

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051820\
 Data File : BF120352.D
 Acq On : 18 May 2020 20:01
 Operator : MA/SJ
 Sample : L2663-04DL 25X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 19 00:24:01 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051420.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 18 15:23:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	238980	20.00	ng	0.00
21) Naphthalene-d8	7.89	136	1013449	20.00	ng	0.00
39) Acenaphthene-d10	9.64	164	520344	20.00	ng	0.00
64) Phenanthrene-d10	11.13	188	880122	20.00	ng	0.00
76) Chrysene-d12	13.76	240	516088	20.00	ng	0.00
87) Perylene-d12	15.14	264	517169	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.22	112	39913	3.25	ng	0.01
7) Phenol-d6	6.26	99	57301	3.69	ng	0.00
23) Nitrobenzene-d5	7.17	82	44396	3.00	ng	0.00
42) 2,4,6-Tribromophenol	10.43	330	17072	4.02	ng	0.00
45) 2-Fluorobiphenyl	8.96	172	91228	3.60	ng	0.00
79) Terphenyl-d14	12.71	244	89592	3.84	ng	0.00

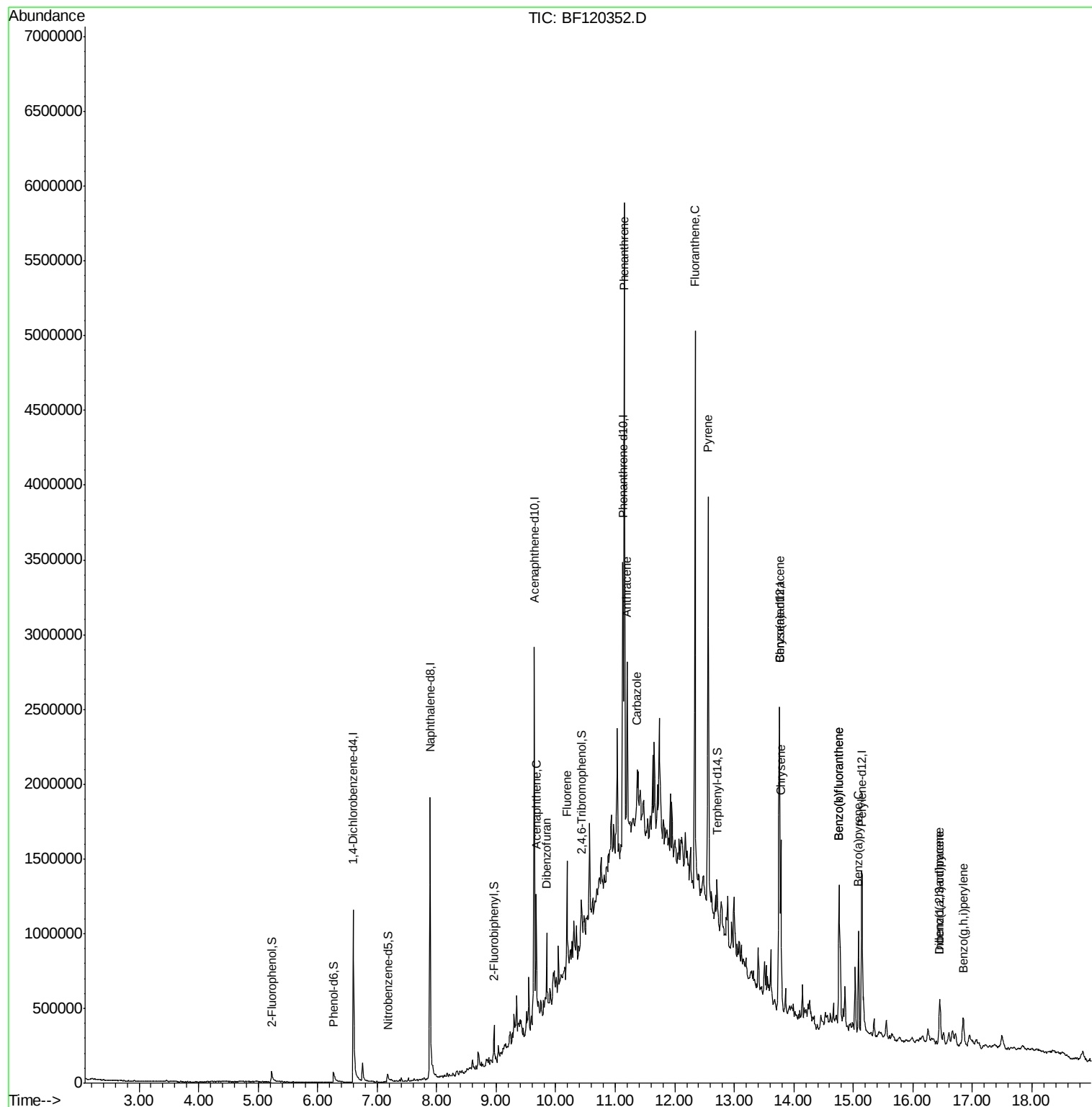
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
52) Acenaphthene	9.67	154	181325	7.241	ng	98
55) Dibenzofuran	9.85	168	180664	5.010	ng	97
58) Fluorene	10.19	166	208065	7.576	ng	100
71) Phenanthrene	11.15	178	1698892	45.937	ng	99
72) Anthracene	11.20	178	574920	14.521	ng	97
73) Carbazole	11.36	167	135277	3.657	ng	# 94
75) Fluoranthene	12.34	202	1634474	41.234	ng	98
78) Pyrene	12.56	202	1296108	35.228	ng	99
81) Benzo(a)anthracene	13.75	228	543654	19.972	ng	98
83) Chrysene	13.78	228	504713	17.267	ng	97
86) Indeno(1,2,3-cd)pyrene	16.45	276	172476	6.501	ng	96
88) Benzo(b)fluoranthene	14.76	252	632024	22.377	ng	100
89) Benzo(k)fluoranthene	14.76	252	632024	25.829	ng	99
90) Benzo(a)pyrene	15.09	252	331616	13.092	ng	100
91) Dibenzo(a,h)anthracene	16.46	278	57126	2.546	ng	92
92) Benzo(g,h,i)perylene	16.84	276	152264	6.729	ng	97

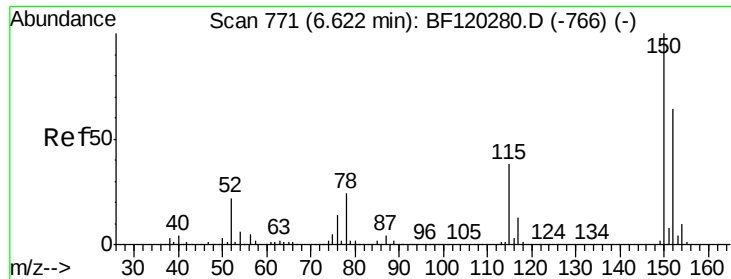
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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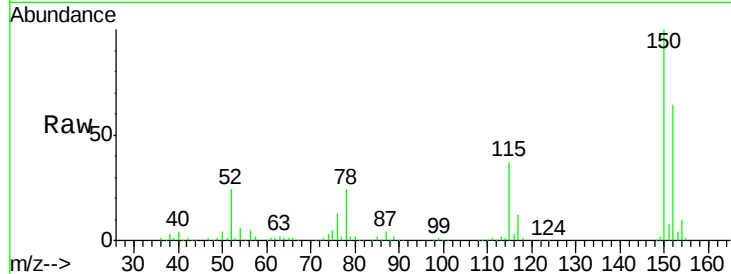


#1

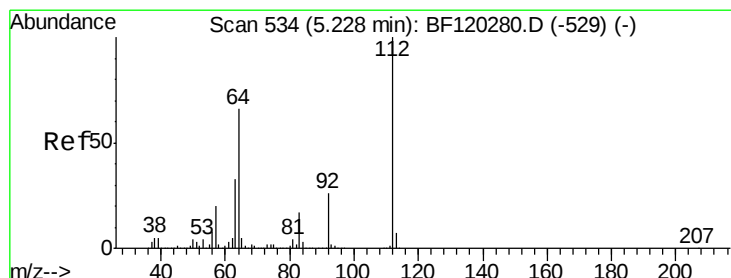
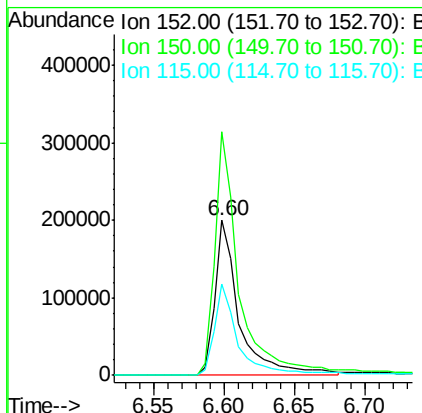
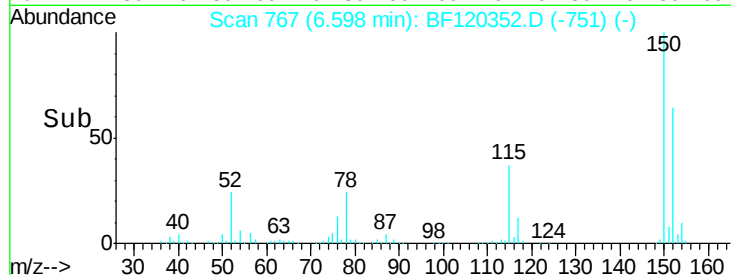
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.60 min Scan# 767
Delta R.T. -0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	58.7	47.9	71.9



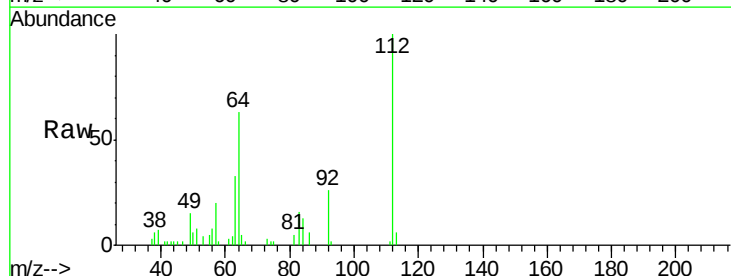
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



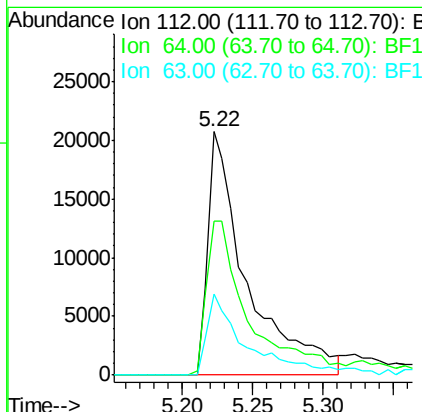
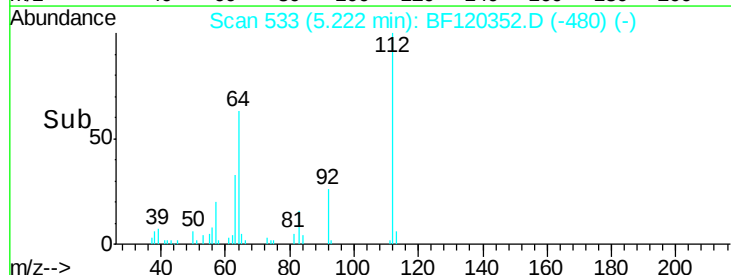
#5

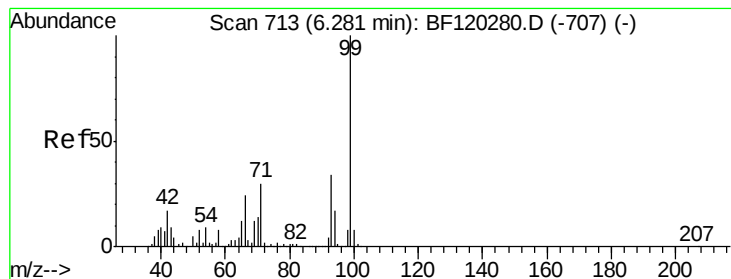
2-Fluorophenol
Concen: 3.250 ng
RT: 5.22 min Scan# 533
Delta R.T. 0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	52.7	79.1
63	33.3	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: 3.689 ng

RT: 6.26 min Scan# 710

Delta R.T. -0.00 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

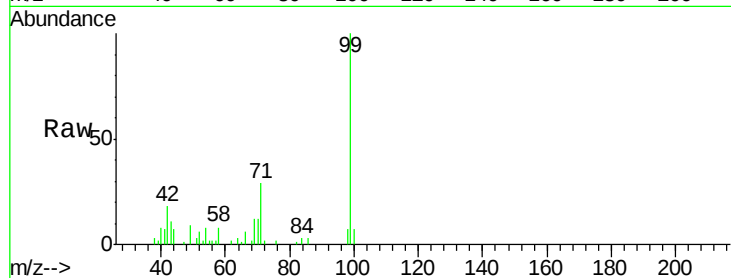
Tot Ion: 99 Resp: 57301

Ion Ratio Lower Upper

99 100

42 17.5 13.6 20.4

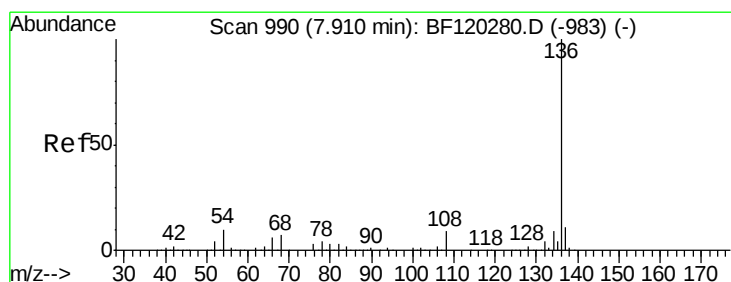
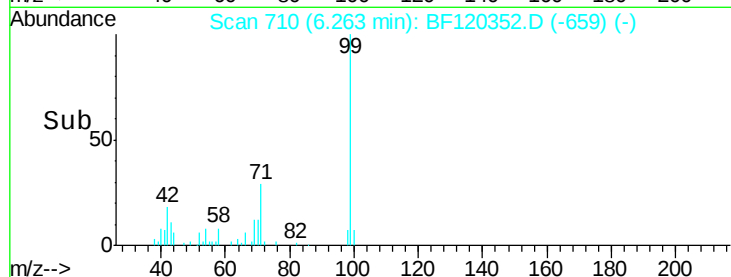
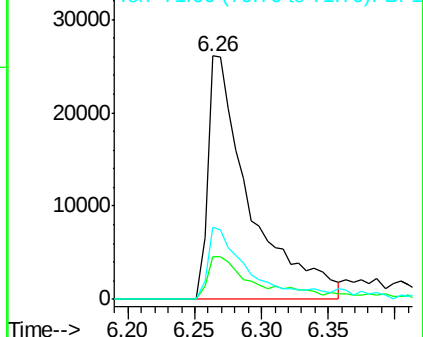
71 29.5 24.2 36.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.89 min Scan# 986

Delta R.T. -0.00 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Tgt Ion: 136 Resp: 1013449

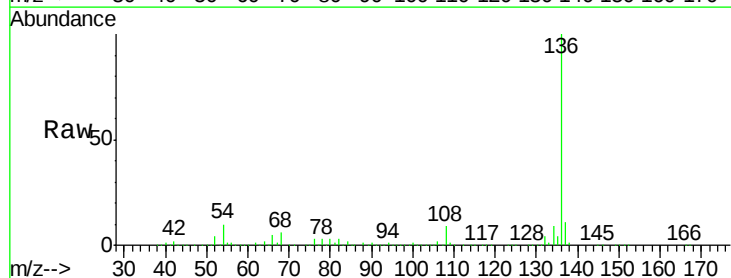
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 10.2 7.9 11.9

68 6.0 5.4 8.2

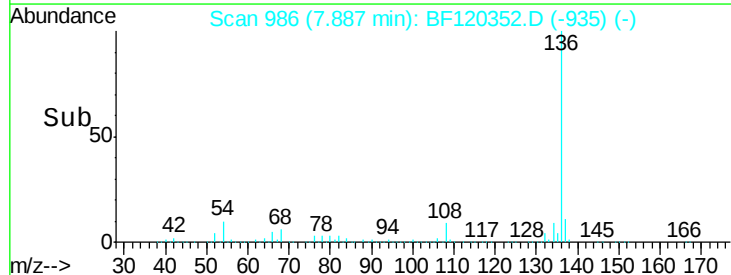
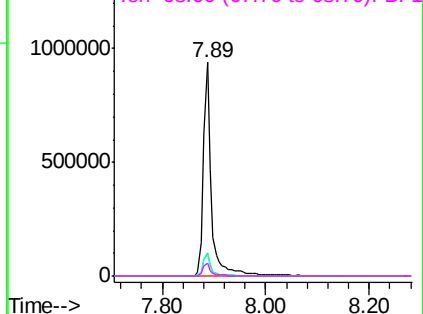


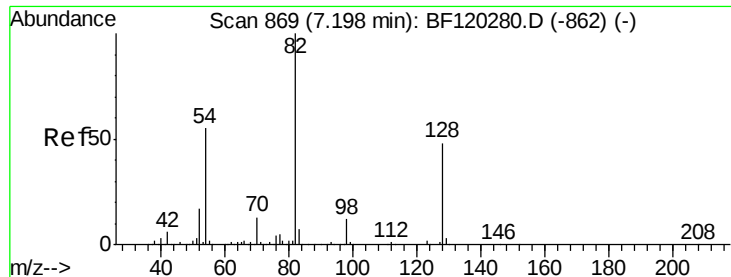
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

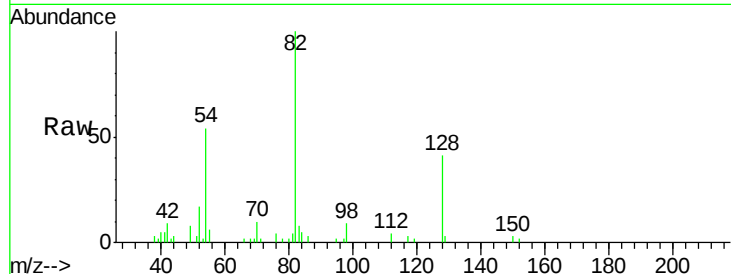




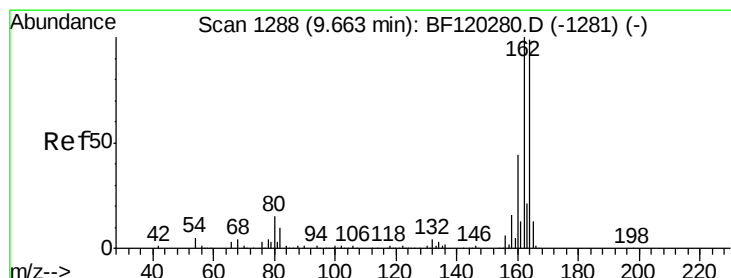
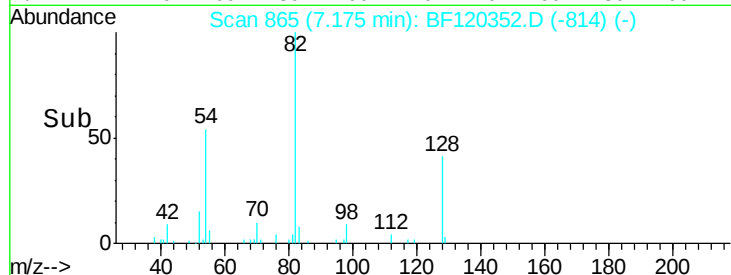
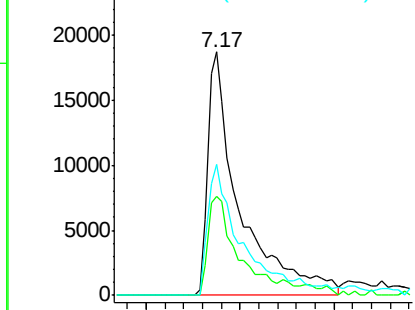
#23
Nitrobenzene-d5
Concen: 2.999 ng
RT: 7.17 min Scan# 865
Delta R.T. -0.00 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Instrument :
BNA_F
ClientSampled :

Tot Ion	82	Resp	44396
Ion Ratio	Lower	Upper	
82	100		
128	40.7	38.3	57.5
54	53.6	43.9	65.9

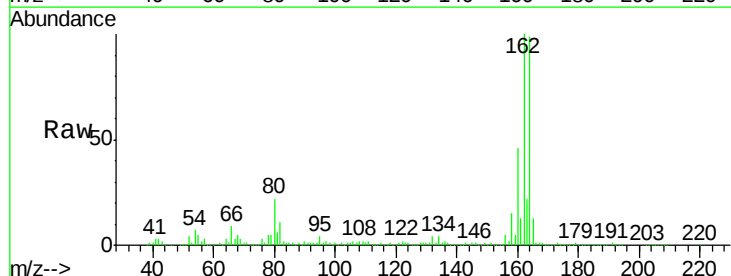


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

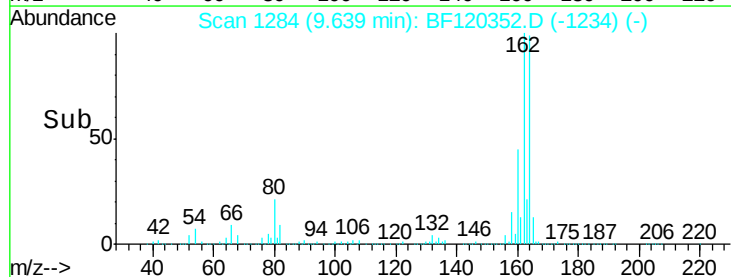
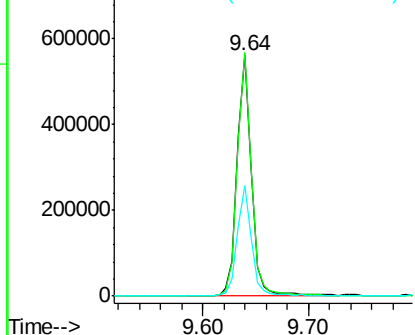


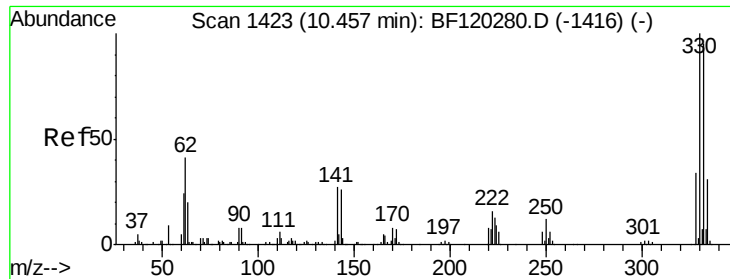
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Tgt Ion	164	Resp	520344
Ion Ratio	Lower	Upper	
164	100		
162	101.1	81.2	121.8
160	46.0	35.8	53.6



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

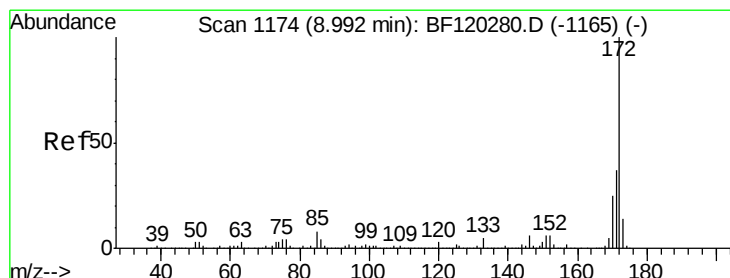
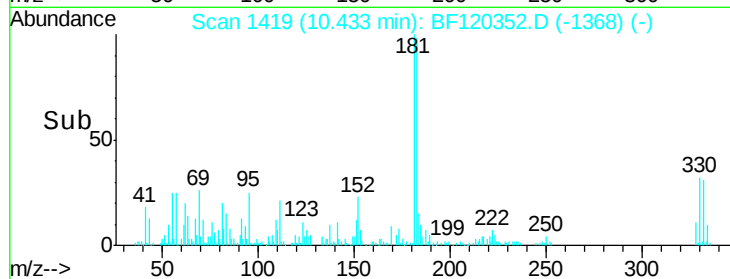
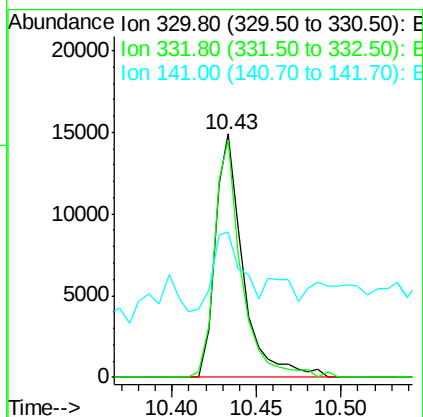
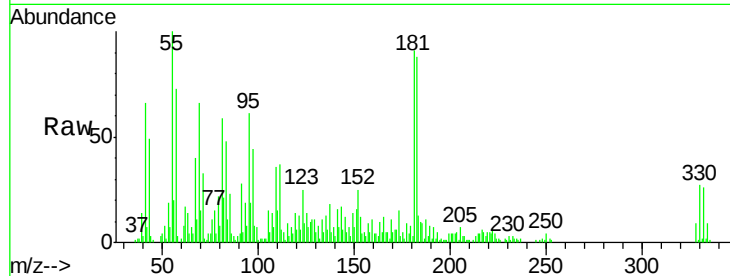




#42
 2,4,6-Tribromophenol
 Concen: 4.024 ng
 RT: 10.43 min Scan# 1419
 Delta R.T. -0.00 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

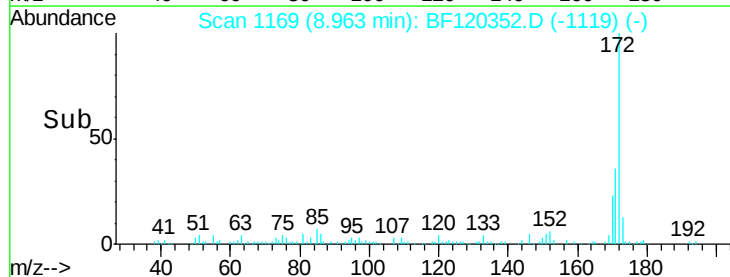
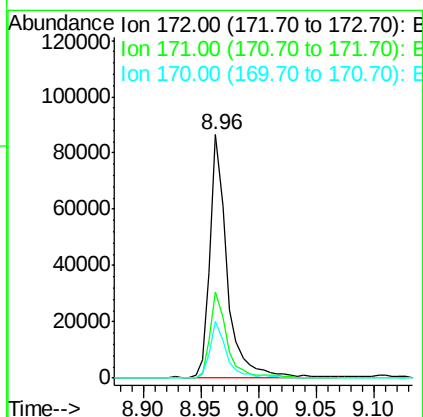
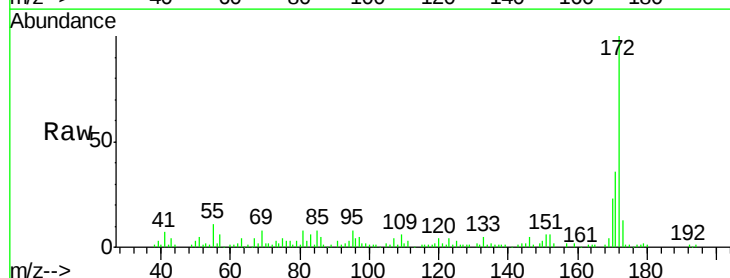
Instrument :
 BNA_F
 ClientSampleId :

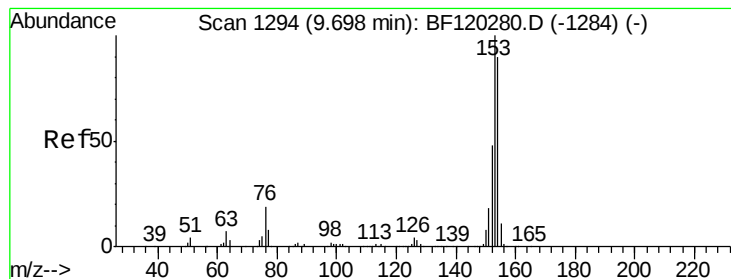
Tot Ion:330 Resp: 17072
 Ion Ratio Lower Upper
 330 100
 332 94.8 76.5 114.7
 141 34.7 25.4 38.0



#45
 2-Fluorobiphenyl
 Concen: 3.602 ng
 RT: 8.96 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

Tgt Ion:172 Resp: 91228
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.7 44.5
 170 23.1 19.9 29.9





#52

Acenaphthene

Concen: 7.241 ng

RT: 9.67 min Scan# 1289

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

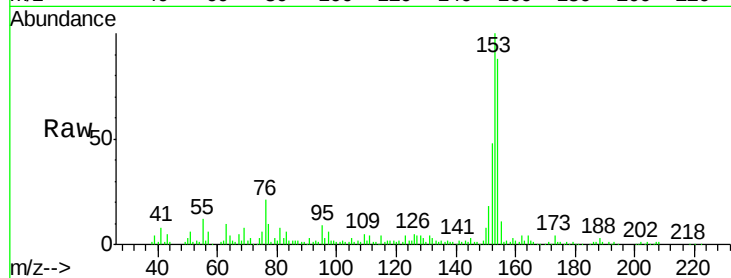
Tot Ion:154 Resp: 181325

Ion Ratio Lower Upper

154 100

153 113.0 89.0 133.4

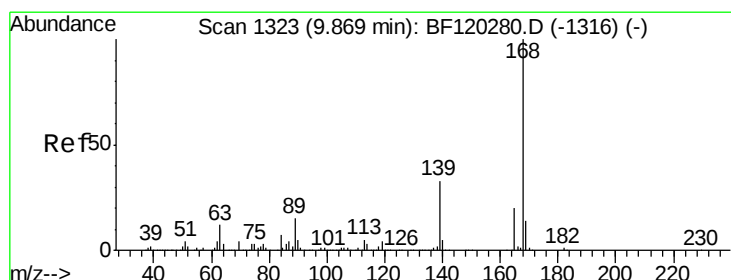
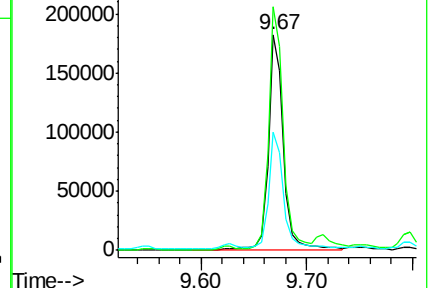
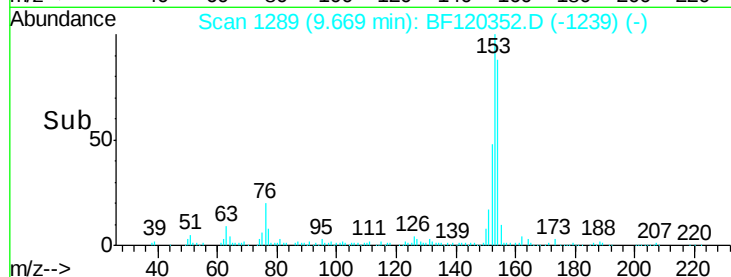
152 54.7 42.6 64.0



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: 5.010 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

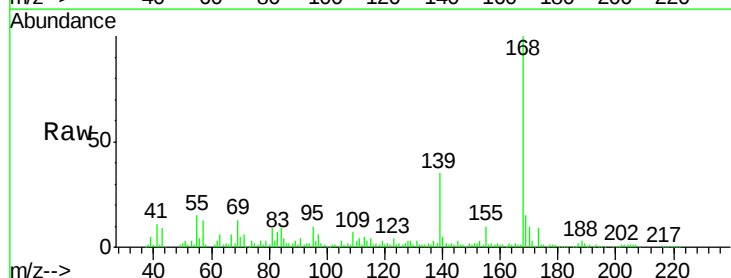
Tgt Ion:168 Resp: 180664

Ion Ratio Lower Upper

168 100

139 34.9 29.8 44.6

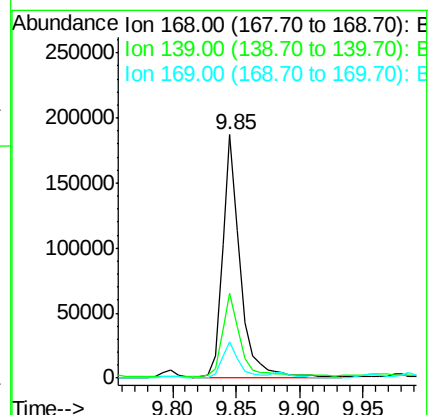
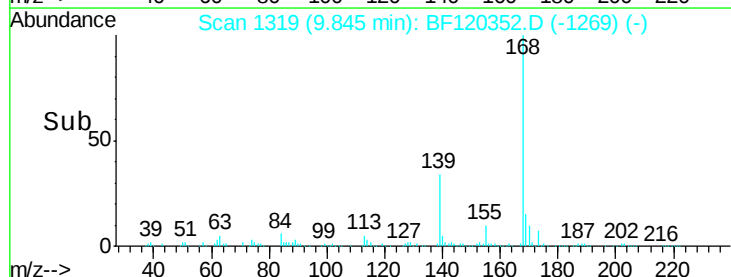
169 14.7 11.0 16.6

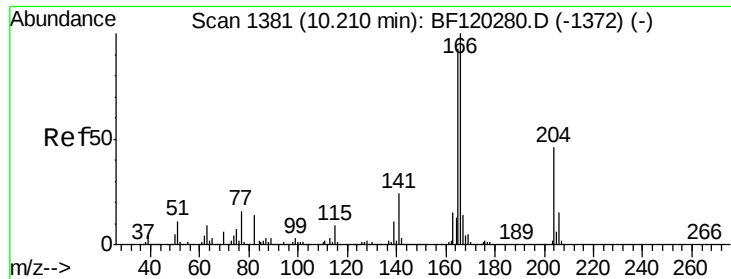


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 7.576 ng

RT: 10.19 min Scan# 1377

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

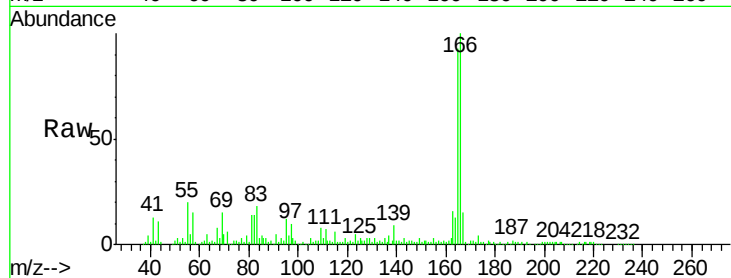
Tot Ion:166 Resp: 208065

Ion Ratio Lower Upper

166 100

165 93.1 74.7 112.1

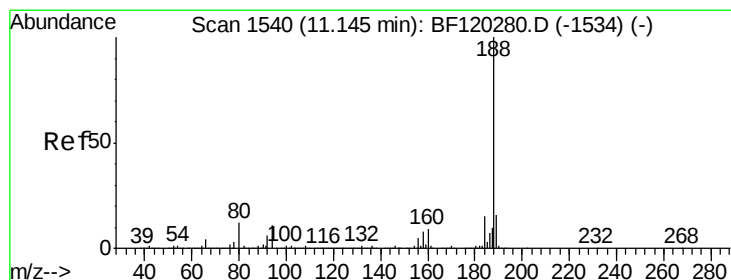
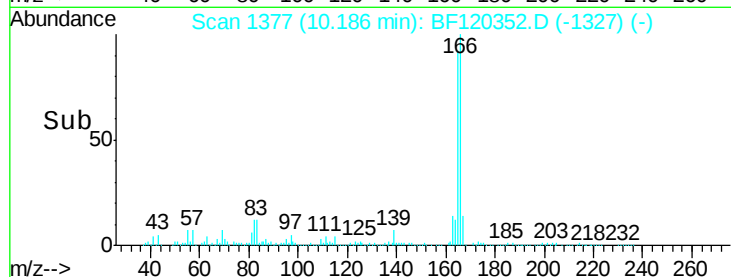
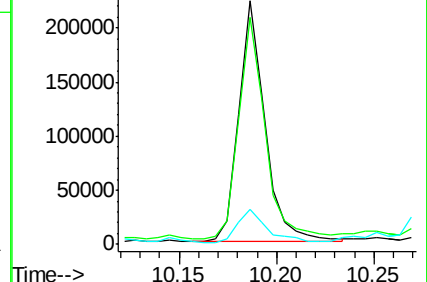
167 14.6 11.4 17.0



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: 11.13 min Scan# 1537

Delta R.T. 0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

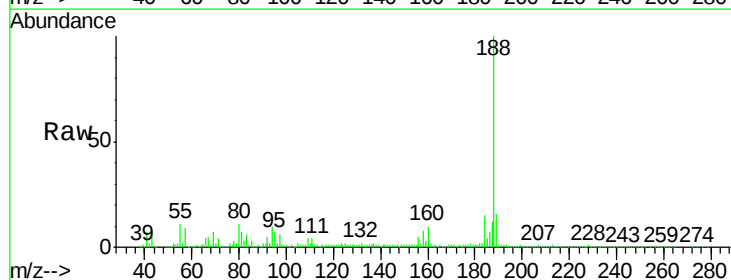
Tgt Ion:188 Resp: 880122

Ion Ratio Lower Upper

188 100

94 10.5 8.6 13.0

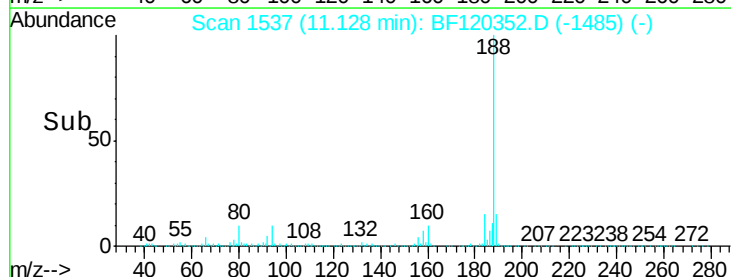
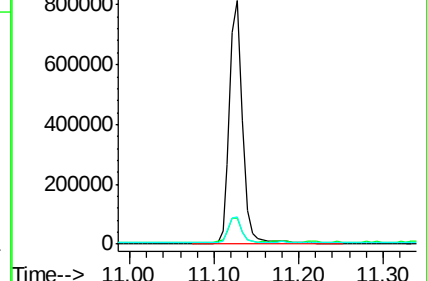
80 11.1 9.2 13.8

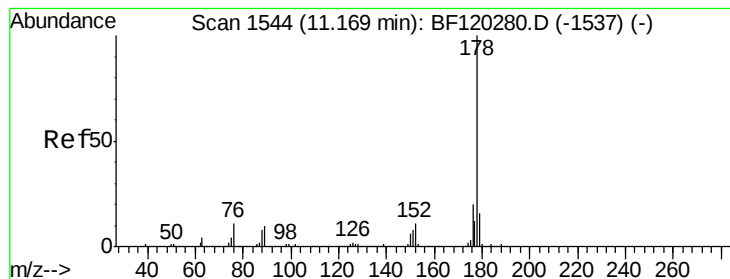


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 45.937 ng

RT: 11.15 min Scan# 1541

Delta R.T. -0.00 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

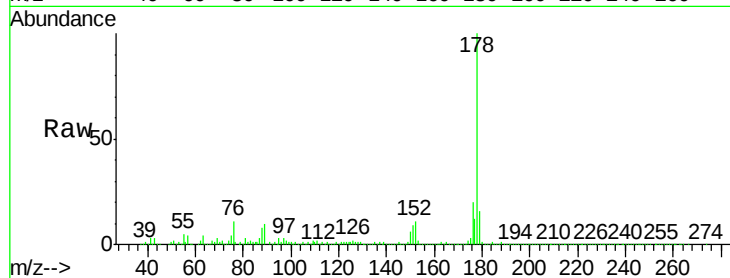
Tot Ion:178 Resp: 1698892

Ion Ratio Lower Upper

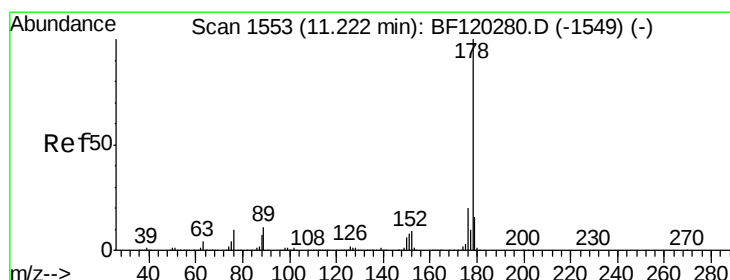
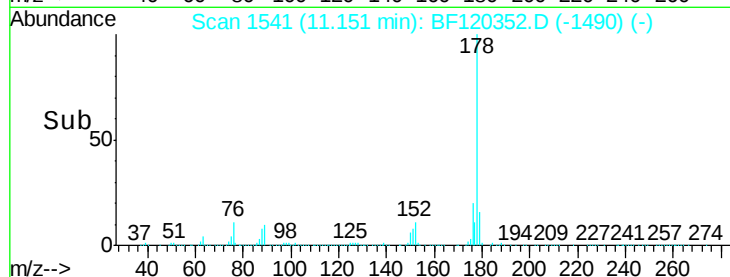
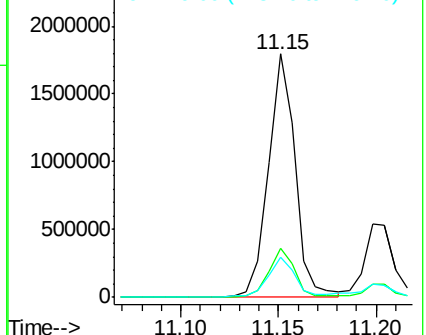
178 100

176 20.2 15.8 23.8

179 16.5 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: 14.521 ng

RT: 11.20 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

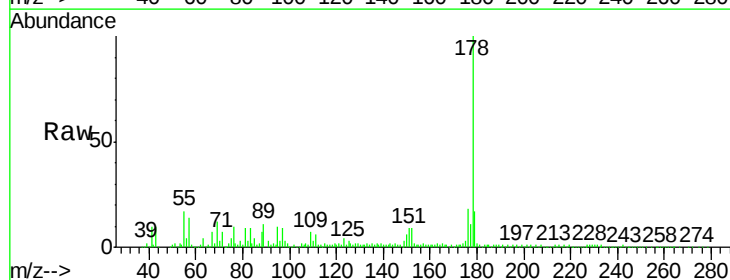
Tgt Ion:178 Resp: 574920

Ion Ratio Lower Upper

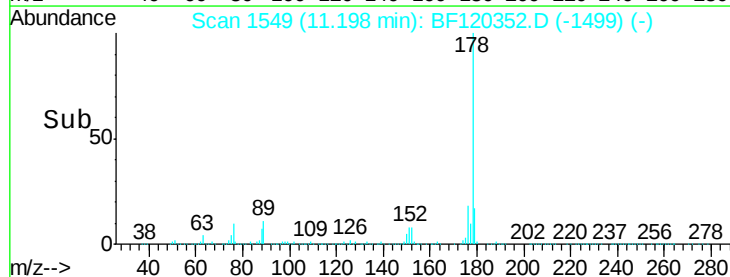
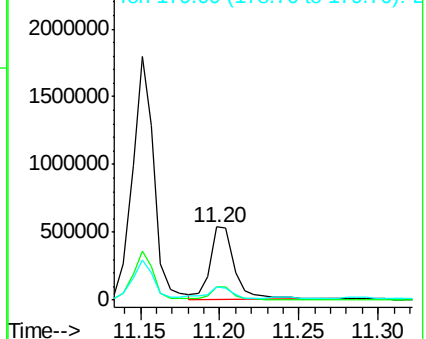
178 100

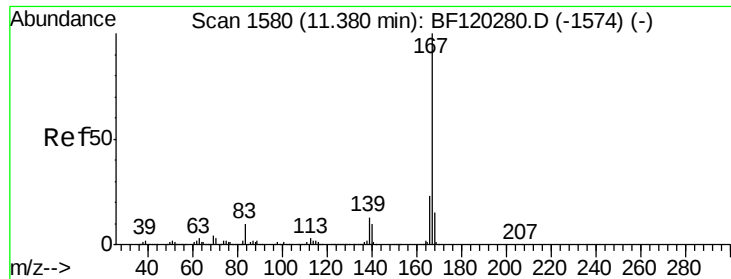
176 18.3 15.7 23.5

179 17.4 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

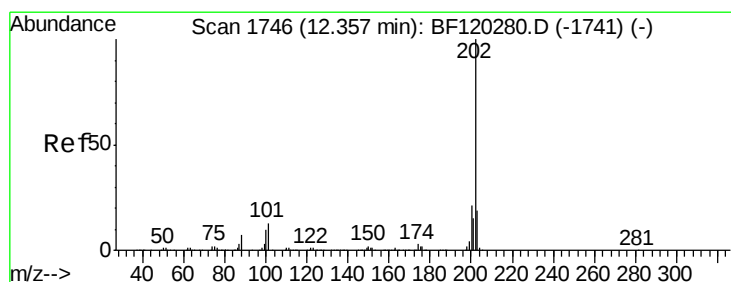
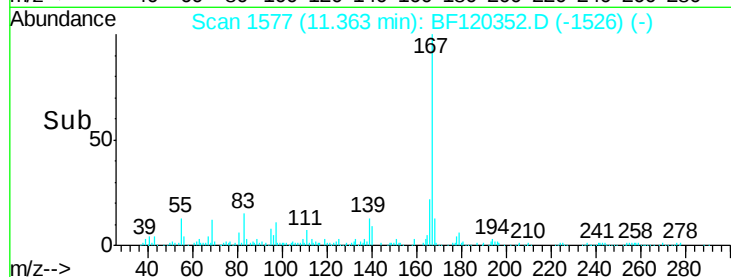
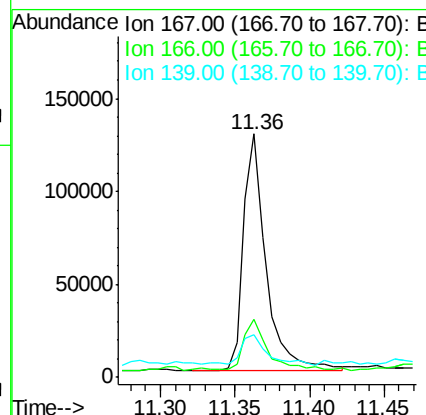
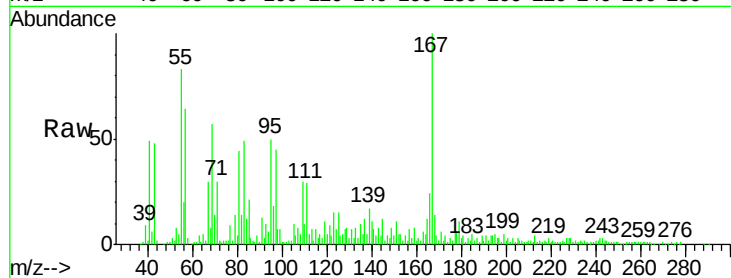




#73
 Carbazole
 Concen: 3.657 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

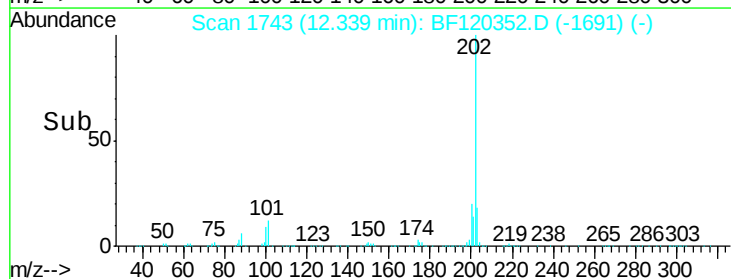
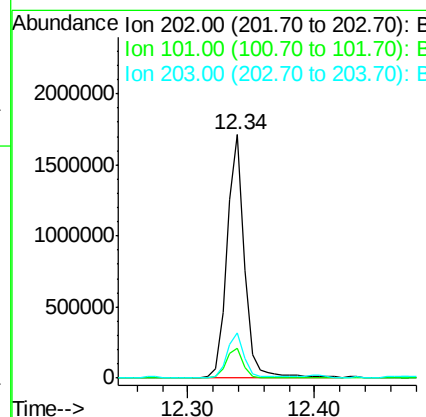
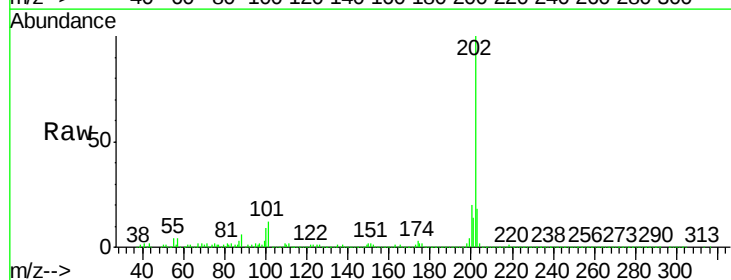
Instrument :
 BNA_F
 ClientSampleId :

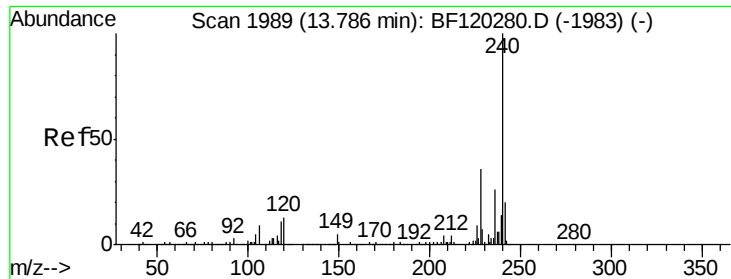
Tot Ion	Ratio	Lower	Upper
167	100		
166	23.9	18.1	27.1
139	17.4	10.6	15.8



#75
 Fluoranthene
 Concen: 41.234 ng
 RT: 12.34 min Scan# 1743
 Delta R.T. 0.01 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.2
203	18.4	0.0	39.1

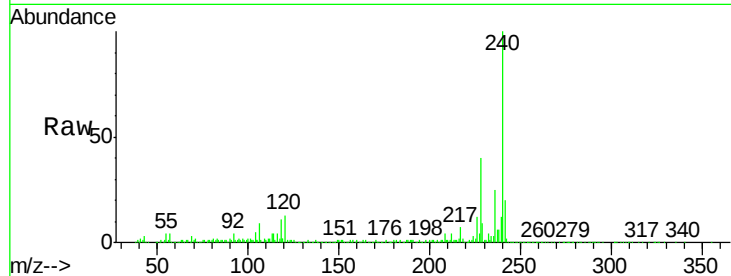




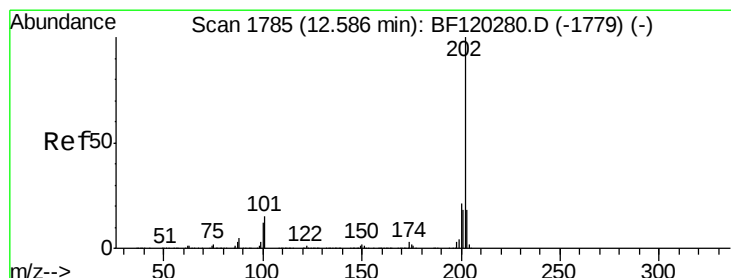
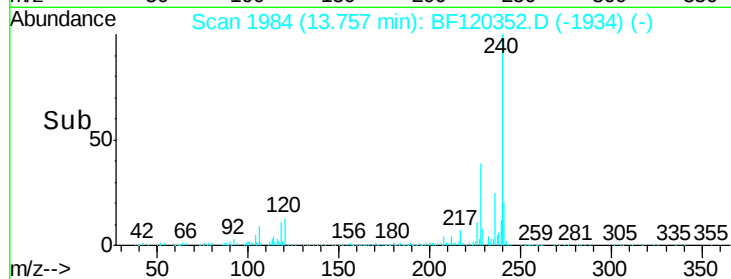
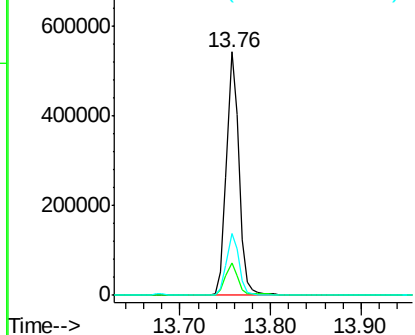
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.76 min Scan# 1984
Delta R.T. -0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Instrument :
BNA_F
ClientSampleId :

Tot Ion:240 Resp: 516088
Ion Ratio Lower Upper
240 100
120 13.2 10.4 15.6
236 25.4 21.0 31.6

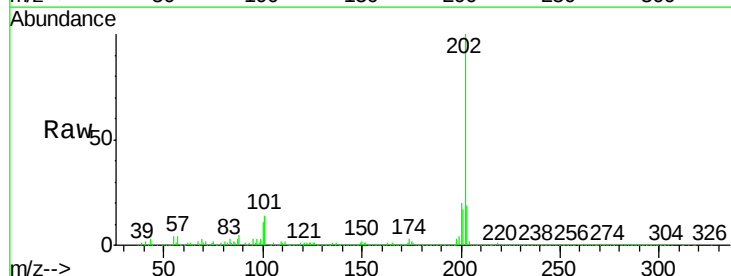


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

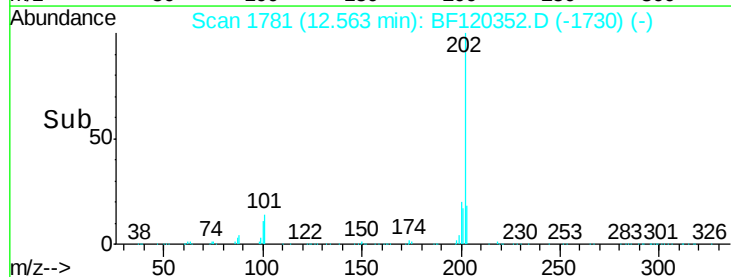
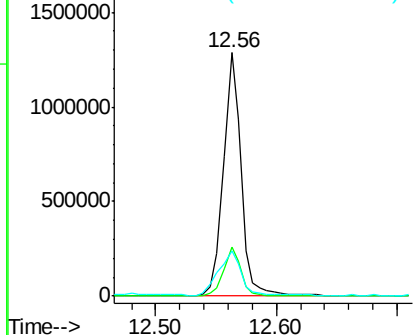


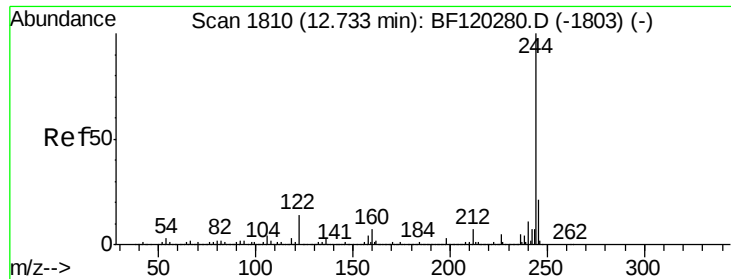
#78
Pyrene
Concen: 35.228 ng
RT: 12.56 min Scan# 1781
Delta R.T. -0.00 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Tgt Ion:202 Resp: 1296108
Ion Ratio Lower Upper
202 100
200 20.2 16.6 25.0
203 18.8 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

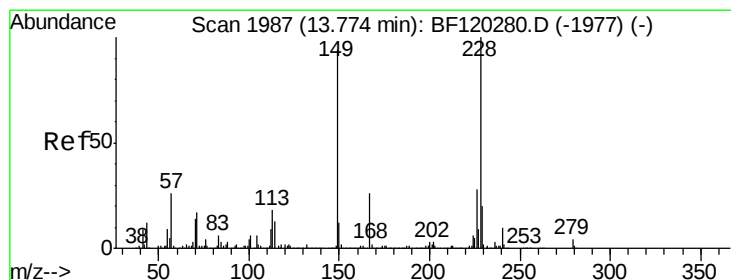
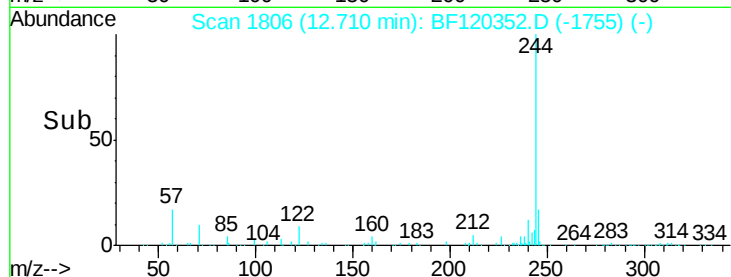
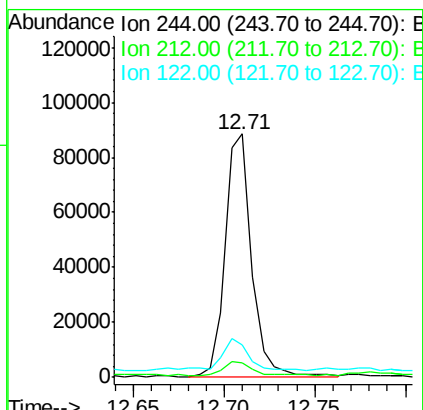
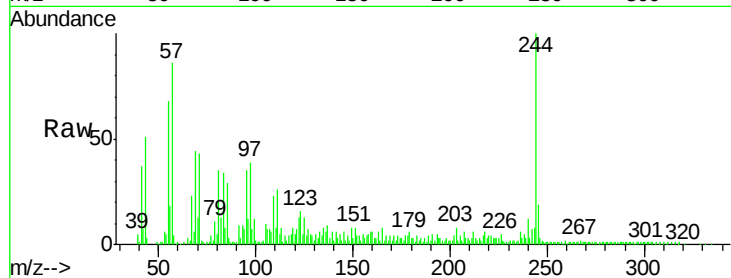




#79
 Terphenyl-d14
 Concen: 3.835 ng
 RT: 12.71 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

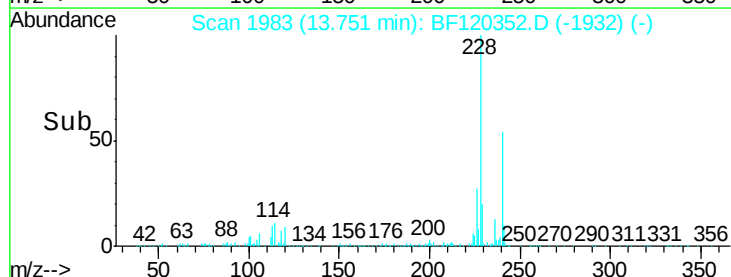
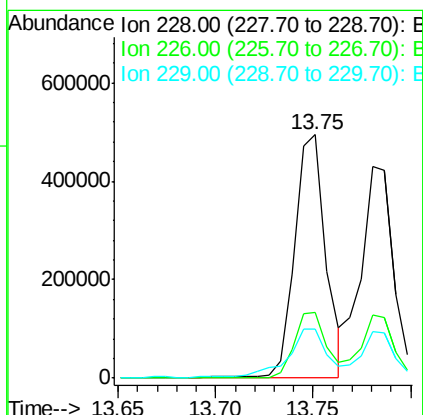
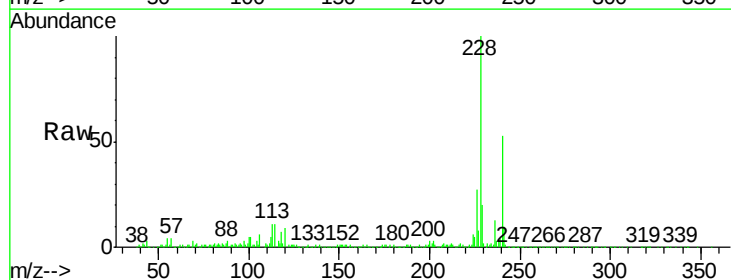
Instrument :
 BNA_F
 ClientSampleId :

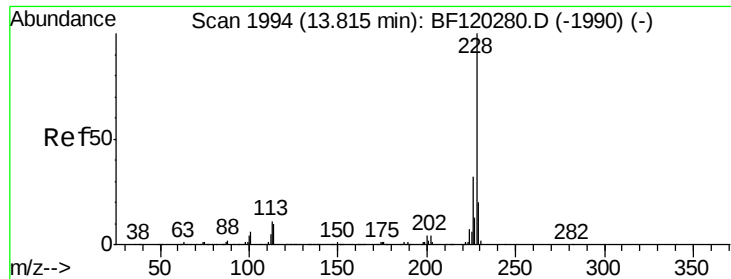
Tot Ion:244 Resp: 89592
 Ion Ratio Lower Upper
 244 100
 212 5.9 5.8 8.6
 122 13.1 10.8 16.2



#81
 Benzo(a)anthracene
 Concen: 19.972 ng
 RT: 13.75 min Scan# 1983
 Delta R.T. -0.00 min
 Lab File: BF120352.D
 Acq: 18 May 2020 20:01

Tgt Ion:228 Resp: 543654
 Ion Ratio Lower Upper
 228 100
 226 27.1 22.6 33.8
 229 20.1 16.4 24.6





#83

Chrysene

Concen: 17.267 ng

RT: 13.78 min Scan# 1988

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

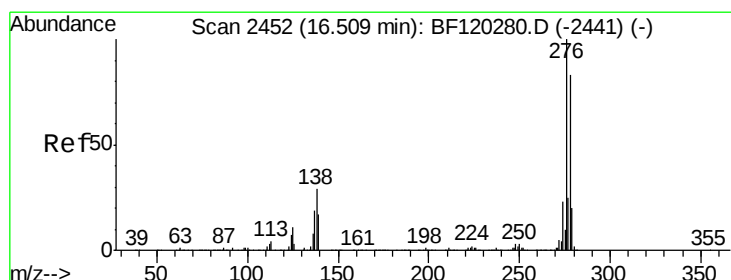
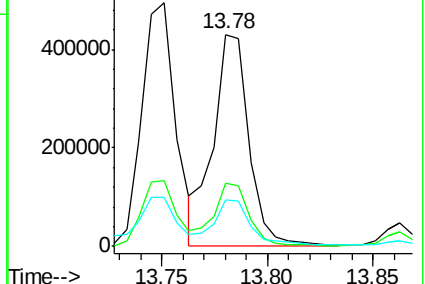
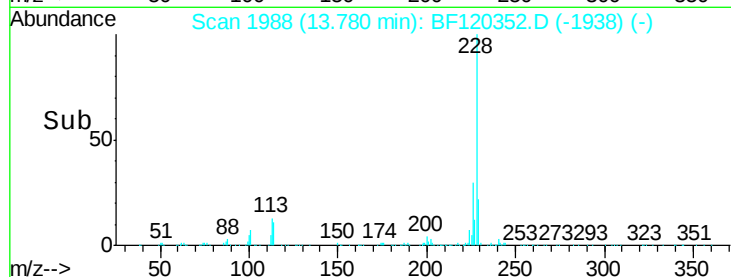
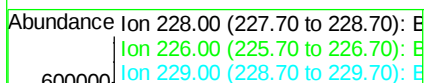
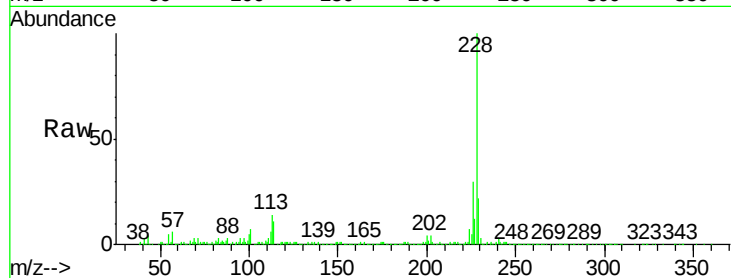
Tot Ion:228 Resp: 504713

Ion Ratio Lower Upper

228 100

226 29.8 25.0 37.6

229 22.0 16.2 24.4



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.501 ng

RT: 16.45 min Scan# 2442

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

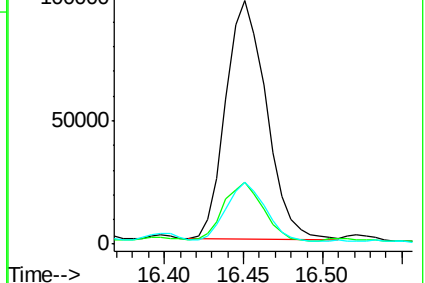
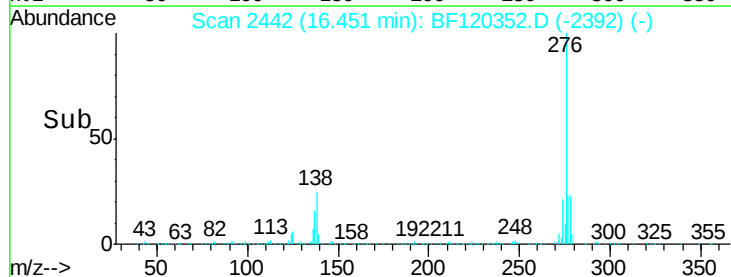
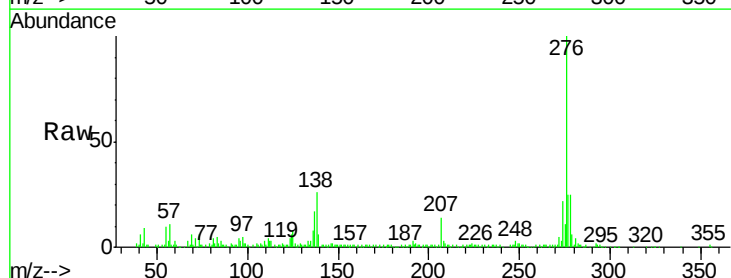
Tgt Ion:276 Resp: 172476

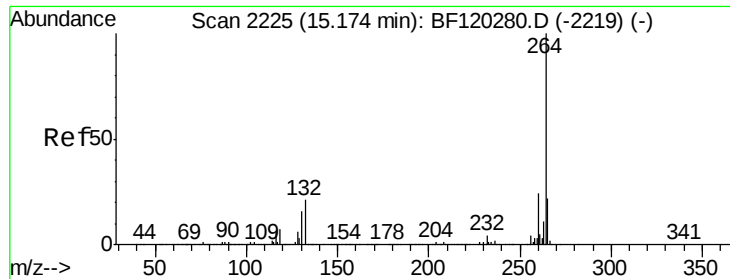
Ion Ratio Lower Upper

276 100

138 25.4 23.3 34.9

277 24.9 20.2 30.4

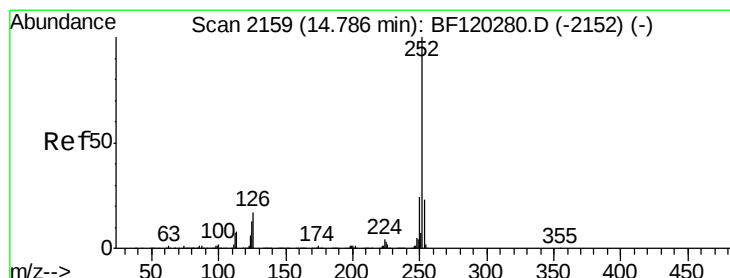
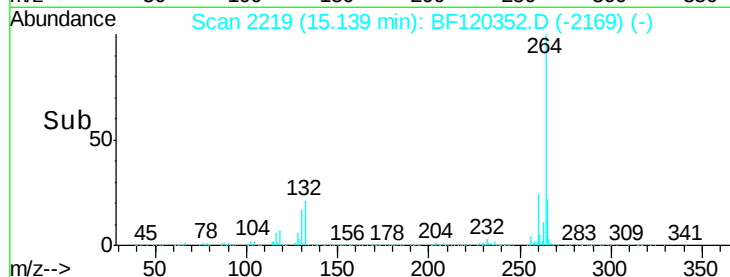
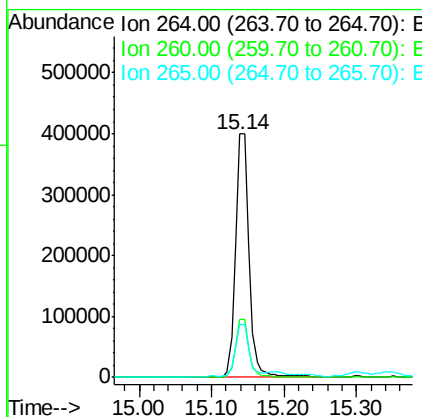
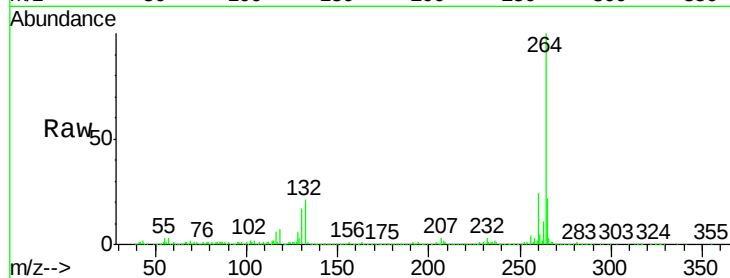




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

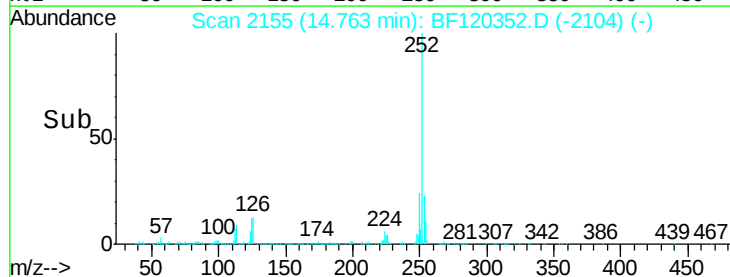
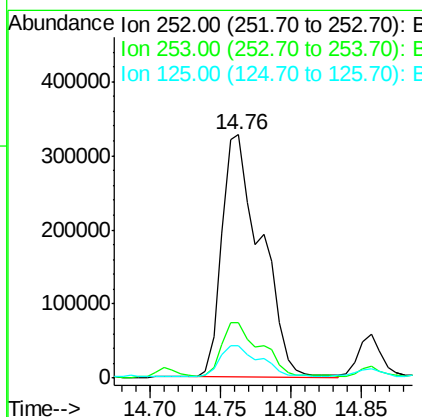
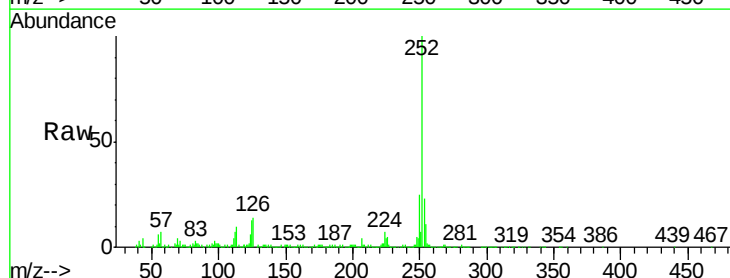
Instrument :
BNA_F
ClientSampleId :

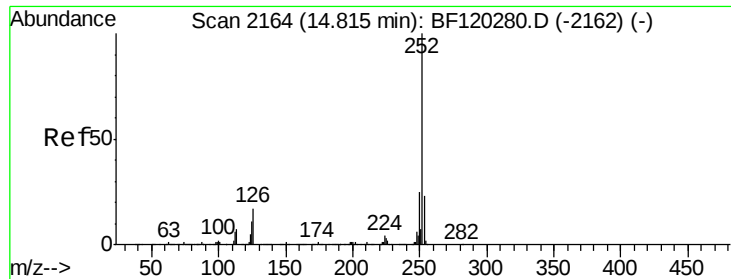
Tot Ion:264 Resp: 517169
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 21.8 17.5 26.3



#88
Benzo(b)fluoranthene
Concen: 22.377 ng
RT: 14.76 min Scan# 2155
Delta R.T. -0.00 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Tgt Ion:252 Resp: 632024
Ion Ratio Lower Upper
252 100
253 22.8 18.1 27.1
125 13.2 10.4 15.6

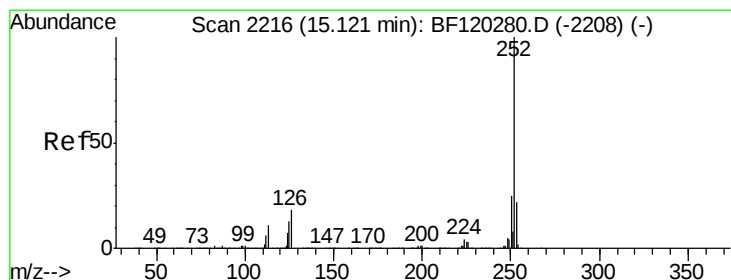
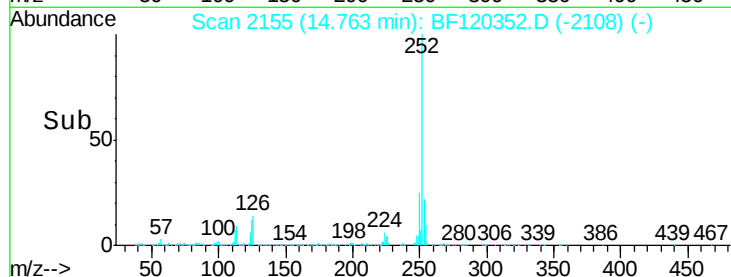
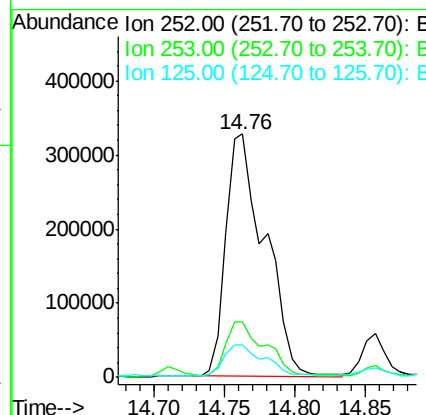
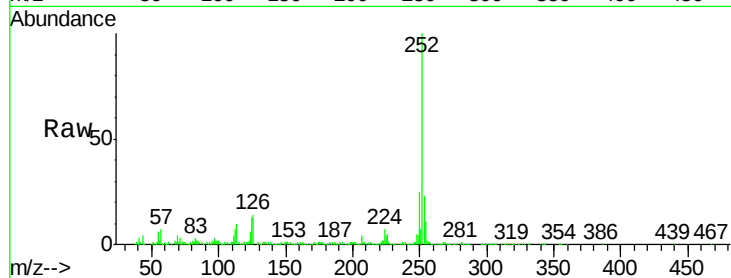




#89
Benzo(k)fluoranthene
Concen: 25.829 ng
RT: 14.76 min Scan# 2155
Delta R.T. -0.02 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

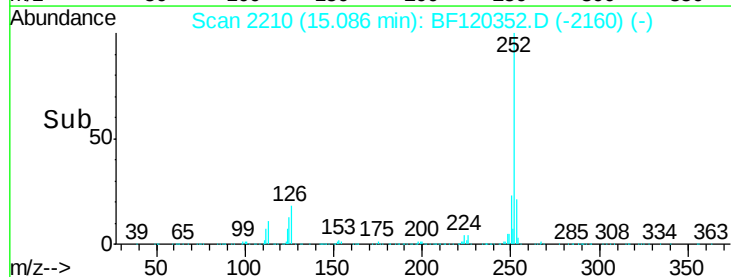
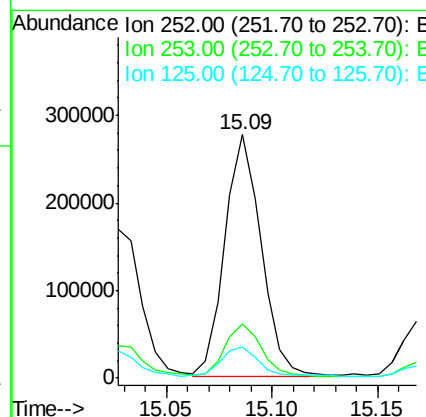
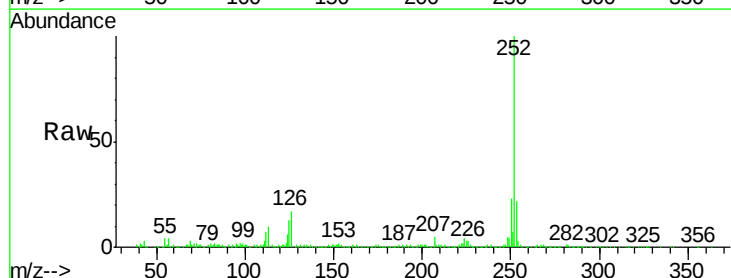
Instrument :
BNA_F
ClientSampleId :

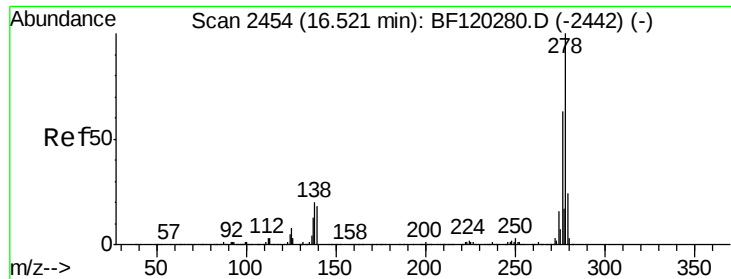
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	13.2	9.9	14.9



#90
Benzo(a)pyrene
Concen: 13.092 ng
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF120352.D
Acq: 18 May 2020 20:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	12.8	10.6	16.0





#91

Dibenzo(a,h)anthracene

Concen: 2.546 ng

RT: 16.46 min Scan# 2443

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

Instrument :

BNA_F

ClientSampleId :

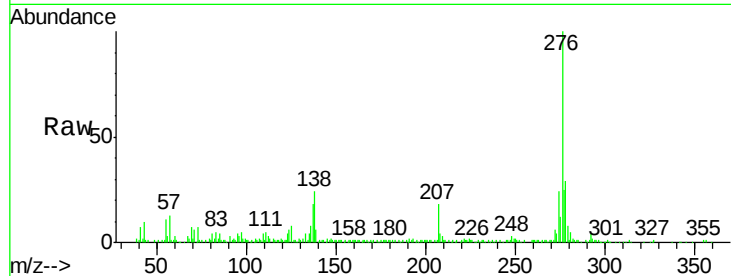
Tot Ion:278 Resp: 57126

Ion Ratio Lower Upper

278 100

139 22.1 14.7 22.1

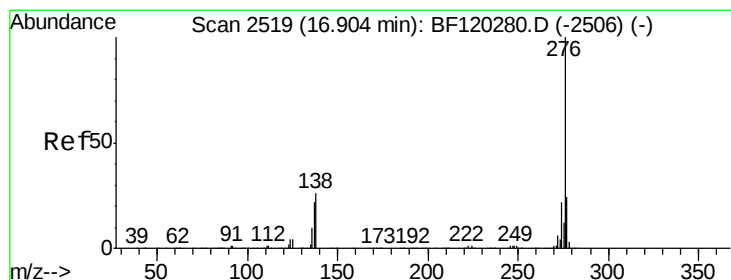
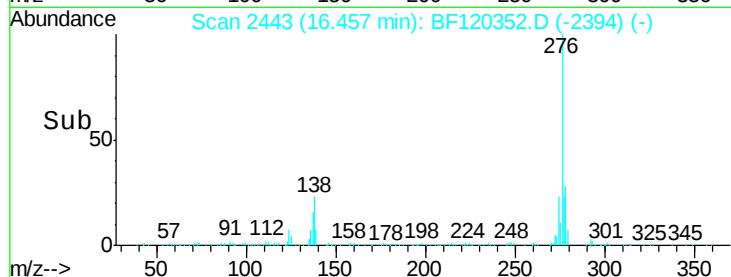
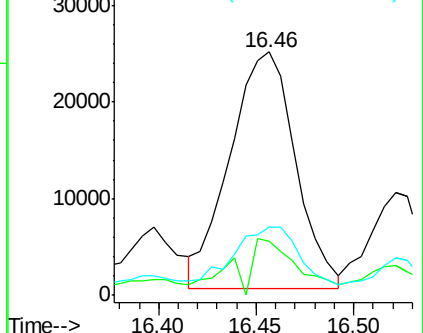
279 28.1 19.2 28.8



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 6.729 ng

RT: 16.84 min Scan# 2509

Delta R.T. -0.01 min

Lab File: BF120352.D

Acq: 18 May 2020 20:01

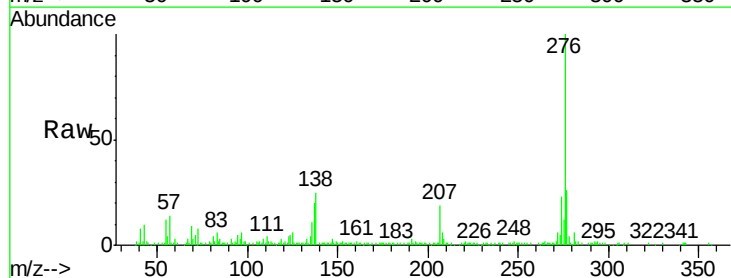
Tgt Ion:276 Resp: 152264

Ion Ratio Lower Upper

276 100

277 26.4 19.1 28.7

138 25.3 20.8 31.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

