

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061716\
 Data File : BG022443.D
 Acq On : 19 Jun 2016 3:58
 Operator : UM/SJ
 Sample : H3489-05
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 S6-B2(0-10)C

Quant Time: Jun 20 01:28:27 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

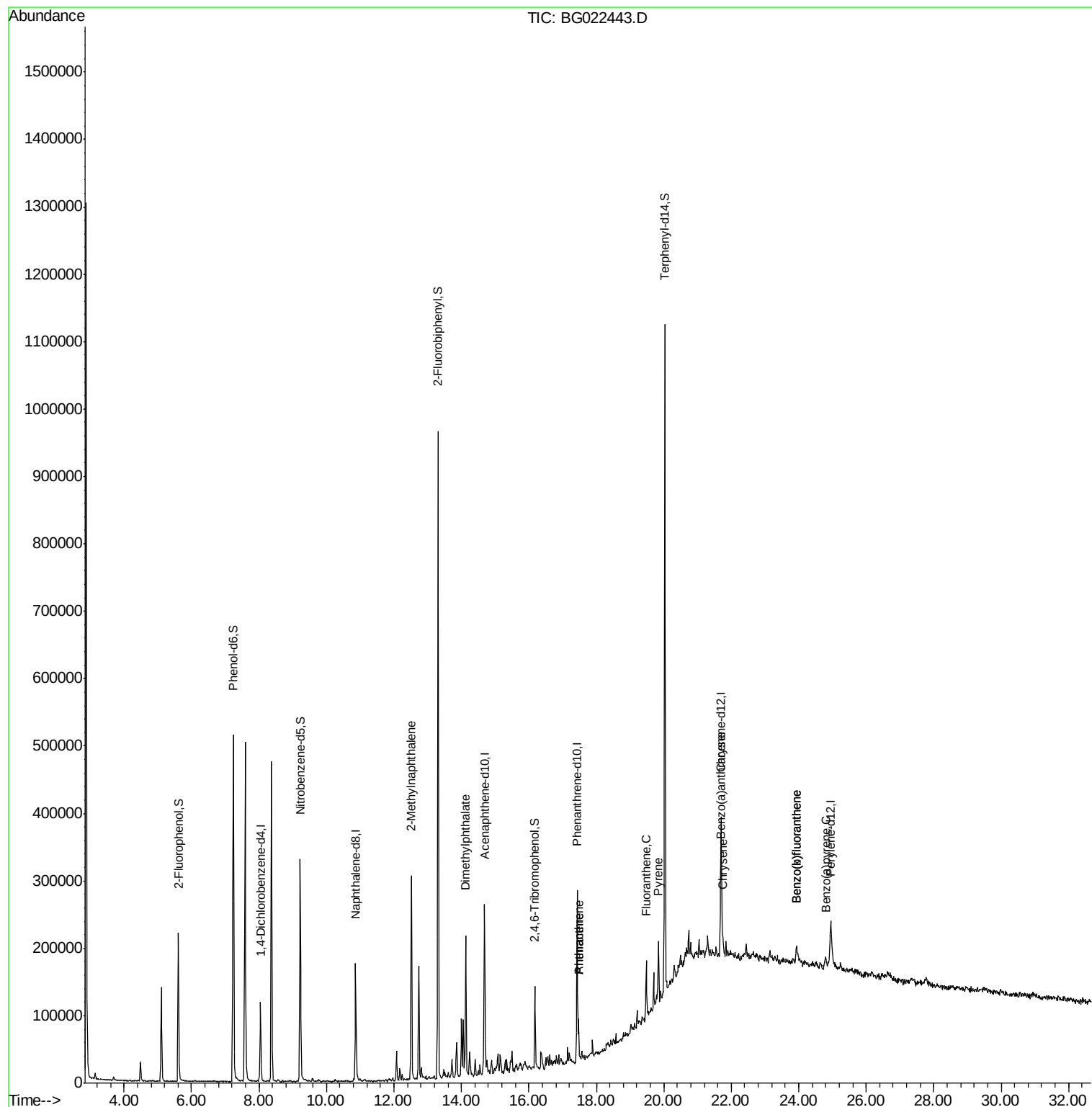
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.05	152	41808	20.00	ng	-0.05
21) Naphthalene-d8	10.87	136	189967	20.00	ng	-0.04
38) Acenaphthene-d10	14.68	164	93089	20.00	ng	-0.04
63) Phenanthrene-d10	17.43	188	164079	20.00	ng	-0.04
75) Chrysene-d12	21.70	240	129419	20.00	ng	-0.04
86) Perylene-d12	24.96	264	96210	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	141453	65.42	ng	-0.03
7) Phenol-d6	7.23	99	452091	132.98	ng	-0.02
23) Nitrobenzene-d5	9.23	82	266831	97.93	ng	-0.03
41) 2,4,6-Tribromophenol	16.18	330	24817	23.59	ng	-0.03
44) 2-Fluorobiphenyl	13.31	172	569869	93.29	ng	-0.03
78) Terphenyl-d14	20.03	244	443229	81.31	ng	-0.03
Target Compounds						Qvalue
37) 2-Methylnaphthalene	12.52	142	180714	25.82	ng	95
49) Dimethylphthalate	14.13	163	161043	20.86	ng	100
70) Phenanthrene	17.48	178	39457	4.43	ng	98
71) Anthracene	17.48	178	39457	4.46	ng	97
74) Fluoranthene	19.48	202	51240	5.00	ng	94
77) Pyrene	19.84	202	46374	5.76	ng	98
80) Benzo(a)anthracene	21.68	228	20509	2.83	ng	# 89
82) Chrysene	21.75	228	20151	2.85	ng	# 90
87) Benzo(b)fluoranthene	23.92	252	19221	3.43	ng	# 69
88) Benzo(k)fluoranthene	23.92	252	19221	3.48	ng	# 69
89) Benzo(a)pyrene	24.80	252	10951	2.04	ng	# 51

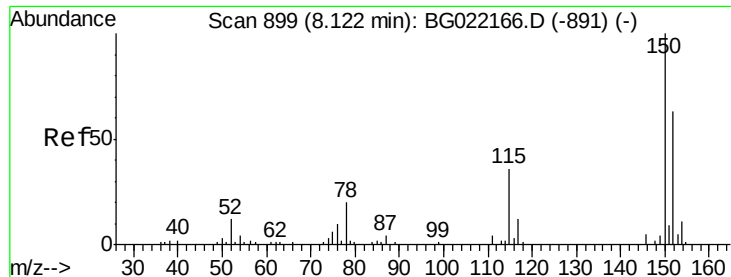
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG061716\
Data File : BG022443.D
Acq On : 19 Jun 2016 3:58
Operator : UM/SJ
Sample : H3489-05
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
S6-B2(0-10)C

Quant Time: Jun 20 01:28:27 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.05 min Scan# 886

Delta R.T. -0.05 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

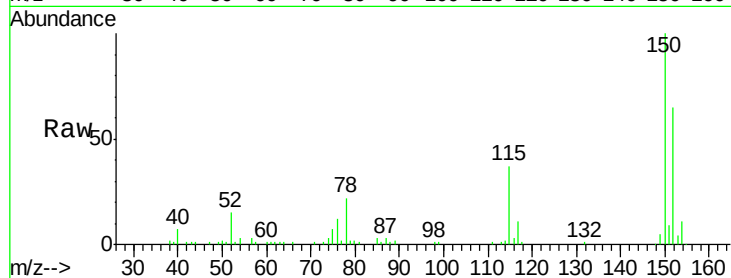
Tgt Ion:152 Resp: 41808

Ion Ratio Lower Upper

152 100

150 155.0 130.1 195.1

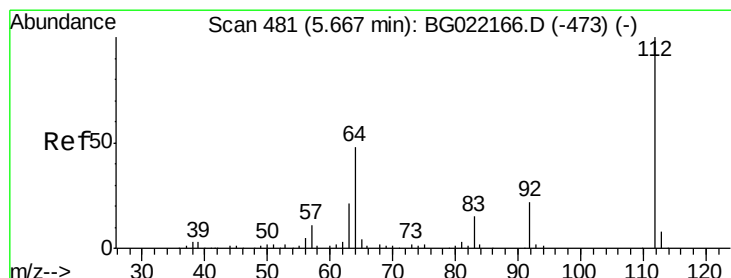
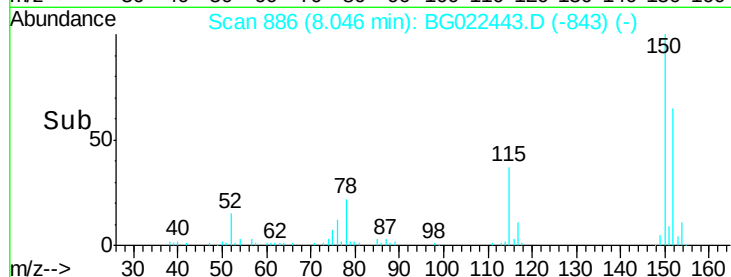
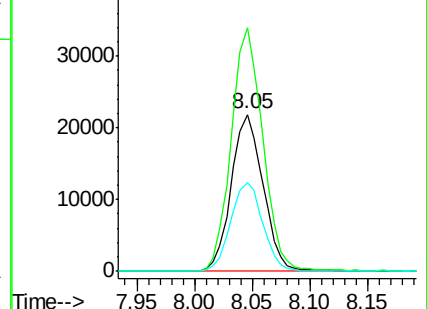
115 56.8 62.2 93.2#



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: 65.42 ng

RT: 5.61 min Scan# 471

Delta R.T. -0.03 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

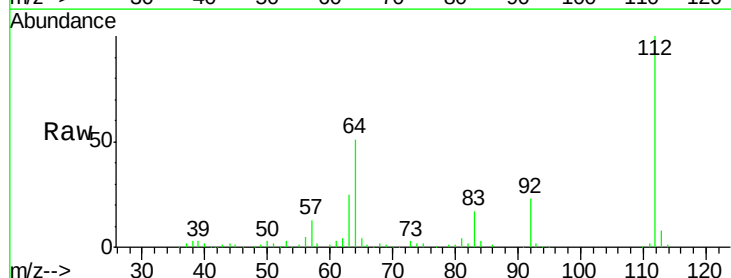
Tgt Ion:112 Resp: 141453

Ion Ratio Lower Upper

112 100

64 51.1 51.1 76.7#

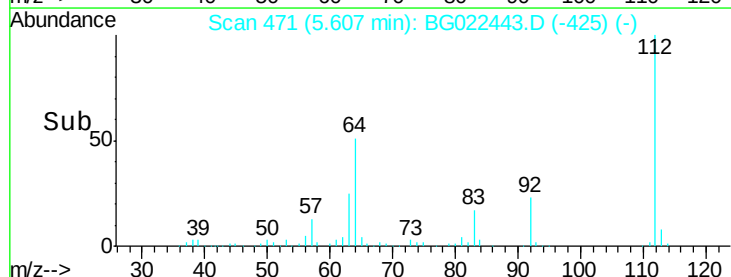
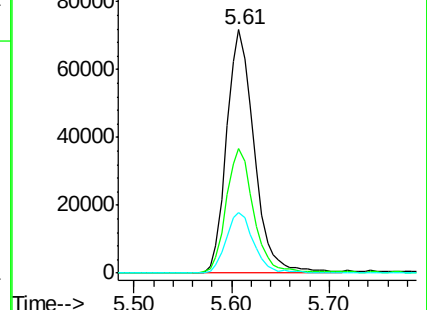
63 24.9 24.6 37.0

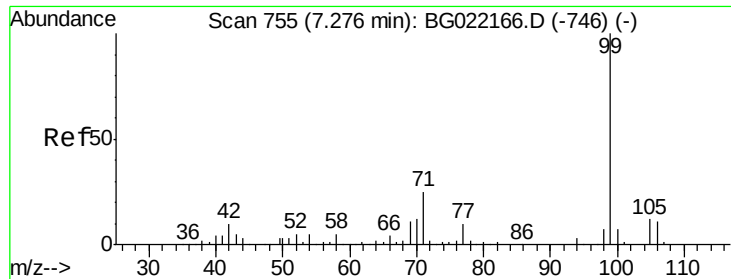


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 132.98 ng

RT: 7.23 min Scan# 748

Delta R.T. -0.02 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

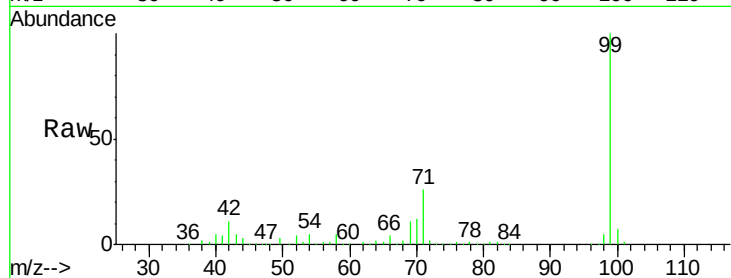
Tgt Ion: 99 Resp: 452091

Ion Ratio Lower Upper

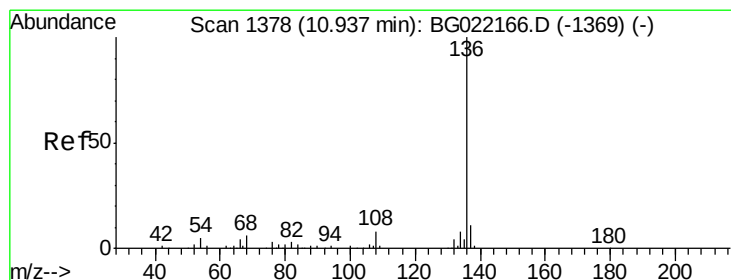
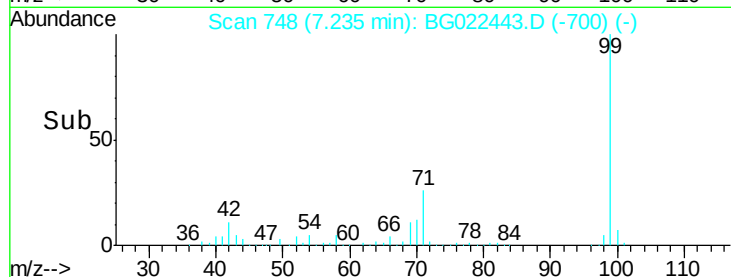
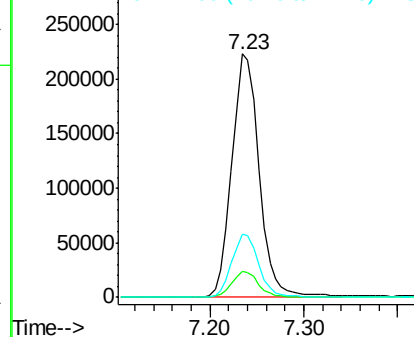
99 100

42 10.8 16.4 24.6#

71 26.0 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: 10.87 min Scan# 1366

Delta R.T. -0.04 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Tgt Ion: 136 Resp: 189967

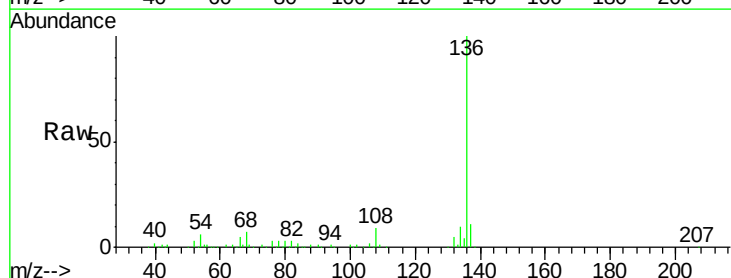
Ion Ratio Lower Upper

136 100

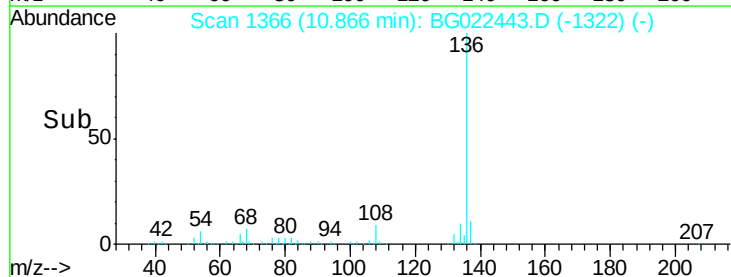
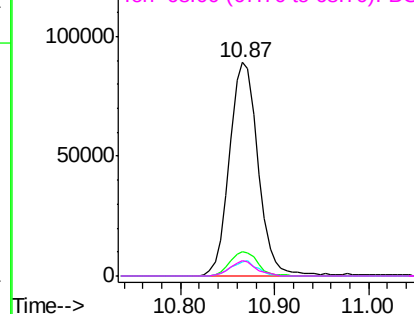
137 11.3 9.0 13.4

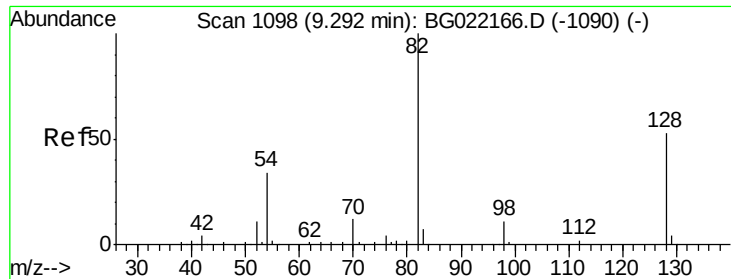
54 6.3 9.6 14.4#

68 7.2 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

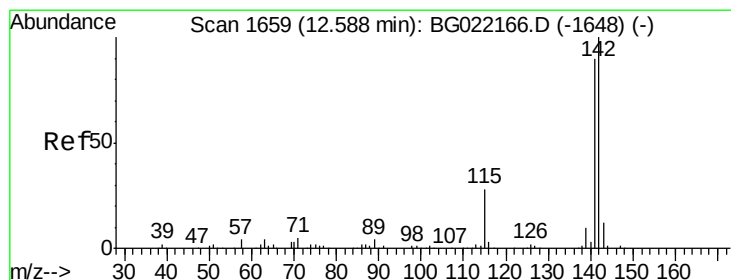
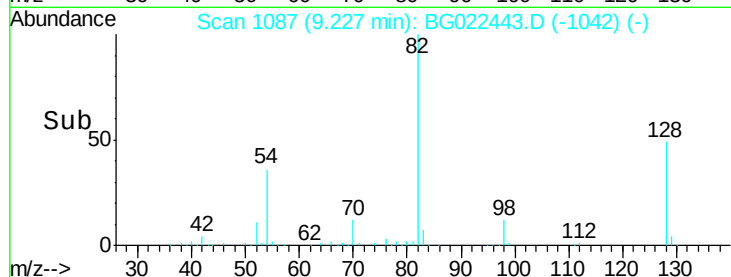
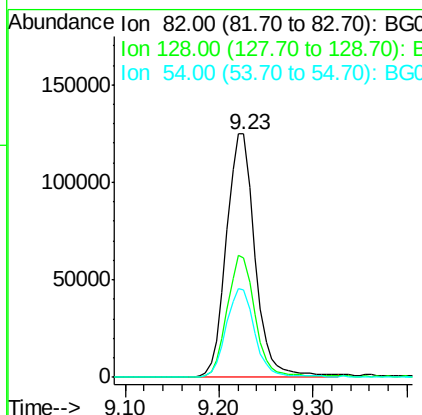
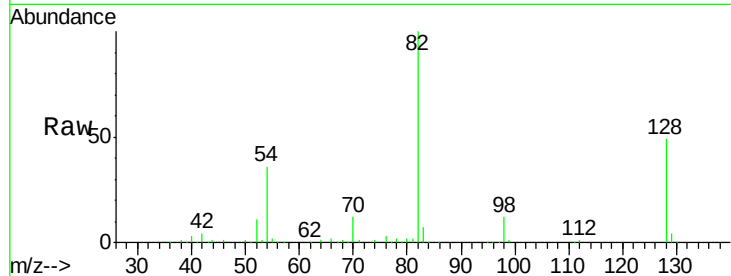




#23
 Nitrobenzene-d5
 Concen: 97.93 ng
 RT: 9.23 min Scan# 1087
 Delta R.T. -0.03 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

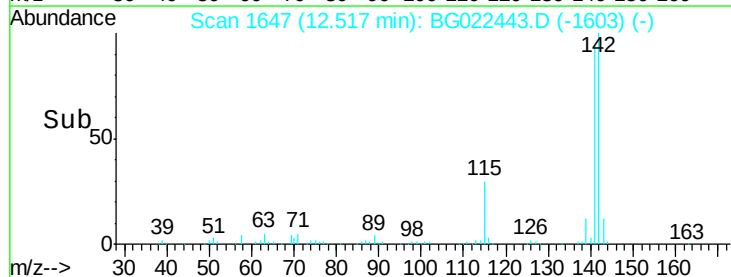
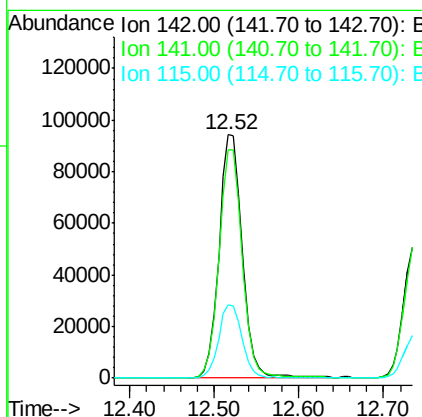
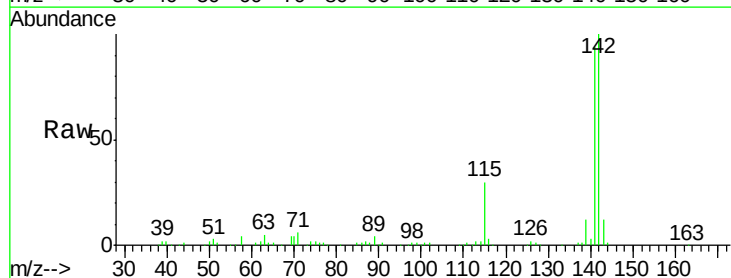
Instrument :
 BNA_G
 ClientSampleId :
 S6-B2(0-10)C

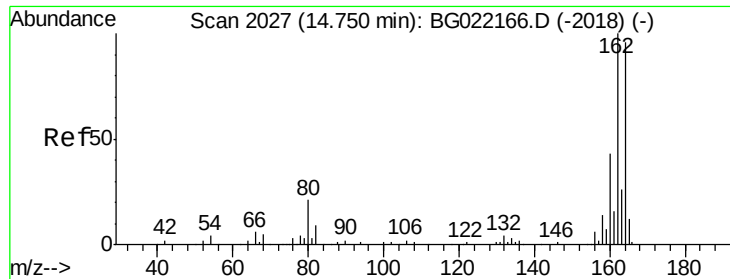
Tgt Ion: 82 Resp: 266831
 Ion Ratio Lower Upper
 82 100
 128 49.3 33.4 50.0
 54 36.1 46.1 69.1#



#37
 2-Methylnaphthalene
 Concen: 25.82 ng
 RT: 12.52 min Scan# 1647
 Delta R.T. -0.04 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

Tgt Ion: 142 Resp: 180714
 Ion Ratio Lower Upper
 142 100
 141 93.6 71.4 107.0
 115 30.2 27.4 41.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.68 min Scan# 2016

Delta R.T. -0.04 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

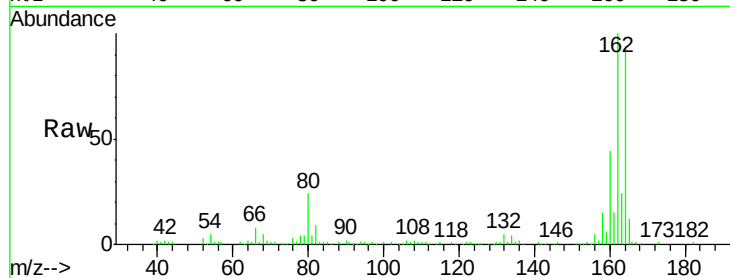
Tgt Ion:164 Resp: 93089

Ion Ratio Lower Upper

164 100

162 106.4 78.0 117.0

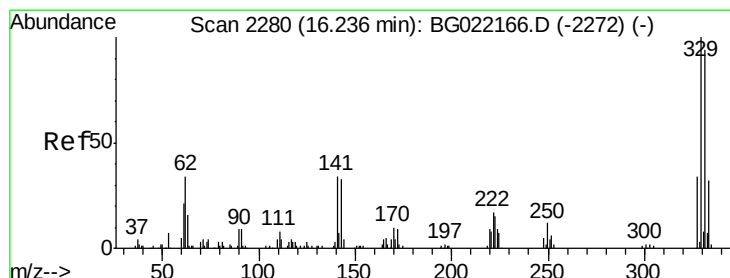
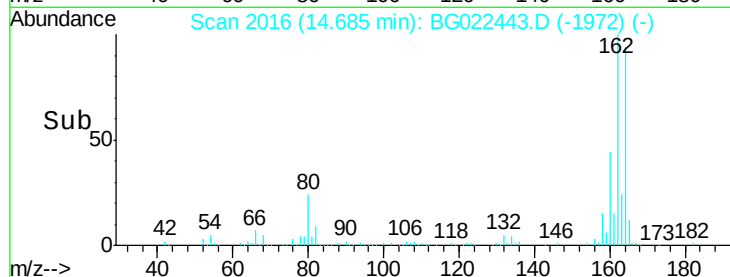
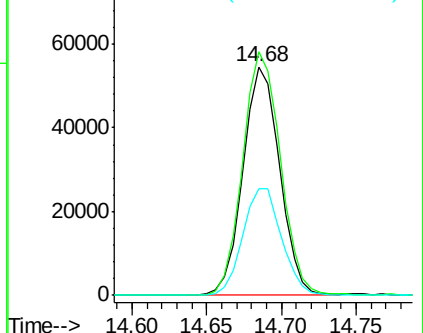
160 46.5 32.9 49.3



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: 23.59 ng

RT: 16.18 min Scan# 2271

Delta R.T. -0.03 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

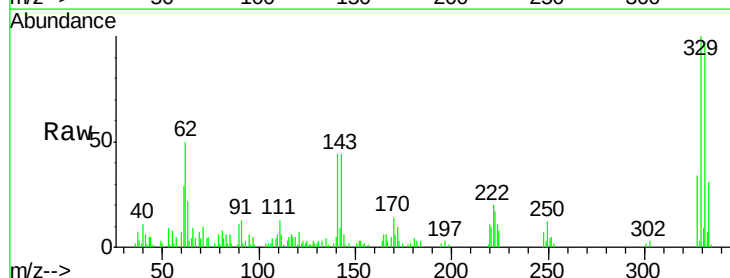
Tgt Ion:330 Resp: 24817

Ion Ratio Lower Upper

330 100

332 96.7 78.0 117.0

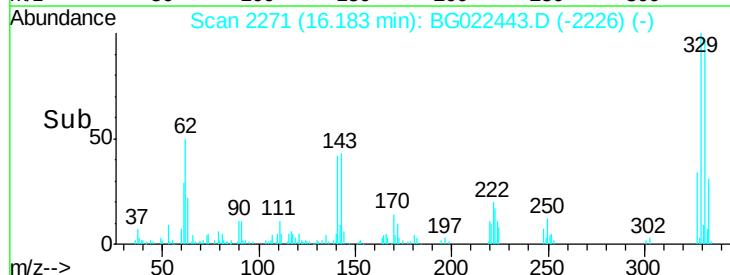
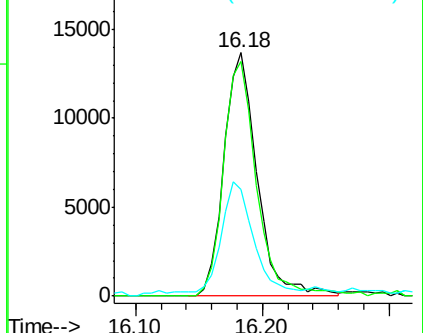
141 42.7 33.8 50.8

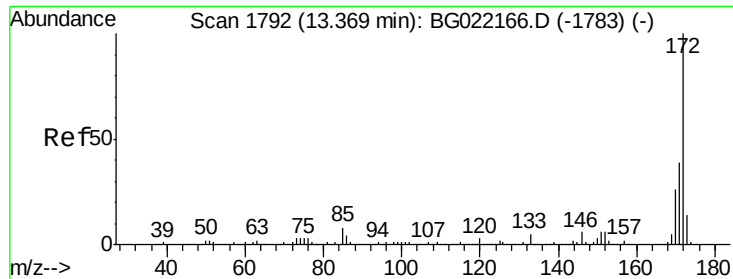


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

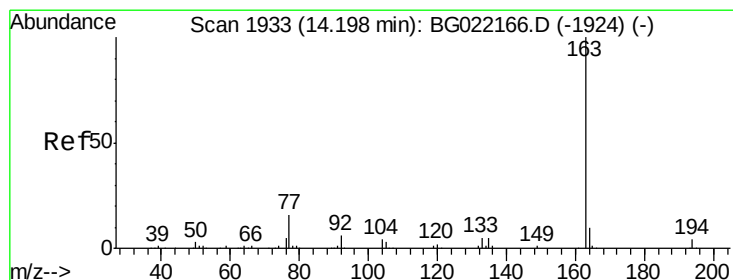
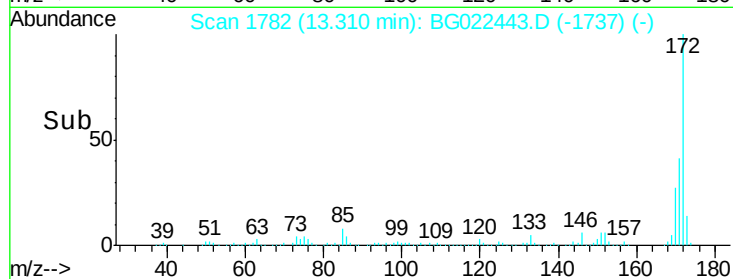
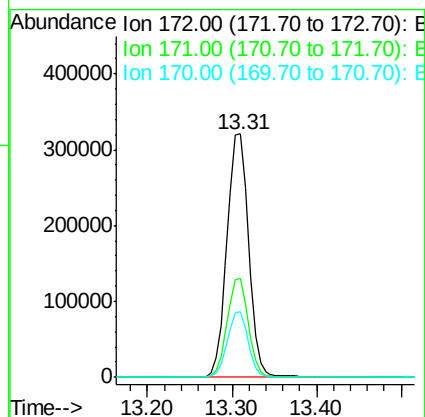
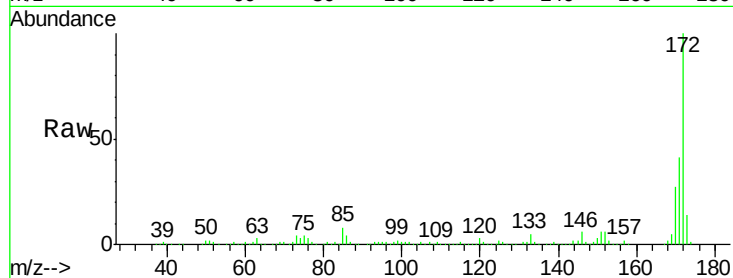




#44
 2-Fluorobiphenyl
 Concen: 93.29 ng
 RT: 13.31 min Scan# 1782
 Delta R.T. -0.03 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

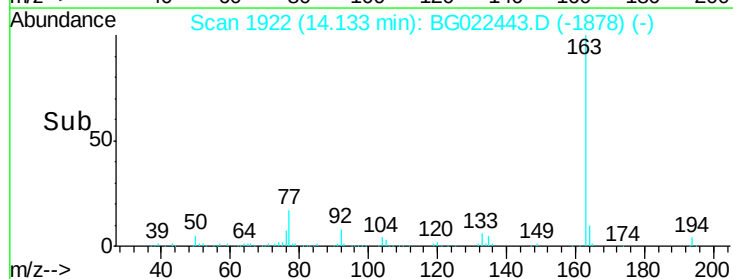
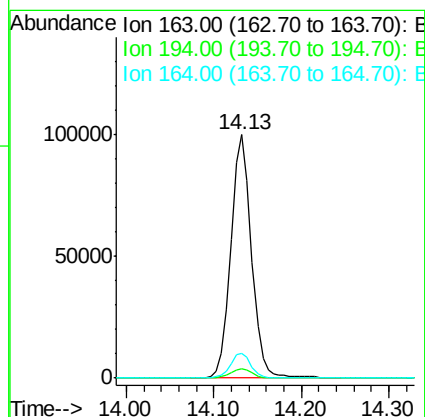
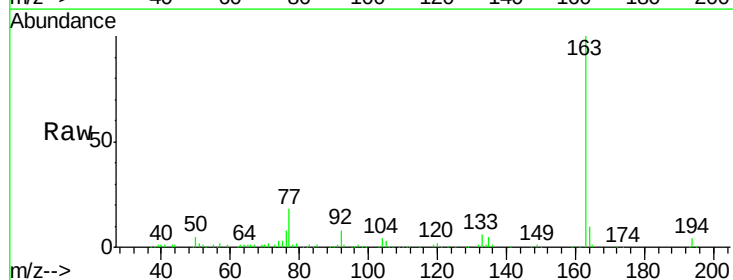
Instrument :
 BNA_G
 ClientSampleId :
 S6-B2(0-10)C

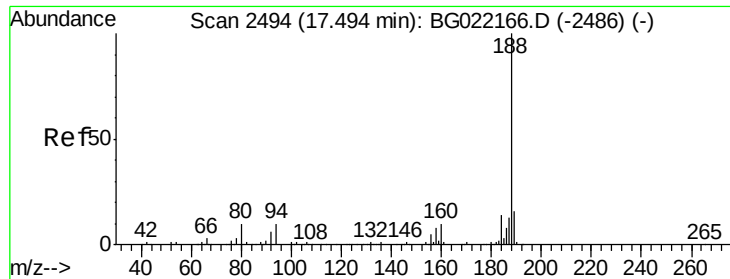
Tgt Ion:172 Resp: 569869
 Ion Ratio Lower Upper
 172 100
 171 40.6 27.8 41.6
 170 27.0 19.6 29.4



#49
 Dimethylphthalate
 Concen: 20.86 ng
 RT: 14.13 min Scan# 1922
 Delta R.T. -0.04 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

Tgt Ion:163 Resp: 161043
 Ion Ratio Lower Upper
 163 100
 194 4.0 3.0 4.6
 164 10.0 8.1 12.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.43 min Scan# 2483

Delta R.T. -0.04 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

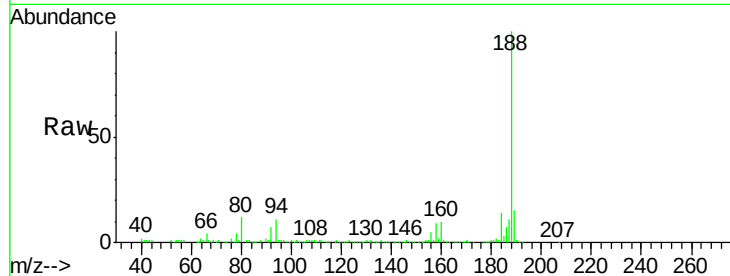
Tgt Ion:188 Resp: 164079

Ion Ratio Lower Upper

188 100

94 11.1 7.5 11.3

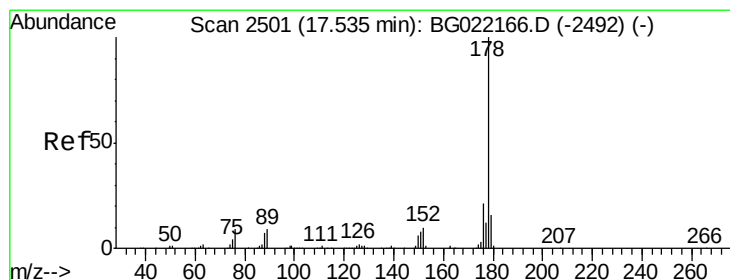
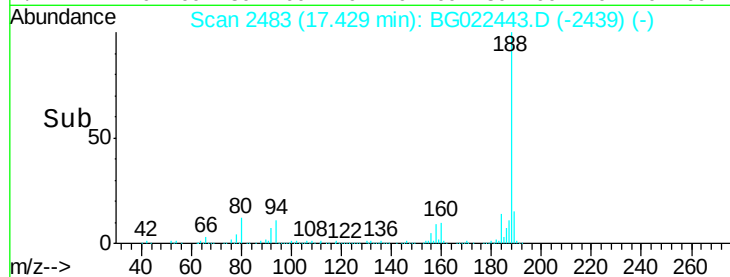
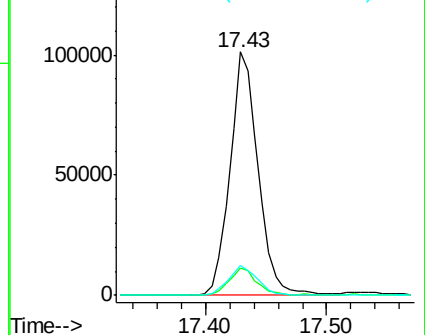
80 12.4 8.6 13.0



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: 4.43 ng

RT: 17.48 min Scan# 2491

Delta R.T. -0.03 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

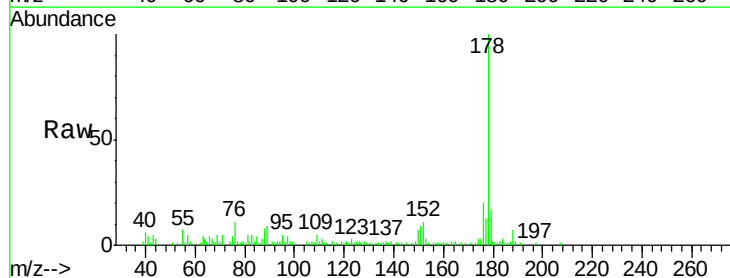
Tgt Ion:178 Resp: 39457

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

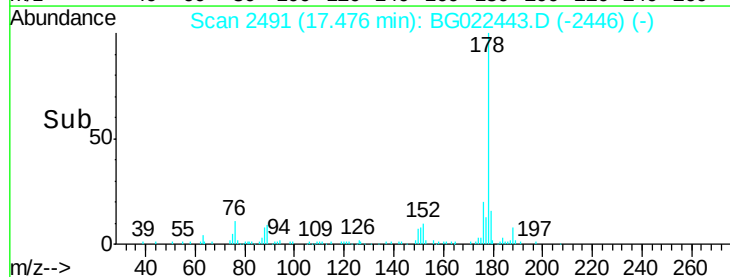
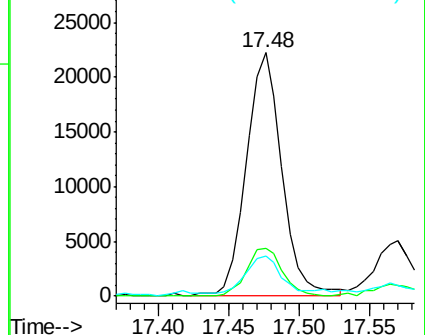
179 16.6 12.0 18.0

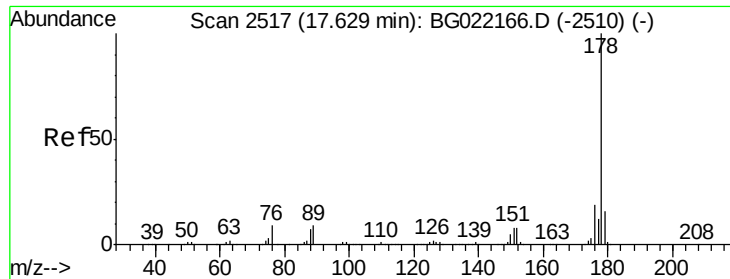


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

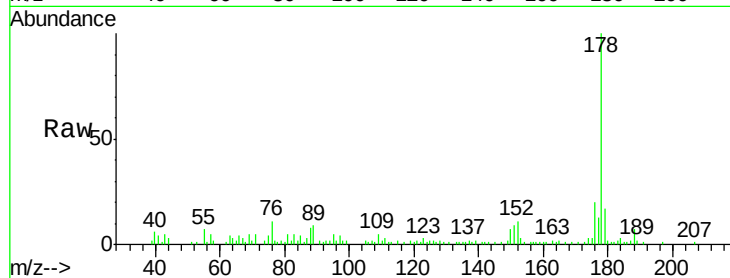




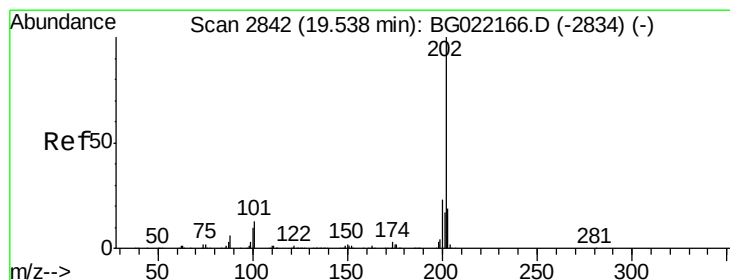
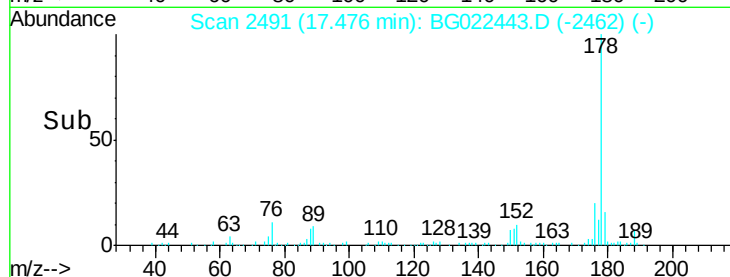
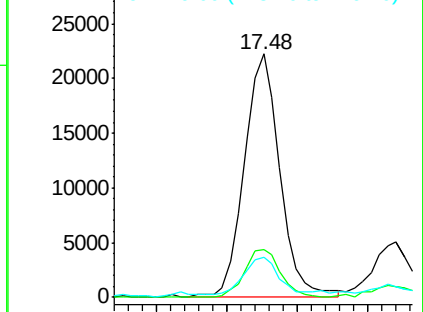
#71
 Anthracene
 Concen: 4.46 ng
 RT: 17.48 min Scan# 2491
 Delta R.T. -0.13 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

Instrument :
 BNA_G
 ClientSampleId :
 S6-B2(0-10)C

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.0	22.4
179	16.6	12.2	18.4

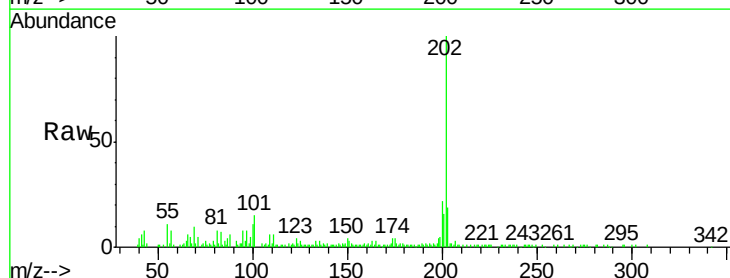


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

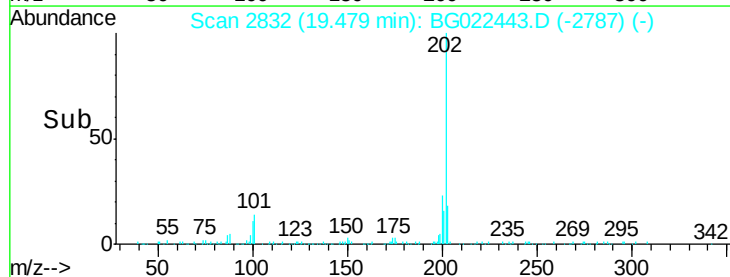
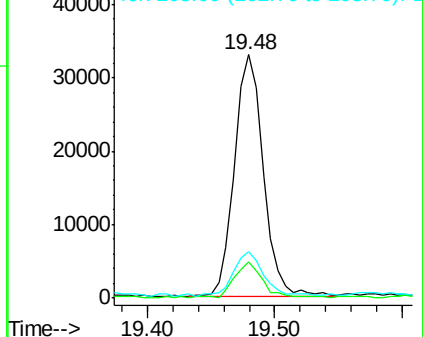


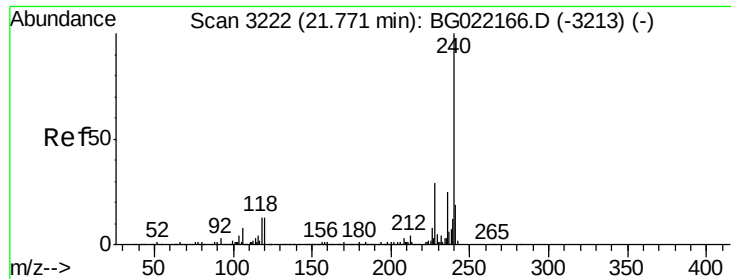
#74
 Fluoranthene
 Concen: 5.00 ng
 RT: 19.48 min Scan# 2832
 Delta R.T. -0.03 min
 Lab File: BG022443.D
 Acq: 19 Jun 2016 3:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.9	0.0	31.0
203	19.3	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: 21.70 min Scan# 3210

Delta R.T. -0.04 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

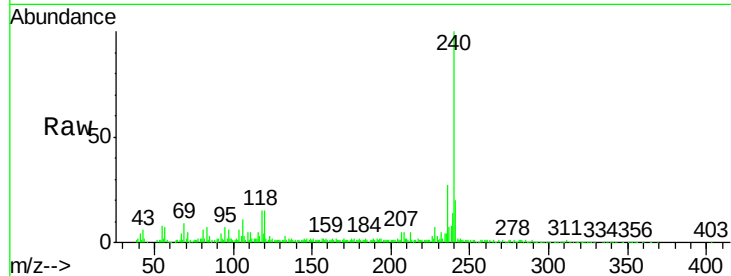
Tgt Ion:240 Resp: 129419

Ion Ratio Lower Upper

240 100

120 14.5 8.4 12.6#

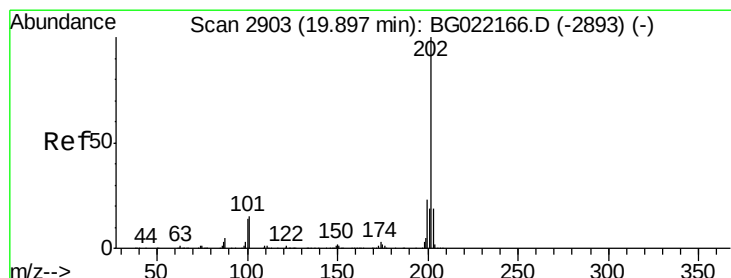
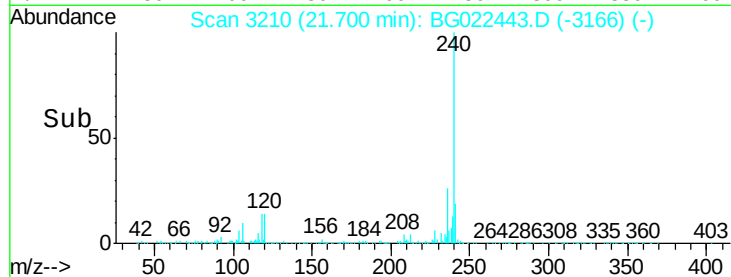
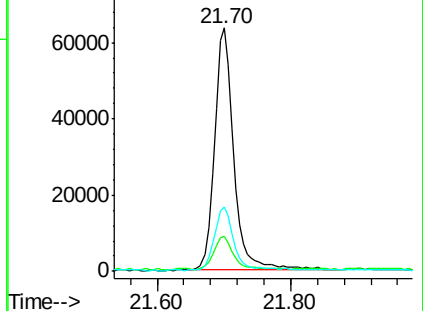
236 26.6 19.6 29.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 5.76 ng

RT: 19.84 min Scan# 2894

Delta R.T. -0.03 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

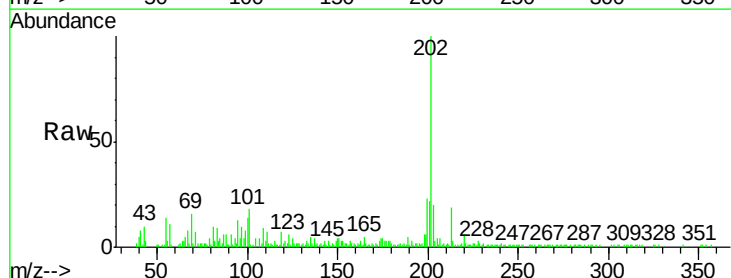
Tgt Ion:202 Resp: 46374

Ion Ratio Lower Upper

202 100

200 22.5 18.2 27.2

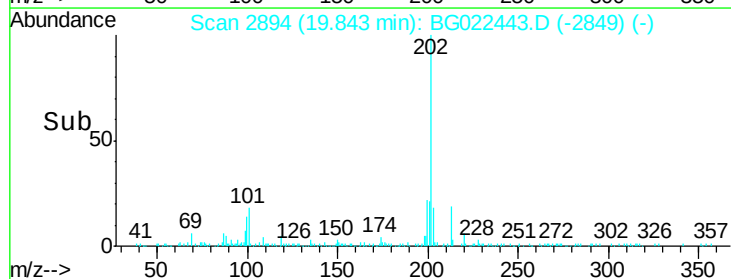
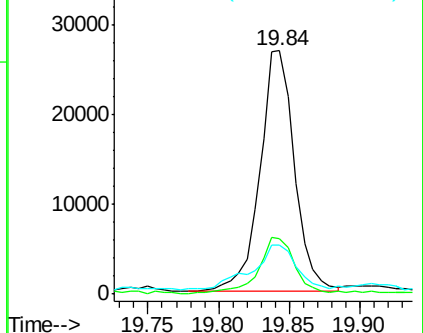
203 20.1 15.0 22.4

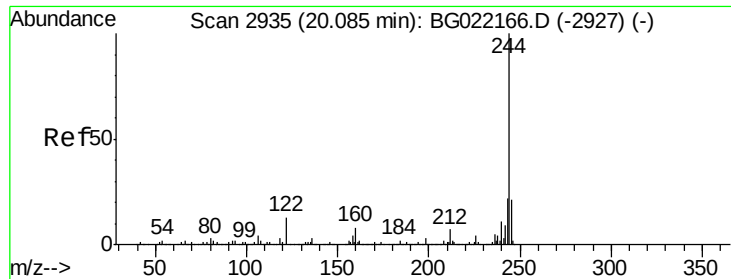


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 81.31 ng

RT: 20.03 min Scan# 2925

Delta R.T. -0.03 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

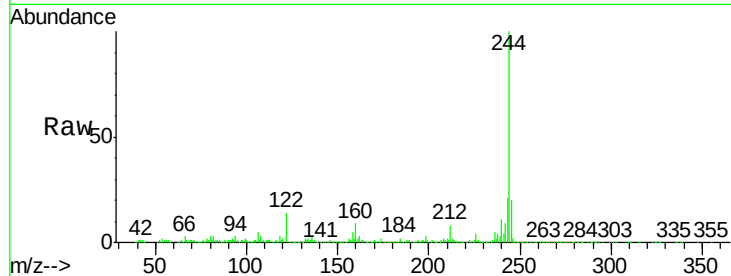
Tgt Ion:244 Resp: 443229

Ion Ratio Lower Upper

244 100

212 8.3 6.5 9.7

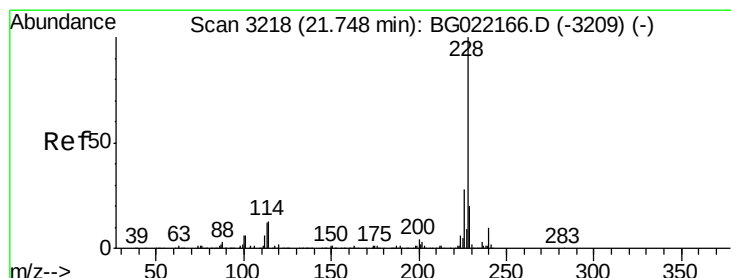
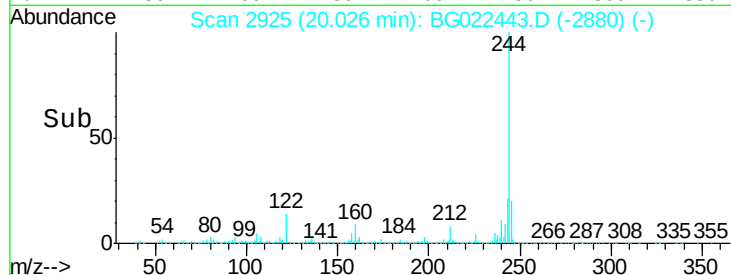
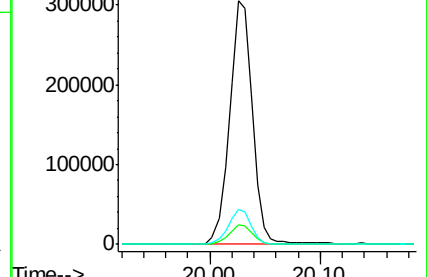
122 14.4 8.6 12.8#



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: 2.83 ng

RT: 21.68 min Scan# 3206

Delta R.T. -0.05 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

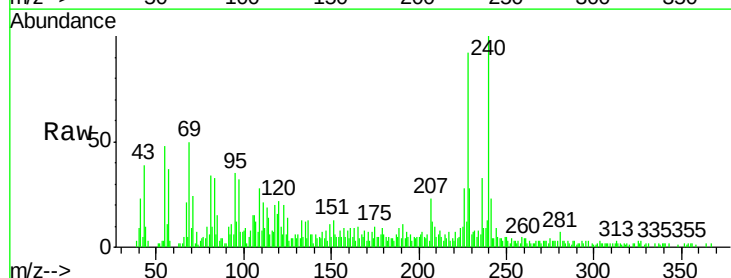
Tgt Ion:228 Resp: 20509

Ion Ratio Lower Upper

228 100

226 29.9 22.6 34.0

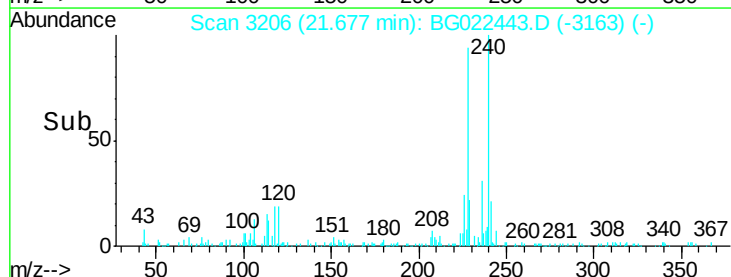
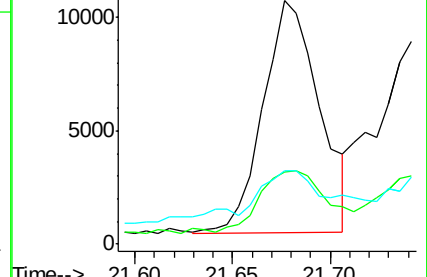
229 30.4 16.1 24.1#

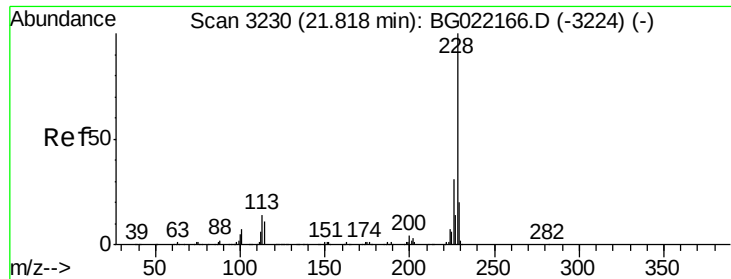


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 2.85 ng

RT: 21.75 min Scan# 3218

Delta R.T. -0.04 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

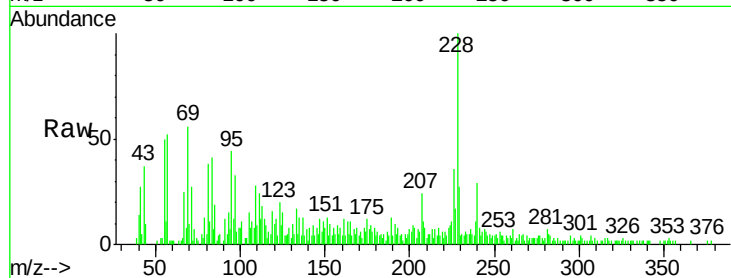
Tgt Ion:228 Resp: 20151

Ion Ratio Lower Upper

228 100

226 35.6 25.4 38.0

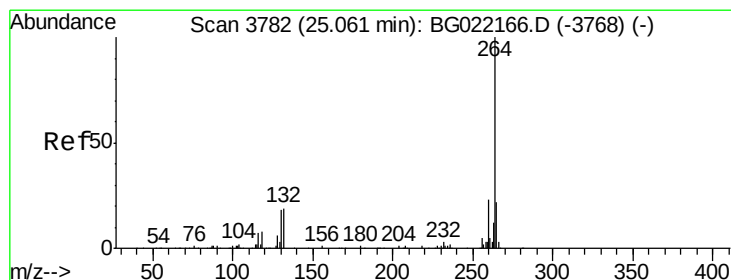
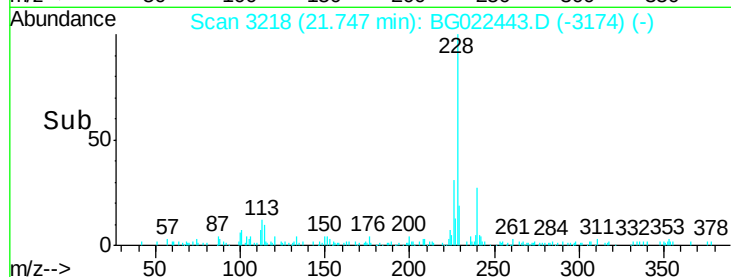
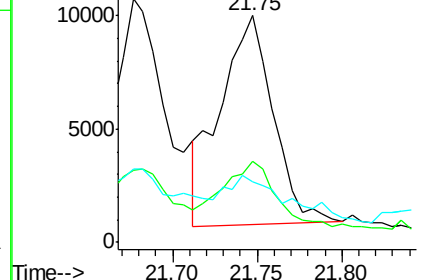
229 26.5 15.9 23.9#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 24.96 min Scan# 3764

Delta R.T. -0.06 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

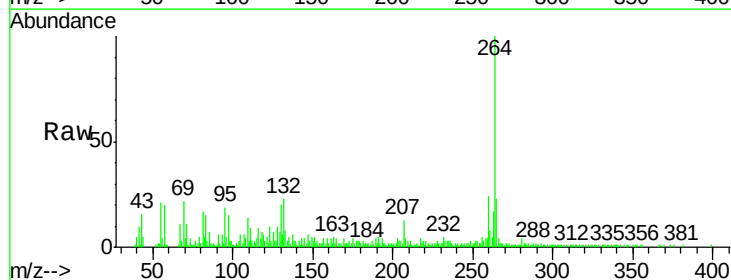
Tgt Ion:264 Resp: 96210

Ion Ratio Lower Upper

264 100

260 24.2 20.2 30.4

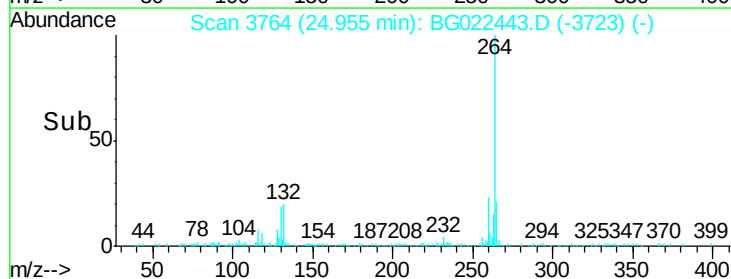
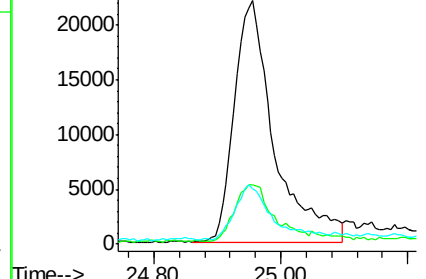
265 22.8 17.8 26.8

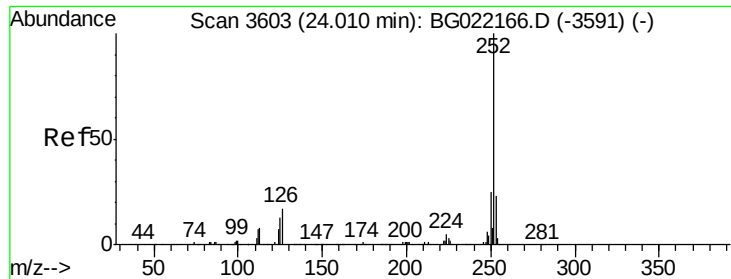


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 3.43 ng

RT: 23.92 min Scan# 3587

Delta R.T. -0.05 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C

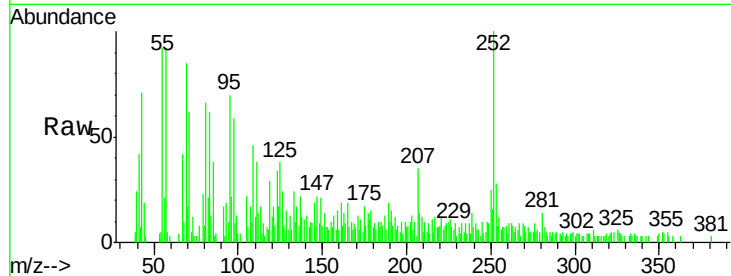
Tgt Ion:252 Resp: 19221

Ion Ratio Lower Upper

252 100

253 27.5 17.5 26.3#

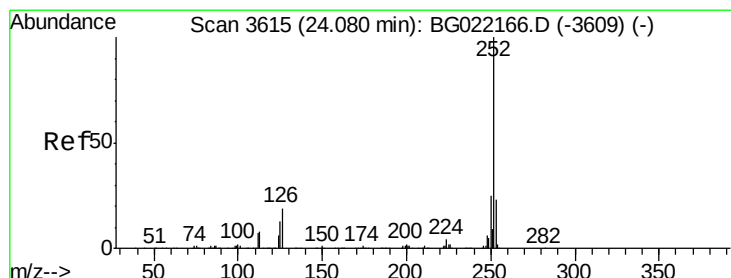
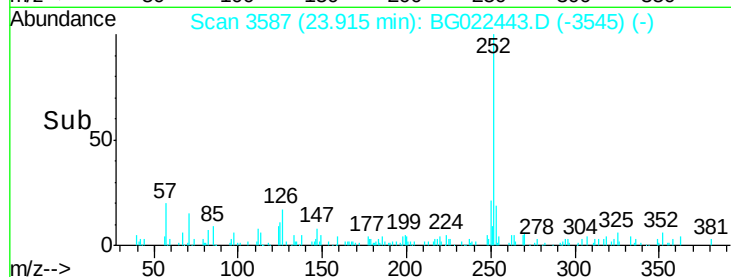
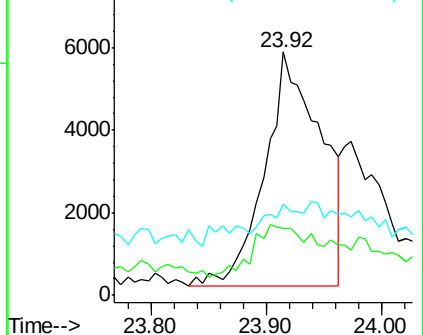
125 37.6 8.6 13.0#



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: 3.48 ng

RT: 23.92 min Scan# 3587

Delta R.T. -0.13 min

Lab File: BG022443.D

Acq: 19 Jun 2016 3:58

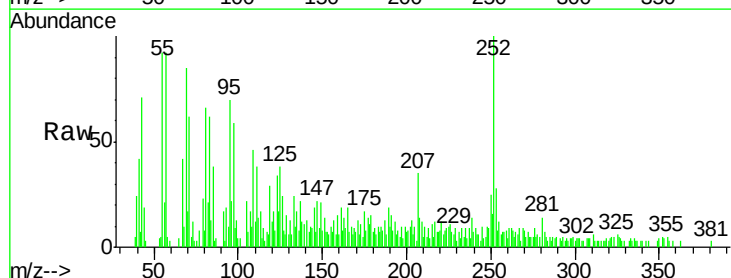
Tgt Ion:252 Resp: 19221

Ion Ratio Lower Upper

252 100

253 27.5 17.8 26.8#

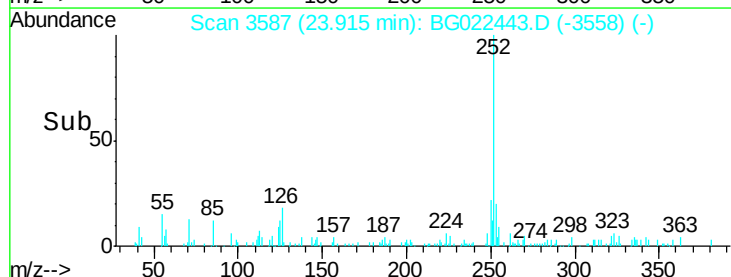
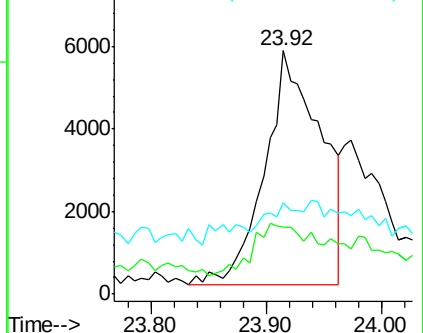
125 37.6 8.3 12.5#

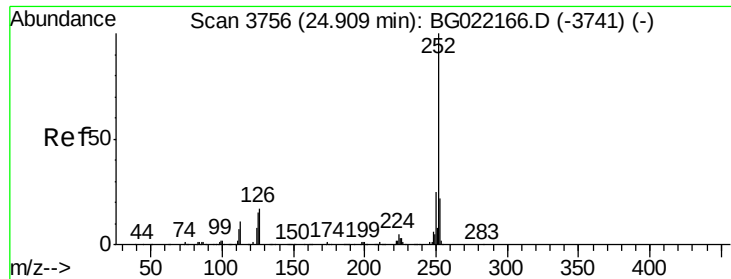


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.04 ng

RT: 24.80 min Scan# 3737

Delta R.T. -0.06 min

Lab File: BG022443.D

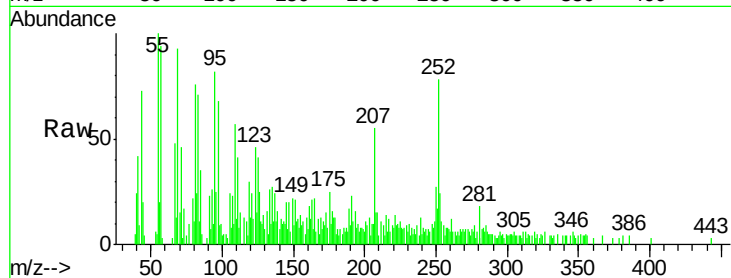
Acq: 19 Jun 2016 3:58

Instrument :

BNA_G

ClientSampleId :

S6-B2(0-10)C



Tgt Ion:	252	Resp:	10951
Ion Ratio	Lower	Upper	
252	100		
253	30.4	17.1	25.7#
125	52.2	9.6	14.4#

