

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG101717\
 Data File : BG029334.D
 Acq On : 18 Oct 2017 15:08
 Operator : SJ/JU
 Sample : I5906-15DL 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 WH-TWS-05DL

Quant Time: Oct 18 16:44:28 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG101617.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 16 17:32:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	66498	20.00	ng	0.00
21) Naphthalene-d8	10.98	136	330227	20.00	ng	0.00
38) Acenaphthene-d10	14.79	164	208269	20.00	ng	0.00
63) Phenanthrene-d10	17.52	188	463772	20.00	ng	0.00
75) Chrysene-d12	21.79	240	503483	20.00	ng	-0.01
86) Perylene-d12	25.10	264	501037	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.72	112	104665	26.29	ng	0.00
7) Phenol-d6	7.32	99	133373	23.87	ng	0.00
23) Nitrobenzene-d5	9.33	82	95261	18.33	ng	-0.01
41) 2,4,6-Tribromophenol	16.27	330	68139	25.34	ng	0.00
44) 2-Fluorobiphenyl	13.41	172	263357	18.55	ng	0.00
78) Terphenyl-d14	20.11	244	405902	18.34	ng	-0.01

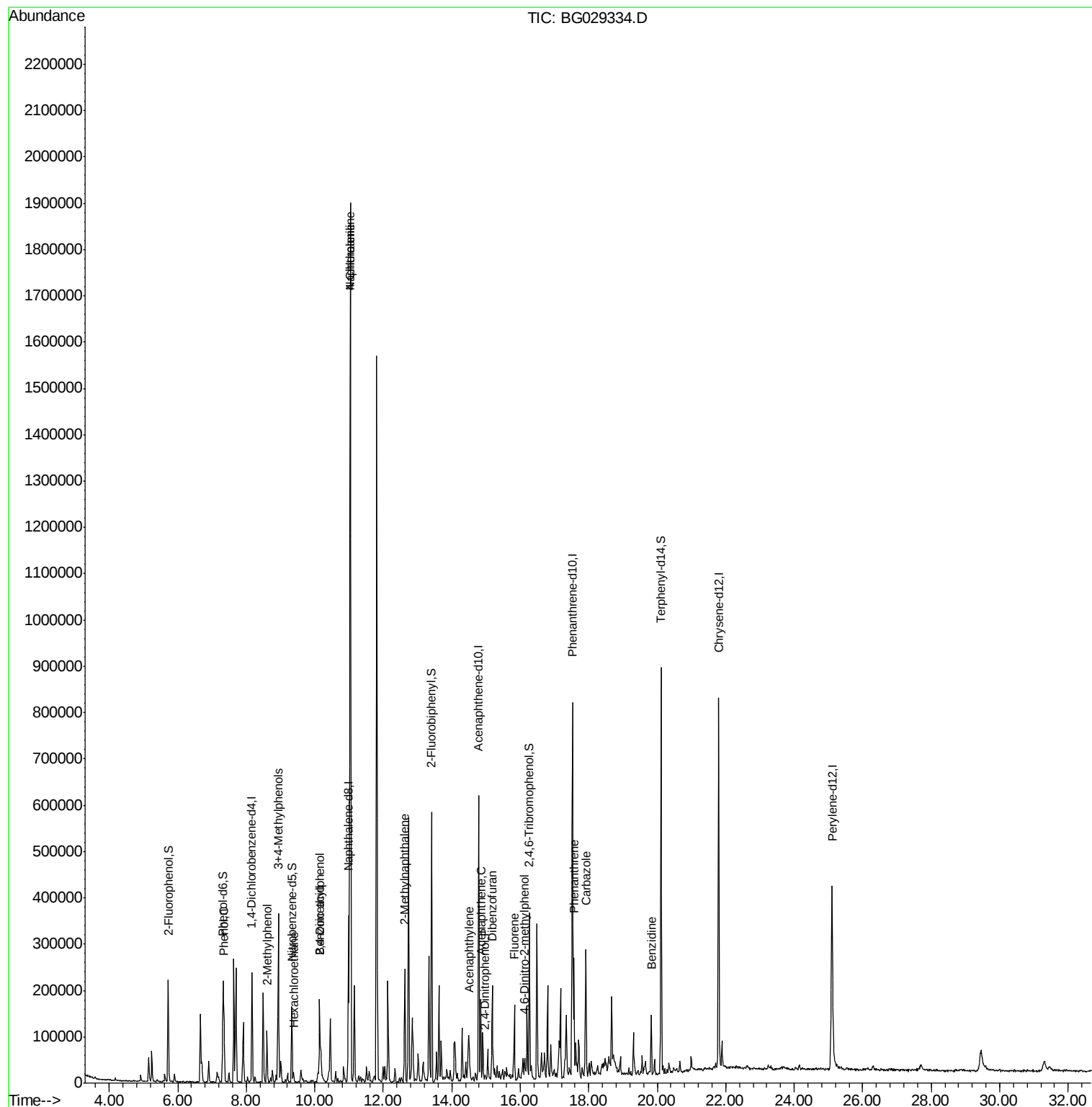
Target Compounds				Qvalue		
10) Phenol	7.35	94	94105	15.622	ng	91
17) 2-Methylphenol	8.61	107	36634	9.155	ng	96
18) Hexachloroethane	9.38	117	9883	5.545	ng	# 1
20) 3+4-Methylphenols	8.93	107	148721	26.377	ng	94
27) 2,4-Dimethylphenol	10.14	122	76617	15.164	ng	87
31) Naphthalene	11.04	128	1600237	97.232	ng	98
32) Benzoic acid	10.14	122	76617	18.111	ng	# 4
33) 4-Chloroaniline	11.04	127	230694	33.323	ng	# 32
37) 2-Methylnaphthalene	12.63	142	120260	10.026	ng	93
48) Acenaphthylene	14.51	152	49857	2.440	ng	97
51) Acenaphthene	14.85	154	61339	4.613	ng	97
53) 2,4-Dinitrophenol	14.97	184	168	6.713	ng	# 45
54) Dibenzofuran	15.18	168	112186	5.910	ng	99
57) Fluorene	15.83	166	69382	4.425	ng	97
64) 4,6-Dinitro-2-methylphenol	16.13	198	433	5.147	ng	# 1
70) Phenanthrene	17.57	178	144216	6.019	ng	99
72) Carbazole	17.92	167	178175	7.710	ng	98
76) Benzidine	19.83	184	41190	2.710	ng	# 94

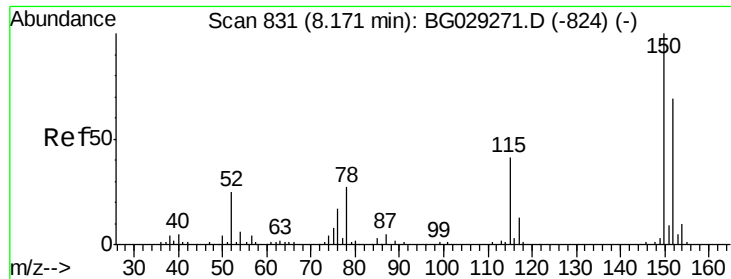
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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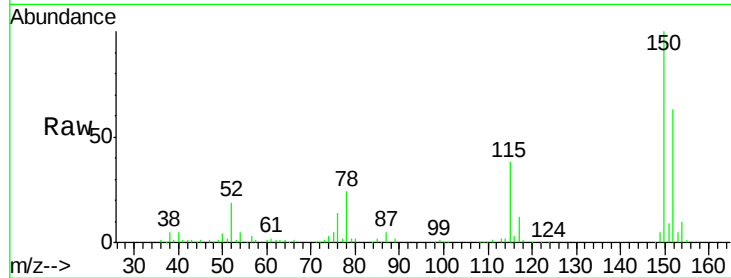


#1

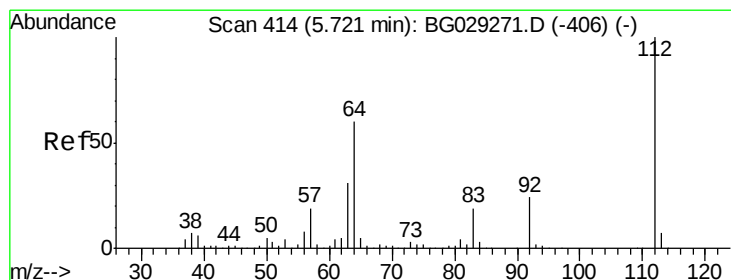
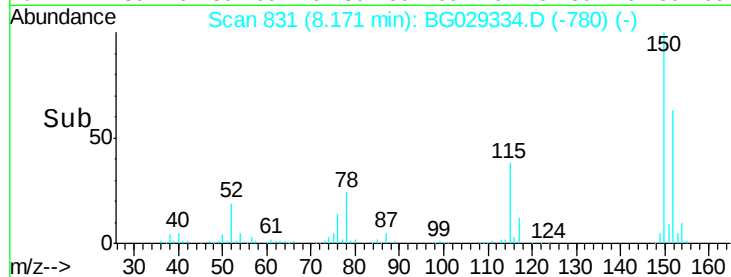
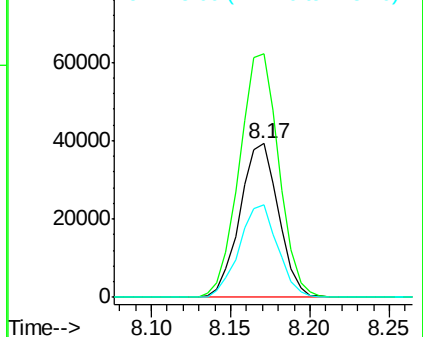
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.17 min Scan# 831
Delta R.T. 0.00 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

Tgt Ion:152 Resp: 66498
Ion Ratio Lower Upper
152 100
150 158.6 126.6 189.8
115 60.5 53.0 79.4



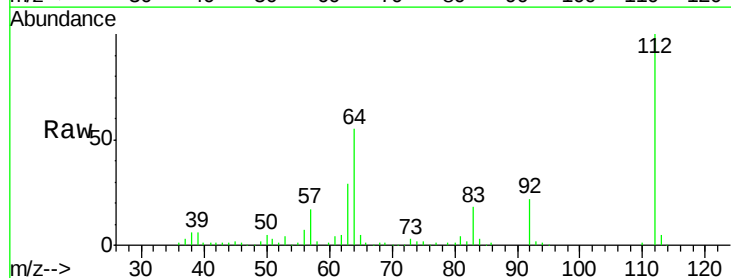
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



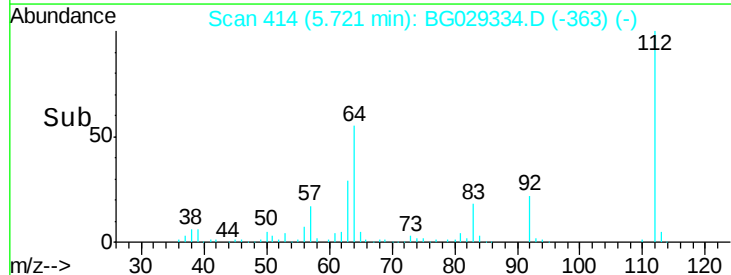
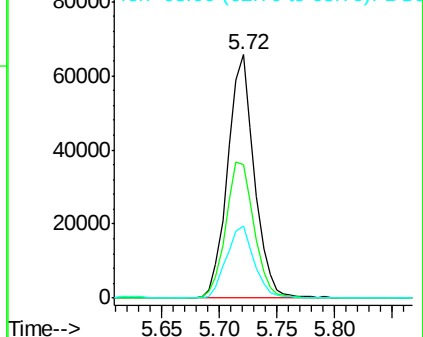
#5

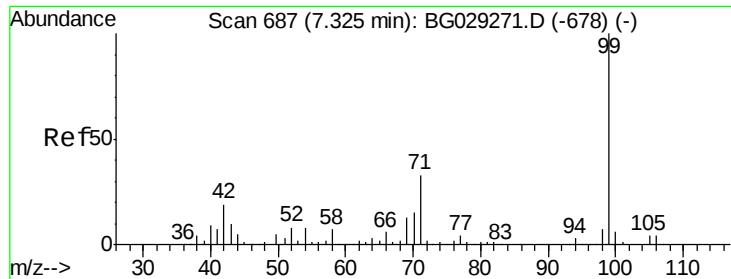
2-Fluorophenol
Concen: 26.294 ng
RT: 5.72 min Scan# 414
Delta R.T. 0.00 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:112 Resp: 104665
Ion Ratio Lower Upper
112 100
64 54.6 56.3 84.5#
63 29.4 30.1 45.1#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BGC
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 23.870 ng

RT: 7.32 min Scan# 686

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

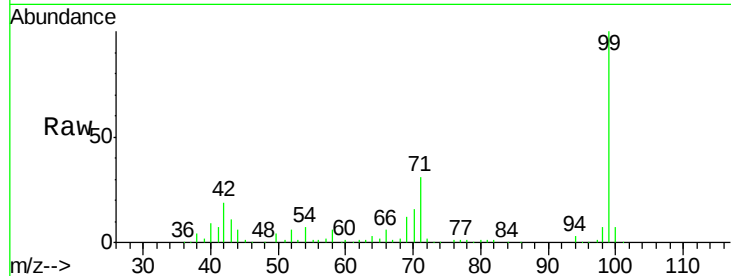
Tgt Ion: 99 Resp: 133373

Ion Ratio Lower Upper

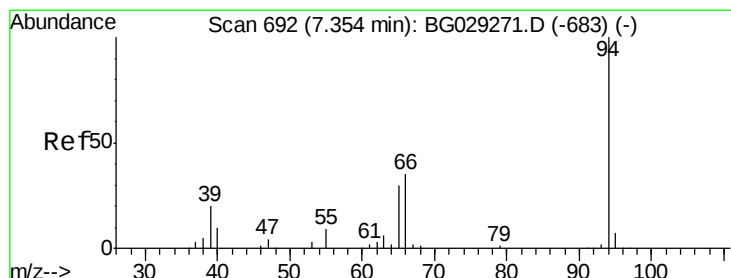
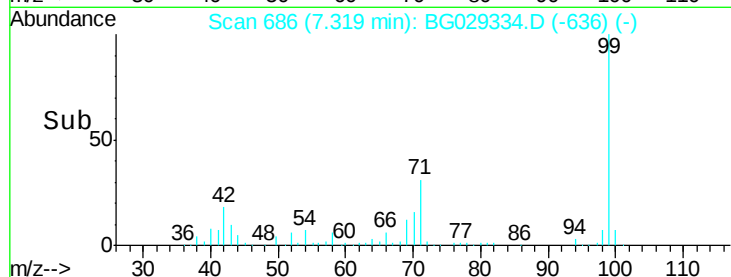
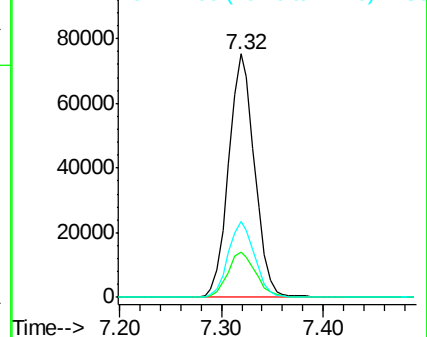
99 100

42 18.7 14.1 21.1

71 31.3 26.1 39.1



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#10

Phenol

Concen: 15.622 ng

RT: 7.35 min Scan# 691

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

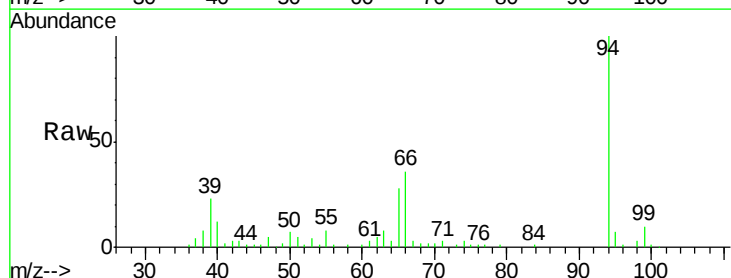
Tgt Ion: 94 Resp: 94105

Ion Ratio Lower Upper

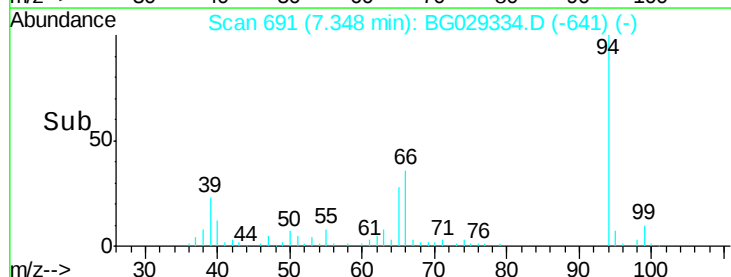
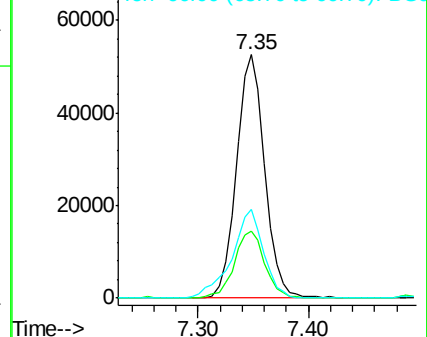
94 100

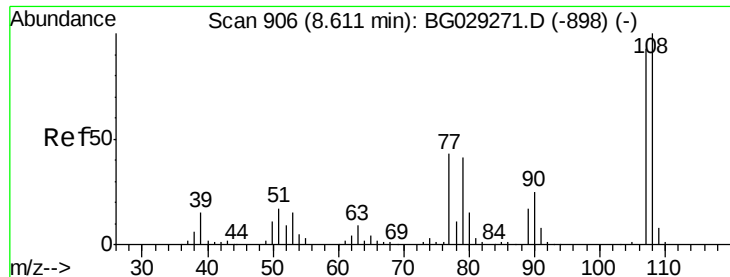
65 27.6 11.9 51.9

66 36.2 22.2 62.2



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC

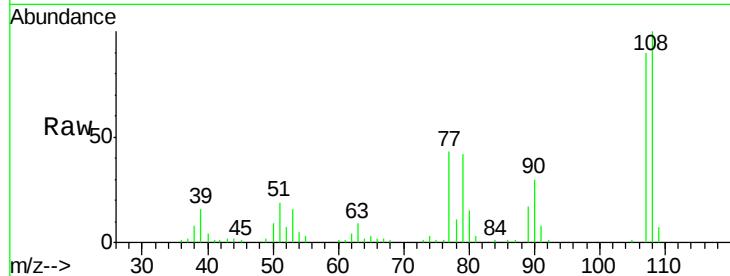




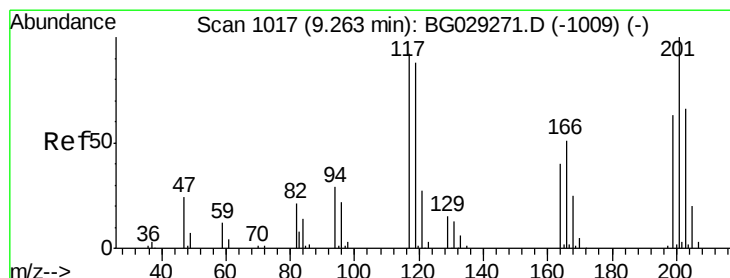
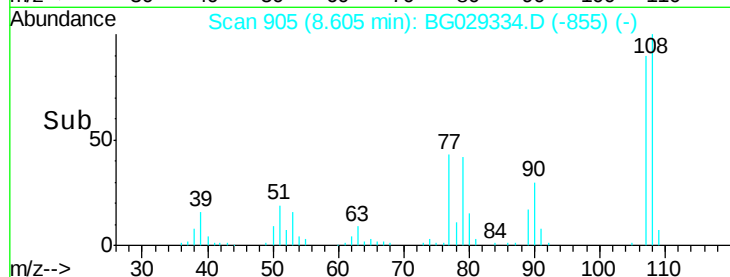
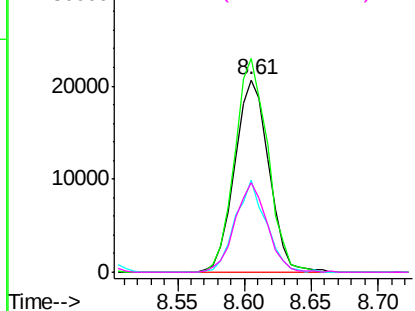
#17
2-Methylphenol
Concen: 9.155 ng
RT: 8.61 min Scan# 905
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

Tgt Ion:107 Resp: 36634
Ion Ratio Lower Upper
107 100
108 110.9 83.9 125.9
77 47.7 37.2 55.8
79 46.8 36.2 54.2

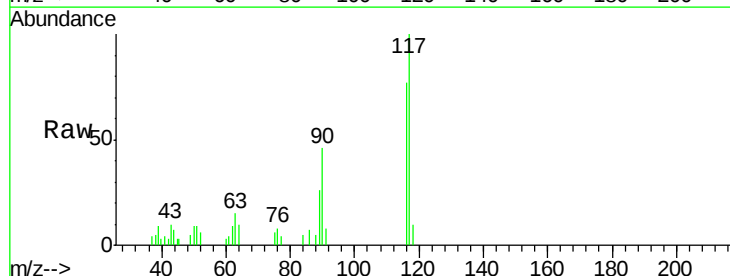


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BG
Ion 79.00 (78.70 to 79.70): BG

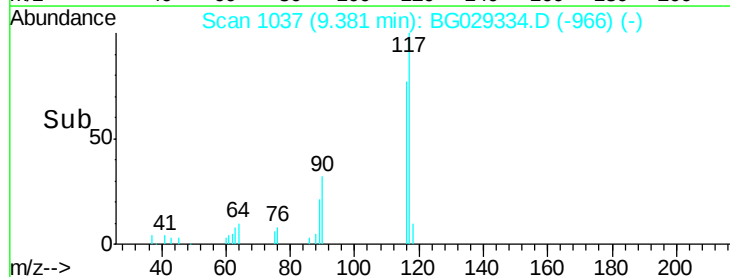
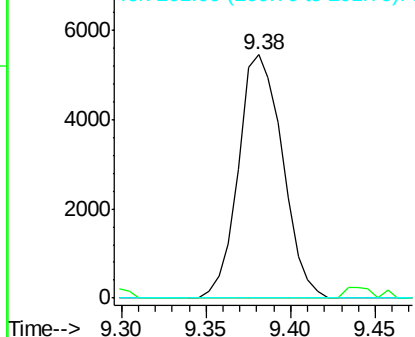


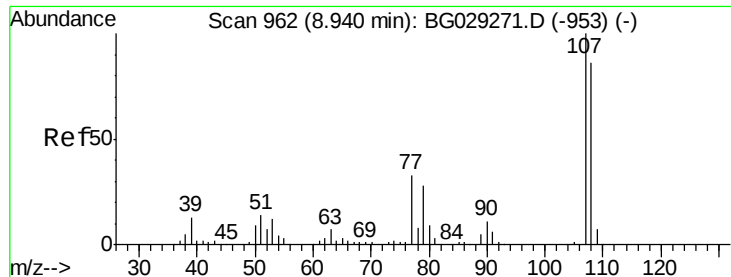
#18
Hexachloroethane
Concen: 5.545 ng
RT: 9.38 min Scan# 1037
Delta R.T. 0.12 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:117 Resp: 9883
Ion Ratio Lower Upper
117 100
119 0.0 76.7 115.1#
201 0.0 95.7 143.5#



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E

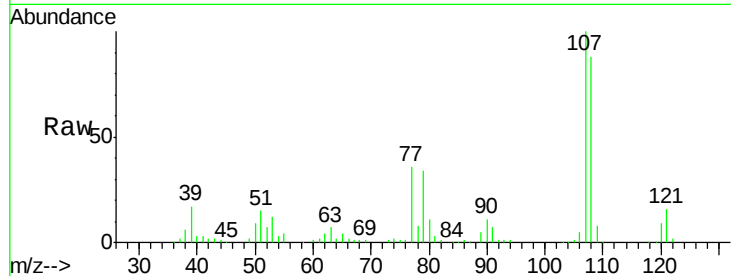




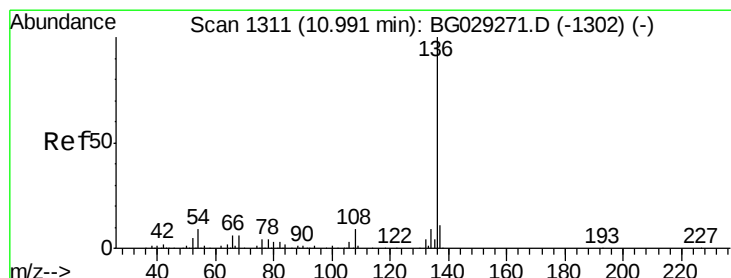
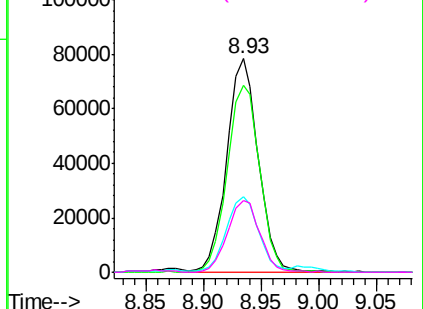
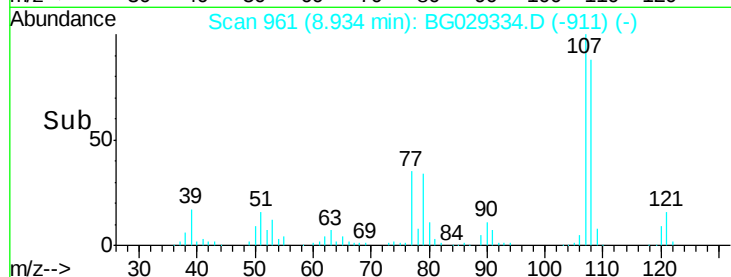
#20
3+4-Methylphenols
Concen: 26.377 ng
RT: 8.93 min Scan# 961
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

Tgt Ion:	107	Resp:	148721
Ion	Ratio	Lower	Upper
107	100		
108	87.8	61.6	101.6
77	35.6	13.9	53.9
79	33.5	8.8	48.8

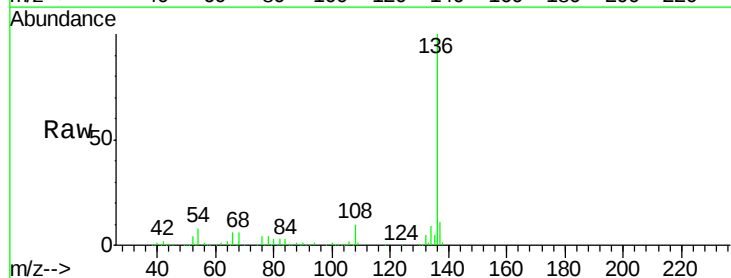


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BGC
Ion 79.00 (78.70 to 79.70): BGC

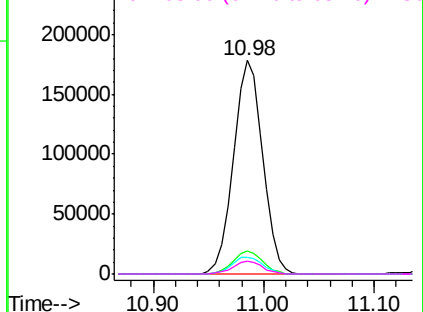
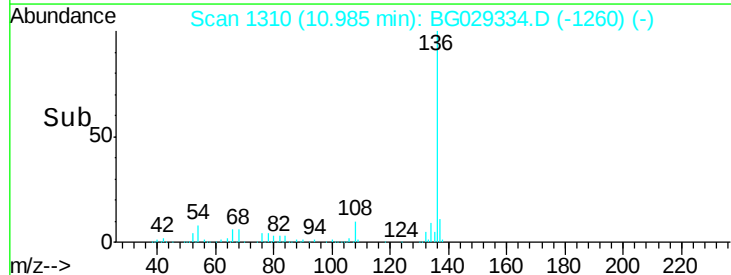


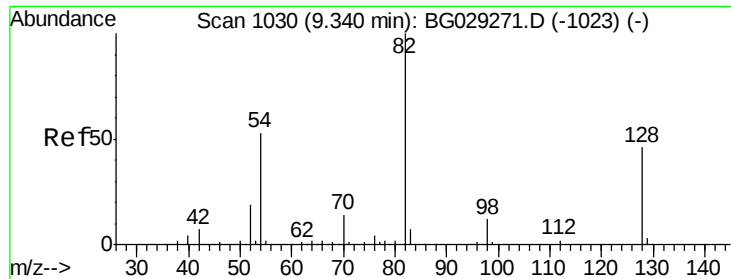
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.98 min Scan# 1310
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:	136	Resp:	330227
Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.2	13.8
54	7.8	10.3	15.5#
68	6.0	4.5	6.7



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

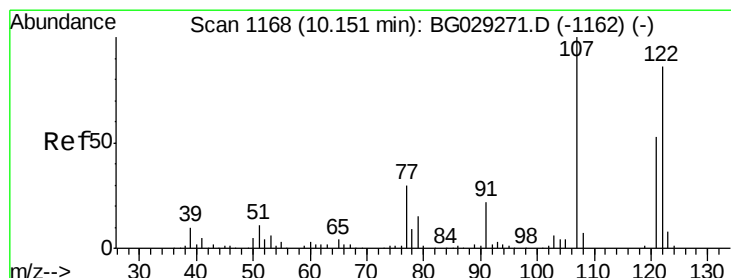
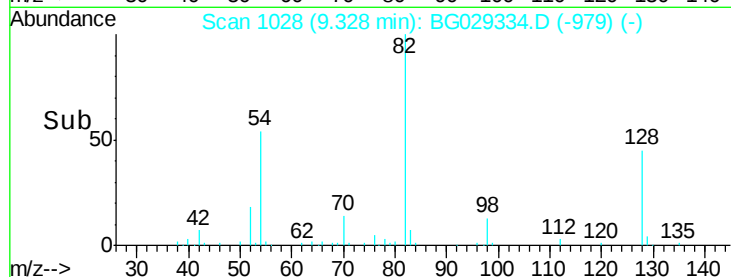
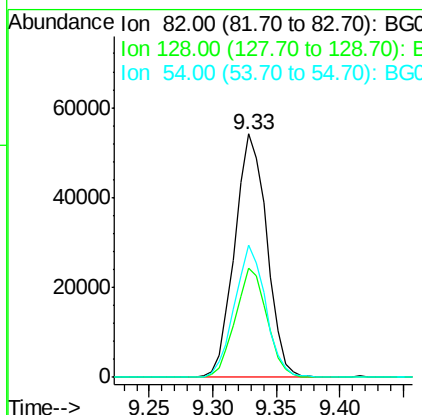
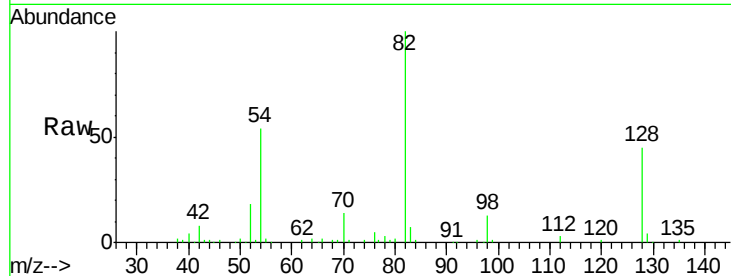




#23
 Nitrobenzene-d5
 Concen: 18.332 ng
 RT: 9.33 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BG029334.D
 Acq: 18 Oct 2017 15:08

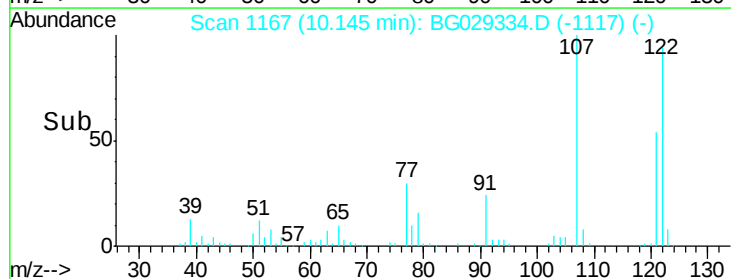
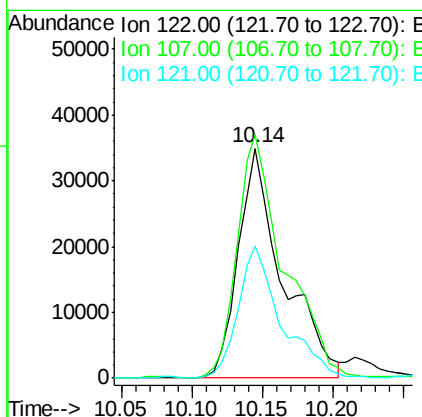
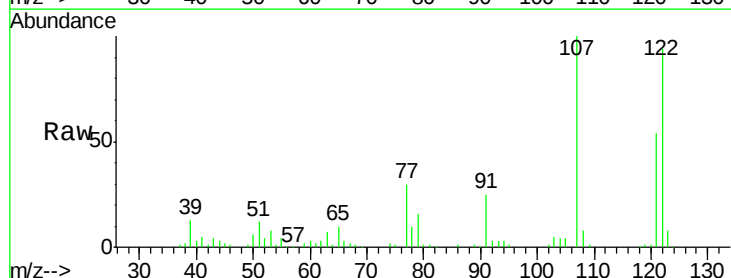
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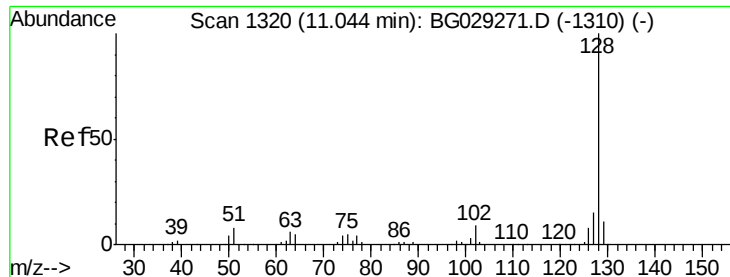
Tgt Ion: 82 Resp: 95261
 Ion Ratio Lower Upper
 82 100
 128 44.8 29.7 44.5#
 54 54.3 43.1 64.7



#27
 2,4-Dimethylphenol
 Concen: 15.164 ng
 RT: 10.14 min Scan# 1167
 Delta R.T. -0.01 min
 Lab File: BG029334.D
 Acq: 18 Oct 2017 15:08

Tgt Ion: 122 Resp: 76617
 Ion Ratio Lower Upper
 122 100
 107 105.8 100.2 150.2
 121 57.4 44.4 66.6

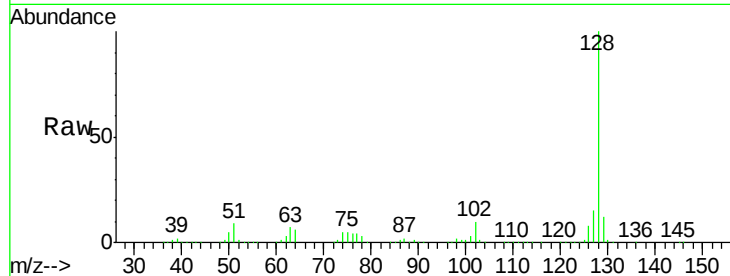




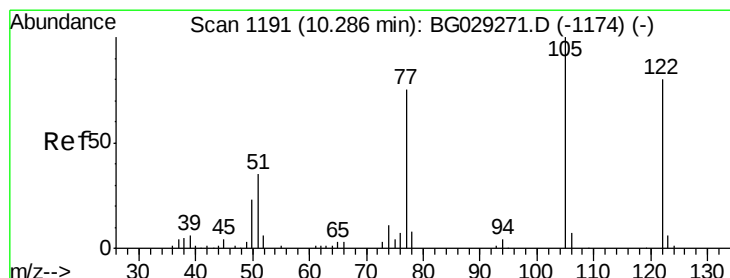
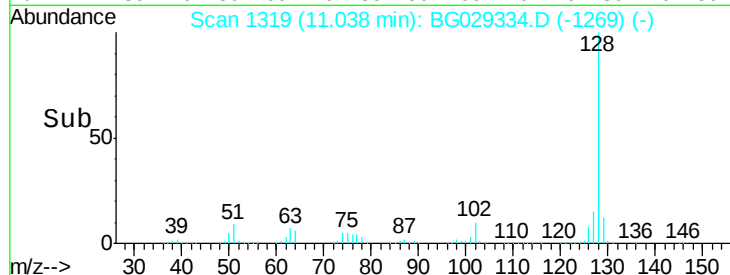
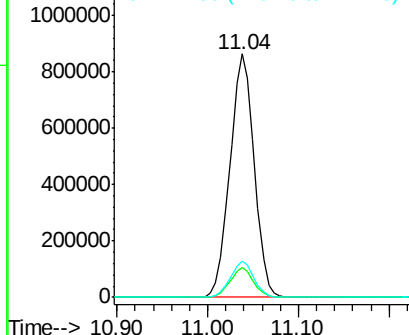
#31
Naphthalene
Concen: 97.232 ng
RT: 11.04 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

Tgt Ion:128 Resp: 1600237
Ion Ratio Lower Upper
128 100
129 12.2 8.6 12.8
127 15.0 11.6 17.4

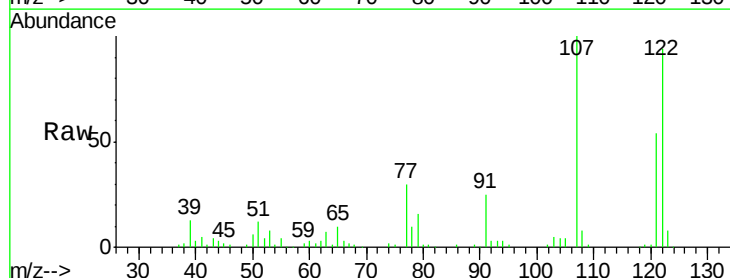


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

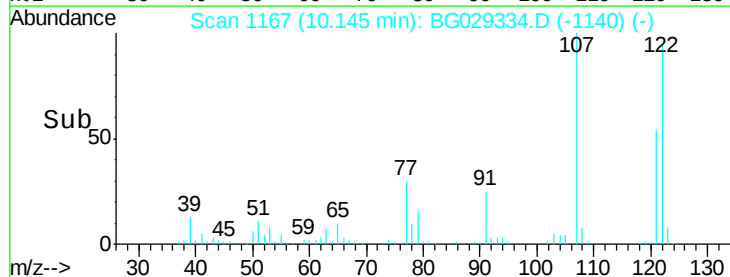
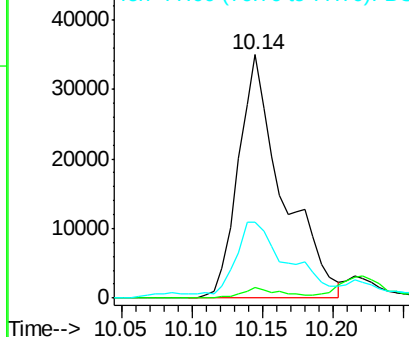


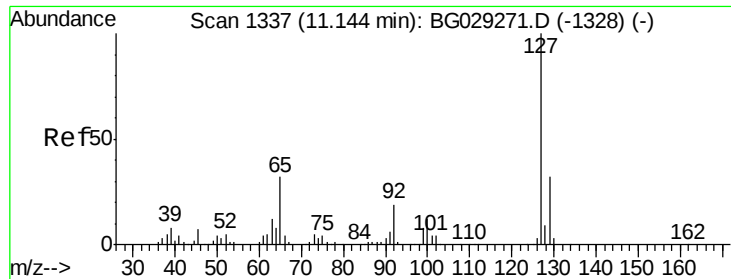
#32
Benzoic acid
Concen: 18.111 ng
RT: 10.14 min Scan# 1167
Delta R.T. -0.14 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:122 Resp: 76617
Ion Ratio Lower Upper
122 100
105 4.2 123.5 163.5#
77 31.2 85.7 125.7#



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BG

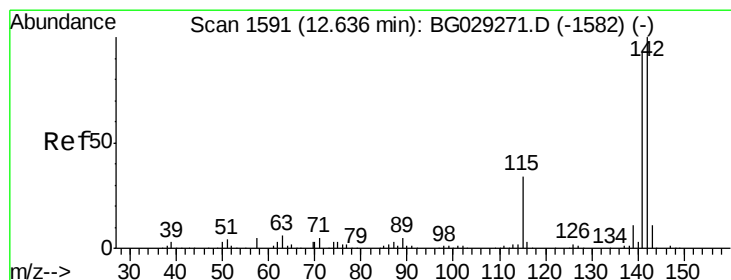
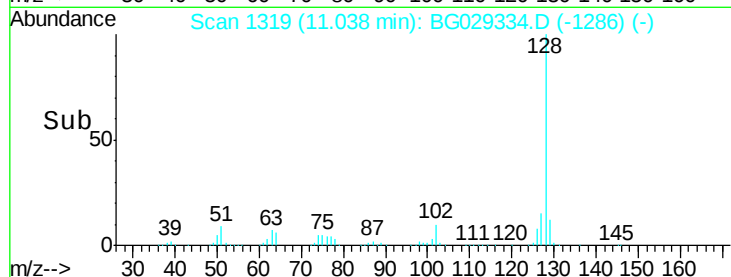
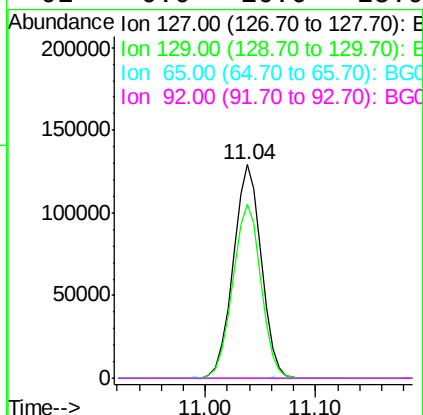
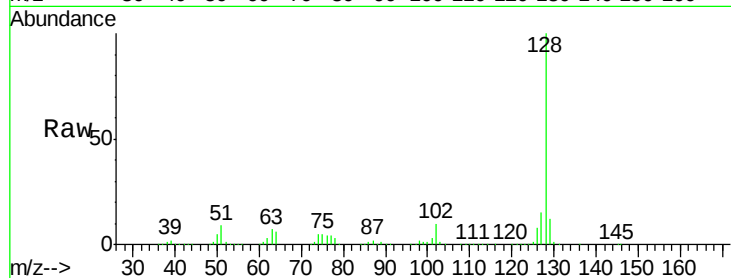




#33
4-Chloroaniline
Concen: 33.323 ng
RT: 11.04 min Scan# 1319
Delta R.T. -0.11 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

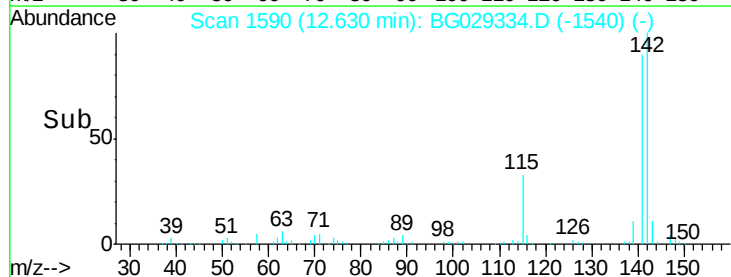
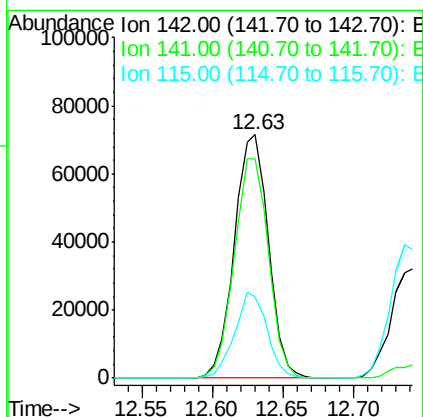
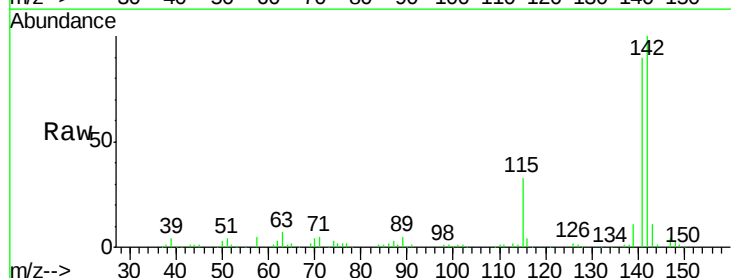
Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

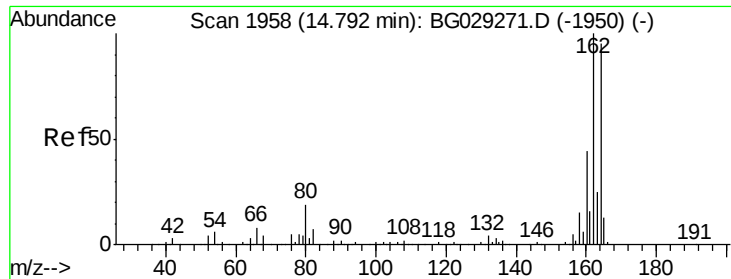
Tgt Ion:	127	Resp:	230694
Ion	Ratio	Lower	Upper
127	100		
129	81.8	24.0	36.0#
65	0.0	27.0	40.4#
92	0.0	16.6	25.0#



#37
2-Methylnaphthalene
Concen: 10.026 ng
RT: 12.63 min Scan# 1590
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:	142	Resp:	120260
Ion	Ratio	Lower	Upper
142	100		
141	89.9	67.1	100.7
115	33.4	30.7	46.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.79 min Scan# 1957

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

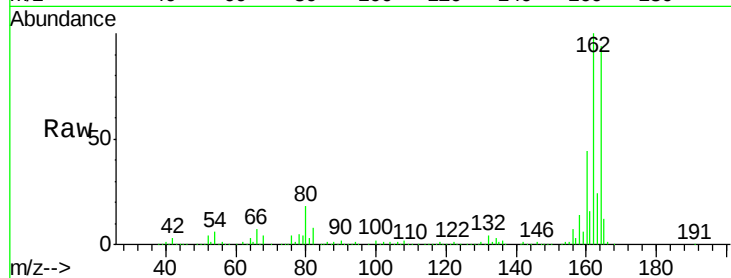
Tgt Ion:164 Resp: 208269

Ion Ratio Lower Upper

164 100

162 106.5 78.8 118.2

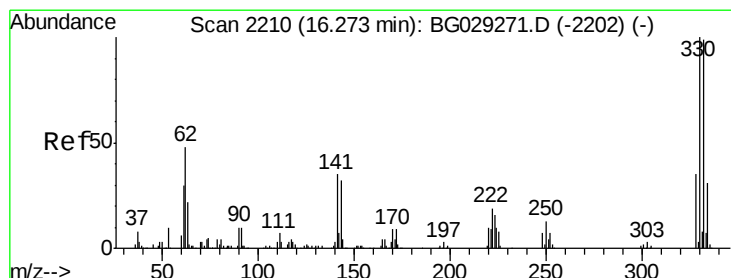
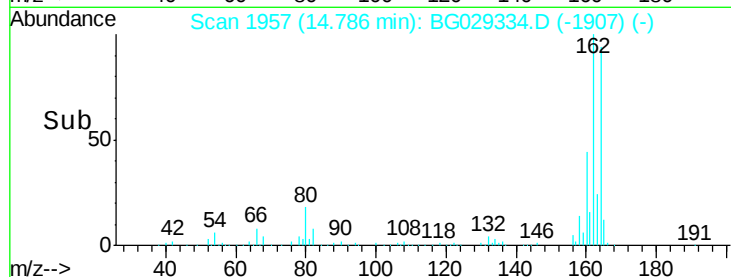
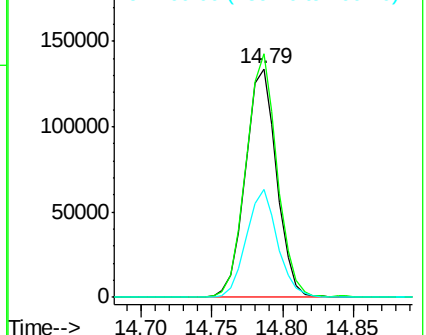
160 47.0 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 25.340 ng

RT: 16.27 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

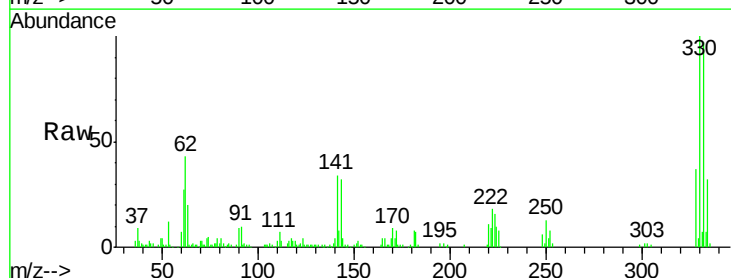
Tgt Ion:330 Resp: 68139

Ion Ratio Lower Upper

330 100

332 98.0 77.0 115.6

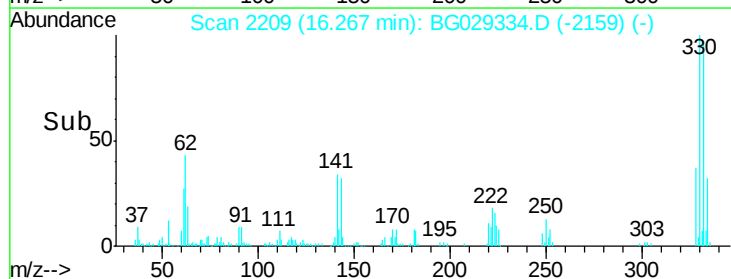
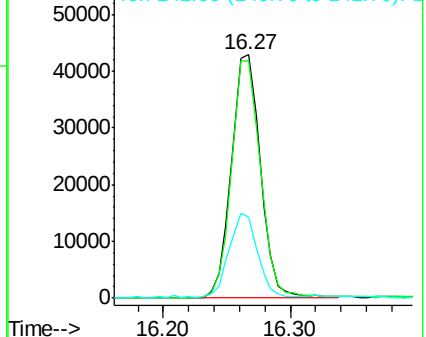
141 34.4 25.2 37.8

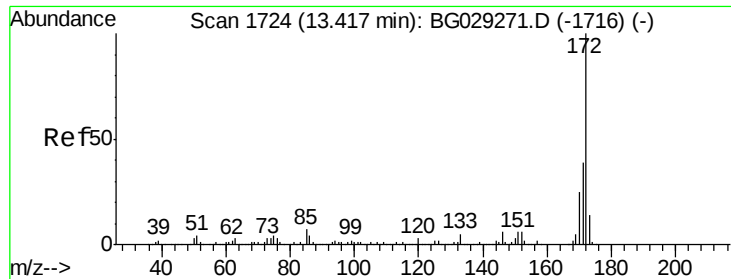


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

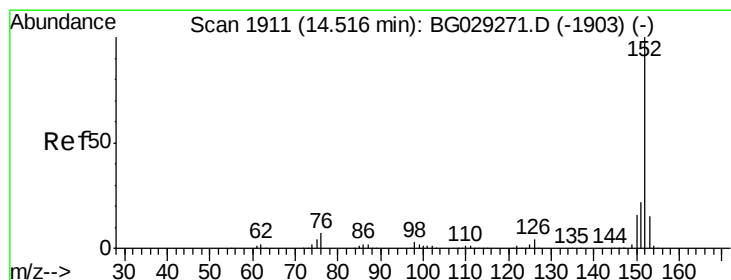
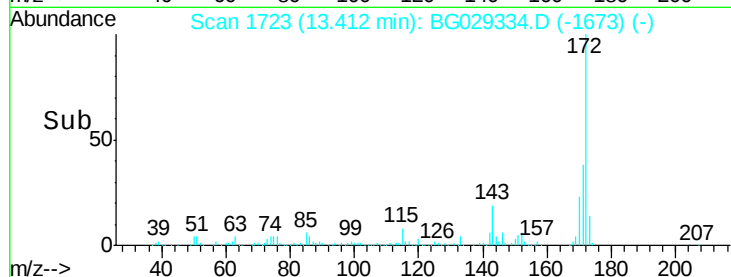
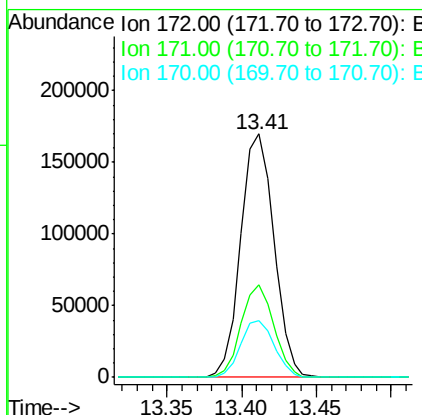
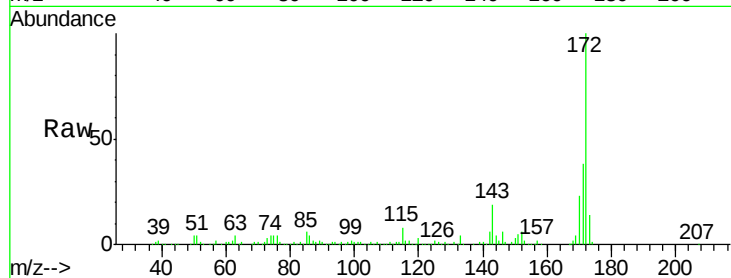




#44
2-Fluorobiphenyl
Concen: 18.546 ng
RT: 13.41 min Scan# 1723
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

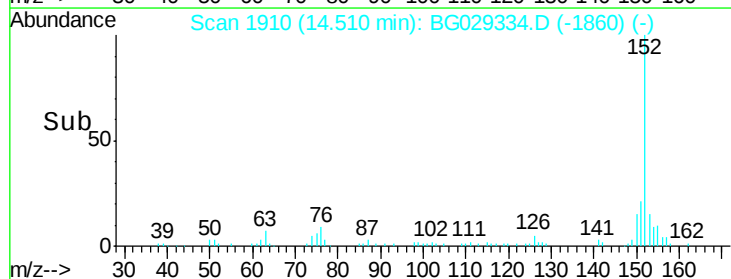
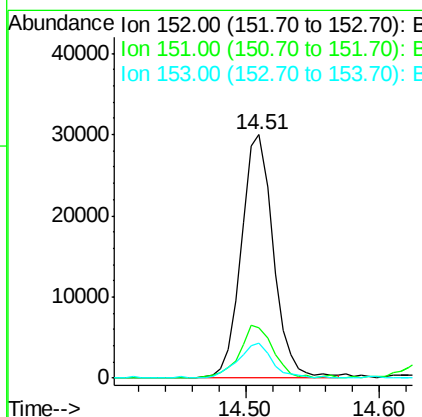
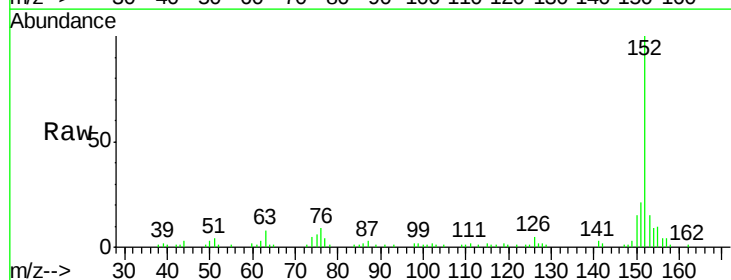
Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

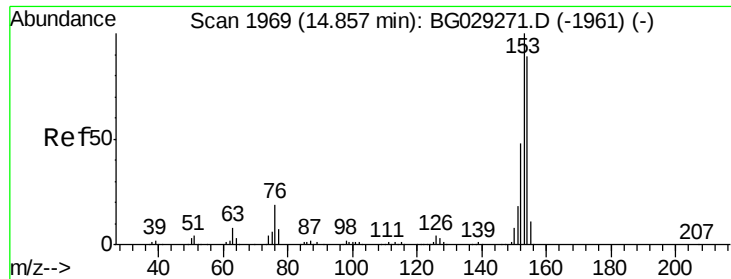
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.8	30.0	45.0
170	23.4	19.5	29.3



#48
Acenaphthylene
Concen: 2.440 ng
RT: 14.51 min Scan# 1910
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.2	25.8
153	14.6	10.2	15.4





#51

Acenaphthene

Concen: 4.613 ng

RT: 14.85 min Scan# 1967

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

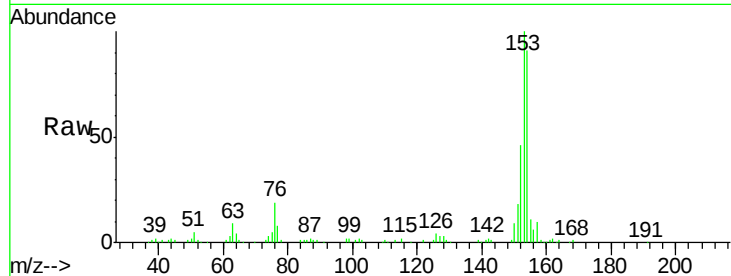
Tgt Ion:154 Resp: 61339

Ion Ratio Lower Upper

154 100

153 109.5 90.4 135.6

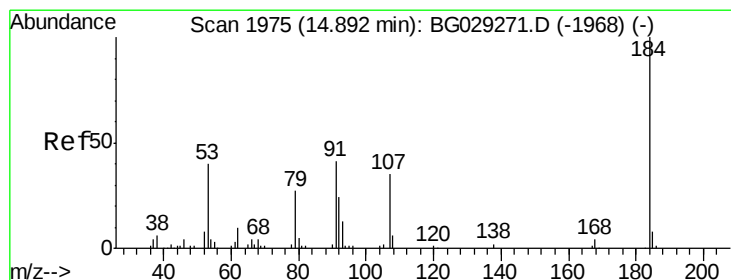
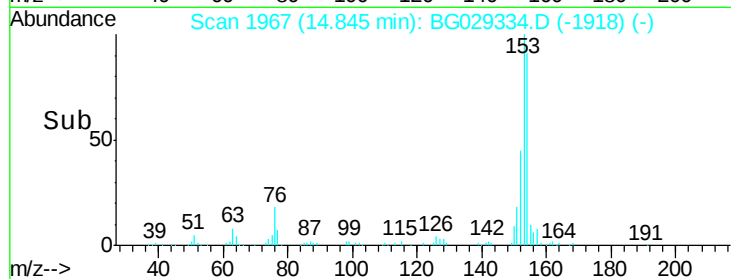
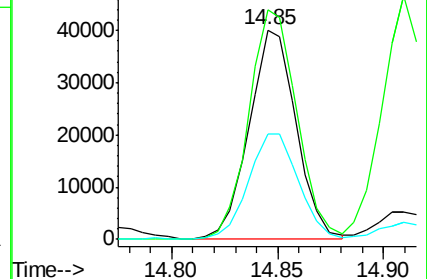
152 50.5 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

2,4-Dinitrophenol

Concen: 6.713 ng

RT: 14.97 min Scan# 1988

Delta R.T. 0.08 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

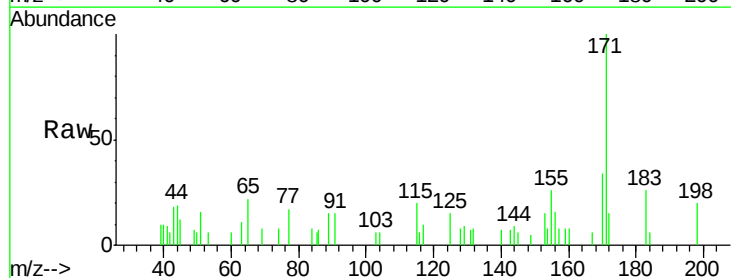
Tgt Ion:184 Resp: 168

Ion Ratio Lower Upper

184 100

63 191.0 59.8 89.8#

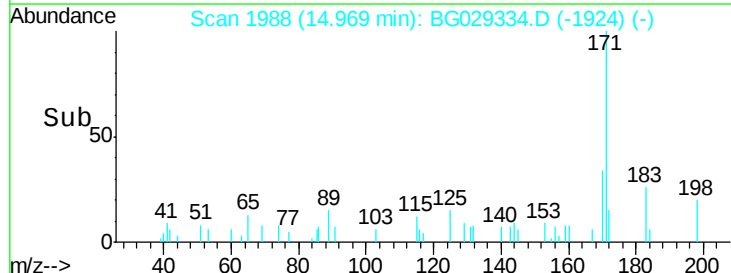
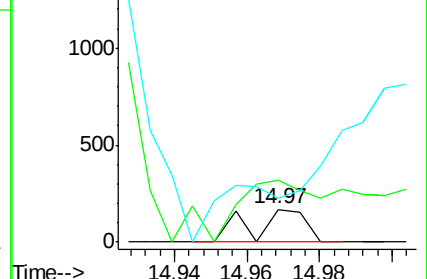
154 135.9 101.8 152.8

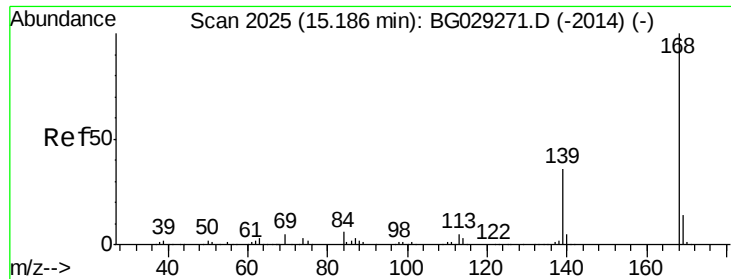


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 154.00 (153.70 to 154.70): E

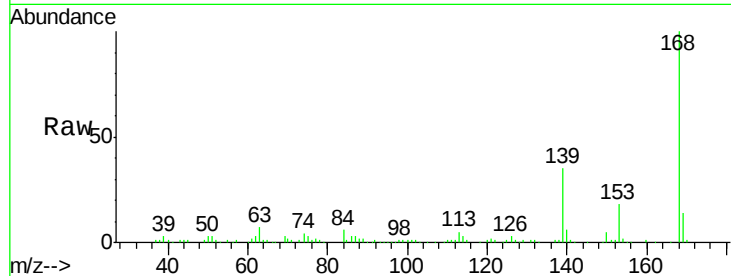




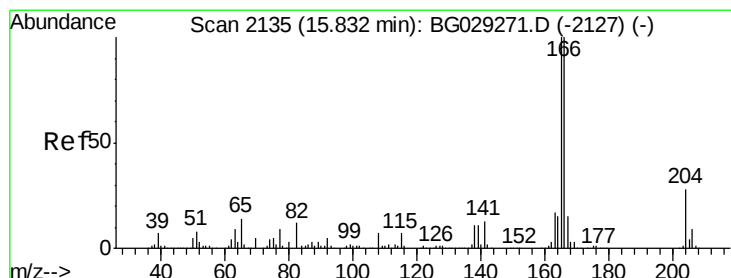
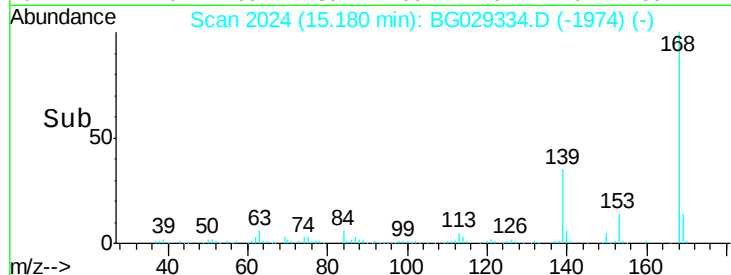
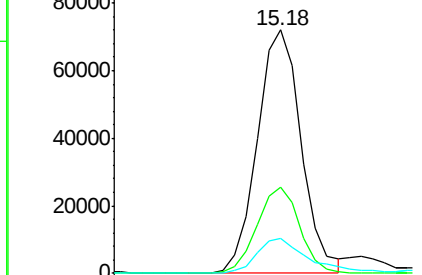
#54
Dibenzenofuran
Concen: 5.910 ng
RT: 15.18 min Scan# 2024
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Instrument :
BNA_G
ClientSampleId :
WH-TWS-05DL

Tgt Ion:168 Resp: 112186
Ion Ratio Lower Upper
168 100
139 35.5 28.6 43.0
169 14.3 11.2 16.8

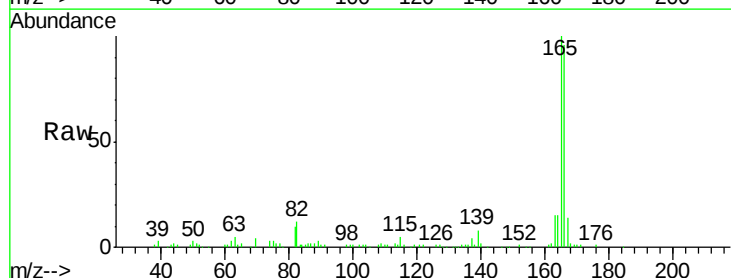


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

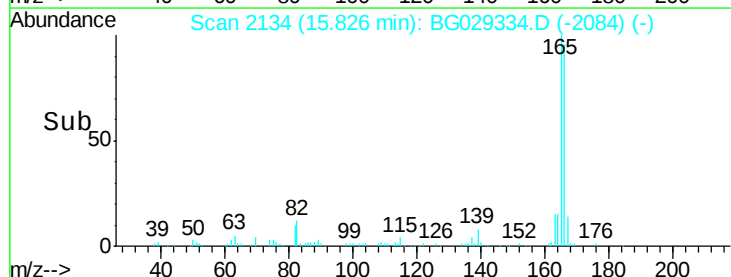
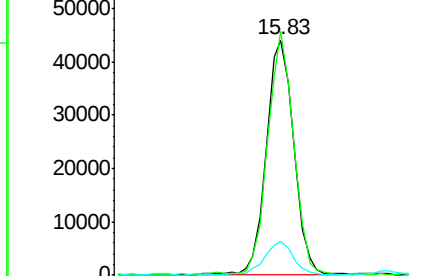


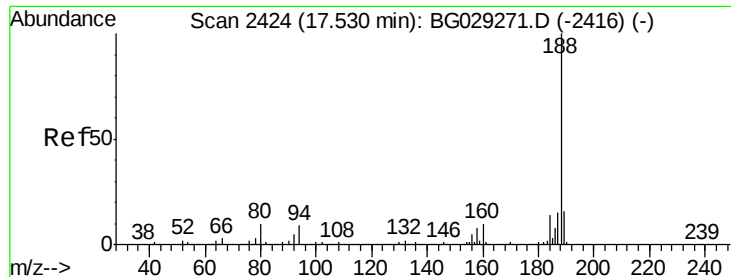
#57
Fluorene
Concen: 4.425 ng
RT: 15.83 min Scan# 2134
Delta R.T. -0.01 min
Lab File: BG029334.D
Acq: 18 Oct 2017 15:08

Tgt Ion:166 Resp: 69382
Ion Ratio Lower Upper
166 100
165 103.7 80.6 121.0
167 14.4 10.4 15.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.52 min Scan# 2423

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

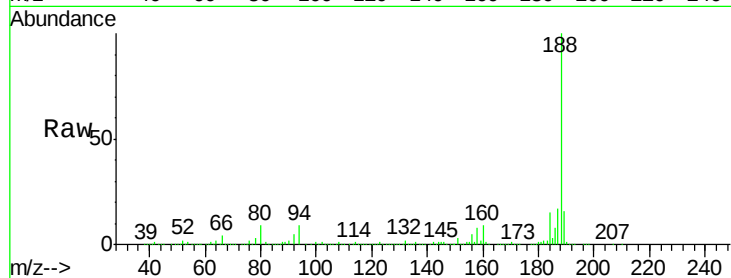
Tgt Ion:188 Resp: 463772

Ion Ratio Lower Upper

188 100

94 8.5 6.9 10.3

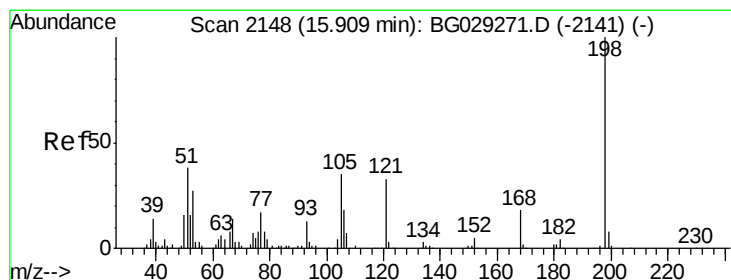
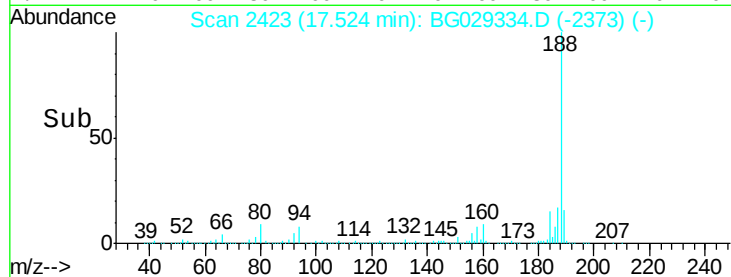
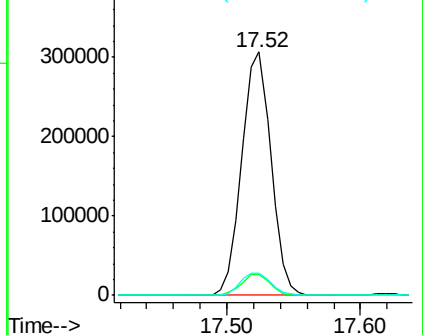
80 9.2 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#64

4,6-Dinitro-2-methylphenol

Concen: 5.147 ng

RT: 16.13 min Scan# 2186

Delta R.T. 0.22 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

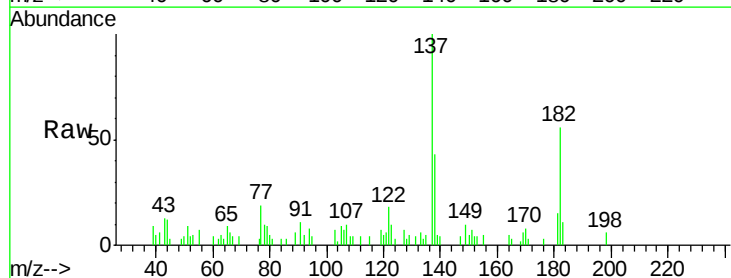
Tgt Ion:198 Resp: 433

Ion Ratio Lower Upper

198 100

51 144.4 30.6 70.6#

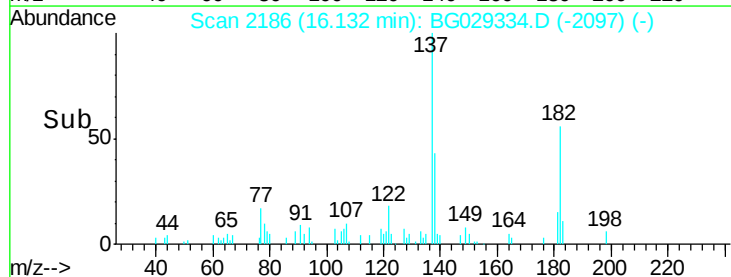
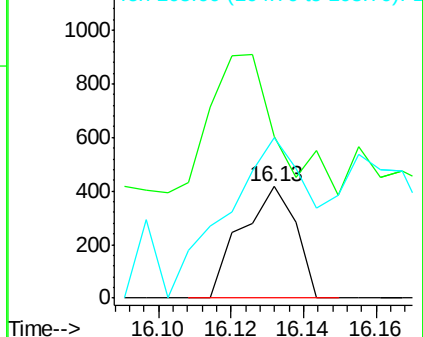
105 144.1 23.8 63.8#

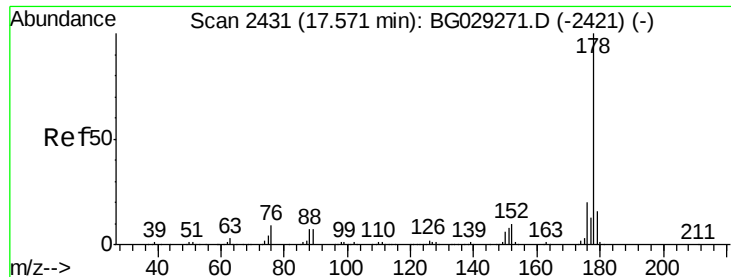


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 6.019 ng

RT: 17.57 min Scan# 2430

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

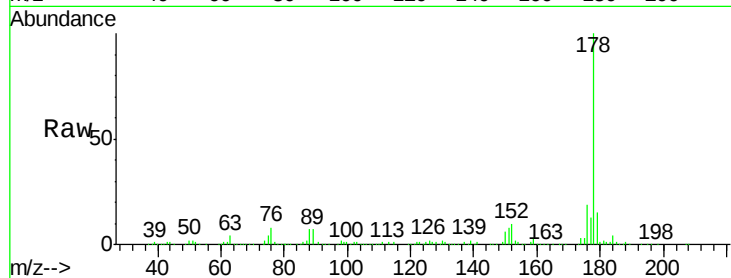
Tgt Ion:178 Resp: 144216

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

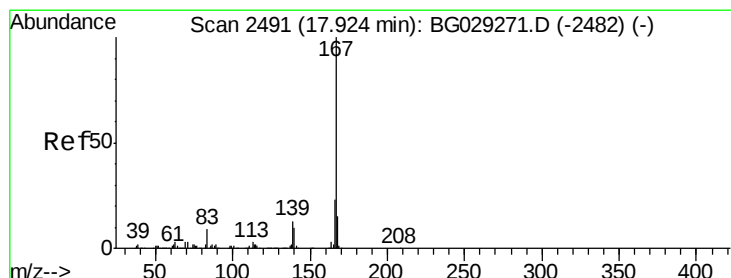
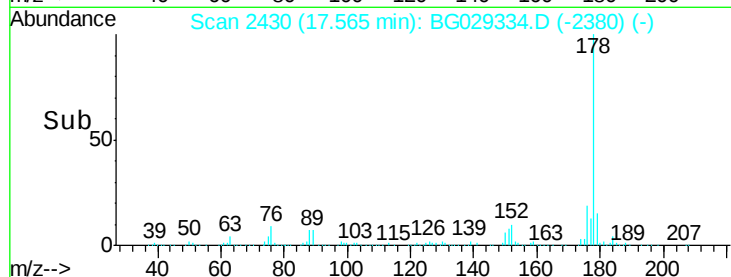
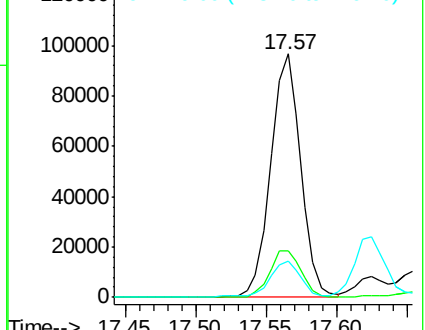
179 14.9 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 7.710 ng

RT: 17.92 min Scan# 2490

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

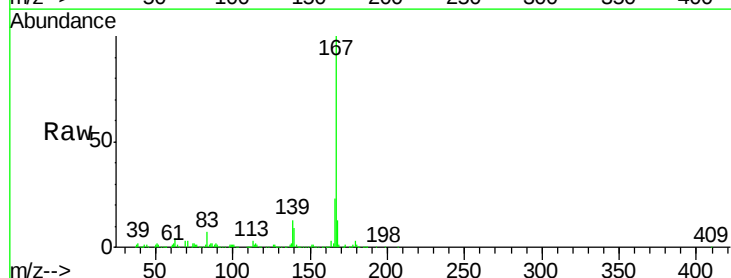
Tgt Ion:167 Resp: 178175

Ion Ratio Lower Upper

167 100

166 23.3 18.2 27.4

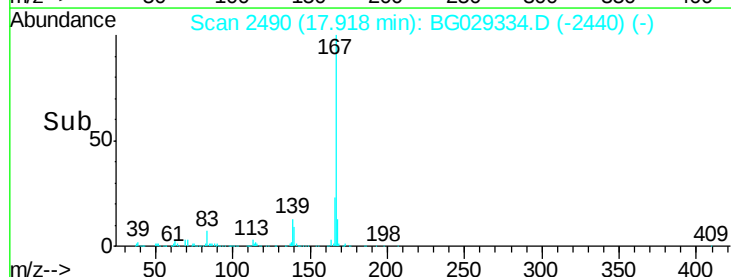
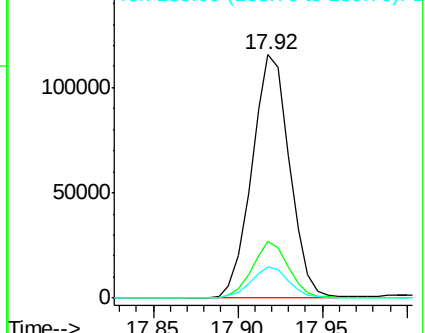
139 12.9 9.4 14.2

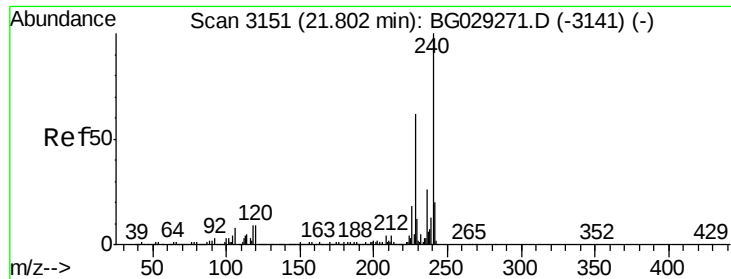


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.79 min Scan# 3149

Delta R.T. -0.01 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

Instrument :

BNA_G

ClientSampleId :

WH-TWS-05DL

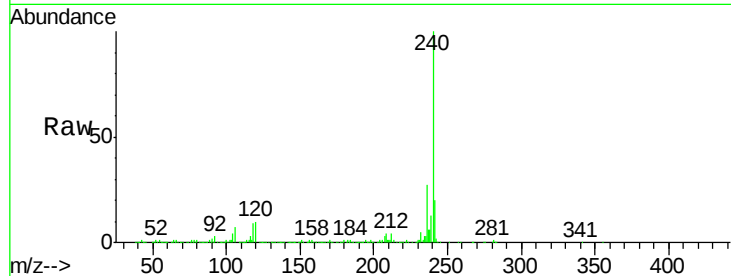
Tgt Ion:240 Resp: 503483

Ion Ratio Lower Upper

240 100

120 9.5 6.8 10.2

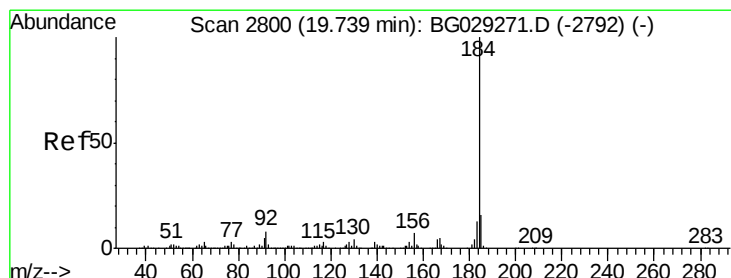
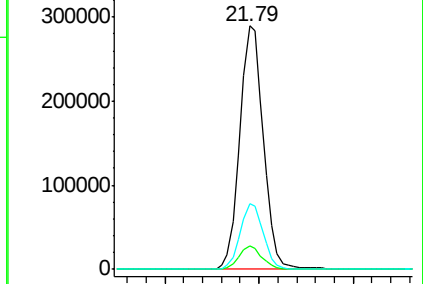
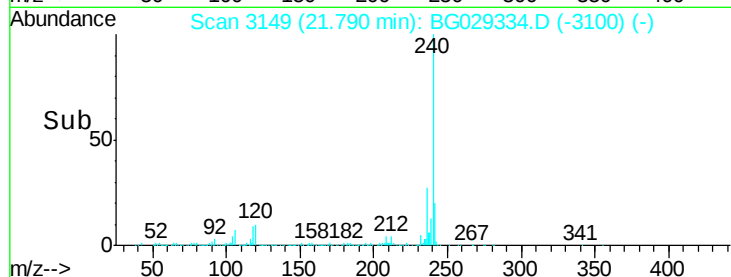
236 27.1 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.710 ng

RT: 19.83 min Scan# 2815

Delta R.T. 0.09 min

Lab File: BG029334.D

Acq: 18 Oct 2017 15:08

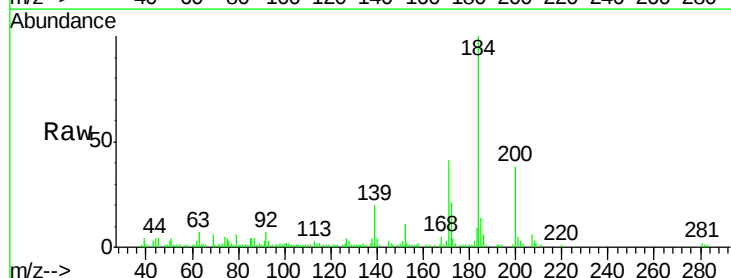
Tgt Ion:184 Resp: 41190

Ion Ratio Lower Upper

184 100

185 13.9 11.1 16.7

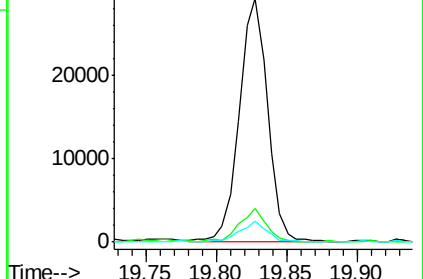
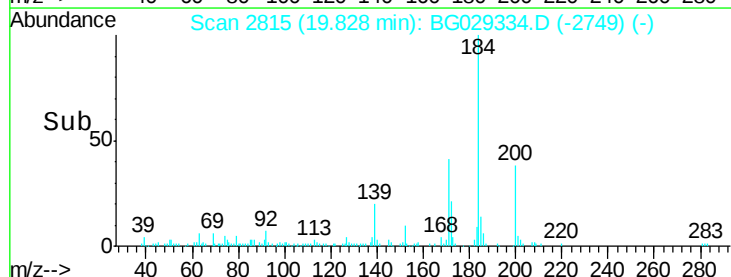
183 8.8 10.6 16.0#

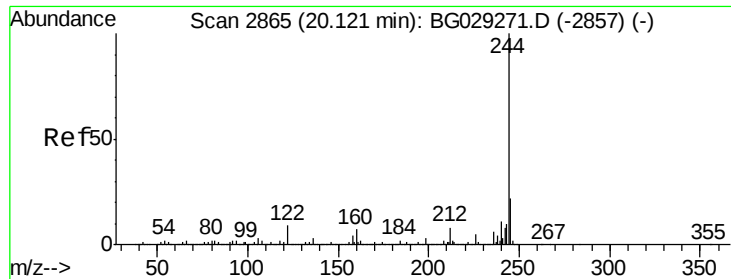


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

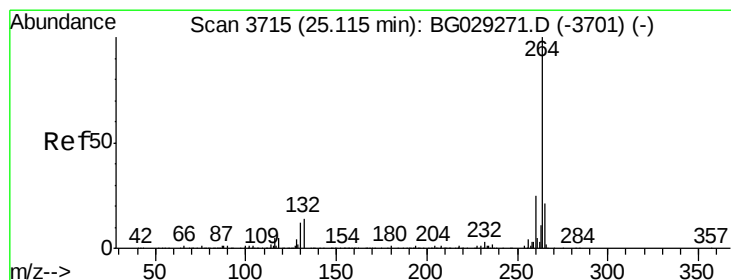
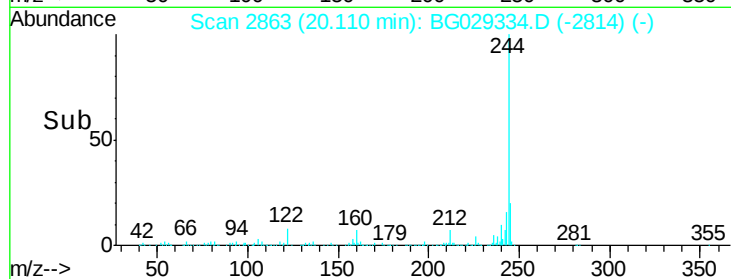
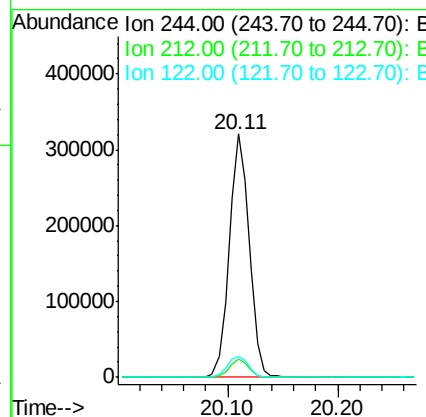
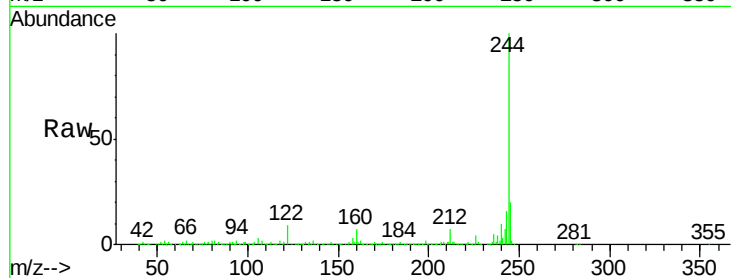




#78
 Terphenyl-d14
 Concen: 18.340 ng
 RT: 20.11 min Scan# 2863
 Delta R.T. -0.01 min
 Lab File: BG029334.D
 Acq: 18 Oct 2017 15:08

Instrument :
 BNA_G
 ClientSampleId :
 WH-TWS-05DL

Tgt Ion:244 Resp: 405902
 Ion Ratio Lower Upper
 244 100
 212 7.4 5.8 8.8
 122 8.5 7.0 10.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 25.10 min Scan# 3713
 Delta R.T. -0.01 min
 Lab File: BG029334.D
 Acq: 18 Oct 2017 15:08

Tgt Ion:264 Resp: 501037
 Ion Ratio Lower Upper
 264 100
 260 25.2 17.4 26.0
 265 21.7 17.7 26.5

