

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040319\
 Data File : BF113551.D
 Acq On : 3 Apr 2019 18:48
 Operator : JU/SJ
 Sample : K2184-01 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 04:26:26 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	6.68	152	130785	20.00	ng	0.00
21) Naphthalene-d8	7.96	136	467621	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	197510	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	365636	20.00	ng	0.00
76) Chrysene-d12	13.84	240	323855	20.00	ng	0.00
87) Perylene-d12	15.26	264	239125	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.30	112	186889	24.37	ng	0.00
7) Phenol-d6	6.33	99	365363	38.65	ng	-0.01
23) Nitrobenzene-d5	7.25	82	210005	26.31	ng	-0.01
42) 2,4,6-Tribromophenol	10.51	330	25000	10.54	ng	0.00
45) 2-Fluorobiphenyl	9.04	172	408395	33.29	ng	-0.01
79) Terphenyl-d14	12.79	244	410060	25.78	ng	0.00

Target Compounds

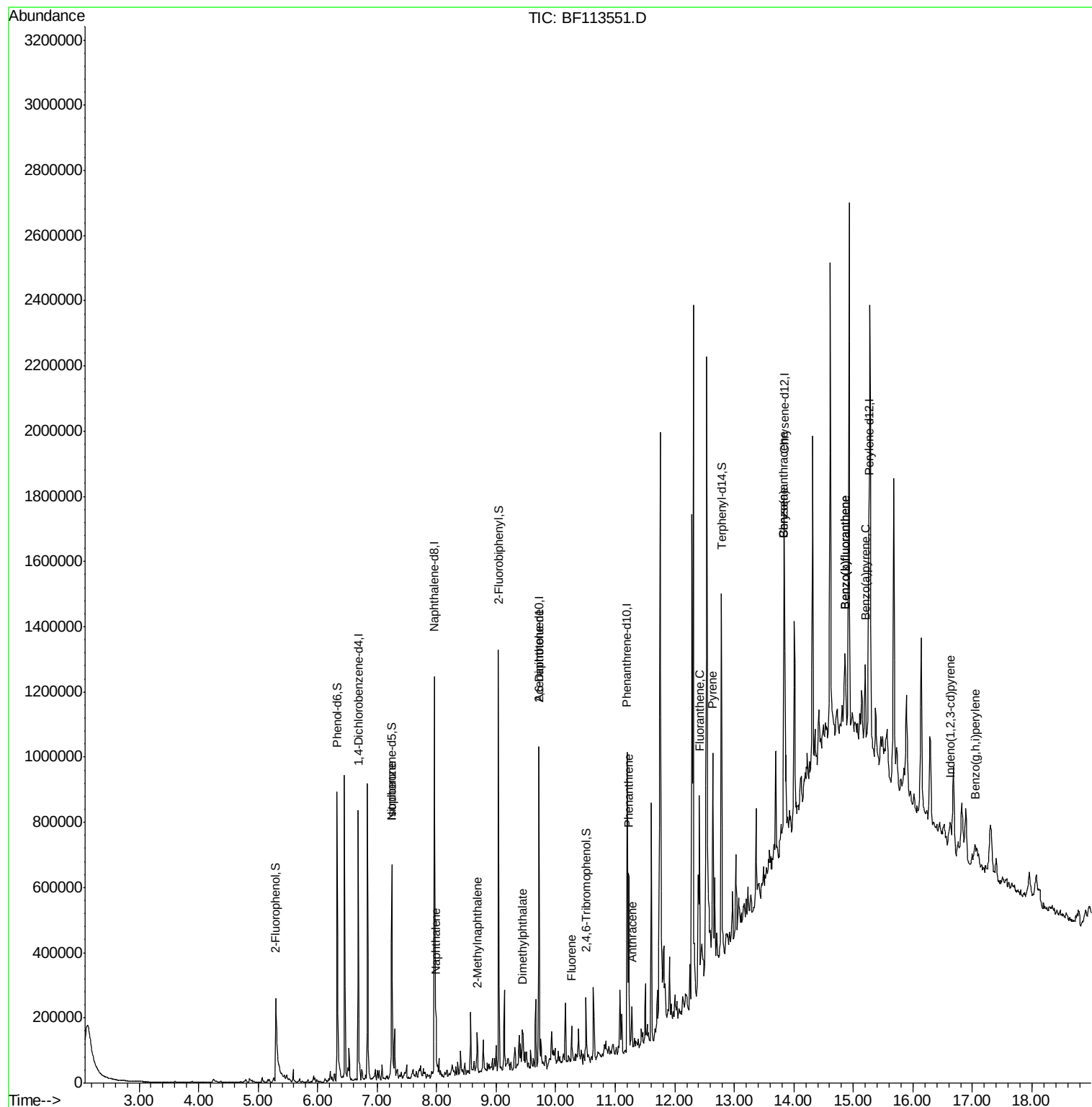
						Qvalue
25) Isophorone	7.25	82	207041	13.463	ng	# 64
31) Naphthalene	7.99	128	66018	2.914	ng	99
37) 2-Methylnaphthalene	8.68	142	35406	2.376	ng	98
50) Dimethylphthalate	9.44	163	32445	2.228	ng	99
51) 2,6-Dinitrotoluene	9.72	165	27150	8.460	ng	# 27
58) Fluorene	10.27	166	32949	2.472	ng	# 98
71) Phenanthrene	11.23	178	225679	12.421	ng	98
72) Anthracene	11.28	178	52714	2.852	ng	98
75) Fluoranthene	12.42	202	278673	14.314	ng	98
78) Pyrene	12.64	202	258015	10.471	ng	98
81) Benzo(a)anthracene	13.83	228	117146	6.271	ng	95
83) Chrysene	13.83	228	117146	6.186	ng	95
86) Indeno(1,2,3-cd)pyrene	16.63	276	39277	2.246	ng	98
88) Benzo(b)fluoranthene	14.86	252	136169	9.303	ng	# 83
89) Benzo(k)fluoranthene	14.86	252	136169	10.366	ng	# 82
90) Benzo(a)pyrene	15.20	252	71766	5.518	ng	# 83
92) Benzo(a,h,i)perylene	17.04	276	42626	3.433	ng	# 85

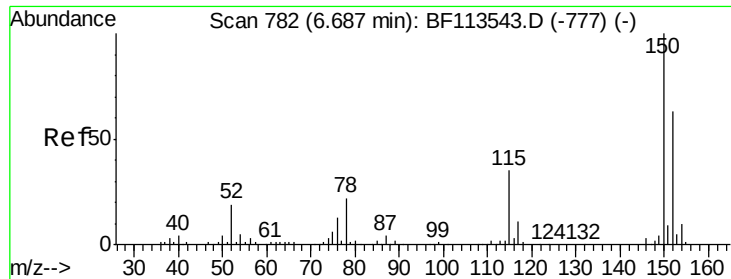
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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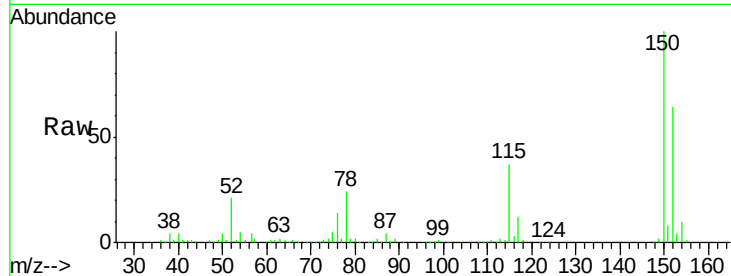


#1

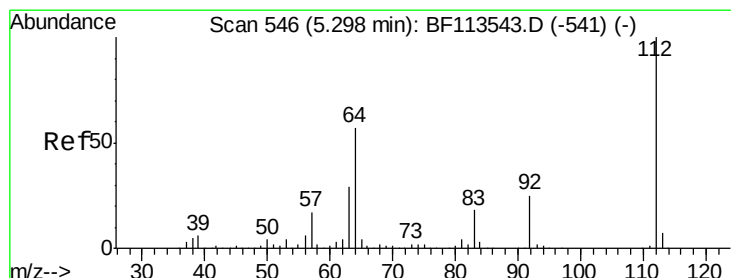
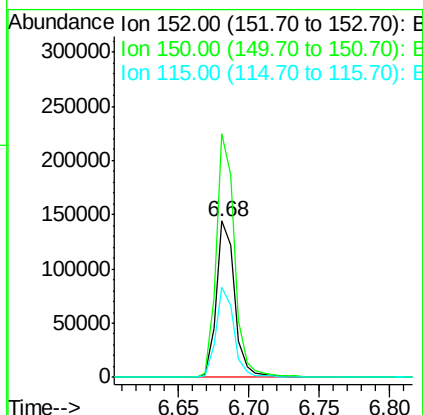
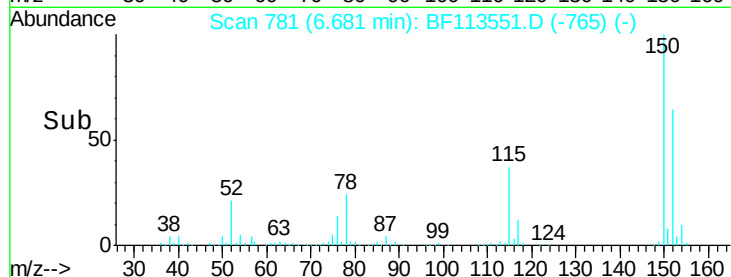
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.68 min Scan# 781
Delta R.T. -0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 130785
Ion Ratio Lower Upper
152 100
150 155.5 124.7 187.1
115 57.6 46.0 69.0



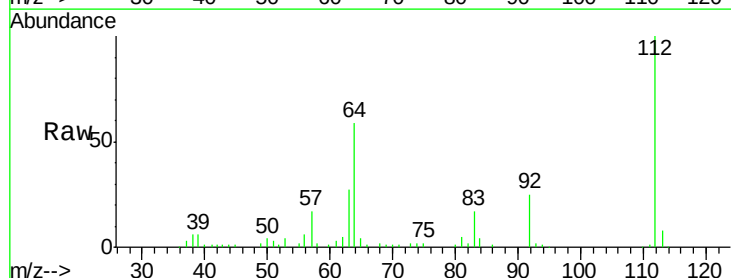
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



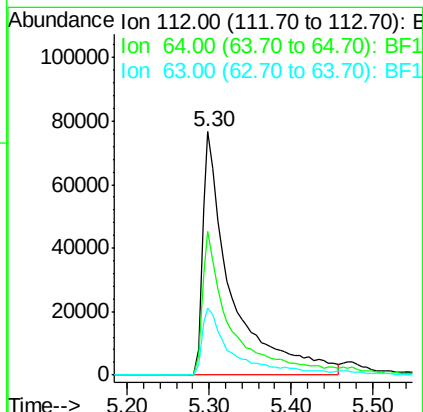
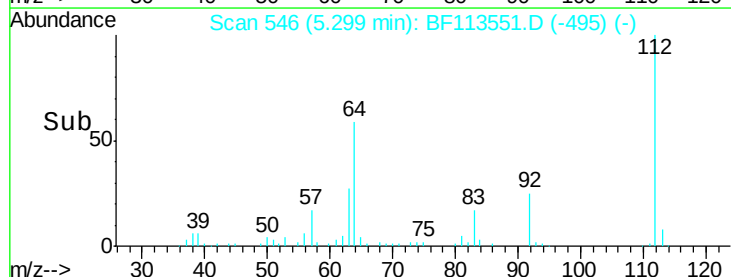
#5

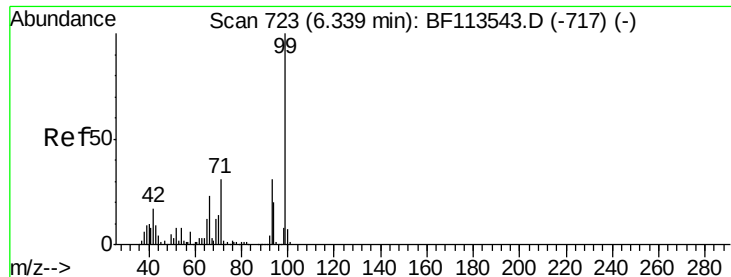
2-Fluorophenol
Concen: 24.367 ng
RT: 5.30 min Scan# 546
Delta R.T. 0.00 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Tgt Ion:112 Resp: 186889
Ion Ratio Lower Upper
112 100
64 59.0 49.2 73.8
63 27.4 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: 38.651 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

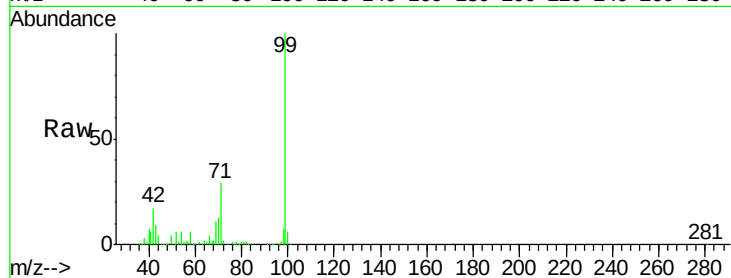
Tot Ion: 99 Resp: 365363

Ion Ratio Lower Upper

99 100

42 16.8 14.8 22.2

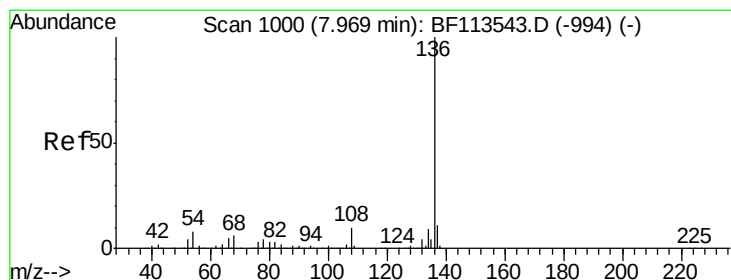
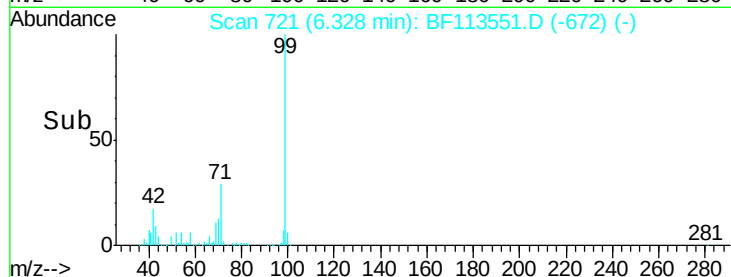
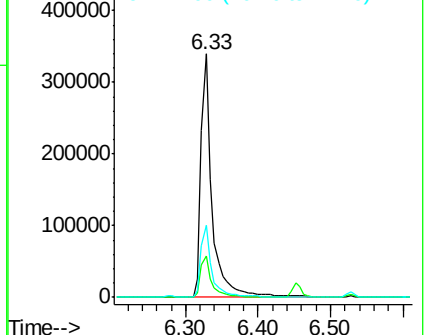
71 29.4 24.9 37.3



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.96 min Scan# 999

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Tgt Ion: 136 Resp: 467621

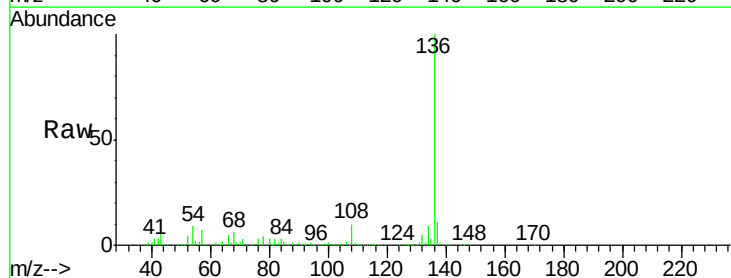
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.6 7.0 10.6

68 6.3 4.8 7.2

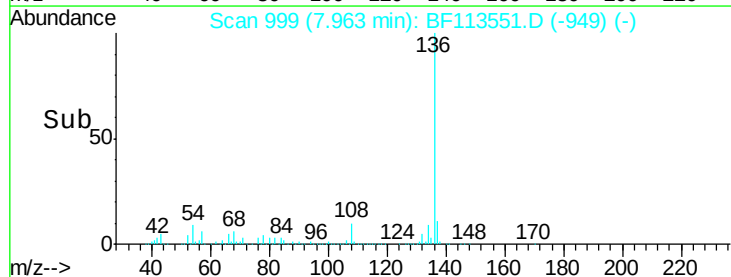
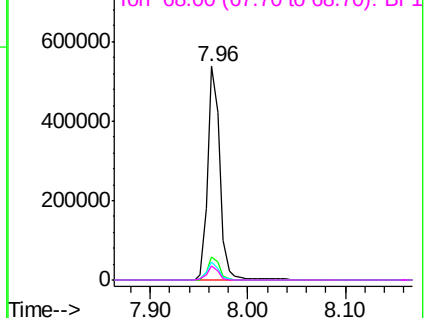


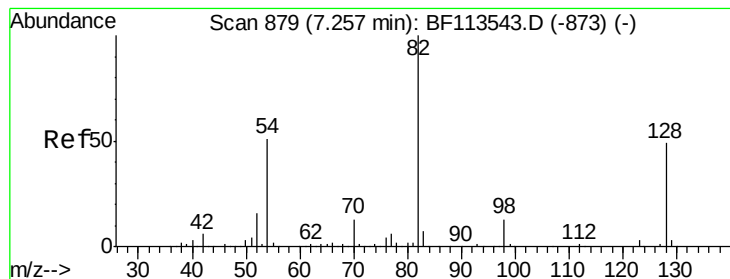
Abundance Ion 136.00 (135.70 to 136.70): E

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: 26.306 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampled :

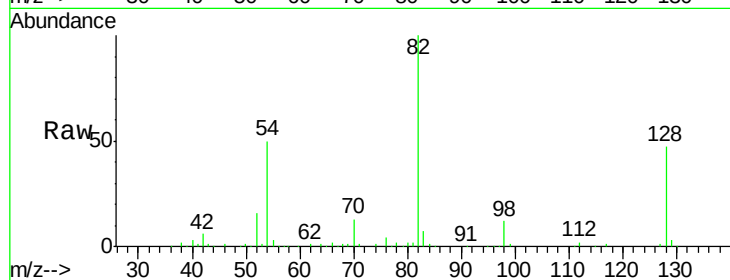
Tot Ion: 82 Resp: 210005

Ion Ratio Lower Upper

82 100

128 47.3 36.5 54.7

54 50.3 42.2 63.2

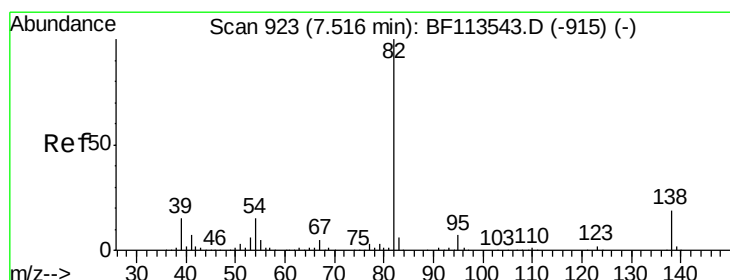
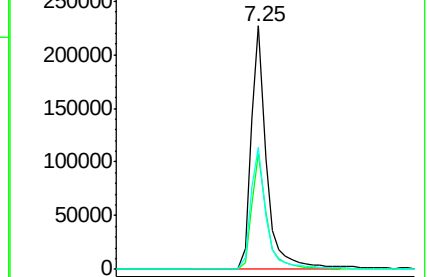
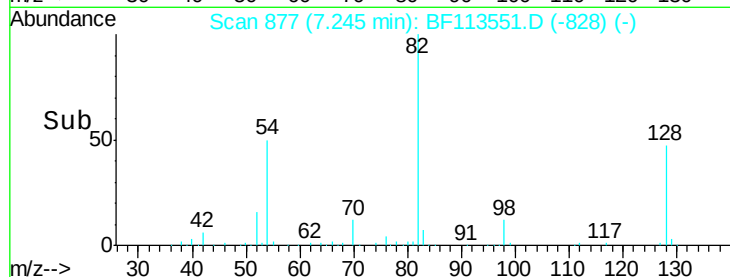


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Time-->



#25

Isophorone

Concen: 13.463 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.27 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

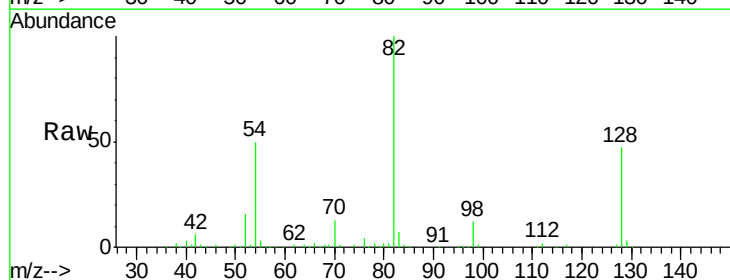
Tgt Ion: 82 Resp: 207041

Ion Ratio Lower Upper

82 100

95 0.3 5.5 8.3#

138 0.0 15.2 22.8#

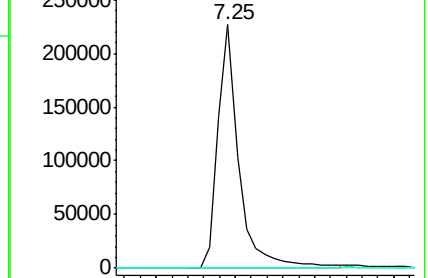
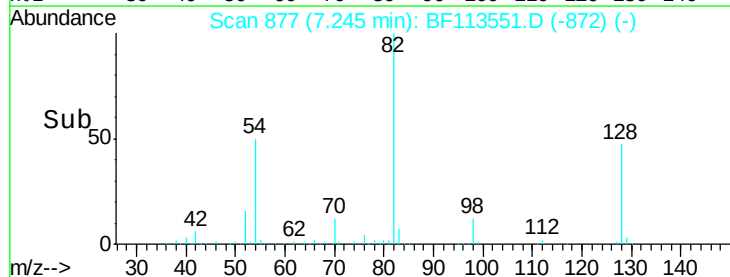


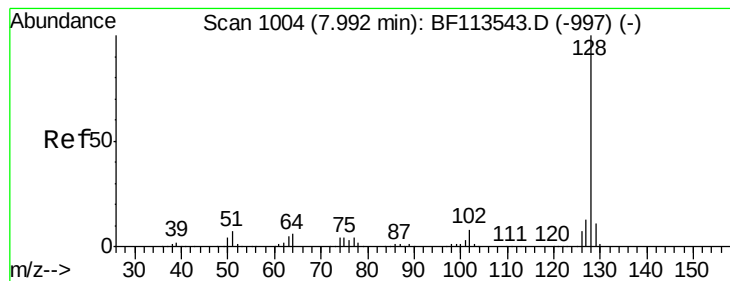
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

Time-->





#31

Naphthalene

Concen: 2.914 ng

RT: 7.99 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampled :

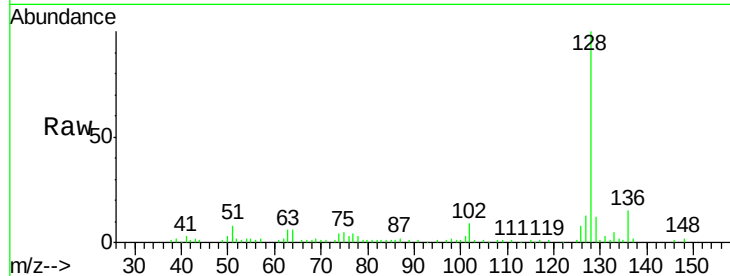
Tot Ion:128 Resp: 66018

Ion Ratio Lower Upper

128 100

129 11.7 9.3 13.9

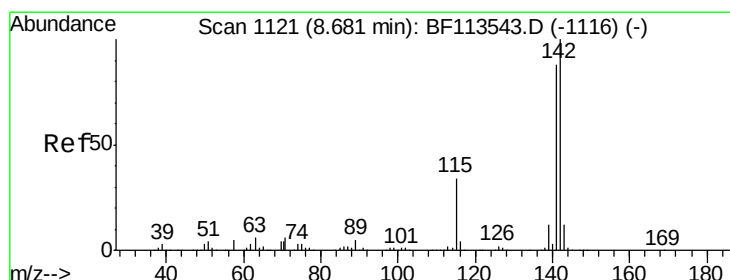
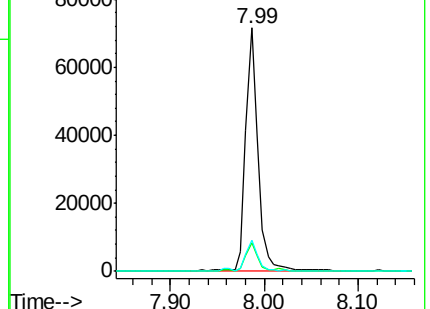
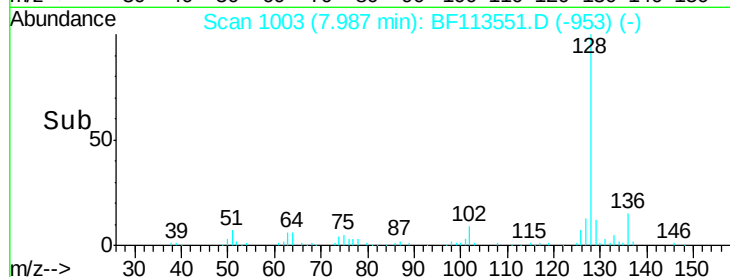
127 12.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 2.376 ng

RT: 8.68 min Scan# 1121

Delta R.T. 0.00 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

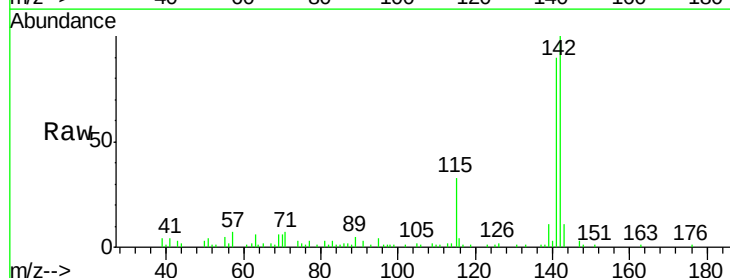
Tgt Ion:142 Resp: 35406

Ion Ratio Lower Upper

142 100

141 90.5 71.0 106.6

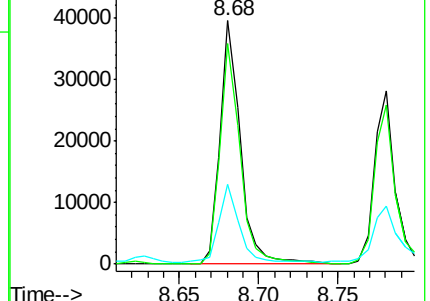
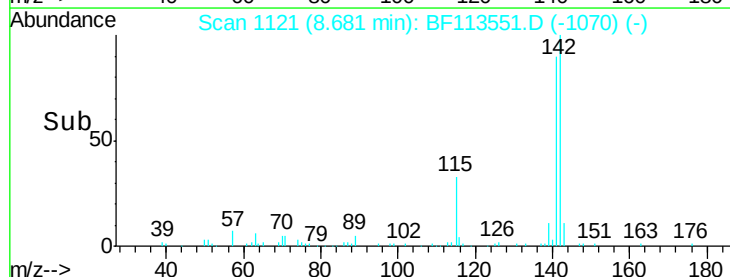
115 32.7 26.6 39.8

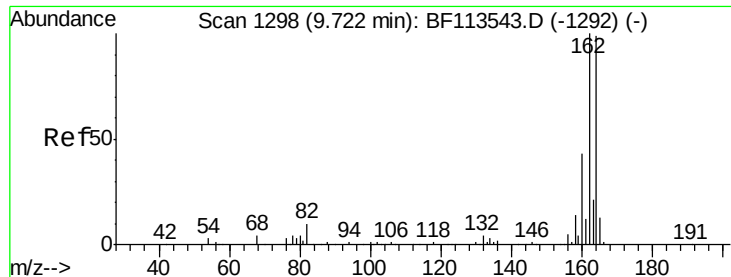


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

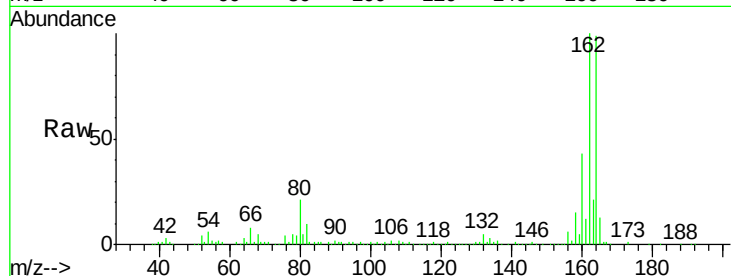
Tot Ion:164 Resp: 197510

Ion Ratio Lower Upper

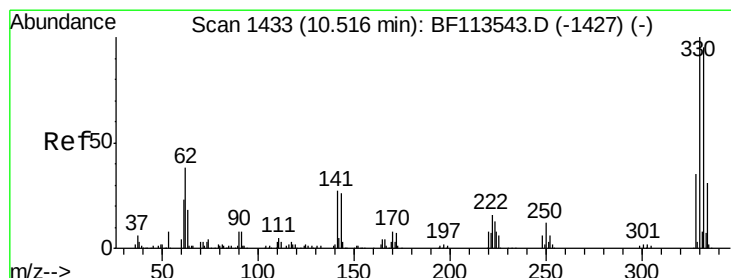
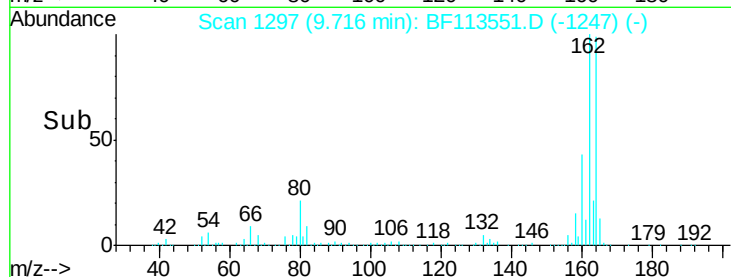
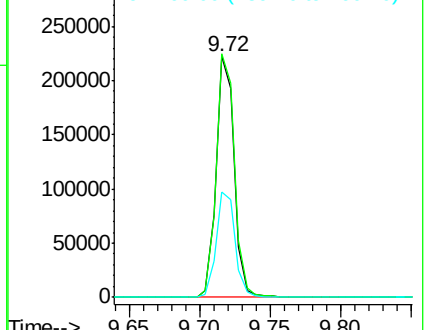
164 100

162 101.0 81.8 122.6

160 43.7 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: 10.537 ng

RT: 10.51 min Scan# 1432

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

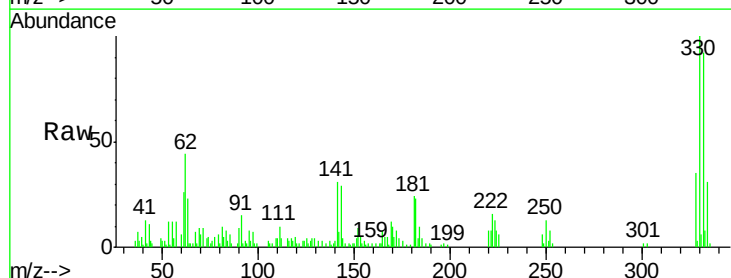
Tgt Ion:330 Resp: 25000

Ion Ratio Lower Upper

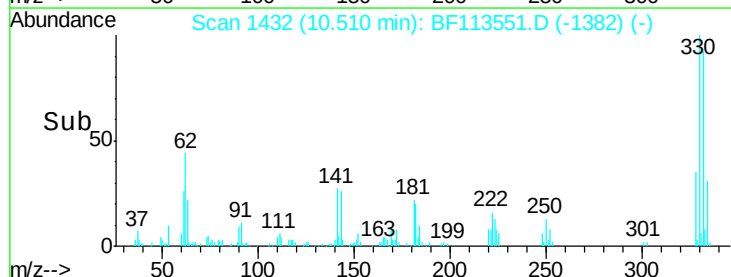
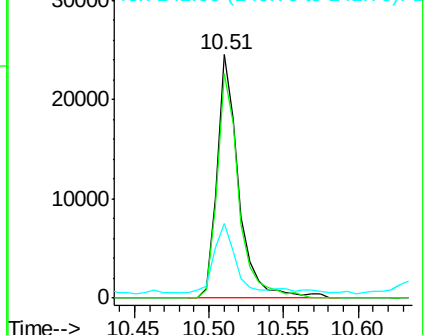
330 100

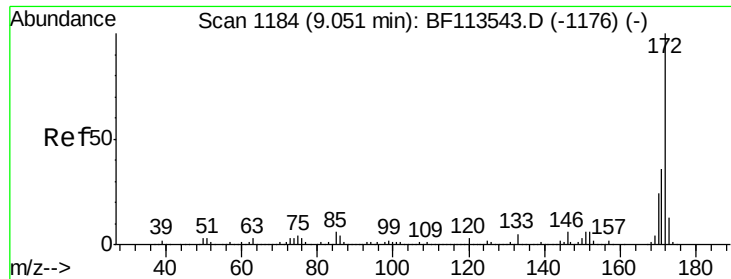
332 93.0 77.8 116.6

141 27.6 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

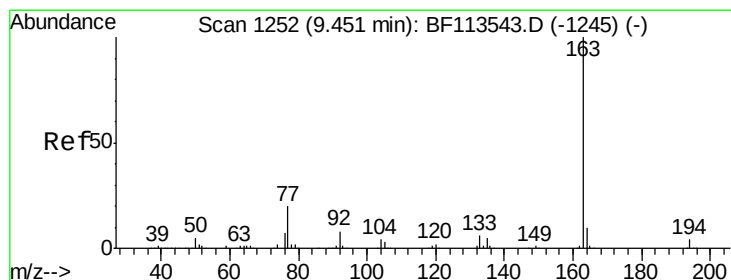
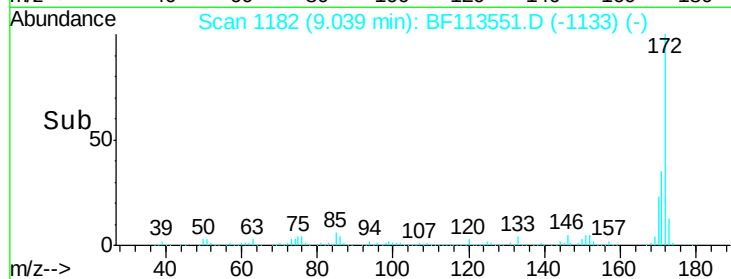
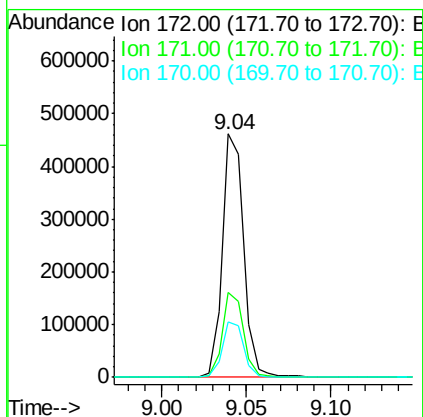
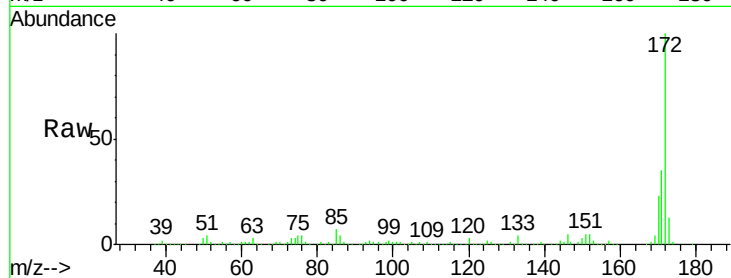




#45
2-Fluorobiphenyl
Concen: 33.288 ng
RT: 9.04 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

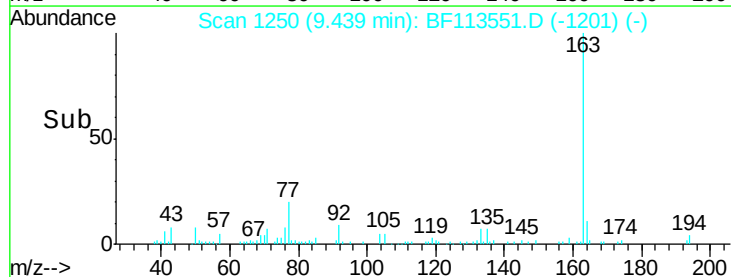
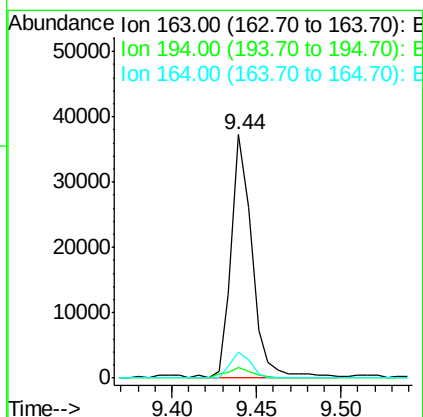
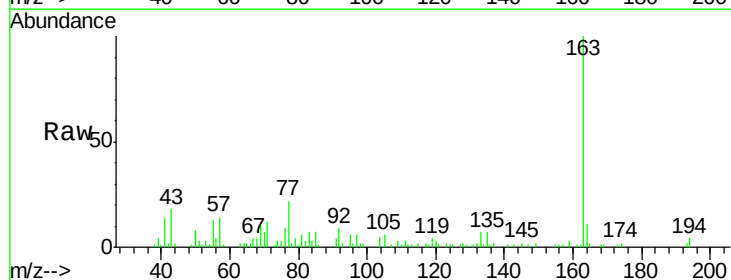
Instrument :
BNA_F
ClientSampleId :

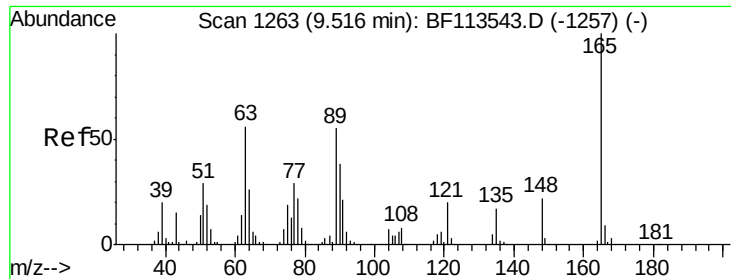
Tot Ion:172 Resp: 408395
Ion Ratio Lower Upper
172 100
171 34.7 29.0 43.6
170 22.9 19.5 29.3



#50
Dimethylphthalate
Concen: 2.228 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Tgt Ion:163 Resp: 32445
Ion Ratio Lower Upper
163 100
194 4.2 3.0 4.6
164 10.6 8.1 12.1





#51

2,6-Dinitrotoluene

Concen: 8.460 ng

RT: 9.72 min Scan# 1297

Delta R.T. 0.20 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

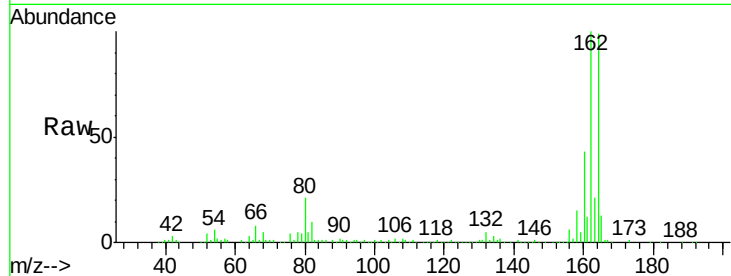
Tot Ion:165 Resp: 27150

Ion Ratio Lower Upper

165 100

63 1.7 43.4 65.0#

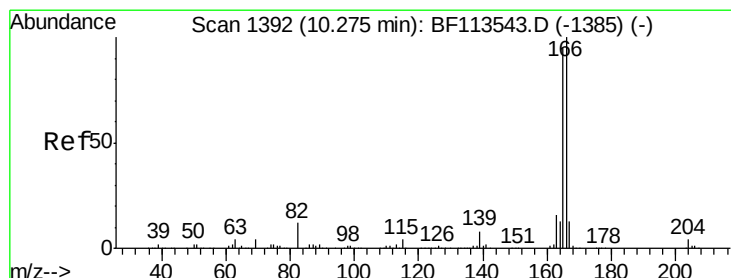
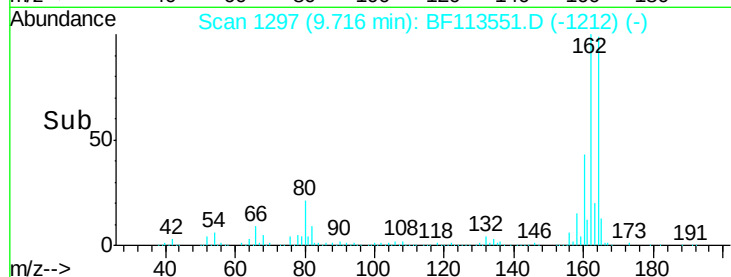
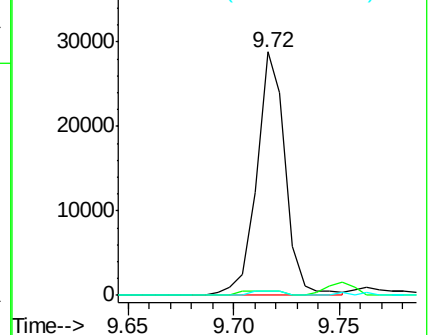
89 1.7 43.1 64.7#



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



#58

Fluorene

Concen: 2.472 ng

RT: 10.27 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

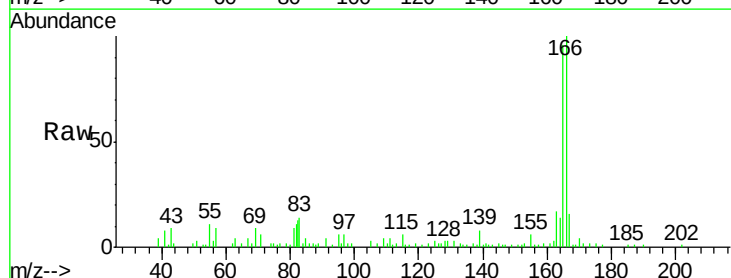
Tgt Ion:166 Resp: 32949

Ion Ratio Lower Upper

166 100

165 96.3 76.2 114.2

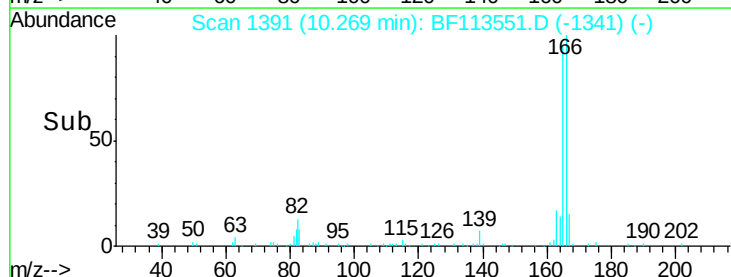
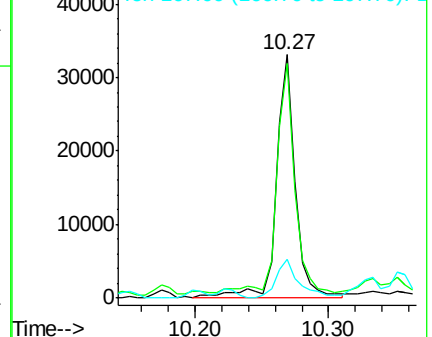
167 16.1 10.7 16.1#

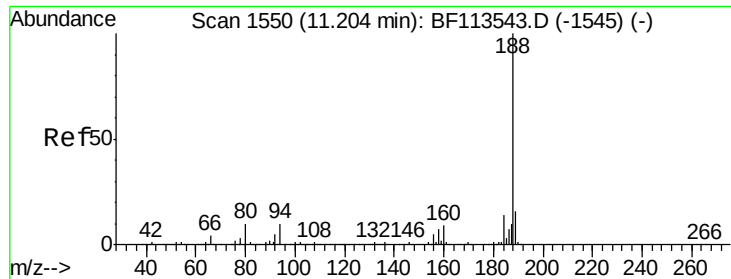


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

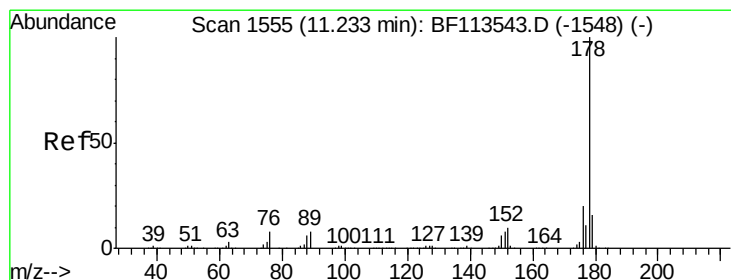
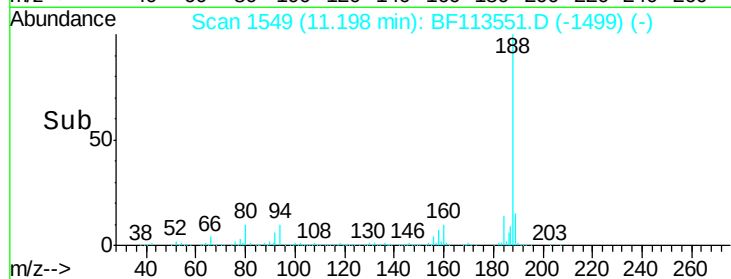
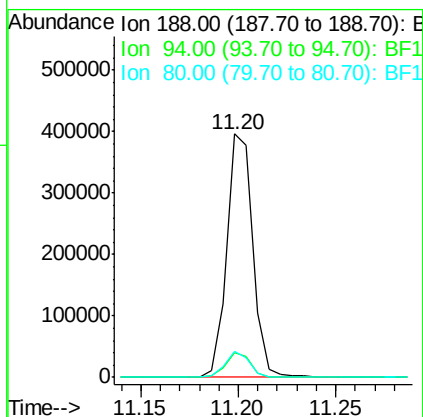
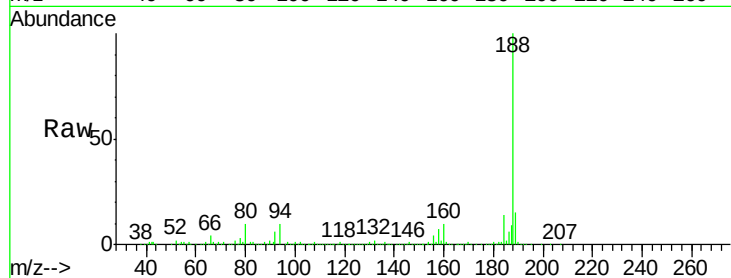




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. -0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

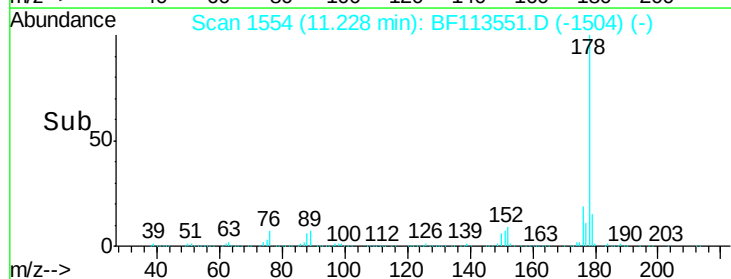
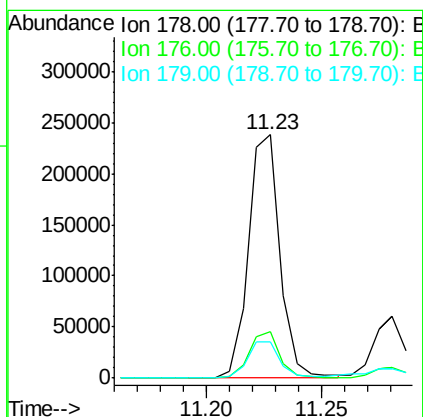
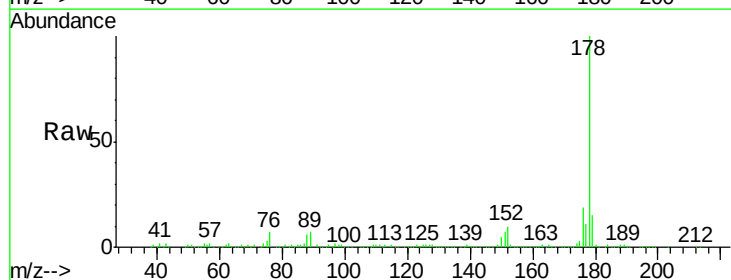
Instrument :
BNA_F
ClientSampled :

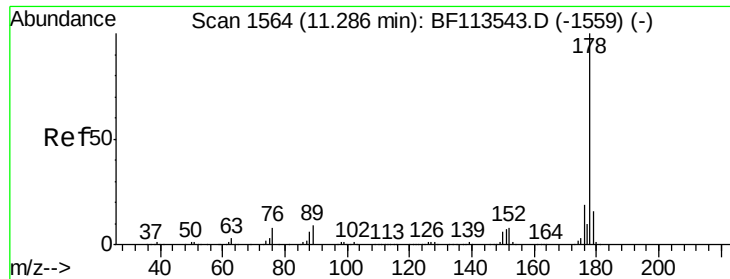
Tot Ion:188 Resp: 365636
Ion Ratio Lower Upper
188 100
94 10.0 7.0 10.6
80 10.5 7.7 11.5



#71
Phenanthrene
Concen: 12.421 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Tgt Ion:178 Resp: 225679
Ion Ratio Lower Upper
178 100
176 18.9 16.2 24.2
179 15.1 12.7 19.1





#72

Anthracene

Concen: 2.852 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

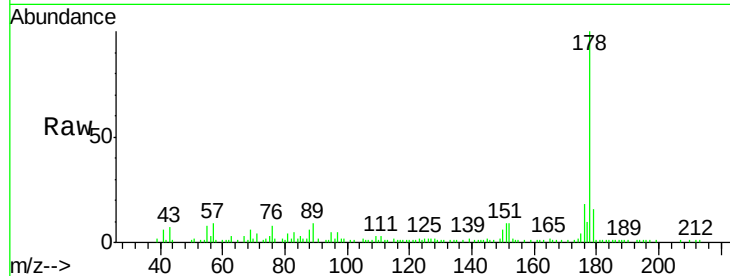
Tot Ion:178 Resp: 52714

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

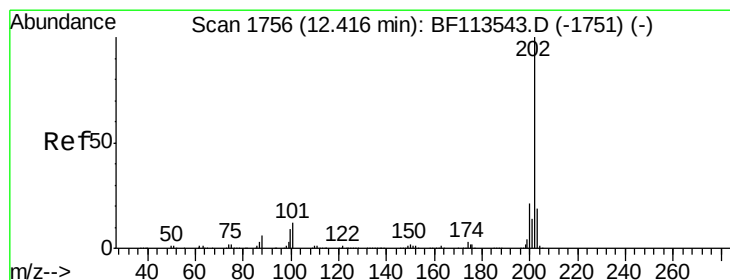
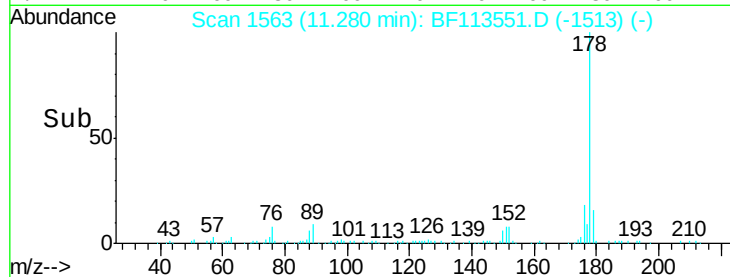
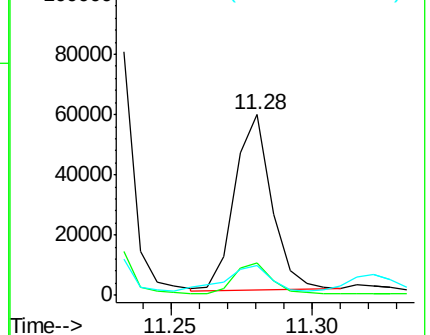
179 16.3 12.8 19.2



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: 14.314 ng

RT: 12.42 min Scan# 1756

Delta R.T. 0.00 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

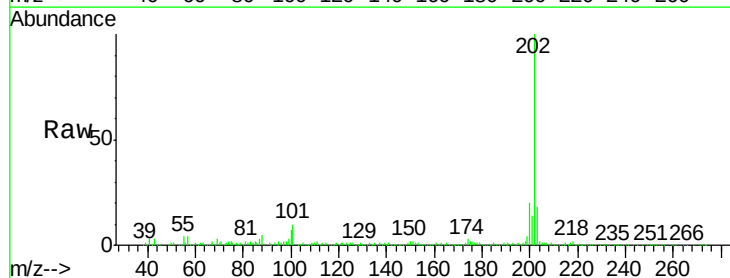
Tgt Ion:202 Resp: 278673

Ion Ratio Lower Upper

202 100

101 9.7 0.0 31.4

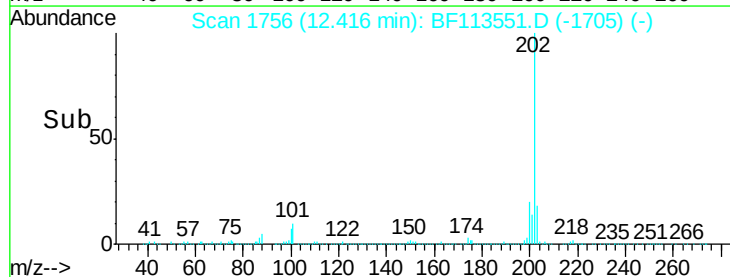
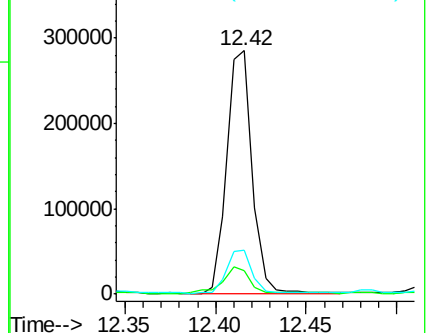
203 17.9 0.0 38.0

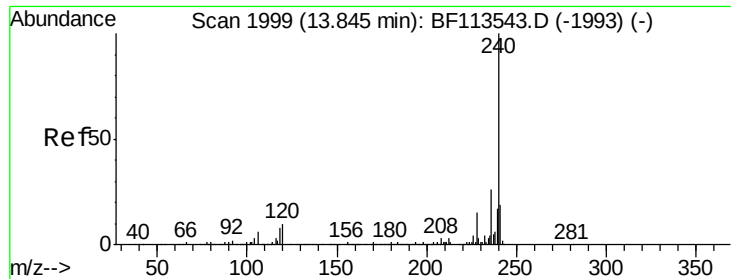


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

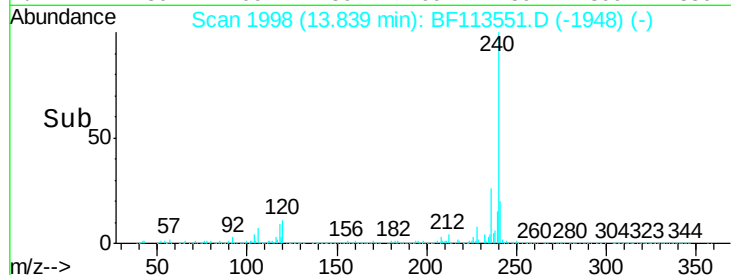
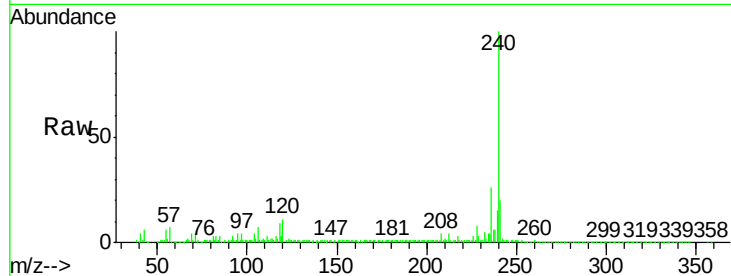
Tot Ion:240 Resp: 323855

Ion Ratio Lower Upper

240 100

120 11.0 8.8 13.2

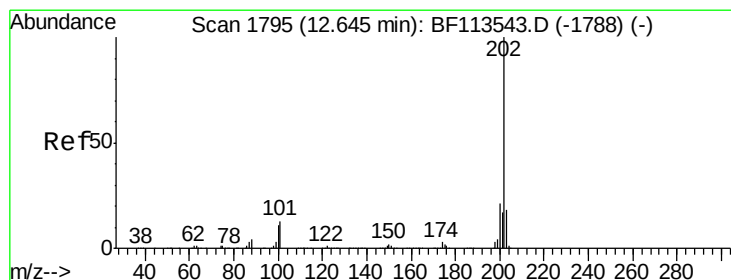
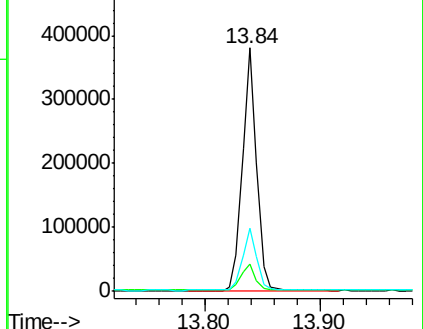
236 25.9 20.9 31.3



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: 10.471 ng

RT: 12.64 min Scan# 1794

Delta R.T. -0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

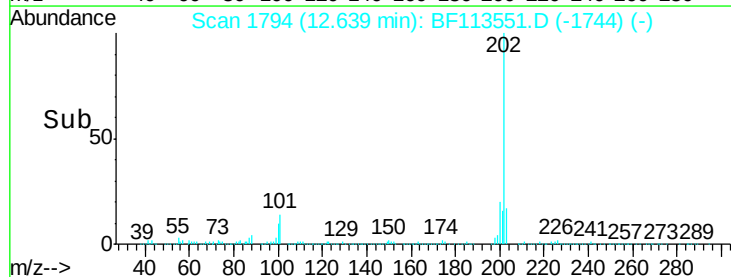
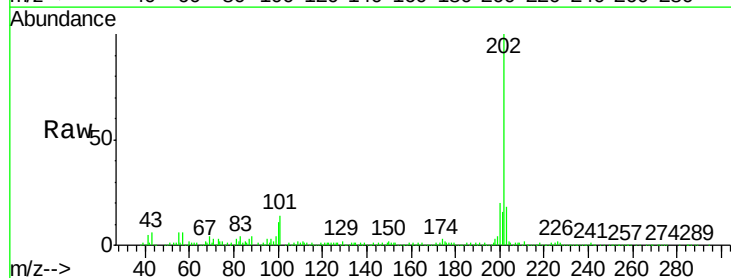
Tgt Ion:202 Resp: 258015

Ion Ratio Lower Upper

202 100

200 19.7 16.8 25.2

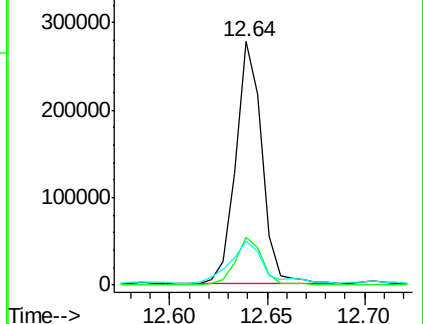
203 18.2 14.4 21.6

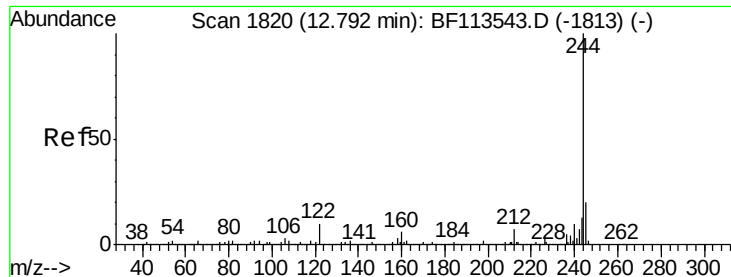


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

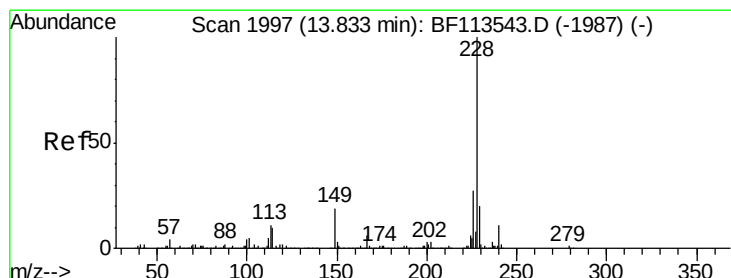
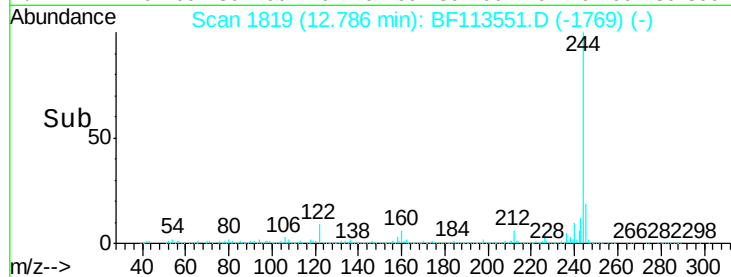
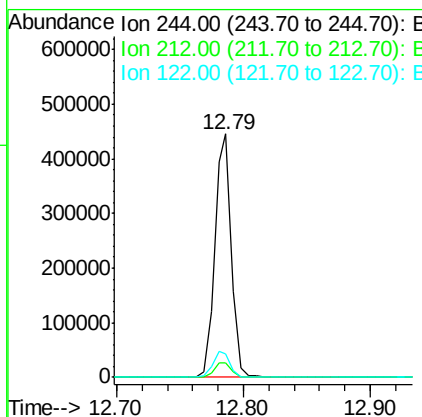
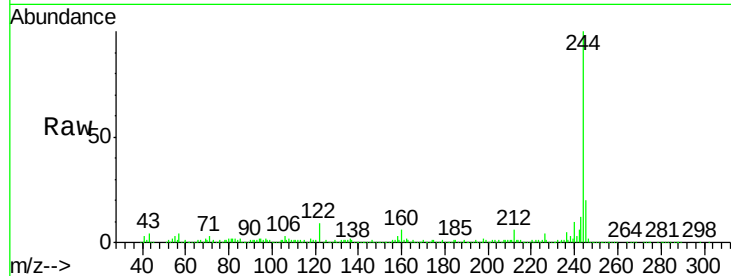




#79
 Terphenyl-d14
 Concen: 25.780 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. -0.01 min
 Lab File: BF113551.D
 Acq: 3 Apr 2019 18:48

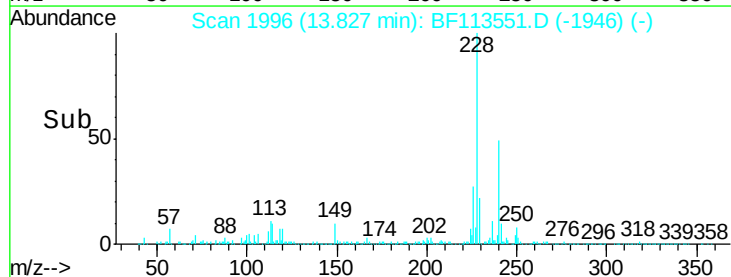
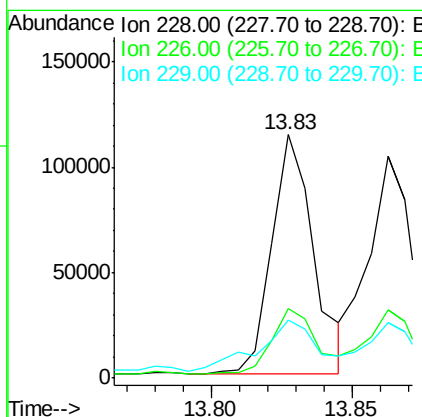
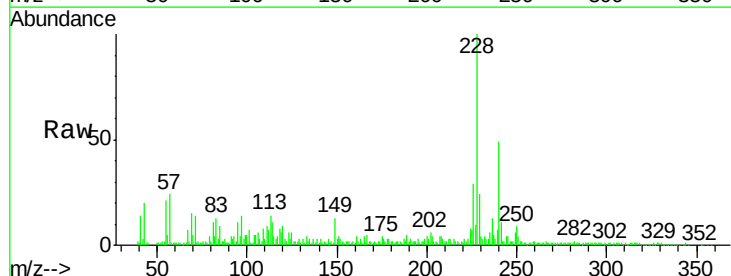
Instrument :
 BNA_F
 ClientSampled :

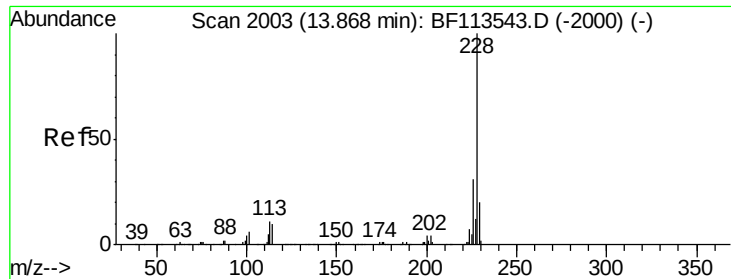
Tot Ion:244 Resp: 410060
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.5 8.3
 122 9.5 8.6 13.0



#81
 Benzo(a)anthracene
 Concen: 6.271 ng
 RT: 13.83 min Scan# 1996
 Delta R.T. -0.01 min
 Lab File: BF113551.D
 Acq: 3 Apr 2019 18:48

Tgt Ion:228 Resp: 117146
 Ion Ratio Lower Upper
 228 100
 226 28.8 21.8 32.8
 229 23.6 16.2 24.4

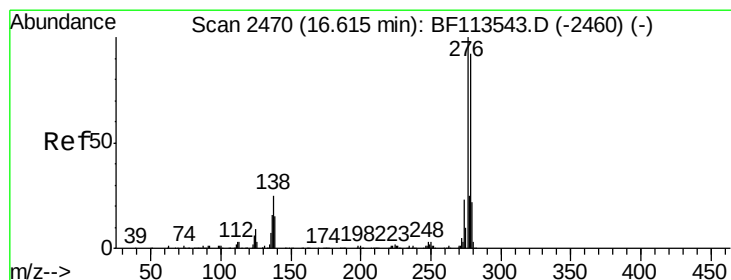
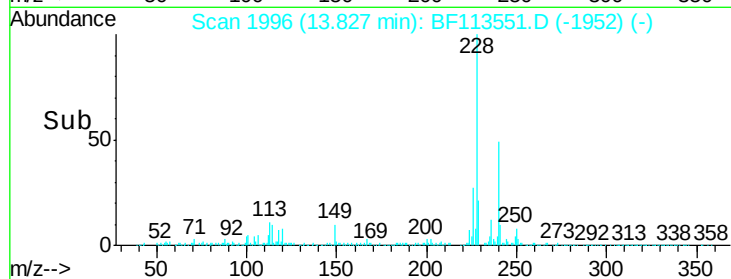
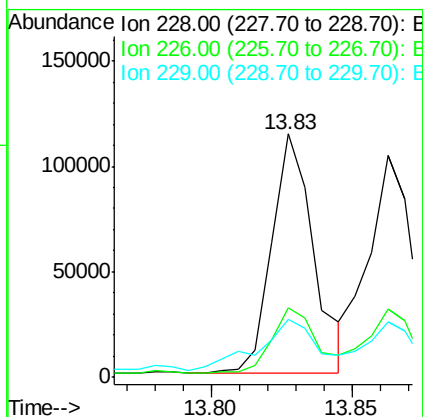
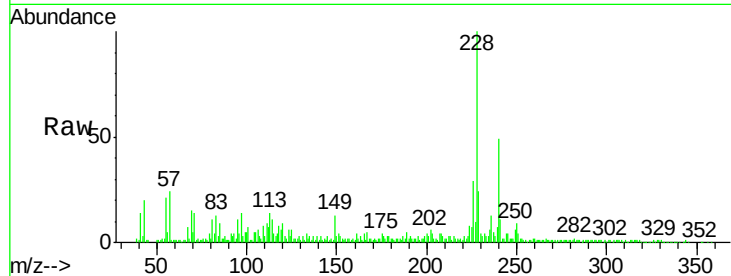




#83
Chrysene
Concen: 6.186 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.04 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

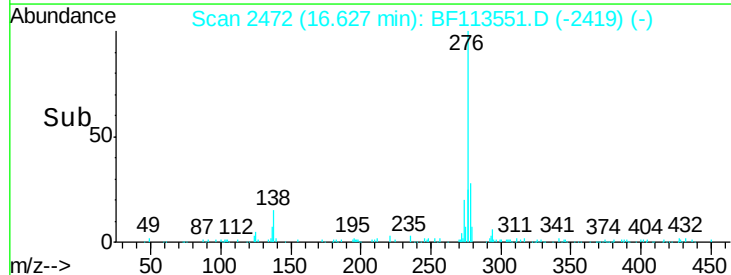
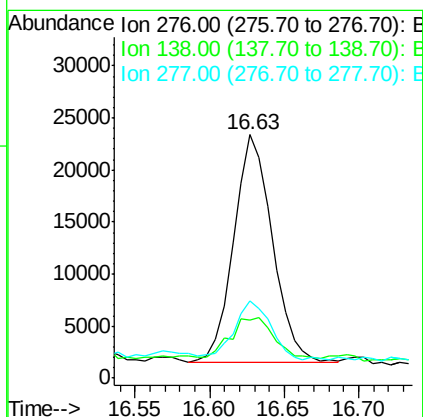
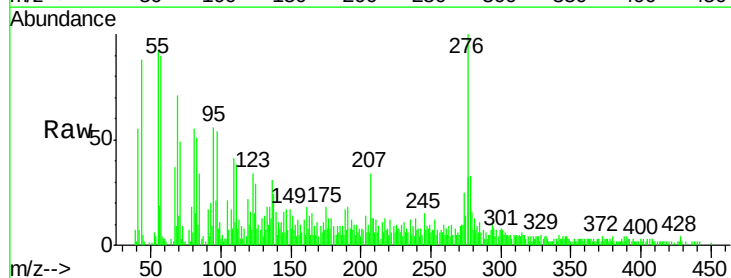
Instrument :
BNA_F
ClientSampleId :

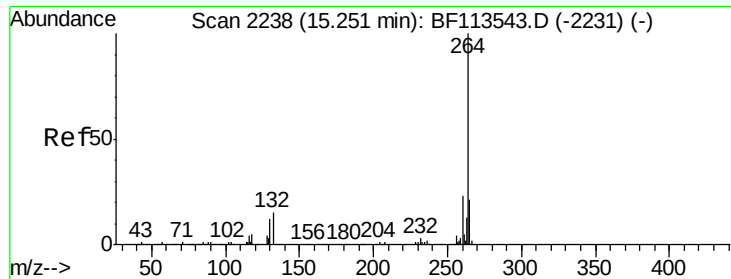
Tot Ion:228 Resp: 117146
Ion Ratio Lower Upper
228 100
226 28.8 24.3 36.5
229 23.6 16.3 24.5



#86
Indeno(1,2,3-cd)pyrene
Concen: 2.246 ng
RT: 16.63 min Scan# 2472
Delta R.T. 0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Tgt Ion:276 Resp: 39277
Ion Ratio Lower Upper
276 100
138 21.6 18.1 27.1
277 25.9 20.2 30.4





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.26 min Scan# 2239

Delta R.T. 0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

Instrument :

BNA_F

ClientSampleId :

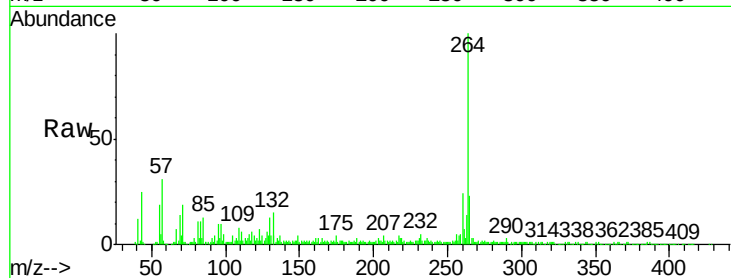
Tot Ion:264 Resp: 239125

Ion Ratio Lower Upper

264 100

260 24.4 19.1 28.7

265 22.9 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

250000

200000

150000

100000

50000

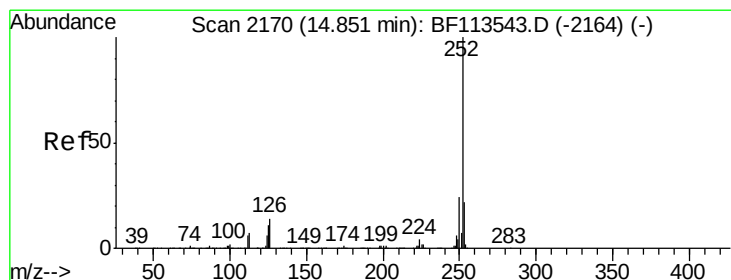
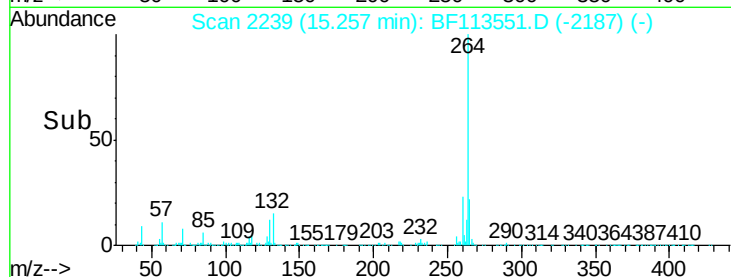
0

15.26

15.20

15.30

Time-->



#88

Benzo(b)fluoranthene

Concen: 9.303 ng

RT: 14.86 min Scan# 2171

Delta R.T. 0.01 min

Lab File: BF113551.D

Acq: 3 Apr 2019 18:48

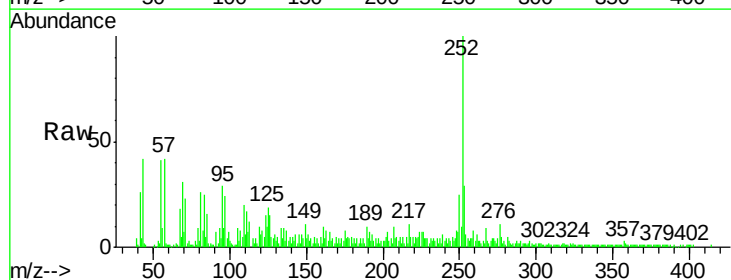
Tgt Ion:252 Resp: 136169

Ion Ratio Lower Upper

252 100

253 28.8 18.0 27.0#

125 19.5 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

100000

80000

60000

40000

20000

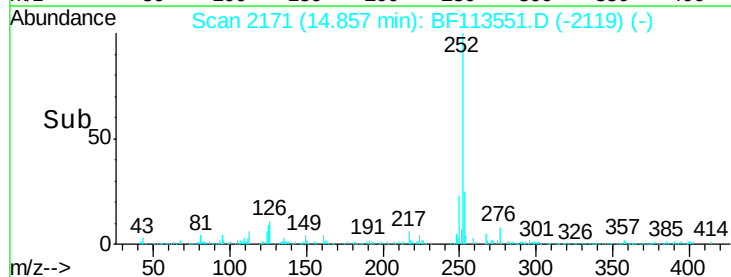
0

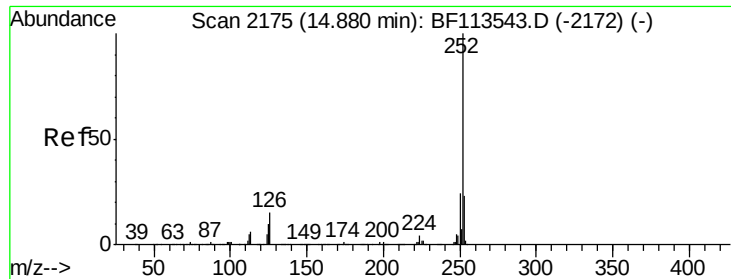
14.86

14.80

14.90

Time-->

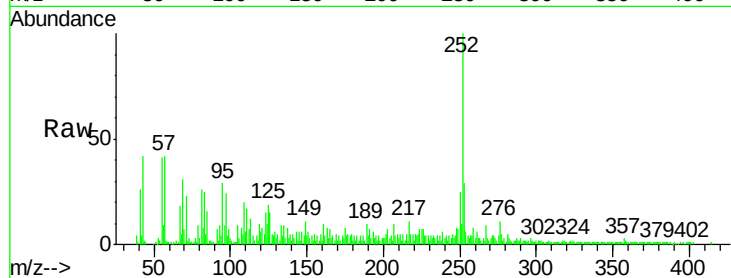




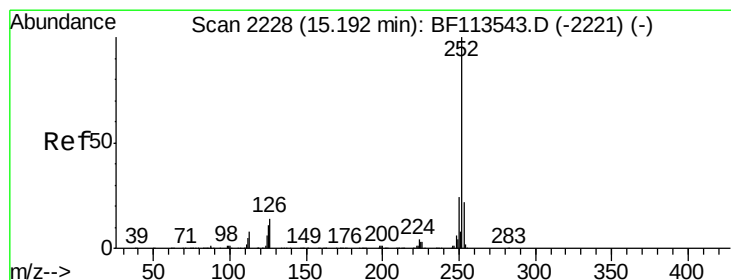
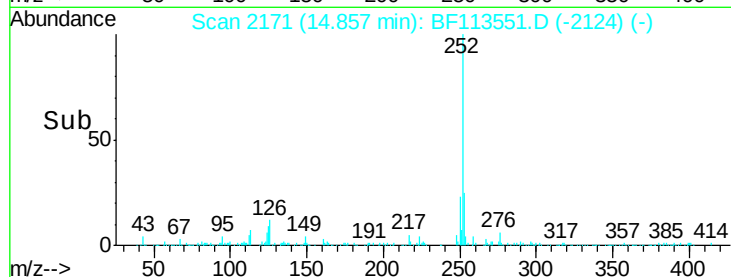
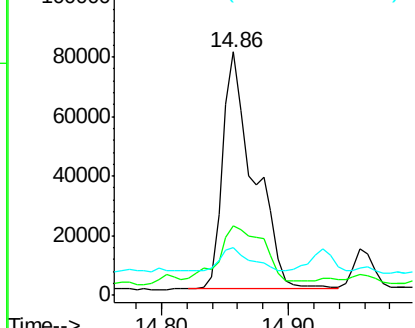
#89
Benzo(k)fluoranthene
Concen: 10.366 ng
RT: 14.86 min Scan# 2171
Delta R.T. -0.02 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 136169
Ion Ratio Lower Upper
252 100
253 28.8 17.7 26.5#
125 19.5 7.3 10.9#

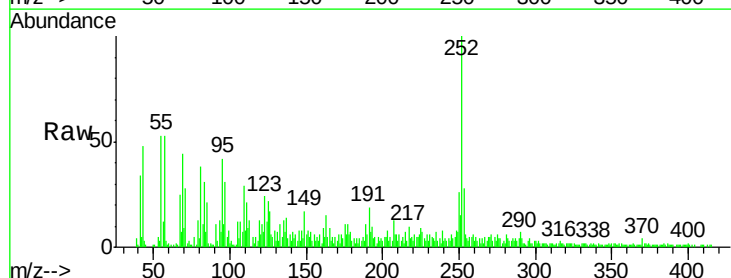


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

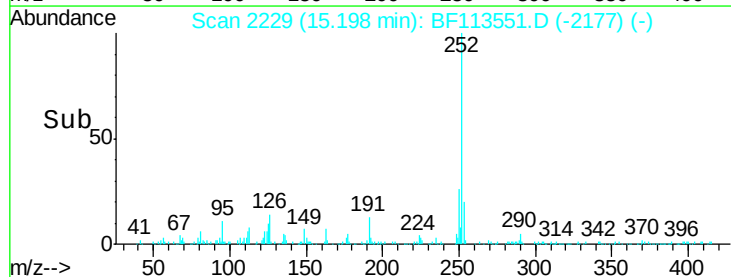
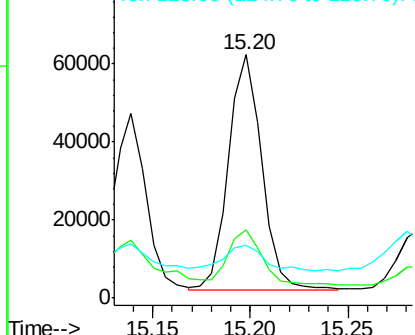


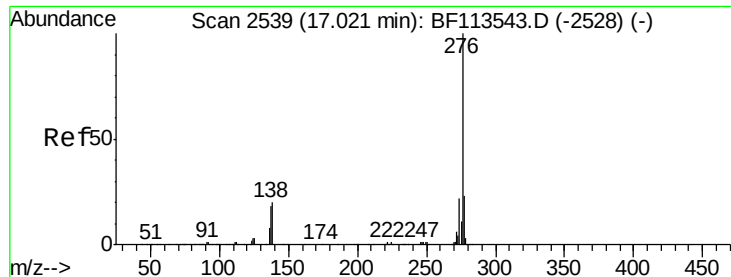
#90
Benzo(a)pyrene
Concen: 5.518 ng
RT: 15.20 min Scan# 2229
Delta R.T. 0.01 min
Lab File: BF113551.D
Acq: 3 Apr 2019 18:48

Tgt Ion:252 Resp: 71766
Ion Ratio Lower Upper
252 100
253 27.8 17.9 26.9#
125 21.8 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(a,h,i)perylene
 Concen: 3.433 ng
 RT: 17.04 min Scan# 2542
 Delta R.T. 0.02 min
 Lab File: BF113551.D
 Acq: 3 Apr 2019 18:48

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	31.1	18.8	28.2	
138	26.5	15.6	23.4	

