

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
 Data File : BF117889.D
 Acq On : 20 Nov 2019 13:31
 Operator : JU
 Sample : K5908-03
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

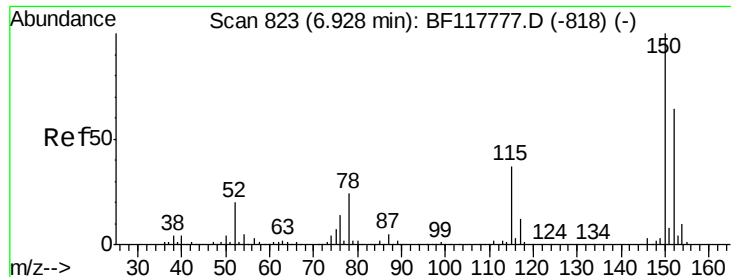
Quant Time: Nov 21 03:06:10 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 18:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	154823	20.00	ng	-0.01
21) Naphthalene-d8	8.20	136	584779	20.00	ng	-0.01
39) Acenaphthene-d10	9.96	164	333739	20.00	ng	-0.01
64) Phenanthrene-d10	11.46	188	635891	20.00	ng	-0.01
76) Chrysene-d12	14.10	240	374981	20.00	ng	-0.01
87) Perylene-d12	15.62	264	423566	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	974864	111.46	ng	0.00
7) Phenol-d6	6.54	99	1299999	123.23	ng	0.00
23) Nitrobenzene-d5	7.47	82	793027	80.62	ng	-0.02
42) 2,4,6-Tribromophenol	10.76	330	394574	111.67	ng	-0.01
45) 2-Fluorobiphenyl	9.28	172	1478987	79.50	ng	-0.01
79) Terphenyl-d14	13.05	244	1315605	64.12	ng	0.00

Target Compounds				Qvalue		
9) Benzaldehyde	6.54	77	3035	Below Cal	#	1
10) Phenol	6.55	94	72597	6.622 ng		86
19) n-Nitroso-di-n-propylamine	7.47	70	108837	16.723 ng	#	75
25) Isophorone	7.47	82	787684	43.687 ng	#	62
50) Dimethylphthalate	9.67	163	257442	11.000 ng		97
56) 4-Nitrophenol	10.17	139	18980	4.155 ng	#	10
57) 2,4-Dinitrotoluene	9.96	165	44301	6.809 ng	#	25
58) Fluorene	10.52	166	48964	2.399 ng		97
67) 4-Bromophenyl-phenylether	10.76	248	25308	3.689 ng	#	1
71) Phenanthrene	11.48	178	764399	23.910 ng		97
72) Anthracene	11.53	178	143333	4.522 ng		96
73) Carbazole	11.69	167	72175	2.606 ng		94
75) Fluoranthene	12.67	202	702106	19.923 ng		99
78) Pyrene	12.90	202	490794	16.196 ng		98
81) Benzo(a)anthracene	14.09	228	246907	9.964 ng		99
83) Chrysene	14.13	228	222156	9.252 ng		97
86) Indeno(1,2,3-cd)pyrene	17.14	276	89954	4.402 ng		96
88) Benzo(b)fluoranthene	15.16	252	348660	12.670 ng		97
89) Benzo(k)fluoranthene	15.16	252	348660	13.447 ng	#	96
90) Benzo(a)pyrene	15.54	252	172874	7.144 ng		98
92) Benzo(a,h,i)perylene	17.60	276	76555	3.690 ng		99

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

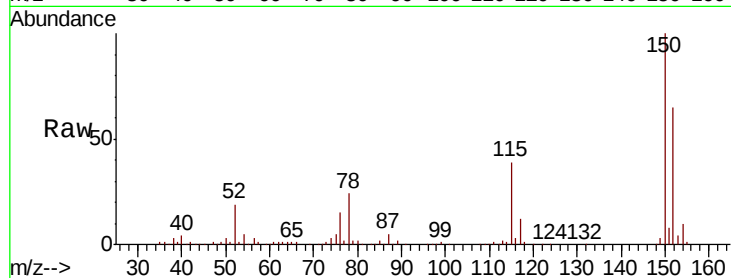


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	125.3	187.9
115	60.1	47.0	70.4

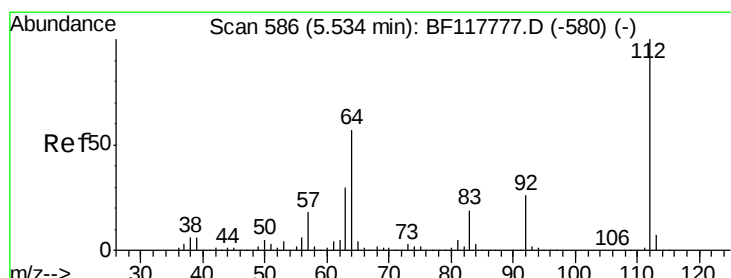
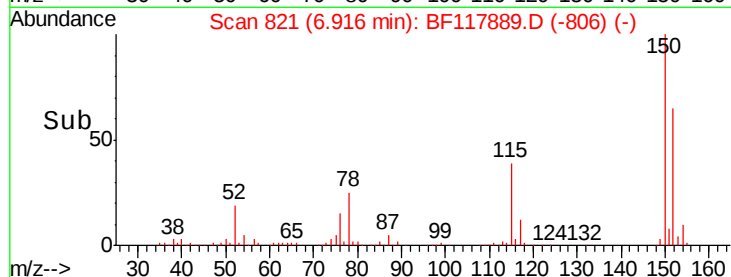
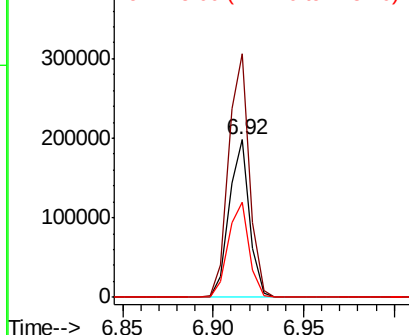


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

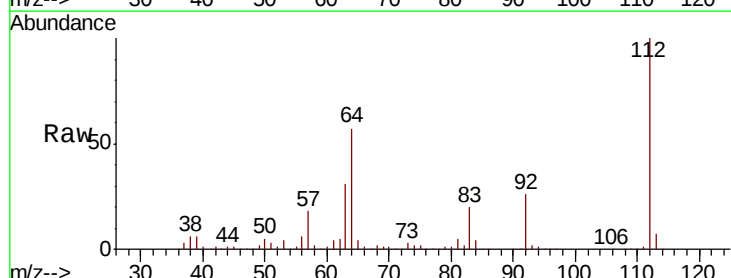
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 111.457 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	45.6	68.4
63	30.8	24.1	36.1

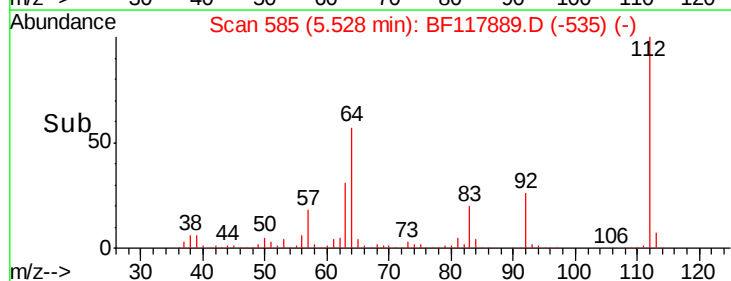
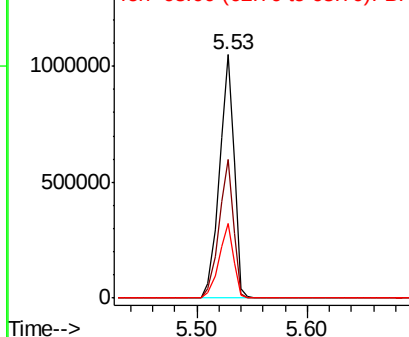


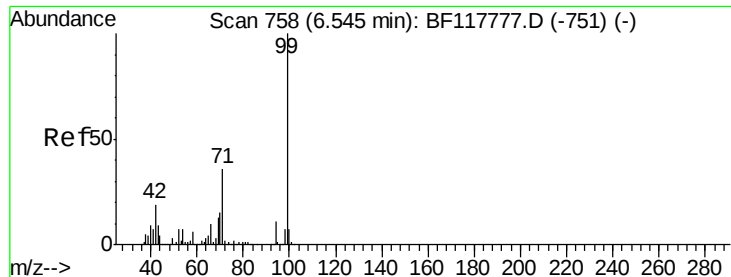
Abundance

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: 123.226 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

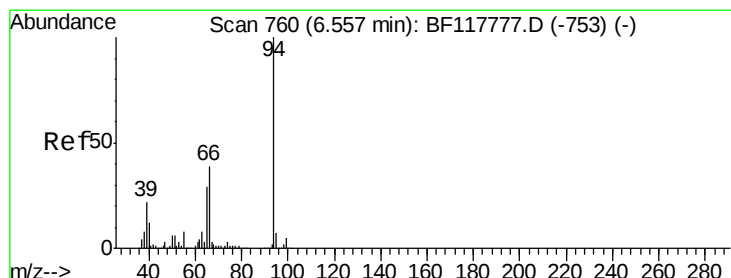
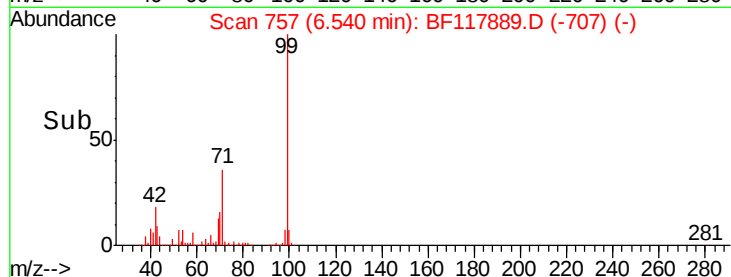
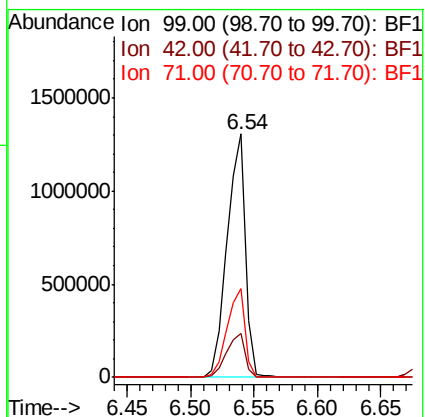
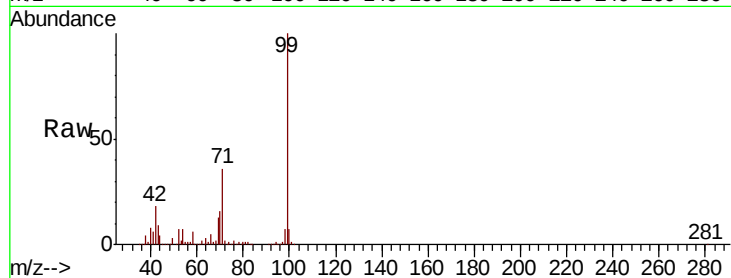
Tot Ion: 99 Resp: 1299999

Ion Ratio Lower Upper

99 100

42 18.3 14.9 22.3

71 36.4 28.6 43.0



#10

Phenol

Concen: 6.622 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

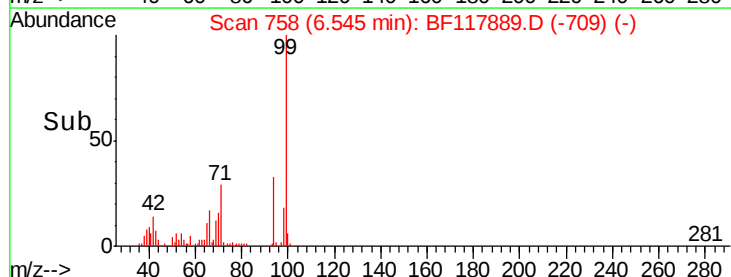
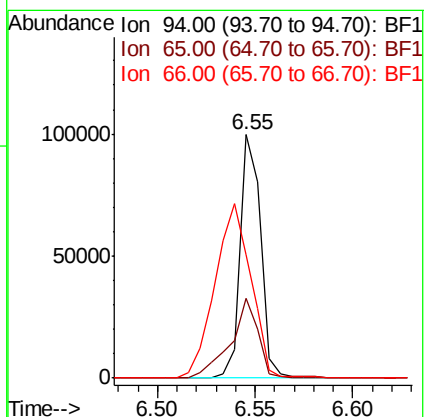
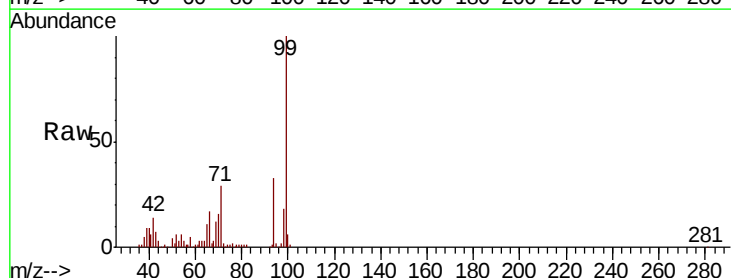
Tgt Ion: 94 Resp: 72597

Ion Ratio Lower Upper

94 100

65 32.6 8.9 48.9

66 50.6 18.7 58.7

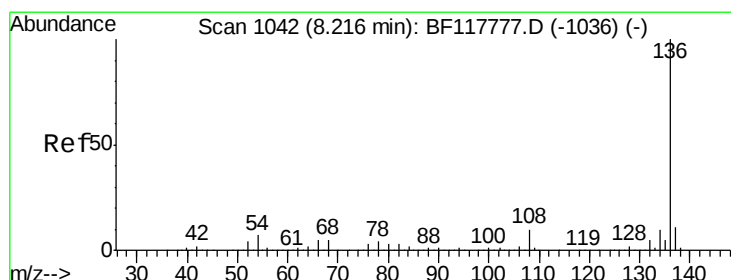
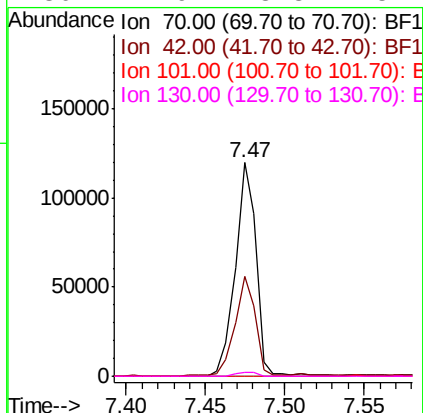
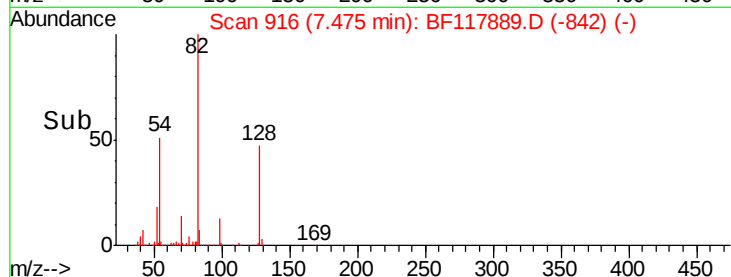
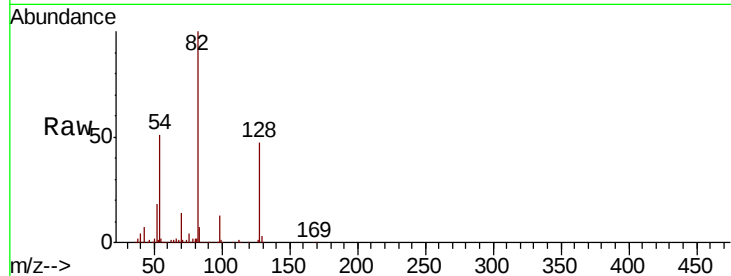




#19
n-Nitroso-di-n-propylamine
Concen: 16.723 ng
RT: 7.47 min Scan# 916
Delta R.T. 0.14 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

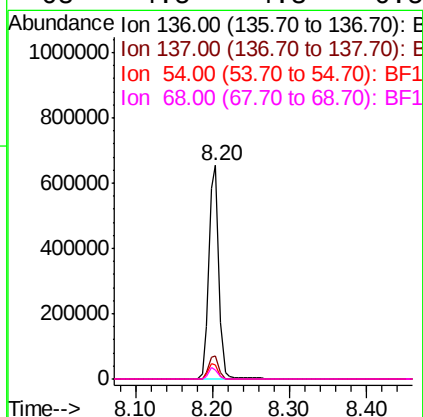
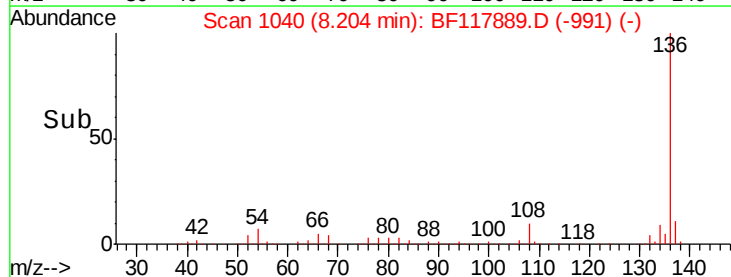
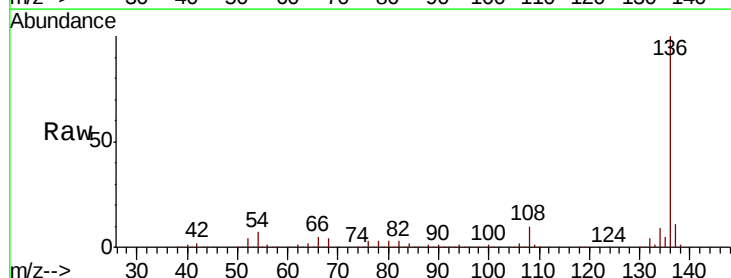
Instrument :
BNA_F
ClientSampleId :

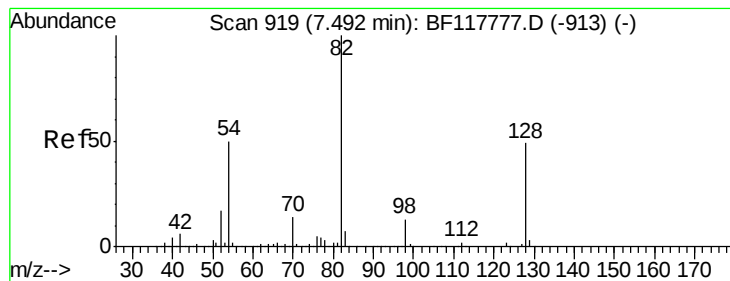
Tot Ion: 70 Resp: 108837
Ion Ratio Lower Upper
70 100
42 46.9 47.4 71.2#
101 0.0 8.4 12.6#
130 1.9 18.8 28.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion:136 Resp: 584779
Ion Ratio Lower Upper
136 100
137 10.7 9.0 13.4
54 6.6 5.4 8.2
68 4.5 4.3 6.5





#23

Nitrobenzene-d5

Concen: 80.615 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.02 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

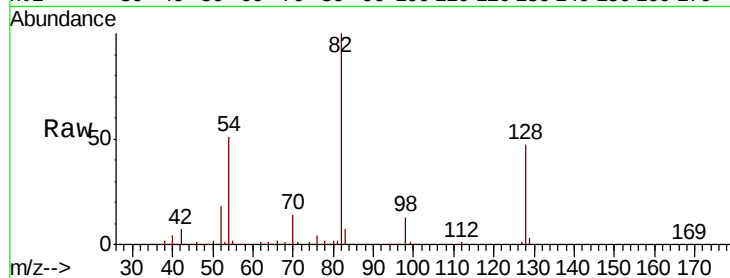
Tot Ion: 82 Resp: 793027

Ion Ratio Lower Upper

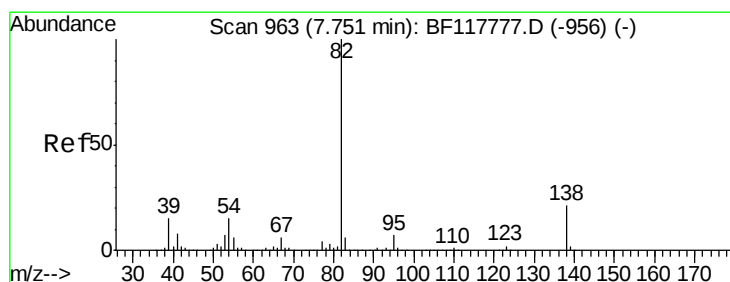
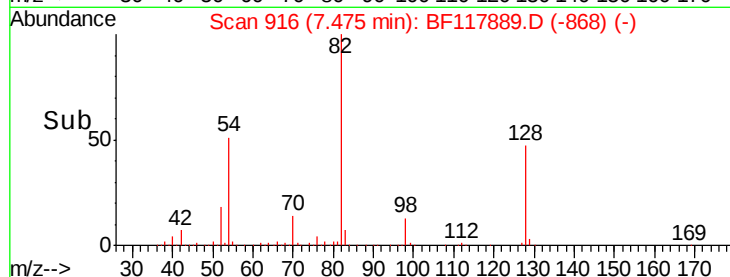
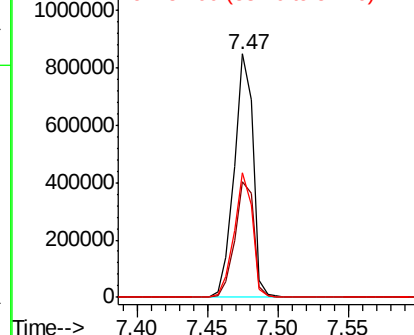
82 100

128 47.5 38.9 58.3

54 51.3 39.8 59.6



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



#25

Isophorone

Concen: 43.687 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.28 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

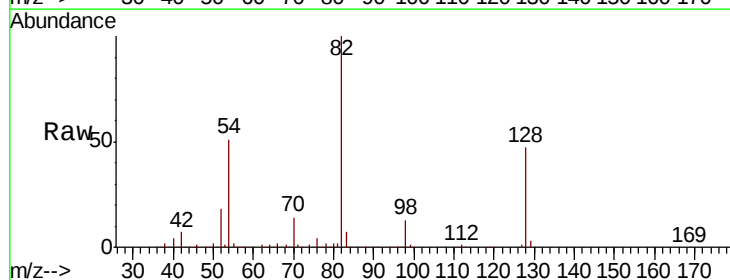
Tgt Ion: 82 Resp: 787684

Ion Ratio Lower Upper

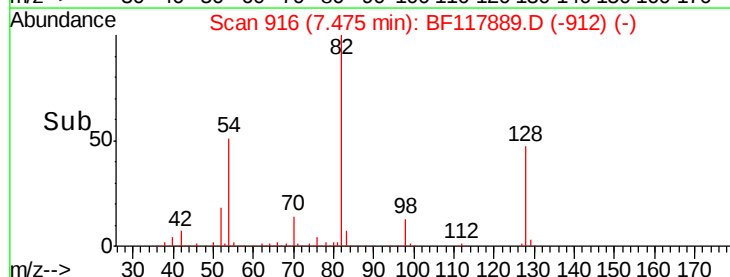
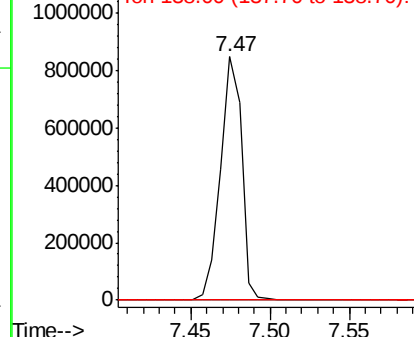
82 100

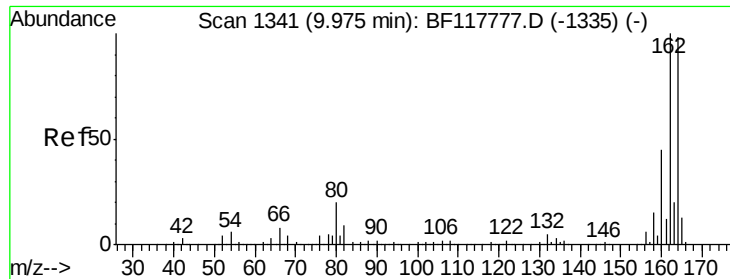
95 0.0 5.8 8.8#

138 0.0 16.5 24.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

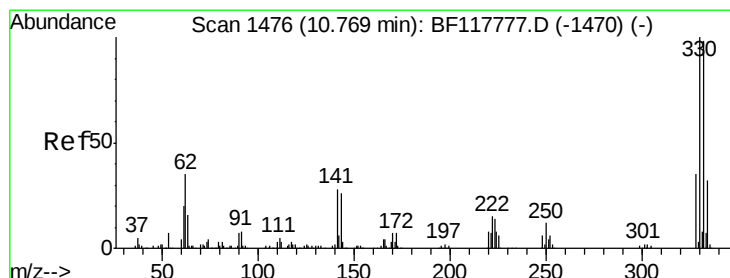
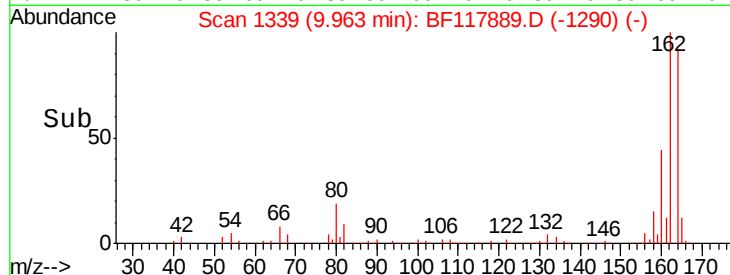
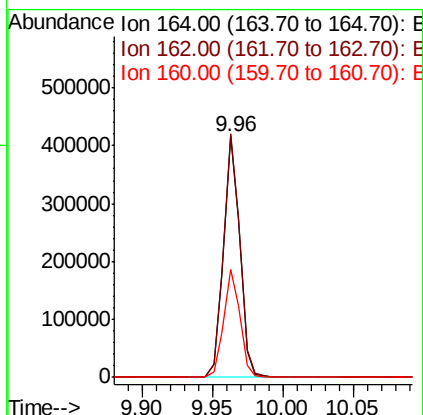
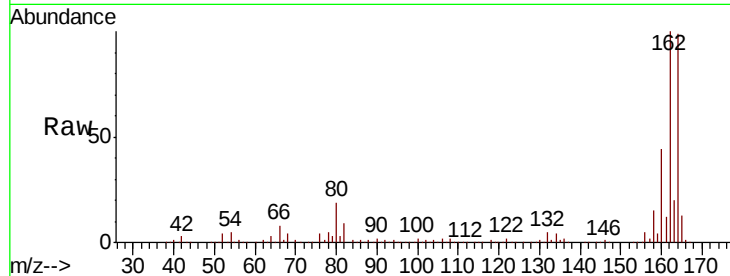




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

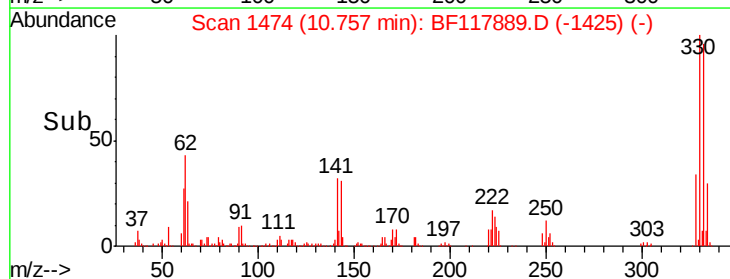
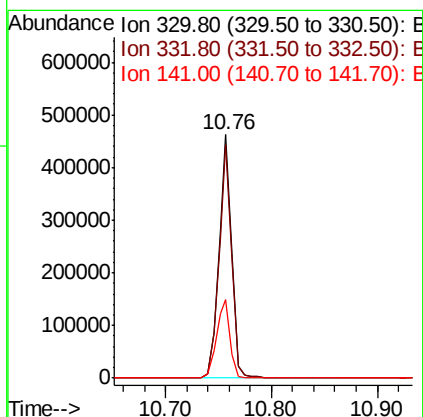
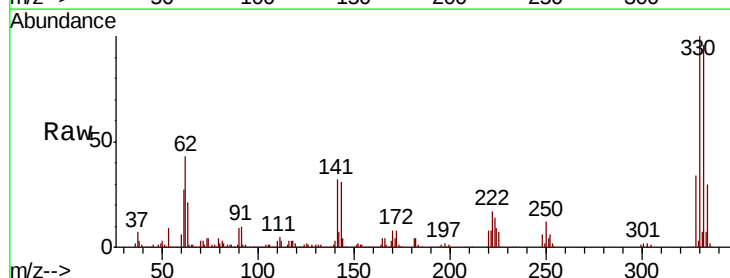
Instrument :
BNA_F
ClientSampleId :

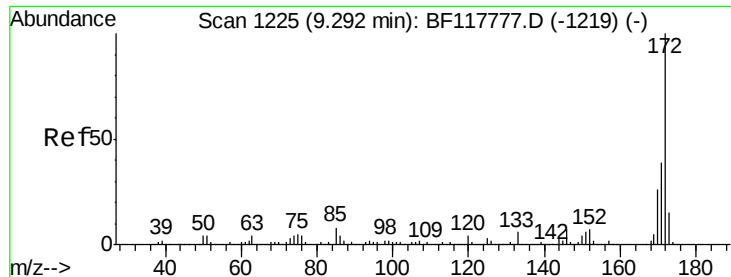
Tot Ion:164 Resp: 333739
Ion Ratio Lower Upper
164 100
162 101.1 81.3 121.9
160 44.6 36.6 55.0



#42
2,4,6-Tribromophenol
Concen: 111.674 ng
RT: 10.76 min Scan# 1474
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion:330 Resp: 394574
Ion Ratio Lower Upper
330 100
332 95.8 76.7 115.1
141 34.2 27.7 41.5

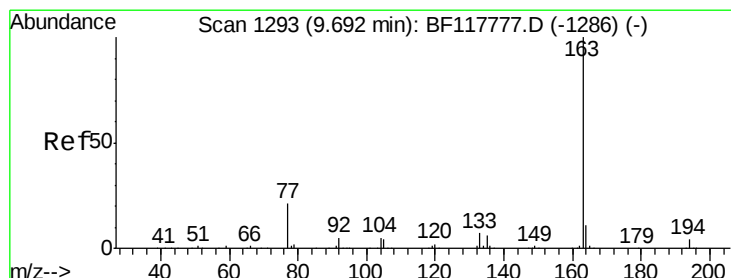
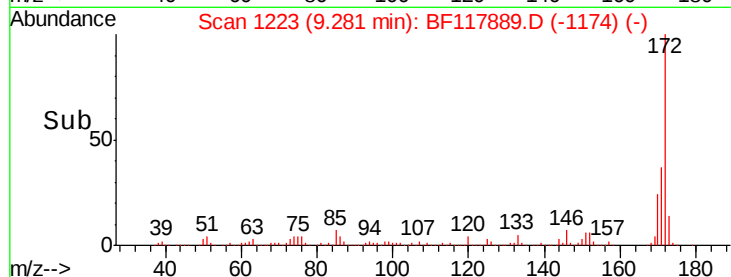
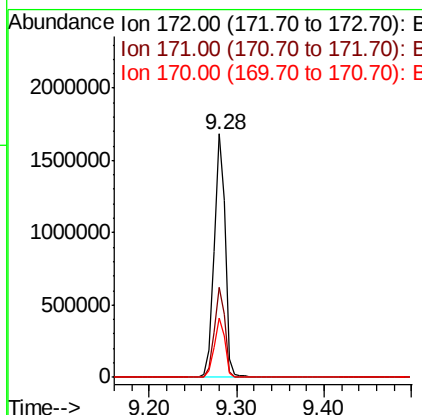
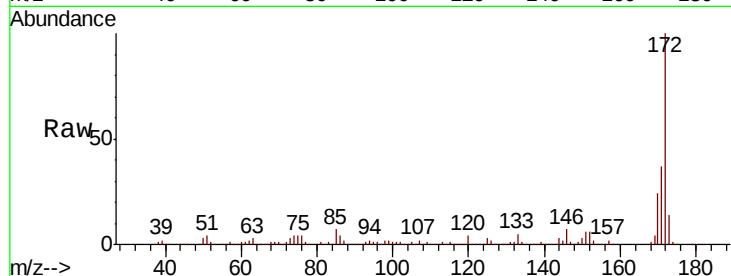




#45
2-Fluorobiphenyl
Concen: 79.504 ng
RT: 9.28 min Scan# 1223
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

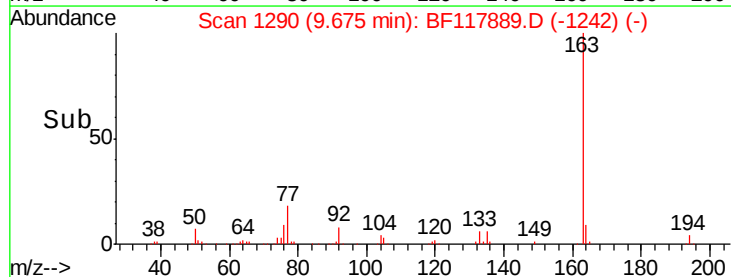
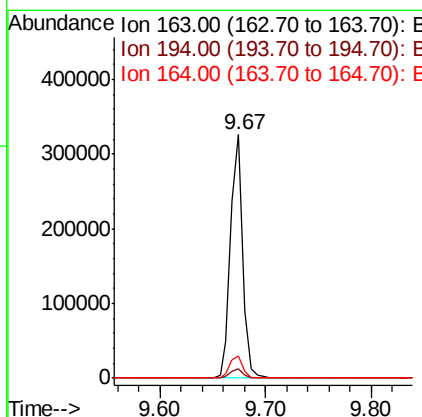
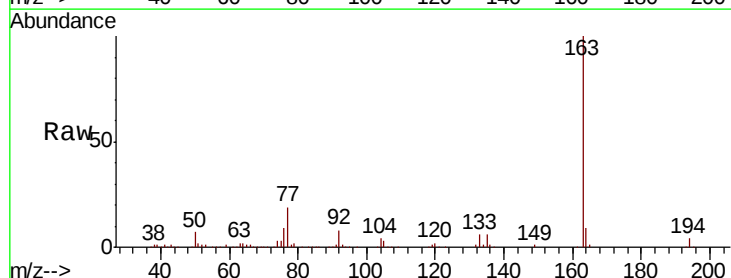
Instrument :
BNA_F
ClientSampleId :

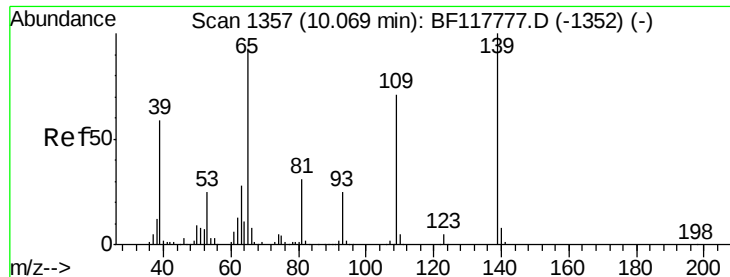
Tot Ion:172 Resp: 1478987
Ion Ratio Lower Upper
172 100
171 37.0 30.9 46.3
170 24.5 21.0 31.4



#50
Dimethylphthalate
Concen: 11.000 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.02 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion:163 Resp: 257442
Ion Ratio Lower Upper
163 100
194 3.9 3.3 4.9
164 9.4 8.7 13.1





#56

4-Nitrophenol

Concen: 4.155 ng

RT: 10.17 min Scan# 1374

Delta R.T. 0.10 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

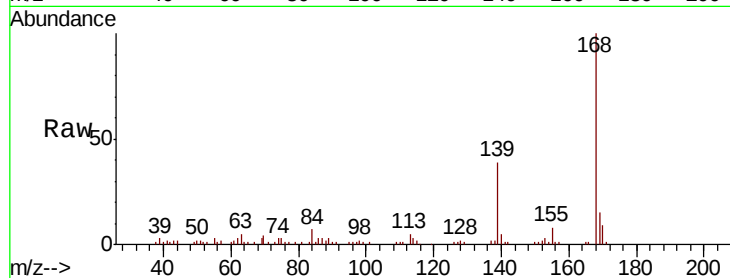
Tot Ion:139 Resp: 18980

Ion Ratio Lower Upper

139 100

109 2.0 50.8 90.8#

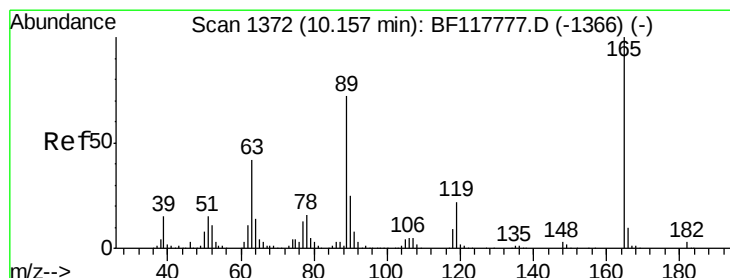
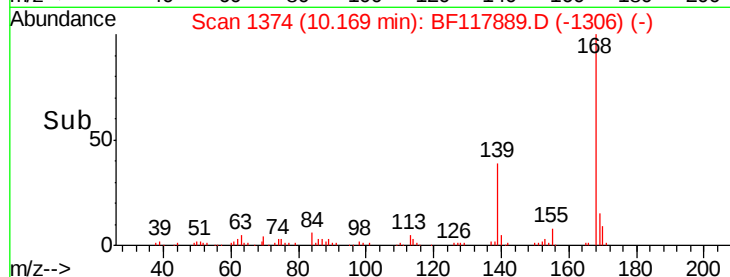
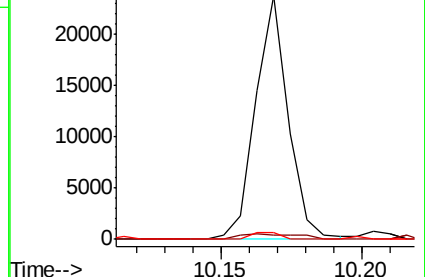
65 2.7 73.6 113.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.809 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.19 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Tgt Ion:165 Resp: 44301

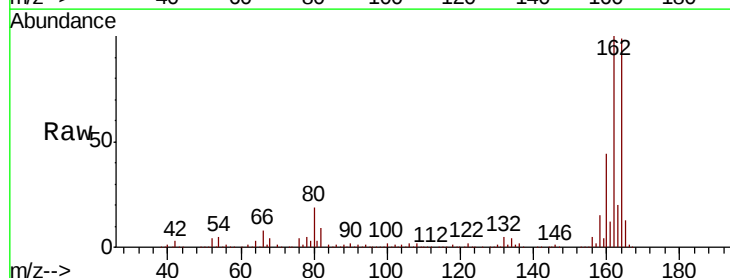
Ion Ratio Lower Upper

165 100

63 1.1 33.7 50.5#

89 1.4 57.3 85.9#

182 0.0 2.3 3.5#

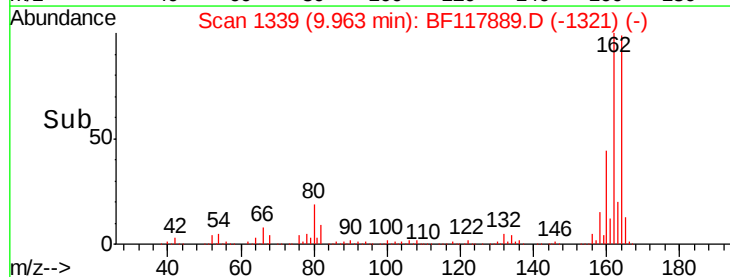
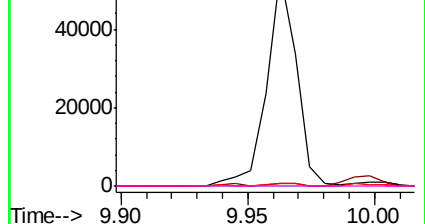


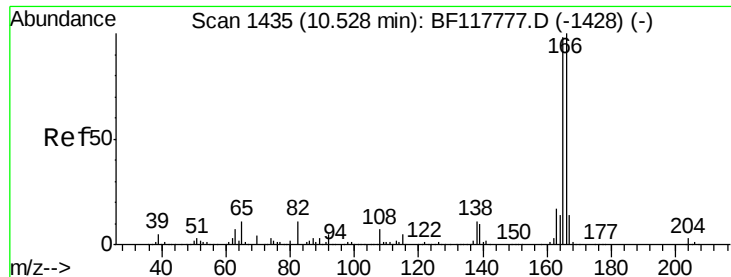
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 2.399 ng

RT: 10.52 min Scan# 1433

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

Tot Ion:166 Resp: 48964

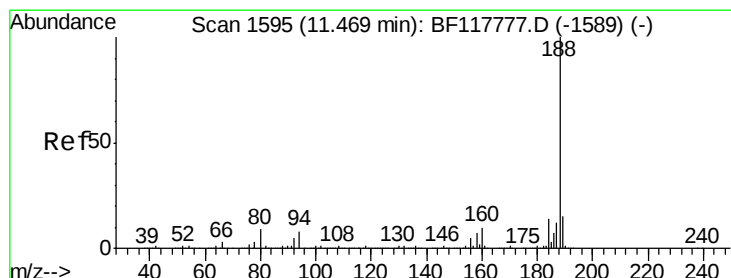
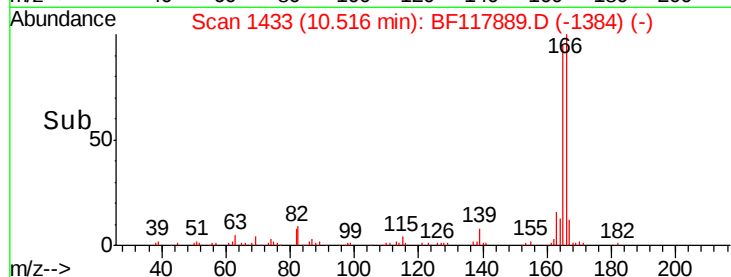
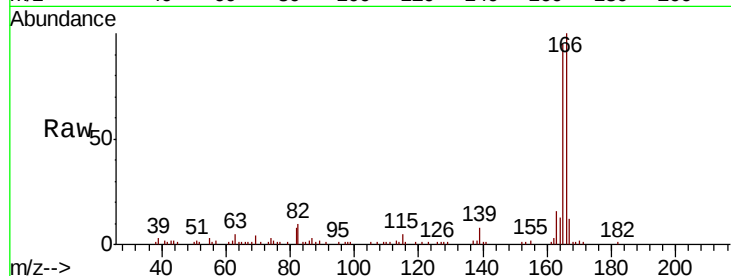
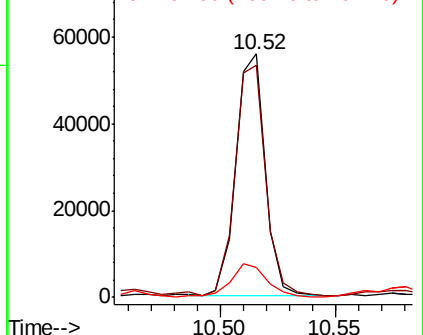
Ion	Ratio	Lower	Upper
166	100		
165	95.4	78.4	117.6
167	12.3	11.0	16.4

Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Tgt Ion:188 Resp: 635891

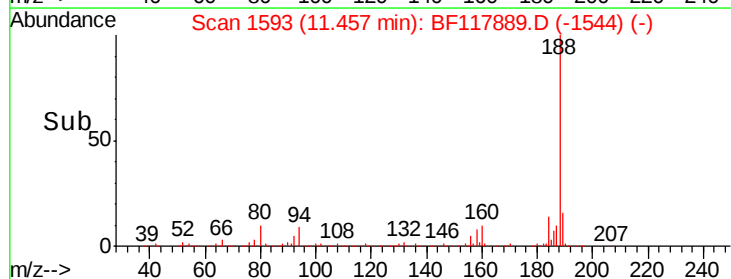
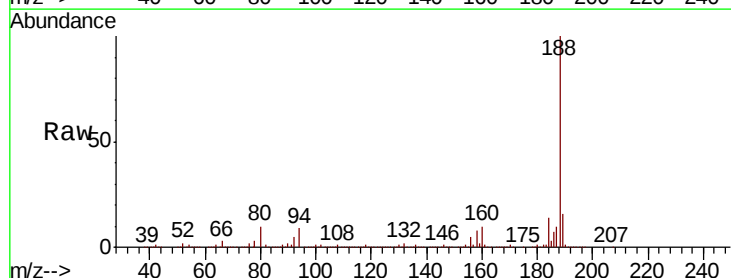
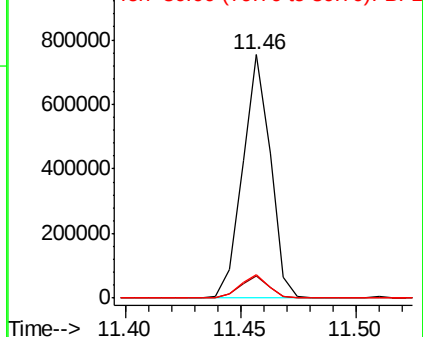
Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.6	7.2	10.8

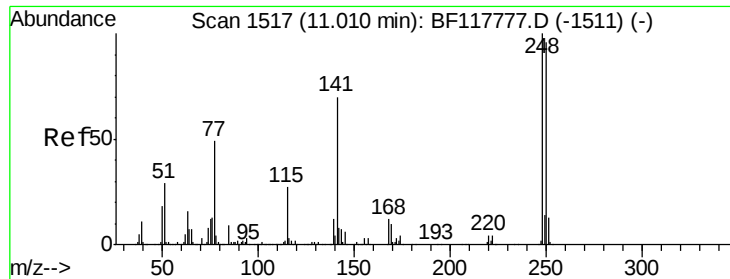
Abundance

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

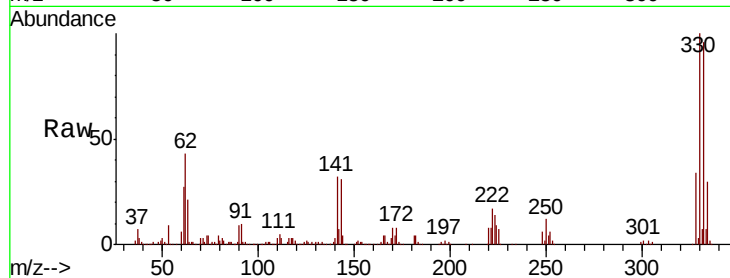




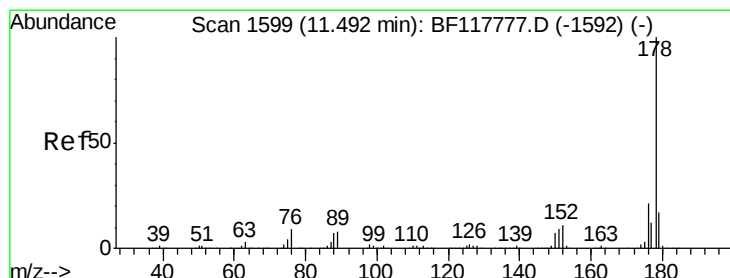
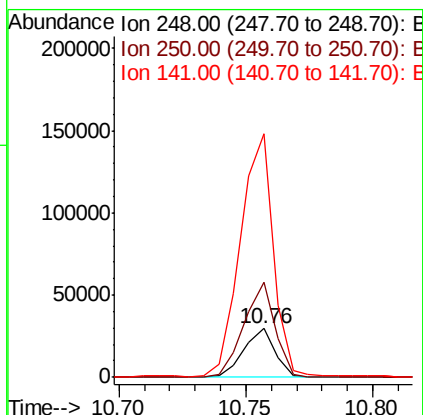
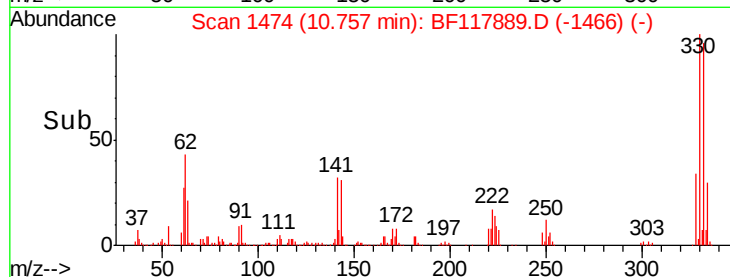
#67
 4-Bromophenyl-phenylether
 Concen: 3.689 ng
 RT: 10.76 min Scan# 1474
 Delta R.T. -0.25 min
 Lab File: BF117889.D
 Acq: 20 Nov 2019 13:31

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:248 Resp: 25308
 Ion Ratio Lower Upper
 248 100
 250 193.3 76.6 115.0#
 141 497.2 55.9 83.9#

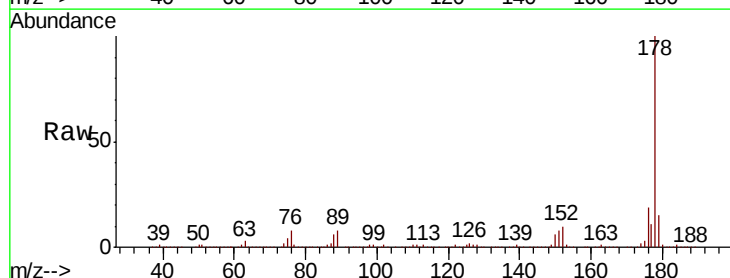


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

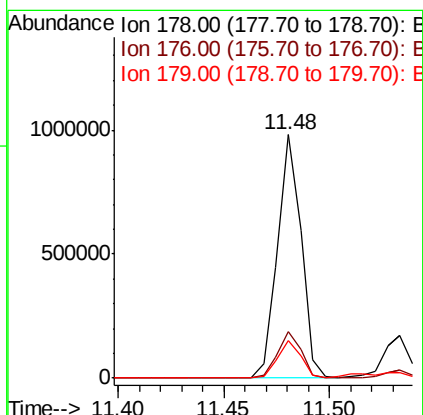
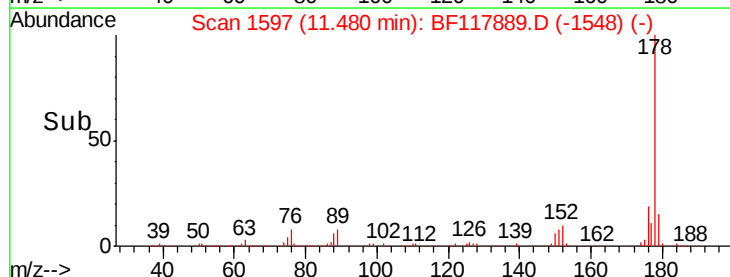


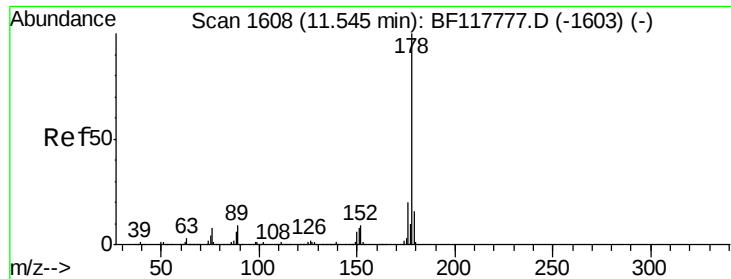
#71
 Phenanthrene
 Concen: 23.910 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF117889.D
 Acq: 20 Nov 2019 13:31

Tgt Ion:178 Resp: 764399
 Ion Ratio Lower Upper
 178 100
 176 19.1 16.6 25.0
 179 15.4 13.2 19.8



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





#72

Anthracene

Concen: 4.522 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

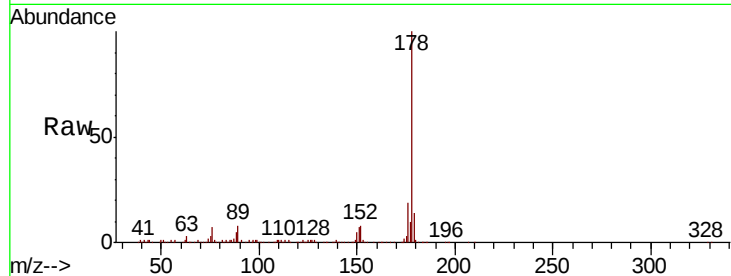
Tot Ion:178 Resp: 143333

Ion Ratio Lower Upper

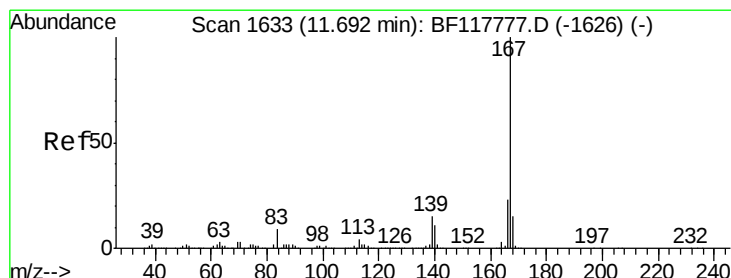
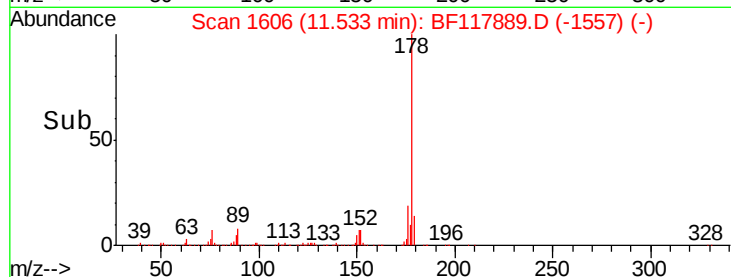
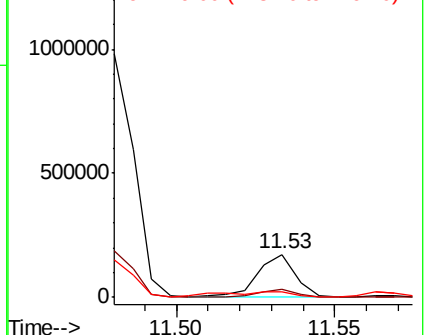
178 100

176 18.7 16.1 24.1

179 14.4 13.0 19.4



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



#73

Carbazole

Concen: 2.606 ng

RT: 11.69 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

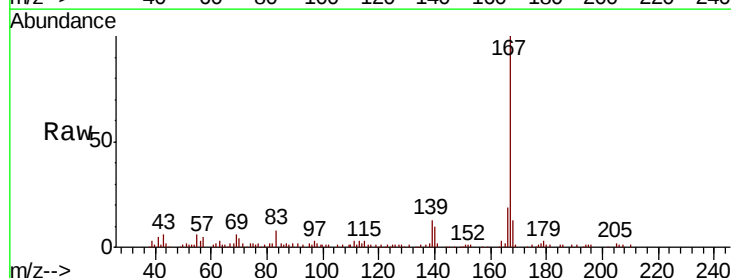
Tgt Ion:167 Resp: 72175

Ion Ratio Lower Upper

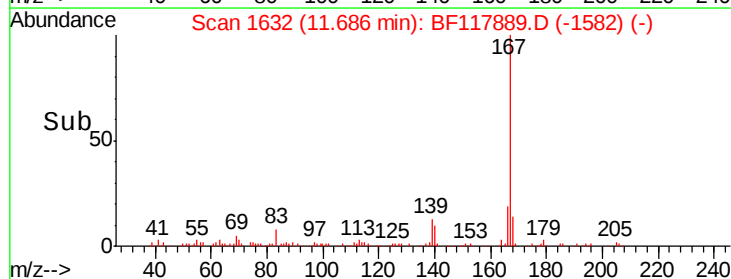
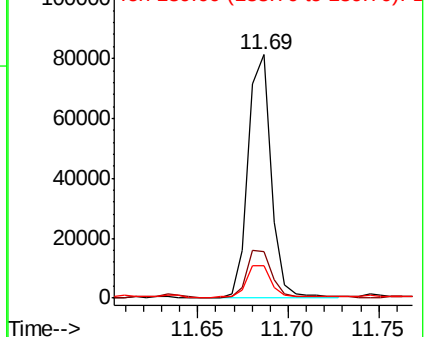
167 100

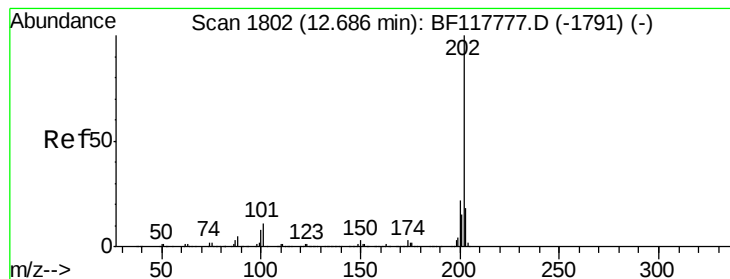
166 19.0 18.0 27.0

139 13.3 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 19.923 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

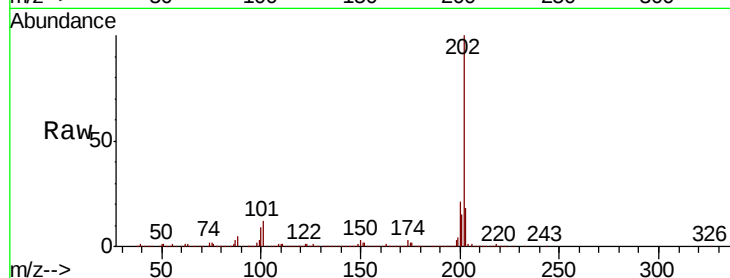
Tot Ion:202 Resp: 702106

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.1

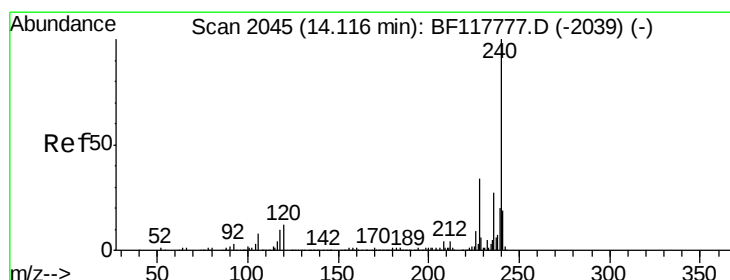
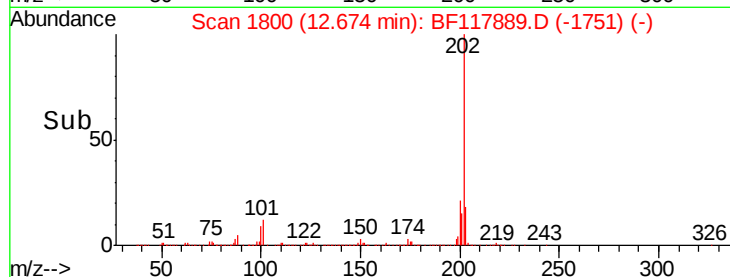
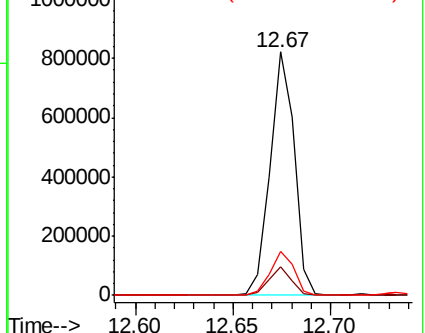
203 18.1 0.0 38.2



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: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

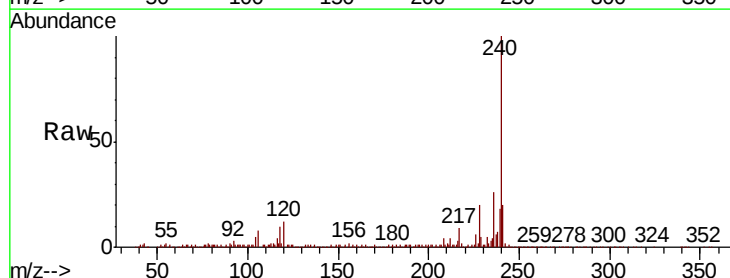
Tgt Ion:240 Resp: 374981

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

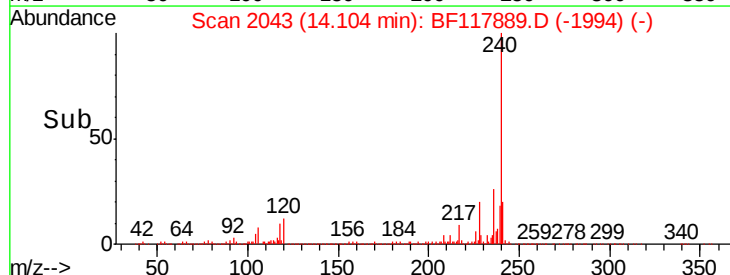
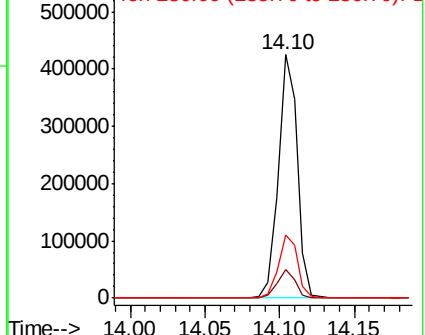
236 26.1 21.3 31.9

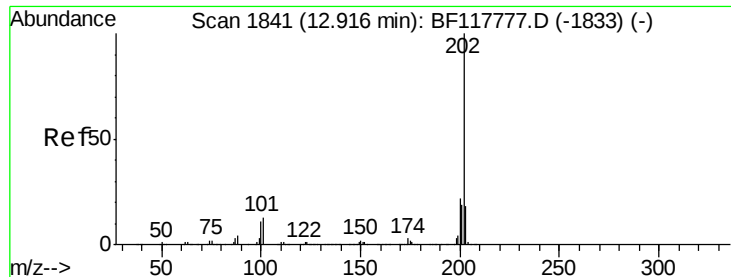


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 16.196 ng

RT: 12.90 min Scan# 1839

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

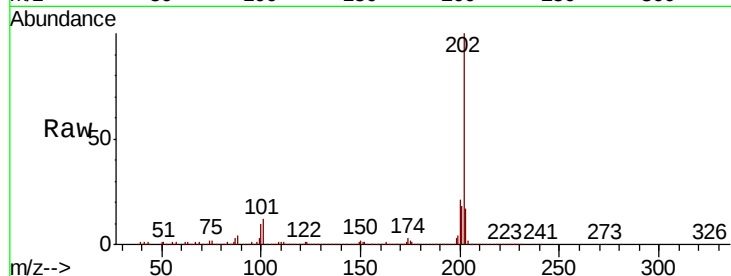
Tot Ion:202 Resp: 490794

Ion Ratio Lower Upper

202 100

200 21.0 17.8 26.8

203 17.4 14.6 22.0

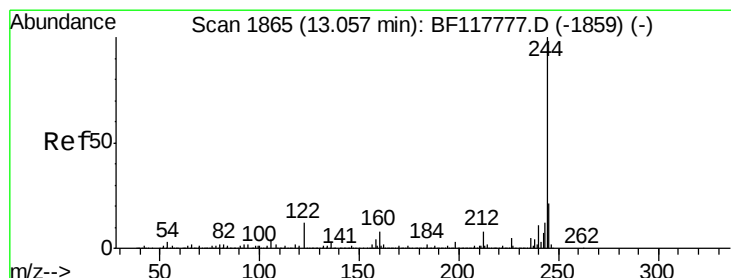
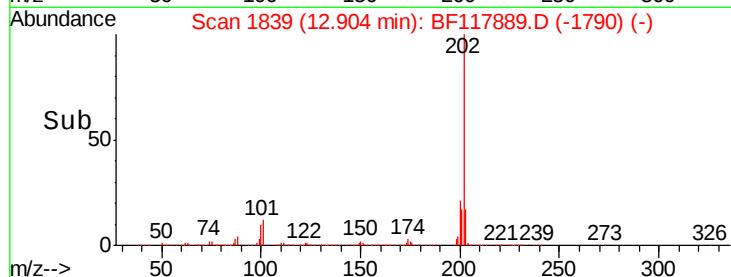
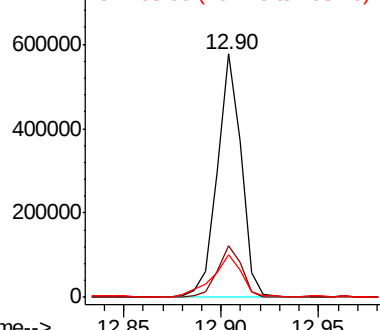


Abundance

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: 64.121 ng

RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

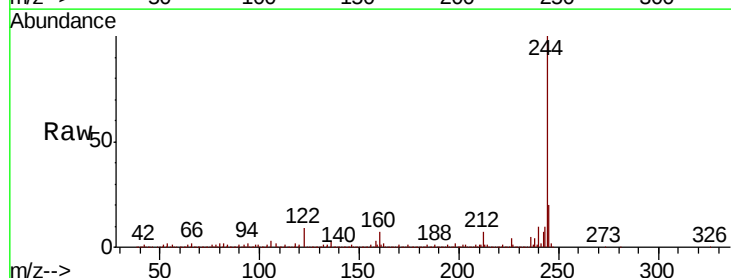
Tgt Ion:244 Resp: 1315605

Ion Ratio Lower Upper

244 100

212 7.2 6.3 9.5

122 9.5 9.4 14.2

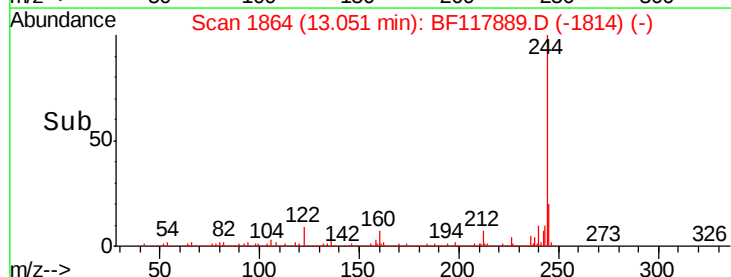
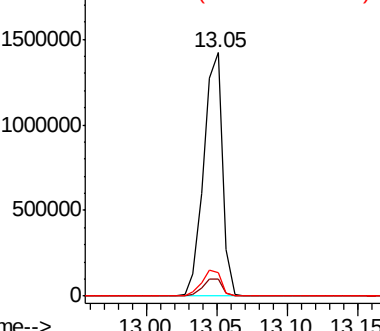


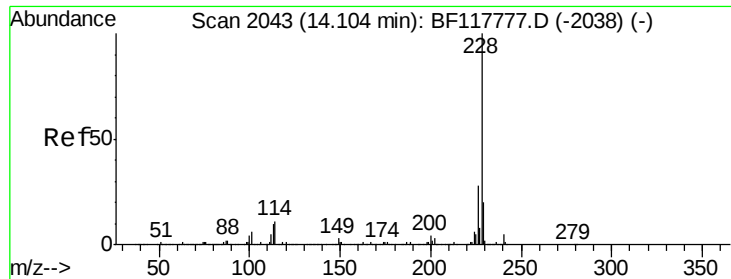
Abundance

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

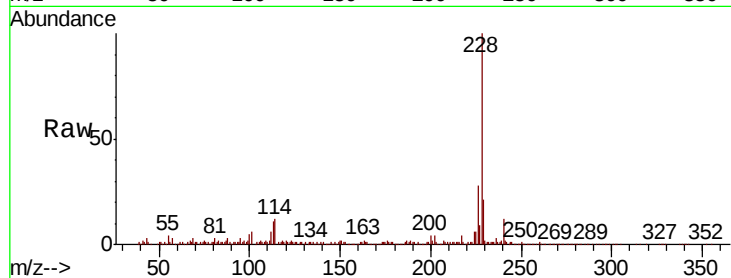




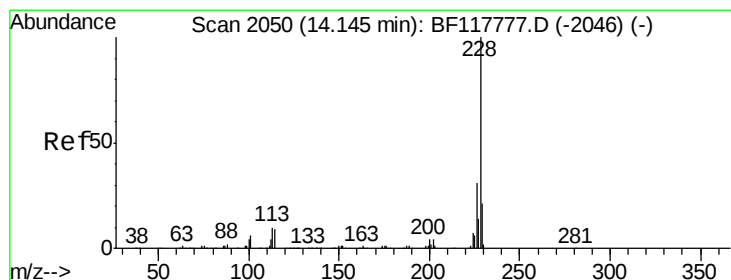
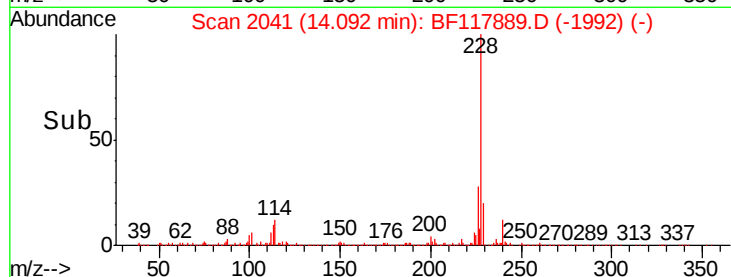
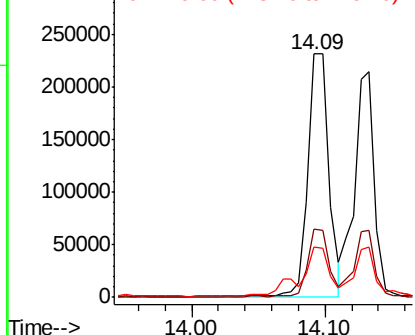
#81
Benzo(a)anthracene
Concen: 9.964 ng
RT: 14.09 min Scan# 2041
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:228 Resp: 246907
Ion Ratio Lower Upper
228 100
226 28.2 22.2 33.2
229 20.9 15.9 23.9

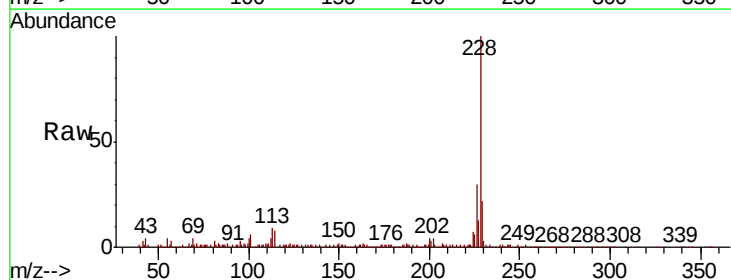


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

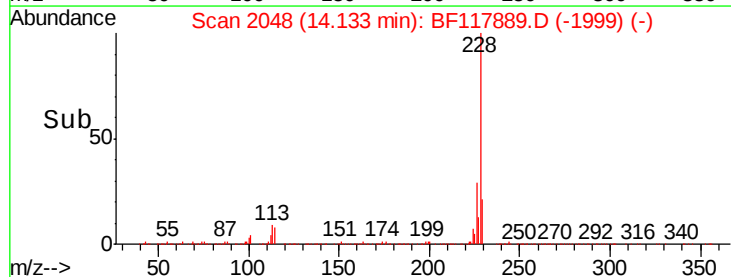
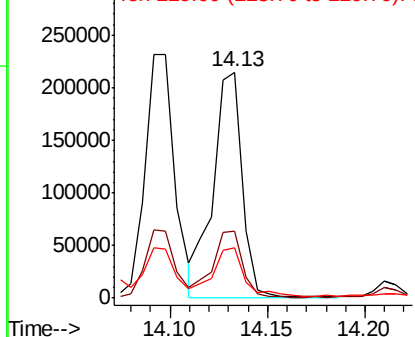


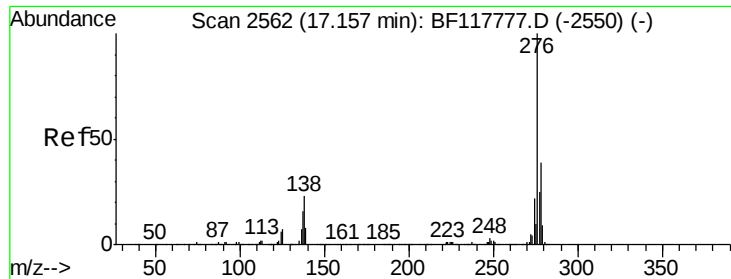
#83
Chrysene
Concen: 9.252 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion:228 Resp: 222156
Ion Ratio Lower Upper
228 100
226 29.8 25.0 37.4
229 22.2 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 4.402 ng

RT: 17.14 min Scan# 2559

Delta R.T. -0.02 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

Instrument :

BNA_F

ClientSampleId :

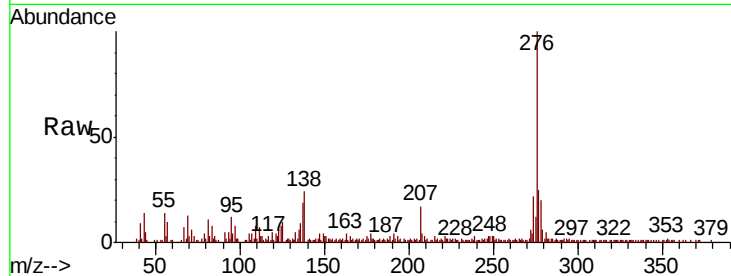
Tot Ion:276 Resp: 89954

Ion Ratio Lower Upper

276 100

138 22.8 20.9 31.3

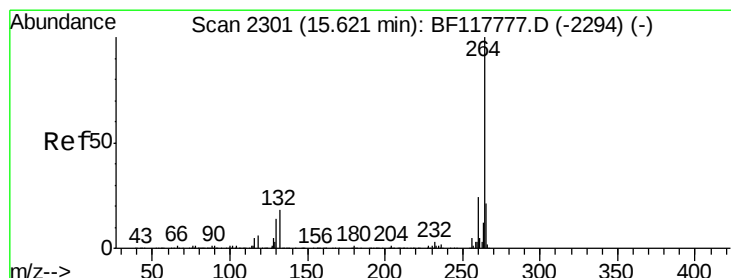
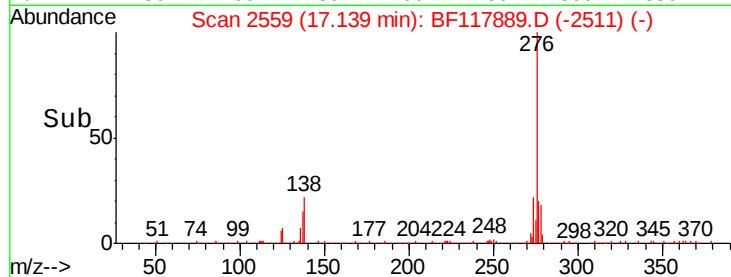
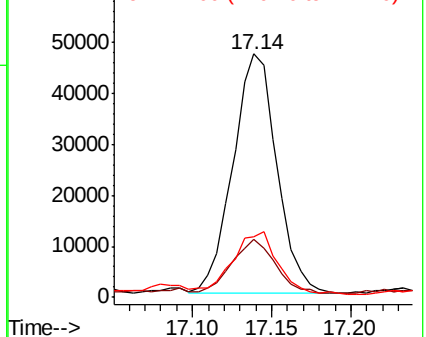
277 26.5 20.3 30.5



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: 15.62 min Scan# 2300

Delta R.T. -0.01 min

Lab File: BF117889.D

Acq: 20 Nov 2019 13:31

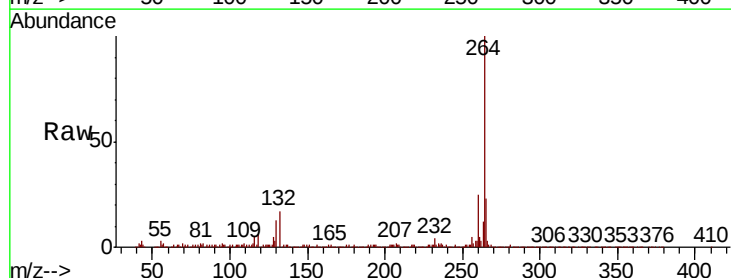
Tgt Ion:264 Resp: 423566

Ion Ratio Lower Upper

264 100

260 24.8 19.4 29.0

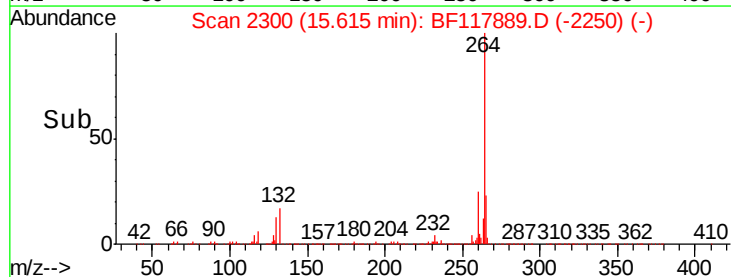
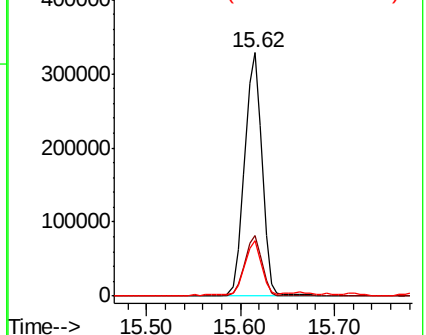
265 23.0 17.1 25.7

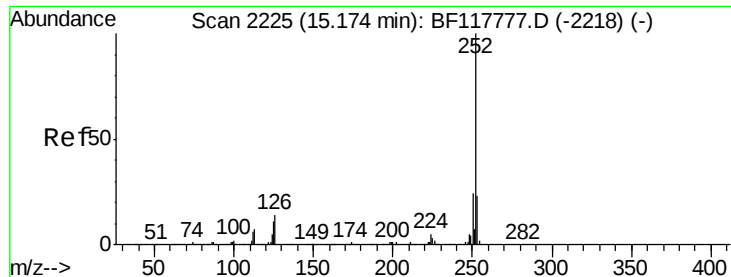


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

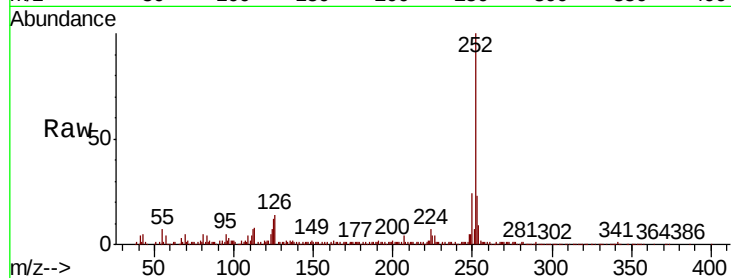




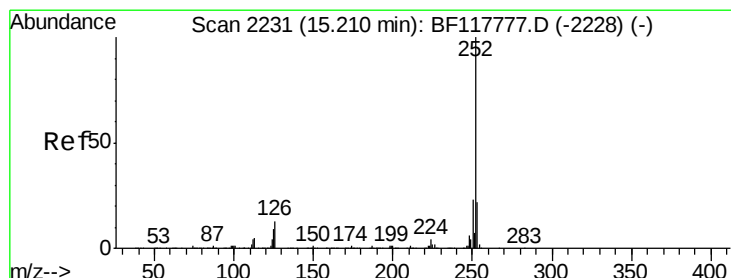
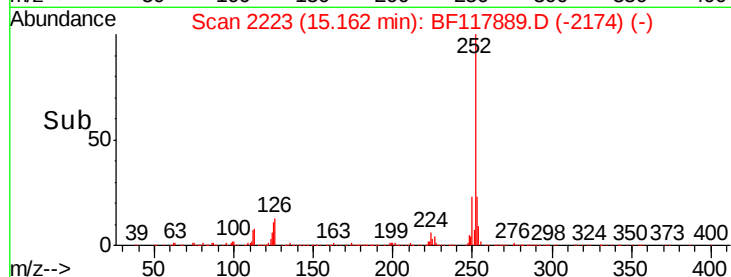
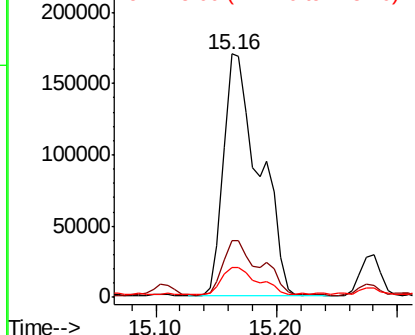
#88
Benzo(b)fluoranthene
Concen: 12.670 ng
RT: 15.16 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	12.4	8.6	13.0

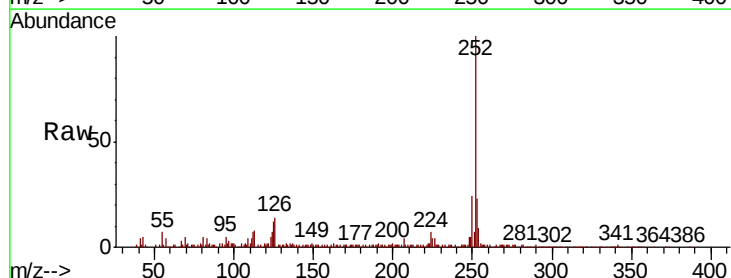


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

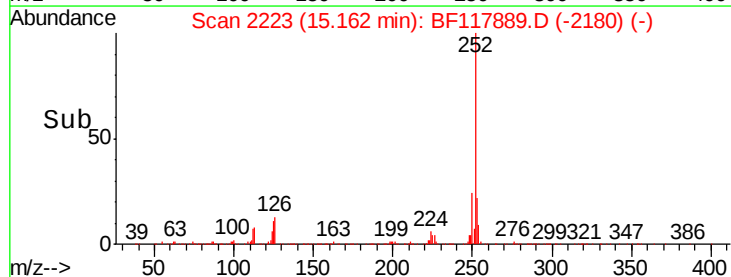
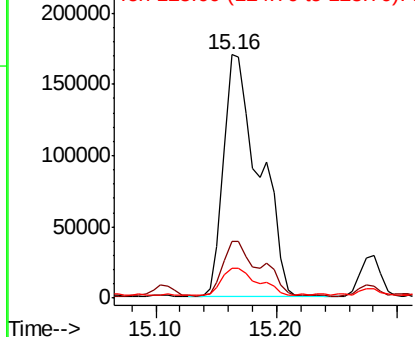


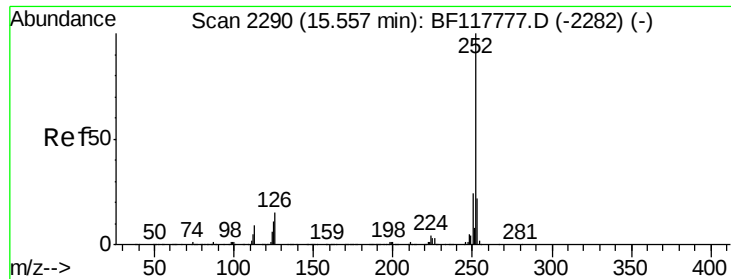
#89
Benzo(k)fluoranthene
Concen: 13.447 ng
RT: 15.16 min Scan# 2223
Delta R.T. -0.05 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	12.4	7.9	11.9



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

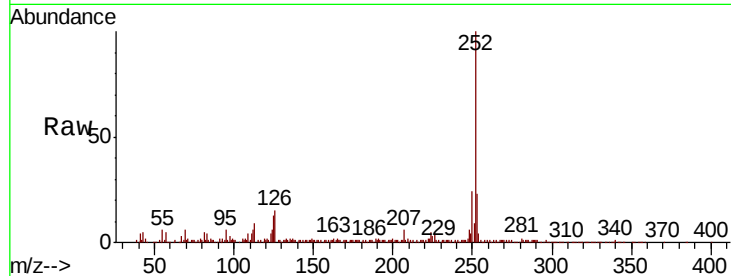




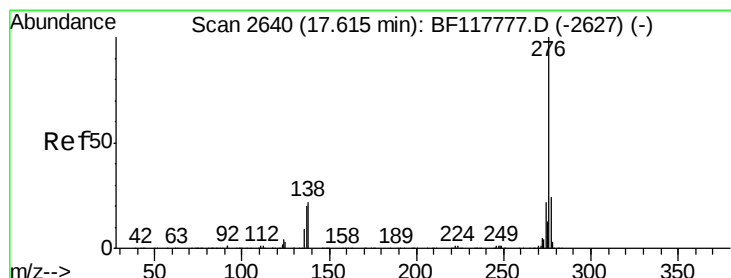
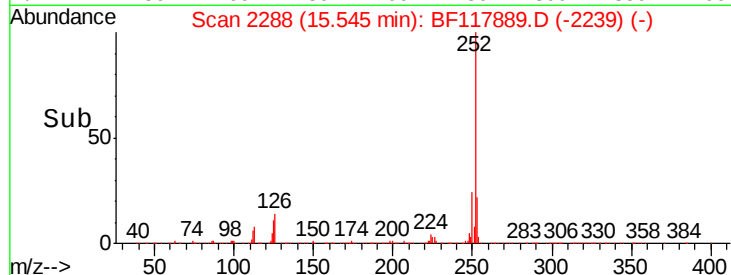
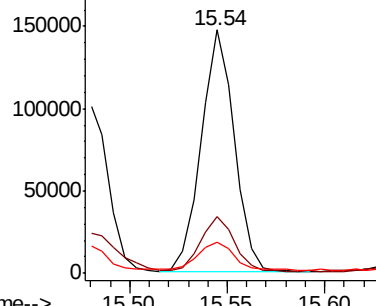
#90
Benzo(a)pyrene
Concen: 7.144 ng
RT: 15.54 min Scan# 2288
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 172874
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 12.6 9.2 13.8

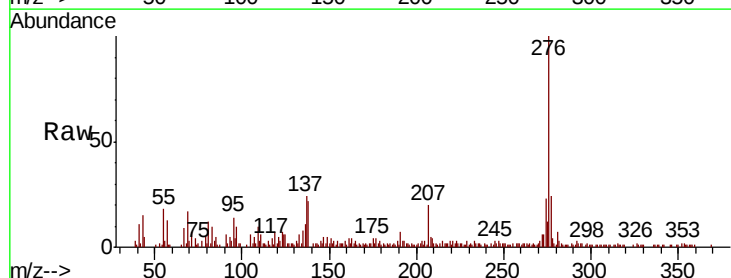


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.690 ng
RT: 17.60 min Scan# 2638
Delta R.T. -0.01 min
Lab File: BF117889.D
Acq: 20 Nov 2019 13:31

Tgt Ion:276 Resp: 76555
Ion Ratio Lower Upper
276 100
277 23.9 18.9 28.3
138 22.3 17.4 26.2



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

