

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012318\
 Data File : BF102386.D
 Acq On : 24 Jan 2018 12:26
 Operator : SJ/JU
 Sample : J1214-02DL2 20X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 24 13:26:45 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 23 00:43:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	133148	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	545677	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	231035	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	334840	20.00	ng	0.00
75) Chrysene-d12	13.87	240	237519	20.00	ng	0.00
86) Perylene-d12	15.29	264	243700	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	48848	5.56	ng	0.00
7) Phenol-d6	6.35	99	60520	5.72	ng	0.00
23) Nitrobenzene-d5	7.27	82	33556	3.53	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	8450	3.69	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	41296	2.63	ng	-0.01
78) Terphenyl-d14	12.82	244	25885	2.46	ng	0.00

Target Compounds

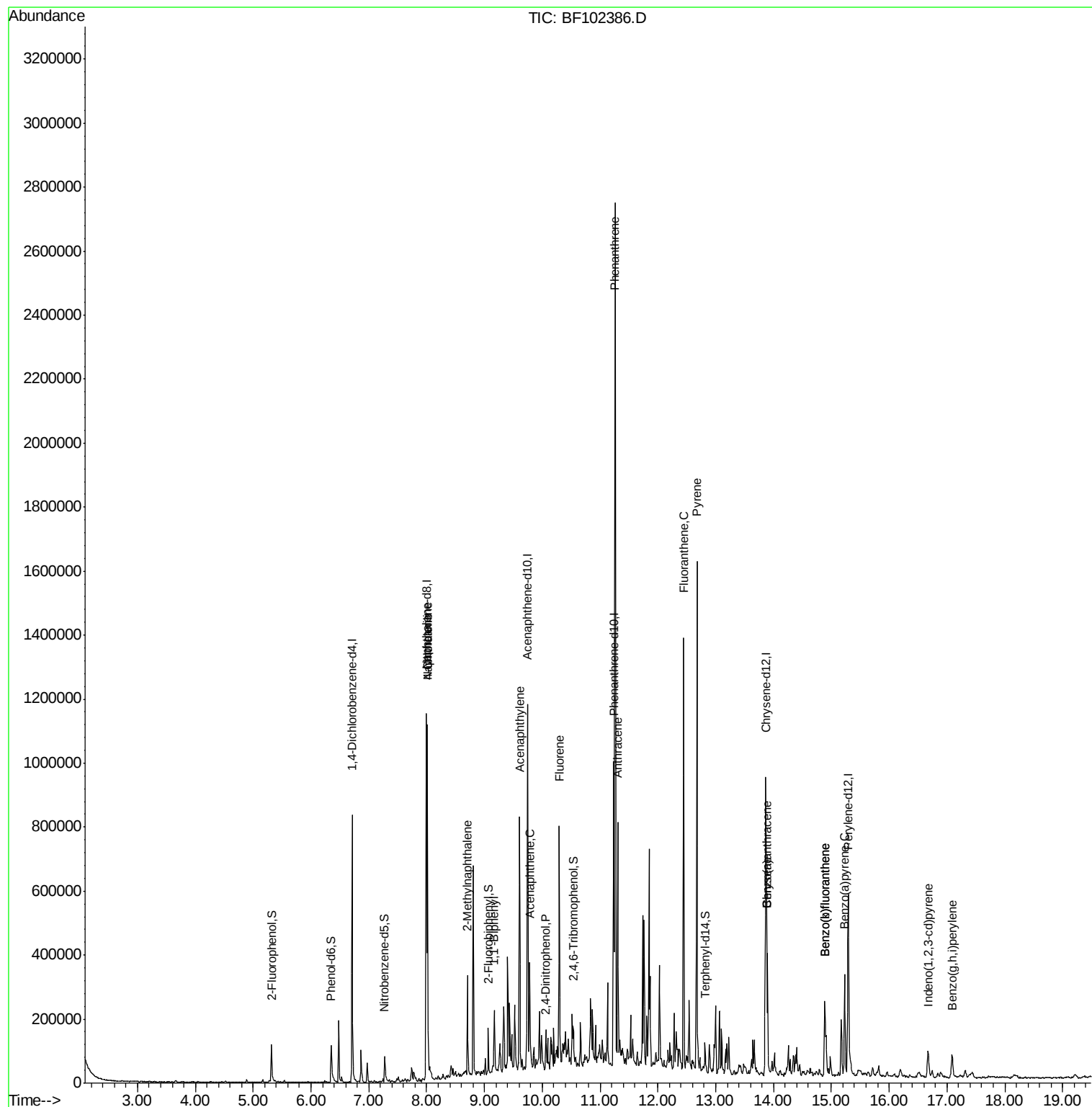
						Qvalue
31) Naphthalene	8.02	128	464162	17.037	ng	100
33) 4-Chloroaniline	8.02	127	60524	5.283	ng	# 34
37) 2-Methylnaphthalene	8.71	142	93717	5.165	ng	97
45) 1,1'-Biphenyl	9.17	154	65928	3.191	ng	98
48) Acenaphthylene	9.61	152	274146	10.959	ng	99
51) Acenaphthene	9.78	154	60798	4.161	ng	99
53) 2,4-Dinitrophenol	10.05	184	135	3.765	ng	# 29
57) Fluorene	10.29	166	210138	13.412	ng	99
70) Phenanthrene	11.26	178	1055694	54.105	ng	98
71) Anthracene	11.31	178	298635	14.995	ng	99
74) Fluoranthene	12.45	202	477905	24.019	ng	98
77) Pyrene	12.67	202	614137	33.442	ng	99
80) Benzo(a)anthracene	13.90	228	151662	10.371	ng	96
82) Chrysene	13.90	228	151662	10.213	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	50697	4.134	ng	99
87) Benzo(b)fluoranthene	14.89	252	173494	10.984	ng	98
88) Benzo(k)fluoranthene	14.89	252	173494	11.626	ng	97
89) Benzo(a)pyrene	15.23	252	132654	9.312	ng	99
91) Benzo(a,h,i)perylene	17.09	276	59178	5.194	ng	97

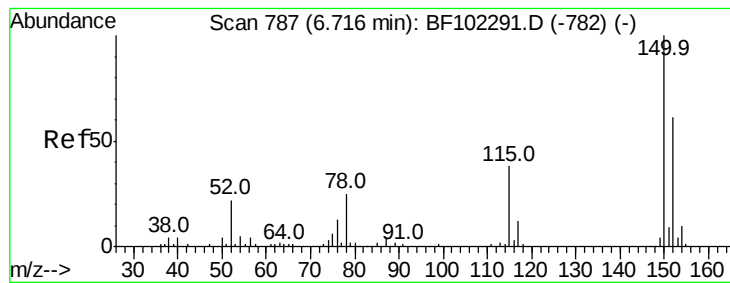
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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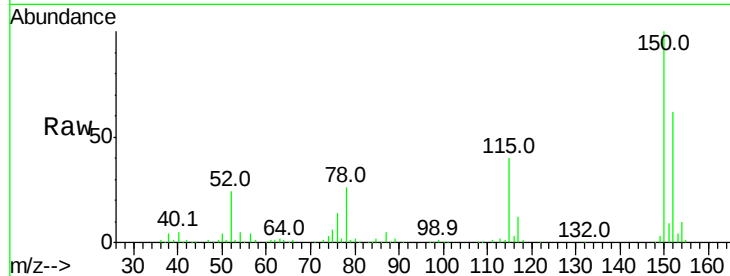


#1

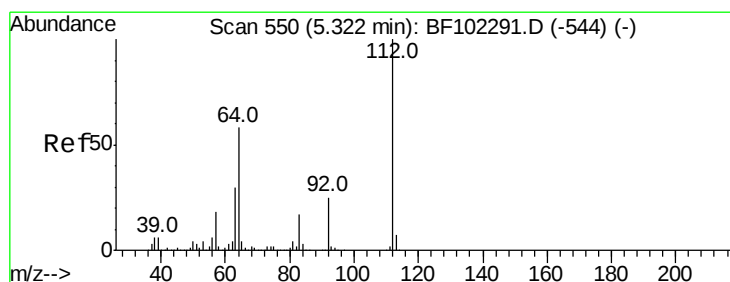
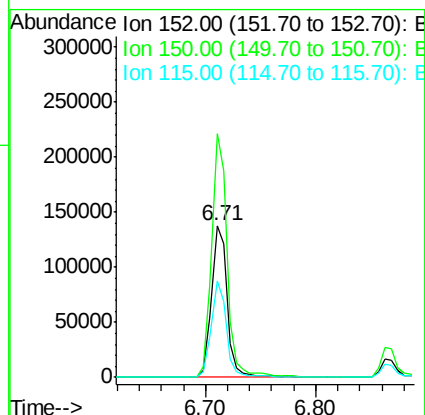
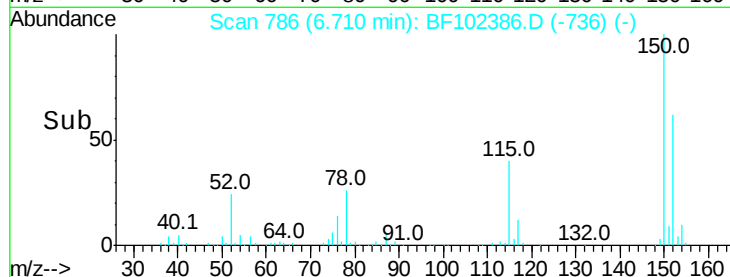
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.71 min Scan# 786
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 133148
 Ion Ratio Lower Upper
 152 100
 150 160.1 124.6 186.8
 115 63.8 50.1 75.1



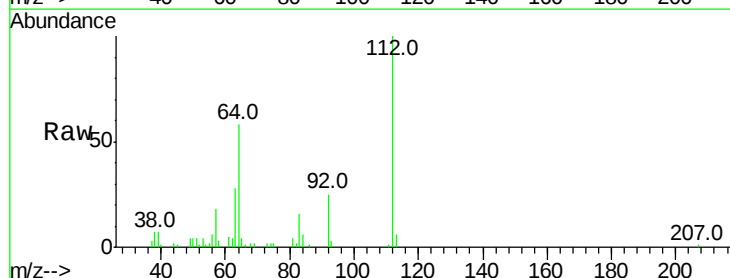
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



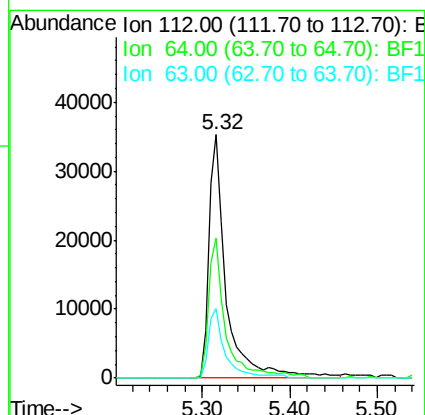
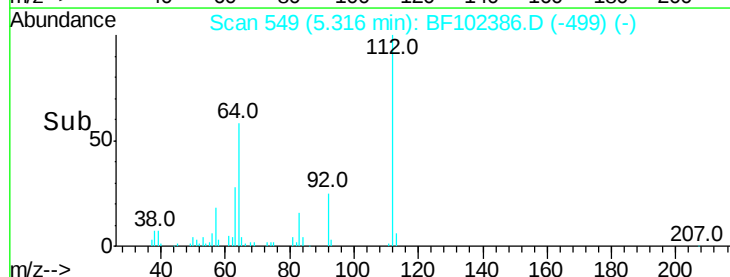
#5

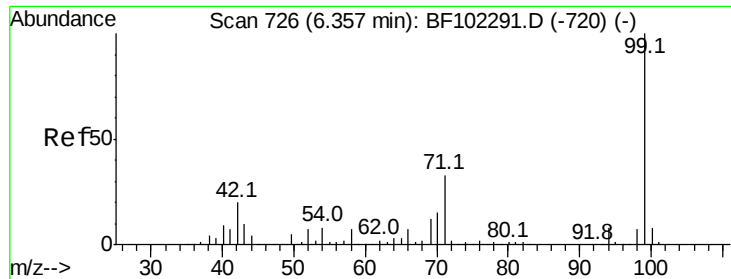
2-Fluorophenol
 Concen: 5.563 ng
 RT: 5.32 min Scan# 549
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Tgt Ion:112 Resp: 48848
 Ion Ratio Lower Upper
 112 100
 64 57.7 47.9 71.9
 63 28.4 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 5.717 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampleId :

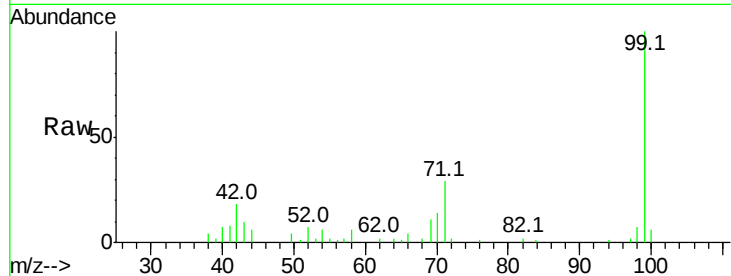
Tot Ion: 99 Resp: 60520

Ion Ratio Lower Upper

99 100

42 18.3 14.5 21.7

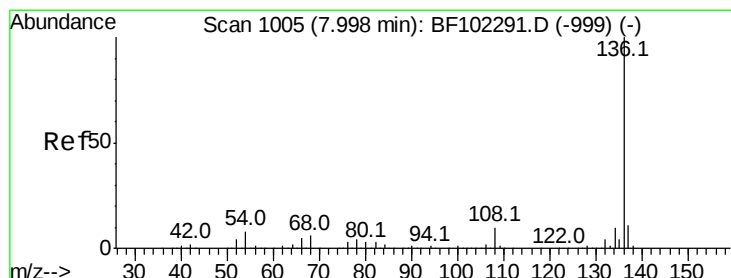
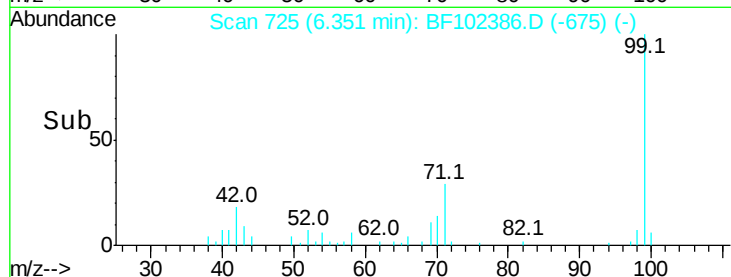
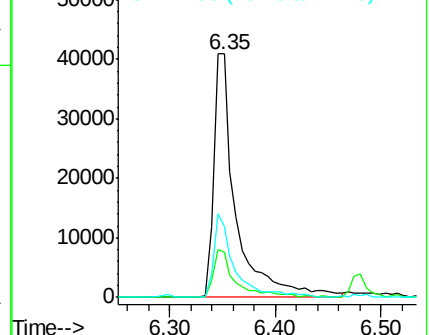
71 29.3 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Tgt Ion: 136 Resp: 545677

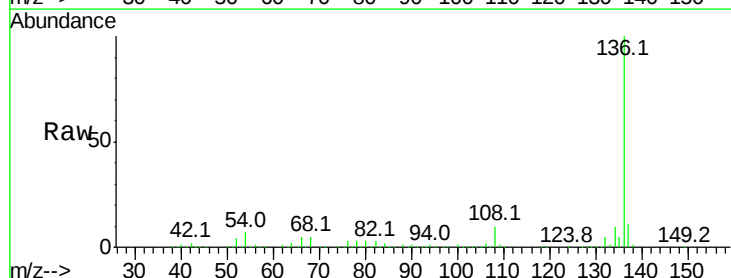
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.4 6.6 9.8

68 5.3 5.0 7.4

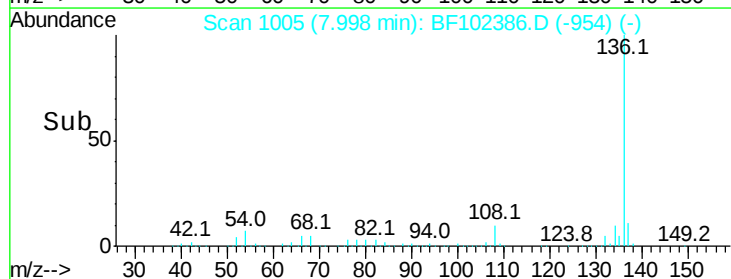
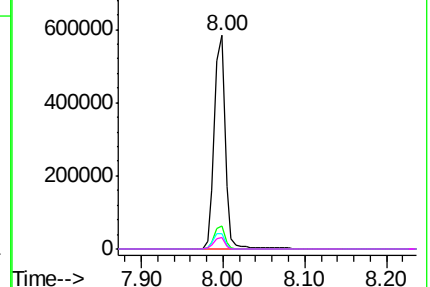


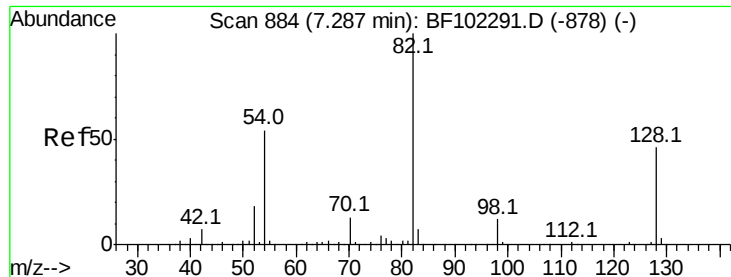
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

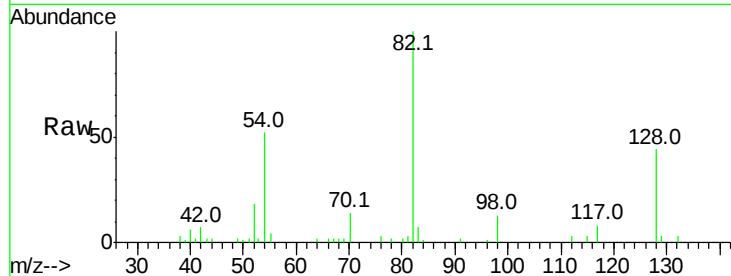




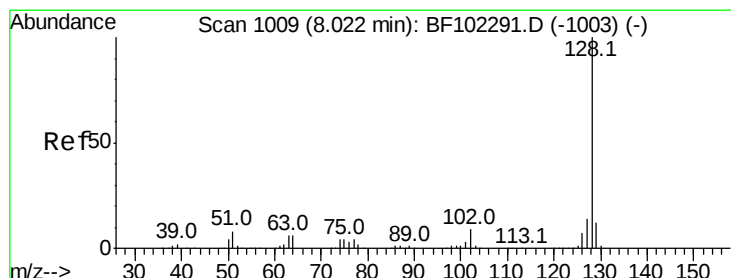
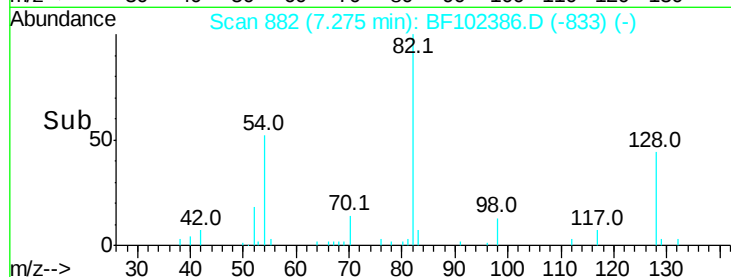
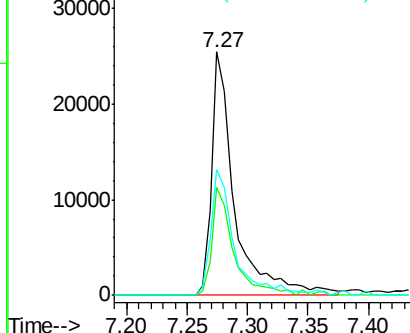
#23
Nitrobenzene-d5
Concen: 3.534 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 33556
Ion Ratio Lower Upper
82 100
128 44.2 36.1 54.1
54 51.8 41.4 62.2

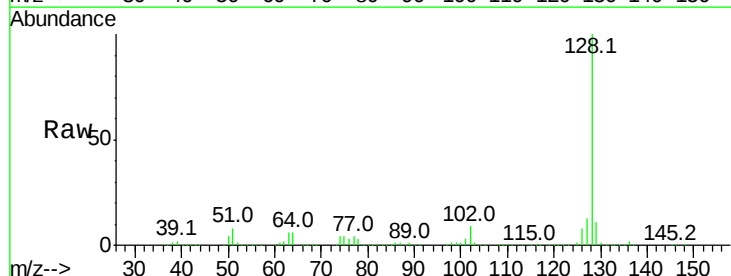


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

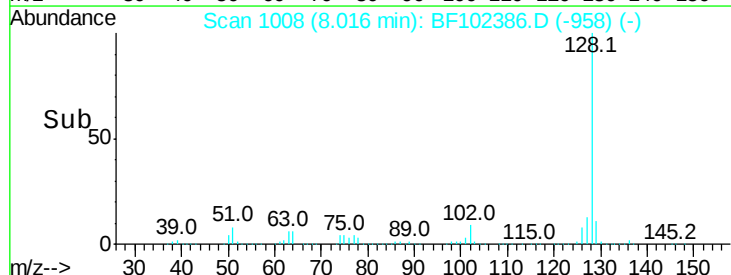
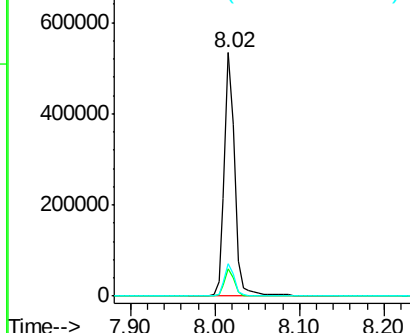


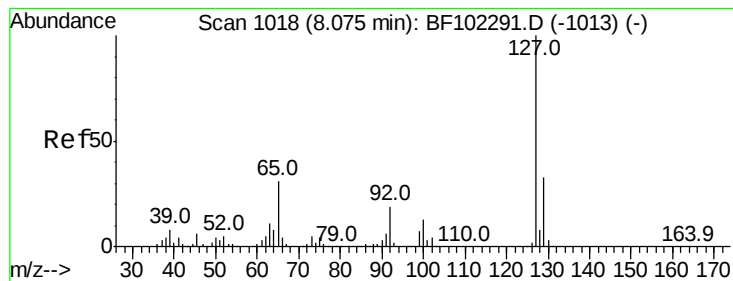
#31
Naphthalene
Concen: 17.037 ng
RT: 8.02 min Scan# 1008
Delta R.T. -0.01 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

Tgt Ion: 128 Resp: 464162
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 13.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): BF1
Ion 129.00 (128.70 to 129.70): BF1
Ion 127.00 (126.70 to 127.70): BF1





#33

4-Chloroaniline

Concen: 5.283 ng

RT: 8.02 min Scan# 1008

Delta R.T. -0.06 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampleId :

Tot Ion:127 Resp: 60524

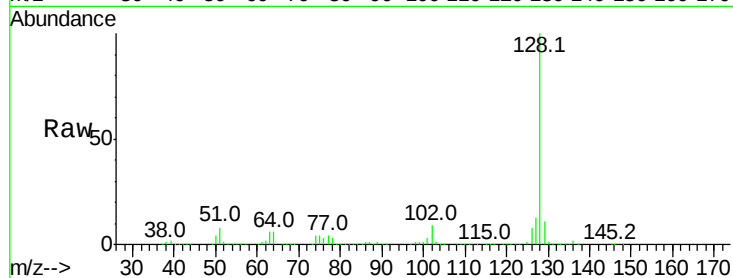
Ion Ratio Lower Upper

127 100

129 82.0 25.9 38.9#

65 0.0 25.0 37.4#

92 0.0 15.2 22.8#

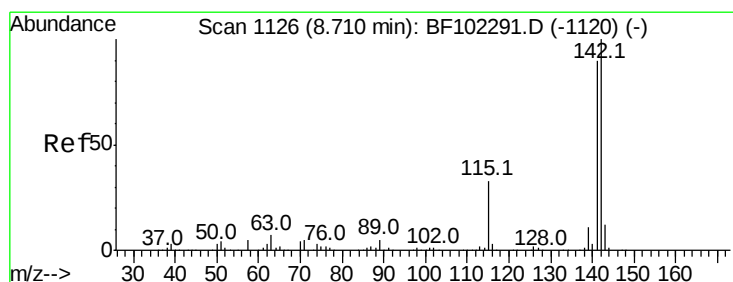
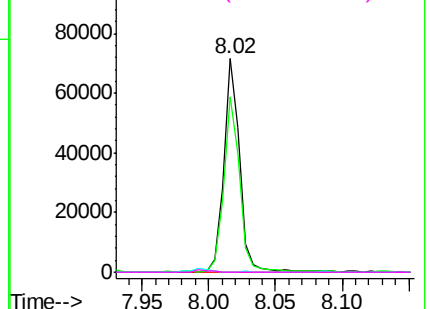
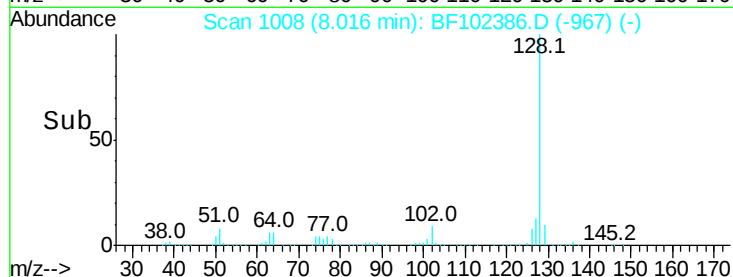


Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1



#37

2-Methylnaphthalene

Concen: 5.165 ng

RT: 8.71 min Scan# 1126

Delta R.T. -0.00 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

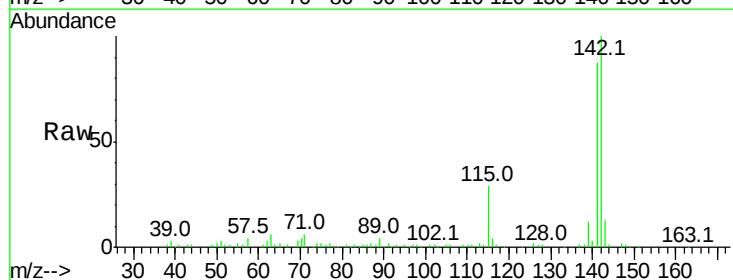
Tgt Ion:142 Resp: 93717

Ion Ratio Lower Upper

142 100

141 86.9 70.8 106.2

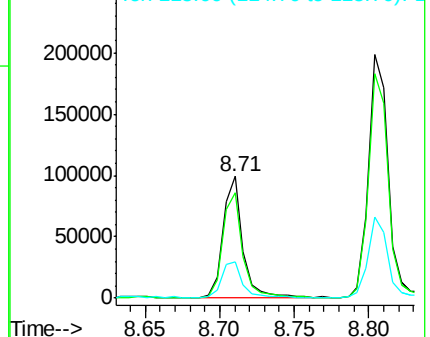
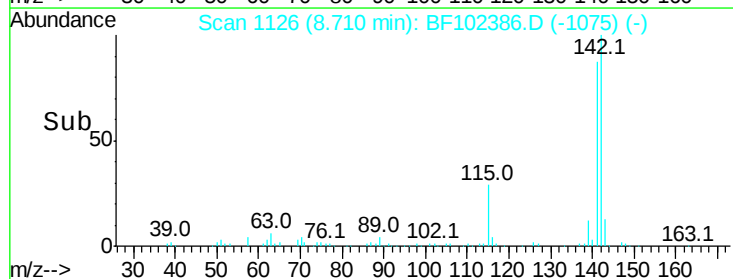
115 29.3 26.1 39.1

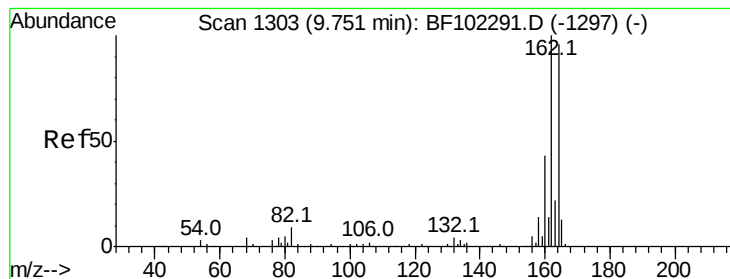


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampleId :

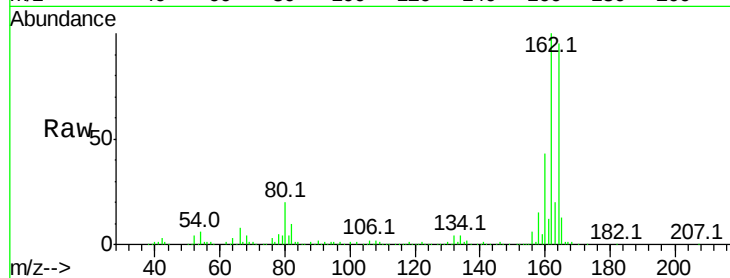
Tot Ion:164 Resp: 231035

Ion Ratio Lower Upper

164 100

162 105.5 86.1 129.1

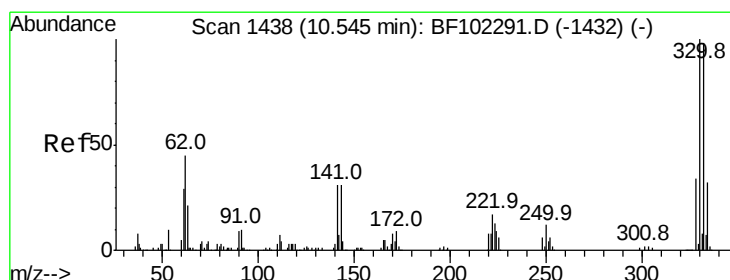
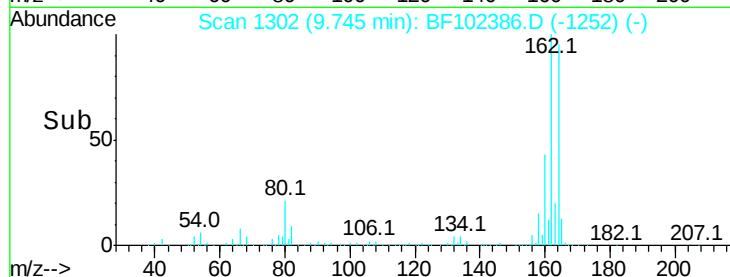
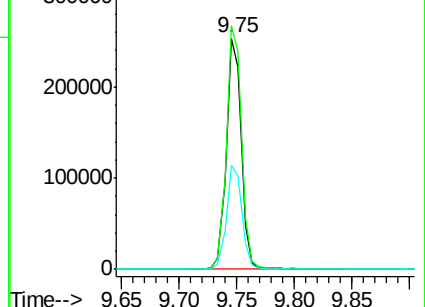
160 45.3 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 3.691 ng

RT: 10.54 min Scan# 1437

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

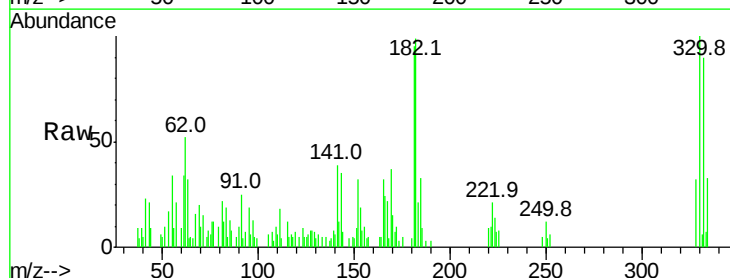
Tgt Ion:330 Resp: 8450

Ion Ratio Lower Upper

330 100

332 97.0 77.0 115.6

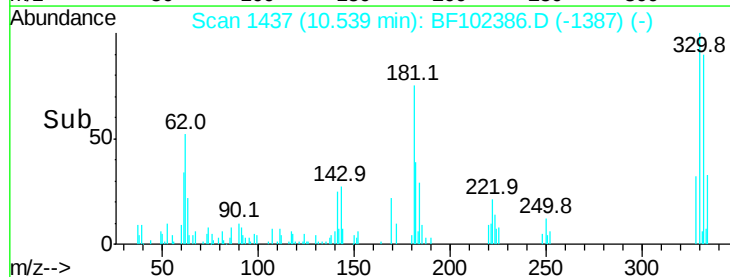
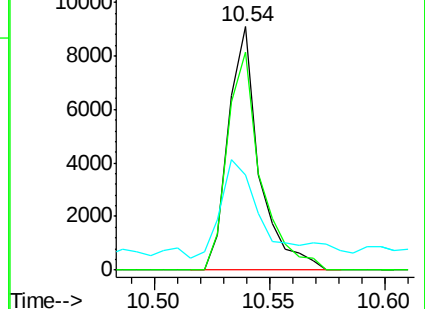
141 54.9 29.9 44.9#

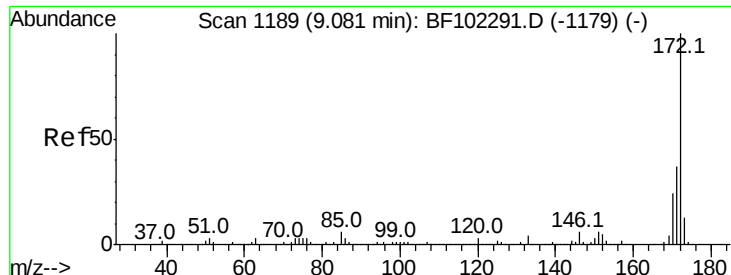


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

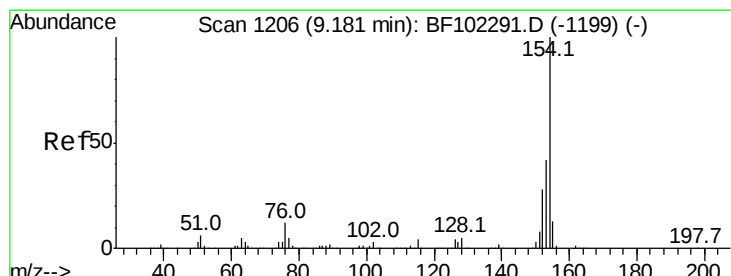
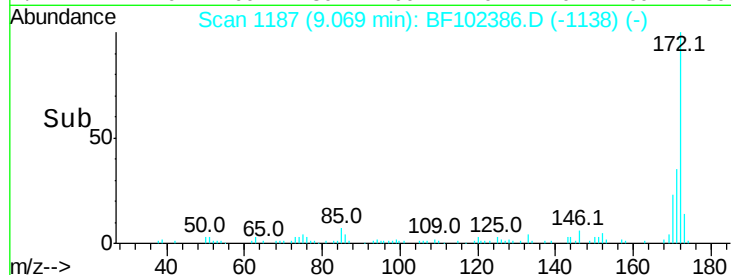
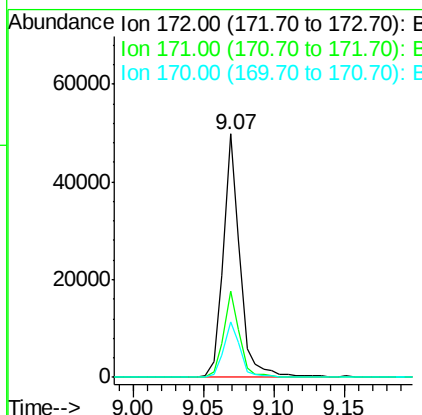
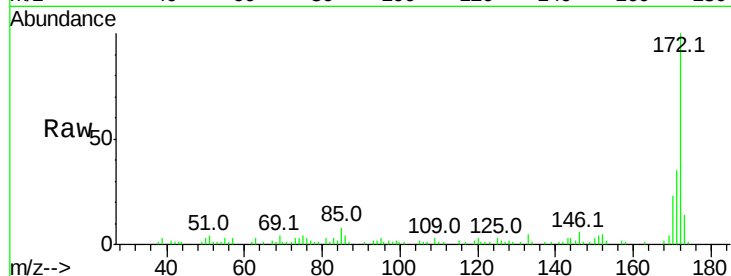




#44
 2-Fluorobiphenyl
 Concen: 2.628 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

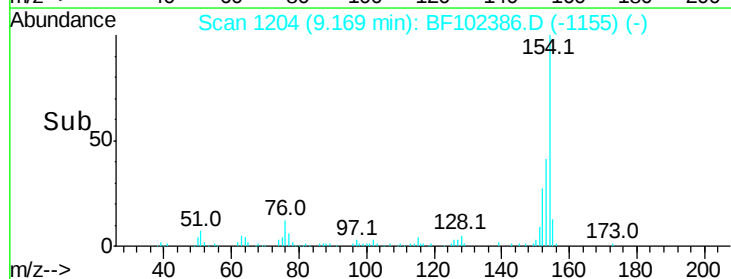
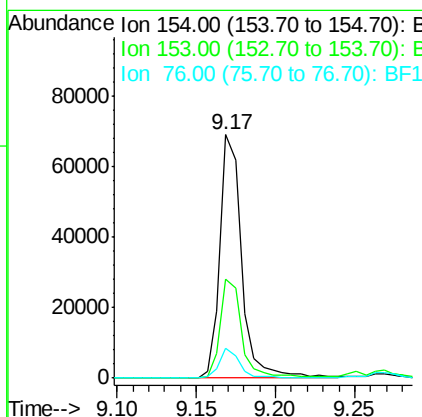
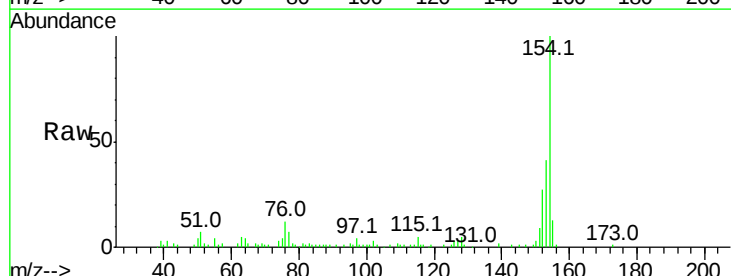
Instrument :
 BNA_F
 ClientSampleId :

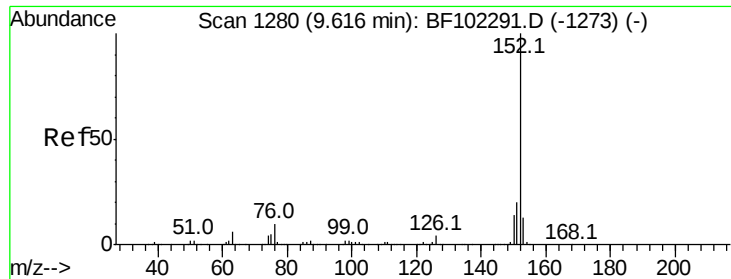
Tot Ion:172 Resp: 41296
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.7 44.5
 170 23.0 19.6 29.4



#45
 1,1'-Biphenyl
 Concen: 3.191 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Tgt Ion:154 Resp: 65928
 Ion Ratio Lower Upper
 154 100
 153 40.6 21.3 61.3
 76 12.3 0.0 34.0





#48

Acenaphthylene

Concen: 10.959 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampleId :

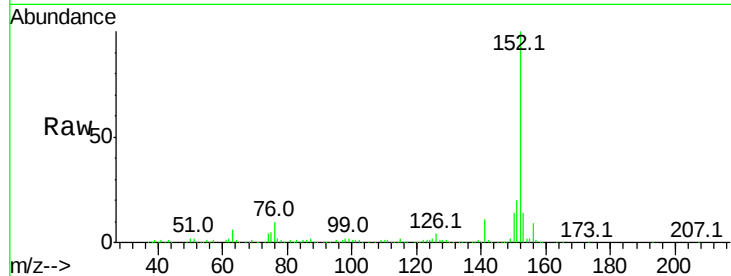
Tot Ion:152 Resp: 274146

Ion Ratio Lower Upper

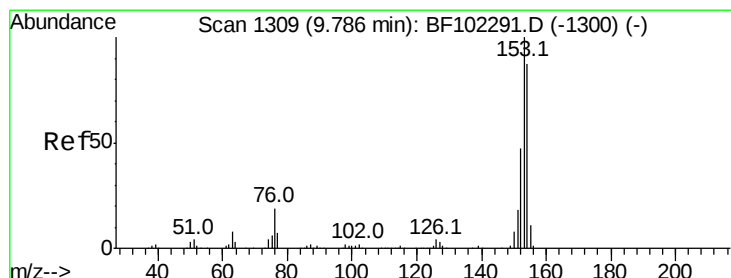
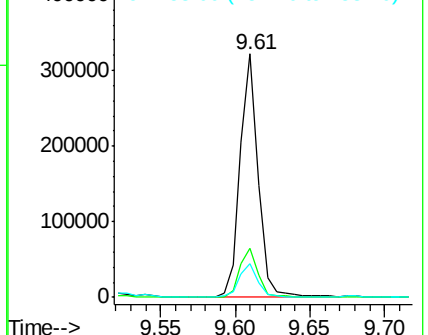
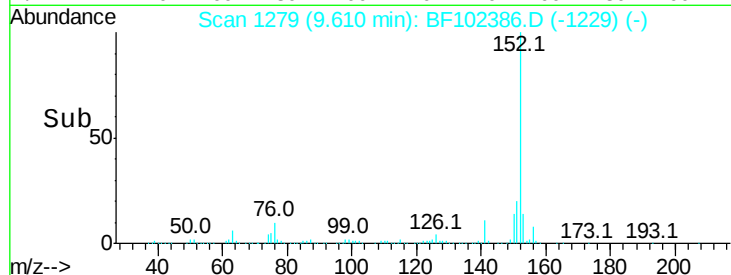
152 100

151 20.1 16.3 24.5

153 13.9 10.7 16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#51

Acenaphthene

Concen: 4.161 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

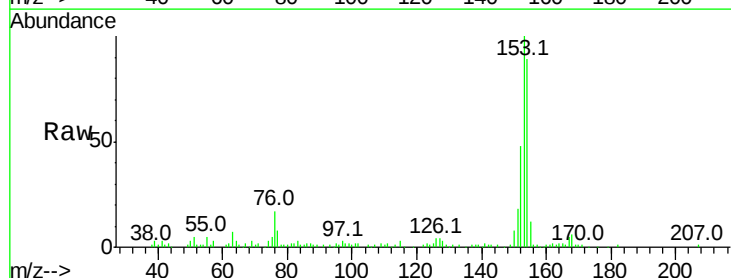
Tgt Ion:154 Resp: 60798

Ion Ratio Lower Upper

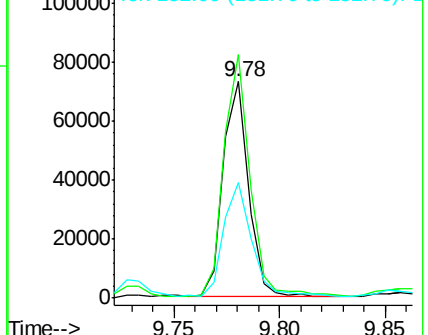
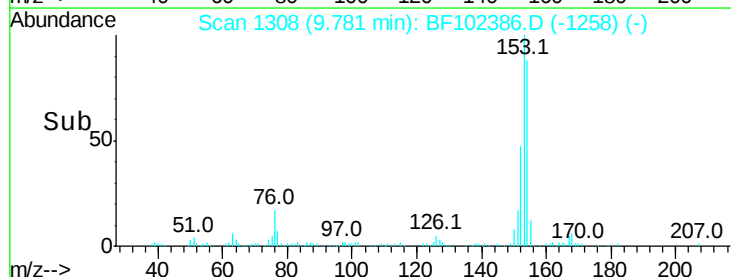
154 100

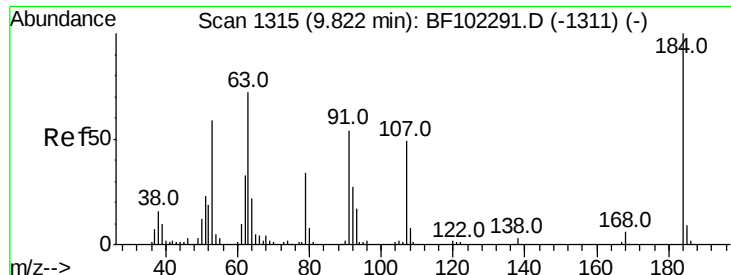
153 112.5 91.2 136.8

152 53.7 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#53

2,4-Dinitrophenol

Concen: 3.765 ng

RT: 10.05 min Scan# 1353

Delta R.T. 0.22 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampled :

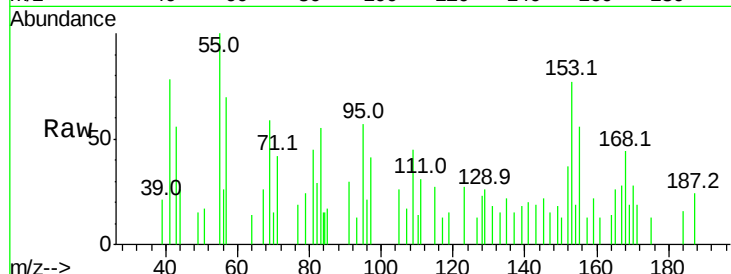
Tot Ion:184 Resp: 135

Ion Ratio Lower Upper

184 100

63 0.0 54.2 81.2#

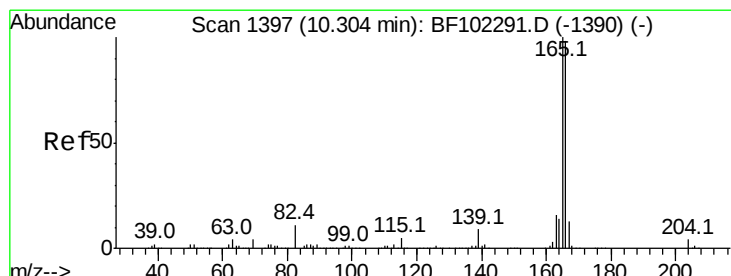
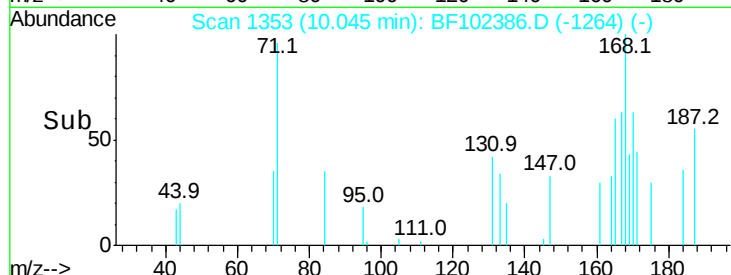
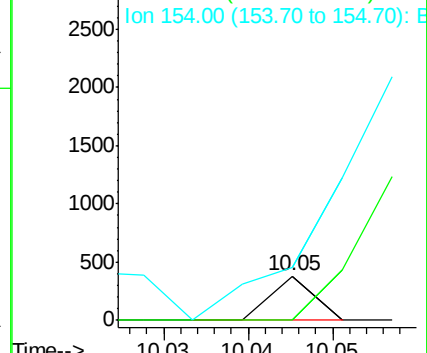
154 119.9 184.0 276.0#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#57

Fluorene

Concen: 13.412 ng

RT: 10.29 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

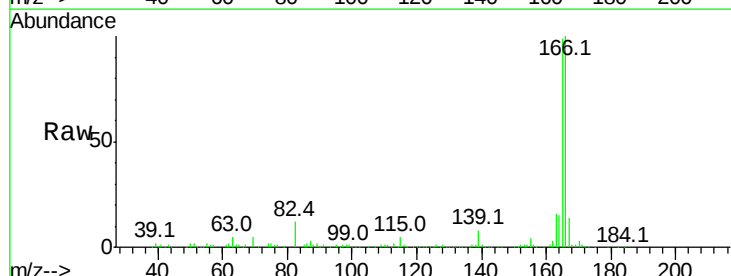
Tgt Ion:166 Resp: 210138

Ion Ratio Lower Upper

166 100

165 99.4 79.8 119.8

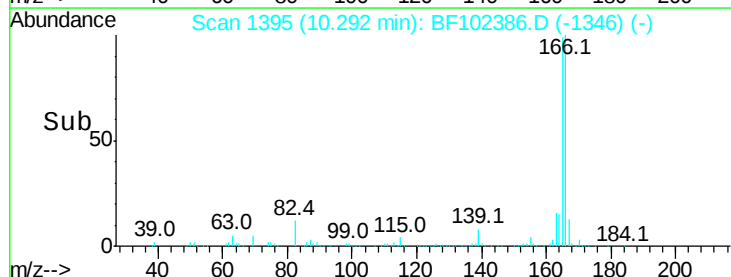
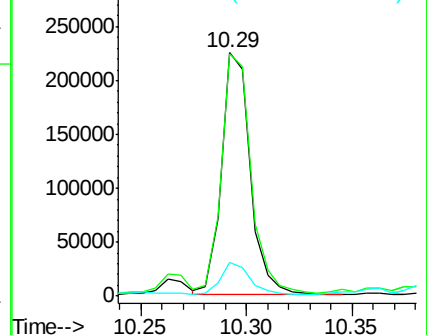
167 14.0 10.6 16.0

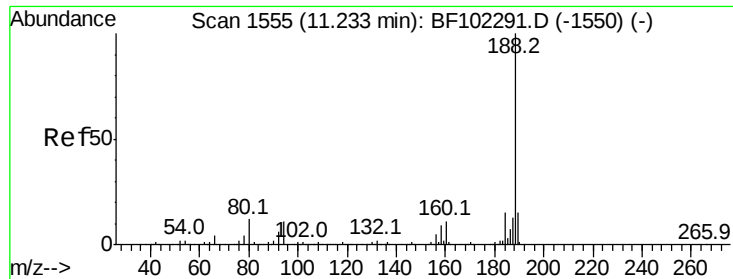


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

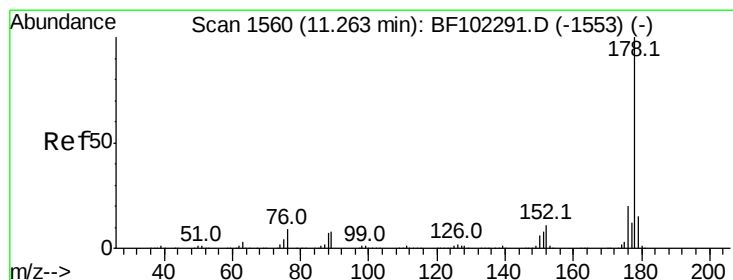
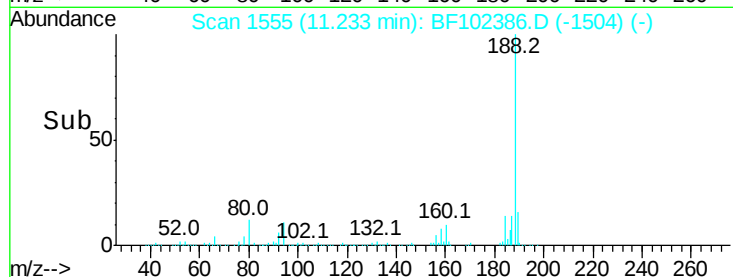
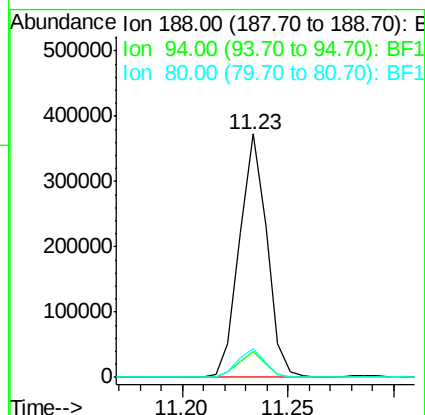
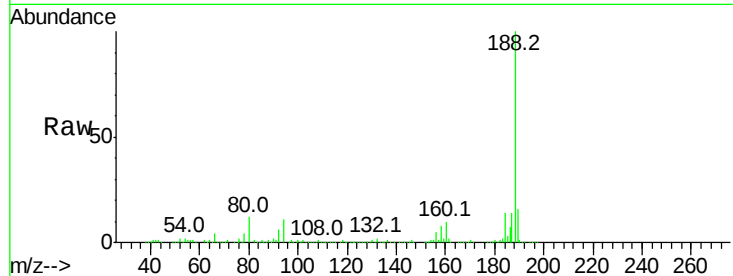




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

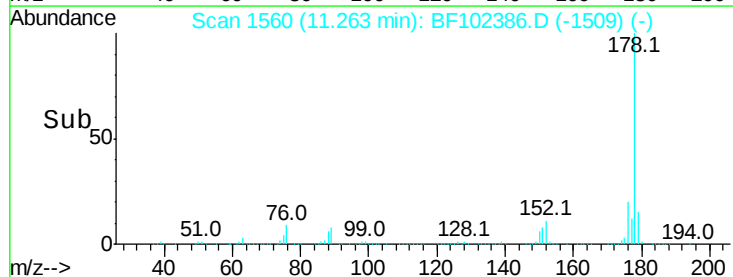
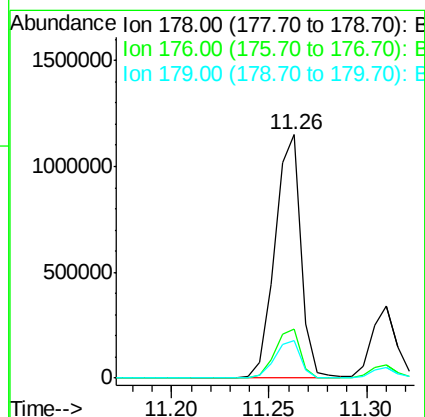
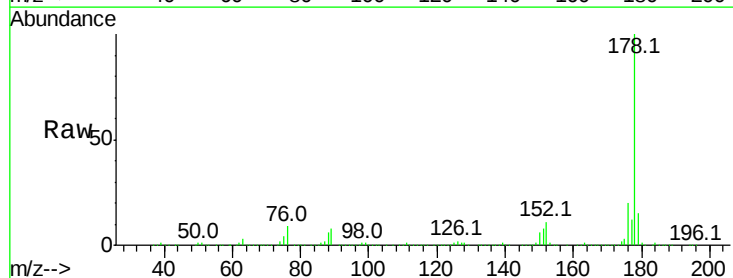
Instrument :
BNA_F
ClientSampleId :

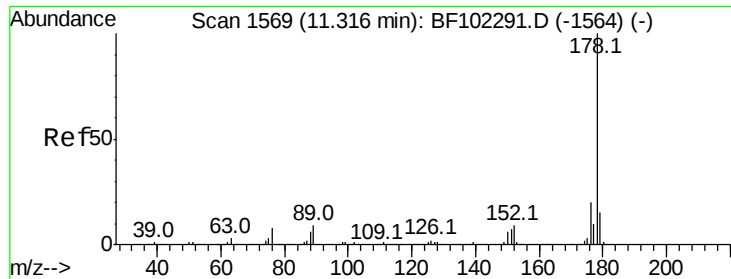
Tot Ion:188 Resp: 334840
Ion Ratio Lower Upper
188 100
94 10.7 8.5 12.7
80 11.5 9.2 13.8



#70
Phenanthrene
Concen: 54.105 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.00 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

Tgt Ion:178 Resp: 1055694
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 15.2 13.0 19.6

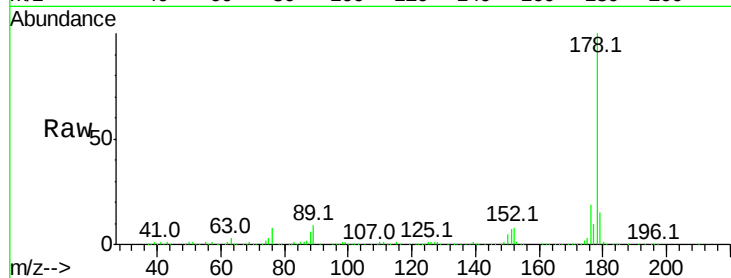




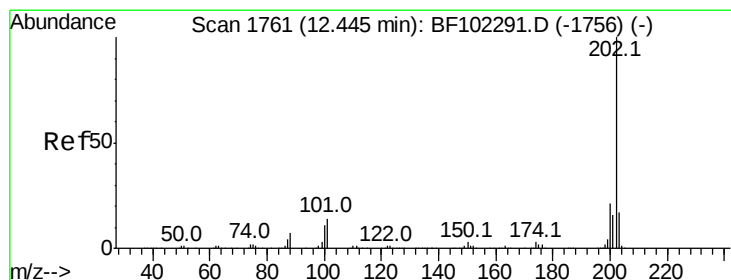
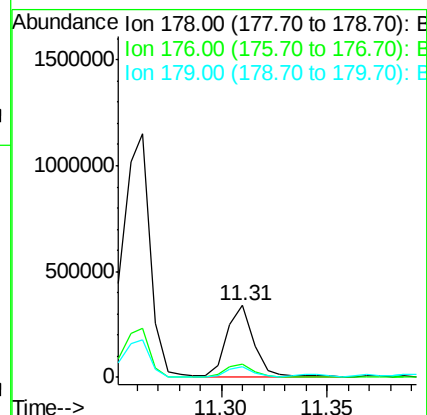
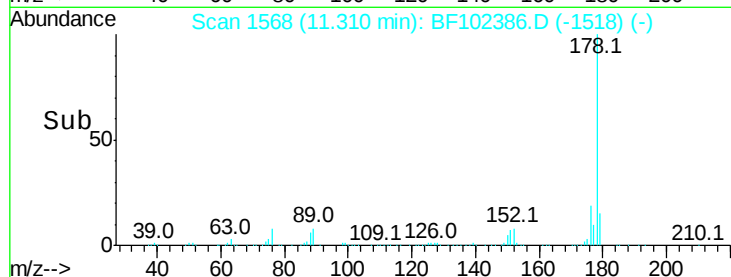
#71
 Anthracene
 Concen: 14.995 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:178 Resp: 298635
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.3 12.6 19.0

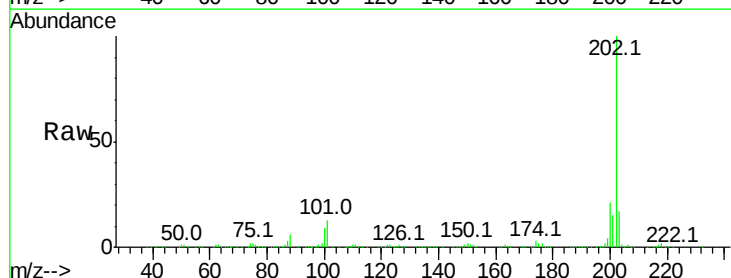


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

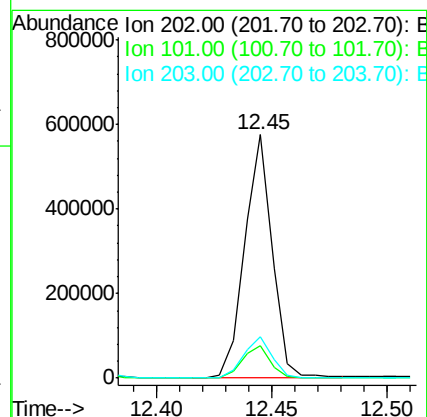
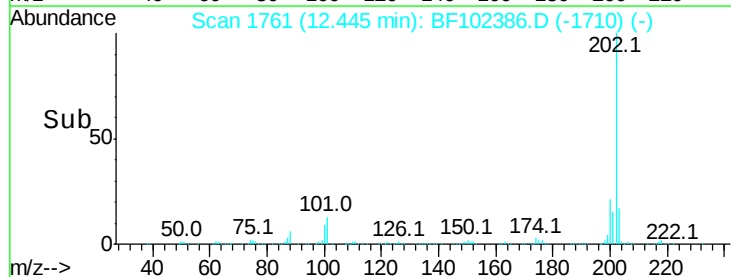


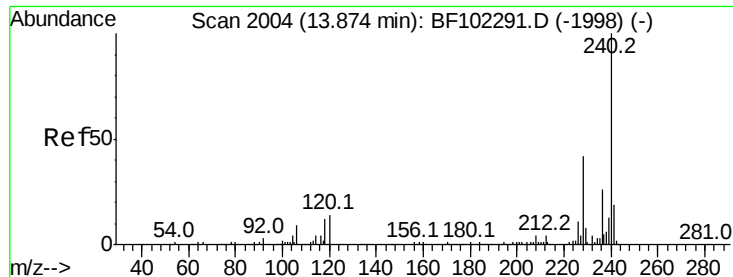
#74
 Fluoranthene
 Concen: 24.019 ng
 RT: 12.45 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Tgt Ion:202 Resp: 477905
 Ion Ratio Lower Upper
 202 100
 101 13.2 0.0 34.1
 203 17.2 0.0 38.1



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: 20.000 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampleId :

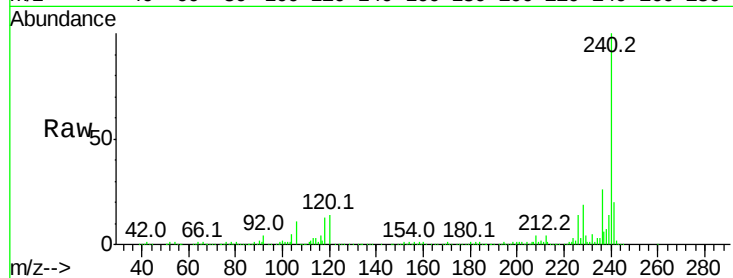
Tot Ion:240 Resp: 237519

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

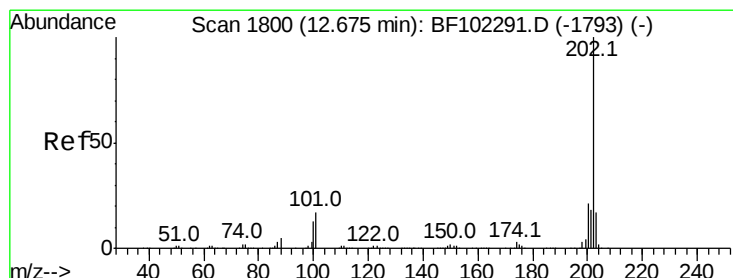
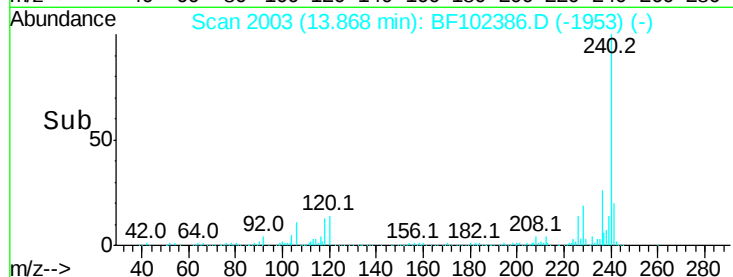
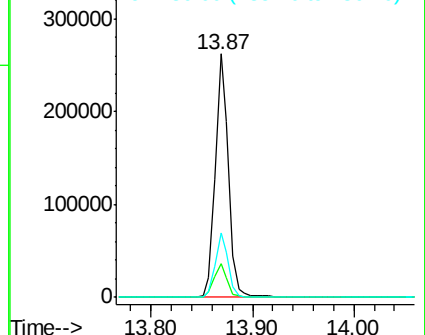
236 26.2 20.7 31.1



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: 33.442 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

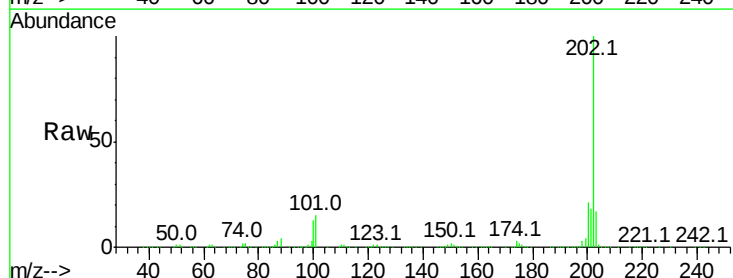
Tgt Ion:202 Resp: 614137

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

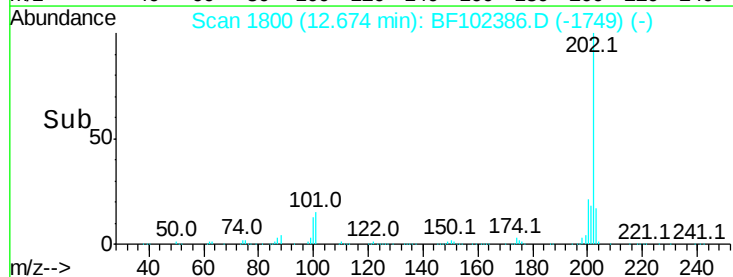
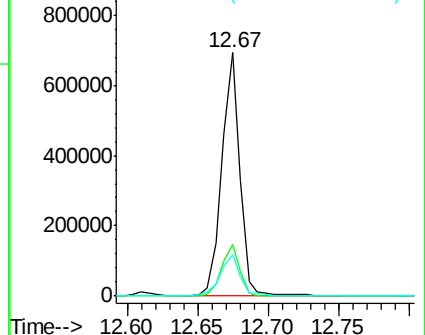
203 17.2 14.3 21.5

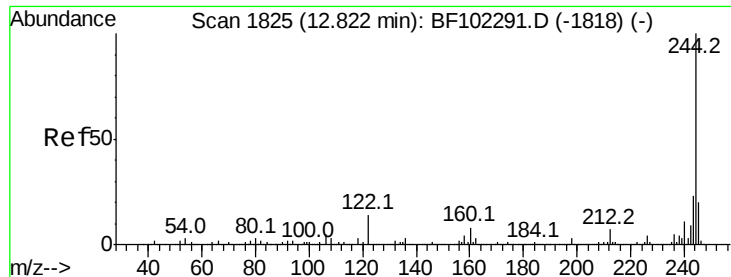


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

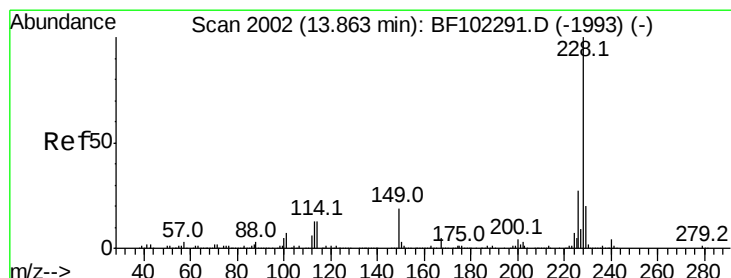
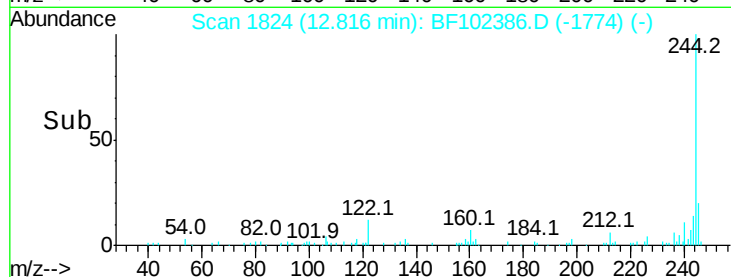
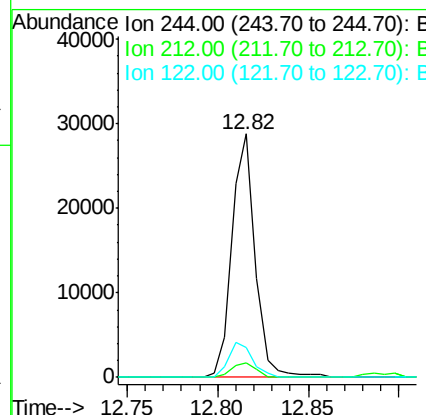
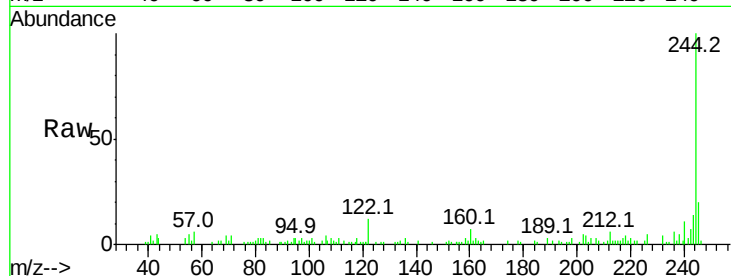




#78
 Terphenyl-d14
 Concen: 2.457 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

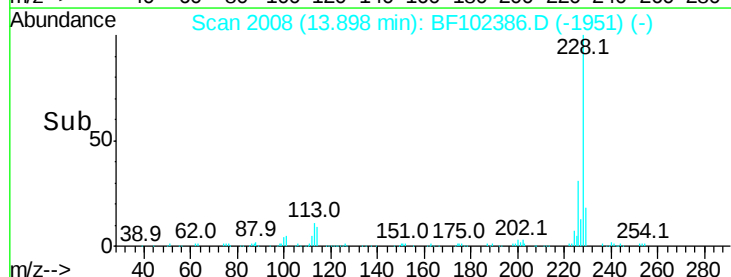
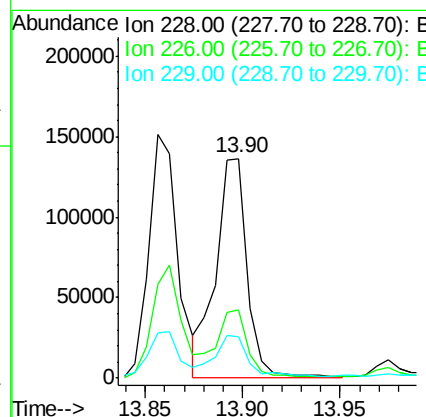
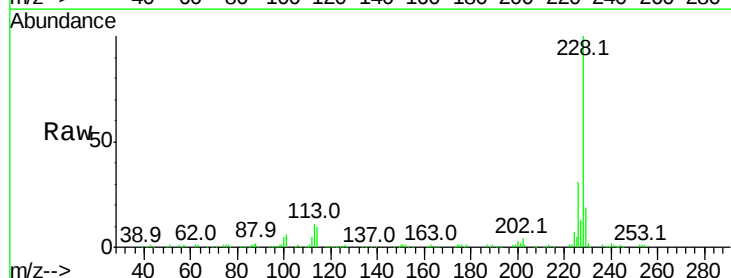
Instrument :
 BNA_F
 ClientSampled :

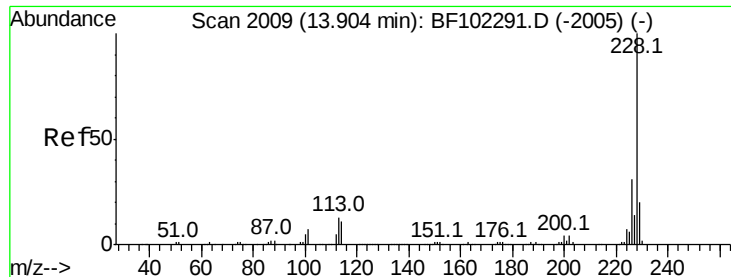
Tot Ion:244 Resp: 25885
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.4 8.0
 122 12.4 11.0 16.4



#80
 Benzo(a)anthracene
 Concen: 10.371 ng
 RT: 13.90 min Scan# 2008
 Delta R.T. 0.04 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Tgt Ion:228 Resp: 151662
 Ion Ratio Lower Upper
 228 100
 226 31.0 22.6 33.8
 229 18.8 15.8 23.6





#82

Chrysene

Concen: 10.213 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

Instrument :

BNA_F

ClientSampled :

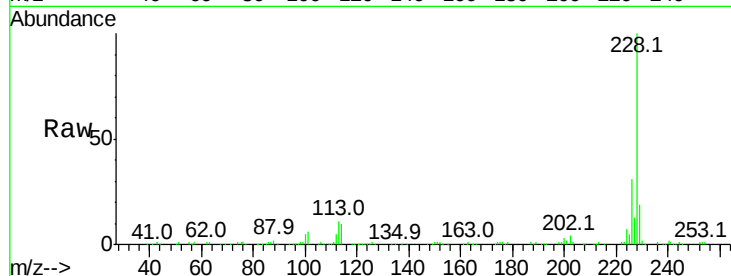
Tot Ion:228 Resp: 151662

Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

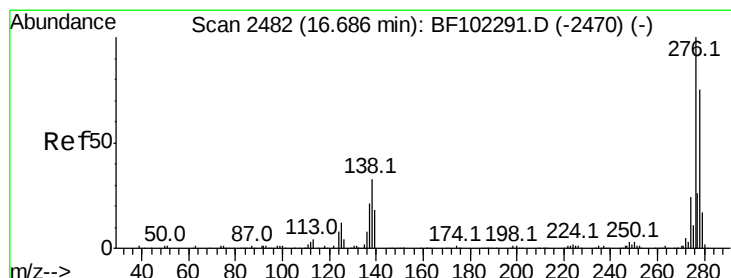
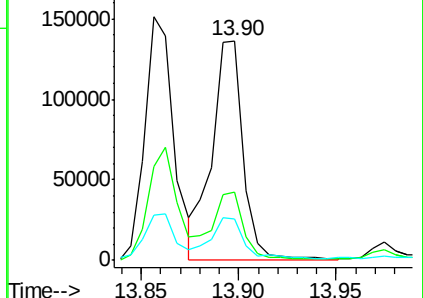
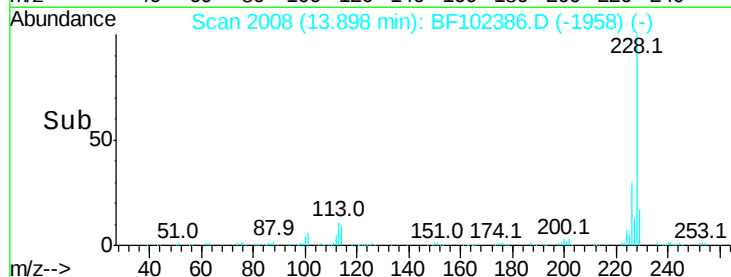
229 18.8 16.2 24.4



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: 4.134 ng

RT: 16.67 min Scan# 2480

Delta R.T. -0.01 min

Lab File: BF102386.D

Acq: 24 Jan 2018 12:26

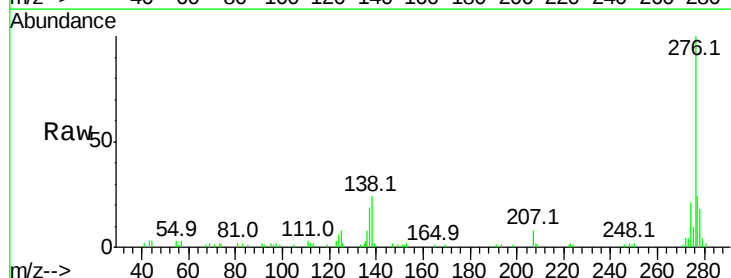
Tgt Ion:276 Resp: 50697

Ion Ratio Lower Upper

276 100

138 31.2 25.0 37.6

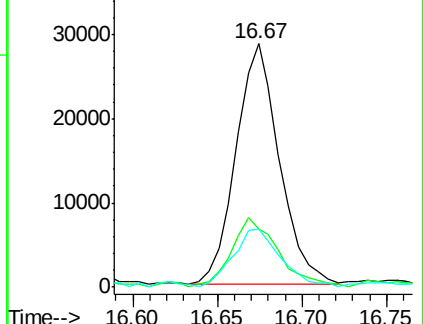
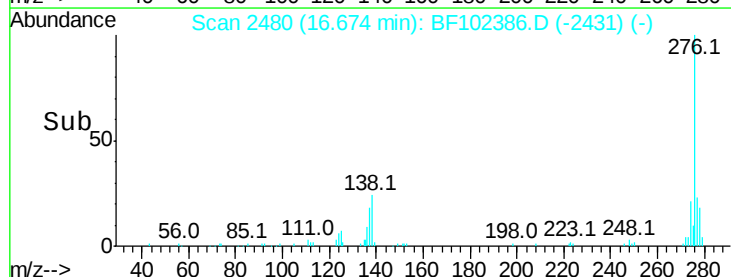
277 26.5 20.1 30.1

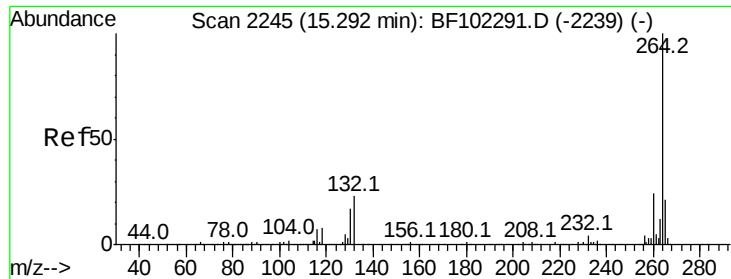


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

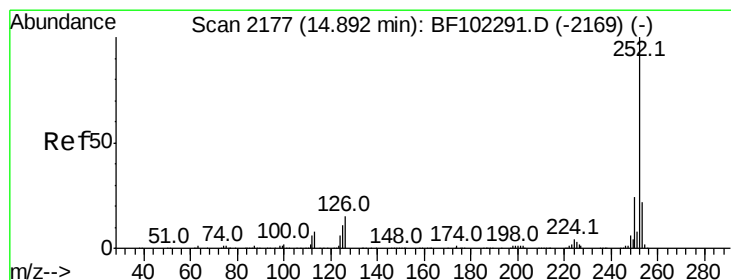
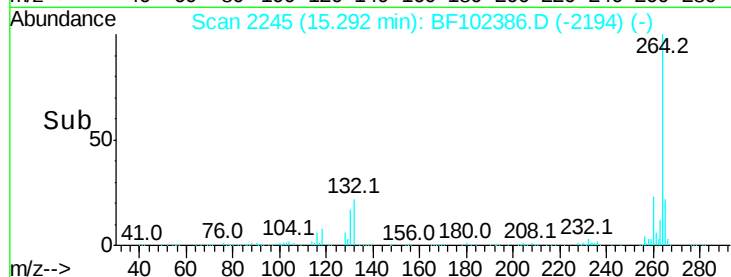
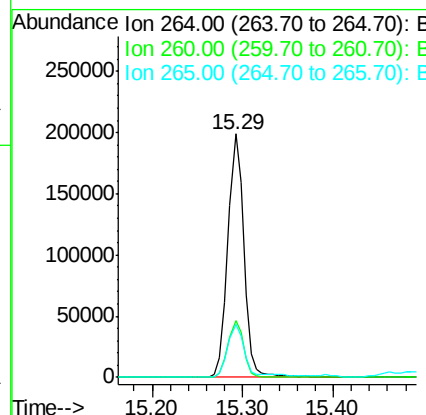
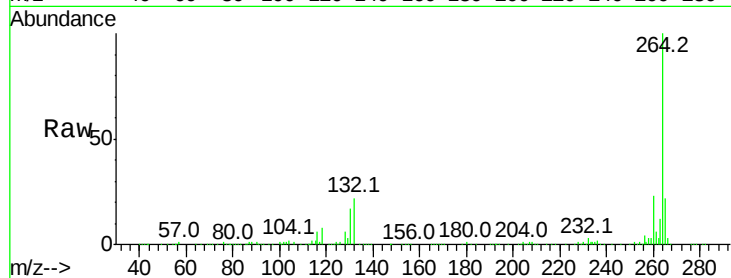




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

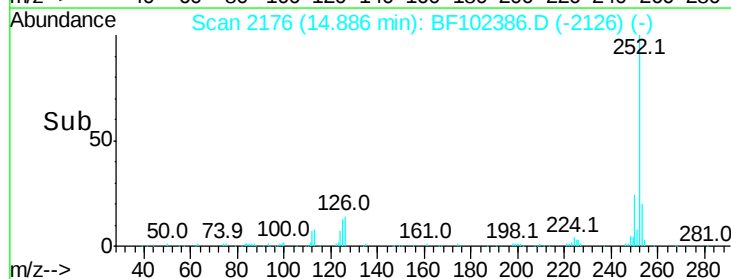
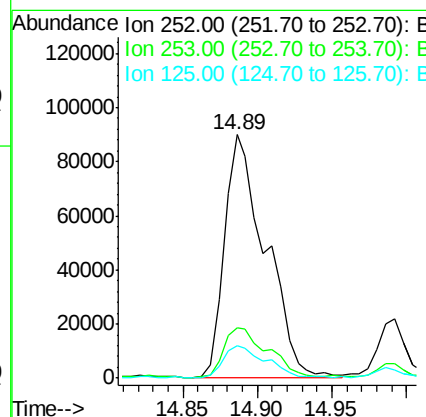
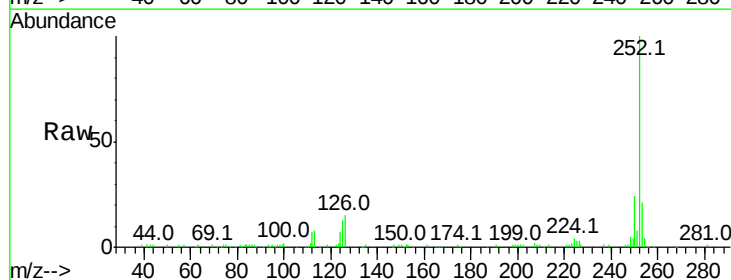
Instrument :
BNA_F
ClientSampled :

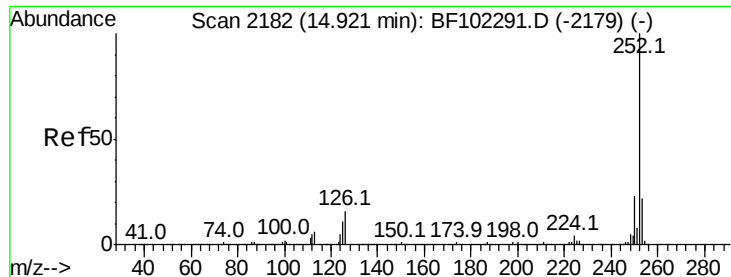
Tot Ion:264 Resp: 243700
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 21.8 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 10.984 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.01 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

Tgt Ion:252 Resp: 173494
Ion Ratio Lower Upper
252 100
253 20.7 17.0 25.6
125 13.1 9.0 13.6

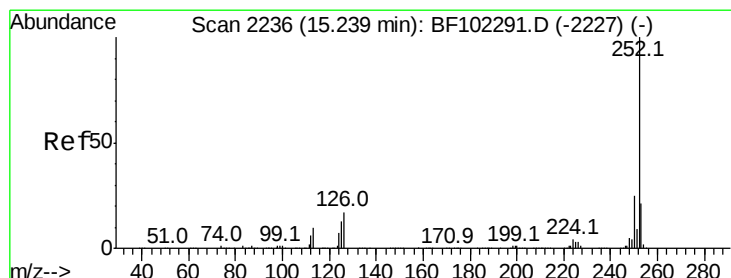
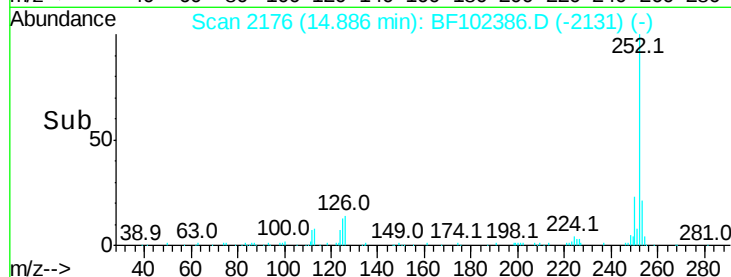
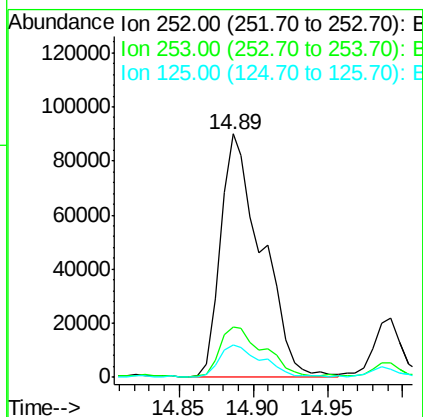
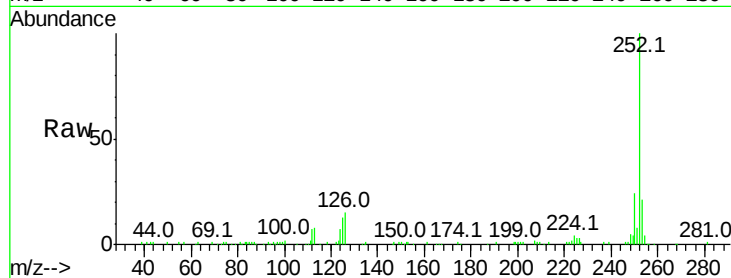




#88
Benzo(k)fluoranthene
Concen: 11.626 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.04 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

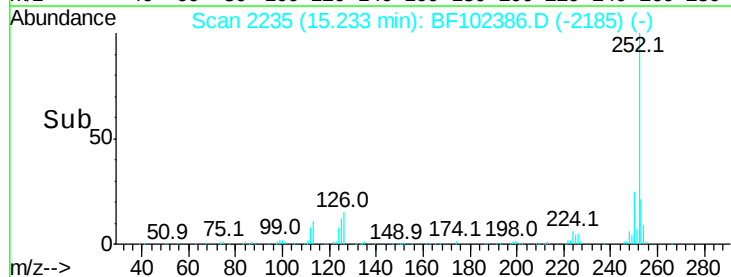
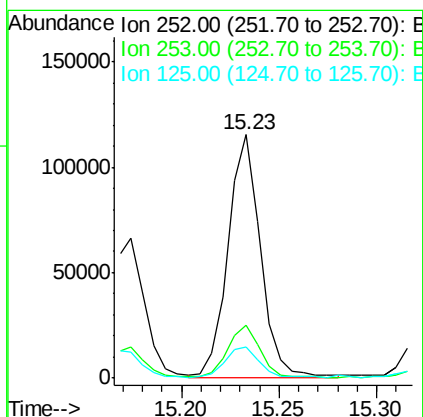
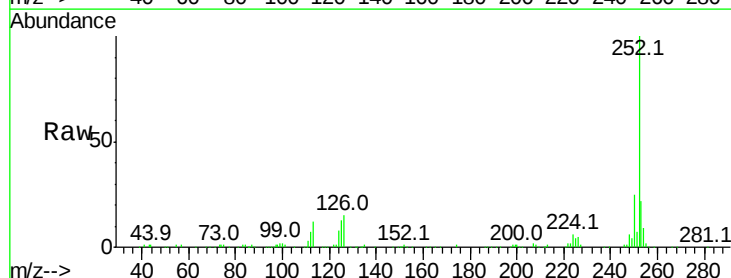
Instrument :
BNA_F
ClientSampleId :

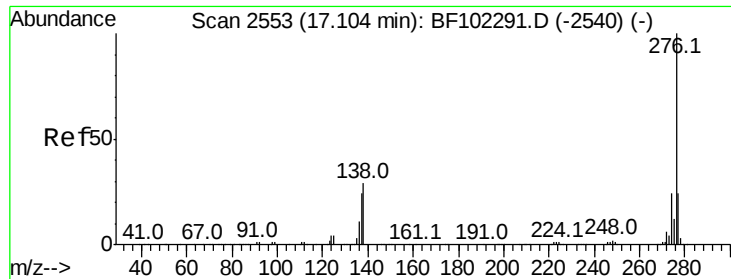
Tot Ion:252 Resp: 173494
Ion Ratio Lower Upper
252 100
253 20.7 17.9 26.9
125 13.1 10.2 15.2



#89
Benzo(a)pyrene
Concen: 9.312 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF102386.D
Acq: 24 Jan 2018 12:26

Tgt Ion:252 Resp: 132654
Ion Ratio Lower Upper
252 100
253 21.8 17.1 25.7
125 12.6 9.8 14.6

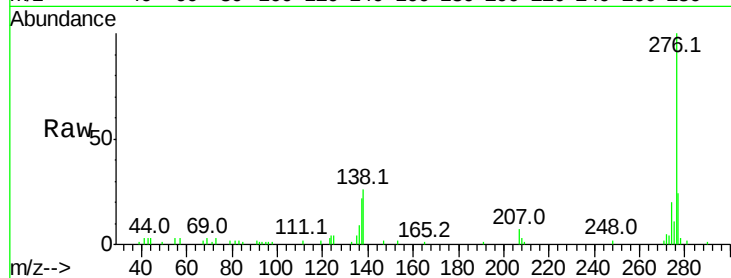




#91
 Benzo(a,h,i)perylene
 Concen: 5.194 ng
 RT: 17.09 min Scan# 2551
 Delta R.T. -0.01 min
 Lab File: BF102386.D
 Acq: 24 Jan 2018 12:26

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	26.1	21.8	32.8



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

