

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
 Data File : BF113706.D
 Acq On : 10 Apr 2019 19:54
 Operator : JU/SJ
 Sample : K2200-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 11 01:01:09 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	133204	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	482699	20.00	ng	-0.01
39) Acenaphthene-d10	9.70	164	199819	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	328754	20.00	ng	-0.02
76) Chrysene-d12	13.83	240	340187	20.00	ng	-0.02
87) Perylene-d12	15.23	264	260400	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	377578	48.34	ng	0.00
7) Phenol-d6	6.33	99	509516	52.92	ng	-0.01
23) Nitrobenzene-d5	7.25	82	266170	32.30	ng	-0.01
42) 2,4,6-Tribromophenol	10.50	330	99120	41.29	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	517309	41.68	ng	-0.02
79) Terphenyl-d14	12.77	244	460184	27.54	ng	-0.02

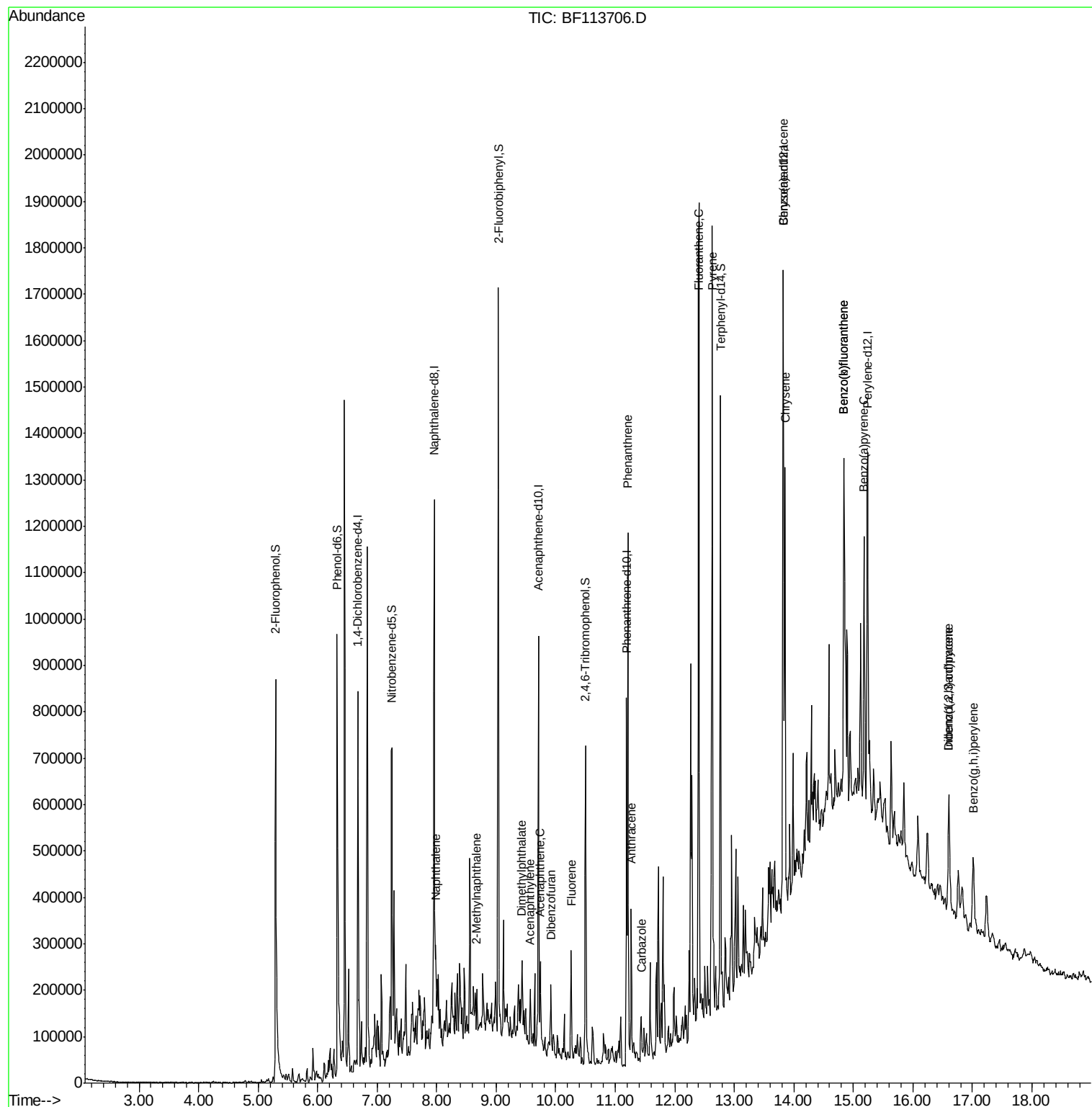
Target Compounds				Qvalue		
31) Naphthalene	7.98	128	61407	2.626	ng	97
37) 2-Methylnaphthalene	8.67	142	32365	2.104	ng	96
49) Acenaphthylene	9.57	152	50891	2.507	ng	97
50) Dimethylphthalate	9.43	163	44441	3.017	ng	# 99
52) Acenaphthene	9.74	154	36779	3.165	ng	98
55) Dibenzofuran	9.92	168	51585	3.026	ng	# 95
58) Fluorene	10.26	166	72319	5.364	ng	99
71) Phenanthrene	11.22	178	471880	28.886	ng	98
72) Anthracene	11.27	178	164656	9.907	ng	99
73) Carbazole	11.43	167	40065	2.577	ng	98
75) Fluoranthene	12.40	202	789140	45.080	ng	98
78) Pyrene	12.63	202	735009	28.396	ng	99
81) Benzo(a)anthracene	13.82	228	427733	21.797	ng	97
83) Chrysene	13.85	228	354548	17.823	ng	98
86) Indeno(1,2,3-cd)pyrene	16.60	276	141305	7.693	ng	95
88) Benzo(b)fluoranthene	14.84	252	537477	33.719	ng	# 96
89) Benzo(k)fluoranthene	14.84	252	537477	37.571	ng	# 95
90) Benzo(a)pyrene	15.18	252	277457	19.589	ng	97
91) Dibenzo(a,h)anthracene	16.60	278	37200	2.809	ng	# 74
92) Benzo(a,h,i)perylene	17.01	276	134683	9.962	ng	96

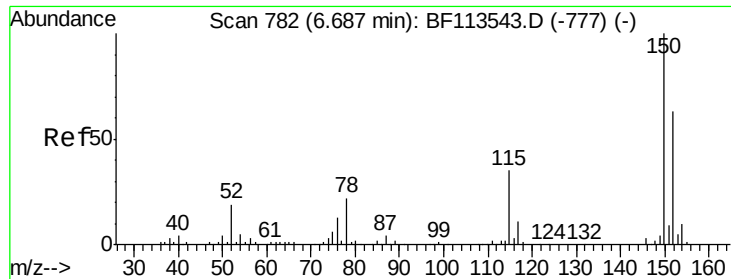
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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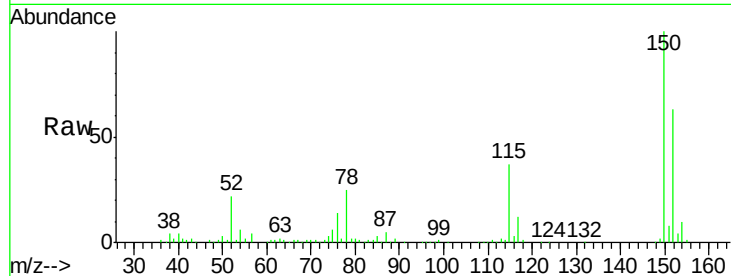


#1

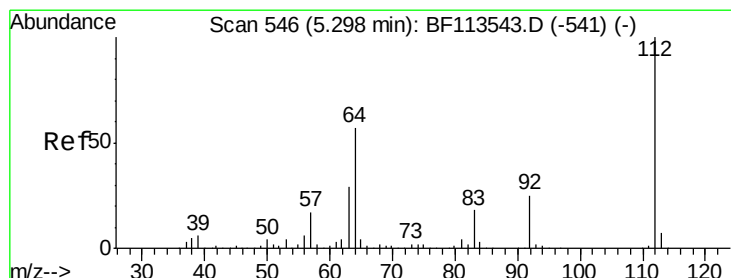
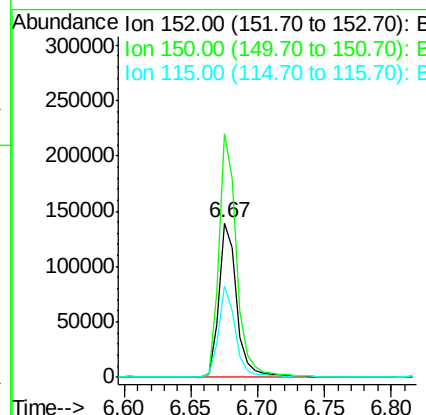
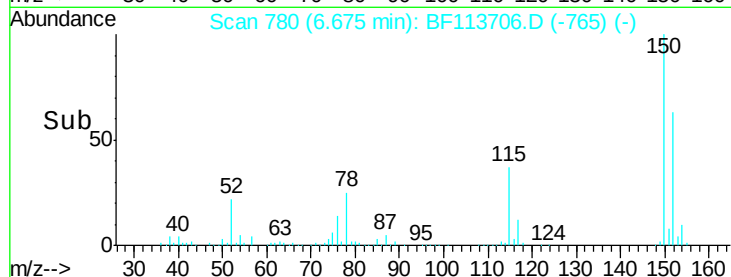
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 780
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampled :

Tot Ion	152	Resp	133204
Ion Ratio	Lower	Upper	
152	100		
150	157.6	124.7	187.1
115	59.0	46.0	69.0



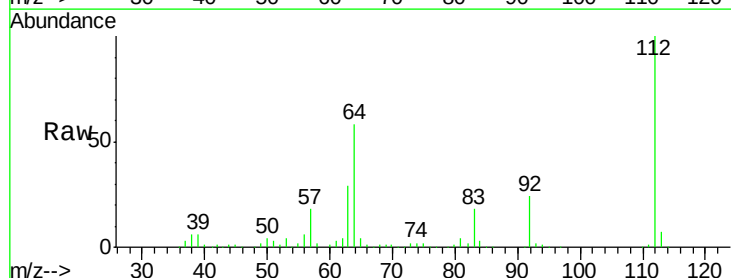
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



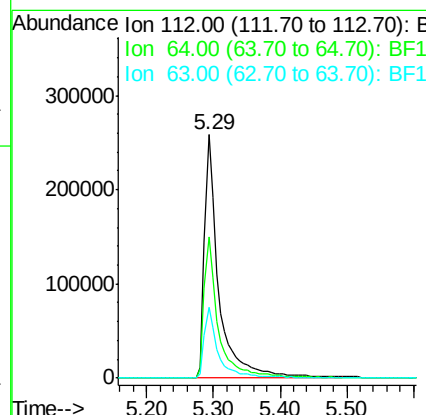
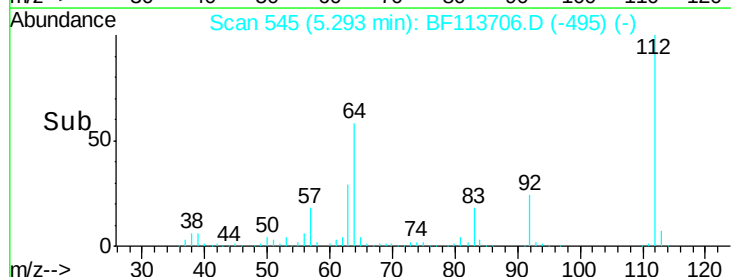
#5

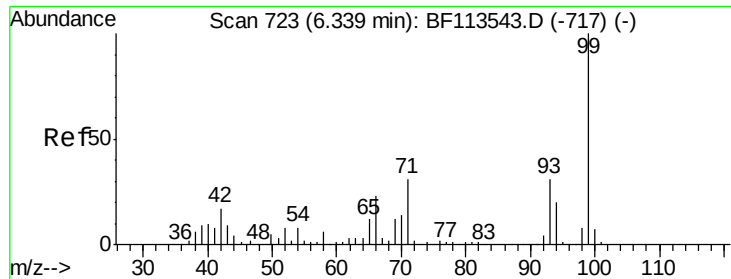
2-Fluorophenol
Concen: 48.336 ng
RT: 5.29 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	112	Resp	377578
Ion Ratio	Lower	Upper	
112	100		
64	58.1	49.2	73.8
63	29.2	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: 52.922 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampled :

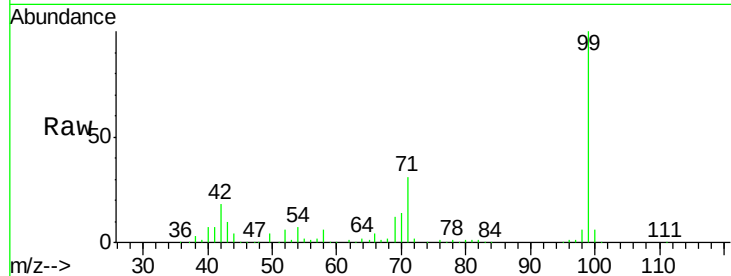
Tot Ion: 99 Resp: 509516

Ion Ratio Lower Upper

99 100

42 18.0 14.8 22.2

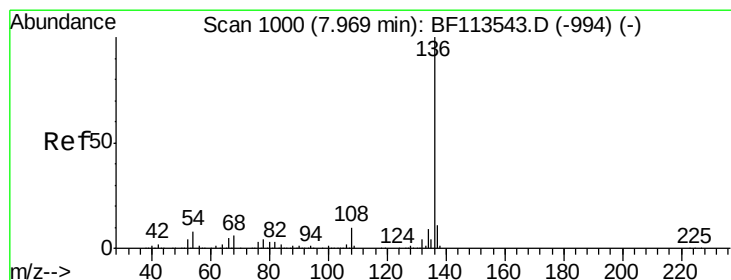
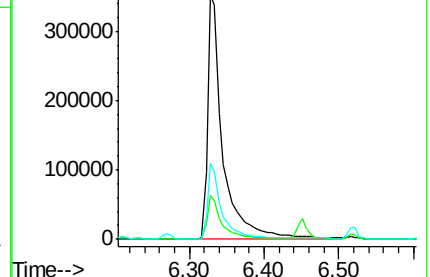
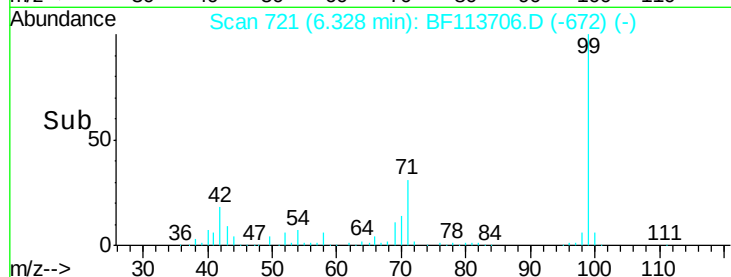
71 31.2 24.9 37.3



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# 998

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Tgt Ion: 136 Resp: 482699

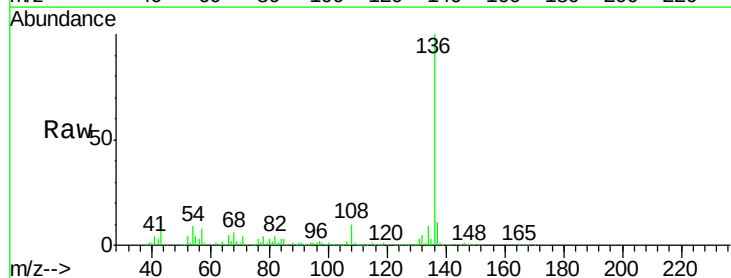
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 8.6 7.0 10.6

68 6.4 4.8 7.2

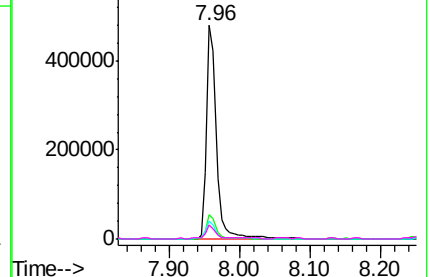
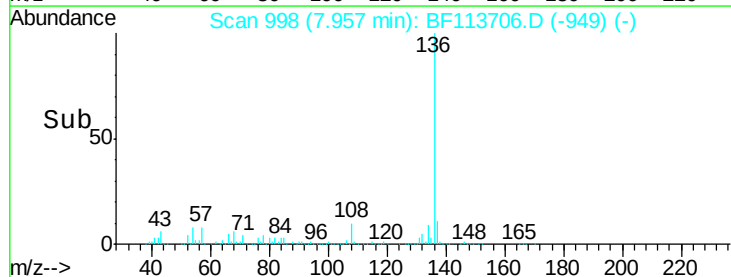


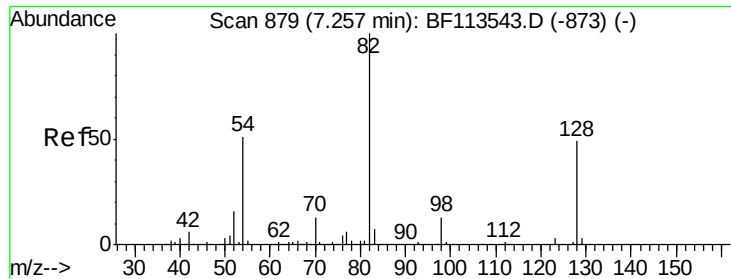
Abundance Ion 136.00 (135.70 to 136.70): E

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

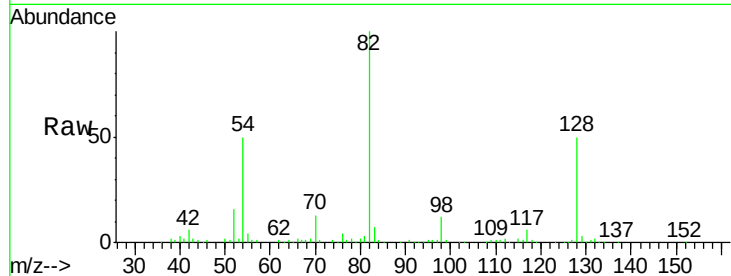




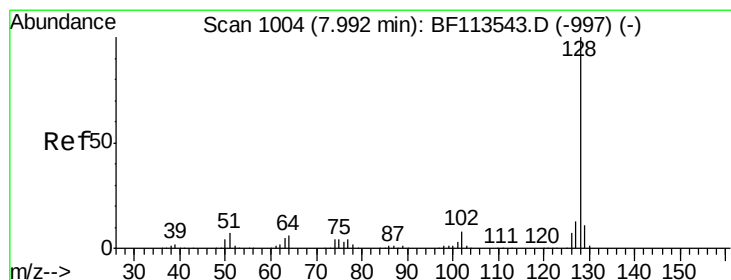
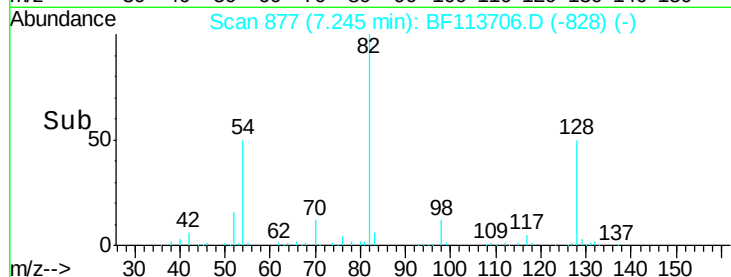
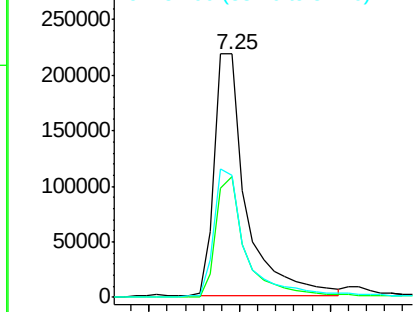
#23
Nitrobenzene-d5
Concen: 32.300 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 266170
Ion Ratio Lower Upper
82 100
128 49.8 36.5 54.7
54 49.9 42.2 63.2

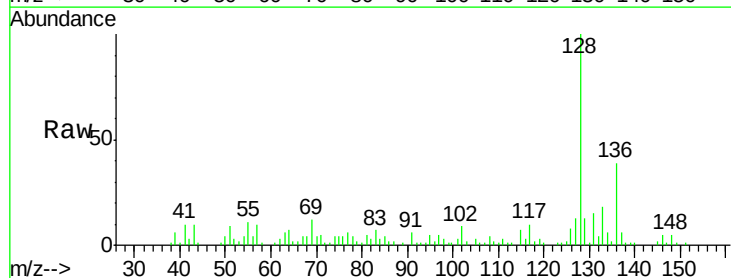


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

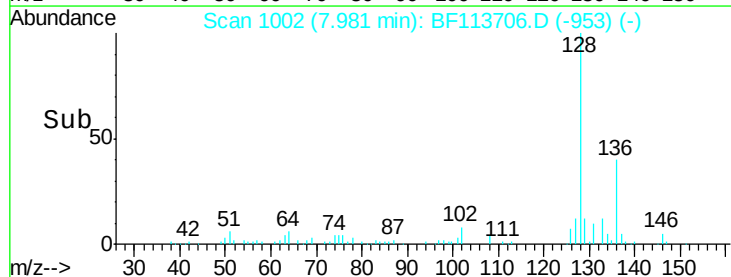
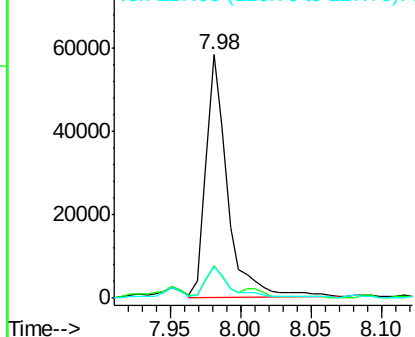


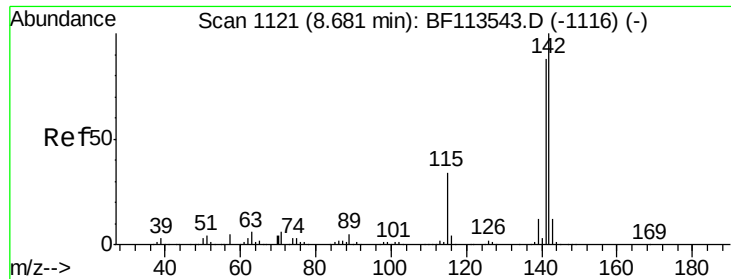
#31
Naphthalene
Concen: 2.626 ng
RT: 7.98 min Scan# 1002
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion: 128 Resp: 61407
Ion Ratio Lower Upper
128 100
129 13.3 9.3 13.9
127 12.9 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

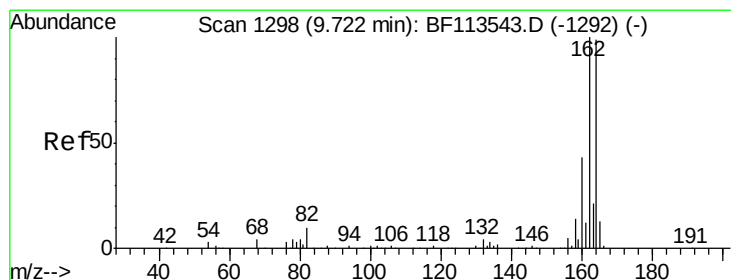
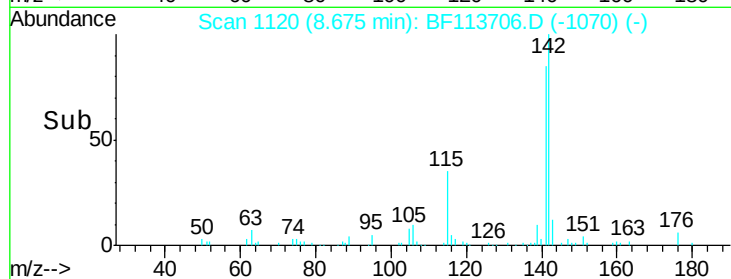
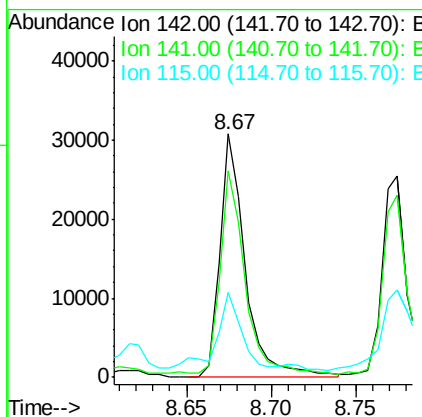
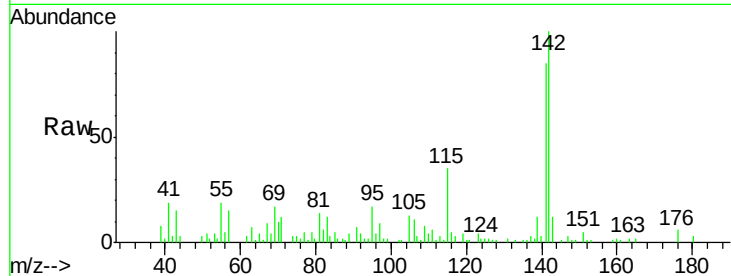




#37
 2-Methylnaphthalene
 Concen: 2.104 ng
 RT: 8.67 min Scan# 1120
 Delta R.T. -0.01 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

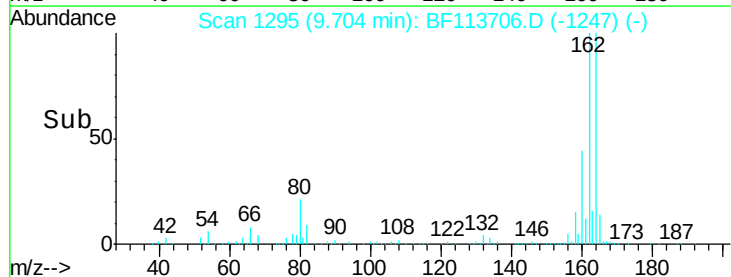
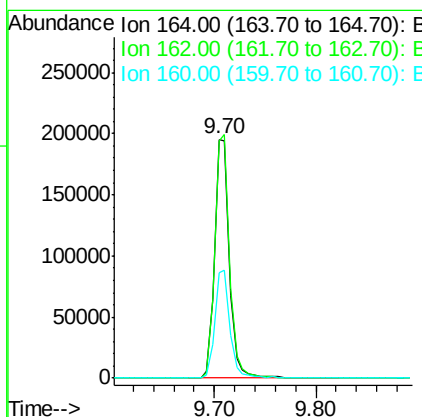
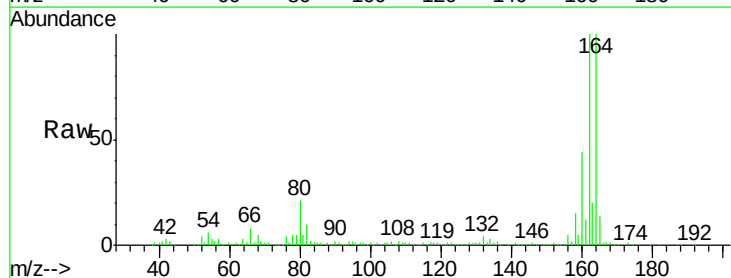
Instrument :
 BNA_F
 ClientSampleId :

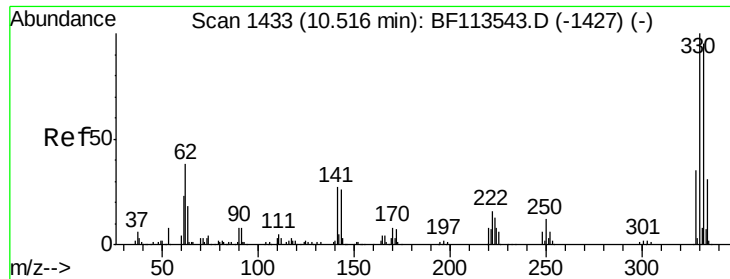
Tot Ion:	142	Resp:	32365
Ion	Ratio	Lower	Upper
142	100		
141	84.6	71.0	106.6
115	34.7	26.6	39.8



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Tgt Ion:	164	Resp:	199819
Ion	Ratio	Lower	Upper
164	100		
162	99.7	81.8	122.6
160	44.2	36.4	54.6





#42

2,4,6-Tribromophenol

Concen: 41.295 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampleId :

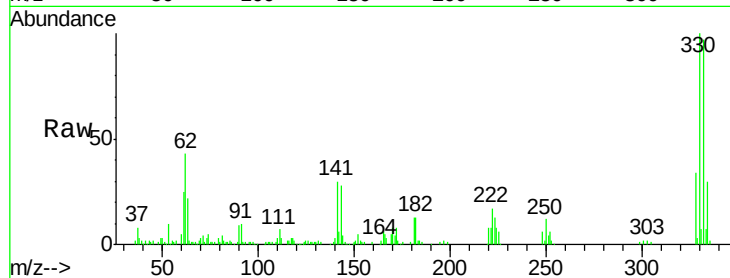
Tot Ion:330 Resp: 99120

Ion Ratio Lower Upper

330 100

332 96.1 77.8 116.6

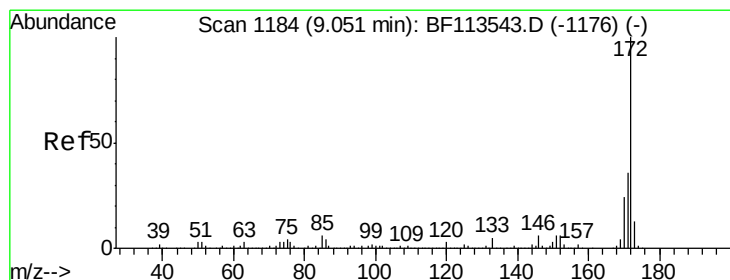
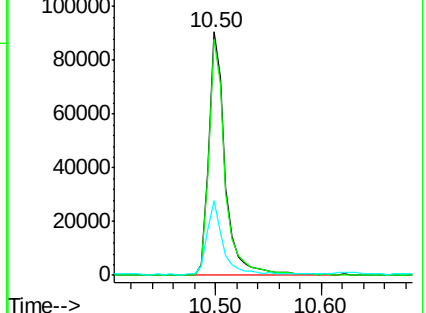
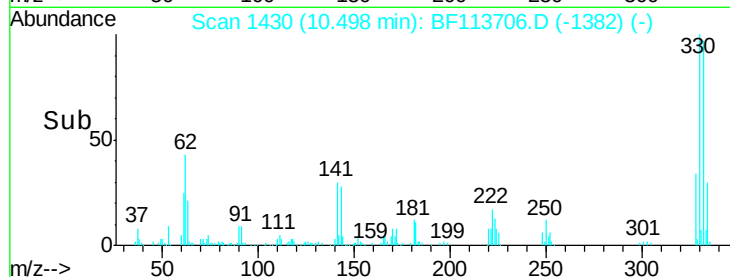
141 28.5 22.7 34.1



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: 41.678 ng

RT: 9.03 min Scan# 1181

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

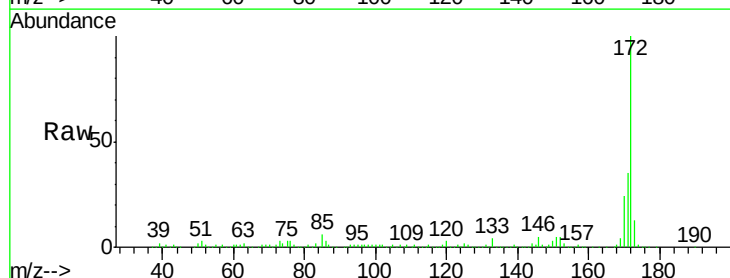
Tgt Ion:172 Resp: 517309

Ion Ratio Lower Upper

172 100

171 34.8 29.0 43.6

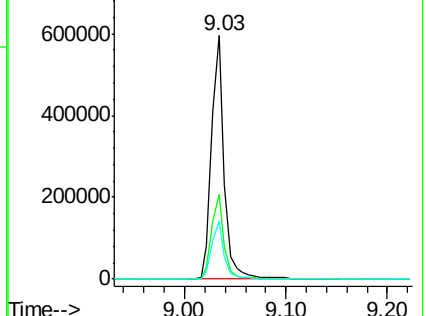
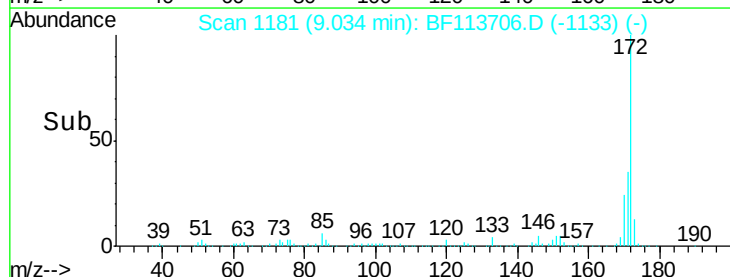
170 23.6 19.5 29.3

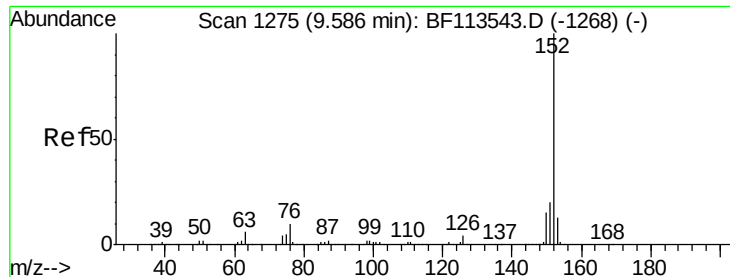


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.507 ng

RT: 9.57 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampleId :

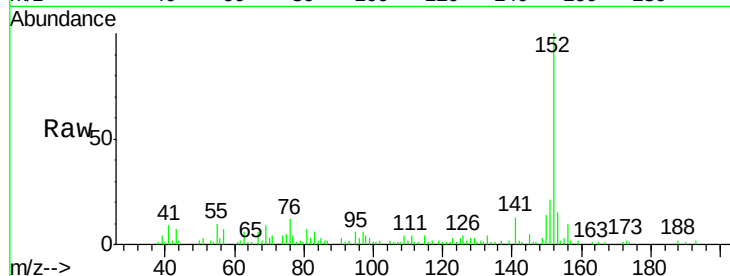
Tot Ion:152 Resp: 50891

Ion Ratio Lower Upper

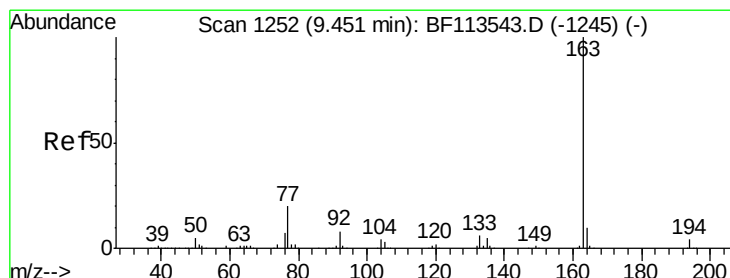
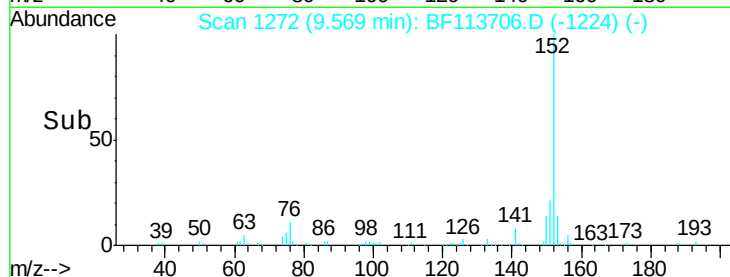
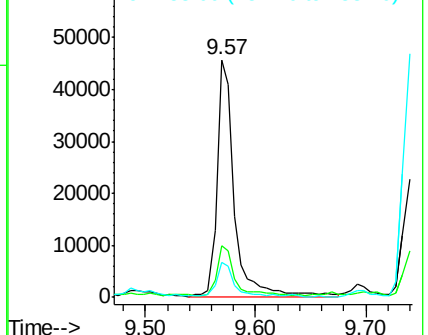
152 100

151 21.5 16.2 24.4

153 14.8 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.017 ng

RT: 9.43 min Scan# 1249

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

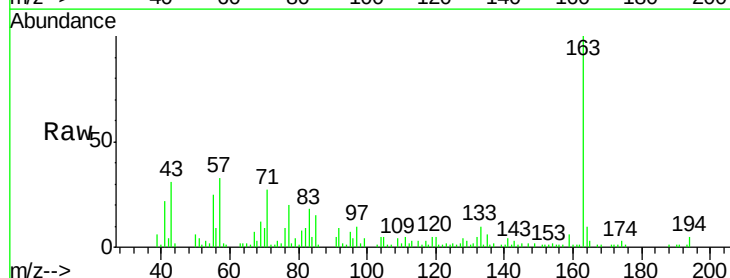
Tgt Ion:163 Resp: 44441

Ion Ratio Lower Upper

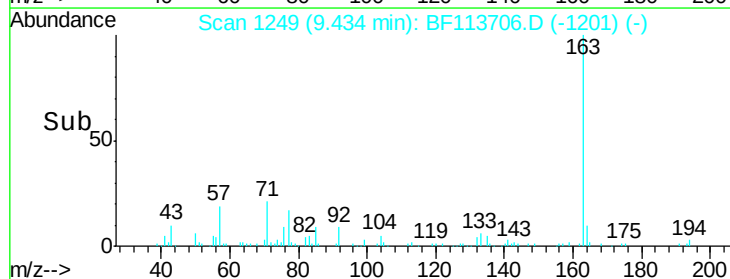
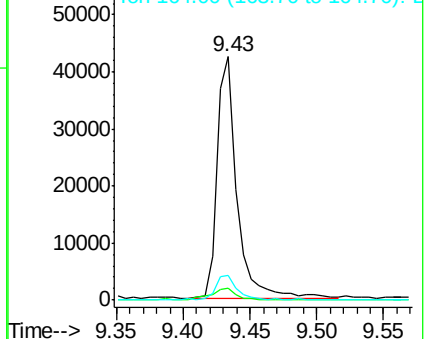
163 100

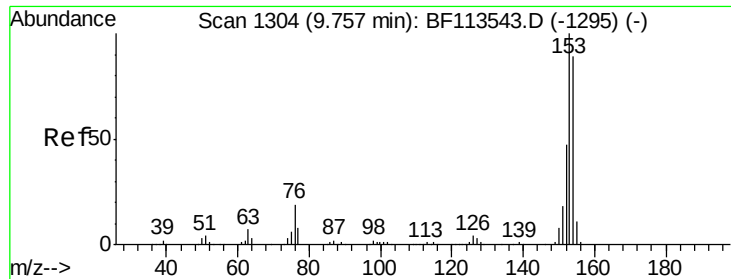
194 4.7 3.0 4.6#

164 10.4 8.1 12.1



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





#52

Acenaphthene

Concen: 3.165 ng

RT: 9.74 min Scan# 1301

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampleId :

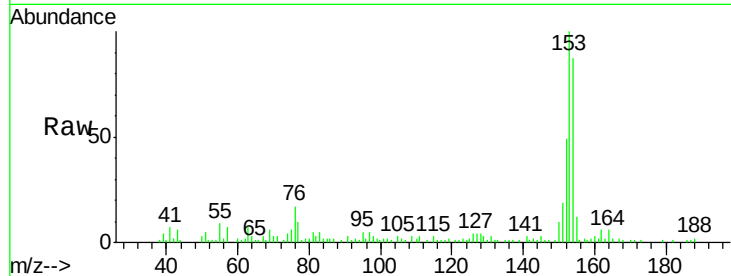
Tot Ion:154 Resp: 36779

Ion Ratio Lower Upper

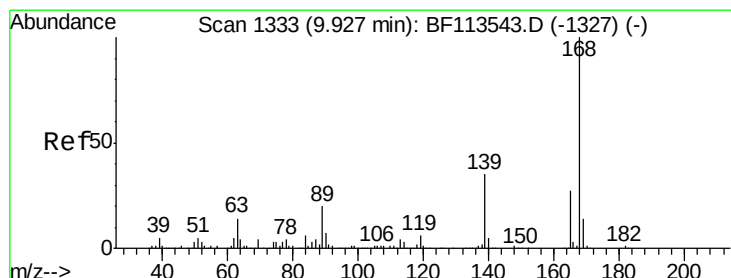
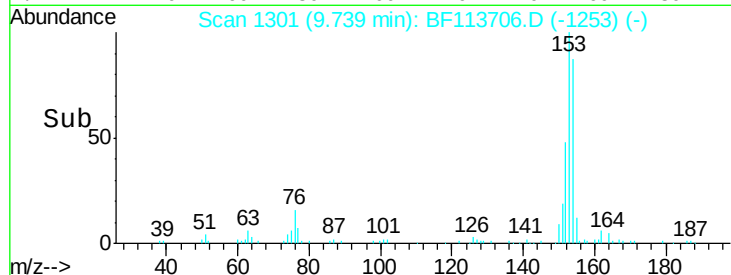
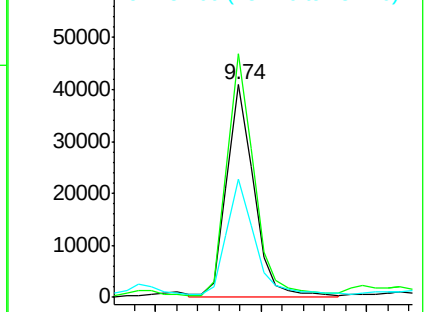
154 100

153 114.4 89.5 134.3

152 55.7 43.3 64.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.026 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

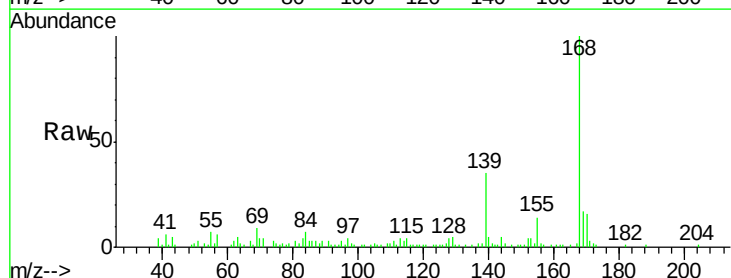
Tgt Ion:168 Resp: 51585

Ion Ratio Lower Upper

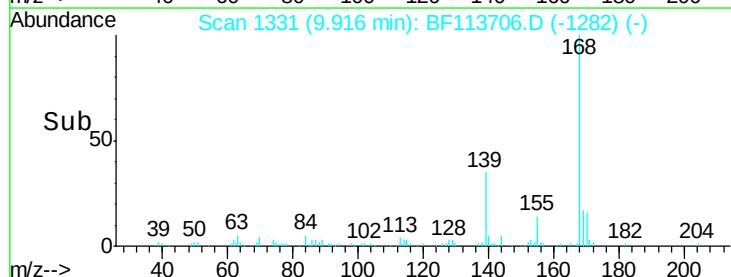
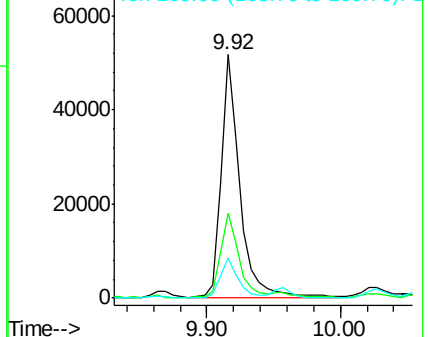
168 100

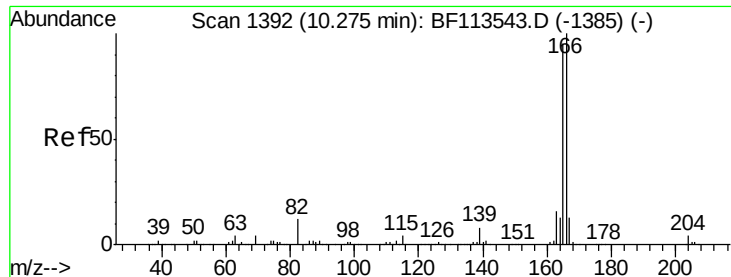
139 35.1 29.7 44.5

169 16.6 10.7 16.1#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 5.364 ng

RT: 10.26 min Scan# 1389

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampleId :

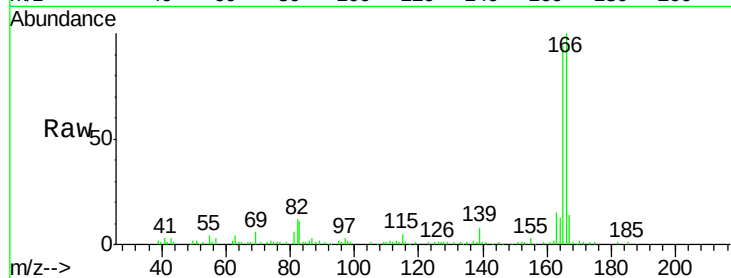
Tot Ion:166 Resp: 72319

Ion Ratio Lower Upper

166 100

165 94.2 76.2 114.2

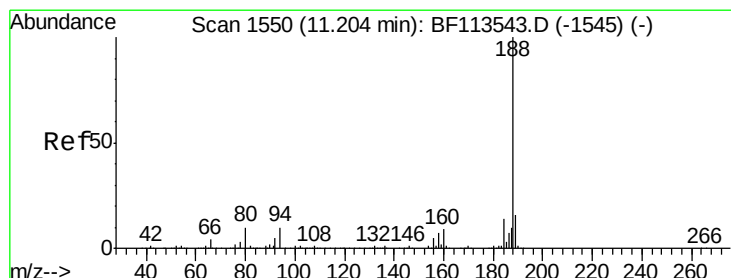
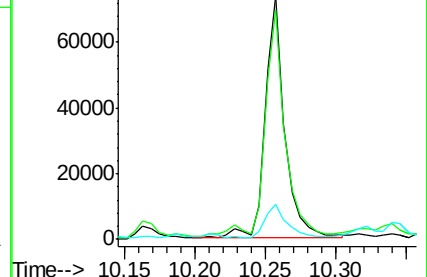
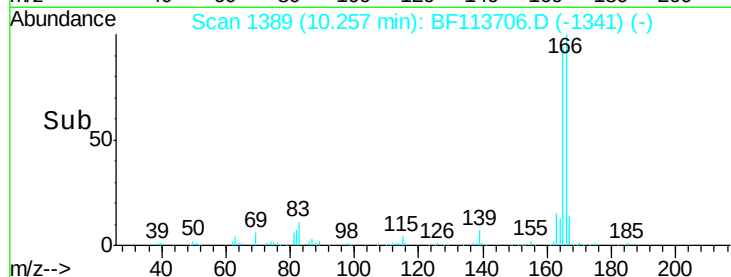
167 14.4 10.7 16.1



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

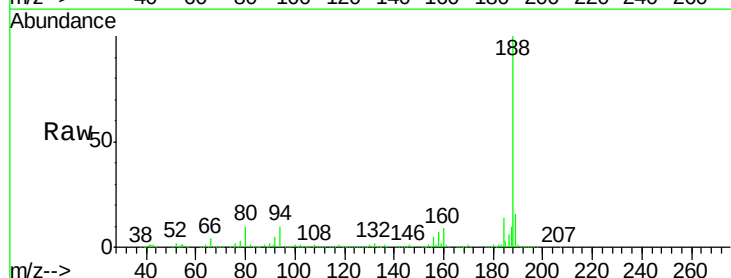
Tgt Ion:188 Resp: 328754

Ion Ratio Lower Upper

188 100

94 9.9 7.0 10.6

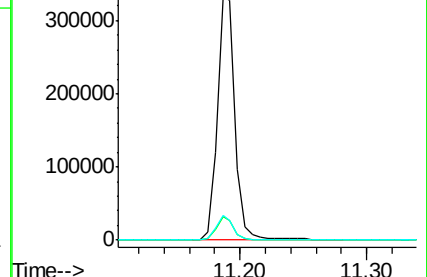
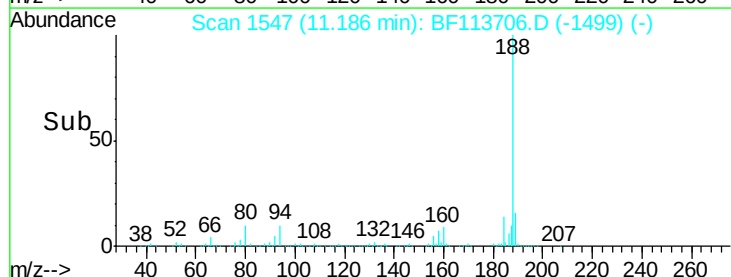
80 10.0 7.7 11.5

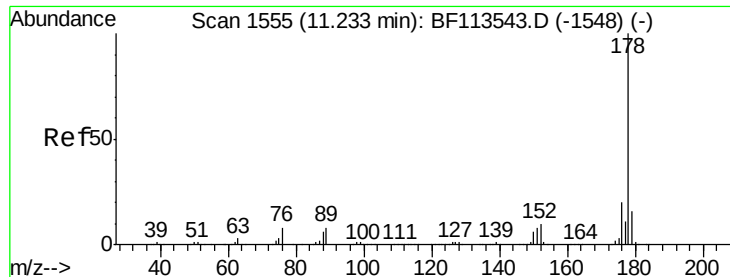


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

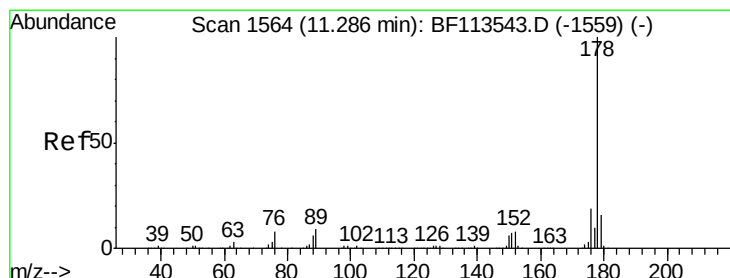
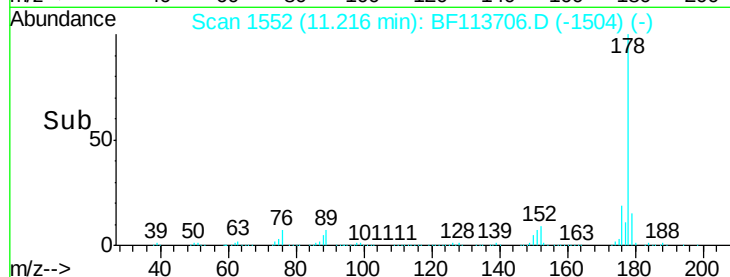
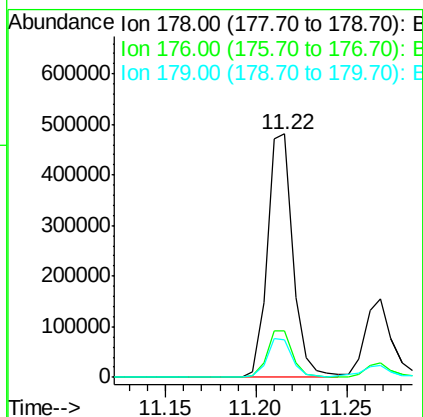
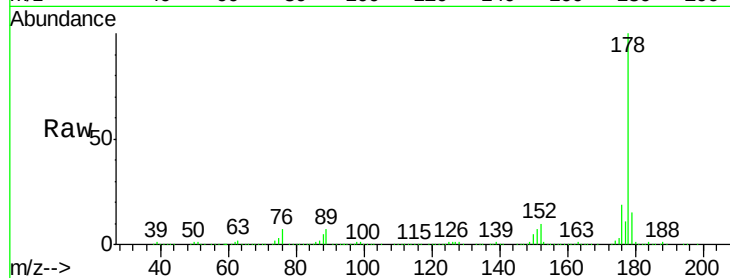




#71
Phenanthrene
Concen: 28.886 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

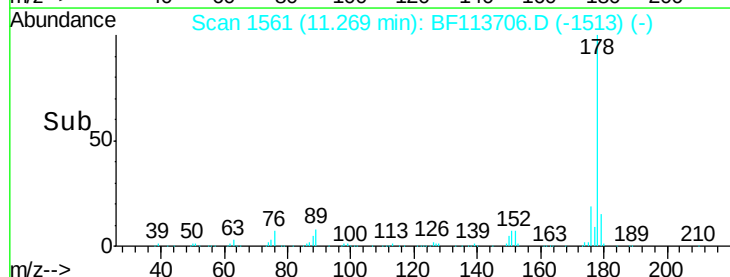
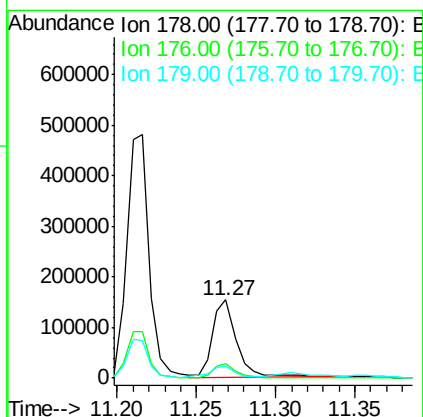
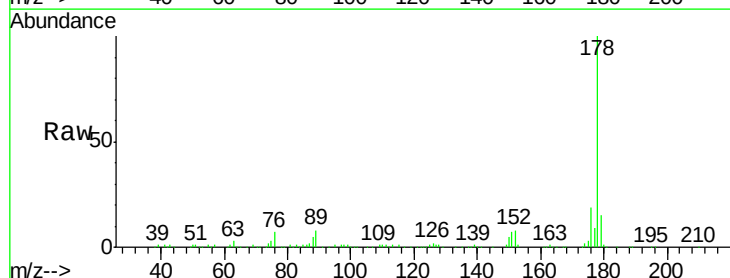
Instrument :
BNA_F
ClientSampleId :

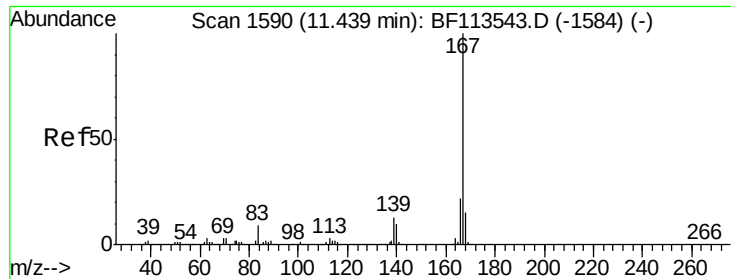
Tot Ion:178 Resp: 471880
Ion Ratio Lower Upper
178 100
176 19.2 16.2 24.2
179 15.4 12.7 19.1



#72
Anthracene
Concen: 9.907 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion:178 Resp: 164656
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.5 12.8 19.2





#73

Carbazole

Concen: 2.577 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Instrument :

BNA_F

ClientSampleId :

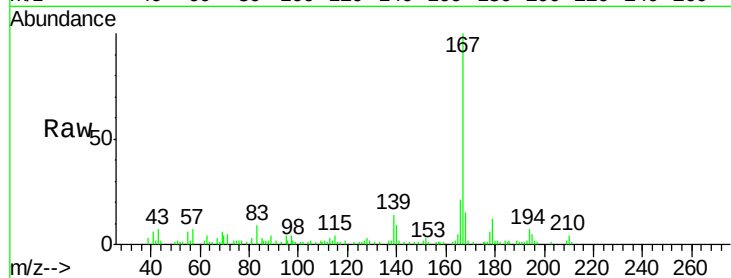
Tot Ion:167 Resp: 40065

Ion Ratio Lower Upper

167 100

166 20.8 17.4 26.0

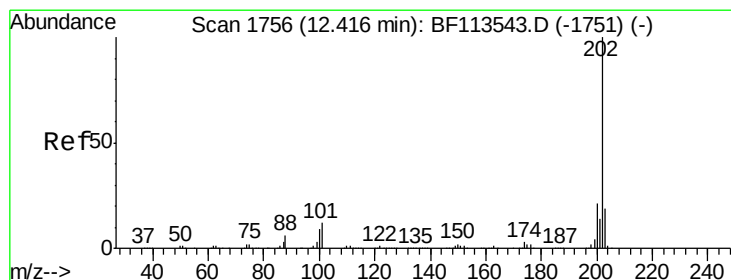
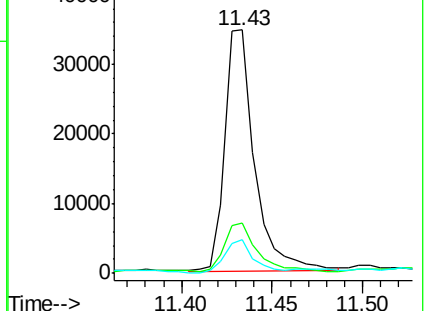
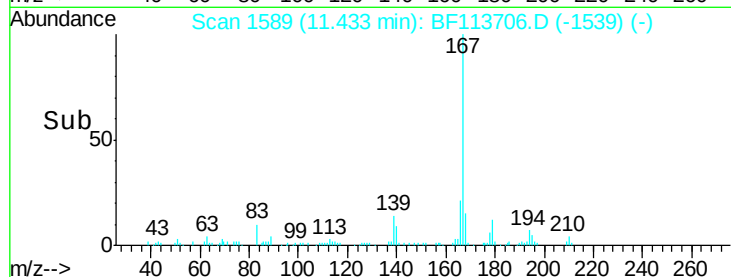
139 14.0 10.4 15.6



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 45.080 ng

RT: 12.40 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

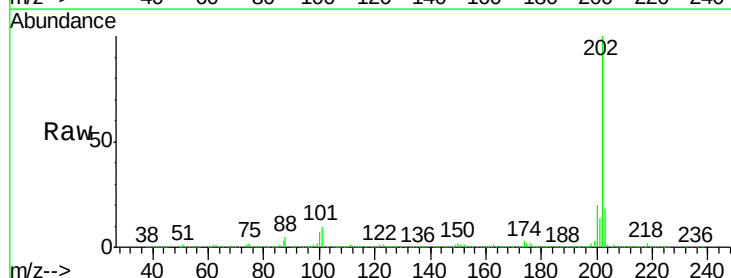
Tgt Ion:202 Resp: 789140

Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.4

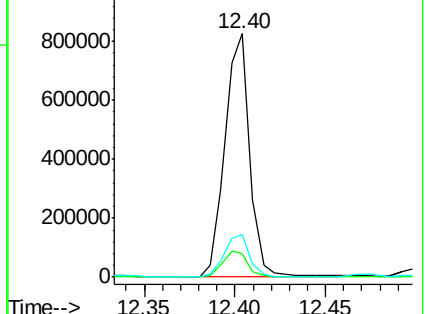
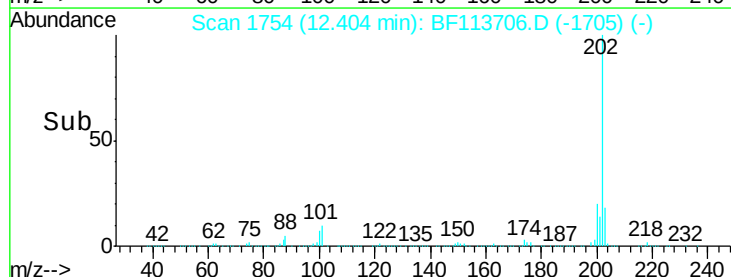
203 17.7 0.0 38.0

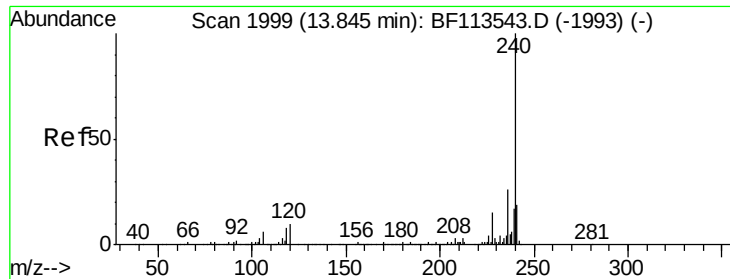


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

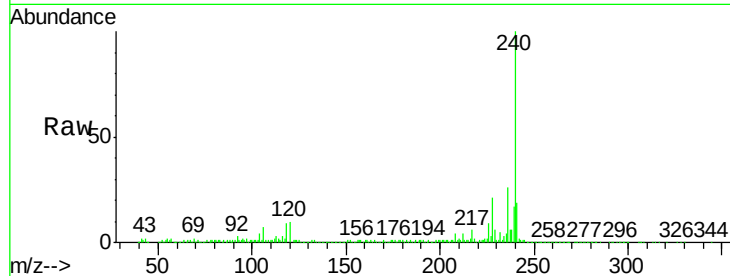
Instrument :

BNA_F

ClientSampleId :

Tot Ion:240 Resp: 340187

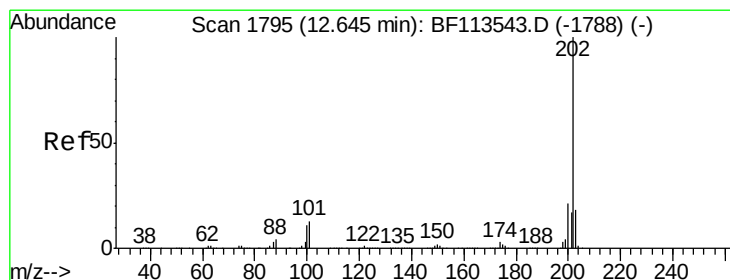
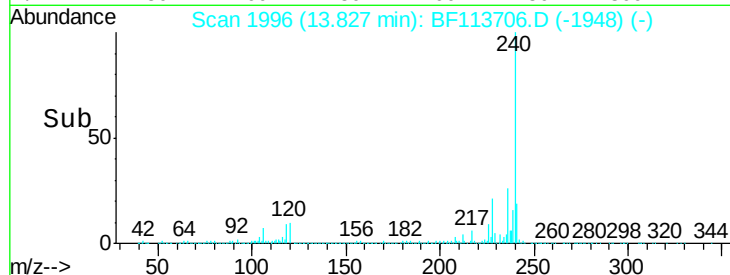
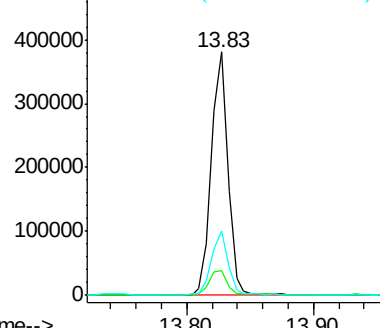
Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.2	20.9	31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 28.396 ng

RT: 12.63 min Scan# 1792

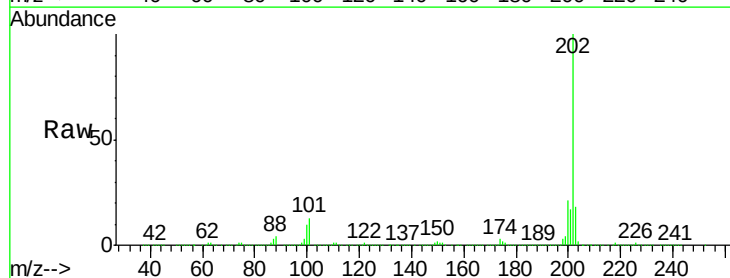
Delta R.T. -0.02 min

Lab File: BF113706.D

Acq: 10 Apr 2019 19:54

Tgt Ion:202 Resp: 735009

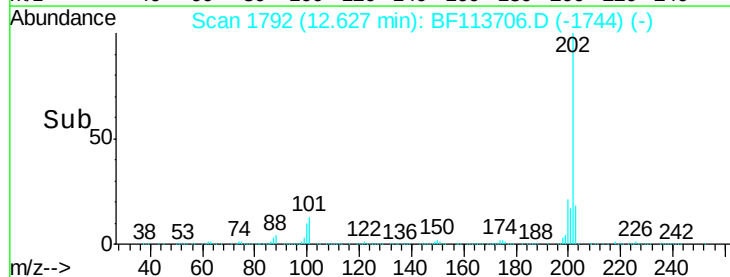
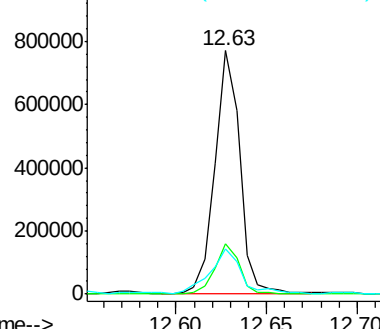
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.8	25.2
203	18.4	14.4	21.6

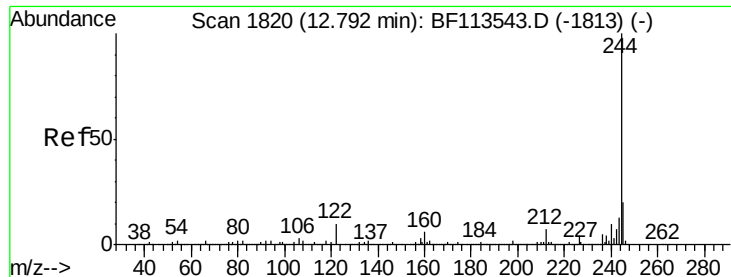


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

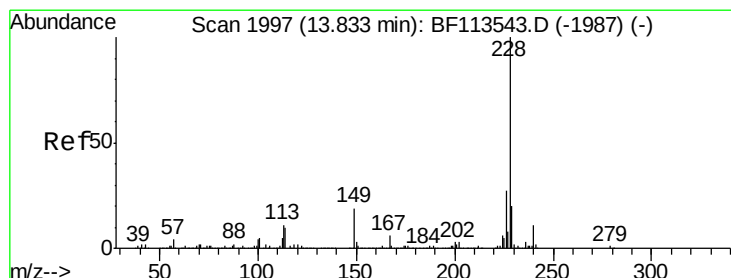
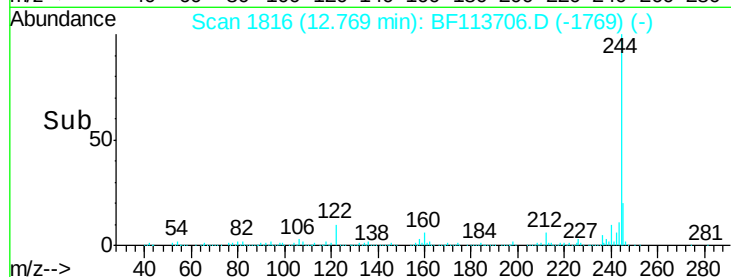
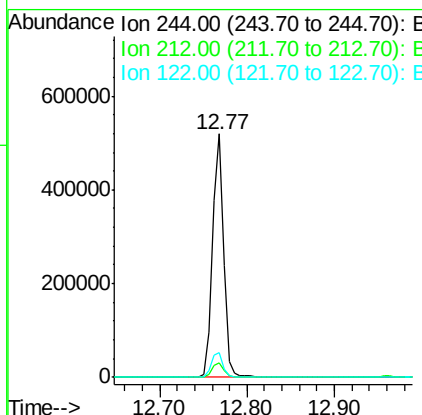
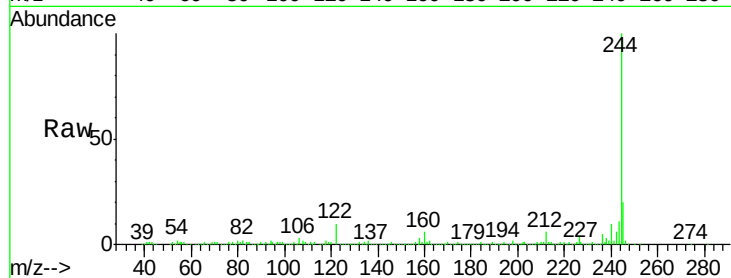




#79
 Terphenyl-d14
 Concen: 27.542 ng
 RT: 12.77 min Scan# 1816
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

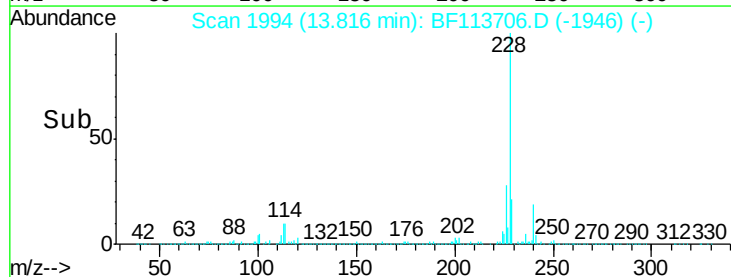
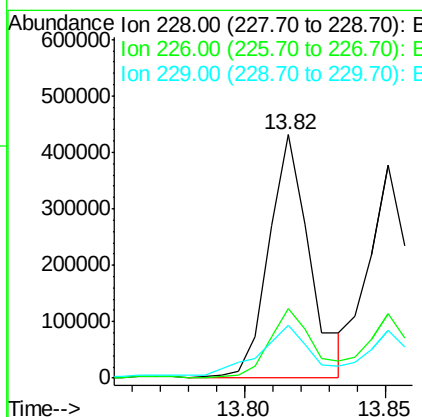
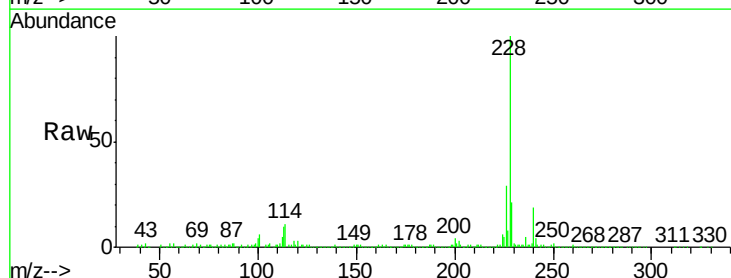
Instrument :
 BNA_F
 ClientSampleId :

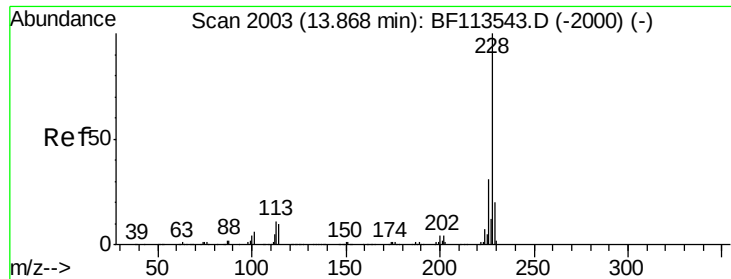
Tot Ion:244 Resp: 460184
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.5 8.3
 122 10.4 8.6 13.0



#81
 Benzo(a)anthracene
 Concen: 21.797 ng
 RT: 13.82 min Scan# 1994
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Tgt Ion:228 Resp: 427733
 Ion Ratio Lower Upper
 228 100
 226 28.7 21.8 32.8
 229 21.5 16.2 24.4

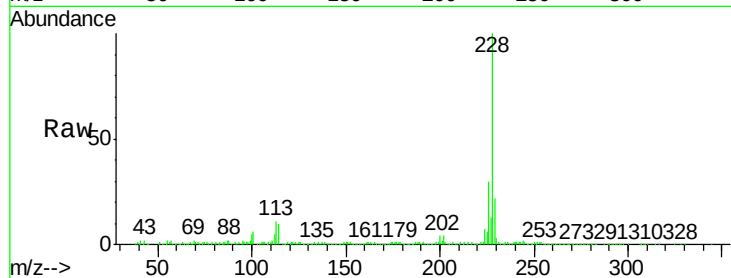




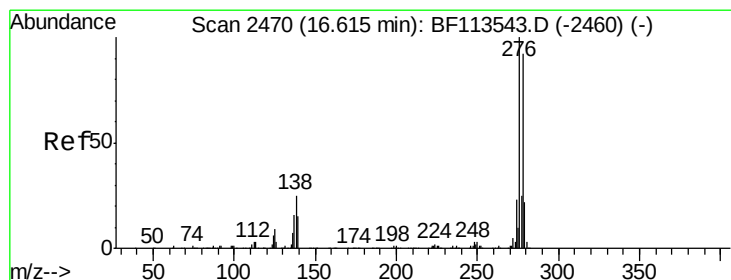
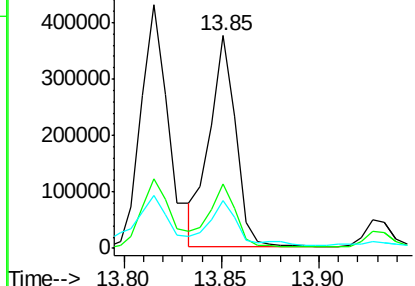
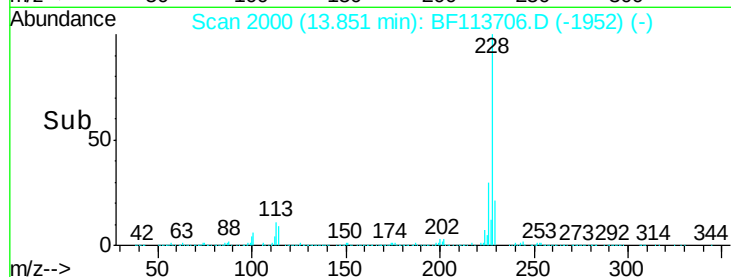
#83
 Chrysene
 Concen: 17.823 ng
 RT: 13.85 min Scan# 2000
 Delta R.T. -0.02 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:228 Resp: 354548
 Ion Ratio Lower Upper
 228 100
 226 30.3 24.3 36.5
 229 22.5 16.3 24.5

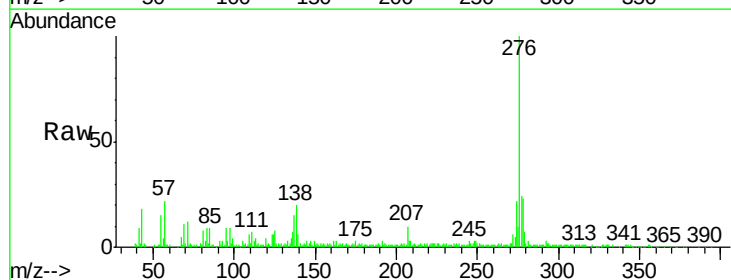


Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E

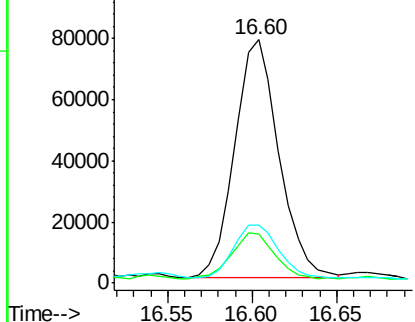
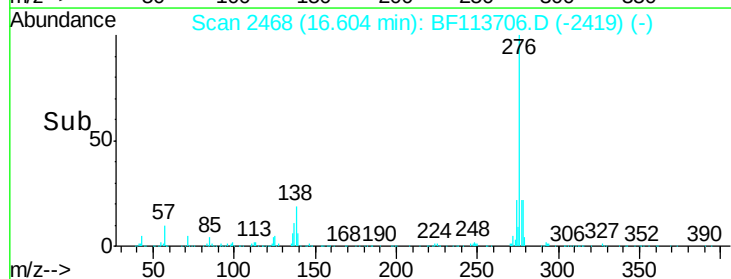


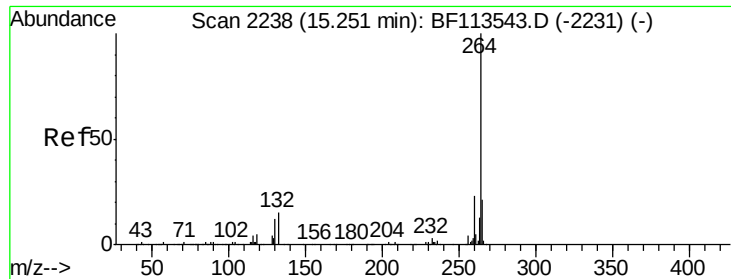
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.693 ng
 RT: 16.60 min Scan# 2468
 Delta R.T. -0.01 min
 Lab File: BF113706.D
 Acq: 10 Apr 2019 19:54

Tgt Ion:276 Resp: 141305
 Ion Ratio Lower Upper
 276 100
 138 20.0 18.1 27.1
 277 22.7 20.2 30.4



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

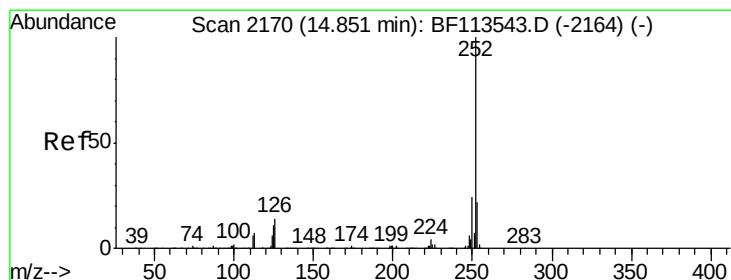
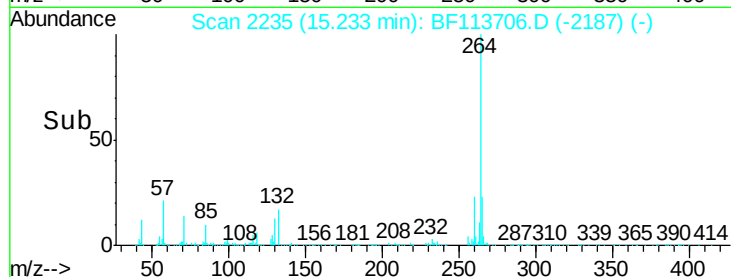
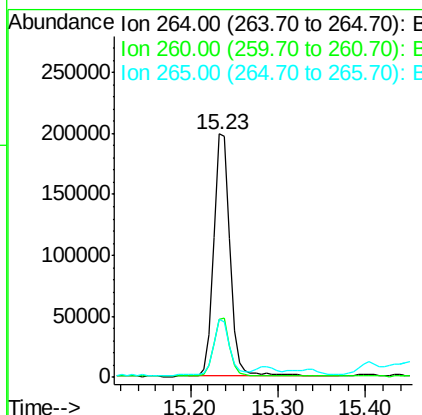
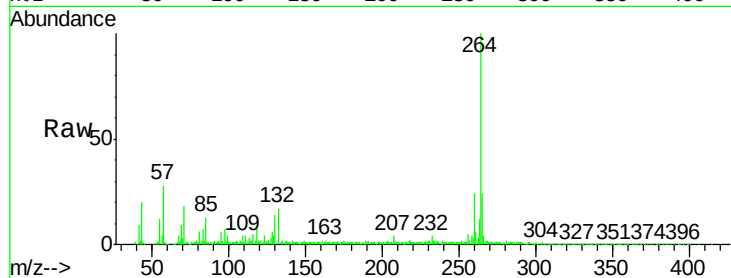




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

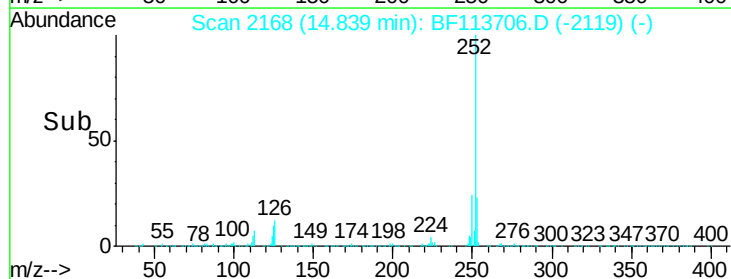
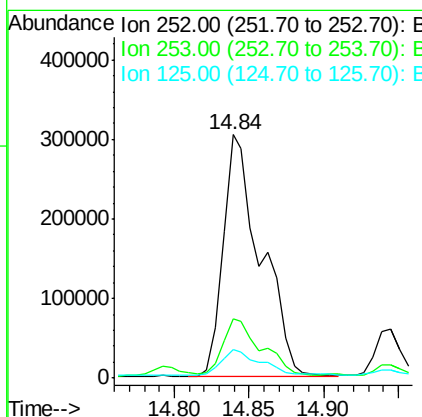
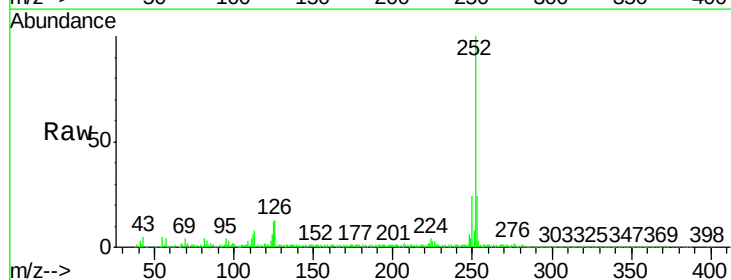
Instrument :
BNA_F
ClientSampleId :

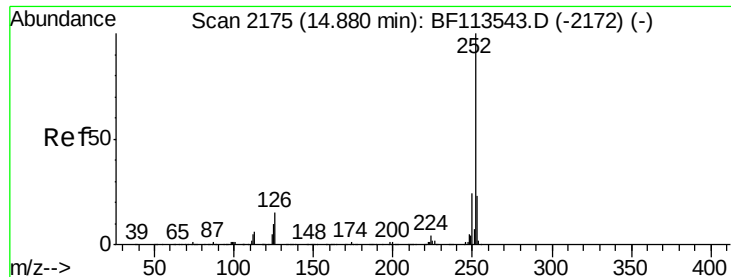
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	23.6	17.1	25.7



#88
Benzo(b)fluoranthene
Concen: 33.719 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.0	27.0
125	11.6	7.6	11.4

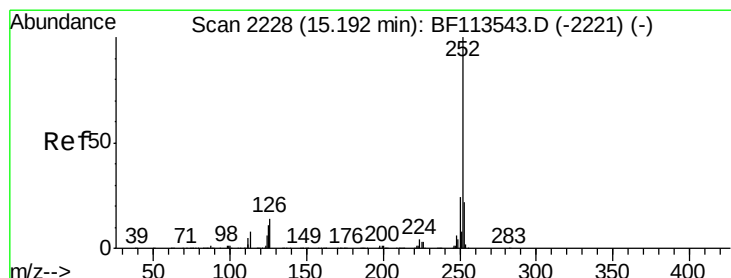
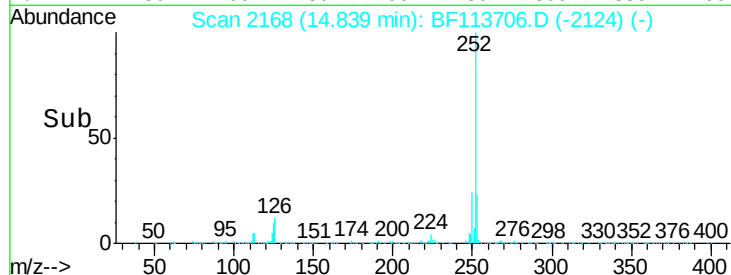
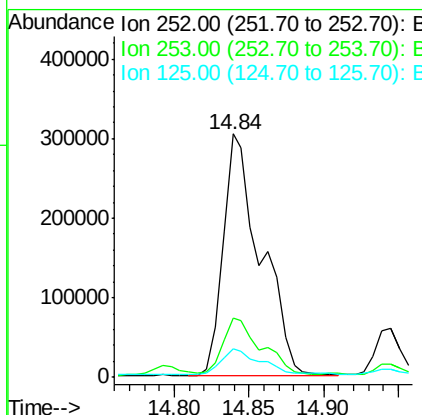
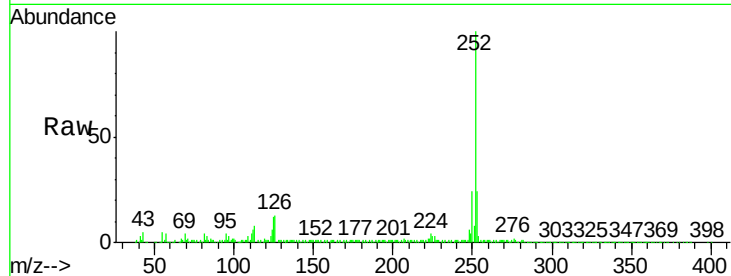




#89
Benzo(k)fluoranthene
Concen: 37.571 ng
RT: 14.84 min Scan# 2168
Delta R.T. -0.04 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

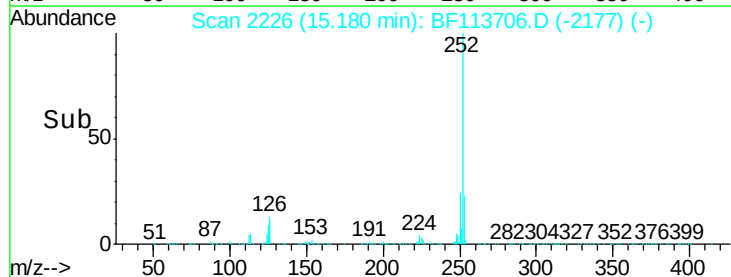
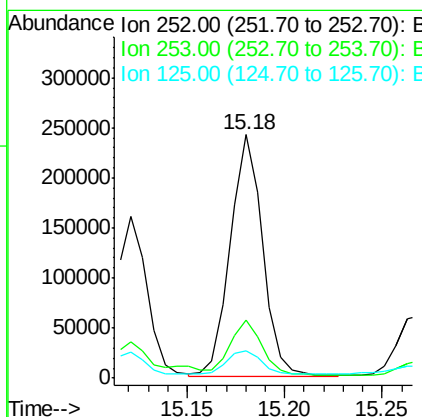
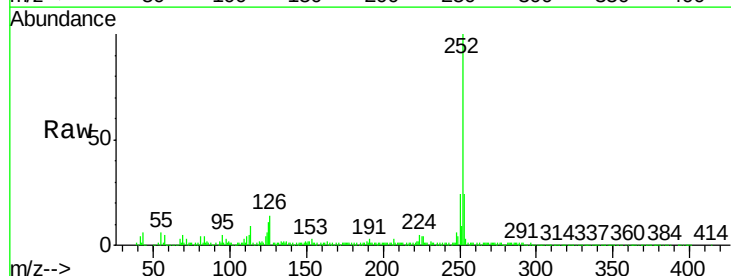
Instrument :
BNA_F
ClientSampleId :

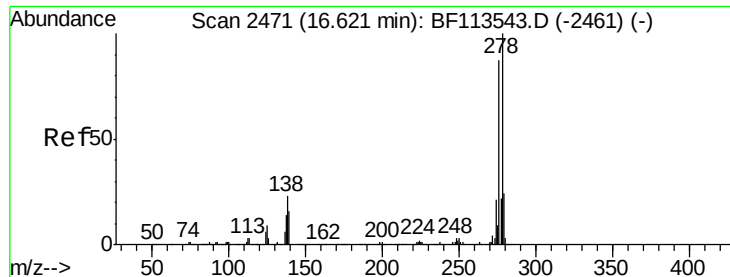
Tot Ion:252 Resp: 537477
Ion Ratio Lower Upper
252 100
253 24.2 17.7 26.5
125 11.6 7.3 10.9#



#90
Benzo(a)pyrene
Concen: 19.589 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion:252 Resp: 277457
Ion Ratio Lower Upper
252 100
253 24.0 17.9 26.9
125 11.3 8.8 13.2

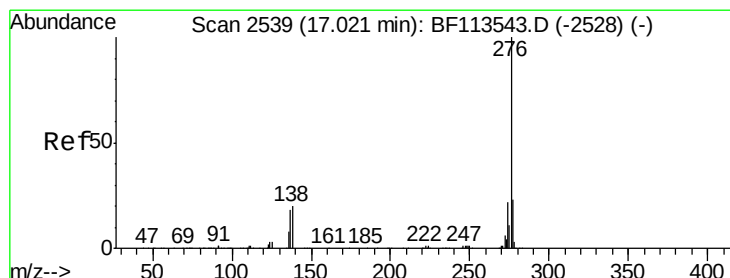
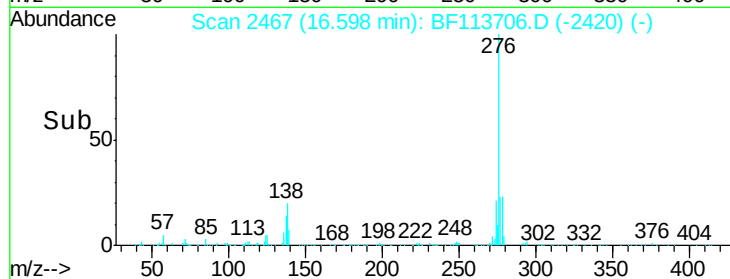
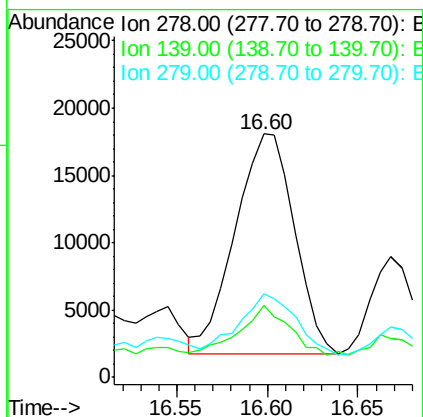
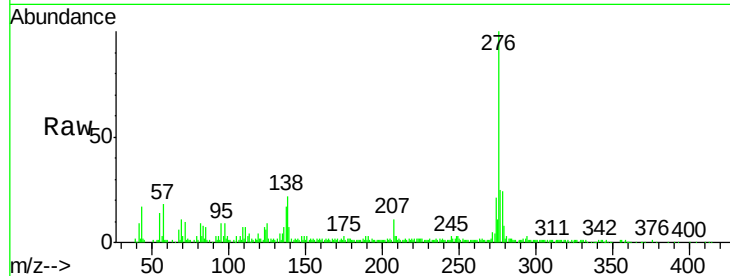




#91
Dibenzo(a,h)anthracene
Concen: 2.809 ng
RT: 16.60 min Scan# 2467
Delta R.T. -0.02 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 37200
Ion Ratio Lower Upper
278 100
139 29.5 12.0 18.0#
279 34.2 19.0 28.6#



#92
Benzo(g,h,i)perylene
Concen: 9.962 ng
RT: 17.01 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BF113706.D
Acq: 10 Apr 2019 19:54

Tgt Ion:276 Resp: 134683
Ion Ratio Lower Upper
276 100
277 25.6 18.8 28.2
138 21.5 15.6 23.4

