

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051520\
 Data File : BF120333.D
 Acq On : 15 May 2020 20:39
 Operator : MA/SJ
 Sample : L2655-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C0F19

Quant Time: May 16 05:00:05 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 12:31:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	216703	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	701078	20.00	ng	0.00
39) Acenaphthene-d10	9.66	164	341500	20.00	ng	0.01
64) Phenanthrene-d10	11.15	188	552552	20.00	ng	0.02
76) Chrysene-d12	13.79	240	385303	20.00	ng	0.01
87) Perylene-d12	15.19	264	467891	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.23	112	136379	12.25	ng	0.00
7) Phenol-d6	6.27	99	234379	16.64	ng	0.00
23) Nitrobenzene-d5	7.18	82	313642	30.63	ng	-0.01
42) 2,4,6-Tribromophenol	10.46	330	24898	8.94	ng	0.01
45) 2-Fluorobiphenyl	8.99	172	438756	26.40	ng	0.00
79) Terphenyl-d14	12.73	244	319968	18.35	ng	0.01

Target Compounds

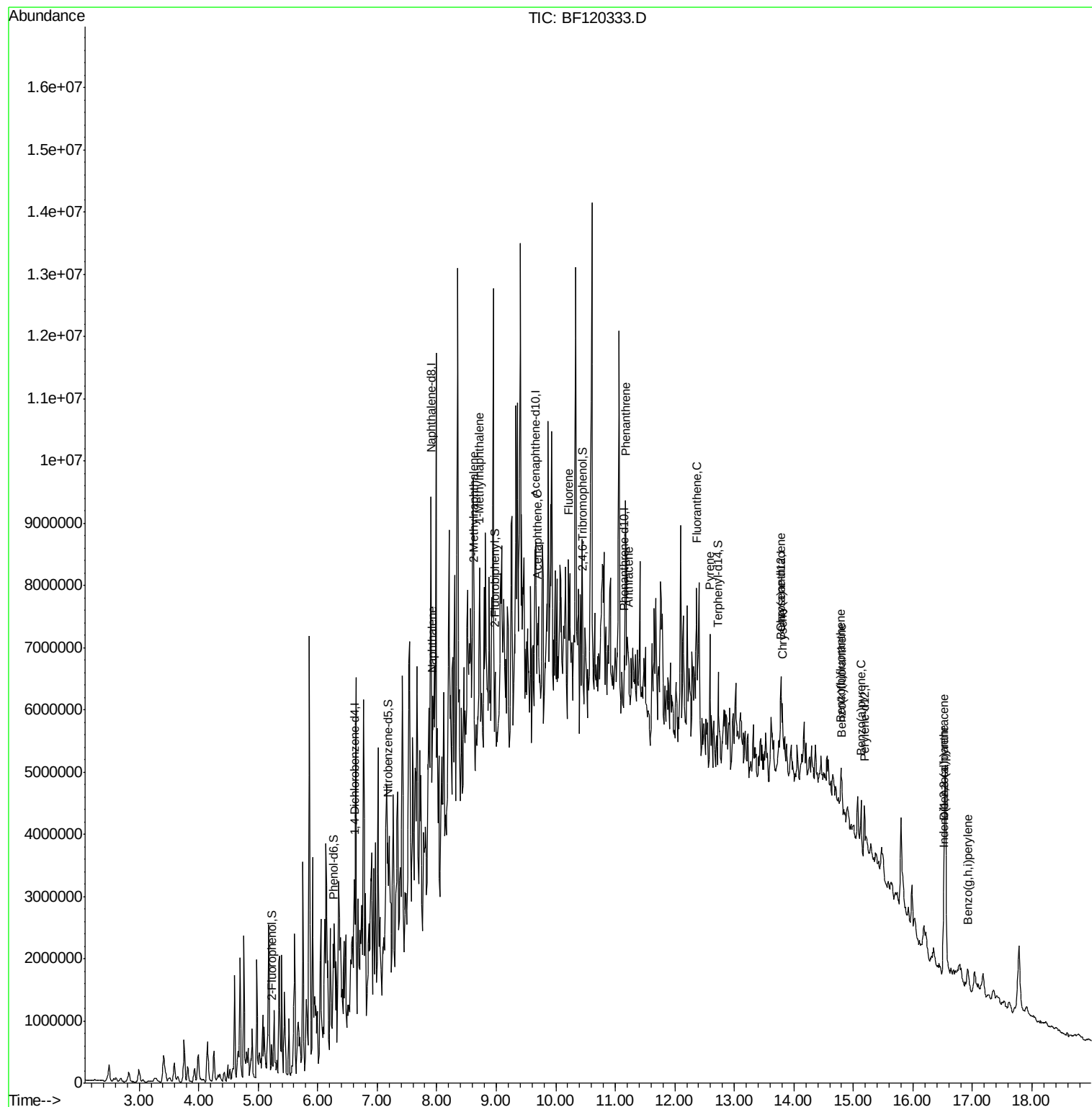
						Qvalue
31) Naphthalene	7.93	128	393804	13.309	ng	# 89
37) 2-Methylnaphthalene	8.63	142	1053435	52.026	ng	98
38) 1-Methylnaphthalene	8.72	142	785462m	39.996	ng	
52) Acenaphthene	9.70	154	112986	6.875	ng	# 83
58) Fluorene	10.22	166	274737	15.243	ng	# 87
71) Phenanthrene	11.17	178	1394287	60.051	ng	97
72) Anthracene	11.23	178	277151m	11.150	ng	
75) Fluoranthene	12.36	202	735497	29.555	ng	97
78) Pyrene	12.59	202	971342	35.362	ng	97
81) Benzo(a)anthracene	13.77	228	509954	25.093	ng	# 89
83) Chrysene	13.81	228	554688	25.419	ng	# 88
86) Indeno(1,2,3-cd)pyrene	16.51	276	174378	8.804	ng	94
88) Benzo(b)fluoranthene	14.79	252	380472m	14.890	ng	
89) Benzo(k)fluoranthene	14.81	252	111264m	5.026	ng	
90) Benzo(a)pyrene	15.13	252	384448	16.776	ng	# 86
91) Dibenzo(a,h)anthracene	16.52	278	82148	4.046	ng	# 59
92) Benzo(g,h,i)perylene	16.92	276	223382	10.912	ng	95

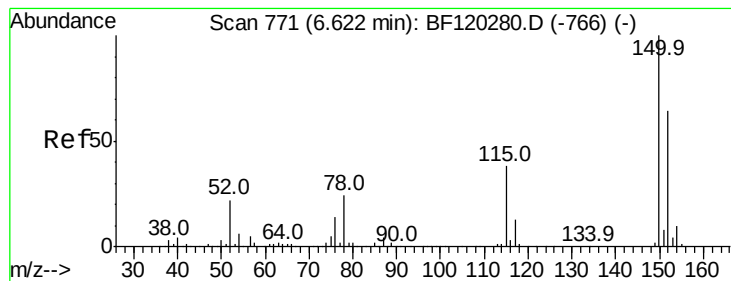
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.62 min Scan# 770

Delta R.T. 0.00 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

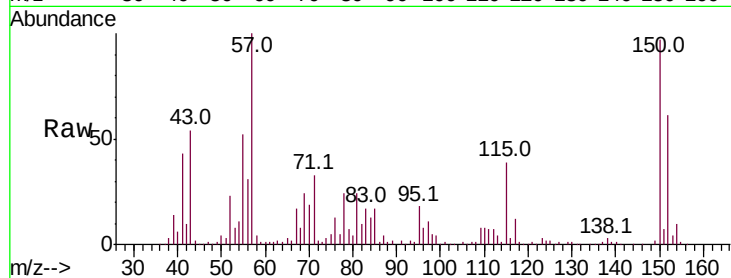
Tot Ion:152 Resp: 216703

Ion Ratio Lower Upper

152 100

150 158.5 126.2 189.2

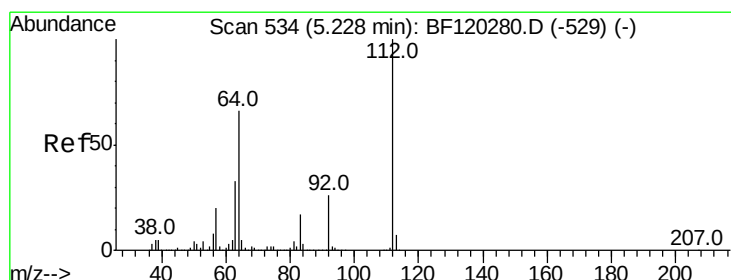
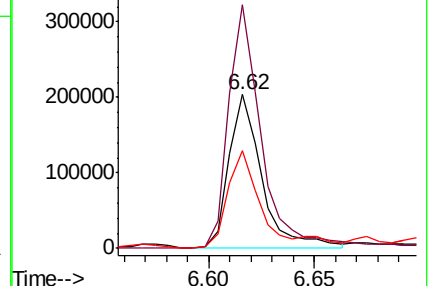
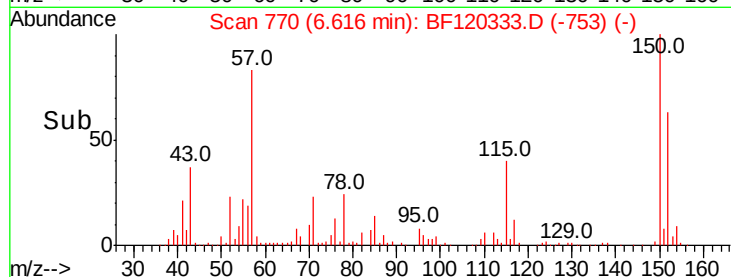
115 63.3 47.9 71.9



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: 12.245 ng

RT: 5.23 min Scan# 534

Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

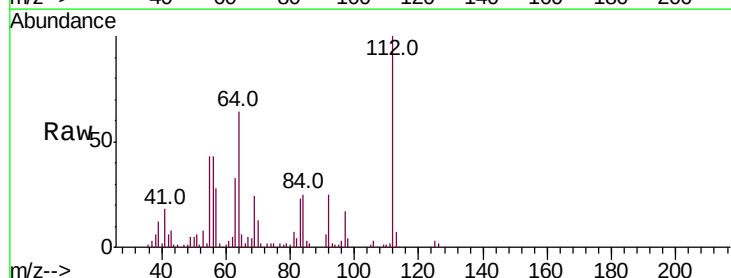
Tgt Ion:112 Resp: 136379

Ion Ratio Lower Upper

112 100

64 64.2 52.7 79.1

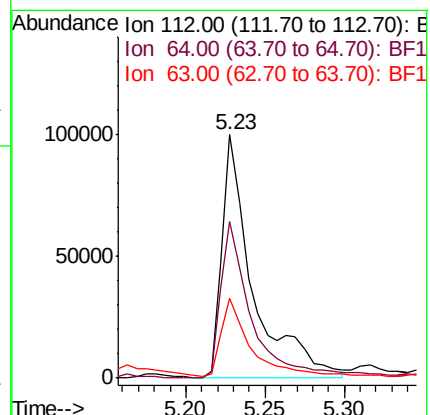
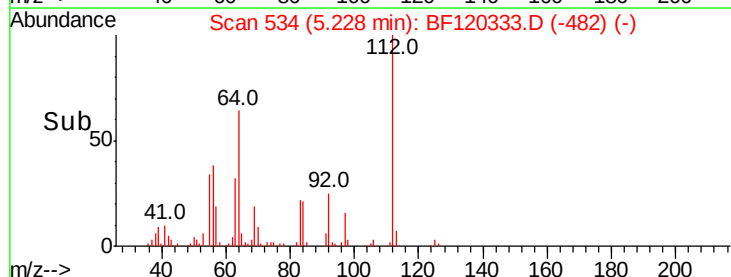
63 32.9 26.2 39.4

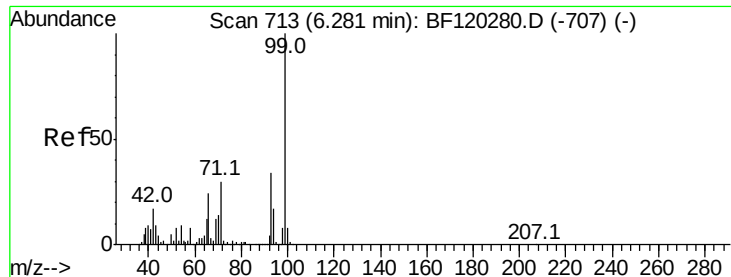


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 16.641 ng

RT: 6.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampled :

C0F19

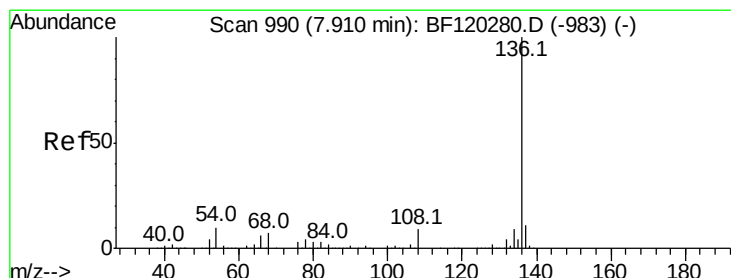
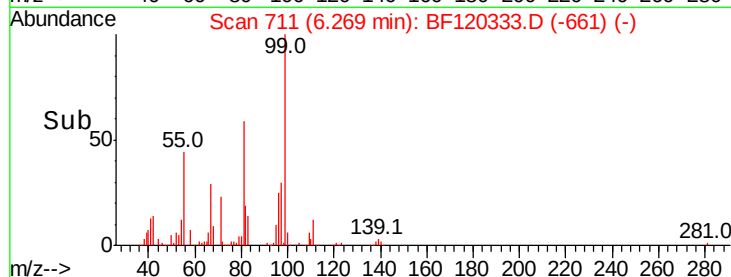
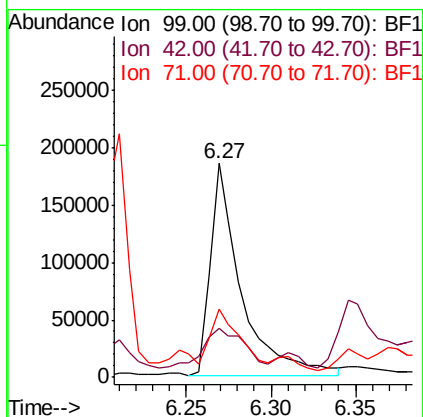
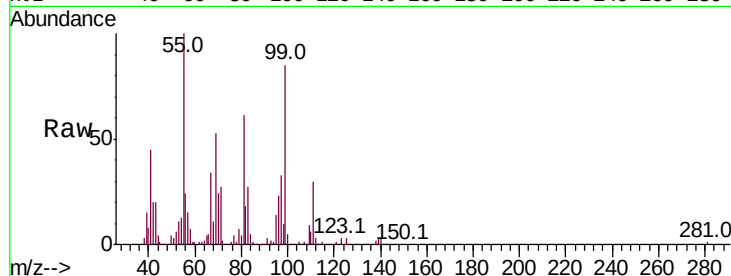
Tot Ion: 99 Resp: 234379

Ion Ratio Lower Upper

99 100

42 23.2 13.6 20.4#

71 31.9 24.2 36.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.90 min Scan# 989

Delta R.T. 0.00 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Tgt Ion: 136 Resp: 701078

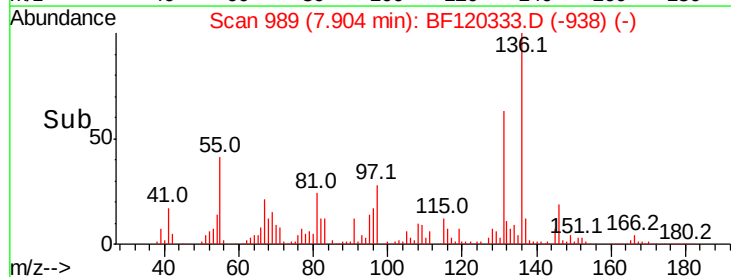
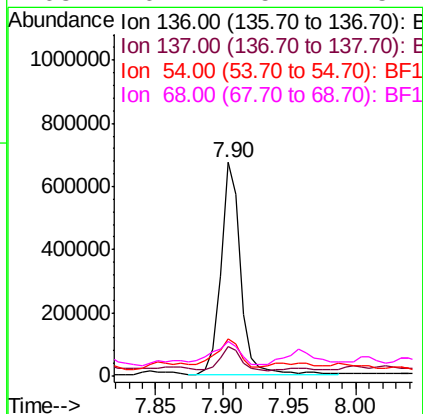
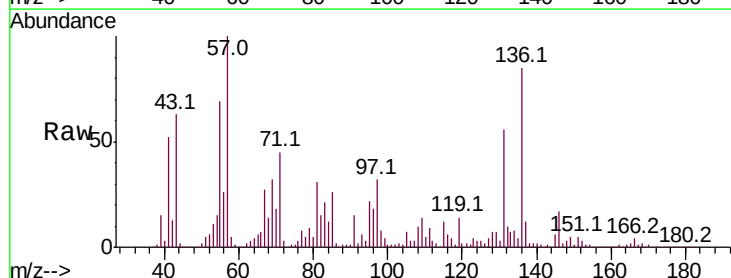
Ion Ratio Lower Upper

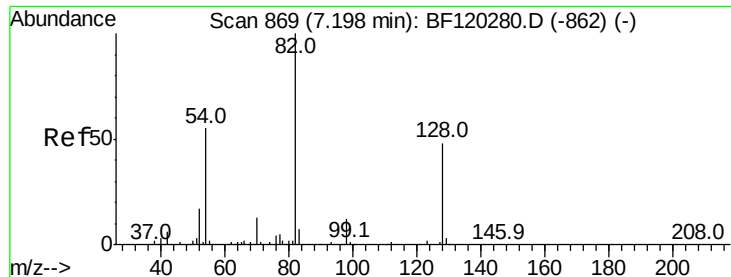
136 100

137 13.8 9.1 13.7#

54 17.6 7.9 11.9#

68 16.1 5.4 8.2#

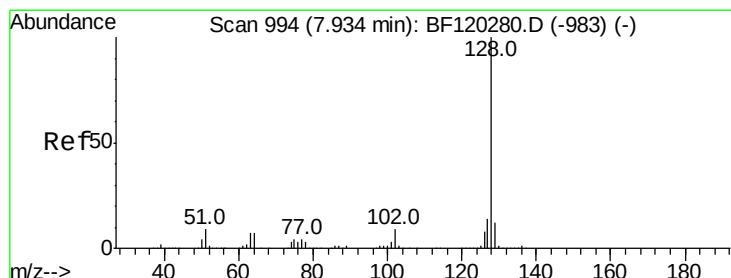
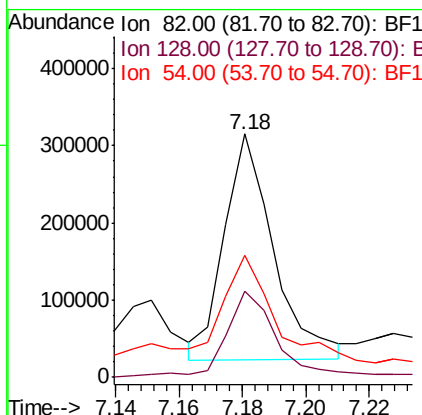
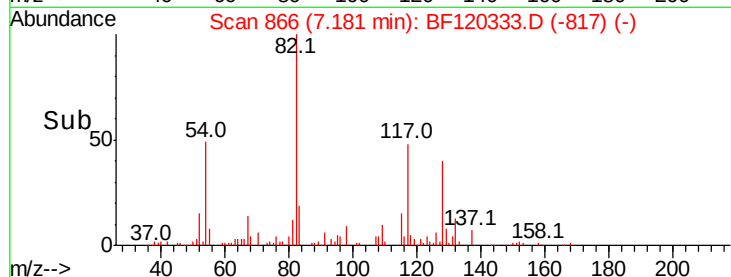
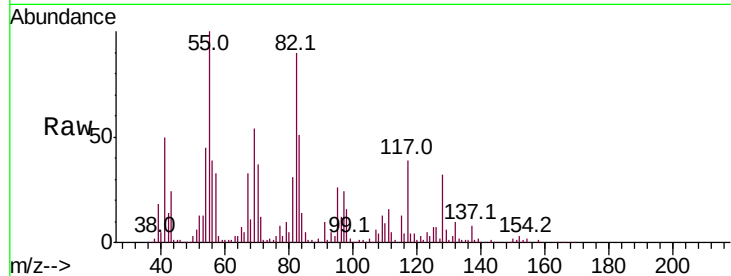




#23
Nitrobenzene-d5
Concen: 30.630 ng
RT: 7.18 min Scan# 866
Delta R.T. -0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

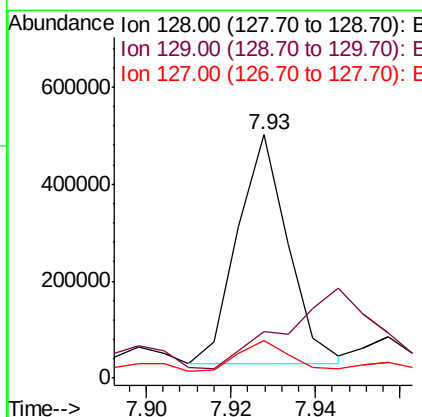
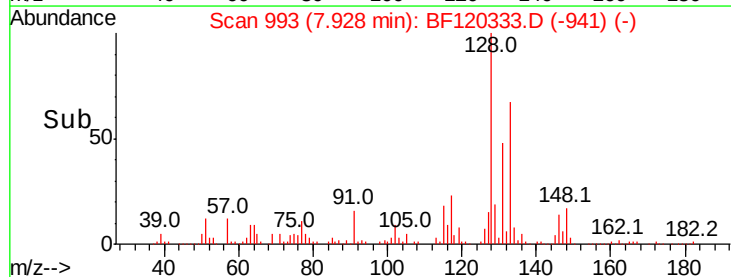
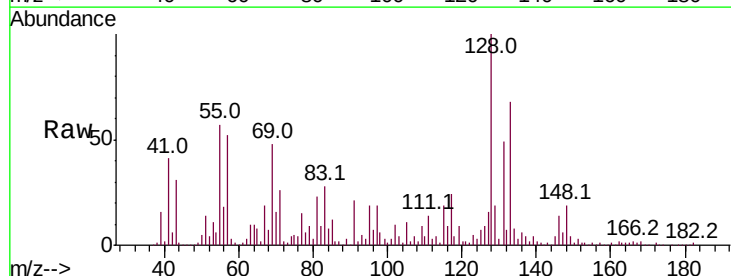
Instrument :
BNA_F
ClientSampleId :
C0F19

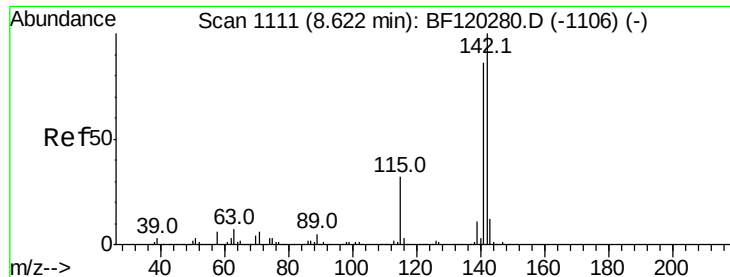
Tot Ion	Ratio	Lower	Upper
82	100		
128	35.4	38.3	57.5#
54	50.1	43.9	65.9



#31
Naphthalene
Concen: 13.309 ng
RT: 7.93 min Scan# 993
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion	Ratio	Lower	Upper
128	100		
129	18.9	9.3	13.9#
127	15.6	11.2	16.8





#37

2-Methylnaphthalene

Concen: 52.026 ng

RT: 8.63 min Scan# 1112

Delta R.T. 0.01 min

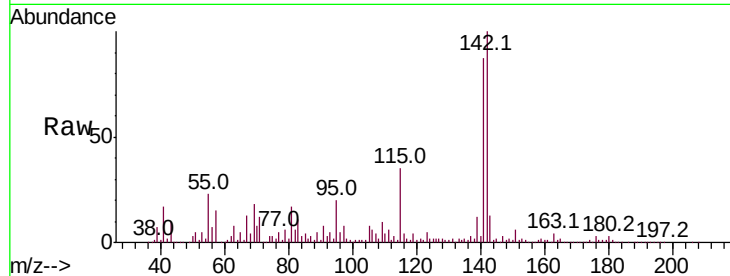
Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :
BNA_F
ClientSampled :
C0F19

Tot Ion:142 Resp: 1053435

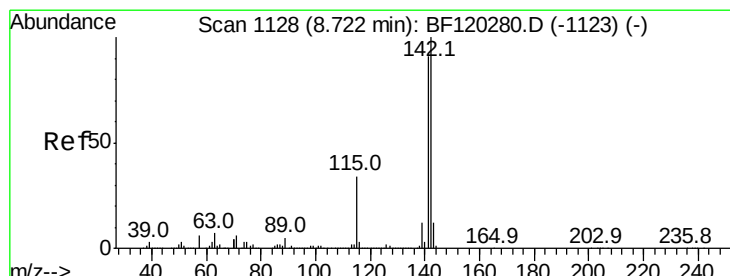
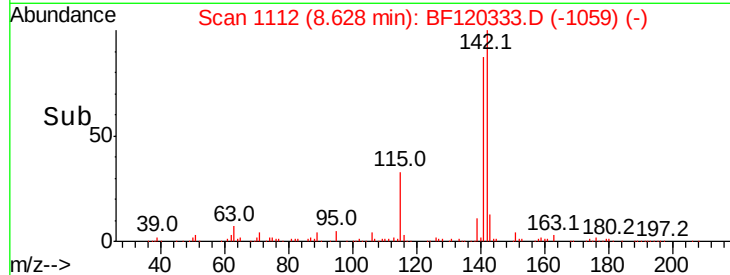
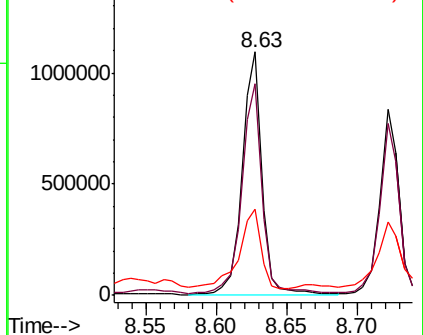
Ion	Ratio	Lower	Upper
142	100		
141	87.1	68.8	103.2
115	35.1	25.7	38.5



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



#38

1-Methylnaphthalene

Concen: 39.996 ng m

RT: 8.72 min Scan# 1128

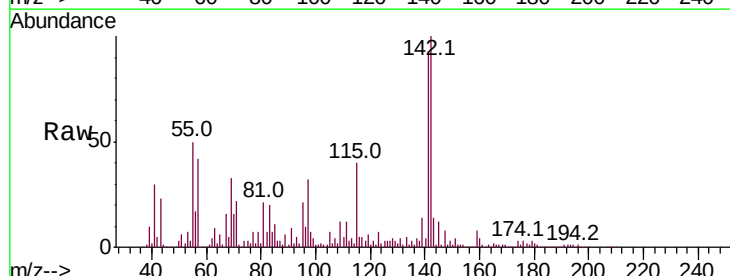
Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Tgt Ion:142 Resp: 785462

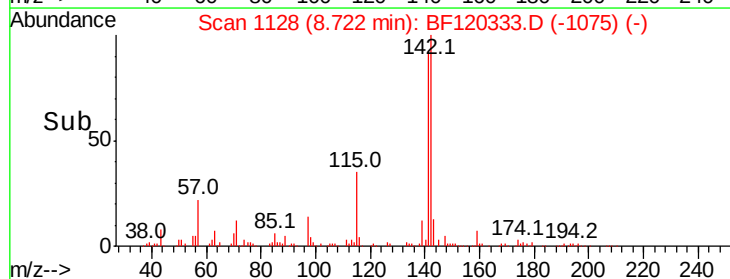
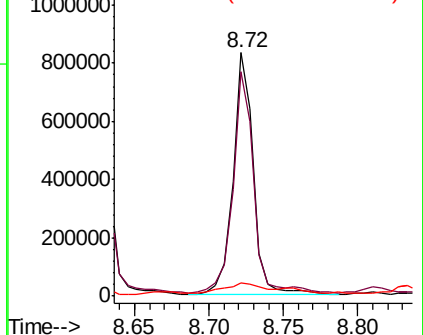
Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.0	109.6
116	5.2	2.7	4.1#

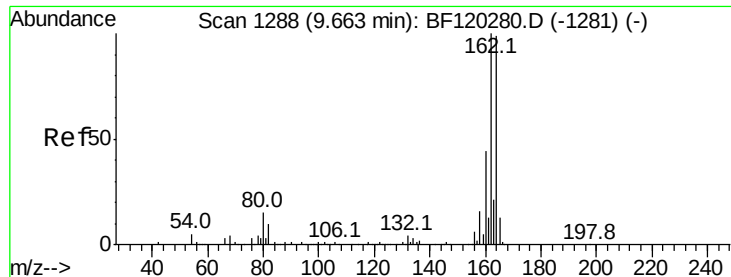


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

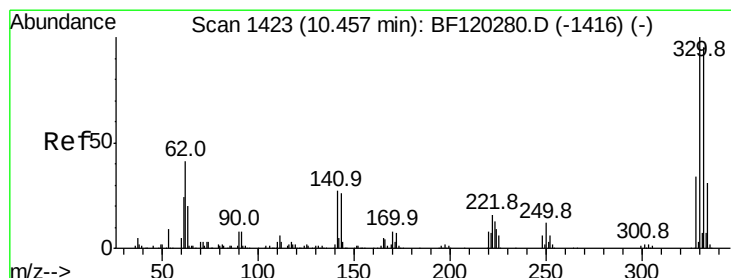
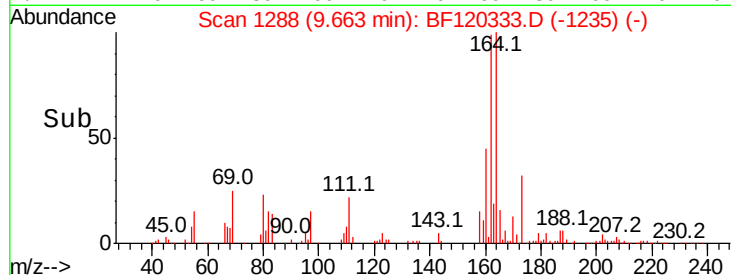
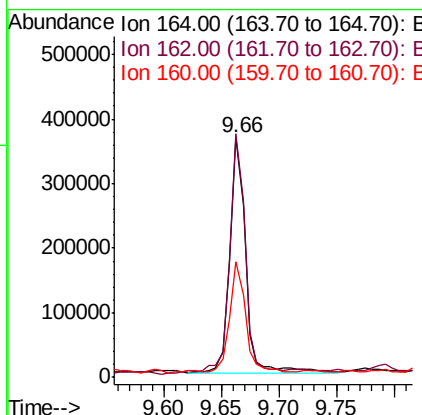
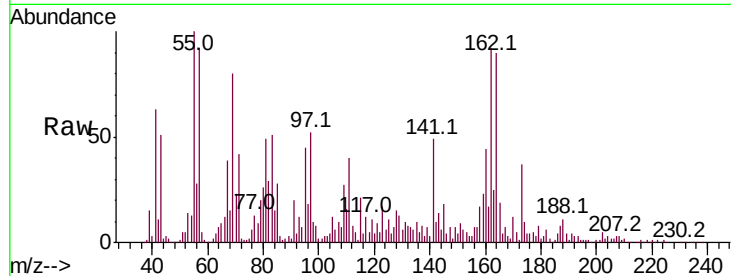




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.66 min Scan# 1288
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

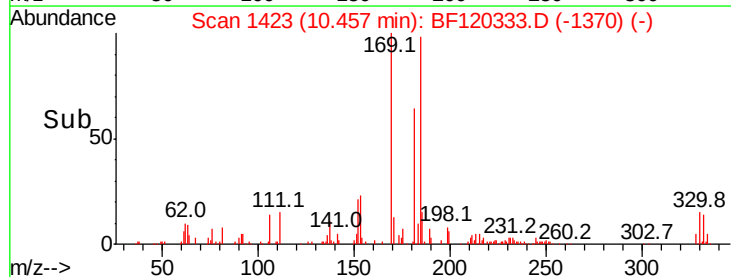
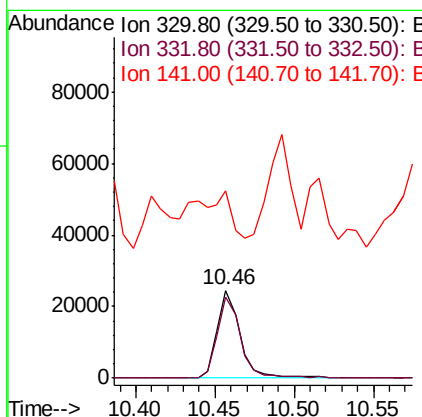
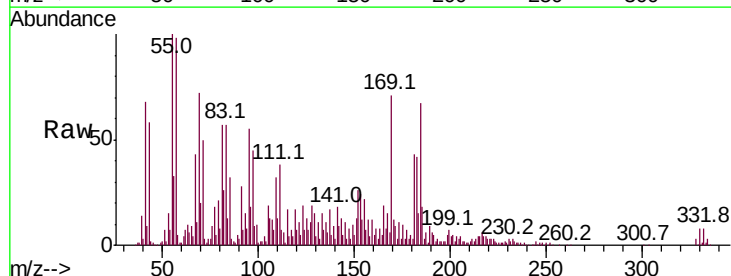
Instrument :
BNA_F
ClientSampleId :
C0F19

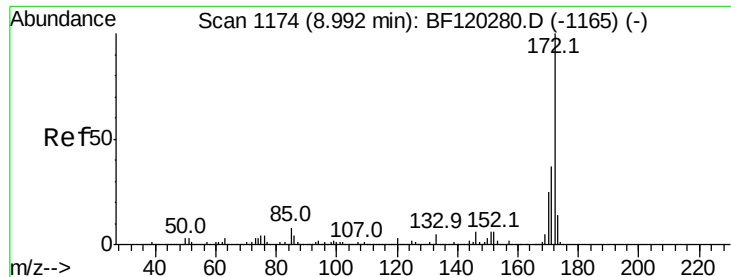
Tot Ion:164 Resp: 341500
Ion Ratio Lower Upper
164 100
162 101.7 81.2 121.8
160 48.2 35.8 53.6



#42
2,4,6-Tribromophenol
Concen: 8.942 ng
RT: 10.46 min Scan# 1423
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion:330 Resp: 24898
Ion Ratio Lower Upper
330 100
332 93.3 76.5 114.7
141 75.4 25.4 38.0#

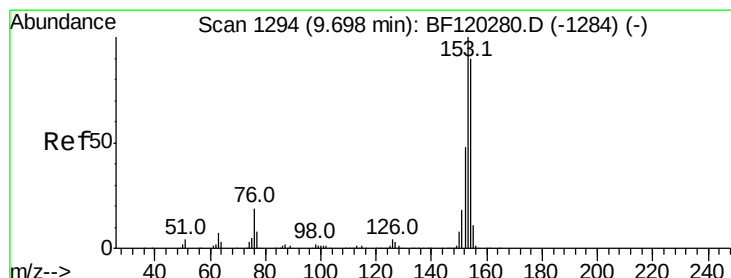
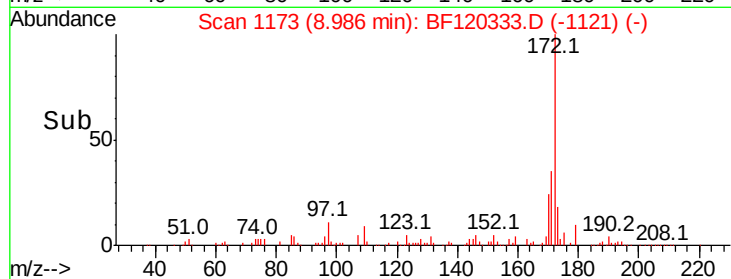
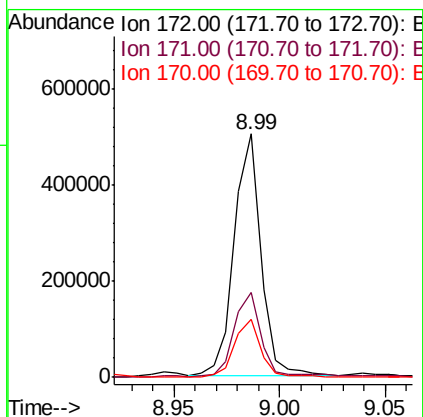
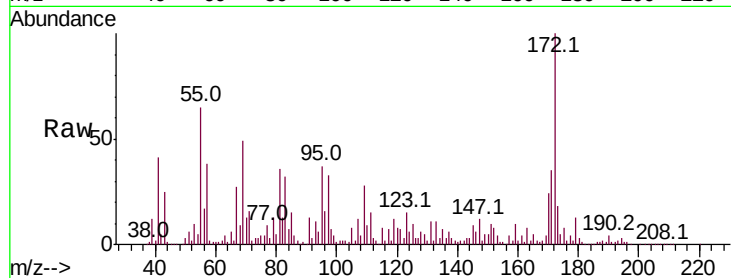




#45
2-Fluorobiphenyl
Concen: 26.396 ng
RT: 8.99 min Scan# 1173
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

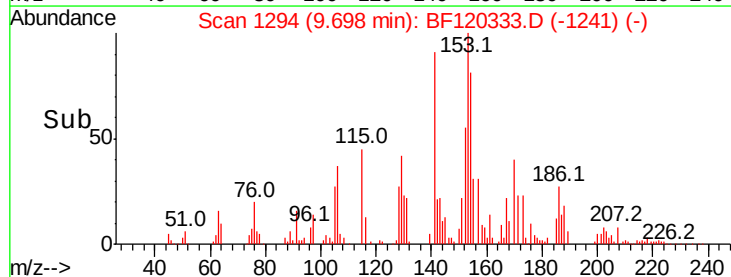
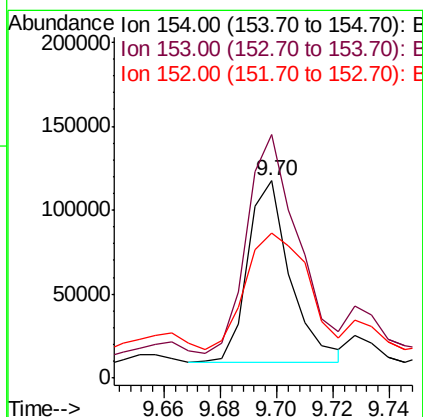
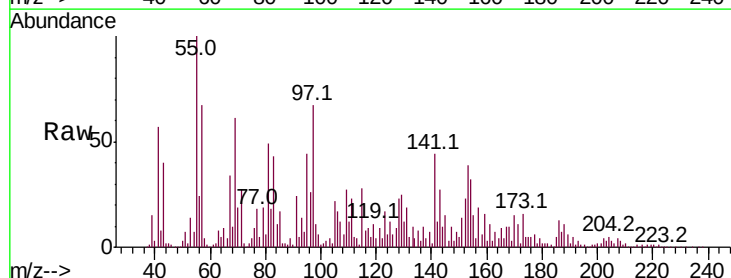
Instrument :
BNA_F
ClientSampleId :
C0F19

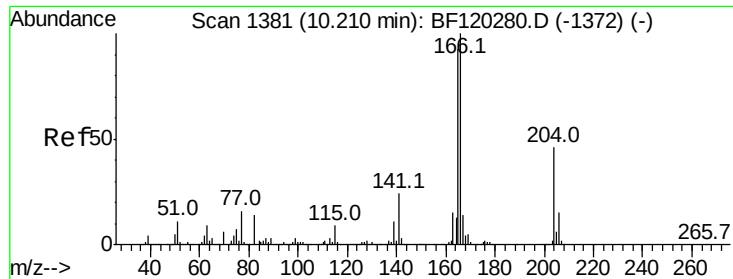
Tot Ion:172 Resp: 438756
Ion Ratio Lower Upper
172 100
171 35.1 29.7 44.5
170 23.9 19.9 29.9



#52
Acenaphthene
Concen: 6.875 ng
RT: 9.70 min Scan# 1294
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion:154 Resp: 112986
Ion Ratio Lower Upper
154 100
153 123.5 89.0 133.4
152 73.3 42.6 64.0#





#58

Fluorene

Concen: 15.243 ng

RT: 10.22 min Scan# 1382

Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

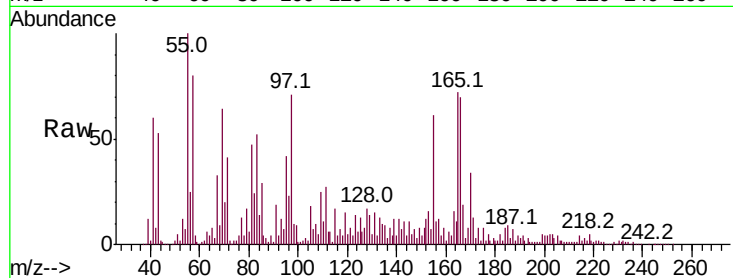
Tot Ion:166 Resp: 274737

Ion Ratio Lower Upper

166 100

165 102.9 74.7 112.1

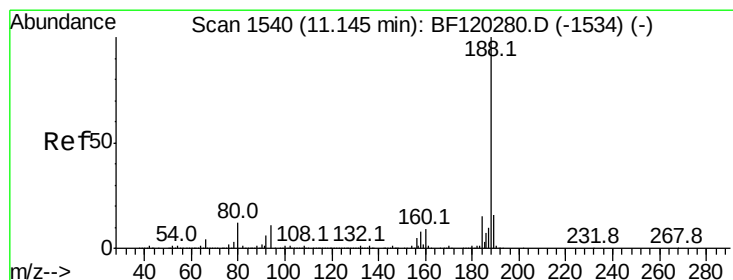
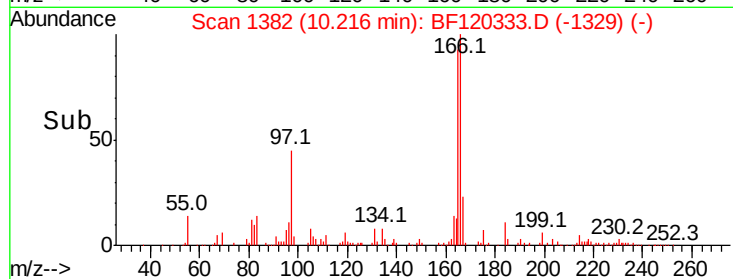
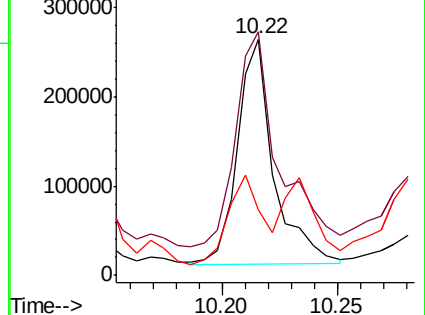
167 27.7 11.4 17.0#



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: 11.15 min Scan# 1541

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

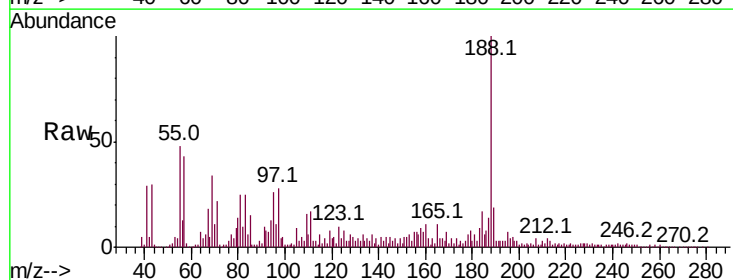
Tgt Ion:188 Resp: 552552

Ion Ratio Lower Upper

188 100

94 12.8 8.6 13.0

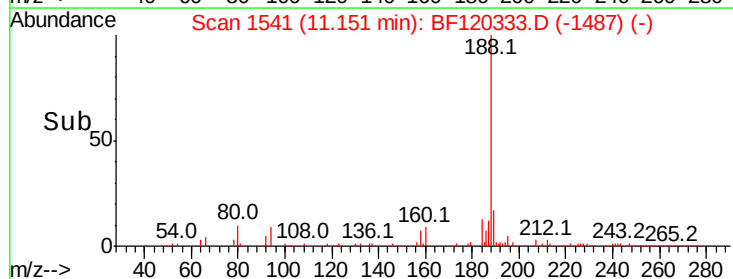
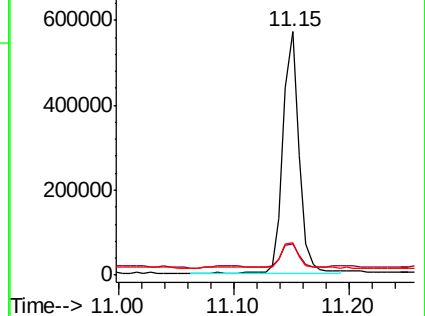
80 13.5 9.2 13.8

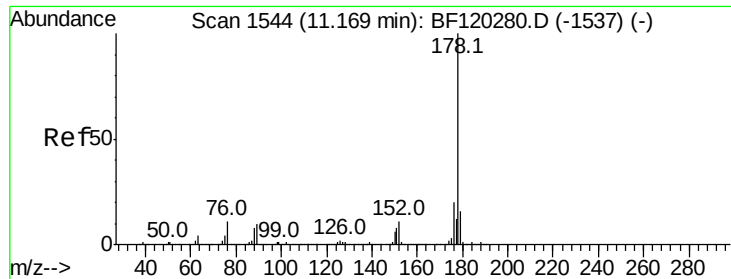


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 60.051 ng

RT: 11.17 min Scan# 1545

Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

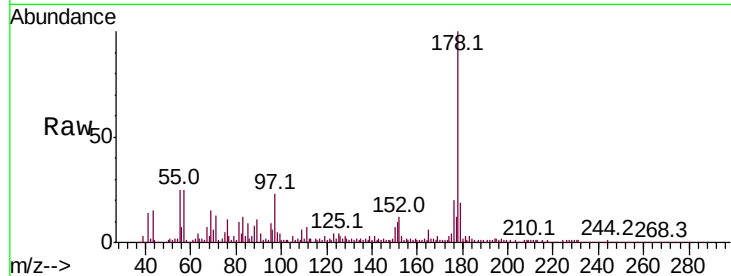
Tot Ion:178 Resp: 1394287

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

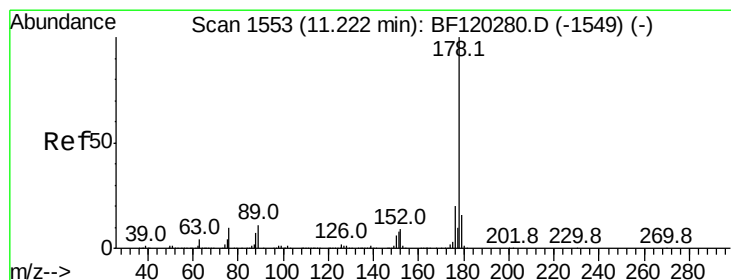
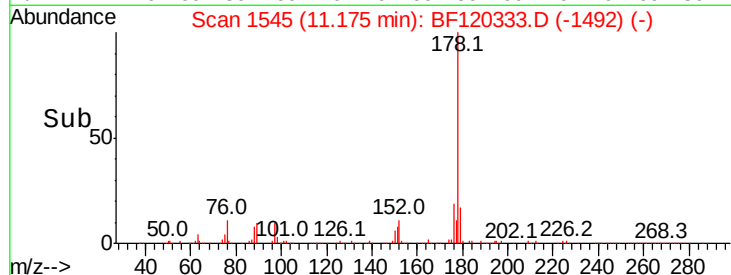
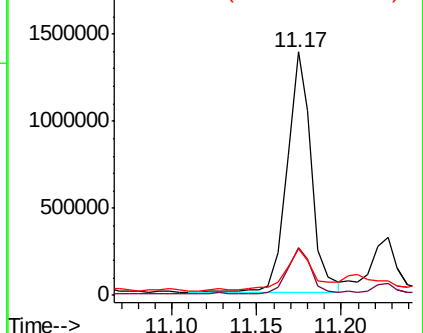
179 19.1 12.8 19.2



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



#72

Anthracene

Concen: 11.150 ng m

RT: 11.23 min Scan# 1554

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

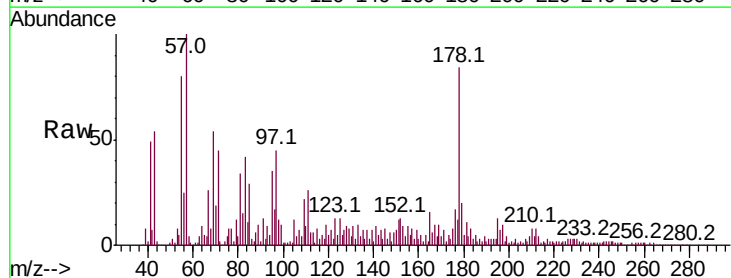
Tgt Ion:178 Resp: 277151

Ion Ratio Lower Upper

178 100

176 19.9 15.7 23.5

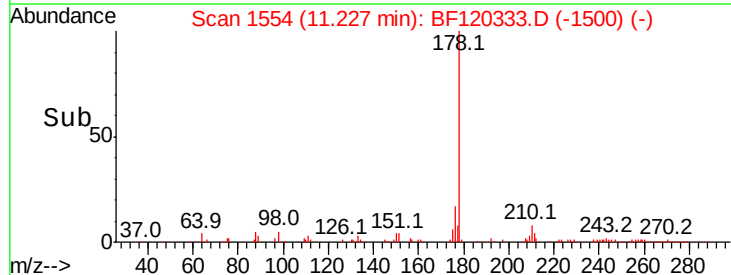
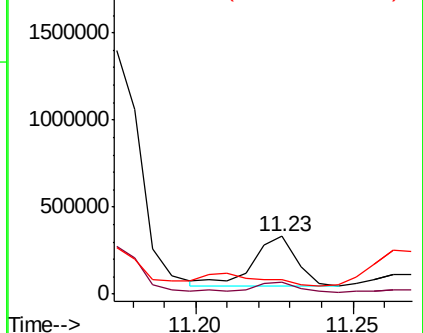
179 24.2 13.0 19.6#

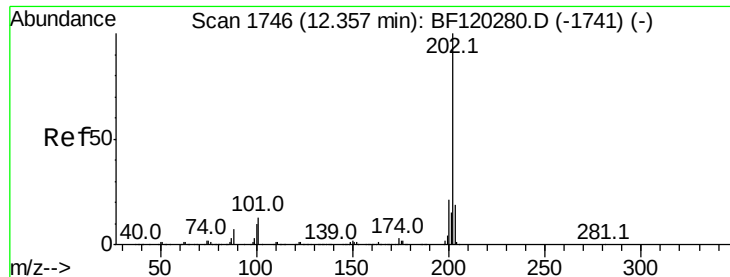


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 29.555 ng

RT: 12.36 min Scan# 1747

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

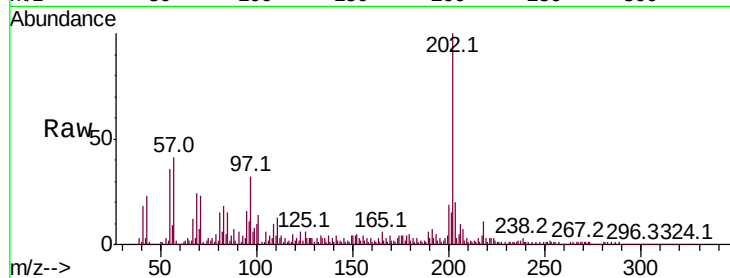
Tot Ion:202 Resp: 735497

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

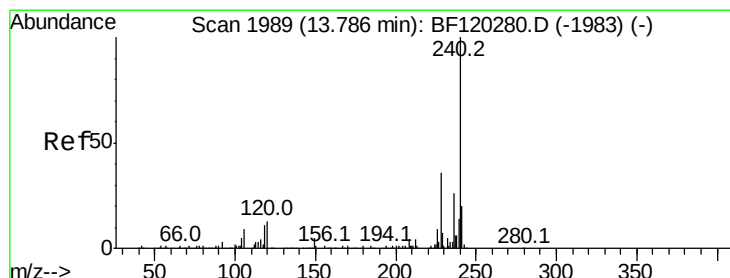
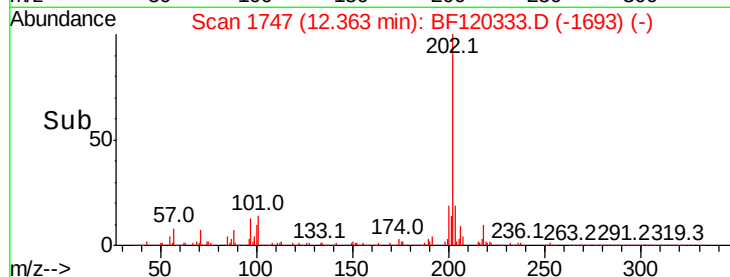
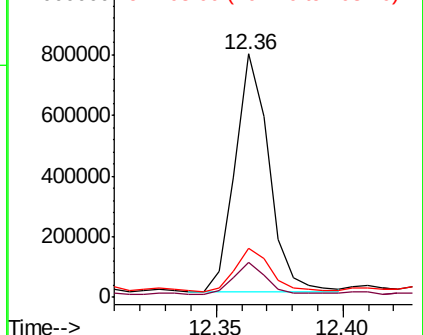
203 20.2 0.0 39.1



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: 13.79 min Scan# 1989

Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

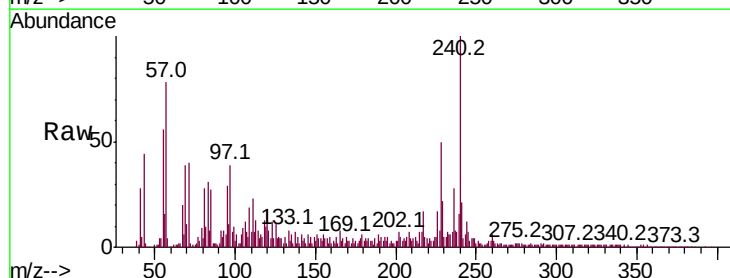
Tgt Ion:240 Resp: 385303

Ion Ratio Lower Upper

240 100

120 17.6 10.4 15.6#

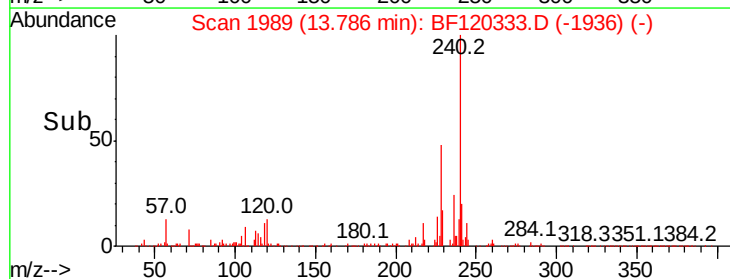
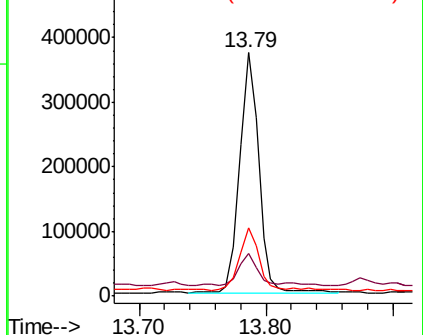
236 27.9 21.0 31.6

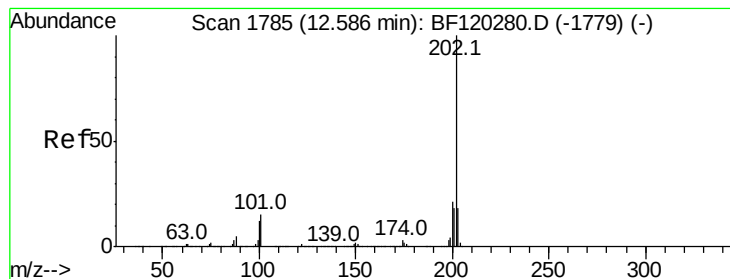


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 35.362 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

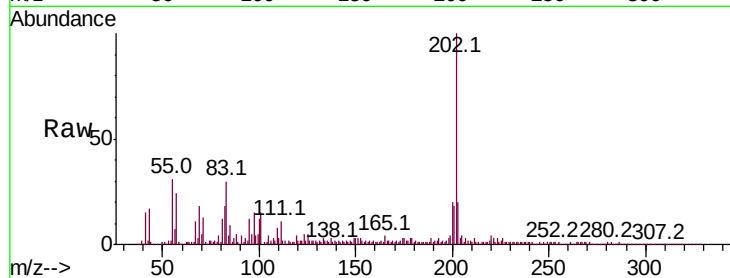
Tot Ion:202 Resp: 971342

Ion Ratio Lower Upper

202 100

200 19.8 16.6 25.0

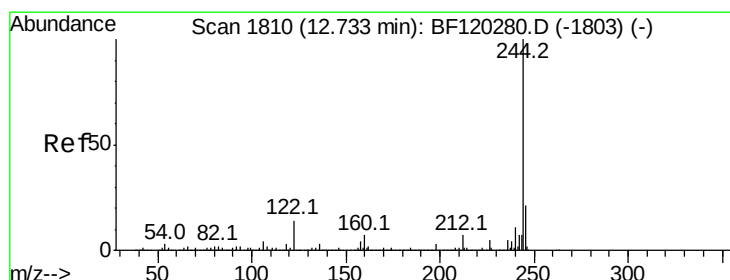
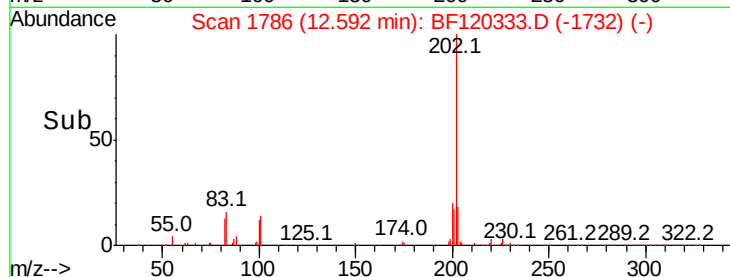
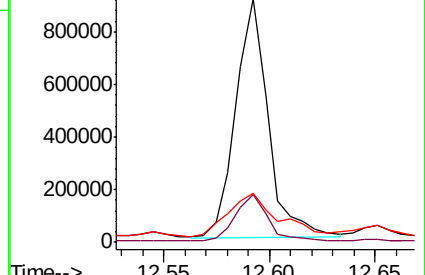
203 20.4 14.6 22.0



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: 18.346 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.01 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

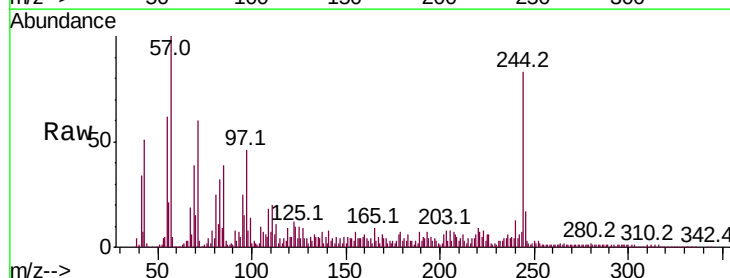
Tgt Ion:244 Resp: 319968

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.6

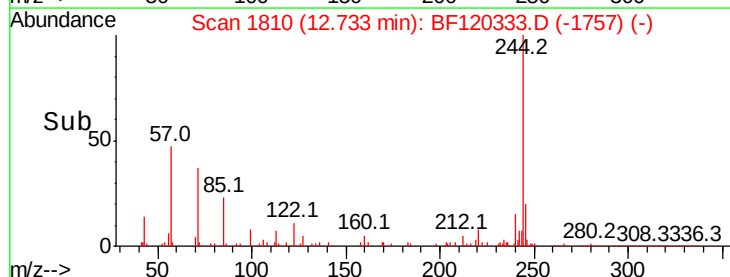
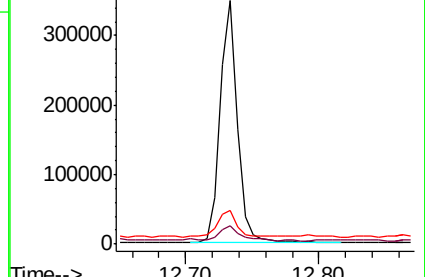
122 13.9 10.8 16.2

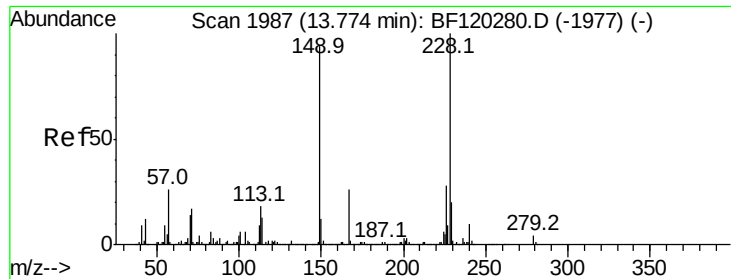


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

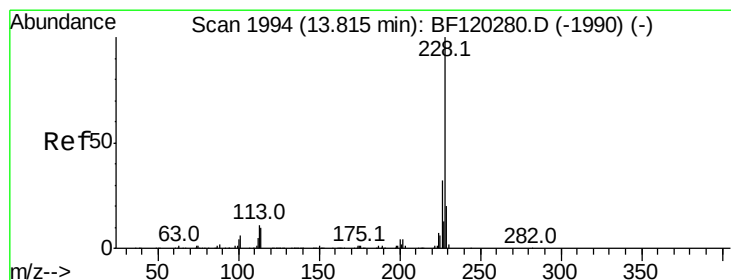
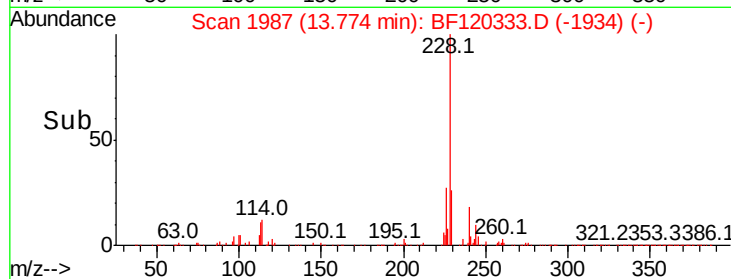
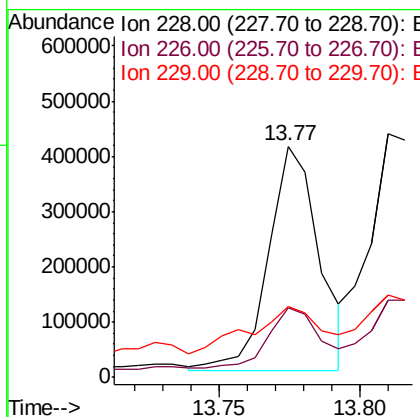
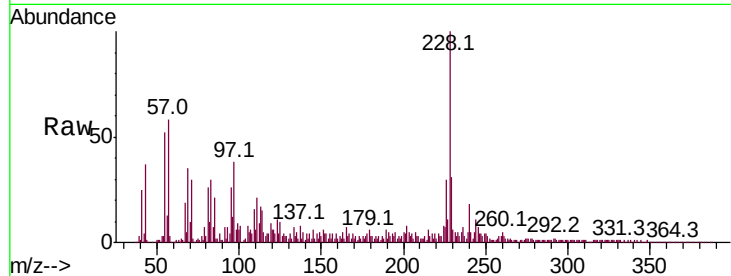




#81
Benzo(a)anthracene
Concen: 25.093 ng
RT: 13.77 min Scan# 1987
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

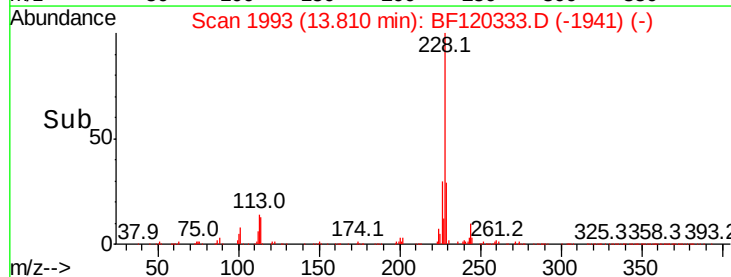
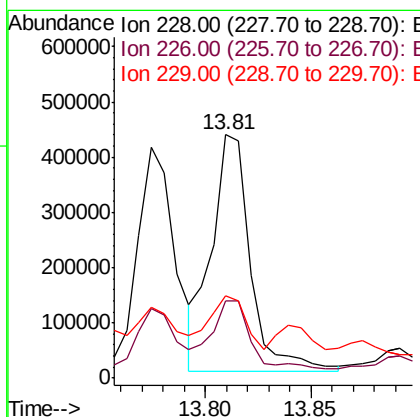
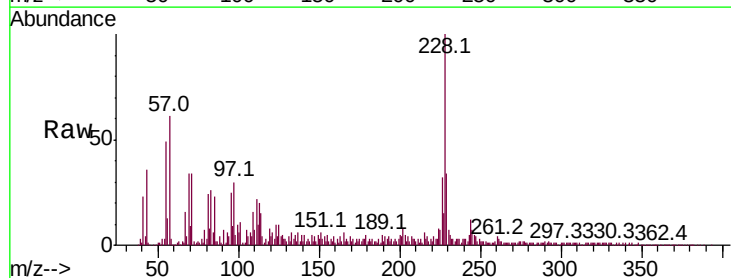
Instrument :
BNA_F
ClientSampled :
C0F19

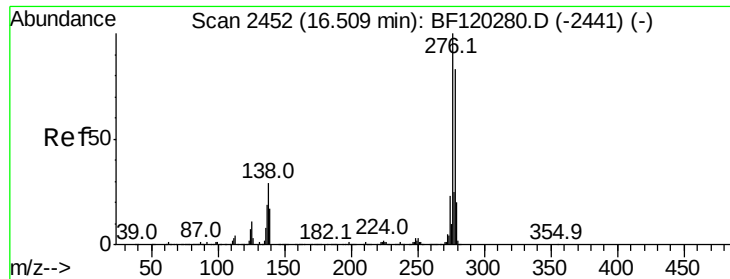
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.6	33.8
229	30.7	16.4	24.6



#83
Chrysene
Concen: 25.419 ng
RT: 13.81 min Scan# 1993
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.0	37.6
229	33.9	16.2	24.4





#86

Indeno(1,2,3-cd)pyrene

Concen: 8.804 ng

RT: 16.51 min Scan# 2452

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

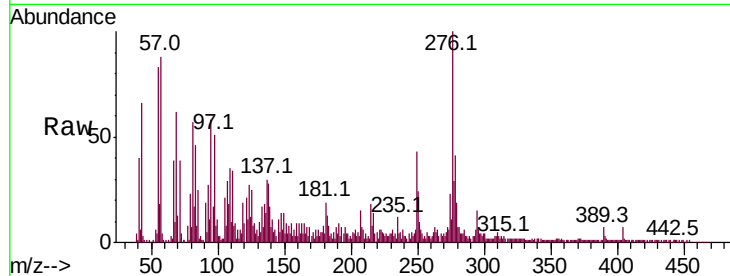
Tot Ion:276 Resp: 174378

Ion Ratio Lower Upper

276 100

138 24.3 23.3 34.9

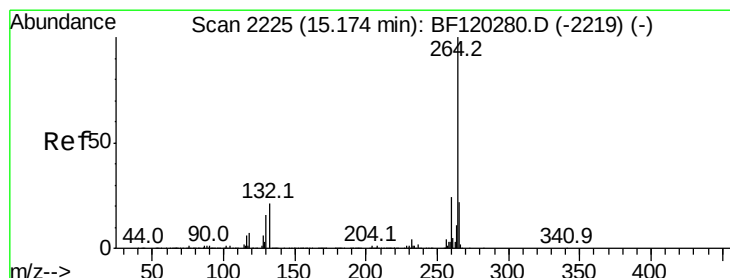
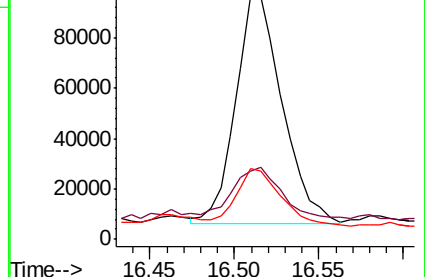
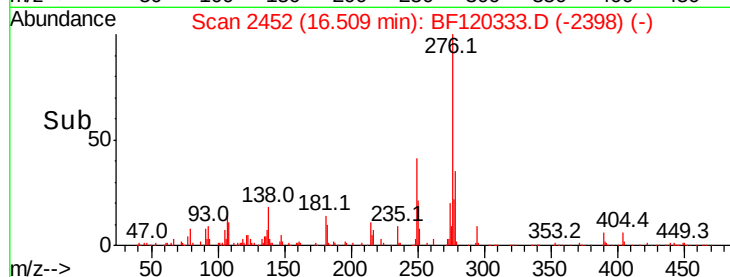
277 23.9 20.2 30.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.02 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

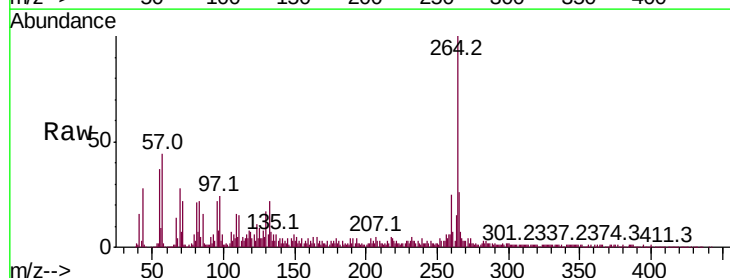
Tgt Ion:264 Resp: 467891

Ion Ratio Lower Upper

264 100

260 25.0 19.0 28.6

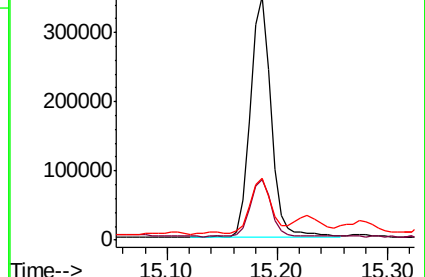
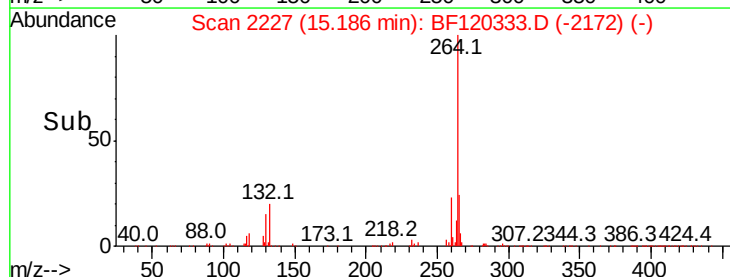
265 25.6 17.5 26.3

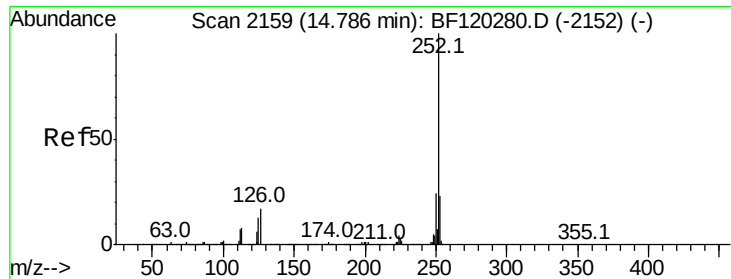


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

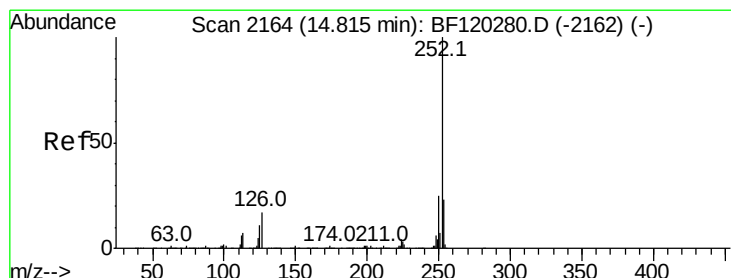
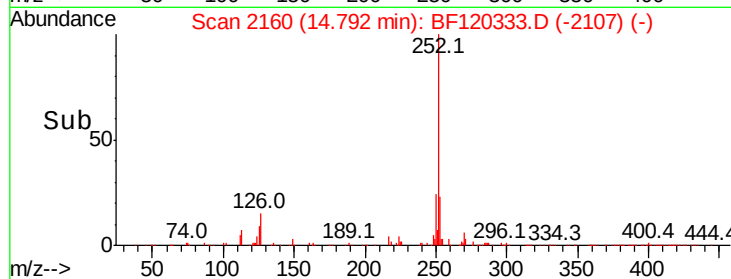
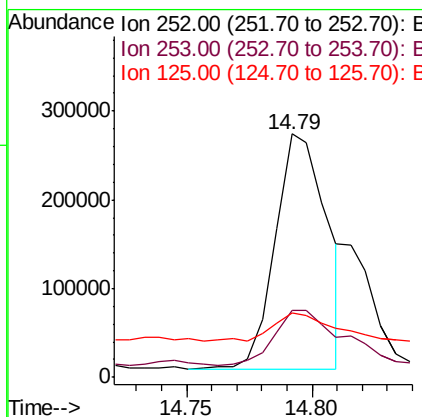
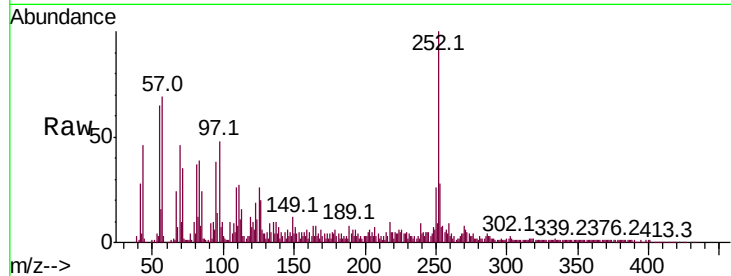




#88
Benzo(b)fluoranthene
Concen: 14.890 ng m
RT: 14.79 min Scan# 2160
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

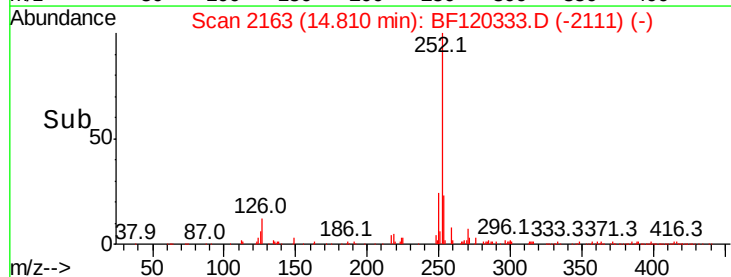
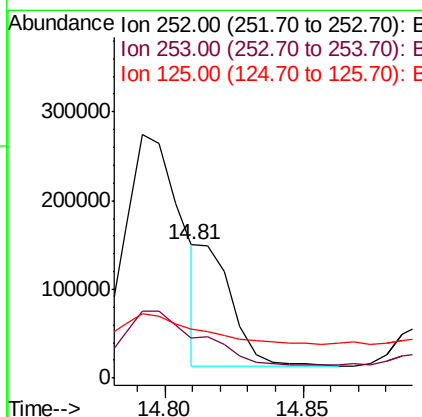
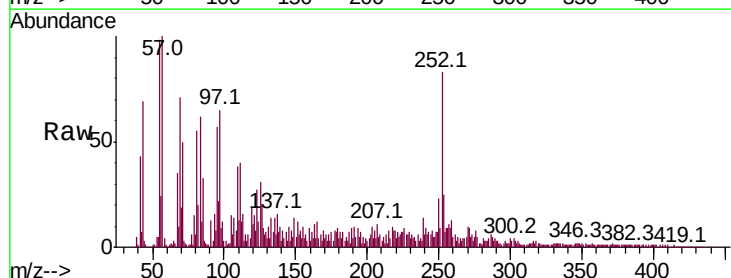
Instrument :
BNA_F
ClientSampleId :
C0F19

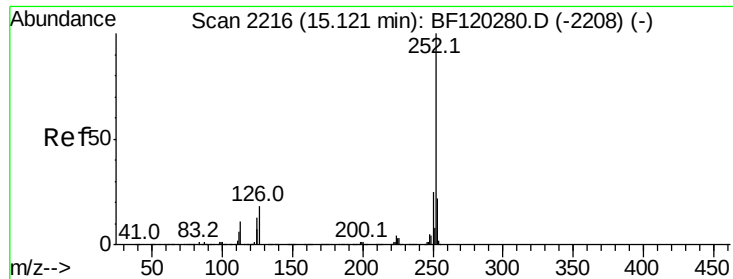
Tot Ion:252 Resp: 380472
Ion Ratio Lower Upper
252 100
253 27.6 18.1 27.1#
125 26.4 10.4 15.6#



#89
Benzo(k)fluoranthene
Concen: 5.026 ng m
RT: 14.81 min Scan# 2163
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion:252 Resp: 111264
Ion Ratio Lower Upper
252 100
253 30.6 18.2 27.2#
125 37.3 9.9 14.9#

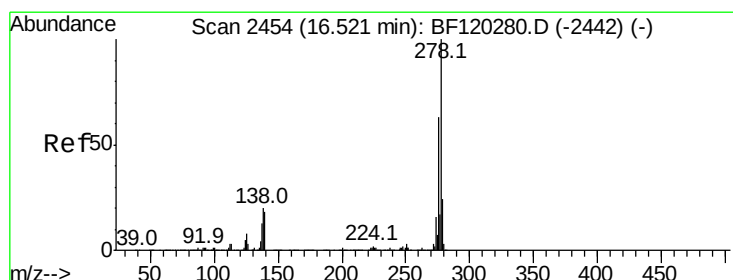
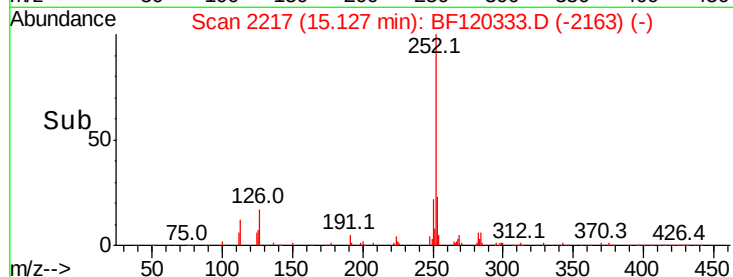
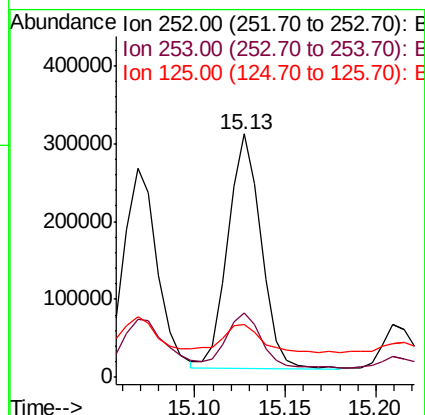
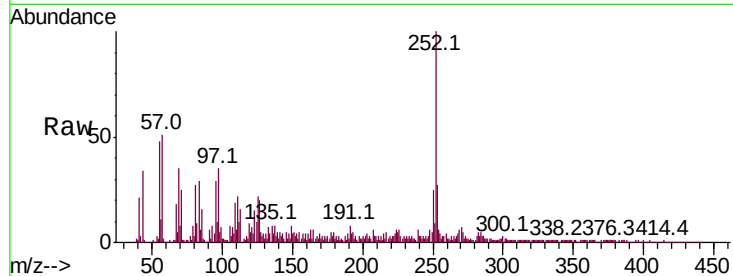




#90
Benzo(a)pyrene
Concen: 16.776 ng
RT: 15.13 min Scan# 2217
Delta R.T. 0.02 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

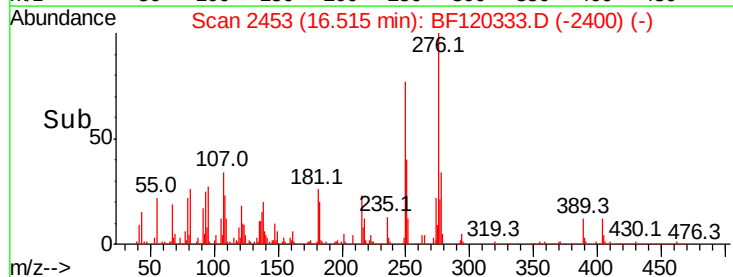
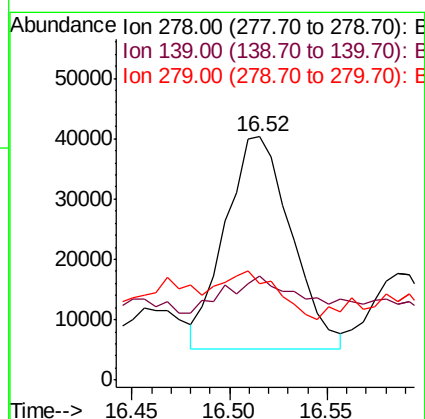
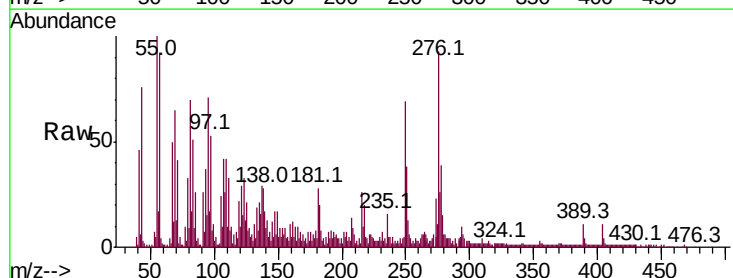
Instrument :
BNA_F
ClientSampleId :
C0F19

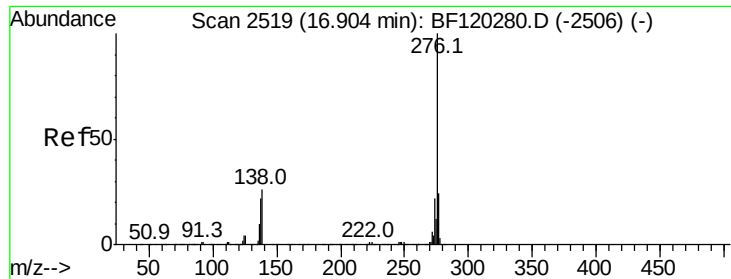
Tot Ion:252 Resp: 384448
Ion Ratio Lower Upper
252 100
253 26.7 17.6 26.4#
125 21.8 10.6 16.0#



#91
Dibenzo(a,h)anthracene
Concen: 4.046 ng
RT: 16.52 min Scan# 2453
Delta R.T. 0.01 min
Lab File: BF120333.D
Acq: 15 May 2020 20:39

Tgt Ion:278 Resp: 82148
Ion Ratio Lower Upper
278 100
139 42.6 14.7 22.1#
279 39.4 19.2 28.8#





#92

Benzo(a,h,i)perylene

Concen: 10.912 ng

RT: 16.92 min Scan# 2522

Delta R.T. 0.04 min

Lab File: BF120333.D

Acq: 15 May 2020 20:39

Instrument :

BNA_F

ClientSampleId :

C0F19

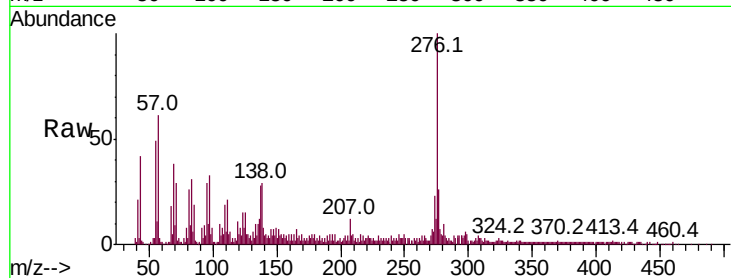
Tot Ion:276 Resp: 223382

Ion Ratio Lower Upper

276 100

277 26.0 19.1 28.7

138 29.4 20.8 31.2



Abundance Ion 276.00 (275.70 to 276.70): E

150000 Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

