

Data Path : Z:\HPCHEM1\BNA G\DATA\BG030216\
 Data File : BG021218.D
 Acq On : 2 Mar 2016 18:22
 Operator : UM/SJ
 Sample : H1557-02RE 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Mar 03 00:11:54 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

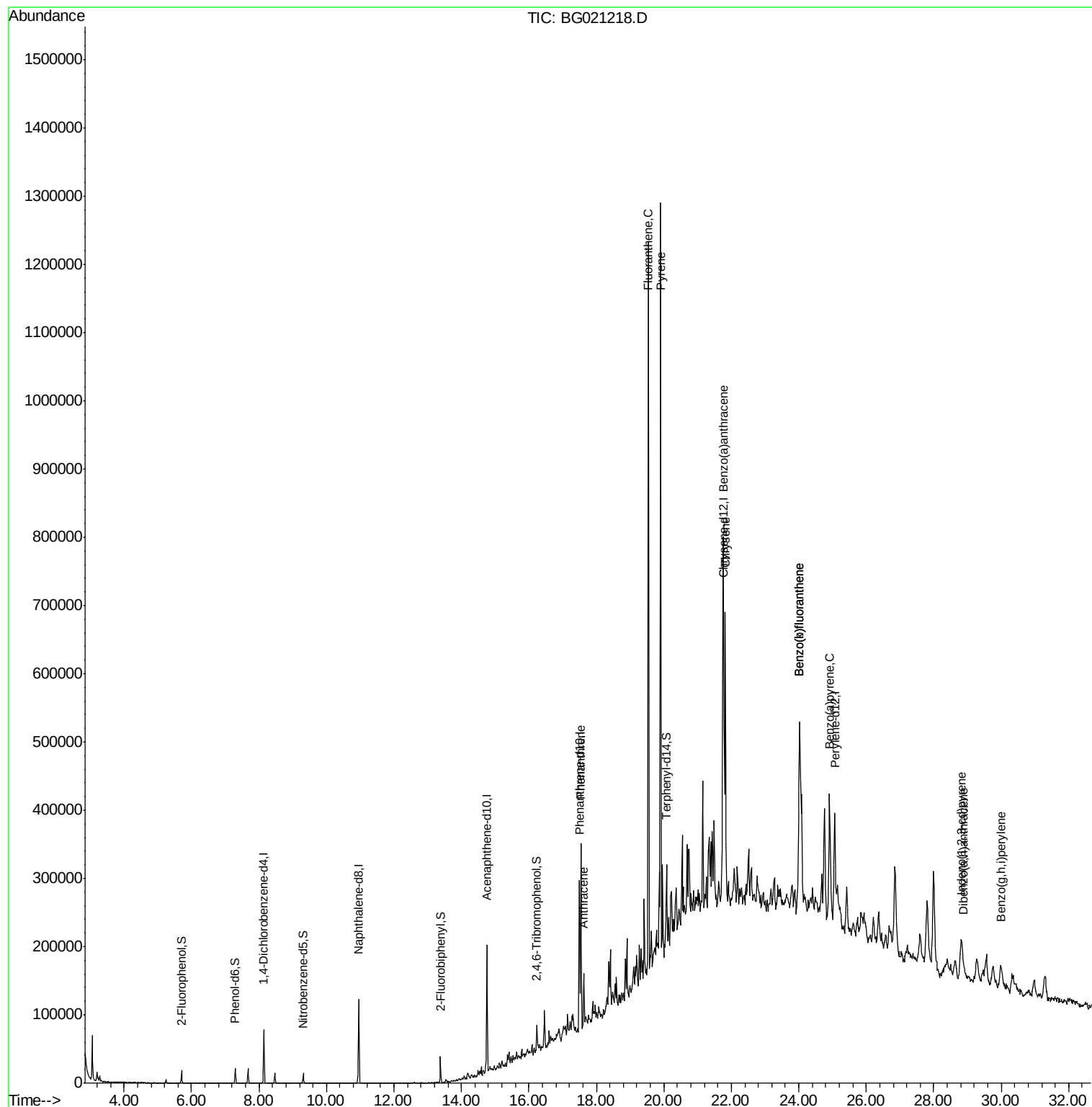
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	19816	20.00	ng	-0.01
21) Naphthalene-d8	10.95	136	100279	20.00	ng	-0.01
38) Acenaphthene-d10	14.75	164	57057	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	118801	20.00	ng	0.00
75) Chrysene-d12	21.78	240	135985	20.00	ng	0.00
86) Perylene-d12	25.07	264	127117	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.70	112	7883	6.32	ng	0.00
7) Phenol-d6	7.29	99	13300	6.49	ng	0.00
23) Nitrobenzene-d5	9.31	82	10030	4.23	ng	-0.01
41) 2,4,6-Tribromophenol	16.23	330	3570	6.01	ng	0.00
44) 2-Fluorobiphenyl	13.38	172	19338	4.81	ng	-0.01
78) Terphenyl-d14	20.09	244	27395	4.88	ng	0.00
Target Compounds						Qvalue
70) Phenanthrene	17.54	178	152637	23.81	ng	99
71) Anthracene	17.63	178	45393	6.92	ng	98
74) Fluoranthene	19.54	202	623894	82.83	ng	97
77) Pyrene	19.91	202	625357	77.09	ng	96
80) Benzo(a)anthracene	21.75	228	303595	37.71	ng	97
82) Chrysene	21.82	228	286076	37.50	ng	98
85) Indeno(1,2,3-cd)pyrene	28.82	276	96454	11.03	ng	# 93
87) Benzo(b)fluoranthene	24.03	252	339621	42.48	ng	95
88) Benzo(k)fluoranthene	24.03	252	339621	42.41	ng	94
89) Benzo(a)pyrene	24.91	252	177478	22.96	ng	# 90
90) Dibenzo(a,h)anthracene	28.87	278	27085	3.54	ng	# 91
91) Benzo(a,h,i)perylene	30.00	276	76173	10.31	ng	# 92

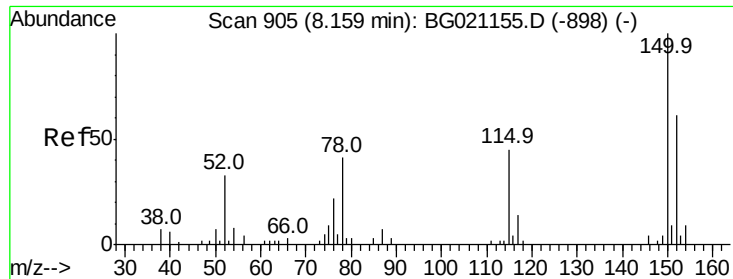
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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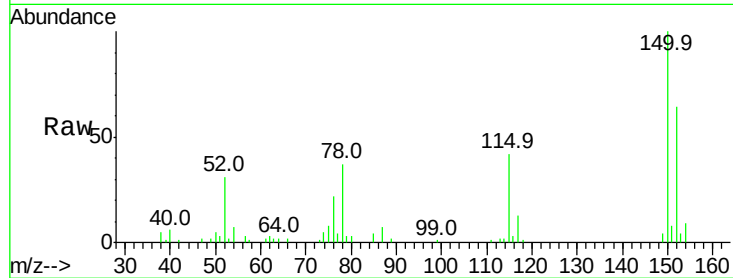


#1

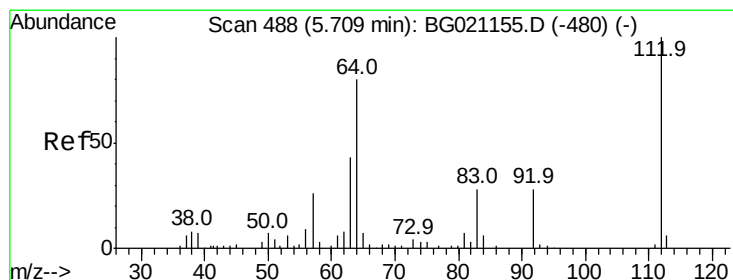
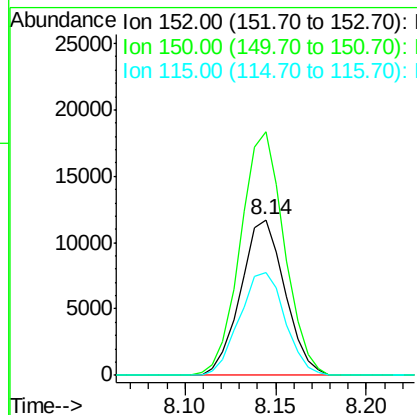
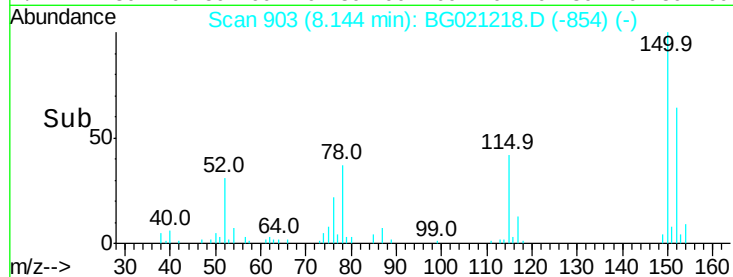
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.14 min Scan# 903
Delta R.T. -0.01 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Instrument :
BNA_G
ClientSampled :

Tot Ion:152 Resp: 19816
Ion Ratio Lower Upper
152 100
150 156.8 123.4 185.2
115 66.1 43.3 64.9#



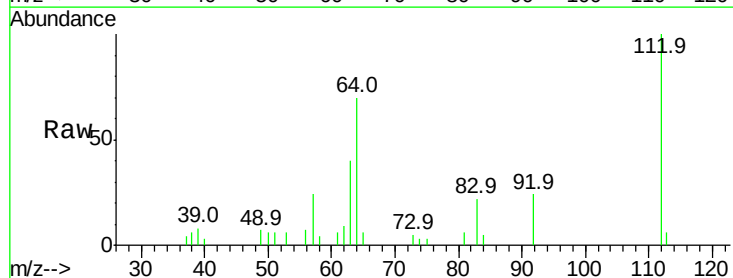
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



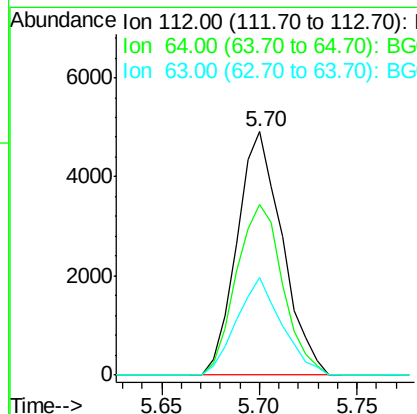
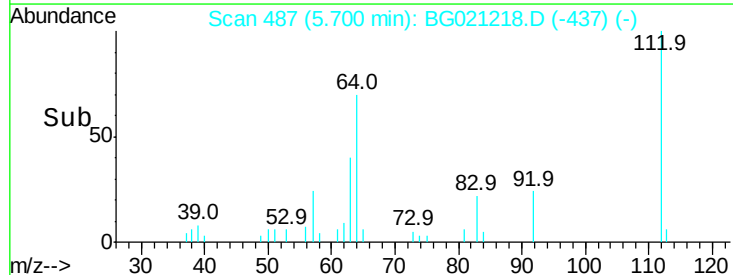
#5

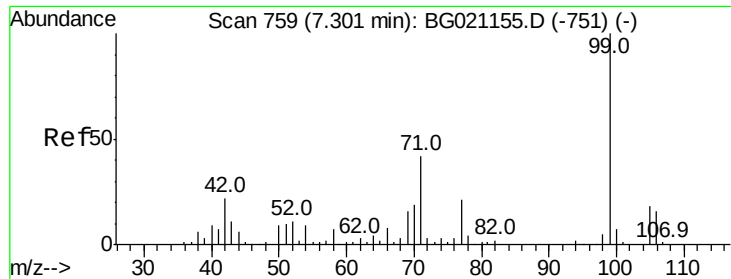
2-Fluorophenol
Concen: 6.32 ng
RT: 5.70 min Scan# 487
Delta R.T. -0.01 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Tgt Ion:112 Resp: 7883
Ion Ratio Lower Upper
112 100
64 70.3 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: 6.49 ng

RT: 7.29 min Scan# 758

Delta R.T. -0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Instrument :

BNA_G

ClientSampled :

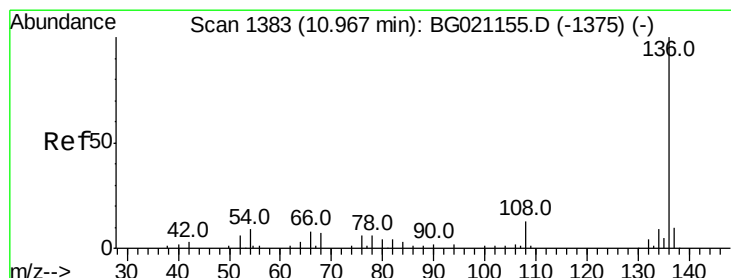
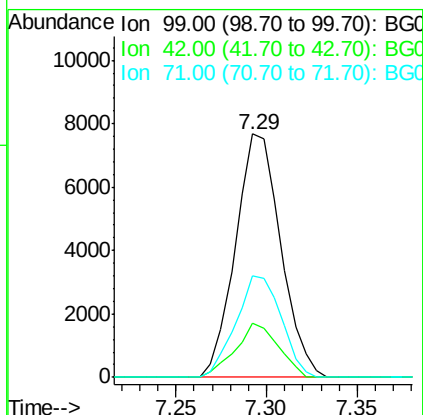
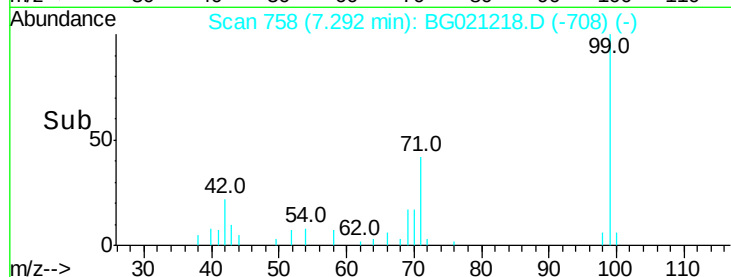
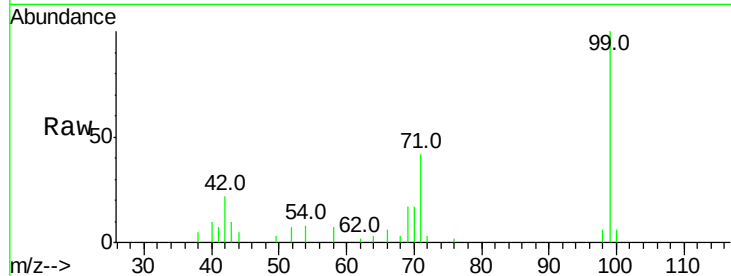
Tot Ion: 99 Resp: 13300

Ion Ratio Lower Upper

99 100

42 22.2 13.2 19.8#

71 41.5 25.2 37.8#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.95 min Scan# 1381

Delta R.T. -0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Tgt Ion: 136 Resp: 100279

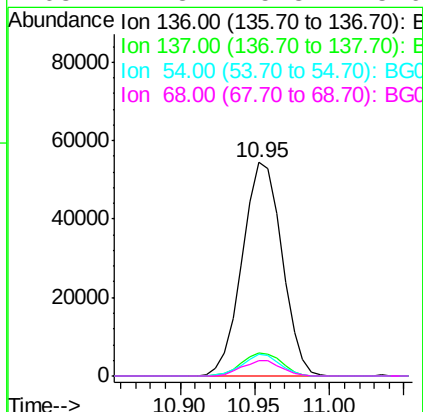
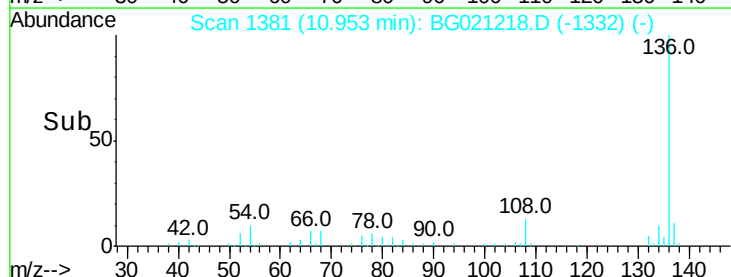
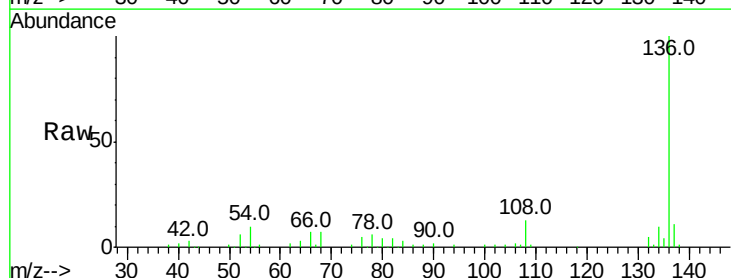
Ion Ratio Lower Upper

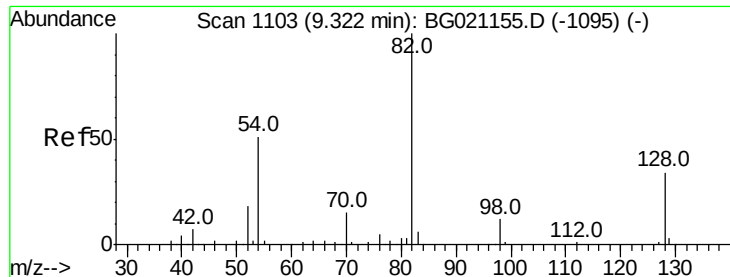
136 100

137 10.8 8.8 13.2

54 10.4 6.9 10.3#

68 7.3 5.8 8.6

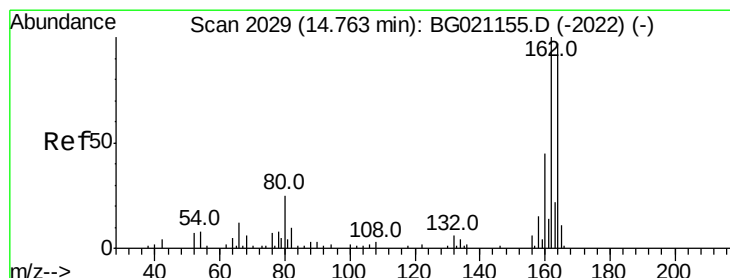
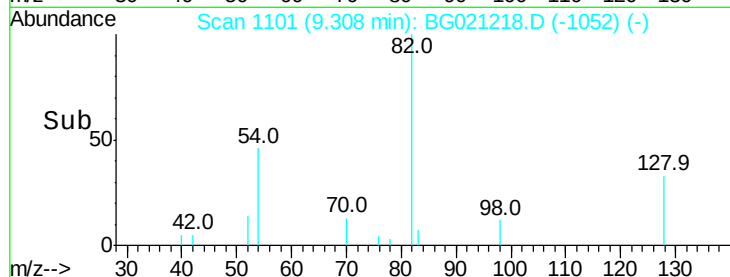
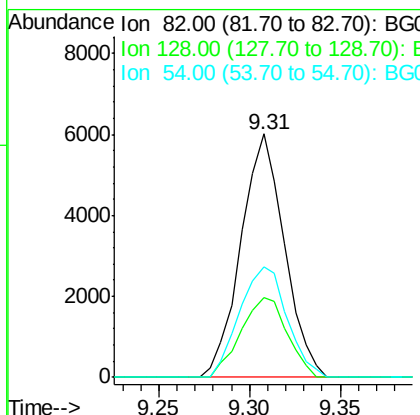
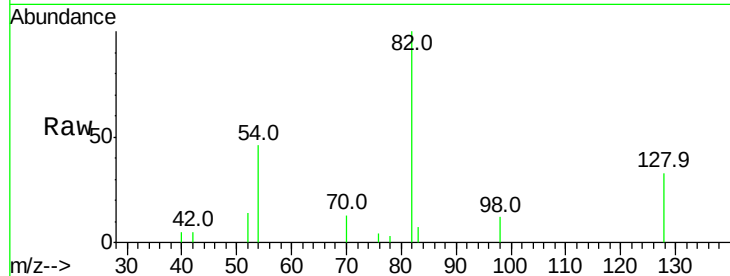




#23
 Nitrobenzene-d5
 Concen: 4.23 ng
 RT: 9.31 min Scan# 1101
 Delta R.T. -0.01 min
 Lab File: BG021218.D
 Acq: 2 Mar 2016 18:22

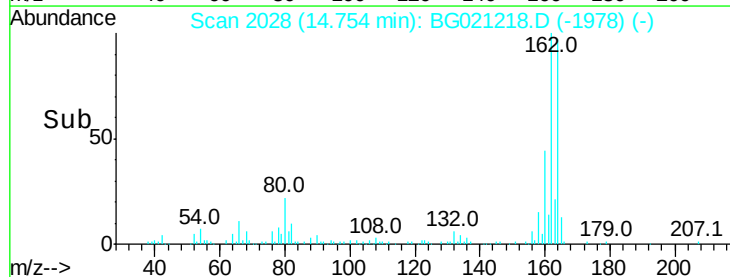
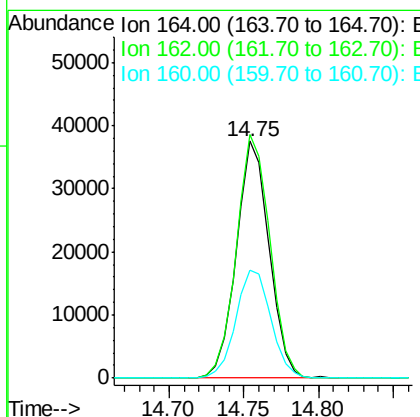
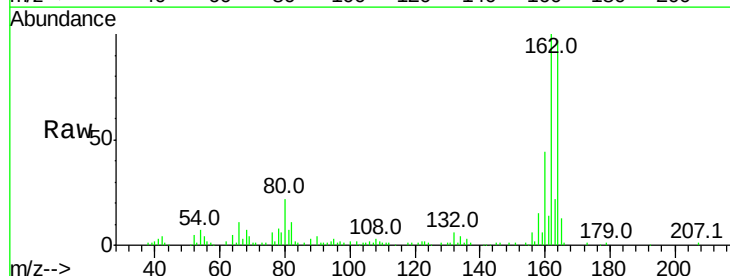
Instrument :
 BNA_G
 ClientSampleId :

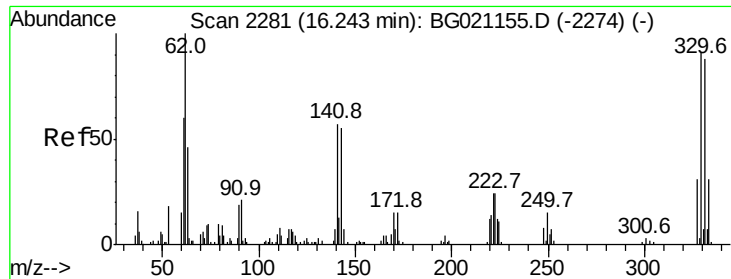
Tot Ion: 82 Resp: 10030
 Ion Ratio Lower Upper
 82 100
 128 32.6 36.3 54.5#
 54 45.6 37.6 56.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.75 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: BG021218.D
 Acq: 2 Mar 2016 18:22

Tgt Ion: 164 Resp: 57057
 Ion Ratio Lower Upper
 164 100
 162 102.8 80.6 120.8
 160 45.7 36.5 54.7

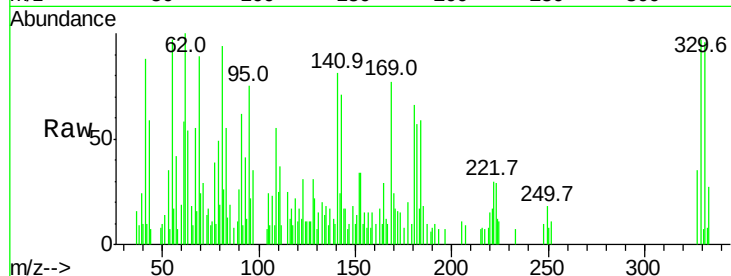




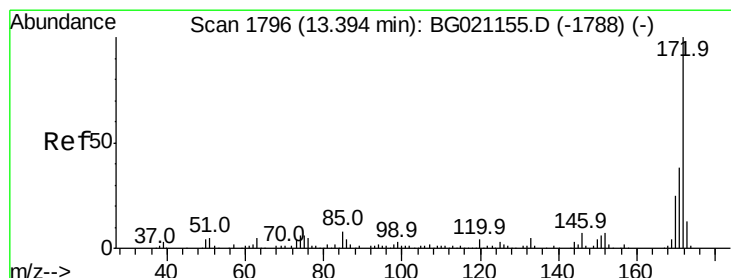
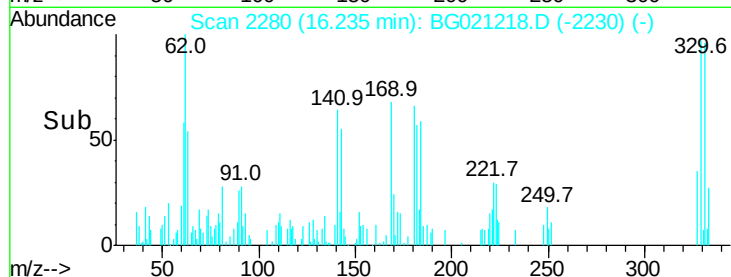
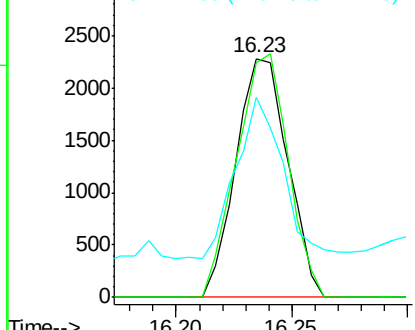
#41
 2,4,6-Tribromophenol
 Concen: 6.01 ng
 RT: 16.23 min Scan# 2280
 Delta R.T. -0.01 min
 Lab File: BG021218.D
 Acq: 2 Mar 2016 18:22

Instrument :
 BNA_G
 ClientSampleId :

Tot Ion:330 Resp: 3570
 Ion Ratio Lower Upper
 330 100
 332 101.4 77.4 116.0
 141 62.4 35.3 52.9#

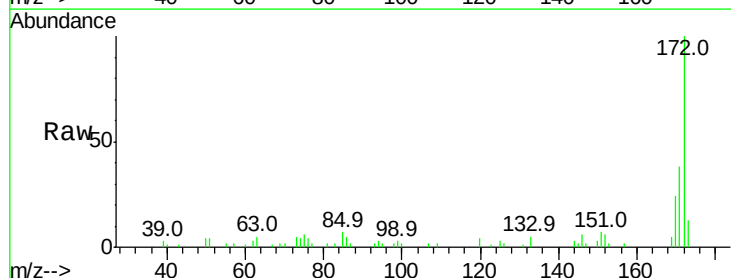


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

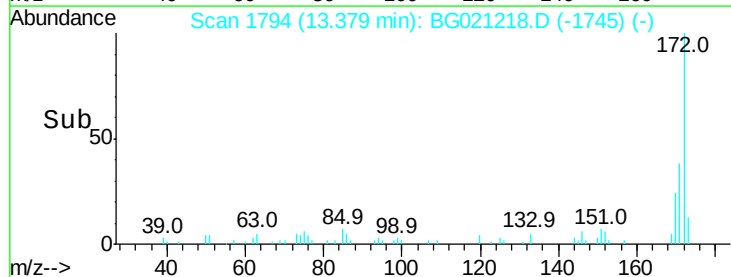
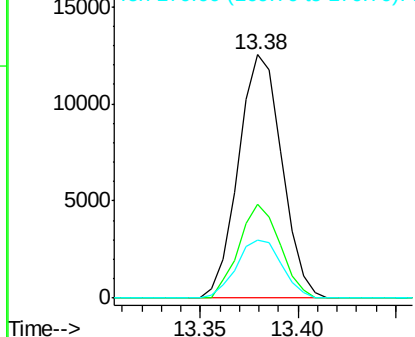


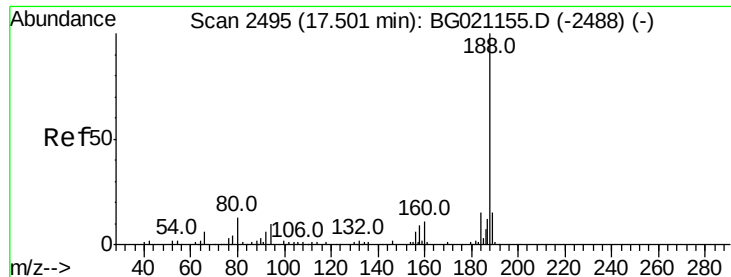
#44
 2-Fluorobiphenyl
 Concen: 4.81 ng
 RT: 13.38 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: BG021218.D
 Acq: 2 Mar 2016 18:22

Tgt Ion:172 Resp: 19338
 Ion Ratio Lower Upper
 172 100
 171 38.3 29.4 44.0
 170 23.6 19.8 29.8



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.50 min Scan# 2495

Delta R.T. -0.00 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Instrument :

BNA_G

ClientSampleId :

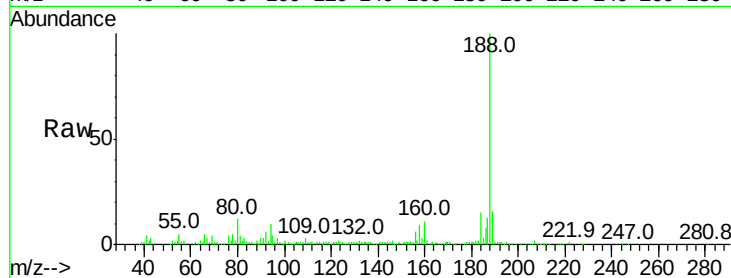
Tot Ion:188 Resp: 118801

Ion Ratio Lower Upper

188 100

94 9.9 8.2 12.4

80 12.1 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

100000

80000

60000

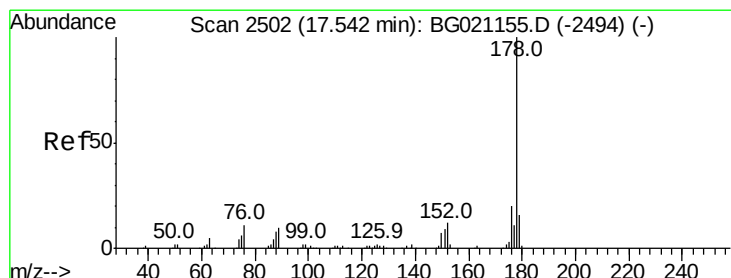
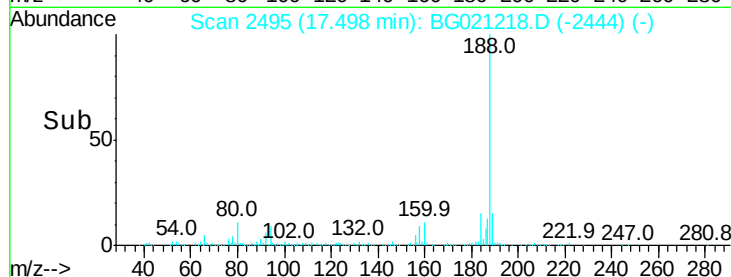
40000

20000

0

17.50

17.40 17.45 17.50 17.55



#70

Phenanthrene

Concen: 23.81 ng

RT: 17.54 min Scan# 2502

Delta R.T. -0.00 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

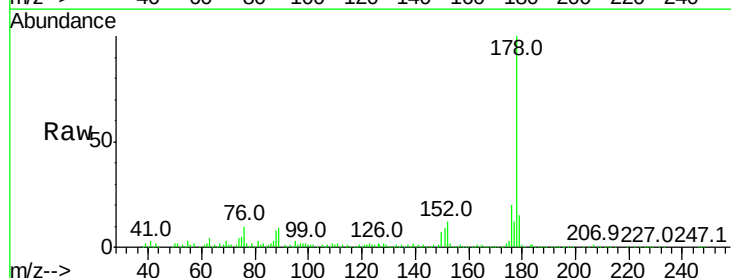
Tgt Ion:178 Resp: 152637

Ion Ratio Lower Upper

178 100

176 20.3 16.2 24.4

179 15.2 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

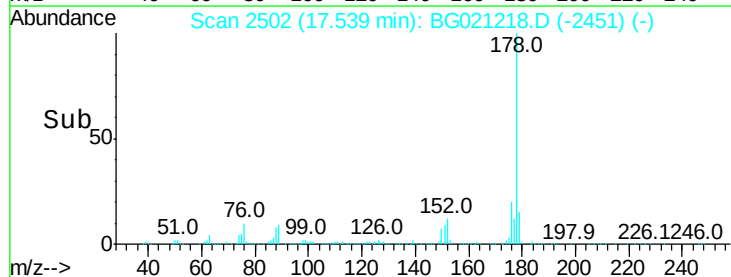
100000

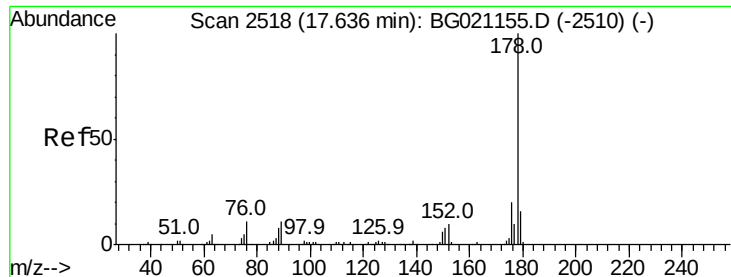
50000

0

17.54

17.50 17.55 17.60





#71

Anthracene

Concen: 6.92 ng

RT: 17.63 min Scan# 2517

Delta R.T. -0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Instrument :

BNA_G

ClientSampled :

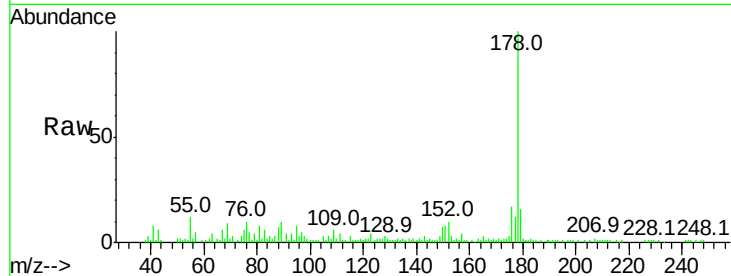
Tot Ion:178 Resp: 45393

Ion Ratio Lower Upper

178 100

176 16.7 14.8 22.2

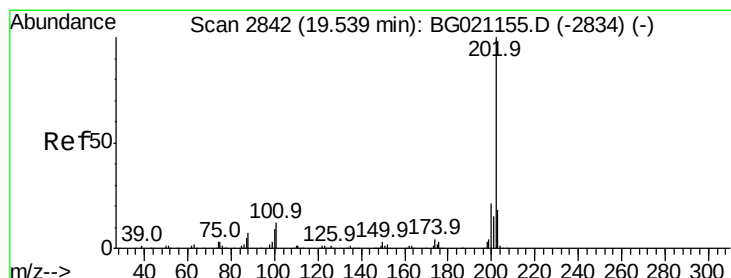
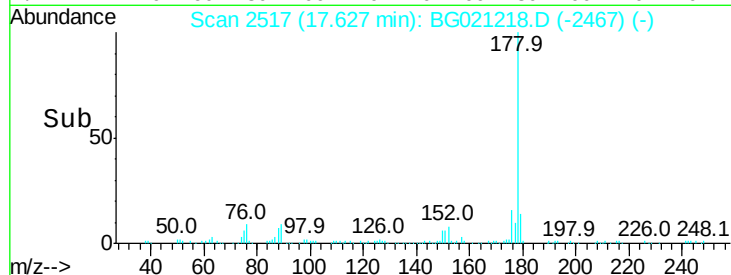
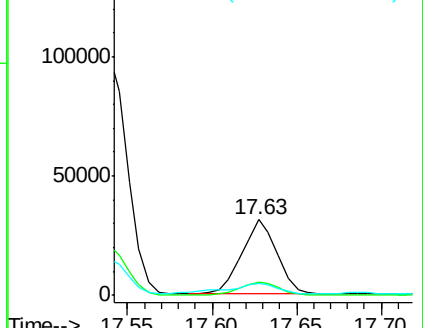
179 15.6 12.6 19.0



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: 82.83 ng

RT: 19.54 min Scan# 2843

Delta R.T. 0.00 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

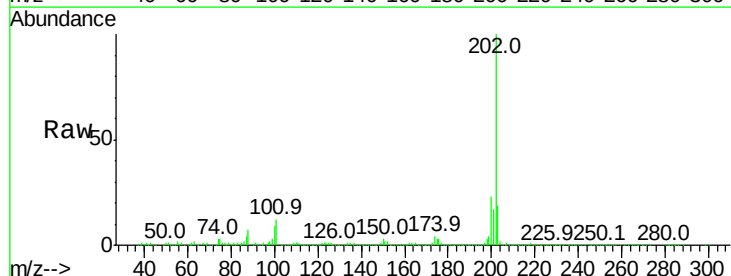
Tgt Ion:202 Resp: 623894

Ion Ratio Lower Upper

202 100

101 11.6 0.0 32.5

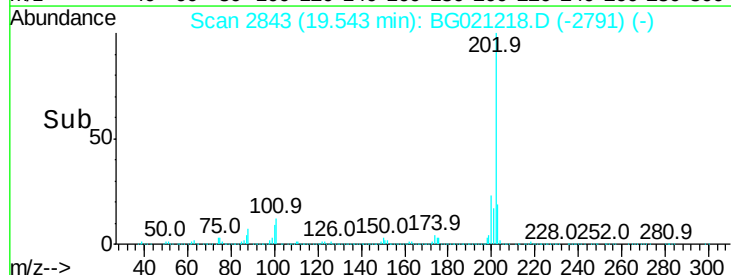
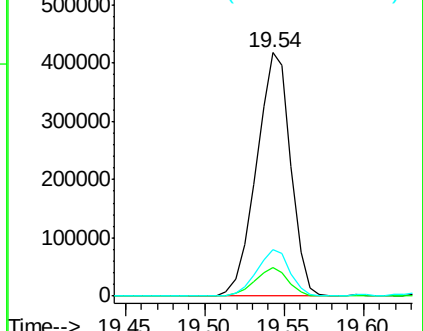
203 19.4 0.0 37.6

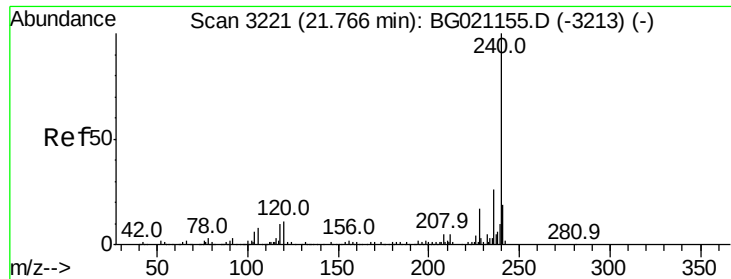


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.78 min Scan# 3223

Delta R.T. 0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Instrument :

BNA_G

ClientSampleId :

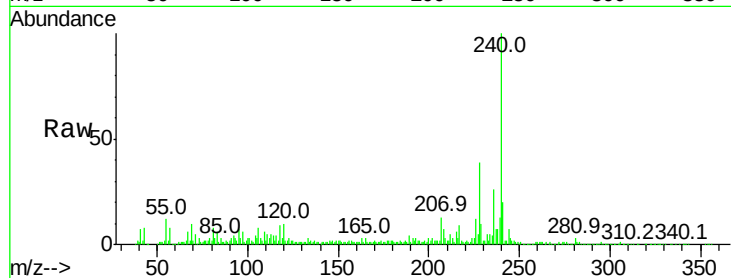
Tot Ion:240 Resp: 135985

Ion Ratio Lower Upper

240 100

120 10.0 7.5 11.3

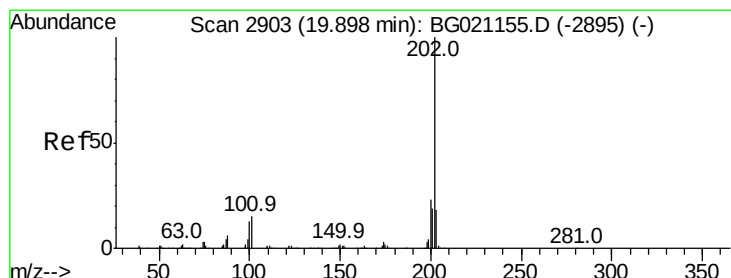
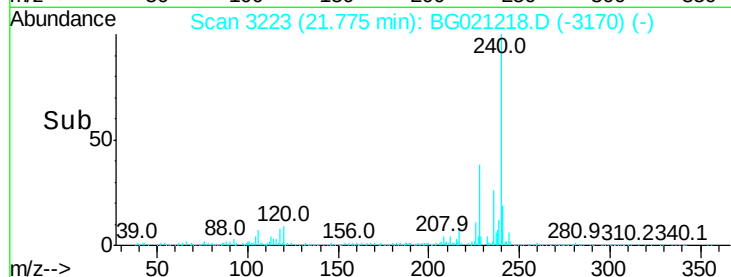
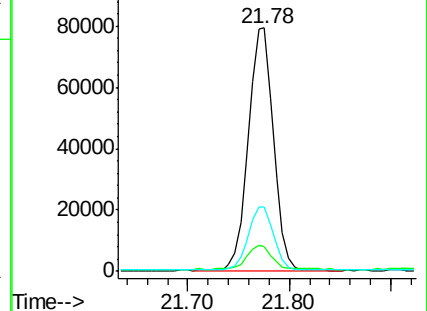
236 26.3 20.5 30.7



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: 77.09 ng

RT: 19.91 min Scan# 2905

Delta R.T. 0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

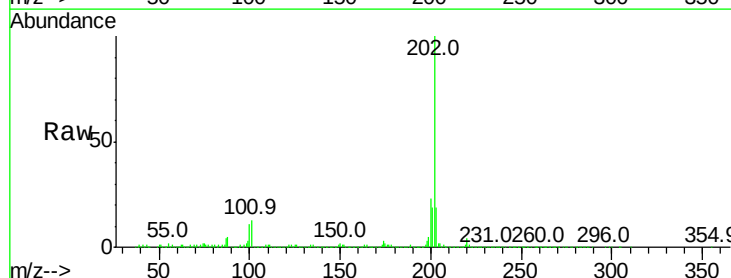
Tgt Ion:202 Resp: 625357

Ion Ratio Lower Upper

202 100

200 22.5 16.6 25.0

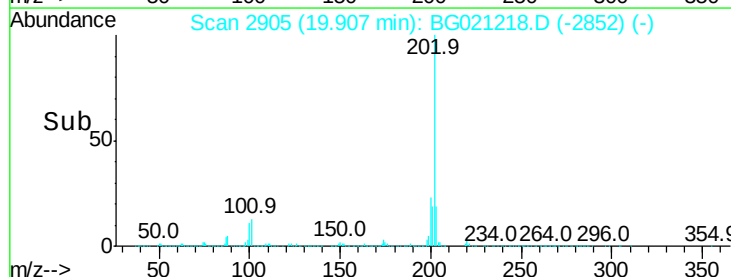
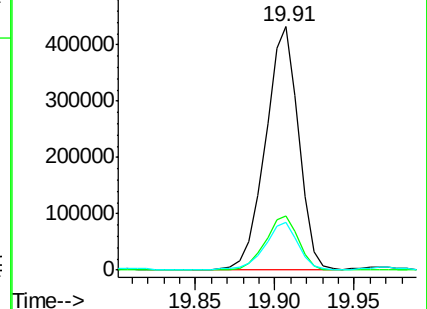
203 19.4 13.8 20.8

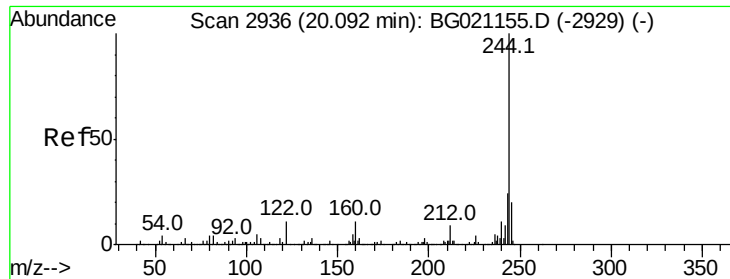


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.88 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.00 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

Instrument :

BNA_G

ClientSampleId :

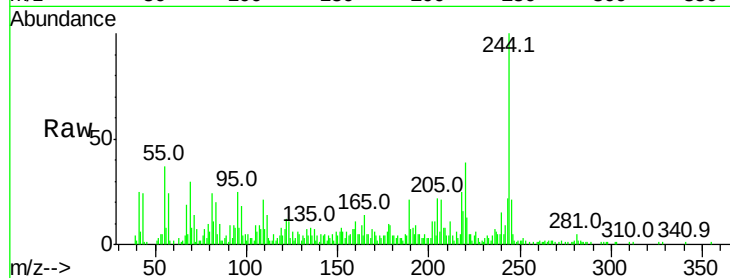
Tot Ion:244 Resp: 27395

Ion Ratio Lower Upper

244 100

212 10.6 5.8 8.6#

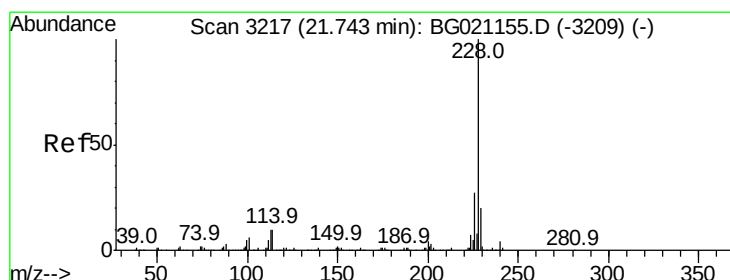
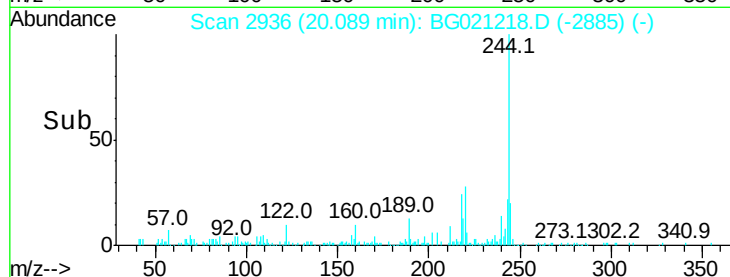
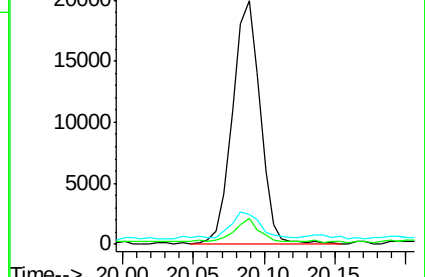
122 12.3 8.3 12.5



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: 37.71 ng

RT: 21.75 min Scan# 3219

Delta R.T. 0.01 min

Lab File: BG021218.D

Acq: 2 Mar 2016 18:22

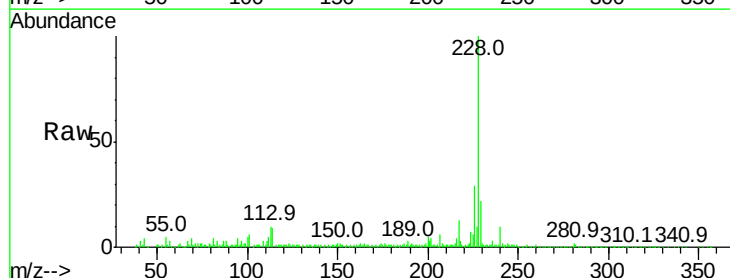
Tgt Ion:228 Resp: 303595

Ion Ratio Lower Upper

228 100

226 28.6 22.7 34.1

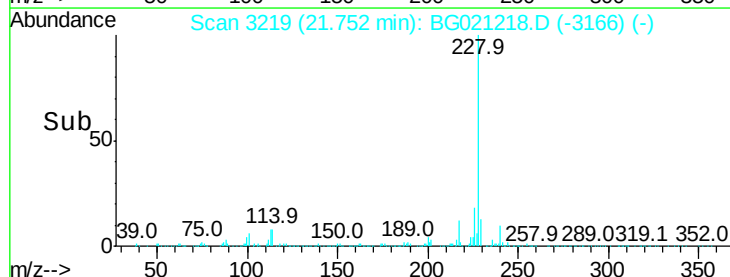
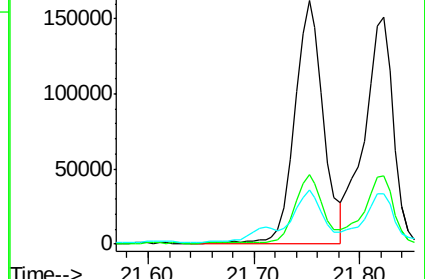
229 22.3 15.5 23.3

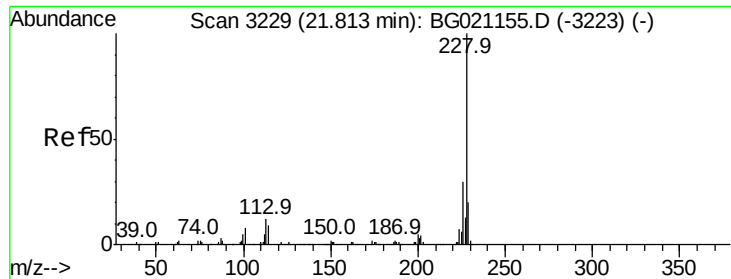


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

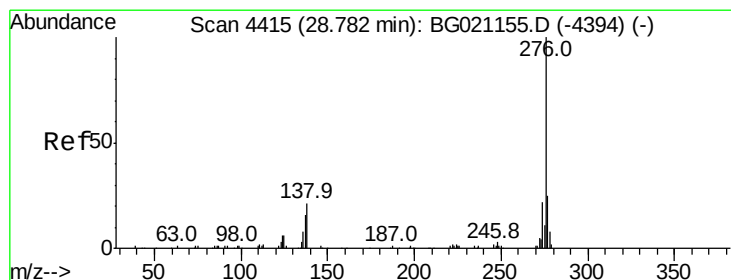
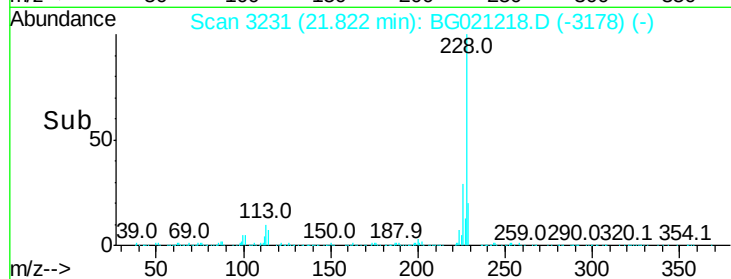
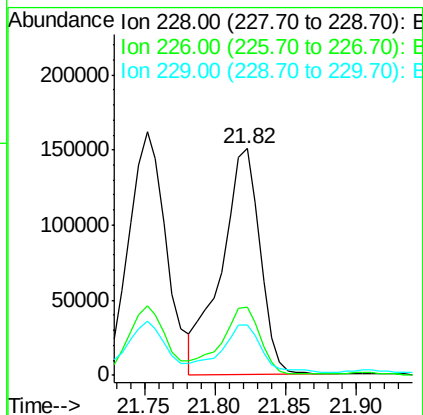
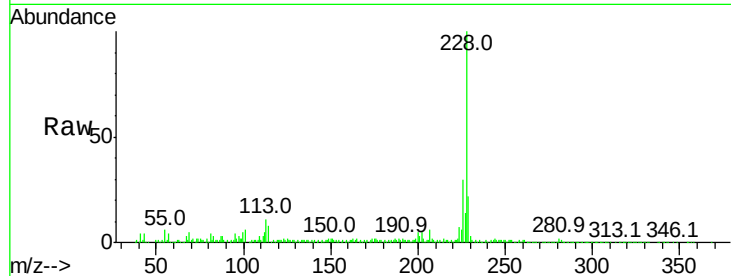




#82
Chrysene
Concen: 37.50 ng
RT: 21.82 min Scan# 3231
Delta R.T. 0.01 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

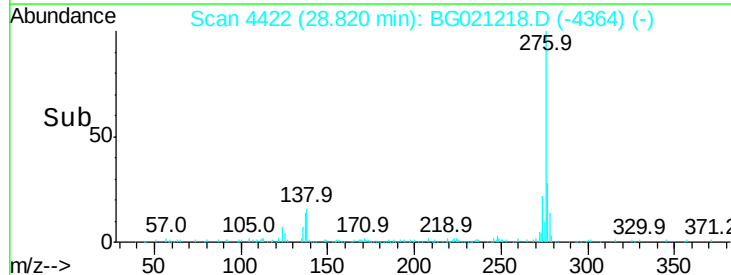
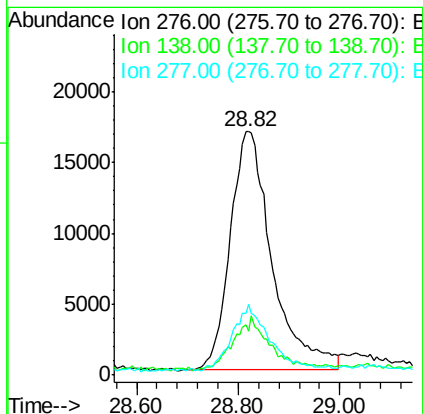
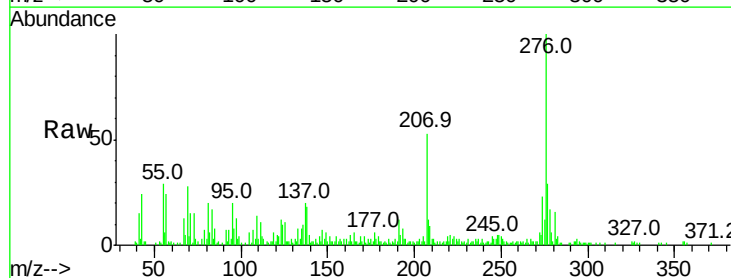
Instrument :
BNA_G
ClientSampleId :

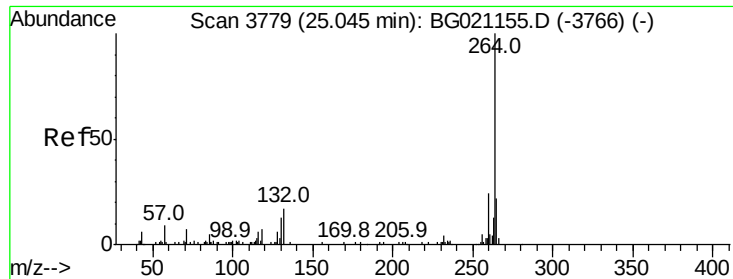
Tot Ion:228 Resp: 286076
Ion Ratio Lower Upper
228 100
226 30.4 23.7 35.5
229 22.4 16.7 25.1



#85
Indeno(1,2,3-cd)pyrene
Concen: 11.03 ng
RT: 28.82 min Scan# 4422
Delta R.T. 0.04 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Tgt Ion:276 Resp: 96454
Ion Ratio Lower Upper
276 100
138 17.7 16.0 24.0
277 24.5 16.0 24.0#

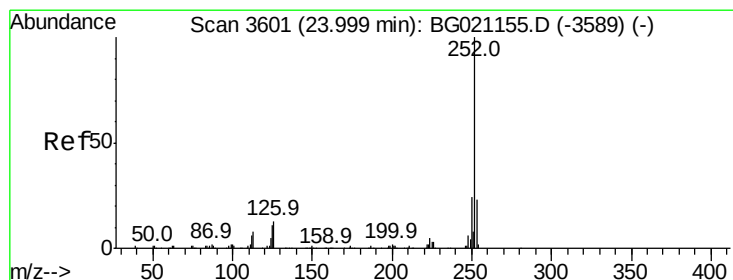
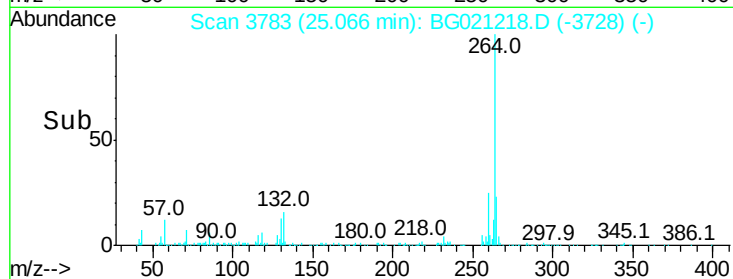
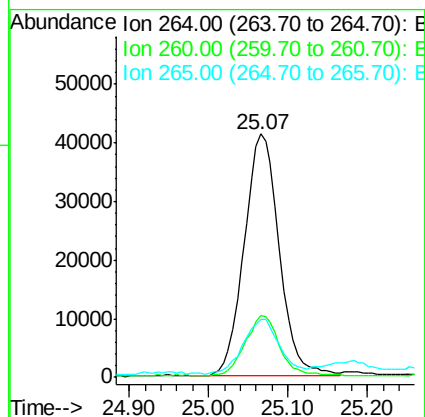
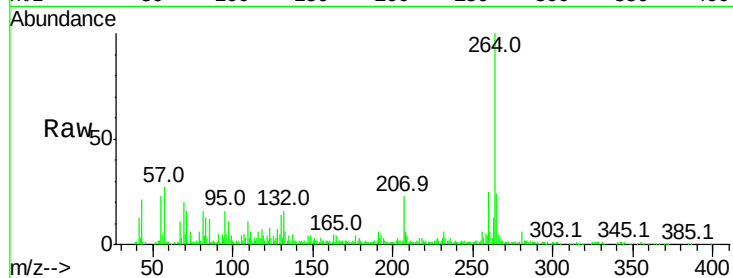




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.07 min Scan# 3783
Delta R.T. 0.02 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

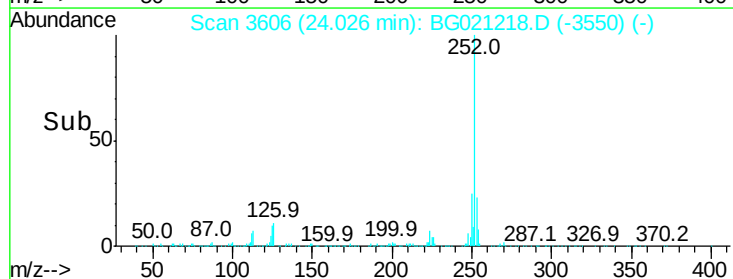
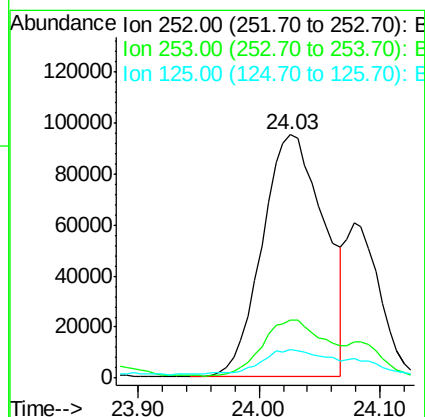
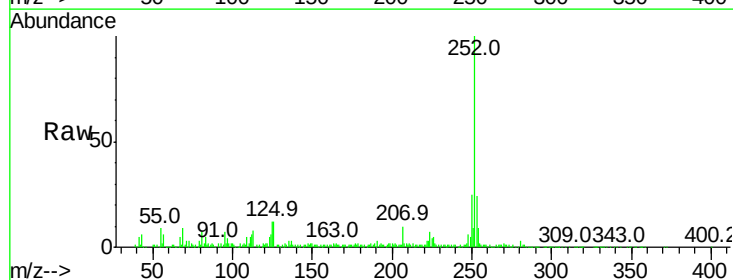
Instrument :
BNA_G
ClientSampled :

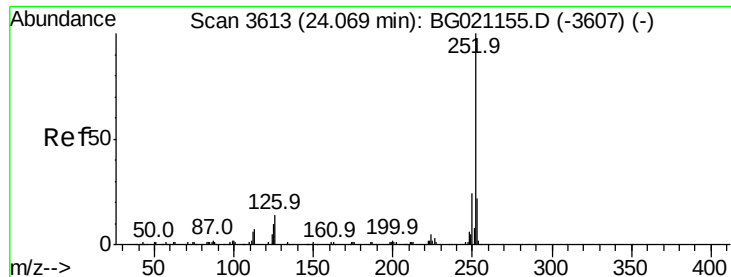
Tot Ion:264 Resp: 127117
Ion Ratio Lower Upper
264 100
260 25.4 18.5 27.7
265 23.7 18.6 28.0



#87
Benzo(b)fluoranthene
Concen: 42.48 ng
RT: 24.03 min Scan# 3606
Delta R.T. 0.03 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Tgt Ion:252 Resp: 339621
Ion Ratio Lower Upper
252 100
253 23.8 16.8 25.2
125 11.7 8.2 12.2

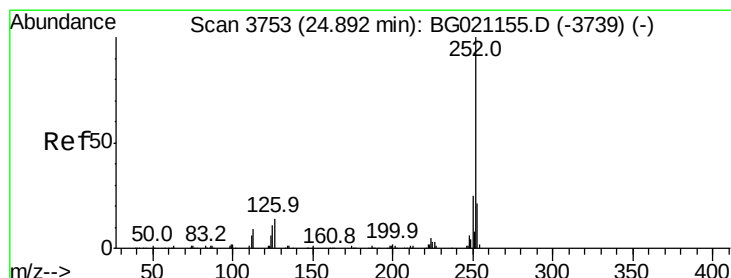
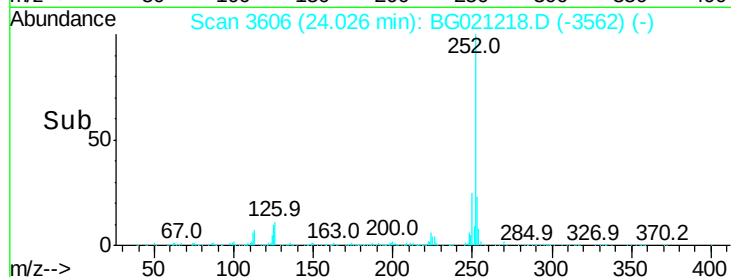
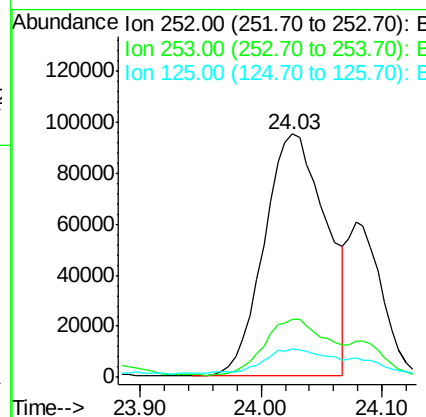
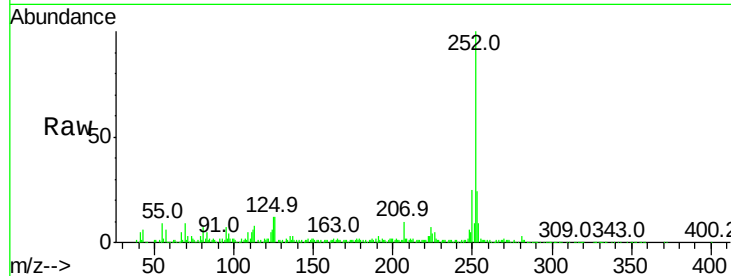




#88
Benzo(k)fluoranthene
Concen: 42.41 ng
RT: 24.03 min Scan# 3606
Delta R.T. -0.04 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

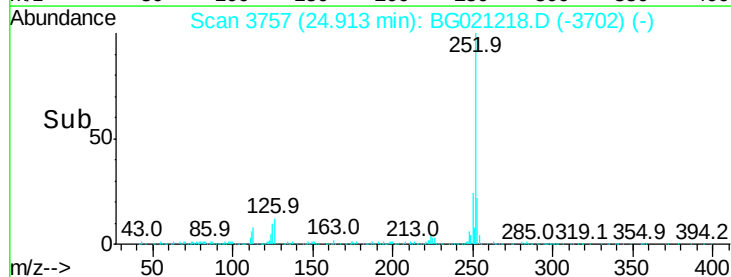
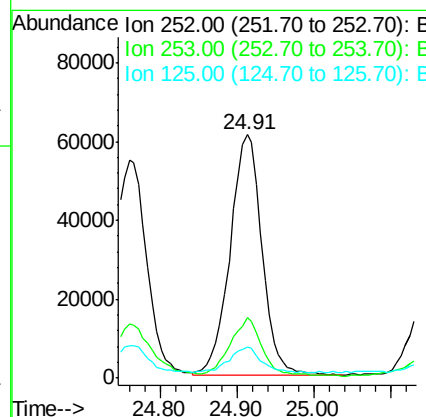
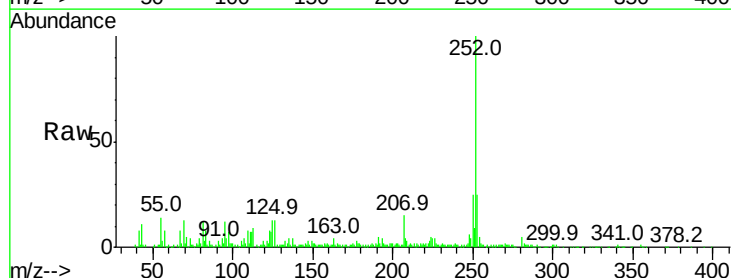
Instrument :
BNA_G
ClientSampleId :

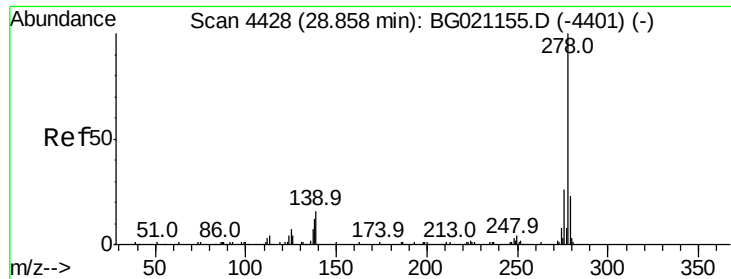
Tot Ion:252 Resp: 339621
Ion Ratio Lower Upper
252 100
253 23.8 16.4 24.6
125 11.7 8.2 12.2



#89
Benzo(a)pyrene
Concen: 22.96 ng
RT: 24.91 min Scan# 3757
Delta R.T. 0.02 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Tgt Ion:252 Resp: 177478
Ion Ratio Lower Upper
252 100
253 24.9 15.8 23.8#
125 12.9 8.4 12.6#



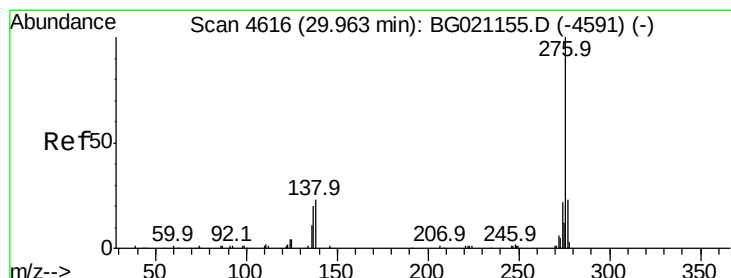
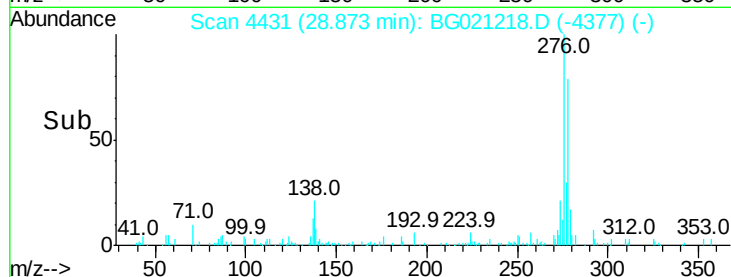
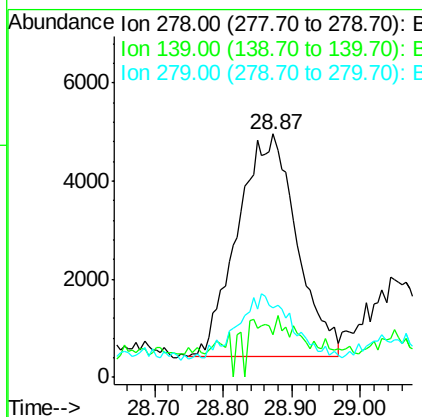
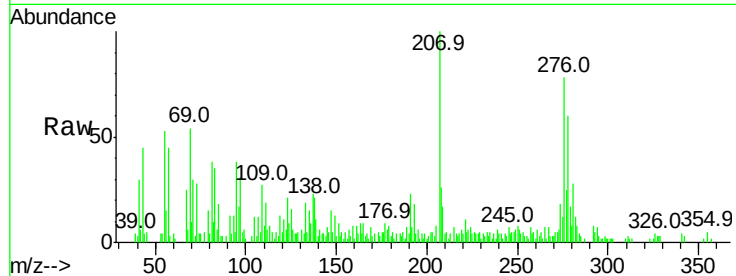


#90
Dibenzo(a,h)anthracene
Concen: 3.54 ng
RT: 28.87 min Scan# 4431
Delta R.T. 0.02 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Instrument :
BNA_G
ClientSampleId :

Tot Ion:278 Resp: 27085

Ion	Ratio	Lower	Upper
278	100		
139	17.7	10.6	15.8#
279	28.7	19.7	29.5



#91
Benzo(g,h,i)perylene
Concen: 10.31 ng
RT: 30.00 min Scan# 4623
Delta R.T. 0.04 min
Lab File: BG021218.D
Acq: 2 Mar 2016 18:22

Tgt Ion:276 Resp: 76173

Ion	Ratio	Lower	Upper
276	100		
277	24.6	16.6	25.0
138	21.9	14.6	21.8#

