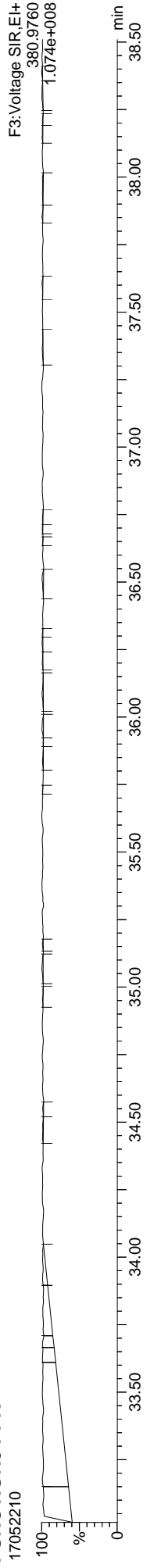
Total-hexadioxins



Total-hexadioxins



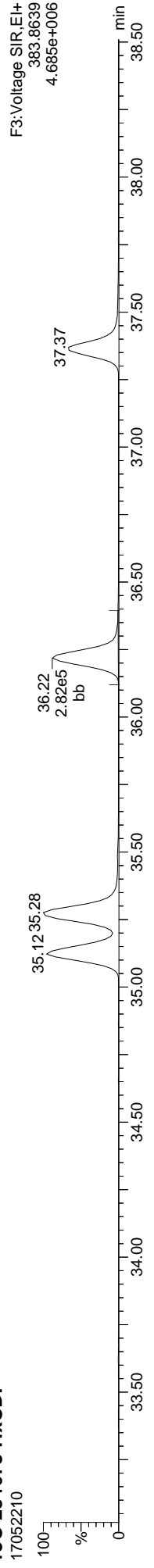
FUNCTION3 PFK



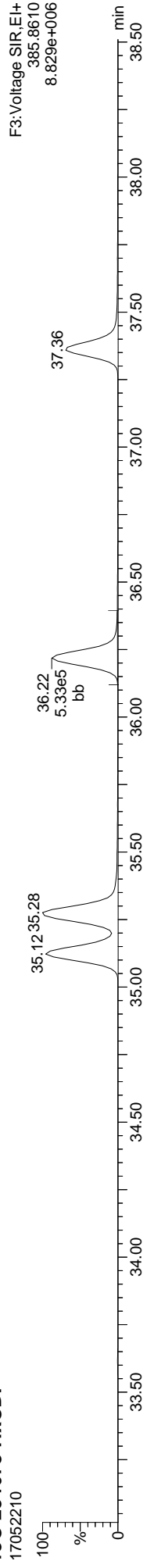
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

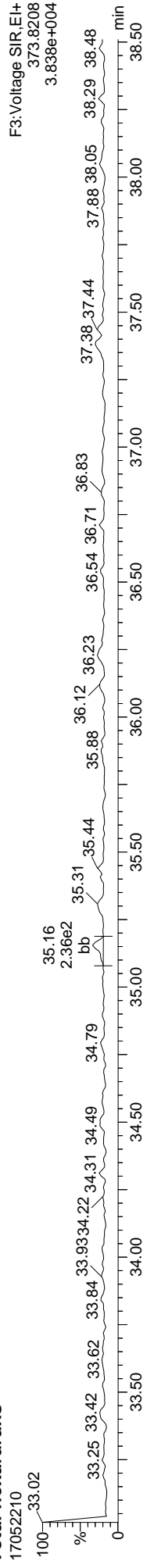
13C-234678-HxCDF



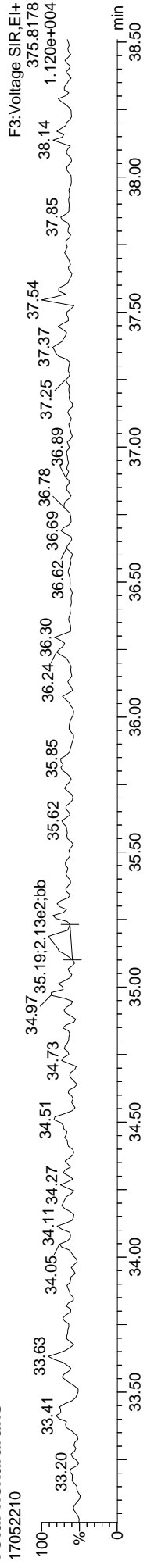
13C-234678-HxCDF



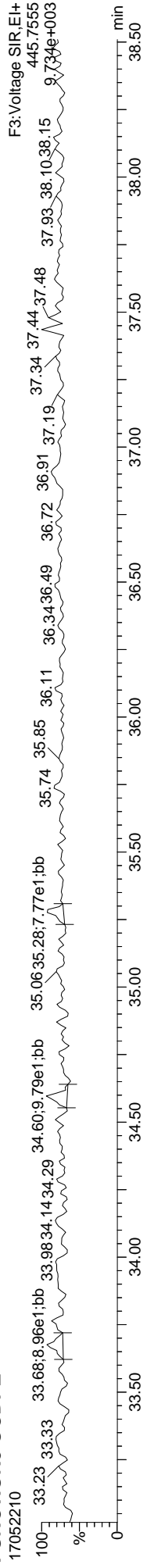
Total-hexafurans



Total-hexafurans



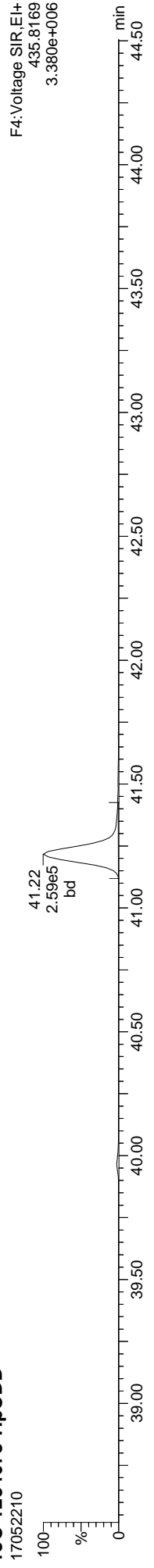
FUNCTION3 OCDPE



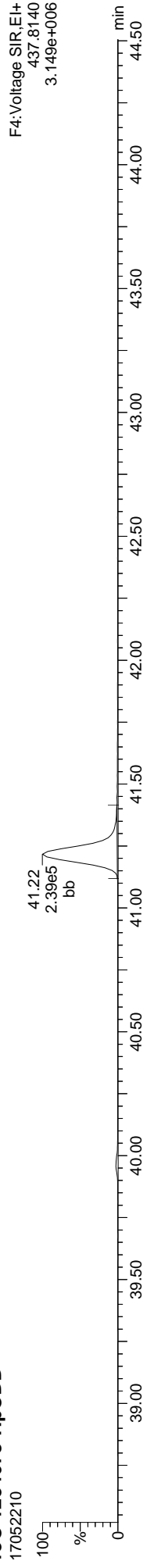
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

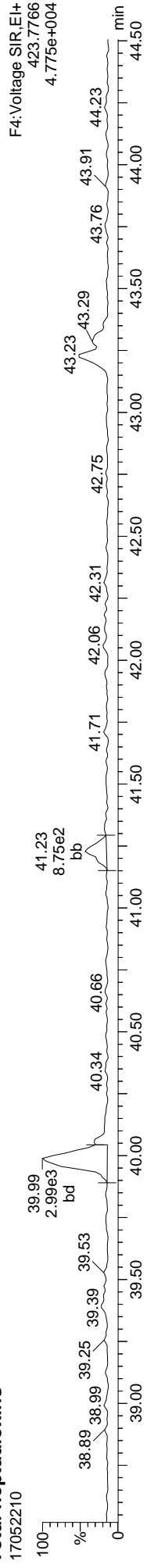
13C-1234678-HpCDD



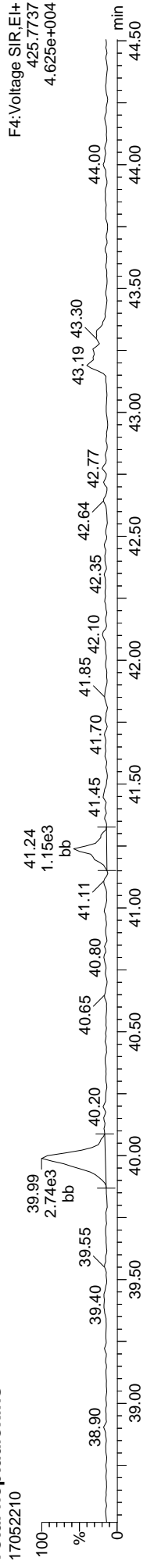
13C-1234678-HpCDD



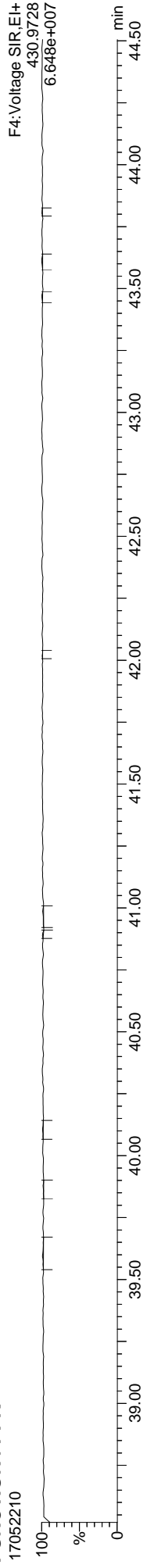
Total-heptadioxins



Total-heptadioxins



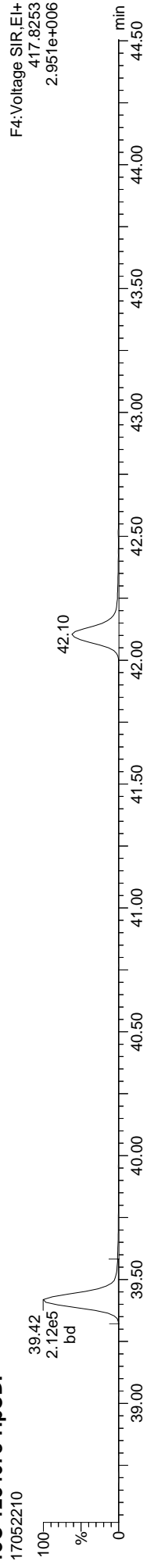
FUNCTION4 PFK



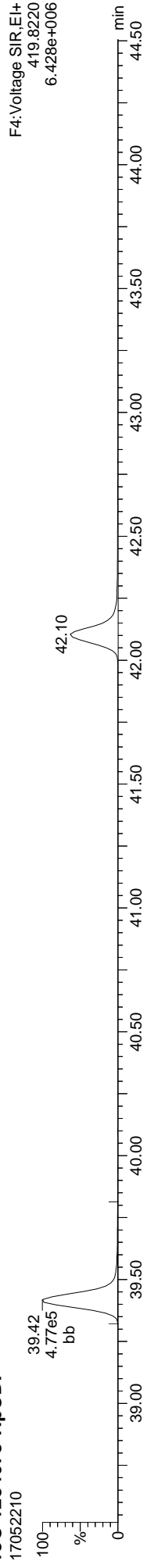
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

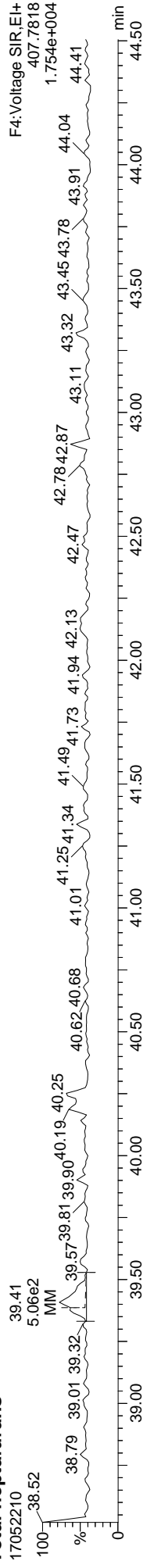
13C-1234678-HpCDF



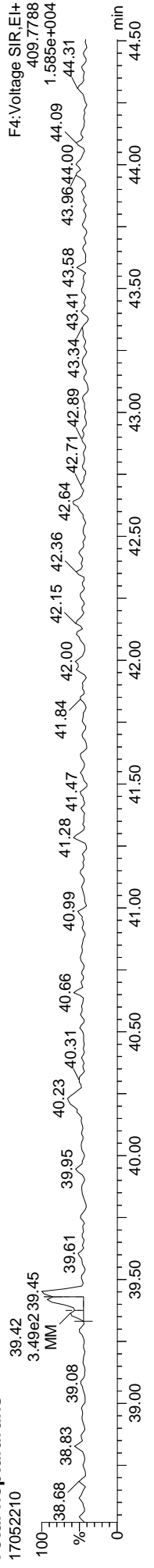
13C-1234678-HpCDF



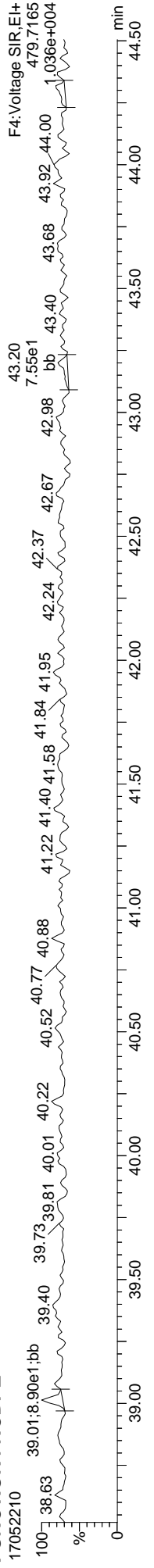
Total-heptafurans



Total-heptafurans



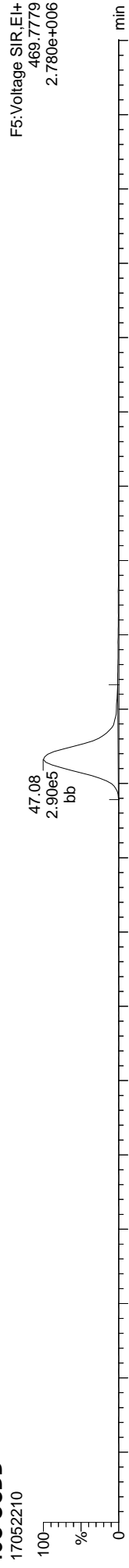
FUNCTION4 NCDPE



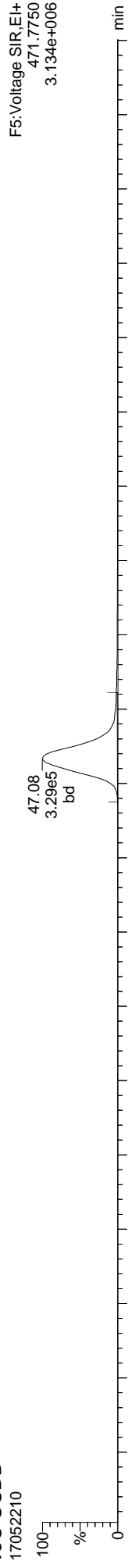
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

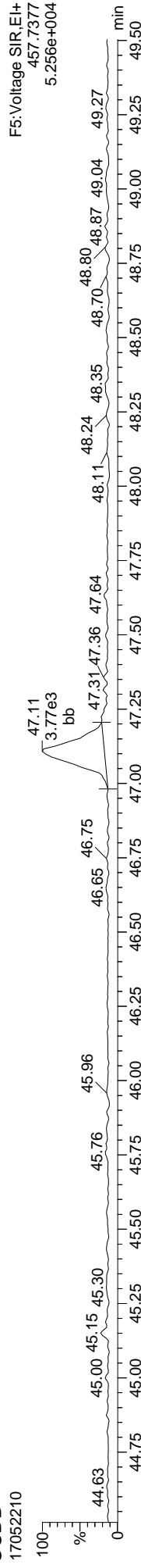
13C-OCDD



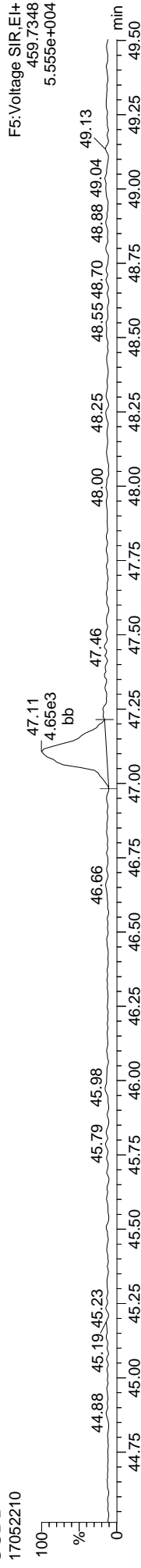
13C-OCDD



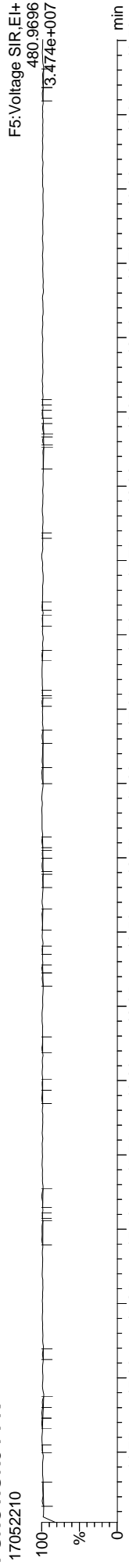
OCDD



OCDD



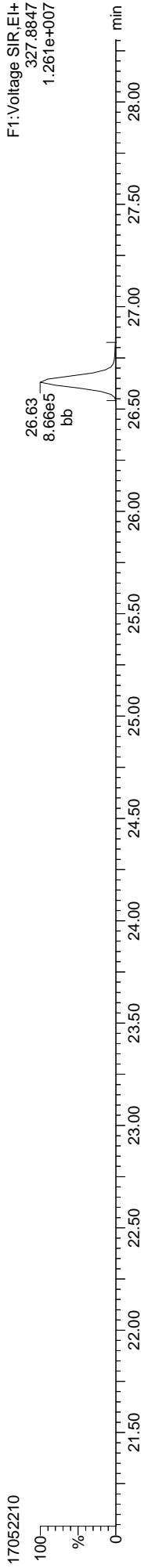
FUNCTION5 PFK



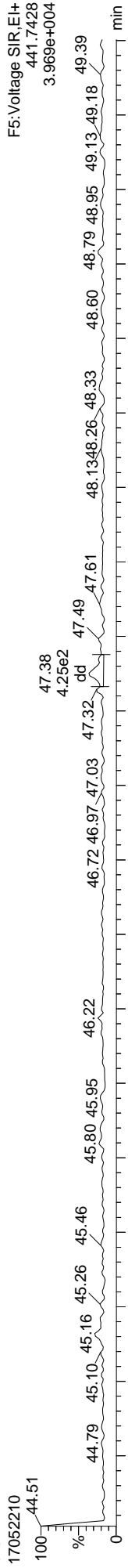
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:18 Pacific Daylight Time

ID: 17D0421-05, Name: 17052210, Date: 22-May-2017, Time: 17:23:42, Conditions: AUTOSPEC01, User: PK

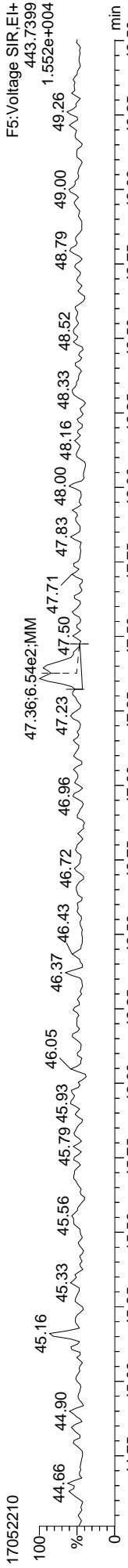
37CL-2378-TCDD



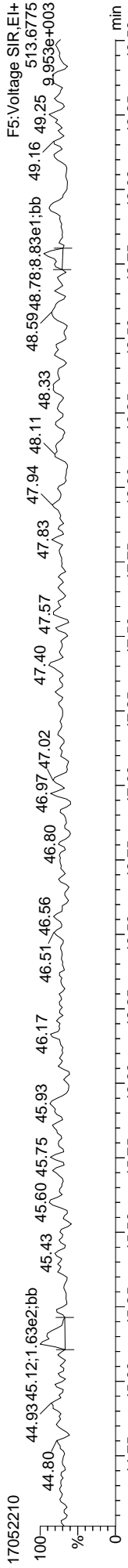
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-06 File ID: 17052211
 Sampled: 04/24/17 12:00 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 18:17
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.04 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.046	0.996	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.059	0.996	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.050	4.98	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.046	4.98	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.067	4.98	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.043	4.98	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.043	4.98	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.047	4.98	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.476	1.054-1.426		4.98	0.077	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.085	4.98	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.094	4.98	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.099	4.98	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.534	0.893-1.208		4.98	0.054	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.075	4.98	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.969	0.893-1.208		4.98	0.269	ng/kg	J, B
39001-02-0	OCDF	1	0.000	0.757-1.024	0.153	9.96	ND	ng/kg	U
3268-87-9	OCDD	1	0.860	0.757-1.024		9.96	1.83	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.996	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.996	0.070	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.996	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.996	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.996	0.116	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.996	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.996	0.054	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.996	0.847	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.011
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.011



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-06</u>
Sampled:	<u>04/24/17 12:00</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052211</u>
		Analyzed:	<u>05/22/17 18:17</u>
		Initial/Final:	<u>10.04 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.798	0.655-0.886		53.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.771	0.655-0.886		53.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.565	1.318-1.783		45.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.582	1.318-1.783		48.1	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.636	1.318-1.783		48.7	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.523	0.434-0.587		51.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.528	0.434-0.587		50.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.522	0.434-0.587		50.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.536	0.434-0.587		45.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.291	1.054-1.426		56.5	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.323	1.054-1.426		53.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.447	0.374-0.506		48.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.444	0.374-0.506		47.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.053	0.893-1.208		52.0	23 - 140 %	
13C12-OCDD		0.926	0.757-1.024		39.8	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			91.6	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDBIDioxin170518.mdb **18 May 2017 15:01:42**
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb **19 May 2017 13:57:26**

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF					1.018		0.770	1006	1413									
12378-PeCDF					0.977		1.550	678	1438									
23478-PeCDF					1.019		1.550	678	1438									
123478-HxCDF					1.150		1.240	866	778									
234678-HxCDF					1.188		1.240	866	778									
123678-HxCDF					1.100		1.240	866	778									
123789-HxCDF	37.358	1.000	2.338e2	1.585e2	1.116	1.476	1.240	866	778	6.41e3	2.77e3	7.4	YES	YES	bd	bb	0.039	
1234678-HpCDF	39.418	1.000	1.218e2	2.281e2	1.238	0.534	1.050	620	699	3.17e3	5.49e3	5.1	YES	YES	bb	bb	0.027	
1234789-HpCDF					1.257		1.050	620	699									
OCDF					1.321		0.890	504	938									
2378-TCDD					1.244		0.770	1088	853									
12378-PeCDD					1.058		1.550	999	668									
123478-HxCDD					1.119		1.240	1269	1063									
123678-HxCDD					1.040		1.240	1269	1063									
123789-HxCDD					0.981		1.240	1269	1063									
1234678-HpCDD	41.216	1.000	5.542e2	5.720e2	1.132	0.969	1.050	915	1140	7.46e3	9.05e3	8.2	YES	NO	bb	bb	0.135	
OCDD	47.079	1.000	2.136e3	2.485e3	1.117	0.860	0.890	548	744	2.52e4	2.60e4	45.9	YES	NO	bd	MM	0.918	
13C-2378-TCDF	25.973	1.007	9.424e5	1.181e6	1.685	0.798	0.770	7204	4250	1.36e7	1.72e7	1888.3	YES	NO	bb	bb	53.374	
13C-12378-PeCDF	30.102	1.167	1.107e6	7.074e5	1.706	1.565	1.550	3416	5049	1.58e7	1.01e7	4636.9	YES	NO	bb	bb	45.041	
13C-23478-PeCDF	31.450	1.219	1.135e6	7.176e5	1.632	1.582	1.550	3416	5049	1.66e7	1.05e7	4859.8	YES	NO	bb	bb	48.080	
13C-123478-HxCDF	35.111	0.952	4.534e5	8.672e5	1.682	0.523	0.510	2954	3366	6.74e6	1.28e7	2282.9	YES	NO	bd	bd	51.182	
13C-123678-HxCDF	35.264	0.956	5.228e5	9.893e5	1.945	0.528	0.510	2954	3366	7.21e6	1.34e7	2439.8	YES	NO	dd	dd	50.673	
13C-234678-HxCDF	36.207	0.981	4.214e5	8.074e5	1.582	0.522	0.510	2954	3366	6.04e6	1.17e7	2046.0	YES	NO	bb	bb	50.633	
13C-123789-HxCDF	37.347	1.012	3.168e5	5.914e5	1.291	0.536	0.510	2954	3366	4.46e6	8.36e6	1510.7	YES	NO	bb	bb	45.873	
13C-1234678-HpCDF	39.407	1.068	3.243e5	7.256e5	1.427	0.447	0.440	2023	2330	4.52e6	1.01e7	2235.4	YES	NO	bd	bd	47.982	
13C-1234789-HpCDF	42.093	1.141	2.161e5	4.867e5	0.957	0.444	0.440	2023	2330	2.58e6	5.72e6	1276.9	YES	NO	bb	bd	47.885	
13C-1234-TCDD	25.794	0.000	1.036e6	1.326e6	1.000	0.781	0.770	2825	1841	1.55e7	1.99e7	5474.7	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.601	1.031	4.766e5	6.186e5	0.873	0.771	0.770	2825	1841	6.82e6	8.87e6	2415.8	YES	NO	bb	bb	53.138	
13C-12378-PeCDD	31.691	1.229	6.142e5	3.754e5	0.860	1.636	1.550	1715	1749	8.69e6	5.33e6	5066.6	YES	NO	bb	bd	48.723	
13C-123478-HxCDD	36.338	0.985	5.440e5	4.213e5	1.114	1.291	1.240	1805	1926	8.23e6	6.38e6	4556.5	YES	NO	bd	bd	56.511	
13C-123678-HxCDD	36.470	0.988	5.873e5	4.440e5	1.258	1.323	1.240	1805	1926	8.10e6	6.30e6	4484.4	YES	NO	db	db	53.426	
13C-1234678-HpCDD	41.205	1.117	3.777e5	3.588e5	0.924	1.053	1.050	2191	1545	4.88e6	4.60e6	2226.7	YES	NO	bb	bb	51.985	
13C-OCDD	47.070	1.276	4.332e5	4.680e5	0.738	0.926	0.890	1664	2184	4.10e6	4.52e6	2467.3	YES	NO	bd	bb	79.574	
13C-123789-HxCDD	36.897	0.000	8.596e5	6.743e5	1.000	1.275	1.240	1805	1926	1.23e7	9.67e6	6817.5	YES	NO	bb	bb	100.000	
Total-tetrafurans			0.000e0	0.000e0	1.018			1006		0.00e0								

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					785		0.00e0								
Total-pentafurans			0.000e0		0.998			678		0.00e0								0.058
Total-hexafurans			4.206e2		1.138			866		9.91e3								0.027
Total-heptafurans			1.218e2		1.248			620		3.17e3								0.085
Total-Furans			5.424e2		1.138			1006		1.31e4								0.035
Total-tetradioxins			2.730e2		1.244			1088		3.88e3								
Total-pentadioxins			0.000e0		1.058			999		0.00e0								
Total-hexadioxins			0.000e0		1.047			1269		0.00e0								
Total-heptadioxins			1.704e3		1.132			915		2.49e4								0.425
Total-Dioxins			4.113e3		1.099			1088		5.40e4								1.378
Total-TEQ			4.655e3					1088		6.71e4								1.463
37CL-2378-TCDD	26.616	1.032	8.834e5		1.021			1825		1.23e7		6759.4	YES		bb			36.630
FUNCTION1 PFK			2.465e6					1066444		4.00e7								
FUNCTION2 PFK			1.164e5					219653		1.93e6								0.000
FUNCTION3 PFK			2.821e6					801092		6.18e7								0.000
FUNCTION4 PFK			1.281e6					589615		2.81e7								
FUNCTION5 PFK			6.921e4					344170		2.91e6								
FUNCTION1 HXCD...			1.496e3					510		2.89e4								0.000
FUNCTION1 HPCD...			4.593e2					732		6.33e3								0.000
FUNCTION2 HPCD...			1.558e2					681		4.19e3								0.000
FUNCTION3 OCDPE			7.602e1					670		2.12e3								0.000
FUNCTION4 NCDPE			3.443e2					718		7.76e3								0.000
FUNCTION5 DCDPE			0.000e0					499		0.00e0								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.36	2.338e2	1.585e2	1.116	1.48	1.24	7.4	YES	YES	bd	bb	0.039
2	Total-hexafurans	34.50	1.868e2	8.896e1	1.138	2.10	1.24	4.0	YES	YES	db	bb	0.019

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.42	1.218e2	2.281e2	1.238	0.53	1.05	5.1	YES	YES	bb	bb	0.027

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.36	2.338e2	1.585e2	1.116	1.48	1.24	7.4	YES	YES	bd	bb	0.039
2	Total-hexafurans	34.50	1.868e2	8.896e1	1.138	2.10	1.24	4.0	YES	YES	db	bb	0.019
3	1234678-HpCDF	39.42	1.218e2	2.281e2	1.238	0.53	1.05	5.1	YES	YES	bb	bb	0.027

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	23.78	2.730e2	2.044e2	1.244	1.34	0.77	3.6	YES	YES	bd	bb	0.035

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.22	5.542e2	5.720e2	1.132	0.97	1.05	8.2	YES	NO	bb	bb	0.135
2	Total-heptadoxins	39.98	1.150e3	1.267e3	1.132	0.91	1.05	19.1	YES	NO	bb	bb	0.290

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	23.78	2.730e2	2.044e2	1.244	1.34	0.77	3.6	YES	YES	bd	bb	0.035
2	OCDD	47.08	2.136e3	2.485e3	1.117	0.86	0.89	45.9	YES	NO	bd	MM	0.918
3	1234678-HpCDD	41.22	5.542e2	5.720e2	1.132	0.97	1.05	8.2	YES	NO	bb	bb	0.135
4	Total-heptadoxins	39.98	1.150e3	1.267e3	1.132	0.91	1.05	19.1	YES	NO	bb	bb	0.290

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.36	2.338e2	1.585e2	1.116	1.48	1.24	7.4	YES	YES	bd	bb	0.039
2	Total-hexafurans	34.50	1.868e2	8.896e1	1.138	2.10	1.24	4.0	YES	YES	db	bb	0.019
3	1234678-HpCDF	39.42	1.218e2	2.281e2	1.238	0.53	1.05	5.1	YES	YES	bb	bb	0.027
4	Total-tetradoxins	23.78	2.730e2	2.044e2	1.244	1.34	0.77	3.6	YES	YES	bd	bb	0.035
5	OCDD	47.08	2.136e3	2.485e3	1.117	0.86	0.89	45.9	YES	NO	bd	MM	0.918
6	1234678-HpCDD	41.22	5.542e2	5.720e2	1.132	0.97	1.05	8.2	YES	NO	bb	bb	0.135
7	Total-heptadoxins	39.98	1.150e3	1.267e3	1.132	0.91	1.05	19.1	YES	NO	bb	bb	0.290

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.63	8.987e4					1.4	NO		bb		
2	FUNCTION1 PFK	21.45	1.546e4					0.5	NO		bb		
3	FUNCTION1 PFK	21.21	1.235e4					0.5	NO		bb		
4	FUNCTION1 PFK	25.38	1.887e5					1.5	NO		bb		
5	FUNCTION1 PFK	25.26	3.490e4					1.2	NO		bb		
6	FUNCTION1 PFK	25.20	7.087e3					0.4	NO		bb		
7	FUNCTION1 PFK	24.69	4.934e3					0.3	NO		bb		
8	FUNCTION1 PFK	24.11	1.338e4					0.5	NO		bb		
9	FUNCTION1 PFK	23.81	2.353e5					2.2	NO		db		
10	FUNCTION1 PFK	23.72	4.374e4					1.0	NO		dd		
11	FUNCTION1 PFK	23.66	6.344e4					0.9	NO		bd		
12	FUNCTION1 PFK	23.31	8.989e4					1.3	NO		db		
13	FUNCTION1 PFK	23.25	1.683e4					0.7	NO		bd		
14	FUNCTION1 PFK	23.19	9.491e4					1.9	NO		bb		
15	FUNCTION1 PFK	22.90	1.410e4					0.6	NO		bb		
16	FUNCTION1 PFK	22.28	1.005e5					1.2	NO		bb		
17	FUNCTION1 PFK	22.03	5.296e4					1.2	NO		db		
18	FUNCTION1 PFK	22.00	5.754e4					1.3	NO		bd		
19	FUNCTION1 PFK	21.85	6.145e4					1.0	NO		bb		
20	FUNCTION1 PFK	28.15	2.195e5					1.7	NO		bb		
21	FUNCTION1 PFK	27.96	1.151e5					2.1	NO		db		
22	FUNCTION1 PFK	27.90	9.255e4					2.0	NO		bd		
23	FUNCTION1 PFK	27.60	2.660e5					1.6	NO		bb		
24	FUNCTION1 PFK	27.12	6.990e4					1.5	NO		bb		
25	FUNCTION1 PFK	27.00	7.297e4					1.2	NO		bb		
26	FUNCTION1 PFK	26.85	4.980e4					0.7	NO		bb		
27	FUNCTION1 PFK	26.48	2.723e4					0.7	NO		bb		
28	FUNCTION1 PFK	26.38	6.963e4					1.7	NO		db		
29	FUNCTION1 PFK	26.30	1.549e5					1.8	NO		dd		
30	FUNCTION1 PFK	26.24	5.844e4					1.3	NO		bd		
31	FUNCTION1 PFK	26.05	7.124e4					1.2	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.20	3.878e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	29.15	1.203e3					0.5	NO		bb		0.000
3	FUNCTION2 PFK	28.82	8.697e4					3.2	YES		bb		0.000
4	FUNCTION2 PFK	31.81	1.100e4					1.7	NO		bb		0.000
5	FUNCTION2 PFK	31.42	6.685e3					1.0	NO		bb		0.000
6	FUNCTION2 PFK	30.85	1.171e3					0.5	NO		bb		0.000
7	FUNCTION2 PFK	30.36	5.504e3					1.0	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.20	4.236e4					1.7	NO		dd		0.000
2	FUNCTION3 PFK	34.15	6.095e4					1.3	NO		bd		0.000
3	FUNCTION3 PFK	34.05	5.127e4					1.7	NO		bb		0.000
4	FUNCTION3 PFK	33.81	1.090e4					0.6	NO		bb		0.000
5	FUNCTION3 PFK	33.66	1.603e4					1.3	NO		bb		0.000
6	FUNCTION3 PFK	33.57	8.251e4					2.0	NO		db		0.000
7	FUNCTION3 PFK	33.49	7.644e4					2.1	NO		dd		0.000
8	FUNCTION3 PFK	33.37	1.440e5					2.7	NO		dd		0.000
9	FUNCTION3 PFK	33.27	1.552e5					2.1	NO		dd		0.000
10	FUNCTION3 PFK	33.15	9.693e4					2.6	NO		dd		0.000
11	FUNCTION3 PFK	33.12	4.413e4					2.1	NO		bd		0.000
12	FUNCTION3 PFK	36.02	3.289e4					1.7	NO		bb		0.000
13	FUNCTION3 PFK	35.80	1.171e4					0.7	NO		bb		0.000
14	FUNCTION3 PFK	35.69	5.765e4					2.2	NO		bb		0.000
15	FUNCTION3 PFK	35.36	8.466e4					2.3	NO		db		0.000
16	FUNCTION3 PFK	35.29	9.134e4					1.5	NO		bd		0.000
17	FUNCTION3 PFK	35.14	7.958e4					2.5	NO		db		0.000
18	FUNCTION3 PFK	35.09	1.788e4					0.8	NO		bd		0.000
19	FUNCTION3 PFK	35.03	1.030e5					2.9	NO		bb		0.000
20	FUNCTION3 PFK	34.78	4.275e4					1.3	NO		bb		0.000
21	FUNCTION3 PFK	34.62	1.371e4					0.9	NO		db		0.000
22	FUNCTION3 PFK	34.58	3.885e4					1.7	NO		dd		0.000
23	FUNCTION3 PFK	34.55	2.044e4					1.1	NO		bd		0.000
24	FUNCTION3 PFK	34.47	3.145e4					1.5	NO		db		0.000
25	FUNCTION3 PFK	34.39	1.271e5					2.0	NO		dd		0.000
26	FUNCTION3 PFK	34.31	5.448e4					1.9	NO		dd		0.000
27	FUNCTION3 PFK	34.27	8.139e4					2.1	NO		dd		0.000
28	FUNCTION3 PFK	37.88	5.650e4					1.8	NO		bb		0.000
29	FUNCTION3 PFK	37.83	2.009e4					1.0	NO		bb		0.000
30	FUNCTION3 PFK	37.77	4.664e3					0.5	NO		bb		0.000
31	FUNCTION3 PFK	37.68	2.774e4					1.0	NO		bb		0.000
32	FUNCTION3 PFK	37.56	8.759e4					2.2	NO		db		0.000
33	FUNCTION3 PFK	37.46	7.738e4					2.2	NO		dd		0.000
34	FUNCTION3 PFK	37.31	6.029e4					1.2	NO		bd		0.000
35	FUNCTION3 PFK	37.24	9.902e4					1.9	NO		db		0.000
36	FUNCTION3 PFK	37.17	1.136e4					0.9	NO		bd		0.000
37	FUNCTION3 PFK	37.11	1.074e5					2.3	NO		db		0.000
38	FUNCTION3 PFK	36.96	9.277e4					1.6	NO		bd		0.000
39	FUNCTION3 PFK	36.78	2.249e4					1.0	NO		bb		0.000
40	FUNCTION3 PFK	36.58	2.786e4					1.1	NO		bb		0.000
41	FUNCTION3 PFK	36.24	6.288e4					1.9	NO		db		0.000
42	FUNCTION3 PFK	36.20	3.039e4					1.3	NO		bd		0.000
43	FUNCTION3 PFK	36.13	6.898e4					2.1	NO		bb		0.000
44	FUNCTION3 PFK	38.20	6.470e4					1.6	NO		bb		0.000
45	FUNCTION3 PFK	38.09	1.132e5					2.1	NO		db		0.000
46	FUNCTION3 PFK	37.98	1.161e5					2.4	NO		bd		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.93	1.020e4					0.8	NO		bb		
2	FUNCTION4 PFK	39.85	2.539e4					1.2	NO		bb		
3	FUNCTION4 PFK	39.68	6.055e3					0.5	NO		bb		
4	FUNCTION4 PFK	39.62	6.186e4					1.7	NO		bb		
5	FUNCTION4 PFK	39.51	4.949e4					1.7	NO		db		
6	FUNCTION4 PFK	39.41	5.855e4					2.3	NO		bd		
7	FUNCTION4 PFK	39.22	1.146e4					0.8	NO		db		
8	FUNCTION4 PFK	39.16	8.882e3					0.7	NO		dd		
9	FUNCTION4 PFK	39.11	2.265e4					1.0	NO		bd		
10	FUNCTION4 PFK	38.78	1.040e5					1.4	NO		db		
11	FUNCTION4 PFK	38.63	1.697e5					4.7	YES		dd		
12	FUNCTION4 PFK	38.57	2.284e5					5.5	YES		bd		
13	FUNCTION4 PFK	42.83	3.671e4					1.4	NO		bb		
14	FUNCTION4 PFK	42.61	5.039e4					1.8	NO		bb		
15	FUNCTION4 PFK	42.50	3.293e4					1.3	NO		bb		
16	FUNCTION4 PFK	42.33	1.050e4					0.8	NO		bb		
17	FUNCTION4 PFK	42.25	2.557e3					0.4	NO		bb		
18	FUNCTION4 PFK	41.83	7.233e3					0.6	NO		bb		
19	FUNCTION4 PFK	41.35	9.659e3					0.7	NO		bb		
20	FUNCTION4 PFK	41.05	3.474e4					1.4	NO		bb		
21	FUNCTION4 PFK	40.95	2.384e4					1.3	NO		db		
22	FUNCTION4 PFK	40.89	2.493e4					1.1	NO		bd		
23	FUNCTION4 PFK	40.84	5.349e4					1.5	NO		bb		
24	FUNCTION4 PFK	40.65	1.162e4					0.8	NO		db		
25	FUNCTION4 PFK	40.60	1.813e4					0.8	NO		bd		
26	FUNCTION4 PFK	40.47	3.850e4					1.5	NO		bb		
27	FUNCTION4 PFK	40.06	2.088e4					1.0	NO		bb		
28	FUNCTION4 PFK	39.98	2.981e3					0.5	NO		bb		
29	FUNCTION4 PFK	44.31	5.531e3					0.6	NO		bb		
30	FUNCTION4 PFK	44.15	3.221e4					1.4	NO		bb		
31	FUNCTION4 PFK	43.87	2.091e3					0.3	NO		bb		
32	FUNCTION4 PFK	43.84	3.547e3					0.5	NO		bb		
33	FUNCTION4 PFK	43.79	2.762e4					1.2	NO		bb		
34	FUNCTION4 PFK	43.59	3.271e4					1.4	NO		bb		
35	FUNCTION4 PFK	43.53	6.057e3					0.5	NO		bb		
36	FUNCTION4 PFK	43.12	7.224e3					0.7	NO		bb		
37	FUNCTION4 PFK	43.05	1.979e4					1.2	NO		bb		
38	FUNCTION4 PFK	42.94	8.127e3					0.5	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.26	9.004e3					1.5	NO		bb		
2	FUNCTION5 PFK	46.13	1.754e3					0.6	NO		bb		
3	FUNCTION5 PFK	45.82	7.847e3					1.2	NO		bb		
4	FUNCTION5 PFK	45.67	2.793e3					0.6	NO		bb		
5	FUNCTION5 PFK	45.30	1.645e4					1.6	NO		bb		
6	FUNCTION5 PFK	48.80	7.676e3					1.1	NO		bb		
7	FUNCTION5 PFK	46.83	2.368e4					1.9	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.09	3.315e2					15.3	YES		db		0.000
2	FUNCTION1 HXCD...	26.05	6.077e2					21.7	YES		bd		0.000
3	FUNCTION1 HXCD...	25.79	2.305e2					8.8	YES		bb		0.000
4	FUNCTION1 HXCD...	25.14	1.004e2					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	24.55	1.532e2					4.5	YES		bb		0.000
6	FUNCTION1 HXCD...	24.24	7.305e1					4.5	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.51	8.469e1					2.2	NO		bb		0.000
2	FUNCTION1 HPCD...	25.02	7.621e1					1.6	NO		bb		0.000
3	FUNCTION1 HPCD...	22.31	2.984e2					4.8	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.83	8.385e1					3.5	YES		bb		0.000
2	FUNCTION2 HPCD...	29.18	7.199e1					2.6	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	38.16	7.602e1					3.2	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.05	2.370e2					6.4	YES		db		0.000
2	FUNCTION4 NCDPE	38.99	1.073e2					4.4	YES		bd		0.000

ETHERS6

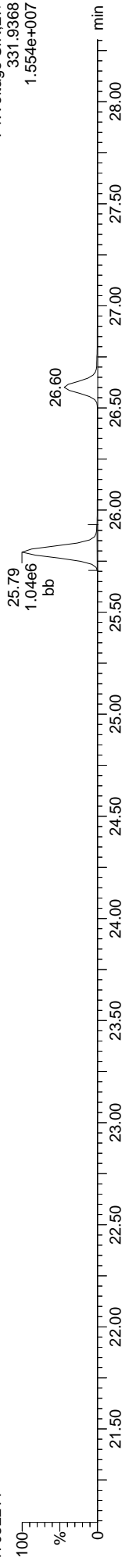
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

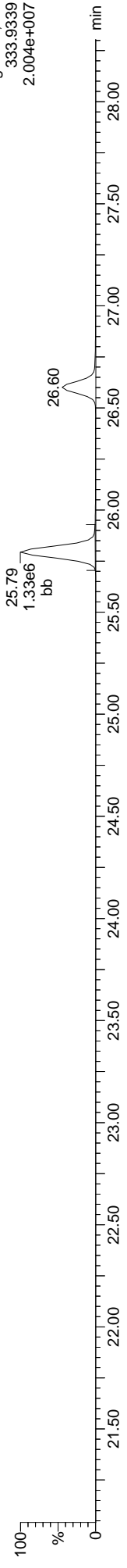
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

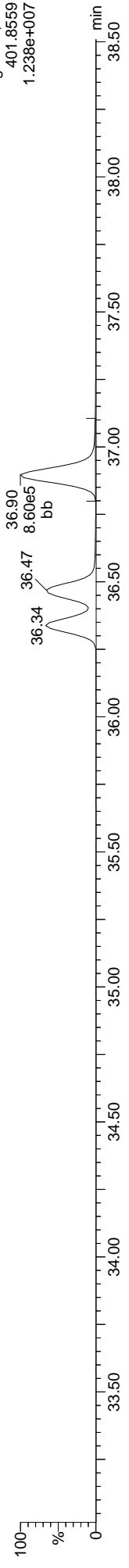
13C-1234-TCDD
17052211



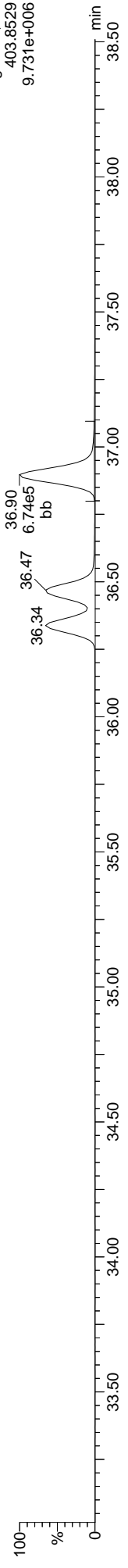
13C-1234-TCDD
17052211



13C-123789-HxCDD
17052211



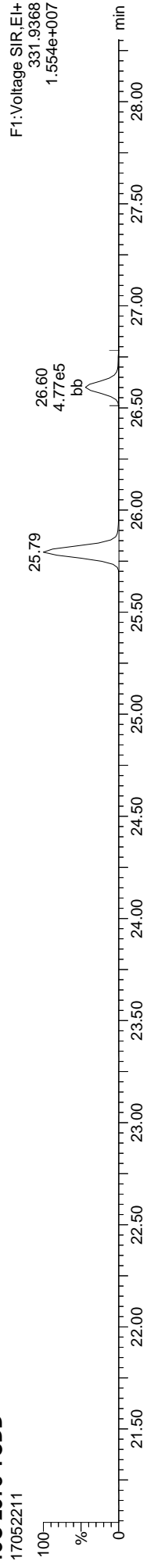
13C-123789-HxCDD
17052211



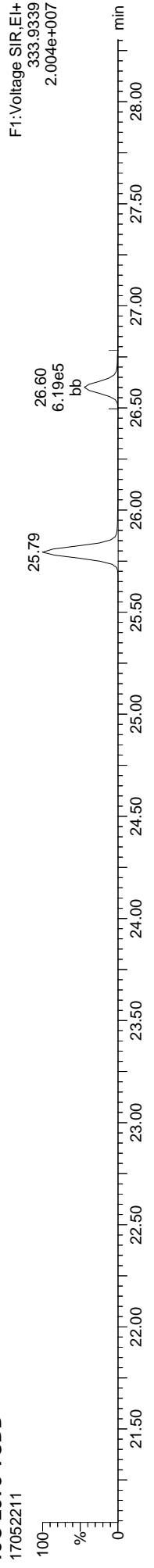
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

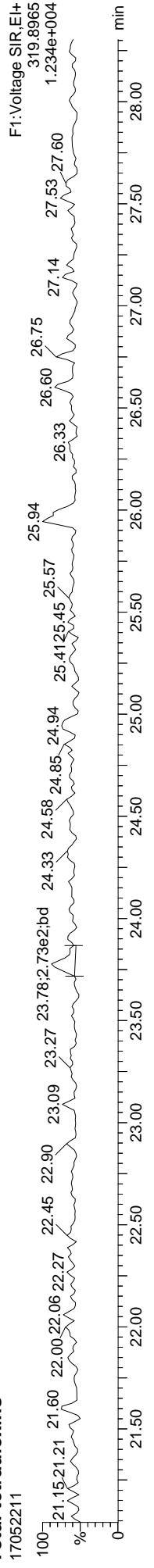
13C-2378-TCDD



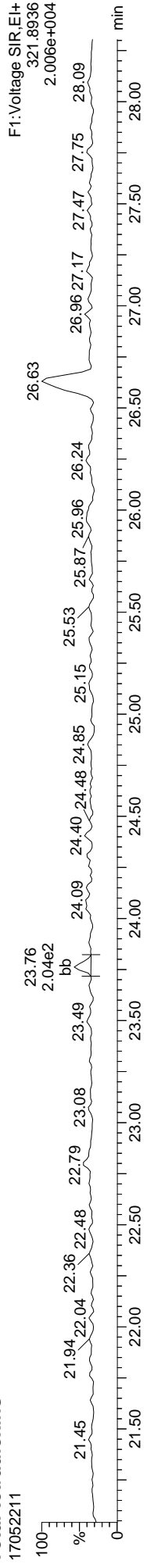
13C-2378-TCDD



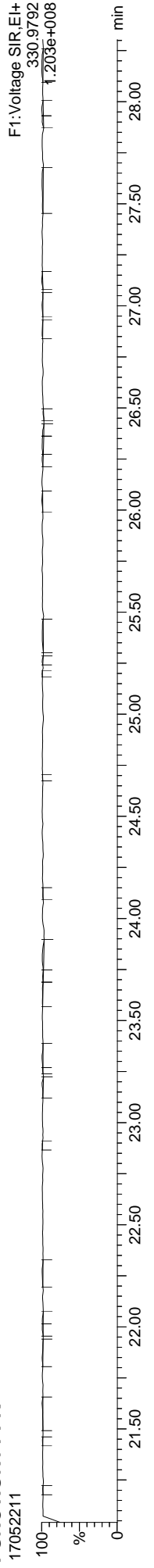
Total-tetradiioxins



Total-tetradiioxins



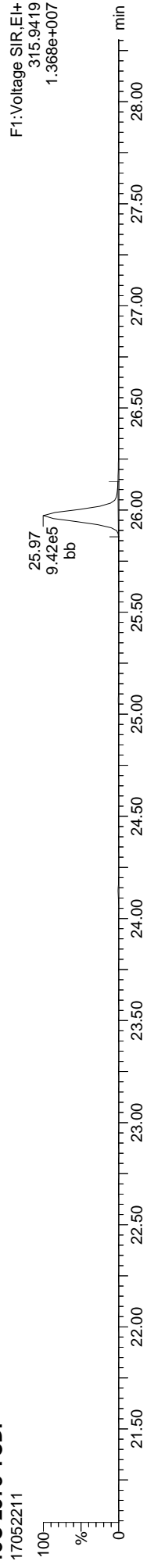
FUNCTION1 PFK



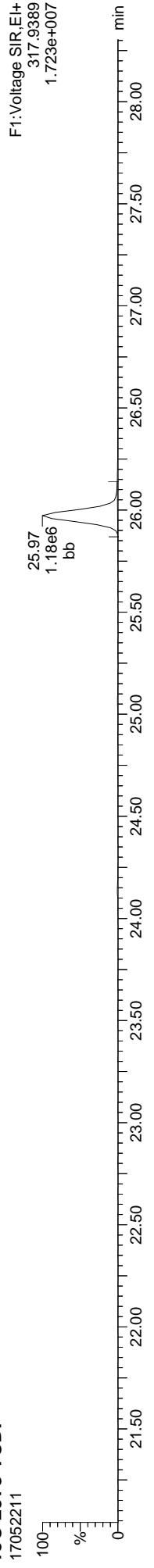
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

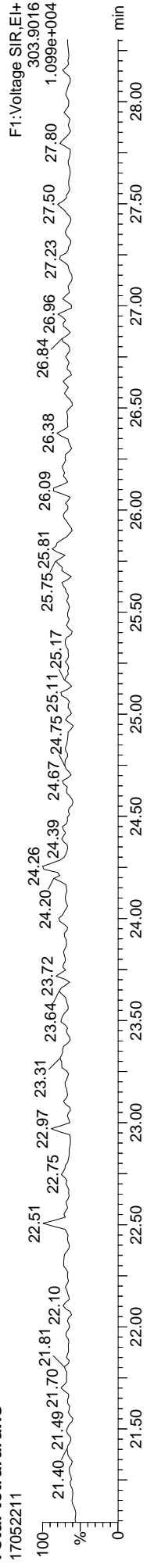
13C-2378-TCDF



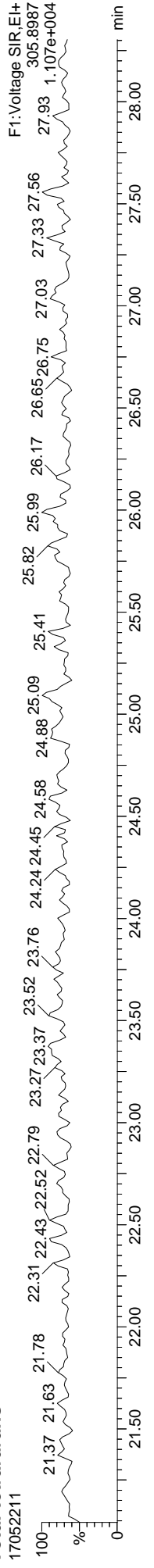
13C-2378-TCDF



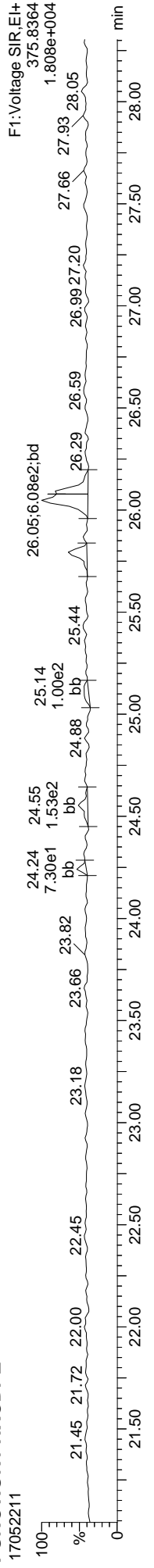
Total-tetrafurans



Total-tetrafurans



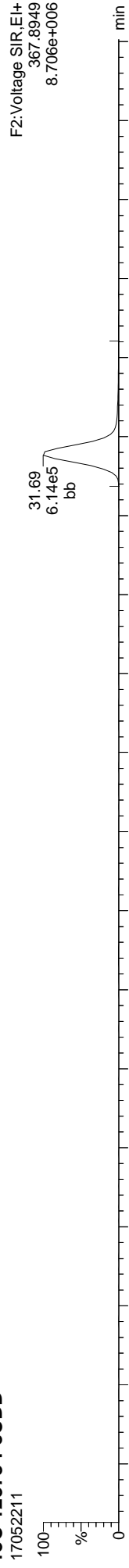
FUNCTION1 HXCDFE



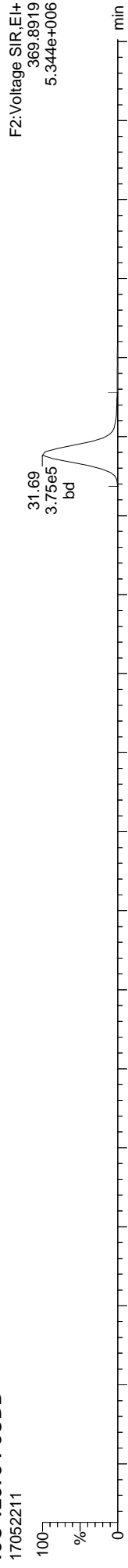
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

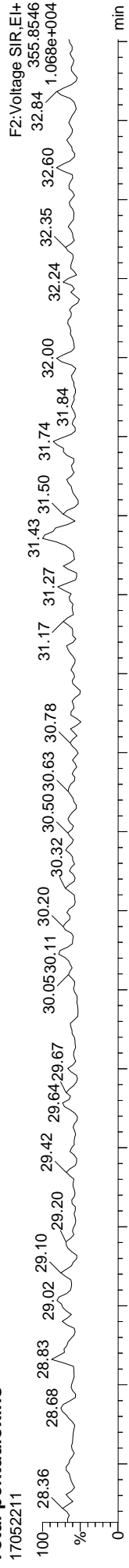
13C-12378-PeCDD



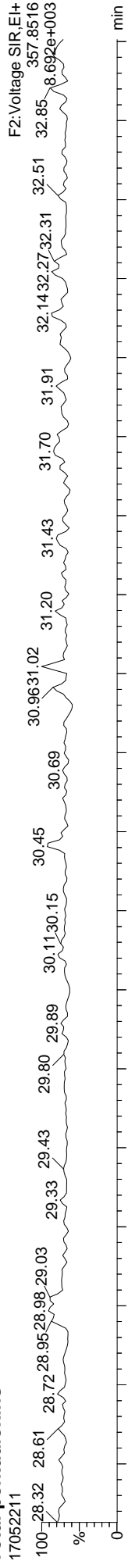
13C-12378-PeCDD



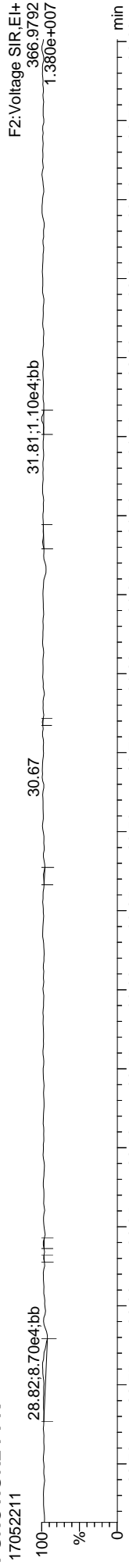
Total-pentadioxins



Total-pentadioxins



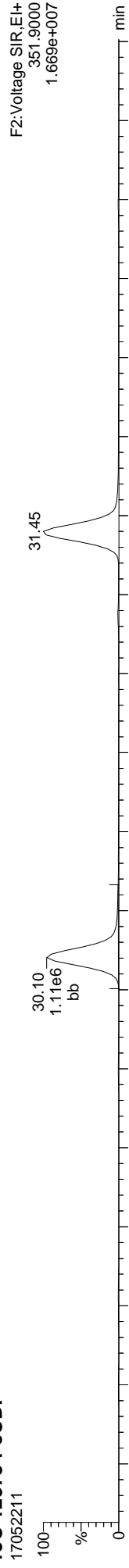
FUNCTION2 PFK



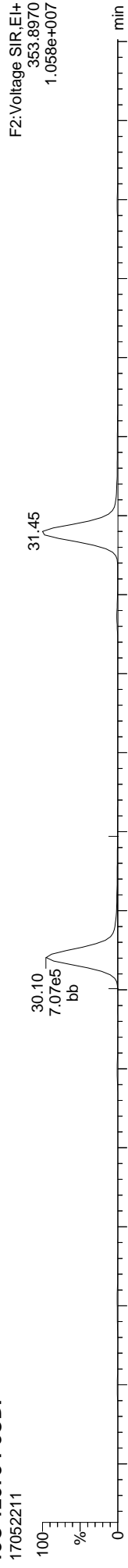
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 170522211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

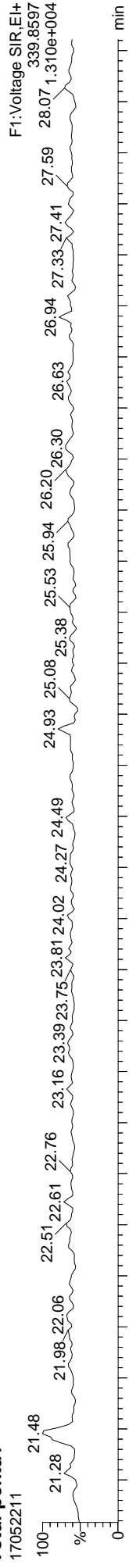
13C-12378-PeCDF



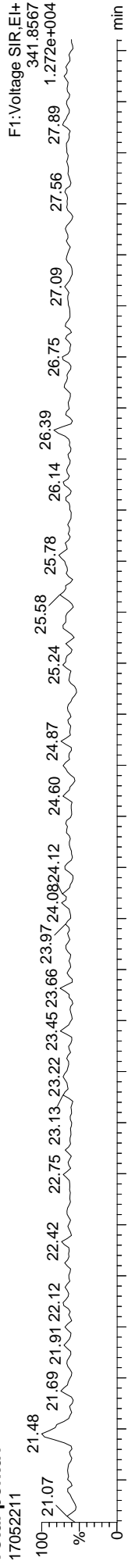
13C-12378-PeCDF



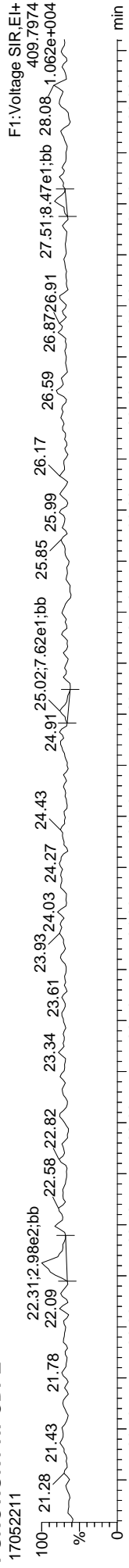
Total-penta1



Total-penta1



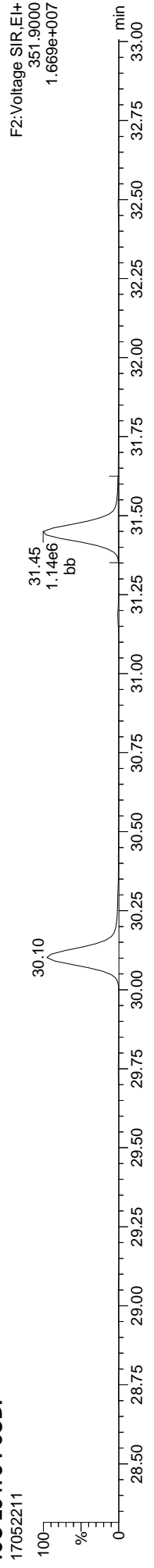
FUNCTION1 HPCDPE



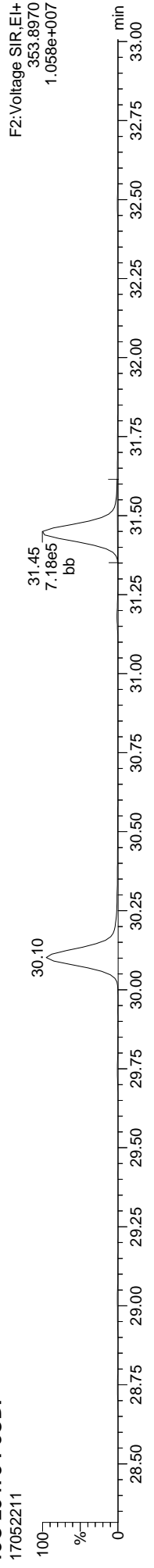
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 170522211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

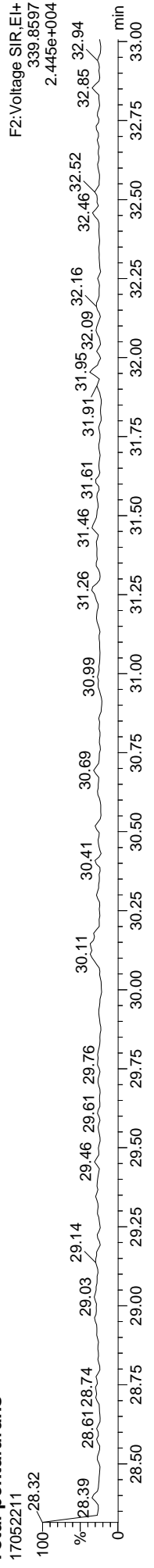
13C-23478-PeCDF



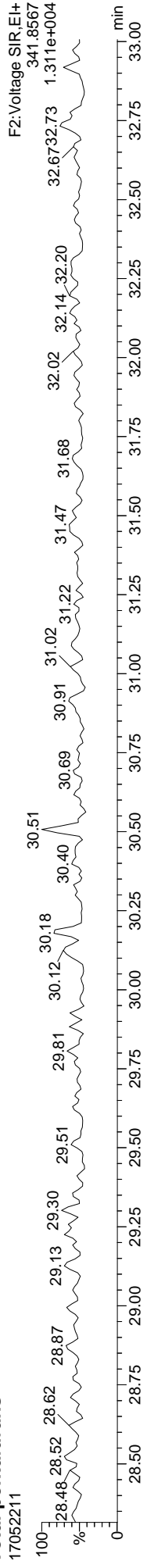
13C-23478-PeCDF



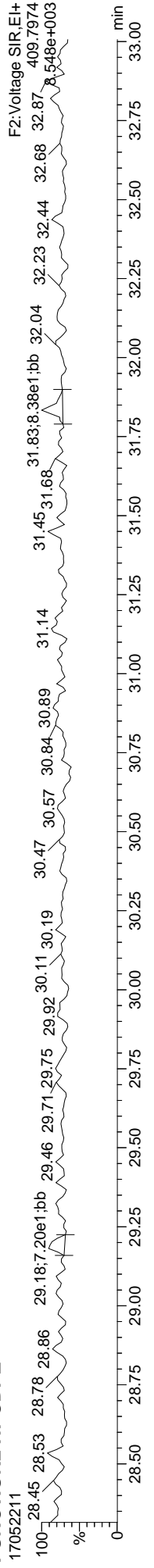
Total-pentafurans



Total-pentafurans



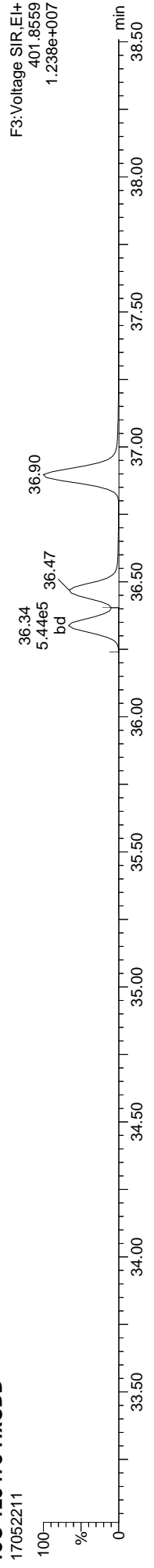
FUNCTION2 HPCDPE



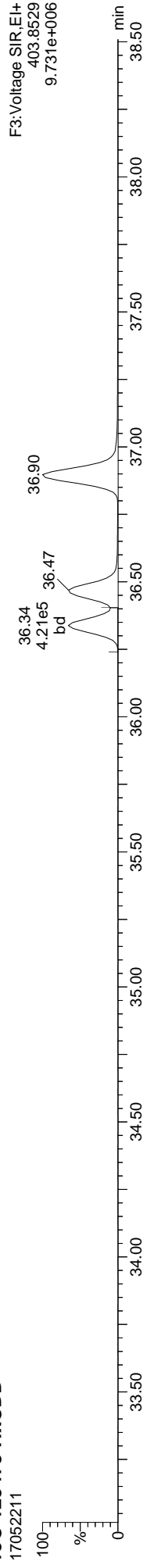
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

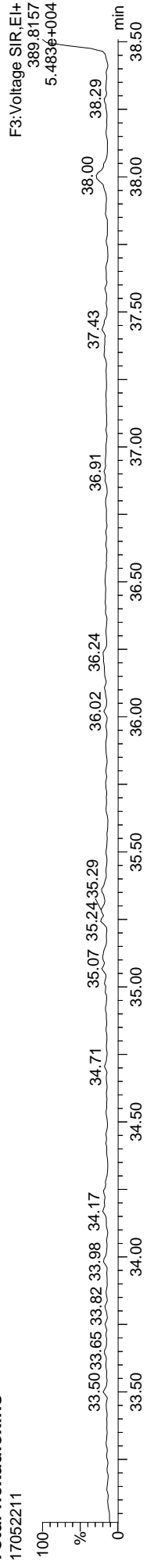
13C-123478-HxCDD



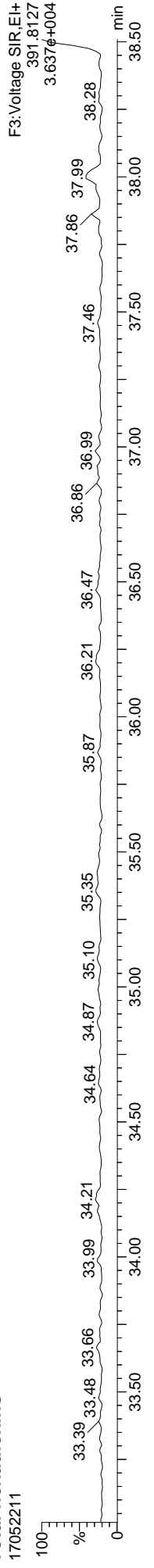
13C-123478-HxCDD



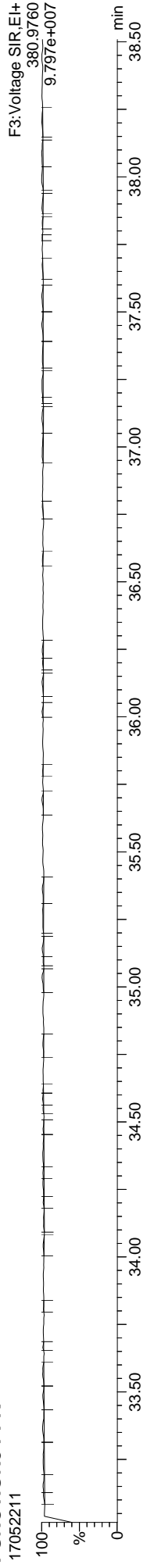
Total-hexadioxins



Total-hexadioxins



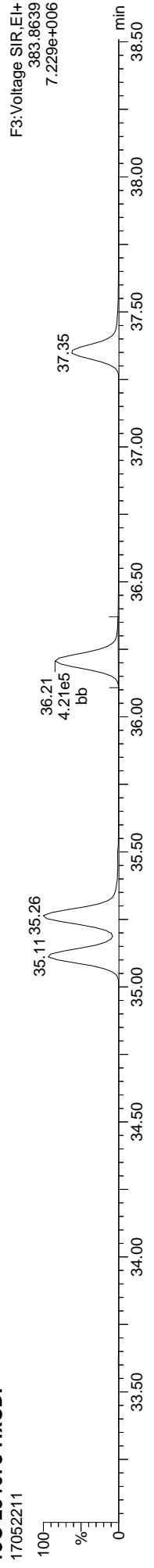
FUNCTION3 PFK



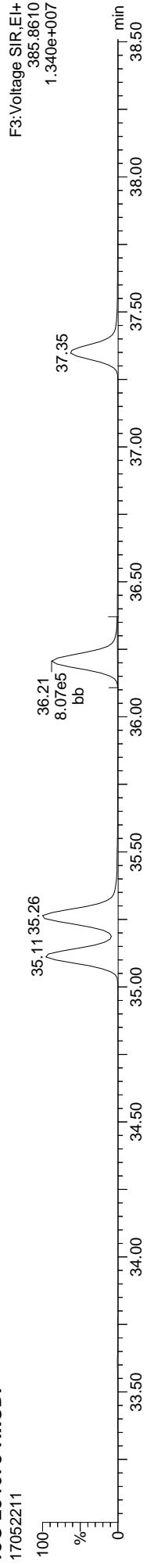
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

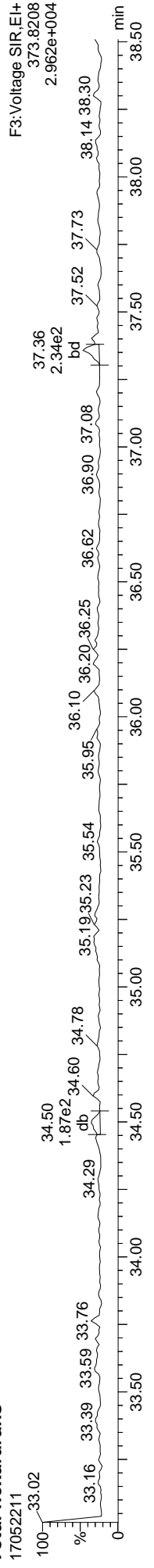
13C-234678-HxCDF



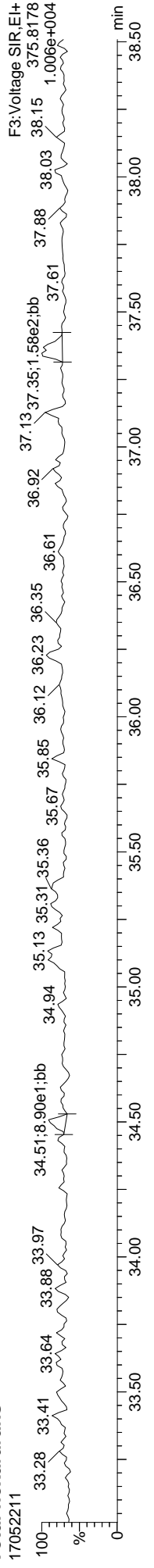
13C-234678-HxCDF



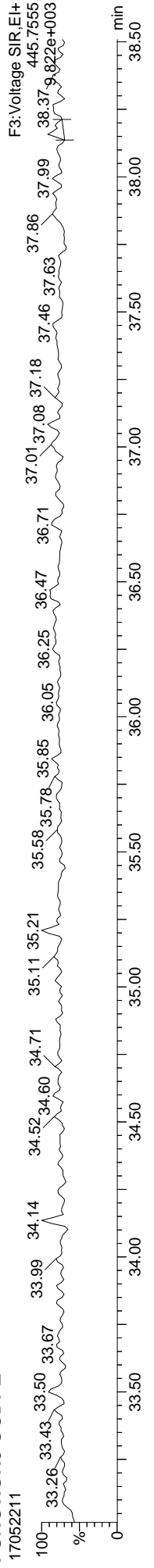
Total-hexafurans



Total-hexafurans



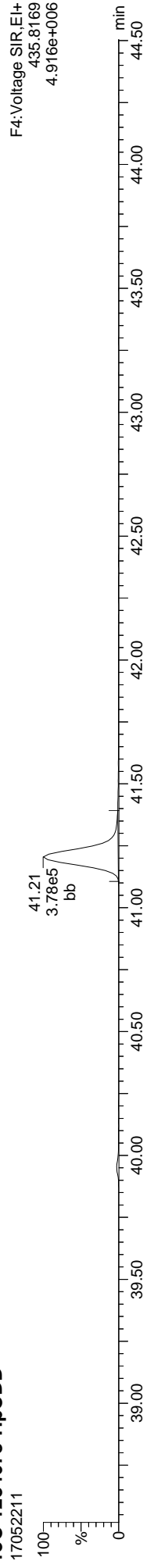
FUNCTION3 OCDPE



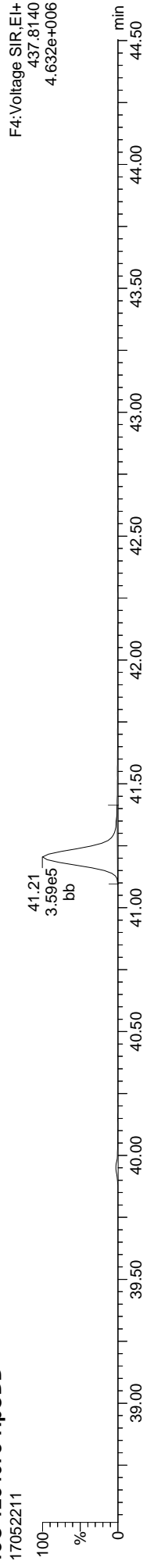
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

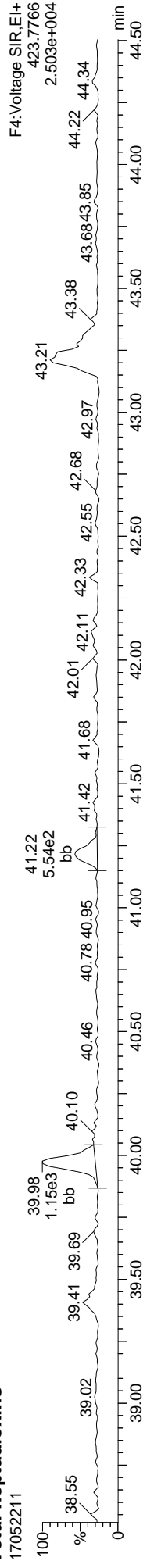
13C-1234678-HpCDD



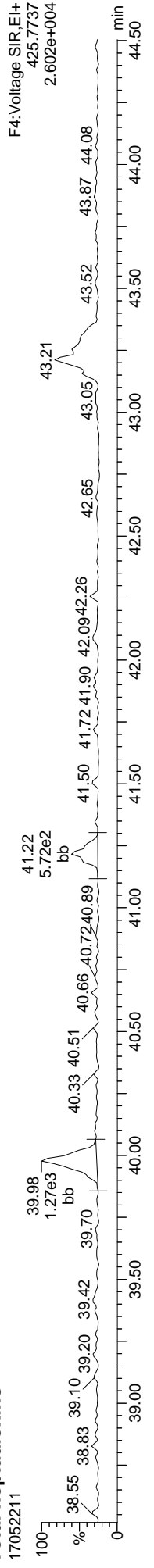
13C-1234678-HpCDD



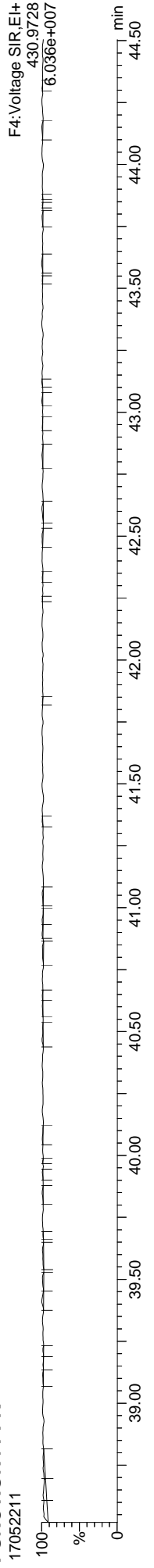
Total-heptadioxins



Total-heptadioxins



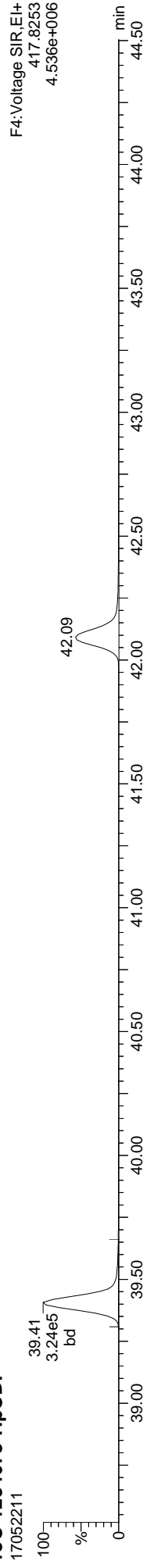
FUNCTION4 PFK



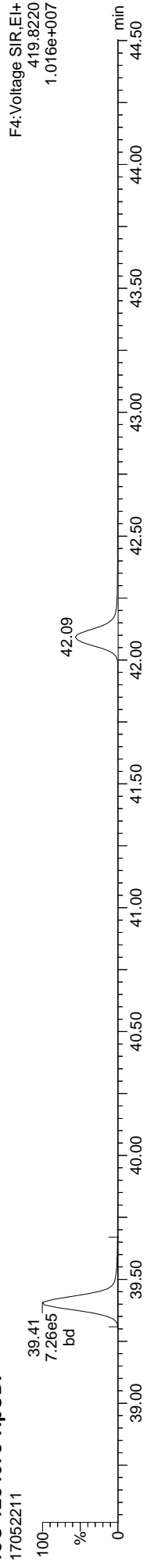
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

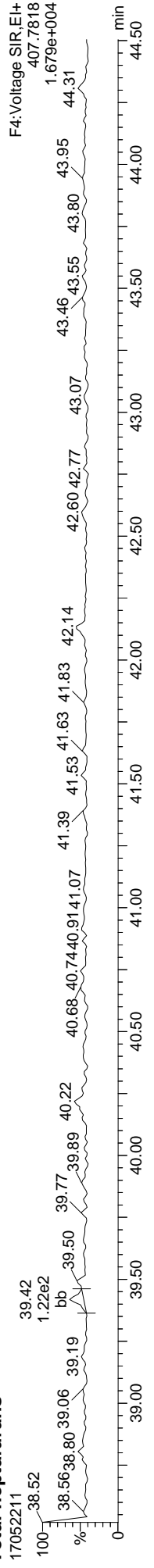
13C-1234678-HpCDF



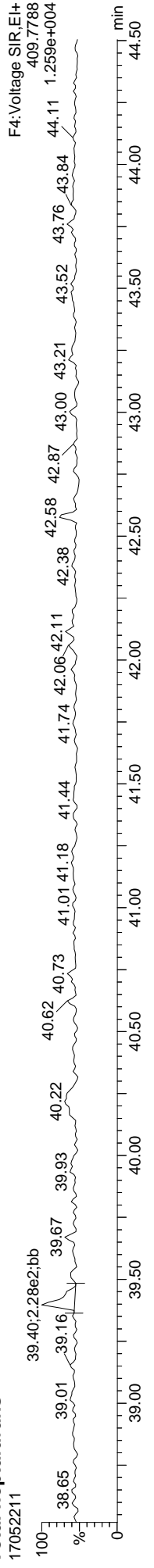
13C-1234678-HpCDF



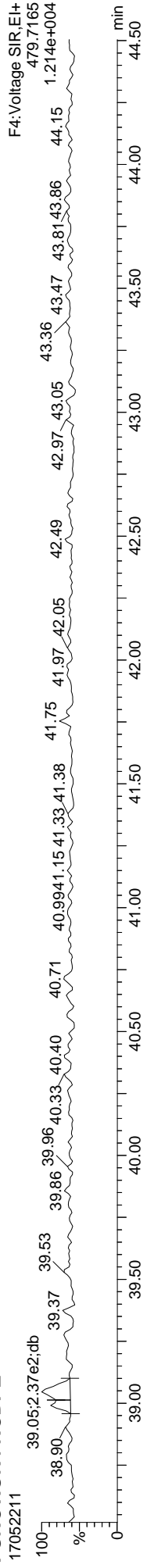
Total-heptafurans



Total-heptafurans



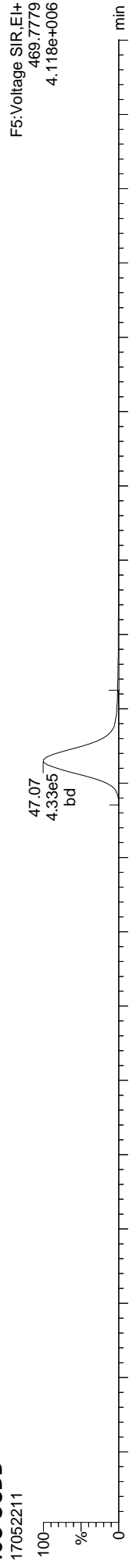
FUNCTION4 NCDPE



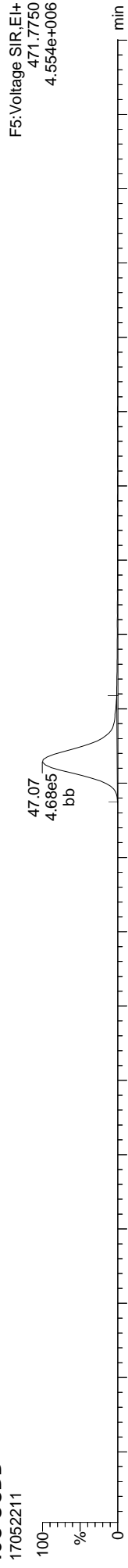
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

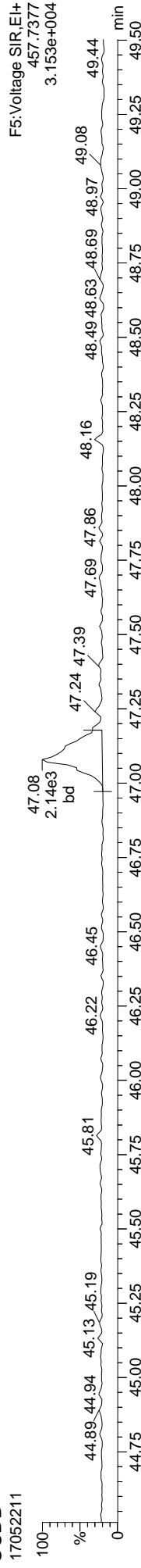
13C-OCDD



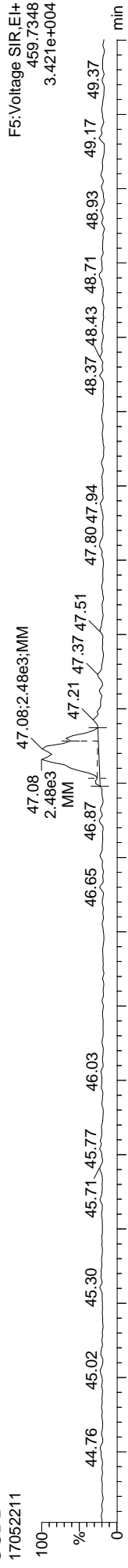
13C-OCDD



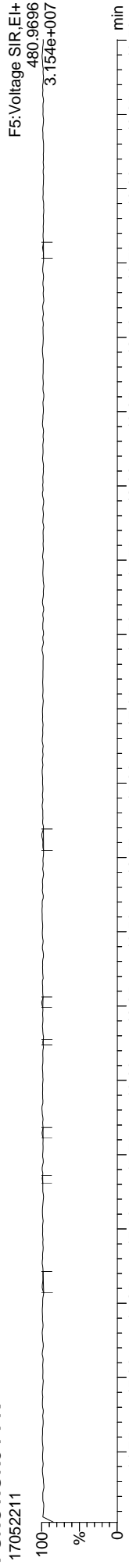
OCDD



OCDD



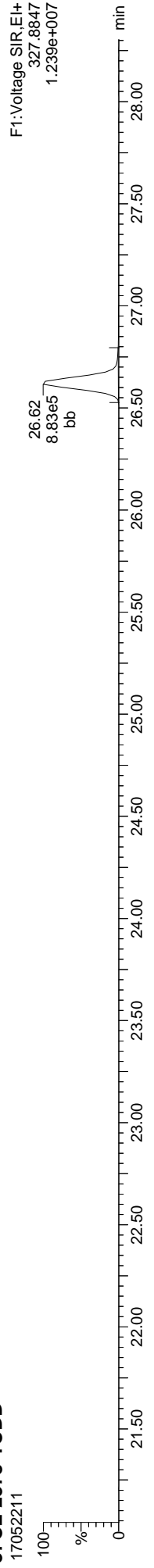
FUNCTION5 PFK



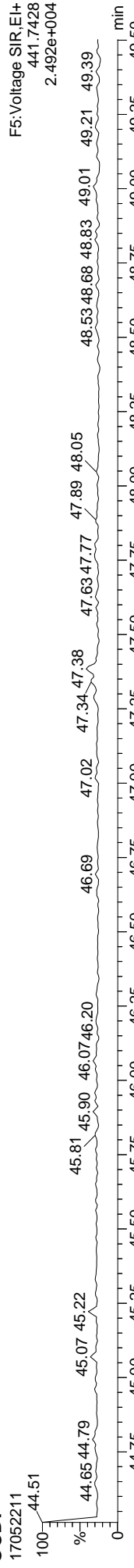
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:22 Pacific Daylight Time

ID: 17D0421-06, Name: 17052211, Date: 22-May-2017, Time: 18:17:05, Conditions: AUTOSPEC01, User: PK

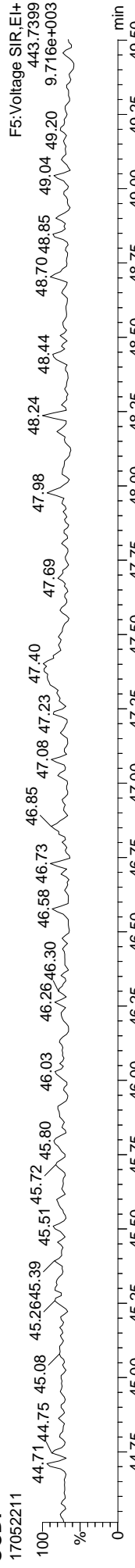
37CL-2378-TCDD



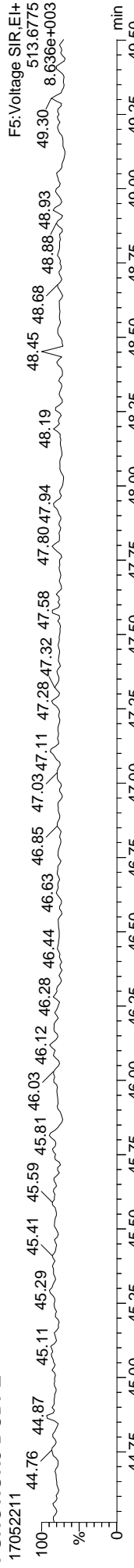
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-07 File ID: 17052212
 Sampled: 04/24/17 12:45 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 19:10
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.05 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.098	0.995	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.129	0.995	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.106	4.98	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.102	4.98	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.114	4.98	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.079	4.98	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.079	4.98	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.084	4.98	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.267	1.054-1.426		4.98	0.113	ng/kg	J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.113	4.98	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.125	4.98	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.131	4.98	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.799	0.893-1.208		4.98	0.054	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.135	4.98	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.364	0.893-1.208		4.98	0.184	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.000	0.757-1.024	0.283	9.95	ND	ng/kg	U
3268-87-9	OCDD	1	0.929	0.757-1.024		9.95	2.48	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.995	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.995	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.995	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.995	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.995	0.113	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.995	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.995	0.054	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.995	1.24	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.014
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.014



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-07</u>
Sampled:	<u>04/24/17 12:45</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052212</u>
		Analyzed:	<u>05/22/17 19:10</u>
		Initial/Final:	<u>10.05 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.788	0.655-0.886		28.5	24 - 169 %	
13C12-2,3,7,8-TCDD		0.772	0.655-0.886		29.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.566	1.318-1.783		24.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.604	1.318-1.783		25.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.641	1.318-1.783		26.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.521	0.434-0.587		28.4	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.524	0.434-0.587		27.6	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.521	0.434-0.587		27.7	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.539	0.434-0.587		25.7	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.279	1.054-1.426		31.0	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.243	1.054-1.426		28.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.444	0.374-0.506		26.5	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.463	0.374-0.506		24.5	26 - 138 %	*
13C12-1,2,3,4,6,7,8-HpCDD		1.077	0.893-1.208		28.8	23 - 140 %	
13C12-OCDD		0.888	0.757-1.024		21.5	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			95.1	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDBIDioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-07, **Name:** 17052212, **Date:** 22-May-2017, **Time:** 19:10:26, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF					1.018		0.770	838	1530									
12378-PeCDF					0.977		1.550	926	1244									
23478-PeCDF					1.019		1.550	926	1244									
123478-HxCDF					1.150		1.240	711	745									
234678-HxCDF					1.188		1.240	711	745									
123678-HxCDF					1.100		1.240	711	745									
123789-HxCDF	37.381	1.001	1.634e2	1.289e2	1.116	1.267	1.240	711	745	2.43e3	3.87e3	3.4	YES	NO	bb	bd	0.057	
1234678-HpCDF	39.419	1.000	7.826e1	9.801e1	1.238	0.799	1.050	613	519	3.65e3	2.84e3	6.0	YES	YES	bb	bb	0.027	
1234789-HpCDF					1.257		1.050	613	519									
OCDF					1.321		0.890	495	837									
2378-TCDD					1.244		0.770	1217	808									
12378-PeCDD					1.058		1.550	881	490									
123478-HxCDD					1.119		1.240	754	748									
123678-HxCDD					1.040		1.240	754	748									
123789-HxCDD					0.981		1.240	754	748									
1234678-HpCDD	41.217	1.000	1.031e2	2.830e2	1.132	0.364	1.050	551	636	3.08e3	6.33e3	5.6	YES	YES	bb	bb	0.092	
OCDD	47.071	1.000	1.473e3	1.585e3	1.117	0.929	0.890	596	523	1.44e4	2.02e4	24.1	YES	NO	MM	MM	1.245	
13C-2378-TCDF	25.973	1.006	4.537e5	5.756e5	1.685	0.788	0.770	6615	3776	6.24e6	7.99e6	944.0	YES	NO	bb	bb	28.515	
13C-12378-PeCDF	30.113	1.167	5.451e5	3.481e5	1.706	1.566	1.550	2952	2034	7.66e6	4.84e6	2595.1	YES	NO	bb	bd	24.441	
13C-23478-PeCDF	31.461	1.219	5.520e5	3.441e5	1.632	1.604	1.550	2952	2034	7.67e6	4.80e6	2599.2	YES	NO	bb	bb	25.632	
13C-123478-HxCDF	35.122	0.952	2.272e5	4.359e5	1.682	0.521	0.510	2685	3157	3.26e6	6.40e6	1215.8	YES	NO	bd	bd	28.397	
13C-123678-HxCDF	35.276	0.956	2.563e5	4.893e5	1.945	0.524	0.510	2685	3157	3.43e6	6.54e6	1278.2	YES	NO	dd	dd	27.609	
13C-234678-HxCDF	36.218	0.982	2.087e5	4.002e5	1.582	0.521	0.510	2685	3157	2.99e6	5.71e6	1115.3	YES	NO	bd	bd	27.723	
13C-123789-HxCDF	37.359	1.013	1.613e5	2.994e5	1.291	0.539	0.510	2685	3157	2.24e6	4.22e6	835.2	YES	NO	bd	bb	25.711	
13C-1234678-HpCDF	39.419	1.068	1.614e5	3.637e5	1.427	0.444	0.440	1697	3207	2.19e6	4.90e6	1290.2	YES	NO	bd	bb	26.518	
13C-1234789-HpCDF	42.105	1.141	1.031e5	2.225e5	0.957	0.463	0.440	1697	3207	1.26e6	2.66e6	740.8	YES	NO	bb	bb	24.513	
13C-1234-TCDD	25.809	0.000	9.406e5	1.202e6	1.000	0.783	0.770	2579	1150	1.36e7	1.71e7	5258.5	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.616	1.031	2.372e5	3.072e5	0.873	0.772	0.770	2579	1150	3.29e6	4.28e6	1275.0	YES	NO	bb	bb	29.113	
13C-12378-PeCDD	31.702	1.228	3.024e5	1.842e5	0.860	1.641	1.550	2402	1443	4.21e6	2.64e6	1753.2	YES	NO	bd	bd	26.408	
13C-123478-HxCDD	36.350	0.985	2.686e5	2.101e5	1.114	1.279	1.240	1989	2988	3.96e6	3.07e6	1992.3	YES	NO	bd	bd	30.964	
13C-123678-HxCDD	36.471	0.988	2.762e5	2.223e5	1.258	1.243	1.240	1989	2988	3.81e6	3.09e6	1915.9	YES	NO	db	dd	28.535	
13C-1234678-HpCDD	41.217	1.117	1.917e5	1.780e5	0.924	1.077	1.050	1490	1906	2.42e6	2.27e6	1625.5	YES	NO	bb	bb	28.827	
13C-OCDD	47.080	1.276	2.069e5	2.331e5	0.738	0.888	0.890	1885	1129	2.00e6	2.21e6	1061.4	YES	NO	bb	bd	42.932	
13C-123789-HxCDD	36.898	0.000	7.803e5	6.079e5	1.000	1.283	1.240	1989	2988	1.12e7	8.87e6	5654.6	YES	NO	bb	bb	100.000	
Total-tetrafurans			0.000e0	0.000e0	1.018			838		0.00e0								

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld

Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					685		0.00e0								
Total-pentafurans			0.000e0		0.998			926		0.00e0								
Total-hexafurans			1.634e2		1.138			711		2.43e3								0.057
Total-heptafurans			7.826e1		1.248			613		3.65e3								0.027
Total-Furans			2.416e2		1.138			838		6.08e3								0.084
Total-tetradioxins			0.000e0		1.244			1217		0.00e0								
Total-pentadioxins			0.000e0		1.058			881		0.00e0								
Total-hexadioxins			0.000e0		1.047			754		0.00e0								
Total-heptadioxins			1.194e3		1.132			551		1.94e4								0.625
Total-Dioxins			2.667e3		1.099			1217		3.37e4								1.870
Total-TEQ			2.909e3					1217		3.98e4								1.954
37CL-2378-TCDD	26.631	1.032	8.322e5		1.021			1681		1.17e7		6940.0	YES		bb			38.034
FUNCTION1 PFK			7.380e4					928757		2.02e6								0.000
FUNCTION2 PFK			2.105e5					179882		5.06e6								0.000
FUNCTION3 PFK			1.699e6					869324		3.55e7								0.000
FUNCTION4 PFK			2.595e5					554503		7.67e6								
FUNCTION5 PFK			9.183e3					322488		7.17e5								
FUNCTION1 HXCD...			4.401e3					571		3.42e4								0.000
FUNCTION1 HPCD...			1.538e3					725		4.81e3								0.000
FUNCTION2 HPCD...			7.079e1					669		2.29e3								0.000
FUNCTION3 OCDPE			0.000e0					325		0.00e0								0.000
FUNCTION4 NCDPE			1.615e2					492		5.43e3								0.000
FUNCTION5 DCDPE			0.000e0					323		0.00e0								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.38	1.634e2	1.289e2	1.116	1.27	1.24	3.4	YES	NO	bb	bd	0.057

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.42	7.826e1	9.801e1	1.238	0.80	1.05	6.0	YES	YES	bb	bb	0.027

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.38	1.634e2	1.289e2	1.116	1.27	1.24	3.4	YES	NO	bb	bd	0.057
2	1234678-HpCDF	39.42	7.826e1	9.801e1	1.238	0.80	1.05	6.0	YES	YES	bb	bb	0.027

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.22	1.031e2	2.830e2	1.132	0.36	1.05	5.6	YES	YES	bb	bb	0.092
2	Total-heptadioxins	39.98	1.091e3	1.139e3	1.132	0.96	1.05	29.5	YES	NO	bd	bb	0.533

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.22	1.031e2	2.830e2	1.132	0.36	1.05	5.6	YES	YES	bb	bb	0.092
2	Total-heptadioxins	39.98	1.091e3	1.139e3	1.132	0.96	1.05	29.5	YES	NO	bd	bb	0.533
3	OCDD	47.07	1.473e3	1.585e3	1.117	0.93	0.89	24.1	YES	NO	MM	MM	1.245

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.38	1.634e2	1.289e2	1.116	1.27	1.24	3.4	YES	NO	bb	bd	0.057
2	1234678-HpCDF	39.42	7.826e1	9.801e1	1.238	0.80	1.05	6.0	YES	YES	bb	bb	0.027
3	1234678-HpCDD	41.22	1.031e2	2.830e2	1.132	0.36	1.05	5.6	YES	YES	bb	bb	0.092
4	Total-heptadioxins	39.98	1.091e3	1.139e3	1.132	0.96	1.05	29.5	YES	NO	bd	bb	0.533
5	OCDD	47.07	1.473e3	1.585e3	1.117	0.93	0.89	24.1	YES	NO	MM	MM	1.245

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.48	7.380e4					2.2	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.36	4.429e4					3.5	YES		bd		0.000
2	FUNCTION2 PFK	32.31	7.007e3					0.9	NO		db		0.000
3	FUNCTION2 PFK	32.23	8.103e3					1.4	NO		bd		0.000
4	FUNCTION2 PFK	31.90	3.717e3					1.0	NO		bb		0.000
5	FUNCTION2 PFK	31.58	9.968e2					0.5	NO		bb		0.000
6	FUNCTION2 PFK	31.54	7.018e3					1.0	NO		bb		0.000
7	FUNCTION2 PFK	31.30	7.029e3					1.3	NO		bb		0.000
8	FUNCTION2 PFK	30.70	5.342e3					1.3	NO		db		0.000
9	FUNCTION2 PFK	30.62	8.852e3					1.0	NO		bd		0.000
10	FUNCTION2 PFK	30.21	3.628e3					0.9	NO		db		0.000
11	FUNCTION2 PFK	30.17	4.656e3					1.0	NO		bd		0.000
12	FUNCTION2 PFK	29.90	3.244e3					0.8	NO		bb		0.000
13	FUNCTION2 PFK	29.85	1.033e3					0.5	NO		bb		0.000
14	FUNCTION2 PFK	29.01	1.162e4					1.5	NO		db		0.000
15	FUNCTION2 PFK	28.95	9.052e3					1.7	NO		bd		0.000
16	FUNCTION2 PFK	28.63	1.806e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	28.44	4.568e4					3.3	YES		db		0.000
18	FUNCTION2 PFK	32.91	8.374e3					0.8	NO		db		0.000
19	FUNCTION2 PFK	32.83	1.075e4					1.7	NO		dd		0.000
20	FUNCTION2 PFK	32.77	8.819e3					1.7	NO		bd		0.000
21	FUNCTION2 PFK	32.68	9.482e3					1.6	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.69	4.260e4					1.2	NO		bb		0.000
2	FUNCTION3 PFK	34.44	3.106e4					1.2	NO		bb		0.000
3	FUNCTION3 PFK	34.37	6.477e4					1.9	NO		db		0.000
4	FUNCTION3 PFK	34.30	1.149e4					0.7	NO		bd		0.000
5	FUNCTION3 PFK	34.26	6.973e4					1.8	NO		bb		0.000
6	FUNCTION3 PFK	34.16	9.164e4					2.0	NO		bb		0.000
7	FUNCTION3 PFK	34.04	3.484e4					1.0	NO		bb		0.000
8	FUNCTION3 PFK	33.71	9.729e4					1.7	NO		bb		0.000
9	FUNCTION3 PFK	33.57	9.213e4					2.5	NO		db		0.000
10	FUNCTION3 PFK	33.45	1.010e5					1.5	NO		bd		0.000
11	FUNCTION3 PFK	33.34	6.418e4					1.4	NO		bb		0.000
12	FUNCTION3 PFK	38.44	6.233e4					1.7	NO		bb		0.000
13	FUNCTION3 PFK	38.35	1.997e4					1.0	NO		bb		0.000
14	FUNCTION3 PFK	38.18	2.094e4					1.1	NO		db		0.000
15	FUNCTION3 PFK	38.14	2.009e4					1.1	NO		bd		0.000
16	FUNCTION3 PFK	37.97	4.408e3					0.5	NO		bb		0.000
17	FUNCTION3 PFK	37.67	1.260e5					1.8	NO		db		0.000
18	FUNCTION3 PFK	37.56	7.501e4					1.7	NO		bd		0.000
19	FUNCTION3 PFK	37.36	8.703e4					1.9	NO		bb		0.000
20	FUNCTION3 PFK	36.83	3.688e3					0.4	NO		bb		0.000
21	FUNCTION3 PFK	36.24	7.188e4					1.7	NO		db		0.000
22	FUNCTION3 PFK	36.13	1.154e5					2.4	NO		bd		0.000
23	FUNCTION3 PFK	35.78	1.054e5					1.9	NO		bb		0.000
24	FUNCTION3 PFK	35.64	8.397e4					1.4	NO		bb		0.000
25	FUNCTION3 PFK	35.24	7.924e4					2.0	NO		bb		0.000
26	FUNCTION3 PFK	35.12	8.601e4					2.3	NO		bb		0.000
27	FUNCTION3 PFK	34.88	3.657e4					1.1	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	44.22	2.714e4					1.3	NO		bb		
2	FUNCTION4 PFK	43.77	1.405e4					1.1	NO		bb		
3	FUNCTION4 PFK	43.51	2.778e3					0.5	NO		bb		
4	FUNCTION4 PFK	42.78	4.151e4					1.9	NO		bb		
5	FUNCTION4 PFK	42.58	3.233e4					1.4	NO		bb		
6	FUNCTION4 PFK	41.92	1.714e4					1.1	NO		bb		
7	FUNCTION4 PFK	41.36	3.232e4					1.6	NO		bb		
8	FUNCTION4 PFK	40.99	1.528e4					1.1	NO		bb		
9	FUNCTION4 PFK	40.21	7.586e3					0.7	NO		bb		
10	FUNCTION4 PFK	39.45	4.611e4					1.6	NO		bb		
11	FUNCTION4 PFK	38.90	2.325e4					1.5	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	48.24	2.613e3					0.9	NO		bb		
2	FUNCTION5 PFK	47.31	6.570e3					1.3	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.98	1.026e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	26.06	6.088e2					13.9	YES		bb		0.000
3	FUNCTION1 HXCD...	25.78	1.589e2					2.7	NO		bb		0.000
4	FUNCTION1 HXCD...	23.18	1.134e3					11.3	YES		db		0.000
5	FUNCTION1 HXCD...	23.02	7.545e2					10.7	YES		dd		0.000
6	FUNCTION1 HXCD...	22.84	9.504e2					7.5	YES		dd		0.000
7	FUNCTION1 HXCD...	22.46	2.048e2					4.1	YES		bd		0.000
8	FUNCTION1 HXCD...	22.25	1.504e2					2.3	NO		bb		0.000
9	FUNCTION1 HXCD...	21.76	2.489e2					2.1	NO		bb		0.000
10	FUNCTION1 HXCD...	21.15	8.757e1					2.3	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.99	1.538e3					6.6	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.16	7.079e1					3.4	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	43.89	7.649e1					6.9	YES		bb		0.000
2	FUNCTION4 NCDPE	39.01	8.498e1					4.1	YES		bb		0.000

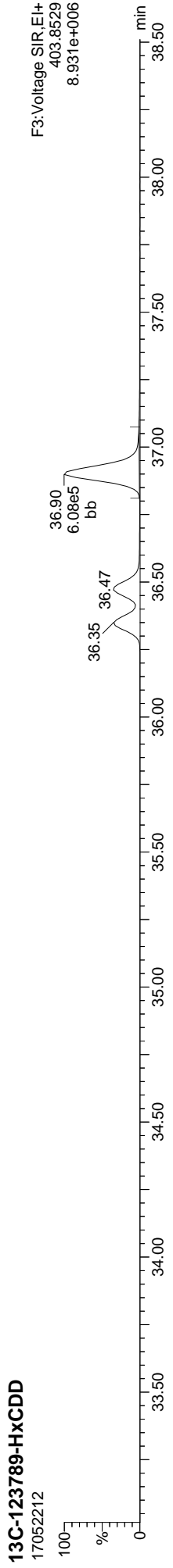
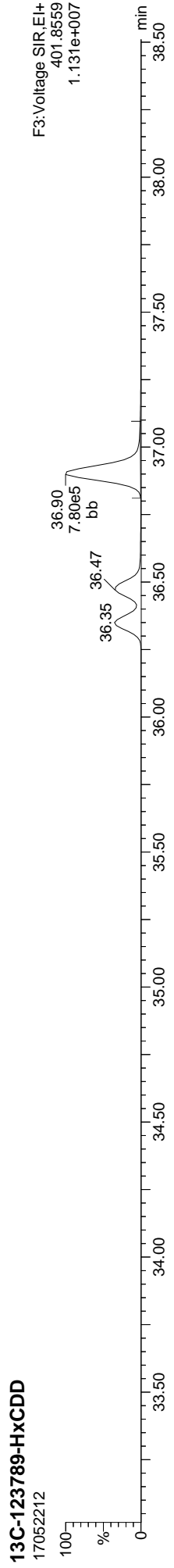
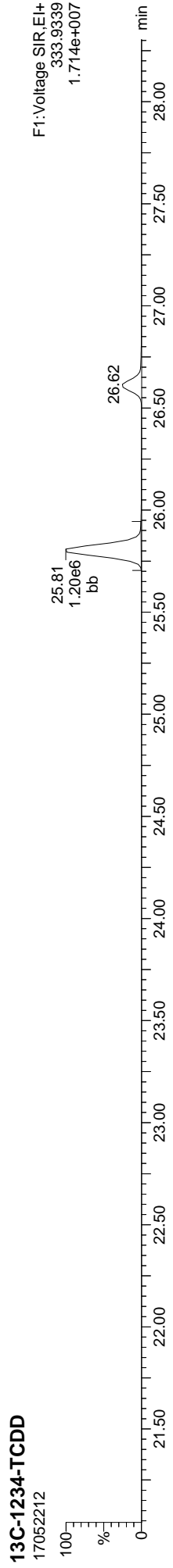
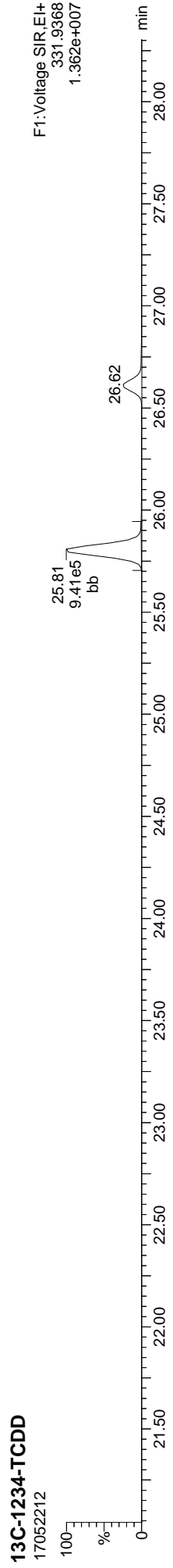
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

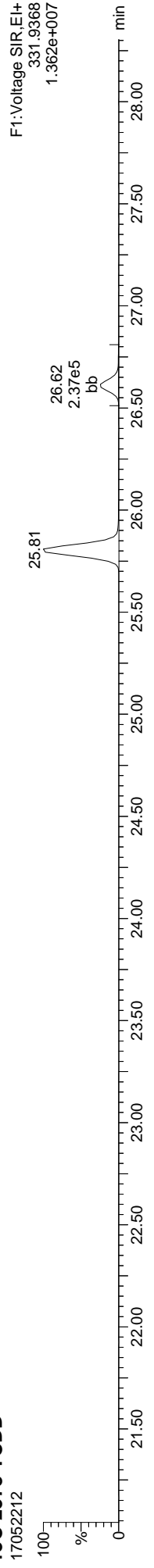
ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK



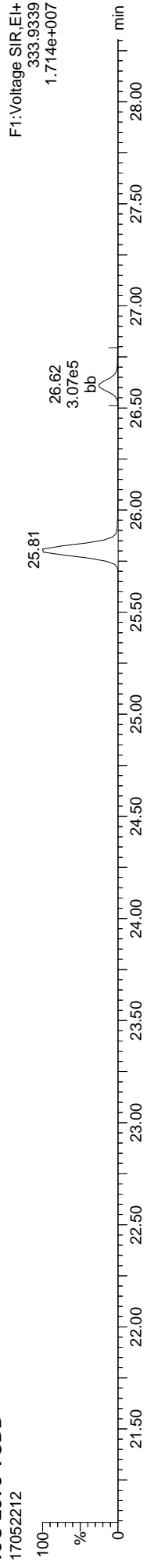
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

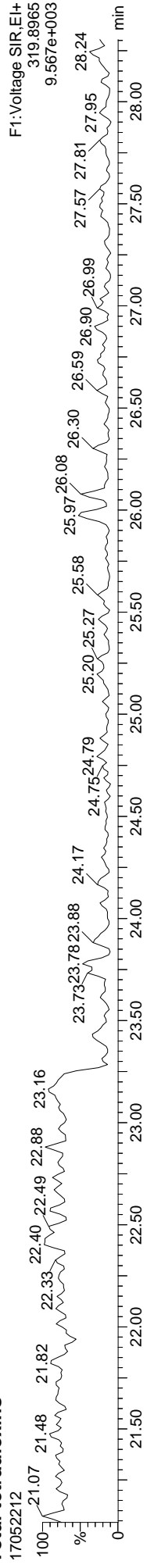
13C-2378-TCDD



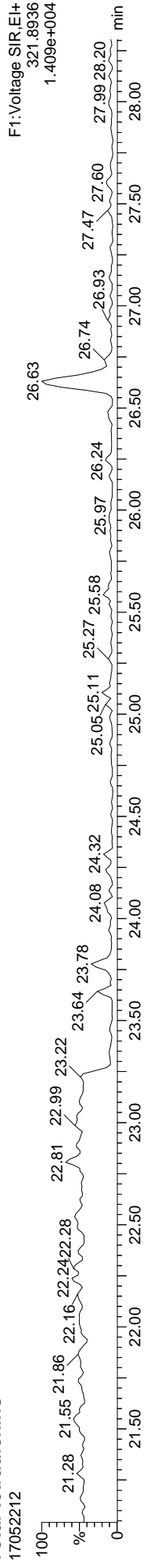
13C-2378-TCDD



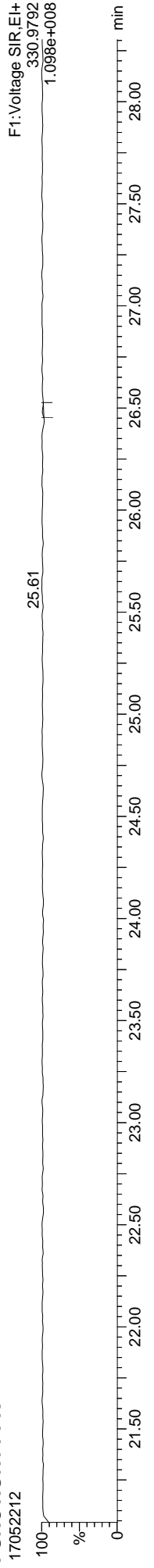
Total-tetradioxins



Total-tetradioxins



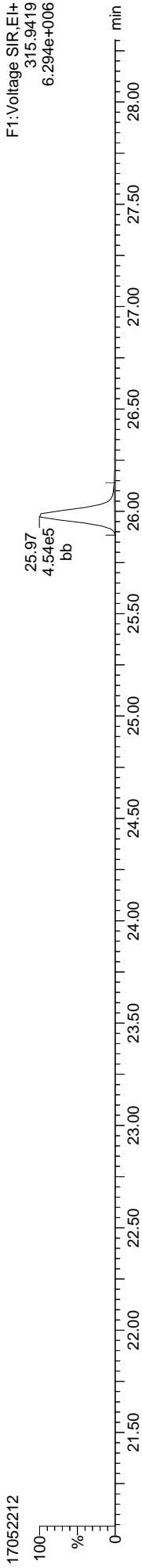
FUNCTION1 PFK



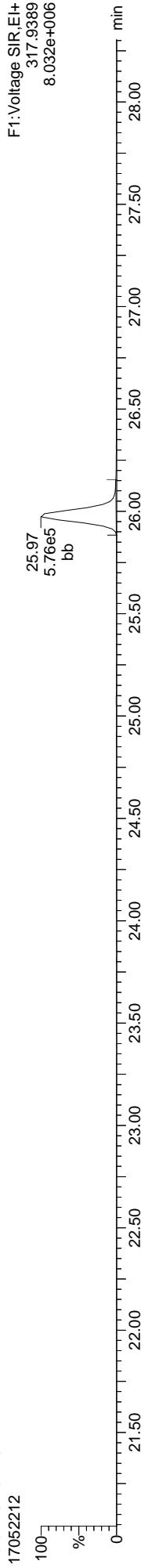
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

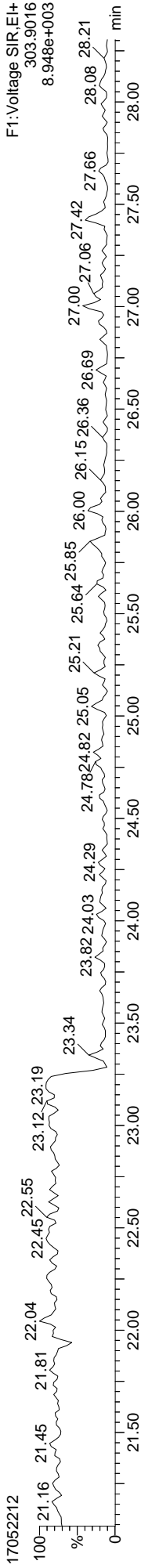
13C-2378-TCDF



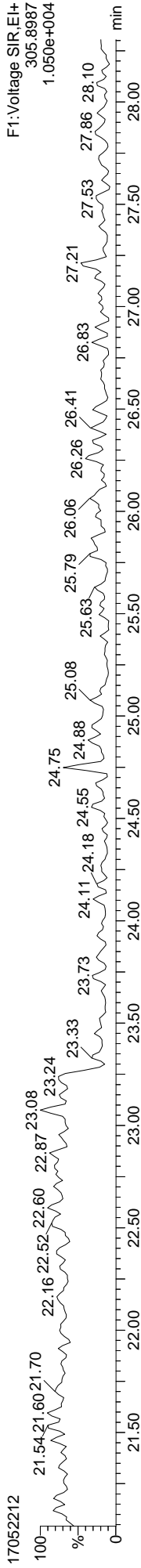
13C-2378-TCDF



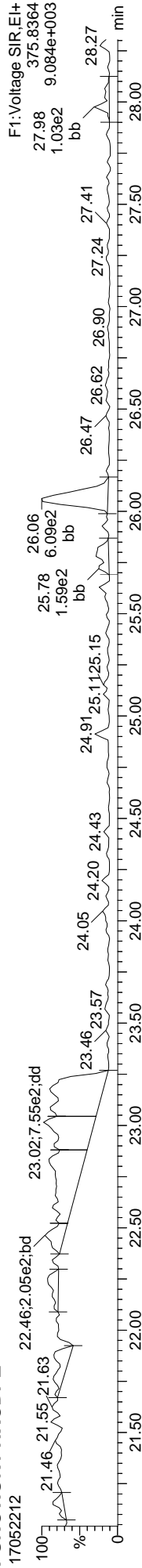
Total-tetrafurans



Total-tetrafurans



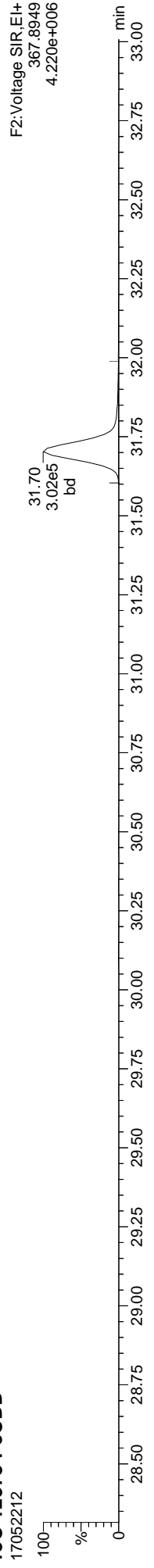
FUNCTION1 HXCDFE



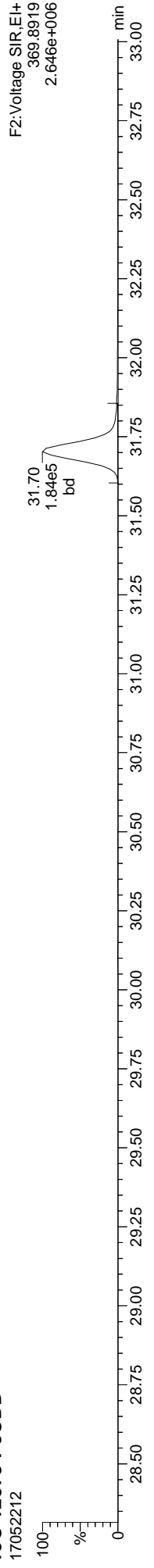
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

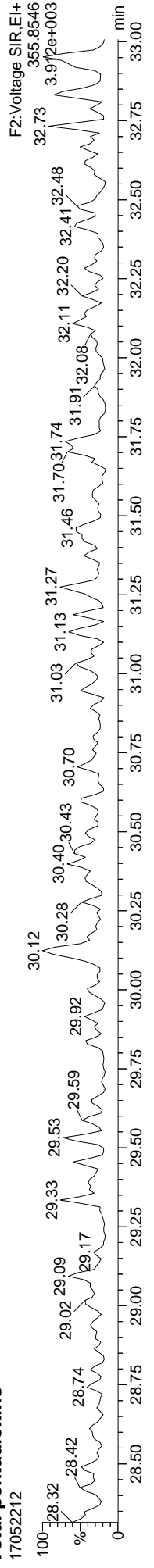
13C-12378-PeCDD



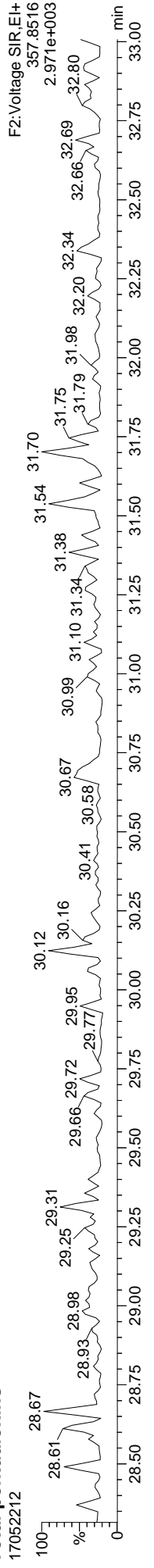
13C-12378-PeCDD



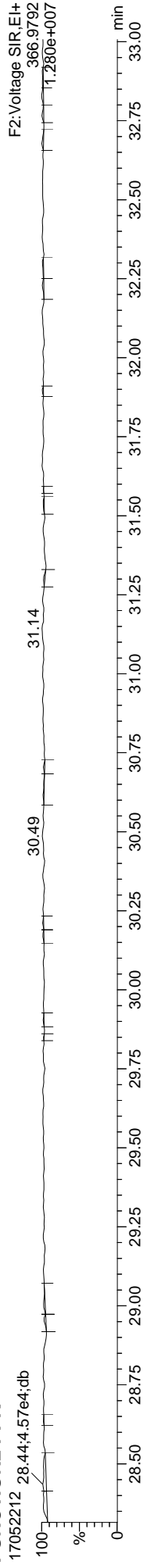
Total-pentadioxins



Total-pentadioxins



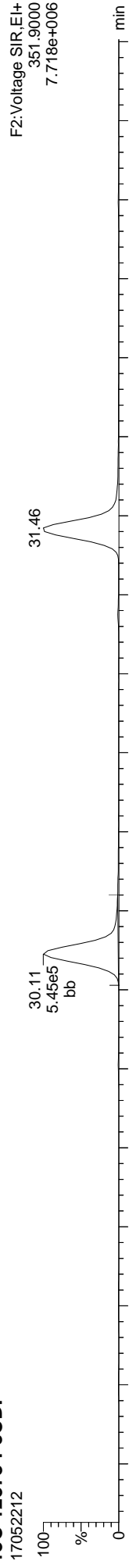
FUNCTION2 PFK



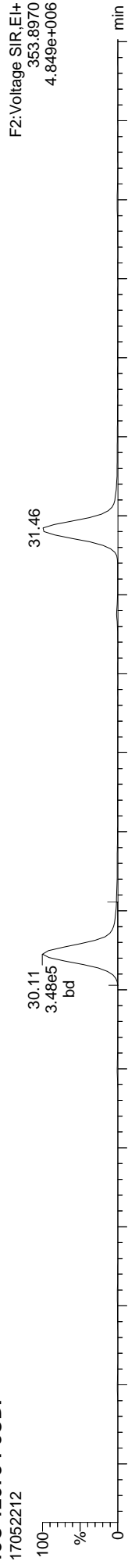
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

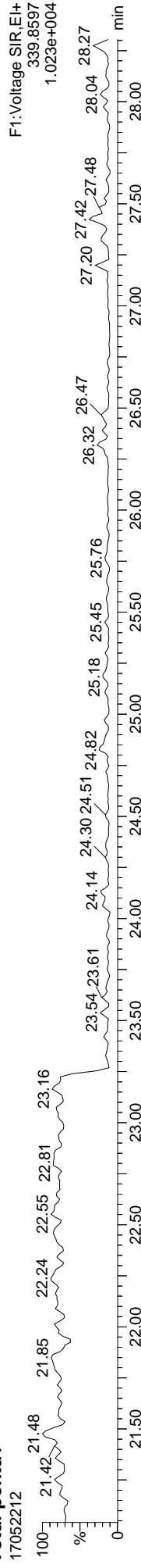
13C-12378-PeCDF



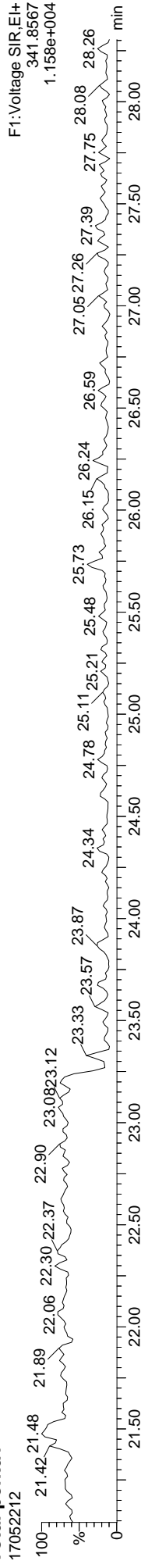
13C-12378-PeCDF



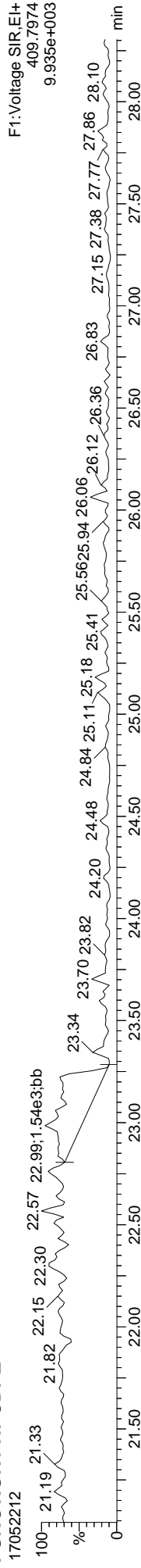
Total-penta1



Total-penta1



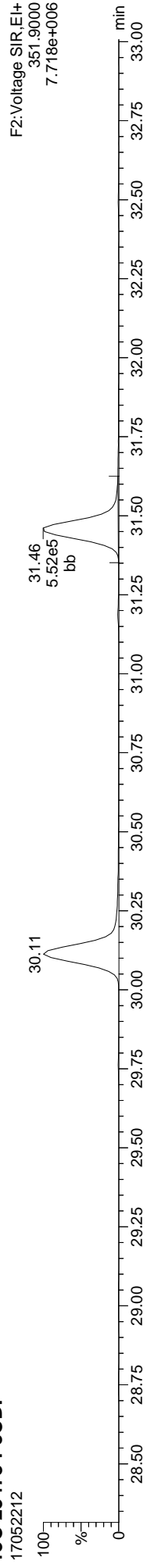
FUNCTION1 HPCDFE



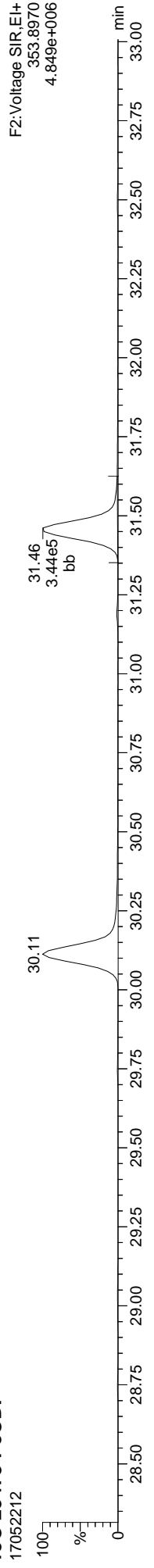
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

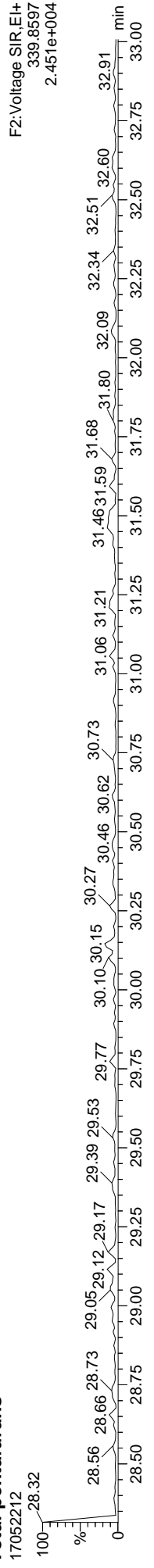
13C-23478-PeCDF



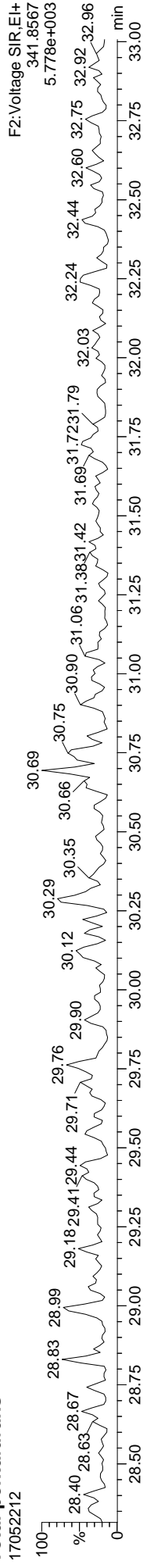
13C-23478-PeCDF



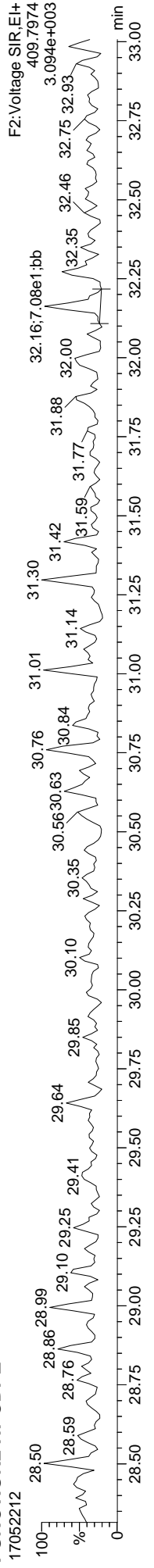
Total-pentafurans



Total-pentafurans



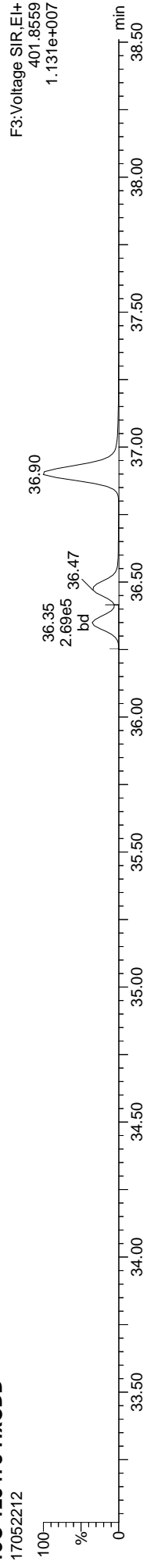
FUNCTION2 HPCDFE



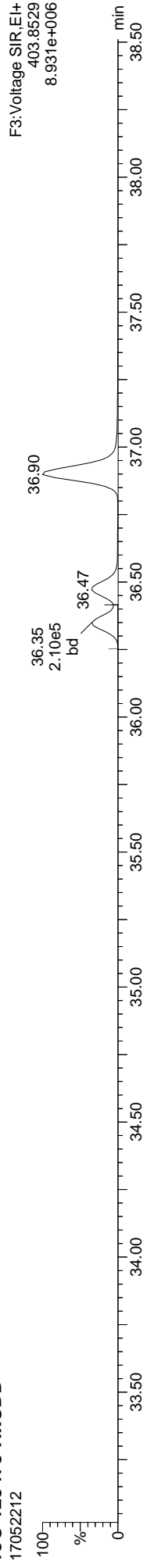
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

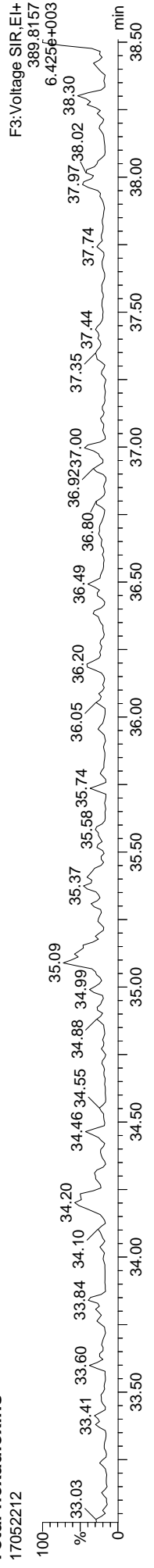
13C-123478-HxCDD



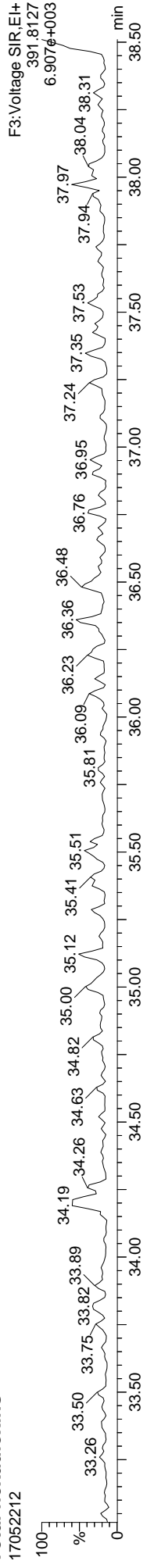
13C-123478-HxCDD



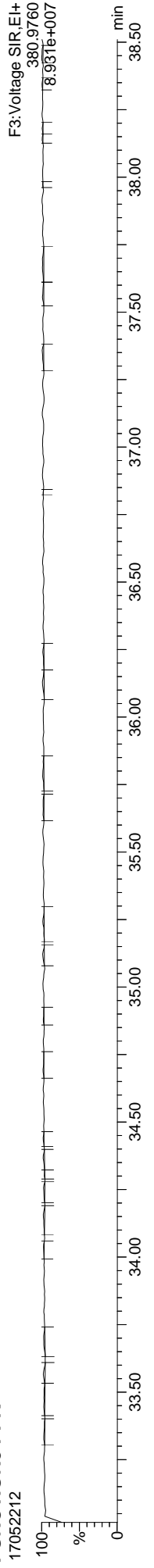
Total-hexadioxins



Total-hexadioxins



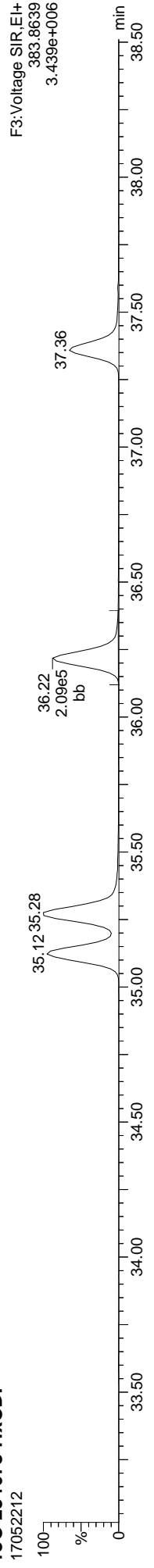
FUNCTION3 PFK



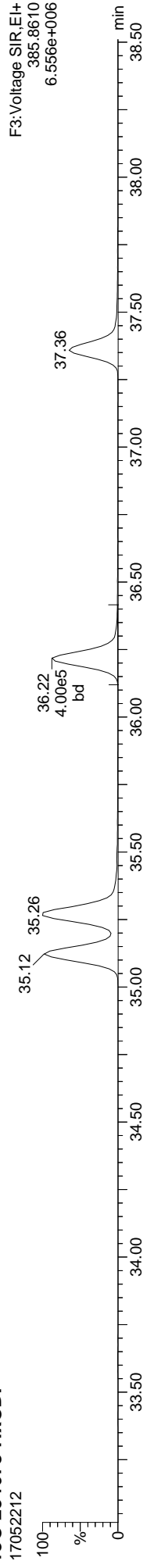
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

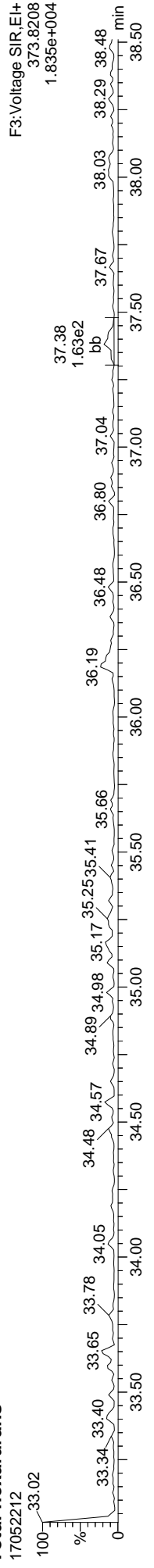
13C-234678-HxCDF



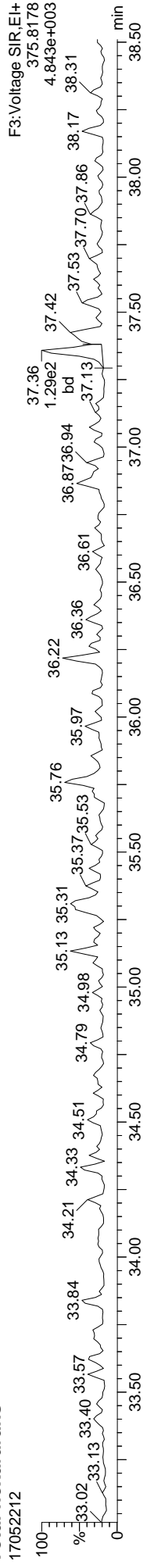
13C-234678-HxCDF



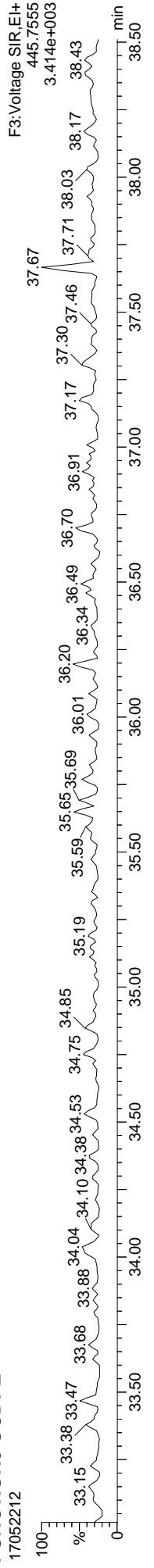
Total-hexafurans



Total-hexafurans



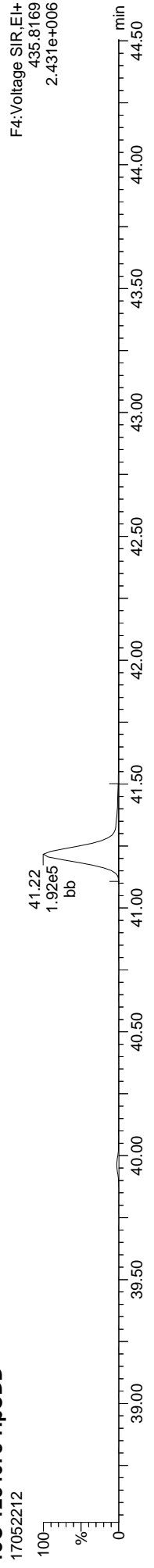
FUNCTION3 OCDPE



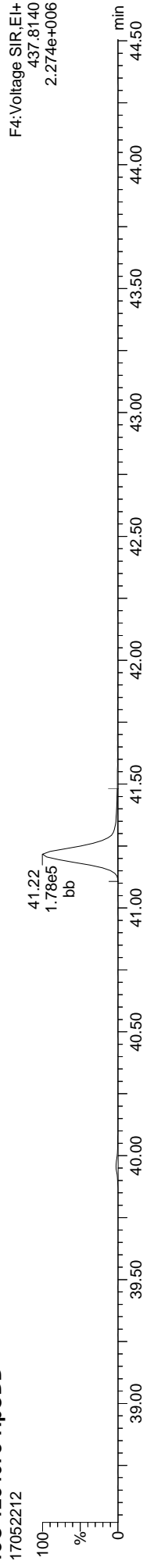
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

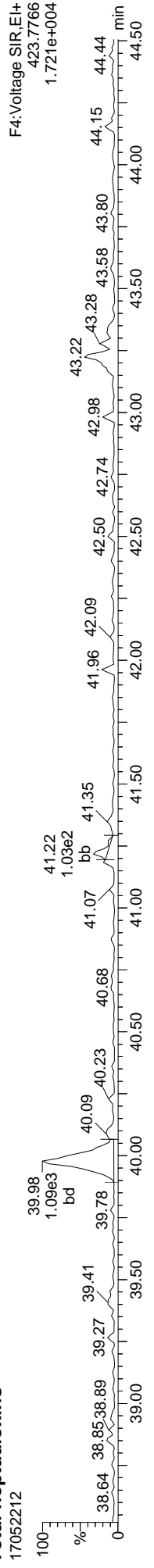
13C-1234678-HpCDD



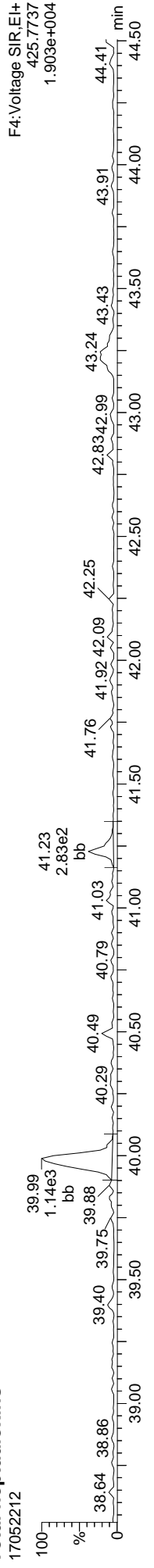
13C-1234678-HpCDD



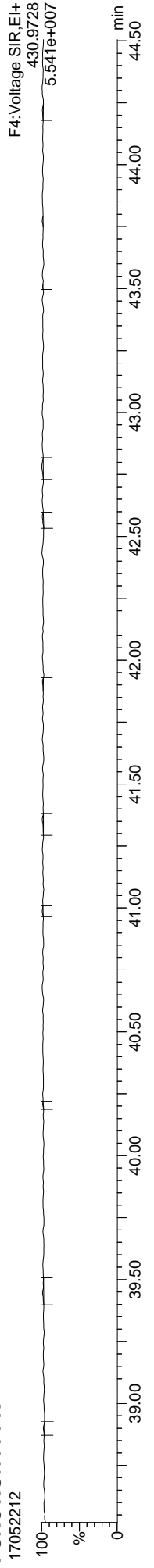
Total-heptadioxins



Total-heptadioxins



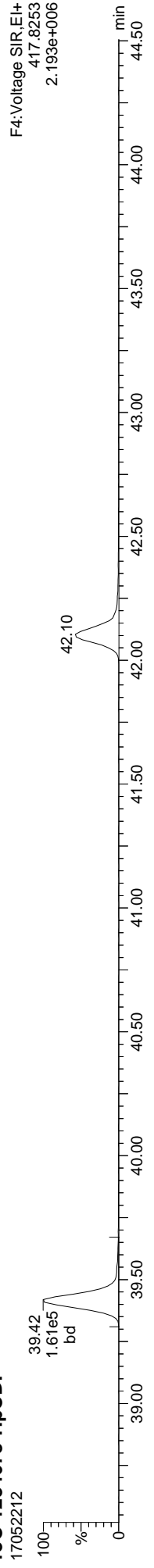
FUNCTION4 PFK



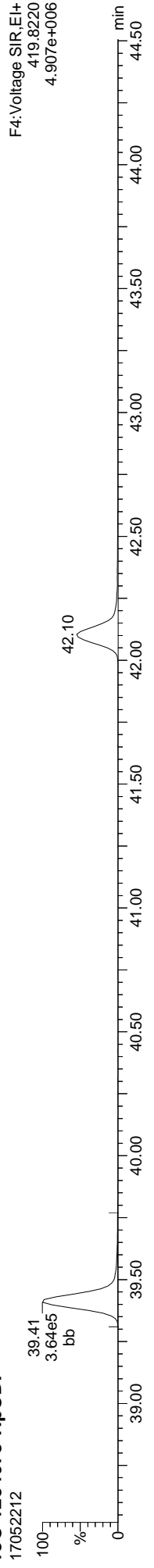
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

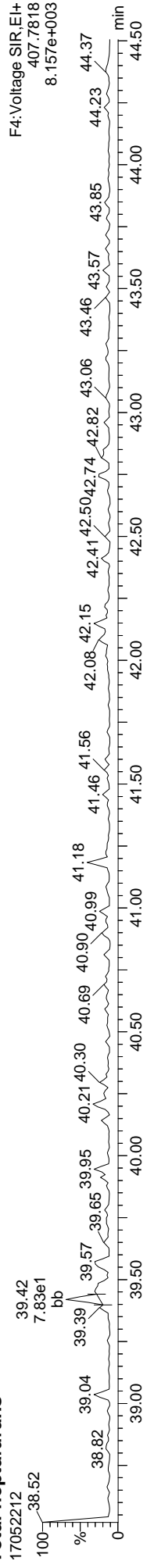
13C-1234678-HpCDF



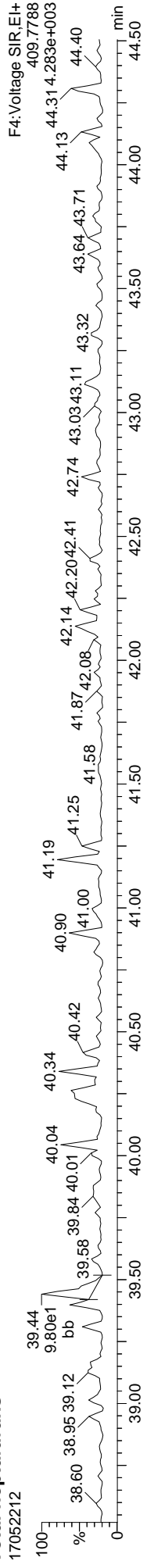
13C-1234678-HpCDF



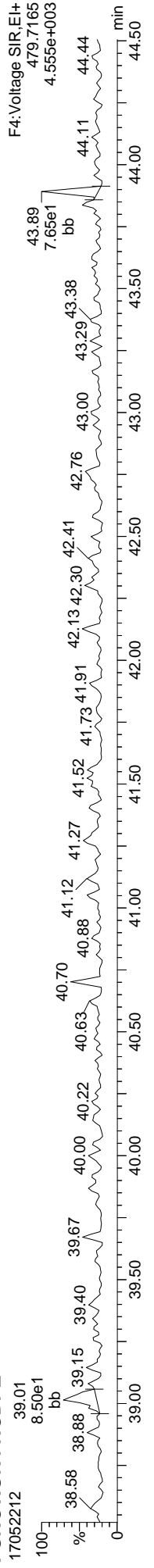
Total-heptafurans



Total-heptafurans



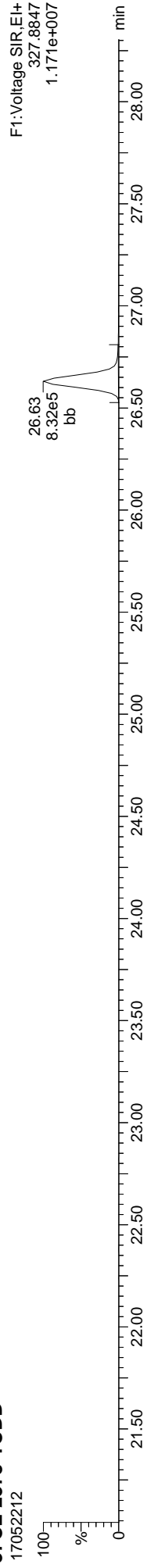
FUNCTION4 NCDPE



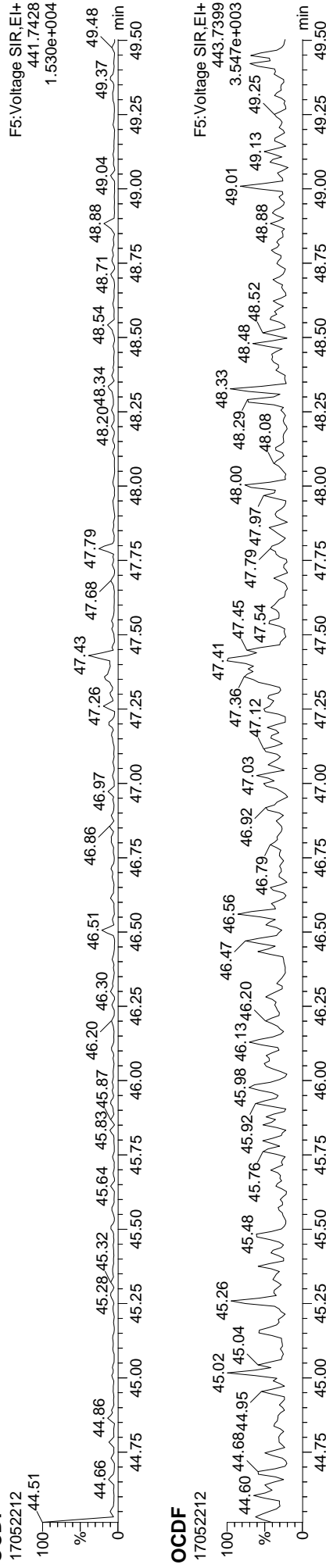
Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:49:27 Pacific Daylight Time

ID: 17D0421-07, Name: 17052212, Date: 22-May-2017, Time: 19:10:26, Conditions: AUTOSPEC01, User: PK

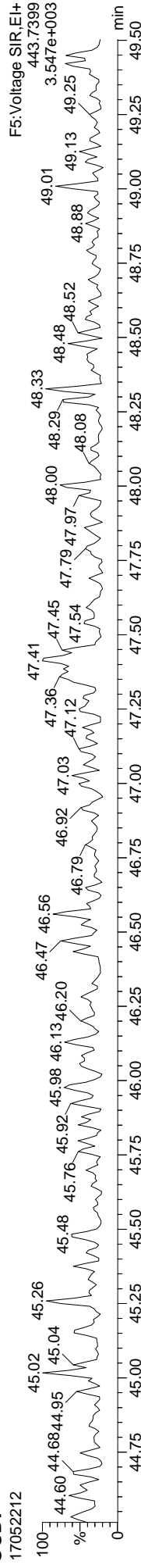
37CL-2378-TCDD



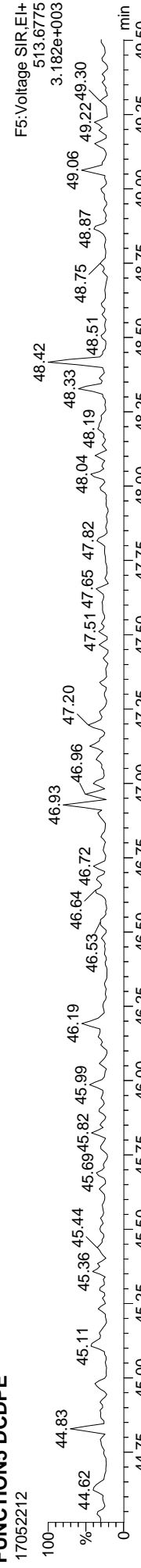
OCDF



OCDF



FUNCTION5 DCDPE





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-08 File ID: 17052215
 Sampled: 04/26/17 07:00 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 22:02
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.05 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.948	0.655-0.886		0.995	0.180	ng/kg	EMPC, J, B
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.068	0.995	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.072	4.98	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.064	4.98	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.471	1.318-1.783		4.98	0.077	ng/kg	J, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.412	1.054-1.426		4.98	0.062	ng/kg	J, B
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.078	4.98	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.081	4.98	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.109	4.98	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.088	4.98	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.471	1.054-1.426		4.98	0.117	ng/kg	EMPC, J, B
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.840	1.054-1.426		4.98	0.131	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.002	0.893-1.208		4.98	0.169	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.099	4.98	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.890	0.893-1.208		4.98	0.565	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	1.165	0.757-1.024		9.95	0.417	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.891	0.757-1.024		9.95	5.01	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.995	0.430	ng/kg
41903-57-5	Total TCDD	1	0.000			0.995	0.093	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.995	0.124	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.995	0.077	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.995	0.120	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.995	0.672	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.995	0.275	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.995	2.44	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.135
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.135



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-08</u>
Sampled:	<u>04/26/17 07:00</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052215</u>
		Analyzed:	<u>05/22/17 22:02</u>
		Initial/Final:	<u>10.05 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.792	0.655-0.886		45.1	24 - 169 %	
13C12-2,3,7,8-TCDD		0.772	0.655-0.886		45.5	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.634	1.318-1.783		37.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.586	1.318-1.783		41.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.588	1.318-1.783		40.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.512	0.434-0.587		35.4	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.513	0.434-0.587		35.2	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.514	0.434-0.587		37.8	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.545	0.434-0.587		38.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.289	1.054-1.426		40.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.359	1.054-1.426		38.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.438	0.374-0.506		36.9	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506		37.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.065	0.893-1.208		41.0	23 - 140 %	
13C12-OCDD		0.879	0.757-1.024		33.8	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			106	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-08, **Name:** 17052215, **Date:** 22-May-2017, **Time:** 22:02:20, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.003	1.001	7.240e2	7.640e2	1.018	0.948	0.770	952	1202	1.14e4	1.05e4	12.0	YES	YES	bd	bd	0.090
12378-PeCDF					0.977		1.550	931	1302								
23478-PeCDF					1.019		1.550	931	1302								
123478-HxCDF	35.132	1.000	2.165e2	1.533e2	1.150	1.412	1.240	898	1457	5.86e3	5.45e3	6.5	YES	NO	dd	bd	0.031
234678-HxCDF					1.188		1.240	898	1457								
123678-HxCDF					1.100		1.240	898	1457								
123789-HxCDF					1.116		1.240	898	1457								
1234678-HpCDF	39.429	1.001	4.829e2	4.821e2	1.238	1.002	1.050	560	995	6.38e3	7.27e3	11.4	YES	NO	MM	MM	0.085
1234789-HpCDF					1.257		1.050	560	995								
OCDF	47.384	1.007	6.459e2	5.546e2	1.321	1.165	0.890	450	842	7.36e3	5.55e3	16.4	YES	YES	MM	MM	0.210
2378-TCDD					1.244		0.770	938	733								
12378-PeCDD	31.713	1.000	1.802e2	1.225e2	1.058	1.471	1.550	1106	791	3.81e3	2.49e3	3.4	YES	NO	bb	bb	0.039
123478-HxCDD					1.119		1.240	992	865								
123678-HxCDD	36.492	1.001	1.667e2	3.535e2	1.040	0.471	1.240	992	865	3.54e3	6.09e3	3.6	YES	YES	bb	db	0.059
123789-HxCDD	36.897	1.012	2.400e2	2.856e2	0.981	0.840	1.240	992	865	5.28e3	5.10e3	5.3	YES	YES	bb	bb	0.066
1234678-HpCDD	41.238	1.001	9.949e2	1.118e3	1.132	0.890	1.050	1011	1044	1.16e4	1.84e4	11.5	YES	YES	bb	bb	0.284
OCDD	47.079	1.000	5.739e3	6.445e3	1.117	0.891	0.890	462	401	5.87e4	7.30e4	127.1	YES	NO	bb	bd	2.516
13C-2378-TCDF	25.973	1.007	7.157e5	9.036e5	1.685	0.792	0.770	6373	2925	1.03e7	1.29e7	1609.3	YES	NO	bb	bb	45.074
13C-12378-PeCDF	30.101	1.167	8.486e5	5.194e5	1.706	1.634	1.550	2974	2512	1.18e7	7.31e6	3958.7	YES	NO	bd	bb	37.611
13C-23478-PeCDF	31.450	1.219	8.741e5	5.512e5	1.632	1.586	1.550	2974	2512	1.24e7	7.81e6	4184.3	YES	NO	bb	bb	40.953
13C-123478-HxCDF	35.121	0.952	3.500e5	6.834e5	1.682	0.512	0.510	5166	5414	4.93e6	9.64e6	954.2	YES	NO	bd	bd	35.363
13C-123678-HxCDF	35.264	0.956	4.038e5	7.867e5	1.945	0.513	0.510	5166	5414	5.53e6	1.05e7	1071.3	YES	NO	bd	dd	35.225
13C-234678-HxCDF	36.207	0.981	3.524e5	6.861e5	1.582	0.514	0.510	5166	5414	4.94e6	9.49e6	956.4	YES	NO	bb	bb	37.783
13C-123789-HxCDF	37.358	1.013	3.041e5	5.574e5	1.291	0.545	0.510	5166	5414	4.09e6	7.55e6	792.2	YES	NO	bd	bb	38.423
13C-1234678-HpCDF	39.407	1.068	2.789e5	6.367e5	1.427	0.438	0.440	1876	2661	3.81e6	8.48e6	2029.9	YES	NO	bd	bd	36.945
13C-1234789-HpCDF	42.093	1.141	1.950e5	4.358e5	0.957	0.447	0.440	1876	2661	2.30e6	5.14e6	1227.7	YES	NO	bb	bb	37.943
13C-1234-TCDD	25.794	0.000	9.385e5	1.194e6	1.000	0.786	0.770	2759	1393	1.40e7	1.79e7	5068.8	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.601	1.031	3.685e5	4.775e5	0.873	0.772	0.770	2759	1393	5.16e6	6.74e6	1869.7	YES	NO	bb	bb	45.457
13C-12378-PeCDD	31.702	1.229	4.513e5	2.842e5	0.860	1.588	1.550	1141	1214	6.35e6	3.89e6	5569.2	YES	NO	bd	bd	40.101
13C-123478-HxCDD	36.338	0.985	4.391e5	3.407e5	1.114	1.289	1.240	1873	1662	6.34e6	4.88e6	3386.0	YES	NO	bd	bd	40.303
13C-123678-HxCDD	36.470	0.988	4.885e5	3.596e5	1.258	1.359	1.240	1873	1662	6.62e6	5.09e6	3535.2	YES	NO	db	db	38.795
13C-1234678-HpCDD	41.205	1.117	3.390e5	3.183e5	0.924	1.065	1.050	2113	2085	4.30e6	4.02e6	2033.8	YES	NO	bb	bb	40.967
13C-OCDD	47.079	1.276	4.056e5	4.616e5	0.738	0.879	0.890	1407	1565	3.96e6	4.43e6	2817.9	YES	NO	bb	bd	67.613
13C-123789-HxCDD	36.897	0.000	9.771e5	7.601e5	1.000	1.286	1.240	1873	1662	1.37e7	1.09e7	7320.3	YES	NO	bb	bb	100.000
Total-tetrafurans			1.401e3		1.018			952		2.33e4							0.216

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

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld

Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					650		0.00e0								
Total-pentafurans			4.524e2		0.998			931		1.12e4								0.062
Total-hexafurans			3.764e2		1.138			898		1.01e4								0.060
Total-heptafurans			7.207e2		1.248			560		1.22e4								0.138
Total-Furans			3.693e3		1.138			952		6.60e4								0.695
Total-tetradioxins			1.798e2		1.244			938		3.17e3								0.047
Total-pentadioxins			1.802e2		1.058			1106		3.81e3								0.039
Total-hexadioxins			1.624e3		1.047			992		2.94e4								0.338
Total-heptadioxins			4.520e3		1.132			1011		6.08e4								1.227
Total-Dioxins			1.236e4		1.099			938		1.58e5								4.216
Total-TEQ			1.605e4					938		2.24e5								4.911
37CL-2378-TCDD	26.631	1.032	9.207e5		1.021			1615		1.27e7		7865.1	YES		bb			42.276
FUNCTION1 PFK			0.000e0					881541		0.00e0								0.000
FUNCTION2 PFK			8.078e3					137449		4.73e5								0.000
FUNCTION3 PFK			3.481e5					624782		8.13e6								0.000
FUNCTION4 PFK			5.685e5					467325		1.37e7								
FUNCTION5 PFK			4.078e5					273182		1.33e7								
FUNCTION1 HXCD...			8.556e3					485		1.17e5								0.000
FUNCTION1 HPCD...			5.614e2					864		1.12e4								0.000
FUNCTION2 HPCD...			0.000e0					529		0.00e0								
FUNCTION3 OCDPE			0.000e0					356		0.00e0								
FUNCTION4 NCDPE			7.370e1					409		2.05e3								0.000
FUNCTION5 DCDPE			0.000e0					329		0.00e0								

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	7.240e2	7.640e2	1.018	0.95	0.77	12.0	YES	YES	bd	bd	0.090
2	Total-tetrafurans	23.36	2.794e2	5.584e2	1.018	0.50	0.77	3.9	YES	YES	bb	bd	0.051
3	Total-tetrafurans	22.49	1.515e2	2.628e2	1.018	0.58	0.77	3.2	YES	YES	bb	bd	0.025
4	Total-tetrafurans	26.21	2.457e2	5.765e2	1.018	0.43	0.77	5.4	YES	YES	db	db	0.050

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.98	3.219e2	2.714e2	0.998	1.19	1.55	8.1	YES	YES	db	MM	0.043
2	Total-pentafurans	28.94	1.305e2	1.411e2	0.998	0.92	1.55	3.9	YES	YES	bd	bd	0.019

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.64	1.598e2	1.818e2	1.138	0.88	1.24	4.8	YES	YES	bb	bb	0.029
2	123478-HxCDF	35.13	2.165e2	1.533e2	1.150	1.41	1.24	6.5	YES	NO	dd	bd	0.031

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	40.20	2.378e2	2.759e2	1.248	0.86	1.05	10.3	YES	YES	bd	bd	0.053
2	1234678-HpCDF	39.43	4.829e2	4.821e2	1.238	1.00	1.05	11.4	YES	NO	MM	MM	0.085

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	7.240e2	7.640e2	1.018	0.95	0.77	12.0	YES	YES	bd	bd	0.090
2	Total-tetrafurans	23.36	2.794e2	5.584e2	1.018	0.50	0.77	3.9	YES	YES	bb	bd	0.051
3	Total-tetrafurans	22.49	1.515e2	2.628e2	1.018	0.58	0.77	3.2	YES	YES	bb	bd	0.025
4	Total-Furans	21.31	9.749e1	7.049e1	1.138	1.38	0.77	2.0	NO	YES	bb	bb	0.009
5	Total-tetrafurans	26.21	2.457e2	5.765e2	1.018	0.43	0.77	5.4	YES	YES	db	db	0.050
6	Total-pentafurans	28.98	3.219e2	2.714e2	0.998	1.19	1.55	8.1	YES	YES	db	MM	0.043
7	Total-pentafurans	28.94	1.305e2	1.411e2	0.998	0.92	1.55	3.9	YES	YES	bd	bd	0.019
8	Total-hexafurans	33.64	1.598e2	1.818e2	1.138	0.88	1.24	4.8	YES	YES	bb	bb	0.029
9	123478-HxCDF	35.13	2.165e2	1.533e2	1.150	1.41	1.24	6.5	YES	NO	dd	bd	0.031
10	Total-heptafurans	40.20	2.378e2	2.759e2	1.248	0.86	1.05	10.3	YES	YES	bd	bd	0.053
11	1234678-HpCDF	39.43	4.829e2	4.821e2	1.238	1.00	1.05	11.4	YES	NO	MM	MM	0.085
12	OCDF	47.38	6.459e2	5.546e2	1.321	1.16	0.89	16.4	YES	YES	MM	MM	0.210

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	23.78	1.798e2	3.144e2	1.244	0.57	0.77	3.4	YES	YES	bb	bb	0.047

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.71	1.802e2	1.225e2	1.058	1.47	1.55	3.4	YES	NO	bb	bb	0.039

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.49	1.667e2	3.535e2	1.040	0.47	1.24	3.6	YES	YES	bb	db	0.059
2	Total-hexadioxins	35.00	9.821e1	1.233e2	1.047	0.80	1.24	3.4	YES	YES	bb	bb	0.026
3	Total-hexadioxins	34.87	4.057e2	1.078e2	1.047	3.76	1.24	5.9	YES	YES	MM	bb	0.060
4	Total-hexadioxins	34.42	2.036e2	1.667e2	1.047	1.22	1.24	3.4	YES	NO	db	bb	0.043
5	Total-hexadioxins	34.21	5.100e2	1.985e2	1.047	2.57	1.24	8.1	YES	YES	bd	bb	0.083
6	123789-HxCDD	36.90	2.400e2	2.856e2	0.981	0.84	1.24	5.3	YES	YES	bb	bb	0.066

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.24	9.949e2	1.118e3	1.132	0.89	1.05	11.5	YES	YES	bb	bb	0.284
2	Total-heptadioxins	39.97	3.525e3	3.493e3	1.132	1.01	1.05	48.7	YES	NO	bb	bb	0.943

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	23.78	1.798e2	3.144e2	1.244	0.57	0.77	3.4	YES	YES	bb	bb	0.047
2	Total-Dioxins	22.79	1.164e2	3.409e2	1.099	0.34	0.77	2.5	NO	YES	bb	bb	0.049
3	12378-PeCDD	31.71	1.802e2	1.225e2	1.058	1.47	1.55	3.4	YES	NO	bb	bb	0.039
4	123678-HxCDD	36.49	1.667e2	3.535e2	1.040	0.47	1.24	3.6	YES	YES	bb	db	0.059
5	Total-hexadioxins	35.00	9.821e1	1.233e2	1.047	0.80	1.24	3.4	YES	YES	bb	bb	0.026
6	Total-hexadioxins	34.87	4.057e2	1.078e2	1.047	3.76	1.24	5.9	YES	YES	MM	bb	0.060
7	Total-hexadioxins	34.42	2.036e2	1.667e2	1.047	1.22	1.24	3.4	YES	NO	db	bb	0.043
8	Total-hexadioxins	34.21	5.100e2	1.985e2	1.047	2.57	1.24	8.1	YES	YES	bd	bb	0.083
9	123789-HxCDD	36.90	2.400e2	2.856e2	0.981	0.84	1.24	5.3	YES	YES	bb	bb	0.066
10	1234678-HpCDD	41.24	9.949e2	1.118e3	1.132	0.89	1.05	11.5	YES	YES	bb	bb	0.284
11	Total-heptadioxins	39.97	3.525e3	3.493e3	1.132	1.01	1.05	48.7	YES	NO	bb	bb	0.943
12	OCDD	47.08	5.739e3	6.445e3	1.117	0.89	0.89	127.1	YES	NO	bb	bd	2.516

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	7.240e2	7.640e2	1.018	0.95	0.77	12.0	YES	YES	bd	bd	0.090
2	Total-tetrafurans	23.36	2.794e2	5.584e2	1.018	0.50	0.77	3.9	YES	YES	bb	bd	0.051
3	Total-tetrafurans	22.49	1.515e2	2.628e2	1.018	0.58	0.77	3.2	YES	YES	bb	bd	0.025
4	Total-Furans	21.31	9.749e1	7.049e1	1.138	1.38	0.77	2.0	NO	YES	bb	bb	0.009
5	Total-tetrafurans	26.21	2.457e2	5.765e2	1.018	0.43	0.77	5.4	YES	YES	db	db	0.050
6	Total-pentafurans	28.98	3.219e2	2.714e2	0.998	1.19	1.55	8.1	YES	YES	db	MM	0.043
7	Total-pentafurans	28.94	1.305e2	1.411e2	0.998	0.92	1.55	3.9	YES	YES	bd	bd	0.019
8	Total-hexafurans	33.64	1.598e2	1.818e2	1.138	0.88	1.24	4.8	YES	YES	bb	bb	0.029
9	123478-HxCDF	35.13	2.165e2	1.533e2	1.150	1.41	1.24	6.5	YES	NO	dd	bd	0.031
10	Total-heptafurans	40.20	2.378e2	2.759e2	1.248	0.86	1.05	10.3	YES	YES	bd	bd	0.053
11	1234678-HpCDF	39.43	4.829e2	4.821e2	1.238	1.00	1.05	11.4	YES	NO	MM	MM	0.085
12	OCDF	47.38	6.459e2	5.546e2	1.321	1.16	0.89	16.4	YES	YES	MM	MM	0.210
13	Total-tetradoxins	23.78	1.798e2	3.144e2	1.244	0.57	0.77	3.4	YES	YES	bb	bb	0.047
14	Total-Dioxins	22.79	1.164e2	3.409e2	1.099	0.34	0.77	2.5	NO	YES	bb	bb	0.049
15	12378-PeCDD	31.71	1.802e2	1.225e2	1.058	1.47	1.55	3.4	YES	NO	bb	bb	0.039
16	123678-HxCDD	36.49	1.667e2	3.535e2	1.040	0.47	1.24	3.6	YES	YES	bb	db	0.059
17	Total-hexadoxins	35.00	9.821e1	1.233e2	1.047	0.80	1.24	3.4	YES	YES	bb	bb	0.026
18	Total-hexadoxins	34.87	4.057e2	1.078e2	1.047	3.76	1.24	5.9	YES	YES	MM	bb	0.060
19	Total-hexadoxins	34.42	2.036e2	1.667e2	1.047	1.22	1.24	3.4	YES	NO	db	bb	0.043
20	Total-hexadoxins	34.21	5.100e2	1.985e2	1.047	2.57	1.24	8.1	YES	YES	bd	bb	0.083
21	123789-HxCDD	36.90	2.400e2	2.856e2	0.981	0.84	1.24	5.3	YES	YES	bb	bb	0.066
22	1234678-HpCDD	41.24	9.949e2	1.118e3	1.132	0.89	1.05	11.5	YES	YES	bb	bb	0.284
23	Total-heptadoxins	39.97	3.525e3	3.493e3	1.132	1.01	1.05	48.7	YES	NO	bb	bb	0.943
24	OCDD	47.08	5.739e3	6.445e3	1.117	0.89	0.89	127.1	YES	NO	bb	bd	2.516

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.07	1.475e3					0.8	NO		bb		0.000
2	FUNCTION2 PFK	31.77	1.977e3					0.8	NO		bb		0.000
3	FUNCTION2 PFK	31.09	1.035e3					0.7	NO		bb		0.000
4	FUNCTION2 PFK	29.20	3.590e3					1.1	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.41	5.116e4					2.2	NO		bb		0.000
2	FUNCTION3 PFK	38.23	2.102e4					1.5	NO		bb		0.000
3	FUNCTION3 PFK	37.52	5.064e4					1.8	NO		bb		0.000
4	FUNCTION3 PFK	35.83	6.086e4					1.9	NO		bb		0.000
5	FUNCTION3 PFK	35.45	1.491e4					1.3	NO		bb		0.000
6	FUNCTION3 PFK	35.26	3.614e4					1.3	NO		bb		0.000
7	FUNCTION3 PFK	35.19	1.134e5					3.0	YES		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.63	2.266e4					1.7	NO		bb		
2	FUNCTION4 PFK	40.45	6.377e3					0.7	NO		bb		
3	FUNCTION4 PFK	40.28	1.738e3					0.3	NO		bb		
4	FUNCTION4 PFK	40.02	3.148e4					1.2	NO		bb		
5	FUNCTION4 PFK	39.62	2.073e4					1.2	NO		bb		
6	FUNCTION4 PFK	39.48	4.747e4					1.6	NO		bb		
7	FUNCTION4 PFK	39.11	4.457e3					0.5	NO		bb		
8	FUNCTION4 PFK	38.91	2.464e4					1.1	NO		bb		
9	FUNCTION4 PFK	38.60	1.661e4					1.1	NO		bb		
10	FUNCTION4 PFK	44.37	3.896e4					2.1	NO		bb		
11	FUNCTION4 PFK	44.26	4.180e4					1.8	NO		bb		
12	FUNCTION4 PFK	43.96	2.782e4					1.1	NO		bb		
13	FUNCTION4 PFK	43.84	1.532e4					1.1	NO		bb		
14	FUNCTION4 PFK	43.50	1.287e4					1.2	NO		bb		
15	FUNCTION4 PFK	43.17	3.663e4					1.6	NO		bb		
16	FUNCTION4 PFK	42.95	3.585e4					1.6	NO		bb		
17	FUNCTION4 PFK	42.18	9.291e3					0.9	NO		db		
18	FUNCTION4 PFK	42.15	2.170e4					1.3	NO		dd		
19	FUNCTION4 PFK	42.04	2.132e4					1.0	NO		bd		
20	FUNCTION4 PFK	41.75	4.751e4					1.3	NO		db		
21	FUNCTION4 PFK	41.59	3.774e4					1.3	NO		bd		
22	FUNCTION4 PFK	41.40	1.358e4					1.0	NO		bb		
23	FUNCTION4 PFK	41.18	9.078e3					0.9	NO		bb		
24	FUNCTION4 PFK	40.95	8.338e3					0.7	NO		bb		
25	FUNCTION4 PFK	40.83	1.451e4					1.0	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.14	5.412e3					1.3	NO		bb		
2	FUNCTION5 PFK	46.06	3.672e3					0.8	NO		bb		
3	FUNCTION5 PFK	45.94	2.915e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.90	8.751e3					1.1	NO		bb		
5	FUNCTION5 PFK	45.76	5.442e3					0.7	NO		bb		
6	FUNCTION5 PFK	45.54	8.351e2					0.3	NO		bb		
7	FUNCTION5 PFK	45.48	6.943e3					1.0	NO		db		
8	FUNCTION5 PFK	45.45	1.649e4					1.4	NO		bd		
9	FUNCTION5 PFK	45.36	3.818e3					0.8	NO		bb		
10	FUNCTION5 PFK	45.32	2.681e3					0.5	NO		bb		
11	FUNCTION5 PFK	45.19	2.682e3					0.6	NO		bb		
12	FUNCTION5 PFK	45.09	4.329e3					0.8	NO		bb		
13	FUNCTION5 PFK	45.04	2.276e3					0.6	NO		bb		
14	FUNCTION5 PFK	44.87	2.457e3					0.6	NO		bb		
15	FUNCTION5 PFK	44.71	1.233e4					1.2	NO		bb		
16	FUNCTION5 PFK	47.99	1.239e4					1.4	NO		bb		
17	FUNCTION5 PFK	47.87	3.684e3					0.8	NO		bb		
18	FUNCTION5 PFK	47.58	8.628e3					1.0	NO		bb		
19	FUNCTION5 PFK	47.42	9.158e3					0.8	NO		bb		
20	FUNCTION5 PFK	47.30	1.827e4					1.6	NO		db		
21	FUNCTION5 PFK	47.23	6.614e3					1.0	NO		bd		
22	FUNCTION5 PFK	47.15	5.328e3					0.8	NO		bb		
23	FUNCTION5 PFK	47.10	4.943e3					0.9	NO		bb		
24	FUNCTION5 PFK	46.96	1.502e4					1.3	NO		db		
25	FUNCTION5 PFK	46.90	5.607e3					0.9	NO		bd		
26	FUNCTION5 PFK	46.85	1.080e4					1.4	NO		bb		
27	FUNCTION5 PFK	46.79	8.107e3					1.4	NO		bb		
28	FUNCTION5 PFK	46.68	4.404e3					0.9	NO		bb		
29	FUNCTION5 PFK	46.52	1.198e3					0.5	NO		bb		
30	FUNCTION5 PFK	46.41	9.476e2					0.4	NO		bb		
31	FUNCTION5 PFK	46.34	3.411e3					0.6	NO		bb		
32	FUNCTION5 PFK	49.29	8.859e3					0.8	NO		bb		
33	FUNCTION5 PFK	49.18	1.758e4					1.5	NO		bb		
34	FUNCTION5 PFK	49.07	5.956e3					1.0	NO		db		
35	FUNCTION5 PFK	49.04	4.171e3					0.9	NO		bd		
36	FUNCTION5 PFK	48.88	2.206e3					0.5	NO		bb		
37	FUNCTION5 PFK	48.83	1.347e4					1.3	NO		db		
38	FUNCTION5 PFK	48.80	4.553e3					1.0	NO		bd		
39	FUNCTION5 PFK	48.76	7.710e3					1.2	NO		db		
40	FUNCTION5 PFK	48.69	2.732e4					1.6	NO		bd		
41	FUNCTION5 PFK	48.58	4.354e3					0.8	NO		bb		
42	FUNCTION5 PFK	48.47	6.133e3					1.3	NO		db		
43	FUNCTION5 PFK	48.44	1.365e4					1.4	NO		dd		
44	FUNCTION5 PFK	48.37	9.452e3					1.2	NO		bd		
45	FUNCTION5 PFK	48.22	1.968e4					1.7	NO		db		
46	FUNCTION5 PFK	48.15	3.151e4					1.6	NO		dd		
47	FUNCTION5 PFK	48.07	2.633e4					2.0	NO		bd		
48	FUNCTION5 PFK	49.35	5.346e3					1.0	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.44	1.090e2					6.9	YES		bb		0.000
2	FUNCTION1 HXCD...	26.06	6.805e3					175.7	YES		bb		0.000
3	FUNCTION1 HXCD...	25.78	1.565e3					55.6	YES		bb		0.000
4	FUNCTION1 HXCD...	23.70	7.738e1					3.0	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.14	7.363e1					2.3	NO		bb		0.000
2	FUNCTION1 HPCD...	22.57	1.156e2					3.6	YES		bb		0.000
3	FUNCTION1 HPCD...	22.30	3.721e2					7.1	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.03	7.370e1					5.0	YES		bb		0.000

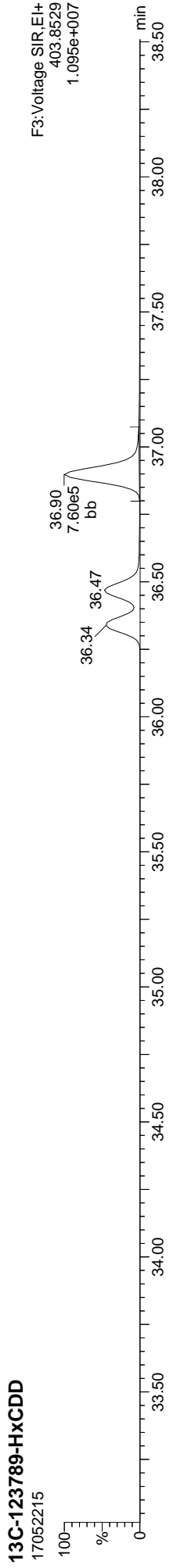
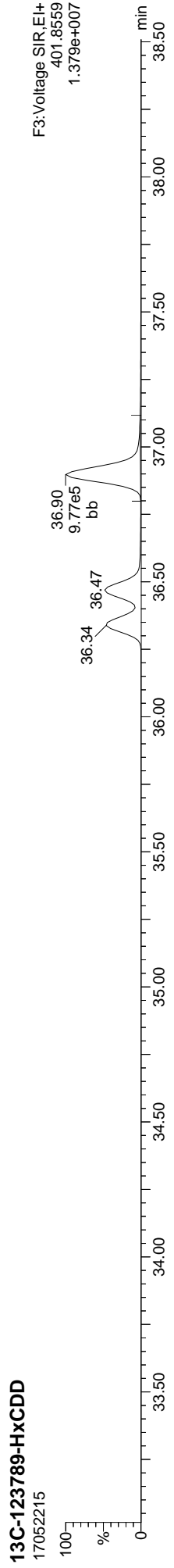
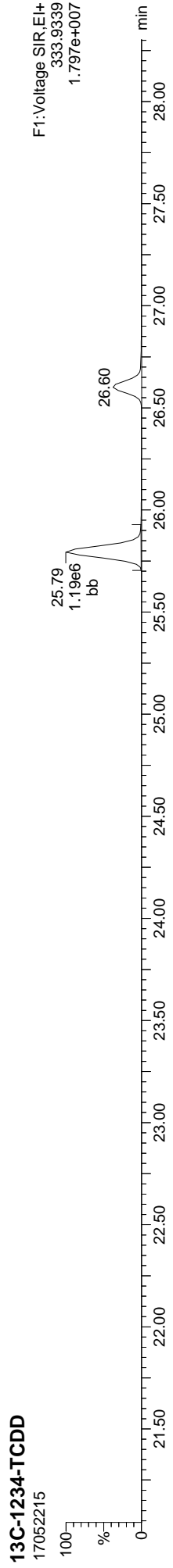
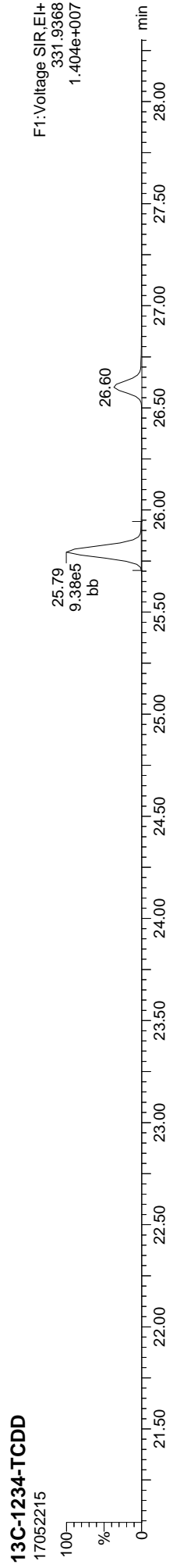
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

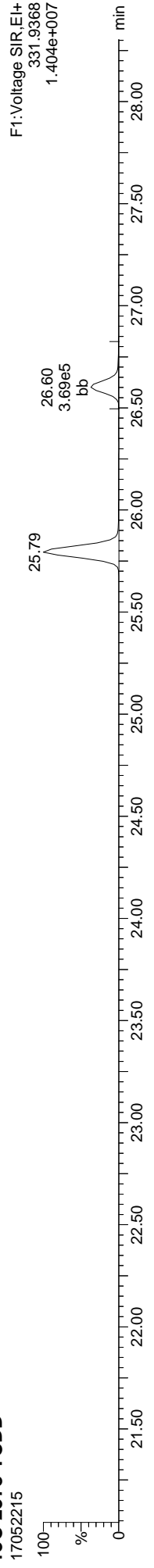
ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK



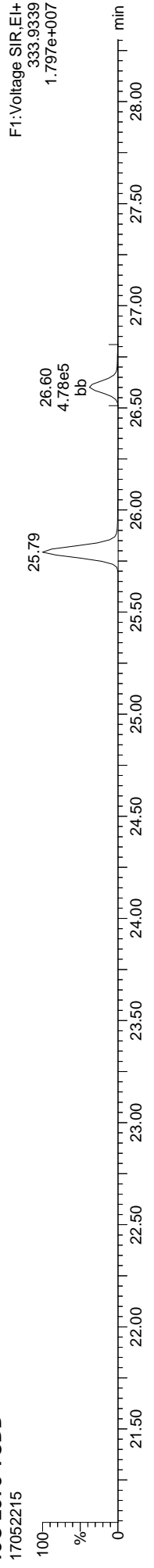
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

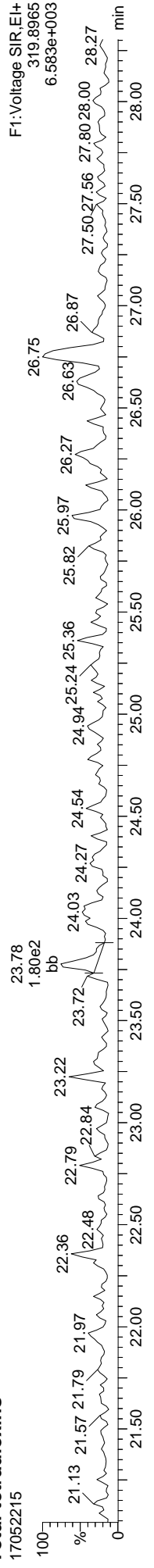
13C-2378-TCDD



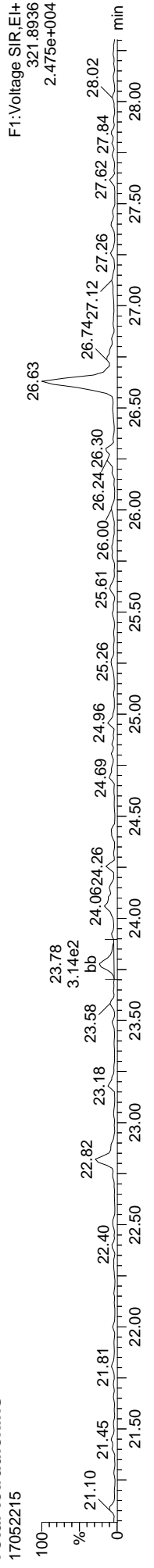
13C-2378-TCDD



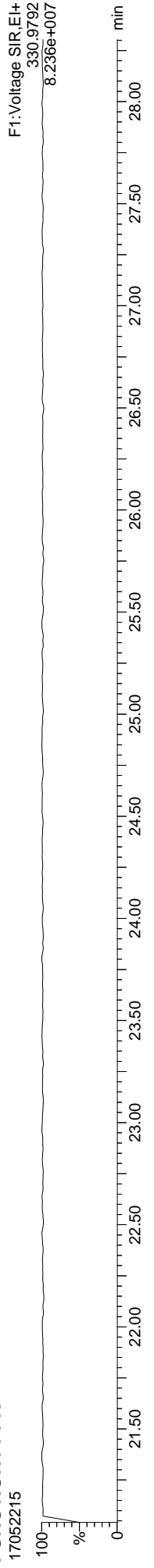
Total-tetradioxins



Total-tetradioxins



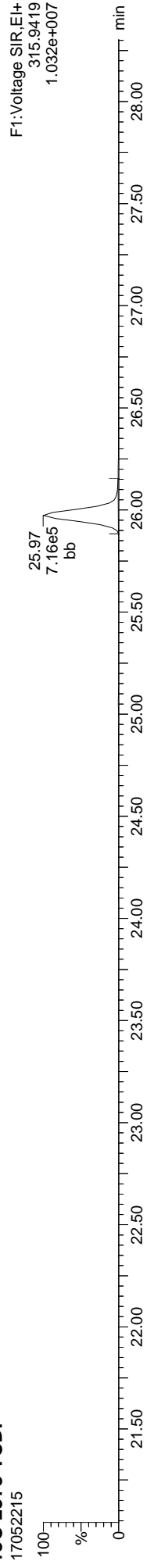
FUNCTION1 PFK



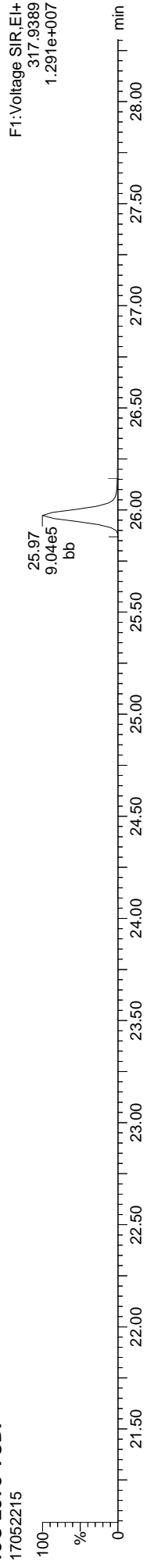
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

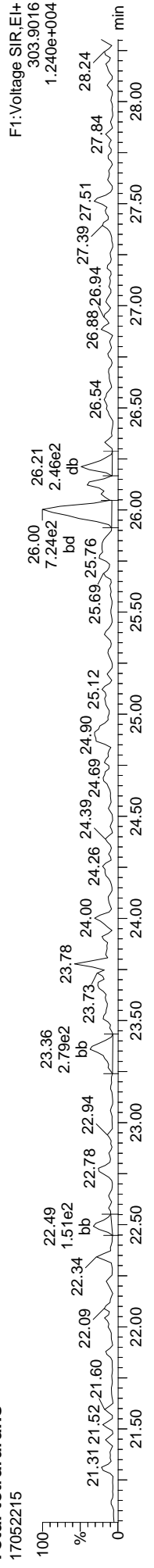
13C-2378-TCDF



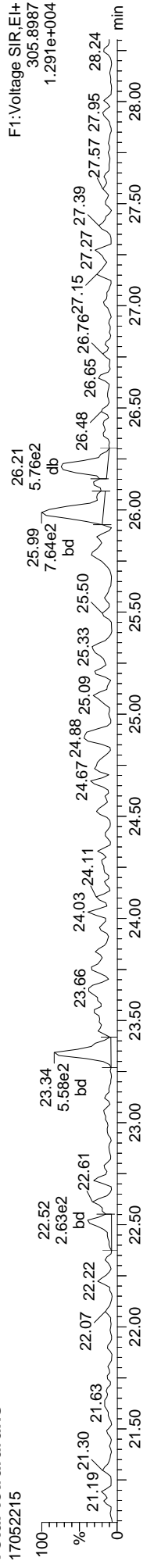
13C-2378-TCDF



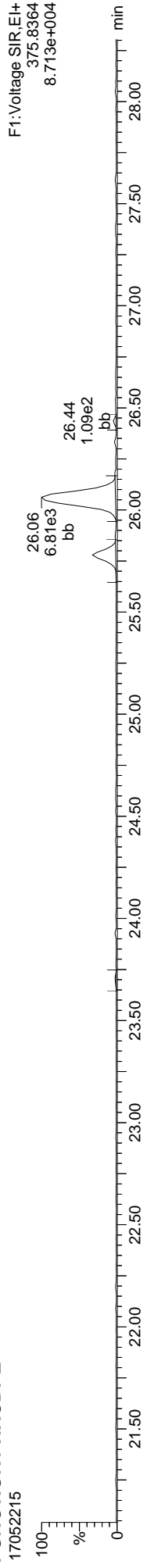
Total-tetrafurans



Total-tetrafurans



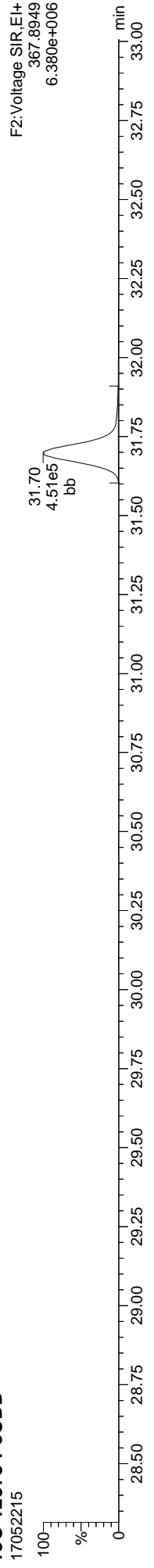
FUNCTION1 HXCDFE



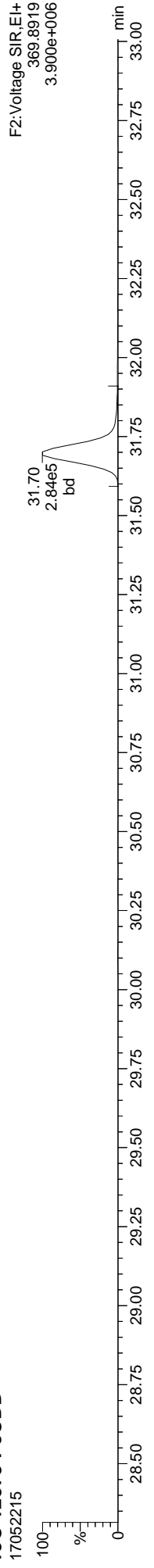
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

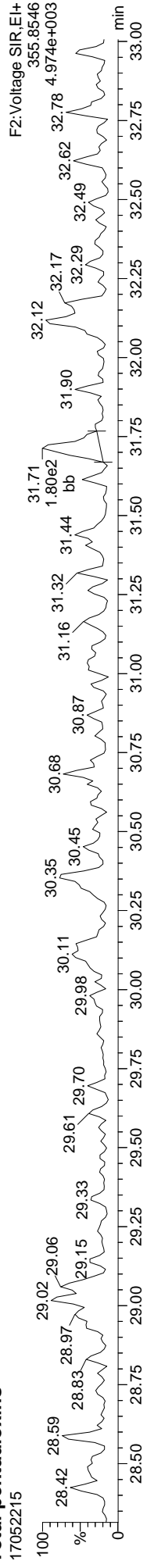
13C-12378-PeCDD



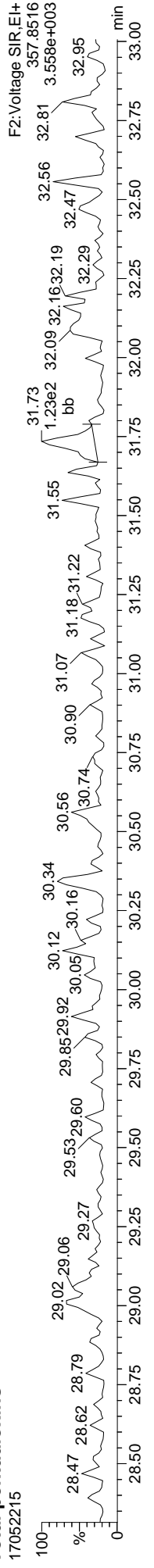
13C-12378-PeCDD



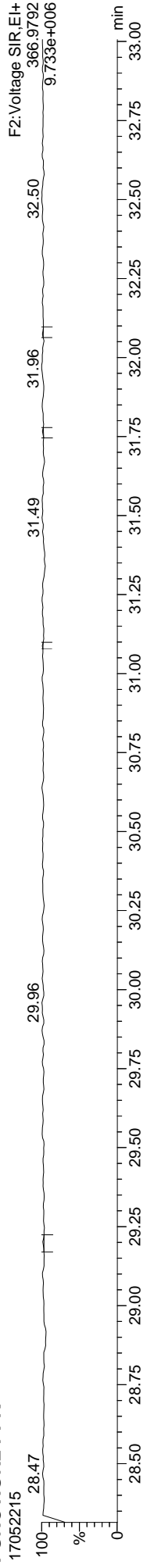
Total-pentadioxins



Total-pentadioxins



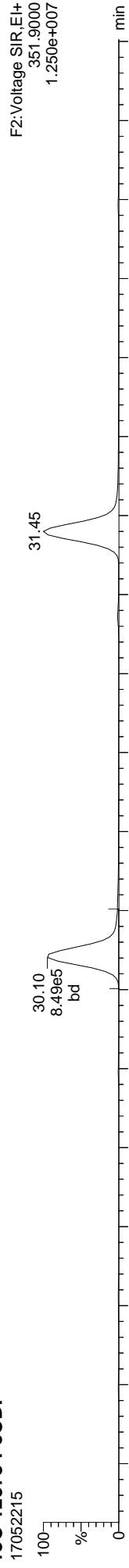
FUNCTION2 PFK



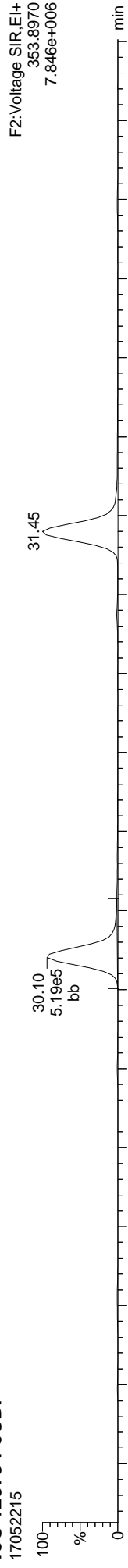
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

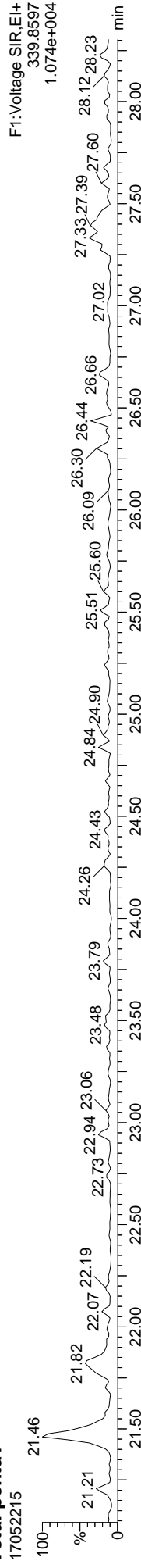
13C-12378-PeCDF



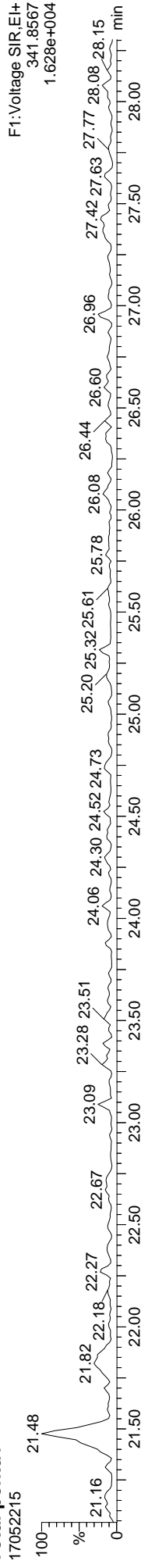
13C-12378-PeCDF



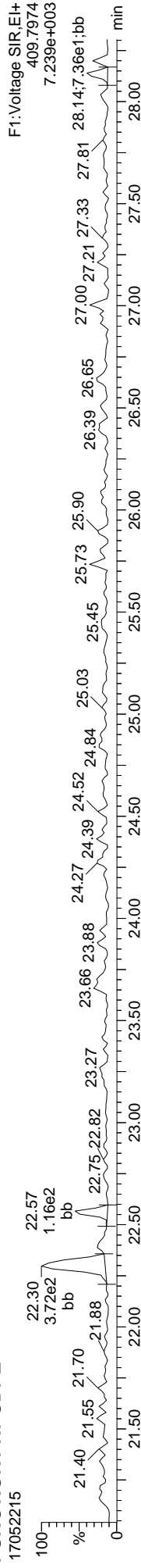
Total-penta1



Total-penta1



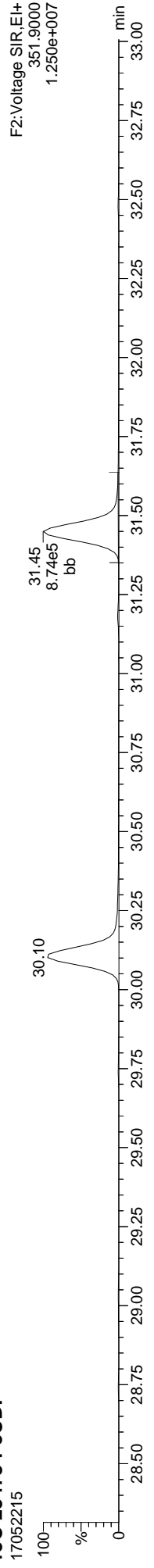
FUNCTION1 HPCDPE



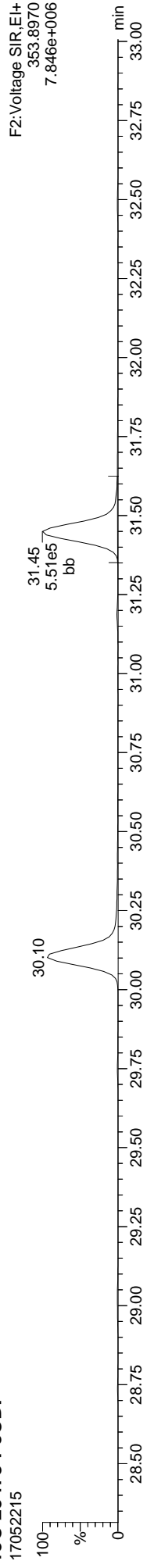
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

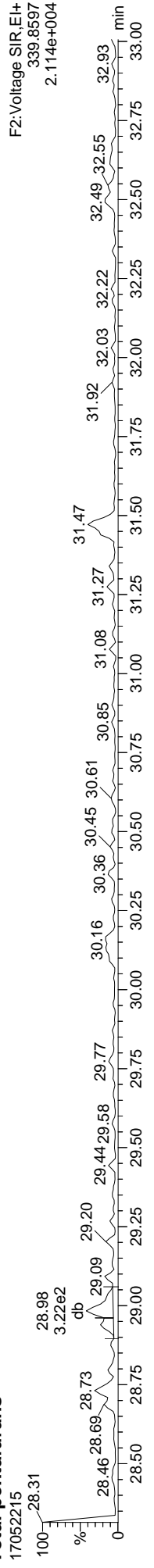
13C-23478-PeCDF



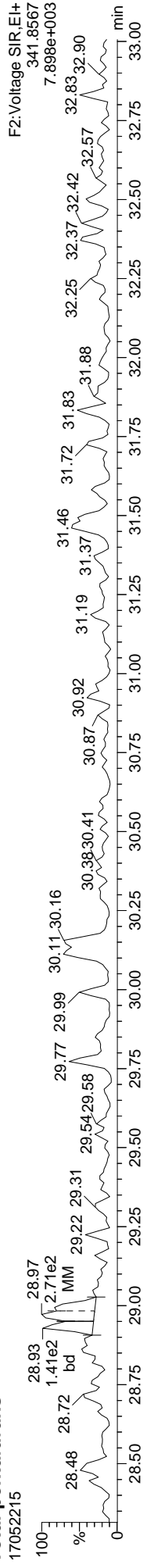
13C-23478-PeCDF



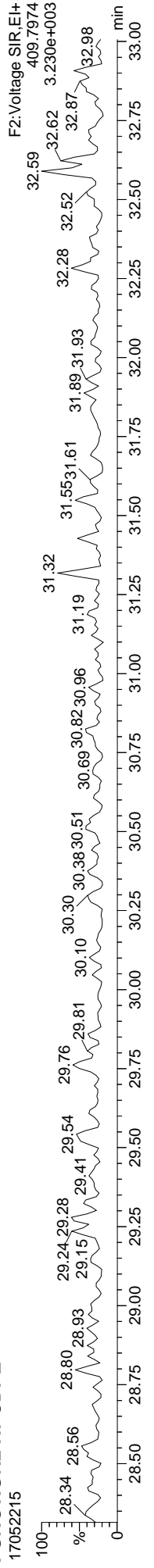
Total-pentafurans



Total-pentafurans



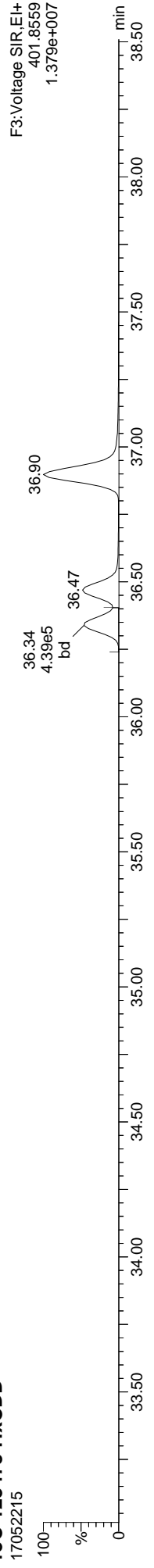
FUNCTION2 HPCDFE



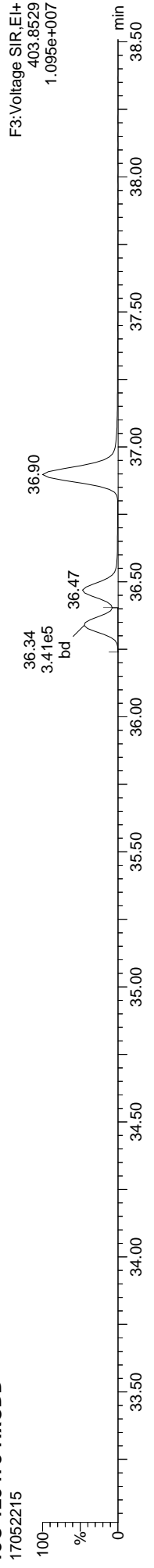
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

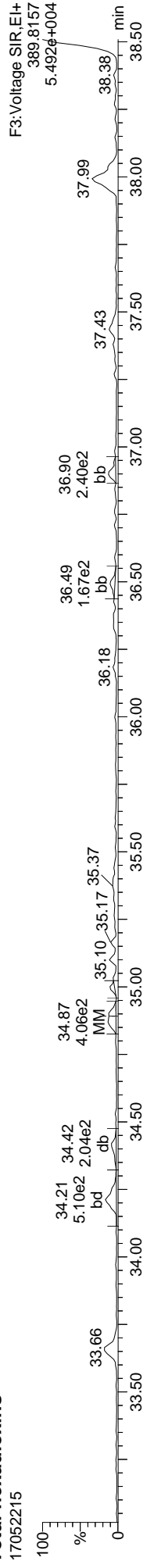
13C-123478-HxCDD



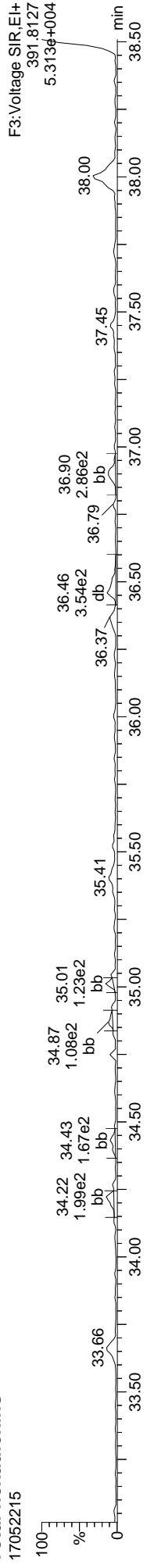
13C-123478-HxCDD



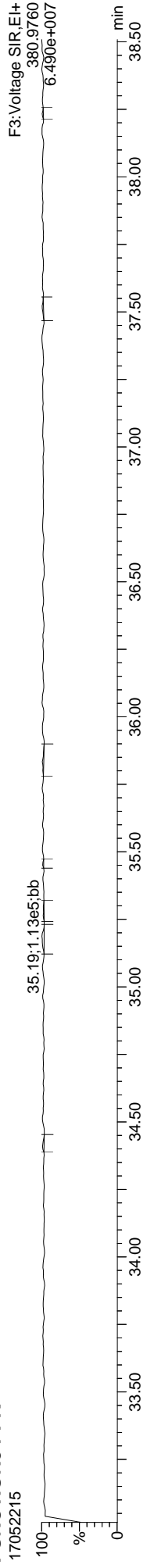
Total-hexadioxins



Total-hexadioxins



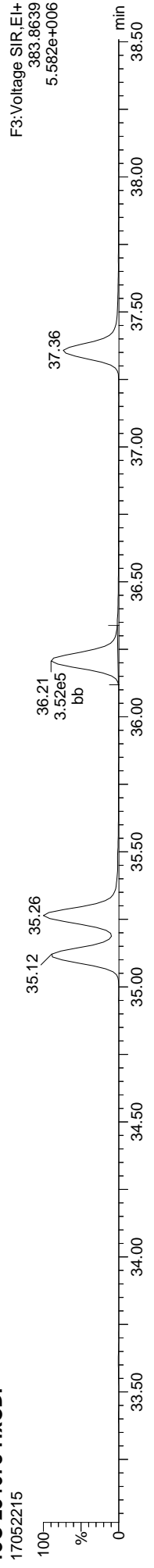
FUNCTION3 PFK



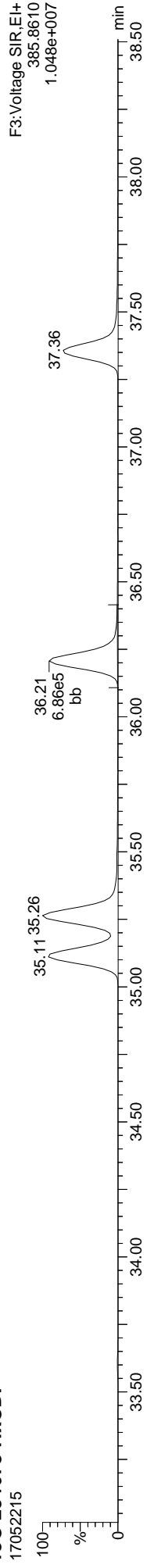
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

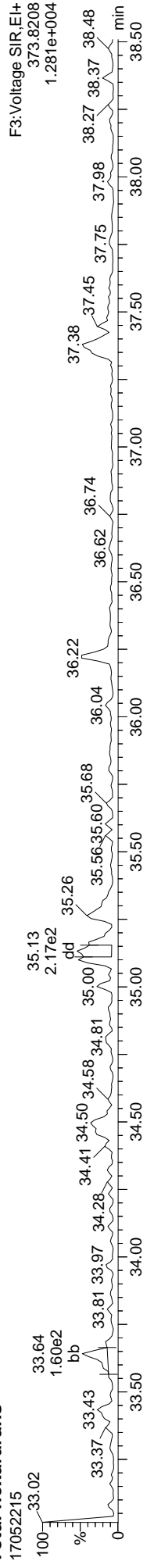
13C-234678-HxCDF



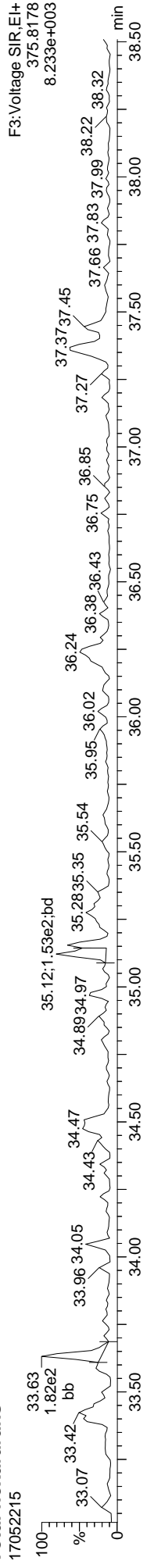
13C-234678-HxCDF



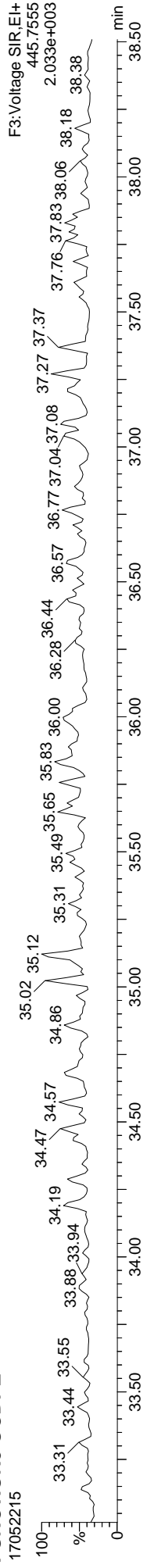
Total-hexafurans



Total-hexafurans



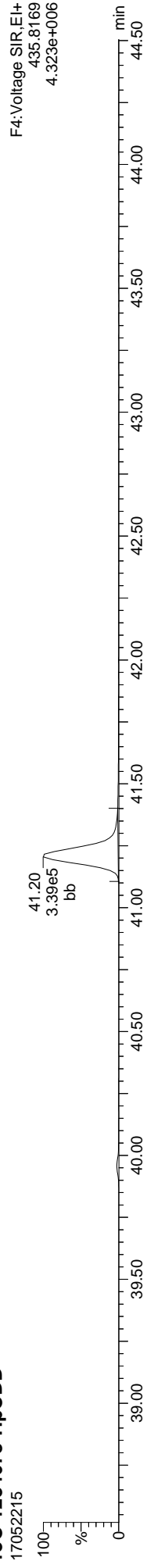
FUNCTION3 OCDFE



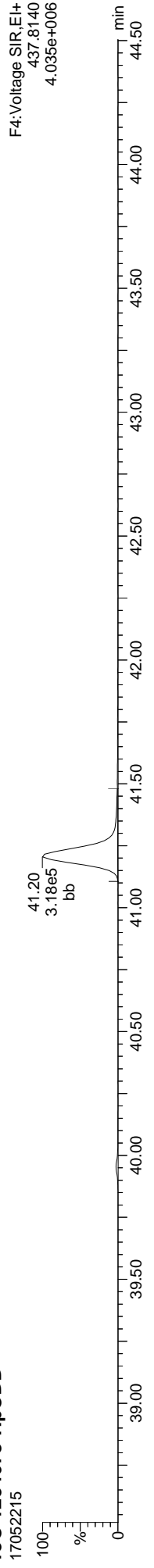
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

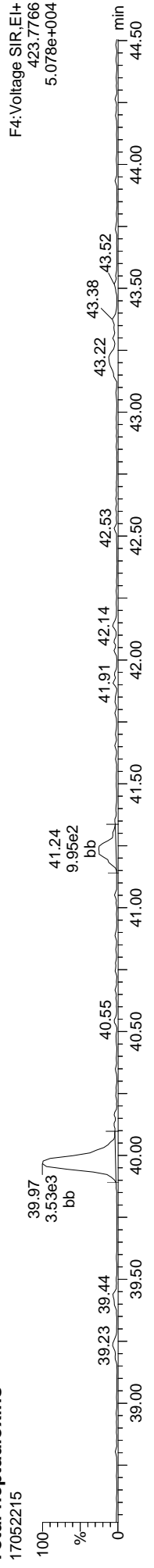
13C-1234678-HpCDD



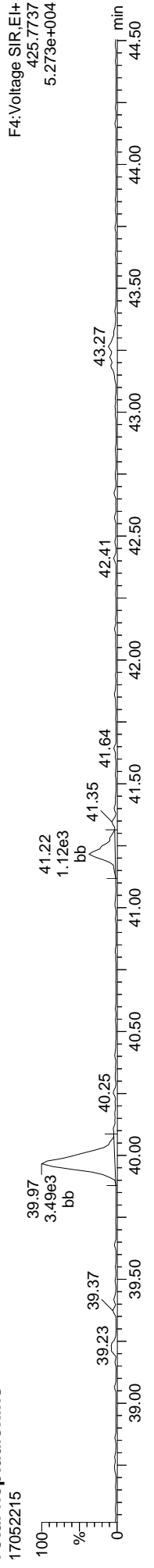
13C-1234678-HpCDD



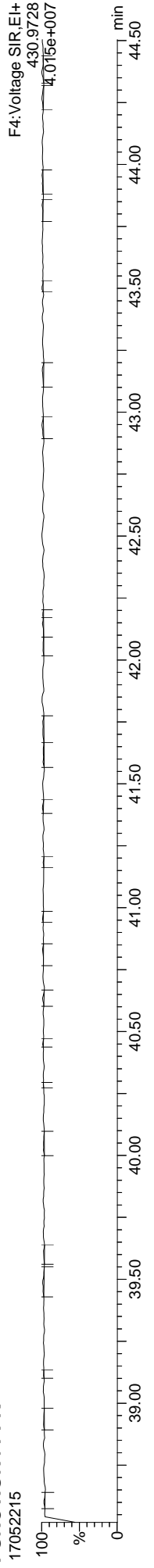
Total-heptadioxins



Total-heptadioxins



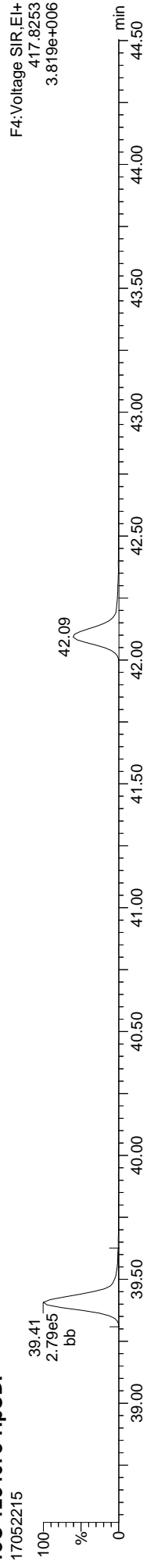
FUNCTION4 PFK



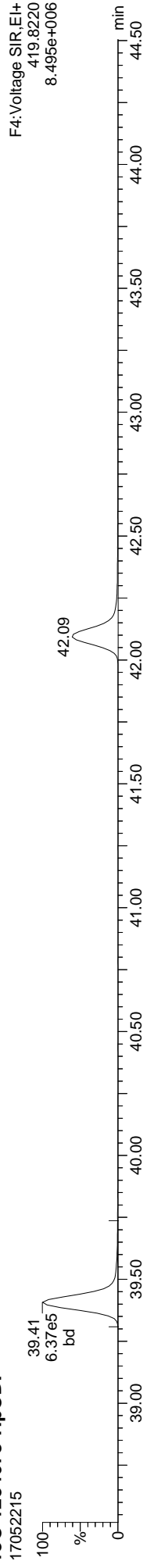
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

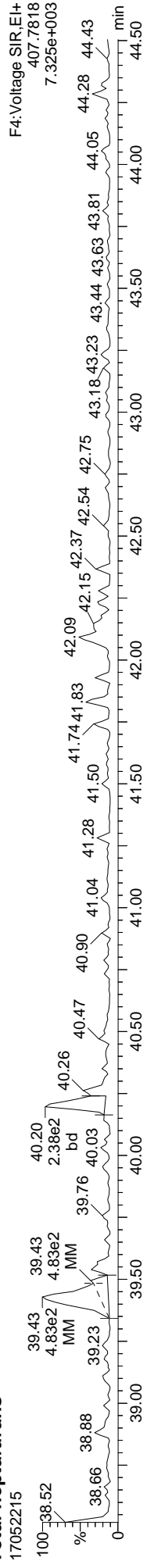
13C-1234678-HpCDF



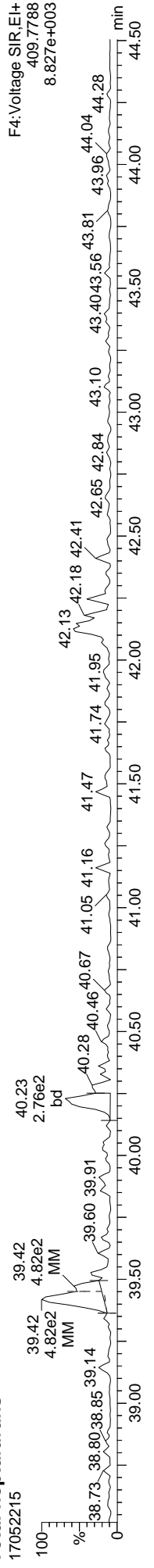
13C-1234678-HpCDF



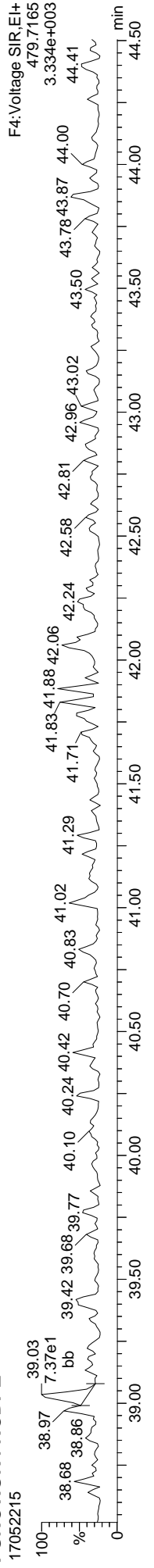
Total-heptafurans



Total-heptafurans



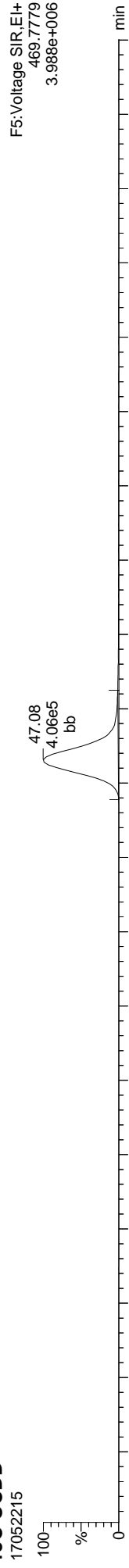
FUNCTION4 NCDPE



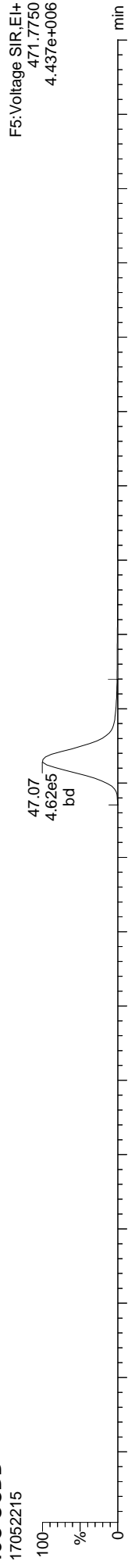
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:53 Pacific Daylight Time

ID: 17D0421-08, Name: 17052215, Date: 22-May-2017, Time: 22:02:20, Conditions: AUTOSPEC01, User: PK

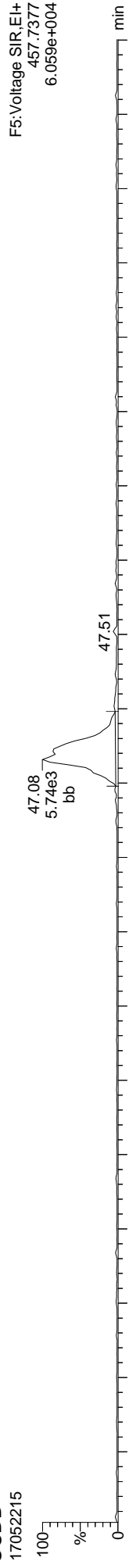
13C-OCDD



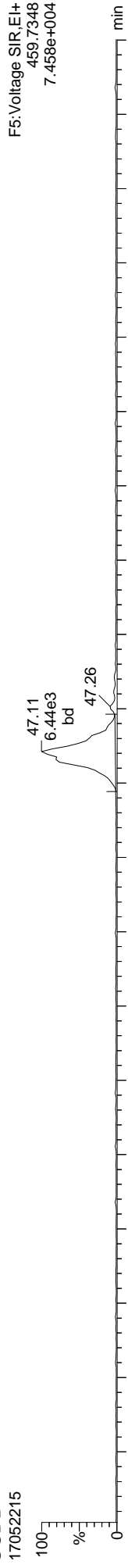
13C-OCDD



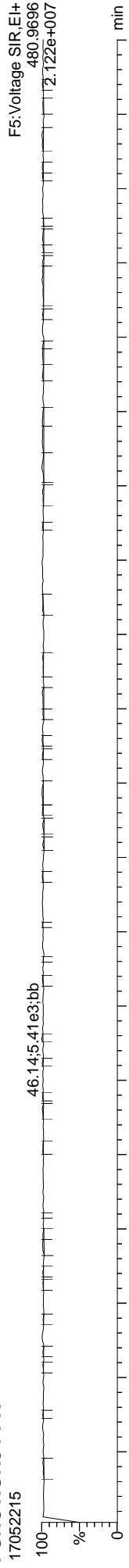
OCDD



OCDD



FUNCTION5 PFK





Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-09</u>
Sampled:	<u>04/26/17 12:00</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052216</u>
		Analyzed:	<u>05/22/17 22:55</u>
		Initial/Final:	<u>10.01 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.805	0.655-0.886		32.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.778	0.655-0.886		31.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.619	1.318-1.783		26.2	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.593	1.318-1.783		27.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.644	1.318-1.783		27.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.516	0.434-0.587		30.6	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.533	0.434-0.587		30.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.535	0.434-0.587		31.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.515	0.434-0.587		28.2	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.313	1.054-1.426		33.9	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.319	1.054-1.426		32.5	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506		27.4	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.424	0.374-0.506		27.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		0.997	0.893-1.208		30.6	23 - 140 %	
13C12-OCDD		0.879	0.757-1.024		24.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			93.1	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\DiDioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-09, **Name:** 17052216, **Date:** 22-May-2017, **Time:** 22:55:40, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	SNFlag	EMPC	Int.1	Int.2	pg	
2378-TCDF	26.003	1.001	9.391e1	1.341e2	1.018	0.700	0.770	575	965	1.76e3	3.55e3	3.1	YES	NO	bb	bb	0.021	
12378-PeCDF					0.977		1.550	565	1127									
23478-PeCDF					1.019		1.550	565	1127									
123478-HxCDF					1.150		1.240	674	411									
234678-HxCDF					1.188		1.240	674	411									
123678-HxCDF					1.100		1.240	674	411									
123789-HxCDF	37.390	1.001	1.495e2	8.055e1	1.116	1.856	1.240	674	411	2.87e3	1.82e3	4.3	YES	YES	MM	bb	0.049	
1234678-HpCDF					1.238		1.050	480	468									
1234789-HpCDF					1.257		1.050	480	468									
OCDF	47.374	1.006	2.092e2	2.648e2	1.321	0.790	0.890	503	594	4.49e3	3.53e3	8.9	YES	NO	MM	MM	0.173	
2378-TCDD					1.244		0.770	706	493									
12378-PeCDD					1.058		1.550	783	389									
123478-HxCDD					1.119		1.240	482	645									
123678-HxCDD					1.040		1.240	482	645									
123789-HxCDD					0.981		1.240	482	645									
1234678-HpCDD	41.226	1.000	2.301e2	2.696e2	1.132	0.854	1.050	486	594	4.02e3	4.66e3	8.3	YES	YES	bb	bd	0.134	
OCDD	47.087	1.000	1.066e3	1.180e3	1.117	0.903	0.890	439	422	1.12e4	1.03e4	25.6	YES	NO	MM	MM	0.969	
13C-2378-TCDF	25.974	1.006	4.793e5	5.954e5	1.685	0.805	0.770	6079	3769	6.55e6	8.28e6	1077.6	YES	NO	bd	bb	32.200	
13C-12378-PeCDF	30.113	1.167	5.470e5	3.379e5	1.706	1.619	1.550	3146	3283	7.50e6	4.75e6	2384.4	YES	NO	bd	bd	26.190	
13C-23478-PeCDF	31.450	1.219	5.368e5	3.370e5	1.632	1.593	1.550	3146	3283	7.64e6	4.90e6	2427.5	YES	NO	bd	bb	27.032	
13C-123478-HxCDF	35.122	0.952	2.044e5	3.960e5	1.682	0.516	0.510	2260	3089	2.93e6	5.65e6	1298.4	YES	NO	bd	bd	30.573	
13C-123678-HxCDF	35.264	0.956	2.427e5	4.550e5	1.945	0.533	0.510	2260	3089	3.24e6	6.02e6	1433.8	YES	NO	bd	dd	30.721	
13C-234678-HxCDF	36.217	0.982	2.005e5	3.748e5	1.582	0.535	0.510	2260	3089	2.72e6	5.19e6	1202.9	YES	NO	bd	bb	31.150	
13C-123789-HxCDF	37.357	1.013	1.445e5	2.803e5	1.291	0.515	0.510	2260	3089	1.96e6	3.83e6	867.9	YES	NO	bb	bb	28.194	
13C-1234678-HpCDD	39.407	1.068	1.421e5	3.147e5	1.427	0.451	0.440	1866	2083	1.95e6	4.25e6	1046.5	YES	NO	bb	bb	27.426	
13C-1234789-HpCDF	42.092	1.141	9.101e4	2.148e5	0.957	0.424	0.440	1866	2083	1.12e6	2.46e6	599.8	YES	NO	bd	bd	27.379	
13C-1234-TCDD	25.809	0.000	8.679e5	1.113e6	1.000	0.780	0.770	2140	1107	1.25e7	1.61e7	5860.8	YES	NO	bb	bb	100.000	
13C-2378-TCDD	26.616	1.031	2.393e5	3.075e5	0.873	0.778	0.770	2140	1107	3.37e6	4.27e6	1575.7	YES	NO	bb	bb	31.629	
13C-12378-PeCDD	31.702	1.228	2.906e5	1.768e5	0.860	1.644	1.550	1333	1184	4.10e6	2.51e6	3071.7	YES	NO	bd	bb	27.437	
13C-123478-HxCDD	36.349	0.985	2.499e5	1.904e5	1.114	1.313	1.240	1677	1724	3.67e6	2.79e6	2190.3	YES	NO	bd	bd	33.866	
13C-123678-HxCDD	36.470	0.988	2.712e5	2.056e5	1.258	1.319	1.240	1677	1724	3.78e6	2.95e6	2255.7	YES	NO	dd	db	32.455	
13C-1234678-HpCDD	41.204	1.117	1.647e5	1.652e5	0.924	0.997	1.050	1840	2039	2.15e6	2.10e6	1170.9	YES	NO	bd	bd	30.602	
13C-OCDD	47.078	1.276	1.942e5	2.209e5	0.738	0.879	0.890	1014	2682	1.89e6	2.10e6	1864.4	YES	NO	bd	bd	48.163	
13C-123789-HxCDD	36.897	0.000	6.542e5	5.132e5	1.000	1.275	1.240	1677	1724	9.18e6	7.18e6	5474.2	YES	NO	bb	bb	100.000	
Total-tetrafurans			9.391e1		1.018			575		1.76e3							0.021	

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld

Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					471		0.00e0								
Total-pentafurans			0.000e0		0.998			565		0.00e0								
Total-hexafurans			1.495e2		1.138			674		2.87e3							0.049	
Total-heptafurans			0.000e0		1.248			480		0.00e0								
Total-Furans			4.527e2		1.138			575		9.12e3							0.242	
Total-tetradioxins			0.000e0		1.244			706		0.00e0								
Total-pentadioxins			0.000e0		1.058			783		0.00e0								
Total-hexadioxins			0.000e0		1.047			482		0.00e0								
Total-heptadioxins			8.113e2		1.132			486		1.18e4							0.403	
Total-Dioxins			1.877e3		1.099			706		2.30e4							1.372	
Total-TEQ			2.330e3					706		3.21e4							1.614	
37CL-2378-TCDD	26.631	1.032	7.533e5		1.021			1694		1.07e7		6290.5	YES		bb		37.235	
FUNCTION1 PFK			0.000e0					770338		0.00e0								
FUNCTION2 PFK			6.243e4					130724		1.96e6							0.000	
FUNCTION3 PFK			2.048e6					719647		4.86e7							0.000	
FUNCTION4 PFK			7.203e5					407526		2.02e7								
FUNCTION5 PFK			5.880e4					231904		2.18e6								
FUNCTION1 HXCD...			4.066e2					252		5.60e3							0.000	
FUNCTION1 HPCD...			0.000e0					498		0.00e0								
FUNCTION2 HPCD...			7.777e1					494		2.86e3								
FUNCTION3 OCDPE			0.000e0					271		0.00e0								
FUNCTION4 NCDPE			0.000e0					315		0.00e0								
FUNCTION5 DCDPE			0.000e0					208		0.00e0								

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	9.391e1	1.341e2	1.018	0.70	0.77	3.1	YES	NO	bb	bb	0.021

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.39	1.495e2	8.055e1	1.116	1.86	1.24	4.3	YES	YES	MM	bb	0.049

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	9.391e1	1.341e2	1.018	0.70	0.77	3.1	YES	NO	bb	bb	0.021
2	123789-HxCDF	37.39	1.495e2	8.055e1	1.116	1.86	1.24	4.3	YES	YES	MM	bb	0.049
3	OCDF	47.37	2.092e2	2.648e2	1.321	0.79	0.89	8.9	YES	NO	MM	MM	0.173

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.23	2.301e2	2.696e2	1.132	0.85	1.05	8.3	YES	YES	bb	bd	0.134
2	Total-heptadioxins	40.00	5.812e2	4.244e2	1.132	1.37	1.05	15.9	YES	YES	bb	MM	0.269

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.23	2.301e2	2.696e2	1.132	0.85	1.05	8.3	YES	YES	bb	bd	0.134
2	Total-heptadioxins	40.00	5.812e2	4.244e2	1.132	1.37	1.05	15.9	YES	YES	bb	MM	0.269
3	OCDD	47.09	1.066e3	1.180e3	1.117	0.90	0.89	25.6	YES	NO	MM	MM	0.969

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	9.391e1	1.341e2	1.018	0.70	0.77	3.1	YES	NO	bb	bb	0.021
2	123789-HxCDF	37.39	1.495e2	8.055e1	1.116	1.86	1.24	4.3	YES	YES	MM	bb	0.049
3	OCDF	47.37	2.092e2	2.648e2	1.321	0.79	0.89	8.9	YES	NO	MM	MM	0.173
4	1234678-HpCDD	41.23	2.301e2	2.696e2	1.132	0.85	1.05	8.3	YES	YES	bb	bd	0.134
5	Total-heptadioxins	40.00	5.812e2	4.244e2	1.132	1.37	1.05	15.9	YES	YES	bb	MM	0.269
6	OCDD	47.09	1.066e3	1.180e3	1.117	0.90	0.89	25.6	YES	NO	MM	MM	0.969

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.68	5.361e3					1.5	NO		bb		0.000
2	FUNCTION2 PFK	32.04	3.687e3					1.2	NO		bb		0.000
3	FUNCTION2 PFK	31.91	4.245e3					1.4	NO		bb		0.000
4	FUNCTION2 PFK	31.80	6.314e3					2.1	NO		bb		0.000
5	FUNCTION2 PFK	31.47	5.473e3					1.1	NO		bb		0.000
6	FUNCTION2 PFK	30.88	2.243e3					0.9	NO		bb		0.000
7	FUNCTION2 PFK	30.58	6.667e3					1.6	NO		bb		0.000
8	FUNCTION2 PFK	29.15	8.020e2					0.6	NO		bb		0.000
9	FUNCTION2 PFK	29.10	2.992e3					1.1	NO		bb		0.000
10	FUNCTION2 PFK	28.85	1.316e4					2.3	NO		bb		0.000
11	FUNCTION2 PFK	28.57	1.149e4					1.2	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.46	3.361e4					1.5	NO		bb		0.000
2	FUNCTION3 PFK	33.35	6.648e4					1.9	NO		bb		0.000
3	FUNCTION3 PFK	33.25	8.728e4					2.0	NO		bb		0.000
4	FUNCTION3 PFK	33.12	4.348e4					1.5	NO		bb		0.000
5	FUNCTION3 PFK	35.42	4.151e4					1.4	NO		dd		0.000
6	FUNCTION3 PFK	35.35	3.744e4					1.6	NO		bd		0.000
7	FUNCTION3 PFK	35.13	2.390e4					0.9	NO		db		0.000
8	FUNCTION3 PFK	35.03	3.796e4					1.3	NO		dd		0.000
9	FUNCTION3 PFK	34.97	5.381e4					1.7	NO		dd		0.000
10	FUNCTION3 PFK	34.91	8.476e4					2.1	NO		bd		0.000
11	FUNCTION3 PFK	34.79	1.135e5					2.1	NO		bb		0.000
12	FUNCTION3 PFK	34.57	4.566e4					1.8	NO		db		0.000
13	FUNCTION3 PFK	34.45	9.480e4					2.0	NO		bd		0.000
14	FUNCTION3 PFK	34.12	4.250e4					1.8	NO		bb		0.000
15	FUNCTION3 PFK	34.06	2.170e4					1.3	NO		db		0.000
16	FUNCTION3 PFK	34.03	8.183e4					1.8	NO		bd		0.000
17	FUNCTION3 PFK	33.92	3.979e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	33.67	6.133e4					1.8	NO		bb		0.000
19	FUNCTION3 PFK	33.60	5.779e3					0.5	NO		db		0.000
20	FUNCTION3 PFK	33.57	2.285e4					0.9	NO		bd		0.000
21	FUNCTION3 PFK	36.90	9.193e3					0.6	NO		bb		0.000
22	FUNCTION3 PFK	36.67	3.923e4					1.3	NO		db		0.000
23	FUNCTION3 PFK	36.57	4.115e4					1.6	NO		dd		0.000
24	FUNCTION3 PFK	36.50	2.515e4					0.8	NO		bd		0.000
25	FUNCTION3 PFK	36.46	6.372e4					1.4	NO		db		0.000
26	FUNCTION3 PFK	36.33	3.400e4					1.1	NO		bd		0.000
27	FUNCTION3 PFK	36.18	3.156e3					0.4	NO		bb		0.000
28	FUNCTION3 PFK	36.12	6.015e4					1.9	NO		bb		0.000
29	FUNCTION3 PFK	36.05	2.082e4					1.3	NO		db		0.000
30	FUNCTION3 PFK	36.01	7.223e4					2.0	NO		bd		0.000
31	FUNCTION3 PFK	35.92	2.218e4					1.0	NO		db		0.000
32	FUNCTION3 PFK	35.89	1.605e4					1.0	NO		bd		0.000
33	FUNCTION3 PFK	35.82	5.524e3					0.5	NO		bb		0.000
34	FUNCTION3 PFK	35.65	6.253e4					1.5	NO		bb		0.000
35	FUNCTION3 PFK	35.57	5.991e4					1.3	NO		bb		0.000
36	FUNCTION3 PFK	35.46	3.176e4					1.6	NO		db		0.000
37	FUNCTION3 PFK	38.43	3.359e4					1.3	NO		db		0.000
38	FUNCTION3 PFK	38.39	3.788e4					1.4	NO		dd		0.000
39	FUNCTION3 PFK	38.32	3.882e4					1.1	NO		bd		0.000
40	FUNCTION3 PFK	38.21	1.370e4					0.8	NO		bb		0.000
41	FUNCTION3 PFK	37.98	4.476e4					1.2	NO		bb		0.000
42	FUNCTION3 PFK	37.78	2.388e4					1.3	NO		bb		0.000
43	FUNCTION3 PFK	37.53	2.125e4					1.1	NO		db		0.000
44	FUNCTION3 PFK	37.49	2.244e4					1.1	NO		bd		0.000
45	FUNCTION3 PFK	37.42	4.867e4					1.7	NO		db		0.000
46	FUNCTION3 PFK	37.35	4.817e4					1.7	NO		dd		0.000
47	FUNCTION3 PFK	37.30	4.101e4					1.5	NO		bd		0.000
48	FUNCTION3 PFK	37.23	6.531e4					2.3	NO		bb		0.000
49	FUNCTION3 PFK	37.04	2.157e3					0.3	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.68	9.334e3					0.9	NO		bd		
2	FUNCTION4 PFK	38.63	8.361e3					0.9	NO		bb		
3	FUNCTION4 PFK	40.95	6.648e3					0.9	NO		bb		
4	FUNCTION4 PFK	40.68	3.505e3					0.6	NO		db		
5	FUNCTION4 PFK	40.61	3.186e4					1.7	NO		bd		
6	FUNCTION4 PFK	40.51	4.409e4					1.9	NO		bb		
7	FUNCTION4 PFK	40.39	1.211e4					0.9	NO		bb		
8	FUNCTION4 PFK	40.35	2.180e4					1.6	NO		db		
9	FUNCTION4 PFK	40.25	3.680e4					1.4	NO		bd		
10	FUNCTION4 PFK	39.66	3.347e3					0.5	NO		db		
11	FUNCTION4 PFK	39.62	8.588e3					1.0	NO		bd		
12	FUNCTION4 PFK	39.38	2.597e4					1.7	NO		db		
13	FUNCTION4 PFK	39.30	2.810e4					2.0	NO		dd		
14	FUNCTION4 PFK	39.28	2.165e4					1.8	NO		bd		
15	FUNCTION4 PFK	39.19	3.193e4					1.4	NO		bb		
16	FUNCTION4 PFK	38.86	2.418e4					1.4	NO		db		
17	FUNCTION4 PFK	38.81	2.550e4					1.7	NO		dd		
18	FUNCTION4 PFK	38.75	2.935e4					1.7	NO		dd		
19	FUNCTION4 PFK	43.12	6.995e3					0.9	NO		bb		
20	FUNCTION4 PFK	43.02	3.826e4					2.1	NO		bb		
21	FUNCTION4 PFK	42.74	1.523e4					1.2	NO		bb		
22	FUNCTION4 PFK	42.66	1.625e3					0.4	NO		bb		
23	FUNCTION4 PFK	42.62	8.206e3					0.8	NO		bb		
24	FUNCTION4 PFK	42.45	6.787e3					0.9	NO		bb		
25	FUNCTION4 PFK	42.29	2.611e4					1.4	NO		db		
26	FUNCTION4 PFK	42.22	4.059e3					0.6	NO		dd		
27	FUNCTION4 PFK	42.18	4.093e4					1.7	NO		bd		
28	FUNCTION4 PFK	42.06	2.947e4					1.7	NO		bb		
29	FUNCTION4 PFK	41.62	1.674e4					1.2	NO		db		
30	FUNCTION4 PFK	41.60	1.088e4					1.1	NO		bd		
31	FUNCTION4 PFK	41.52	4.916e3					0.7	NO		bb		
32	FUNCTION4 PFK	41.40	2.203e4					1.4	NO		bb		
33	FUNCTION4 PFK	41.28	2.738e4					1.4	NO		bb		
34	FUNCTION4 PFK	41.22	1.528e3					0.3	NO		bb		
35	FUNCTION4 PFK	44.45	1.935e3					0.4	NO		bb		
36	FUNCTION4 PFK	44.26	1.280e4					1.2	NO		bb		
37	FUNCTION4 PFK	44.15	1.216e4					0.9	NO		bb		
38	FUNCTION4 PFK	43.73	4.945e3					0.5	NO		bb		
39	FUNCTION4 PFK	43.68	3.794e3					0.6	NO		bb		
40	FUNCTION4 PFK	43.59	1.351e4					1.0	NO		bb		
41	FUNCTION4 PFK	43.51	3.053e4					1.7	NO		bb		
42	FUNCTION4 PFK	43.43	3.131e3					0.7	NO		bb		
43	FUNCTION4 PFK	43.36	1.774e3					0.4	NO		bb		
44	FUNCTION4 PFK	43.22	1.458e3					0.3	NO		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.49	2.435e4					1.9	NO		bb		
2	FUNCTION5 PFK	45.99	1.349e3					0.6	NO		bb		
3	FUNCTION5 PFK	45.32	1.316e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.02	6.921e3					1.5	NO		bb		
5	FUNCTION5 PFK	44.58	1.430e4					2.2	NO		bb		
6	FUNCTION5 PFK	48.18	3.384e3					0.9	NO		bb		
7	FUNCTION5 PFK	48.10	7.173e3					1.7	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.05	4.066e2					22.2	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.75	7.777e1					5.8	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

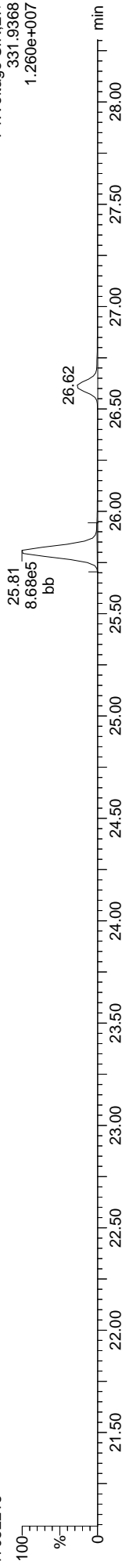
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

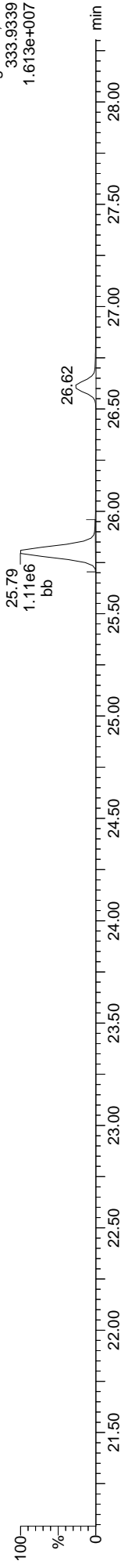
13C-1234-TCDD

17052216



13C-1234-TCDD

17052216



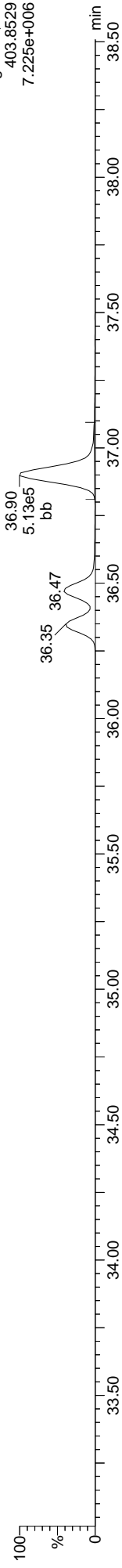
13C-123789-HxCDD

17052216



13C-123789-HxCDD

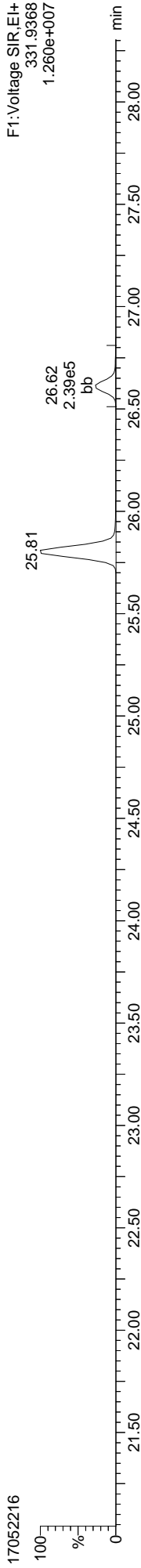
17052216



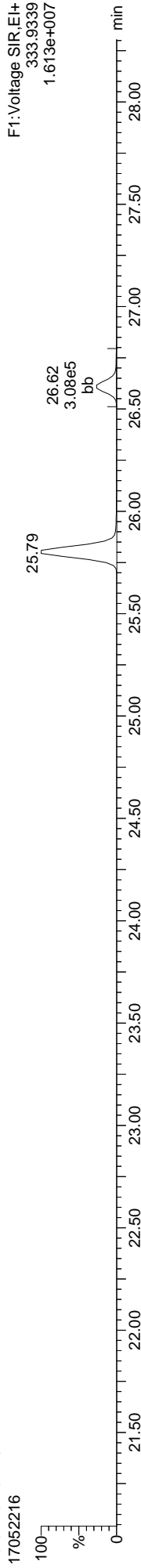
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

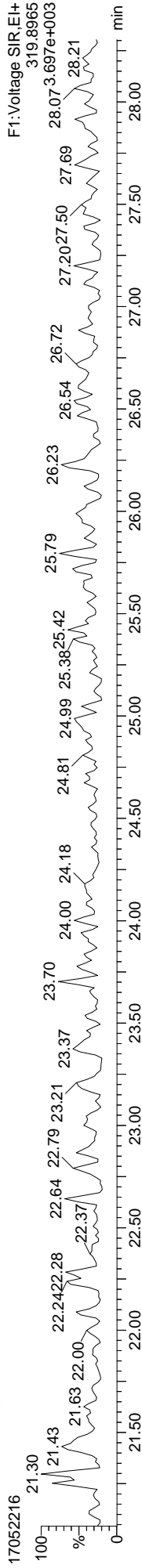
13C-2378-TCDD



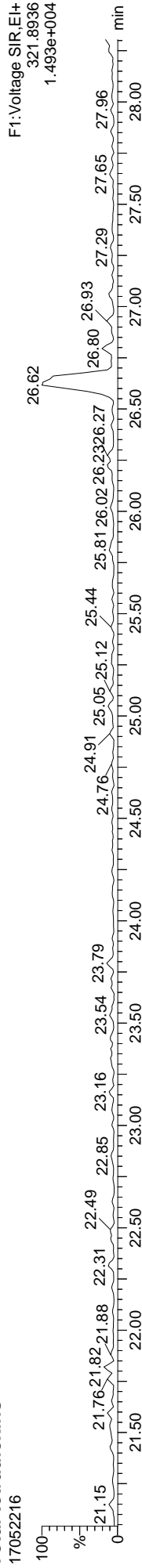
13C-2378-TCDD



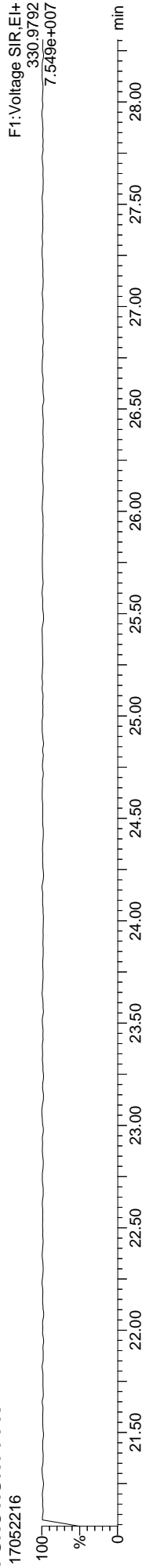
Total-tetradioxins



Total-tetradioxins



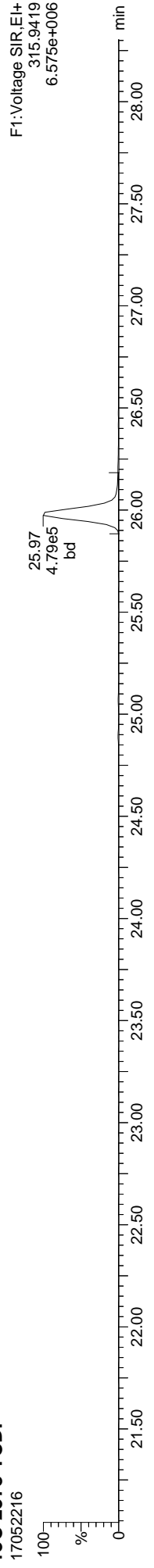
FUNCTION1 PFK



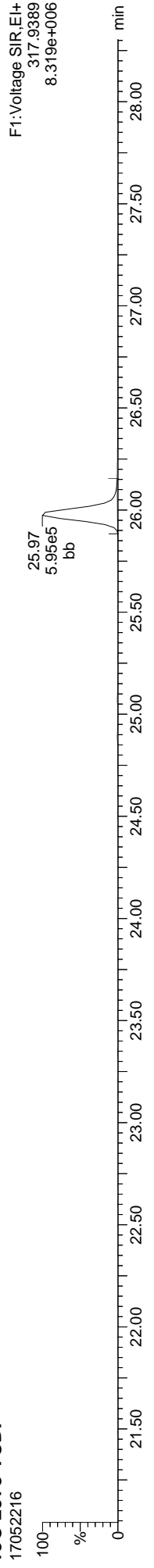
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

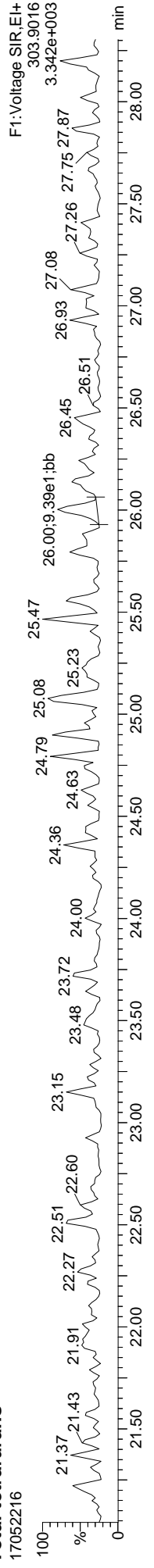
13C-2378-TCDF



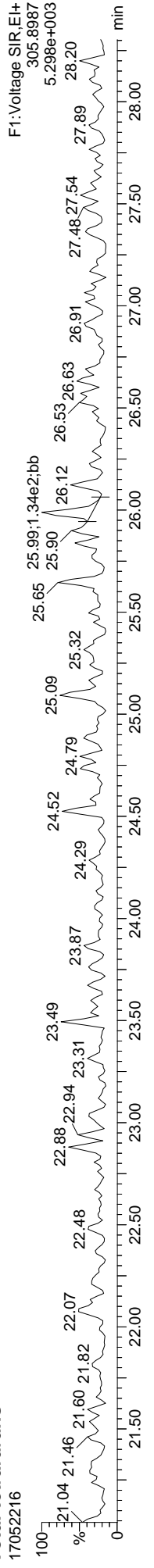
13C-2378-TCDF



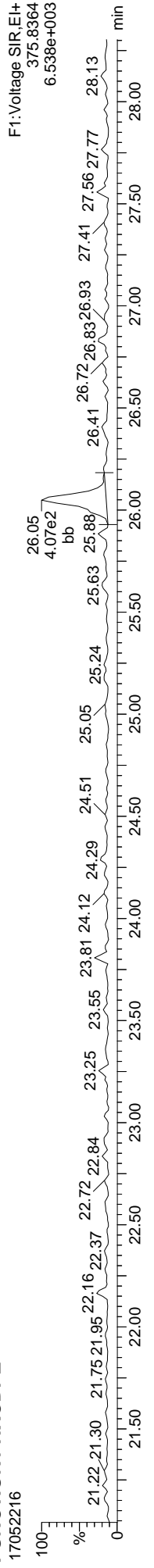
Total-tetrafurans



Total-tetrafurans



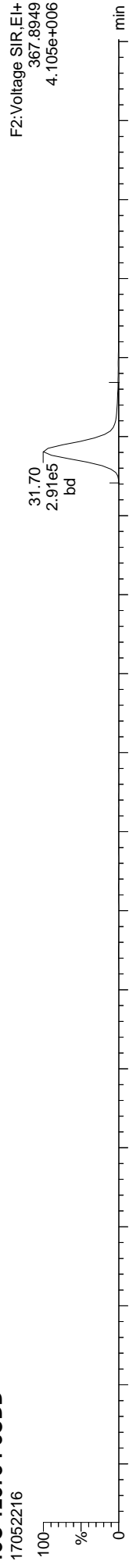
FUNCTION1 HXCDFE



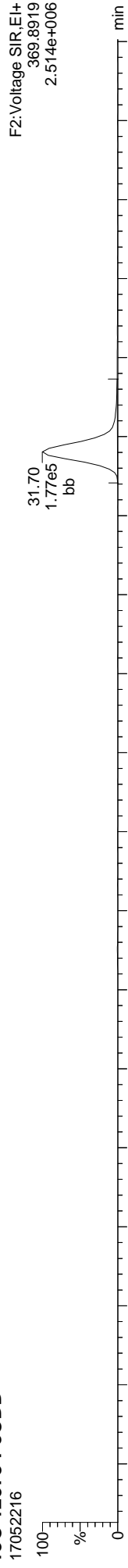
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

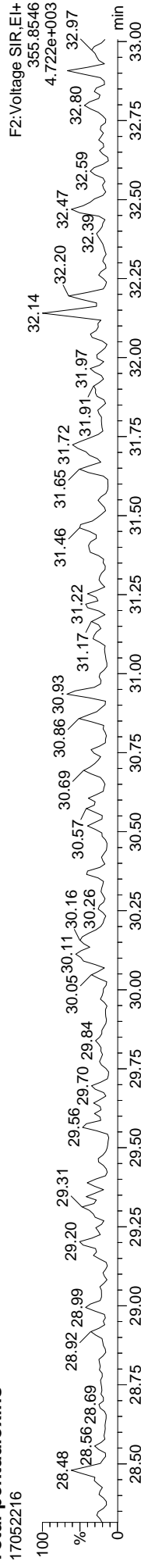
13C-12378-PeCDD



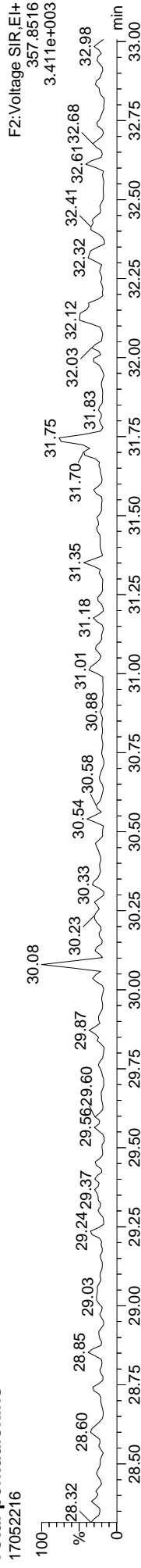
13C-12378-PeCDD



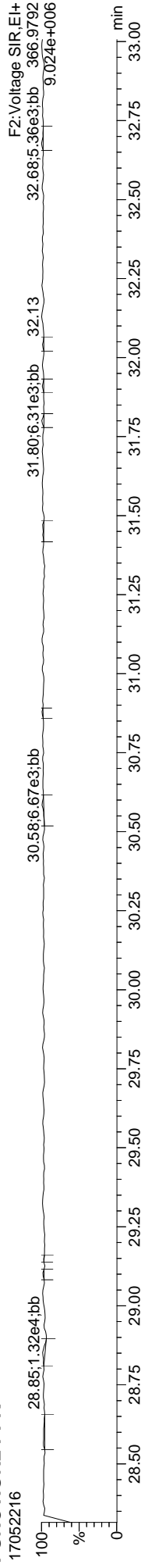
Total-pentadioxins



Total-pentadioxins



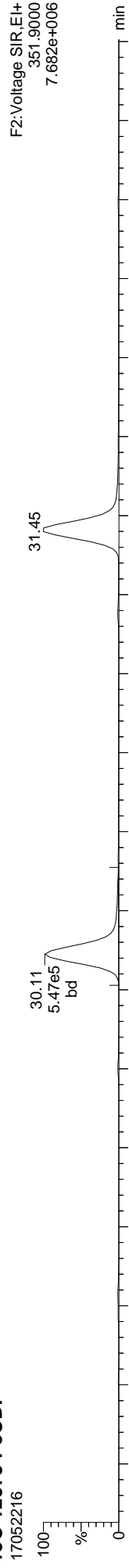
FUNCTION2 PFK



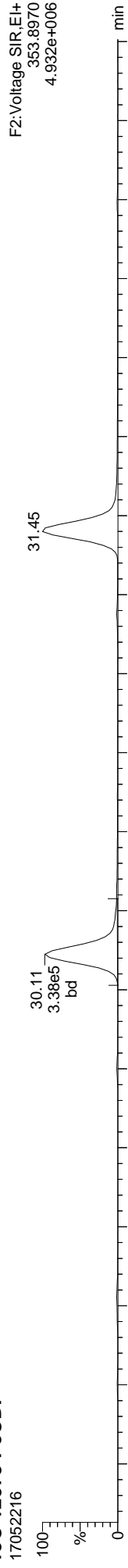
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

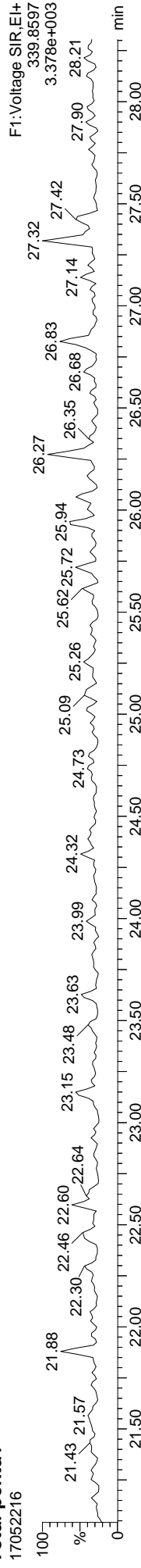
13C-12378-PeCDF



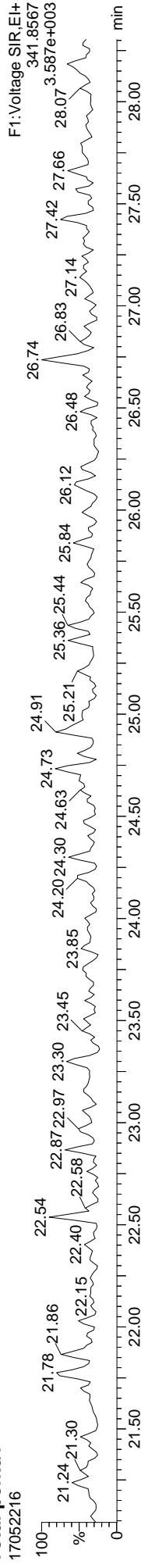
13C-12378-PeCDF



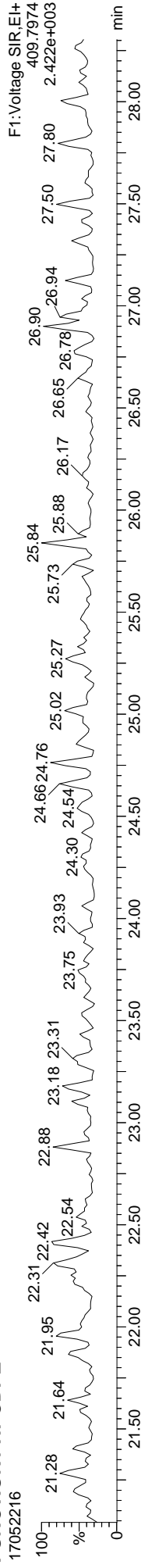
Total-penta1



Total-penta1



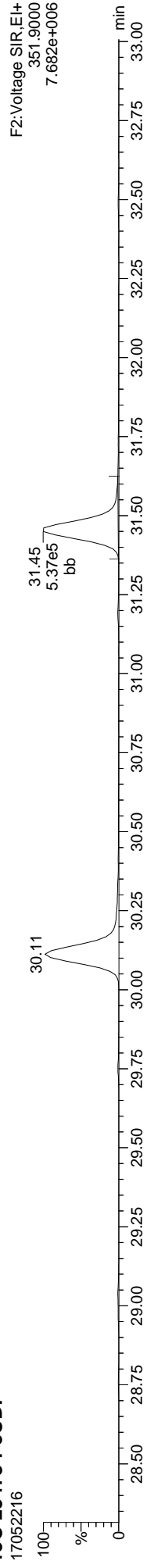
FUNCTION1 HPCDPE



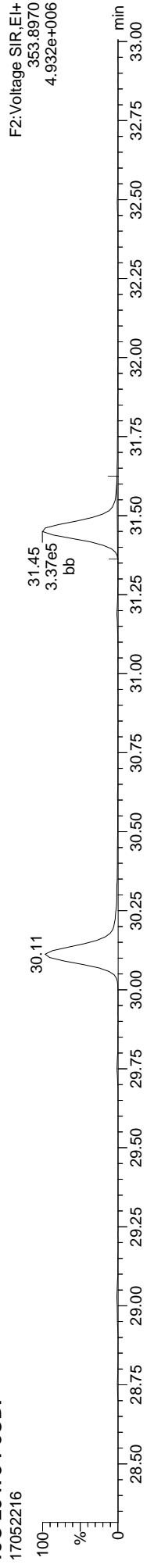
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

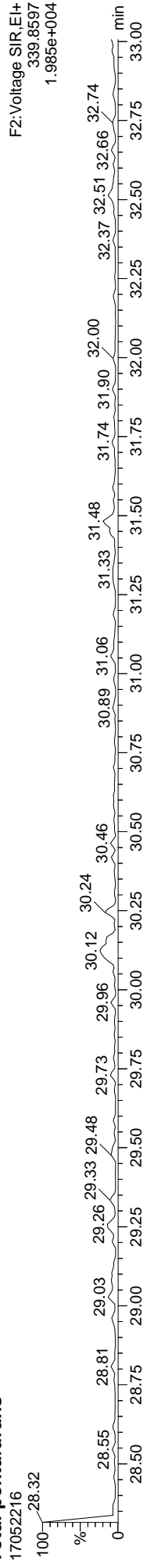
13C-23478-PeCDF



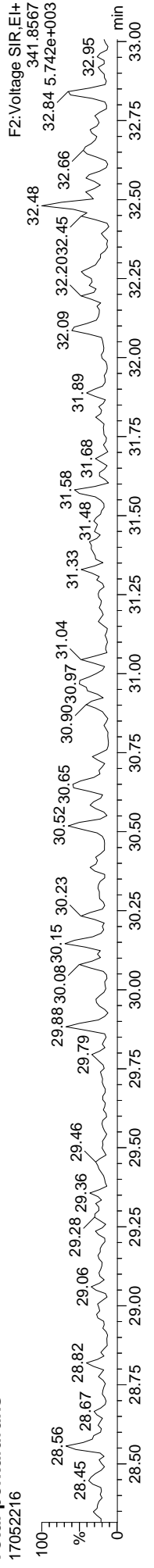
13C-23478-PeCDF



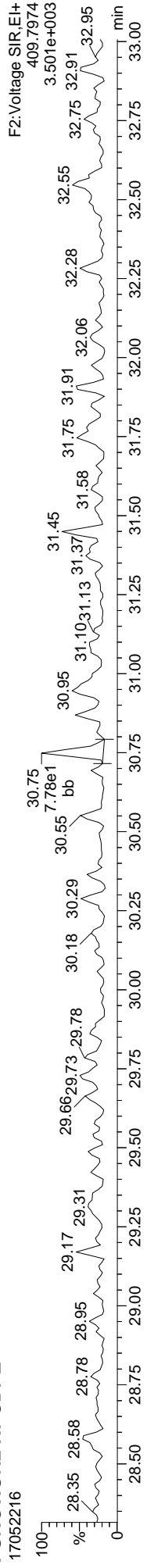
Total-pentafurans



Total-pentafurans



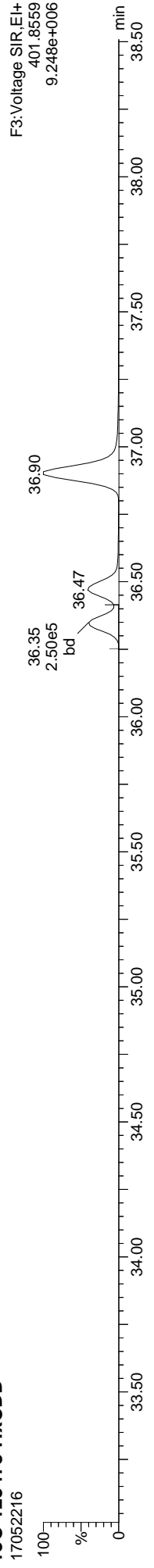
FUNCTION2 HPCDPE



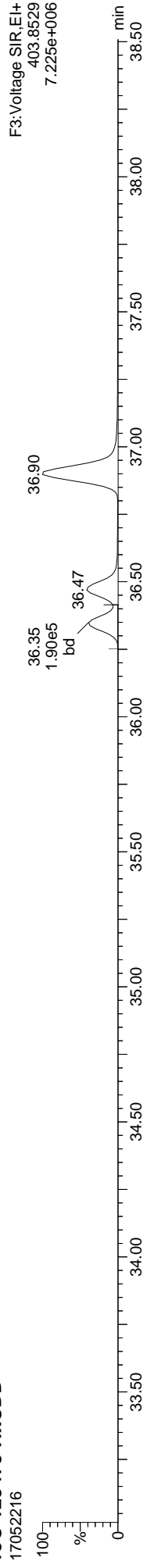
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

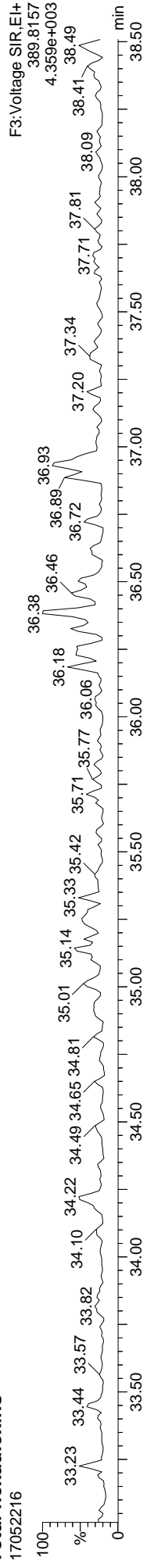
13C-123478-HxCDD



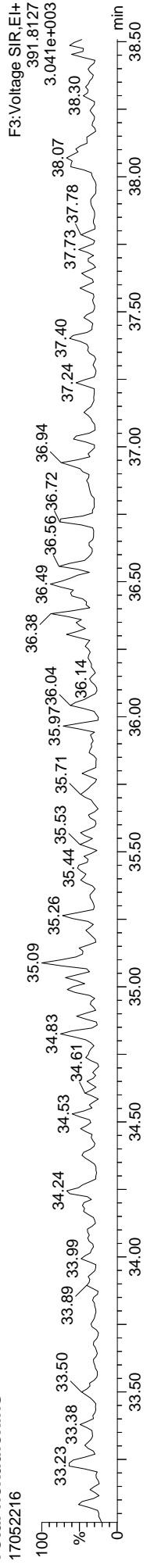
13C-123478-HxCDD



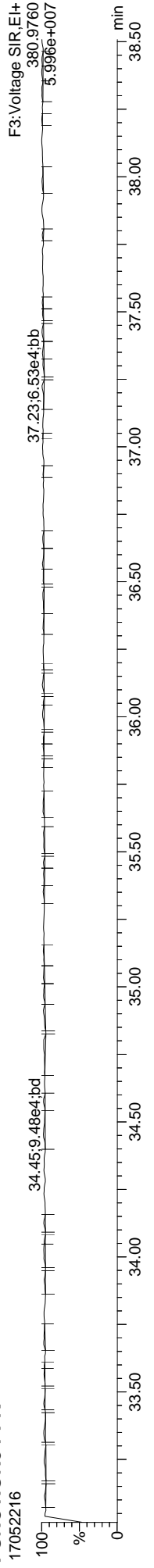
Total-hexadioxins



Total-hexadioxins



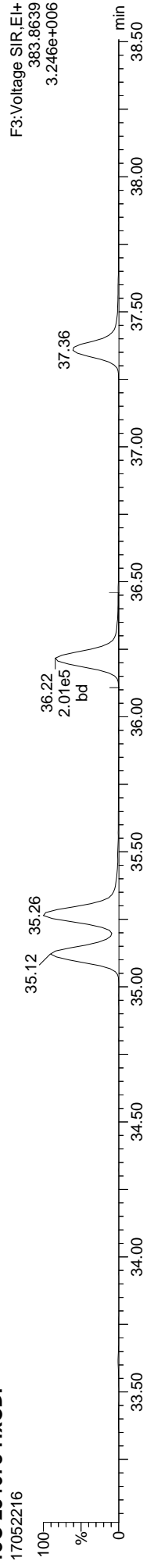
FUNCTION3 PFK



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

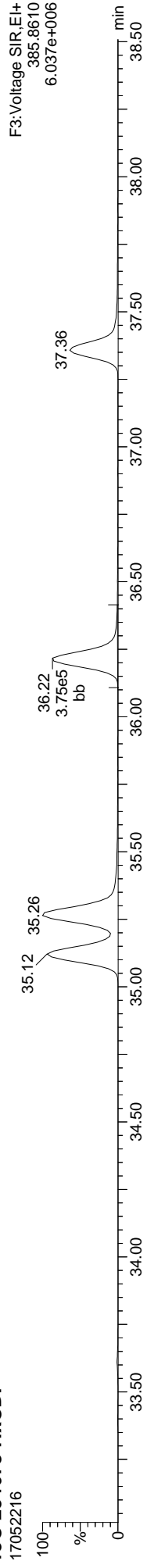
ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

13C-234678-HxCDF



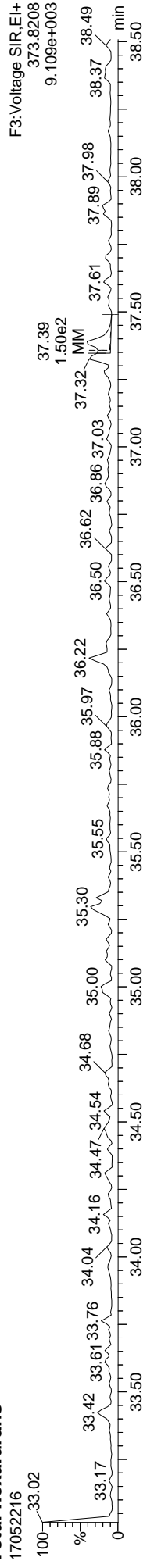
F3:Voltage SIR,EI+
383.8639
3.246e+006

13C-234678-HxCDF



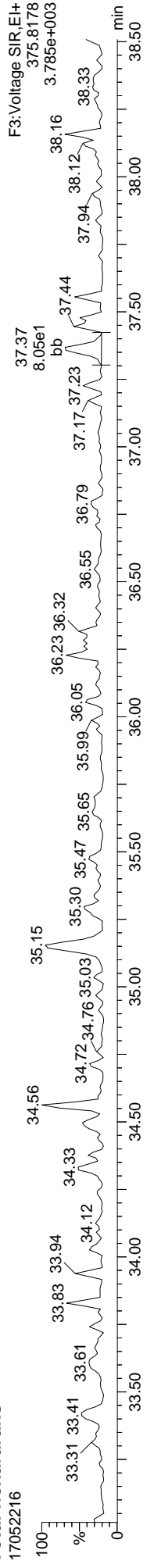
F3:Voltage SIR,EI+
385.8610
6.037e+006

Total-hexafurans



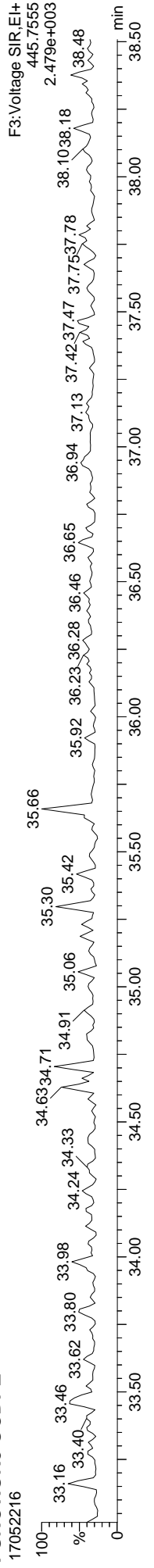
F3:Voltage SIR,EI+
373.8208
9.109e+003

Total-hexafurans



F3:Voltage SIR,EI+
375.8178
3.785e+003

FUNCTION3 OCDPE

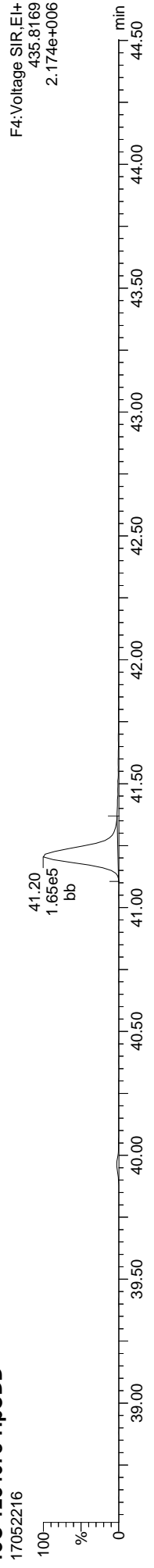


F3:Voltage SIR,EI+
445.7555
2.479e+003

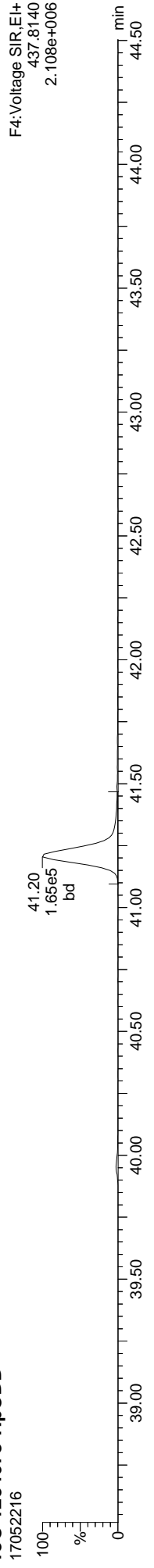
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

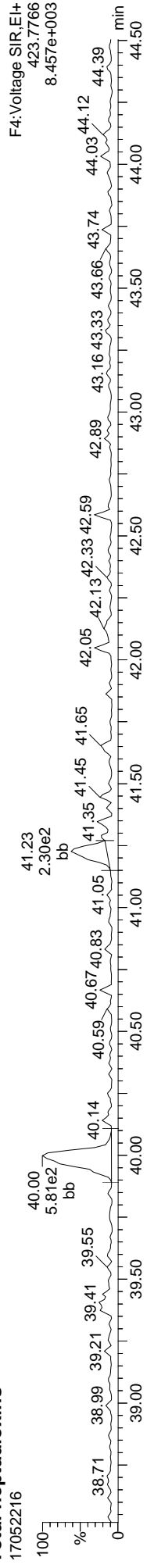
13C-1234678-HpCDD



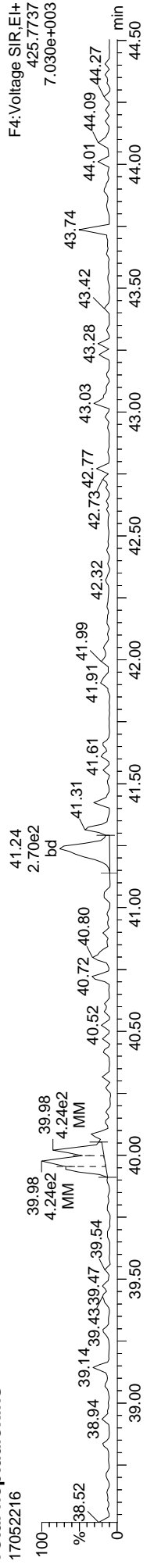
13C-1234678-HpCDD



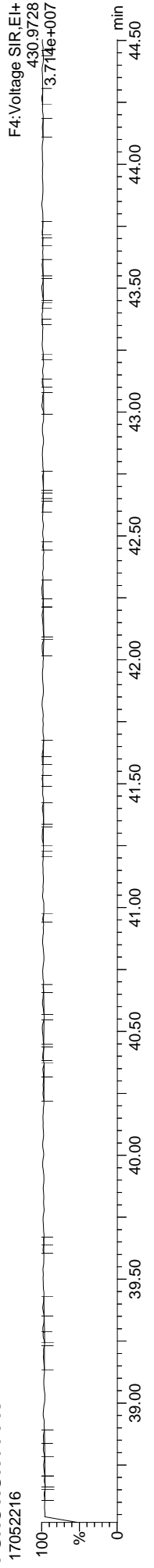
Total-heptadioxins



Total-heptadioxins



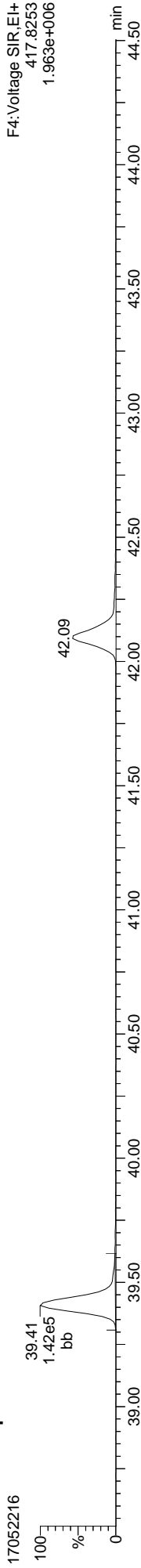
FUNCTION4 PFK



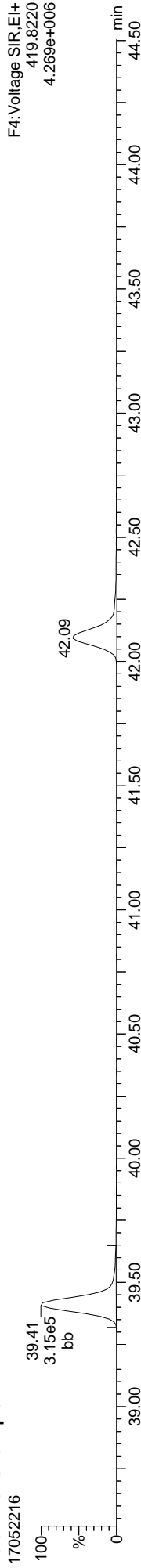
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

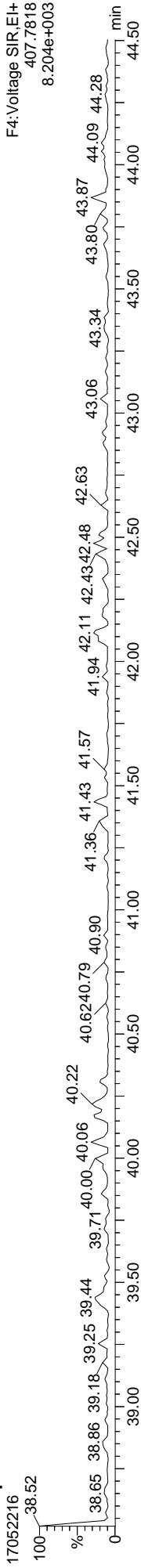
13C-1234678-HpCDF



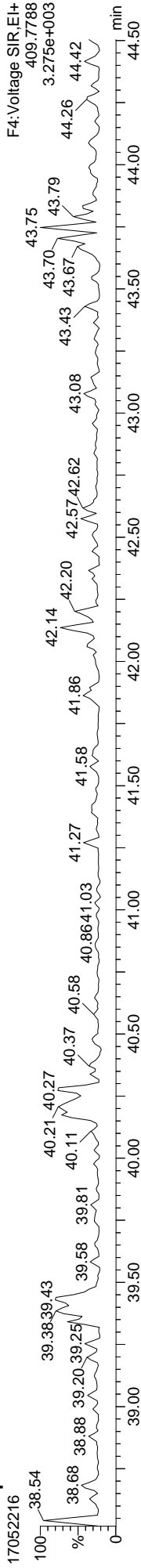
13C-1234678-HpCDF



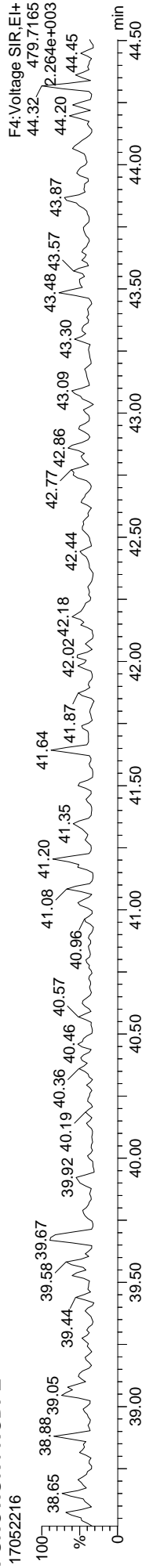
Total-heptafurans



Total-heptafurans



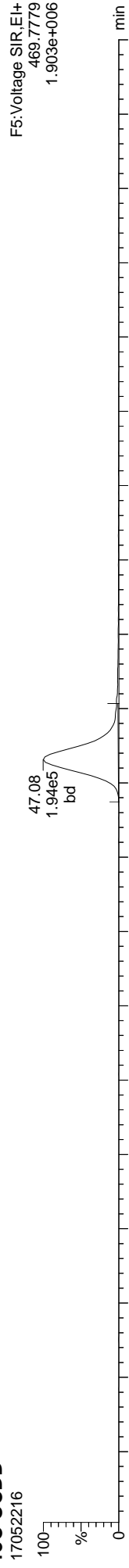
FUNCTION4 NCDPE



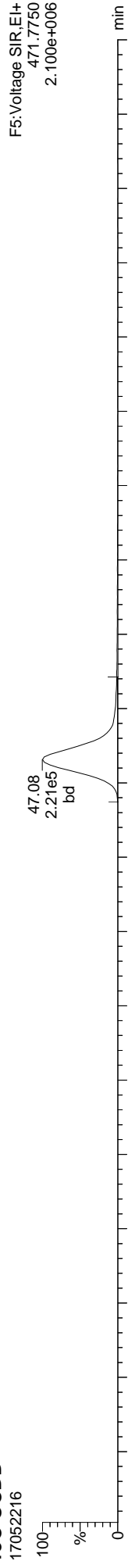
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:54:58 Pacific Daylight Time

ID: 17D0421-09, Name: 17052216, Date: 22-May-2017, Time: 22:55:40, Conditions: AUTOSPEC01, User: PK

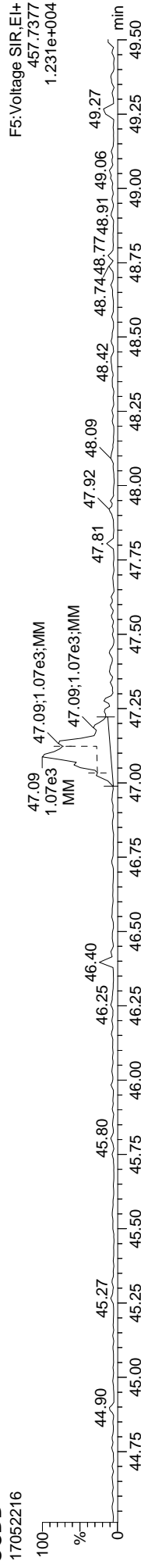
13C-OCDD



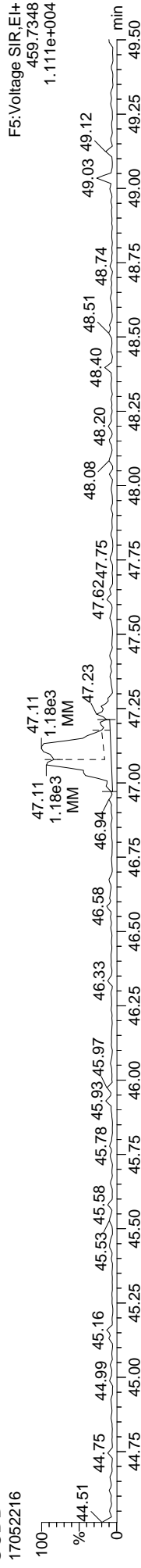
13C-OCDD



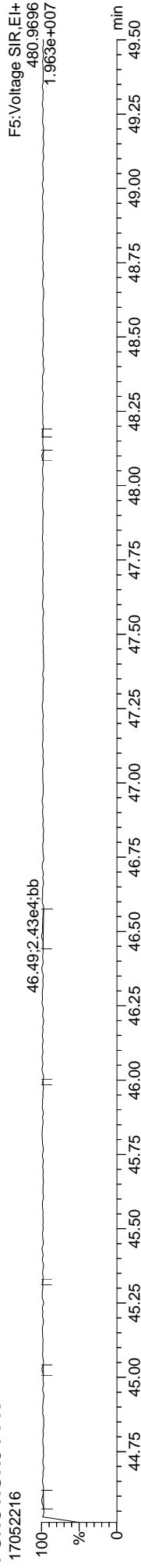
OCDD



OCDD



FUNCTION5 PFK





Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17D0421
 Client: Anchor QEA, LLC
 Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17D0421-10 File ID: 17052217
 Sampled: 04/26/17 12:15 Prepared: 05/09/17 16:05 Analyzed: 05/22/17 23:49
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.01 g / 20 uL
 Result Basis: Dry Sequence: SFE0219 Calibration: AE00055
 Batch: BFE0233 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.771	0.655-0.886		0.999	2.06	ng/kg	B
1746-01-6	2,3,7,8-TCDD	1	0.295	0.655-0.886		0.999	0.369	ng/kg	EMPC, J, B
57117-41-6	1,2,3,7,8-PeCDF	1	1.295	1.318-1.783		5.00	0.396	ng/kg	EMPC, J, B
57117-31-4	2,3,4,7,8-PeCDF	1	1.530	1.318-1.783		5.00	0.793	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.304	1.318-1.783		5.00	1.13	ng/kg	EMPC, J, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.342	1.054-1.426		5.00	0.416	ng/kg	J, B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.090	1.054-1.426		5.00	0.227	ng/kg	J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.012	1.054-1.426		5.00	0.204	ng/kg	EMPC, J, B
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.200	5.00	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.028	1.054-1.426		5.00	0.505	ng/kg	EMPC, J, B
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.339	1.054-1.426		5.00	2.95	ng/kg	J, B
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.483	1.054-1.426		5.00	0.430	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.967	0.893-1.208		5.00	1.20	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.090	5.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.038	0.893-1.208		5.00	3.56	ng/kg	J, B
39001-02-0	OCDF	1	0.594	0.757-1.024		9.99	0.154	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.861	0.757-1.024		9.99	2.01	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	10.7	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	2.30	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	8.43	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	4.30	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	5.88	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	10.5	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	1.44	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	7.86	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 2.48
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.48



Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17D0421-10</u>
Sampled:	<u>04/26/17 12:15</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052217</u>
		Analyzed:	<u>05/22/17 23:49</u>
		Initial/Final:	<u>10.01 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.795	0.655-0.886		57.5	24 - 169 %	
13C12-2,3,7,8-TCDD		0.795	0.655-0.886		56.8	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.613	1.318-1.783		47.2	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.610	1.318-1.783		49.9	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.622	1.318-1.783		50.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.518	0.434-0.587		68.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.525	0.434-0.587		75.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.525	0.434-0.587		70.7	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.532	0.434-0.587		53.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.297	1.054-1.426		65.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.297	1.054-1.426		69.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.457	0.374-0.506		48.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.454	0.374-0.506		72.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.090	0.893-1.208		70.7	23 - 140 %	
13C12-OCDD		0.897	0.757-1.024		84.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			91.3	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb **18 May 2017 15:01:42**
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb **19 May 2017 13:57:26**

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.003	1.001	1.139e4	1.477e4	1.018	0.771	0.770	1166	1626	1.64e5	1.92e5	141.0	YES	NO	bb	dd	1.033
12378-PeCDF	30.135	1.001	2.258e3	1.744e3	0.977	1.295	1.550	2241	2055	3.28e4	2.92e4	14.6	YES	YES	dd	bb	0.198
23478-PeCDF	31.472	1.001	5.118e3	3.345e3	1.019	1.530	1.550	2241	2055	7.25e4	4.94e4	32.3	YES	NO	db	db	0.397
123478-HxCDF	35.166	1.001	1.554e3	1.158e3	1.150	1.342	1.240	1415	1881	2.21e4	1.71e4	15.6	YES	NO	dd	bb	0.208
234678-HxCDF	36.273	1.001	6.752e2	6.671e2	1.188	1.012	1.240	1415	1881	8.39e3	9.05e3	5.9	YES	YES	dd	bb	0.102
123678-HxCDF	35.309	1.001	9.493e2	8.713e2	1.100	1.090	1.240	1415	1881	1.39e4	1.54e4	9.8	YES	NO	db	bb	0.114
123789-HxCDF					1.116		1.240	1415	1881								
1234678-HpCDF	39.562	1.000	2.487e3	2.573e3	1.238	0.967	1.050	849	759	3.24e4	3.19e4	38.1	YES	NO	bb	bb	0.599
1234789-HpCDF					1.257		1.050	849	759								
OCDF	47.448	1.007	2.326e2	3.917e2	1.321	0.594	0.890	595	676	3.99e3	5.45e3	6.7	YES	YES	MM	MM	0.077
2378-TCDD	26.616	1.001	6.663e2	2.260e3	1.244	0.295	0.770	1042	664	1.05e4	3.23e4	10.1	YES	YES	bd	bd	0.185
12378-PeCDD	31.724	1.001	3.773e3	2.894e3	1.058	1.304	1.550	1235	1175	5.17e4	4.20e4	41.9	YES	YES	bd	db	0.566
123478-HxCDD	36.416	1.001	1.029e3	1.001e3	1.119	1.028	1.240	1020	1254	2.04e4	1.23e4	20.0	YES	YES	bd	bd	0.253
123678-HxCDD	36.547	1.001	7.600e3	5.676e3	1.040	1.339	1.240	1020	1254	9.42e4	7.54e4	92.3	YES	NO	dd	db	1.479
123789-HxCDD	36.986	1.013	9.948e2	6.709e2	0.981	1.483	1.240	1020	1254	1.28e4	1.10e4	12.6	YES	YES	bb	dd	0.215
1234678-HpCDD	41.403	1.000	6.618e3	6.378e3	1.132	1.038	1.050	858	676	9.84e4	9.31e4	114.7	YES	NO	bb	bd	1.780
OCDD	47.152	1.000	3.190e3	3.704e3	1.117	0.861	0.890	427	521	3.72e4	3.49e4	87.1	YES	NO	bd	bb	1.007
13C-2378-TCDF	25.974	1.007	1.101e6	1.385e6	1.685	0.795	0.770	6058	3074	1.60e7	2.01e7	2646.5	YES	NO	bb	bb	57.519
13C-12378-PeCDF	30.113	1.167	1.276e6	7.912e5	1.706	1.613	1.550	3178	4168	1.81e7	1.12e7	5696.0	YES	NO	bd	bd	47.239
13C-23478-PeCDF	31.450	1.219	1.290e6	8.011e5	1.632	1.610	1.550	3178	4168	1.90e7	1.20e7	5986.7	YES	NO	bb	bb	49.943
13C-123478-HxCDF	35.144	0.951	3.870e5	7.465e5	1.682	0.518	0.510	4371	3676	4.86e6	9.30e6	1112.6	YES	NO	bd	bd	68.241
13C-123678-HxCDF	35.287	0.955	5.020e5	9.561e5	1.945	0.525	0.510	4371	3676	6.13e6	1.16e7	1402.6	YES	NO	dd	dd	75.907
13C-234678-HxCDF	36.251	0.981	3.802e5	7.244e5	1.582	0.525	0.510	4371	3676	4.60e6	8.67e6	1052.3	YES	NO	bb	bb	70.711
13C-123789-HxCDF	37.424	1.013	2.380e5	4.475e5	1.291	0.532	0.510	4371	3676	3.08e6	5.65e6	703.8	YES	NO	bd	bb	53.791
13C-1234678-HpCDF	39.551	1.070	2.141e5	4.686e5	1.427	0.457	0.440	1671	1792	2.54e6	5.55e6	1522.9	YES	NO	bb	bb	48.473
13C-1234789-HpCDF	42.247	1.143	2.151e5	4.738e5	0.957	0.454	0.440	1671	1792	2.67e6	5.87e6	1595.7	YES	NO	bd	bb	72.905
13C-1234-TCDD	25.794	0.000	1.125e6	1.441e6	1.000	0.781	0.770	3246	1517	1.68e7	2.16e7	5163.5	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.601	1.031	5.633e5	7.086e5	0.873	0.795	0.770	3246	1517	7.83e6	1.00e7	2411.5	YES	NO	bb	bb	56.807
13C-12378-PeCDD	31.702	1.229	6.882e5	4.242e5	0.860	1.622	1.550	1480	1621	9.89e6	6.15e6	6683.1	YES	NO	bb	bb	50.419
13C-123478-HxCDD	36.394	0.985	4.051e5	3.123e5	1.114	1.297	1.240	1569	1686	4.99e6	3.90e6	3177.8	YES	NO	bd	bd	65.246
13C-123678-HxCDD	36.525	0.988	4.872e5	3.757e5	1.258	1.297	1.240	1569	1686	5.95e6	4.72e6	3791.4	YES	NO	db	db	69.448
13C-1234678-HpCDD	41.381	1.120	3.365e5	3.086e5	0.924	1.090	1.050	1459	1249	4.60e6	4.28e6	3151.5	YES	NO	bd	bb	70.746
13C-OCDD	47.143	1.275	5.799e5	6.463e5	0.738	0.897	0.890	1624	1163	5.76e6	6.40e6	3549.1	YES	NO	bd	bd	168.187
13C-123789-HxCDD	36.964	0.000	5.582e5	4.292e5	1.000	1.301	1.240	1569	1686	6.69e6	5.27e6	4265.3	YES	NO	bb	bb	100.000
Total-tetrafurans			5.895e4		1.018			1166		8.22e5							5.376

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

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
Total-penta1			1.258e4					475		1.86e5							1.133
Total-pentafurans			3.825e4		0.998			2241		5.17e5							3.088
Total-hexafurans			2.034e4		1.138			1415		2.64e5							2.941
Total-heptafurans			2.835e3		1.248			849		3.85e4							0.722
Total-Furans			1.344e5		1.138			1166		1.85e6							13.447
Total-tetradioxins			7.452e3		1.244			1042		1.12e5							1.152
Total-pentadioxins			1.527e4		1.058			1235		2.05e5							2.153
Total-hexadioxins			2.459e4		1.047			1020		2.82e5							5.250
Total-heptadioxins			1.466e4		1.132			858		2.15e5							3.932
Total-Dioxins			6.543e4		1.099			1042		8.56e5							13.550
Total-TEQ			1.998e5					1042		2.71e6							26.997
37CL-2378-TCDD	26.631	1.032	9.568e5		1.021			1128		1.35e7		12007.3	YES		bb		36.521
FUNCTION1 PFK			6.963e6					625470		4.31e7							
FUNCTION2 PFK			0.000e0					126667		0.00e0							0.000
FUNCTION3 PFK			2.148e7					345592		1.69e8							
FUNCTION4 PFK			1.311e7					183906		1.16e8							
FUNCTION5 PFK			0.000e0					173656		0.00e0							
FUNCTION1 HXCD...			1.331e5					1420		1.93e6							0.000
FUNCTION1 HPCD...			3.814e3					437		6.21e4							0.000
FUNCTION2 HPCD...			3.572e2					532		6.74e3							0.000
FUNCTION3 OCDPE			0.000e0					260		0.00e0							
FUNCTION4 NCDPE			1.559e3					410		2.12e4							0.000
FUNCTION5 DCDPE			0.000e0					281		0.00e0							

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.09	1.908e3	2.762e3	1.018	0.69	0.77	22.8	YES	NO	db	dd	0.184
2	Total-tetrafurans	24.90	6.980e3	9.061e3	1.018	0.77	0.77	93.4	YES	NO	dd	dd	0.634
3	Total-tetrafurans	24.67	7.604e3	8.662e3	1.018	0.88	0.77	80.9	YES	NO	bd	bd	0.642
4	Total-tetrafurans	24.23	4.623e2	4.351e2	1.018	1.06	0.77	6.6	YES	YES	db	bd	0.035
5	Total-tetrafurans	24.00	2.263e3	2.543e3	1.018	0.89	0.77	23.7	YES	YES	dd	db	0.190
6	Total-tetrafurans	23.75	6.122e3	8.568e3	1.018	0.71	0.77	70.3	YES	NO	dd	dd	0.580
7	Total-tetrafurans	23.64	3.357e3	3.798e3	1.018	0.88	0.77	39.2	YES	NO	dd	dd	0.283
8	Total-tetrafurans	23.52	3.871e3	4.728e3	1.018	0.82	0.77	40.4	YES	NO	dd	dd	0.340
9	Total-tetrafurans	23.34	2.024e3	2.972e3	1.018	0.68	0.77	28.9	YES	NO	bd	bd	0.197
10	Total-tetrafurans	22.49	2.447e3	3.325e3	1.018	0.74	0.77	27.8	YES	NO	bb	bd	0.228
11	Total-tetrafurans	27.21	8.244e2	9.381e2	1.018	0.88	0.77	9.6	YES	NO	bb	bb	0.070
12	Total-tetrafurans	26.23	5.399e3	9.234e3	1.018	0.58	0.77	75.3	YES	YES	bb	dd	0.578
13	2378-TCDF	26.00	1.139e4	1.477e4	1.018	0.77	0.77	141.0	YES	NO	bb	dd	1.033
14	Total-tetrafurans	25.81	2.424e3	2.796e3	1.018	0.87	0.77	24.6	YES	NO	MM	MM	0.206
15	Total-tetrafurans	25.32	1.873e3	2.578e3	1.018	0.73	0.77	20.7	YES	NO	bb	db	0.176

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.41	1.137e4	8.229e3		1.38	1.55	337.0	YES	NO	dd	db	1.028
2	Total-penta1	27.32	1.210e3	7.846e2		1.54	1.55	55.0	YES	NO	bd	bd	0.105

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.85	4.598e3	3.093e3	0.998	1.49	1.55	15.4	YES	NO	dd	MM	0.371
2	Total-pentafurans	28.62	5.170e2	5.166e2	0.998	1.00	1.55	3.9	YES	YES	bd	bd	0.050
3	Total-pentafurans	30.43	8.747e2	7.526e2	0.998	1.16	1.55	7.3	YES	YES	dd	dd	0.078
4	Total-pentafurans	30.34	2.546e3	1.661e3	0.998	1.53	1.55	12.6	YES	NO	MM	bd	0.203
5	12378-PeCDF	30.14	2.258e3	1.744e3	0.977	1.29	1.55	14.6	YES	YES	dd	bb	0.198
6	Total-pentafurans	29.77	4.803e3	3.084e3	0.998	1.56	1.55	22.6	YES	NO	db	MM	0.380
7	Total-pentafurans	29.05	8.800e3	6.143e3	0.998	1.43	1.55	54.5	YES	NO	dd	dd	0.720
8	Total-pentafurans	28.98	5.965e3	3.853e3	0.998	1.55	1.55	47.7	YES	NO	dd	dd	0.473
9	23478-PeCDF	31.47	5.118e3	3.345e3	1.019	1.53	1.55	32.3	YES	NO	db	db	0.397
10	Total-pentafurans	31.32	9.216e2	6.232e2	0.998	1.48	1.55	6.9	YES	NO	dd	dd	0.074
11	Total-pentafurans	31.20	1.851e3	1.108e3	0.998	1.67	1.55	12.7	YES	NO	dd	bd	0.143

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.63	9.222e3	8.051e3	1.138	1.15	1.24	82.4	YES	NO	dd	dd	1.385
2	Total-hexafurans	33.42	3.020e3	2.639e3	1.138	1.14	1.24	29.6	YES	NO	dd	bd	0.454
3	234678-HxCDF	36.27	6.752e2	6.671e2	1.188	1.01	1.24	5.9	YES	YES	dd	bb	0.102
4	123678-HxCDF	35.31	9.493e2	8.713e2	1.100	1.09	1.24	9.8	YES	NO	db	bb	0.114
5	123478-HxCDF	35.17	1.554e3	1.158e3	1.150	1.34	1.24	15.6	YES	NO	dd	bb	0.208
6	Total-hexafurans	34.51	4.921e3	3.532e3	1.138	1.39	1.24	43.0	YES	NO	bb	bb	0.678

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	40.37	3.482e2	7.091e2	1.248	0.49	1.05	7.2	YES	YES	bb	bb	0.124
2	1234678-HpCDF	39.56	2.487e3	2.573e3	1.238	0.97	1.05	38.1	YES	NO	bb	bb	0.599

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.09	1.908e3	2.762e3	1.018	0.69	0.77	22.8	YES	NO	db	dd	0.184
2	Total-tetrafurans	24.90	6.980e3	9.061e3	1.018	0.77	0.77	93.4	YES	NO	dd	dd	0.634
3	Total-tetrafurans	24.67	7.604e3	8.662e3	1.018	0.88	0.77	80.9	YES	NO	bd	bd	0.642
4	Total-tetrafurans	24.23	4.623e2	4.351e2	1.018	1.06	0.77	6.6	YES	YES	db	bd	0.035
5	Total-tetrafurans	24.00	2.263e3	2.543e3	1.018	0.89	0.77	23.7	YES	YES	dd	db	0.190
6	Total-tetrafurans	23.75	6.122e3	8.568e3	1.018	0.71	0.77	70.3	YES	NO	dd	dd	0.580
7	Total-tetrafurans	23.64	3.357e3	3.798e3	1.018	0.88	0.77	39.2	YES	NO	dd	dd	0.283
8	Total-tetrafurans	23.52	3.871e3	4.728e3	1.018	0.82	0.77	40.4	YES	NO	dd	dd	0.340
9	Total-tetrafurans	23.34	2.024e3	2.972e3	1.018	0.68	0.77	28.9	YES	NO	bd	bd	0.197
10	Total-tetrafurans	22.49	2.447e3	3.325e3	1.018	0.74	0.77	27.8	YES	NO	bb	bd	0.228
11	Total-Furans	21.60	1.269e2	2.814e2	1.138	0.45	0.77	2.4	NO	YES	db	db	0.014
12	Total-Furans	21.45	3.216e2	7.164e2	1.138	0.45	0.77	5.5	YES	YES	dd	bd	0.037
13	Total-Furans	28.08	2.403e2	3.769e2	1.138	0.64	0.77	3.4	YES	YES	bb	db	0.022
14	Total-Furans	27.93	5.260e2	5.323e2	1.138	0.99	0.77	8.0	YES	YES	bb	bd	0.037
15	Total-tetrafurans	27.21	8.244e2	9.381e2	1.018	0.88	0.77	9.6	YES	NO	bb	bb	0.070
16	Total-tetrafurans	26.23	5.399e3	9.234e3	1.018	0.58	0.77	75.3	YES	YES	bb	dd	0.578
17	2378-TCDF	26.00	1.139e4	1.477e4	1.018	0.77	0.77	141.0	YES	NO	bb	dd	1.033
18	Total-tetrafurans	25.81	2.424e3	2.796e3	1.018	0.87	0.77	24.6	YES	NO	MM	MM	0.206
19	Total-tetrafurans	25.32	1.873e3	2.578e3	1.018	0.73	0.77	20.7	YES	NO	bb	db	0.176
20	Total-pentafurans	28.85	4.598e3	3.093e3	0.998	1.49	1.55	15.4	YES	NO	dd	MM	0.371
21	Total-pentafurans	28.62	5.170e2	5.166e2	0.998	1.00	1.55	3.9	YES	YES	bd	bd	0.050
22	Total-pentafurans	30.43	8.747e2	7.526e2	0.998	1.16	1.55	7.3	YES	YES	dd	dd	0.078
23	Total-pentafurans	30.34	2.546e3	1.661e3	0.998	1.53	1.55	12.6	YES	NO	MM	bd	0.203
24	12378-PeCDF	30.14	2.258e3	1.744e3	0.977	1.29	1.55	14.6	YES	YES	dd	bb	0.198
25	Total-pentafurans	29.77	4.803e3	3.084e3	0.998	1.56	1.55	22.6	YES	NO	db	MM	0.380
26	Total-pentafurans	29.05	8.800e3	6.143e3	0.998	1.43	1.55	54.5	YES	NO	dd	dd	0.720
27	Total-pentafurans	28.98	5.965e3	3.853e3	0.998	1.55	1.55	47.7	YES	NO	dd	dd	0.473
28	23478-PeCDF	31.47	5.118e3	3.345e3	1.019	1.53	1.55	32.3	YES	NO	db	db	0.397
29	Total-pentafurans	31.32	9.216e2	6.232e2	0.998	1.48	1.55	6.9	YES	NO	dd	dd	0.074
30	Total-pentafurans	31.20	1.851e3	1.108e3	0.998	1.67	1.55	12.7	YES	NO	dd	bd	0.143
31	Total-hexafurans	33.63	9.222e3	8.051e3	1.138	1.15	1.24	82.4	YES	NO	dd	dd	1.385
32	Total-hexafurans	33.42	3.020e3	2.639e3	1.138	1.14	1.24	29.6	YES	NO	dd	bd	0.454
33	234678-HxCDF	36.27	6.752e2	6.671e2	1.188	1.01	1.24	5.9	YES	YES	dd	bb	0.102
34	123678-HxCDF	35.31	9.493e2	8.713e2	1.100	1.09	1.24	9.8	YES	NO	db	bb	0.114
35	123478-HxCDF	35.17	1.554e3	1.158e3	1.150	1.34	1.24	15.6	YES	NO	dd	bb	0.208
36	Total-hexafurans	34.51	4.921e3	3.532e3	1.138	1.39	1.24	43.0	YES	NO	bb	bb	0.678
37	Total-heptafurans	40.37	3.482e2	7.091e2	1.248	0.49	1.05	7.2	YES	YES	bb	bb	0.124
38	1234678-HpCDF	39.56	2.487e3	2.573e3	1.238	0.97	1.05	38.1	YES	NO	bb	bb	0.599
39	OCDF	47.45	2.326e2	3.917e2	1.321	0.59	0.89	6.7	YES	YES	MM	MM	0.077
40	Total-penta1	27.41	1.137e4	8.229e3	1.38	1.55	337.0	YES	NO	dd	db	1.028	
41	Total-penta1	27.32	1.210e3	7.846e2	1.54	1.55	55.0	YES	NO	bd	bd	0.105	

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.03	8.333e2	1.260e3	1.244	0.66	0.77	12.5	YES	NO	bb	dd	0.132
2	Total-tetradoxins	23.78	3.312e2	5.534e2	1.244	0.60	0.77	4.6	YES	YES	bb	bd	0.056
3	Total-tetradoxins	26.75	5.724e2	5.615e2	1.244	1.02	0.77	11.2	YES	YES	db	db	0.072
4	2378-TCDD	26.62	6.663e2	2.260e3	1.244	0.29	0.77	10.1	YES	YES	bd	bd	0.185
5	Total-tetradoxins	26.24	2.710e3	3.460e3	1.244	0.78	0.77	35.6	YES	NO	bb	bb	0.390
6	Total-tetradoxins	25.97	3.234e2	9.590e1	1.244	3.37	0.77	5.4	YES	YES	bb	bb	0.026
7	Total-tetradoxins	25.26	8.920e2	1.338e3	1.244	0.67	0.77	12.9	YES	NO	bb	bb	0.141
8	Total-tetradoxins	25.08	3.459e2	4.887e2	1.244	0.71	0.77	4.3	YES	NO	db	db	0.053
9	Total-tetradoxins	24.96	7.776e2	7.604e2	1.244	1.02	0.77	10.9	YES	YES	bd	dd	0.097

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	29.01	1.325e3	8.577e2	1.058	1.54	1.55	13.3	YES	NO	bb	MM	0.185
2	Total-pentadoxins	32.14	4.106e2	1.734e2	1.058	2.37	1.55	5.0	YES	YES	bb	bb	0.050
3	12378-PeCDD	31.72	3.773e3	2.894e3	1.058	1.30	1.55	41.9	YES	YES	bd	db	0.566
4	Total-pentadoxins	31.06	1.152e3	9.129e2	1.058	1.26	1.55	14.0	YES	YES	bb	bd	0.175
5	Total-pentadoxins	30.67	1.003e3	5.621e2	1.058	1.78	1.55	14.1	YES	YES	bb	bb	0.133
6	Total-pentadoxins	30.47	6.814e2	3.682e2	1.058	1.85	1.55	7.8	YES	YES	db	db	0.089
7	Total-pentadoxins	30.35	5.324e3	3.081e3	1.058	1.73	1.55	49.8	YES	NO	bd	bd	0.714
8	Total-pentadoxins	30.14	1.605e3	1.222e3	1.058	1.31	1.55	19.7	YES	YES	bb	MM	0.240

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadoxins	36.72	6.210e2	2.566e2	1.047	2.42	1.24	7.5	YES	YES	db	bb	0.106
2	123678-HxCDD	36.55	7.600e3	5.676e3	1.040	1.34	1.24	92.3	YES	NO	dd	db	1.479
3	123478-HxCDD	36.42	1.029e3	1.001e3	1.119	1.03	1.24	20.0	YES	YES	bd	bd	0.253
4	Total-hexadoxins	35.42	1.062e4	9.143e3	1.047	1.16	1.24	97.6	YES	NO	bb	bb	2.389
5	Total-hexadoxins	35.03	1.075e3	5.899e2	1.047	1.82	1.24	16.1	YES	YES	bb	dd	0.201
6	Total-hexadoxins	34.23	2.652e3	2.361e3	1.047	1.12	1.24	30.1	YES	NO	bb	bb	0.606
7	123789-HxCDD	36.99	9.948e2	6.709e2	0.981	1.48	1.24	12.6	YES	YES	bb	dd	0.215

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.40	6.618e3	6.378e3	1.132	1.04	1.05	114.7	YES	NO	bb	bd	1.780
2	Total-heptadoxins	40.14	8.044e3	7.672e3	1.132	1.05	1.05	136.5	YES	NO	bb	bb	2.152

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.03	8.333e2	1.260e3	1.244	0.66	0.77	12.5	YES	NO	bb	dd	0.132
2	Total-tetradoxins	23.78	3.312e2	5.534e2	1.244	0.60	0.77	4.6	YES	YES	bb	bd	0.056
3	Total-Dioxins	28.26	2.604e2	5.286e2	1.099	0.49	0.77	5.1	YES	YES	bb	bb	0.056
4	Total-tetradoxins	26.75	5.724e2	5.615e2	1.244	1.02	0.77	11.2	YES	YES	db	db	0.072
5	2378-TCDD	26.62	6.663e2	2.260e3	1.244	0.29	0.77	10.1	YES	YES	bd	bd	0.185
6	Total-tetradoxins	26.24	2.710e3	3.460e3	1.244	0.78	0.77	35.6	YES	NO	bb	bb	0.390
7	Total-tetradoxins	25.97	3.234e2	9.590e1	1.244	3.37	0.77	5.4	YES	YES	bb	bb	0.026
8	Total-tetradoxins	25.26	8.920e2	1.338e3	1.244	0.67	0.77	12.9	YES	NO	bb	bb	0.141
9	Total-tetradoxins	25.08	3.459e2	4.887e2	1.244	0.71	0.77	4.3	YES	NO	db	db	0.053
10	Total-tetradoxins	24.96	7.776e2	7.604e2	1.244	1.02	0.77	10.9	YES	YES	bd	dd	0.097
11	Total-pentadoxins	29.01	1.325e3	8.577e2	1.058	1.54	1.55	13.3	YES	NO	bb	MM	0.185
12	Total-pentadoxins	32.14	4.106e2	1.734e2	1.058	2.37	1.55	5.0	YES	YES	bb	bb	0.050
13	12378-PeCDD	31.72	3.773e3	2.894e3	1.058	1.30	1.55	41.9	YES	YES	bd	db	0.566
14	Total-pentadoxins	31.06	1.152e3	9.129e2	1.058	1.26	1.55	14.0	YES	YES	bb	bd	0.175
15	Total-pentadoxins	30.67	1.003e3	5.621e2	1.058	1.78	1.55	14.1	YES	YES	bb	bb	0.133
16	Total-pentadoxins	30.47	6.814e2	3.682e2	1.058	1.85	1.55	7.8	YES	YES	db	db	0.089
17	Total-pentadoxins	30.35	5.324e3	3.081e3	1.058	1.73	1.55	49.8	YES	NO	bd	bd	0.714
18	Total-pentadoxins	30.14	1.605e3	1.222e3	1.058	1.31	1.55	19.7	YES	YES	bb	MM	0.240
19	Total-hexadoxins	36.72	6.210e2	2.566e2	1.047	2.42	1.24	7.5	YES	YES	db	bb	0.106
20	123678-HxCDD	36.55	7.600e3	5.676e3	1.040	1.34	1.24	92.3	YES	NO	dd	db	1.479
21	123478-HxCDD	36.42	1.029e3	1.001e3	1.119	1.03	1.24	20.0	YES	YES	bd	bd	0.253
22	Total-hexadoxins	35.42	1.062e4	9.143e3	1.047	1.16	1.24	97.6	YES	NO	bb	bb	2.389
23	Total-hexadoxins	35.03	1.075e3	5.899e2	1.047	1.82	1.24	16.1	YES	YES	bb	dd	0.201
24	Total-hexadoxins	34.23	2.652e3	2.361e3	1.047	1.12	1.24	30.1	YES	NO	bb	bb	0.606
25	123789-HxCDD	36.99	9.948e2	6.709e2	0.981	1.48	1.24	12.6	YES	YES	bb	dd	0.215
26	1234678-HpCDD	41.40	6.618e3	6.378e3	1.132	1.04	1.05	114.7	YES	NO	bb	bd	1.780
27	Total-heptadoxins	40.14	8.044e3	7.672e3	1.132	1.05	1.05	136.5	YES	NO	bb	bb	2.152
28	OCDD	47.15	3.190e3	3.704e3	1.117	0.86	0.89	87.1	YES	NO	bd	bb	1.007

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.09	1.908e3	2.762e3	1.018	0.69	0.77	22.8	YES	NO	db	dd	0.184
2	Total-tetrafurans	24.90	6.980e3	9.061e3	1.018	0.77	0.77	93.4	YES	NO	dd	dd	0.634
3	Total-tetrafurans	24.67	7.604e3	8.662e3	1.018	0.88	0.77	80.9	YES	NO	bd	bd	0.642
4	Total-tetrafurans	24.23	4.623e2	4.351e2	1.018	1.06	0.77	6.6	YES	YES	db	bd	0.035
5	Total-tetrafurans	24.00	2.263e3	2.543e3	1.018	0.89	0.77	23.7	YES	YES	dd	db	0.190
6	Total-tetrafurans	23.75	6.122e3	8.568e3	1.018	0.71	0.77	70.3	YES	NO	dd	dd	0.580
7	Total-tetrafurans	23.64	3.357e3	3.798e3	1.018	0.88	0.77	39.2	YES	NO	dd	dd	0.283
8	Total-tetrafurans	23.52	3.871e3	4.728e3	1.018	0.82	0.77	40.4	YES	NO	dd	dd	0.340
9	Total-tetrafurans	23.34	2.024e3	2.972e3	1.018	0.68	0.77	28.9	YES	NO	bd	bd	0.197
10	Total-tetrafurans	22.49	2.447e3	3.325e3	1.018	0.74	0.77	27.8	YES	NO	bb	bd	0.228
11	Total-Furans	21.60	1.269e2	2.814e2	1.138	0.45	0.77	2.4	NO	YES	db	db	0.014
12	Total-Furans	21.45	3.216e2	7.164e2	1.138	0.45	0.77	5.5	YES	YES	dd	bd	0.037
13	Total-Furans	28.08	2.403e2	3.769e2	1.138	0.64	0.77	3.4	YES	YES	bb	db	0.022
14	Total-Furans	27.93	5.260e2	5.323e2	1.138	0.99	0.77	8.0	YES	YES	bb	bd	0.037
15	Total-tetrafurans	27.21	8.244e2	9.381e2	1.018	0.88	0.77	9.6	YES	NO	bb	bb	0.070
16	Total-tetrafurans	26.23	5.399e3	9.234e3	1.018	0.58	0.77	75.3	YES	YES	bb	dd	0.578
17	2378-TCDF	26.00	1.139e4	1.477e4	1.018	0.77	0.77	141.0	YES	NO	bb	dd	1.033
18	Total-tetrafurans	25.81	2.424e3	2.796e3	1.018	0.87	0.77	24.6	YES	NO	MM	MM	0.206
19	Total-tetrafurans	25.32	1.873e3	2.578e3	1.018	0.73	0.77	20.7	YES	NO	bb	db	0.176
20	Total-pentafurans	28.85	4.598e3	3.093e3	0.998	1.49	1.55	15.4	YES	NO	dd	MM	0.371
21	Total-pentafurans	28.62	5.170e2	5.166e2	0.998	1.00	1.55	3.9	YES	YES	bd	bd	0.050
22	Total-pentafurans	30.43	8.747e2	7.526e2	0.998	1.16	1.55	7.3	YES	YES	dd	dd	0.078
23	Total-pentafurans	30.34	2.546e3	1.661e3	0.998	1.53	1.55	12.6	YES	NO	MM	bd	0.203
24	12378-PeCDF	30.14	2.258e3	1.744e3	0.977	1.29	1.55	14.6	YES	YES	dd	bb	0.198
25	Total-pentafurans	29.77	4.803e3	3.084e3	0.998	1.56	1.55	22.6	YES	NO	db	MM	0.380
26	Total-pentafurans	29.05	8.800e3	6.143e3	0.998	1.43	1.55	54.5	YES	NO	dd	dd	0.720
27	Total-pentafurans	28.98	5.965e3	3.853e3	0.998	1.55	1.55	47.7	YES	NO	dd	dd	0.473
28	23478-PeCDF	31.47	5.118e3	3.345e3	1.019	1.53	1.55	32.3	YES	NO	db	db	0.397
29	Total-pentafurans	31.32	9.216e2	6.232e2	0.998	1.48	1.55	6.9	YES	NO	dd	dd	0.074
30	Total-pentafurans	31.20	1.851e3	1.108e3	0.998	1.67	1.55	12.7	YES	NO	dd	bd	0.143
31	Total-hexafurans	33.63	9.222e3	8.051e3	1.138	1.15	1.24	82.4	YES	NO	dd	dd	1.385
32	Total-hexafurans	33.42	3.020e3	2.639e3	1.138	1.14	1.24	29.6	YES	NO	dd	bd	0.454
33	234678-HxCDF	36.27	6.752e2	6.671e2	1.188	1.01	1.24	5.9	YES	YES	dd	bb	0.102
34	123678-HxCDF	35.31	9.493e2	8.713e2	1.100	1.09	1.24	9.8	YES	NO	db	bb	0.114
35	123478-HxCDF	35.17	1.554e3	1.158e3	1.150	1.34	1.24	15.6	YES	NO	dd	bb	0.208
36	Total-hexafurans	34.51	4.921e3	3.532e3	1.138	1.39	1.24	43.0	YES	NO	bb	bb	0.678
37	Total-heptafurans	40.37	3.482e2	7.091e2	1.248	0.49	1.05	7.2	YES	YES	bb	bb	0.124
38	1234678-HpCDF	39.56	2.487e3	2.573e3	1.238	0.97	1.05	38.1	YES	NO	bb	bb	0.599
39	OCDF	47.45	2.326e2	3.917e2	1.321	0.59	0.89	6.7	YES	YES	MM	MM	0.077
40	Total-penta1	27.41	1.137e4	8.229e3		1.38	1.55	337.0	YES	NO	dd	db	1.028
41	Total-penta1	27.32	1.210e3	7.846e2		1.54	1.55	55.0	YES	NO	bd	bd	0.105
42	Total-tetradiioxins	24.03	8.333e2	1.260e3	1.244	0.66	0.77	12.5	YES	NO	bb	dd	0.132
43	Total-tetradiioxins	23.78	3.312e2	5.534e2	1.244	0.60	0.77	4.6	YES	YES	bb	bd	0.056
44	Total-Dioxins	28.26	2.604e2	5.286e2	1.099	0.49	0.77	5.1	YES	YES	bb	bb	0.056
45	Total-tetradiioxins	26.75	5.724e2	5.615e2	1.244	1.02	0.77	11.2	YES	YES	db	db	0.072
46	2378-TCDD	26.62	6.663e2	2.260e3	1.244	0.29	0.77	10.1	YES	YES	bd	bd	0.185
47	Total-tetradiioxins	26.24	2.710e3	3.460e3	1.244	0.78	0.77	35.6	YES	NO	bb	bb	0.390
48	Total-tetradiioxins	25.97	3.234e2	9.590e1	1.244	3.37	0.77	5.4	YES	YES	bb	bb	0.026
49	Total-tetradiioxins	25.26	8.920e2	1.338e3	1.244	0.67	0.77	12.9	YES	NO	bb	bb	0.141
50	Total-tetradiioxins	25.08	3.459e2	4.887e2	1.244	0.71	0.77	4.3	YES	NO	db	db	0.053
51	Total-tetradiioxins	24.96	7.776e2	7.604e2	1.244	1.02	0.77	10.9	YES	YES	bd	dd	0.097

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
52	Total-pentadioxins	29.01	1.325e3	8.577e2	1.058	1.54	1.55	13.3	YES	NO	bb	MM	0.185
53	Total-pentadioxins	32.14	4.106e2	1.734e2	1.058	2.37	1.55	5.0	YES	YES	bb	bb	0.050
54	12378-PeCDD	31.72	3.773e3	2.894e3	1.058	1.30	1.55	41.9	YES	YES	bd	db	0.566
55	Total-pentadioxins	31.06	1.152e3	9.129e2	1.058	1.26	1.55	14.0	YES	YES	bb	bd	0.175
56	Total-pentadioxins	30.67	1.003e3	5.621e2	1.058	1.78	1.55	14.1	YES	YES	bb	bb	0.133
57	Total-pentadioxins	30.47	6.814e2	3.682e2	1.058	1.85	1.55	7.8	YES	YES	db	db	0.089
58	Total-pentadioxins	30.35	5.324e3	3.081e3	1.058	1.73	1.55	49.8	YES	NO	bd	bd	0.714
59	Total-pentadioxins	30.14	1.605e3	1.222e3	1.058	1.31	1.55	19.7	YES	YES	bb	MM	0.240
60	Total-hexadioxins	36.72	6.210e2	2.566e2	1.047	2.42	1.24	7.5	YES	YES	db	bb	0.106
61	123678-HxCDD	36.55	7.600e3	5.676e3	1.040	1.34	1.24	92.3	YES	NO	dd	db	1.479
62	123478-HxCDD	36.42	1.029e3	1.001e3	1.119	1.03	1.24	20.0	YES	YES	bd	bd	0.253
63	Total-hexadioxins	35.42	1.062e4	9.143e3	1.047	1.16	1.24	97.6	YES	NO	bb	bb	2.389
64	Total-hexadioxins	35.03	1.075e3	5.899e2	1.047	1.82	1.24	16.1	YES	YES	bb	dd	0.201
65	Total-hexadioxins	34.23	2.652e3	2.361e3	1.047	1.12	1.24	30.1	YES	NO	bb	bb	0.606
66	123789-HxCDD	36.99	9.948e2	6.709e2	0.981	1.48	1.24	12.6	YES	YES	bb	dd	0.215
67	1234678-HpCDD	41.40	6.618e3	6.378e3	1.132	1.04	1.05	114.7	YES	NO	bb	bd	1.780
68	Total-heptadioxins	40.14	8.044e3	7.672e3	1.132	1.05	1.05	136.5	YES	NO	bb	bb	2.152
69	OCDD	47.15	3.190e3	3.704e3	1.117	0.86	0.89	87.1	YES	NO	bd	bb	1.007

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.27	5.576e4					2.1	NO		bb		
2	FUNCTION1 PFK	22.03	7.837e4					1.9	NO		bb		
3	FUNCTION1 PFK	27.48	2.509e5					4.9	YES		bb		
4	FUNCTION1 PFK	27.18	2.396e6					3.4	YES		bb		
5	FUNCTION1 PFK	26.60	1.204e6					13.7	YES		db		
6	FUNCTION1 PFK	26.33	1.288e6					8.9	YES		dd		
7	FUNCTION1 PFK	26.26	3.484e5					7.7	YES		dd		
8	FUNCTION1 PFK	26.14	5.002e5					6.1	YES		bd		
9	FUNCTION1 PFK	24.79	6.320e4					1.6	NO		bb		
10	FUNCTION1 PFK	24.69	6.280e4					2.0	NO		bb		
11	FUNCTION1 PFK	24.58	1.943e4					0.9	NO		bb		
12	FUNCTION1 PFK	24.12	4.058e4					1.3	NO		bb		
13	FUNCTION1 PFK	23.88	1.397e5					2.7	NO		db		
14	FUNCTION1 PFK	23.75	1.157e5					2.6	NO		dd		
15	FUNCTION1 PFK	23.51	2.320e5					2.1	NO		dd		
16	FUNCTION1 PFK	23.46	2.664e4					1.5	NO		bd		
17	FUNCTION1 PFK	23.34	1.456e4					0.9	NO		bb		
18	FUNCTION1 PFK	23.25	3.995e3					0.4	NO		bb		
19	FUNCTION1 PFK	27.92	6.932e4					2.1	NO		db		
20	FUNCTION1 PFK	27.86	5.389e4					2.1	NO		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.57	1.909e6					41.8	YES		db		0.000
2	FUNCTION3 PFK	36.30	5.208e5					20.0	YES		dd		0.000
3	FUNCTION3 PFK	36.19	5.953e5					19.5	YES		bd		0.000
4	FUNCTION3 PFK	35.63	1.156e6					38.3	YES		db		0.000
5	FUNCTION3 PFK	35.46	8.249e5					30.3	YES		dd		0.000
6	FUNCTION3 PFK	35.36	1.379e6					35.4	YES		dd		0.000
7	FUNCTION3 PFK	35.28	5.585e5					25.7	YES		bd		0.000
8	FUNCTION3 PFK	35.17	1.152e5					8.3	YES		db		0.000
9	FUNCTION3 PFK	34.99	1.886e6					31.7	YES		bd		0.000
10	FUNCTION3 PFK	34.74	9.746e5					16.1	YES		bb		0.000
11	FUNCTION3 PFK	34.25	1.074e6					26.5	YES		bb		0.000
12	FUNCTION3 PFK	33.83	1.679e6					8.3	YES		bb		0.000
13	FUNCTION3 PFK	38.38	7.660e5					17.7	YES		bb		0.000
14	FUNCTION3 PFK	38.07	2.948e5					10.7	YES		db		0.000
15	FUNCTION3 PFK	37.88	1.366e6					17.7	YES		bd		0.000
16	FUNCTION3 PFK	37.62	1.083e6					26.1	YES		db		0.000
17	FUNCTION3 PFK	37.42	2.440e6					32.9	YES		dd		0.000
18	FUNCTION3 PFK	37.17	2.607e5					15.2	YES		bd		0.000
19	FUNCTION3 PFK	36.88	1.662e6					33.4	YES		db		0.000
20	FUNCTION3 PFK	36.79	9.359e5					33.8	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.79	1.350e6					41.3	YES		dd		
2	FUNCTION4 PFK	39.63	4.844e5					33.9	YES		dd		
3	FUNCTION4 PFK	39.51	8.546e5					37.6	YES		bd		
4	FUNCTION4 PFK	39.31	1.960e5					16.0	YES		db		
5	FUNCTION4 PFK	39.20	7.744e5					36.1	YES		dd		
6	FUNCTION4 PFK	38.99	6.223e5					25.9	YES		bd		
7	FUNCTION4 PFK	38.71	4.349e5					26.4	YES		bb		
8	FUNCTION4 PFK	43.18	1.724e5					13.2	YES		bb		
9	FUNCTION4 PFK	42.71	4.094e5					16.4	YES		bb		
10	FUNCTION4 PFK	41.84	3.610e5					17.8	YES		bb		
11	FUNCTION4 PFK	41.56	2.174e5					12.0	YES		bb		
12	FUNCTION4 PFK	41.38	3.652e5					27.1	YES		db		
13	FUNCTION4 PFK	41.30	5.396e5					35.9	YES		bd		
14	FUNCTION4 PFK	41.09	6.621e5					35.4	YES		db		
15	FUNCTION4 PFK	41.01	8.894e5					45.0	YES		dd		
16	FUNCTION4 PFK	40.79	1.146e6					43.2	YES		dd		
17	FUNCTION4 PFK	40.72	3.537e5					36.8	YES		bd		
18	FUNCTION4 PFK	40.59	2.527e5					16.9	YES		db		
19	FUNCTION4 PFK	40.38	1.712e6					49.7	YES		dd		
20	FUNCTION4 PFK	40.18	1.201e6					54.4	YES		bd		
21	FUNCTION4 PFK	40.01	1.077e5					10.2	YES		db		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.50	1.379e2					1.5	NO		bb		0.000
2	FUNCTION1 HXCD...	26.05	1.271e5					1296.2	YES		bb		0.000
3	FUNCTION1 HXCD...	25.76	4.157e3					42.7	YES		bb		0.000
4	FUNCTION1 HXCD...	25.00	1.255e2					2.6	NO		bb		0.000
5	FUNCTION1 HXCD...	23.85	2.344e2					3.3	YES		db		0.000
6	FUNCTION1 HXCD...	23.69	1.345e3					14.3	YES		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.46	8.683e1					5.5	YES		bb		0.000
2	FUNCTION1 HPCD...	23.69	1.056e3					40.0	YES		db		0.000
3	FUNCTION1 HPCD...	23.54	1.693e2					5.4	YES		bd		0.000
4	FUNCTION1 HPCD...	22.30	2.373e3					87.3	YES		bb		0.000
5	FUNCTION1 HPCD...	21.13	1.285e2					3.9	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.09	1.252e2					4.0	YES		bb		0.000
2	FUNCTION2 HPCD...	29.18	1.587e2					5.7	YES		db		0.000
3	FUNCTION2 HPCD...	29.09	7.329e1					2.9	NO		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.12	1.559e3					51.7	YES		bb		0.000

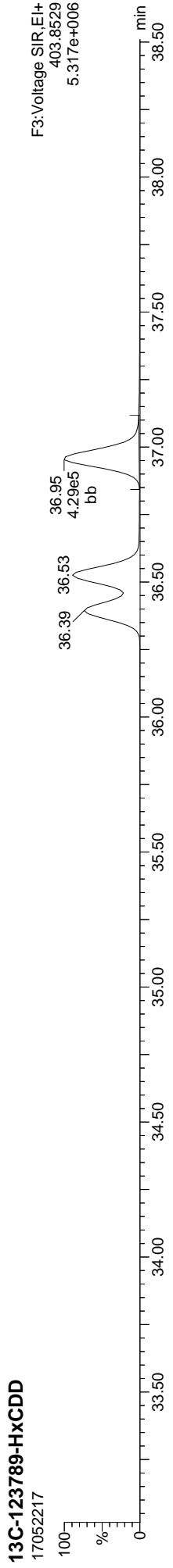
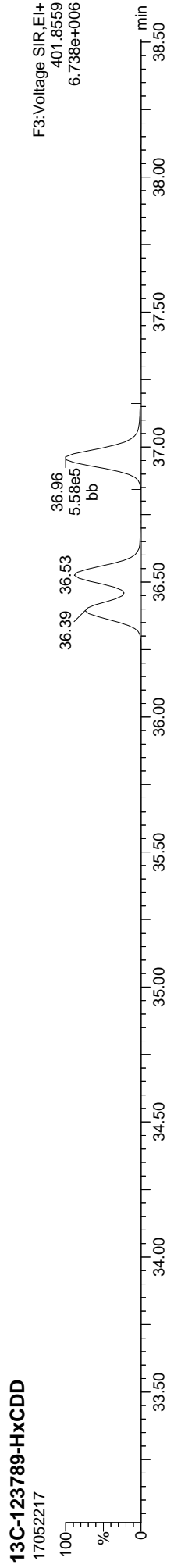
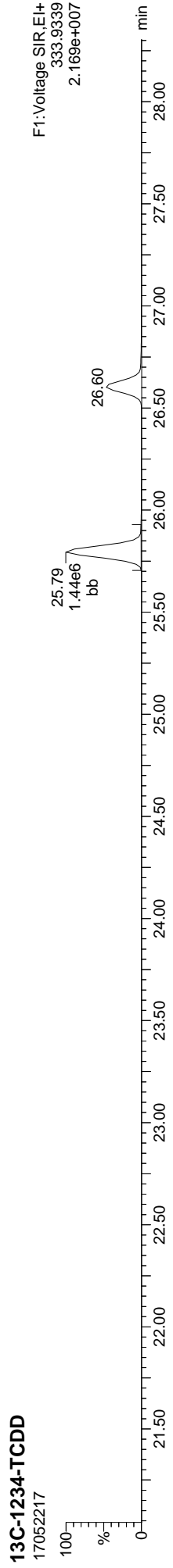
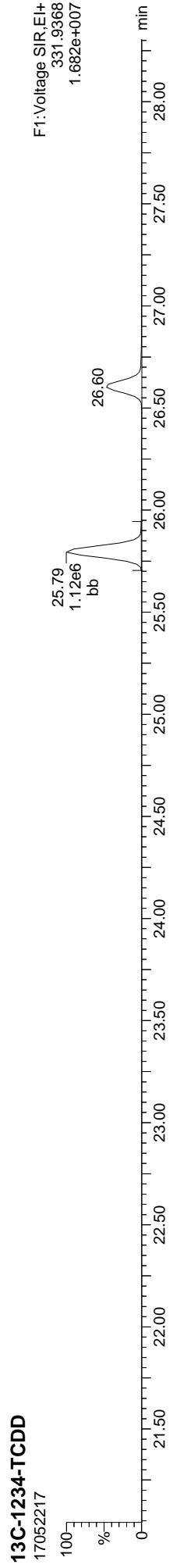
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

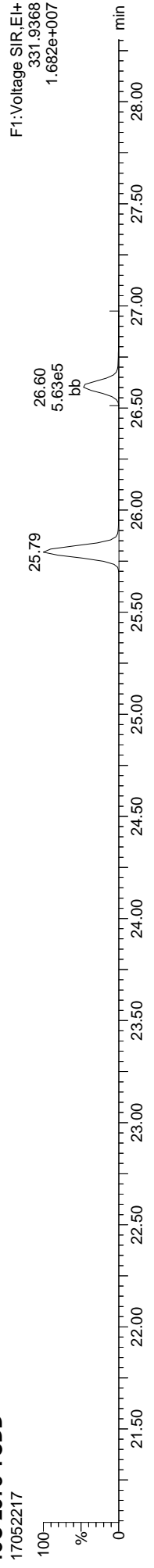
ID: 17D0421-10, **Name:** 17052217, **Date:** 22-May-2017, **Time:** 23:49:10, **Conditions:** AUTOSPEC01, **User:** PK



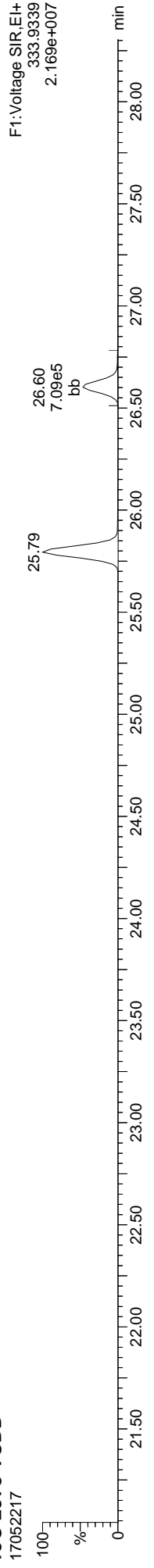
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

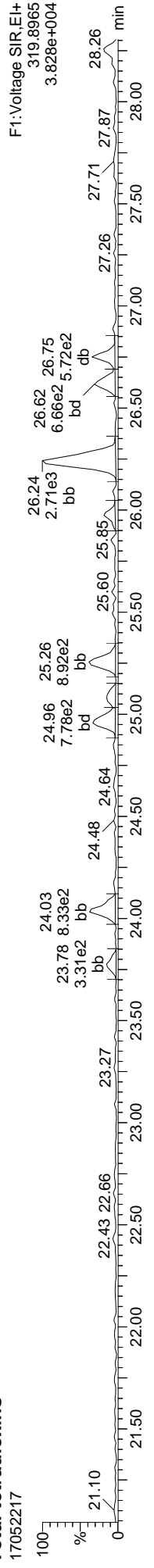
13C-2378-TCDD



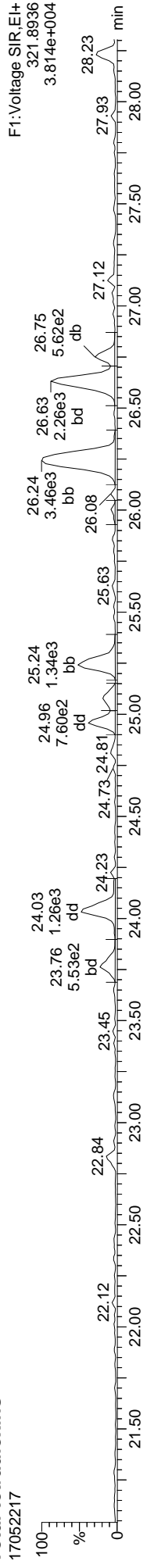
13C-2378-TCDD



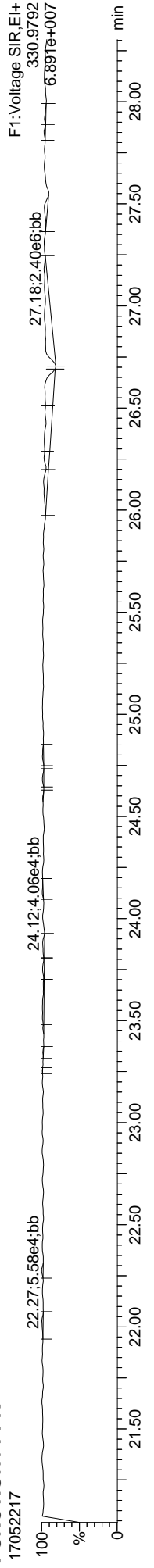
Total-tetradioxins



Total-tetradioxins



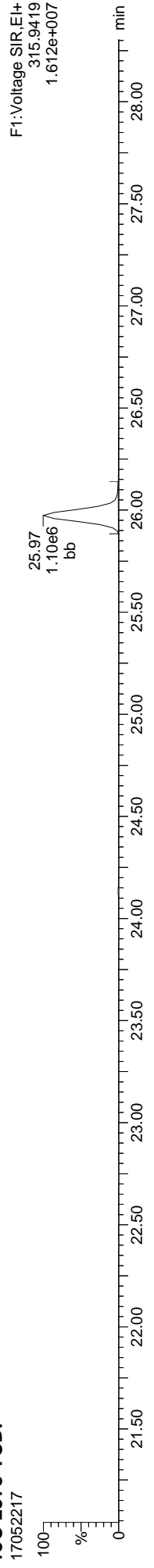
FUNCTION1 PFK



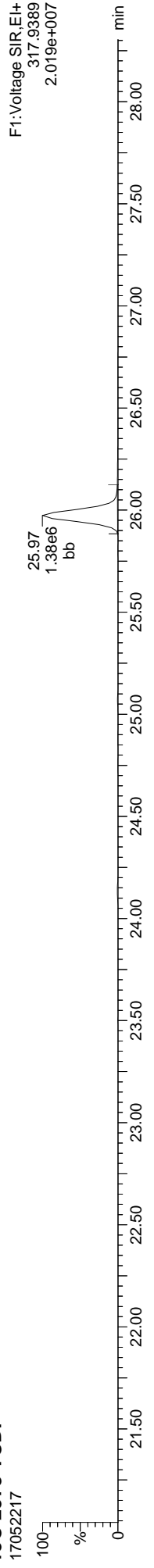
Quantify Sample Report
Dataset: C:\MassLynx\DIoxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

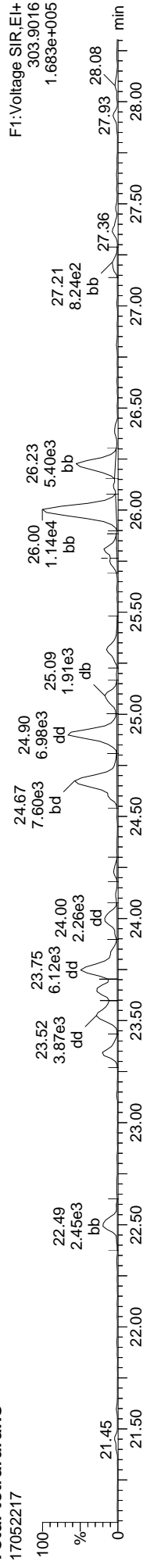
13C-2378-TCDF



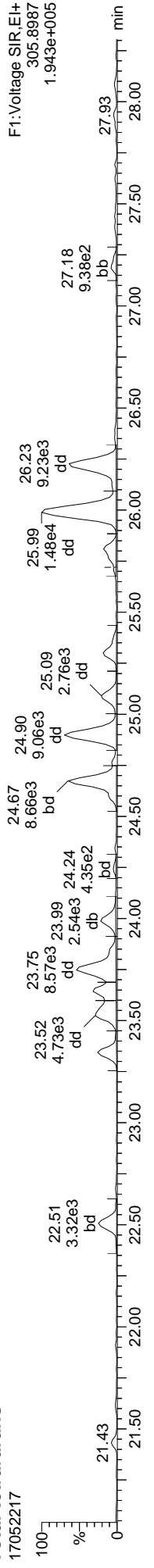
13C-2378-TCDF



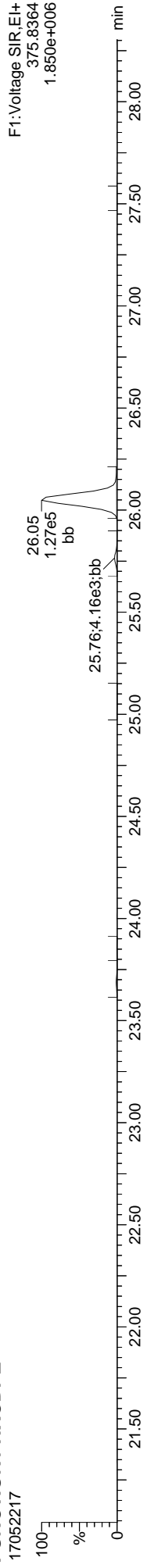
Total-tetrafurans



Total-tetrafurans



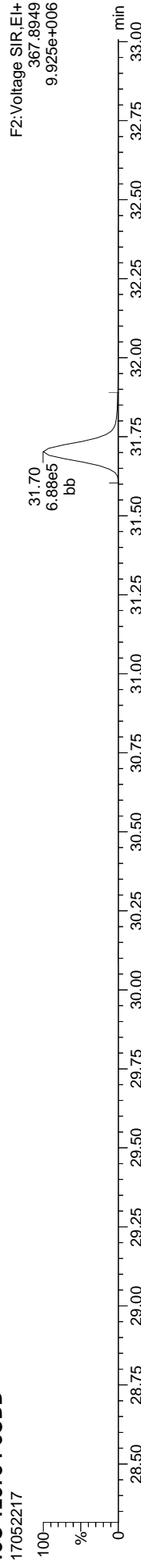
FUNCTION1 HXCDFE



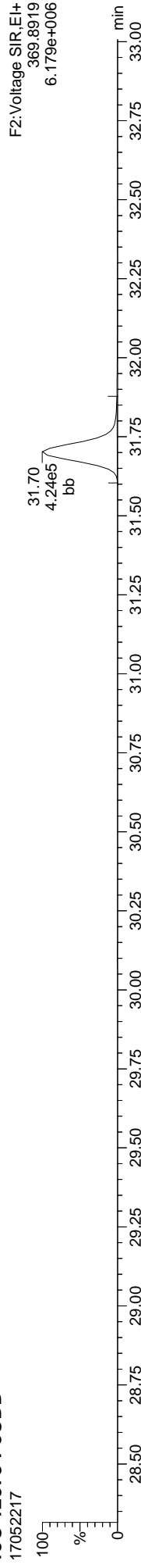
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 170522217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

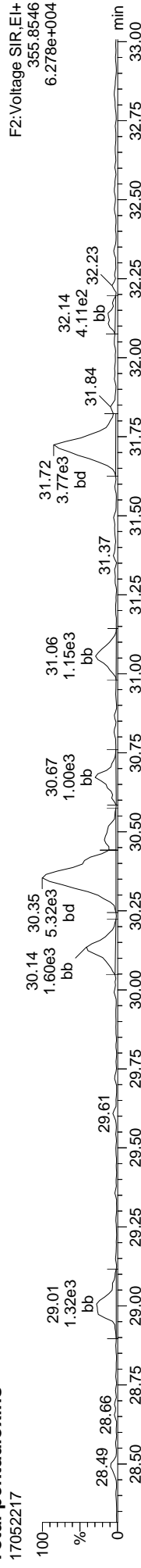
13C-12378-PeCDD



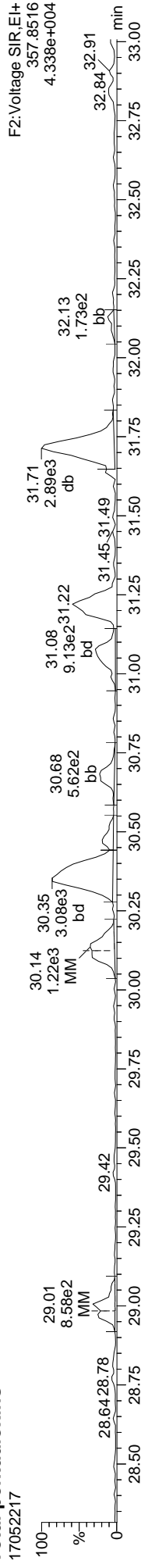
13C-12378-PeCDD



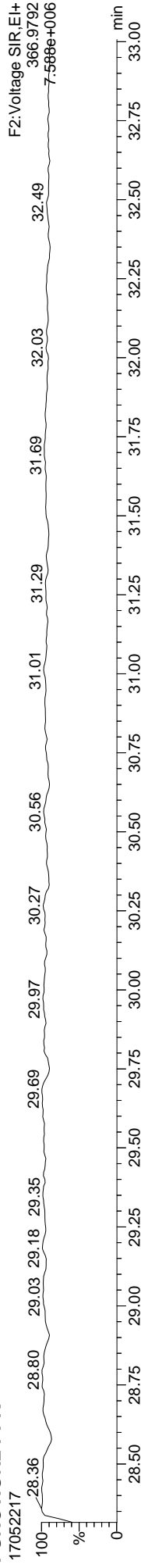
Total-pentadioxins



Total-pentadioxins



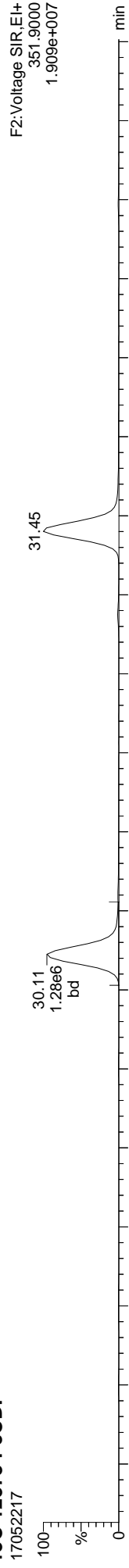
FUNCTION2 PFK



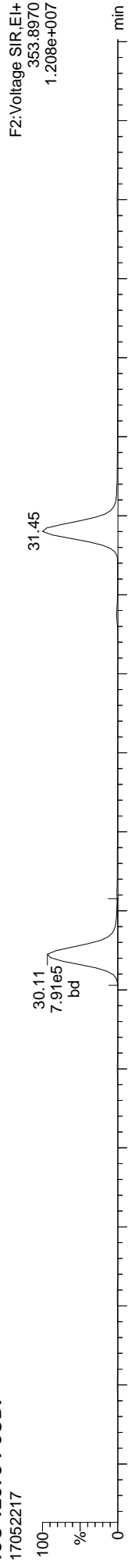
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 170522217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

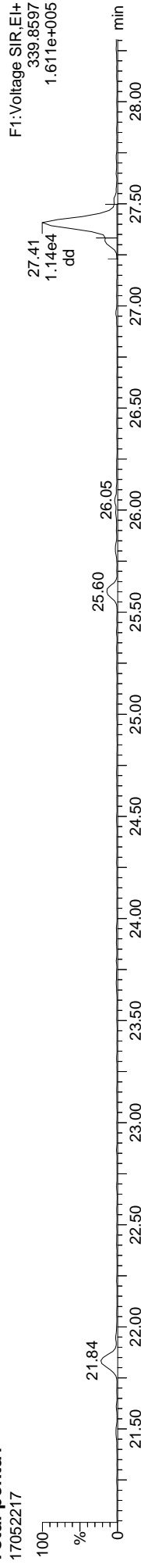
13C-12378-PeCDF



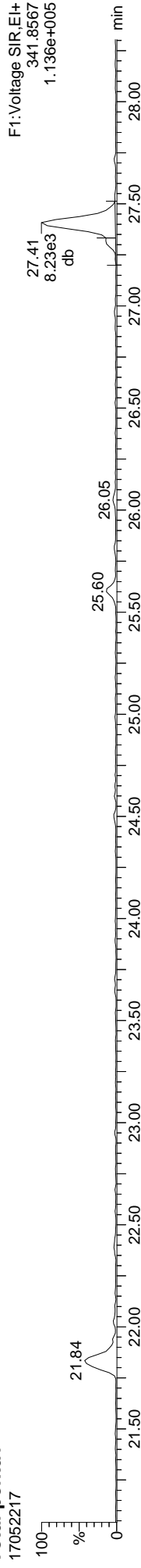
13C-12378-PeCDF



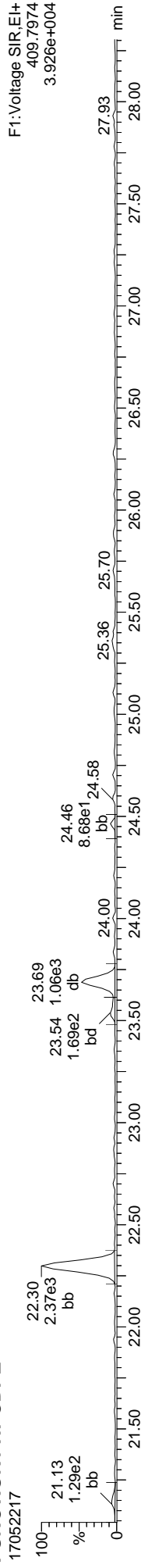
Total-penta1



Total-penta1



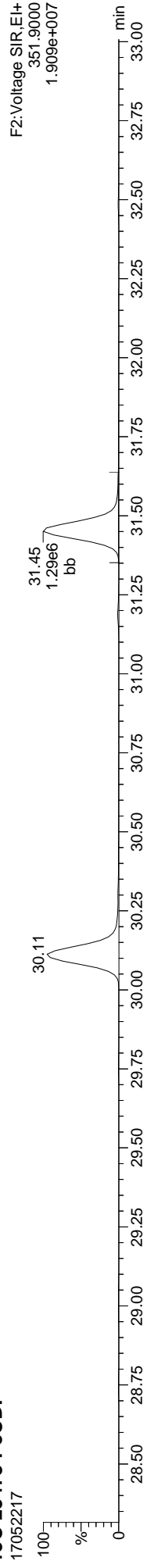
FUNCTION1 HPCDFE



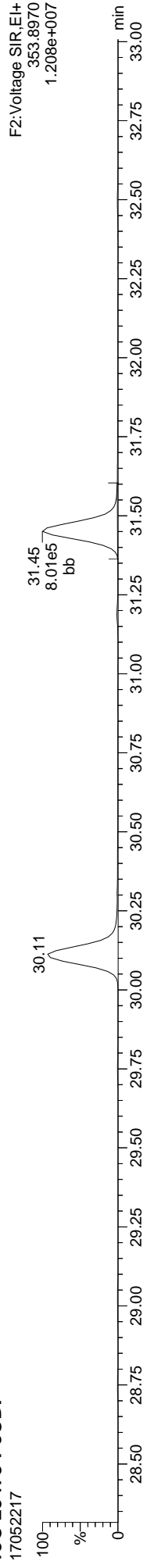
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 170522217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

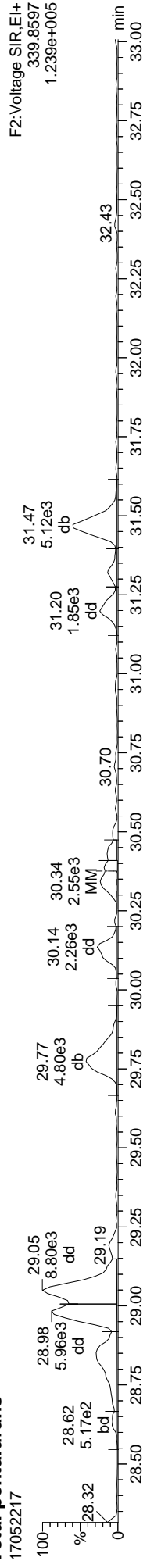
13C-23478-PeCDF



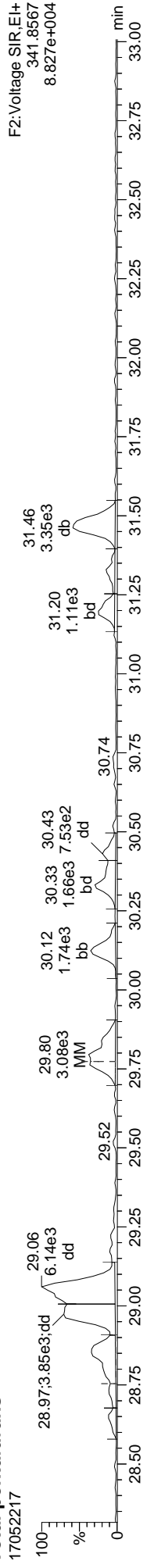
13C-23478-PeCDF



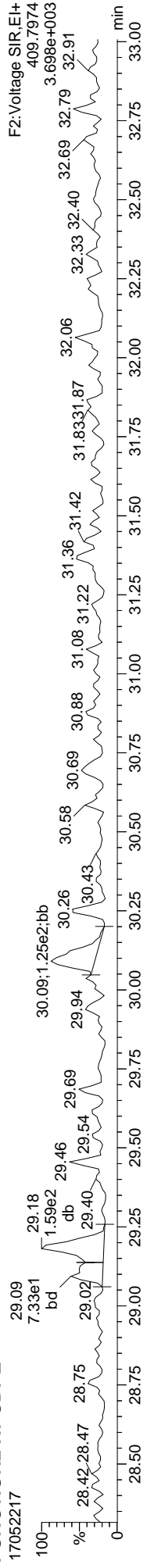
Total-pentafurans



Total-pentafurans



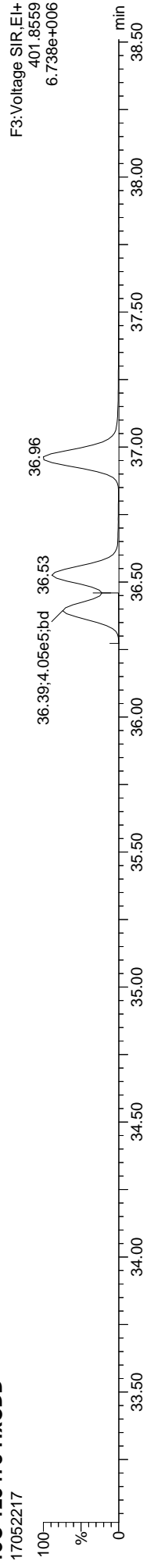
FUNCTION2 HPCDPE



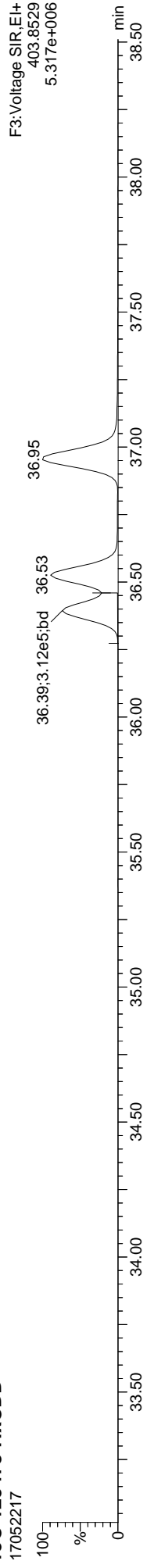
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

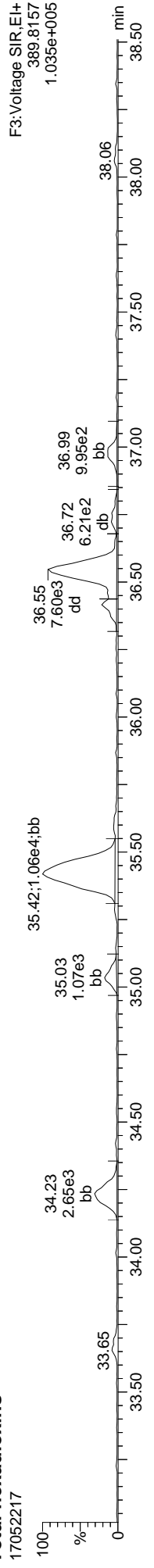
13C-123478-HxCDD



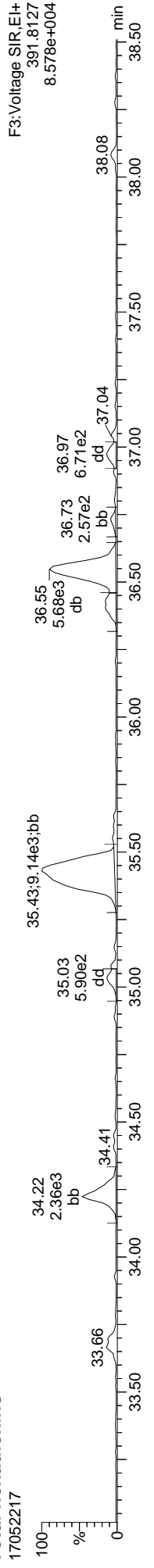
13C-123478-HxCDD



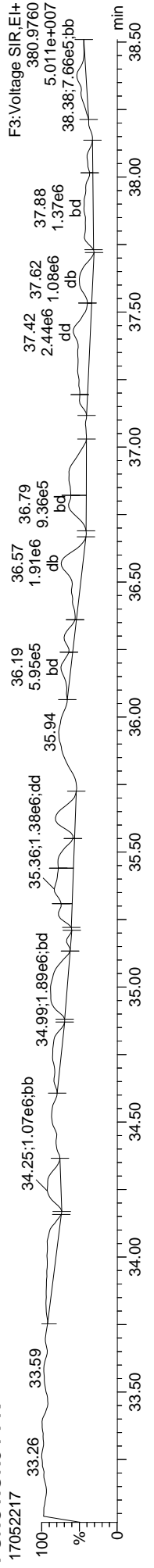
Total-hexadioxins



Total-hexadioxins



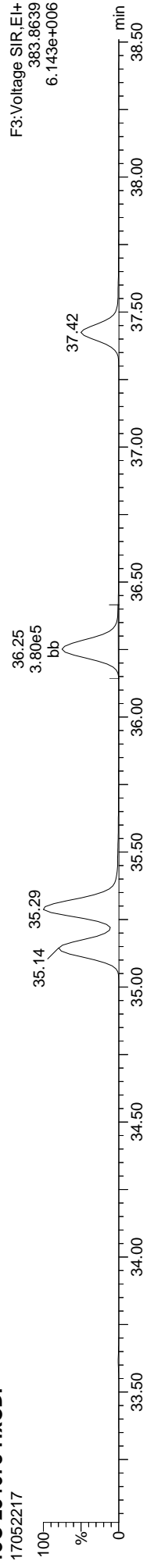
FUNCTION3 PFK



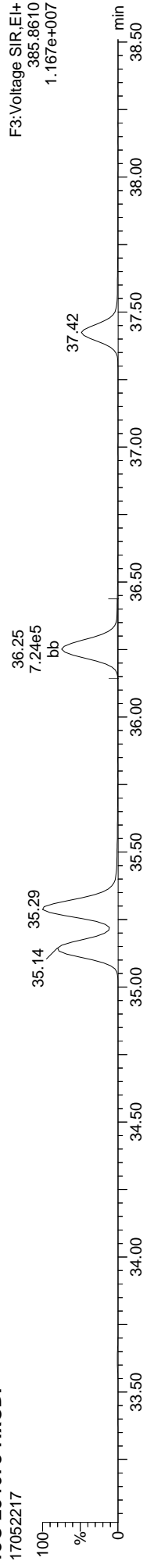
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

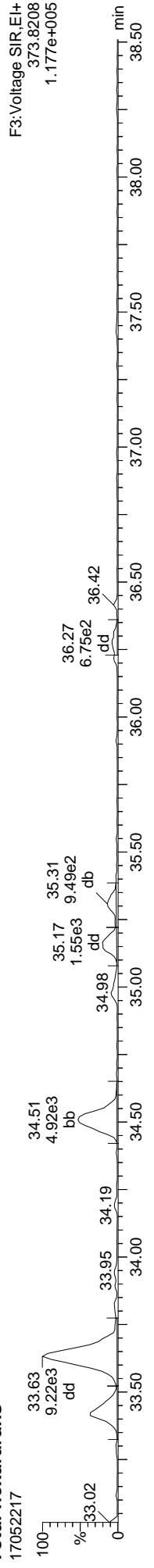
13C-234678-HxCDF



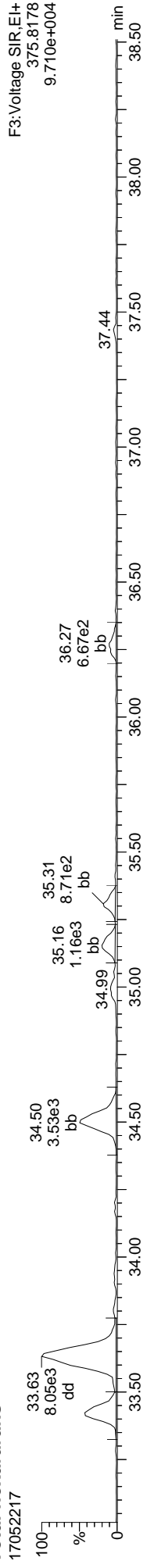
13C-234678-HxCDF



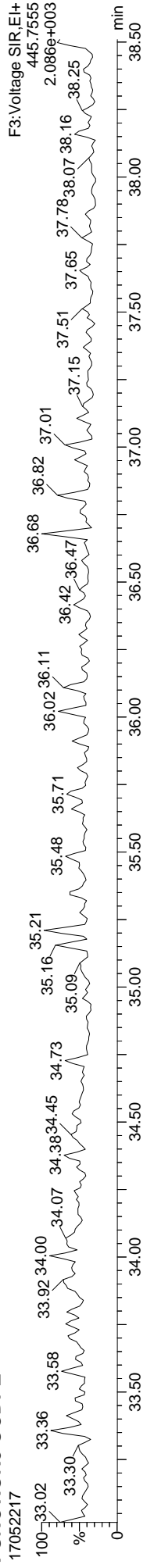
Total-hexafurans



Total-hexafurans



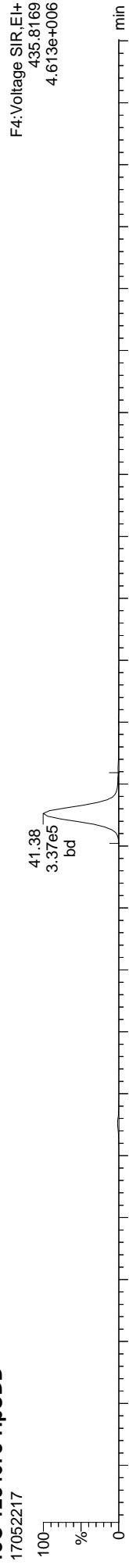
FUNCTION3 OCDPE



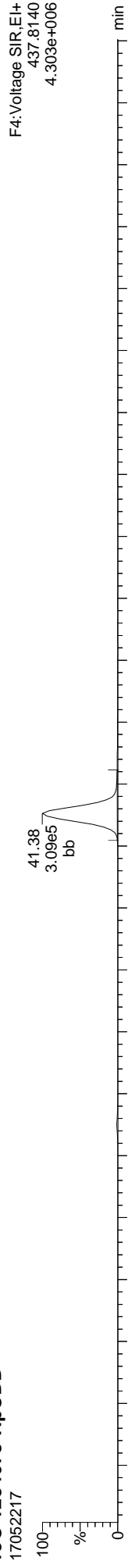
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

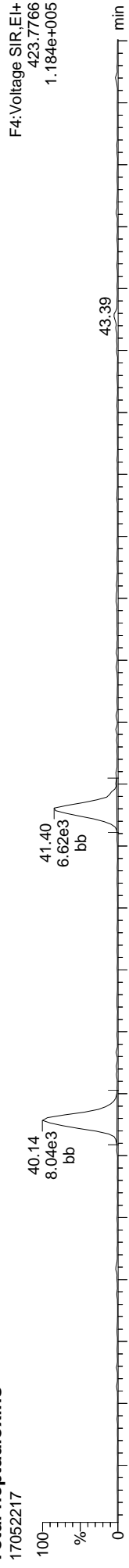
13C-1234678-HpCDD



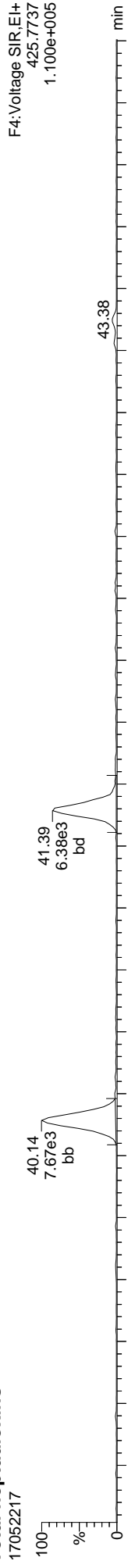
13C-1234678-HpCDD



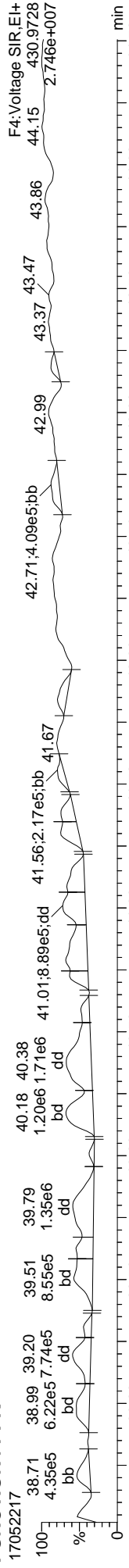
Total-heptadioxins



Total-heptadioxins



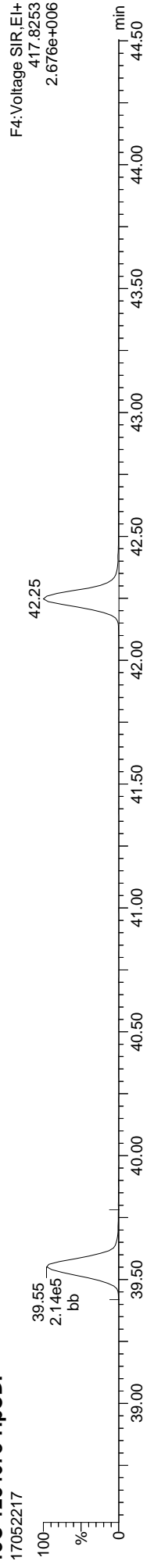
FUNCTION4 PFK



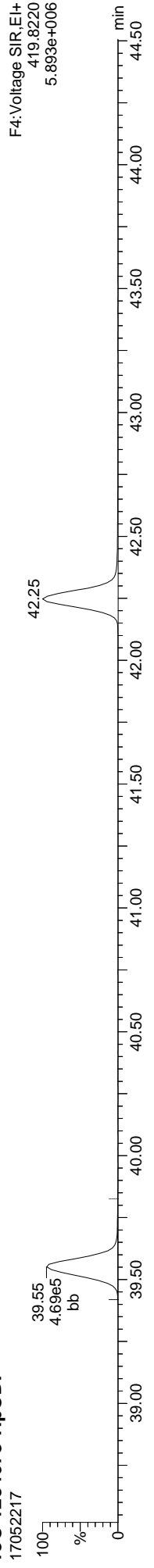
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 170522217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

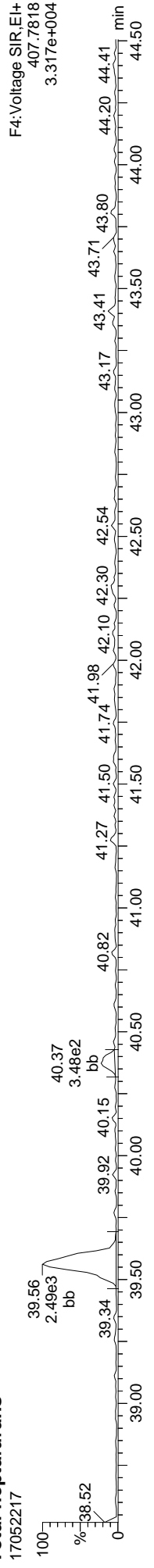
13C-1234678-HpCDF



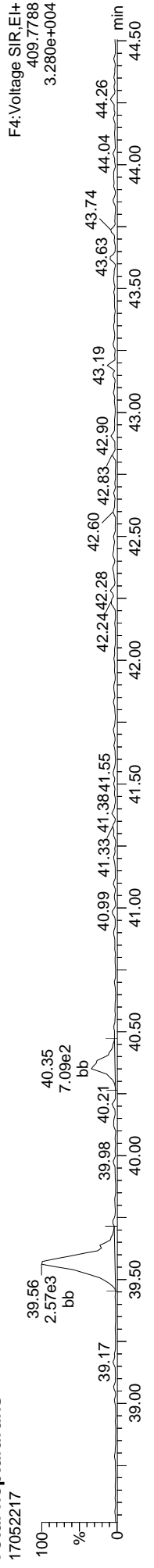
13C-1234678-HpCDF



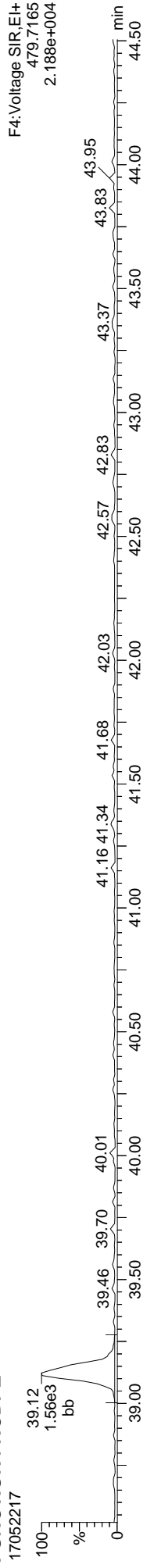
Total-heptafulrans



Total-heptafulrans



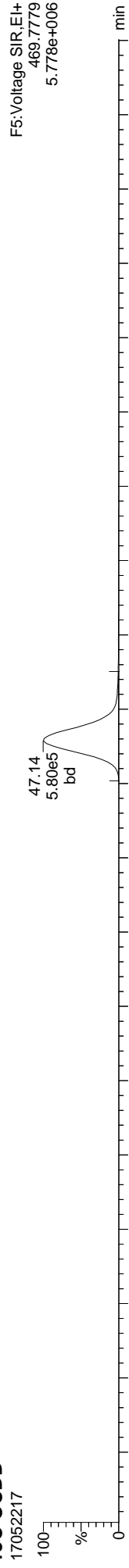
FUNCTION4 NCDPE



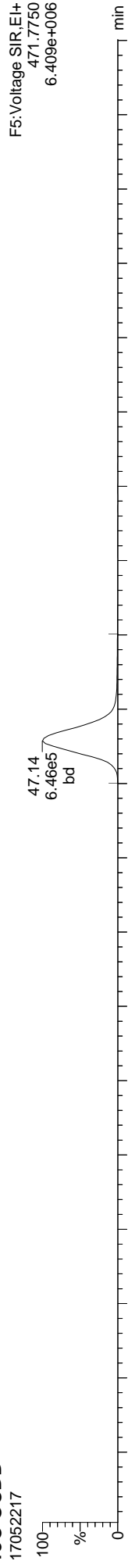
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

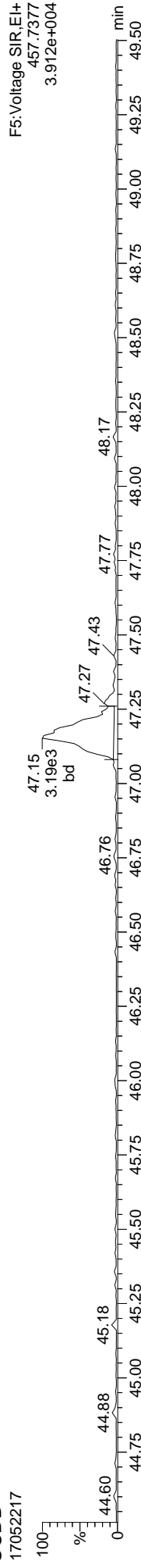
13C-OCDD



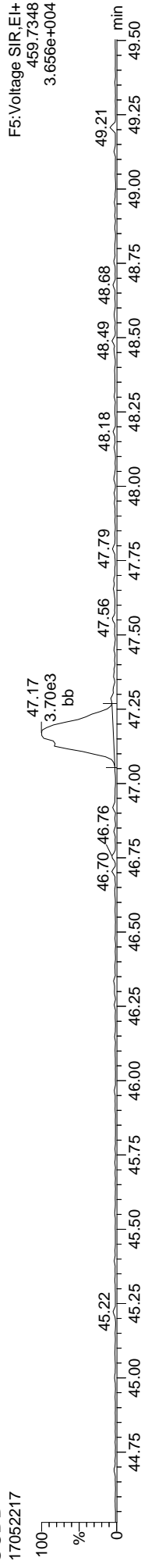
13C-OCDD



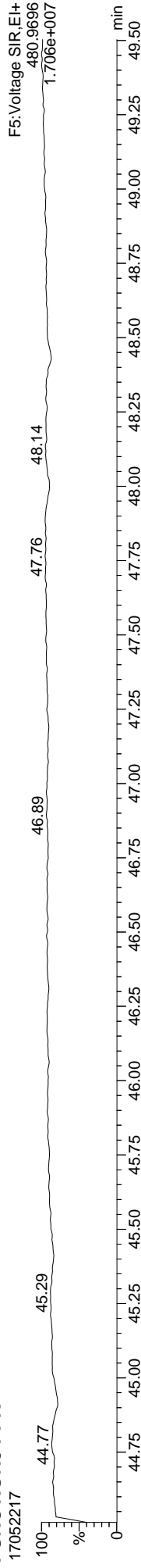
OCDD



OCDD



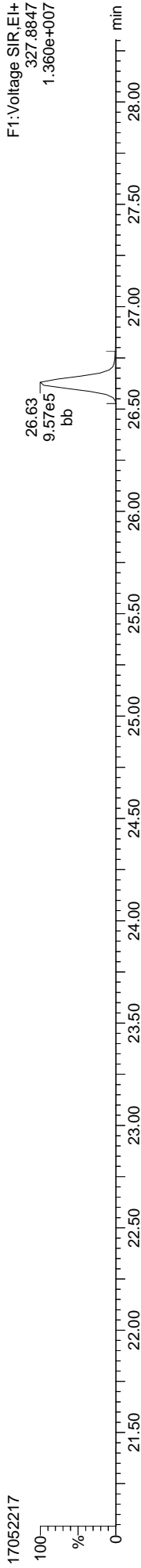
FUNCTION5 PFK



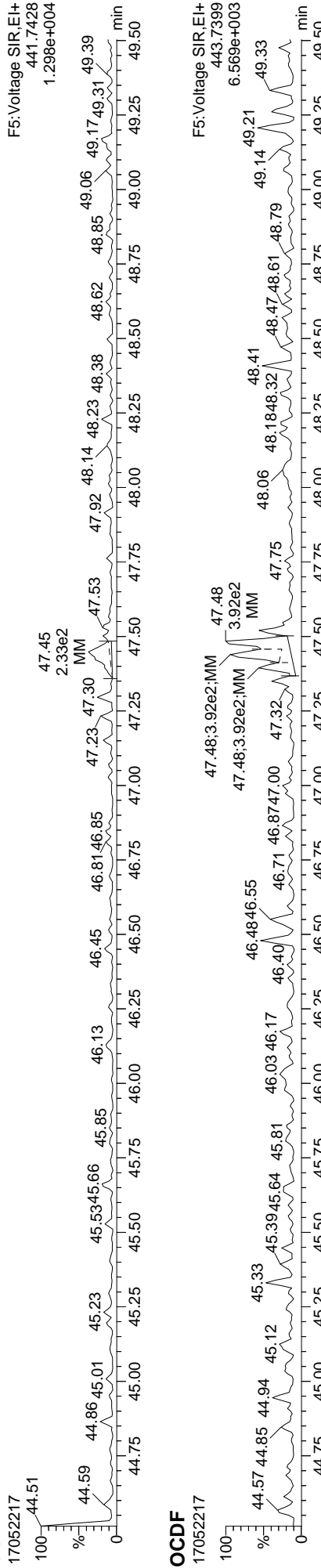
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:55:03 Pacific Daylight Time

ID: 17D0421-10, Name: 17052217, Date: 22-May-2017, Time: 23:49:10, Conditions: AUTOSPEC01, User: PK

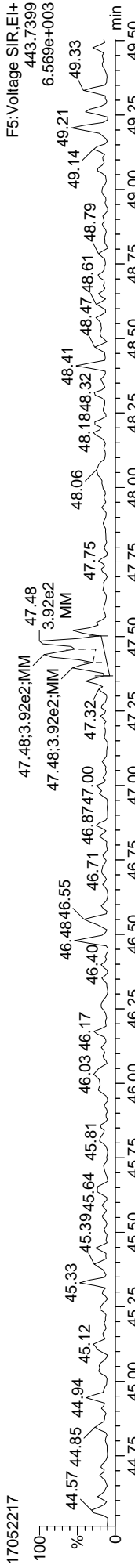
37CL-2378-TCDD



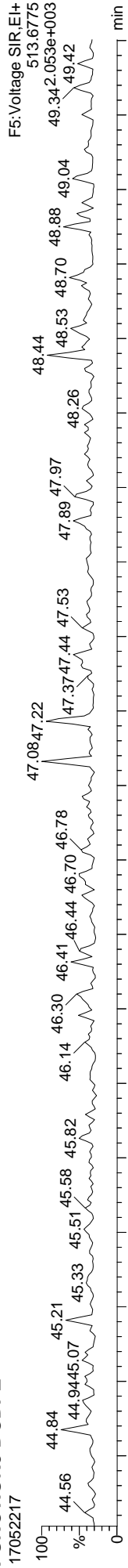
OCDF



OCDF



FUNCTION5 DCDPE





CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

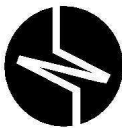
Cleanup Batch: CFE0096

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665A Sulfuric Acid Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-WS-LTN-COC-170424	17D0421-06	17052211	05/12/2017	
PG-WS-COC-COC-170425	17D0421-05	17052210	05/12/2017	
PG-SMA3-GEO-COC-170426	17D0421-08	17052215	05/12/2017	
PG-SMA3-DUNM-COC-170426	17D0421-09	17052216	05/12/2017	
PG-SMA3-DUNH-COC-170426	17D0421-10	17052217	05/12/2017	
PG-GP-OYS-COC-170424	17D0421-01	17052206	05/12/2017	
PG-GP-LTN-COC-170424	17D0421-03	17052208	05/12/2017	
PG-GP-COC-COC-170424	17D0421-02	17052207	05/12/2017	
PG-WS-MAN-COC-170424	17D0421-07	17052212	05/12/2017	
PG-WS-OYS-COC-170424	17D0421-04	17052209	05/12/2017	



CLEANUP BENCH SHEET

CFE0096

Matrix: Tissue Cleanup using: HRGCMS - EPA 3665A Sulfuric Acid Cleanup Printed: 5/15/2017 9:29:16AM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17E0012-06	A	PG-PJ-MUS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-05	A	PG-PJ-HC-COC-170428	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-04	A	PG-PJ-MAN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-03	A	PG-PJ-LTN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-02	A	PG-PJ-COC-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-01	A	PG-PJ-OYS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-10	A	PG-SMA3-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-09	A	PG-SMA3-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-08	A	PG-SMA3-GEO-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-07	A	PG-WS-MAN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-06	A	PG-WS-LTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-05	A	PG-WS-COC-COC-170425	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-04	A	PG-WS-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-03	A	PG-GP-LTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-02	A	PG-GP-COC-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-01	A	PG-GP-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
BFE0233-BS1	-	LCS	-	20	20	-	5/12/2017	NPL	
BFE0233-BLK1	-	Blank	-	20	20	-	5/12/2017	NPL	



PREPARATION BATCH SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc. SDG: 17D0421
Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
Batch: BFE0233 Batch Matrix: Tissue Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-GP-OYS-COC-170424	17D0421-01	17052206	05/09/17 16:05	
PG-GP-COC-COC-170424	17D0421-02	17052207	05/09/17 16:05	
PG-GP-LTN-COC-170424	17D0421-03	17052208	05/09/17 16:05	
PG-WS-OYS-COC-170424	17D0421-04	17052209	05/09/17 16:05	
PG-WS-COC-COC-170425	17D0421-05	17052210	05/09/17 16:05	
PG-WS-LTN-COC-170424	17D0421-06	17052211	05/09/17 16:05	
PG-WS-MAN-COC-170424	17D0421-07	17052212	05/09/17 16:05	
PG-SMA3-GEO-COC-170426	17D0421-08	17052215	05/09/17 16:05	
PG-SMA3-DUNM-COC-170426	17D0421-09	17052216	05/09/17 16:05	
PG-SMA3-DUNH-COC-170426	17D0421-10	17052217	05/09/17 16:05	
Blank	BFE0233-BLK1	17052204	05/09/17 16:05	
LCS	BFE0233-BS1	17052205	05/09/17 16:05	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BFE0233

Tissue Samples

ARI Work Orders: 17D0421, 17E0012	
Matrix (circle one)	Soil Sediment Oil Tissue
Extraction Method	Start Date/Time: 5/9/17 16:05 End Date/Time: 11:06 5/10/17
Soxhlet SepF Shake out	

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Balance		24650344	AS	5/7/17
Purified Sand				
Toluene-1:1 Hex/DCM		E004138	AS	5/9/17
Hexane		F003179	AS/M	5/9/17
CH2Cl2		F003850	M	5/12/17
H2SO4		E008611 F00571	M	5/11/17
Na2SO4		F003342 F00392	AS/M	5/9/17
Glasswool		E001046	M	5/11/17
(98:2) Hex/DCM		F003868	M	5/12/17
Basic Silica		F001225	M	5/12/17
Acid Silica		F003402	M	5/12/17
0% Silica		E006349	AS/M	5/9/17
Activated Florisil		F001224	M	5/12/17
Nonane		E000869	M	5/15/17
Other (<i>corn oil</i>)		E005442	AS	5/9/17

Lab Number & Container	Sample Name	Sample Vol (ml)	Ratio Vap	Water Trap Vol (ml)	Final Vol (ul)
17D0421-01 A	PG-PROYS-COC-170	10.02	1/2	N/A	20
17D0421-02 A	PG-GP-COC-170	10.04	1/2		20
17D0421-03 A	PG-GP-TEG-COC-170	10.03	1/2		20
17D0421-04 A	PG-MS-OYS-COC-17	10.02	1/2		20
17D0421-05 A	PG-MS-COC-COC-17	10.03	1/2		20
17D0421-06 A	PG-MS-TEG-COC-170	10.04	1/2		20
17D0421-07 A	PG-MS-MAN-COC-17	10.05	1/2		20
17D0421-08 A	PG-MS-TEG-COC-170	10.05	1/2		20
17D0421-09 A	PG-MS-TEG-COC-170	10.05	1/2		20
17D0421-10 A	PG-MS-TEG-COC-170	10.01	1/2		20
17E0012-01 A	PG-PL-DYS-COC-170	10.02	1/2		20
17E0012-02 A	PG-PL-COC-COC-170	10.04	1/2		20
17E0012-03 A	PG-PL-TEG-COC-170	10.05	1/2		20
17E0012-04 A	PG-PL-MAN-COC-170	10.01	1/2		20
17E0012-05 A	PG-PL-TEG-COC-170	10.04	1/2		20
17E0012-06 A	PG-PL-DYS-COC-170	10.05	1/2		20
Prep Analyst / Date: AS 5/9/17					
Lab Number	Sample Name	Sample Vol (ml)	Ratio Vap	Water Trap Vol (ml)	Final Vol (ul)
BFE0233-BLK1	Blank	10.50	1/2		20
BFE0233-BBS1	LCS	10.50	1/2		20
Prep Analyst / Date: AS 5/11/17					



Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BFE0233
Tissue Samples

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	F003162	2/4 ng/mL	10/10/2017	AS	M	5/9/17
OPR	20 uL	F002400	10/50/100 ng/mL	9/21/2017	AS	M	5/9/17
QC Standard	10 uL	F003024	0.8 ng/mL	10/5/17	M	M	5/12/17
Clean-up Standard	1.0 mL	F003024	0.8 ng/mL	10/5/17	M	M	5/12/17

Analyst / Date:	AS	Acid Clean	Y/N	5/17/17
Analyst / Date:	AS	Silica-Florisil Clean	Y/N	5/12/17

Supervisor Review By: [Signature]
Date: 5/15/17



Extraction Parameter: Dioxin

Element Batch: BFE0233 Work Order(s): 17D0421, 17E0012

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input checked="" type="checkbox"/> Emulsions (%)= <u>BFE0233 - B1K, B5, 17D0421-01A, 04A, 0A, 17E0012-01A - Heavy</u>	<u>M 5/11/17</u>
<input type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>Emulsion; samples centrifuged, after centrifuged sample still had emulsion, used Na2SO4 to break up</u>	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<u>All Extracts taking through double Scoop Acid silica gel on columns.</u>	<u>M 5/12/17</u>
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory - Glassware

ARI Sample ID: BFE0233

Client Sample ID:

Client Project ID:

ARI Analyst

ML

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
<u>BFE0233 - BK1</u>	<u>19</u>	<u>L10</u>		<u>8</u>	<u>119/167</u>	<u>121</u>	<u>59</u>	<u>37</u>	<u>37</u>		<u>2</u>	<u>4</u>	<u>4</u>	<u>A1</u>
<u>BS1</u>	<u>25</u>	<u>55</u>		<u>7</u>	<u>96/171</u>	<u>197</u>	<u>131</u>	<u>41</u>	<u>34</u>		<u>21</u>	<u>4</u>	<u>4</u>	<u>A2</u>
<u>1700421 - 01A</u>	<u>45</u>	<u>84</u>		<u>2</u>	<u>109/100</u>	<u>204</u>	<u>148</u>	<u>30</u>	<u>28</u>		<u>25</u>	<u>4</u>	<u>4</u>	<u>A3</u>
<u>02A</u>	<u>17</u>	<u>71</u>		<u>34</u>	<u>37/109</u>	<u>179</u>	<u>122</u>	<u>13</u>	<u>26</u>		<u>2</u>	<u>4</u>	<u>4</u>	<u>A4</u>
<u>03A</u>	<u>30</u>	<u>46</u>		<u>44</u>	<u>13/117</u>	<u>118</u>	<u>149</u>	<u>24</u>	<u>23</u>		<u>15</u>	<u>4</u>	<u>4</u>	<u>A5</u>
<u>04A</u>	<u>79</u>	<u>83</u>		<u>6</u>	<u>66/115</u>	<u>119</u>	<u>77</u>	<u>51</u>	<u>25</u>			<u>4</u>	<u>4</u>	<u>A6</u>
<u>05A</u>	<u>4</u>	<u>74</u>		<u>163</u>	<u>112/85</u>	<u>212</u>	<u>128</u>	<u>44</u>	<u>2</u>			<u>4</u>	<u>4</u>	<u>B1</u>
<u>06A</u>	<u>72</u>	<u>57</u>		<u>240</u>	<u>89/118</u>	<u>211</u>	<u>1</u>	<u>17</u>	<u>35</u>			<u>4</u>	<u>4</u>	<u>B2</u>
<u>07A</u>	<u>56</u>	<u>69</u>		<u>56</u>	<u>72/29</u>	<u>177</u>	<u>76</u>	<u>43</u>	<u>22</u>			<u>4</u>	<u>4</u>	<u>B3</u>
<u>08A</u>	<u>10</u>	<u>L3</u>		<u>L2</u>	<u>88/18</u>	<u>L7</u>	<u>116</u>	<u>19</u>	<u>29</u>			<u>4</u>	<u>4</u>	<u>B4</u>
<u>09A</u>	<u>257</u>	<u>88</u>		<u>186</u>	<u>59/20</u>	<u>176</u>	<u>L5</u>	<u>47</u>	<u>27</u>			<u>4</u>	<u>4</u>	<u>B5</u>
<u>10A</u>	<u>L7</u>	<u>L1</u>		<u>213</u>	<u>94/39</u>	<u>190</u>	<u>128</u>	<u>36</u>	<u>24</u>		<u>28</u>	<u>4</u>	<u>4</u>	<u>B6</u>
<u>17E0012 - 01A</u>	<u>70</u>	<u>90</u>		<u>219</u>	<u>91/101</u>	<u>128</u>	<u>142</u>	<u>4</u>	<u>33</u>		<u>27</u>	<u>4</u>	<u>4</u>	<u>C1</u>
<u>02A</u>	<u>L5</u>	<u>67</u>		<u>18</u>	<u>62/16</u>	<u>213</u>	<u>155</u>	<u>12</u>	<u>31</u>			<u>4</u>	<u>4</u>	<u>C2</u>
<u>03A</u>	<u>64</u>	<u>L9</u>		<u>220</u>	<u>104/125</u>	<u>147</u>	<u>112</u>	<u>50</u>	<u>20</u>			<u>4</u>	<u>4</u>	<u>C3</u>
<u>04A</u>	<u>20</u>	<u>L8</u>		<u>188</u>	<u>116/14</u>	<u>202</u>	<u>86</u>	<u>16</u>	<u>103</u>			<u>4</u>	<u>4</u>	<u>C4</u>
<u>05A</u>	<u>44</u>	<u>89</u>		<u>199</u>	<u>114/126</u>	<u>102</u>	<u>L9</u>	<u>42</u>	<u>70</u>			<u>4</u>	<u>4</u>	<u>C5</u>
<u>06A</u>	<u>18</u>	<u>86</u>		<u>179</u>	<u>35/129</u>	<u>218</u>	<u>71</u>	<u>40</u>	<u>162</u>			<u>4</u>	<u>4</u>	<u>C6</u>



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Cleanup Batch: CFE0097

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-GP-COC-COC-170424	17D0421-02	17052207	05/12/2017	
PG-WS-OYS-COC-170424	17D0421-04	17052209	05/12/2017	
PG-WS-MAN-COC-170424	17D0421-07	17052212	05/12/2017	
PG-WS-LTN-COC-170424	17D0421-06	17052211	05/12/2017	
PG-WS-COC-COC-170425	17D0421-05	17052210	05/12/2017	
PG-SMA3-GEO-COC-170426	17D0421-08	17052215	05/12/2017	
PG-SMA3-DUNM-COC-170426	17D0421-09	17052216	05/12/2017	
PG-SMA3-DUNH-COC-170426	17D0421-10	17052217	05/12/2017	
PG-GP-OYS-COC-170424	17D0421-01	17052206	05/12/2017	
PG-GP-LTN-COC-170424	17D0421-03	17052208	05/12/2017	



CLEANUP BENCH SHEET

CFE0097

Printed: 5/15/2017 9:29:27AM

Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17E0012-06	A	PG-PJ-MUS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-05	A	PG-PJ-HC-COC-170428	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-04	A	PG-PJ-MAN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-03	A	PG-PJ-LTN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-02	A	PG-PJ-COC-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-01	A	PG-PJ-OYS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-10	A	PG-SMA5-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-09	A	PG-SMA5-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-08	A	PG-SMA5-GEO-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-07	A	PG-WS-MAN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-06	A	PG-WS-LTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-05	A	PG-WS-COC-COC-170425	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-04	A	PG-WS-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-03	A	PG-GPLTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-02	A	PG-GP-COC-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-01	A	PG-GP-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
BFE0233-BS1	-	LCS	-	20	20	-	5/12/2017	NPL	
BFE0233-BLK1	-	Blank	-	20	20	-	5/12/2017	NPL	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Cleanup Batch: CFE0098

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-WS-COC-COC-170425	17D0421-05	17052210	05/12/2017	
PG-GP-COC-COC-170424	17D0421-02	17052207	05/12/2017	
PG-GP-LTN-COC-170424	17D0421-03	17052208	05/12/2017	
PG-GP-OYS-COC-170424	17D0421-01	17052206	05/12/2017	
PG-SMA3-DUNH-COC-170426	17D0421-10	17052217	05/12/2017	
PG-SMA3-GEO-COC-170426	17D0421-08	17052215	05/12/2017	
PG-WS-LTN-COC-170424	17D0421-06	17052211	05/12/2017	
PG-WS-MAN-COC-170424	17D0421-07	17052212	05/12/2017	
PG-WS-OYS-COC-170424	17D0421-04	17052209	05/12/2017	
PG-SMA3-DUNM-COC-170426	17D0421-09	17052216	05/12/2017	



CLEANUP BENCH SHEET

CFE0098

Printed: 5/15/2017 9:29:38AM

Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17E0012-06	A	PG-PJ-MUS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-05	A	PG-PJ-HC-COC-170428	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-04	A	PG-PJ-MAN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-03	A	PG-PJ-LTN-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-02	A	PG-PJ-COC-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17E0012-01	A	PG-PJ-OYS-COC-170427	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-10	A	PG-SMA3-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-09	A	PG-SMA3-DUNH-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-08	A	PG-SMA3-GEO-COC-170426	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-07	A	PG-WS-MAN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-06	A	PG-WS-LTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-05	A	PG-WS-COC-COC-170425	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-04	A	PG-WS-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-03	A	PG-GP-LTN-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-02	A	PG-GP-COC-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
17D0421-01	A	PG-GP-OYS-COC-170424	A 02	20	20	1613B Dioxin	5/12/2017	NPL	
BFE0233-BS1	-	LCS	-	20	20	-	5/12/2017	NPL	
BFE0233-BLK1	-	Blank	-	20	20	-	5/12/2017	NPL	



Blank

Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	Tissue	Laboratory ID:	<u>BFE0233-BLK1</u>
Sampled:	<u>N/A</u>	File ID:	<u>17052204</u>
Solids Wt%:		Prepared:	<u>05/09/17 16:05</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>05/22/17 12:05</u>
Batch:	<u>BFE0233</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Sequence:	<u>SFE0219</u>
		Calibration:	<u>AE00055</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.604	0.655-0.886		1.00	0.0544	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.202	0.655-0.886		1.00	0.209	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	0.910	1.318-1.783		5.00	0.100	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.032	5.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.340	1.318-1.783		5.00	0.0474	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.919	1.054-1.426		5.00	0.0839	ng/kg	EMPC, J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.193	1.054-1.426		5.00	0.0511	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.900	1.054-1.426		5.00	0.0524	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.883	1.054-1.426		5.00	0.142	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.904	1.054-1.426		5.00	0.0686	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.859	1.054-1.426		5.00	0.0861	ng/kg	EMPC, J
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.070	5.00	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.003	0.893-1.208		5.00	0.120	ng/kg	J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.796	0.893-1.208		5.00	0.104	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.996	0.893-1.208		5.00	0.224	ng/kg	J
39001-02-0	OCDF	1	0.822	0.757-1.024		10.0	0.301	ng/kg	J
3268-87-9	OCDD	1	0.840	0.757-1.024		10.0	1.82	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	0.0932	ng/kg	
41903-57-5	Total TCDD	1	0.000			1.00	0.263	ng/kg	
30402-15-4	Total PeCDF	1	0.000			1.00	0.100	ng/kg	
36088-22-9	Total PeCDD	1	0.000			1.00	0.0474	ng/kg	
55684-94-1	Total HxCDF	1	0.000			1.00	0.329	ng/kg	
34465-46-8	Total HxCDD	1	0.000			1.00	0.155	ng/kg	
38998-75-3	Total HpCDF	1	0.000			1.00	0.262	ng/kg	
37871-00-4	Total HpCDD	1	0.000			1.00	0.722	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.318
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.327



Blank

Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17D0421</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	Tissue	Laboratory ID:	<u>BFE0233-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>05/09/17 16:05</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFE0219</u>
Batch:	<u>BFE0233</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17052204</u>
		Analyzed:	<u>05/22/17 12:05</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Calibration:	<u>AE00055</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.793	0.655-0.886		76.2	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.779	0.655-0.886		74.0	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.604	1.318-1.783		66.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.599	1.318-1.783		69.9	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.623	1.318-1.783		69.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.523	0.434-0.587		74.0	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.503	0.434-0.587		75.3	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.531	0.434-0.587		76.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.544	0.434-0.587		66.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.288	1.054-1.426		81.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.290	1.054-1.426		80.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.463	0.374-0.506		68.7	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.453	0.374-0.506		72.2	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.076	0.893-1.208		83.7	23 - 140 %	
13C12-OCDD	1	0.901	0.757-1.024		74.6	17 - 157 %	
37C14-2,3,7,8-TCDD	1	328.000			88.1	35 - 197 %	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\IDioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurvedB\170518CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BLK1, **Name:** 17052204, **Date:** 22-May-2017, **Time:** 12:05:50, **Conditions:** AUTOSPEC01, **User:** PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.003	1.001	3.451e2	5.712e2	1.018	0.604	0.770	1033	1149	7.16e3	8.40e3	6.9	YES	YES	bb	dd	0.027
12378-PeCDF	30.157	1.001	6.838e2	7.515e2	0.977	0.910	1.550	856	1500	1.06e4	7.80e3	12.4	YES	YES	bb	MM	0.050
23478-PeCDF				1.019			1.550	856	1500								
123478-HxCDF	35.144	1.000	4.947e2	5.385e2	1.150	0.919	1.240	1157	816	8.78e3	9.52e3	7.6	YES	YES	bd	bb	0.042
234678-HxCDF	36.251	1.001	3.057e2	3.396e2	1.188	0.900	1.240	1157	816	6.31e3	6.36e3	5.4	YES	YES	bb	bb	0.026
123678-HxCDF	35.308	1.001	3.852e2	3.229e2	1.100	1.193	1.240	1157	816	6.08e3	6.60e3	5.3	YES	NO	db	bb	0.026
123789-HxCDF	37.402	1.001	7.611e2	4.042e2	1.116	1.883	1.240	1157	816	8.87e3	8.76e3	7.7	YES	YES	MM	bb	0.071
1234678-HpCDF	39.463	1.001	6.270e2	6.254e2	1.238	1.003	1.050	1260	1283	9.90e3	7.90e3	7.9	YES	NO	dd	bb	0.060
1234789-HpCDF	42.159	1.000	3.455e2	4.340e2	1.257	0.796	1.050	1260	1283	5.38e3	7.14e3	4.3	YES	YES	bd	bb	0.052
OCDF	47.411	1.006	8.482e2	1.032e3	1.321	0.822	0.890	681	1212	8.37e3	1.23e4	12.3	YES	NO	MM	MM	0.150
2378-TCDD	26.631	1.000	3.639e2	1.798e3	1.244	0.202	0.770	1039	710	4.99e3	2.11e4	4.8	YES	YES	bd	bd	0.104
12378-PeCDD	31.735	1.000	2.214e2	1.651e2	1.058	1.340	1.550	1174	639	4.55e3	2.65e3	3.9	YES	NO	bb	bb	0.024
123478-HxCDD	36.382	1.001	2.837e2	3.139e2	1.119	0.904	1.240	1242	1397	5.35e3	5.45e3	4.3	YES	YES	dd	dd	0.034
123678-HxCDD	36.503	1.000	3.601e2	4.190e2	1.040	0.859	1.240	1242	1397	4.87e3	6.58e3	3.9	YES	YES	dd	db	0.043
123789-HxCDD				0.981			1.240	1242	1397								
1234678-HpCDD	41.271	1.000	8.433e2	8.467e2	1.132	0.996	1.050	863	674	1.37e4	1.11e4	15.9	YES	NO	bb	bb	0.112
OCDD	47.142	1.000	4.391e3	5.226e3	1.117	0.840	0.890	761	486	4.38e4	5.20e4	57.5	YES	NO	bb	bb	0.909
13C-2378-TCDF	25.989	1.007	1.463e6	1.846e6	1.685	0.793	0.770	6857	3354	2.08e7	2.62e7	3029.8	YES	NO	bb	bb	76.160
13C-12378-PeCDF	30.124	1.167	1.806e6	1.126e6	1.706	1.604	1.550	5345	3042	2.45e7	1.54e7	4588.5	YES	NO	bd	bd	66.638
13C-23478-PeCDF	31.472	1.219	1.811e6	1.132e6	1.632	1.599	1.550	5345	3042	2.63e7	1.64e7	4918.6	YES	NO	bb	bb	69.918
13C-123478-HxCDF	35.133	0.952	7.347e5	1.406e6	1.682	0.523	0.510	3787	4592	1.08e7	2.07e7	2847.4	YES	NO	bd	bd	73.971
13C-123678-HxCDF	35.286	0.956	8.432e5	1.675e6	1.945	0.503	0.510	3787	4592	1.17e7	2.20e7	3084.2	YES	NO	db	db	75.254
13C-234678-HxCDF	36.229	0.981	7.193e5	1.354e6	1.582	0.531	0.510	3787	4592	1.01e7	1.91e7	2674.1	YES	NO	bb	bb	76.159
13C-123789-HxCDF	37.369	1.012	5.195e5	9.553e5	1.291	0.544	0.510	3787	4592	6.89e6	1.31e7	1818.1	YES	NO	bb	bb	66.425
13C-1234678-HpCDF	39.440	1.068	5.337e5	1.153e6	1.427	0.463	0.440	2360	2913	7.33e6	1.60e7	3105.6	YES	NO	bd	bb	68.717
13C-1234789-HpCDF	42.137	1.141	3.704e5	8.178e5	0.957	0.453	0.440	2360	2913	4.40e6	9.66e6	1862.8	YES	NO	bb	bb	72.178
13C-1234-TCDD	25.809	0.000	1.135e6	1.444e6	1.000	0.786	0.770	2661	1804	1.68e7	2.14e7	6320.3	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.631	1.032	7.289e5	9.363e5	0.873	0.779	0.770	2661	1804	1.00e7	1.29e7	3757.7	YES	NO	bb	bb	73.977
13C-12378-PeCDD	31.724	1.229	9.544e5	5.879e5	0.860	1.623	1.550	1788	1198	1.32e7	8.21e6	7390.8	YES	NO	bb	bb	69.525
13C-123478-HxCDD	36.361	0.985	8.757e5	6.802e5	1.114	1.288	1.240	3451	2687	1.28e7	9.91e6	3711.3	YES	NO	bd	bd	81.216
13C-123678-HxCDD	36.492	0.988	9.804e5	7.599e5	1.258	1.290	1.240	3451	2687	1.32e7	1.03e7	3834.6	YES	NO	db	db	80.388
13C-1234678-HpCDD	41.249	1.117	6.896e5	6.409e5	0.924	1.076	1.050	2495	3061	8.49e6	7.89e6	3404.0	YES	NO	bd	bd	83.739
13C-OCDD	47.124	1.276	8.976e5	9.963e5	0.738	0.901	0.890	2669	2940	8.67e6	9.63e6	3248.5	YES	NO	bb	bb	149.110
13C-123789-HxCDD	36.919	0.000	9.651e5	7.552e5	1.000	1.278	1.240	3451	2687	1.31e7	1.02e7	3786.5	YES	NO	bb	bb	100.000
Total-tetrafurans			5.343e2		1.018			1033		1.10e4							0.047

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld

Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					550		0.00e0								
Total-pentafurans			6.838e2		0.998			856		1.06e4								0.050
Total-hexafurans			1.947e3		1.138			1157		3.00e4								0.165
Total-heptafurans			1.170e3		1.248			1260		2.19e4								0.131
Total-Furans			5.268e3		1.138			1033		8.47e4								0.548
Total-tetradioxins			5.499e2		1.244			1039		8.17e3								0.131
Total-pentadioxins			2.214e2		1.058			1174		4.55e3								0.024
Total-hexadioxins			6.438e2		1.047			1242		1.02e4								0.077
Total-heptadioxins			2.665e3		1.132			863		3.61e4								0.361
Total-Dioxins			8.471e3		1.099			1039		1.03e5								1.503
Total-TEQ	26.646	1.032	1.374e4					1039		1.88e5								2.051
37CL-2378-TCDD			9.282e5		1.021			1215		1.33e7		10990.7	YES		bb			35.239
FUNCTION1 PFK			1.965e6					879536		1.35e7								
FUNCTION2 PFK			0.000e0					162130		0.00e0								
FUNCTION3 PFK			6.418e6					770006		1.07e8								0.000
FUNCTION4 PFK			4.778e6					439719		4.60e7								
FUNCTION5 PFK			4.594e5					308231		1.51e7								
FUNCTION1 HXCD...			0.000e0					499		0.00e0								
FUNCTION1 HPCD...			2.247e2					426		2.12e3								0.000
FUNCTION2 HPCD...			7.764e1					782		2.56e3								0.000
FUNCTION3 OCDPE			0.000e0					402		0.00e0								
FUNCTION4 NCDPE			0.000e0					622		0.00e0								
FUNCTION5 DCDPE			0.000e0					431		0.00e0								

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	3.451e2	5.712e2	1.018	0.60	0.77	6.9	YES	YES	bb	dd	0.027
2	Total-tetrafurans	25.82	1.892e2	4.648e2	1.018	0.41	0.77	3.7	YES	YES	bb	MM	0.019

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.16	6.838e2	7.515e2	0.977	0.91	1.55	12.4	YES	YES	bb	MM	0.050

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.40	7.611e2	4.042e2	1.116	1.88	1.24	7.7	YES	YES	MM	bb	0.071
2	234678-HxCDF	36.25	3.057e2	3.396e2	1.188	0.90	1.24	5.4	YES	YES	bb	bb	0.026
3	123678-HxCDF	35.31	3.852e2	3.229e2	1.100	1.19	1.24	5.3	YES	NO	db	bb	0.026
4	123478-HxCDF	35.14	4.947e2	5.385e2	1.150	0.92	1.24	7.6	YES	YES	bd	bb	0.042

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.46	6.270e2	6.254e2	1.238	1.00	1.05	7.9	YES	NO	dd	bb	0.060
2	1234789-HpCDF	42.16	3.455e2	4.340e2	1.257	0.80	1.05	4.3	YES	YES	bd	bb	0.052
3	Total-heptafurans	40.25	1.977e2	1.381e2	1.248	1.43	1.05	5.2	YES	YES	bd	bb	0.019

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	3.451e2	5.712e2	1.018	0.60	0.77	6.9	YES	YES	bb	dd	0.027
2	Total-tetrafurans	25.82	1.892e2	4.648e2	1.018	0.41	0.77	3.7	YES	YES	bb	MM	0.019
3	Total-Furans	21.60	8.529e1	1.277e2	1.138	0.67	0.77	2.7	NO	NO	bb	bd	0.006
4	12378-PeCDF	30.16	6.838e2	7.515e2	0.977	0.91	1.55	12.4	YES	YES	bb	MM	0.050
5	123789-HxCDF	37.40	7.611e2	4.042e2	1.116	1.88	1.24	7.7	YES	YES	MM	bb	0.071
6	234678-HxCDF	36.25	3.057e2	3.396e2	1.188	0.90	1.24	5.4	YES	YES	bb	bb	0.026
7	123678-HxCDF	35.31	3.852e2	3.229e2	1.100	1.19	1.24	5.3	YES	NO	db	bb	0.026
8	123478-HxCDF	35.14	4.947e2	5.385e2	1.150	0.92	1.24	7.6	YES	YES	bd	bb	0.042
9	1234678-HpCDF	39.46	6.270e2	6.254e2	1.238	1.00	1.05	7.9	YES	NO	dd	bb	0.060
10	1234789-HpCDF	42.16	3.455e2	4.340e2	1.257	0.80	1.05	4.3	YES	YES	bd	bb	0.052
11	Total-heptafurans	40.25	1.977e2	1.381e2	1.248	1.43	1.05	5.2	YES	YES	bd	bb	0.019
12	OCDF	47.41	8.482e2	1.032e3	1.321	0.82	0.89	12.3	YES	NO	MM	MM	0.150

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	26.78	1.860e2	3.759e2	1.244	0.49	0.77	3.1	YES	YES	db	dd	0.027
2	2378-TCDD	26.63	3.639e2	1.798e3	1.244	0.20	0.77	4.8	YES	YES	bd	bd	0.104

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.74	2.214e2	1.651e2	1.058	1.34	1.55	3.9	YES	NO	bb	bb	0.024

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDD	36.38	2.837e2	3.139e2	1.119	0.90	1.24	4.3	YES	YES	dd	dd	0.034
2	123678-HxCDD	36.50	3.601e2	4.190e2	1.040	0.86	1.24	3.9	YES	YES	dd	db	0.043

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.27	8.433e2	8.467e2	1.132	1.00	1.05	15.9	YES	NO	bb	bb	0.112
2	Total-heptadioxins	40.00	1.821e3	1.922e3	1.132	0.95	1.05	26.0	YES	NO	bb	MM	0.249

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.78	1.860e2	3.759e2	1.244	0.49	0.77	3.1	YES	YES	db	dd	0.027
2	2378-TCDD	26.63	3.639e2	1.798e3	1.244	0.20	0.77	4.8	YES	YES	bd	bd	0.104
3	123478-HxCDD	36.38	2.837e2	3.139e2	1.119	0.90	1.24	4.3	YES	YES	dd	dd	0.034
4	12378-PeCDD	31.74	2.214e2	1.651e2	1.058	1.34	1.55	3.9	YES	NO	bb	bb	0.024
5	123678-HxCDD	36.50	3.601e2	4.190e2	1.040	0.86	1.24	3.9	YES	YES	dd	db	0.043
6	1234678-HpCDD	41.27	8.433e2	8.467e2	1.132	1.00	1.05	15.9	YES	NO	bb	bb	0.112
7	Total-heptadioxins	40.00	1.821e3	1.922e3	1.132	0.95	1.05	26.0	YES	NO	bb	MM	0.249
8	OCDD	47.14	4.391e3	5.226e3	1.117	0.84	0.89	57.5	YES	NO	bb	bb	0.909

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	3.451e2	5.712e2	1.018	0.60	0.77	6.9	YES	YES	bb	dd	0.027
2	Total-tetrafurans	25.82	1.892e2	4.648e2	1.018	0.41	0.77	3.7	YES	YES	bb	MM	0.019
3	Total-Furans	21.60	8.529e1	1.277e2	1.138	0.67	0.77	2.7	NO	NO	bb	bd	0.006
4	12378-PeCDF	30.16	6.838e2	7.515e2	0.977	0.91	1.55	12.4	YES	YES	bb	MM	0.050
5	123789-HxCDF	37.40	7.611e2	4.042e2	1.116	1.88	1.24	7.7	YES	YES	MM	bb	0.071
6	234678-HxCDF	36.25	3.057e2	3.396e2	1.188	0.90	1.24	5.4	YES	YES	bb	bb	0.026
7	123678-HxCDF	35.31	3.852e2	3.229e2	1.100	1.19	1.24	5.3	YES	NO	db	bb	0.026
8	123478-HxCDF	35.14	4.947e2	5.385e2	1.150	0.92	1.24	7.6	YES	YES	bd	bb	0.042
9	1234678-HpCDF	39.46	6.270e2	6.254e2	1.238	1.00	1.05	7.9	YES	NO	dd	bb	0.060
10	1234789-HpCDF	42.16	3.455e2	4.340e2	1.257	0.80	1.05	4.3	YES	YES	bd	bb	0.052
11	Total-heptafurans	40.25	1.977e2	1.381e2	1.248	1.43	1.05	5.2	YES	YES	bd	bb	0.019
12	OCDF	47.41	8.482e2	1.032e3	1.321	0.82	0.89	12.3	YES	NO	MM	MM	0.150
13	Total-tetradoxins	26.78	1.860e2	3.759e2	1.244	0.49	0.77	3.1	YES	YES	db	dd	0.027
14	2378-TCDD	26.63	3.639e2	1.798e3	1.244	0.20	0.77	4.8	YES	YES	bd	bd	0.104
15	123478-HxCDD	36.38	2.837e2	3.139e2	1.119	0.90	1.24	4.3	YES	YES	dd	dd	0.034
16	12378-PeCDD	31.74	2.214e2	1.651e2	1.058	1.34	1.55	3.9	YES	NO	bb	bb	0.024
17	123678-HxCDD	36.50	3.601e2	4.190e2	1.040	0.86	1.24	3.9	YES	YES	dd	db	0.043
18	1234678-HpCDD	41.27	8.433e2	8.467e2	1.132	1.00	1.05	15.9	YES	NO	bb	bb	0.112
19	Total-heptadioxins	40.00	1.821e3	1.922e3	1.132	0.95	1.05	26.0	YES	NO	bb	MM	0.249
20	OCDD	47.14	4.391e3	5.226e3	1.117	0.84	0.89	57.5	YES	NO	bb	bb	0.909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.57	9.250e5					6.3	YES		bb		
2	FUNCTION1 PFK	26.27	7.033e5					3.7	YES		bb		
3	FUNCTION1 PFK	23.87	2.077e5					3.2	YES		bb		
4	FUNCTION1 PFK	22.34	1.291e5					2.1	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.85	8.422e4					2.6	NO		bb		0.000
2	FUNCTION3 PFK	34.73	2.749e4					1.2	NO		bb		0.000
3	FUNCTION3 PFK	34.49	5.791e4					1.5	NO		bb		0.000
4	FUNCTION3 PFK	34.20	8.498e4					2.3	NO		bb		0.000
5	FUNCTION3 PFK	34.09	6.052e4					1.5	NO		bb		0.000
6	FUNCTION3 PFK	37.74	7.737e4					2.7	NO		bd		0.000
7	FUNCTION3 PFK	37.51	9.612e4					2.7	NO		bb		0.000
8	FUNCTION3 PFK	37.27	3.255e5					3.5	YES		bb		0.000
9	FUNCTION3 PFK	37.04	1.829e5					3.3	YES		db		0.000
10	FUNCTION3 PFK	36.97	2.338e4					1.2	NO		bd		0.000
11	FUNCTION3 PFK	36.92	2.065e4					1.2	NO		bb		0.000
12	FUNCTION3 PFK	36.63	3.036e4					1.3	NO		bb		0.000
13	FUNCTION3 PFK	36.42	5.439e4					1.9	NO		bb		0.000
14	FUNCTION3 PFK	36.29	1.413e5					3.0	YES		bb		0.000
15	FUNCTION3 PFK	36.04	9.199e4					2.3	NO		bb		0.000
16	FUNCTION3 PFK	35.51	8.031e4					1.9	NO		db		0.000
17	FUNCTION3 PFK	35.42	7.639e4					2.6	NO		dd		0.000
18	FUNCTION3 PFK	35.37	4.311e4					1.9	NO		bd		0.000
19	FUNCTION3 PFK	35.30	6.952e4					1.9	NO		bb		0.000
20	FUNCTION3 PFK	35.18	5.218e4					1.9	NO		bb		0.000
21	FUNCTION3 PFK	35.07	3.138e4					1.1	NO		bb		0.000
22	FUNCTION3 PFK	38.40	4.517e5					10.9	YES		db		0.000
23	FUNCTION3 PFK	38.38	2.609e5					10.8	YES		dd		0.000
24	FUNCTION3 PFK	38.32	6.771e5					12.3	YES		dd		0.000
25	FUNCTION3 PFK	38.27	1.977e5					12.0	YES		dd		0.000
26	FUNCTION3 PFK	38.21	1.076e6					14.5	YES		dd		0.000
27	FUNCTION3 PFK	38.13	4.074e5					10.2	YES		dd		0.000
28	FUNCTION3 PFK	38.03	1.042e6					13.5	YES		bd		0.000
29	FUNCTION3 PFK	37.88	1.207e5					3.8	YES		db		0.000
30	FUNCTION3 PFK	37.82	4.729e5					6.8	YES		dd		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.79	2.227e5					6.7	YES		bb		
2	FUNCTION4 PFK	39.44	5.152e5					11.9	YES		bb		
3	FUNCTION4 PFK	39.09	3.102e5					8.5	YES		db		
4	FUNCTION4 PFK	39.01	2.286e5					8.6	YES		bd		
5	FUNCTION4 PFK	38.84	6.488e5					13.0	YES		bb		
6	FUNCTION4 PFK	38.68	6.601e5					14.4	YES		bb		
7	FUNCTION4 PFK	44.09	1.717e5					4.9	YES		bb		
8	FUNCTION4 PFK	43.58	2.663e5					5.6	YES		db		
9	FUNCTION4 PFK	43.42	4.431e5					7.9	YES		bd		
10	FUNCTION4 PFK	43.07	5.929e5					8.3	YES		bb		
11	FUNCTION4 PFK	41.69	1.860e4					1.5	NO		bb		
12	FUNCTION4 PFK	40.84	2.390e5					4.8	YES		bb		
13	FUNCTION4 PFK	40.32	9.352e4					3.7	YES		bb		
14	FUNCTION4 PFK	40.02	3.674e5					4.8	YES		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.17	2.063e3					0.5	NO		bb		
2	FUNCTION5 PFK	45.07	2.269e4					1.3	NO		bb		
3	FUNCTION5 PFK	44.96	2.700e4					2.1	NO		db		
4	FUNCTION5 PFK	44.92	7.595e3					1.0	NO		bd		
5	FUNCTION5 PFK	44.72	2.436e4					2.3	NO		db		
6	FUNCTION5 PFK	44.68	1.887e4					1.7	NO		bd		
7	FUNCTION5 PFK	44.57	8.138e3					1.1	NO		bb		
8	FUNCTION5 PFK	47.13	1.518e4					1.2	NO		bb		
9	FUNCTION5 PFK	46.98	7.457e3					1.2	NO		db		
10	FUNCTION5 PFK	46.94	1.228e4					1.5	NO		bd		
11	FUNCTION5 PFK	46.77	3.572e3					0.6	NO		bb		
12	FUNCTION5 PFK	46.68	1.195e3					0.4	NO		bb		
13	FUNCTION5 PFK	46.65	2.768e3					0.6	NO		bb		
14	FUNCTION5 PFK	46.38	9.490e3					1.6	NO		bb		
15	FUNCTION5 PFK	46.33	5.470e3					0.9	NO		bb		
16	FUNCTION5 PFK	46.14	1.591e4					1.3	NO		db		
17	FUNCTION5 PFK	46.07	1.569e4					1.5	NO		bd		
18	FUNCTION5 PFK	45.74	9.320e2					0.3	NO		bb		
19	FUNCTION5 PFK	45.56	1.861e4					2.2	NO		bb		
20	FUNCTION5 PFK	45.53	5.624e3					1.0	NO		bb		
21	FUNCTION5 PFK	45.37	2.530e4					1.9	NO		db		
22	FUNCTION5 PFK	45.33	1.810e4					2.0	NO		dd		
23	FUNCTION5 PFK	45.29	1.948e4					2.0	NO		bd		
24	FUNCTION5 PFK	49.06	1.790e4					1.3	NO		bb		
25	FUNCTION5 PFK	49.00	1.030e3					0.4	NO		bb		
26	FUNCTION5 PFK	48.60	1.759e4					1.7	NO		bb		
27	FUNCTION5 PFK	48.57	1.052e3					0.4	NO		bb		
28	FUNCTION5 PFK	48.49	1.371e4					1.5	NO		bb		
29	FUNCTION5 PFK	48.39	4.310e3					0.8	NO		bb		
30	FUNCTION5 PFK	48.09	4.070e3					0.7	NO		bb		
31	FUNCTION5 PFK	47.90	1.640e4					0.9	NO		db		
32	FUNCTION5 PFK	47.82	9.966e3					1.3	NO		dd		
33	FUNCTION5 PFK	47.74	1.364e4					1.4	NO		bd		
34	FUNCTION5 PFK	47.70	6.128e3					1.1	NO		db		
35	FUNCTION5 PFK	47.66	1.407e4					1.6	NO		bd		
36	FUNCTION5 PFK	47.58	5.669e3					0.8	NO		bb		
37	FUNCTION5 PFK	47.46	1.566e4					1.1	NO		db		
38	FUNCTION5 PFK	47.38	1.128e4					1.4	NO		bd		
39	FUNCTION5 PFK	47.17	4.562e3					0.8	NO		bb		
40	FUNCTION5 PFK	49.46	1.111e4					1.0	NO		db		
41	FUNCTION5 PFK	49.43	3.453e3					0.7	NO		bd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.36	7.732e1					2.1	NO		bb		0.000
2	FUNCTION1 HPCD...	21.76	1.474e2					2.9	NO		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.86	7.764e1					3.3	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

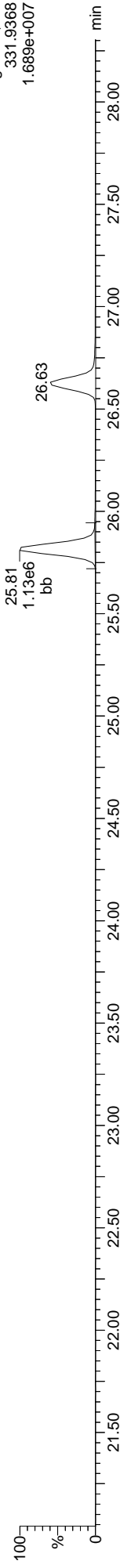
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

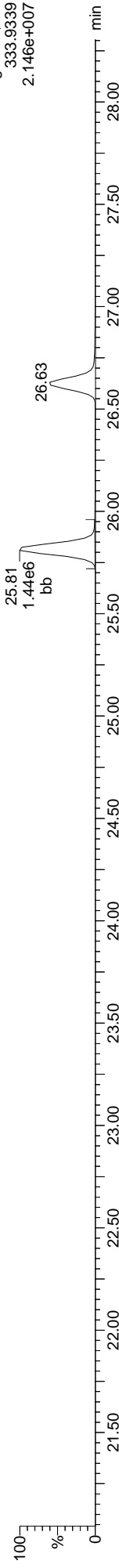
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

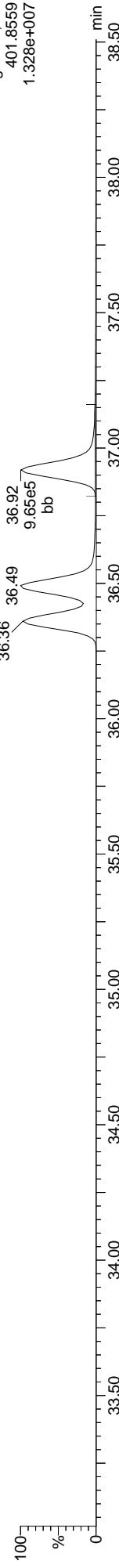
13C-1234-TCDD
17052204



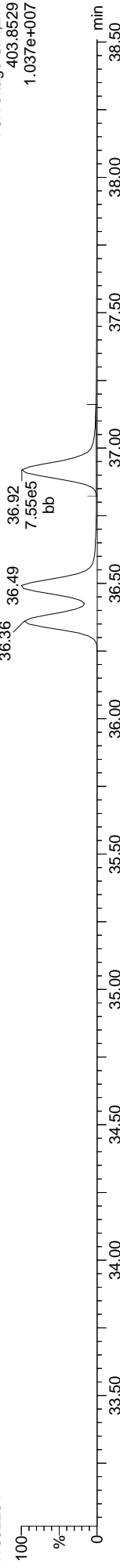
13C-1234-TCDD
17052204



13C-123789-HxCDD
17052204



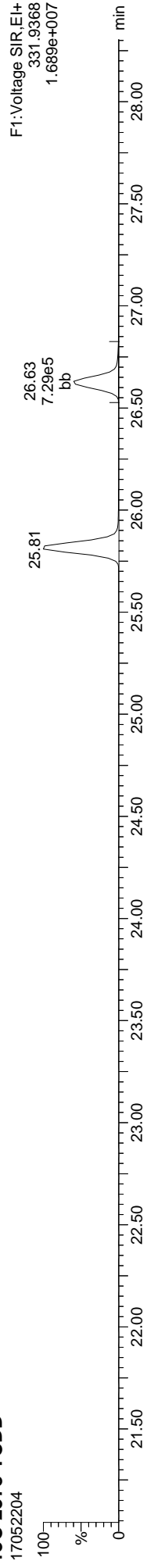
13C-123789-HxCDD
17052204



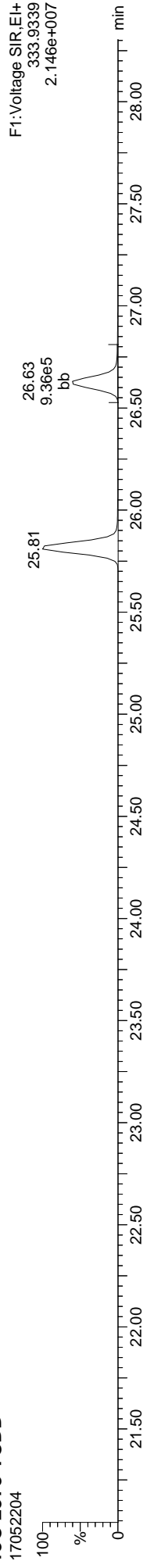
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

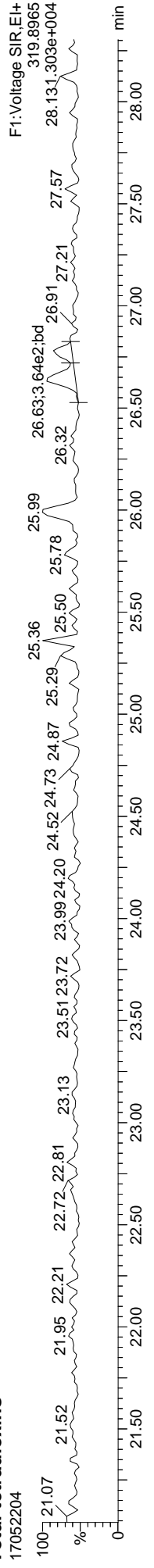
13C-2378-TCDD



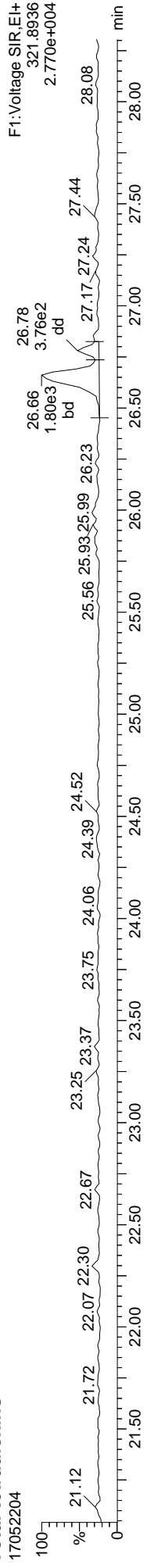
13C-2378-TCDD



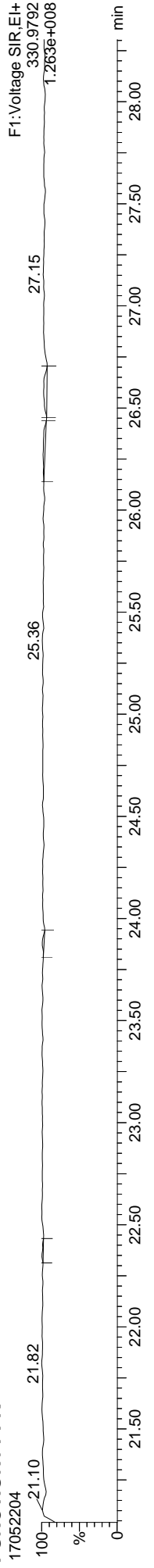
Total-tetradioxins



Total-tetradioxins



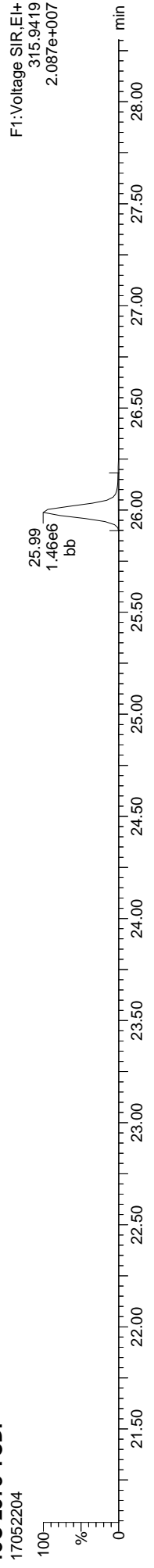
FUNCTION1 PFK



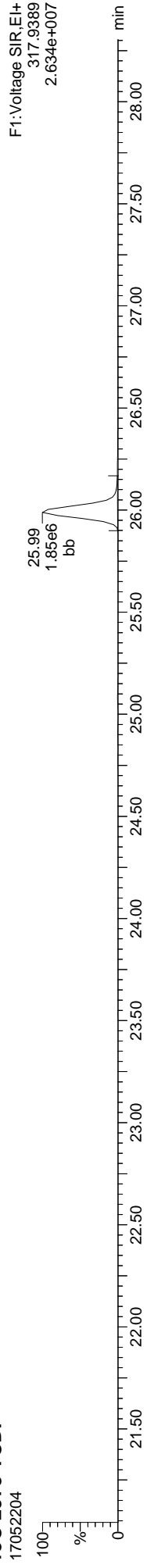
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

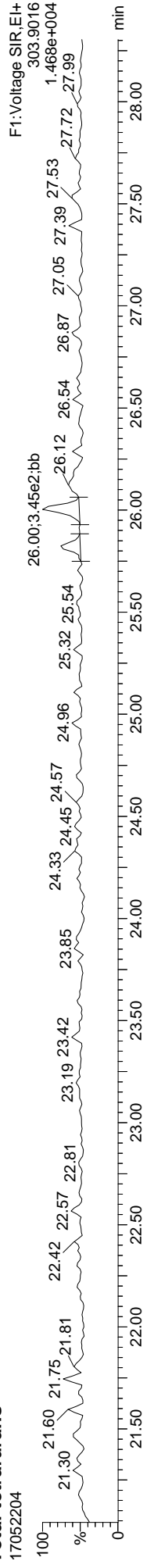
13C-2378-TCDF



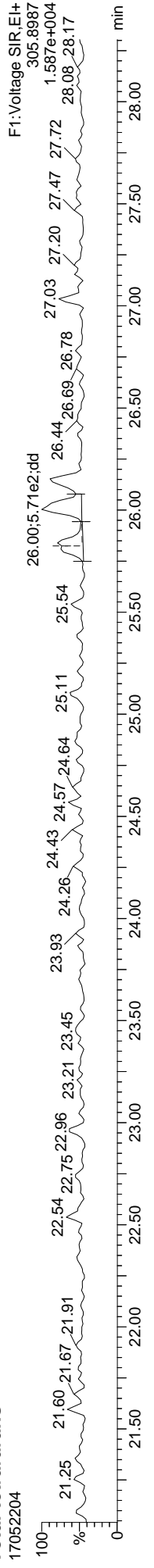
13C-2378-TCDF



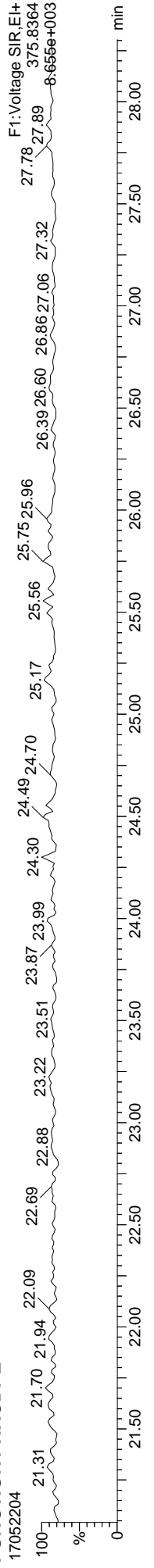
Total-tetrafurans



Total-tetrafurans



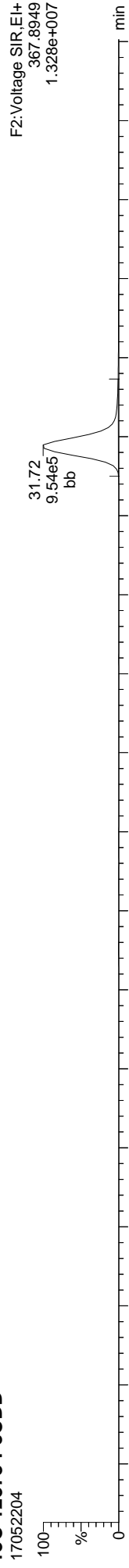
FUNCTION1 HXCDFE



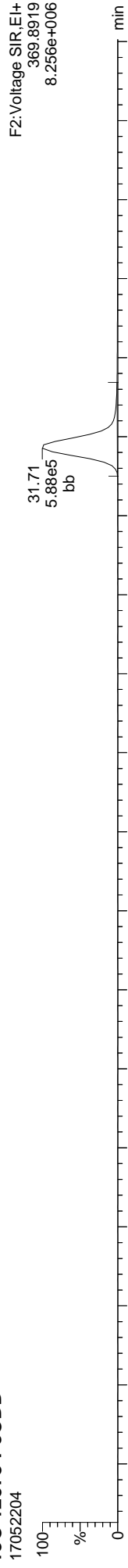
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

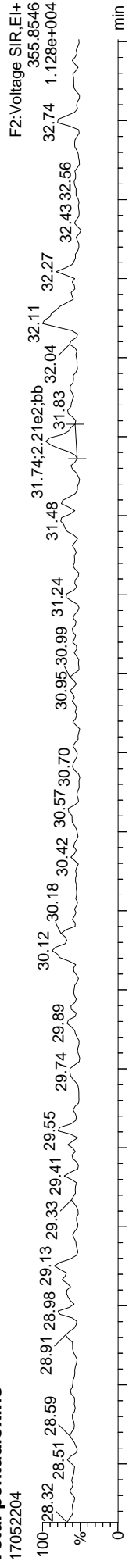
13C-12378-PeCDD



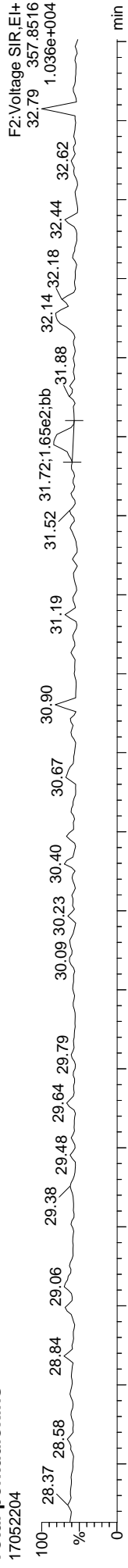
13C-12378-PeCDD



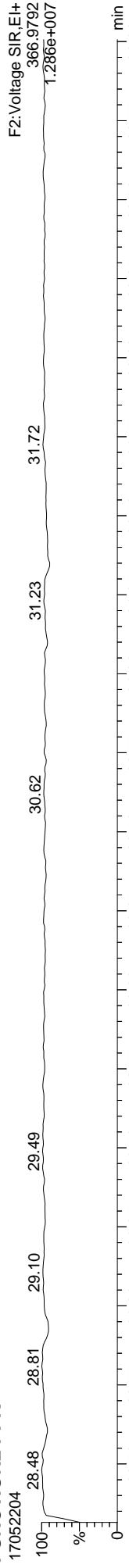
Total-pentadioxins



Total-pentadioxins



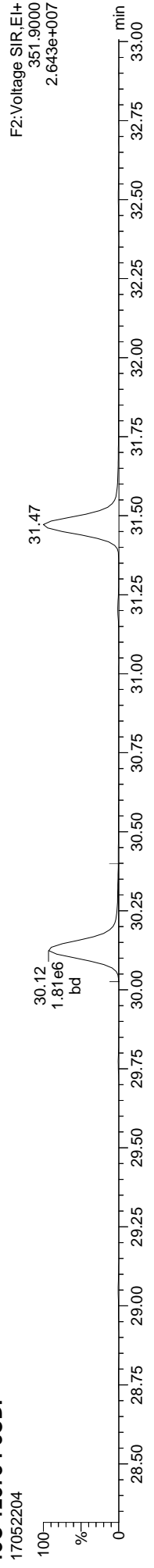
FUNCTION2 PFK



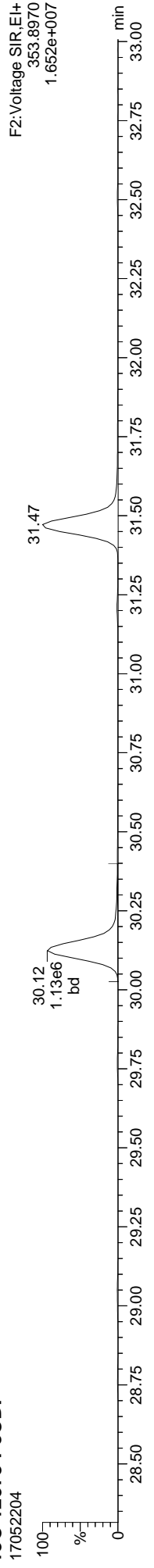
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

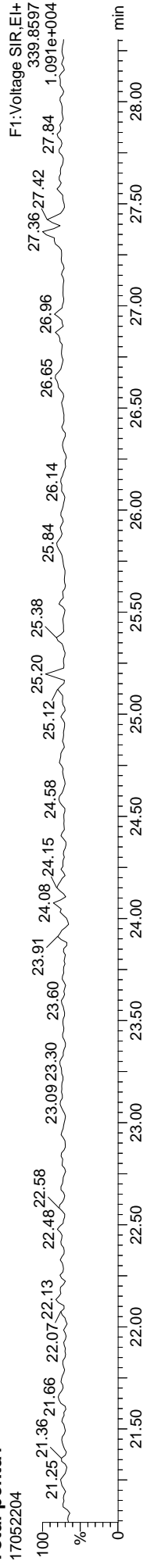
13C-12378-PeCDF



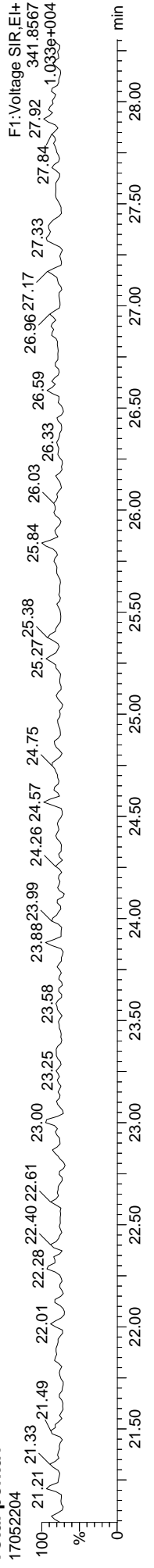
13C-12378-PeCDF



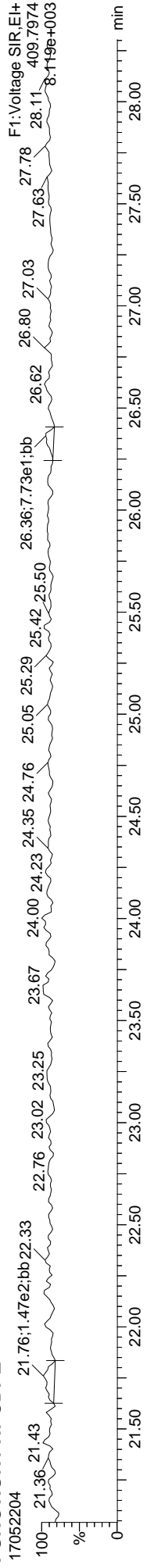
Total-penta1



Total-penta1



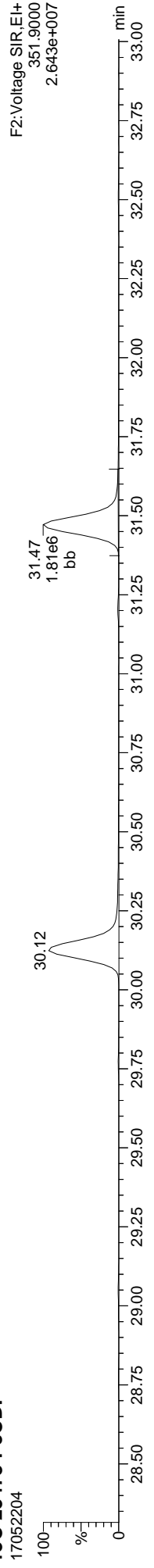
FUNCTION1 HPCDPE



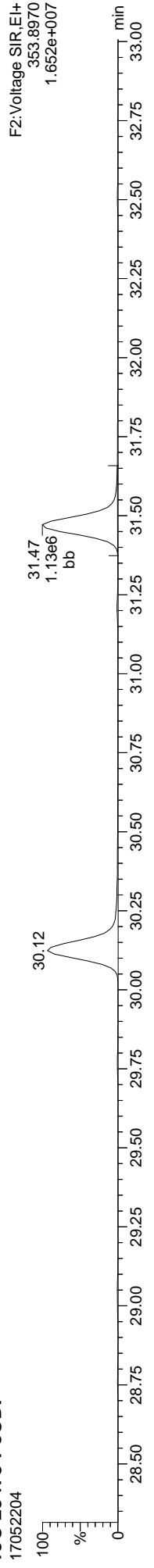
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

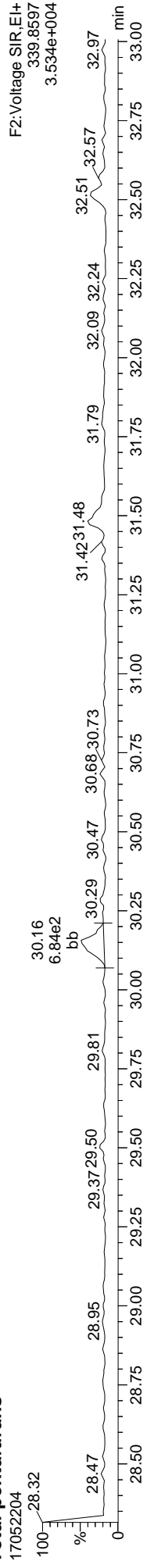
13C-23478-PeCDF



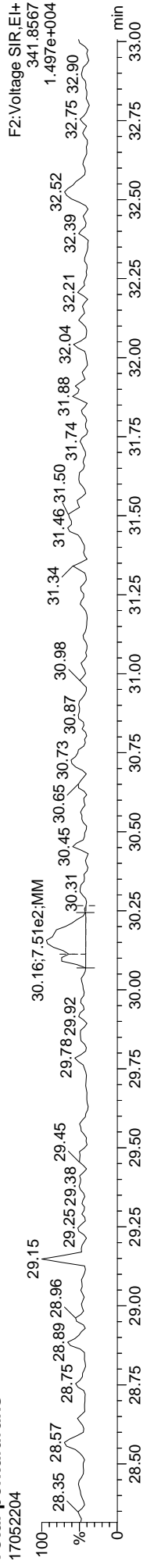
13C-23478-PeCDF



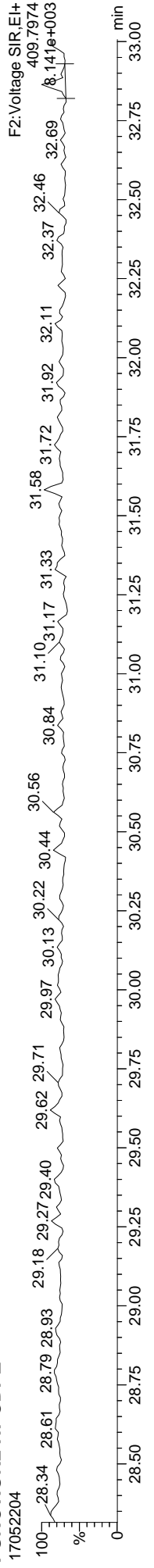
Total-pentafurans



Total-pentafurans



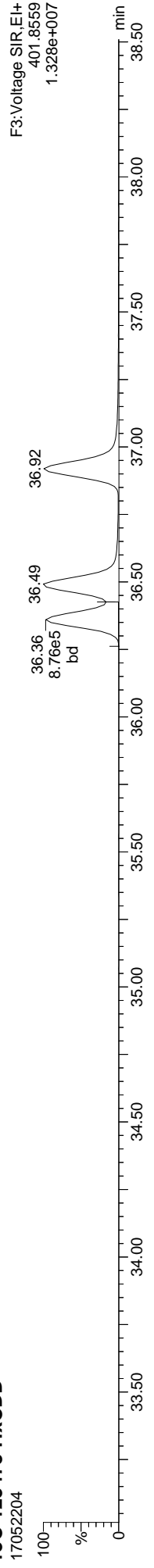
FUNCTION2 HPCDPE



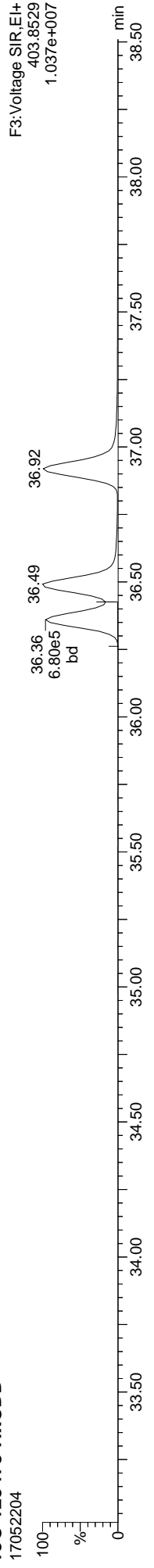
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

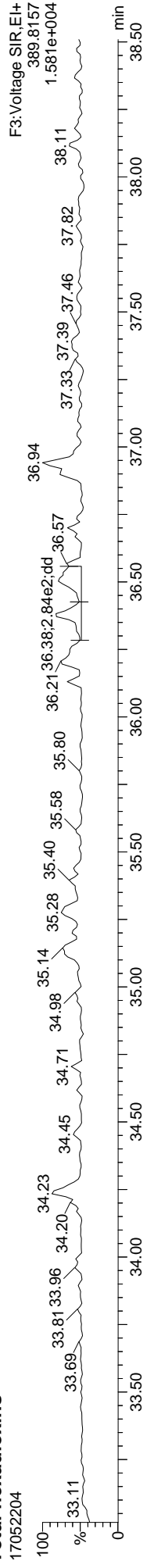
13C-123478-HxCDD



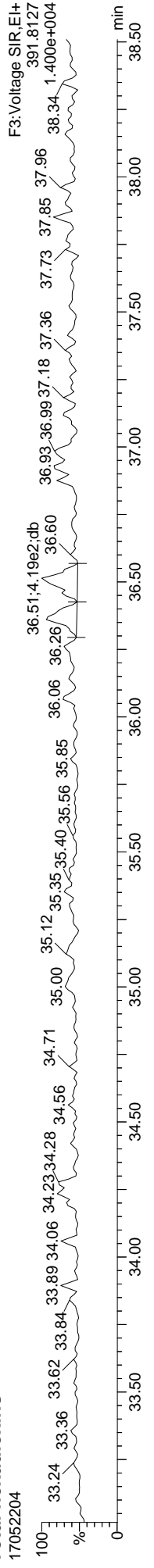
13C-123478-HxCDD



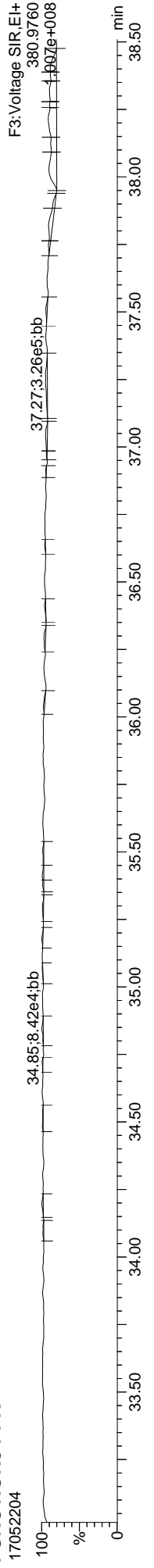
Total-hexadioxins



Total-hexadioxins



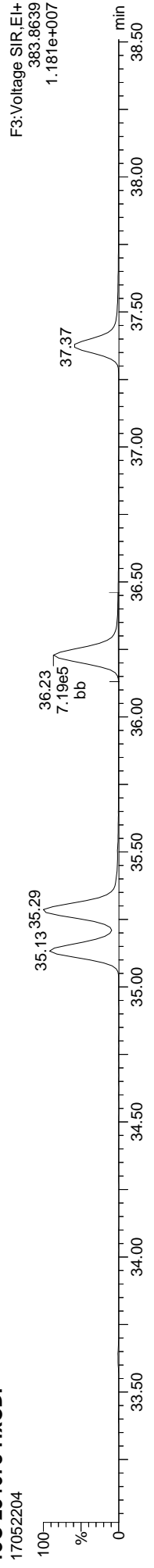
FUNCTION3 PFK



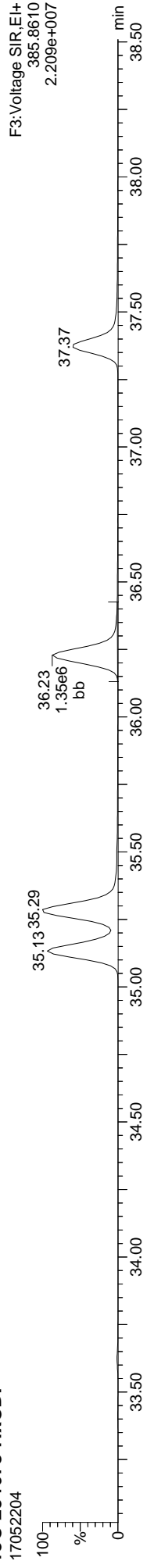
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

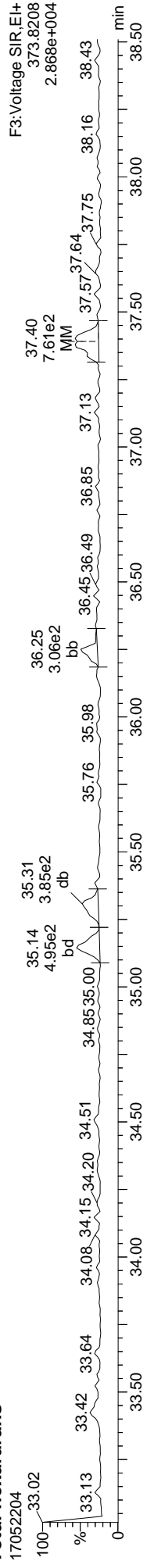
13C-234678-HxCDF



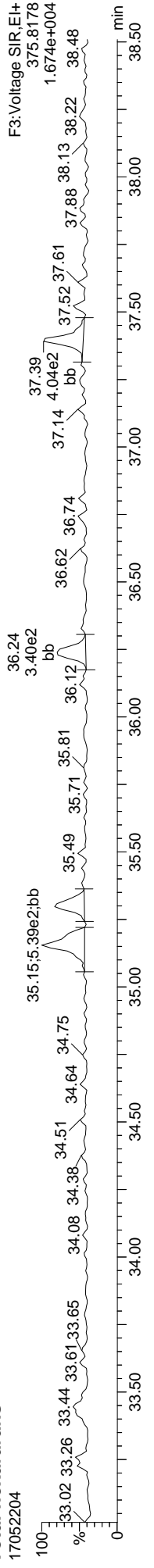
13C-234678-HxCDF



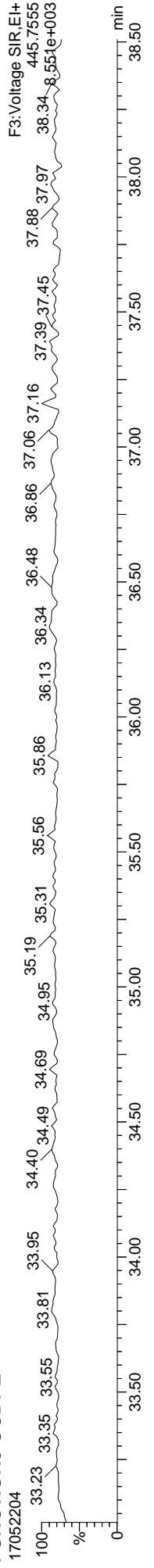
Total-hexafurans



Total-hexafurans



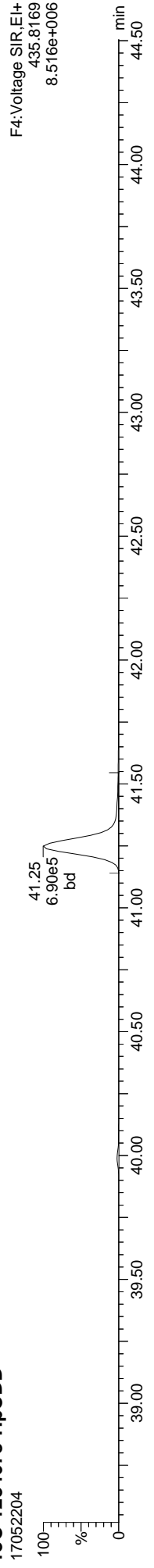
FUNCTION3 OCDPE



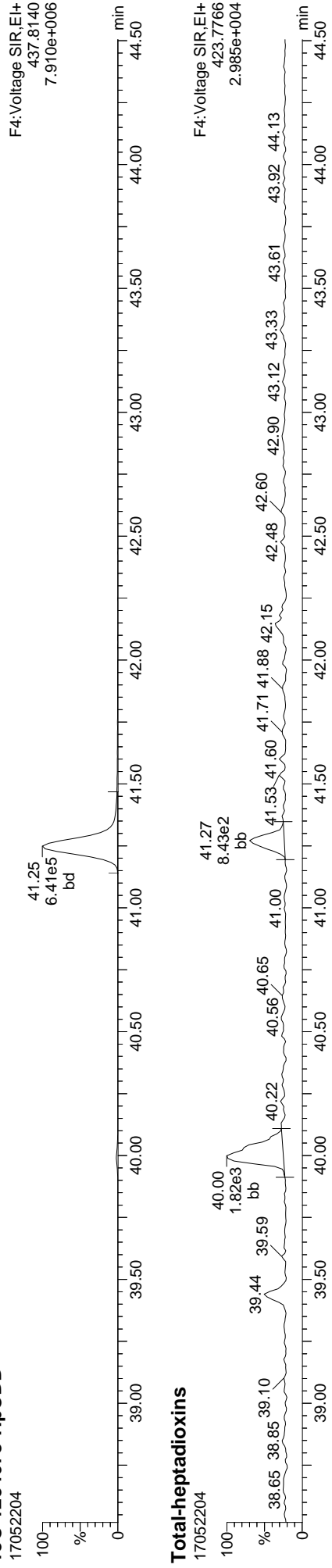
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

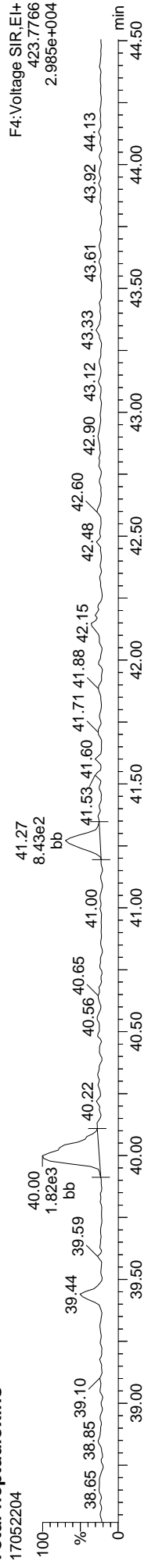
13C-1234678-HpCDD



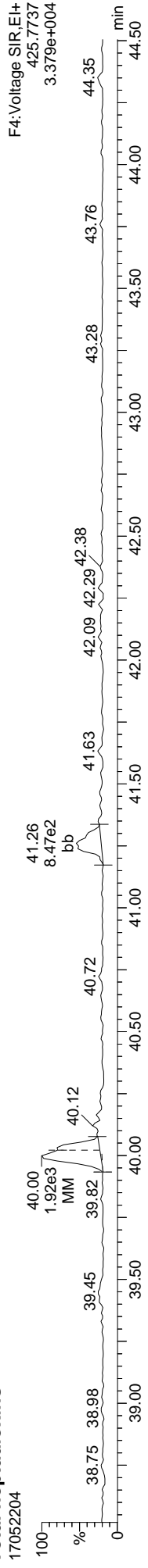
13C-1234678-HpCDD



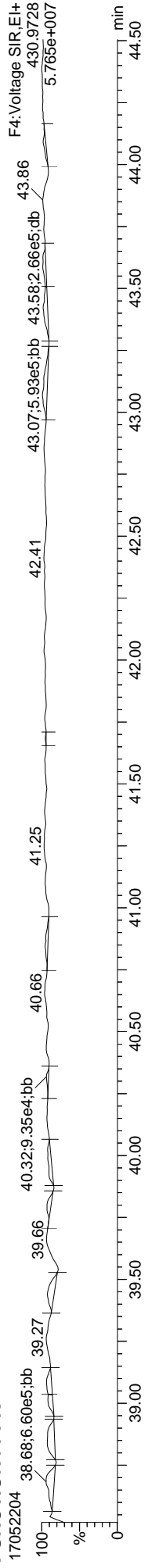
Total-heptadioxins



Total-heptadioxins



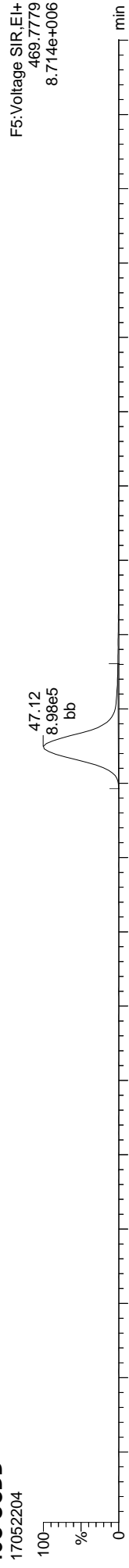
FUNCTION4 PFK



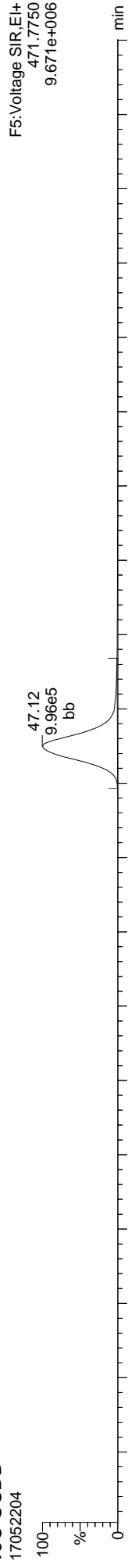
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

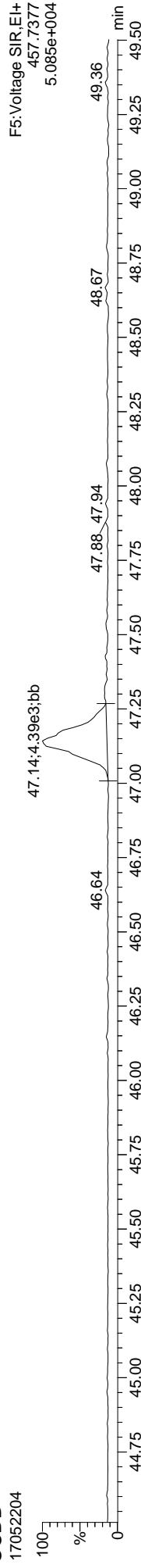
13C-OCDD



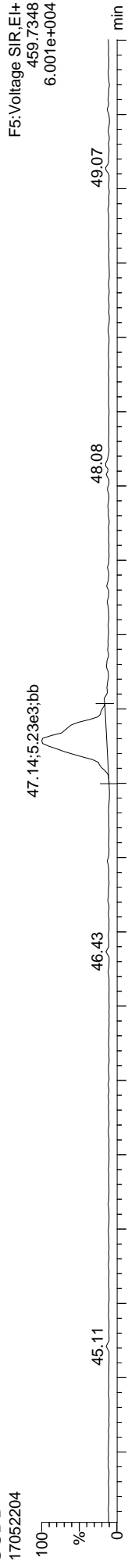
13C-OCDD



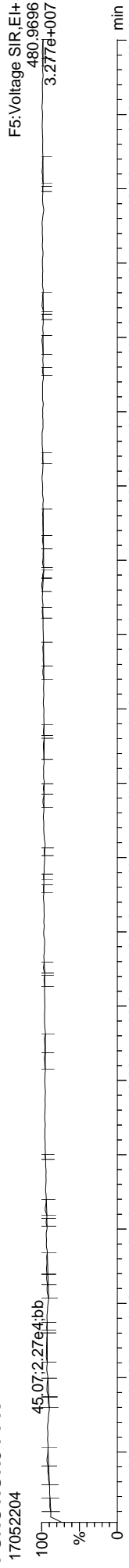
OCDD



OCDD



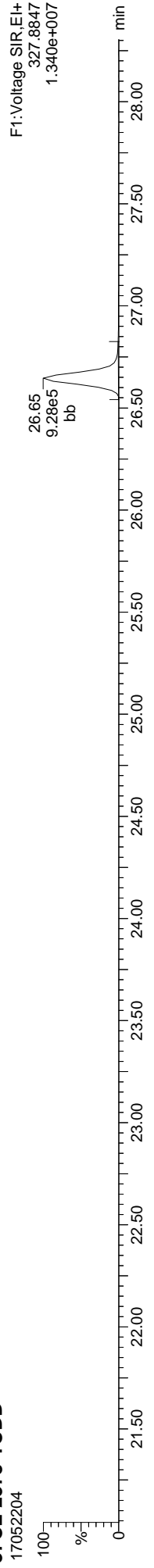
FUNCTION5 PFK



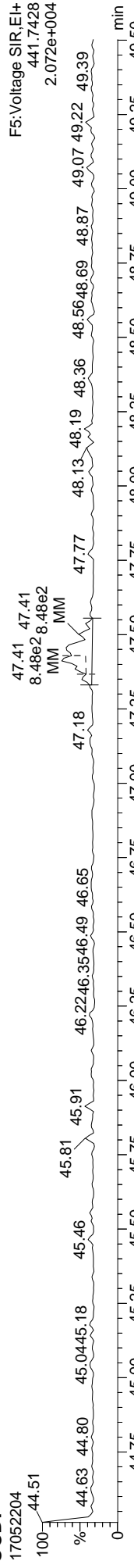
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:46 Pacific Daylight Time

ID: BFE0233-BLK1, Name: 17052204, Date: 22-May-2017, Time: 12:05:50, Conditions: AUTOSPEC01, User: PK

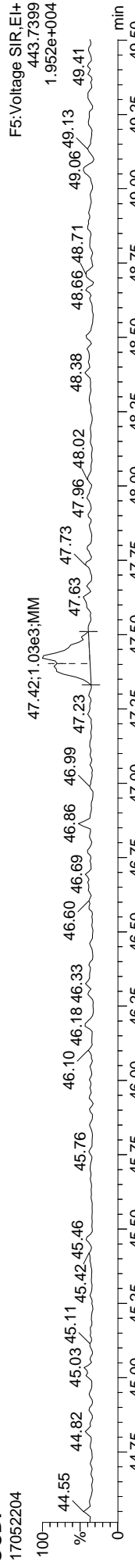
37CL-2378-TCDD



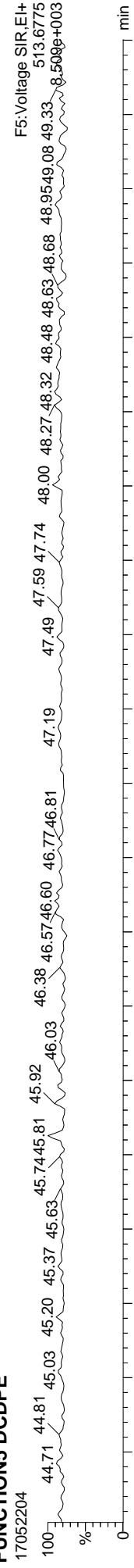
OCDF



OCDF



FUNCTION5 DCDPE





LCS / LCS DUPLICATE RECOVERY
EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17D0421

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Analyzed: 05/22/17 12:57

Batch: BFE0233

Laboratory ID: BFE0233-BS1

Preparation: EPA 1613

Initial/Final: 10 g / 20 uL

COMPOUND	SPIKE ADDED (ng/kg)	LCS CONCENTRATION (ng/kg)	LCS % REC.	QC LIMITS REC.	Q
2,3,7,8-TCDF	20.0	19.7	98.4	75 - 158	
2,3,7,8-TCDD	20.0	19.7	98.7	67 - 158	
1,2,3,7,8-PeCDF	100	102	102	80 - 134	
2,3,4,7,8-PeCDF	100	96.9	96.9	68 - 160	
1,2,3,7,8-PeCDD	100	101	101	70 - 142	
1,2,3,4,7,8-HxCDF	100	102	102	72 - 134	
1,2,3,6,7,8-HxCDF	100	101	101	84 - 130	
2,3,4,6,7,8-HxCDF	100	103	103	70 - 156	
1,2,3,7,8,9-HxCDF	100	105	105	78 - 130	
1,2,3,4,7,8-HxCDD	100	98.5	98.5	70 - 164	
1,2,3,6,7,8-HxCDD	100	103	103	76 - 134	
1,2,3,7,8,9-HxCDD	100	104	104	64 - 162	
1,2,3,4,6,7,8-HpCDF	100	109	109	82 - 122	
1,2,3,4,7,8,9-HpCDF	100	103	103	78 - 138	
1,2,3,4,6,7,8-HpCDD	100	98.2	98.2	70 - 140	
OCDF	200	190	94.8	63 - 170	
OCDD	200	193	96.6	78 - 144	
13C12-2,3,7,8-TCDF	200	158	78.8	24 - 169	

Labels

13C12-2,3,7,8-TCDD	200	159	79.3	25 - 164	
13C12-1,2,3,7,8-PeCDF	200	140	70.0	24 - 185	
13C12-2,3,4,7,8-PeCDF	200	145	72.3	21 - 178	
13C12-1,2,3,7,8-PeCDD	200	146	73.1	25 - 181	
13C12-1,2,3,4,7,8-HxCDF	200	148	74.2	26 - 152	
13C12-1,2,3,6,7,8-HxCDF	200	147	73.7	26 - 123	
13C12-2,3,4,6,7,8-HxCDF	200	151	75.7	28 - 136	
13C12-1,2,3,7,8,9-HxCDF	200	141	70.7	29 - 147	
13C12-1,2,3,4,7,8-HxCDD	200	160	80.0	32 - 141	
13C12-1,2,3,6,7,8-HxCDD	200	152	75.9	28 - 130	
13C12-1,2,3,4,6,7,8-HpCDF	200	133	66.5	28 - 143	
13C12-1,2,3,4,7,8,9-HpCDF	200	147	73.4	26 - 138	
13C12-1,2,3,4,6,7,8-HpCDD	200	162	81.1	23 - 140	
13C12-OCDD	400	302	75.4	17 - 157	
37C14-2,3,7,8-TCDD	80.0	70.7	88.4	35 - 197	

* Values outside of QC limits

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurvedB\170518CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.003	1.001	1.400e5	1.858e5	1.018	0.753	0.770	1246	1474	1.96e6	2.58e6	1572.5	YES	NO	bd	bd	9.843
12378-PeCDF	30.135	1.001	8.807e5	5.746e5	0.977	1.533	1.550	3621	3241	1.23e7	7.91e6	3384.4	YES	NO	bd	bd	50.964
23478-PeCDF	31.472	1.000	8.727e5	5.543e5	1.019	1.574	1.550	3621	3241	1.27e7	8.20e6	3509.8	YES	NO	bd	bd	48.465
123478-HxCDF	35.144	1.001	6.822e5	5.681e5	1.150	1.201	1.240	3311	4637	9.85e6	8.07e6	2975.9	YES	NO	bd	bd	51.087
234678-HxCDF	36.240	1.001	6.888e5	5.657e5	1.188	1.218	1.240	3311	4637	9.57e6	7.86e6	2890.1	YES	NO	bd	bd	51.709
123678-HxCDF	35.287	1.000	7.443e5	6.147e5	1.100	1.211	1.240	3311	4637	1.04e7	8.61e6	3142.1	YES	NO	db	db	50.555
123789-HxCDF	37.380	1.000	5.093e5	4.036e5	1.116	1.262	1.240	3311	4637	6.99e6	5.64e6	2109.9	YES	NO	bd	bd	52.551
1234678-HpCDF	39.440	1.000	5.406e5	5.507e5	1.238	0.982	1.050	2709	2472	7.55e6	7.77e6	2788.3	YES	NO	bd	bd	54.484
1234789-HpCDF	42.148	1.000	3.912e5	3.845e5	1.257	1.018	1.050	2709	2472	4.60e6	4.54e6	1698.0	YES	NO	bd	bd	51.533
OCDF	47.411	1.006	5.592e5	6.297e5	1.321	0.888	0.890	1812	3478	5.30e6	5.87e6	2923.3	YES	NO	bd	bd	94.770
2378-TCDD	26.631	1.001	9.139e4	1.167e5	1.244	0.783	0.770	1808	1159	1.29e6	1.64e6	715.6	YES	NO	bd	bd	9.872
12378-PeCDD	31.724	1.001	5.042e5	3.168e5	1.058	1.592	1.550	3204	1516	7.28e6	4.63e6	2271.5	YES	NO	bd	bd	50.366
123478-HxCDD	36.372	1.001	4.756e5	3.620e5	1.119	1.314	1.240	2748	2359	6.85e6	5.36e6	2492.6	YES	NO	bd	bd	49.254
123678-HxCDD	36.492	1.000	4.812e5	3.882e5	1.040	1.240	1.240	2748	2359	6.76e6	5.30e6	2462.1	YES	NO	dd	dd	51.319
123789-HxCDD	36.920	1.012	4.487e5	3.552e5	0.981	1.263	1.240	2748	2359	6.06e6	4.86e6	2204.4	YES	NO	bd	bd	52.080
1234678-HpCDD	41.260	1.000	3.631e5	3.463e5	1.132	1.048	1.050	1661	1874	4.56e6	4.30e6	2742.0	YES	NO	bd	bd	49.079
OCDD	47.133	1.000	4.869e5	5.373e5	1.117	0.906	0.890	2181	1529	4.92e6	5.47e6	2255.4	YES	NO	bd	bd	96.557
13C-2378-TCDF	25.974	1.006	1.429e6	1.822e6	1.685	0.785	0.770	7608	3492	2.02e7	2.60e7	2656.7	YES	NO	bd	bd	78.794
13C-12378-PeCDF	30.113	1.167	1.807e6	1.117e6	1.706	1.617	1.550	3912	3583	2.51e7	1.56e7	6409.0	YES	NO	bd	bd	70.001
13C-23478-PeCDF	31.461	1.219	1.772e6	1.117e6	1.632	1.586	1.550	3912	3583	2.58e7	1.61e7	6588.5	YES	NO	bd	bd	72.283
13C-123478-HxCDF	35.122	0.952	7.301e5	1.398e6	1.682	0.522	0.510	4168	5792	1.05e7	2.03e7	2531.1	YES	NO	bd	bd	74.188
13C-123678-HxCDF	35.276	0.956	8.218e5	1.622e6	1.945	0.507	0.510	4168	5792	1.15e7	2.18e7	2749.2	YES	NO	db	db	73.684
13C-234678-HxCDF	36.218	0.981	7.053e5	1.337e6	1.582	0.527	0.510	4168	5792	9.95e6	1.89e7	2386.5	YES	NO	bd	bd	75.703
13C-123789-HxCDF	37.369	1.013	5.379e5	1.019e6	1.291	0.528	0.510	4168	5792	7.43e6	1.41e7	1782.6	YES	NO	bd	bd	70.725
13C-1234678-HpCDF	39.430	1.068	5.128e5	1.105e6	1.427	0.464	0.440	1964	2988	7.14e6	1.55e7	3637.7	YES	NO	bd	bd	66.515
13C-1234789-HpCDF	42.126	1.141	3.648e5	8.325e5	0.957	0.438	0.440	1964	2988	4.35e6	9.71e6	2212.6	YES	NO	bd	bd	73.375
13C-1234-TCDD	25.809	0.000	1.078e6	1.371e6	1.000	0.786	0.770	3023	1724	1.54e7	1.97e7	5103.1	YES	NO	bd	bd	100.000
13C-2378-TCDD	26.616	1.031	7.404e5	9.541e5	0.873	0.776	0.770	3023	1724	1.02e7	1.32e7	3386.4	YES	NO	bd	bd	79.278
13C-12378-PeCDD	31.702	1.228	9.435e5	5.968e5	0.860	1.581	1.550	1769	1292	1.34e7	8.47e6	7601.0	YES	NO	bd	bd	73.130
13C-123478-HxCDD	36.350	0.985	8.558e5	6.637e5	1.114	1.289	1.240	3935	1899	1.25e7	9.75e6	3183.8	YES	NO	bd	bd	80.015
13C-123678-HxCDD	36.481	0.988	9.063e5	7.222e5	1.258	1.255	1.240	3935	1899	1.27e7	1.01e7	3231.0	YES	NO	db	db	75.887
13C-1234678-HpCDD	41.238	1.117	6.579e5	6.191e5	0.924	1.063	1.050	2117	1638	8.52e6	8.04e6	4023.9	YES	NO	bd	bd	81.080
13C-OCDD	47.115	1.276	9.092e5	9.903e5	0.738	0.918	0.890	1708	2721	8.59e6	9.65e6	5029.0	YES	NO	bd	bd	150.876
13C-123789-HxCDD	36.909	0.000	9.454e5	7.597e5	1.000	1.244	1.240	3935	1899	1.33e7	1.03e7	3378.1	YES	NO	bd	bd	100.000
Total-tetrafurans			1.448e5		1.018			1246		2.03e6							10.158

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg	
Total-penta1			0.000e0					1144		0.00e0								
Total-pentafurans			1.804e6		0.998			3621		2.56e7								102.371
Total-hexafurans			2.637e6		1.138			3311		3.70e7								206.903
Total-heptafurans			9.363e5		1.248			2709		1.22e7								106.495
Total-Furans			6.081e6		1.138			1246		8.21e7								520.697
Total-tetradioxins			9.402e4		1.244			1808		1.33e6								10.137
Total-pentadioxins			5.052e5		1.058			3204		7.29e6								50.466
Total-hexadioxins			1.406e6		1.047			2748		1.97e7								152.771
Total-heptadioxins			3.660e5		1.132			1661		4.60e6								49.471
Total-Dioxins			2.858e6		1.099			1808		3.78e7								359.413
Total-TEQ			8.940e6					1808		1.20e8								880.110
37CL-2378-TCDD	26.631	1.032	8.846e5		1.021			1478		1.25e7		8475.6	YES		bb			35.369
FUNCTION1 PFK			6.176e5					1030239		8.33e6								
FUNCTION2 PFK			6.693e4					119735		1.44e6								0.000
FUNCTION3 PFK			4.714e6					608441		3.18e7								0.000
FUNCTION4 PFK			4.614e6					443272		5.22e7								
FUNCTION5 PFK			1.422e5					297193		6.11e6								
FUNCTION1 HXCD...			3.841e2					1002		7.06e3								0.000
FUNCTION1 HPCD...			1.046e3					932		1.55e4								0.000
FUNCTION2 HPCD...			5.262e2					797		1.01e4								0.000
FUNCTION3 OCDPE			1.023e2					745		1.94e3								0.000
FUNCTION4 NCDPE			1.694e2					648		5.48e3								0.000
FUNCTION5 DCDPE			1.096e2					852		2.14e3								0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	1.400e5	1.858e5	1.018	0.75	0.77	1572.5	YES	NO	bd	bd	9.843
2	Total-tetrafurans	25.79	2.340e2	3.894e2	1.018	0.60	0.77	3.5	YES	YES	bb	bb	0.019
3	Total-tetrafurans	25.08	1.761e3	2.164e3	1.018	0.81	0.77	21.1	YES	NO	db	bb	0.119
4	Total-tetrafurans	24.91	1.526e3	1.235e3	1.018	1.24	0.77	15.6	YES	YES	dd	db	0.083
5	Total-tetrafurans	24.76	1.213e3	1.923e3	1.018	0.63	0.77	14.4	YES	YES	bd	bd	0.095

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.47	8.727e5	5.543e5	1.019	1.57	1.55	3509.8	YES	NO	bd	bb	48.465
2	Total-pentafurans	31.20	1.118e3	8.424e2	0.998	1.33	1.55	4.5	YES	NO	bb	bb	0.068
3	Total-pentafurans	30.33	2.993e4	1.885e4	0.998	1.59	1.55	95.4	YES	NO	db	dd	1.682
4	12378-PeCDF	30.14	8.807e5	5.746e5	0.977	1.53	1.55	3384.4	YES	NO	bd	bd	50.964
5	Total-pentafurans	29.77	3.899e3	3.675e3	0.998	1.06	1.55	16.6	YES	YES	bd	bb	0.261
6	Total-pentafurans	29.06	9.876e3	8.034e3	0.998	1.23	1.55	38.2	YES	YES	db	bb	0.617
7	Total-pentafurans	32.51	5.693e3	3.425e3	0.998	1.66	1.55	19.4	YES	NO	bb	bb	0.314

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.42	2.386e3	2.302e3	1.138	1.04	1.24	10.3	YES	YES	bb	bb	0.202
2	123789-HxCDF	37.38	5.093e5	4.036e5	1.116	1.26	1.24	2109.9	YES	NO	bd	bd	52.551
3	234678-HxCDF	36.24	6.888e5	5.657e5	1.188	1.22	1.24	2890.1	YES	NO	bd	bb	51.709
4	123678-HxCDF	35.29	7.443e5	6.147e5	1.100	1.21	1.24	3142.1	YES	NO	db	db	50.555
5	123478-HxCDF	35.14	6.822e5	5.681e5	1.150	1.20	1.24	2975.9	YES	NO	bd	bd	51.087
6	Total-hexafurans	34.98	1.043e3	8.274e2	1.138	1.26	1.24	5.7	YES	NO	bb	bb	0.080
7	Total-hexafurans	33.63	9.148e3	7.565e3	1.138	1.21	1.24	37.8	YES	NO	bb	bb	0.719

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	42.15	3.912e5	3.845e5	1.257	1.02	1.05	1698.0	YES	NO	bd	bb	51.533
2	Total-heptafurans	40.26	4.396e3	4.006e3	1.248	1.10	1.05	19.5	YES	NO	bb	bb	0.478
3	1234678-HpCDF	39.44	5.406e5	5.507e5	1.238	0.98	1.05	2788.3	YES	NO	bb	bd	54.484

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	1.400e5	1.858e5	1.018	0.75	0.77	1572.5	YES	NO	bd	bd	9.843
2	Total-tetrafurans	25.79	2.340e2	3.894e2	1.018	0.60	0.77	3.5	YES	YES	bb	bb	0.019
3	Total-tetrafurans	25.08	1.761e3	2.164e3	1.018	0.81	0.77	21.1	YES	NO	db	bb	0.119
4	Total-tetrafurans	24.91	1.526e3	1.235e3	1.018	1.24	0.77	15.6	YES	YES	dd	db	0.083
5	Total-tetrafurans	24.76	1.213e3	1.923e3	1.018	0.63	0.77	14.4	YES	YES	bd	bd	0.095
6	23478-PeCDF	31.47	8.727e5	5.543e5	1.019	1.57	1.55	3509.8	YES	NO	bd	bb	48.465
7	Total-pentafurans	31.20	1.118e3	8.424e2	0.998	1.33	1.55	4.5	YES	NO	bb	bb	0.068
8	Total-pentafurans	30.33	2.993e4	1.885e4	0.998	1.59	1.55	95.4	YES	NO	db	dd	1.682
9	12378-PeCDF	30.14	8.807e5	5.746e5	0.977	1.53	1.55	3384.4	YES	NO	bd	bd	50.964
10	Total-pentafurans	29.77	3.899e3	3.675e3	0.998	1.06	1.55	16.6	YES	YES	bd	bb	0.261
11	Total-pentafurans	29.06	9.876e3	8.034e3	0.998	1.23	1.55	38.2	YES	YES	db	bb	0.617
12	Total-hexafurans	33.42	2.386e3	2.302e3	1.138	1.04	1.24	10.3	YES	YES	bb	bb	0.202
13	Total-pentafurans	32.51	5.693e3	3.425e3	0.998	1.66	1.55	19.4	YES	NO	bb	bb	0.314
14	123789-HxCDF	37.38	5.093e5	4.036e5	1.116	1.26	1.24	2109.9	YES	NO	bd	bd	52.551
15	234678-HxCDF	36.24	6.888e5	5.657e5	1.188	1.22	1.24	2890.1	YES	NO	bd	bb	51.709
16	123678-HxCDF	35.29	7.443e5	6.147e5	1.100	1.21	1.24	3142.1	YES	NO	db	db	50.555
17	123478-HxCDF	35.14	6.822e5	5.681e5	1.150	1.20	1.24	2975.9	YES	NO	bd	bd	51.087
18	Total-hexafurans	34.98	1.043e3	8.274e2	1.138	1.26	1.24	5.7	YES	NO	bb	bb	0.080
19	Total-hexafurans	33.63	9.148e3	7.565e3	1.138	1.21	1.24	37.8	YES	NO	bb	bb	0.719
20	1234789-HpCDF	42.15	3.912e5	3.845e5	1.257	1.02	1.05	1698.0	YES	NO	bd	bb	51.533
21	Total-heptafurans	40.26	4.396e3	4.006e3	1.248	1.10	1.05	19.5	YES	NO	bb	bb	0.478
22	1234678-HpCDF	39.44	5.406e5	5.507e5	1.238	0.98	1.05	2788.3	YES	NO	bb	bd	54.484
23	OCDF	47.41	5.592e5	6.297e5	1.321	0.89	0.89	2923.3	YES	NO	bb	bd	94.770

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.63	9.139e4	1.167e5	1.244	0.78	0.77	715.6	YES	NO	bb	bb	9.872
2	Total-tetradoxins	26.26	2.633e3	2.966e3	1.244	0.89	0.77	20.4	YES	YES	bb	bb	0.266

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.72	5.042e5	3.168e5	1.058	1.59	1.55	2271.5	YES	NO	bb	bb	50.366
2	Total-pentadoxins	31.04	9.220e2	6.993e2	1.058	1.32	1.55	3.2	YES	NO	bb	bb	0.099

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.49	4.812e5	3.882e5	1.040	1.24	1.24	2462.1	YES	NO	dd	dd	51.319
2	123478-HxCDD	36.37	4.756e5	3.620e5	1.119	1.31	1.24	2492.6	YES	NO	bd	bd	49.254
3	Total-hexadoxins	37.24	5.655e2		1.047			5.4	YES		dd		0.097
4	123789-HxCDD	36.92	4.487e5	3.552e5	0.981	1.26	1.24	2204.4	YES	NO	bd	bd	52.080
5	Total-hexadoxins	36.77	1.664e2	1.636e2	1.047	1.02	1.24	2.5	NO	YES	db	db	0.020

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	41.26	3.631e5	3.463e5	1.132	1.05	1.05	2742.0	YES	NO	bd	bd	49.079
2	Total-heptadoxins	40.00	2.930e3	2.740e3	1.132	1.07	1.05	26.1	YES	NO	bb	bb	0.392

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Dioxins	27.86	9.742e1	9.189e1	1.099	1.06	0.77	1.3	NO	YES	bb	bb	0.010
2	2378-TCDD	26.63	9.139e4	1.167e5	1.244	0.78	0.77	715.6	YES	NO	bb	bb	9.872
3	Total-tetradoxins	26.26	2.633e3	2.966e3	1.244	0.89	0.77	20.4	YES	YES	bb	bb	0.266
4	12378-PeCDD	31.72	5.042e5	3.168e5	1.058	1.59	1.55	2271.5	YES	NO	bb	bb	50.366
5	Total-pentadoxins	31.04	9.220e2	6.993e2	1.058	1.32	1.55	3.2	YES	NO	bb	bb	0.099
6	123678-HxCDD	36.49	4.812e5	3.882e5	1.040	1.24	1.24	2462.1	YES	NO	dd	dd	51.319
7	123478-HxCDD	36.37	4.756e5	3.620e5	1.119	1.31	1.24	2492.6	YES	NO	bd	bd	49.254
8	Total-hexadoxins	37.24	5.655e2		1.047			5.4	YES		dd		0.097
9	123789-HxCDD	36.92	4.487e5	3.552e5	0.981	1.26	1.24	2204.4	YES	NO	bd	bd	52.080
10	Total-hexadoxins	36.77	1.664e2	1.636e2	1.047	1.02	1.24	2.5	NO	YES	db	db	0.020
11	1234678-HpCDD	41.26	3.631e5	3.463e5	1.132	1.05	1.05	2742.0	YES	NO	bd	bd	49.079
12	Total-heptadoxins	40.00	2.930e3	2.740e3	1.132	1.07	1.05	26.1	YES	NO	bb	bb	0.392
13	OCDD	47.13	4.869e5	5.373e5	1.117	0.91	0.89	2255.4	YES	NO	bd	bb	96.557

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.00	1.400e5	1.858e5	1.018	0.75	0.77	1572.5	YES	NO	bd	bd	9.843
2	Total-tetrafurans	25.79	2.340e2	3.894e2	1.018	0.60	0.77	3.5	YES	YES	bb	bb	0.019
3	Total-tetrafurans	25.08	1.761e3	2.164e3	1.018	0.81	0.77	21.1	YES	NO	db	bb	0.119
4	Total-tetrafurans	24.91	1.526e3	1.235e3	1.018	1.24	0.77	15.6	YES	YES	dd	db	0.083
5	Total-tetrafurans	24.76	1.213e3	1.923e3	1.018	0.63	0.77	14.4	YES	YES	bd	bd	0.095
6	23478-PeCDF	31.47	8.727e5	5.543e5	1.019	1.57	1.55	3509.8	YES	NO	bd	bb	48.465
7	Total-pentafurans	31.20	1.118e3	8.424e2	0.998	1.33	1.55	4.5	YES	NO	bb	bb	0.068
8	Total-pentafurans	30.33	2.993e4	1.885e4	0.998	1.59	1.55	95.4	YES	NO	db	dd	1.682
9	12378-PeCDF	30.14	8.807e5	5.746e5	0.977	1.53	1.55	3384.4	YES	NO	bd	bd	50.964
10	Total-pentafurans	29.77	3.899e3	3.675e3	0.998	1.06	1.55	16.6	YES	YES	bd	bb	0.261
11	Total-pentafurans	29.06	9.876e3	8.034e3	0.998	1.23	1.55	38.2	YES	YES	db	bb	0.617
12	Total-hexafurans	33.42	2.386e3	2.302e3	1.138	1.04	1.24	10.3	YES	YES	bb	bb	0.202
13	Total-pentafurans	32.51	5.693e3	3.425e3	0.998	1.66	1.55	19.4	YES	NO	bb	bb	0.314
14	123789-HxCDF	37.38	5.093e5	4.036e5	1.116	1.26	1.24	2109.9	YES	NO	bd	bd	52.551
15	234678-HxCDF	36.24	6.888e5	5.657e5	1.188	1.22	1.24	2890.1	YES	NO	bd	bb	51.709
16	123678-HxCDF	35.29	7.443e5	6.147e5	1.100	1.21	1.24	3142.1	YES	NO	db	db	50.555
17	123478-HxCDF	35.14	6.822e5	5.681e5	1.150	1.20	1.24	2975.9	YES	NO	bd	bd	51.087
18	Total-hexafurans	34.98	1.043e3	8.274e2	1.138	1.26	1.24	5.7	YES	NO	bb	bb	0.080
19	Total-hexafurans	33.63	9.148e3	7.565e3	1.138	1.21	1.24	37.8	YES	NO	bb	bb	0.719
20	1234789-HpCDF	42.15	3.912e5	3.845e5	1.257	1.02	1.05	1698.0	YES	NO	bd	bb	51.533
21	Total-heptafurans	40.26	4.396e3	4.006e3	1.248	1.10	1.05	19.5	YES	NO	bb	bb	0.478
22	1234678-HpCDF	39.44	5.406e5	5.507e5	1.238	0.98	1.05	2788.3	YES	NO	bb	bd	54.484
23	OCDF	47.41	5.592e5	6.297e5	1.321	0.89	0.89	2923.3	YES	NO	bb	bd	94.770
24	Total-Dioxins	27.86	9.742e1	9.189e1	1.099	1.06	0.77	1.3	NO	YES	bb	bb	0.010
25	2378-TCDD	26.63	9.139e4	1.167e5	1.244	0.78	0.77	715.6	YES	NO	bb	bb	9.872
26	Total-tetradoxins	26.26	2.633e3	2.966e3	1.244	0.89	0.77	20.4	YES	YES	bb	bb	0.266
27	12378-PeCDD	31.72	5.042e5	3.168e5	1.058	1.59	1.55	2271.5	YES	NO	bb	bb	50.366
28	Total-pentadoxins	31.04	9.220e2	6.993e2	1.058	1.32	1.55	3.2	YES	NO	bb	bb	0.099
29	123678-HxCDD	36.49	4.812e5	3.882e5	1.040	1.24	1.24	2462.1	YES	NO	dd	dd	51.319
30	123478-HxCDD	36.37	4.756e5	3.620e5	1.119	1.31	1.24	2492.6	YES	NO	bd	bd	49.254
31	Total-hexadoxins	37.24	5.655e2		1.047			5.4	YES		dd		0.097
32	123789-HxCDD	36.92	4.487e5	3.552e5	0.981	1.26	1.24	2204.4	YES	NO	bd	bd	52.080
33	Total-hexadoxins	36.77	1.664e2	1.636e2	1.047	1.02	1.24	2.5	NO	YES	db	db	0.020
34	1234678-HpCDD	41.26	3.631e5	3.463e5	1.132	1.05	1.05	2742.0	YES	NO	bd	bd	49.079
35	Total-heptadoxins	40.00	2.930e3	2.740e3	1.132	1.07	1.05	26.1	YES	NO	bb	bb	0.392
36	OCDD	47.13	4.869e5	5.373e5	1.117	0.91	0.89	2255.4	YES	NO	bd	bb	96.557

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.83	2.963e5					1.8	NO		bb		
2	FUNCTION1 PFK	25.53	3.740e4					1.1	NO		bb		
3	FUNCTION1 PFK	25.09	4.888e4					1.2	NO		bb		
4	FUNCTION1 PFK	21.10	2.350e5					4.0	YES		bb		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.05	1.369e4					2.6	NO		bb		0.000
2	FUNCTION2 PFK	31.24	2.950e4					3.7	YES		bb		0.000
3	FUNCTION2 PFK	31.02	1.515e4					3.4	YES		bb		0.000
4	FUNCTION2 PFK	29.37	8.598e3					2.3	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	38.39	5.317e5					13.1	YES		db		0.000
2	FUNCTION3 PFK	38.21	2.661e6					19.1	YES		dd		0.000
3	FUNCTION3 PFK	38.02	9.066e5					17.7	YES		bd		0.000
4	FUNCTION3 PFK	33.23	6.147e5					2.3	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.70	8.714e4					2.1	NO		bb		
2	FUNCTION4 PFK	40.56	1.699e4					1.6	NO		bb		
3	FUNCTION4 PFK	39.77	4.758e5					12.9	YES		db		
4	FUNCTION4 PFK	39.65	1.008e6					15.9	YES		bd		
5	FUNCTION4 PFK	39.43	4.675e5					10.4	YES		bb		
6	FUNCTION4 PFK	39.08	3.398e5					8.5	YES		db		
7	FUNCTION4 PFK	38.99	1.500e5					7.0	YES		bd		
8	FUNCTION4 PFK	38.87	2.886e5					11.4	YES		db		
9	FUNCTION4 PFK	38.83	3.366e5					12.4	YES		bd		
10	FUNCTION4 PFK	38.67	5.301e5					11.2	YES		bb		
11	FUNCTION4 PFK	44.23	4.937e4					2.8	NO		db		
12	FUNCTION4 PFK	44.19	4.644e4					2.6	NO		bd		
13	FUNCTION4 PFK	43.87	2.179e5					5.7	YES		bb		
14	FUNCTION4 PFK	43.58	2.361e5					6.0	YES		db		
15	FUNCTION4 PFK	43.41	3.635e5					7.3	YES		bd		

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	47.32	4.927e3					0.9	NO		bb		
2	FUNCTION5 PFK	47.05	8.615e3					1.5	NO		bb		
3	FUNCTION5 PFK	46.97	7.024e3					1.0	NO		bb		
4	FUNCTION5 PFK	46.92	8.058e3					1.3	NO		bb		
5	FUNCTION5 PFK	46.85	1.948e4					1.7	NO		bb		
6	FUNCTION5 PFK	46.80	4.706e3					0.9	NO		bb		
7	FUNCTION5 PFK	46.24	3.291e3					0.7	NO		bb		
8	FUNCTION5 PFK	45.86	9.900e3					1.0	NO		bb		
9	FUNCTION5 PFK	44.71	5.026e3					0.8	NO		bb		
10	FUNCTION5 PFK	44.67	1.107e4					1.2	NO		bb		
11	FUNCTION5 PFK	49.43	1.645e3					0.6	NO		bb		
12	FUNCTION5 PFK	48.91	1.015e4					1.8	NO		bb		
13	FUNCTION5 PFK	48.39	2.771e3					0.7	NO		bb		
14	FUNCTION5 PFK	48.28	2.262e3					0.6	NO		bb		
15	FUNCTION5 PFK	48.08	8.929e3					1.5	NO		bb		
16	FUNCTION5 PFK	47.97	5.262e3					1.0	NO		bb		
17	FUNCTION5 PFK	47.68	1.662e4					1.5	NO		db		
18	FUNCTION5 PFK	47.63	7.271e3					1.1	NO		bd		
19	FUNCTION5 PFK	47.45	5.161e3					0.8	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.14	1.321e2					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	25.30	1.555e2					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	22.46	9.647e1					3.1	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.84	7.764e1					2.0	NO		bb		0.000
2	FUNCTION1 HPCD...	22.33	3.478e2					3.1	YES		bb		0.000
3	FUNCTION1 HPCD...	25.84	1.881e2					3.7	YES		bb		0.000
4	FUNCTION1 HPCD...	24.66	1.496e2					2.5	NO		bb		0.000
5	FUNCTION1 HPCD...	24.29	1.203e2					2.0	NO		bb		0.000
6	FUNCTION1 HPCD...	23.67	1.625e2					3.3	YES		bb		0.000

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.89	8.784e1					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	31.40	2.401e2					2.9	NO		bb		0.000
3	FUNCTION2 HPCD...	30.27	9.748e1					3.1	YES		bb		0.000
4	FUNCTION2 HPCD...	29.75	1.008e2					4.8	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.91	1.023e2					2.6	NO		bb		0.000

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.91	8.059e1					4.3	YES		bb		0.000
2	FUNCTION4 NCDPE	39.23	8.882e1					4.1	YES		bb		0.000

ETHERS6

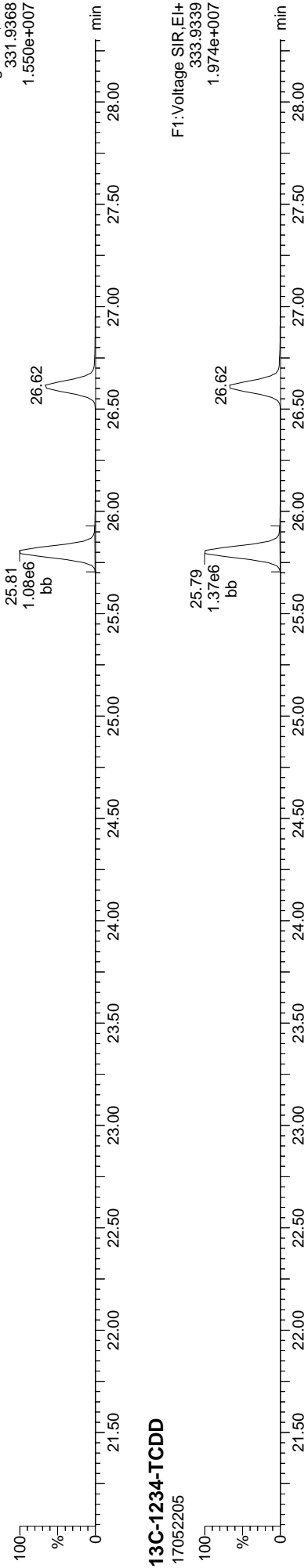
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.88	1.096e2					2.5	NO		bb		0.000

Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

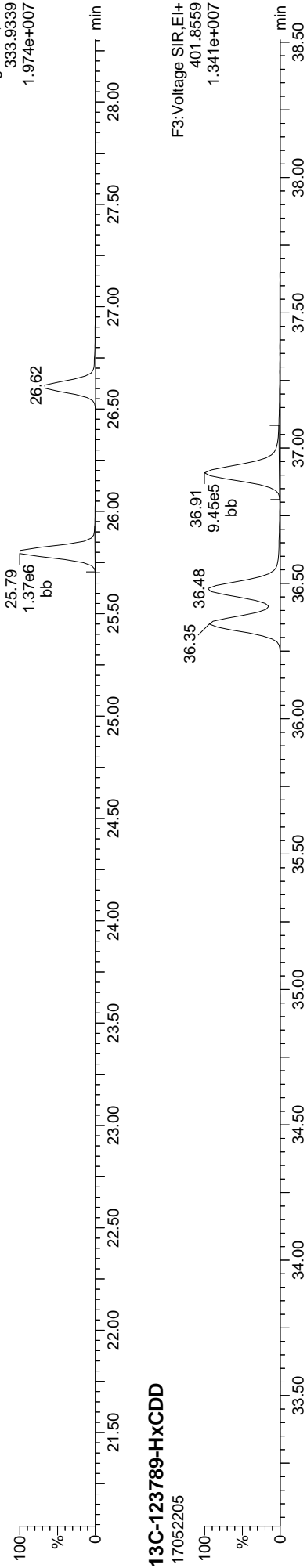
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

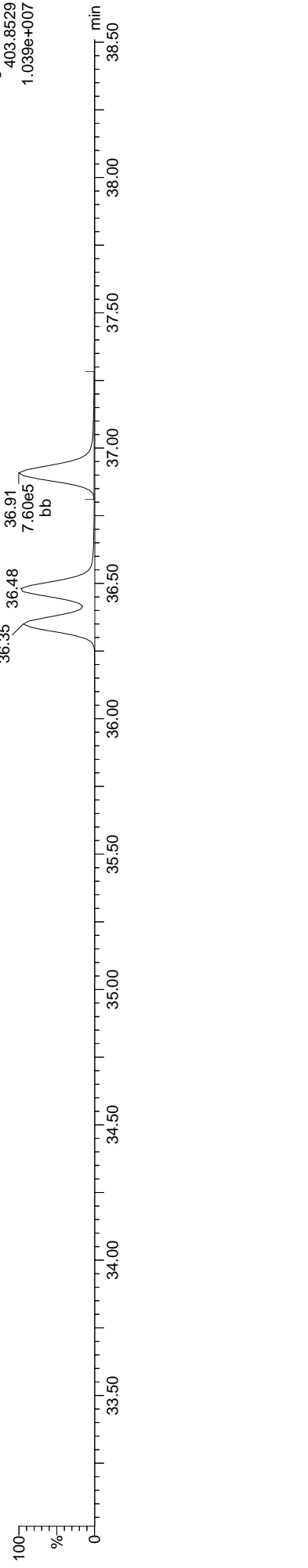
13C-1234-TCDD
17052205



13C-123789-HxCDD
17052205



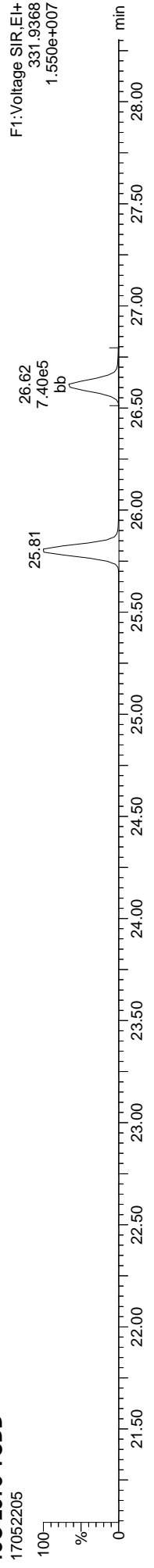
13C-123789-HxCDD
17052205



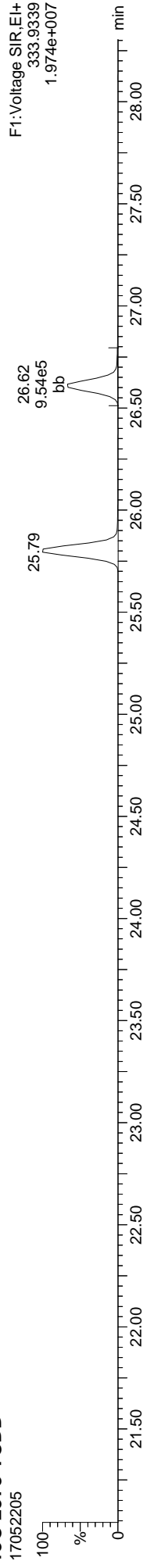
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

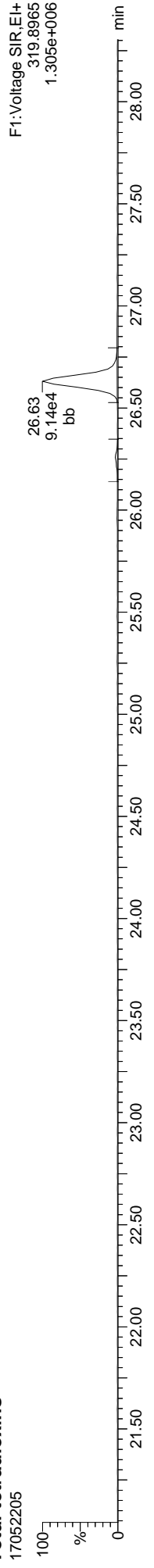
13C-2378-TCDD



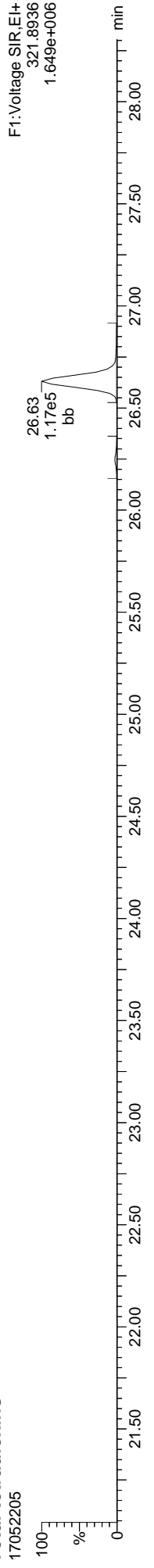
13C-2378-TCDD



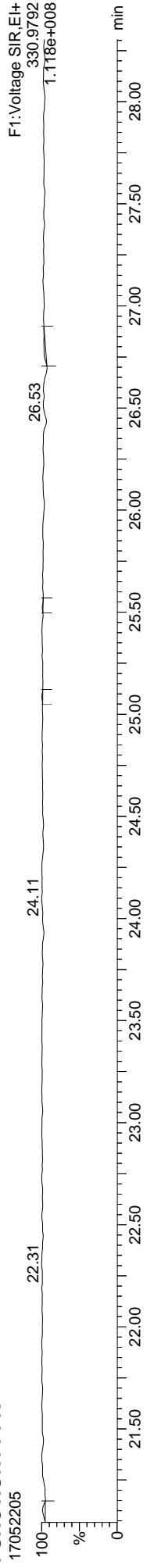
Total-tetradioxins



Total-tetradioxins



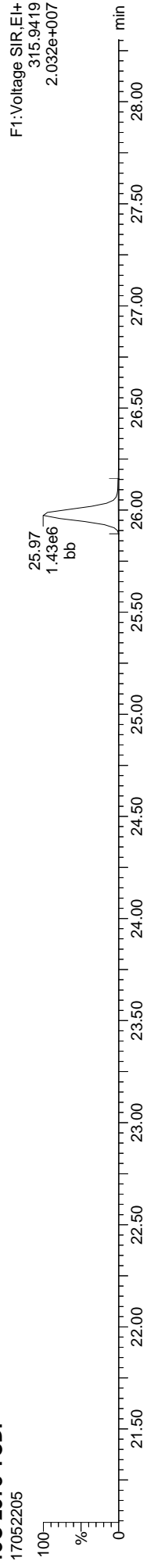
FUNCTION1 PFK



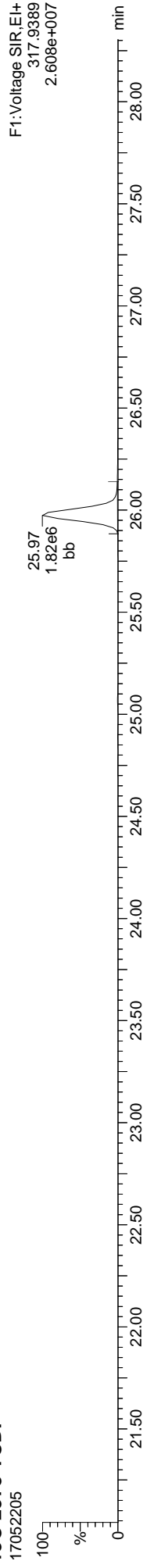
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

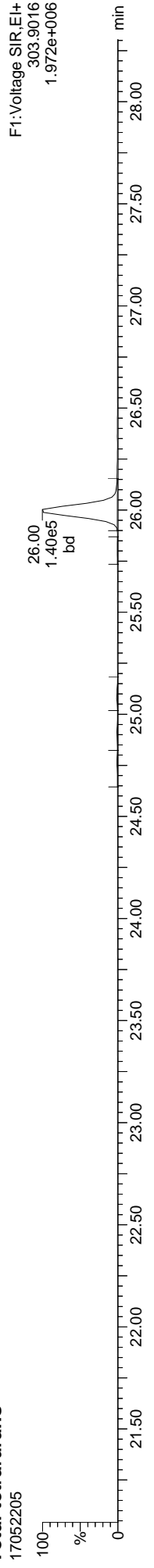
13C-2378-TCDF



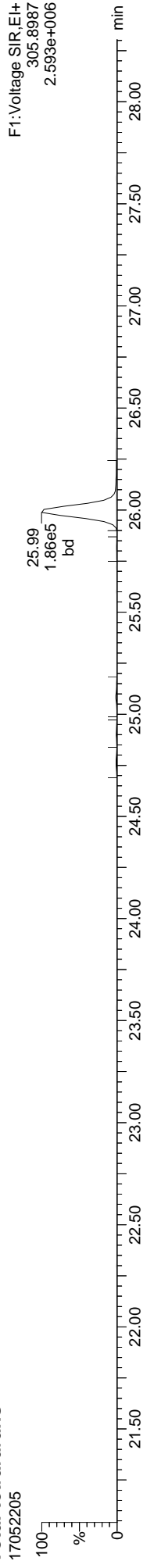
13C-2378-TCDF



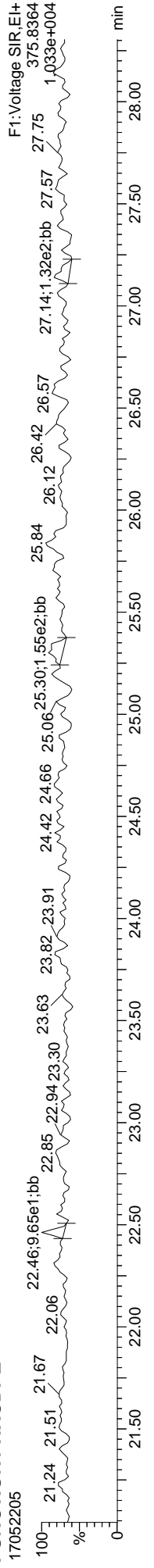
Total-tetrafurans



Total-tetrafurans



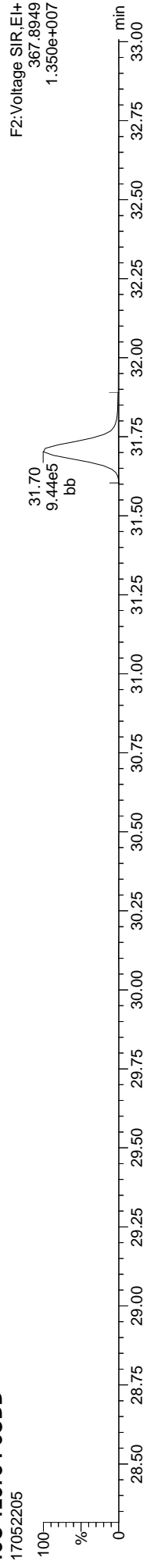
FUNCTION1 HXCDFE



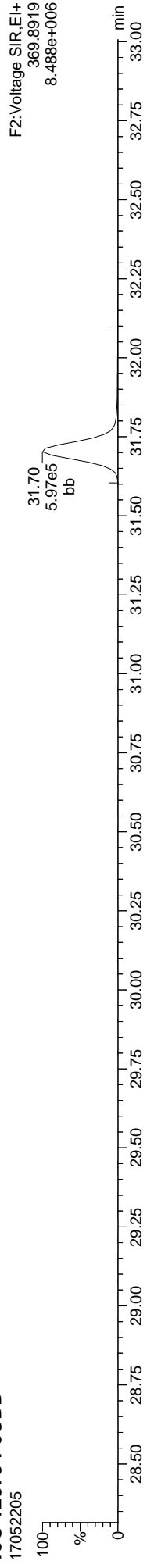
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

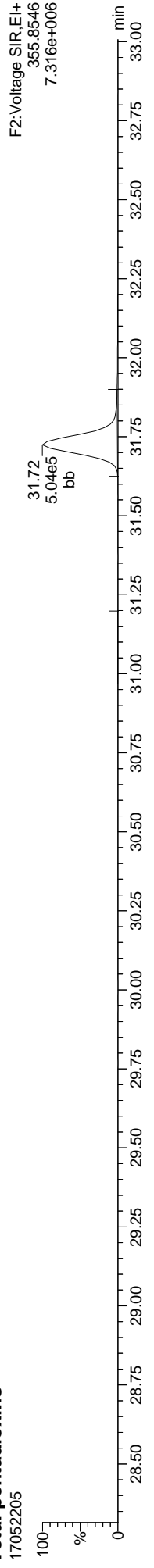
13C-12378-PeCDD



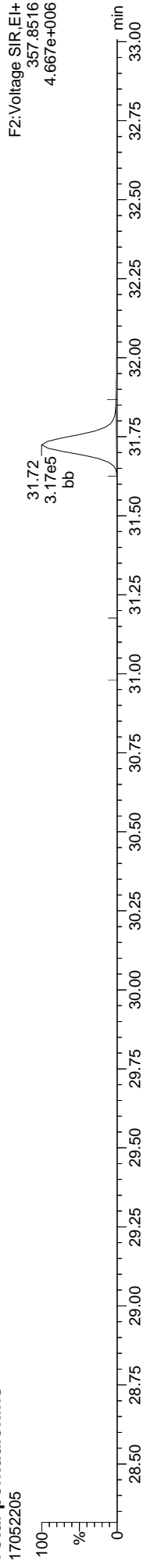
13C-12378-PeCDD



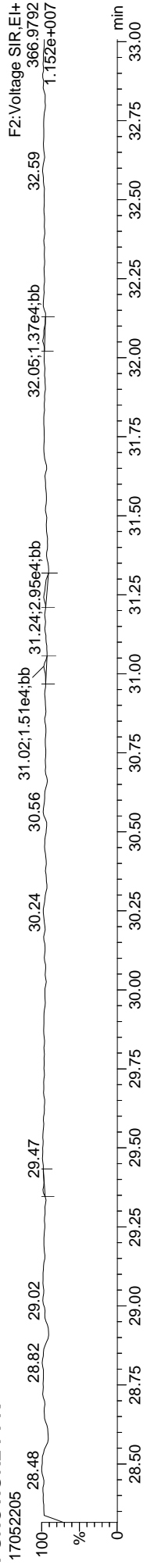
Total-pentadioxins



Total-pentadioxins



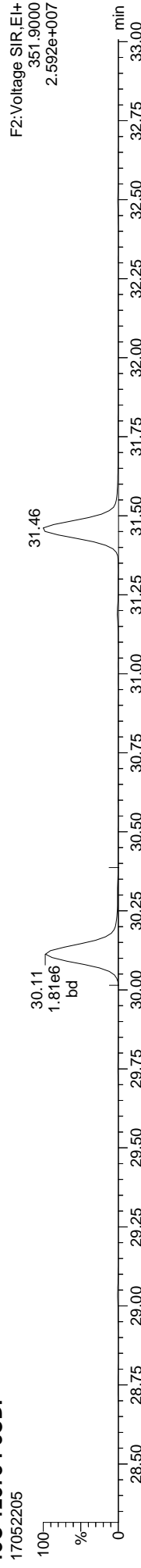
FUNCTION2 PFK



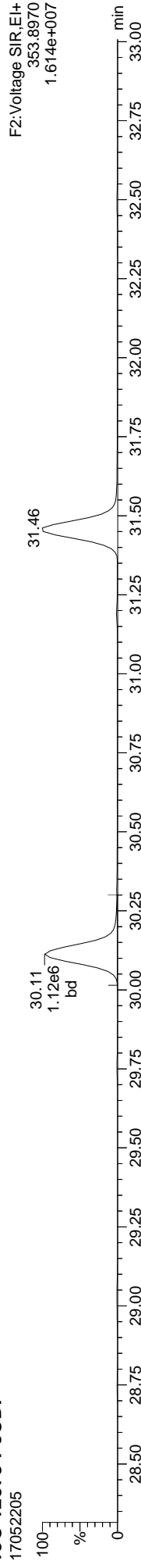
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

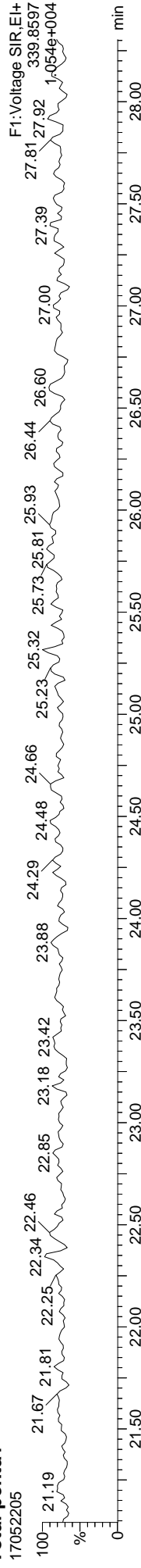
13C-12378-PeCDF



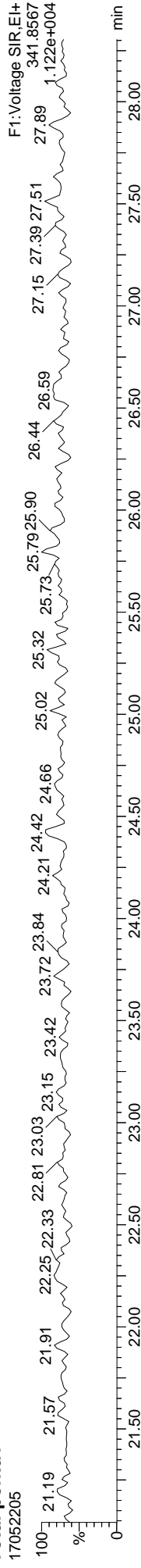
13C-12378-PeCDF



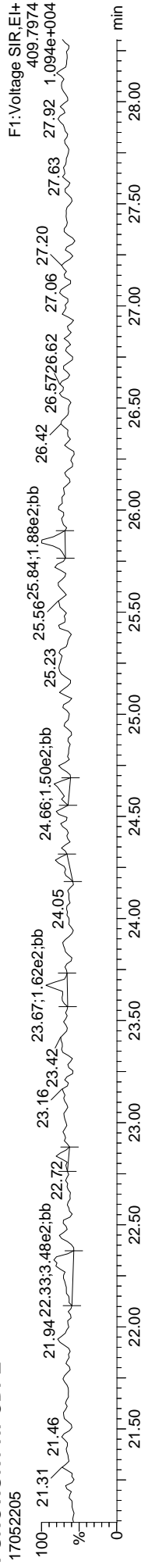
Total-penta1



Total-penta1



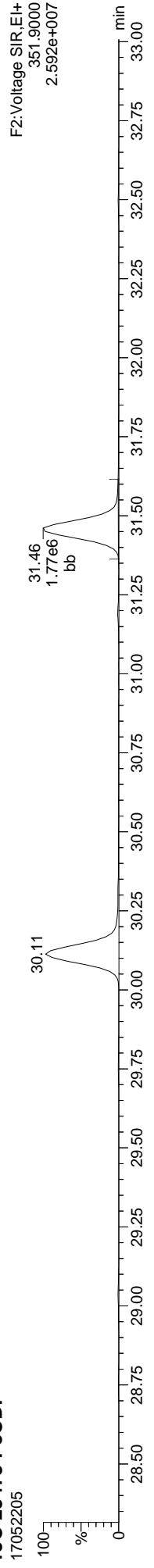
FUNCTION1 HPCDPE



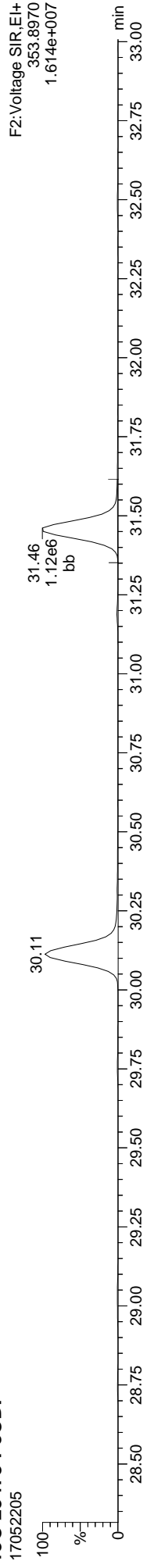
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

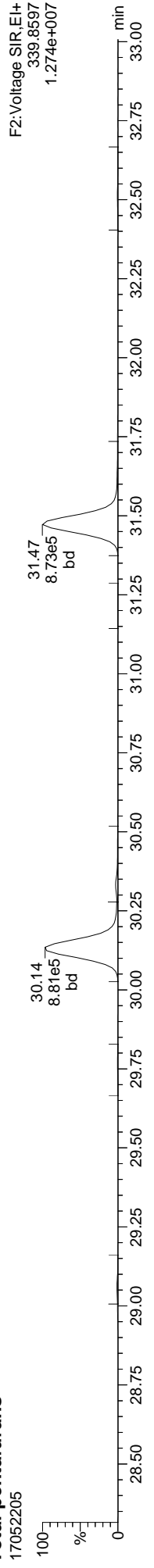
13C-23478-PeCDF



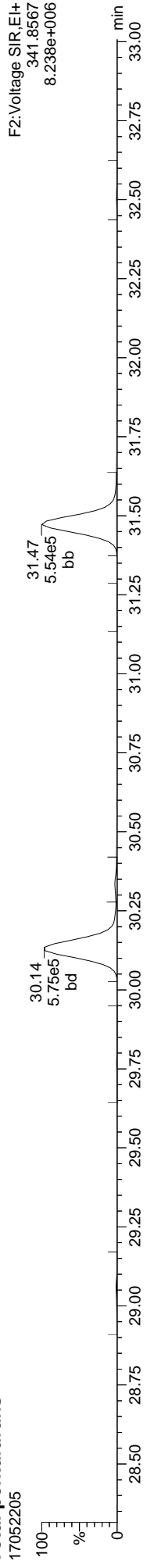
13C-23478-PeCDF



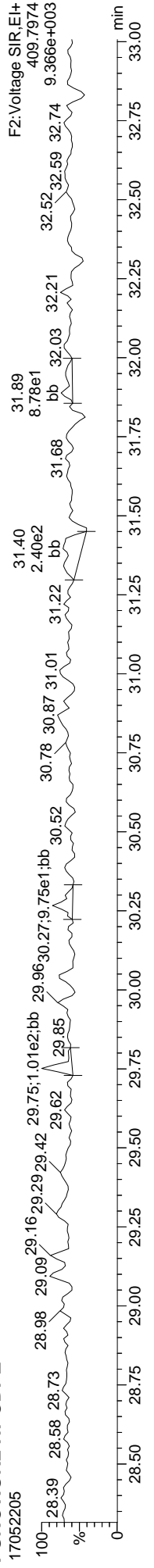
Total-pentafurans



Total-pentafurans



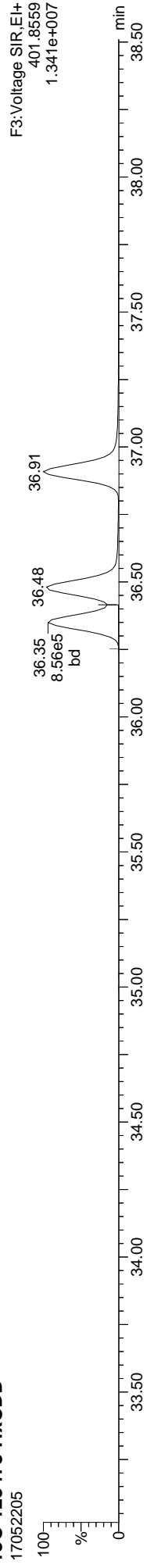
FUNCTION2 HPCDPE



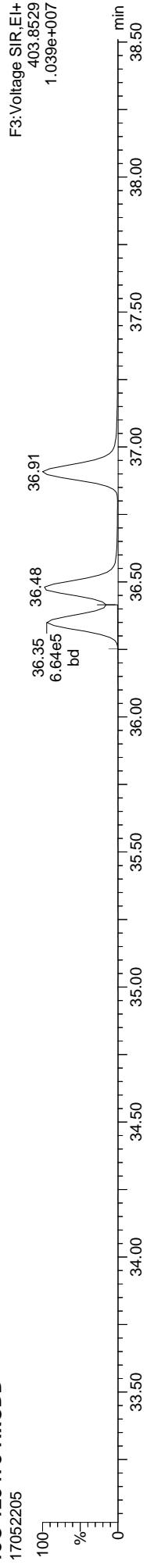
Quantify Sample Report
MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

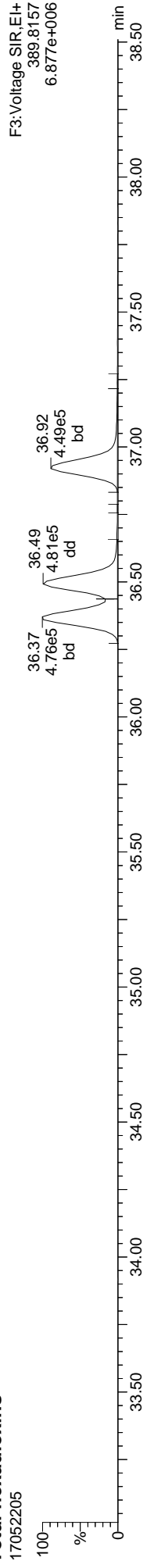
13C-123478-HxCDD



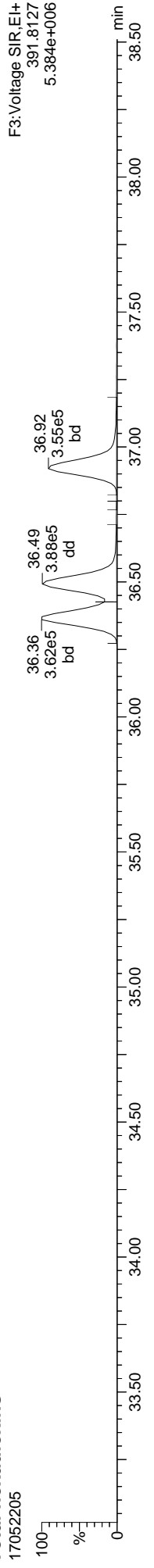
13C-123478-HxCDD



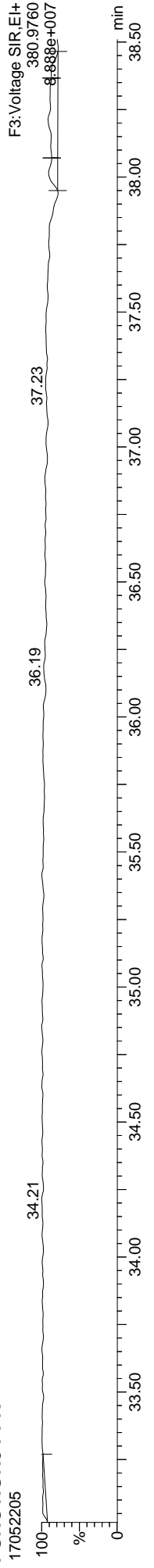
Total-hexadioxins



Total-hexadioxins



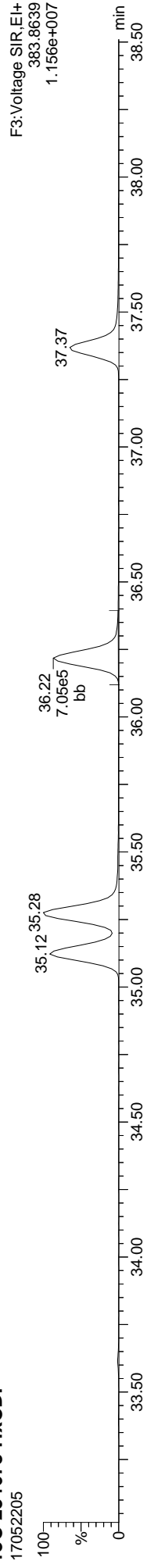
FUNCTION3 PFK



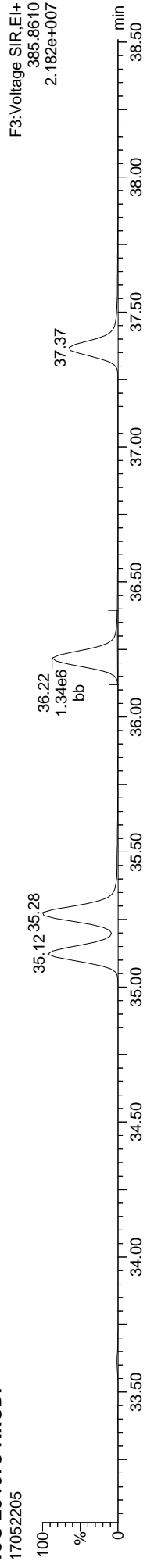
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

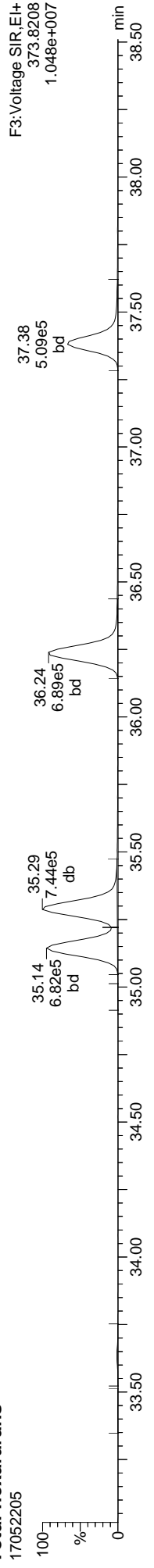
13C-234678-HxCDF



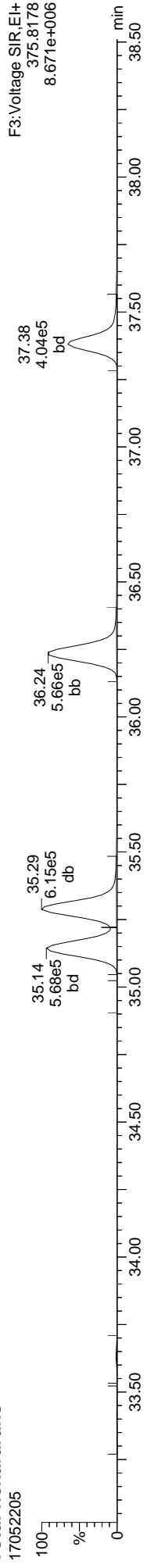
13C-234678-HxCDF



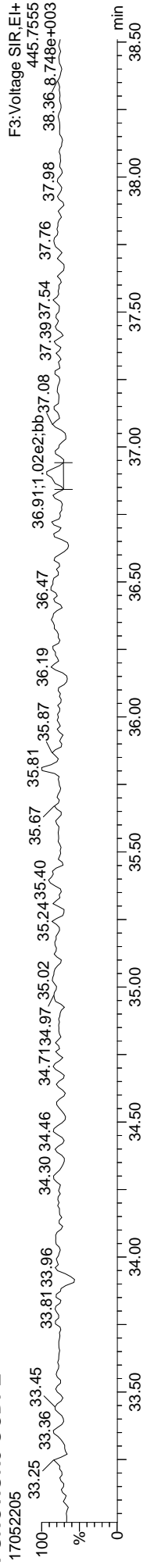
Total-hexafurans



Total-hexafurans



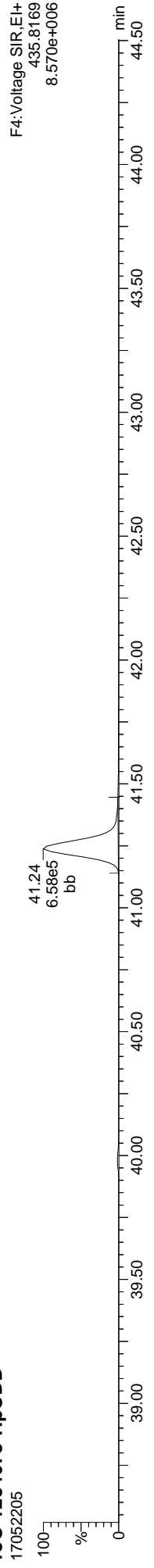
FUNCTION3 OCDPE



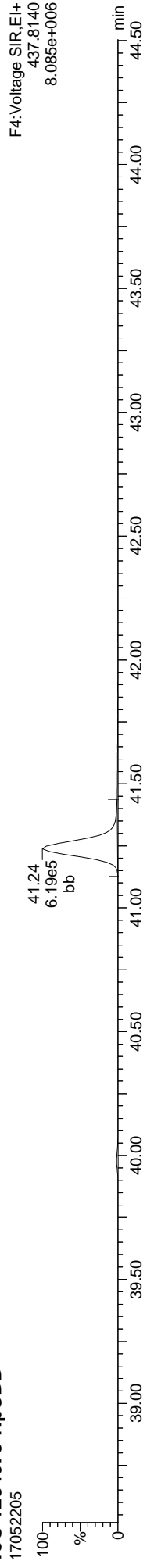
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

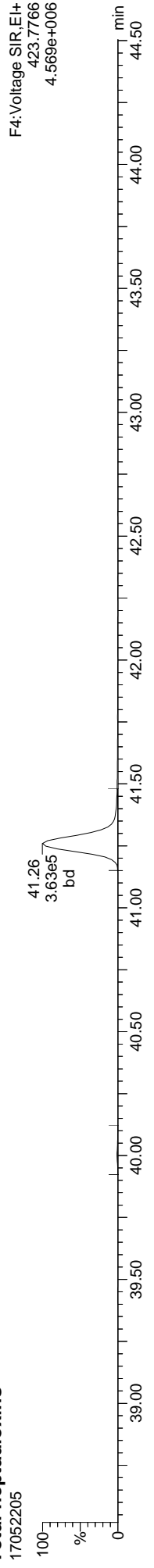
13C-1234678-HpCDD



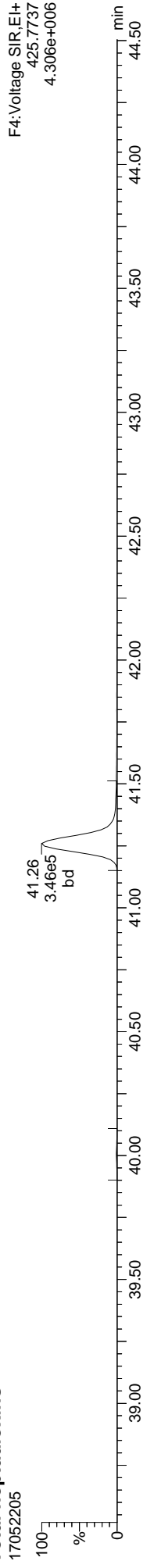
13C-1234678-HpCDD



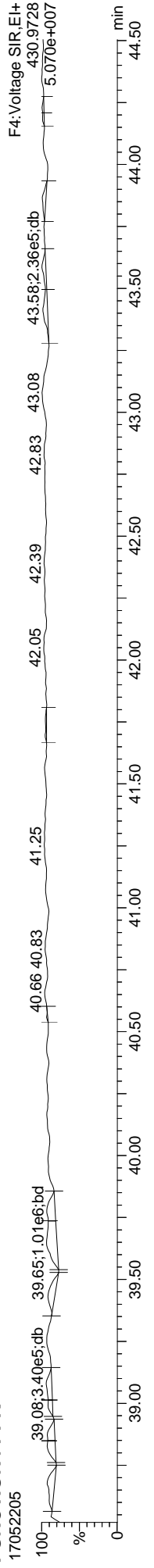
Total-heptadioxins



Total-heptadioxins



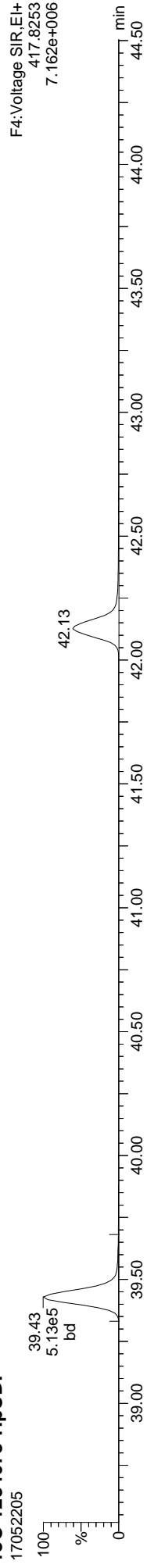
FUNCTION4 PFK



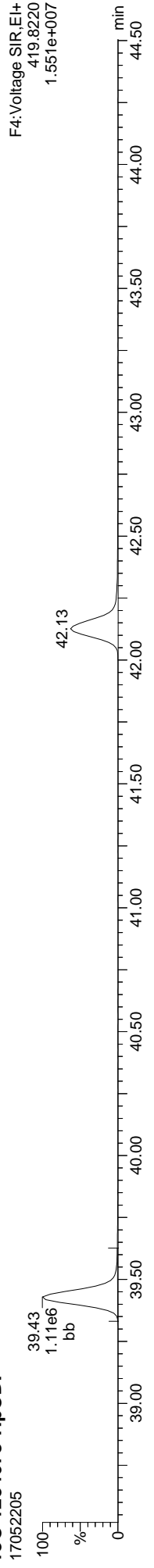
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

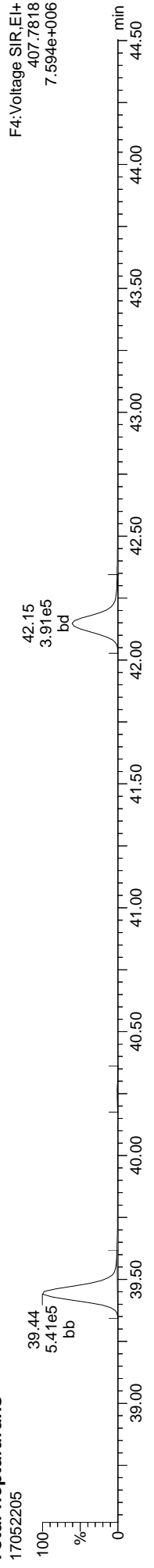
13C-1234678-HpCDF



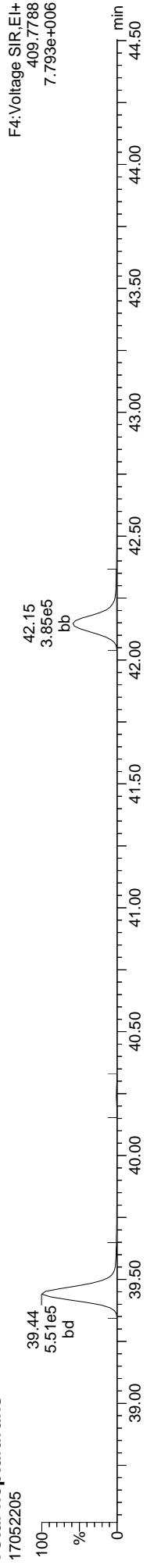
13C-1234678-HpCDF



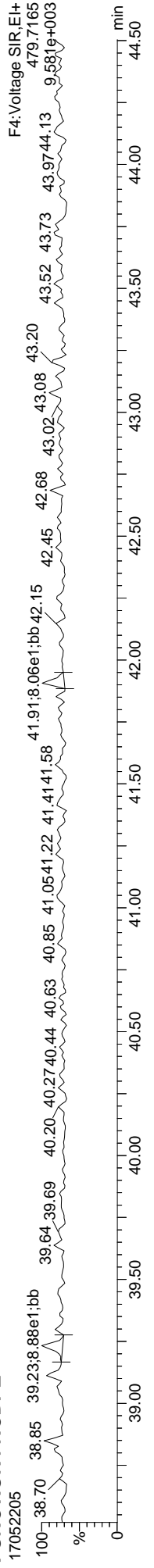
Total-heptafurans



Total-heptafurans



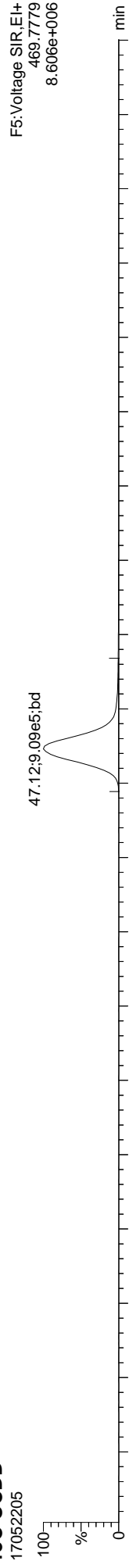
FUNCTION4 NCDPE



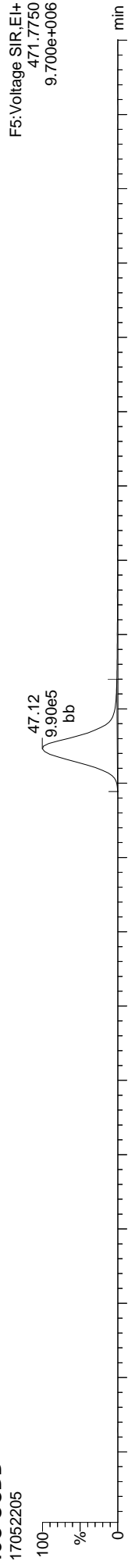
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

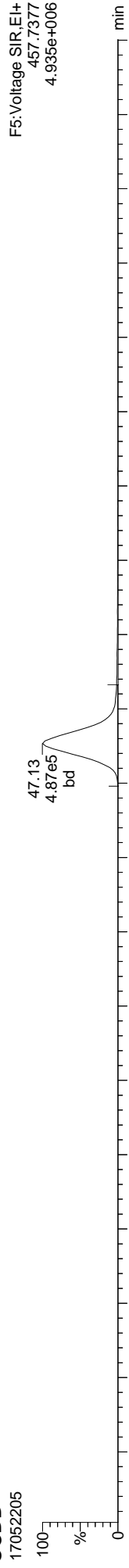
13C-OCDD



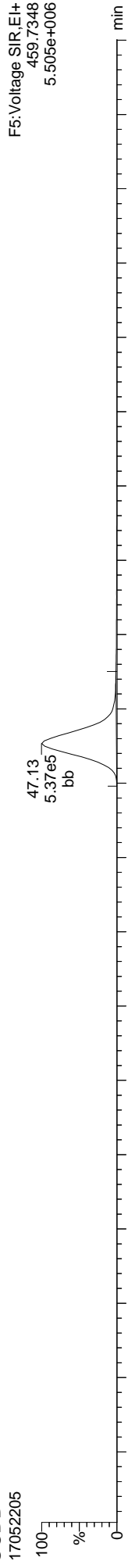
13C-OCDD



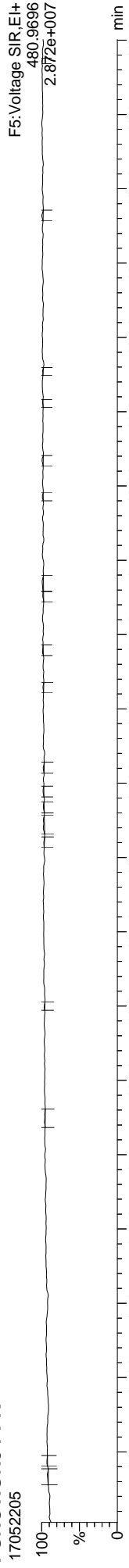
OCDD



OCDD



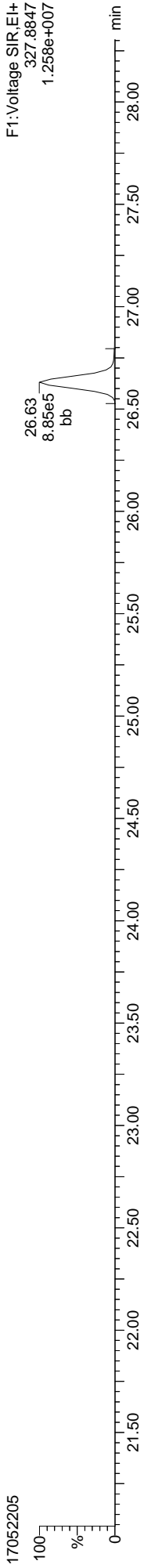
FUNCTION5 PFK



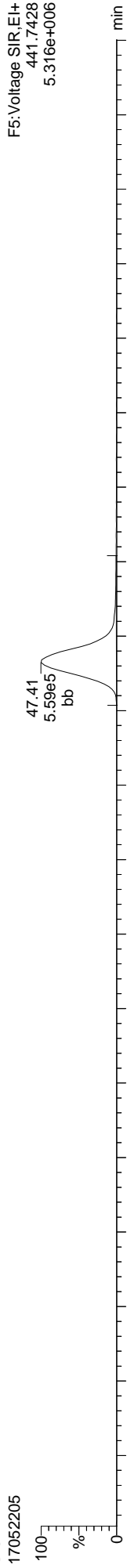
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 13:48:53 Pacific Daylight Time

ID: BFE0233-BS1, Name: 17052205, Date: 22-May-2017, Time: 12:57:17, Conditions: AUTOSPEC01, User: PK

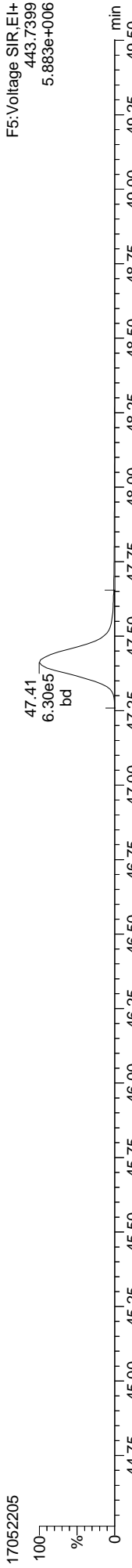
37CL-2378-TCDD



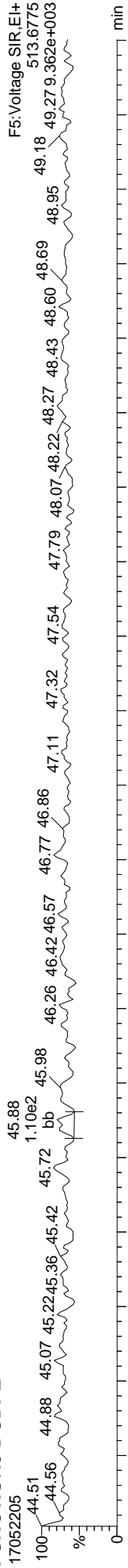
OCDF



OCDF



FUNCTION5 DCDPE





INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	17D0421
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	AE00055	Instrument:	AUTOSPEC01
Calibration Date:	05/18/2017 14:31	Column (1):	RTX-Dioxin2

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.7383514	4.0			RSD ()	
37C14-2,3,7,8-TCDD	1.021192	9.4			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	



6 pt Dioxin Curve 5/18/17

HR-GC/MS Analyst Notes / Data Review Checklist

ELEMENT/NWA: _____

Client ID: In-House

Element Calibration Code: AE00055

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

Instrument: AutoSpec01

Analysis Start Date: 5/18/17

Resolution Check > 10,000ppm Y / N / _____
REVIEW 1/REVIEW 2

Signal / Noise \geq 3.0? Y / N / _____
REVIEW 1/REVIEW 2

TCDD /TCDF Resolution \leq 25% Y / N / _____

Extraction STD Limits Met? Y / N / _____

PCDF Windows Verified Y / N / _____

Cleanup STD Limits Met? Y / N / _____

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

Method Blank in Control? Y / N / _____

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

OPR Recovery Limits Met? Y / N / _____

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

Values Exceeding Curve Range? Y / N / _____

Manual Integrations? Y / N / _____

Samples Diluted? Y / N / _____

VDP Completed? NA / Y / N / _____

Duplicate Sample RPD \leq 25%? NA / _____

EPA Case # NA / _____

Technical Review? _____ / _____

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

- All cpds 6 pts, except TCDD, TCDF, and OCDD
dropped from CSL.

6 pts: CSL - CSS
5 pts: CSI - CSS

- All avg, %RSD < 20%

- Man Int for PD and OF in CSL.

- Seq SFB0273

(Review 1)Analyst: Plyler Date: 5/19/17

(Review 2)Peer: _____ Date: _____

(Final Review)Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

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

Date: 5/18/17 Analysis: Dioxins Analyst: ph
 GC Program: 8290D Column No: E765 Column Type: MaxDioxin2
 Inj Vol: 1ul Instrument Tune (IPR): May 15 17 1-5 Detector Voltage: 350
 Resolution Check Files: 16:43, 02:34 Curve Date: 5/18/17

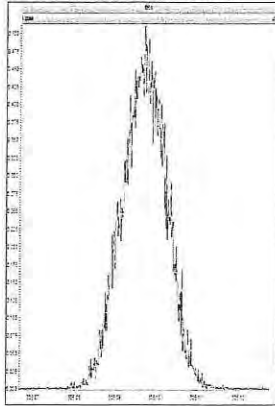
IS/SS	Ical/Ccal	LCS/ICV
	D621 D622	
	D620 E001	E002
	E3891 E4948	
	D623	

#	Acq.Date	Acq.Time	File	ID	Comments
1	18-May-17	16:44:51	17051802	CS3WD	
2	18-May-17	17:36:18	17051803	ISCI1	
3	18-May-17	18:29:32	17051804	IB	SFB0269 EPA
4	18-May-17	19:22:46	17051805	CSL	SFE0273 IH
5	18-May-17	20:16:01	17051806	CS1	
6	18-May-17	21:09:21	17051807	CS2	
7	18-May-17	22:02:34	17051808	CS3	
8	18-May-17	22:55:59	17051809	CS4	
9	18-May-17	23:49:31	17051810	CS5	
10	19-May-17	00:42:51	17051811	ICV	
11	19-May-17	01:36:06	17051812	ISCI2	

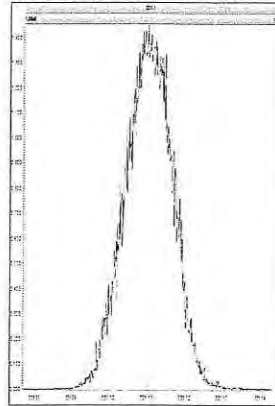
ph 5/19/17

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

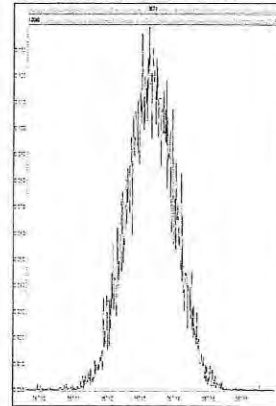
M 304.9824 R 12410



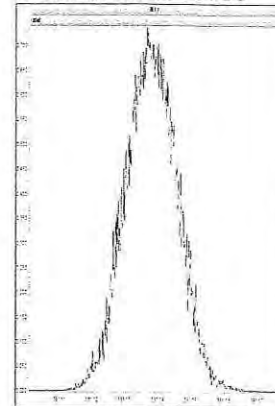
M 330.9792 R 11600



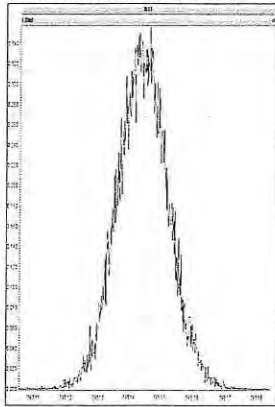
M 366.9792 R 11367



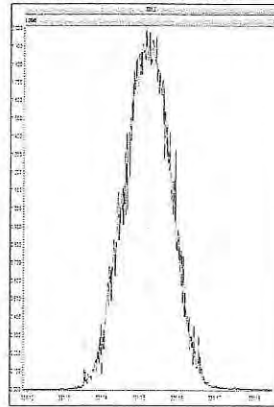
M 380.9760 R 10760



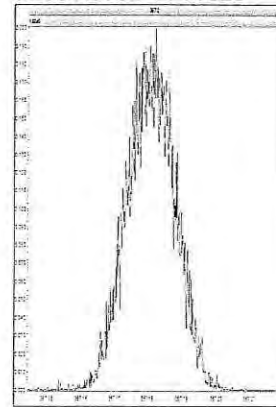
M 392.9760 R 10526



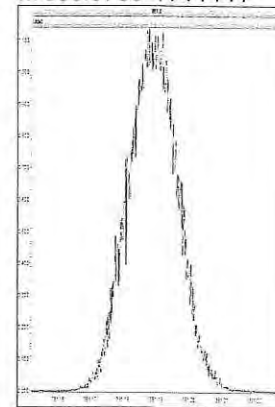
M 330.9792 R 12504



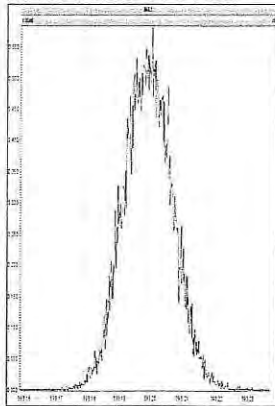
M 366.9792 R 11520



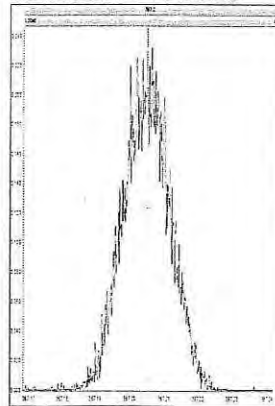
M 380.9760 R 11441



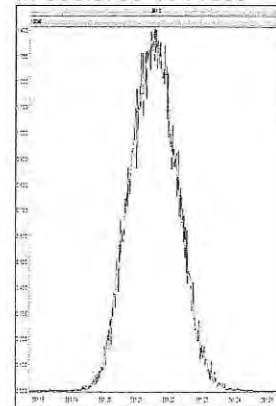
M 392.9760 R 11198



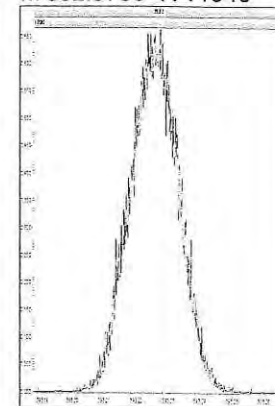
M 366.9792 R 12259



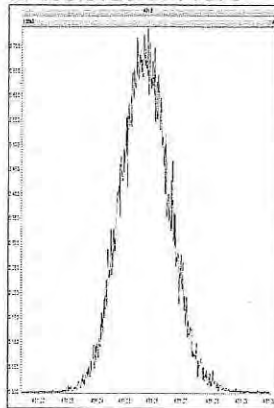
M 380.9760 R 11636



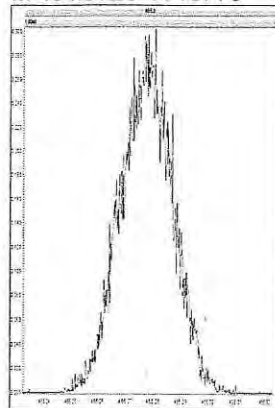
M 392.9760 R 11849



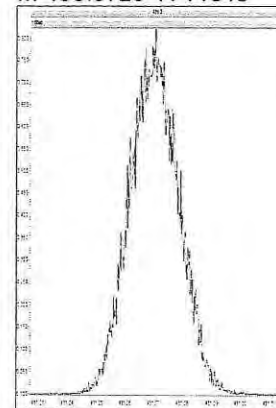
M 430.9728 R 11075



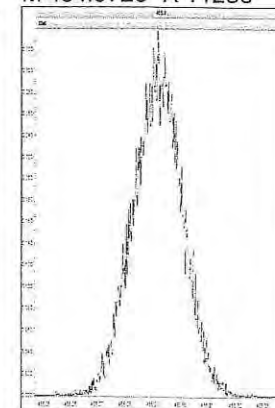
M 454.9728 R 10778



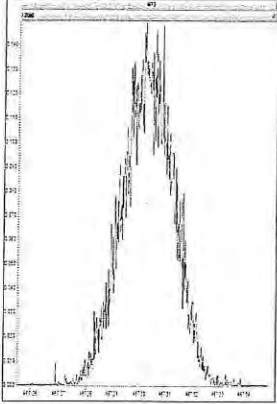
M 430.9728 R 11313



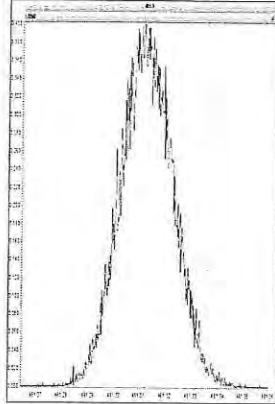
M 454.9728 R 11235



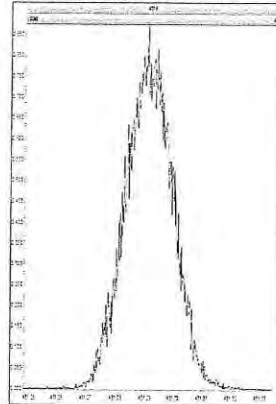
M 466.9728 R 10965



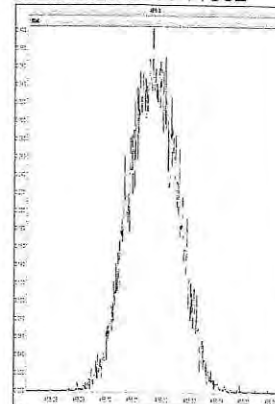
M 480.9696 R 10464



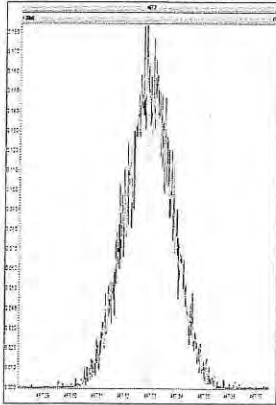
M 430.9728 R 11497



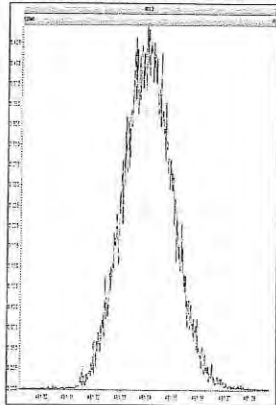
M 454.9728 R 11852



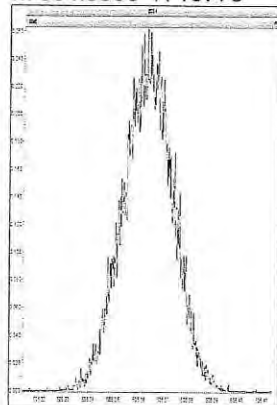
M 466.9728 R 11547



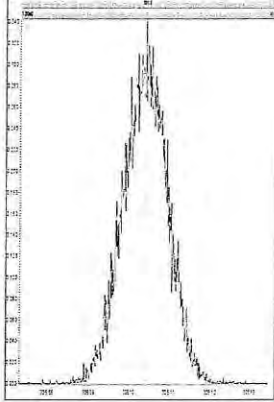
M 480.9696 R 11142



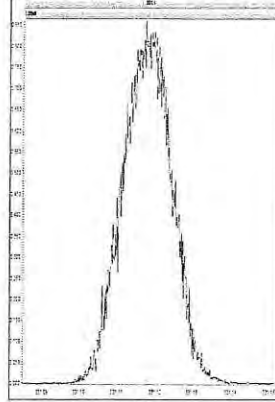
M 504.9696 R 10775



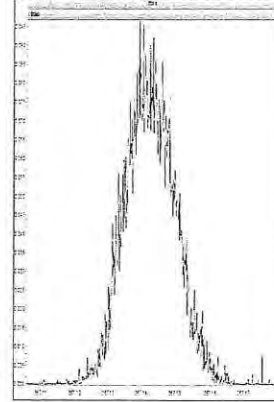
M 304.9824 R 11765



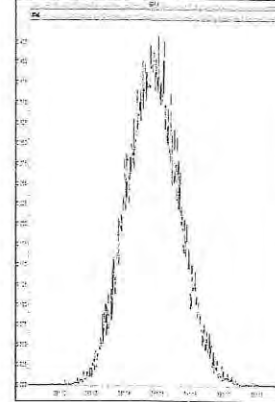
M 330.9792 R 11820



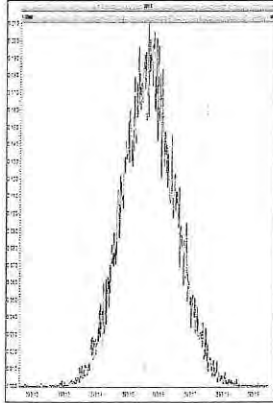
M 366.9792 R 11087



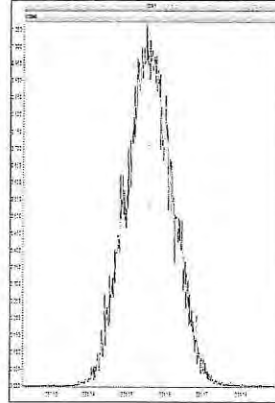
M 380.9760 R 10396



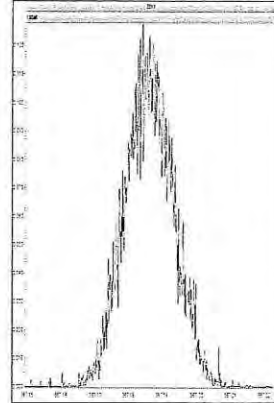
M 392.9760 R 10290



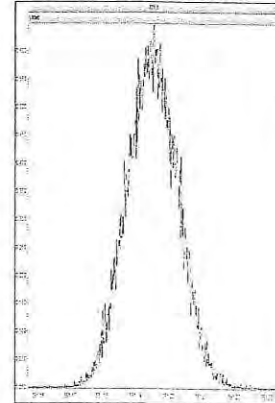
M 330.9792 R 12533



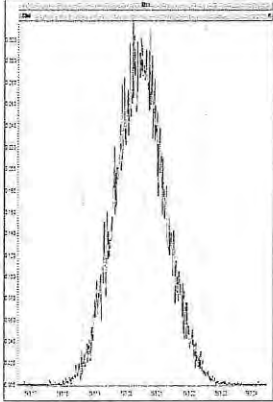
M 366.9792 R 12077



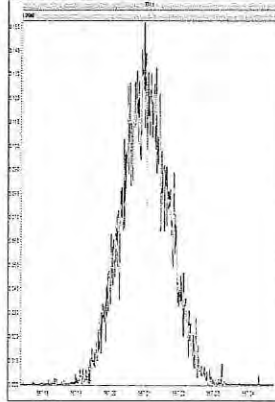
M 380.9760 R 10753



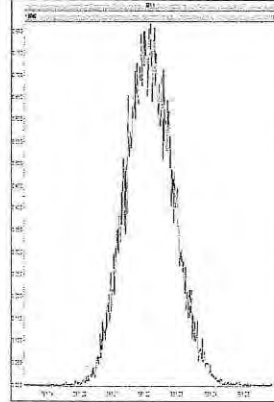
M 392.9760 R 11030



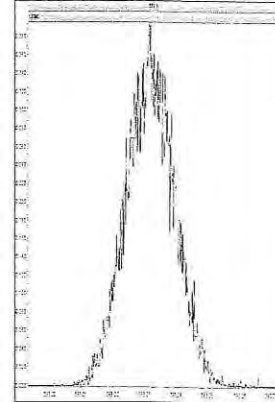
M 366.9792 R 12170



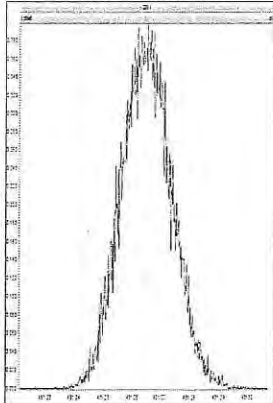
M 380.9760 R 11371



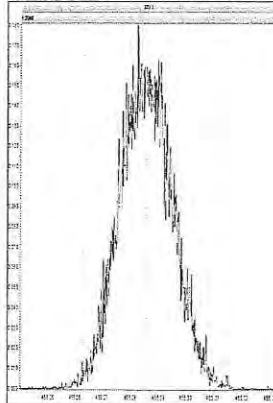
M 392.9760 R 11529



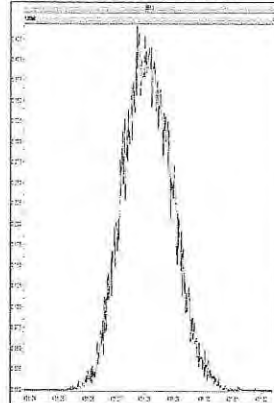
M 430.9728 R 10822



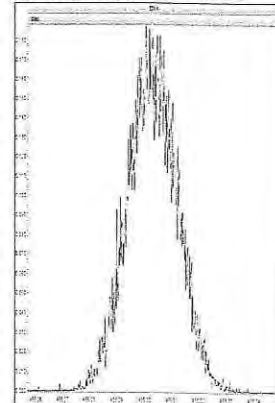
M 454.9728 R 10729



M 430.9728 R 11264

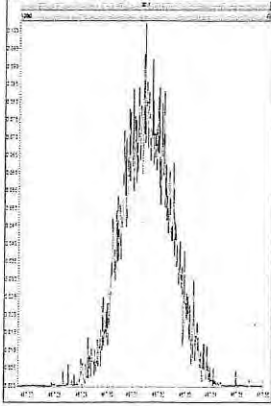


M 454.9728 R 11263

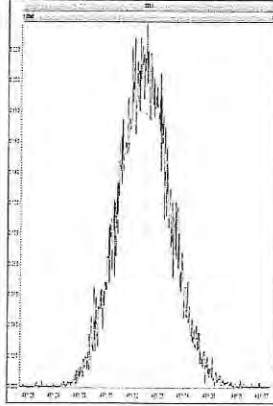


Printed: Friday, May 19, 2017 02:34:11 Pacific Daylight Time

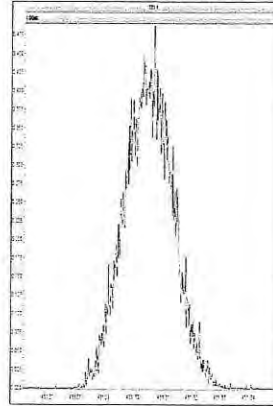
M 466.9728 R 12026



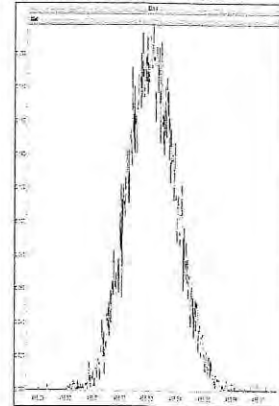
M 480.9696 R 10246



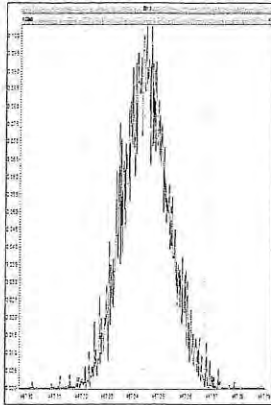
M 430.9728 R 11577



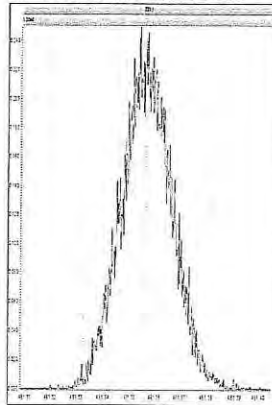
M 454.9728 R 11891



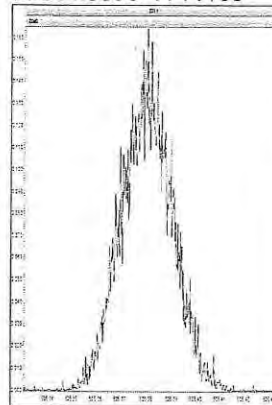
M 466.9728 R 11775



M 480.9696 R 11140

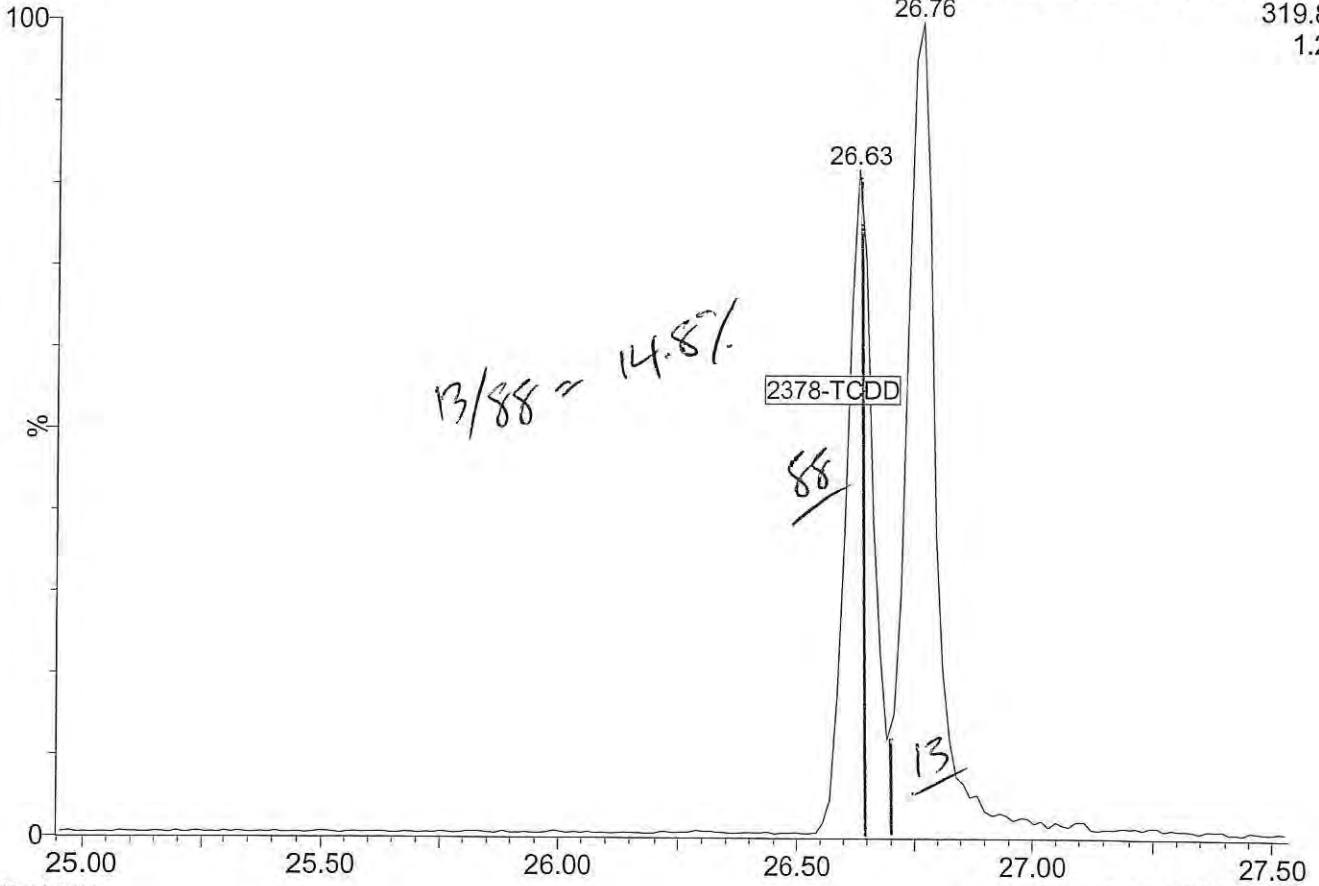


M 504.9696 R 11166



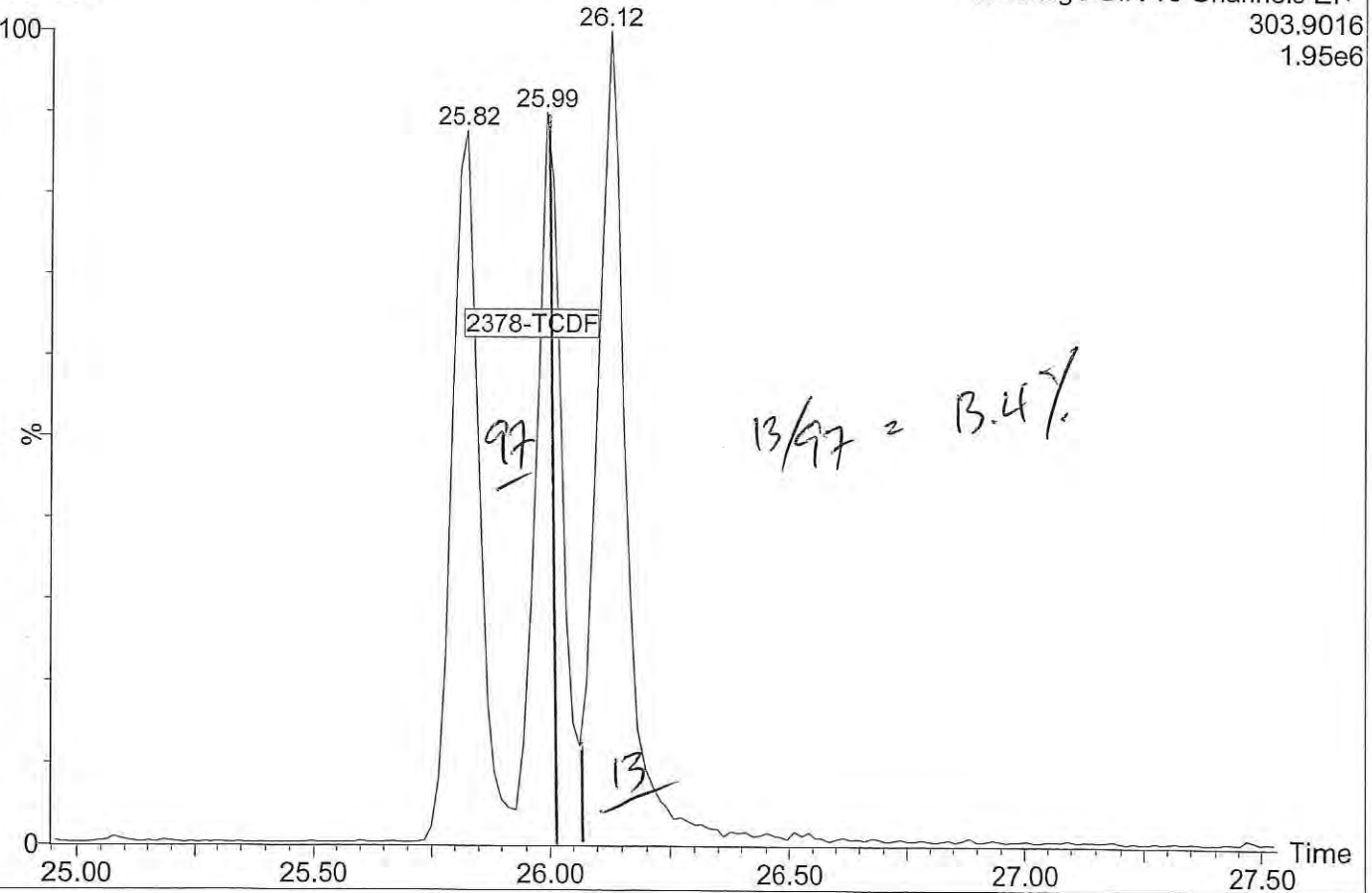
17051803

1: Voltage SIR 15 Channels EI+
319.8965
1.29e6



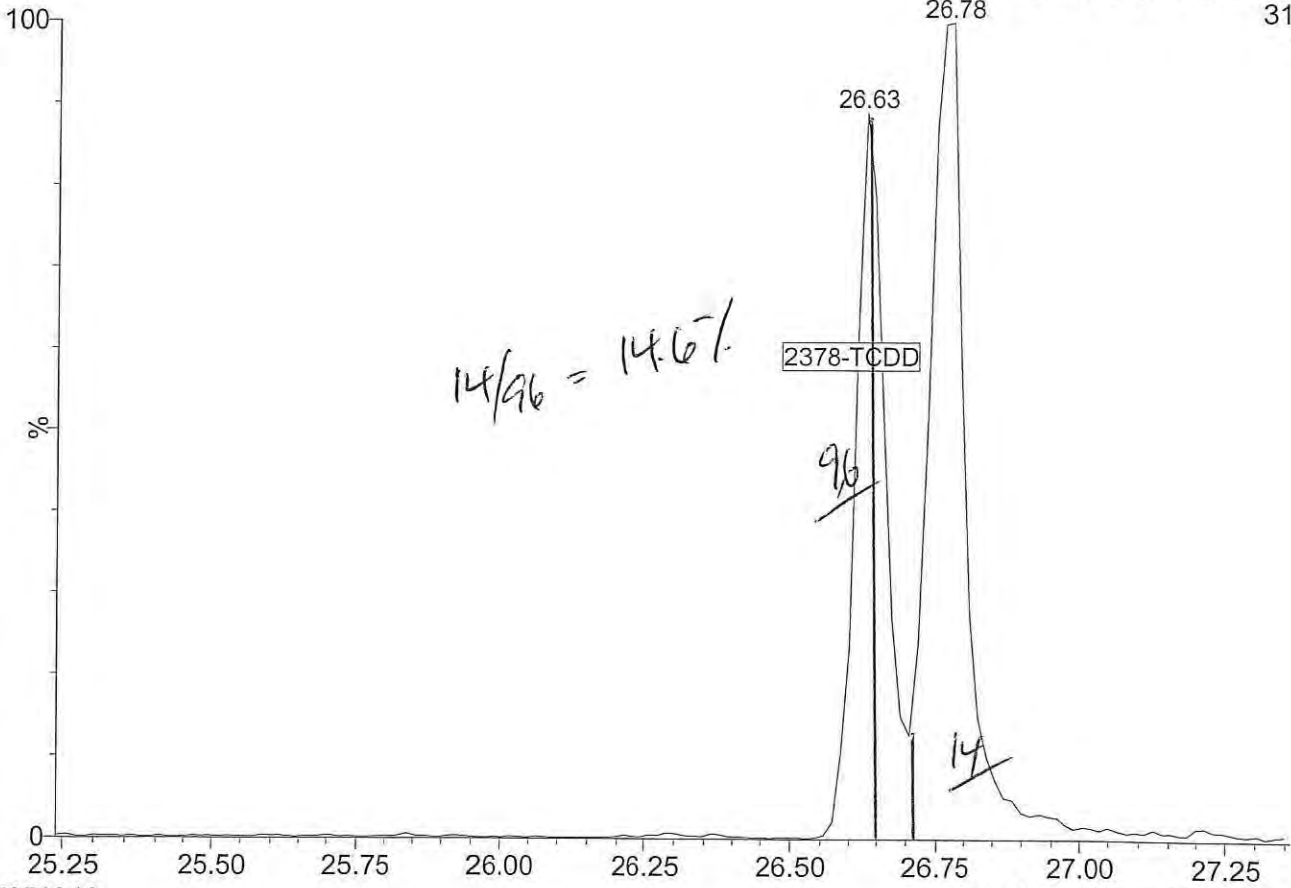
17051803

1: Voltage SIR 15 Channels EI+
303.9016
1.95e6



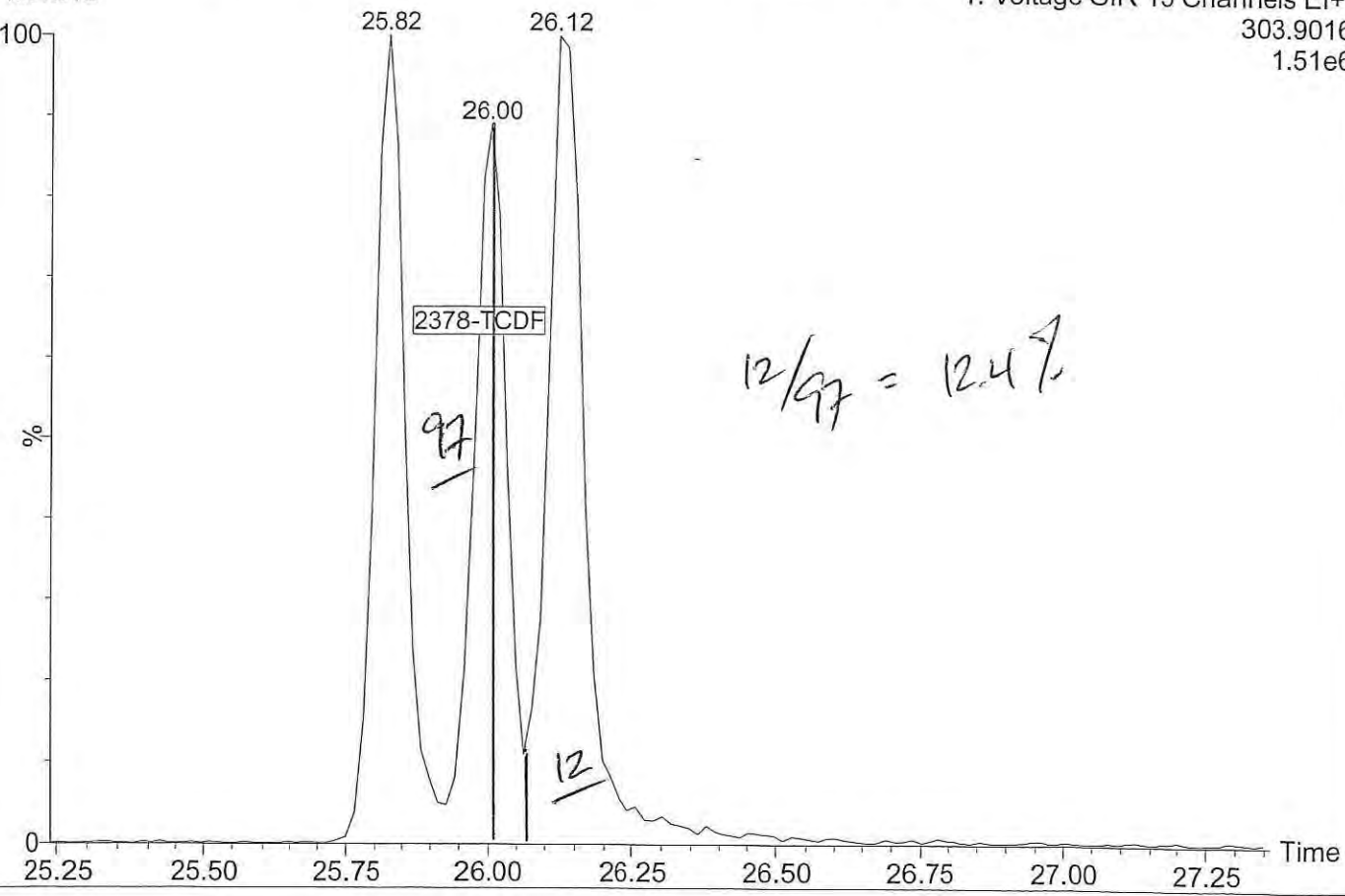
17051812

1: Voltage SIR 15 Channels EI+
319.8965
1.06e6



17051812

1: Voltage SIR 15 Channels EI+
303.9016
1.51e6



Dataset: C:\MassLynx\Dioxin.pro\170518ICIH.qld
Last Altered: Friday, May 19, 2017 14:28:40 Pacific Daylight Time
Printed: Friday, May 19, 2017 14:36:32 Pacific Daylight Time

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:17051805, Compound:HF, RT:37.380	1
Peak modified	Sample:17051805, Compound:HF, RT:37.380	1
Peak deleted	Sample:17051805, Compound:OD, RT:47.098	1
Peak deleted	Sample:17051805, Compound:OD, RT:47.098	1
Peak deleted	Sample:17051805, Compound:OD, RT:47.296	1
Peak deleted	Sample:17051805, Compound:OD, RT:47.296	1
Pre modification peak	Sample:17051805, Compound:OF, RT:47.403	1
Peak modified	Sample:17051805, Compound:OF, RT:47.403	1
Pre modification peak	Sample:17051805, Compound:PD, RT:31.724	1
Peak modified	Sample:17051805, Compound:PD, RT:31.724	1
Peak deleted	Sample:17051805, Compound:TD, RT:26.631	1
Peak deleted	Sample:17051805, Compound:TD, RT:26.631	1
Peak deleted	Sample:17051805, Compound:TF, RT:26.003	1
Peak deleted	Sample:17051805, Compound:TF, RT:26.003	1
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170518ICIH.qld'	
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170518ICIH.qld'	
Calibration Saved	Saved to 'C:\MassLynx\Dioxin.pro\CurveDB\170518ICIH.cdb'	

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin\170518.mdb 18 May 2017 15:01:42
Calibration: 19 May 2017 13:57:26

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

Table with columns: Compound, RT, RRT, Ion1Area, Ion2Area, RRF, Ratio, Pred R, Noise 1, Noise 2, Height 1, Height 2, S/N, SNFlag, EMPC, Int.1, Int.2, pg. Rows include compounds like 2378-TCDF, 12378-PeCDF, 23478-PeCDF, etc.

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
 Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
 Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int:1	Int:2	pg
13C-123789-HxCDD	36.898	0.000	6.858e5	5.342e5	1.000	1.284	1.240	4318	2859	9.32e6	7.20e6	2157.5	YES	NO	bb	bb	100.000
Total-tetrafurans			1.296e3	1.018				917		2.34e4							0.112
Total-penta1			0.000e0					670		0.00e0							
Total-pentafurans			1.590e4	0.998				1342		2.34e5							0.997
Total-hexafurans			2.489e4	1.138				1517		3.43e5							1.995
Total-heptafurans			1.055e4	1.248				1821		1.45e5							1.120
Total-Furans			5.768e4	1.138				917		8.03e5							5.185
Total-tetra-dioxins			1.212e3	1.244				866		1.93e4							0.128
Total-pentadioxins			4.201e3	1.058				1343		5.96e4							0.476
Total-hexadioxins			1.330e4	1.047				1242		1.84e5							1.517
Total-heptadioxins			7.252e3	1.132				1008		9.80e4							1.045
Total-Dioxins			2.596e4	1.099				866		3.61e5							3.166
Total-TEQ			8.365e4					866		1.16e6							8.351
37CL-2378-TCDD	26.646	1.032	1.813e3	1.021				1850		2.45e4		13.2	YES		bd		0.106
FUNCTION1 PFK			2.710e5					988006		6.77e6							
FUNCTION2 PFK			1.886e5					196933		5.87e6							
FUNCTION3 PFK			0.000e0					1102264		0.00e0							0.000
FUNCTION4 PFK			2.903e6					649881		5.95e7							
FUNCTION5 PFK			1.507e4					335635		7.41e5							
FUNCTION1 HXCDPE			0.000e0					399		0.00e0							
FUNCTION1 HPCDPE			4.461e2					569		9.86e3							0.000
FUNCTION2 HPCDPE			4.546e2					876		9.30e3							0.000
FUNCTION3 OCDPE			0.000e0					634		0.00e0							
FUNCTION4 NCDPE			5.429e2					484		1.54e4							
FUNCTION5 DCDPE			0.000e0					455		0.00e0							0.000

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\IC1H.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\IDioxin170518.mdb 18 May 2017 15:01:42
Calibration: 19 May 2017 13:57:26

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

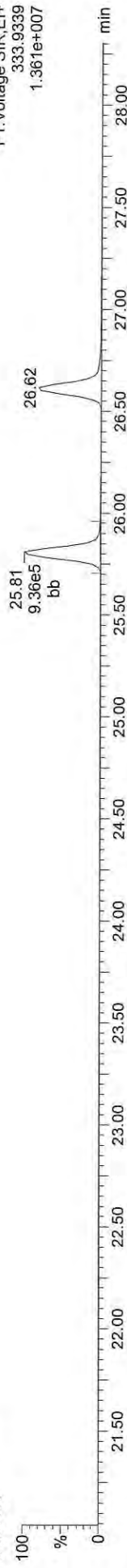
13C-1234-TCDD

17051805



13C-1234-TCDD

17051805



13C-123789-HxCDD

17051805



13C-123789-HxCDD

17051805



Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld

Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time

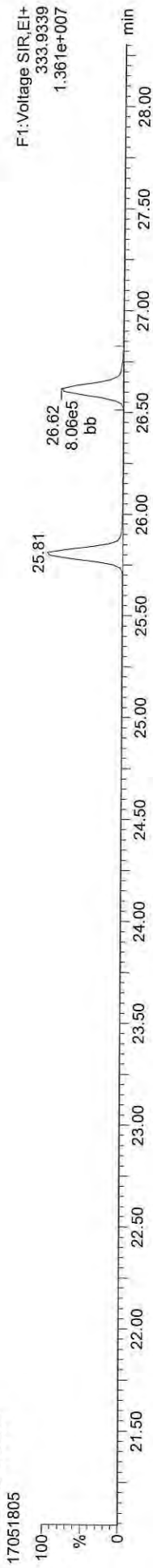
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

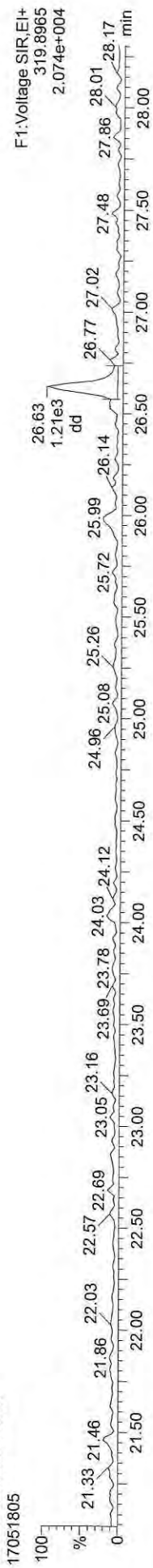
13C-2378-TCDD



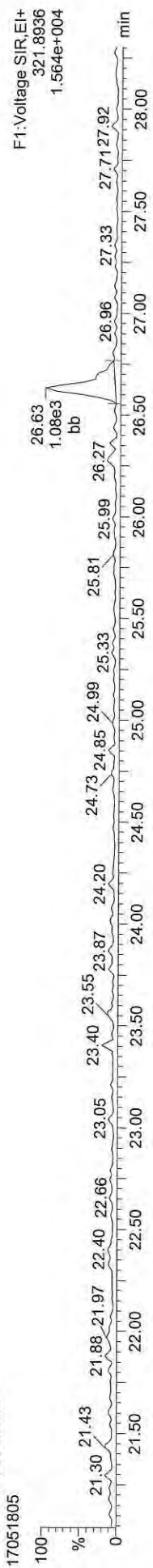
13C-2378-TCDD



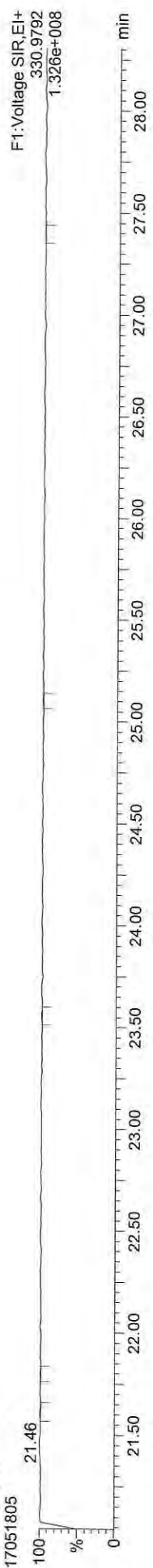
Total-tetradiioxins



Total-tetradiioxins



FUNCTION1 PFK



ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



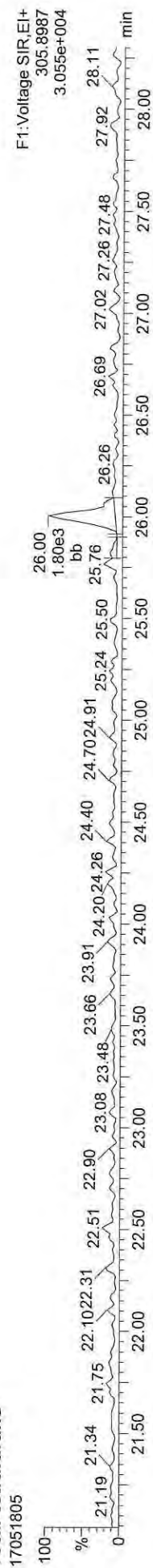
13C-2378-TCDF



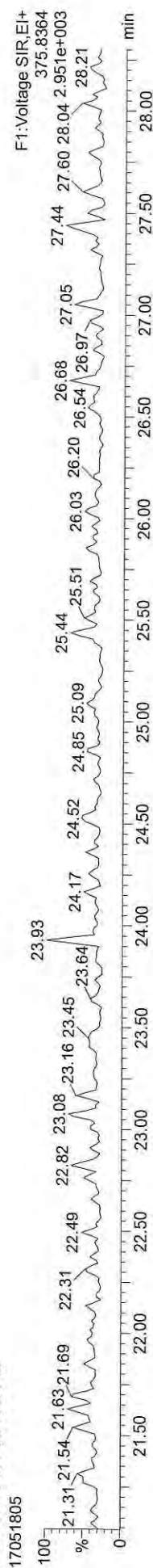
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

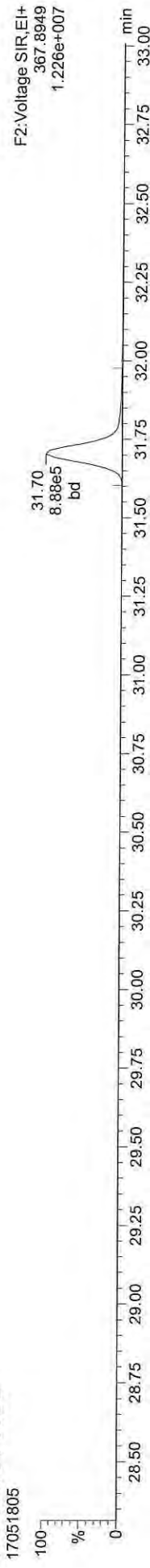


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

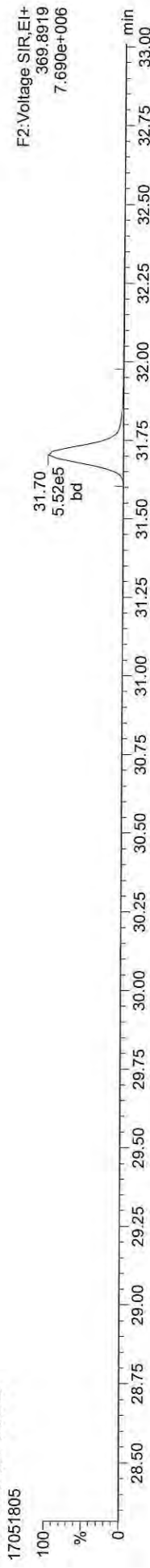
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

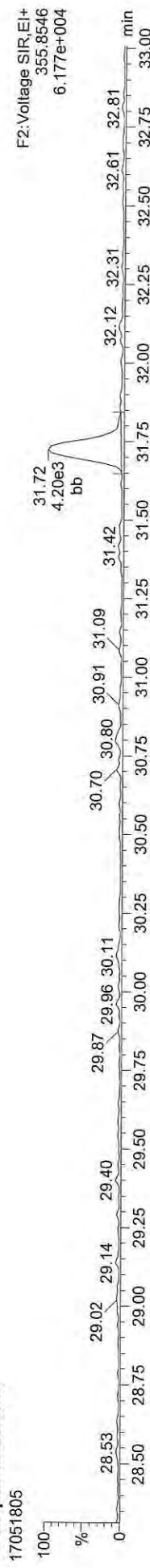
13C-12378-PeCDD



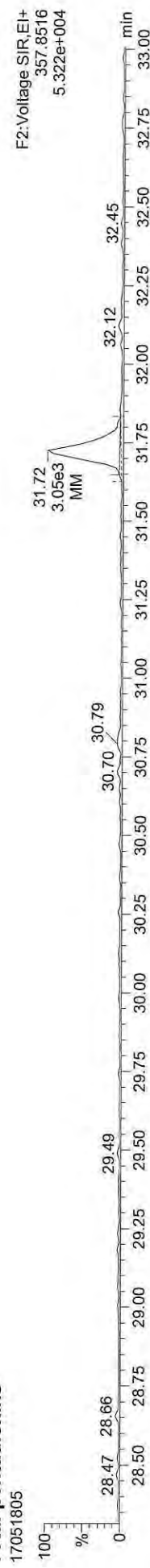
13C-12378-PeCDD



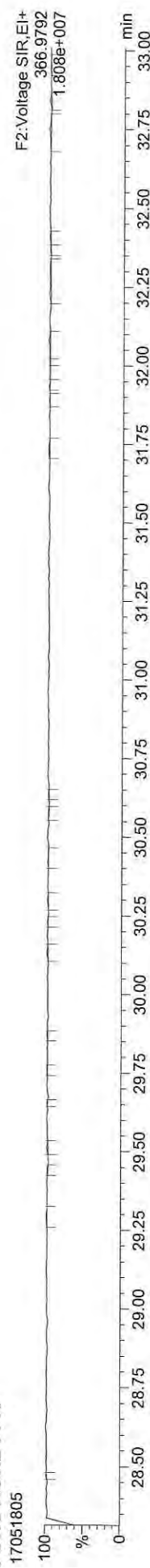
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



Quantify Sample Report

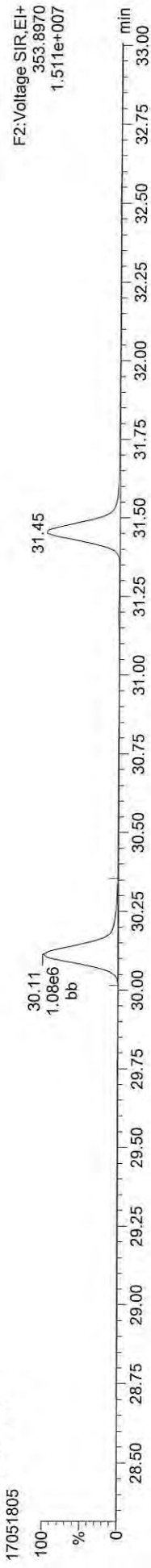
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

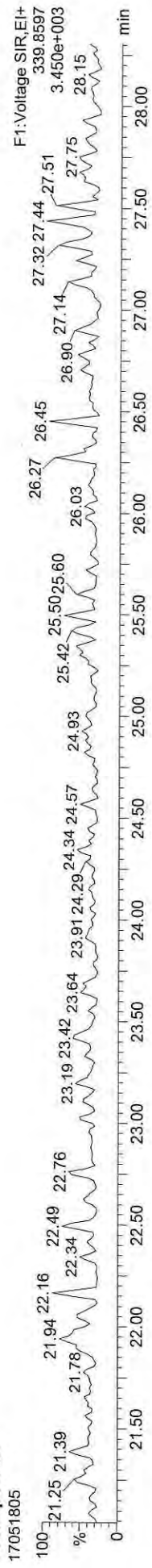
13C-12378-PeCDF



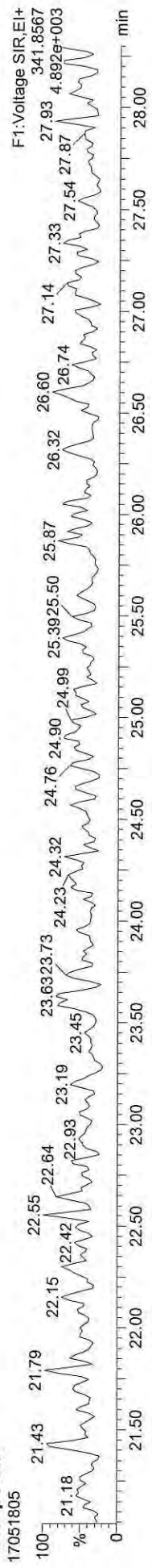
13C-12378-PeCDF



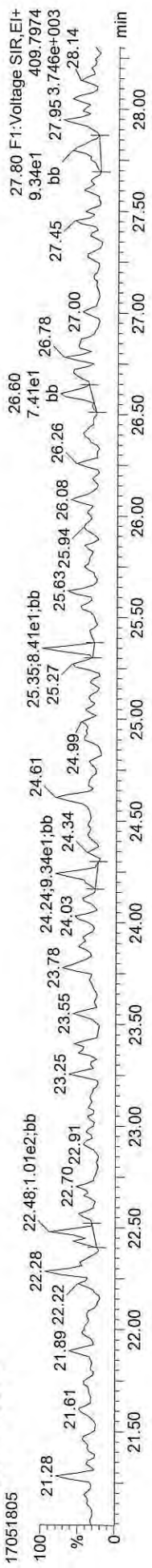
Total-penta1



Total-penta1

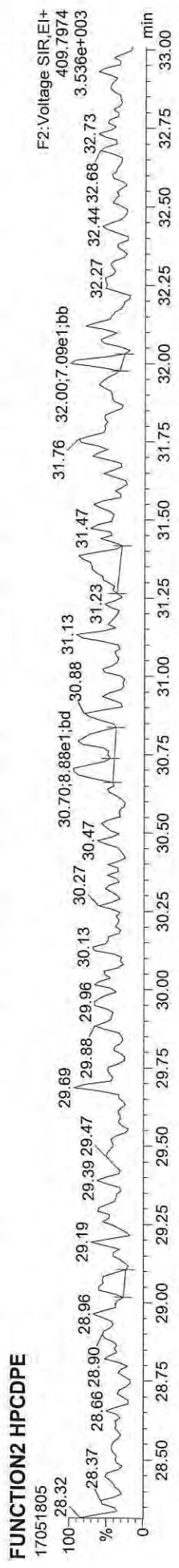
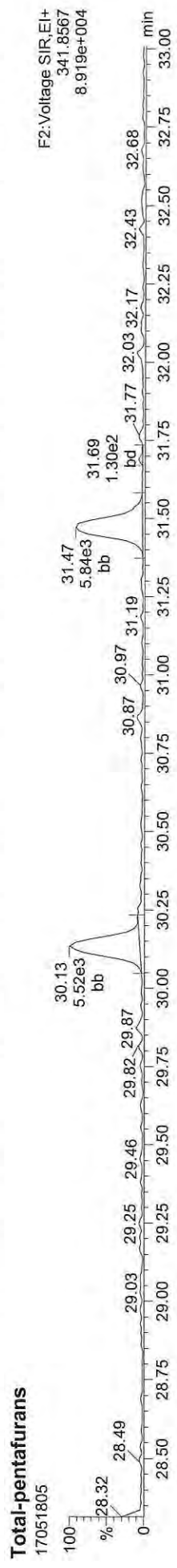
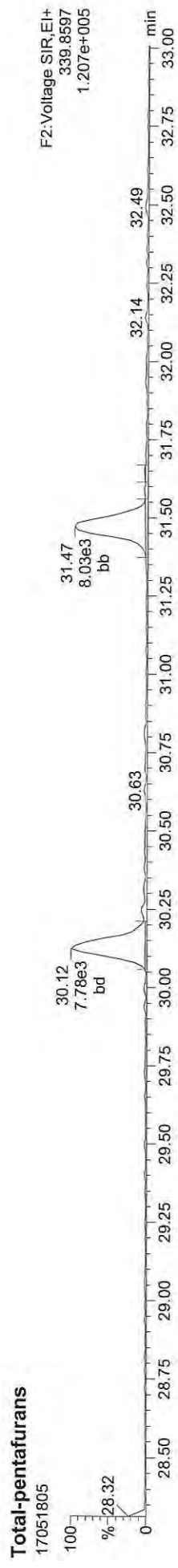
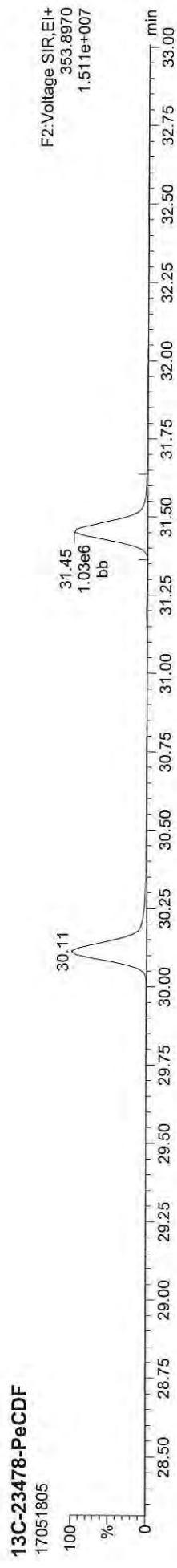
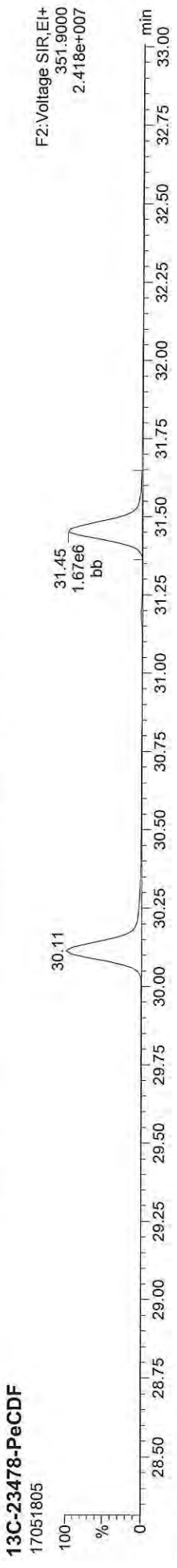


FUNCTION1 HPCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

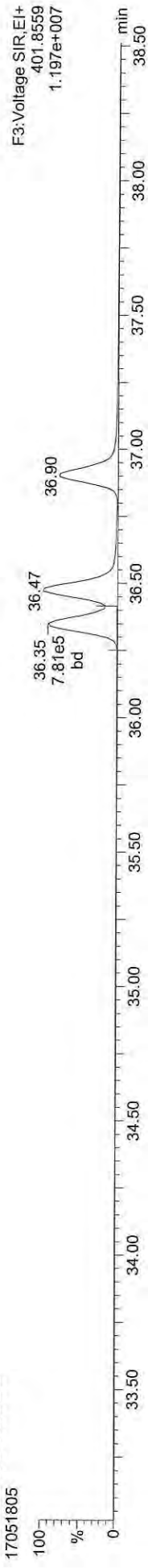


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

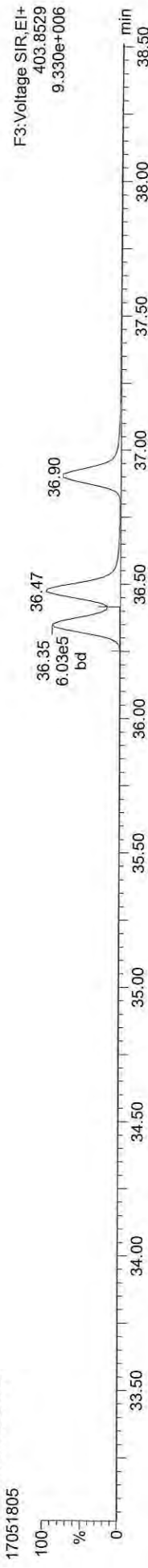
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

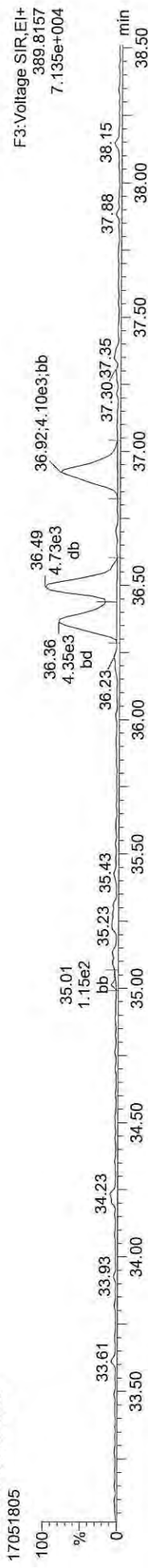
13C-123478-HxCDD



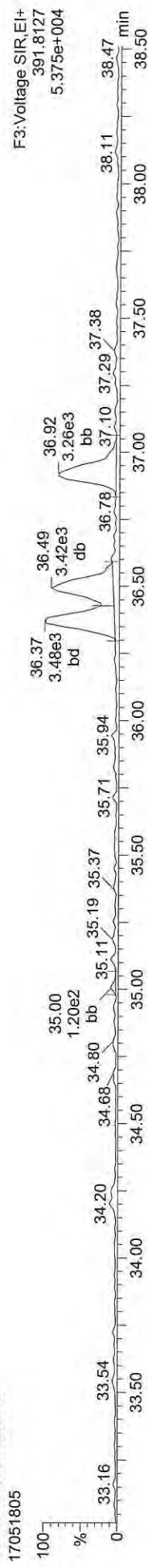
13C-123478-HxCDD



Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

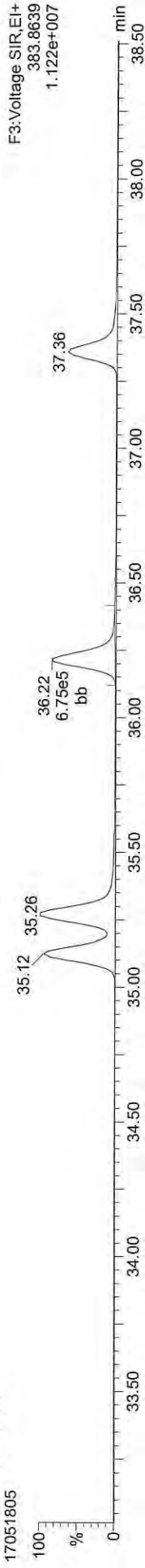


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

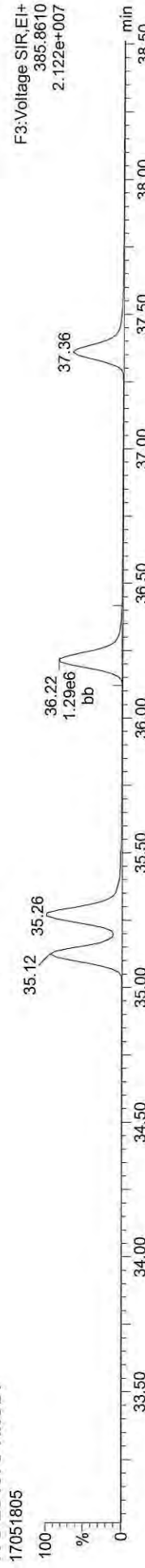
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

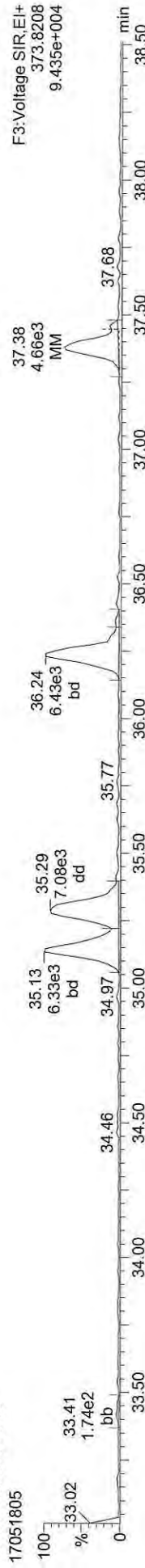
13C-234678-HxCDF



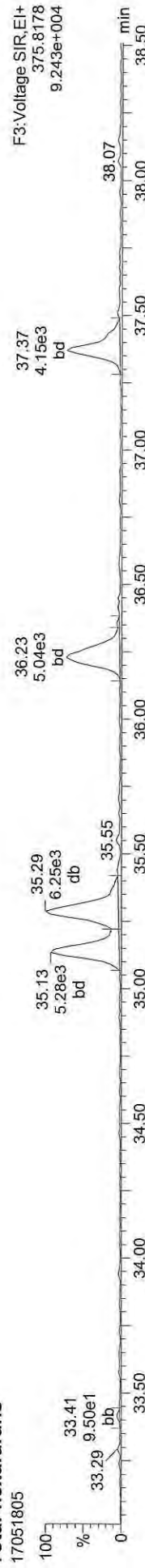
13C-234678-HxCDF



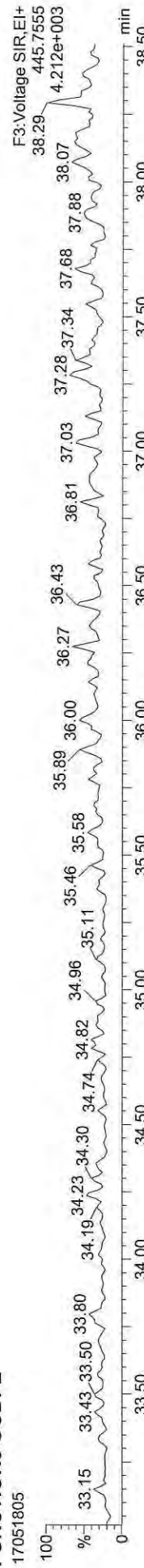
Total-hexafurans



Total-hexafurans



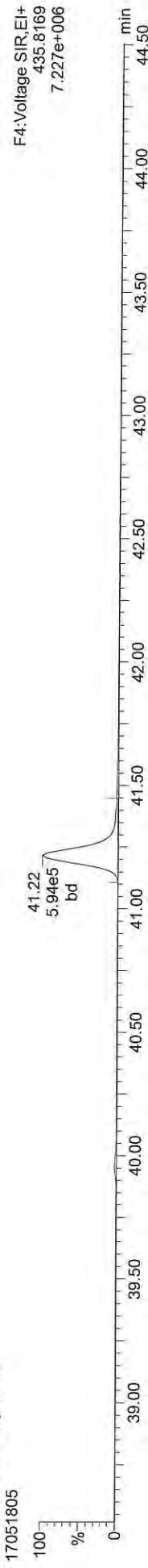
FUNCTION3 OCDPE



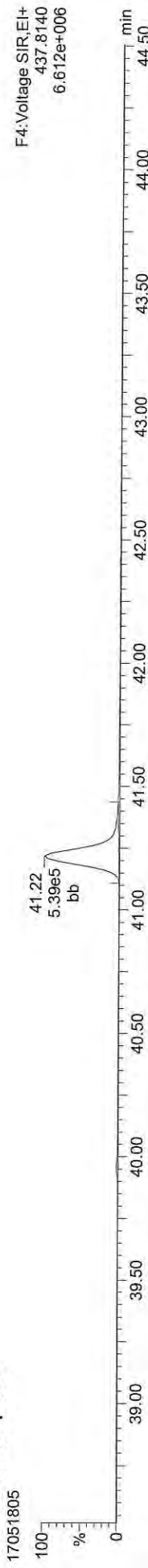
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

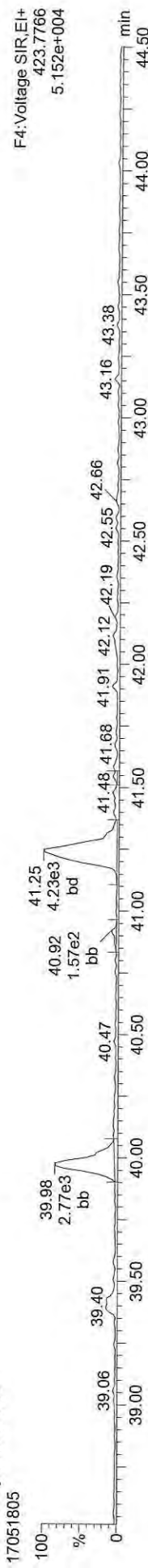
13C-1234678-HpCDD



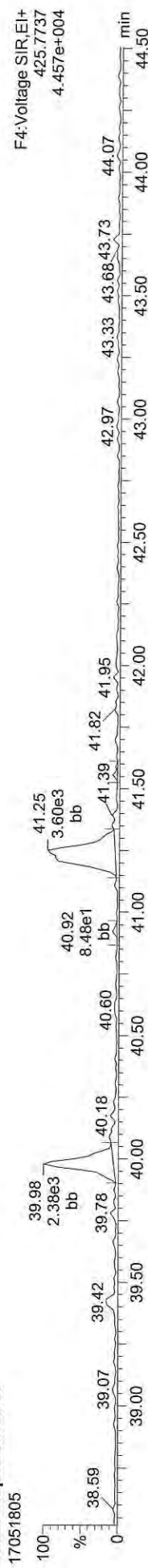
13C-1234678-HpCDD



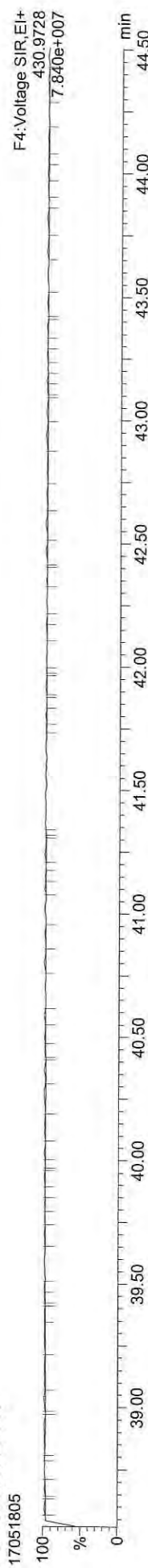
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

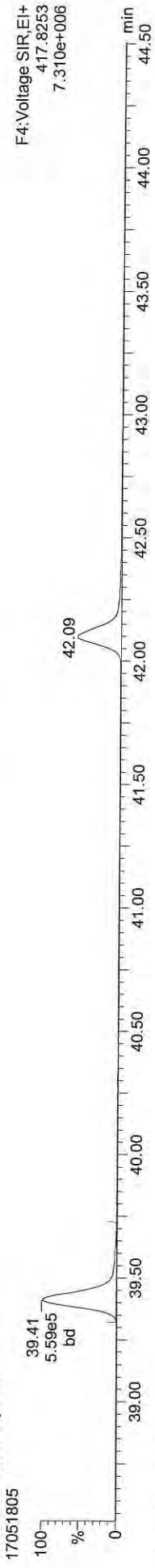


Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



13C-1234678-HpCDF



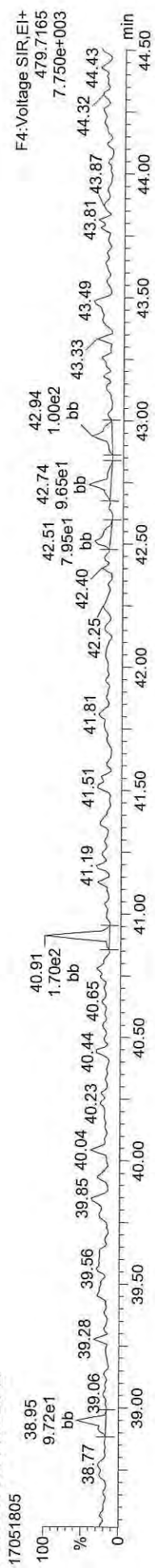
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



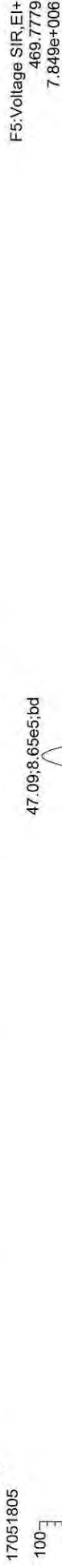
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

13C-OCDD

17051805



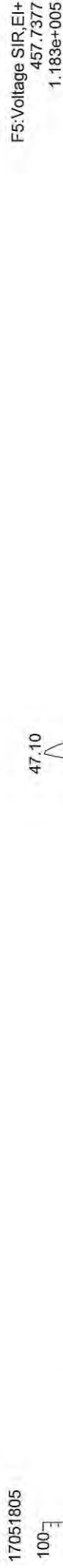
13C-OCDD

17051805



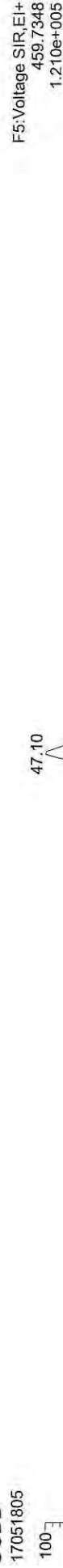
OCDD

17051805



OCDD

17051805



FUNCTION5 PFK

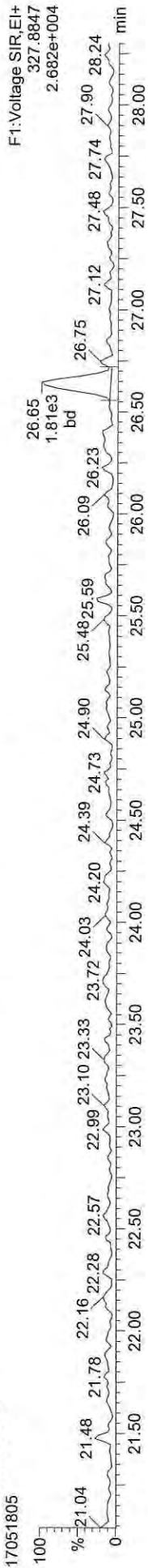
17051805



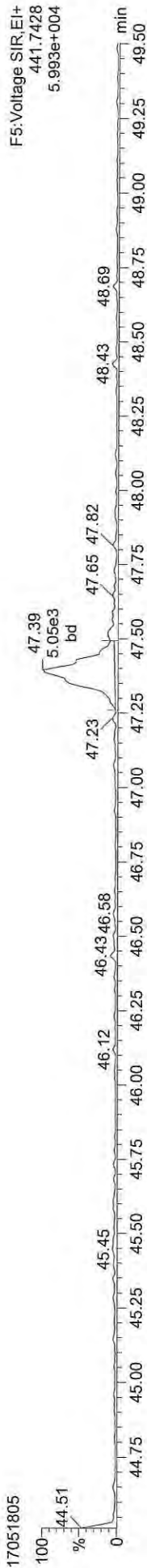
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17051805\1705180518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:49 Pacific Daylight Time

ID: CSL, Name: 17051805, Date: 18-May-2017, Time: 19:22:46, Conditions: AUTOSPEC01, User: pk

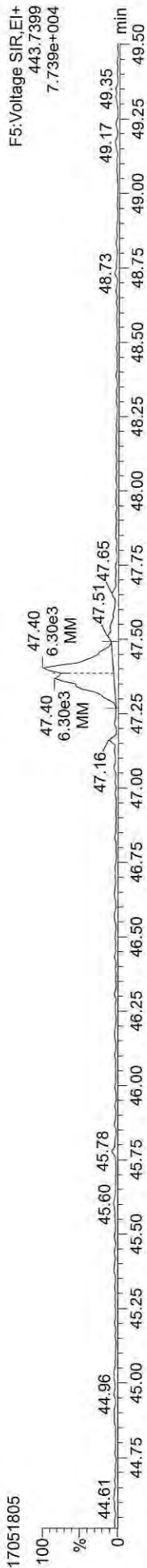
37CL-2378-TCDD



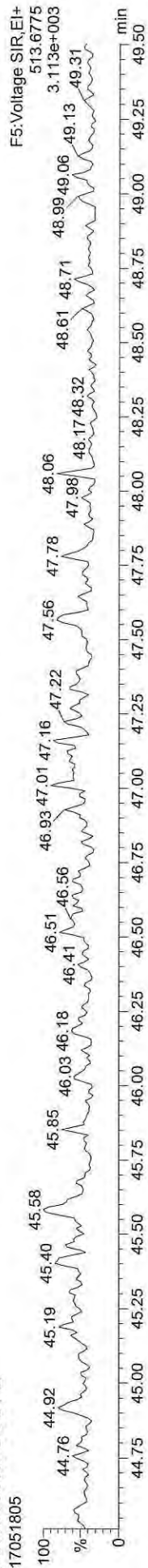
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\IC1H.qld
 Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
 Printed: Friday, May 19, 2017 13:58:51 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin\170518.mdb 18 May 2017 15:01:42
 Calibration: 19 May 2017 13:57:26

ID: CS1, Name: 17051806, Date: 18-May-2017, Time: 20:16:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.988	1.000	5.873e3	8.813e3	1.018	0.666	0.770	690	2050	7.72e4	1.31e5	111.E	YES	NO	bd	dd	0.466
12378-PeCDF	30.134	1.001	4.509e4	2.953e4	0.977	1.527	1.550	1801	2340	6.36e5	4.00e5	353.0	YES	NO	bd	bd	2.438
23478-PeCDF	31.482	1.001	4.339e4	2.890e4	1.019	1.502	1.550	1801	2340	6.15e5	4.18e5	341.4	YES	NO	bb	bb	2.342
123478-HxCDF	35.143	1.001	3.537e4	2.940e4	1.150	1.203	1.240	2354	1534	5.27e5	4.17e5	224.0	YES	NO	bd	bd	2.424
234678-HxCDF	36.239	1.001	3.266e4	2.814e4	1.188	1.160	1.240	2354	1534	4.78e5	3.91e5	203.2	YES	NO	bb	bd	2.361
123678-HxCDF	35.286	1.000	3.926e4	2.921e4	1.100	1.344	1.240	2354	1534	5.23e5	4.03e5	222.1	YES	NO	dd	dd	2.353
123789-HxCDF	37.379	1.000	2.576e4	2.191e4	1.116	1.176	1.240	2354	1534	3.53e5	2.93e5	150.0	YES	NO	bd	bb	2.469
1234678-HpCDF	39.429	1.000	2.959e4	3.067e4	1.238	0.965	1.050	1719	1382	4.01e5	4.20e5	233.6	YES	NO	bd	bd	2.484
1234789-HpCDF	42.125	1.001	1.908e4	1.929e4	1.257	0.989	1.050	1719	1382	2.33e5	2.19e5	135.3	YES	NO	bd	bd	2.361
OCDF	47.383	1.006	2.717e4	3.249e4	1.321	0.836	0.890	996	2159	2.46e5	2.92e5	246.7	YES	NO	bd	bd	4.689
2378-TCDD	26.631	1.001	4.241e3	4.996e3	1.244	0.849	0.770	967	757	6.61e4	7.33e4	68.3	YES	NO	bd	bd	0.467
12378-PeCDD	31.735	1.001	2.486e4	1.523e4	1.058	1.632	1.550	1108	911	3.52e5	2.08e5	317.4	YES	NO	bb	bb	2.411
123478-HxCDD	36.371	1.001	2.268e4	1.918e4	1.119	1.182	1.240	1123	1078	3.38e5	2.74e5	300.5	YES	NO	dd	bd	2.465
123678-HxCDD	36.491	1.000	2.326e4	1.891e4	1.040	1.230	1.240	1123	1078	3.46e5	2.70e5	307.8	YES	NO	dd	dd	2.312
123789-HxCDD	36.919	1.012	2.231e4	1.656e4	0.981	1.348	1.240	1123	1078	3.09e5	2.28e5	274.7	YES	NO	bd	bd	2.424
1234678-HpCDD	41.226	1.000	1.679e4	1.534e4	1.132	1.094	1.050	1096	1278	2.12e5	1.92e5	193.6	YES	NO	bd	bd	2.235
OCDD	47.114	1.001	2.738e4	3.061e4	1.117	0.895	0.890	746	680	2.68e5	2.84e5	358.5	YES	NO	bd	bd	5.389
13C-2378-TCDF	25.988	1.007	1.377e6	1.718e6	1.685	0.801	0.770	6791	4269	1.93e7	2.40e7	2840.7	YES	NO	bb	bb	98.705
13C-12378-PeCDF	30.112	1.167	1.929e6	1.204e6	1.706	1.602	1.550	6402	4434	2.66e7	1.66e7	4147.8	YES	NO	bb	bb	98.709
13C-23478-PeCDF	31.460	1.219	1.884e6	1.144e6	1.632	1.646	1.550	6402	4434	2.67e7	1.64e7	4169.4	YES	NO	bd	bb	99.702
13C-123478-HxCDF	35.121	0.952	7.958e5	1.527e6	1.682	0.521	0.510	4122	7125	1.18e7	2.22e7	2860.3	YES	NO	bd	bd	101.670
13C-123678-HxCDF	35.275	0.956	9.154e5	1.731e6	1.945	0.529	0.510	4122	7125	1.27e7	2.41e7	3089.4	YES	NO	db	db	100.131
13C-234678-HxCDF	36.217	0.981	7.497e5	1.418e6	1.582	0.529	0.510	4122	7125	1.03e7	1.94e7	2490.4	YES	NO	bb	bb	100.860
13C-123789-HxCDF	37.368	1.012	5.965e5	1.134e6	1.291	0.526	0.510	4122	7125	8.08e6	1.52e7	1961.2	YES	NO	bb	bb	98.700
13C-1234678-HpCDF	39.418	1.068	6.073e5	1.352e6	1.427	0.449	0.440	4704	5986	8.33e6	1.84e7	1771.0	YES	NO	bb	bb	101.113
13C-1234789-HpCDF	42.103	1.141	3.988e5	8.934e5	0.957	0.446	0.440	4704	5986	4.57e6	1.01e7	971.4	YES	NO	bd	bd	99.412
13C-12334-TCDD	25.809	0.000	8.188e5	1.042e6	1.000	0.785	0.770	2673	1687	1.21e7	1.54e7	4518.5	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.616	1.031	6.973e5	8.924e5	0.873	0.781	0.770	2673	1687	9.77e6	1.27e7	3656.4	YES	NO	bb	bb	97.870
13C-12378-PeCDD	31.712	1.229	9.594e5	6.120e5	0.860	1.568	1.550	2214	2156	1.35e7	8.50e6	6097.1	YES	NO	bb	bd	98.166
13C-123478-HxCDD	36.349	0.985	8.570e5	6.597e5	1.114	1.299	1.240	3395	2755	1.26e7	9.76e6	3724.3	YES	NO	bd	bd	100.266
13C-123678-HxCDD	36.480	0.988	9.848e5	7.682e5	1.258	1.282	1.240	3395	2755	1.32e7	1.03e7	3885.3	YES	NO	db	db	102.547
13C-1234678-HpCDD	41.215	1.117	6.557e5	6.141e5	0.924	1.068	1.050	6211	2736	8.07e6	7.59e6	1299.5	YES	NO	bd	bd	101.206
13C-OCDD	47.087	1.276	9.147e5	1.012e6	0.738	0.904	0.890	4349	3495	8.80e6	9.52e6	2024.2	YES	NO	bd	bd	192.115

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld

Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time

Printed: Friday, May 19, 2017 13:58:51 Pacific Daylight Time

ID: CS1, Name: 17051806, Date: 18-May-2017, Time: 20:16:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	Pg
13C-123789-HxCDD	36.908	0.000	7.648e5	5.935e5	1.000	1.288	1.240	3395	2755	1.04e7	7.99e6	3055.0	YES	NO	bb	bb	100.000
Total-tetrafurans			6.261e3	1.018				690		8.48e4							0.492
Total-penta1			1.409e2					458		2.23e3							0.009
Total-pentafurans			9.050e4	0.998				1801		1.29e6							4.885
Total-hexafurans			1.347e5	1.138				2354		1.92e6							9.707
Total-heptafurans			4.967e4	1.248				1719		6.60e5							4.953
Total-Furans			3.084e5	1.138				690		4.21e6							24.735
Total-tetra-dioxins			4.568e3	1.244				967		7.08e4							0.494
Total-pentadioxins			2.486e4	1.058				1108		3.52e5							2.411
Total-hexadioxins			6.866e4	1.047				1123		9.99e5							7.252
Total-heptadioxins			1.855e4	1.132				1096		2.52e5							2.539
Total-Dioxins			1.440e5	1.099				967		1.94e6							18.085
Total-TEQ			4.524e5					967		6.15e6							42.820
37CL-2378-TCDD	26.631	1.032	8.241e3	1.021				1613		1.23e5		76.5	YES		bb		0.434
FUNCTION1 PFK			0.000e0					932779		0.00e0							0.000
FUNCTION2 PFK			5.290e5					181490		1.38e7							0.000
FUNCTION3 PFK			3.051e6					1244687		7.00e7							0.000
FUNCTION4 PFK			0.000e0					650863		0.00e0							
FUNCTION5 PFK			1.088e7					324774		1.12e8							
FUNCTION1 HXCDPE			2.503e2					354		4.09e3							0.000
FUNCTION1 HPCDPE			3.397e2					645		7.42e3							0.000
FUNCTION2 HPCDPE			4.329e2					1024		1.06e4							0.000
FUNCTION3 OCDPE			0.000e0					599		0.00e0							
FUNCTION4 NCDPE			0.000e0					580		0.00e0							
FUNCTION5 DCDPE			0.000e0					419		0.00e0							

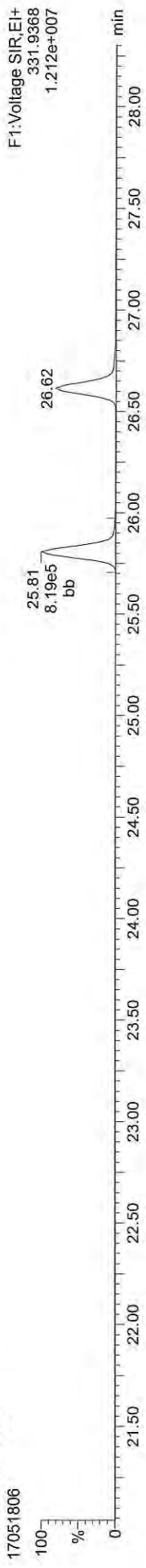
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:51 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: 19 May 2017 13:57:26

ID: CS1, Name: 17051806, Date: 18-May-2017, Time: 20:16:01, Conditions: AUTOSPEC01, User: pk

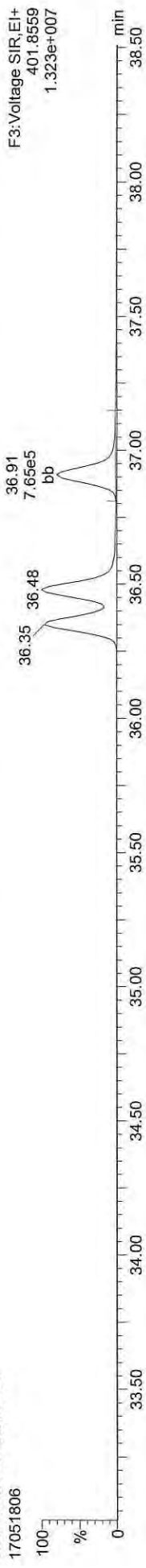
13C-1234-TCDD



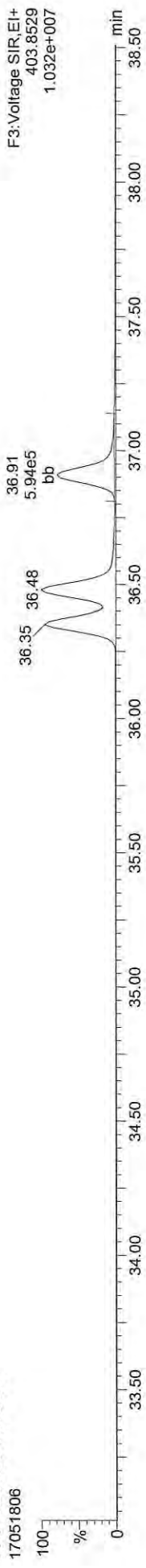
13C-1234-TCDD



13C-123789-HxCDD



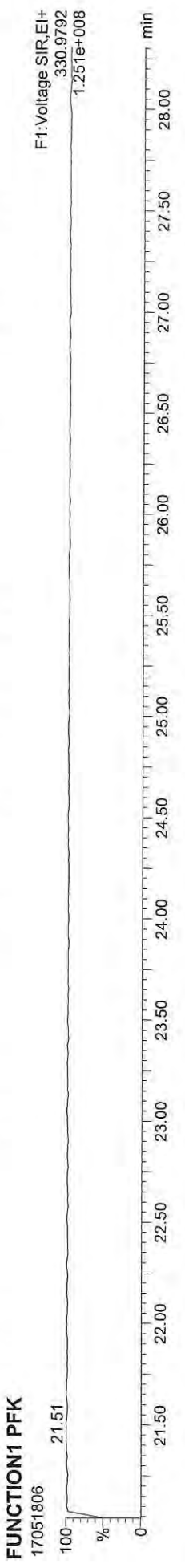
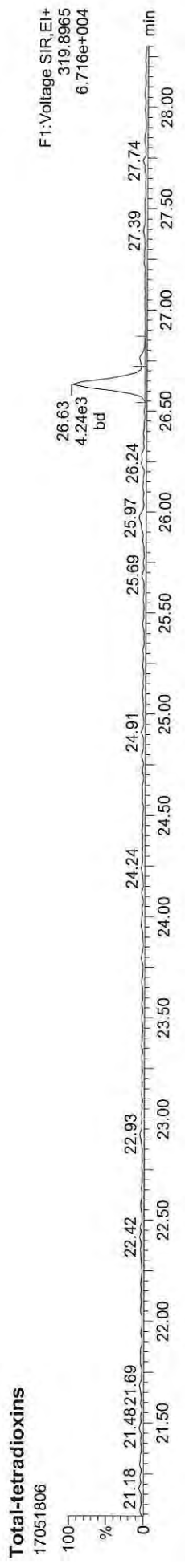
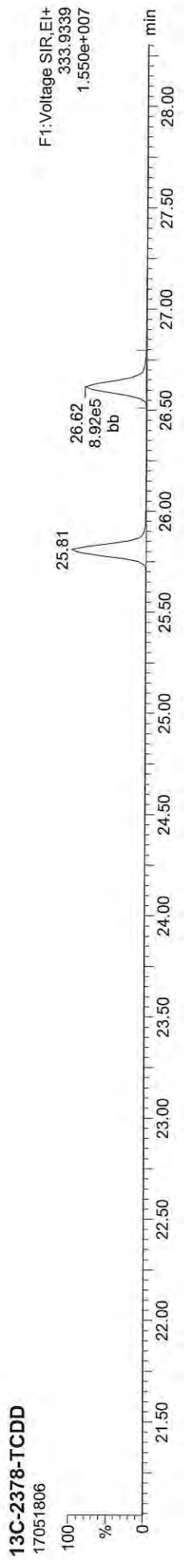
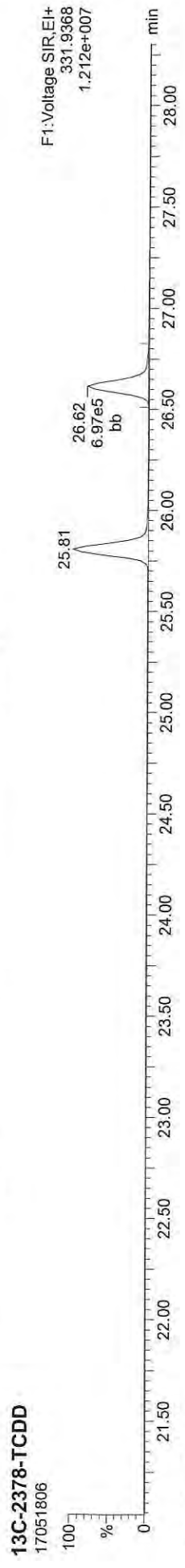
13C-123789-HxCDD



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:51 Pacific Daylight Time

ID: CS1, Name: 17051806, Date: 18-May-2017, Time: 20:16:01, Conditions: AUTOSPEC01, User: pk



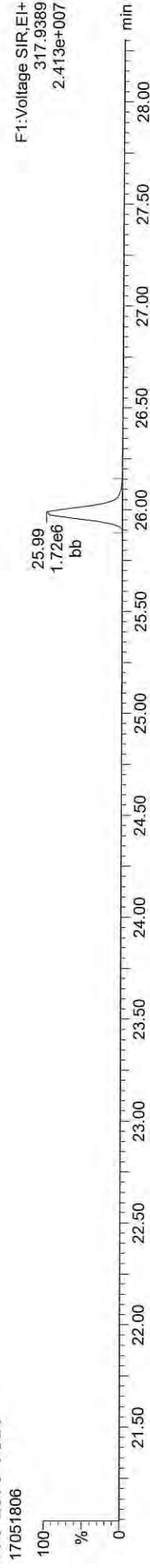
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170518\CIH.qld
Last Altered: Friday, May 19, 2017 13:57:26 Pacific Daylight Time
Printed: Friday, May 19, 2017 13:58:51 Pacific Daylight Time

ID: CS1, Name: 17051806, Date: 18-May-2017, Time: 20:16:01, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF



13C-2378-TCDF



Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

