

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG021916\
 Data File : BG021000.D
 Acq On : 20 Feb 2016 9:21
 Operator : SJ/UM
 Sample : H1520-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40055(0-2)

Quant Time: Feb 21 22:50:57 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG021116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 11 15:26:53 2016
 Response via : Initial Calibration

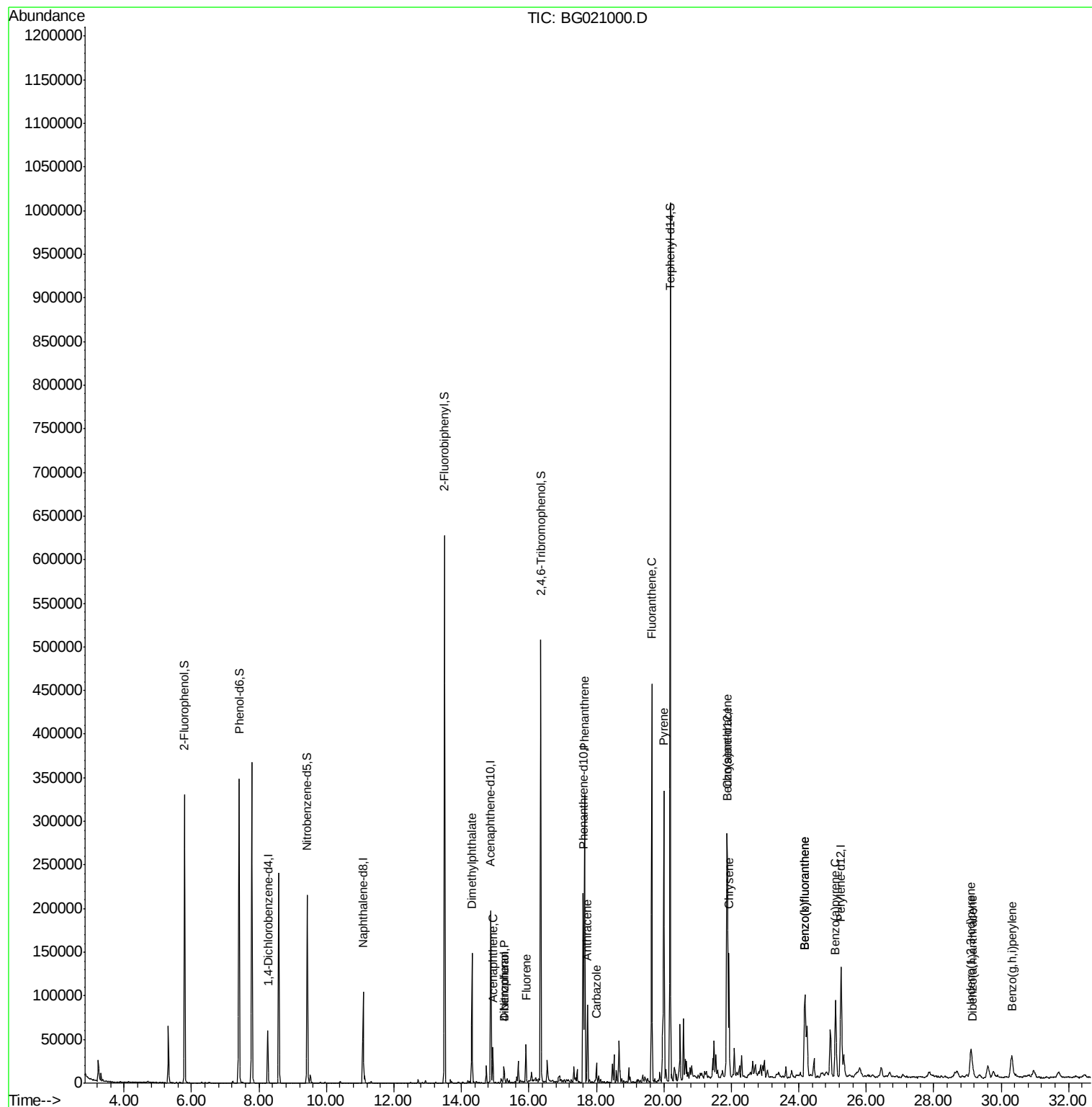
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	19950	20.00	ng	0.00
21) Naphthalene-d8	11.09	136	103970	20.00	ng	-0.01
38) Acenaphthene-d10	14.87	164	67807	20.00	ng	-0.02
63) Phenanthrene-d10	17.61	188	136706	20.00	ng	-0.01
75) Chrysene-d12	21.88	240	129159	20.00	ng	-0.02
86) Perylene-d12	25.26	264	122184	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.79	112	182867	154.36	ng	0.00
7) Phenol-d6	7.41	99	267815	154.67	ng	0.00
23) Nitrobenzene-d5	9.43	82	143406	90.69	ng	-0.01
41) 2,4,6-Tribromophenol	16.35	330	96973	145.43	ng	-0.01
44) 2-Fluorobiphenyl	13.50	172	331420	68.66	ng	-0.01
78) Terphenyl-d14	20.19	244	406545	73.43	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	14.31	163	106790	20.14	ng	100
51) Acenaphthene	14.93	154	16035	3.55	ng	99
54) Dibenzofuran	15.26	168	13660	2.29	ng	97
55) 4-Nitrophenol	15.26	139	5030	5.04	ng	# 20
57) Fluorene	15.91	166	19450	3.54	ng	97
70) Phenanthrene	17.65	178	204069	26.22	ng	99
71) Anthracene	17.74	178	58166	7.36	ng	98
72) Carbazole	18.01	167	16624	2.35	ng	99
74) Fluoranthene	19.64	202	262142	31.18	ng	99
77) Pyrene	20.00	202	209269	24.56	ng	98
80) Benzo(a)anthracene	21.87	228	112593	14.60	ng	98
82) Chrysene	21.93	228	94571	13.04	ng	98
85) Indeno(1,2,3-cd)pyrene	29.10	276	55285	6.63	ng	# 93
87) Benzo(b)fluoranthene	24.18	252	121876	16.30	ng	100
88) Benzo(k)fluoranthene	24.18	252	121876	16.63	ng	100
89) Benzo(a)pyrene	25.09	252	88172	12.38	ng	97
90) Dibenzo(a,h)anthracene	29.16	278	15447	2.23	ng	95
91) Benzo(g,h,i)perylene	30.31	276	47312	6.88	ng	98

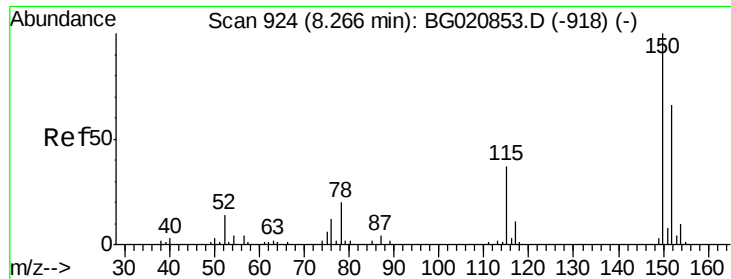
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.26 min Scan# 923

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

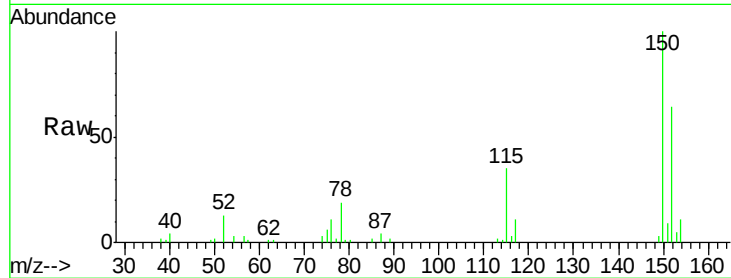
Tgt Ion:152 Resp: 19950

Ion Ratio Lower Upper

152 100

150 155.5 122.0 183.0

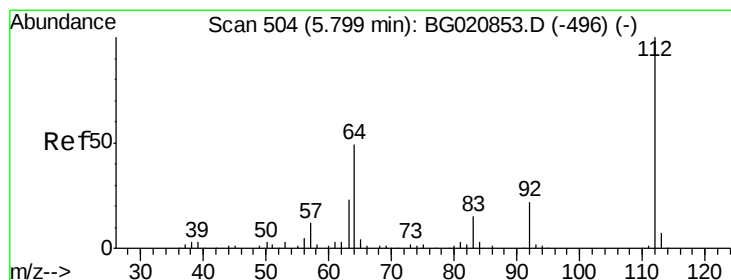
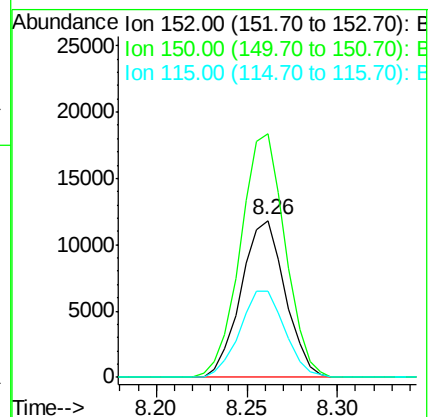
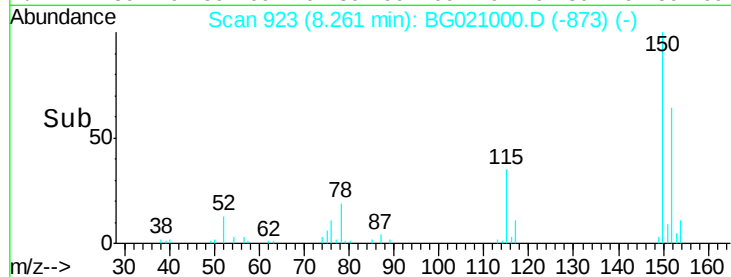
115 55.2 45.2 67.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 154.36 ng

RT: 5.79 min Scan# 503

Delta R.T. -0.00 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

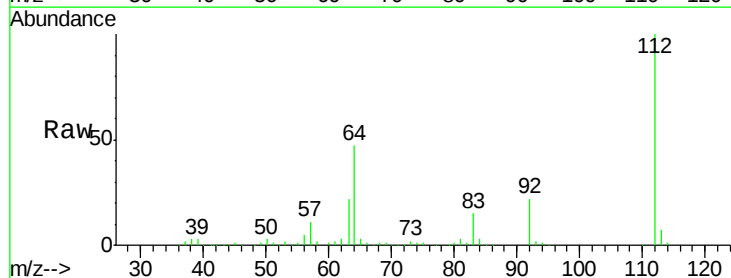
Tgt Ion:112 Resp: 182867

Ion Ratio Lower Upper

112 100

64 46.9 39.3 58.9

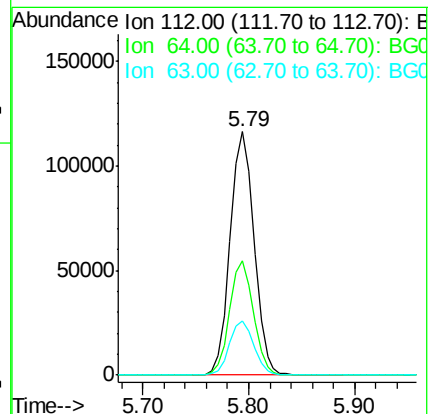
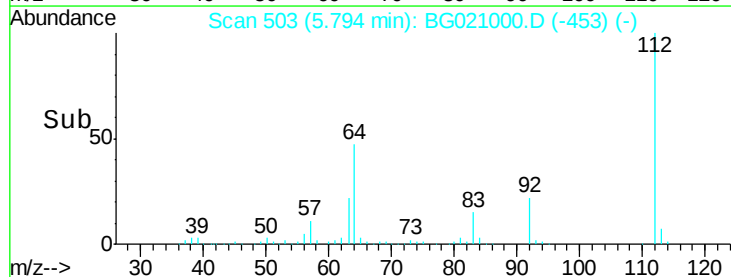
63 22.2 18.2 27.4

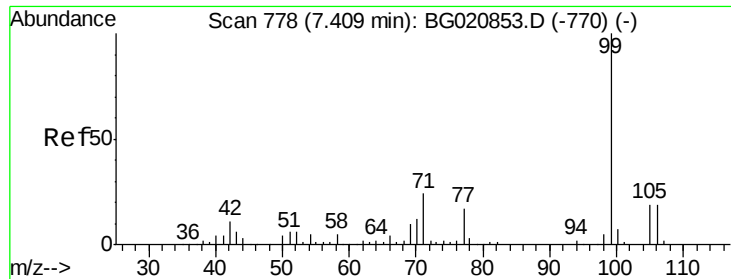


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 154.67 ng

RT: 7.41 min Scan# 778

Delta R.T. 0.00 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

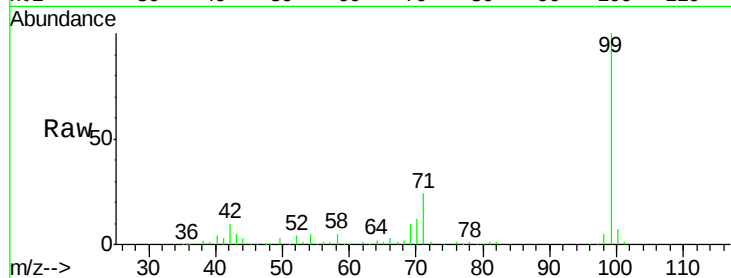
Tgt Ion: 99 Resp: 267815

Ion Ratio Lower Upper

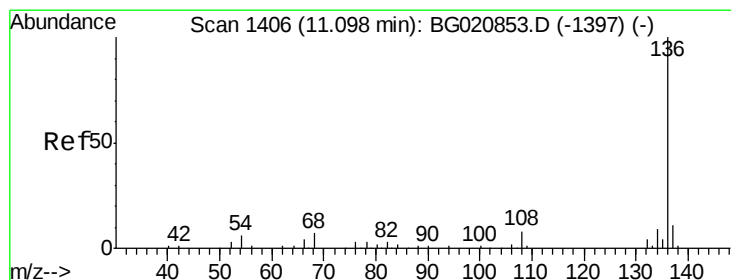
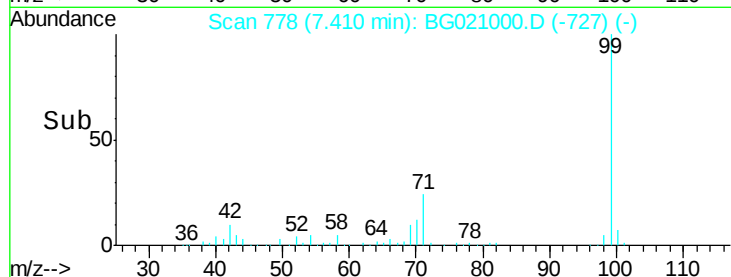
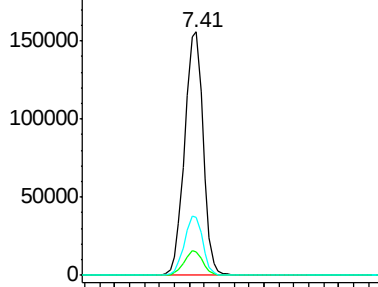
99 100

42 9.9 8.4 12.6

71 23.9 19.4 29.0



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.09 min Scan# 1404

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Tgt Ion: 136 Resp: 103970

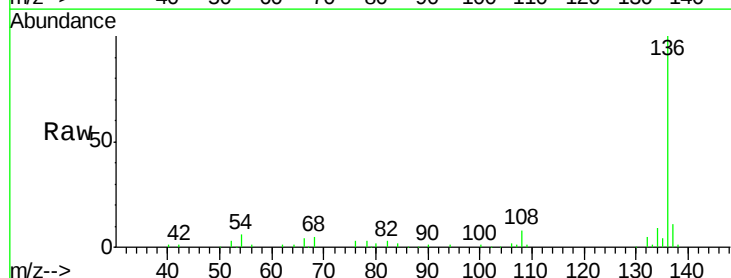
Ion Ratio Lower Upper

136 100

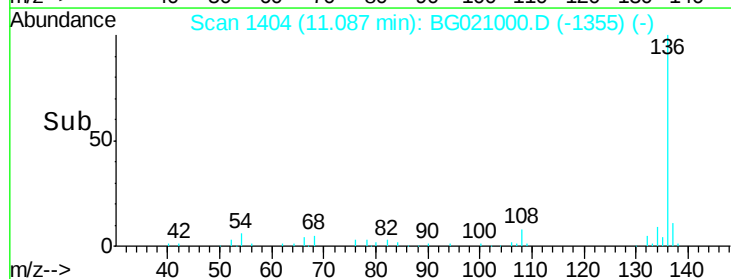
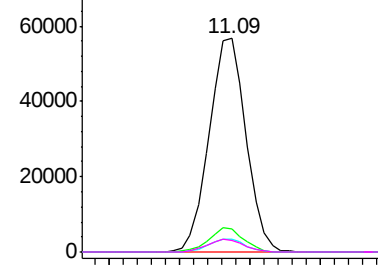
137 11.0 8.8 13.2

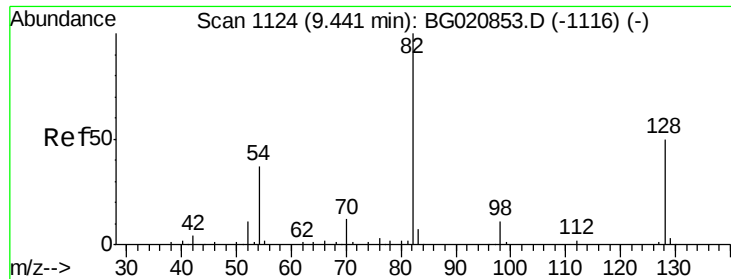
54 5.8 5.0 7.4

68 5.5 5.2 7.8



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

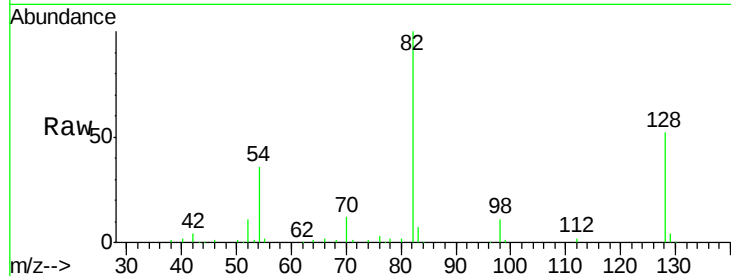




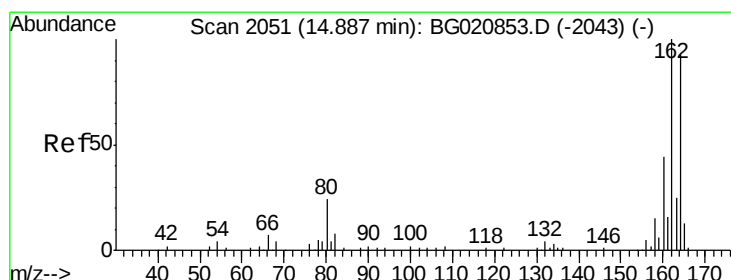
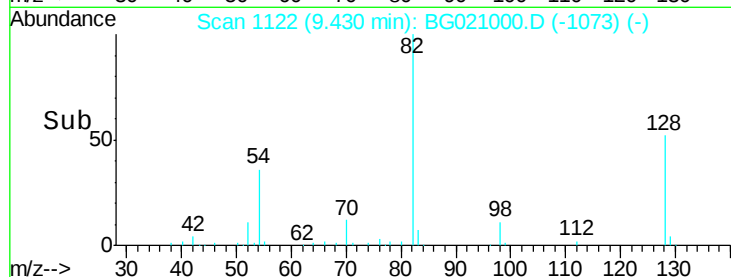
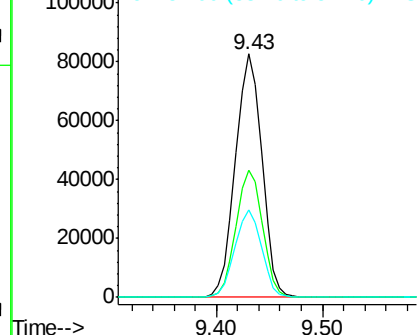
#23
 Nitrobenzene-d5
 Concen: 90.69 ng
 RT: 9.43 min Scan# 1122
 Delta R.T. -0.01 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Instrument :
 BNA_G
 ClientSampleId :
 40055(0-2)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	52.1	40.1	60.1
54	35.8	29.5	44.3

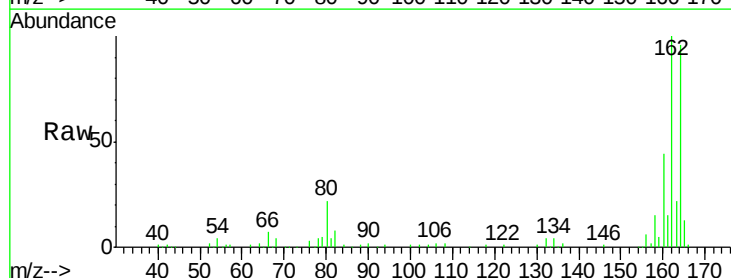


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

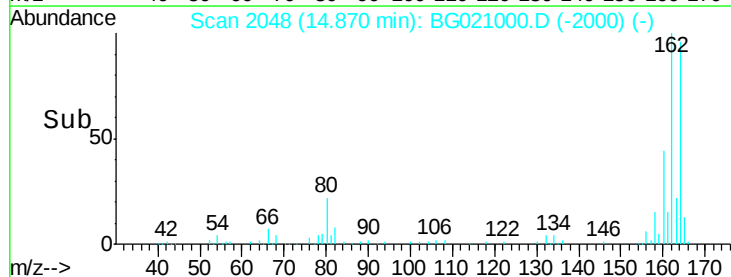
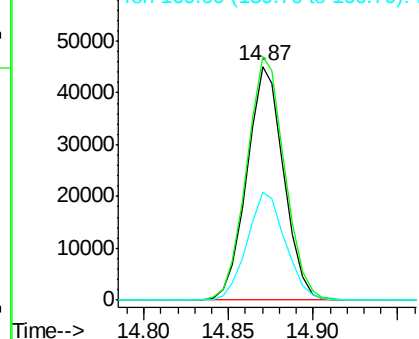


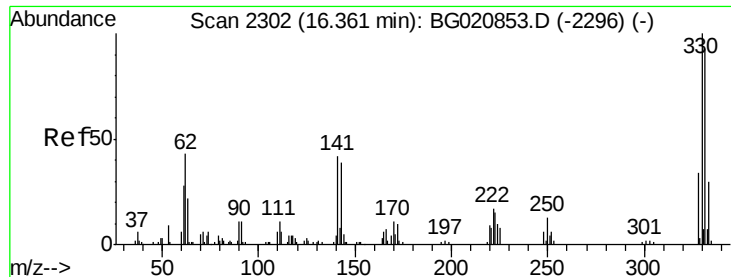
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.87 min Scan# 2048
 Delta R.T. -0.02 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	85.7	128.5
160	46.2	37.4	56.0



Abundance Ion 164.00 (163.70 to 164.70): BGC
 Ion 162.00 (161.70 to 162.70): BGC
 Ion 160.00 (159.70 to 160.70): BGC

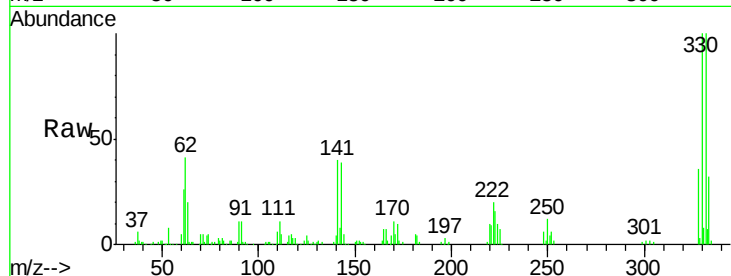




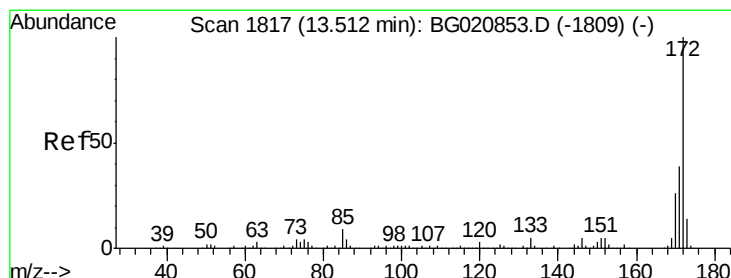
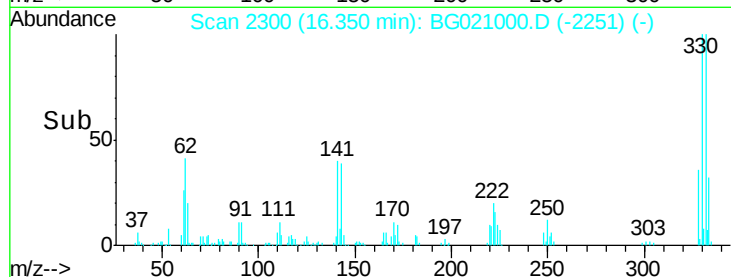
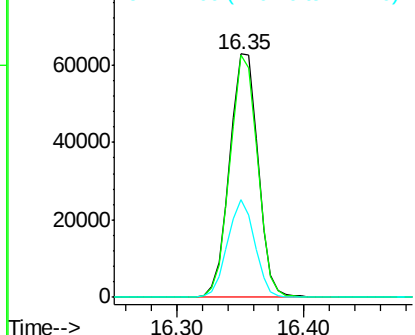
#41
 2,4,6-Tribromophenol
 Concen: 145.43 ng
 RT: 16.35 min Scan# 2300
 Delta R.T. -0.01 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Instrument :
 BNA_G
 ClientSampleId :
 40055(0-2)

Tgt Ion:330 Resp: 96973
 Ion Ratio Lower Upper
 330 100
 332 97.0 76.1 114.1
 141 38.5 32.0 48.0

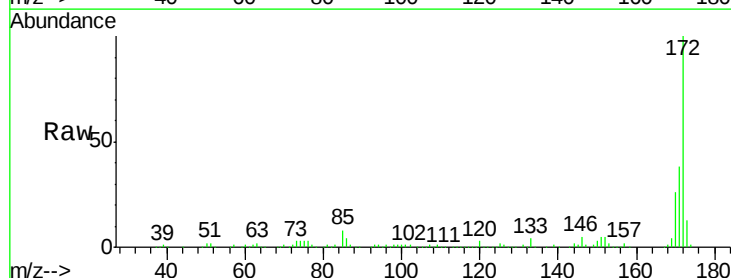


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

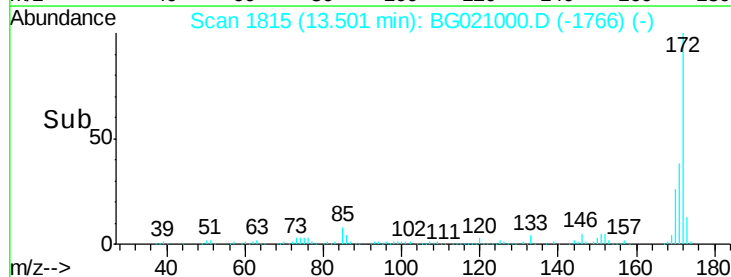
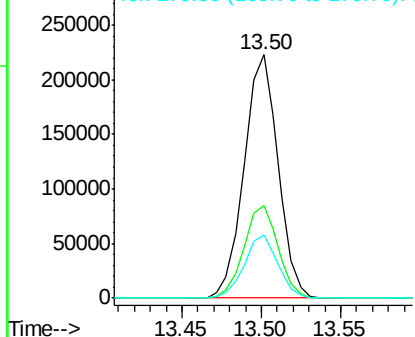


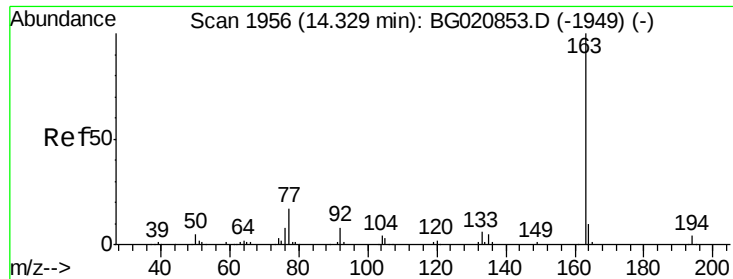
#44
 2-Fluorobiphenyl
 Concen: 68.66 ng
 RT: 13.50 min Scan# 1815
 Delta R.T. -0.01 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Tgt Ion:172 Resp: 331420
 Ion Ratio Lower Upper
 172 100
 171 38.3 31.2 46.8
 170 26.0 20.6 30.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 20.14 ng

RT: 14.31 min Scan# 1953

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

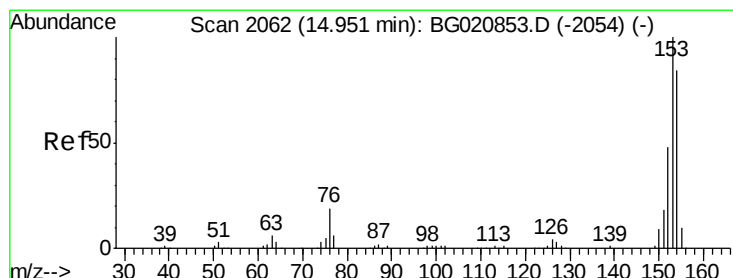
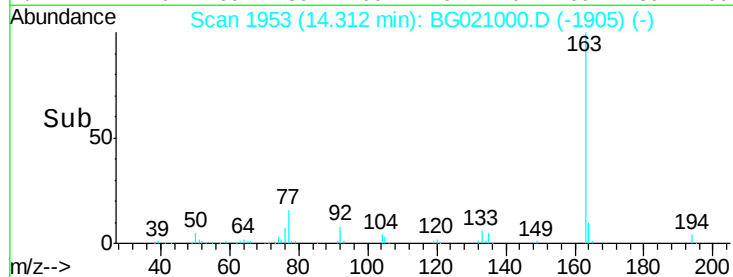
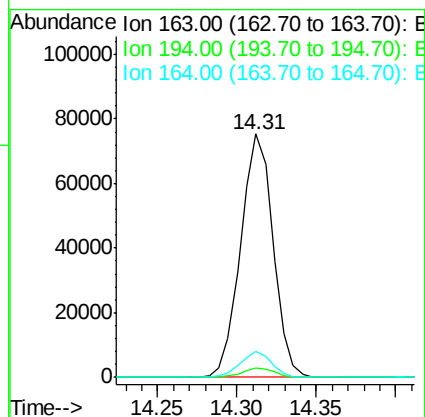
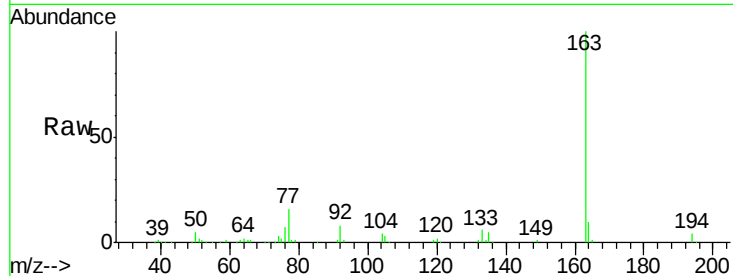
Instrument :

BNA_G

ClientSampleId :

40055(0-2)

Tgt Ion:	163	Resp:	106790
Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.5	8.3	12.5



#51

Acenaphthene

Concen: 3.55 ng

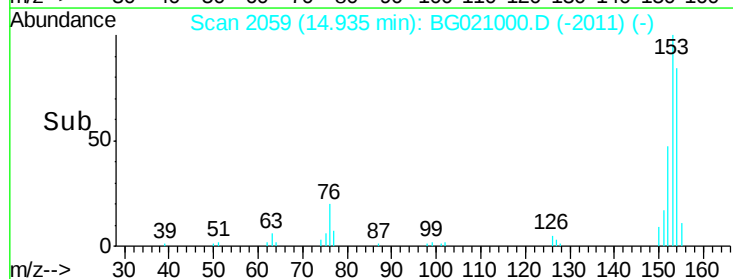
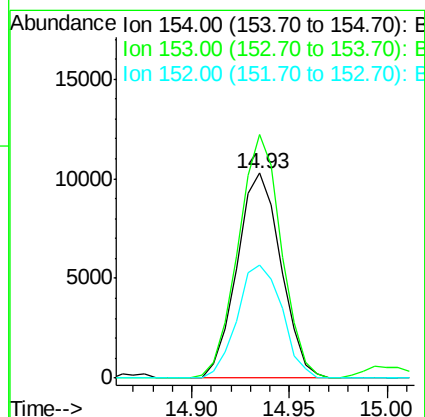
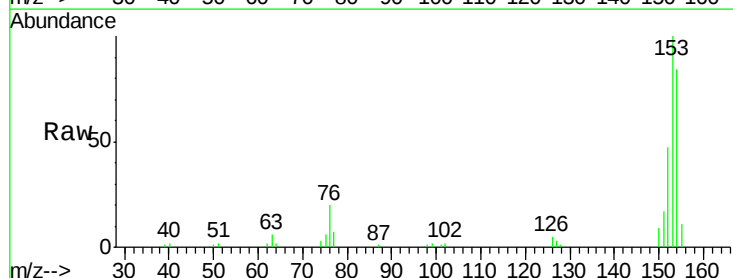
RT: 14.93 min Scan# 2059

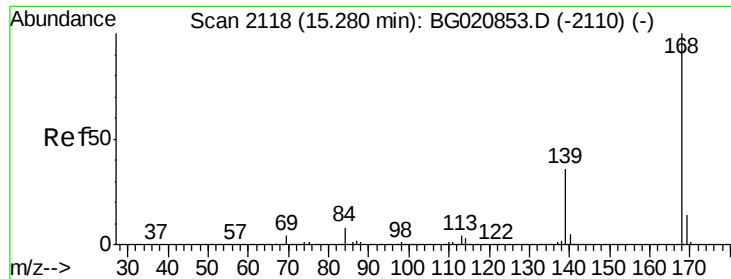
Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Tgt Ion:	154	Resp:	16035
Ion	Ratio	Lower	Upper
154	100		
153	119.0	95.4	143.0
152	55.5	46.1	69.1





#54

Dibenzenofuran

Concen: 2.29 ng

RT: 15.26 min Scan# 2115

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

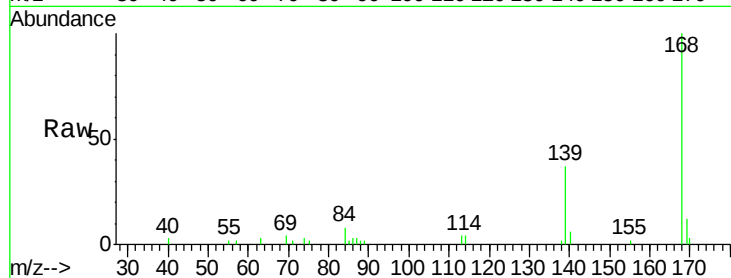
Tgt Ion:168 Resp: 13660

Ion Ratio Lower Upper

168 100

139 37.2 28.5 42.7

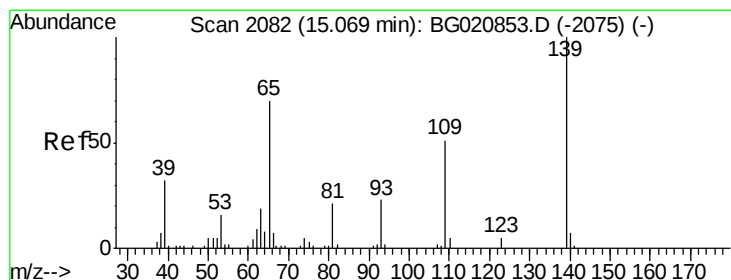
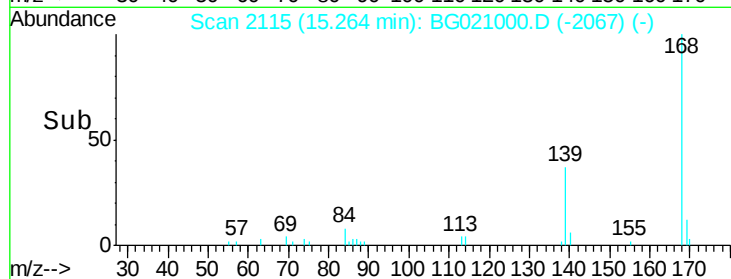
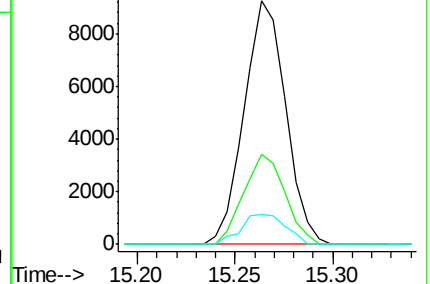
169 12.5 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 5.04 ng

RT: 15.26 min Scan# 2115

Delta R.T. 0.19 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

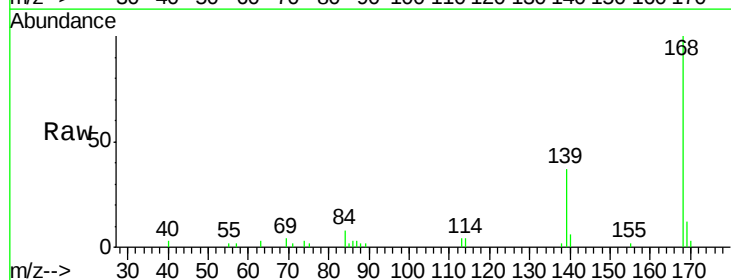
Tgt Ion:139 Resp: 5030

Ion Ratio Lower Upper

139 100

109 0.0 31.0 71.0#

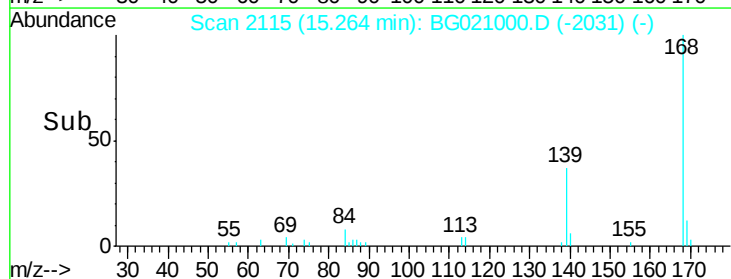
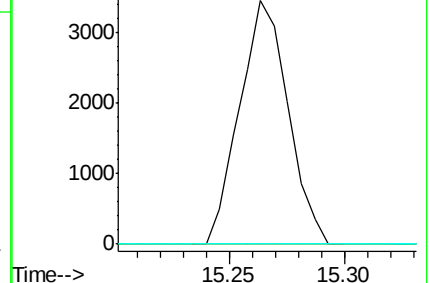
65 0.0 49.6 89.6#

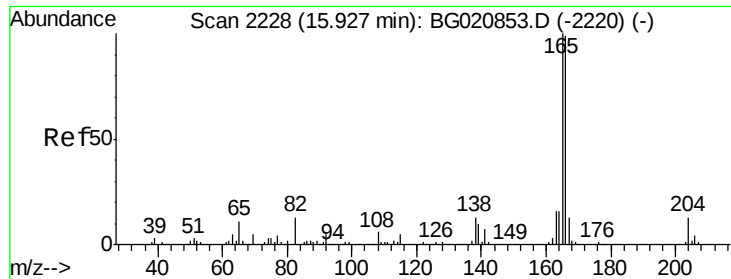


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGO





#57

Fluorene

Concen: 3.54 ng

RT: 15.91 min Scan# 2225

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

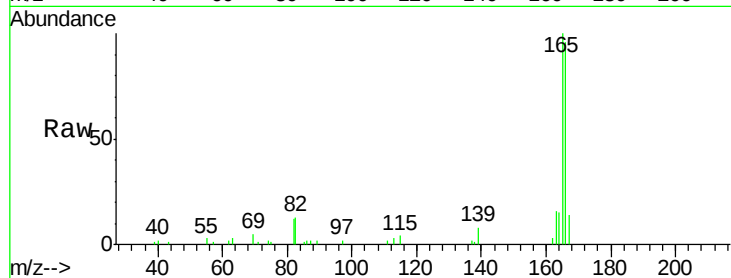
Tgt Ion:166 Resp: 19450

Ion Ratio Lower Upper

166 100

165 104.1 81.0 121.4

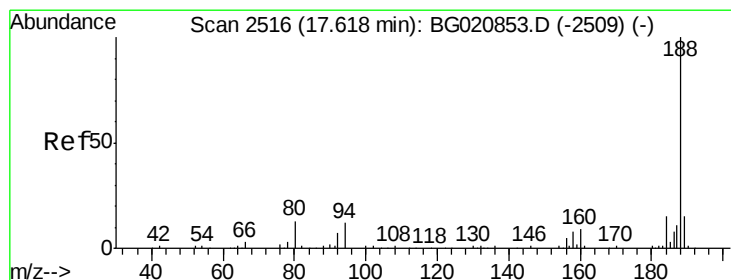
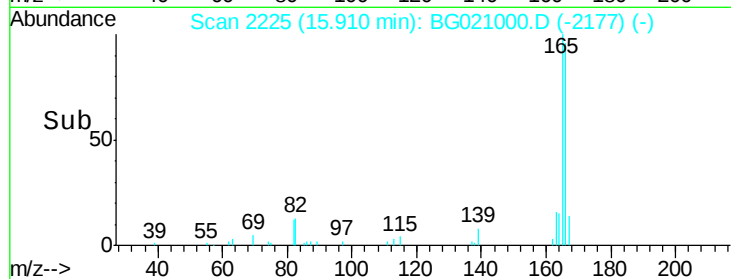
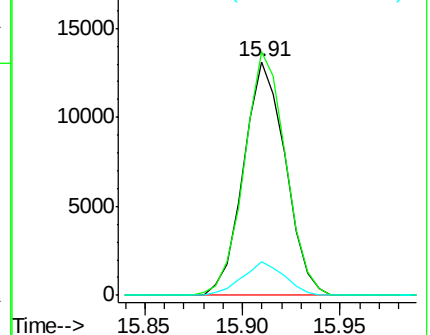
167 14.6 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.61 min Scan# 2514

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

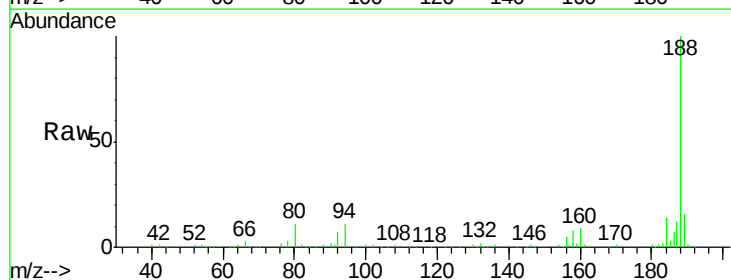
Tgt Ion:188 Resp: 136706

Ion Ratio Lower Upper

188 100

94 11.5 9.4 14.0

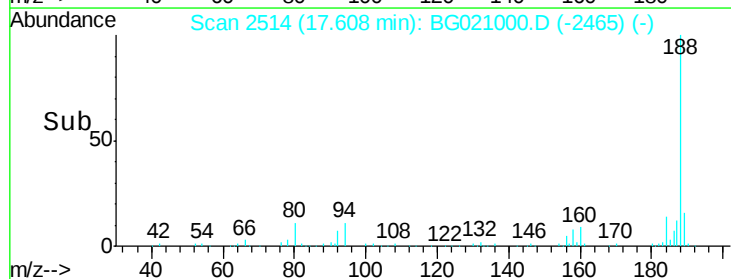
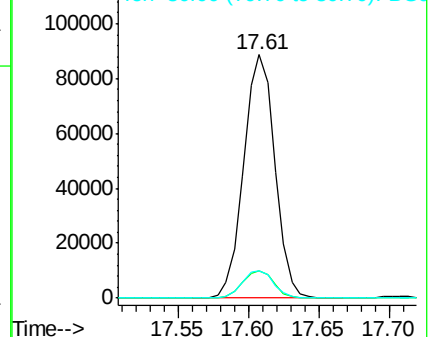
80 11.3 10.2 15.4

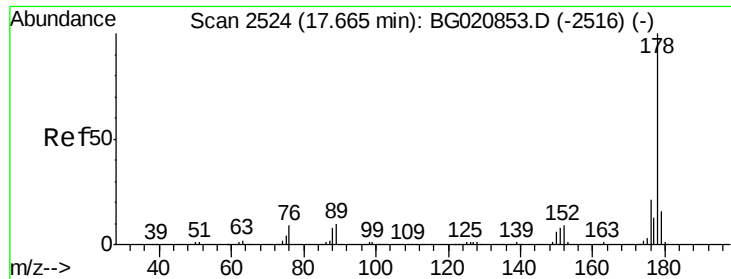


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 26.22 ng

RT: 17.65 min Scan# 2521

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

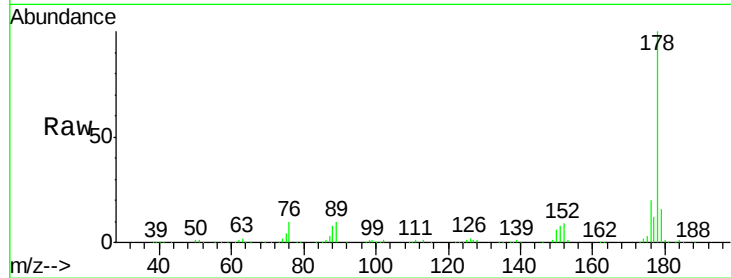
Tgt Ion:178 Resp: 204069

Ion Ratio Lower Upper

178 100

176 20.4 16.8 25.2

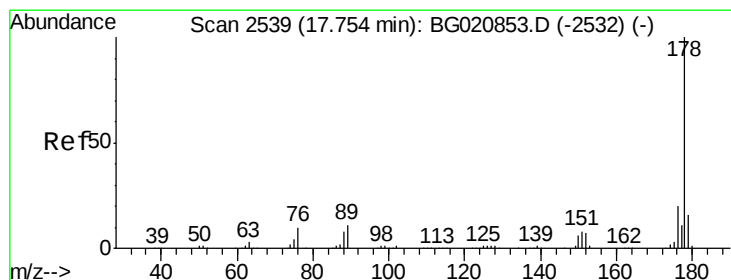
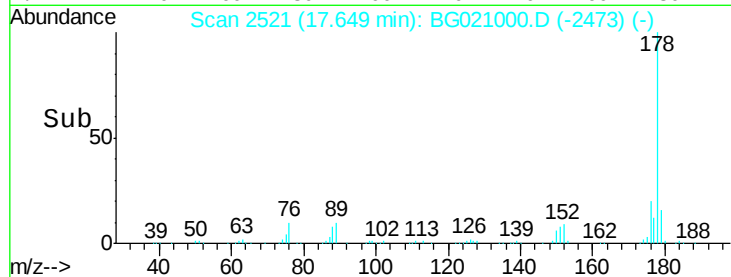
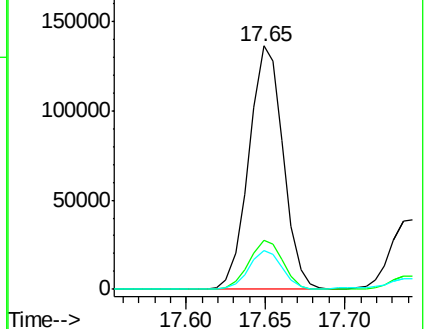
179 16.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 7.36 ng

RT: 17.74 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

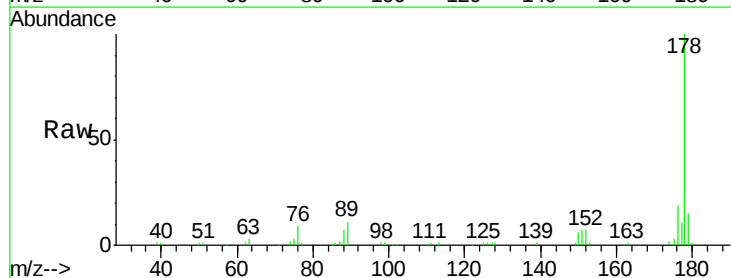
Tgt Ion:178 Resp: 58166

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

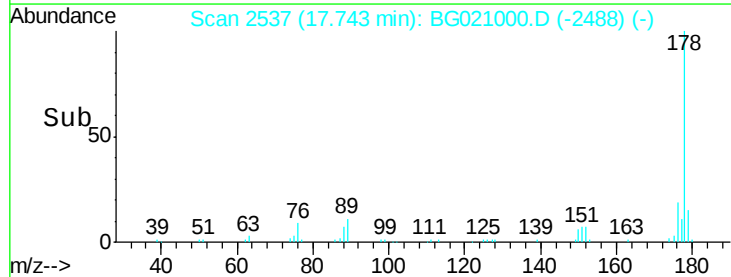
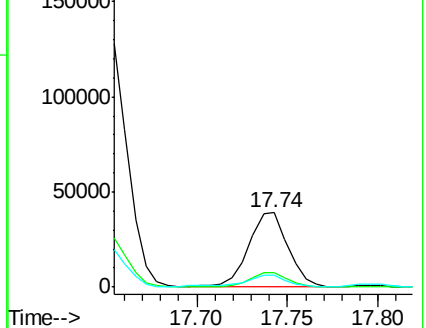
179 15.5 12.7 19.1

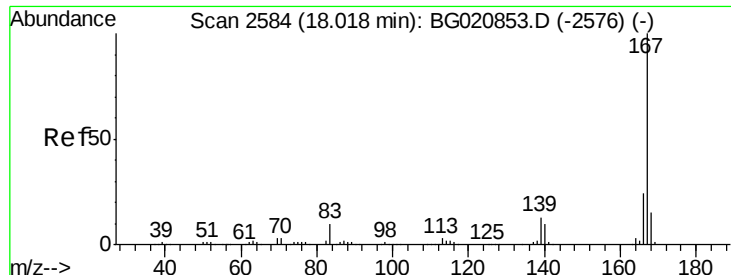


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.35 ng

RT: 18.01 min Scan# 2582

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

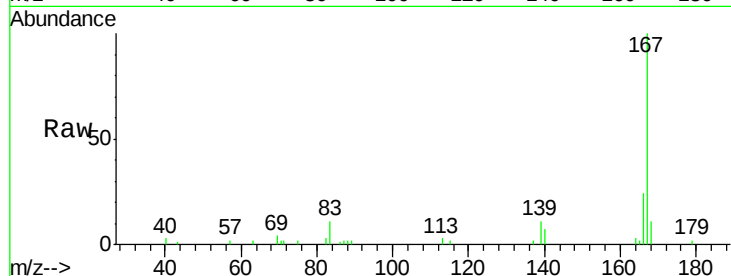
Tgt Ion:167 Resp: 16624

Ion Ratio Lower Upper

167 100

166 24.3 19.3 28.9

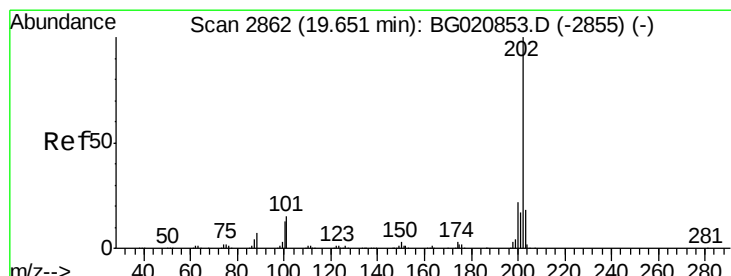
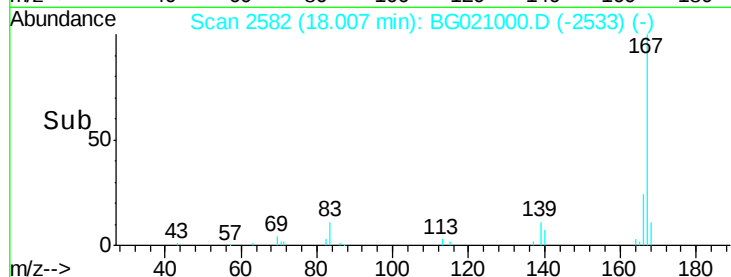
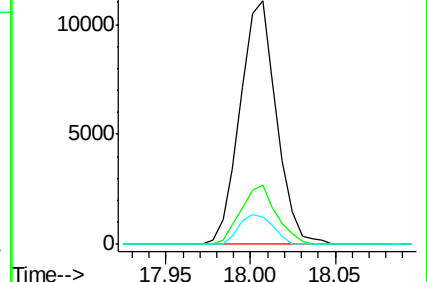
139 11.5 10.2 15.4



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



#74

Fluoranthene

Concen: 31.18 ng

RT: 19.64 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

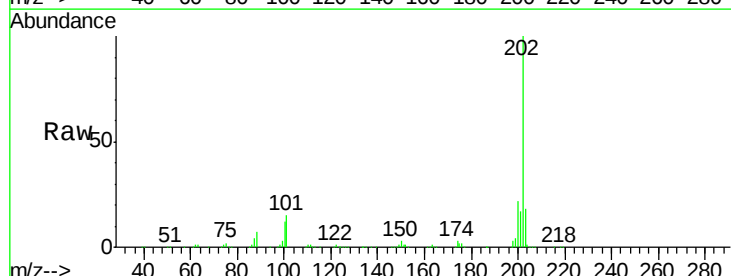
Tgt Ion:202 Resp: 262142

Ion Ratio Lower Upper

202 100

101 15.2 0.0 35.3

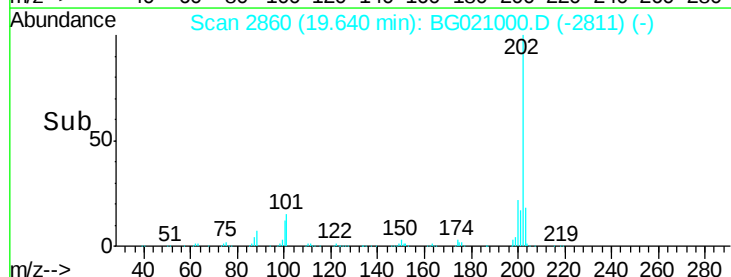
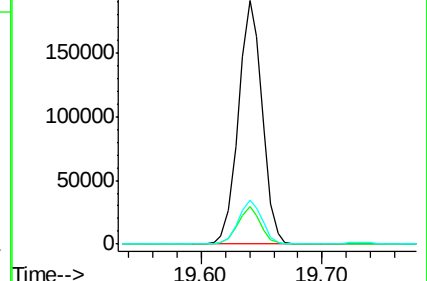
203 18.2 0.0 37.8

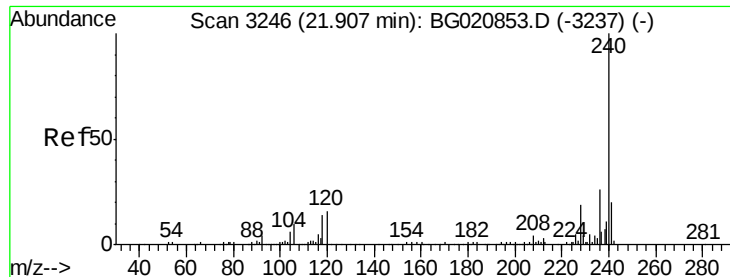


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

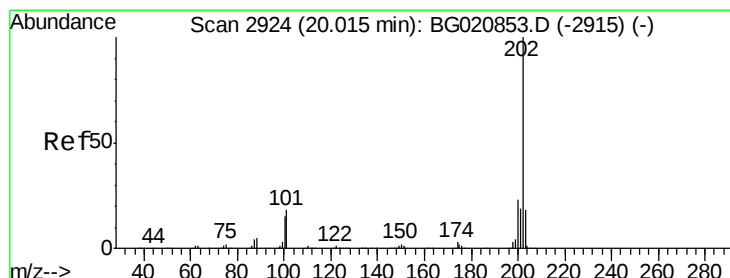
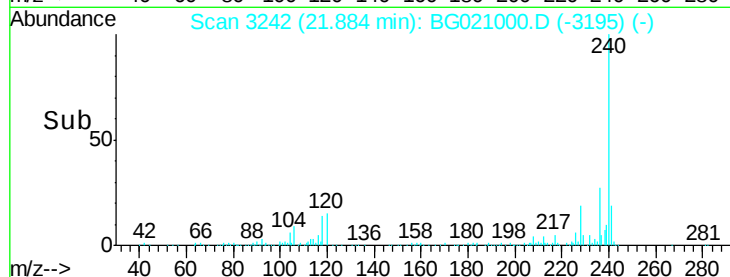
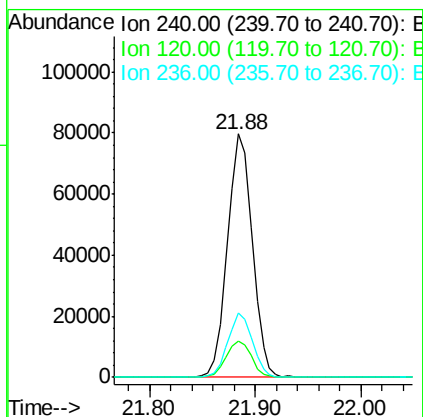
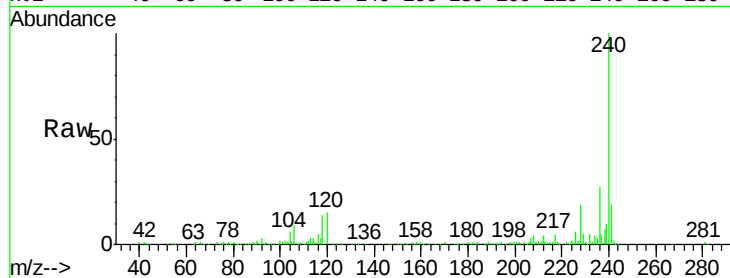




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.88 min Scan# 3242
Delta R.T. -0.02 min
Lab File: BG021000.D
Acq: 20 Feb 2016 9:21

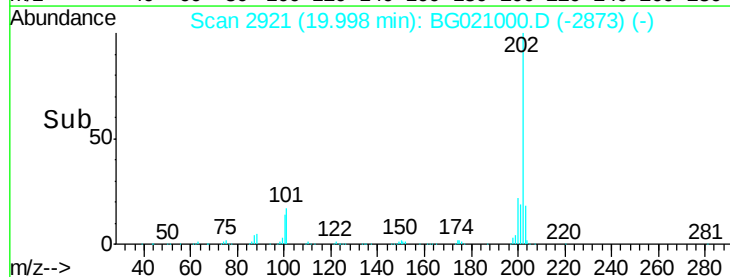
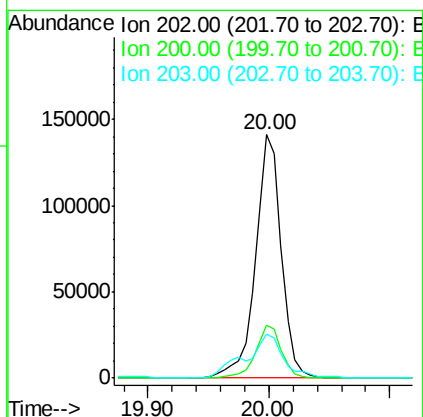
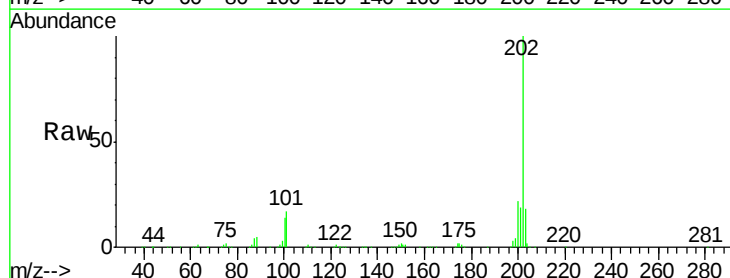
Instrument :
BNA_G
ClientSampleId :
40055(0-2)

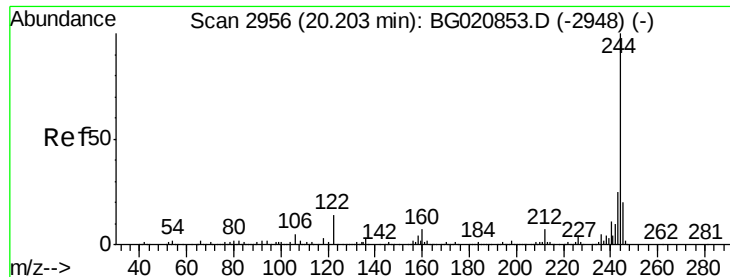
Tgt Ion:240 Resp: 129159
Ion Ratio Lower Upper
240 100
120 15.0 13.0 19.4
236 26.7 21.0 31.4



#77
Pyrene
Concen: 24.56 ng
RT: 20.00 min Scan# 2921
Delta R.T. -0.02 min
Lab File: BG021000.D
Acq: 20 Feb 2016 9:21

Tgt Ion:202 Resp: 209269
Ion Ratio Lower Upper
202 100
200 21.9 18.5 27.7
203 18.0 14.3 21.5





#78

Terphenyl-d14

Concen: 73.43 ng

RT: 20.19 min Scan# 2953

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

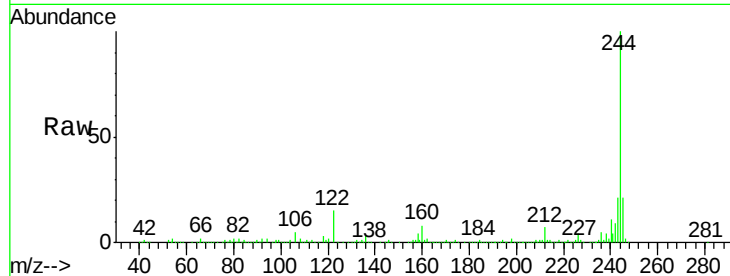
Instrument :

BNA_G

ClientSampleId :

40055(0-2)

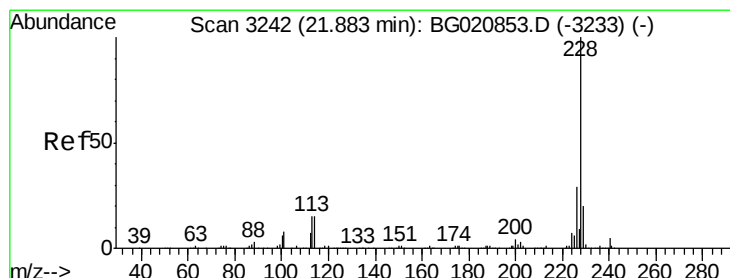
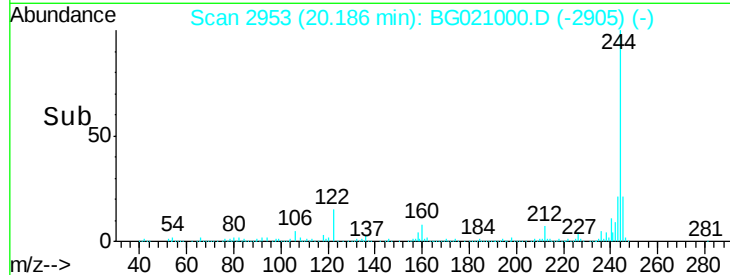
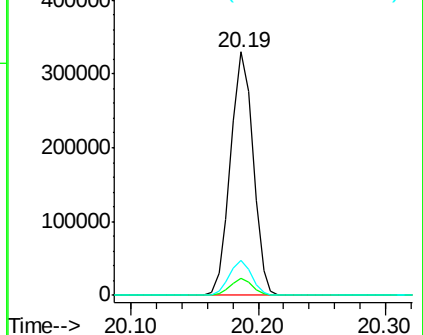
Tgt Ion:	244	Resp:	406545
Ion Ratio	Lower	Upper	
244	100		
212	7.2	5.5	8.3
122	14.6	11.4	17.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 14.60 ng

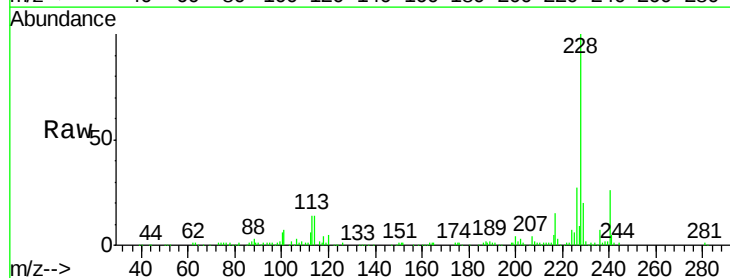
RT: 21.87 min Scan# 3239

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

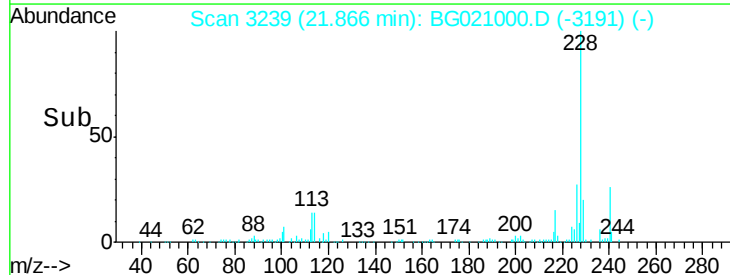
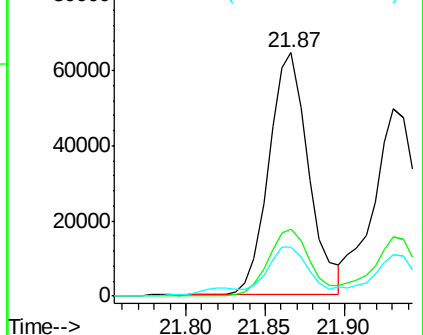
Tgt Ion:	228	Resp:	112593
Ion Ratio	Lower	Upper	
228	100		
226	27.3	23.1	34.7
229	20.3	16.2	24.2

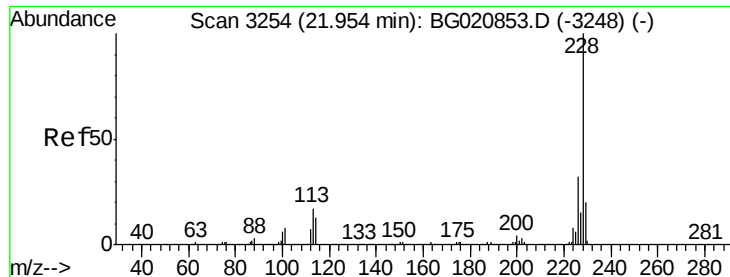


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 13.04 ng

RT: 21.93 min Scan# 3250

Delta R.T. -0.02 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampleId :

40055(0-2)

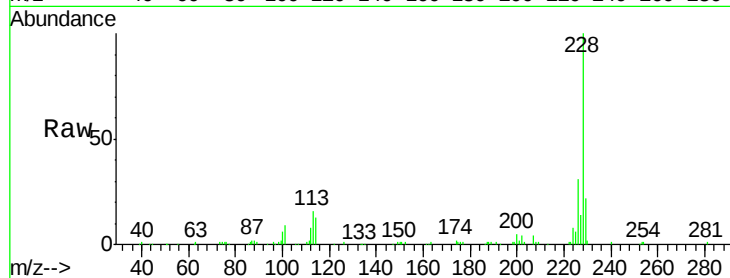
Tgt Ion:228 Resp: 94571

Ion Ratio Lower Upper

228 100

226 31.3 25.3 37.9

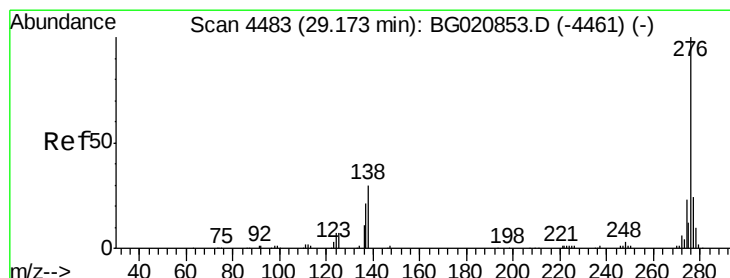
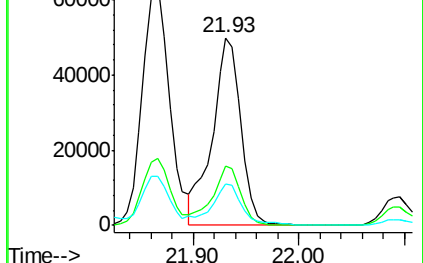
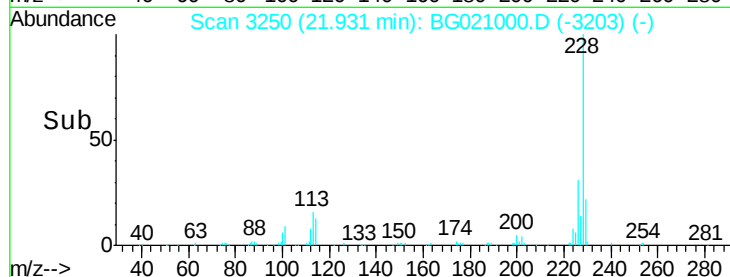
229 22.3 16.2 24.2



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.63 ng

RT: 29.10 min Scan# 4470

Delta R.T. -0.08 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

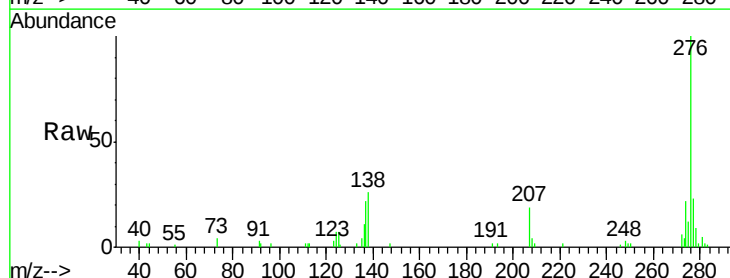
Tgt Ion:276 Resp: 55285

Ion Ratio Lower Upper

276 100

138 31.3 20.1 30.1#

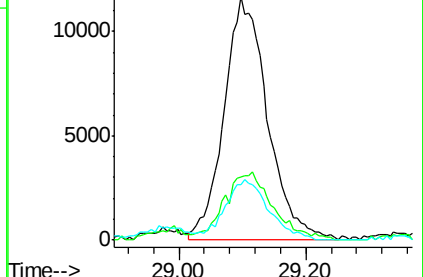
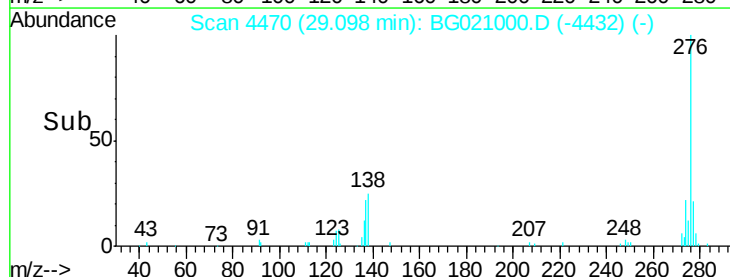
277 25.2 20.5 30.7

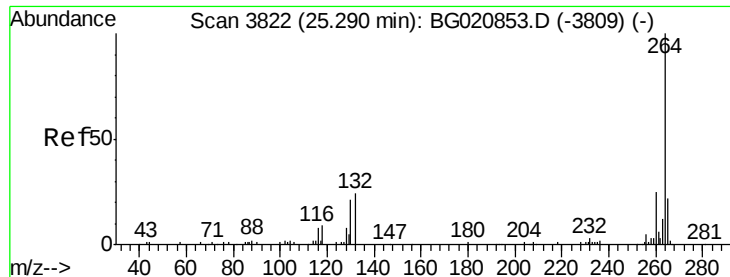


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 25.26 min Scan# 3816

Delta R.T. -0.03 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Instrument :

BNA_G

ClientSampled :

40055(0-2)

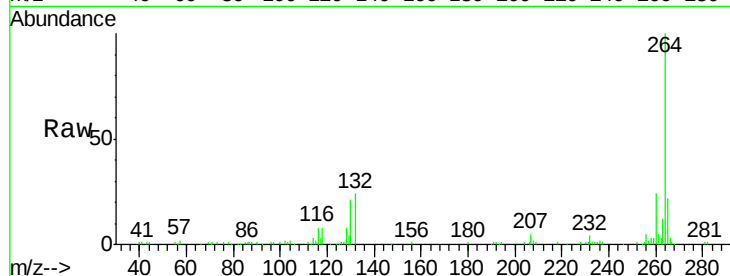
Tgt Ion:264 Resp: 122184

Ion Ratio Lower Upper

264 100

260 24.1 19.9 29.9

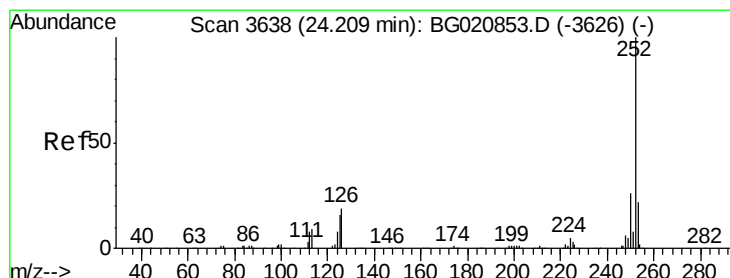
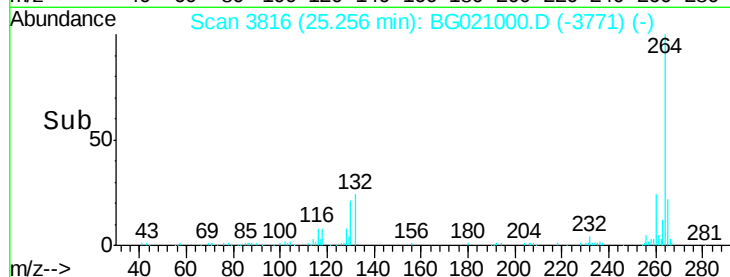
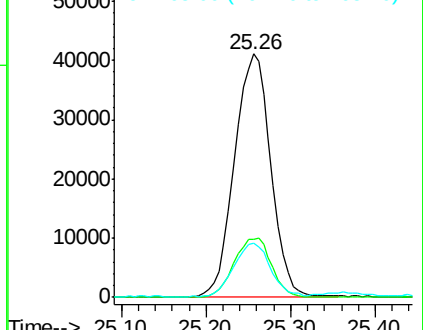
265 22.1 18.0 27.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 16.30 ng

RT: 24.18 min Scan# 3633

Delta R.T. -0.03 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

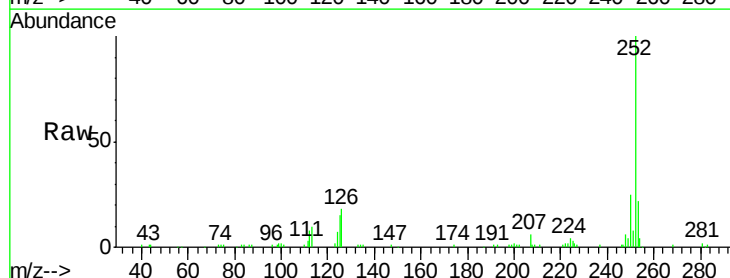
Tgt Ion:252 Resp: 121876

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

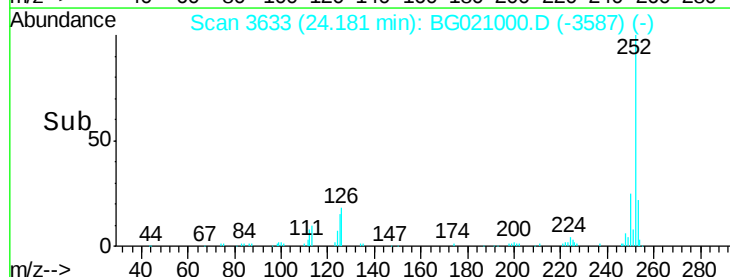
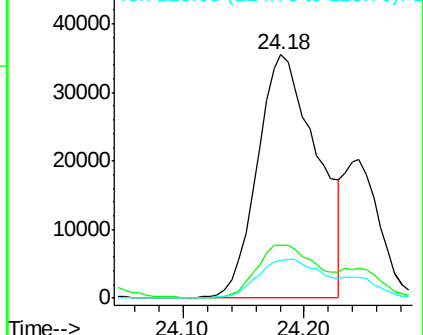
125 15.3 12.5 18.7

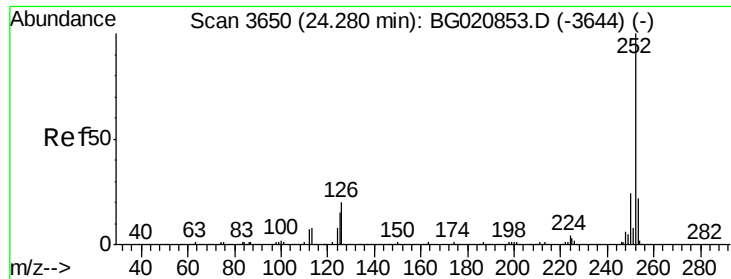


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 16.63 ng

RT: 24.18 min Scan# 3633

Delta R.T. -0.10 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

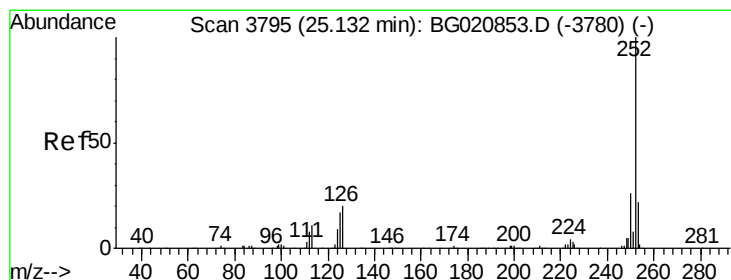
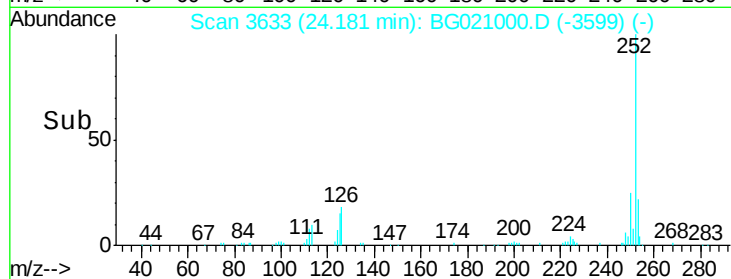
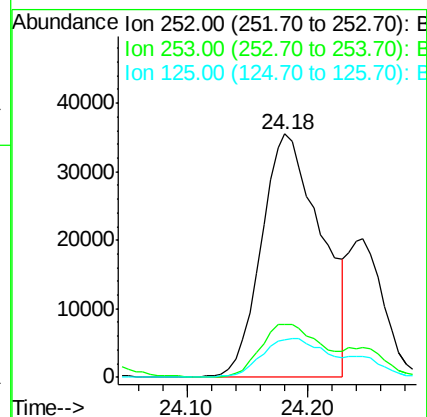
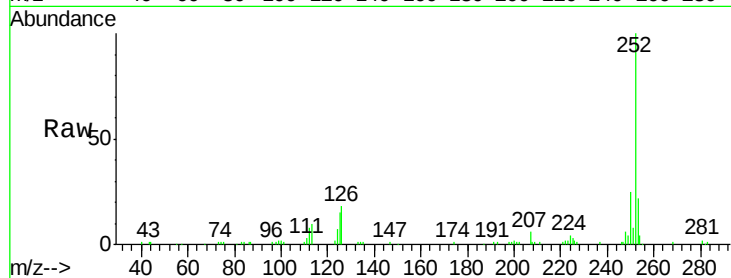
Instrument :

BNA_G

ClientSampleId :

40055(0-2)

Tgt Ion:	252	Resp:	121876
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.7	26.5
125	15.3	12.2	18.4



#89

Benzo(a)pyrene

Concen: 12.38 ng

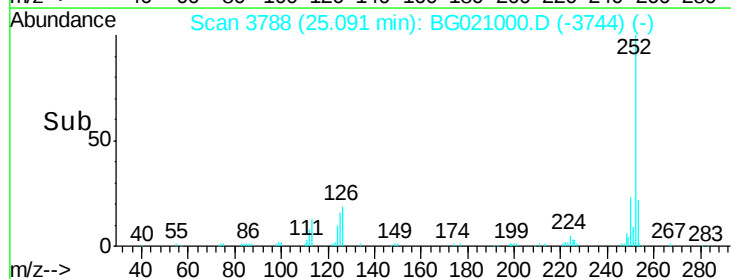
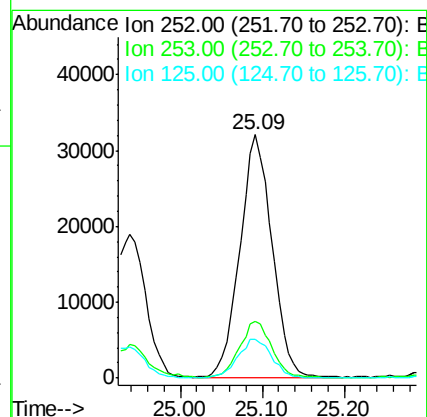
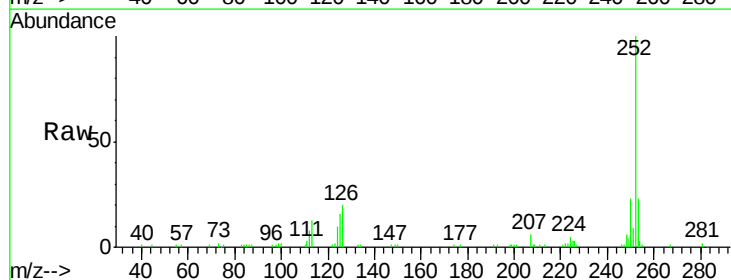
RT: 25.09 min Scan# 3788

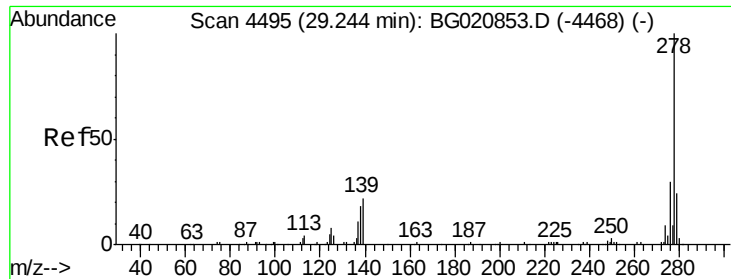
Delta R.T. -0.04 min

Lab File: BG021000.D

Acq: 20 Feb 2016 9:21

Tgt Ion:	252	Resp:	88172
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.4	26.2
125	15.8	13.6	20.4

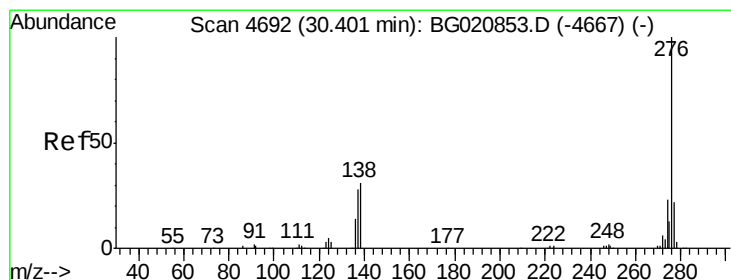
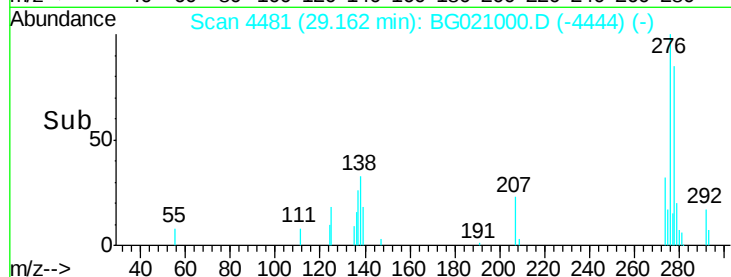
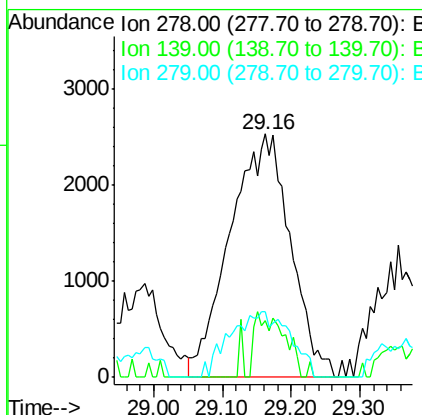
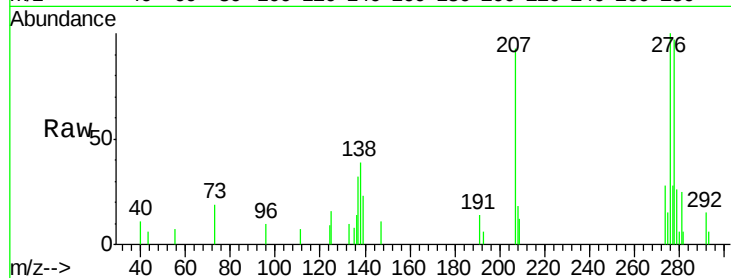




#90
 Dibenzo(a,h)anthracene
 Concen: 2.23 ng
 RT: 29.16 min Scan# 4481
 Delta R.T. -0.08 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Instrument :
 BNA_G
 ClientSampleId :
 40055(0-2)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.3	17.3	25.9
279	27.0	19.1	28.7



#91
 Benzo(g,h,i)perylene
 Concen: 6.88 ng
 RT: 30.31 min Scan# 4677
 Delta R.T. -0.09 min
 Lab File: BG021000.D
 Acq: 20 Feb 2016 9:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.7	17.6	26.4
138	33.0	25.2	37.8

