

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
 Data File : BG020539.D
 Acq On : 26 Dec 2015 14:11
 Operator : UM/SJ
 Sample : G4802-18
 Misc :
 ALS Vial : 76 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D93

Quant Time: Dec 28 01:25:11 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 01:15:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	23484	20.00	ng/ul	0.00
18) Naphthalene-d8	10.89	136	98419	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	68627	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	177268	20.00	ng/ul	0.00
78) Chrysene-d12	21.73	240	223886	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	219300	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	1265	2.97	ng/uL	0.01
5) Phenol-d5	7.23	99	36890	19.58	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	22744	20.37	ng/ul	0.00
9) 2-Chlorophenol-d4	7.60	132	29852	20.65	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	30985	19.54	ng/ul	0.00
19) Nitrobenzene-d5	9.24	128	16017	20.76	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	18213	20.76	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	32848	19.35	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	39485	20.36	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	111626	19.73	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	133837	20.42	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	13708	14.54	ng/ul	0.00
58) Fluorene-d10	15.70	176	108063	21.12	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	14615	12.44	ng/ul	0.01
71) Anthracene-d10	17.56	188	178762	21.53	ng/ul	0.01
79) Pyrene-d10	19.84	212	209914	21.66	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	236725	21.35	ng/ul	0.02

Target Compounds

					Qvalue
6) Phenol	7.26	94	44084	22.46 ng/ul	97
11) 2-Methylphenol	8.52	108	14348	9.42 ng/ul#	79
16) 4-Methylphenol	8.85	108	40427	24.47 ng/ul	100
24) 2,4-Dimethylphenol	10.06	107	10641	5.41 ng/ul	97
28) Naphthalene	10.95	128	743891	142.18 ng/ul	96
30) 4-Chloroaniline	10.95	127	103800	53.09 ng/ul#	10
34) 2-Methylnaphthalene	12.54	142	183580	47.42 ng/ul	99
35) 1-Methylnaphthalene	12.76	142	112810	30.68 ng/ul	97
41) 1,1'-Biphenyl	13.54	154	43953	8.30 ng/ul	96
45) Dimethylphthalate	14.15	163	17449	3.03 ng/ul	98
48) Acenaphthylene	14.44	152	176162	25.57 ng/ul	95
50) Acenaphthene	14.77	153	28344	6.09 ng/ul	98
54) Dibenzofuran	15.11	168	159294	22.99 ng/ul	100
59) Fluorene	15.76	166	180781	32.20 ng/ul	99
61) 4-Nitroaniline	15.76	138	2130	1.76 ng/ul#	10
70) Phenanthrene	17.50	178	928545	94.14 ng/ul	97
72) Anthracene	17.60	178	339412	33.65 ng/ul	99
75) Carbazole	17.86	167	94113	11.07 ng/ul	98
77) Fluoranthene	19.51	202	663126	53.46 ng/ul	98
80) Pyrene	19.87	202	602994	47.63 ng/ul	99
83) Benzo(a)anthracene	21.72	228	332342	25.28 ng/ul	96
85) Chrysene	21.78	228	263239	21.02 ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	291417	22.14 ng/ul	96

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
Data File : BG020539.D
Acq On : 26 Dec 2015 14:11
Operator : UM/SJ
Sample : G4802-18
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
G9D93

Quant Time: Dec 28 01:25:11 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration

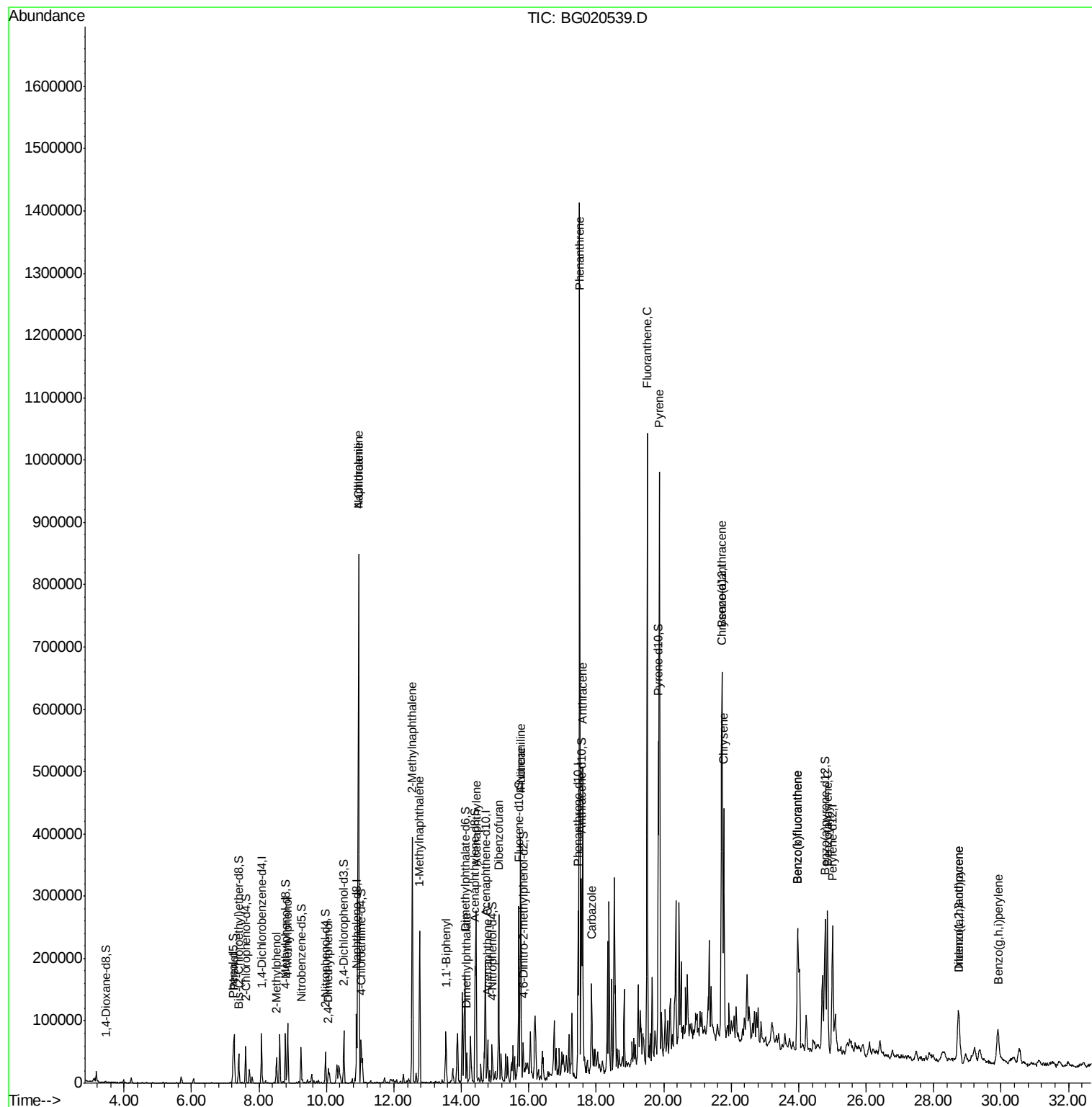
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	23.97	252	291417	22.90	ng/ul	98
91) Benzo(a)pyrene	24.85	252	252967	19.99	ng/ul	95
92) Indeno(1,2,3-cd)pyrene	28.73	276	72487	4.78	ng/ul	93
93) Dibenzo(a,h)anthracene	28.76	278	19813	1.58	ng/ul#	85
94) Benzo(g,h,i)perylene	29.91	276	112527	9.04	ng/ul	97

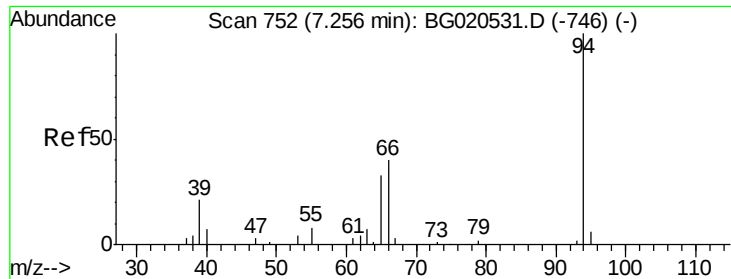
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122515\
Data File : BG020539.D
Acq On : 26 Dec 2015 14:11
Operator : UM/SJ
Sample : G4802-18
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
G9D93

Quant Time: Dec 28 01:25:11 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 01:15:44 2015
Response via : Initial Calibration





#6

Phenol

Concen: 22.46 ng/ul

RT: 7.26 min Scan# 753

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

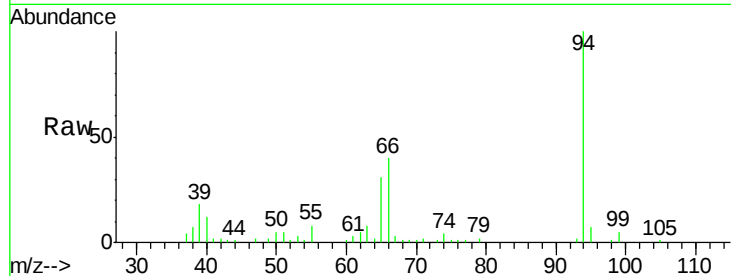
Tgt Ion: 94 Resp: 44084

Ion Ratio Lower Upper

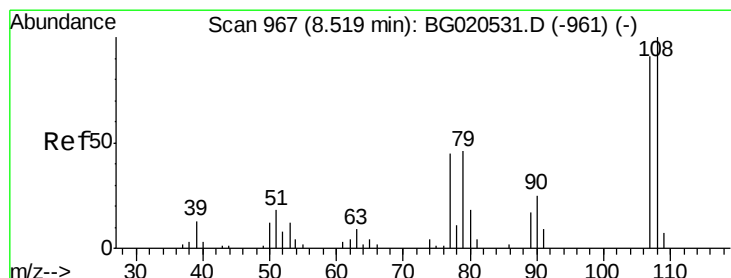
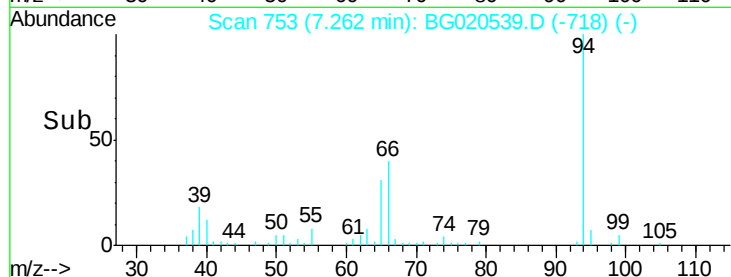
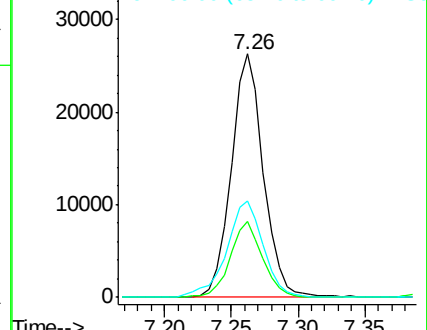
94 100

65 31.0 26.3 39.5

66 39.8 33.3 49.9



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



#11

2-Methylphenol

Concen: 9.42 ng/ul

RT: 8.52 min Scan# 967

Delta R.T. 0.00 min

Lab File: BG020539.D

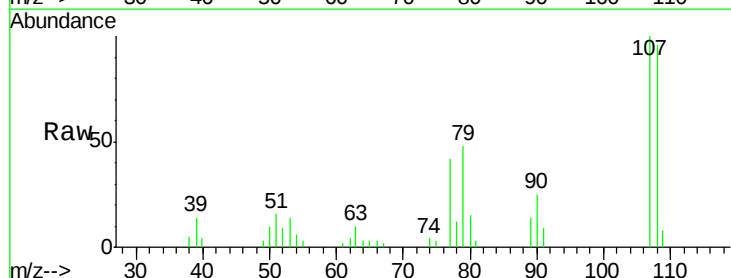
Acq: 26 Dec 2015 14:11

Tgt Ion: 108 Resp: 14348

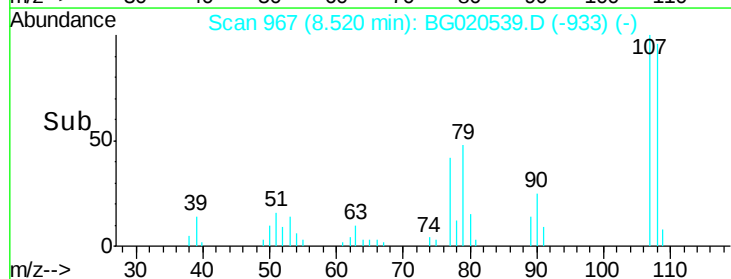
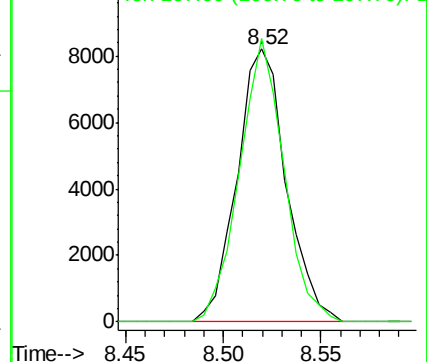
Ion Ratio Lower Upper

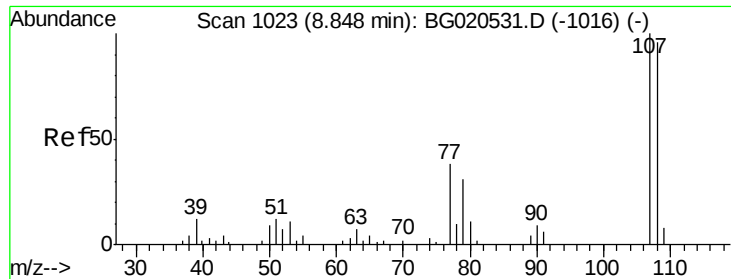
108 100

107 103.7 67.5 101.3#



Abundance Ion 108.00 (107.70 to 108.70): BGC
Ion 107.00 (106.70 to 107.70): BGC

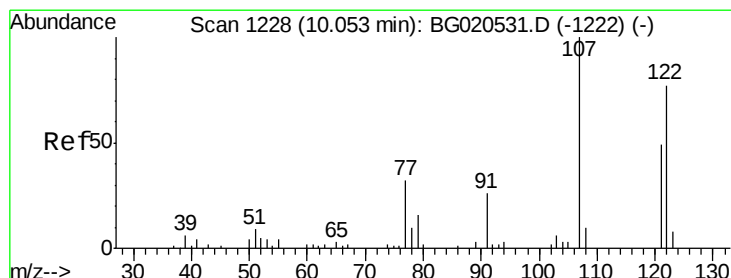
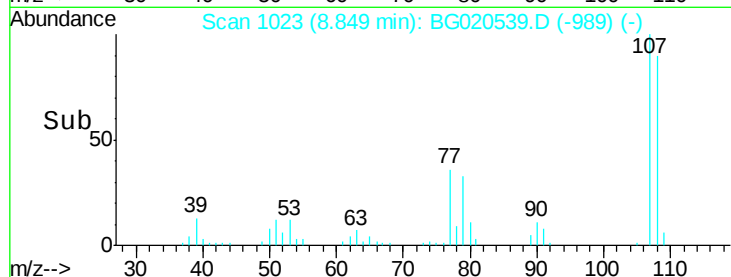
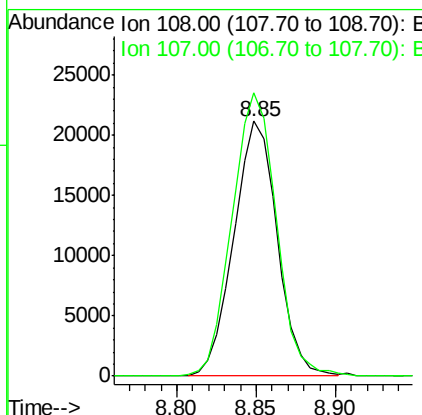
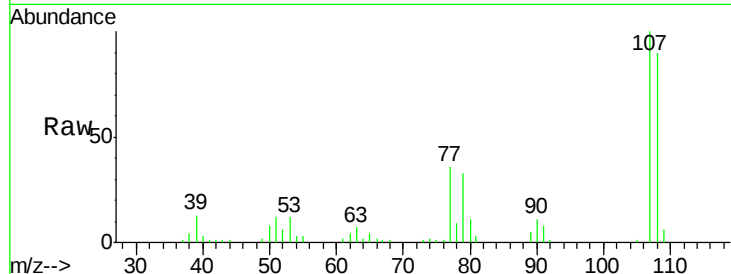




#16
 4-Methylphenol
 Concen: 24.47 ng/ul
 RT: 8.85 min Scan# 1023
 Delta R.T. 0.00 min
 Lab File: BG020539.D
 Acq: 26 Dec 2015 14:11

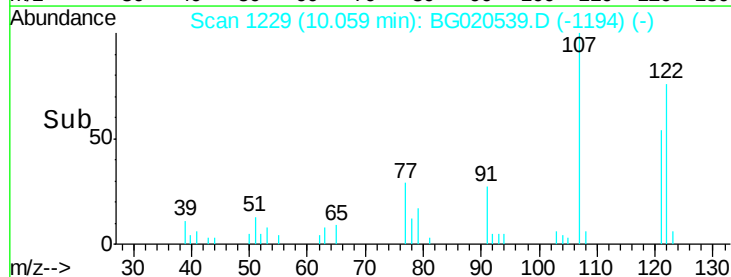
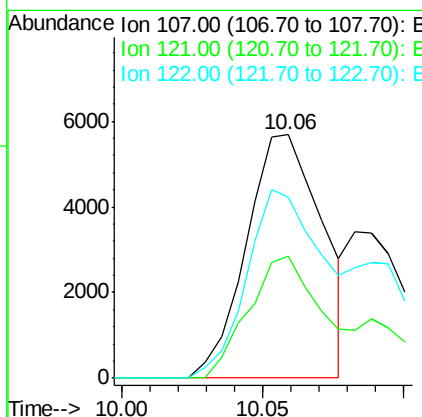
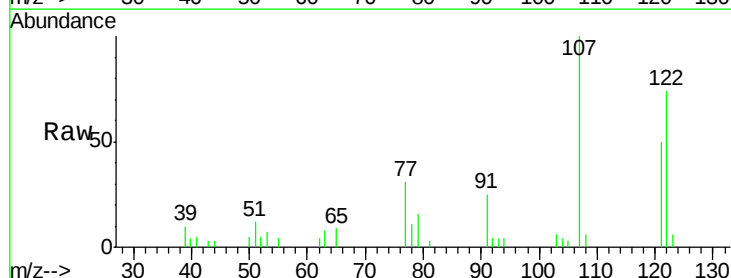
Instrument :
 BNA_G
 ClientSampleId :
 G9D93

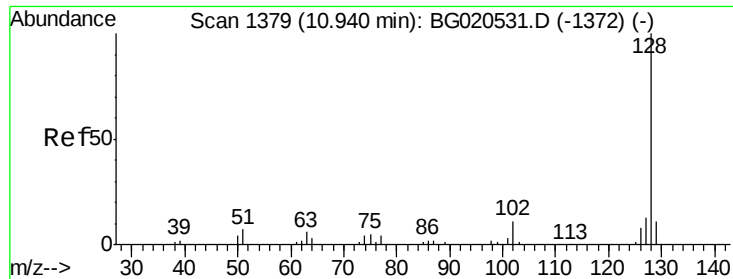
Tgt Ion:108 Resp: 40427
 Ion Ratio Lower Upper
 108 100
 107 111.1 88.9 133.3



#24
 2,4-Dimethylphenol
 Concen: 5.41 ng/ul
 RT: 10.06 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: BG020539.D
 Acq: 26 Dec 2015 14:11

Tgt Ion:107 Resp: 10641
 Ion Ratio Lower Upper
 107 100
 121 50.1 39.0 58.4
 122 74.3 62.1 93.1





#28

Naphthalene

Concen: 142.18 ng/ul

RT: 10.95 min Scan# 1381

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampled :

G9D93

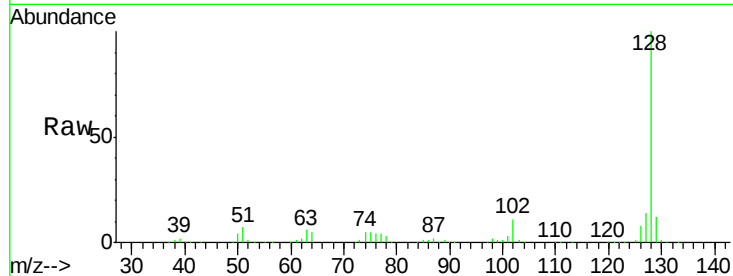
Tgt Ion:128 Resp: 743891

Ion Ratio Lower Upper

128 100

129 11.8 8.6 12.8

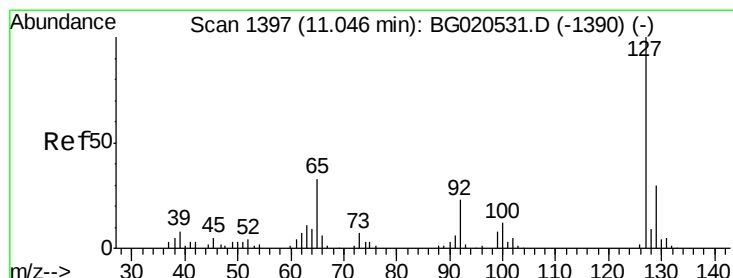
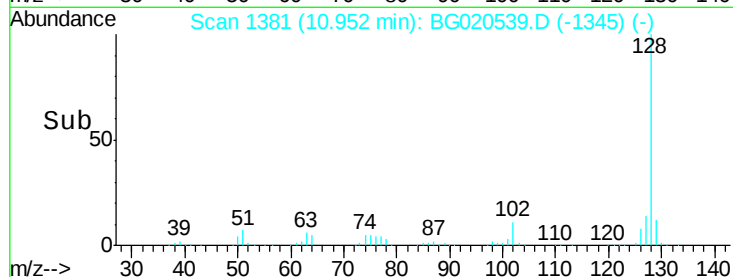
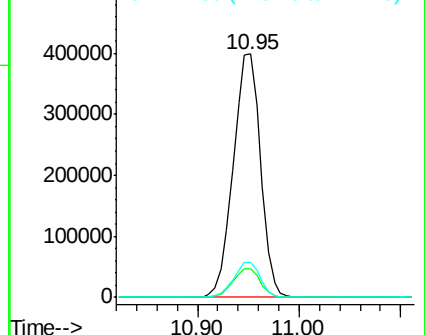
127 14.4 10.1 15.1



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: 53.09 ng/ul

RT: 10.95 min Scan# 1381

Delta R.T. -0.09 min

Lab File: BG020539.D

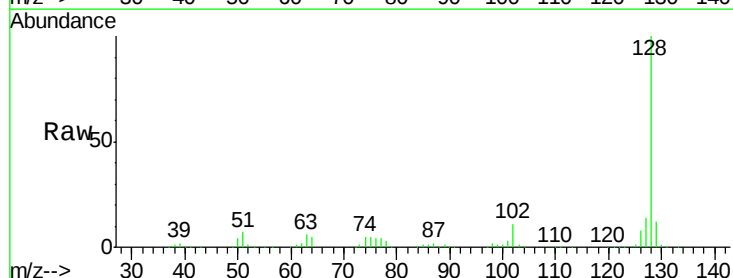
Acq: 26 Dec 2015 14:11

Tgt Ion:127 Resp: 103800

Ion Ratio Lower Upper

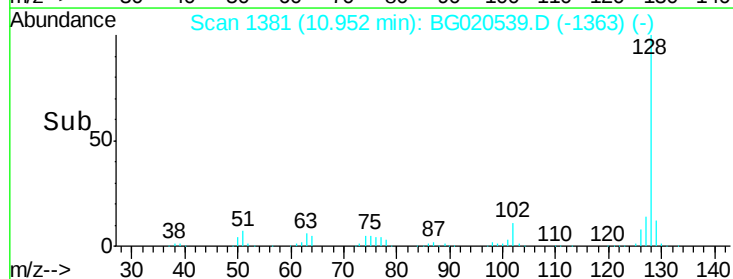
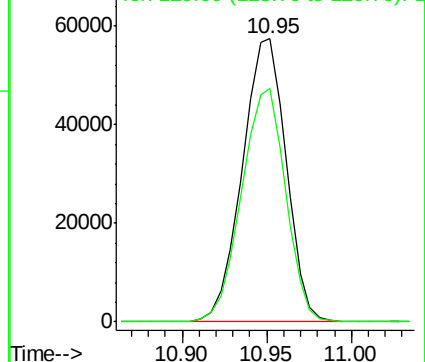
127 100

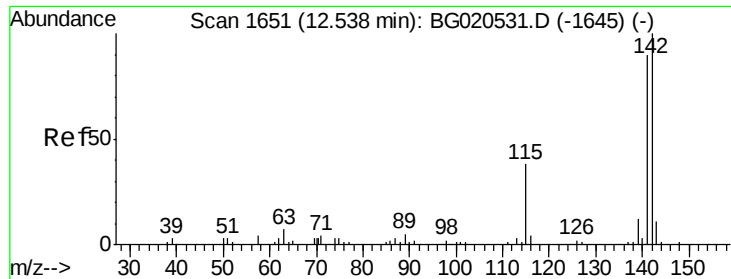
129 82.3 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

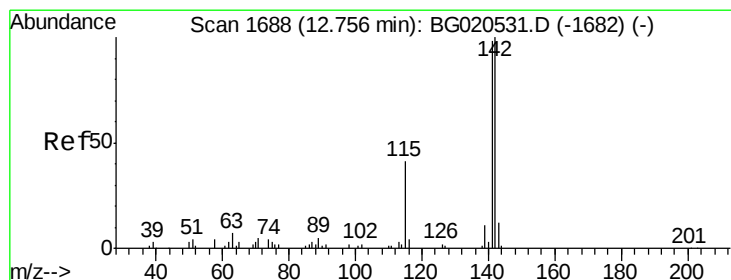
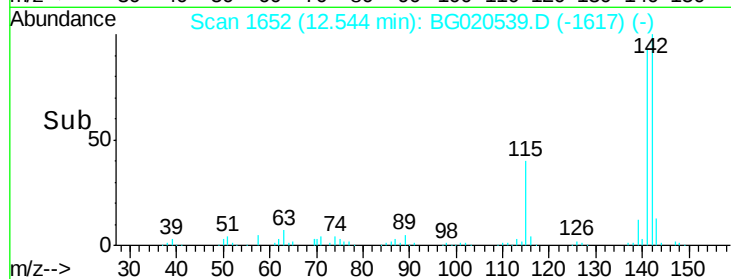
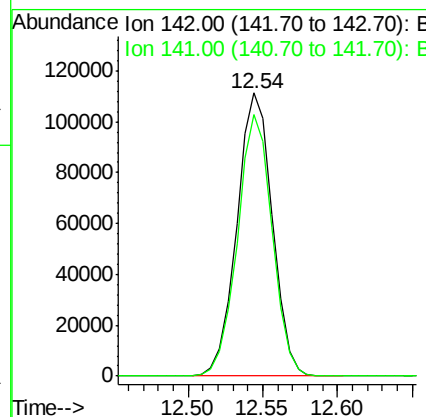
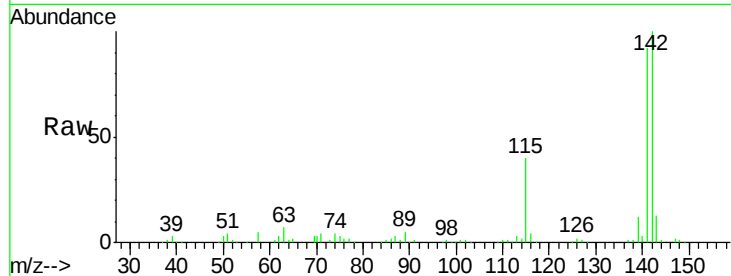




#34
 2-Methylnaphthalene
 Concen: 47.42 ng/ul
 RT: 12.54 min Scan# 1652
 Delta R.T. 0.01 min
 Lab File: BG020539.D
 Acq: 26 Dec 2015 14:11

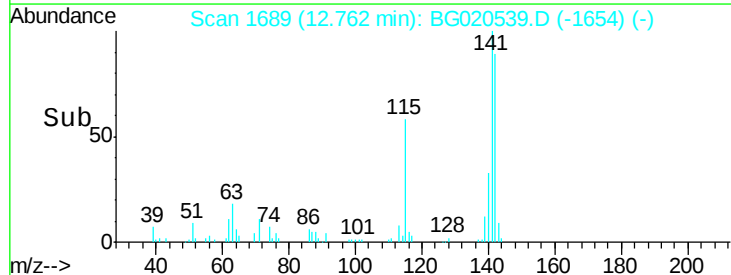
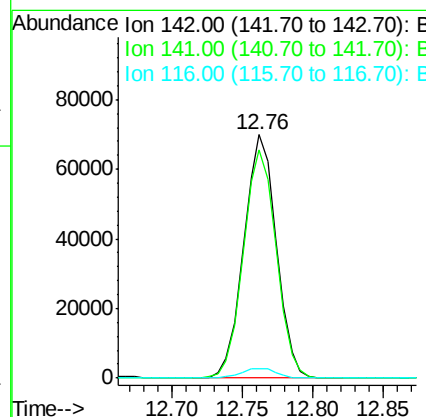
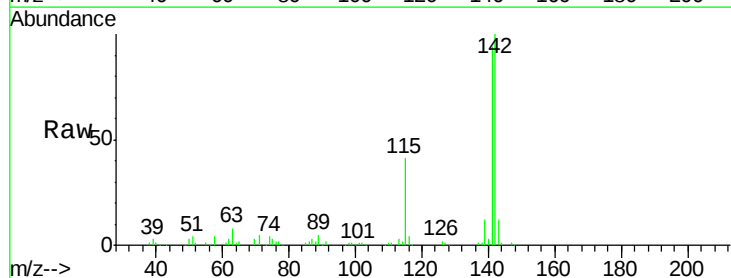
Instrument :
 BNA_G
 ClientSampleId :
 G9D93

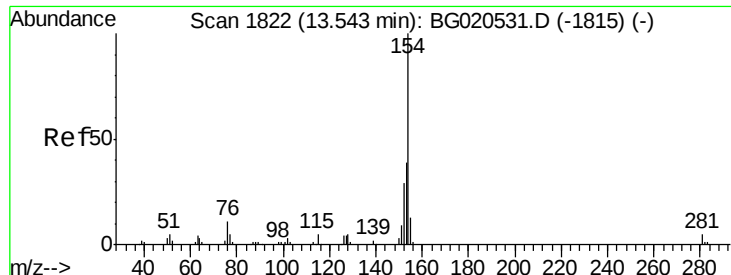
Tgt Ion:142 Resp: 183580
 Ion Ratio Lower Upper
 142 100
 141 92.4 74.9 112.3



#35
 1-Methylnaphthalene
 Concen: 30.68 ng/ul
 RT: 12.76 min Scan# 1689
 Delta R.T. 0.01 min
 Lab File: BG020539.D
 Acq: 26 Dec 2015 14:11

Tgt Ion:142 Resp: 112810
 Ion Ratio Lower Upper
 142 100
 141 93.9 73.0 109.6
 116 3.8 3.0 4.6

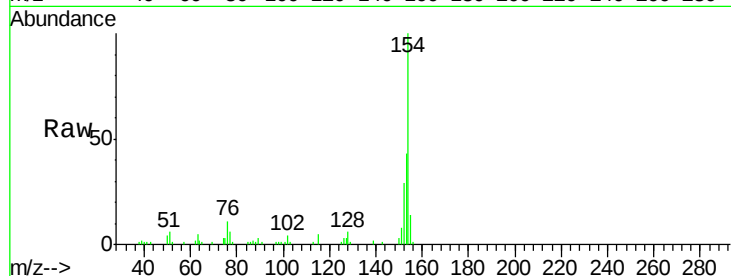




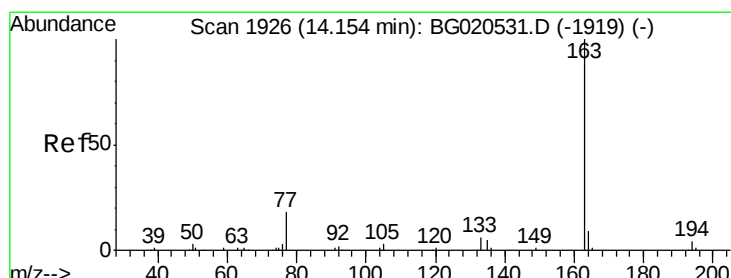
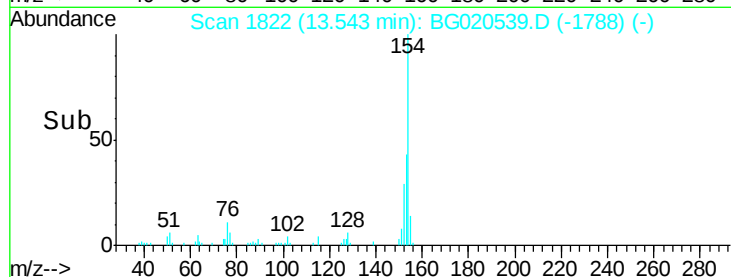
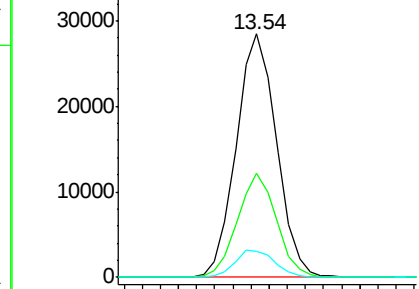
#41
1,1'-Biphenyl
Concen: 8.30 ng/ul
RT: 13.54 min Scan# 1822
Delta R.T. 0.00 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

Instrument :
BNA_G
ClientSampleId :
G9D93

Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.5	35.5	53.3
76	10.6	10.4	15.6

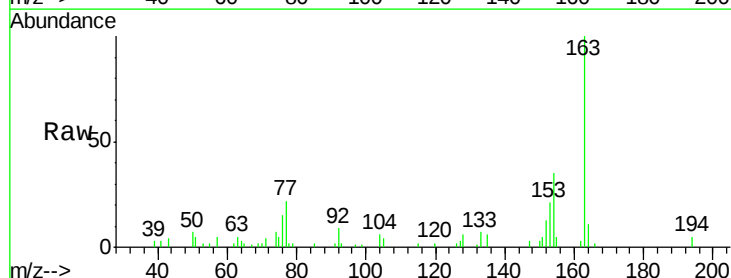


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BGC

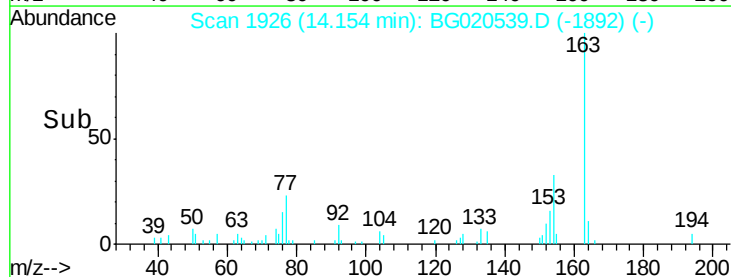
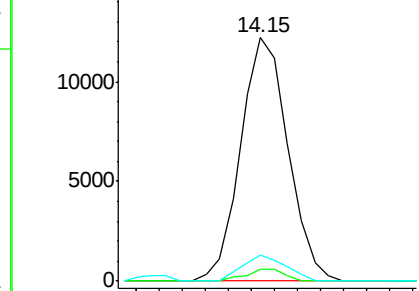


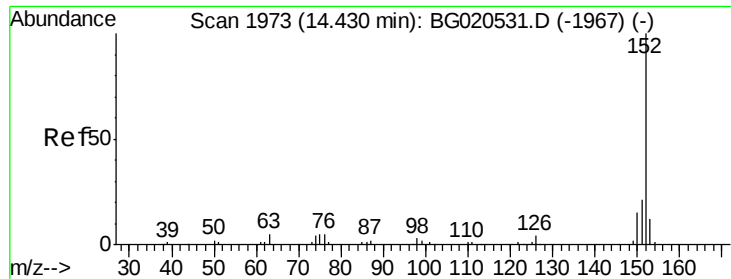
#45
Dimethylphthalate
Concen: 3.03 ng/ul
RT: 14.15 min Scan# 1926
Delta R.T. 0.00 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.9	3.5	5.3
164	10.6	7.7	11.5



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 25.57 ng/ul

RT: 14.44 min Scan# 1974

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

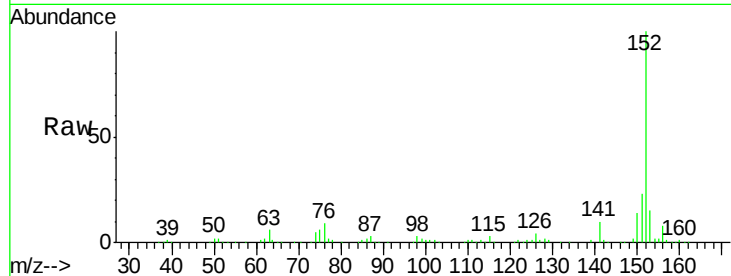
Tgt Ion:152 Resp: 176162

Ion Ratio Lower Upper

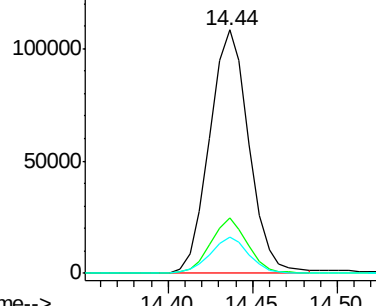
152 100

151 22.9 16.4 24.6

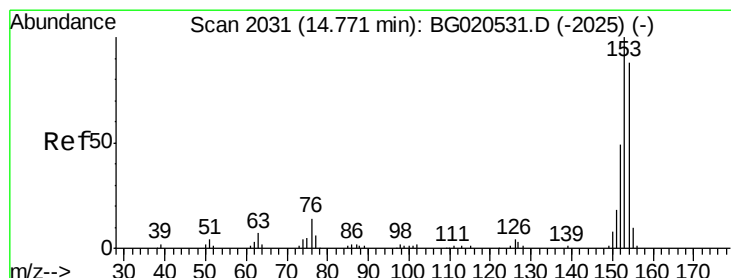
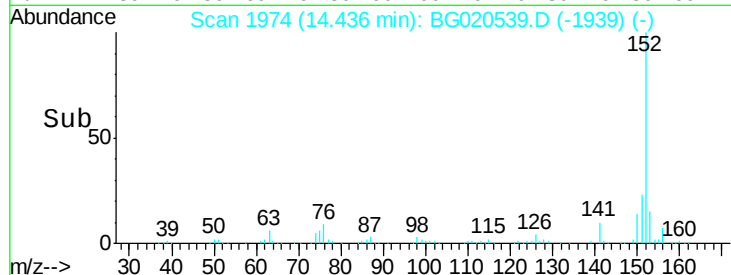
153 14.8 10.4 15.6



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



Time-->



#50

Acenaphthene

Concen: 6.09 ng/ul

RT: 14.77 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

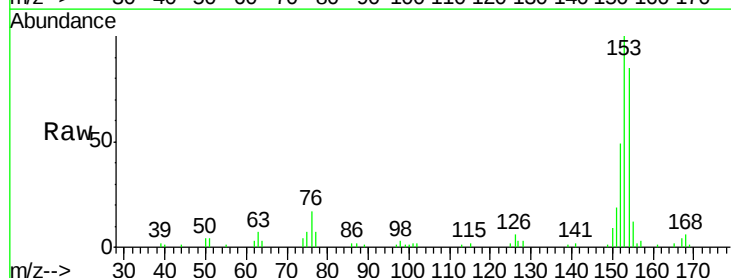
Tgt Ion:153 Resp: 28344

Ion Ratio Lower Upper

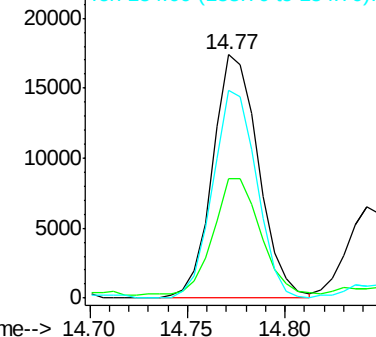
153 100

152 49.2 37.6 56.4

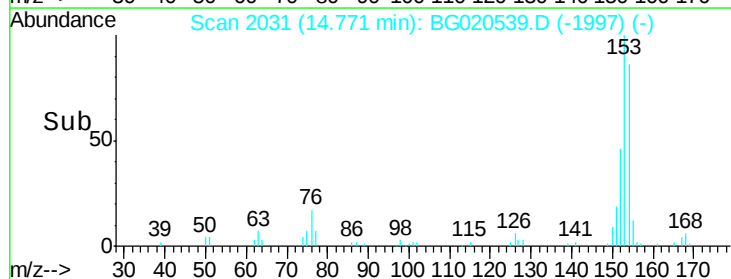
154 85.4 67.9 101.9

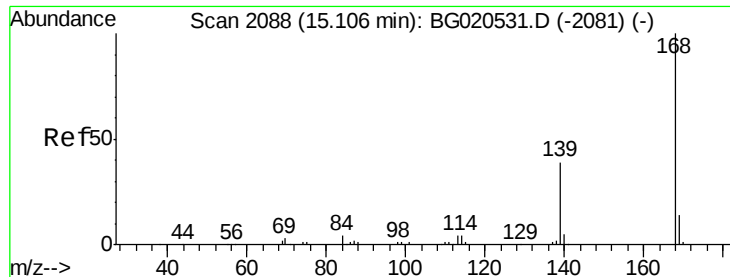


Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



Time-->





#54

Dibenzenofuran

Concen: 22.99 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

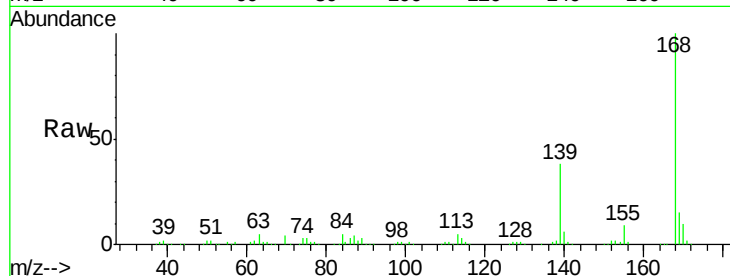
G9D93

Tgt Ion:168 Resp: 159294

Ion Ratio Lower Upper

168 100

139 37.8 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

120000

100000

80000

60000

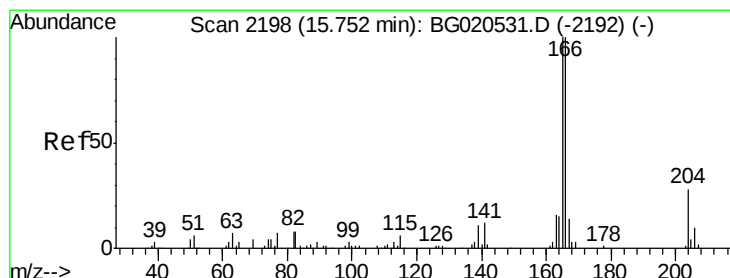
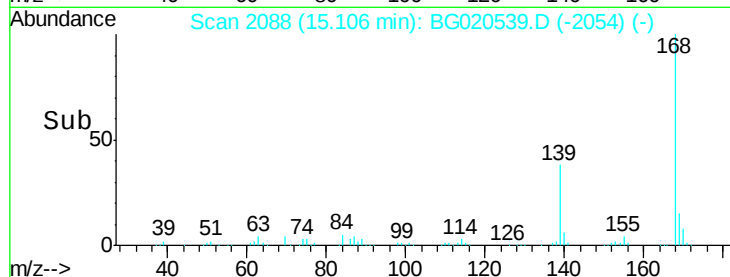
40000

20000

0

15.11

Time-->



#59

Fluorene

Concen: 32.20 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

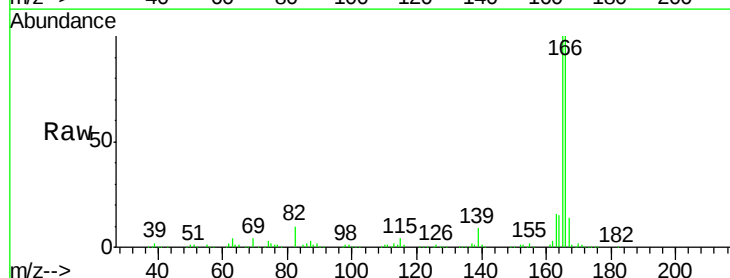
Tgt Ion:166 Resp: 180781

Ion Ratio Lower Upper

166 100

165 100.3 81.4 122.0

167 14.2 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

150000

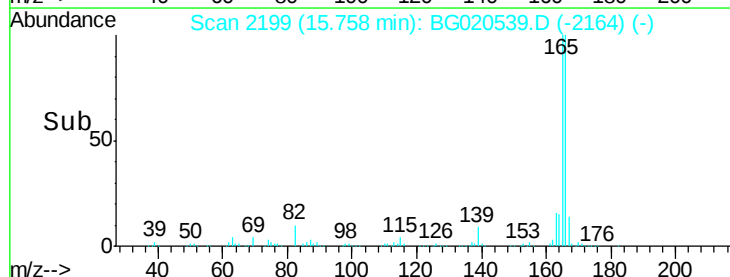
100000

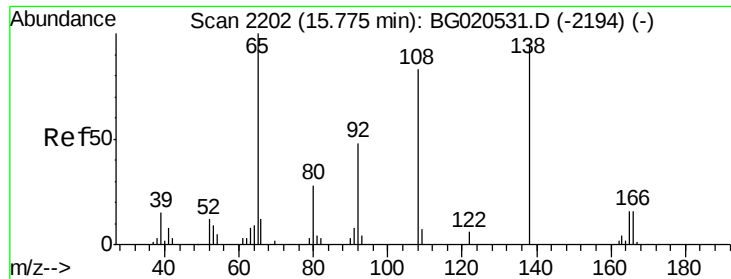
50000

0

15.76

Time-->

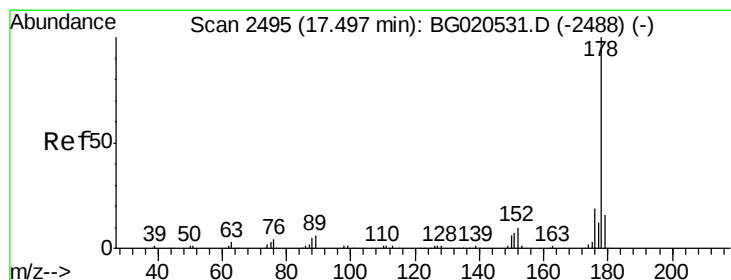
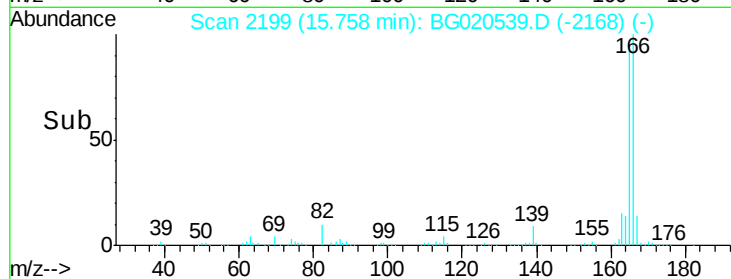
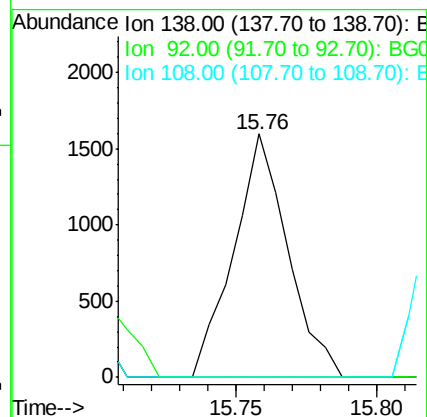
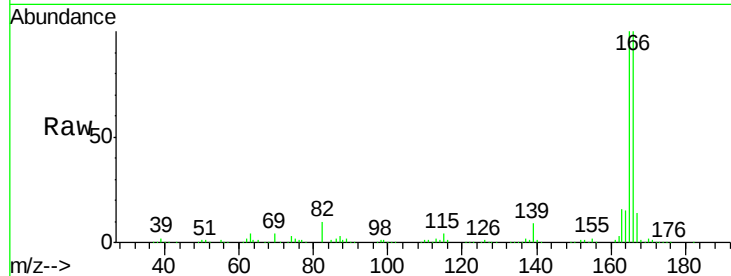




#61
4-Nitroaniline
Concen: 1.76 ng/ul
RT: 15.76 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

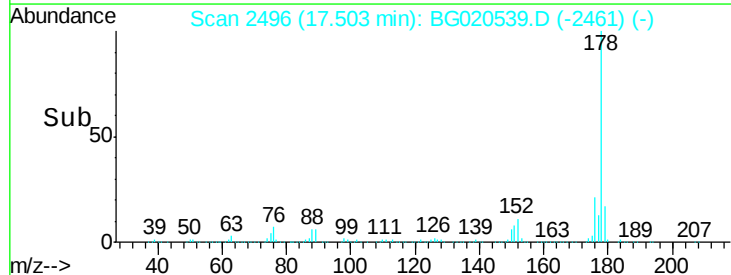
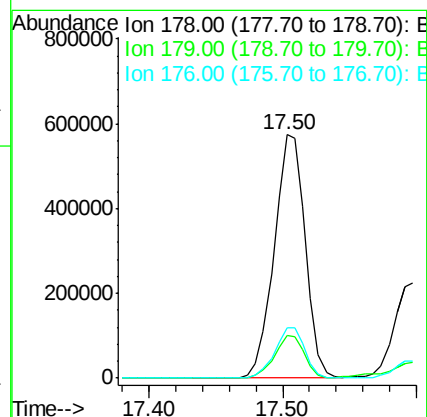
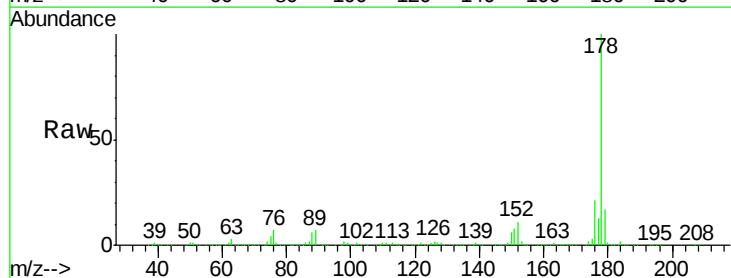
Instrument :
BNA_G
ClientSampleId :
G9D93

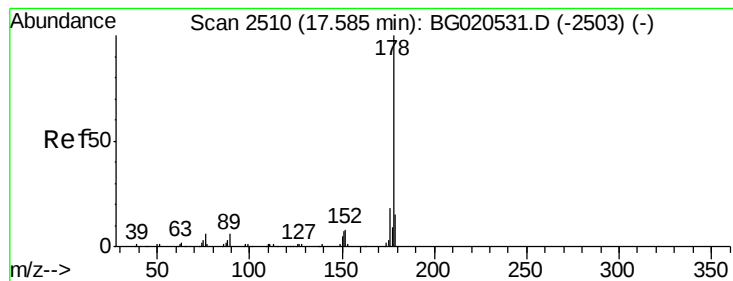
Tgt Ion:138 Resp: 2130
Ion Ratio Lower Upper
138 100
92 0.0 45.2 67.8#
108 0.0 75.4 113.0#



#70
Phenanthrene
Concen: 94.14 ng/ul
RT: 17.50 min Scan# 2496
Delta R.T. 0.01 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

Tgt Ion:178 Resp: 928545
Ion Ratio Lower Upper
178 100
179 17.3 12.9 19.3
176 20.6 15.3 22.9





#72

Anthracene

Concen: 33.65 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

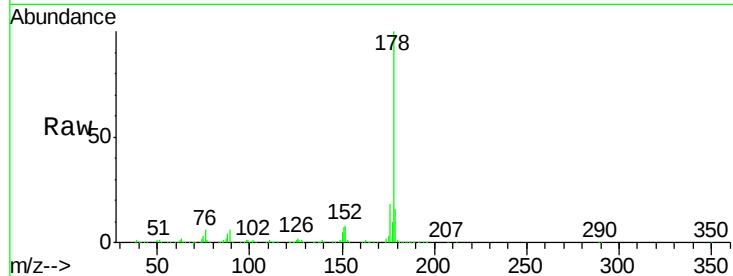
Tgt Ion:178 Resp: 339412

Ion Ratio Lower Upper

178 100

179 16.0 12.3 18.5

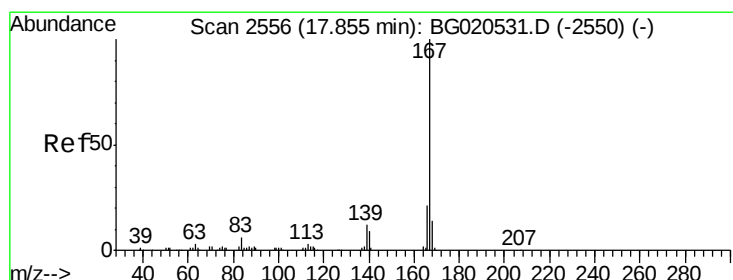
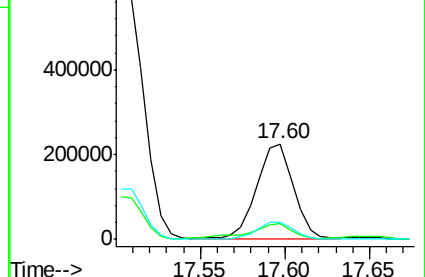
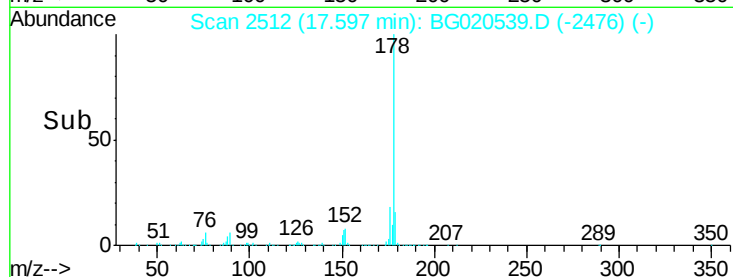
176 17.9 14.3 21.5



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: 11.07 ng/ul

RT: 17.86 min Scan# 2557

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

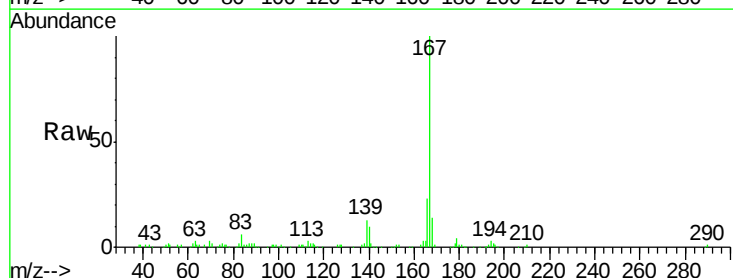
Tgt Ion:167 Resp: 94113

Ion Ratio Lower Upper

167 100

166 22.6 17.0 25.6

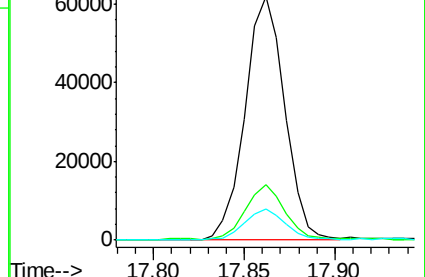
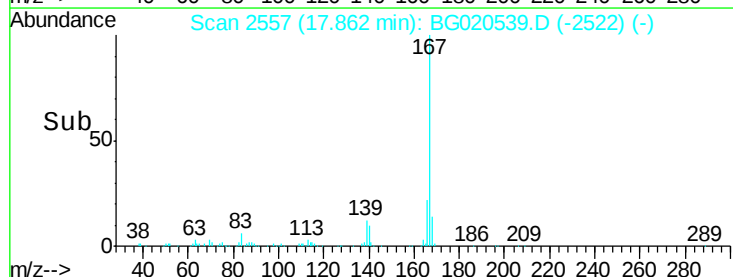
139 12.8 10.1 15.1

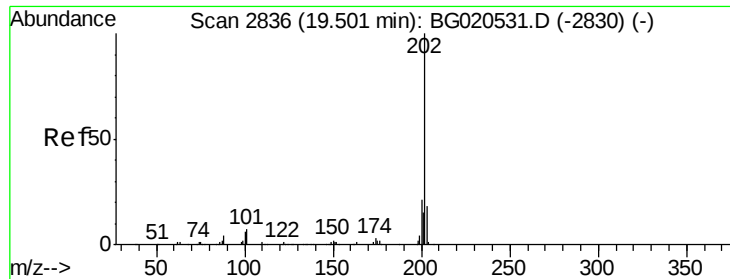


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 53.46 ng/ul

RT: 19.51 min Scan# 2838

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

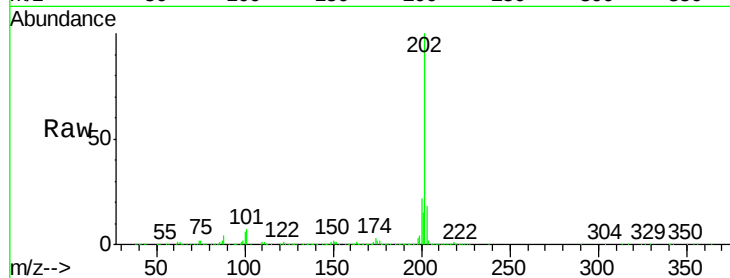
Tgt Ion:202 Resp: 663126

Ion Ratio Lower Upper

202 100

101 7.1 6.2 9.4

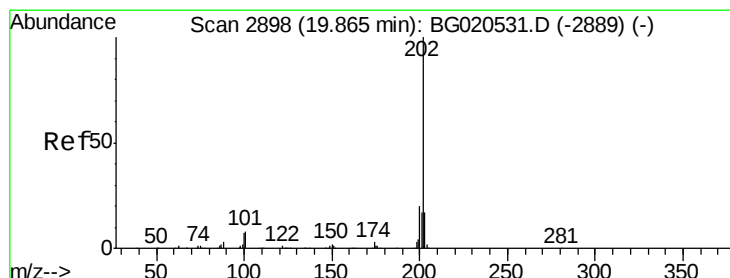
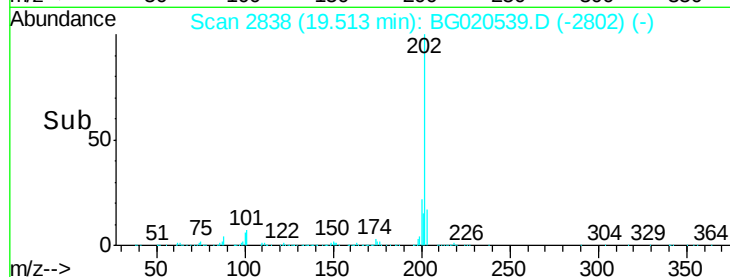
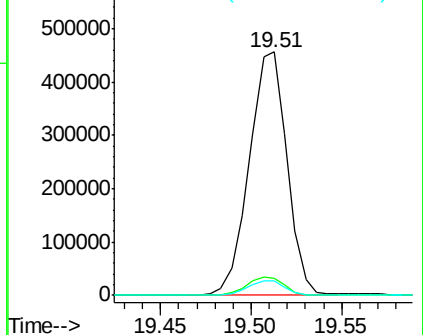
100 6.0 5.1 7.7



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): B



#80

Pyrene

Concen: 47.63 ng/ul

RT: 19.87 min Scan# 2899

Delta R.T. 0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

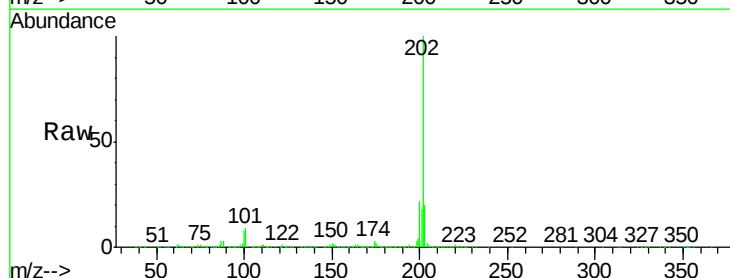
Tgt Ion:202 Resp: 602994

Ion Ratio Lower Upper

202 100

101 8.9 7.0 10.4

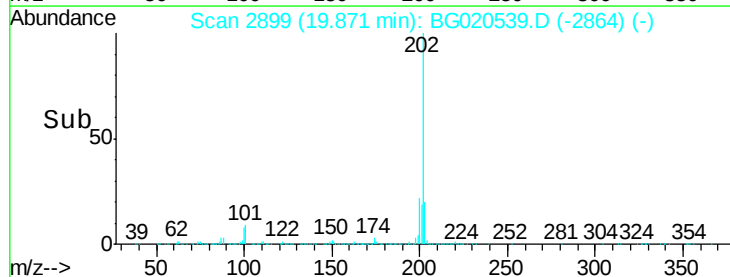
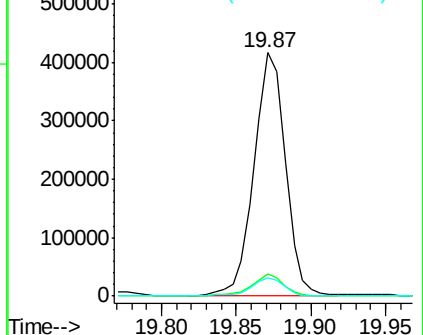
100 7.8 6.4 9.6

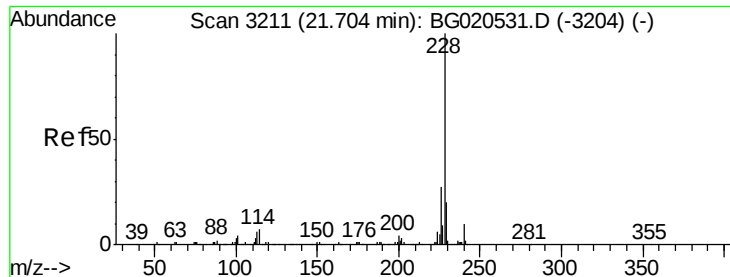


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

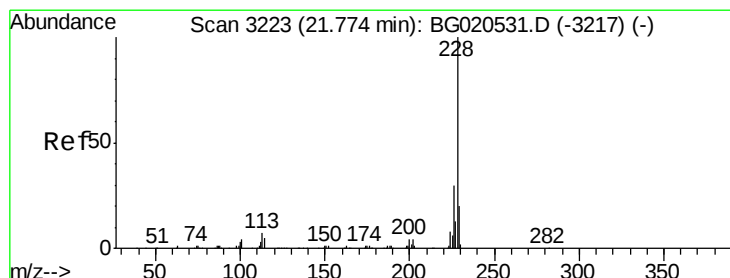
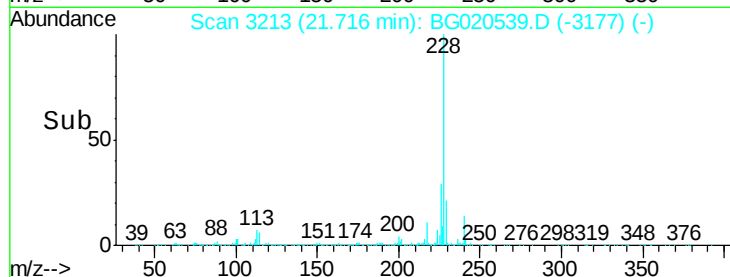
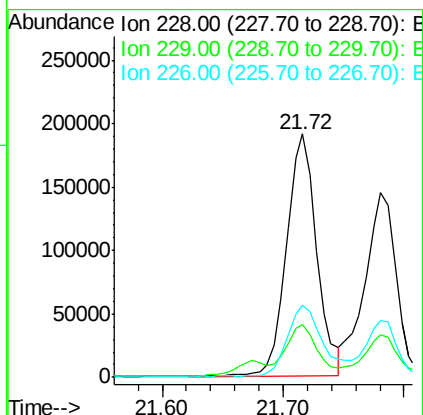
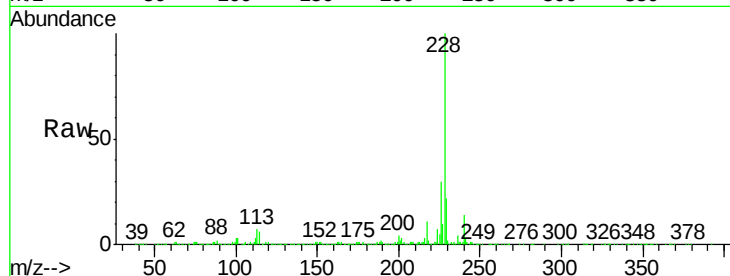




#83
Benzo(a)anthracene
Concen: 25.28 ng/ul
RT: 21.72 min Scan# 3213
Delta R.T. 0.01 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

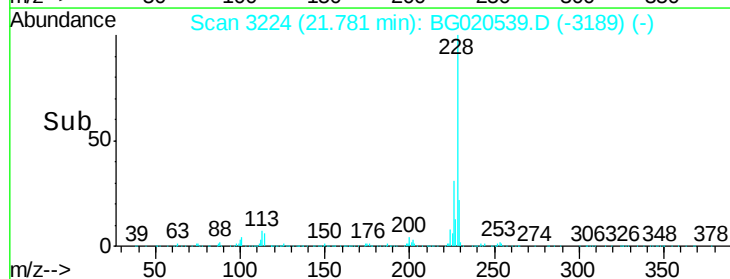
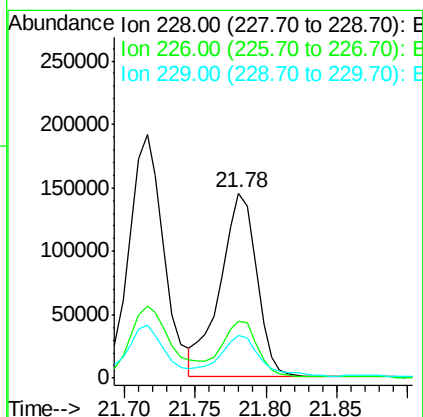
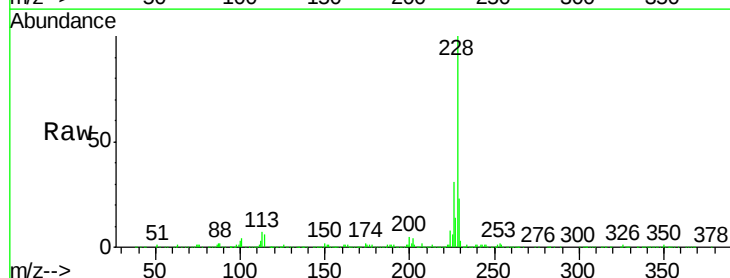
Instrument :
BNA_G
ClientSampleId :
G9D93

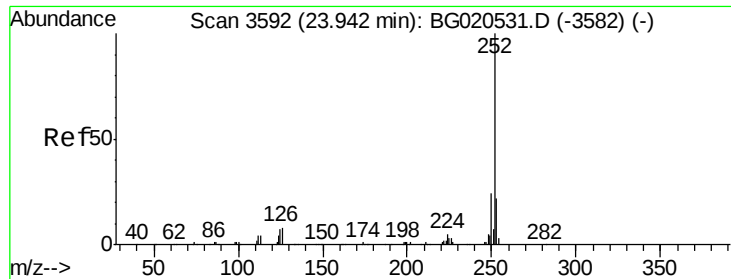
Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.6	15.8	23.8
226	29.6	21.8	32.6



#85
Chrysene
Concen: 21.02 ng/ul
RT: 21.78 min Scan# 3224
Delta R.T. 0.01 min
Lab File: BG020539.D
Acq: 26 Dec 2015 14:11

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.9	35.9
229	23.2	15.6	23.4





#88

Benzo(b)fluoranthene

Concen: 22.14 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. 0.02 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

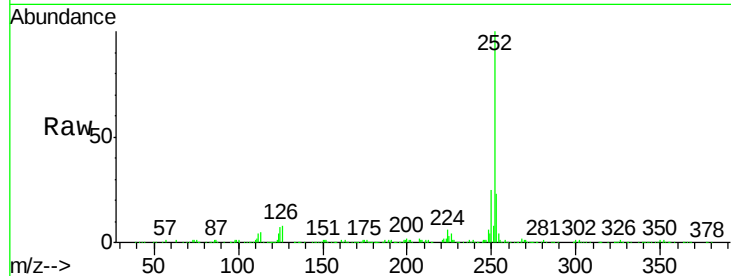
Instrument :

BNA_G

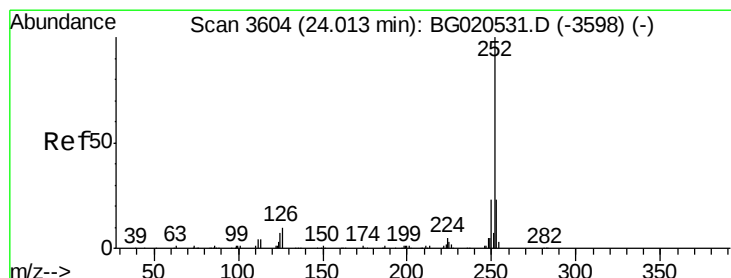
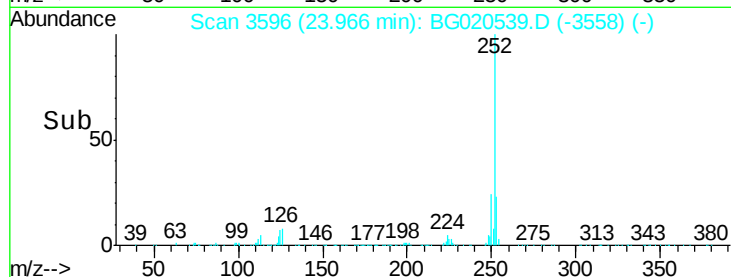
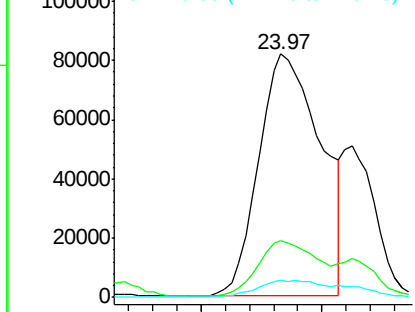
ClientSampleId :

G9D93

Tgt Ion:	252	Resp:	291417
Ion Ratio	Lower	Upper	
252	100		
253	23.4	16.7	25.1
125	7.0	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: 22.90 ng/ul

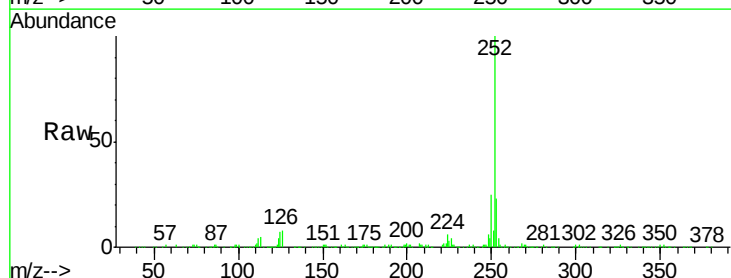
RT: 23.97 min Scan# 3596

Delta R.T. -0.05 min

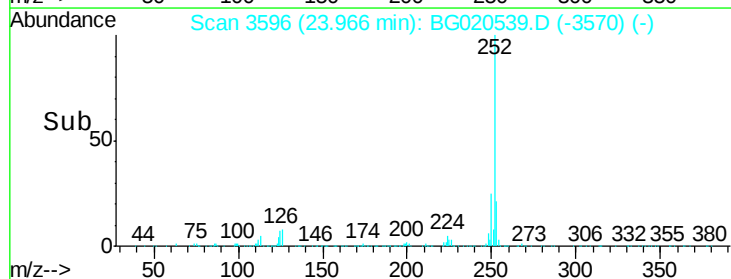
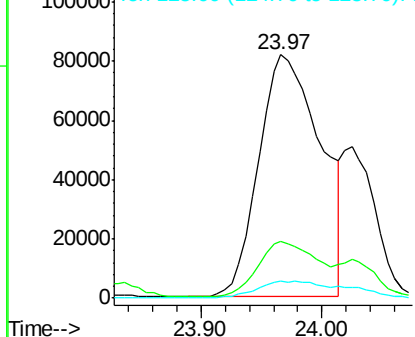
Lab File: BG020539.D

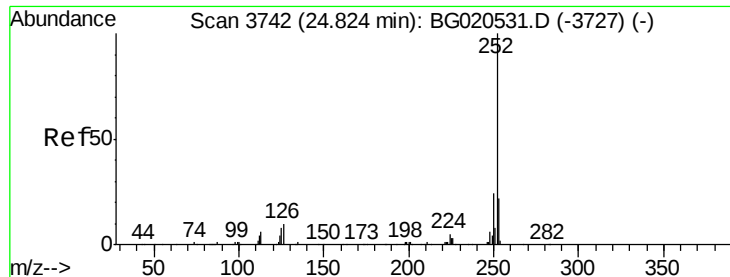
Acq: 26 Dec 2015 14:11

Tgt Ion:	252	Resp:	291417
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.9	26.9
125	7.0	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: 19.99 ng/ul

RT: 24.85 min Scan# 3747

Delta R.T. 0.03 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

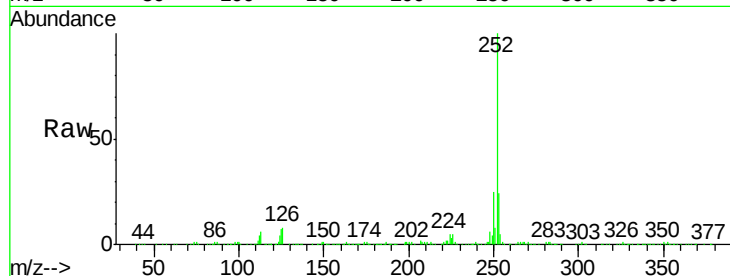
Tgt Ion:252 Resp: 252967

Ion Ratio Lower Upper

252 100

253 23.6 17.0 25.4

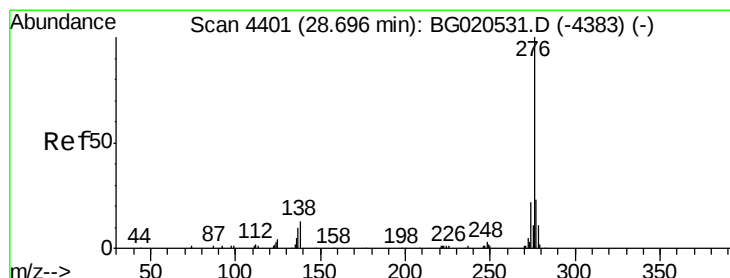
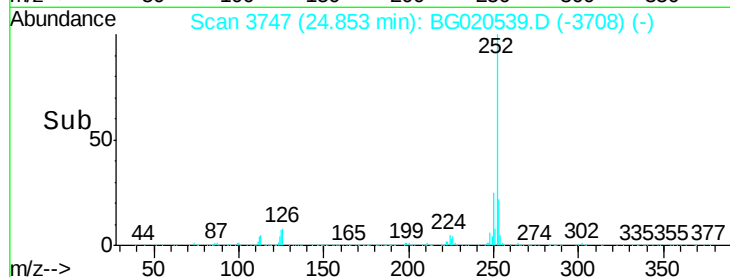
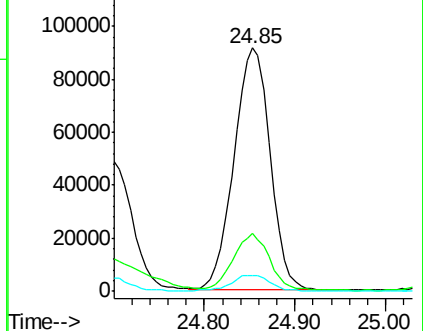
125 6.7 6.2 9.4



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: 4.78 ng/ul

RT: 28.73 min Scan# 4407

Delta R.T. 0.04 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

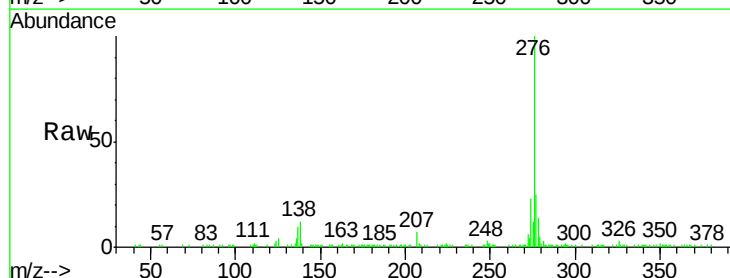
Tgt Ion:276 Resp: 72487

Ion Ratio Lower Upper

276 100

138 11.9 11.4 17.0

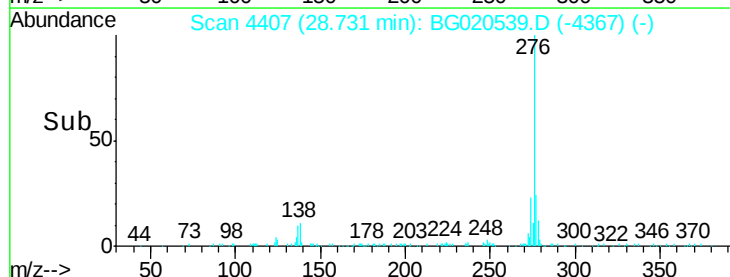
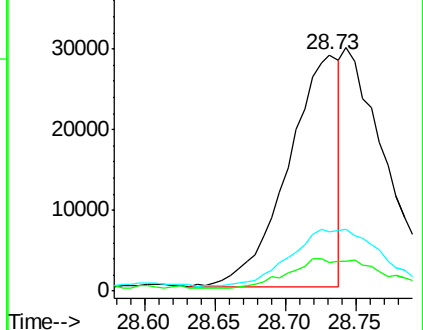
277 25.3 17.4 26.0

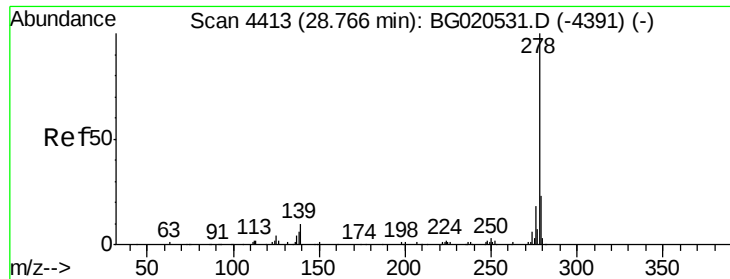


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 1.58 ng/ul

RT: 28.76 min Scan# 4412

Delta R.T. -0.01 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

Instrument :

BNA_G

ClientSampleId :

G9D93

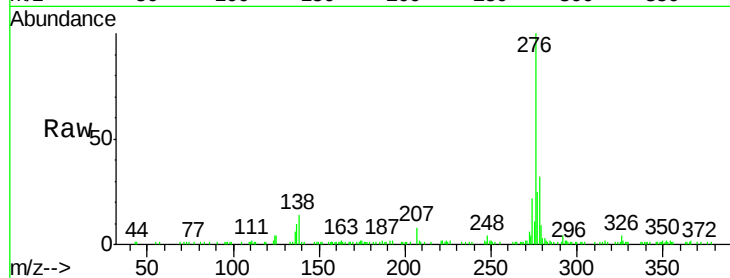
Tgt Ion:278 Resp: 19813

Ion Ratio Lower Upper

278 100

139 3.1 9.4 14.2#

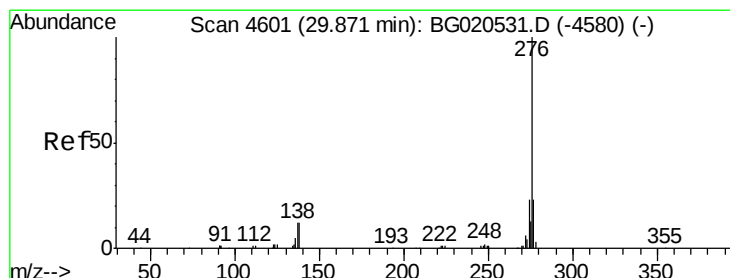
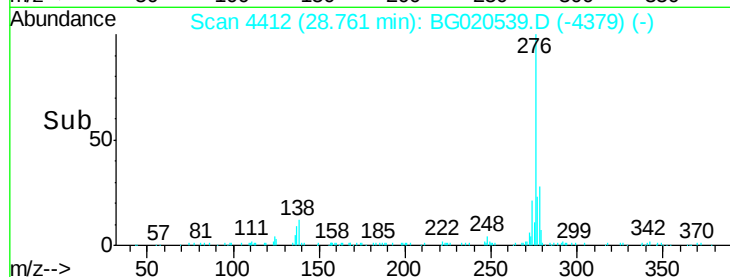
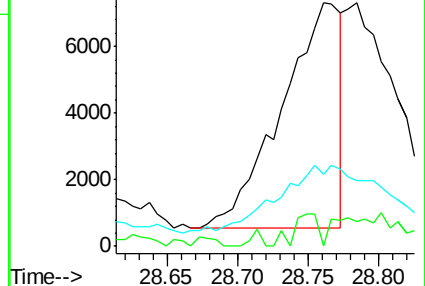
279 29.5 19.4 29.0#



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: 9.04 ng/ul

RT: 29.91 min Scan# 4607

Delta R.T. 0.04 min

Lab File: BG020539.D

Acq: 26 Dec 2015 14:11

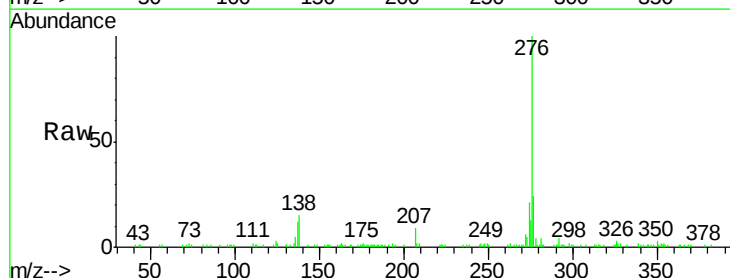
Tgt Ion:276 Resp: 112527

Ion Ratio Lower Upper

276 100

138 15.0 10.8 16.2

277 23.9 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

