

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\
 Data File : BF120495.D
 Acq On : 2 Jun 2020 15:23
 Operator : JU/CG
 Sample : L2814-01DL 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 02 15:55:18 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 02 11:37:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	168069	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	601044	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	288394	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	518010	20.00	ng	0.00
76) Chrysene-d12	14.02	240	369521	20.00	ng	0.00
86) Perylene-d12	15.47	264	363290	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	105877	12.01	ng	0.00
7) Phenol-d6	6.47	99	135933	12.51	ng	-0.01
23) Nitrobenzene-d5	7.40	82	75665	8.23	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	32181	12.04	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	169758	9.99	ng	0.00
79) Terphenyl-d14	12.95	244	178556	10.75	ng	0.00

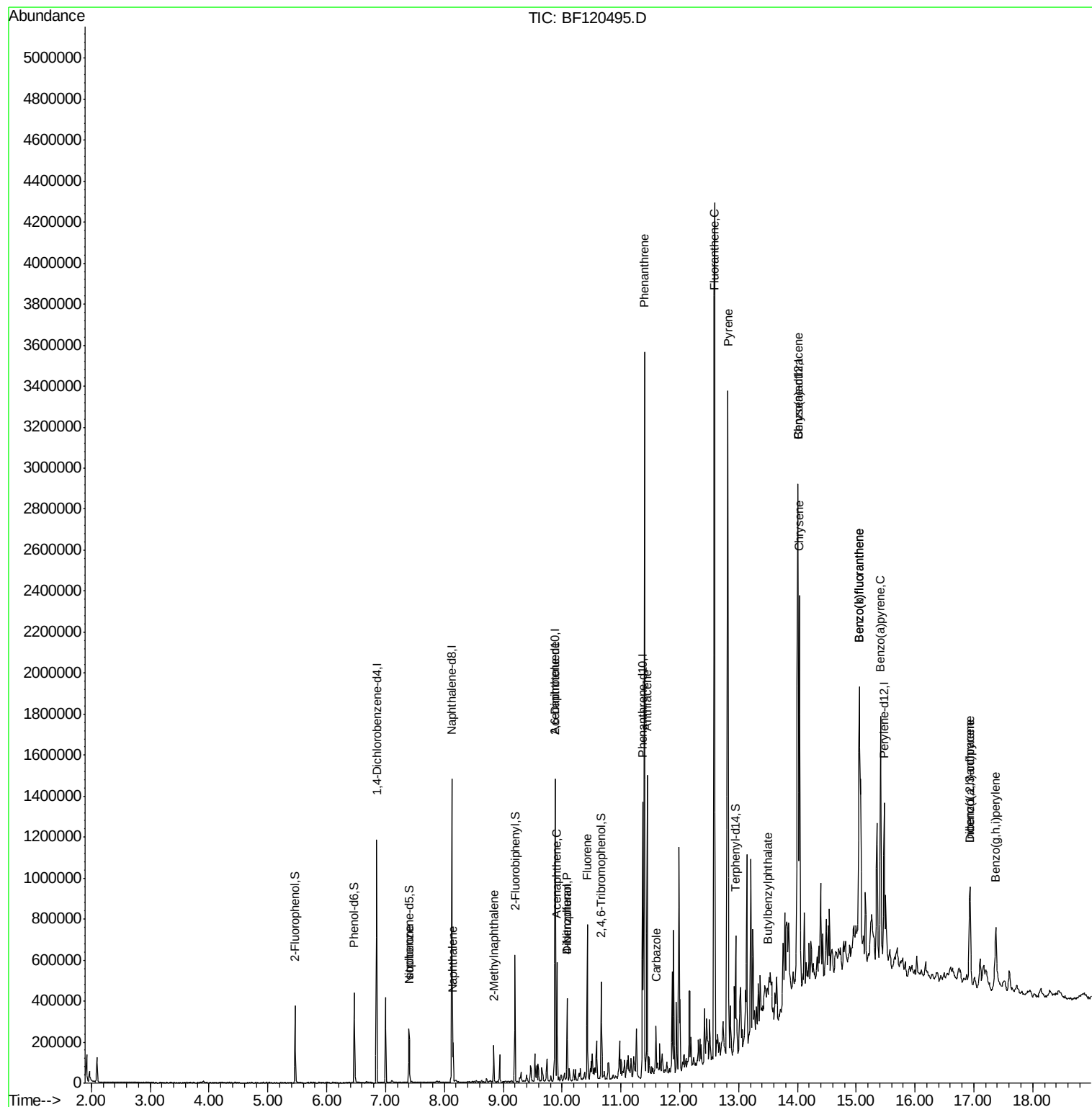
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.40	82	75683	4.098	ng	# 64
31) Naphthalene	8.15	128	91682	3.473	ng	98
37) 2-Methylnaphthalene	8.84	142	41113	2.351	ng	97
51) 2,6-Dinitrotoluene	9.88	165	40684	10.154	ng	# 26
52) Acenaphthene	9.92	154	106617	7.086	ng	98
55) Dibenzofuran	10.09	168	127203	5.818	ng	97
56) 4-Nitrophenol	10.09	139	43550	12.090	ng	# 14
58) Fluorene	10.43	166	205868	12.547	ng	99
71) Phenanthrene	11.40	178	1262887	55.329	ng	100
72) Anthracene	11.45	178	515122	22.493	ng	99
73) Carbazole	11.60	167	84040	3.794	ng	97
75) Fluoranthene	12.59	202	1842947	75.038	ng	99
78) Pyrene	12.82	202	1545756	60.151	ng	99
80) Butylbenzylphthalate	13.50	149	25862	2.411	ng	# 49
81) Benzo(a)anthracene	14.00	228	909475	45.923	ng	98
83) Chrysene	14.04	228	694378	33.444	ng	97
87) Indeno(1,2,3-cd)pyrene	16.93	276	304967	15.348	ng	96
88) Benzo(b)fluoranthene	15.06	252	1050556	52.064	ng	99
89) Benzo(k)fluoranthene	15.06	252	1050556	55.770	ng	# 97
90) Benzo(a)pyrene	15.42	252	557757	31.601	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	92548	5.713	ng	# 88
92) Benzo(g,h,i)perylene	17.37	276	256637	16.062	ng	99

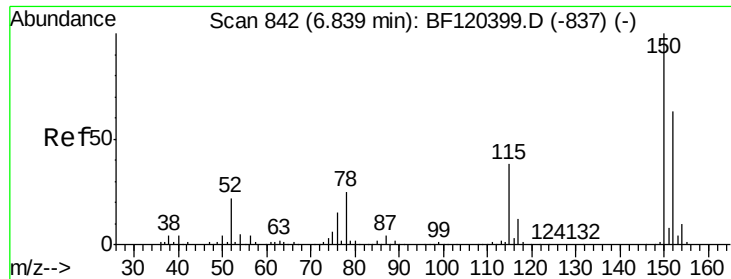
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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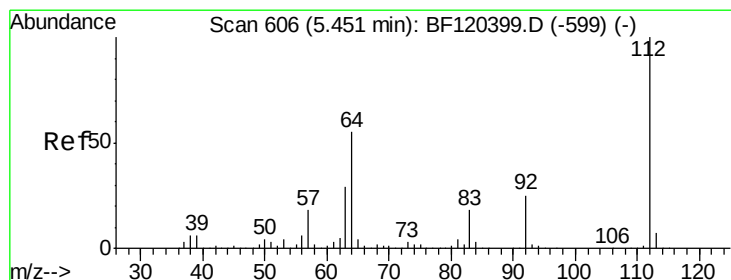
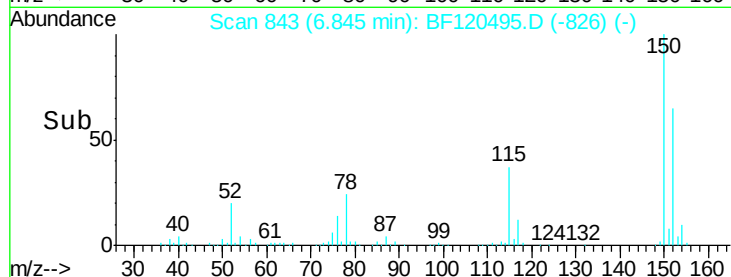
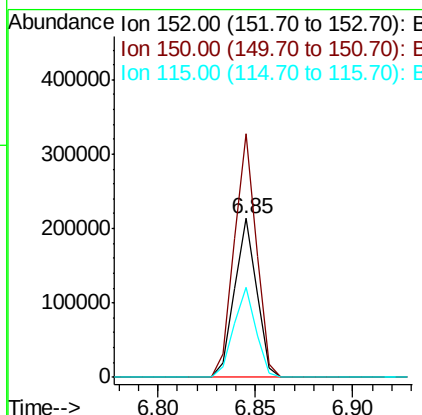
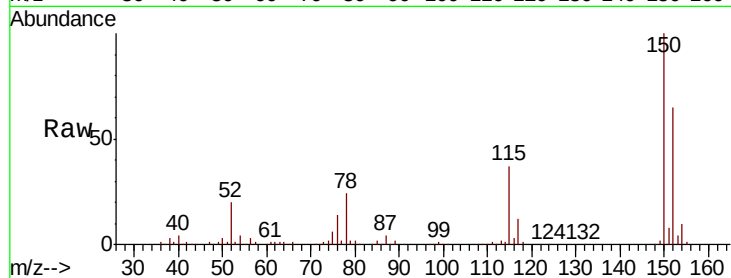




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

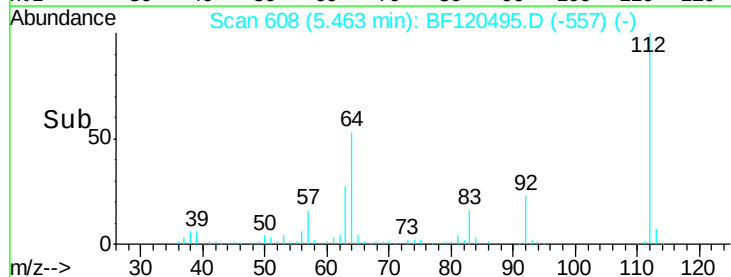
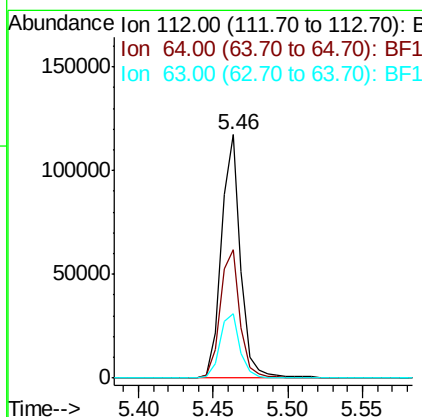
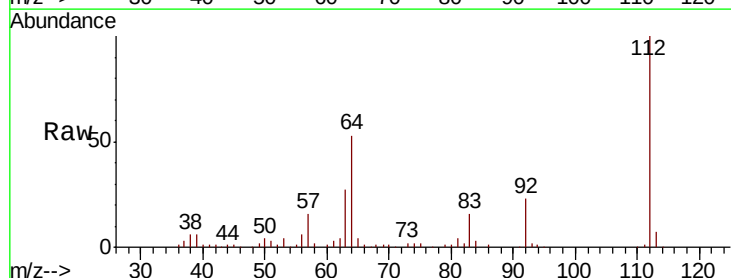
Instrument :
 BNA_F
 ClientSampleId :

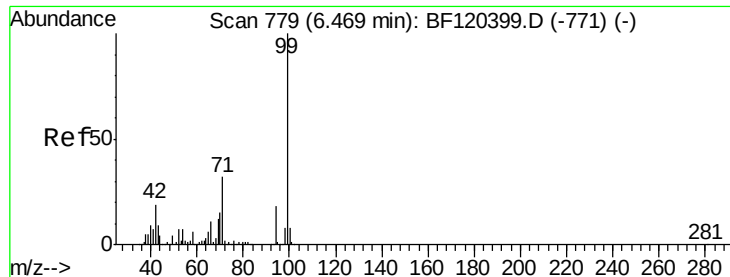
Tot Ion:152 Resp: 168069
 Ion Ratio Lower Upper
 152 100
 150 153.3 126.7 190.1
 115 56.4 46.2 69.2



#5
 2-Fluorophenol
 Concen: 12.005 ng
 RT: 5.46 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion:112 Resp: 105877
 Ion Ratio Lower Upper
 112 100
 64 52.6 46.3 69.5
 63 26.6 24.2 36.2





#7

Phenol-d6

Concen: 12.505 ng

RT: 6.47 min Scan# 779

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

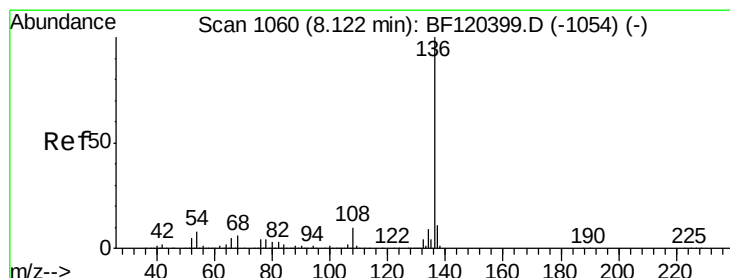
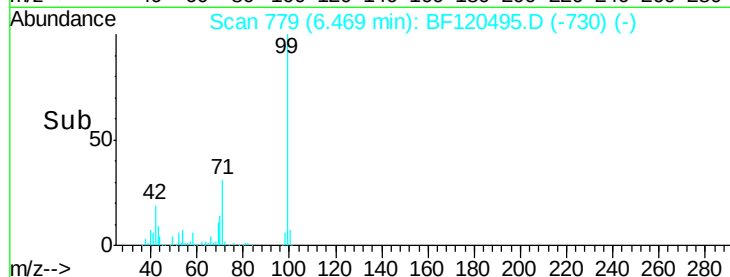
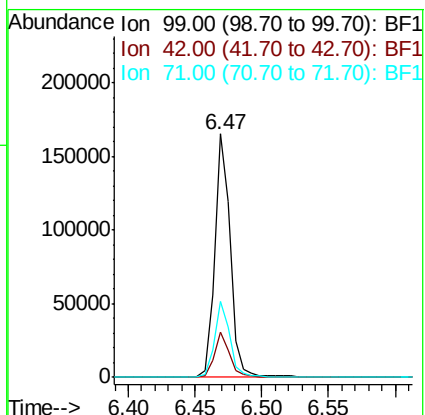
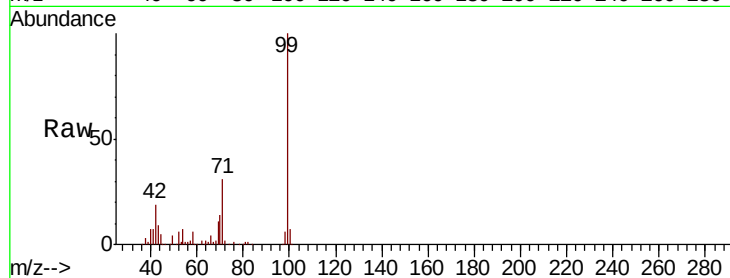
Tot Ion: 99 Resp: 135933

Ion Ratio Lower Upper

99 100

42 18.5 15.1 22.7

71 31.0 26.2 39.4



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1061

Delta R.T. -0.00 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Tgt Ion: 136 Resp: 601044

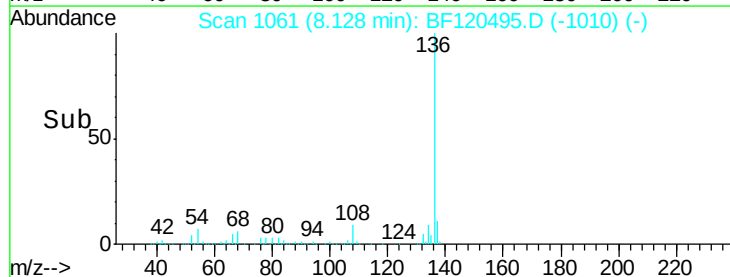
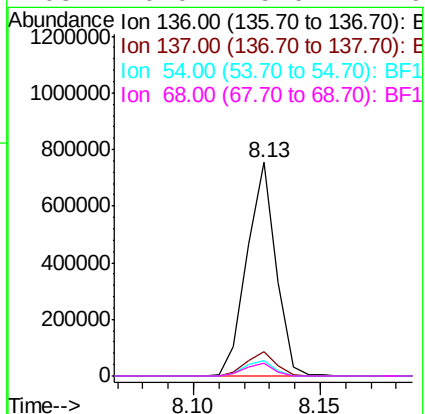
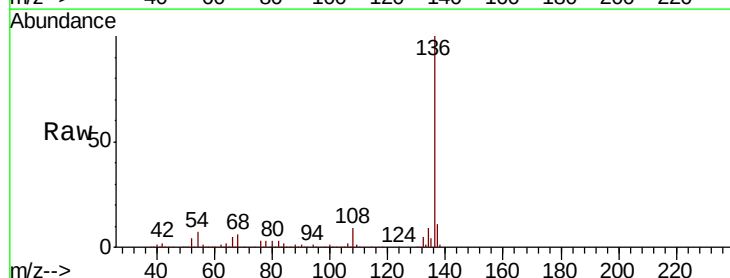
Ion Ratio Lower Upper

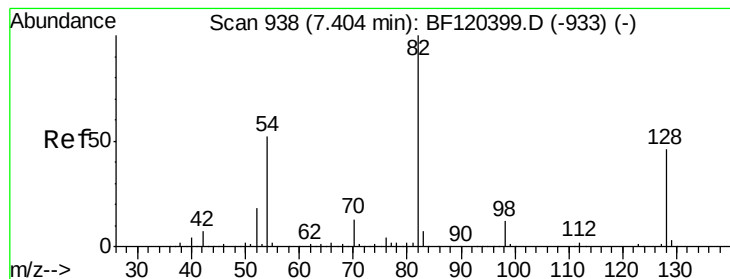
136 100

137 11.2 9.0 13.6

54 7.2 6.2 9.4

68 6.0 5.0 7.6





#23

Nitrobenzene-d5

Concen: 8.235 ng

RT: 7.40 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampled :

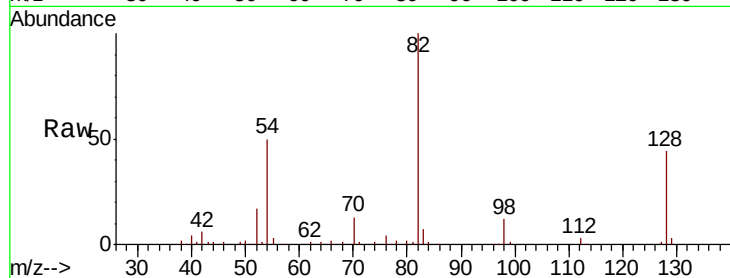
Tot Ion: 82 Resp: 75665

Ion Ratio Lower Upper

82 100

128 43.6 37.0 55.6

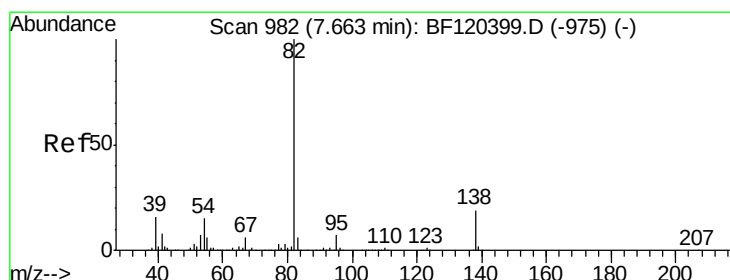
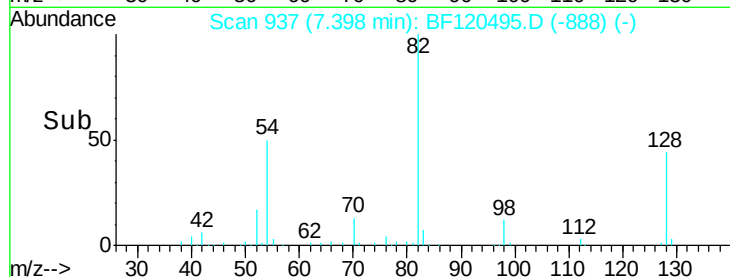
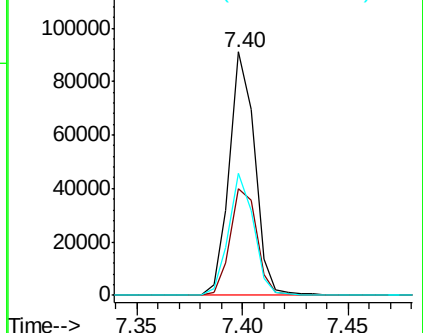
54 50.1 41.0 61.4



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



#25

Isophorone

Concen: 4.098 ng

RT: 7.40 min Scan# 937

Delta R.T. -0.27 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

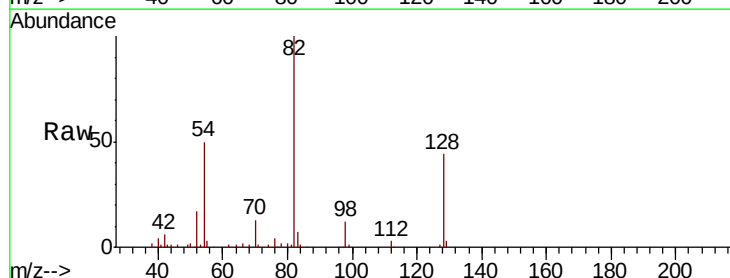
Tgt Ion: 82 Resp: 75683

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

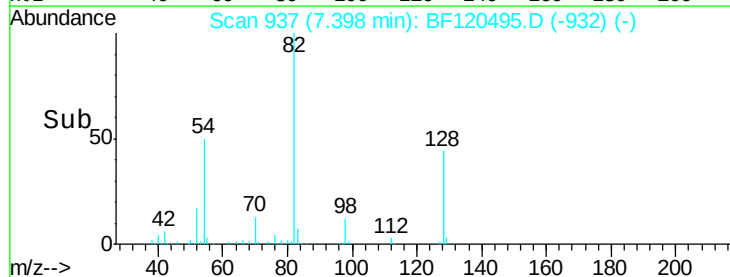
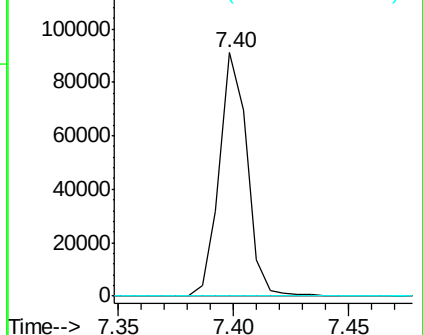
138 0.0 15.0 22.6#

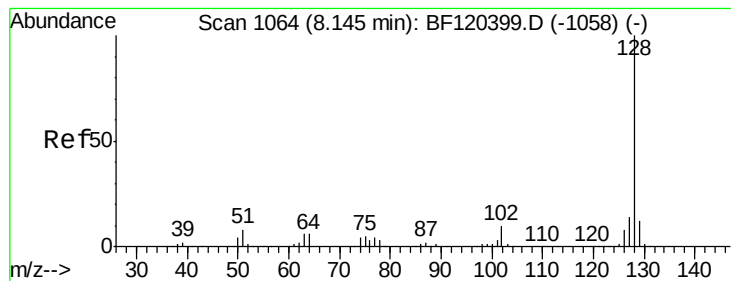


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 3.473 ng

RT: 8.15 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampled :

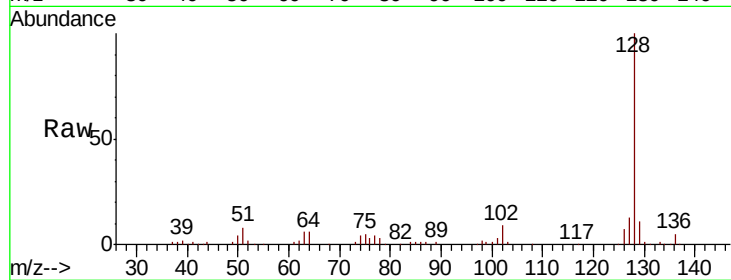
Tot Ion:128 Resp: 91682

Ion Ratio Lower Upper

128 100

129 11.4 9.4 14.0

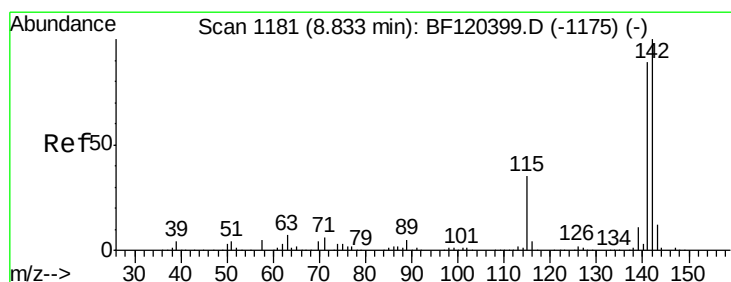
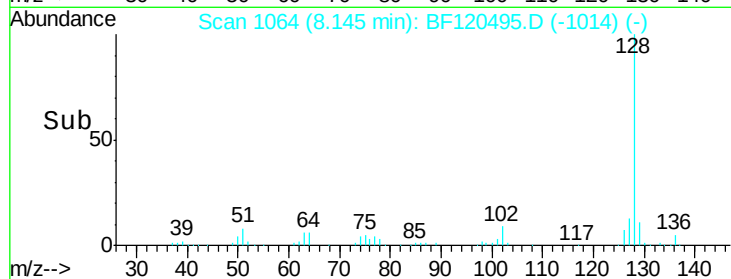
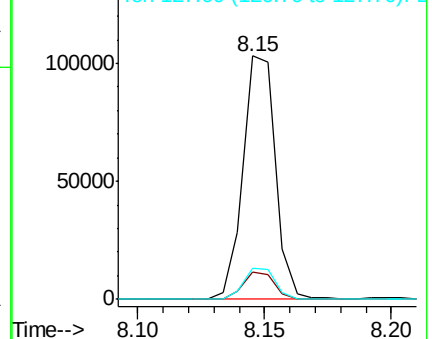
127 12.6 10.9 16.3



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: 2.351 ng

RT: 8.84 min Scan# 1182

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

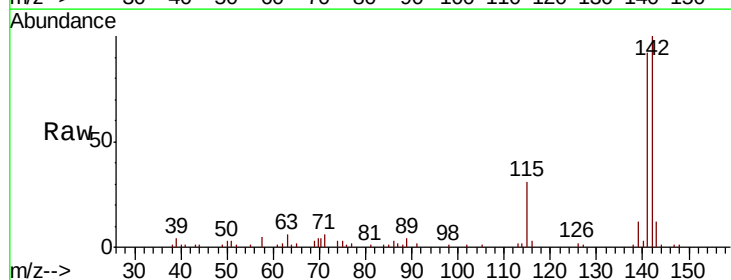
Tgt Ion:142 Resp: 41113

Ion Ratio Lower Upper

142 100

141 91.6 70.8 106.2

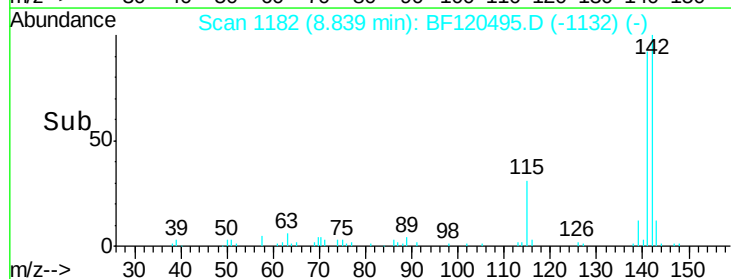
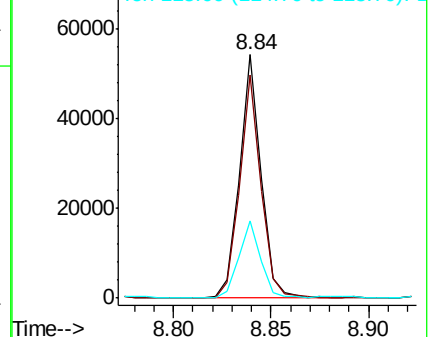
115 31.5 26.1 39.1

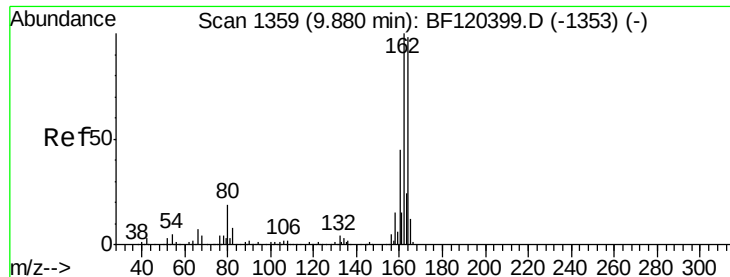


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.88 min Scan# 1359

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

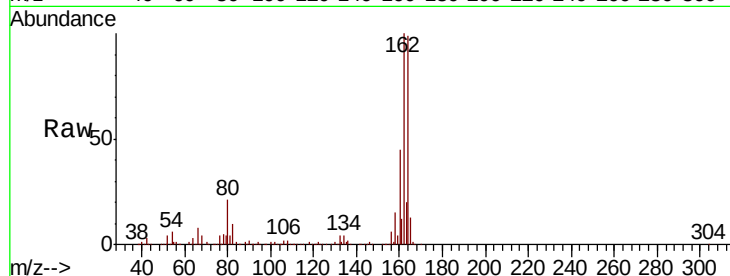
Tot Ion:164 Resp: 288394

Ion Ratio Lower Upper

164 100

162 100.9 81.9 122.9

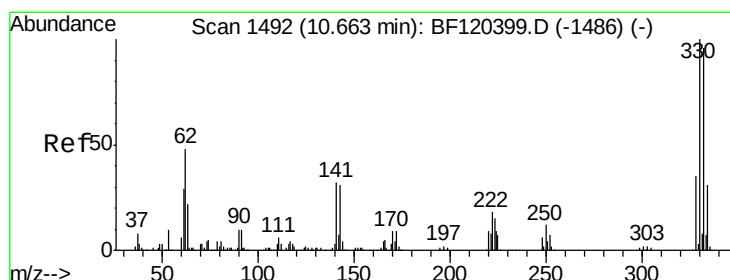
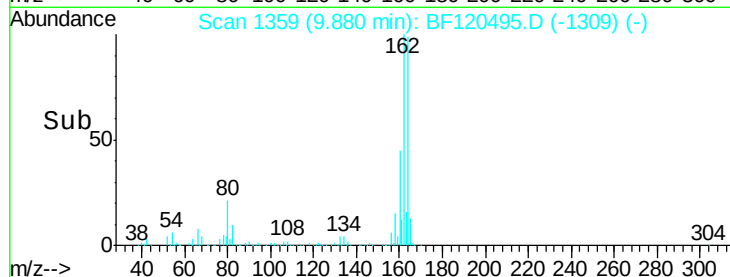
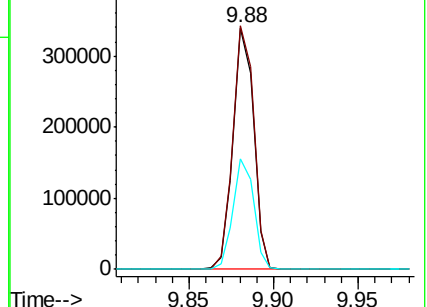
160 45.8 37.4 56.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 12.043 ng

RT: 10.67 min Scan# 1493

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

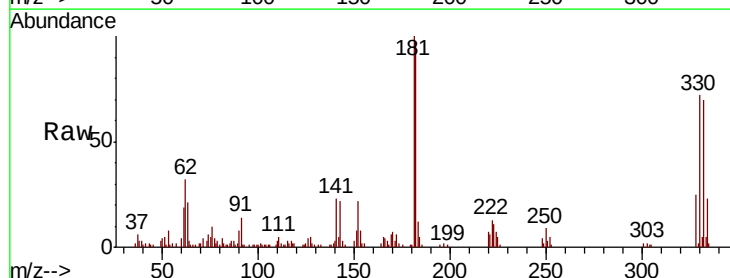
Tgt Ion:330 Resp: 32181

Ion Ratio Lower Upper

330 100

332 97.2 76.8 115.2

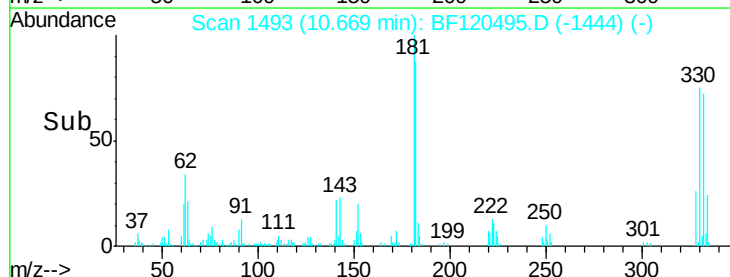
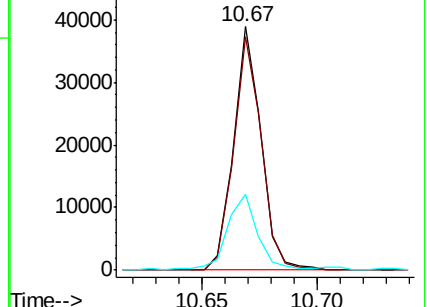
141 35.3 23.9 35.9

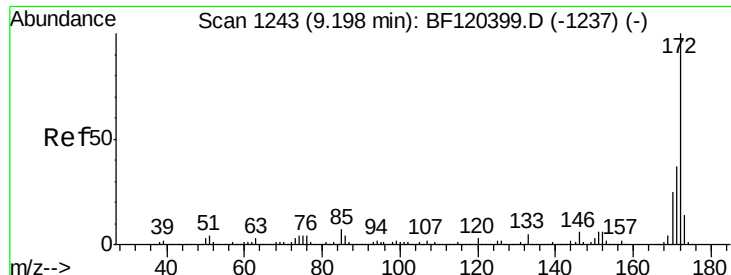


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

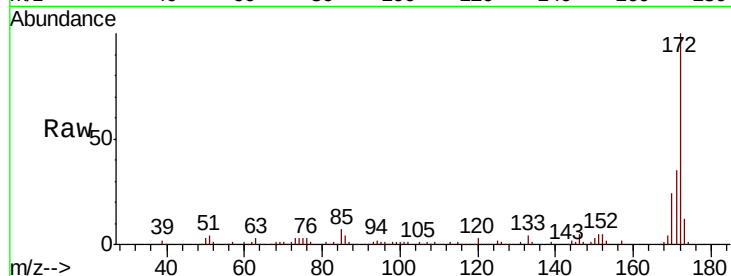




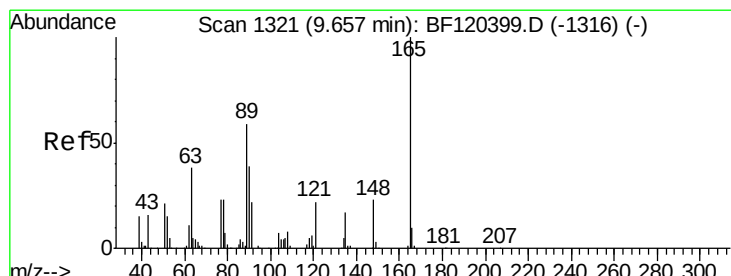
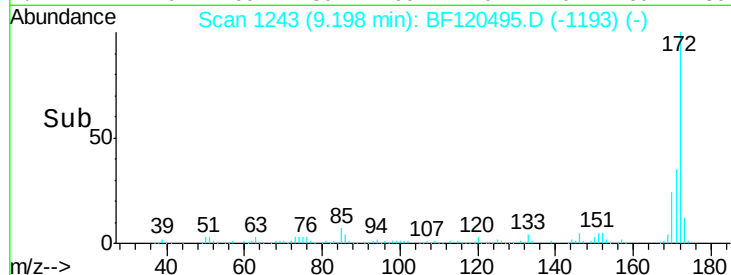
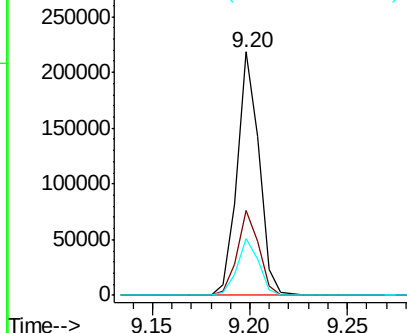
#45
2-Fluorobiphenyl
Concen: 9.987 ng
RT: 9.20 min Scan# 1243
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.4	44.2
170	23.6	19.9	29.9

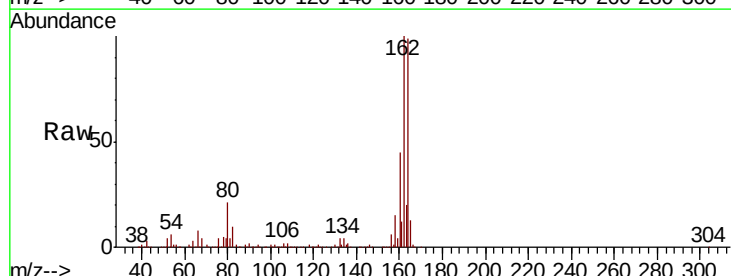


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

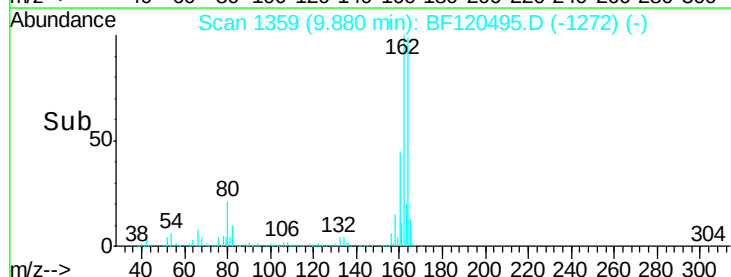
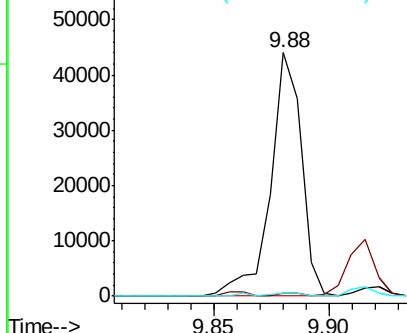


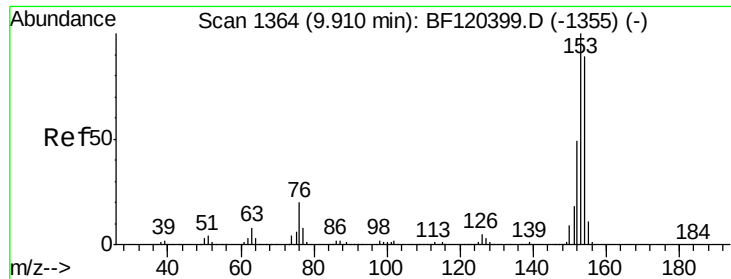
#51
2,6-Dinitrotoluene
Concen: 10.154 ng
RT: 9.88 min Scan# 1359
Delta R.T. 0.21 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	44.3	66.5#
89	1.1	43.0	64.4#



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





#52

Acenaphthene

Concen: 7.086 ng

RT: 9.92 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

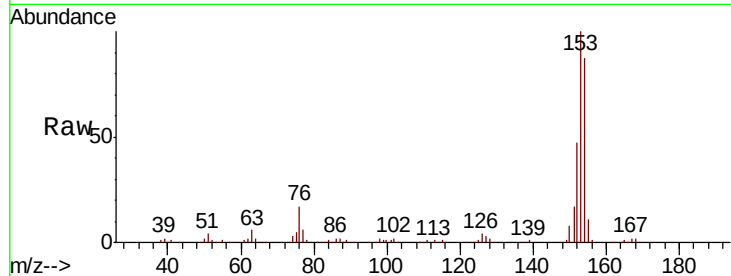
Tot Ion:154 Resp: 106617

Ion Ratio Lower Upper

154 100

153 114.4 90.2 135.4

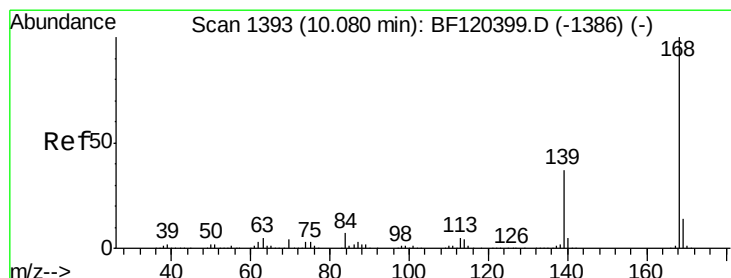
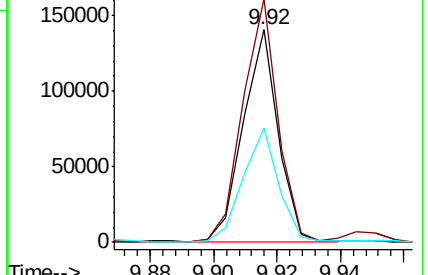
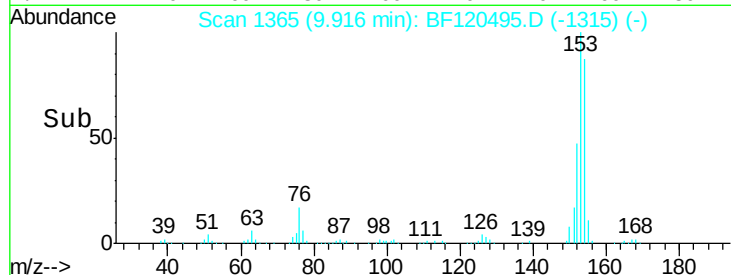
152 53.9 44.1 66.1



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: 5.818 ng

RT: 10.09 min Scan# 1394

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

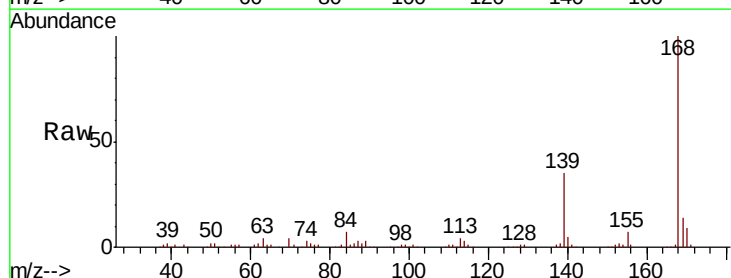
Tgt Ion:168 Resp: 127203

Ion Ratio Lower Upper

168 100

139 34.6 29.9 44.9

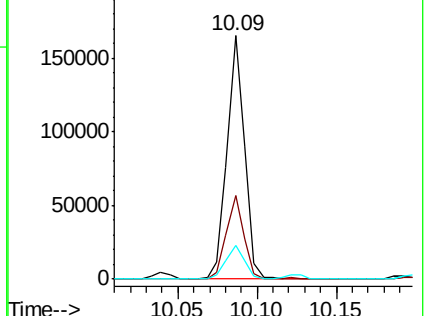
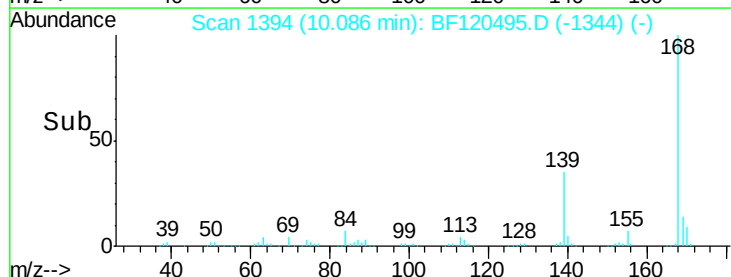
169 14.0 11.3 16.9

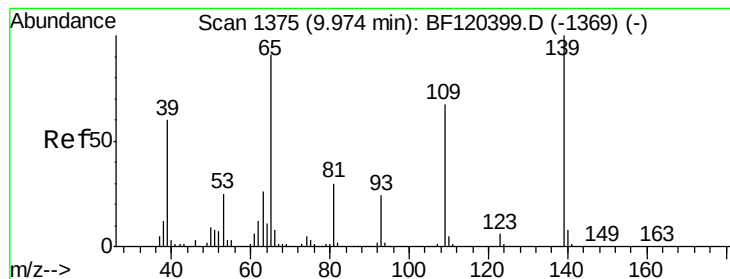


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#56

4-Nitrophenol

Concen: 12.090 ng

RT: 10.09 min Scan# 1394

Delta R.T. 0.08 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

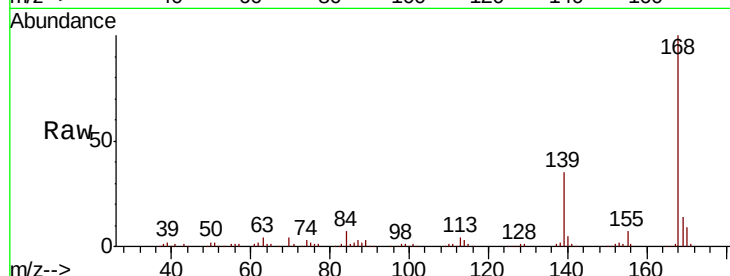
Tot Ion:139 Resp: 43550

Ion Ratio Lower Upper

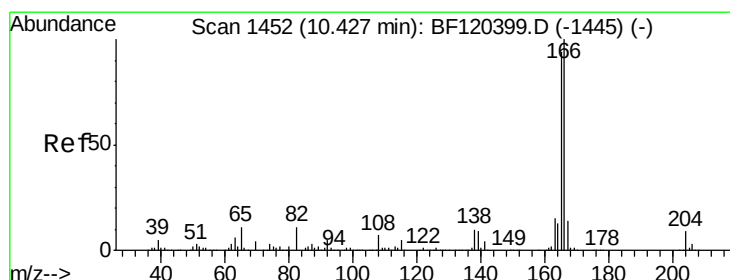
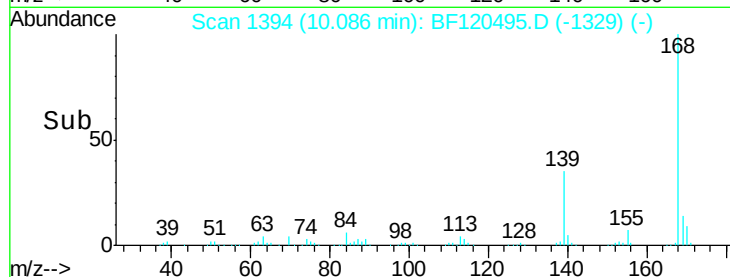
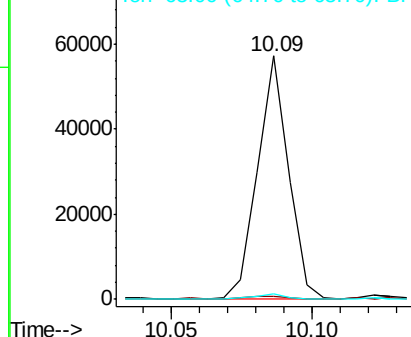
139 100

109 1.3 43.6 83.6#

65 2.0 62.9 102.9#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1



#58

Fluorene

Concen: 12.547 ng

RT: 10.43 min Scan# 1452

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

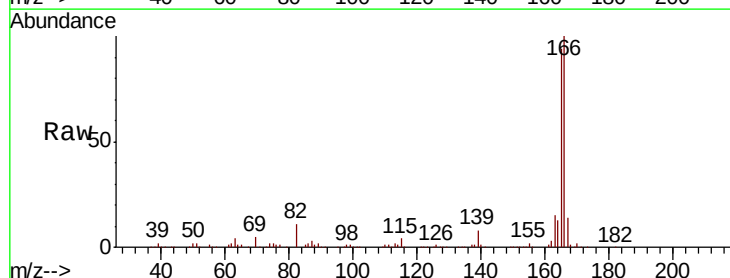
Tgt Ion:166 Resp: 205868

Ion Ratio Lower Upper

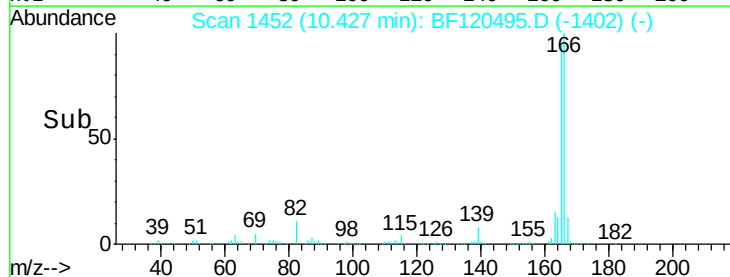
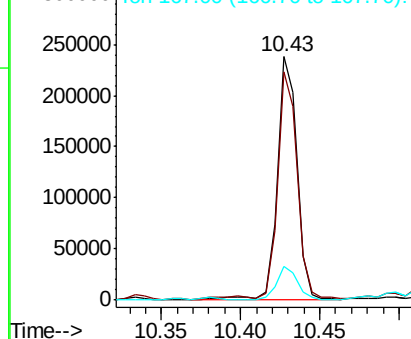
166 100

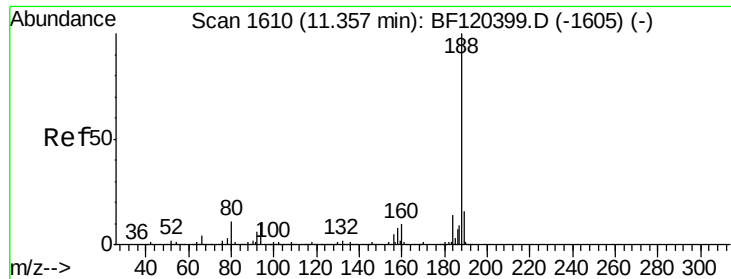
165 93.7 76.2 114.2

167 13.8 11.2 16.8



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

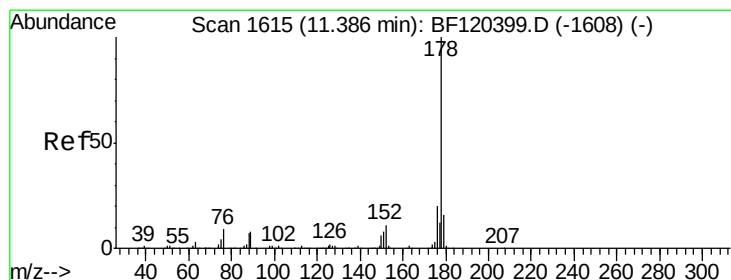
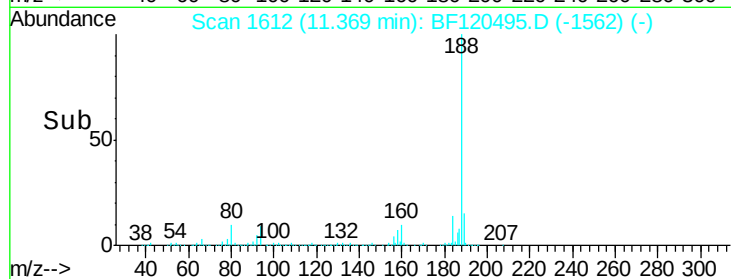
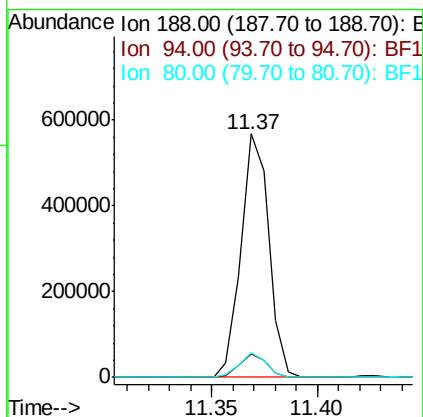
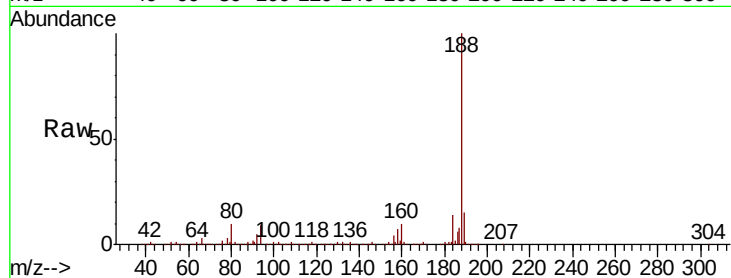




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1612
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

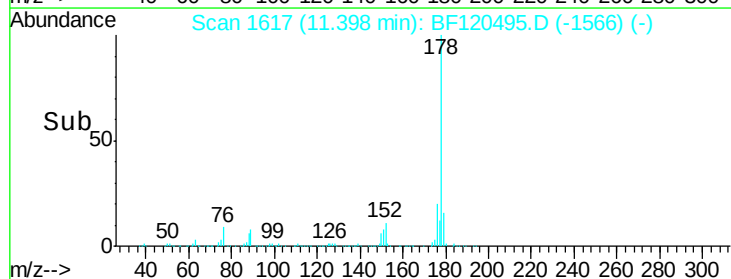
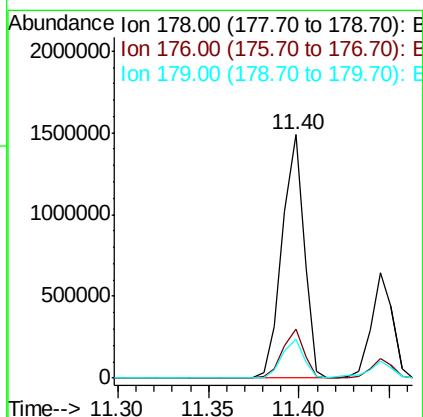
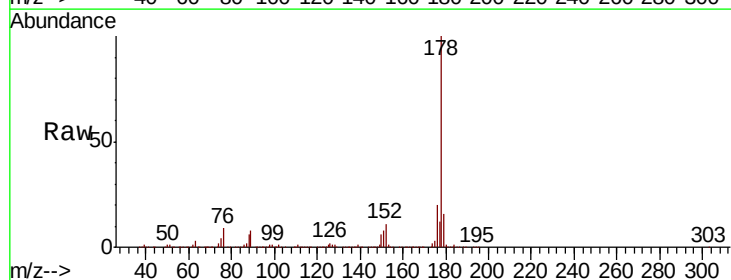
Instrument :
BNA_F
ClientSampleId :

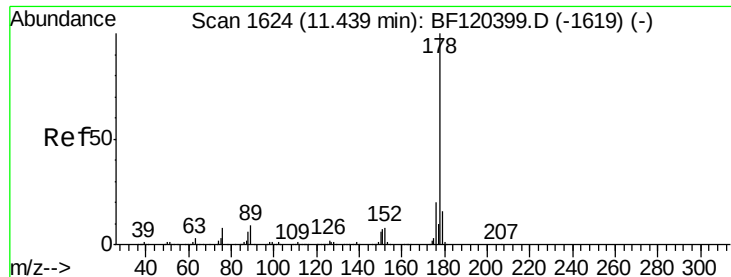
Tot Ion:188 Resp: 518010
Ion Ratio Lower Upper
188 100
94 9.5 6.6 10.0
80 10.3 7.1 10.7



#71
Phenanthrene
Concen: 55.329 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion:178 Resp: 1262887
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.2
179 15.9 12.8 19.2





#72

Anthracene

Concen: 22.493 ng

RT: 11.45 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

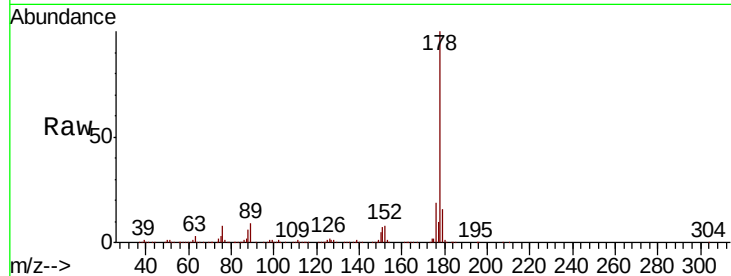
Tot Ion:178 Resp: 515122

Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

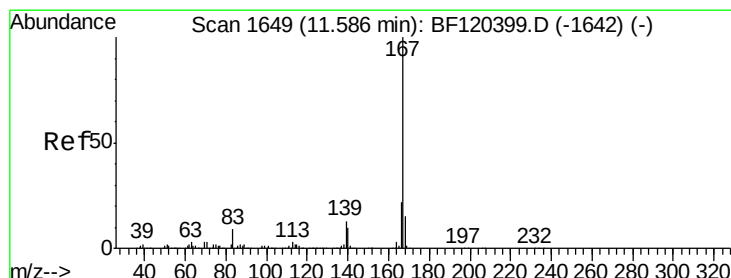
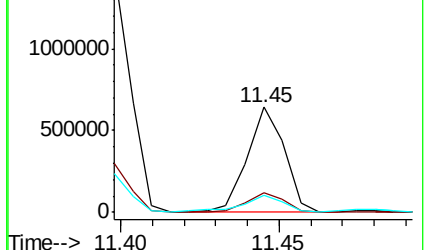
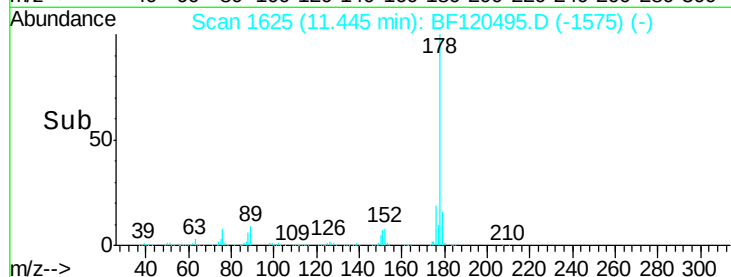
179 15.8 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.794 ng

RT: 11.60 min Scan# 1651

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

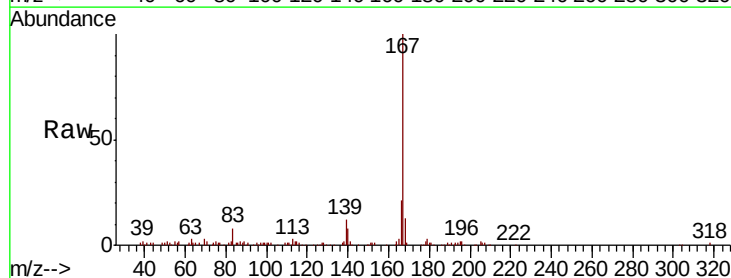
Tgt Ion:167 Resp: 84040

Ion Ratio Lower Upper

167 100

166 20.7 17.8 26.8

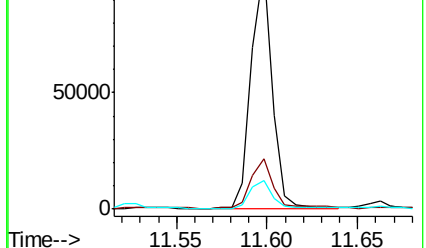
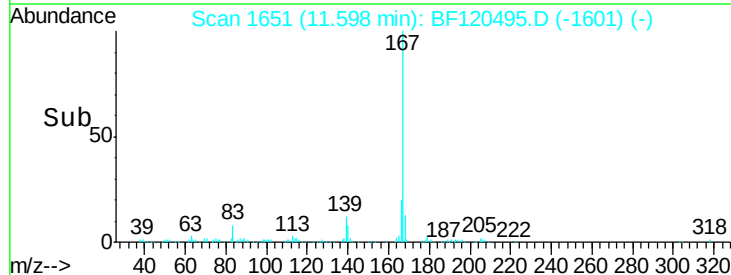
139 11.6 10.3 15.5

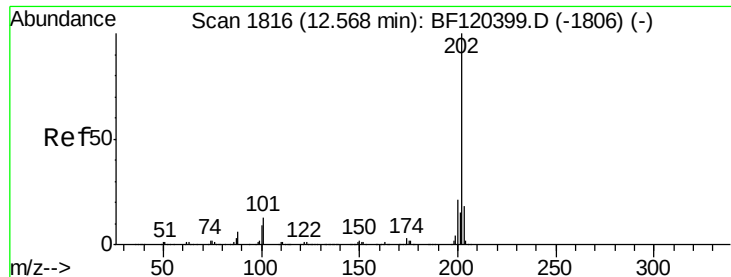


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 75.038 ng

RT: 12.59 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

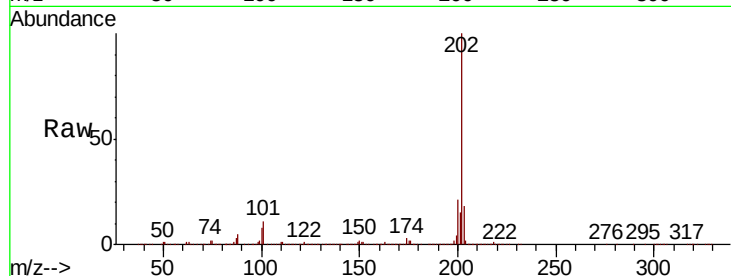
Instrument :

BNA_F

ClientSampled :

Tot Ion:202 Resp: 1842947

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.4
203	18.3	0.0	38.8

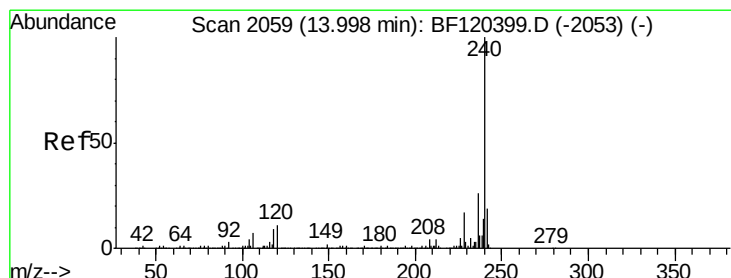
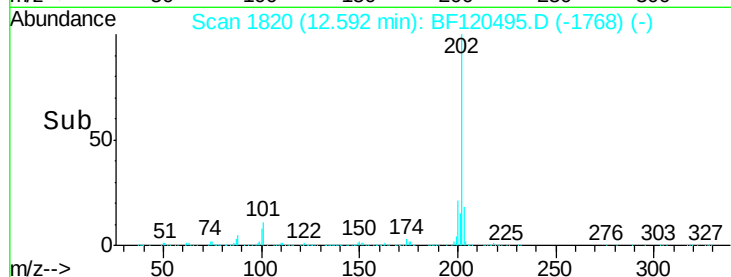
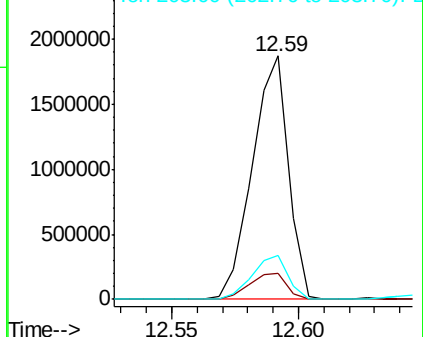


Abundance

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: 14.02 min Scan# 2062

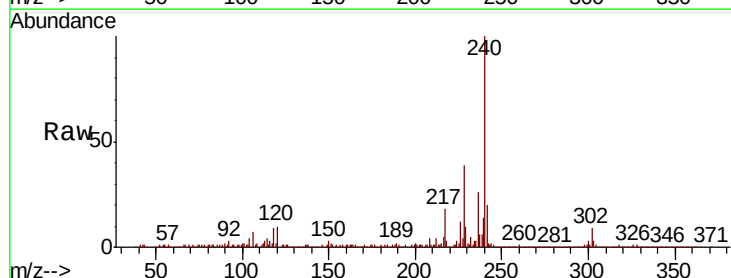
Delta R.T. -0.00 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Tgt Ion:240 Resp: 369521

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.9	14.9
236	26.1	21.0	31.6

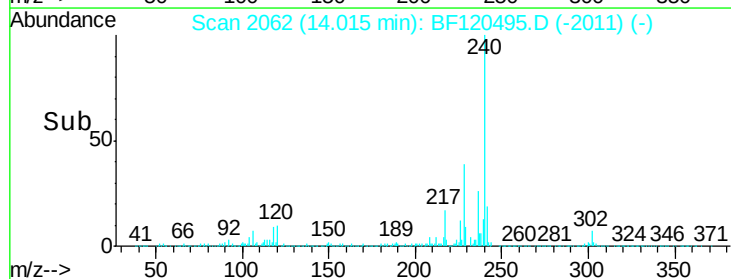
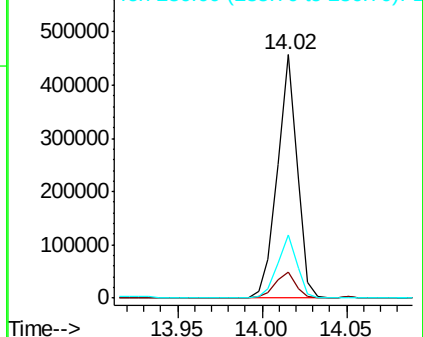


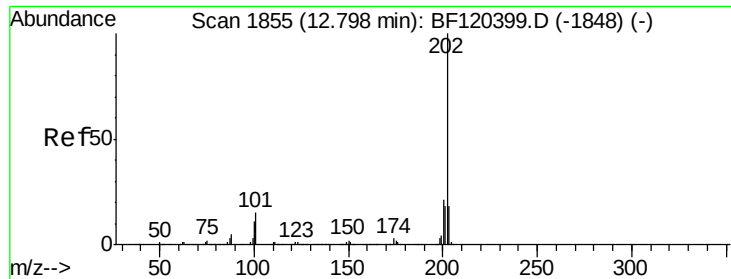
Abundance

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

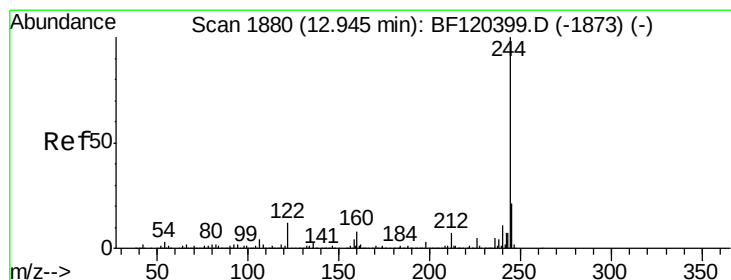
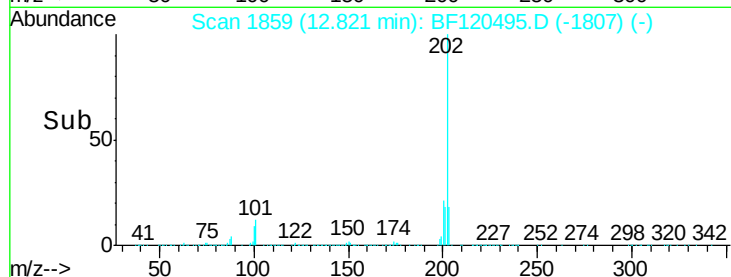
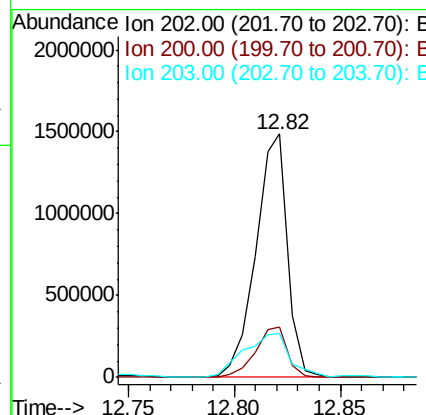
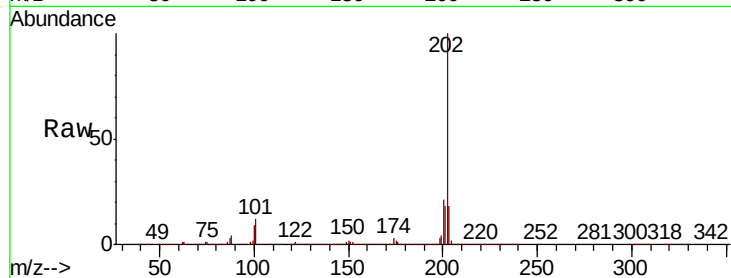




#78
Pvrene
Concen: 60.151 ng
RT: 12.82 min Scan# 1859
Delta R.T. 0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

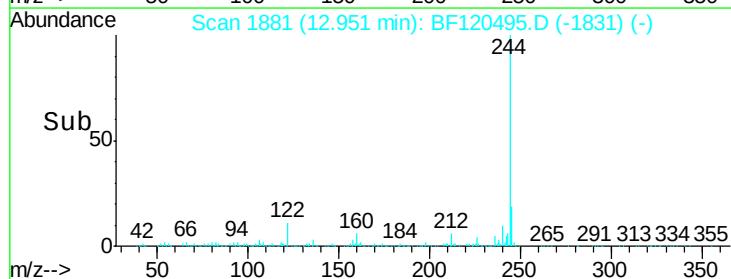
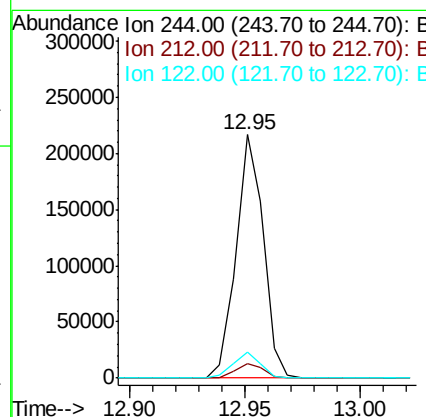
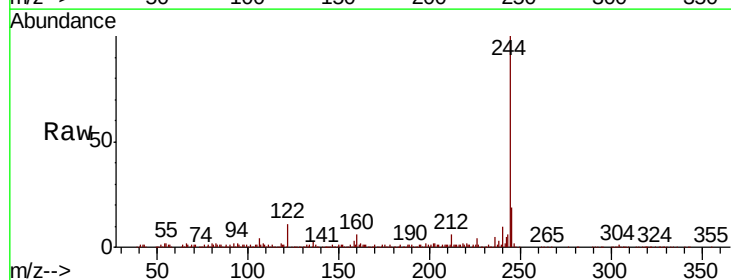
Instrument :
BNA_F
ClientSampleId :

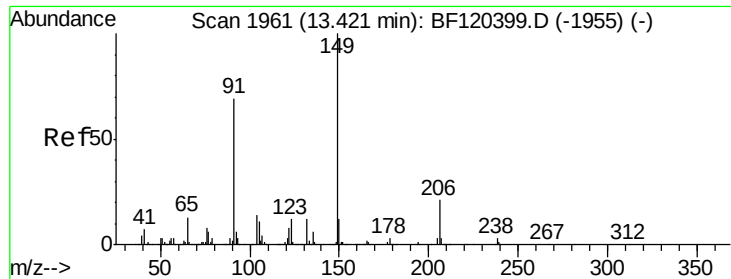
Tot Ion:202 Resp: 1545756
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.6
203 18.1 14.6 22.0



#79
Terphenyl-d14
Concen: 10.753 ng
RT: 12.95 min Scan# 1881
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion:244 Resp: 178556
Ion Ratio Lower Upper
244 100
212 6.2 5.8 8.8
122 10.9 8.7 13.1

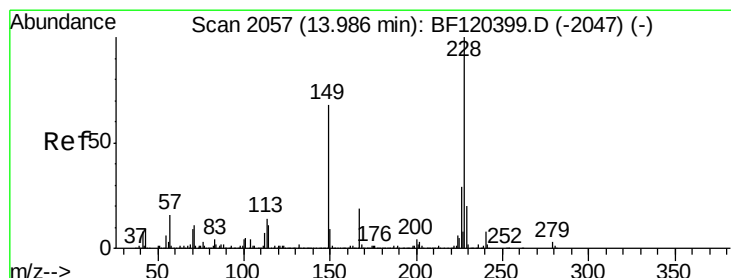
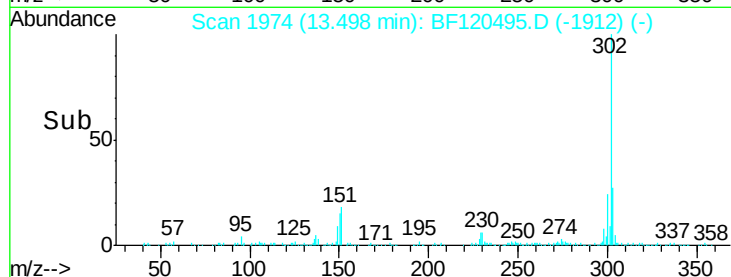
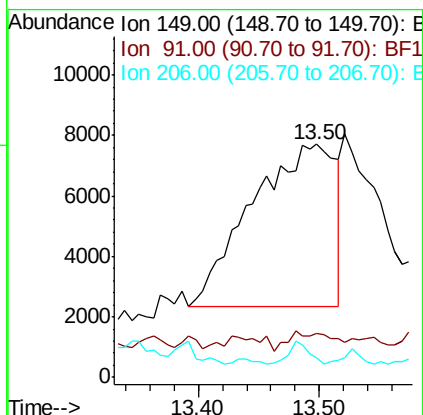
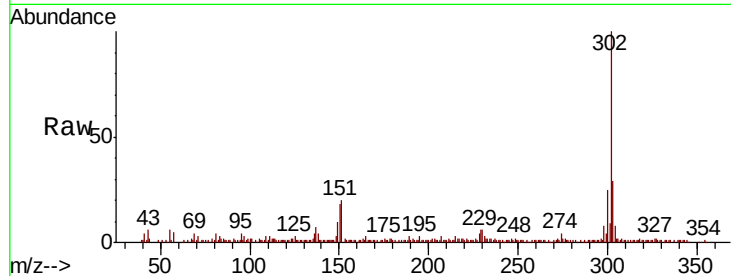




#80
Butylbenzylphthalate
Concen: 2.411 ng
RT: 13.50 min Scan# 1974
Delta R.T. 0.06 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

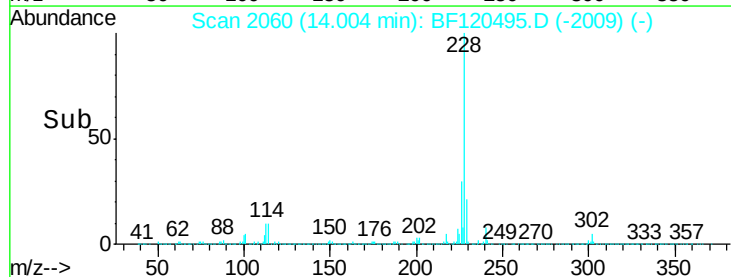
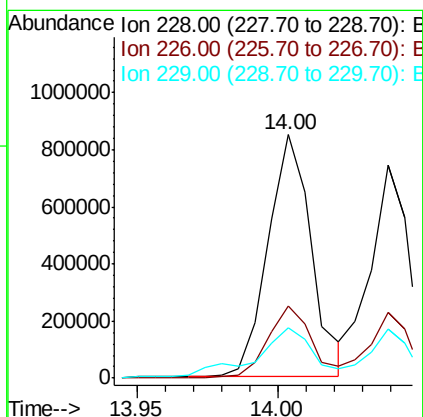
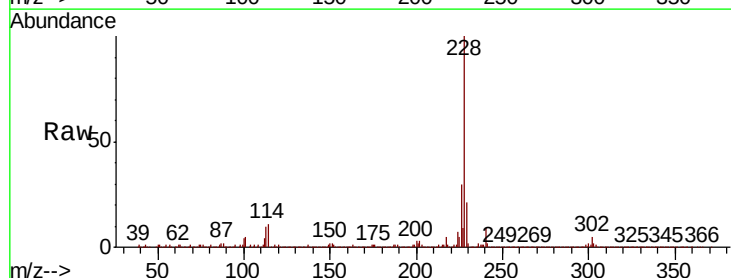
Instrument :
BNA_F
ClientSampleID :

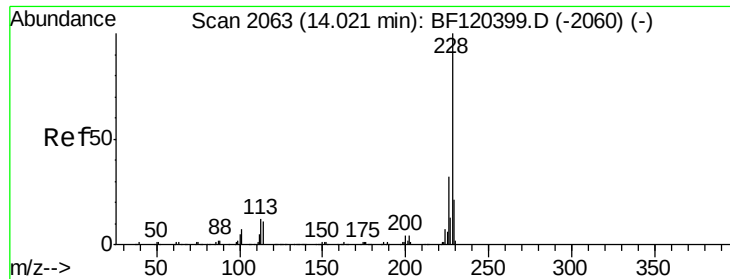
Tot Ion:149 Resp: 25862
Ion Ratio Lower Upper
149 100
91 18.7 52.2 78.2#
206 8.4 18.0 27.0#



#81
Benzo(a)anthracene
Concen: 45.923 ng
RT: 14.00 min Scan# 2060
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion:228 Resp: 909475
Ion Ratio Lower Upper
228 100
226 29.7 22.9 34.3
229 20.9 16.3 24.5

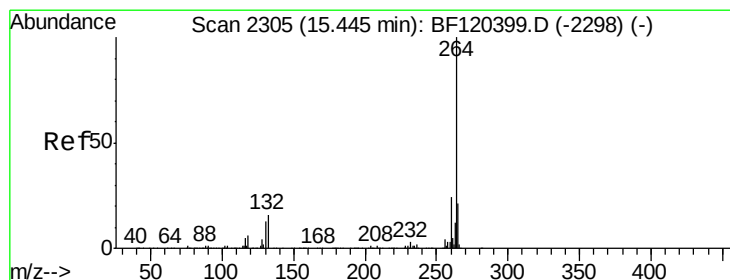
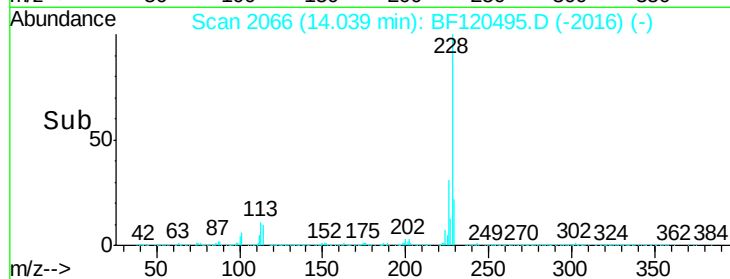
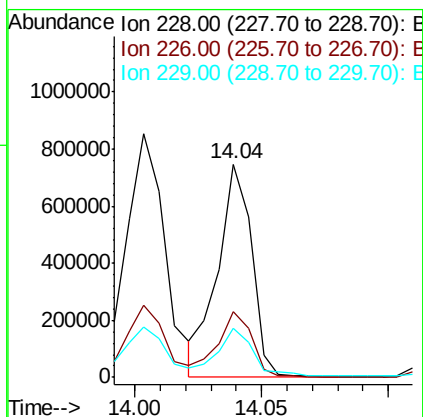
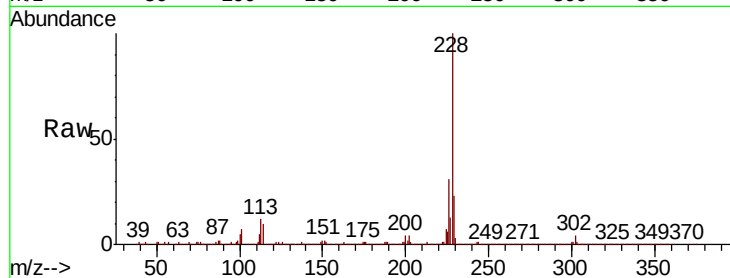




#83
Chrysene
Concen: 33.444 ng
RT: 14.04 min Scan# 2066
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

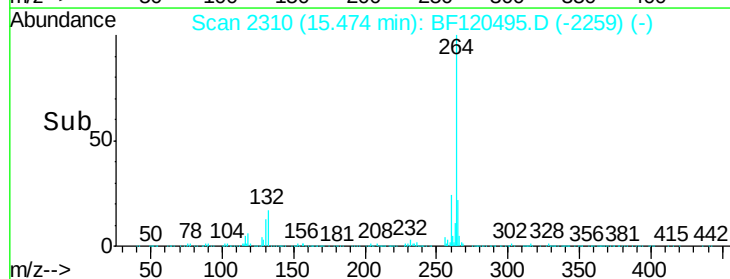
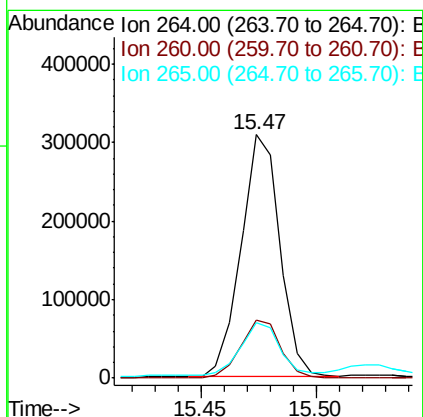
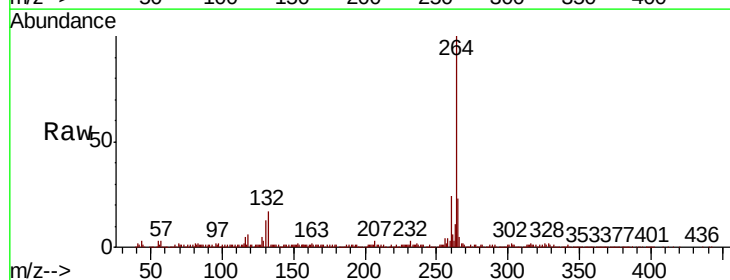
Instrument :
BNA_F
ClientSampleId :

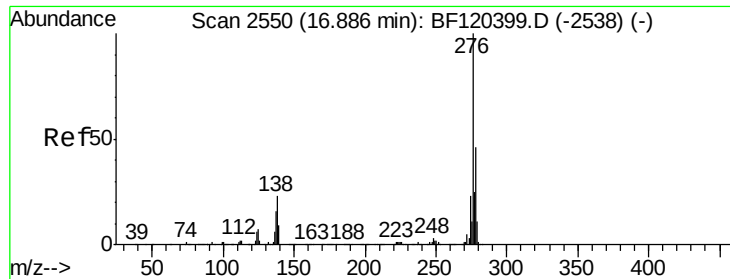
Tot Ion:228 Resp: 694378
Ion Ratio Lower Upper
228 100
226 30.9 25.7 38.5
229 23.1 16.4 24.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2310
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion:264 Resp: 363290
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 22.6 17.6 26.4

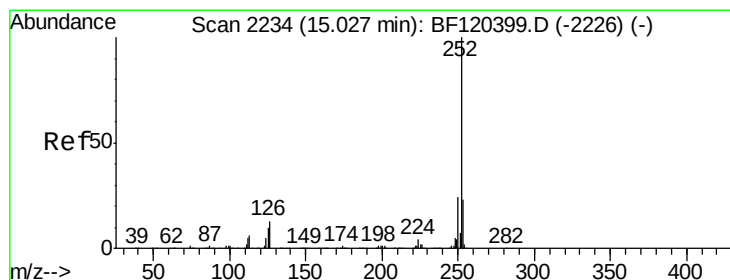
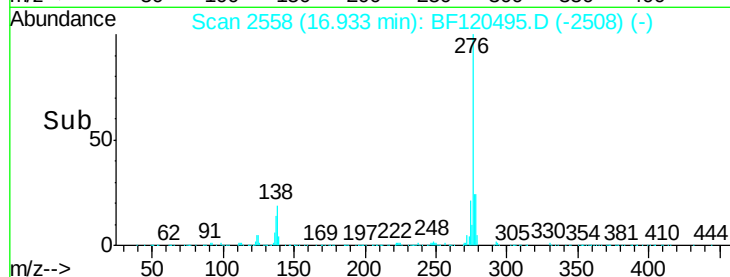
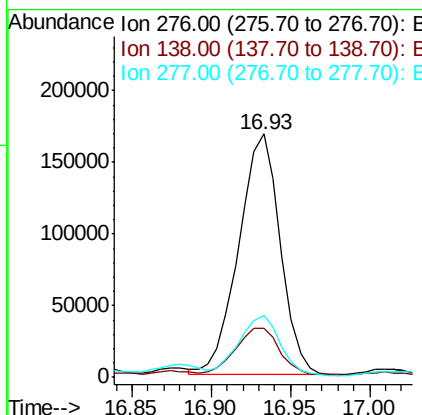
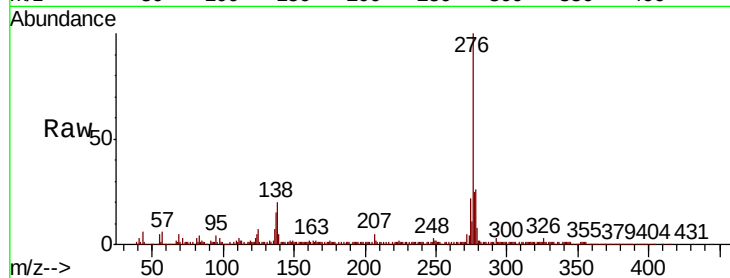




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 15.348 ng
 RT: 16.93 min Scan# 2558
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

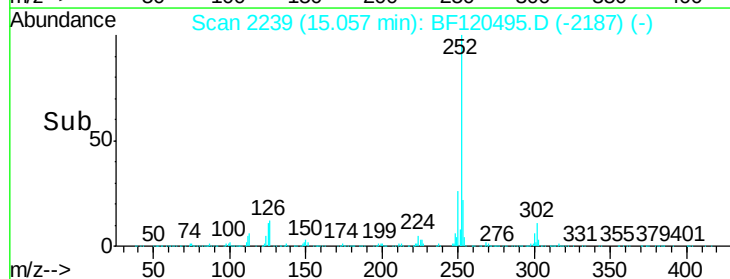
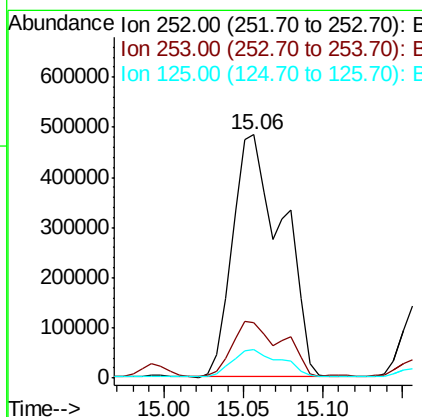
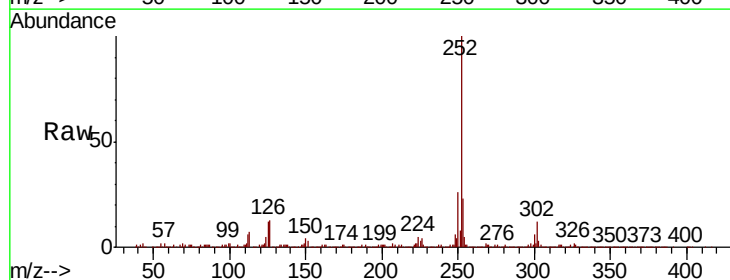
Instrument :
 BNA_F
 ClientSampleId :

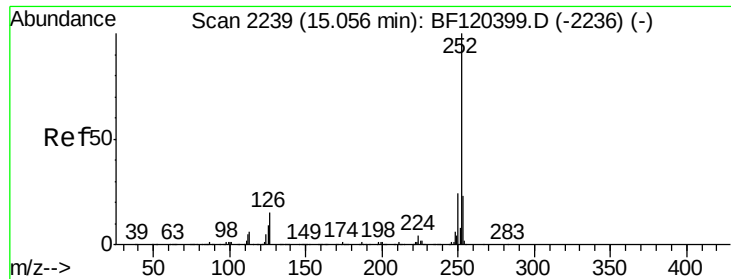
Tot Ion:276 Resp: 304967
 Ion Ratio Lower Upper
 276 100
 138 21.3 19.3 28.9
 277 24.8 20.7 31.1



#88
 Benzo(b)fluoranthene
 Concen: 52.064 ng
 RT: 15.06 min Scan# 2239
 Delta R.T. 0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion:252 Resp: 1050556
 Ion Ratio Lower Upper
 252 100
 253 22.7 18.2 27.2
 125 11.7 8.2 12.4

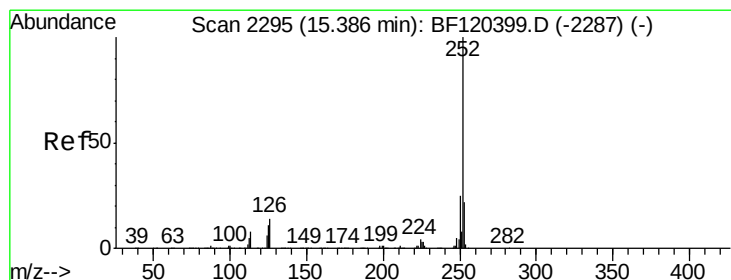
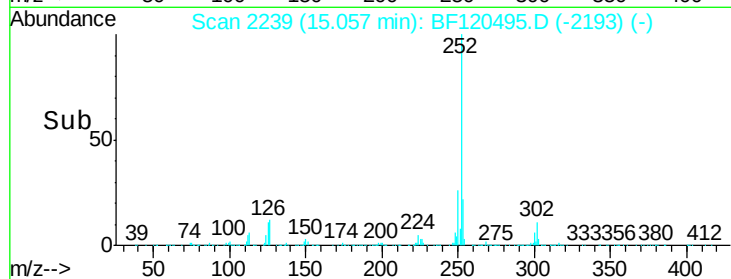
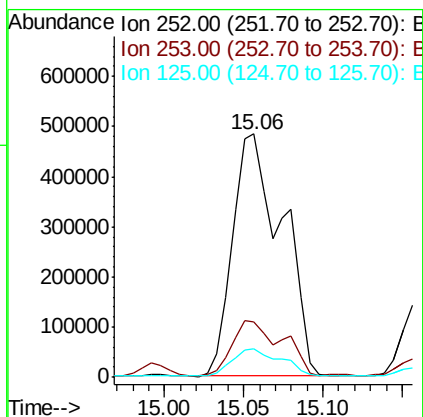
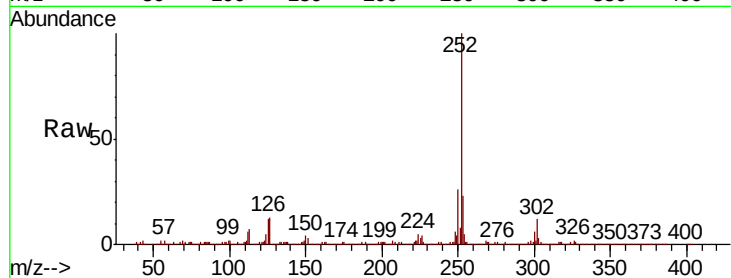




#89
Benzo(k)fluoranthene
Concen: 55.770 ng
RT: 15.06 min Scan# 2239
Delta R.T. -0.03 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

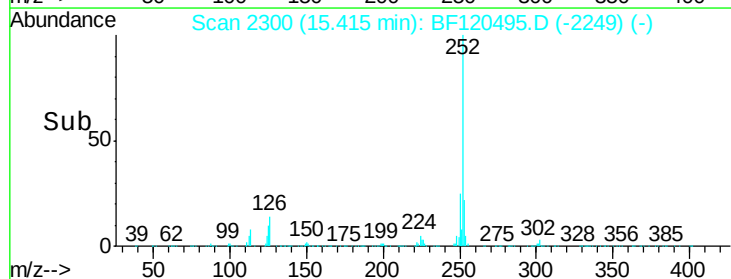
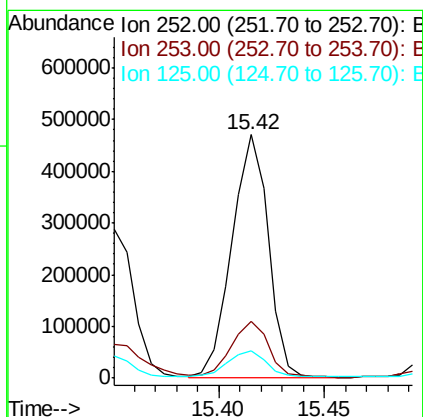
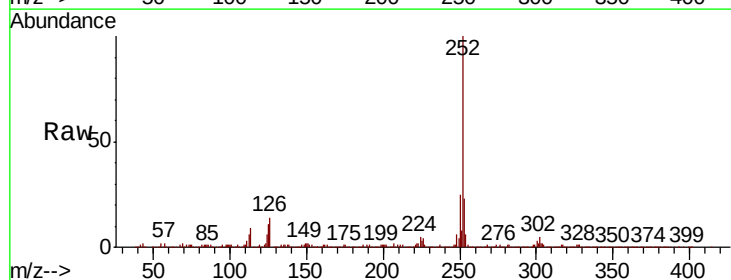
Instrument :
BNA_F
ClientSampleId :

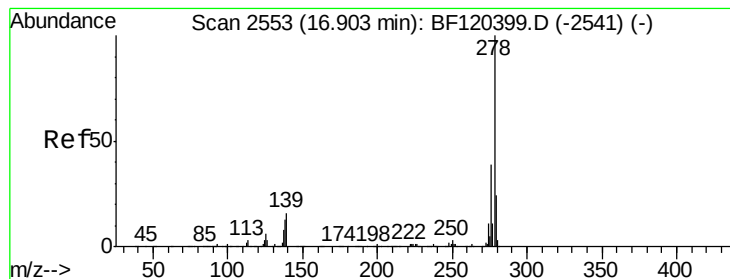
Tot Ion:252 Resp: 1050556
Ion Ratio Lower Upper
252 100
253 22.7 17.8 26.6
125 11.7 7.1 10.7#



#90
Benzo(a)pyrene
Concen: 31.601 ng
RT: 15.42 min Scan# 2300
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion:252 Resp: 557757
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 11.0 9.0 13.4





#91

Dibenzo(a,h)anthracene

Concen: 5.713 ng

RT: 16.94 min Scan# 2559

Delta R.T. -0.02 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

ClientSampleId :

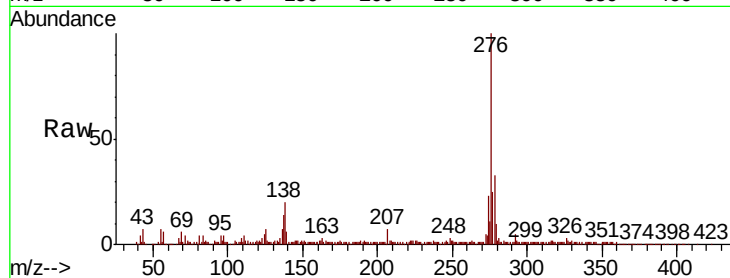
Tot Ion:278 Resp: 92548

Ion Ratio Lower Upper

278 100

139 18.8 12.2 18.4#

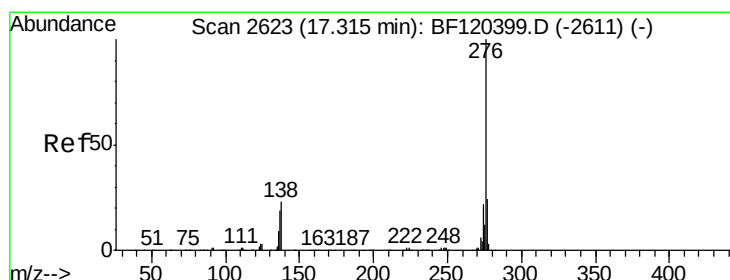
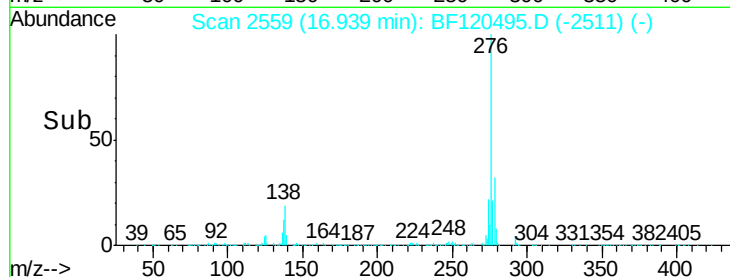
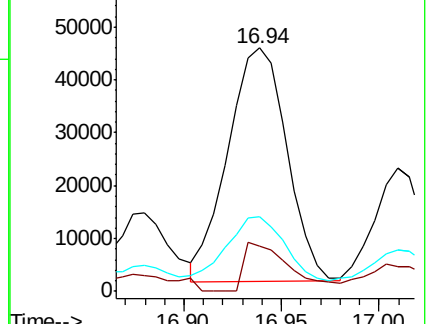
279 30.6 18.8 28.2#



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: 16.062 ng

RT: 17.37 min Scan# 2633

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

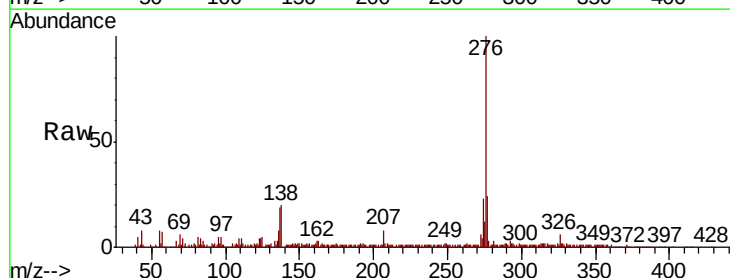
Tgt Ion:276 Resp: 256637

Ion Ratio Lower Upper

276 100

277 24.0 18.8 28.2

138 20.3 16.8 25.2



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

