

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030116\
 Data File : BG021194.D
 Acq On : 1 Mar 2016 21:44
 Operator : UM/SJ
 Sample : H1578-04
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CEB-8(2.5-5)20160224

Quant Time: Mar 01 23:56:50 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 29 17:40:25 2016
 Response via : Initial Calibration

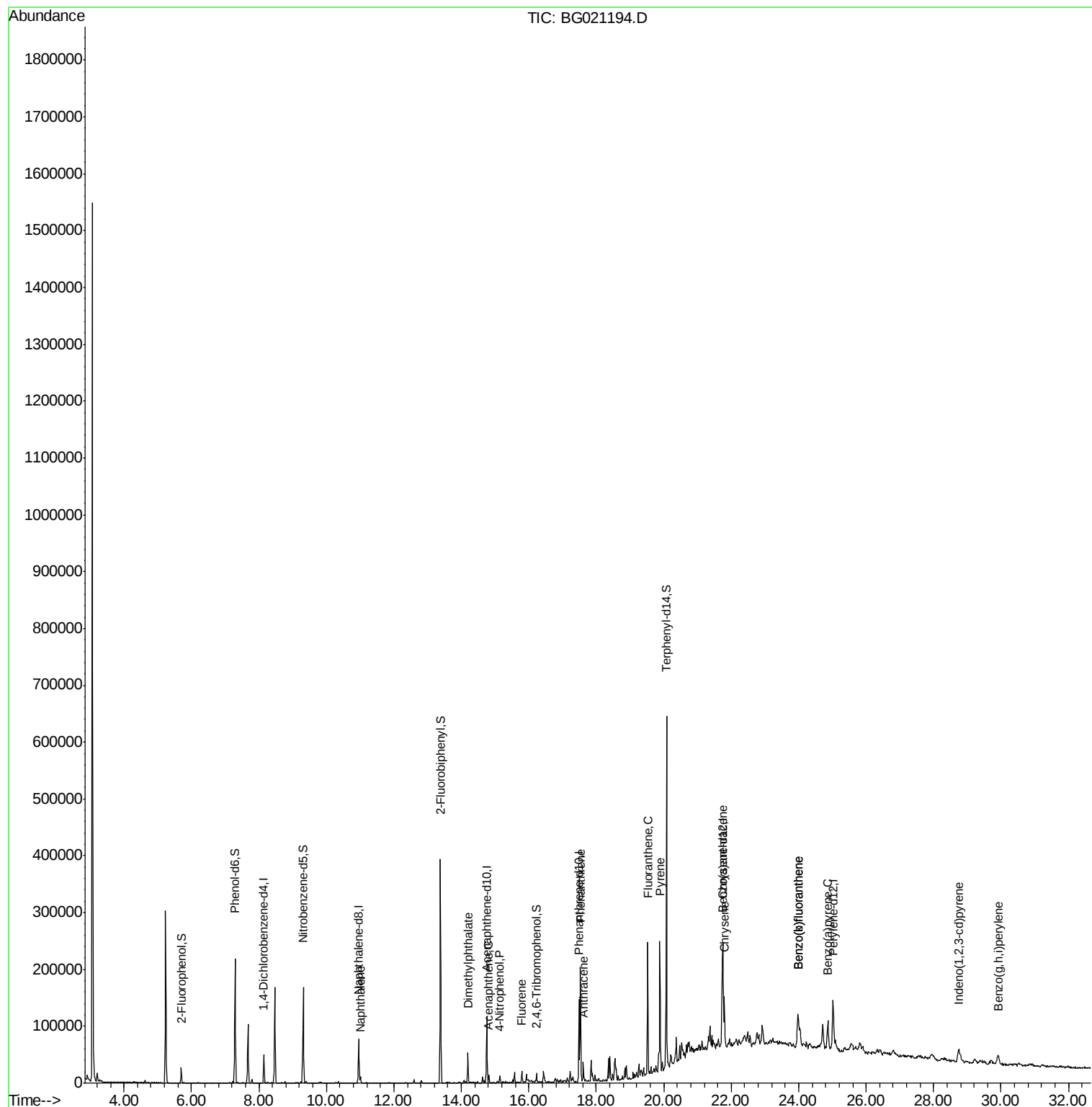
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.15	152	12251	20.00	ng	-0.01
21) Naphthalene-d8	10.96	136	60158	20.00	ng	-0.01
38) Acenaphthene-d10	14.75	164	37376	20.00	ng	-0.01
63) Phenanthrene-d10	17.49	188	81240	20.00	ng	-0.01
75) Chrysene-d12	21.75	240	82910	20.00	ng	-0.02
86) Perylene-d12	25.02	264	78529	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	10585	13.74	ng	-0.01
7) Phenol-d6	7.29	99	116807	92.18	ng	0.00
23) Nitrobenzene-d5	9.31	82	107254	75.44	ng	-0.01
41) 2,4,6-Tribromophenol	16.23	330	1926	4.95	ng	-0.01
44) 2-Fluorobiphenyl	13.38	172	178577	67.85	ng	-0.01
78) Terphenyl-d14	20.08	244	229736	67.13	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	11.01	128	8974	2.86	ng	99
49) Dimethylphthalate	14.20	163	29995	9.01	ng	99
51) Acenaphthene	14.82	154	5395	2.18	ng	90
55) 4-Nitrophenol	15.15	139	2366	3.69	ng	# 7
57) Fluorene	15.79	166	8359	2.65	ng	# 96
70) Phenanthrene	17.53	178	112343	25.62	ng	99
71) Anthracene	17.62	178	20915	4.66	ng	99
74) Fluoranthene	19.53	202	129550	25.15	ng	98
77) Pyrene	19.89	202	132558	26.80	ng	98
80) Benzo(a)anthracene	21.73	228	60663	12.36	ng	99
82) Chrysene	21.80	228	59105	12.71	ng	99
85) Indeno(1,2,3-cd)pyrene	28.75	276	30432	5.71	ng	# 100
87) Benzo(b)fluoranthene	23.98	252	63699	12.90	ng	# 92
88) Benzo(k)fluoranthene	23.98	252	63699	12.88	ng	# 92
89) Benzo(a)pyrene	24.86	252	52227	10.94	ng	# 96
91) Benzo(g,h,i)perylene	29.92	276	29991	6.57	ng	# 87

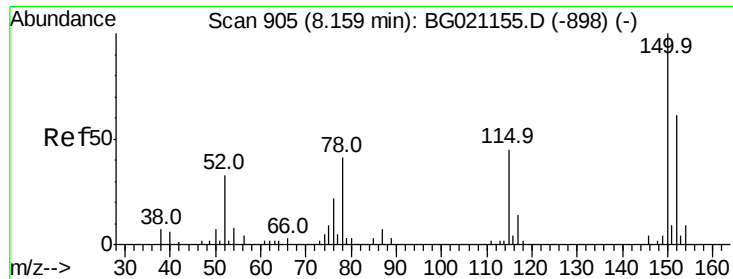
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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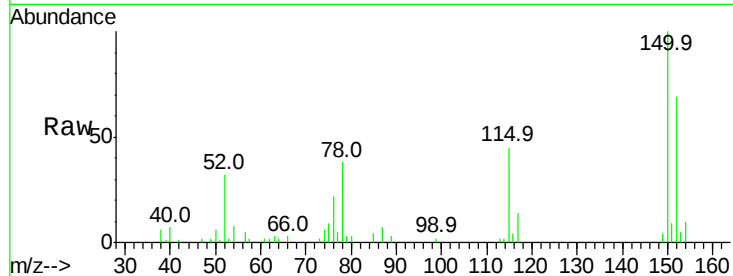


#1

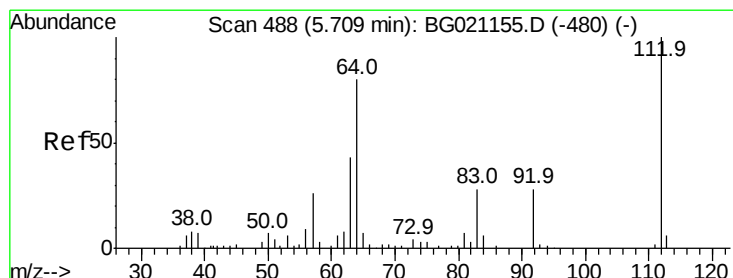
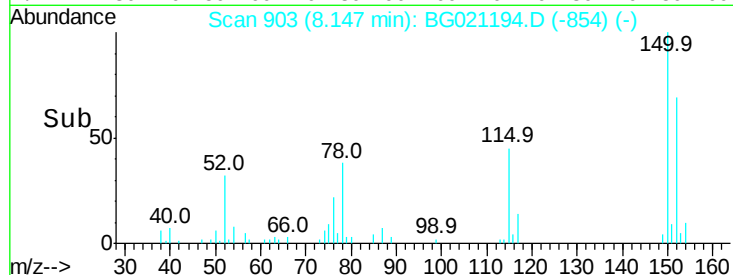
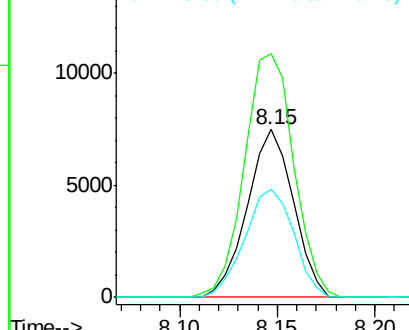
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.15 min Scan# 903
Delta R.T. -0.01 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Instrument :
BNA_G
ClientSampleId :
CEB-8(2.5-5)20160224

Tot Ion:152 Resp: 12251
Ion Ratio Lower Upper
152 100
150 145.2 123.4 185.2
115 64.6 43.3 64.9



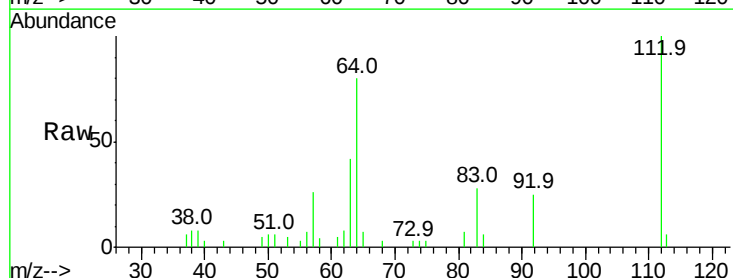
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



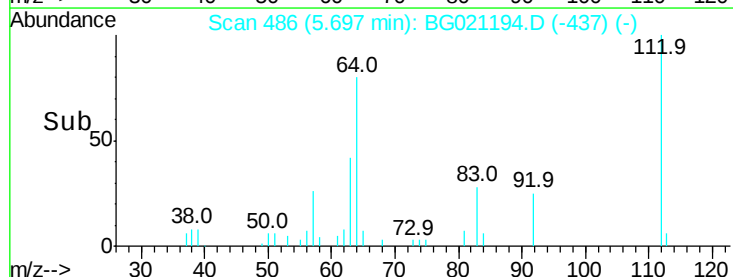
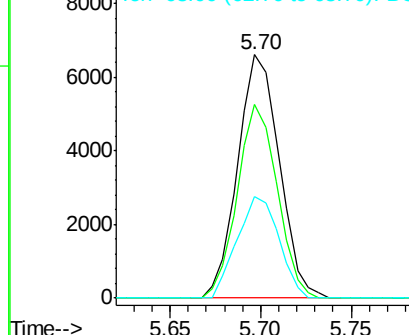
#5

2-Fluorophenol
Concen: 13.74 ng
RT: 5.70 min Scan# 486
Delta R.T. -0.01 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Tgt Ion:112 Resp: 10585
Ion Ratio Lower Upper
112 100
64 79.8 42.6 63.8#
63 41.5 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: 92.18 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

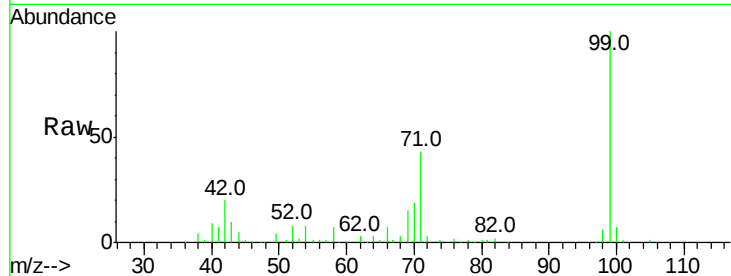
Tot Ion: 99 Resp: 116807

Ion Ratio Lower Upper

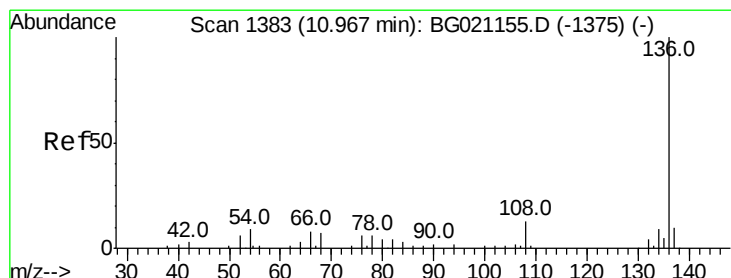
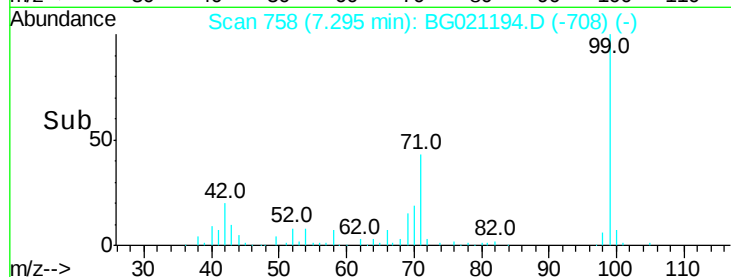
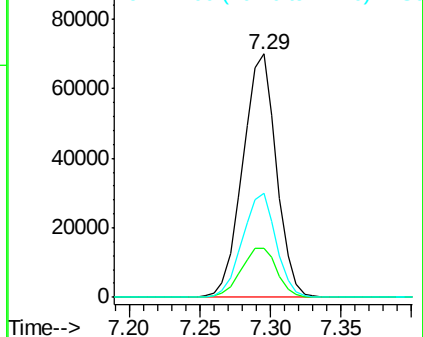
99 100

42 20.4 13.2 19.8#

71 42.5 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: 10.96 min Scan# 1381

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Tgt Ion: 136 Resp: 60158

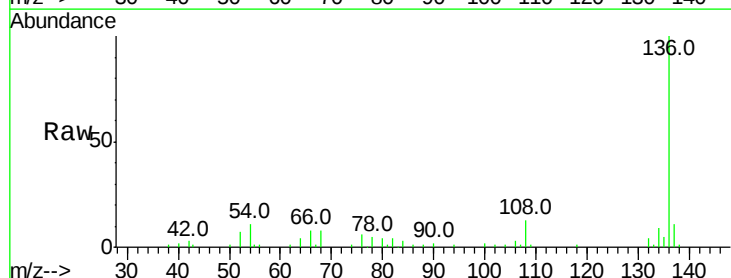
Ion Ratio Lower Upper

136 100

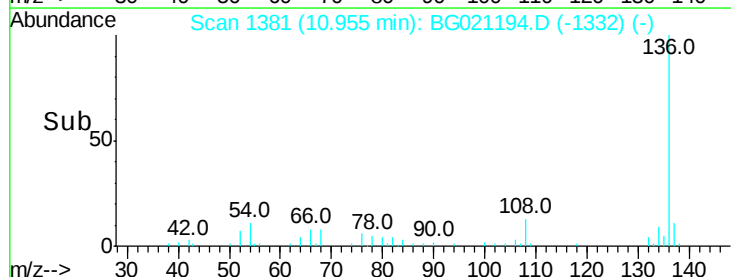
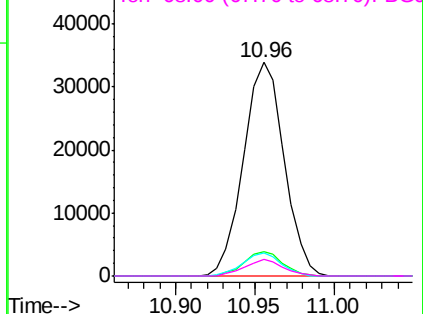
137 11.4 8.8 13.2

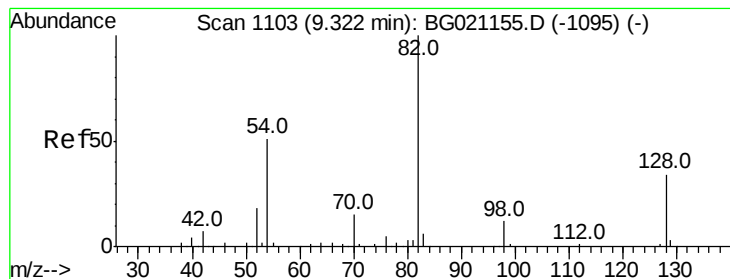
54 10.7 6.9 10.3#

68 7.7 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: 75.44 ng

RT: 9.31 min Scan# 1101

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

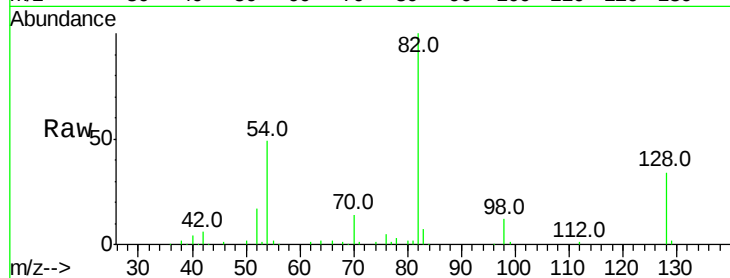
Tot Ion: 82 Resp: 107254

Ion Ratio Lower Upper

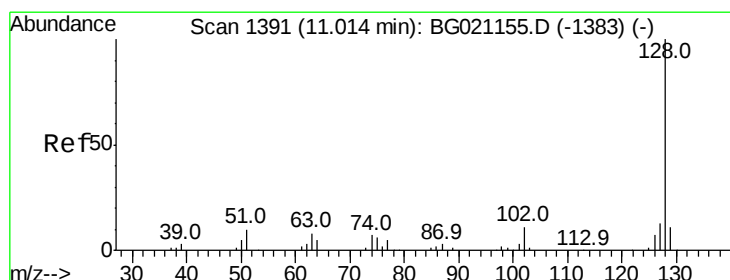
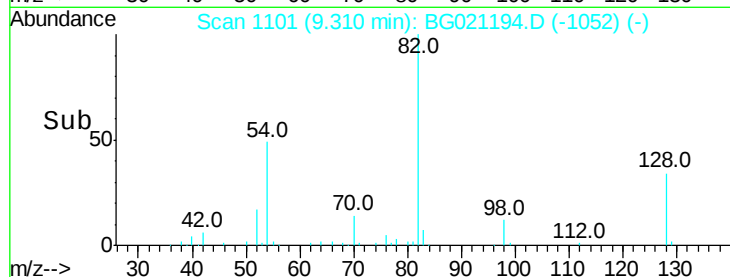
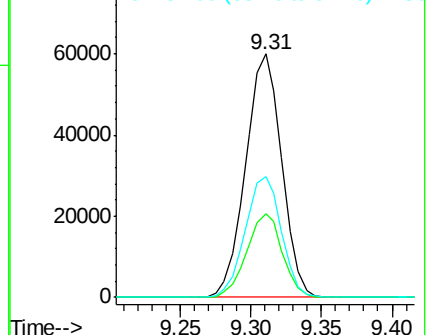
82 100

128 34.3 36.3 54.5#

54 49.4 37.6 56.4



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



#31

Naphthalene

Concen: 2.86 ng

RT: 11.01 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

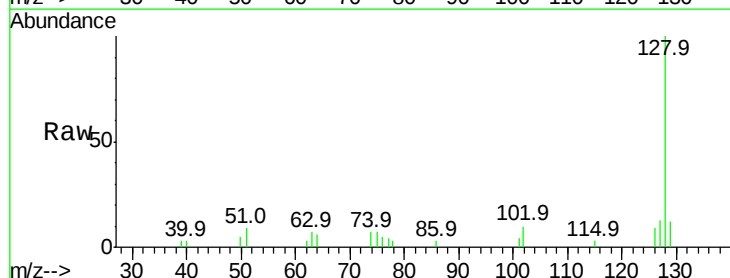
Tgt Ion: 128 Resp: 8974

Ion Ratio Lower Upper

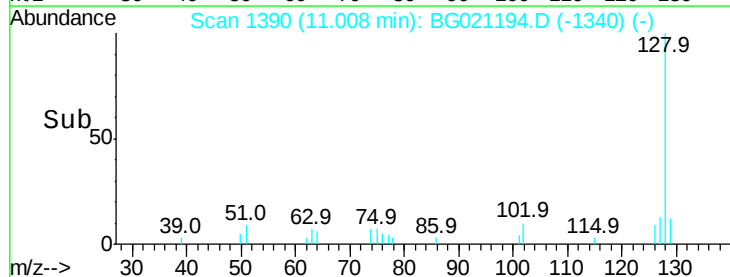
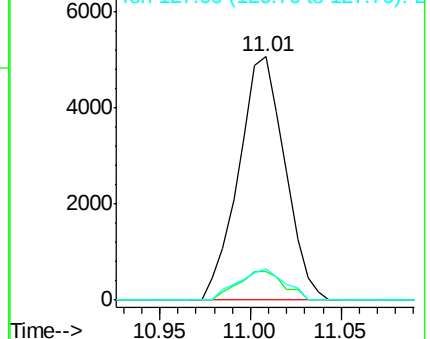
128 100

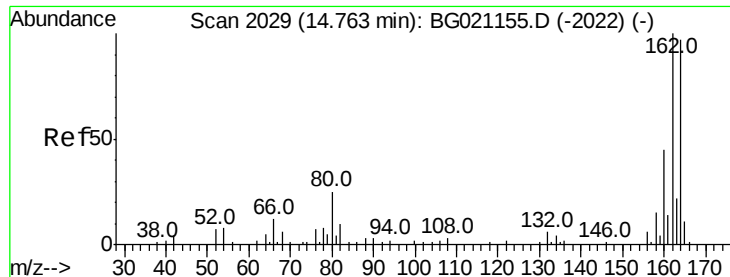
129 11.7 9.4 14.2

127 12.7 10.8 16.2



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.75 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

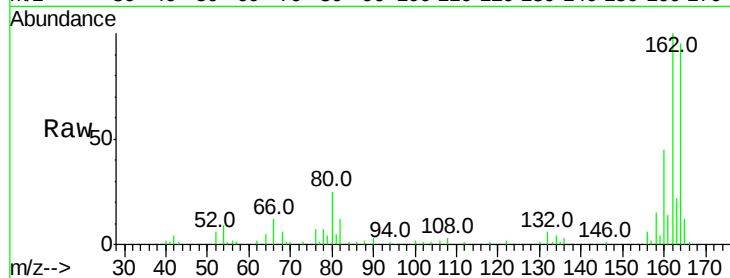
Tot Ion:164 Resp: 37376

Ion Ratio Lower Upper

164 100

162 105.7 80.6 120.8

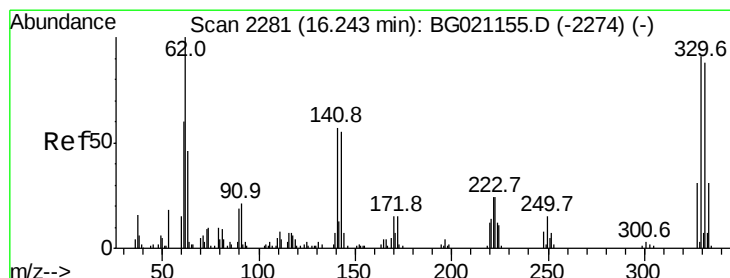
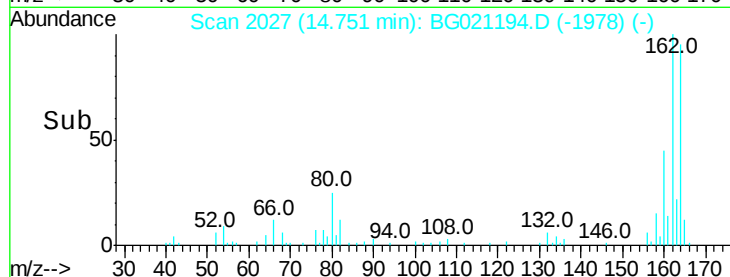
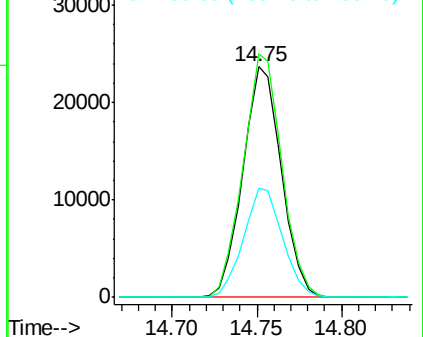
160 47.5 36.5 54.7



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: 4.95 ng

RT: 16.23 min Scan# 2279

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

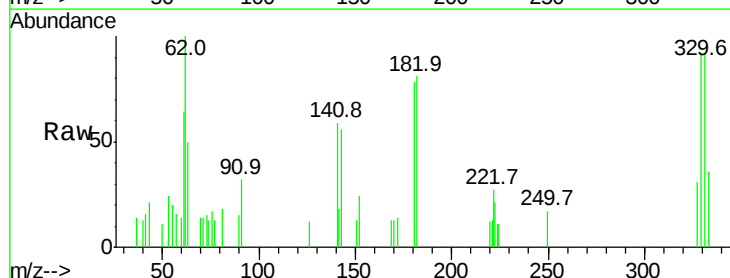
Tgt Ion:330 Resp: 1926

Ion Ratio Lower Upper

330 100

332 97.9 77.4 116.0

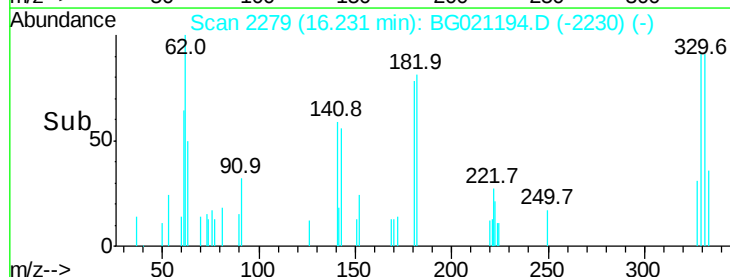
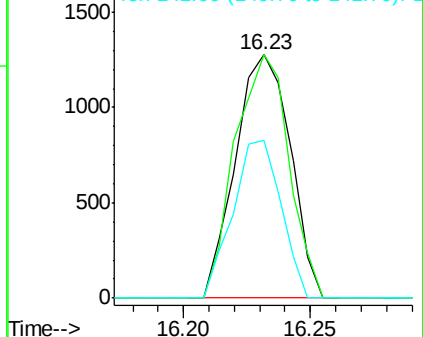
141 56.6 35.3 52.9#

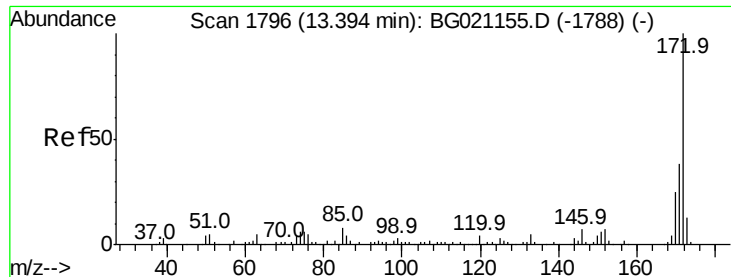


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

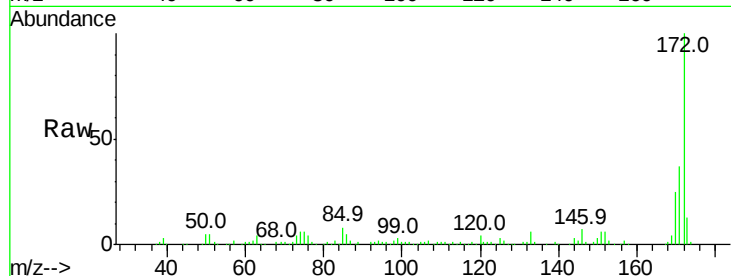




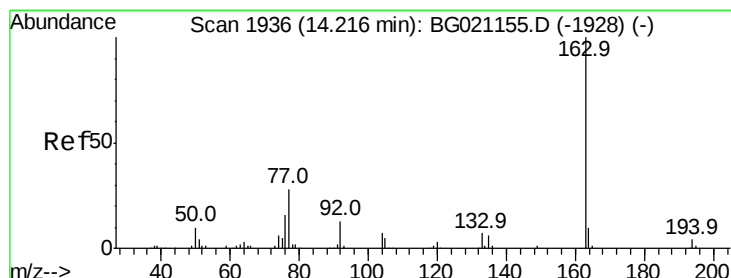
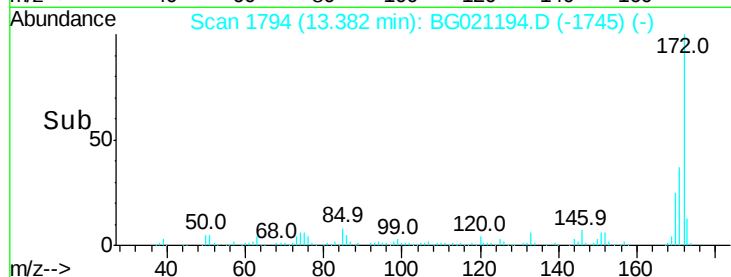
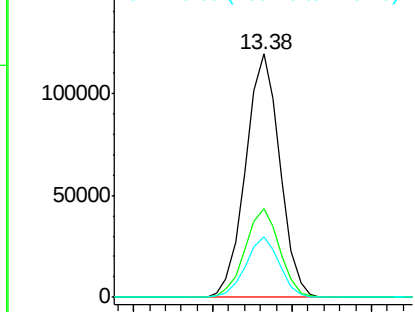
#44
2-Fluorobiphenyl
Concen: 67.85 ng
RT: 13.38 min Scan# 1794
Delta R.T. -0.01 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Instrument :
BNA_G
ClientSampleId :
CEB-8(2.5-5)20160224

Tot Ion:172 Resp: 178577
Ion Ratio Lower Upper
172 100
171 36.6 29.4 44.0
170 24.8 19.8 29.8

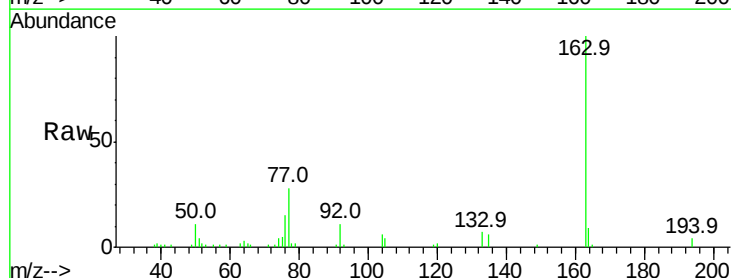


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

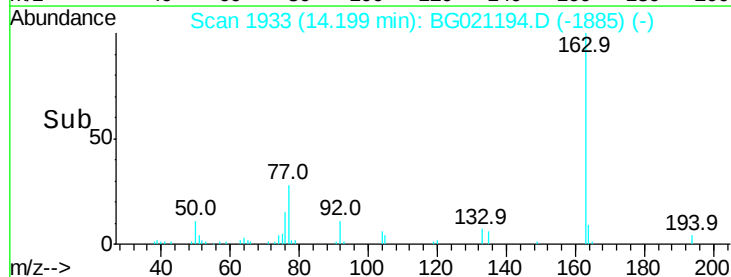
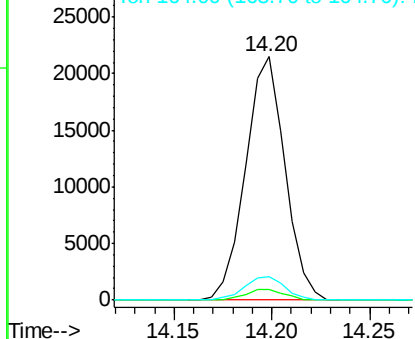


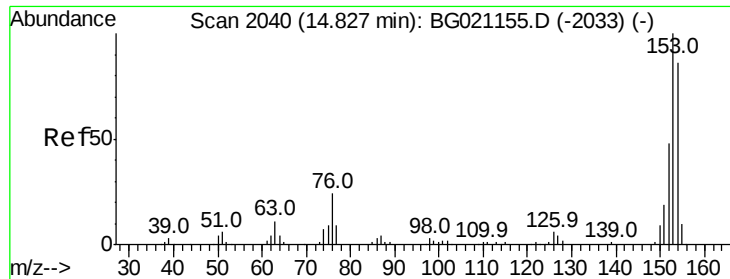
#49
Dimethylphthalate
Concen: 9.01 ng
RT: 14.20 min Scan# 1933
Delta R.T. -0.02 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Tgt Ion:163 Resp: 29995
Ion Ratio Lower Upper
163 100
194 4.1 2.8 4.2
164 9.5 7.9 11.9



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





#51

Acenaphthene

Concen: 2.18 ng

RT: 14.82 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

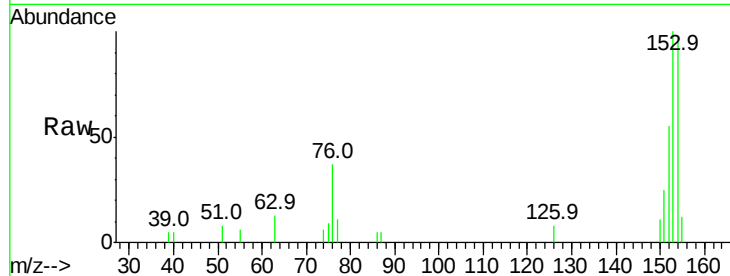
Tot Ion:154 Resp: 5395

Ion Ratio Lower Upper

154 100

153 103.5 94.2 141.2

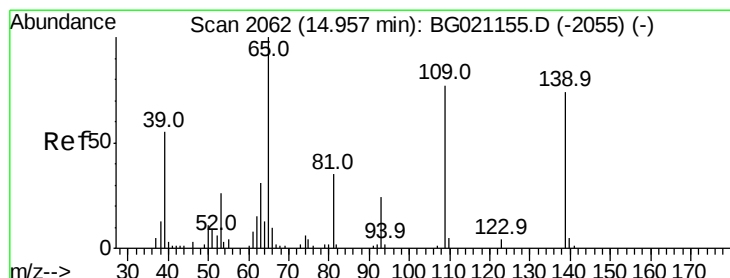
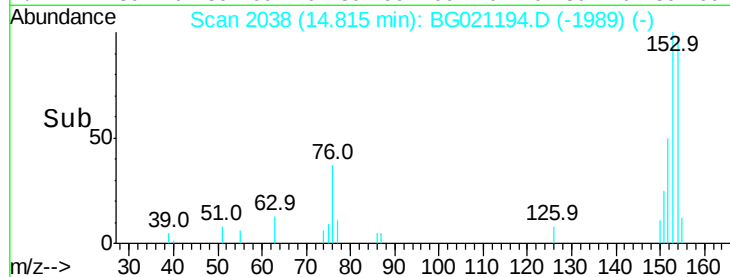
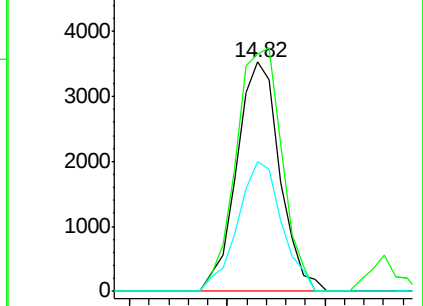
152 56.8 42.9 64.3



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



#55

4-Nitrophenol

Concen: 3.69 ng

RT: 15.15 min Scan# 2095

Delta R.T. 0.19 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

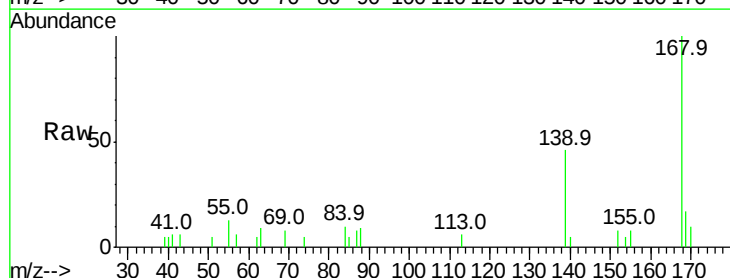
Tgt Ion:139 Resp: 2366

Ion Ratio Lower Upper

139 100

109 0.0 54.1 94.1#

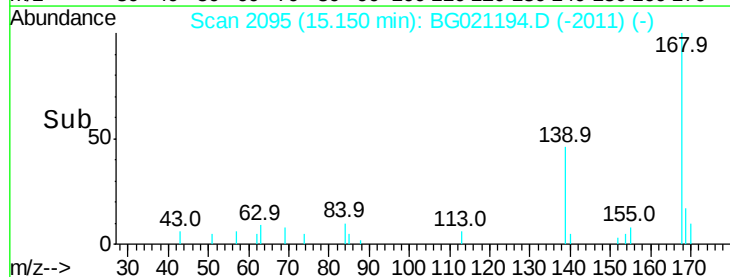
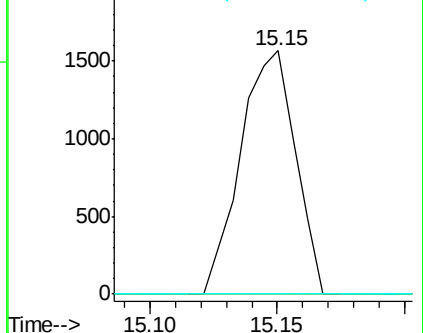
65 0.0 73.4 113.4#

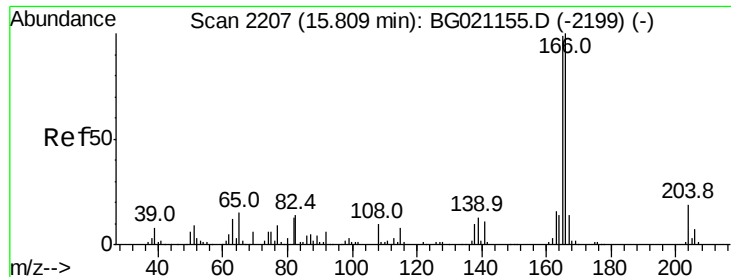


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG





#57

Fluorene

Concen: 2.65 ng

RT: 15.79 min Scan# 2204

Delta R.T. -0.02 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

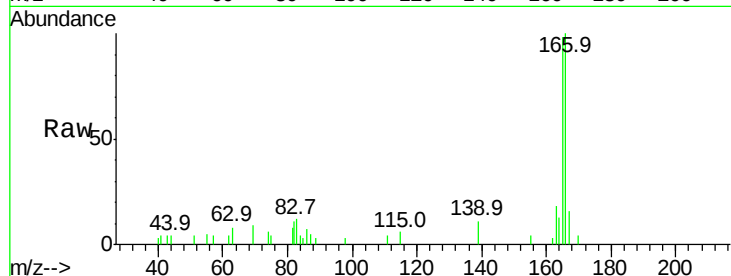
Tot Ion:166 Resp: 8359

Ion Ratio Lower Upper

166 100

165 98.2 81.3 121.9

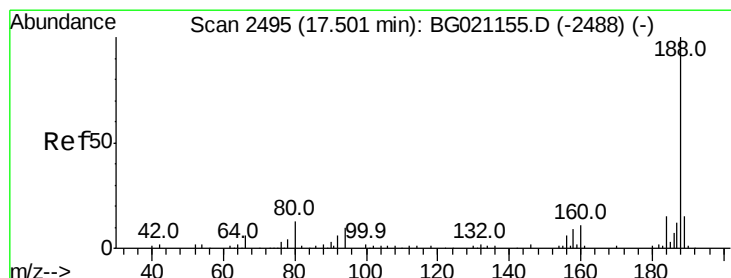
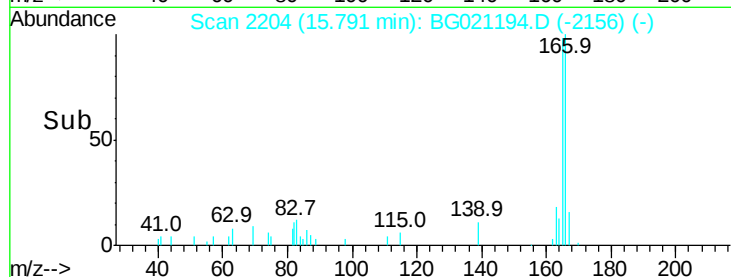
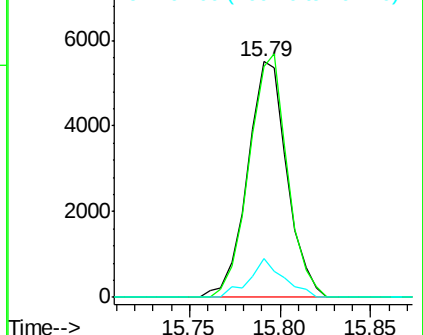
167 16.4 10.6 16.0#



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: 17.49 min Scan# 2493

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

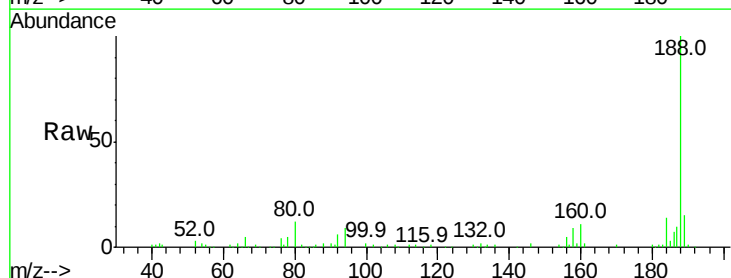
Tgt Ion:188 Resp: 81240

Ion Ratio Lower Upper

188 100

94 8.7 8.2 12.4

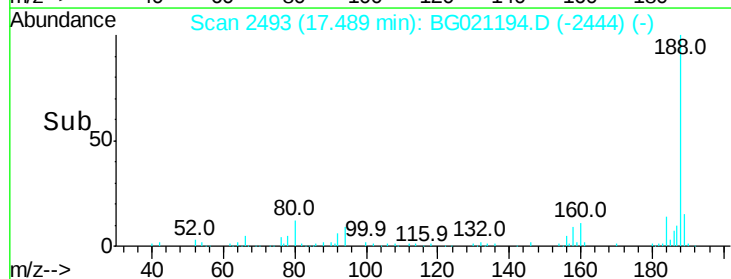
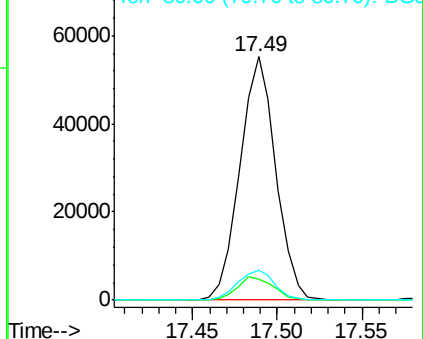
80 12.1 9.2 13.8

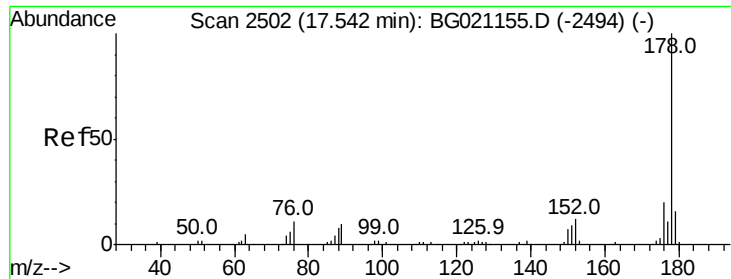


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

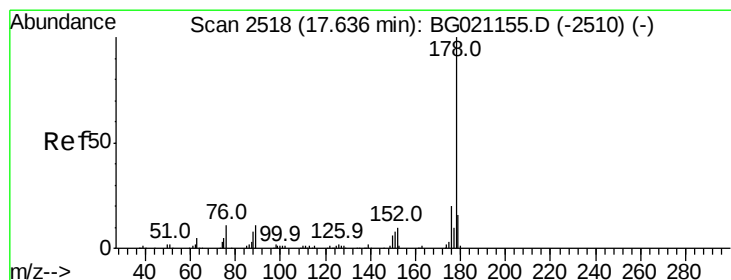
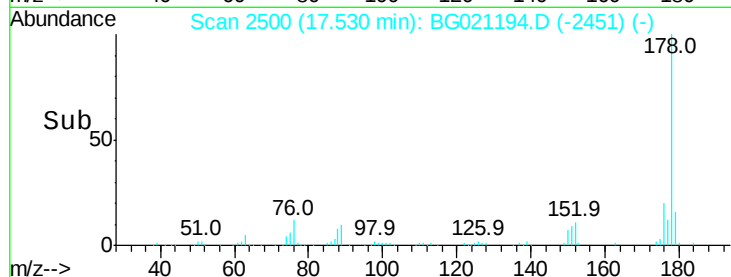
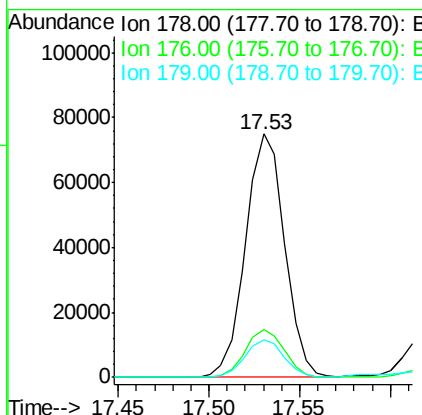
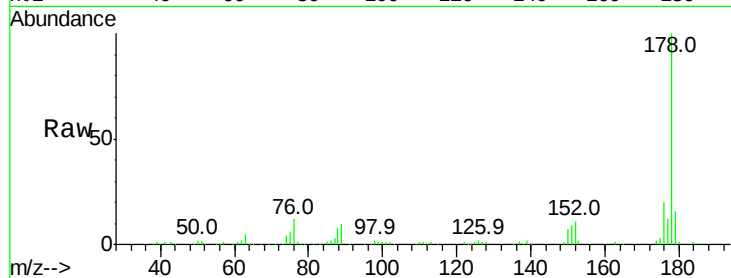




#70
Phenanthrene
Concen: 25.62 ng
RT: 17.53 min Scan# 2500
Delta R.T. -0.01 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

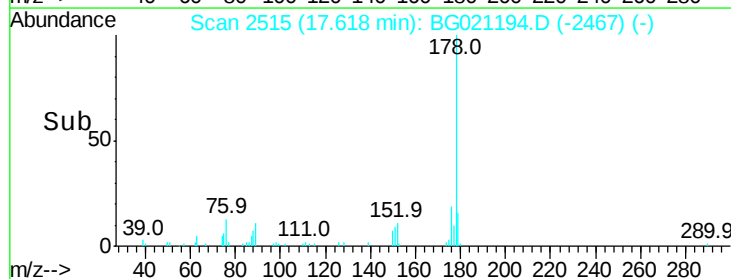
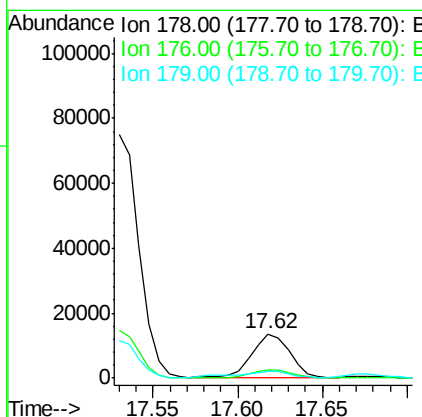
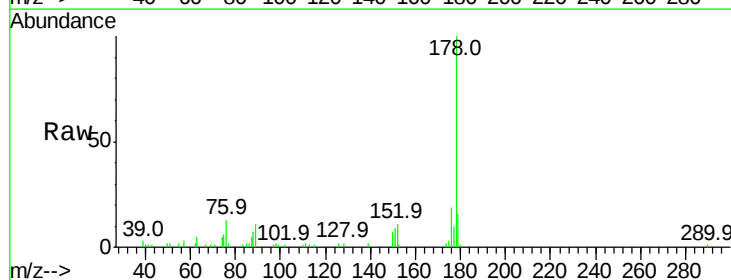
Instrument :
BNA_G
ClientSampleId :
CEB-8(2.5-5)20160224

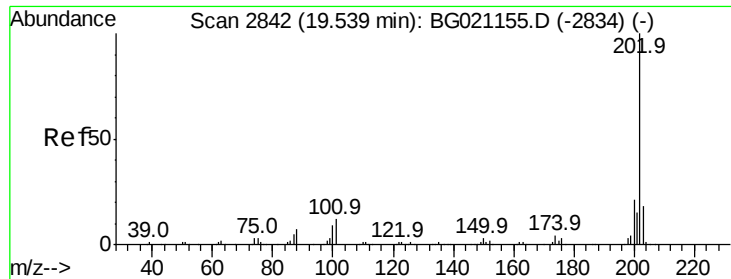
Tot Ion:178 Resp: 112343
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.6 12.9 19.3



#71
Anthracene
Concen: 4.66 ng
RT: 17.62 min Scan# 2515
Delta R.T. -0.02 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Tgt Ion:178 Resp: 20915
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 16.2 12.6 19.0





#74

Fluoranthene

Concen: 25.15 ng

RT: 19.53 min Scan# 2840

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

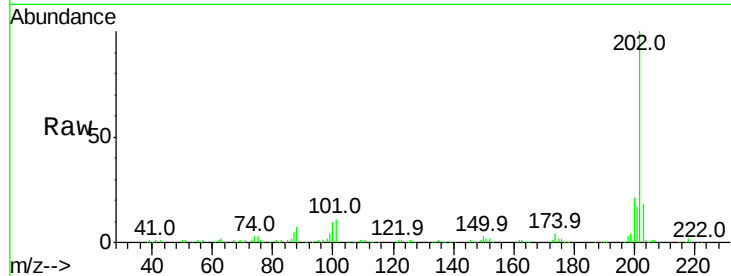
Tot Ion:202 Resp: 129550

Ion Ratio Lower Upper

202 100

101 11.4 0.0 32.5

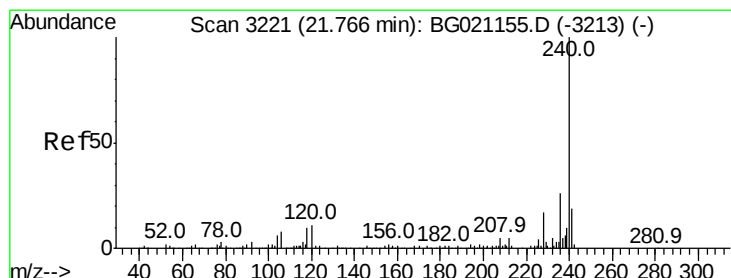
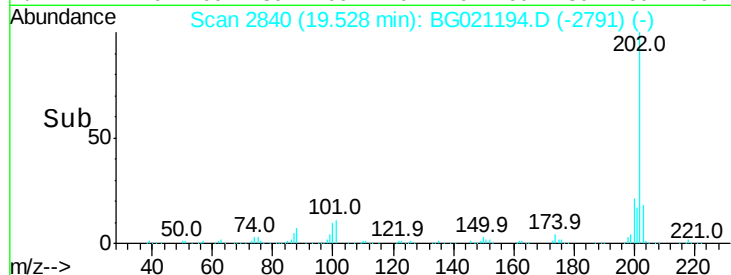
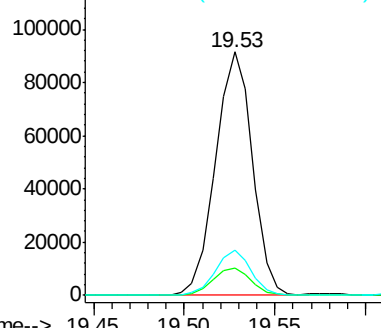
203 18.5 0.0 37.6



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: 21.75 min Scan# 3218

Delta R.T. -0.02 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

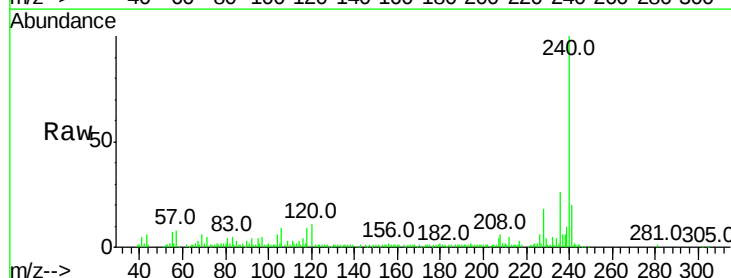
Tgt Ion:240 Resp: 82910

Ion Ratio Lower Upper

240 100

120 11.0 7.5 11.3

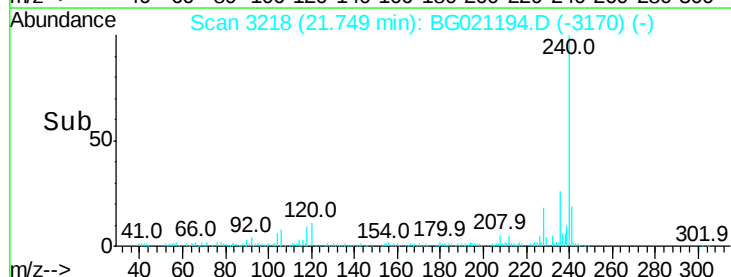
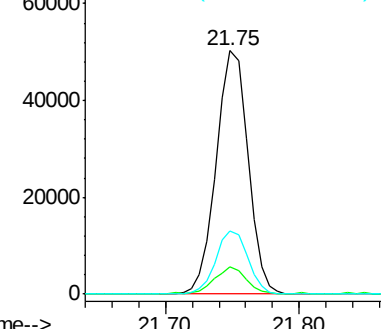
236 26.2 20.5 30.7

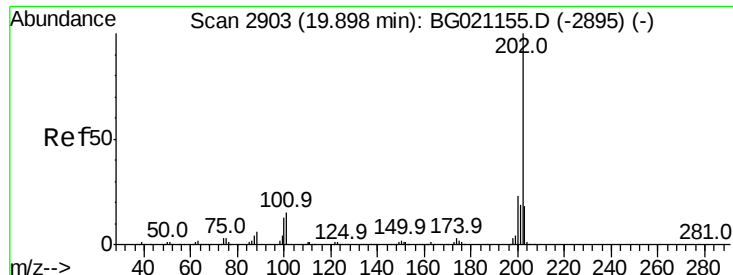


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 26.80 ng

RT: 19.89 min Scan# 2901

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

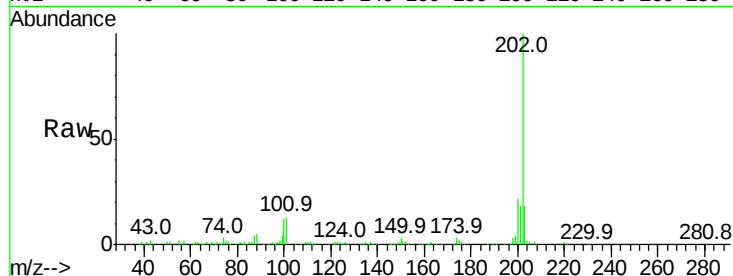
Tot Ion:202 Resp: 132558

Ion Ratio Lower Upper

202 100

200 21.9 16.6 25.0

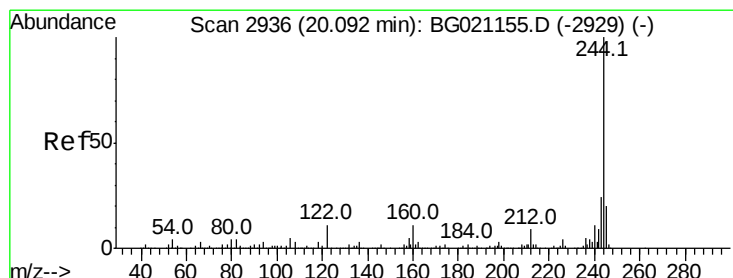
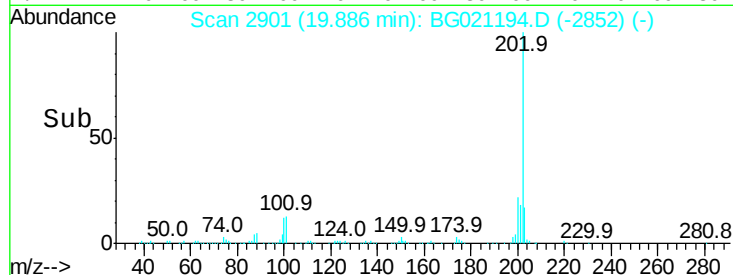
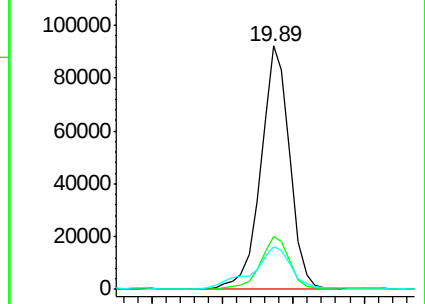
203 17.6 13.8 20.8



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: 67.13 ng

RT: 20.08 min Scan# 2934

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

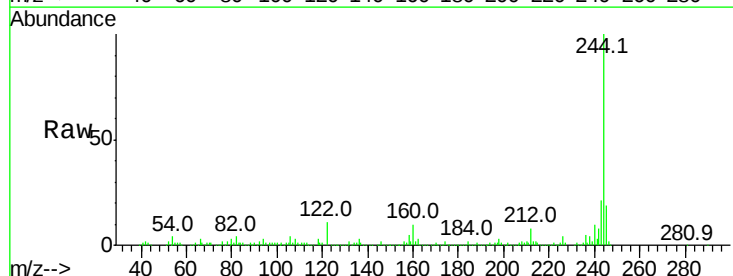
Tgt Ion:244 Resp: 229736

Ion Ratio Lower Upper

244 100

212 8.5 5.8 8.6

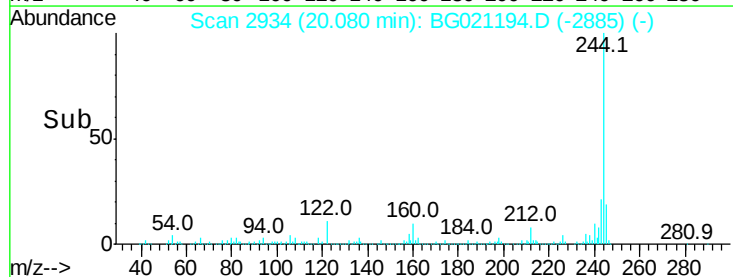
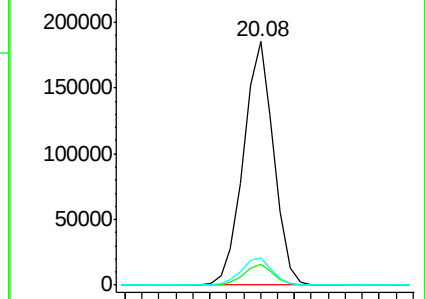
122 11.0 8.3 12.5

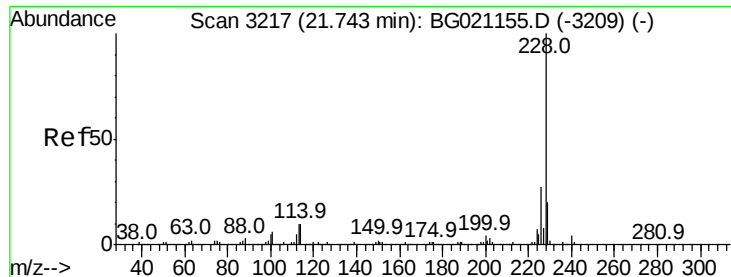


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 12.36 ng

RT: 21.73 min Scan# 3215

Delta R.T. -0.01 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

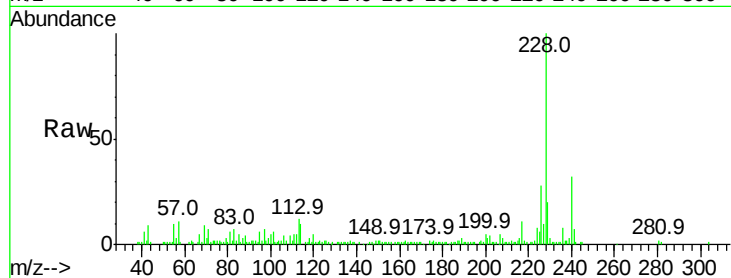
Tot Ion:228 Resp: 60663

Ion Ratio Lower Upper

228 100

226 27.8 22.7 34.1

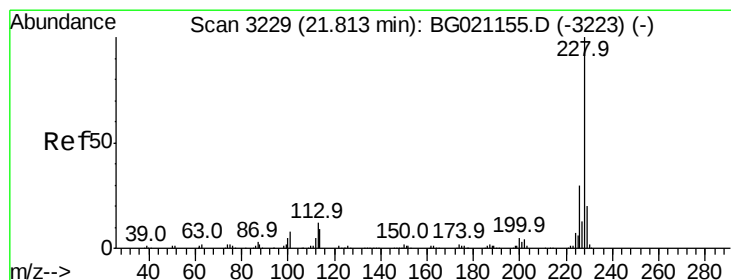
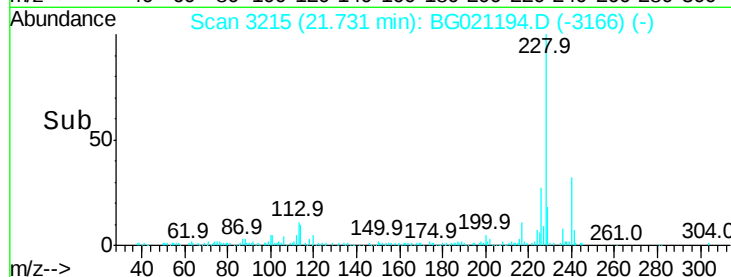
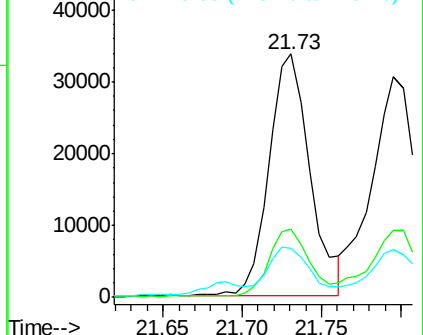
229 20.2 15.5 23.3



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: 12.71 ng

RT: 21.80 min Scan# 3226

Delta R.T. -0.02 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

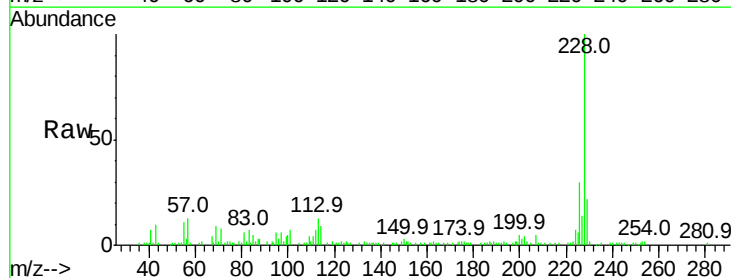
Tgt Ion:228 Resp: 59105

Ion Ratio Lower Upper

228 100

226 30.1 23.7 35.5

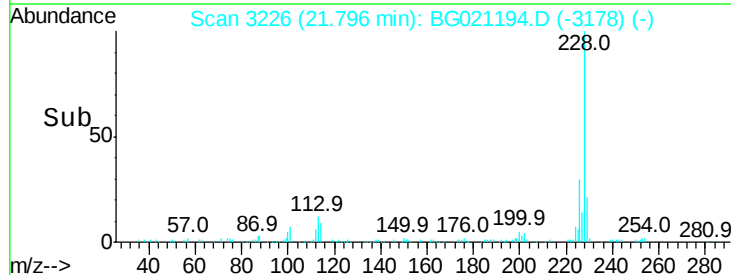
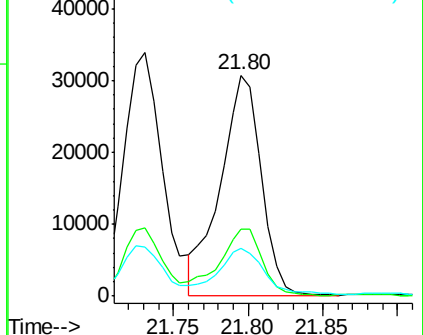
229 21.5 16.7 25.1

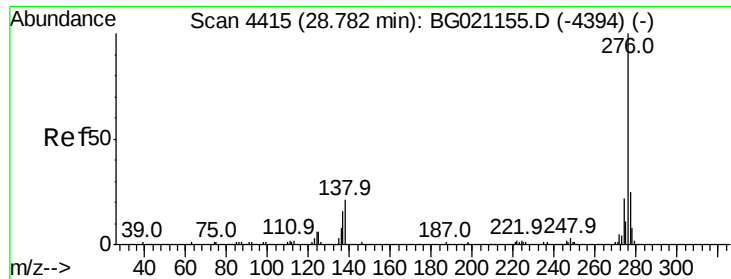


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

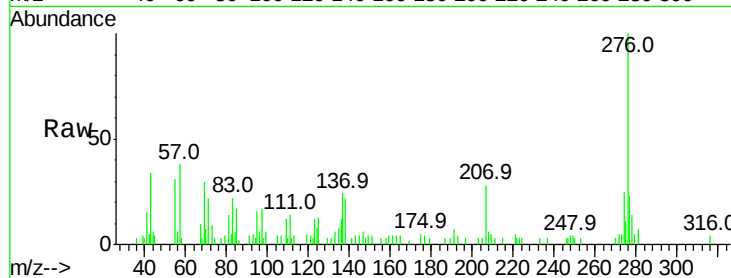




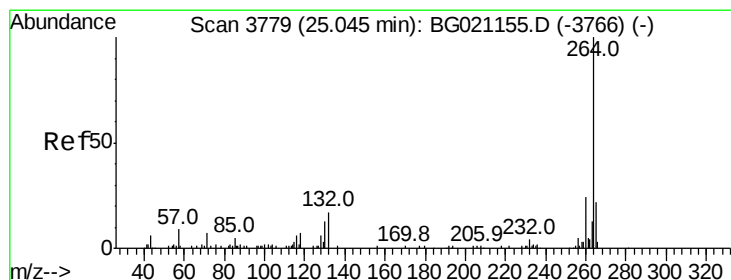
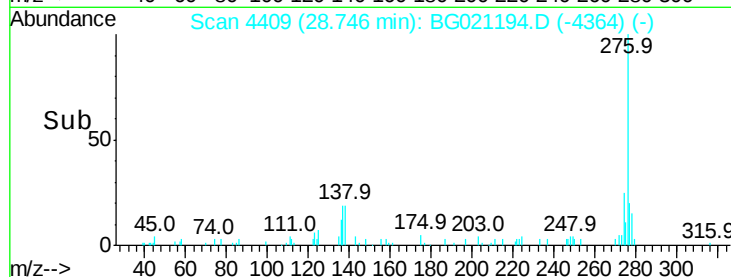
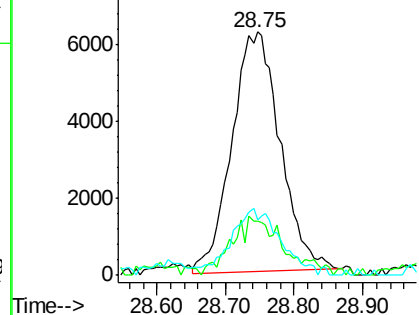
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.71 ng
RT: 28.75 min Scan# 4409
Delta R.T. -0.04 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Instrument :
BNA_G
ClientSampleId :
CEB-8(2.5-5)20160224

Tot Ion:276 Resp: 30432
Ion Ratio Lower Upper
276 100
138 11.3 0.0 0.0#
277 28.1 0.0 0.0#

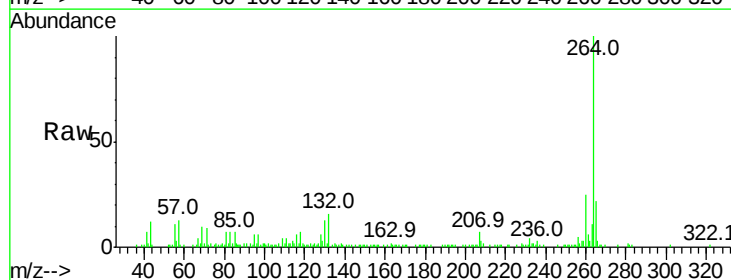


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

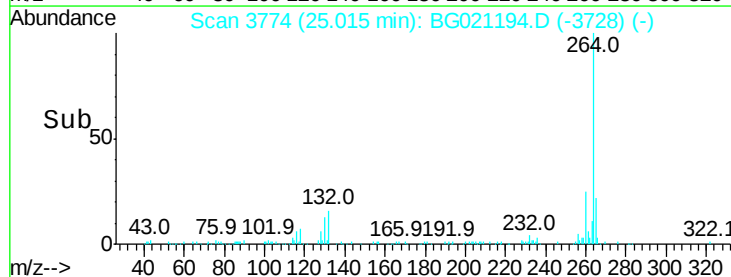
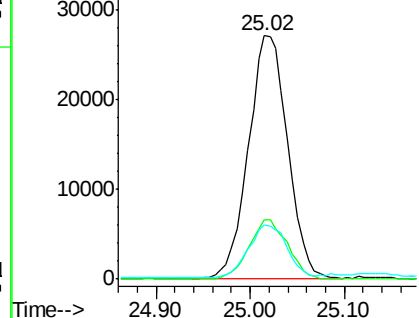


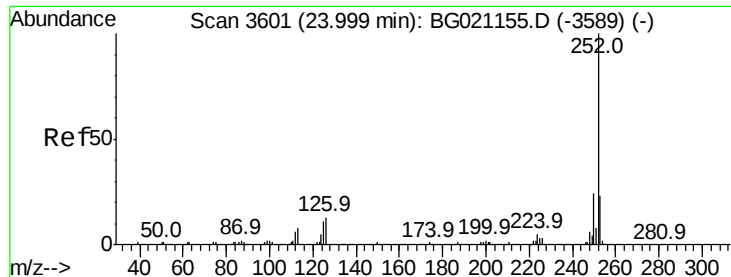
#86
Perylene-d12
Concen: 20.00 ng
RT: 25.02 min Scan# 3774
Delta R.T. -0.03 min
Lab File: BG021194.D
Acq: 1 Mar 2016 21:44

Tgt Ion:264 Resp: 78529
Ion Ratio Lower Upper
264 100
260 24.6 18.5 27.7
265 22.3 18.6 28.0



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: 12.90 ng

RT: 23.98 min Scan# 3598

Delta R.T. -0.02 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

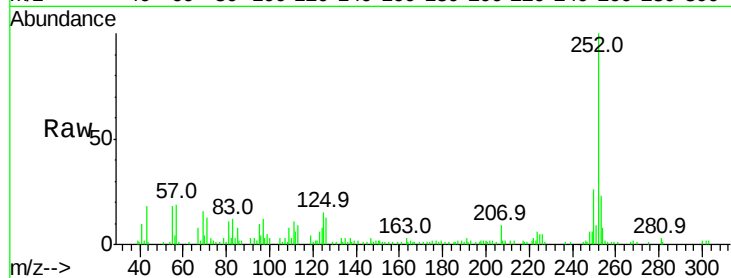
Tot Ion:252 Resp: 63699

Ion Ratio Lower Upper

252 100

253 23.4 16.8 25.2

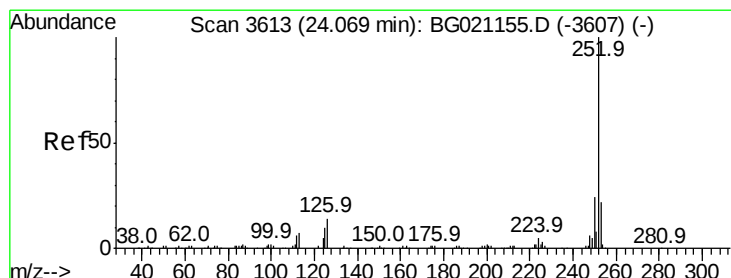
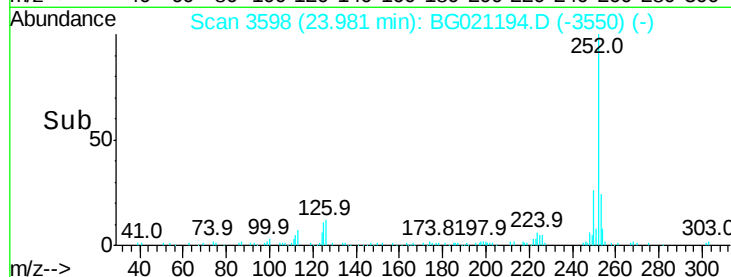
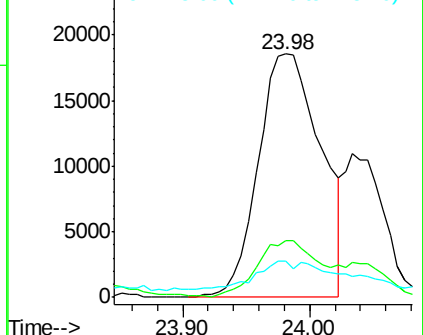
125 14.8 8.2 12.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 12.88 ng

RT: 23.98 min Scan# 3598

Delta R.T. -0.09 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

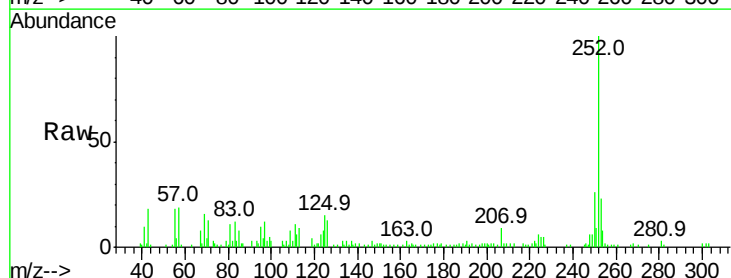
Tgt Ion:252 Resp: 63699

Ion Ratio Lower Upper

252 100

253 23.4 16.4 24.6

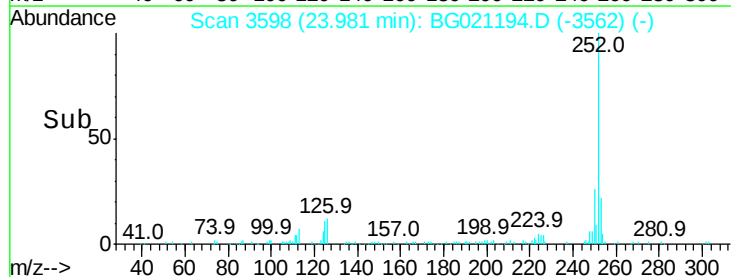
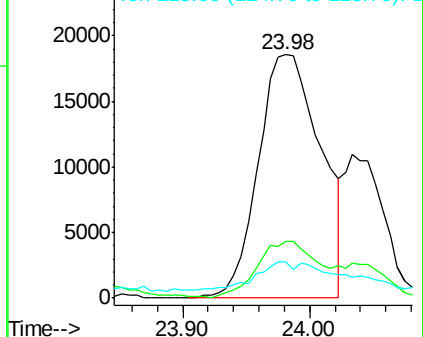
125 14.8 8.2 12.2#

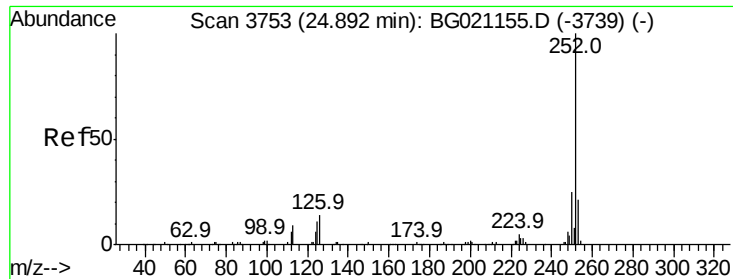


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 10.94 ng

RT: 24.86 min Scan# 3748

Delta R.T. -0.03 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

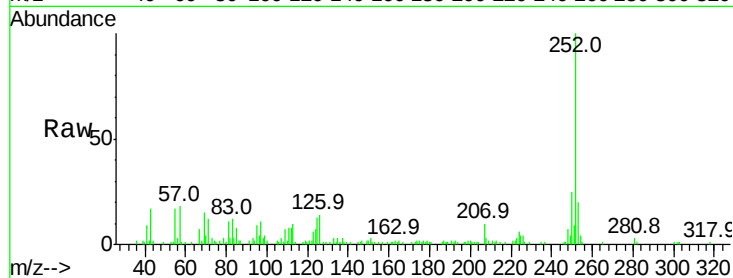
Instrument :

BNA_G

ClientSampleId :

CEB-8(2.5-5)20160224

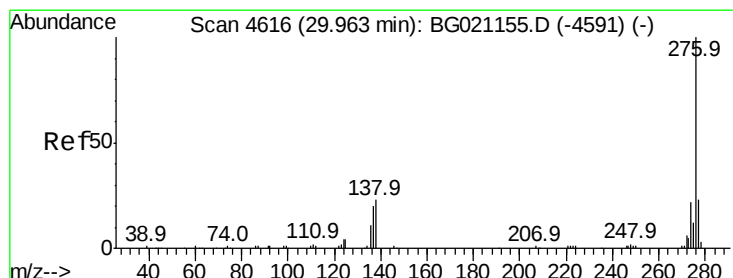
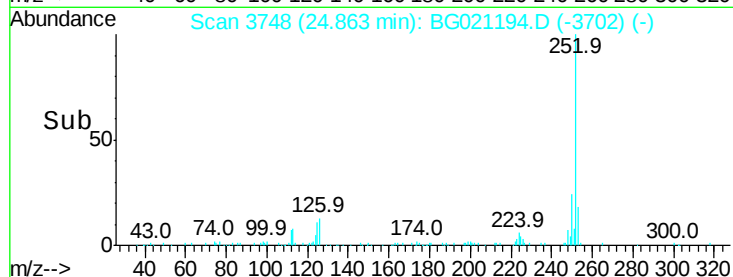
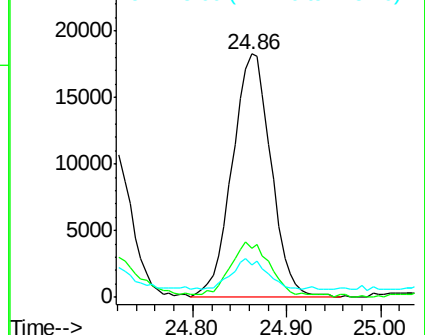
Tot Ion:	252	Resp:	52227
Ion Ratio	Lower	Upper	
252	100		
253	20.4	15.8	23.8
125	13.5	8.4	12.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 6.57 ng

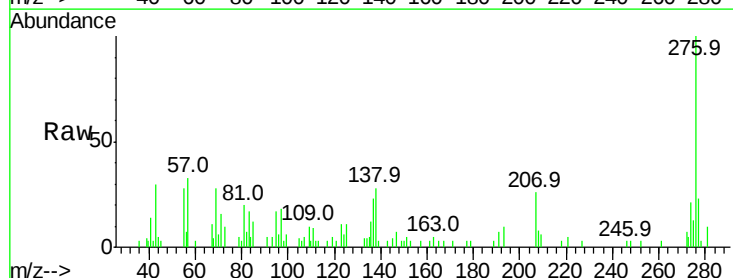
RT: 29.92 min Scan# 4608

Delta R.T. -0.05 min

Lab File: BG021194.D

Acq: 1 Mar 2016 21:44

Tgt Ion:	276	Resp:	29991
Ion Ratio	Lower	Upper	
276	100		
277	23.2	16.6	25.0
138	28.1	14.6	21.8#



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

