

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040319\
 Data File : BF113571.D
 Acq On : 4 Apr 2019 4:47
 Operator : JU/SJ
 Sample : K2199-03 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 07:24:22 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	6.69	152	105196	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	360962	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	155111	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	320951	20.00	ng	0.00
76) Chrysene-d12	13.84	240	289355	20.00	ng	0.00
87) Perylene-d12	15.26	264	211558	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.30	112	128583	20.84	ng	0.00
7) Phenol-d6	6.33	99	171560	22.56	ng	0.00
23) Nitrobenzene-d5	7.25	82	84638	13.73	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	40994	22.00	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	179389	18.62	ng	0.00
79) Terphenyl-d14	12.79	244	222087	15.63	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.25	70	10914	2.328	ng	# 77
25) Isophorone	7.25	82	84637	7.130	ng	# 64
51) 2,6-Dinitrotoluene	9.72	165	20130	7.987	ng	# 25
56) 4-Nitrophenol	9.93	139	3840	2.160	ng	# 7
57) 2,4-Dinitrotoluene	9.72	165	20130	6.604	ng	# 22
71) Phenanthrene	11.23	178	148158	9.290	ng	97
72) Anthracene	11.28	178	45511	2.805	ng	99
75) Fluoranthene	12.42	202	244575	14.311	ng	99
78) Pyrene	12.64	202	220411	10.011	ng	97
81) Benzo(a)anthracene	13.83	228	91202	5.464	ng	99
83) Chrysene	13.87	228	87945	5.198	ng	98
86) Indeno(1,2,3-cd)pyrene	16.63	276	36617	2.344	ng	96
88) Benzo(b)fluoranthene	14.86	252	115962	8.955	ng	# 97
89) Benzo(k)fluoranthene	14.86	252	115962	9.978	ng	# 97
90) Benzo(a)pyrene	15.20	252	61099	5.310	ng	# 94
92) Benzo(g,h,i)perylene	17.03	276	35970	3.275	ng	# 94

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

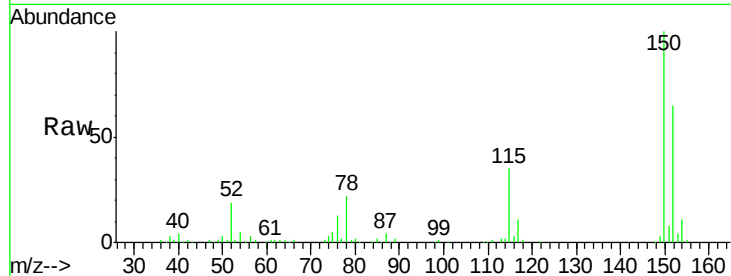


#1

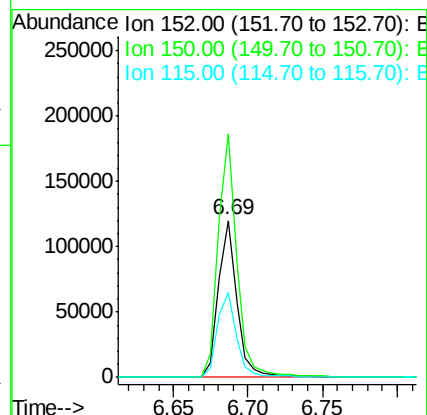
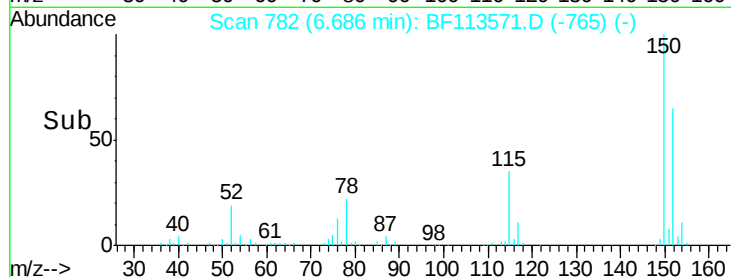
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 782
Delta R.T. -0.00 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.7	187.1
115	54.1	46.0	69.0



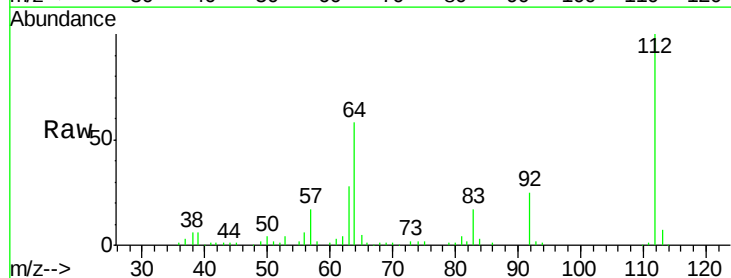
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



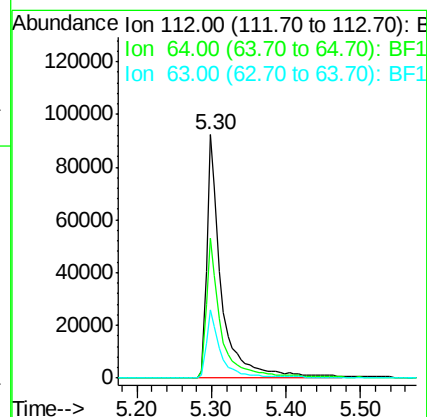
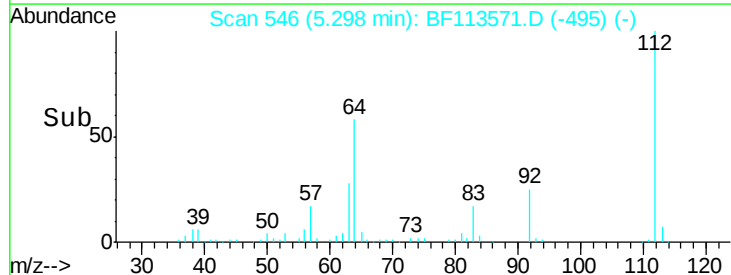
#5

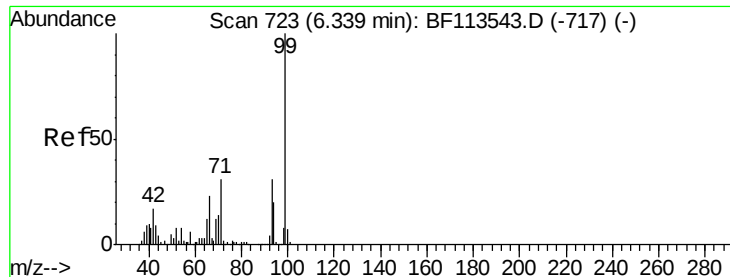
2-Fluorophenol
Concen: 20.843 ng
RT: 5.30 min Scan# 546
Delta R.T. -0.00 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.5	49.2	73.8
63	27.8	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: 22.564 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Instrument :

BNA_F

ClientSampleId :

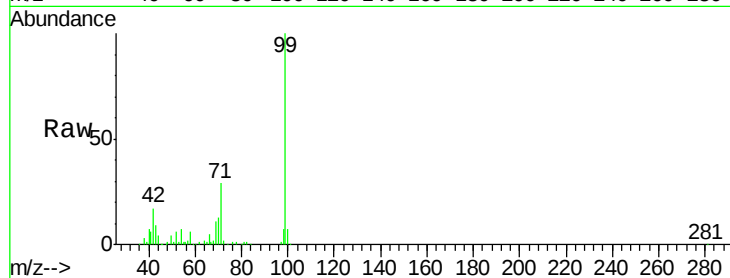
Tot Ion: 99 Resp: 171560

Ion Ratio Lower Upper

99 100

42 17.2 14.8 22.2

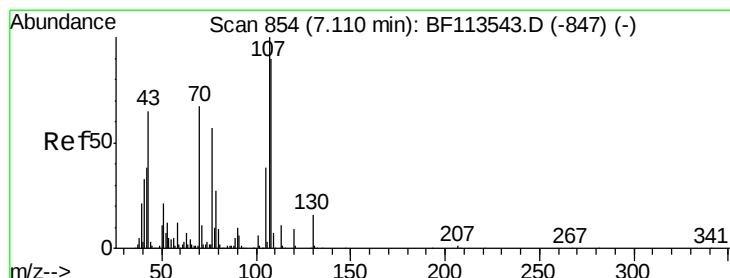
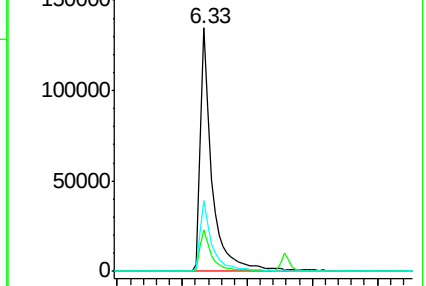
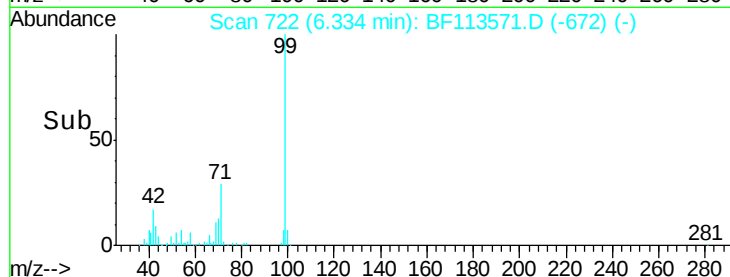
71 28.9 24.9 37.3



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: 2.328 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.14 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Tgt Ion: 70 Resp: 10914

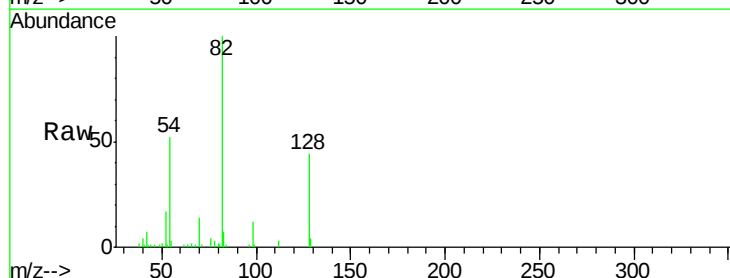
Ion Ratio Lower Upper

70 100

42 50.5 48.4 72.6

101 0.0 7.8 11.8#

130 0.0 18.2 27.4#

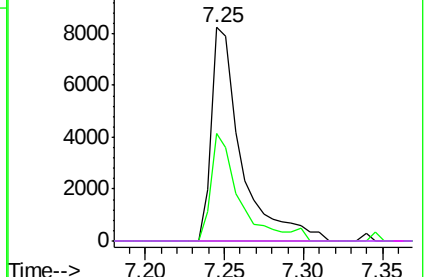
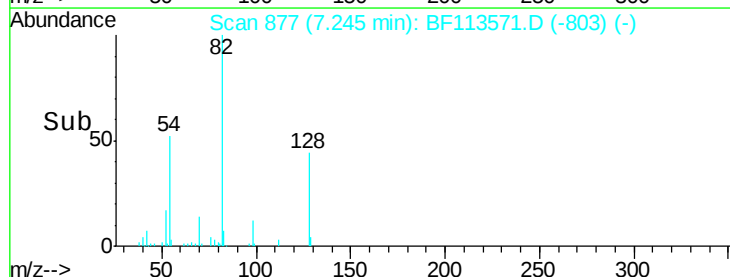


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 7.97 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 360962

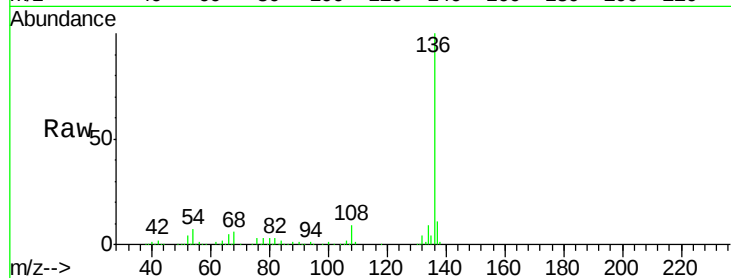
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.4 7.0 10.6

68 6.0 4.8 7.2

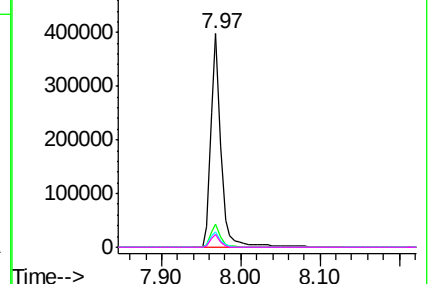
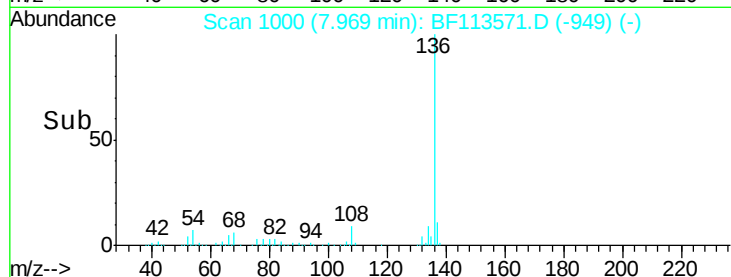


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.735 ng

RT: 7.25 min Scan# 878

Delta R.T. -0.01 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

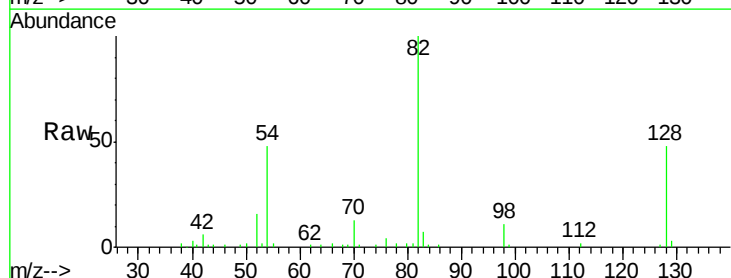
Tgt Ion: 82 Resp: 84638

Ion Ratio Lower Upper

82 100

128 47.6 36.5 54.7

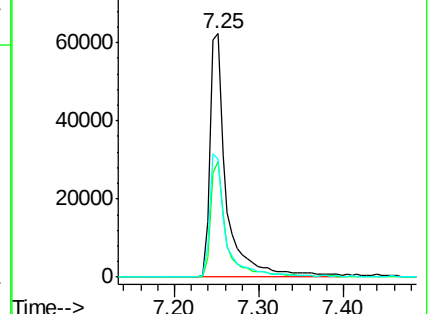
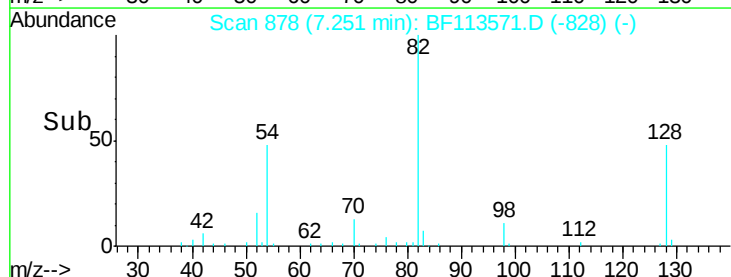
54 48.4 42.2 63.2

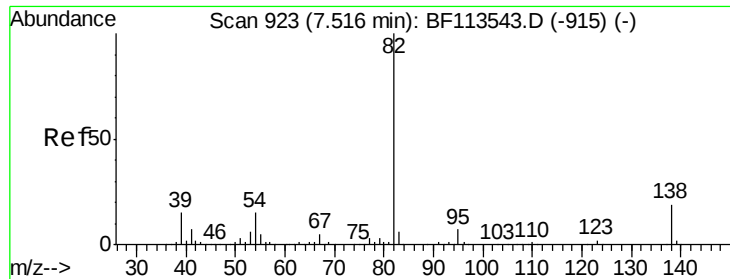


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

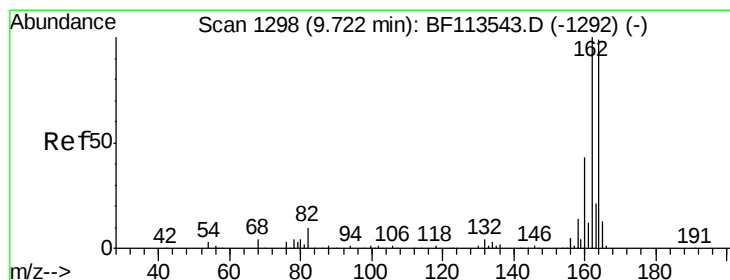
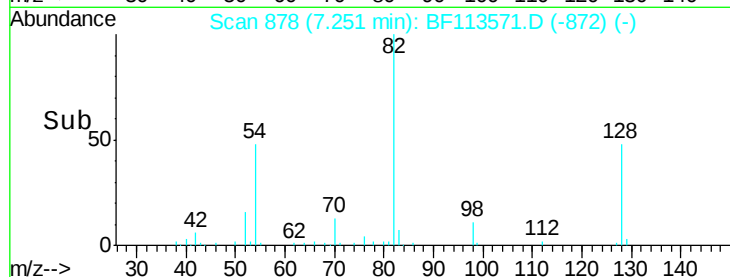
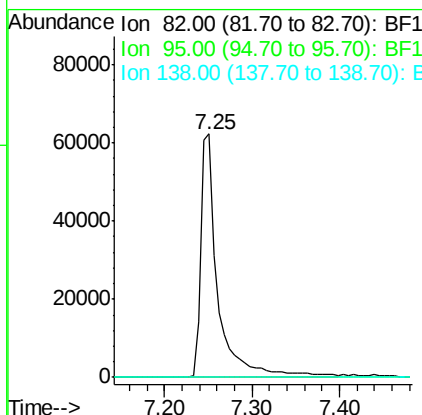
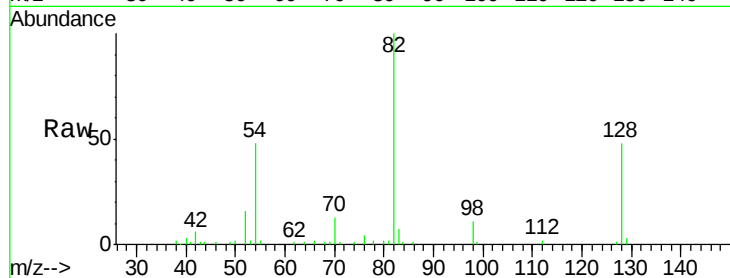




#25
Isophorone
Concen: 7.130 ng
RT: 7.25 min Scan# 878
Delta R.T. -0.26 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

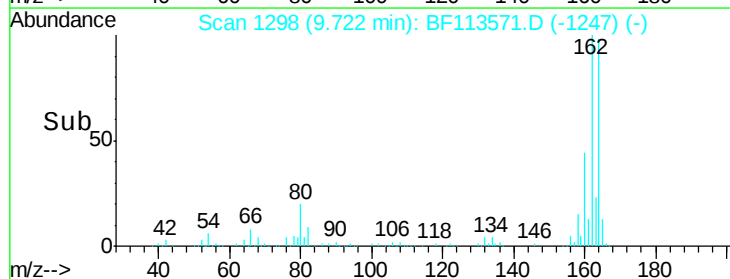
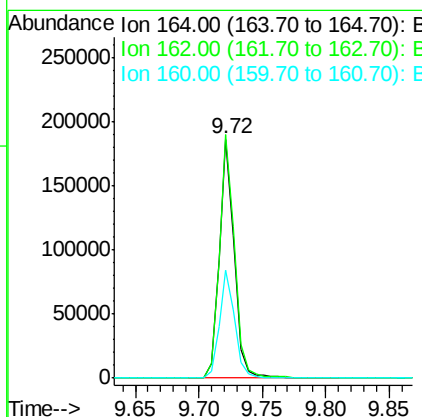
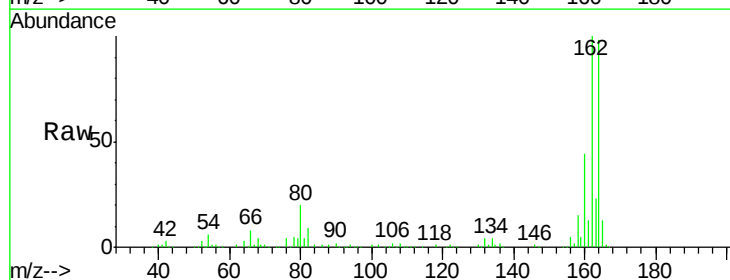
Instrument :
BNA_F
ClientSampleId :

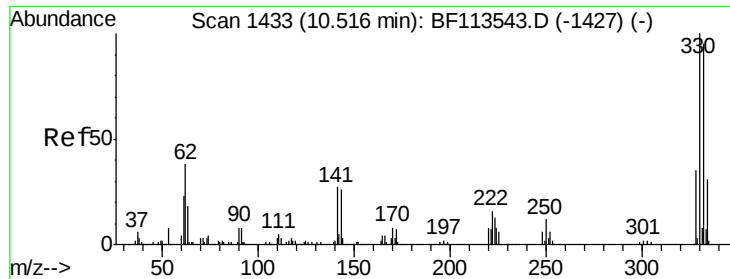
Tot Ion: 82 Resp: 84637
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion:164 Resp: 155111
Ion Ratio Lower Upper
164 100
162 101.9 81.8 122.6
160 45.1 36.4 54.6

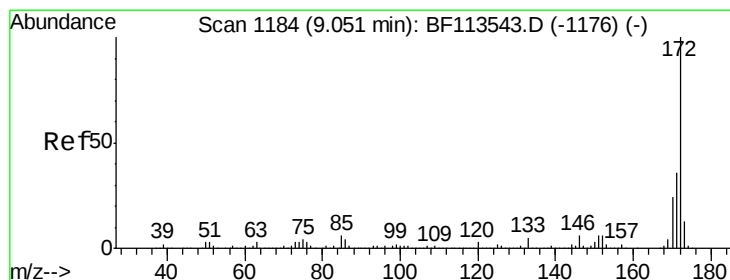
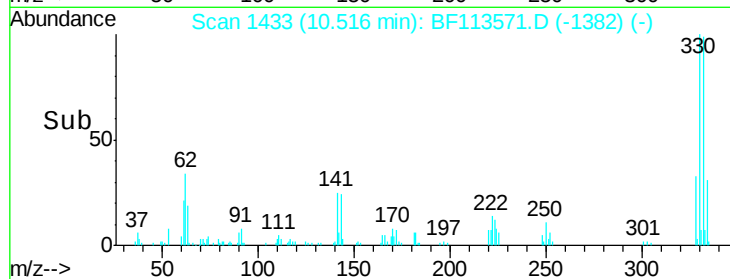
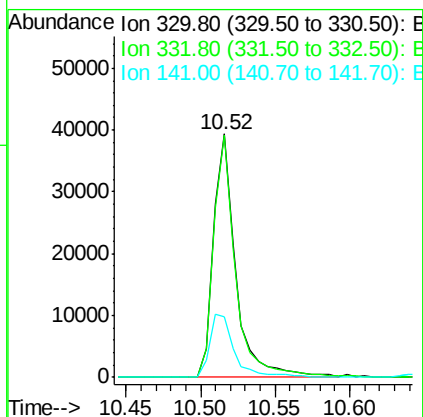
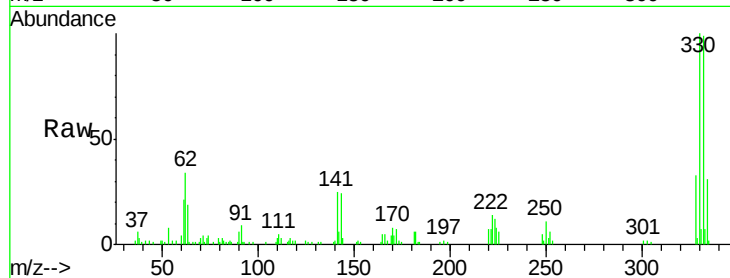




#42
 2,4,6-Tribromophenol
 Concen: 22.001 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

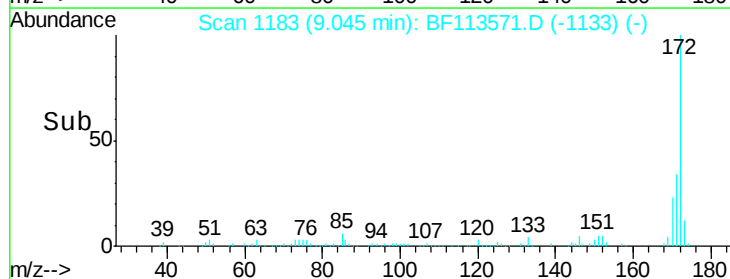
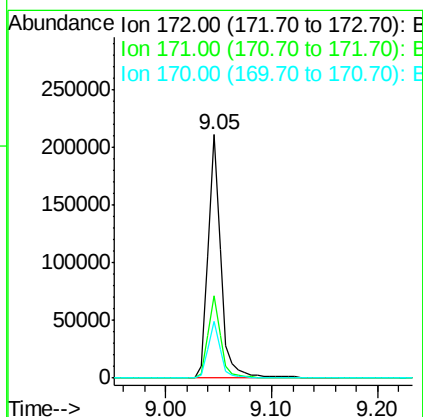
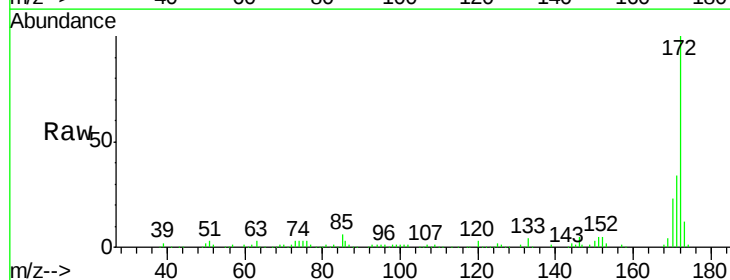
Instrument :
 BNA_F
 ClientSampleId :

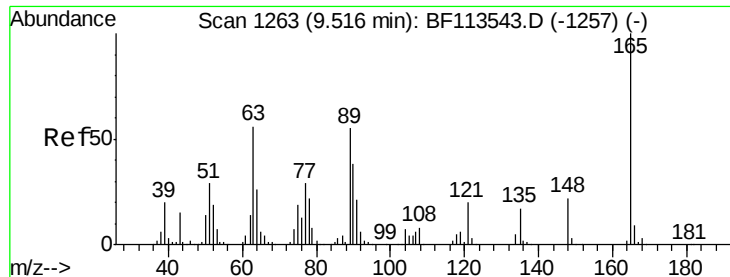
Tot Ion:330 Resp: 40994
 Ion Ratio Lower Upper
 330 100
 332 98.7 77.8 116.6
 141 28.7 22.7 34.1



#45
 2-Fluorobiphenyl
 Concen: 18.619 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

Tgt Ion:172 Resp: 179389
 Ion Ratio Lower Upper
 172 100
 171 33.9 29.0 43.6
 170 23.3 19.5 29.3





#51

2,6-Dinitrotoluene

Concen: 7.987 ng

RT: 9.72 min Scan# 1298

Delta R.T. 0.21 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Instrument :

BNA_F

ClientSampleId :

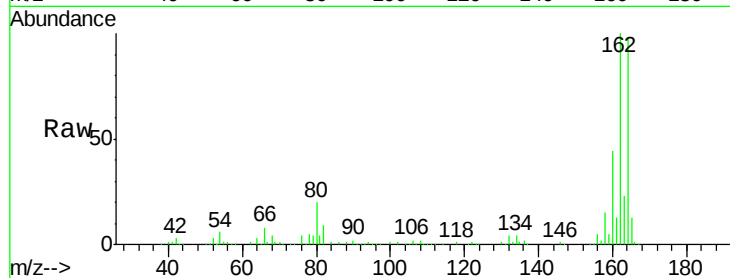
Tot Ion:165 Resp: 20130

Ion Ratio Lower Upper

165 100

63 0.0 43.4 65.0#

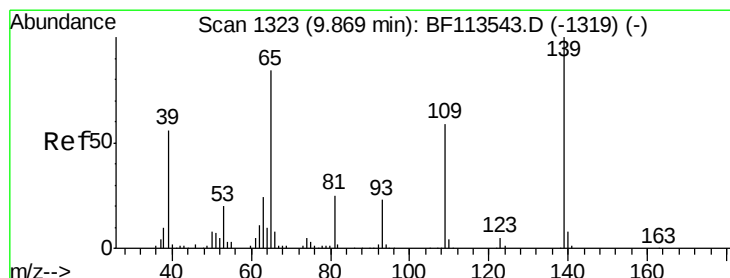
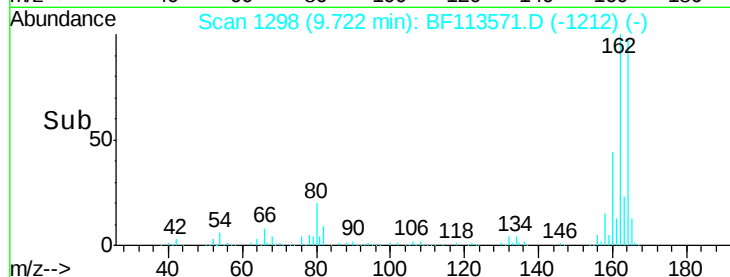
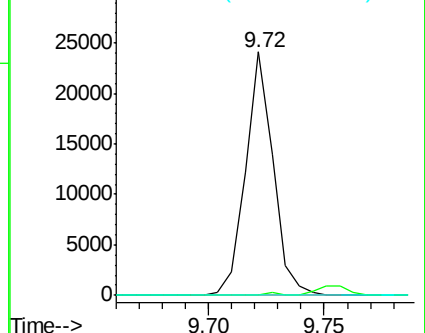
89 0.0 43.1 64.7#



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: 2.160 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.06 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

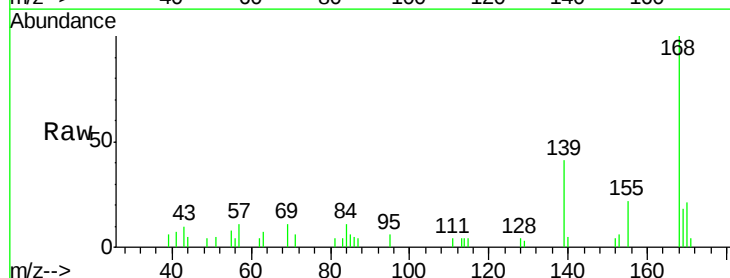
Tgt Ion:139 Resp: 3840

Ion Ratio Lower Upper

139 100

109 0.0 46.9 86.9#

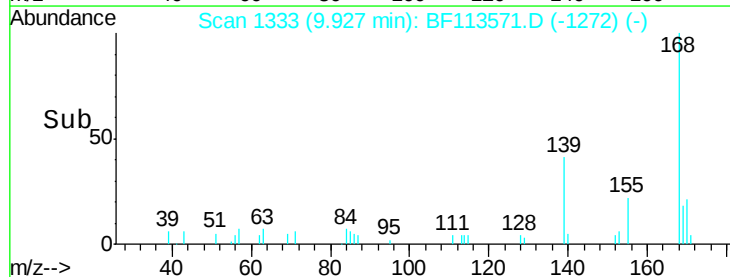
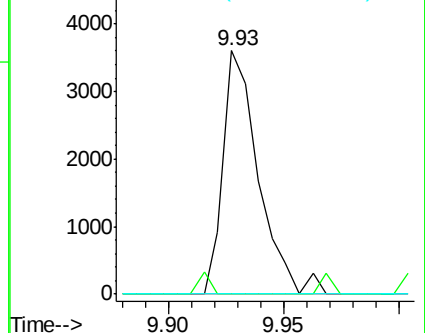
65 0.0 77.2 117.2#

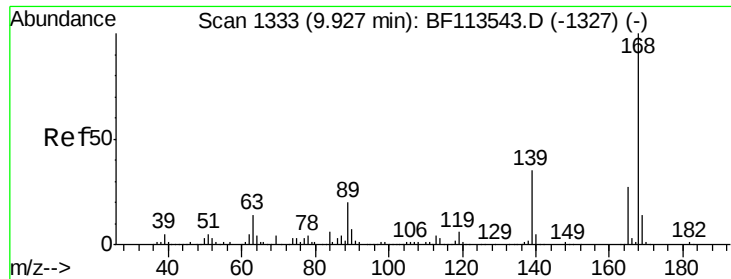


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

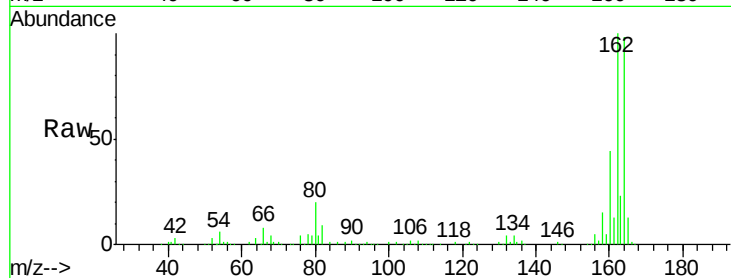




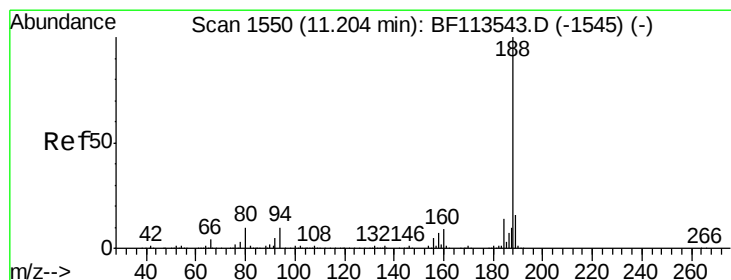
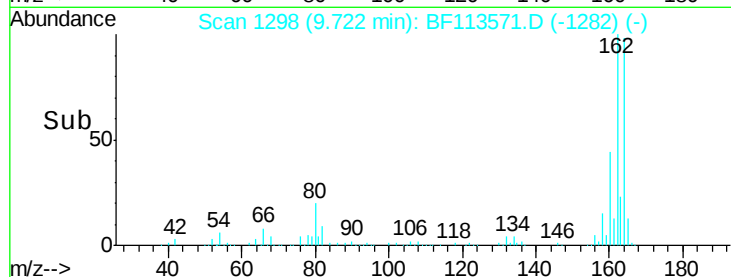
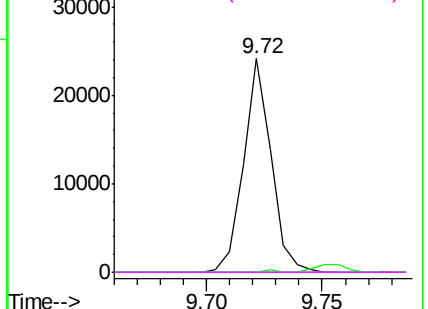
#57
 2,4-Dinitrotoluene
 Concen: 6.604 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.21 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 20130
 Ion Ratio Lower Upper
 165 100
 63 0.0 37.5 56.3#
 89 0.0 57.4 86.2#
 182 0.0 2.0 3.0#

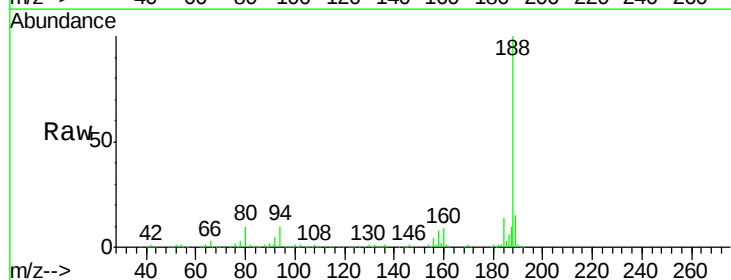


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

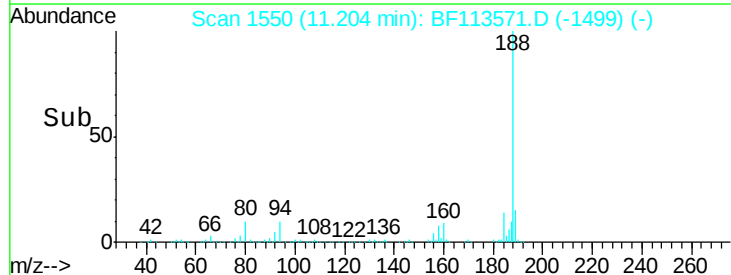
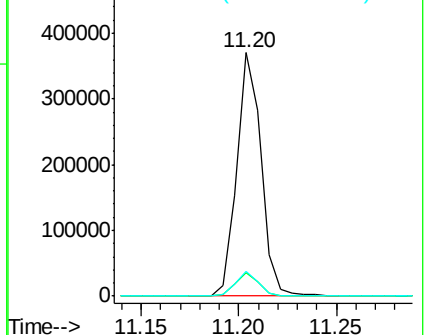


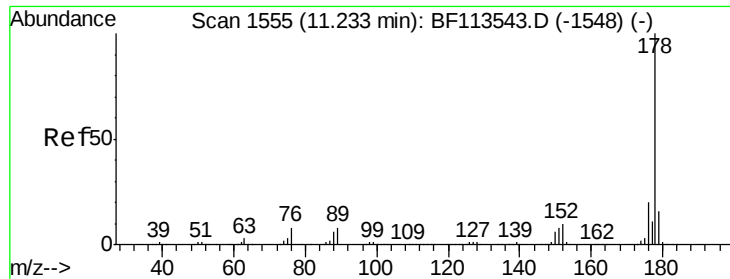
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1550
 Delta R.T. -0.00 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

Tgt Ion:188 Resp: 320951
 Ion Ratio Lower Upper
 188 100
 94 9.8 7.0 10.6
 80 10.0 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

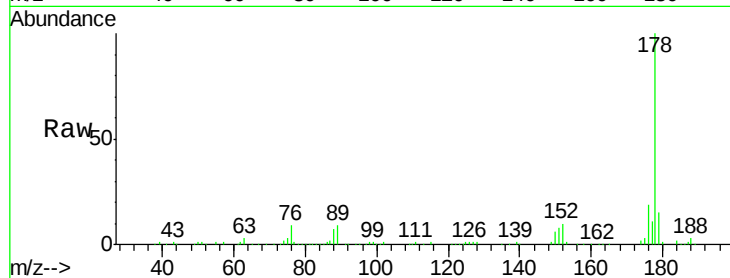




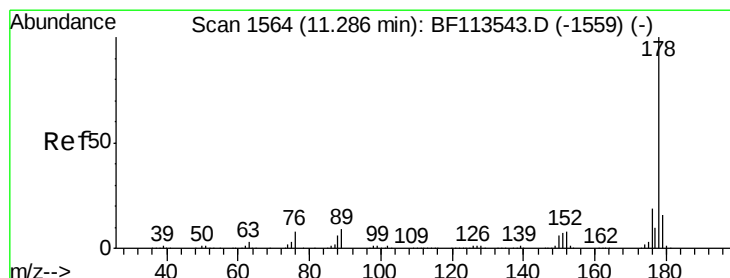
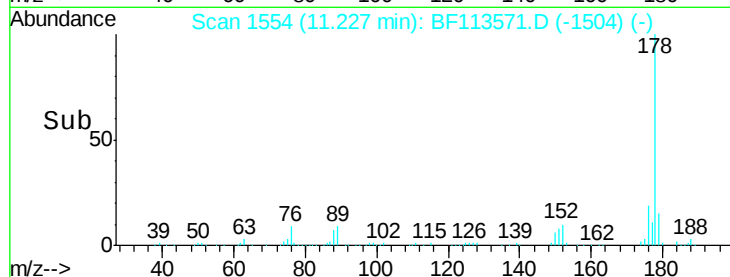
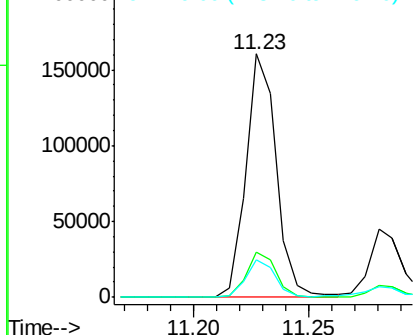
#71
Phenanthrene
Concen: 9.290 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 148158
Ion Ratio Lower Upper
178 100
176 18.6 16.2 24.2
179 15.2 12.7 19.1

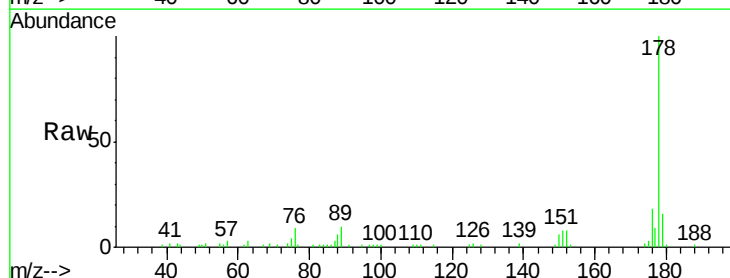


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

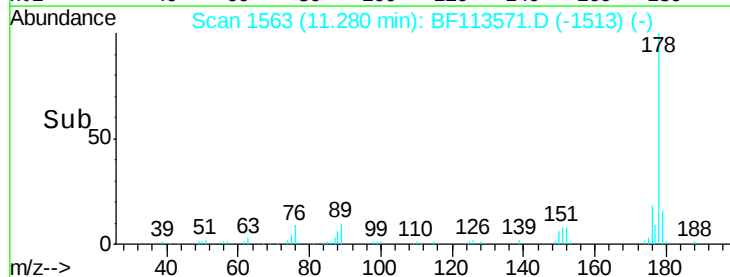
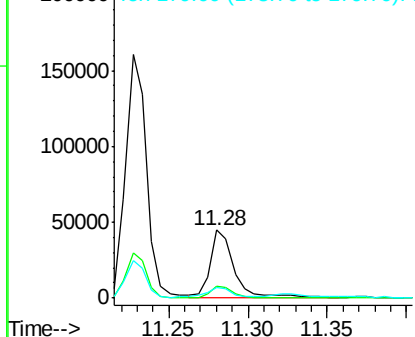


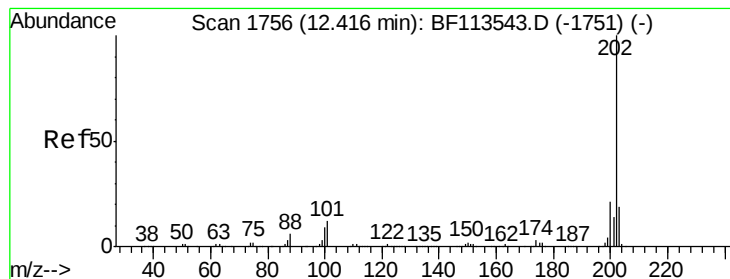
#72
Anthracene
Concen: 2.805 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion:178 Resp: 45511
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 16.3 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: 14.311 ng

RT: 12.42 min Scan# 1756

Delta R.T. -0.00 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Instrument :

BNA_F

ClientSampleId :

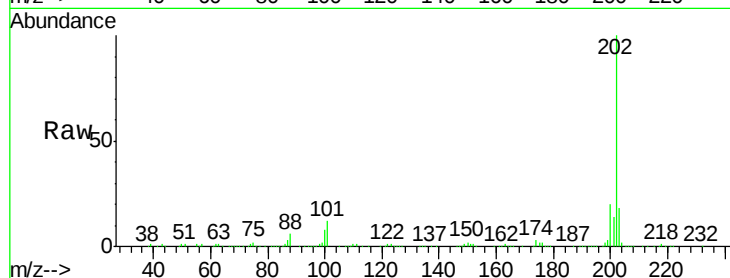
Tot Ion:202 Resp: 244575

Ion Ratio Lower Upper

202 100

101 11.7 0.0 31.4

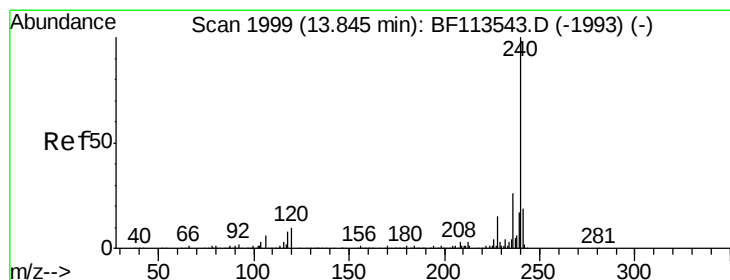
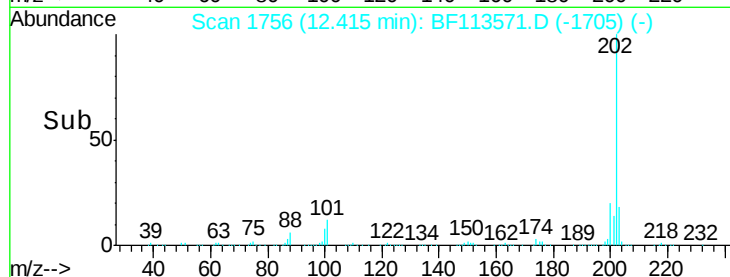
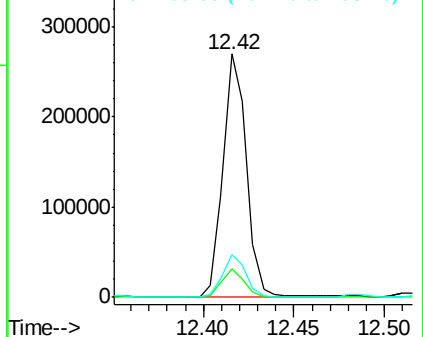
203 17.6 0.0 38.0



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: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

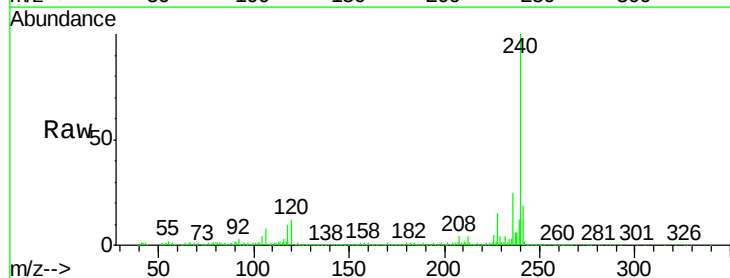
Tgt Ion:240 Resp: 289355

Ion Ratio Lower Upper

240 100

120 12.0 8.8 13.2

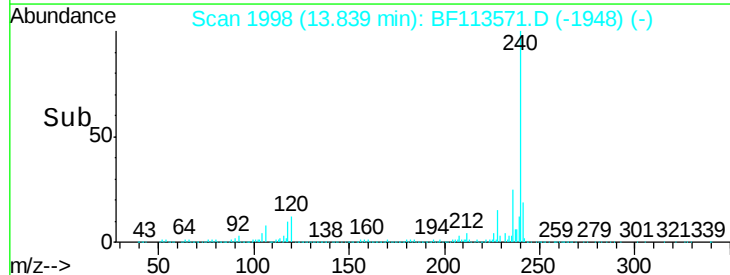
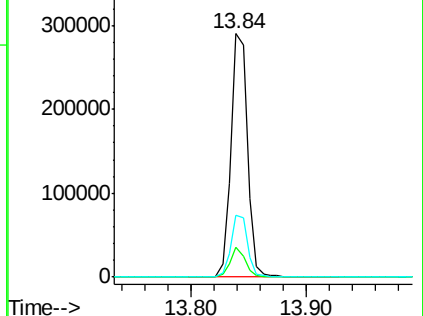
236 25.4 20.9 31.3

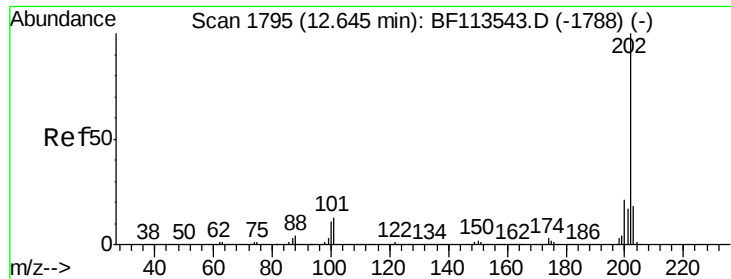


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

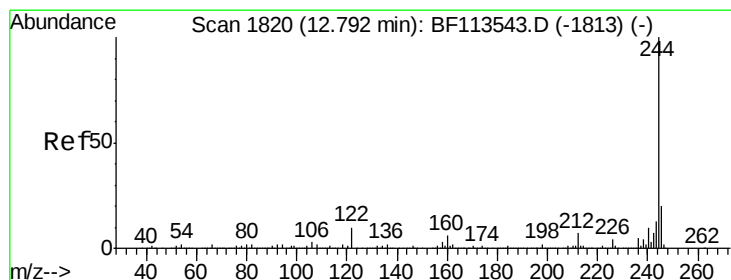
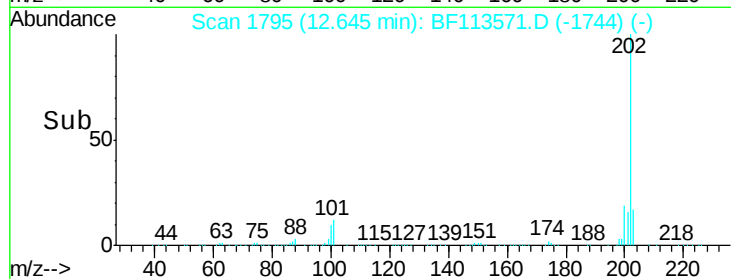
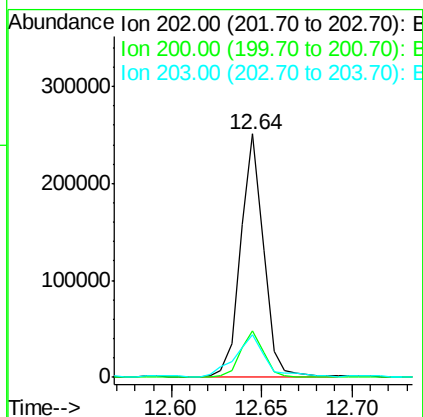
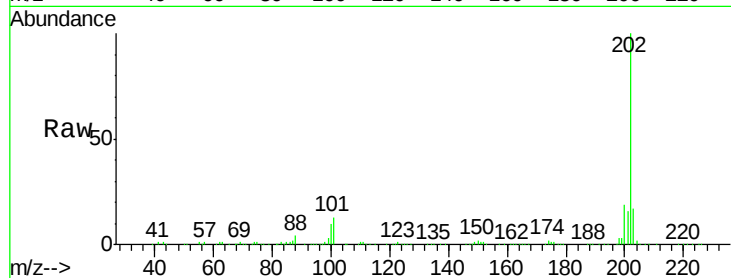




#78
Pvrene
Concen: 10.011 ng
RT: 12.64 min Scan# 1795
Delta R.T. -0.00 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

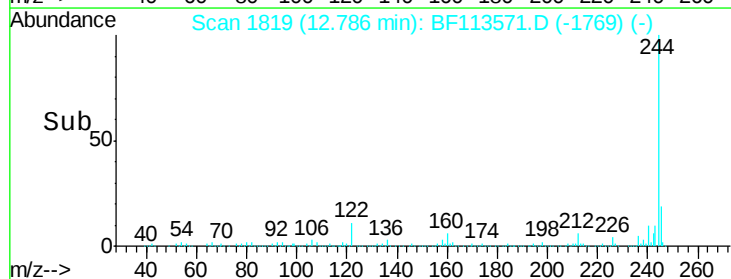
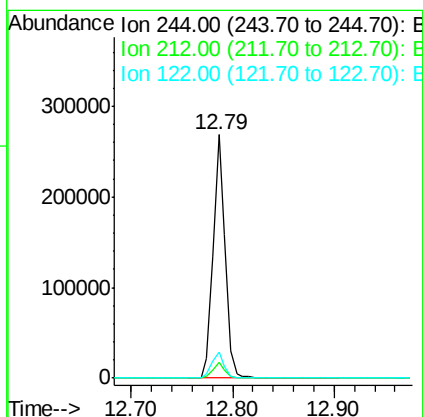
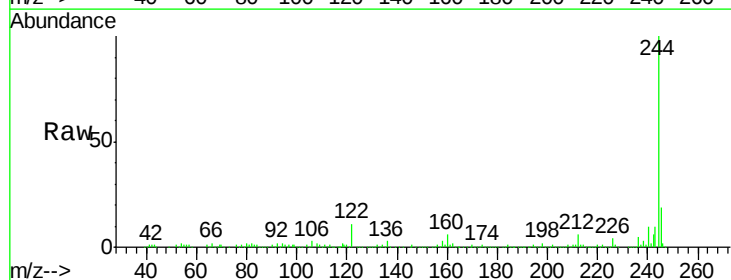
Instrument :
BNA_F
ClientSampleId :

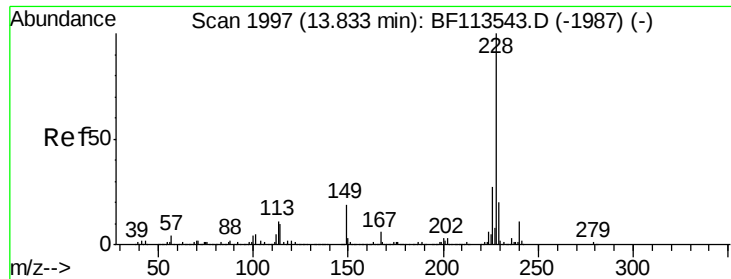
Tot Ion:202 Resp: 220411
Ion Ratio Lower Upper
202 100
200 19.3 16.8 25.2
203 17.4 14.4 21.6



#79
Terphenyl-d14
Concen: 15.627 ng
RT: 12.79 min Scan# 1819
Delta R.T. -0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion:244 Resp: 222087
Ion Ratio Lower Upper
244 100
212 6.3 5.5 8.3
122 10.8 8.6 13.0





#81

Benzo(a)anthracene

Concen: 5.464 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.00 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

Instrument :

BNA_F

ClientSampleId :

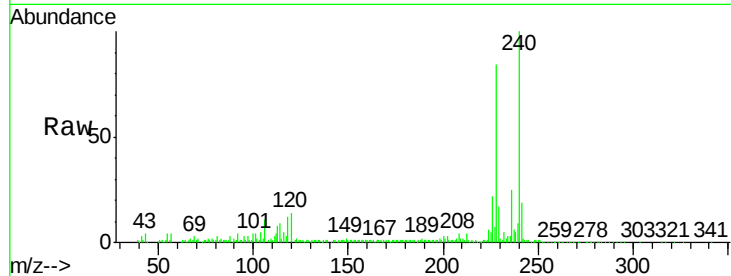
Tot Ion:228 Resp: 91202

Ion Ratio Lower Upper

228 100

226 26.4 21.8 32.8

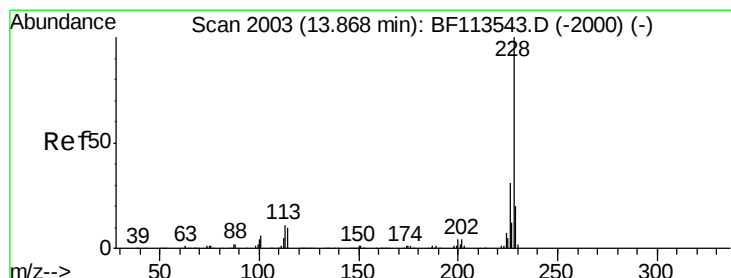
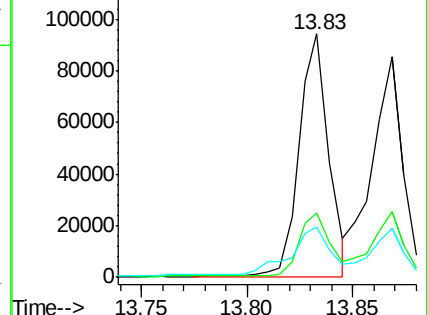
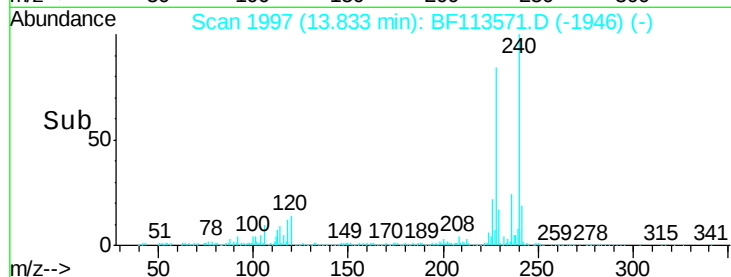
229 20.6 16.2 24.4



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: 5.198 ng

RT: 13.87 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BF113571.D

Acq: 4 Apr 2019 4:47

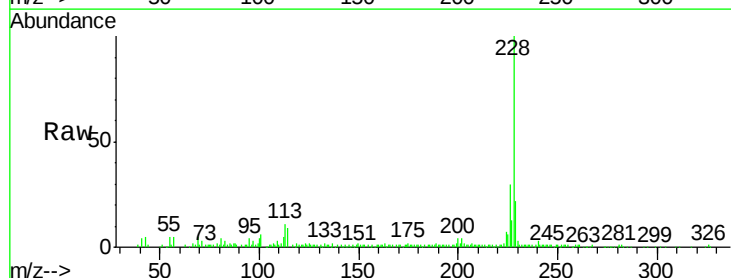
Tgt Ion:228 Resp: 87945

Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

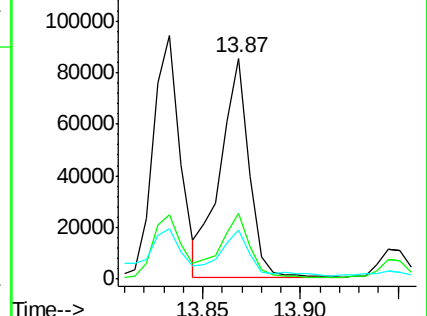
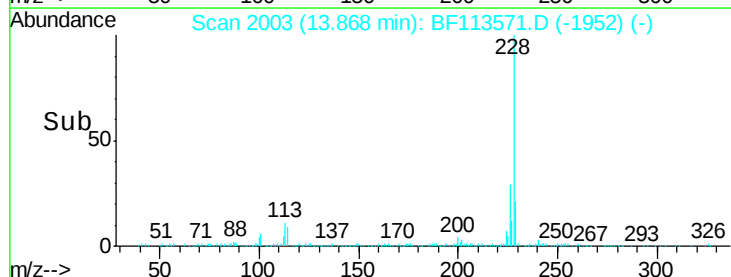
229 22.2 16.3 24.5

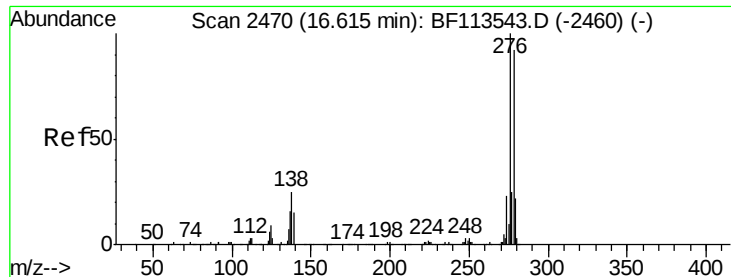


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

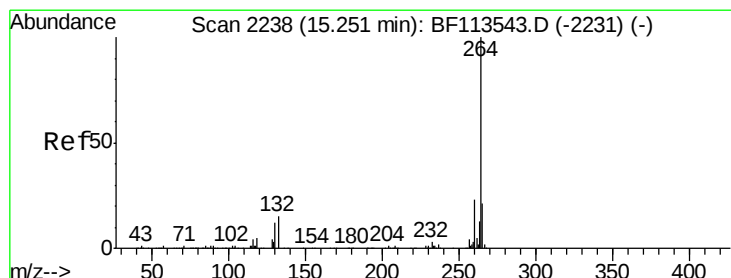
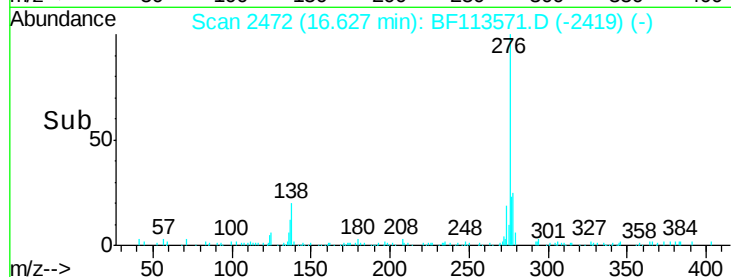
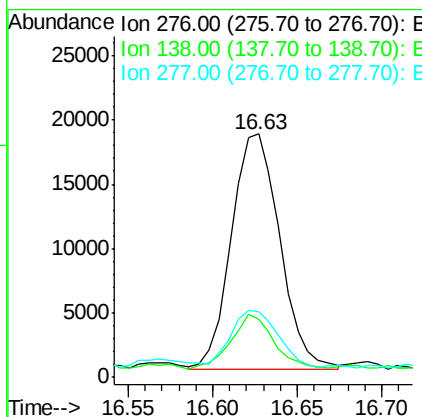
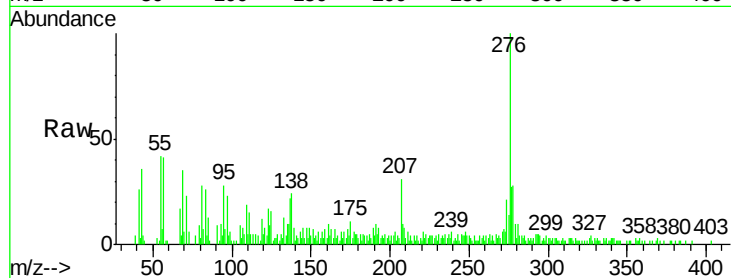




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.344 ng
 RT: 16.63 min Scan# 2472
 Delta R.T. 0.01 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

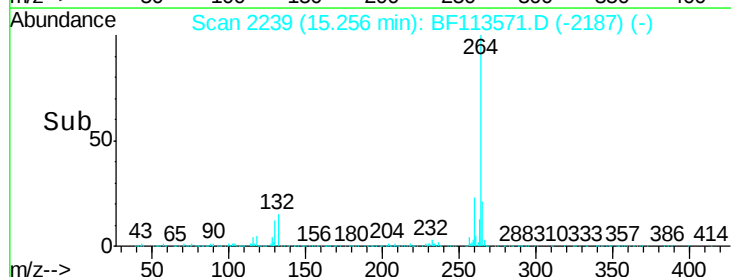
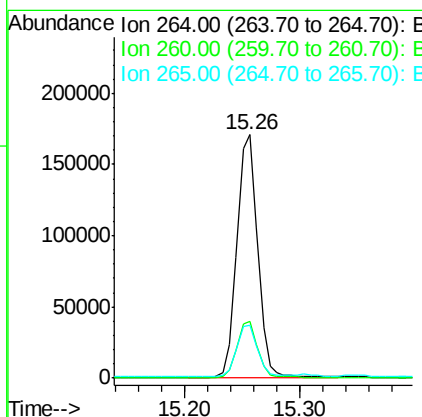
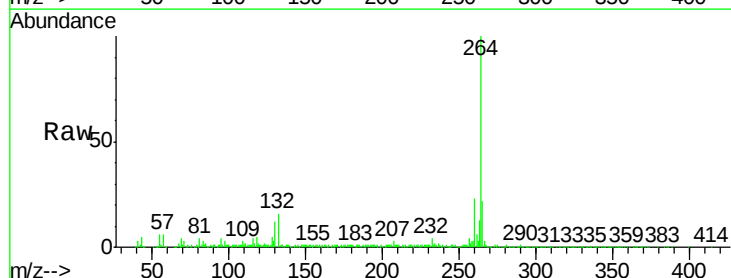
Instrument :
 BNA_F
 ClientSampleId :

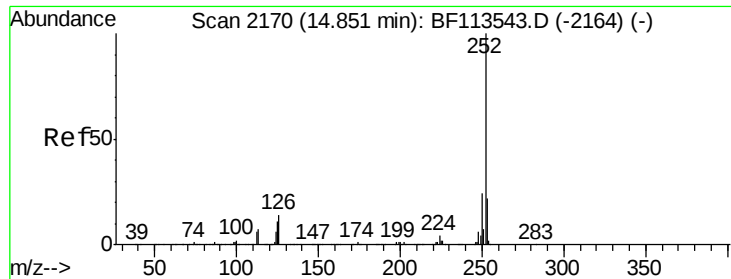
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.4	18.1	27.1
277	23.6	20.2	30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.26 min Scan# 2239
 Delta R.T. 0.01 min
 Lab File: BF113571.D
 Acq: 4 Apr 2019 4:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.1	28.7
265	21.6	17.1	25.7

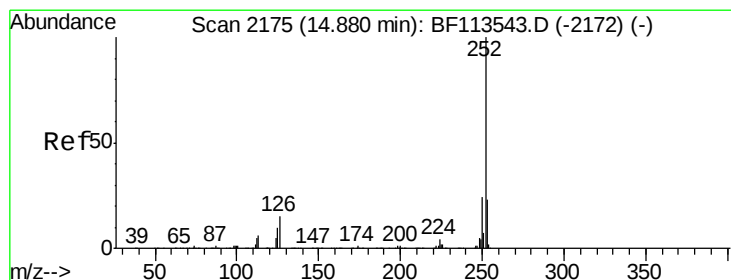
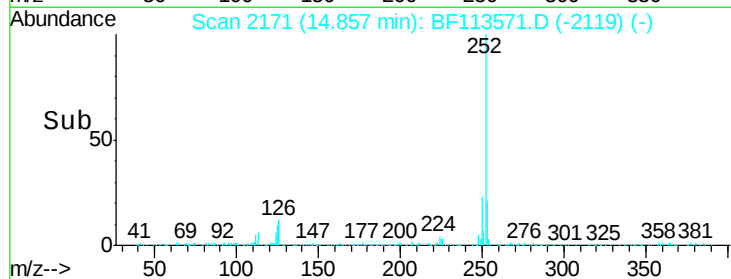
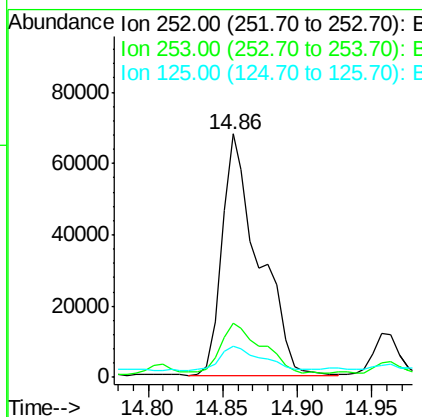
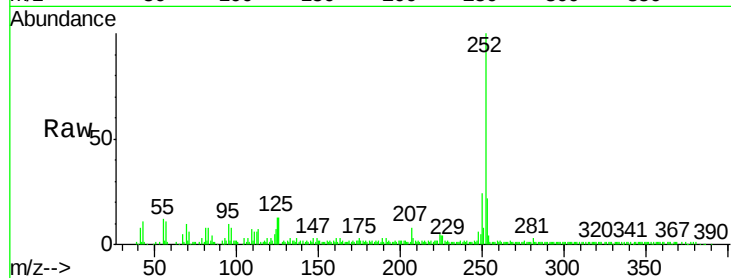




#88
Benzo(b)fluoranthene
Concen: 8.955 ng
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

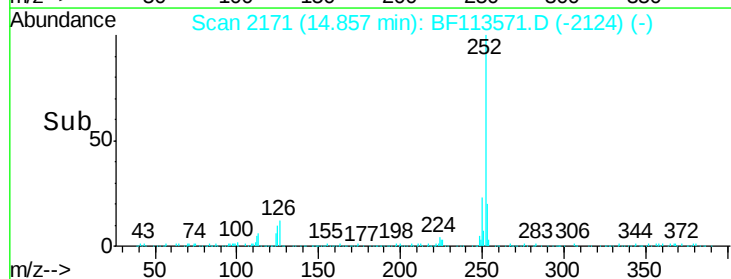
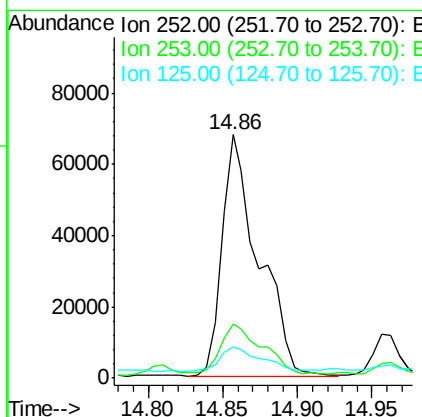
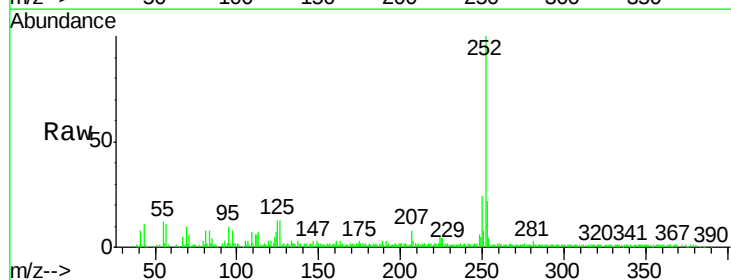
Instrument :
BNA_F
ClientSampleId :

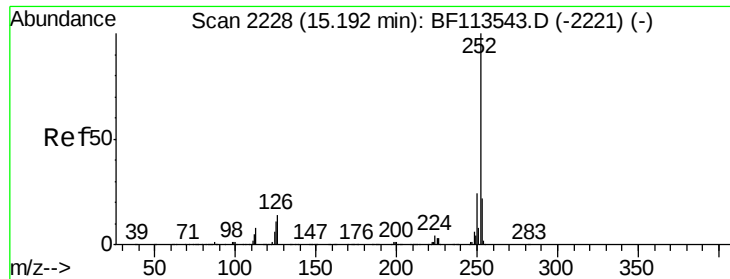
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	12.8	7.6	11.4



#89
Benzo(k)fluoranthene
Concen: 9.978 ng
RT: 14.86 min Scan# 2171
Delta R.T. -0.02 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	12.8	7.3	10.9

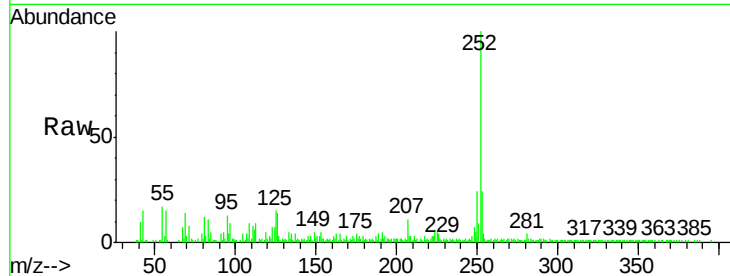




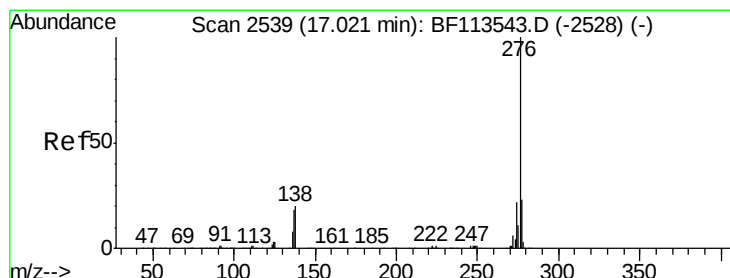
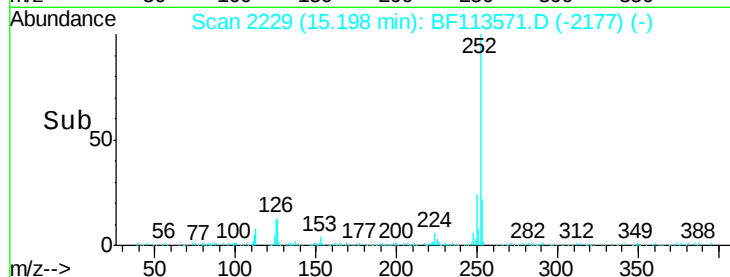
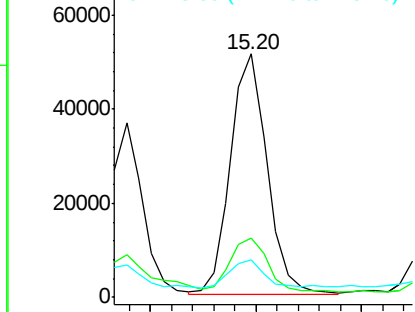
#90
Benzo(a)pyrene
Concen: 5.310 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 61099
Ion Ratio Lower Upper
252 100
253 24.2 17.9 26.9
125 15.3 8.8 13.2#

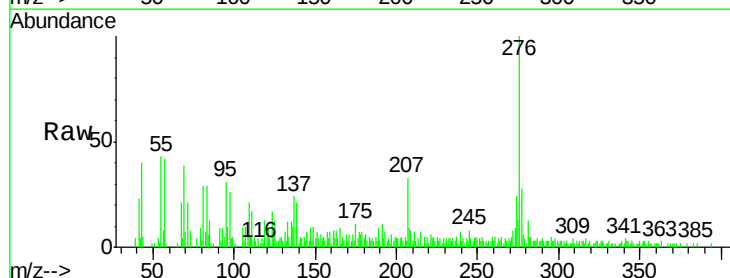


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.275 ng
RT: 17.03 min Scan# 2541
Delta R.T. 0.01 min
Lab File: BF113571.D
Acq: 4 Apr 2019 4:47

Tgt Ion:276 Resp: 35970
Ion Ratio Lower Upper
276 100
277 28.3 18.8 28.2#
138 20.6 15.6 23.4



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

