

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031819\
 Data File : BF113107.D
 Acq On : 18 Mar 2019 22:56
 Operator : JU/SJ
 Sample : K1901-09 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-16(0.5-1.5)

Quant Time: Mar 19 04:52:53 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

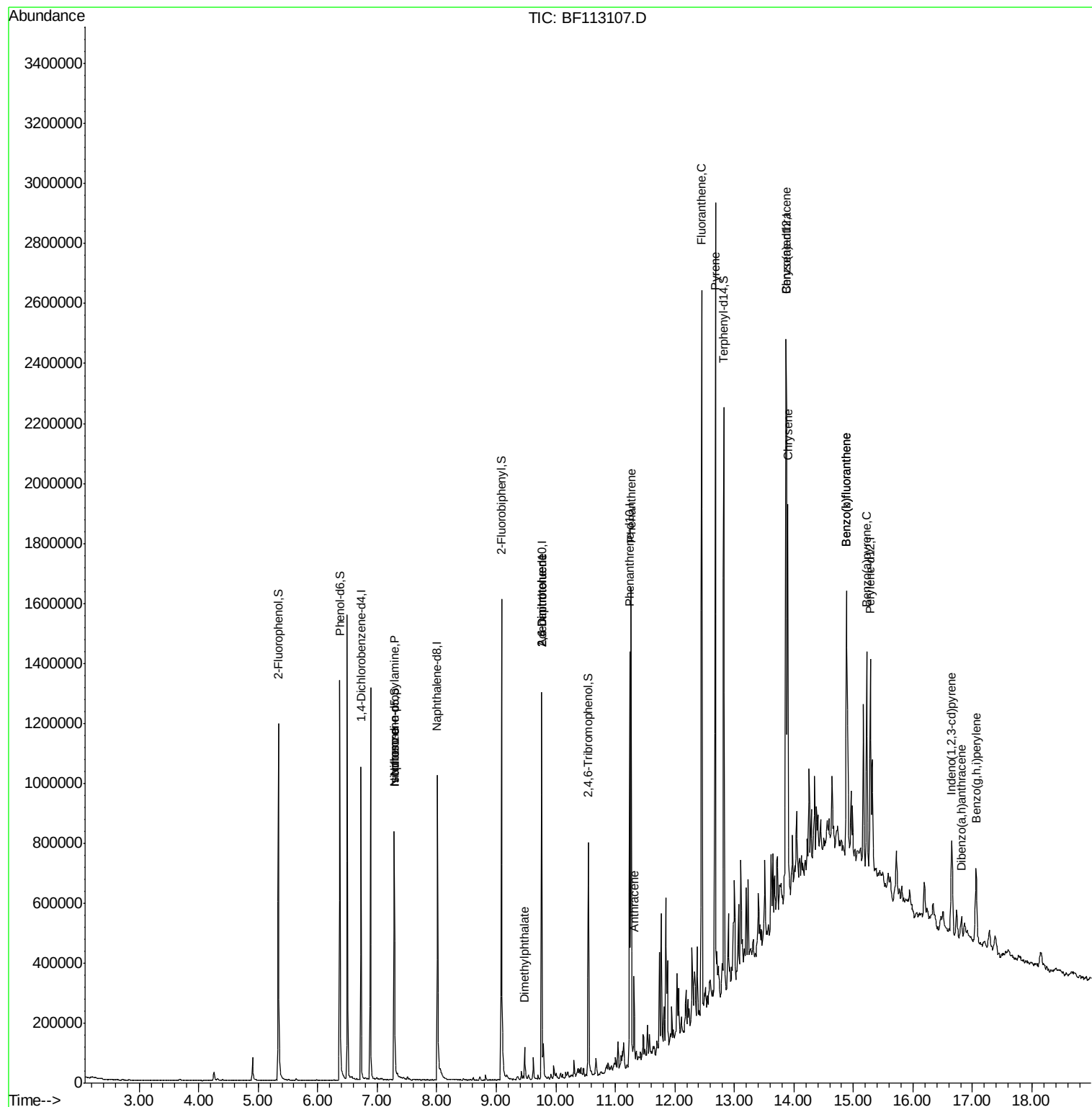
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	148667	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	562315	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	261316	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	536597	20.00	ng	0.00
76) Chrysene-d12	13.87	240	472919	20.00	ng	0.00
87) Perylene-d12	15.29	264	354323	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	350021	36.62	ng	0.00
7) Phenol-d6	6.37	99	489518	40.77	ng	0.00
23) Nitrobenzene-d5	7.29	82	282239	30.03	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	112072	40.40	ng	0.00
45) 2-Fluorobiphenyl	9.09	172	597727	31.88	ng	0.00
79) Terphenyl-d14	12.82	244	679104	27.84	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.29	70	36335	4.779	ng	# 78
25) Isophorone	7.29	82	282236	13.941	ng	# 66
50) Dimethylphthalate	9.48	163	52557	2.728	ng	# 99
51) 2,6-Dinitrotoluene	9.76	165	34891	8.696	ng	# 18
57) 2,4-Dinitrotoluene	9.76	165	34892	6.996	ng	# 17
71) Phenanthrene	11.26	178	635598	23.807	ng	98
72) Anthracene	11.32	178	108499	3.882	ng	97
75) Fluoranthene	12.45	202	979753	34.253	ng	97
78) Pyrene	12.68	202	1100469	27.603	ng	100
81) Benzo(a)anthracene	13.86	228	570988	17.421	ng	98
83) Chrysene	13.90	228	503608	15.686	ng	98
86) Indeno(1,2,3-cd)pyrene	16.65	276	217702	7.954	ng	# 88
88) Benzo(b)fluoranthene	14.89	252	641669	27.998	ng	99
89) Benzo(k)fluoranthene	14.89	252	641669	30.909	ng	99
90) Benzo(a)pyrene	15.23	252	363946	17.953	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	48768	2.819	ng	93
92) Benzo(g,h,i)perylene	17.06	276	213208	12.275	ng	94

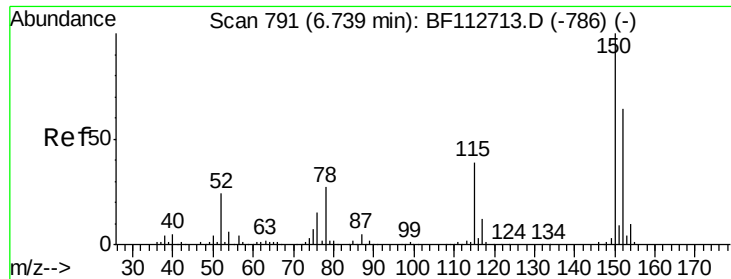
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.73 min Scan# 789

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

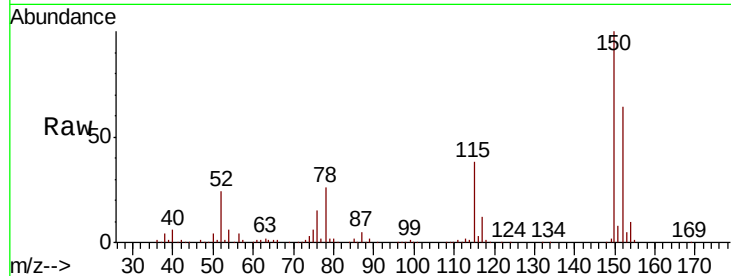
Tgt Ion:152 Resp: 148667

Ion Ratio Lower Upper

152 100

150 156.5 124.2 186.2

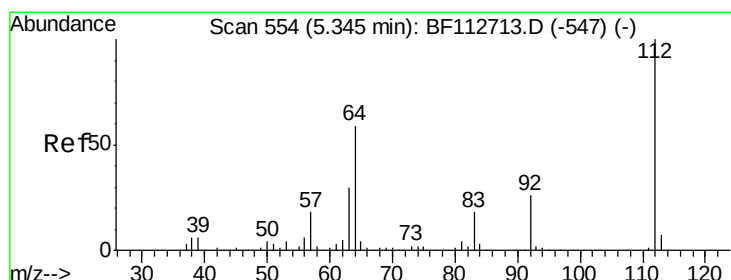
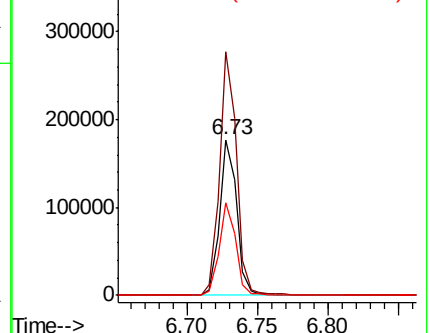
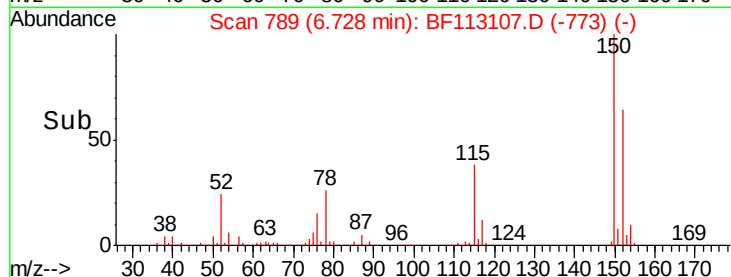
115 59.5 48.2 72.4



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: 36.624 ng

RT: 5.34 min Scan# 553

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

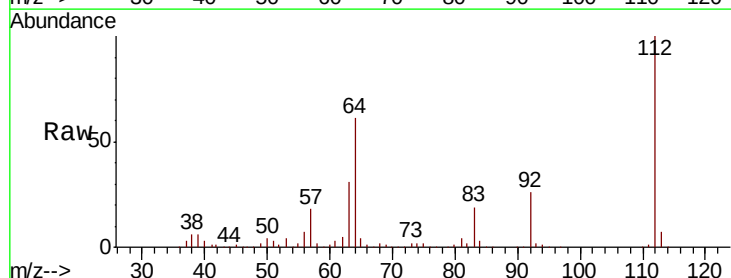
Tgt Ion:112 Resp: 350021

Ion Ratio Lower Upper

112 100

64 61.2 47.6 71.4

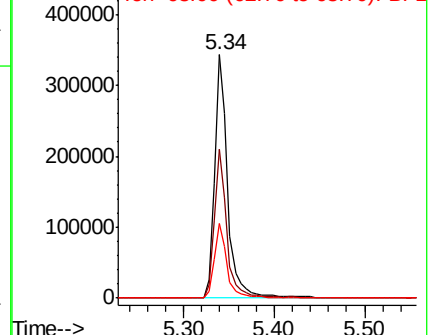
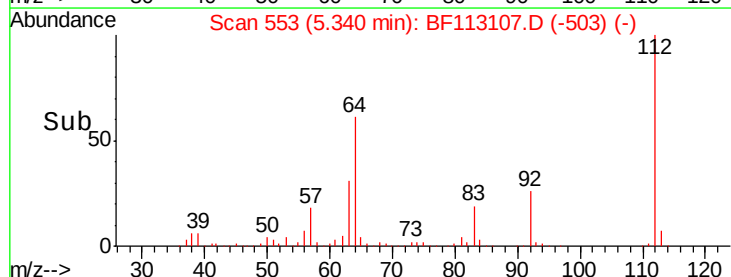
63 30.6 24.4 36.6

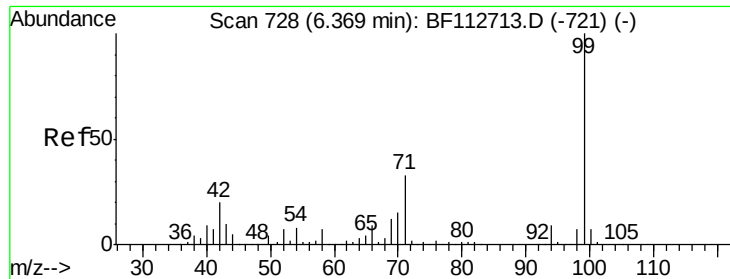


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 40.775 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

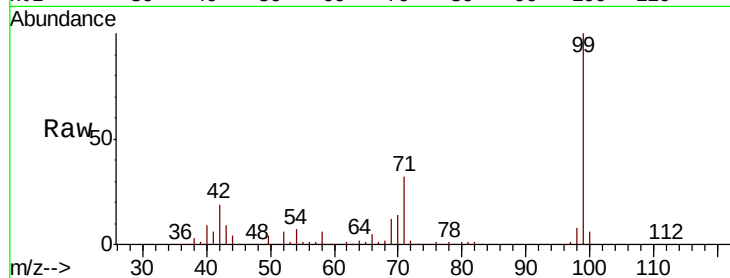
Tgt Ion: 99 Resp: 489518

Ion Ratio Lower Upper

99 100

42 19.0 16.3 24.5

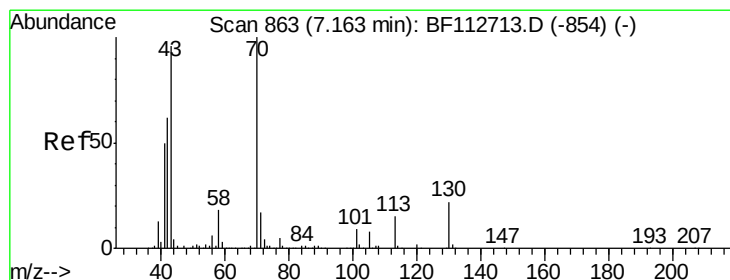
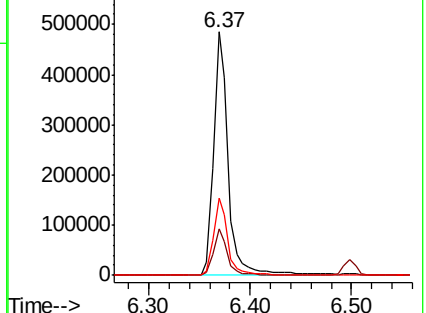
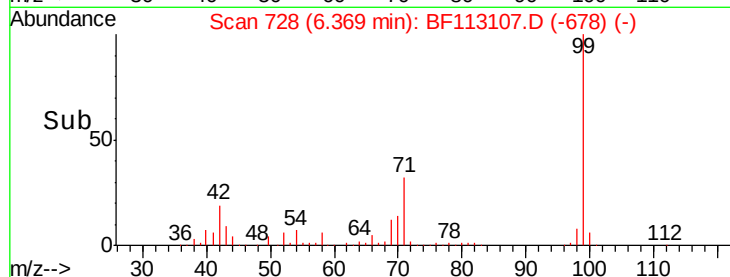
71 32.0 26.2 39.4



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: 4.779 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.13 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Tgt Ion: 70 Resp: 36335

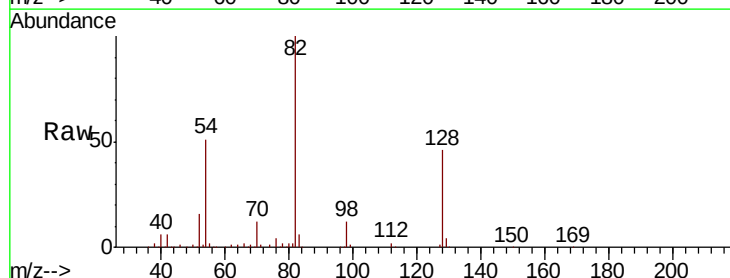
Ion Ratio Lower Upper

70 100

42 50.3 49.9 74.9

101 0.0 7.4 11.2#

130 2.9 17.4 26.2#

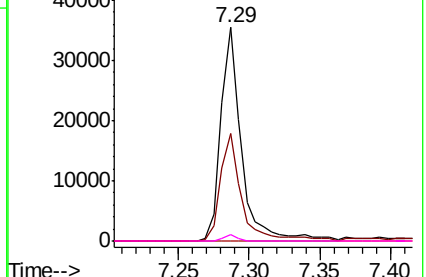
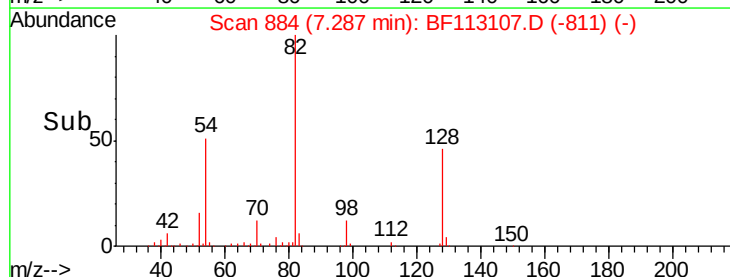


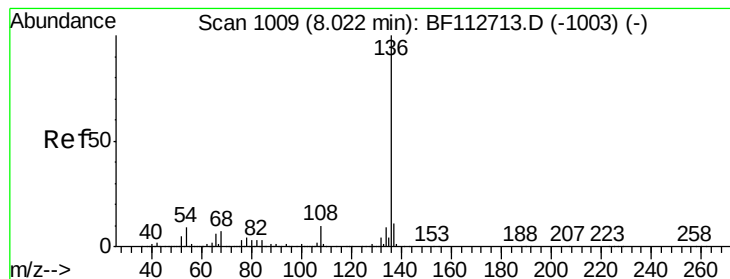
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

Tgt Ion: 136 Resp: 562315

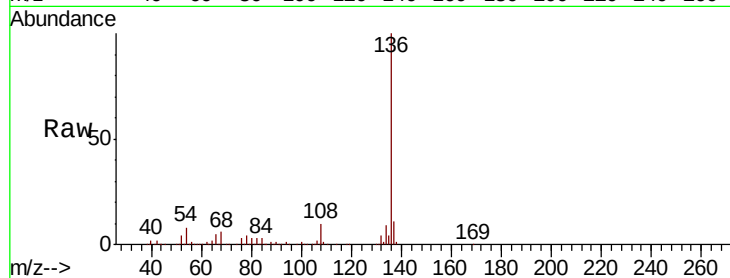
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.5 7.3 10.9

68 6.1 5.4 8.2

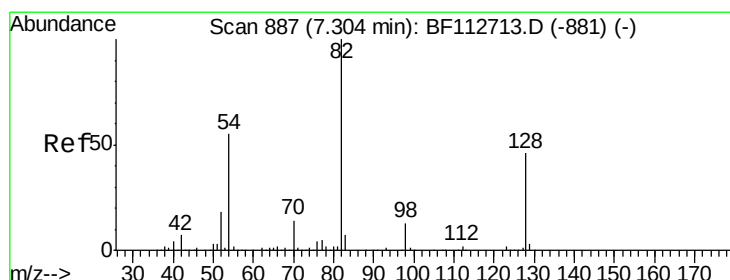
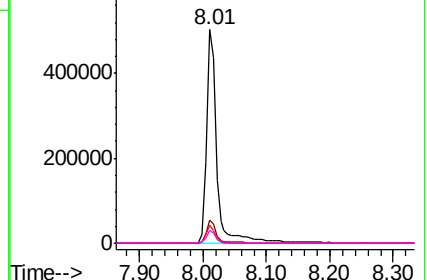
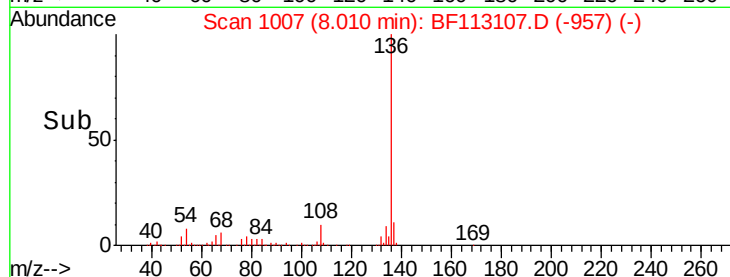


Abundance Ion 136.00 (135.70 to 136.70): E

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: 30.034 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

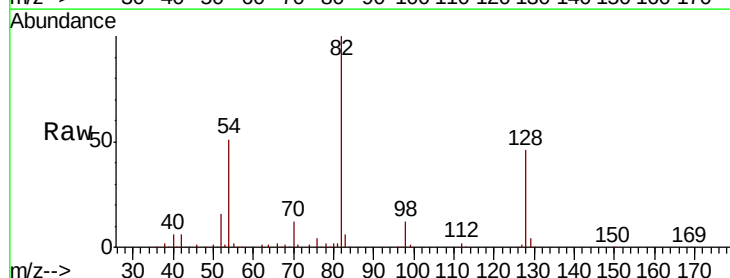
Tgt Ion: 82 Resp: 282239

Ion Ratio Lower Upper

82 100

128 45.7 36.3 54.5

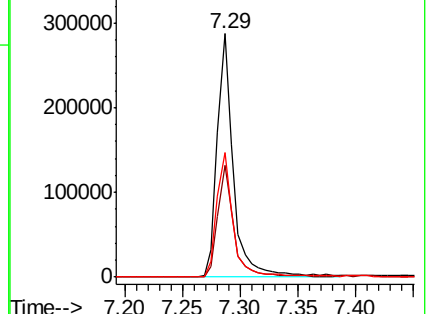
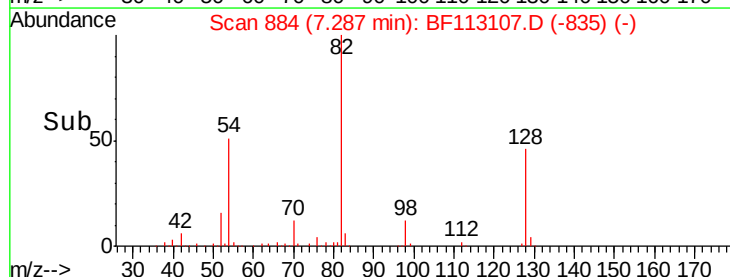
54 51.4 43.7 65.5

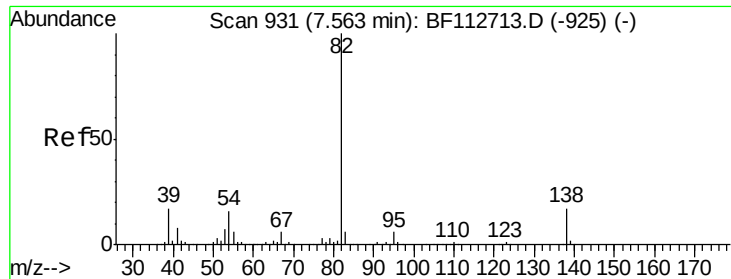


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 13.941 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.27 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

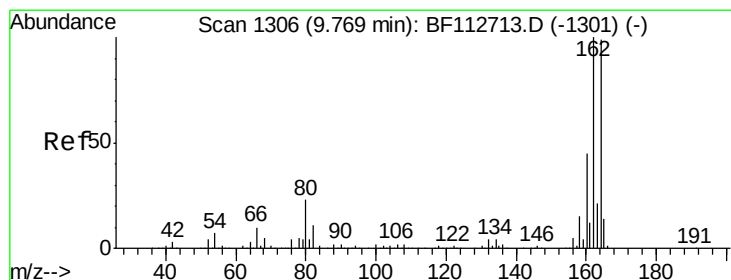
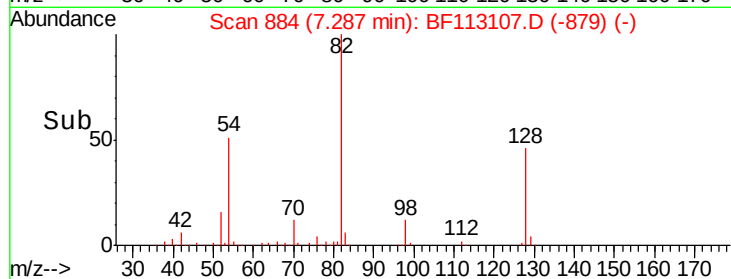
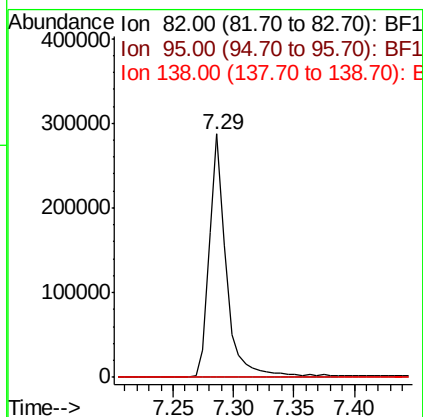
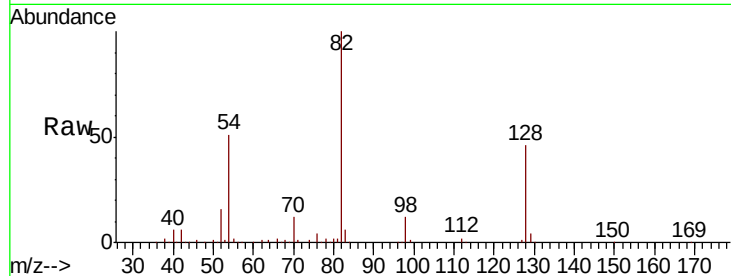
Tgt Ion: 82 Resp: 282236

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 13.8 20.8#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

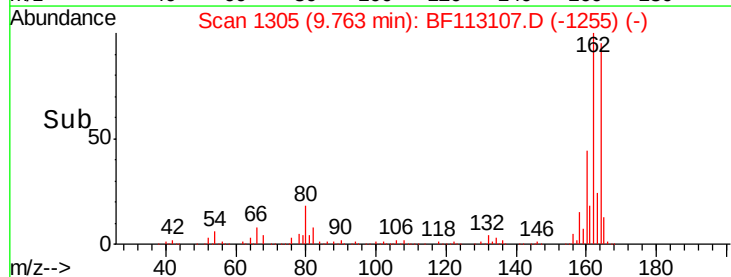
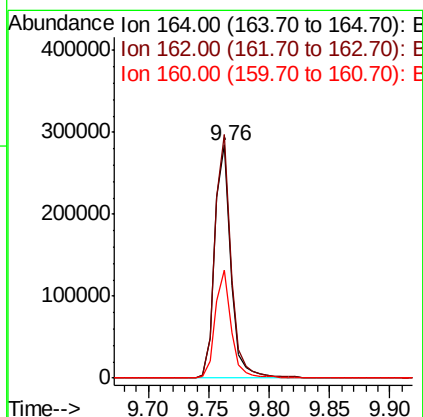
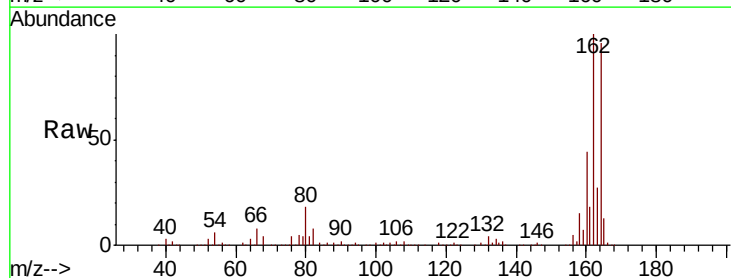
Tgt Ion: 164 Resp: 261316

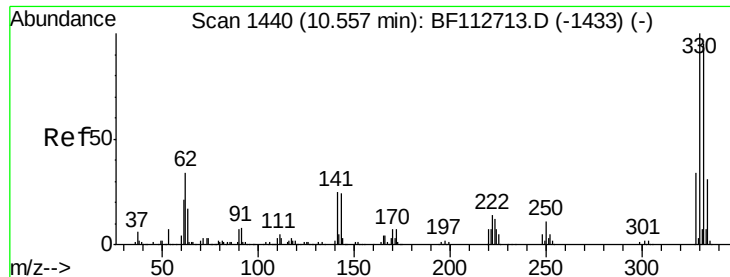
Ion Ratio Lower Upper

164 100

162 104.4 80.6 120.8

160 46.4 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 40.398 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

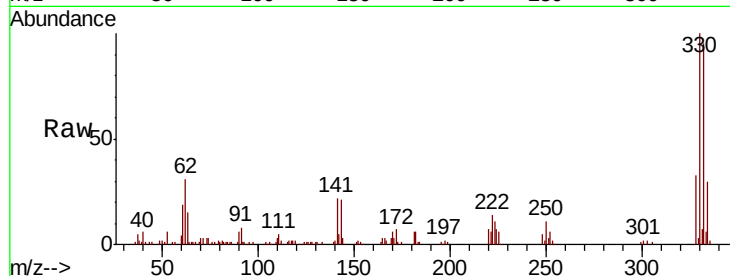
Tgt Ion:330 Resp: 112072

Ion Ratio Lower Upper

330 100

332 97.3 76.2 114.4

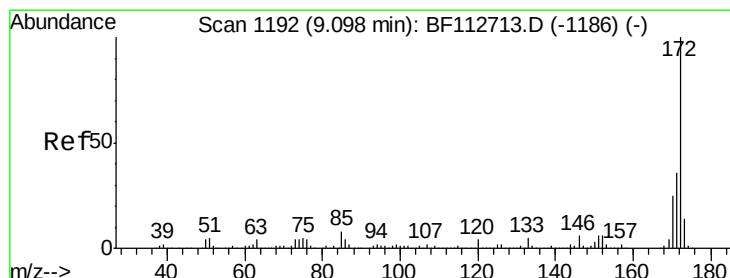
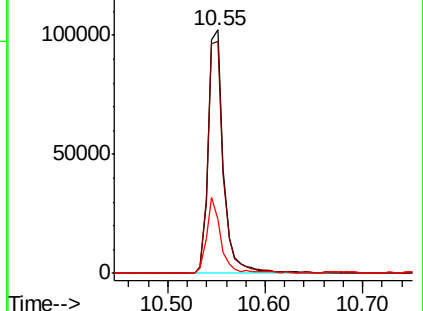
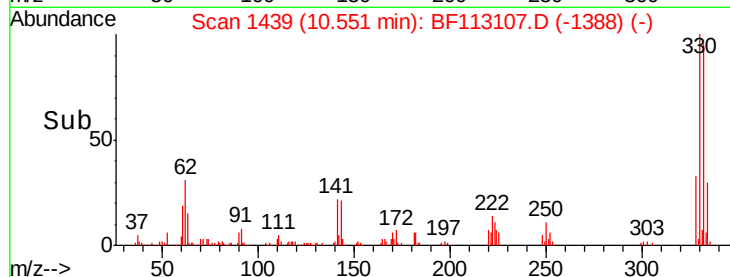
141 28.9 27.0 40.6



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: 31.883 ng

RT: 9.09 min Scan# 1190

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

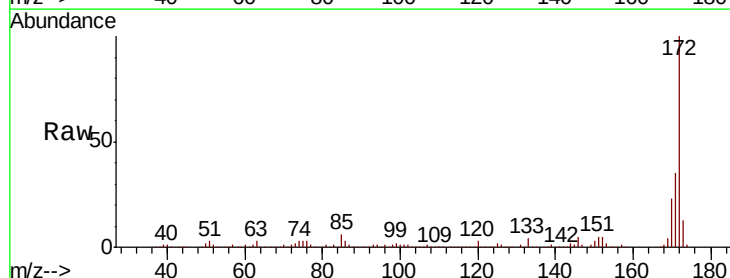
Tgt Ion:172 Resp: 597727

Ion Ratio Lower Upper

172 100

171 34.5 29.0 43.4

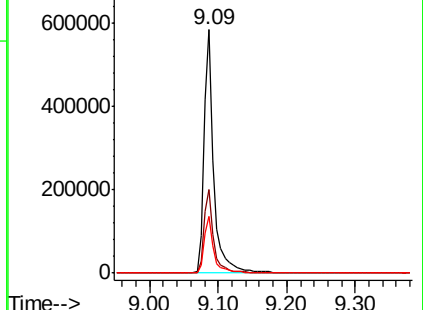
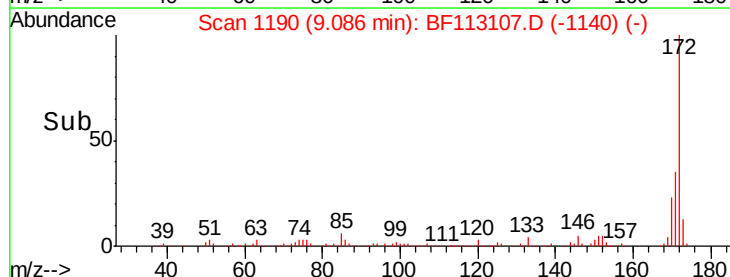
170 23.3 20.0 30.0

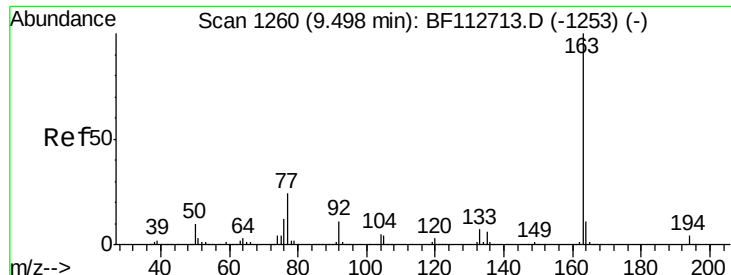


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

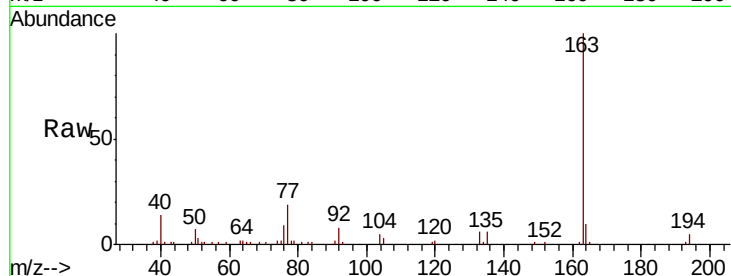




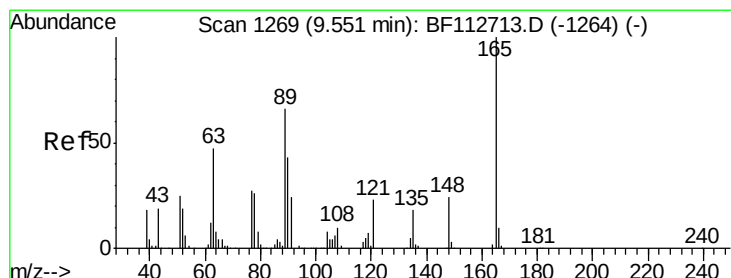
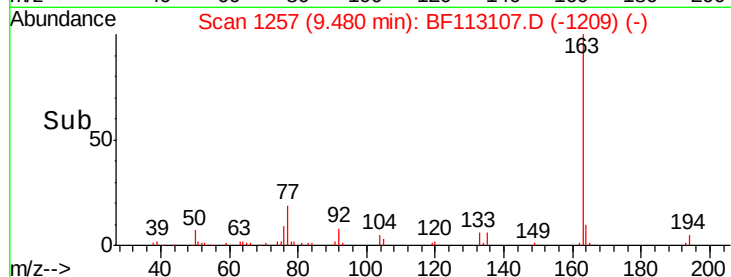
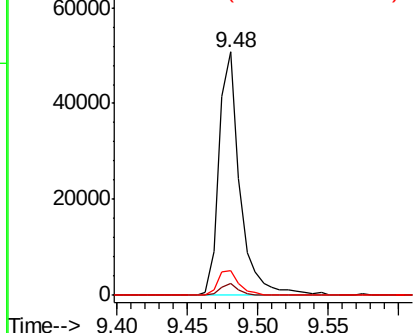
#50
Dimethylphthalate
Concen: 2.728 ng
RT: 9.48 min Scan# 1257
Delta R.T. -0.02 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

Instrument :
BNA_F
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SB-16(0.5-1.5)

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.0	3.0	4.4#
164	10.4	8.4	12.6

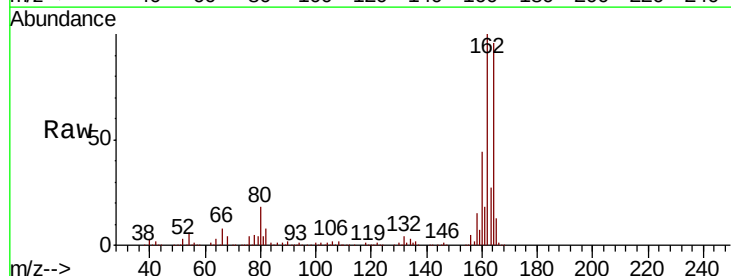


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

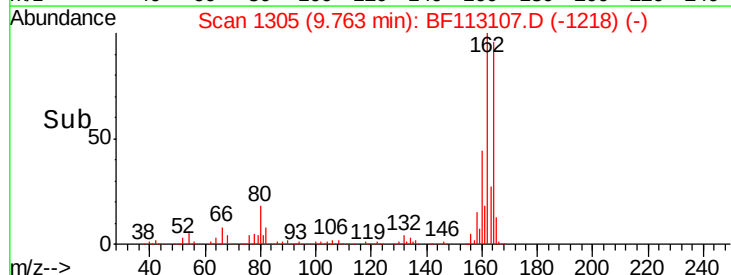
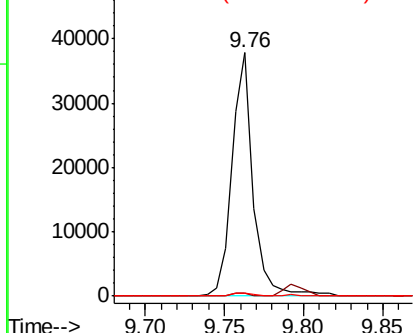


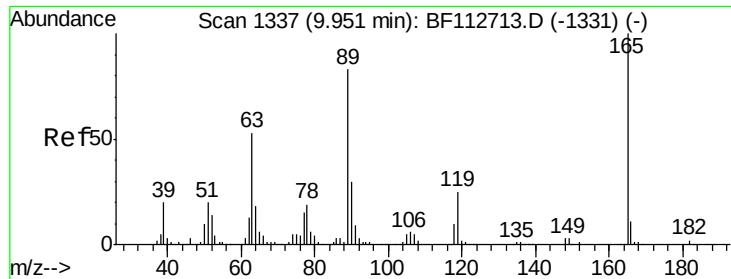
#51
2,6-Dinitrotoluene
Concen: 8.696 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.21 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	54.1	81.1#
89	1.2	52.8	79.2#



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

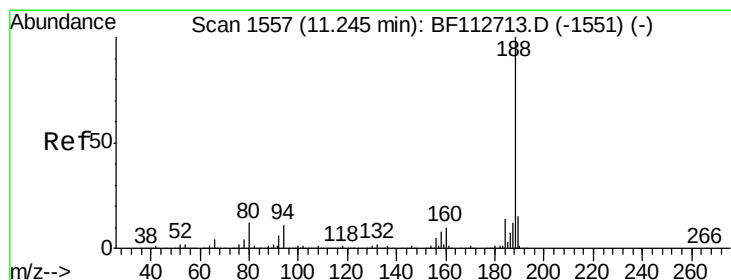
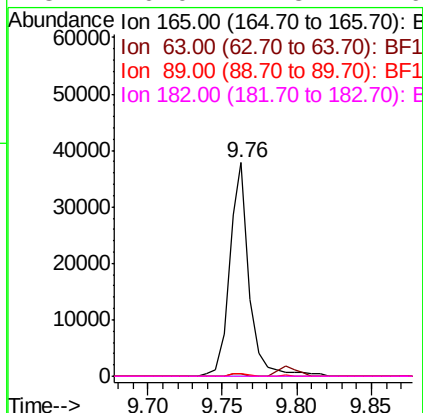
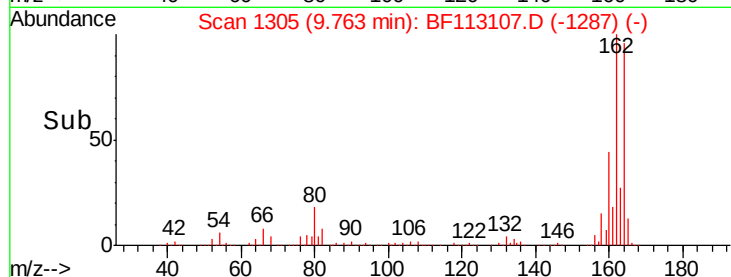
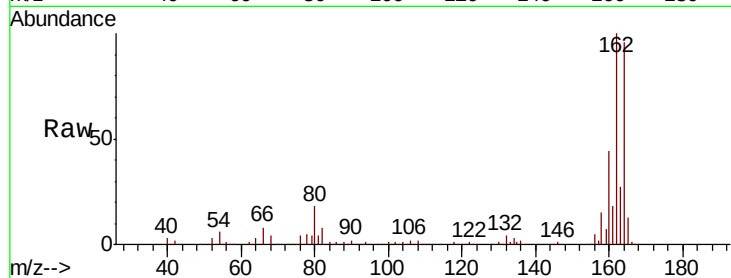




#57
2,4-Dinitrotoluene
Concen: 6.996 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.19 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

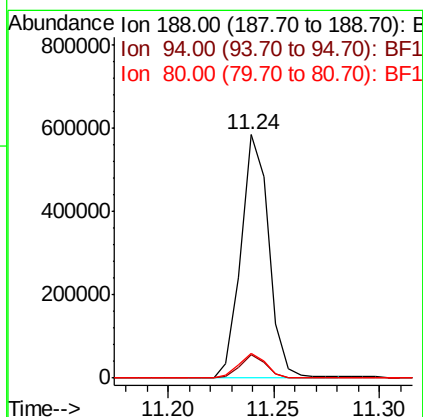
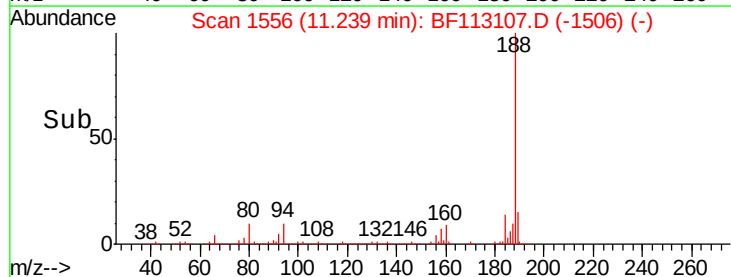
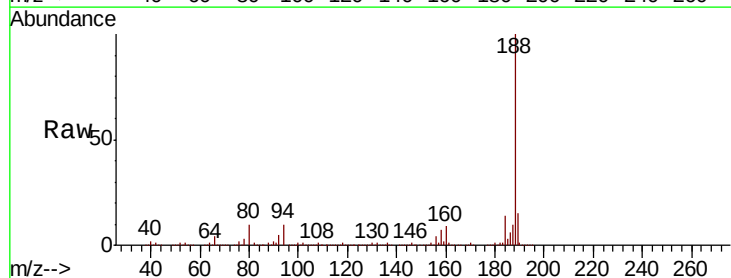
Instrument :
BNA_F
ClientSampleId :
SB-16(0.5-1.5)

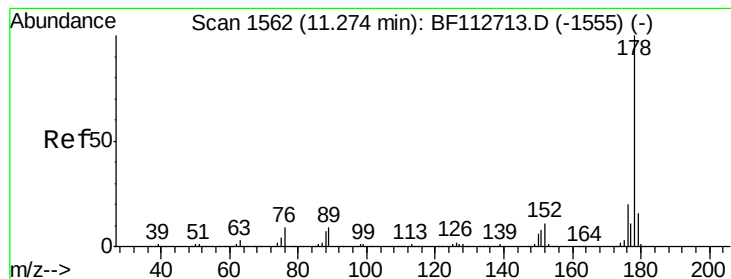
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	42.2	63.2#
89	1.2	66.2	99.4#
182	0.0	1.8	2.6#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.5	9.0	13.4
80	10.3	9.2	13.8





#71

Phenanthrene

Concen: 23.807 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

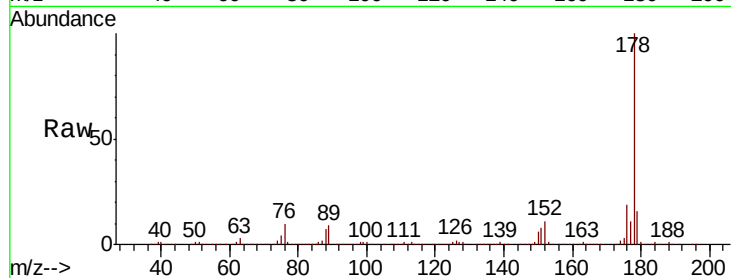
Tgt Ion:178 Resp: 635598

Ion Ratio Lower Upper

178 100

176 19.2 16.3 24.5

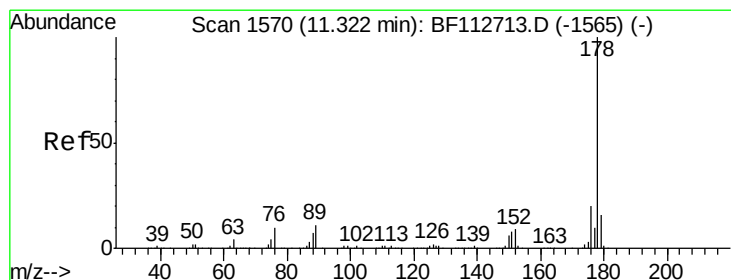
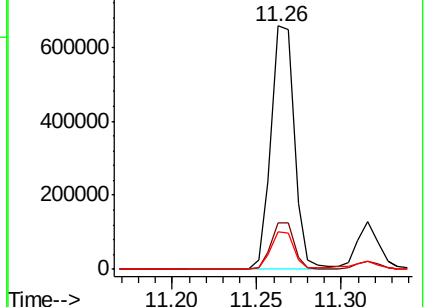
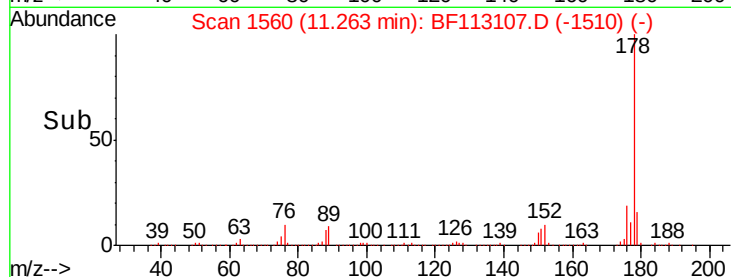
179 15.6 12.7 19.1



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



#72

Anthracene

Concen: 3.882 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

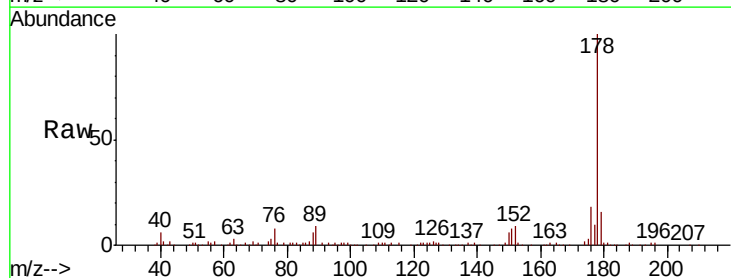
Tgt Ion:178 Resp: 108499

Ion Ratio Lower Upper

178 100

176 17.6 15.8 23.6

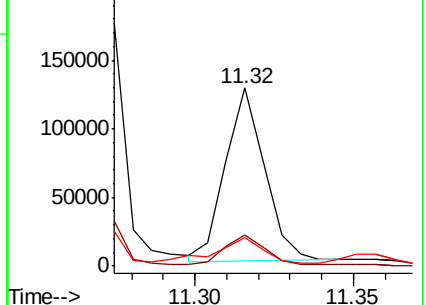
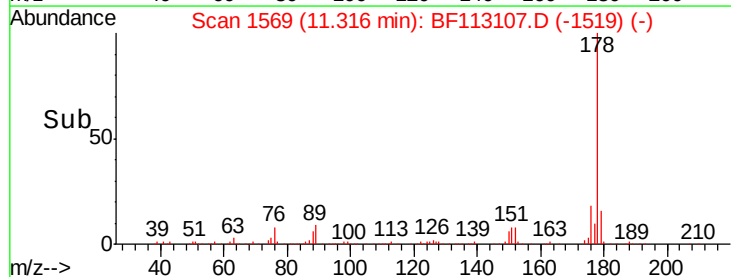
179 15.8 13.0 19.6

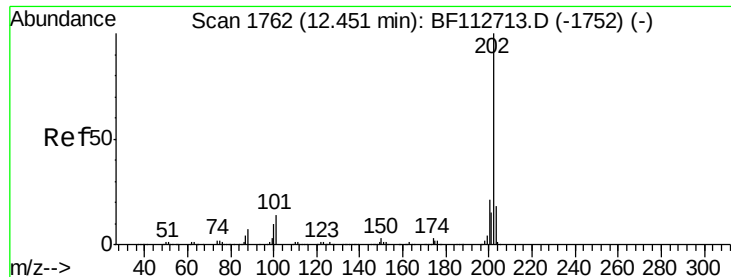


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 34.253 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampled :

SB-16(0.5-1.5)

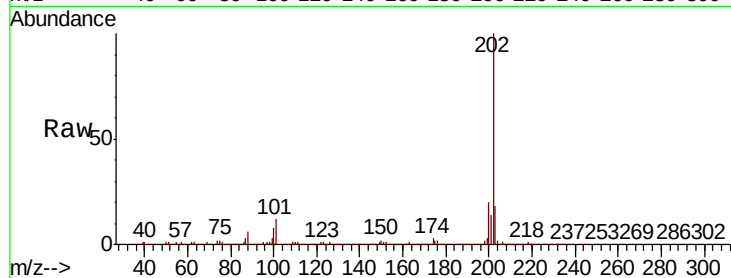
Tgt Ion:202 Resp: 979753

Ion Ratio Lower Upper

202 100

101 11.6 0.0 33.8

203 18.2 0.0 38.4

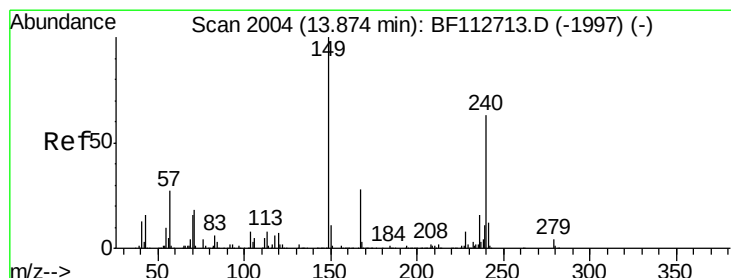
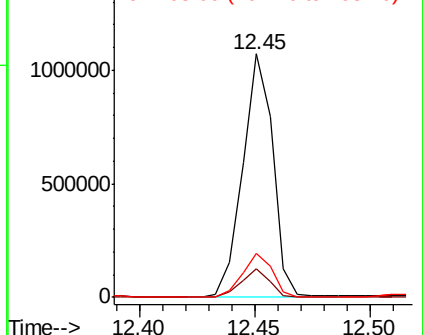
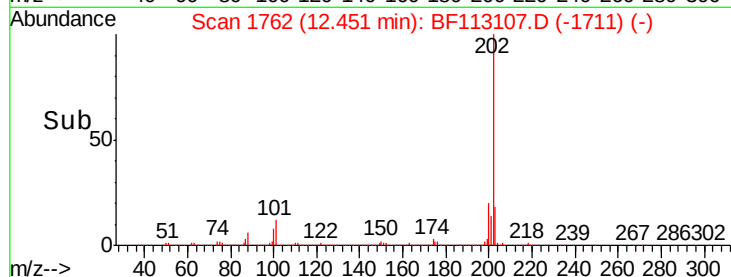


Abundance

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: 13.87 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

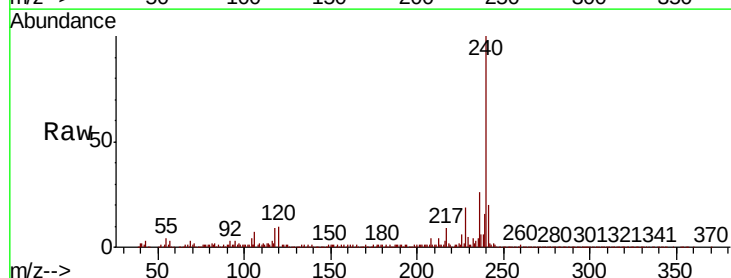
Tgt Ion:240 Resp: 472919

Ion Ratio Lower Upper

240 100

120 10.4 8.9 13.3

236 26.1 20.7 31.1

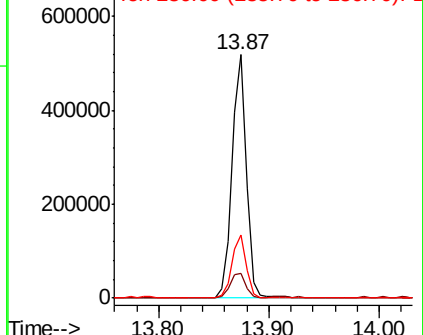
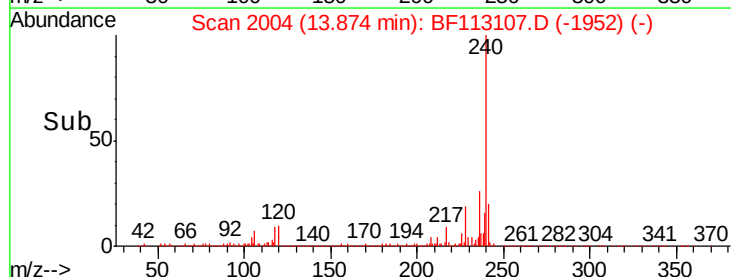


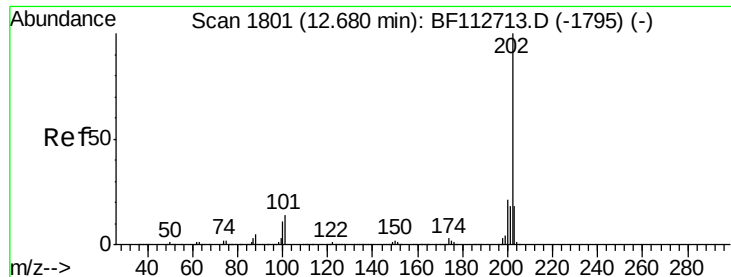
Abundance

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





#78

Pyrene

Concen: 27.603 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

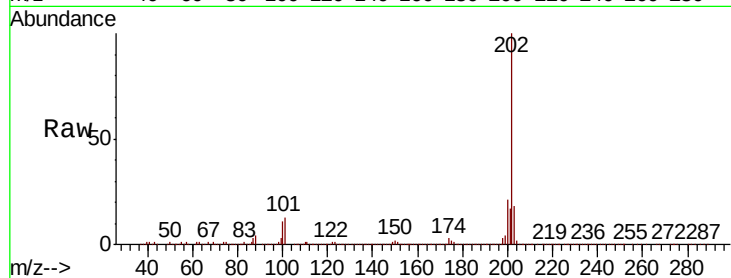
Tgt Ion:202 Resp: 1100469

Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

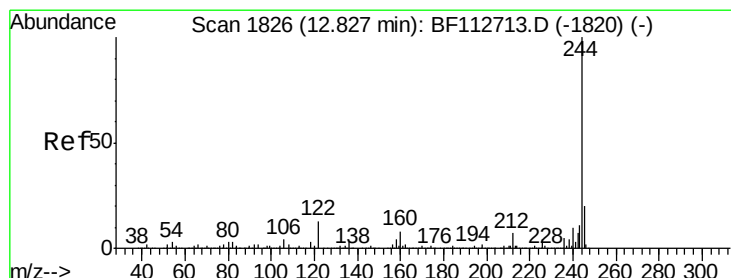
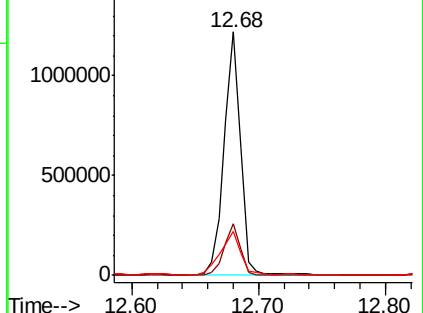
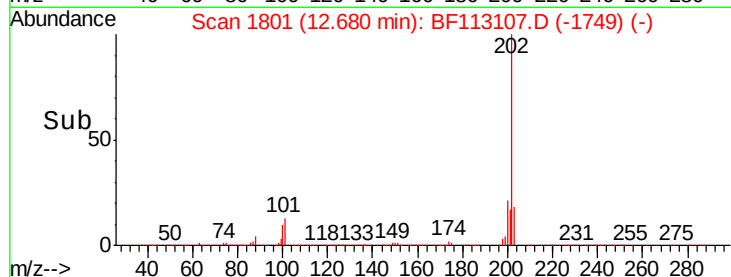
203 18.2 14.4 21.6



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: 27.837 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.00 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

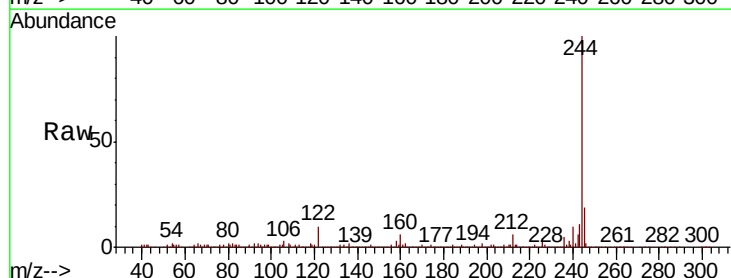
Tgt Ion:244 Resp: 679104

Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

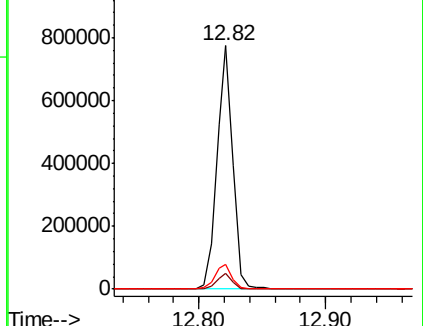
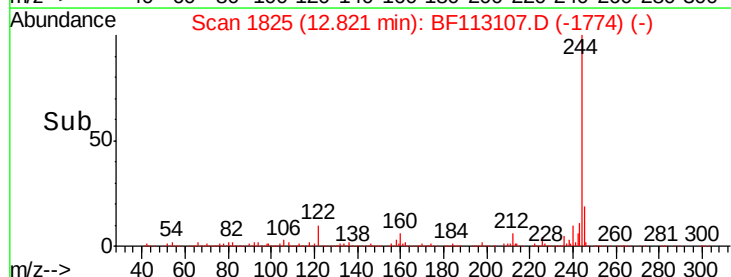
122 10.3 10.5 15.7#

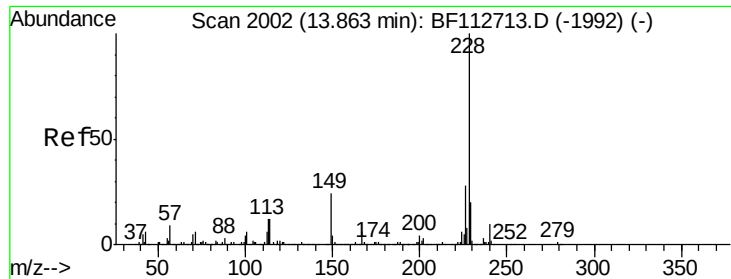


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 17.421 ng

RT: 13.86 min Scan# 2002

Delta R.T. 0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

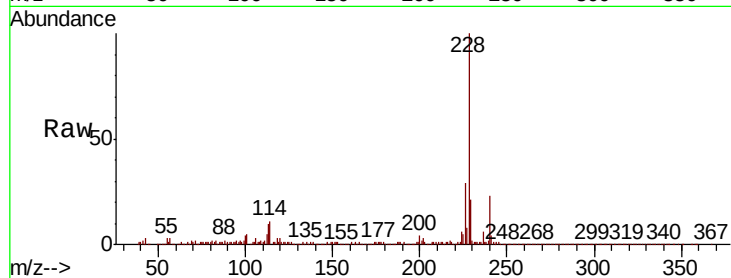
Tgt Ion:228 Resp: 570988

Ion Ratio Lower Upper

228 100

226 29.1 22.2 33.4

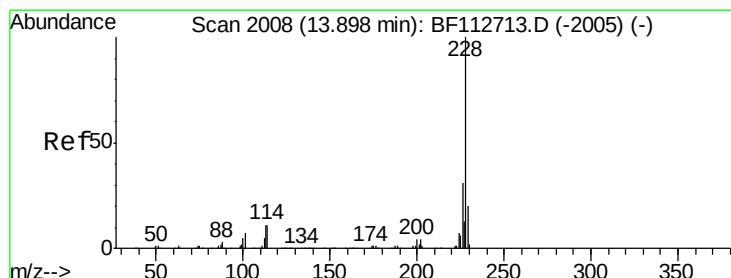
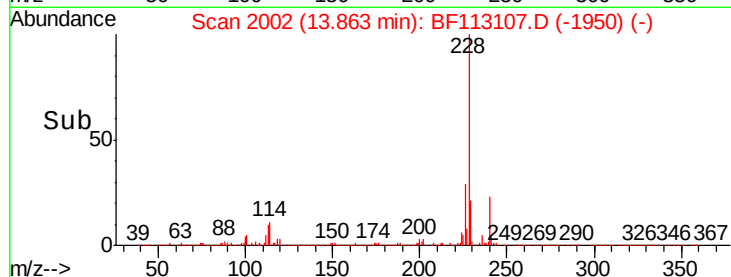
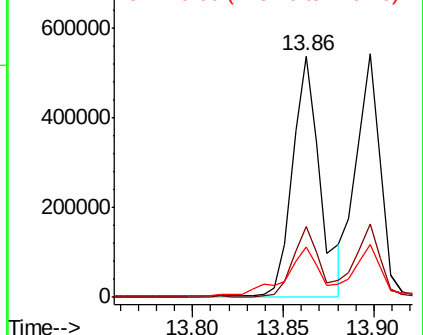
229 21.0 16.0 24.0



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: 15.686 ng

RT: 13.90 min Scan# 2008

Delta R.T. -0.00 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

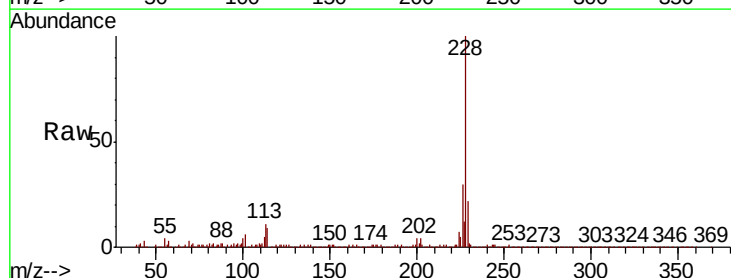
Tgt Ion:228 Resp: 503608

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

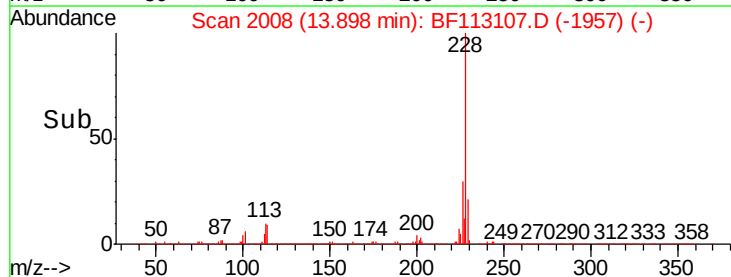
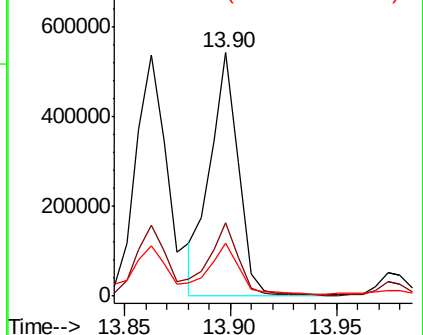
229 21.8 16.3 24.5

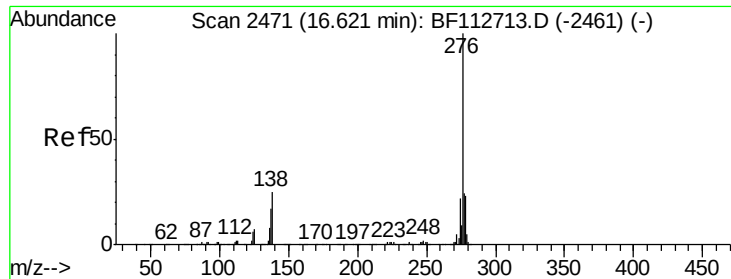


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

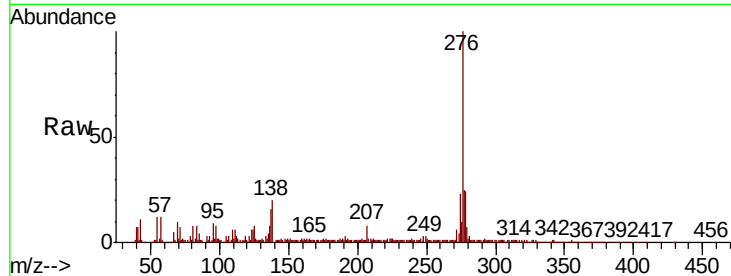




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.954 ng
 RT: 16.65 min Scan# 2476
 Delta R.T. 0.01 min
 Lab File: BF113107.D
 Acq: 18 Mar 2019 22:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-16(0.5-1.5)

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.1	23.2	34.8#
277	23.5	19.9	29.9

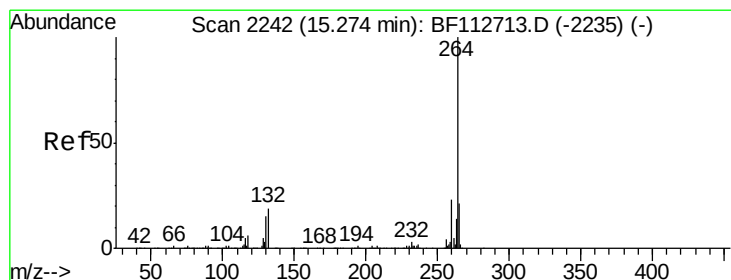
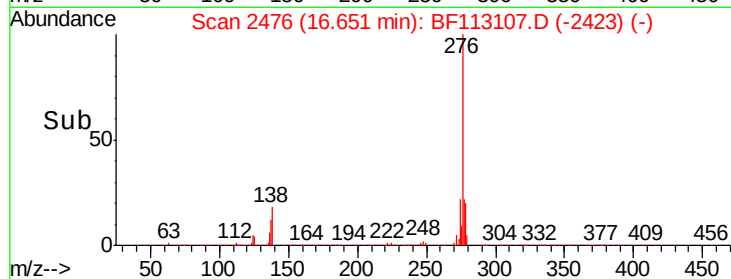
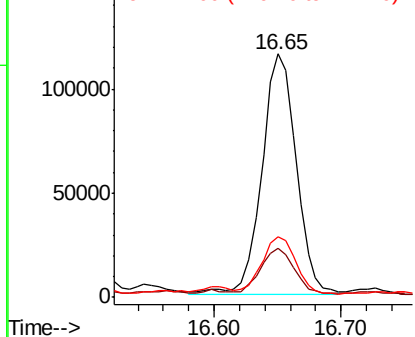


Abundance

Ion 276.00 (275.70 to 276.70): E

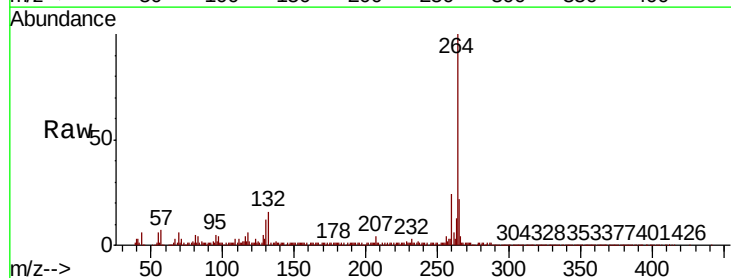
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.29 min Scan# 2244
 Delta R.T. 0.01 min
 Lab File: BF113107.D
 Acq: 18 Mar 2019 22:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	22.2	17.2	25.8

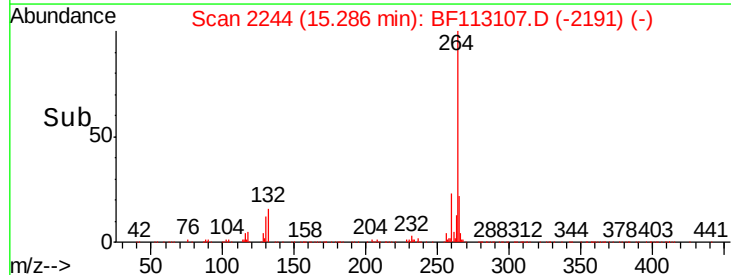
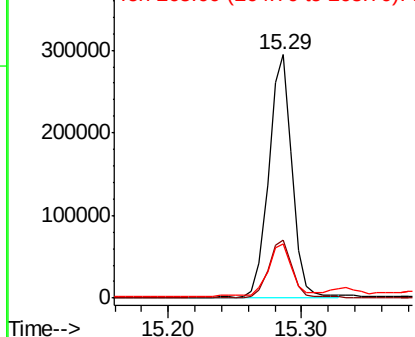


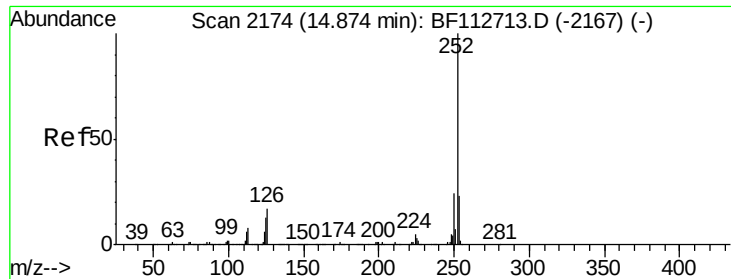
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

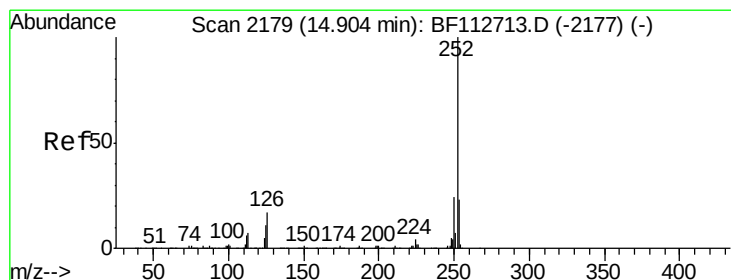
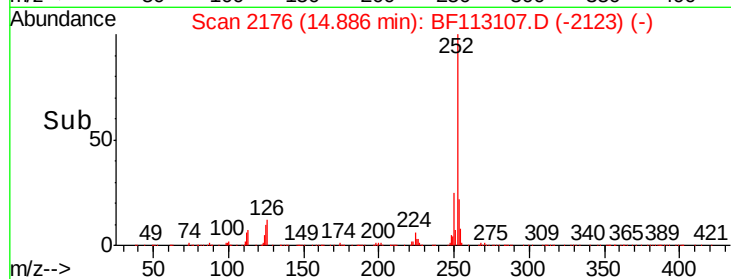
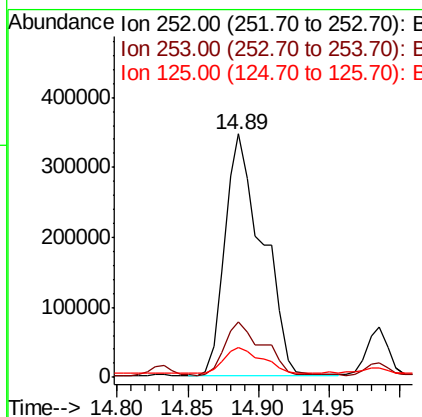
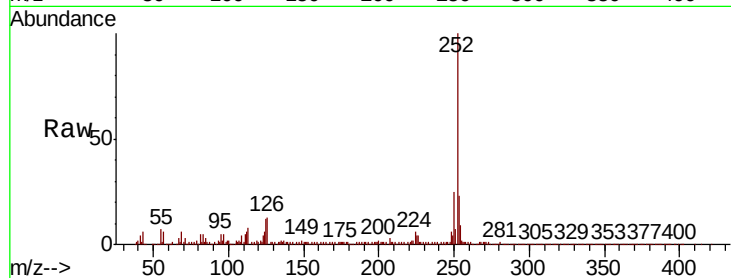




#88
Benzo(b)fluoranthene
Concen: 27.998 ng
RT: 14.89 min Scan# 2176
Delta R.T. 0.01 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

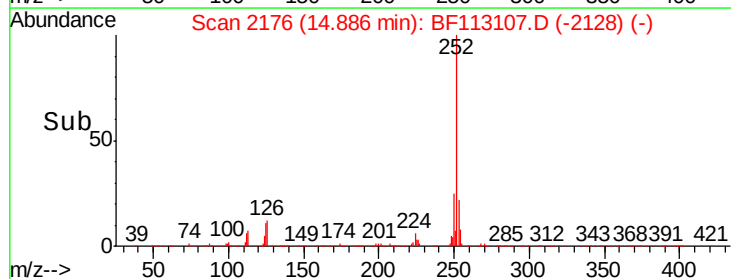
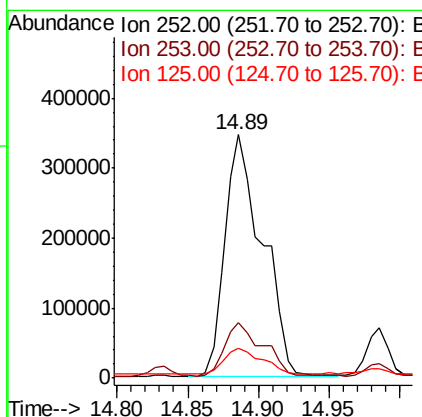
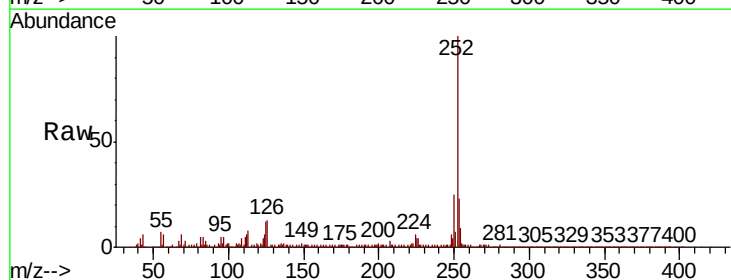
Instrument :
BNA_F
ClientSampleId :
SB-16(0.5-1.5)

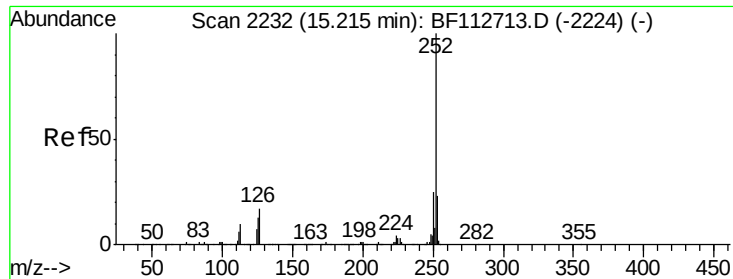
Tgt Ion: 252 Resp: 641669
Ion Ratio Lower Upper
252 100
253 23.0 18.0 27.0
125 12.4 10.2 15.2



#89
Benzo(k)fluoranthene
Concen: 30.909 ng
RT: 14.89 min Scan# 2176
Delta R.T. -0.02 min
Lab File: BF113107.D
Acq: 18 Mar 2019 22:56

Tgt Ion: 252 Resp: 641669
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.2
125 12.4 9.8 14.6





#90

Benzo(a)pyrene

Concen: 17.953 ng

RT: 15.23 min Scan# 2234

Delta R.T. 0.01 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

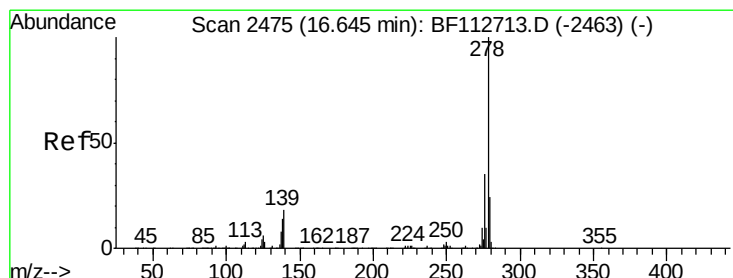
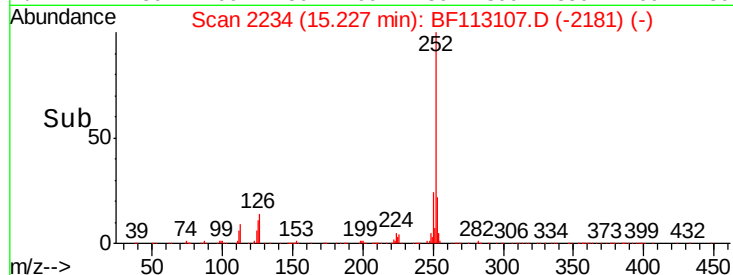
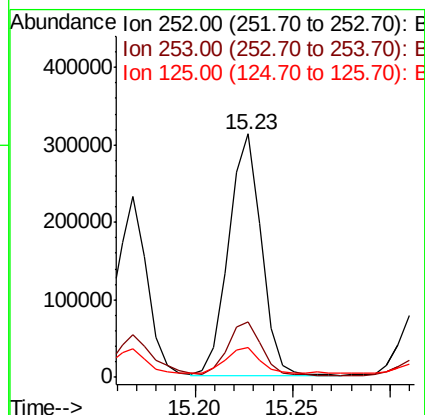
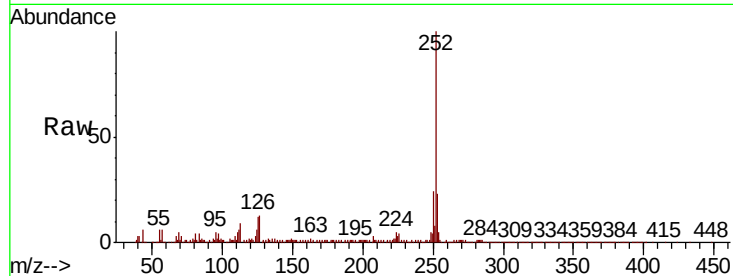
Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

Tgt Ion:	252	Resp:	363946
Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.0	27.0
125	12.0	10.7	16.1



#91

Dibenzo(a,h)anthracene

Concen: 2.819 ng

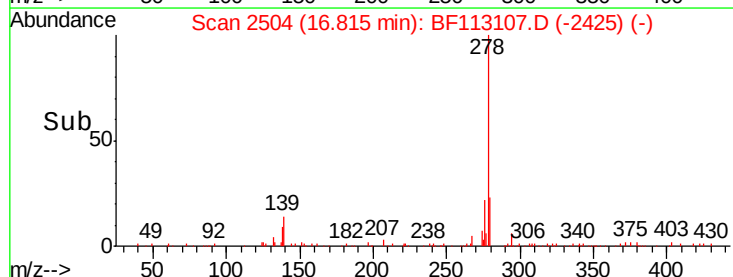
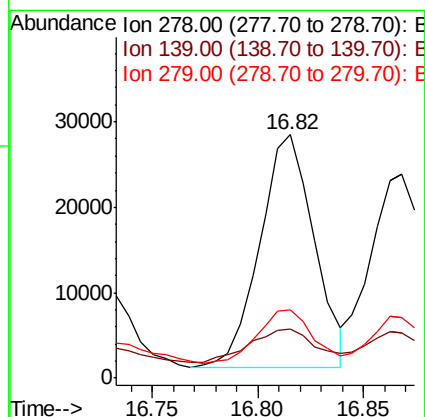
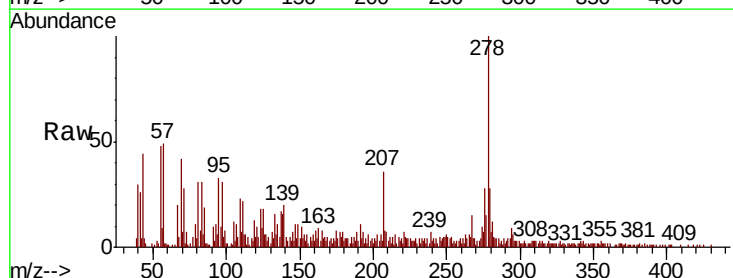
RT: 16.82 min Scan# 2504

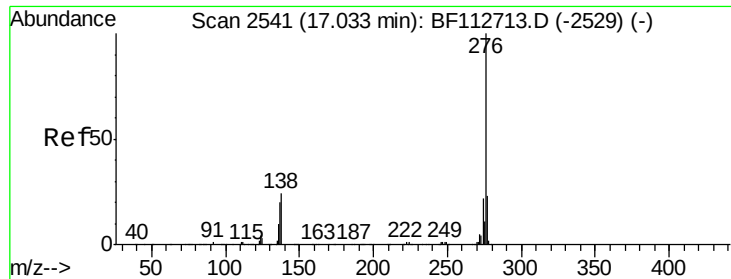
Delta R.T. 0.16 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Tgt Ion:	278	Resp:	48768
Ion	Ratio	Lower	Upper
278	100		
139	20.1	14.3	21.5
279	28.1	19.4	29.0





#92

Benzo(g,h,i)perylene

Concen: 12.275 ng

RT: 17.06 min Scan# 2546

Delta R.T. 0.02 min

Lab File: BF113107.D

Acq: 18 Mar 2019 22:56

Instrument :

BNA_F

ClientSampleId :

SB-16(0.5-1.5)

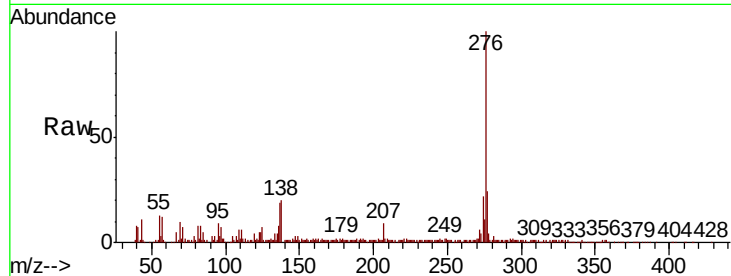
Tgt Ion:276 Resp: 213208

Ion Ratio Lower Upper

276 100

277 24.2 18.6 27.8

138 19.6 19.4 29.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

