

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061218\
 Data File : BF106361.D
 Acq On : 12 Jun 2018 22:44
 Operator : JU/SJ
 Sample : J3322-04 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 13 01:11:40 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 11 15:00:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	127901	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	458303	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	197565	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	410427	20.00	ng	0.00
75) Chrysene-d12	14.17	240	317790	20.00	ng	0.01
86) Perylene-d12	15.71	264	279448	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	88863	11.76	ng	0.06
7) Phenol-d6	6.66	99	108240	11.34	ng	0.07
23) Nitrobenzene-d5	7.53	82	60320	7.74	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	20647	10.86	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	109992	0.84	ng	0.00
78) Terphenyl-d14	13.09	244	147325	11.51	ng	0.00

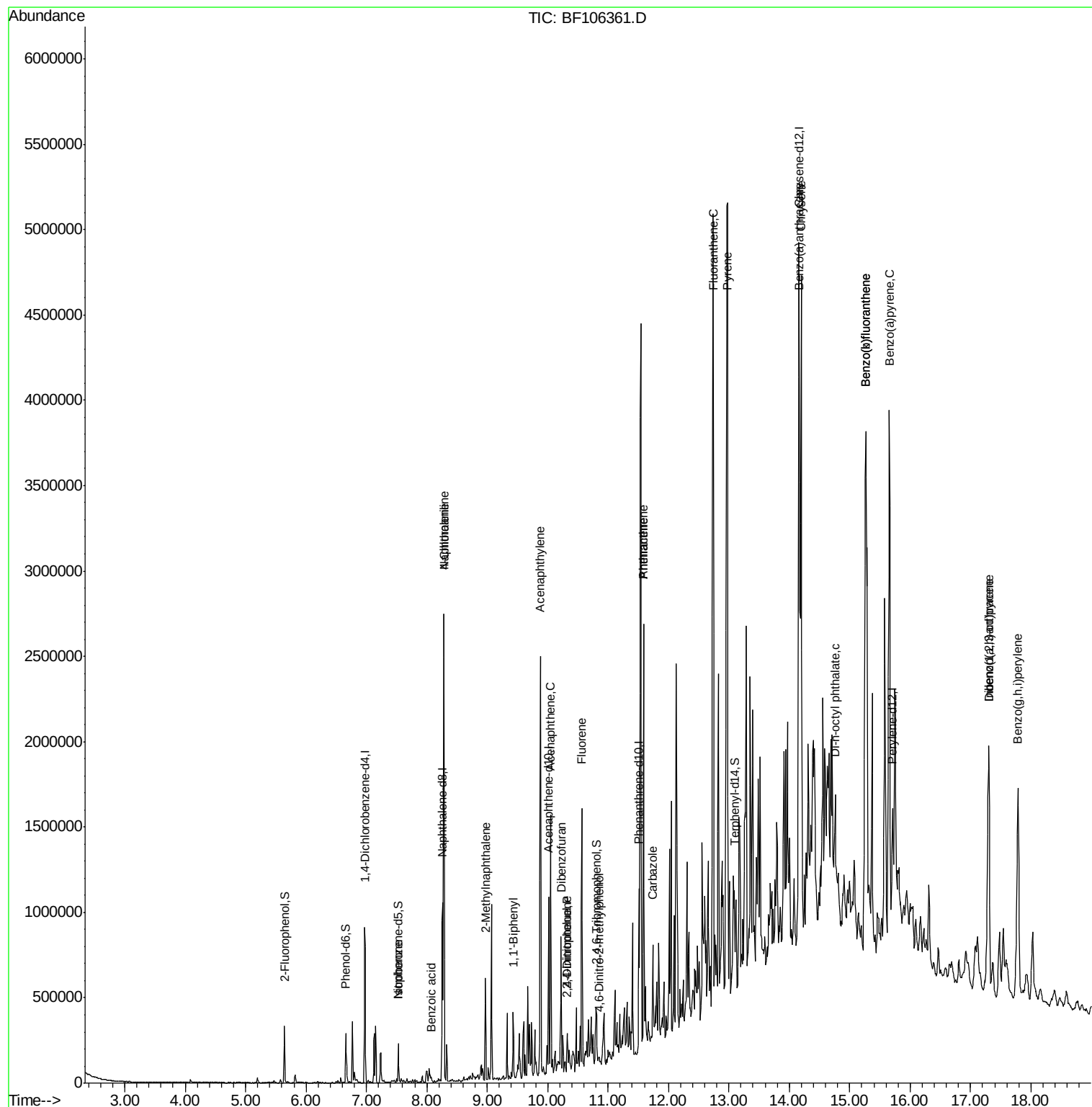
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.53	82	60318	3.964	ng	# 64
31) Naphthalene	8.28	128	1174170	56.675	ng	98
32) Benzoic acid	8.07	122	864	7.443	ng	# 47
33) 4-Chloroaniline	8.28	127	164263	17.891	ng	# 34
37) 2-Methylnaphthalene	8.97	142	135851	9.627	ng	98
45) 1,1'-Biphenyl	9.43	154	101251	6.617	ng	98
48) Acenaphthylene	9.88	152	1056851	56.383	ng	98
51) Acenaphthene	10.05	154	281997	23.296	ng	99
53) 2,4-Dinitrophenol	10.31	184	118	8.693	ng	# 1
54) Dibenzofuran	10.22	168	258007	15.828	ng	97
56) 2,4-Dinitrotoluene	10.32	165	11229	3.101	ng	# 54
57) Fluorene	10.57	166	418426	32.399	ng	100
64) 4,6-Dinitro-2-methylphenol	10.84	198	657	6.553	ng	# 1
70) Phenanthrene	11.59	178	894137	44.484	ng	99
71) Anthracene	11.59	178	894137	44.403	ng	98
72) Carbazole	11.74	167	181423	9.759	ng	99
74) Fluoranthene	12.74	202	2645413	123.411	ng	93
77) Pyrene	12.98	202	2695642	135.489	ng	# 87
80) Benzo(a)anthracene	14.16	228	2069575	109.435	ng	# 74
82) Chrysene	14.20	228	1708142	98.930	ng	# 90
84) Di-n-octyl phthalate	14.75	149	70235	4.562	ng	# 78
85) Indeno(1,2,3-cd)pyrene	17.30	276	1210568	87.850	ng	# 89
87) Benzo(b)fluoranthene	15.27	252	3281103	194.237	ng	94
88) Benzo(k)fluoranthene	15.27	252	3281103	196.125	ng	95
89) Benzo(a)pyrene	15.66	252	1869390	123.035	ng	93
90) Dibenzo(a,h)anthracene	17.31	278	310501	24.512	ng	93
91) Benzo(g,h,i)perylene	17.79	276	1213405	98.568	ng	93

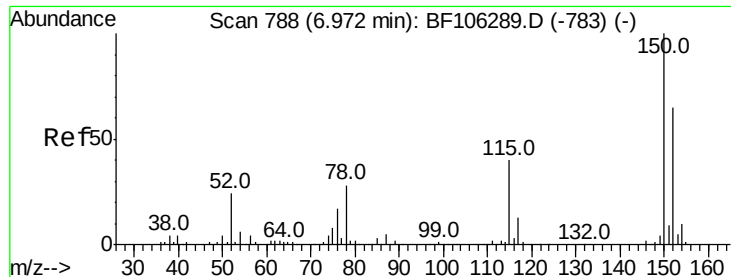
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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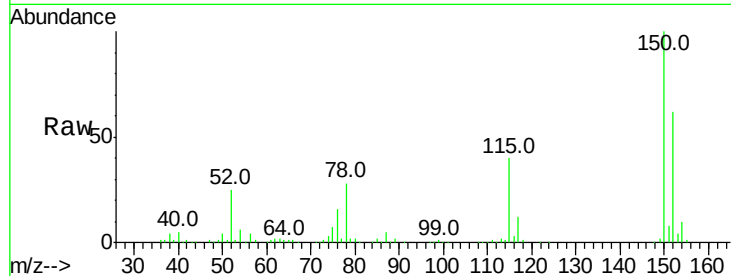


#1

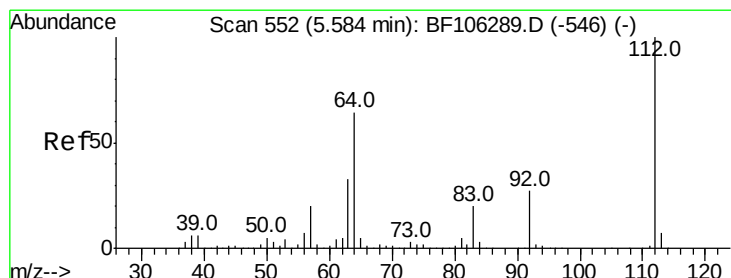
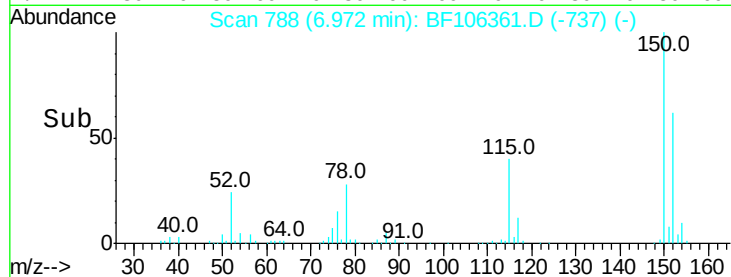
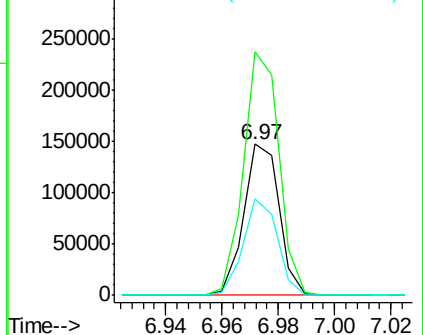
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 127901
Ion Ratio Lower Upper
152 100
150 160.9 124.6 186.8
115 63.6 50.1 75.1



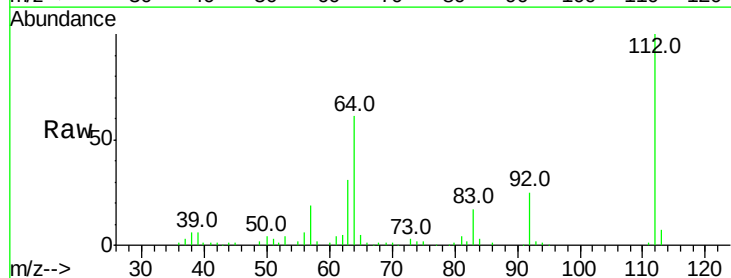
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



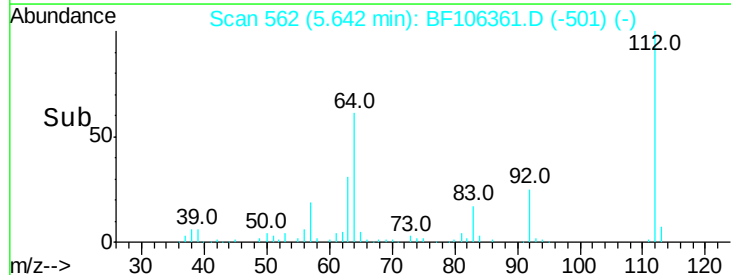
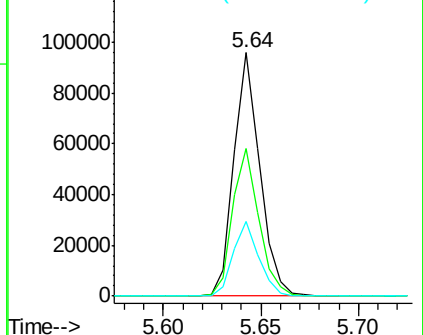
#5

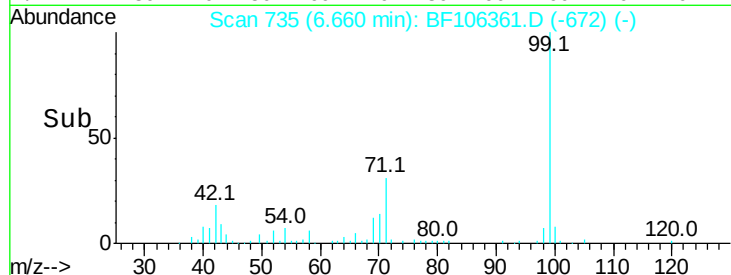
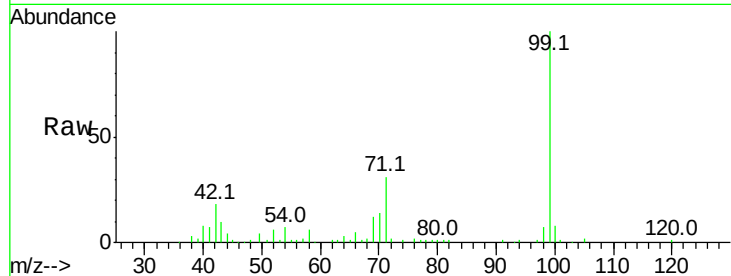
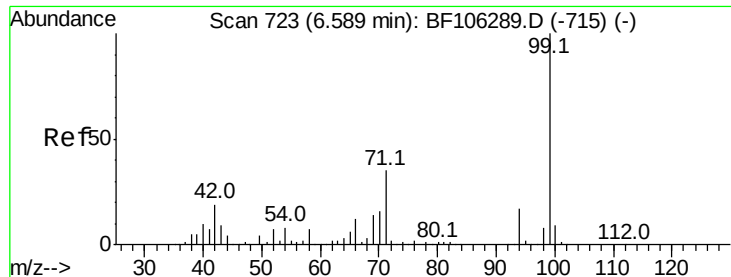
2-Fluorophenol
Concen: 11.759 ng
RT: 5.64 min Scan# 562
Delta R.T. 0.06 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:112 Resp: 88863
Ion Ratio Lower Upper
112 100
64 60.8 47.9 71.9
63 30.7 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: 11.337 ng

RT: 6.66 min Scan# 735

Delta R.T. 0.07 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

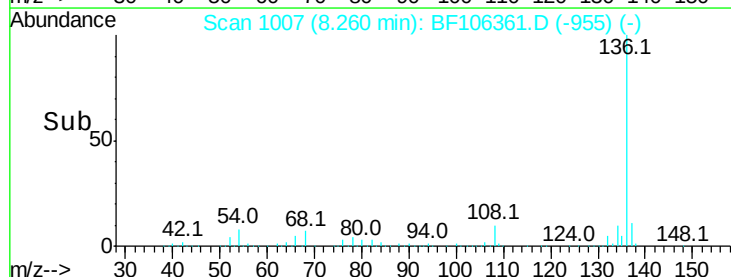
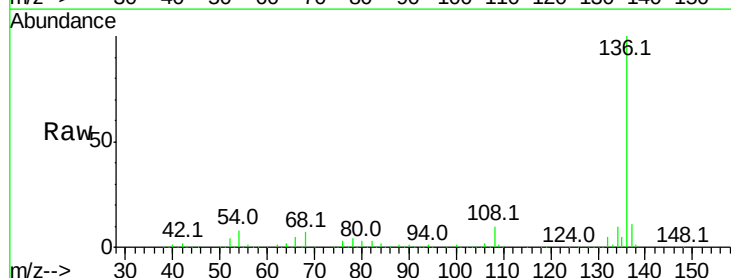
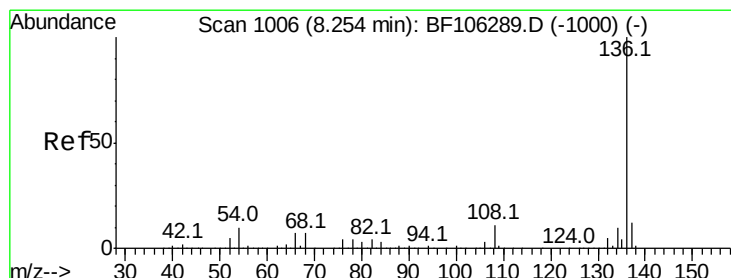
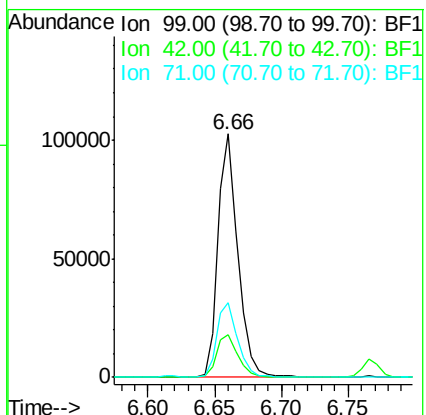
Tot Ion: 99 Resp: 108240

Ion Ratio Lower Upper

99 100

42 17.7 14.5 21.7

71 30.9 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.26 min Scan# 1007

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion: 136 Resp: 458303

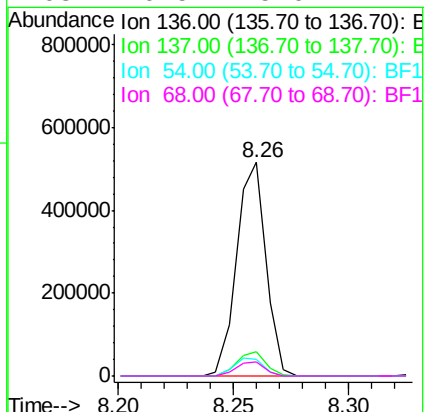
Ion Ratio Lower Upper

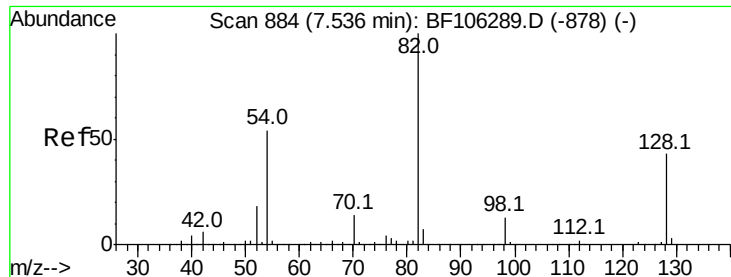
136 100

137 11.2 8.9 13.3

54 8.0 6.6 9.8

68 6.5 5.0 7.4





#23

Nitrobenzene-d5

Concen: 7.743 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

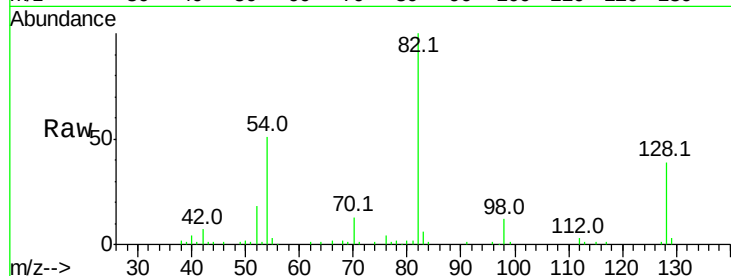
Tot Ion: 82 Resp: 60320

Ion Ratio Lower Upper

82 100

128 39.0 36.1 54.1

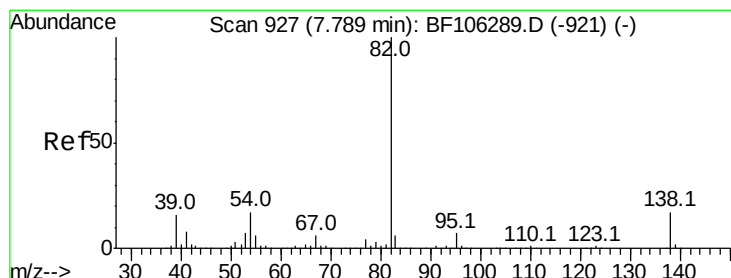
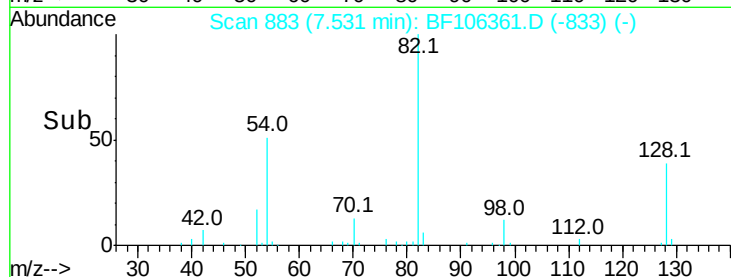
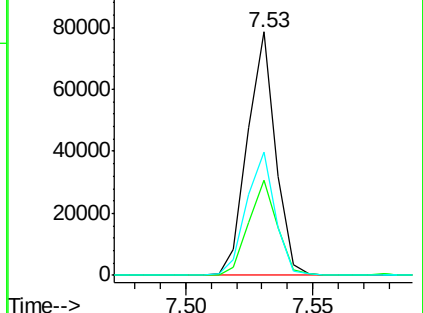
54 50.6 41.4 62.2



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



#25

Isophorone

Concen: 3.964 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

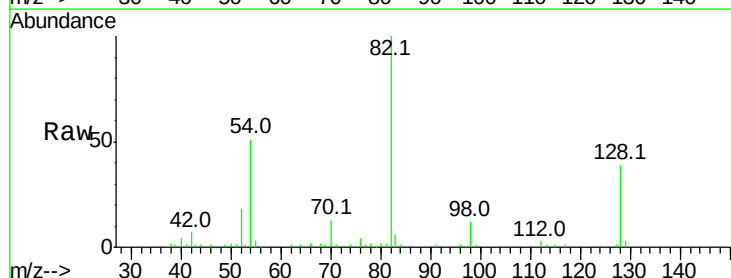
Tgt Ion: 82 Resp: 60318

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

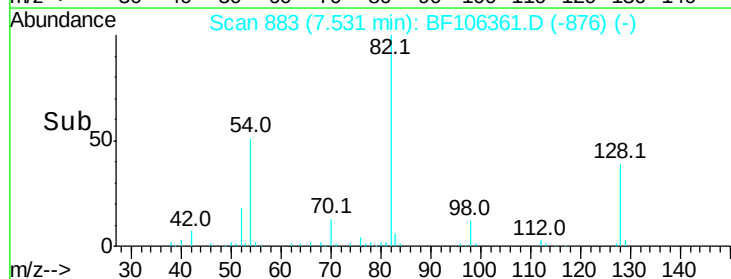
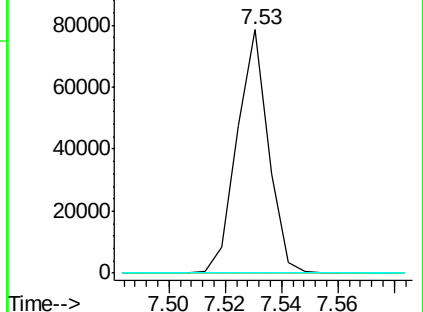
138 0.0 14.9 22.3#

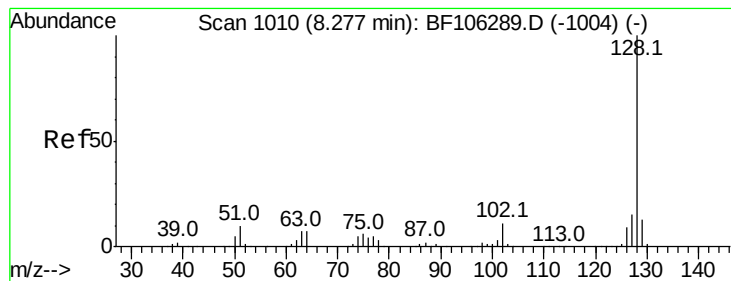


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 56.675 ng

RT: 8.28 min Scan# 1011

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

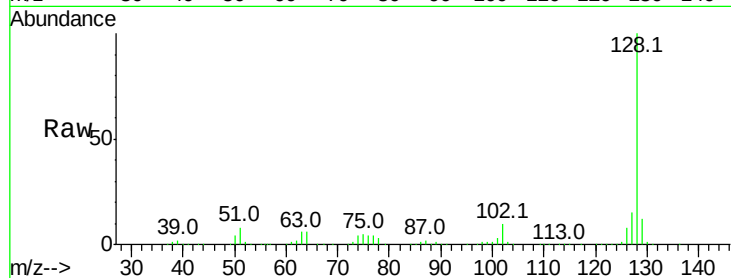
Tot Ion:128 Resp: 1174170

Ion Ratio Lower Upper

128 100

129 12.0 8.8 13.2

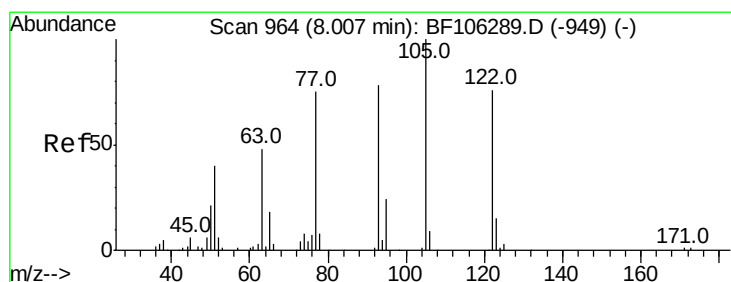
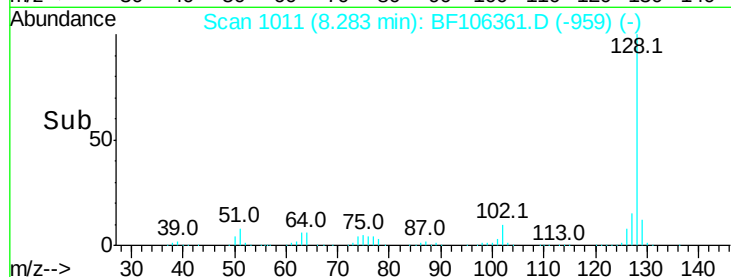
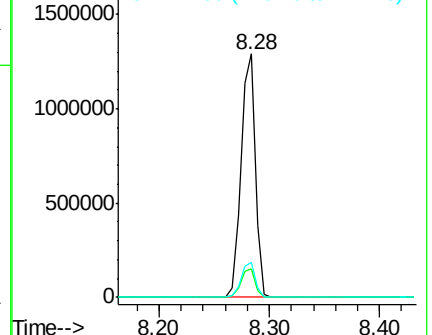
127 14.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 7.443 ng

RT: 8.07 min Scan# 974

Delta R.T. 0.06 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

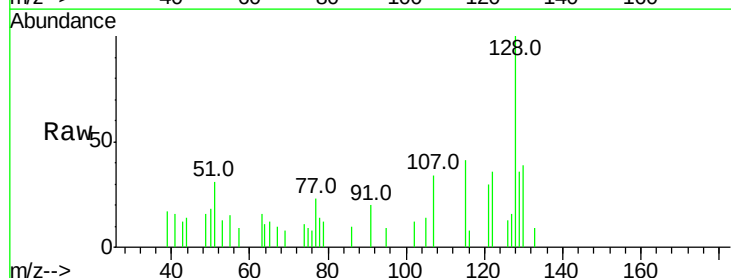
Tgt Ion:122 Resp: 864

Ion Ratio Lower Upper

122 100

105 39.9 101.1 141.1#

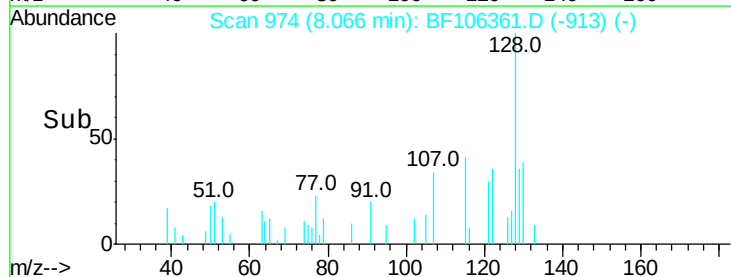
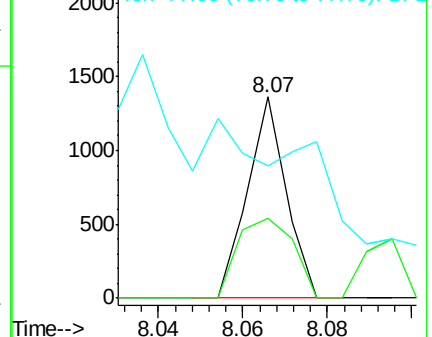
77 66.0 70.7 110.7#

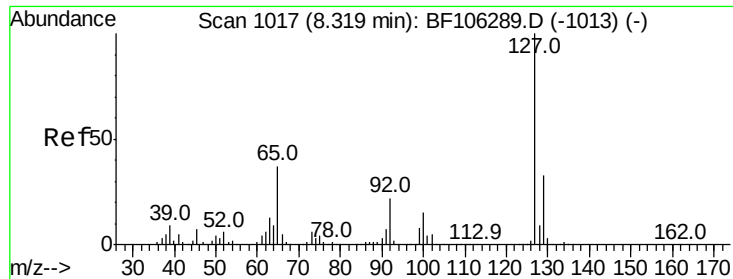


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

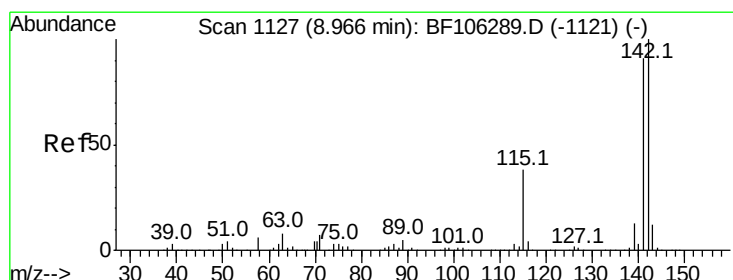
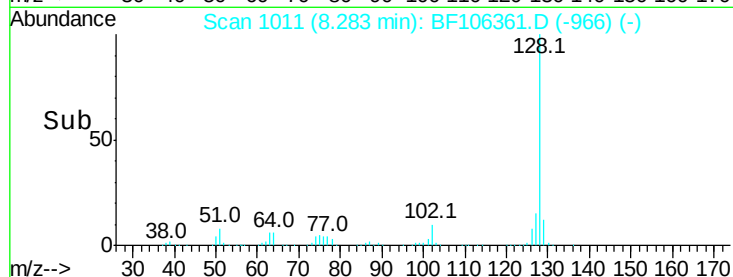
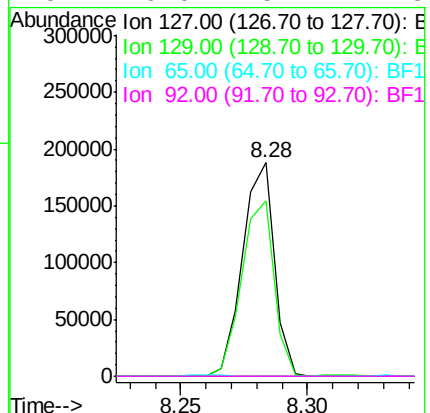
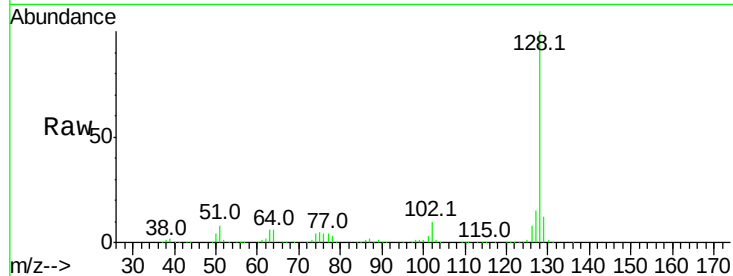




#33
4-Chloroaniline
Concen: 17.891 ng
RT: 8.28 min Scan# 1011
Delta R.T. -0.04 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

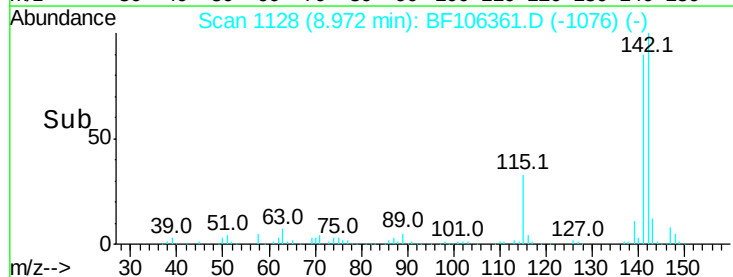
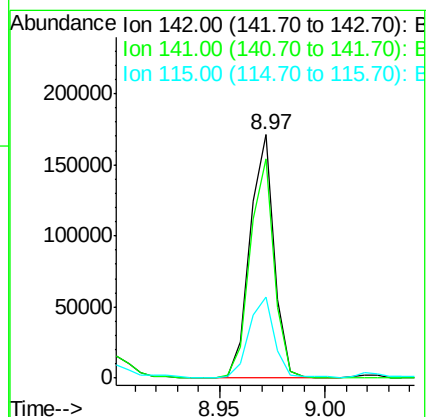
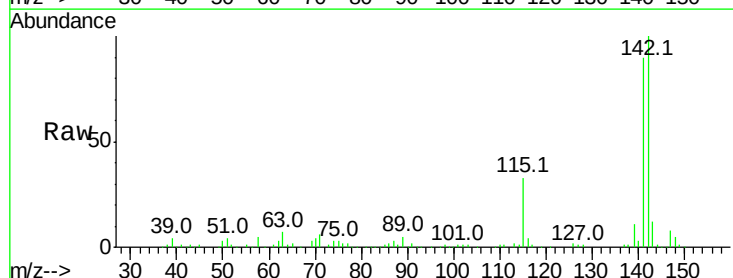
Instrument :
BNA_F
ClientSampled :

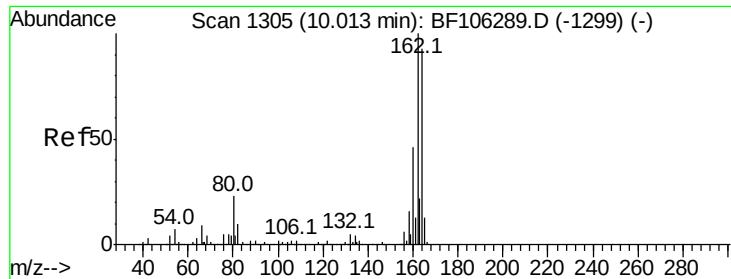
Tot Ion:	127	Resp:	164263
Ion	Ratio	Lower	Upper
127	100		
129	82.3	25.9	38.9#
65	0.0	25.0	37.4#
92	0.0	15.2	22.8#



#37
2-Methylnaphthalene
Concen: 9.627 ng
RT: 8.97 min Scan# 1128
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:	142	Resp:	135851
Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.8	106.2
115	33.3	26.1	39.1

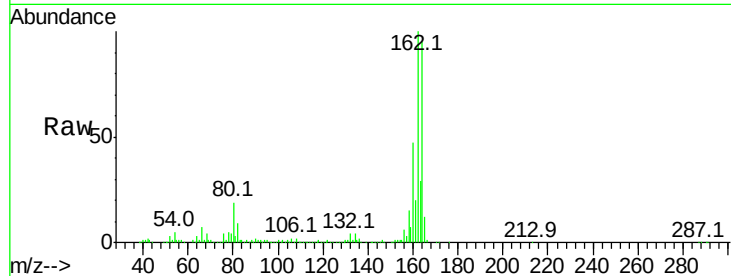




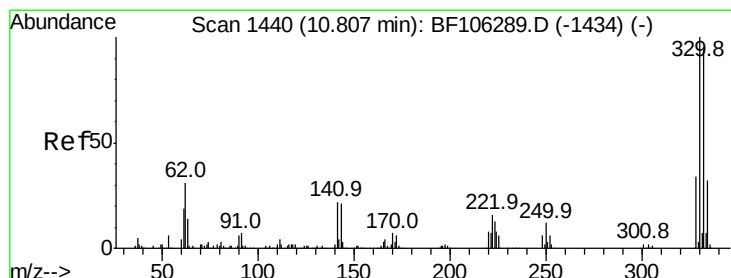
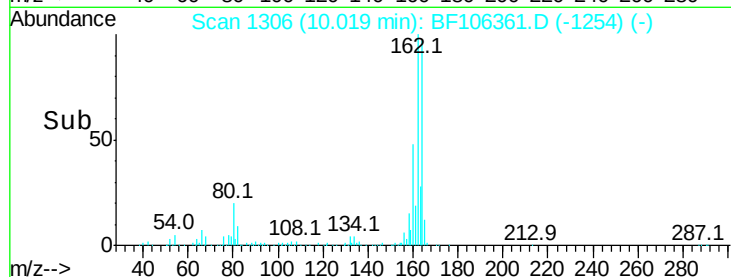
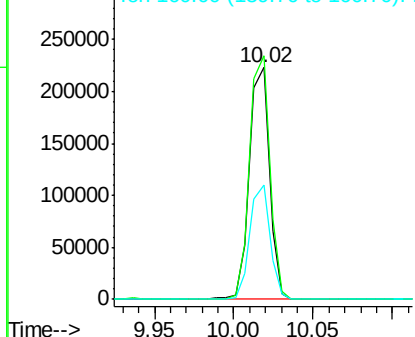
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.02 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 197565
Ion Ratio Lower Upper
164 100
162 105.2 86.1 129.1
160 49.2 38.3 57.5

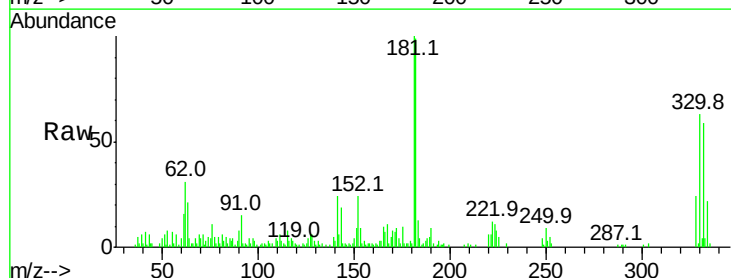


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

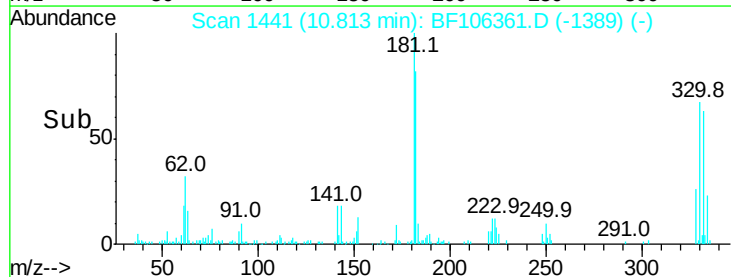
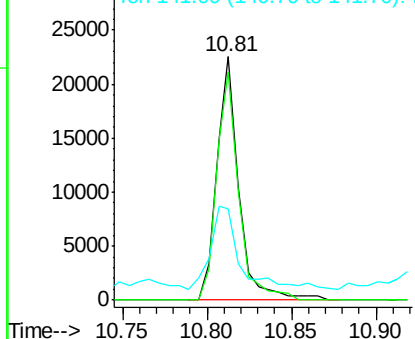


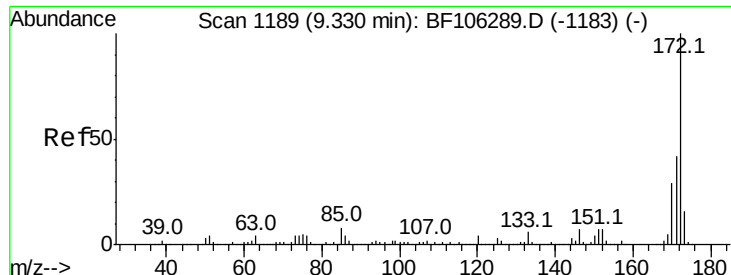
#41
2,4,6-Tribromophenol
Concen: 10.862 ng
RT: 10.81 min Scan# 1441
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:330 Resp: 20647
Ion Ratio Lower Upper
330 100
332 93.3 77.0 115.6
141 47.9 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

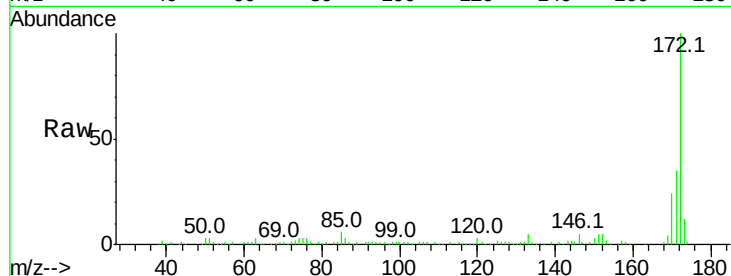




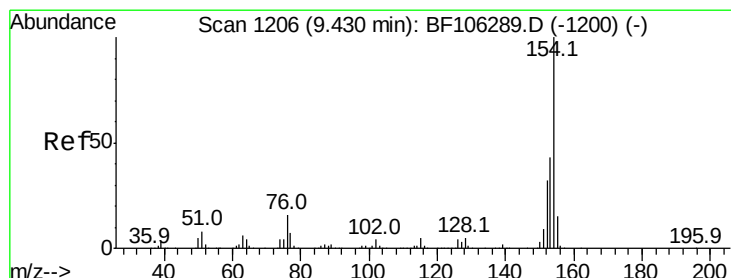
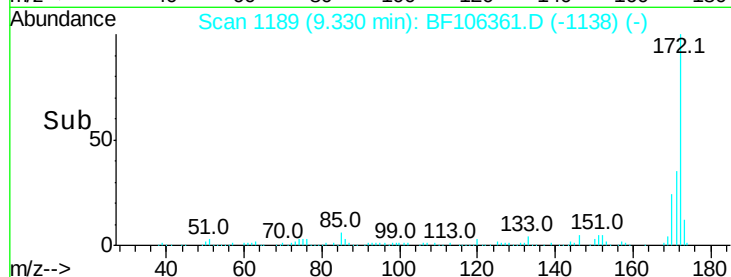
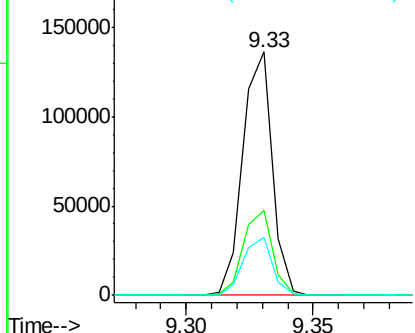
#44
2-Fluorobiphenyl
Concen: 0.842 ng
RT: 9.33 min Scan# 1189
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	23.9	19.6	29.4

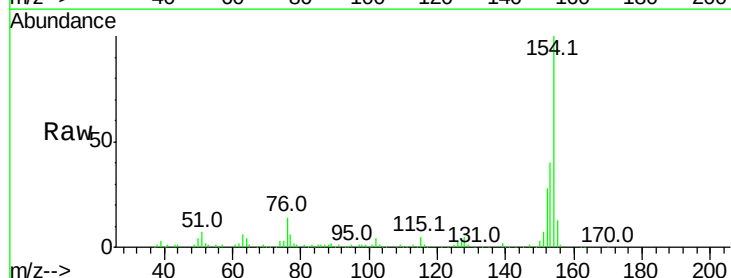


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

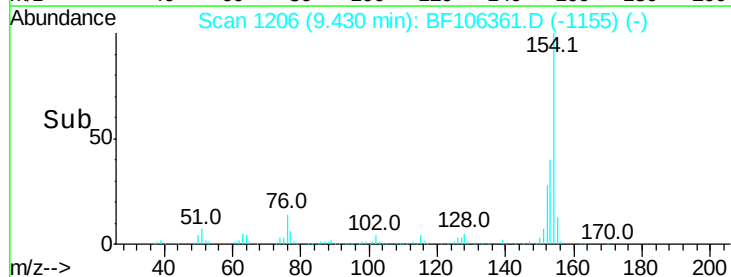
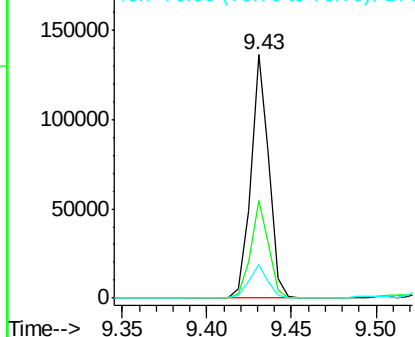


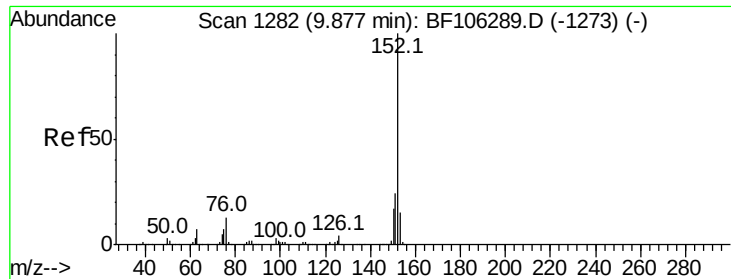
#45
1,1'-Biphenyl
Concen: 6.617 ng
RT: 9.43 min Scan# 1206
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.1	21.3	61.3
76	13.8	0.0	34.0



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





#48

Acenaphthylene

Concen: 56.383 ng

RT: 9.88 min Scan# 1283

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

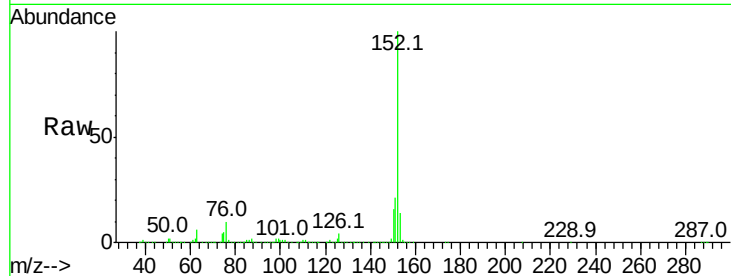
Tot Ion:152 Resp: 1056851

Ion Ratio Lower Upper

152 100

151 21.4 16.3 24.5

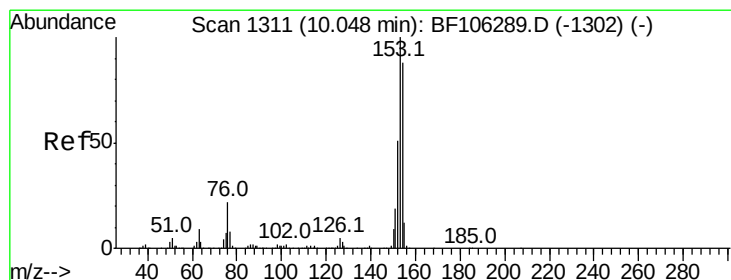
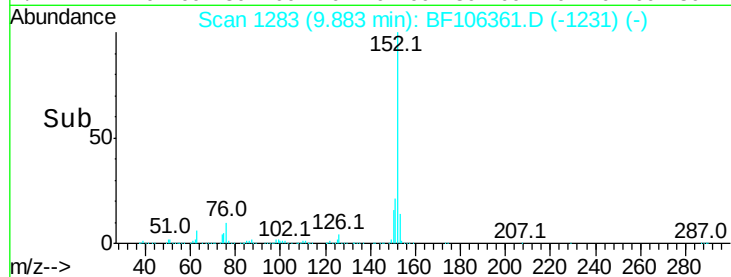
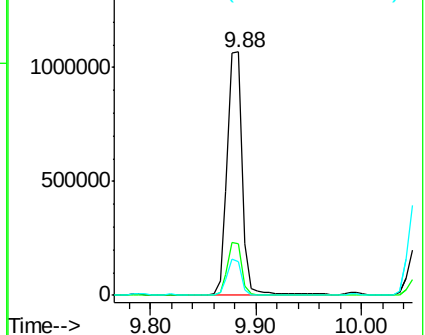
153 13.7 10.7 16.1



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: 23.296 ng

RT: 10.05 min Scan# 1311

Delta R.T. 0.00 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

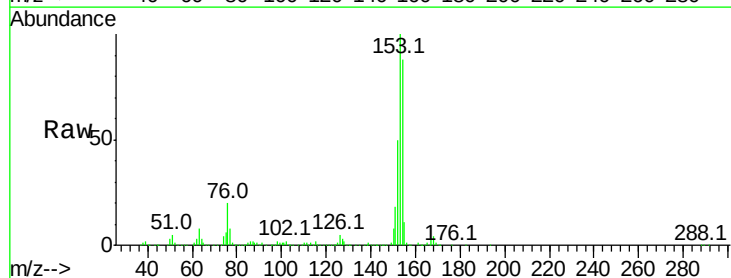
Tgt Ion:154 Resp: 281997

Ion Ratio Lower Upper

154 100

153 113.8 91.2 136.8

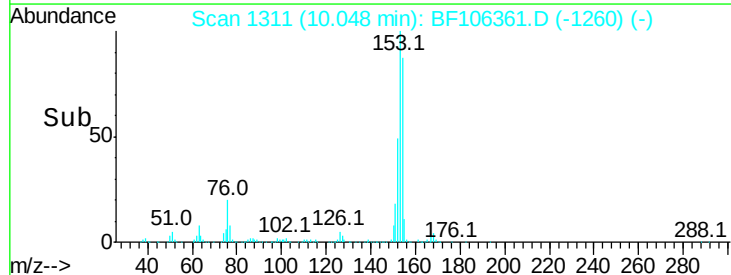
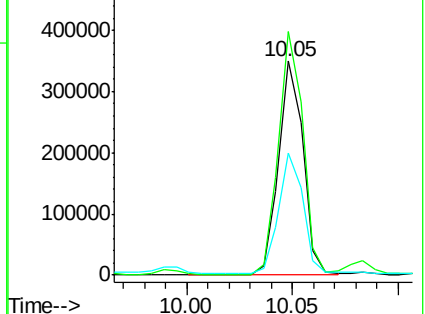
152 56.8 43.8 65.8

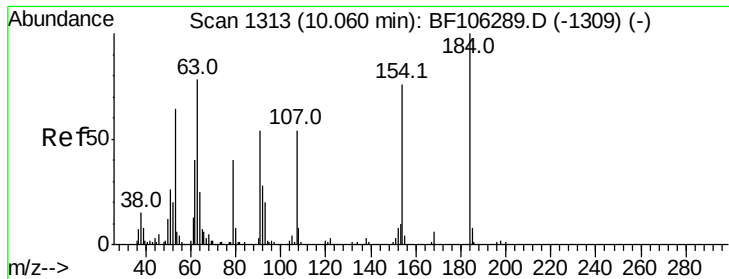


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

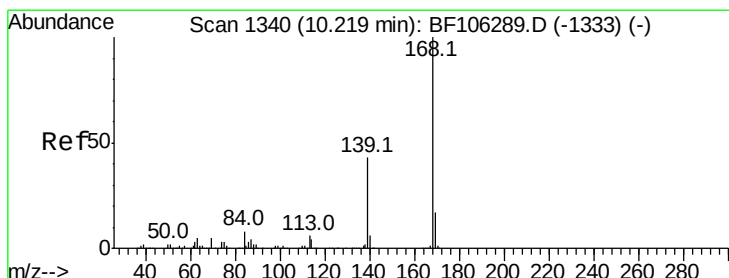
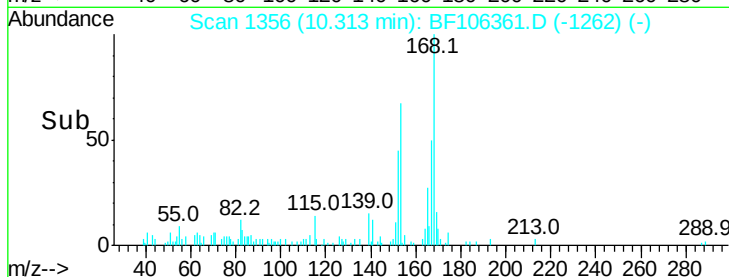
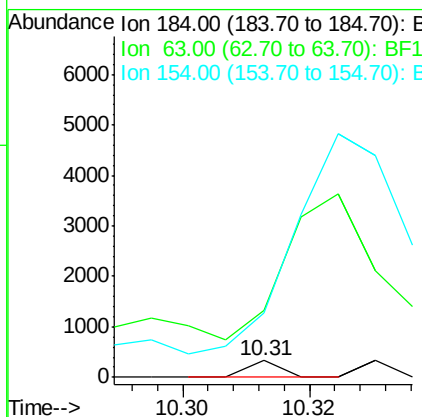
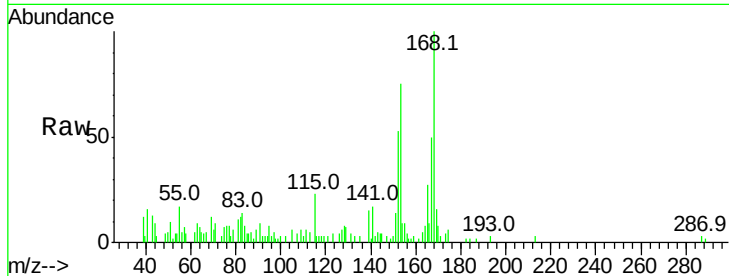




#53
2,4-Dinitrophenol
Concen: 8.693 ng
RT: 10.31 min Scan# 1356
Delta R.T. 0.25 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

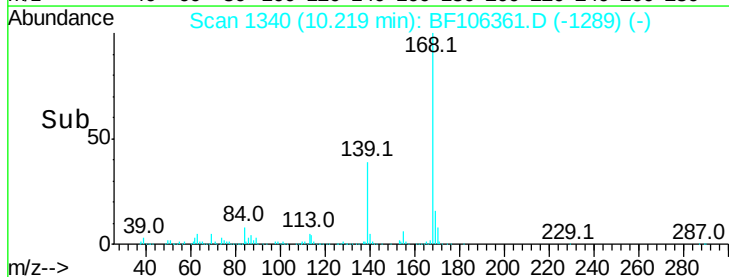
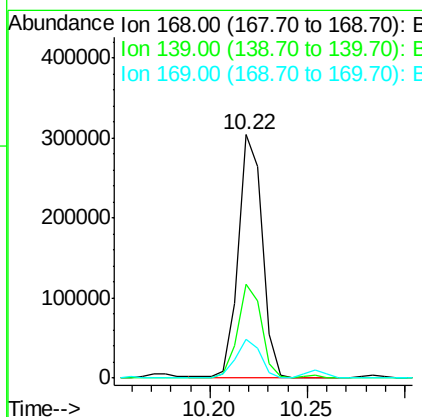
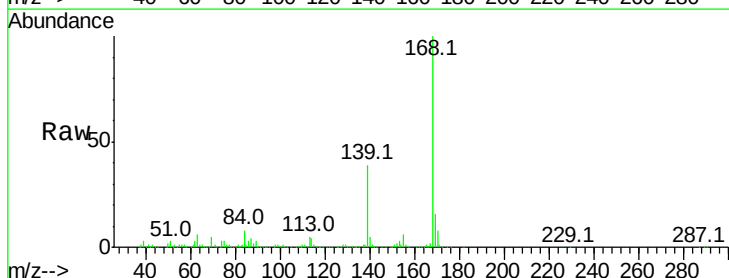
Instrument :
BNA_F
ClientSampleId :

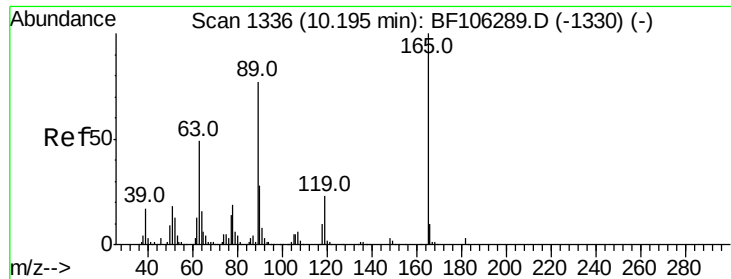
Tot Ion:184 Resp: 118
Ion Ratio Lower Upper
184 100
63 393.4 54.2 81.2#
154 382.4 184.0 276.0#



#54
Dibenzofuran
Concen: 15.828 ng
RT: 10.22 min Scan# 1340
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:168 Resp: 258007
Ion Ratio Lower Upper
168 100
139 38.8 30.1 45.1
169 16.1 10.9 16.3

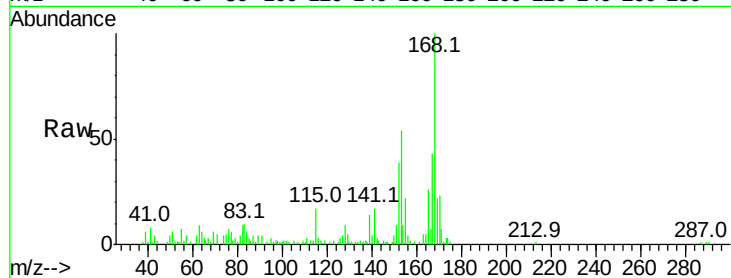




#56
2,4-Dinitrotoluene
Concen: 3.101 ng
RT: 10.32 min Scan# 1357
Delta R.T. 0.12 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	35.1	36.4	54.6#
89	16.5	57.8	86.6#
182	0.0	1.6	2.4#

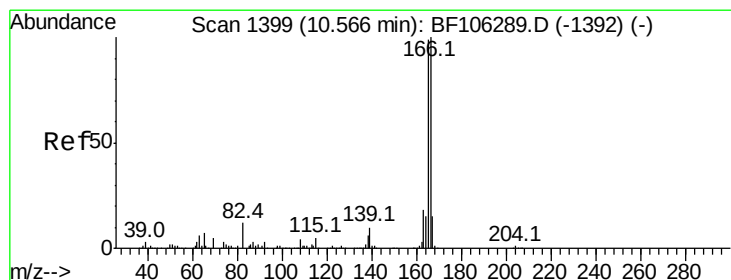
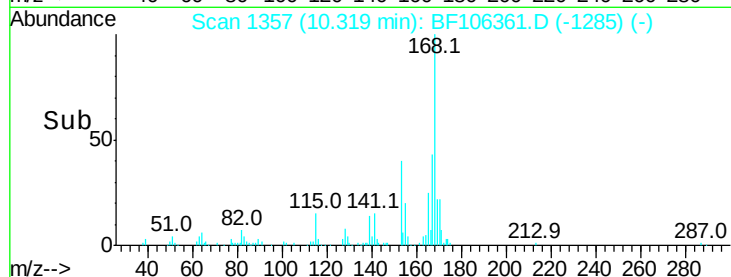
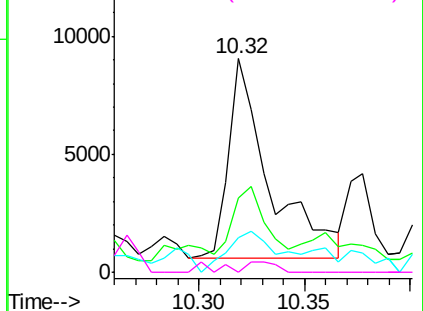


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

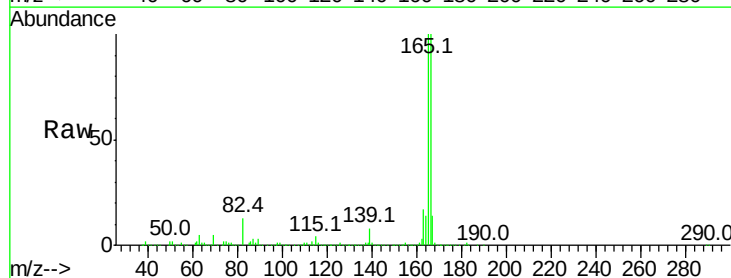
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 32.399 ng
RT: 10.57 min Scan# 1399
Delta R.T. 0.00 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

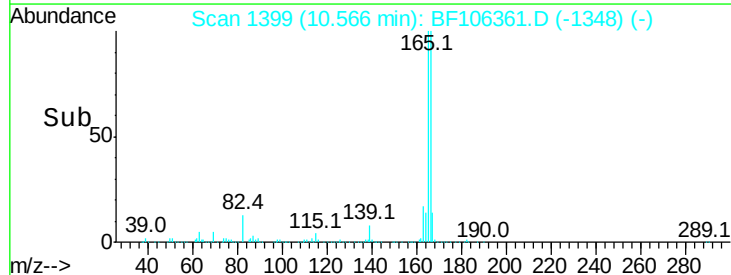
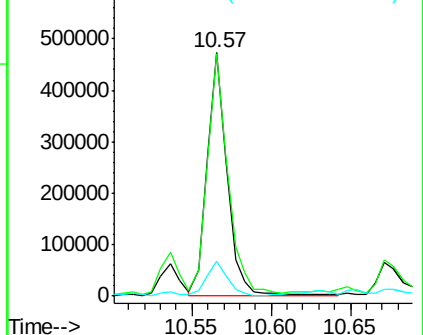
Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	14.2	10.6	16.0

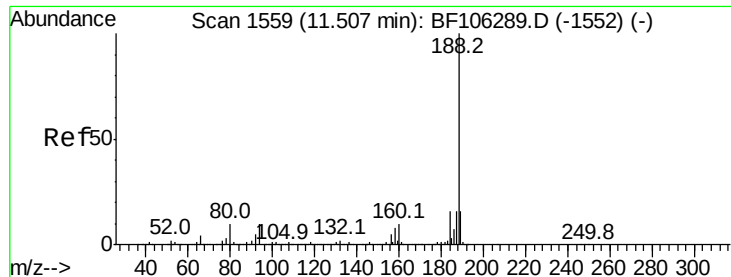


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

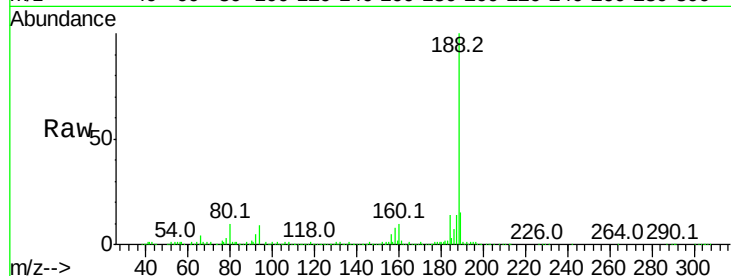




#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1560
Delta R.T. 0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

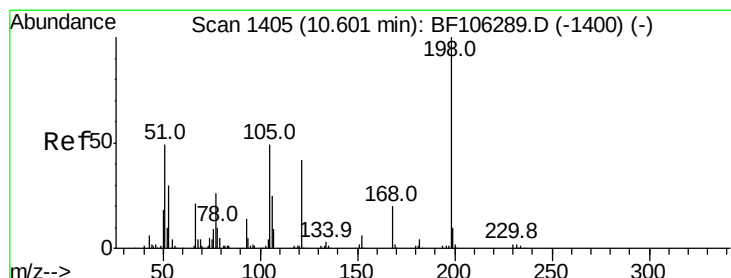
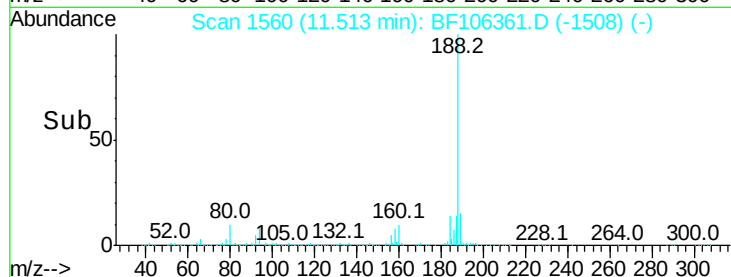
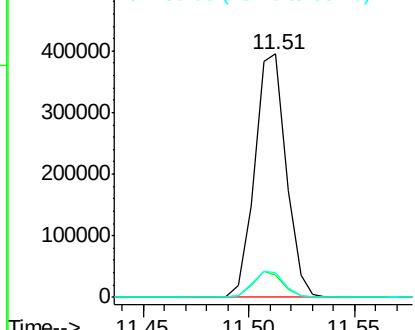
Tot Ion	Ratio	Lower	Upper
188	100		
94	9.0	8.5	12.7
80	10.0	9.2	13.8



Abundance Ion 188.00 (187.70 to 188.70): E

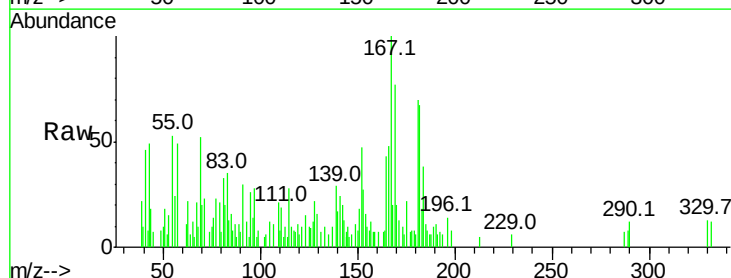
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64
4,6-Dinitro-2-methylphenol
Concen: 6.553 ng
RT: 10.84 min Scan# 1446
Delta R.T. 0.24 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

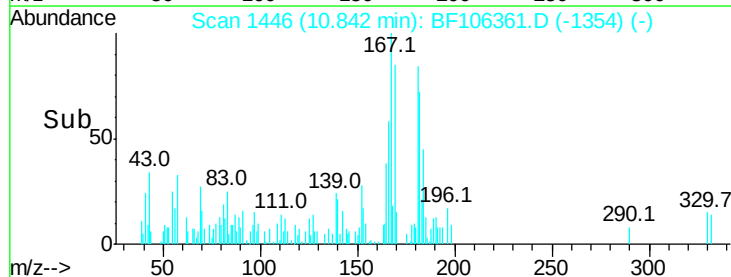
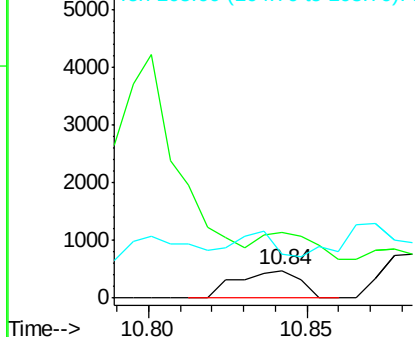
Tgt Ion	Ratio	Lower	Upper
198	100		
51	238.0	37.7	77.7#
105	160.5	36.3	76.3#

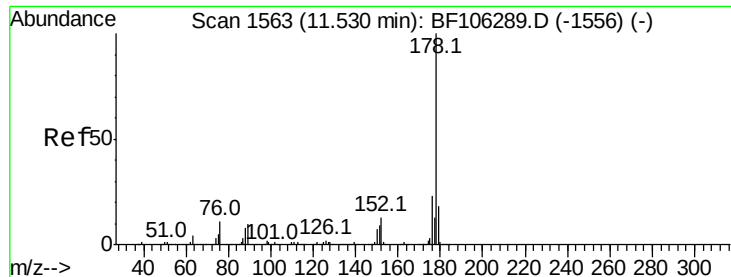


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 44.484 ng

RT: 11.59 min Scan# 1573

Delta R.T. 0.06 min

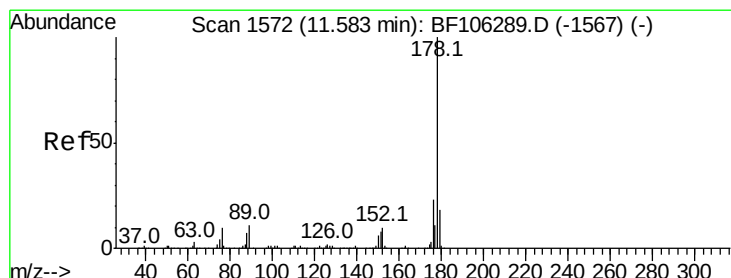
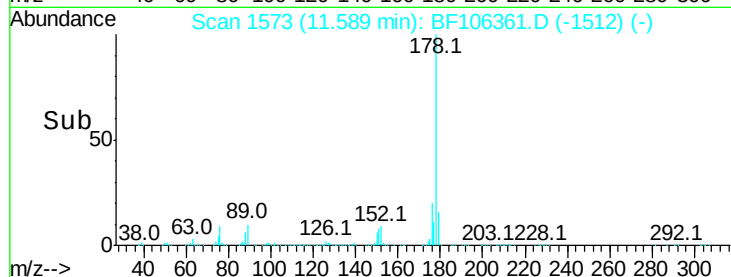
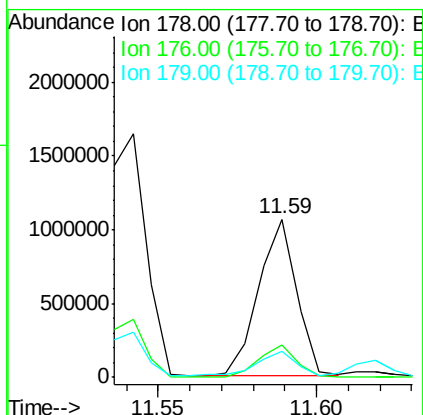
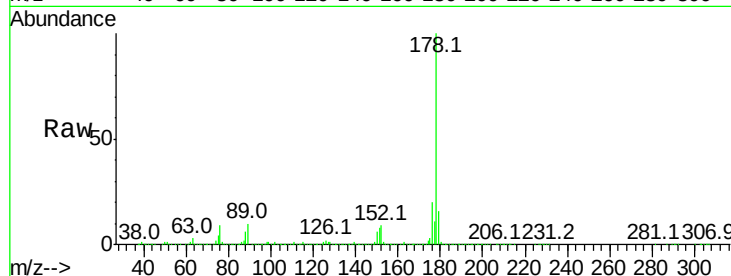
Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 894137

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.8	23.8
179	16.4	13.0	19.6



#71

Anthracene

Concen: 44.403 ng

RT: 11.59 min Scan# 1573

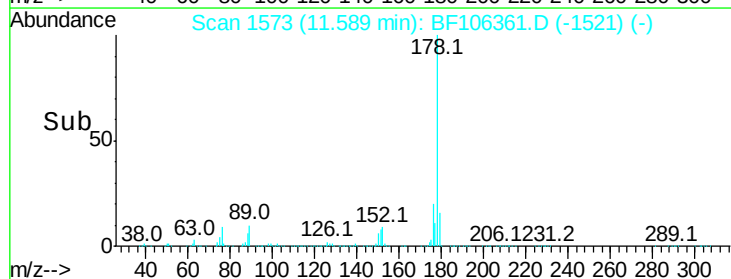
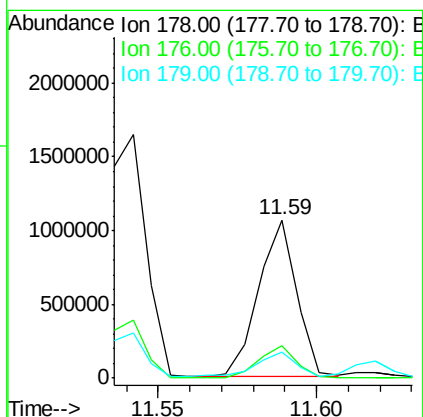
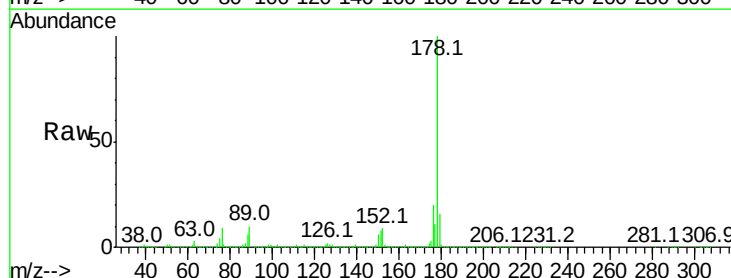
Delta R.T. 0.01 min

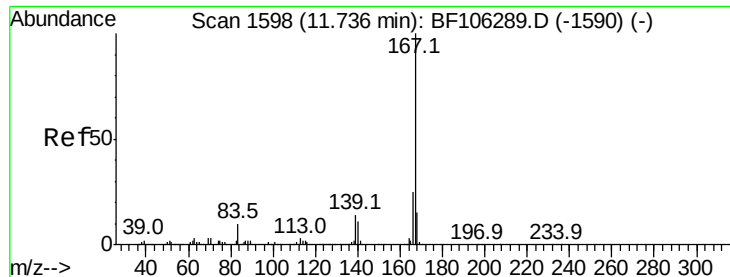
Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:178 Resp: 894137

Ion	Ratio	Lower	Upper
178	100		
176	20.4	15.4	23.2
179	16.4	12.6	19.0





#72

Carbazole

Concen: 9.759 ng

RT: 11.74 min Scan# 1599

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

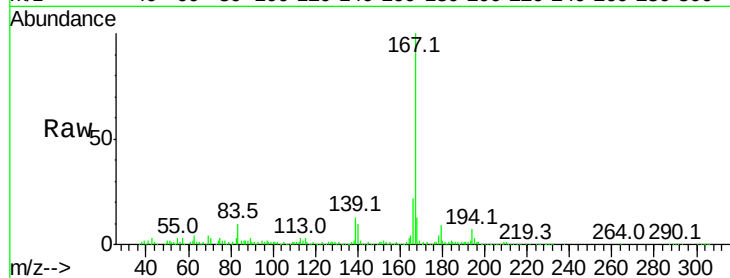
Tot Ion:167 Resp: 181423

Ion Ratio Lower Upper

167 100

166 21.9 17.6 26.4

139 12.7 10.9 16.3

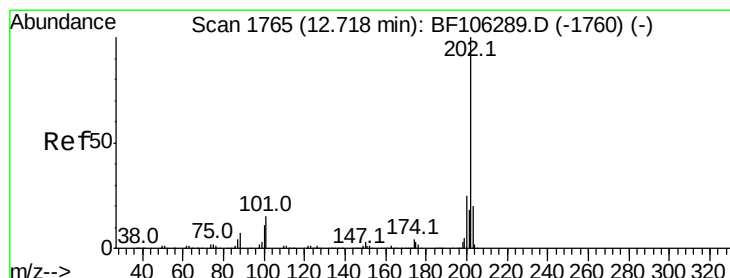
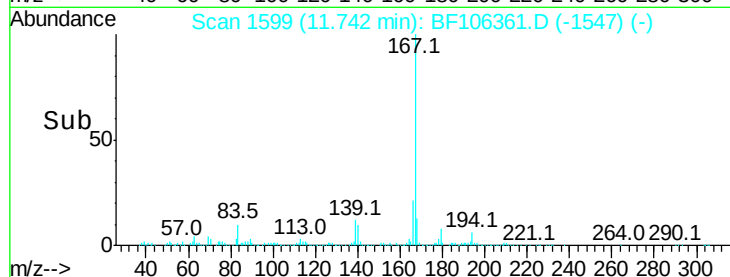


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



#74

Fluoranthene

Concen: 123.411 ng

RT: 12.74 min Scan# 1769

Delta R.T. 0.02 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

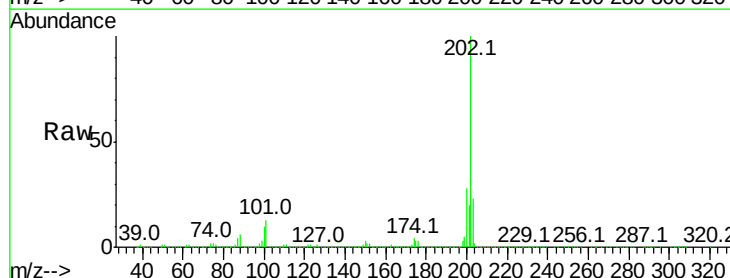
Tgt Ion:202 Resp: 2645413

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.1

203 22.6 0.0 38.1

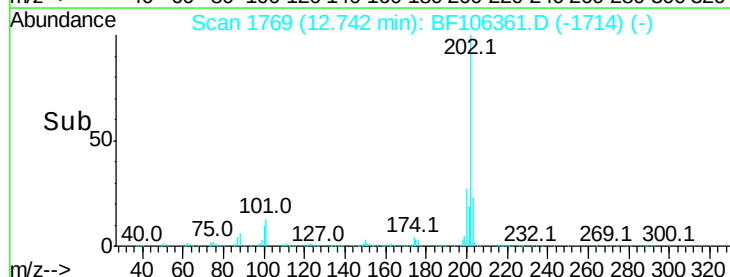


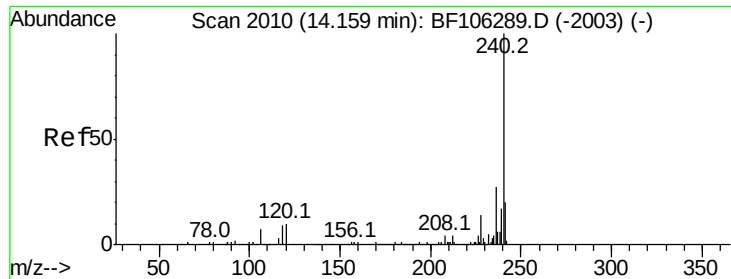
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

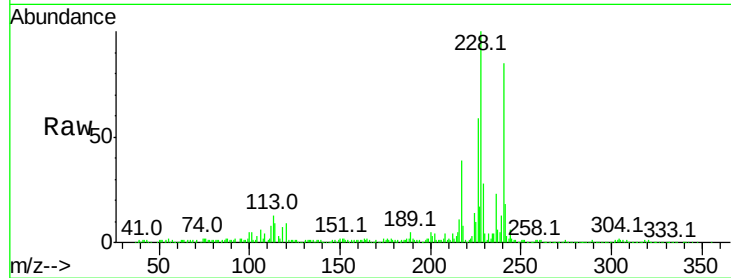
Tot Ion:240 Resp: 317790

Ion Ratio Lower Upper

240 100

120 10.7 9.5 14.3

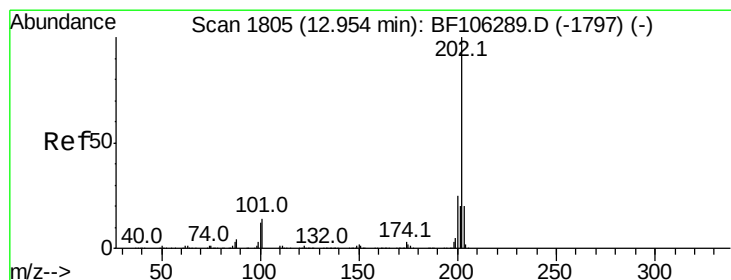
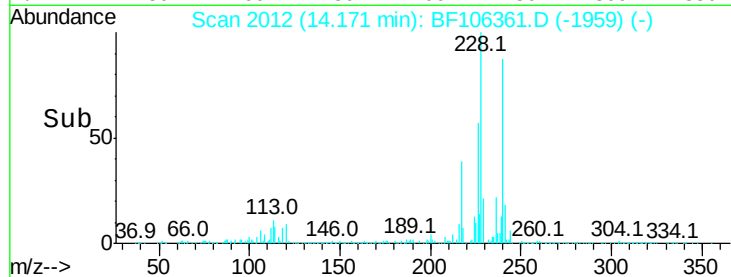
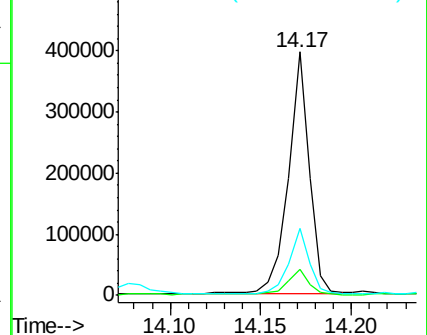
236 27.4 20.7 31.1



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: 135.489 ng

RT: 12.98 min Scan# 1809

Delta R.T. 0.02 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

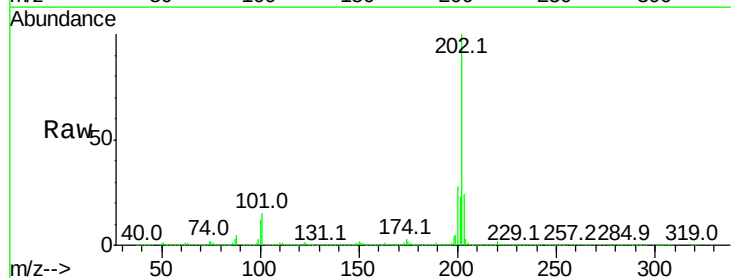
Tgt Ion:202 Resp: 2695642

Ion Ratio Lower Upper

202 100

200 27.6 17.4 26.2#

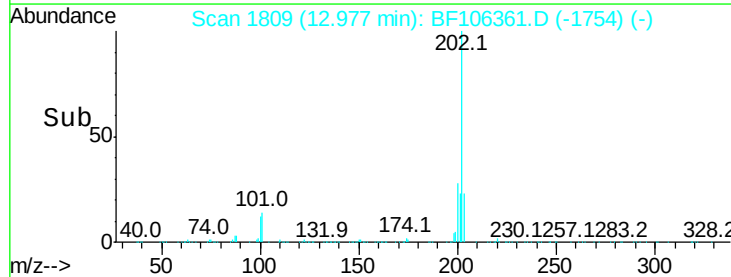
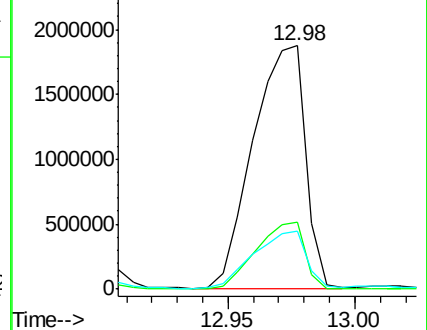
203 23.8 14.3 21.5#

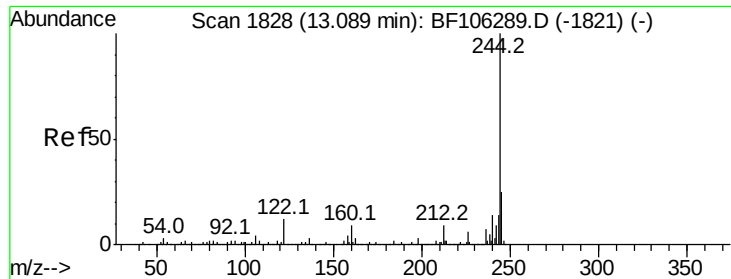


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.515 ng

RT: 13.09 min Scan# 1828

Delta R.T. 0.00 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

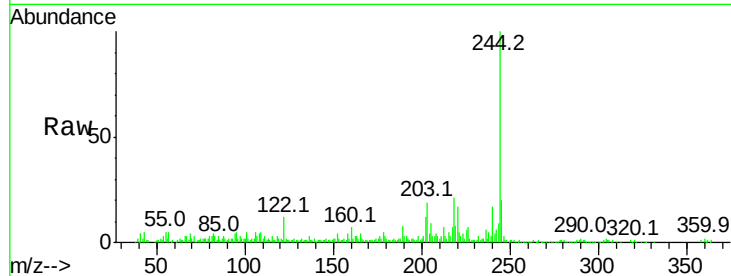
Tot Ion:244 Resp: 147325

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

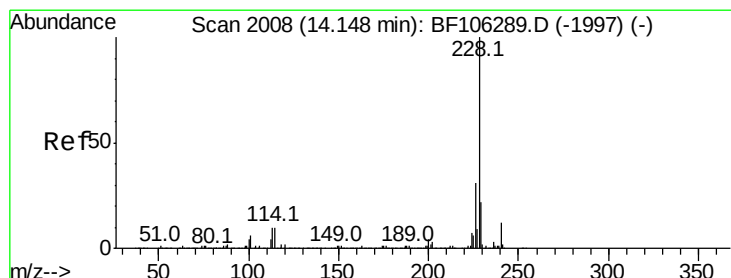
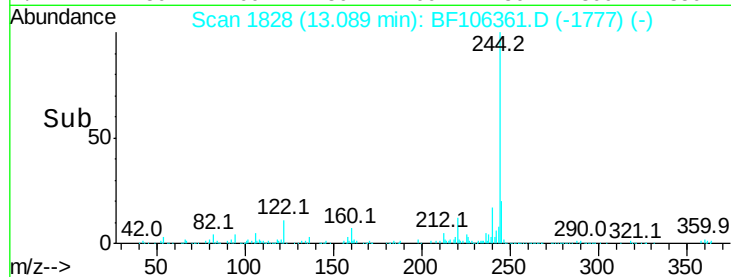
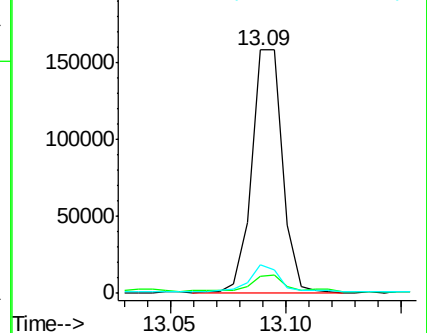
122 11.6 11.0 16.4



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: 109.435 ng

RT: 14.16 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

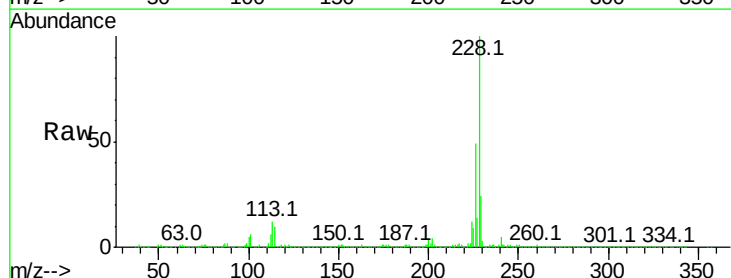
Tgt Ion:228 Resp: 2069575

Ion Ratio Lower Upper

228 100

226 48.7 22.6 33.8#

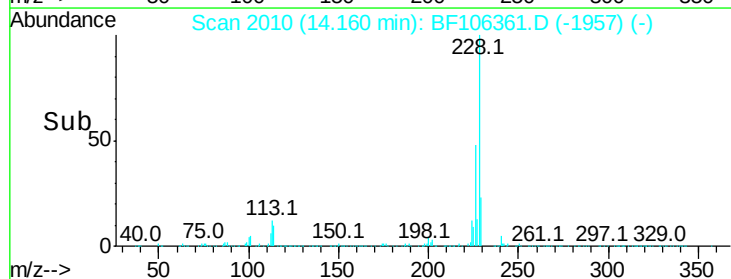
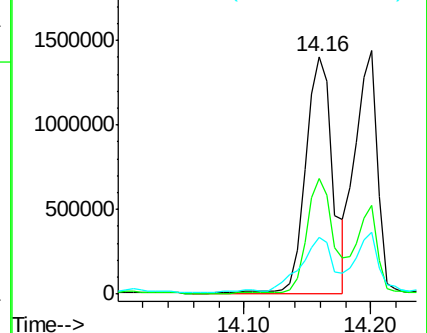
229 23.7 15.8 23.6#

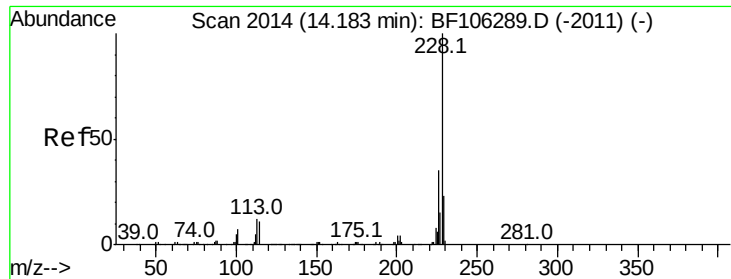


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

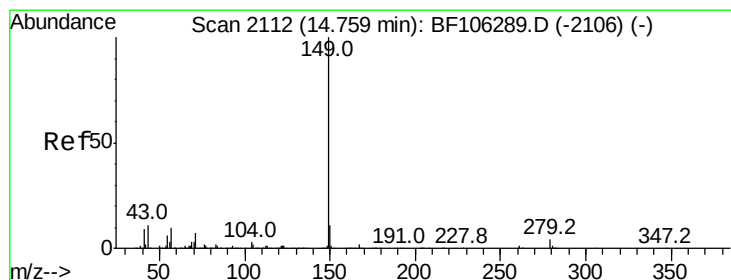
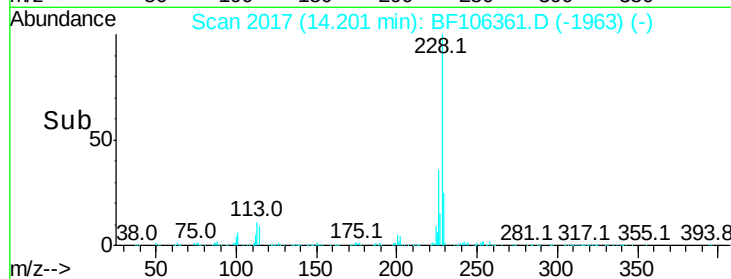
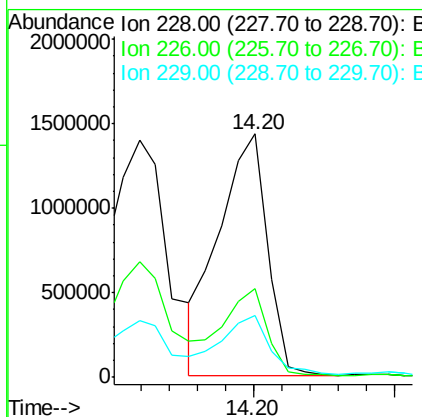
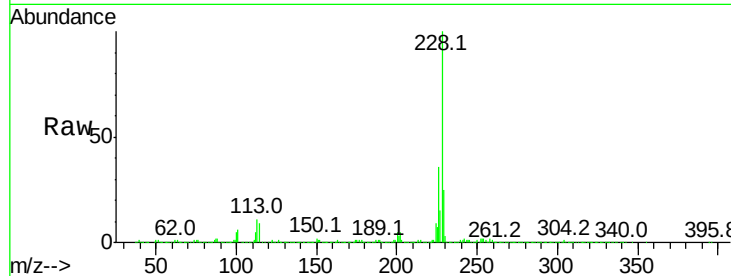




#82
Chrysene
Concen: 98.930 ng
RT: 14.20 min Scan# 2017
Delta R.T. 0.02 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

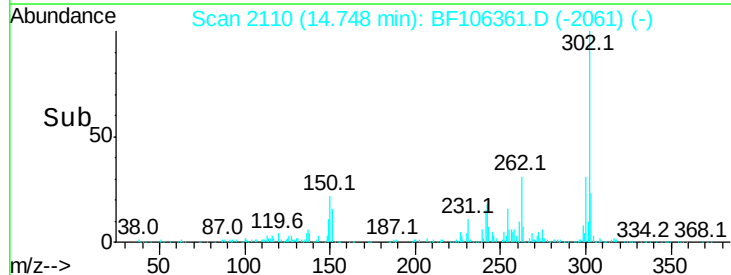
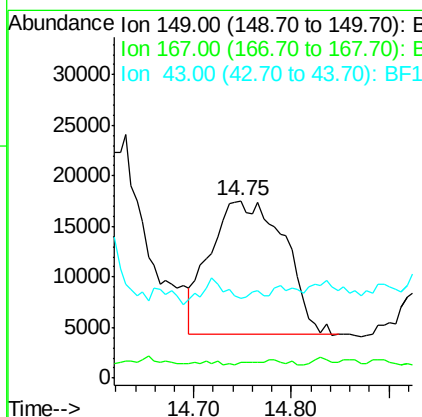
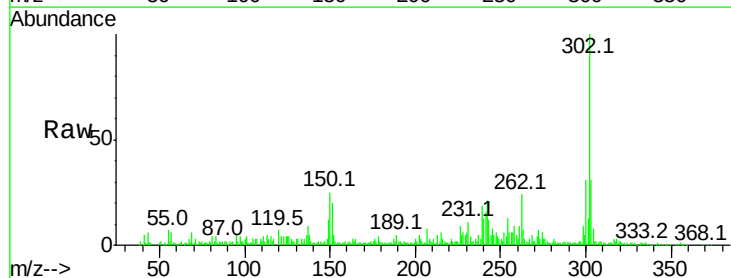
Instrument :
BNA_F
ClientSampleId :

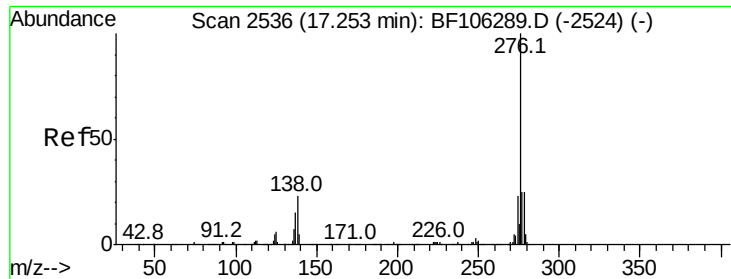
Tot Ion:228 Resp: 1708142
Ion Ratio Lower Upper
228 100
226 36.3 25.0 37.6
229 25.5 16.2 24.4#



#84
Di-n-octyl phthalate
Concen: 4.562 ng
RT: 14.75 min Scan# 2110
Delta R.T. -0.01 min
Lab File: BF106361.D
Acq: 12 Jun 2018 22:44

Tgt Ion:149 Resp: 70235
Ion Ratio Lower Upper
149 100
167 0.4 1.2 1.8#
43 1.1 8.4 12.6#





#85

Indeno(1,2,3-cd)pyrene

Concen: 87.850 ng

RT: 17.30 min Scan# 2544

Delta R.T. 0.05 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampleId :

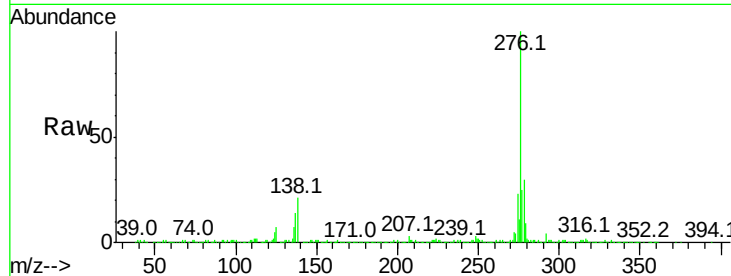
Tot Ion:276 Resp: 1210568

Ion Ratio Lower Upper

276 100

138 21.1 25.0 37.6#

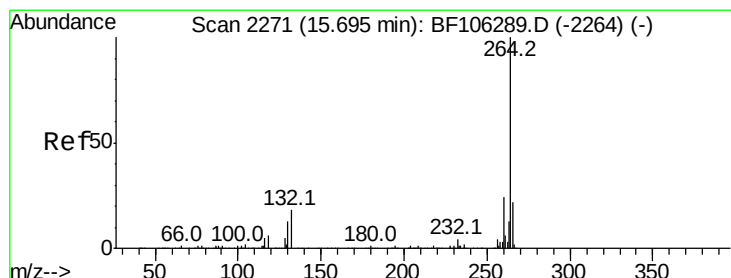
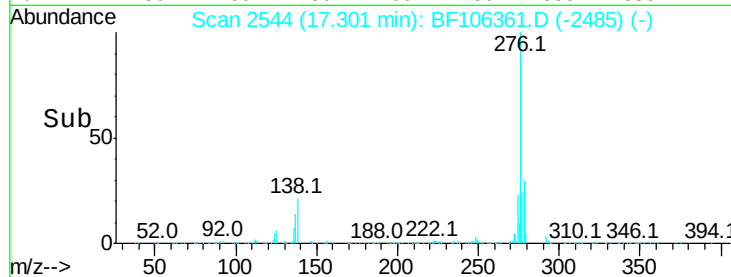
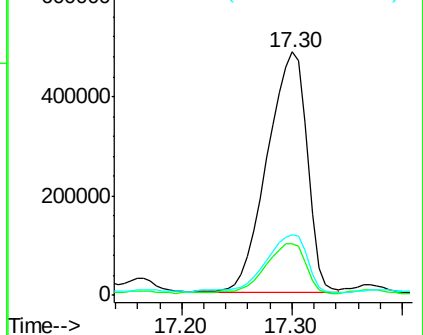
277 25.7 20.1 30.1



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

Perylene-d12

Concen: 20.000 ng

RT: 15.71 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

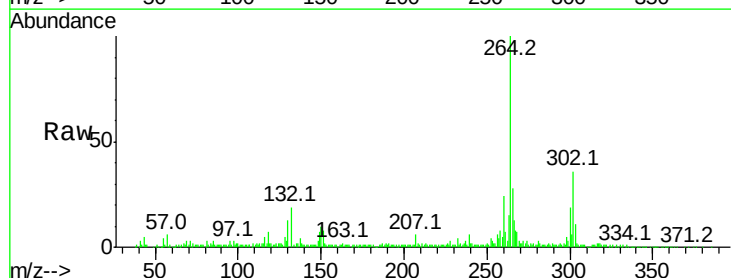
Tgt Ion:264 Resp: 279448

Ion Ratio Lower Upper

264 100

260 24.4 19.2 28.8

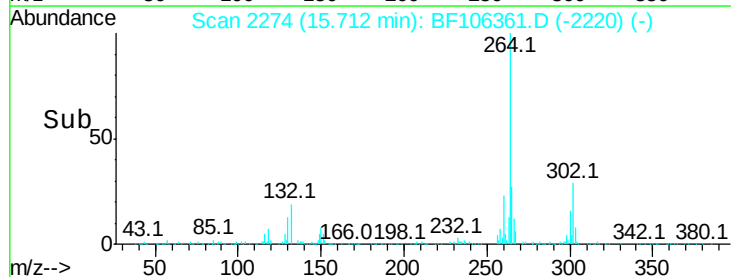
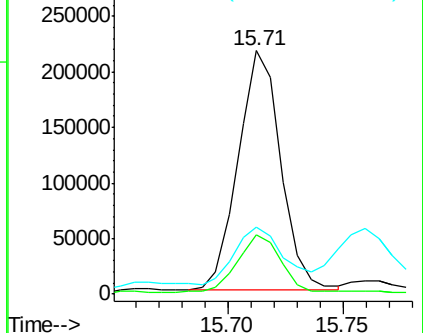
265 27.7 17.5 26.3#

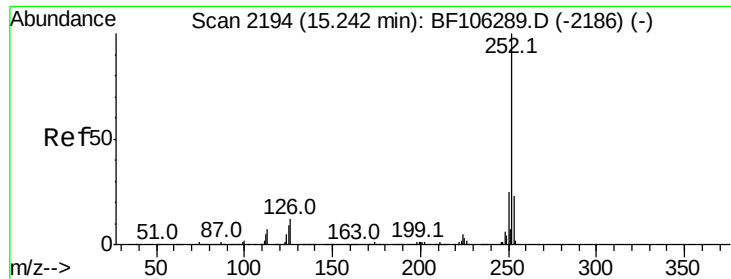


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 194.237 ng

RT: 15.27 min Scan# 2198

Delta R.T. 0.02 min

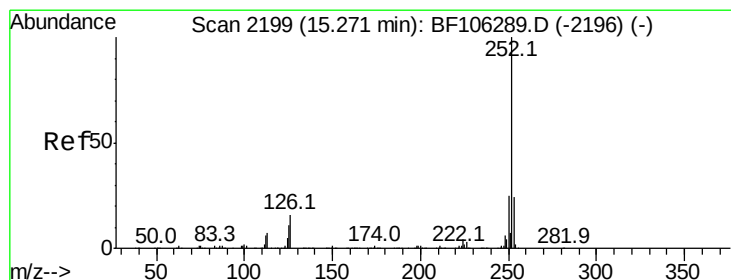
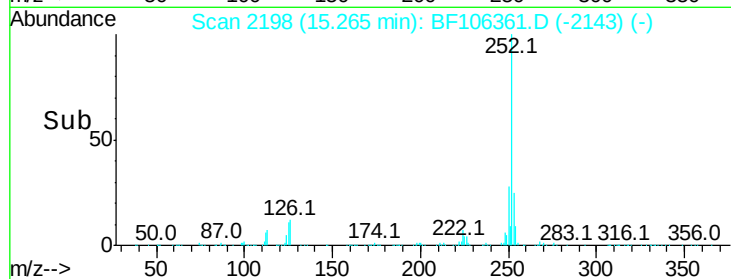
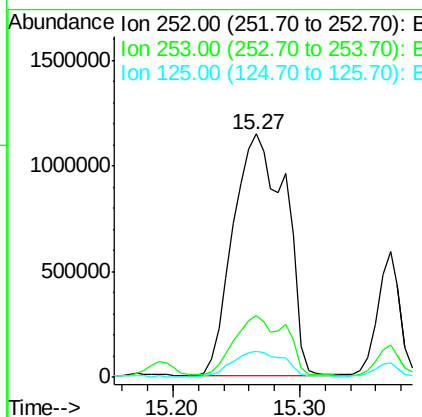
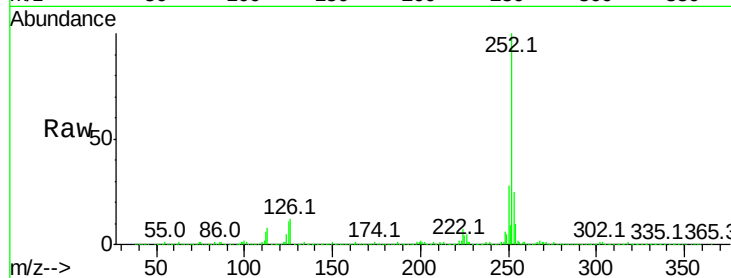
Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 3281103

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.0	25.6
125	10.9	9.0	13.6



#88

Benzo(k)fluoranthene

Concen: 196.125 ng

RT: 15.27 min Scan# 2198

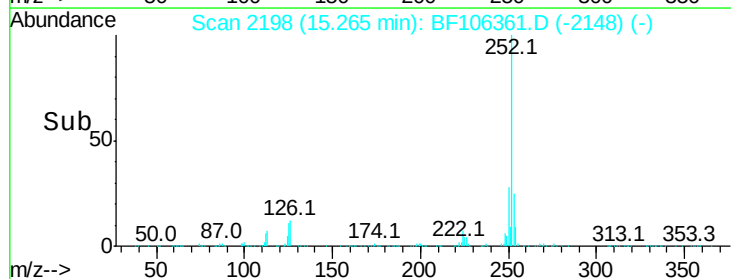
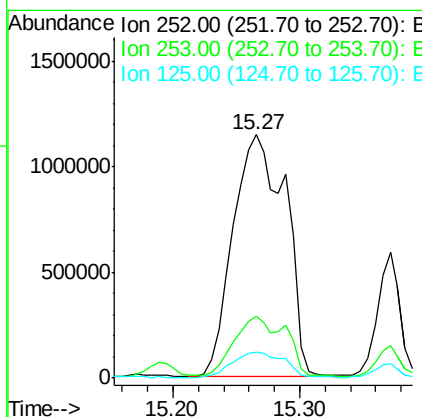
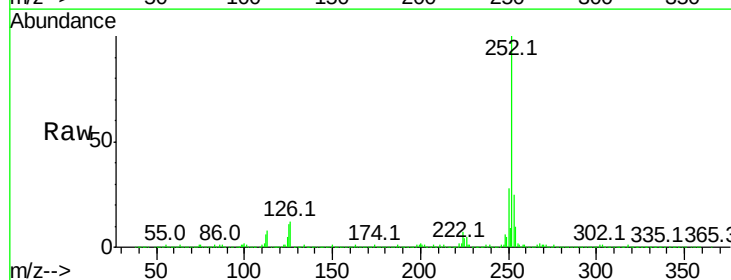
Delta R.T. -0.01 min

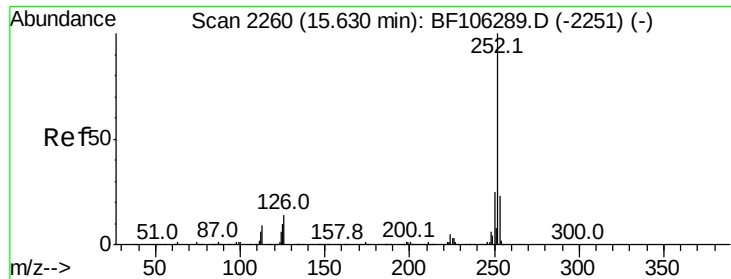
Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Tgt Ion:252 Resp: 3281103

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.9	26.9
125	10.9	10.2	15.2





#89

Benzo(a)pyrene

Concen: 123.035 ng

RT: 15.66 min Scan# 2265

Delta R.T. 0.03 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

Instrument :

BNA_F

ClientSampled :

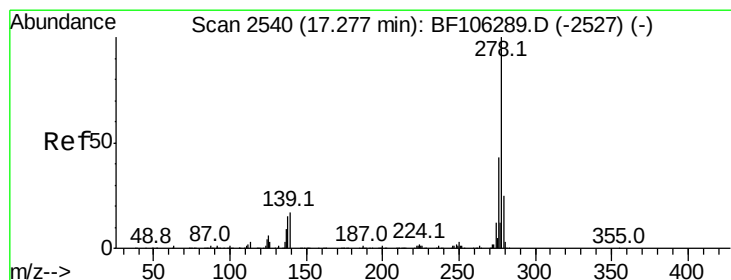
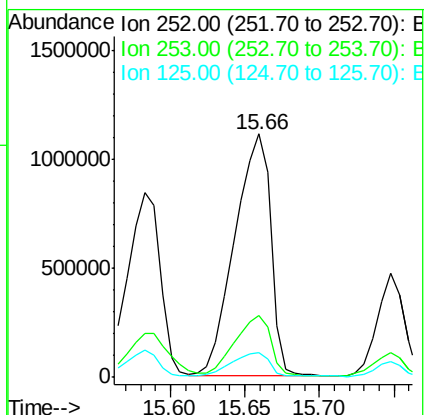
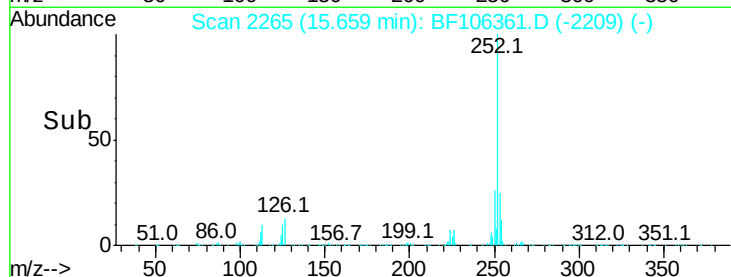
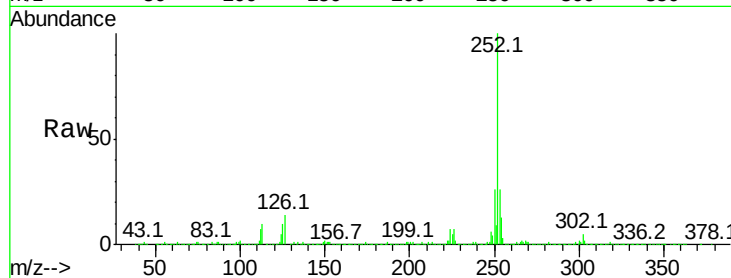
Tot Ion:252 Resp: 1869390

Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.1	25.7
125	10.4	9.8	14.6

252 100

253 25.5 17.1 25.7

125 10.4 9.8 14.6



#90

Dibenzo(a,h)anthracene

Concen: 24.512 ng

RT: 17.31 min Scan# 2545

Delta R.T. 0.03 min

Lab File: BF106361.D

Acq: 12 Jun 2018 22:44

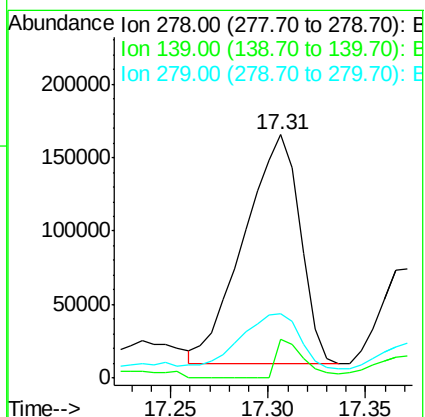
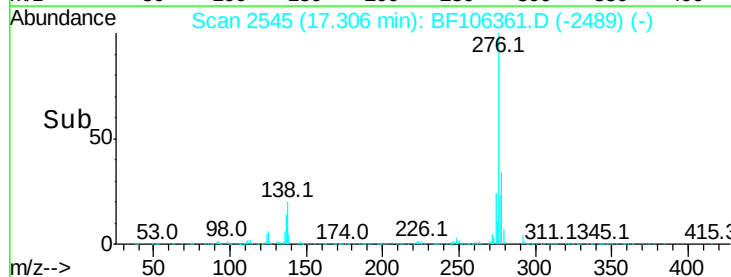
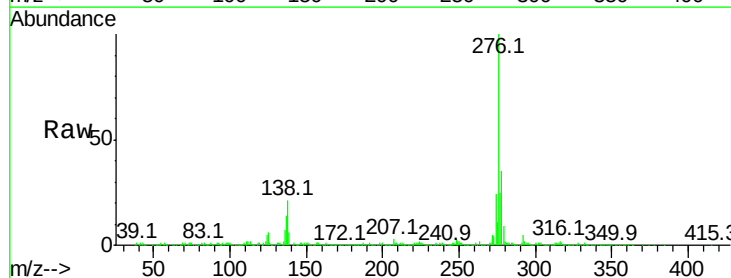
Tgt Ion:278 Resp: 310501

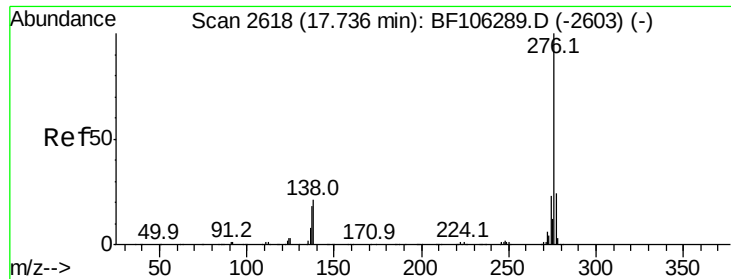
Ion	Ratio	Lower	Upper
278	100		
139	16.1	15.9	23.9
279	26.7	19.0	28.4

278 100

139 16.1 15.9 23.9

279 26.7 19.0 28.4





#91
 Benzo(a,h,i)perylene
 Concen: 98.568 ng
 RT: 17.79 min Scan# 2627
 Delta R.T. 0.05 min
 Lab File: BF106361.D
 Acq: 12 Jun 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:276 Resp: 1213405
 Ion Ratio Lower Upper
 276 100
 277 24.4 17.9 26.9
 138 22.1 21.8 32.8

