

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF042020\
 Data File : BF120084.D
 Acq On : 20 Apr 2020 18:12
 Operator : MA/SJ
 Sample : L2314-15
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 21 01:03:52 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 14:10:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	142777	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	556052	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	305822	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	539024	20.00	ng	-0.01
76) Chrysene-d12	13.89	240	355614	20.00	ng	-0.01
87) Perylene-d12	15.31	264	326356	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	684914	82.90	ng	0.00
7) Phenol-d6	6.36	99	870589	81.78	ng	0.00
23) Nitrobenzene-d5	7.28	82	510230	47.47	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	221956	59.28	ng	-0.01
45) 2-Fluorobiphenyl	9.08	172	1009065	46.85	ng	0.00
79) Terphenyl-d14	12.83	244	1077708	50.99	ng	-0.01

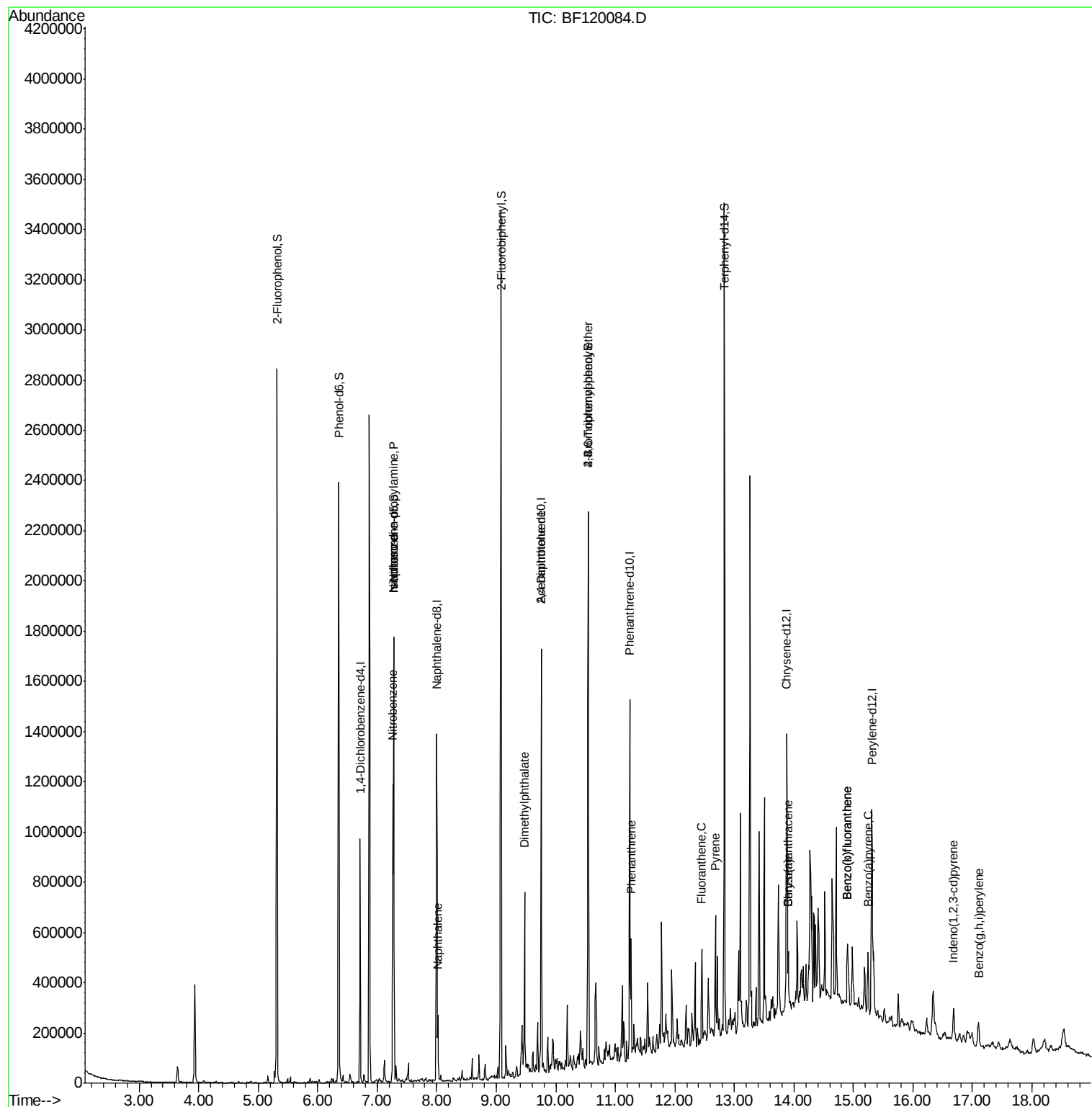
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.26	77	2165	Below Cal		# 38
19) n-Nitroso-di-n-propylamine	7.28	70	66766	9.753	ng	# 81
24) Nitrobenzene	7.26	77	45007	4.163	ng	# 47
25) Isophorone	7.28	82	504886	24.367	ng	# 65
31) Naphthalene	8.02	128	101023	3.453	ng	99
50) Dimethylphthalate	9.47	163	226307	9.567	ng	100
57) 2,4-Dinitrotoluene	9.76	165	40507	5.935	ng	# 22
67) 4-Bromophenyl-phenylether	10.55	248	14844	2.214	ng	# 1
71) Phenanthrene	11.26	178	153819	5.362	ng	100
75) Fluoranthene	12.46	202	154989	5.007	ng	95
78) Pyrene	12.68	202	201826	6.732	ng	98
81) Benzo(a)anthracene	13.91	228	102698	4.390	ng	96
83) Chrysene	13.91	228	102698	4.320	ng	96
86) Indeno(1,2,3-cd)pyrene	16.68	276	68479	3.268	ng	96
88) Benzo(b)fluoranthene	14.90	252	168303	7.169	ng	# 96
89) Benzo(k)fluoranthene	14.90	252	168303	8.309	ng	# 96
90) Benzo(a)pyrene	15.24	252	105205	5.330	ng	98
92) Benzo(g,h,i)perylene	17.10	276	69265	4.013	ng	94

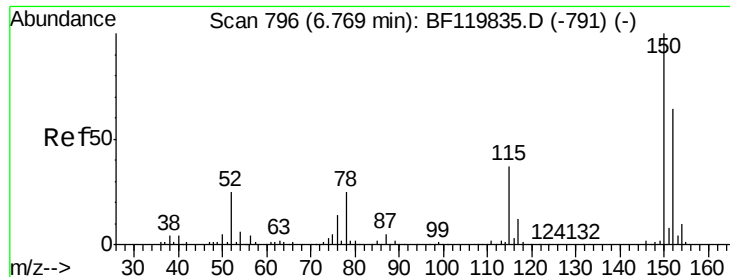
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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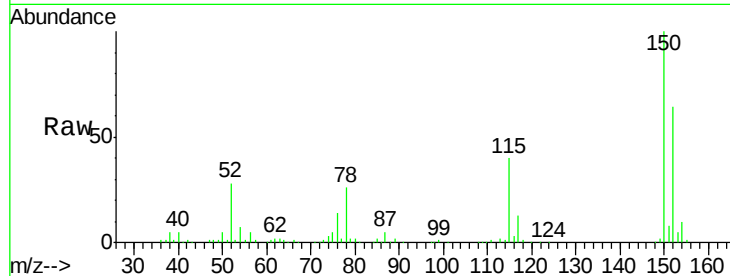


#1

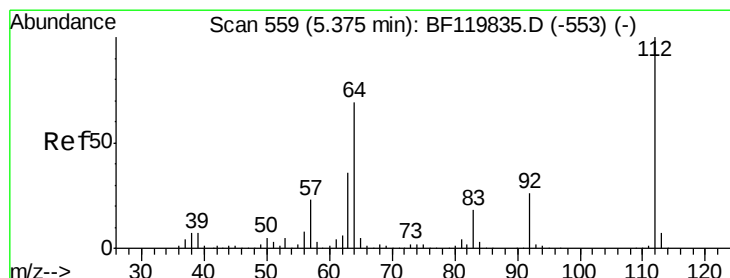
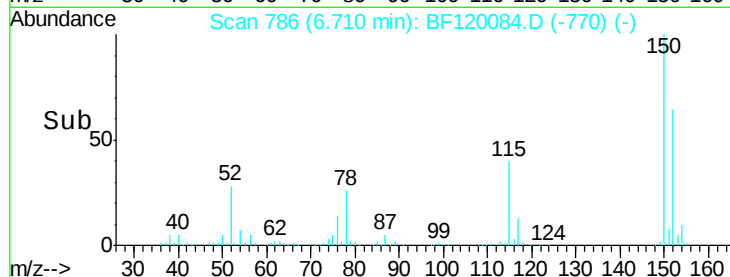
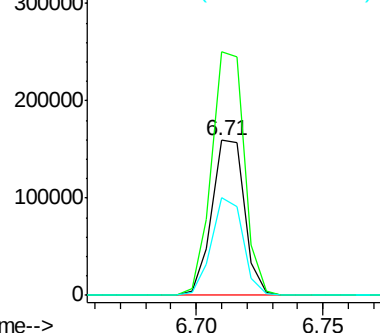
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.01 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 142777
Ion Ratio Lower Upper
152 100
150 157.0 124.8 187.2
115 63.2 46.5 69.7



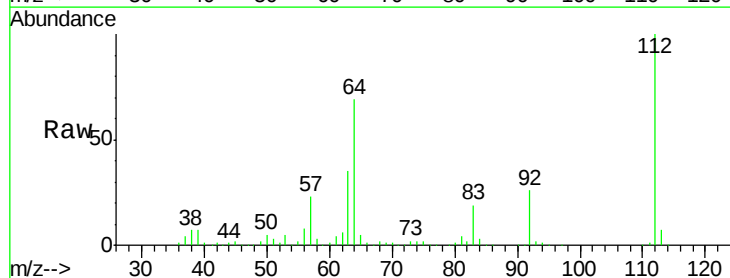
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



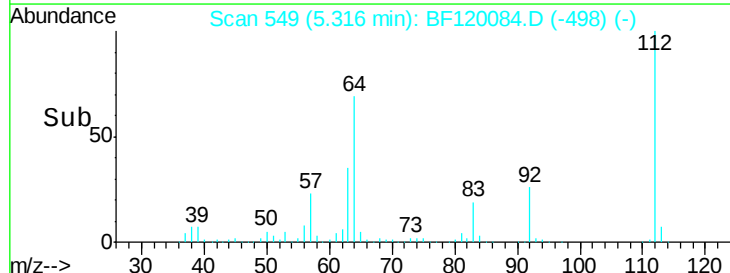
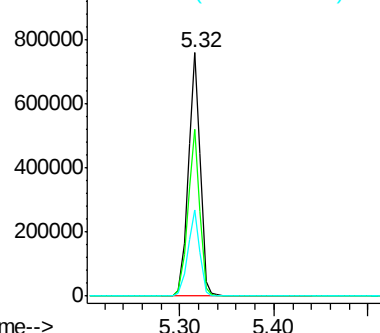
#5

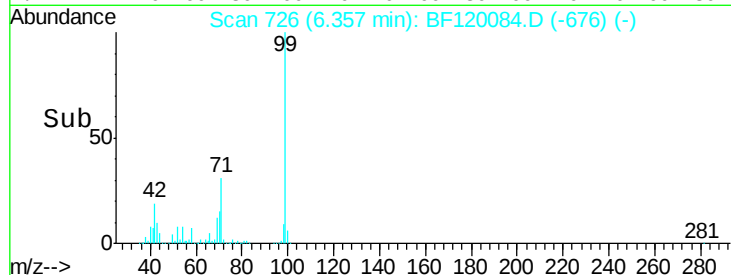
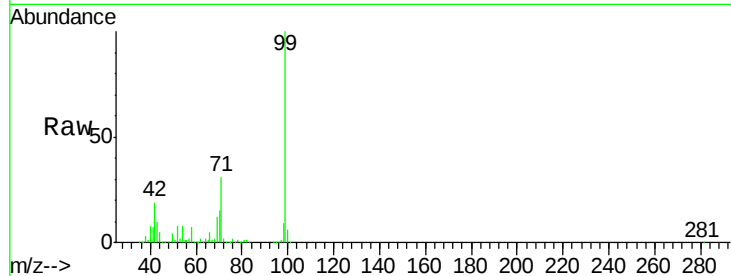
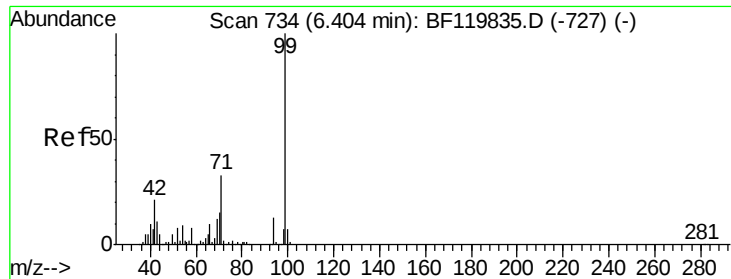
2-Fluorophenol
Concen: 82.903 ng
RT: 5.32 min Scan# 549
Delta R.T. 0.00 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

Tgt Ion:112 Resp: 684914
Ion Ratio Lower Upper
112 100
64 68.8 55.5 83.3
63 35.2 29.1 43.7



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: 81.779 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

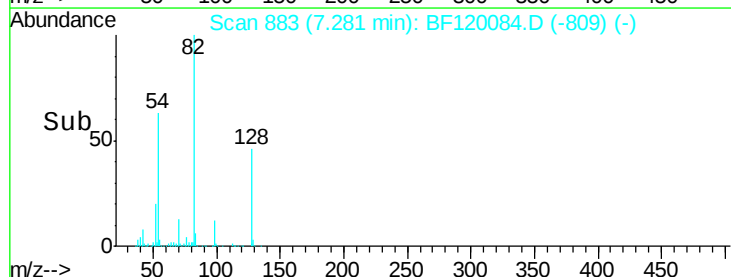
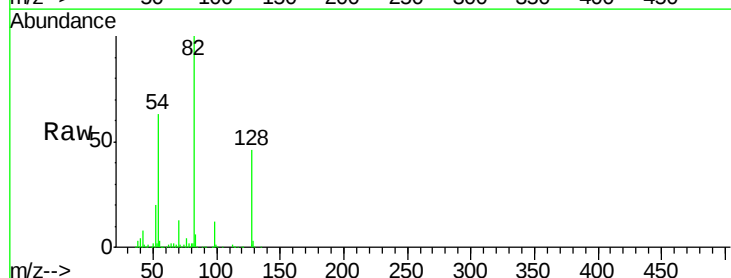
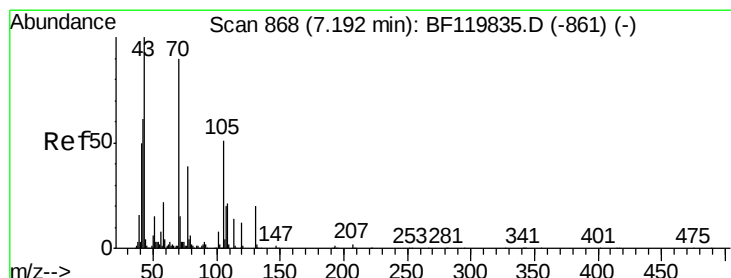
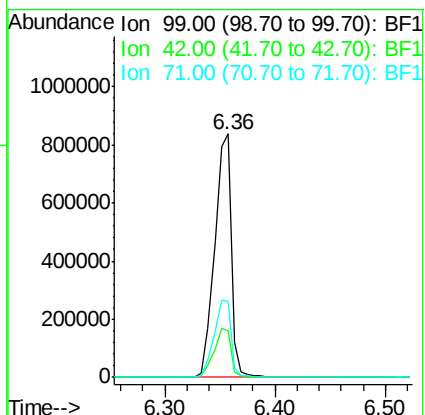
Tot Ion: 99 Resp: 870589

Ion Ratio Lower Upper

99 100

42 18.9 16.9 25.3

71 31.4 26.3 39.5



#19

n-Nitroso-di-n-propylamine

Concen: 9.753 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Tgt Ion: 70 Resp: 66766

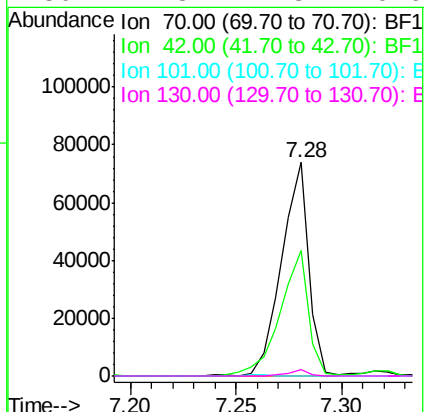
Ion Ratio Lower Upper

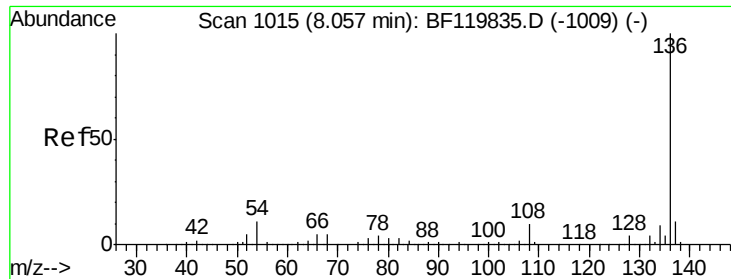
70 100

42 58.9 54.2 81.4

101 0.0 7.4 11.2#

130 2.8 17.8 26.6#

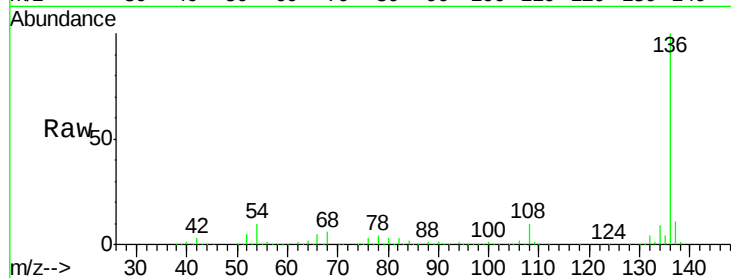




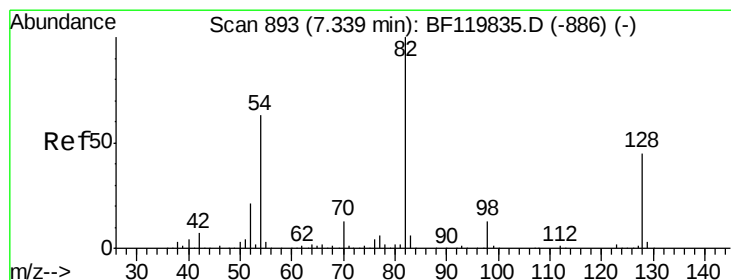
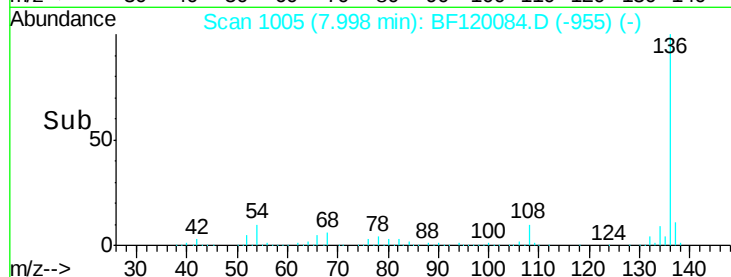
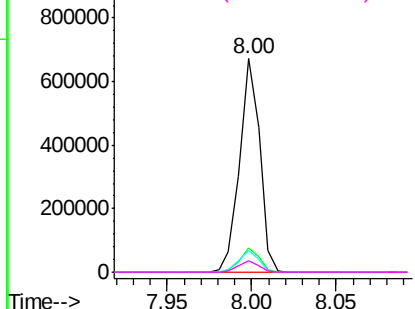
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.01 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:136	Resp:	556052
Ion Ratio	Lower	Upper
136	100	
137	11.4	8.7 13.1
54	10.4	8.5 12.7
68	5.5	3.9 5.9

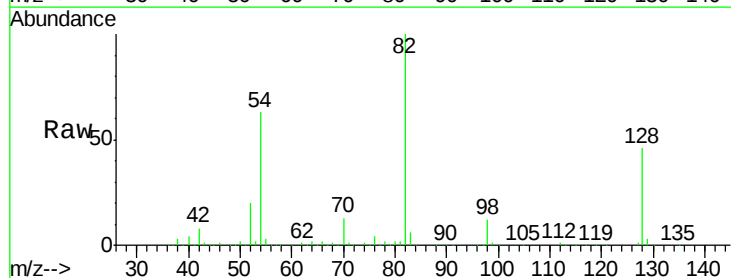


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

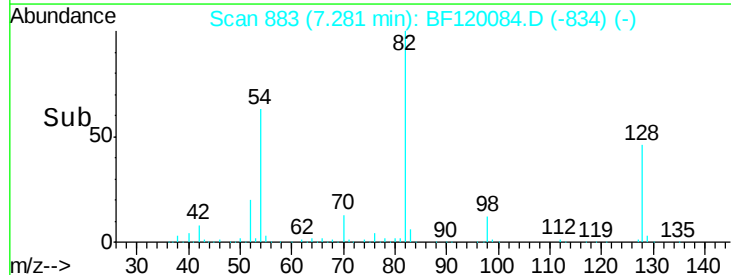
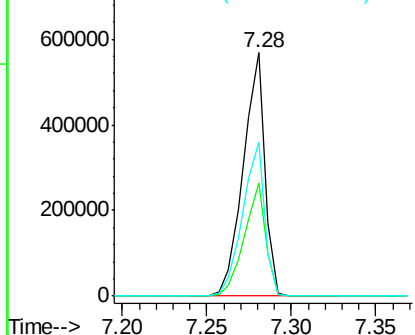


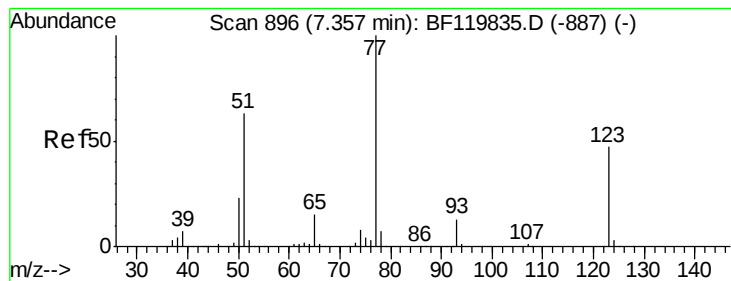
#23
Nitrobenzene-d5
Concen: 47.470 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

Tgt Ion: 82	Resp:	510230
Ion Ratio	Lower	Upper
82	100	
128	46.3	36.2 54.4
54	63.1	50.4 75.6



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





#24

Nitrobenzene

Concen: 4.163 ng

RT: 7.26 min Scan# 880

Delta R.T. -0.05 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

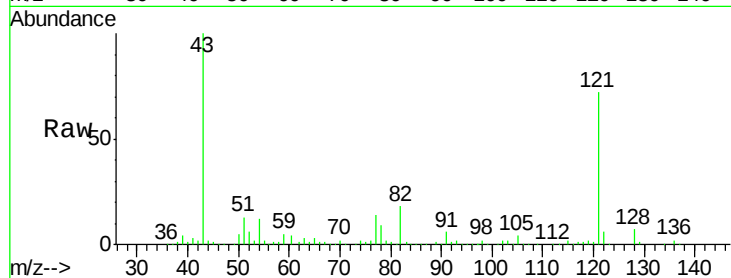
Tot Ion: 77 Resp: 45007

Ion Ratio Lower Upper

77 100

123 2.6 37.8 56.8#

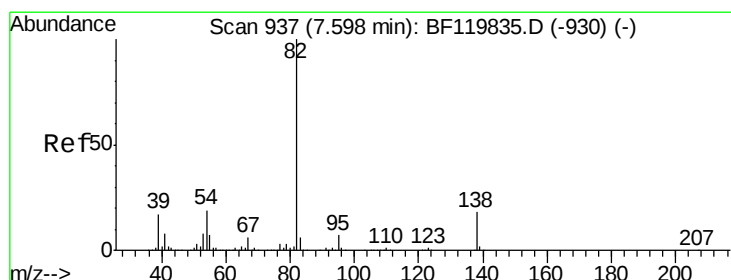
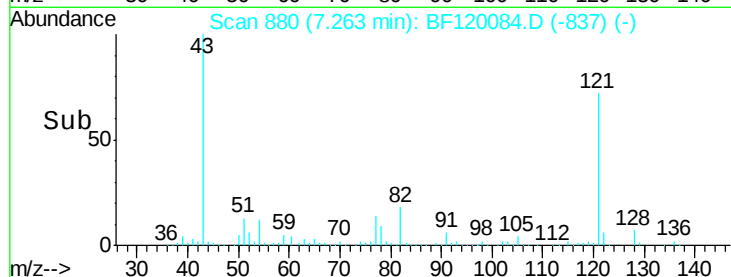
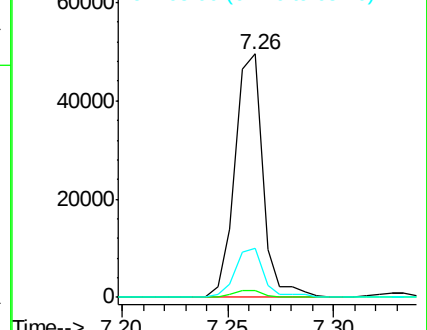
65 20.4 12.2 18.2#



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 123.00 (122.70 to 123.70): BF1

Ion 65.00 (64.70 to 65.70): BF1



#25

Isophorone

Concen: 24.367 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.27 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

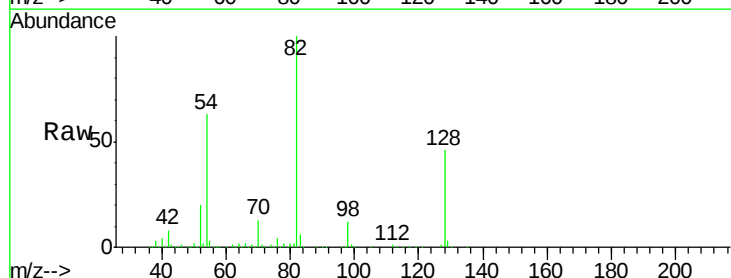
Tgt Ion: 82 Resp: 504886

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

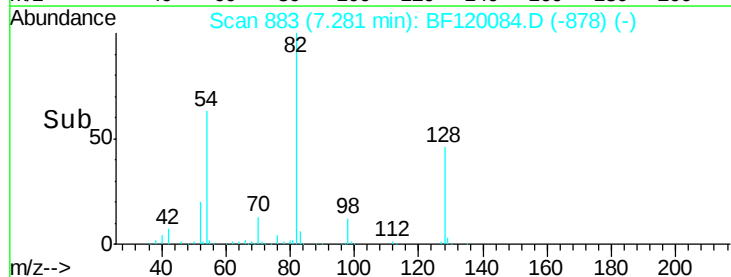
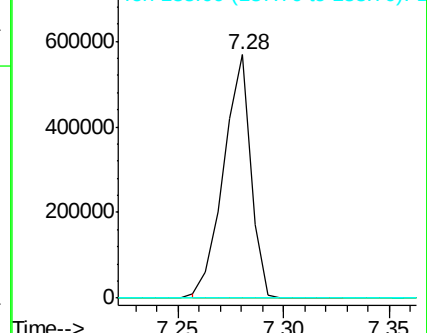
138 0.0 14.5 21.7#

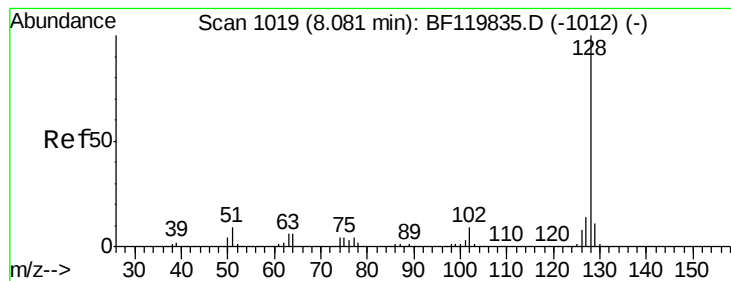


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 3.453 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

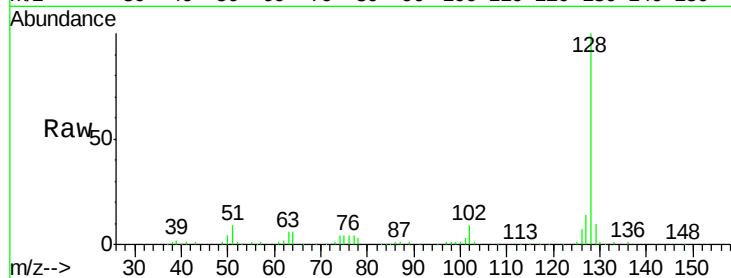
Tot Ion:128 Resp: 101023

Ion Ratio Lower Upper

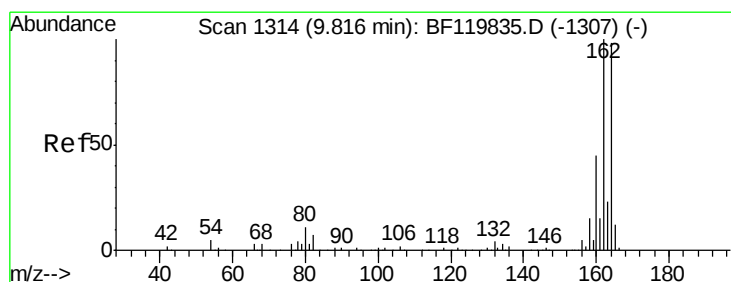
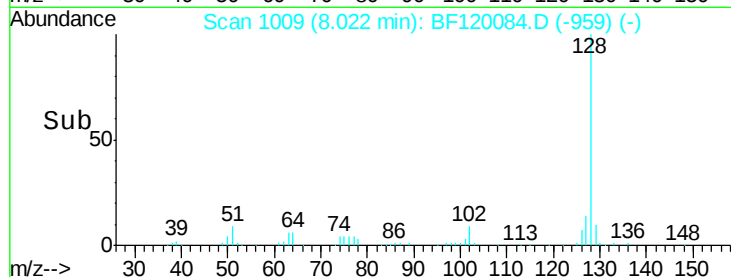
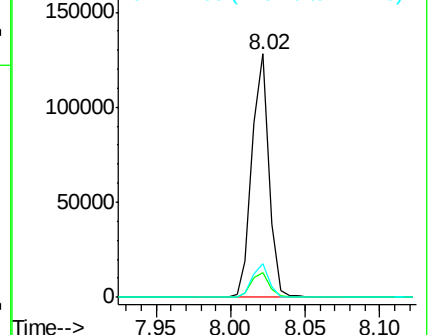
128 100

129 10.2 9.0 13.6

127 13.6 11.0 16.4



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

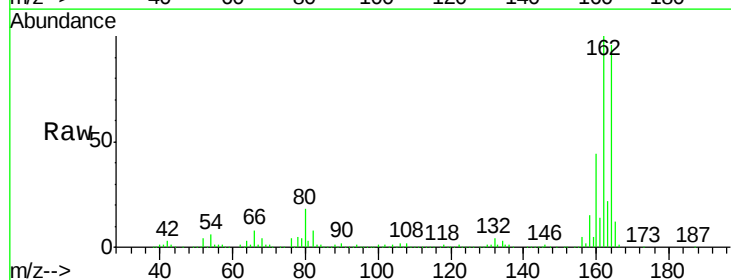
Tgt Ion:164 Resp: 305822

Ion Ratio Lower Upper

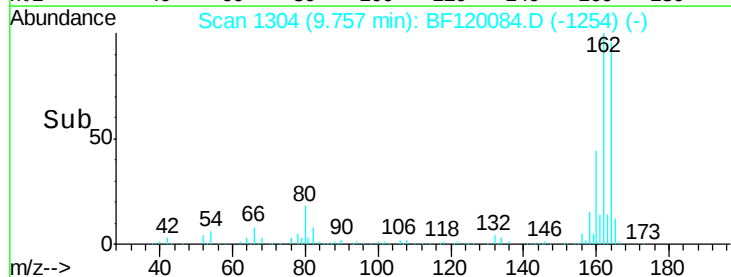
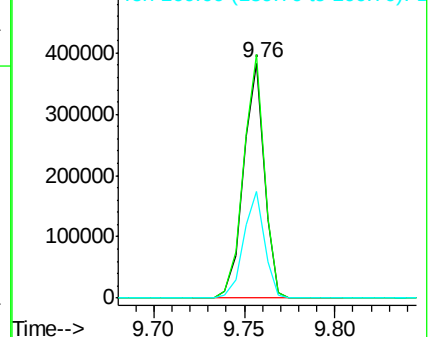
164 100

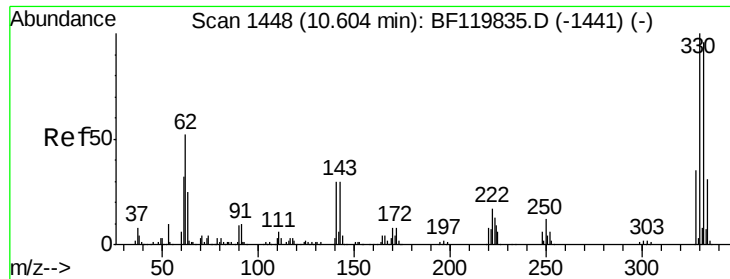
162 103.7 81.9 122.9

160 45.6 36.6 54.8



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

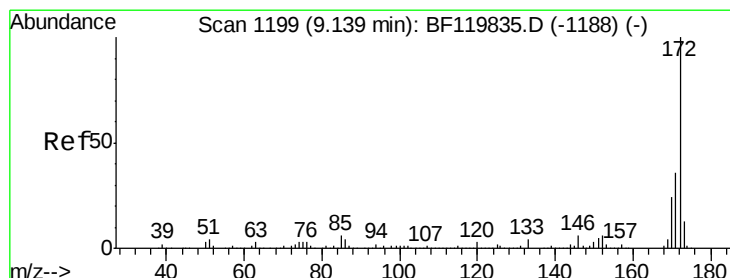
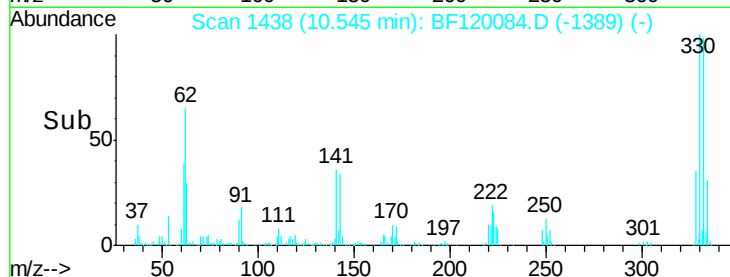
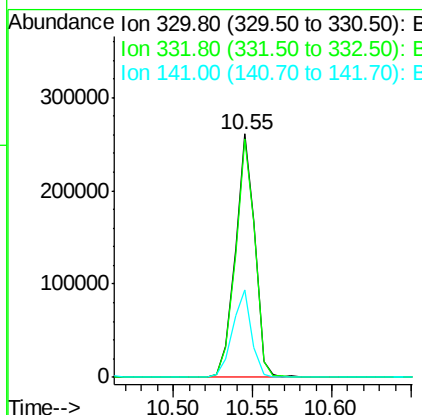
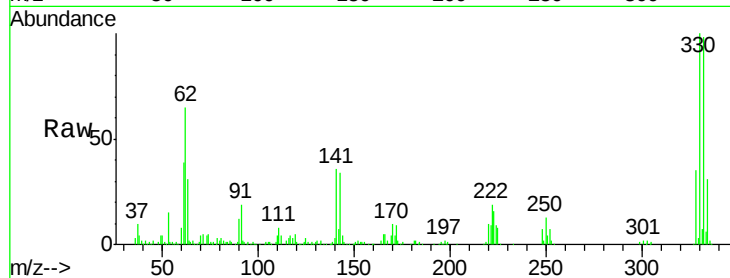




#42
 2,4,6-Tribromophenol
 Concen: 59.278 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF120084.D
 Acq: 20 Apr 2020 18:12

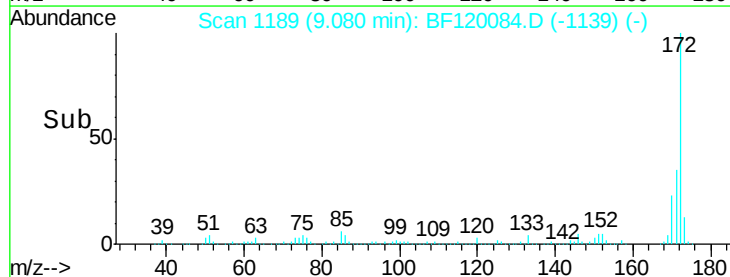
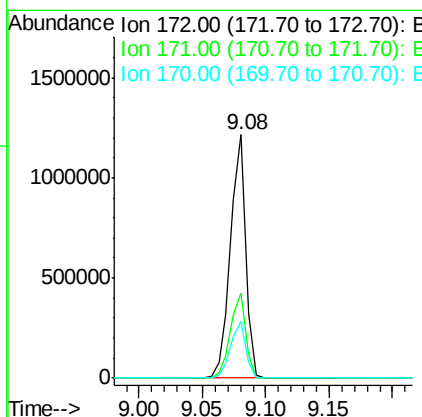
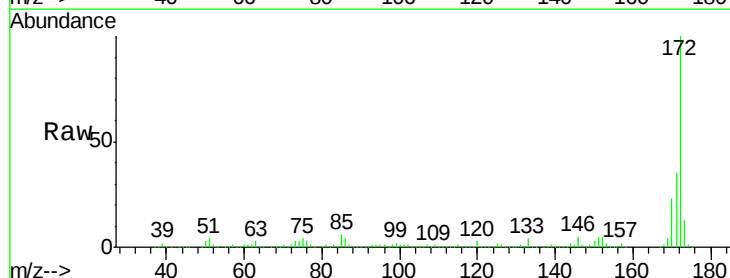
Instrument :
 BNA_F
 ClientSampleId :

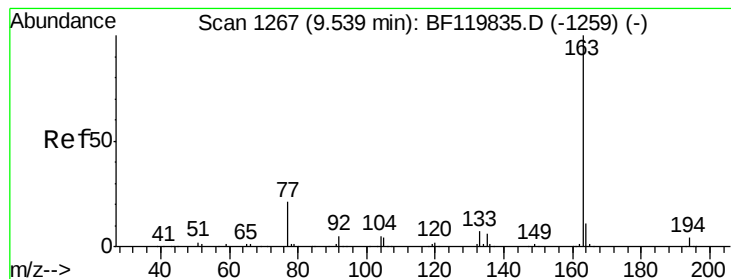
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.8	115.2
141	36.0	25.1	37.7



#45
 2-Fluorobiphenyl
 Concen: 46.846 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF120084.D
 Acq: 20 Apr 2020 18:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.9	43.3
170	23.4	19.4	29.2





#50

Dimethylphthalate

Concen: 9.567 ng

RT: 9.47 min Scan# 1256

Delta R.T. -0.02 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

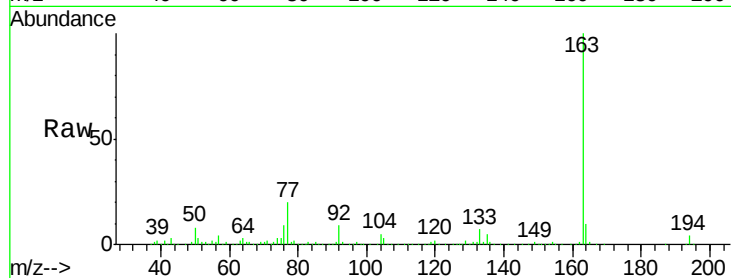
Tot Ion:163 Resp: 226307

Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.4

164 10.3 8.4 12.6



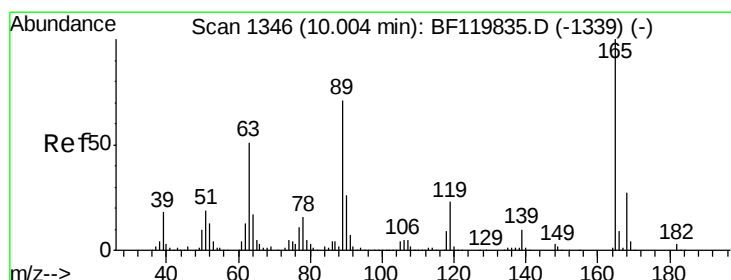
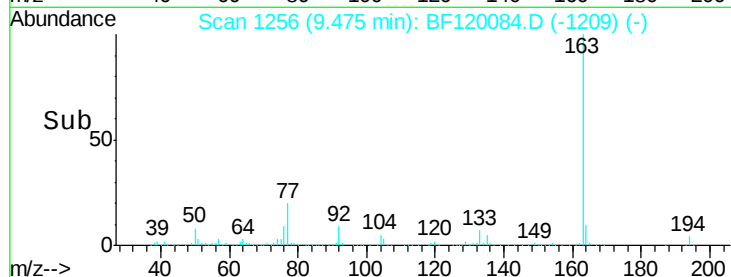
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

9.47

Time-->



#57

2,4-Dinitrotoluene

Concen: 5.935 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.21 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Tgt Ion:165 Resp: 40507

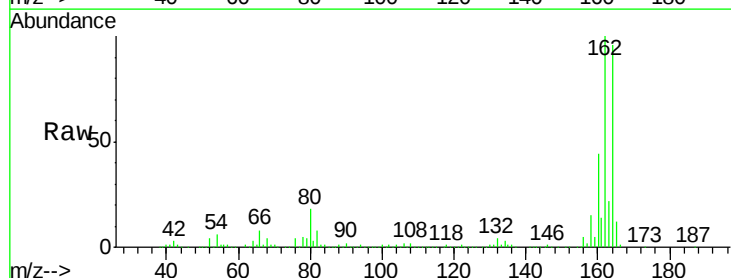
Ion Ratio Lower Upper

165 100

63 1.2 40.8 61.2#

89 1.4 56.9 85.3#

182 0.0 2.0 3.0#



Abundance Ion 165.00 (164.70 to 165.70): E

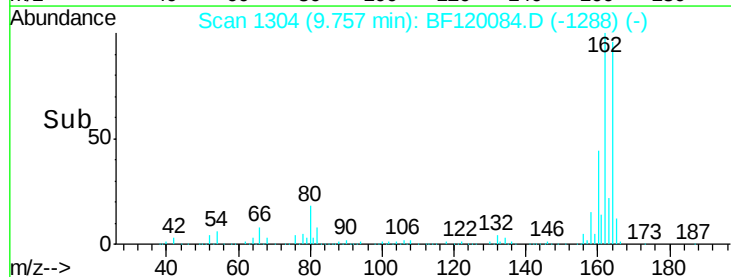
Ion 63.00 (62.70 to 63.70): BF1

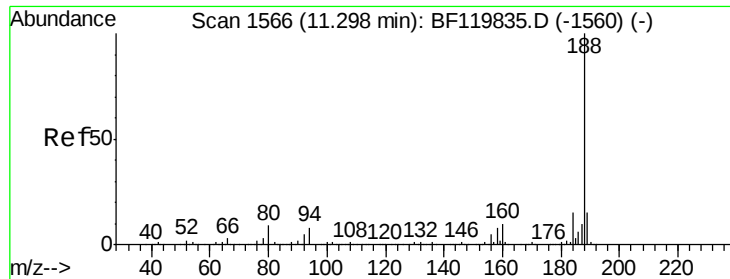
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

9.76

Time-->





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

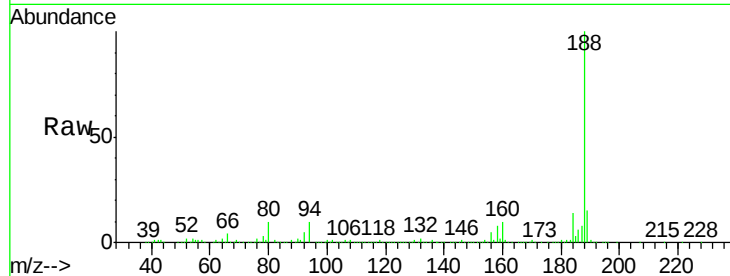
Tot Ion:188 Resp: 539024

Ion Ratio Lower Upper

188 100

94 9.7 6.7 10.1

80 10.4 7.4 11.2



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

800000

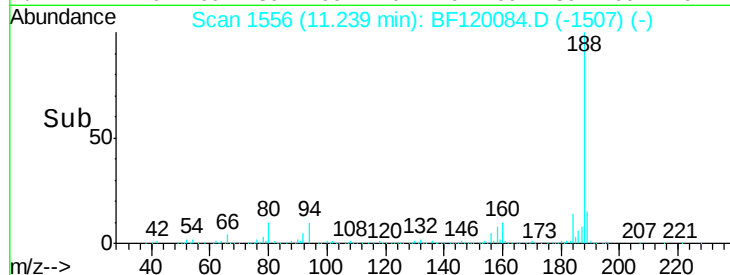
600000

400000

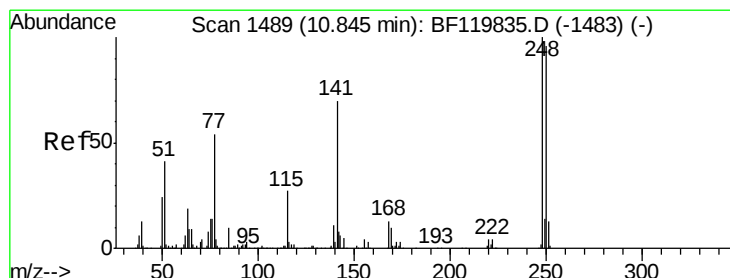
200000

0

11.20 11.25 11.30



Time-->



#67

4-Bromophenyl-phenylether

Concen: 2.214 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.25 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

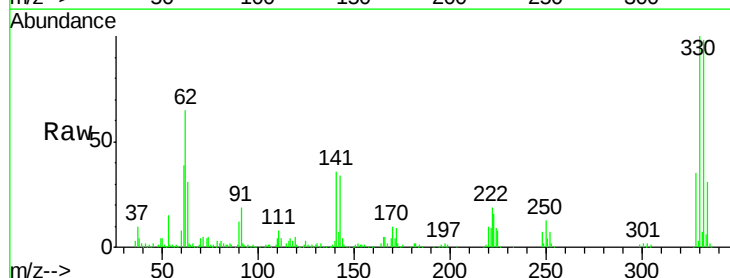
Tgt Ion:248 Resp: 14844

Ion Ratio Lower Upper

248 100

250 187.9 76.6 114.8#

141 502.9 55.9 83.9#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

120000

100000

80000

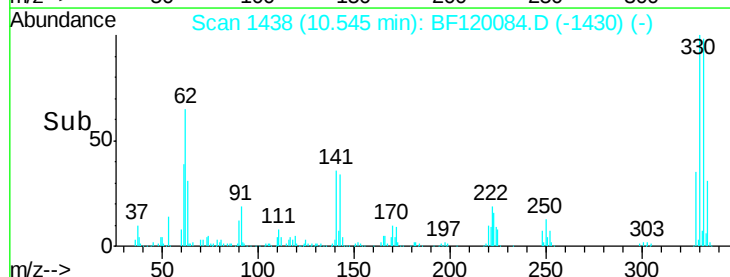
60000

40000

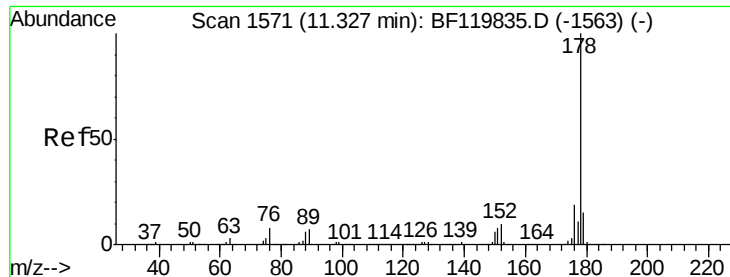
20000

0

10.50 10.55



Time-->



#71

Phenanthrene

Concen: 5.362 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

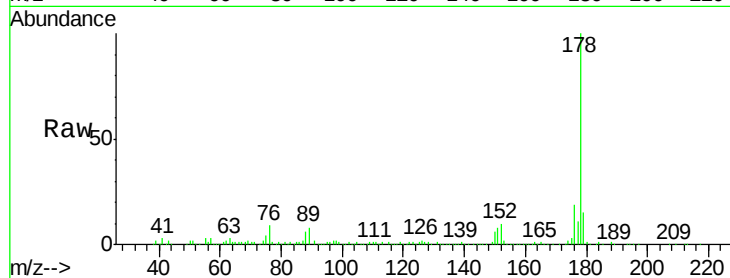
Tot Ion:178 Resp: 153819

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

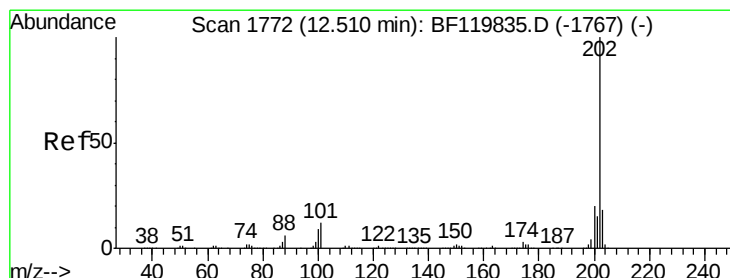
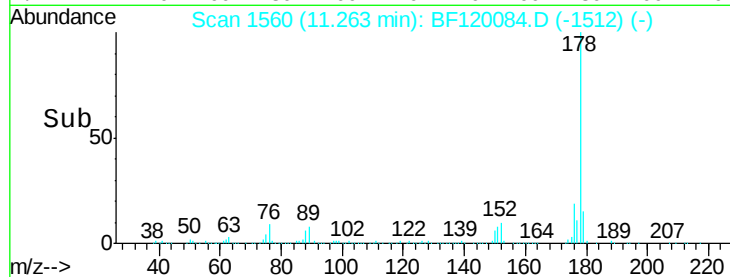
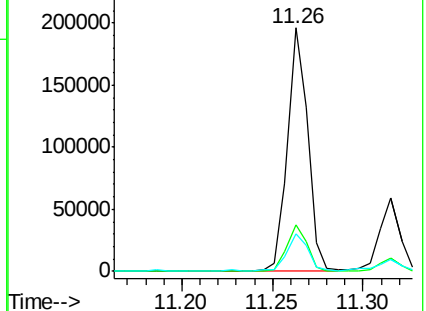
179 15.4 12.2 18.4



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: 5.007 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

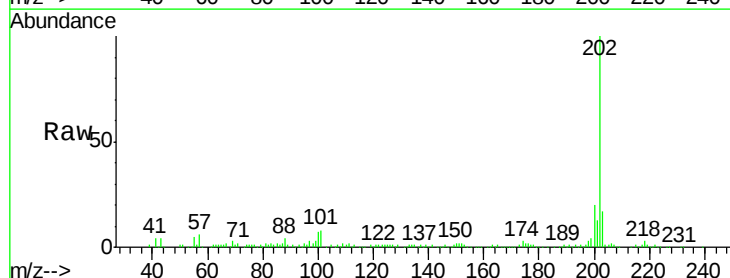
Tgt Ion:202 Resp: 154989

Ion Ratio Lower Upper

202 100

101 8.5 0.0 32.3

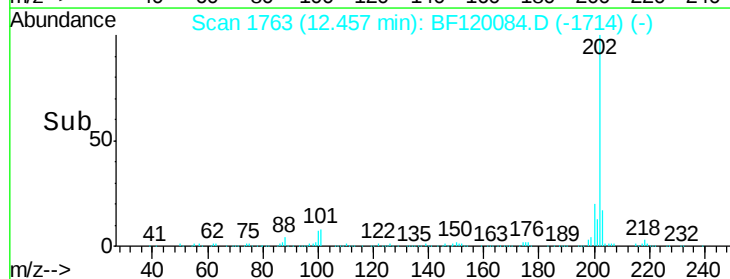
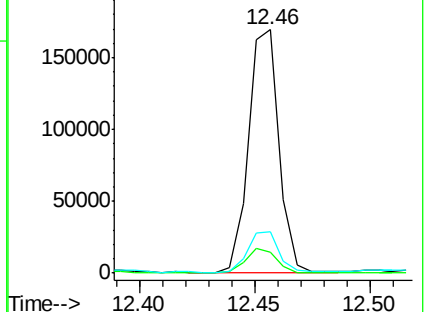
203 17.1 0.0 37.6

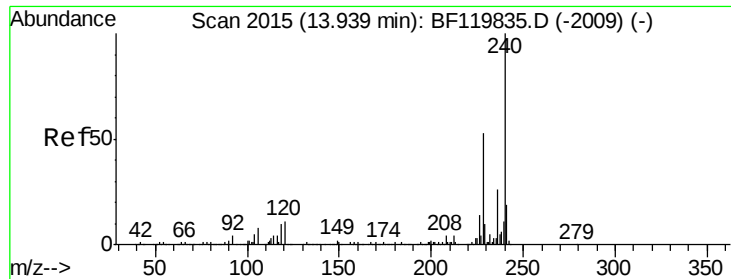


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampled :

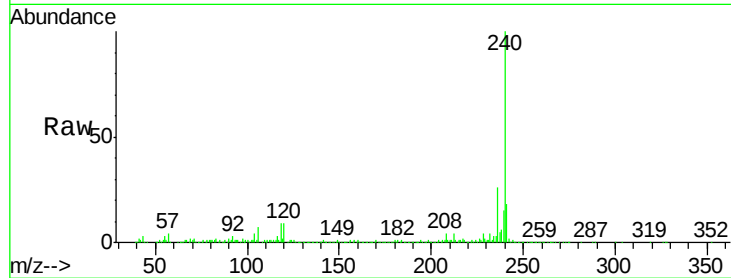
Tot Ion:240 Resp: 355614

Ion Ratio Lower Upper

240 100

120 9.2 9.0 13.6

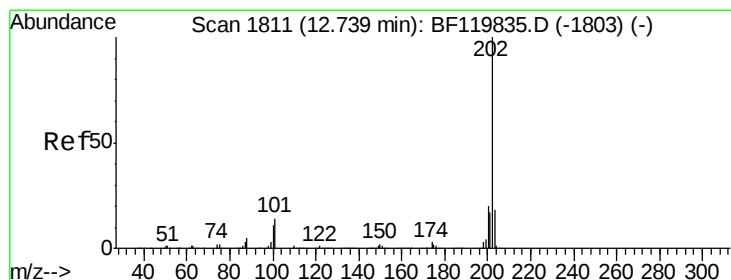
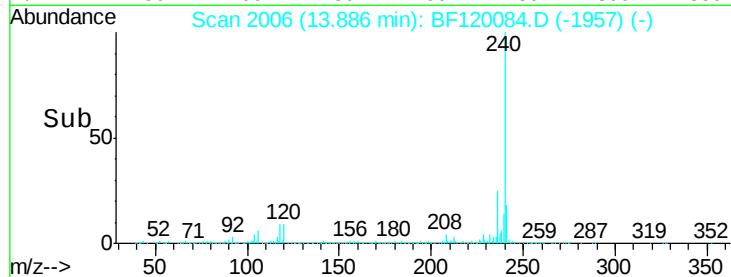
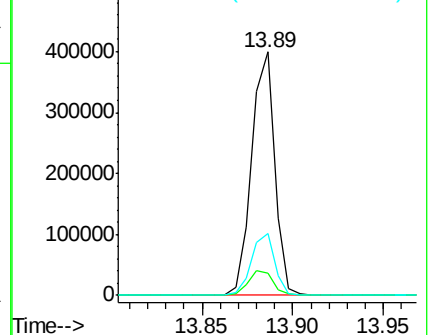
236 25.6 20.7 31.1



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: 6.732 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.02 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

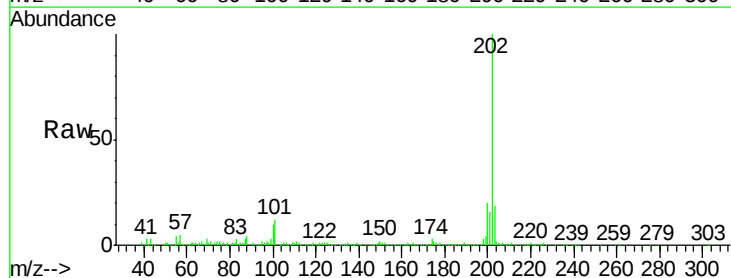
Tgt Ion:202 Resp: 201826

Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

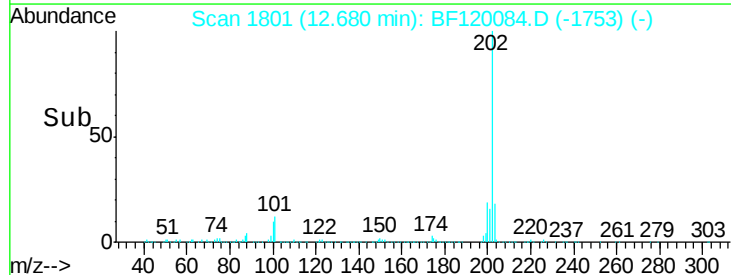
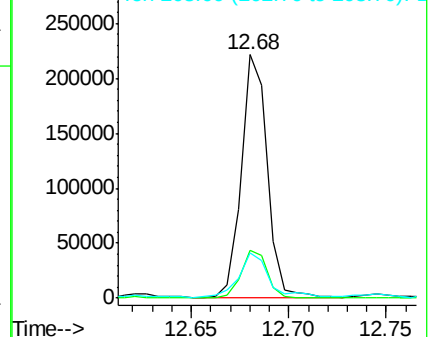
203 18.5 14.1 21.1

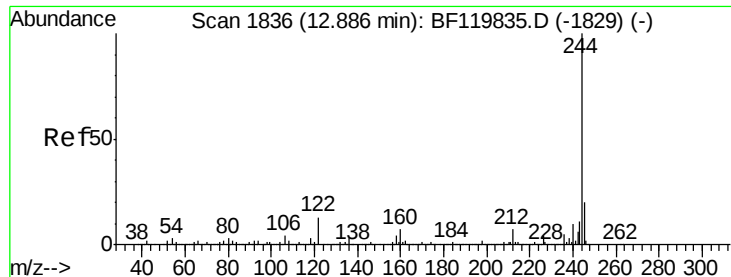


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 50.994 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

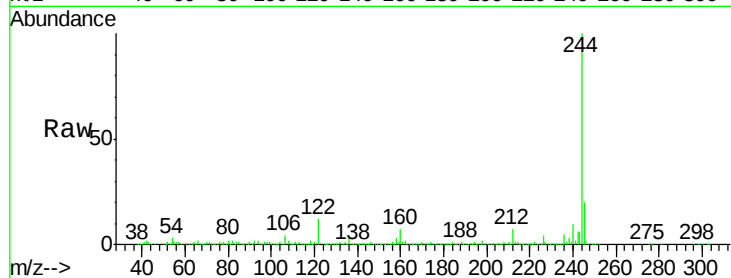
Tot Ion:244 Resp: 1077708

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

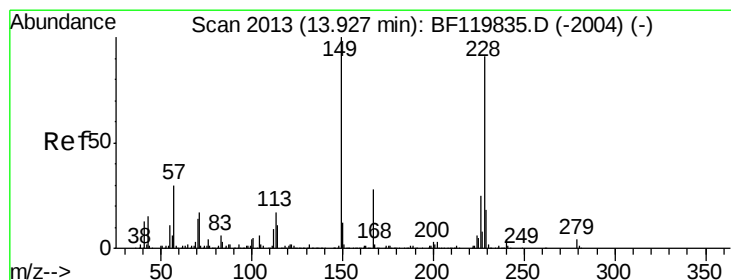
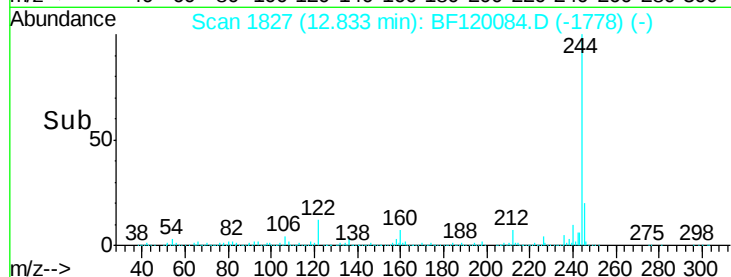
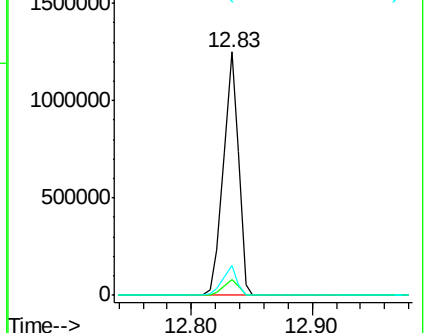
122 12.2 10.3 15.5



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: 4.390 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.02 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

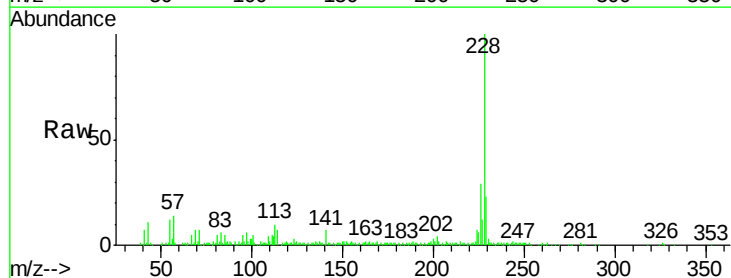
Tgt Ion:228 Resp: 102698

Ion Ratio Lower Upper

228 100

226 28.7 21.9 32.9

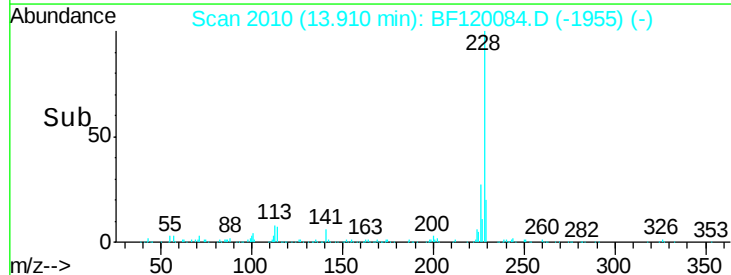
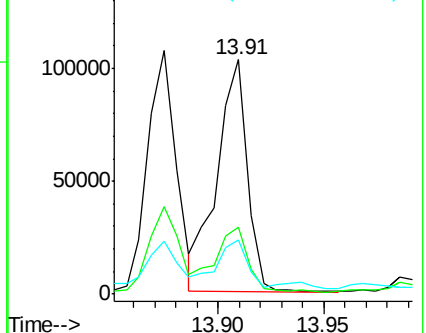
229 23.0 15.9 23.9

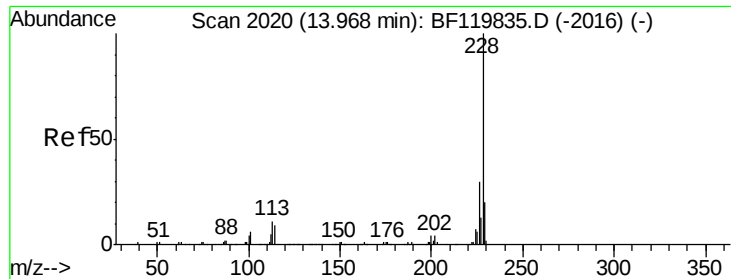


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 4.320 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

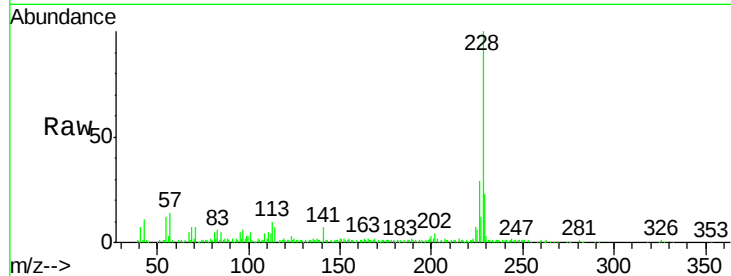
Tot Ion:228 Resp: 102698

Ion Ratio Lower Upper

228 100

226 28.7 24.2 36.2

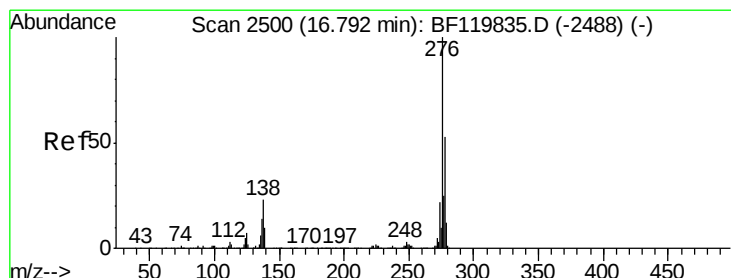
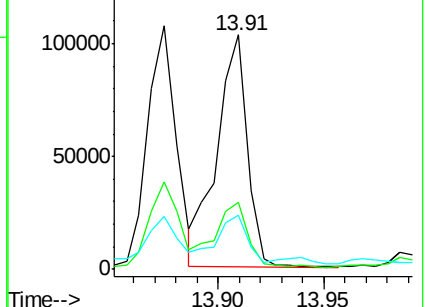
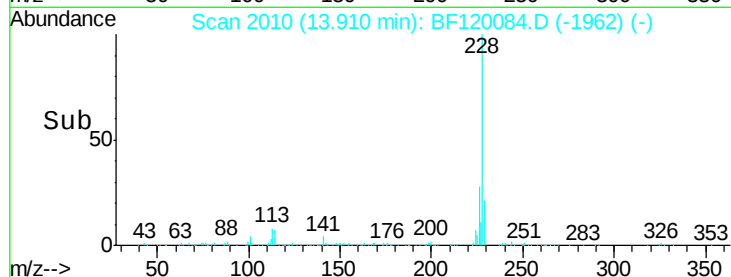
229 23.0 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 3.268 ng

RT: 16.68 min Scan# 2481

Delta R.T. -0.04 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

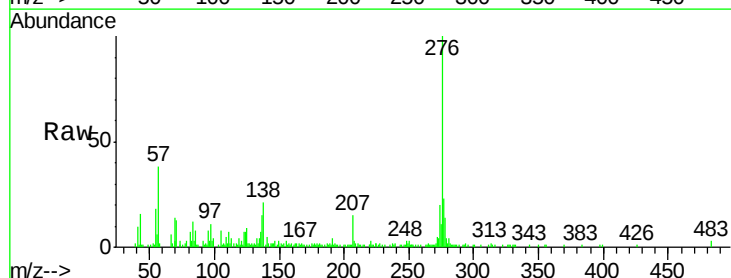
Tgt Ion:276 Resp: 68479

Ion Ratio Lower Upper

276 100

138 20.1 18.0 27.0

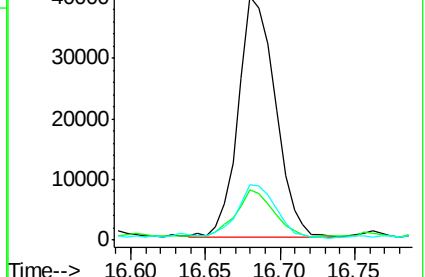
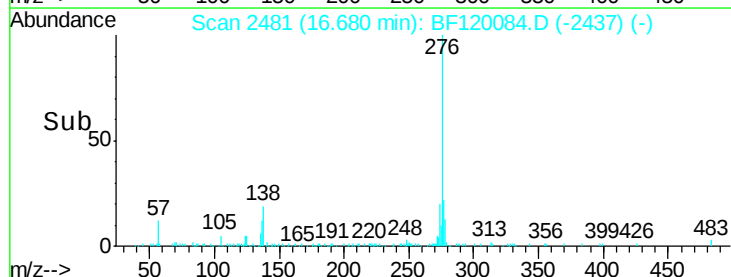
277 23.3 20.1 30.1

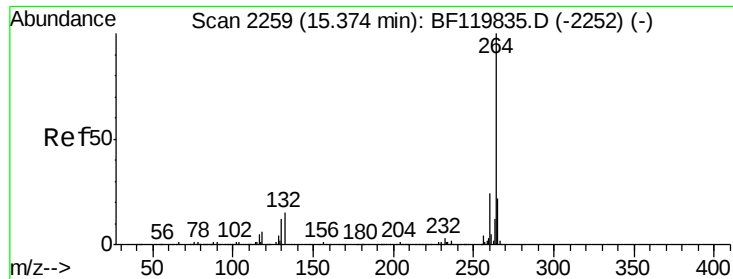


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.31 min Scan# 2248

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

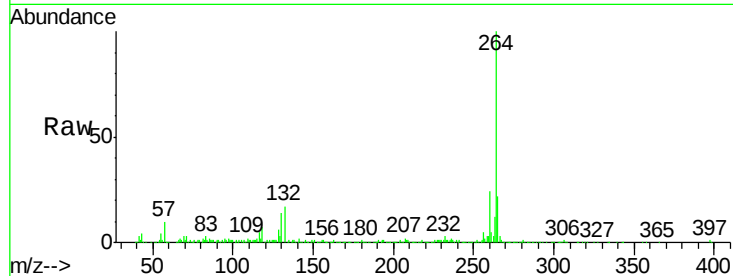
Tot Ion:264 Resp: 326356

Ion Ratio Lower Upper

264 100

260 24.1 19.3 28.9

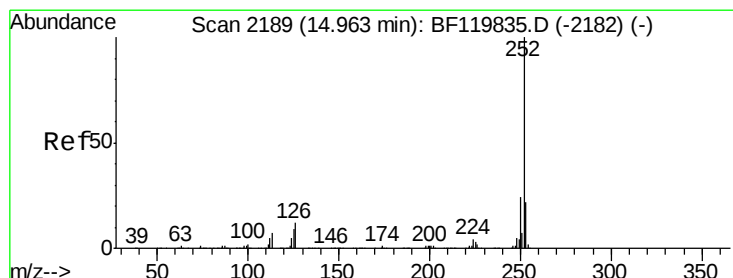
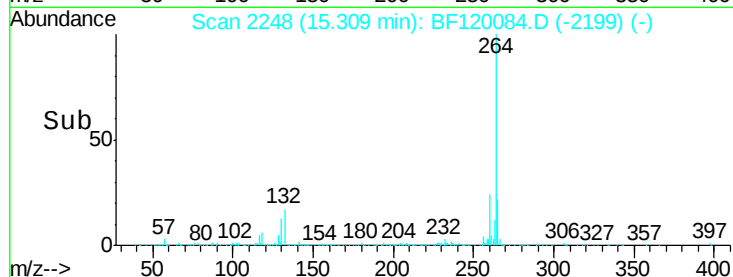
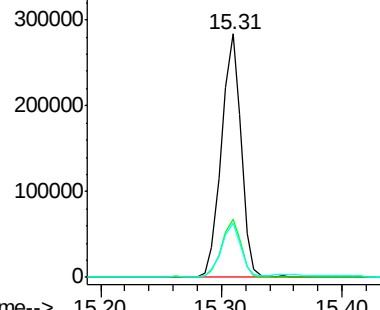
265 22.2 17.6 26.4



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: 7.169 ng

RT: 14.90 min Scan# 2179

Delta R.T. -0.01 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

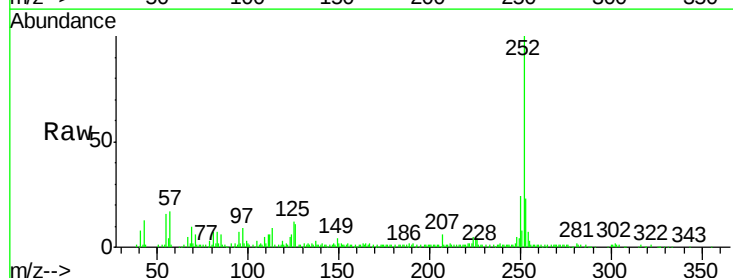
Tgt Ion:252 Resp: 168303

Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

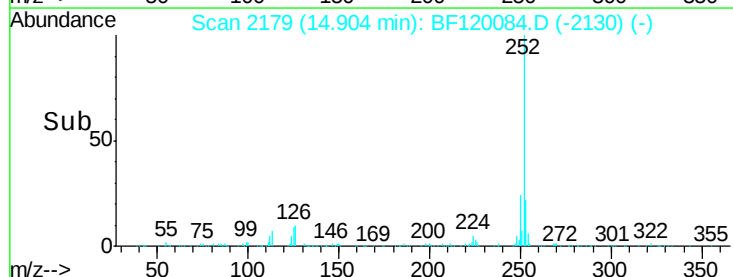
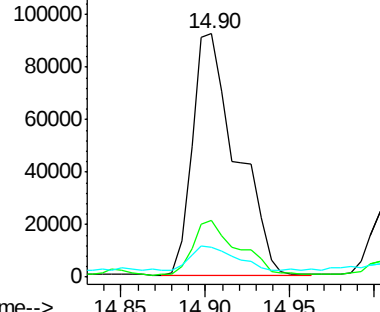
125 12.1 7.4 11.2#

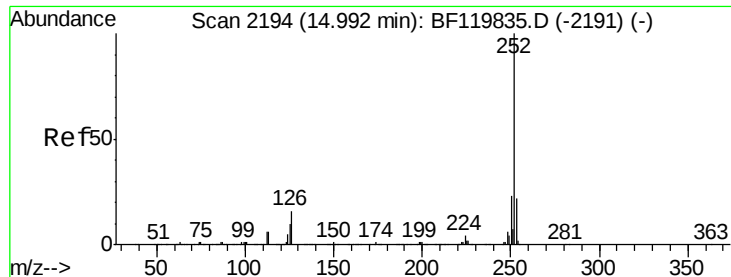


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

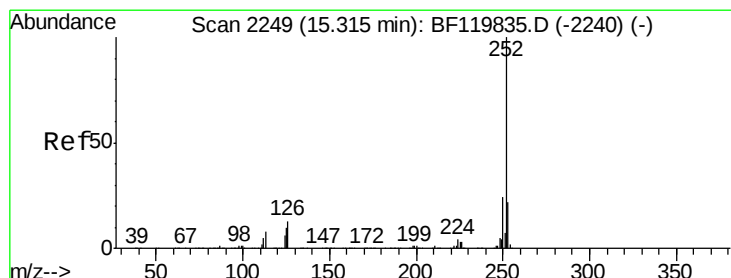
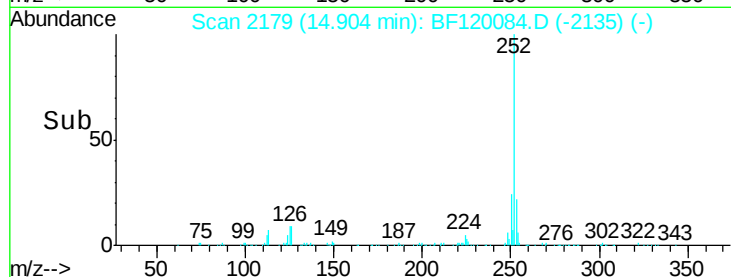
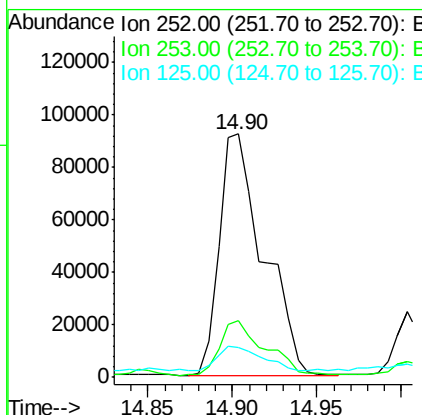
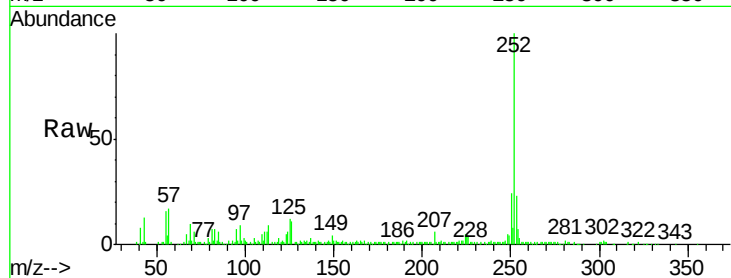




#89
Benzo(k)fluoranthene
Concen: 8.309 ng
RT: 14.90 min Scan# 2179
Delta R.T. -0.04 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

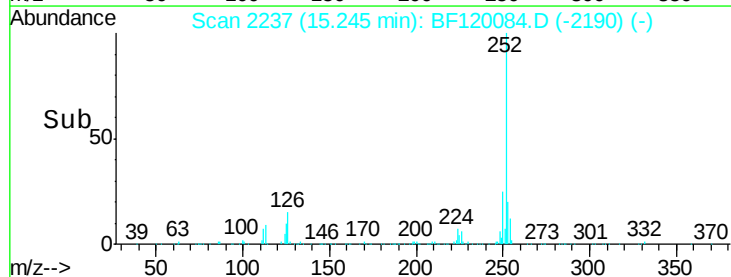
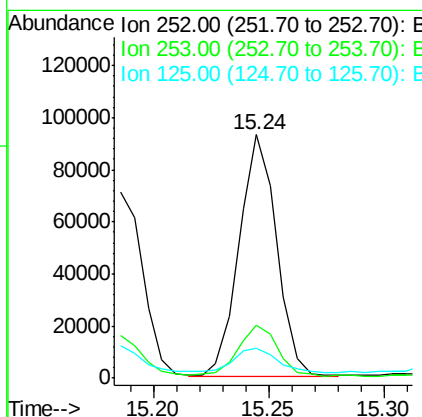
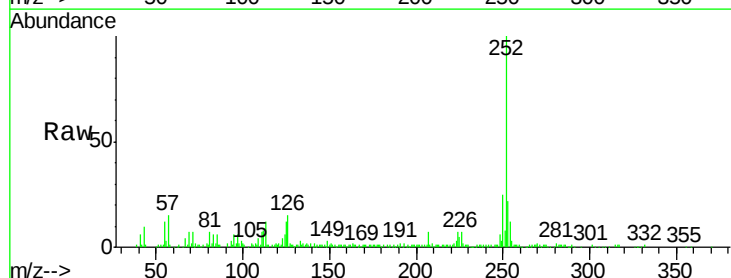
Instrument :
BNA_F
ClientSampleId :

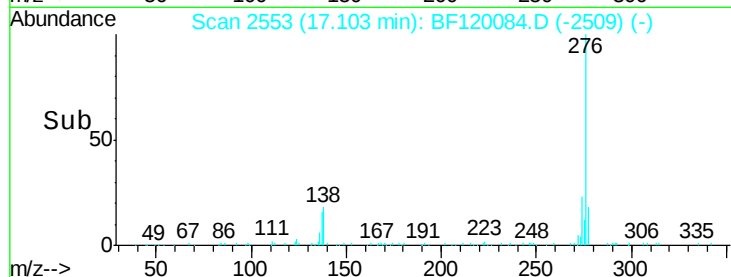
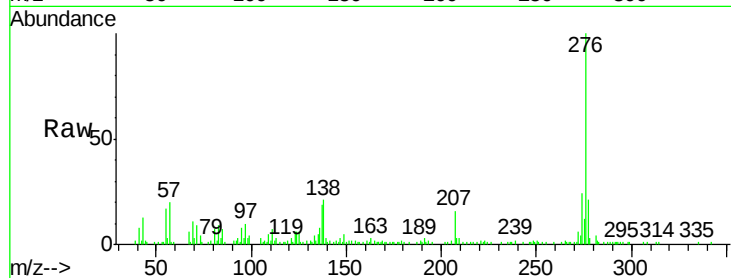
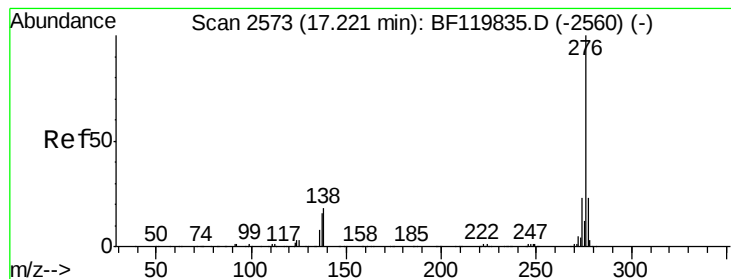
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	12.1	7.7	11.5



#90
Benzo(a)pyrene
Concen: 5.330 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.02 min
Lab File: BF120084.D
Acq: 20 Apr 2020 18:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	12.3	8.3	12.5





#92

Benzo(a,h,i)perylene

Concen: 4.013 ng

RT: 17.10 min Scan# 2553

Delta R.T. -0.04 min

Lab File: BF120084.D

Acq: 20 Apr 2020 18:12

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 69265

Ion Ratio Lower Upper

276 100

277 20.5 18.5 27.7

138 21.3 14.6 22.0

