

Data Path : S:\HPCHEM1\BNA_G\DATA\BG022916\
 Data File : BG021180.D
 Acq On : 1 Mar 2016 9:27
 Operator : UM/SJ
 Sample : H1520-11RE
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Quant Time: Mar 01 11:12:56 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	13226	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	63794	20.00	ng	0.00
38) Acenaphthene-d10	14.76	164	34598	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	73606	20.00	ng	0.00
75) Chrysene-d12	21.76	240	79845	20.00	ng	0.00
86) Perylene-d12	25.03	264	73918	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	103712	124.66	ng	0.00
7) Phenol-d6	7.30	99	159523	116.61	ng	0.00
23) Nitrobenzene-d5	9.32	82	115708	76.75	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	37589	104.42	ng	0.00
44) 2-Fluorobiphenyl	13.39	172	165394	67.88	ng	0.00
78) Terphenyl-d14	20.08	244	200655	60.88	ng	-0.01

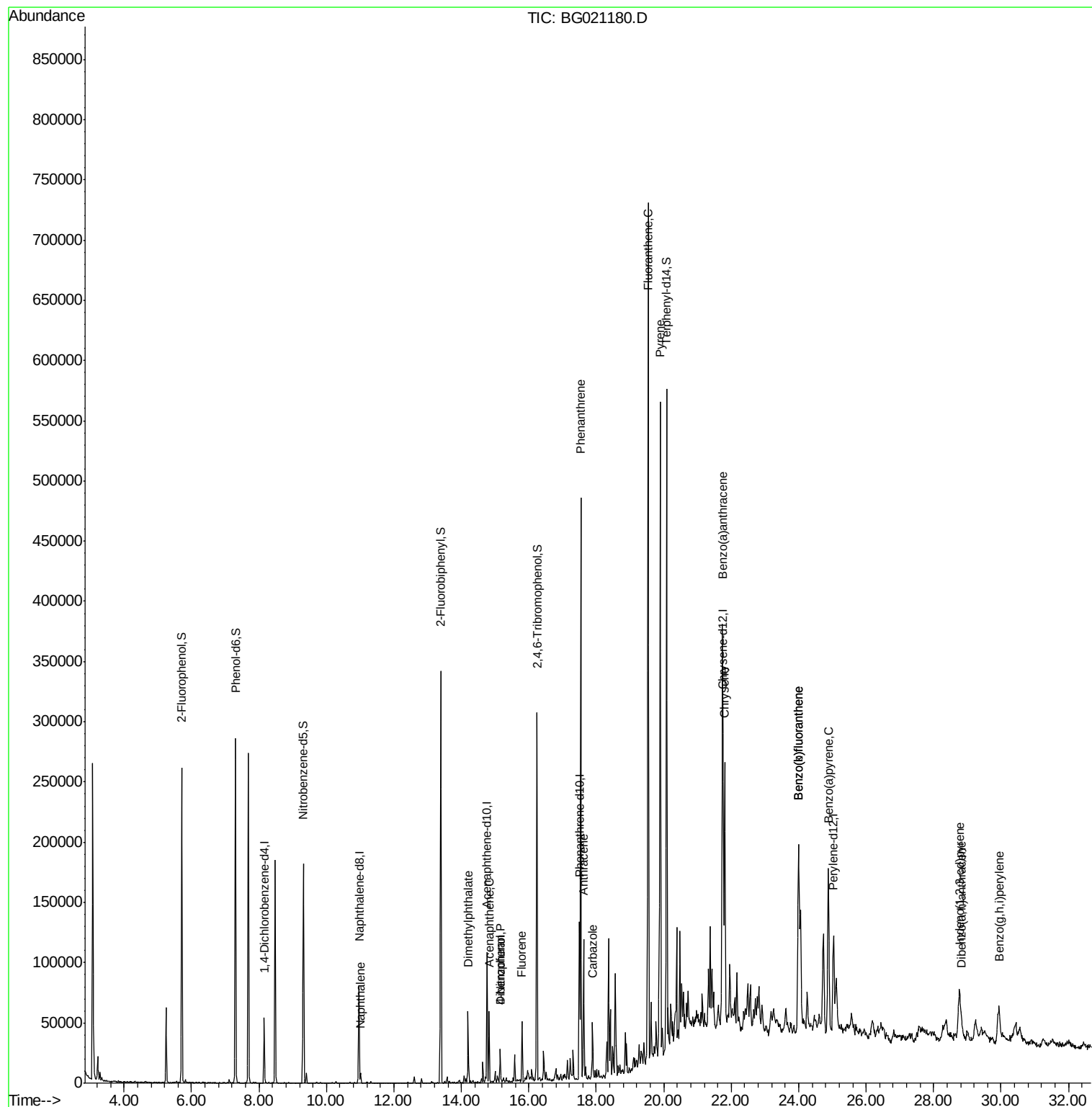
Target Compounds						Qvalue
31) Naphthalene	11.01	128	7179	2.16	ng	# 96
49) Dimethylphthalate	14.20	163	33284	10.80	ng	98
51) Acenaphthene	14.82	154	18440	8.03	ng	95
54) Dibenzofuran	15.15	168	14633	4.77	ng	92
55) 4-Nitrophenol	15.15	139	6261	10.55	ng	# 7
57) Fluorene	15.80	166	21426	7.34	ng	94
70) Phenanthrene	17.54	178	256090	64.47	ng	100
71) Anthracene	17.63	178	67525	16.61	ng	100
72) Carbazole	17.89	167	25634	7.11	ng	# 95
74) Fluoranthene	19.54	202	406580	87.12	ng	99
77) Pyrene	19.89	202	327135	68.68	ng	98
80) Benzo(a)anthracene	21.74	228	179858	38.05	ng	99
82) Chrysene	21.81	228	140427	31.35	ng	98
85) Indeno(1,2,3-cd)pyrene	28.77	276	62448	12.16	ng	# 100
87) Benzo(b)fluoranthene	23.99	252	186292	40.07	ng	98
88) Benzo(k)fluoranthene	23.99	252	186292	40.01	ng	97
89) Benzo(a)pyrene	24.88	252	136384	30.34	ng	93
90) Dibenzo(a,h)anthracene	28.81	278	17468	3.93	ng	# 94
91) Benzo(g,h,i)perylene	29.93	276	55777	12.98	ng	# 90

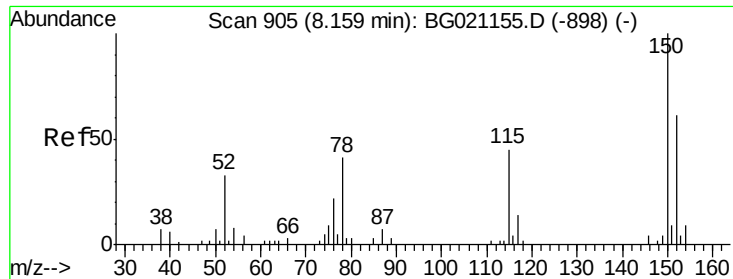
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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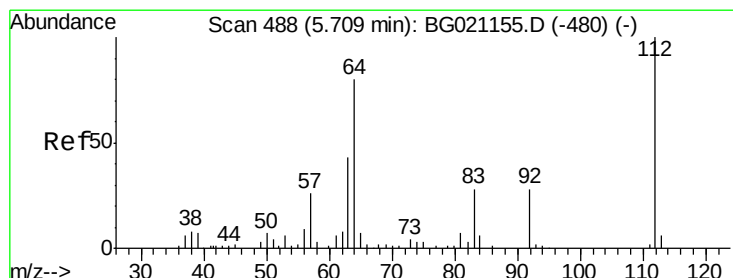
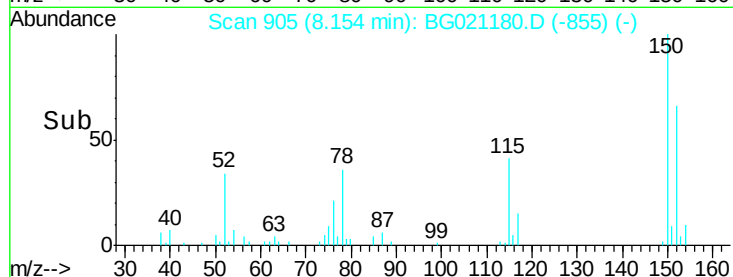
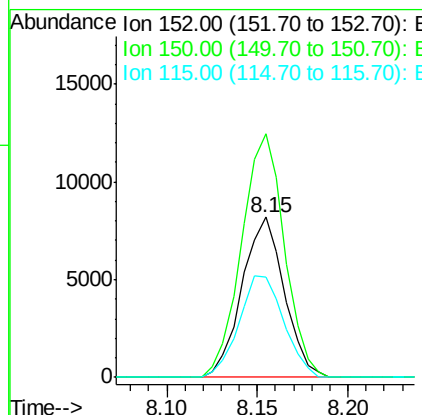
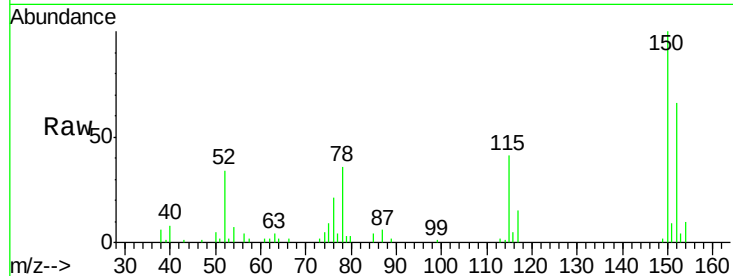




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 8.15 min Scan# 905
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

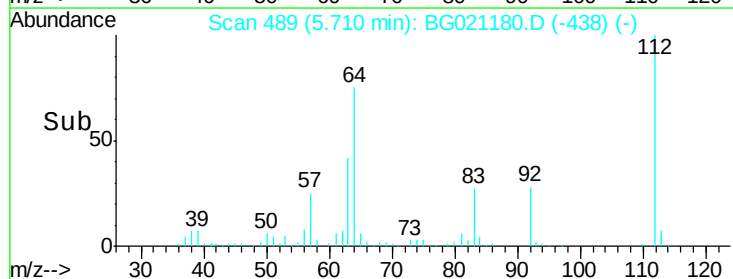
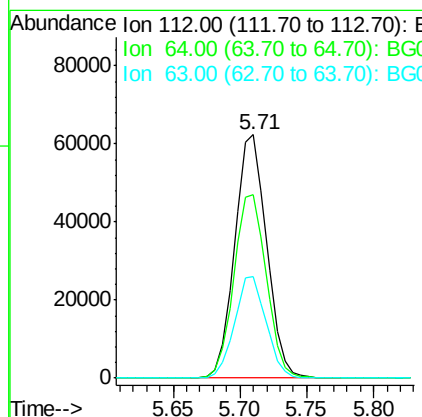
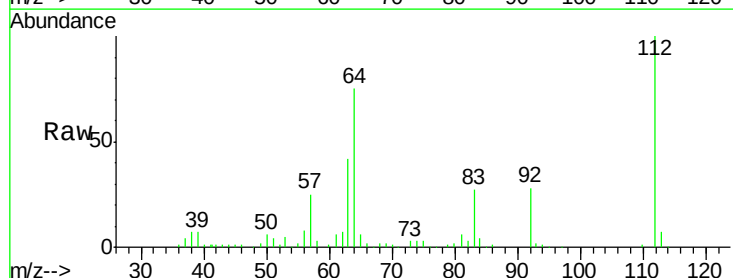
Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

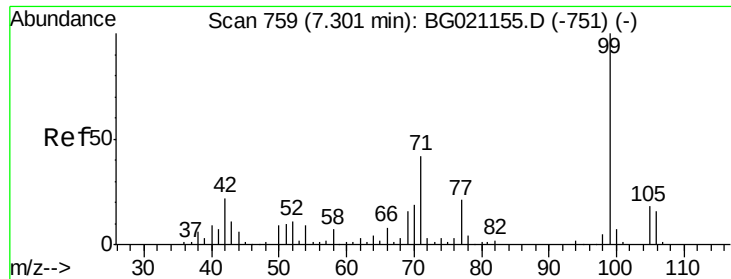
Tgt Ion:152 Resp: 13226
 Ion Ratio Lower Upper
 152 100
 150 151.9 123.4 185.2
 115 62.5 43.3 64.9



#5
 2-Fluorophenol
 Concen: 124.66 ng
 RT: 5.71 min Scan# 489
 Delta R.T. 0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion:112 Resp: 103712
 Ion Ratio Lower Upper
 112 100
 64 75.1 42.6 63.8#
 63 41.7 21.7 32.5#





#7

Phenol-d6

Concen: 116.61 ng

RT: 7.30 min Scan# 760

Delta R.T. 0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

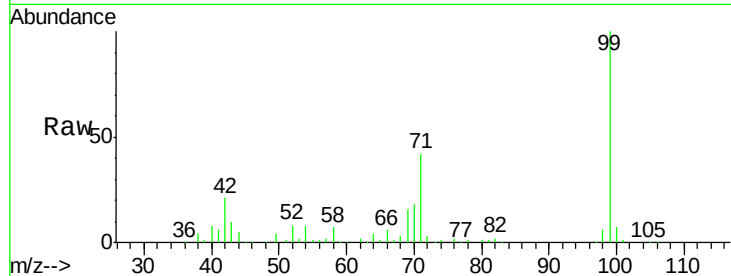
Tgt Ion: 99 Resp: 159523

Ion Ratio Lower Upper

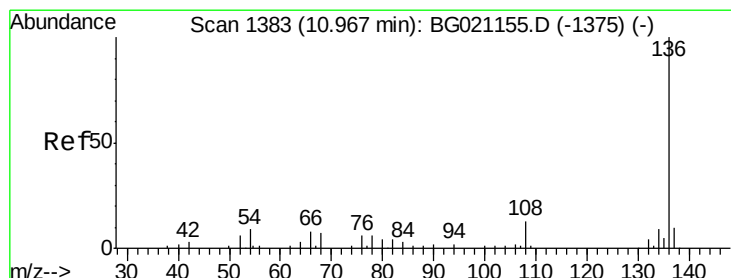
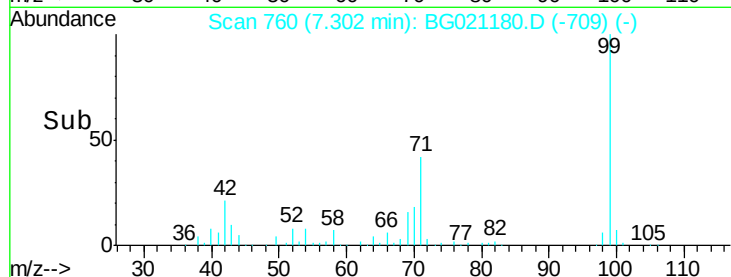
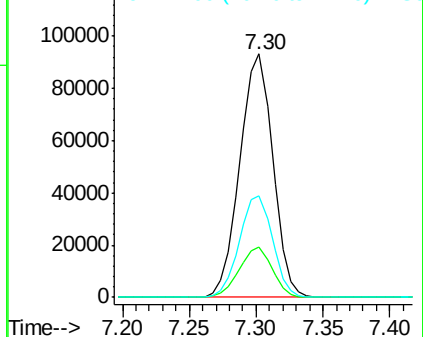
99 100

42 20.9 13.2 19.8#

71 41.7 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# 1383

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Tgt Ion: 136 Resp: 63794

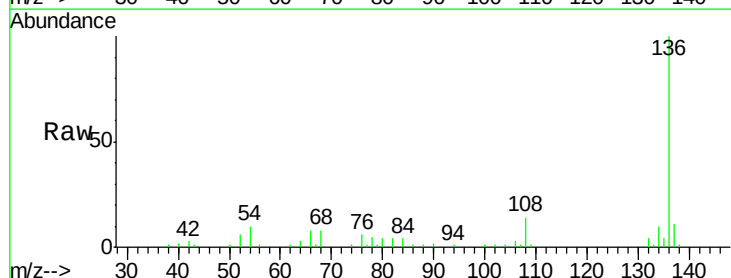
Ion Ratio Lower Upper

136 100

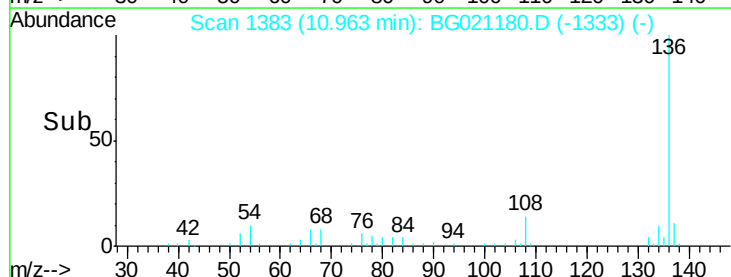
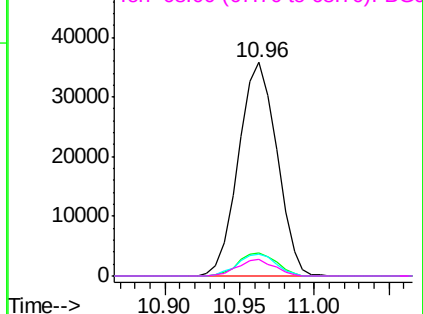
137 10.7 8.8 13.2

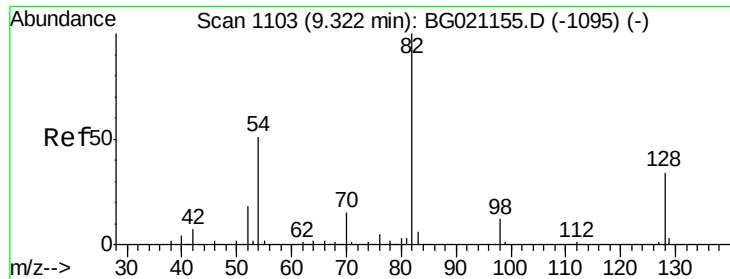
54 10.4 6.9 10.3#

68 7.6 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

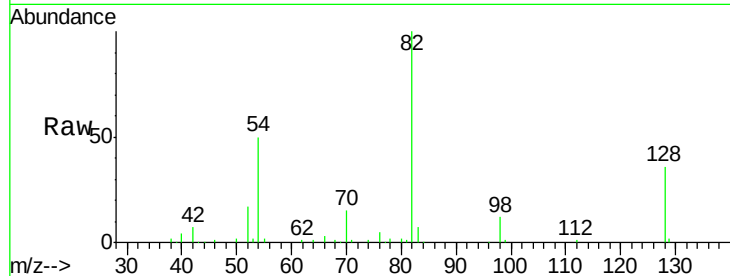




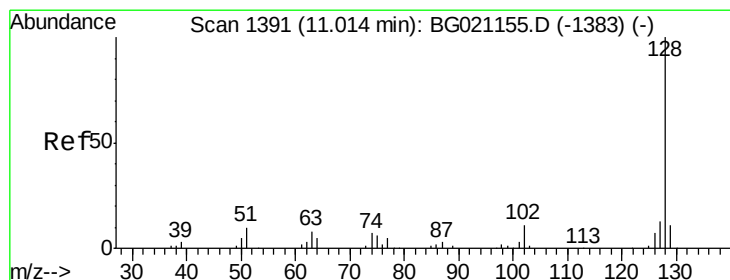
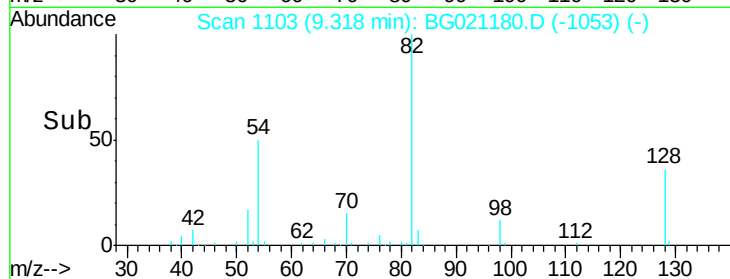
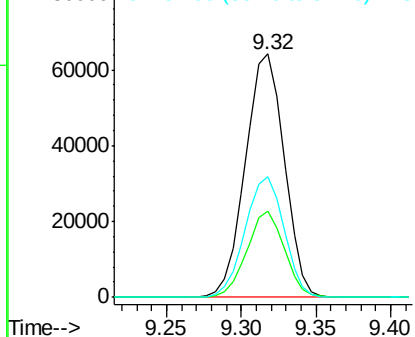
#23
 Nitrobenzene-d5
 Concen: 76.75 ng
 RT: 9.32 min Scan# 1103
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tgt Ion: 82 Resp: 115708
 Ion Ratio Lower Upper
 82 100
 128 35.6 36.3 54.5#
 54 49.9 37.6 56.4

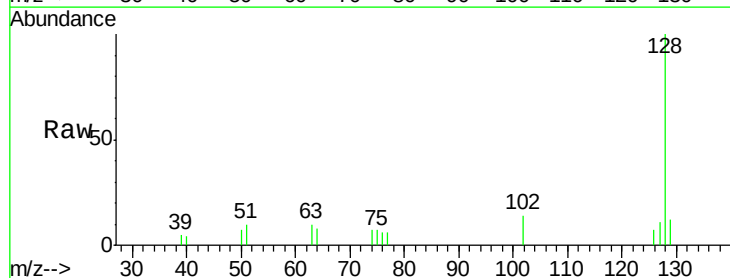


Abundance Ion 82.00 (81.70 to 82.70): BG
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): B

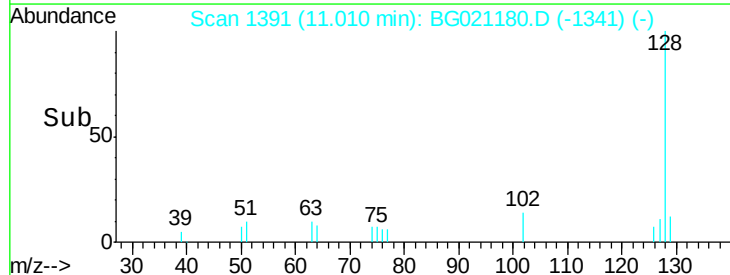
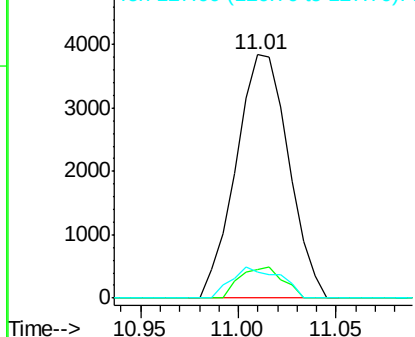


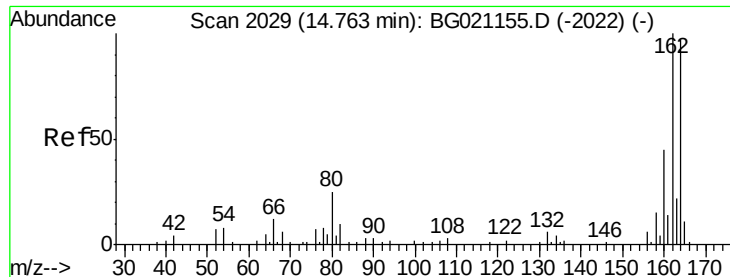
#31
 Naphthalene
 Concen: 2.16 ng
 RT: 11.01 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion: 128 Resp: 7179
 Ion Ratio Lower Upper
 128 100
 129 11.6 9.4 14.2
 127 10.7 10.8 16.2#



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

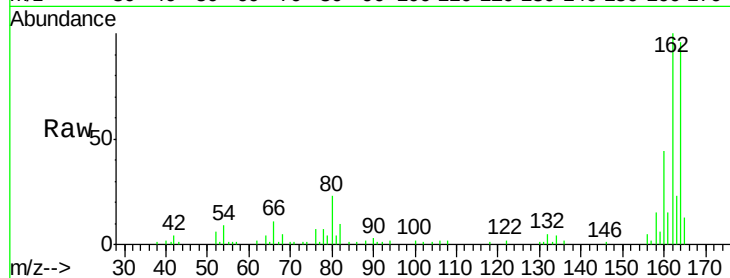
Tgt Ion:164 Resp: 34598

Ion Ratio Lower Upper

164 100

162 104.0 80.6 120.8

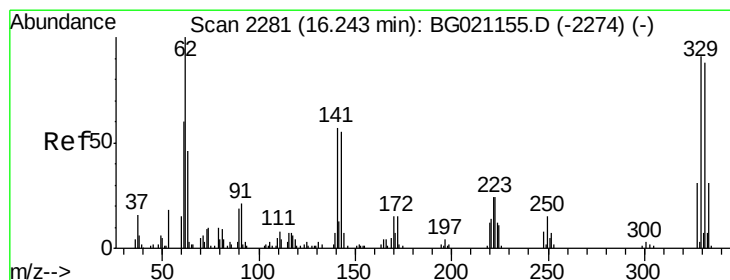
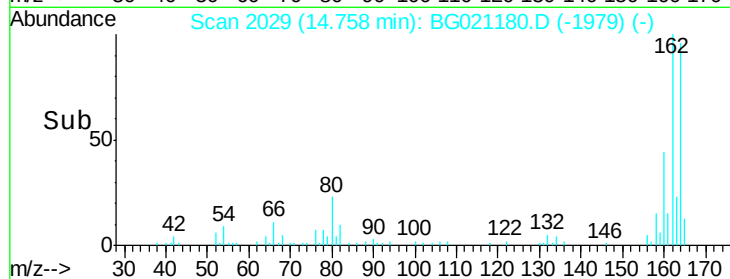
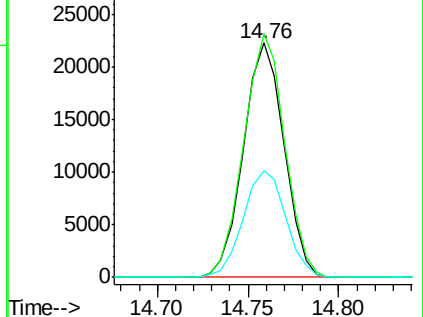
160 45.5 36.5 54.7



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: 104.42 ng

RT: 16.24 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

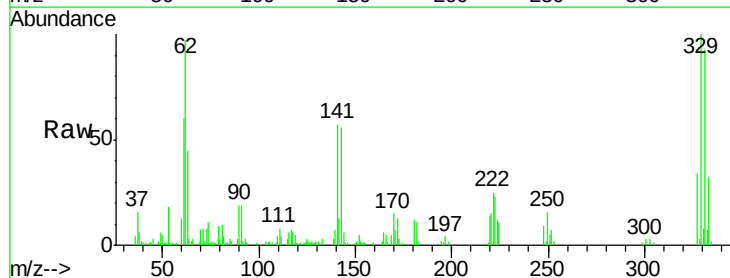
Tgt Ion:330 Resp: 37589

Ion Ratio Lower Upper

330 100

332 96.0 77.4 116.0

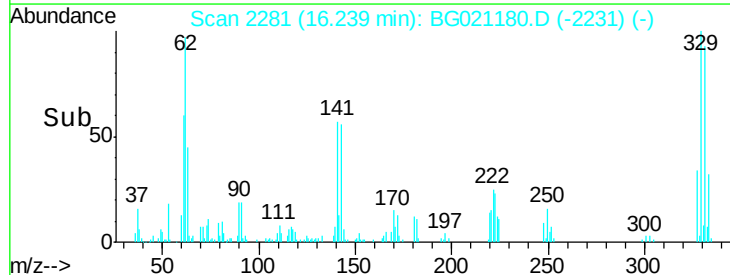
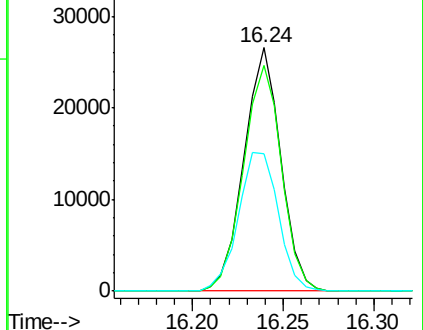
141 62.2 35.3 52.9#

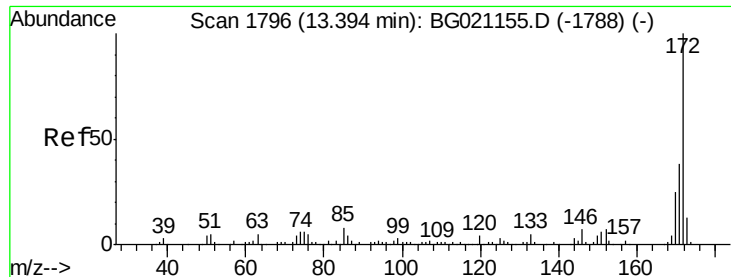


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

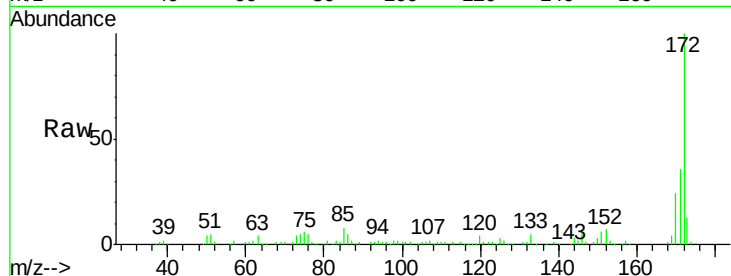




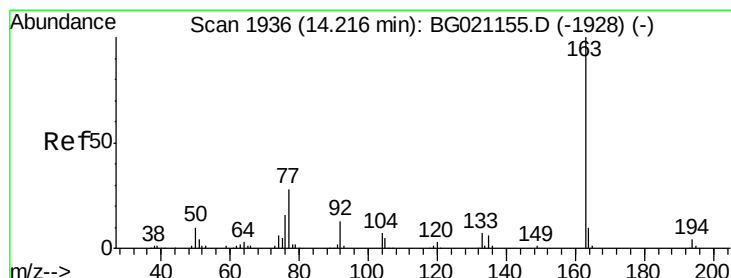
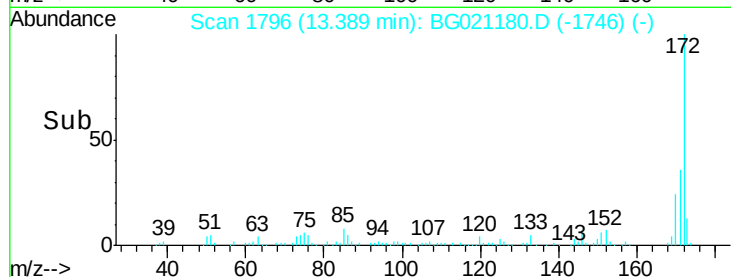
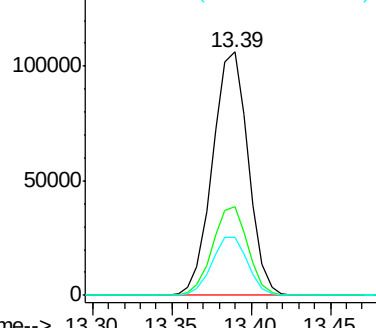
#44
 2-Fluorobiphenyl
 Concen: 67.88 ng
 RT: 13.39 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
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Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	24.0	19.8	29.8

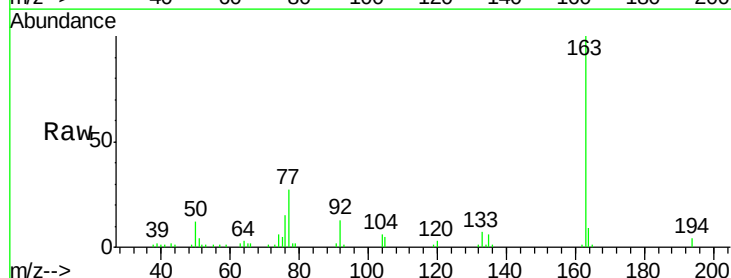


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

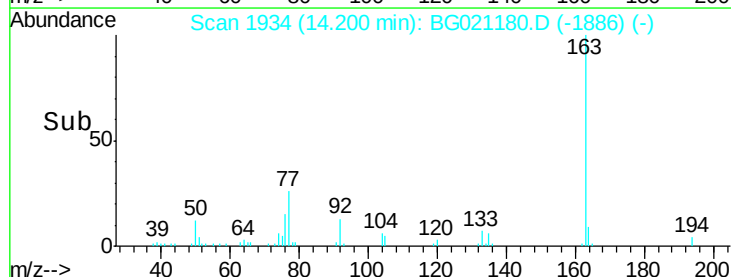
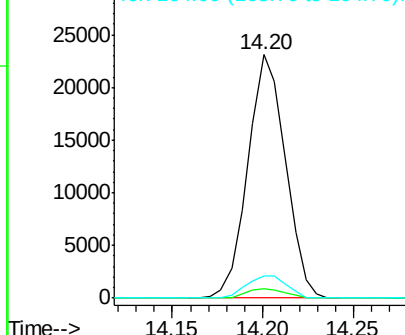


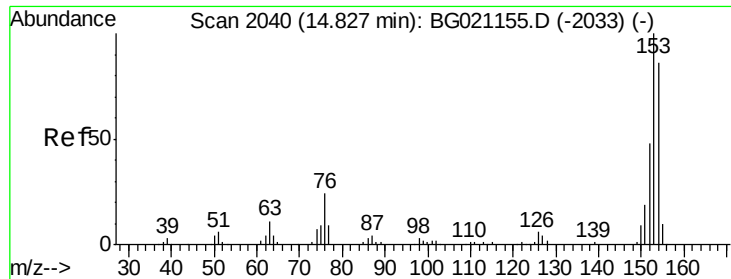
#49
 Dimethylphthalate
 Concen: 10.80 ng
 RT: 14.20 min Scan# 1934
 Delta R.T. -0.02 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.8	4.2
164	9.2	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: 8.03 ng

RT: 14.82 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

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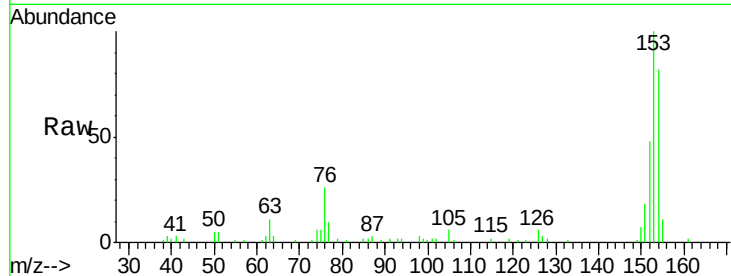
Tgt Ion:154 Resp: 18440

Ion Ratio Lower Upper

154 100

153 121.7 94.2 141.2

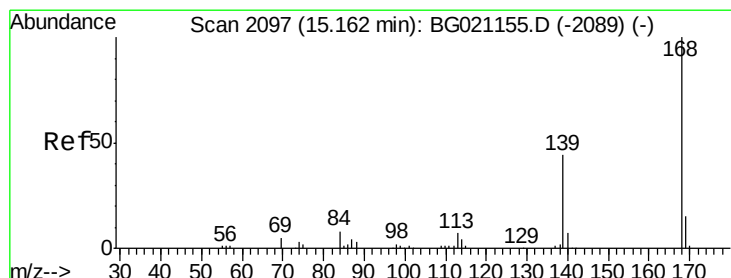
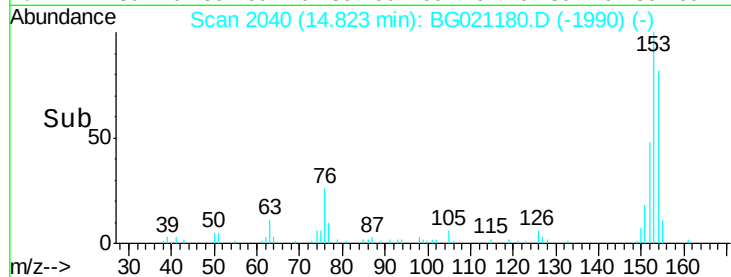
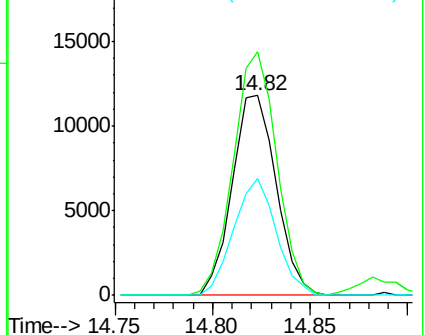
152 58.3 42.9 64.3



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: 4.77 ng

RT: 15.15 min Scan# 2096

Delta R.T. -0.01 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

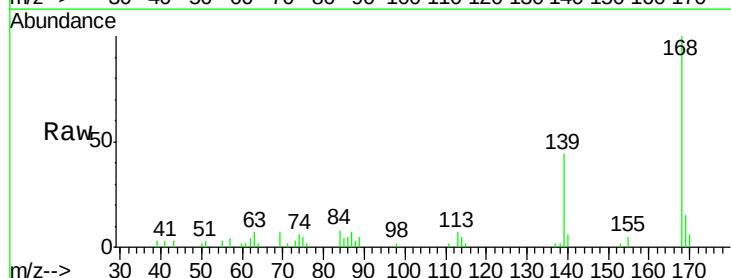
Tgt Ion:168 Resp: 14633

Ion Ratio Lower Upper

168 100

139 44.1 29.8 44.8

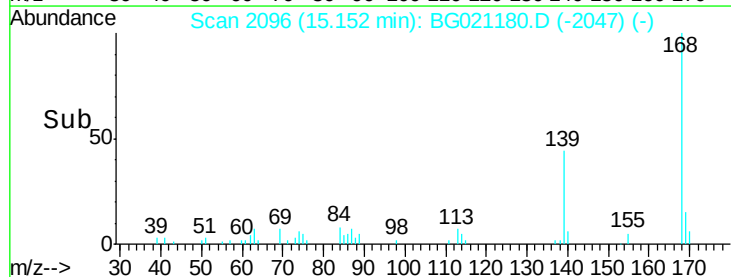
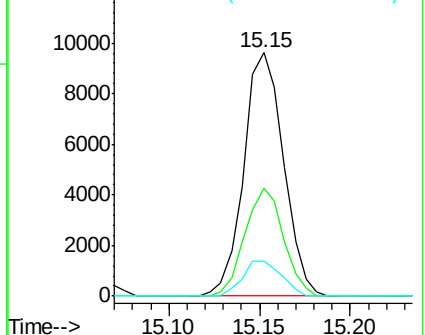
169 14.5 11.4 17.2

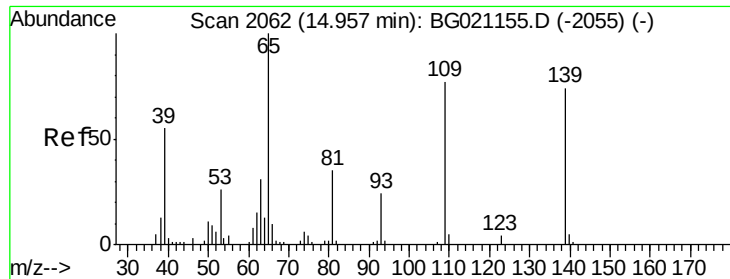


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 10.55 ng

RT: 15.15 min Scan# 2096

Delta R.T. 0.20 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

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ClientSampleId :

40053+15(0-2)RE

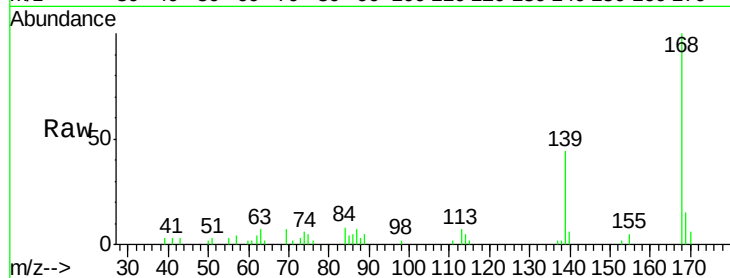
Tgt Ion:139 Resp: 6261

Ion Ratio Lower Upper

139 100

109 0.0 54.1 94.1#

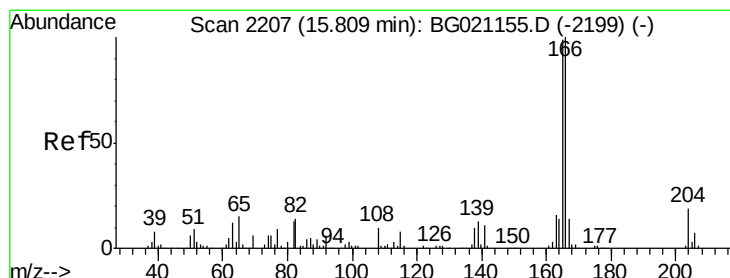
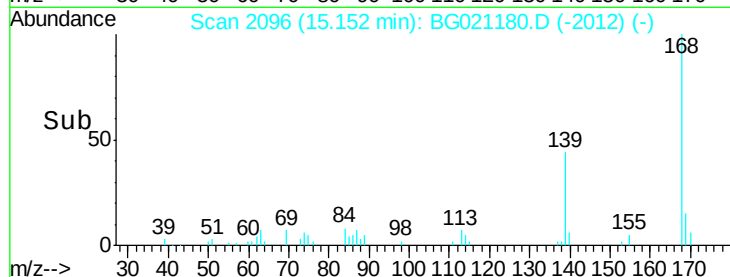
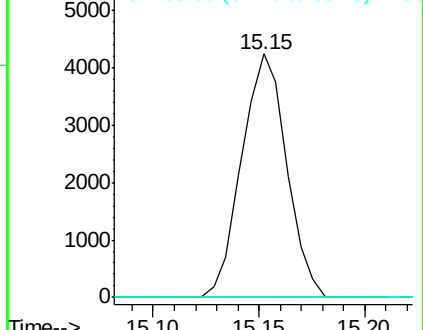
65 0.0 73.4 113.4#



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): BGC



#57

Fluorene

Concen: 7.34 ng

RT: 15.80 min Scan# 2206

Delta R.T. -0.01 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

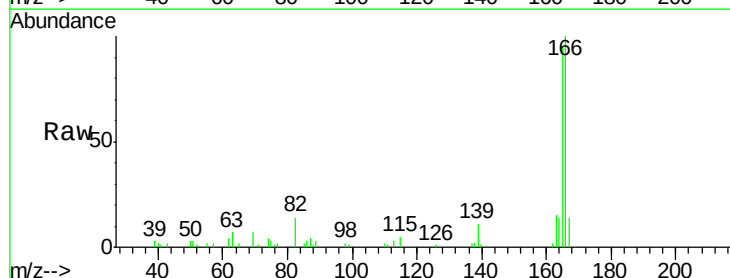
Tgt Ion:166 Resp: 21426

Ion Ratio Lower Upper

166 100

165 94.7 81.3 121.9

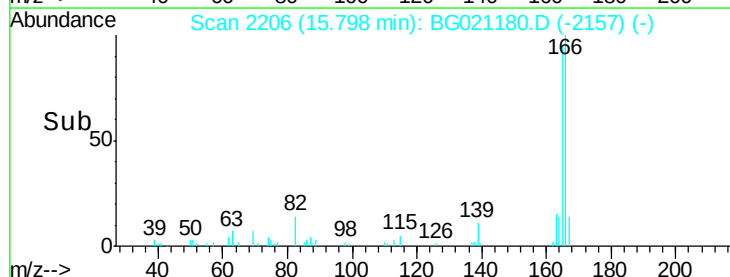
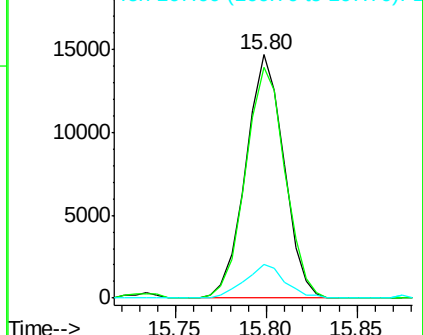
167 13.8 10.6 16.0

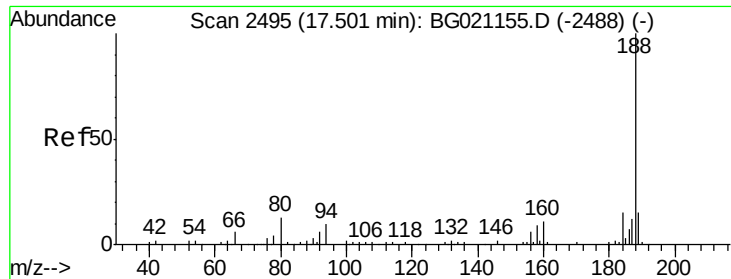


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.50 min Scan# 2495

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

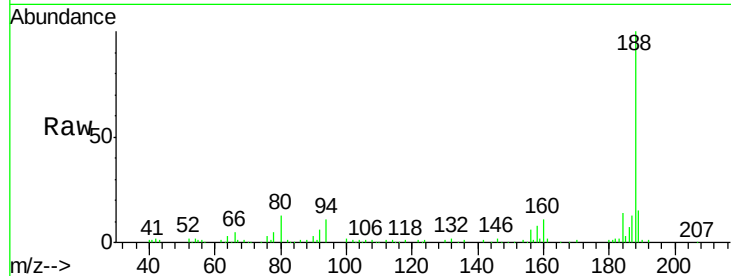
Tgt Ion:188 Resp: 73606

Ion Ratio Lower Upper

188 100

94 11.2 8.2 12.4

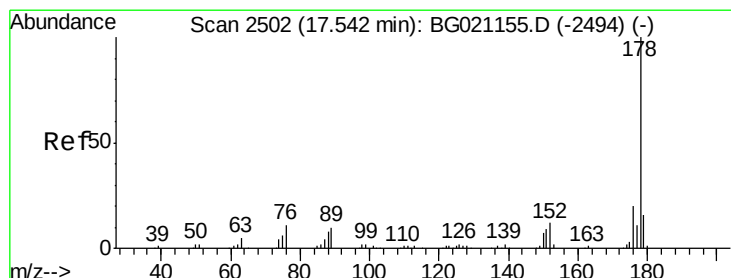
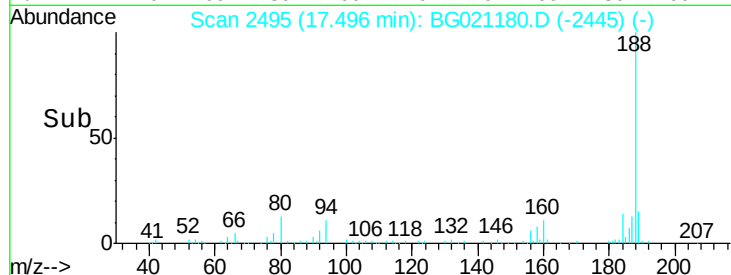
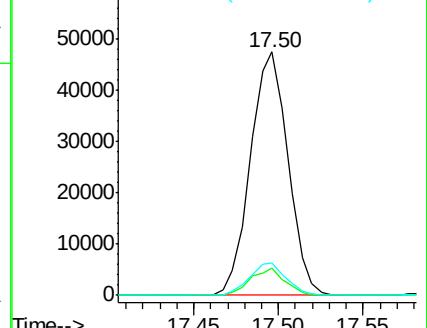
80 13.5 9.2 13.8



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: 64.47 ng

RT: 17.54 min Scan# 2502

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

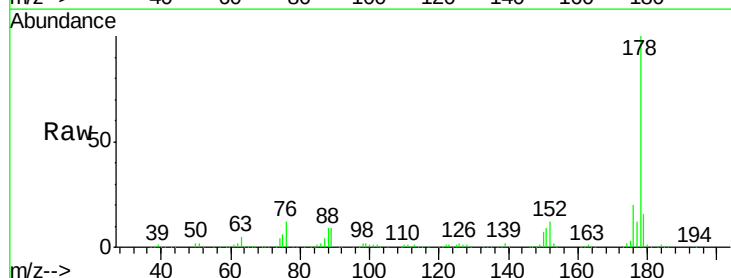
Tgt Ion:178 Resp: 256090

Ion Ratio Lower Upper

178 100

176 20.1 16.2 24.4

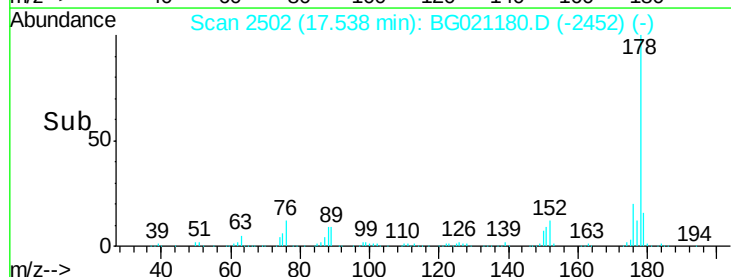
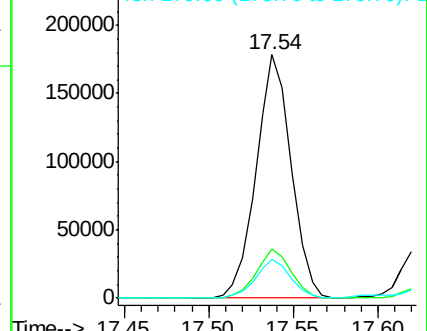
179 15.9 12.9 19.3

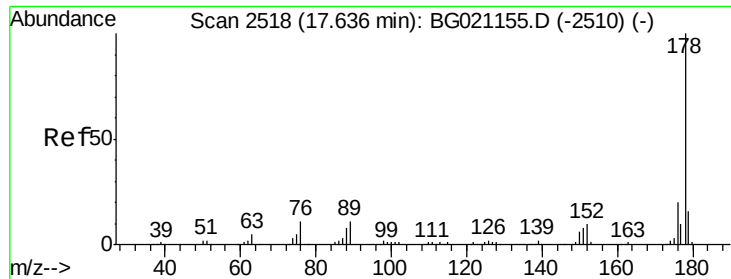


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

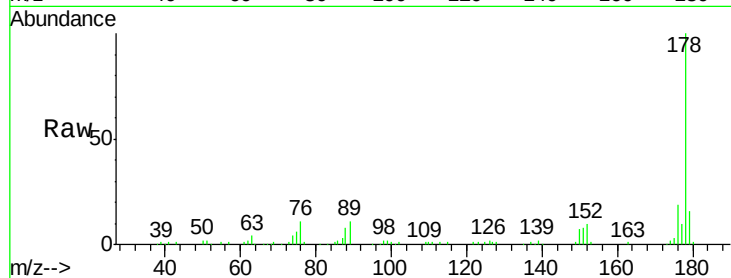




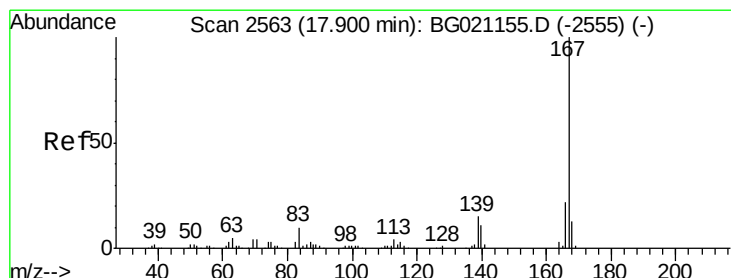
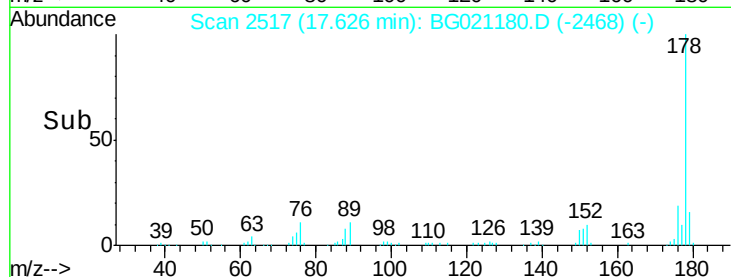
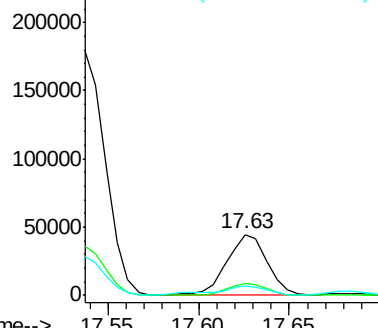
#71
 Anthracene
 Concen: 16.61 ng
 RT: 17.63 min Scan# 2517
 Delta R.T. -0.01 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tgt Ion:178 Resp: 67525
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.8 22.2
 179 15.6 12.6 19.0

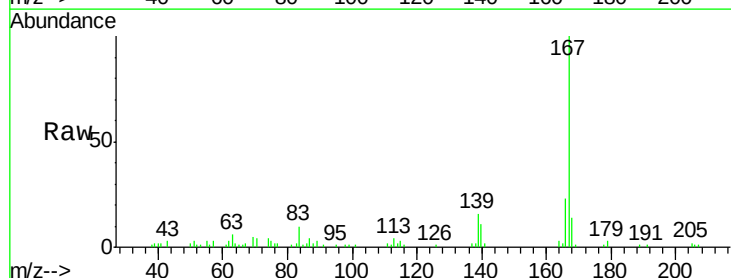


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

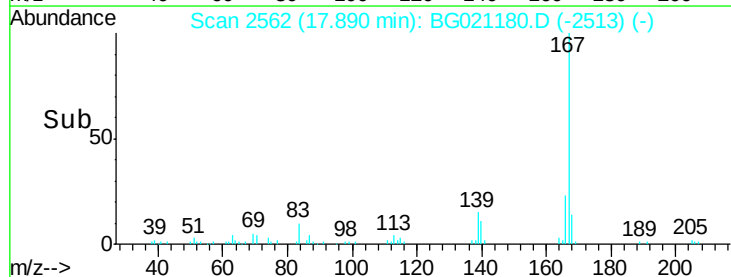
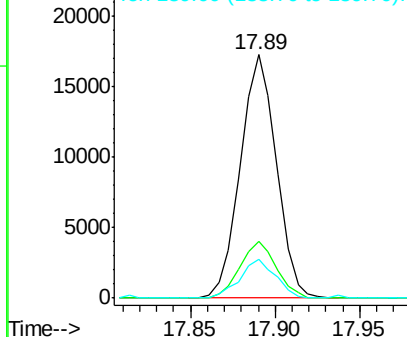


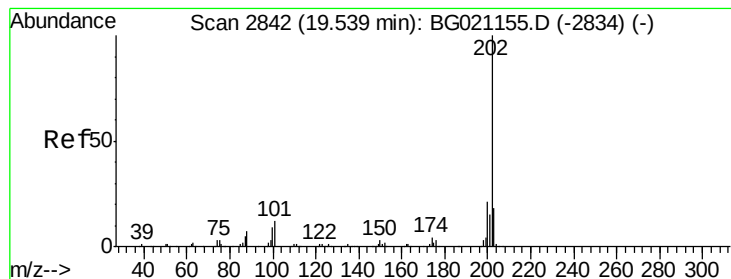
#72
 Carbazole
 Concen: 7.11 ng
 RT: 17.89 min Scan# 2562
 Delta R.T. -0.01 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion:167 Resp: 25634
 Ion Ratio Lower Upper
 167 100
 166 23.2 17.5 26.3
 139 16.1 10.3 15.5#



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 87.12 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

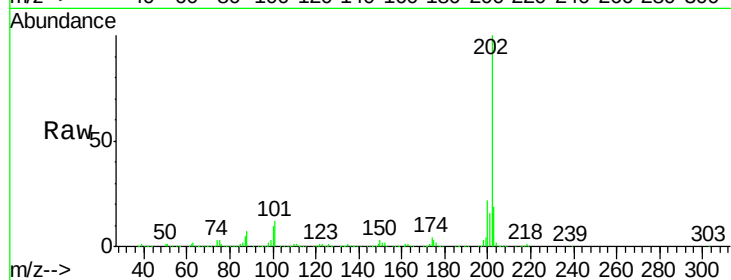
Tgt Ion:202 Resp: 406580

Ion Ratio Lower Upper

202 100

101 12.4 0.0 32.5

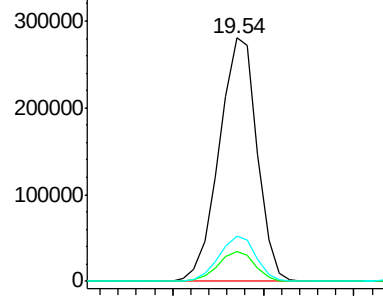
203 18.5 0.0 37.6



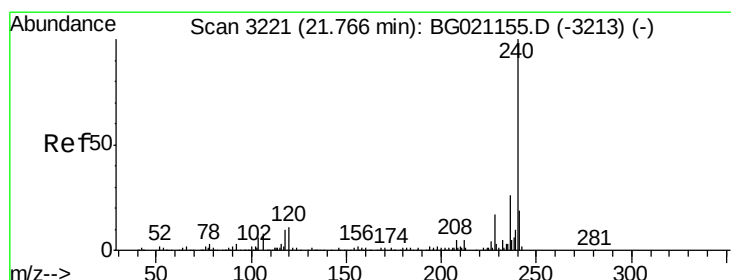
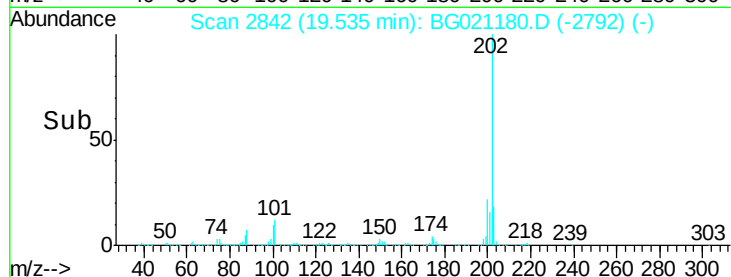
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.76 min Scan# 3221

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

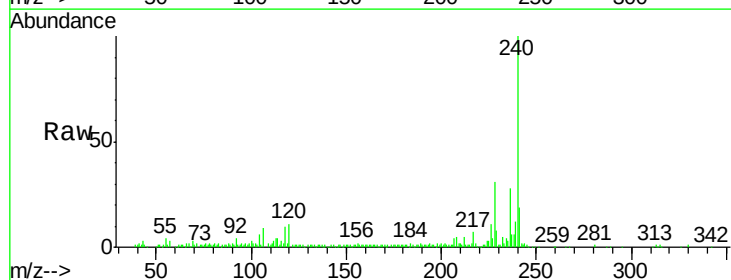
Tgt Ion:240 Resp: 79845

Ion Ratio Lower Upper

240 100

120 10.5 7.5 11.3

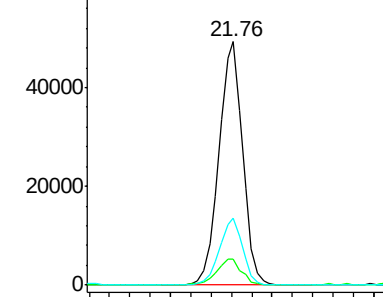
236 27.7 20.5 30.7



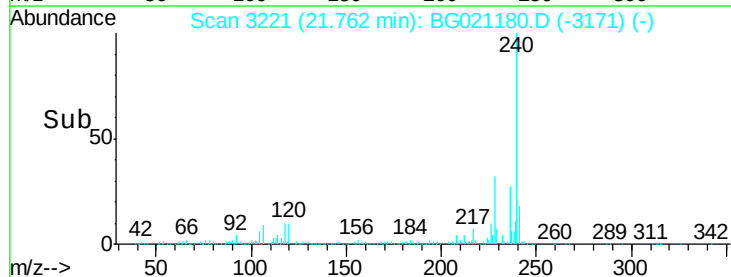
Abundance Ion 240.00 (239.70 to 240.70): E

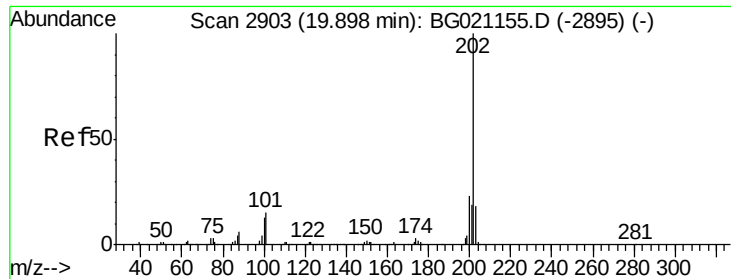
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time-->





#77

Pyrene

Concen: 68.68 ng

RT: 19.89 min Scan# 2903

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

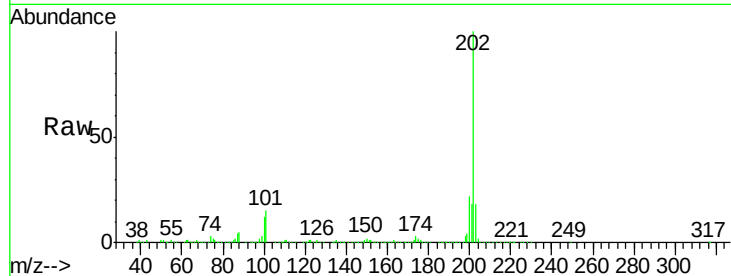
Tgt Ion:202 Resp: 327135

Ion Ratio Lower Upper

202 100

200 21.6 16.6 25.0

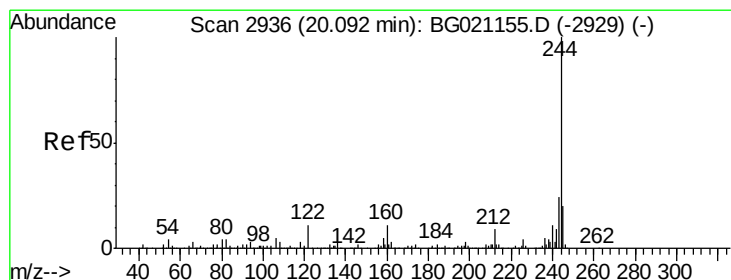
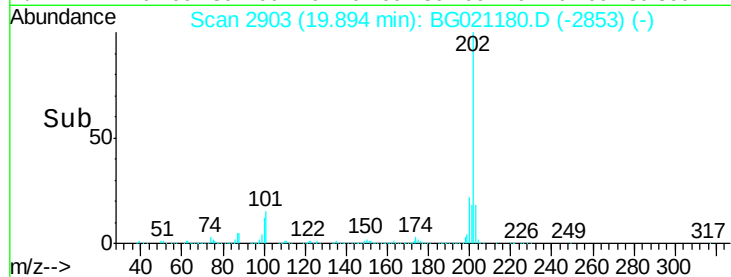
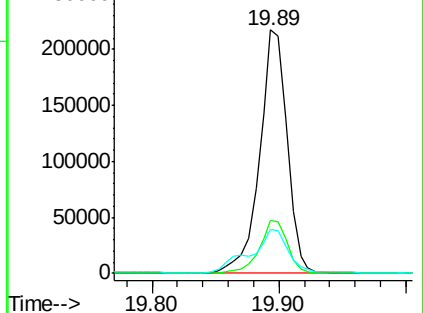
203 18.2 13.8 20.8



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: 60.88 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

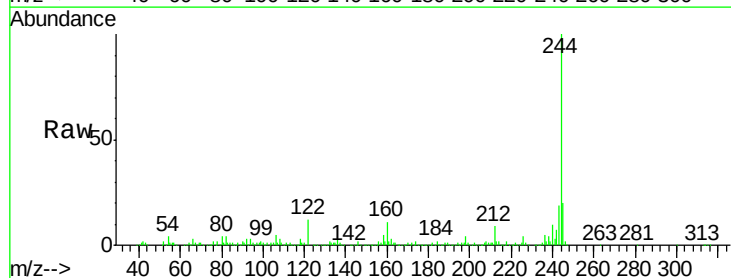
Tgt Ion:244 Resp: 200655

Ion Ratio Lower Upper

244 100

212 8.7 5.8 8.6#

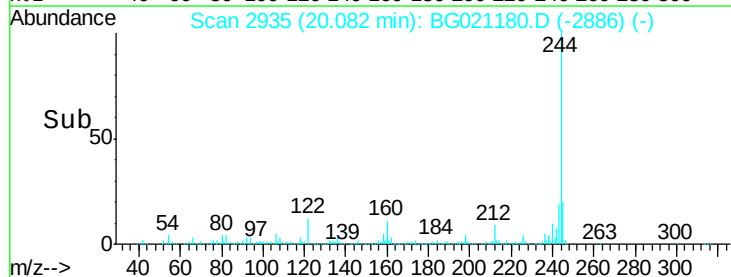
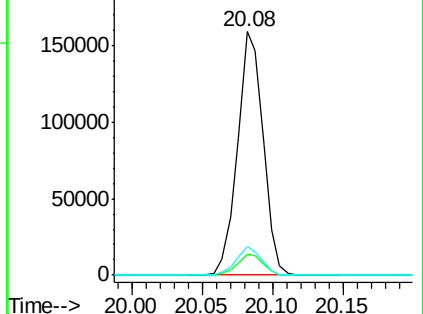
122 11.7 8.3 12.5

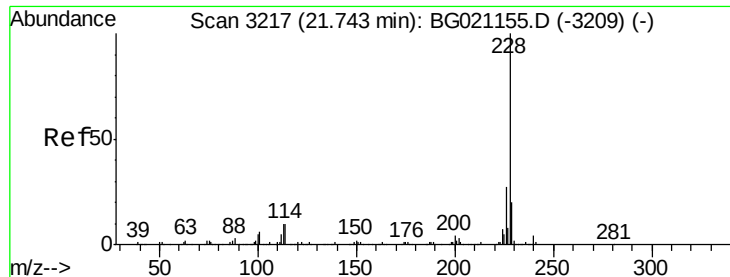


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 38.05 ng

RT: 21.74 min Scan# 3217

Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

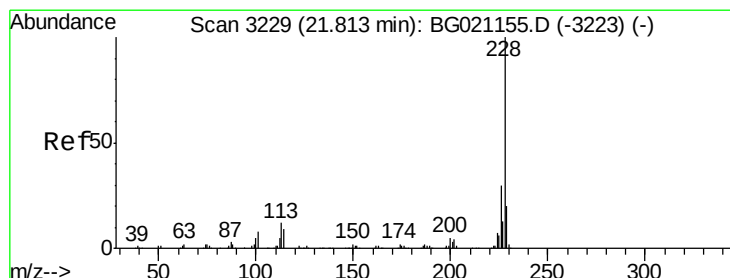
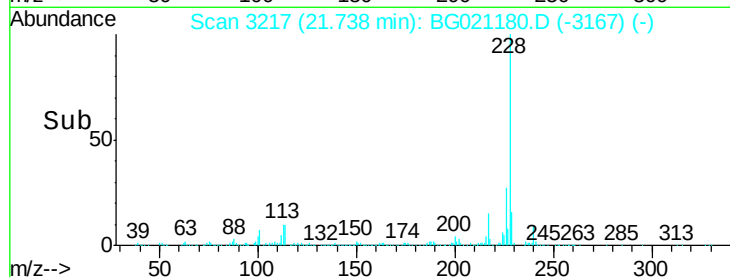
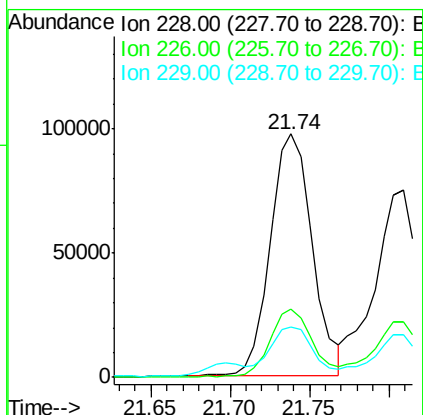
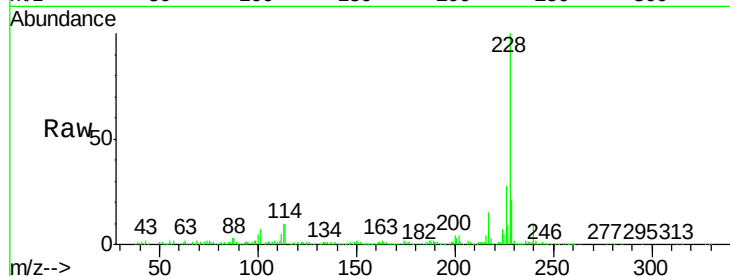
Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

Tgt Ion:	228	Resp:	179858
Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.7	34.1
229	20.5	15.5	23.3



#82

Chrysene

Concen: 31.35 ng

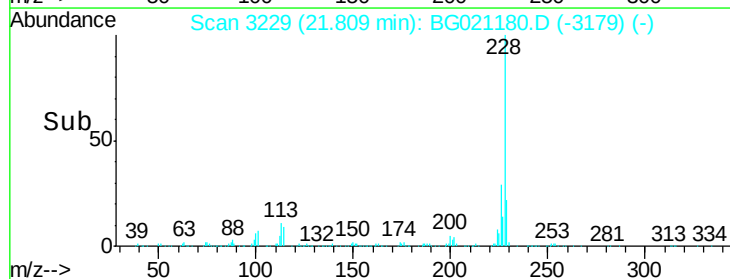
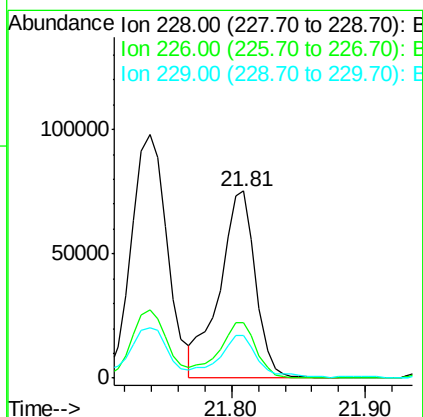
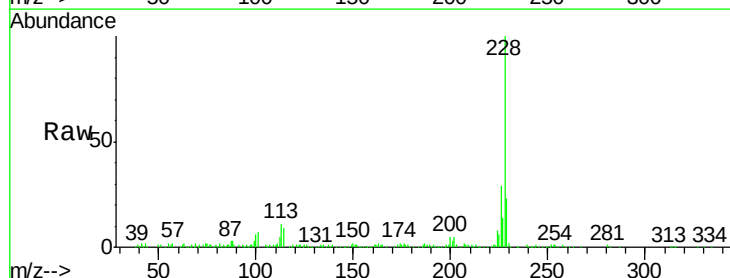
RT: 21.81 min Scan# 3229

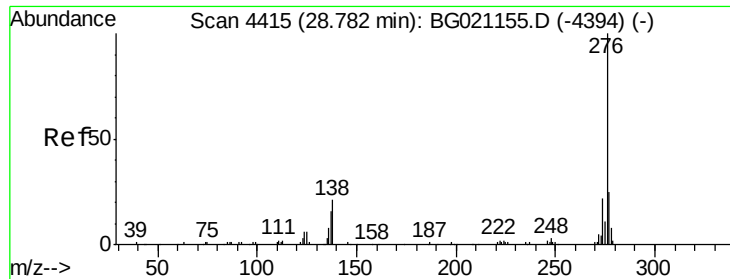
Delta R.T. -0.00 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Tgt Ion:	228	Resp:	140427
Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.7	35.5
229	22.8	16.7	25.1

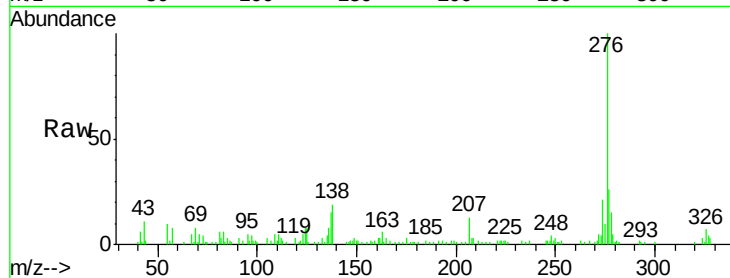




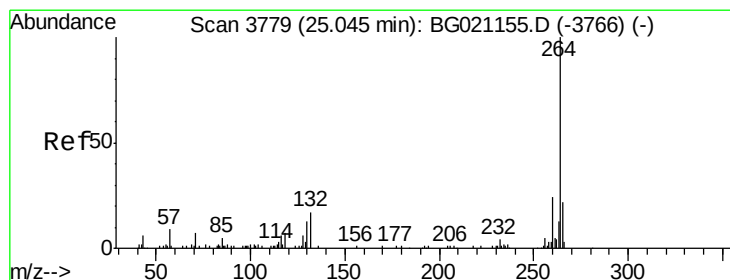
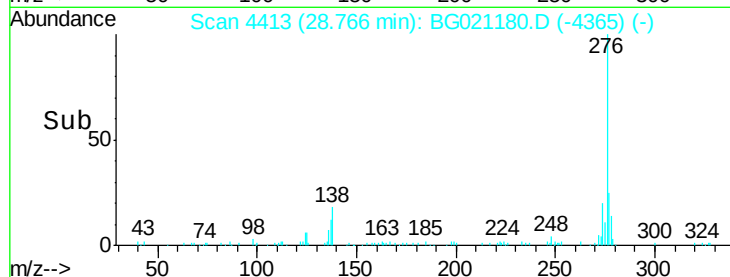
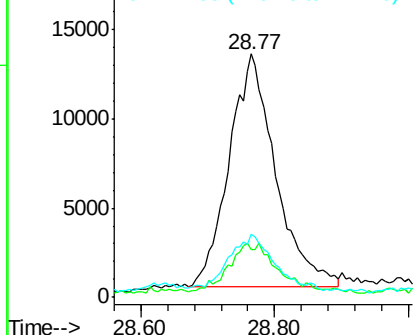
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.16 ng
 RT: 28.77 min Scan# 4413
 Delta R.T. -0.02 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Instrument :
 BNA_G
 ClientSampleId :
 40053+15(0-2)RE

Tgt Ion:276 Resp: 62448
 Ion Ratio Lower Upper
 276 100
 138 11.8 0.0 0.0#
 277 23.6 0.0 0.0#

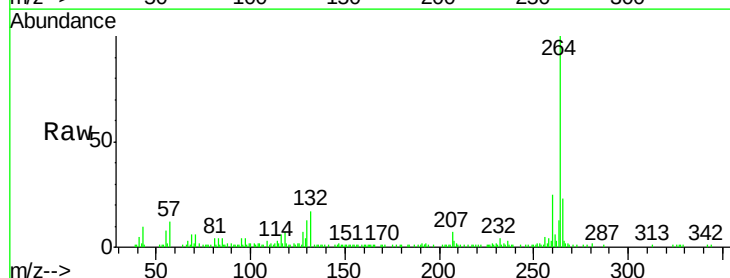


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

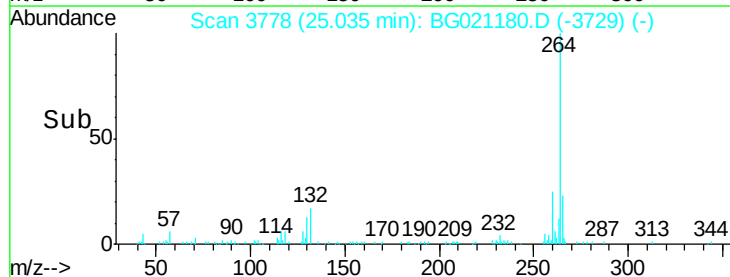
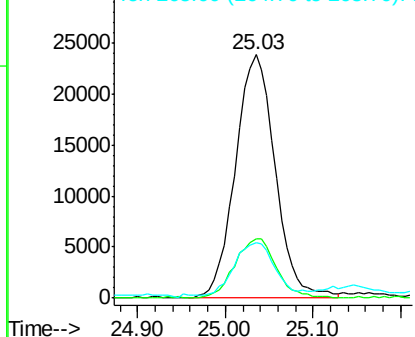


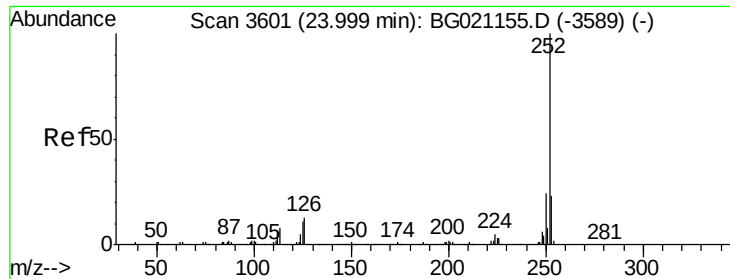
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.03 min Scan# 3778
 Delta R.T. -0.01 min
 Lab File: BG021180.D
 Acq: 1 Mar 2016 9:27

Tgt Ion:264 Resp: 73918
 Ion Ratio Lower Upper
 264 100
 260 24.6 18.5 27.7
 265 22.8 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

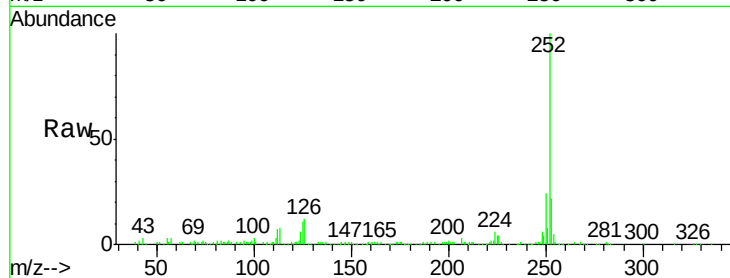




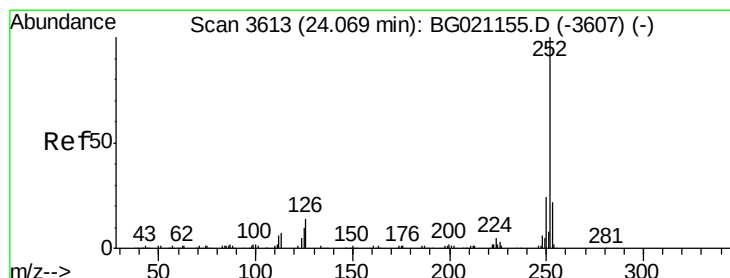
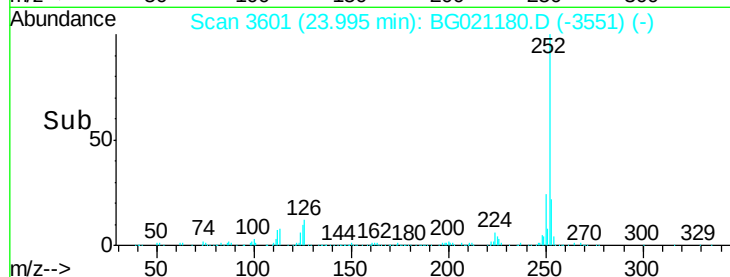
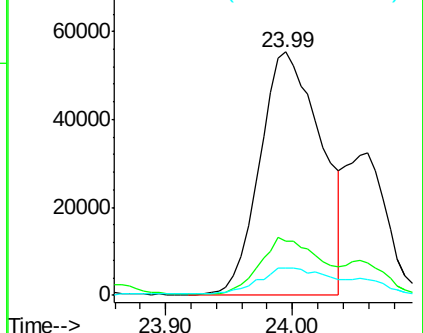
#87
Benzo(b)fluoranthene
Concen: 40.07 ng
RT: 23.99 min Scan# 3601
Delta R.T. -0.00 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Instrument :
BNA_G
ClientSampleId :
40053+15(0-2)RE

Tgt Ion:252 Resp: 186292
Ion Ratio Lower Upper
252 100
253 22.2 16.8 25.2
125 11.0 8.2 12.2

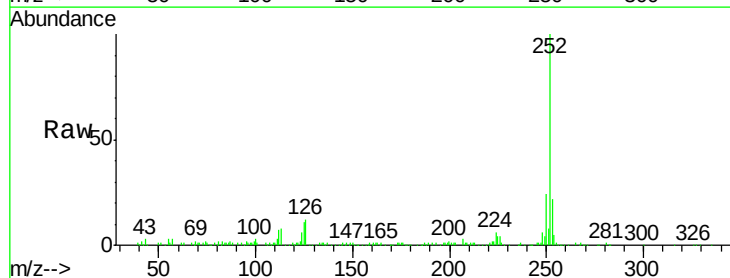


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

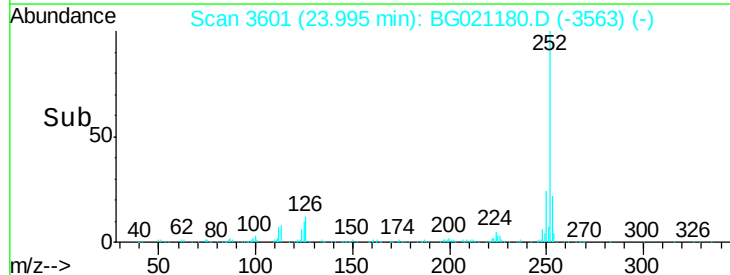
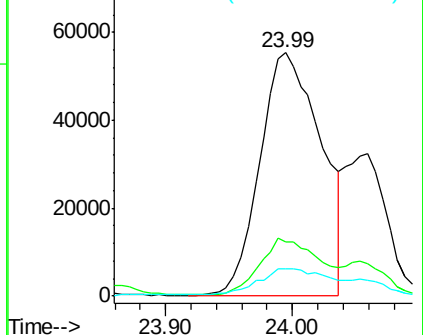


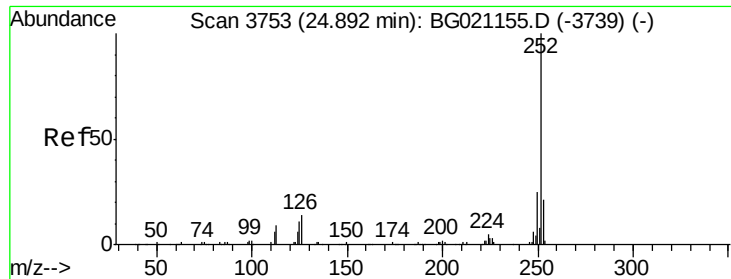
#88
Benzo(k)fluoranthene
Concen: 40.01 ng
RT: 23.99 min Scan# 3601
Delta R.T. -0.07 min
Lab File: BG021180.D
Acq: 1 Mar 2016 9:27

Tgt Ion:252 Resp: 186292
Ion Ratio Lower Upper
252 100
253 22.2 16.4 24.6
125 11.0 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: 30.34 ng

RT: 24.88 min Scan# 3752

Delta R.T. -0.01 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE

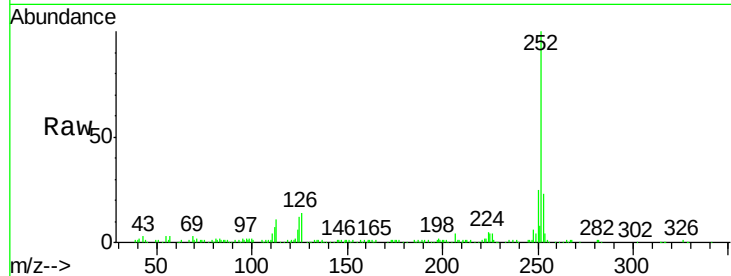
Tgt Ion:252 Resp: 136384

Ion Ratio Lower Upper

252 100

253 23.4 15.8 23.8

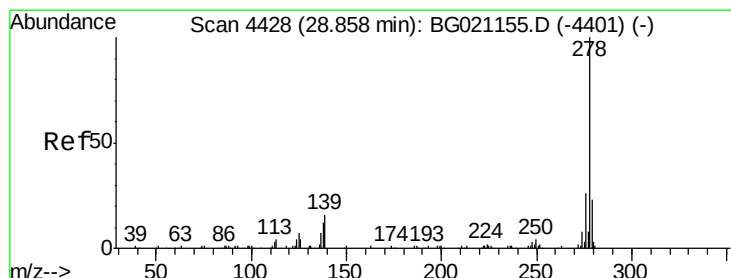
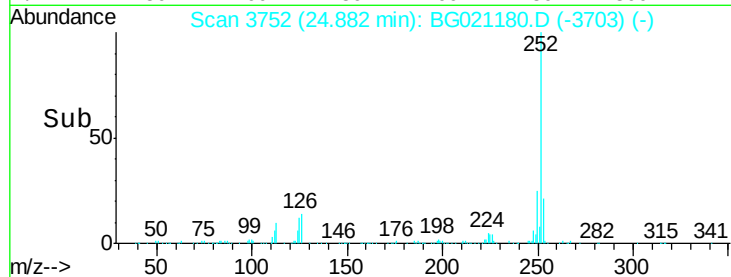
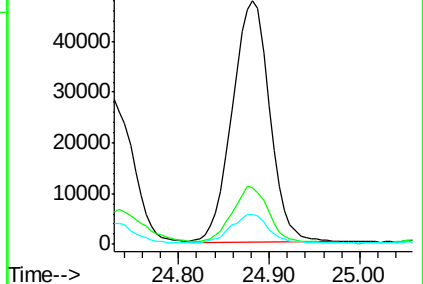
125 12.4 8.4 12.6



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



#90

Dibenzo(a,h)anthracene

Concen: 3.93 ng

RT: 28.81 min Scan# 4421

Delta R.T. -0.05 min

Lab File: BG021180.D

Acq: 1 Mar 2016 9:27

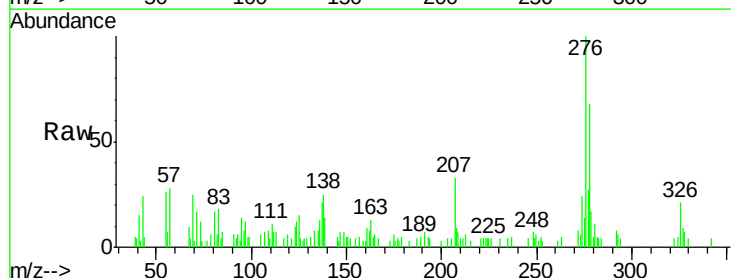
Tgt Ion:278 Resp: 17468

Ion Ratio Lower Upper

278 100

139 20.5 10.6 15.8#

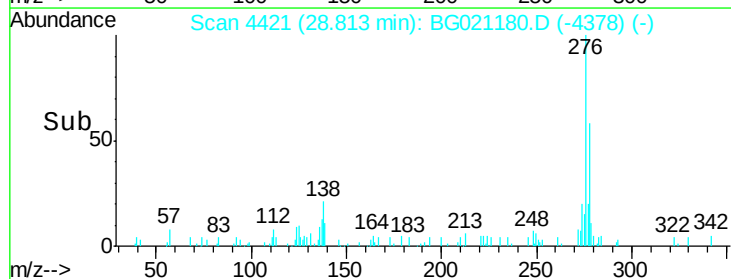
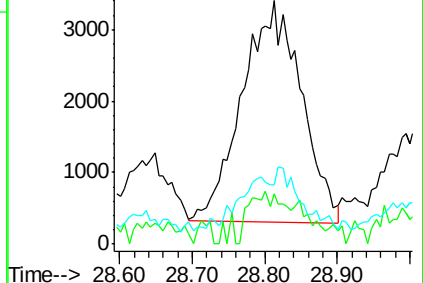
279 24.6 19.7 29.5

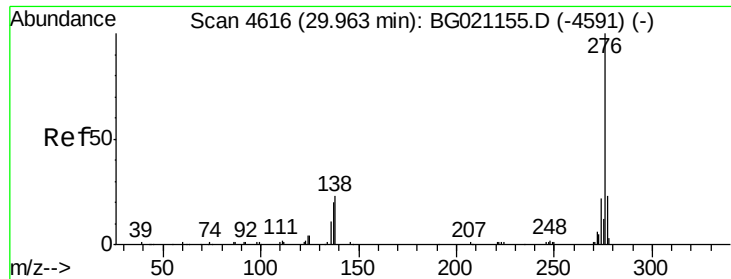


Abundance Ion 278.00 (277.70 to 278.70): E

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: 12.98 ng

RT: 29.93 min Scan# 4612

Delta R.T. -0.03 min

Lab File: BG021180.D

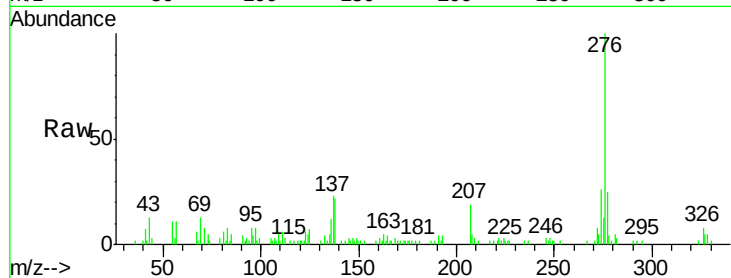
Acq: 1 Mar 2016 9:27

Instrument :

BNA_G

ClientSampleId :

40053+15(0-2)RE



Tgt Ion:	276	Resp:	55777
Ion	Ratio	Lower	Upper
276	100		
277	25.3	16.6	25.0#
138	22.5	14.6	21.8#

