

Data Path : Z:\HPCHEM1\BNA G\DATA\BG062217\
 Data File : BG027602.D
 Acq On : 22 Jun 2017 18:54
 Operator : SJ/JU
 Sample : PB100013BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Jun 23 02:09:54 2017
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 21 18:52:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.51	152	22968	20.00	ng	0.00
21) Naphthalene-d8	11.32	136	95285	20.00	ng	0.00
38) Acenaphthene-d10	15.09	164	56621	20.00	ng	0.00
63) Phenanthrene-d10	17.84	188	147859	20.00	ng	0.00
75) Chrysene-d12	22.21	240	199075	20.00	ng	0.00
86) Perylene-d12	25.84	264	193880	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	0.00	99	0	0.00	ng	
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	13.71	172	171167	41.29	ng	0.00
78) Terphenyl-d14	0.00	244	0	0.00	ng	

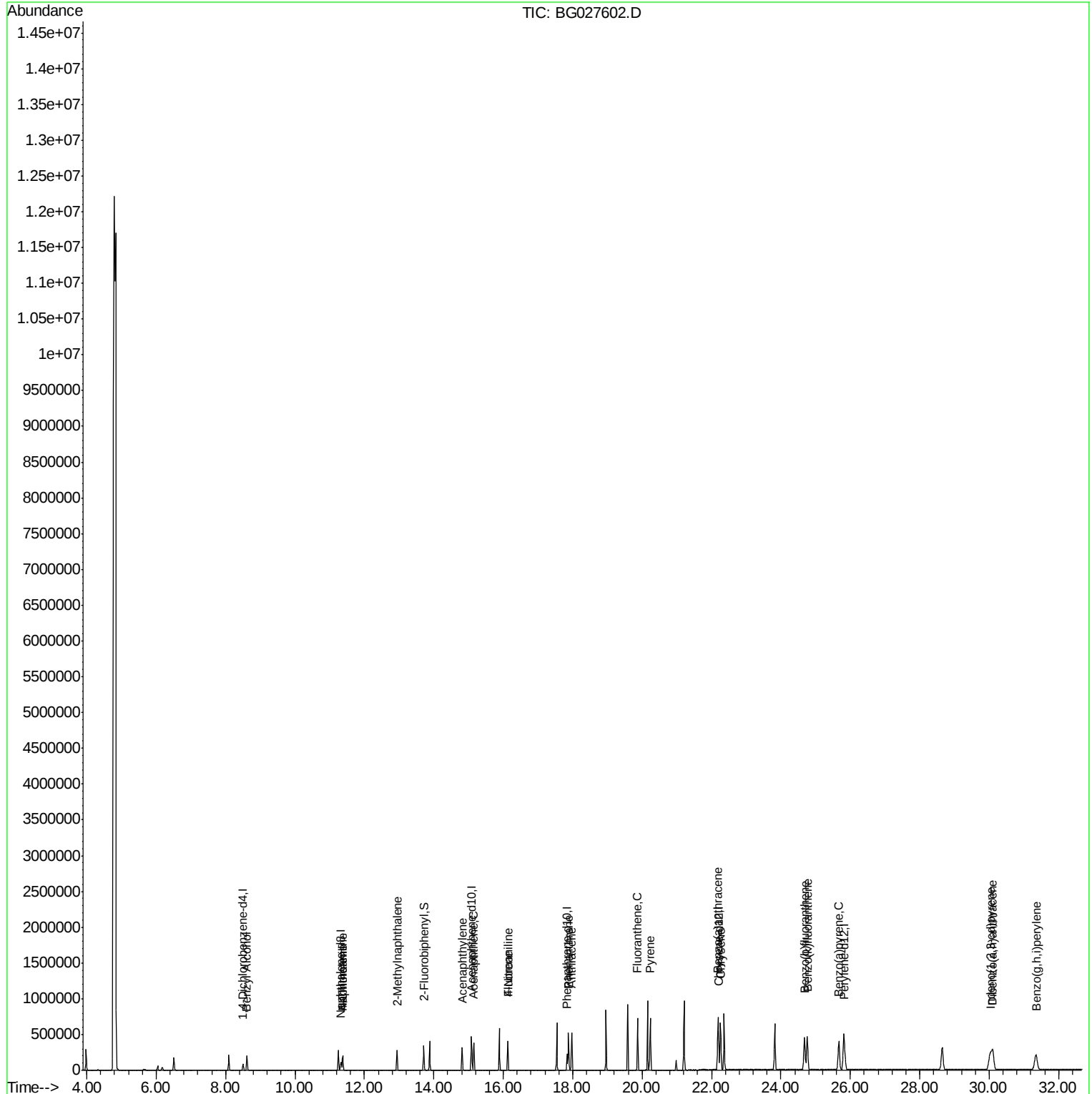
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Benzyl Alcohol	8.61	79	13149	6.89	ng	# 20
31) Naphthalene	11.37	128	176401	34.25	ng	100
33) 4-Chloroaniline	11.37	127	24149	11.06	ng	# 27
37) 2-Methylnaphthalene	12.94	142	134354	35.90	ng	99
48) Acenaphthylene	14.82	152	228399	37.12	ng	96
51) Acenaphthene	15.15	154	144168	33.63	ng	98
57) Fluorene	16.13	166	188509	35.65	ng	97
61) 4-Nitroaniline	16.14	138	2620	2.10	ng	# 1
70) Phenanthrene	17.88	178	341915	40.65	ng	93
71) Anthracene	17.97	178	348995	41.21	ng	96
74) Fluoranthene	19.87	202	468747	47.83	ng	95
77) Pvrene	20.23	202	481099	39.76	ng	95
80) Benzo(a)anthracene	22.18	228	505921	42.36	ng	93
82) Chrysene	22.26	228	475035	41.97	ng	93
85) Indeno(1,2,3-cd)pyrene	30.03	276	584985	45.36	ng	# 97
87) Benzo(b)fluoranthene	24.68	252	506644	40.87	ng	# 96
88) Benzo(k)fluoranthene	24.76	252	499757	41.21	ng	# 95
89) Benzo(a)pyrene	25.67	252	485652	41.51	ng	# 95
90) Dibenzo(a,h)anthracene	30.10	278	497189	41.73	ng	# 98
91) Benzo(a,h,i)perylene	31.34	276	478561	41.35	ng	# 93

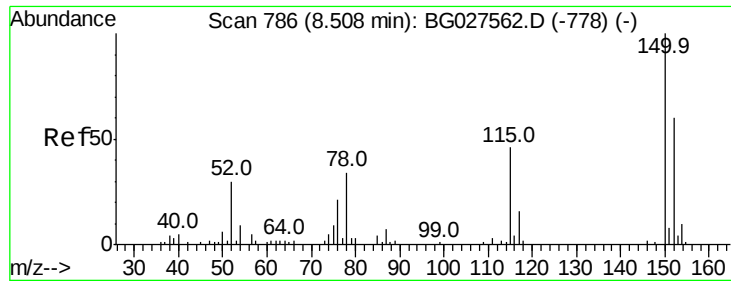
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\HPCHEM1\BNA G\DATA\BG062217\  
Data File : BG027602.D  
Acq On    : 22 Jun 2017  18:54  
Operator  : SJ/JU  
Sample    : PB100013BS  
Misc      :  
ALS Vial  : 8      Sample Multiplier: 1
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Instrument :
BNA_G
ClientSampleId :

Quant Time: Jun 23 02:09:54 2017
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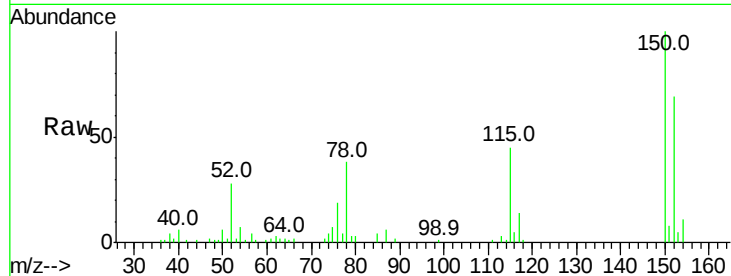


#1

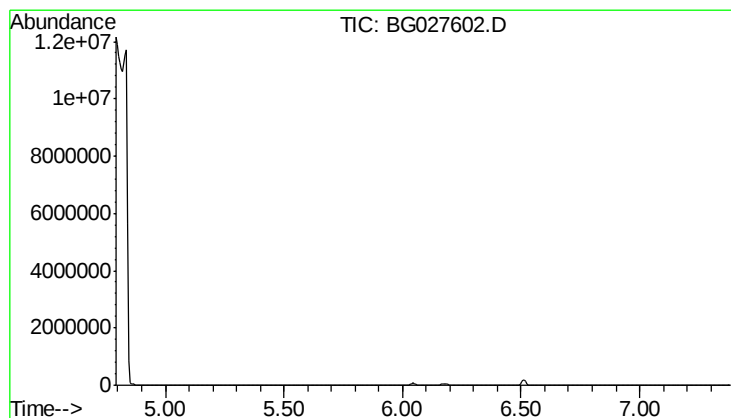
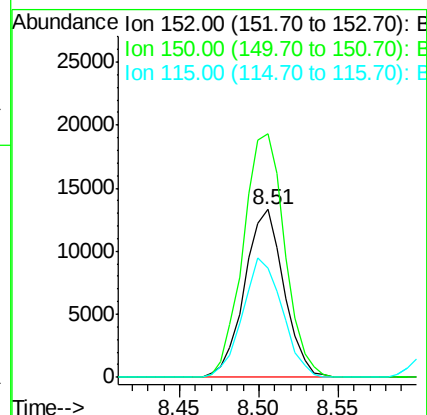
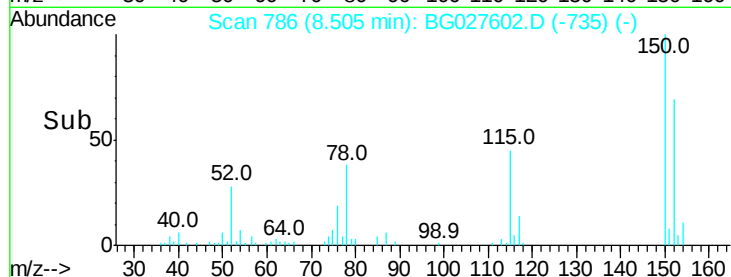
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.51 min Scan# 786
Delta R.T. -0.00 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 22968
Ion Ratio Lower Upper
152 100
150 145.1 114.0 171.0
115 65.1 48.1 72.1



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

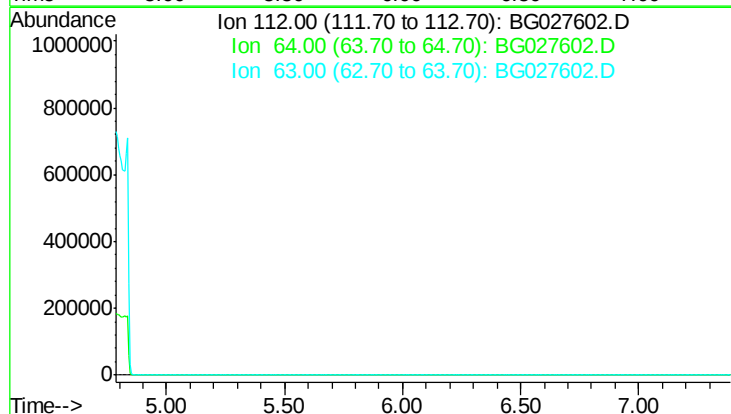


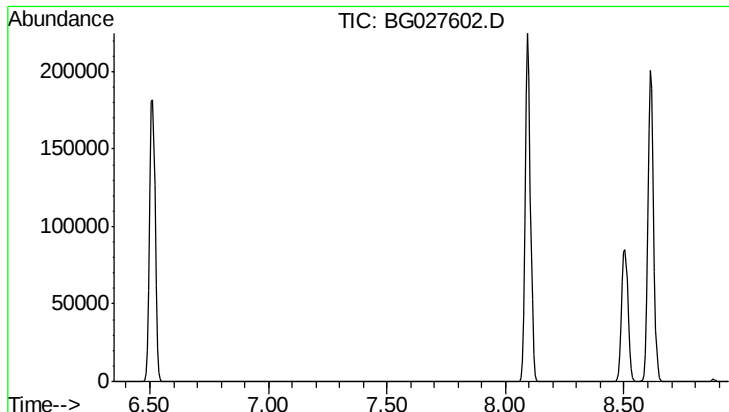
#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 6.09 min

Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Tgt Ion: 112
Sig Exp Ratio
112 100
64 77.2
63 46.5





#7

Phenol-d6

Concen: 0.00 ng

Expected RT: 7.64 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Instrument :

BNA_G

ClientSampleId :

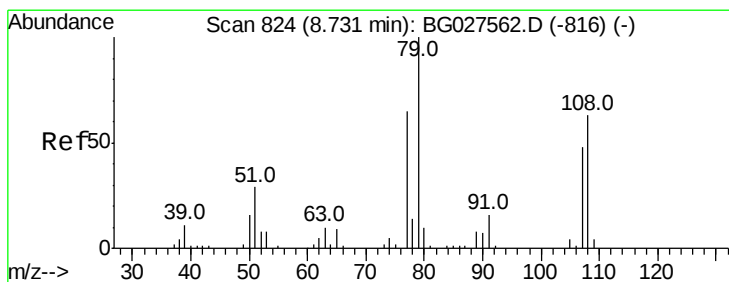
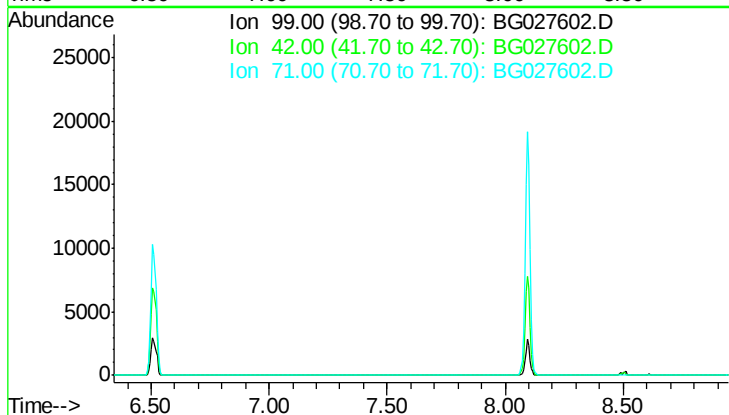
Tot Ion: 99

Sig Exp Ratio

99 100

42 25.6

71 47.0



#15

Benzyl Alcohol

Concen: 6.89 ng

RT: 8.61 min Scan# 804

Delta R.T. -0.12 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

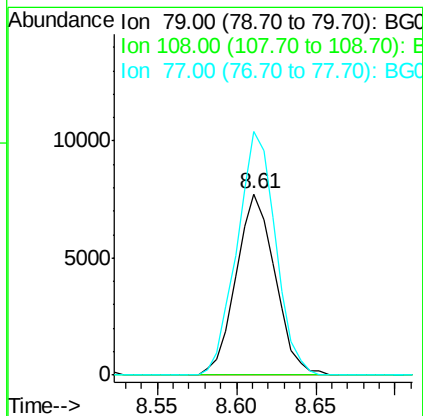
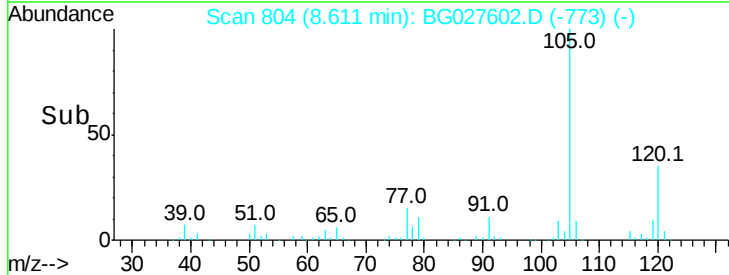
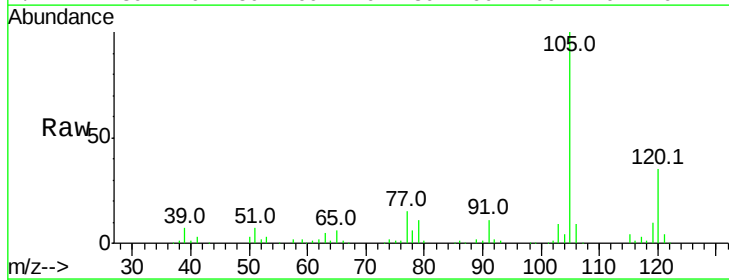
Tgt Ion: 79 Resp: 13149

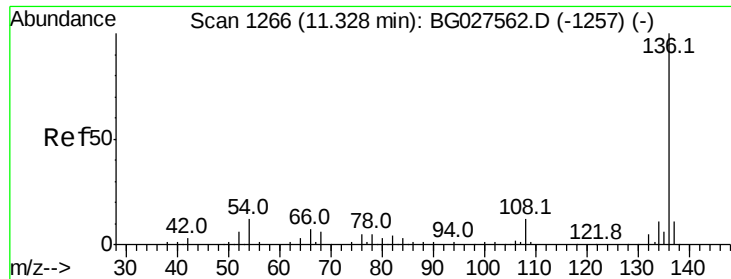
Ion Ratio Lower Upper

79 100

108 0.0 45.5 68.3#

77 134.4 54.3 81.5#

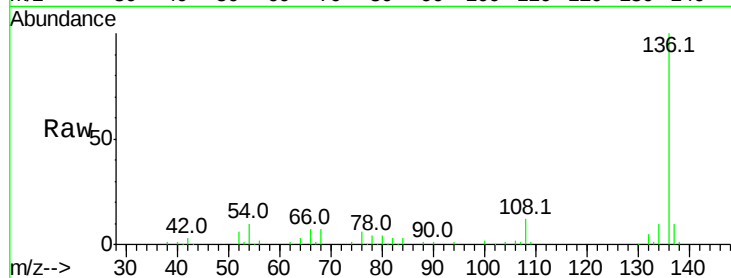




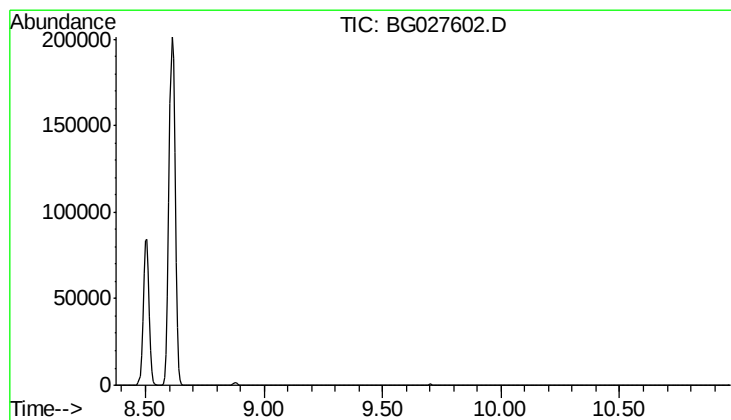
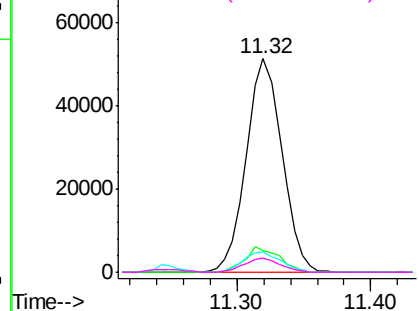
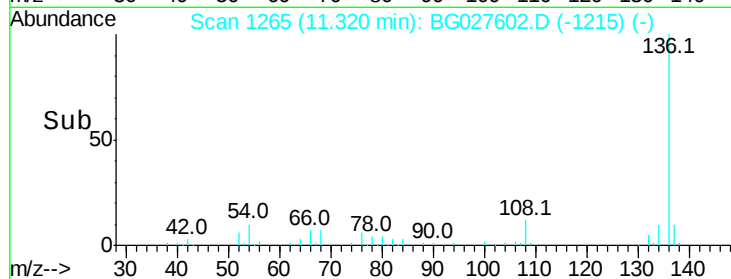
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 11.32 min Scan# 1265
Delta R.T. -0.01 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Instrument :
BNA_G
ClientSampleId :

Tot Ion:136	Resp:	95285
Ion	Ratio	Lower Upper
136	100	
137	10.4	8.9 13.3
54	9.7	9.3 13.9
68	6.7	5.1 7.7



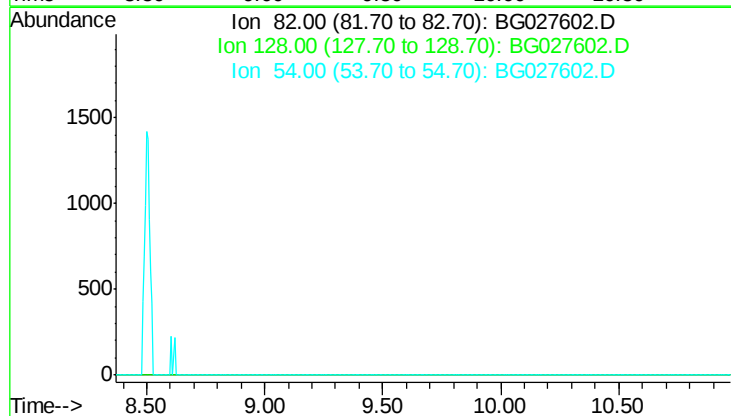
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BG
Ion 68.00 (67.70 to 68.70): BG

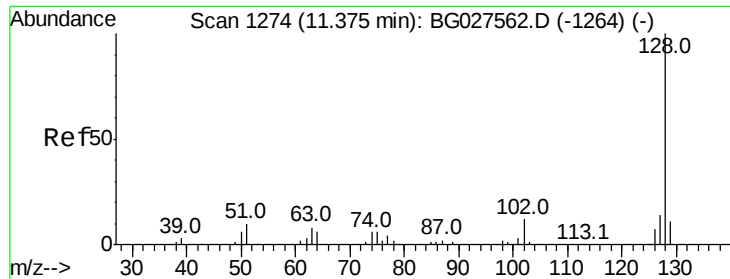


#23
Nitrobenzene-d5
Concen: 0.00 ng
Expected RT: 9.67 min

Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Tgt Ion:	82
Sig	Exp Ratio
82	100
128	33.0
54	61.8

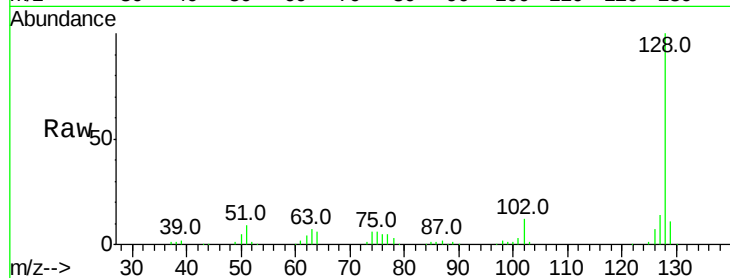




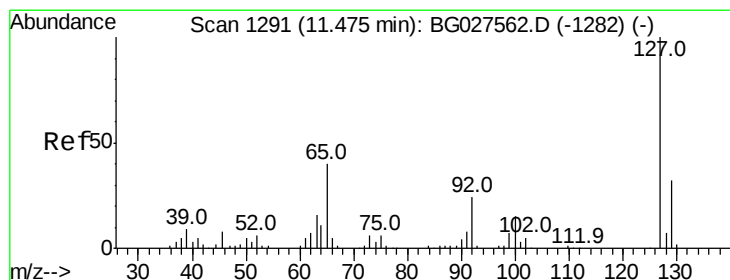
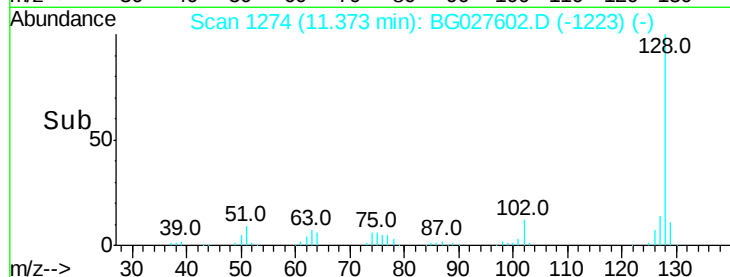
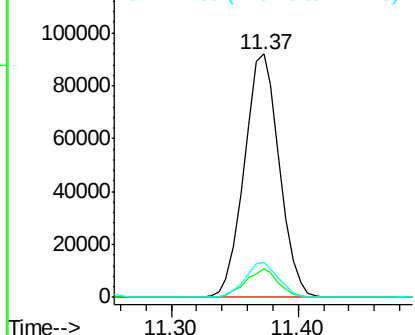
#31
Naphthalene
Concen: 34.25 ng
RT: 11.37 min Scan# 1274
Delta R.T. -0.00 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Instrument :
BNA_G
ClientSampleId :

Tot Ion:128 Resp: 176401
Ion Ratio Lower Upper
128 100
129 11.5 9.3 13.9
127 14.1 11.4 17.0

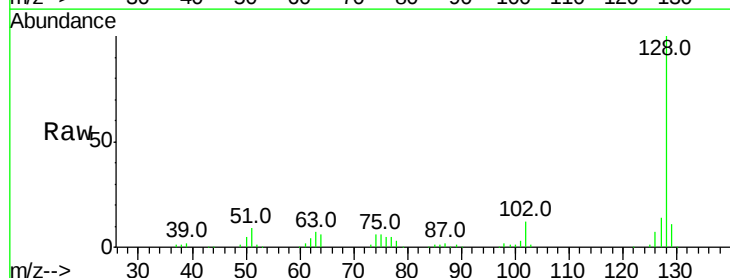


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

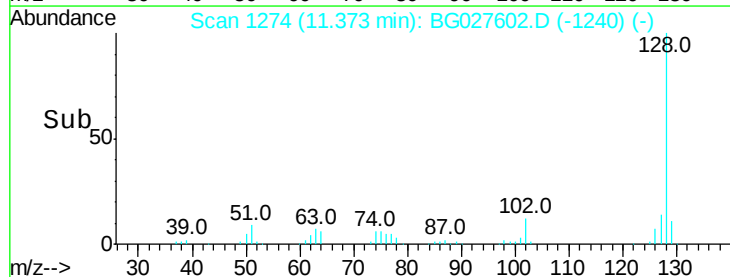
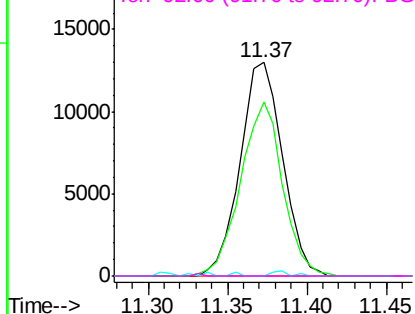


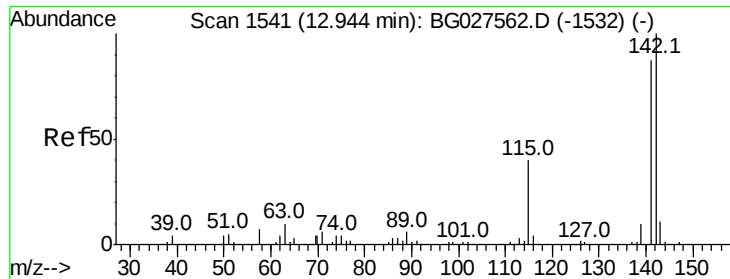
#33
4-Chloroaniline
Concen: 11.06 ng
RT: 11.37 min Scan# 1274
Delta R.T. -0.10 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Tgt Ion:127 Resp: 24149
Ion Ratio Lower Upper
127 100
129 81.4 23.6 35.4#
65 0.0 37.7 56.5#
92 0.0 17.6 26.4#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BGC
Ion 92.00 (91.70 to 92.70): BGC

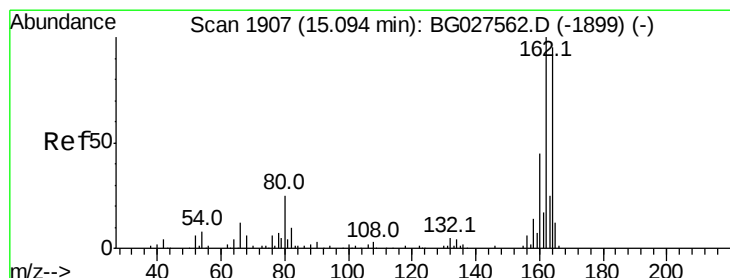
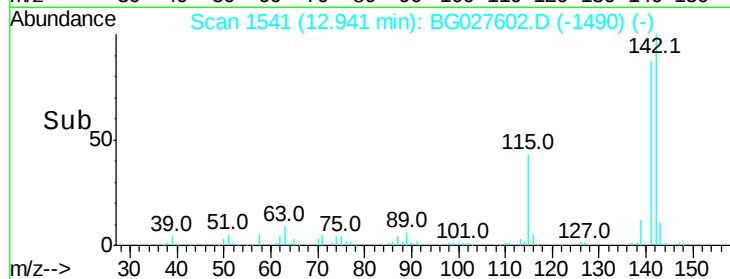
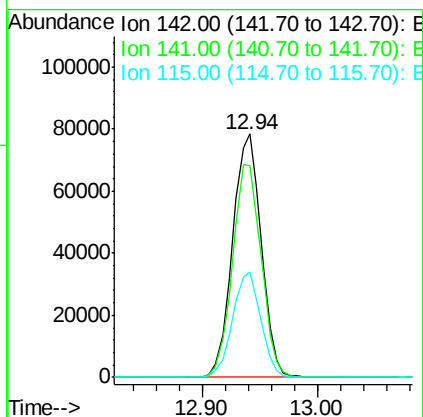
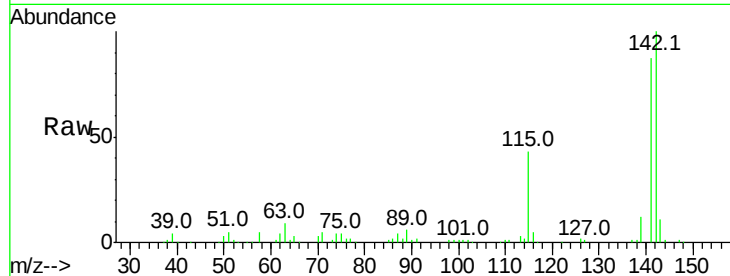




#37
 2-Methylnaphthalene
 Concen: 35.90 ng
 RT: 12.94 min Scan# 1541
 Delta R.T. -0.00 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

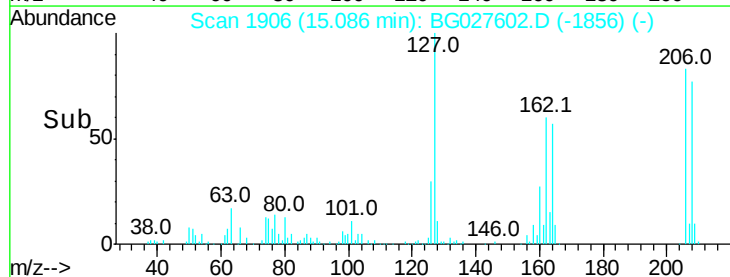
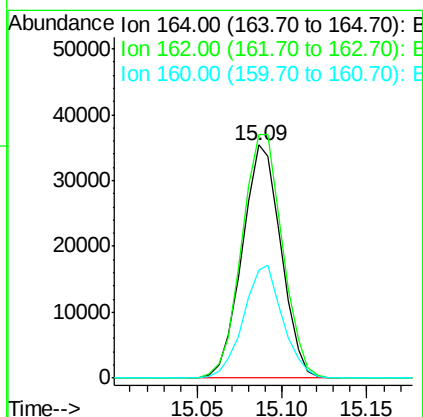
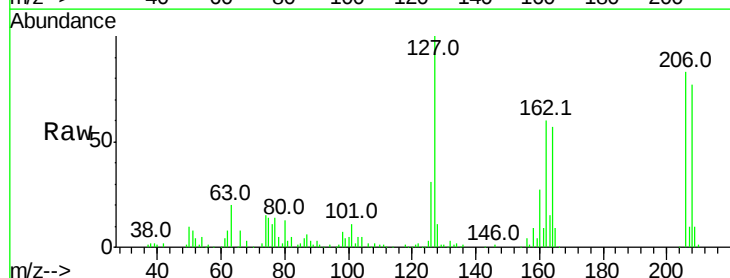
Instrument :
 BNA_G
 ClientSampled :

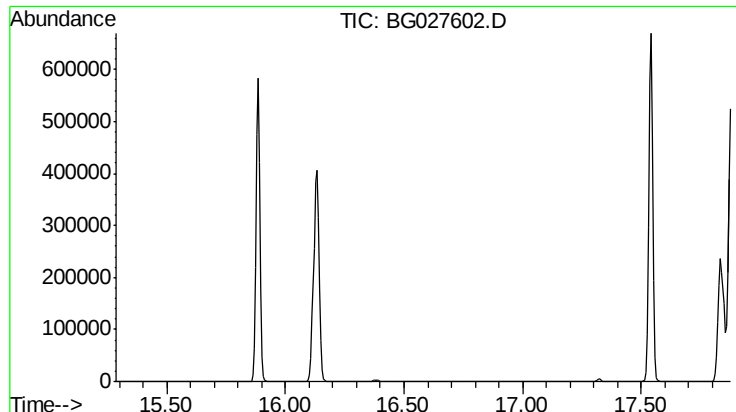
Tot Ion:142 Resp: 134354
 Ion Ratio Lower Upper
 142 100
 141 87.2 70.4 105.6
 115 43.1 35.5 53.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.09 min Scan# 1906
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

Tgt Ion:164 Resp: 56621
 Ion Ratio Lower Upper
 164 100
 162 104.4 85.1 127.7
 160 46.3 34.7 52.1

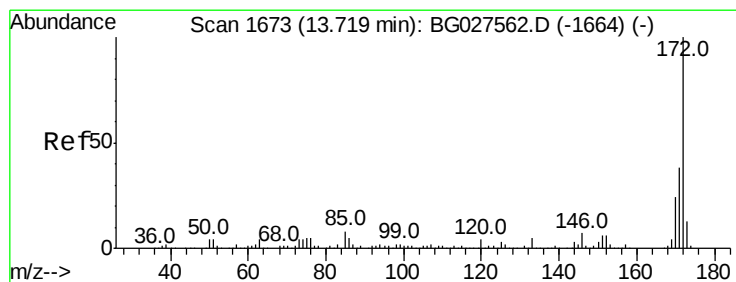
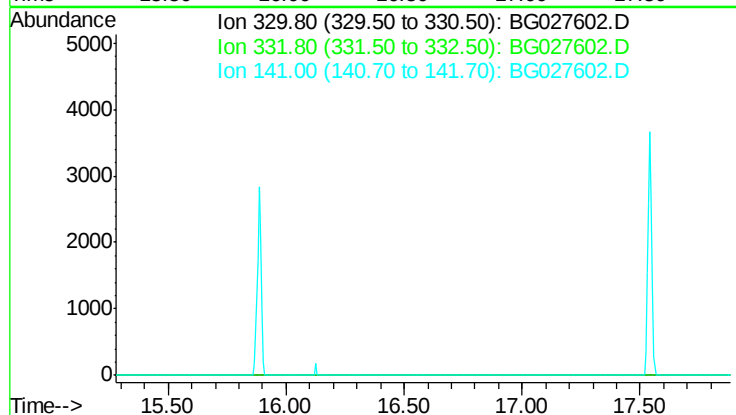




#41
 2,4,6-Tribromophenol
 Concen: 0.00 ng
 Expected RT: 16.58 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

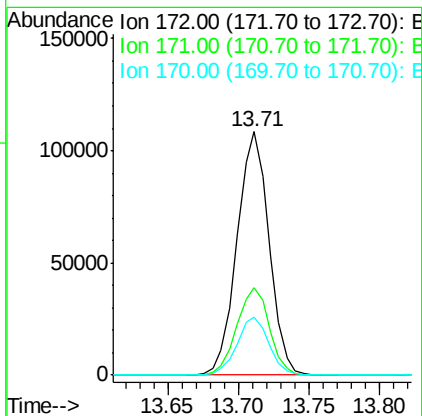
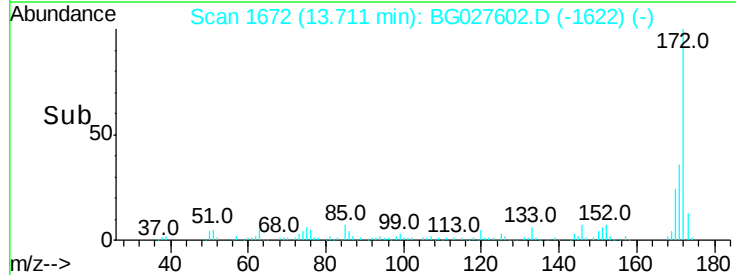
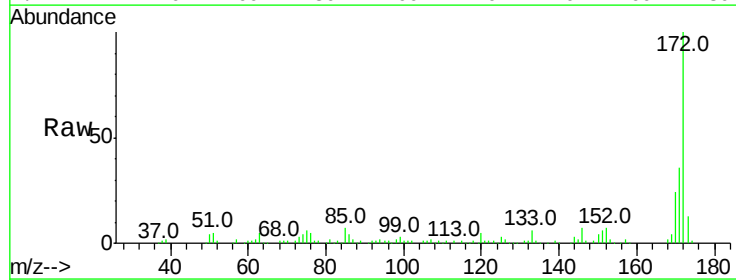
Instrument :
 BNA_G
 ClientSampleId :

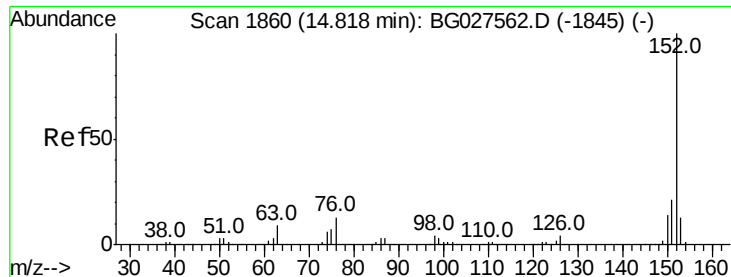
Tot Ion: 330
 Sig Exp Ratio
 330 100
 332 96.6
 141 40.1



#44
 2-Fluorobiphenyl
 Concen: 41.29 ng
 RT: 13.71 min Scan# 1672
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

Tgt Ion: 172 Resp: 171167
 Ion Ratio Lower Upper
 172 100
 171 36.2 32.2 48.2
 170 23.8 21.8 32.6





#48

Acenaphthylene

Concen: 37.12 ng

RT: 14.82 min Scan# 1860

Delta R.T. -0.00 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

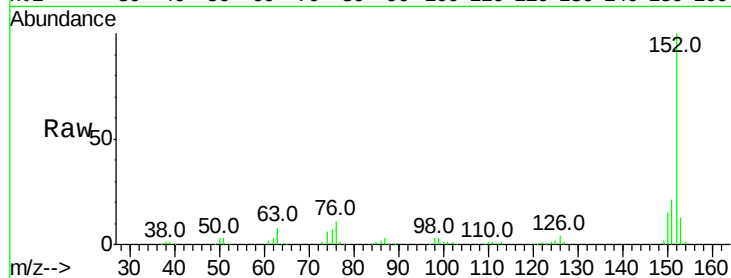
Instrument :

BNA_G

ClientSampleId :

Tot Ion:152 Resp: 228399

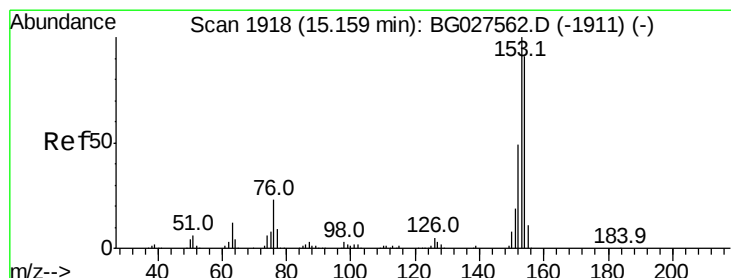
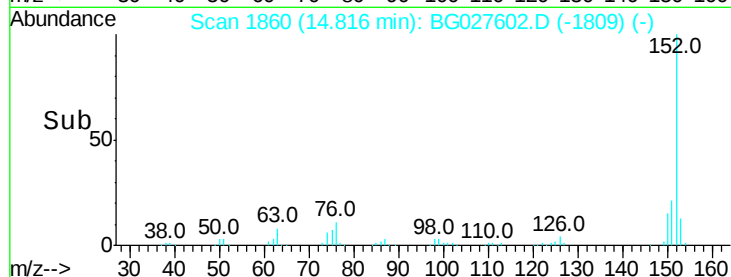
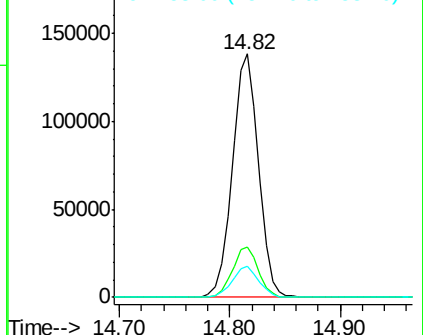
Ion	Ratio	Lower	Upper
152	100		
151	20.5	18.2	27.2
153	13.0	11.3	16.9



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



#51

Acenaphthene

Concen: 33.63 ng

RT: 15.15 min Scan# 1917

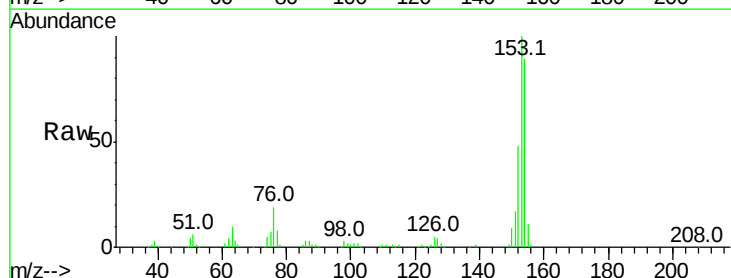
Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Tgt Ion:154 Resp: 144168

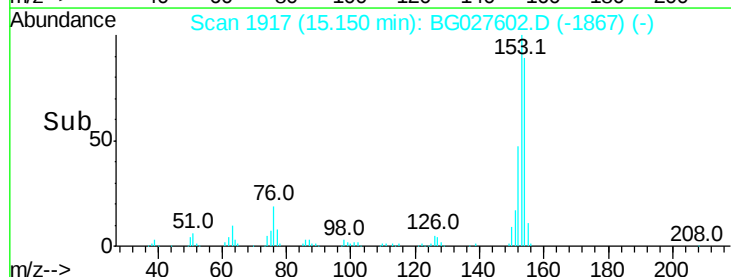
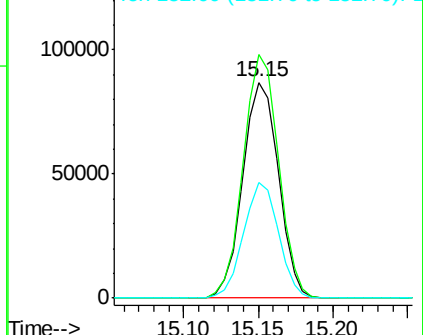
Ion	Ratio	Lower	Upper
154	100		
153	112.9	87.8	131.6
152	53.7	42.2	63.4

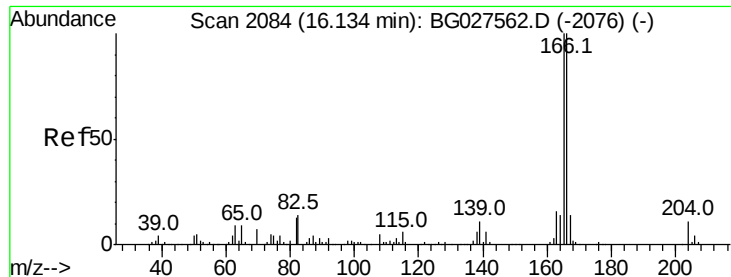


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

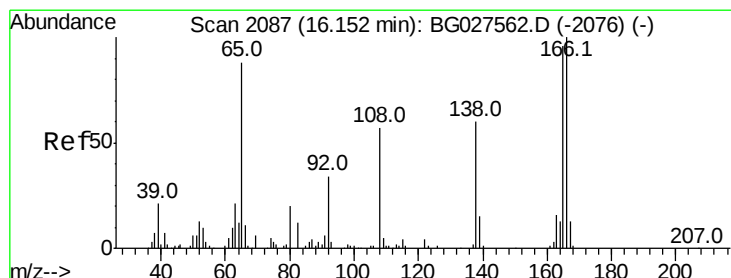
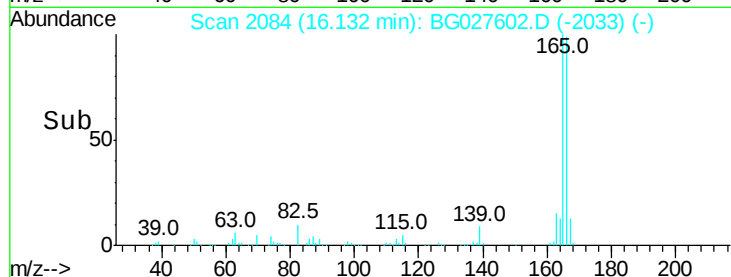
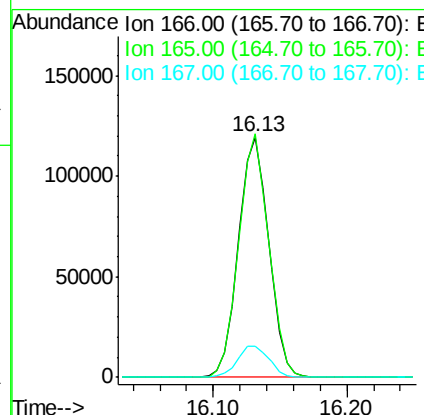
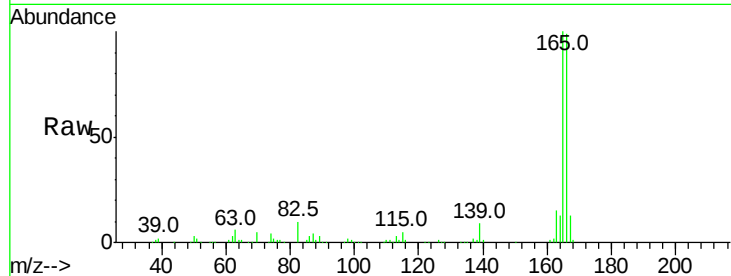




#57
Fluorene
 Concen: 35.65 ng
 RT: 16.13 min Scan# 2084
 Delta R.T. -0.00 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

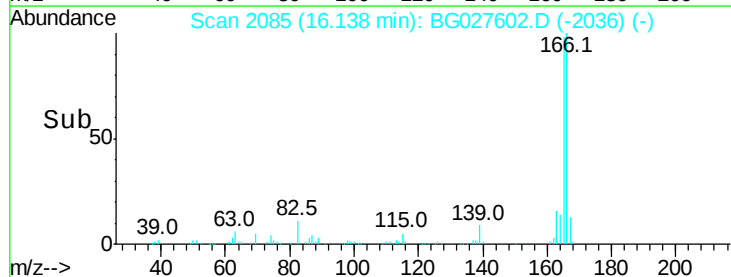
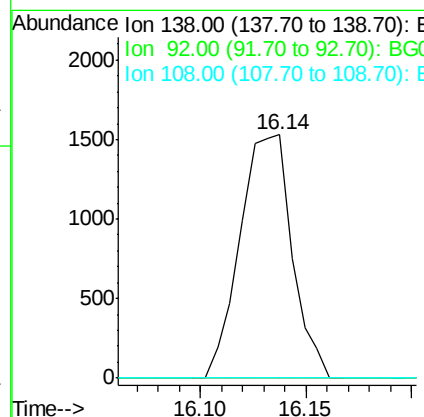
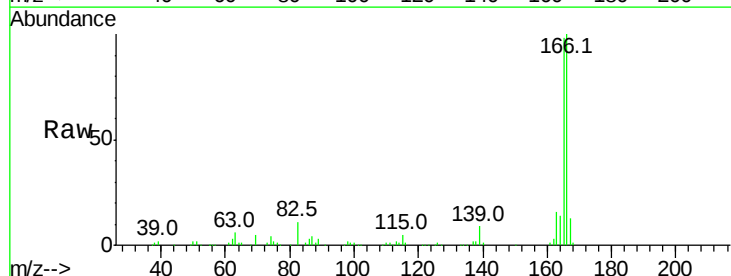
Instrument :
 BNA_G
 ClientSampleId :

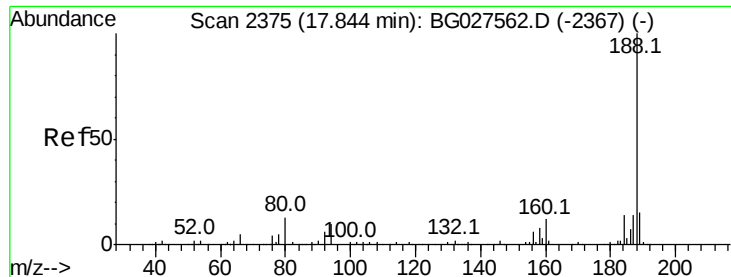
Tot Ion	Ratio	Lower	Upper
166	100		
165	101.3	78.6	117.8
167	13.2	11.6	17.4



#61
4-Nitroaniline
 Concen: 2.10 ng
 RT: 16.14 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

Tgt Ion	Ratio	Lower	Upper
138	100		
92	0.0	44.2	84.2#
108	0.0	104.8	144.8#

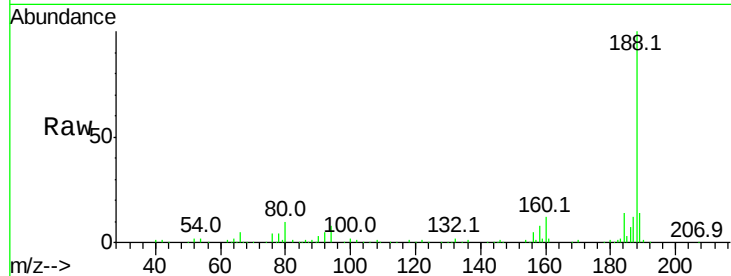




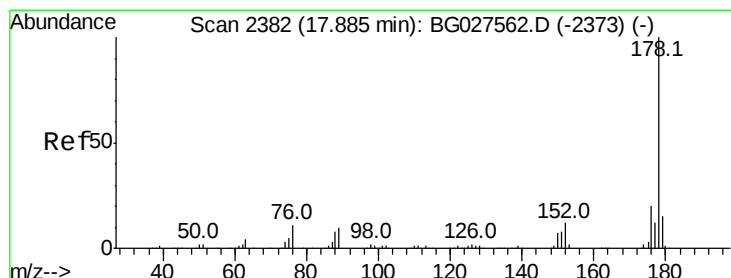
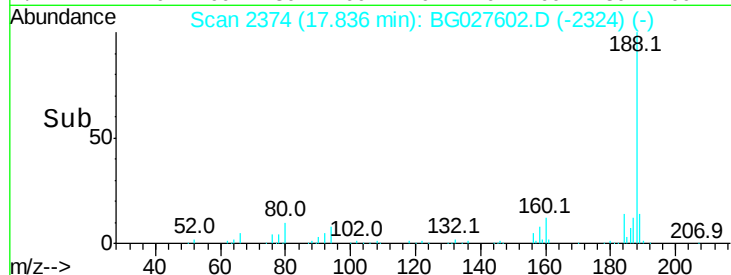
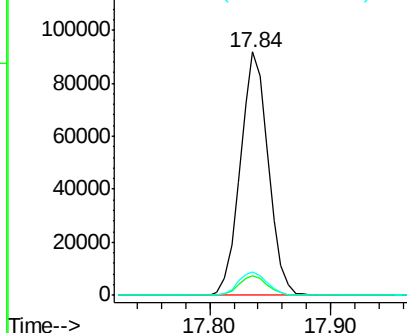
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.84 min Scan# 2374
Delta R.T. -0.01 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Instrument :
BNA_G
ClientSampleId :

Tot Ion:188 Resp: 147859
Ion Ratio Lower Upper
188 100
94 8.3 5.8 8.8
80 9.7 7.5 11.3

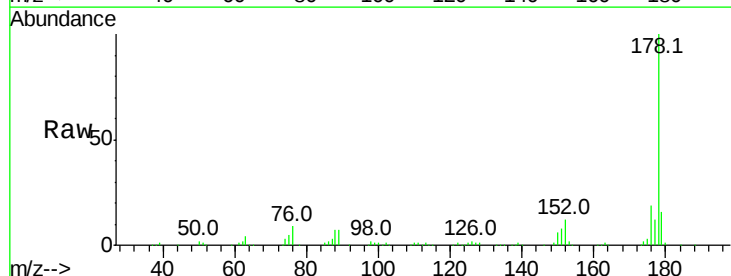


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC

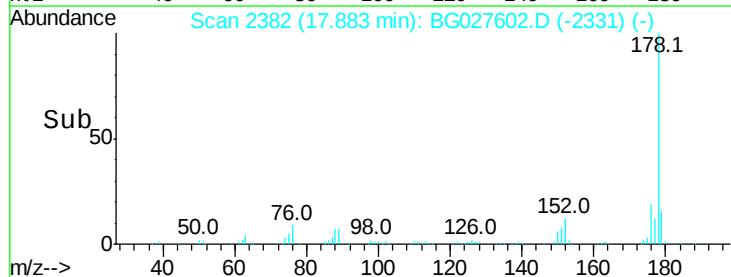
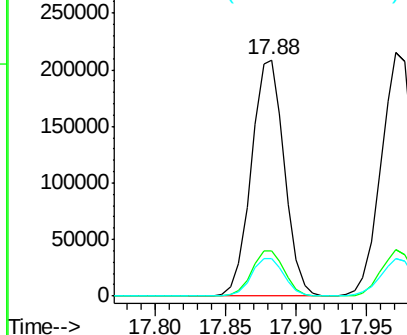


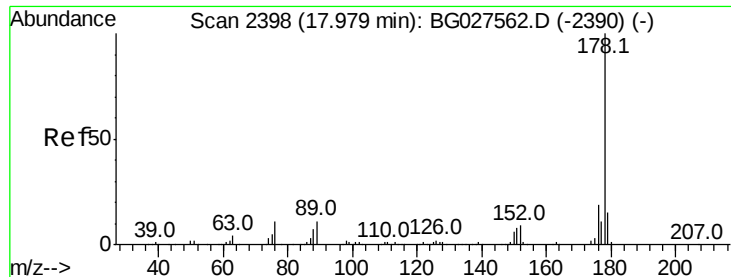
#70
Phenanthrene
Concen: 40.65 ng
RT: 17.88 min Scan# 2382
Delta R.T. -0.00 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Tgt Ion:178 Resp: 341915
Ion Ratio Lower Upper
178 100
176 19.1 17.7 26.5
179 15.7 15.0 22.6



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

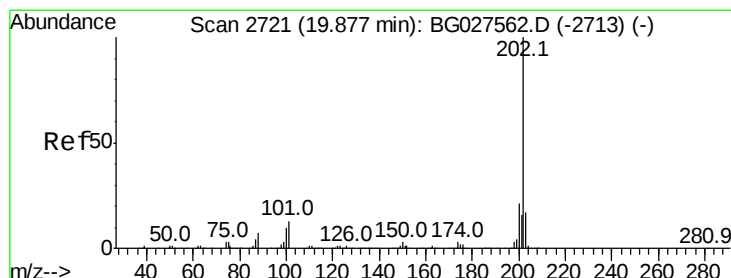
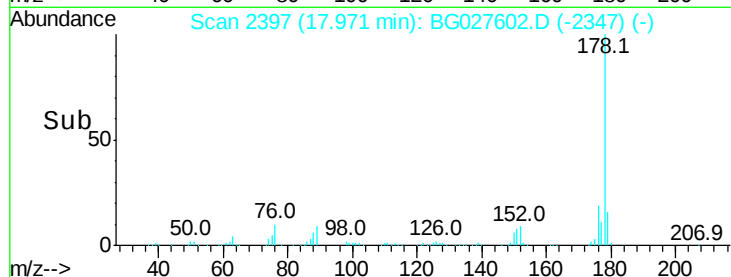
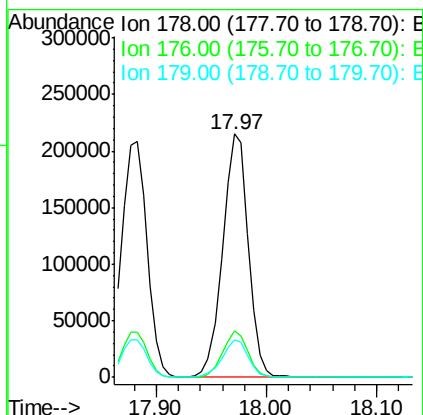
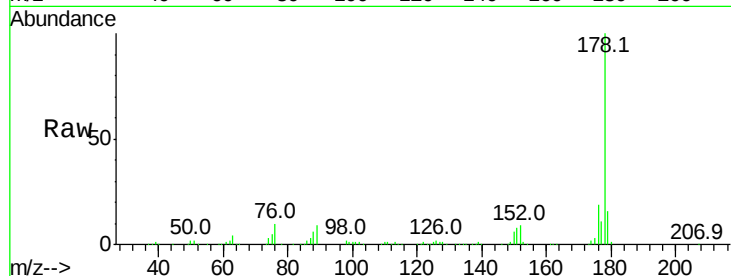




#71
 Anthracene
 Concen: 41.21 ng
 RT: 17.97 min Scan# 2397
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

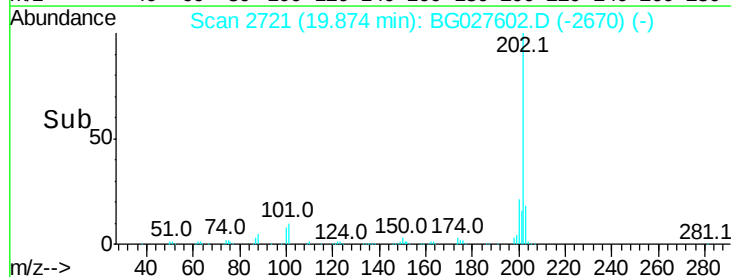
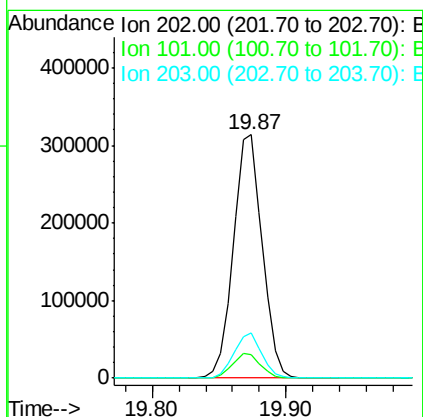
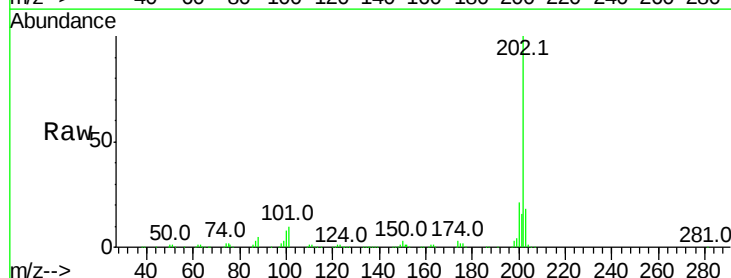
Instrument :
 BNA_G
 ClientSampled :

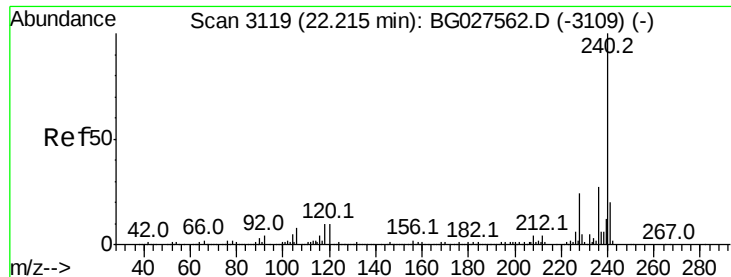
Tot Ion:178 Resp: 348995
 Ion Ratio Lower Upper
 178 100
 176 19.1 16.4 24.6
 179 15.6 13.8 20.8



#74
 Fluoranthene
 Concen: 47.83 ng
 RT: 19.87 min Scan# 2721
 Delta R.T. -0.00 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

Tgt Ion:202 Resp: 468747
 Ion Ratio Lower Upper
 202 100
 101 9.6 0.0 30.1
 203 18.4 1.3 41.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 22.21 min Scan# 3118

Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Instrument :

BNA_G

ClientSampled :

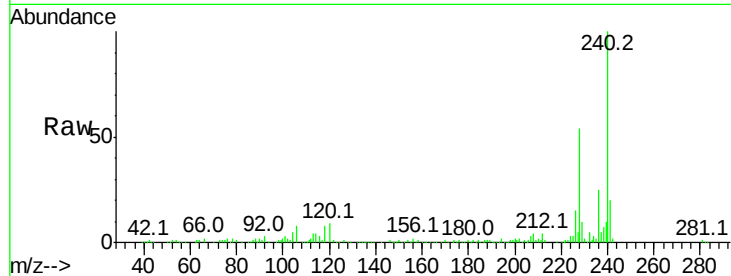
Tot Ion:240 Resp: 199075

Ion Ratio Lower Upper

240 100

120 9.5 5.7 8.5#

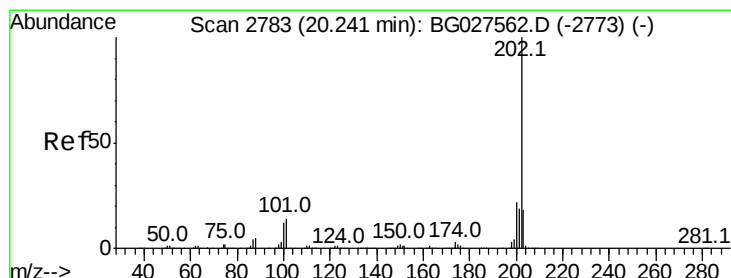
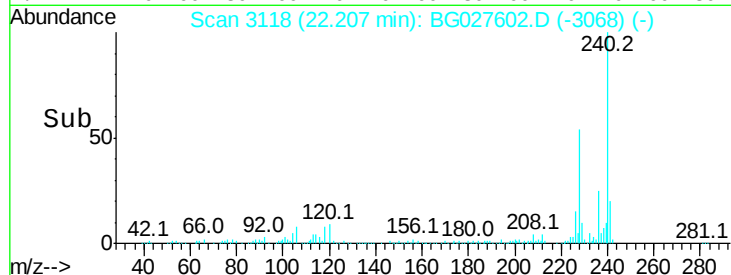
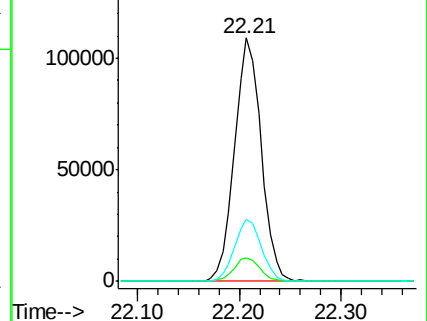
236 25.4 22.2 33.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 39.76 ng

RT: 20.23 min Scan# 2782

Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

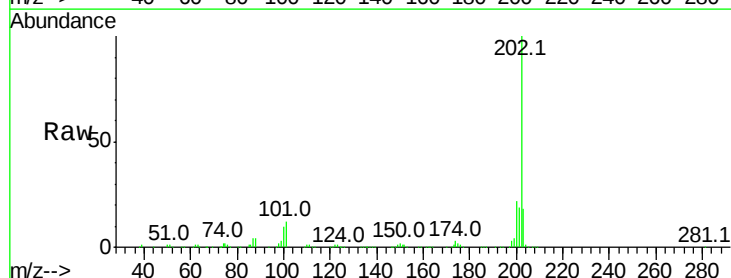
Tgt Ion:202 Resp: 481099

Ion Ratio Lower Upper

202 100

200 21.7 19.6 29.4

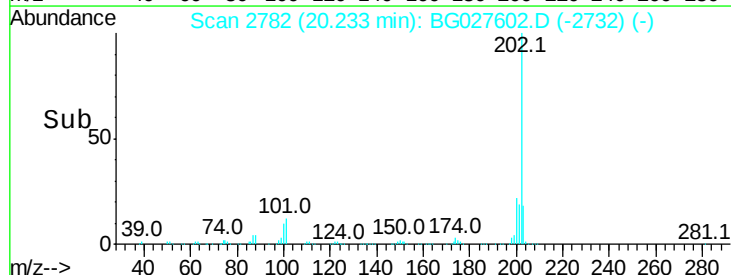
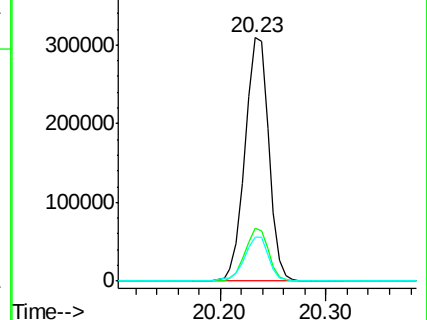
203 18.1 15.8 23.8

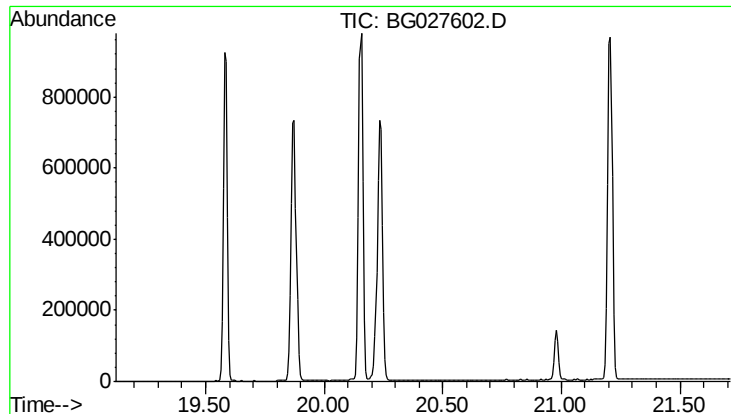


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 0.00 ng

Expected RT: 20.42 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Instrument :

BNA_G

ClientSampleId :

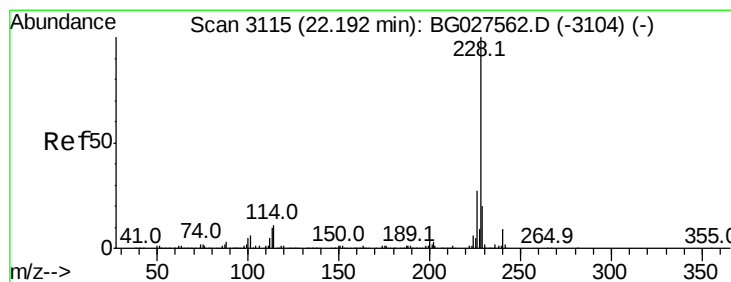
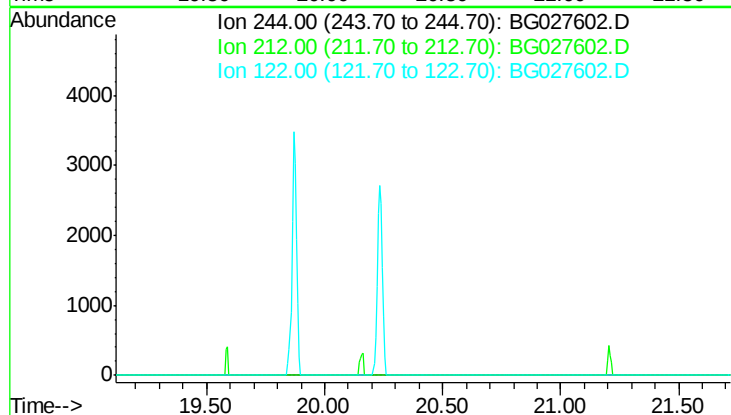
Tot Ion: 244

Sig Exp Ratio

244 100

212 12.5

122 10.7



#80

Benzo(a)anthracene

Concen: 42.36 ng

RT: 22.18 min Scan# 3114

Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

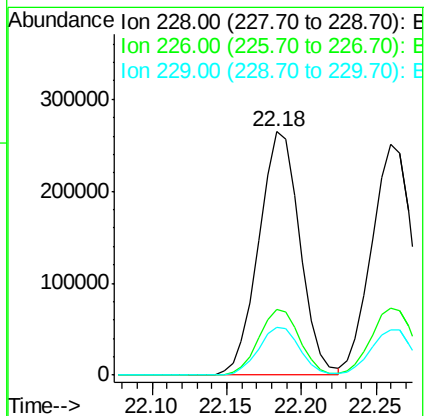
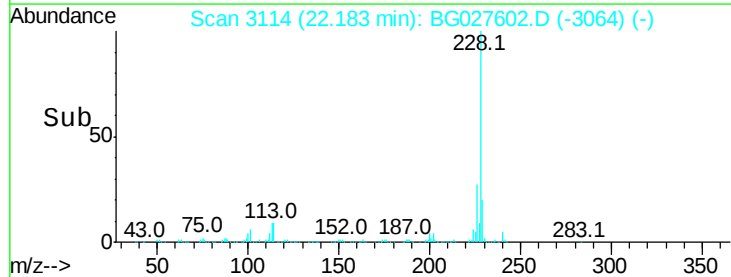
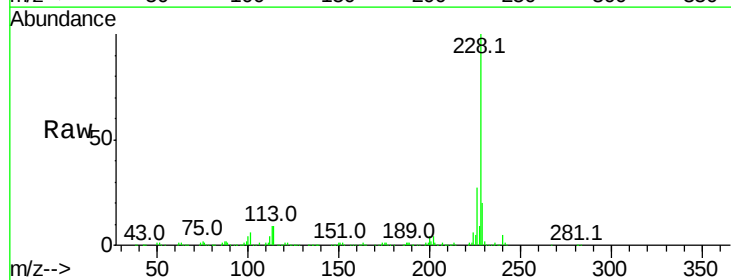
Tgt Ion: 228 Resp: 505921

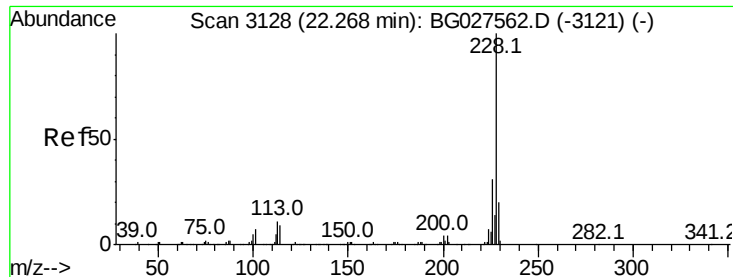
Ion Ratio Lower Upper

228 100

226 27.0 24.9 37.3

229 19.8 18.2 27.2

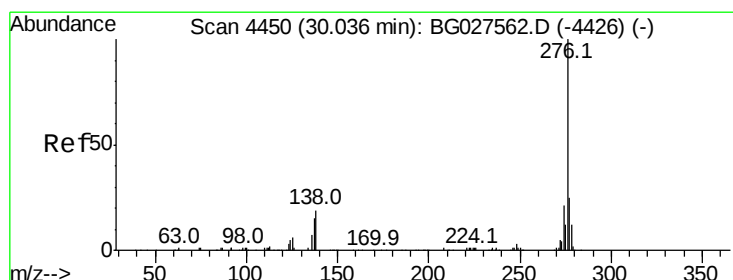
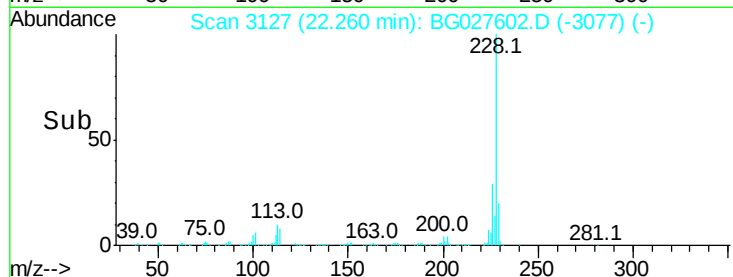
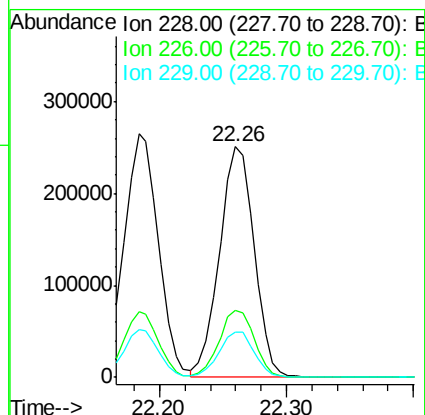
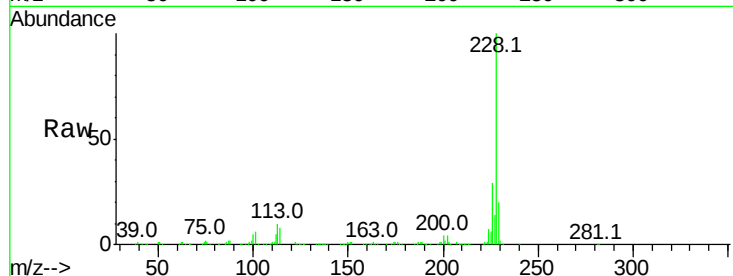




#82
 Chrysene
 Concen: 41.97 ng
 RT: 22.26 min Scan# 3127
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

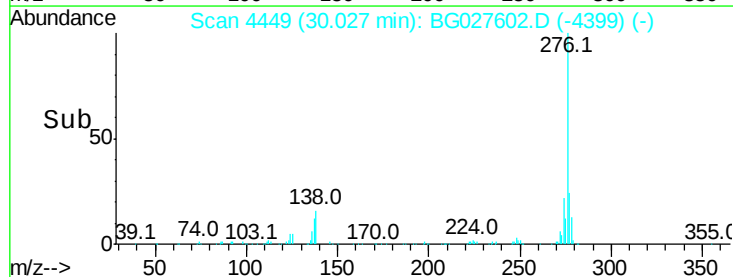
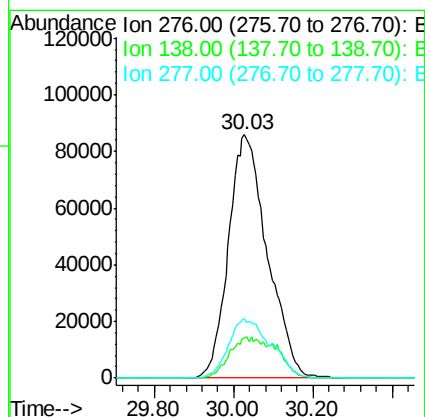
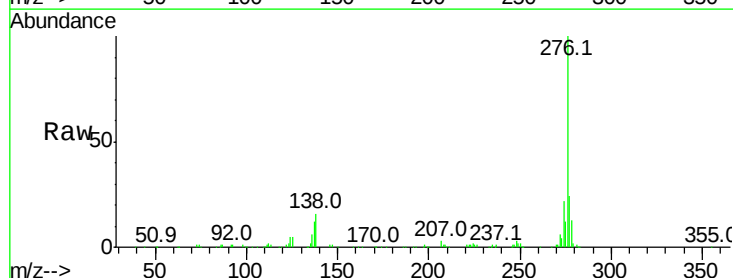
Instrument :
 BNA_G
 ClientSampleId :

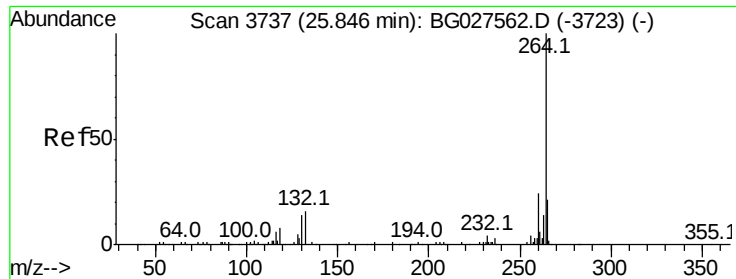
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	27.0	40.4
229	19.7	17.8	26.6



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 45.36 ng
 RT: 30.03 min Scan# 4449
 Delta R.T. -0.01 min
 Lab File: BG027602.D
 Acq: 22 Jun 2017 18:54

Tgt Ion	Ratio	Lower	Upper
276	100		
138	8.7	4.7	7.1#
277	26.5	20.6	31.0





#86

Pervlene-d12

Concen: 20.00 ng

RT: 25.84 min Scan# 3736

Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Instrument :

BNA_G

ClientSampleId :

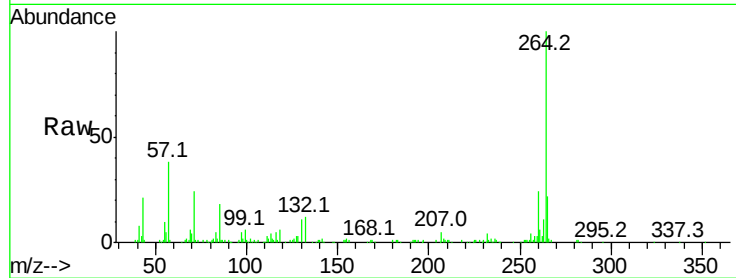
Tot Ion:264 Resp: 193880

Ion Ratio Lower Upper

264 100

260 24.1 21.8 32.8

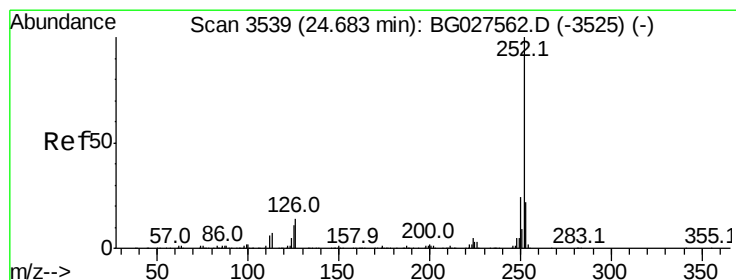
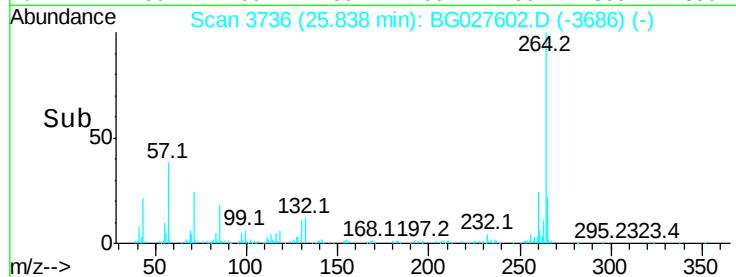
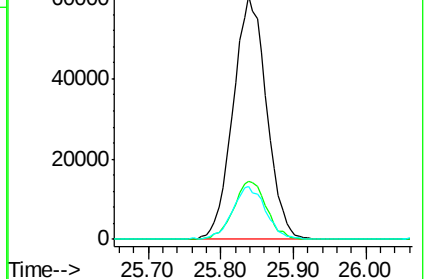
265 21.6 18.2 27.4



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: 40.87 ng

RT: 24.68 min Scan# 3539

Delta R.T. -0.00 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

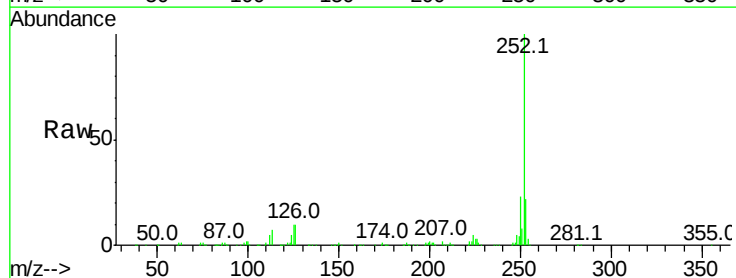
Tgt Ion:252 Resp: 506644

Ion Ratio Lower Upper

252 100

253 21.9 18.7 28.1

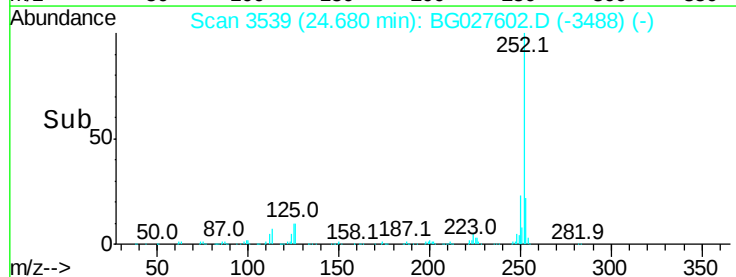
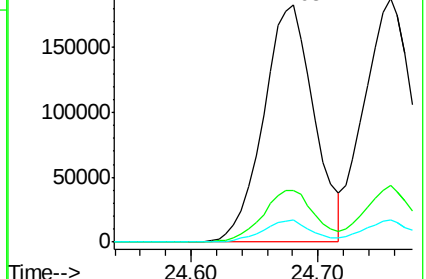
125 9.6 5.3 7.9#

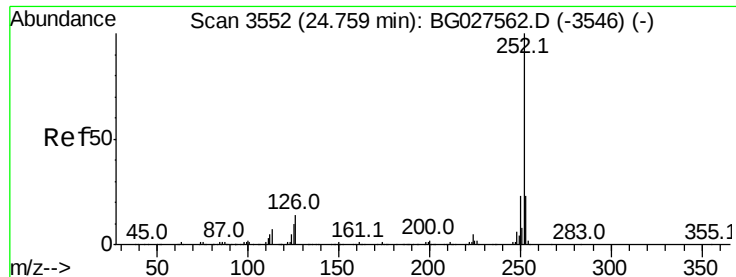


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

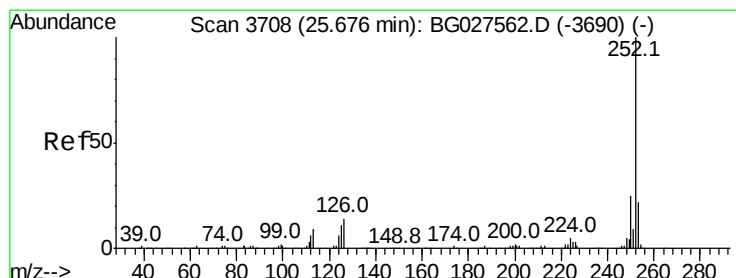
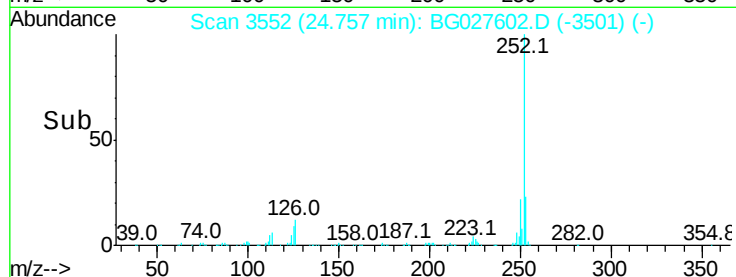
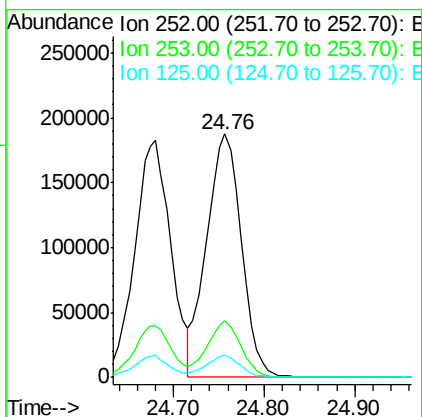
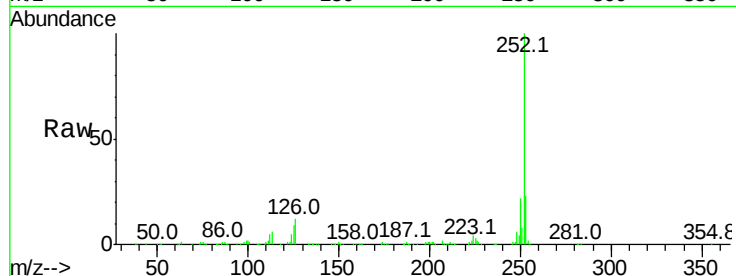




#88
Benzo(k)fluoranthene
Concen: 41.21 ng
RT: 24.76 min Scan# 3552
Delta R.T. -0.00 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

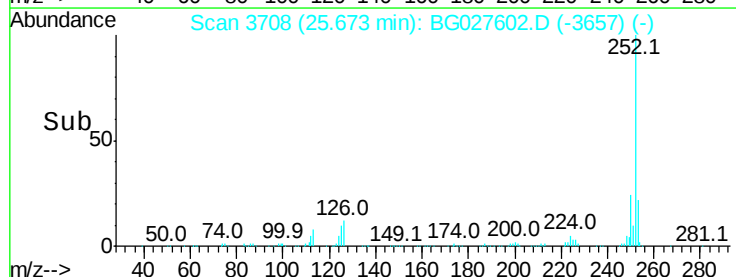
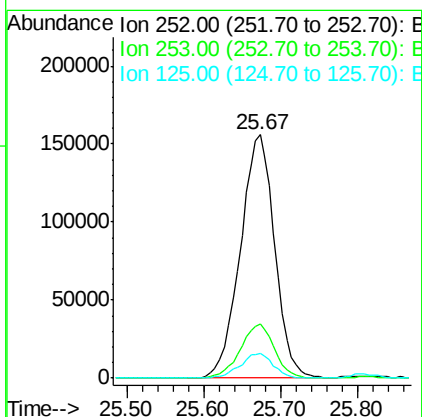
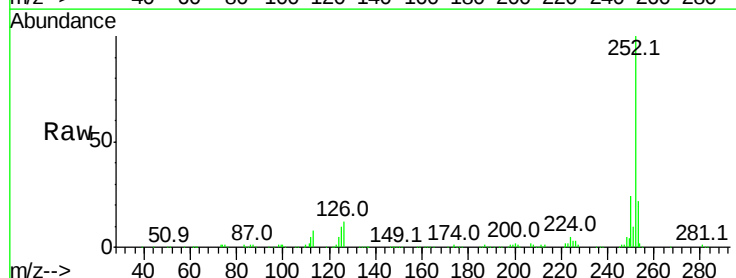
Instrument :
BNA_G
ClientSampleId :

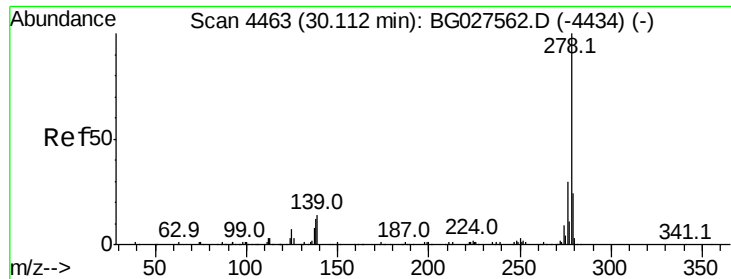
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	20.2	30.2
125	9.3	5.1	7.7#



#89
Benzo(a)pyrene
Concen: 41.51 ng
RT: 25.67 min Scan# 3708
Delta R.T. -0.00 min
Lab File: BG027602.D
Acq: 22 Jun 2017 18:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.2	28.8
125	10.3	5.4	8.0#





#90

Dibenzo(a,h)anthracene

Concen: 41.73 ng

RT: 30.10 min Scan# 4462

Delta R.T. -0.01 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

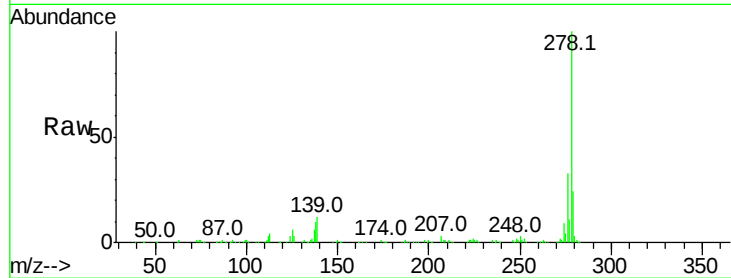
Instrument :

BNA_G

ClientSampled :

Tot Ion:278 Resp: 497189

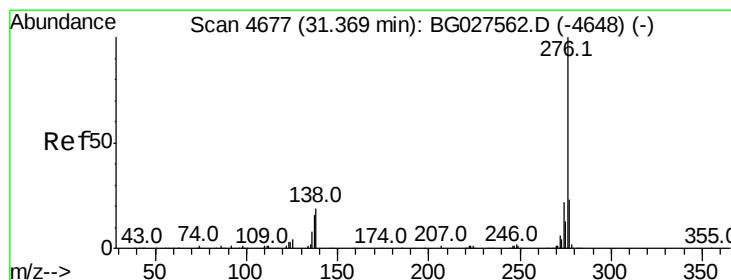
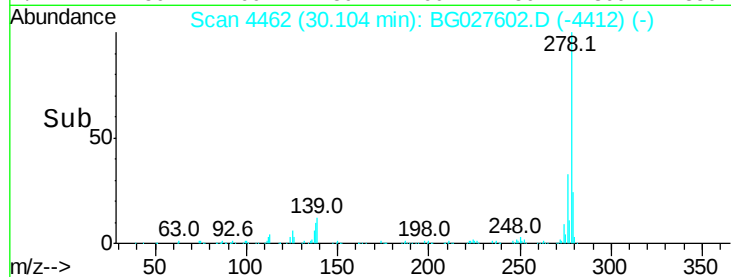
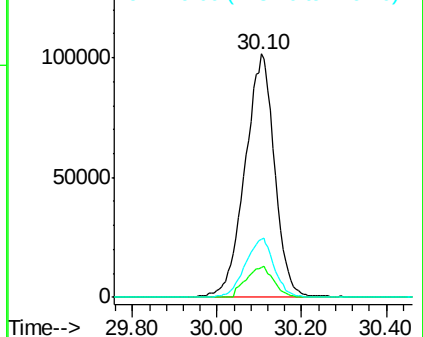
Ion	Ratio	Lower	Upper
278	100		
139	12.2	7.7	11.5#
279	23.6	19.1	28.7



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



#91

Benzo(g,h,i)perylene

Concen: 41.35 ng

RT: 31.34 min Scan# 4673

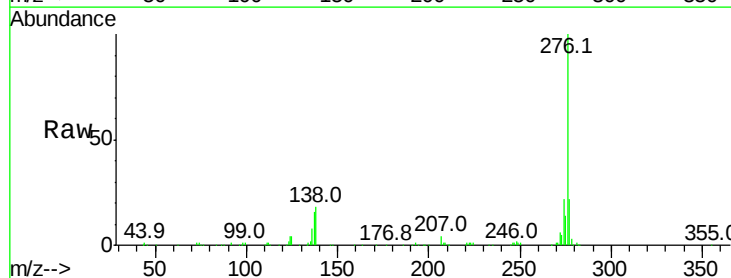
Delta R.T. -0.03 min

Lab File: BG027602.D

Acq: 22 Jun 2017 18:54

Tgt Ion:276 Resp: 478561

Ion	Ratio	Lower	Upper
276	100		
277	22.2	18.6	27.8
138	17.5	8.1	12.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

