

Data Path : Z:\HPCHEM1\BNA G\Data\BG030216\
 Data File : BG021237.D
 Acq On : 3 Mar 2016 9:22
 Operator : UM/SJ
 Sample : H1557-02RE 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Mar 03 10:42:51 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 02 11:46:16 2016
 Response via : Initial Calibration

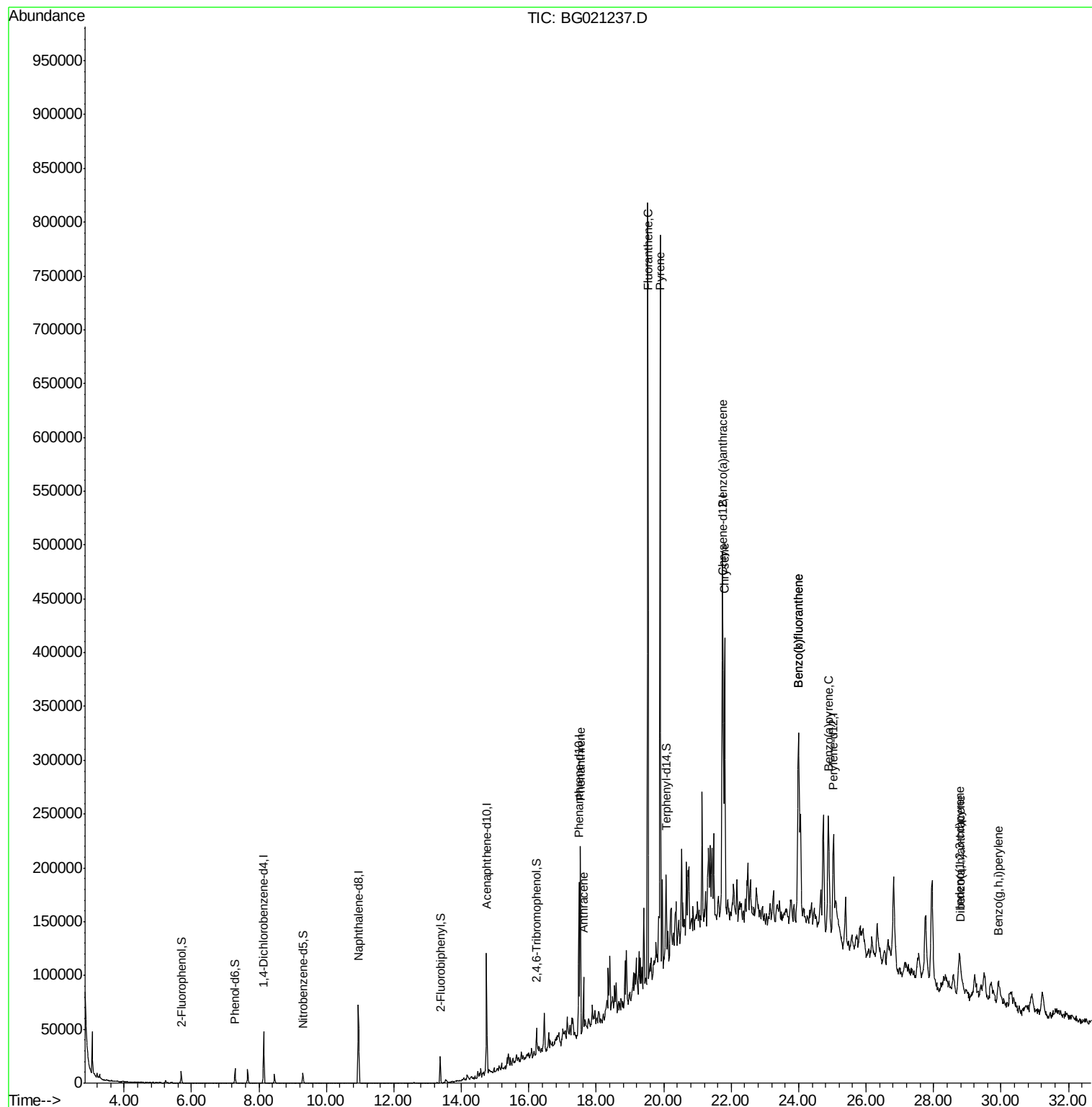
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	12255	20.00	ng	-0.02
21) Naphthalene-d8	10.95	136	60363	20.00	ng	-0.02
38) Acenaphthene-d10	14.75	164	33460	20.00	ng	-0.02
63) Phenanthrene-d10	17.49	188	71720	20.00	ng	-0.02
75) Chrysene-d12	21.76	240	81597	20.00	ng	0.00
86) Perylene-d12	25.04	264	78654	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.69	112	4892	6.35	ng	-0.02
7) Phenol-d6	7.29	99	8130	6.41	ng	-0.02
23) Nitrobenzene-d5	9.30	82	6235	4.37	ng	-0.02
41) 2,4,6-Tribromophenol	16.23	330	2213	6.36	ng	-0.02
44) 2-Fluorobiphenyl	13.37	172	12377	5.25	ng	-0.02
78) Terphenyl-d14	20.08	244	17412	5.17	ng	-0.02
Target Compounds						Qvalue
70) Phenanthrene	17.53	178	98379	25.42	ng	99
71) Anthracene	17.62	178	30464	7.69	ng	99
74) Fluoranthene	19.53	202	406742	89.45	ng	97
77) Pyrene	19.89	202	405694	83.34	ng	98
80) Benzo(a)anthracene	21.73	228	192613	39.87	ng	98
82) Chrysene	21.80	228	187093	40.87	ng	98
85) Indeno(1,2,3-cd)pyrene	28.76	276	60091	11.45	ng	# 93
87) Benzo(b)fluoranthene	24.00	252	215392	43.54	ng	97
88) Benzo(k)fluoranthene	24.00	252	215392	43.47	ng	96
89) Benzo(a)pyrene	24.88	252	110951	23.20	ng	# 93
90) Dibenzo(a,h)anthracene	28.81	278	18269	3.86	ng	# 93
91) Benzo(a,h,i)perylene	29.93	276	48919	10.70	ng	# 87

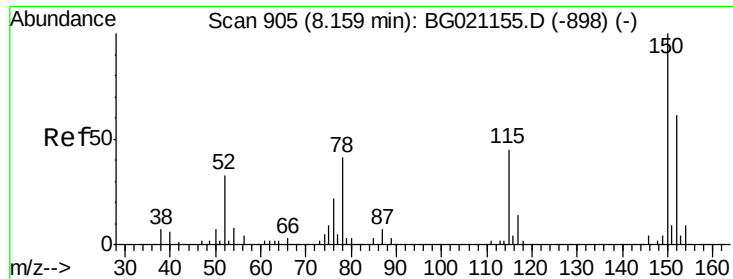
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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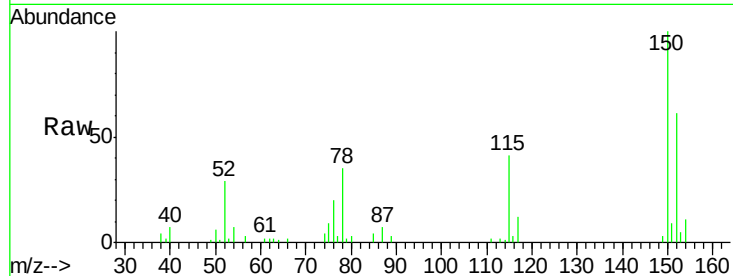


#1

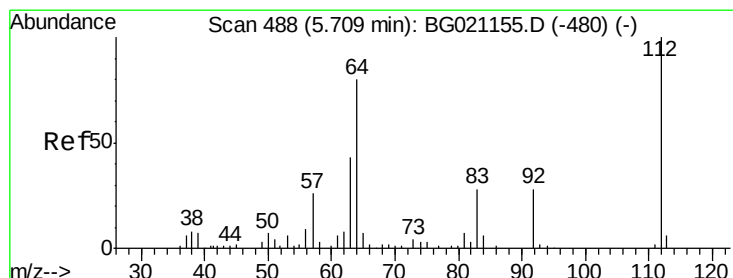
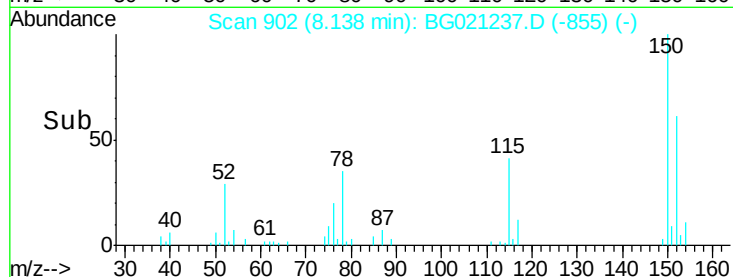
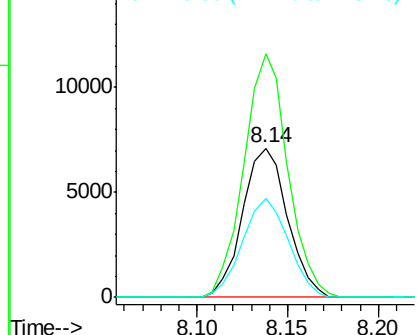
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 902
Delta R.T. -0.02 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 12255
Ion Ratio Lower Upper
152 100
150 163.3 123.4 185.2
115 66.8 43.3 64.9#



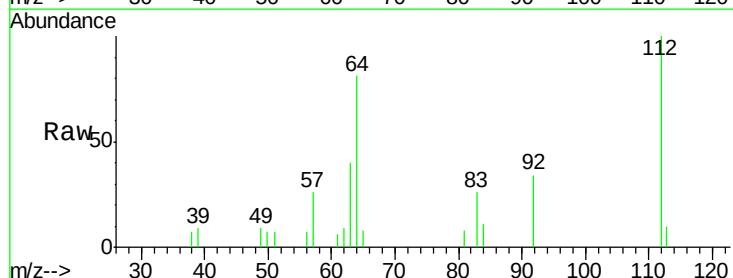
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



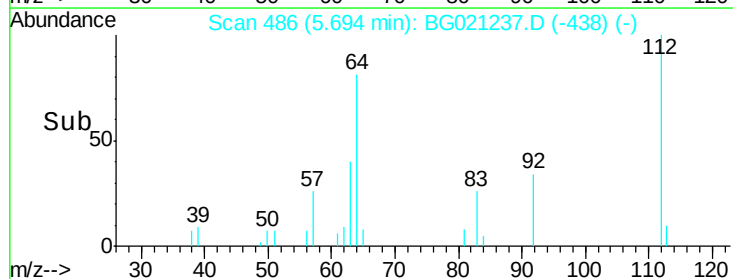
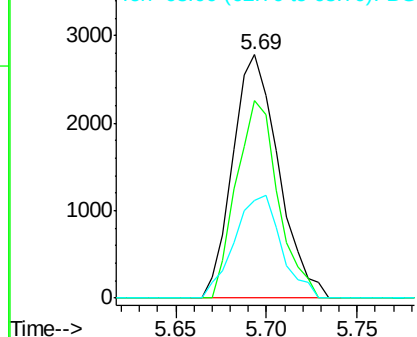
#5

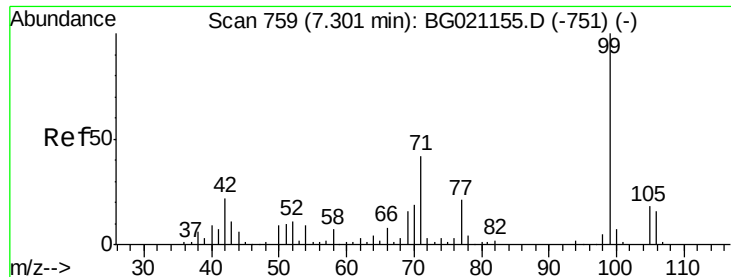
2-Fluorophenol
Concen: 6.35 ng
RT: 5.69 min Scan# 486
Delta R.T. -0.02 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

Tgt Ion:112 Resp: 4892
Ion Ratio Lower Upper
112 100
64 81.2 42.6 63.8#
63 40.2 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: 6.41 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

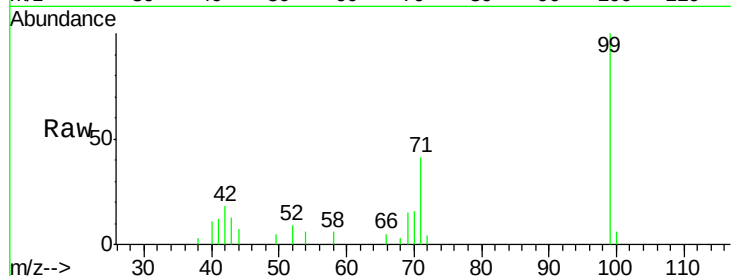
Tot Ion: 99 Resp: 8130

Ion Ratio Lower Upper

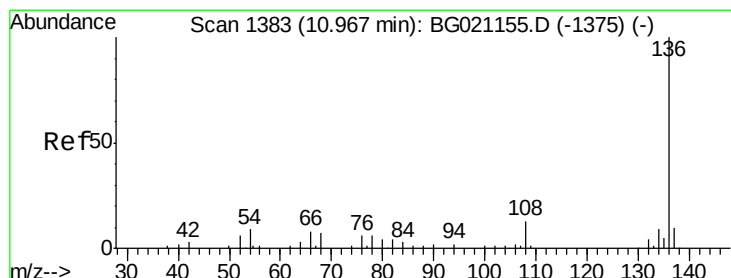
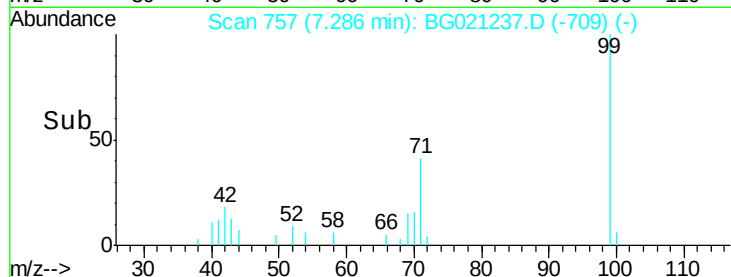
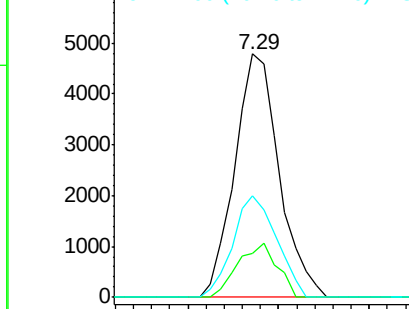
99 100

42 17.9 13.2 19.8

71 41.5 25.2 37.8#



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.95 min Scan# 1380

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Tgt Ion: 136 Resp: 60363

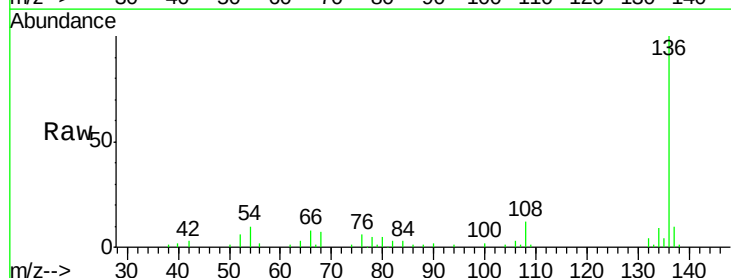
Ion Ratio Lower Upper

136 100

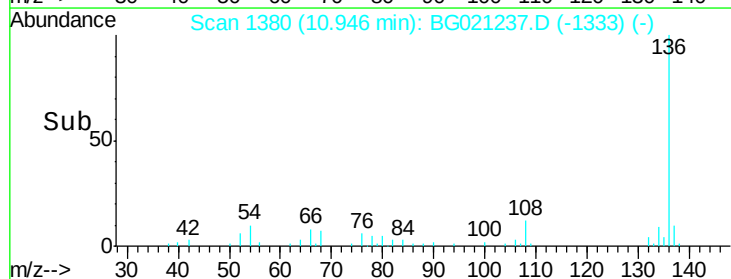
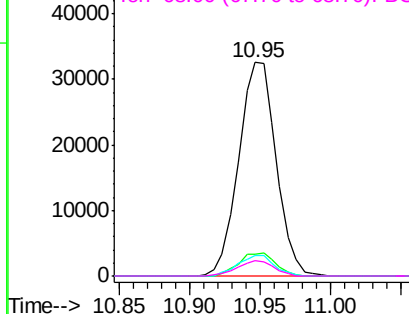
137 10.2 8.8 13.2

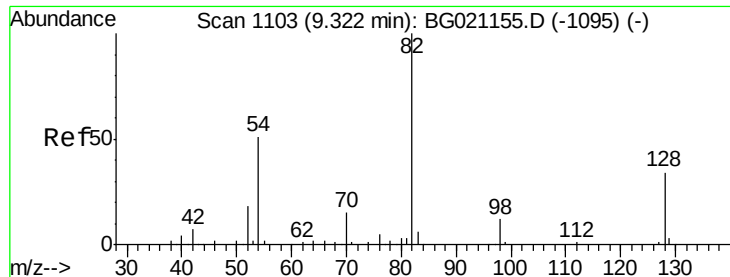
54 9.5 6.9 10.3

68 7.4 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

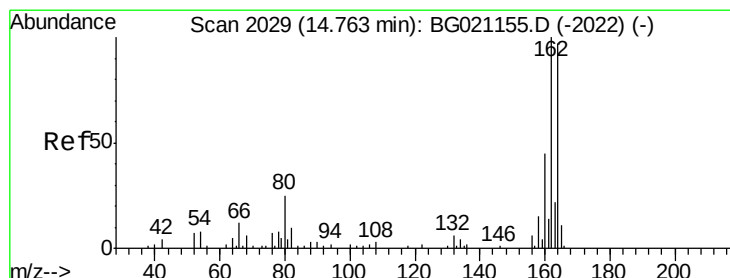
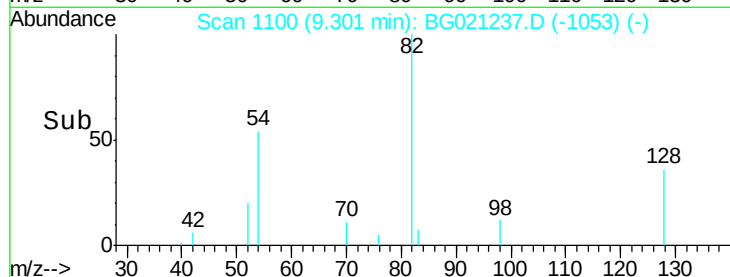
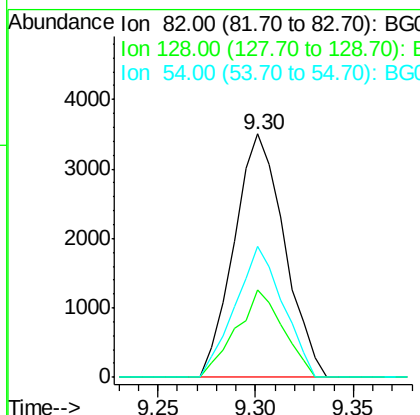
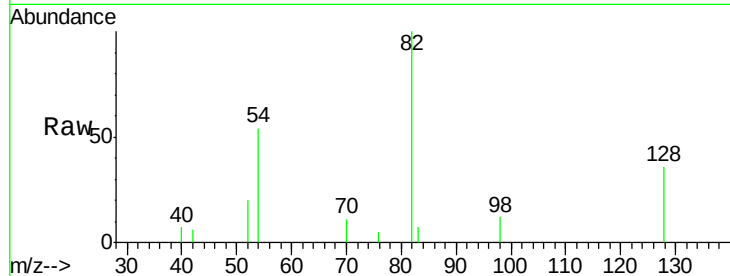




#23
 Nitrobenzene-d5
 Concen: 4.37 ng
 RT: 9.30 min Scan# 1100
 Delta R.T. -0.02 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

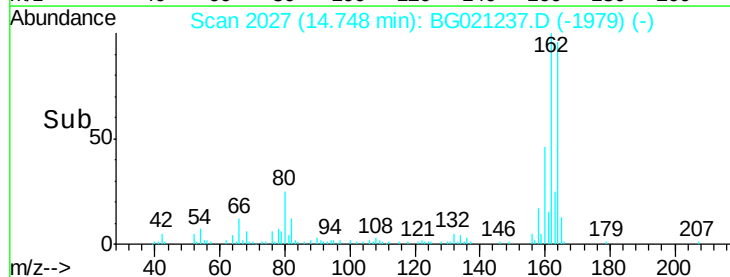
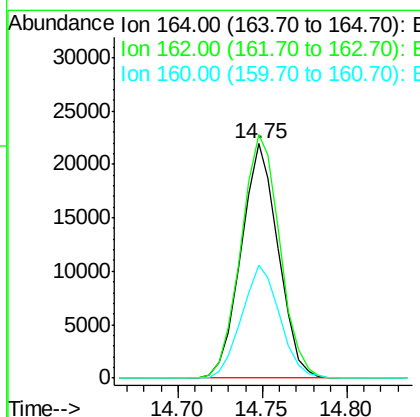
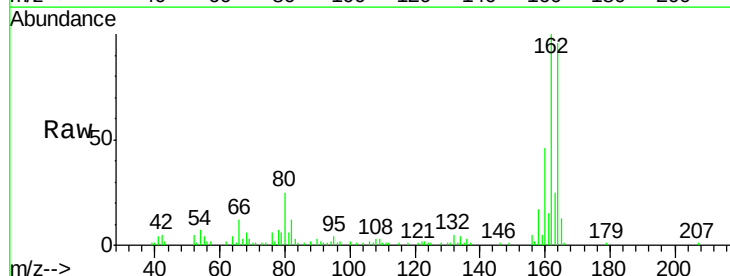
Instrument :
 BNA_G
 ClientSampled :

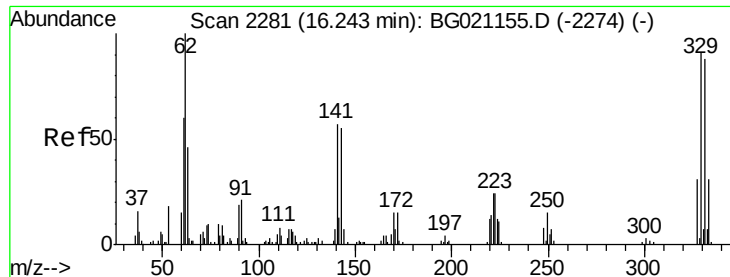
Tot Ion: 82 Resp: 6235
 Ion Ratio Lower Upper
 82 100
 128 35.9 36.3 54.5#
 54 53.9 37.6 56.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.75 min Scan# 2027
 Delta R.T. -0.02 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

Tgt Ion: 164 Resp: 33460
 Ion Ratio Lower Upper
 164 100
 162 104.0 80.6 120.8
 160 48.2 36.5 54.7

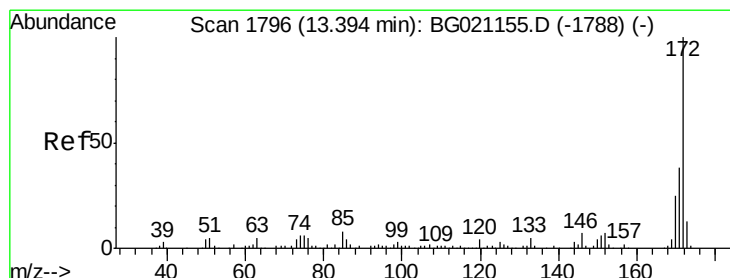
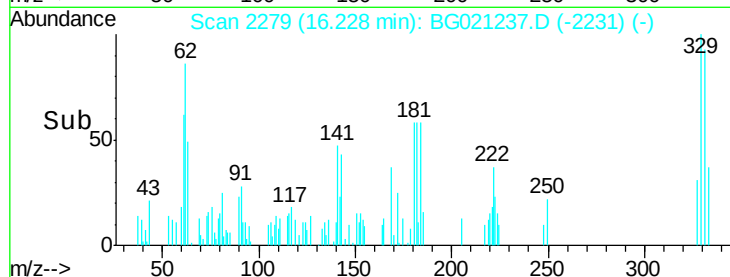
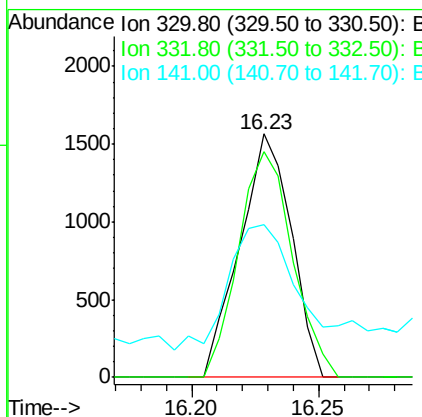
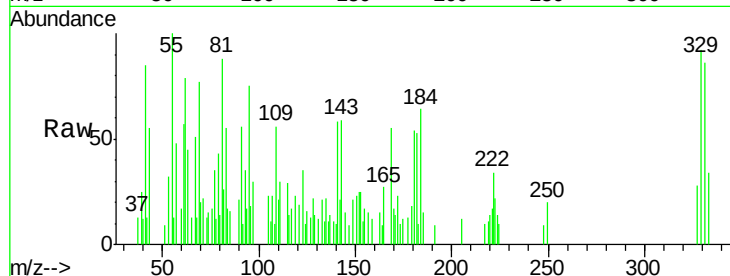




#41
 2,4,6-Tribromophenol
 Concen: 6.36 ng
 RT: 16.23 min Scan# 2279
 Delta R.T. -0.02 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

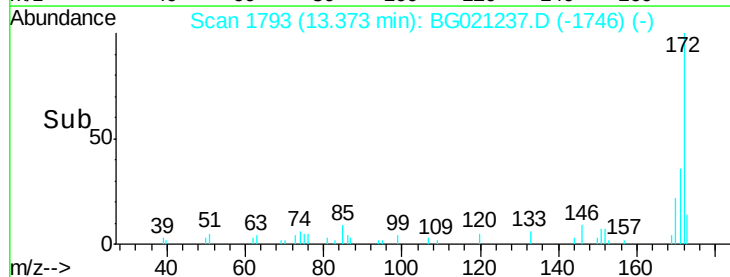
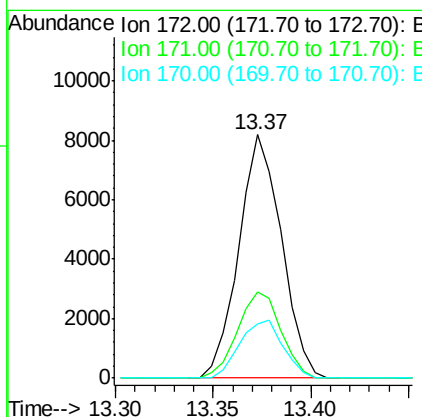
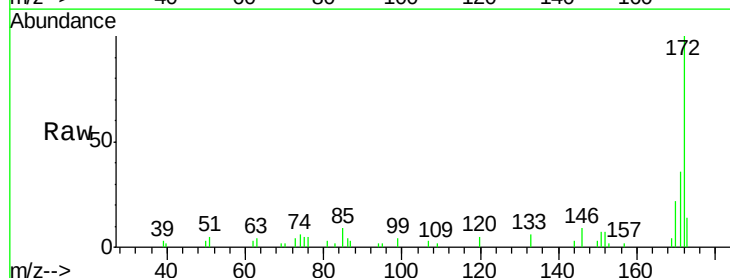
Instrument :
 BNA_G
 ClientSampled :

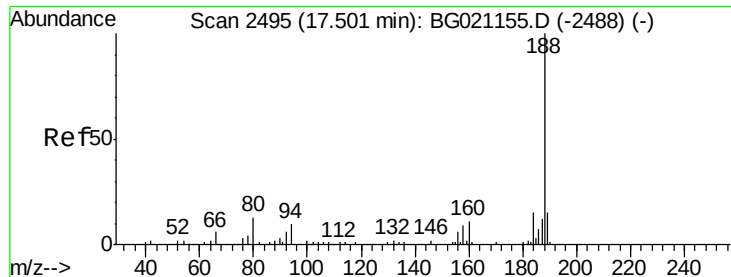
Tot Ion:330 Resp: 2213
 Ion Ratio Lower Upper
 330 100
 332 97.4 77.4 116.0
 141 77.1 35.3 52.9#



#44
 2-Fluorobiphenyl
 Concen: 5.25 ng
 RT: 13.37 min Scan# 1793
 Delta R.T. -0.02 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

Tgt Ion:172 Resp: 12377
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.4 44.0
 170 22.3 19.8 29.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.49 min Scan# 2493

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

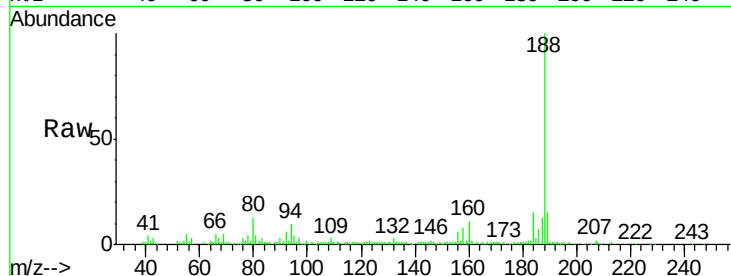
Tot Ion:188 Resp: 71720

Ion Ratio Lower Upper

188 100

94 10.5 8.2 12.4

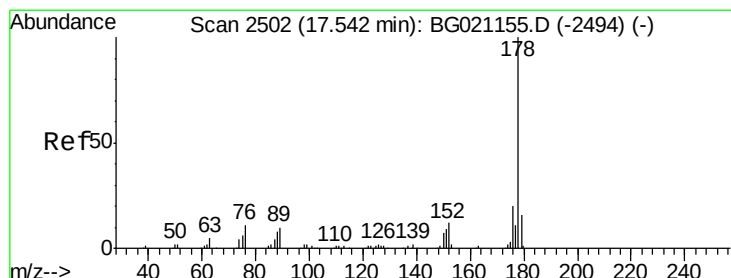
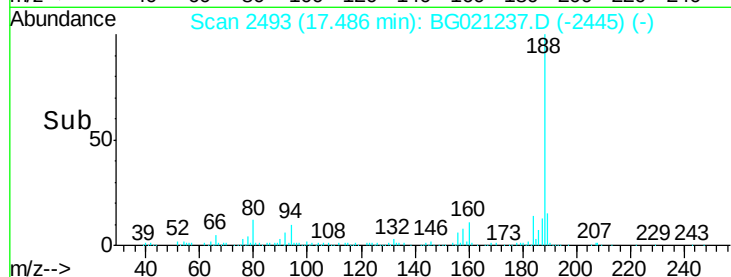
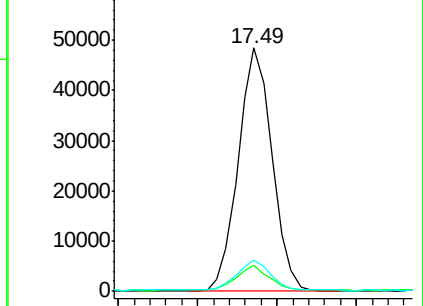
80 12.8 9.2 13.8



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: 25.42 ng

RT: 17.53 min Scan# 2500

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

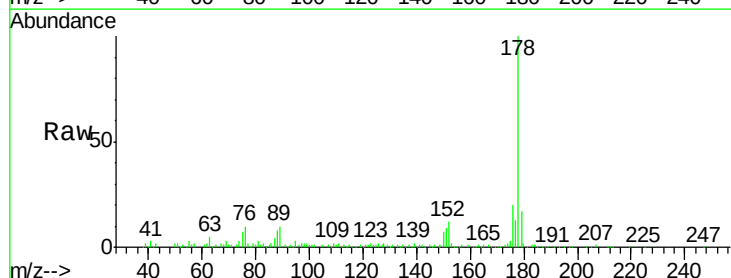
Tgt Ion:178 Resp: 98379

Ion Ratio Lower Upper

178 100

176 20.2 16.2 24.4

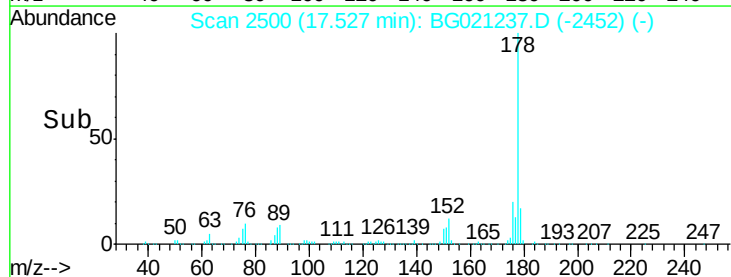
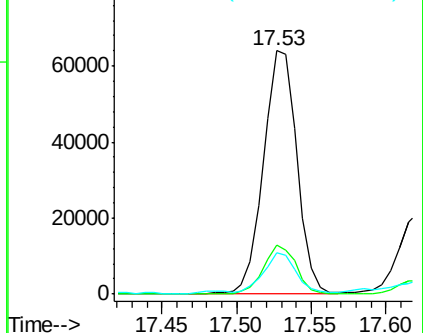
179 17.1 12.9 19.3

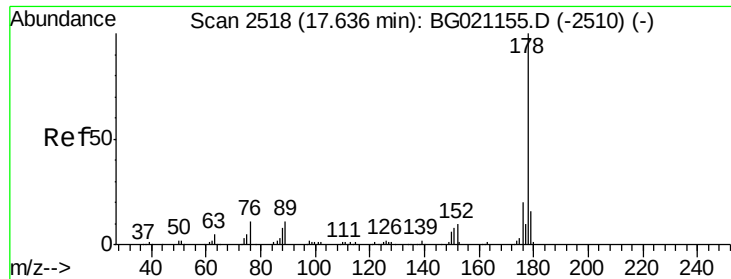


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

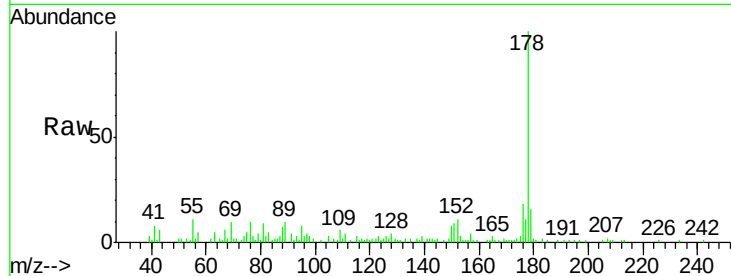




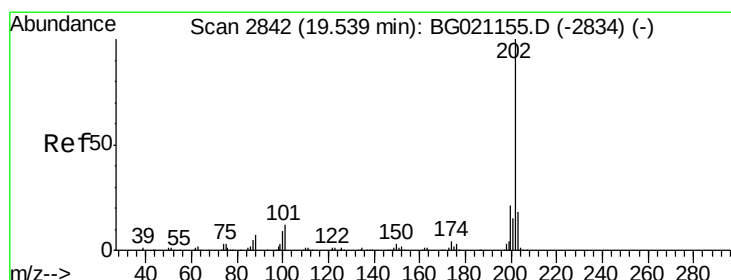
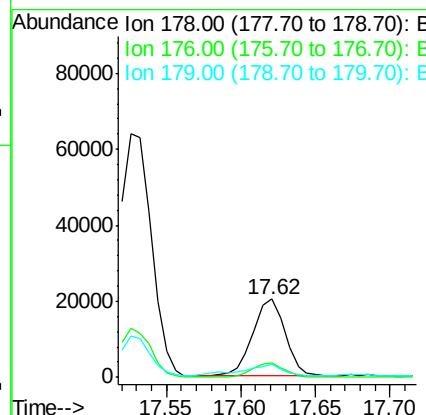
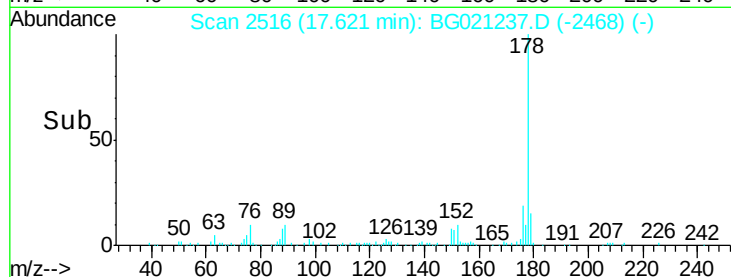
#71
 Anthracene
 Concen: 7.69 ng
 RT: 17.62 min Scan# 2516
 Delta R.T. -0.02 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:178 Resp: 30464
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.8 22.2
 179 16.2 12.6 19.0

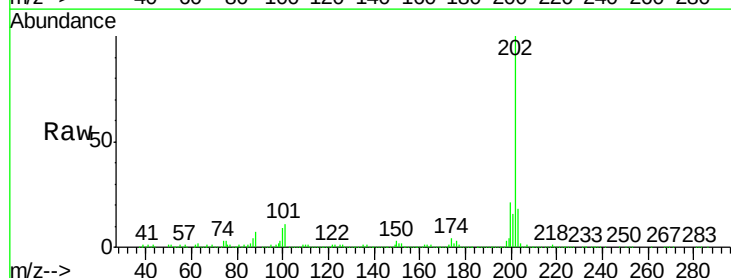


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

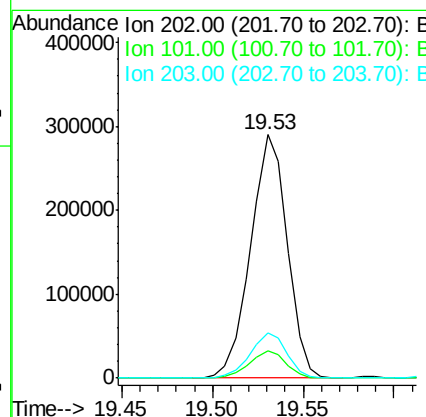
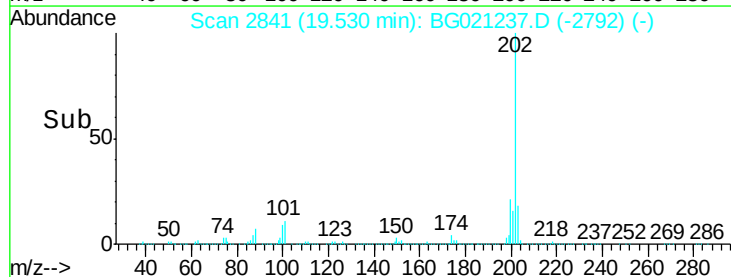


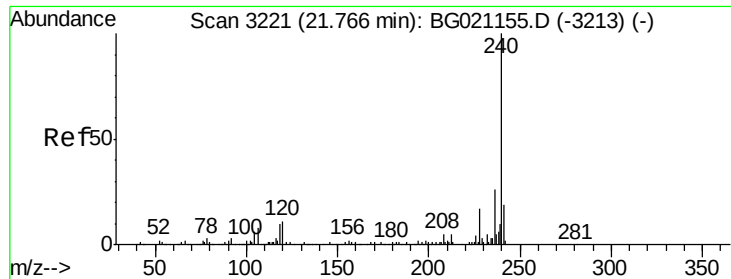
#74
 Fluoranthene
 Concen: 89.45 ng
 RT: 19.53 min Scan# 2841
 Delta R.T. -0.01 min
 Lab File: BG021237.D
 Acq: 3 Mar 2016 9:22

Tgt Ion:202 Resp: 406742
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 32.5
 203 18.4 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: 21.76 min Scan# 3220

Delta R.T. -0.01 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

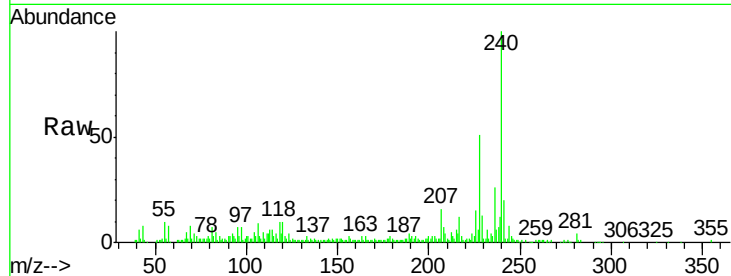
Tot Ion:240 Resp: 81597

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

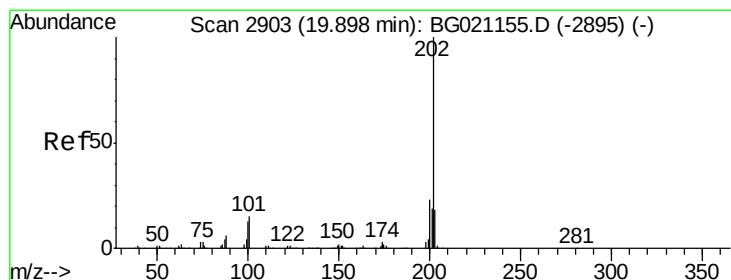
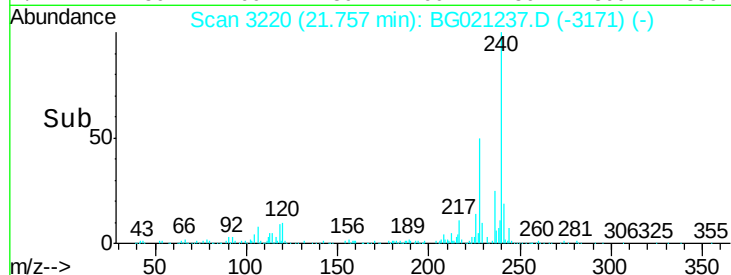
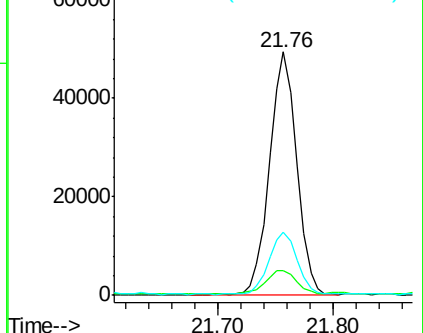
236 25.8 20.5 30.7



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: 83.34 ng

RT: 19.89 min Scan# 2903

Delta R.T. -0.00 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

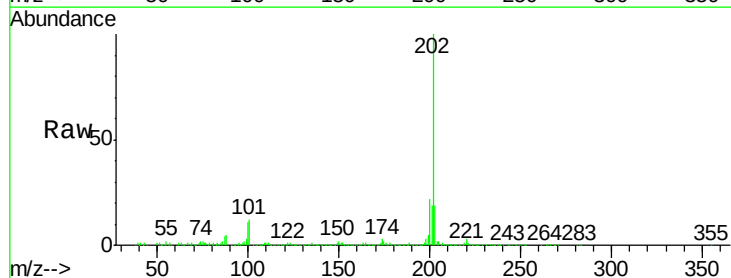
Tgt Ion:202 Resp: 405694

Ion Ratio Lower Upper

202 100

200 21.7 16.6 25.0

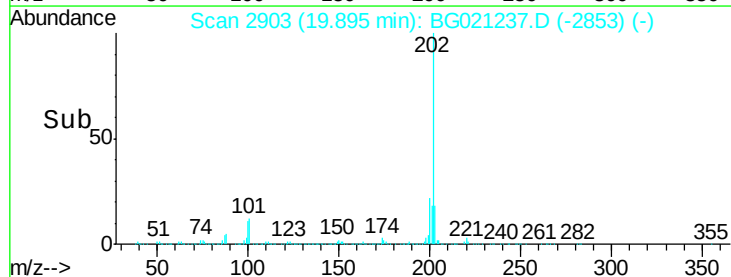
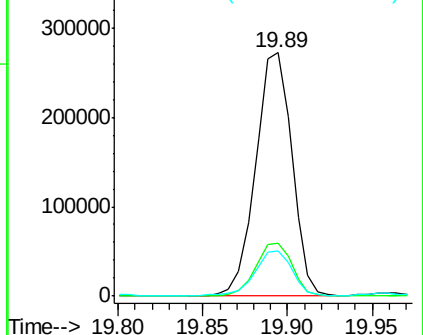
203 18.7 13.8 20.8

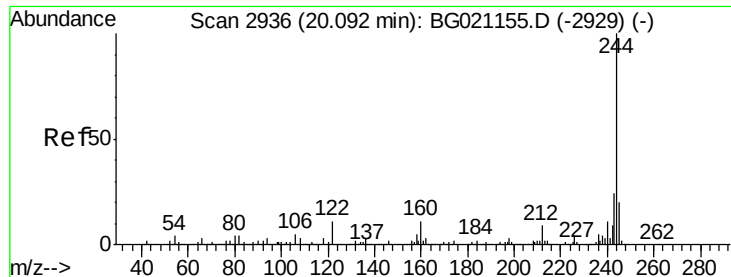


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.17 ng

RT: 20.08 min Scan# 2934

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

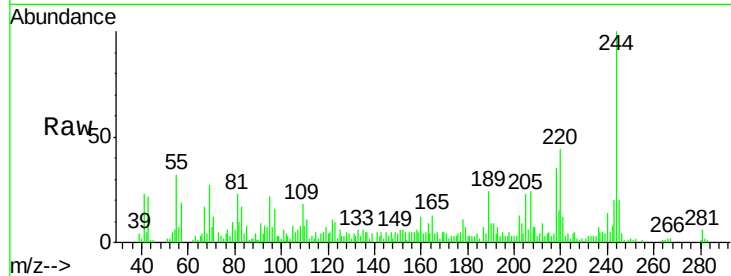
Tot Ion:244 Resp: 17412

Ion Ratio Lower Upper

244 100

212 8.9 5.8 8.6#

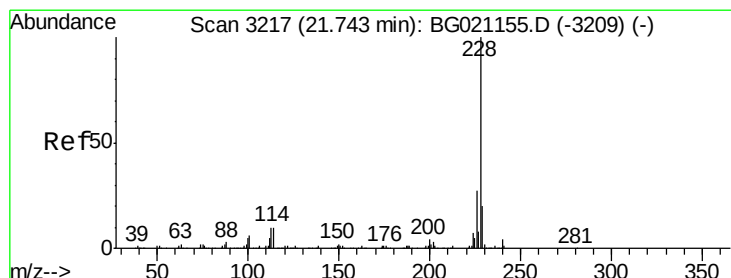
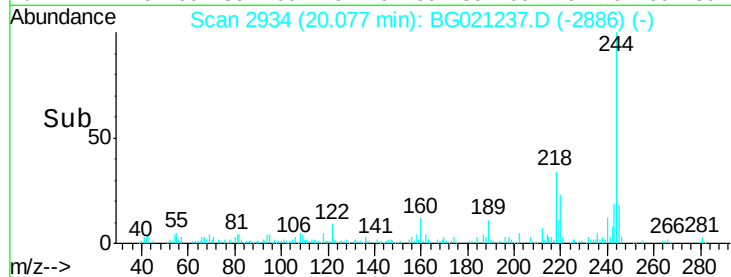
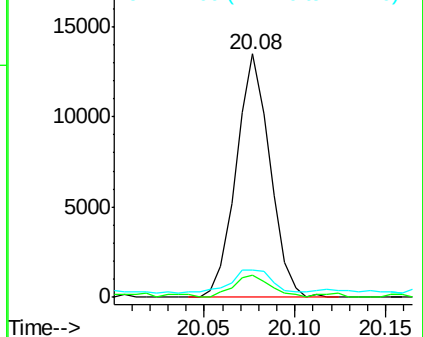
122 11.4 8.3 12.5



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: 39.87 ng

RT: 21.73 min Scan# 3216

Delta R.T. -0.01 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

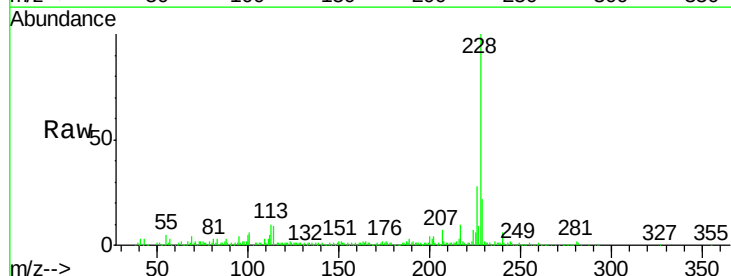
Tgt Ion:228 Resp: 192613

Ion Ratio Lower Upper

228 100

226 28.4 22.7 34.1

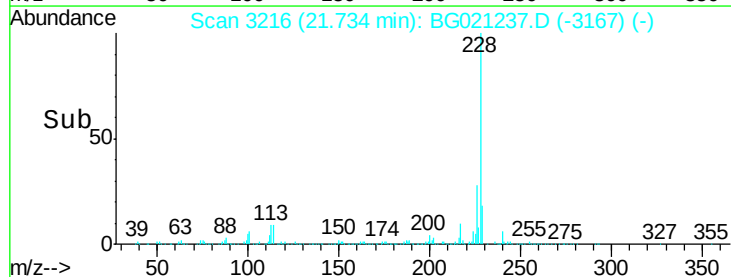
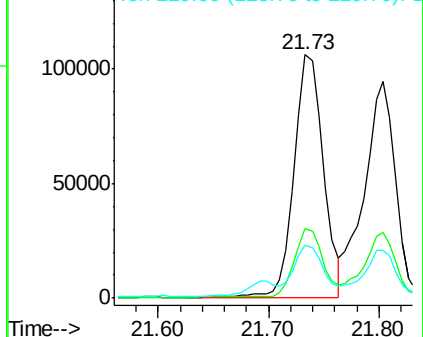
229 21.9 15.5 23.3

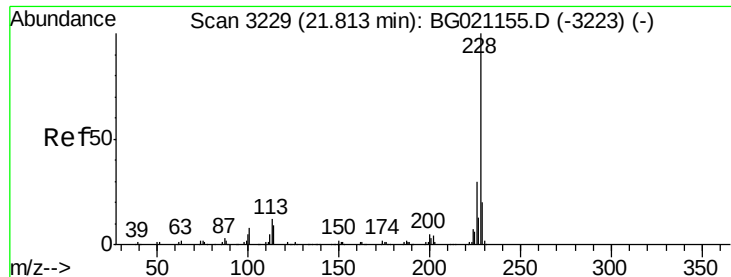


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 40.87 ng

RT: 21.80 min Scan# 3228

Delta R.T. -0.01 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

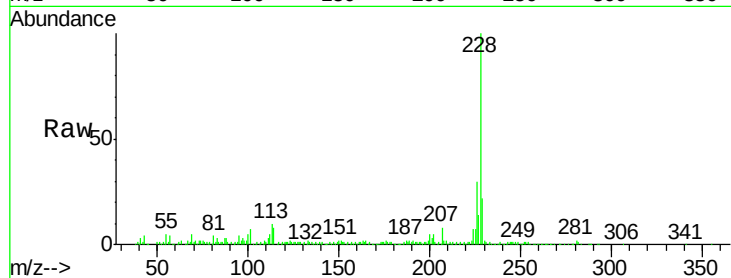
Tot Ion:228 Resp: 187093

Ion Ratio Lower Upper

228 100

226 30.3 23.7 35.5

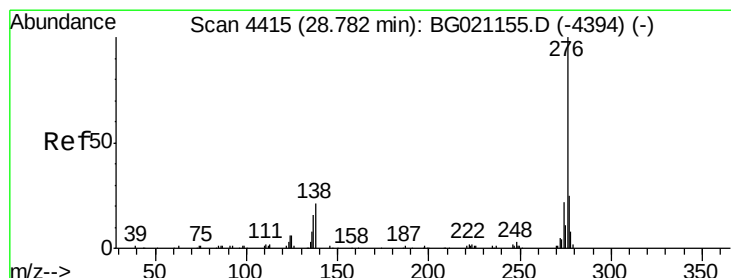
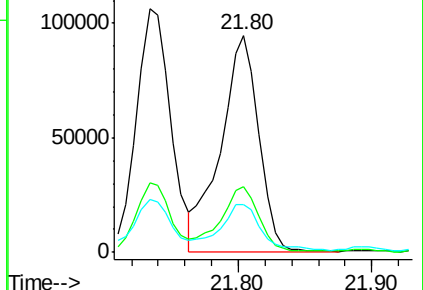
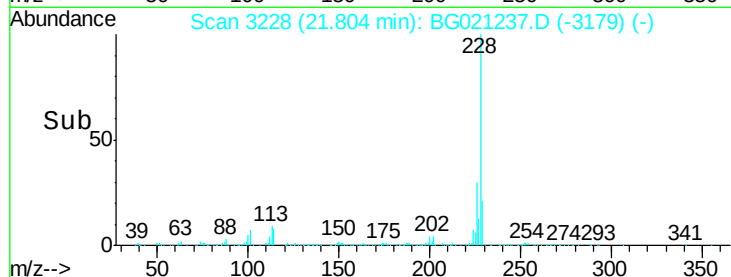
229 22.2 16.7 25.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.45 ng

RT: 28.76 min Scan# 4412

Delta R.T. -0.02 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

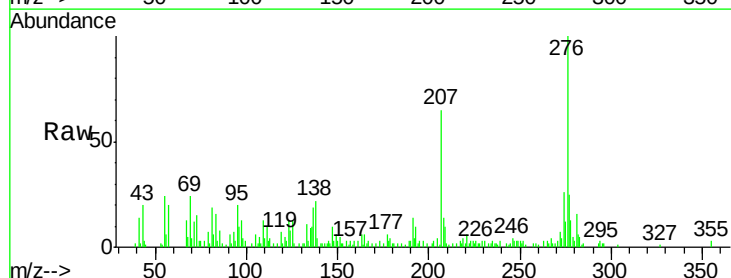
Tgt Ion:276 Resp: 60091

Ion Ratio Lower Upper

276 100

138 19.1 16.0 24.0

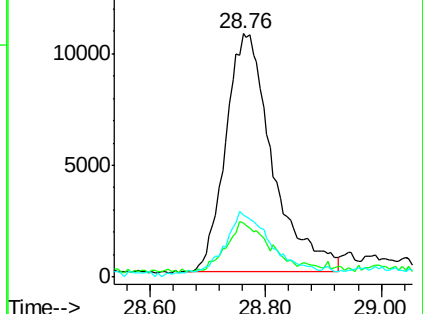
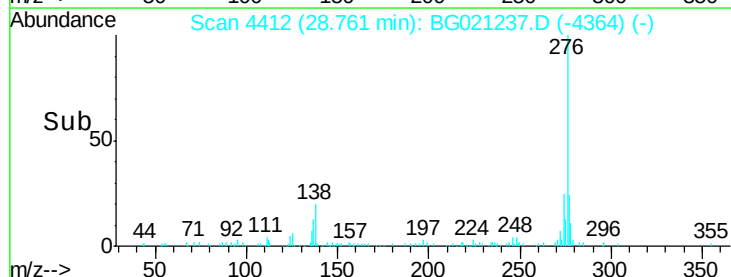
277 25.7 16.0 24.0#

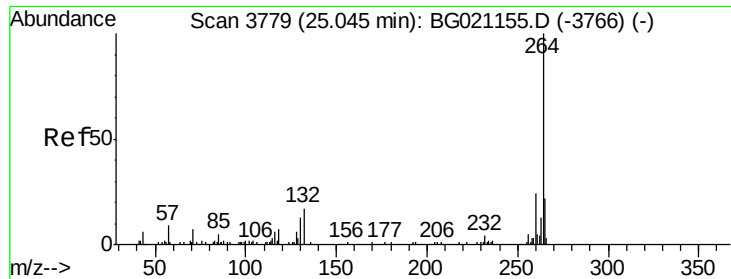


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



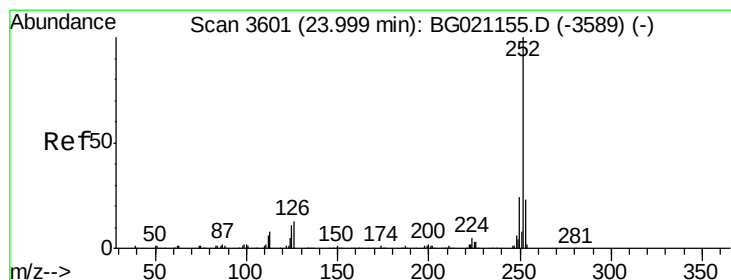
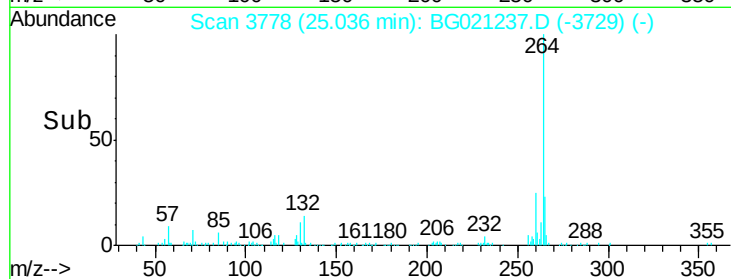
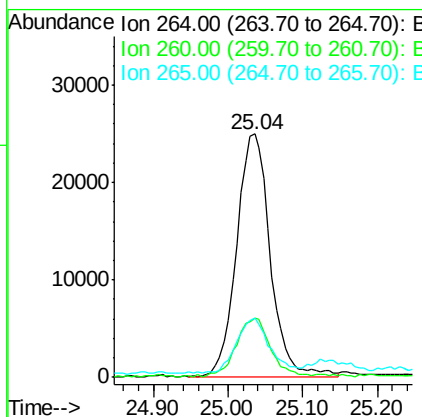
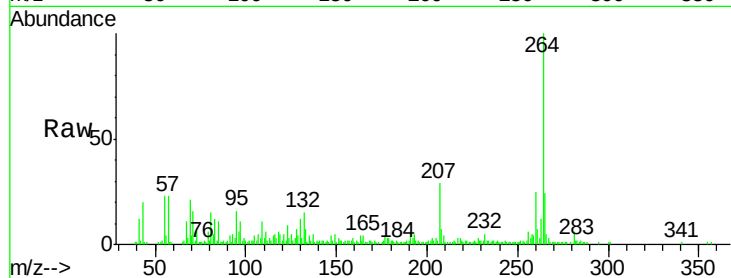


#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.04 min Scan# 3778
Delta R.T. -0.01 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

Instrument :
BNA_G
ClientSampleId :

Tot Ion:264 Resp: 78654

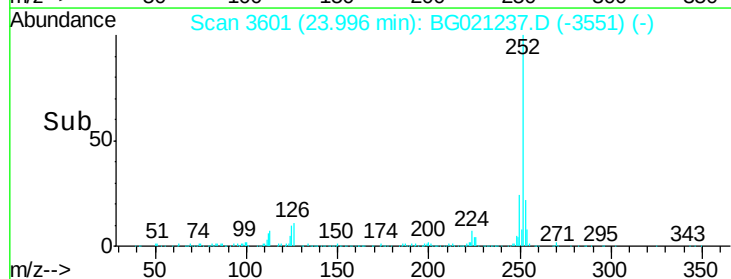
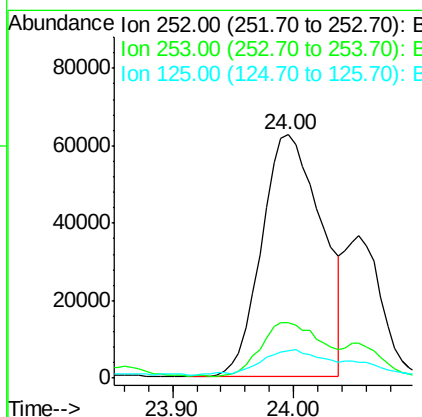
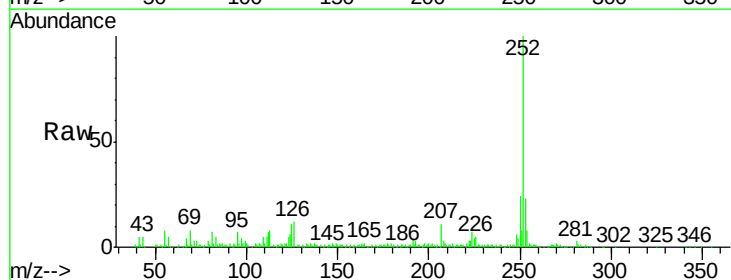
Ion	Ratio	Lower	Upper
264	100		
260	24.5	18.5	27.7
265	24.2	18.6	28.0

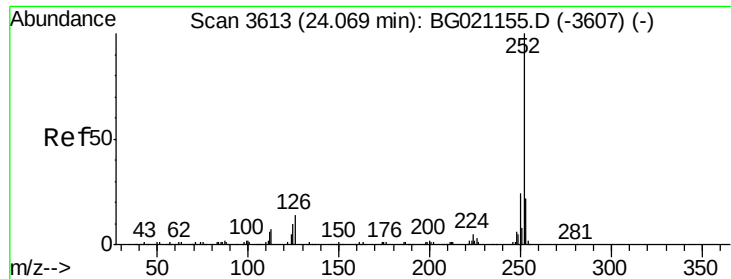


#87
Benzo(b)fluoranthene
Concen: 43.54 ng
RT: 24.00 min Scan# 3601
Delta R.T. -0.00 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

Tgt Ion:252 Resp: 215392

Ion	Ratio	Lower	Upper
252	100		
253	22.7	16.8	25.2
125	11.0	8.2	12.2

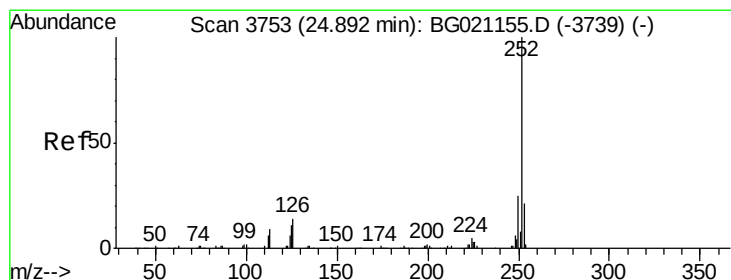
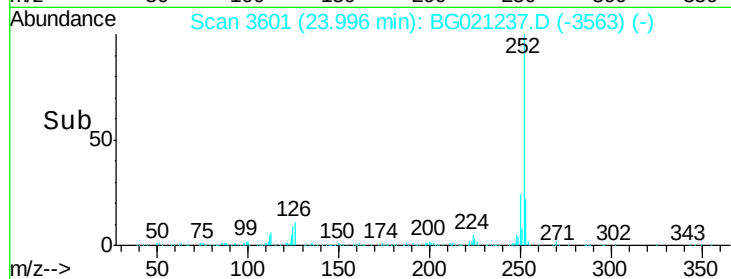
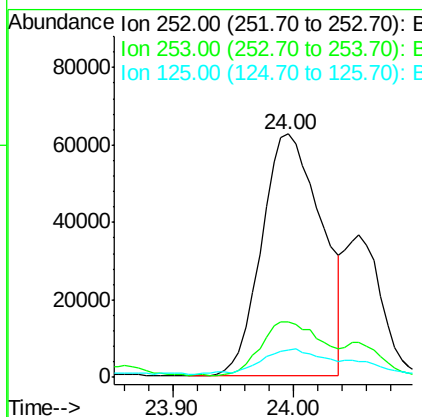
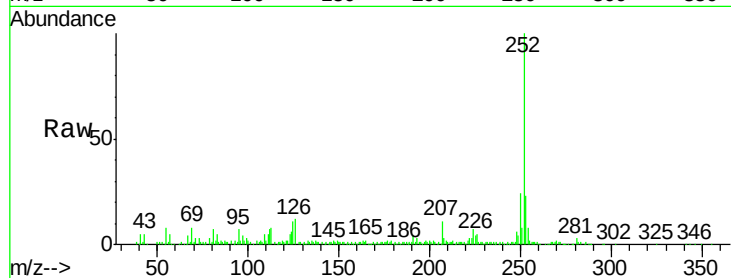




#88
Benzo(k)fluoranthene
Concen: 43.47 ng
RT: 24.00 min Scan# 3601
Delta R.T. -0.07 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

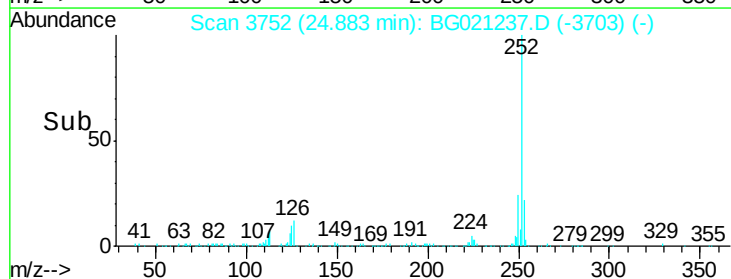
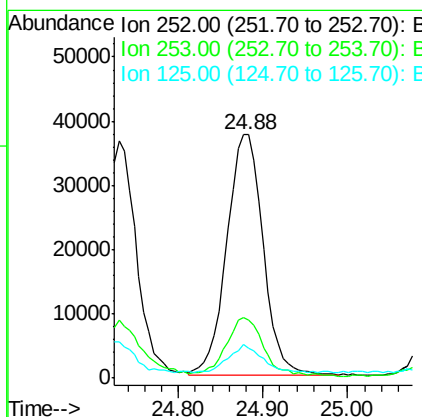
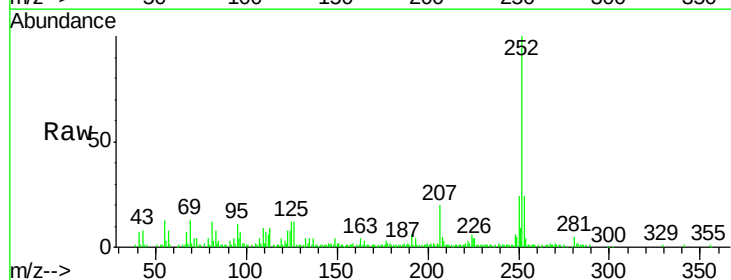
Instrument :
BNA_G
ClientSampleId :

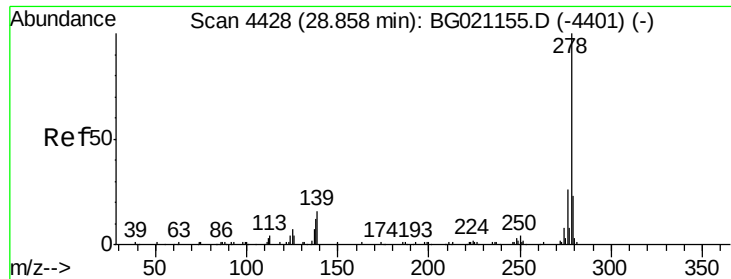
Tot Ion:252 Resp: 215392
Ion Ratio Lower Upper
252 100
253 22.7 16.4 24.6
125 11.0 8.2 12.2



#89
Benzo(a)pyrene
Concen: 23.20 ng
RT: 24.88 min Scan# 3752
Delta R.T. -0.01 min
Lab File: BG021237.D
Acq: 3 Mar 2016 9:22

Tgt Ion:252 Resp: 110951
Ion Ratio Lower Upper
252 100
253 23.9 15.8 23.8#
125 12.1 8.4 12.6





#90

Dibenzo(a,h)anthracene

Concen: 3.86 ng

RT: 28.81 min Scan# 4420

Delta R.T. -0.05 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

Instrument :

BNA_G

ClientSampleId :

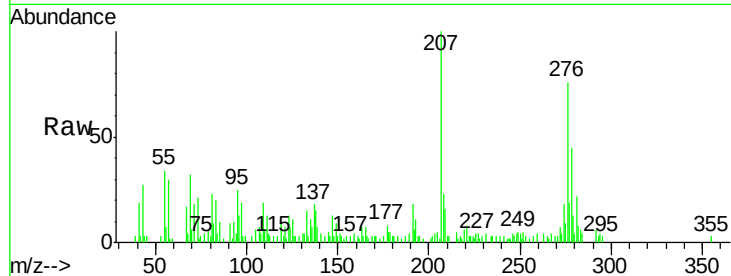
Tot Ion:278 Resp: 18269

Ion Ratio Lower Upper

278 100

139 15.9 10.6 15.8#

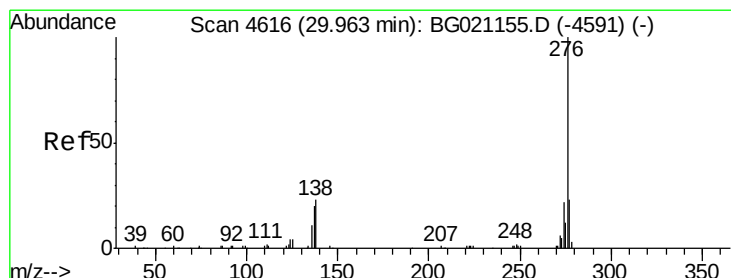
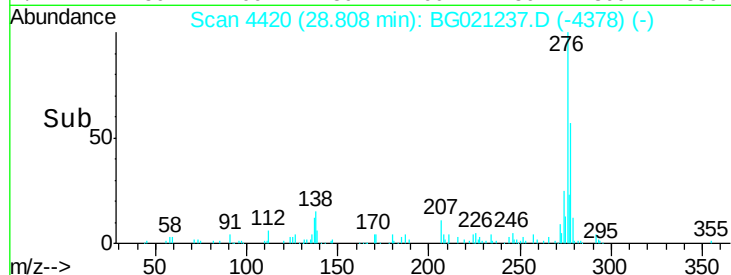
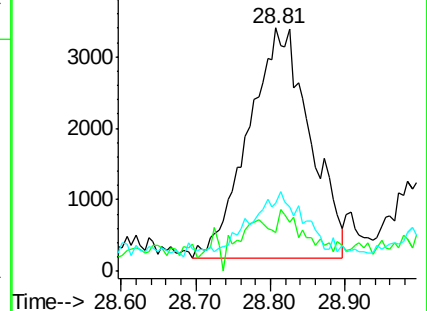
279 28.3 19.7 29.5



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: 10.70 ng

RT: 29.93 min Scan# 4611

Delta R.T. -0.03 min

Lab File: BG021237.D

Acq: 3 Mar 2016 9:22

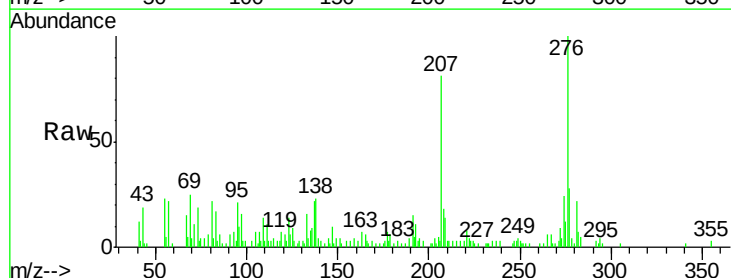
Tgt Ion:276 Resp: 48919

Ion Ratio Lower Upper

276 100

277 27.6 16.6 25.0#

138 22.9 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

