

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
 Data File : BG020265.D
 Acq On : 18 Dec 2015 4:01
 Operator : UM/SJ
 Sample : G4767-22DL 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N44DL

Quant Time: Dec 18 07:49:25 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 18 02:40:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	19911	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	87619	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.73	164	64188	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.49	188	133983	20.00	ng/ul	0.01
78) Chrysene-d12	21.76	240	173701	20.00	ng/ul	0.01
86) Perylene-d12	25.03	264	166891	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.25	99	2814	1.60	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	1771	1.69	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	2447	1.92	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	2739	1.82	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	1545	2.26	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	1474	1.94	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	2759	1.79	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	6474	3.74	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	11664	2.25	ng/ul	0.00
47) Acenaphthylene-d8	14.43	160	11549	1.91	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	2740	2.94	ng/ul	0.00
58) Fluorene-d10	15.73	176	9841	2.09	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.49	188	133983	21.70	ng/ul	-0.08
79) Pyrene-d10	19.86	212	15666	1.94	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	16418	1.97	ng/ul	0.00

Target Compounds

						Qvalue
11) 2-Methylphenol	8.53	108	2469	1.72	ng/ul#	79
16) 4-Methylphenol	8.86	108	3514	2.21	ng/ul	92
17) Hexachloroethane	9.21	117	2282	4.06	ng/ul#	1
24) 2,4-Dimethylphenol	10.07	107	7564	4.09	ng/ul	97
28) Naphthalene	11.00	128	4201597	918.26	ng/ul#	71
30) 4-Chloroaniline	11.00	127	847757	480.24	ng/ul#	11
34) 2-Methylnaphthalene	12.58	142	1702266	487.05	ng/ul	100
35) 1-Methylnaphthalene	12.79	142	859710	255.86	ng/ul#	95
41) 1,1'-Biphenyl	13.57	154	735143	151.81	ng/ul	98
43) 2-Nitroaniline	13.76	65	3518	2.67	ng/ul#	40
45) Dimethylphthalate	14.18	163	5336	1.01	ng/ul	98
48) Acenaphthylene	14.46	152	277193	43.19	ng/ul#	96
50) Acenaphthene	14.82	153	2581264	597.80	ng/ul#	89
54) Dibenzofuran	15.15	168	2531545	394.12	ng/ul#	80
55) 2,4-Dinitrotoluene	15.08	165	3946	2.45	ng/ul#	43
59) Fluorene	15.80	166	2413006	467.81	ng/ul#	97
61) 4-Nitroaniline	15.80	138	37674	32.72	ng/ul#	13
65) N-Nitrosodiphenylamine	15.98	169	12622	3.39	ng/ul#	1
70) Phenanthrene	17.63	178	850594	116.06	ng/ul	97
72) Anthracene	17.63	178	851667	114.58	ng/ul	95
75) Carbazole	17.88	167	549235	87.94	ng/ul	97
77) Fluoranthene	19.67	202	23340	2.73	ng/ul	98
80) Pyrene	19.91	202	3522177	335.03	ng/ul#	76

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QLast Update : Fri Dec 18 02:40:02 2015
Response via : Initial Calibration

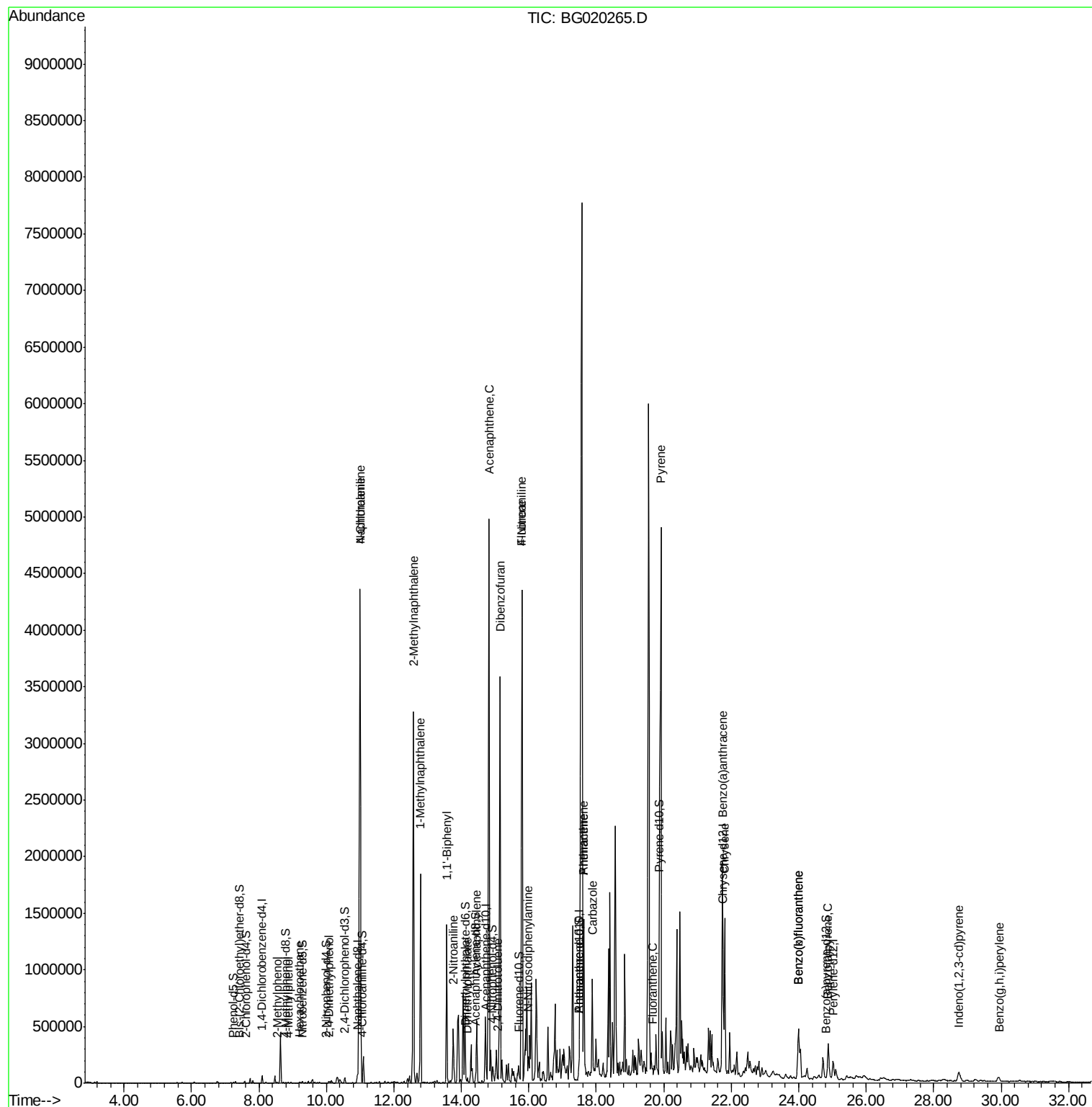
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Benzo(a)anthracene	21.74	228	1223776	120.74	ng/ul	92
85) Chrysene	21.81	228	1024400	107.32	ng/ul#	93
88) Benzo(b)fluoranthene	23.99	252	621849	61.91	ng/ul	96
89) Benzo(k)fluoranthene	23.99	252	621849	64.51	ng/ul	98
91) Benzo(a)pyrene	24.87	252	351888	36.96	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.76	276	111437	9.83	ng/ul	97
94) Benzo(g,h,i)perylene	29.93	276	80308	8.64	ng/ul	97

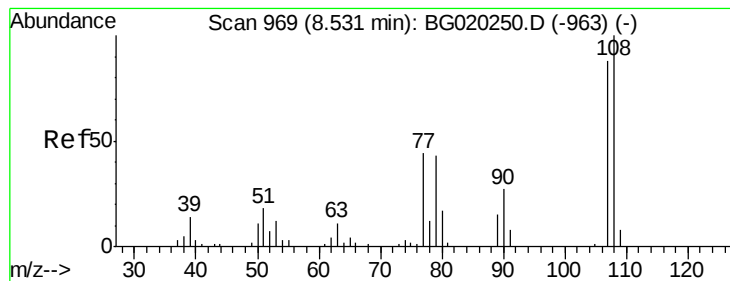
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#11

2-Methylphenol

Concen: 1.72 ng/ul

RT: 8.53 min Scan# 969

Delta R.T. 0.00 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

Instrument :

BNA_G

ClientSampleId :

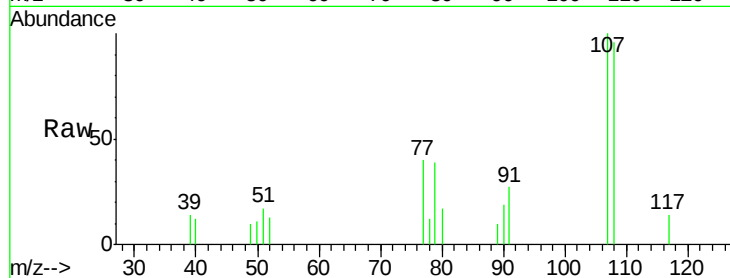
D9N44DL

Tgt Ion:108 Resp: 2469

Ion Ratio Lower Upper

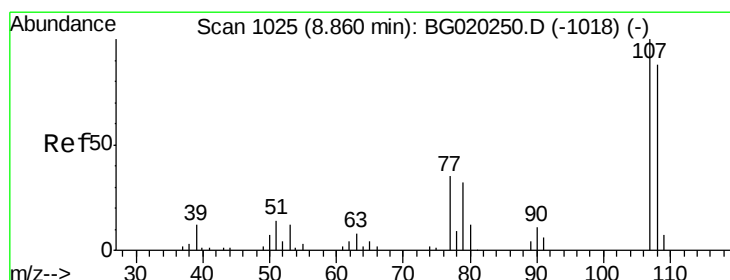
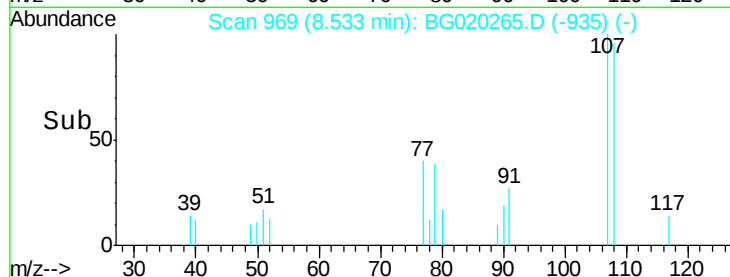
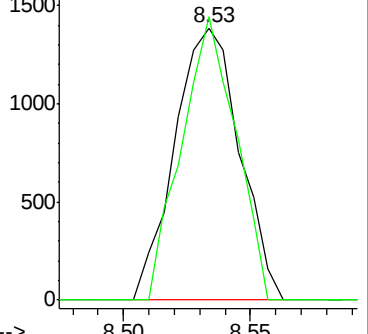
108 100

107 103.9 67.5 101.3#



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#16

4-Methylphenol

Concen: 2.21 ng/ul

RT: 8.86 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BG020265.D

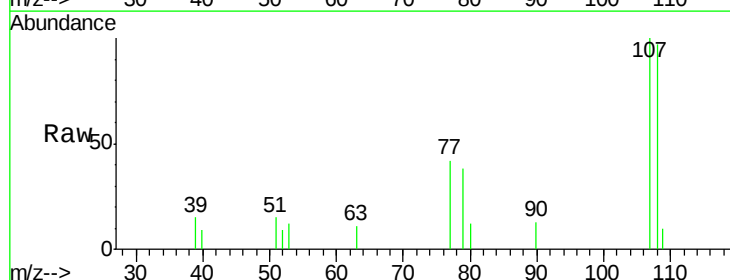
Acq: 18 Dec 2015 4:01

Tgt Ion:108 Resp: 3514

Ion Ratio Lower Upper

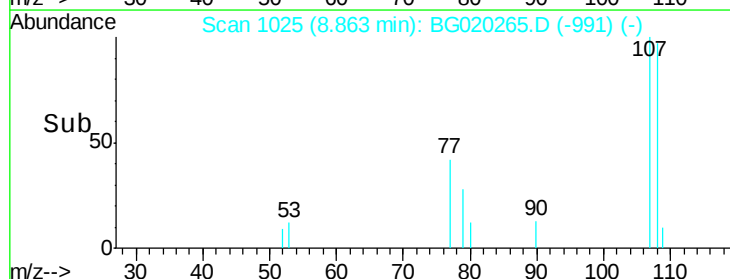
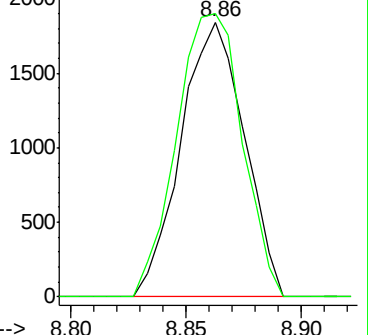
108 100

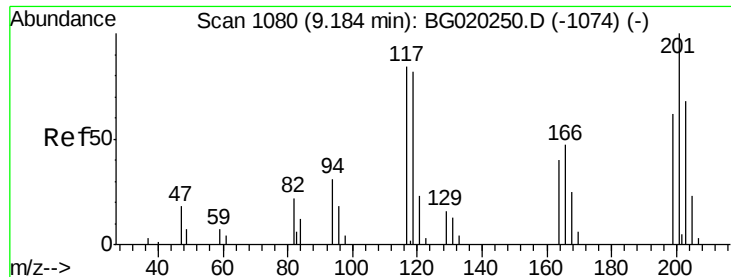
107 102.9 88.9 133.3



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

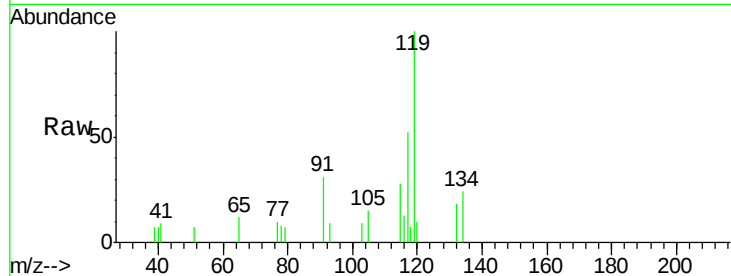




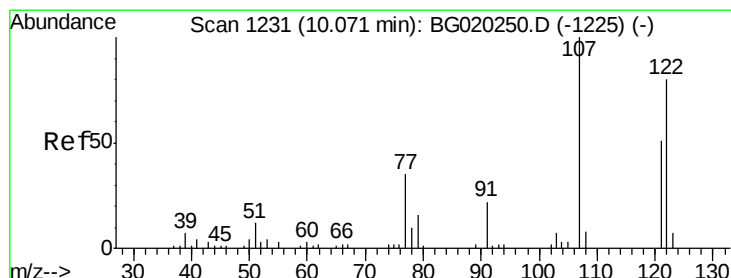
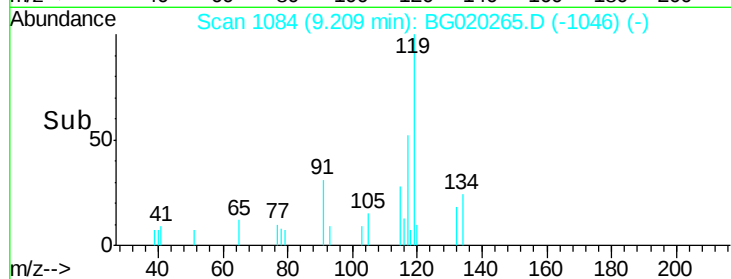
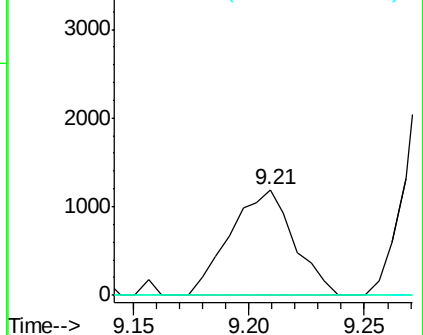
#17
Hexachloroethane
Concen: 4.06 ng/ul
RT: 9.21 min Scan# 1084
Delta R.T. 0.03 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Instrument :
BNA_G
ClientSampleId :
D9N44DL

Tgt Ion:117 Resp: 2282
Ion Ratio Lower Upper
117 100
201 0.0 102.7 154.1#
199 0.0 65.8 98.8#

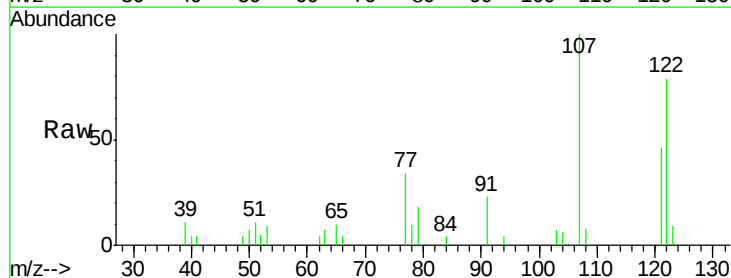


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

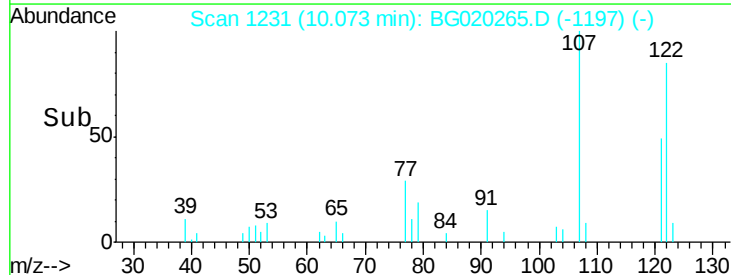
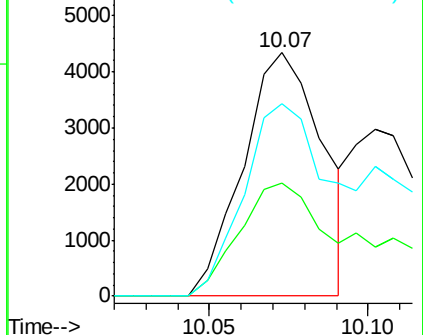


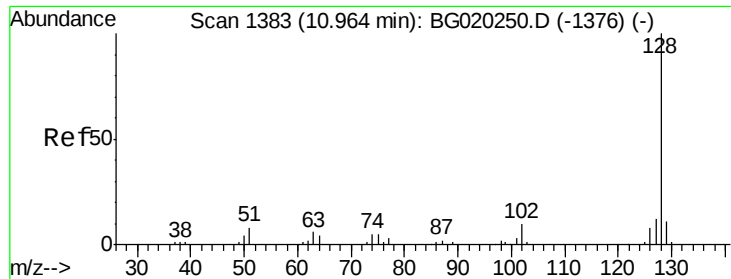
#24
2,4-Dimethylphenol
Concen: 4.09 ng/ul
RT: 10.07 min Scan# 1231
Delta R.T. 0.00 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion:107 Resp: 7564
Ion Ratio Lower Upper
107 100
121 46.2 39.0 58.4
122 79.2 62.1 93.1



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E
Ion 122.00 (121.70 to 122.70): E

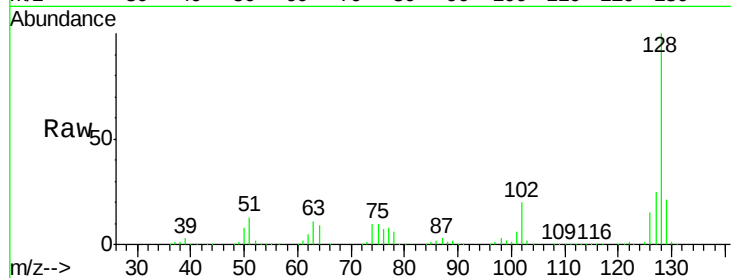




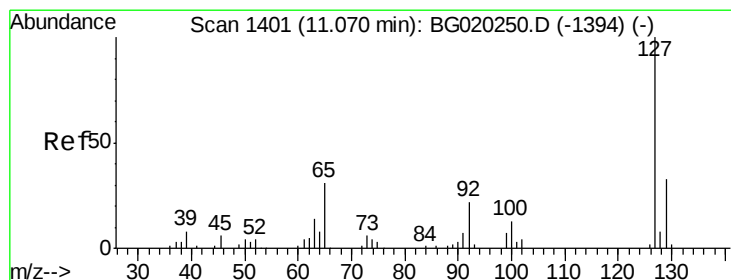
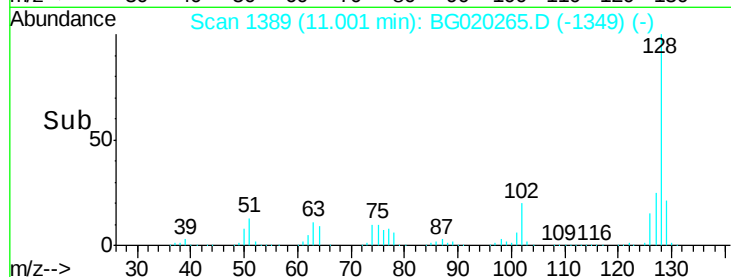
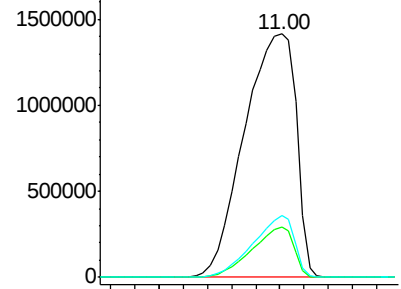
#28
Naphthalene
Concen: 918.26 ng/ul
RT: 11.00 min Scan# 1389
Delta R.T. 0.04 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Instrument :
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ClientSampleId :
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Tgt Ion:128 Resp: 4201597
Ion Ratio Lower Upper
128 100
129 20.6 8.6 12.8#
127 25.2 10.1 15.1#

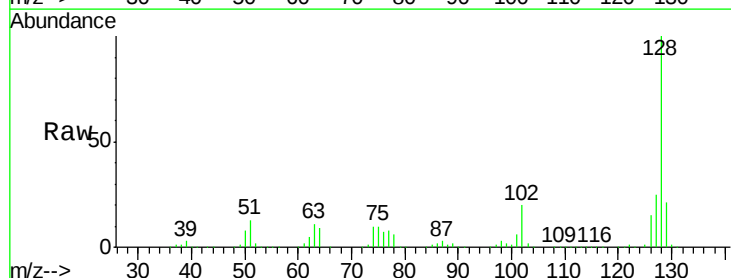


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

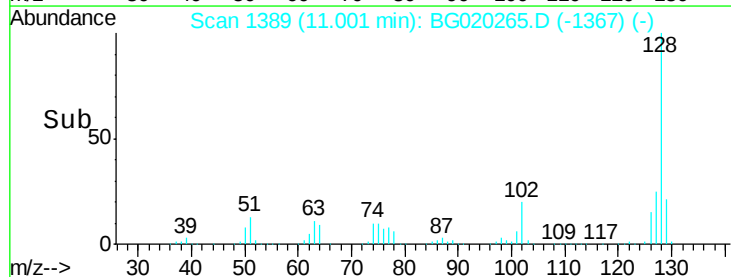
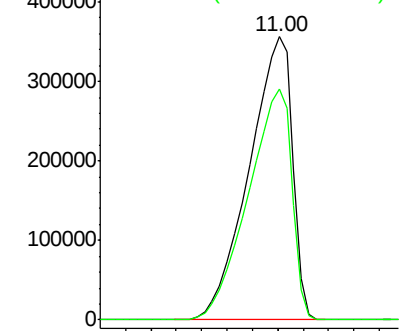


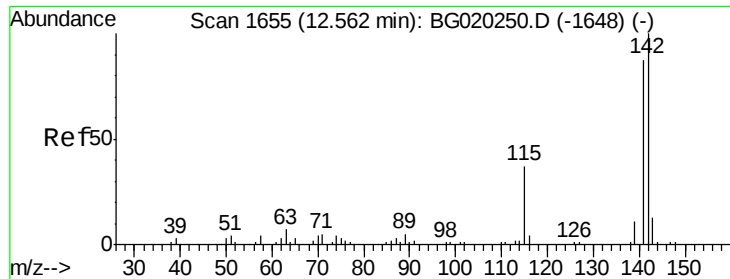
#30
4-Chloroaniline
Concen: 480.24 ng/ul
RT: 11.00 min Scan# 1389
Delta R.T. -0.07 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion:127 Resp: 847757
Ion Ratio Lower Upper
127 100
129 81.7 25.7 38.5#



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

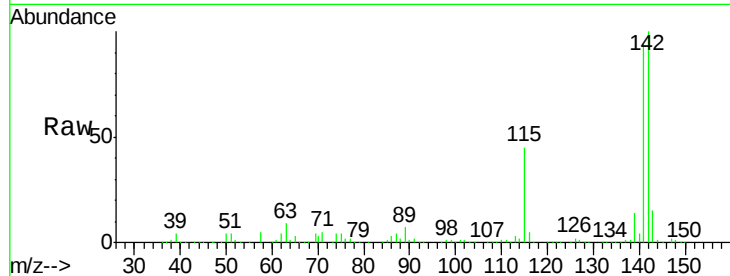




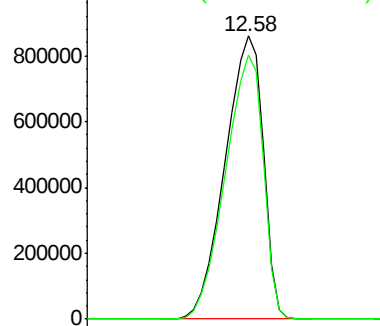
#34
2-Methylnaphthalene
Concen: 487.05 ng/ul
RT: 12.58 min Scan# 1658
Delta R.T. 0.02 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Instrument :
BNA_G
ClientSampleId :
D9N44DL

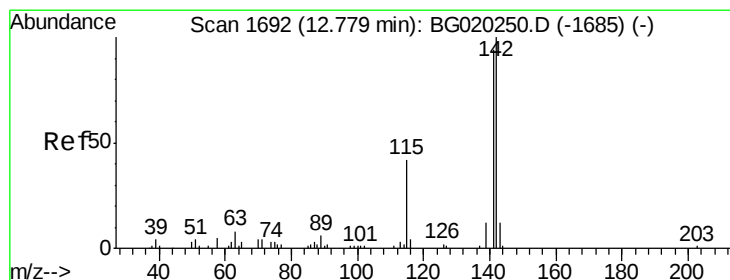
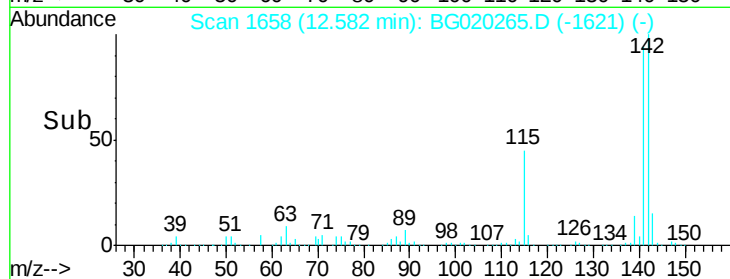
Tgt Ion:142 Resp: 1702266
Ion Ratio Lower Upper
142 100
141 93.5 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

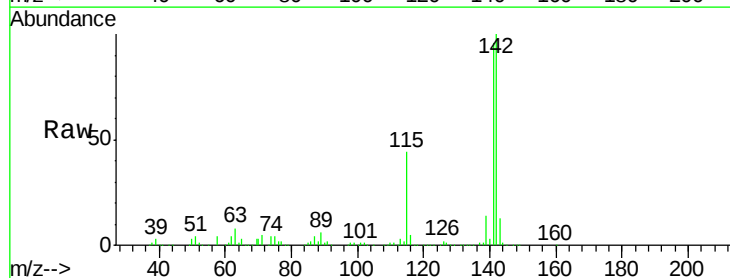


Time-->

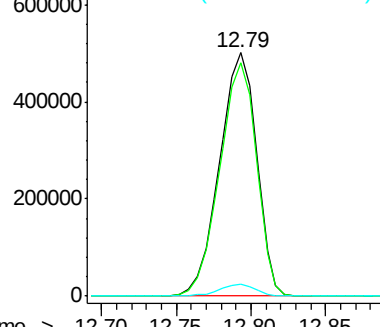


#35
1-Methylnaphthalene
Concen: 255.86 ng/ul
RT: 12.79 min Scan# 1694
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

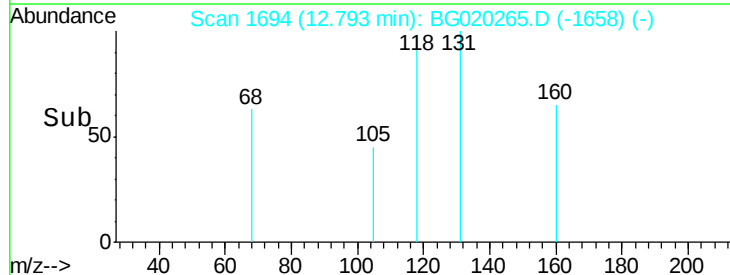
Tgt Ion:142 Resp: 859710
Ion Ratio Lower Upper
142 100
141 95.8 73.0 109.6
116 4.8 3.0 4.6#

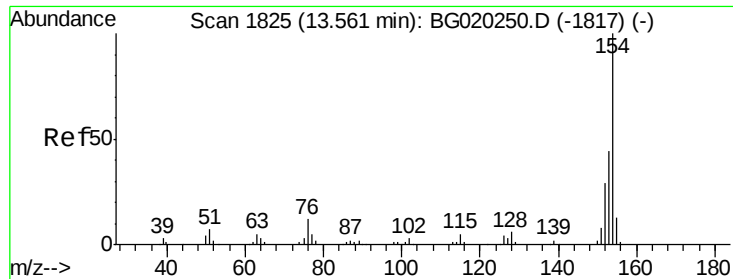


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E



Time-->

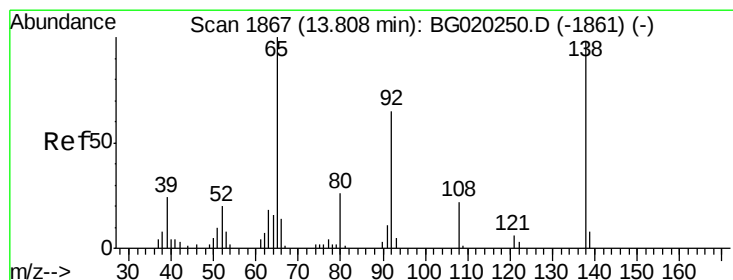
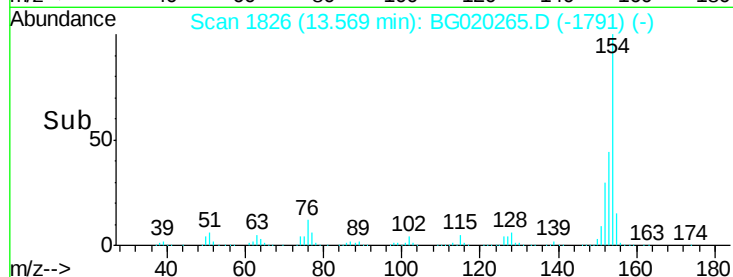
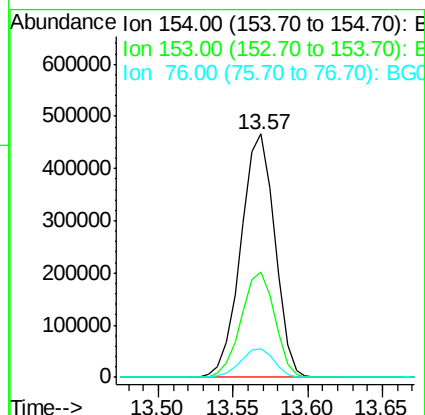
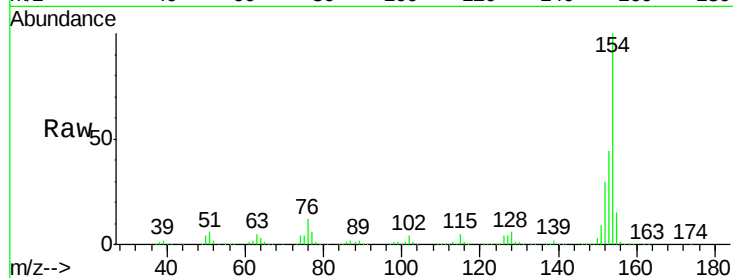




#41
1,1'-Biphenyl
Concen: 151.81 ng/ul
RT: 13.57 min Scan# 1826
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

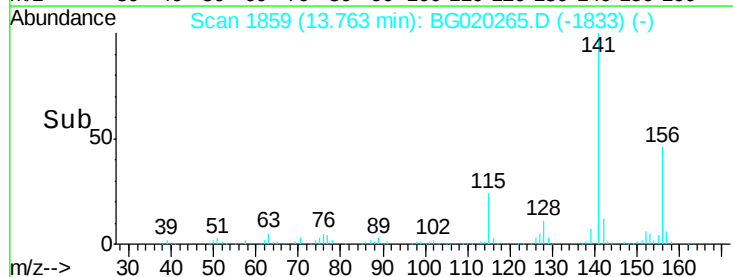
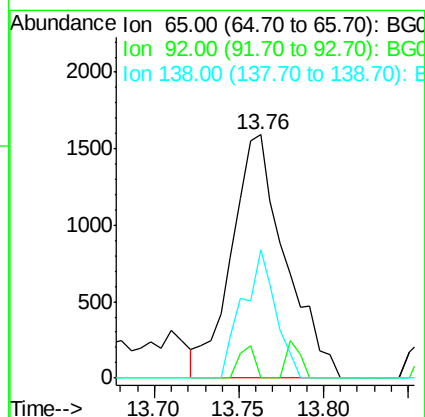
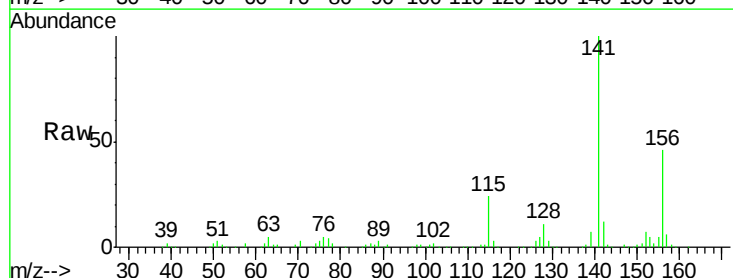
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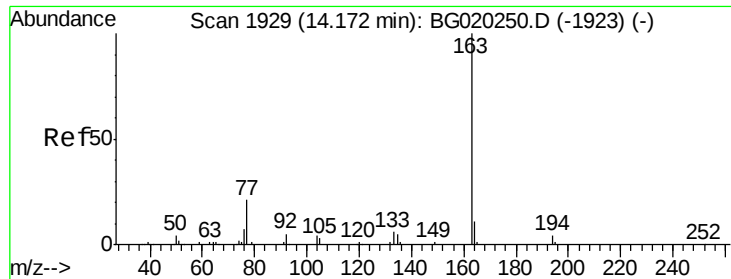
Tgt Ion:154 Resp: 735143
Ion Ratio Lower Upper
154 100
153 43.5 35.5 53.3
76 11.9 10.4 15.6



#43
2-Nitroaniline
Concen: 2.67 ng/ul
RT: 13.76 min Scan# 1859
Delta R.T. -0.04 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion: 65 Resp: 3518
Ion Ratio Lower Upper
65 100
92 0.0 53.1 79.7#
138 52.8 76.6 114.8#

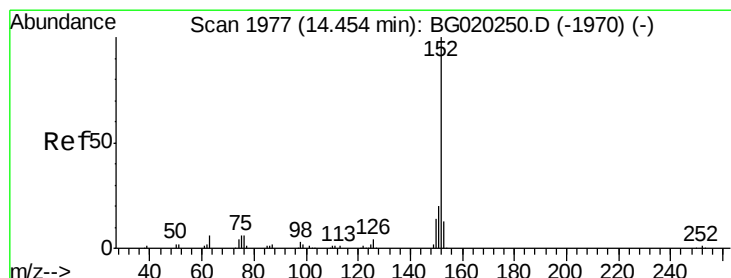
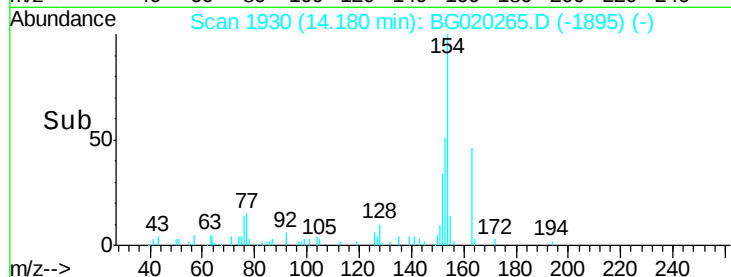
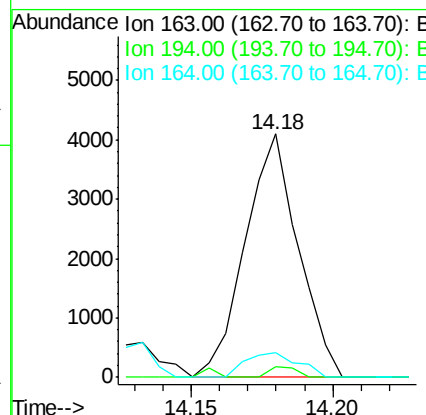
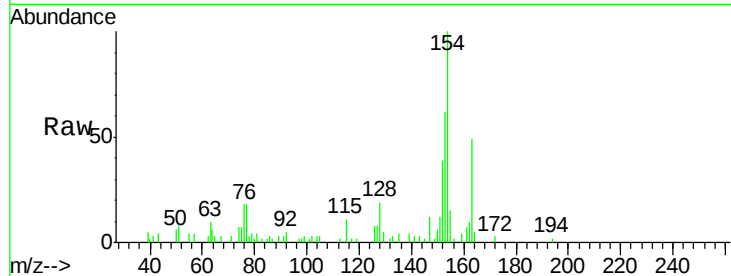




#45
Dimethylphthalate
Concen: 1.01 ng/ul
RT: 14.18 min Scan# 1930
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

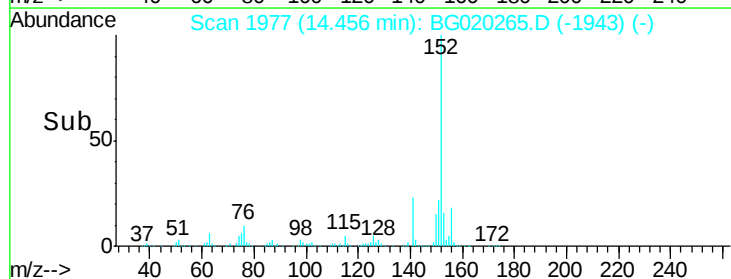
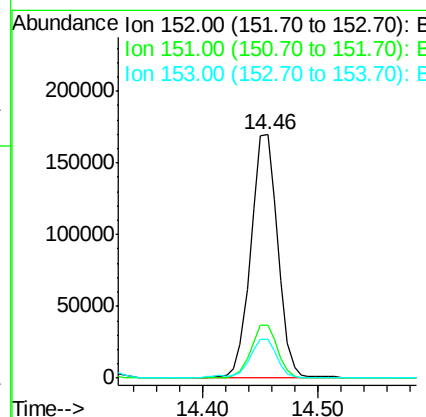
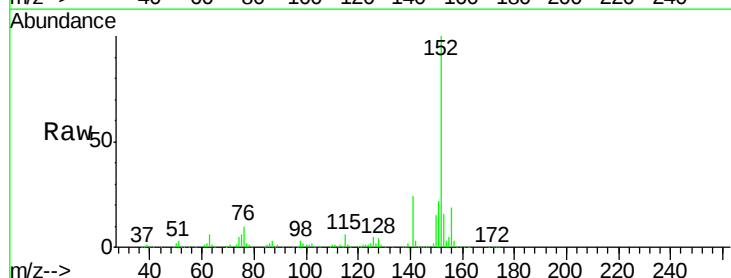
Instrument :
BNA_G
ClientSampleId :
D9N44DL

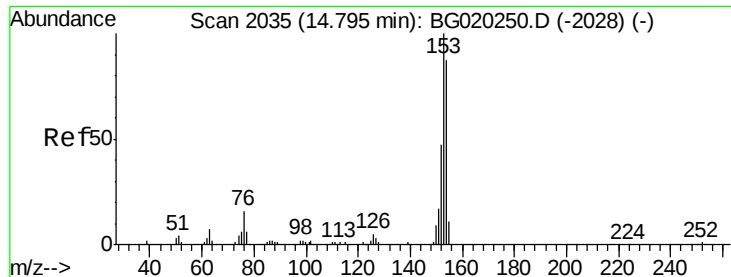
Tgt Ion:163 Resp: 5336
Ion Ratio Lower Upper
163 100
194 4.1 3.5 5.3
164 10.4 7.7 11.5



#48
Acenaphthylene
Concen: 43.19 ng/ul
RT: 14.46 min Scan# 1977
Delta R.T. 0.00 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion:152 Resp: 277193
Ion Ratio Lower Upper
152 100
151 21.5 16.4 24.6
153 15.8 10.4 15.6#





#50

Acenaphthene

Concen: 597.80 ng/ul

RT: 14.82 min Scan# 2039

Delta R.T. 0.03 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

Instrument :

BNA_G

ClientSampleId :

D9N44DL

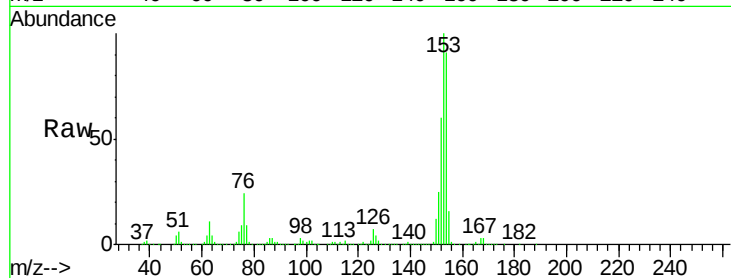
Tgt Ion:153 Resp: 2581264

Ion Ratio Lower Upper

153 100

152 59.6 37.6 56.4#

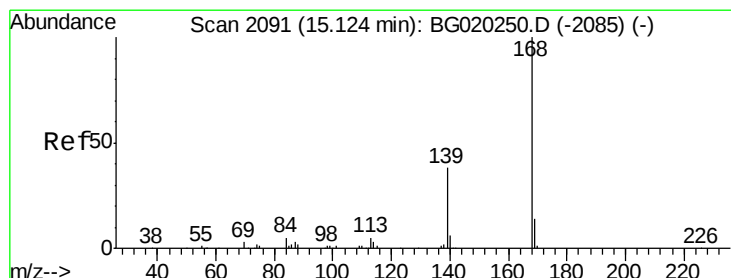
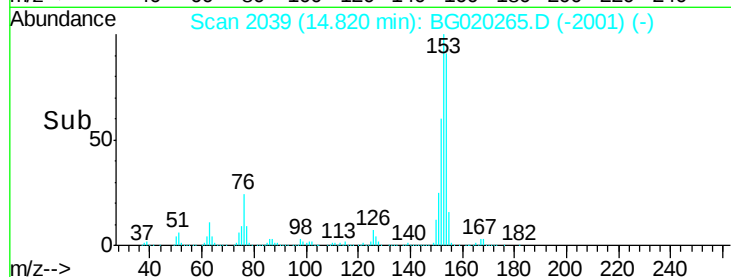
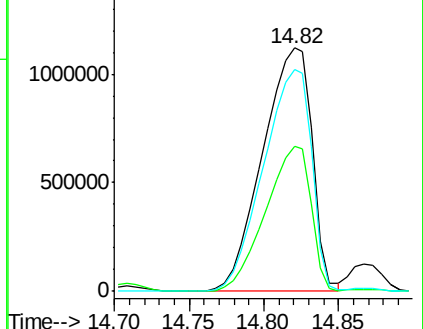
154 91.0 67.9 101.9



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



#54

Dibenzofuran

Concen: 394.12 ng/ul

RT: 15.15 min Scan# 2095

Delta R.T. 0.03 min

Lab File: BG020265.D

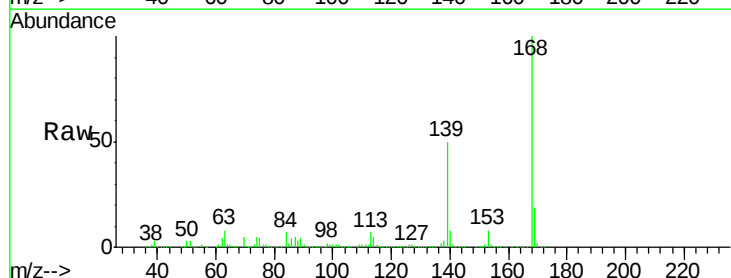
Acq: 18 Dec 2015 4:01

Tgt Ion:168 Resp: 2531545

Ion Ratio Lower Upper

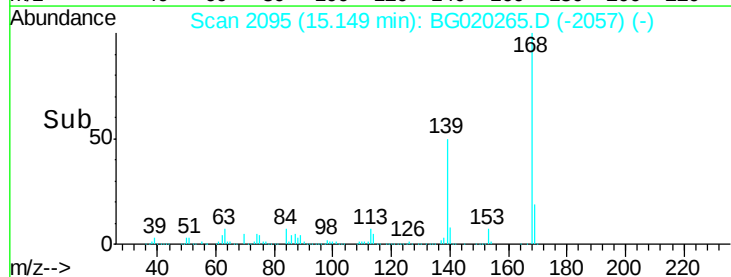
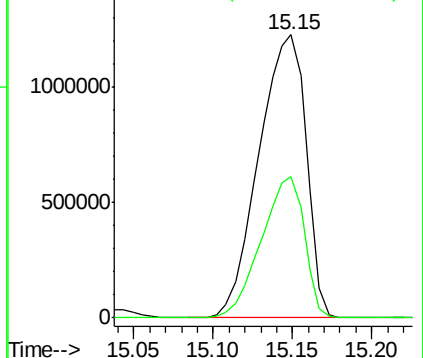
168 100

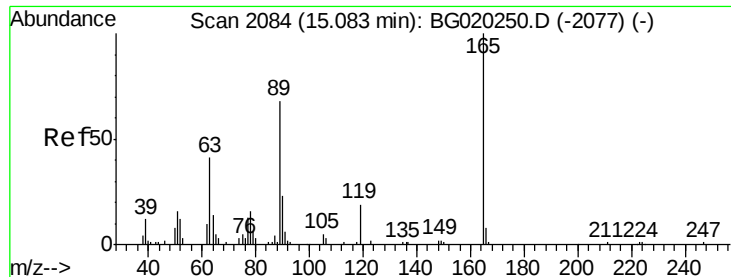
139 50.0 30.5 45.7#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

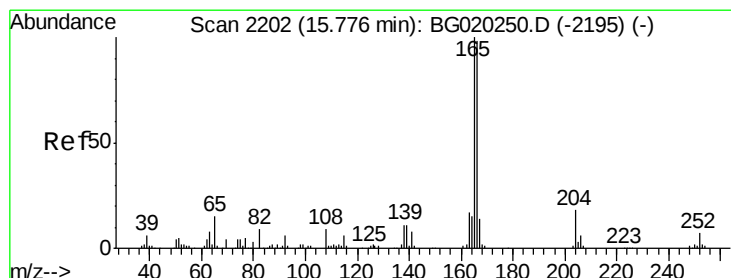
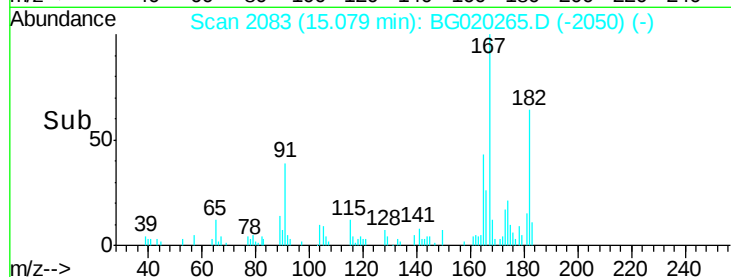
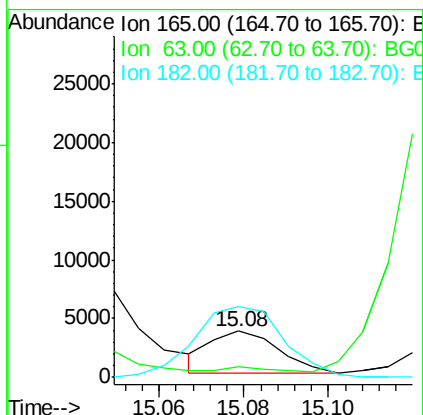
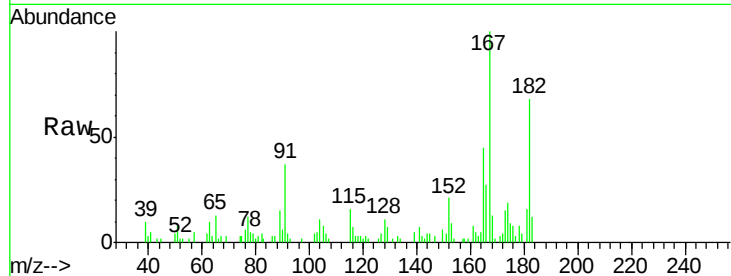




#55
 2,4-Dinitrotoluene
 Concen: 2.45 ng/ul
 RT: 15.08 min Scan# 2083
 Delta R.T. -0.00 min
 Lab File: BG020265.D
 Acq: 18 Dec 2015 4:01

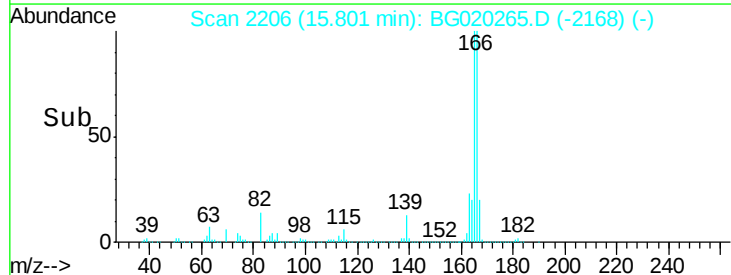
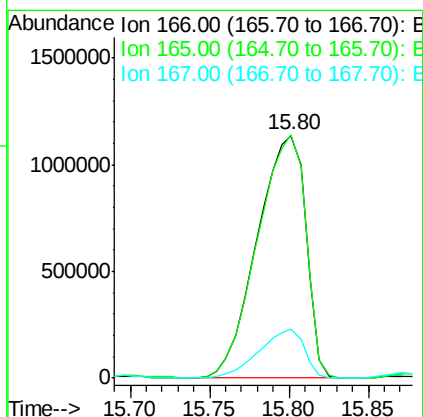
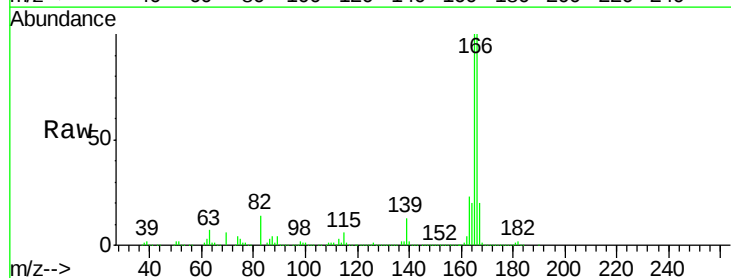
Instrument :
 BNA_G
 ClientSampleId :
 D9N44DL

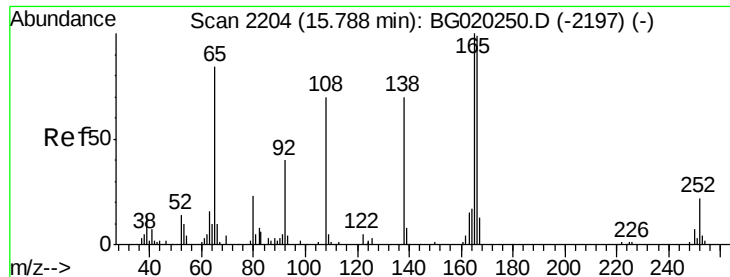
Tgt Ion:165 Resp: 3946
 Ion Ratio Lower Upper
 165 100
 63 23.0 35.8 53.8#
 182 151.8 2.2 3.2#



#59
 Fluorene
 Concen: 467.81 ng/ul
 RT: 15.80 min Scan# 2206
 Delta R.T. 0.03 min
 Lab File: BG020265.D
 Acq: 18 Dec 2015 4:01

Tgt Ion:166 Resp: 2413006
 Ion Ratio Lower Upper
 166 100
 165 100.4 81.4 122.0
 167 20.5 11.2 16.8#

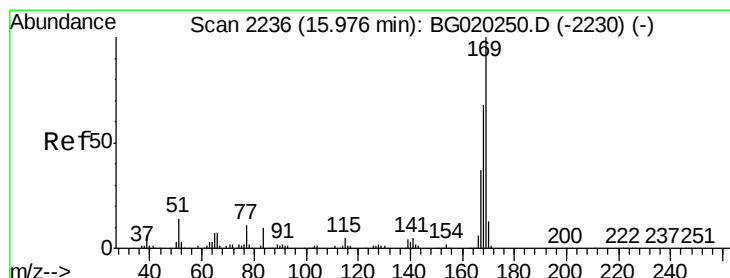
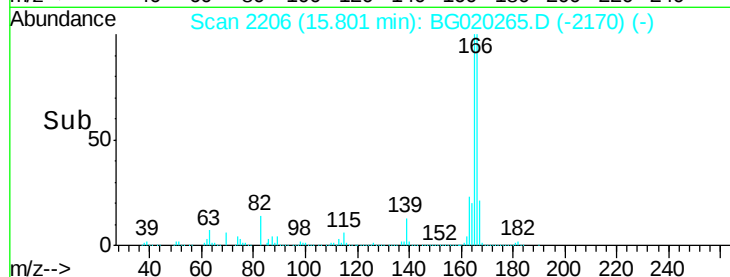
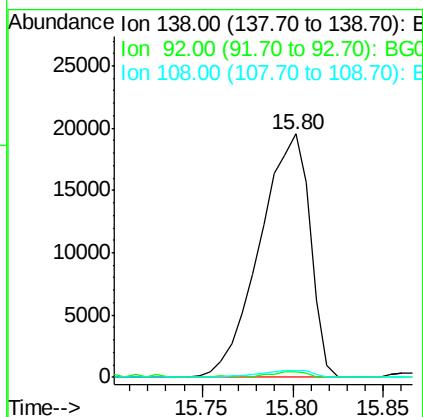
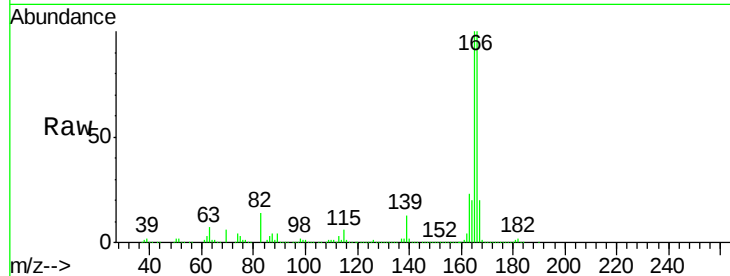




#61
4-Nitroaniline
Concen: 32.72 ng/ul
RT: 15.80 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

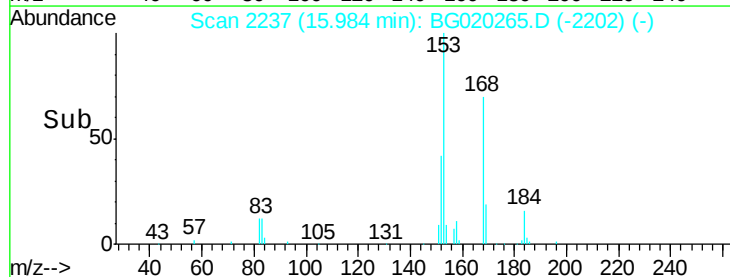
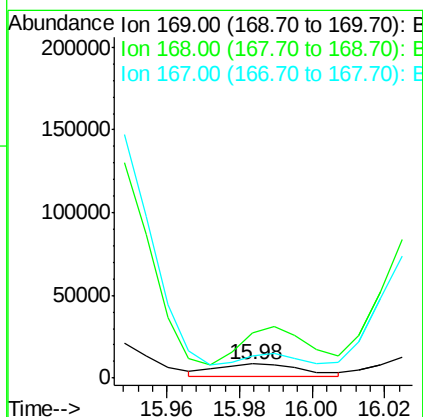
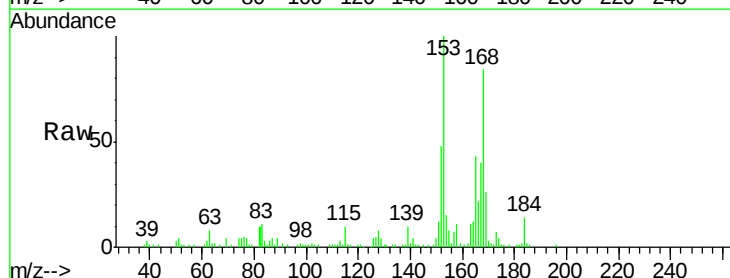
Instrument :
BNA_G
ClientSampleId :
D9N44DL

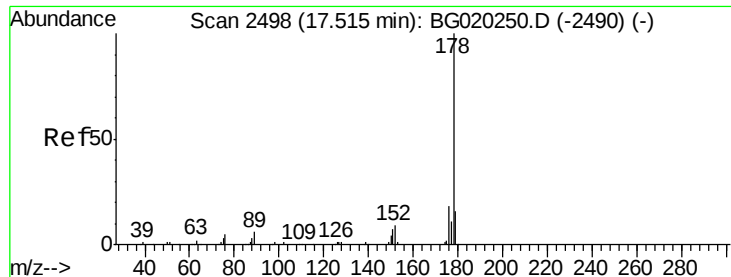
Tgt Ion:138 Resp: 37674
Ion Ratio Lower Upper
138 100
92 2.4 45.2 67.8#
108 2.6 75.4 113.0#



#65
N-Nitrosodiphenylamine
Concen: 3.39 ng/ul
RT: 15.98 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion:169 Resp: 12622
Ion Ratio Lower Upper
169 100
168 327.0 54.3 81.5#
167 155.9 31.8 47.8#





#70

Phenanthrene

Concen: 116.06 ng/ul

RT: 17.63 min Scan# 2517

Delta R.T. 0.11 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

Instrument :

BNA_G

ClientSampleId :

D9N44DL

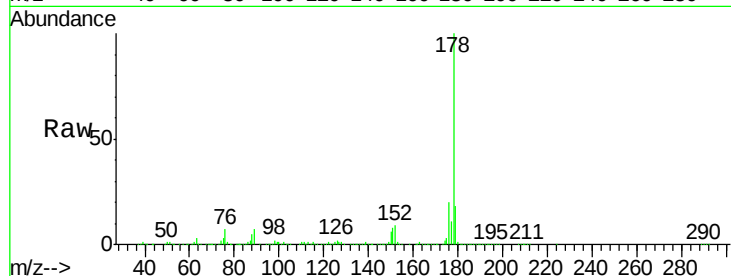
Tgt Ion:178 Resp: 850594

Ion Ratio Lower Upper

178 100

179 17.8 12.9 19.3

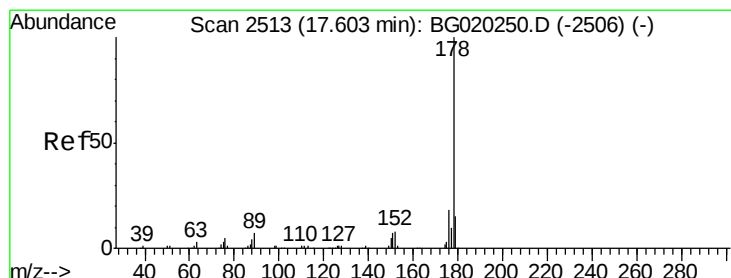
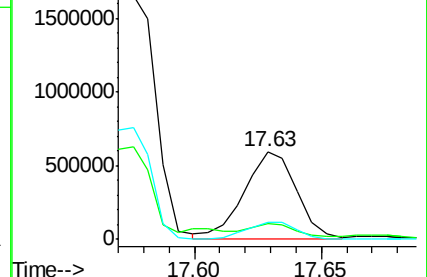
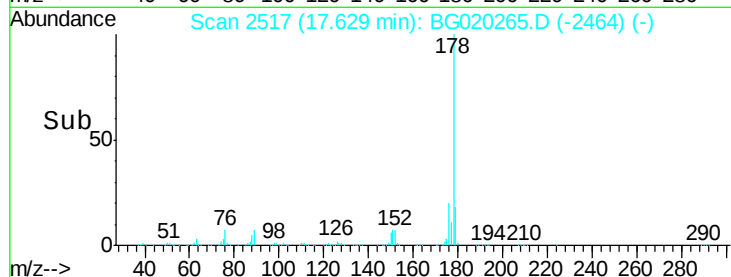
176 20.1 15.3 22.9



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



#72

Anthracene

Concen: 114.58 ng/ul

RT: 17.63 min Scan# 2517

Delta R.T. 0.03 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

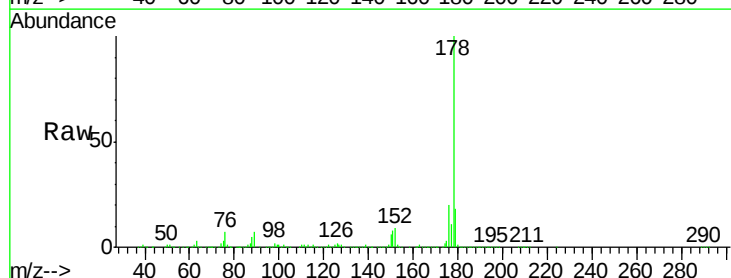
Tgt Ion:178 Resp: 851667

Ion Ratio Lower Upper

178 100

179 17.8 12.3 18.5

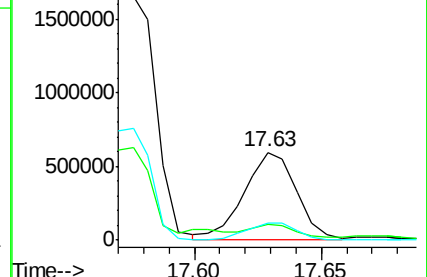
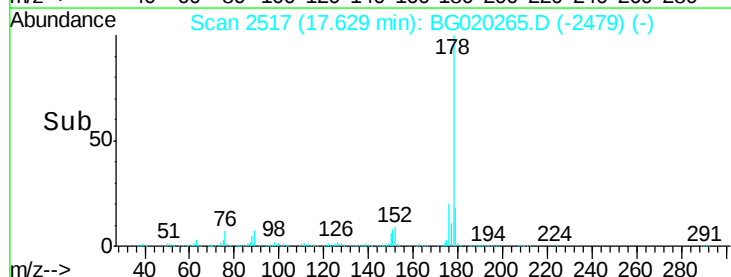
176 20.1 14.3 21.5

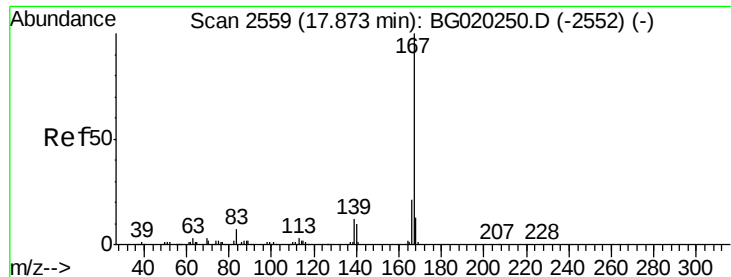


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

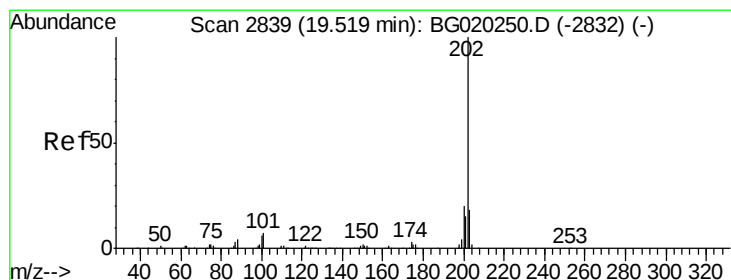
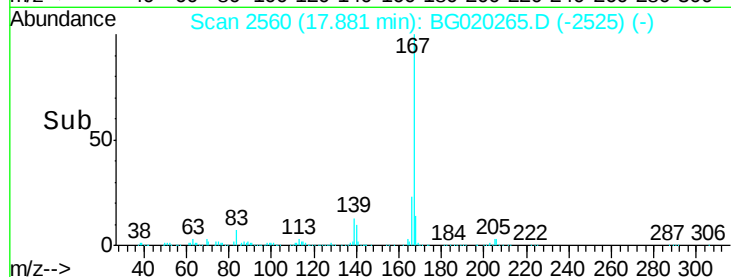
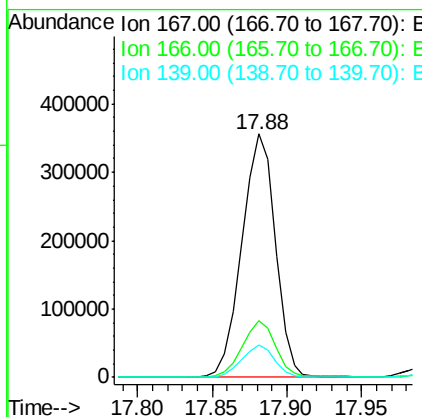
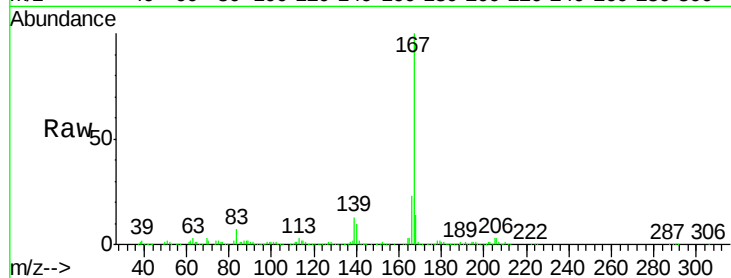




#75
 Carbazole
 Concen: 87.94 ng/ul
 RT: 17.88 min Scan# 2560
 Delta R.T. 0.01 min
 Lab File: BG020265.D
 Acq: 18 Dec 2015 4:01

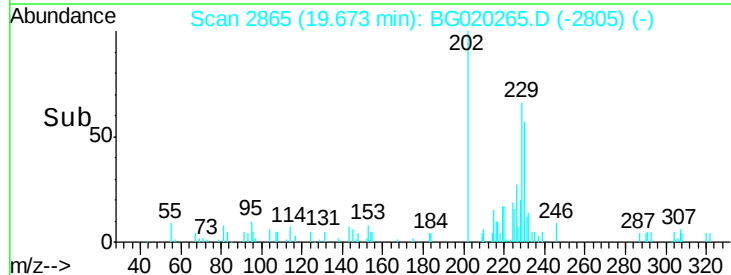
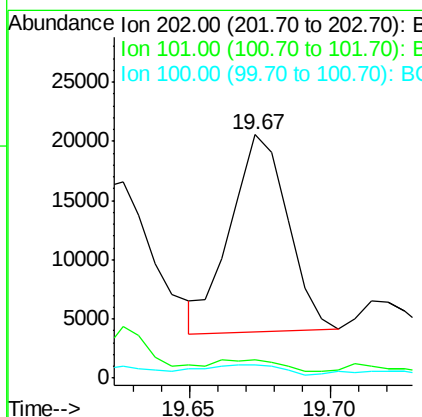
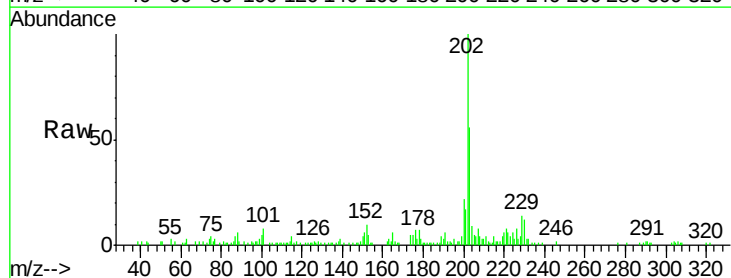
Instrument :
 BNA_G
 ClientSampleId :
 D9N44DL

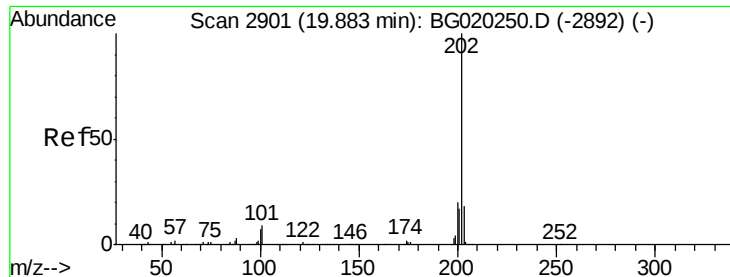
Tgt Ion:167 Resp: 549235
 Ion Ratio Lower Upper
 167 100
 166 23.0 17.0 25.6
 139 13.1 10.1 15.1



#77
 Fluoranthene
 Concen: 2.73 ng/ul
 RT: 19.67 min Scan# 2865
 Delta R.T. 0.15 min
 Lab File: BG020265.D
 Acq: 18 Dec 2015 4:01

Tgt Ion:202 Resp: 23340
 Ion Ratio Lower Upper
 202 100
 101 7.7 6.2 9.4
 100 5.4 5.1 7.7

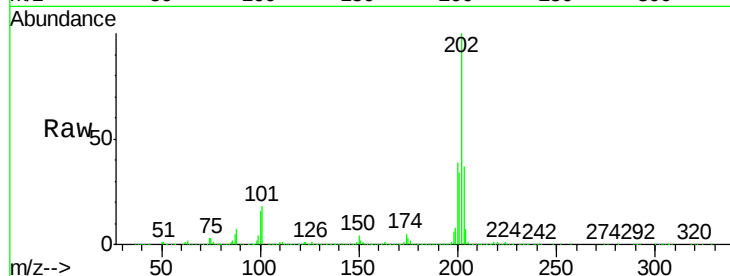




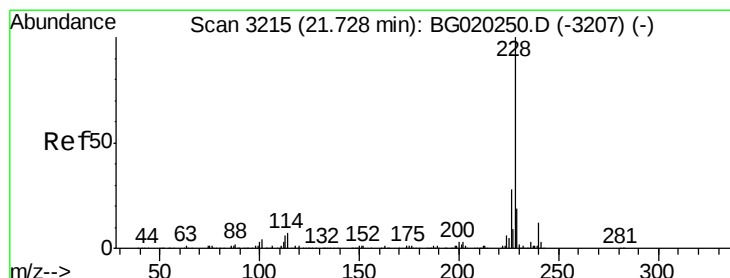
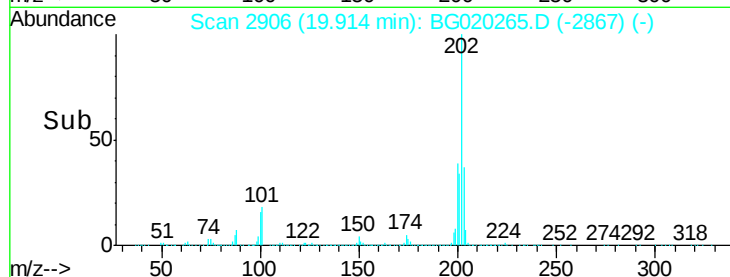
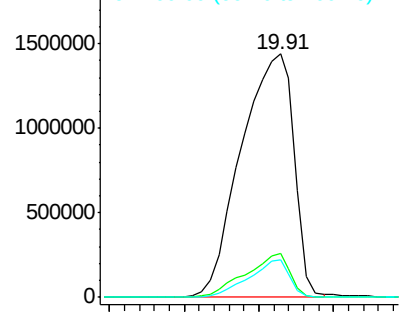
#80
Pyrene
Concen: 335.03 ng/ul
RT: 19.91 min Scan# 2906
Delta R.T. 0.03 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Instrument :
BNA_G
ClientSampleId :
D9N44DL

Tgt Ion:202 Resp: 3522177
Ion Ratio Lower Upper
202 100
101 18.2 7.0 10.4#
100 15.7 6.4 9.6#

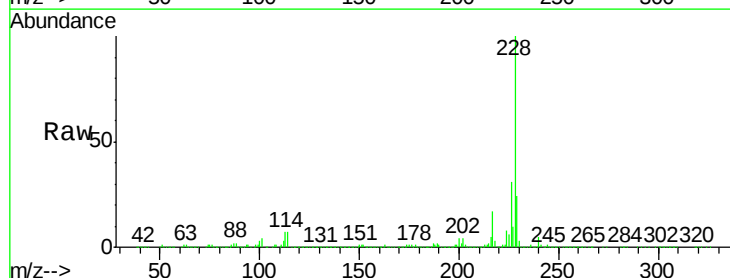


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B

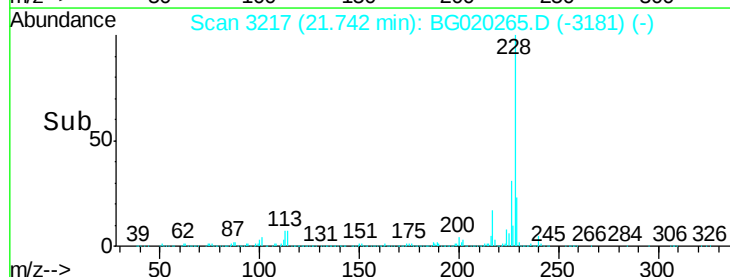
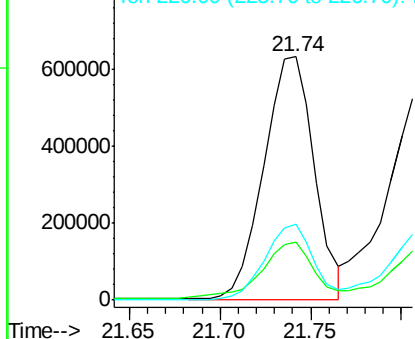


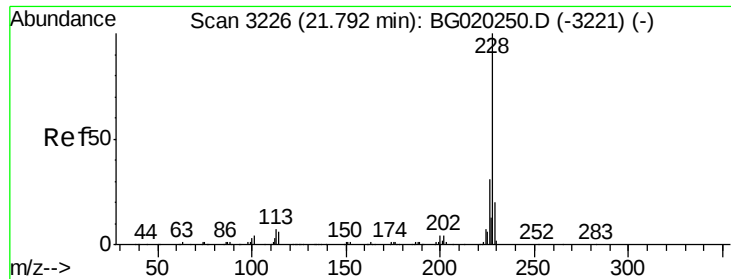
#83
Benzo(a)anthracene
Concen: 120.74 ng/ul
RT: 21.74 min Scan# 3217
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion:228 Resp: 1223776
Ion Ratio Lower Upper
228 100
229 23.7 15.8 23.8
226 31.0 21.8 32.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 107.32 ng/ul

RT: 21.81 min Scan# 3228

Delta R.T. 0.01 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

Instrument :

BNA_G

ClientSampleId :

D9N44DL

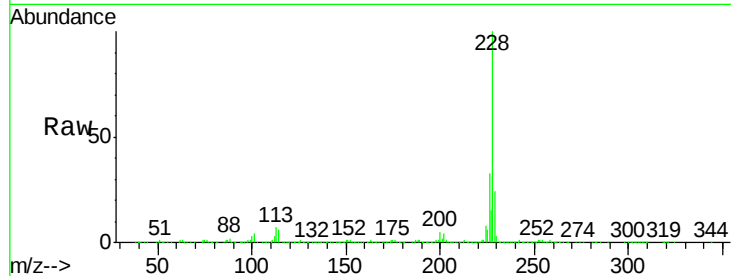
Tgt Ion:228 Resp: 1024400

Ion Ratio Lower Upper

228 100

226 32.6 23.9 35.9

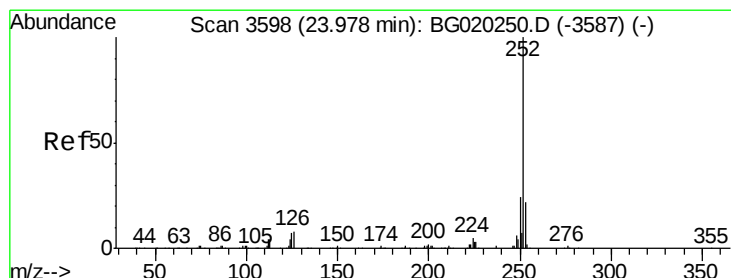
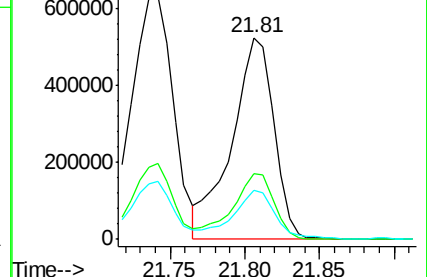
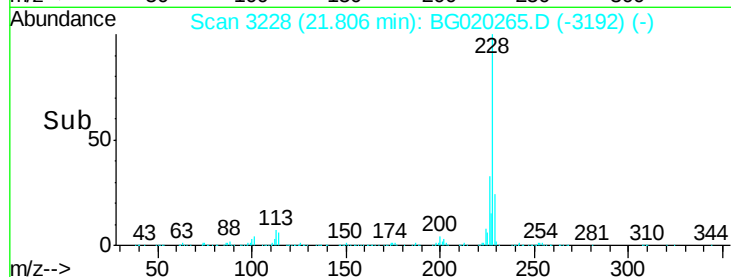
229 24.3 15.6 23.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 61.91 ng/ul

RT: 23.99 min Scan# 3600

Delta R.T. 0.01 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

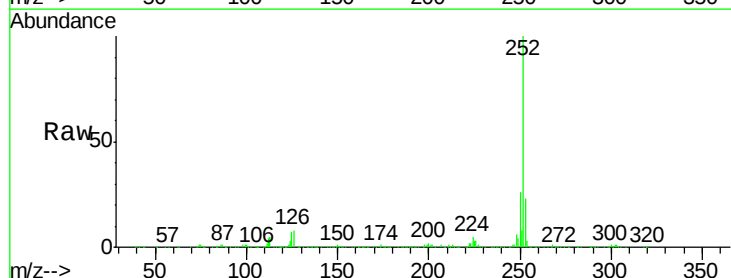
Tgt Ion:252 Resp: 621849

Ion Ratio Lower Upper

252 100

253 23.2 16.7 25.1

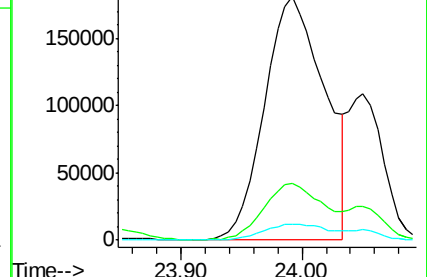
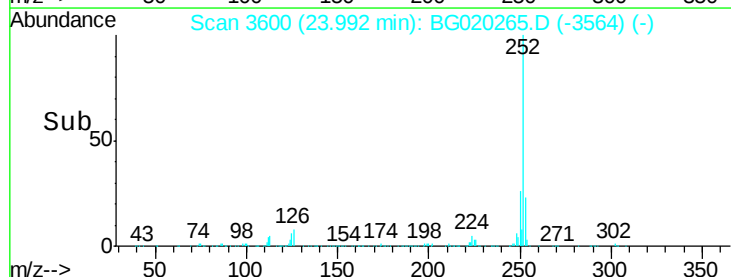
125 6.6 6.2 9.2

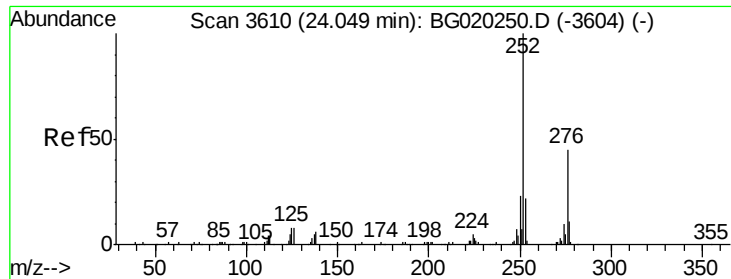


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

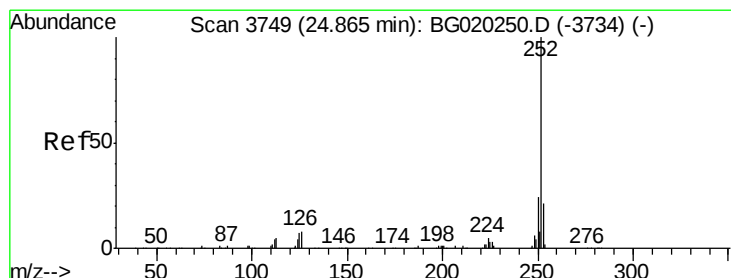
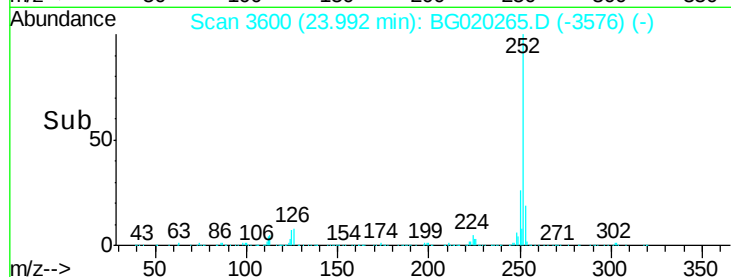
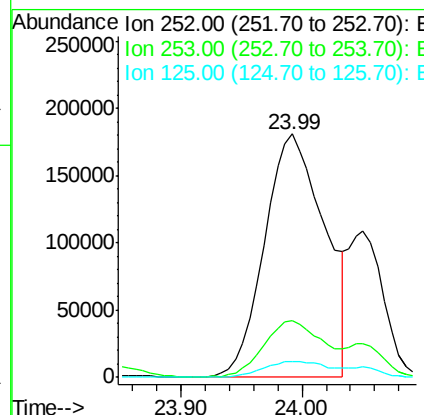
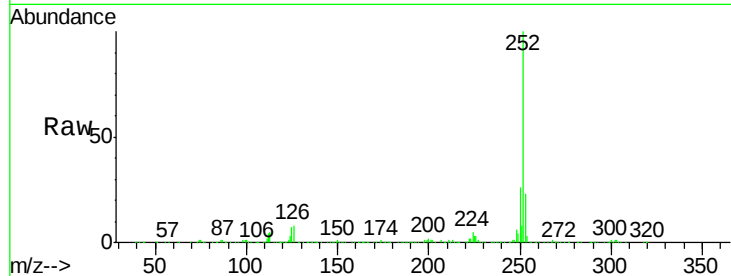




#89
Benzo(k)fluoranthene
Concen: 64.51 ng/u1
RT: 23.99 min Scan# 3600
Delta R.T. -0.06 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

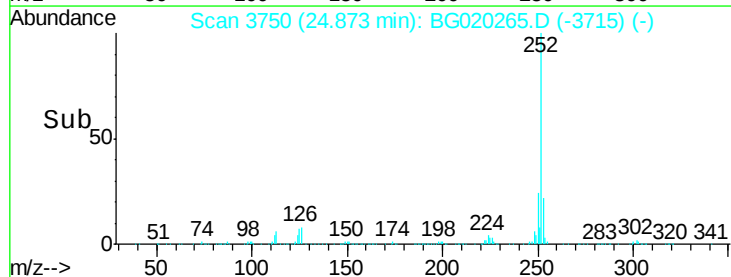
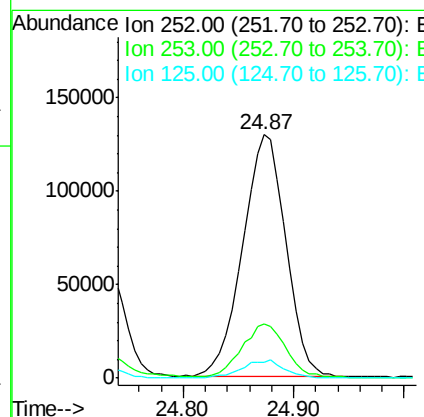
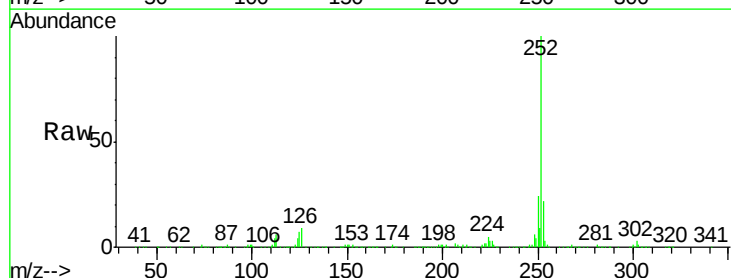
Instrument :
BNA_G
ClientSampleId :
D9N44DL

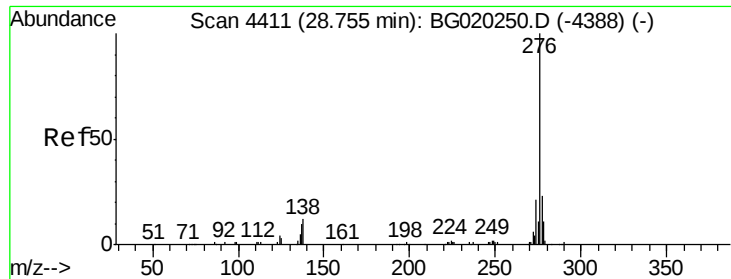
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	6.6	5.8	8.6



#91
Benzo(a)pyrene
Concen: 36.96 ng/u1
RT: 24.87 min Scan# 3750
Delta R.T. 0.01 min
Lab File: BG020265.D
Acq: 18 Dec 2015 4:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	6.7	6.2	9.4





#92

Indeno(1,2,3-cd)pyrene

Concen: 9.83 ng/ul

RT: 28.76 min Scan# 4411

Delta R.T. 0.00 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

Instrument :

BNA_G

ClientSampleId :

D9N44DL

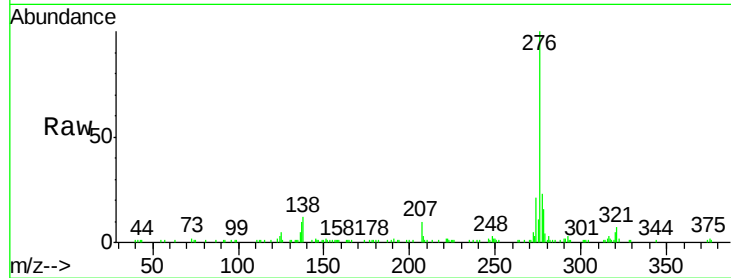
Tgt Ion:276 Resp: 111437

Ion Ratio Lower Upper

276 100

138 12.1 11.4 17.0

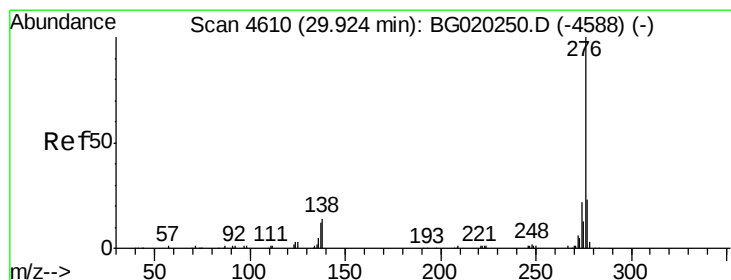
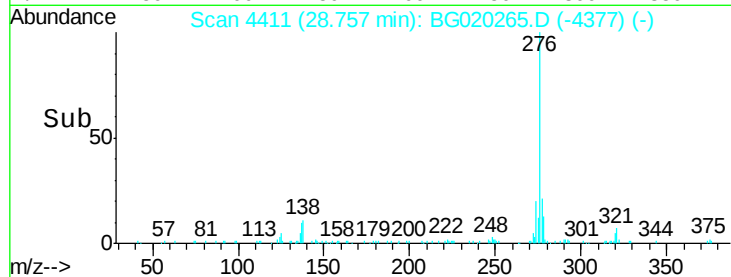
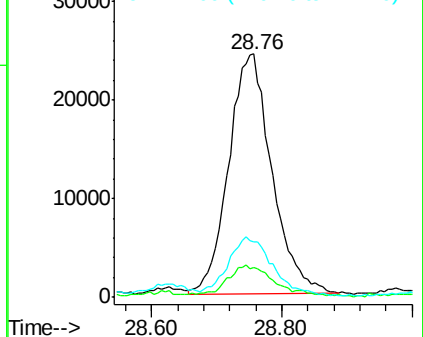
277 22.8 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#94

Benzo(g,h,i)perylene

Concen: 8.64 ng/ul

RT: 29.93 min Scan# 4611

Delta R.T. 0.01 min

Lab File: BG020265.D

Acq: 18 Dec 2015 4:01

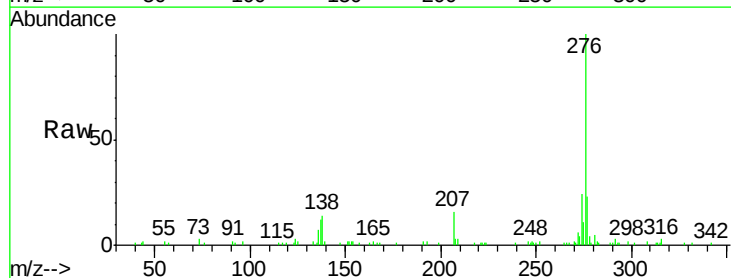
Tgt Ion:276 Resp: 80308

Ion Ratio Lower Upper

276 100

138 13.5 10.8 16.2

277 22.6 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

