

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG022716\
 Data File : BG021146.D
 Acq On : 28 Feb 2016 11:21
 Operator : UM/SJ
 Sample : H1442-01 20X
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Quant Time: Feb 29 00:35:19 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 26 16:39:44 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	9742	20.00	ng	-0.01
21) Naphthalene-d8	10.98	136	47195	20.00	ng	-0.01
38) Acenaphthene-d10	14.77	164	28463	20.00	ng	-0.01
63) Phenanthrene-d10	17.51	188	62133	20.00	ng	-0.01
75) Chrysene-d12	21.77	240	64400	20.00	ng	-0.02
86) Perylene-d12	25.05	264	59780	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.72	112	2937	5.28	ng	0.00
7) Phenol-d6	7.31	99	4507	5.44	ng	-0.02
23) Nitrobenzene-d5	9.32	82	3319	3.35	ng	-0.03
41) 2,4,6-Tribromophenol	16.25	330	1017	2.73	ng	-0.01
44) 2-Fluorobiphenyl	13.40	172	6471	2.91	ng	-0.01
78) Terphenyl-d14	20.09	244	7774	2.82	ng	-0.02

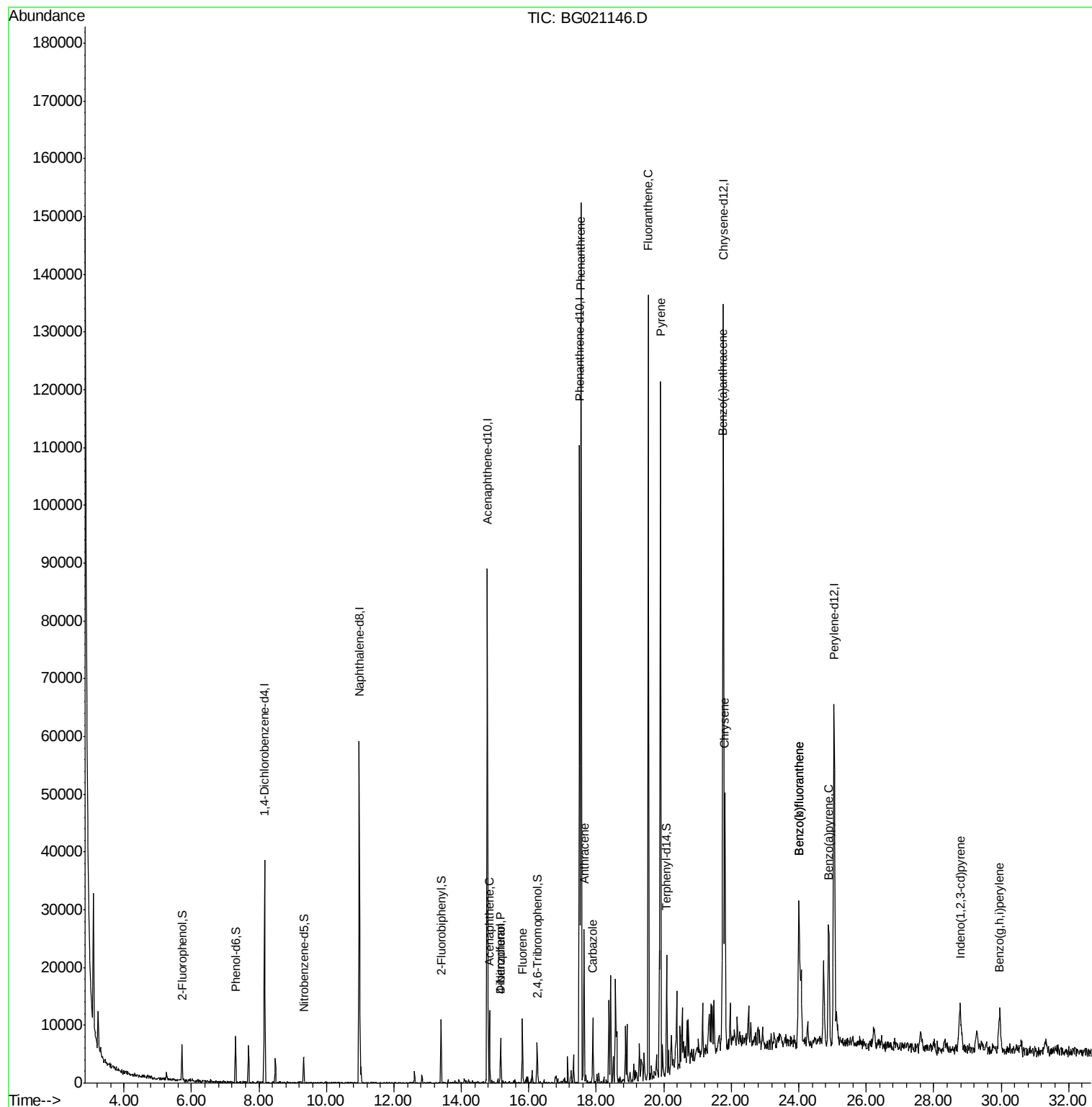
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
51) Acenaphthene	14.83	154	4695	2.39	ng	93
54) Dibenzofuran	15.16	168	5309	2.14	ng	91
55) 4-Nitrophenol	15.17	139	2492	5.72	ng	# 7
57) Fluorene	15.81	166	5189	2.15	ng	90
70) Phenanthrene	17.55	178	83704	25.04	ng	97
71) Anthracene	17.64	178	16523	4.91	ng	98
72) Carbazole	17.91	167	7562	2.60	ng	98
74) Fluoranthene	19.54	202	79185	18.88	ng	99
77) Pyrene	19.90	202	69806	19.58	ng	98
80) Benzo(a)anthracene	21.75	228	31883	8.60	ng	98
82) Chrysene	21.81	228	28960	8.12	ng	99
85) Indeno(1,2,3-cd)pyrene	28.79	276	14161	3.29	ng	# 100
87) Benzo(b)fluoranthene	24.00	252	29701	7.95	ng	95
88) Benzo(k)fluoranthene	24.00	252	29701	8.06	ng	94
89) Benzo(a)pyrene	24.89	252	23224	6.47	ng	96
91) Benzo(g,h,i)perylene	29.95	276	13092	3.76	ng	# 93

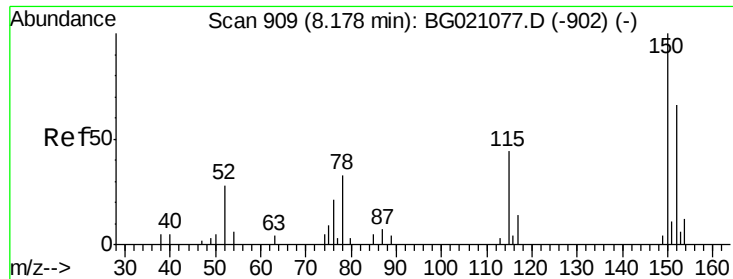
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG022716\
Data File : BG021146.D
Acq On : 28 Feb 2016 11:21
Operator : UM/SJ
Sample : H1442-01 20X
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Quant Time: Feb 29 00:35:19 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG022616.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 26 16:39:44 2016
Response via : Initial Calibration



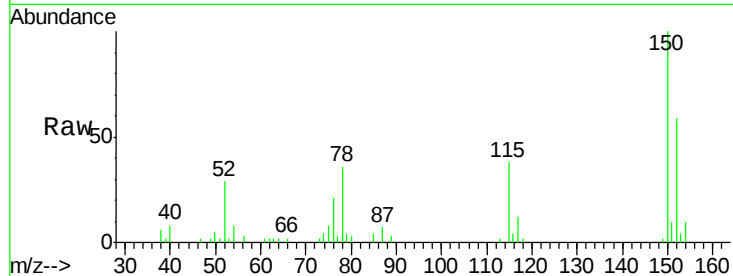


#1

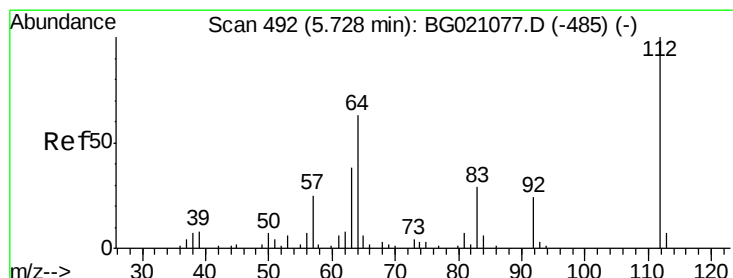
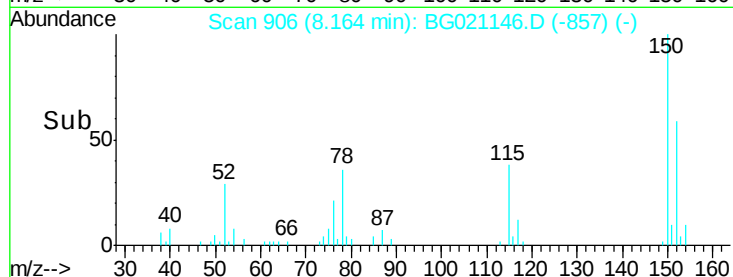
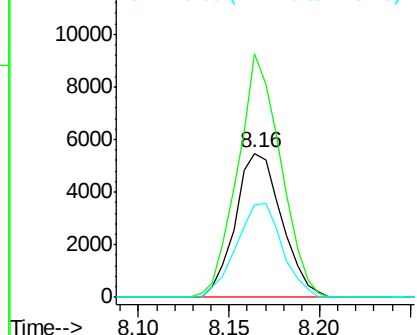
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.16 min Scan# 906
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tgt Ion:152 Resp: 9742
Ion Ratio Lower Upper
152 100
150 168.9 123.4 185.2
115 64.5 43.3 64.9



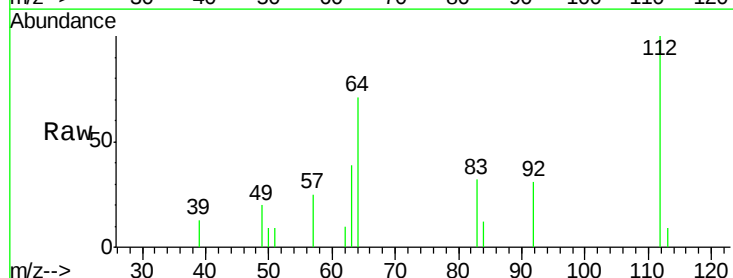
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



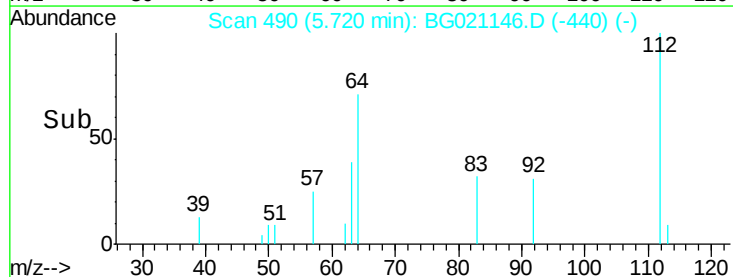
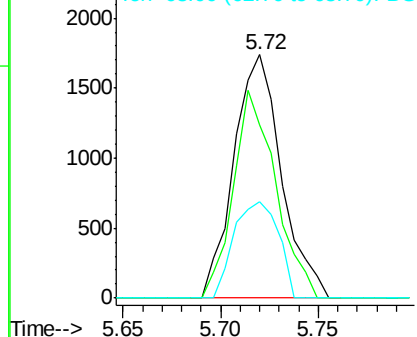
#5

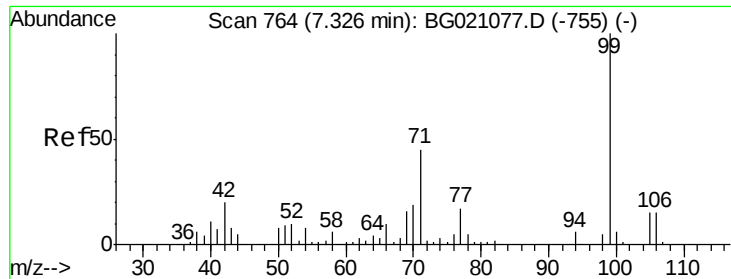
2-Fluorophenol
Concen: 5.28 ng
RT: 5.72 min Scan# 490
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:112 Resp: 2937
Ion Ratio Lower Upper
112 100
64 71.0 42.6 63.8#
63 39.4 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: 5.44 ng

RT: 7.31 min Scan# 760

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

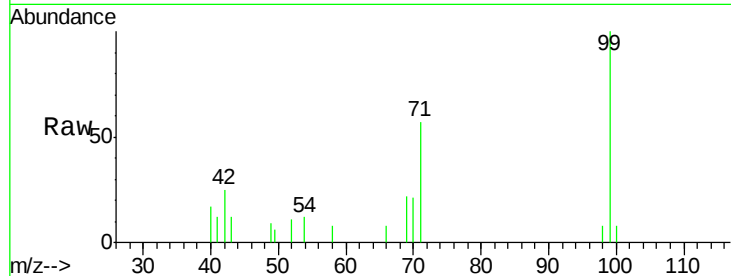
Tgt Ion: 99 Resp: 4507

Ion Ratio Lower Upper

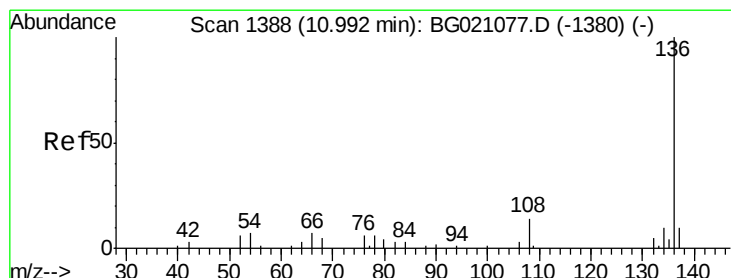
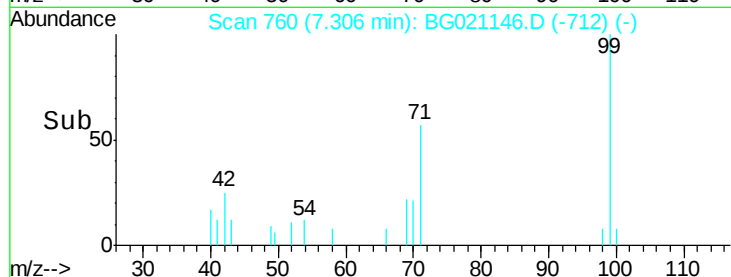
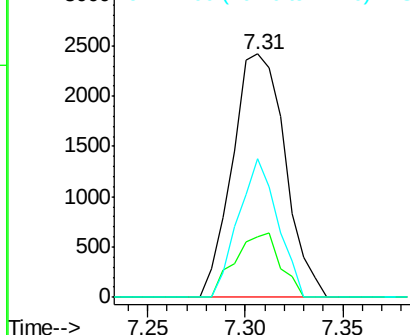
99 100

42 24.8 13.2 19.8#

71 56.9 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: 10.98 min Scan# 1385

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Tgt Ion: 136 Resp: 47195

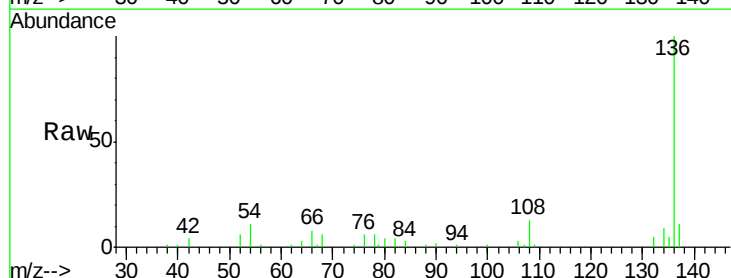
Ion Ratio Lower Upper

136 100

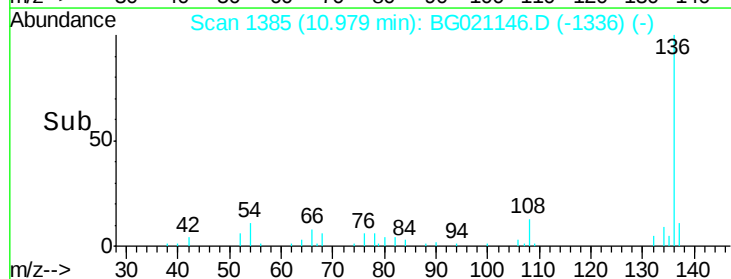
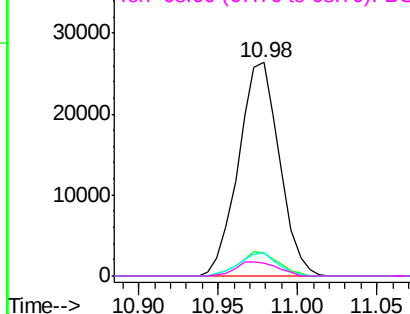
137 11.1 8.8 13.2

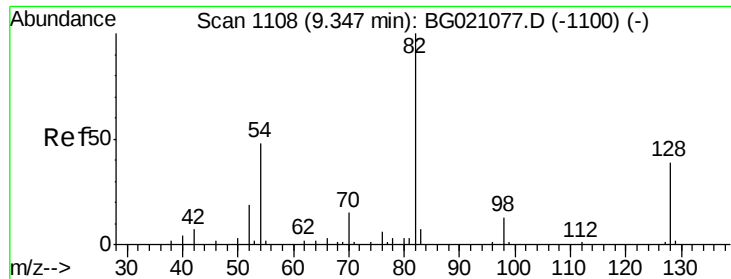
54 10.6 6.9 10.3#

68 6.3 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

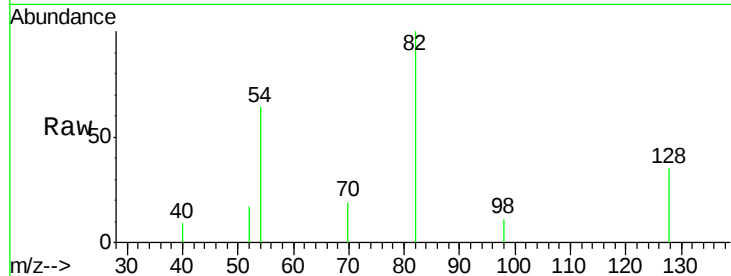




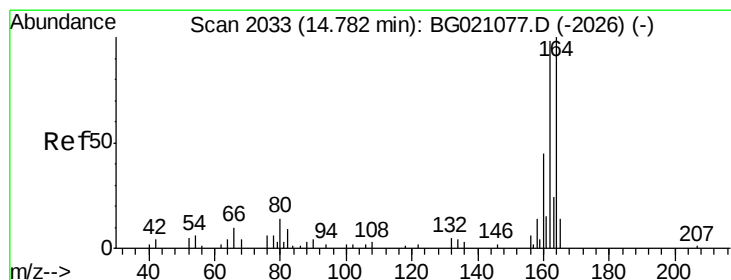
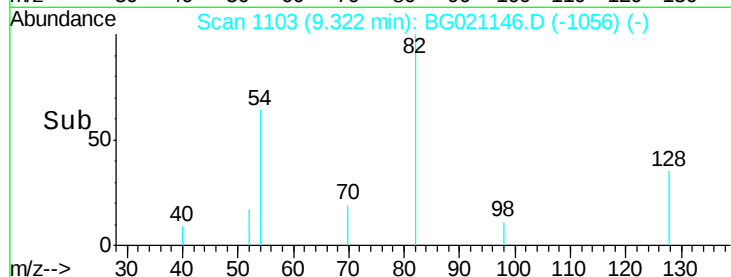
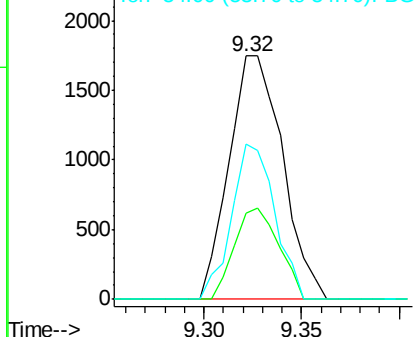
#23
 Nitrobenzene-d5
 Concen: 3.35 ng
 RT: 9.32 min Scan# 1103
 Delta R.T. -0.03 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Tgt Ion: 82 Resp: 3319
 Ion Ratio Lower Upper
 82 100
 128 35.3 36.3 54.5#
 54 63.9 37.6 56.4#

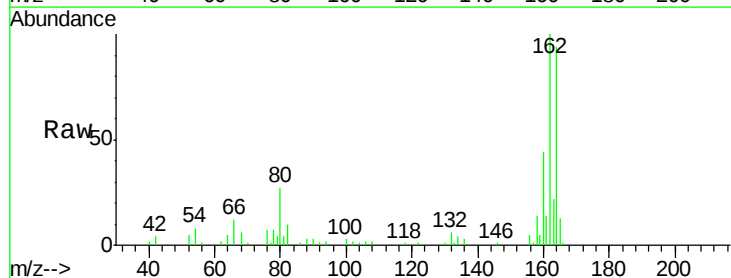


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

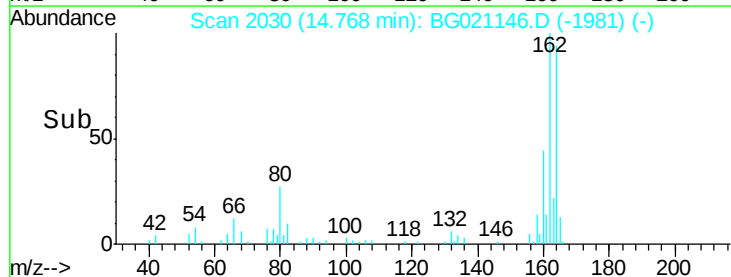
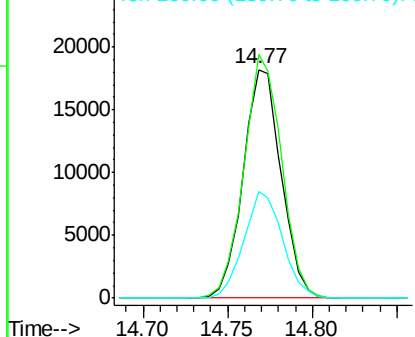


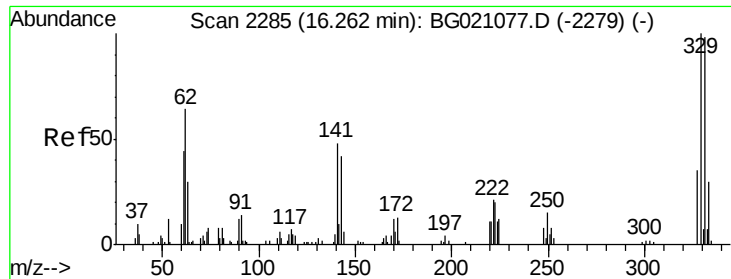
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.77 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion: 164 Resp: 28463
 Ion Ratio Lower Upper
 164 100
 162 106.5 80.6 120.8
 160 46.7 36.5 54.7



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

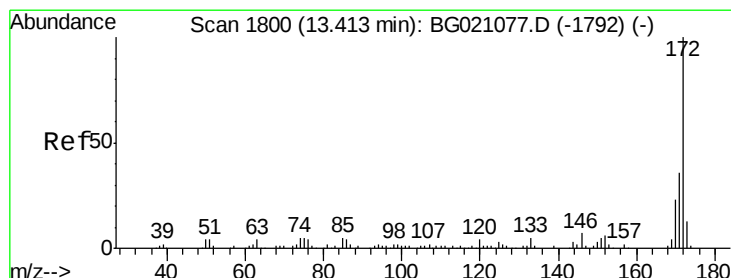
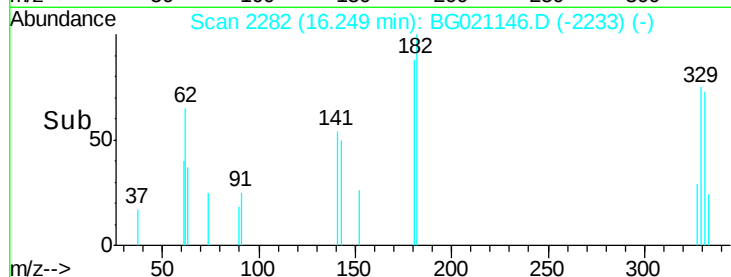
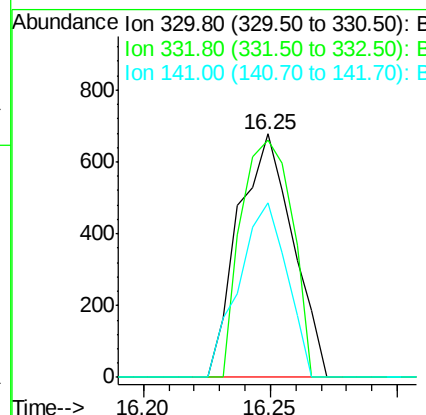
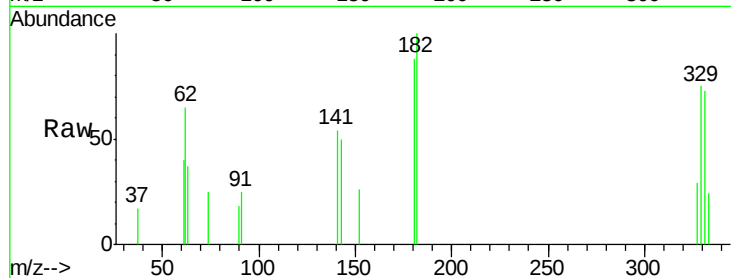




#41
 2,4,6-Tribromophenol
 Concen: 2.73 ng
 RT: 16.25 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

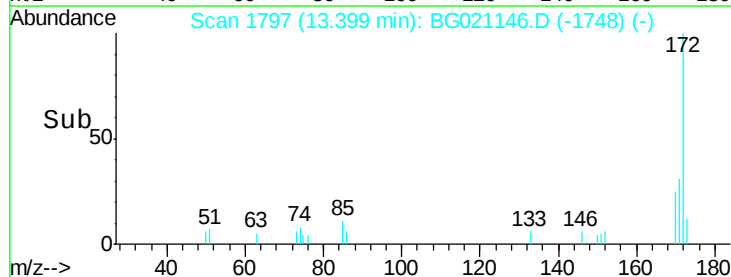
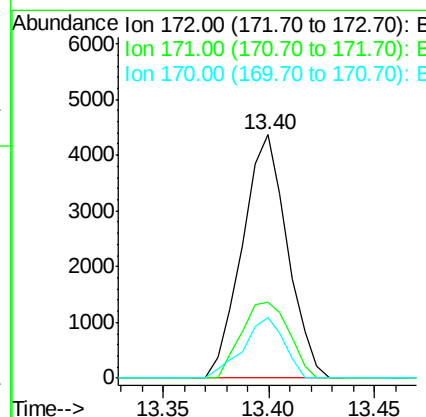
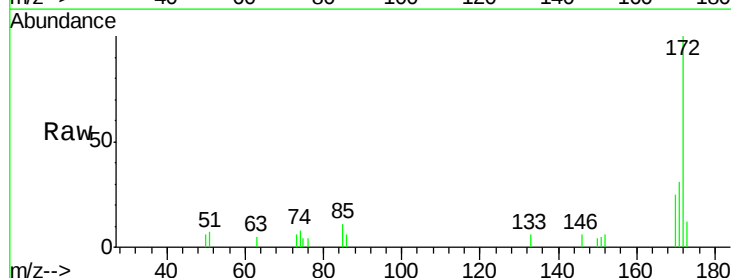
Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

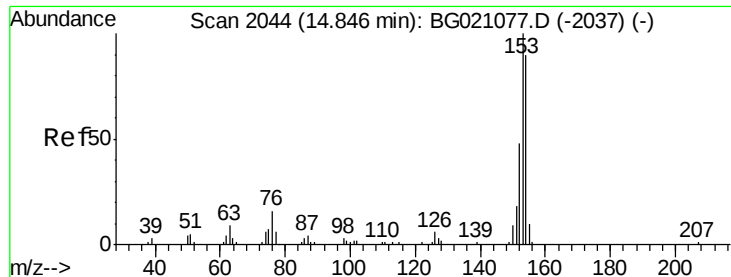
Tgt Ion:330 Resp: 1017
 Ion Ratio Lower Upper
 330 100
 332 91.4 77.4 116.0
 141 63.1 35.3 52.9#



#44
 2-Fluorobiphenyl
 Concen: 2.91 ng
 RT: 13.40 min Scan# 1797
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion:172 Resp: 6471
 Ion Ratio Lower Upper
 172 100
 171 31.3 29.4 44.0
 170 25.0 19.8 29.8





#51

Acenaphthene

Concen: 2.39 ng

RT: 14.83 min Scan# 2041

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

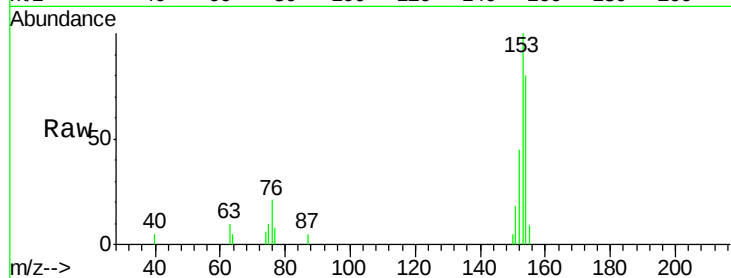
Tgt Ion:154 Resp: 4695

Ion Ratio Lower Upper

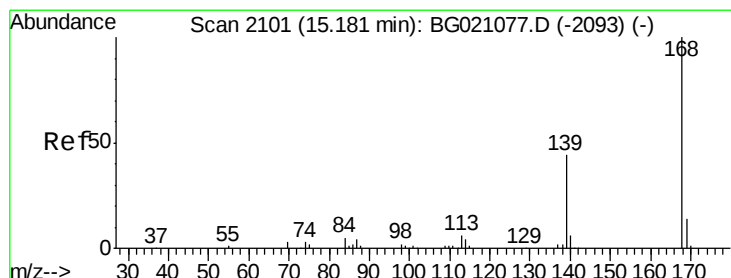
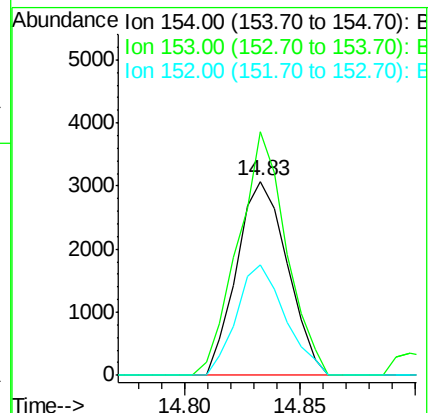
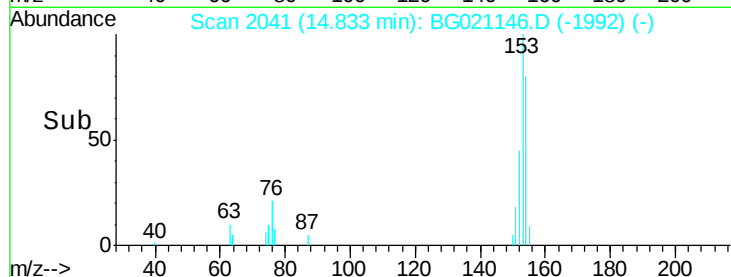
154 100

153 125.7 94.2 141.2

152 57.1 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: 2.14 ng

RT: 15.16 min Scan# 2097

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

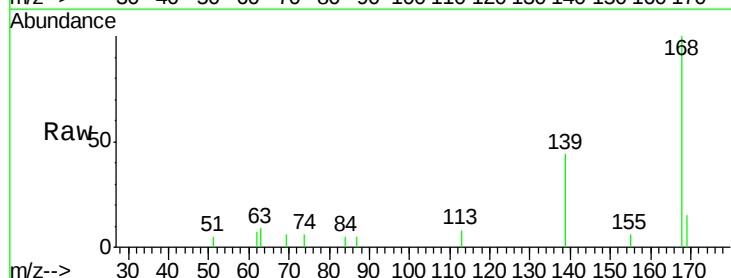
Tgt Ion:168 Resp: 5309

Ion Ratio Lower Upper

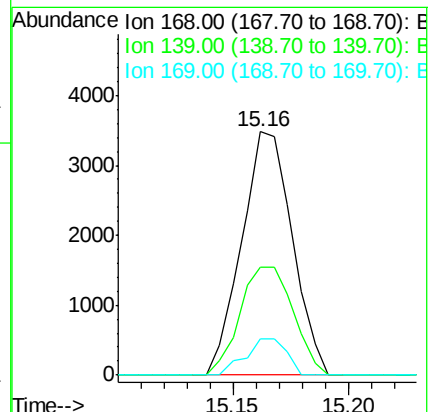
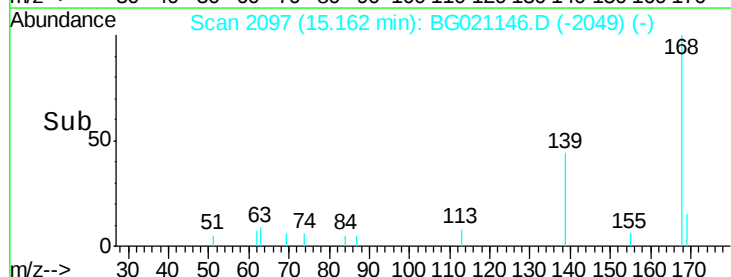
168 100

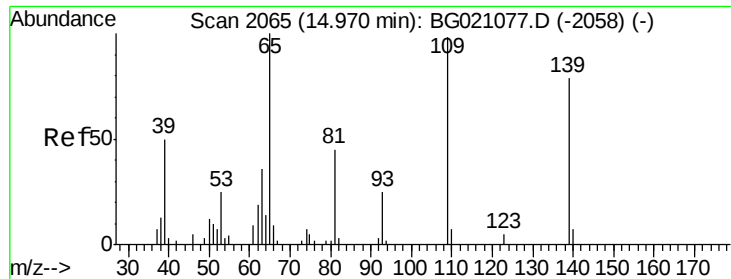
139 44.2 29.8 44.8

169 15.1 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: 5.72 ng

RT: 15.17 min Scan# 2098

Delta R.T. 0.20 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

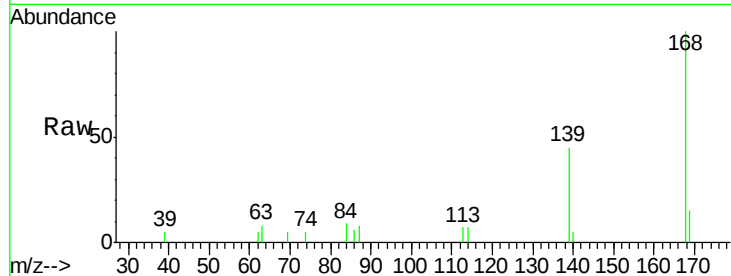
Tgt Ion:139 Resp: 2492

Ion Ratio Lower Upper

139 100

109 0.0 54.1 94.1#

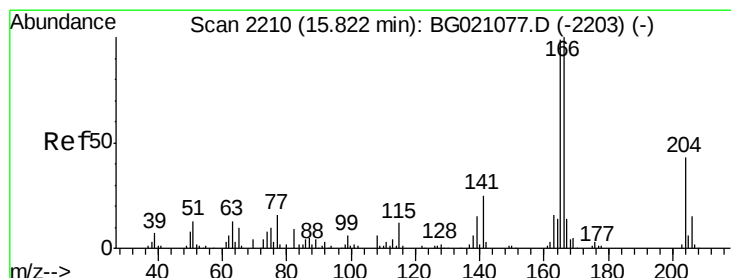
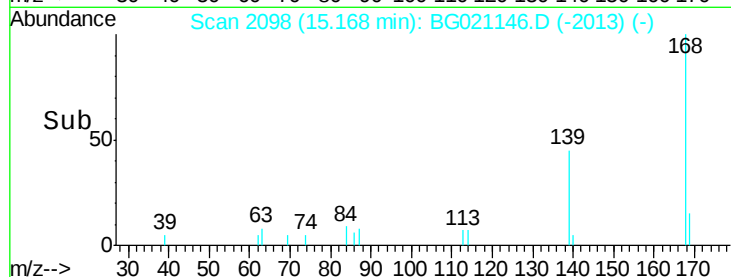
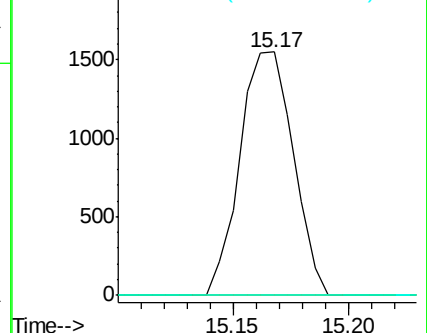
65 0.0 73.4 113.4#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): B



#57

Fluorene

Concen: 2.15 ng

RT: 15.81 min Scan# 2207

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

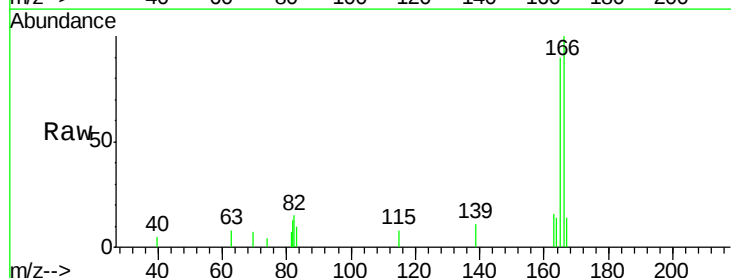
Tgt Ion:166 Resp: 5189

Ion Ratio Lower Upper

166 100

165 89.9 81.3 121.9

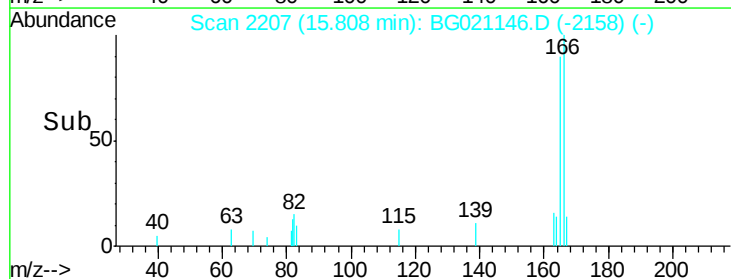
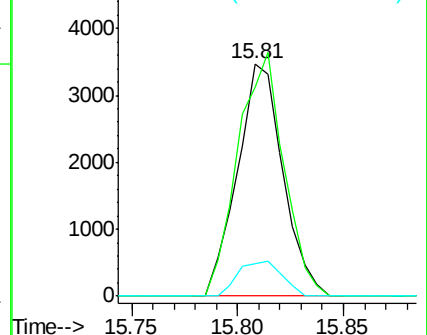
167 13.9 10.6 16.0

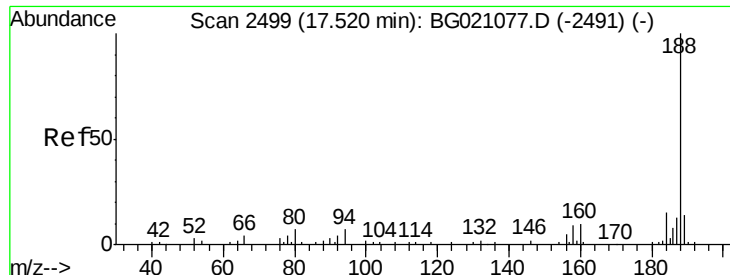


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

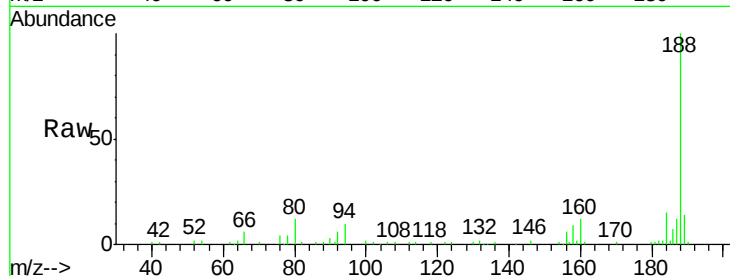




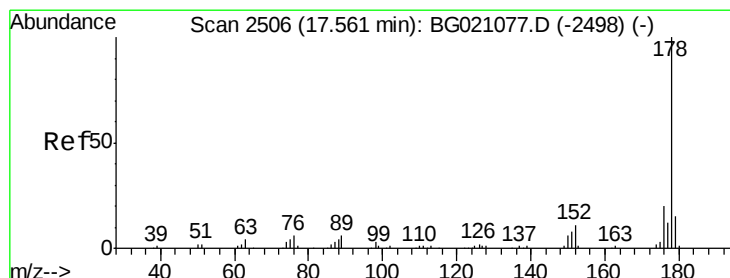
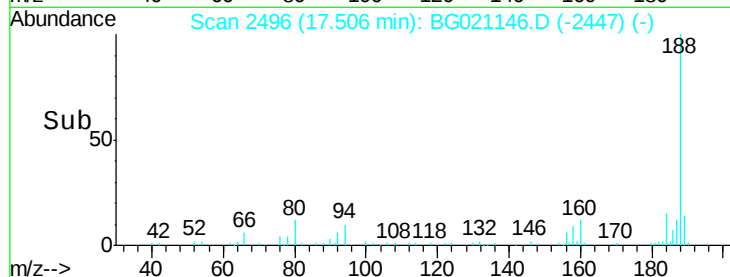
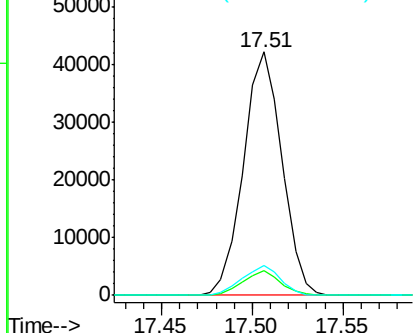
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.51 min Scan# 2496
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

Tgt Ion:188 Resp: 62133
Ion Ratio Lower Upper
188 100
94 10.2 8.2 12.4
80 12.2 9.2 13.8

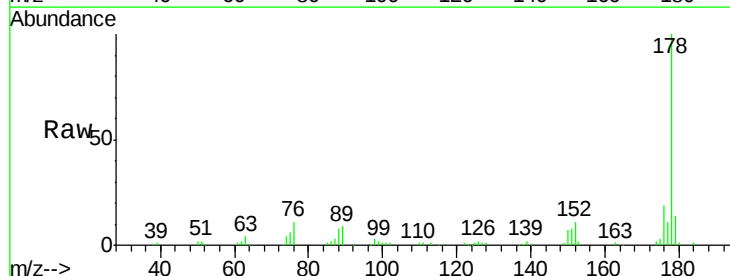


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGC
Ion 80.00 (79.70 to 80.70): BGC

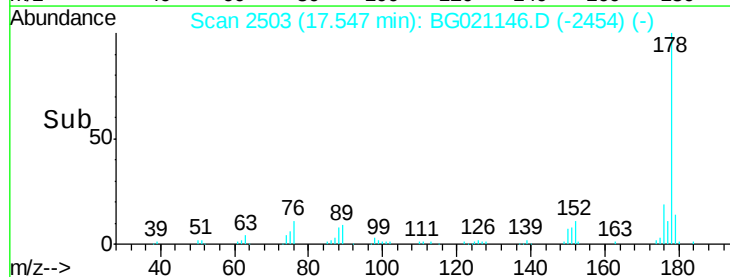
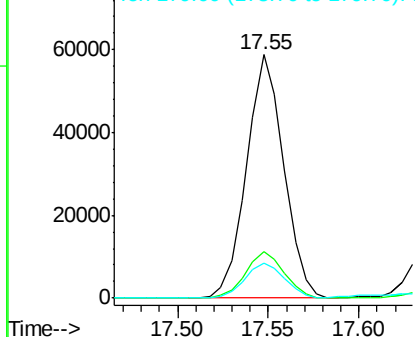


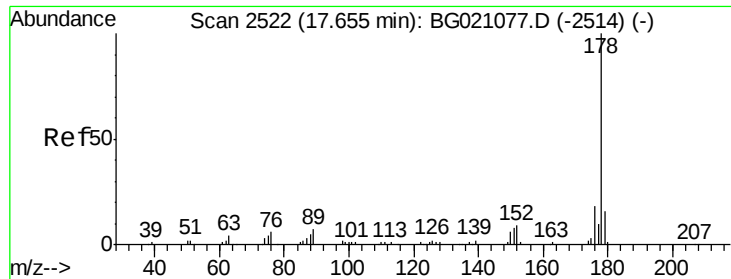
#70
Phenanthrene
Concen: 25.04 ng
RT: 17.55 min Scan# 2503
Delta R.T. -0.01 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:178 Resp: 83704
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.4
179 14.3 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

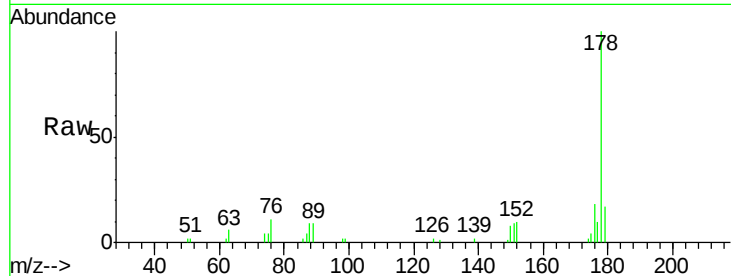




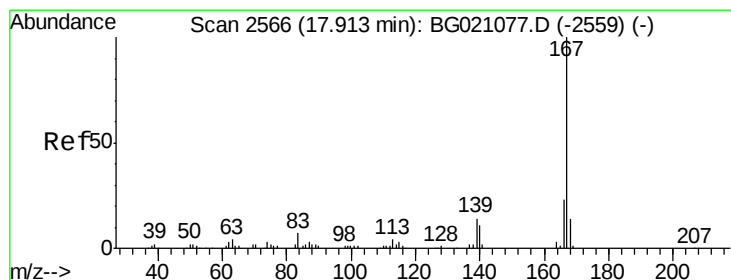
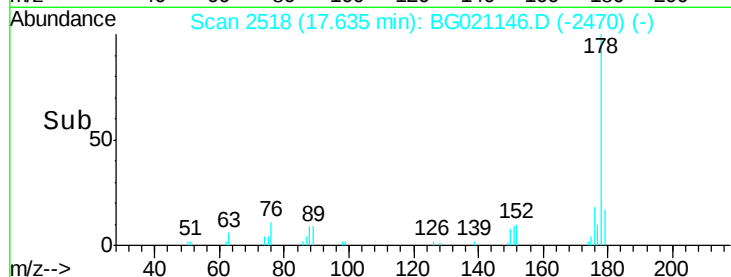
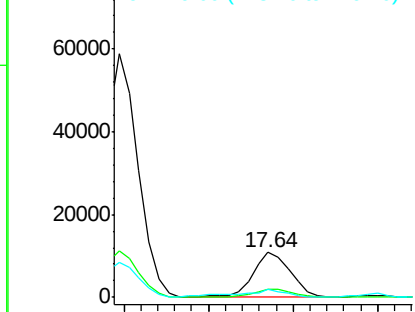
#71
 Anthracene
 Concen: 4.91 ng
 RT: 17.64 min Scan# 2518
 Delta R.T. -0.02 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Tgt Ion:178 Resp: 16523
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.8 22.2
 179 17.0 12.6 19.0

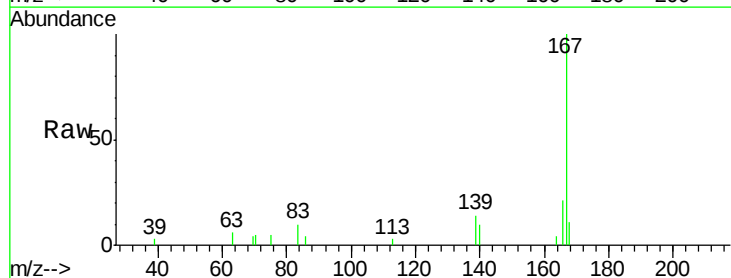


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

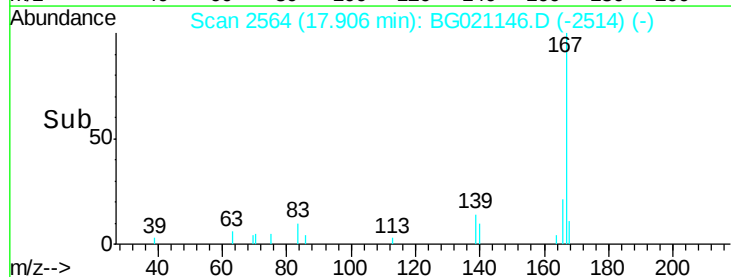
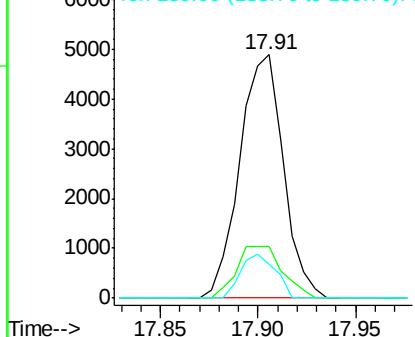


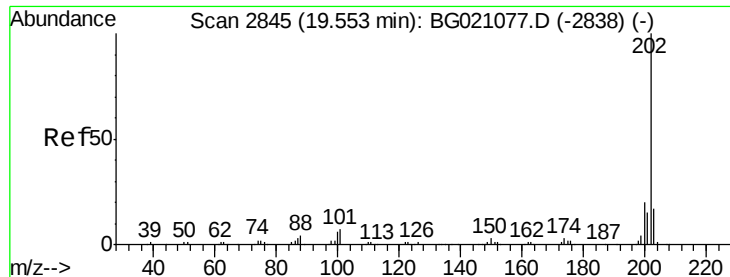
#72
 Carbazole
 Concen: 2.60 ng
 RT: 17.91 min Scan# 2564
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion:167 Resp: 7562
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.5 26.3
 139 13.7 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: 18.88 ng

RT: 19.54 min Scan# 2843

Delta R.T. -0.01 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

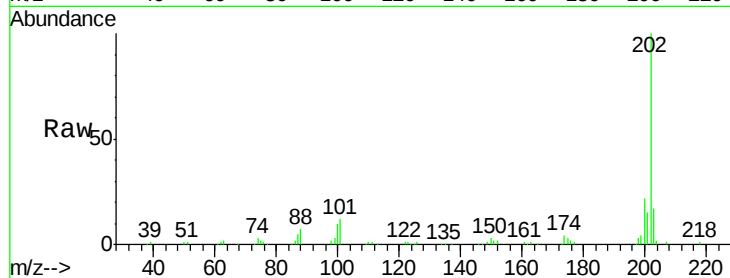
Tgt Ion:202 Resp: 79185

Ion Ratio Lower Upper

202 100

101 11.7 0.0 32.5

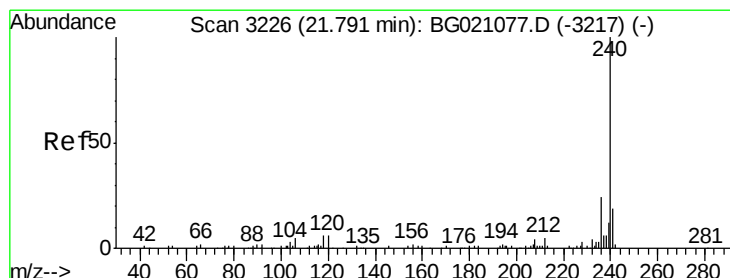
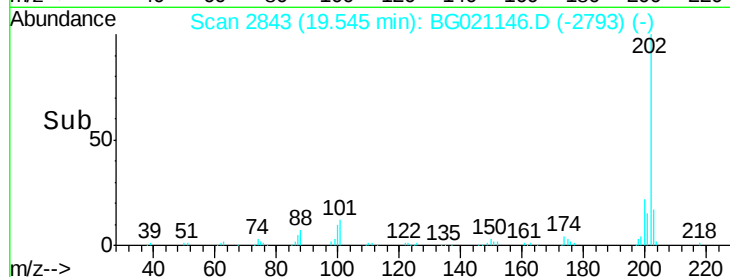
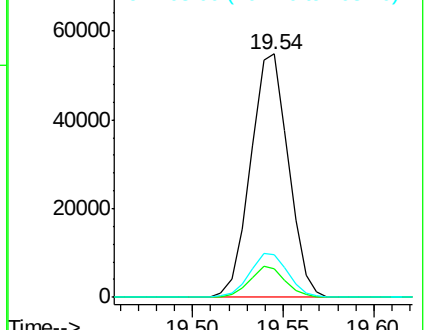
203 17.4 0.0 37.6



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: 21.77 min Scan# 3222

Delta R.T. -0.02 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

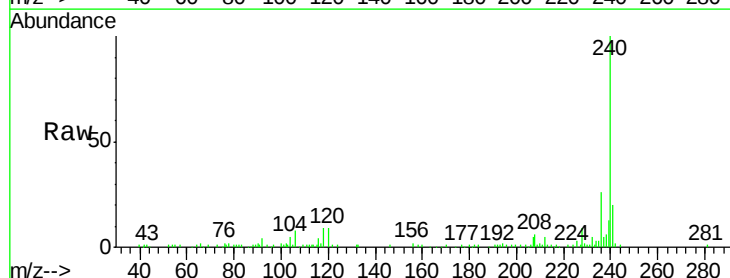
Tgt Ion:240 Resp: 64400

Ion Ratio Lower Upper

240 100

120 9.1 7.5 11.3

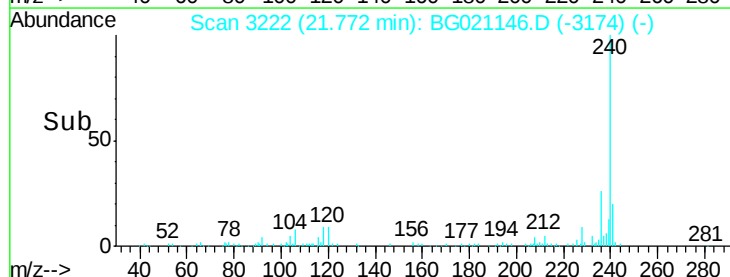
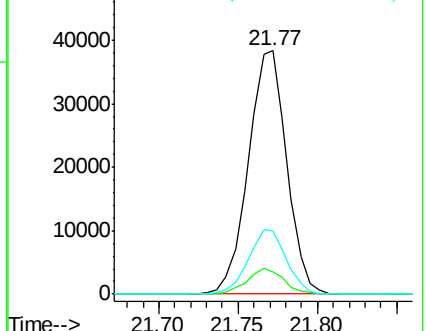
236 26.2 20.5 30.7

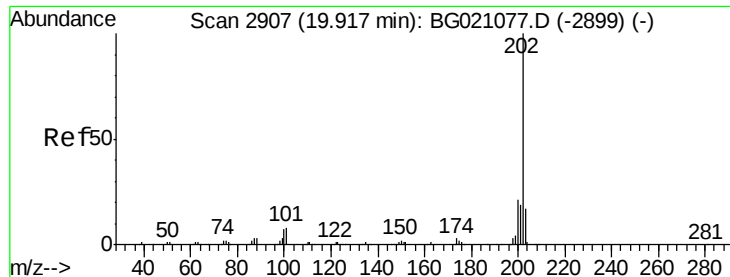


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

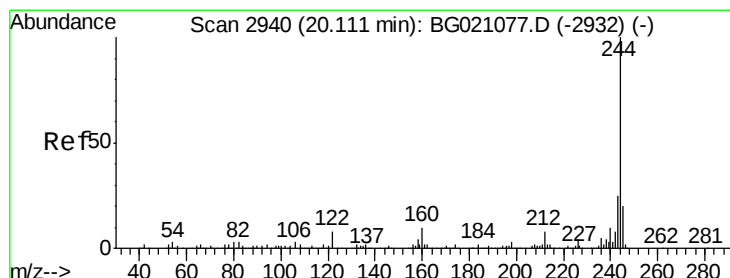
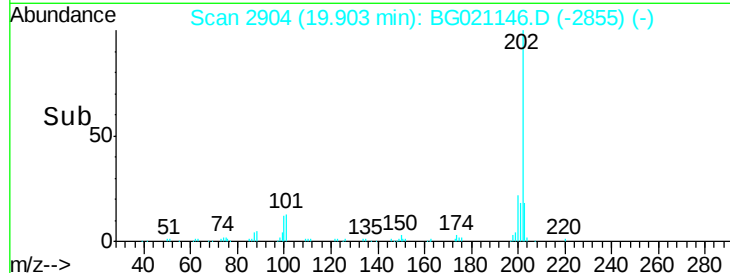
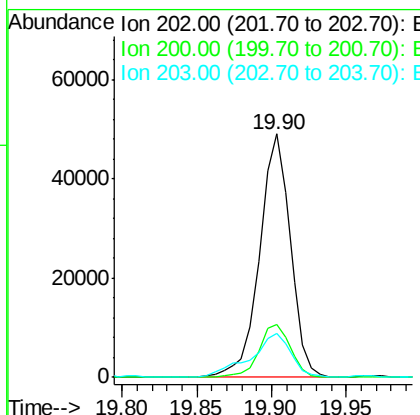
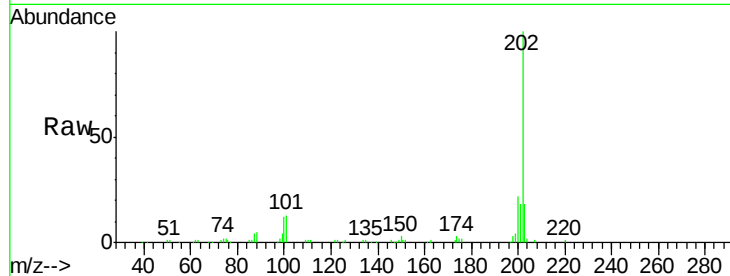




#77
 Pyrene
 Concen: 19.58 ng
 RT: 19.90 min Scan# 2904
 Delta R.T. -0.01 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

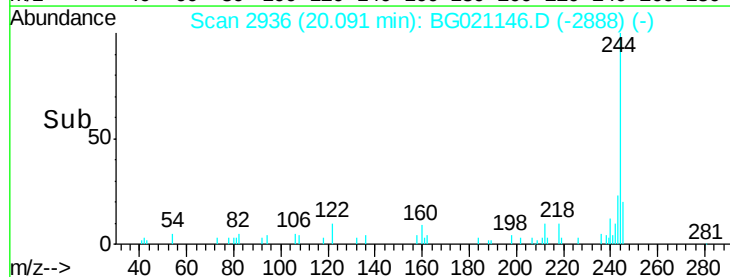
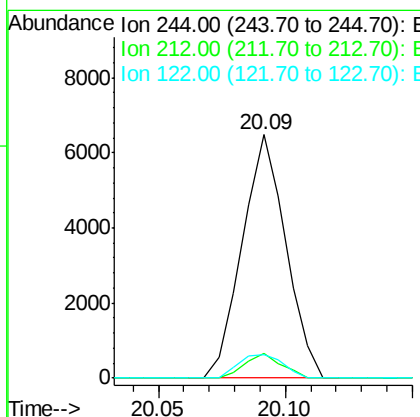
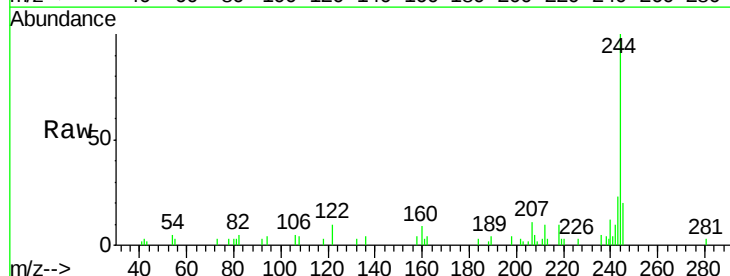
Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

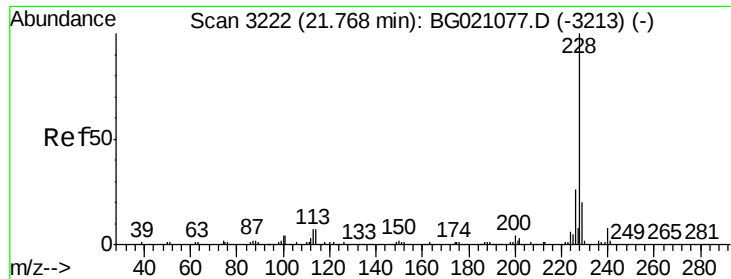
Tgt Ion:202 Resp: 69806
 Ion Ratio Lower Upper
 202 100
 200 21.5 16.6 25.0
 203 18.1 13.8 20.8



#78
 Terphenyl-d14
 Concen: 2.82 ng
 RT: 20.09 min Scan# 2936
 Delta R.T. -0.02 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion:244 Resp: 7774
 Ion Ratio Lower Upper
 244 100
 212 10.1 5.8 8.6#
 122 9.8 8.3 12.5

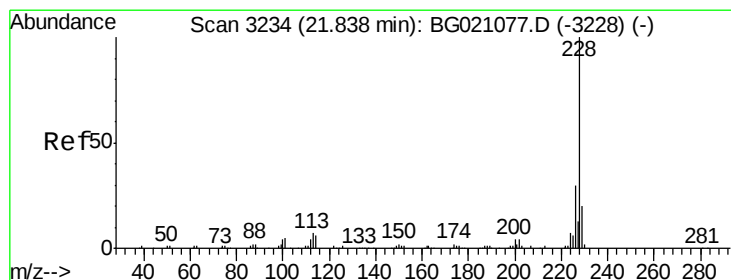
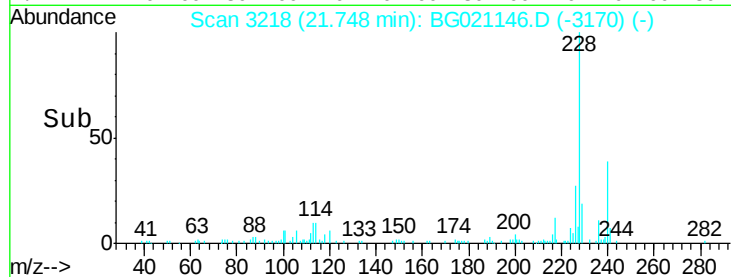
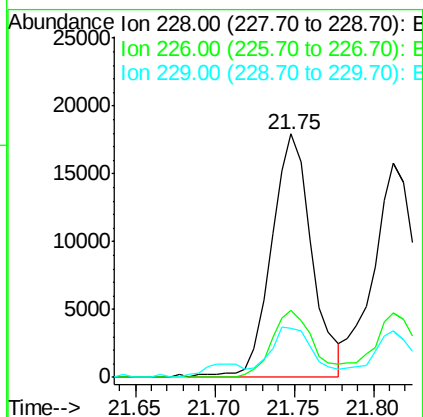
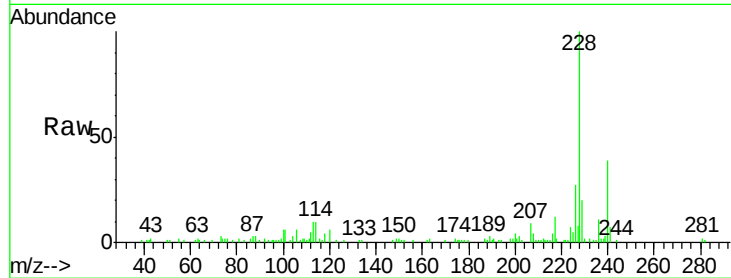




#80
Benzo(a)anthracene
Concen: 8.60 ng
RT: 21.75 min Scan# 3218
Delta R.T. -0.02 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

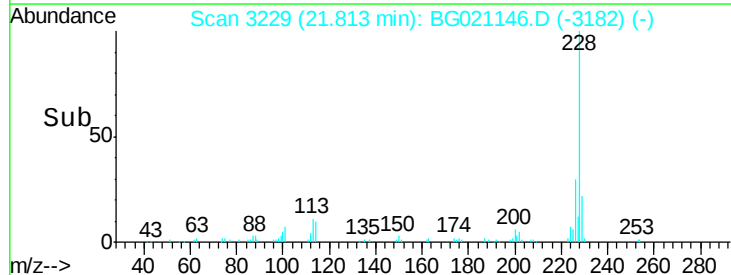
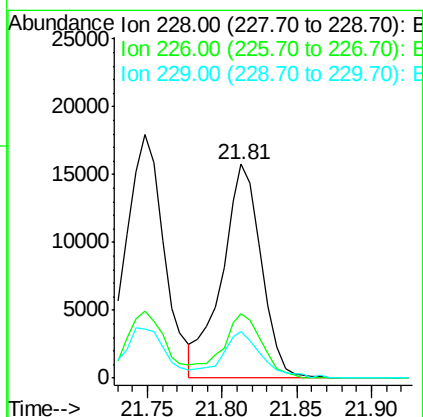
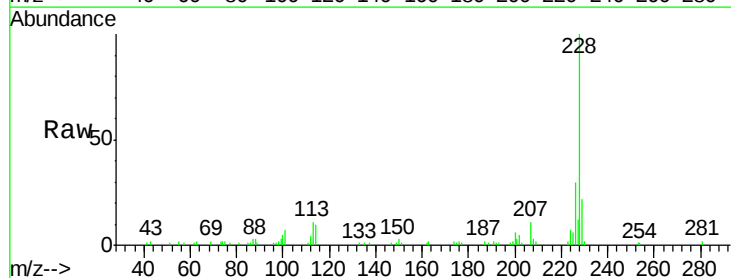
Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

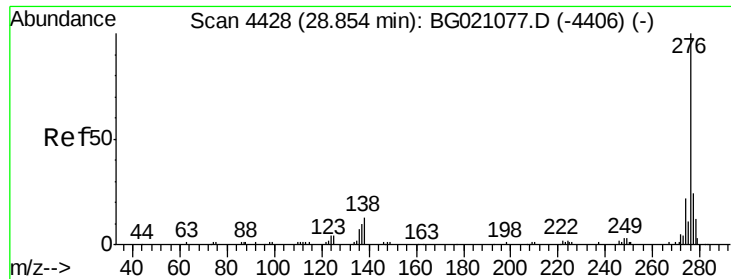
Tgt Ion:228 Resp: 31883
Ion Ratio Lower Upper
228 100
226 27.4 22.7 34.1
229 19.9 15.5 23.3



#82
Chrysene
Concen: 8.12 ng
RT: 21.81 min Scan# 3229
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:228 Resp: 28960
Ion Ratio Lower Upper
228 100
226 30.0 23.7 35.5
229 21.6 16.7 25.1

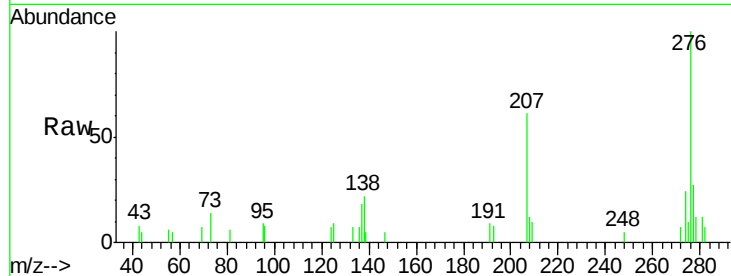




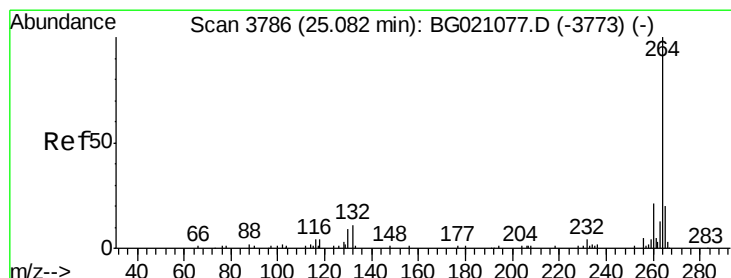
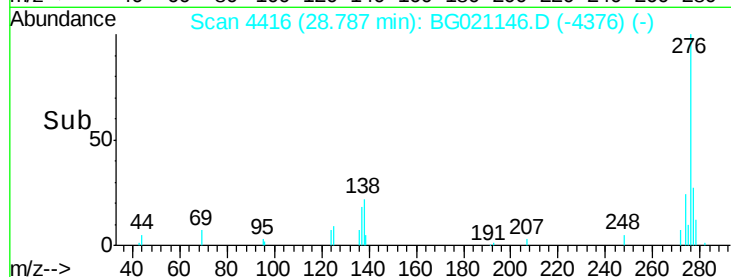
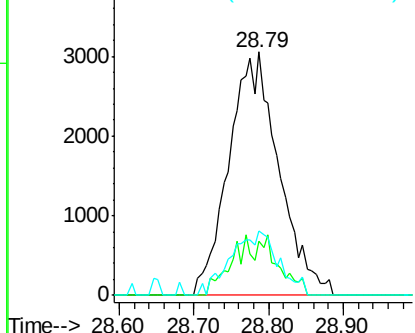
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.29 ng
 RT: 28.79 min Scan# 4416
 Delta R.T. -0.07 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Instrument :
 BNA_G
 ClientSampleId :
 POST-EX-10-20160211

Tgt Ion	Ratio	Lower	Upper
276	100		
138	10.5	0.0	0.0#
277	25.3	0.0	0.0#

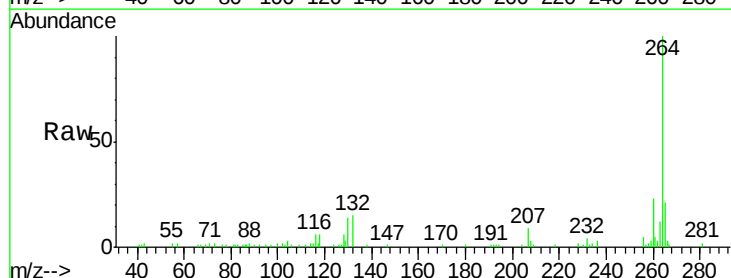


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

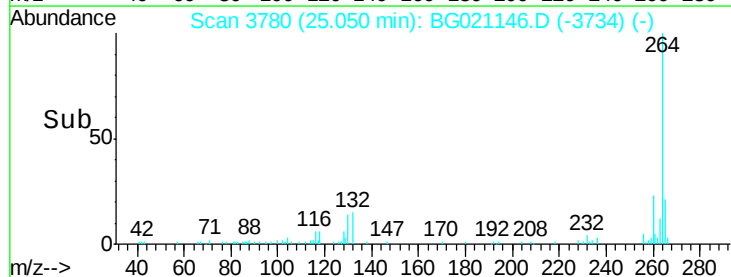
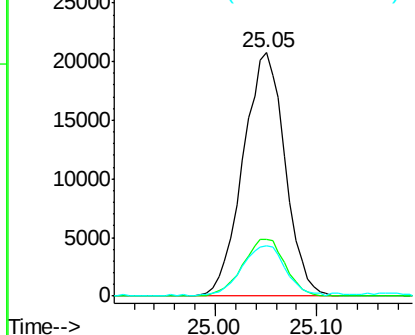


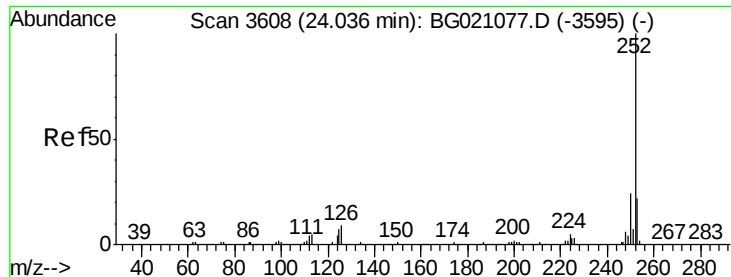
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 25.05 min Scan# 3780
 Delta R.T. -0.03 min
 Lab File: BG021146.D
 Acq: 28 Feb 2016 11:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.5	27.7
265	20.8	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

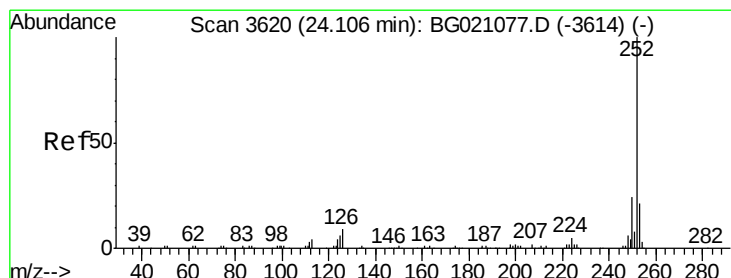
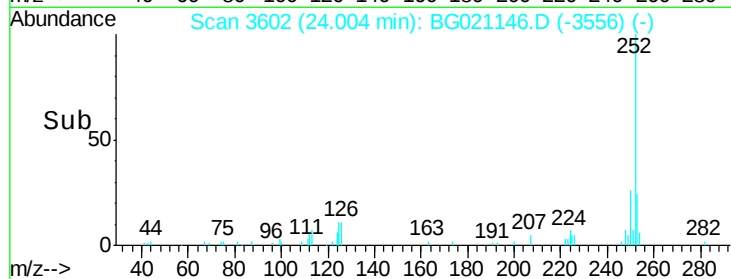
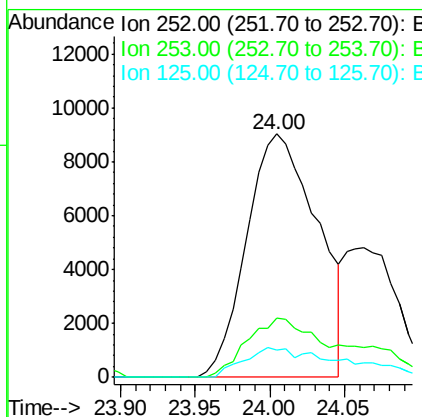
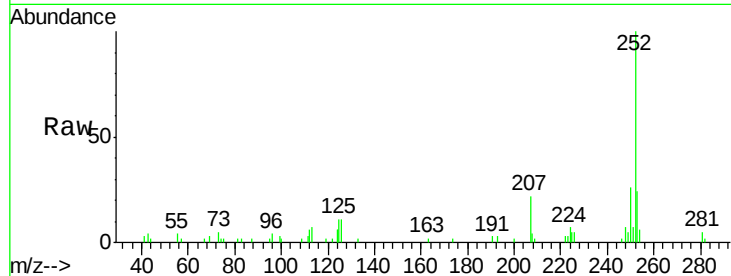




#87
Benzo(b)fluoranthene
Concen: 7.95 ng
RT: 24.00 min Scan# 3602
Delta R.T. -0.03 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

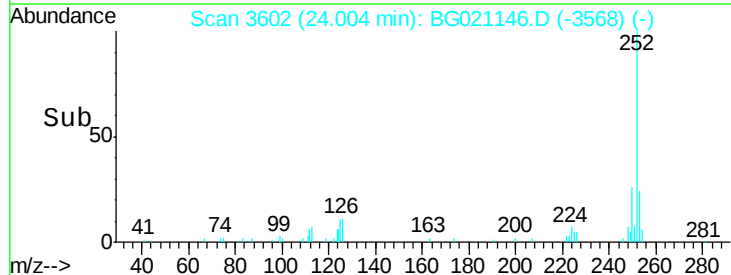
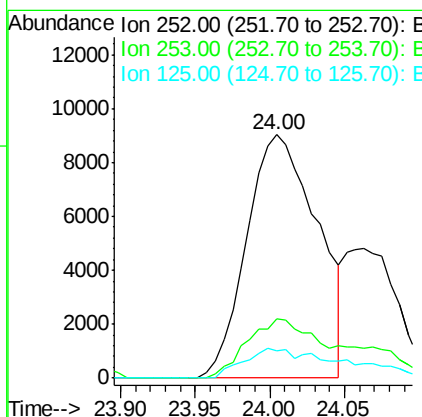
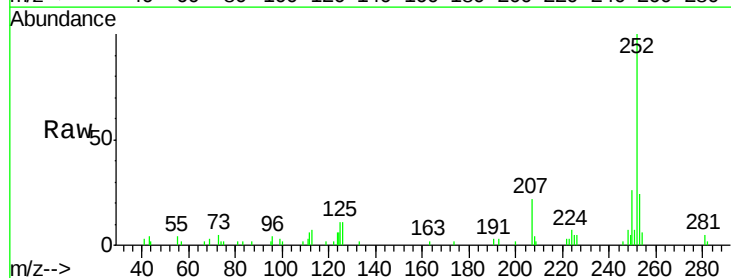
Instrument :
BNA_G
ClientSampleId :
POST-EX-10-20160211

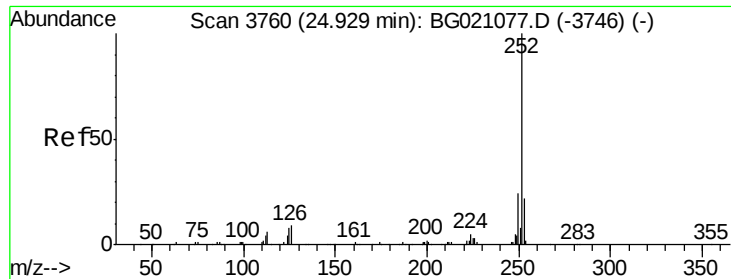
Tgt Ion:252 Resp: 29701
Ion Ratio Lower Upper
252 100
253 24.3 16.8 25.2
125 11.0 8.2 12.2



#88
Benzo(k)fluoranthene
Concen: 8.06 ng
RT: 24.00 min Scan# 3602
Delta R.T. -0.10 min
Lab File: BG021146.D
Acq: 28 Feb 2016 11:21

Tgt Ion:252 Resp: 29701
Ion Ratio Lower Upper
252 100
253 24.3 16.4 24.6
125 11.0 8.2 12.2





#89

Benzo(a)pyrene

Concen: 6.47 ng

RT: 24.89 min Scan# 3752

Delta R.T. -0.04 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

Instrument :

BNA_G

ClientSampleId :

POST-EX-10-20160211

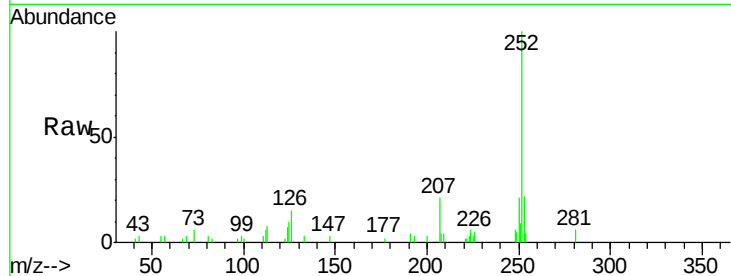
Tgt Ion: 252 Resp: 23224

Ion Ratio Lower Upper

252 100

253 22.1 15.8 23.8

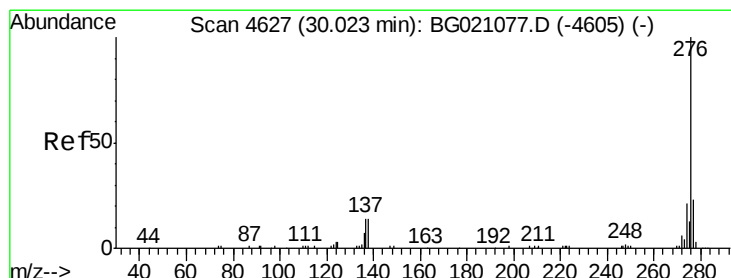
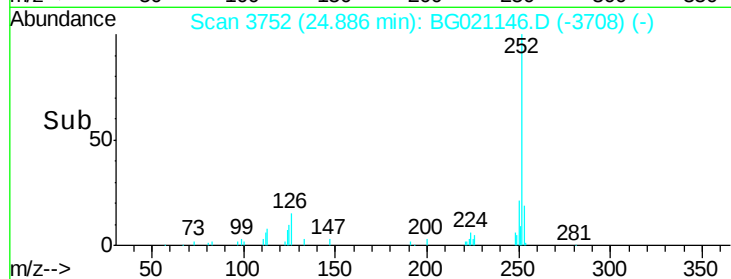
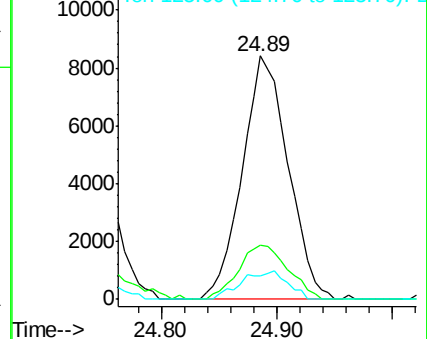
125 9.6 8.4 12.6



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: 3.76 ng

RT: 29.95 min Scan# 4614

Delta R.T. -0.07 min

Lab File: BG021146.D

Acq: 28 Feb 2016 11:21

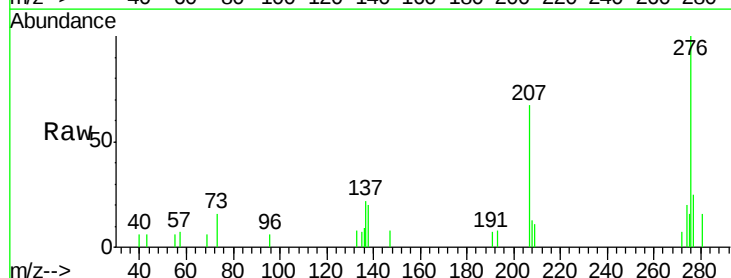
Tgt Ion: 276 Resp: 13092

Ion Ratio Lower Upper

276 100

277 25.3 16.6 25.0#

138 20.4 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

