

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120919\
 Data File : BF118152.D
 Acq On : 9 Dec 2019 18:53
 Operator : JU
 Sample : IK6162-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 10 00:55:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	102705	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	396830	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	198207	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	332217	20.00	ng	0.00
76) Chrysene-d12	14.06	240	208728	20.00	ng	-0.01
87) Perylene-d12	15.55	264	268800	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	567070	96.70	ng	0.00
7) Phenol-d6	6.50	99	706024	99.54	ng	0.00
23) Nitrobenzene-d5	7.43	82	433801	61.50	ng	-0.01
42) 2,4,6-Tribromophenol	10.70	330	212073	88.08	ng	-0.01
45) 2-Fluorobiphenyl	9.23	172	850040	65.26	ng	0.00
79) Terphenyl-d14	13.00	244	726853	59.88	ng	0.00

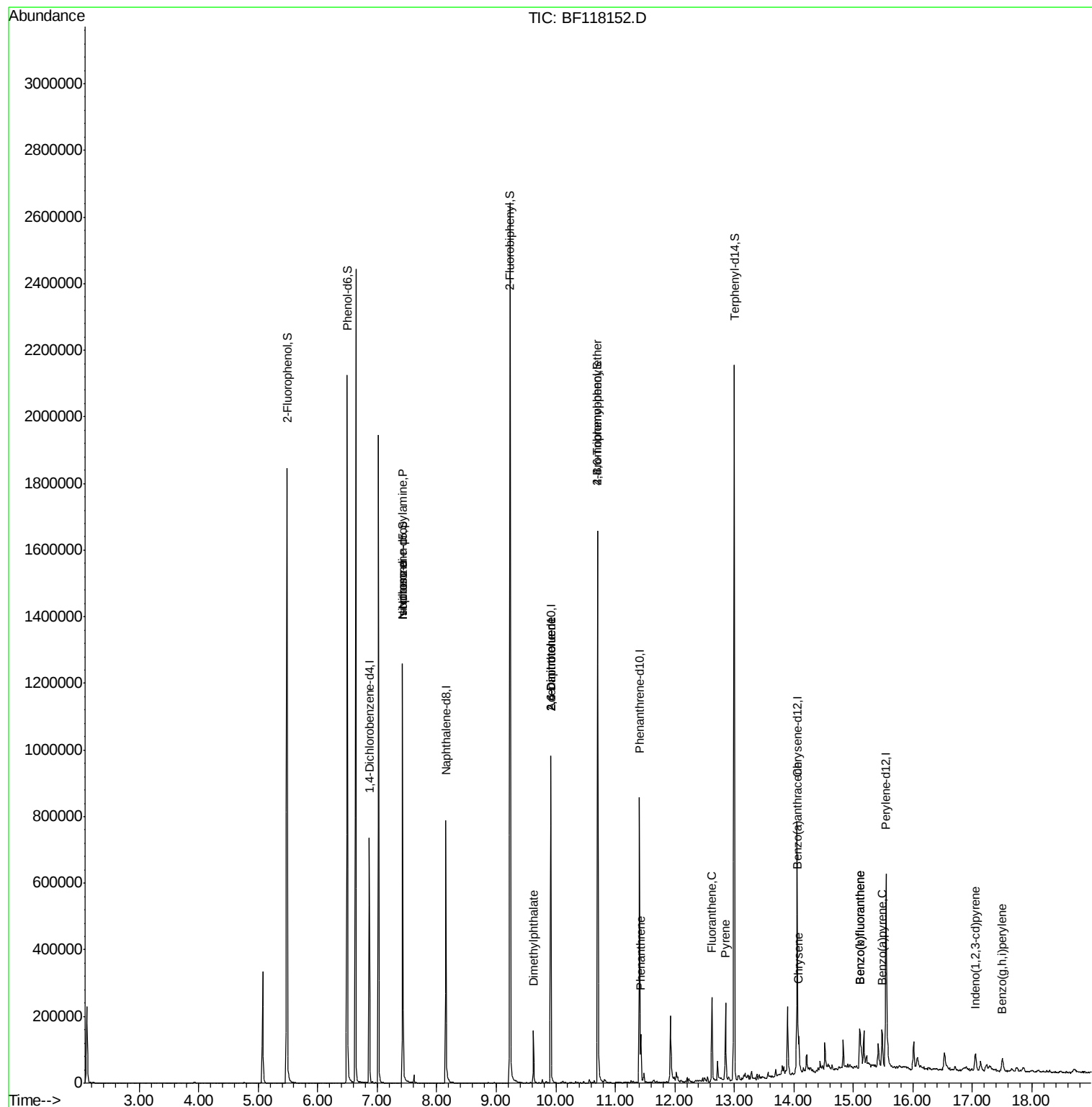
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.50	77	1293	Below Cal		# 1
19) n-Nitroso-di-n-propylamine	7.43	70	58043	13.467	ng	# 79
25) Isophorone	7.43	82	433798	36.278	ng	# 62
50) Dimethylphthalate	9.63	163	70983	4.848	ng	100
51) 2,6-Dinitrotoluene	9.92	165	25761	8.092	ng	# 27
57) 2,4-Dinitrotoluene	9.92	165	25761	6.063	ng	# 25
67) 4-Bromophenyl-phenylether	10.70	248	13076	3.448	ng	# 1
71) Phenanthrene	11.43	178	49984	2.830	ng	99
75) Fluoranthene	12.62	202	105759	5.857	ng	100
78) Pyrene	12.86	202	96707	5.879	ng	99
81) Benzo(a)anthracene	14.04	228	48693	3.374	ng	95
83) Chrysene	14.08	228	46669	3.385	ng	98
86) Indeno(1,2,3-cd)pyrene	17.05	276	33875	2.920	ng	98
88) Benzo(b)fluoranthene	15.11	252	86058	4.841	ng	97
89) Benzo(k)fluoranthene	15.11	252	86058	5.039	ng	97
90) Benzo(a)pyrene	15.48	252	50102	3.191	ng	98
92) Benzo(a,h,i)perylene	17.50	276	33953	2.624	ng	99

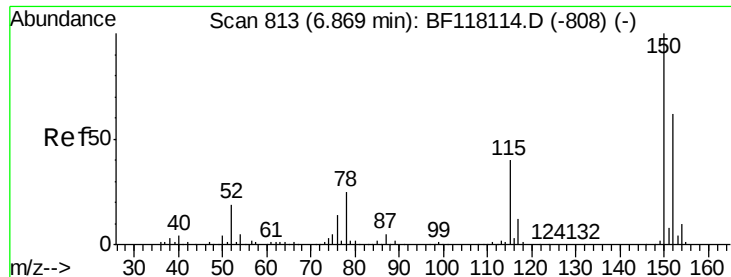
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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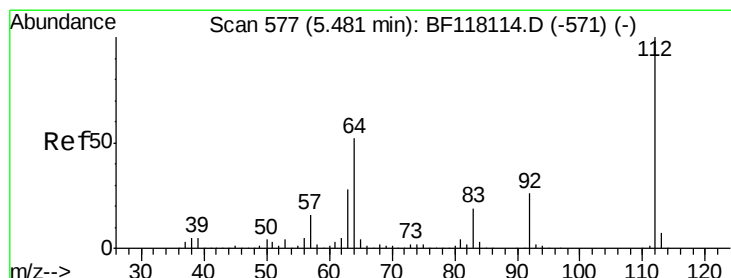
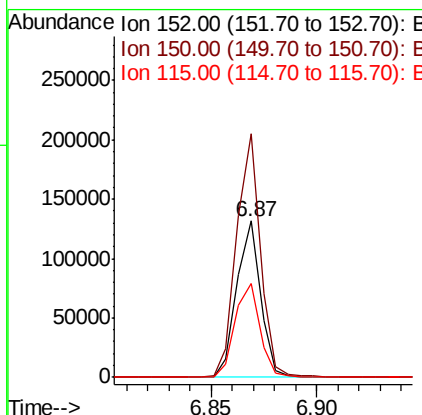
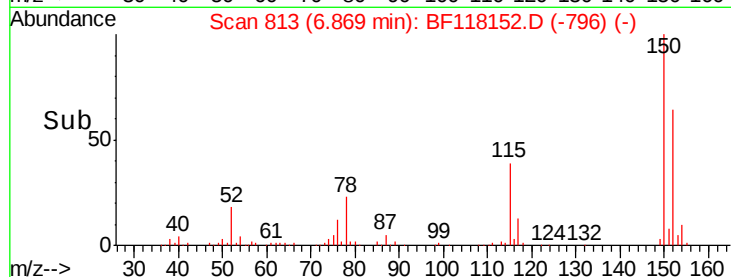
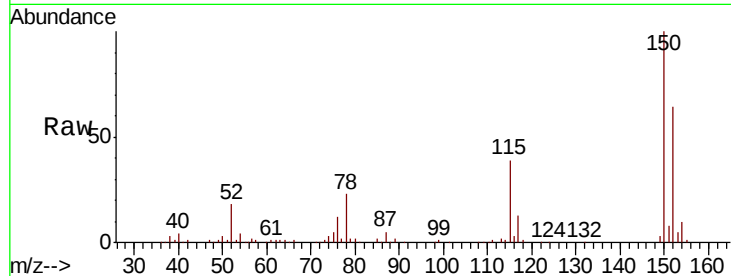


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Instrument :
BNA_F
ClientSampled :

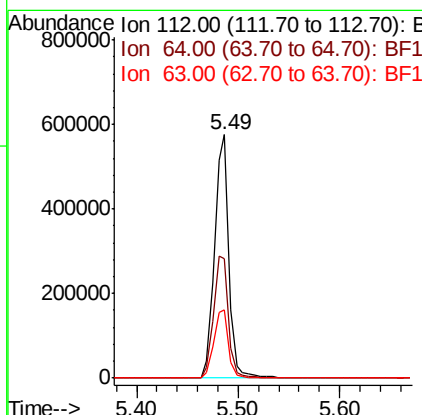
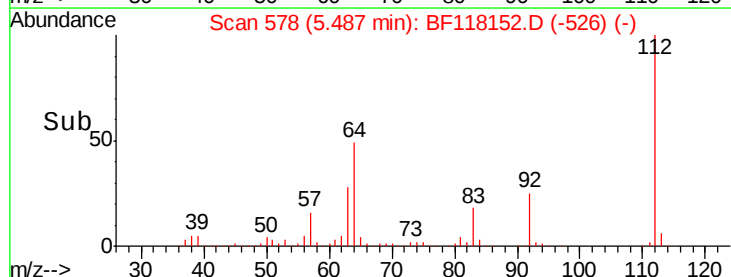
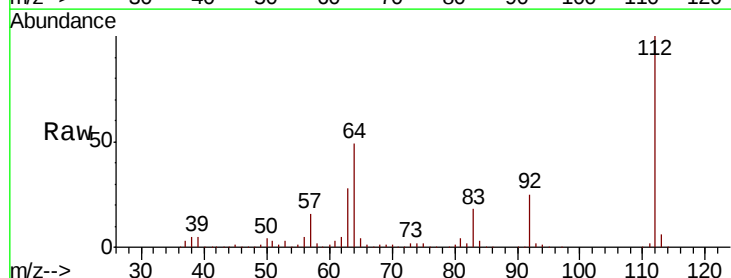
Tot Ion:152 Resp: 102705
Ion Ratio Lower Upper
152 100
150 155.8 128.3 192.5
115 60.1 51.1 76.7

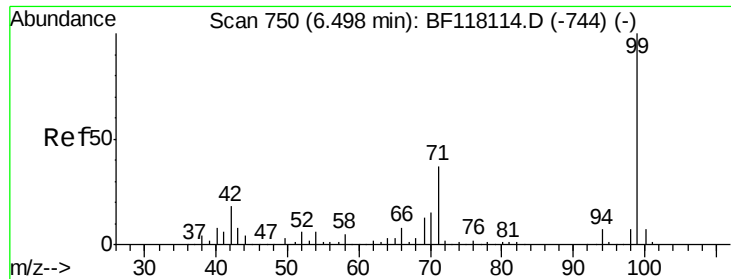


#5

2-Fluorophenol
Concen: 96.704 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Tgt Ion:112 Resp: 567070
Ion Ratio Lower Upper
112 100
64 49.3 41.3 61.9
63 27.9 22.4 33.6





#7

Phenol-d6

Concen: 99.543 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Instrument :

BNA_F

ClientSampleId :

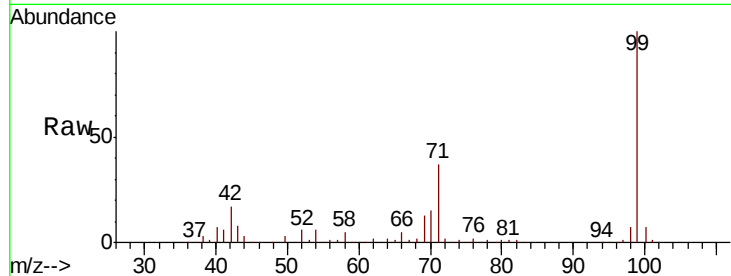
Tot Ion: 99 Resp: 706024

Ion Ratio Lower Upper

99 100

42 17.3 14.1 21.1

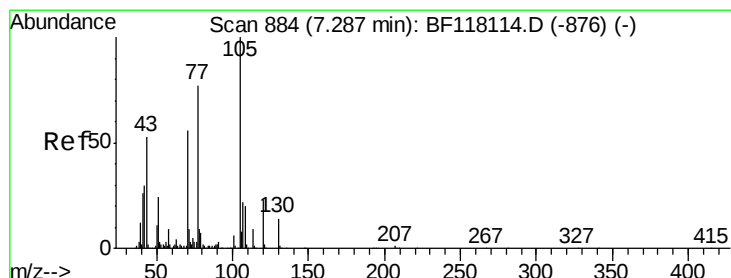
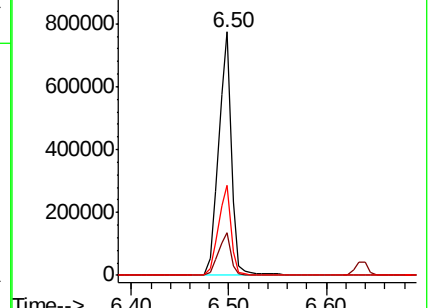
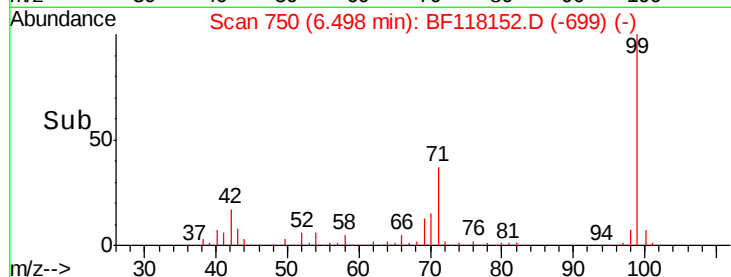
71 37.0 29.7 44.5



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: 13.467 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Tgt Ion: 70 Resp: 58043

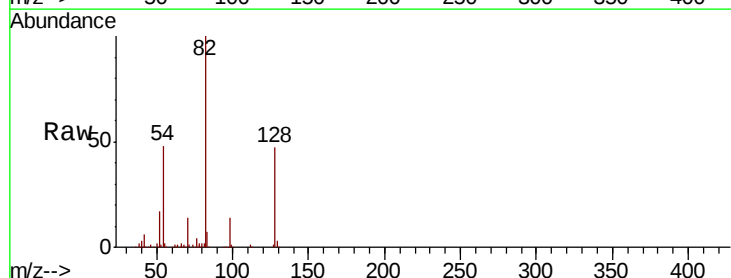
Ion Ratio Lower Upper

70 100

42 47.2 43.2 64.8

101 0.0 8.1 12.1#

130 2.5 19.8 29.8#

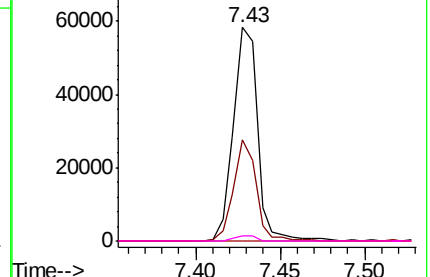
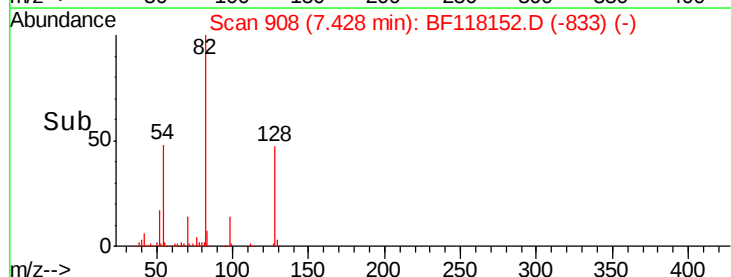


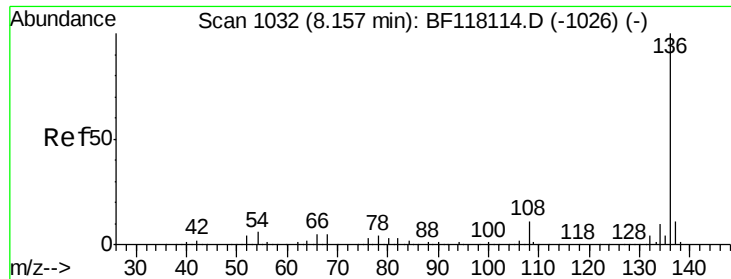
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 396830

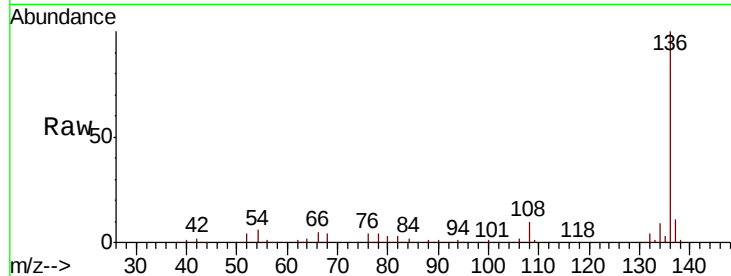
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 6.2 5.0 7.6

68 4.4 3.8 5.8

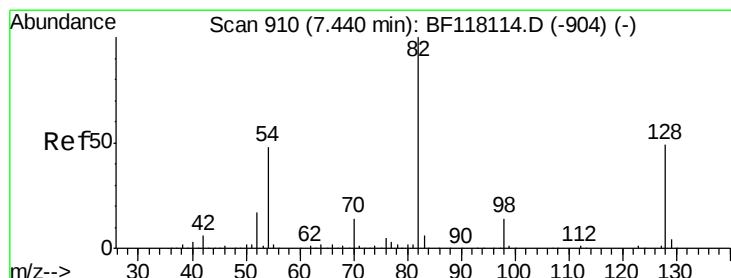
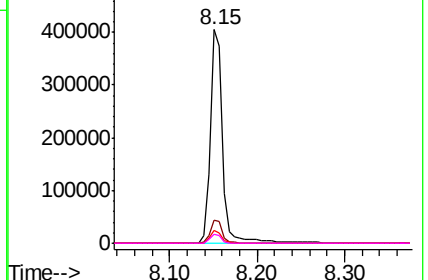
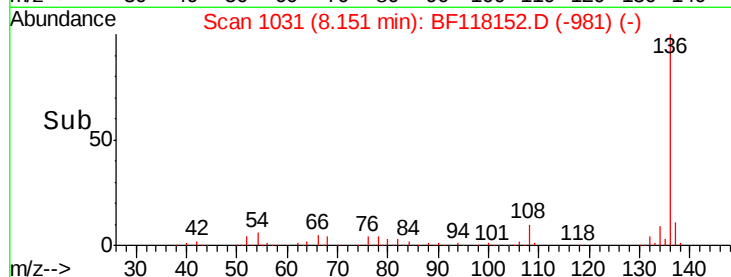


Abundance Ion 136.00 (135.70 to 136.70): E

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: 61.499 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

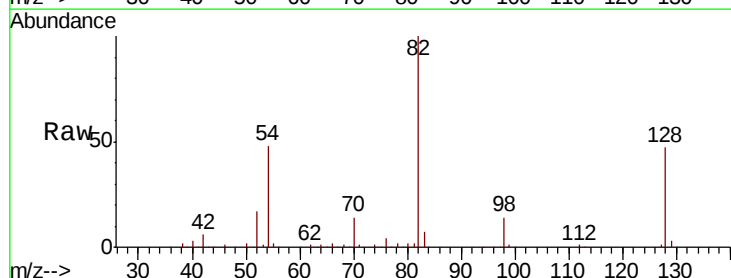
Tgt Ion: 82 Resp: 433801

Ion Ratio Lower Upper

82 100

128 47.1 39.1 58.7

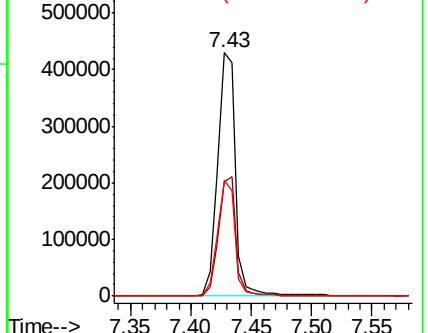
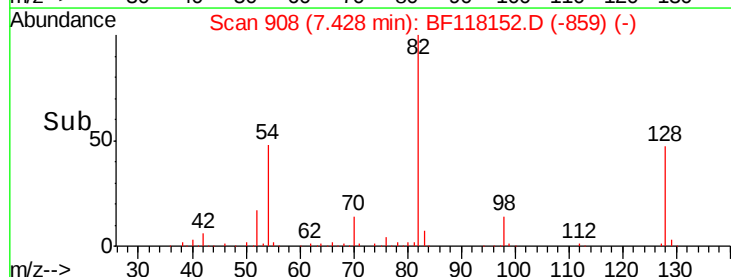
54 47.7 38.2 57.2

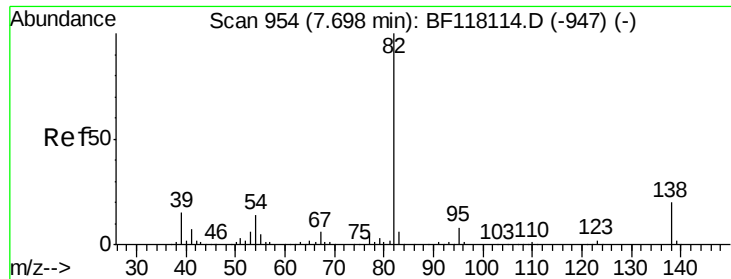


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 36.278 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.27 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Instrument :

BNA_F

ClientSampleId :

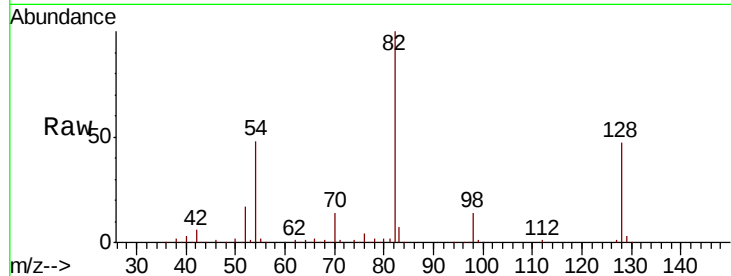
Tot Ion: 82 Resp: 433798

Ion Ratio Lower Upper

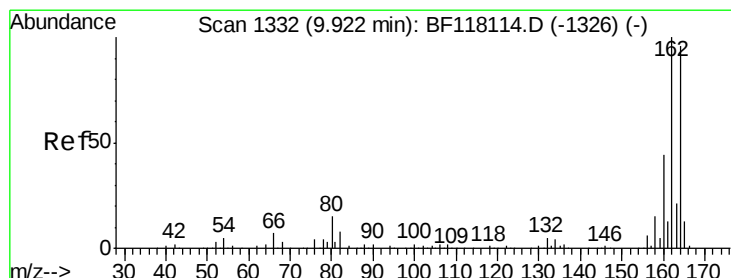
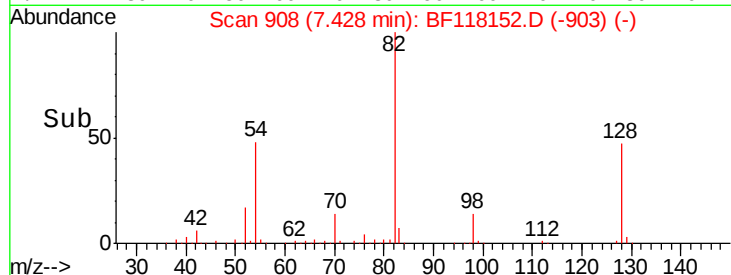
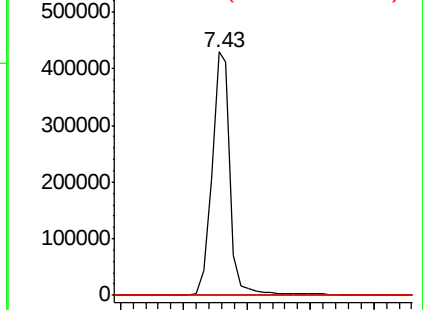
82 100

95 0.0 6.3 9.5#

138 0.0 16.3 24.5#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

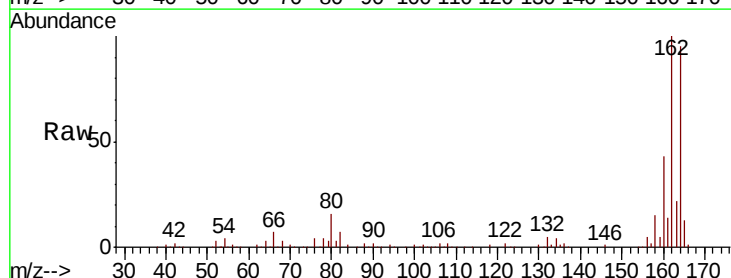
Tgt Ion: 164 Resp: 198207

Ion Ratio Lower Upper

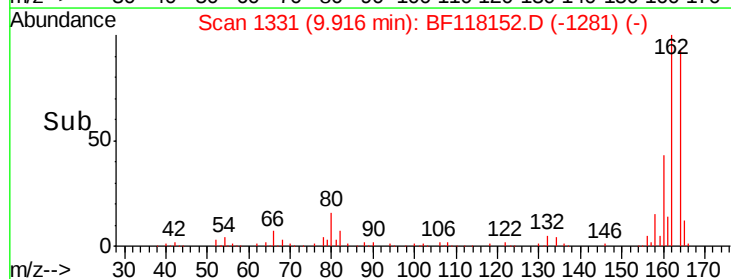
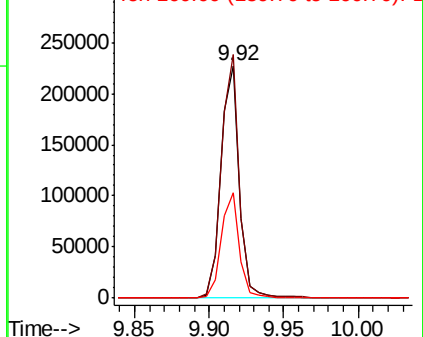
164 100

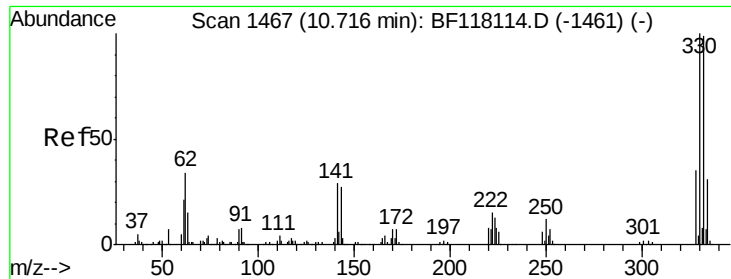
162 104.8 83.4 125.0

160 45.1 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

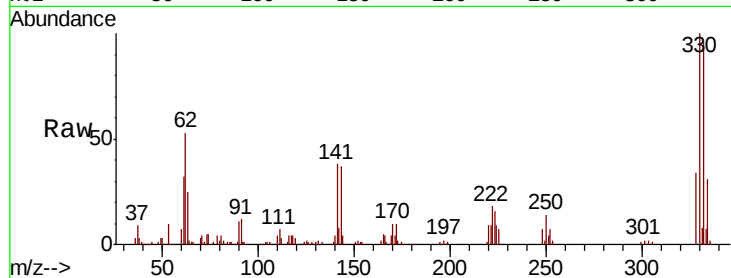




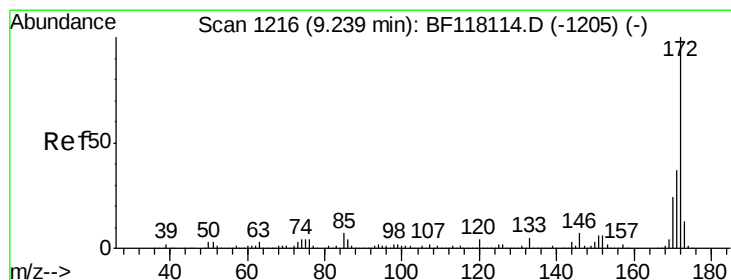
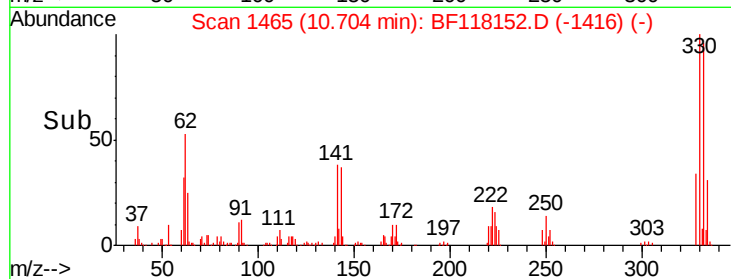
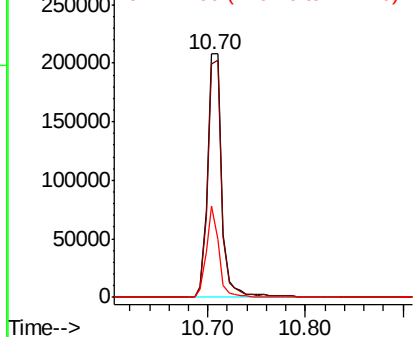
#42
 2,4,6-Tribromophenol
 Concen: 88.076 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 212073
 Ion Ratio Lower Upper
 330 100
 332 95.4 78.1 117.1
 141 33.1 26.9 40.3

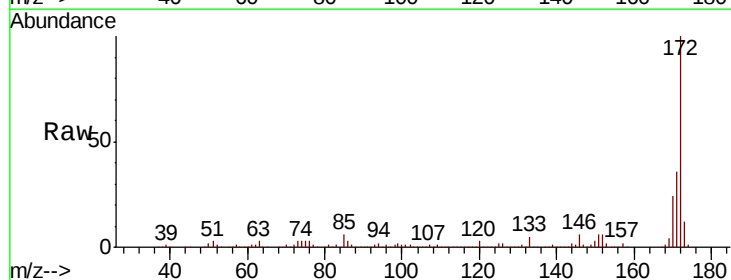


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

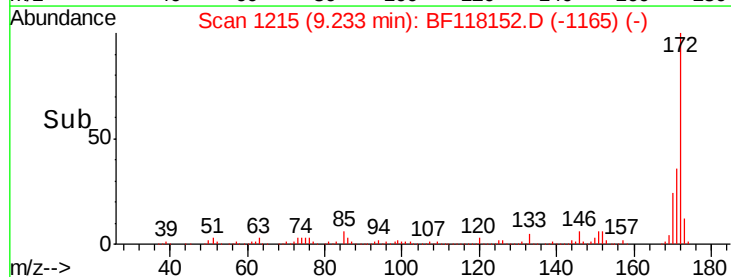
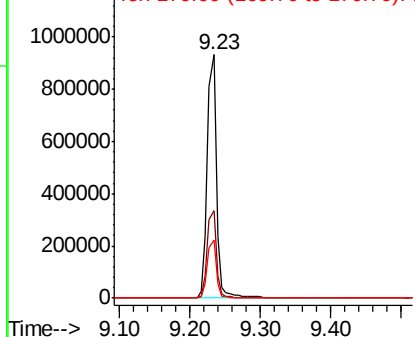


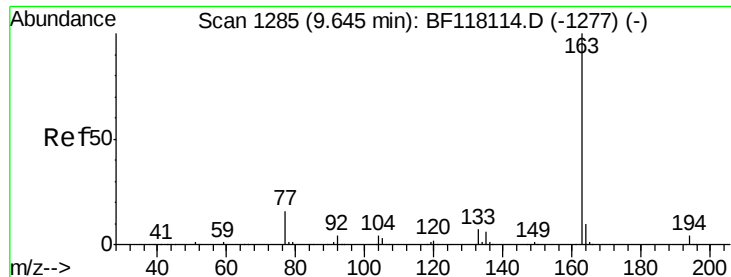
#45
 2-Fluorobiphenyl
 Concen: 65.258 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Tgt Ion:172 Resp: 850040
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.2 43.8
 170 23.7 19.4 29.2



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

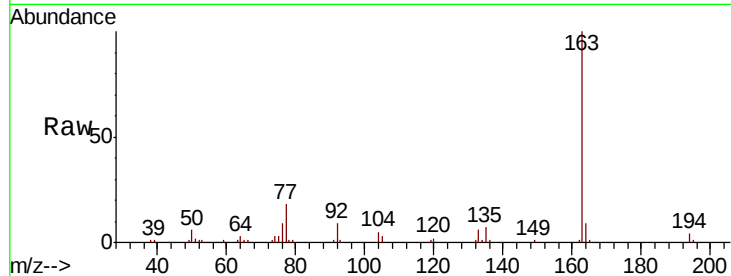




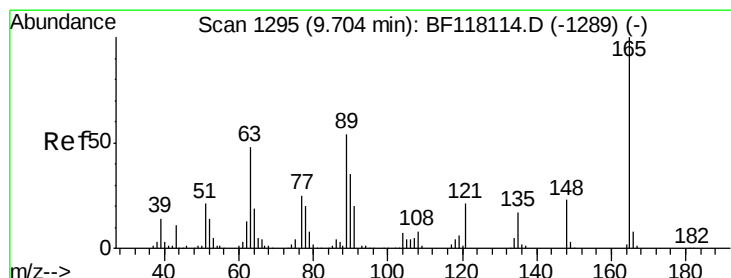
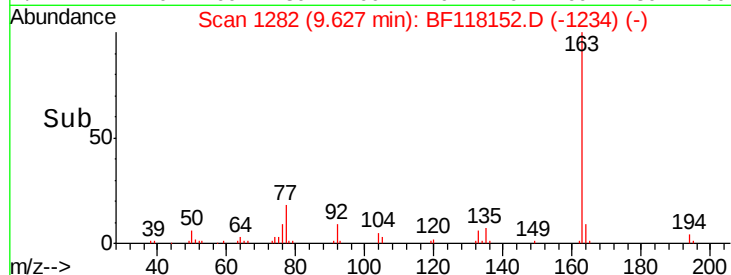
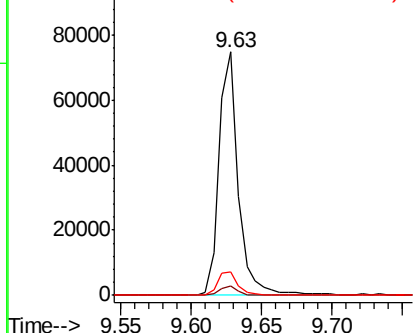
#50
Dimethylphthalate
Concen: 4.848 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 70983
Ion Ratio Lower Upper
163 100
194 3.7 3.1 4.7
164 9.5 7.7 11.5

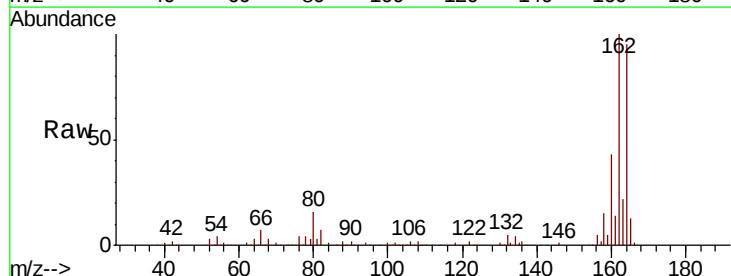


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

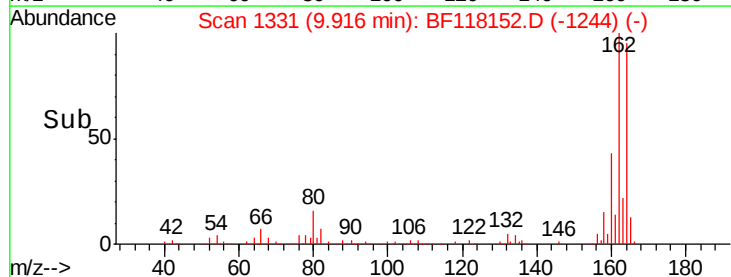
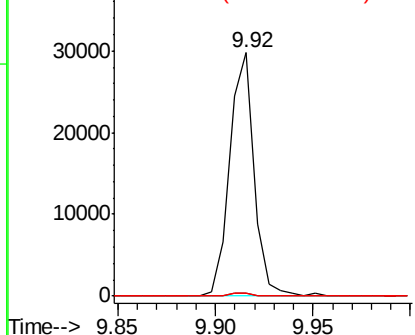


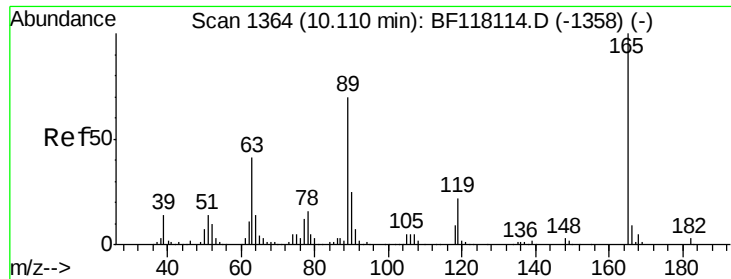
#51
2,6-Dinitrotoluene
Concen: 8.092 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.21 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Tgt Ion:165 Resp: 25761
Ion Ratio Lower Upper
165 100
63 1.2 41.4 62.0#
89 1.5 42.9 64.3#



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

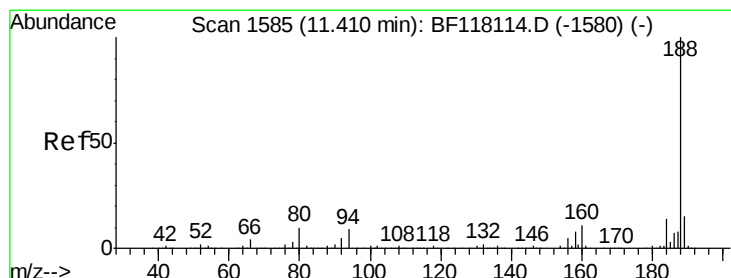
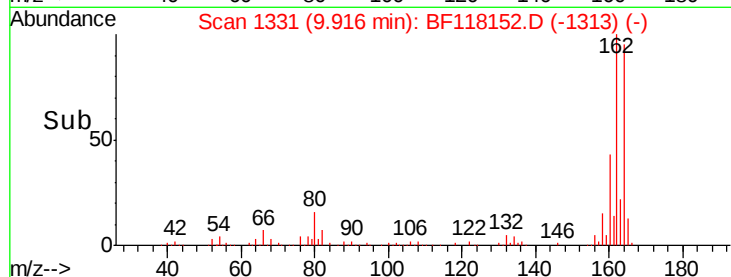
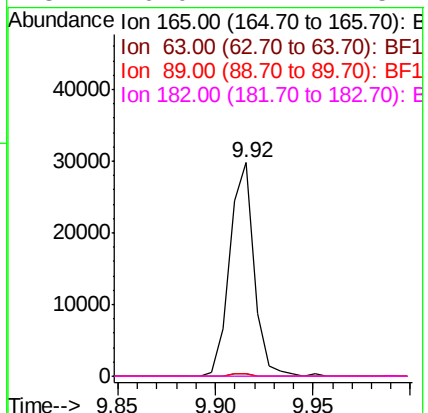
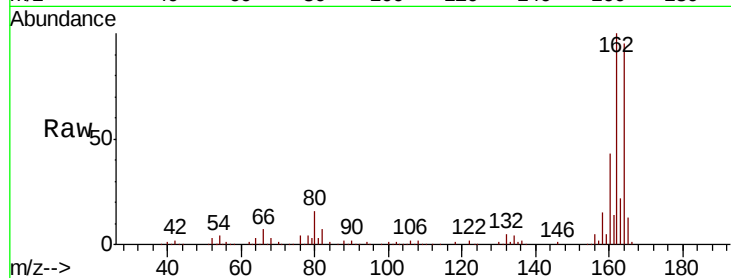




#57
 2,4-Dinitrotoluene
 Concen: 6.063 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.19 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

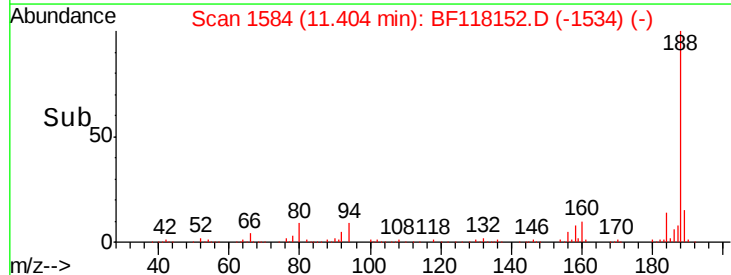
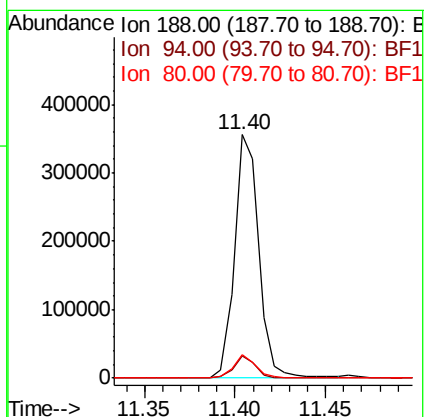
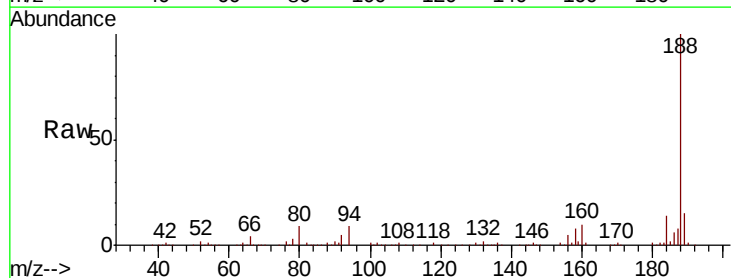
Instrument :
 BNA_F
 ClientSampleId :

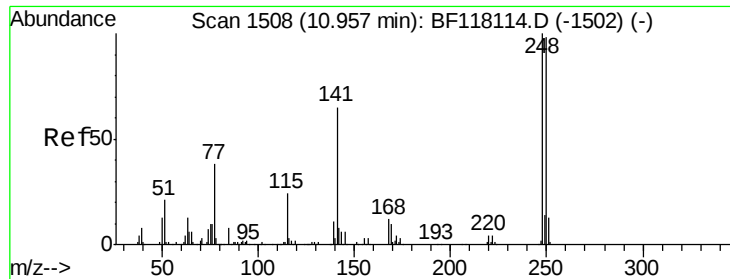
Tot Ion:165	Resp:	25761
Ion Ratio	Lower	Upper
165	100	
63	1.2	32.6 49.0#
89	1.5	56.1 84.1#
182	0.0	2.1 3.1#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Tgt Ion:188	Resp:	332217
Ion Ratio	Lower	Upper
188	100	
94	8.9	7.1 10.7
80	9.4	7.9 11.9

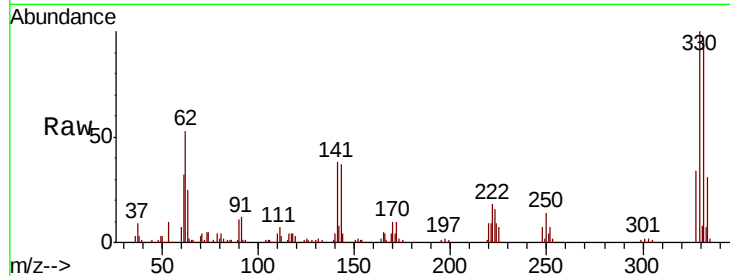




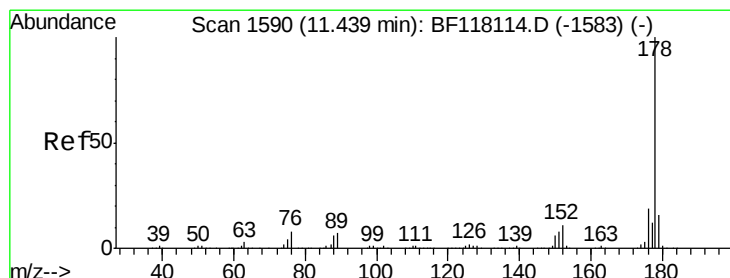
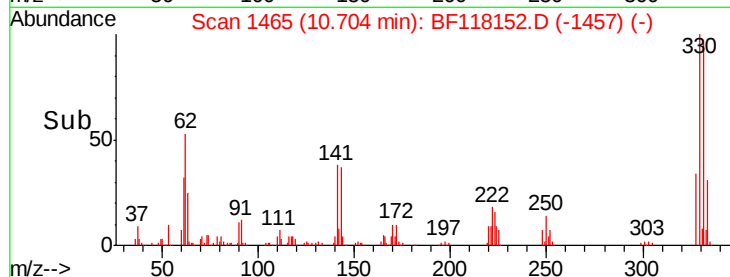
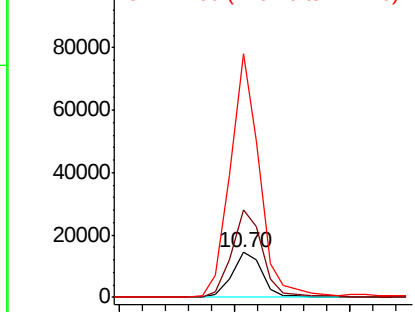
#67
 4-Bromophenyl-phenylether
 Concen: 3.448 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.25 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 13076
 Ion Ratio Lower Upper
 248 100
 250 197.3 78.3 117.5#
 141 545.3 52.2 78.4#

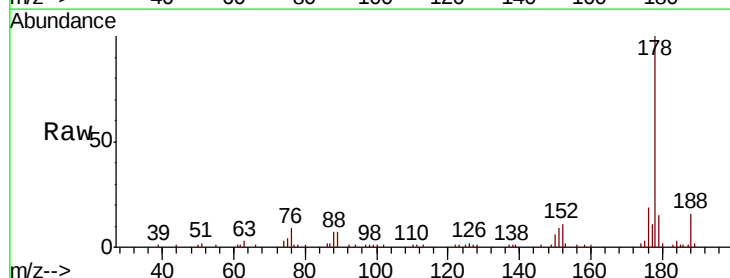


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

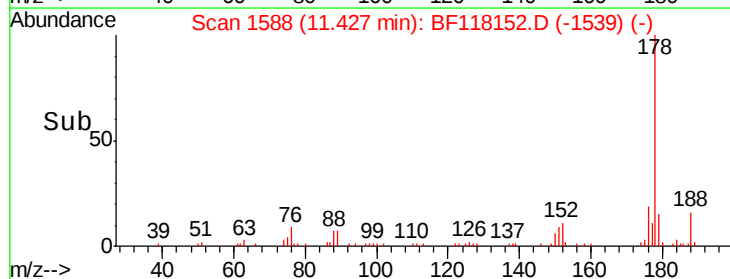
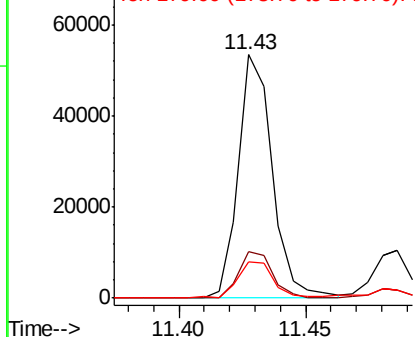


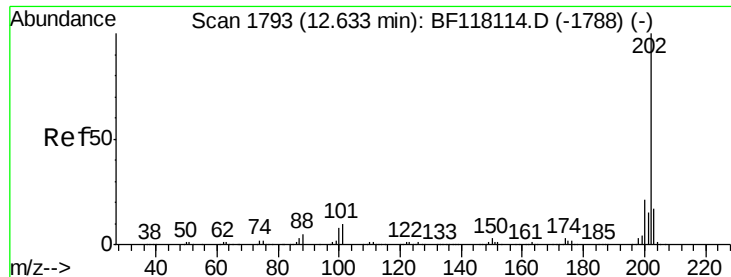
#71
 Phenanthrene
 Concen: 2.830 ng
 RT: 11.43 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Tgt Ion:178 Resp: 49984
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.5 23.3
 179 15.1 12.6 18.8



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





#75

Fluoranthene

Concen: 5.857 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Instrument :

BNA_F

ClientSampled :

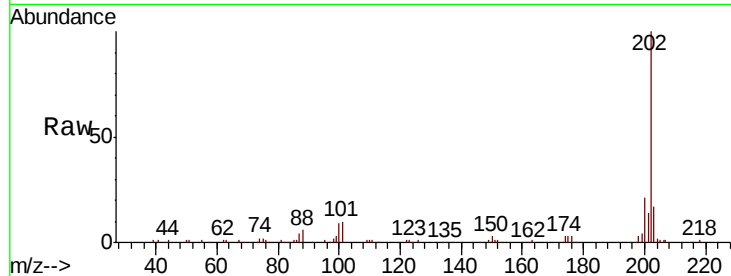
Tot Ion:202 Resp: 105759

Ion Ratio Lower Upper

202 100

101 10.3 0.0 30.4

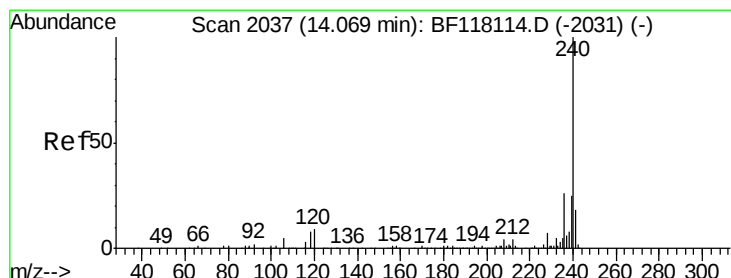
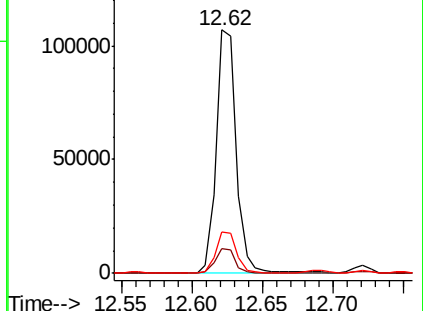
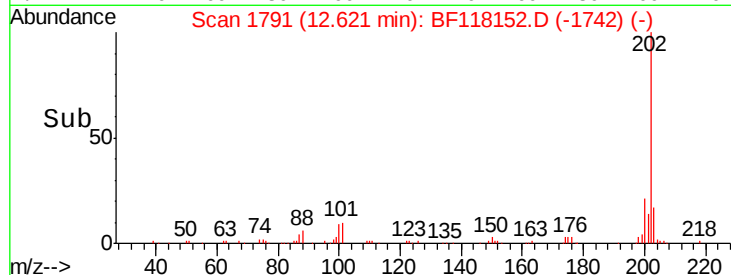
203 17.2 0.0 37.2



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: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

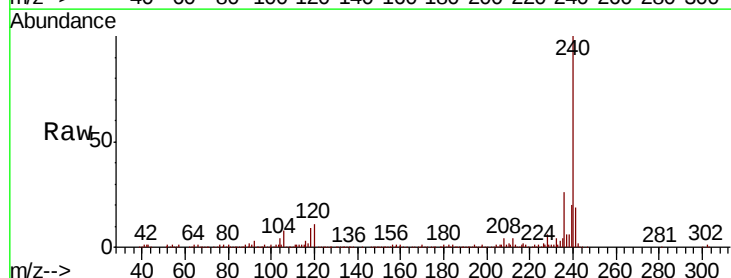
Tgt Ion:240 Resp: 208728

Ion Ratio Lower Upper

240 100

120 10.6 7.1 10.7

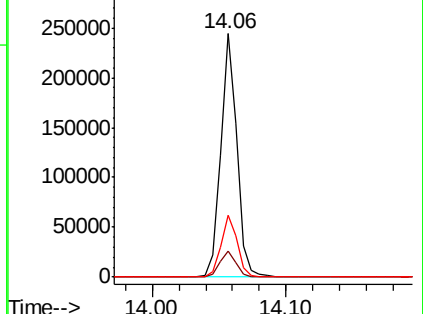
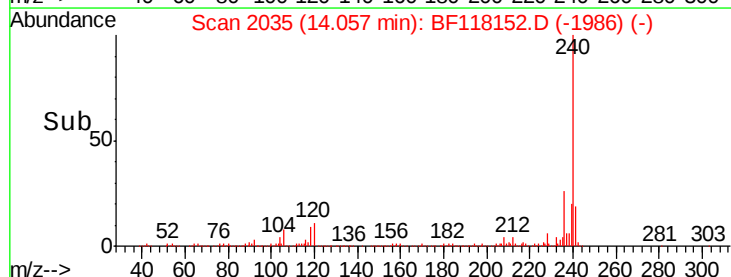
236 25.7 21.0 31.6

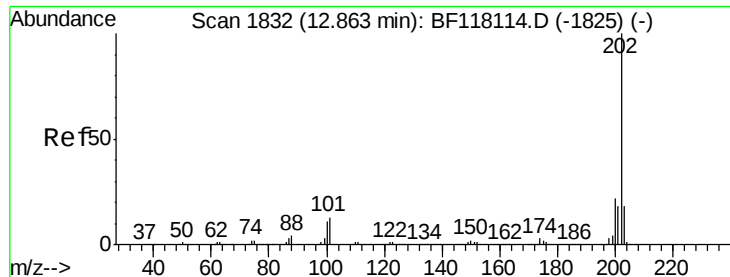


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

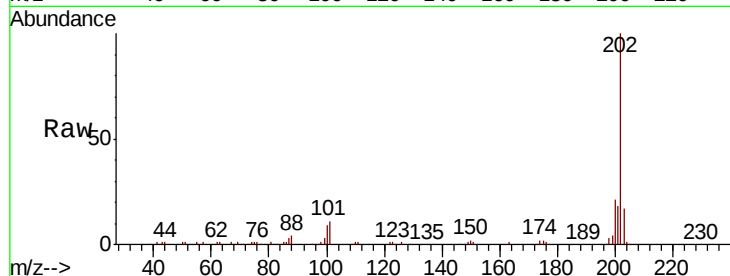




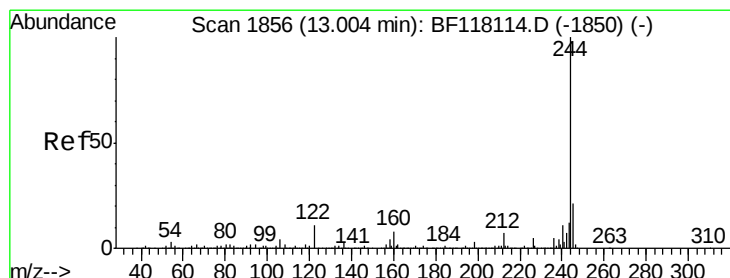
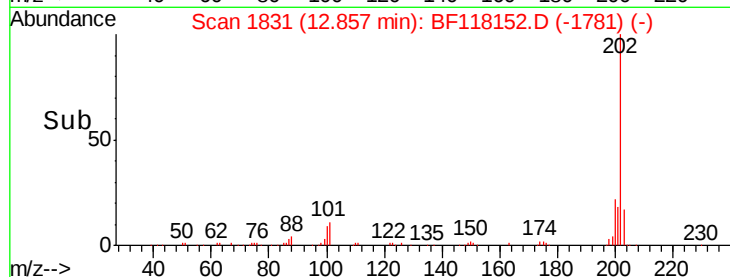
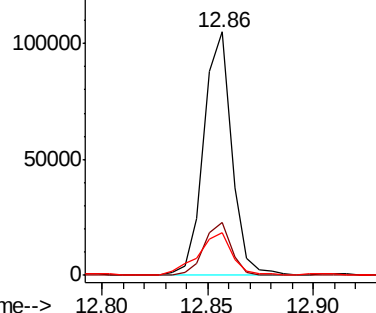
#78
Pvrene
Concen: 5.879 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.5	26.3
203	17.4	14.6	21.8

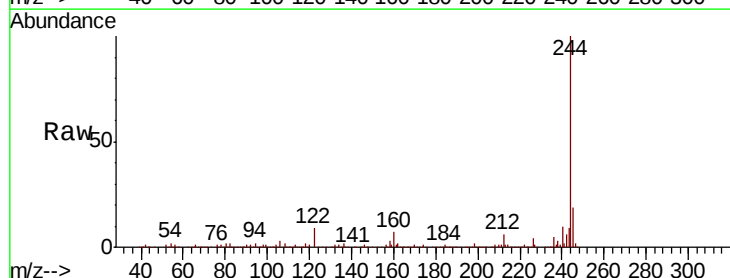


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

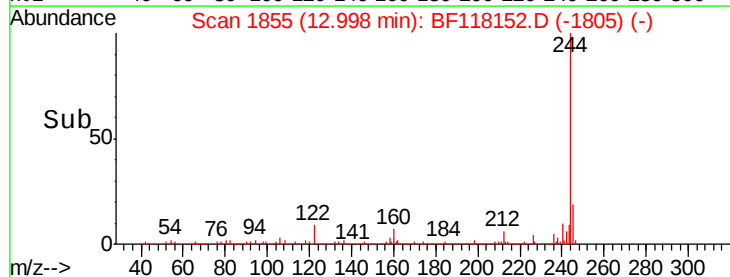
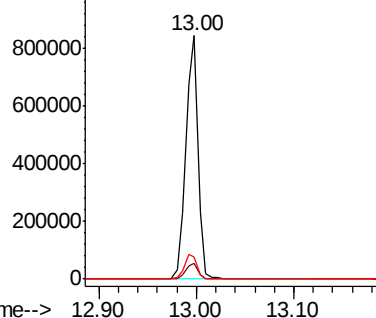


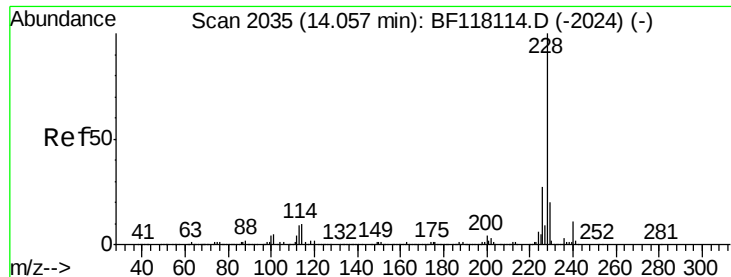
#79
Terphenyl-d14
Concen: 59.883 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.9	8.9
122	9.3	9.0	13.6



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

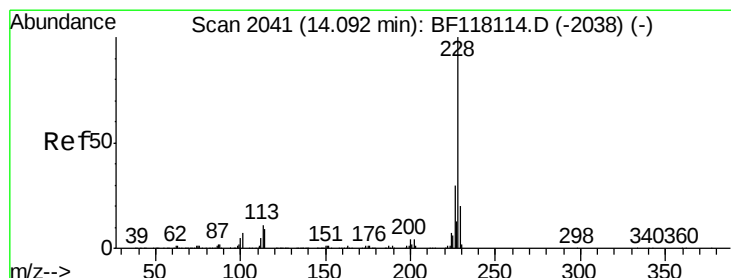
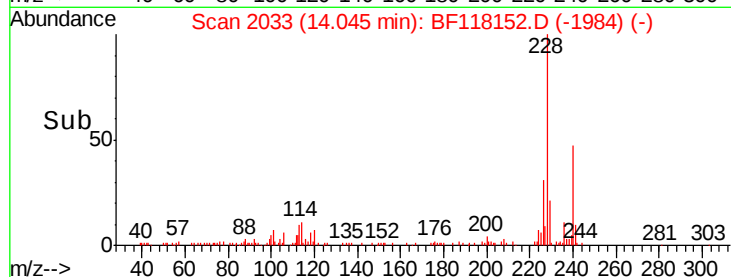
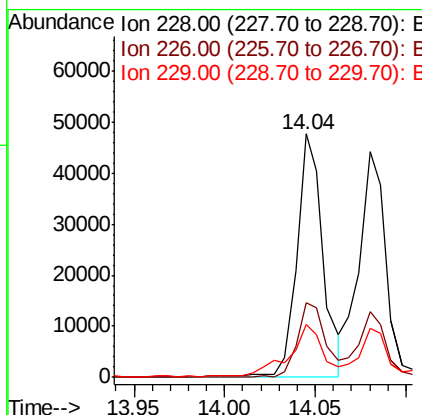
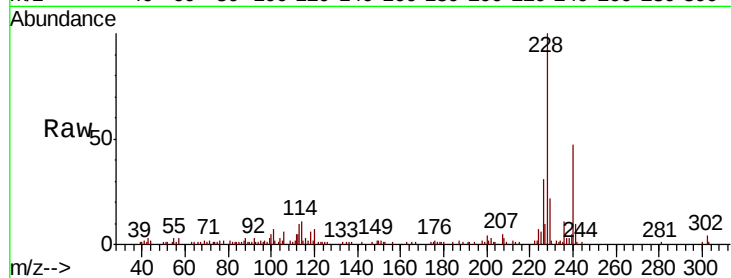




#81
Benzo(a)anthracene
Concen: 3.374 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

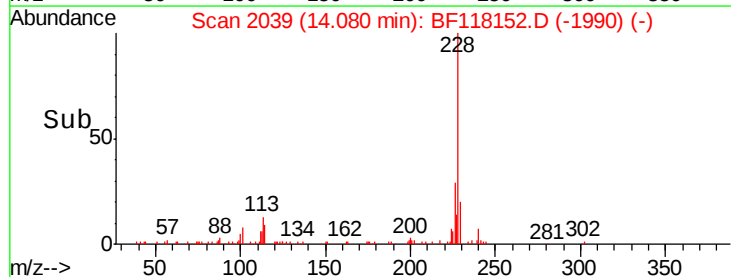
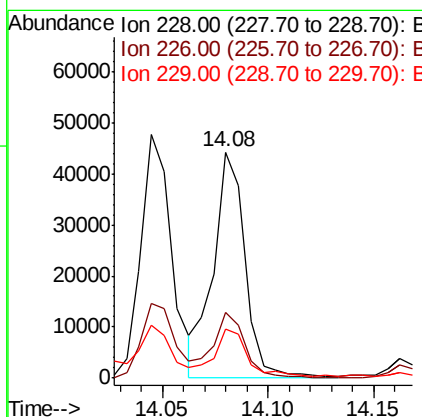
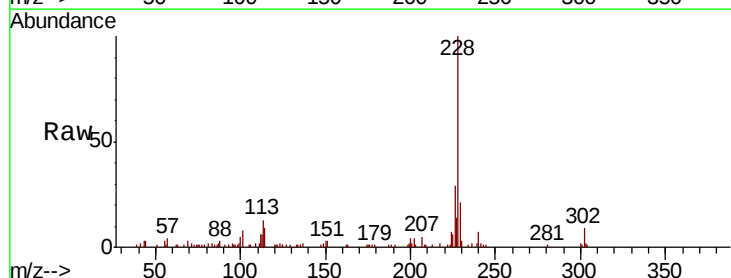
Instrument :
BNA_F
ClientSampleId :

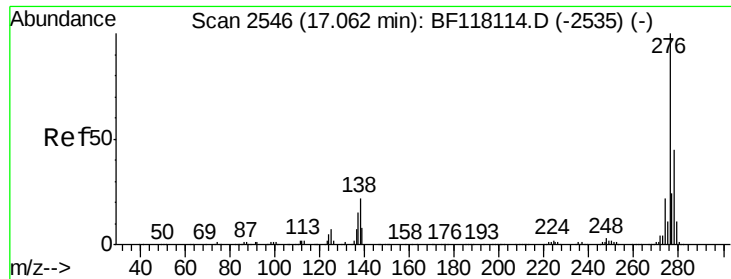
Tot Ion:228 Resp: 48693
Ion Ratio Lower Upper
228 100
226 30.6 21.8 32.8
229 21.6 15.8 23.8



#83
Chrysene
Concen: 3.385 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Tgt Ion:228 Resp: 46669
Ion Ratio Lower Upper
228 100
226 29.3 23.8 35.8
229 21.5 15.7 23.5

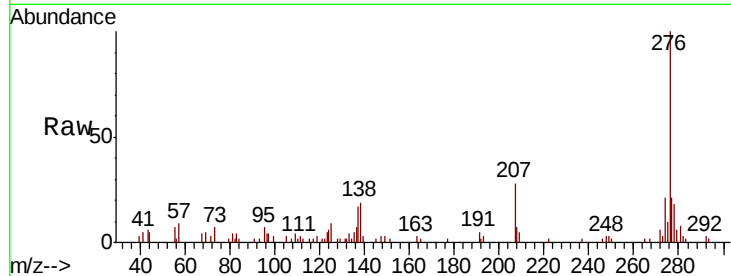




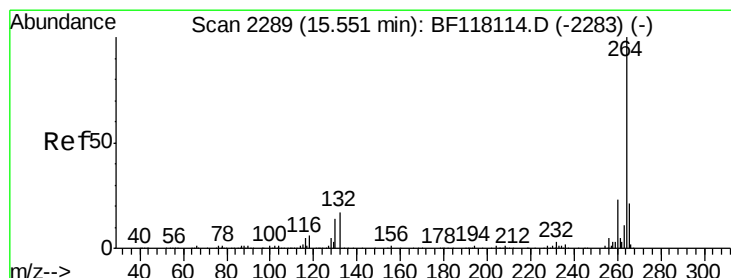
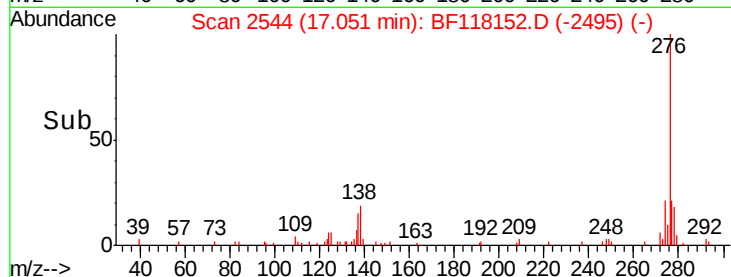
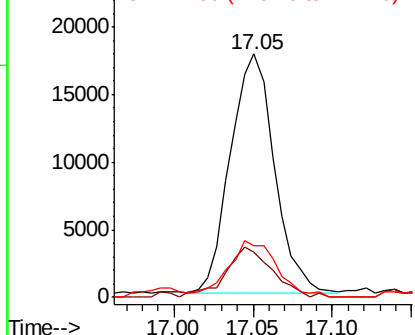
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.920 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. -0.01 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Instrument :
 BNA_F
 ClientSampleId :

Tot	Ion:276	Resp:	33875
Ion	Ratio	Lower	Upper
276	100		
138	22.5	18.9	28.3
277	26.6	20.4	30.6

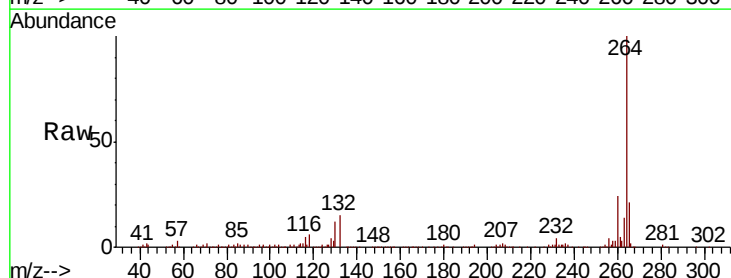


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

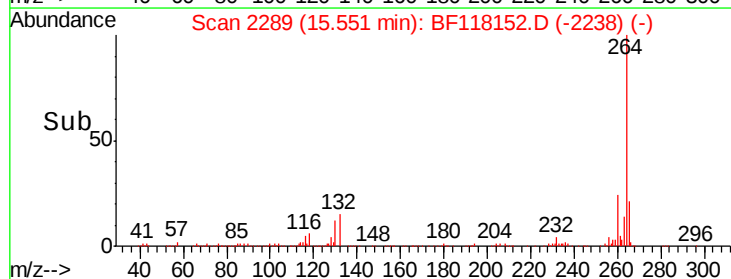
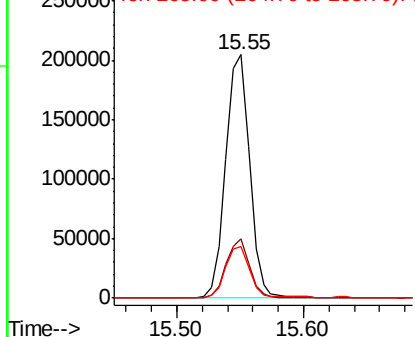


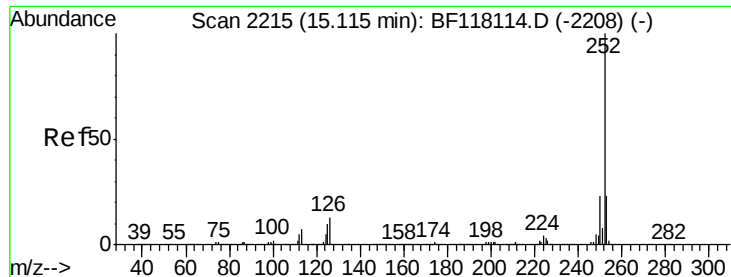
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.55 min Scan# 2289
 Delta R.T. -0.00 min
 Lab File: BF118152.D
 Acq: 9 Dec 2019 18:53

Tgt Ion	264	Resp: Lower	268800 Upper
	Ratio		
264	100		
260	24.5	18.6	28.0
265	21.4	16.8	25.2



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

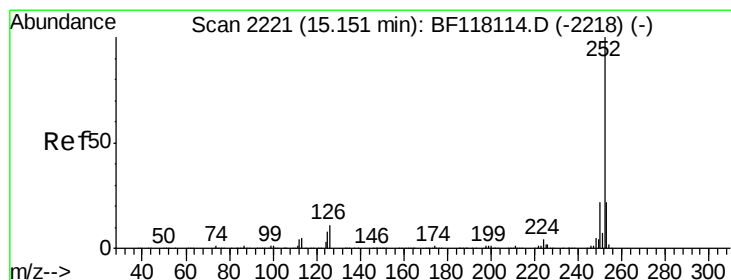
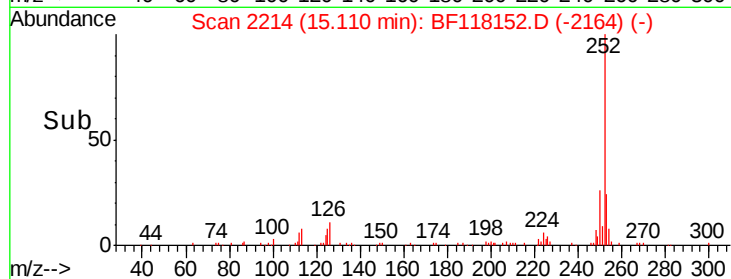
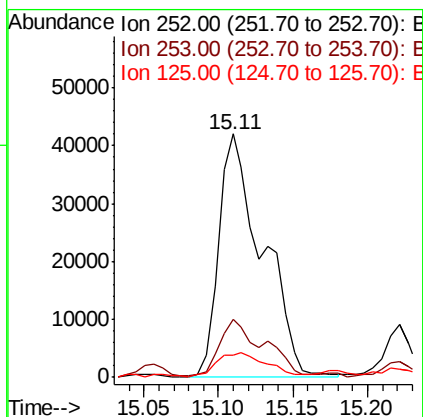
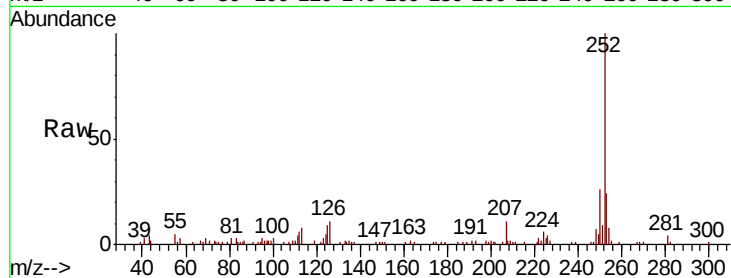




#88
Benzo(b)fluoranthene
Concen: 4.841 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

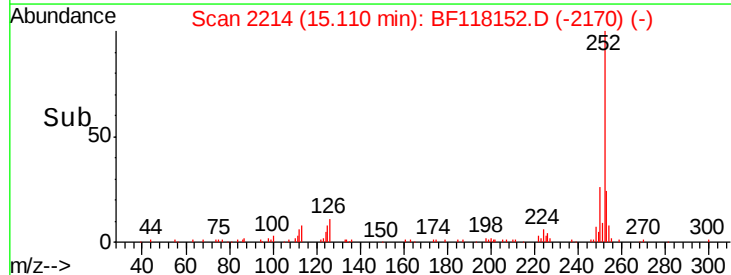
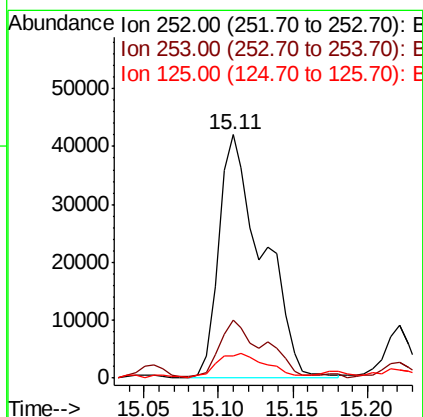
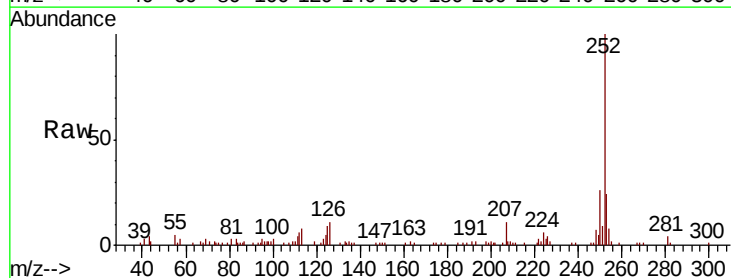
Instrument :
BNA_F
ClientSampleId :

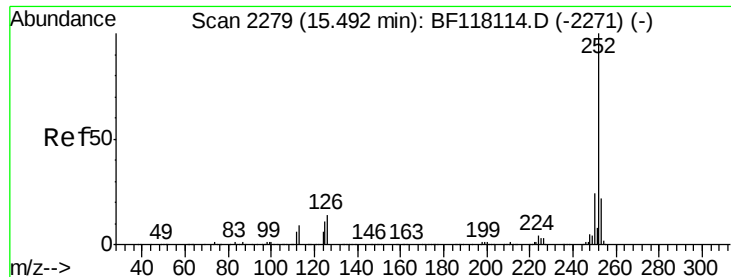
Tot Ion:252 Resp: 86058
Ion Ratio Lower Upper
252 100
253 23.9 18.2 27.4
125 8.9 8.3 12.5



#89
Benzo(k)fluoranthene
Concen: 5.039 ng
RT: 15.11 min Scan# 2214
Delta R.T. -0.04 min
Lab File: BF118152.D
Acq: 9 Dec 2019 18:53

Tgt Ion:252 Resp: 86058
Ion Ratio Lower Upper
252 100
253 23.9 17.6 26.4
125 8.9 6.7 10.1





#90

Benzo(a)pyrene

Concen: 3.191 ng

RT: 15.48 min Scan# 2277

Delta R.T. -0.01 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

Instrument :

BNA_F

ClientSampleId :

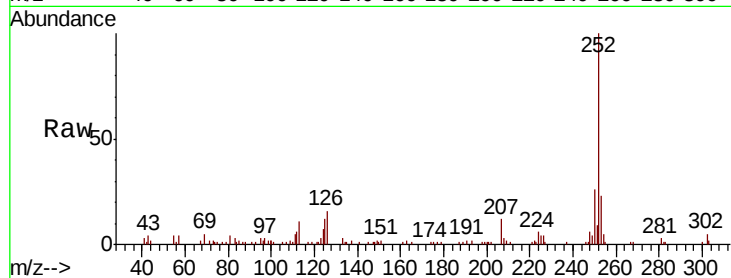
Tot Ion:252 Resp: 50102

Ion Ratio Lower Upper

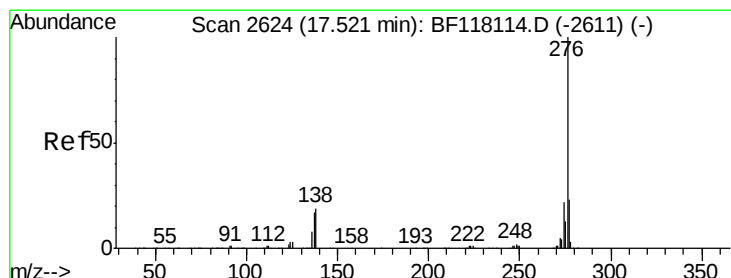
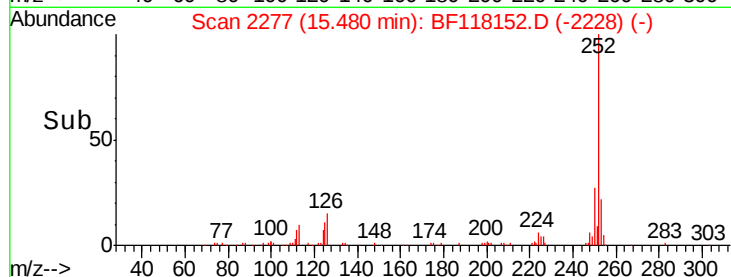
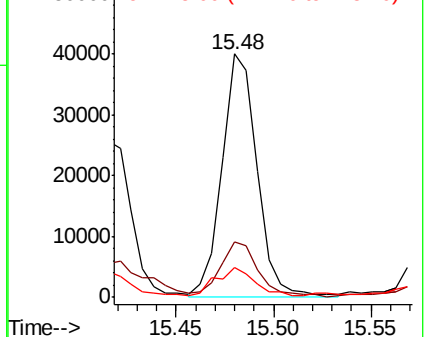
252 100

253 22.5 17.5 26.3

125 12.2 9.1 13.7



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



#92

Benzo(g,h,i)perylene

Concen: 2.624 ng

RT: 17.50 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF118152.D

Acq: 9 Dec 2019 18:53

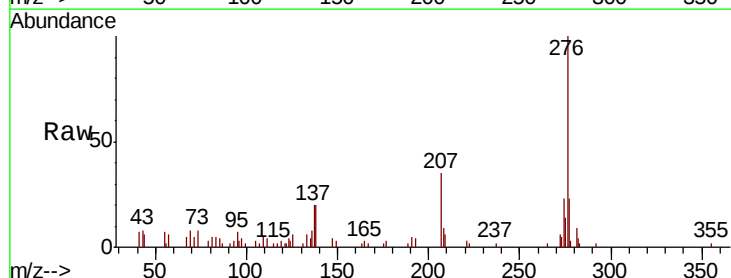
Tgt Ion:276 Resp: 33953

Ion Ratio Lower Upper

276 100

277 23.3 18.2 27.4

138 19.9 15.5 23.3



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

