

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021420\
 Data File : BF118942.D
 Acq On : 14 Feb 2020 20:11
 Operator : CG/JU
 Sample : L1529-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 15 03:38:33 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 14 00:49:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	182643	20.00	ng	-0.04
21) Naphthalene-d8	8.06	136	666426	20.00	ng	-0.05
39) Acenaphthene-d10	9.81	164	321684	20.00	ng	-0.05
64) Phenanthrene-d10	11.29	188	482386	20.00	ng	-0.05
76) Chrysene-d12	13.93	240	401829	20.00	ng	-0.05
87) Perylene-d12	15.36	264	599303	20.00	ng	-0.06

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	1217162	126.15	ng	-0.03
7) Phenol-d6	6.42	99	1051885	87.82	ng	-0.04
23) Nitrobenzene-d5	7.34	82	685259	61.29	ng	-0.04
42) 2,4,6-Tribromophenol	10.60	330	276031	71.71	ng	-0.05
45) 2-Fluorobiphenyl	9.13	172	1262560	70.16	ng	-0.05
79) Terphenyl-d14	12.87	244	1072626	54.83	ng	-0.05

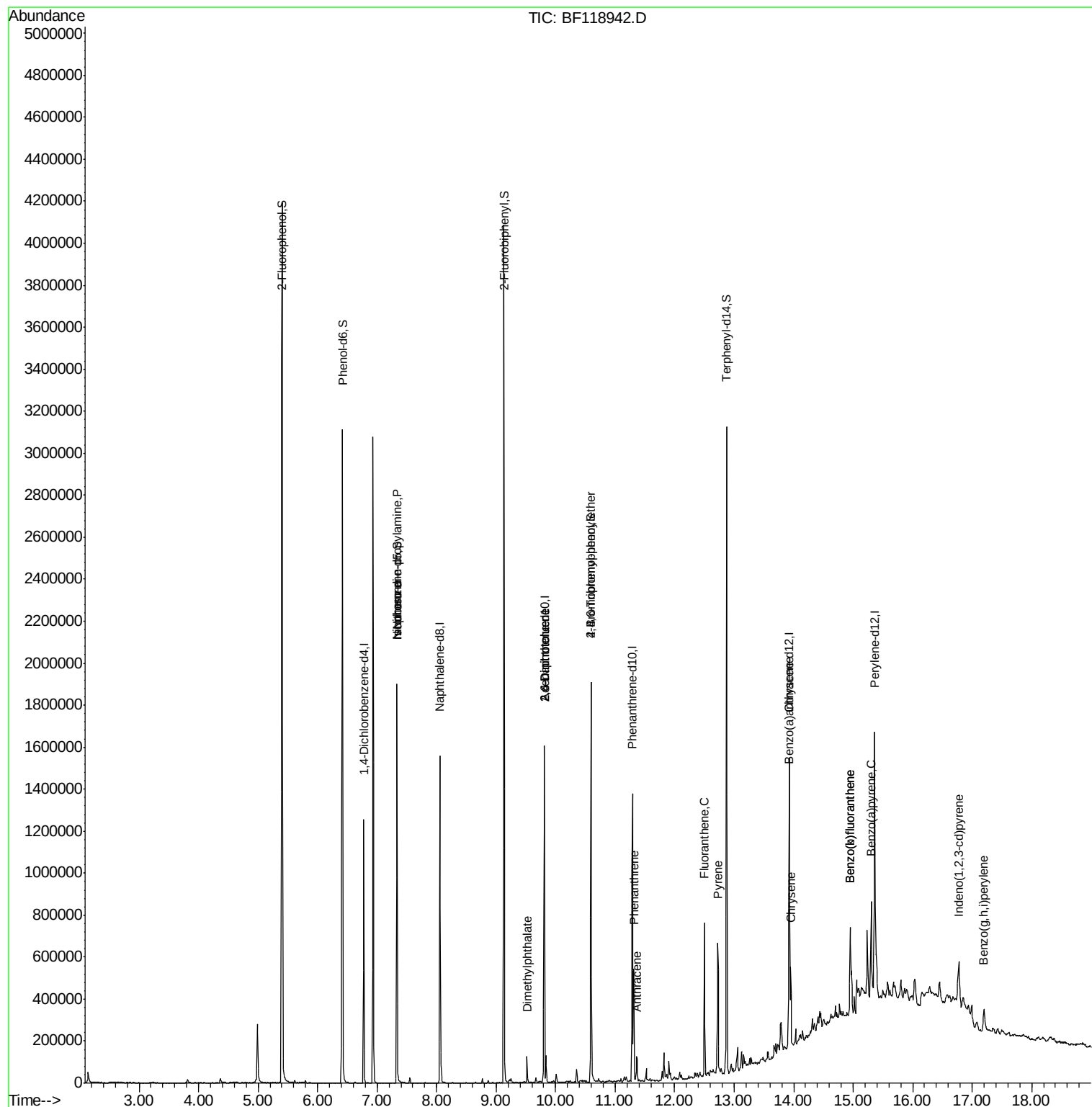
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.42	77	1611	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.33	70	93151	12.711	ng	# 76
25) Isophorone	7.34	82	685252	34.102	ng	# 63
50) Dimethylphthalate	9.52	163	46265	2.112	ng	98
51) 2,6-Dinitrotoluene	9.81	165	41253	8.231	ng	# 31
57) 2,4-Dinitrotoluene	9.81	165	41253	6.220	ng	# 34
67) 4-Bromophenyl-phenylether	10.60	248	17611	3.086	ng	# 1
71) Phenanthrene	11.32	178	199570	8.409	ng	97
72) Anthracene	11.36	178	50294	2.130	ng	97
75) Fluoranthene	12.50	202	293088	11.310	ng	97
78) Pyrene	12.73	202	253982	9.213	ng	98
81) Benzo(a)anthracene	13.92	228	160966	6.732	ng	99
83) Chrysene	13.95	228	145459	6.061	ng	97
86) Indeno(1,2,3-cd)pyrene	16.77	276	140847	5.841	ng	97
88) Benzo(b)fluoranthene	14.95	252	306211	8.234	ng	100
89) Benzo(k)fluoranthene	14.95	252	306211	9.456	ng	98
90) Benzo(a)pyrene	15.30	252	214332	6.735	ng	99
92) Benzo(g,h,i)perylene	17.20	276	91568	3.370	ng	99

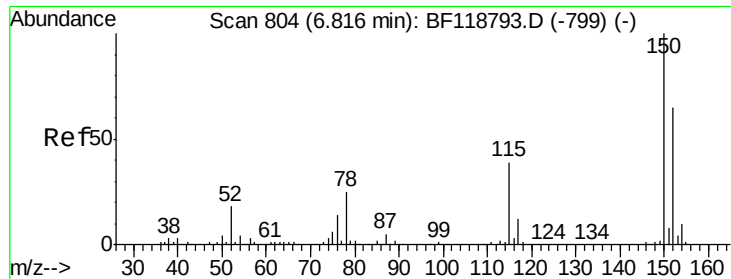
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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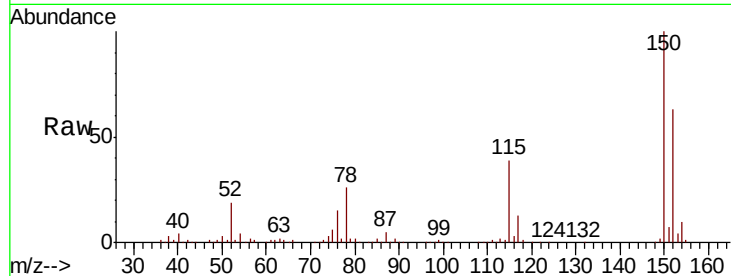


#1

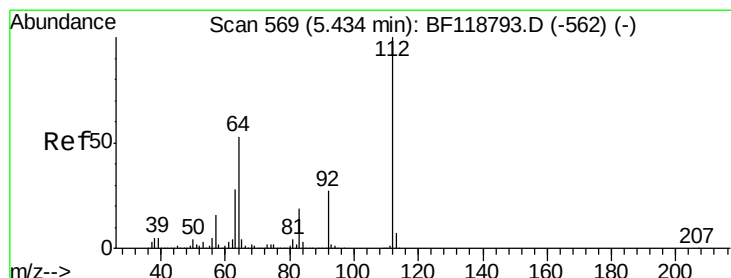
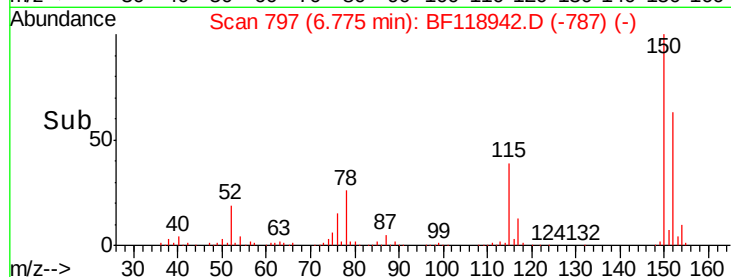
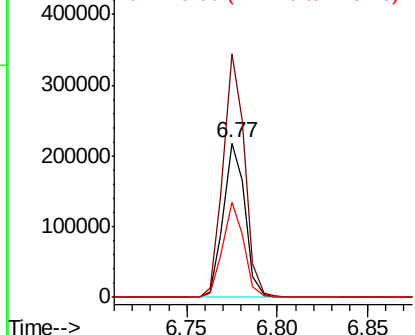
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.77 min Scan# 797
 Delta R.T. -0.04 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 182643
 Ion Ratio Lower Upper
 152 100
 150 157.7 123.6 185.4
 115 61.6 48.2 72.2



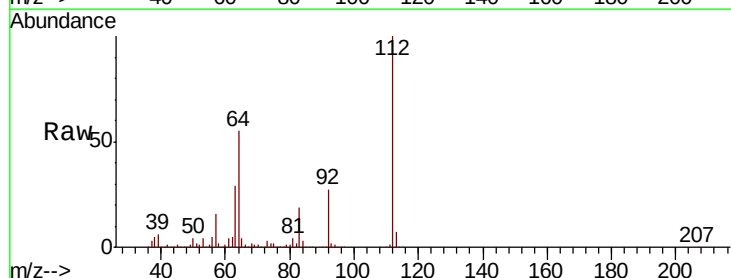
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



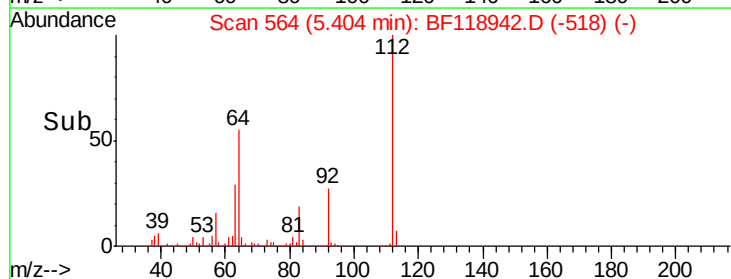
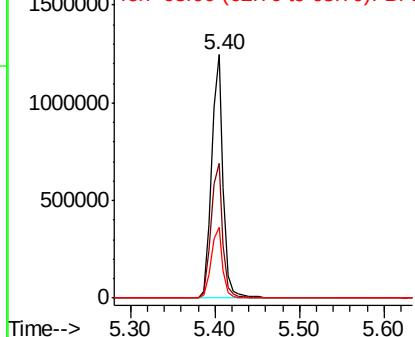
#5

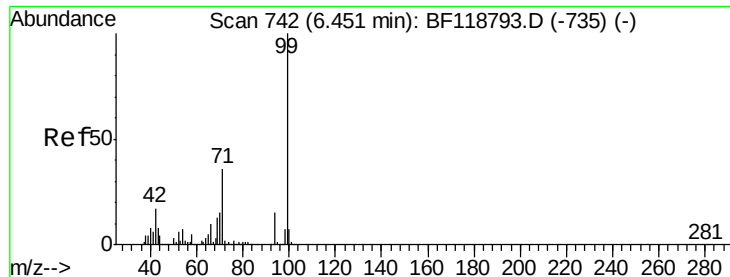
2-Fluorophenol
 Concen: 126.148 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.03 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Tgt Ion:112 Resp: 1217162
 Ion Ratio Lower Upper
 112 100
 64 55.3 42.6 63.8
 63 29.0 22.2 33.4



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: 87.822 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.04 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

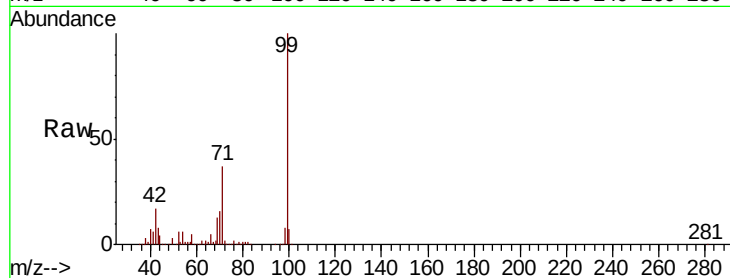
Tot Ion: 99 Resp: 1051885

Ion Ratio Lower Upper

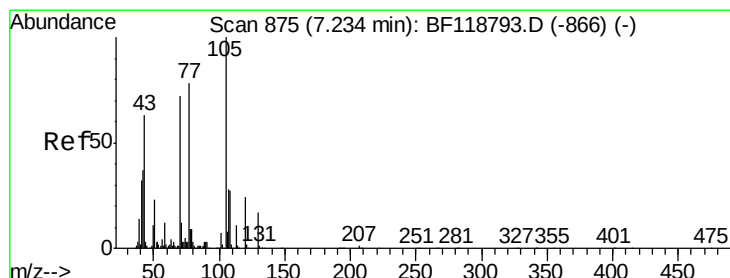
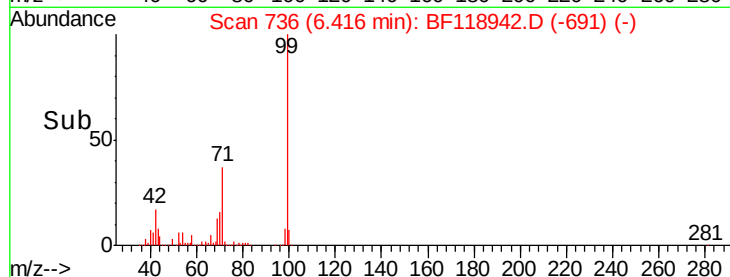
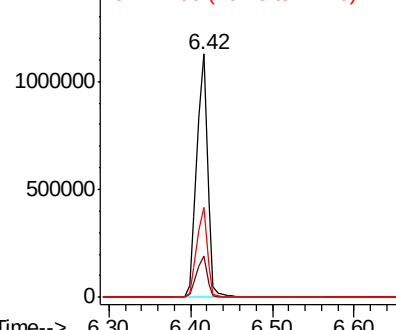
99 100

42 16.9 13.4 20.0

71 37.0 29.0 43.6



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.711 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.10 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Tgt Ion: 70 Resp: 93151

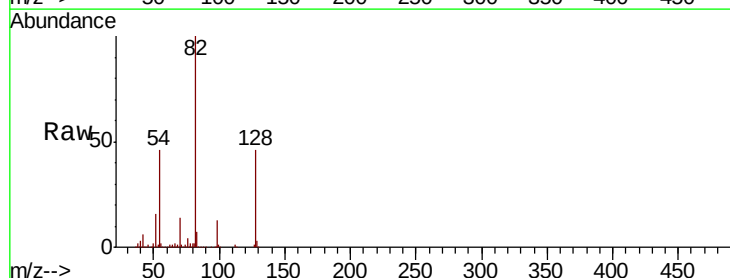
Ion Ratio Lower Upper

70 100

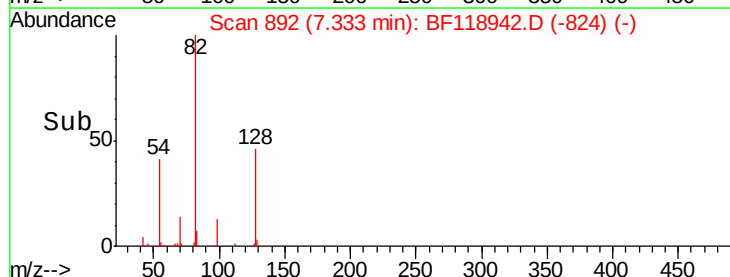
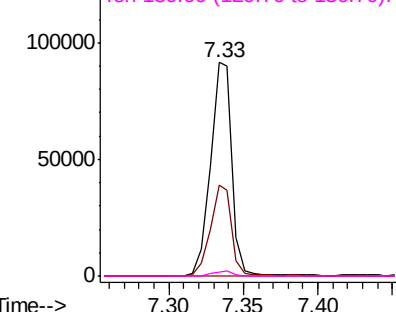
42 42.8 41.5 62.3

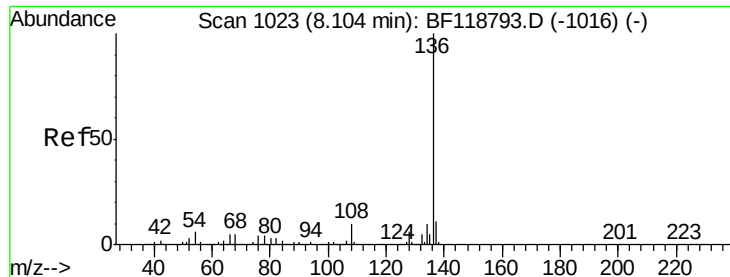
101 0.0 8.3 12.5#

130 1.9 19.2 28.8#



Abundance Ion 70.00 (69.70 to 70.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 101.00 (100.70 to 101.70): BF1
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 666426

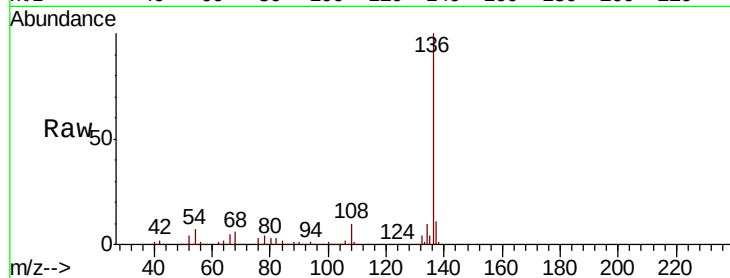
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.5 5.0 7.6

68 5.7 4.2 6.4

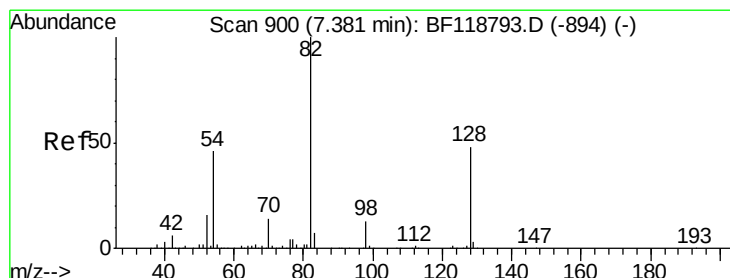
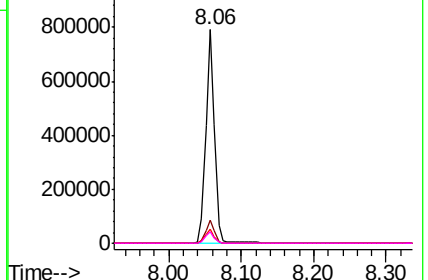
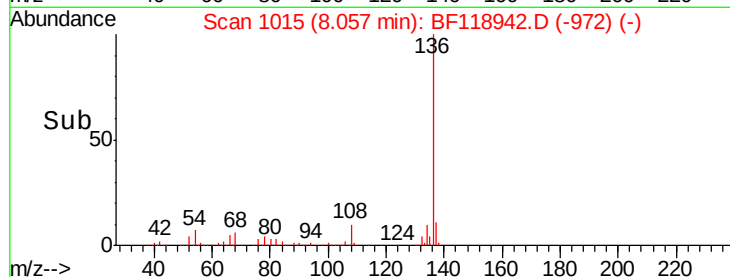


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.289 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.04 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

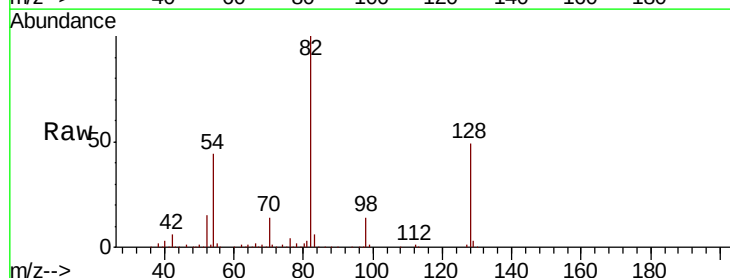
Tgt Ion: 82 Resp: 685259

Ion Ratio Lower Upper

82 100

128 49.4 38.5 57.7

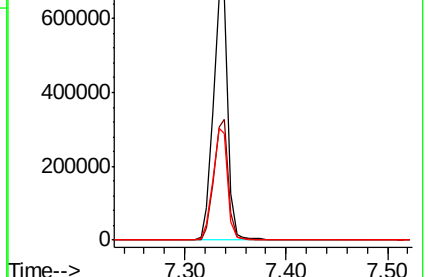
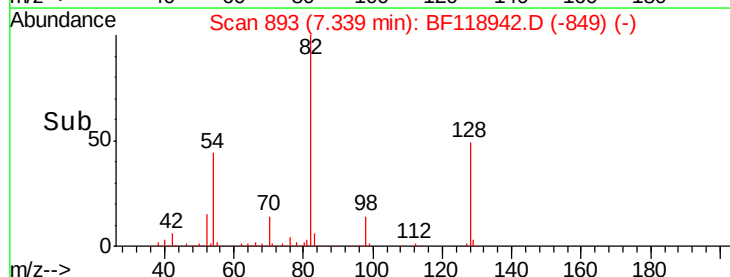
54 43.7 36.7 55.1

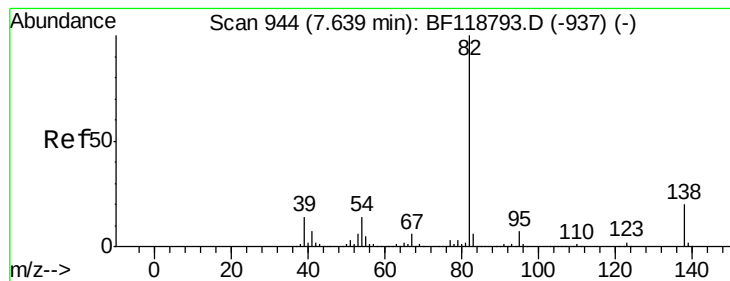


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 34.102 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.30 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

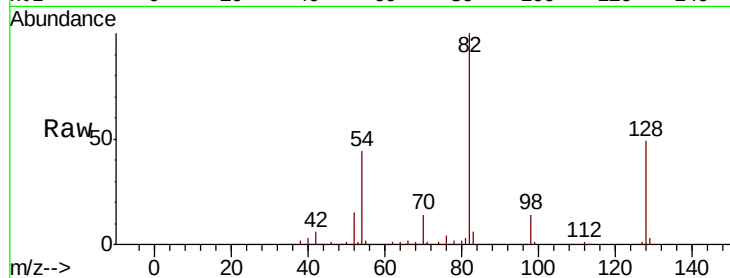
Tot Ion: 82 Resp: 685252

Ion Ratio Lower Upper

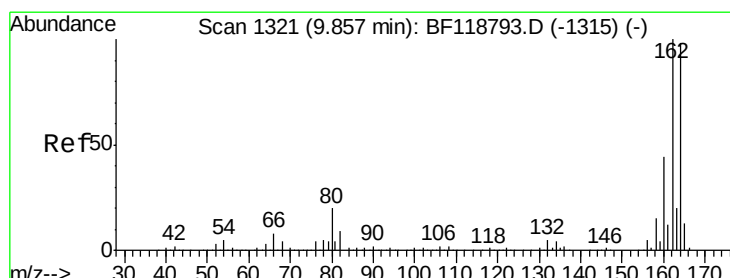
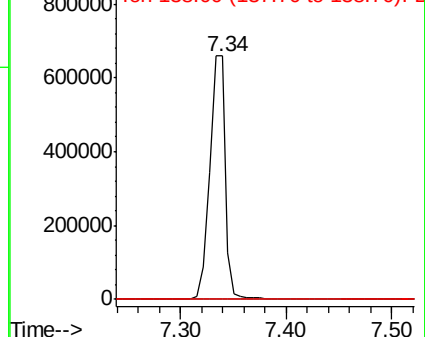
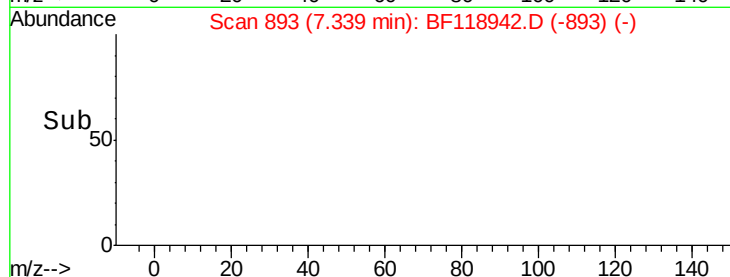
82 100

95 0.0 6.0 9.0#

138 0.0 15.7 23.5#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

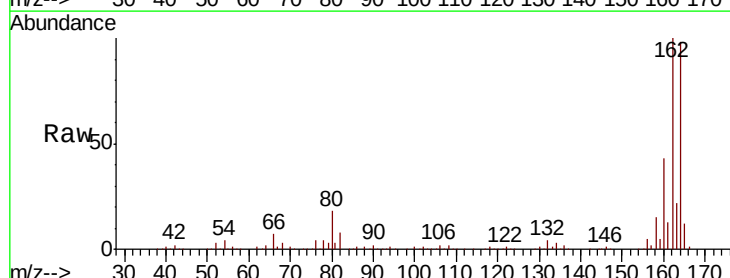
Tgt Ion: 164 Resp: 321684

Ion Ratio Lower Upper

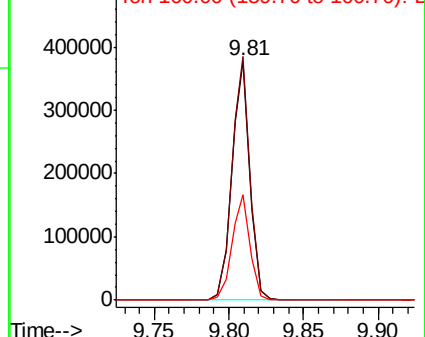
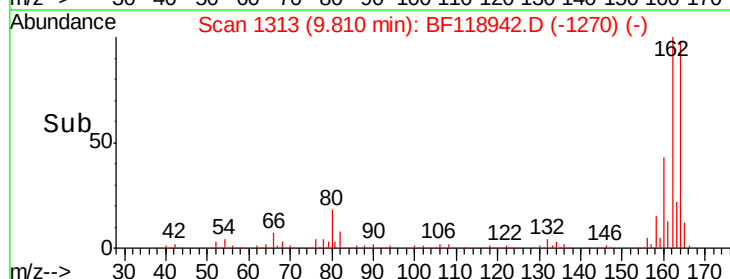
164 100

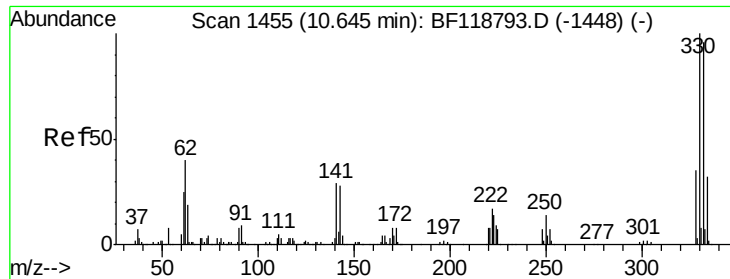
162 101.9 81.4 122.2

160 44.2 35.6 53.4



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: 71.714 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

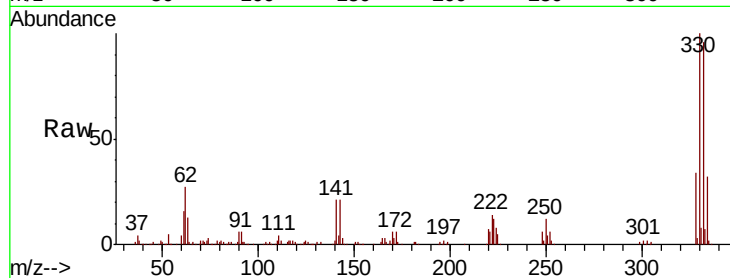
Tot Ion:330 Resp: 276031

Ion Ratio Lower Upper

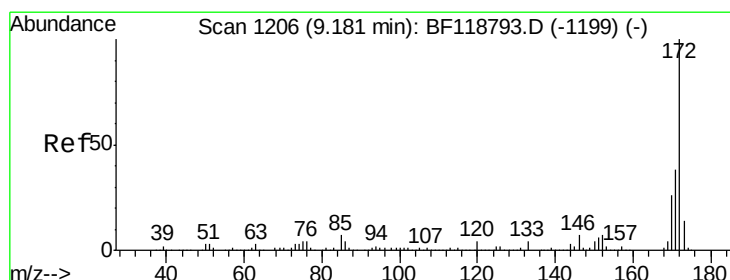
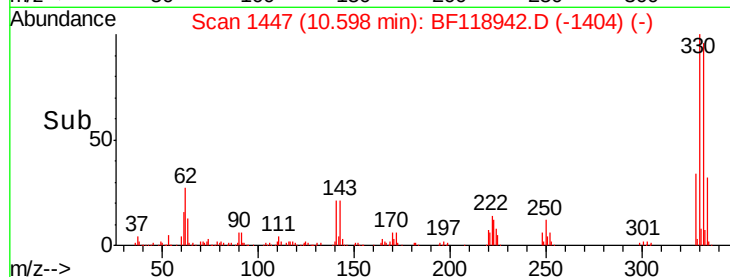
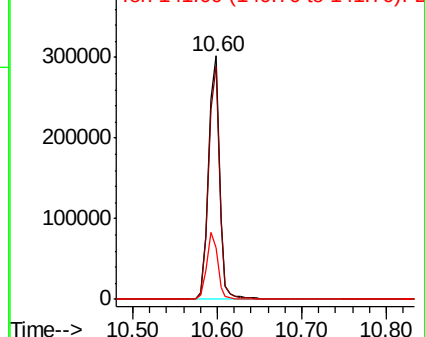
330 100

332 95.5 77.3 115.9

141 27.3 22.4 33.6



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: 70.164 ng

RT: 9.13 min Scan# 1198

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

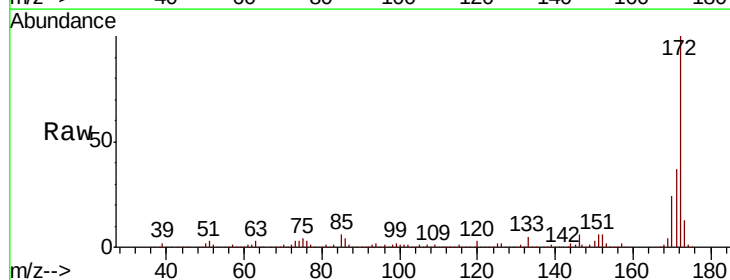
Tgt Ion:172 Resp: 1262560

Ion Ratio Lower Upper

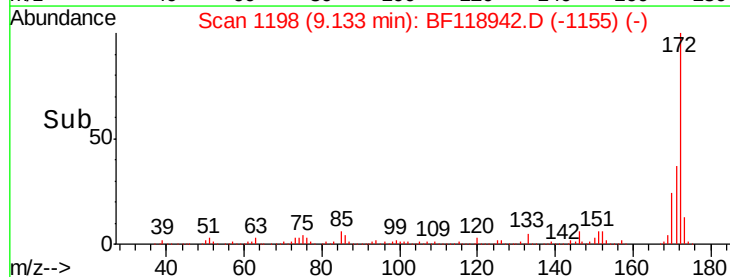
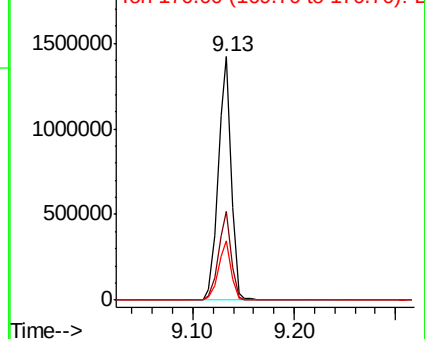
172 100

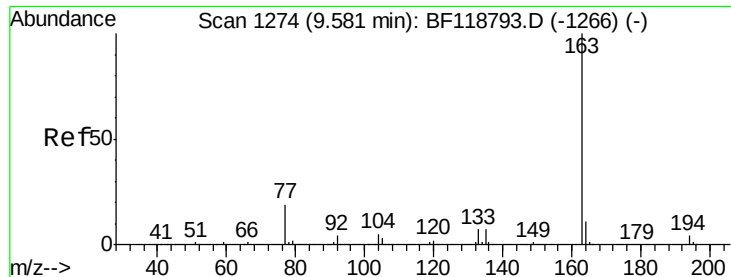
171 36.6 30.8 46.2

170 24.1 20.5 30.7



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

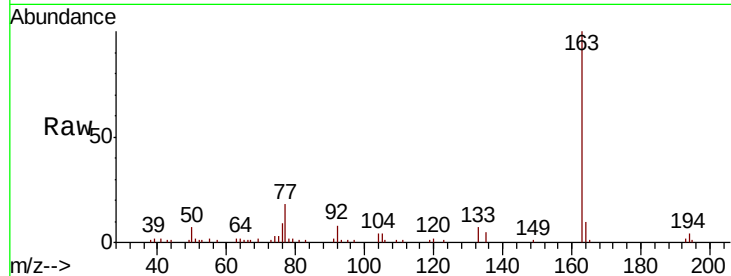




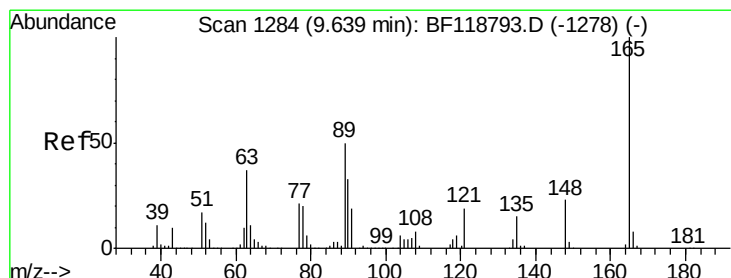
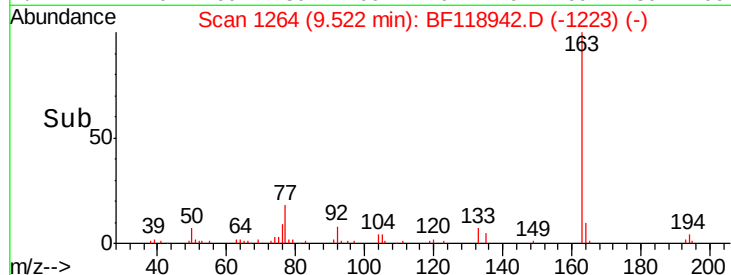
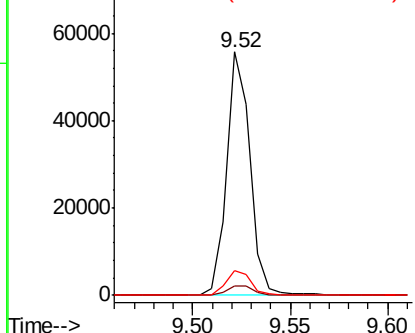
#50
Dimethylphthalate
Concen: 2.112 ng
RT: 9.52 min Scan# 1264
Delta R.T. -0.06 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.6	5.4
164	10.1	8.7	13.1

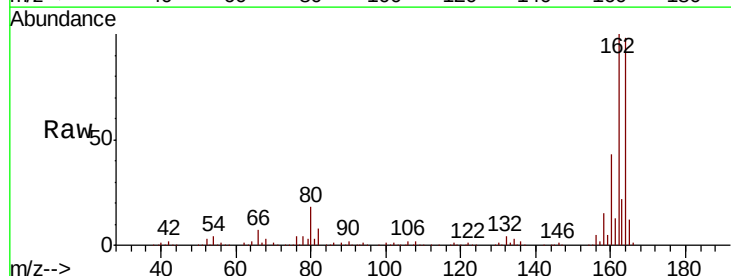


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

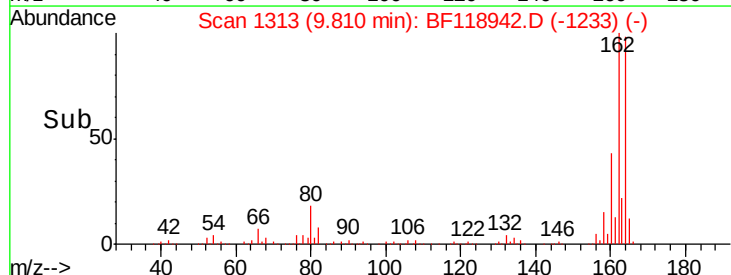
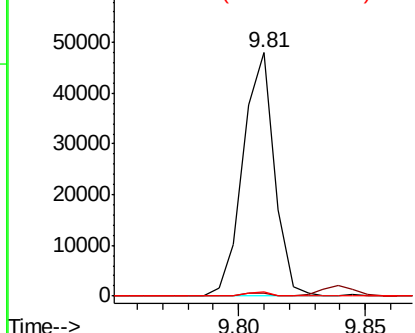


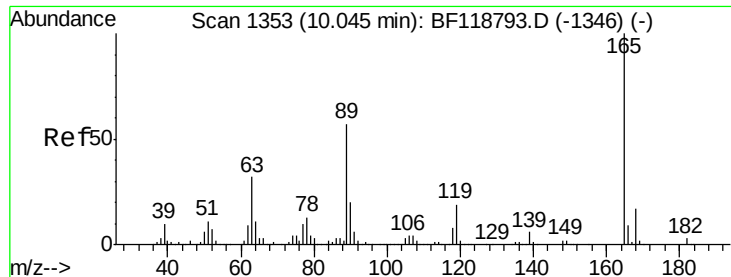
#51
2,6-Dinitrotoluene
Concen: 8.231 ng
RT: 9.81 min Scan# 1313
Delta R.T. 0.17 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.2	37.4	56.0#
89	1.6	39.7	59.5#



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

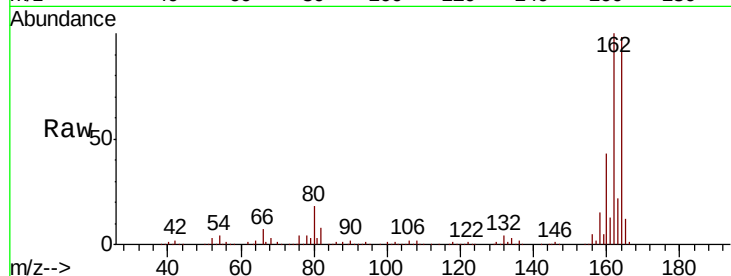




#57
 2,4-Dinitrotoluene
 Concen: 6.220 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.24 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	25.5	38.3#
89	1.6	45.4	68.0#
182	0.0	2.4	3.6#



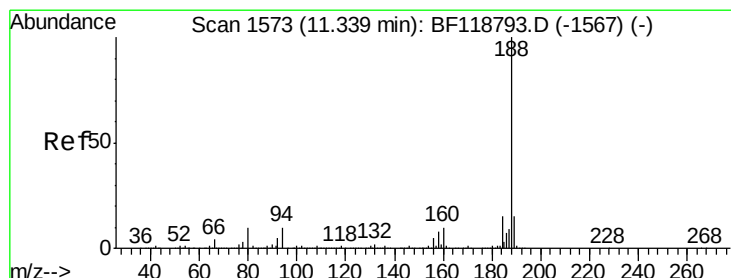
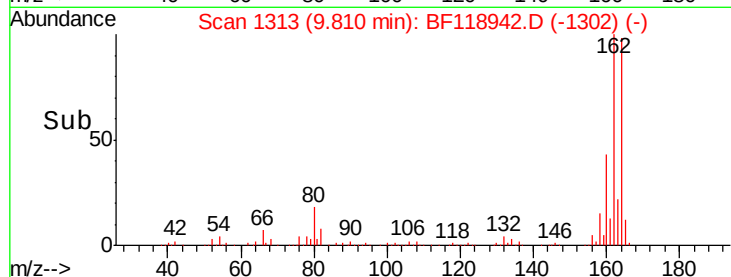
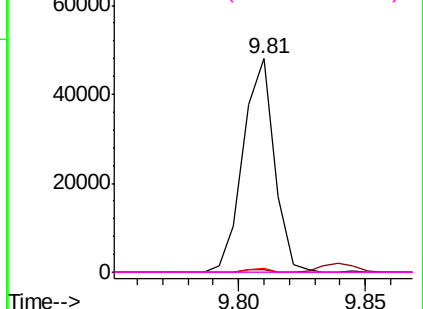
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

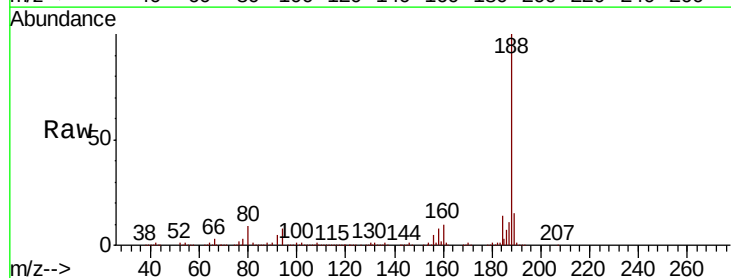
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.29 min Scan# 1565
 Delta R.T. -0.05 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.3	7.9	11.9
80	8.7	8.4	12.6

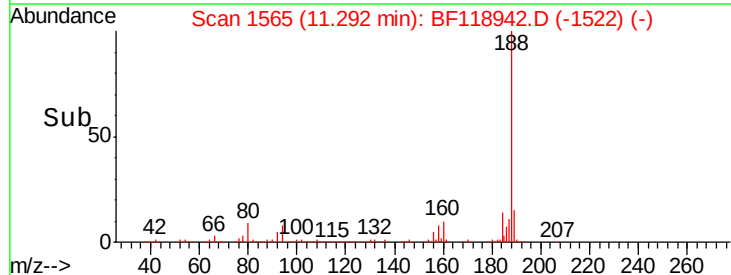
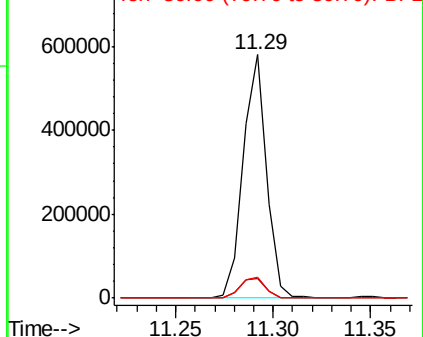


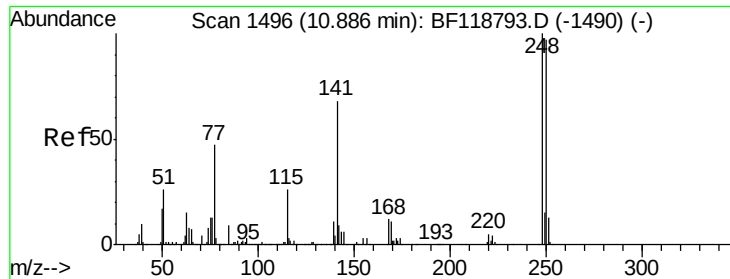
Abundance

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

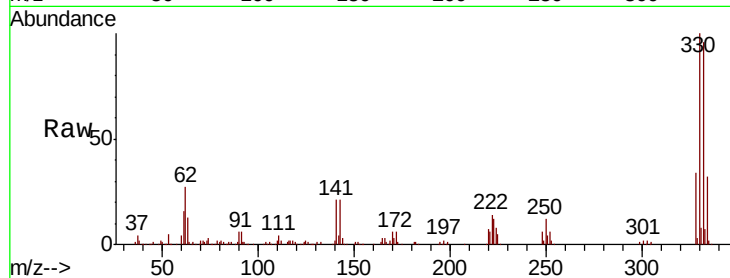




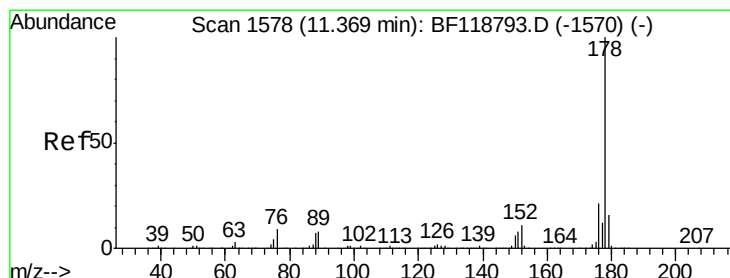
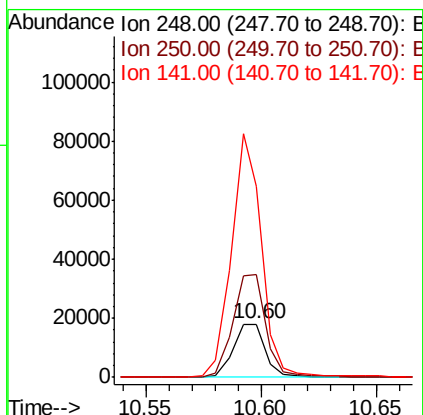
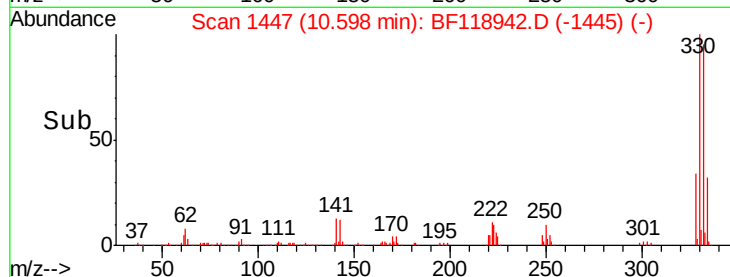
#67
 4-Bromophenyl-phenylether
 Concen: 3.086 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.29 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 17611
 Ion Ratio Lower Upper
 248 100
 250 193.5 77.6 116.4#
 141 356.6 54.4 81.6#

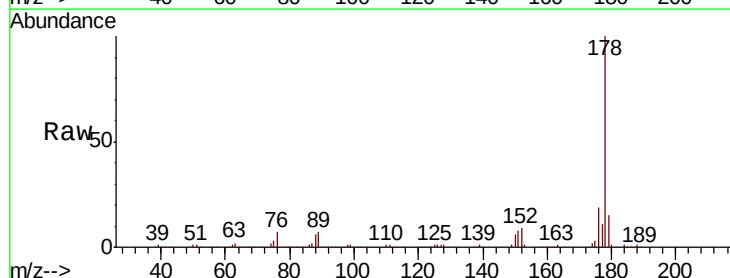


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

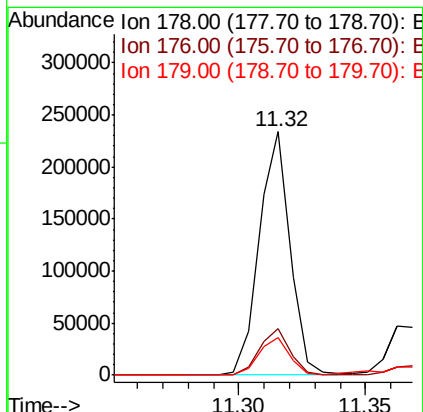
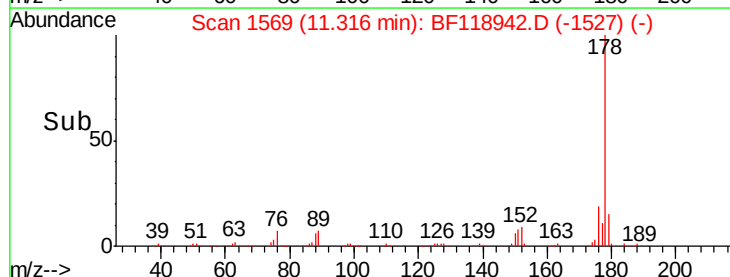


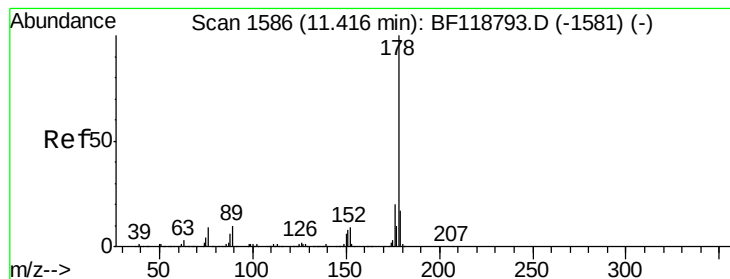
#71
 Phenanthrene
 Concen: 8.409 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.05 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Tgt Ion:178 Resp: 199570
 Ion Ratio Lower Upper
 178 100
 176 19.2 16.6 24.8
 179 15.4 13.2 19.8



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: 2.130 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

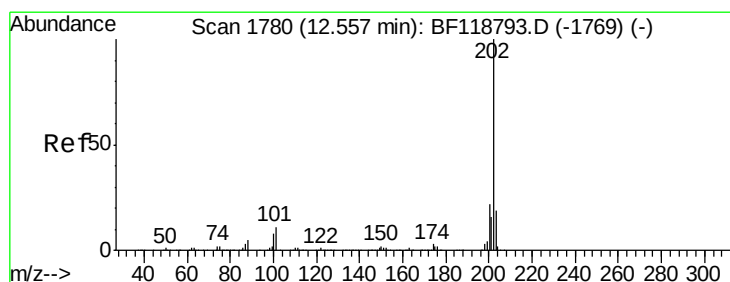
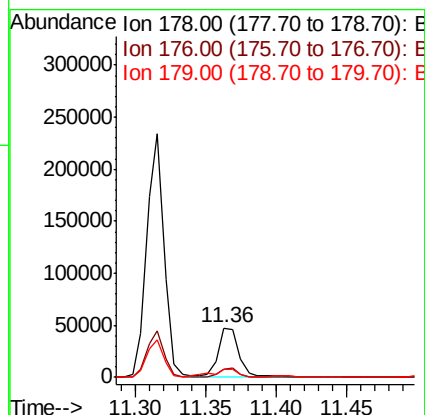
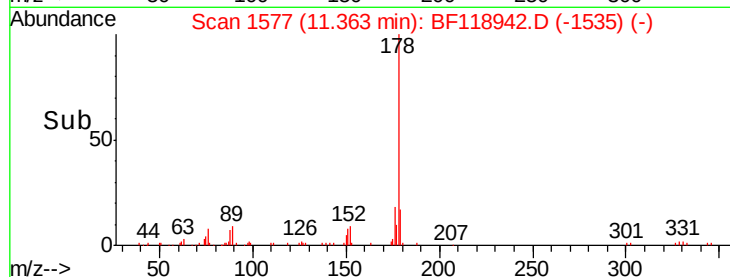
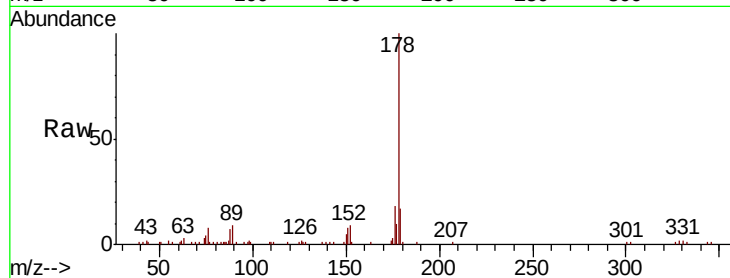
Tot Ion:178 Resp: 50294

Ion Ratio Lower Upper

178 100

176 17.7 16.2 24.2

179 17.3 13.4 20.2



#75

Fluoranthene

Concen: 11.310 ng

RT: 12.50 min Scan# 1771

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

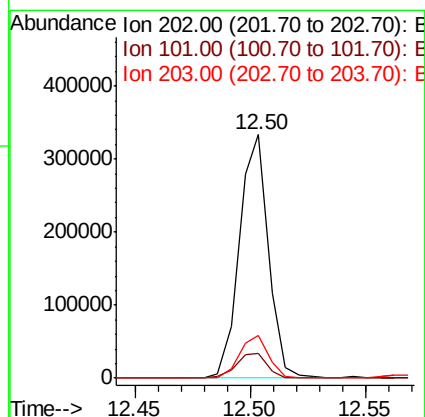
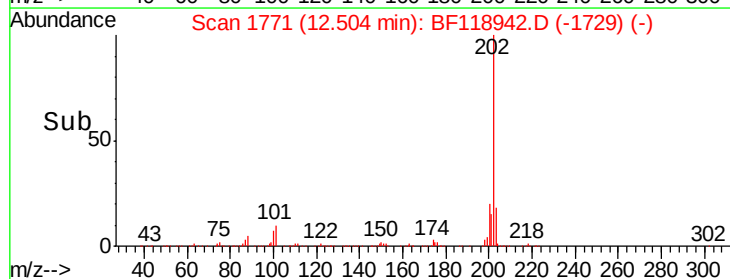
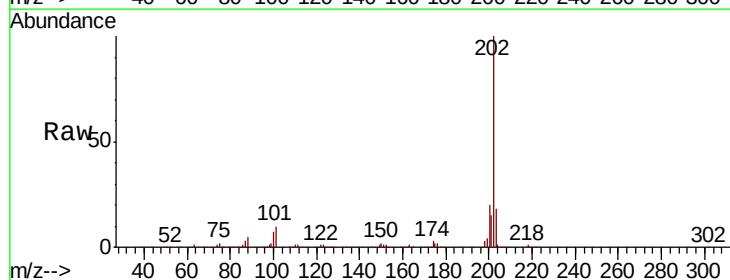
Tgt Ion:202 Resp: 293088

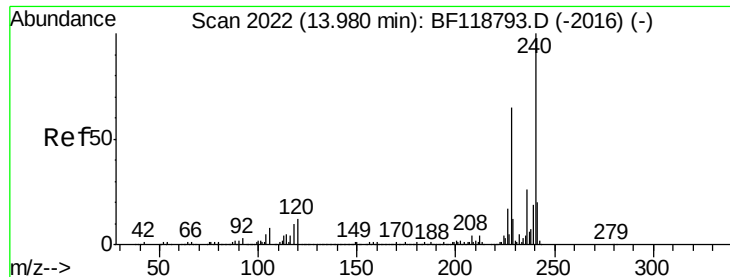
Ion Ratio Lower Upper

202 100

101 10.0 0.0 31.0

203 17.5 0.0 38.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

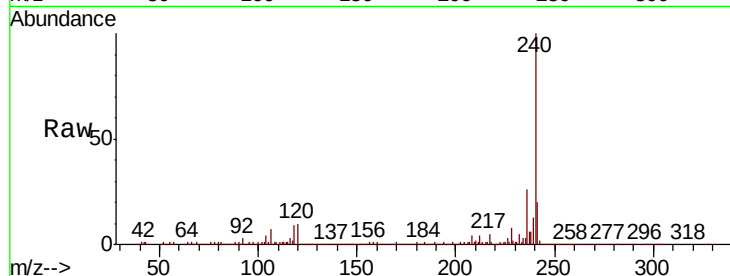
Tot Ion:240 Resp: 401829

Ion Ratio Lower Upper

240 100

120 10.0 9.4 14.0

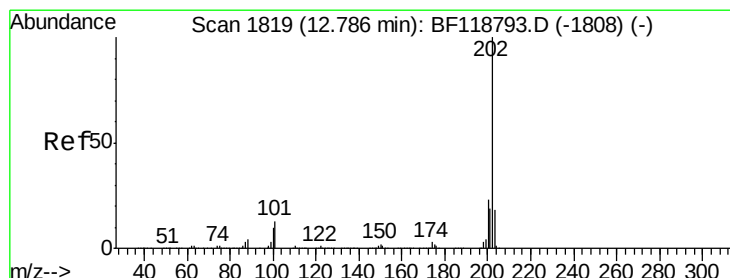
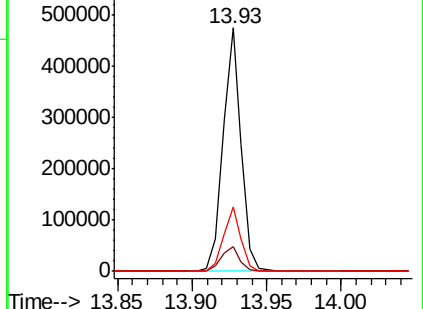
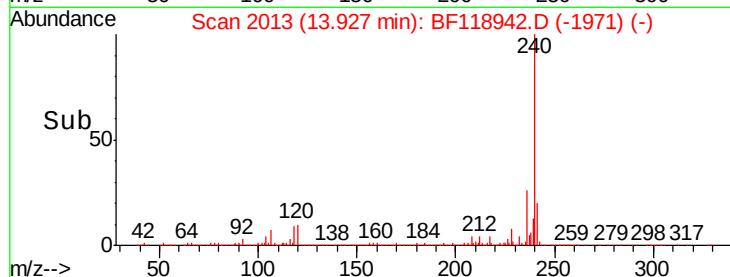
236 26.3 21.0 31.6



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: 9.213 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.06 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

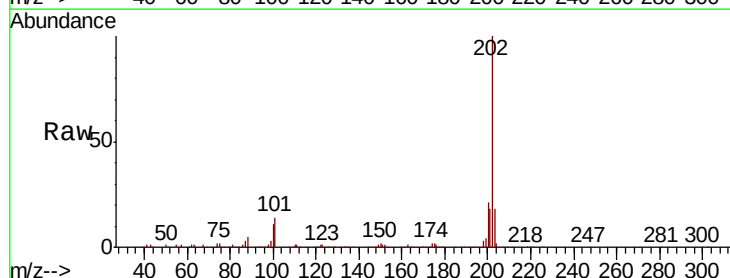
Tgt Ion:202 Resp: 253982

Ion Ratio Lower Upper

202 100

200 21.4 18.2 27.2

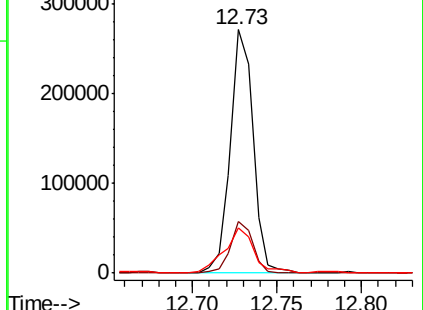
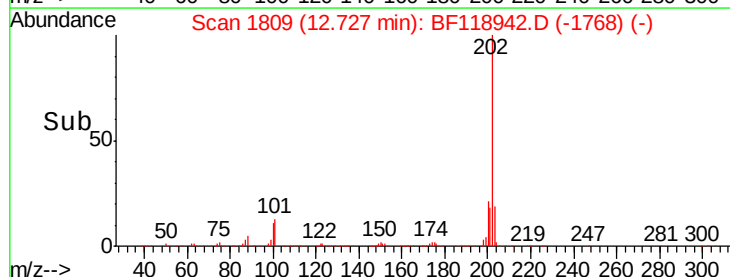
203 18.5 14.8 22.2

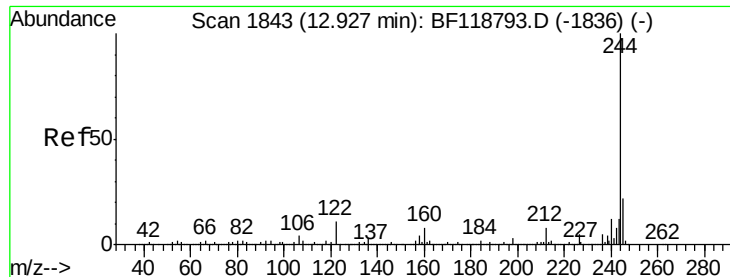


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 54.830 ng

RT: 12.87 min Scan# 1834

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

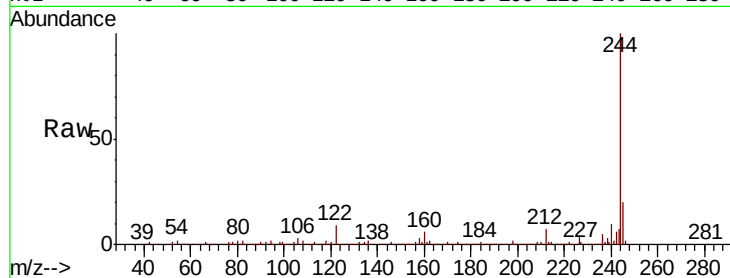
Tot Ion:244 Resp: 1072626

Ion Ratio Lower Upper

244 100

212 6.8 6.5 9.7

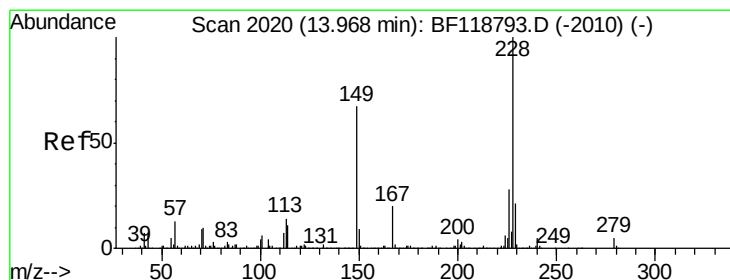
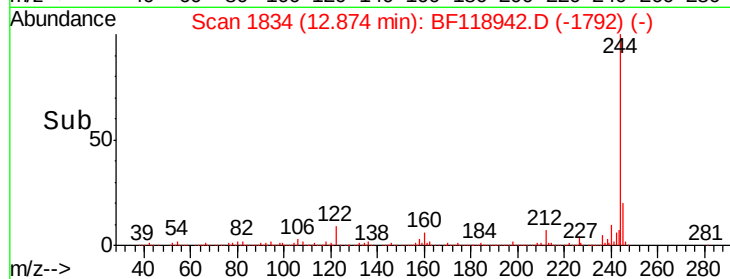
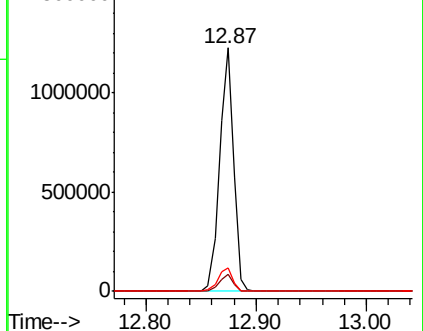
122 9.5 8.9 13.3



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: 6.732 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.05 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

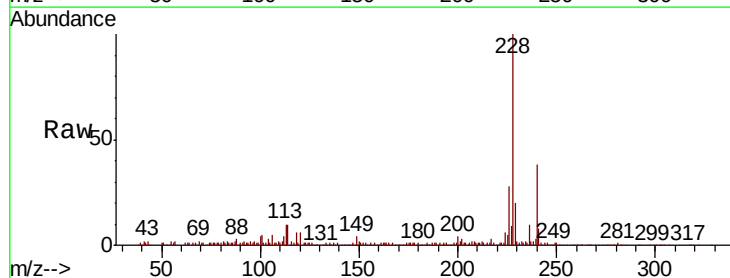
Tgt Ion:228 Resp: 160966

Ion Ratio Lower Upper

228 100

226 27.9 22.7 34.1

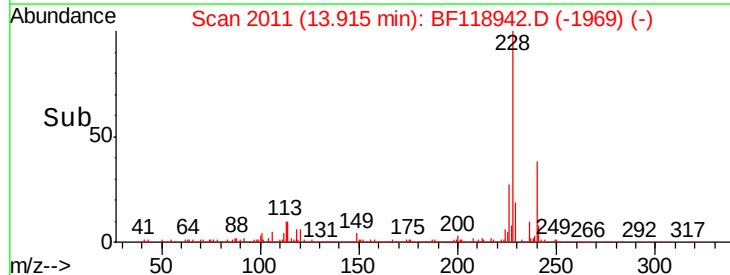
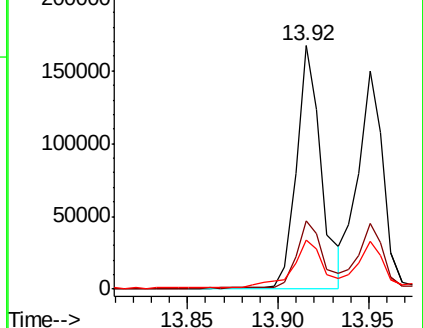
229 20.1 16.6 25.0

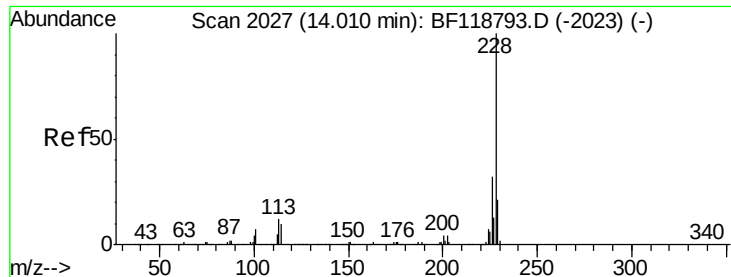


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 6.061 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.06 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

Instrument :

BNA_F

ClientSampleId :

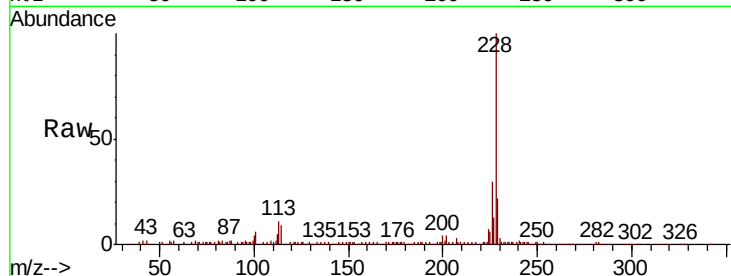
Tot Ion:228 Resp: 145459

Ion Ratio Lower Upper

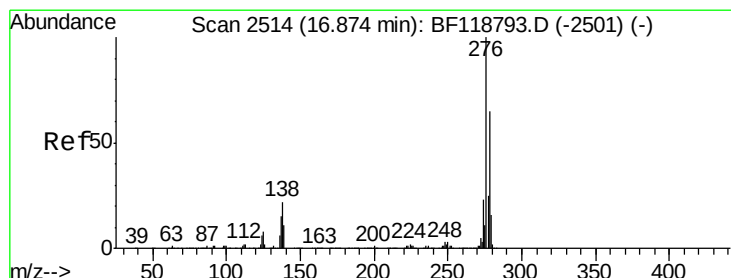
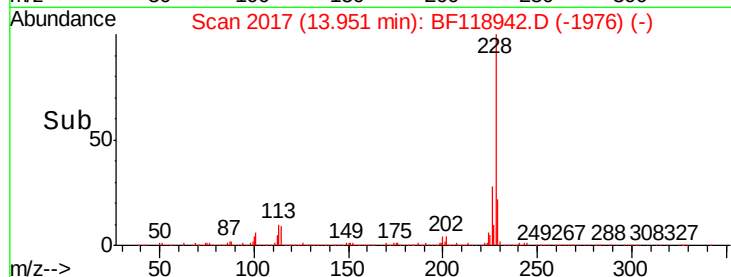
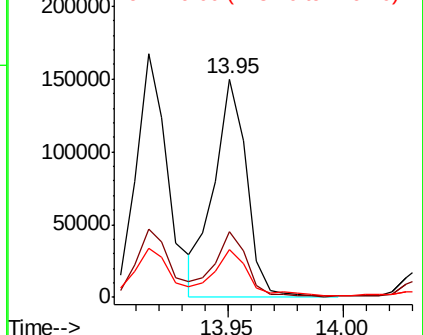
228 100

226 29.9 25.4 38.0

229 21.8 16.9 25.3



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: 5.841 ng

RT: 16.77 min Scan# 2497

Delta R.T. -0.10 min

Lab File: BF118942.D

Acq: 14 Feb 2020 20:11

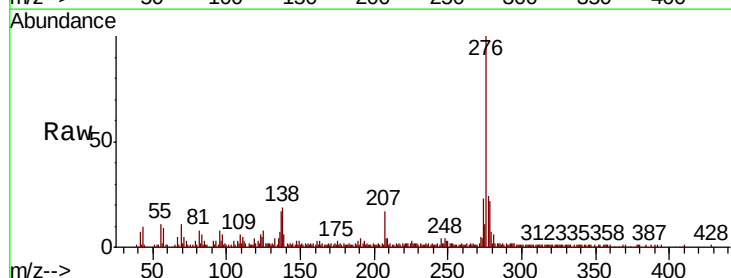
Tgt Ion:276 Resp: 140847

Ion Ratio Lower Upper

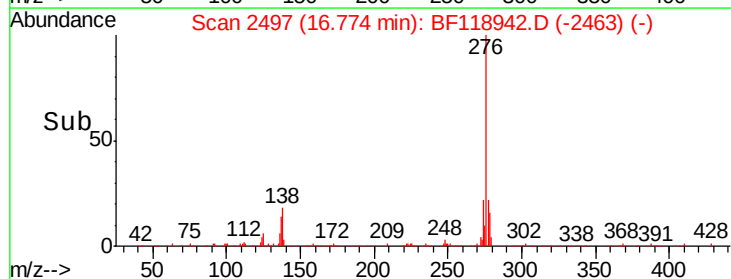
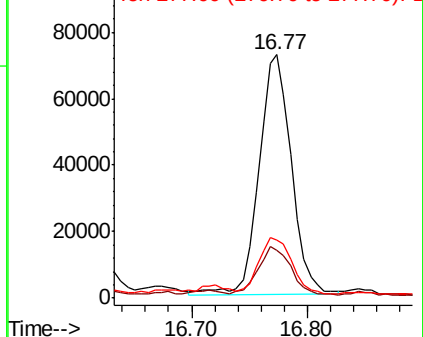
276 100

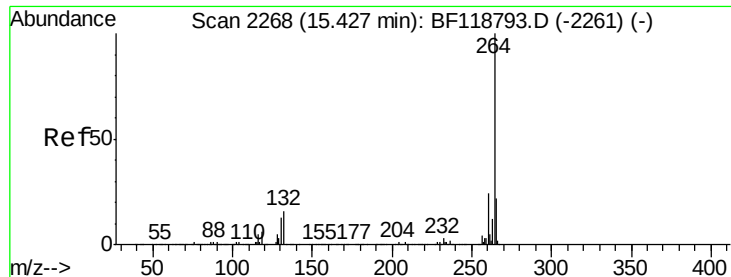
138 20.8 18.3 27.5

277 24.2 20.2 30.4



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

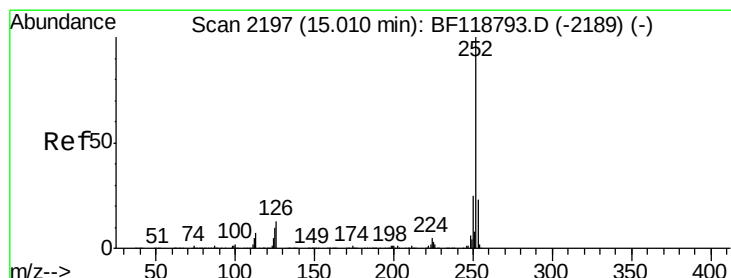
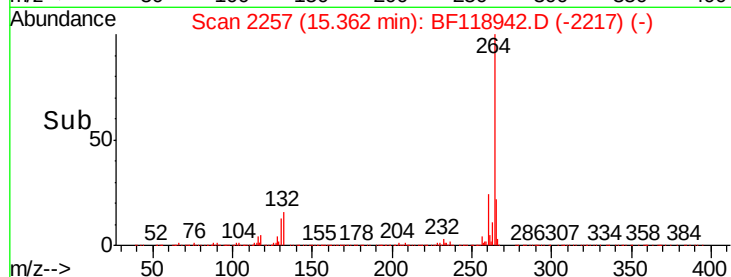
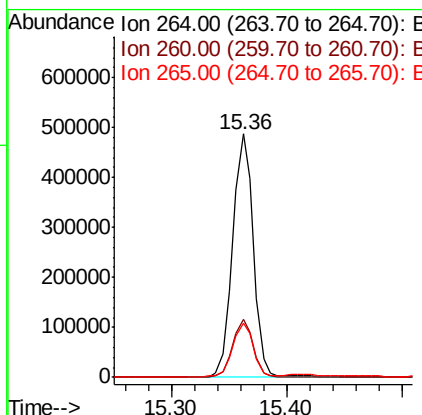
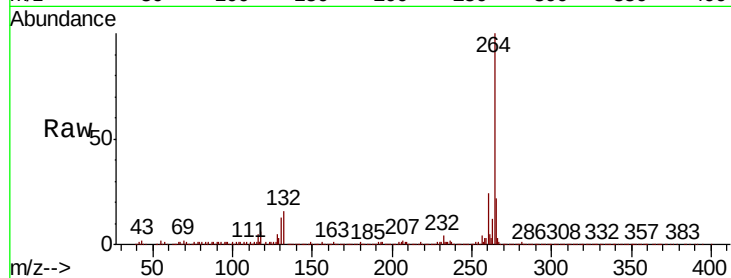




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.06 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

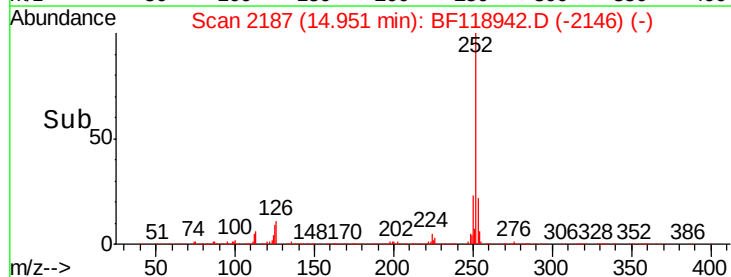
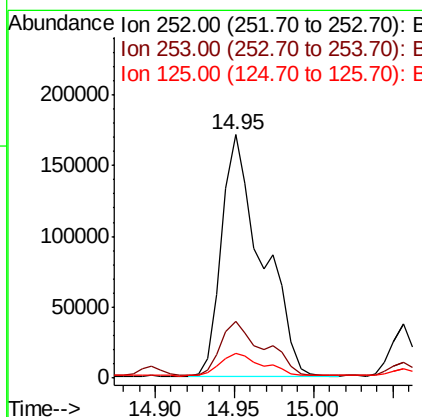
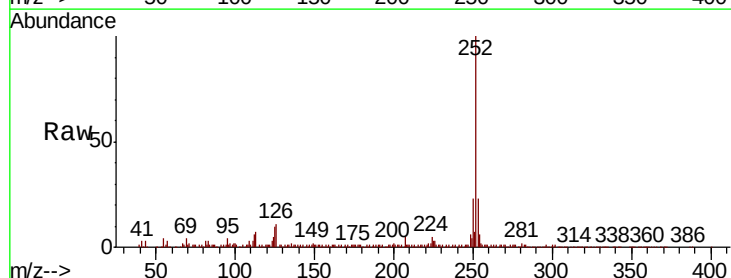
Instrument :
BNA_F
ClientSampleId :

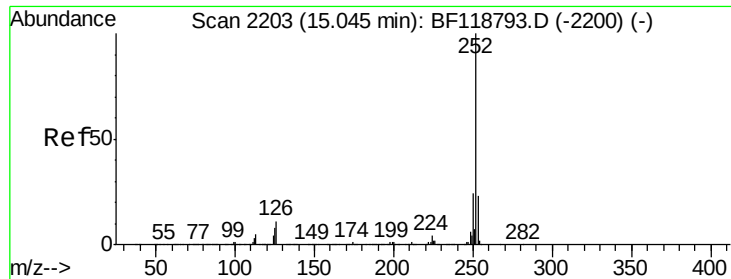
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.1	28.7
265	22.4	17.2	25.8



#88
Benzo(b)fluoranthene
Concen: 8.234 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.06 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.4	27.6
125	10.2	8.1	12.1

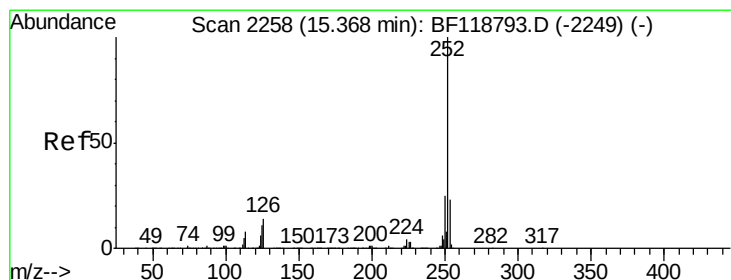
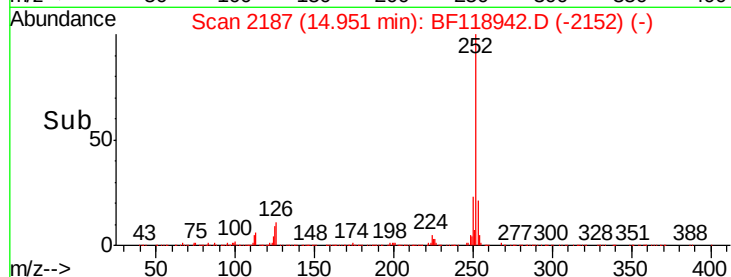
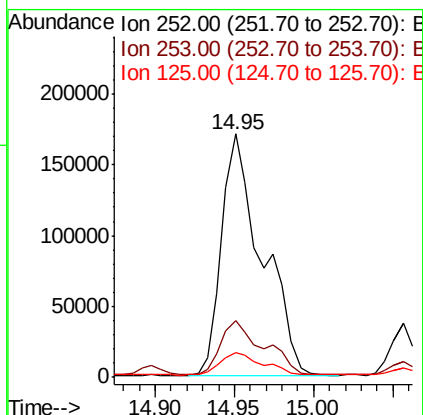
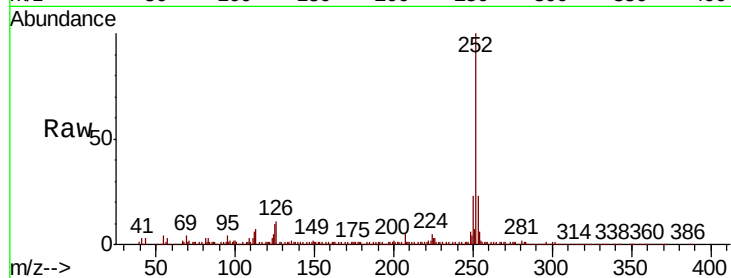




#89
Benzo(k)fluoranthene
Concen: 9.456 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.09 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

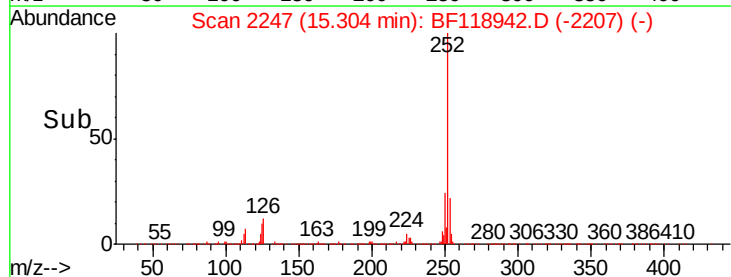
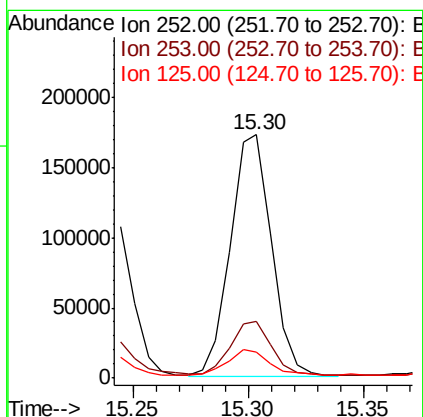
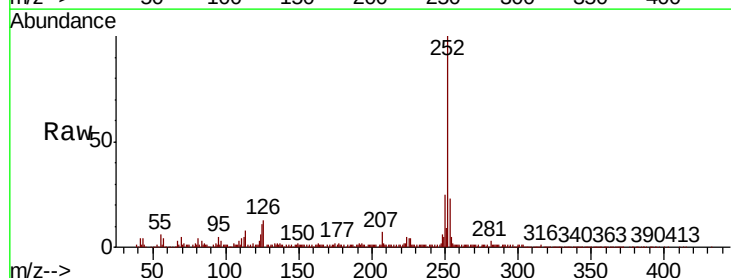
Instrument :
BNA_F
ClientSampleId :

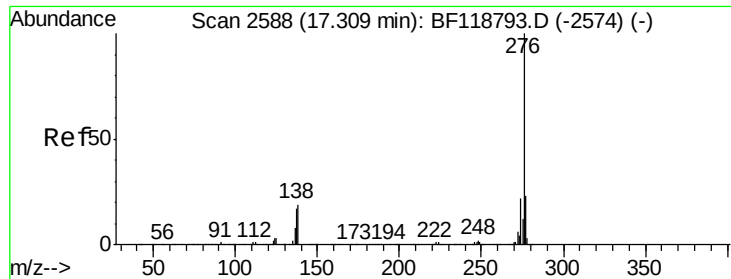
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	10.2	7.0	10.6



#90
Benzo(a)pyrene
Concen: 6.735 ng
RT: 15.30 min Scan# 2247
Delta R.T. -0.06 min
Lab File: BF118942.D
Acq: 14 Feb 2020 20:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	10.8	8.7	13.1





#92
 Benzo(a,h,i)perylene
 Concen: 3.370 ng
 RT: 17.20 min Scan# 2569
 Delta R.T. -0.11 min
 Lab File: BF118942.D
 Acq: 14 Feb 2020 20:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.7	28.1
138	19.4	15.4	23.2

