

Data Path : U:\HPCHEM1\BNA G\DATA\BG022416\
 Data File : BG021062.D
 Acq On : 24 Feb 2016 21:51
 Operator : UM/SJ
 Sample : H1521-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 24 23:59:28 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 24 00:35:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	5255	20.00	ng	0.00
21) Naphthalene-d8	11.02	136	27419	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	13443	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	23267	20.00	ng	0.00
75) Chrysene-d12	21.82	240	17614	20.00	ng	0.00
86) Perylene-d12	25.15	264	16569	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.78	112	41618	138.85	ng	0.00
7) Phenol-d6	7.41	99	64857	140.50	ng	0.00
23) Nitrobenzene-d5	9.39	82	43515	93.18	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	19900	123.57	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	85239	88.27	ng	0.00
78) Terphenyl-d14	20.14	244	61450	45.27	ng	0.00

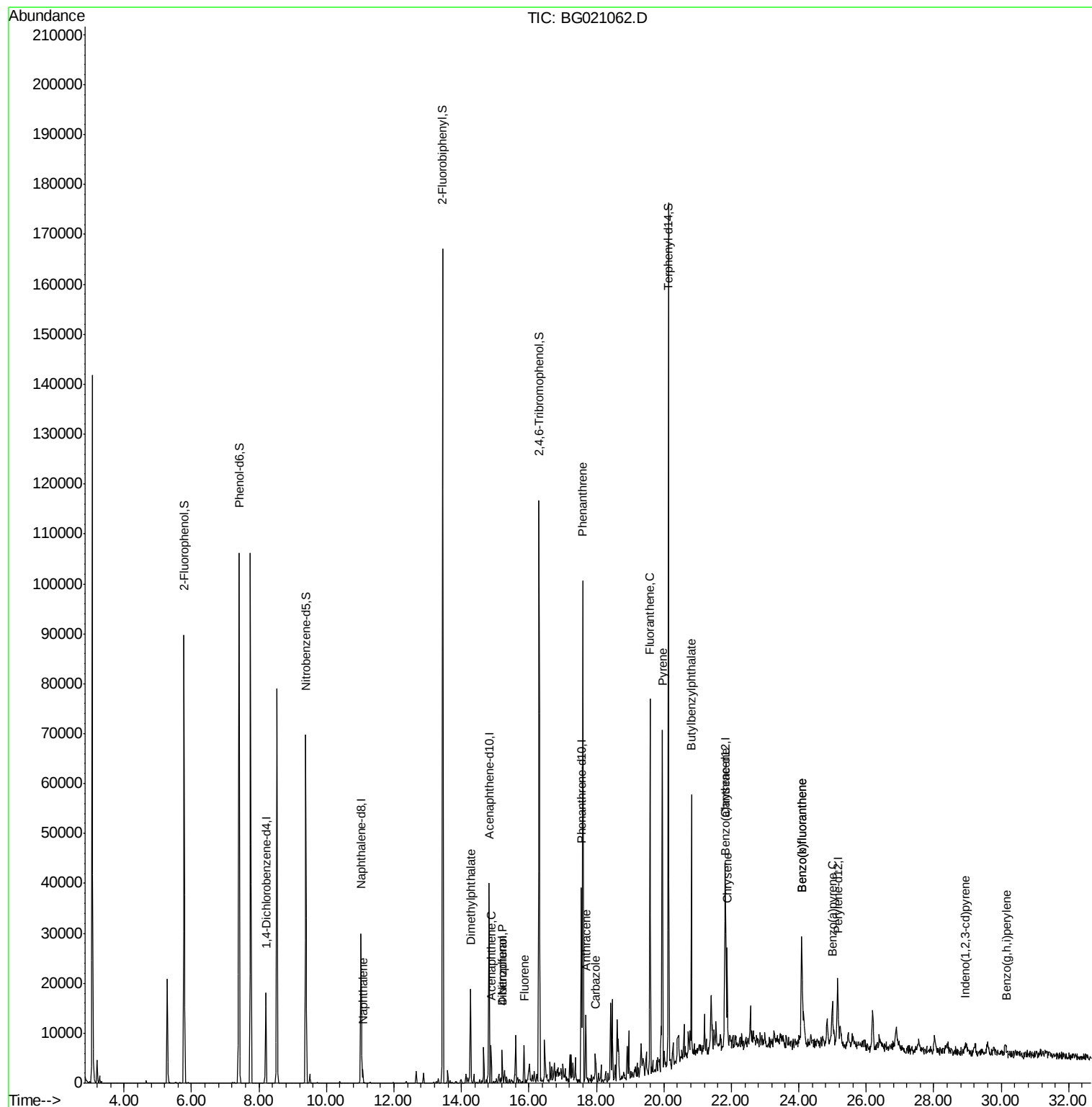
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	11.08	128	3233	2.26	ng	# 93
49) Dimethylphthalate	14.27	163	12603	11.50	ng	99
51) Acenaphthene	14.88	154	3029	3.53	ng	94
54) Dibenzofuran	15.22	168	3957	3.25	ng	92
55) 4-Nitrophenol	15.21	139	1660	7.47	ng	# 7
57) Fluorene	15.86	166	3963	3.44	ng	96
70) Phenanthrene	17.60	178	58556	44.49	ng	97
71) Anthracene	17.69	178	9189	7.01	ng	99
72) Carbazole	17.97	167	4260	3.60	ng	# 92
74) Fluoranthene	19.59	202	43120	32.58	ng	96
77) Pyrene	19.96	202	40417	20.08	ng	98
79) Butylbenzylphthalate	20.81	149	14838	20.91	ng	96
80) Benzo(a)anthracene	21.81	228	13868	13.13	ng	97
82) Chrysene	21.87	228	13562	13.76	ng	98
85) Indeno(1,2,3-cd)pyrene	28.94	276	4203	4.74	ng	# 100
87) Benzo(b)fluoranthene	24.09	252	12850	11.76	ng	# 88
88) Benzo(k)fluoranthene	24.09	252	12850	12.47	ng	# 87
89) Benzo(a)pyrene	25.00	252	9513	9.72	ng	93
91) Benzo(a,h,i)perylene	30.15	276	4128	4.69	ng	# 57

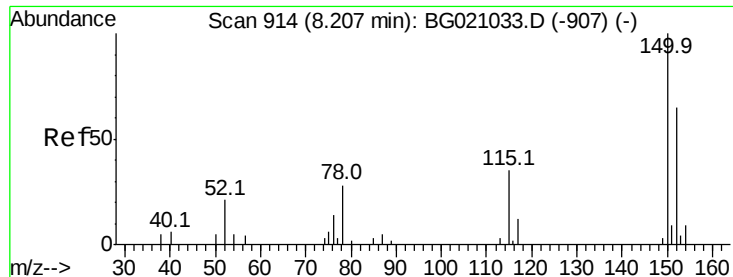
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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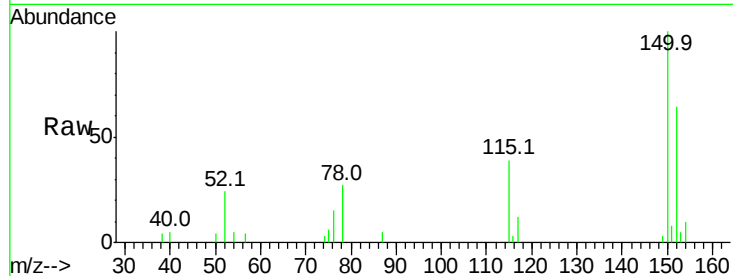


#1

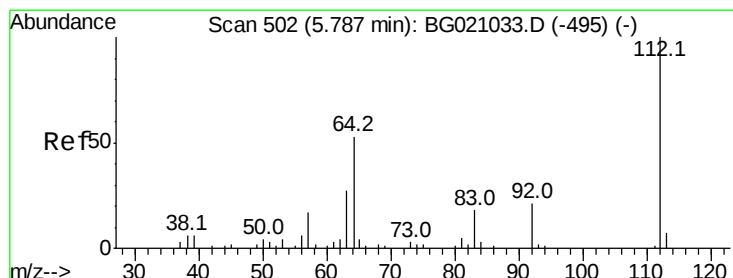
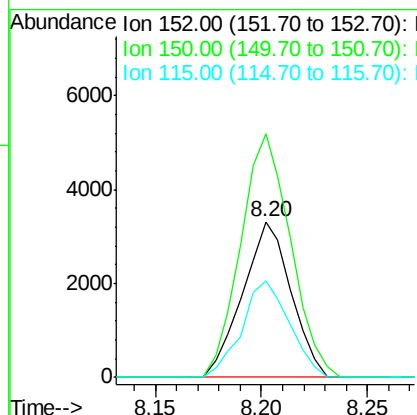
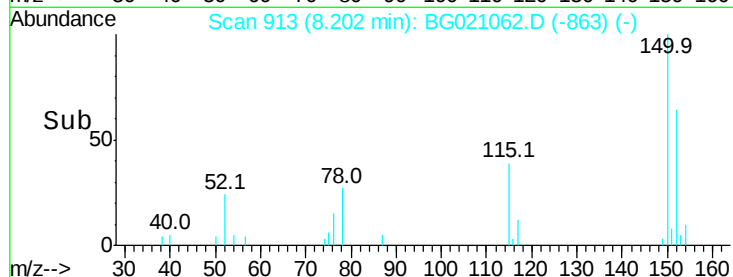
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.20 min Scan# 913
Delta R.T. -0.01 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 5255
Ion Ratio Lower Upper
152 100
150 156.4 123.4 185.2
115 61.6 43.3 64.9



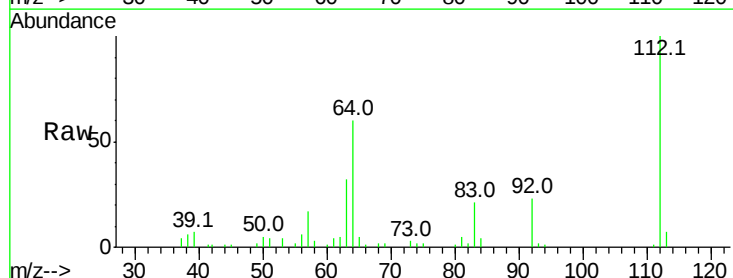
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



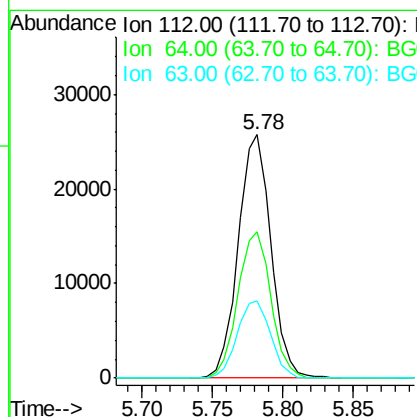
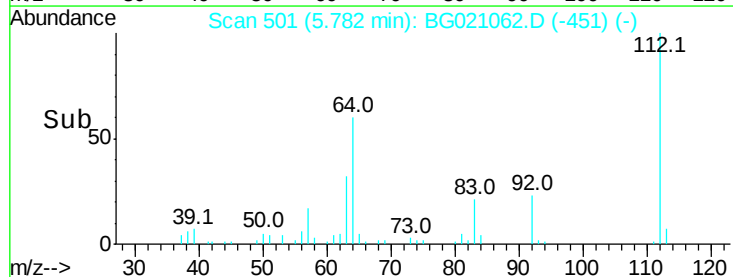
#5

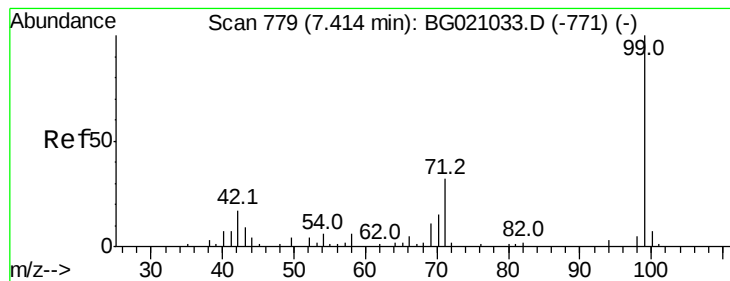
2-Fluorophenol
Concen: 138.85 ng
RT: 5.78 min Scan# 501
Delta R.T. -0.01 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Tgt Ion:112 Resp: 41618
Ion Ratio Lower Upper
112 100
64 60.2 42.6 63.8
63 31.8 21.7 32.5



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: 140.50 ng

RT: 7.41 min Scan# 778

Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

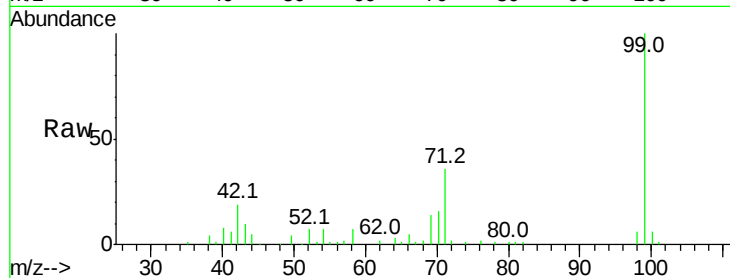
Instrument :

BNA_G

ClientSampled :

Tot Ion: 99 Resp: 64857

Ion	Ratio	Lower	Upper
99	100		
42	19.2	13.2	19.8
71	35.5	25.2	37.8

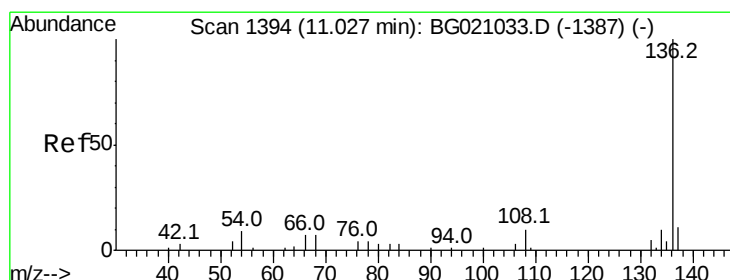
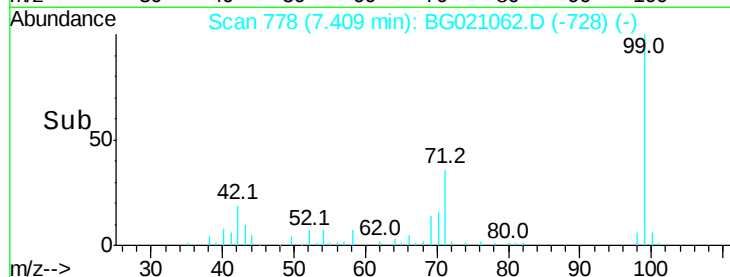
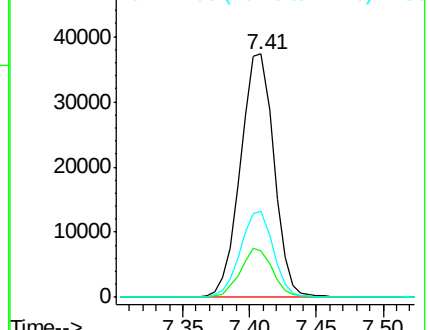


Abundance

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: 11.02 min Scan# 1393

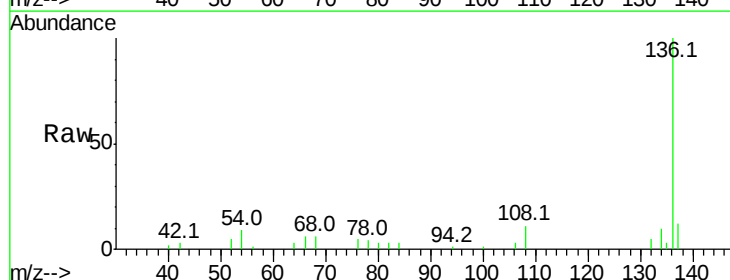
Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Tgt Ion: 136 Resp: 27419

Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.8	13.2
54	8.9	6.9	10.3
68	5.6	5.8	8.6#



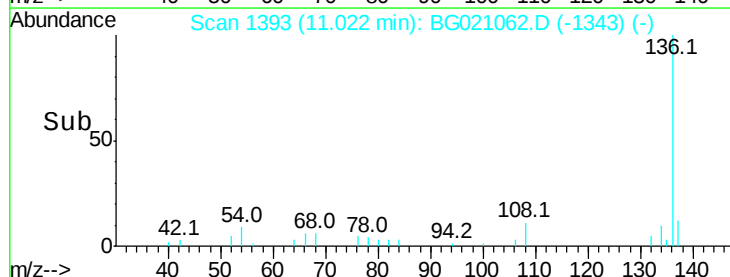
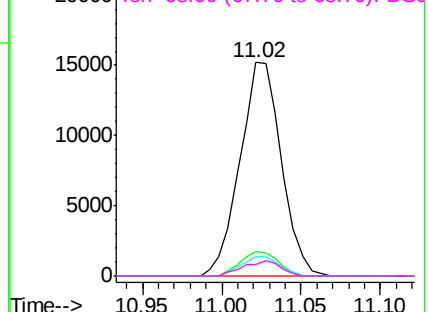
Abundance

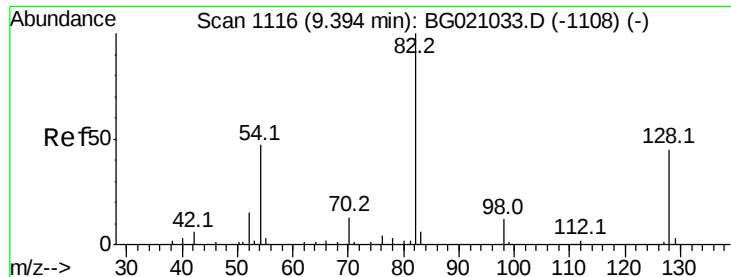
Ion 136.00 (135.70 to 136.70): BGC

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

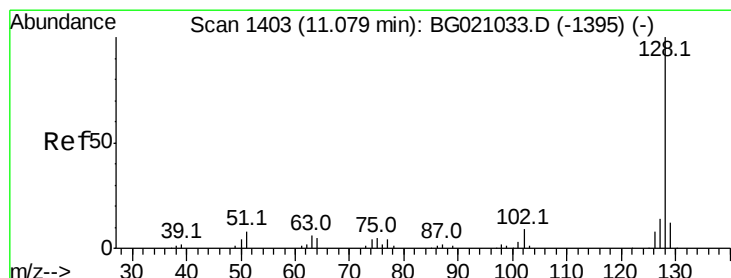
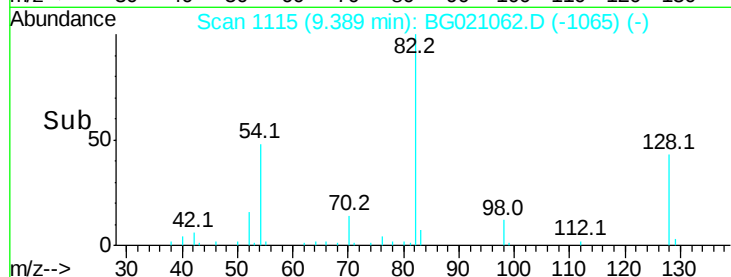
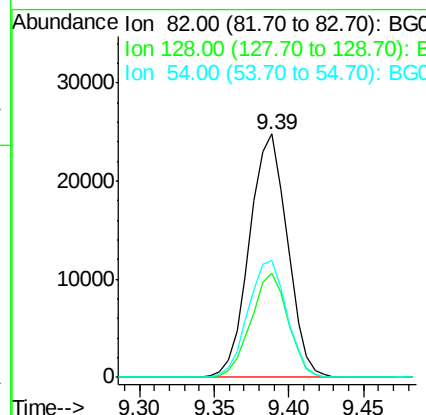
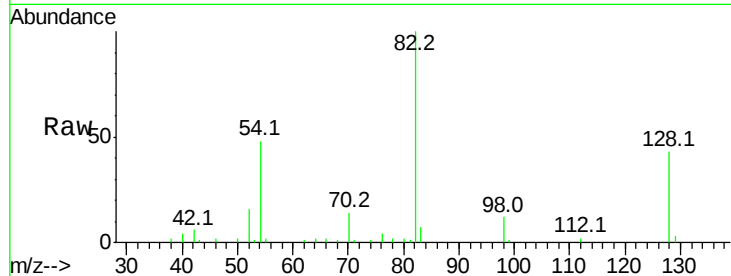




#23
Nitrobenzene-d5
Concen: 93.18 ng
RT: 9.39 min Scan# 1115
Delta R.T. -0.01 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

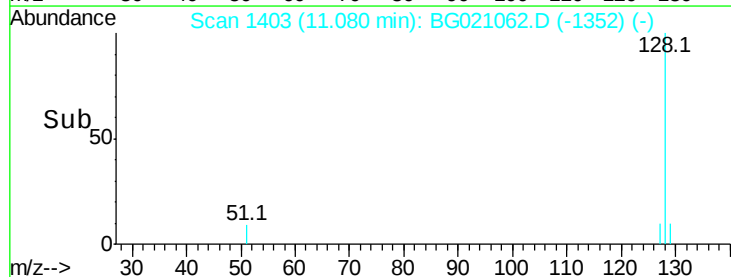
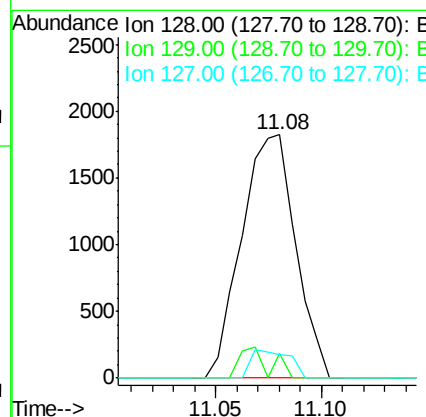
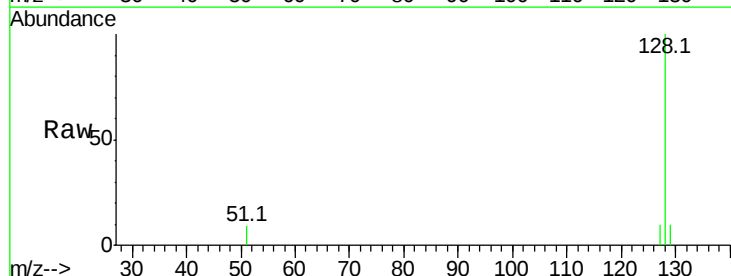
Instrument :
BNA_G
ClientSampleId :

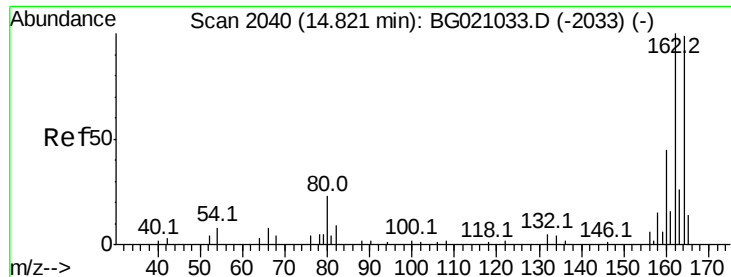
Tot Ion	82	Resp	43515
Ion Ratio	100	Lower	Upper
128	42.7	36.3	54.5
54	48.1	37.6	56.4



#31
Naphthalene
Concen: 2.26 ng
RT: 11.08 min Scan# 1403
Delta R.T. 0.00 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Tgt Ion	128	Resp	3233
Ion Ratio	100	Lower	Upper
129	10.0	9.4	14.2
127	9.5	10.8	16.2#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.82 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Instrument :

BNA_G

ClientSampleId :

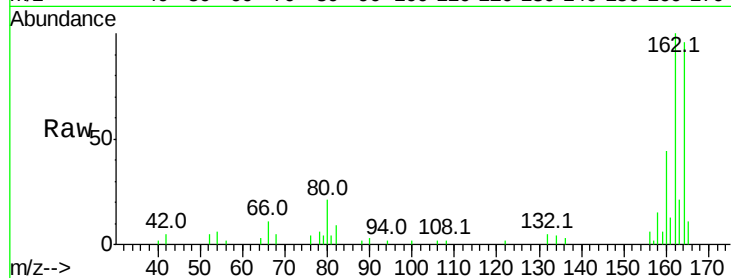
Tot Ion:164 Resp: 13443

Ion Ratio Lower Upper

164 100

162 104.5 80.6 120.8

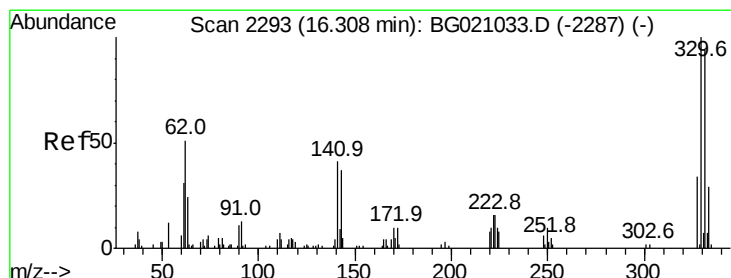
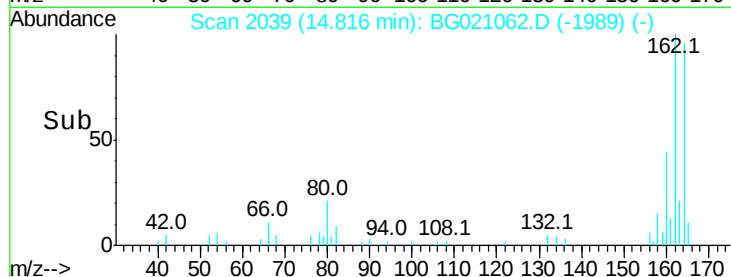
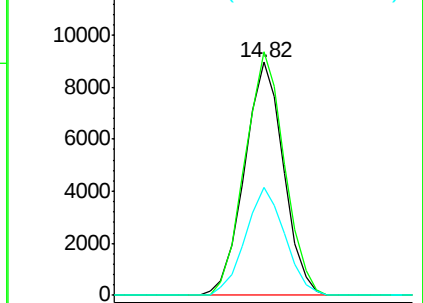
160 46.5 36.5 54.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 123.57 ng

RT: 16.31 min Scan# 2293

Delta R.T. 0.00 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

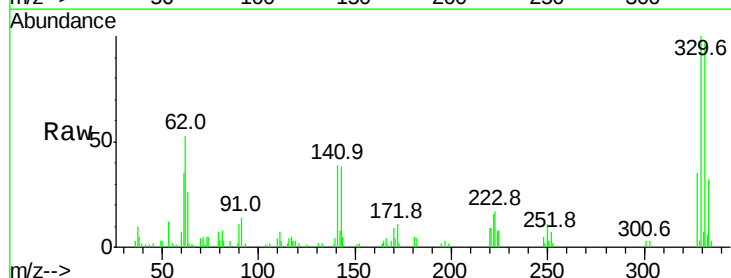
Tgt Ion:330 Resp: 19900

Ion Ratio Lower Upper

330 100

332 97.1 77.4 116.0

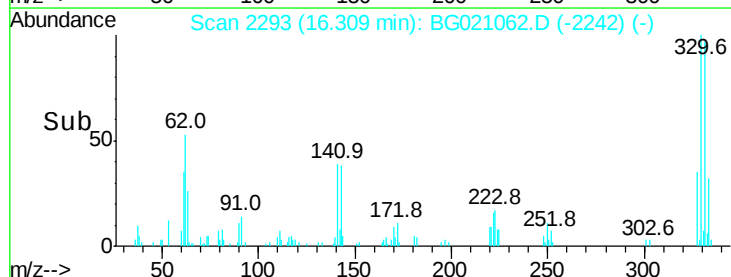
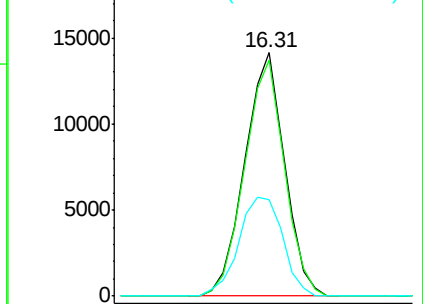
141 44.9 35.3 52.9

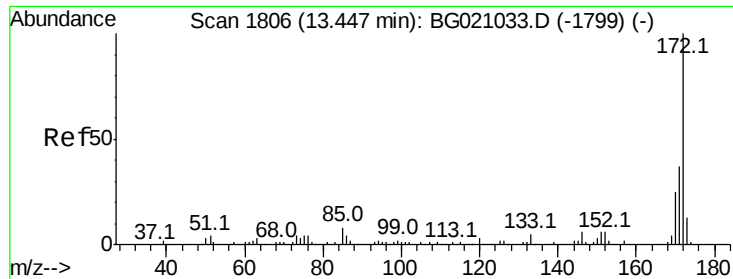


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

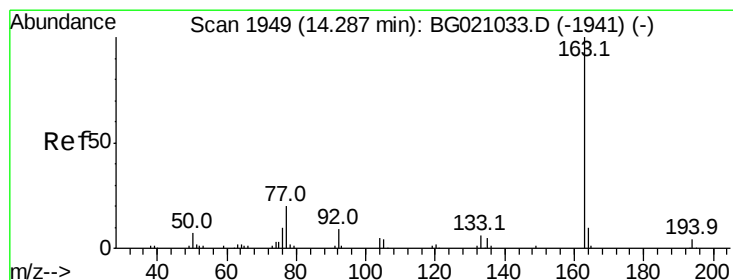
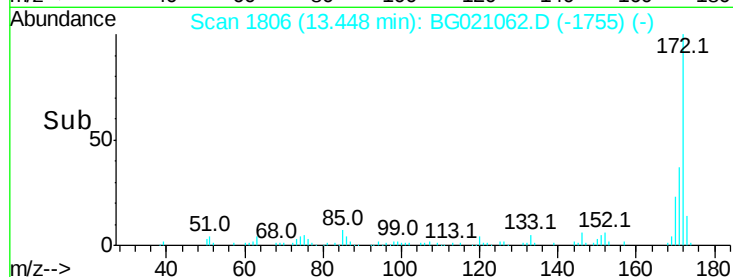
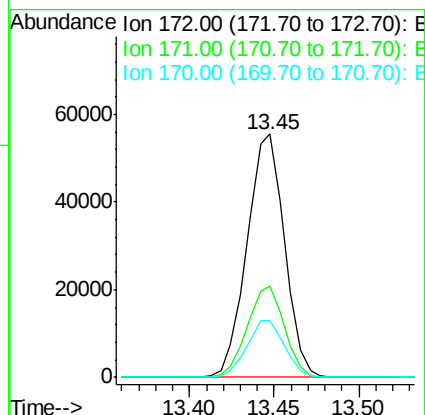
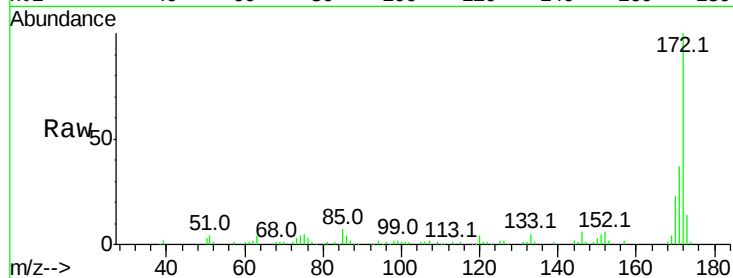




#44
 2-Fluorobiphenyl
 Concen: 88.27 ng
 RT: 13.45 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

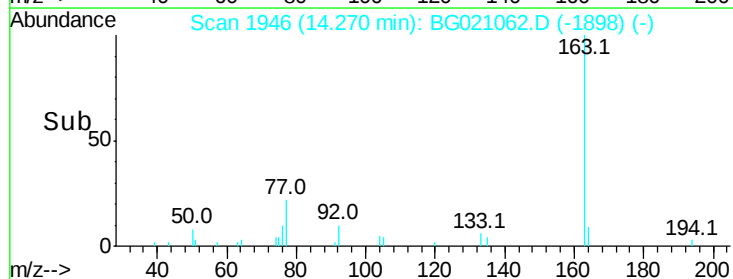
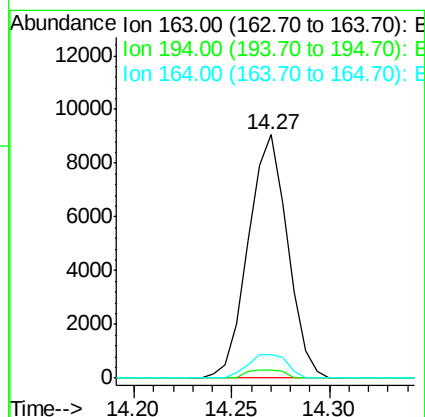
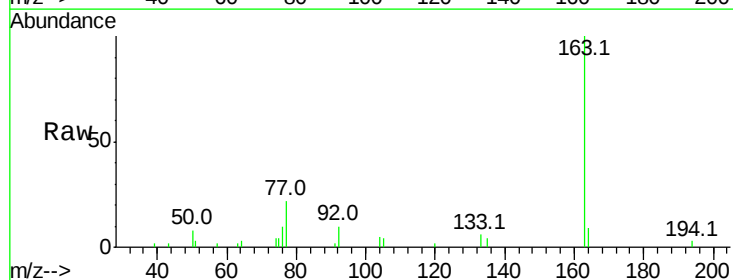
Instrument :
 BNA_G
 ClientSampleId :

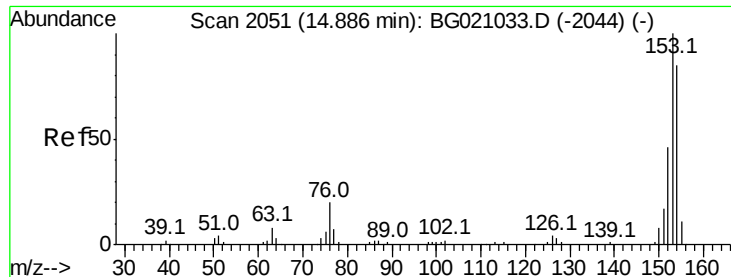
Tot Ion:172 Resp: 85239
 Ion Ratio Lower Upper
 172 100
 171 37.2 29.4 44.0
 170 23.3 19.8 29.8



#49
 Dimethylphthalate
 Concen: 11.50 ng
 RT: 14.27 min Scan# 1946
 Delta R.T. -0.02 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

Tgt Ion:163 Resp: 12603
 Ion Ratio Lower Upper
 163 100
 194 3.3 2.8 4.2
 164 9.4 7.9 11.9





#51

Acenaphthene

Concen: 3.53 ng

RT: 14.88 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Instrument :

BNA_G

ClientSampleId :

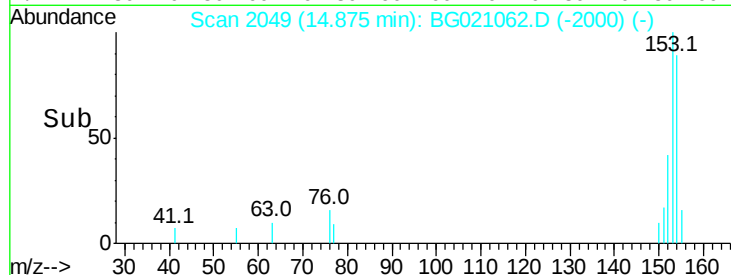
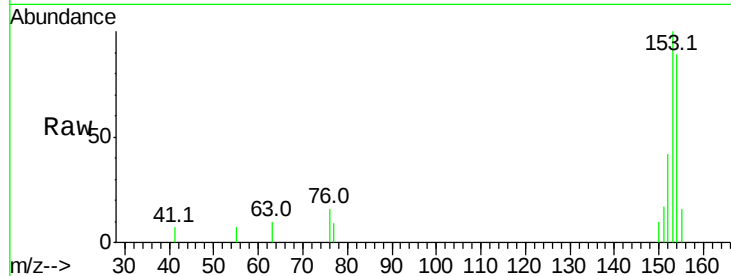
Tot Ion:154 Resp: 3029

Ion Ratio Lower Upper

154 100

153 112.7 94.2 141.2

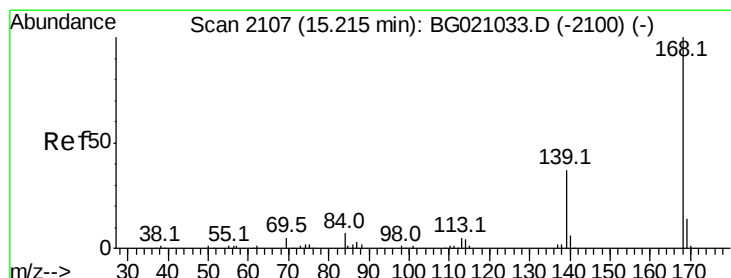
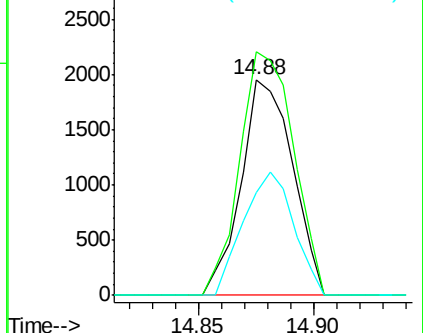
152 47.4 42.9 64.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 3.25 ng

RT: 15.22 min Scan# 2107

Delta R.T. 0.00 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

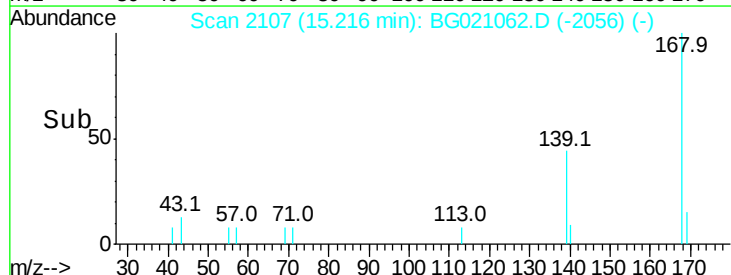
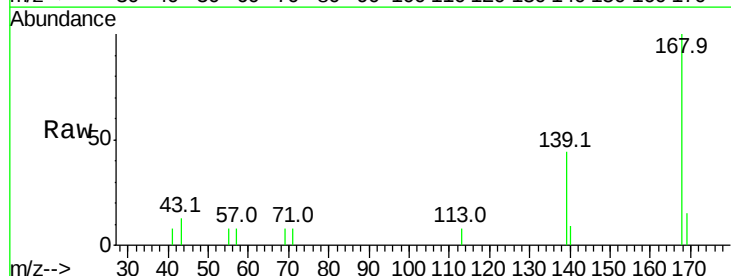
Tgt Ion:168 Resp: 3957

Ion Ratio Lower Upper

168 100

139 44.0 29.8 44.8

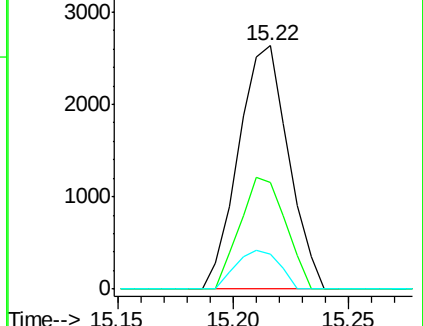
169 14.6 11.4 17.2

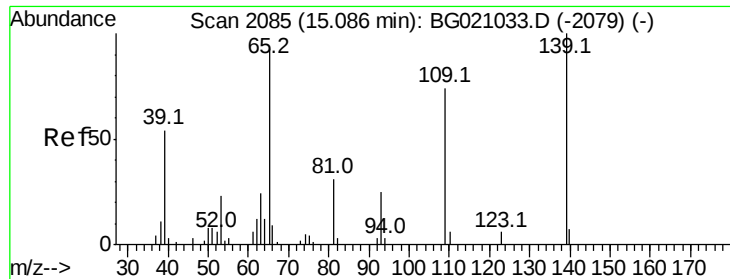


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

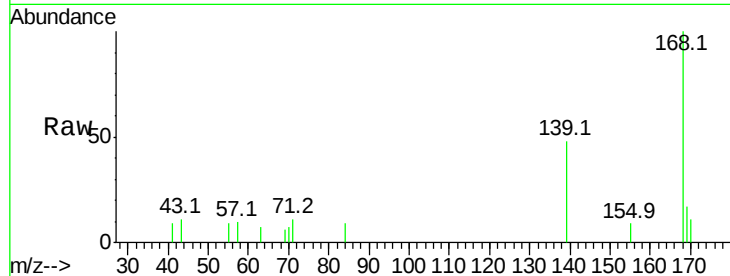




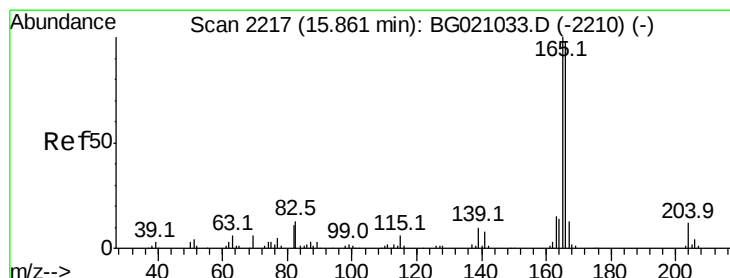
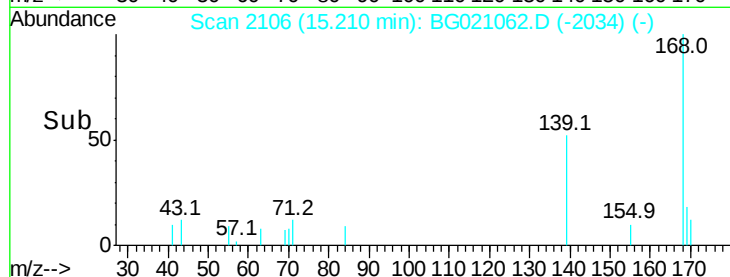
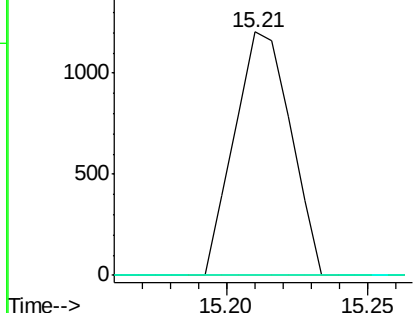
#55
4-Nitrophenol
Concen: 7.47 ng
RT: 15.21 min Scan# 2106
Delta R.T. 0.13 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Instrument :
BNA_G
ClientSampleId :

Tot Ion:139 Resp: 1660
Ion Ratio Lower Upper
139 100
109 0.0 54.1 94.1#
65 0.0 73.4 113.4#

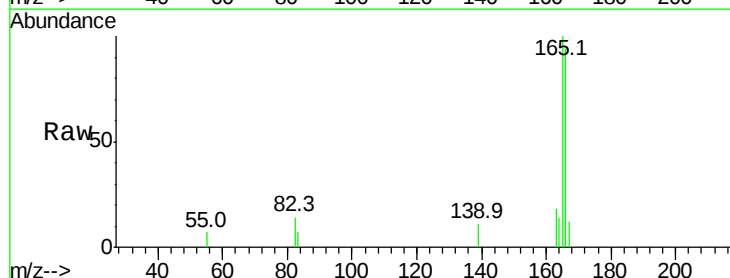


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): B

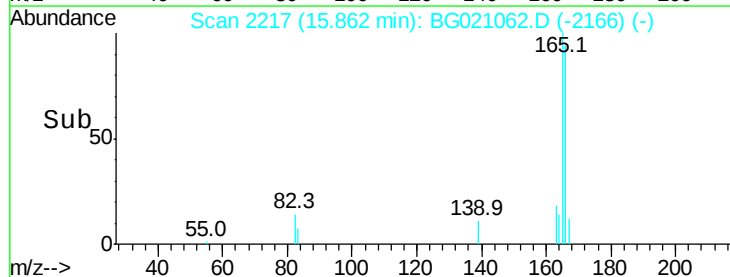
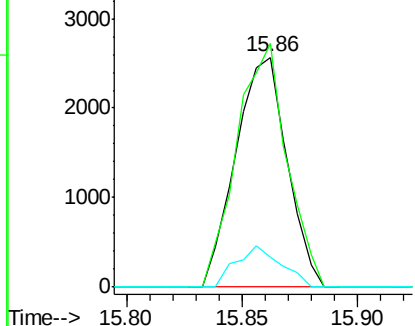


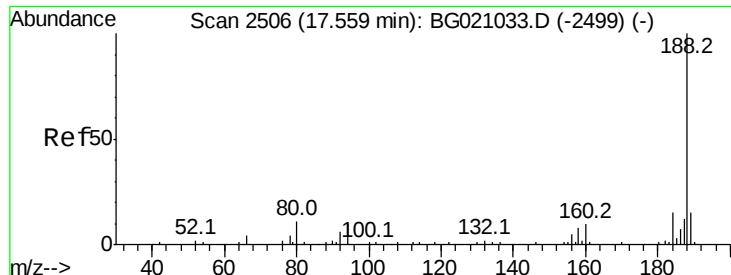
#57
Fluorene
Concen: 3.44 ng
RT: 15.86 min Scan# 2217
Delta R.T. 0.00 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Tgt Ion:166 Resp: 3963
Ion Ratio Lower Upper
166 100
165 106.1 81.3 121.9
167 12.9 10.6 16.0



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

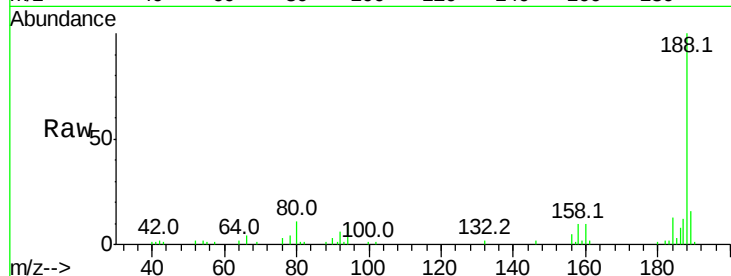




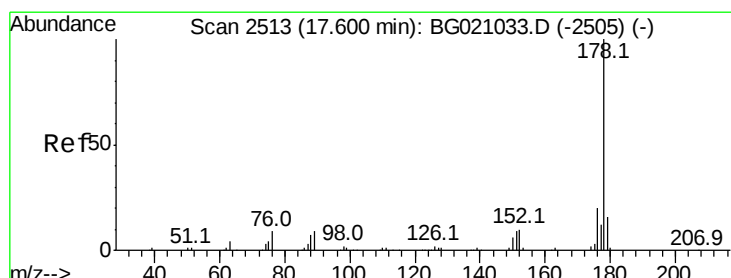
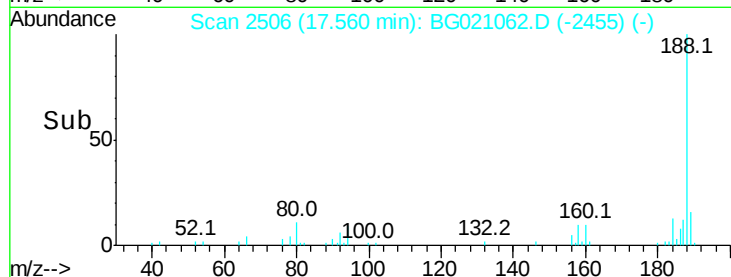
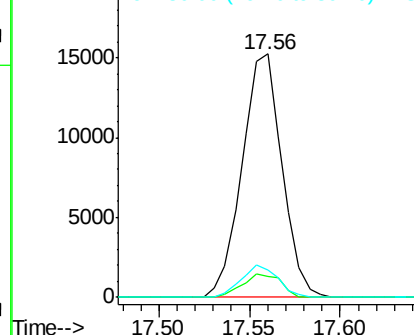
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.56 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:188 Resp: 23267
 Ion Ratio Lower Upper
 188 100
 94 8.8 8.2 12.4
 80 11.0 9.2 13.8

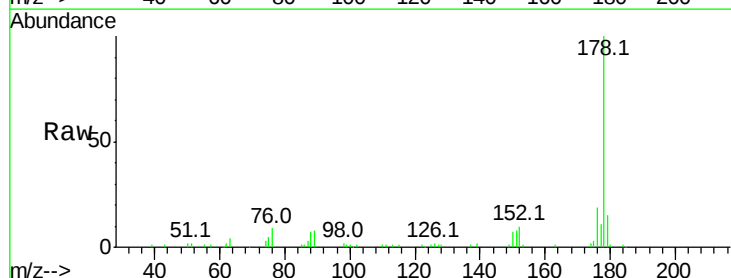


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGC
 Ion 80.00 (79.70 to 80.70): BGC

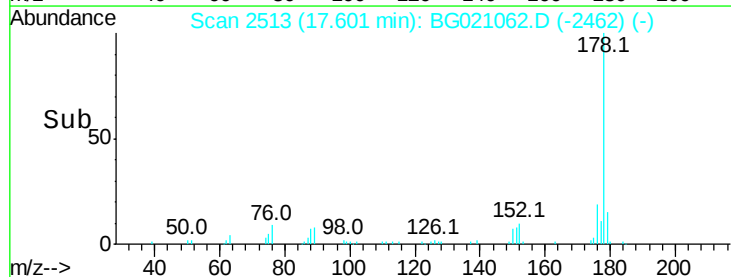
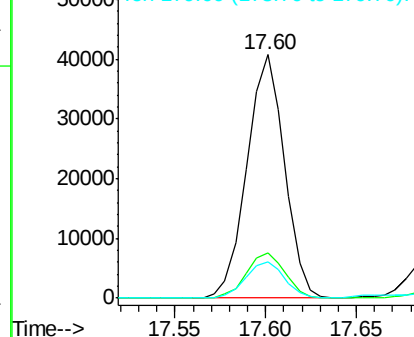


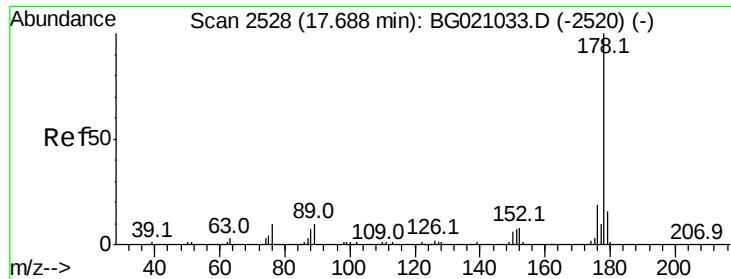
#70
 Phenanthrene
 Concen: 44.49 ng
 RT: 17.60 min Scan# 2513
 Delta R.T. 0.00 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

Tgt Ion:178 Resp: 58556
 Ion Ratio Lower Upper
 178 100
 176 18.7 16.2 24.4
 179 14.7 12.9 19.3



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

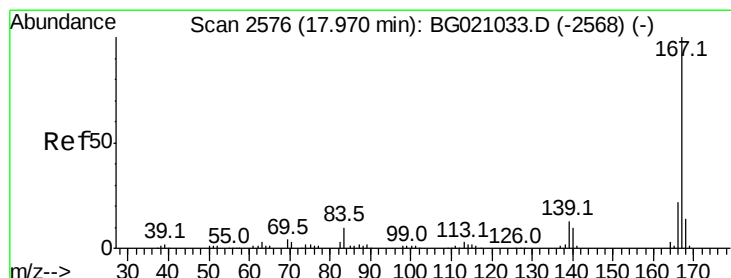
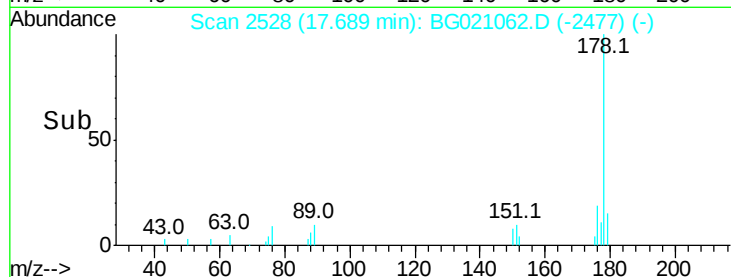
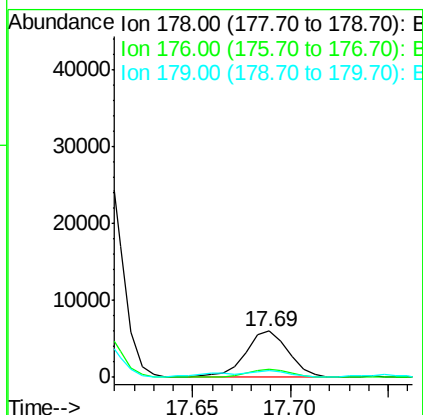
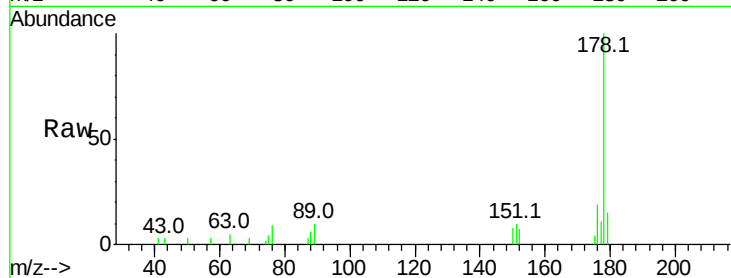




#71
 Anthracene
 Concen: 7.01 ng
 RT: 17.69 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

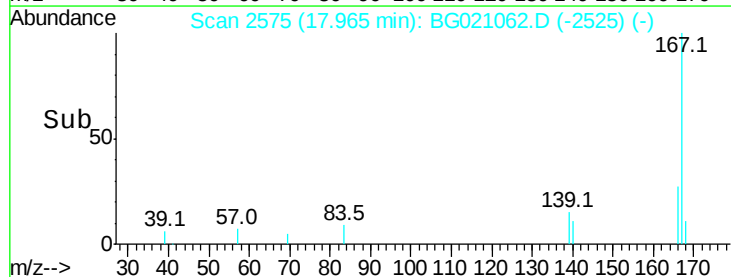
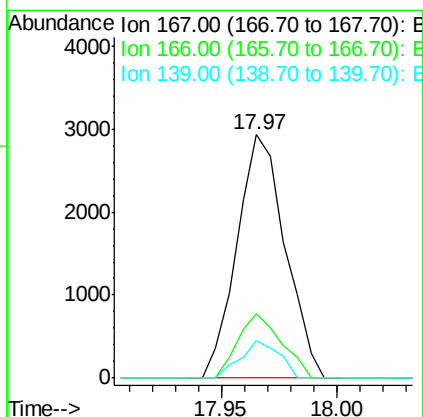
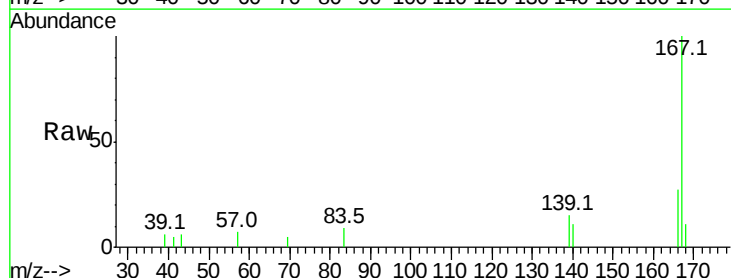
Instrument :
 BNA_G
 ClientSampleId :

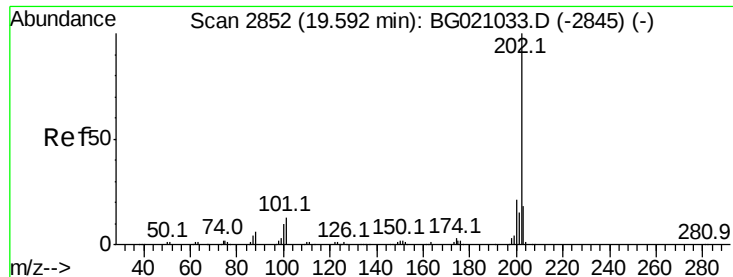
Tot Ion:178 Resp: 9189
 Ion Ratio Lower Upper
 178 100
 176 18.9 14.8 22.2
 179 15.3 12.6 19.0



#72
 Carbazole
 Concen: 3.60 ng
 RT: 17.97 min Scan# 2575
 Delta R.T. -0.01 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

Tgt Ion:167 Resp: 4260
 Ion Ratio Lower Upper
 167 100
 166 26.6 17.5 26.3#
 139 15.2 10.3 15.5





#74

Fluoranthene

Concen: 32.58 ng

RT: 19.59 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BG021062.D

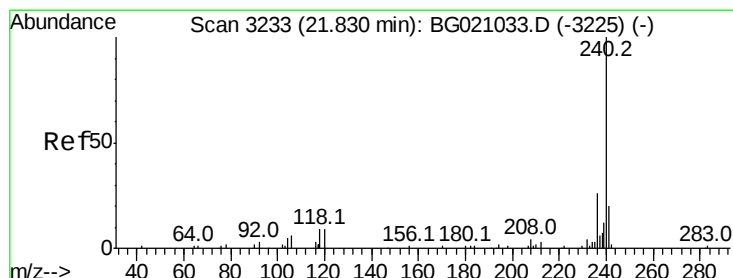
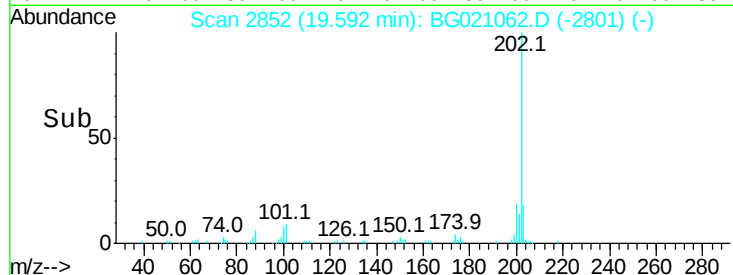
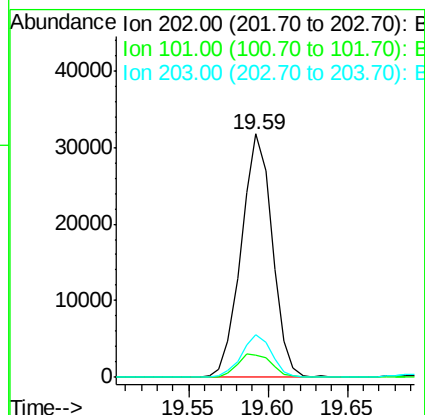
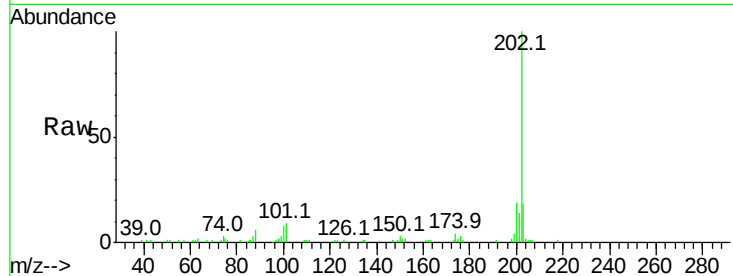
Acq: 24 Feb 2016 21:51

Instrument :

BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	43120
Ion Ratio	Lower	Upper	
202	100		
101	9.1	0.0	32.5
203	17.7	0.0	37.6



#75

Chrysene-d12

Concen: 20.00 ng

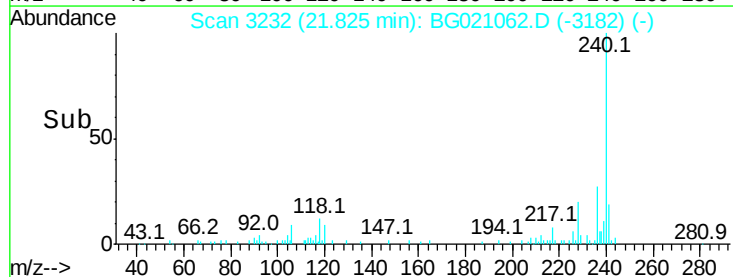
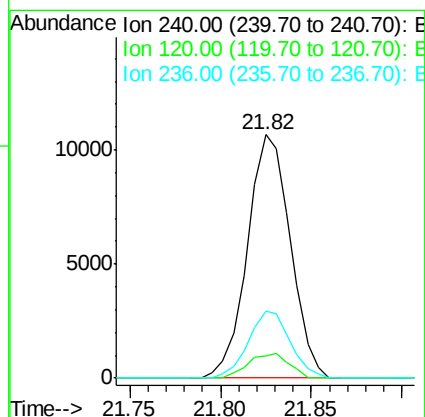
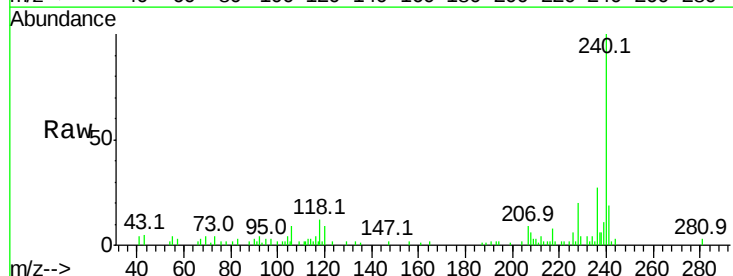
RT: 21.82 min Scan# 3232

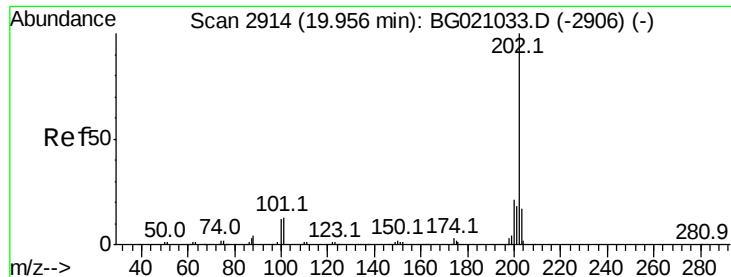
Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Tgt Ion:	240	Resp:	17614
Ion Ratio	Lower	Upper	
240	100		
120	9.1	7.5	11.3
236	27.4	20.5	30.7





#77

Pvrene

Concen: 20.08 ng

RT: 19.96 min Scan# 2914

Delta R.T. 0.00 min

Lab File: BG021062.D

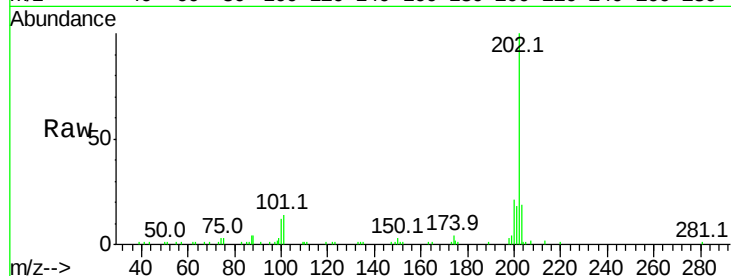
Acq: 24 Feb 2016 21:51

Instrument :

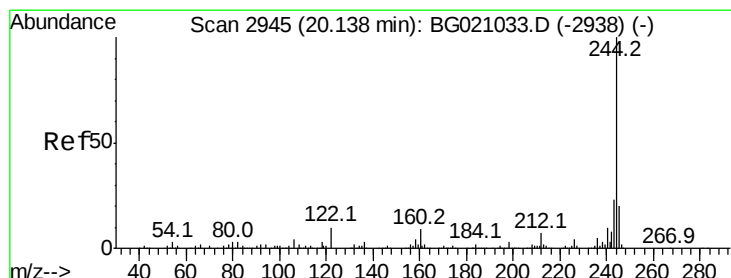
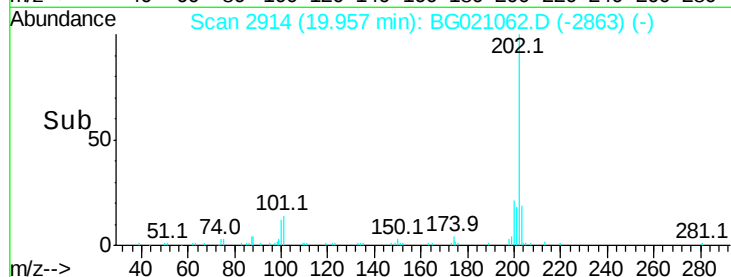
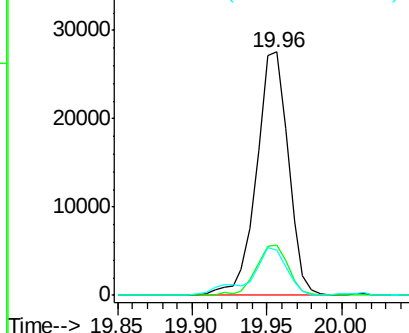
BNA_G

ClientSampleId :

Tot Ion:	202	Resp:	40417
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.6	25.0
203	18.8	13.8	20.8



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 45.27 ng

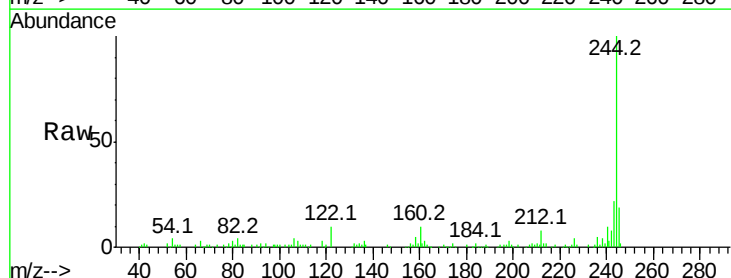
RT: 20.14 min Scan# 2945

Delta R.T. 0.00 min

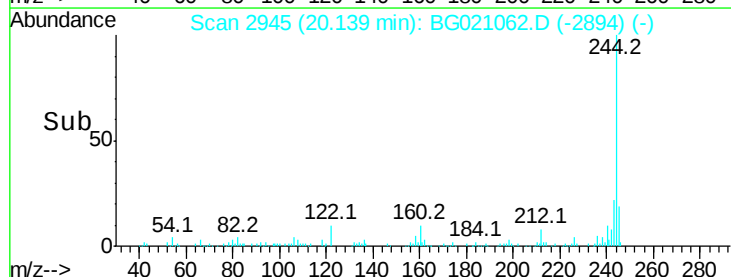
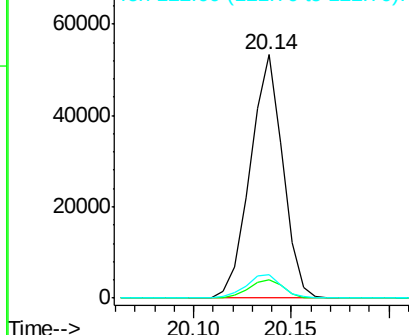
Lab File: BG021062.D

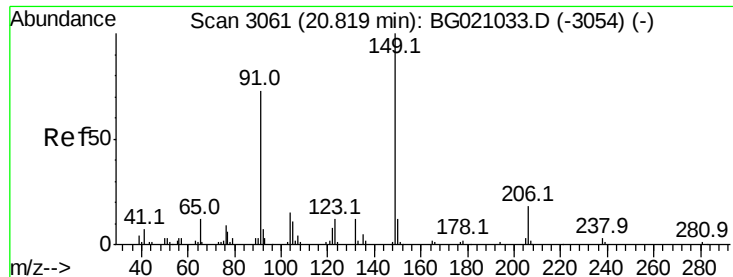
Acq: 24 Feb 2016 21:51

Tgt Ion:	244	Resp:	61450
Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.8	8.6
122	9.8	8.3	12.5



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

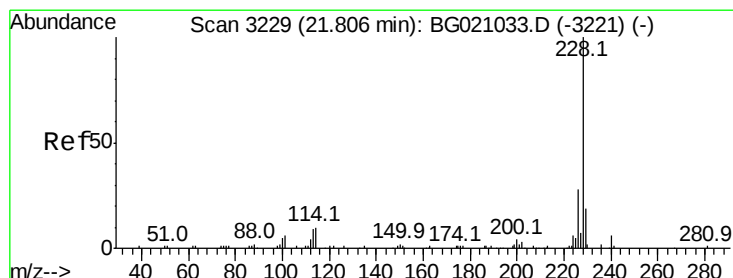
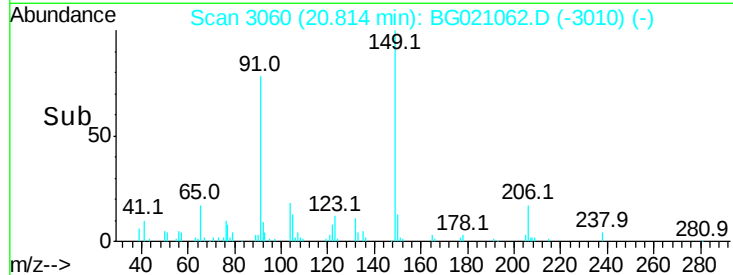
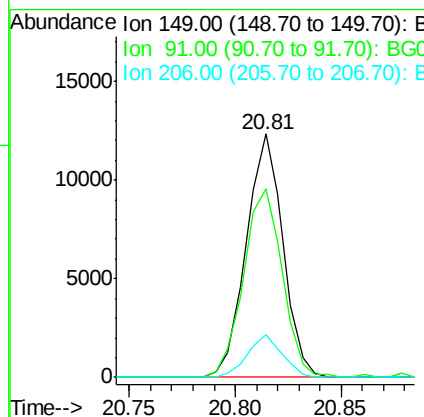
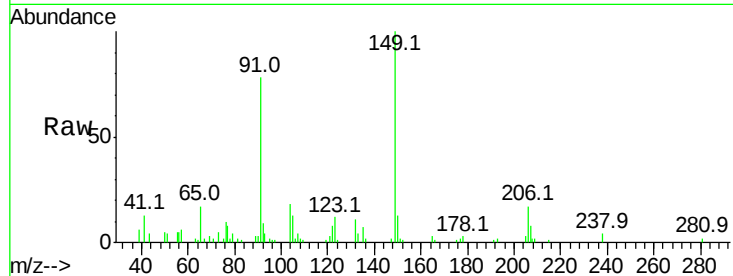




#79
 Butylbenzylphthalate
 Concen: 20.91 ng
 RT: 20.81 min Scan# 3060
 Delta R.T. -0.01 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

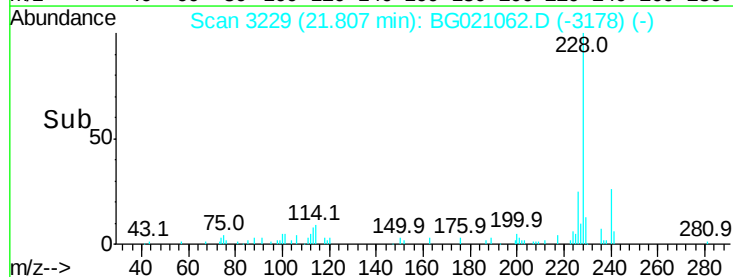
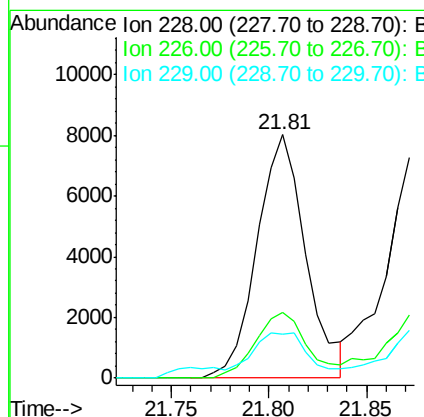
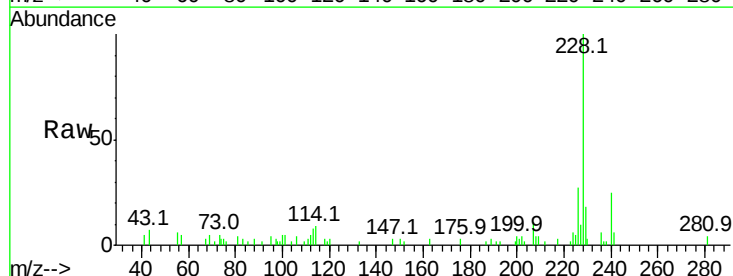
Instrument :
 BNA_G
 ClientSampleId :

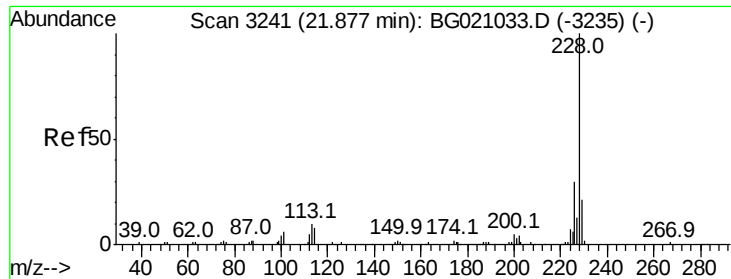
Tot Ion:	149	Resp:	14838
Ion Ratio	Lower	Upper	
149	100		
91	77.6	58.6	87.8
206	17.4	14.2	21.4



#80
 Benzo(a)anthracene
 Concen: 13.13 ng
 RT: 21.81 min Scan# 3229
 Delta R.T. 0.00 min
 Lab File: BG021062.D
 Acq: 24 Feb 2016 21:51

Tgt Ion:	228	Resp:	13868
Ion Ratio	Lower	Upper	
228	100		
226	27.0	22.7	34.1
229	18.0	15.5	23.3





#82

Chrysene

Concen: 13.76 ng

RT: 21.87 min Scan# 3240

Delta R.T. -0.01 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Instrument :

BNA_G

ClientSampled :

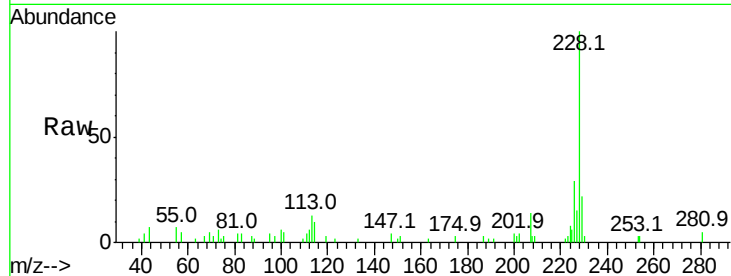
Tot Ion:228 Resp: 13562

Ion Ratio Lower Upper

228 100

226 28.5 23.7 35.5

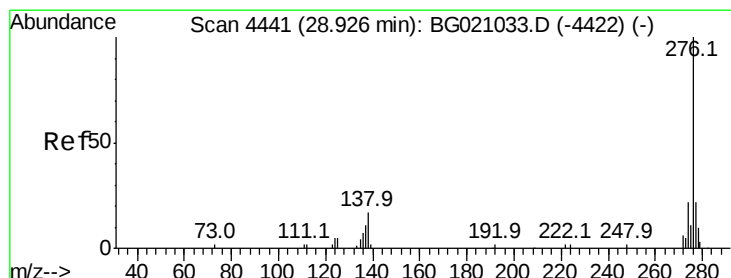
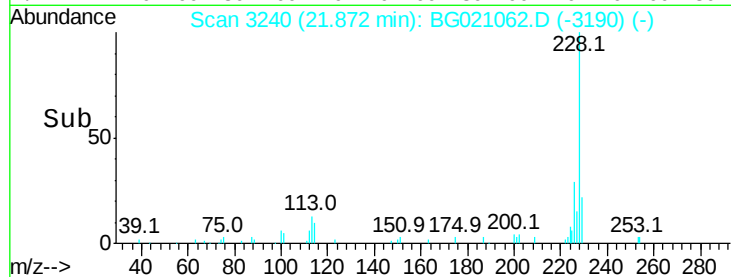
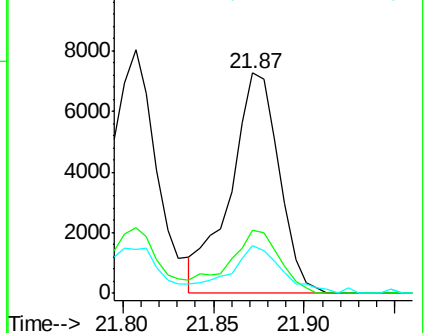
229 21.8 16.7 25.1



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: 4.74 ng

RT: 28.94 min Scan# 4444

Delta R.T. 0.02 min

Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

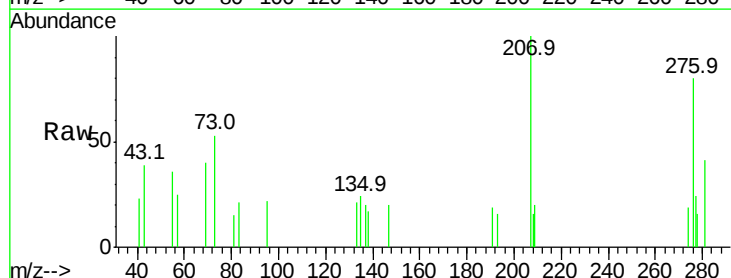
Tgt Ion:276 Resp: 4203

Ion Ratio Lower Upper

276 100

138 4.2 0.0 0.0#

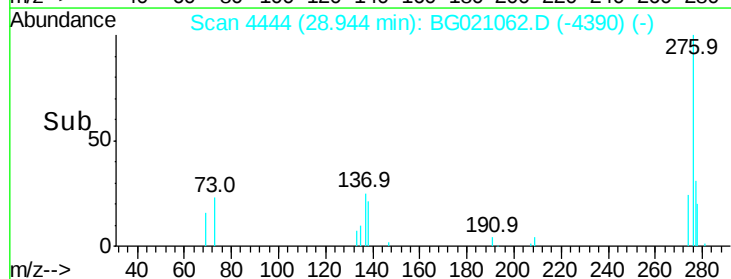
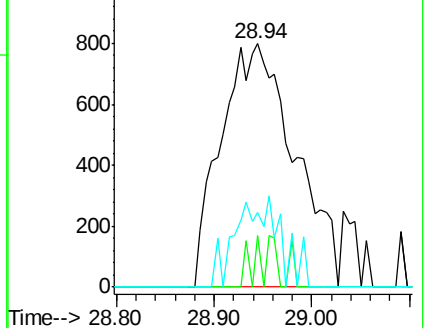
277 0.0 0.0 0.0

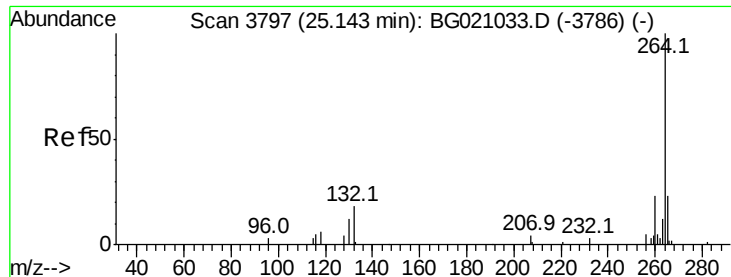


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



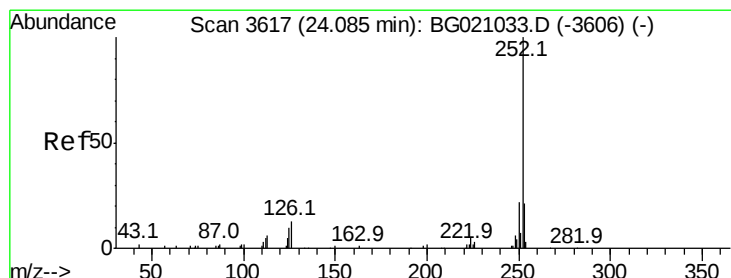
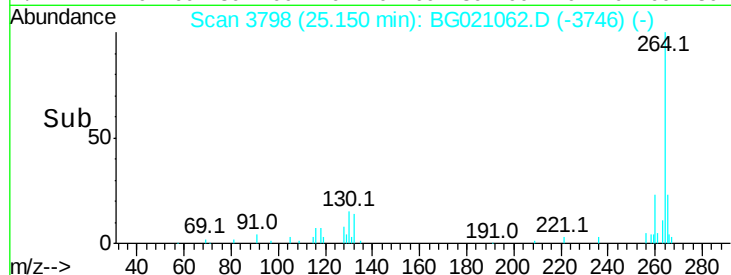
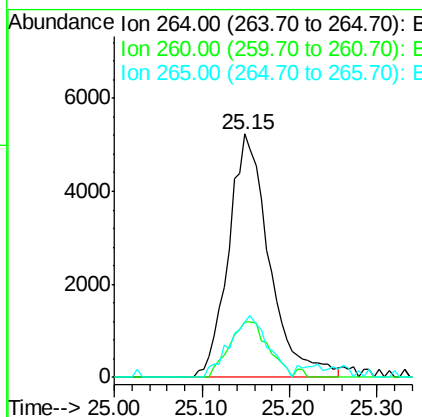
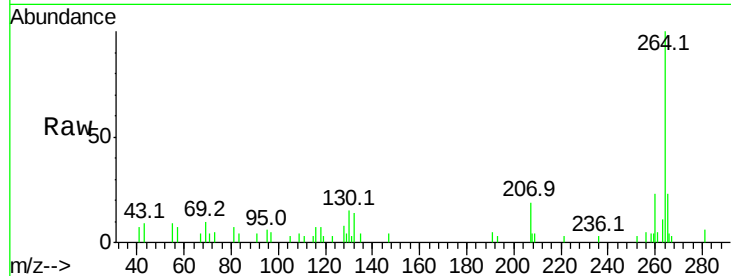


#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.15 min Scan# 3798
Delta R.T. 0.01 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Instrument :
BNA_G
ClientSampleId :

Tot Ion:264 Resp: 16569

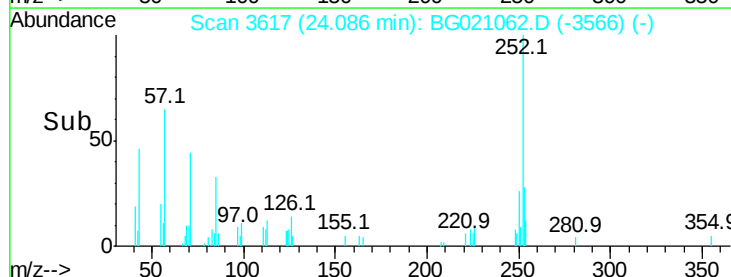
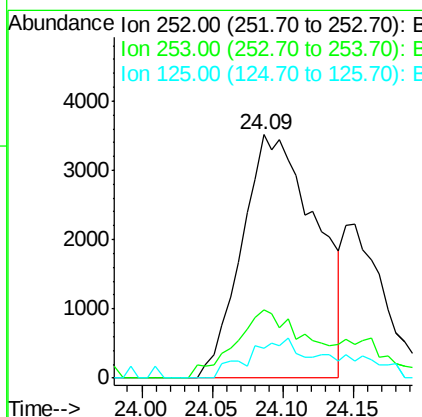
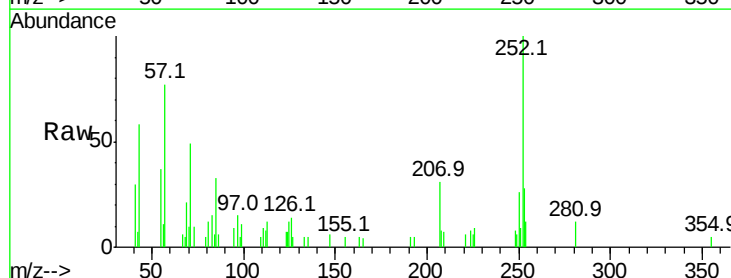
Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.5	27.7
265	22.6	18.6	28.0

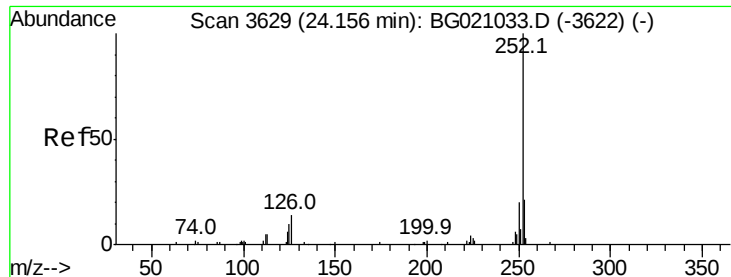


#87
Benzo(b)fluoranthene
Concen: 11.76 ng
RT: 24.09 min Scan# 3617
Delta R.T. 0.00 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Tgt Ion:252 Resp: 12850

Ion	Ratio	Lower	Upper
252	100		
253	28.2	16.8	25.2#
125	12.1	8.2	12.2

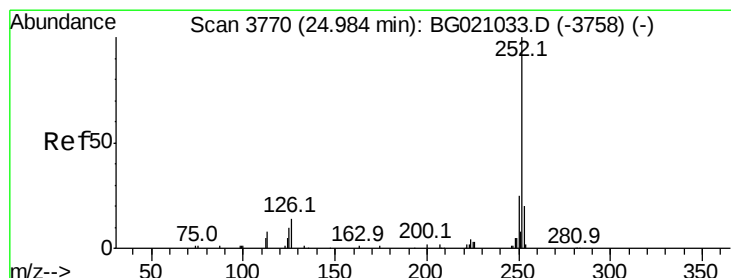
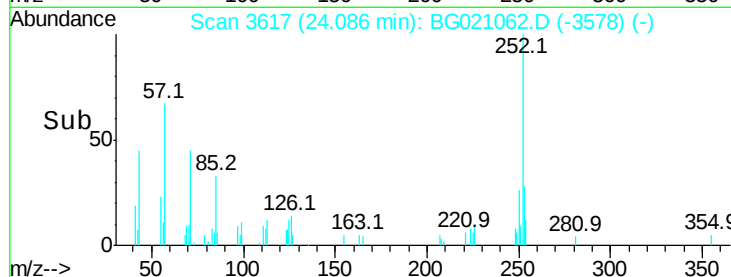
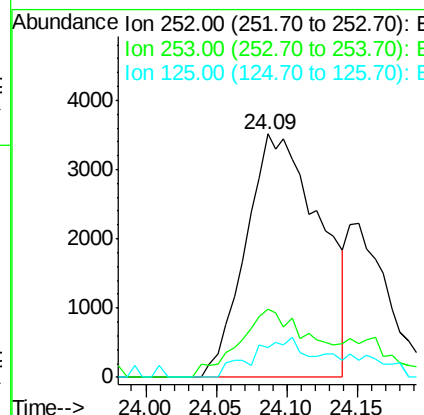
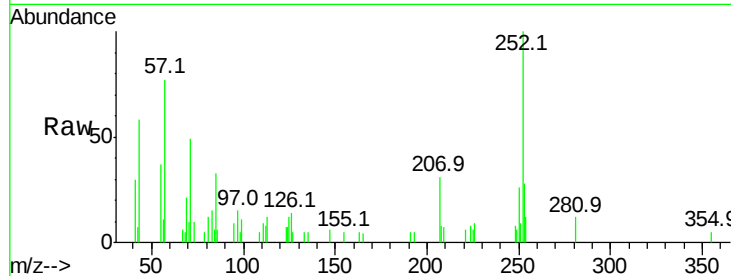




#88
Benzo(k)fluoranthene
Concen: 12.47 ng
RT: 24.09 min Scan# 3617
Delta R.T. -0.07 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

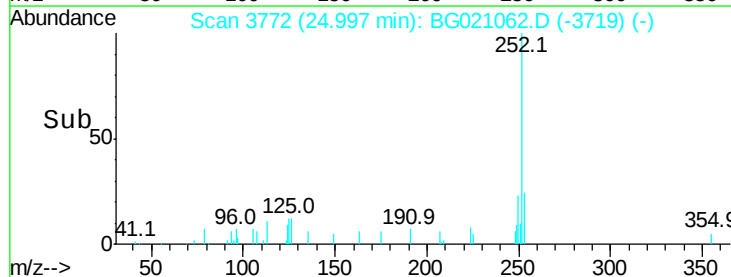
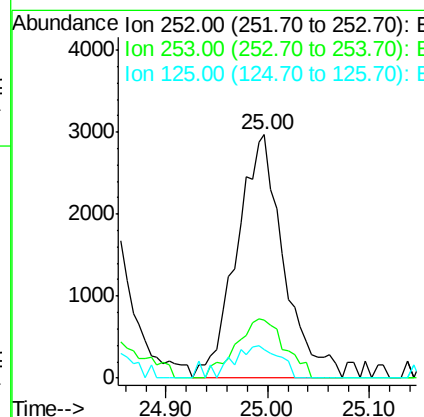
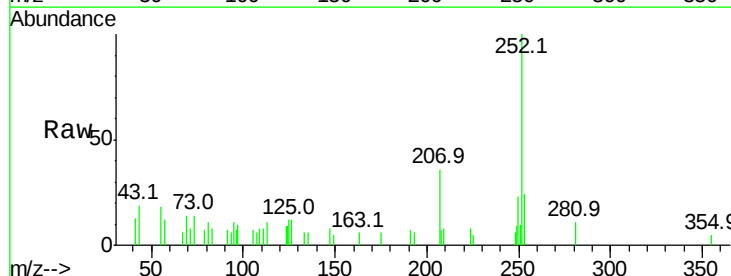
Instrument :
BNA_G
ClientSampleId :

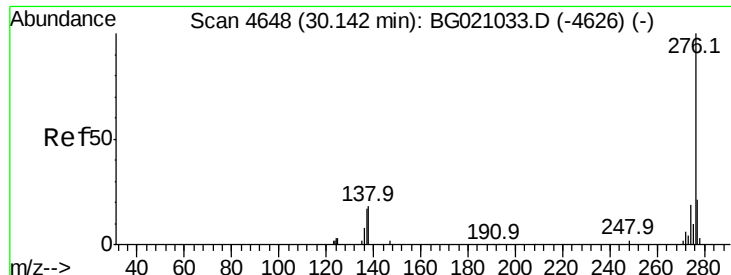
Tot Ion:252 Resp: 12850
Ion Ratio Lower Upper
252 100
253 28.2 16.4 24.6#
125 12.1 8.2 12.2



#89
Benzo(a)pyrene
Concen: 9.72 ng
RT: 25.00 min Scan# 3772
Delta R.T. 0.01 min
Lab File: BG021062.D
Acq: 24 Feb 2016 21:51

Tgt Ion:252 Resp: 9513
Ion Ratio Lower Upper
252 100
253 23.7 15.8 23.8
125 11.7 8.4 12.6





#91

Benzo(a,h,i)perylene

Concen: 4.69 ng

RT: 30.15 min Scan# 4649

Delta R.T. 0.01 min

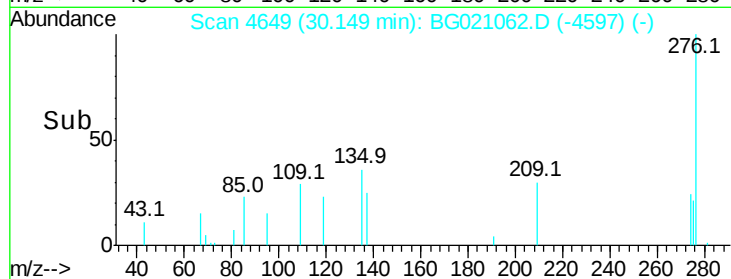
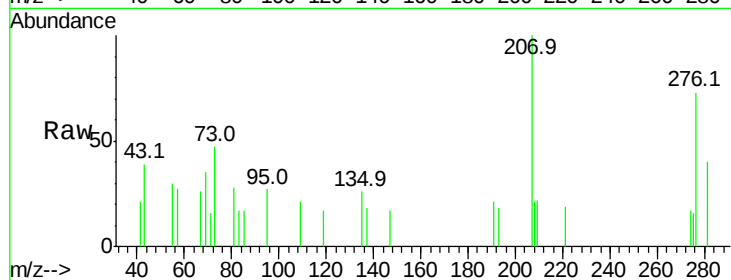
Lab File: BG021062.D

Acq: 24 Feb 2016 21:51

Instrument :

BNA_G

ClientSampleId :



Tot Ion:	276	Resp:	4128
Ion Ratio	Lower	Upper	
276	100		
277	0.0	16.6	25.0#
138	0.0	14.6	21.8#

