

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
 Data File : BF118610.D
 Acq On : 21 Jan 2020 00:07
 Operator : CG/JU
 Sample : L1014-06
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 21 01:44:35 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	497825	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	1706473	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	811527	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	1200484	20.00	ng	-0.01
76) Chrysene-d12	14.04	240	973544	20.00	ng	0.00
87) Perylene-d12	15.52	264	940594	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	2641613	98.55	ng	0.00
7) Phenol-d6	6.50	99	3391123	97.34	ng	0.00
23) Nitrobenzene-d5	7.44	82	2107458	69.08	ng	0.00
42) 2,4,6-Tribromophenol	10.70	330	771629	82.21	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	3503084	70.95	ng	0.00
79) Terphenyl-d14	12.99	244	3142970	70.41	ng	0.00

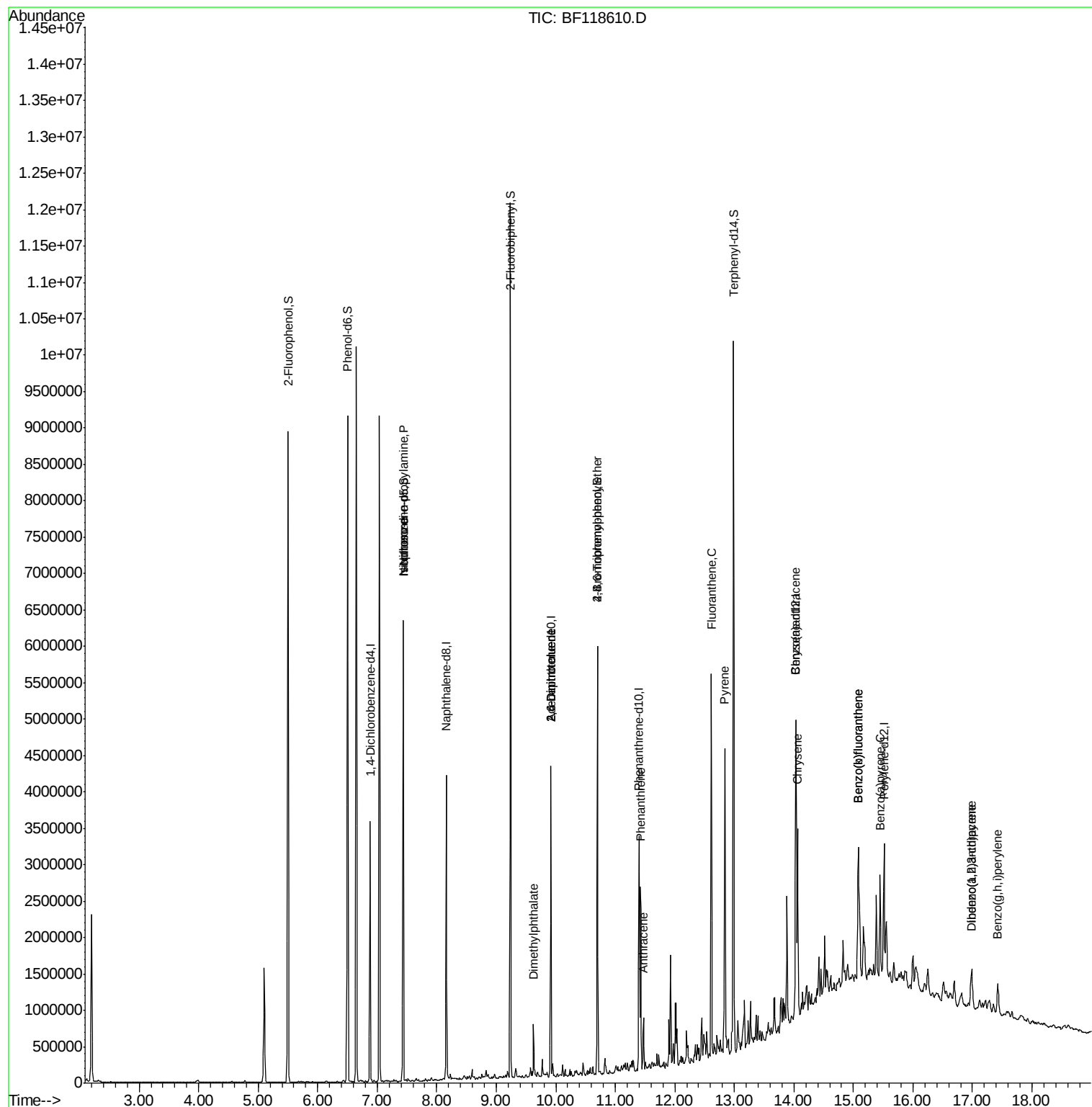
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.44	70	299703	12.740	ng	# 77
25) Isophorone	7.44	82	2101147	37.759	ng	# 64
50) Dimethylphthalate	9.63	163	242607	4.589	ng	97
51) 2,6-Dinitrotoluene	9.92	165	109737	9.269	ng	# 21
57) 2,4-Dinitrotoluene	9.92	165	109737	7.352	ng	# 25
67) 4-Bromophenyl-phenylether	10.70	248	49319	3.325	ng	# 1
71) Phenanthrene	11.42	178	956621	16.517	ng	94
72) Anthracene	11.47	178	253304	4.420	ng	92
75) Fluoranthene	12.62	202	1960220	32.090	ng	95
78) Pyrene	12.84	202	1840982	27.854	ng	94
81) Benzo(a)anthracene	14.03	228	1128093	19.263	ng	99
83) Chrysene	14.06	228	966741	17.224	ng	97
86) Indeno(1,2,3-cd)pyrene	16.98	276	405984	8.325	ng	96
88) Benzo(b)fluoranthene	15.08	252	1511809	25.571	ng	97
89) Benzo(k)fluoranthene	15.08	252	1511809	27.600	ng	98
90) Benzo(a)pyrene	15.45	252	758939	14.881	ng	99
91) Dibenzo(a,h)anthracene	17.00	278	103415	2.292	ng	# 86
92) Benzo(g,h,i)perylene	17.43	276	369856	8.444	ng	98

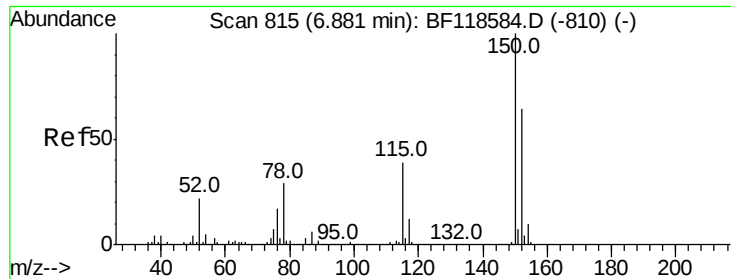
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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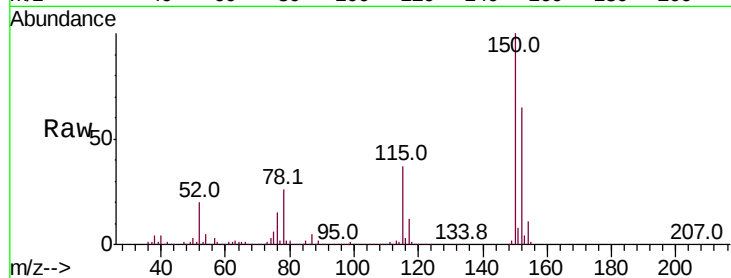


#1

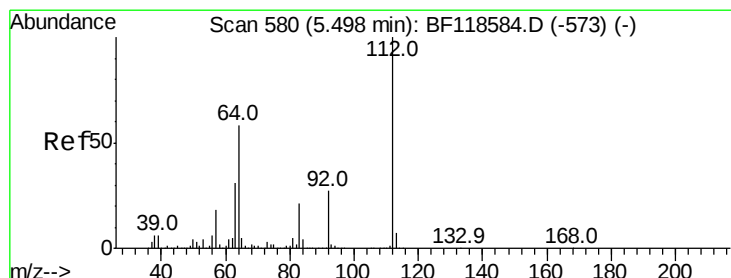
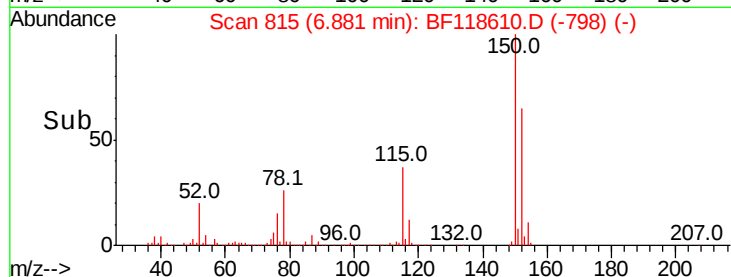
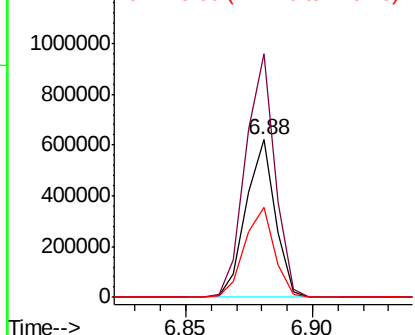
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 497825
Ion Ratio Lower Upper
152 100
150 154.3 125.6 188.4
115 57.3 48.4 72.6



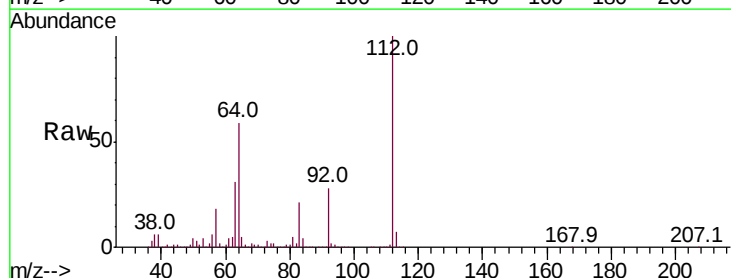
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



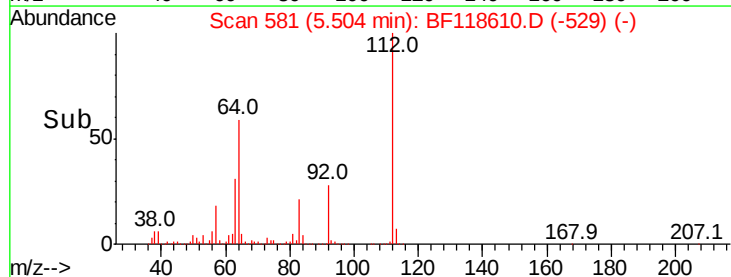
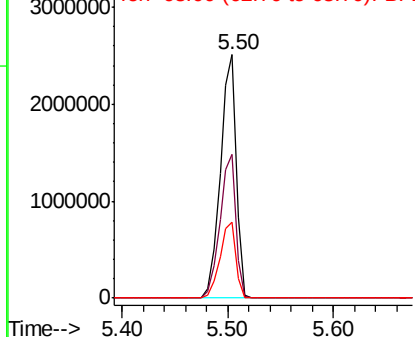
#5

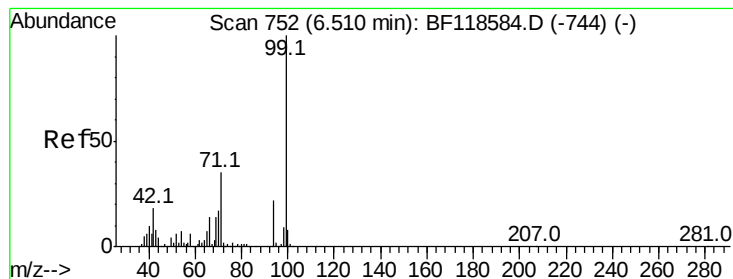
2-Fluorophenol
Concen: 98.552 ng
RT: 5.50 min Scan# 581
Delta R.T. 0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Tgt Ion:112 Resp: 2641613
Ion Ratio Lower Upper
112 100
64 59.0 46.6 70.0
63 31.2 25.1 37.7



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: 97.338 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampleId :

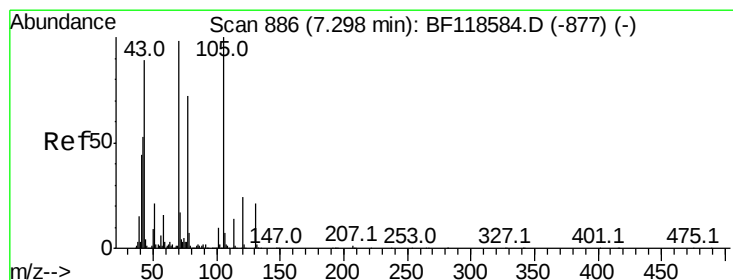
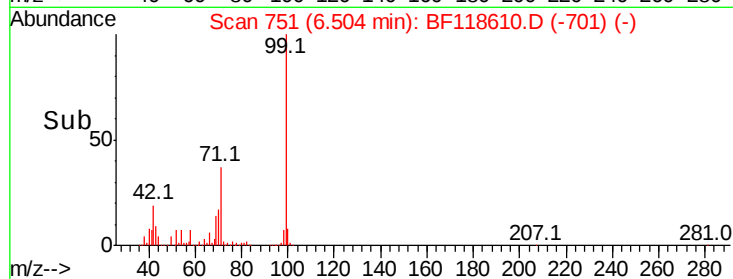
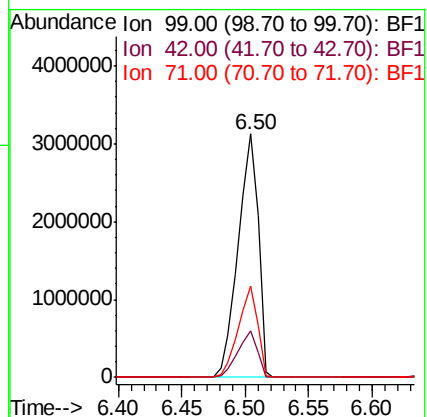
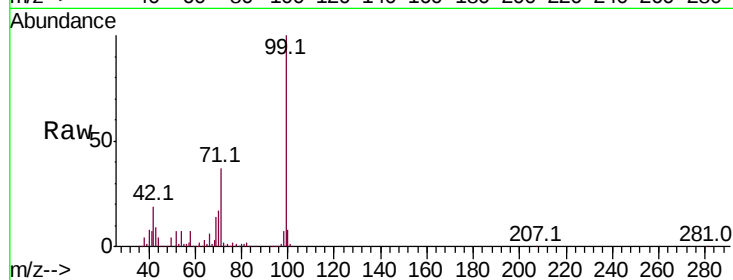
Tot Ion: 99 Resp: 3391123

Ion Ratio Lower Upper

99 100

42 19.1 14.2 21.2

71 37.3 27.8 41.6



#19

n-Nitroso-di-n-propylamine

Concen: 12.740 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.14 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Tgt Ion: 70 Resp: 299703

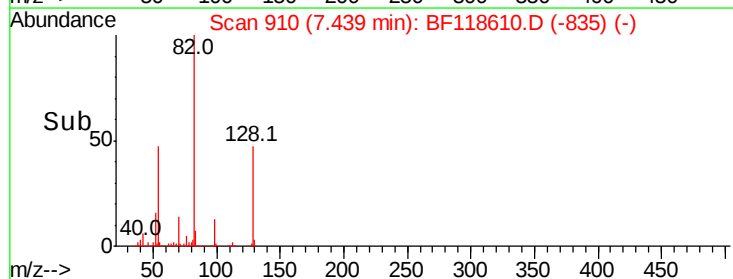
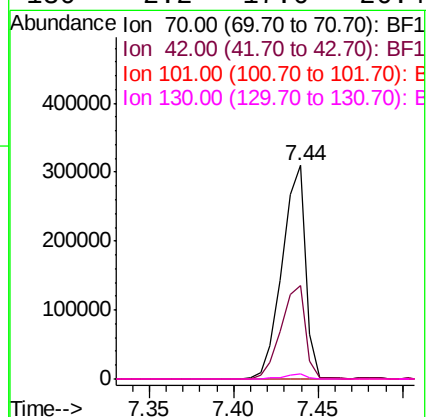
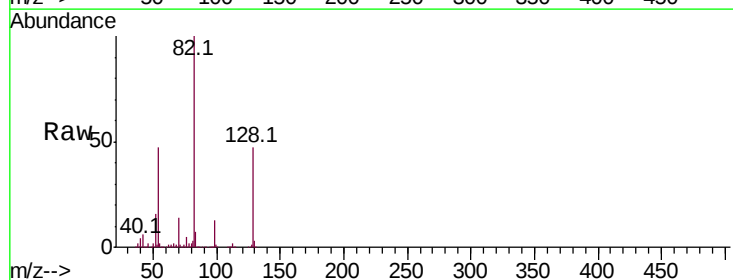
Ion Ratio Lower Upper

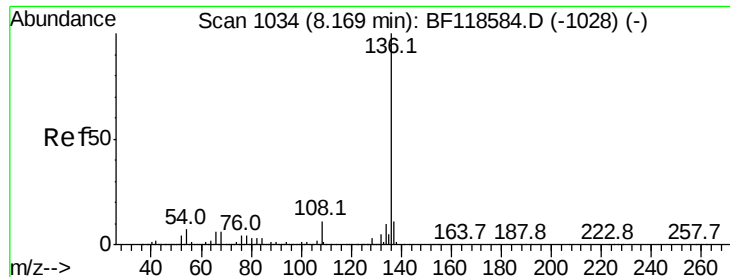
70 100

42 43.9 43.4 65.0

101 0.0 8.1 12.1#

130 2.2 17.6 26.4#

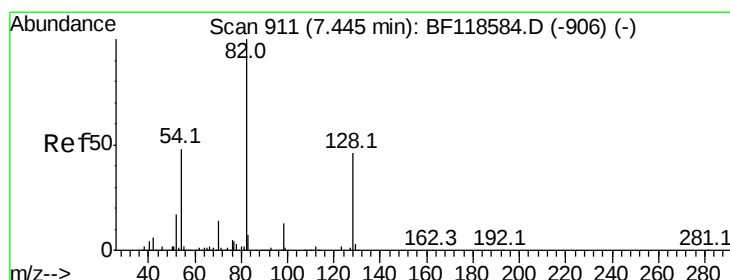
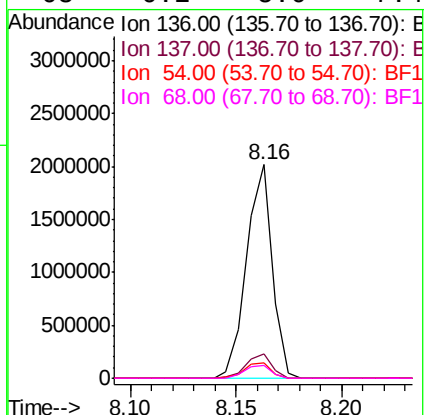
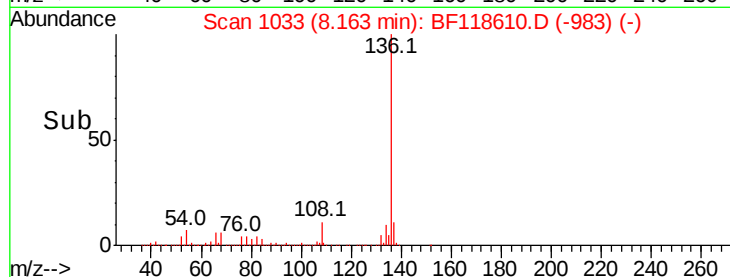
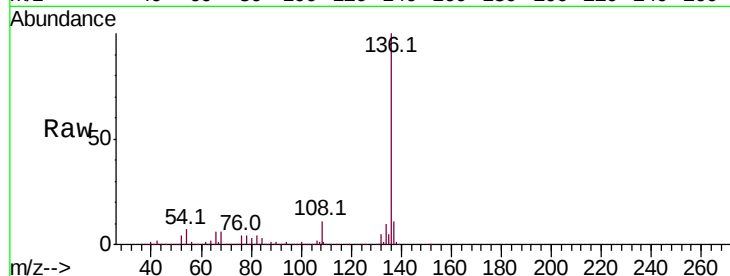




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

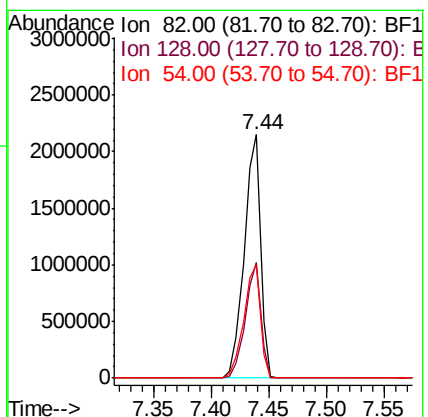
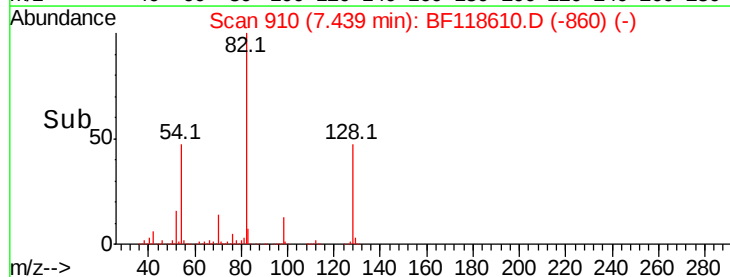
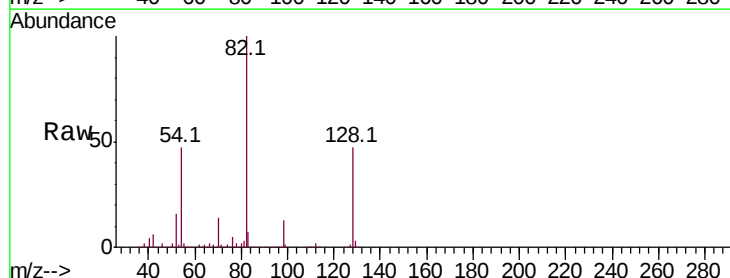
Instrument :
BNA_F
ClientSampleId :

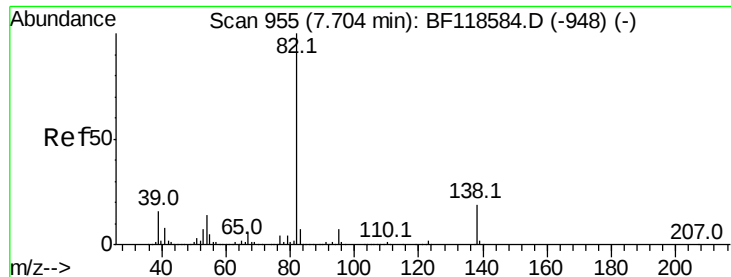
Tot Ion:136 Resp: 1706473
Ion Ratio Lower Upper
136 100
137 11.5 9.1 13.7
54 7.2 5.8 8.6
68 6.2 5.0 7.4



#23
Nitrobenzene-d5
Concen: 69.077 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Tgt Ion: 82 Resp: 2107458
Ion Ratio Lower Upper
82 100
128 47.5 36.6 54.8
54 46.7 38.0 57.0





#25

Isophorone

Concen: 37.759 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampleId :

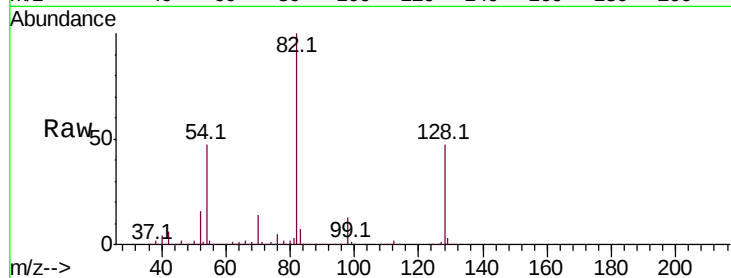
Tot Ion: 82 Resp: 2101147

Ion Ratio Lower Upper

82 100

95 0.1 5.9 8.9#

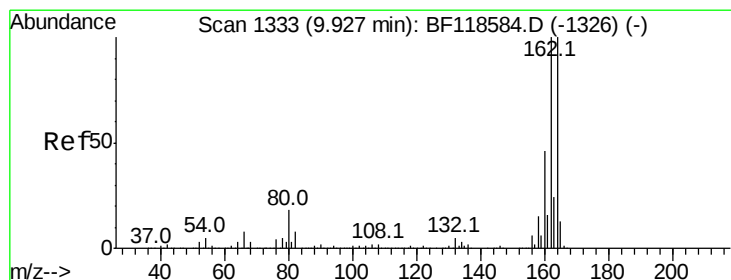
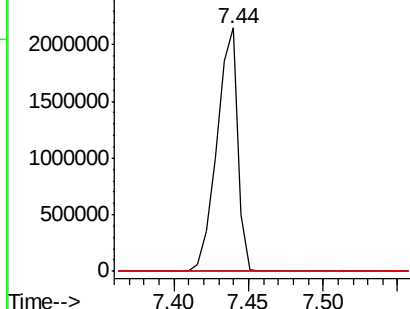
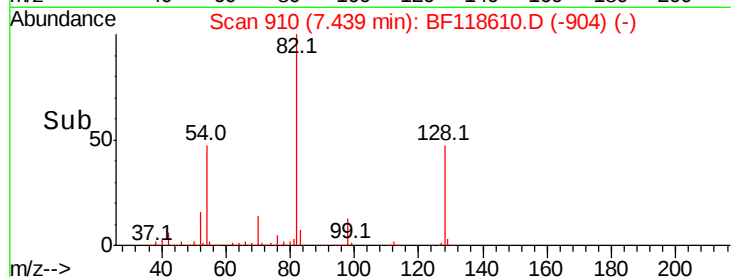
138 0.0 15.3 22.9#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

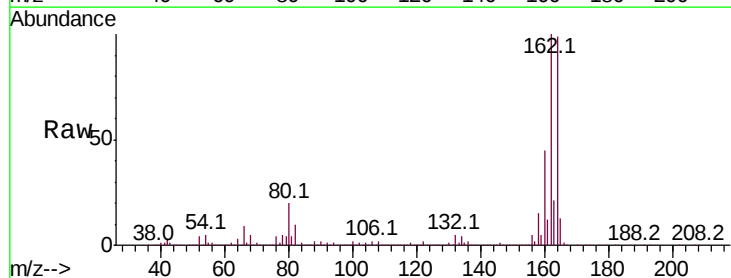
Tgt Ion:164 Resp: 811527

Ion Ratio Lower Upper

164 100

162 101.1 80.4 120.6

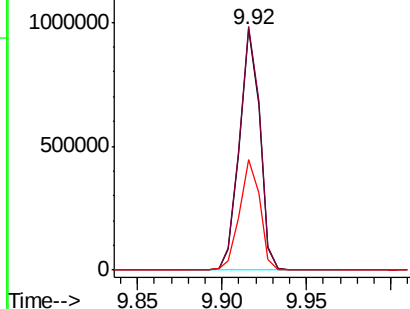
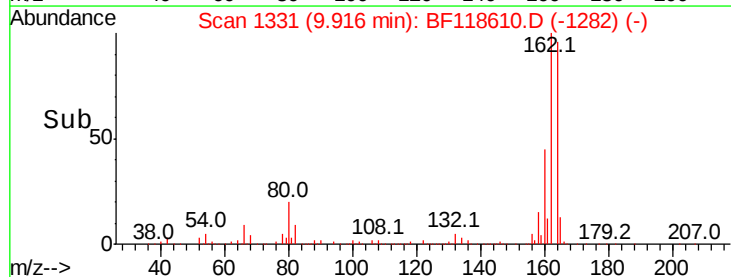
160 45.7 36.6 55.0

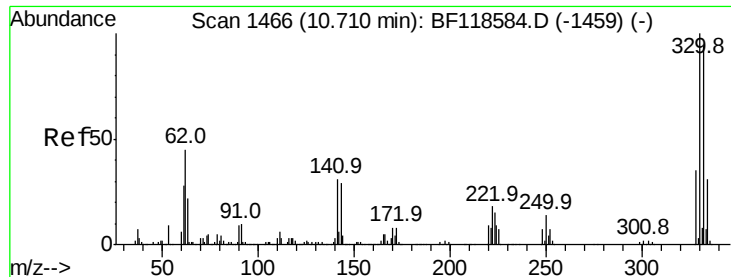


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

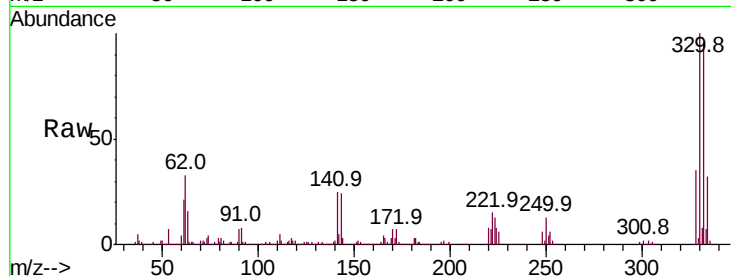




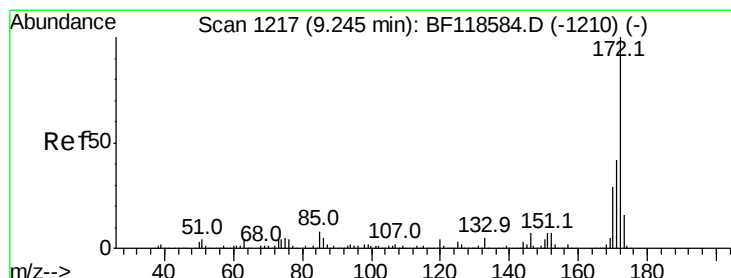
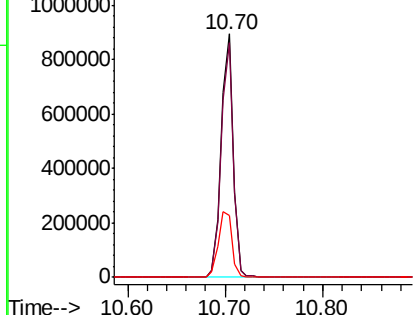
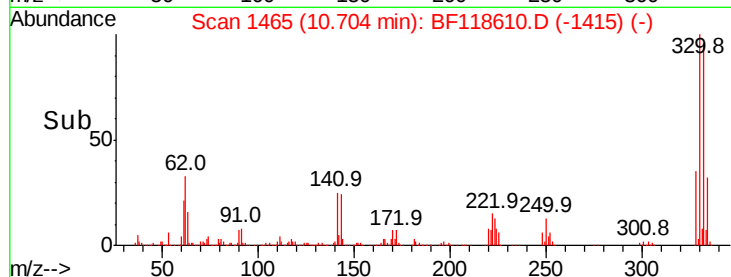
#42
 2,4,6-Tribromophenol
 Concen: 82.208 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.2	114.4
141	30.0	23.9	35.9

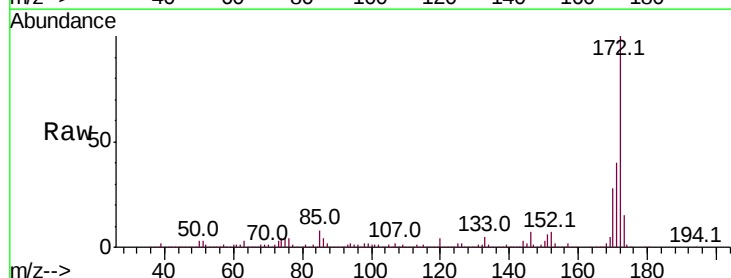


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

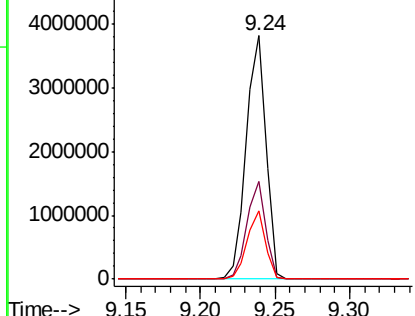
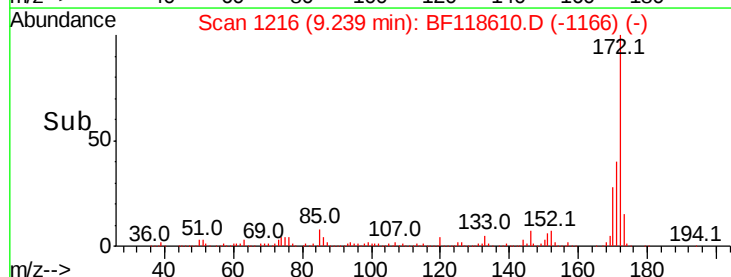


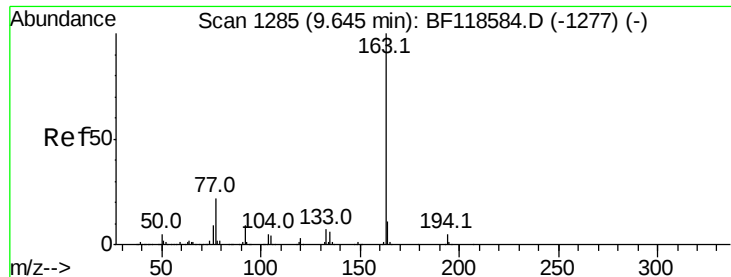
#45
 2-Fluorobiphenyl
 Concen: 70.949 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.3	33.4	50.2
170	27.9	23.2	34.8



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: 4.589 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampleId :

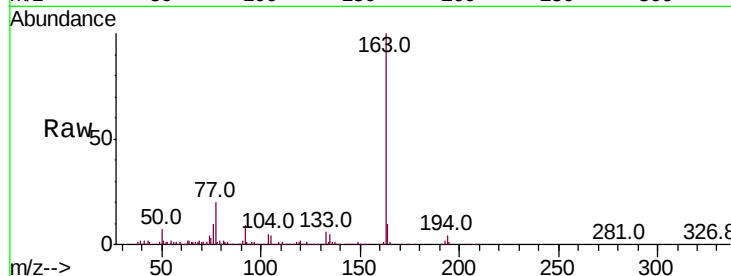
Tot Ion:163 Resp: 242607

Ion Ratio Lower Upper

163 100

194 4.2 3.9 5.9

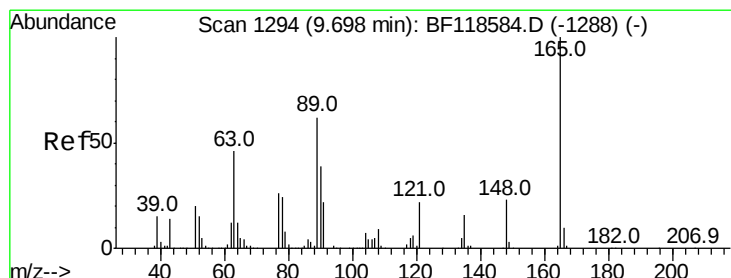
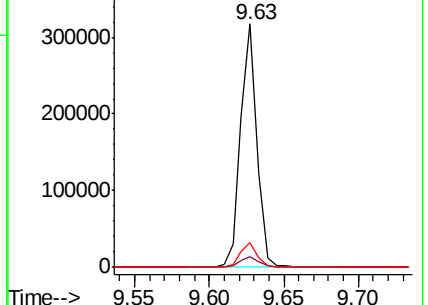
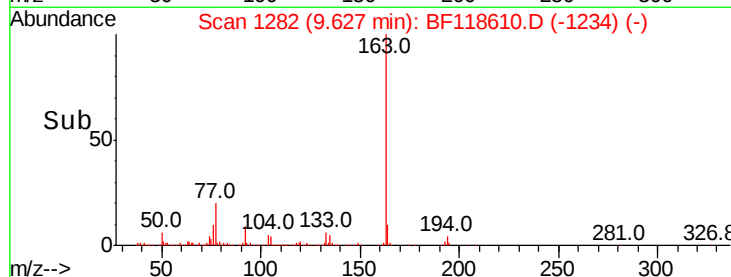
164 10.1 9.1 13.7



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: 9.269 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.22 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

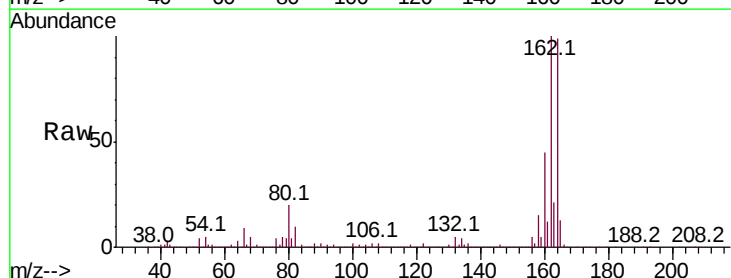
Tgt Ion:165 Resp: 109737

Ion Ratio Lower Upper

165 100

63 1.2 48.9 73.3#

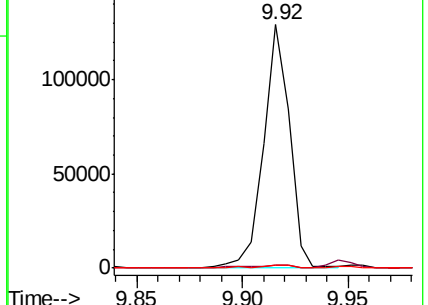
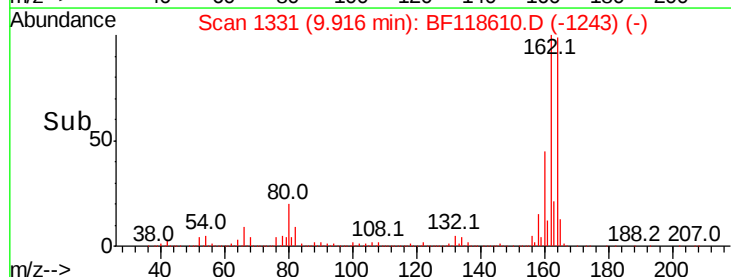
89 1.4 49.8 74.6#

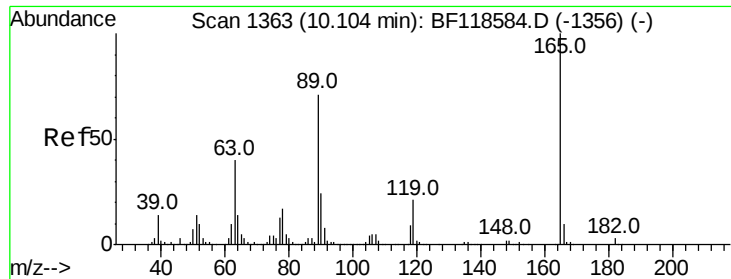


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

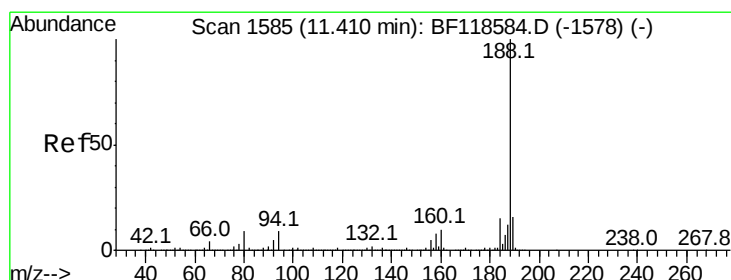
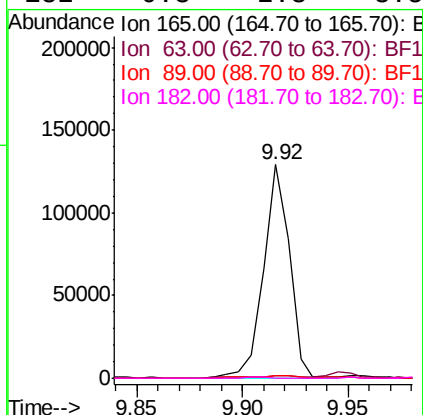
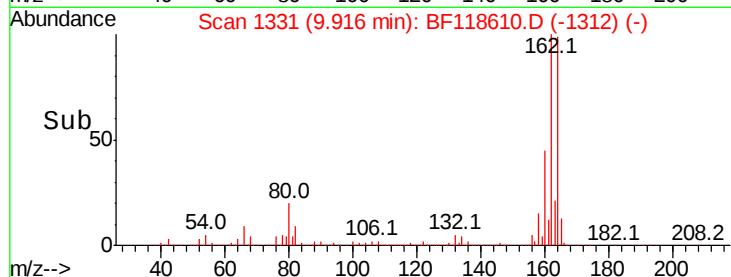
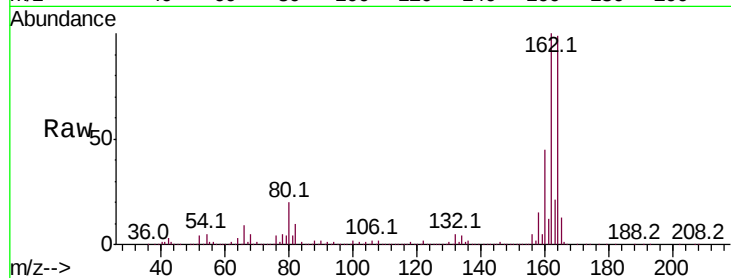




#57
 2,4-Dinitrotoluene
 Concen: 7.352 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.19 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

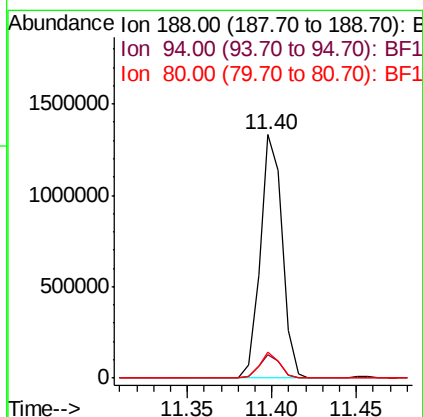
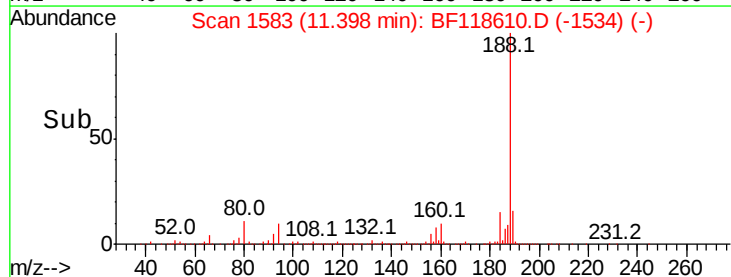
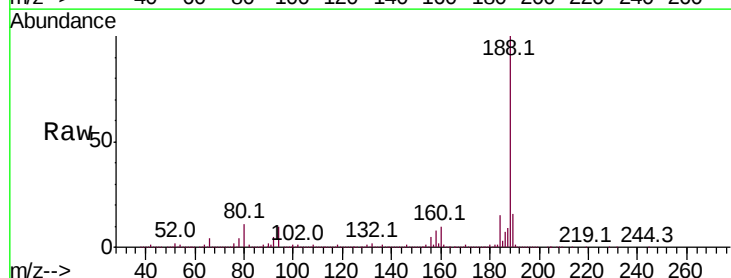
Instrument :
 BNA_F
 ClientSampleId :

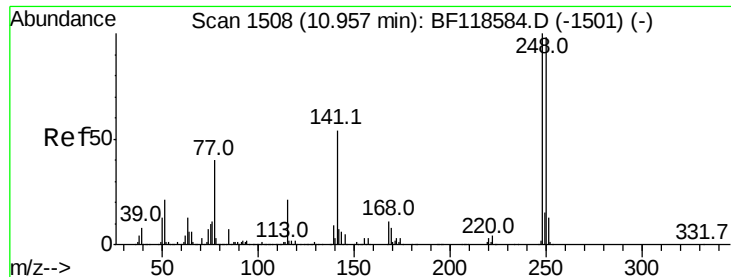
Tot Ion:165	Resp: 109737
Ion Ratio	Lower Upper
165 100	
63 1.2	32.4 48.6#
89 1.4	56.4 84.6#
182 0.3	2.3 3.5#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.01 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Tgt Ion	188	Resp: Lower	1200484 Upper
	Ratio		
188	100		
94	9.7	7.1	10.7
80	10.6	7.5	11.3

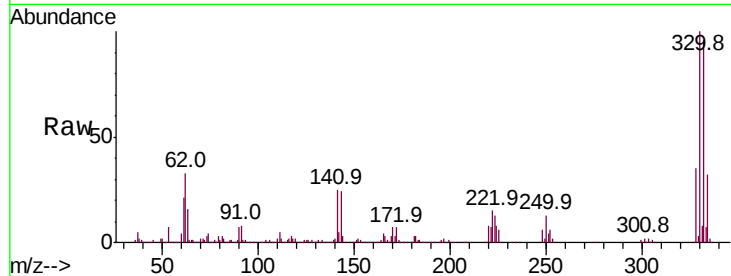




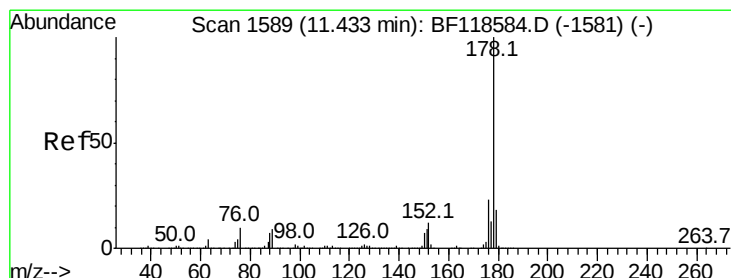
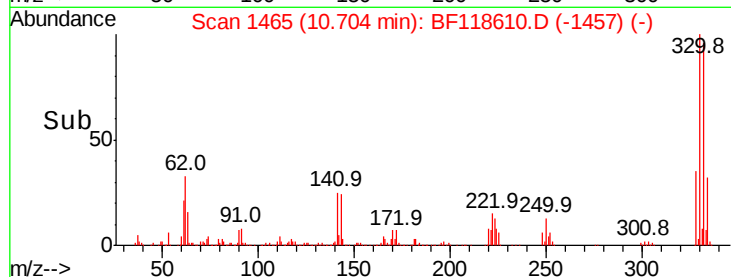
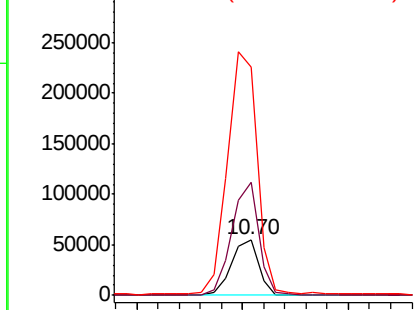
#67
 4-Bromophenyl-phenylether
 Concen: 3.325 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.25 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 49319
 Ion Ratio Lower Upper
 248 100
 250 202.0 78.7 118.1#
 141 408.1 43.2 64.8#

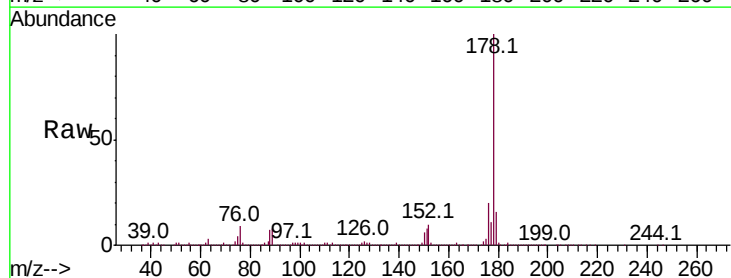


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

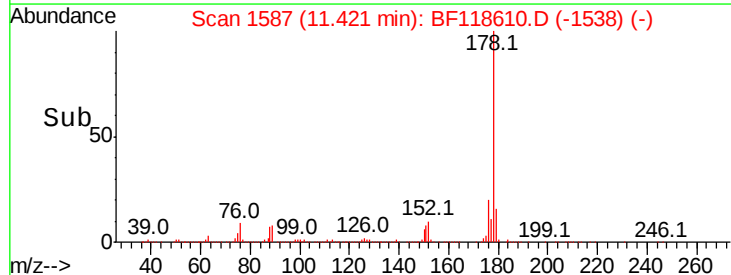
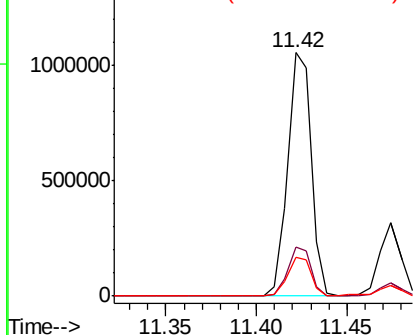


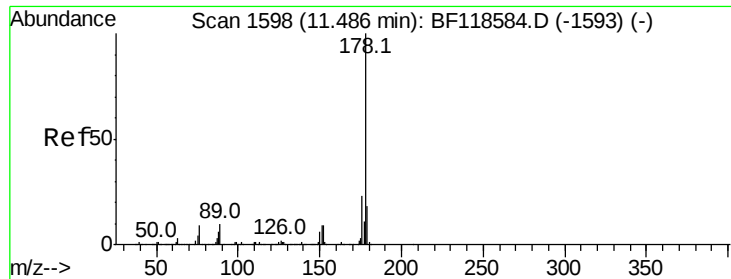
#71
 Phenanthrene
 Concen: 16.517 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Tgt Ion:178 Resp: 956621
 Ion Ratio Lower Upper
 178 100
 176 20.4 18.6 27.8
 179 15.9 14.7 22.1



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





#72

Anthracene

Concen: 4.420 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampled :

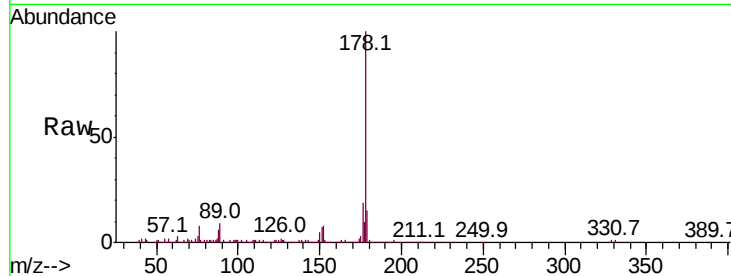
Tot Ion:178 Resp: 253304

Ion Ratio Lower Upper

178 100

176 18.6 18.0 27.0

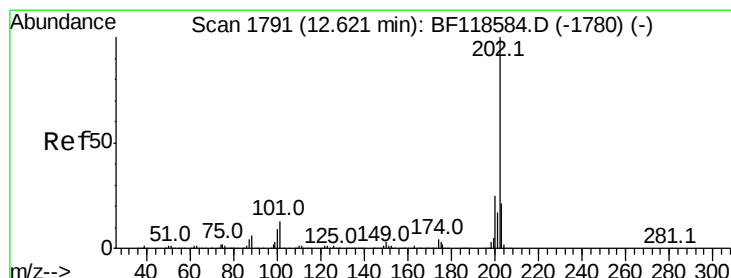
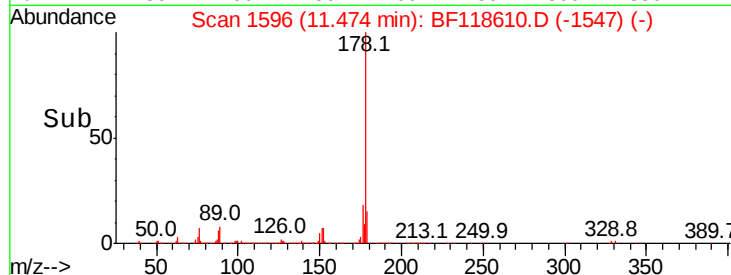
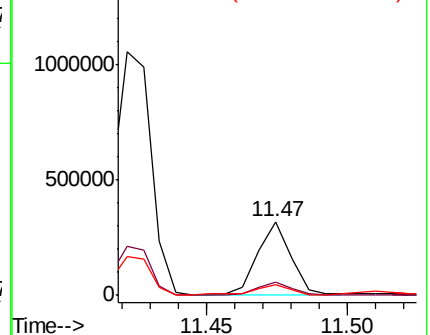
179 15.1 14.7 22.1



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



#75

Fluoranthene

Concen: 32.090 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

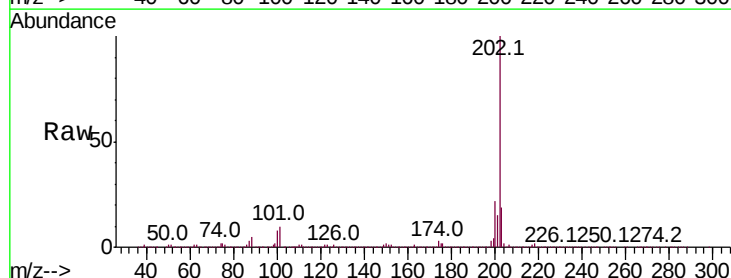
Tgt Ion:202 Resp: 1960220

Ion Ratio Lower Upper

202 100

101 10.4 0.0 32.5

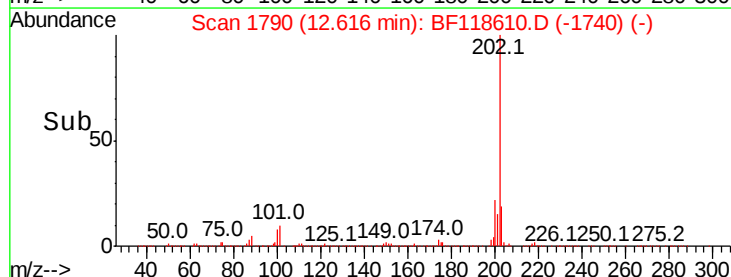
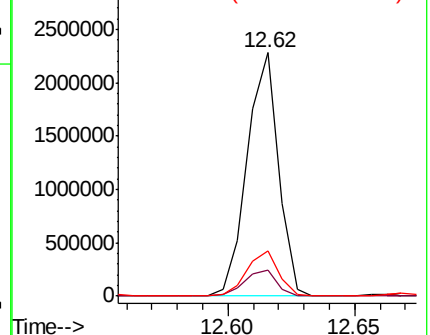
203 18.7 0.8 40.8

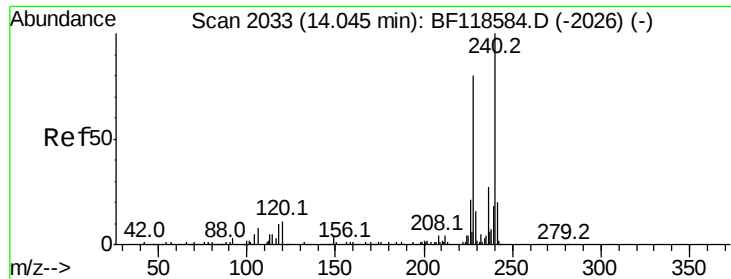


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

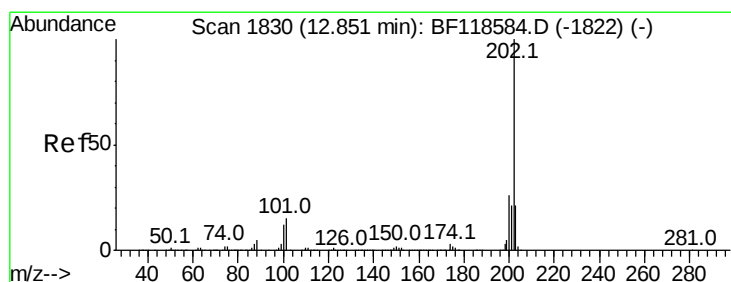
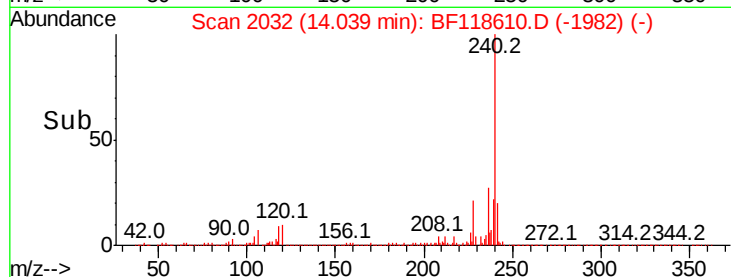
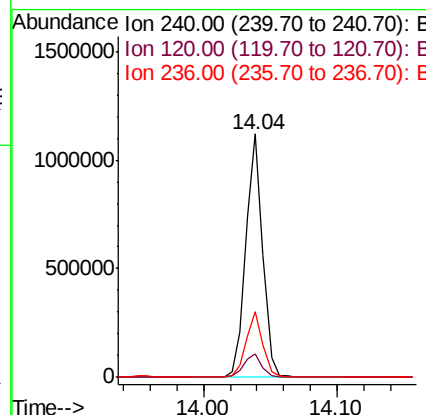
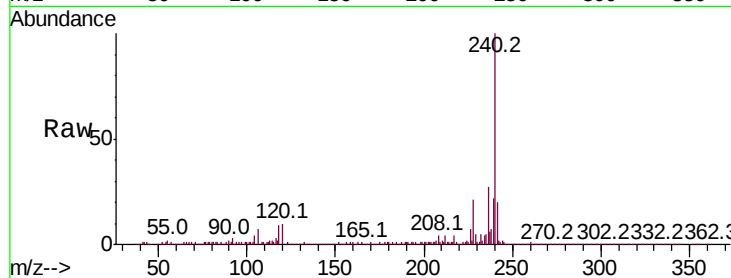




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

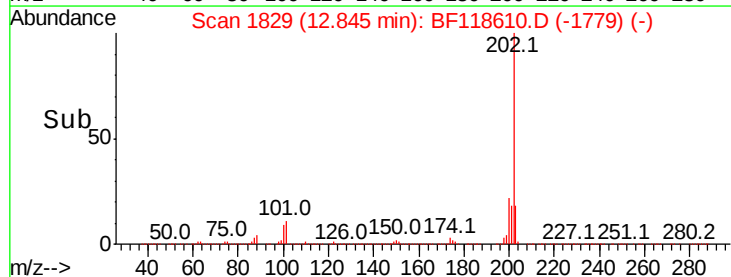
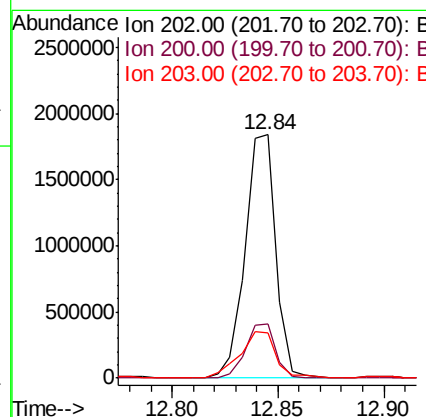
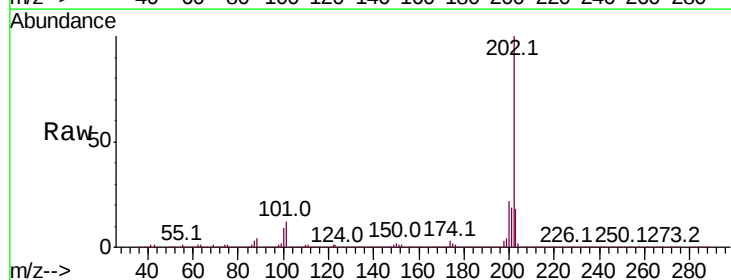
Instrument :
BNA_F
ClientSampled :

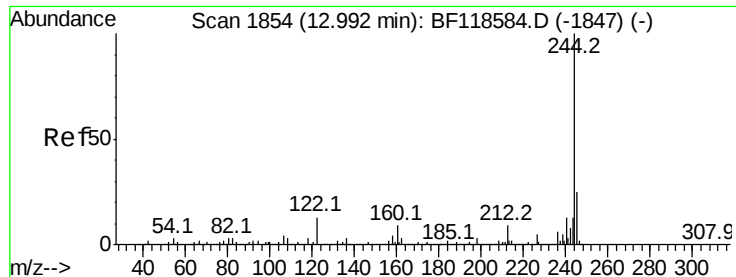
Tot Ion:240 Resp: 973544
Ion Ratio Lower Upper
240 100
120 9.9 8.9 13.3
236 26.9 21.5 32.3



#78
Pyrene
Concen: 27.854 ng
RT: 12.84 min Scan# 1829
Delta R.T. -0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Tgt Ion:202 Resp: 1840982
Ion Ratio Lower Upper
202 100
200 22.5 20.6 31.0
203 18.3 16.8 25.2





#79

Terphenyl-d14

Concen: 70.414 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampleId :

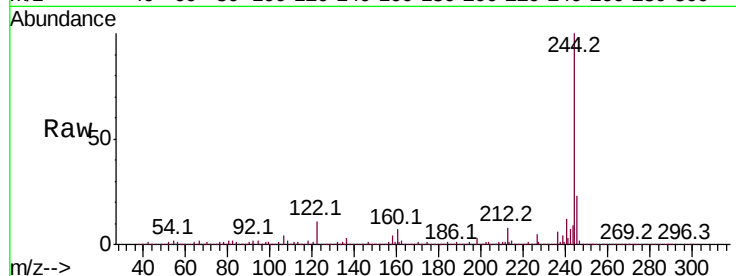
Tot Ion:244 Resp: 3142970

Ion Ratio Lower Upper

244 100

212 7.7 7.0 10.4

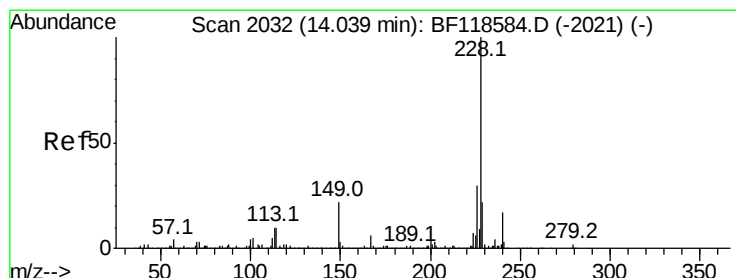
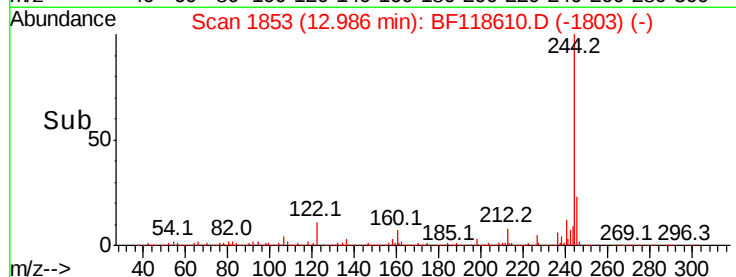
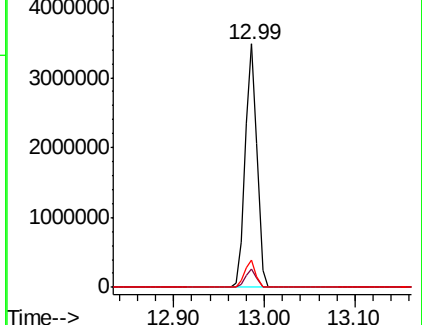
122 11.2 10.7 16.1



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: 19.263 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

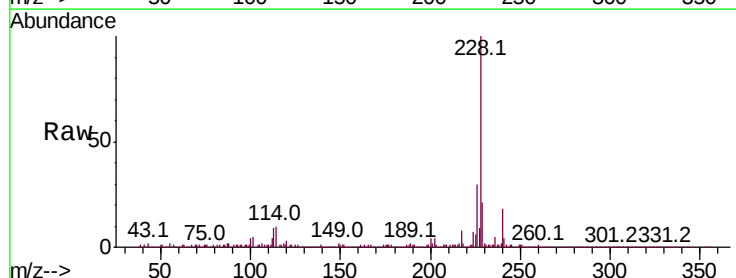
Tgt Ion:228 Resp: 1128093

Ion Ratio Lower Upper

228 100

226 30.3 24.1 36.1

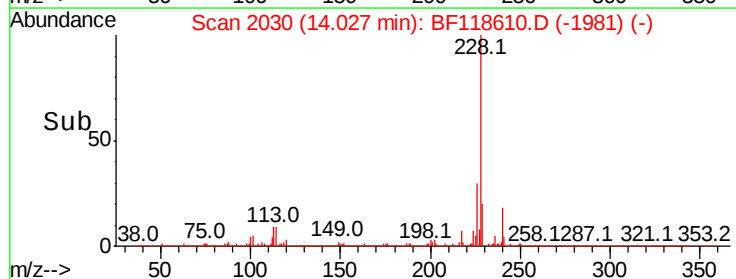
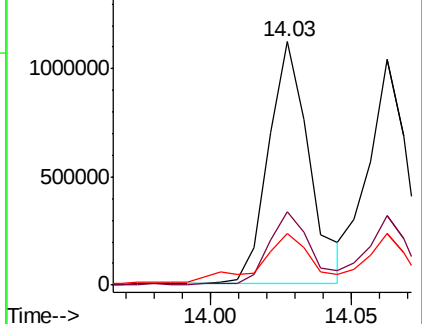
229 21.3 17.6 26.4

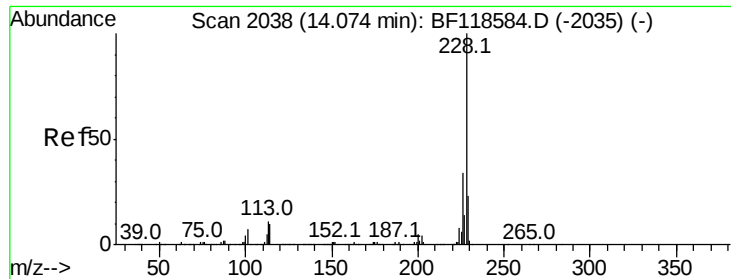


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 17.224 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :

BNA_F

ClientSampleId :

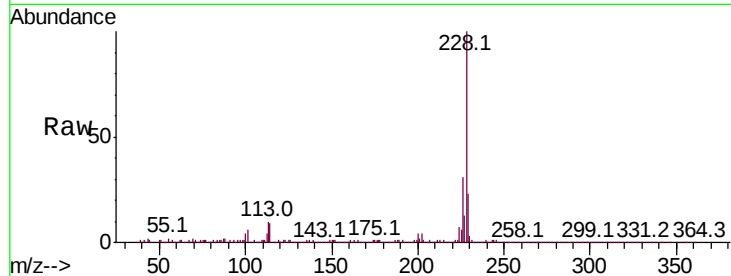
Tot Ion:228 Resp: 966741

Ion Ratio Lower Upper

228 100

226 31.1 27.4 41.0

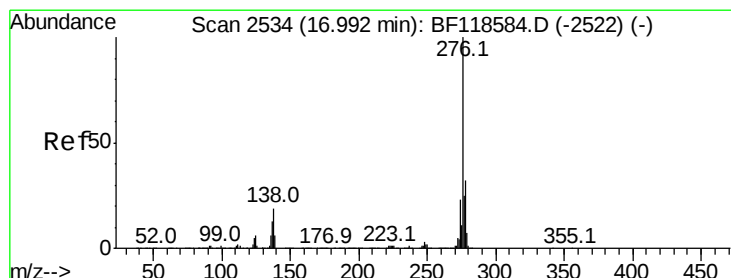
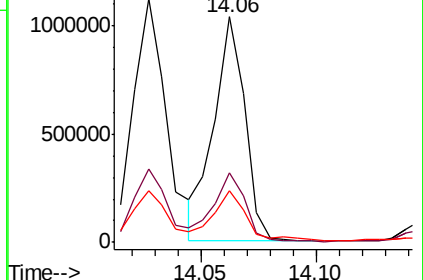
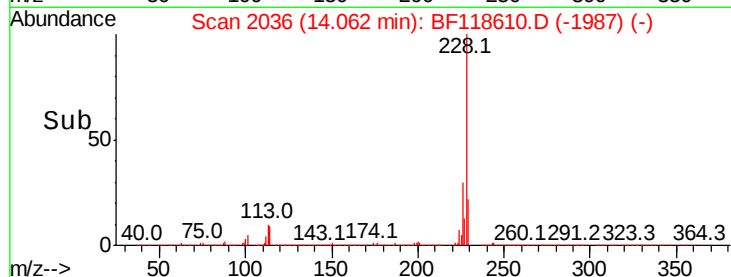
229 23.1 18.3 27.5



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: 8.325 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

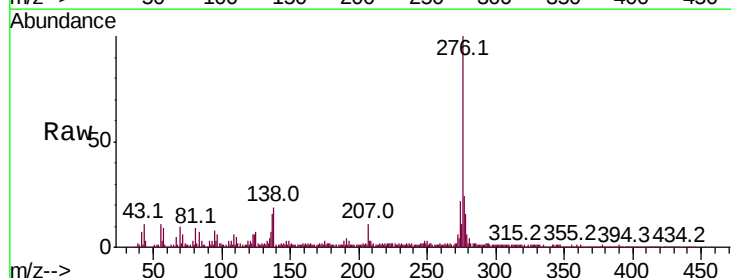
Tgt Ion:276 Resp: 405984

Ion Ratio Lower Upper

276 100

138 19.0 17.2 25.8

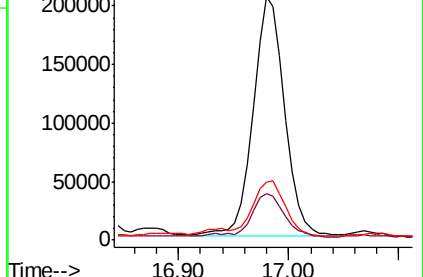
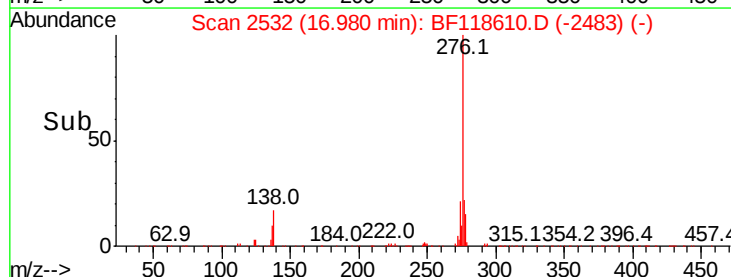
277 24.1 20.5 30.7

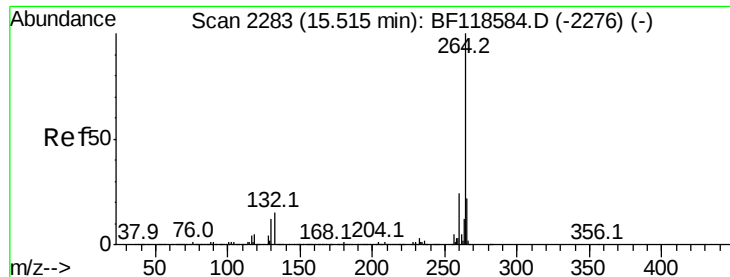


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

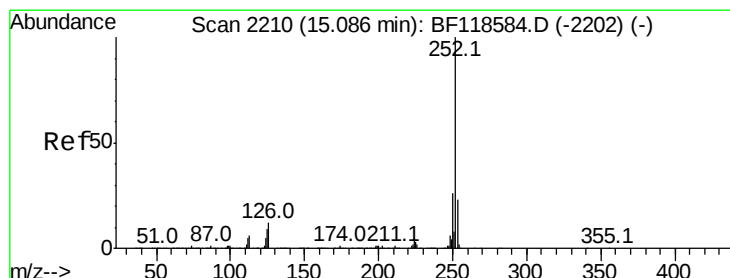
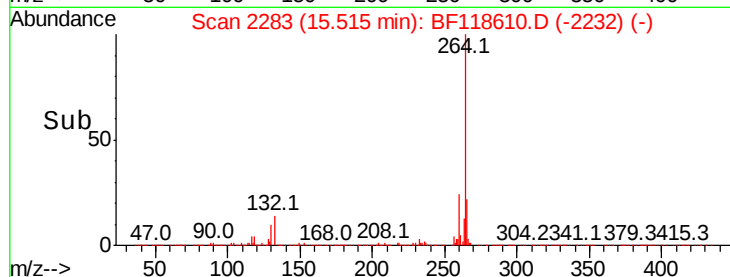
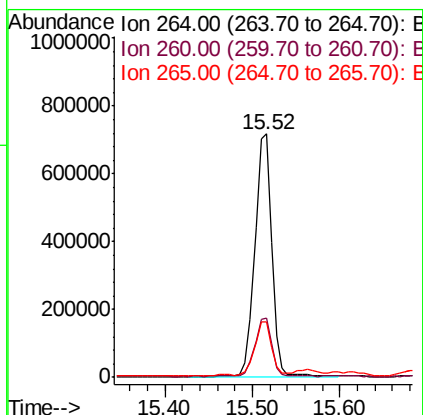
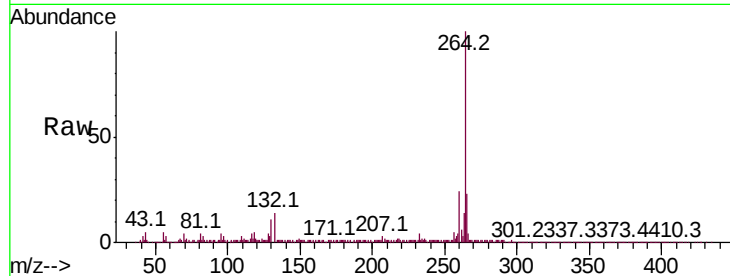




#87
 Pervlene-d12
 Concen: 20.000 ng
 RT: 15.52 min Scan# 2283
 Delta R.T. 0.00 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

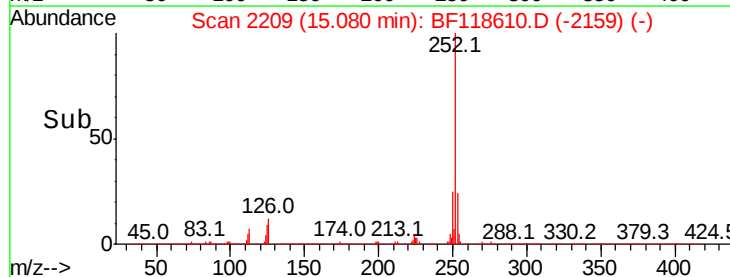
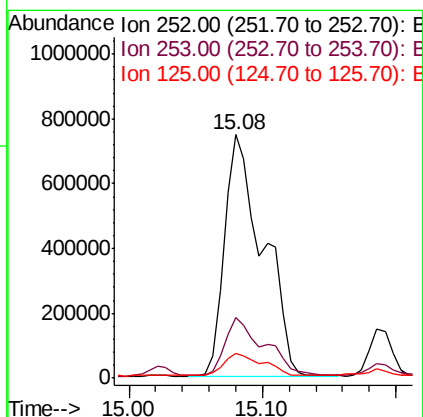
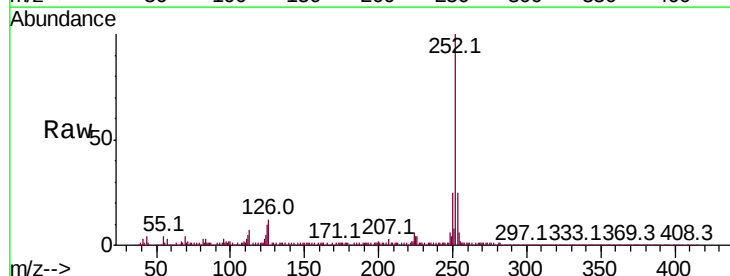
Instrument :
 BNA_F
 ClientSampleId :

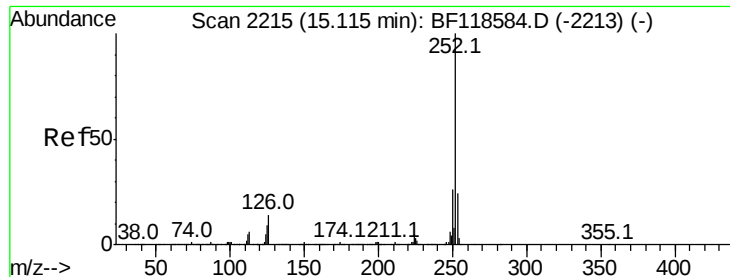
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	22.9	17.7	26.5



#88
 Benzo(b)fluoranthene
 Concen: 25.571 ng
 RT: 15.08 min Scan# 2209
 Delta R.T. -0.01 min
 Lab File: BF118610.D
 Acq: 21 Jan 2020 00:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.7	28.1
125	10.2	7.3	10.9





#89

Benzo(k)fluoranthene

Concen: 27.600 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.04 min

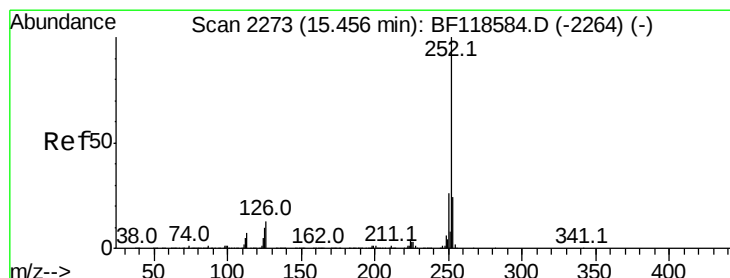
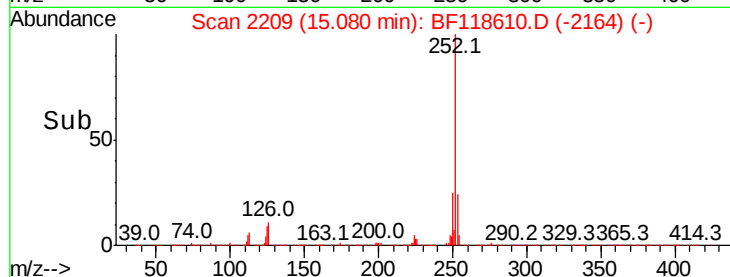
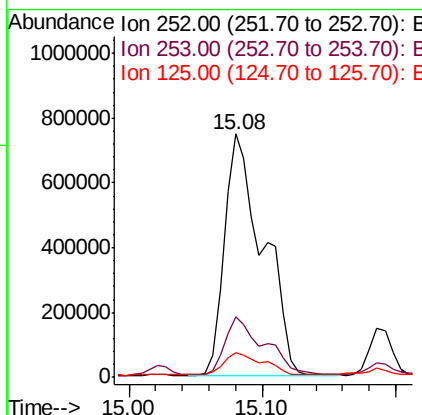
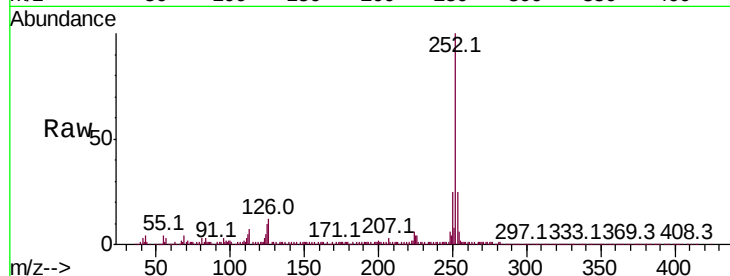
Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 1511809

Ion	Ratio	Lower	Upper
252	100		
253	24.7	19.0	28.4
125	10.2	7.6	11.4



#90

Benzo(a)pyrene

Concen: 14.881 ng

RT: 15.45 min Scan# 2272

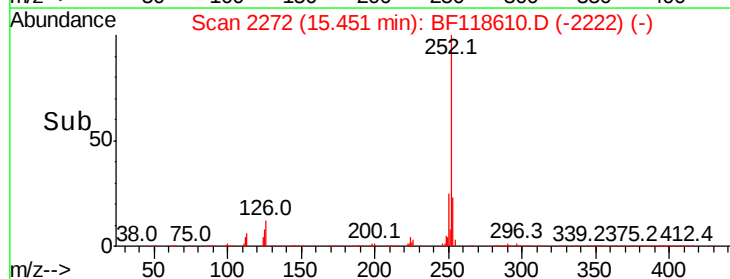
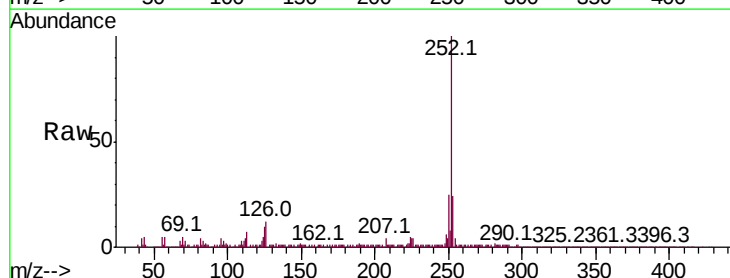
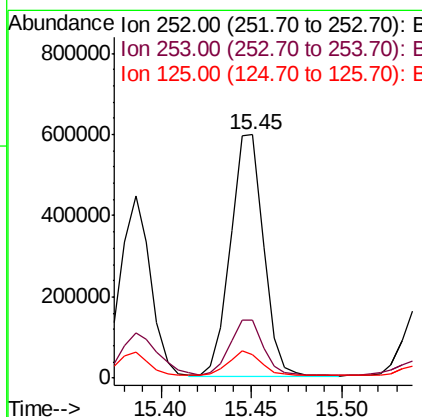
Delta R.T. -0.01 min

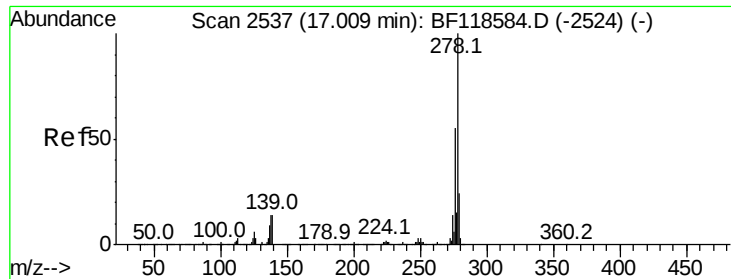
Lab File: BF118610.D

Acq: 21 Jan 2020 00:07

Tgt Ion:252 Resp: 758939

Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.8	28.2
125	9.6	7.8	11.6

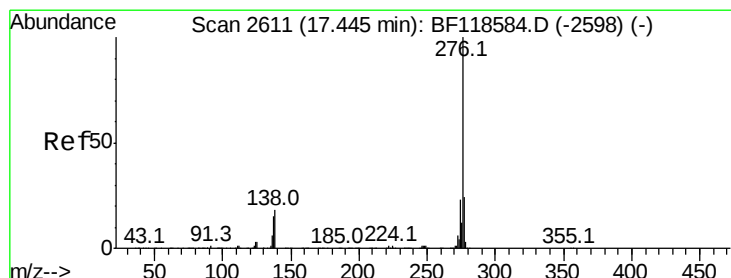
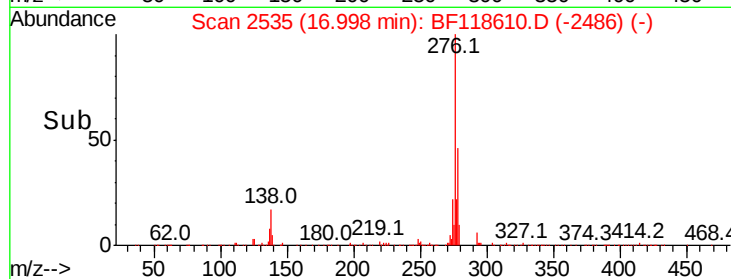
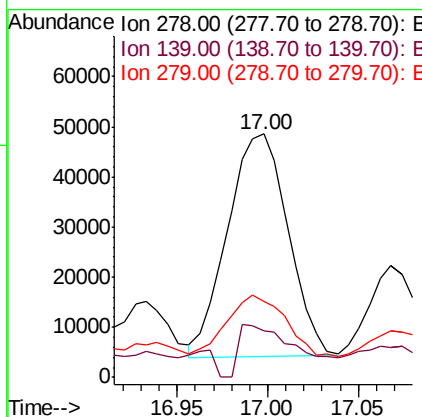
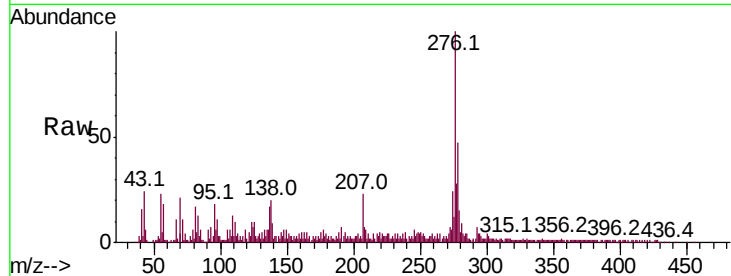




#91
Dibenzo(a,h)anthracene
Concen: 2.292 ng
RT: 17.00 min Scan# 2535
Delta R.T. -0.01 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.3	11.4	17.0#
279	31.3	19.0	28.6#



#92
Benzo(g,h,i)perylene
Concen: 8.444 ng
RT: 17.43 min Scan# 2608
Delta R.T. -0.02 min
Lab File: BF118610.D
Acq: 21 Jan 2020 00:07

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.9	28.3
138	19.4	14.4	21.6

