

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121019\
 Data File : BF118162.D
 Acq On : 10 Dec 2019 12:49
 Operator : JU
 Sample : K6119-05RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 10 13:31:15 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	88773	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	345483	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	180541	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	340867	20.00	ng	0.00
76) Chrysene-d12	14.06	240	222685	20.00	ng	0.00
87) Perylene-d12	15.56	264	257347	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	547170	107.95	ng	0.00
7) Phenol-d6	6.50	99	690999	112.71	ng	0.00
23) Nitrobenzene-d5	7.43	82	409967	66.76	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	223624	101.96	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	831119	70.05	ng	0.00
79) Terphenyl-d14	13.00	244	946343	73.08	ng	0.00

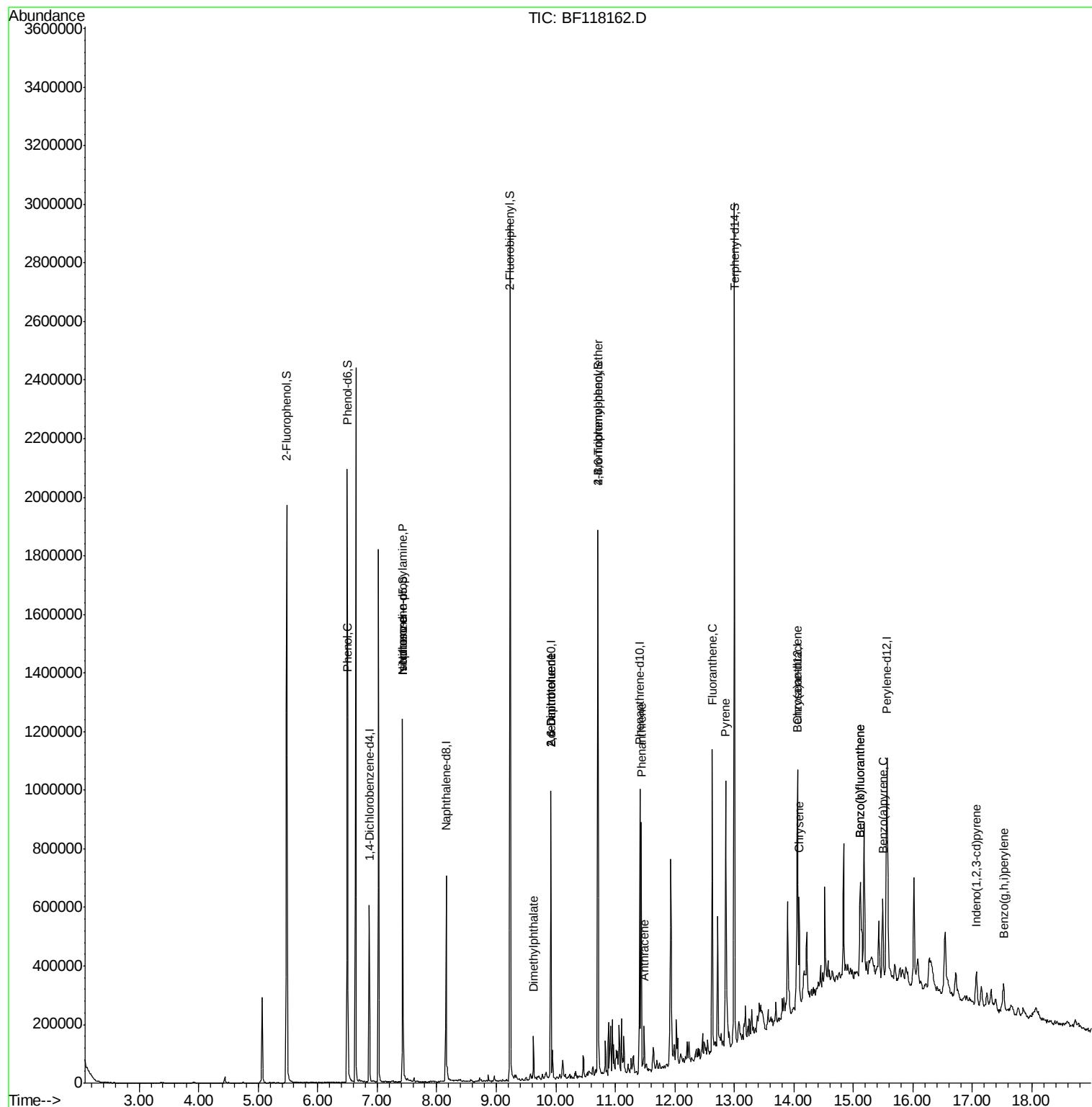
Target Compounds				Qvalue		
9) Benzaldehyde	6.50	77	1434	Below Cal	#	1
10) Phenol	6.51	94	40522	5.796	ng	96
19) n-Nitroso-di-n-propylamine	7.43	70	55848	14.992	ng	# 79
25) Isophorone	7.43	82	400498	38.471	ng	# 62
50) Dimethylphthalate	9.63	163	58566	4.392	ng	98
51) 2,6-Dinitrotoluene	9.92	165	24030	8.287	ng	# 28
57) 2,4-Dinitrotoluene	9.92	165	24030	6.209	ng	# 26
67) 4-Bromophenyl-phenylether	10.71	248	13779	3.541	ng	# 1
71) Phenanthrene	11.43	178	277064	15.290	ng	100
72) Anthracene	11.49	178	60250	3.333	ng	98
75) Fluoranthene	12.63	202	361219	19.498	ng	99
78) Pyrene	12.86	202	352651	20.096	ng	98
81) Benzo(a)anthracene	14.05	228	157265	10.213	ng	97
83) Chrysene	14.09	228	135847	9.236	ng	97
86) Indeno(1,2,3-cd)pyrene	17.06	276	76021	6.143	ng	96
88) Benzo(b)fluoranthene	15.12	252	218904	12.862	ng	96
89) Benzo(k)fluoranthene	15.12	252	218904	13.388	ng	# 93
90) Benzo(a)pyrene	15.49	252	125631	8.358	ng	96
92) Benzo(a,h,i)perylene	17.52	276	72889	5.883	ng	93

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

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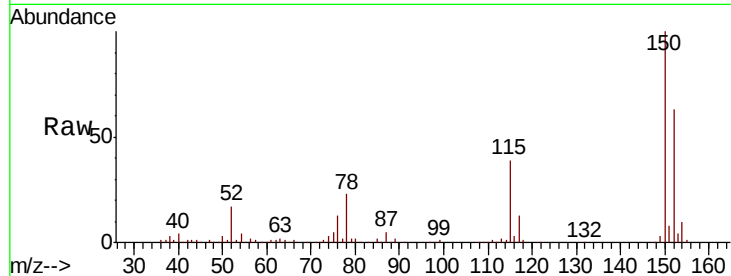


#1

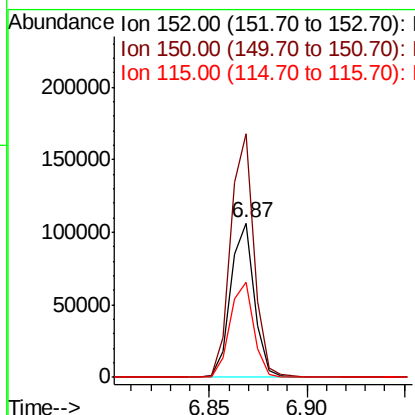
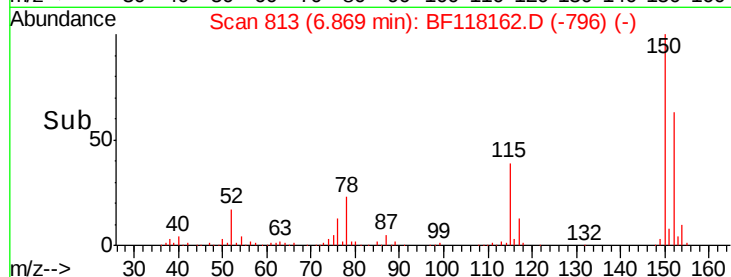
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 88773
Ion Ratio Lower Upper
152 100
150 158.1 128.3 192.5
115 61.5 51.1 76.7



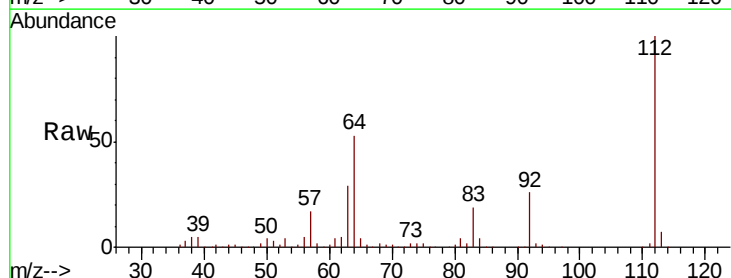
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



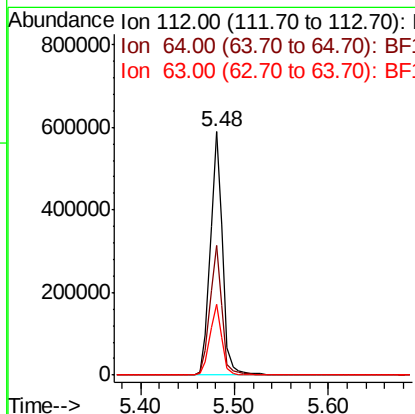
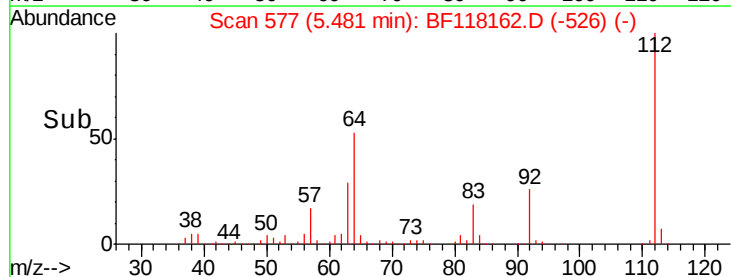
#5

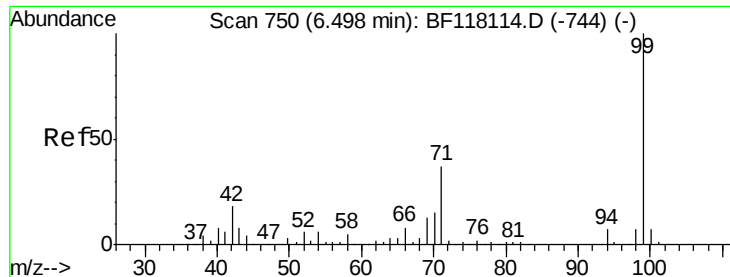
2-Fluorophenol
Concen: 107.955 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion:112 Resp: 547170
Ion Ratio Lower Upper
112 100
64 53.4 41.3 61.9
63 29.1 22.4 33.6



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: 112.715 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

Instrument :

BNA_F

ClientSampled :

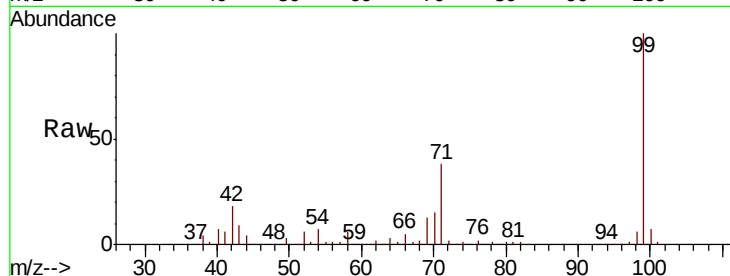
Tot Ion: 99 Resp: 690999

Ion Ratio Lower Upper

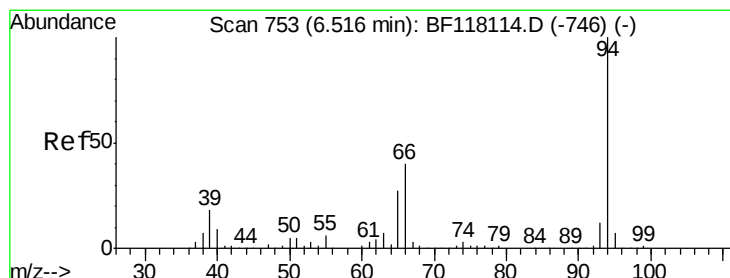
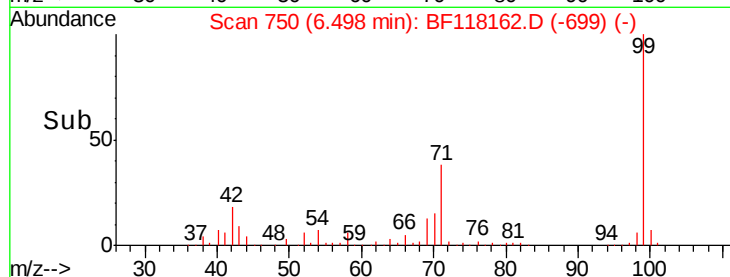
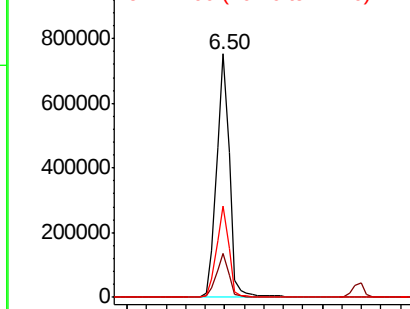
99 100

42 17.9 14.1 21.1

71 37.5 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



#10

Phenol

Concen: 5.796 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

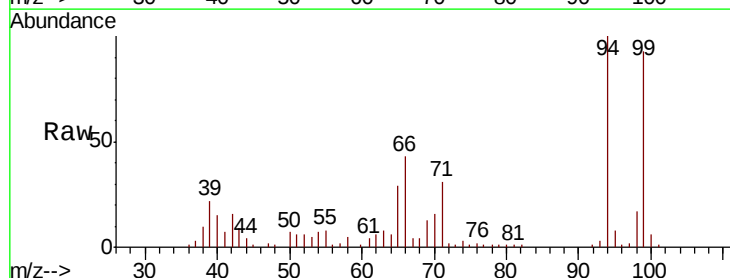
Tgt Ion: 94 Resp: 40522

Ion Ratio Lower Upper

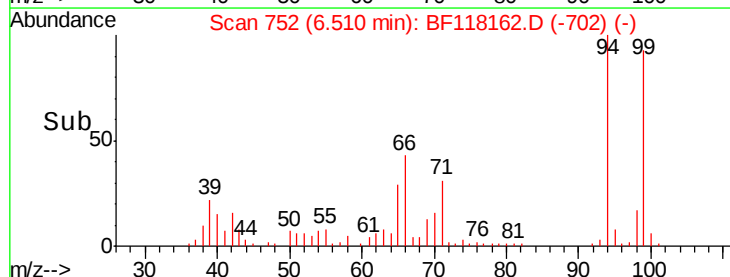
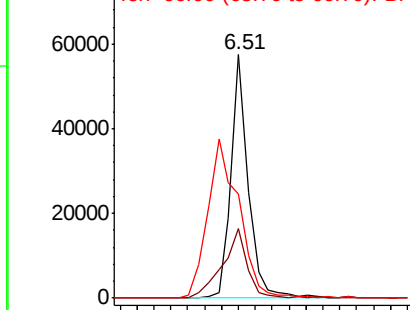
94 100

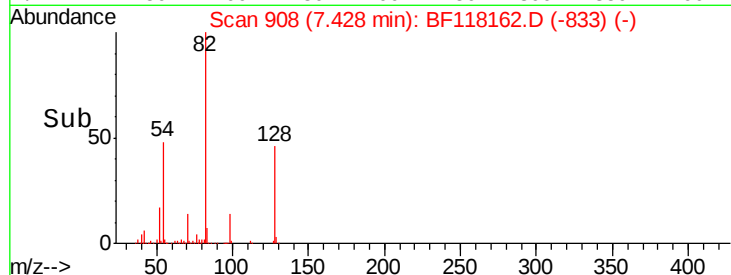
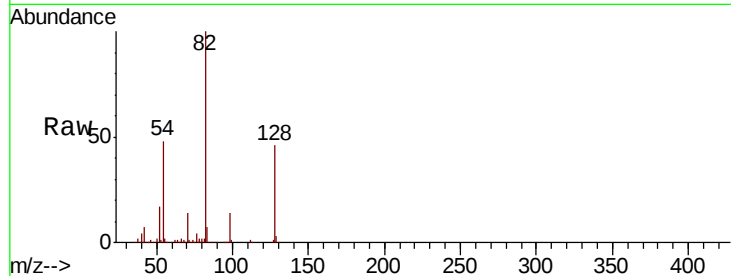
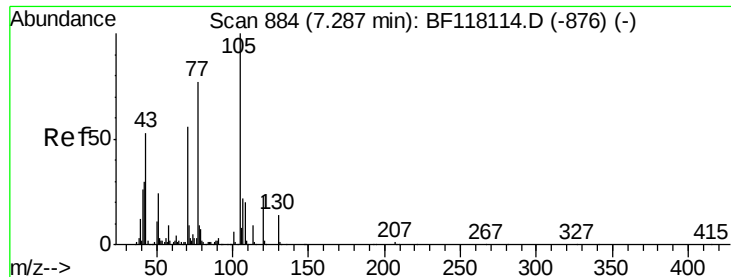
65 28.7 7.3 47.3

66 42.9 20.2 60.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

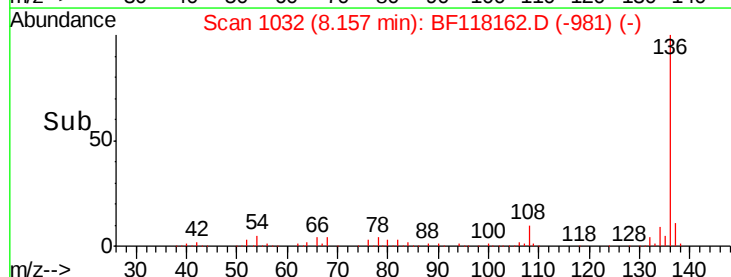
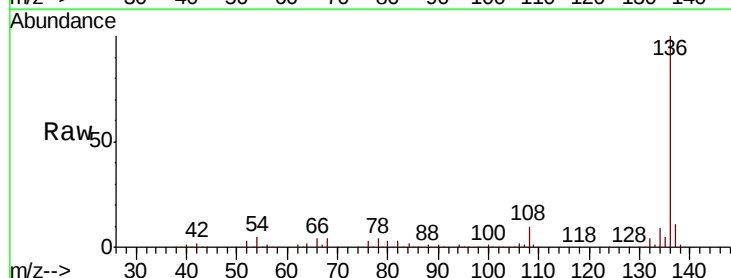
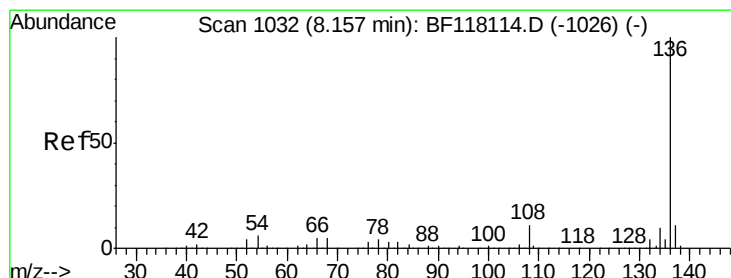
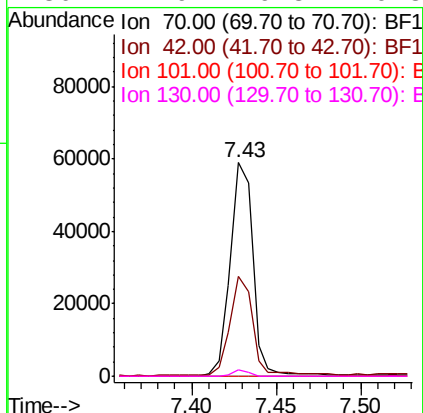




#19
n-Nitroso-di-n-propylamine
Concen: 14.992 ng
RT: 7.43 min Scan# 908
Delta R.T. 0.14 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

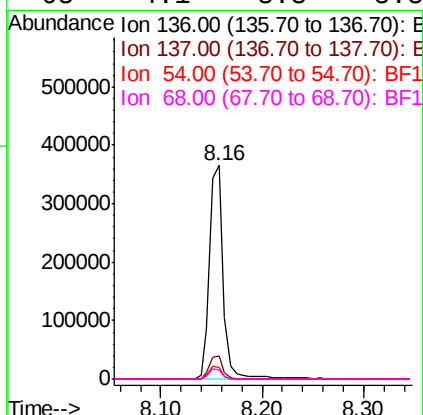
Instrument :
BNA_F
ClientSampleId :

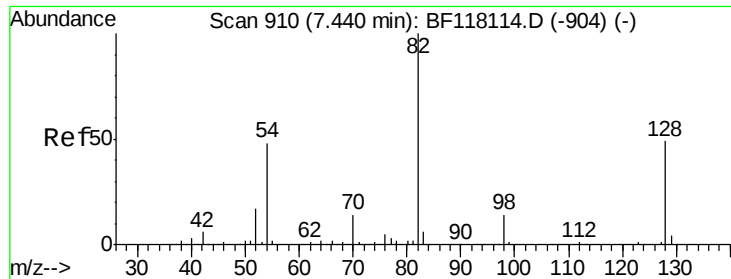
Tot Ion: 70 Resp: 55848
Ion Ratio Lower Upper
70 100
42 46.9 43.2 64.8
101 0.0 8.1 12.1#
130 2.9 19.8 29.8#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion: 136 Resp: 345483
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.6
54 5.2 5.0 7.6
68 4.1 3.8 5.8

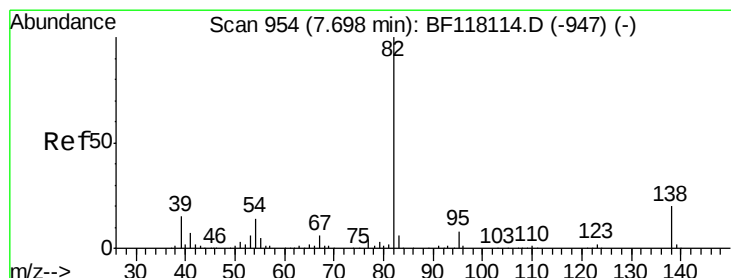
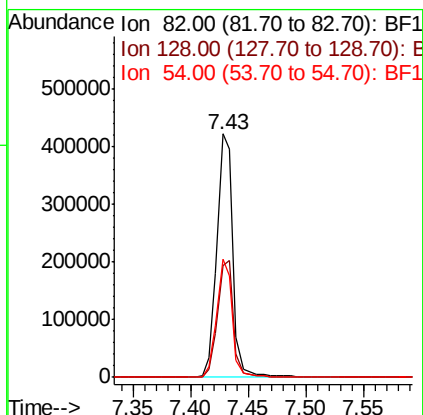
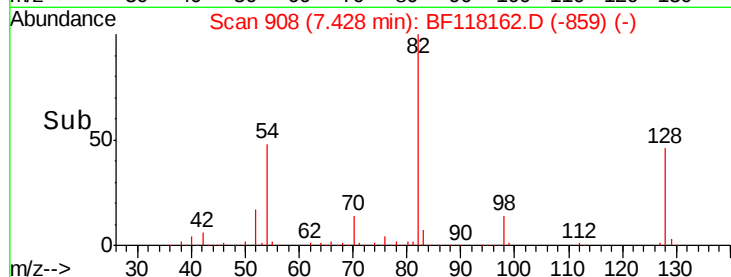
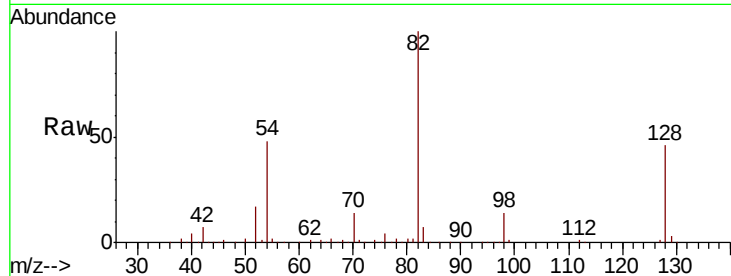




#23
Nitrobenzene-d5
Concen: 66.758 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

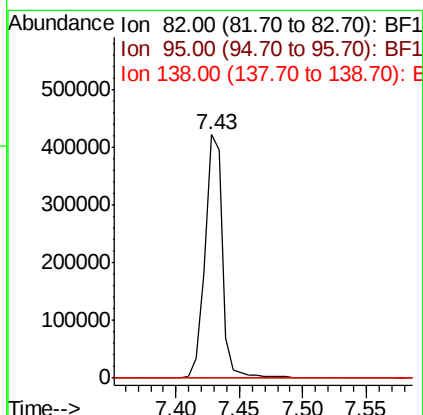
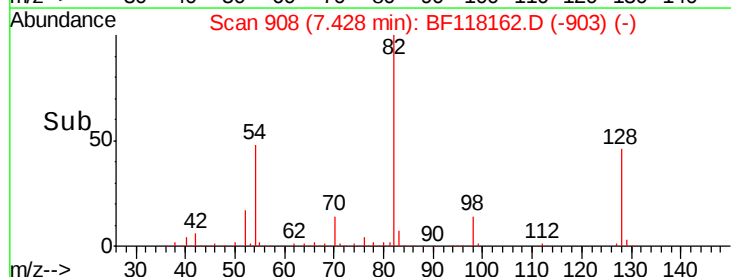
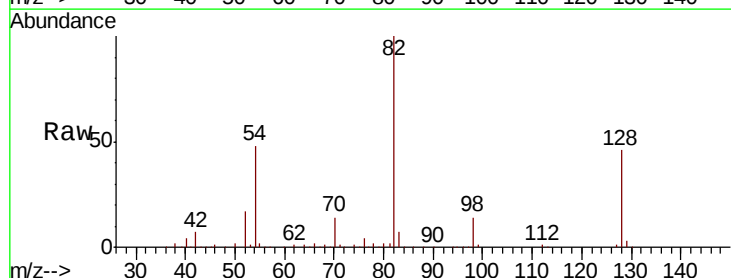
Instrument :
BNA_F
ClientSampleId :

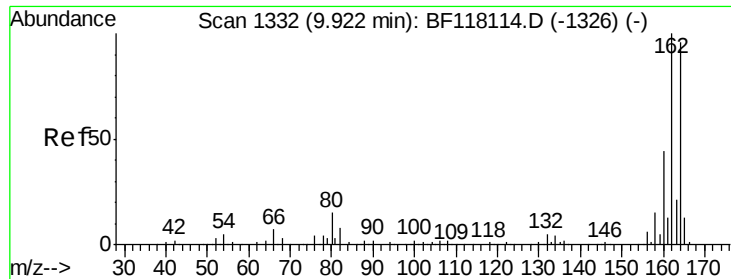
Tot Ion	82	Resp	409967
Ion Ratio	Lower	Upper	
82	100		
128	45.9	39.1	58.7
54	48.3	38.2	57.2



#25
Isophorone
Concen: 38.471 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.27 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion	82	Resp	400498
Ion Ratio	Lower	Upper	
82	100		
95	0.1	6.3	9.5#
138	0.0	16.3	24.5#

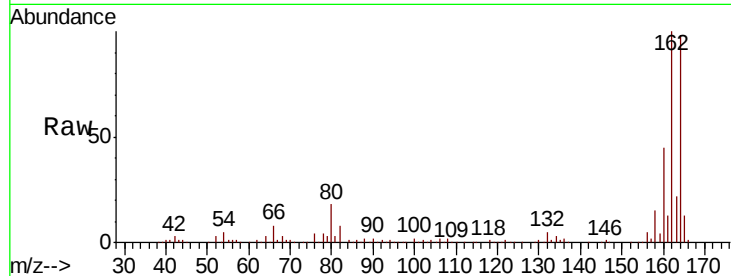




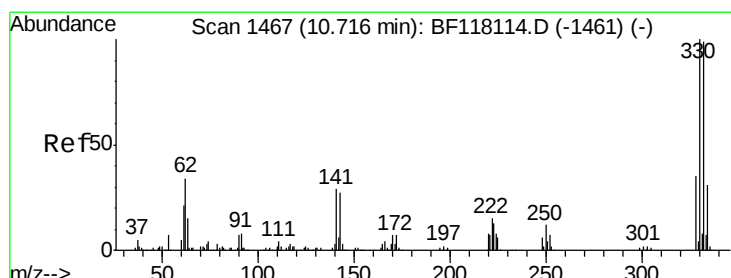
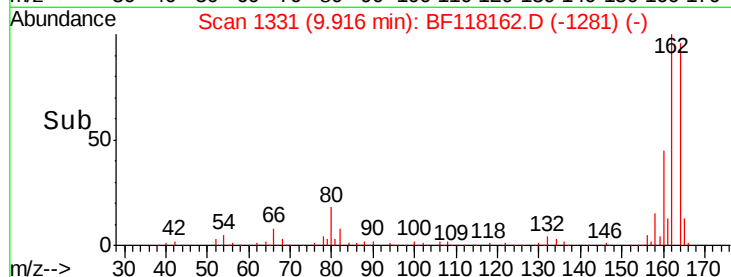
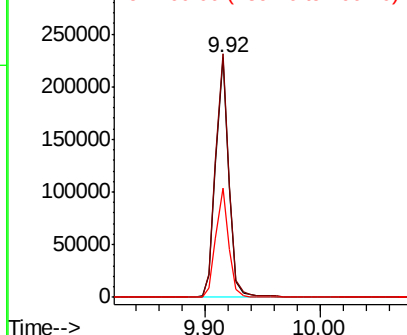
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 180541
Ion Ratio Lower Upper
164 100
162 101.7 83.4 125.0
160 45.5 36.6 54.8

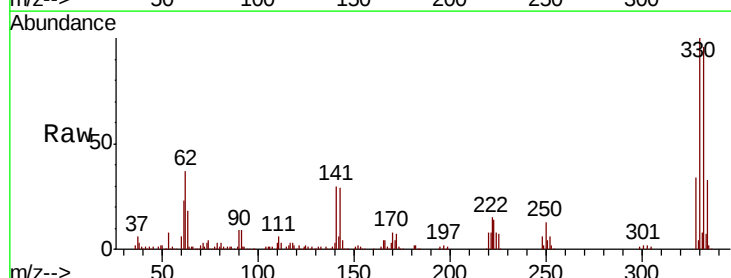


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

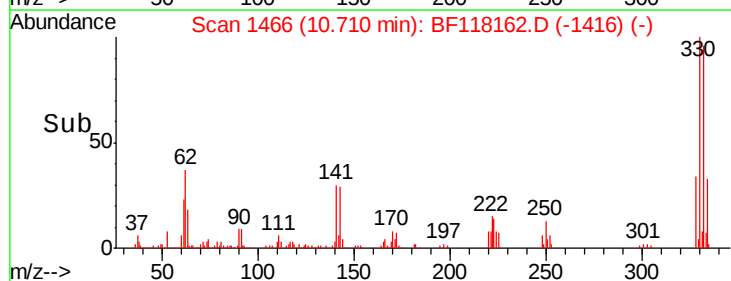
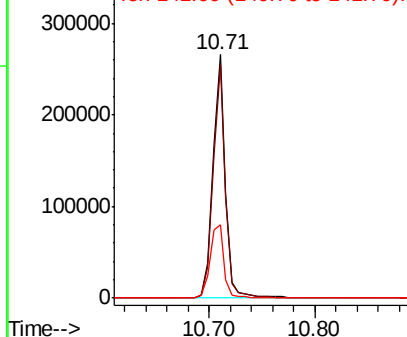


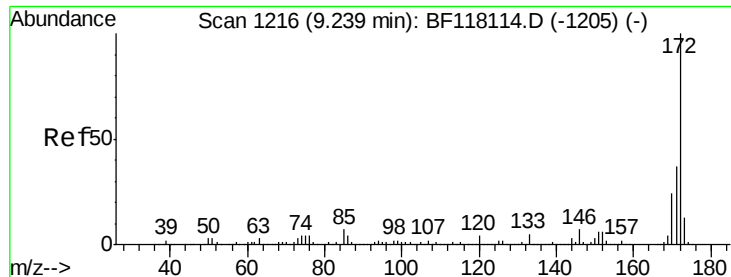
#42
2,4,6-Tribromophenol
Concen: 101.960 ng
RT: 10.71 min Scan# 1466
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion:330 Resp: 223624
Ion Ratio Lower Upper
330 100
332 94.5 78.1 117.1
141 34.0 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: 70.049 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

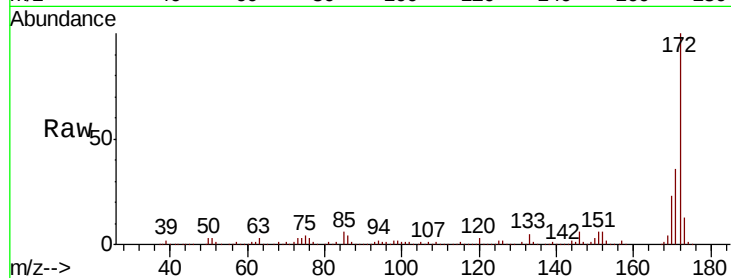
Instrument :

BNA_F

ClientSampled :

Tot Ion:172 Resp: 831119

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.5	19.4	29.2

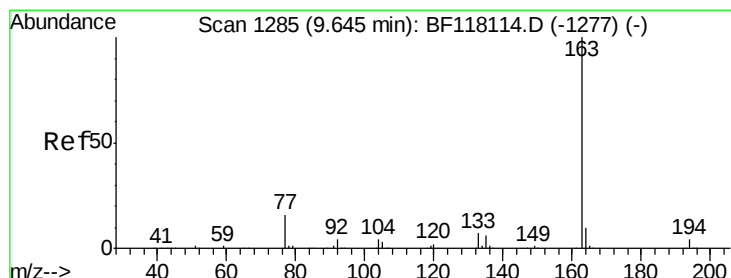
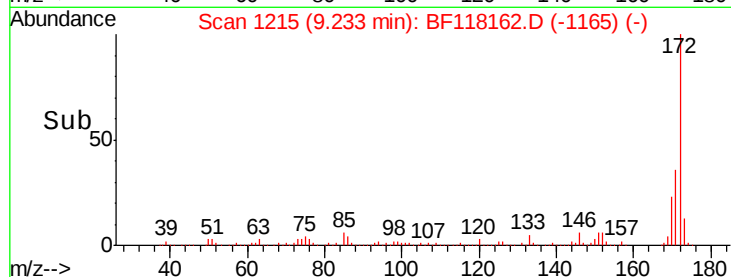
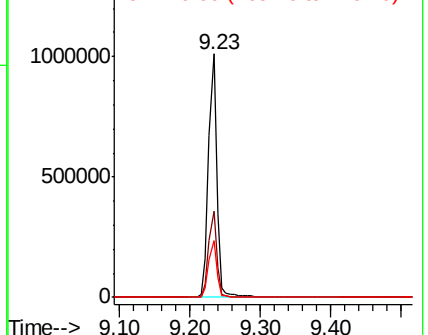


Abundance

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: 4.392 ng

RT: 9.63 min Scan# 1282

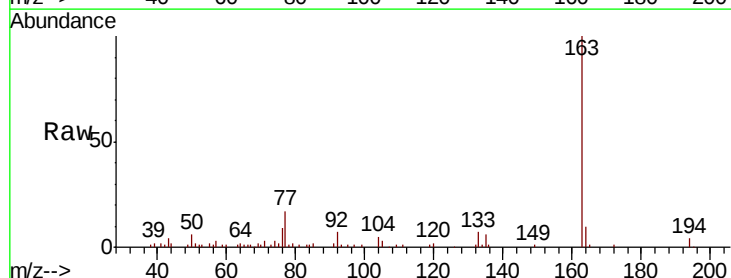
Delta R.T. -0.02 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

Tgt Ion:163 Resp: 58566

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.5	7.7	11.5

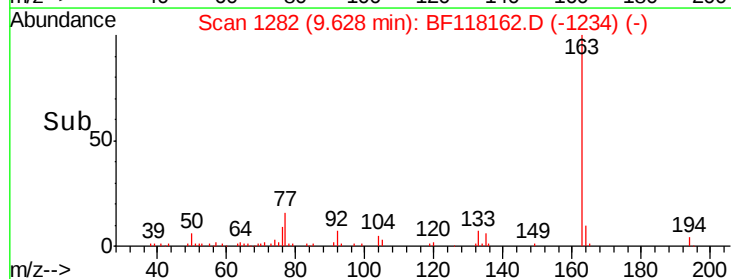
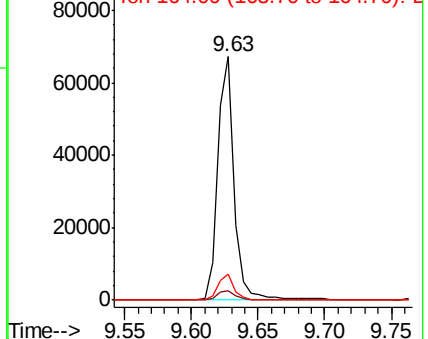


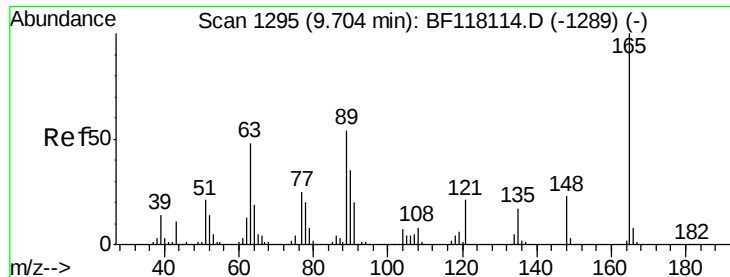
Abundance

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

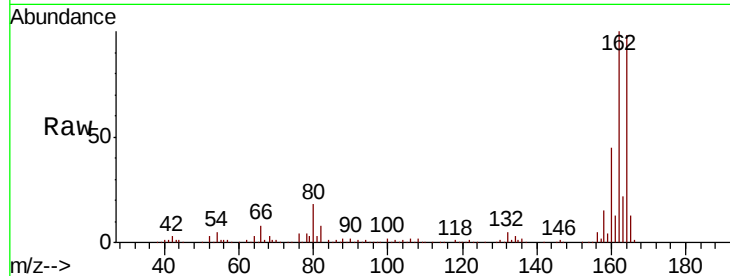




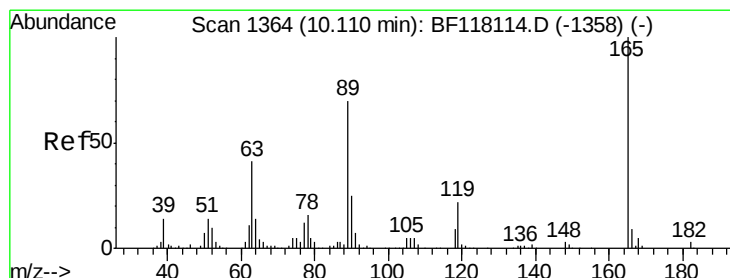
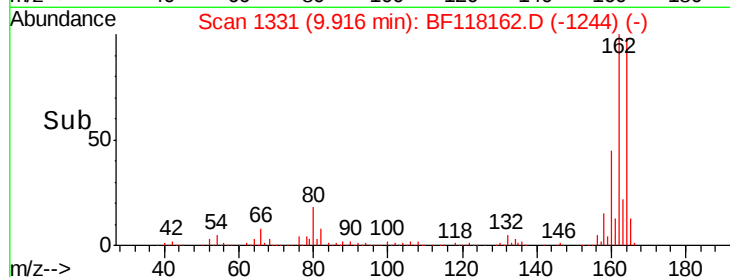
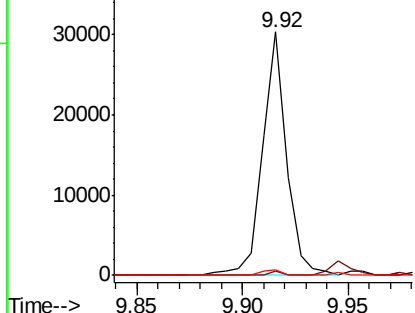
#51
2,6-Dinitrotoluene
Concen: 8.287 ng
RT: 9.92 min Scan# 1331
Delta R.T. 0.21 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	41.4	62.0#
89	2.0	42.9	64.3#



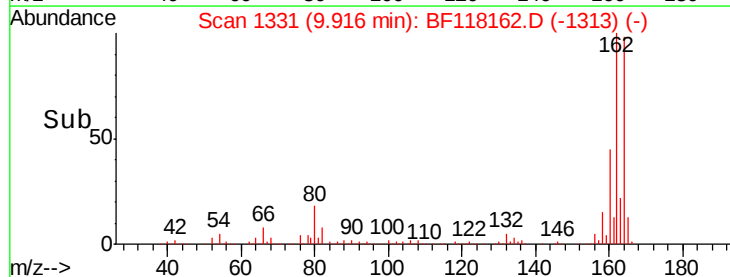
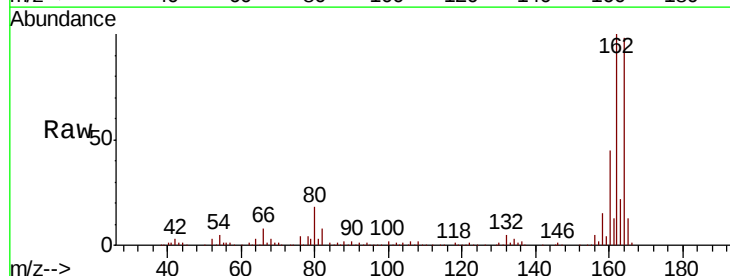
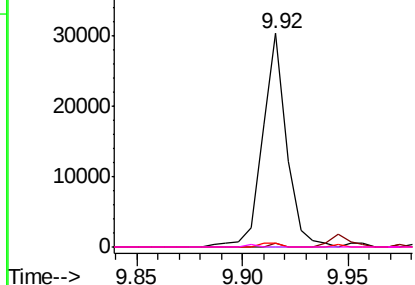
Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1

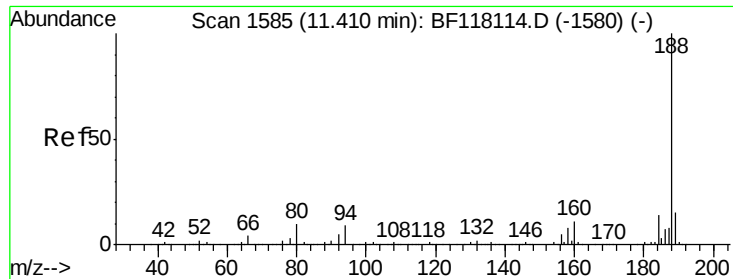


#57
2,4-Dinitrotoluene
Concen: 6.209 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.19 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	32.6	49.0#
89	2.0	56.1	84.1#
182	0.0	2.1	3.1#

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: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

Instrument :

BNA_F

ClientSampled :

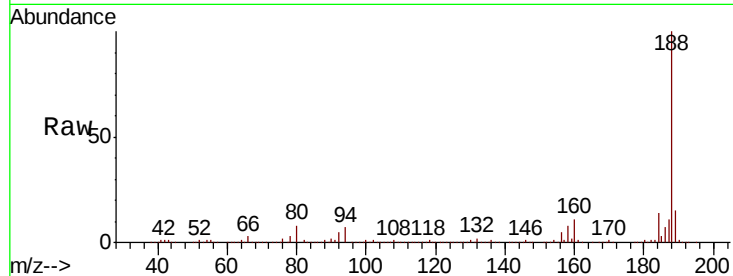
Tot Ion:188 Resp: 340867

Ion Ratio Lower Upper

188 100

94 7.5 7.1 10.7

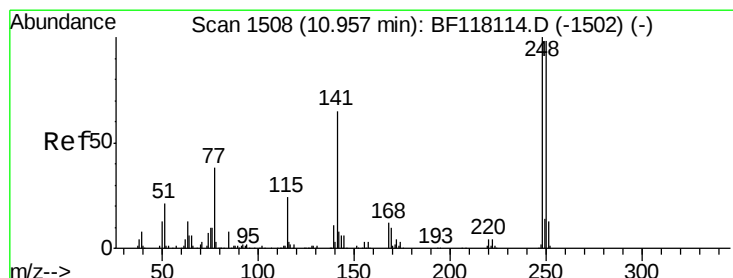
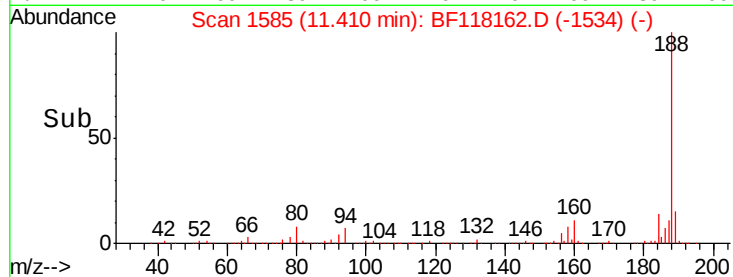
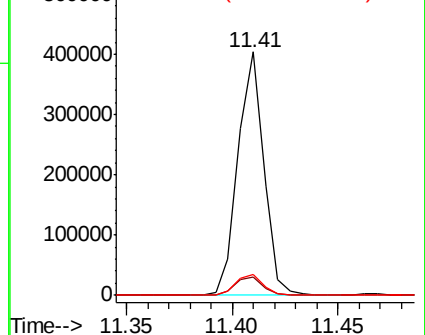
80 8.5 7.9 11.9



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: 3.541 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.25 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

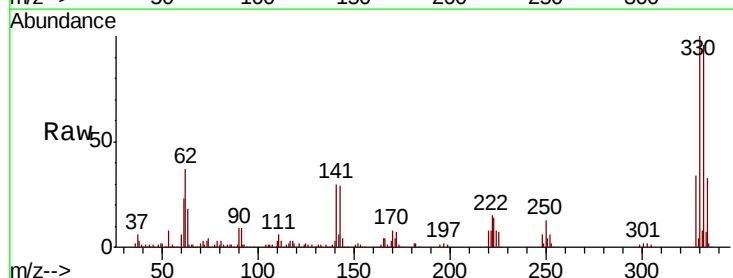
Tgt Ion:248 Resp: 13779

Ion Ratio Lower Upper

248 100

250 210.1 78.3 117.5#

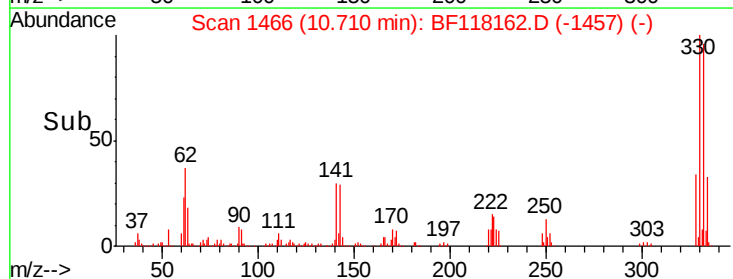
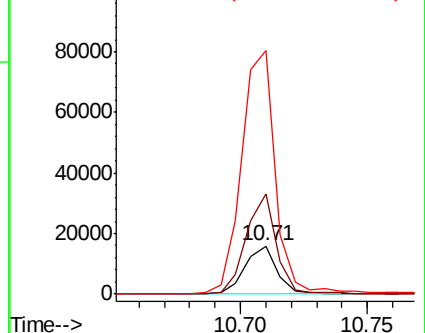
141 507.7 52.2 78.4#

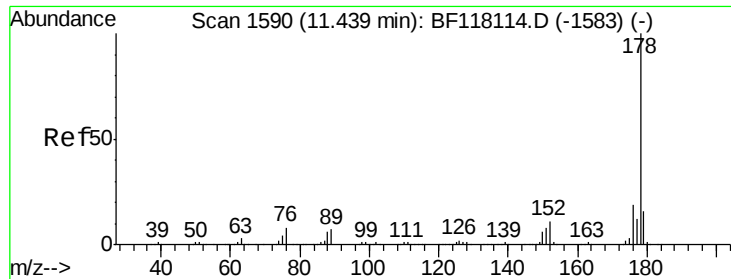


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

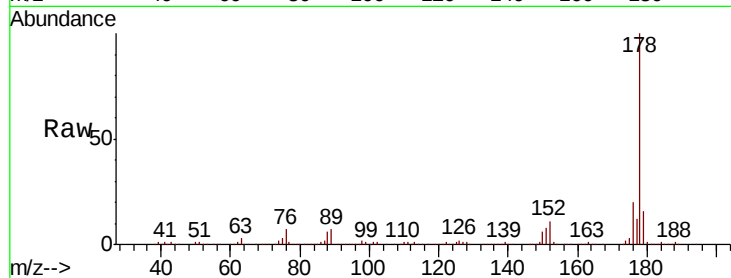




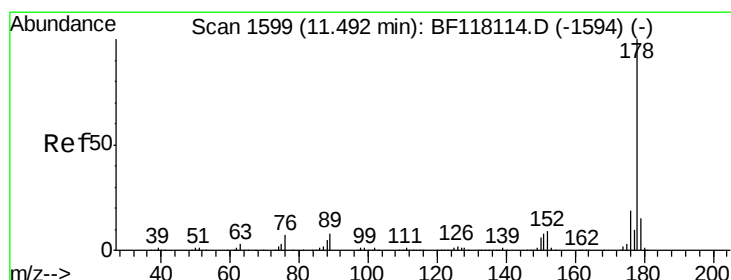
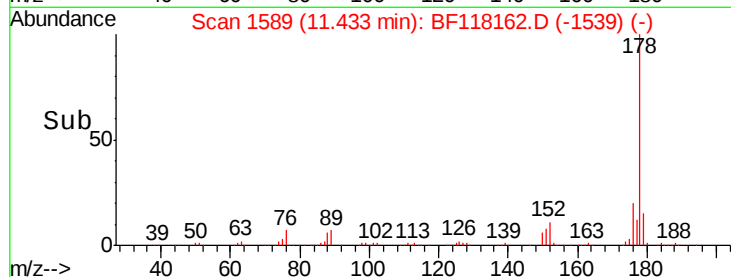
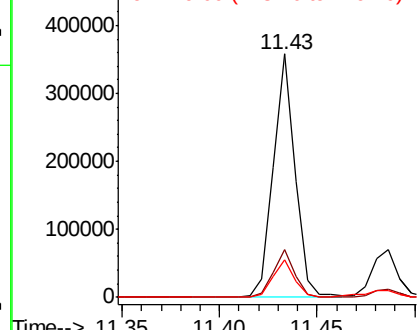
#71
Phenanthrene
Concen: 15.290 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 277064
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 15.5 12.6 18.8

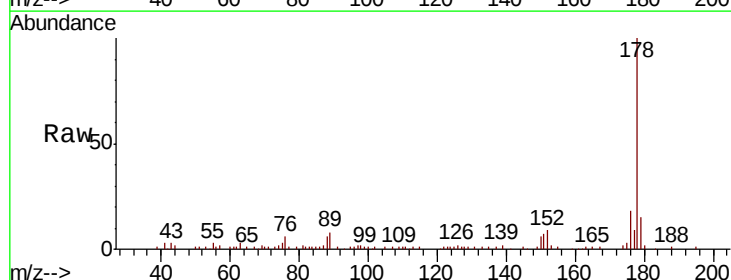


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

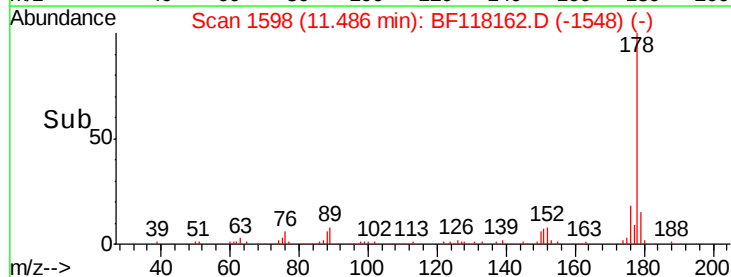
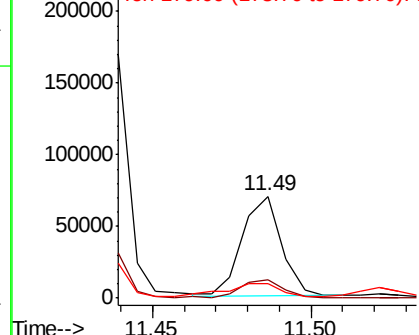


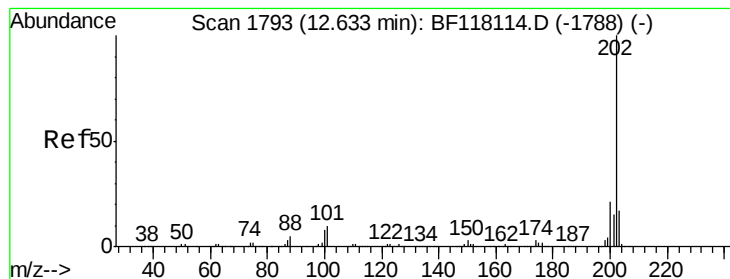
#72
Anthracene
Concen: 3.333 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion:178 Resp: 60250
Ion Ratio Lower Upper
178 100
176 17.9 15.0 22.6
179 14.6 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 19.498 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

Instrument :

BNA_F

ClientSampleId :

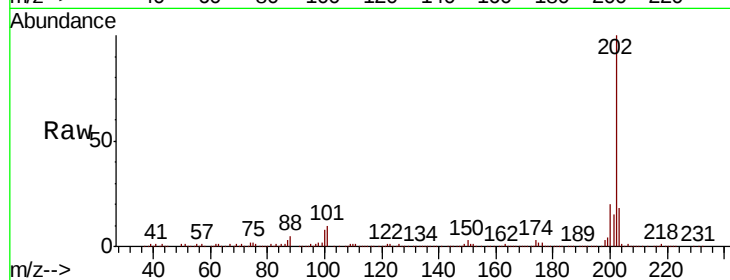
Tot Ion:202 Resp: 361219

Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.4

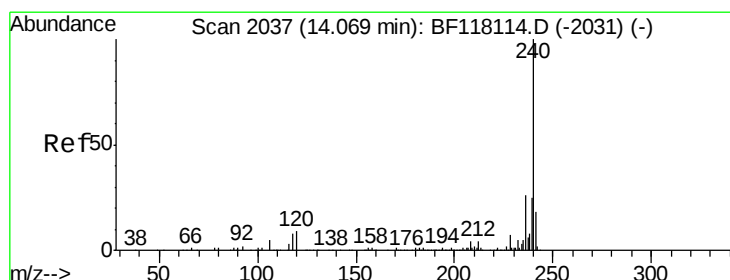
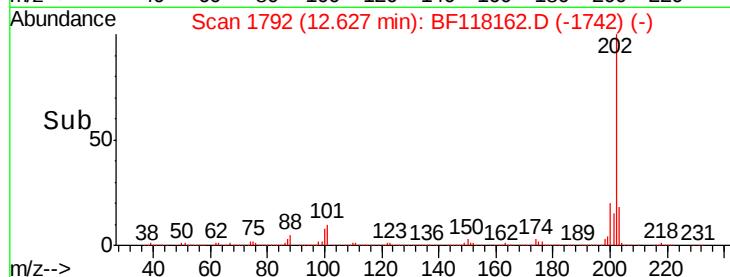
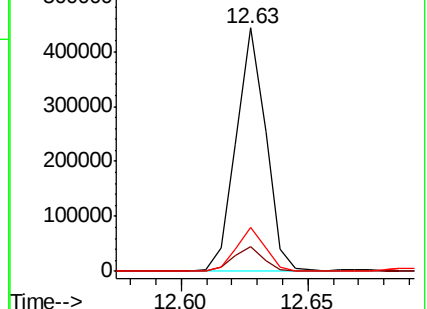
203 17.9 0.0 37.2



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# 2036

Delta R.T. -0.01 min

Lab File: BF118162.D

Acq: 10 Dec 2019 12:49

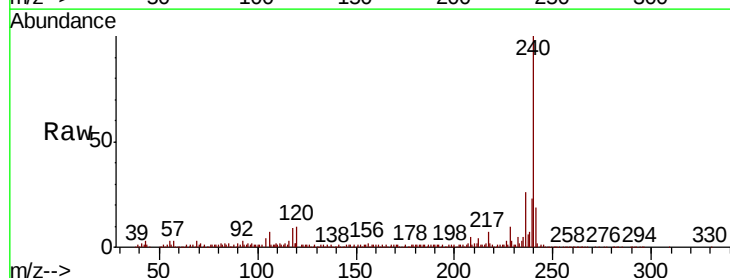
Tgt Ion:240 Resp: 222685

Ion Ratio Lower Upper

240 100

120 10.0 7.1 10.7

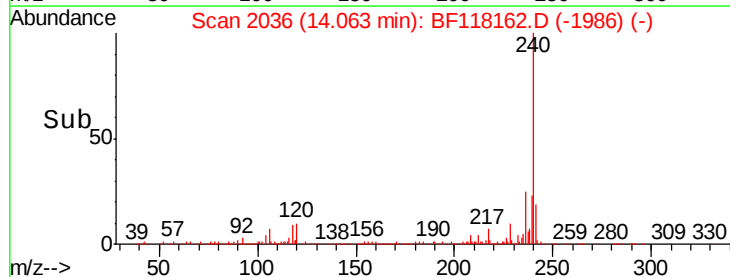
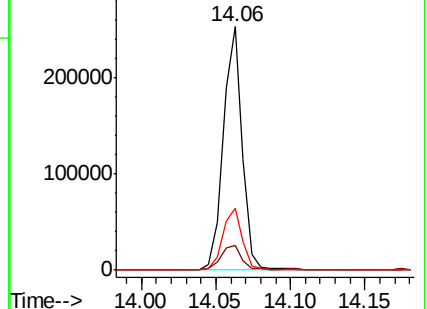
236 25.7 21.0 31.6

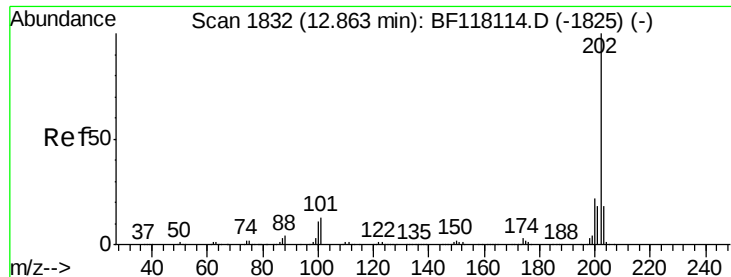


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

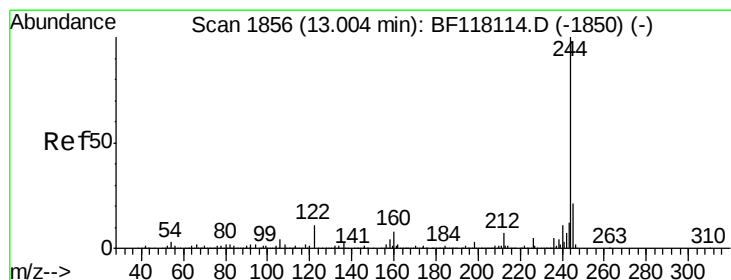
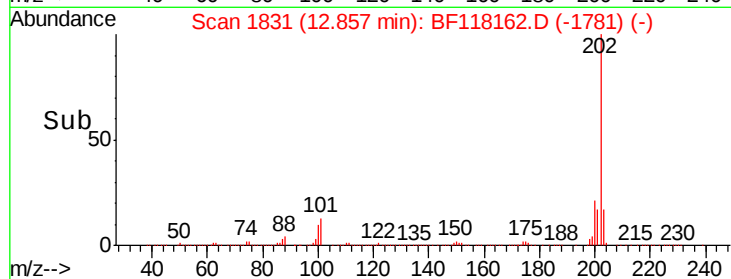
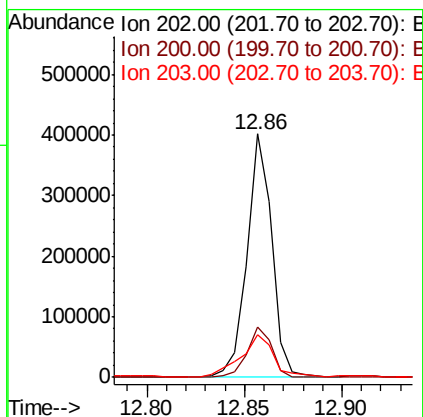
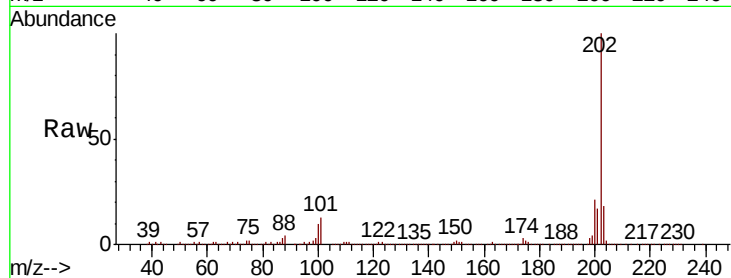




#78
Pvrene
Concen: 20.096 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

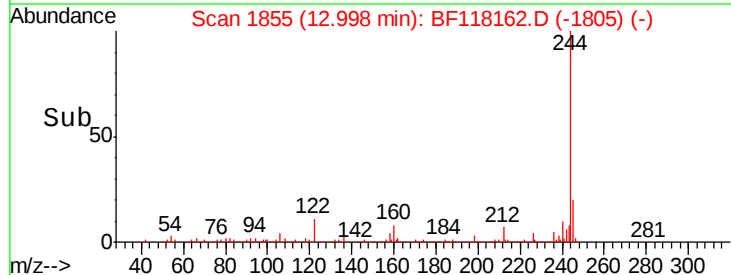
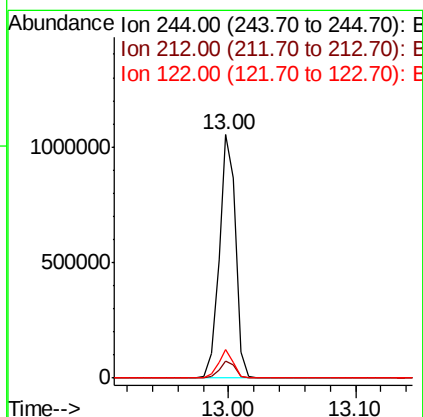
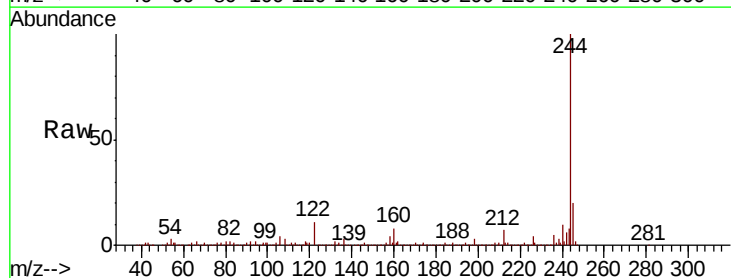
Instrument :
BNA_F
ClientSampleId :

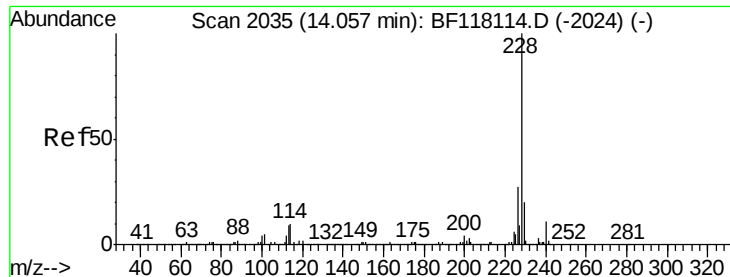
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.5	26.3
203	17.6	14.6	21.8



#79
Terphenyl-d14
Concen: 73.079 ng
RT: 13.00 min Scan# 1855
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	11.5	9.0	13.6

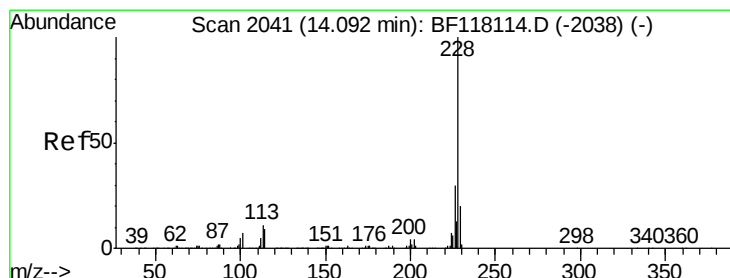
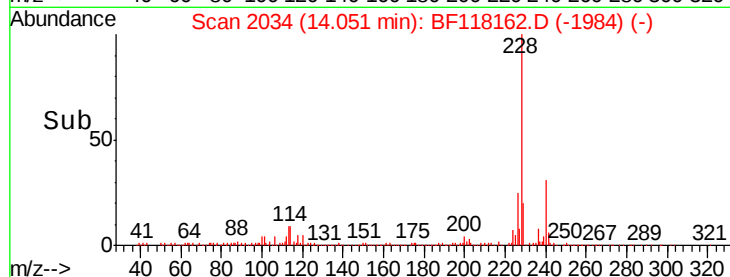
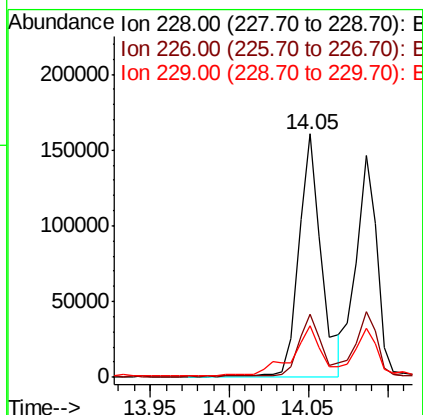
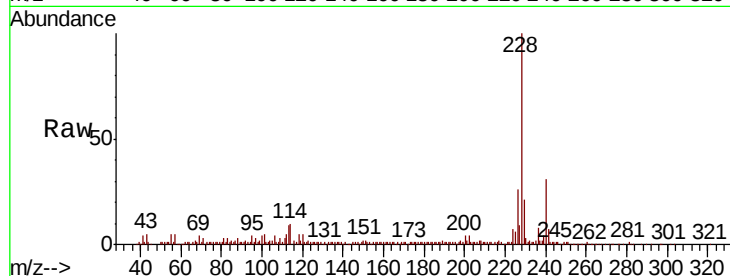




#81
Benzo(a)anthracene
Concen: 10.213 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

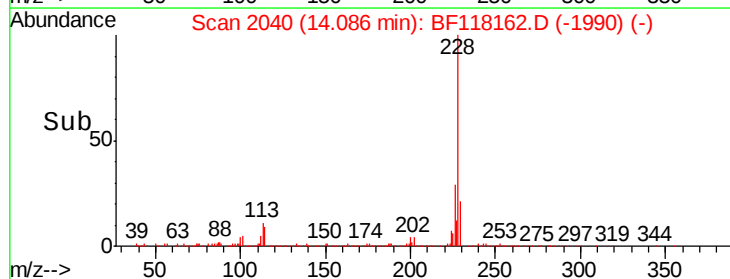
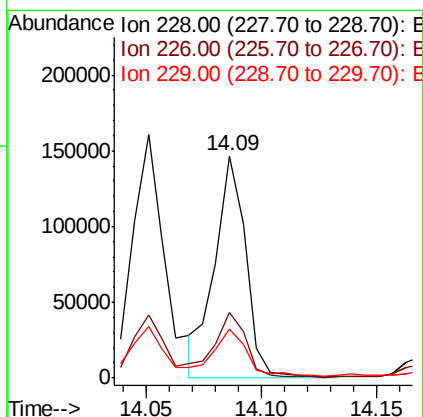
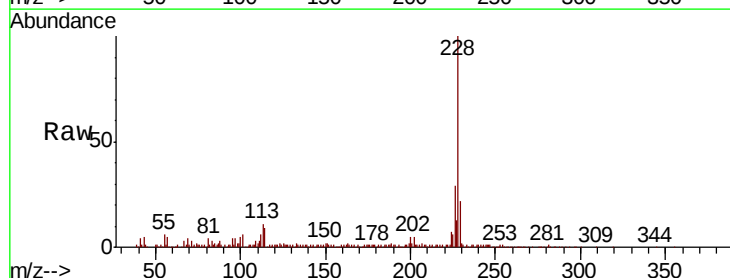
Instrument :
BNA_F
ClientSampleId :

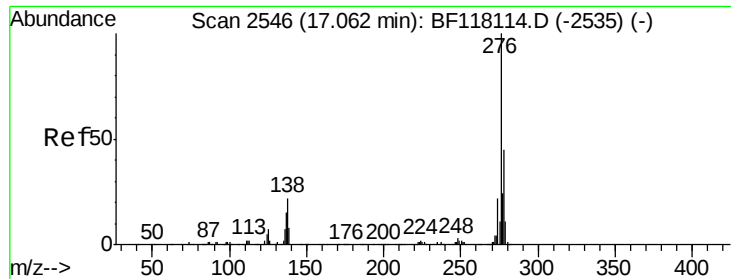
Tot Ion:228 Resp: 157265
Ion Ratio Lower Upper
228 100
226 26.1 21.8 32.8
229 21.4 15.8 23.8



#83
Chrysene
Concen: 9.236 ng
RT: 14.09 min Scan# 2040
Delta R.T. -0.01 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion:228 Resp: 135847
Ion Ratio Lower Upper
228 100
226 29.4 23.8 35.8
229 22.2 15.7 23.5

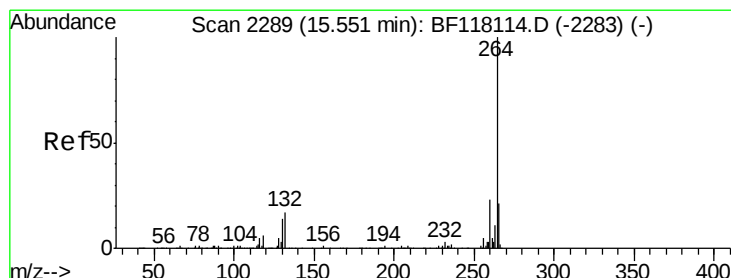
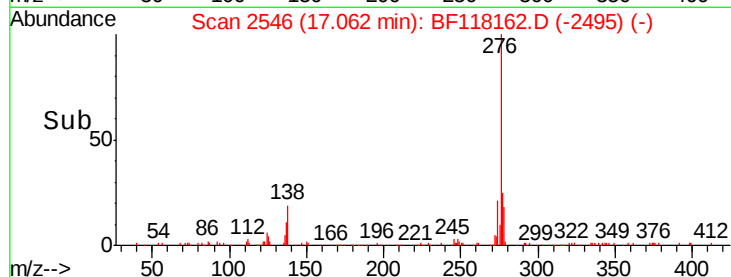
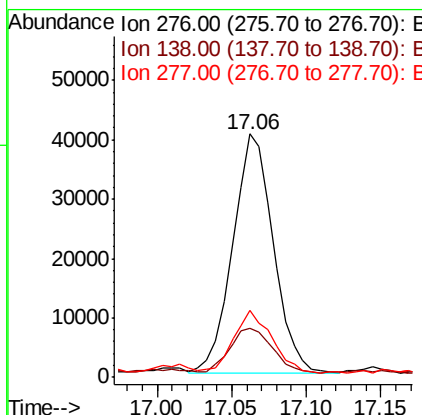
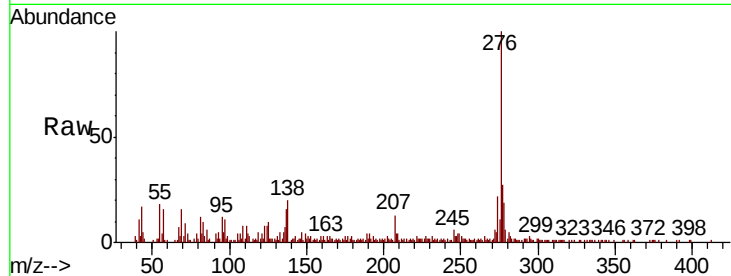




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 6.143 ng
 RT: 17.06 min Scan# 2546
 Delta R.T. -0.00 min
 Lab File: BF118162.D
 Acq: 10 Dec 2019 12:49

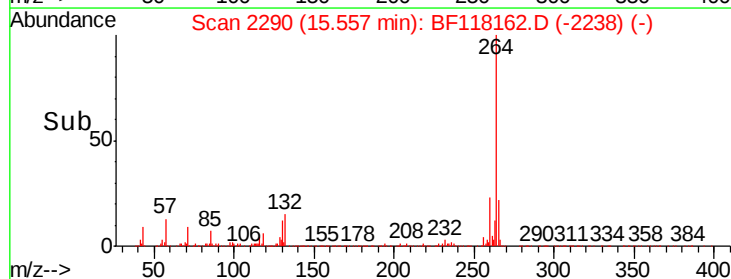
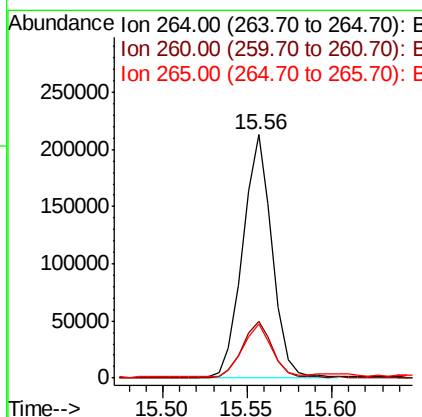
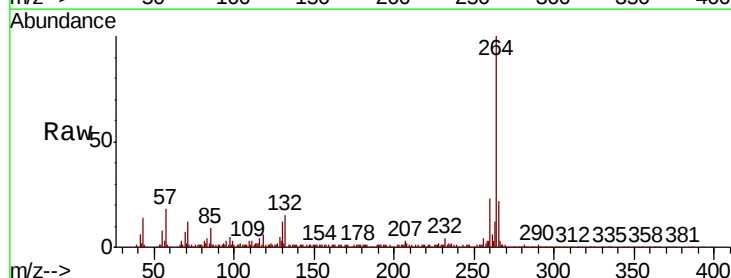
Instrument :
 BNA_F
 ClientSampleId :

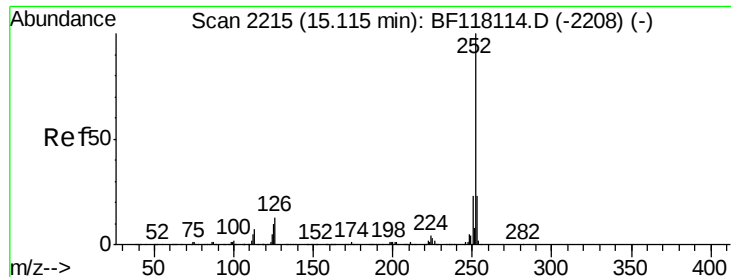
Tot Ion:276 Resp: 76021
 Ion Ratio Lower Upper
 276 100
 138 20.5 18.9 28.3
 277 24.3 20.4 30.6



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.56 min Scan# 2290
 Delta R.T. 0.01 min
 Lab File: BF118162.D
 Acq: 10 Dec 2019 12:49

Tgt Ion:264 Resp: 257347
 Ion Ratio Lower Upper
 264 100
 260 23.4 18.6 28.0
 265 22.5 16.8 25.2

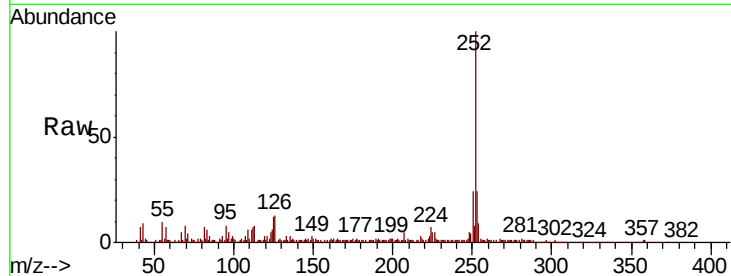




#88
Benzo(b)fluoranthene
Concen: 12.862 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.2	27.4
125	12.4	8.3	12.5

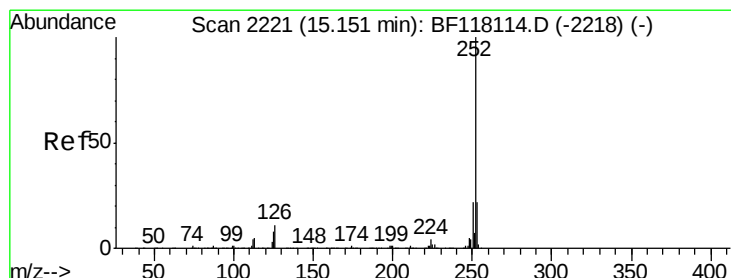
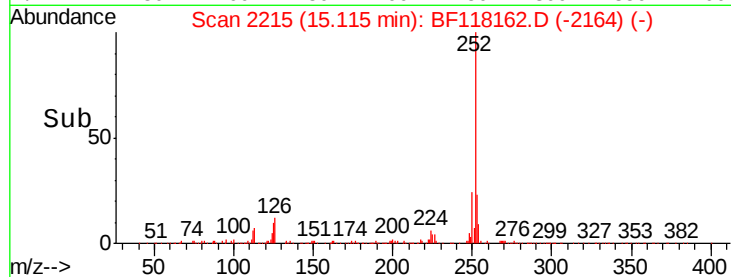
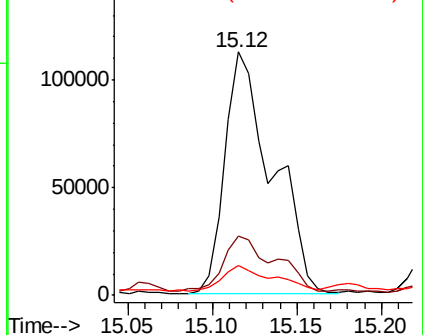


Abundance

Ion 252.00 (251.70 to 252.70): E

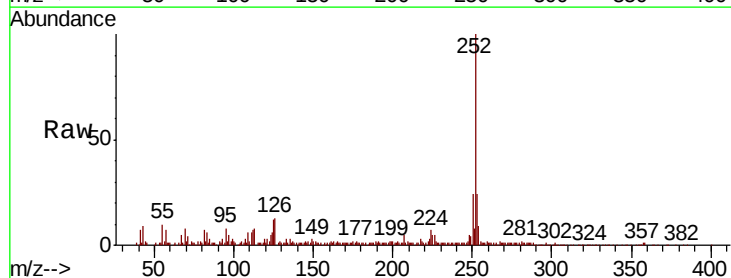
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 13.388 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.04 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.6	26.4
125	12.4	6.7	10.1

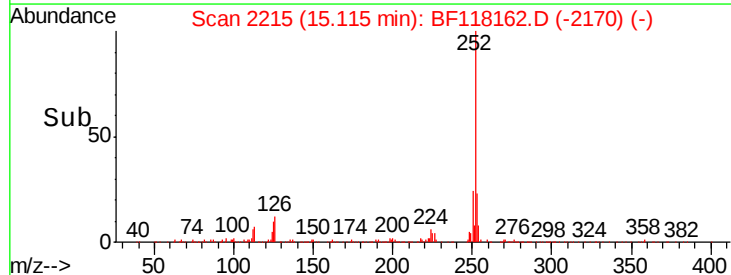
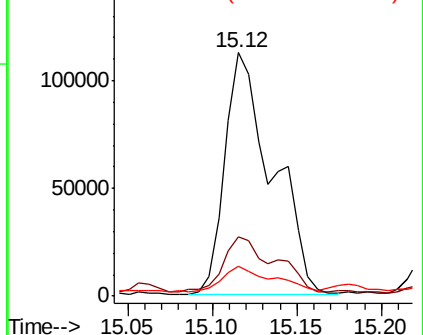


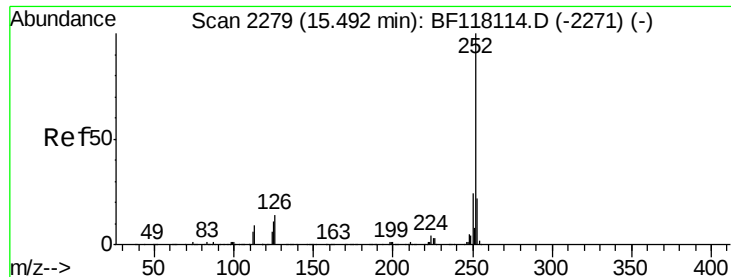
Abundance

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

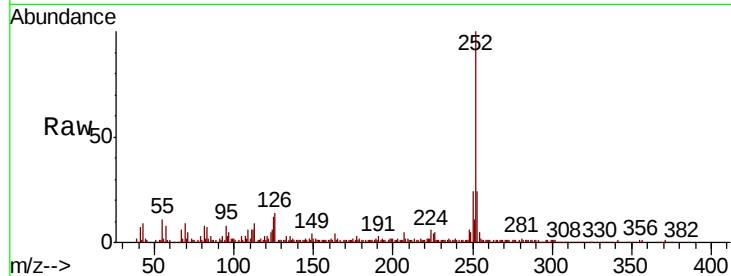




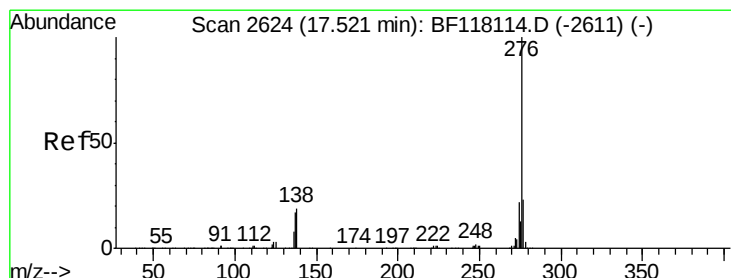
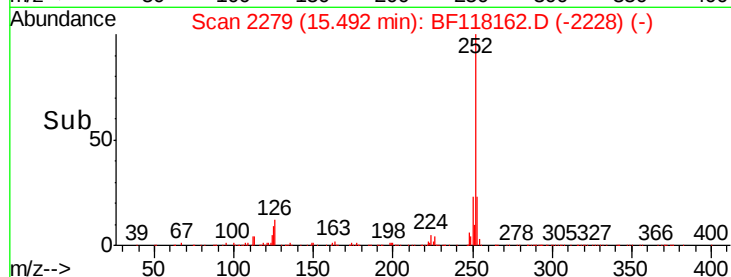
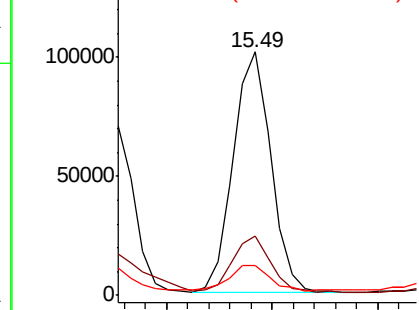
#90
Benzo(a)pyrene
Concen: 8.358 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 125631
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 12.3 9.1 13.7

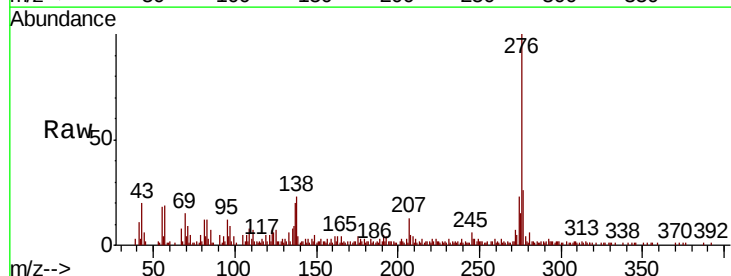


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 5.883 ng
RT: 17.52 min Scan# 2624
Delta R.T. -0.00 min
Lab File: BF118162.D
Acq: 10 Dec 2019 12:49

Tgt Ion:276 Resp: 72889
Ion Ratio Lower Upper
276 100
277 26.2 18.2 27.4
138 22.9 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

