

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022416\
 Data File : BG021071.D
 Acq On : 25 Feb 2016 3:50
 Operator : UM/SJ
 Sample : H1557-02 10X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Feb 25 05:47:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 24 00:35:06 2016
 Response via : Initial Calibration

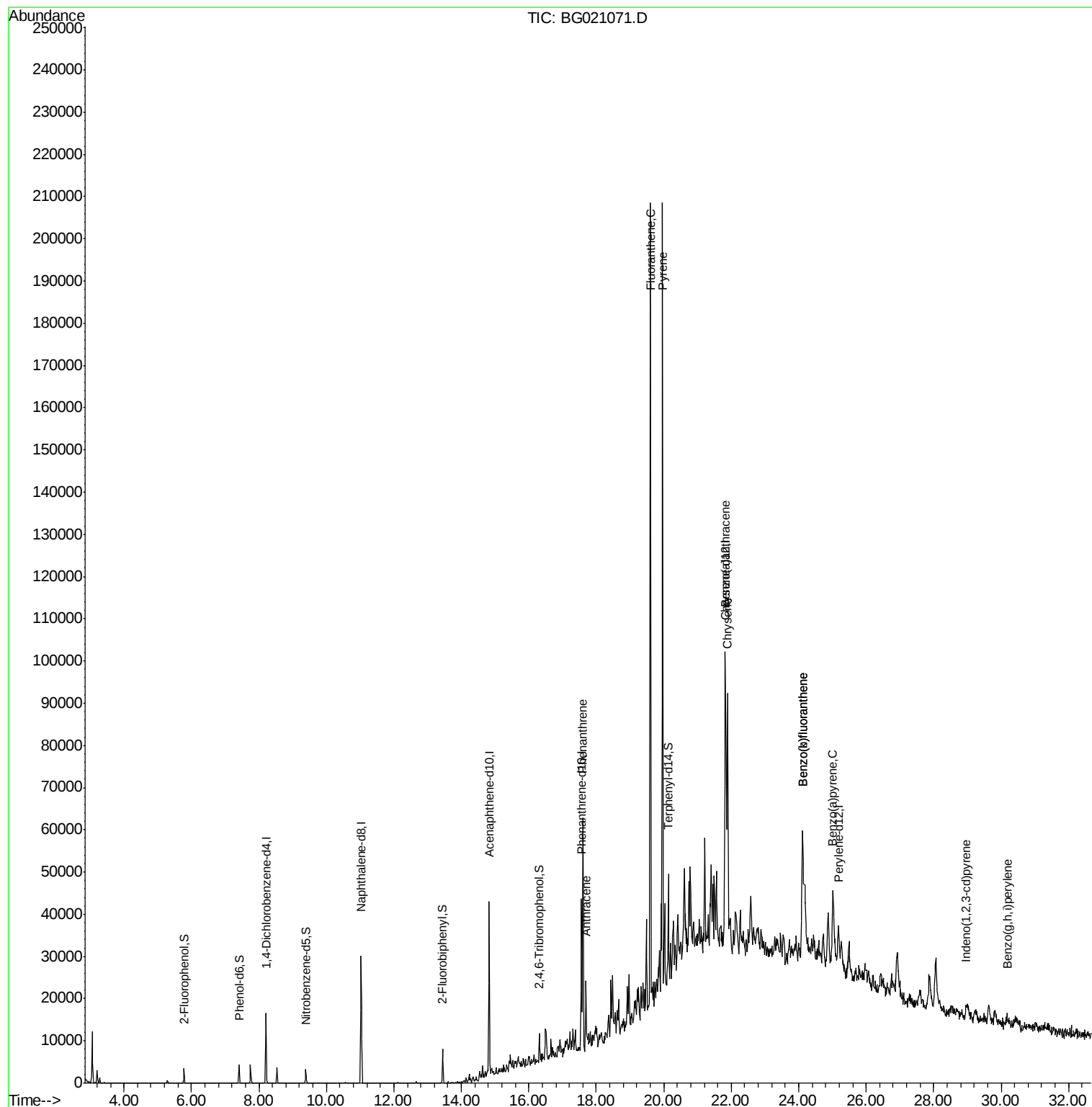
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.21	152	5200	20.00	ng	0.00
21) Naphthalene-d8	11.03	136	27046	20.00	ng	0.00
38) Acenaphthene-d10	14.82	164	13136	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	20422	20.00	ng	0.00
75) Chrysene-d12	21.84	240	16780	20.00	ng	0.00
86) Perylene-d12	25.18	264	10627	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	2144	7.23	ng	0.00
7) Phenol-d6	7.41	99	3581	7.84	ng	0.00
23) Nitrobenzene-d5	9.39	82	2474	5.37	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	1126	7.16	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	5631	5.97	ng	0.00
78) Terphenyl-d14	20.14	244	4130	3.19	ng	0.00
Target Compounds						Qvalue
70) Phenanthrene	17.60	178	31564	27.32	ng	97
71) Anthracene	17.70	178	10142	8.81	ng	98
74) Fluoranthene	19.61	202	107937	92.91	ng	97
77) Pyrene	19.96	202	105579	55.07	ng	99
80) Benzo(a)anthracene	21.82	228	40514	40.26	ng	97
82) Chrysene	21.89	228	42699	45.48	ng	96
85) Indeno(1,2,3-cd)pyrene	28.98	276	3034	3.59	ng	# 100
87) Benzo(b)fluoranthene	24.11	252	50792	72.49	ng	# 94
88) Benzo(k)fluoranthene	24.11	252	50792	76.84	ng	# 93
89) Benzo(a)pyrene	25.02	252	14411	22.96	ng	# 86
91) Benzo(g,h,i)perylene	30.17	276	5040	8.93	ng	# 83

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

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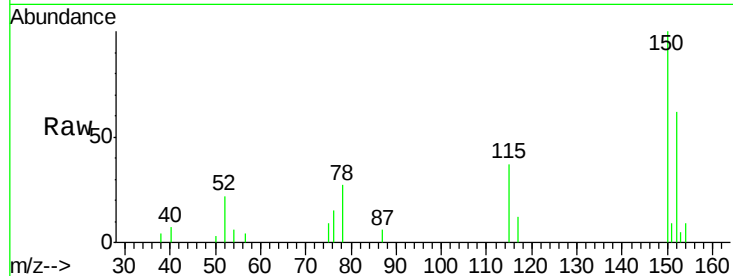


#1

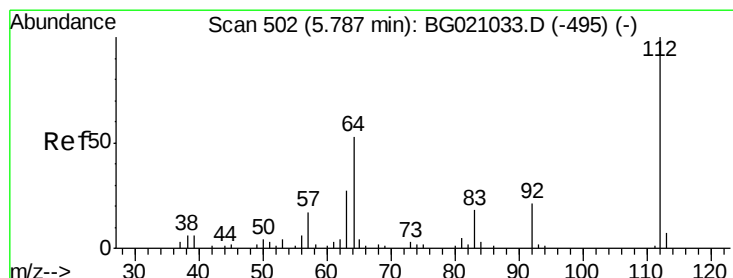
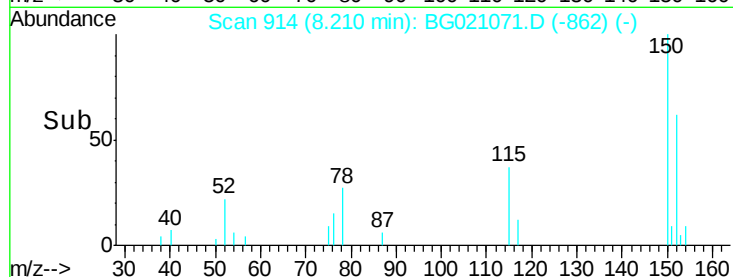
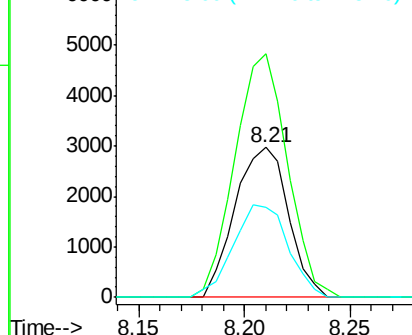
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.21 min Scan# 914
Delta R.T. 0.00 min
Lab File: BG021071.D
Acq: 25 Feb 2016 3:50

Instrument :
BNA_G
ClientSampleId :

Tot Ion:152 Resp: 5200
Ion Ratio Lower Upper
152 100
150 162.3 123.4 185.2
115 60.2 43.3 64.9



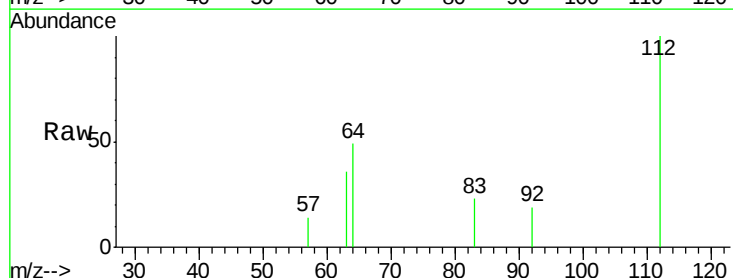
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



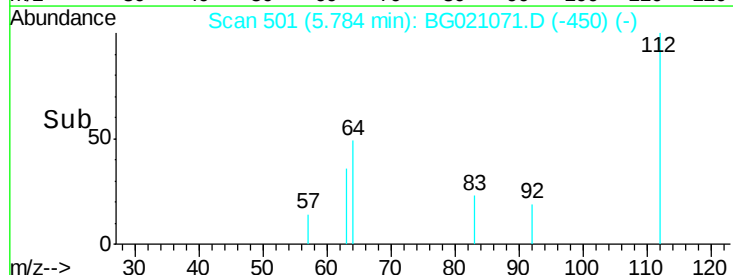
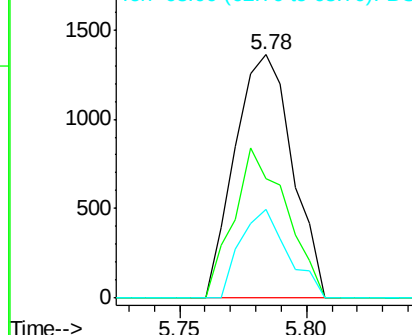
#5

2-Fluorophenol
Concen: 7.23 ng
RT: 5.78 min Scan# 501
Delta R.T. -0.00 min
Lab File: BG021071.D
Acq: 25 Feb 2016 3:50

Tgt Ion:112 Resp: 2144
Ion Ratio Lower Upper
112 100
64 48.8 42.6 63.8
63 36.4 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: 7.84 ng

RT: 7.41 min Scan# 778

Delta R.T. -0.00 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampled :

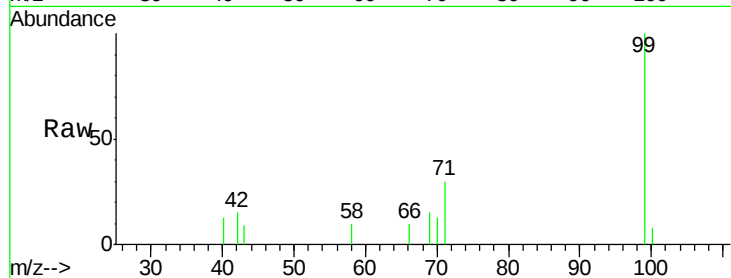
Tot Ion: 99 Resp: 3581

Ion Ratio Lower Upper

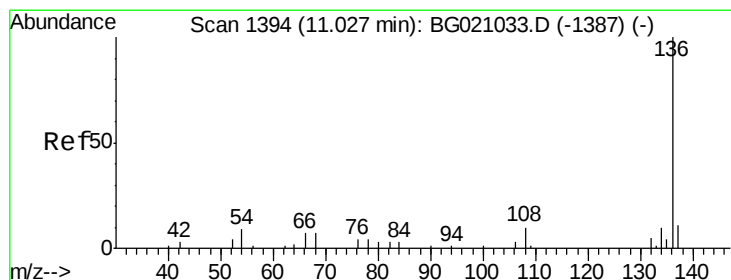
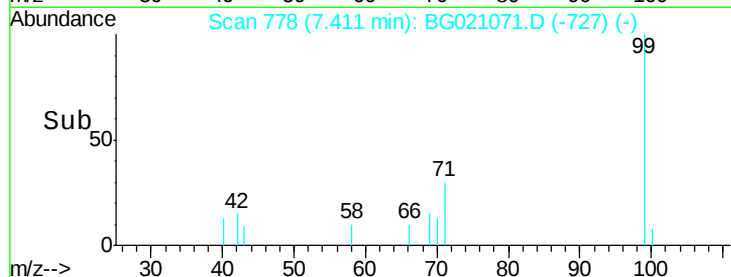
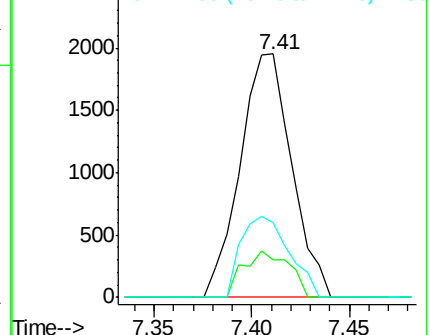
99 100

42 15.2 13.2 19.8

71 30.5 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: 11.03 min Scan# 1394

Delta R.T. 0.00 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Tgt Ion: 136 Resp: 27046

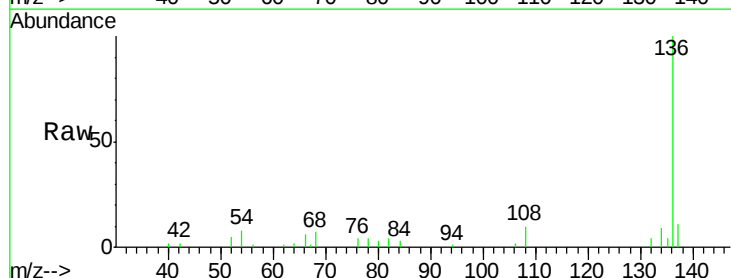
Ion Ratio Lower Upper

136 100

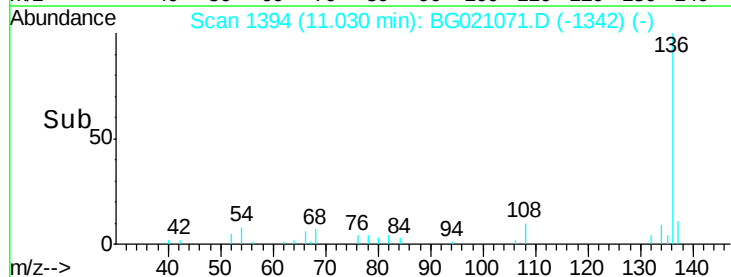
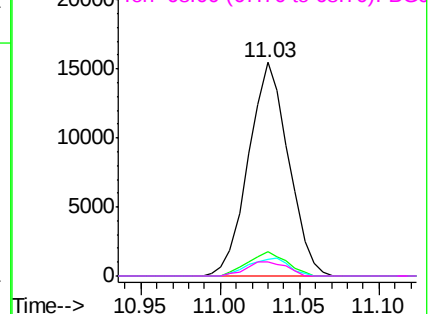
137 11.2 8.8 13.2

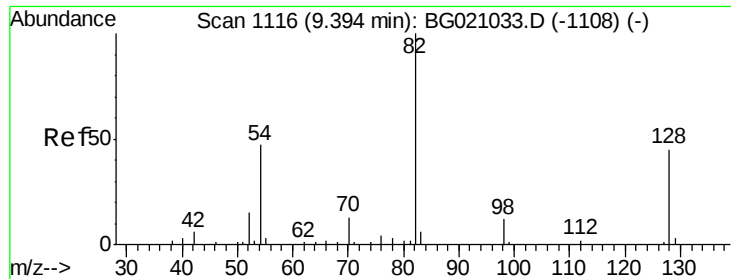
54 8.1 6.9 10.3

68 6.7 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

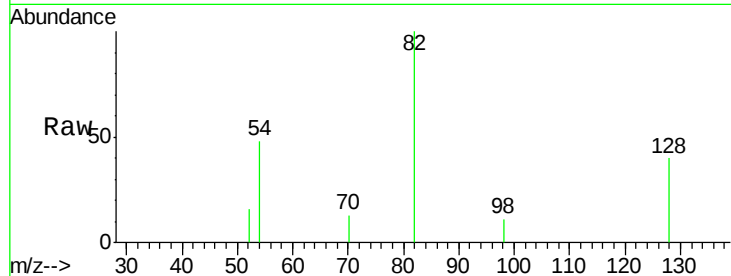




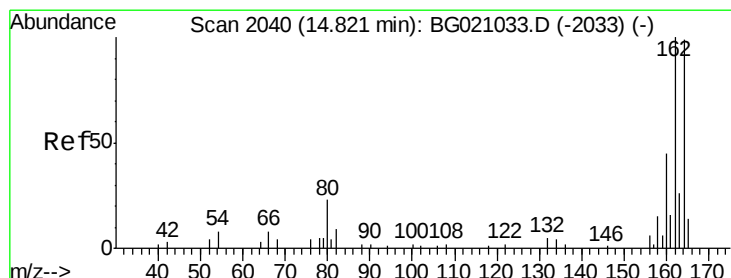
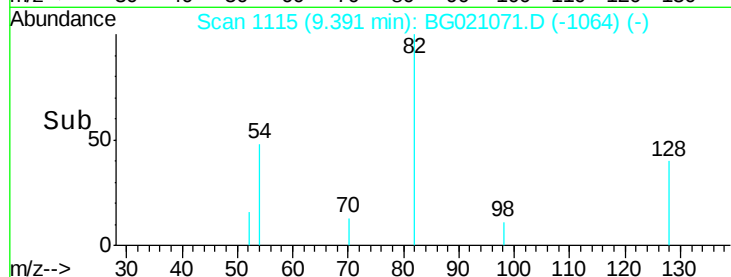
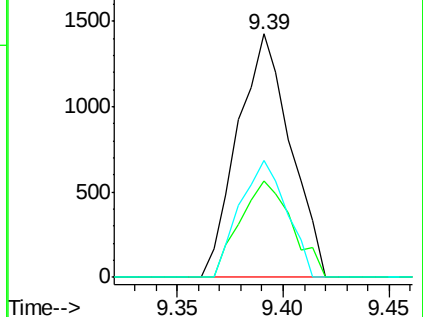
#23
 Nitrobenzene-d5
 Concen: 5.37 ng
 RT: 9.39 min Scan# 1115
 Delta R.T. -0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion: 82 Resp: 2474
 Ion Ratio Lower Upper
 82 100
 128 39.7 36.3 54.5
 54 48.1 37.6 56.4

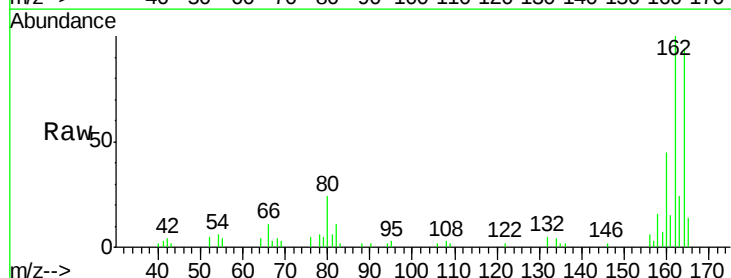


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

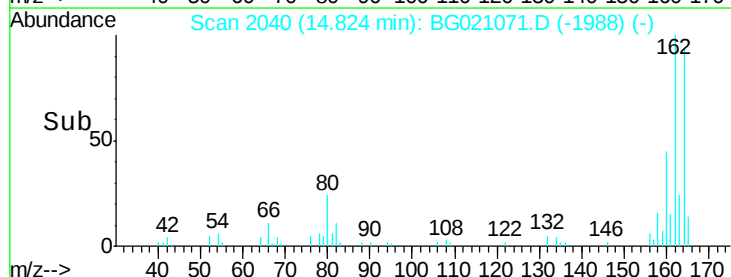
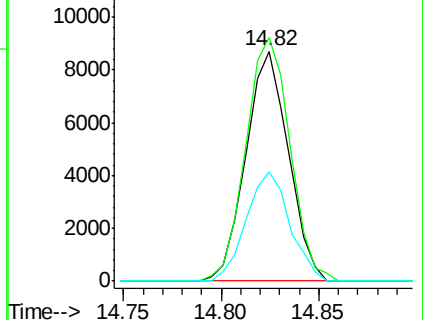


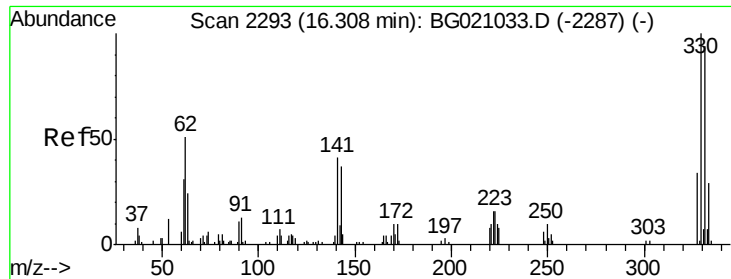
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.82 min Scan# 2040
 Delta R.T. 0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Tgt Ion: 164 Resp: 13136
 Ion Ratio Lower Upper
 164 100
 162 106.0 80.6 120.8
 160 47.3 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

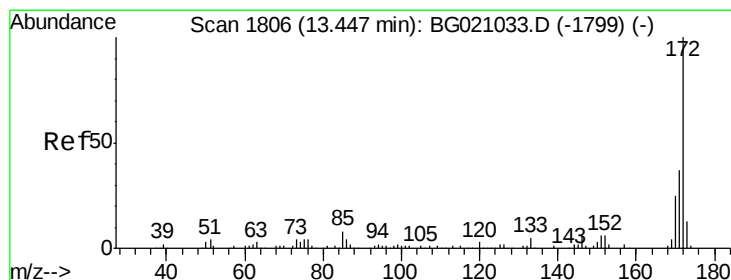
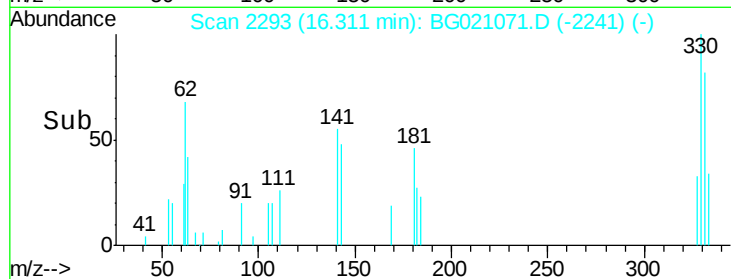
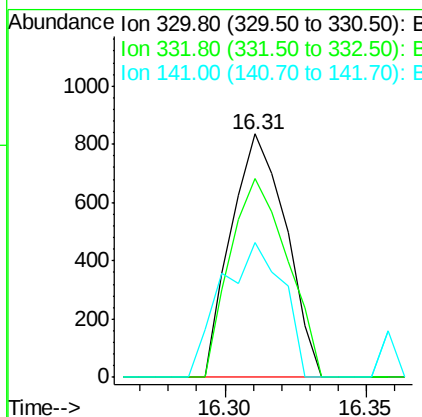
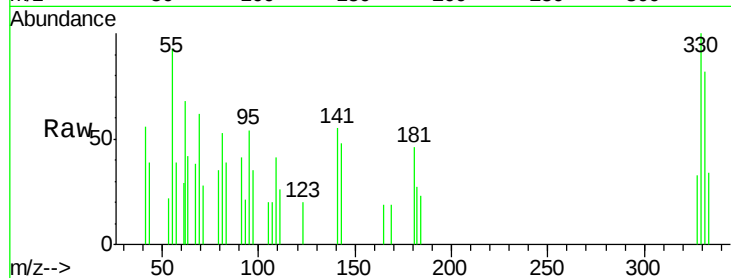




#41
 2,4,6-Tribromophenol
 Concen: 7.16 ng
 RT: 16.31 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

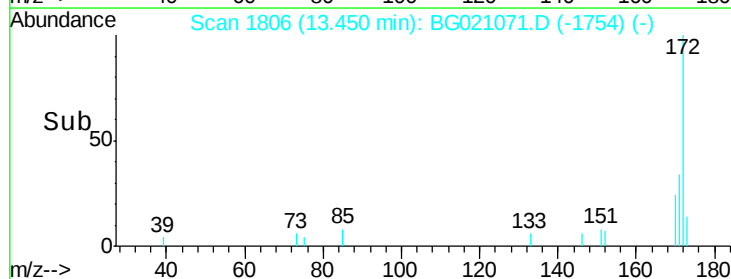
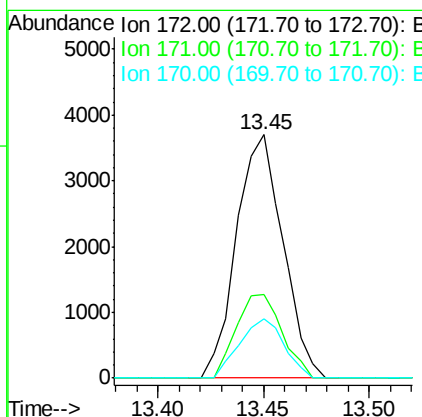
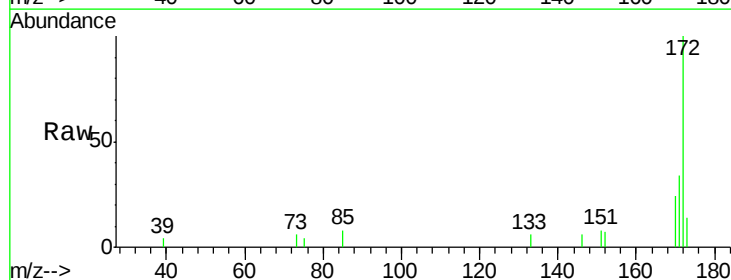
Instrument :
 BNA_G
 ClientSampled :

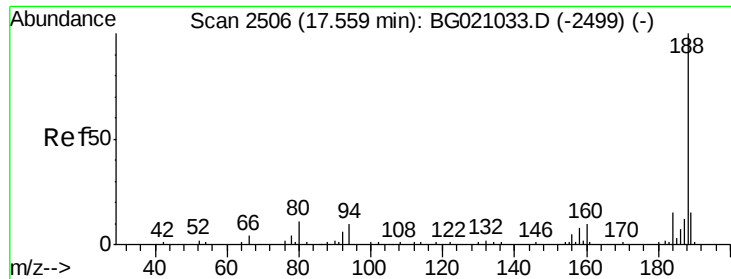
Tot Ion:330 Resp: 1126
 Ion Ratio Lower Upper
 330 100
 332 85.4 77.4 116.0
 141 62.0 35.3 52.9#



#44
 2-Fluorobiphenyl
 Concen: 5.97 ng
 RT: 13.45 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Tgt Ion:172 Resp: 5631
 Ion Ratio Lower Upper
 172 100
 171 34.3 29.4 44.0
 170 24.3 19.8 29.8

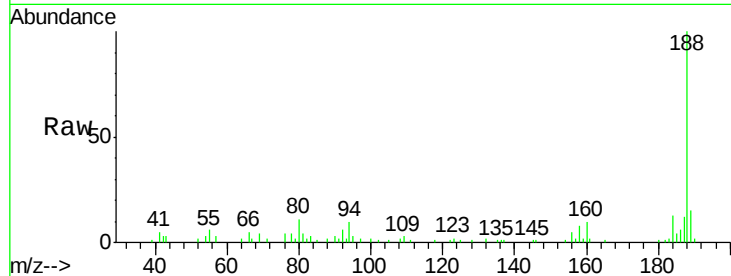




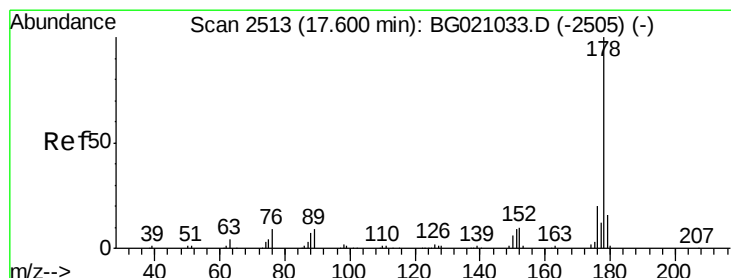
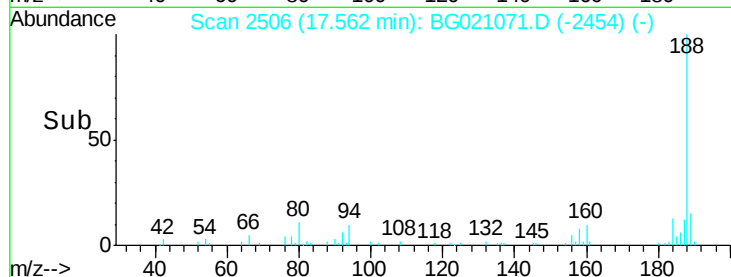
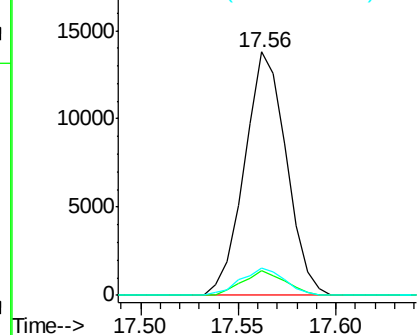
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.56 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:188 Resp: 20422
 Ion Ratio Lower Upper
 188 100
 94 10.3 8.2 12.4
 80 11.2 9.2 13.8

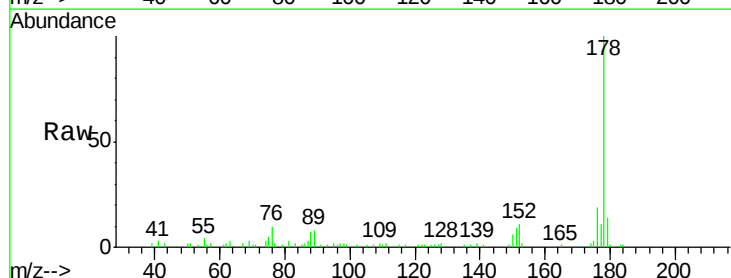


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BGC
 Ion 80.00 (79.70 to 80.70): BGC

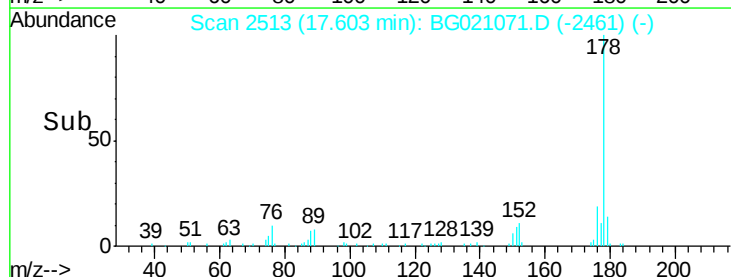
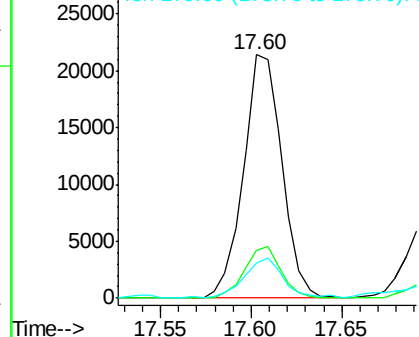


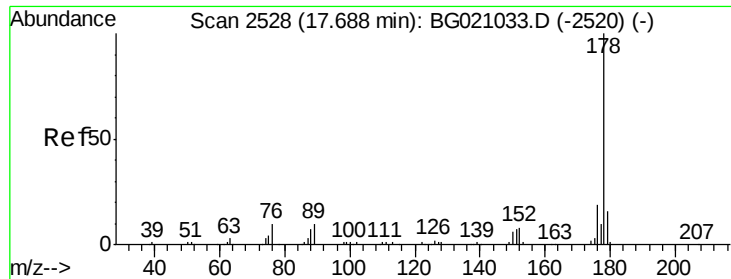
#70
 Phenanthrene
 Concen: 27.32 ng
 RT: 17.60 min Scan# 2513
 Delta R.T. 0.00 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Tgt Ion:178 Resp: 31564
 Ion Ratio Lower Upper
 178 100
 176 19.5 16.2 24.4
 179 14.1 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

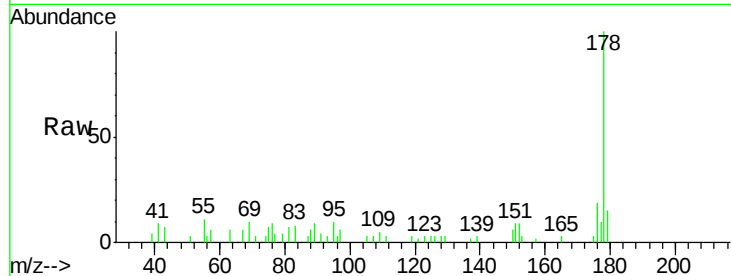




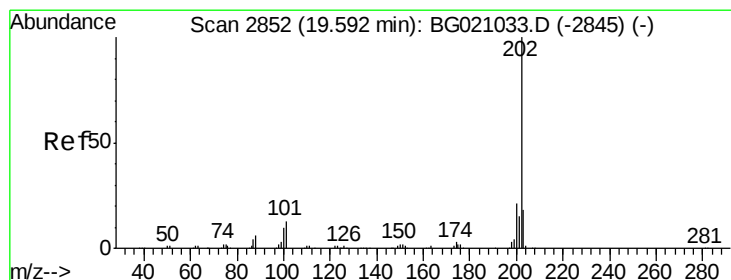
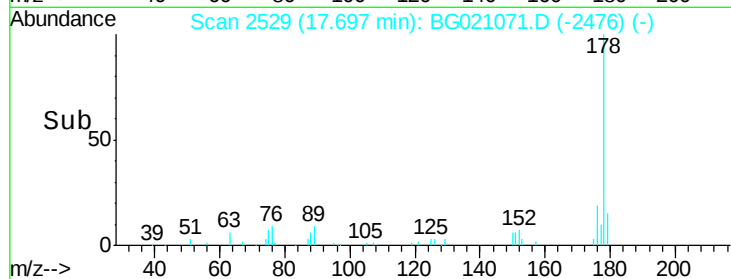
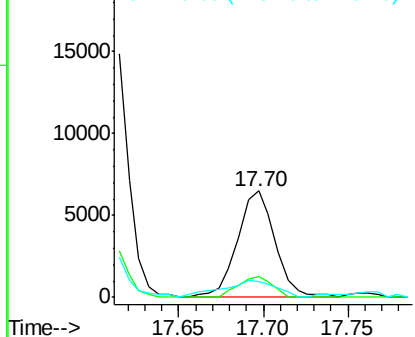
#71
 Anthracene
 Concen: 8.81 ng
 RT: 17.70 min Scan# 2529
 Delta R.T. 0.01 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	19.2	14.8	22.2	
179	15.1	12.6	19.0	

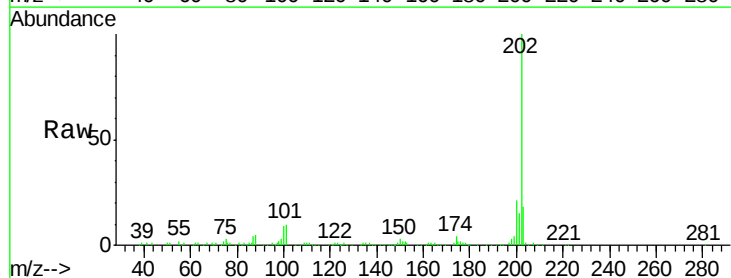


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

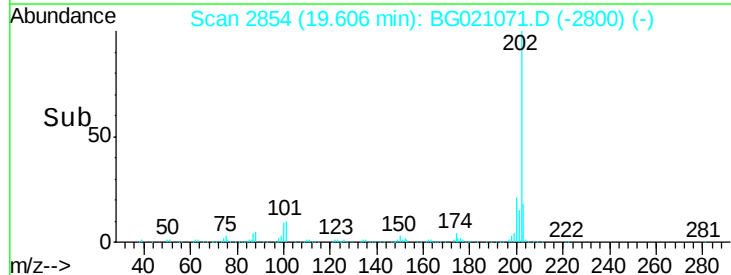
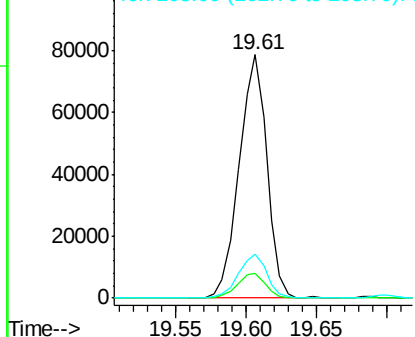


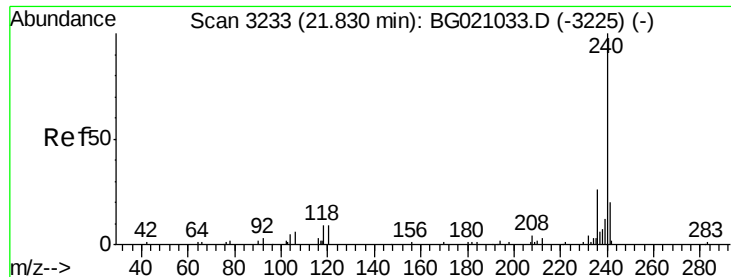
#74
 Fluoranthene
 Concen: 92.91 ng
 RT: 19.61 min Scan# 2854
 Delta R.T. 0.01 min
 Lab File: BG021071.D
 Acq: 25 Feb 2016 3:50

Tgt Ion	Ion	Ratio	Lower	Upper
202	100			
101	10.2	0.0	32.5	
203	18.0	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: 21.84 min Scan# 3234

Delta R.T. 0.01 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampleId :

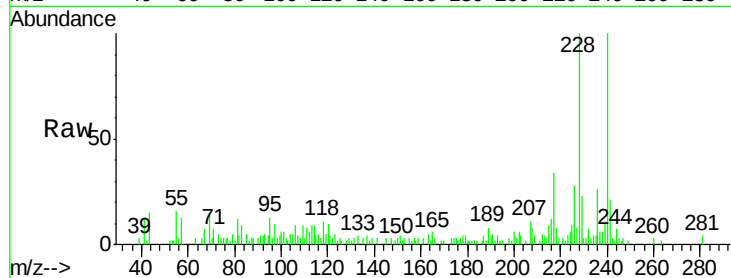
Tot Ion:240 Resp: 16780

Ion Ratio Lower Upper

240 100

120 10.4 7.5 11.3

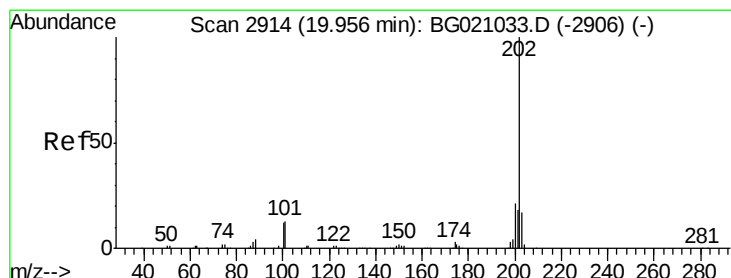
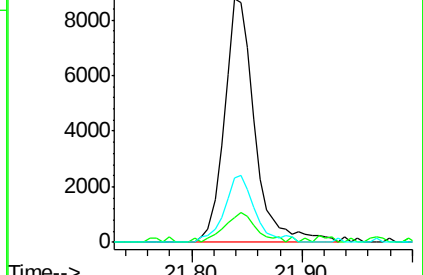
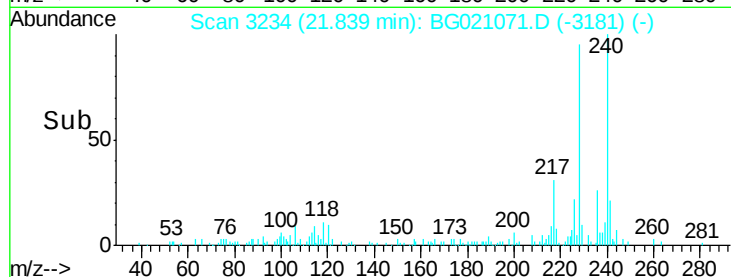
236 26.2 20.5 30.7



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: 55.07 ng

RT: 19.96 min Scan# 2915

Delta R.T. 0.01 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

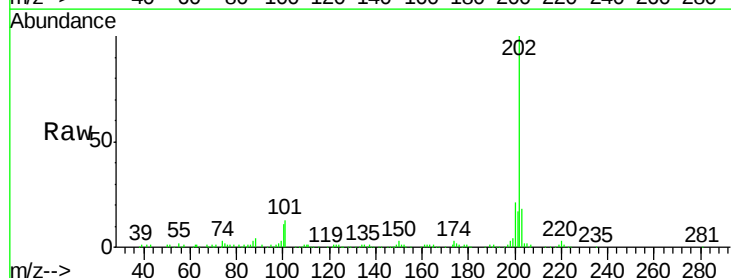
Tgt Ion:202 Resp: 105579

Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

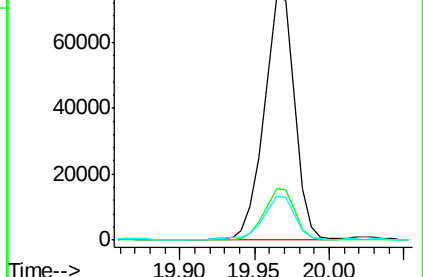
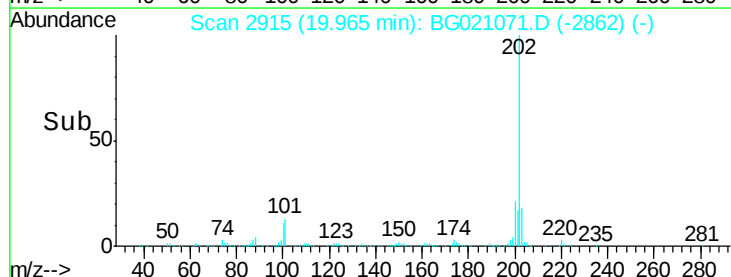
203 18.2 13.8 20.8

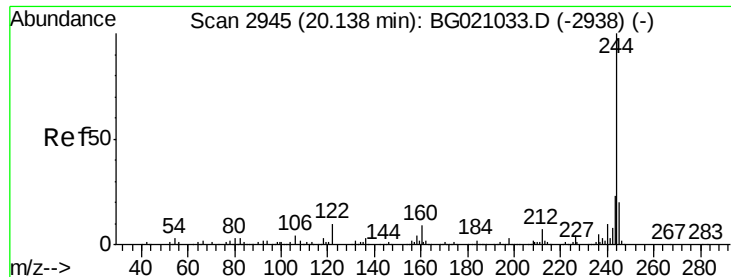


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.19 ng

RT: 20.14 min Scan# 2945

Delta R.T. 0.00 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampleId :

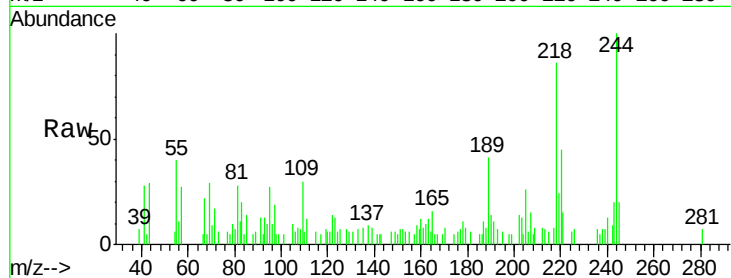
Tot Ion:244 Resp: 4130

Ion Ratio Lower Upper

244 100

212 7.6 5.8 8.6

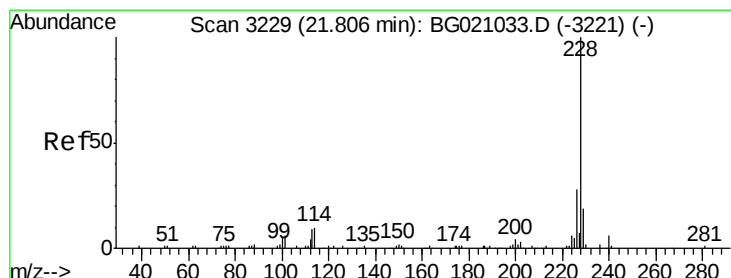
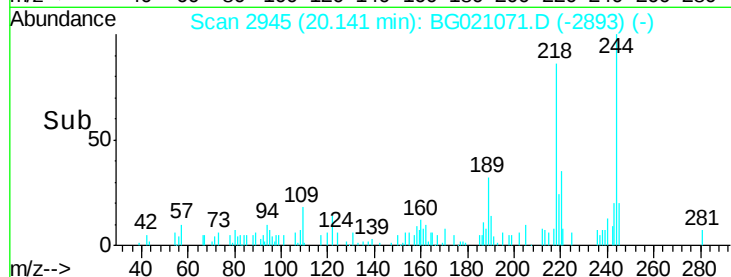
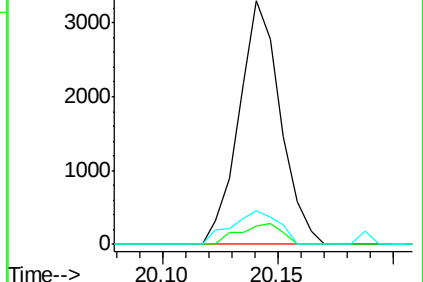
122 14.0 8.3 12.5#



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: 40.26 ng

RT: 21.82 min Scan# 3231

Delta R.T. 0.01 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

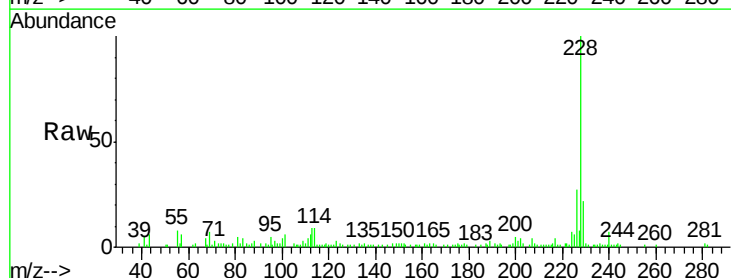
Tgt Ion:228 Resp: 40514

Ion Ratio Lower Upper

228 100

226 27.1 22.7 34.1

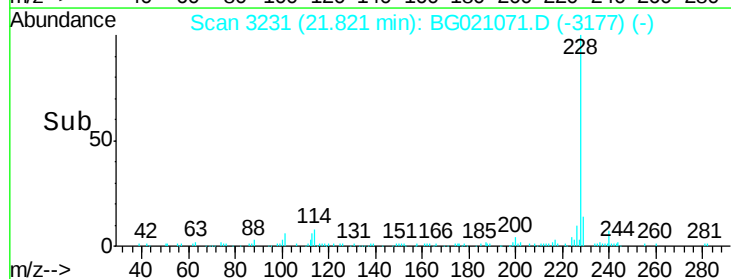
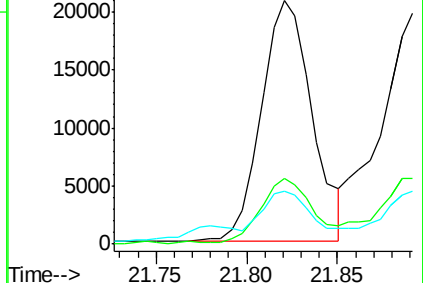
229 21.5 15.5 23.3

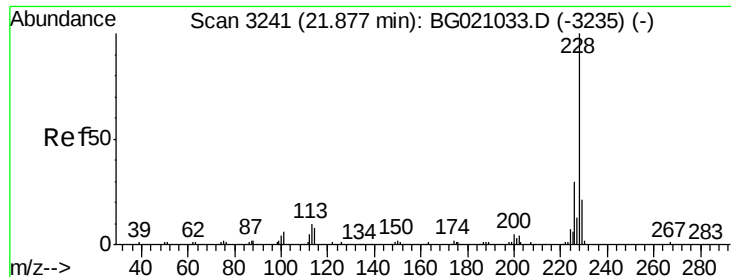


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 45.48 ng

RT: 21.89 min Scan# 3243

Delta R.T. 0.01 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampled :

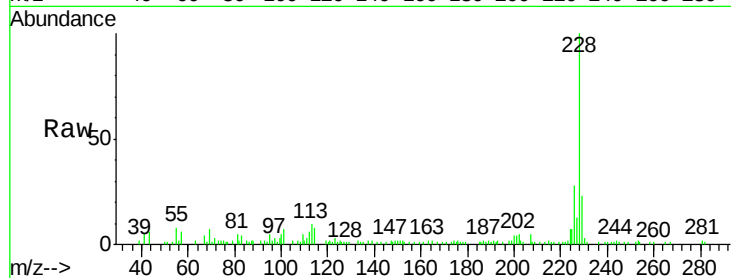
Tot Ion:228 Resp: 42699

Ion Ratio Lower Upper

228 100

226 28.2 23.7 35.5

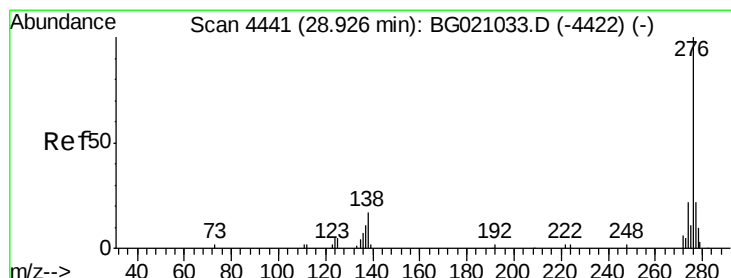
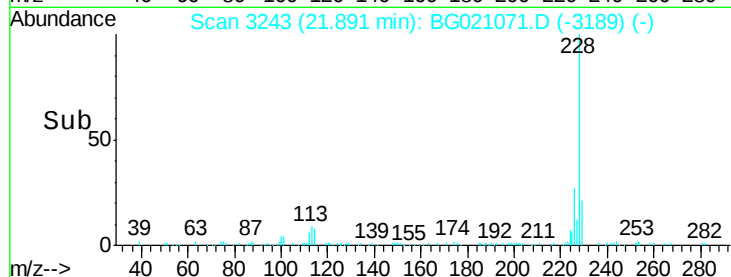
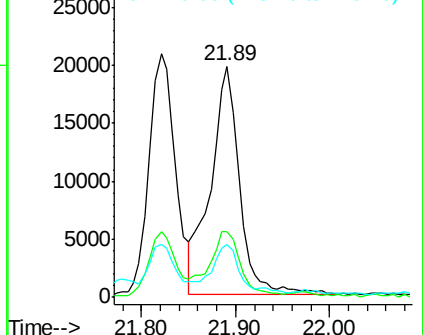
229 23.2 16.7 25.1



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: 3.59 ng

RT: 28.98 min Scan# 4449

Delta R.T. 0.05 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

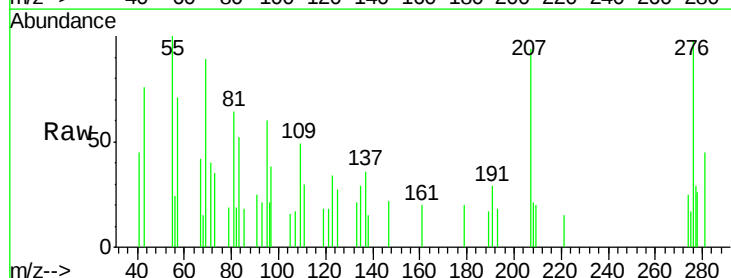
Tgt Ion:276 Resp: 3034

Ion Ratio Lower Upper

276 100

138 21.8 0.0 0.0#

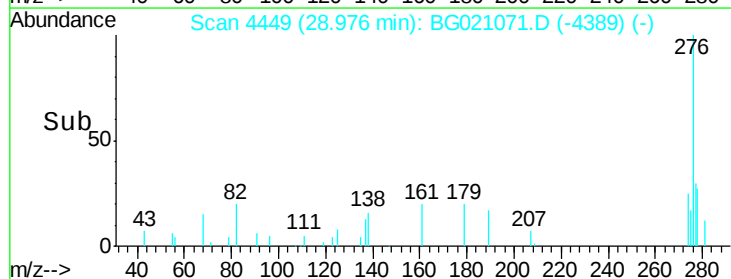
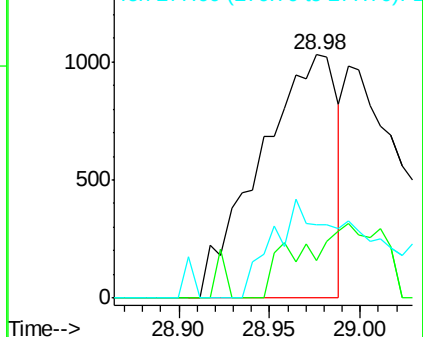
277 0.0 0.0 0.0

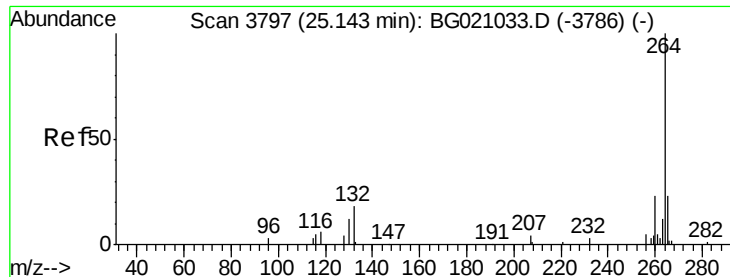


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

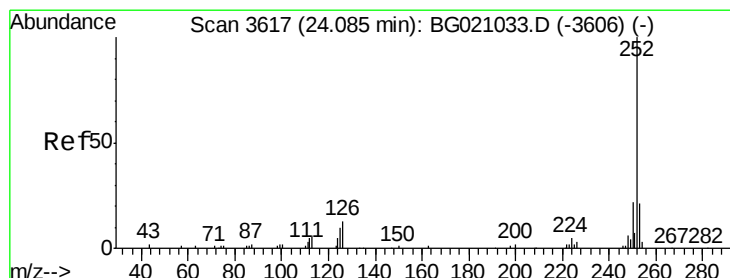
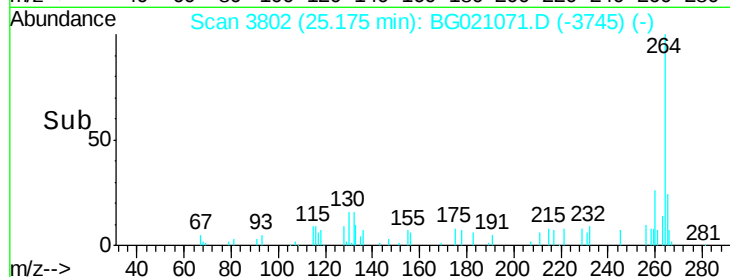
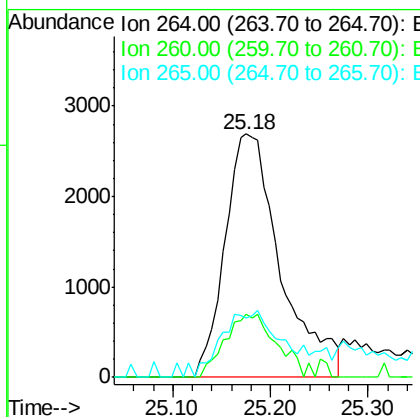
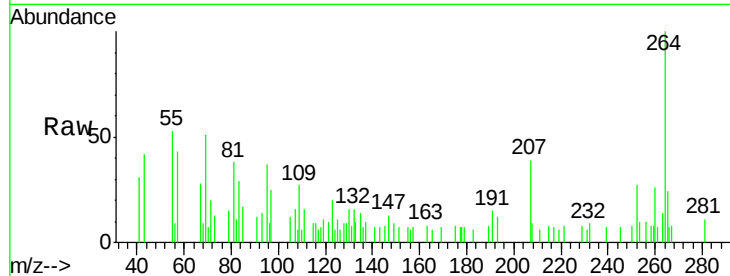




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.18 min Scan# 3802
Delta R.T. 0.03 min
Lab File: BG021071.D
Acq: 25 Feb 2016 3:50

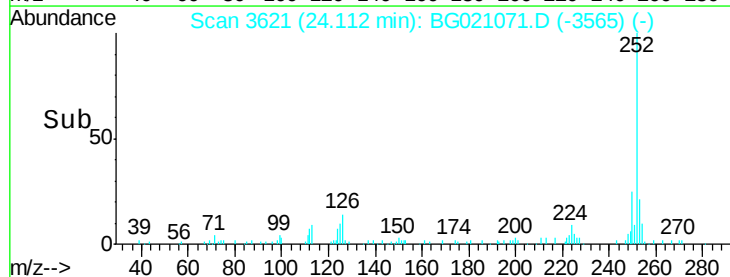
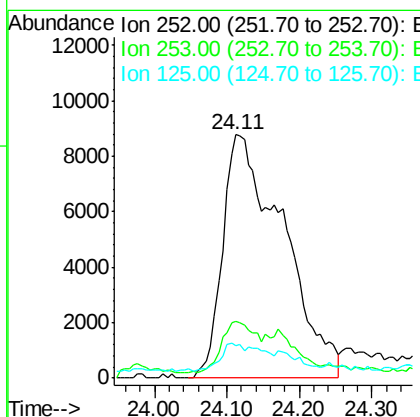
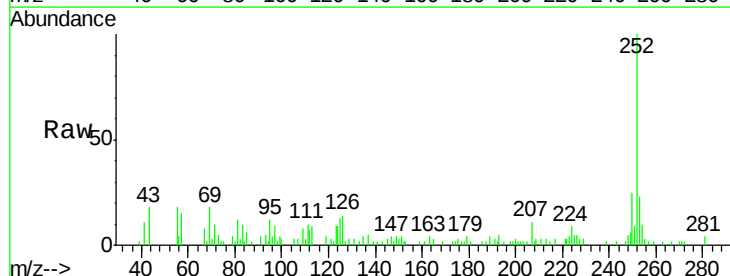
Instrument :
BNA_G
ClientSampleId :

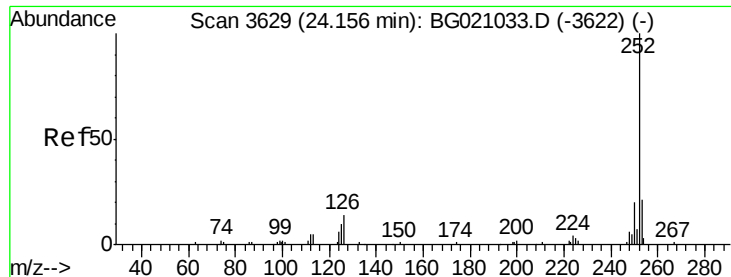
Tot Ion:264 Resp: 10627
Ion Ratio Lower Upper
264 100
260 25.9 18.5 27.7
265 24.2 18.6 28.0



#87
Benzo(b)fluoranthene
Concen: 72.49 ng
RT: 24.11 min Scan# 3621
Delta R.T. 0.03 min
Lab File: BG021071.D
Acq: 25 Feb 2016 3:50

Tgt Ion:252 Resp: 50792
Ion Ratio Lower Upper
252 100
253 23.4 16.8 25.2
125 13.2 8.2 12.2#





#88

Benzo(k)fluoranthene

Concen: 76.84 ng

RT: 24.11 min Scan# 3621

Delta R.T. -0.04 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampleId :

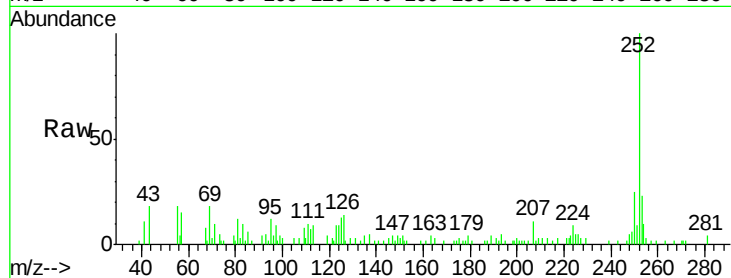
Tot Ion:252 Resp: 50792

Ion Ratio Lower Upper

252 100

253 23.4 16.4 24.6

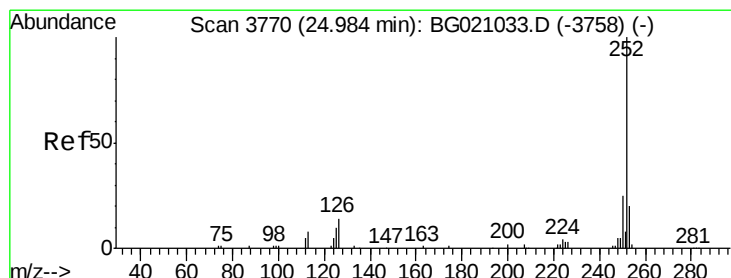
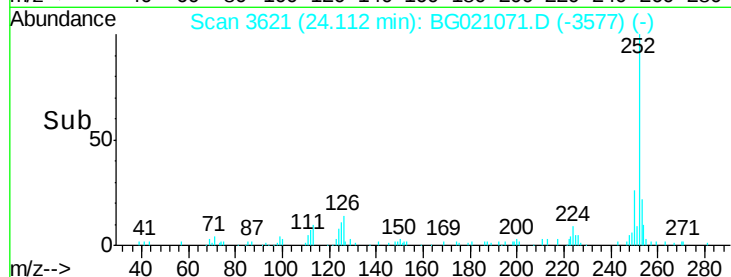
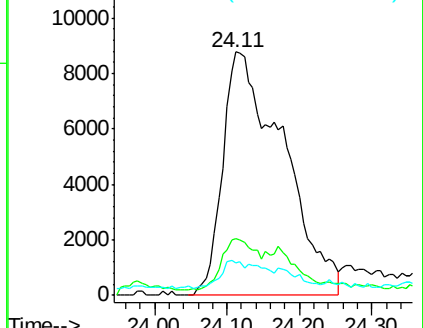
125 13.2 8.2 12.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 22.96 ng

RT: 25.02 min Scan# 3775

Delta R.T. 0.03 min

Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

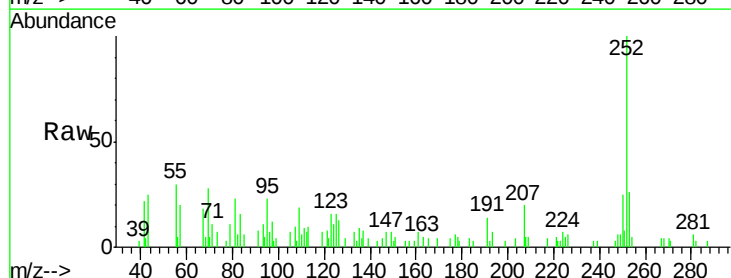
Tgt Ion:252 Resp: 14411

Ion Ratio Lower Upper

252 100

253 26.3 15.8 23.8#

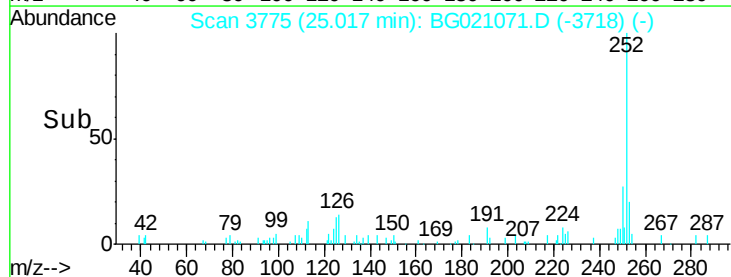
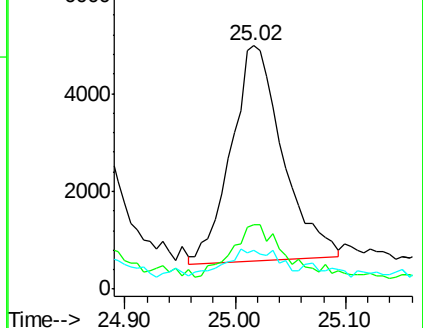
125 15.9 8.4 12.6#

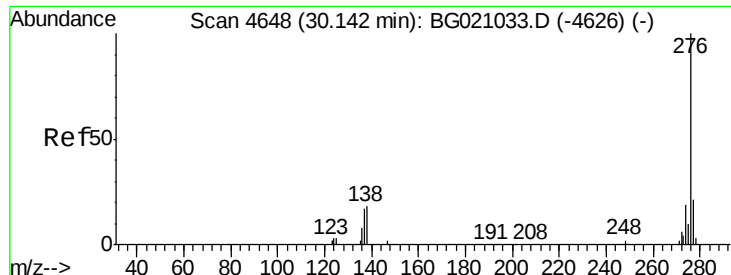


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 8.93 ng

RT: 30.17 min Scan# 4653

Delta R.T. 0.03 min

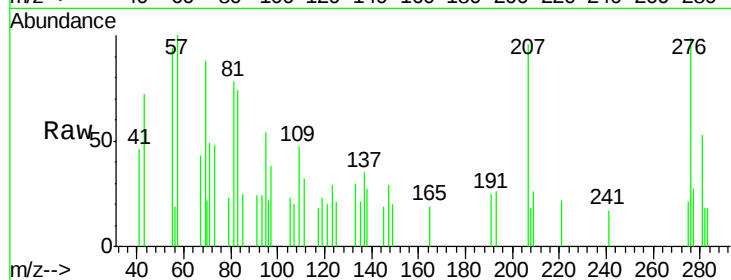
Lab File: BG021071.D

Acq: 25 Feb 2016 3:50

Instrument :

BNA_G

ClientSampleId :



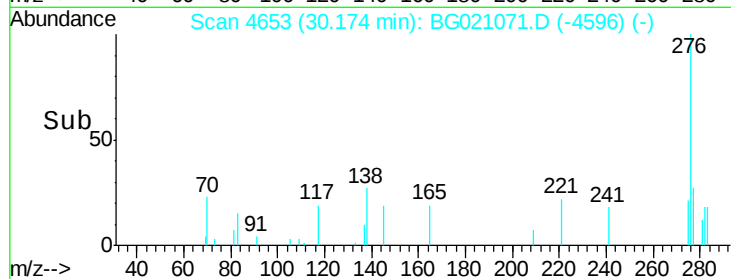
Tot Ion: 276 Resp: 5040

Ion Ratio Lower Upper

276 100

277 27.1 16.6 25.0#

138 27.1 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

