

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041219\
 Data File : BF113757.D
 Acq On : 13 Apr 2019 00:21
 Operator : JU/SJ
 Sample : K2196-03 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 13 01:19:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	115085	20.00	ng	-0.02
21) Naphthalene-d8	7.96	136	443771	20.00	ng	-0.01
39) Acenaphthene-d10	9.70	164	194711	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	358946	20.00	ng	-0.02
76) Chrysene-d12	13.82	240	362735	20.00	ng	-0.02
87) Perylene-d12	15.23	264	295508	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.30	112	122291	18.12	ng	0.00
7) Phenol-d6	6.35	99	164734	19.80	ng	0.00
23) Nitrobenzene-d5	7.25	82	90549	11.95	ng	-0.01
42) 2,4,6-Tribromophenol	10.50	330	37383	15.98	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	193527	16.00	ng	-0.02
79) Terphenyl-d14	12.76	244	205194	11.52	ng	-0.03

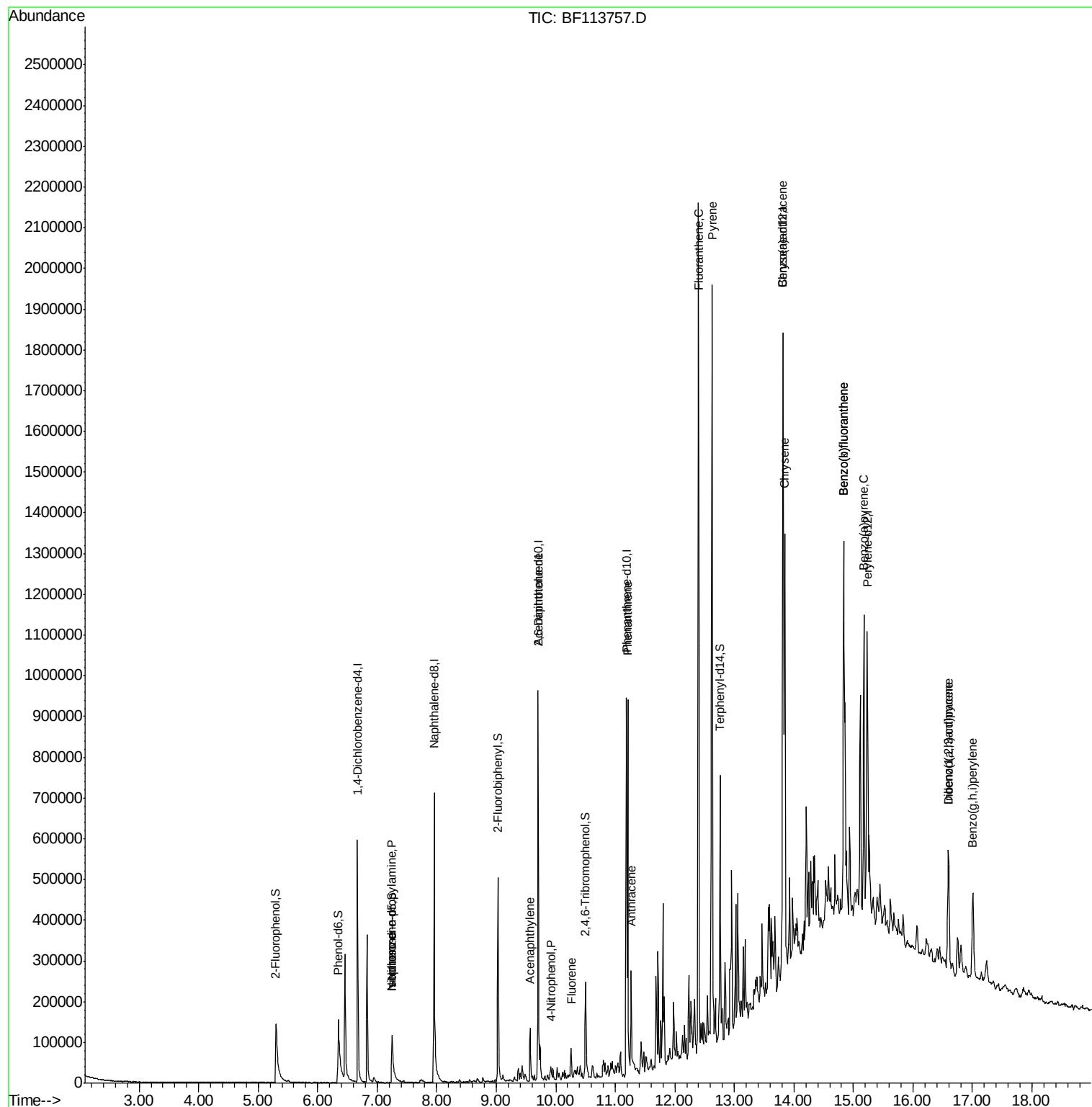
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.25	70	11807	2.302	ng	# 78
25) Isophorone	7.25	82	90549	6.204	ng	# 64
49) Acenaphthylene	9.57	152	62247	3.147	ng	98
51) 2,6-Dinitrotoluene	9.70	165	26027	8.227	ng	# 27
56) 4-Nitrophenol	9.92	139	4485	2.010	ng	# 14
58) Fluorene	10.26	166	29968	2.281	ng	100
71) Phenanthrene	11.21	178	363532	20.382	ng	98
72) Anthracene	11.26	178	129126	7.116	ng	98
75) Fluoranthene	12.40	202	849292	44.436	ng	99
78) Pyrene	12.63	202	841753	30.498	ng	99
81) Benzo(a)anthracene	13.82	228	506973	24.229	ng	98
83) Chrysene	13.85	228	456489	21.521	ng	98
86) Indeno(1,2,3-cd)pyrene	16.60	276	180618	9.223	ng	95
88) Benzo(b)fluoranthene	14.84	252	711002	39.306	ng	98
89) Benzo(k)fluoranthene	14.84	252	711002	43.796	ng	97
90) Benzo(a)pyrene	15.17	252	370844	23.072	ng	98
91) Dibenzo(a,h)anthracene	16.59	278	48834	3.249	ng	# 85
92) Benzo(g,h,i)perylene	17.01	276	176554	11.508	ng	98

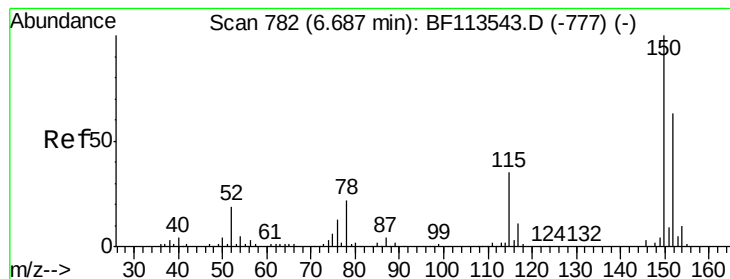
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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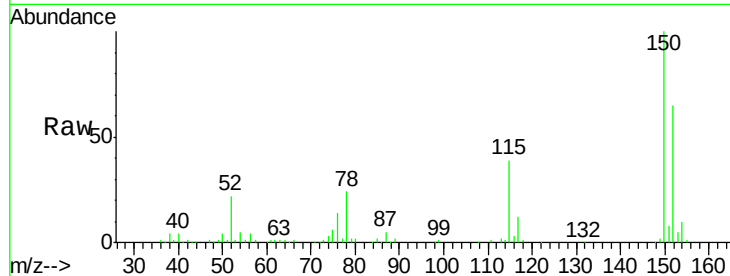


#1

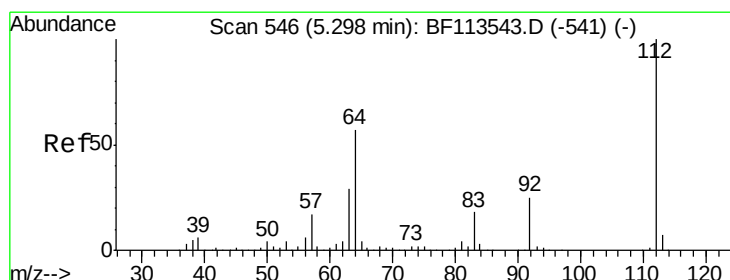
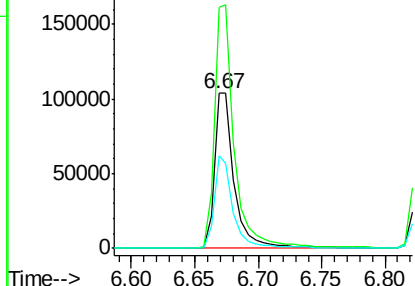
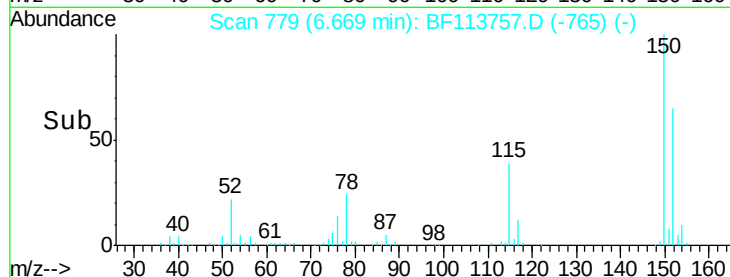
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 779
Delta R.T. -0.02 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 115085
Ion Ratio Lower Upper
152 100
150 155.0 124.7 187.1
115 59.9 46.0 69.0



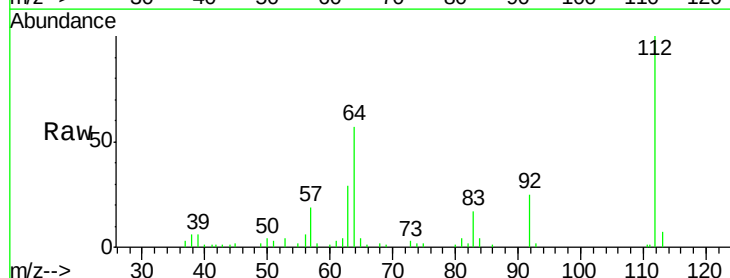
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



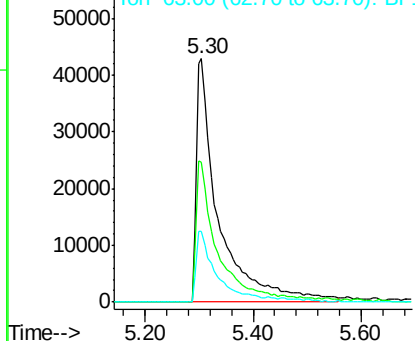
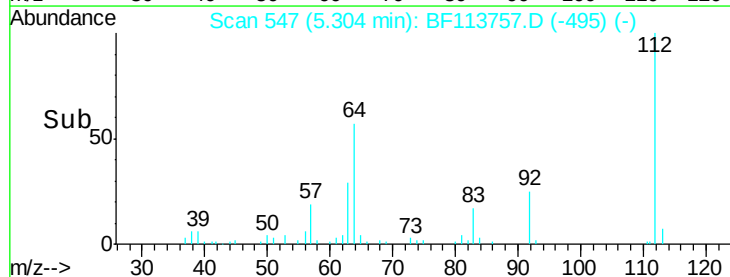
#5

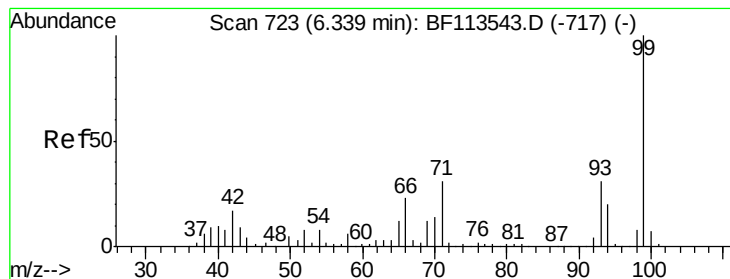
2-Fluorophenol
Concen: 18.120 ng
RT: 5.30 min Scan# 547
Delta R.T. 0.01 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Tgt Ion:112 Resp: 122291
Ion Ratio Lower Upper
112 100
64 57.3 49.2 73.8
63 29.3 24.9 37.3



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: 19.804 ng

RT: 6.35 min Scan# 724

Delta R.T. 0.01 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampleId :

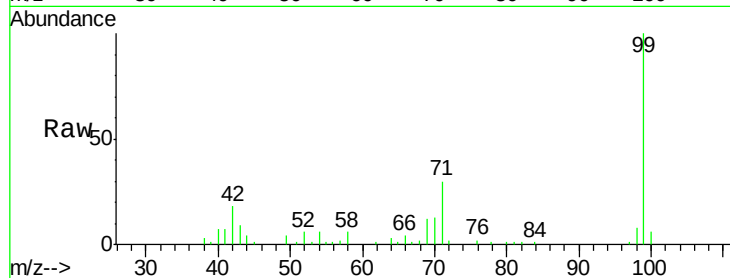
Tot Ion: 99 Resp: 164734

Ion Ratio Lower Upper

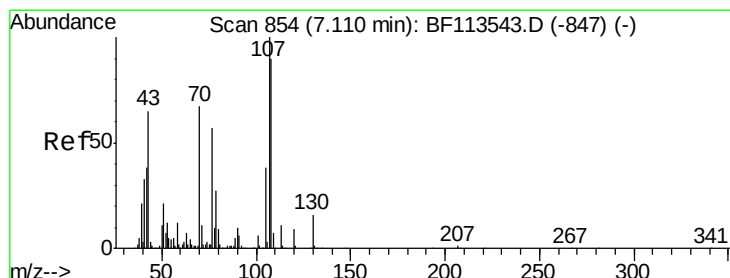
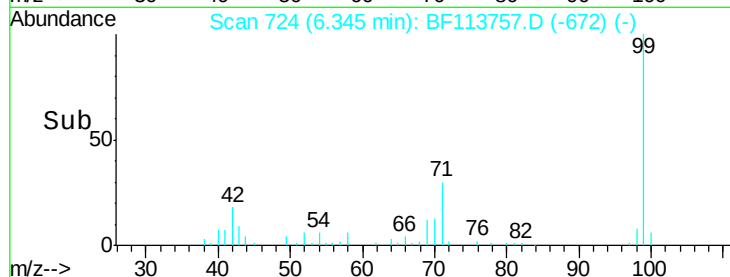
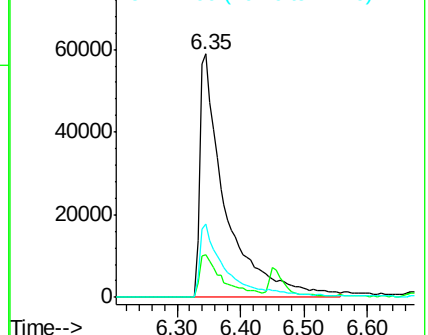
99 100

42 17.7 14.8 22.2

71 30.3 24.9 37.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.302 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.14 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Tgt Ion: 70 Resp: 11807

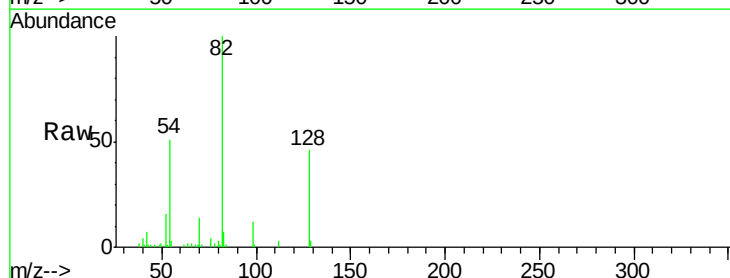
Ion Ratio Lower Upper

70 100

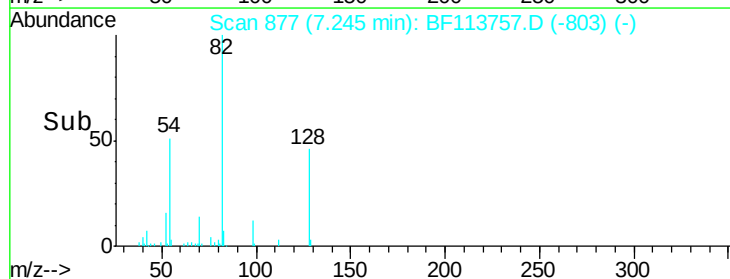
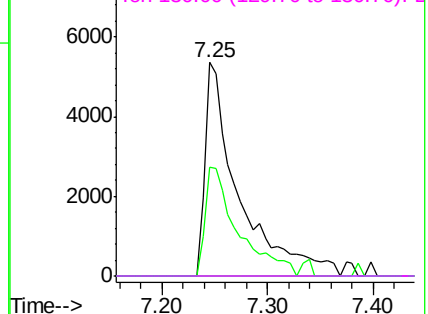
42 51.1 48.4 72.6

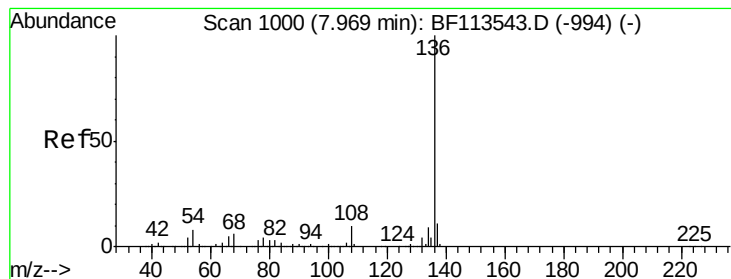
101 0.0 7.8 11.8#

130 0.0 18.2 27.4#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 443771

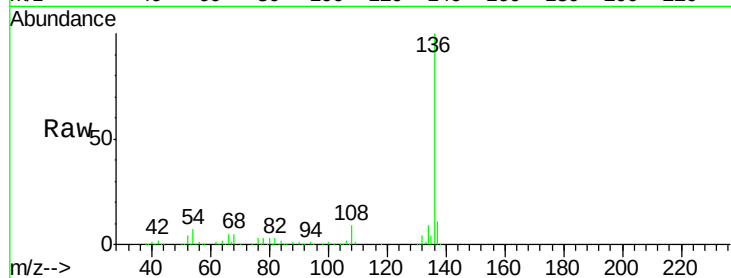
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 7.2 7.0 10.6

68 5.5 4.8 7.2

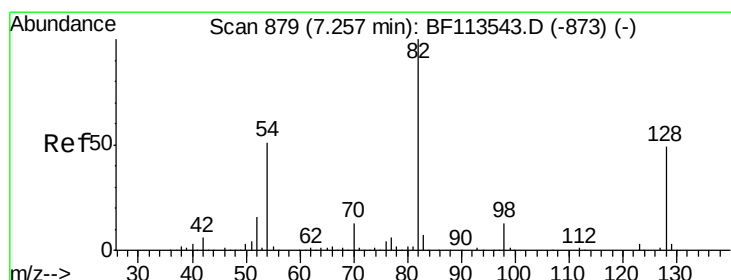
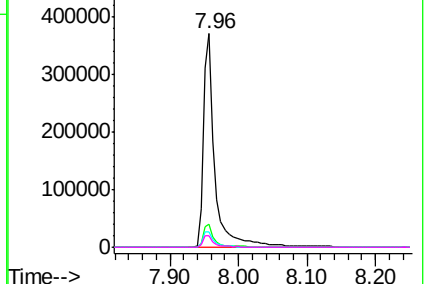
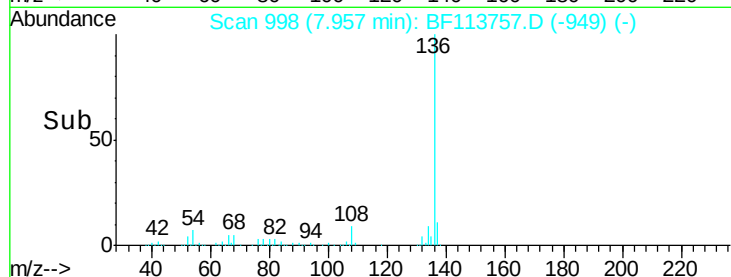


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.952 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

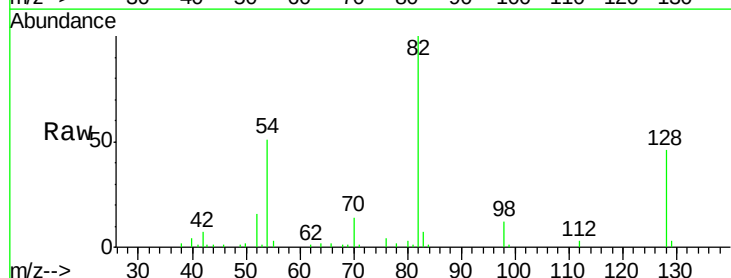
Tgt Ion: 82 Resp: 90549

Ion Ratio Lower Upper

82 100

128 46.4 36.5 54.7

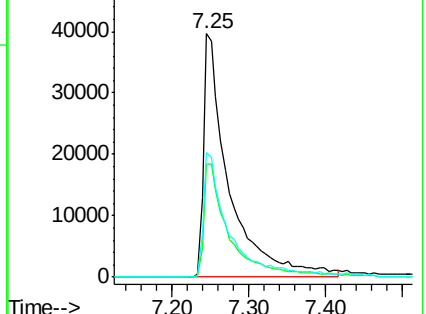
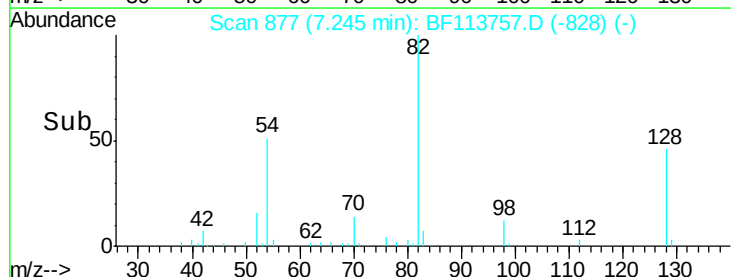
54 51.2 42.2 63.2

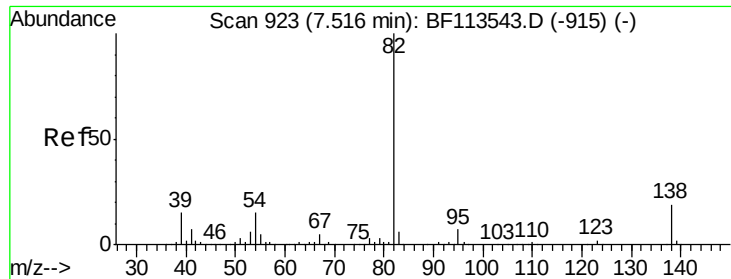


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 6.204 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.27 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampled :

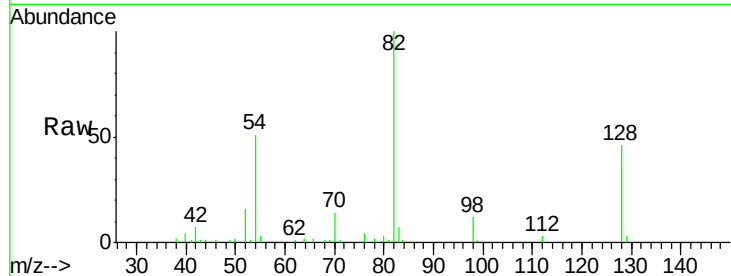
Tot Ion: 82 Resp: 90549

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

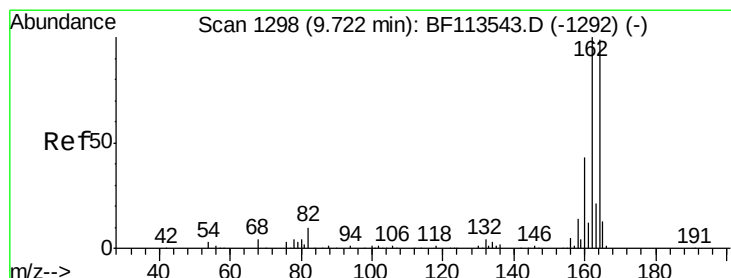
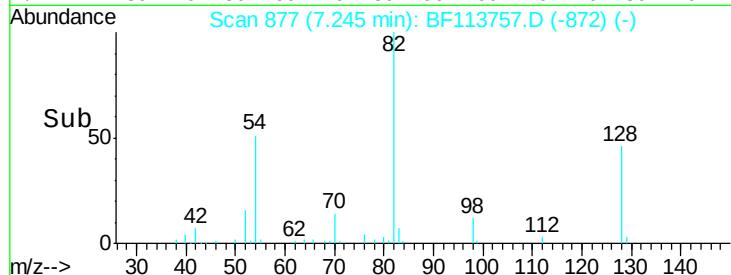
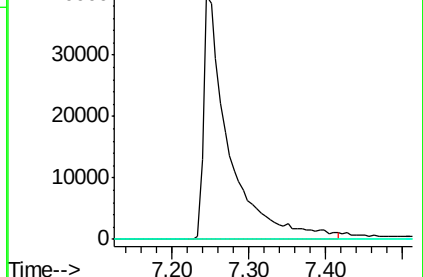
138 0.0 15.2 22.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.70 min Scan# 1295

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

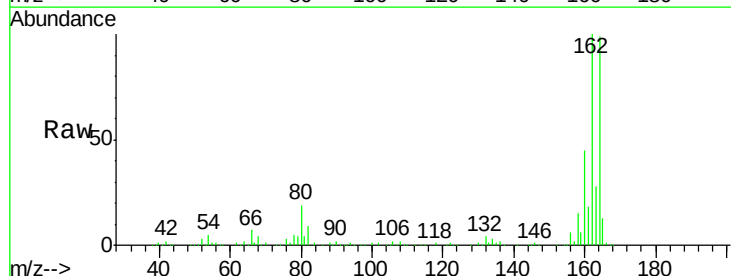
Tgt Ion: 164 Resp: 194711

Ion Ratio Lower Upper

164 100

162 100.9 81.8 122.6

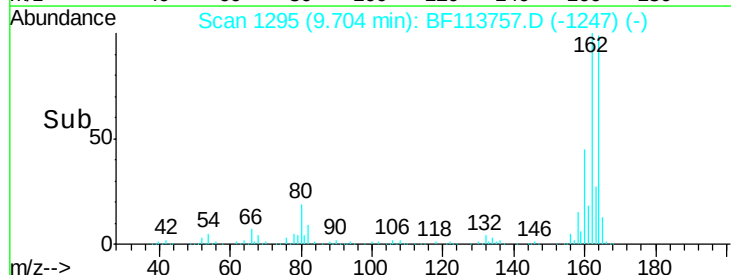
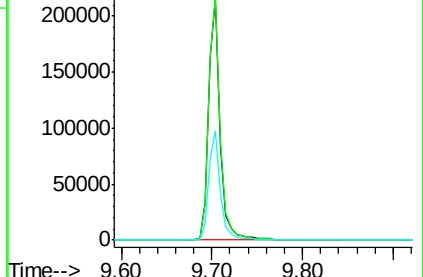
160 45.4 36.4 54.6

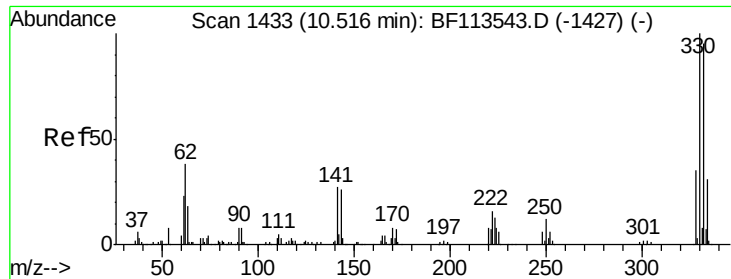


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 15.983 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampleId :

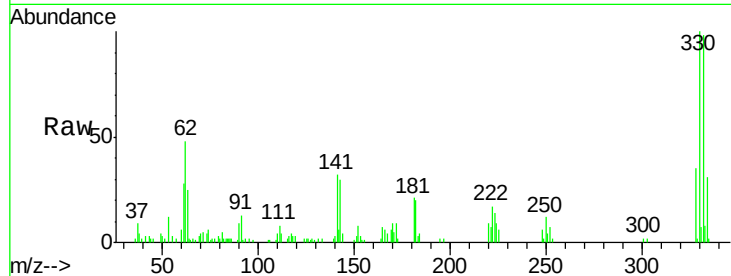
Tot Ion:330 Resp: 37383

Ion Ratio Lower Upper

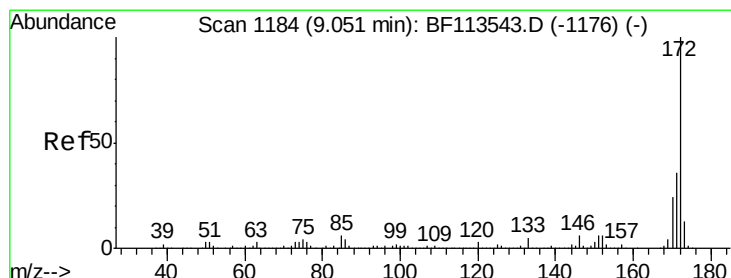
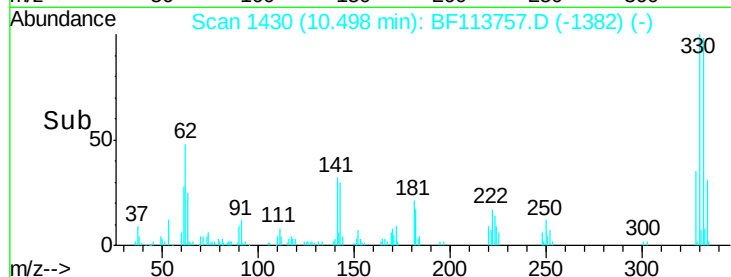
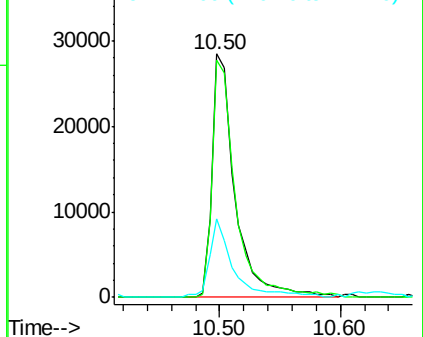
330 100

332 99.5 77.8 116.6

141 33.2 22.7 34.1



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



#45

2-Fluorobiphenyl

Concen: 16.001 ng

RT: 9.03 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

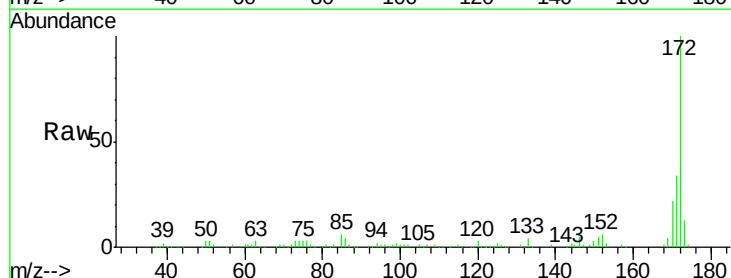
Tgt Ion:172 Resp: 193527

Ion Ratio Lower Upper

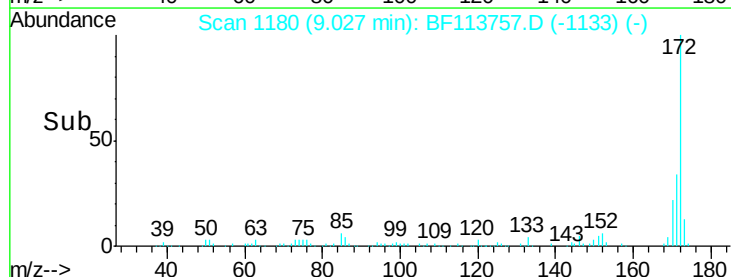
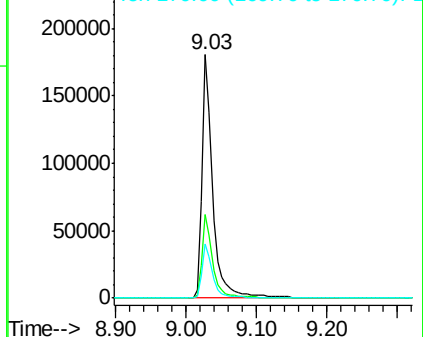
172 100

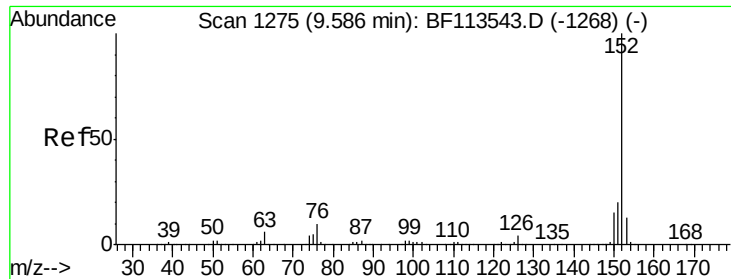
171 34.2 29.0 43.6

170 22.3 19.5 29.3



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





#49

Acenaphthylene

Concen: 3.147 ng

RT: 9.57 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

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ClientSampleId :

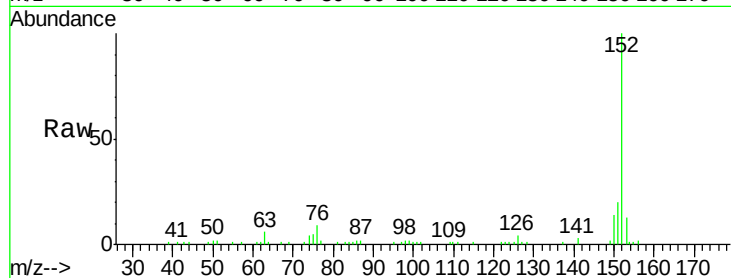
Tot Ion:152 Resp: 62247

Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.4

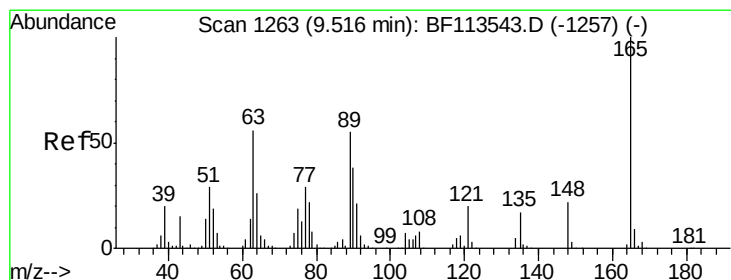
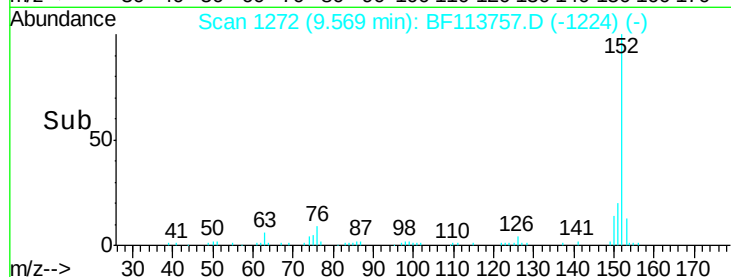
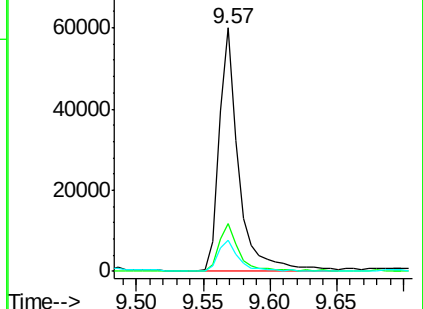
153 12.8 11.0 16.6



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

2,6-Dinitrotoluene

Concen: 8.227 ng

RT: 9.70 min Scan# 1295

Delta R.T. 0.19 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

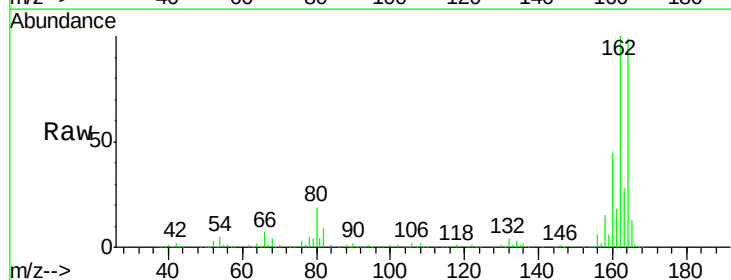
Tgt Ion:165 Resp: 26027

Ion Ratio Lower Upper

165 100

63 1.6 43.4 65.0#

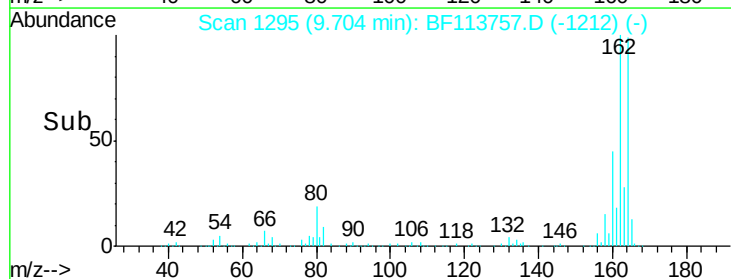
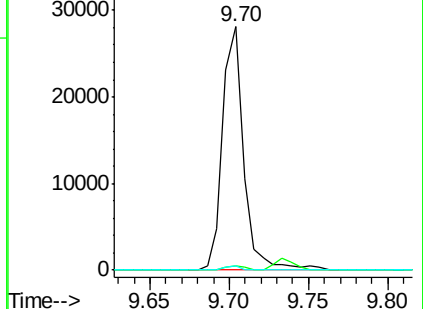
89 1.7 43.1 64.7#

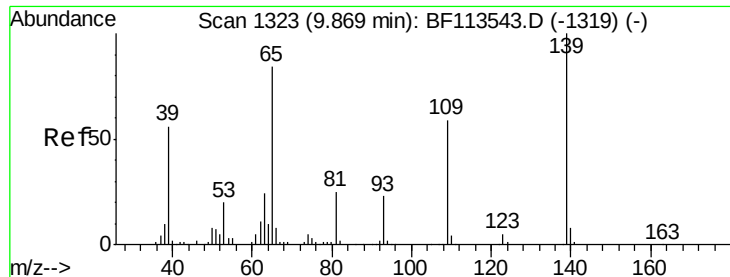


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#56

4-Nitrophenol

Concen: 2.010 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.05 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampleId :

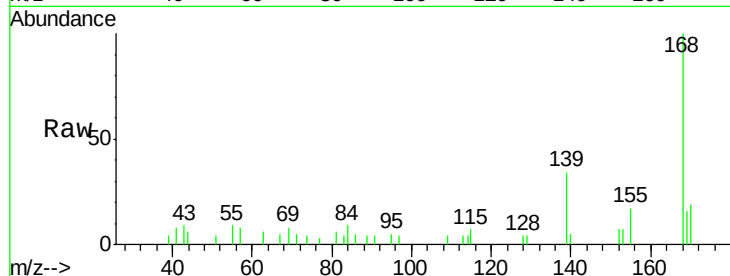
Tot Ion:139 Resp: 4485

Ion Ratio Lower Upper

139 100

109 12.6 46.9 86.9#

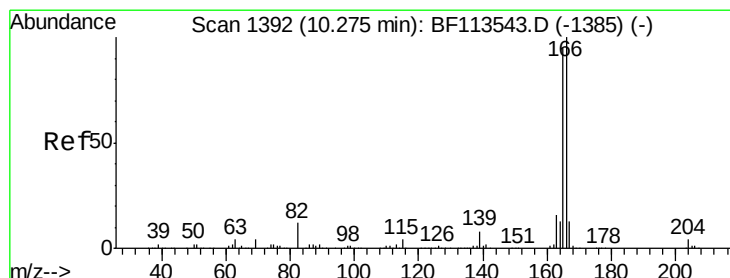
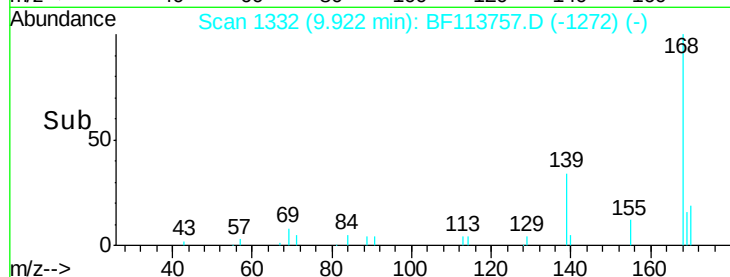
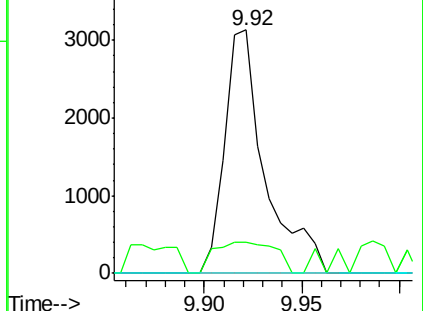
65 0.0 77.2 117.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#58

Fluorene

Concen: 2.281 ng

RT: 10.26 min Scan# 1389

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

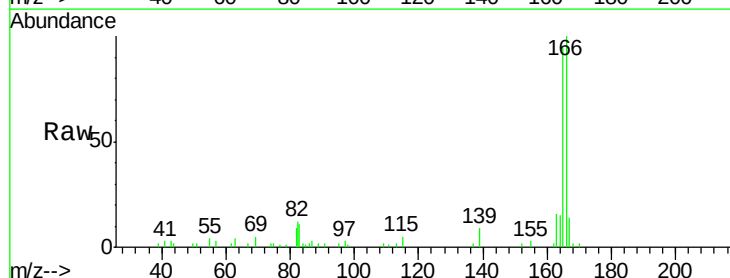
Tgt Ion:166 Resp: 29968

Ion Ratio Lower Upper

166 100

165 94.8 76.2 114.2

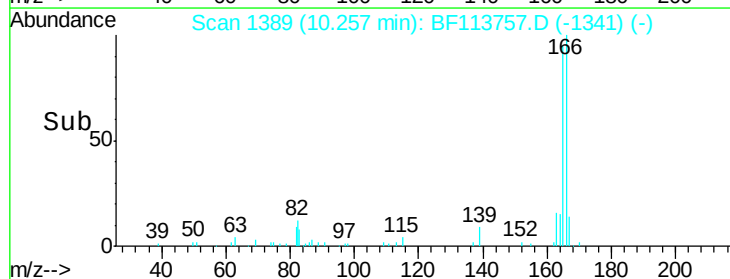
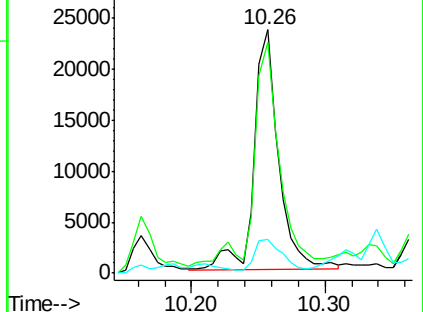
167 13.8 10.7 16.1

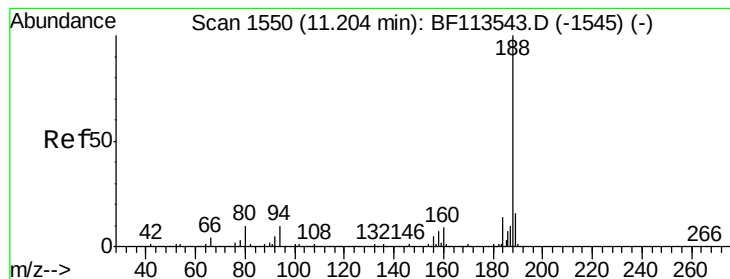


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampled :

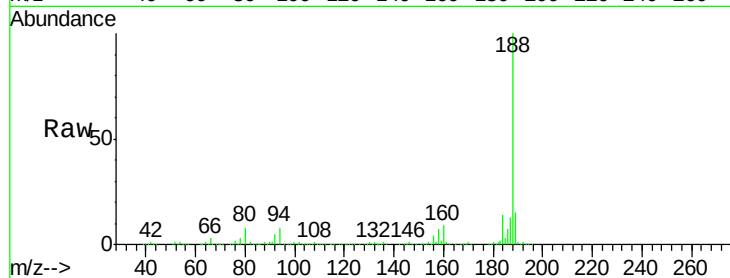
Tot Ion:188 Resp: 358946

Ion Ratio Lower Upper

188 100

94 8.4 7.0 10.6

80 8.3 7.7 11.5

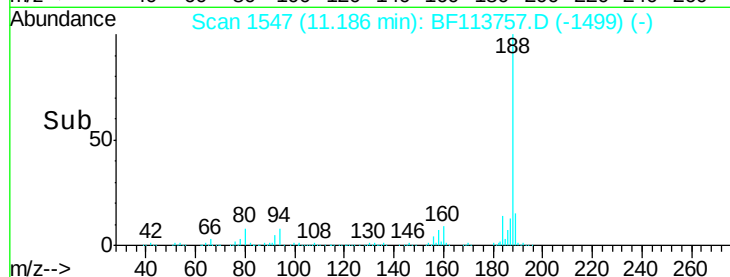


Abundance Ion 188.00 (187.70 to 188.70): E

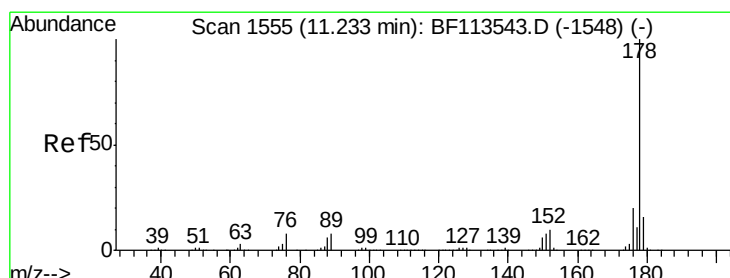
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time--> 11.10 11.20 11.30



Time--> 11.10 11.20 11.30



#71

Phenanthrene

Concen: 20.382 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

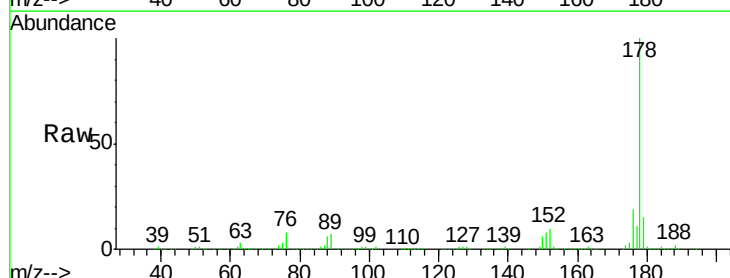
Tgt Ion:178 Resp: 363532

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.2

179 15.3 12.7 19.1

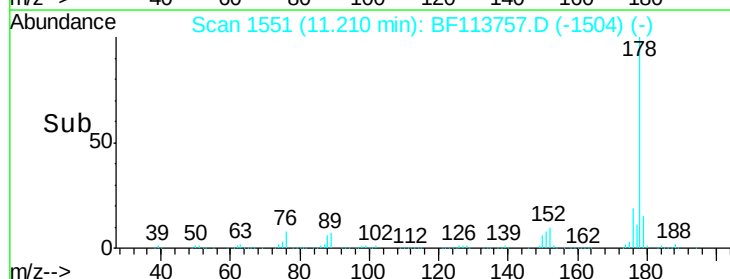


Abundance Ion 178.00 (177.70 to 178.70): E

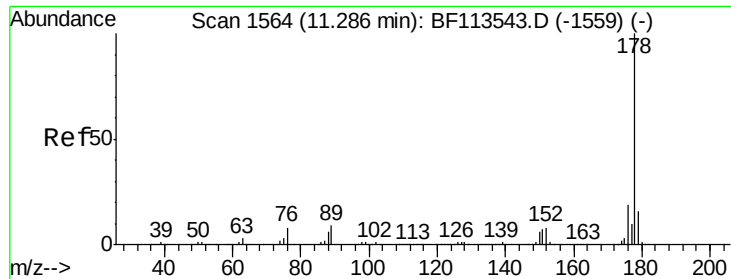
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time--> 11.15 11.20 11.25



Time--> 11.15 11.20 11.25



#72

Anthracene

Concen: 7.116 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampled :

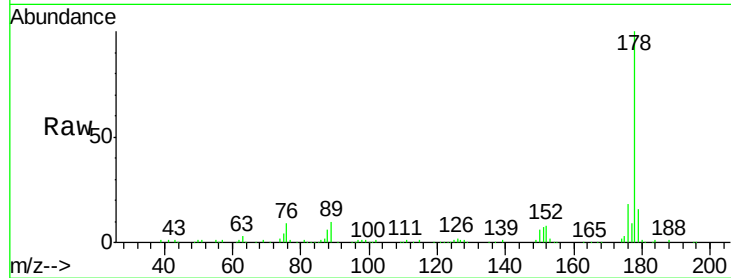
Tot Ion:178 Resp: 129126

Ion Ratio Lower Upper

178 100

176 17.8 15.4 23.2

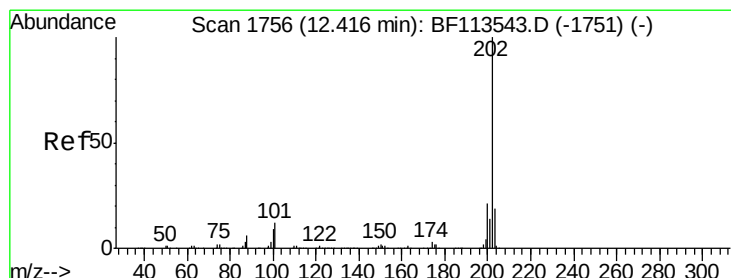
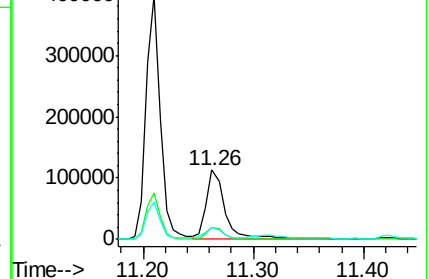
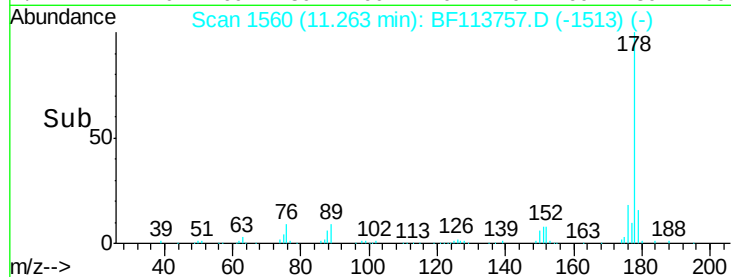
179 16.4 12.8 19.2



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



#75

Fluoranthene

Concen: 44.436 ng

RT: 12.40 min Scan# 1753

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

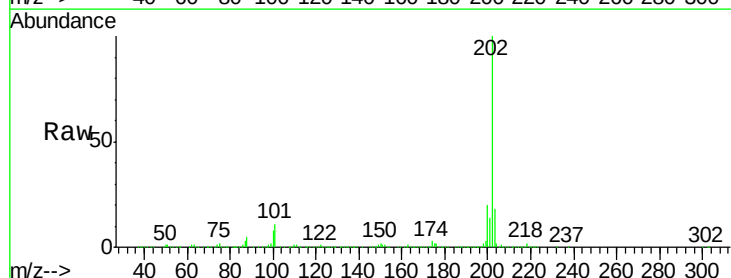
Tgt Ion:202 Resp: 849292

Ion Ratio Lower Upper

202 100

101 10.9 0.0 31.4

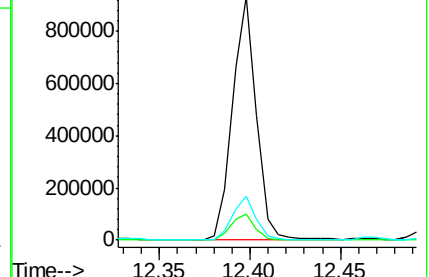
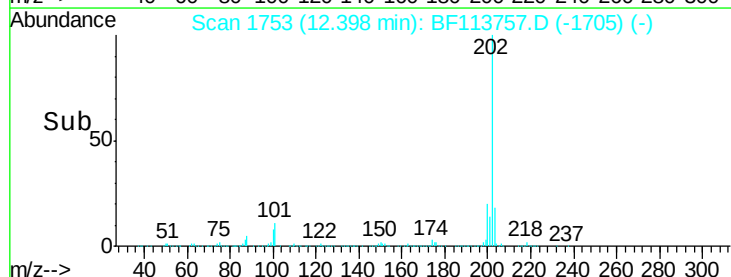
203 18.3 0.0 38.0

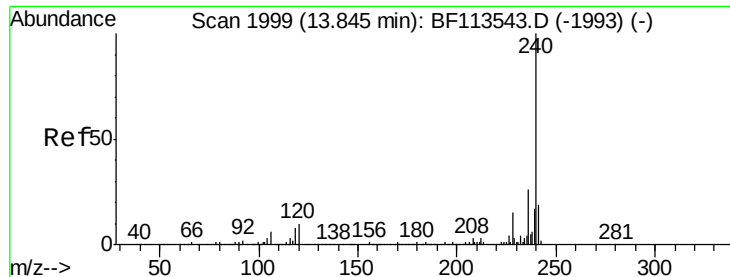


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampled :

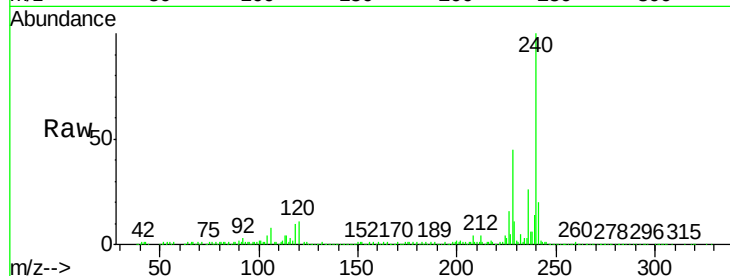
Tot Ion:240 Resp: 362735

Ion Ratio Lower Upper

240 100

120 10.8 8.8 13.2

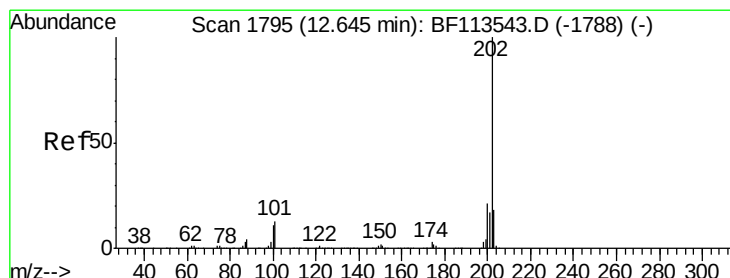
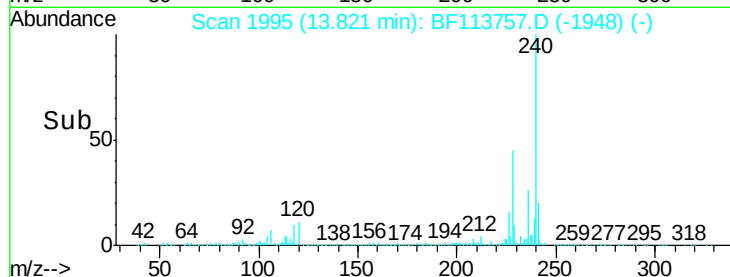
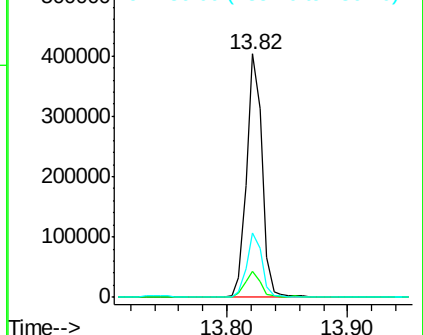
236 26.2 20.9 31.3



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



#78

Pyrene

Concen: 30.498 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

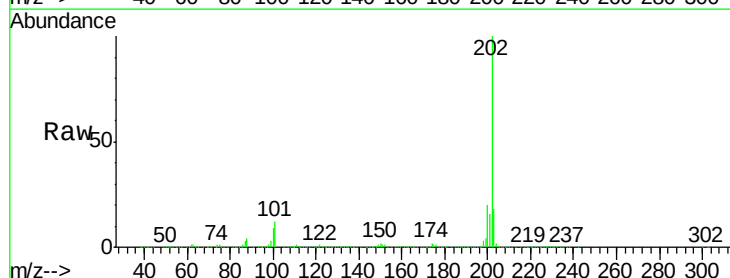
Tgt Ion:202 Resp: 841753

Ion Ratio Lower Upper

202 100

200 20.3 16.8 25.2

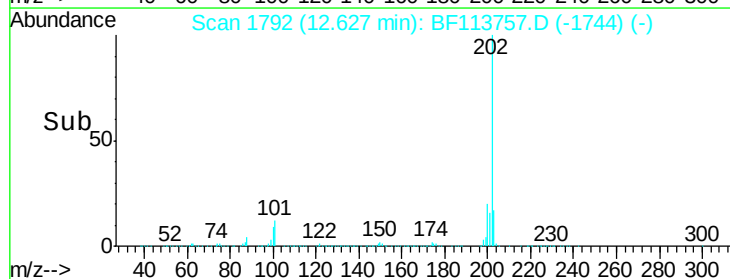
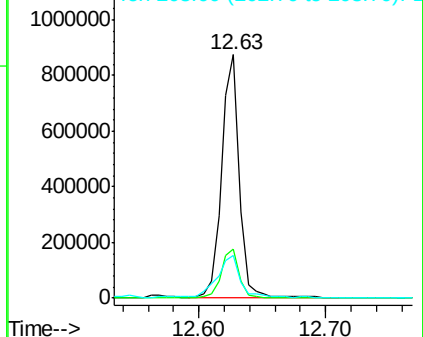
203 17.7 14.4 21.6

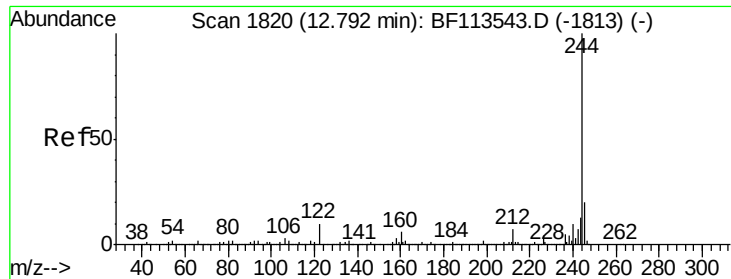


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 11.517 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.03 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampleId :

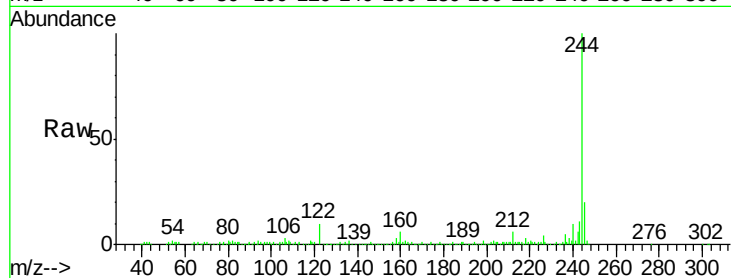
Tot Ion:244 Resp: 205194

Ion Ratio Lower Upper

244 100

212 6.1 5.5 8.3

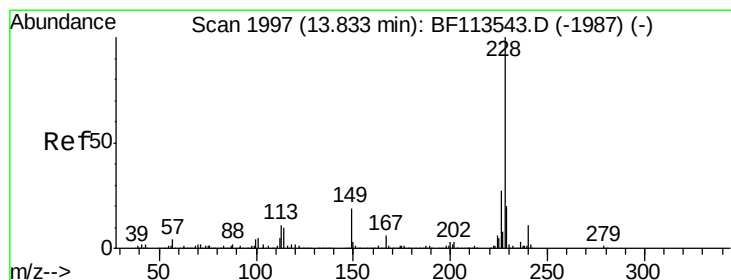
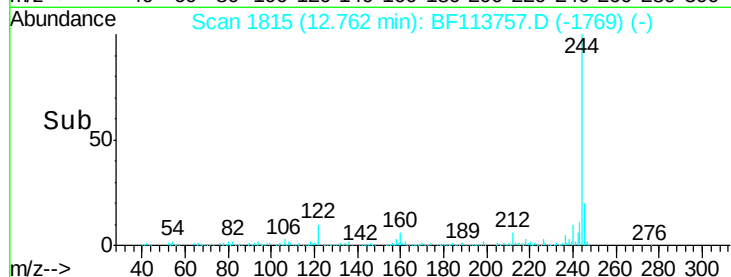
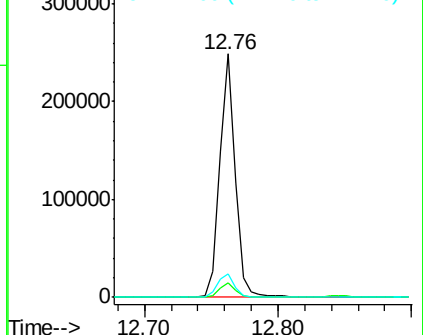
122 9.8 8.6 13.0



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



#81

Benzo(a)anthracene

Concen: 24.229 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

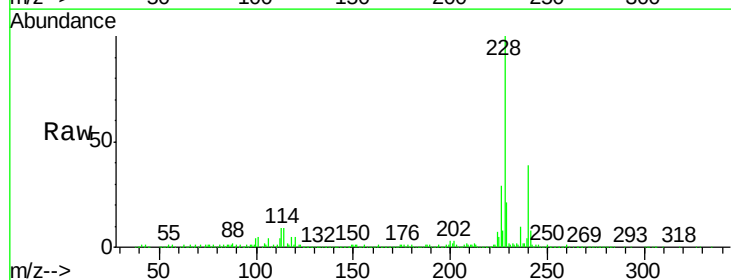
Tgt Ion:228 Resp: 506973

Ion Ratio Lower Upper

228 100

226 29.1 21.8 32.8

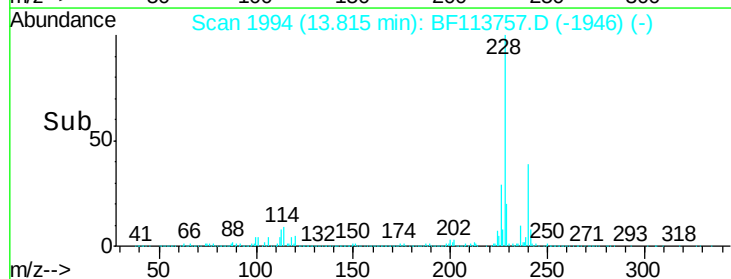
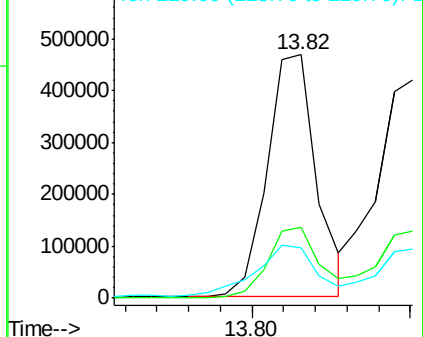
229 20.9 16.2 24.4

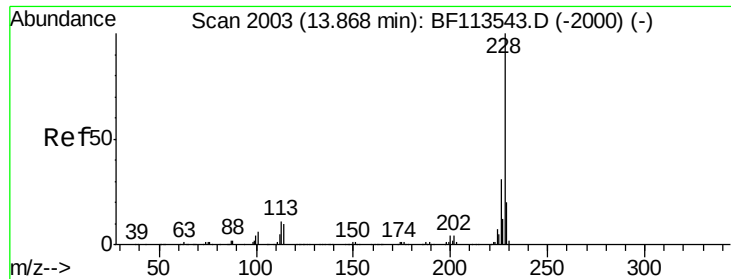


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

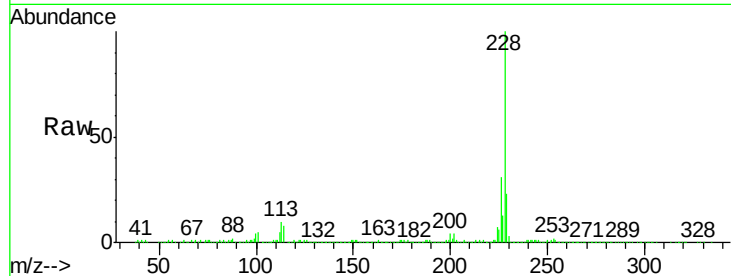




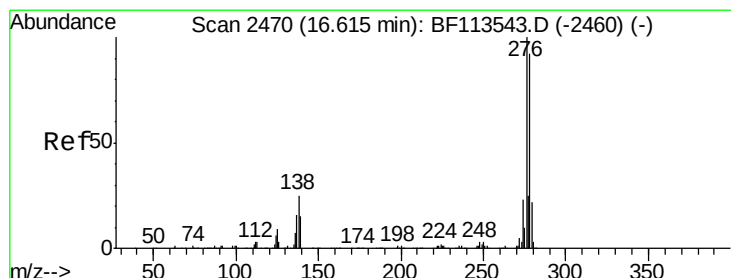
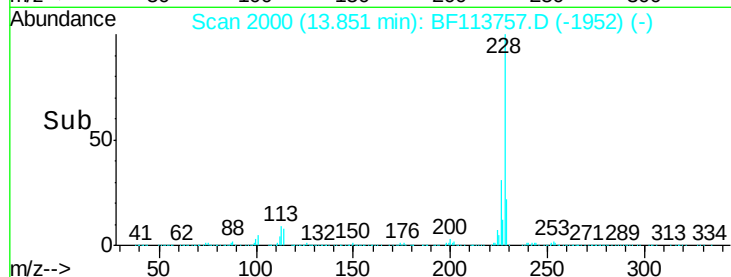
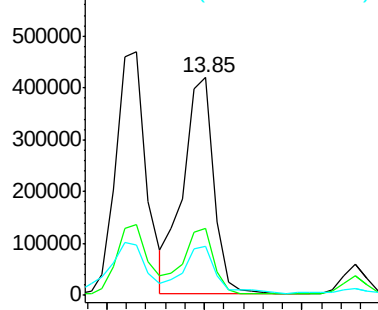
#83
Chrysene
Concen: 21.521 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 456489
Ion Ratio Lower Upper
228 100
226 30.8 24.3 36.5
229 22.6 16.3 24.5

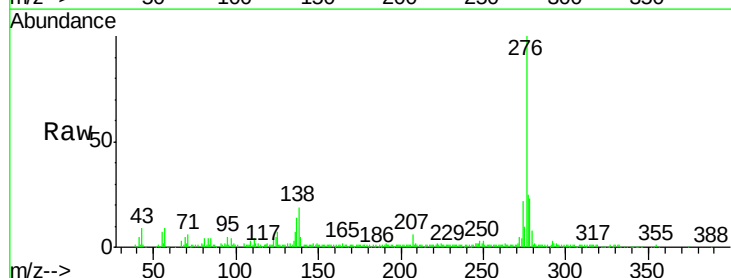


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

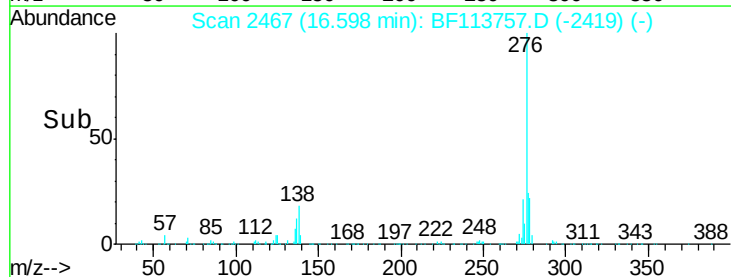
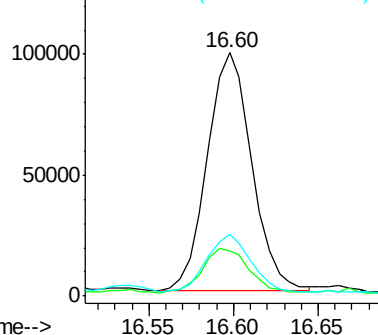


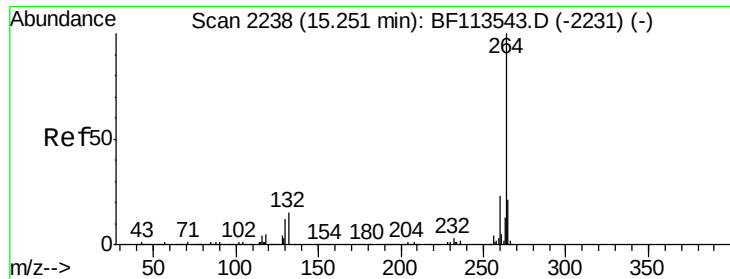
#86
Indeno(1,2,3-cd)pyrene
Concen: 9.223 ng
RT: 16.60 min Scan# 2467
Delta R.T. -0.02 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Tgt Ion:276 Resp: 180618
Ion Ratio Lower Upper
276 100
138 20.0 18.1 27.1
277 23.3 20.2 30.4



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.23 min Scan# 2235

Delta R.T. -0.02 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

Instrument :

BNA_F

ClientSampleId :

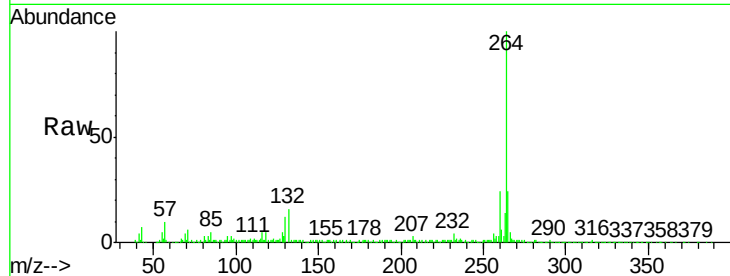
Tot Ion:264 Resp: 295508

Ion Ratio Lower Upper

264 100

260 23.9 19.1 28.7

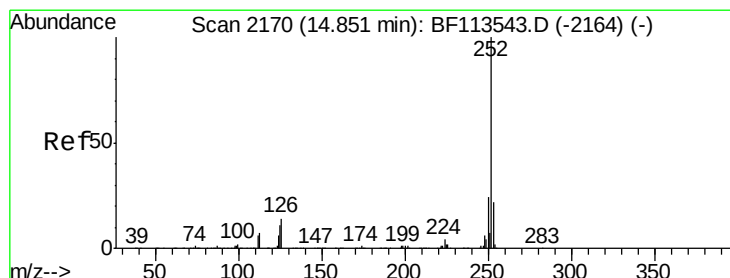
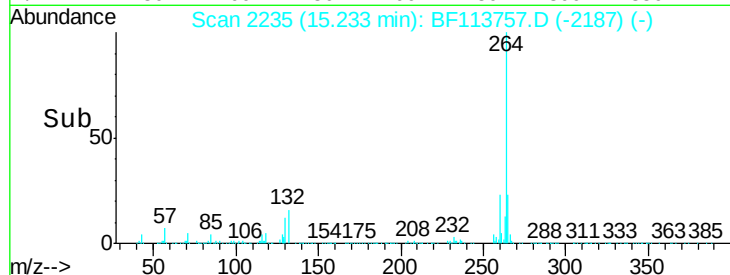
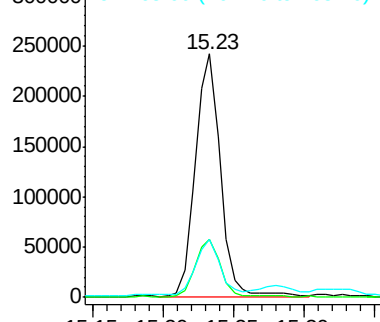
265 23.7 17.1 25.7



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



#88

Benzo(b)fluoranthene

Concen: 39.306 ng

RT: 14.84 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BF113757.D

Acq: 13 Apr 2019 00:21

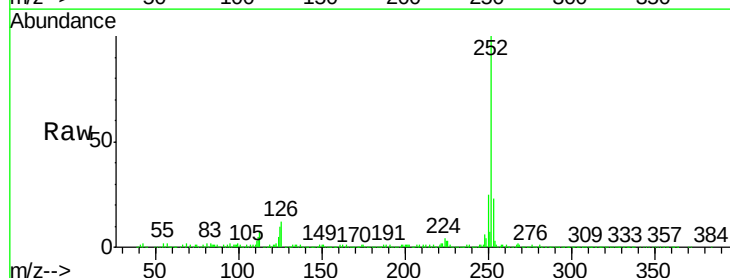
Tgt Ion:252 Resp: 711002

Ion Ratio Lower Upper

252 100

253 23.5 18.0 27.0

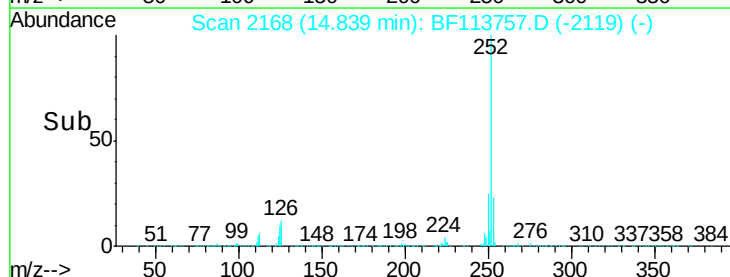
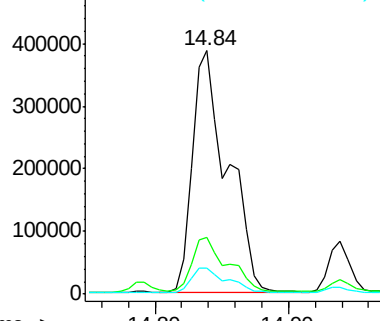
125 10.5 7.6 11.4

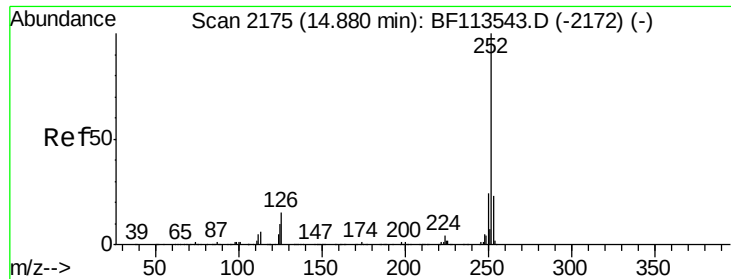


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

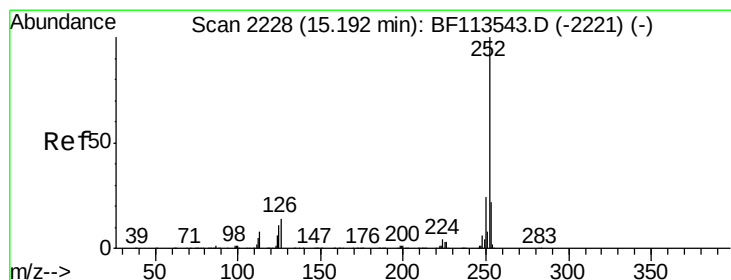
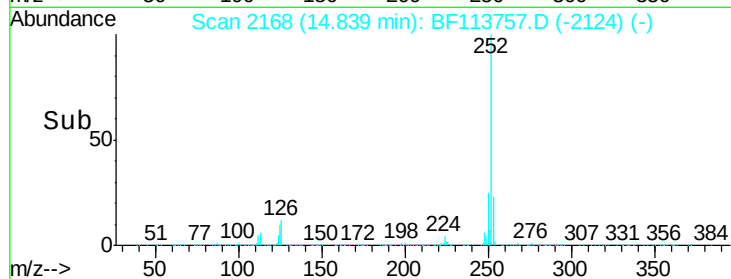
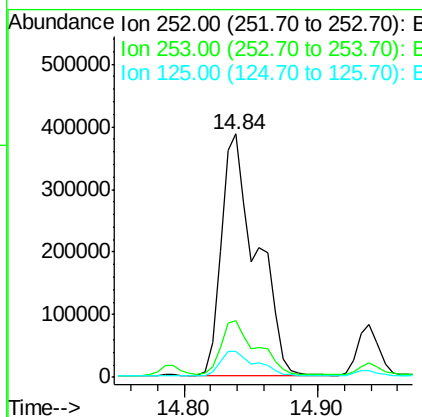
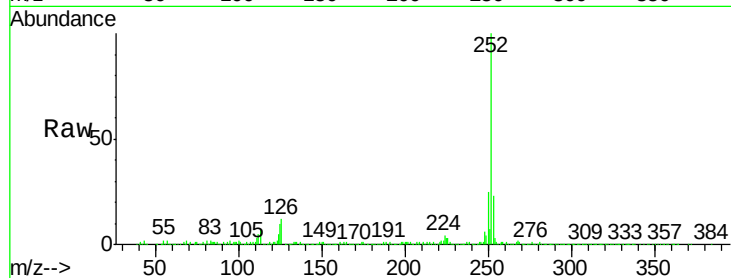




#89
Benzo(k)fluoranthene
Concen: 43.796 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.04 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

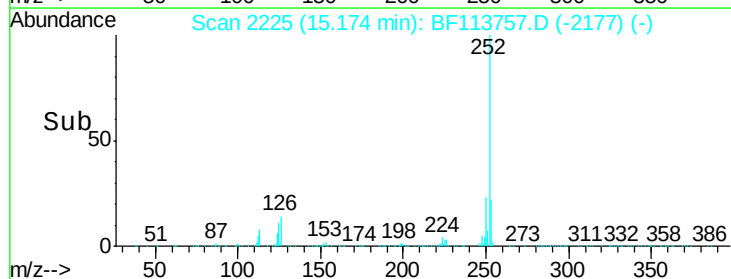
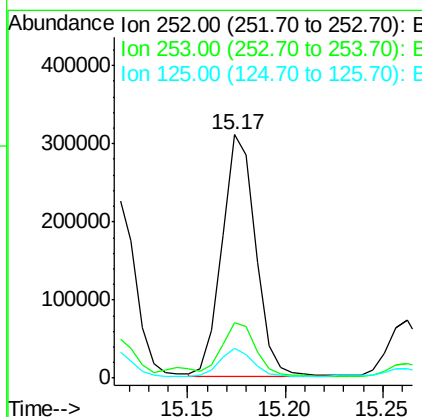
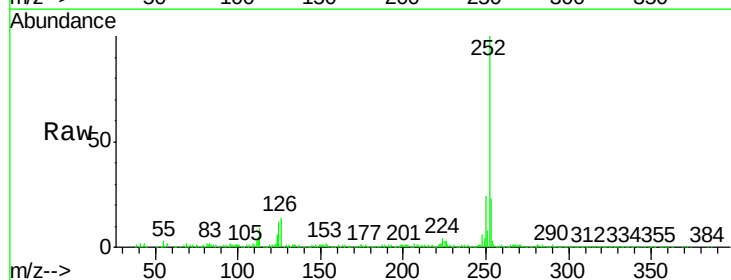
Instrument :
BNA_F
ClientSampled :

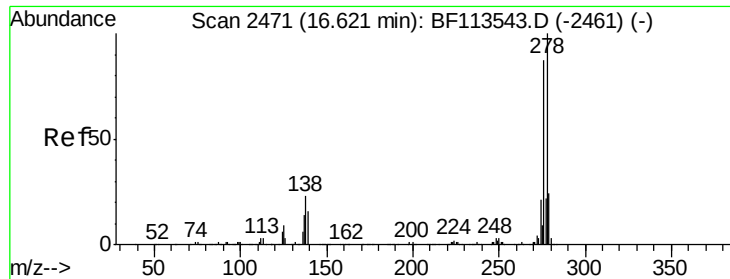
Tot Ion:252 Resp: 711002
Ion Ratio Lower Upper
252 100
253 23.5 17.7 26.5
125 10.5 7.3 10.9



#90
Benzo(a)pyrene
Concen: 23.072 ng
RT: 15.17 min Scan# 2225
Delta R.T. -0.02 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Tgt Ion:252 Resp: 370844
Ion Ratio Lower Upper
252 100
253 22.8 17.9 26.9
125 12.2 8.8 13.2

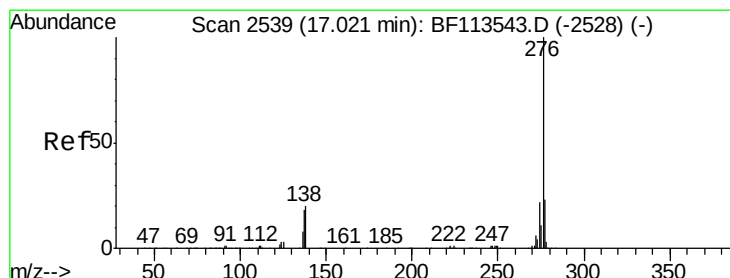
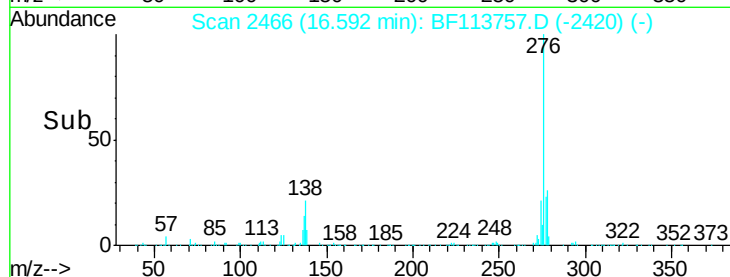
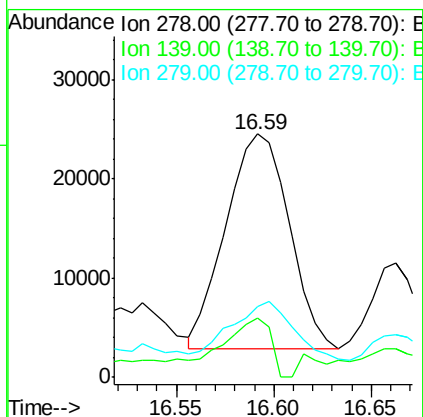
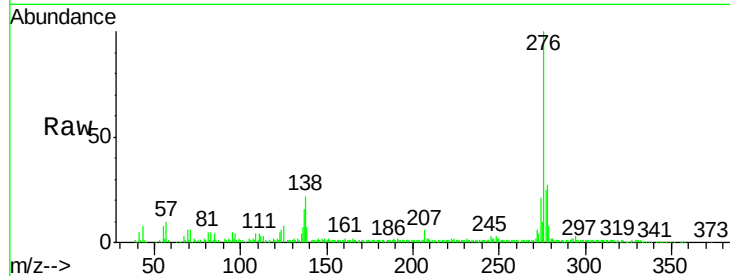




#91
Dibenzo(a,h)anthracene
Concen: 3.249 ng
RT: 16.59 min Scan# 2466
Delta R.T. -0.03 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 48834
Ion Ratio Lower Upper
278 100
139 24.1 12.0 18.0#
279 28.9 19.0 28.6#



#92
Benzo(g,h,i)perylene
Concen: 11.508 ng
RT: 17.01 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BF113757.D
Acq: 13 Apr 2019 00:21

Tgt Ion:276 Resp: 176554
Ion Ratio Lower Upper
276 100
277 25.3 18.8 28.2
138 19.9 15.6 23.4

