

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
 Data File : BG020251.D
 Acq On : 17 Dec 2015 18:33
 Operator : UM/SJ
 Sample : G4767-15DL 10X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Quant Time: Dec 18 02:42:07 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	20564	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	90413	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.73	164	66199	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.49	188	143393	20.00	ng/ul	0.01
78) Chrysene-d12	21.76	240	177361	20.00	ng/ul	0.01
86) Perylene-d12	25.02	264	173522	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	3243	1.79	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	2261	2.09	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	2535	1.92	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	3039	1.96	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	1575	2.23	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	1726	2.20	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.54	165	3281	2.07	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	2935	1.64	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	12441	2.32	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	12099	1.94	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	2110	2.20	ng/ul	0.00
58) Fluorene-d10	15.72	176	10106	2.08	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.86	200	866	1.02	ng/ul	0.03
71) Anthracene-d10	17.59	188	13433	2.03	ng/ul	0.02
79) Pyrene-d10	19.86	212	16902	2.04	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	16810	1.94	ng/ul	0.00

Target Compounds

						Qvalue
17) Hexachloroethane	9.21	117	1361	2.34	ng/ul#	1
28) Naphthalene	10.99	128	3095026	655.51	ng/ul#	82
30) 4-Chloroaniline	10.99	127	545802	299.63	ng/ul#	14
34) 2-Methylnaphthalene	12.57	142	1144382	317.31	ng/ul	97
35) 1-Methylnaphthalene	12.79	142	570394	164.51	ng/ul#	96
41) 1,1'-Biphenyl	13.57	154	498593	99.83	ng/ul	99
43) 2-Nitroaniline	13.76	65	2556	1.88	ng/ul#	36
46) 2,6-Dinitrotoluene	14.13	165	3029	2.68	ng/ul#	69
48) Acenaphthylene	14.45	152	192232	29.04	ng/ul#	96
50) Acenaphthene	14.81	153	1843845	414.05	ng/ul	92
55) 2,4-Dinitrotoluene	15.08	165	3340	2.01	ng/ul#	36
59) Fluorene	15.79	166	1737923	326.70	ng/ul#	98
61) 4-Nitroaniline	15.79	138	25498	21.48	ng/ul#	13
65) N-Nitrosodiphenylamine	15.98	169	9303	2.33	ng/ul#	1
70) Phenanthrene	17.62	178	622661	79.39	ng/ul	99
72) Anthracene	17.62	178	622661	78.27	ng/ul	97
75) Carbazole	17.88	167	399280	59.73	ng/ul	98
77) Fluoranthene	19.55	202	3444422	375.76	ng/ul#	75
80) Pyrene	19.91	202	2759672	257.08	ng/ul#	86
83) Benzo(a)anthracene	21.74	228	875594	84.61	ng/ul	96
85) Chrysene	21.74	228	867809	89.04	ng/ul	98
88) Benzo(b)fluoranthene	23.99	252	435726	41.72	ng/ul	97
89) Benzo(k)fluoranthene	24.05	252	129663	12.94	ng/ul	99

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
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Misc :
ALS Vial : 4 Sample Multiplier: 1

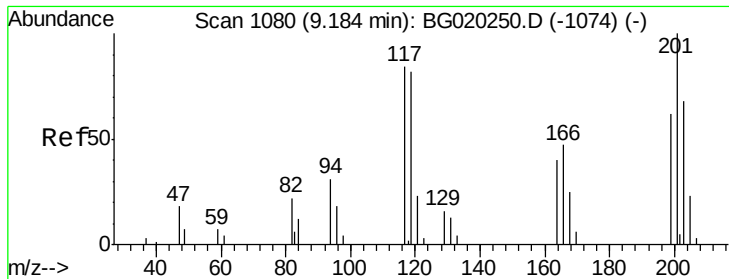
Instrument :
BNA_G
ClientSampleId :
D9N37DL

Quant Time: Dec 18 02:42:07 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)
91) Benzo(a)pyrene	24.87	252	252169	25.47	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.74	276	80093	6.79	ng/ul	98
93) Dibenzo(a,h)anthracene	28.80	278	25069	2.56	ng/ul	93
94) Benzo(g,h,i)perylene	29.92	276	60856	6.30	ng/ul	100

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

```
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Data File : BG020251.D  
Acq On    : 17 Dec 2015  18:33  
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Sample    : G4767-15DL 10X  
Misc      :  
ALS Vial  : 4      Sample Multiplier: 1
```



#17

Hexachloroethane

Concen: 2.34 ng/ul

RT: 9.21 min Scan# 1084

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

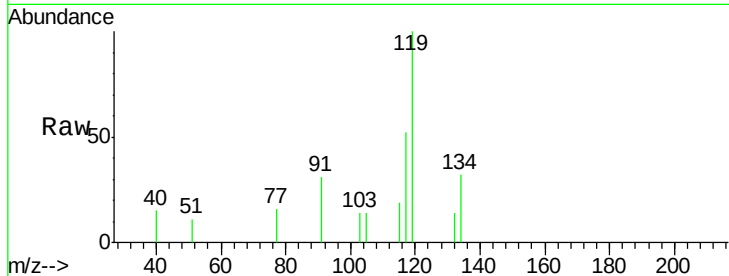
Tgt Ion:117 Resp: 1361

Ion Ratio Lower Upper

117 100

201 0.0 102.7 154.1#

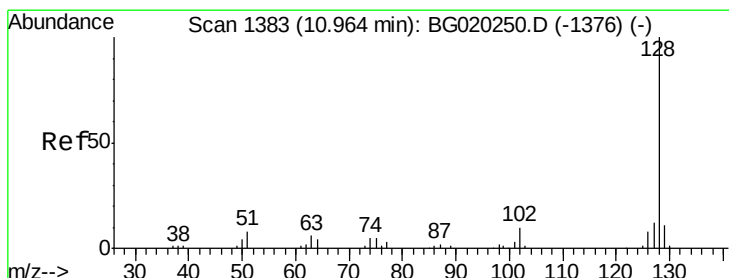
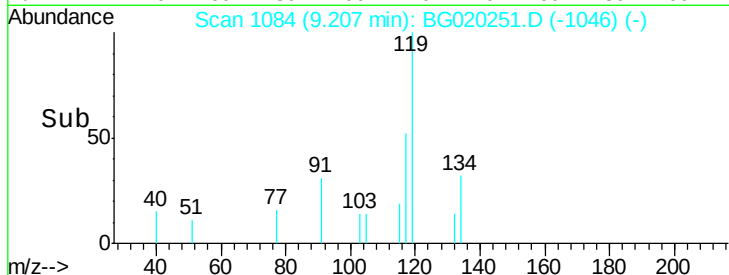
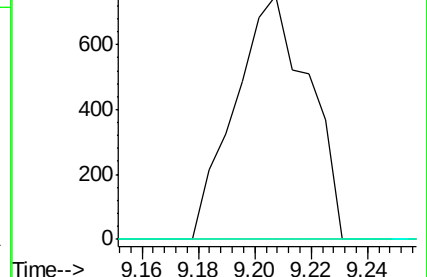
199 0.0 65.8 98.8#



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



#28

Naphthalene

Concen: 655.51 ng/ul

RT: 10.99 min Scan# 1388

Delta R.T. 0.03 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

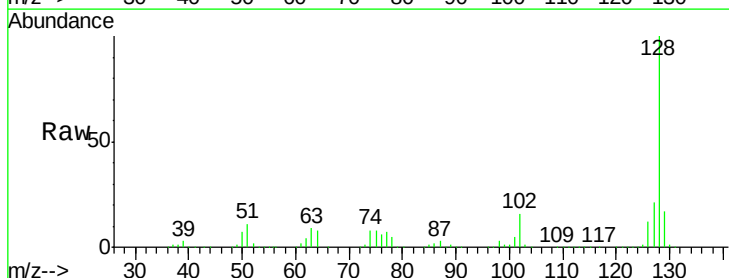
Tgt Ion:128 Resp: 3095026

Ion Ratio Lower Upper

128 100

129 16.5 8.6 12.8#

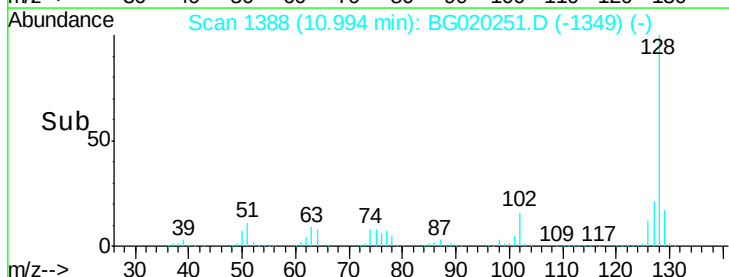
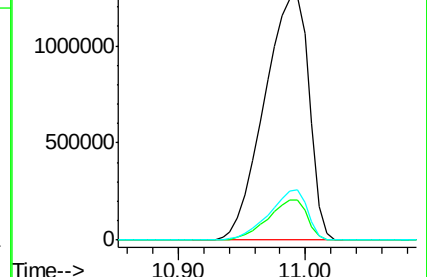
127 20.7 10.1 15.1#

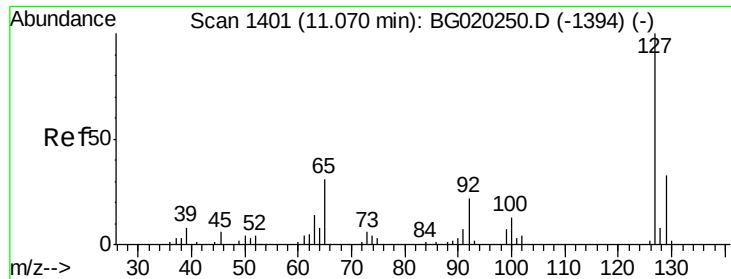


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

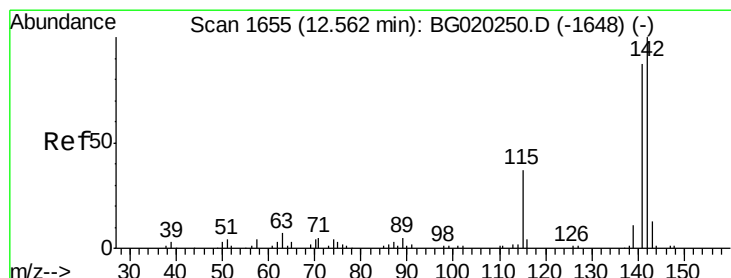
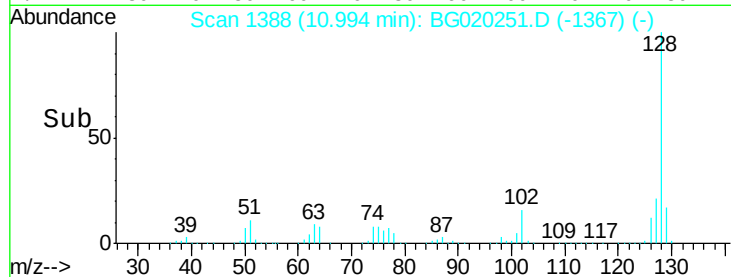
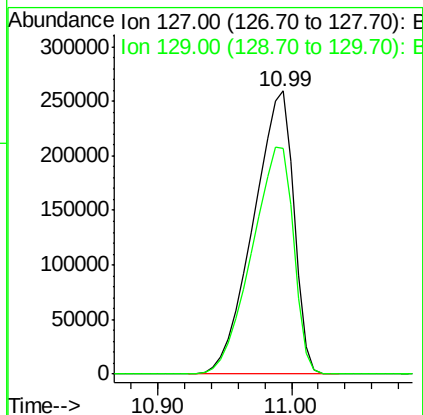
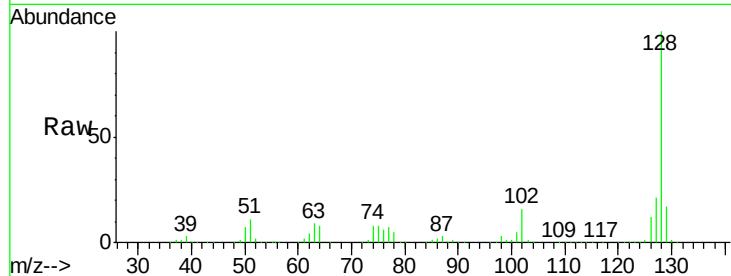




#30
 4-Chloroaniline
 Concen: 299.63 ng/ul
 RT: 10.99 min Scan# 1388
 Delta R.T. -0.08 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

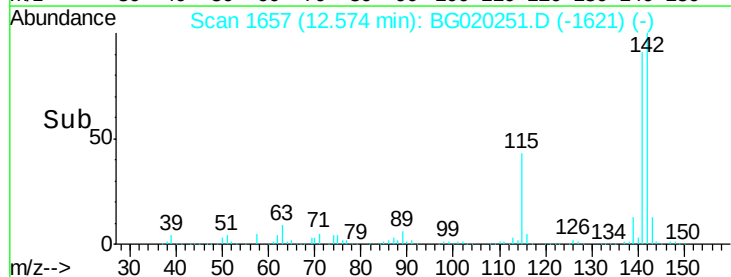
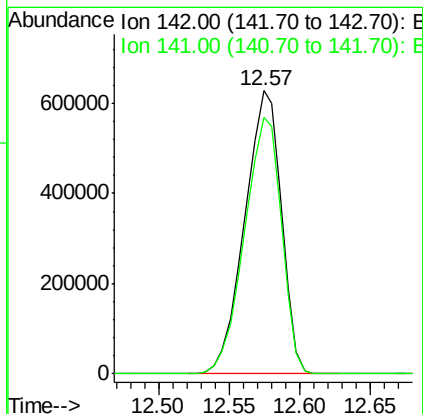
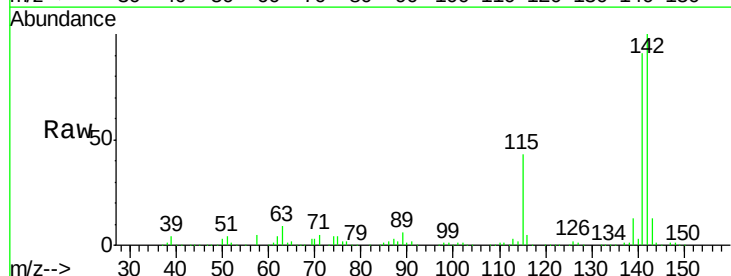
Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

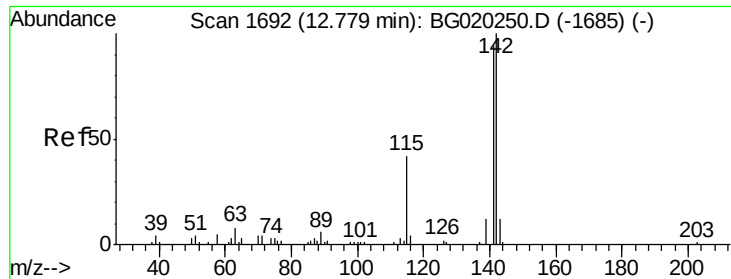
Tgt Ion:127 Resp: 545802
 Ion Ratio Lower Upper
 127 100
 129 79.9 25.7 38.5#



#34
 2-Methylnaphthalene
 Concen: 317.31 ng/ul
 RT: 12.57 min Scan# 1657
 Delta R.T. 0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Tgt Ion:142 Resp: 1144382
 Ion Ratio Lower Upper
 142 100
 141 90.8 74.9 112.3

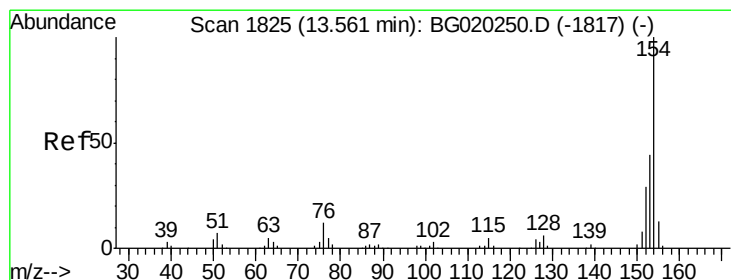
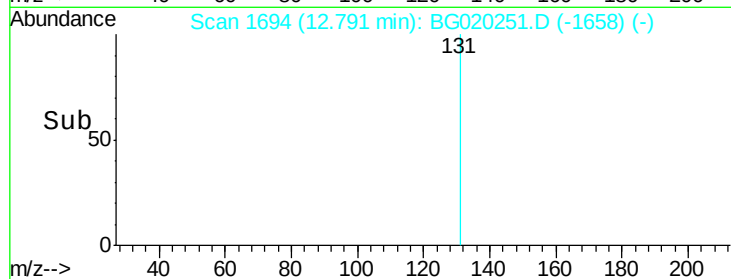
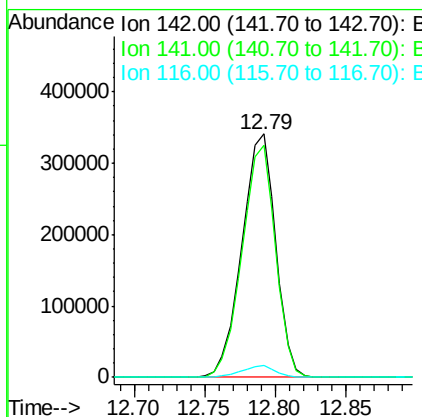
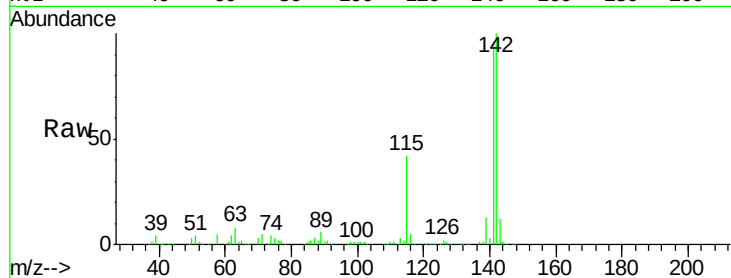




#35
 1-Methylnaphthalene
 Concen: 164.51 ng/ul
 RT: 12.79 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

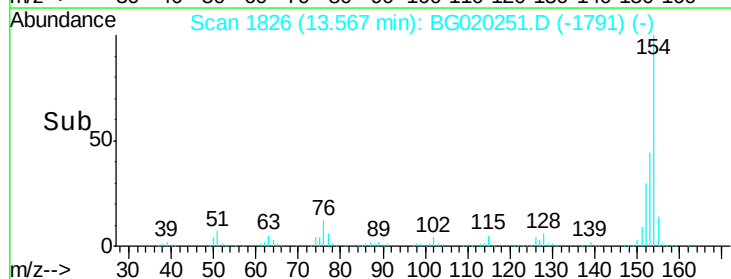
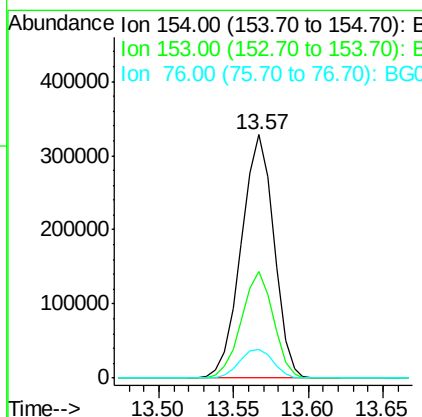
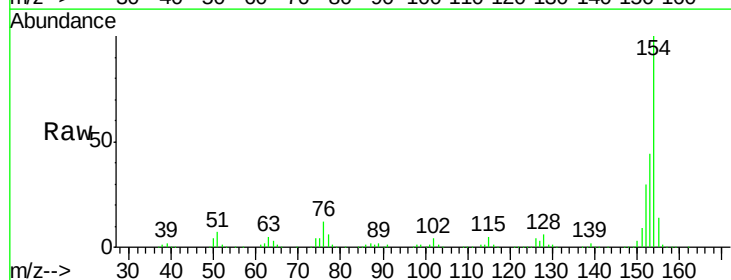
Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

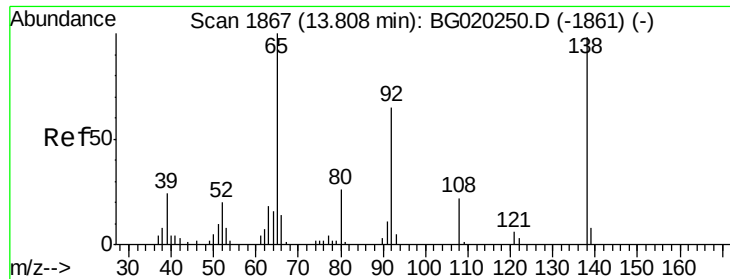
Tgt Ion:142 Resp: 570394
 Ion Ratio Lower Upper
 142 100
 141 95.5 73.0 109.6
 116 4.7 3.0 4.6#



#41
 1,1'-Biphenyl
 Concen: 99.83 ng/ul
 RT: 13.57 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Tgt Ion:154 Resp: 498593
 Ion Ratio Lower Upper
 154 100
 153 43.7 35.5 53.3
 76 11.8 10.4 15.6





#43

2-Nitroaniline

Concen: 1.88 ng/ul

RT: 13.76 min Scan# 1859

Delta R.T. -0.05 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

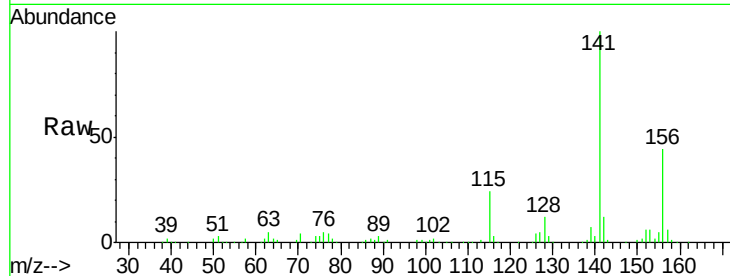
Tgt Ion: 65 Resp: 2556

Ion Ratio Lower Upper

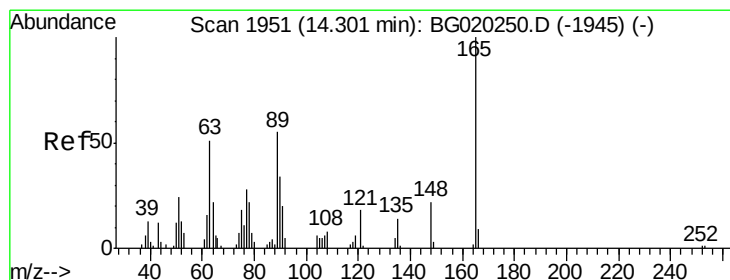
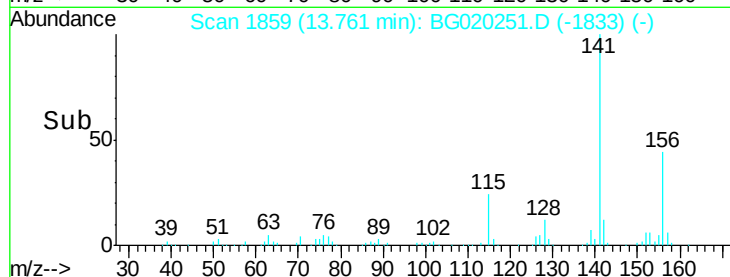
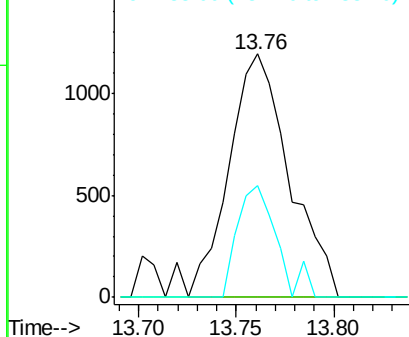
65 100

92 0.0 53.1 79.7#

138 46.1 76.6 114.8#



Abundance Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC
Ion 138.00 (137.70 to 138.70): BGC



#46

2,6-Dinitrotoluene

Concen: 2.68 ng/ul

RT: 14.13 min Scan# 1921

Delta R.T. -0.18 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

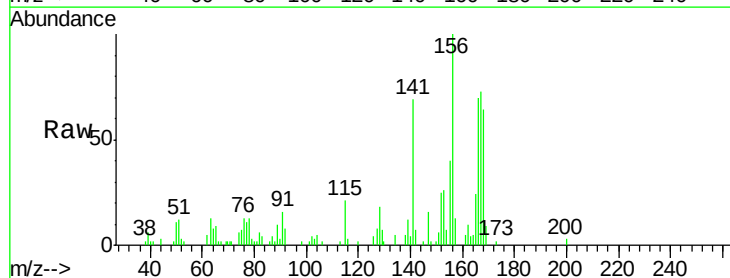
Tgt Ion: 165 Resp: 3029

Ion Ratio Lower Upper

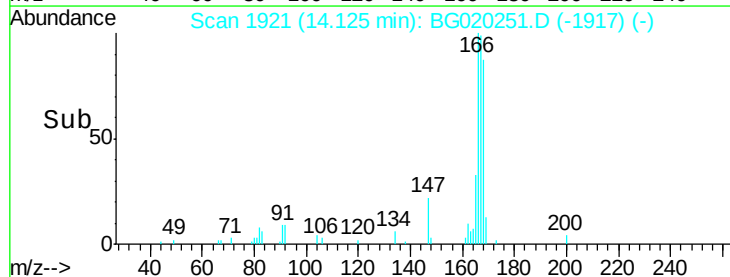
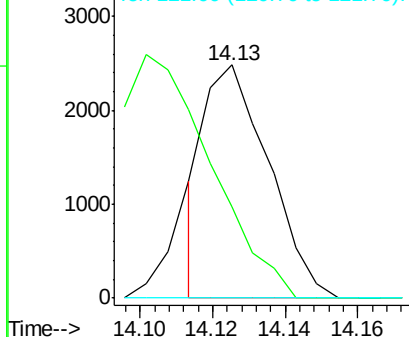
165 100

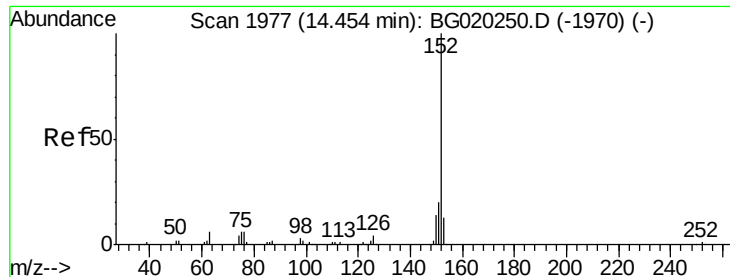
89 39.4 47.0 70.4#

121 0.0 17.0 25.6#



Abundance Ion 165.00 (164.70 to 165.70): BGC
Ion 89.00 (88.70 to 89.70): BGC
Ion 121.00 (120.70 to 121.70): BGC





#48

Acenaphthylene

Concen: 29.04 ng/ul

RT: 14.45 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

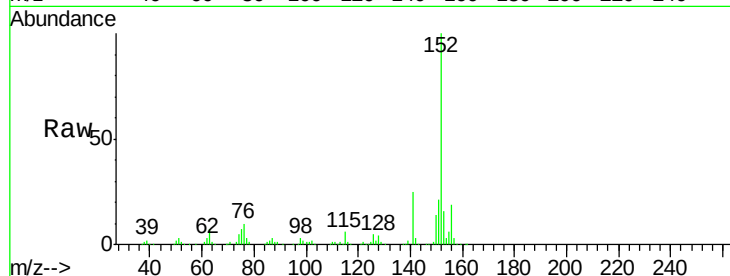
Tgt Ion:152 Resp: 192232

Ion Ratio Lower Upper

152 100

151 21.2 16.4 24.6

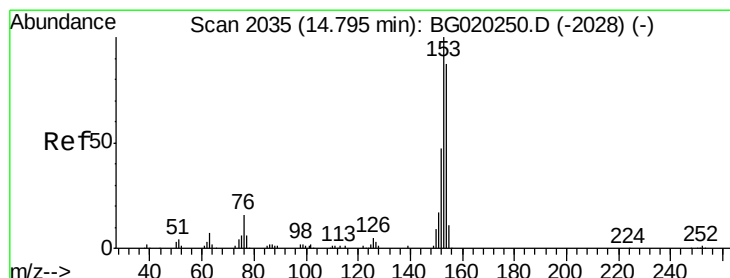
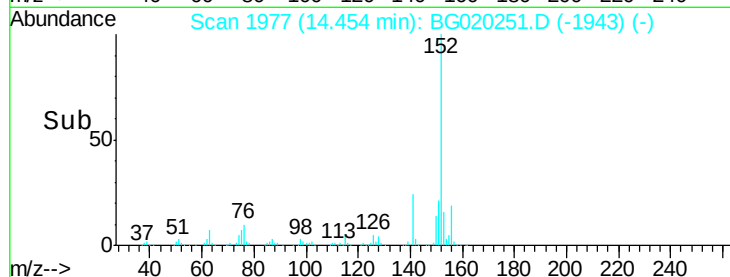
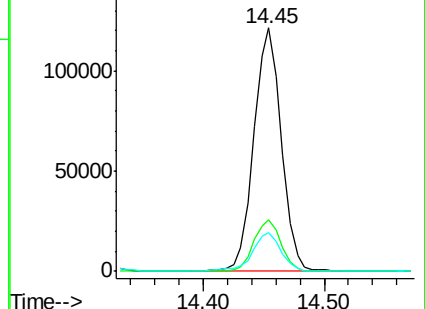
153 15.9 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 414.05 ng/ul

RT: 14.81 min Scan# 2038

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

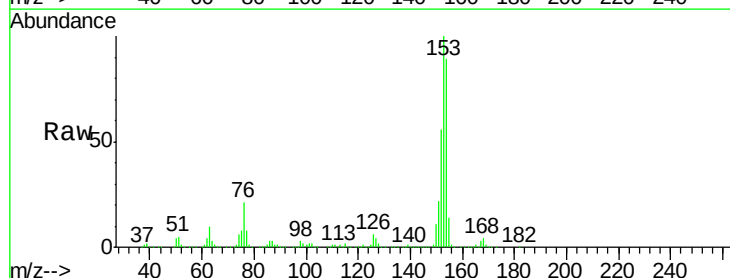
Tgt Ion:153 Resp: 1843845

Ion Ratio Lower Upper

153 100

152 56.4 37.6 56.4

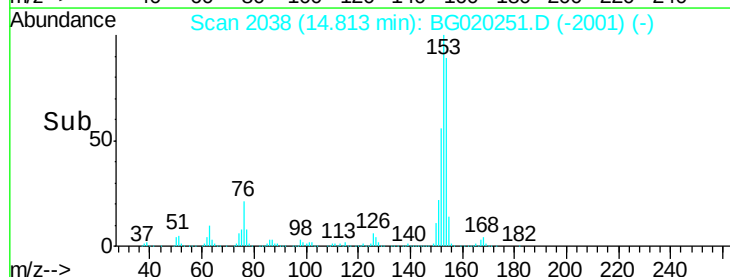
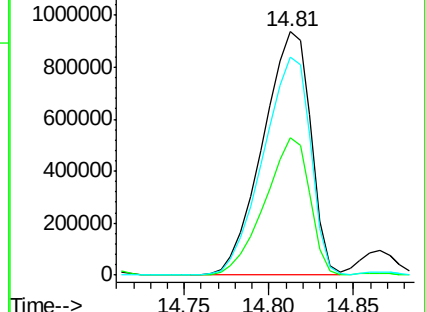
154 89.4 67.9 101.9

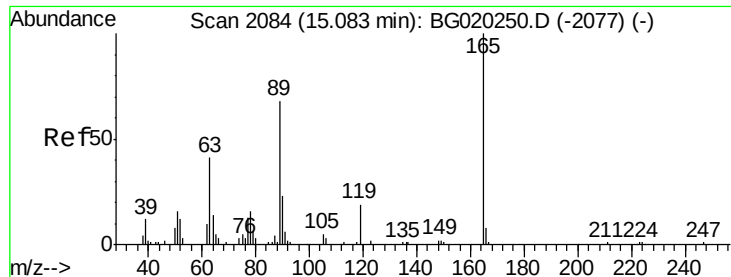


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

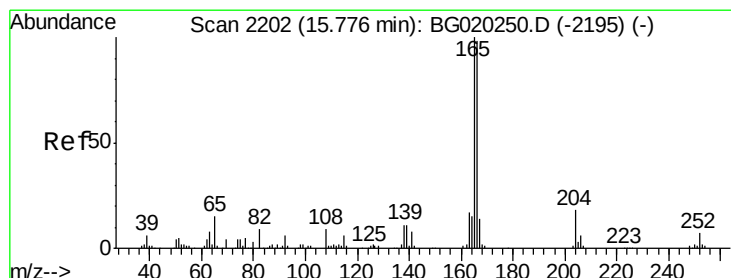
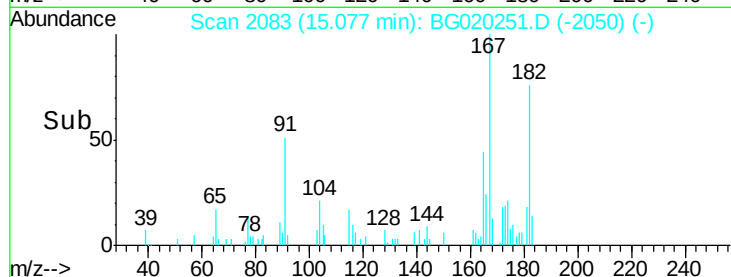
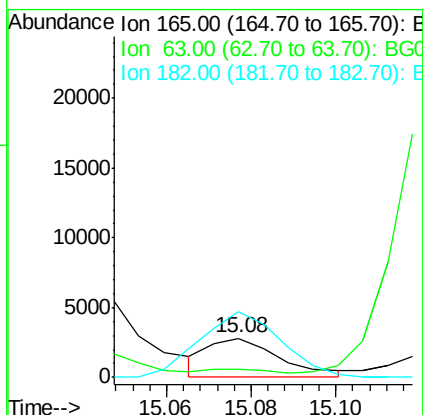
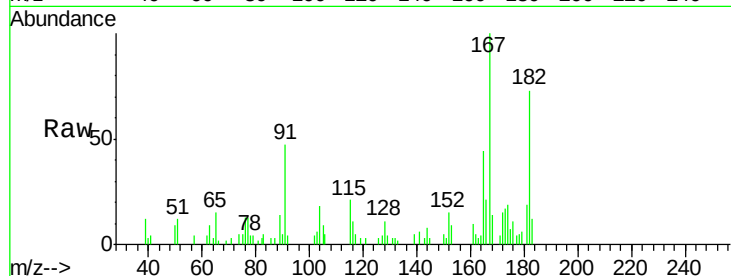




#55
 2,4-Dinitrotoluene
 Concen: 2.01 ng/ul
 RT: 15.08 min Scan# 2083
 Delta R.T. -0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

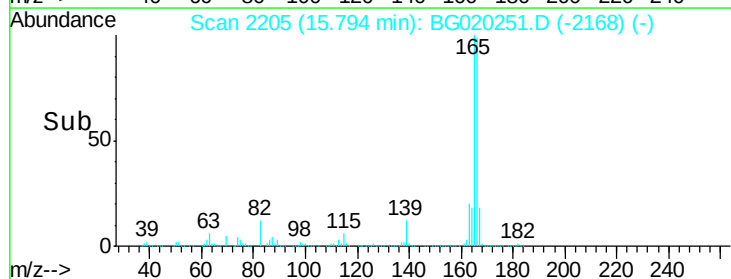
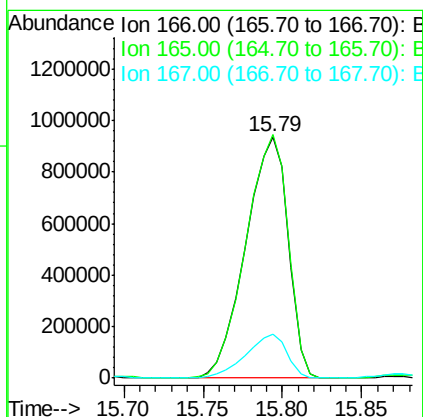
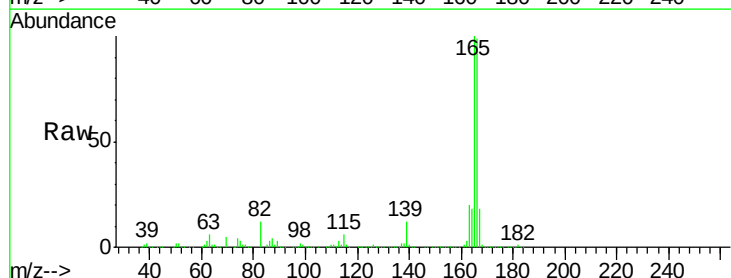
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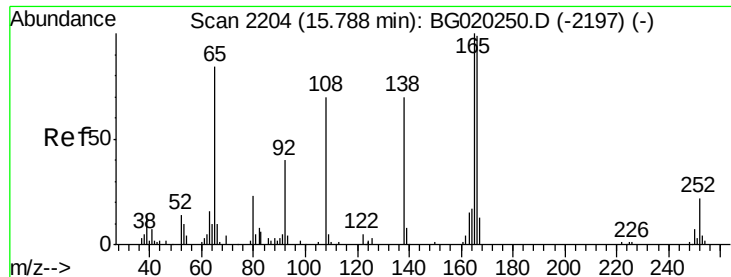
Tgt Ion:165 Resp: 3340
 Ion Ratio Lower Upper
 165 100
 63 19.4 35.8 53.8#
 182 166.6 2.2 3.2#



#59
 Fluorene
 Concen: 326.70 ng/ul
 RT: 15.79 min Scan# 2205
 Delta R.T. 0.02 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Tgt Ion:166 Resp: 1737923
 Ion Ratio Lower Upper
 166 100
 165 100.9 81.4 122.0
 167 18.2 11.2 16.8#





#61

4-Nitroaniline

Concen: 21.48 ng/ul

RT: 15.79 min Scan# 2205

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

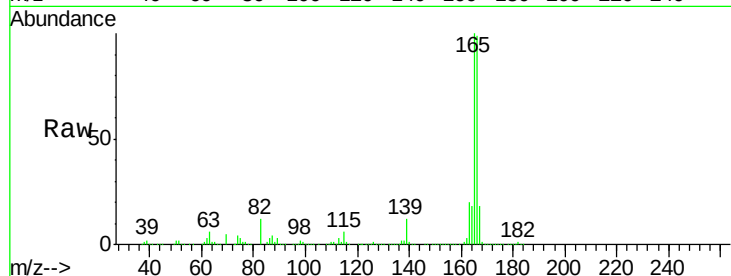
Tgt Ion:138 Resp: 25498

Ion Ratio Lower Upper

138 100

92 1.7 45.2 67.8#

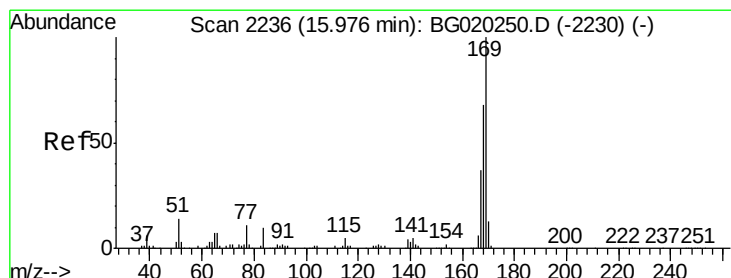
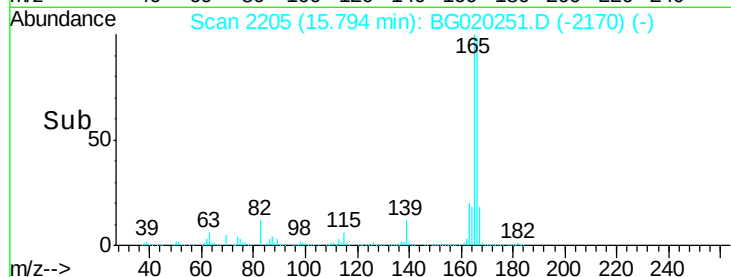
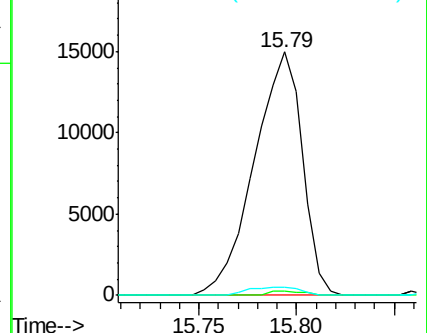
108 3.2 75.4 113.0#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BGC

Ion 108.00 (107.70 to 108.70): E



#65

N-Nitrosodiphenylamine

Concen: 2.33 ng/ul

RT: 15.98 min Scan# 2237

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

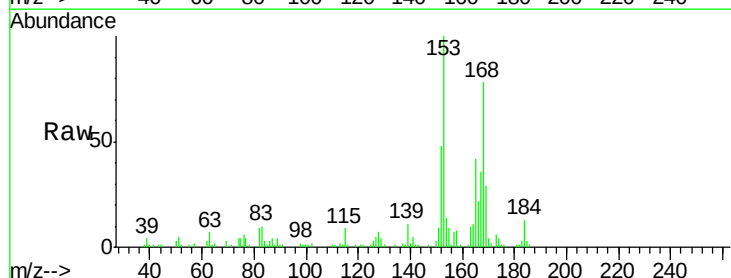
Tgt Ion:169 Resp: 9303

Ion Ratio Lower Upper

169 100

168 270.2 54.3 81.5#

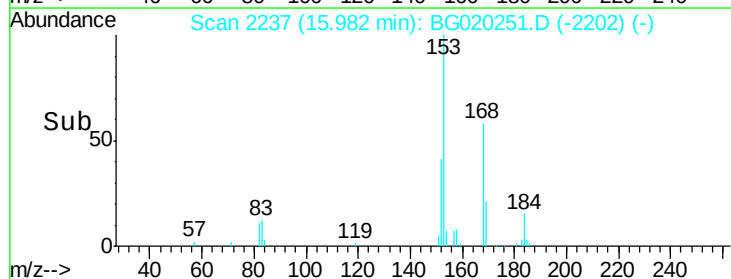
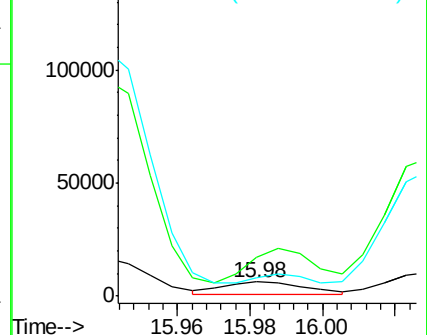
167 124.6 31.8 47.8#

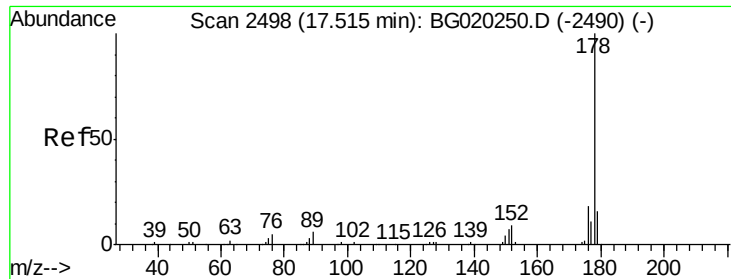


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 79.39 ng/ul

RT: 17.62 min Scan# 2516

Delta R.T. 0.11 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

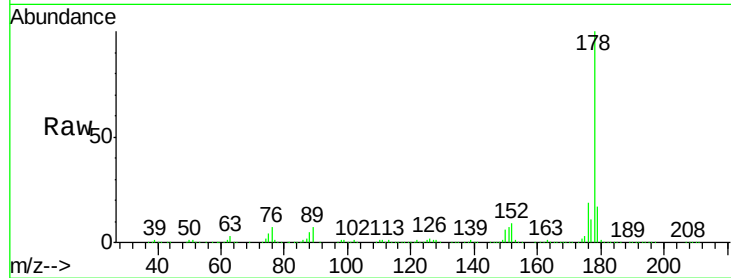
Tgt Ion:178 Resp: 622661

Ion Ratio Lower Upper

178 100

179 16.7 12.9 19.3

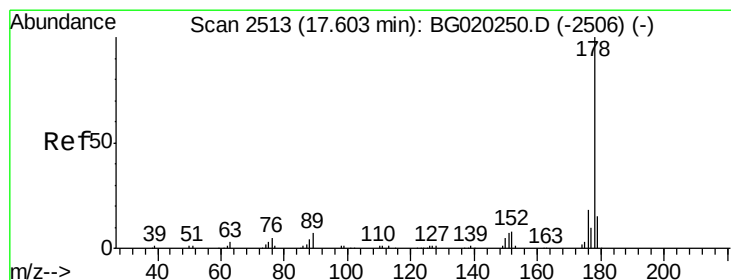
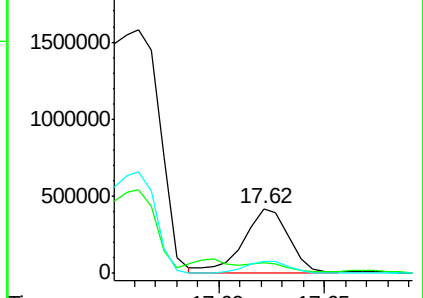
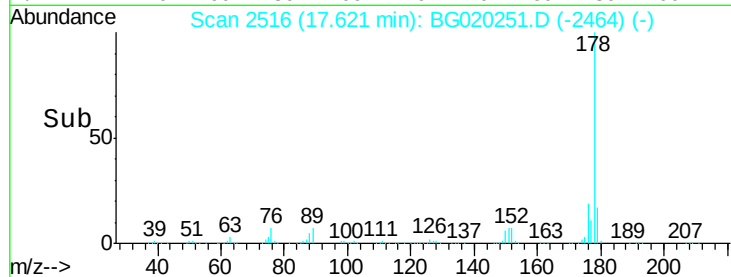
176 19.2 15.3 22.9



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: 78.27 ng/ul

RT: 17.62 min Scan# 2516

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

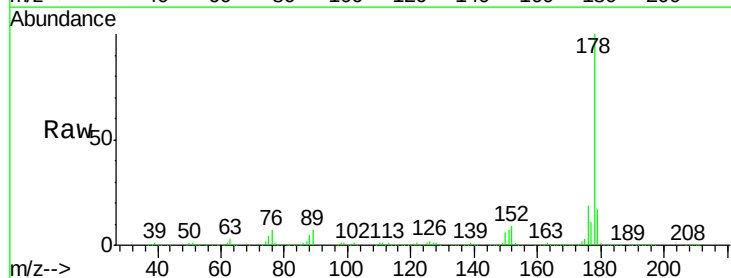
Tgt Ion:178 Resp: 622661

Ion Ratio Lower Upper

178 100

179 16.7 12.3 18.5

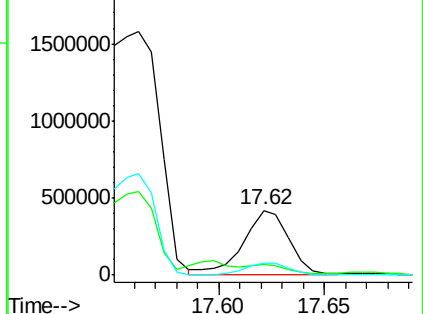
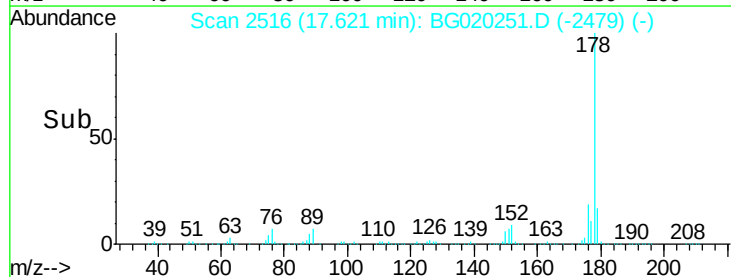
176 19.2 14.3 21.5

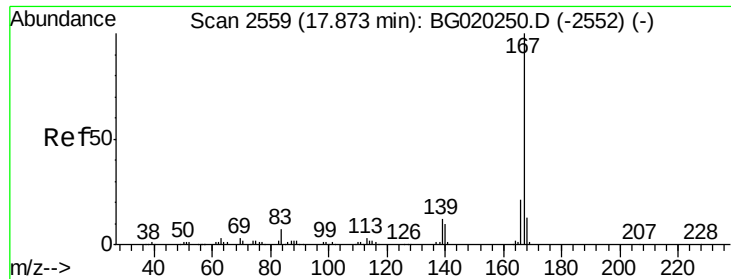


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 59.73 ng/ul

RT: 17.88 min Scan# 2560

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

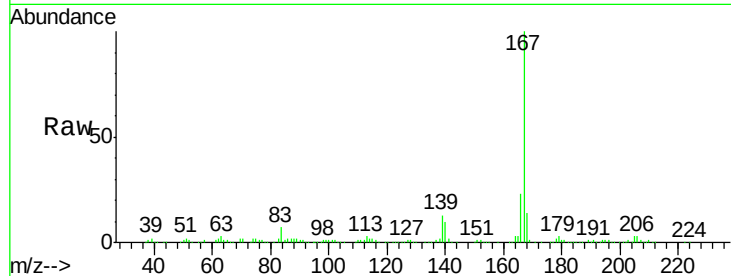
Tgt Ion:167 Resp: 399280

Ion Ratio Lower Upper

167 100

166 22.7 17.0 25.6

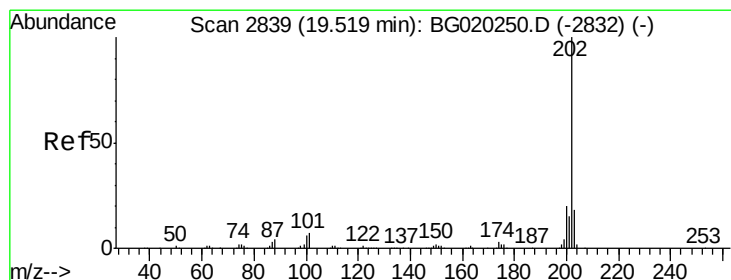
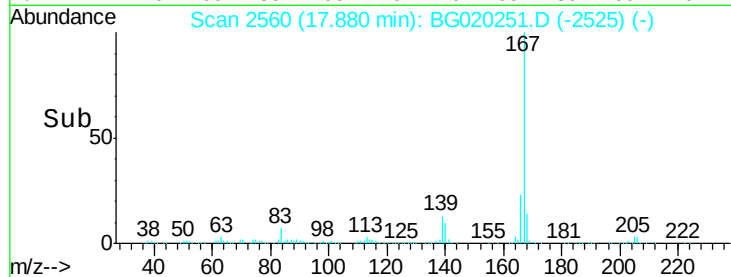
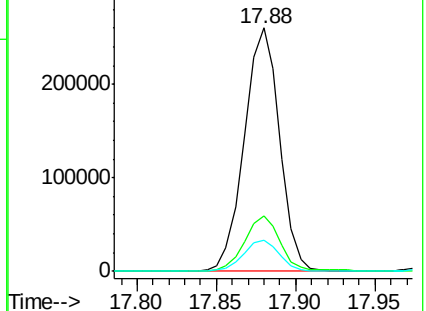
139 13.0 10.1 15.1



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



#77

Fluoranthene

Concen: 375.76 ng/ul

RT: 19.55 min Scan# 2844

Delta R.T. 0.03 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

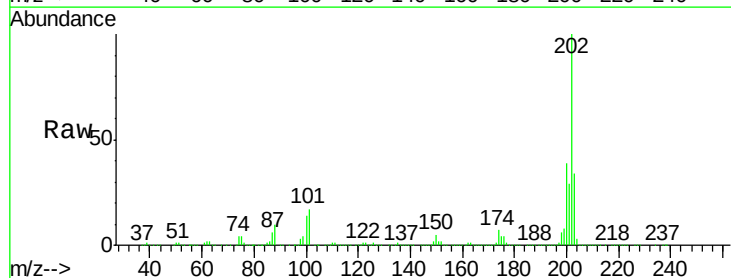
Tgt Ion:202 Resp: 3444422

Ion Ratio Lower Upper

202 100

101 17.2 6.2 9.4#

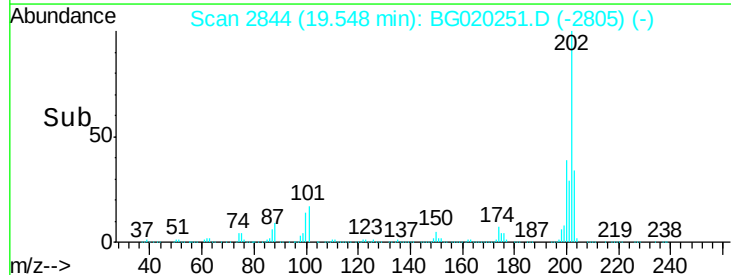
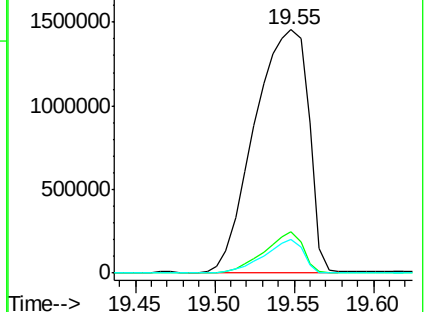
100 13.8 5.1 7.7#

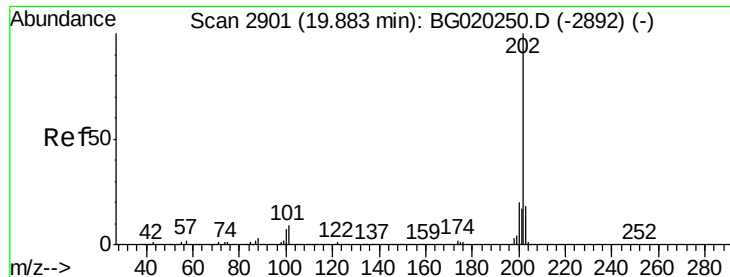


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 257.08 ng/ul

RT: 19.91 min Scan# 2905

Delta R.T. 0.02 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

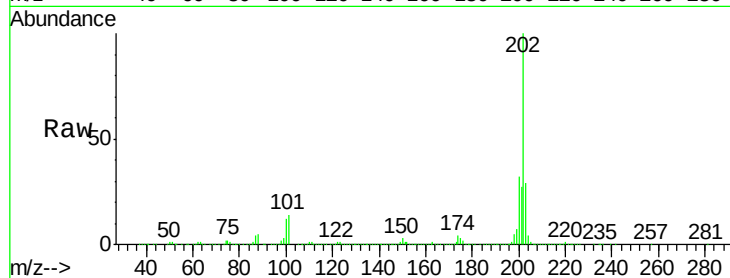
Tgt Ion:202 Resp: 2759672

Ion Ratio Lower Upper

202 100

101 14.5 7.0 10.4#

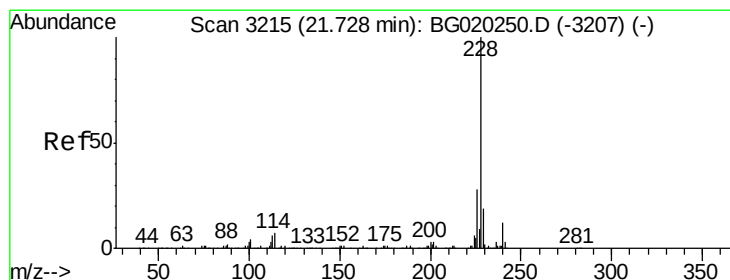
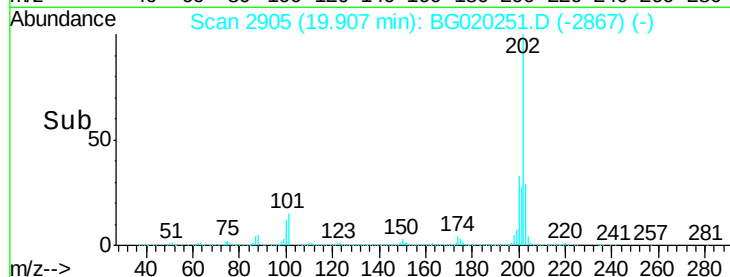
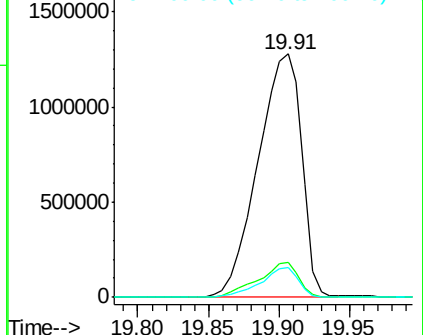
100 12.3 6.4 9.6#



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: 84.61 ng/ul

RT: 21.74 min Scan# 3217

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

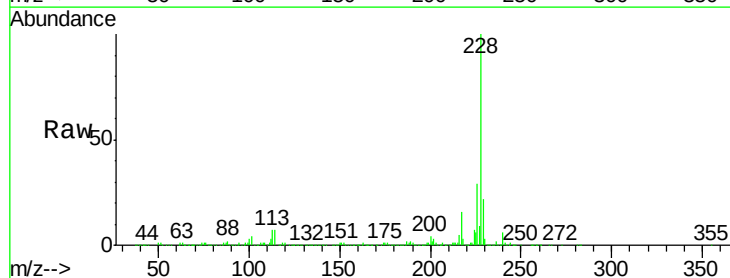
Tgt Ion:228 Resp: 875594

Ion Ratio Lower Upper

228 100

229 21.6 15.8 23.8

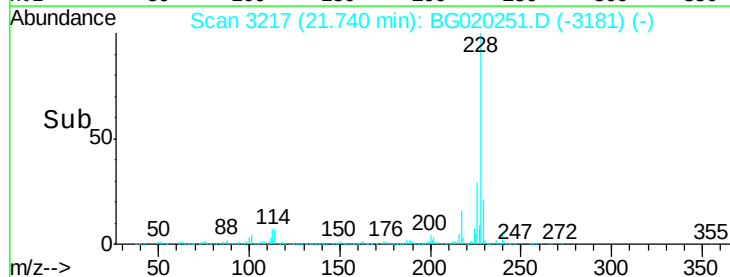
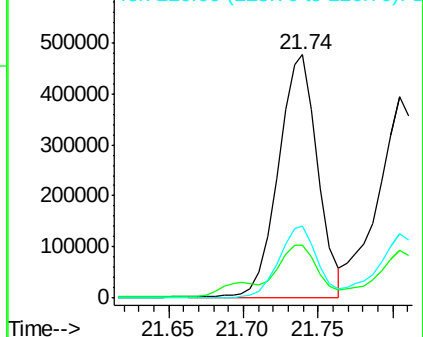
226 29.4 21.8 32.6

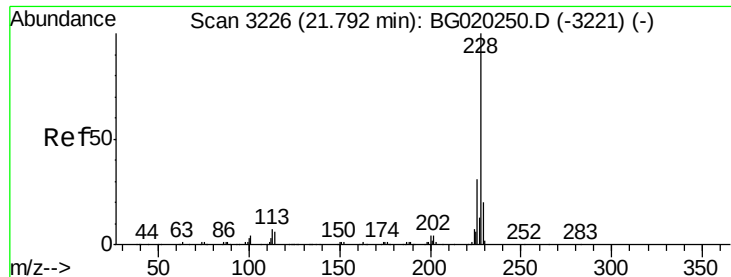


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 89.04 ng/ul

RT: 21.74 min Scan# 3217

Delta R.T. -0.05 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

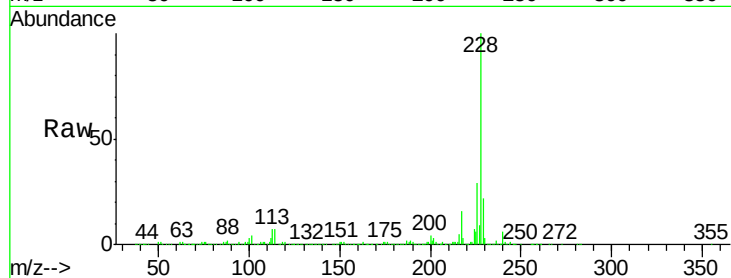
Tgt Ion:228 Resp: 867809

Ion Ratio Lower Upper

228 100

226 29.4 23.9 35.9

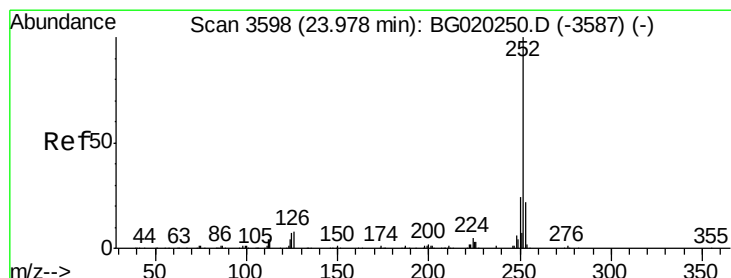
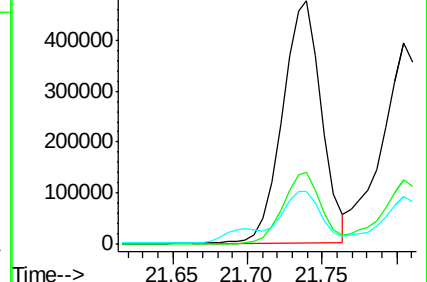
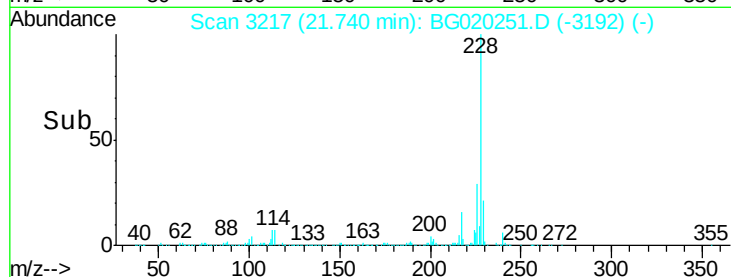
229 21.6 15.6 23.4



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: 41.72 ng/ul

RT: 23.99 min Scan# 3600

Delta R.T. 0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

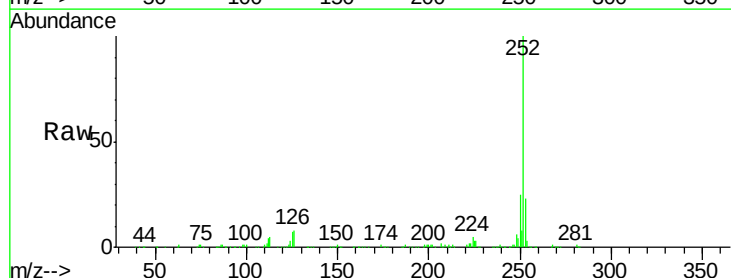
Tgt Ion:252 Resp: 435726

Ion Ratio Lower Upper

252 100

253 22.5 16.7 25.1

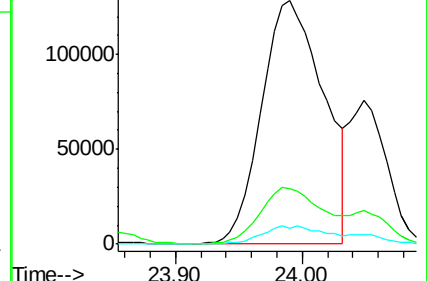
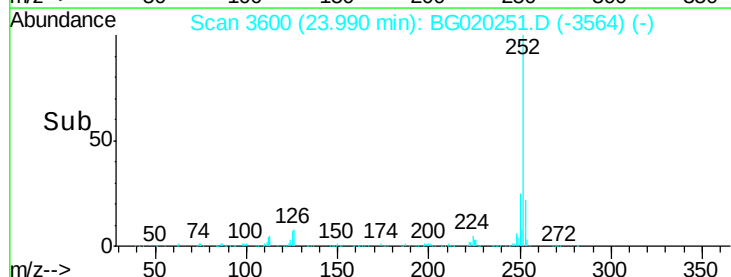
125 6.7 6.2 9.2

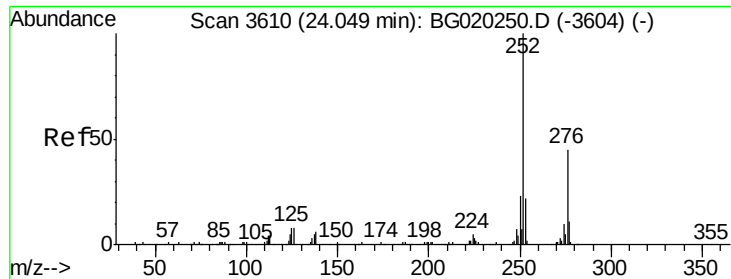


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

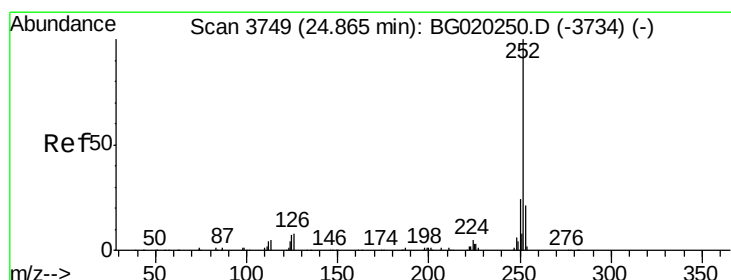
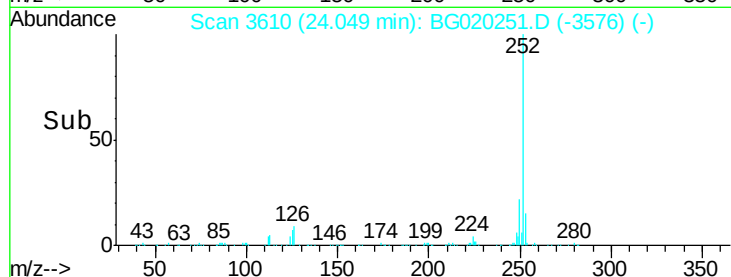
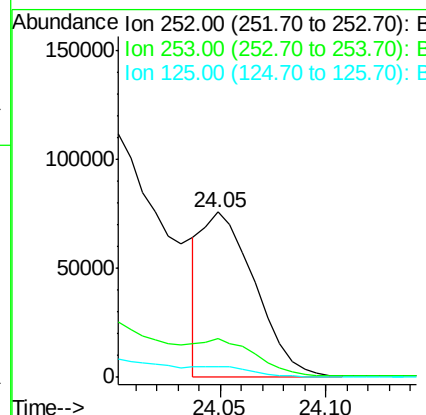
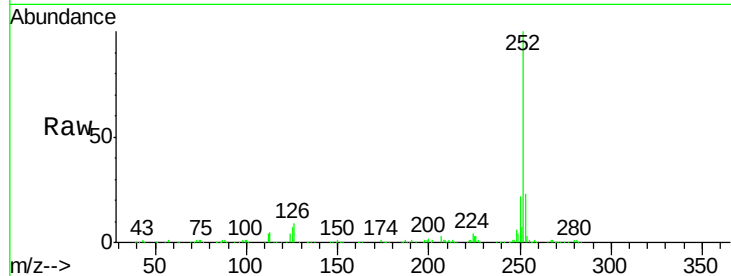




#89
Benzo(k)fluoranthene
Concen: 12.94 ng/ul
RT: 24.05 min Scan# 3610
Delta R.T. 0.00 min
Lab File: BG020251.D
Acq: 17 Dec 2015 18:33

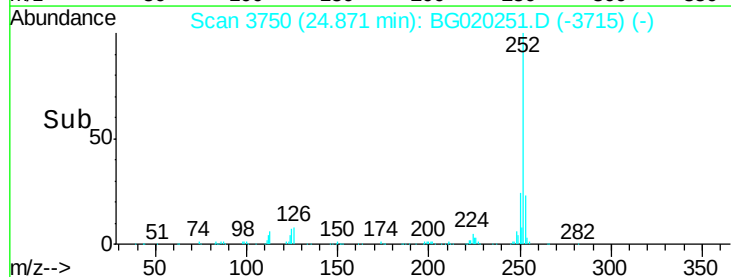
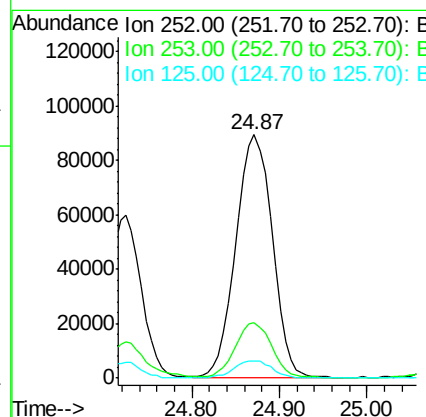
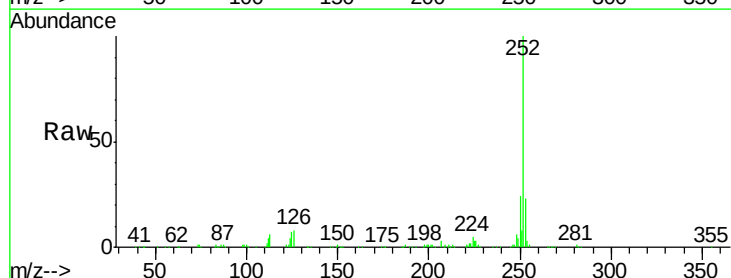
Instrument :
BNA_G
ClientSampleId :
D9N37DL

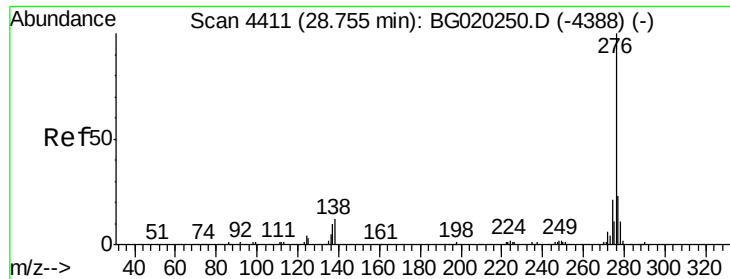
Tgt Ion:252 Resp: 129663
Ion Ratio Lower Upper
252 100
253 23.1 17.9 26.9
125 6.7 5.8 8.6



#91
Benzo(a)pyrene
Concen: 25.47 ng/ul
RT: 24.87 min Scan# 3750
Delta R.T. 0.01 min
Lab File: BG020251.D
Acq: 17 Dec 2015 18:33

Tgt Ion:252 Resp: 252169
Ion Ratio Lower Upper
252 100
253 23.0 17.0 25.4
125 6.9 6.2 9.4





#92

Indeno(1,2,3-cd)pyrene

Concen: 6.79 ng/ul

RT: 28.74 min Scan# 4409

Delta R.T. -0.01 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

Instrument :

BNA_G

ClientSampleId :

D9N37DL

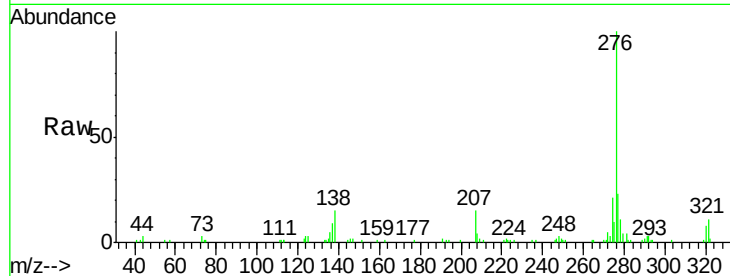
Tgt Ion:276 Resp: 80093

Ion Ratio Lower Upper

276 100

138 15.1 11.4 17.0

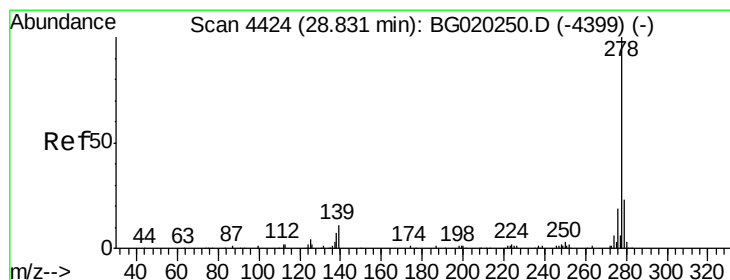
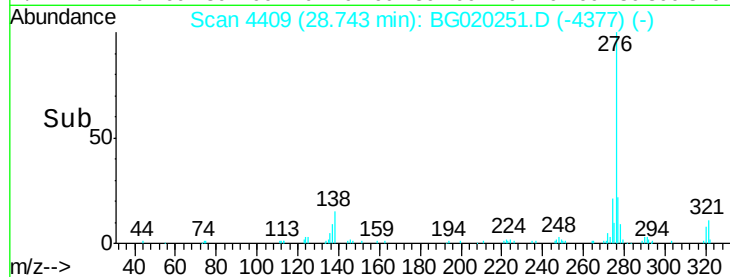
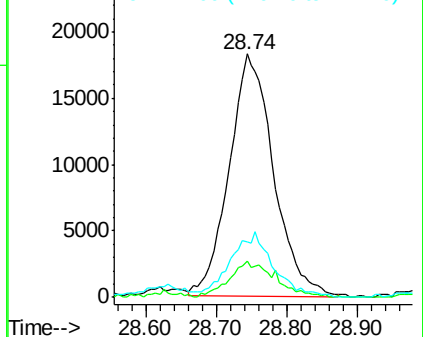
277 22.6 17.4 26.0



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



#93

Dibenzo(a,h)anthracene

Concen: 2.56 ng/ul

RT: 28.80 min Scan# 4419

Delta R.T. -0.03 min

Lab File: BG020251.D

Acq: 17 Dec 2015 18:33

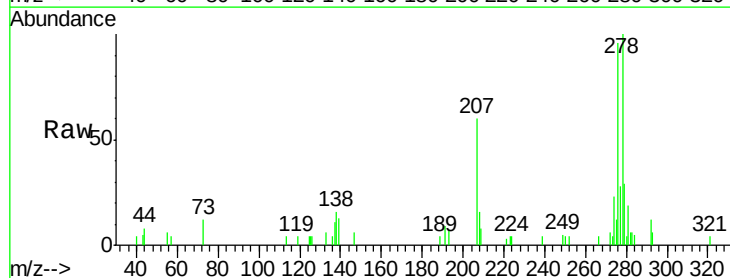
Tgt Ion:278 Resp: 25069

Ion Ratio Lower Upper

278 100

139 12.8 9.4 14.2

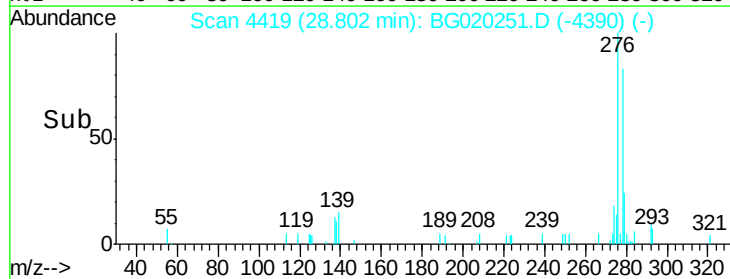
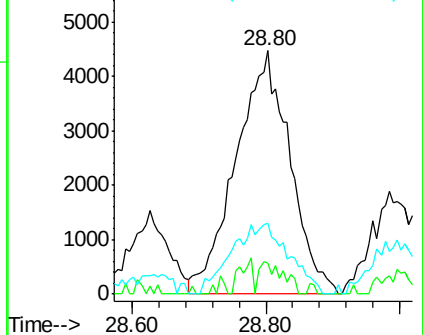
279 28.9 19.4 29.0

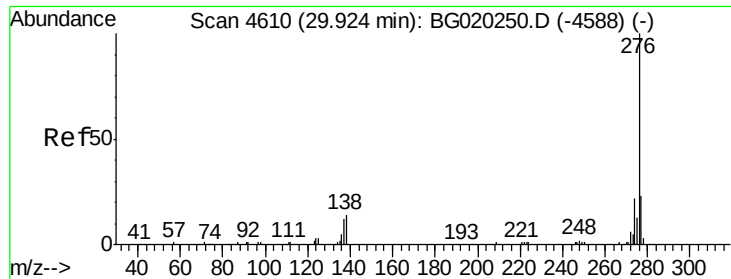


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94
 Benzo(g,h,i)perylene
 Concen: 6.30 ng/ul
 RT: 29.92 min Scan# 4609
 Delta R.T. -0.01 min
 Lab File: BG020251.D
 Acq: 17 Dec 2015 18:33

Instrument :
 BNA_G
 ClientSampleId :
 D9N37DL

Tgt Ion	Ratio	Lower	Upper
276	100		
138	13.3	10.8	16.2
277	24.8	19.9	29.9

