

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG012617\
 Data File : BG025669.D
 Acq On : 26 Jan 2017 16:36
 Operator : SJ/MA
 Sample : I1387-03DL 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA9Q7DL

Quant Time: Jan 27 03:38:20 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG011817.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jan 27 03:32:12 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.34	152	329	20.00	ng/ul	0.17
18) Naphthalene-d8	11.00	136	297997	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.81	164	231993	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.56	188	508745	20.00	ng/ul	0.00
75) Chrysene-d12	21.85	240	623893	20.00	ng/ul	0.00
83) Perylene-d12	25.24	264	624270	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.59	96	93	14.14	ng/uL	0.08
5) Phenol-d5	7.50	99	14779	524.12	ng/ul	0.16
7) Bis-(2-Chloroethyl)ether-d	7.66	67	932	51.18	ng/ul	0.16
9) 2-Chlorophenol-d4	7.85	132	67	3.37	ng/ul	0.15
13) 4-Methylphenol-d8	9.08	113	165	6.88	ng/ul	0.18
19) Nitrobenzene-d5	9.37	128	8048	3.81	ng/ul	0.00
22) 2-Nitrophenol-d4	10.10	143	10259	4.07	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.65	165	15275	3.07	ng/ul	0.02
29) 4-Chloroaniline-d4	11.16	131	629	0.11	ng/ul	0.01
43) Dimethylphthalate-d6	14.21	166	68901	4.21	ng/ul	0.00
46) Acenaphthylene-d8	14.51	160	78138	4.42	ng/ul	0.00
51) 4-Nitrophenol-d4	15.02	143	406	0.18	ng/ul	-0.02
57) Fluorene-d10	15.79	176	61098	3.96	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.95	200	1091165	347.72	ng/ul	0.00
70) Anthracene-d10	17.56	188	508745	23.49	ng/ul	-0.10
76) Pyrene-d10	19.93	212	106316	4.10	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.01	264	105237	4.01	ng/ul	0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.63	88	538	69.28	ng/uL#	14
4) Benzaldehyde	7.43	77	349	17.97	ng/ul#	11
6) Phenol	7.52	94	79	2.67	ng/ul#	1
8) Bis(2-Chloroethyl)ether	7.75	93	181	8.55	ng/ul#	12
10) 2-Chlorophenol	7.90	128	74	3.76	ng/ul#	1
11) 2-Methylphenol	8.86	108	244	11.06	ng/ul	95
12) 2,2'-oxybis(1-Chloropropan	8.88	45	1072	26.67	ng/ul#	44
14) Acetophenone	9.17	105	750	20.03	ng/ul#	66
15) N-Nitroso-di-n-propylamine	9.17	70	260	11.60	ng/ul#	74
16) 4-Methylphenol	9.13	108	122	5.04	ng/ul#	1
17) Hexachloroethane	9.45	117	385	41.98	ng/ul#	20
21) Isophorone	9.91	82	51456	4.05	ng/ul	99
28) Naphthalene	11.05	128	1458547	106.01	ng/ul	97
34) 2-Methylnaphthalene	12.65	142	257740	22.95	ng/ul	97
38) 2,4,6-Trichlorophenol	13.34	196	238122	56.30	ng/ul	92
39) 2,4,5-Trichlorophenol	13.34	196	238122	53.69	ng/ul	96
40) 1,1'-Biphenyl	13.64	154	45121	3.14	ng/ul	92
49) Acenaphthene	14.87	153	74743	6.09	ng/ul	89
53) Dibenzofuran	15.21	168	122680	6.50	ng/ul	98
55) 2,3,4,6-Tetrachlorophenol	15.44	232	233738	49.81	ng/ul#	99
58) Fluorene	15.85	166	69544	4.51	ng/ul	97
63) 4,6-Dinitro-2-methylphenol	15.95	198	2961502	915.47	ng/ul#	54
68) Pentachlorophenol	17.22	266	1805833	647.02	ng/ul	94

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Response via : Initial Calibration

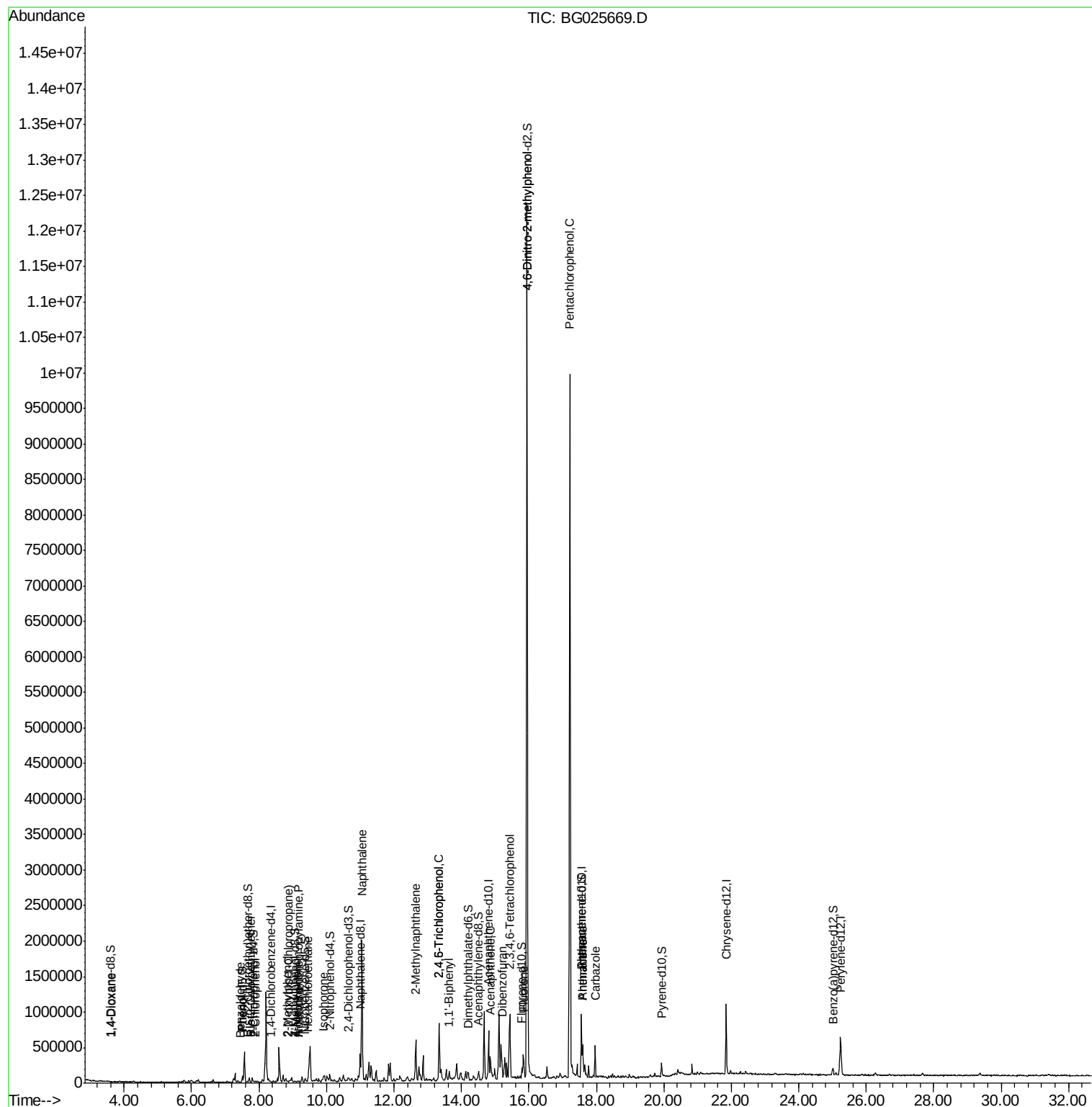
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Phenanthrene	17.60	178	186190	7.53	ng/ul	96
71) Anthracene	17.60	178	186267	7.49	ng/ul	97
72) Carbazole	17.97	167	284263	13.79	ng/ul	99

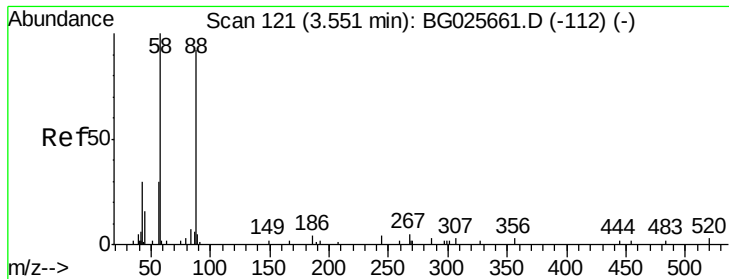
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

1,4-Dioxane

Concen: 69.28 ng/uL

RT: 3.63 min Scan# 134

Delta R.T. 0.08 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

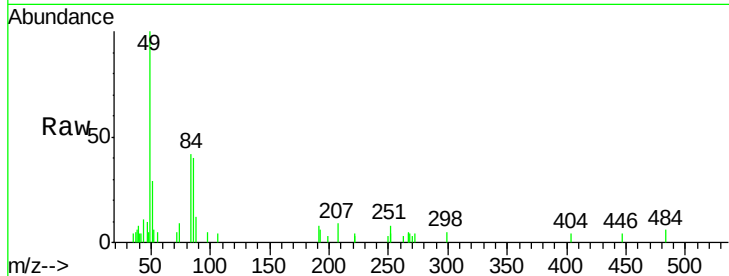
Tgt Ion: 88 Resp: 538

Ion Ratio Lower Upper

88 100

43 0.0 39.2 58.8#

58 0.0 69.4 104.0#

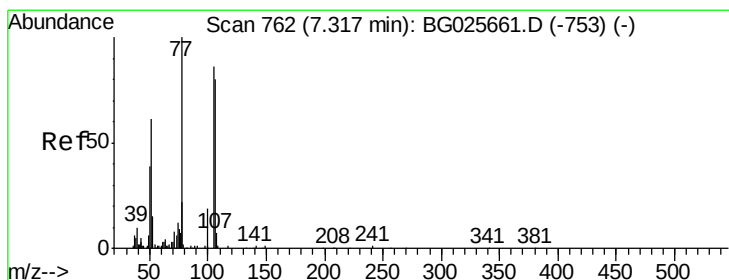
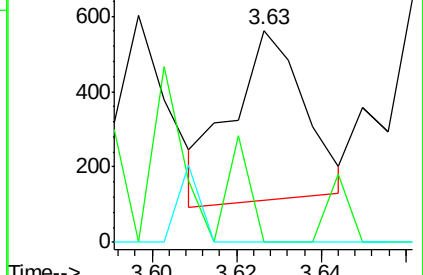
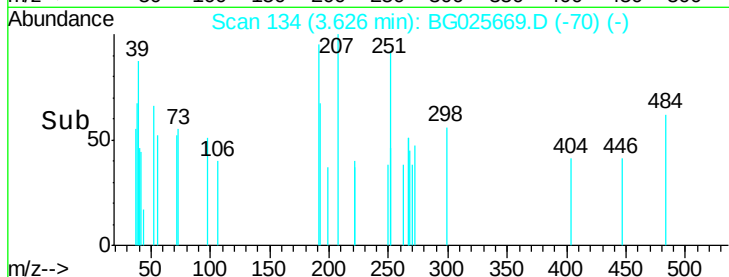


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 43.00 (42.70 to 43.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Time-->



#4

Benzaldehyde

Concen: 17.97 ng/uL

RT: 7.43 min Scan# 782

Delta R.T. 0.12 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

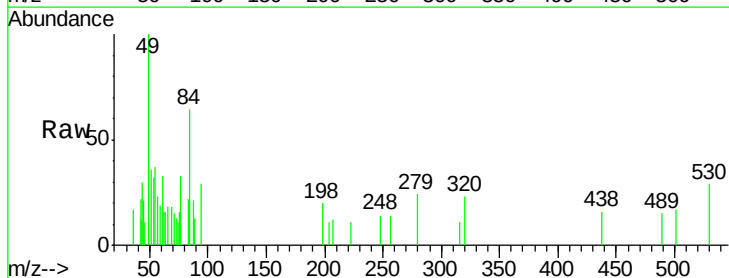
Tgt Ion: 77 Resp: 349

Ion Ratio Lower Upper

77 100

105 0.0 62.0 93.0#

106 0.0 60.2 90.4#

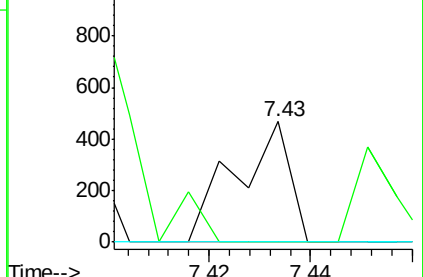
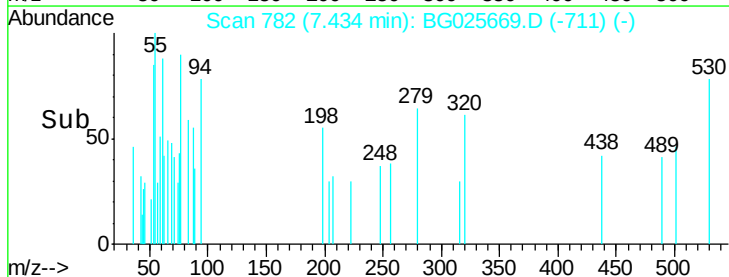


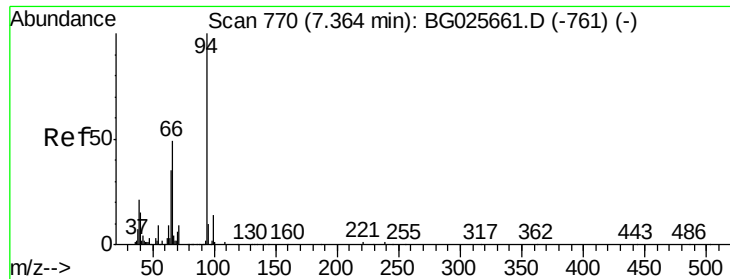
Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC

Time-->





#6

Phenol

Concen: 2.67 ng/ul

RT: 7.52 min Scan# 797

Delta R.T. 0.16 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

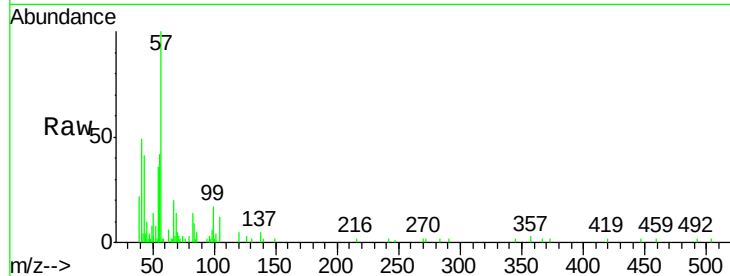
Tgt Ion: 94 Resp: 79

Ion Ratio Lower Upper

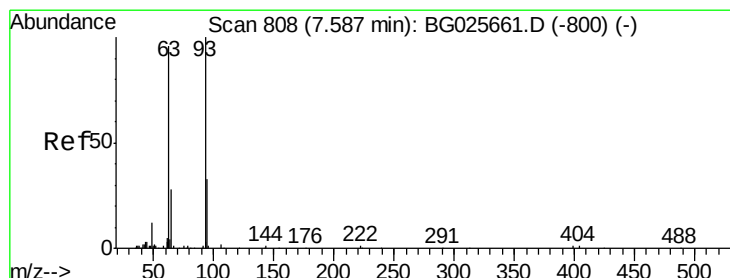
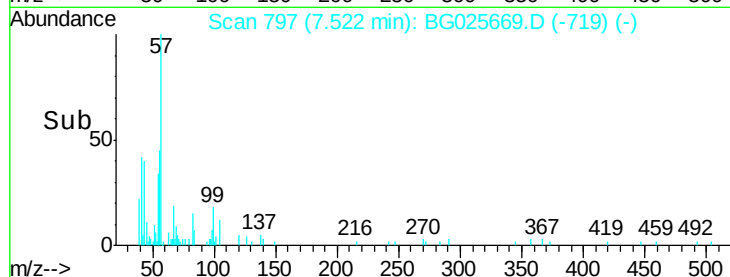
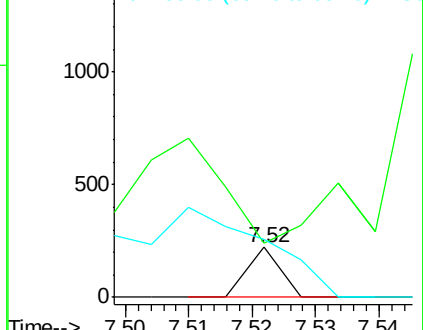
94 100

65 108.5 26.8 40.2#

66 115.2 44.4 66.6#



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



#8

Bis(2-Chloroethyl)ether

Concen: 8.55 ng/ul

RT: 7.75 min Scan# 836

Delta R.T. 0.16 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

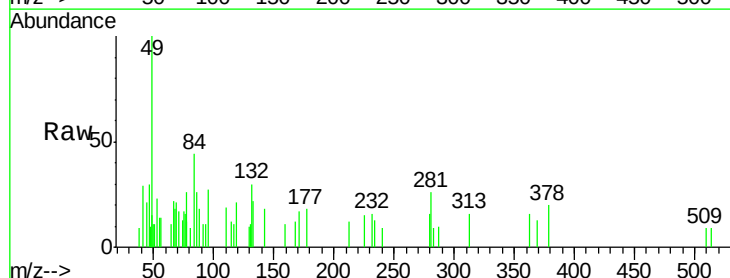
Tgt Ion: 93 Resp: 181

Ion Ratio Lower Upper

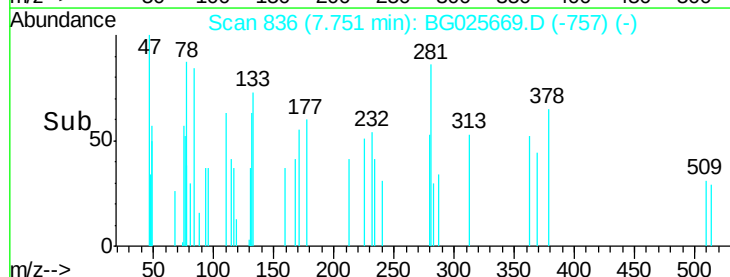
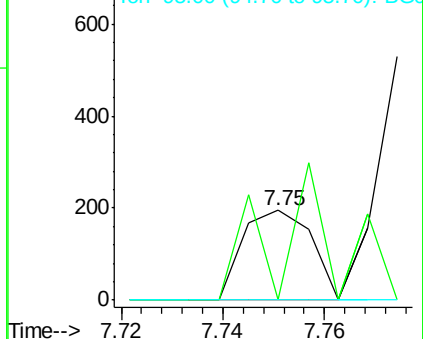
93 100

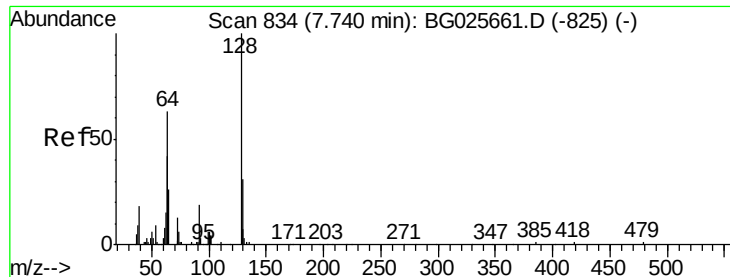
63 0.0 75.5 113.3#

95 0.0 29.2 43.8#



Abundance Ion 93.00 (92.70 to 93.70): BGC
Ion 63.00 (62.70 to 63.70): BGC
Ion 95.00 (94.70 to 95.70): BGC

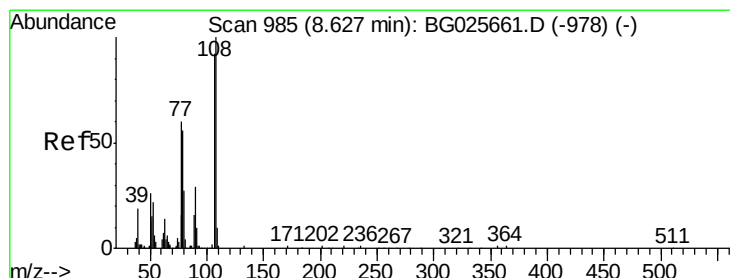
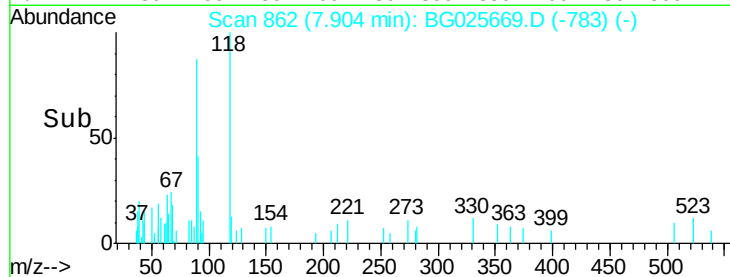
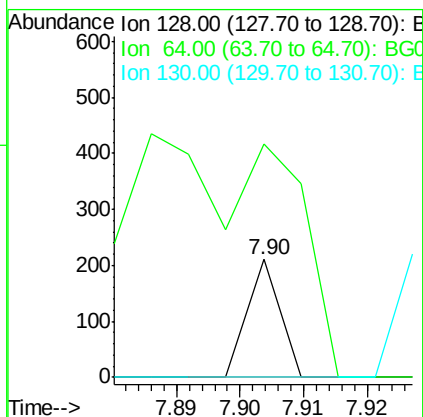
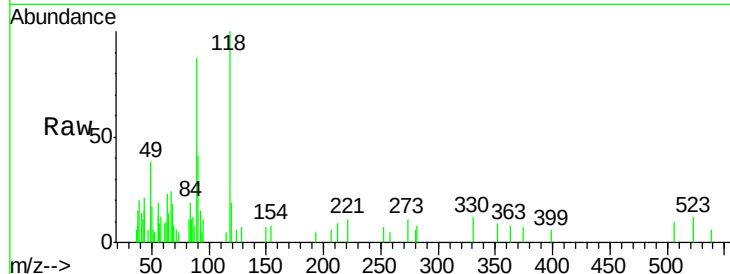




#10
2-Chlorophenol
Concen: 3.76 ng/ul
RT: 7.90 min Scan# 862
Delta R.T. 0.16 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

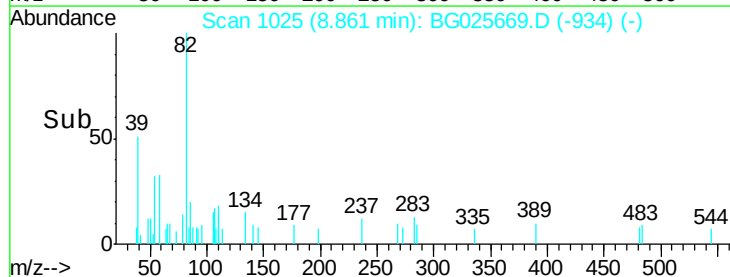
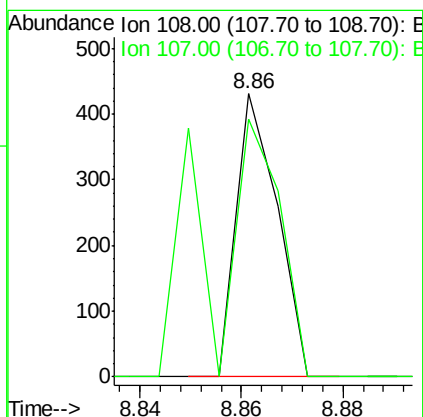
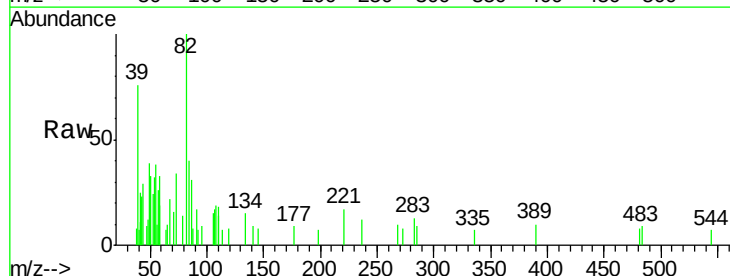
Instrument :
BNA_G
ClientSampleId :
DA9Q7DL

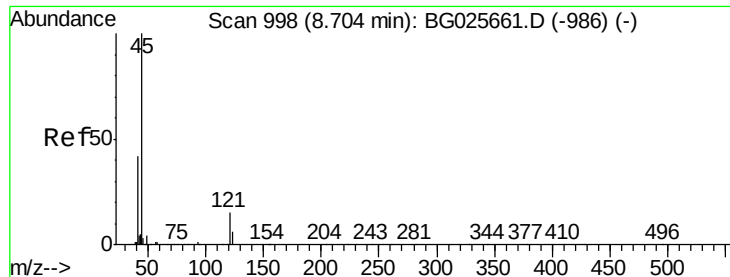
Tgt Ion:128 Resp: 74
Ion Ratio Lower Upper
128 100
64 198.1 56.3 84.5#
130 0.0 26.7 40.1#



#11
2-Methylphenol
Concen: 11.06 ng/ul
RT: 8.86 min Scan# 1025
Delta R.T. 0.23 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

Tgt Ion:108 Resp: 244
Ion Ratio Lower Upper
108 100
107 91.0 76.7 115.1





#12

2,2'-oxybis(1-Chloropropane)

Concen: 26.67 ng/ul

RT: 8.88 min Scan# 1028

Delta R.T. 0.18 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

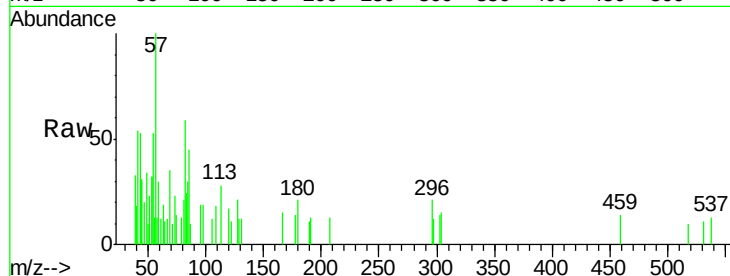
Tgt Ion: 45 Resp: 1072

Ion Ratio Lower Upper

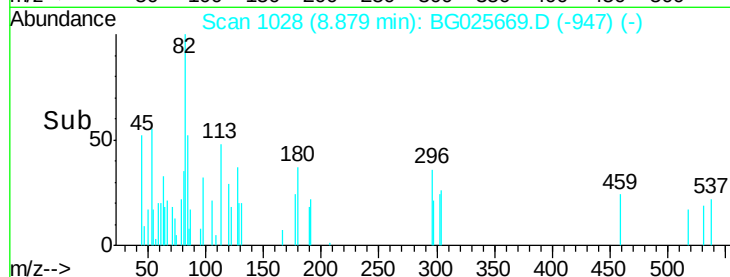
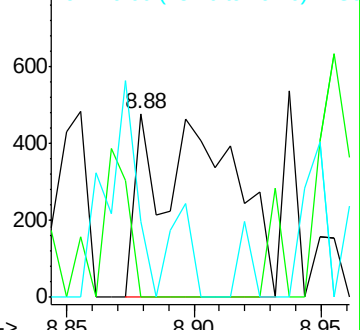
45 100

77 0.0 10.0 15.0#

79 41.4 7.3 10.9#



Abundance Ion 45.00 (44.70 to 45.70): BGC
Ion 77.00 (76.70 to 77.70): BGC
Ion 79.00 (78.70 to 79.70): BGC



#14

Acetophenone

Concen: 20.03 ng/ul

RT: 9.17 min Scan# 1078

Delta R.T. 0.16 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

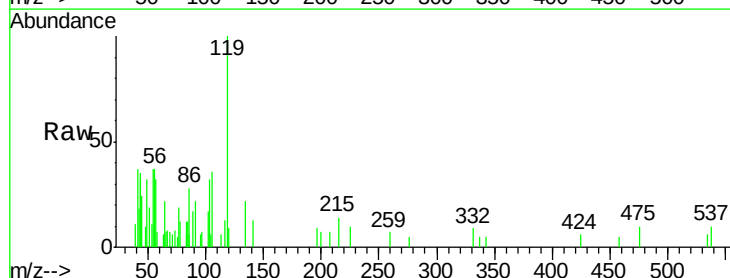
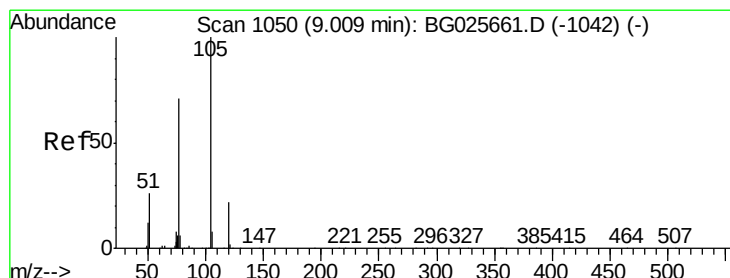
Tgt Ion: 105 Resp: 750

Ion Ratio Lower Upper

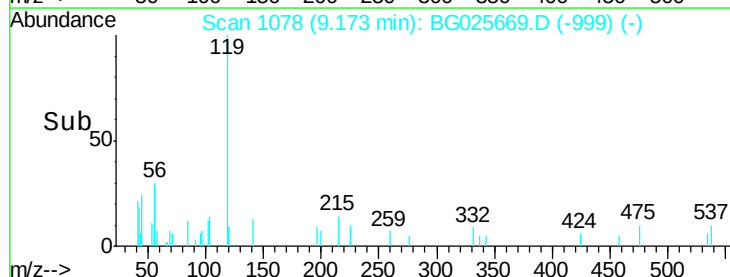
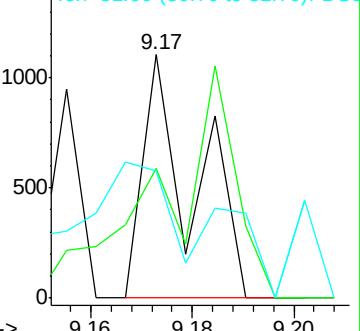
105 100

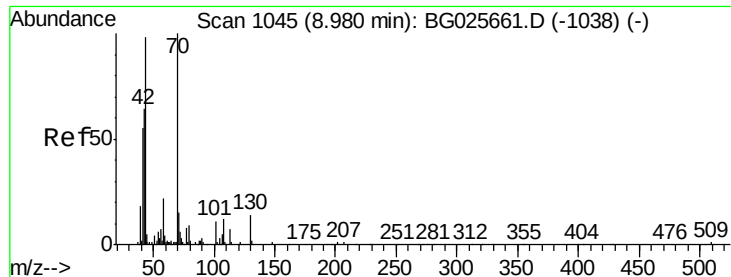
77 53.2 76.0 114.0#

51 52.1 34.8 52.2



Abundance Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BGC
Ion 51.00 (50.70 to 51.70): BGC

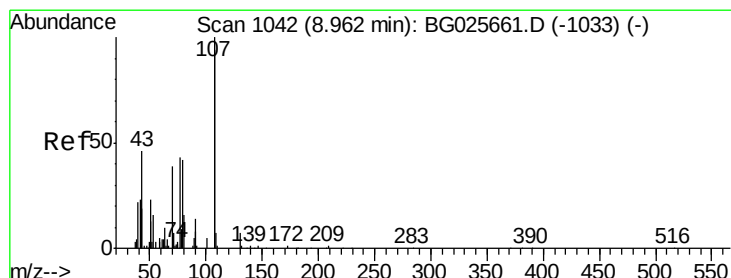
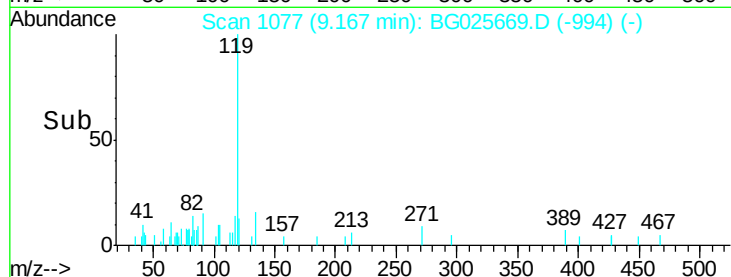
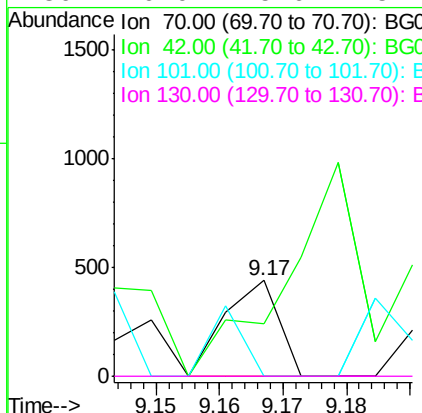
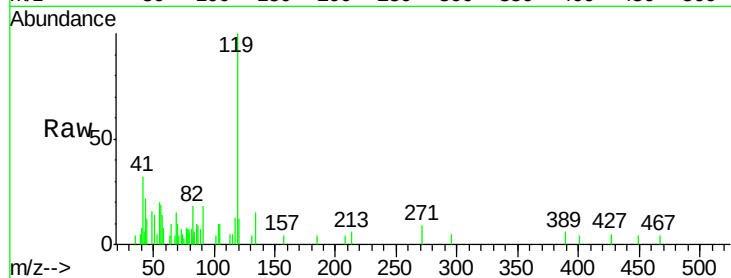




#15
N-Nitroso-di-n-propylamine
Concen: 11.60 ng/ul
RT: 9.17 min Scan# 1077
Delta R.T. 0.19 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

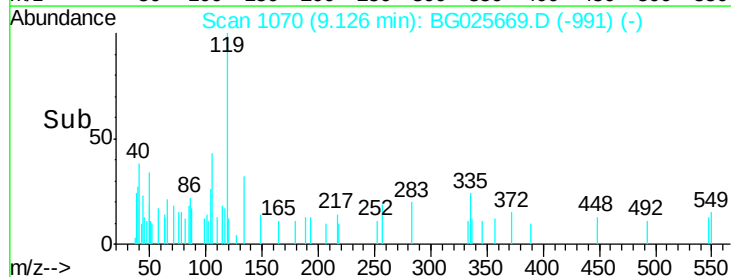
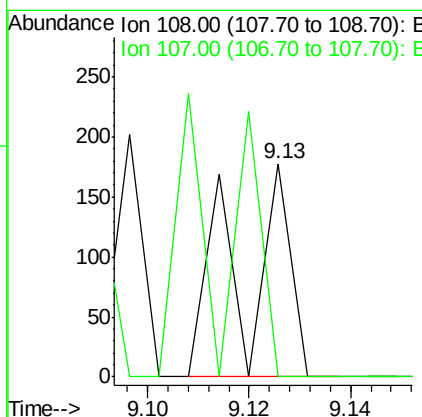
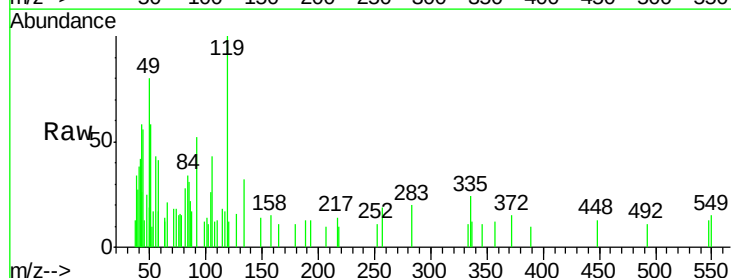
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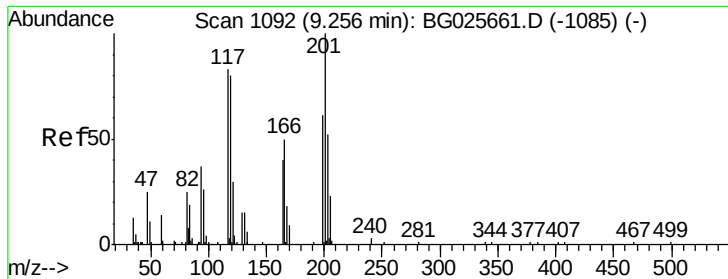
Tgt Ion:	70	Resp:	260
Ion	Ratio	Lower	Upper
70	100		
42	55.0	59.0	88.6#
101	0.0	6.6	9.8#
130	0.0	15.6	23.4#



#16
4-Methylphenol
Concen: 5.04 ng/ul
RT: 9.13 min Scan# 1070
Delta R.T. 0.16 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

Tgt Ion:	108	Resp:	122
Ion	Ratio	Lower	Upper
108	100		
107	0.0	91.7	137.5#





#17

Hexachloroethane

Concen: 41.98 ng/ul

RT: 9.45 min Scan# 1125

Delta R.T. 0.19 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

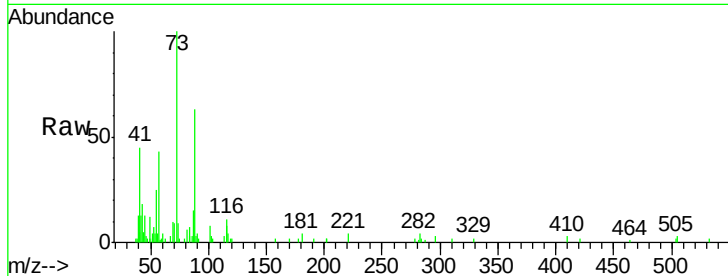
Tgt Ion:117 Resp: 385

Ion Ratio Lower Upper

117 100

201 35.8 91.9 137.9#

199 0.0 64.3 96.5#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

800

600

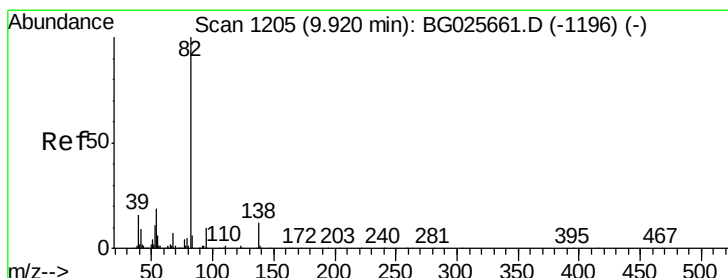
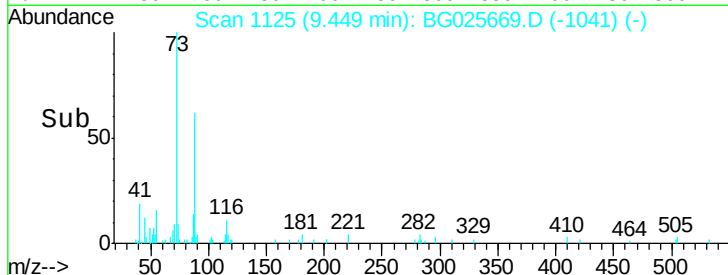
400

200

0

9.43 9.44 9.45 9.46

Time-->



#21

Isophorone

Concen: 4.05 ng/ul

RT: 9.91 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

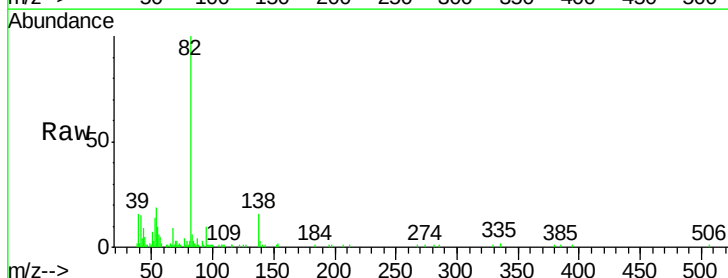
Tgt Ion: 82 Resp: 51456

Ion Ratio Lower Upper

82 100

95 9.7 7.8 11.6

138 16.1 12.2 18.2



Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

Ion 138.00 (137.70 to 138.70): E

30000

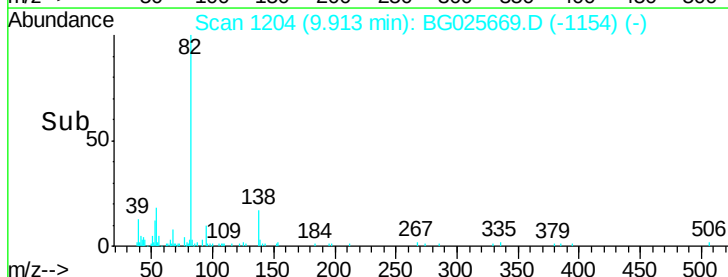
20000

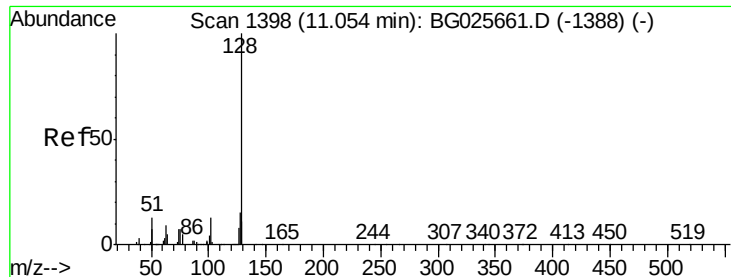
10000

0

9.85 9.90 9.95

Time-->





#28

Naphthalene

Concen: 106.01 ng/ul

RT: 11.05 min Scan# 1398

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

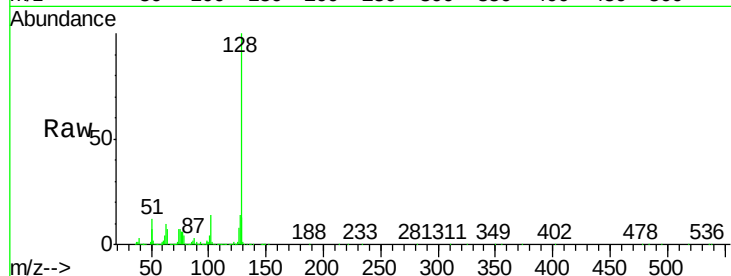
BNA_G

ClientSampleId :

DA9Q7DL

Tgt Ion:128 Resp: 1458547

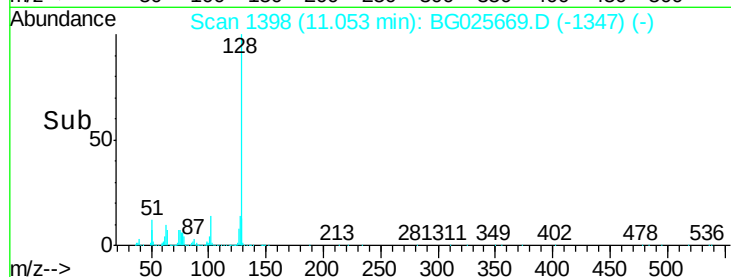
Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.4	14.2
127	14.5	10.3	15.5



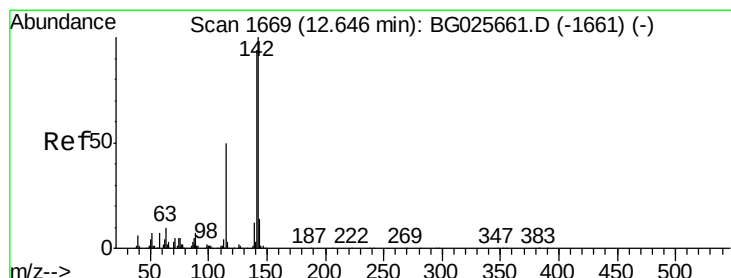
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time-->



#34

2-Methylnaphthalene

Concen: 22.95 ng/ul

RT: 12.65 min Scan# 1669

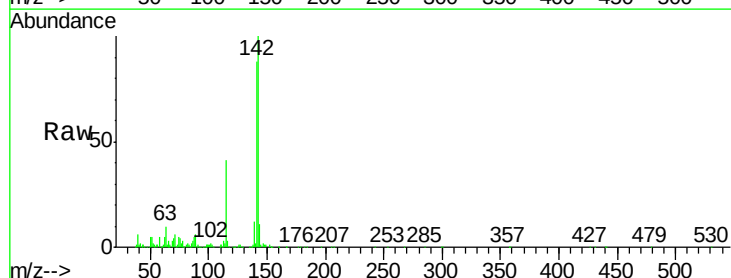
Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

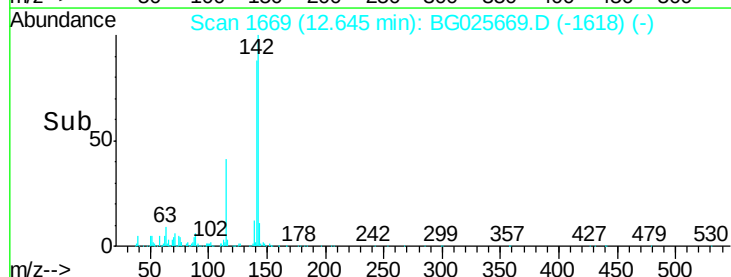
Tgt Ion:142 Resp: 257740

Ion	Ratio	Lower	Upper
142	100		
141	88.3	68.6	102.8

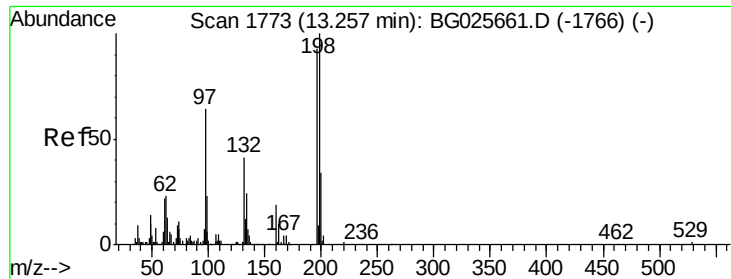


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



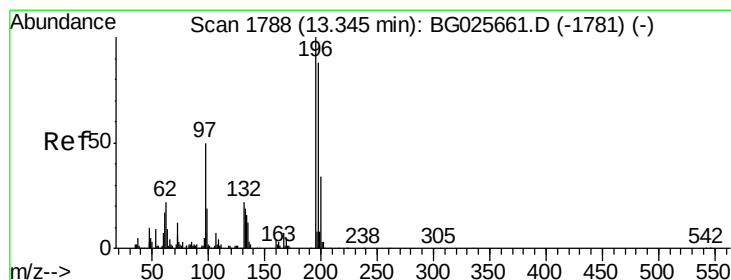
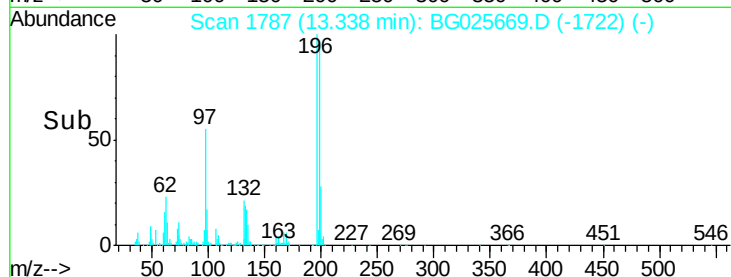
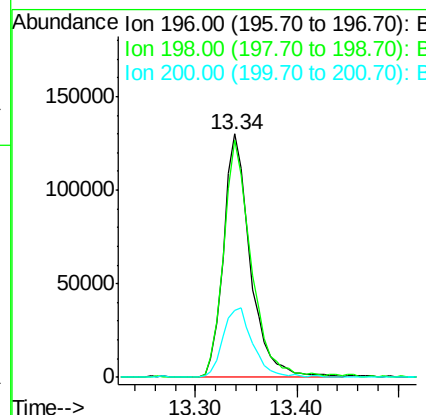
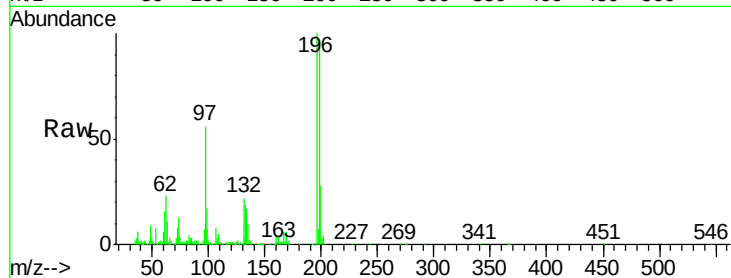
Time-->



#38
 2,4,6-Trichlorophenol
 Concen: 56.30 ng/ul
 RT: 13.34 min Scan# 1787
 Delta R.T. 0.08 min
 Lab File: BG025669.D
 Acq: 26 Jan 2017 16:36

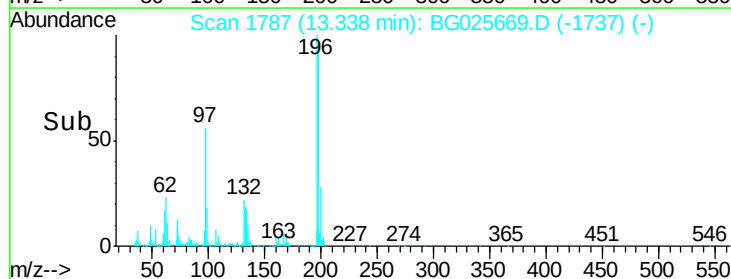
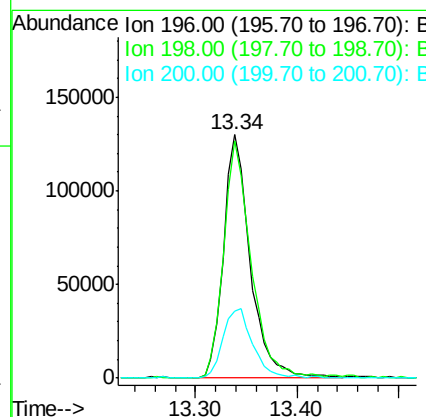
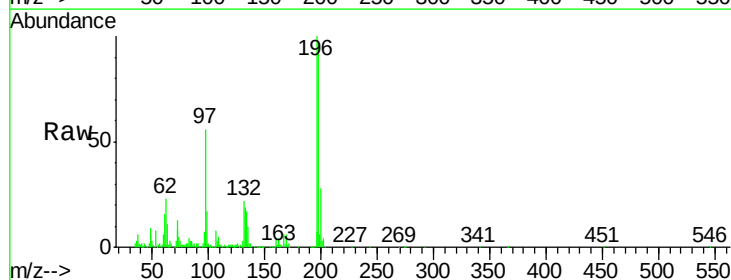
Instrument :
 BNA_G
 ClientSampleId :
 DA9Q7DL

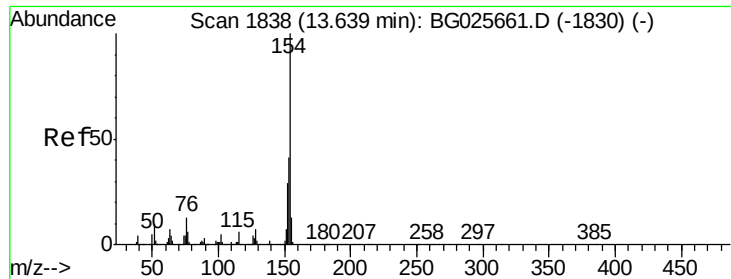
Tgt Ion:196 Resp: 238122
 Ion Ratio Lower Upper
 196 100
 198 97.2 71.4 107.2
 200 27.7 24.6 37.0



#39
 2,4,5-Trichlorophenol
 Concen: 53.69 ng/ul
 RT: 13.34 min Scan# 1787
 Delta R.T. -0.01 min
 Lab File: BG025669.D
 Acq: 26 Jan 2017 16:36

Tgt Ion:196 Resp: 238122
 Ion Ratio Lower Upper
 196 100
 198 97.2 78.6 118.0
 200 27.7 27.3 40.9

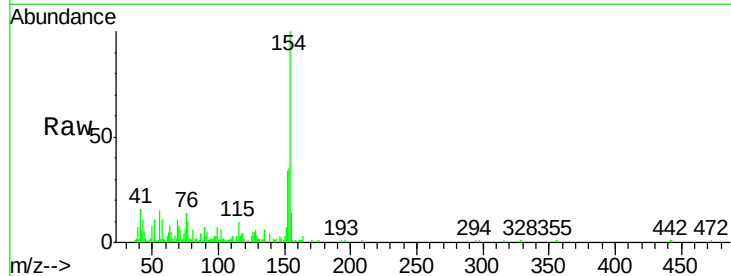




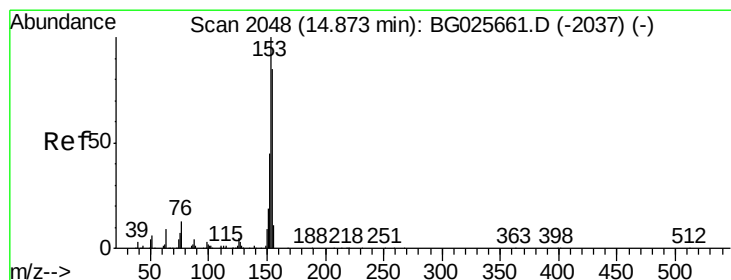
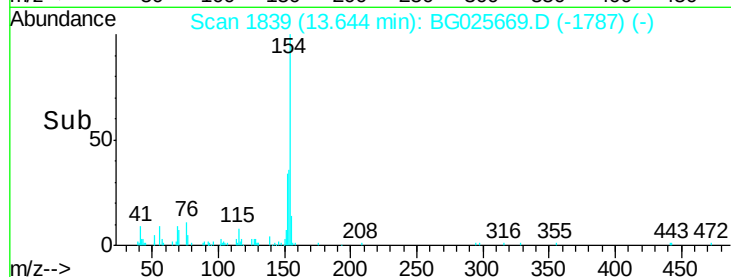
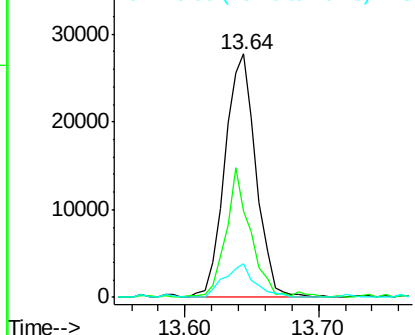
#40
1,1'-Biphenyl
Concen: 3.14 ng/ul
RT: 13.64 min Scan# 1839
Delta R.T. 0.00 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

Instrument :
BNA_G
ClientSampleId :
DA9Q7DL

Tgt Ion:154 Resp: 45121
Ion Ratio Lower Upper
154 100
153 35.1 32.2 48.2
76 14.0 9.6 14.4

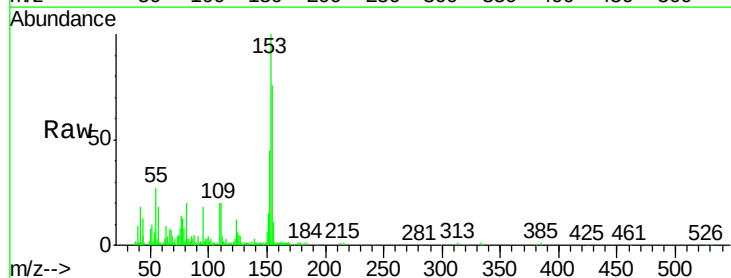


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): B

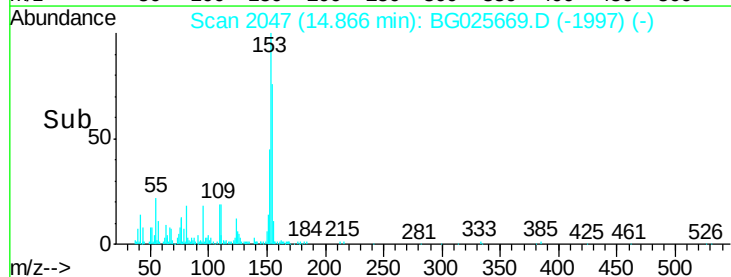
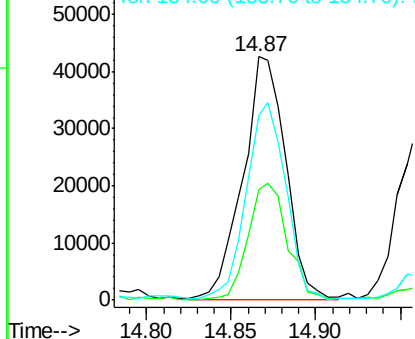


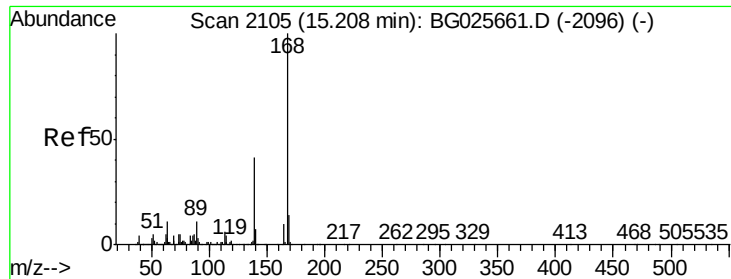
#49
Acenaphthene
Concen: 6.09 ng/ul
RT: 14.87 min Scan# 2047
Delta R.T. -0.01 min
Lab File: BG025669.D
Acq: 26 Jan 2017 16:36

Tgt Ion:153 Resp: 74743
Ion Ratio Lower Upper
153 100
152 45.2 36.5 54.7
154 75.7 72.3 108.5



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 6.50 ng/ul

RT: 15.21 min Scan# 2105

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

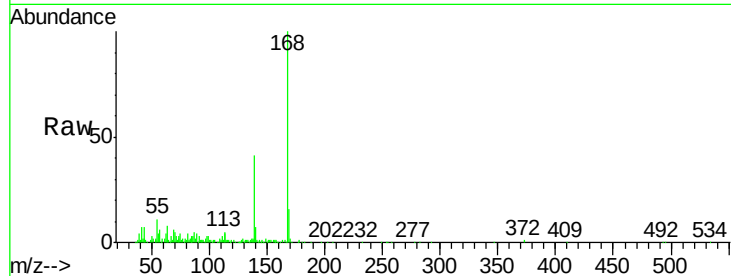
DA9Q7DL

Tgt Ion:168 Resp: 122680

Ion Ratio Lower Upper

168 100

139 41.0 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.21

80000

60000

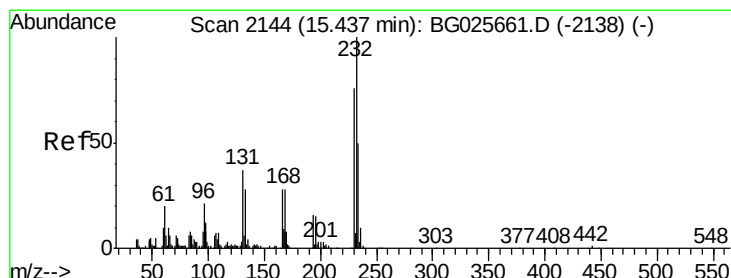
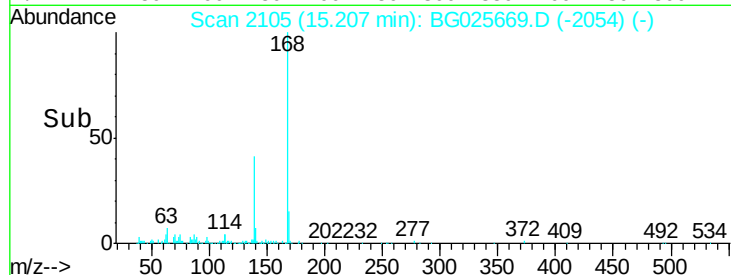
40000

20000

0

15.15 15.20 15.25

Time-->



#55

2,3,4,6-Tetrachlorophenol

Concen: 49.81 ng/ul

RT: 15.44 min Scan# 2144

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Tgt Ion:232 Resp: 233738

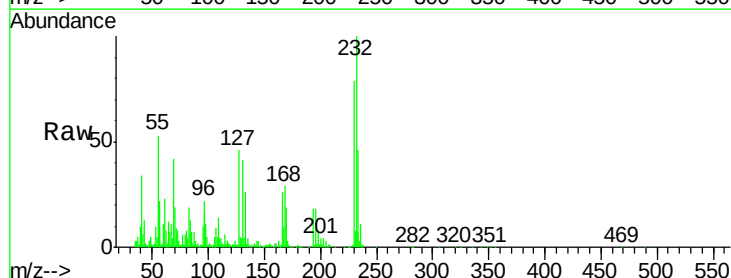
Ion Ratio Lower Upper

232 100

131 41.4 33.3 49.9

130 3.6 1.8 2.6#

166 26.3 21.9 32.9



Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

15.44

120000

100000

80000

60000

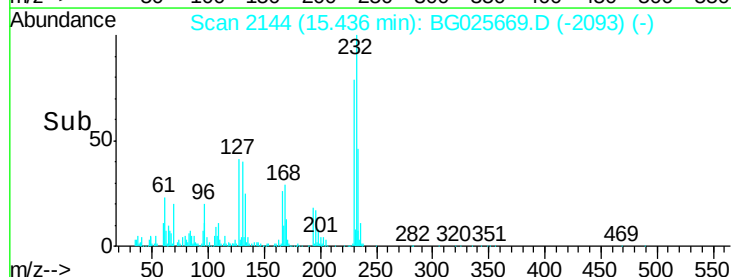
40000

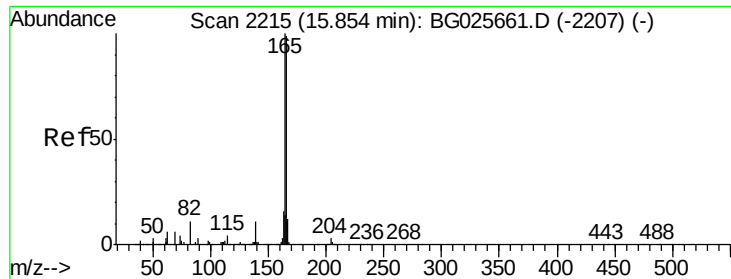
20000

0

15.40 15.50

Time-->





#58

Fluorene

Concen: 4.51 ng/ul

RT: 15.85 min Scan# 2215

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

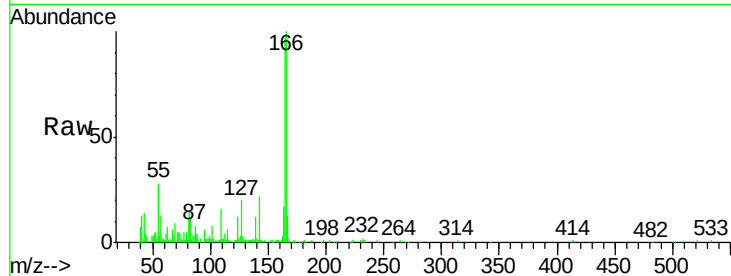
Tgt Ion:166 Resp: 69544

Ion Ratio Lower Upper

166 100

165 96.9 79.7 119.5

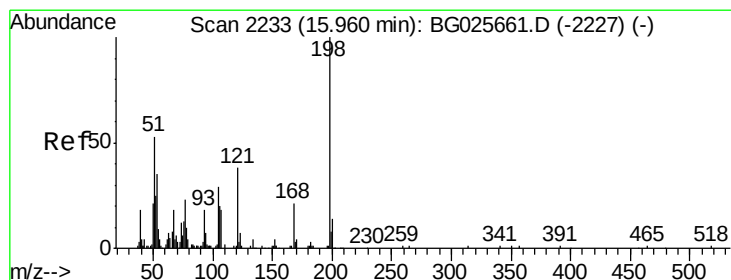
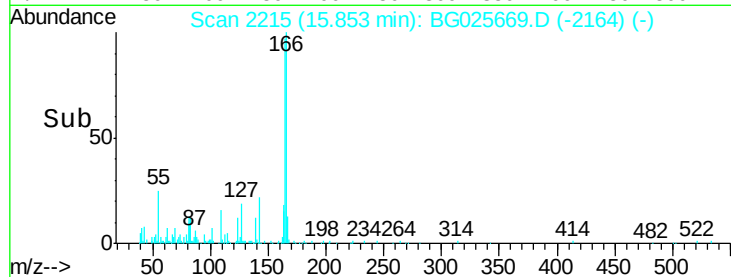
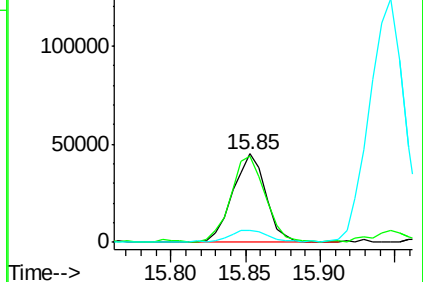
167 13.4 11.4 17.2



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

4,6-Dinitro-2-methylphenol

Concen: 915.47 ng/ul

RT: 15.95 min Scan# 2231

Delta R.T. -0.01 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

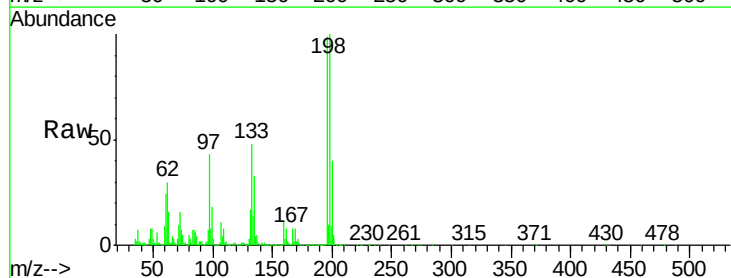
Tgt Ion:198 Resp: 2961502

Ion Ratio Lower Upper

198 100

182 0.1 5.8 6.4#

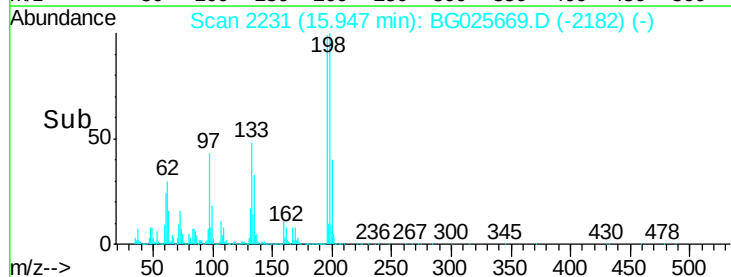
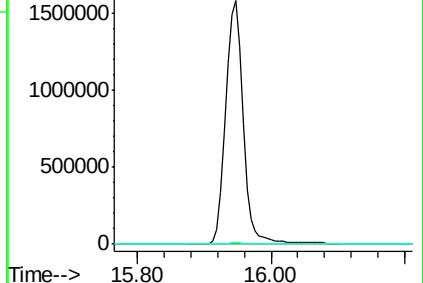
77 0.5 22.1 33.9#

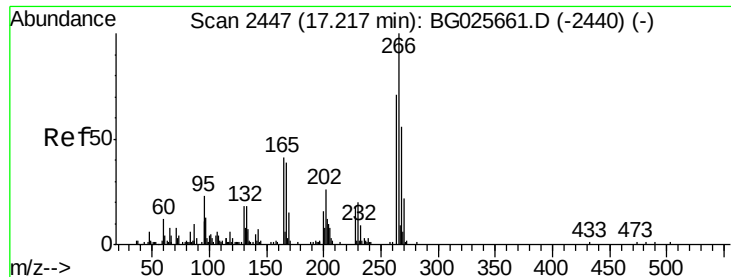


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BG





#68

Pentachlorophenol

Concen: 647.02 ng/ul

RT: 17.22 min Scan# 2447

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

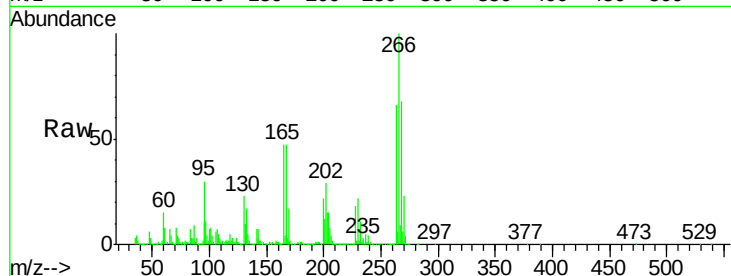
Tgt Ion:266 Resp: 1805833

Ion Ratio Lower Upper

266 100

264 65.9 47.1 70.7

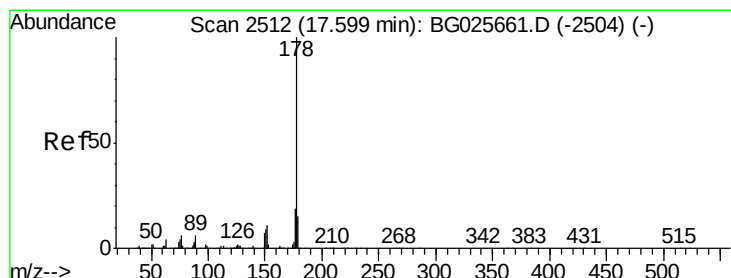
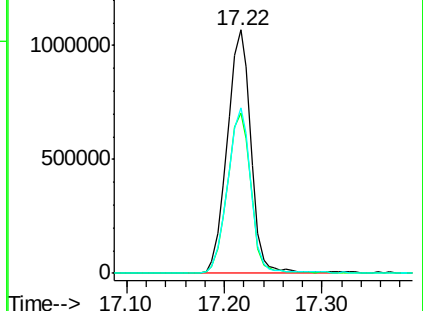
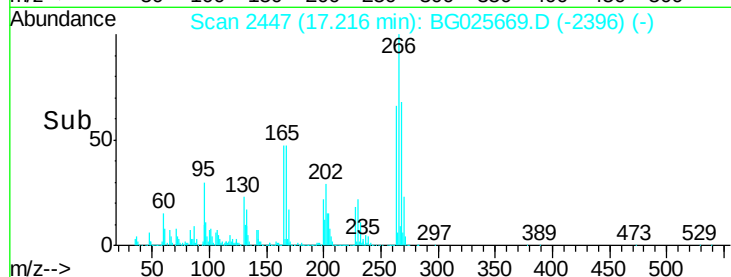
268 67.8 56.2 84.4



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#69

Phenanthrene

Concen: 7.53 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. -0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

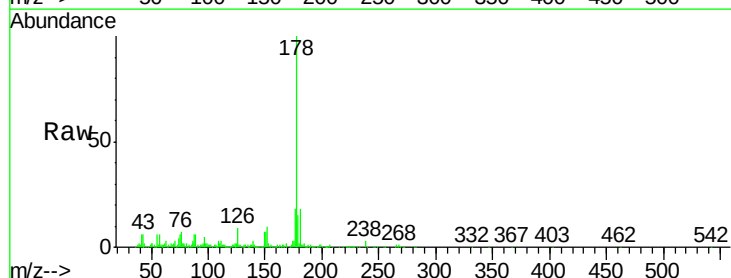
Tgt Ion:178 Resp: 186190

Ion Ratio Lower Upper

178 100

179 14.7 12.4 18.6

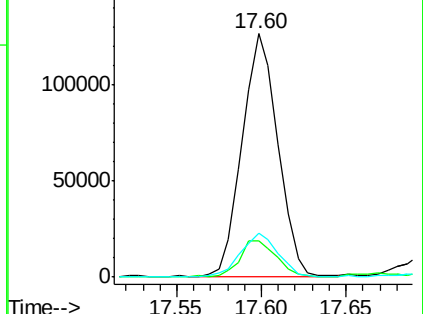
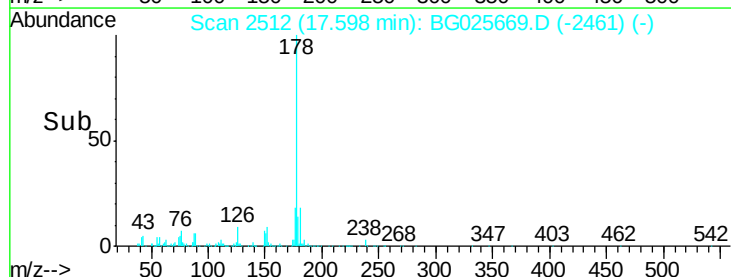
176 18.1 16.5 24.7

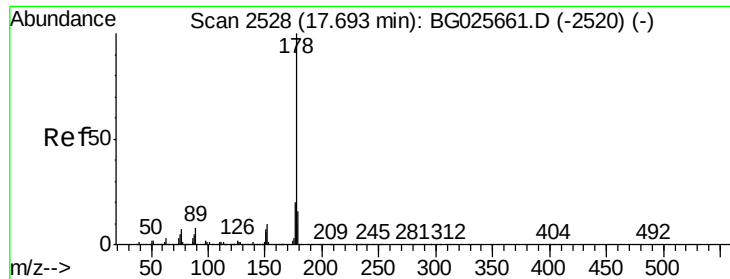


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 7.49 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. -0.10 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

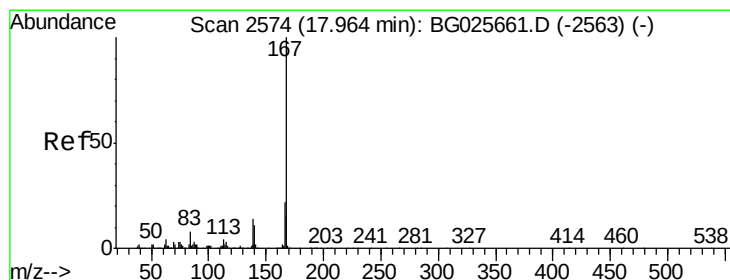
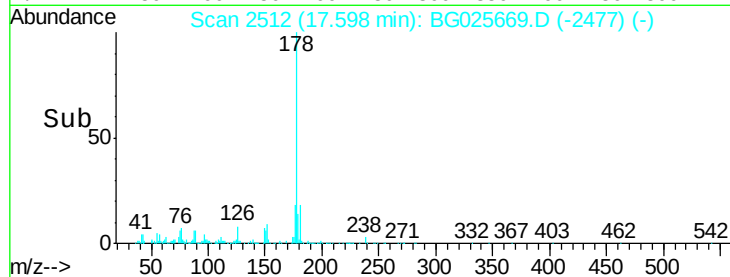
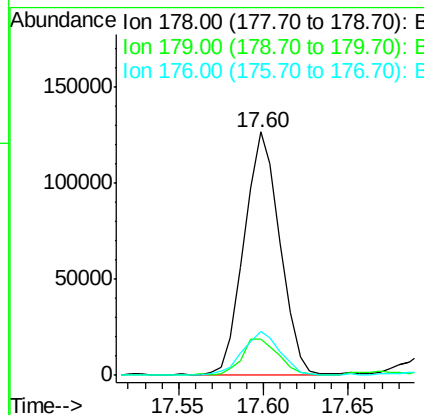
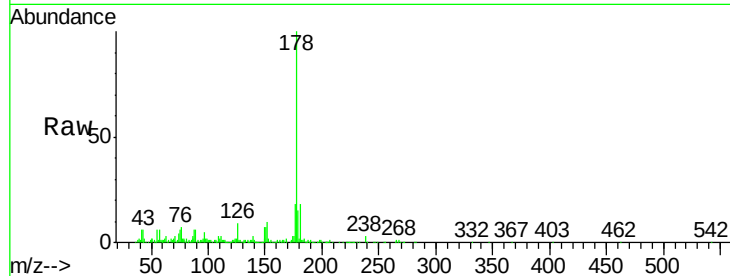
Instrument :

BNA_G

ClientSampleId :

DA9Q7DL

Tgt Ion:	178	Resp:	186267
Ion	Ratio	Lower	Upper
178	100		
179	14.7	12.6	19.0
176	18.1	15.9	23.9



#72

Carbazole

Concen: 13.79 ng/ul

RT: 17.97 min Scan# 2575

Delta R.T. 0.00 min

Lab File: BG025669.D

Acq: 26 Jan 2017 16:36

Tgt Ion:	167	Resp:	284263
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.9	26.9
139	13.0	10.5	15.7

