

Data Path : U:\HPCHEM1\BNA G\DATA\BG042116\
 Data File : BG021786.D
 Acq On : 20 Apr 2016 15:44
 Operator : UM/SJ
 Sample : H2413-04
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Apr 21 01:07:29 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 13 15:48:13 2016
 Response via : Initial Calibration

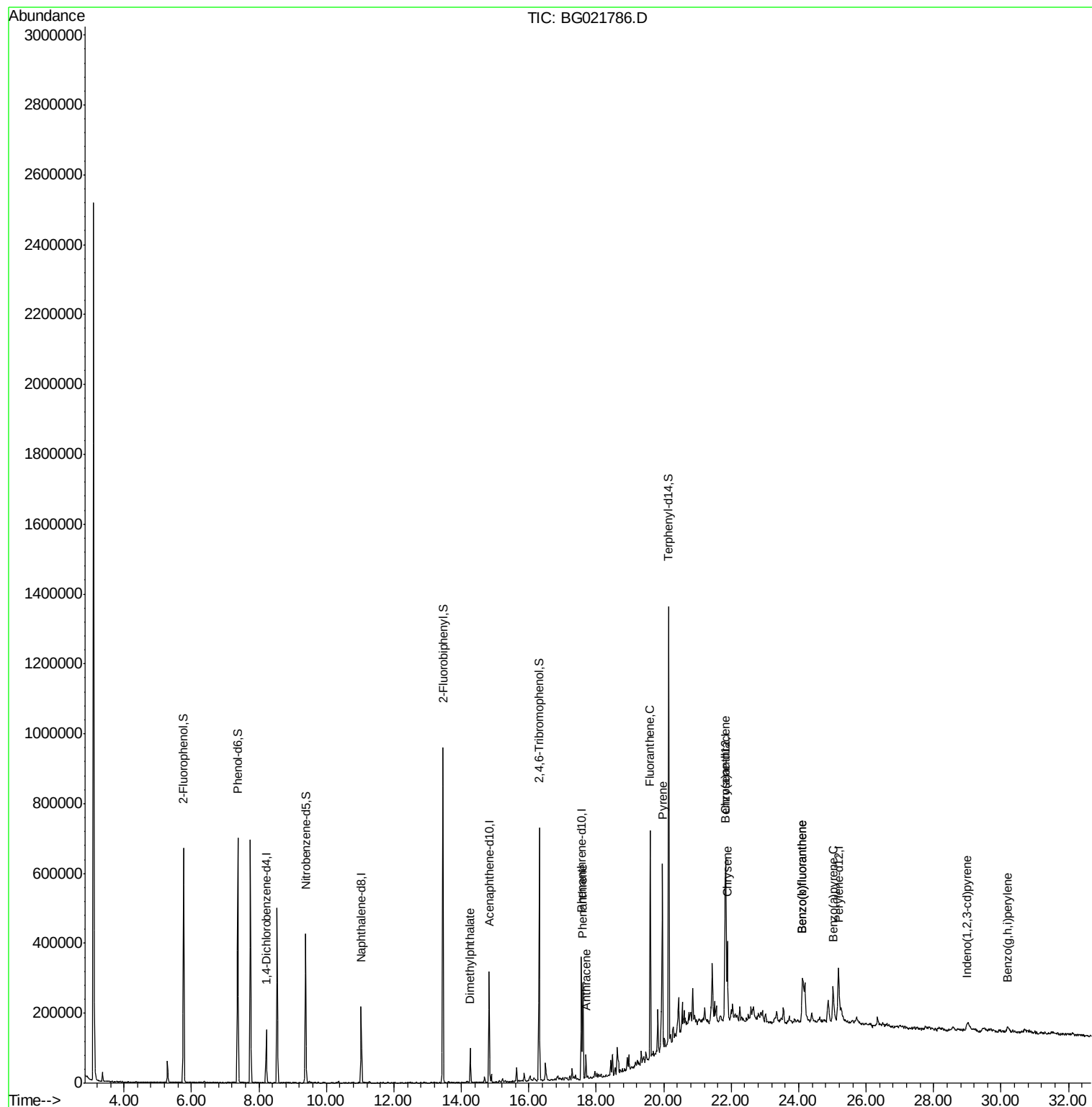
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.21	152	44632	20.00	ng	-0.01
21) Naphthalene-d8	11.03	136	194479	20.00	ng	0.00
38) Acenaphthene-d10	14.83	164	109842	20.00	ng	0.00
63) Phenanthrene-d10	17.56	188	220571	20.00	ng	0.00
75) Chrysene-d12	21.84	240	241557	20.00	ng	0.00
86) Perylene-d12	25.19	264	207036	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.77	112	295811	110.37	ng	0.00
7) Phenol-d6	7.37	99	425246	106.22	ng	0.01
23) Nitrobenzene-d5	9.39	82	272053	71.90	ng	0.00
41) 2,4,6-Tribromophenol	16.31	330	133067	112.40	ng	0.00
44) 2-Fluorobiphenyl	13.45	172	505066	67.37	ng	0.00
78) Terphenyl-d14	20.14	244	540711	55.85	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	14.26	163	65338	6.88	ng	98
70) Phenanthrene	17.61	178	173300	14.26	ng	99
71) Anthracene	17.69	178	45875	3.72	ng	100
74) Fluoranthene	19.60	202	403404	27.79	ng	99
77) Pyrene	19.96	202	355464	25.52	ng	99
80) Benzo(a)anthracene	21.82	228	193902	13.95	ng	99
82) Chrysene	21.88	228	171507	12.84	ng	96
85) Indeno(1,2,3-cd)pyrene	29.00	276	52483	3.31	ng	# 85
87) Benzo(b)fluoranthene	24.12	252	191636	15.95	ng	# 94
88) Benzo(k)fluoranthene	24.12	252	191636	16.31	ng	# 95
89) Benzo(a)pyrene	25.02	252	126083	10.83	ng	94
91) Benzo(a,h,i)perylene	30.20	276	43989	3.84	ng	99

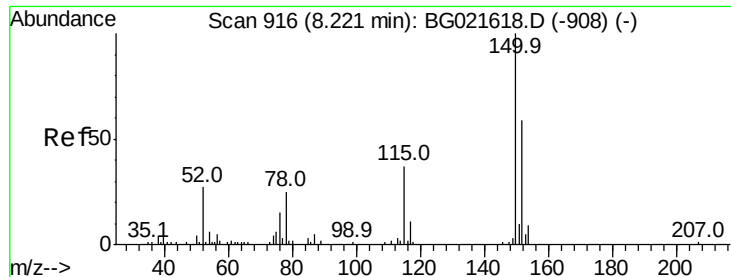
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.21 min Scan# 914

Delta R.T. -0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampled :

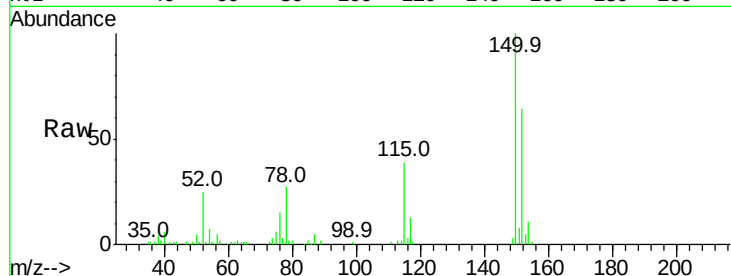
Tot Ion:152 Resp: 44632

Ion Ratio Lower Upper

152 100

150 157.1 130.1 195.1

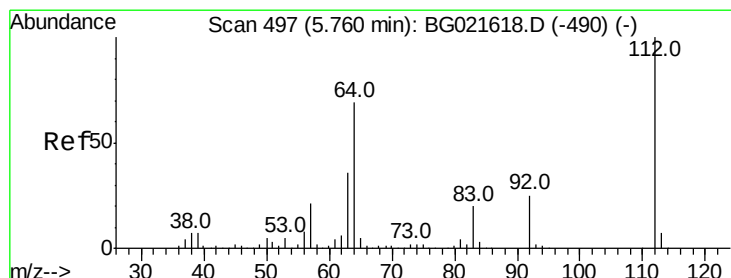
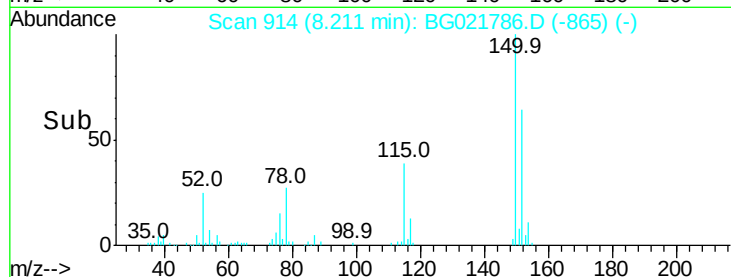
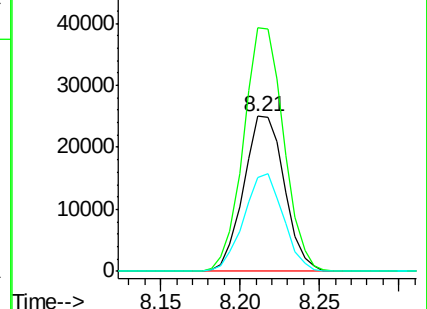
115 60.5 62.2 93.2#



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: 110.37 ng

RT: 5.77 min Scan# 498

Delta R.T. 0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

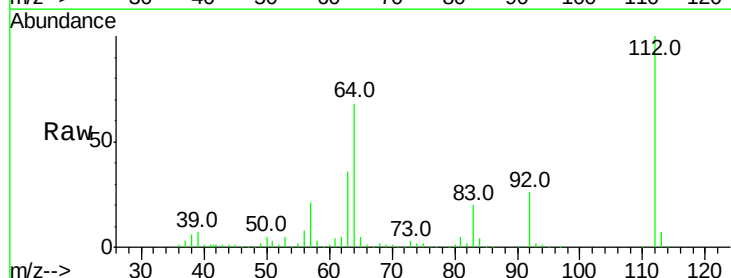
Tgt Ion:112 Resp: 295811

Ion Ratio Lower Upper

112 100

64 67.6 51.1 76.7

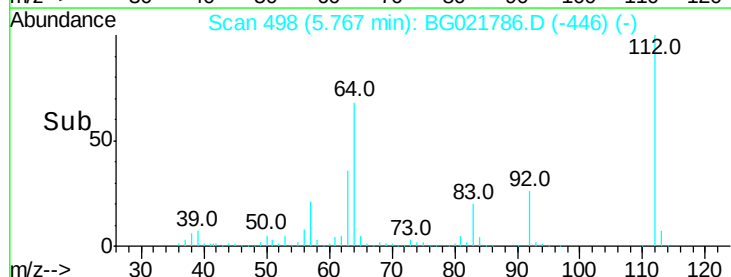
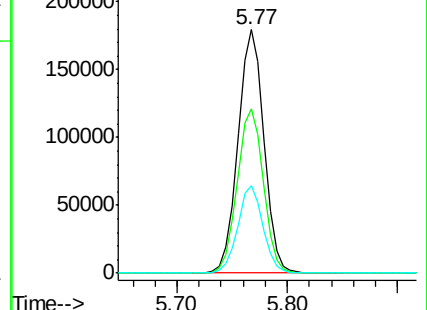
63 35.8 24.6 37.0

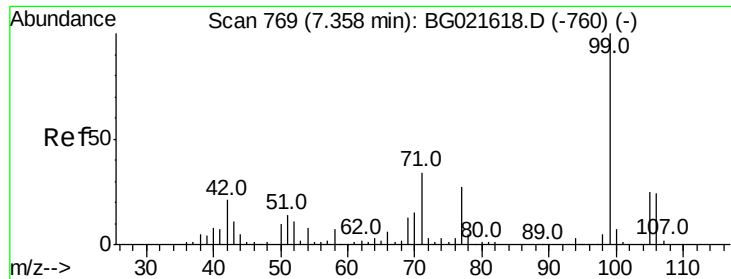


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 106.22 ng

RT: 7.37 min Scan# 771

Delta R.T. 0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampleId :

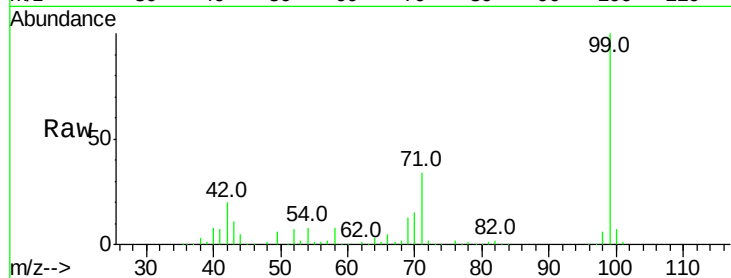
Tot Ion: 99 Resp: 425246

Ion Ratio Lower Upper

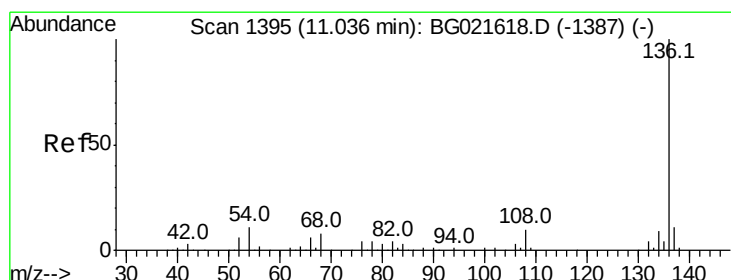
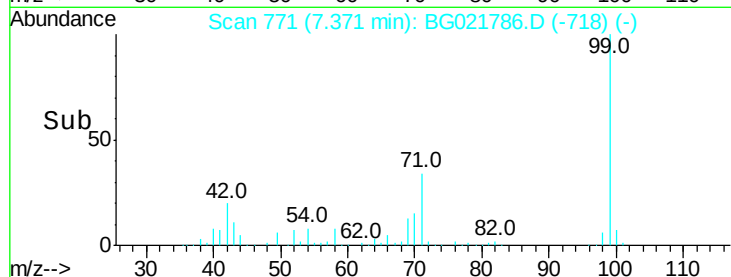
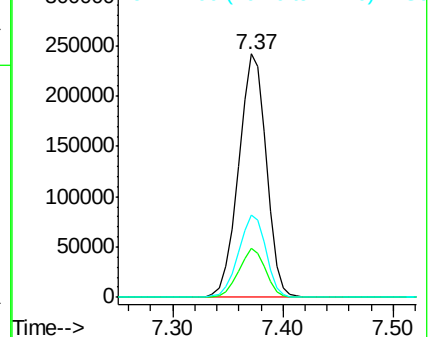
99 100

42 19.9 16.4 24.6

71 33.9 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: 11.03 min Scan# 1394

Delta R.T. -0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Tgt Ion: 136 Resp: 194479

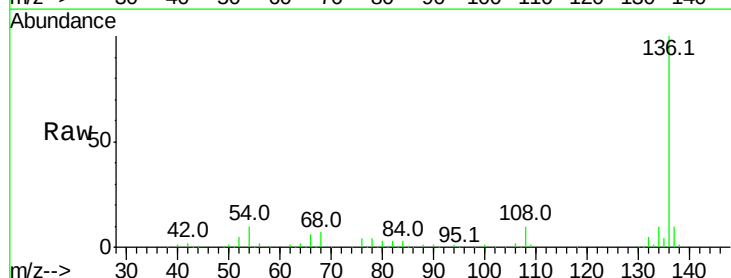
Ion Ratio Lower Upper

136 100

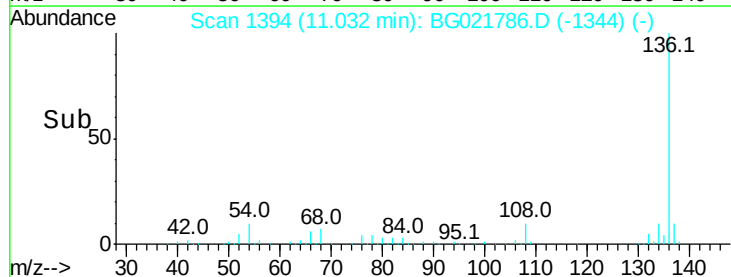
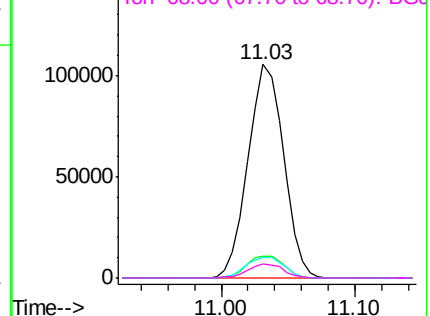
137 10.1 9.0 13.4

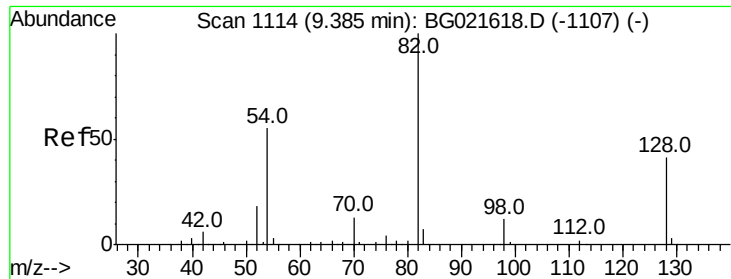
54 9.6 9.6 14.4

68 6.6 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

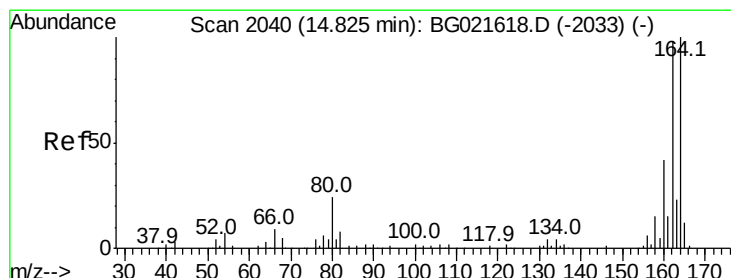
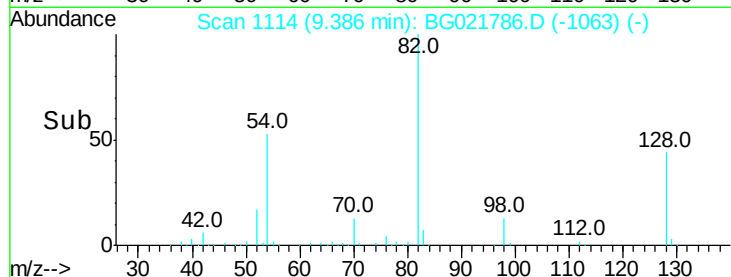
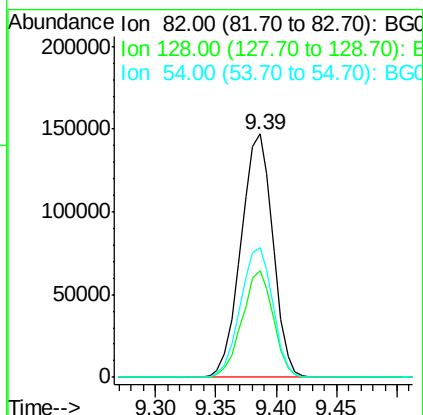
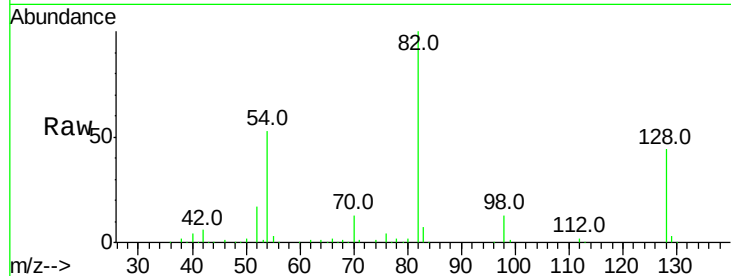




#23
 Nitrobenzene-d5
 Concen: 71.90 ng
 RT: 9.39 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: BG021786.D
 Acq: 20 Apr 2016 15:44

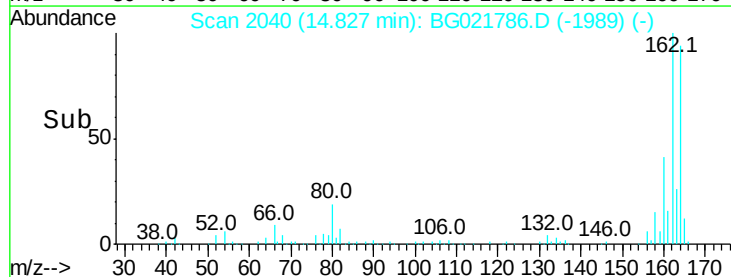
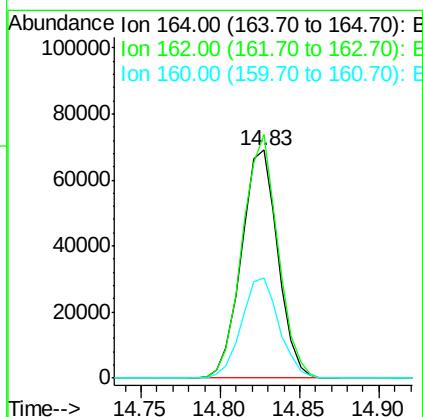
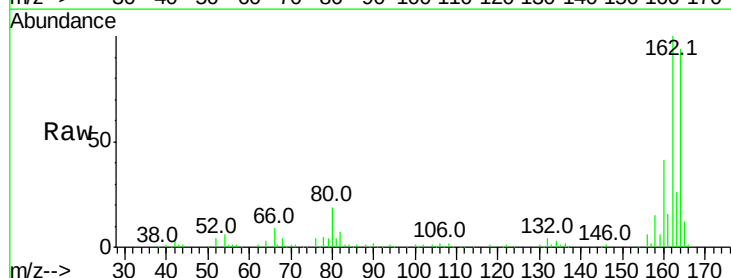
Instrument :
 BNA_G
 ClientSampleId :

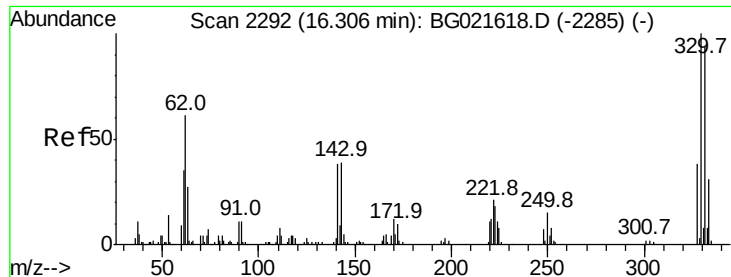
Tot Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.4	50.0
54	53.5	46.1	69.1



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.83 min Scan# 2040
 Delta R.T. 0.00 min
 Lab File: BG021786.D
 Acq: 20 Apr 2016 15:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.8	78.0	117.0
160	43.8	32.9	49.3





#41

2,4,6-Tribromophenol

Concen: 112.40 ng

RT: 16.31 min Scan# 2292

Delta R.T. 0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampled :

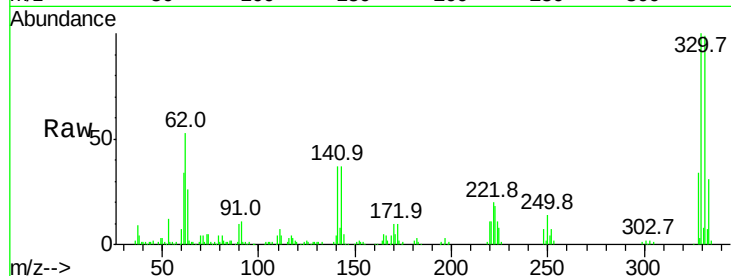
Tot Ion:330 Resp: 133067

Ion Ratio Lower Upper

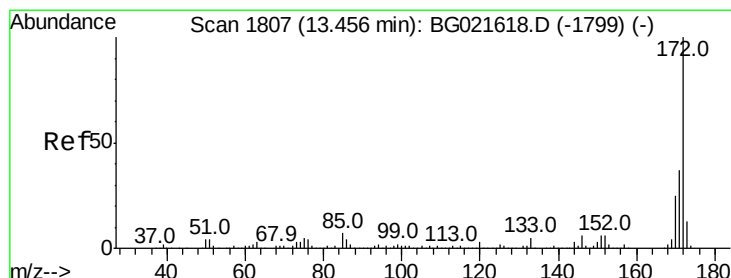
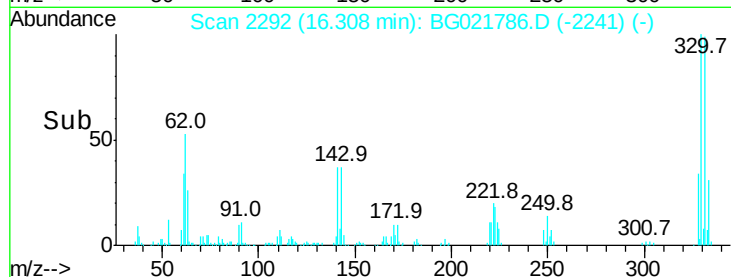
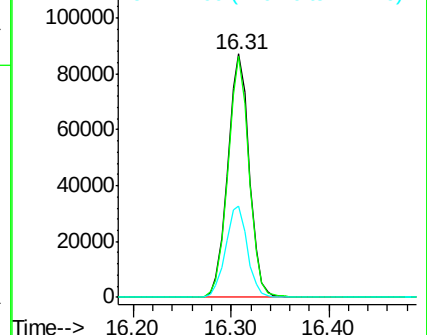
330 100

332 96.6 78.0 117.0

141 37.9 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: 67.37 ng

RT: 13.45 min Scan# 1806

Delta R.T. -0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

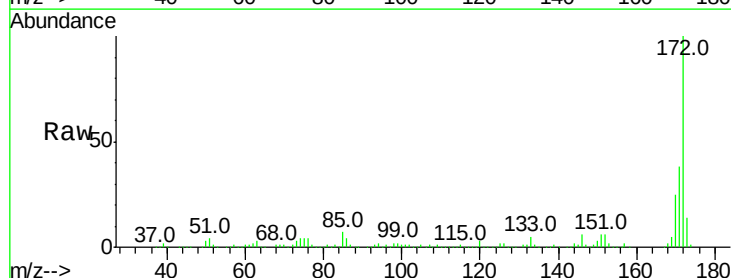
Tgt Ion:172 Resp: 505066

Ion Ratio Lower Upper

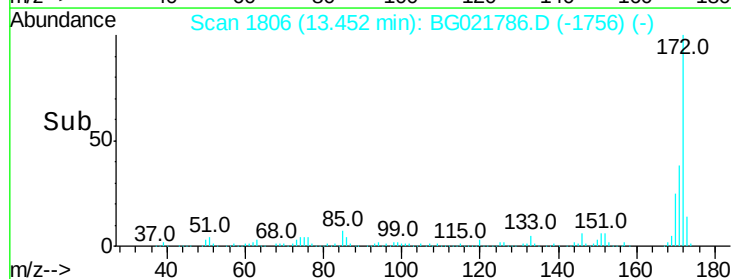
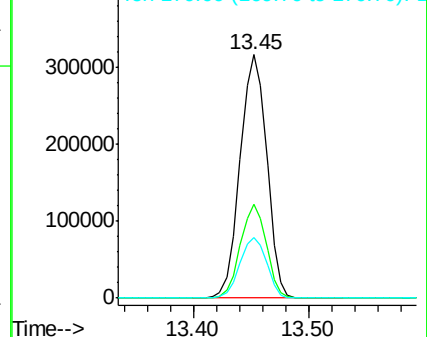
172 100

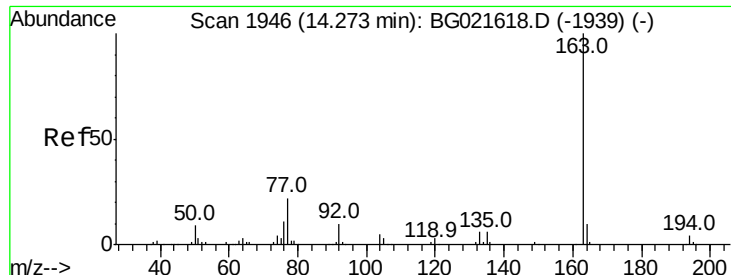
171 38.3 27.8 41.6

170 25.1 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: 6.88 ng

RT: 14.26 min Scan# 1944

Delta R.T. -0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampleId :

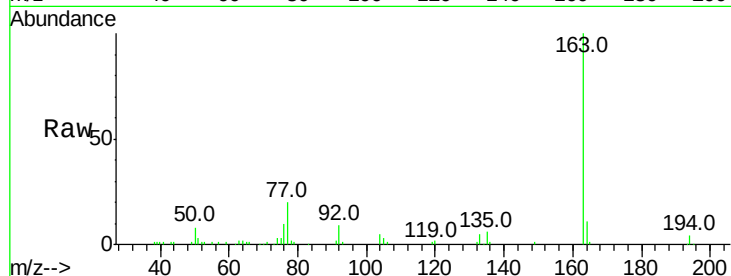
Tot Ion:163 Resp: 65338

Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

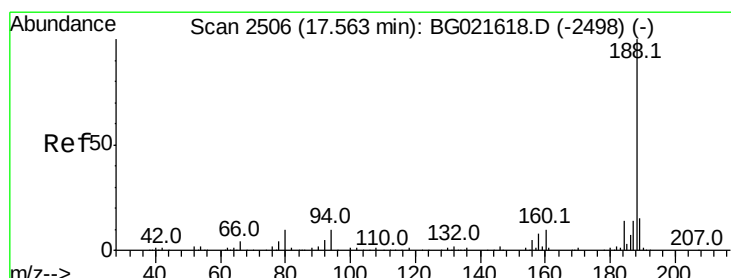
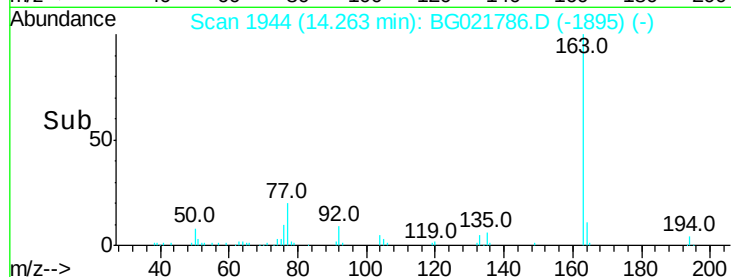
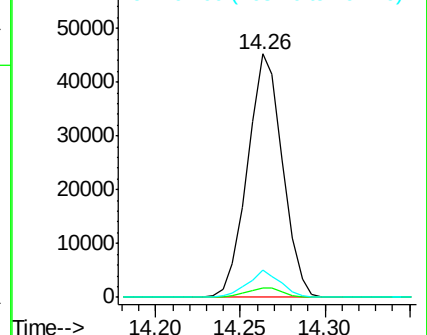
164 11.1 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.56 min Scan# 2505

Delta R.T. -0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

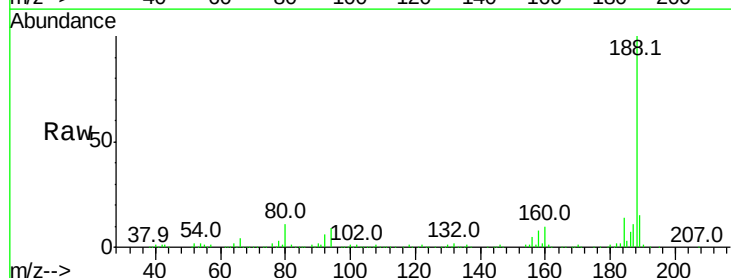
Tgt Ion:188 Resp: 220571

Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

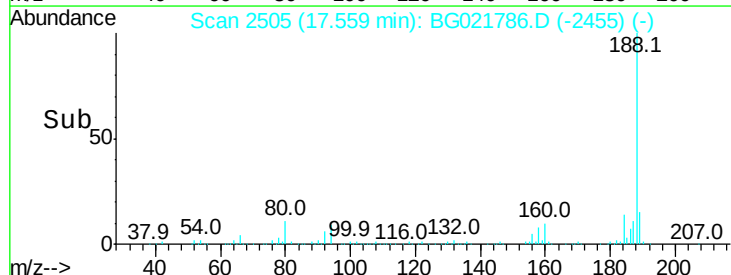
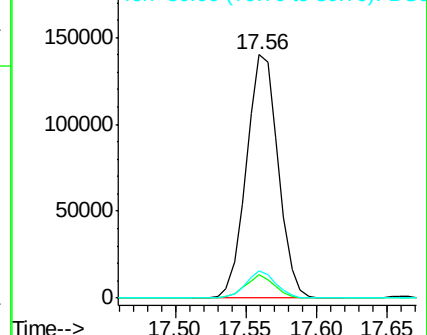
80 11.0 8.6 13.0

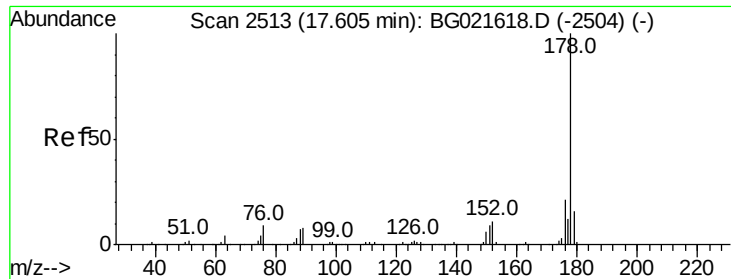


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0

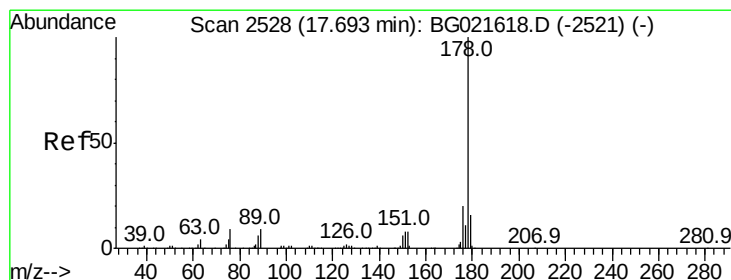
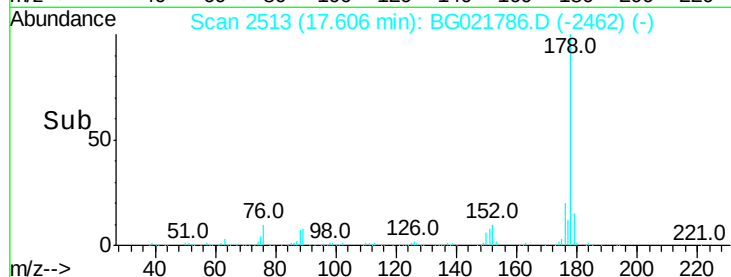
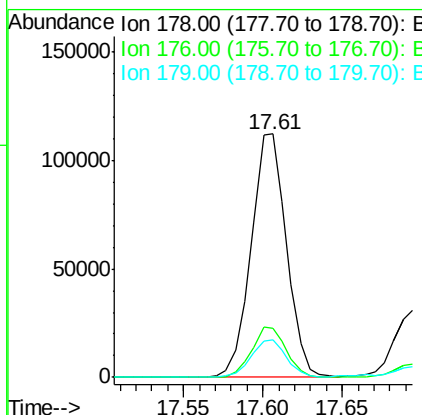
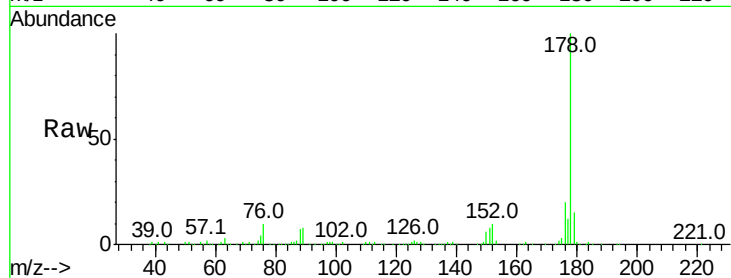




#70
Phenanthrene
Concen: 14.26 ng
RT: 17.61 min Scan# 2513
Delta R.T. 0.00 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

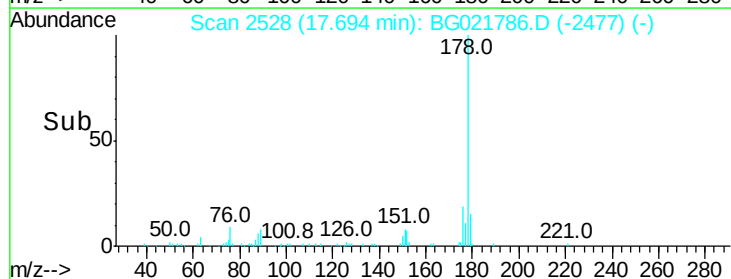
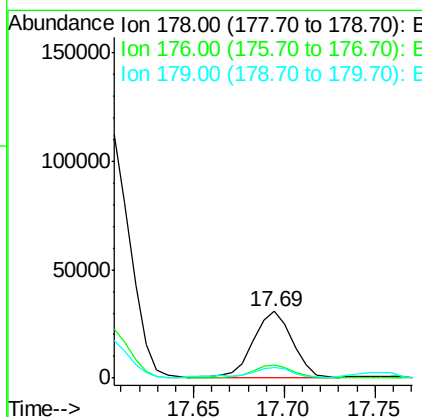
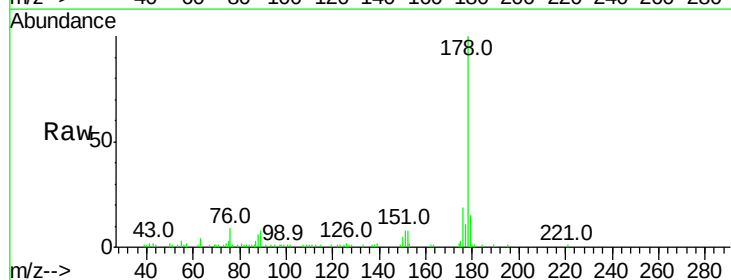
Instrument :
BNA_G
ClientSampleId :

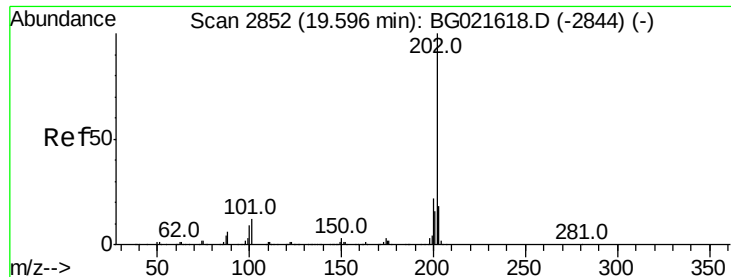
Tot Ion:178 Resp: 173300
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 15.4 12.0 18.0



#71
Anthracene
Concen: 3.72 ng
RT: 17.69 min Scan# 2528
Delta R.T. 0.00 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

Tgt Ion:178 Resp: 45875
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.4
179 15.2 12.2 18.4





#74

Fluoranthene

Concen: 27.79 ng

RT: 19.60 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampleId :

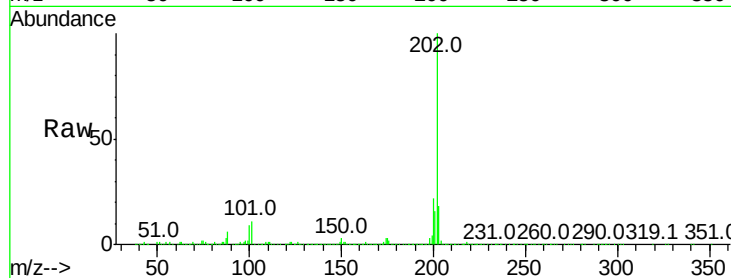
Tot Ion:202 Resp: 403404

Ion Ratio Lower Upper

202 100

101 10.6 0.0 31.0

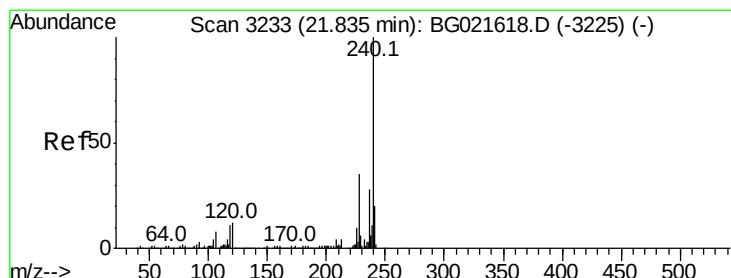
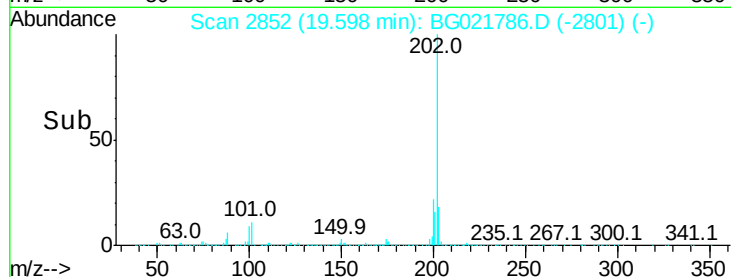
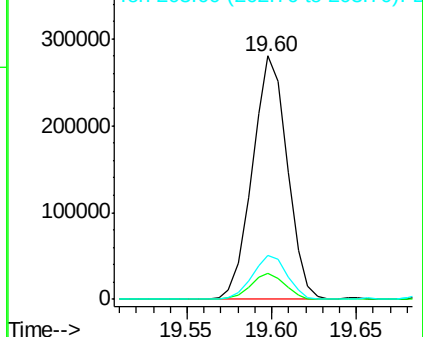
203 18.1 0.0 37.9



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: 21.84 min Scan# 3233

Delta R.T. 0.00 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

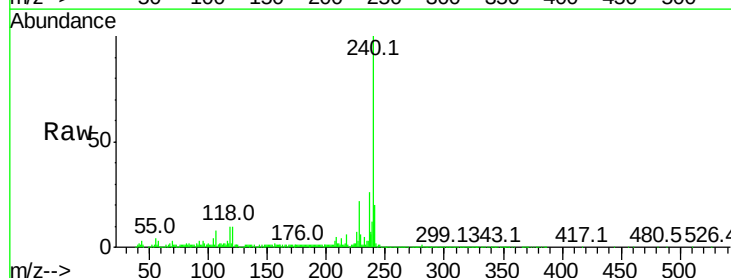
Tgt Ion:240 Resp: 241557

Ion Ratio Lower Upper

240 100

120 9.6 8.4 12.6

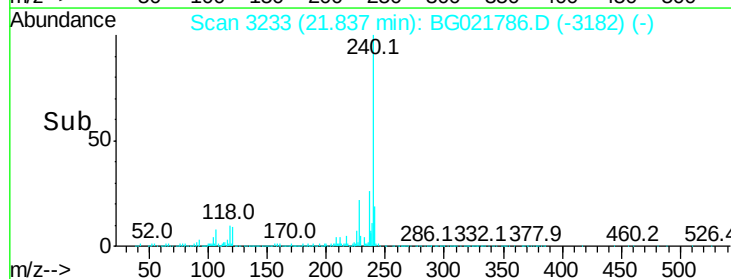
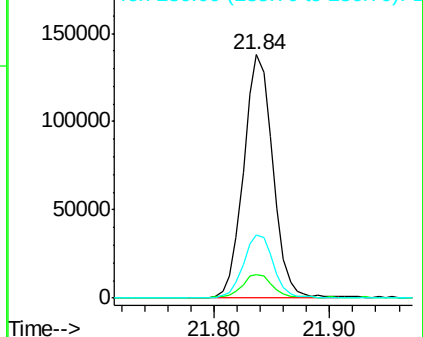
236 26.2 19.6 29.4

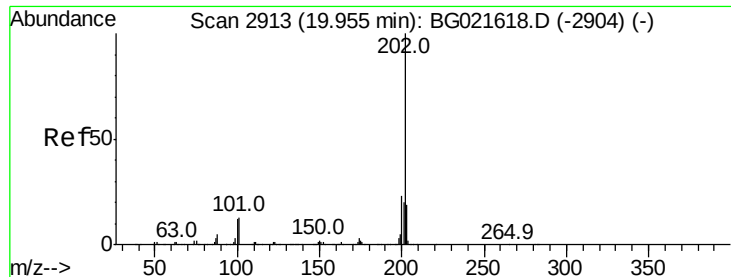


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

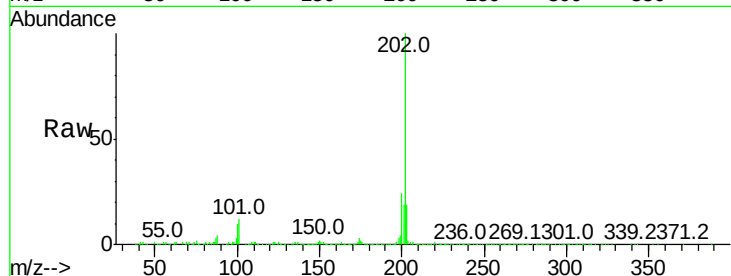




#77
Pvrene
Concen: 25.52 ng
RT: 19.96 min Scan# 2914
Delta R.T. 0.01 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

Instrument :
BNA_G
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	23.5	18.2	27.2
203	19.0	15.0	22.4

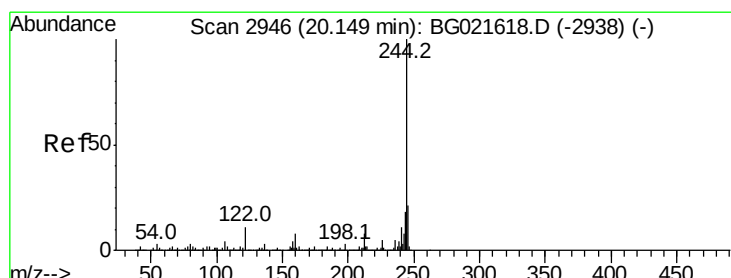
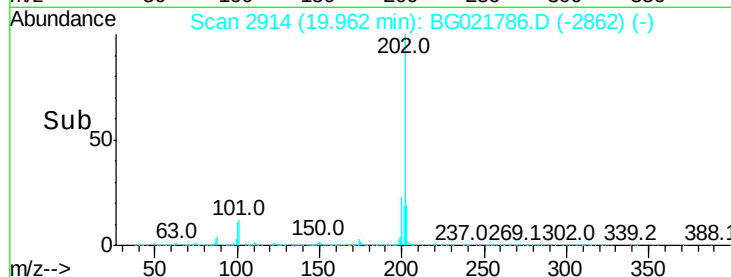
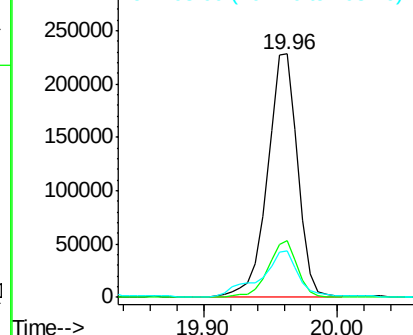


Abundance

Ion 202.00 (201.70 to 202.70): E

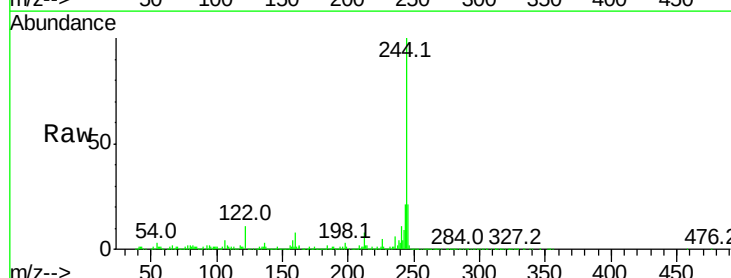
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78
Terphenyl-d14
Concen: 55.85 ng
RT: 20.14 min Scan# 2945
Delta R.T. -0.00 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.5	9.7
122	10.8	8.6	12.8

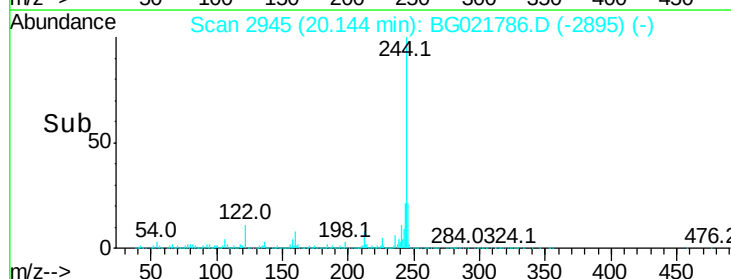
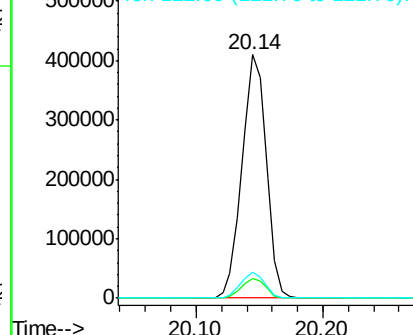


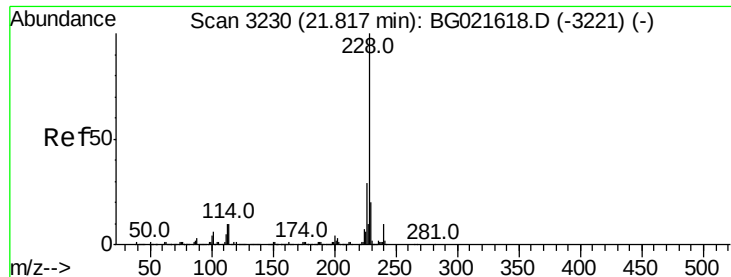
Abundance

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

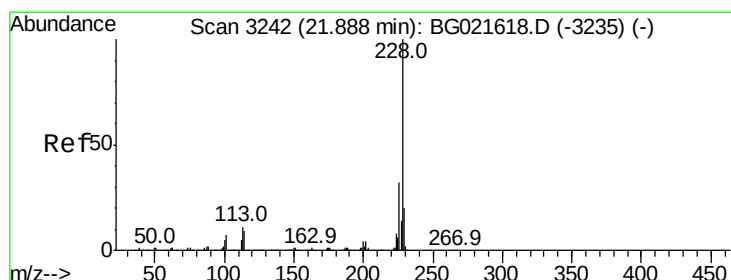
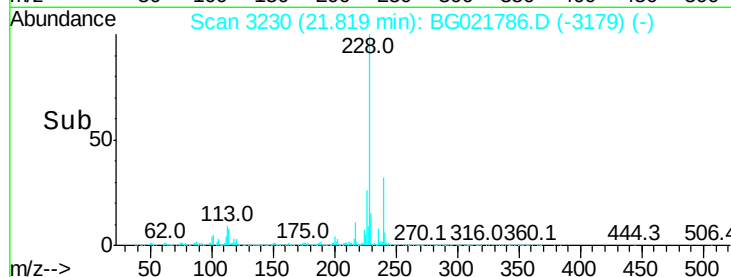
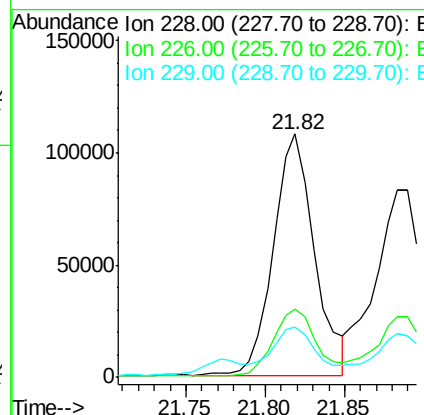
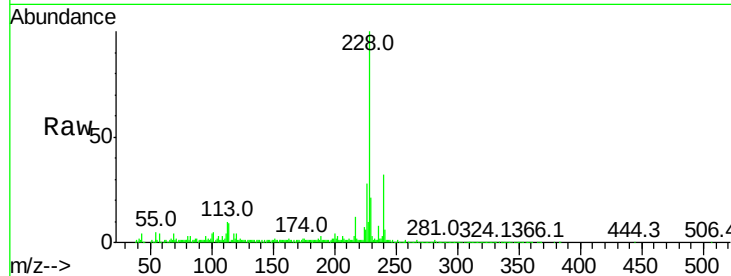




#80
Benzo(a)anthracene
Concen: 13.95 ng
RT: 21.82 min Scan# 3230
Delta R.T. 0.00 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

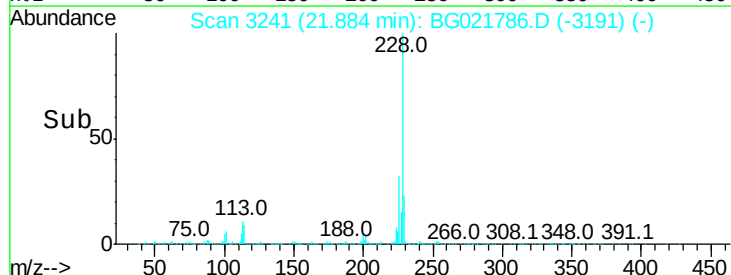
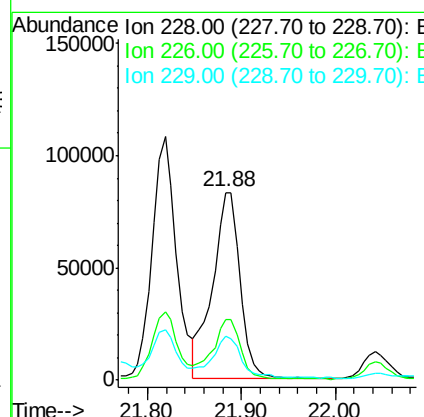
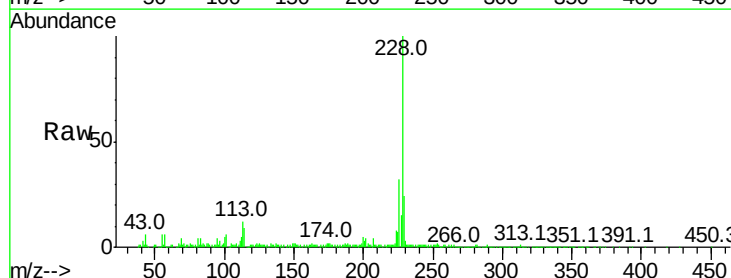
Instrument :
BNA_G
ClientSampled :

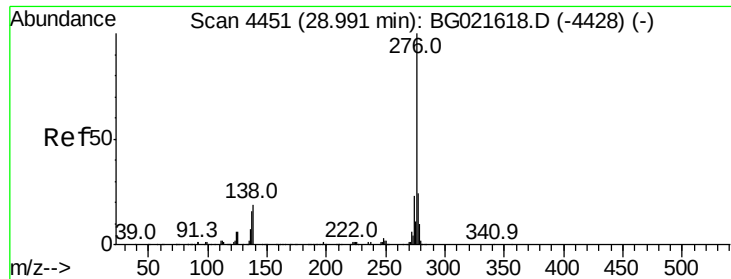
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	34.0
229	20.9	16.1	24.1



#82
Chrysene
Concen: 12.84 ng
RT: 21.88 min Scan# 3241
Delta R.T. -0.00 min
Lab File: BG021786.D
Acq: 20 Apr 2016 15:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.4	38.0
229	23.6	15.9	23.9





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.31 ng

RT: 29.00 min Scan# 4452

Delta R.T. 0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampleId :

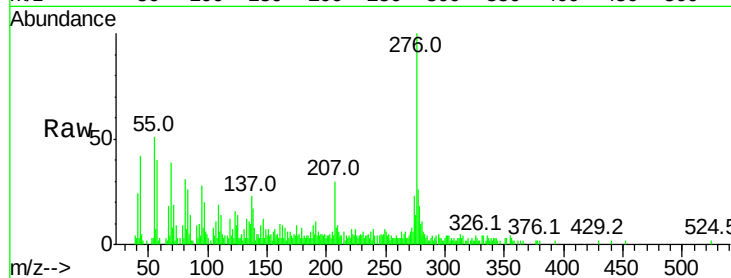
Tot Ion:276 Resp: 52483

Ion Ratio Lower Upper

276 100

138 8.0 14.0 21.0#

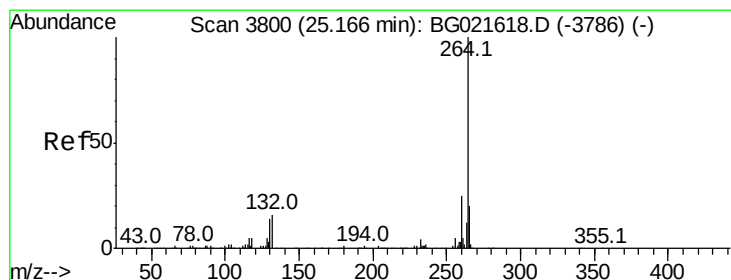
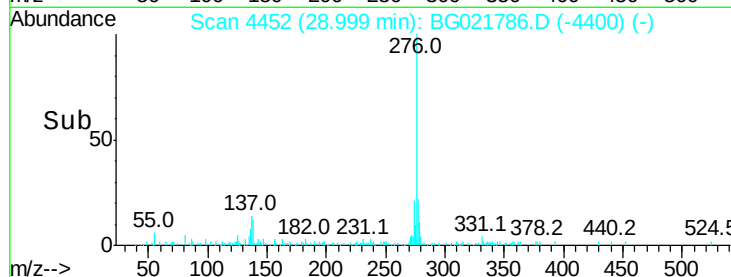
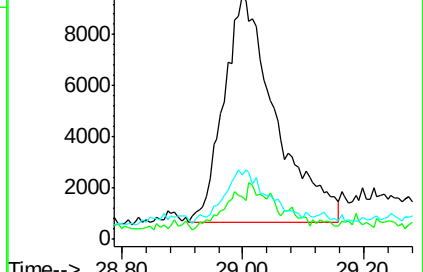
277 20.3 20.6 30.8#



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

Perylene-d12

Concen: 20.00 ng

RT: 25.19 min Scan# 3803

Delta R.T. 0.02 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

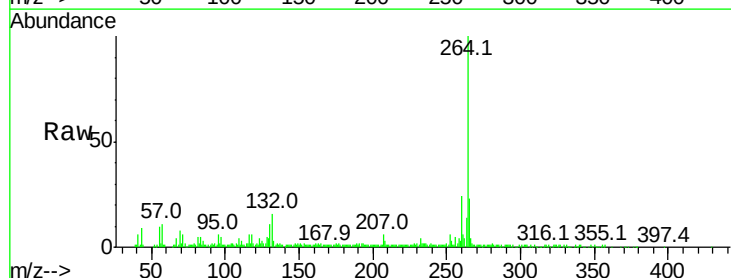
Tgt Ion:264 Resp: 207036

Ion Ratio Lower Upper

264 100

260 24.1 20.2 30.4

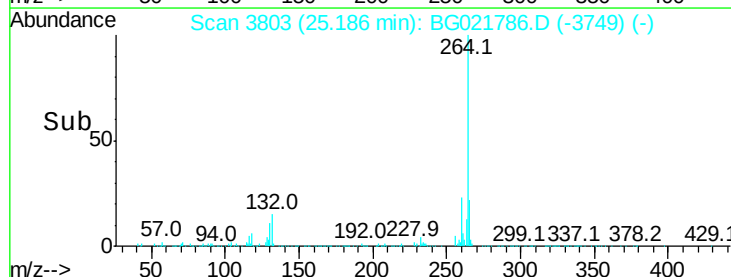
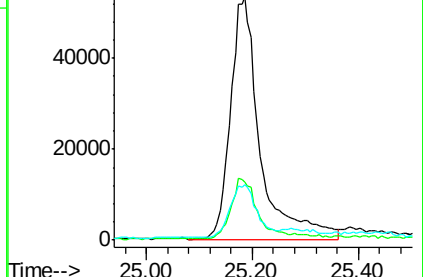
265 22.6 17.8 26.8

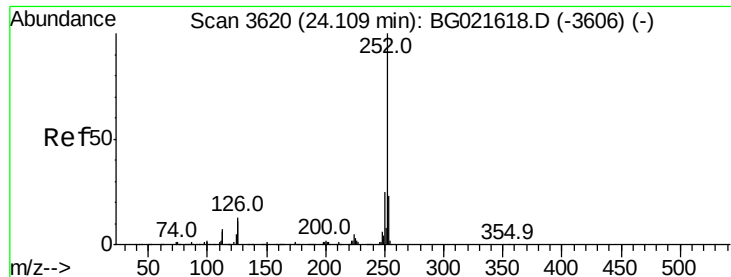


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 15.95 ng

RT: 24.12 min Scan# 3621

Delta R.T. 0.01 min

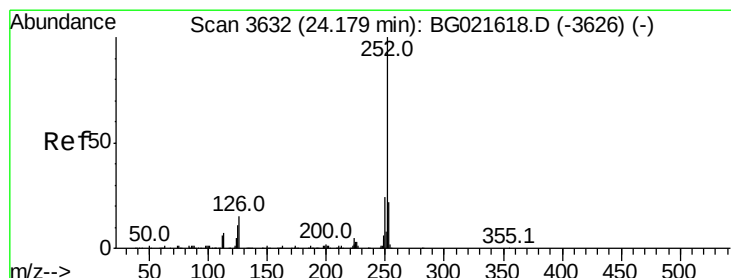
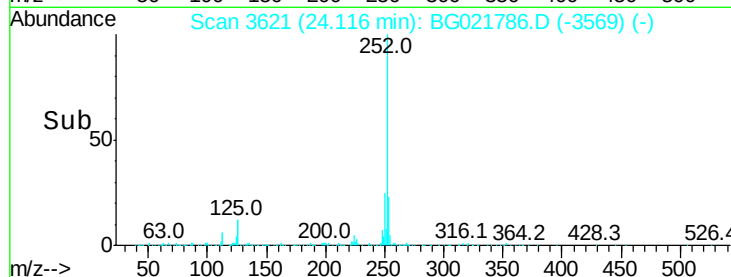
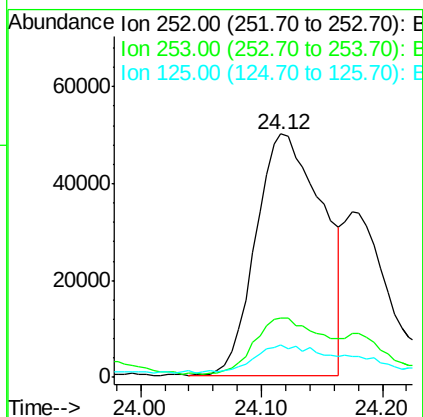
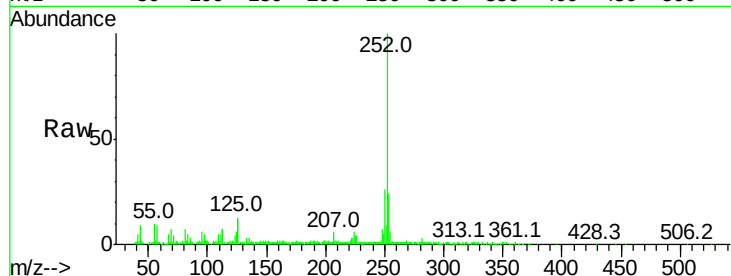
Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :
BNA_G
ClientSampleId :

Tot Ion:252 Resp: 191636

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.5	26.3
125	13.5	8.6	13.0#



#88

Benzo(k)fluoranthene

Concen: 16.31 ng

RT: 24.12 min Scan# 3621

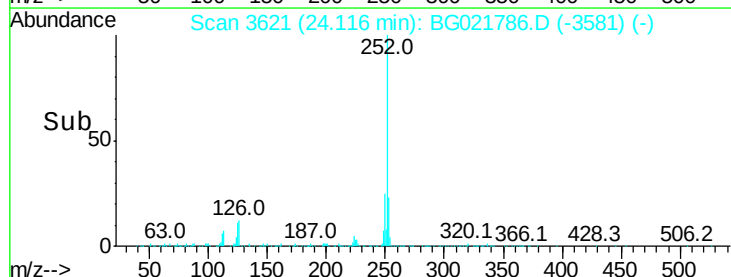
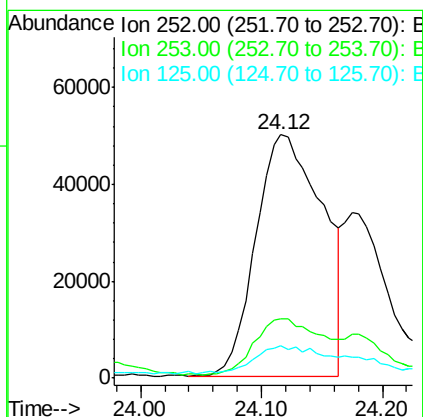
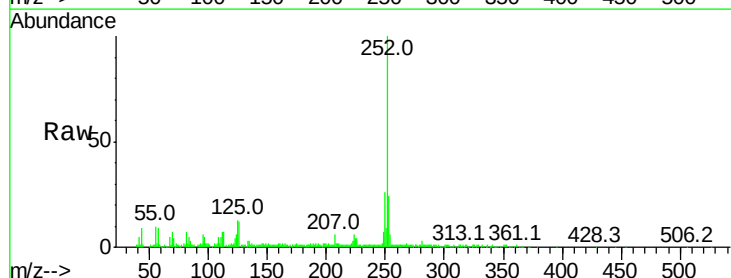
Delta R.T. -0.06 min

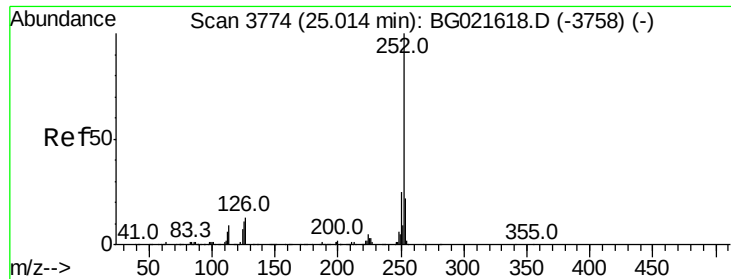
Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Tgt Ion:252 Resp: 191636

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.8	26.8
125	13.5	8.3	12.5#





#89

Benzo(a)pyrene

Concen: 10.83 ng

RT: 25.02 min Scan# 3775

Delta R.T. 0.01 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

Instrument :

BNA_G

ClientSampleId :

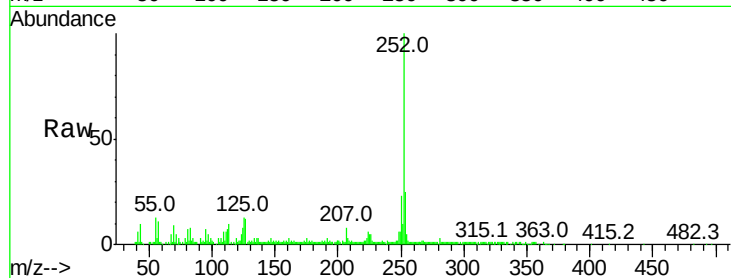
Tot Ion:252 Resp: 126083

Ion Ratio Lower Upper

252 100

253 25.3 17.1 25.7

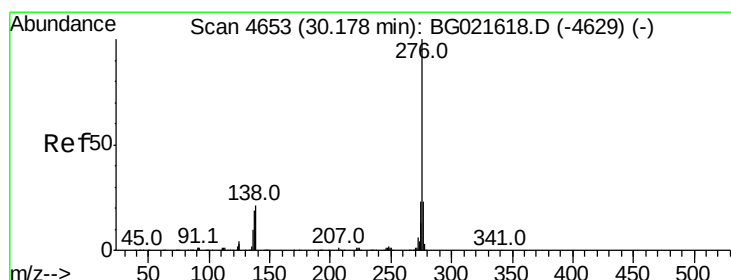
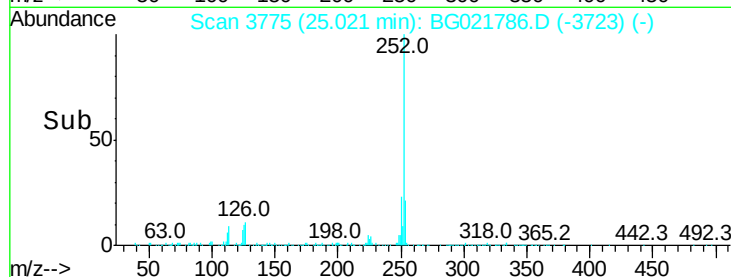
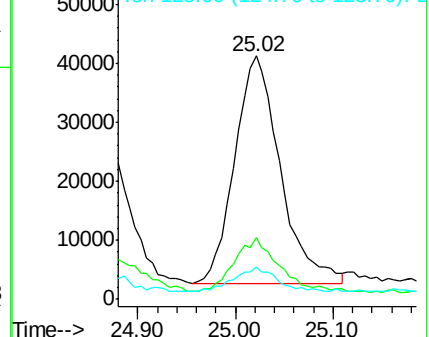
125 13.1 9.6 14.4



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(g,h,i)perylene

Concen: 3.84 ng

RT: 30.20 min Scan# 4657

Delta R.T. 0.03 min

Lab File: BG021786.D

Acq: 20 Apr 2016 15:44

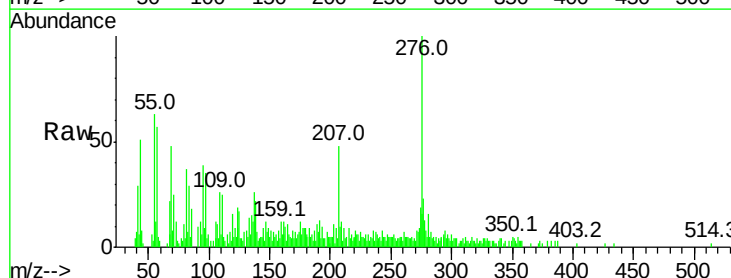
Tgt Ion:276 Resp: 43989

Ion Ratio Lower Upper

276 100

277 23.4 19.4 29.2

138 22.0 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

