

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
 Data File : BG020252.D
 Acq On : 17 Dec 2015 19:12
 Operator : UM/SJ
 Sample : G4787-17DL 10X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9BN9DL

Quant Time: Dec 18 02:42:35 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	8.09	152	18727	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	78207	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	54969	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	130641	20.00	ng/ul	0.00
78) Chrysene-d12	21.75	240	167590	20.00	ng/ul	0.00
86) Perylene-d12	25.02	264	165492	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	2660	1.61	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	2457	2.49	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	2270	1.89	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	2260	1.60	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	1746	2.86	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	1214	1.79	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	2633	1.92	ng/ul	0.00
29) 4-Chloroaniline-d4	11.08	131	250	0.16	ng/ul	0.04
44) Dimethylphthalate-d6	14.13	166	10484	2.36	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	12278	2.37	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	1302	1.63	ng/ul	0.01
58) Fluorene-d10	15.71	176	9738	2.41	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	417	0.54	ng/ul	0.00
71) Anthracene-d10	17.47	188	130641	21.70	ng/ul	-0.10
79) Pyrene-d10	19.85	212	17740	2.27	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.80	264	19737	2.39	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.24	77	5128	4.80	ng/ul#	1
14) Acetophenone	8.90	105	2963	1.34	ng/ul#	30
28) Naphthalene	10.98	128	1727048	422.87	ng/ul#	92
30) 4-Chloroaniline	10.98	127	265235	168.33	ng/ul#	14
34) 2-Methylnaphthalene	12.57	142	858710	275.26	ng/ul	98
35) 1-Methylnaphthalene	12.79	142	488737	162.96	ng/ul	96
41) 1,1'-Biphenyl	13.56	154	79382	19.14	ng/ul	96
45) Dimethylphthalate	14.17	163	6969	1.53	ng/ul#	94
48) Acenaphthylene	14.45	152	27261	4.96	ng/ul#	72
50) Acenaphthene	14.80	153	295930	80.03	ng/ul	98
54) Dibenzofuran	15.12	168	39892	7.25	ng/ul	92
59) Fluorene	15.77	166	178060	40.31	ng/ul	99
65) N-Nitrosodiphenylamine	15.98	169	8934	2.46	ng/ul#	1
70) Phenanthrene	17.52	178	845260	118.29	ng/ul	98
72) Anthracene	17.61	178	220698	30.45	ng/ul	98
75) Carbazole	17.88	167	9238	1.52	ng/ul#	70
77) Fluoranthene	19.52	202	326072	39.04	ng/ul	98
80) Pyrene	19.89	202	497256	49.02	ng/ul	99
83) Benzo(a)anthracene	21.79	228	161046	16.47	ng/ul	93
85) Chrysene	21.79	228	160991	17.48	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	100279	10.07	ng/ul	94
89) Benzo(k)fluoranthene	23.97	252	100279	10.49	ng/ul	97
91) Benzo(a)pyrene	24.86	252	109701	11.62	ng/ul	98

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\
Data File : BG020252.D
Acq On : 17 Dec 2015 19:12
Operator : UM/SJ
Sample : G4787-17DL 10X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
G9BN9DL

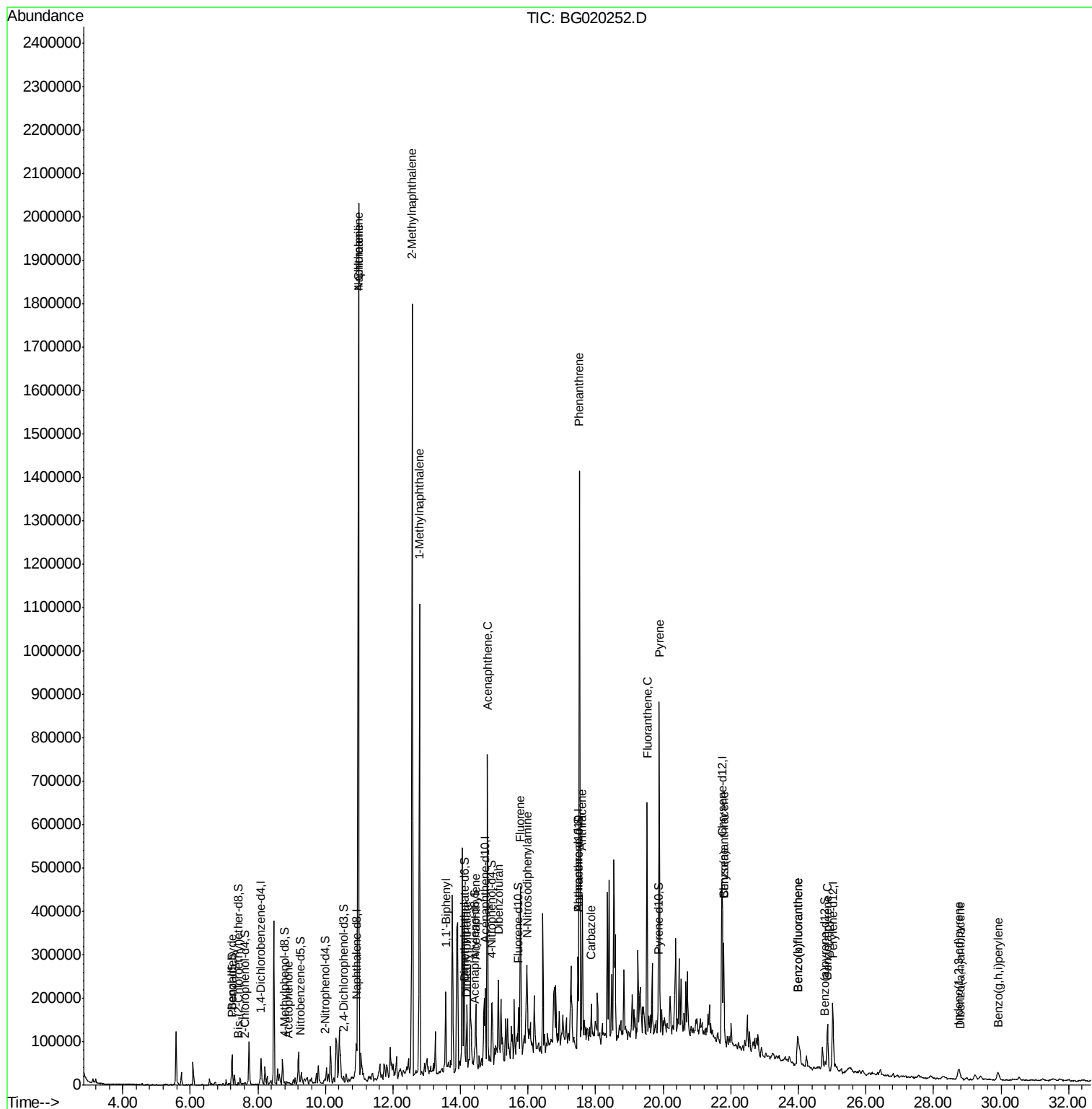
Quant Time: Dec 18 02:42:35 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 18 02:40:02 2015
Response via : Initial Calibration

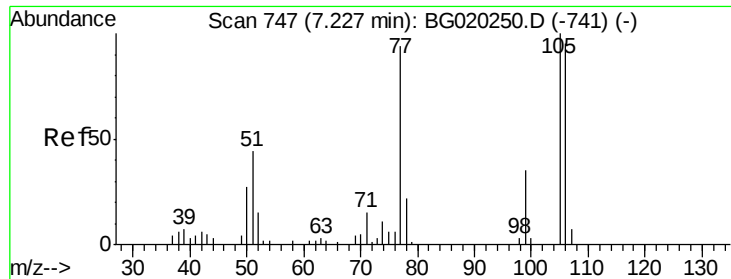
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	28.75	276	43571	3.87	ng/ul#	91
93) Dibenzo(a,h)anthracene	28.80	278	10461	1.12	ng/ul#	91
94) Benzo(g,h,i)perylene	29.90	276	21897	2.38	ng/ul	98

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

```
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121815\  
Data File : BG020252.D  
Acq On    : 17 Dec 2015  19:12  
Operator  : UM/SJ  
Sample    : G4787-17DL 10X  
Misc      :  
ALS Vial  : 5      Sample Multiplier: 1
```

Quant Time: Dec 18 02:42:35 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





#4

Benzaldehyde

Concen: 4.80 ng/ul

RT: 7.24 min Scan# 748

Delta R.T. 0.01 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

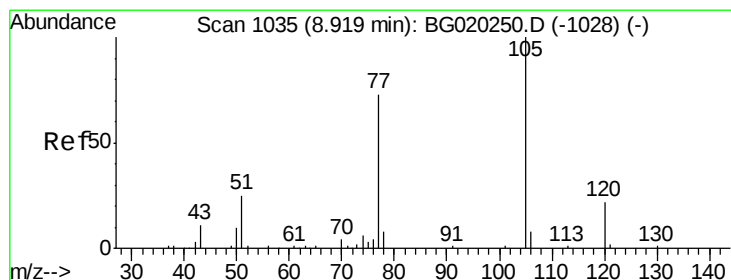
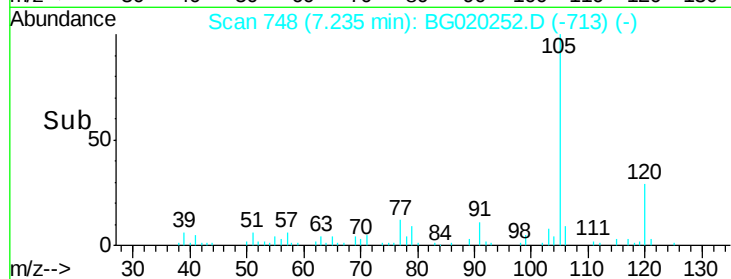
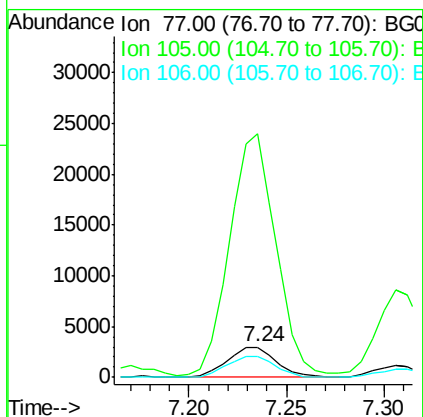
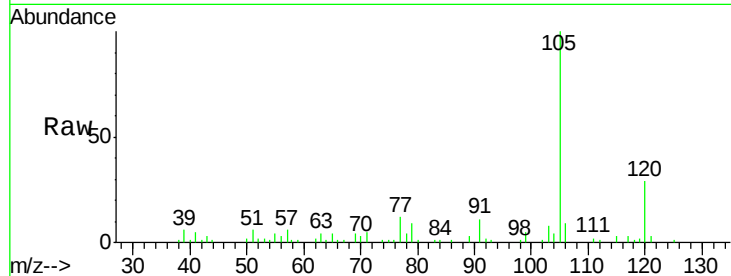
Tgt Ion: 77 Resp: 5128

Ion Ratio Lower Upper

77 100

105 808.6 77.8 116.6#

106 70.7 72.6 109.0#



#14

Acetophenone

Concen: 1.34 ng/ul

RT: 8.90 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

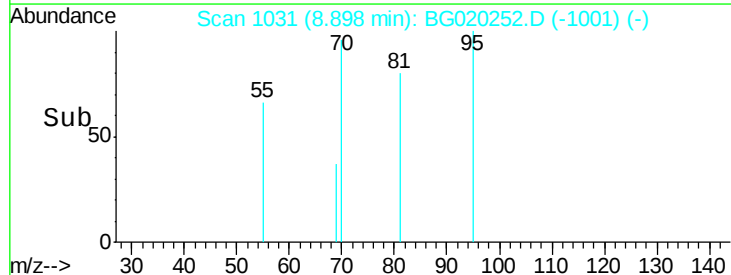
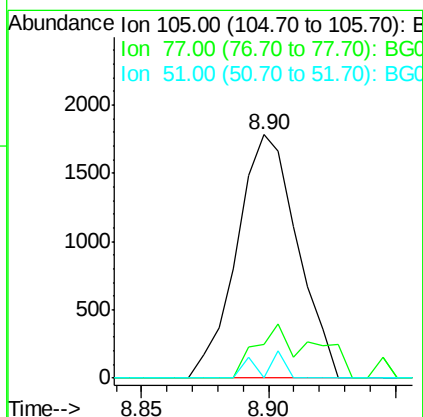
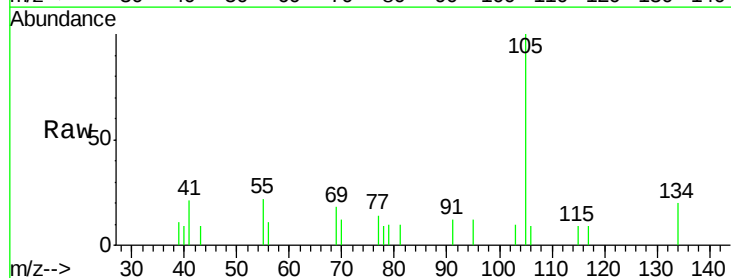
Tgt Ion: 105 Resp: 2963

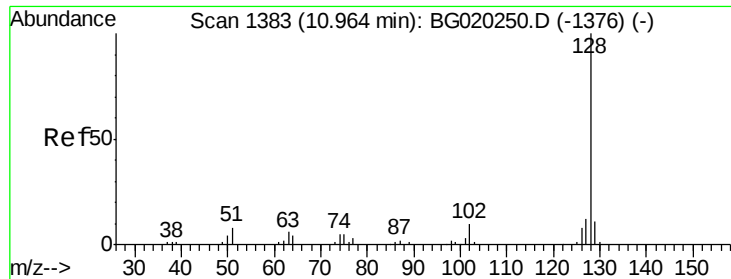
Ion Ratio Lower Upper

105 100

77 14.1 65.2 97.8#

51 0.0 22.6 33.8#

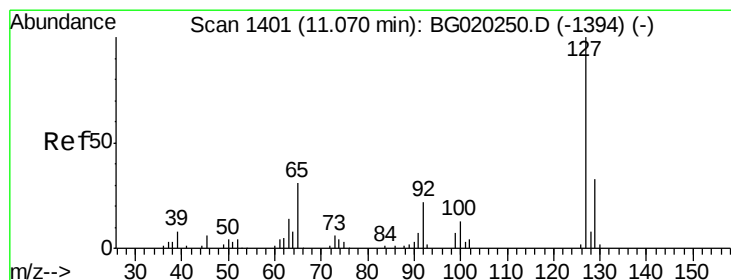
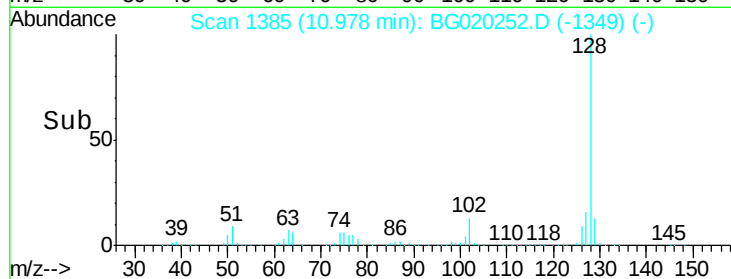
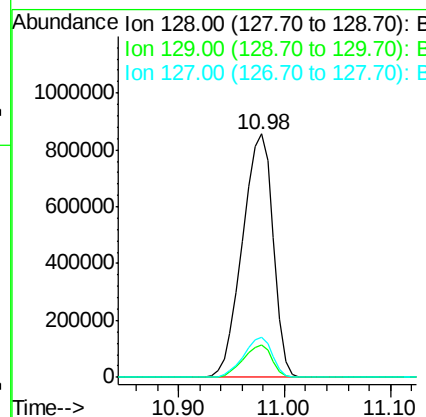
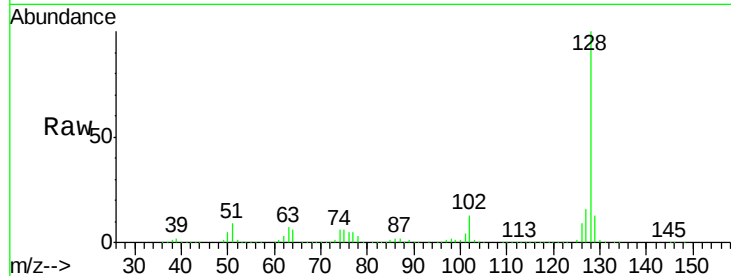




#28
Naphthalene
Concen: 422.87 ng/ul
RT: 10.98 min Scan# 1385
Delta R.T. 0.01 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

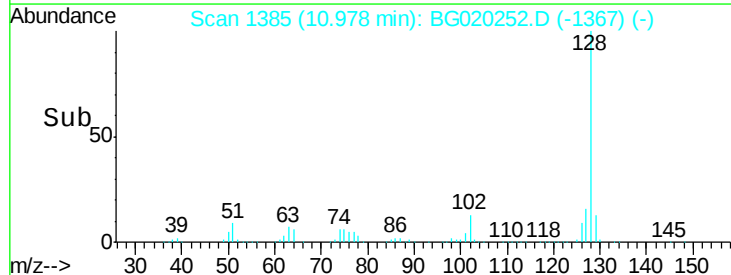
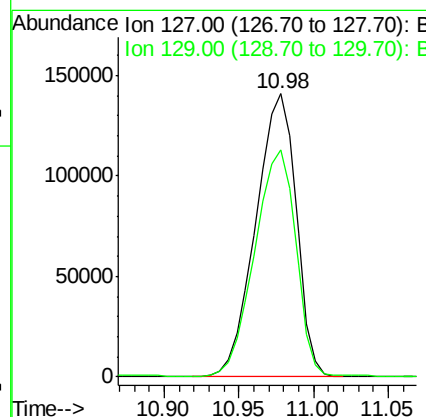
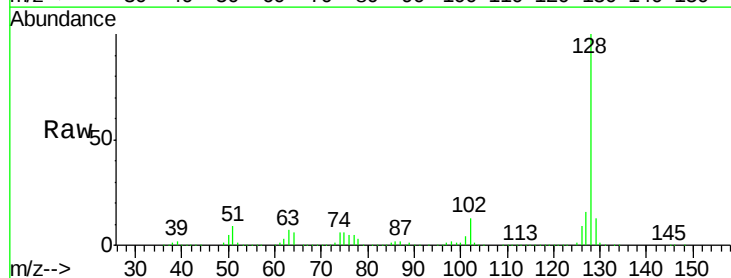
Instrument :
BNA_G
ClientSampleId :
G9BN9DL

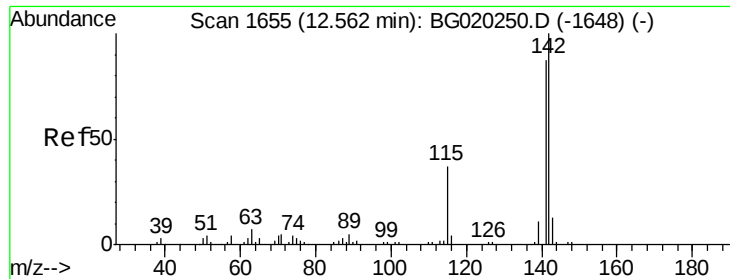
Tgt Ion:128 Resp: 1727048
Ion Ratio Lower Upper
128 100
129 13.2 8.6 12.8#
127 16.5 10.1 15.1#



#30
4-Chloroaniline
Concen: 168.33 ng/ul
RT: 10.98 min Scan# 1385
Delta R.T. -0.09 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion:127 Resp: 265235
Ion Ratio Lower Upper
127 100
129 80.3 25.7 38.5#

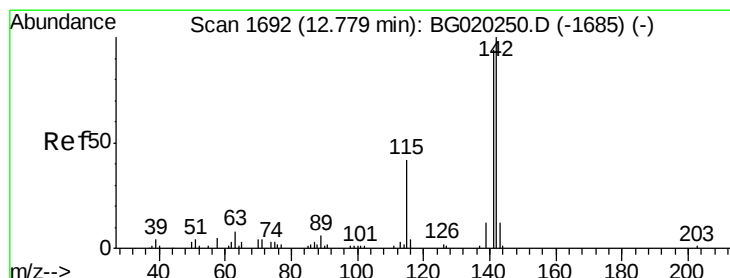
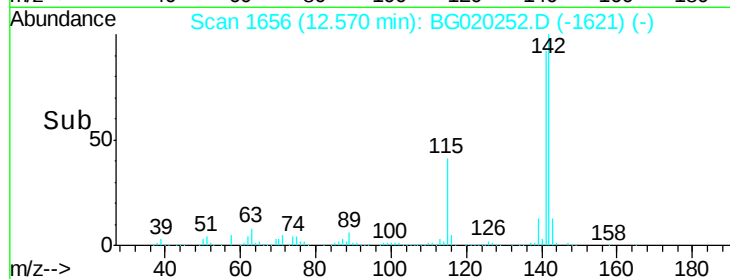
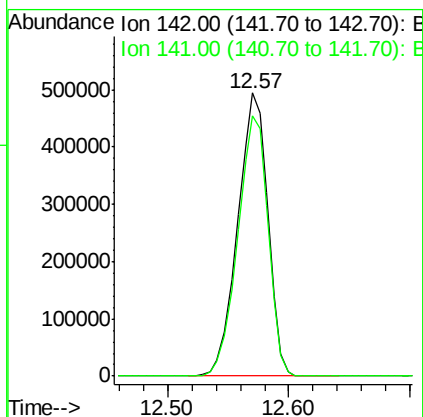
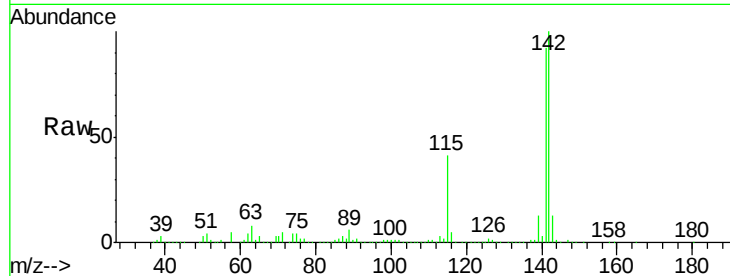




#34
 2-Methylnaphthalene
 Concen: 275.26 ng/ul
 RT: 12.57 min Scan# 1656
 Delta R.T. 0.01 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

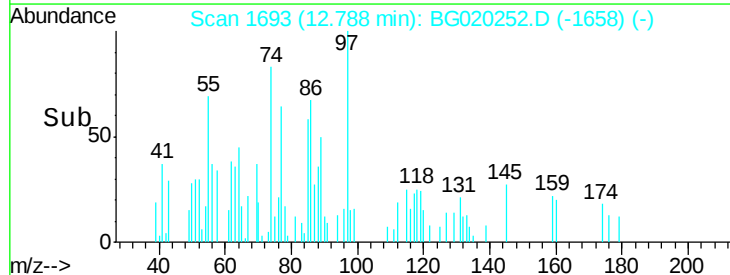
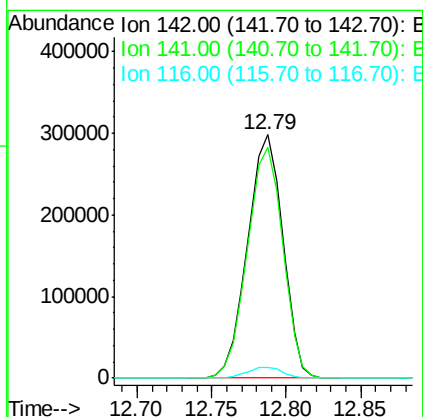
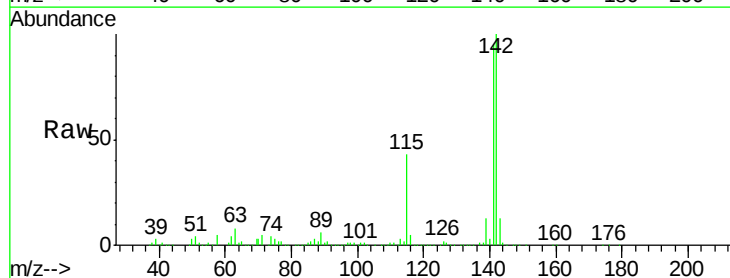
Instrument :
 BNA_G
 ClientSampled :
 G9BN9DL

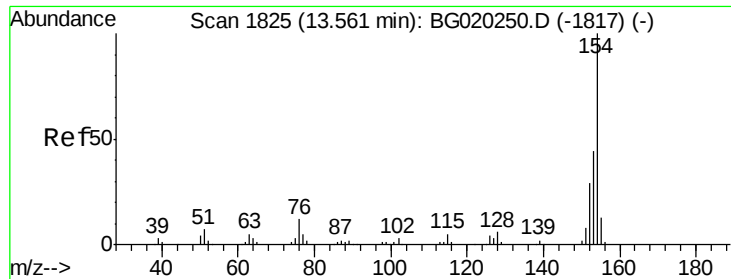
Tgt Ion:142 Resp: 858710
 Ion Ratio Lower Upper
 142 100
 141 91.8 74.9 112.3



#35
 1-Methylnaphthalene
 Concen: 162.96 ng/ul
 RT: 12.79 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

Tgt Ion:142 Resp: 488737
 Ion Ratio Lower Upper
 142 100
 141 95.0 73.0 109.6
 116 4.6 3.0 4.6

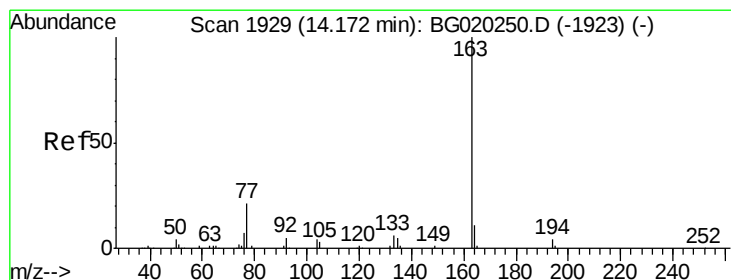
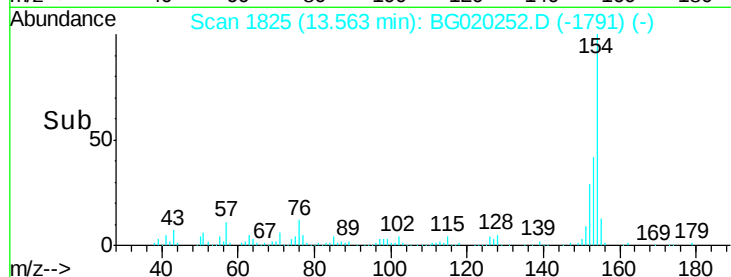
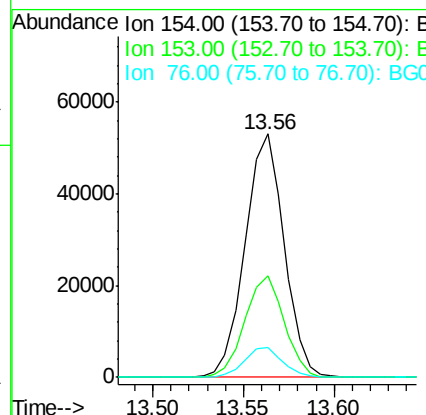
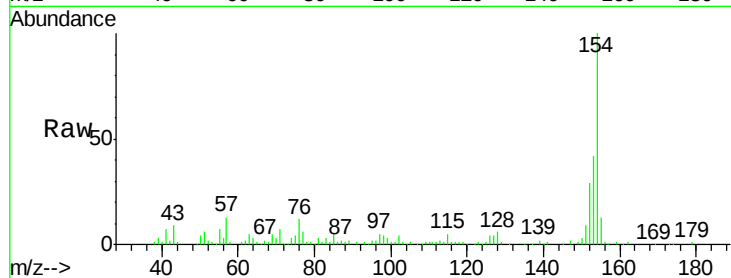




#41
 1,1'-Biphenyl
 Concen: 19.14 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. 0.00 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

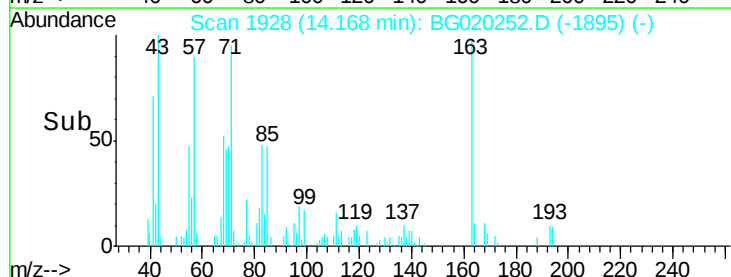
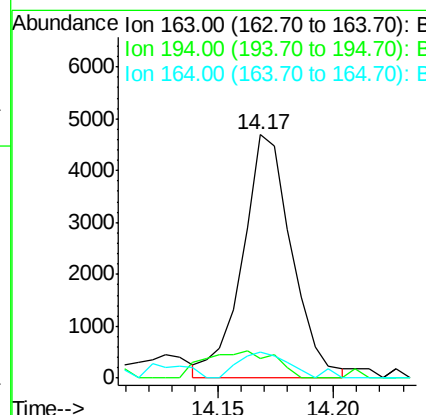
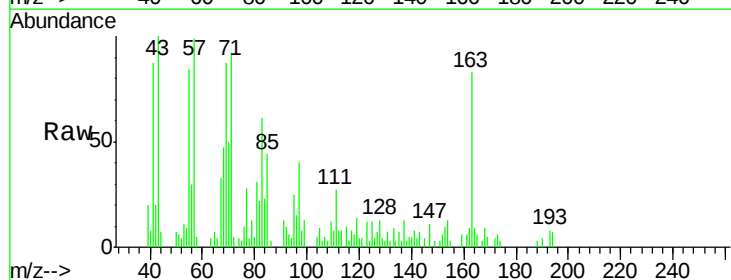
Instrument :
 BNA_G
 ClientSampleId :
 G9BN9DL

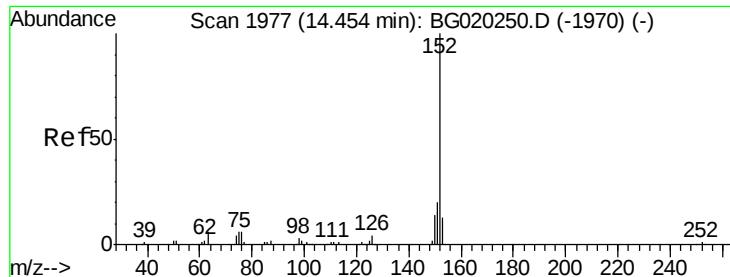
Tgt Ion:154 Resp: 79382
 Ion Ratio Lower Upper
 154 100
 153 41.7 35.5 53.3
 76 12.4 10.4 15.6



#45
 Dimethylphthalate
 Concen: 1.53 ng/ul
 RT: 14.17 min Scan# 1928
 Delta R.T. -0.00 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

Tgt Ion:163 Resp: 6969
 Ion Ratio Lower Upper
 163 100
 194 8.1 3.5 5.3#
 164 10.8 7.7 11.5





#48

Acenaphthylene

Concen: 4.96 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

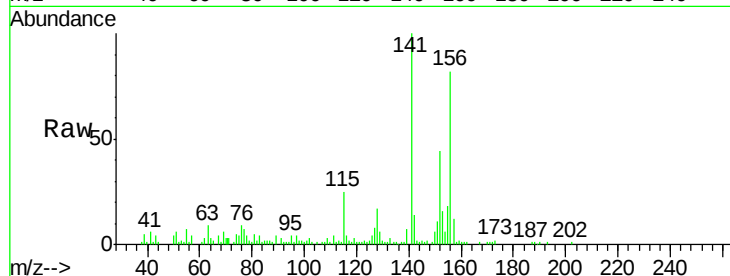
Tgt Ion:152 Resp: 27261

Ion Ratio Lower Upper

152 100

151 24.3 16.4 24.6

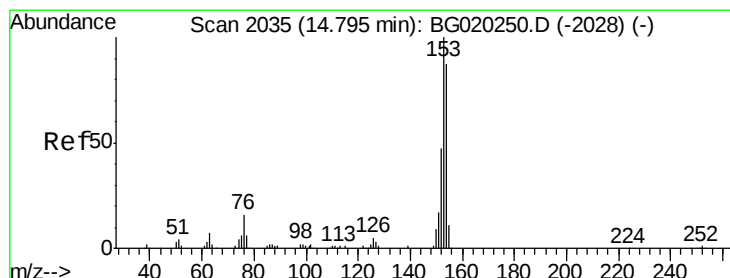
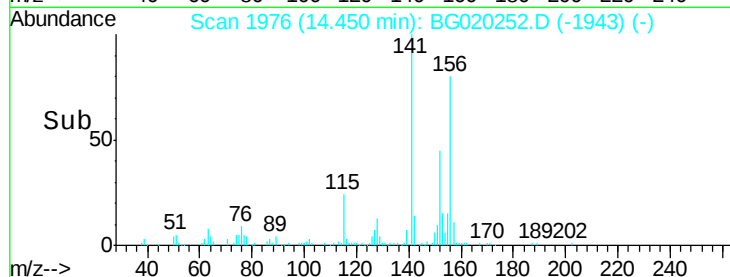
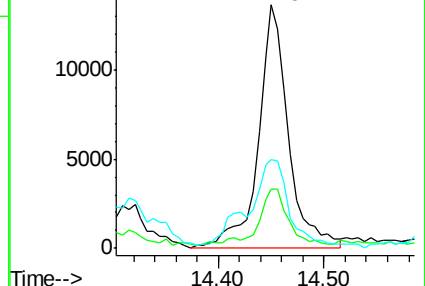
153 36.6 10.4 15.6#



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: 80.03 ng/ul

RT: 14.80 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

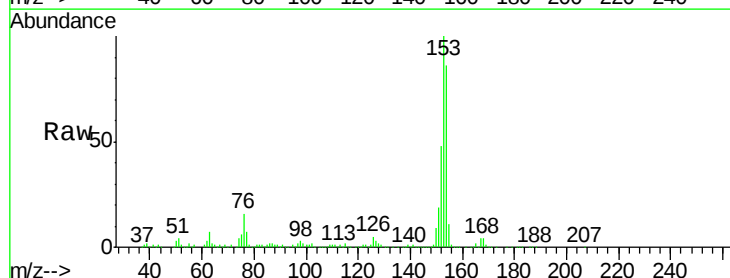
Tgt Ion:153 Resp: 295930

Ion Ratio Lower Upper

153 100

152 48.5 37.6 56.4

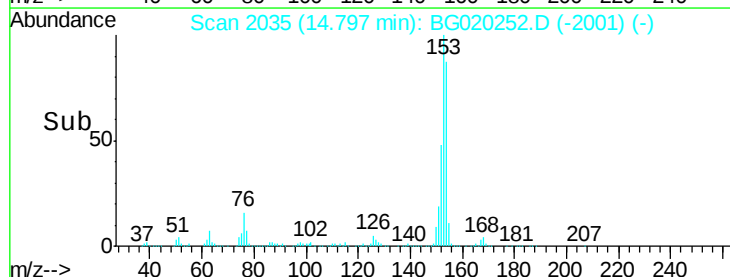
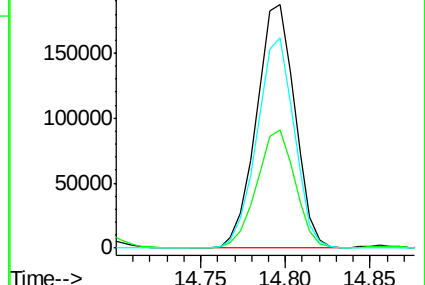
154 86.1 67.9 101.9

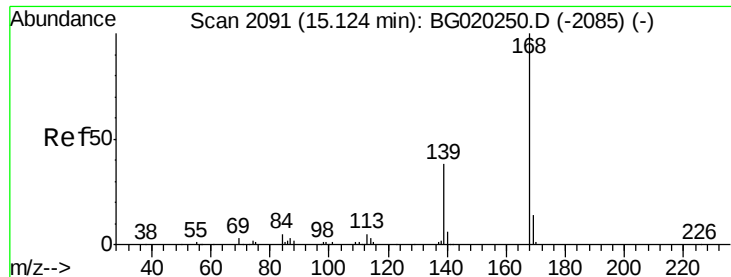


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 7.25 ng/ul

RT: 15.12 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampled :

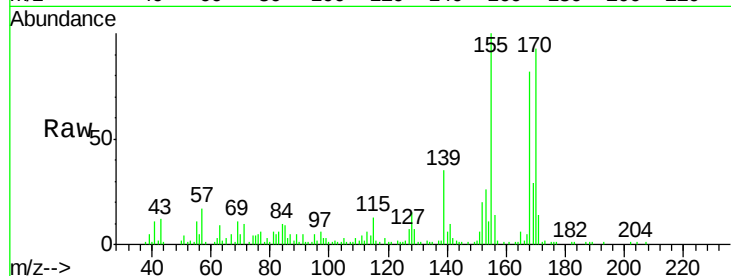
G9BN9DL

Tgt Ion:168 Resp: 39892

Ion Ratio Lower Upper

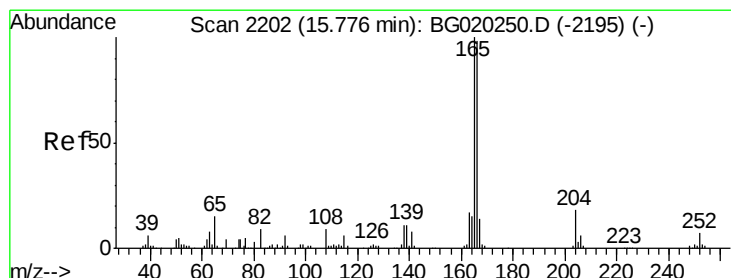
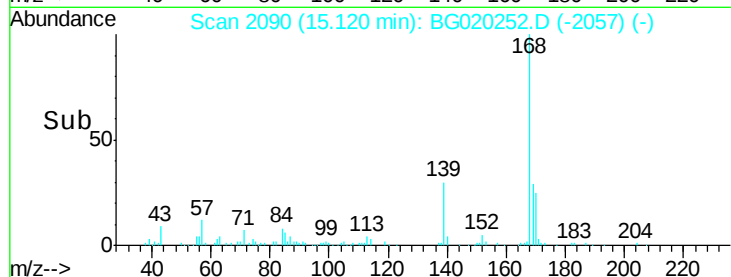
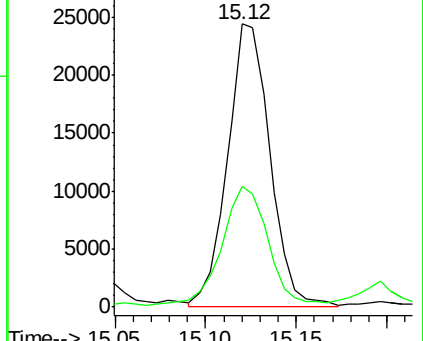
168 100

139 42.9 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 40.31 ng/ul

RT: 15.77 min Scan# 2201

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

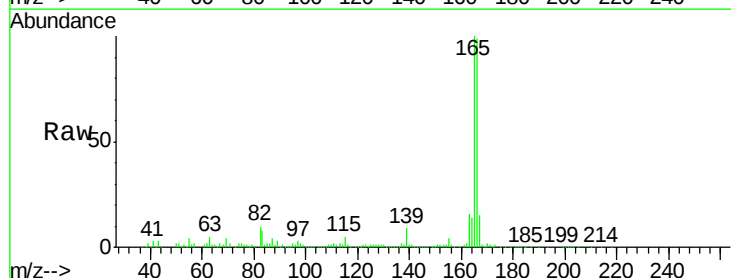
Tgt Ion:166 Resp: 178060

Ion Ratio Lower Upper

166 100

165 101.1 81.4 122.0

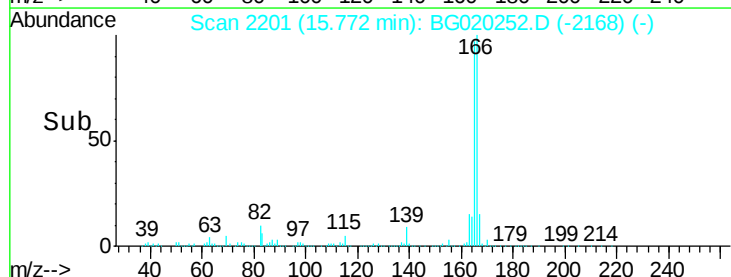
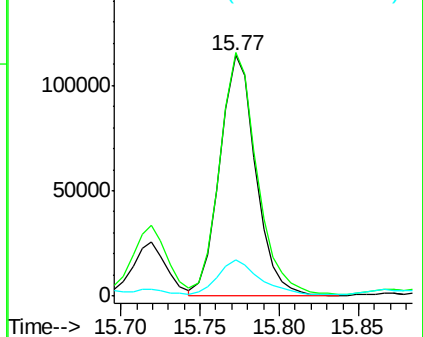
167 15.2 11.2 16.8

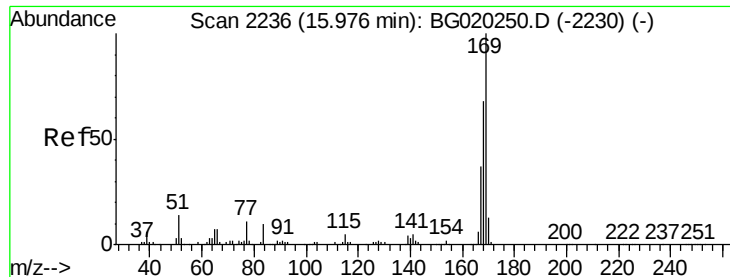


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

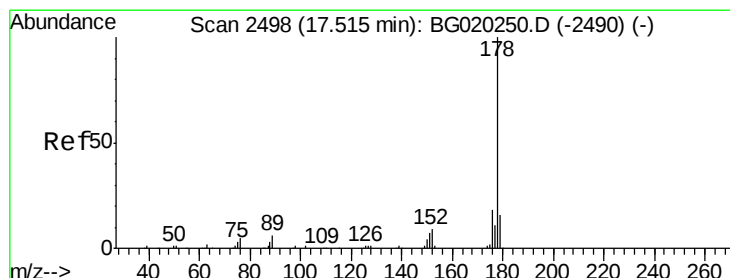
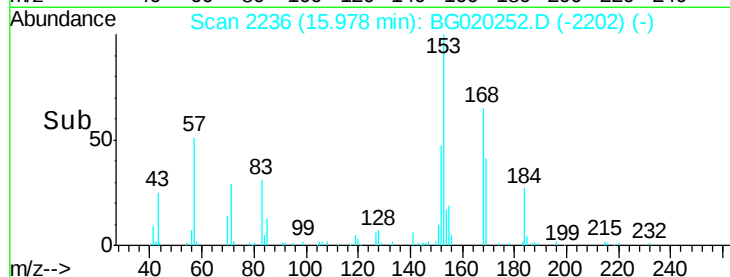
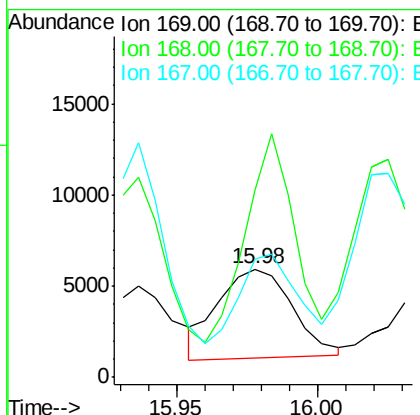
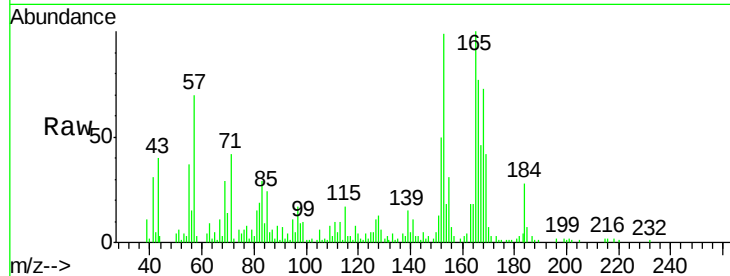




#65
N-Nitrosodiphenylamine
Concen: 2.46 ng/ul
RT: 15.98 min Scan# 2236
Delta R.T. 0.00 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

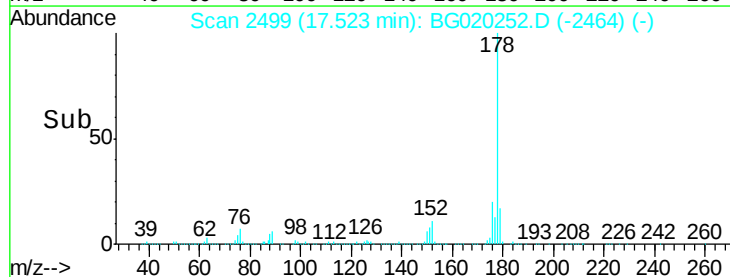
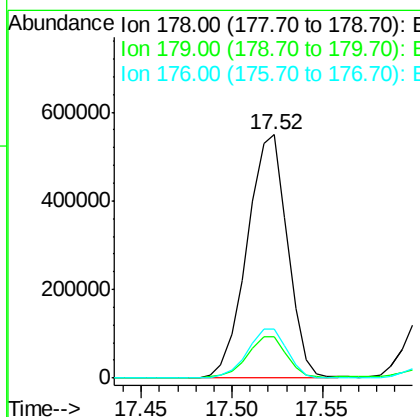
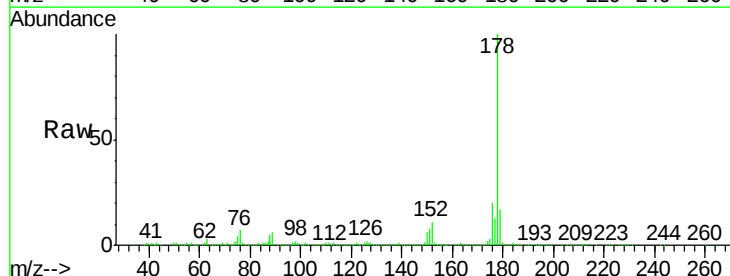
Instrument :
BNA_G
ClientSampleId :
G9BN9DL

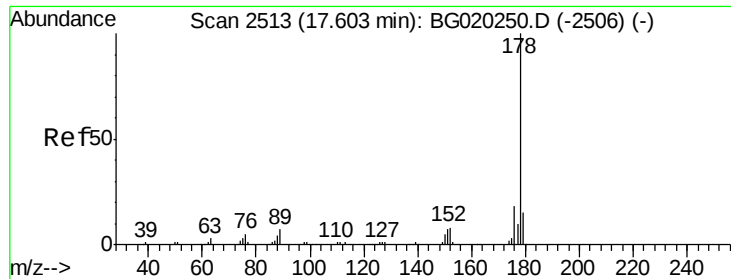
Tgt Ion:169 Resp: 8934
Ion Ratio Lower Upper
169 100
168 173.7 54.3 81.5#
167 109.0 31.8 47.8#



#70
Phenanthrene
Concen: 118.29 ng/ul
RT: 17.52 min Scan# 2499
Delta R.T. 0.01 min
Lab File: BG020252.D
Acq: 17 Dec 2015 19:12

Tgt Ion:178 Resp: 845260
Ion Ratio Lower Upper
178 100
179 17.0 12.9 19.3
176 20.2 15.3 22.9





#72

Anthracene

Concen: 30.45 ng/ul

RT: 17.61 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

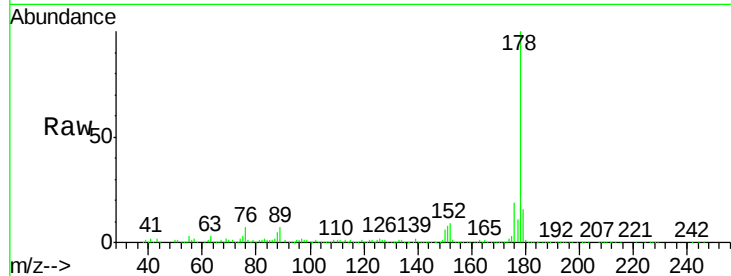
Tgt Ion:178 Resp: 220698

Ion Ratio Lower Upper

178 100

179 16.0 12.3 18.5

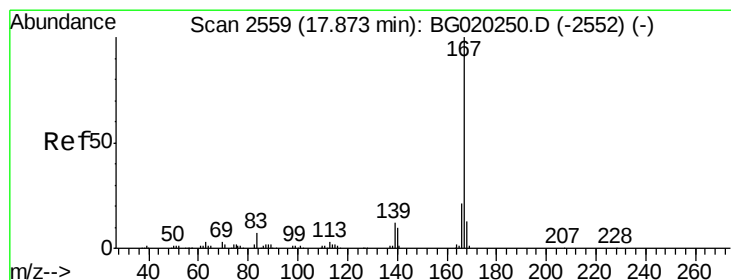
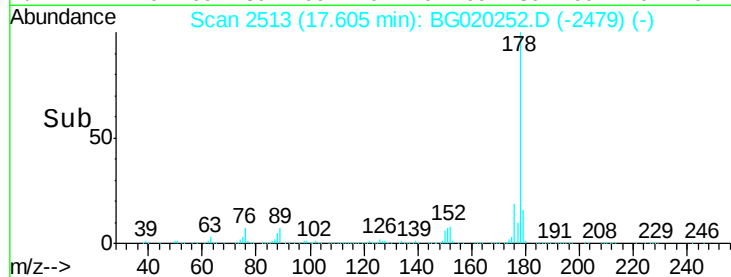
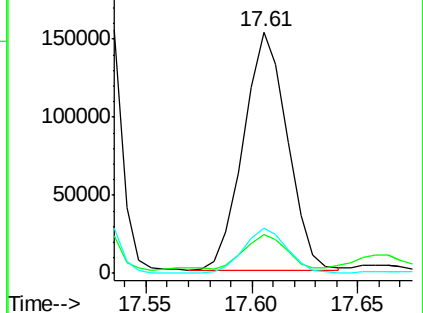
176 18.8 14.3 21.5



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: 1.52 ng/ul

RT: 17.88 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

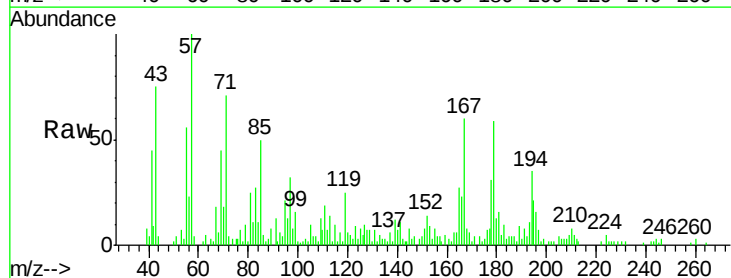
Tgt Ion:167 Resp: 9238

Ion Ratio Lower Upper

167 100

166 38.6 17.0 25.6#

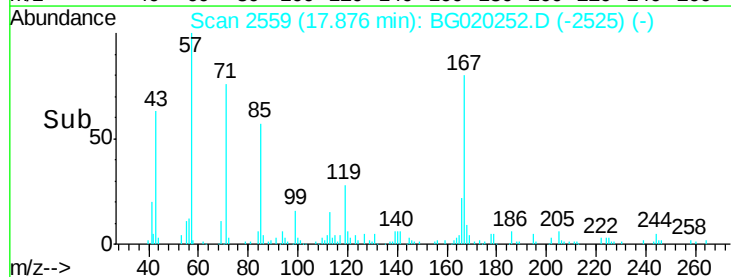
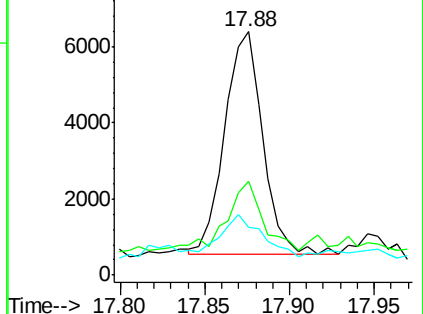
139 19.4 10.1 15.1#

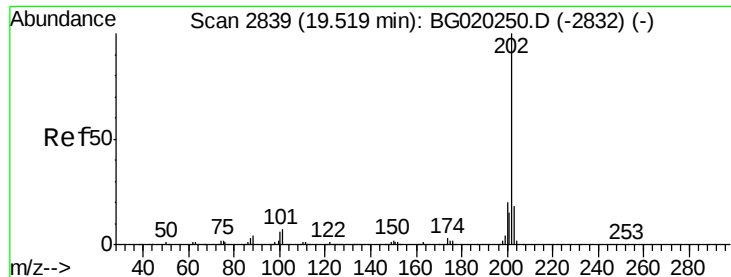


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

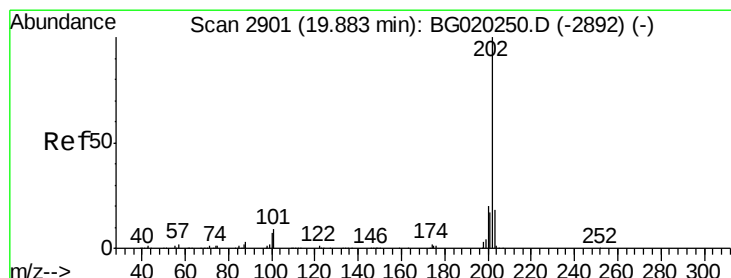
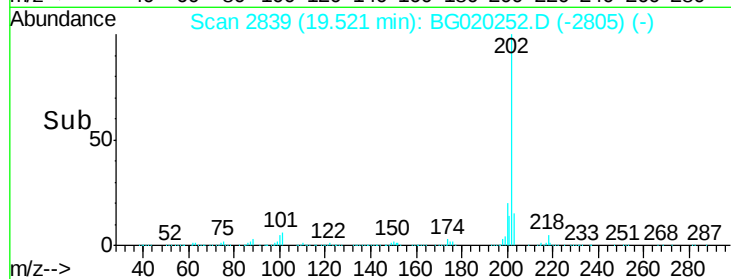
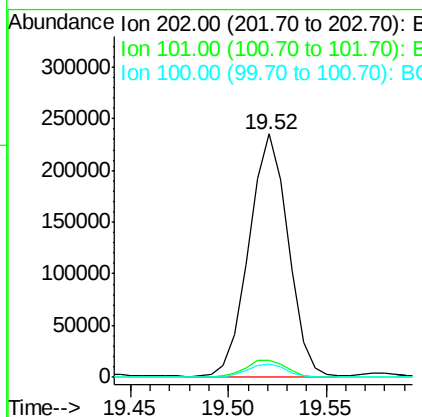
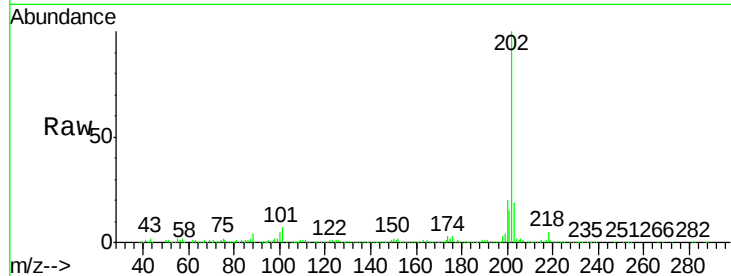




#77
Fluoranthene
 Concen: 39.04 ng/ul
 RT: 19.52 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

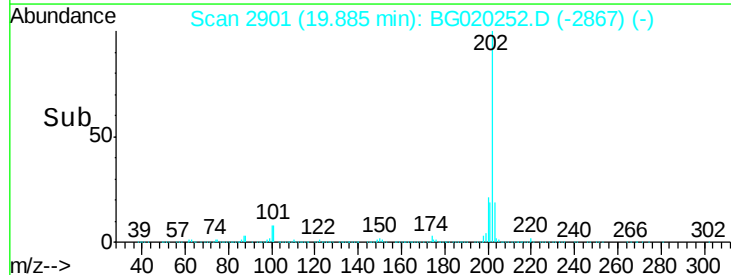
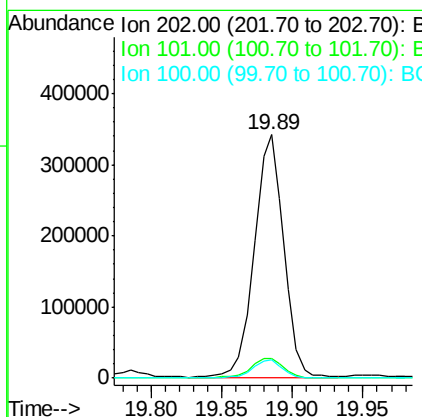
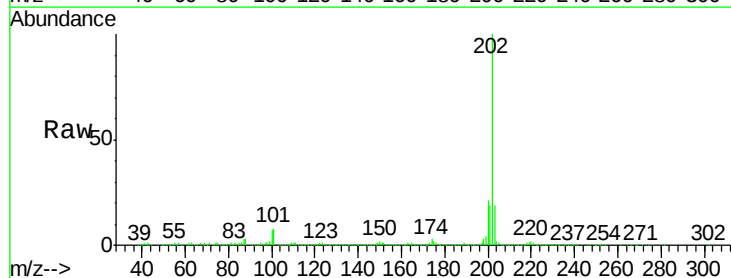
Instrument :
 BNA_G
 ClientSampleId :
 G9BN9DL

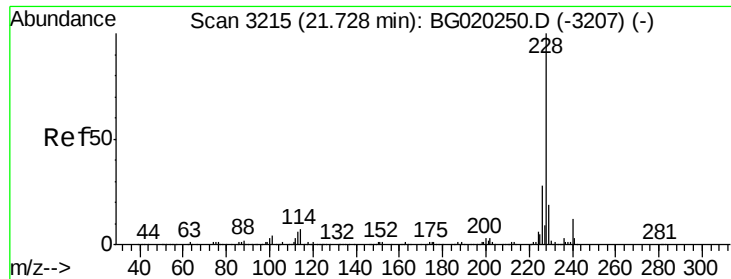
Tgt Ion:202 Resp: 326072
 Ion Ratio Lower Upper
 202 100
 101 7.3 6.2 9.4
 100 5.4 5.1 7.7



#80
Pyrene
 Concen: 49.02 ng/ul
 RT: 19.89 min Scan# 2901
 Delta R.T. 0.00 min
 Lab File: BG020252.D
 Acq: 17 Dec 2015 19:12

Tgt Ion:202 Resp: 497256
 Ion Ratio Lower Upper
 202 100
 101 8.3 7.0 10.4
 100 7.4 6.4 9.6





#83

Benzo(a)anthracene

Concen: 16.47 ng/ul

RT: 21.79 min Scan# 3226

Delta R.T. 0.07 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

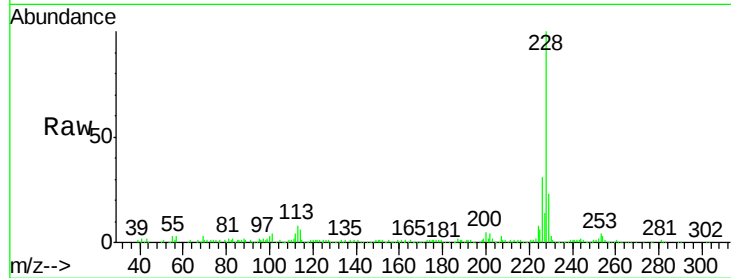
Tgt Ion:228 Resp: 161046

Ion Ratio Lower Upper

228 100

229 22.6 15.8 23.8

226 31.2 21.8 32.6

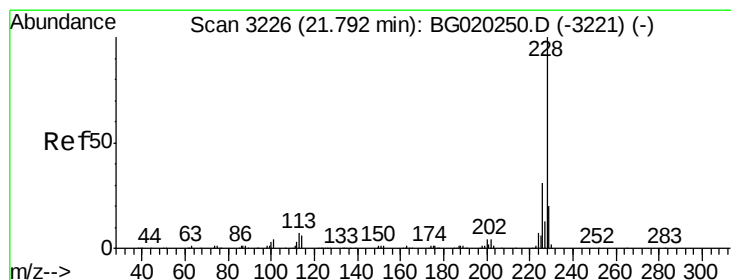
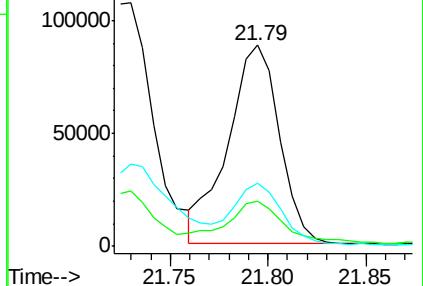
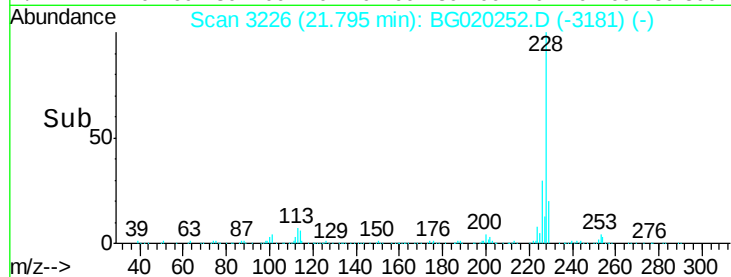


Abundance

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: 17.48 ng/ul

RT: 21.79 min Scan# 3226

Delta R.T. 0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

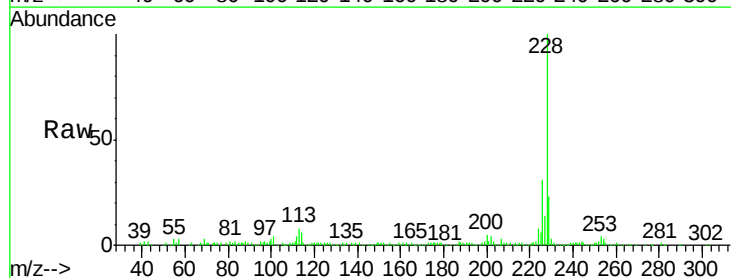
Tgt Ion:228 Resp: 160991

Ion Ratio Lower Upper

228 100

226 31.2 23.9 35.9

229 22.6 15.6 23.4

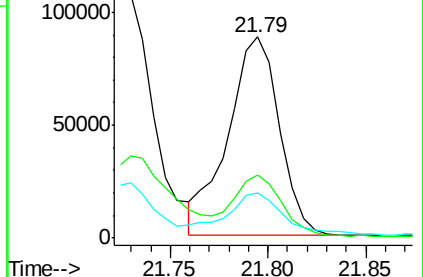
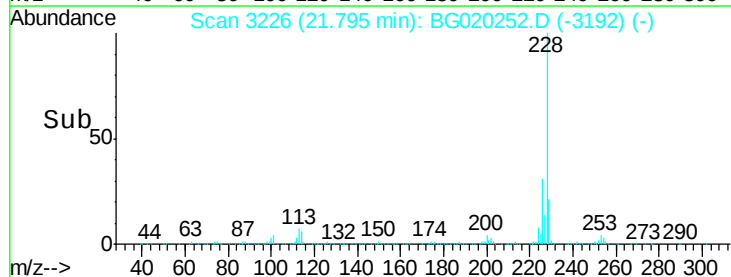


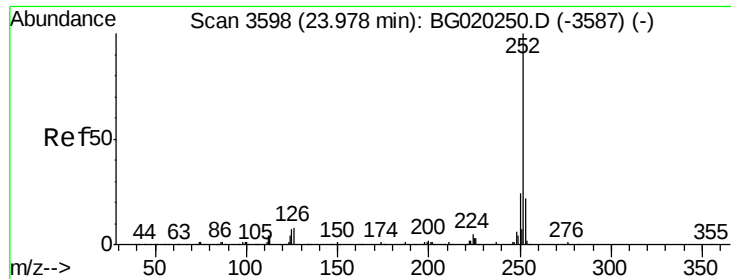
Abundance

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: 10.07 ng/u1

RT: 23.97 min Scan# 3597

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

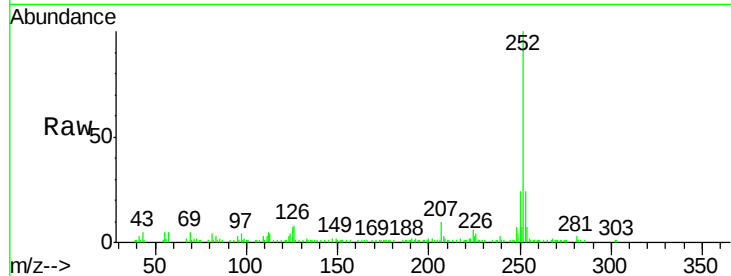
Tgt Ion:252 Resp: 100279

Ion Ratio Lower Upper

252 100

253 24.4 16.7 25.1

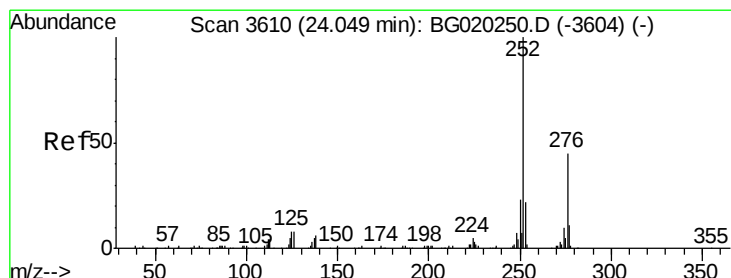
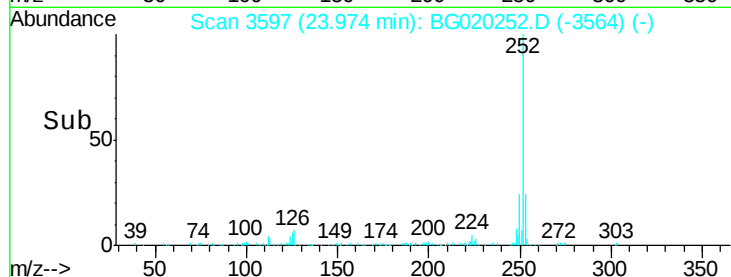
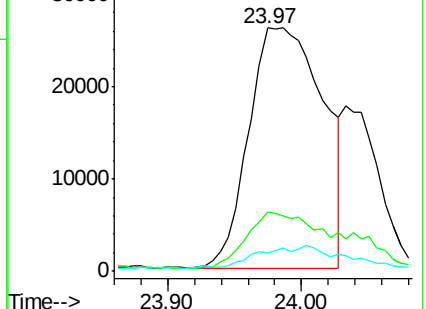
125 7.3 6.2 9.2



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: 10.49 ng/u1

RT: 23.97 min Scan# 3597

Delta R.T. -0.07 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

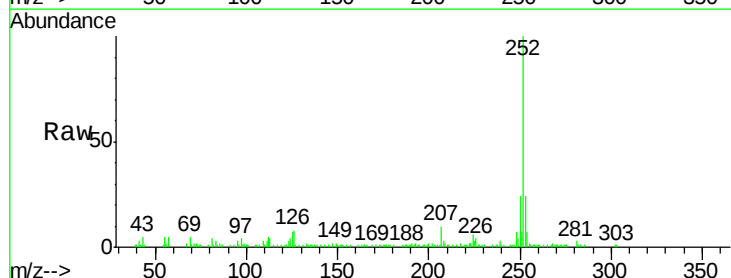
Tgt Ion:252 Resp: 100279

Ion Ratio Lower Upper

252 100

253 24.4 17.9 26.9

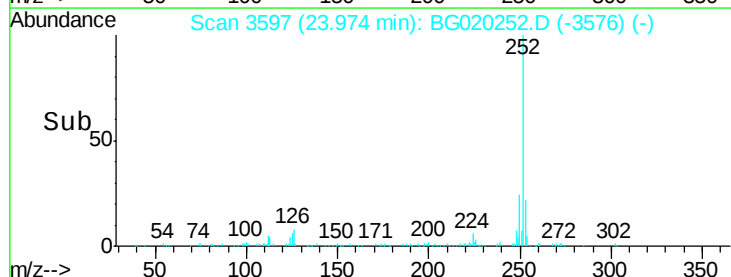
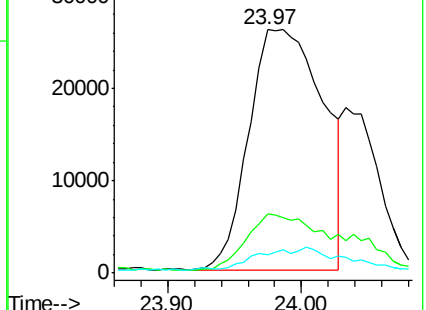
125 7.3 5.8 8.6

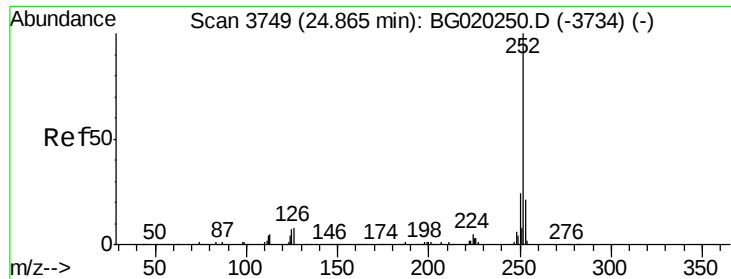


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 11.62 ng/ul

RT: 24.86 min Scan# 3748

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampled :

G9BN9DL

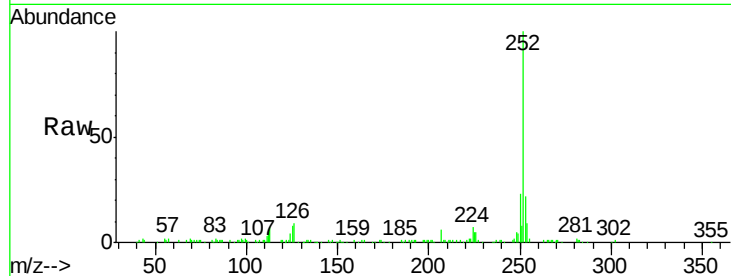
Tgt Ion:252 Resp: 109701

Ion Ratio Lower Upper

252 100

253 22.5 17.0 25.4

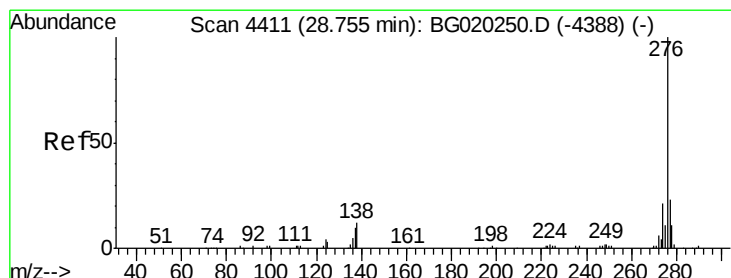
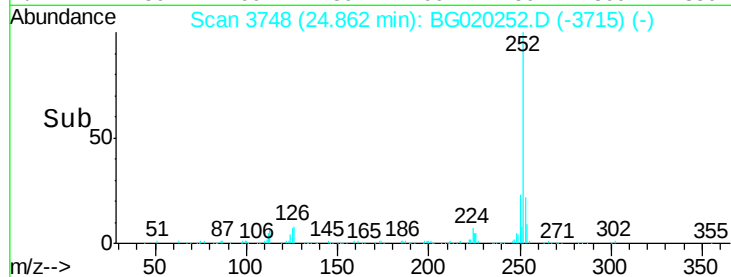
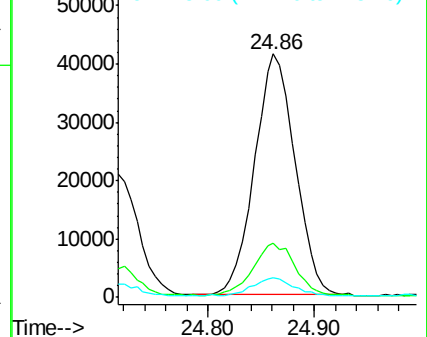
125 8.2 6.2 9.4



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 3.87 ng/ul

RT: 28.75 min Scan# 4410

Delta R.T. -0.00 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

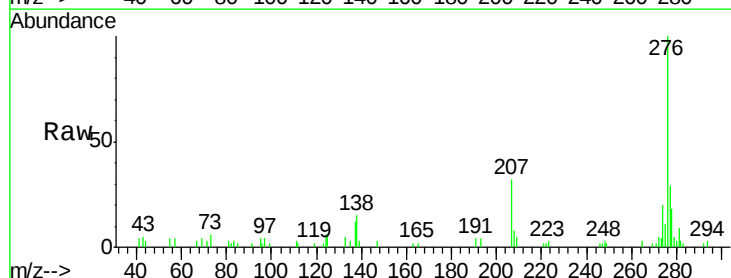
Tgt Ion:276 Resp: 43571

Ion Ratio Lower Upper

276 100

138 14.9 11.4 17.0

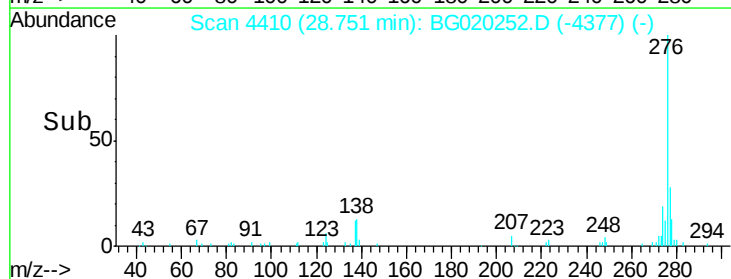
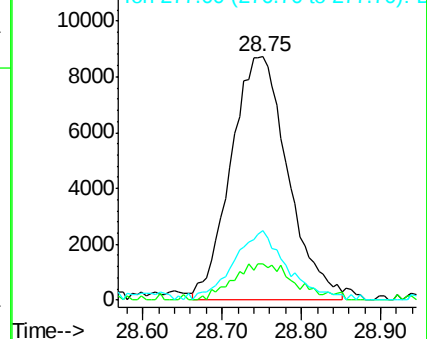
277 28.5 17.4 26.0#

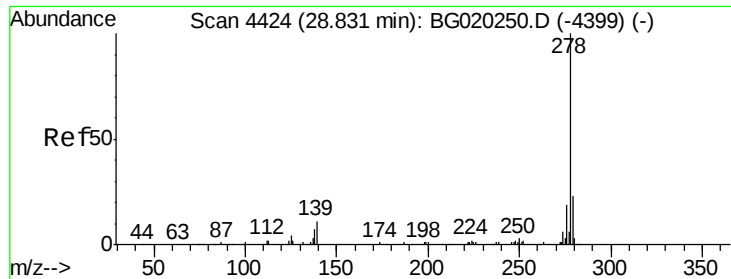


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 1.12 ng/ul

RT: 28.80 min Scan# 4418

Delta R.T. -0.03 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Instrument :

BNA_G

ClientSampleId :

G9BN9DL

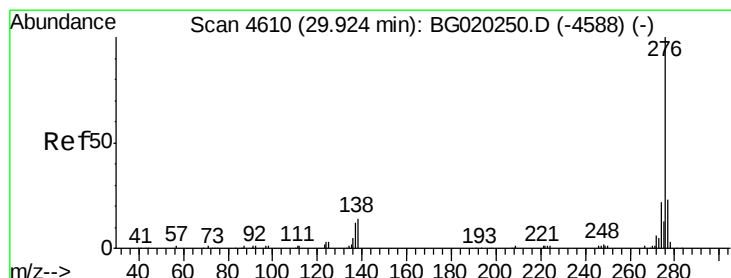
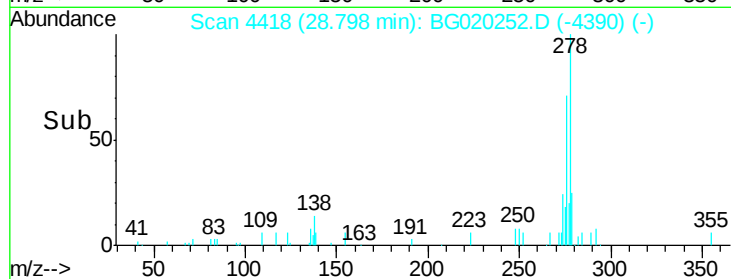
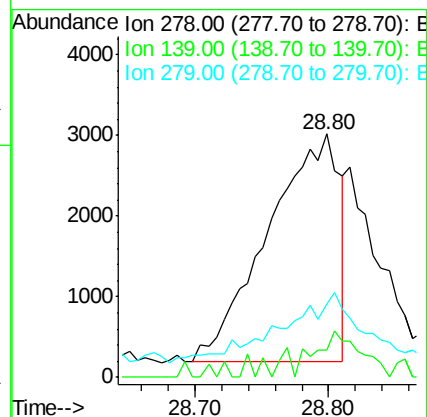
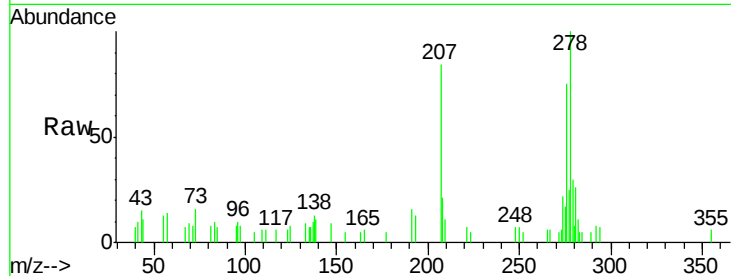
Tgt Ion:278 Resp: 10461

Ion Ratio Lower Upper

278 100

139 11.1 9.4 14.2

279 30.1 19.4 29.0#



#94

Benzo(g,h,i)perylene

Concen: 2.38 ng/ul

RT: 29.90 min Scan# 4606

Delta R.T. -0.02 min

Lab File: BG020252.D

Acq: 17 Dec 2015 19:12

Tgt Ion:276 Resp: 21897

Ion Ratio Lower Upper

276 100

138 13.9 10.8 16.2

277 23.4 19.9 29.9

