

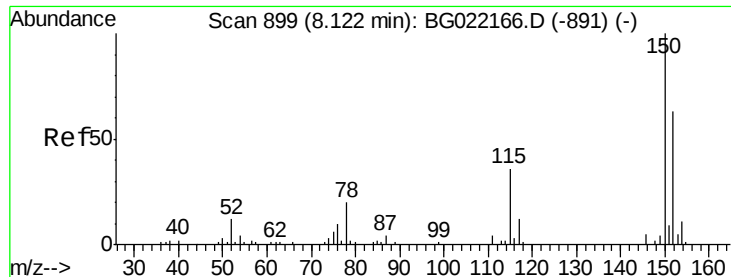
Data Path : Z:\HPCHEM1\BNA G\DATA\BG061616\
 Data File : BG022393.D
 Acq On : 17 Jun 2016 9:01
 Operator : UM/SJ
 Sample : H3567-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-08-COMP

Quant Time: Jun 17 13:46:01 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 17:40:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	37765	20.00	ng	-0.04
21) Naphthalene-d8	10.88	136	185715	20.00	ng	-0.03
38) Acenaphthene-d10	14.69	164	107010	20.00	ng	-0.04
63) Phenanthrene-d10	17.44	188	209269	20.00	ng	-0.03
75) Chrysene-d12	21.71	240	176931	20.00	ng	-0.03
86) Perylene-d12	25.02	264	165250	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	182965	93.67	ng	-0.02
7) Phenol-d6	7.24	99	269697	87.82	ng	0.00
23) Nitrobenzene-d5	9.23	82	151944	57.04	ng	-0.03
41) 2,4,6-Tribromophenol	16.19	330	79193	65.49	ng	-0.03
44) 2-Fluorobiphenyl	13.31	172	362178	51.58	ng	-0.03
78) Terphenyl-d14	20.04	244	338687	45.45	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	14.14	163	29502	3.33	ng	99
54) Dibenzofuran	15.09	168	32326	3.19	ng	97
57) Fluorene	15.74	166	27557	3.16	ng	# 95
70) Phenanthrene	17.48	178	659350	58.01	ng	97
71) Anthracene	17.57	178	57033	5.06	ng	96
72) Carbazole	17.86	167	21419	2.01	ng	100
74) Fluoranthene	19.49	202	576641	44.13	ng	96
77) Pyrene	19.85	202	486681	44.25	ng	99
80) Benzo(a)anthracene	21.69	228	172039	17.34	ng	99
82) Chrysene	21.76	228	164385	17.03	ng	98
85) Indeno(1,2,3-cd)pyrene	28.84	276	67142m	6.20	ng	
87) Benzo(b)fluoranthene	23.96	252	163102m	16.92	ng	
88) Benzo(k)fluoranthene	24.00	252	60986m	6.43	ng	
89) Benzo(a)pyrene	24.85	252	105486	11.45	ng	# 92
91) Benzo(a,h,i)perylene	30.05	276	63510m	7.03	ng	

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

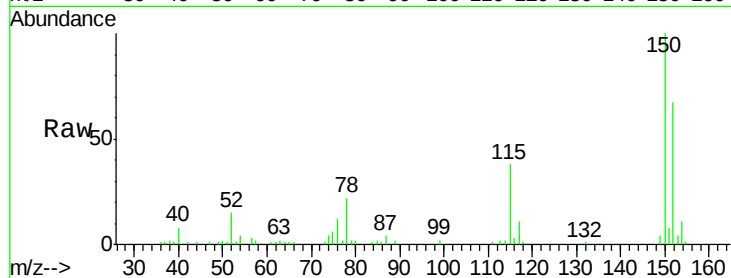


#1

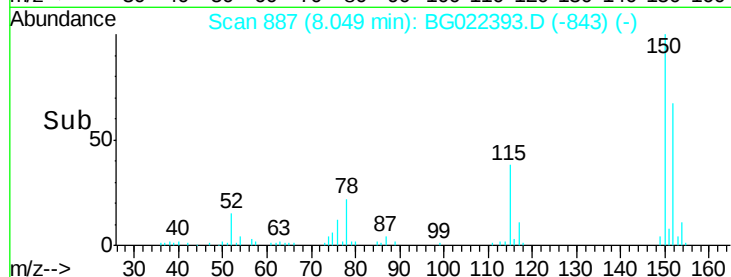
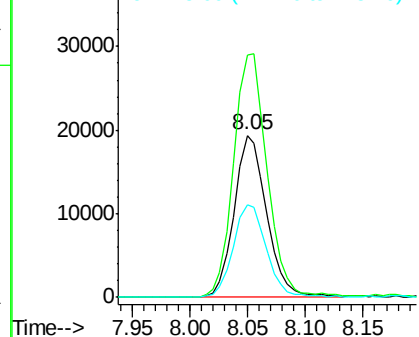
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.05 min Scan# 887
Delta R.T. -0.04 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

Instrument :
BNA_G
ClientSampleId :
SB-08-COMP

Tot Ion:152 Resp: 37765
Ion Ratio Lower Upper
152 100
150 149.7 130.1 195.1
115 56.9 62.2 93.2#



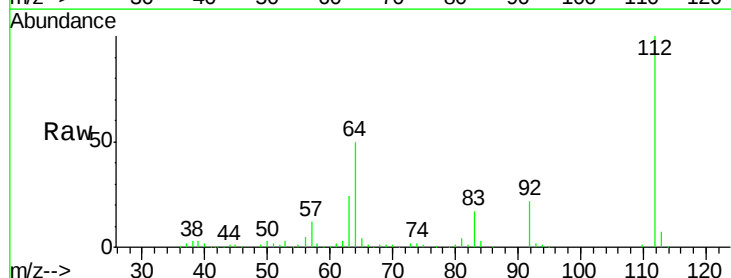
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



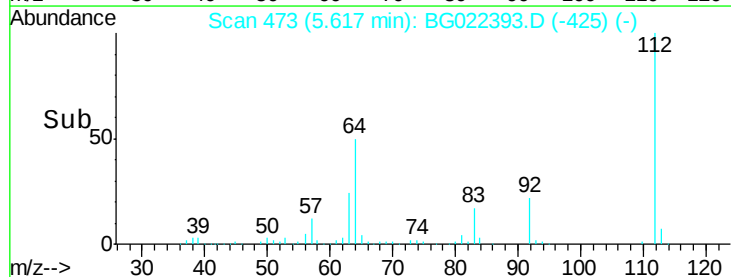
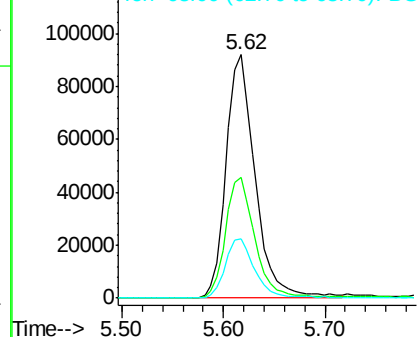
#5

2-Fluorophenol
Concen: 93.67 ng
RT: 5.62 min Scan# 473
Delta R.T. -0.02 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

Tgt Ion:112 Resp: 182965
Ion Ratio Lower Upper
112 100
64 49.6 51.1 76.7#
63 24.4 24.6 37.0#



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: 87.82 ng

RT: 7.24 min Scan# 750

Delta R.T. -0.01 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

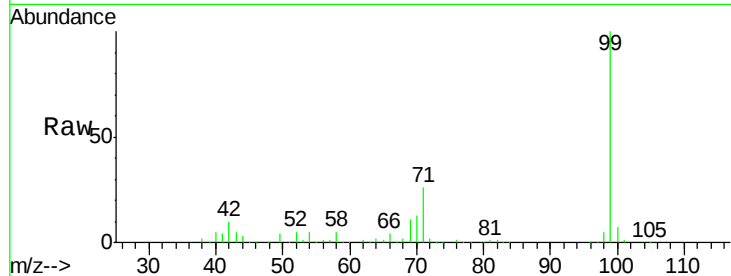
Tot Ion: 99 Resp: 269697

Ion Ratio Lower Upper

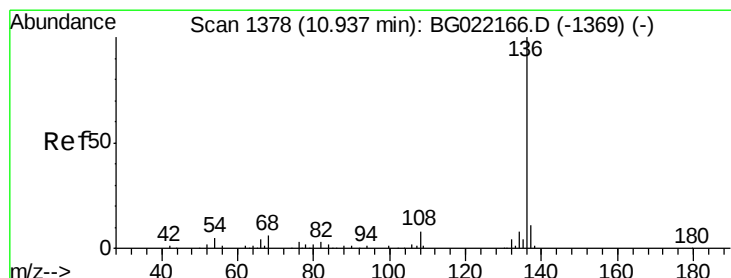
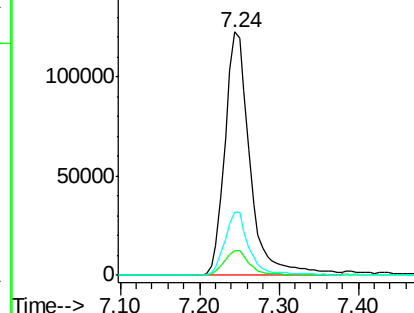
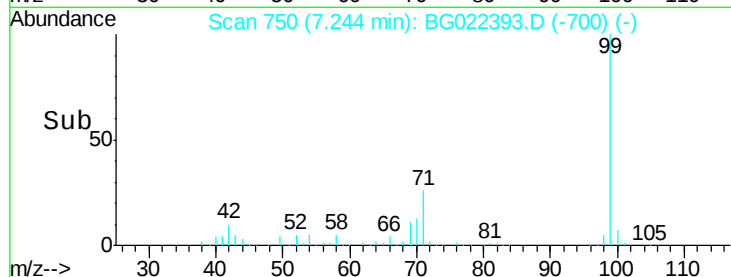
99 100

42 10.3 16.4 24.6#

71 25.9 25.0 37.4



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: 10.88 min Scan# 1368

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Tgt Ion: 136 Resp: 185715

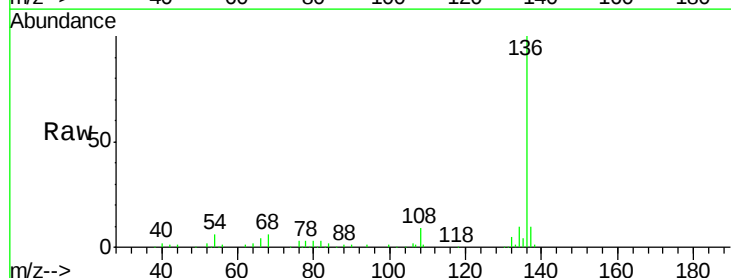
Ion Ratio Lower Upper

136 100

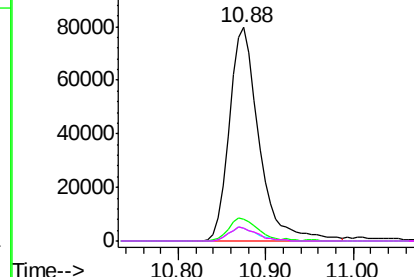
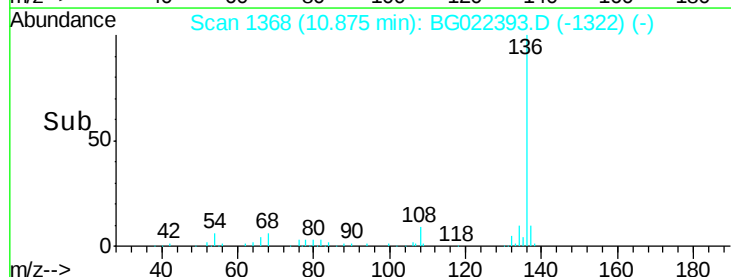
137 10.3 9.0 13.4

54 6.0 9.6 14.4#

68 5.8 6.4 9.6#



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

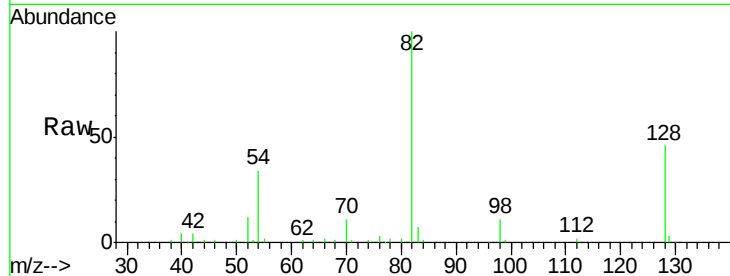




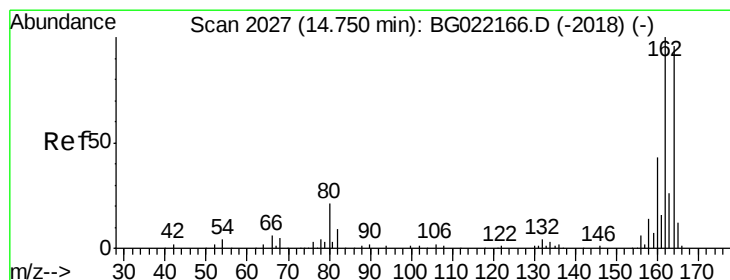
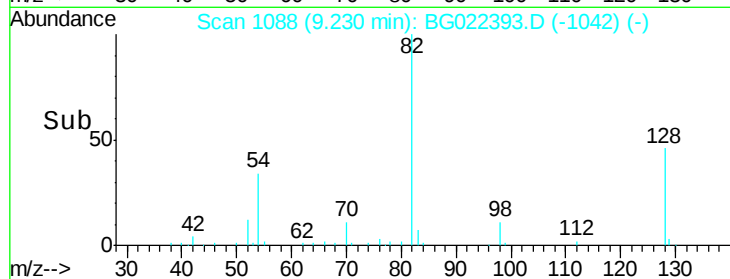
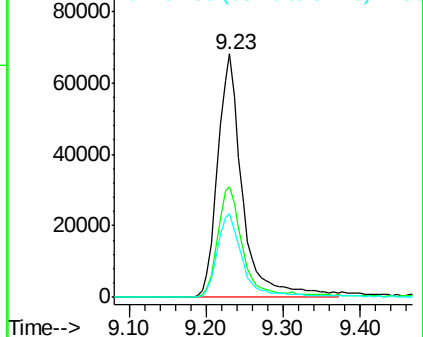
#23
 Nitrobenzene-d5
 Concen: 57.04 ng
 RT: 9.23 min Scan# 1088
 Delta R.T. -0.03 min
 Lab File: BG022393.D
 Acq: 17 Jun 2016 9:01

Instrument :
 BNA_G
 ClientSampleId :
 SB-08-COMP

Tot Ion	82	Resp	151944
Ion Ratio	Lower	Upper	
82	100		
128	45.5	33.4	50.0
54	34.3	46.1	69.1#

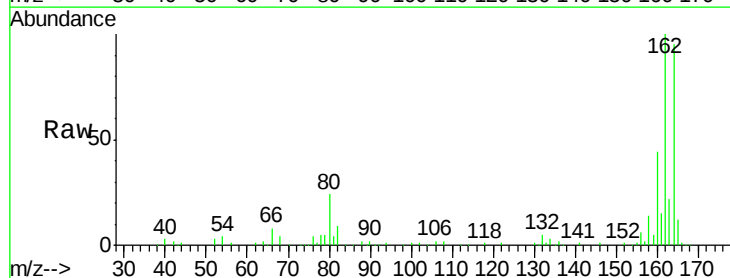


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

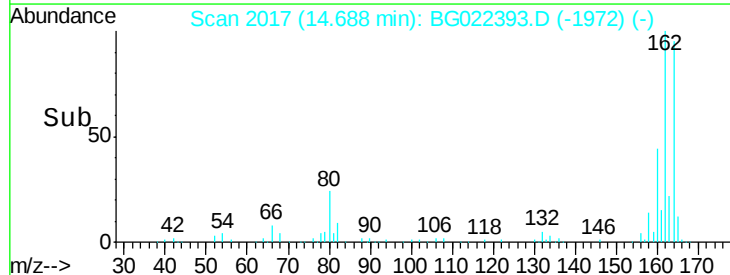
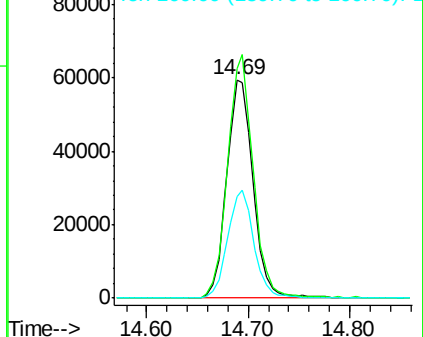


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.69 min Scan# 2017
 Delta R.T. -0.04 min
 Lab File: BG022393.D
 Acq: 17 Jun 2016 9:01

Tgt Ion	164	Resp	107010
Ion Ratio	Lower	Upper	
164	100		
162	105.1	78.0	117.0
160	46.3	32.9	49.3



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

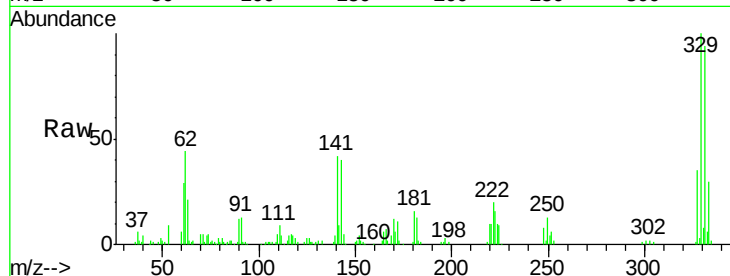




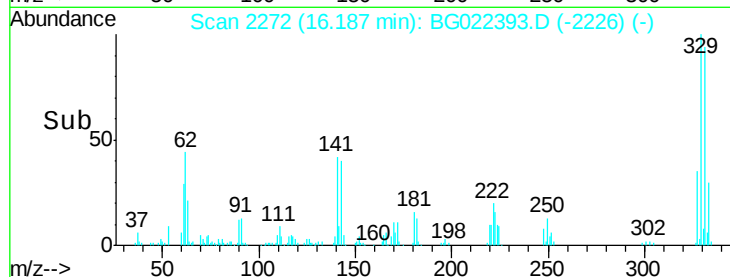
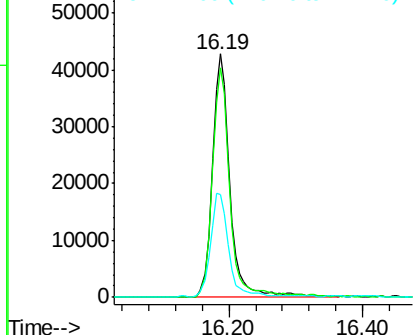
#41
 2,4,6-Tribromophenol
 Concen: 65.49 ng
 RT: 16.19 min Scan# 2272
 Delta R.T. -0.03 min
 Lab File: BG022393.D
 Acq: 17 Jun 2016 9:01

Instrument :
 BNA_G
 ClientSampled :
 SB-08-COMP

Tot Ion:330 Resp: 79193
 Ion Ratio Lower Upper
 330 100
 332 93.2 78.0 117.0
 141 43.7 33.8 50.8

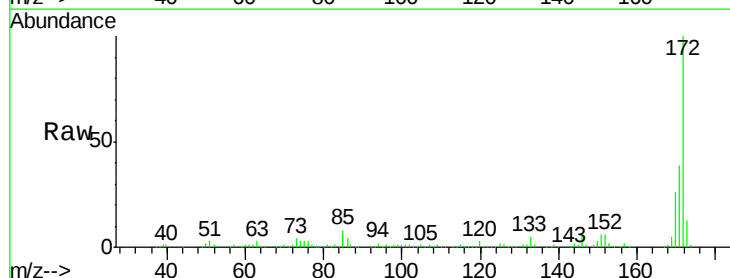


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

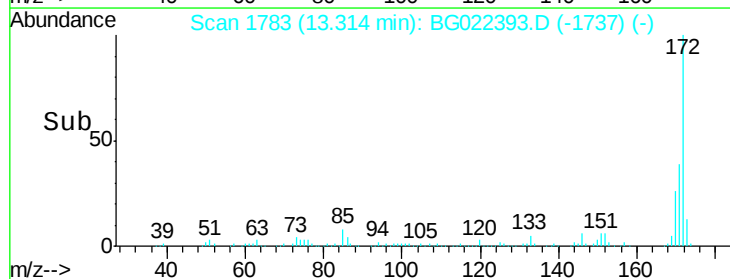
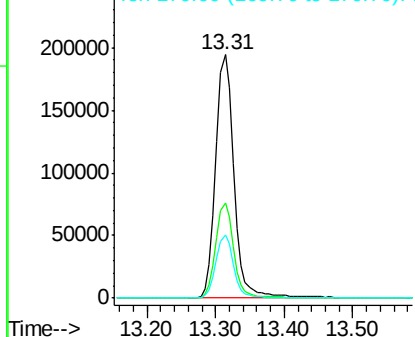


#44
 2-Fluorobiphenyl
 Concen: 51.58 ng
 RT: 13.31 min Scan# 1783
 Delta R.T. -0.03 min
 Lab File: BG022393.D
 Acq: 17 Jun 2016 9:01

Tgt Ion:172 Resp: 362178
 Ion Ratio Lower Upper
 172 100
 171 39.1 27.8 41.6
 170 26.0 19.6 29.4



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

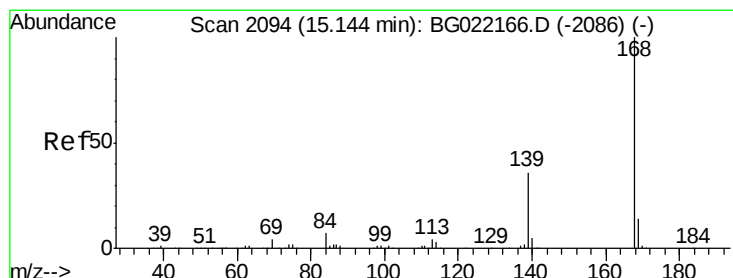
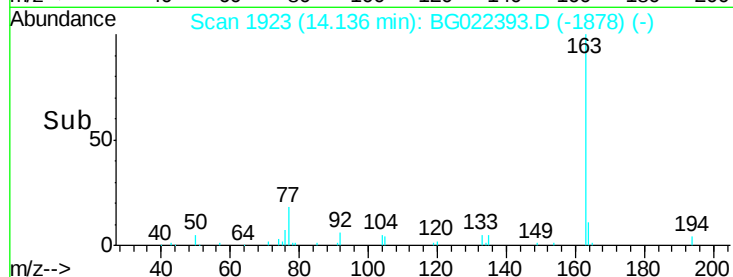
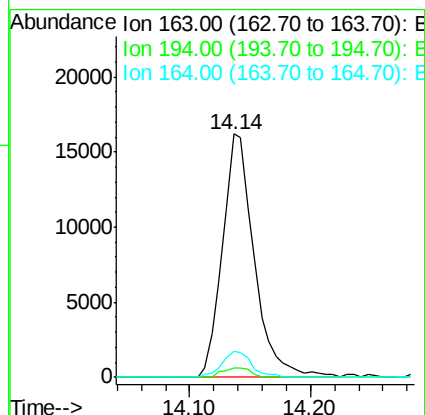
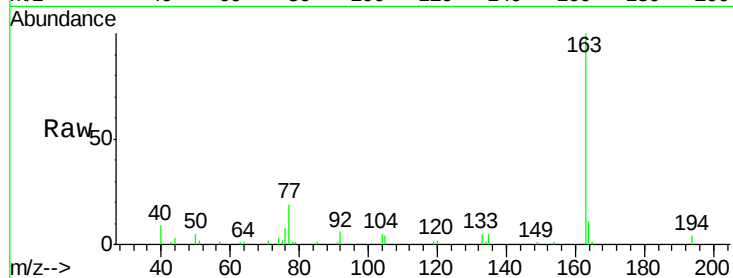




#49
Dimethylphthalate
Concen: 3.33 ng
RT: 14.14 min Scan# 1923
Delta R.T. -0.04 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

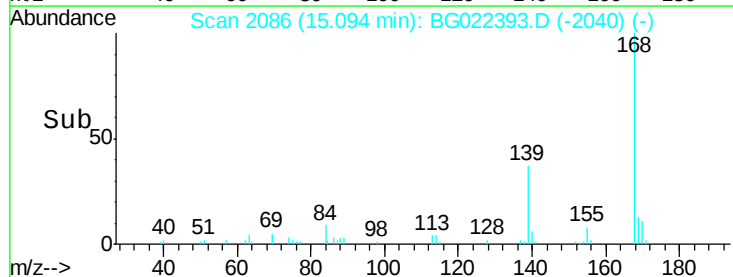
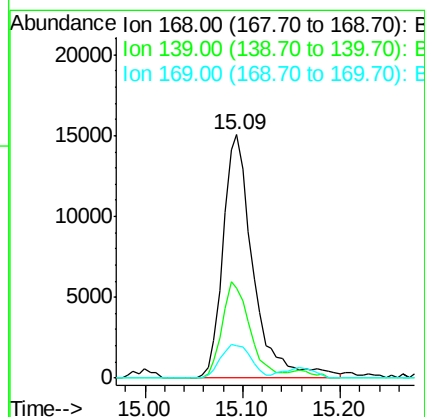
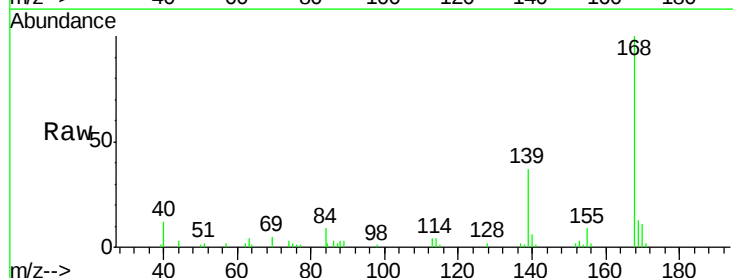
Instrument :
BNA_G
ClientSampleId :
SB-08-COMP

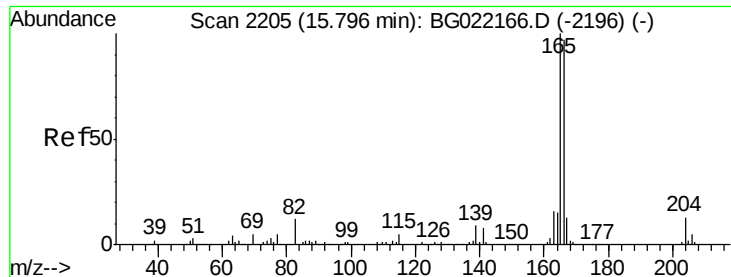
Tot Ion:163 Resp: 29502
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.6
164 10.6 8.1 12.1



#54
Dibenzofuran
Concen: 3.19 ng
RT: 15.09 min Scan# 2086
Delta R.T. -0.03 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

Tgt Ion:168 Resp: 32326
Ion Ratio Lower Upper
168 100
139 37.1 31.1 46.7
169 13.1 11.0 16.6





#57

Fluorene

Concen: 3.16 ng

RT: 15.74 min Scan# 2196

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

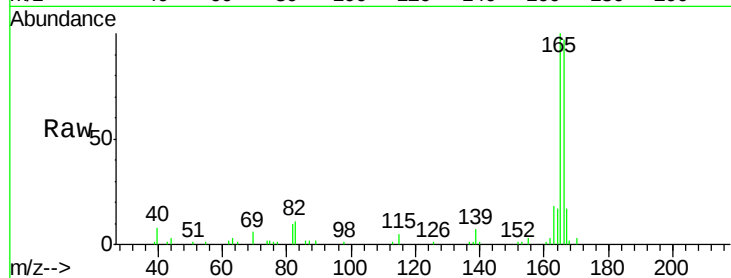
Tot Ion:166 Resp: 27557

Ion Ratio Lower Upper

166 100

165 102.8 79.0 118.4

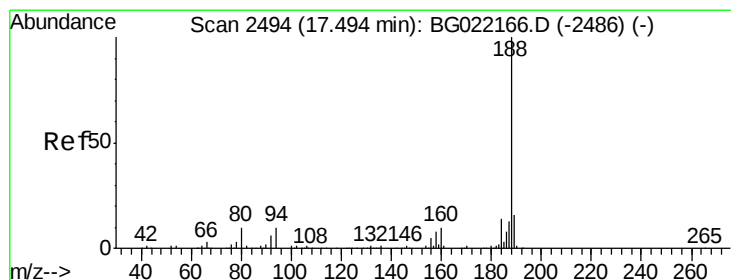
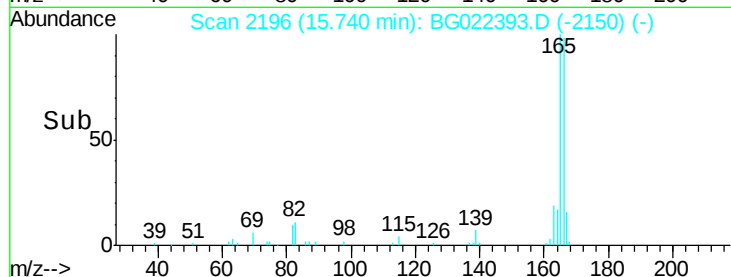
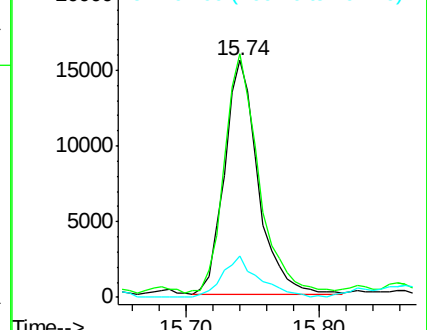
167 17.2 10.7 16.1#



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: 17.44 min Scan# 2485

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

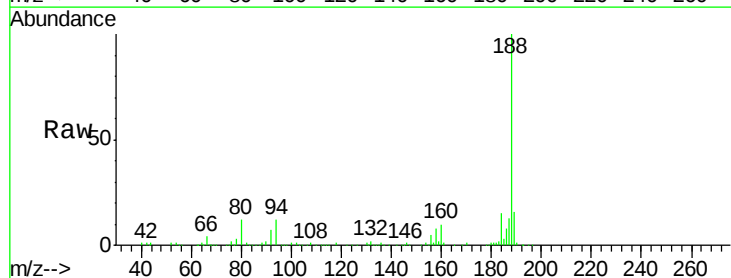
Tgt Ion:188 Resp: 209269

Ion Ratio Lower Upper

188 100

94 11.7 7.5 11.3#

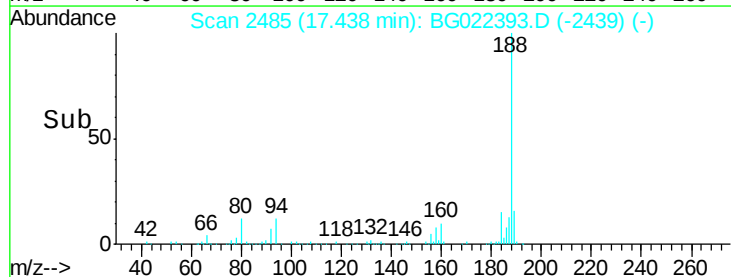
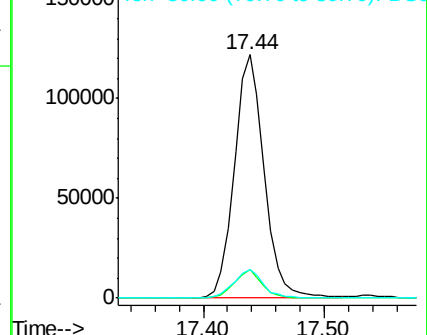
80 11.7 8.6 13.0

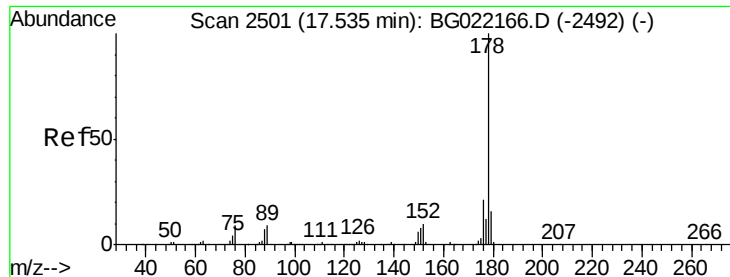


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 58.01 ng

RT: 17.48 min Scan# 2492

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

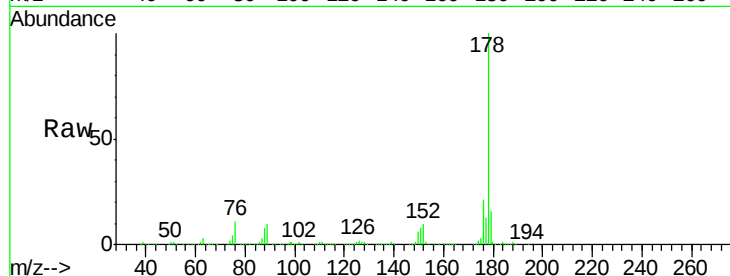
Tot Ion:178 Resp: 659350

Ion Ratio Lower Upper

178 100

176 21.3 16.2 24.4

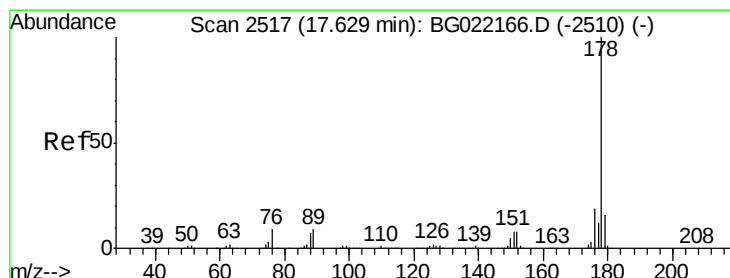
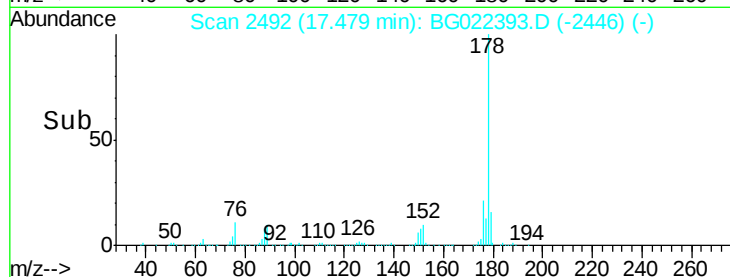
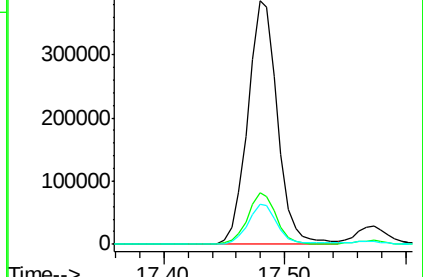
179 16.3 12.0 18.0



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



#71

Anthracene

Concen: 5.06 ng

RT: 17.57 min Scan# 2508

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

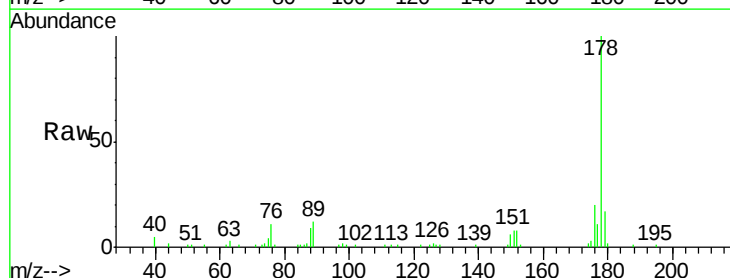
Tgt Ion:178 Resp: 57033

Ion Ratio Lower Upper

178 100

176 20.4 15.0 22.4

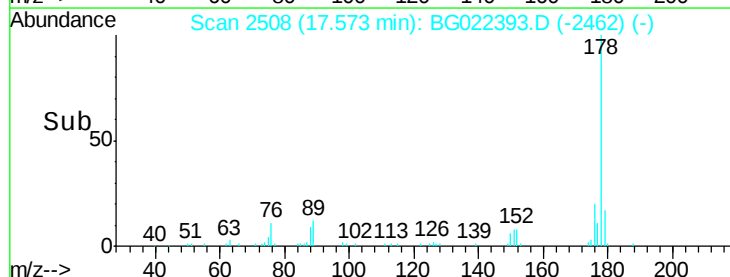
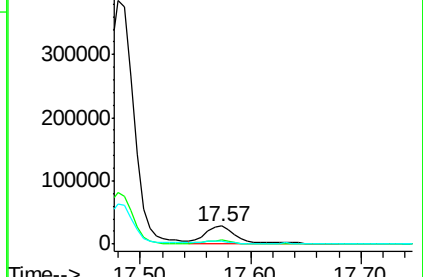
179 16.7 12.2 18.4

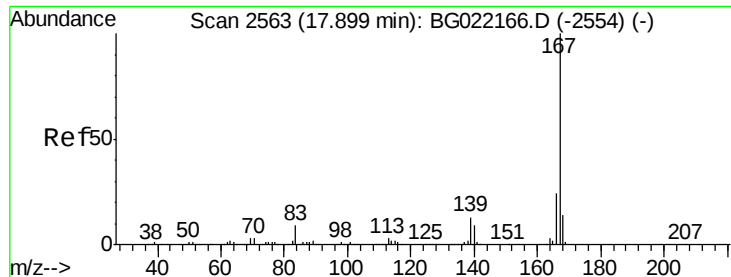


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.01 ng

RT: 17.86 min Scan# 2556

Delta R.T. -0.02 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

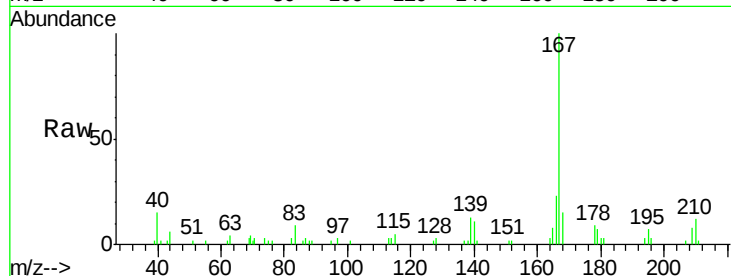
Tot Ion:167 Resp: 21419

Ion Ratio Lower Upper

167 100

166 23.2 18.6 27.8

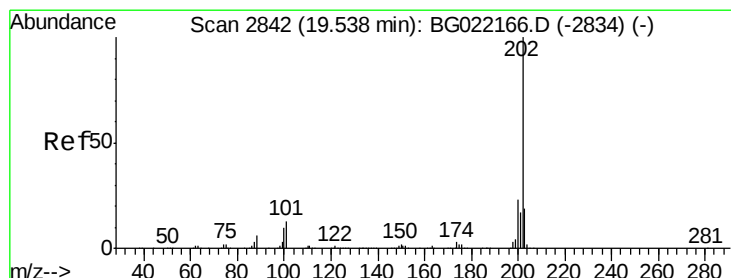
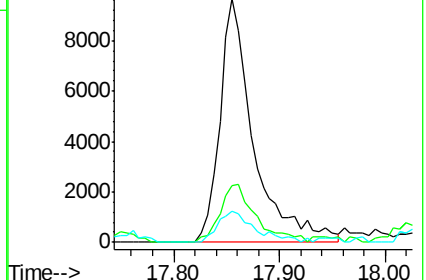
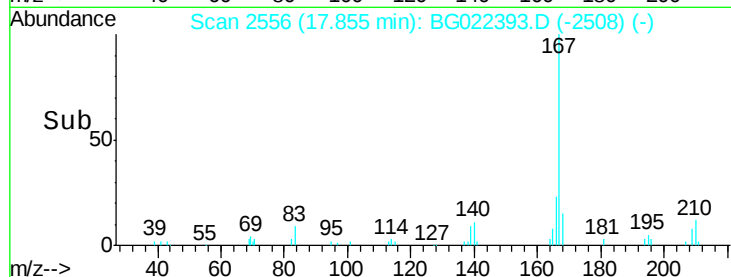
139 12.8 10.6 15.8



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: 44.13 ng

RT: 19.49 min Scan# 2834

Delta R.T. -0.02 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

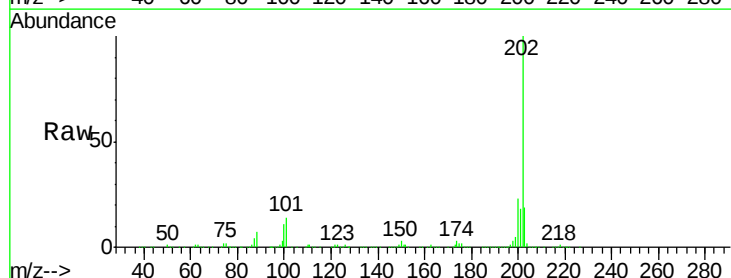
Tgt Ion:202 Resp: 576641

Ion Ratio Lower Upper

202 100

101 14.1 0.0 31.0

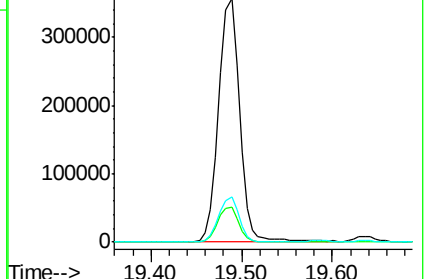
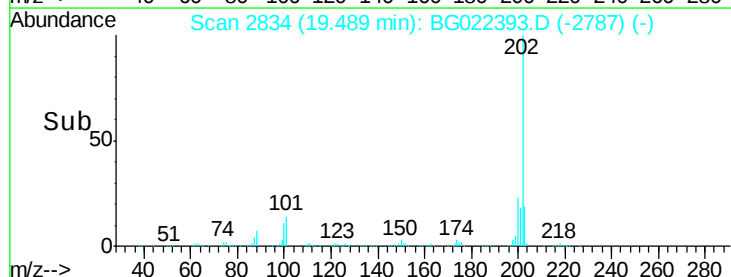
203 18.7 0.0 37.9

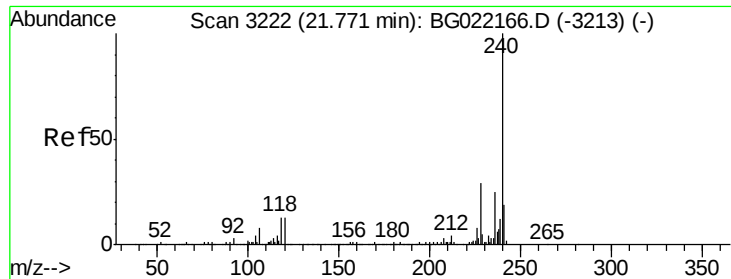


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

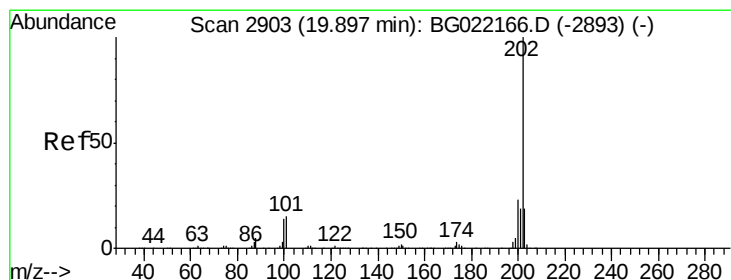
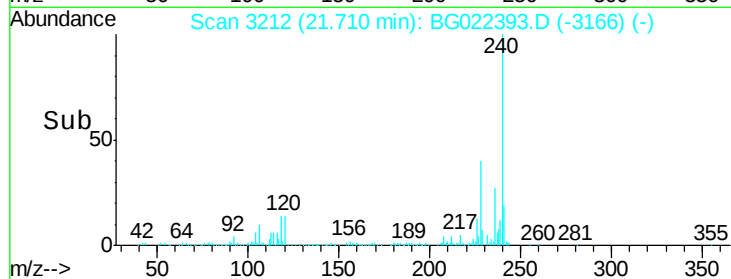
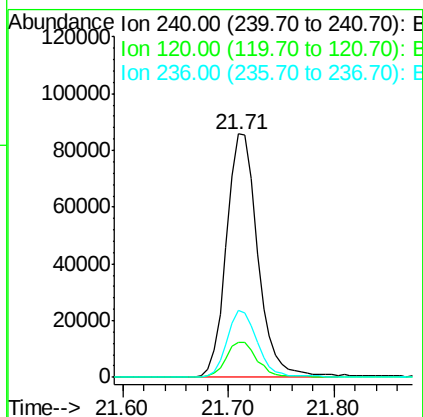
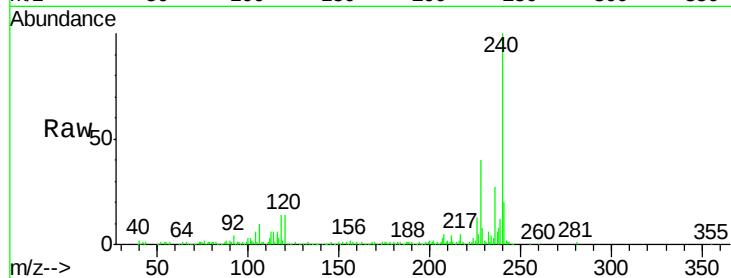




#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.71 min Scan# 3212
Delta R.T. -0.03 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

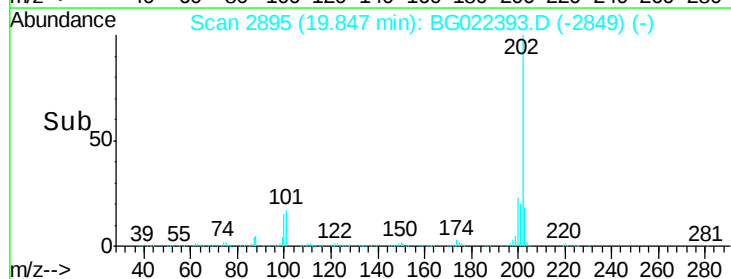
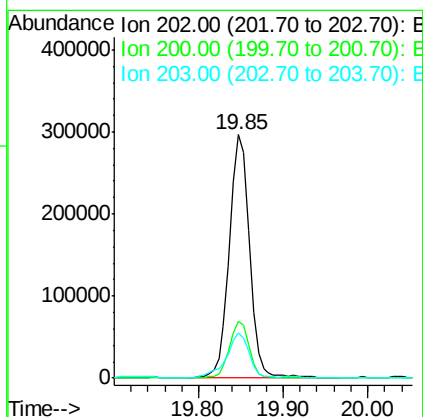
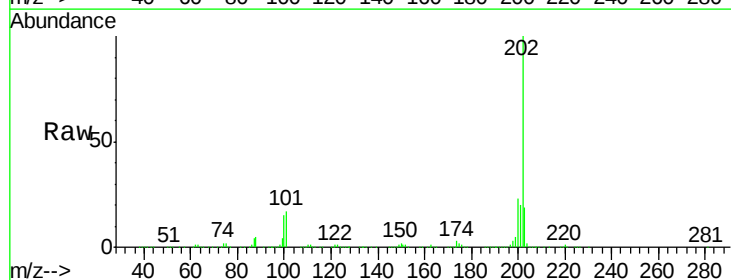
Instrument :
BNA_G
ClientSampleId :
SB-08-COMP

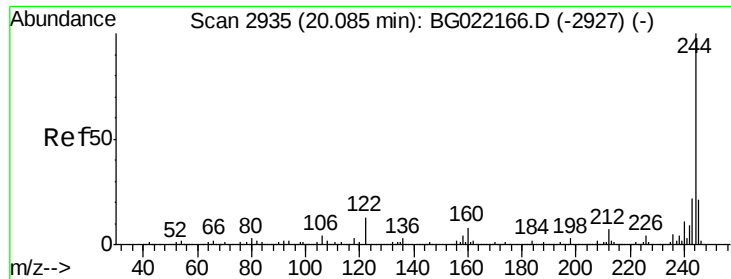
Tot Ion:240 Resp: 176931
Ion Ratio Lower Upper
240 100
120 14.4 8.4 12.6#
236 27.5 19.6 29.4



#77
Pyrene
Concen: 44.25 ng
RT: 19.85 min Scan# 2895
Delta R.T. -0.03 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

Tgt Ion:202 Resp: 486681
Ion Ratio Lower Upper
202 100
200 23.3 18.2 27.2
203 18.7 15.0 22.4





#78

Terphenyl-d14

Concen: 45.45 ng

RT: 20.04 min Scan# 2927

Delta R.T. -0.02 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

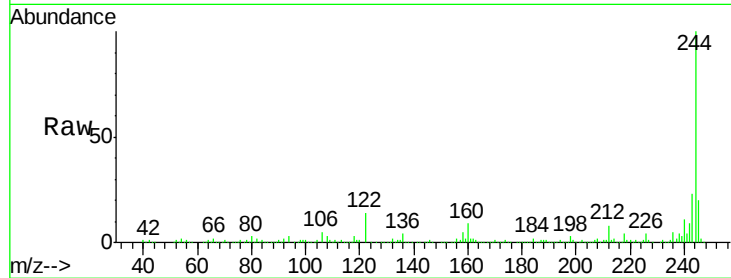
Tot Ion:244 Resp: 338687

Ion Ratio Lower Upper

244 100

212 7.7 6.5 9.7

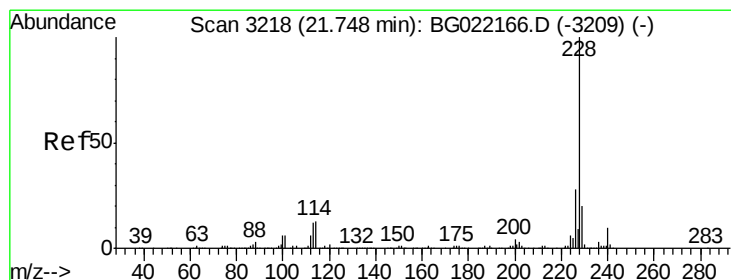
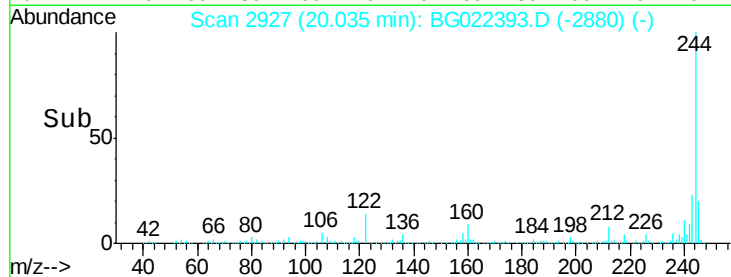
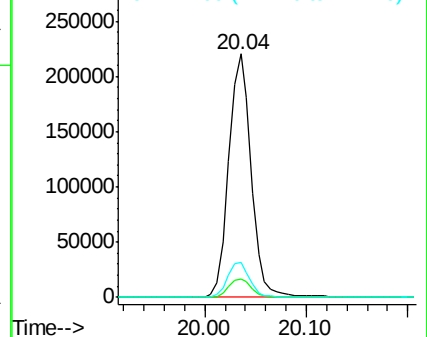
122 14.2 8.6 12.8#



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: 17.34 ng

RT: 21.69 min Scan# 3209

Delta R.T. -0.03 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

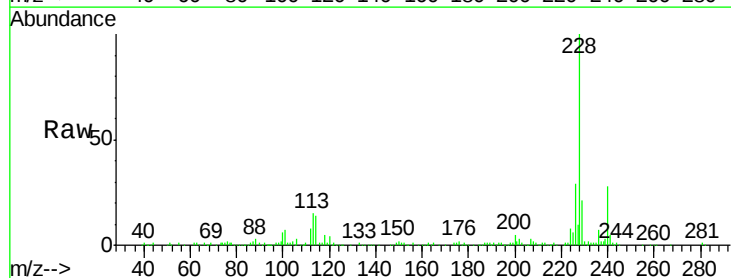
Tgt Ion:228 Resp: 172039

Ion Ratio Lower Upper

228 100

226 28.7 22.6 34.0

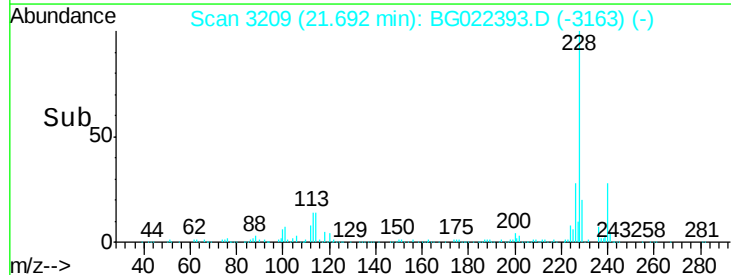
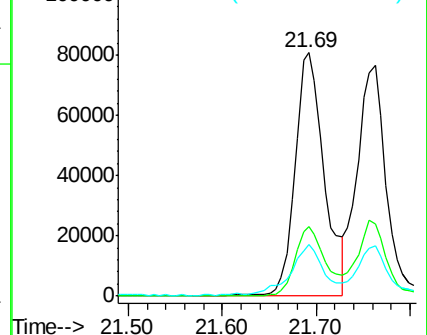
229 21.0 16.1 24.1

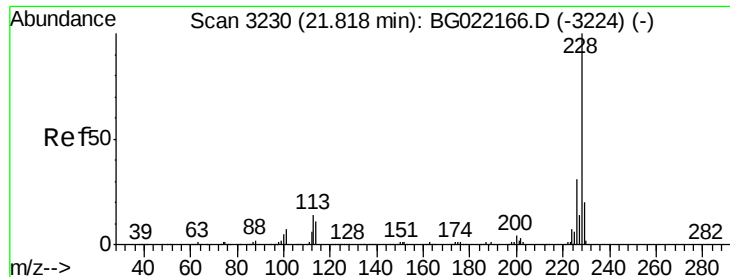


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.03 ng

RT: 21.76 min Scan# 3221

Delta R.T. -0.02 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

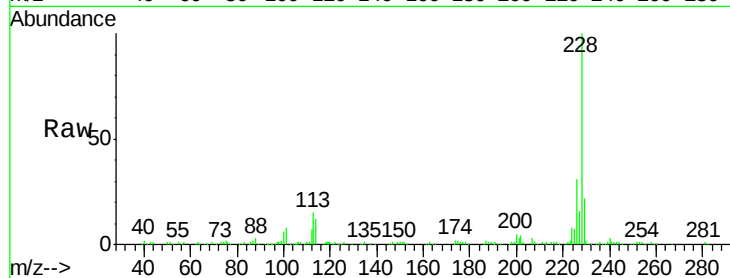
Tot Ion:228 Resp: 164385

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.0

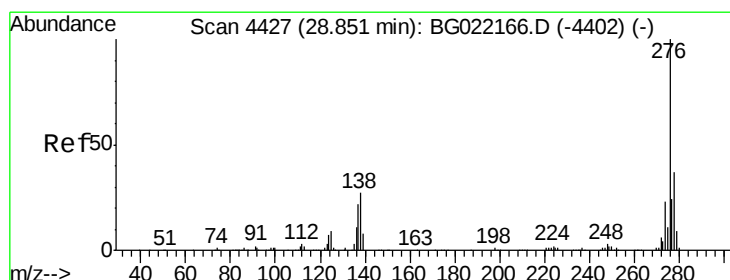
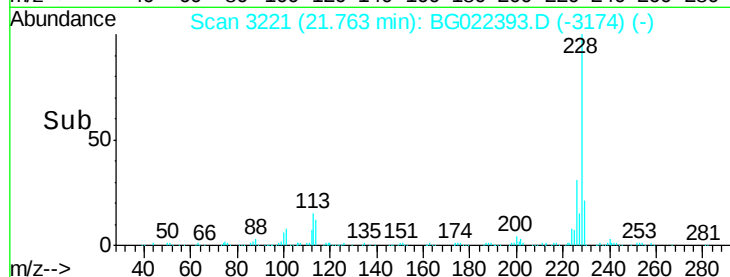
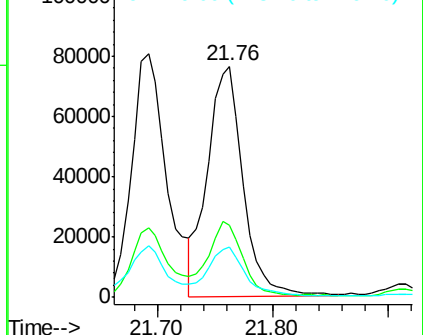
229 21.8 15.9 23.9



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: 6.20 ng m

RT: 28.84 min Scan# 4426

Delta R.T. 0.08 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

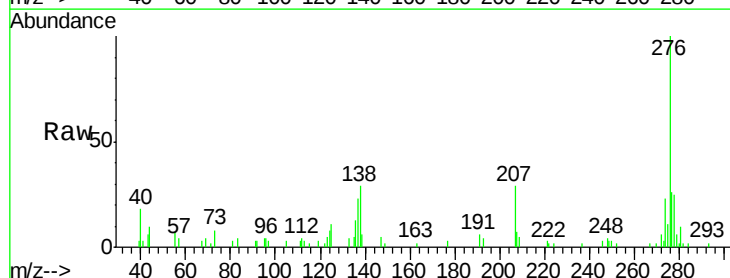
Tgt Ion:276 Resp: 67142

Ion Ratio Lower Upper

276 100

138 5.8 14.0 21.0#

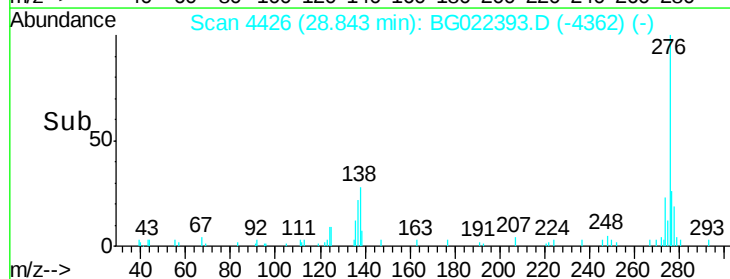
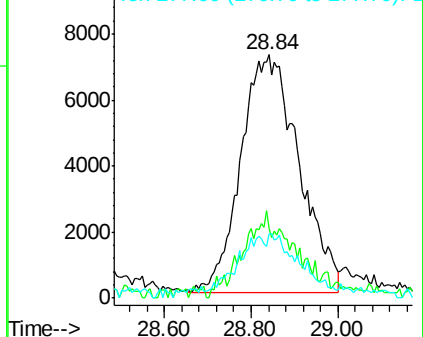
277 2.2 20.6 30.8#

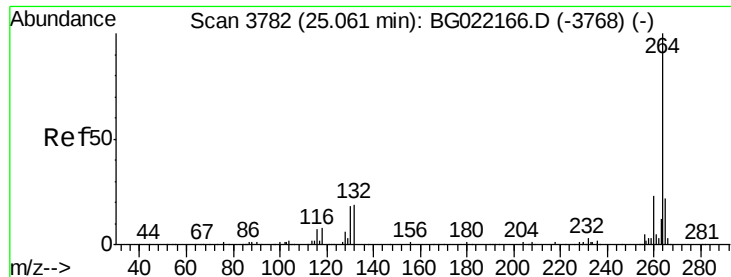


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

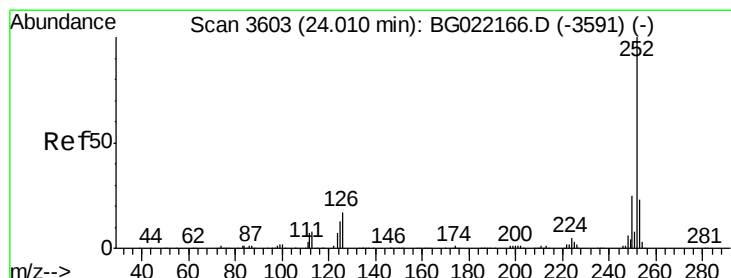
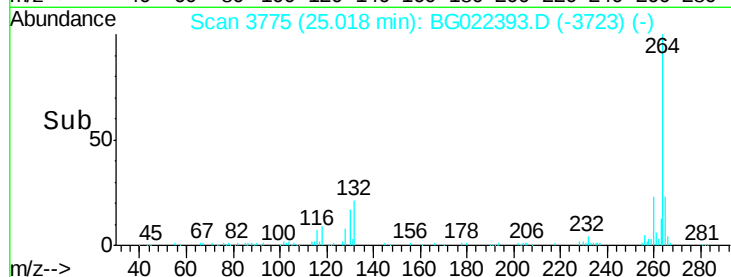
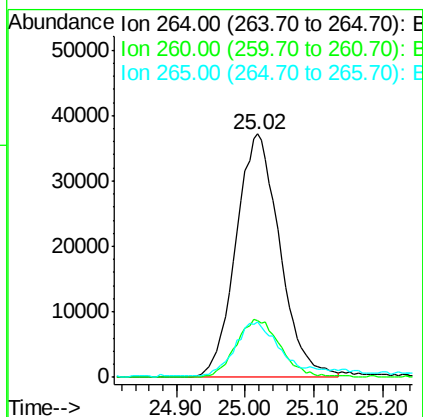
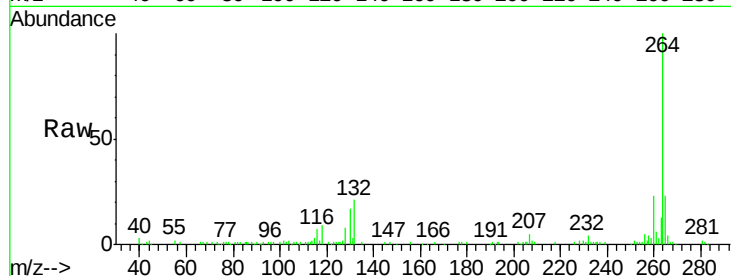




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.02 min Scan# 3775
Delta R.T. 0.01 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

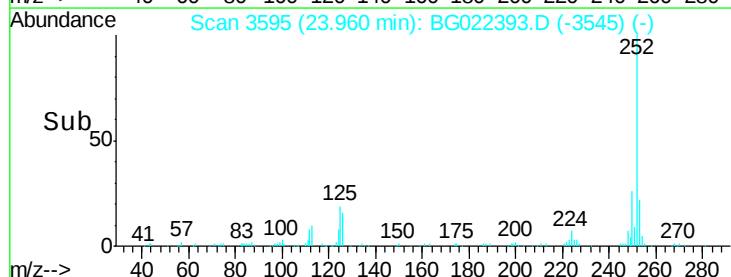
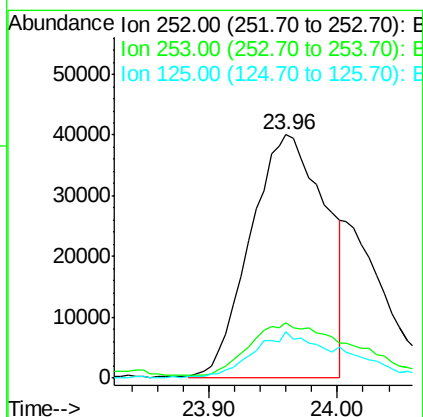
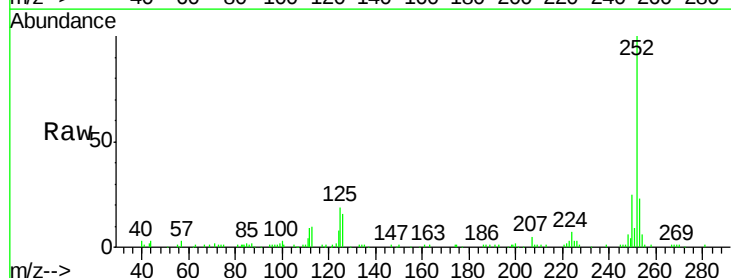
Instrument :
BNA_G
ClientSampleId :
SB-08-COMP

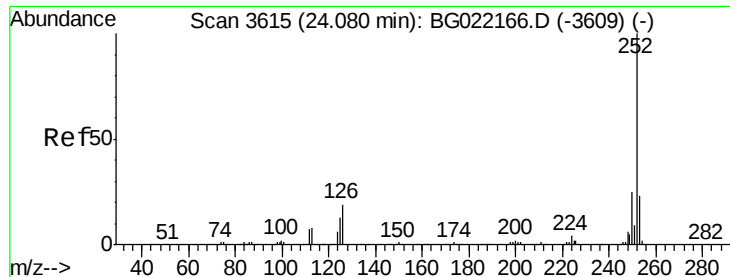
Tot Ion:264 Resp: 165250
Ion Ratio Lower Upper
264 100
260 23.1 20.2 30.4
265 22.8 17.8 26.8



#87
Benzo(b)fluoranthene
Concen: 16.92 ng m
RT: 23.96 min Scan# 3595
Delta R.T. -0.01 min
Lab File: BG022393.D
Acq: 17 Jun 2016 9:01

Tgt Ion:252 Resp: 163102
Ion Ratio Lower Upper
252 100
253 22.6 17.5 26.3
125 19.0 8.6 13.0#





#88

Benzo(k)fluoranthene

Concen: 6.43 ng/mL

RT: 24.00 min Scan# 3602

Delta R.T. -0.04 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

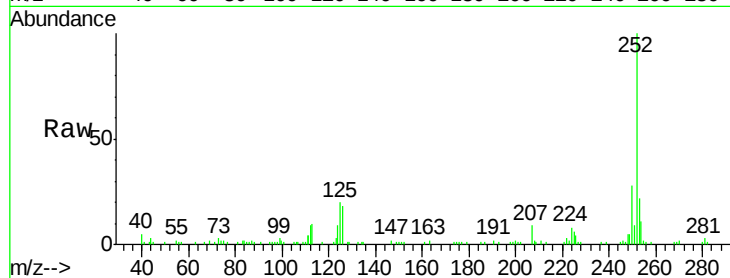
Tot Ion:252 Resp: 60986

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

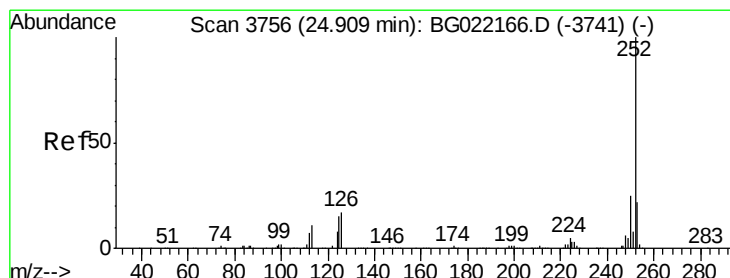
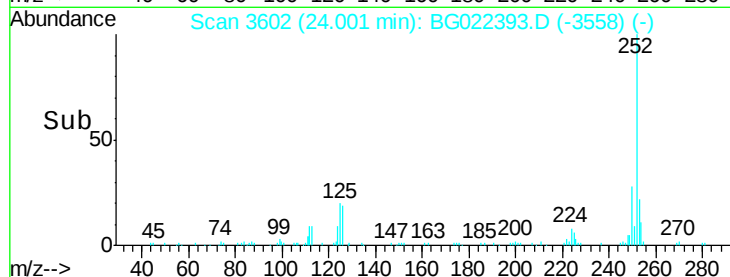
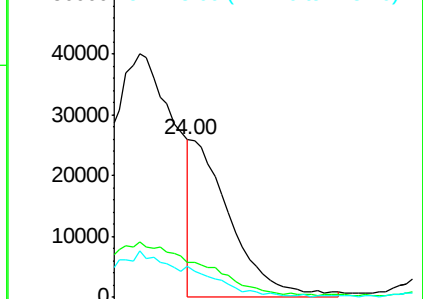
125 19.7 8.3 12.5#



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: 11.45 ng/mL

RT: 24.85 min Scan# 3747

Delta R.T. -0.01 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

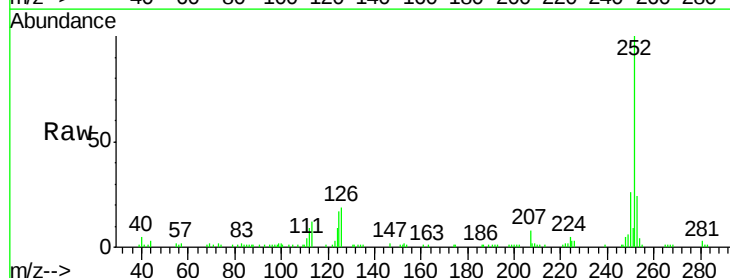
Tgt Ion:252 Resp: 105486

Ion Ratio Lower Upper

252 100

253 24.1 17.1 25.7

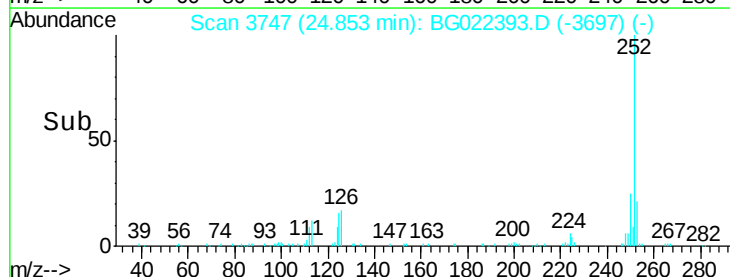
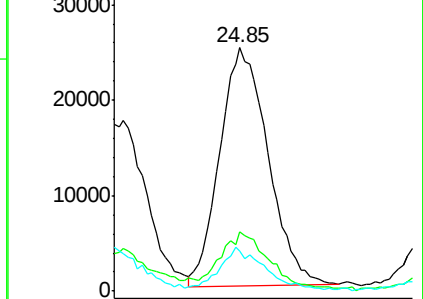
125 16.7 9.6 14.4#

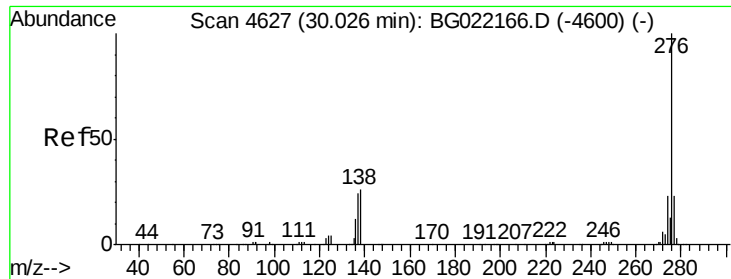


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 7.03 ng/mL

RT: 30.05 min Scan# 4632

Delta R.T. 0.11 min

Lab File: BG022393.D

Acq: 17 Jun 2016 9:01

Instrument :

BNA_G

ClientSampleId :

SB-08-COMP

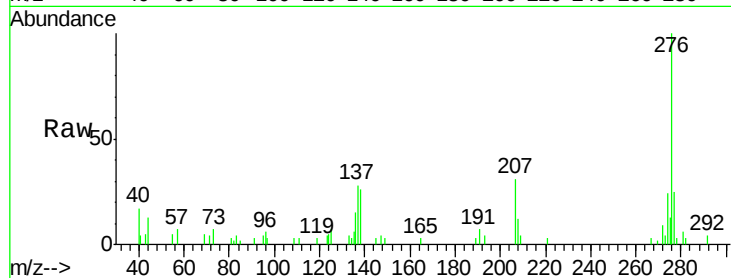
Tot Ion: 276 Resp: 63510

Ion Ratio Lower Upper

276 100

277 25.2 19.4 29.2

138 25.6 17.4 26.0



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

