

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120919\
 Data File : BF118156.D
 Acq On : 9 Dec 2019 20:44
 Operator : JU
 Sample : K6117-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 10 00:56:09 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	107152	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	402768	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	191424	20.00	ng	0.00
64) Phenanthrene-d10	11.40	188	297646	20.00	ng	0.00
76) Chrysene-d12	14.06	240	225895	20.00	ng	0.00
87) Perylene-d12	15.56	264	279557	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	546974	89.41	ng	0.00
7) Phenol-d6	6.50	99	693124	93.67	ng	0.00
23) Nitrobenzene-d5	7.43	82	408542	57.06	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	168771	72.58	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	842940	67.01	ng	0.00
79) Terphenyl-d14	13.00	244	722935	55.03	ng	0.00

Target Compounds

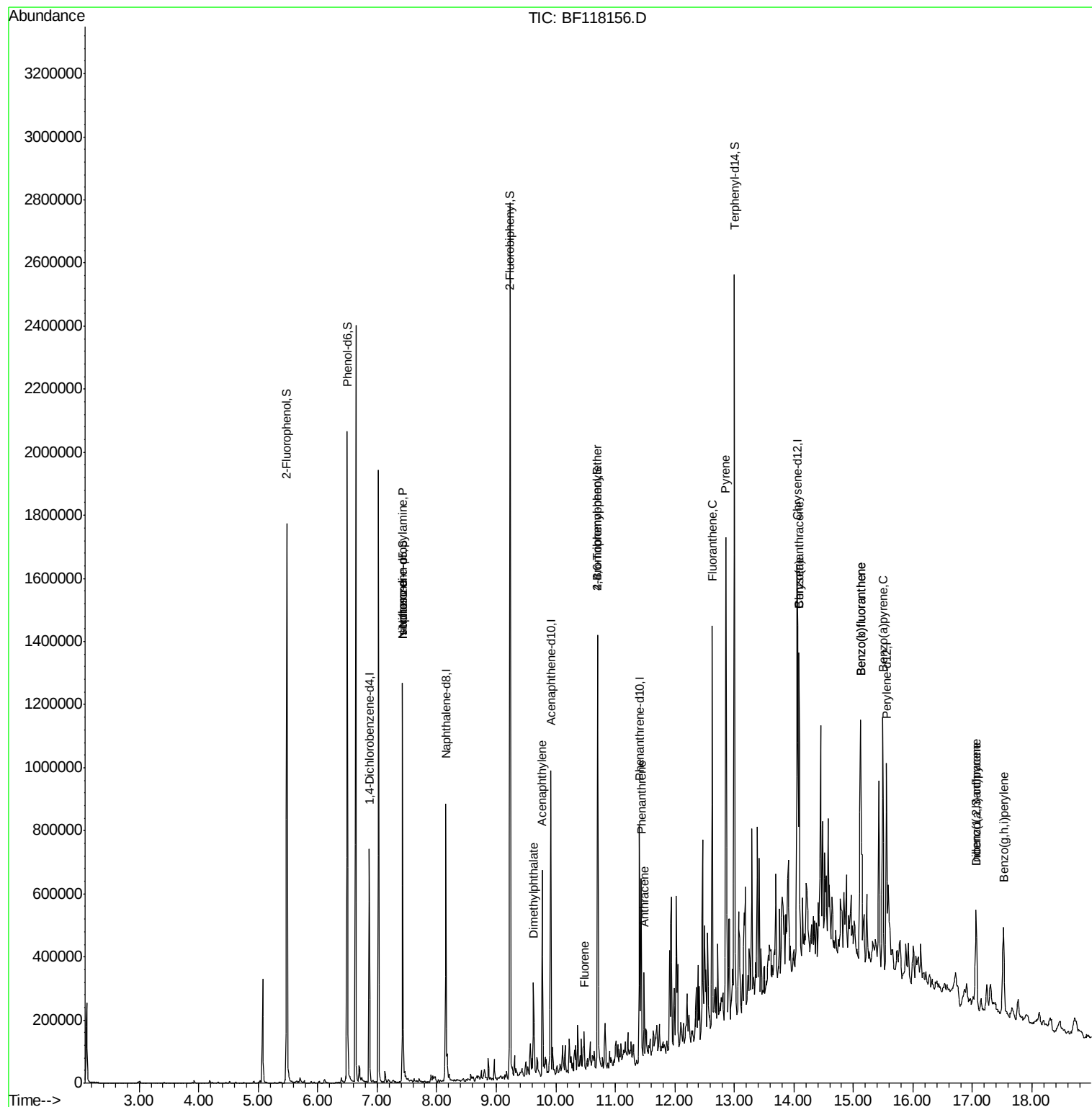
						Qvalue
9) Benzaldehyde	6.43	77	675	Below Cal	#	59
19) n-Nitroso-di-n-propylamine	7.43	70	54438	12.107 ng	#	78
25) Isophorone	7.43	82	408537	33.662 ng	#	62
49) Acenaphthylene	9.77	152	257921	14.399 ng		100
50) Dimethylphthalate	9.62	163	82828	5.858 ng	#	98
58) Fluorene	10.47	166	32128	2.524 ng	#	54
67) 4-Bromophenyl-phenylether	10.70	248	9910	2.917 ng	#	1
71) Phenanthrene	11.43	178	220338	13.926 ng		98
72) Anthracene	11.48	178	114884	7.278 ng		97
75) Fluoranthene	12.63	202	411960	25.466 ng		98
78) Pyrene	12.86	202	667341	37.488 ng		97
81) Benzo(a)anthracene	14.09	228	366412	23.458 ng		94
83) Chrysene	14.09	228	366412	24.558 ng		97
86) Indeno(1,2,3-cd)pyrene	17.06	276	205226	16.347 ng		95
88) Benzo(b)fluoranthene	15.12	252	558957	30.232 ng		98
89) Benzo(k)fluoranthene	15.12	252	558957	31.470 ng	#	96
90) Benzo(a)pyrene	15.50	252	398188	24.385 ng		98
91) Dibenzo(a,h)anthracene	17.07	278	62813	4.485 ng	#	85
92) Benzo(a,h,i)perylene	17.52	276	222019	16.496 ng		97

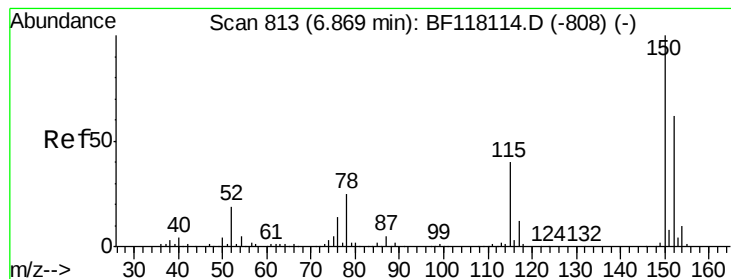
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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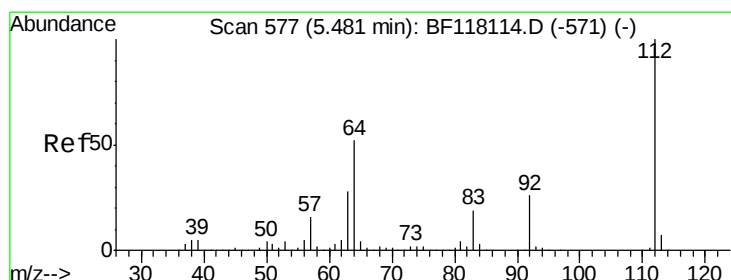
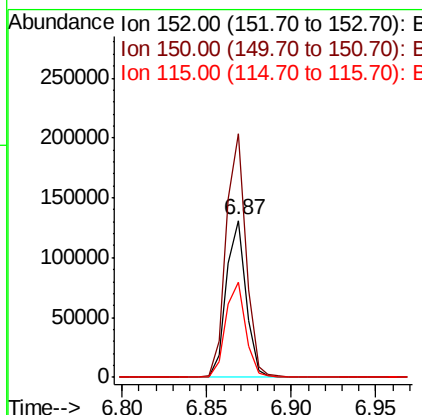
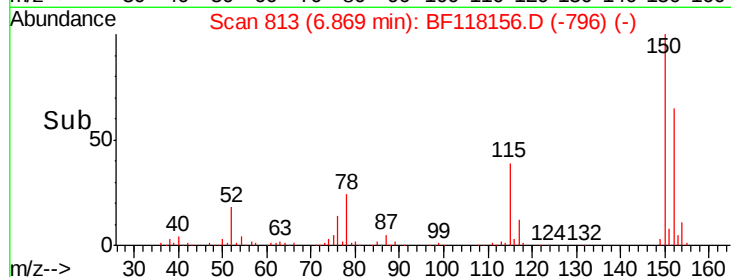
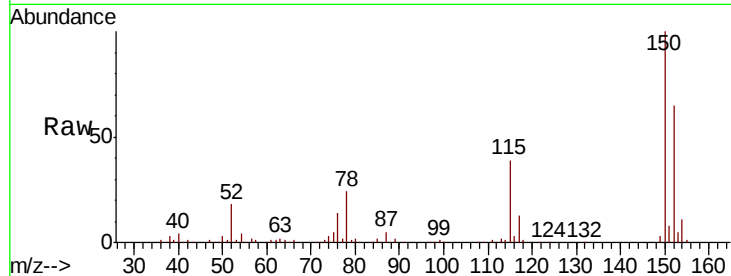


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.00 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Instrument :
BNA_F
ClientSampled :

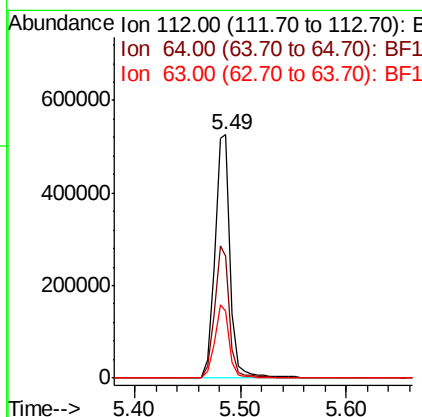
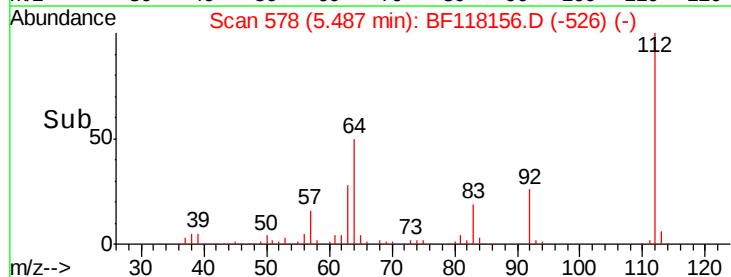
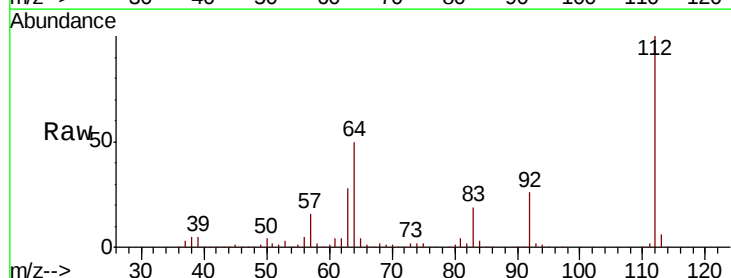
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.9	128.3	192.5
115	60.8	51.1	76.7

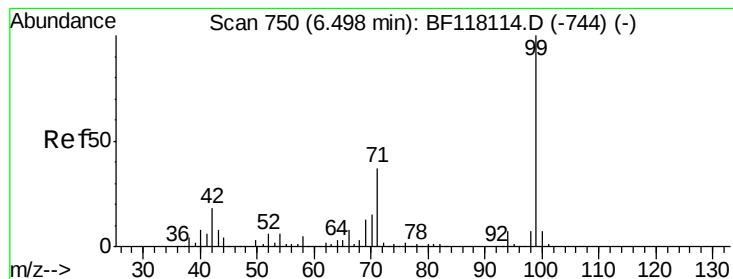


#5

2-Fluorophenol
Concen: 89.406 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	41.3	61.9
63	27.7	22.4	33.6





#7

Phenol-d6

Concen: 93.669 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampled :

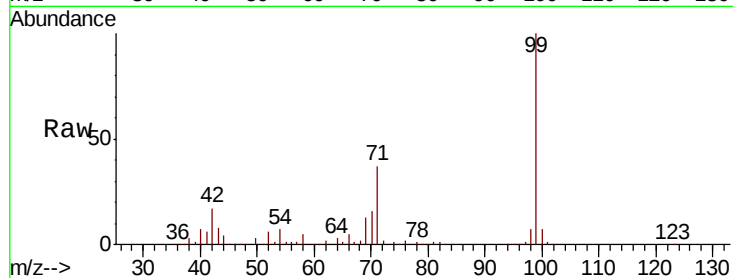
Tot Ion: 99 Resp: 693124

Ion Ratio Lower Upper

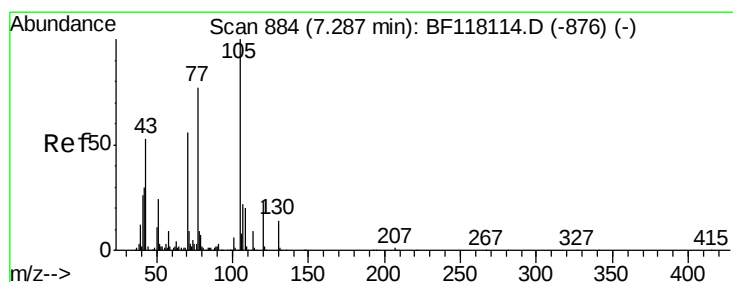
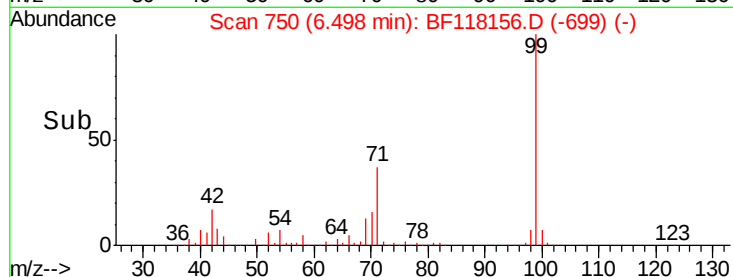
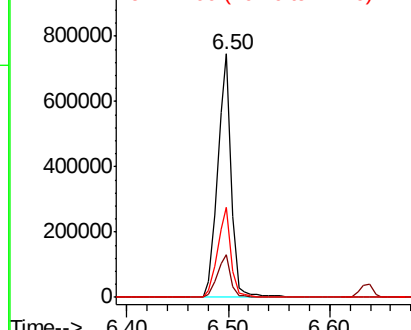
99 100

42 17.3 14.1 21.1

71 36.8 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: 12.107 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.14 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Tgt Ion: 70 Resp: 54438

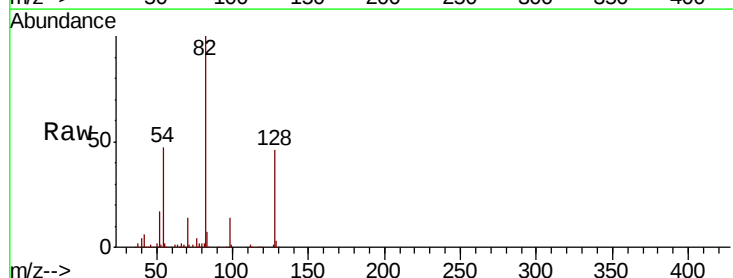
Ion Ratio Lower Upper

70 100

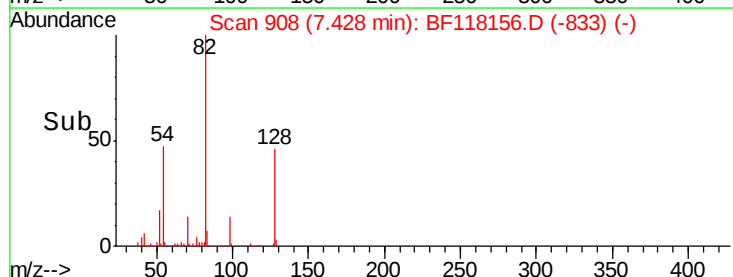
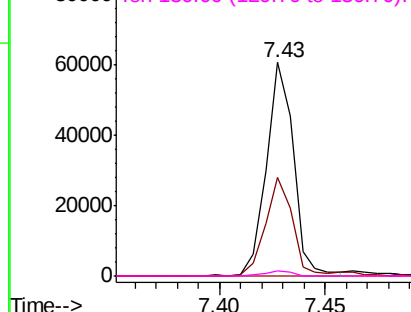
42 46.1 43.2 64.8

101 0.0 8.1 12.1#

130 2.1 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

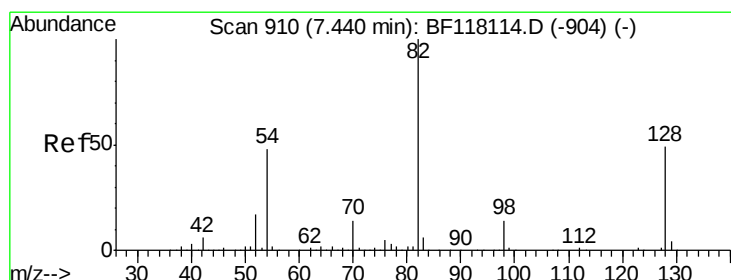
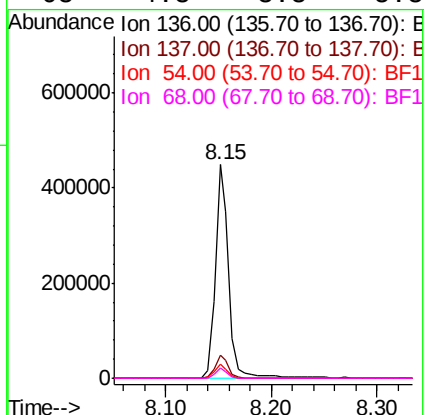
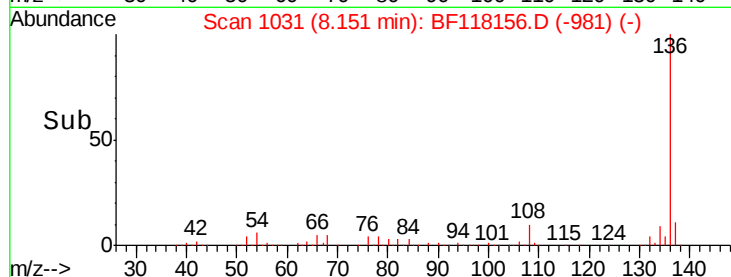
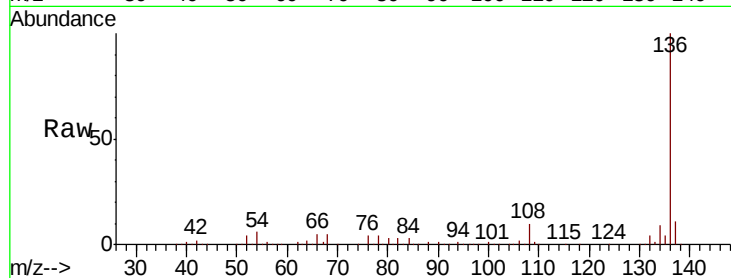




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

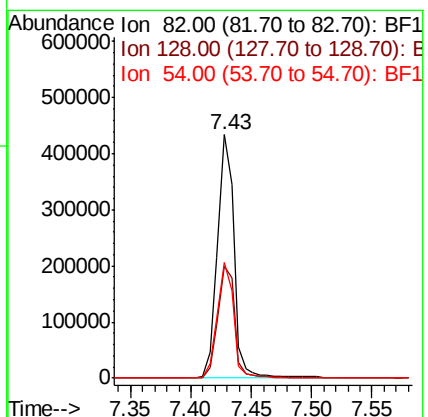
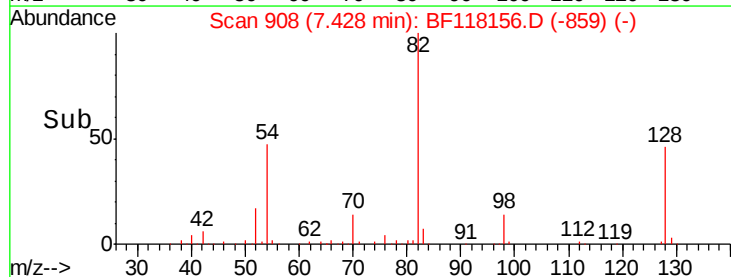
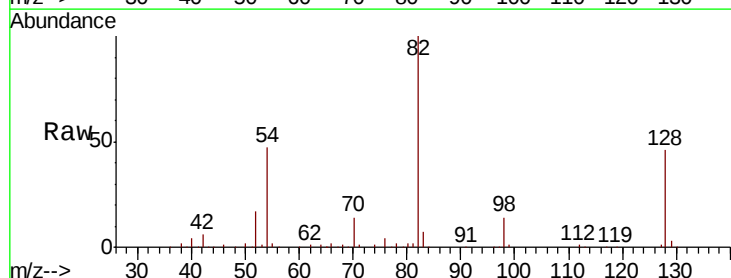
Instrument :
BNA_F
ClientSampleId :

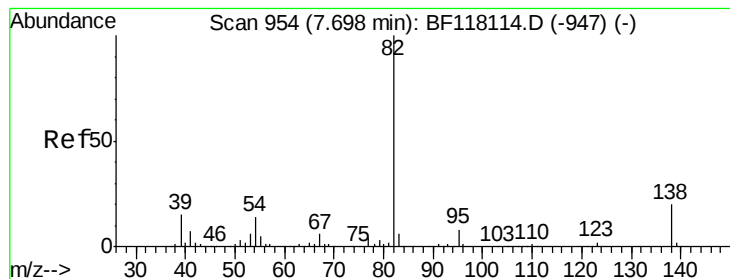
Tot Ion:136	Resp:	402768
Ion	Ratio	Lower Upper
136	100	
137	11.0	9.0 13.6
54	6.4	5.0 7.6
68	4.8	3.8 5.8



#23
Nitrobenzene-d5
Concen: 57.064 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Tgt Ion: 82	Resp:	408542
Ion	Ratio	Lower Upper
82	100	
128	46.0	39.1 58.7
54	47.3	38.2 57.2





#25

Isophorone

Concen: 33.662 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.27 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampled :

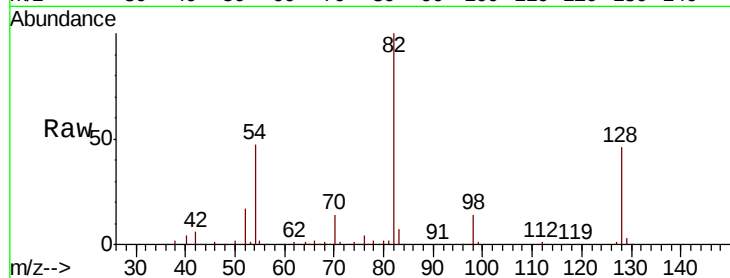
Tot Ion: 82 Resp: 408537

Ion Ratio Lower Upper

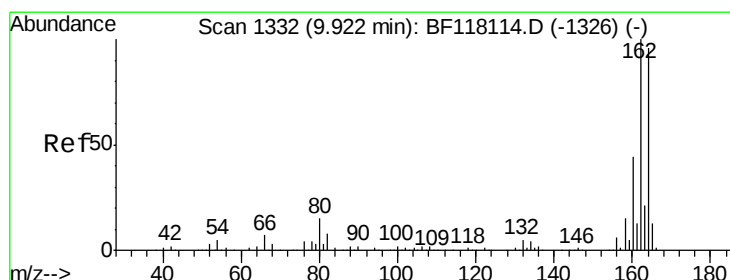
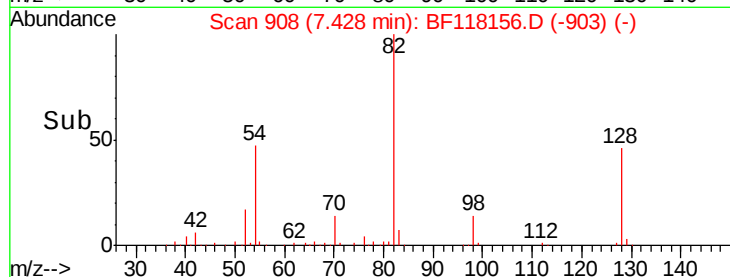
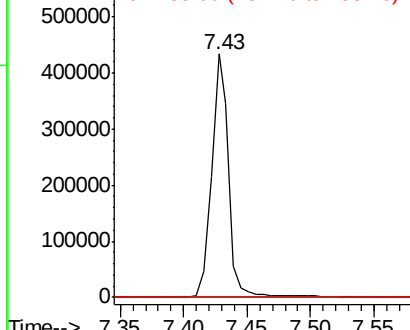
82 100

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: BF118156.D

Acq: 9 Dec 2019 20:44

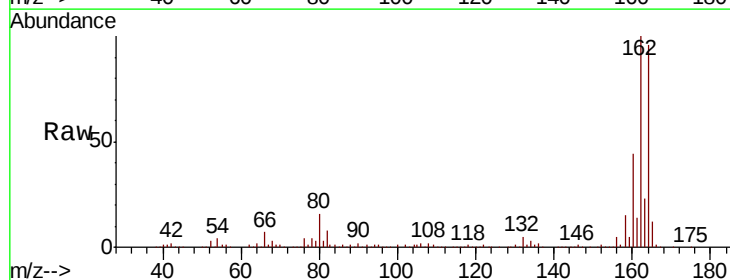
Tgt Ion: 164 Resp: 191424

Ion Ratio Lower Upper

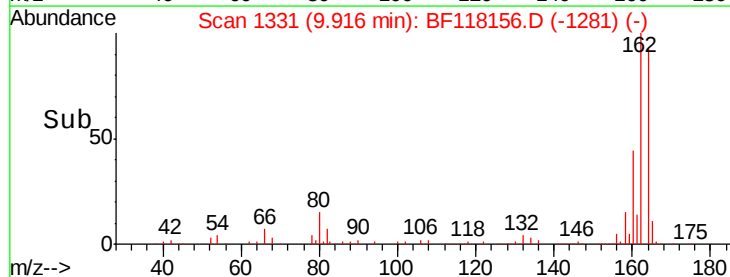
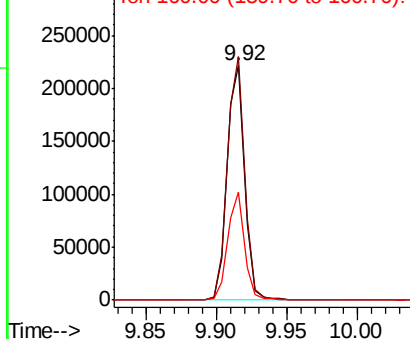
164 100

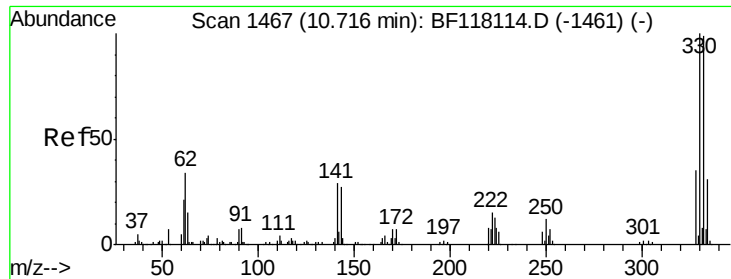
162 103.9 83.4 125.0

160 45.9 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: 72.576 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampleId :

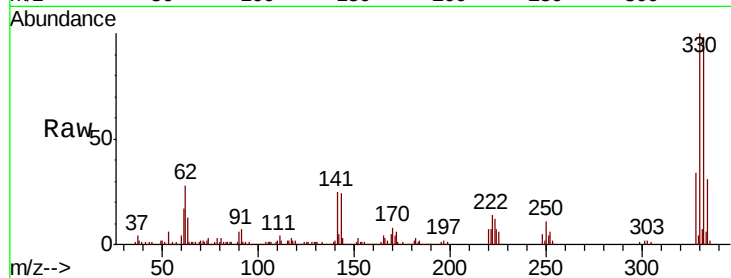
Tot Ion:330 Resp: 168771

Ion Ratio Lower Upper

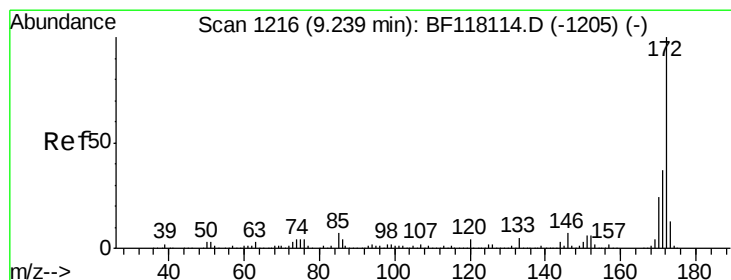
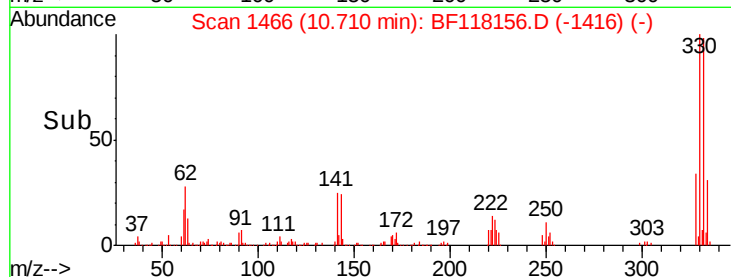
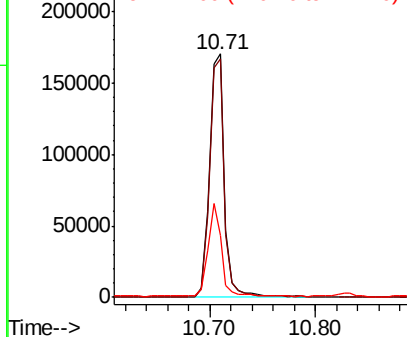
330 100

332 96.2 78.1 117.1

141 34.2 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: 67.006 ng

RT: 9.23 min Scan# 1215

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

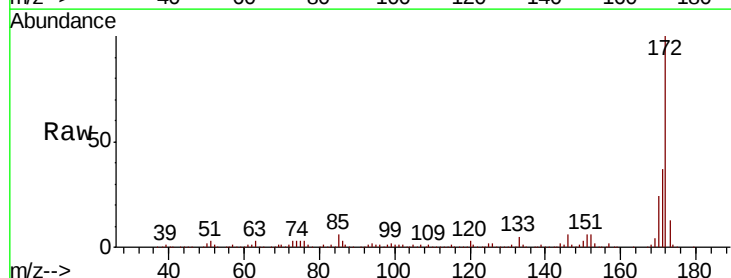
Tgt Ion:172 Resp: 842940

Ion Ratio Lower Upper

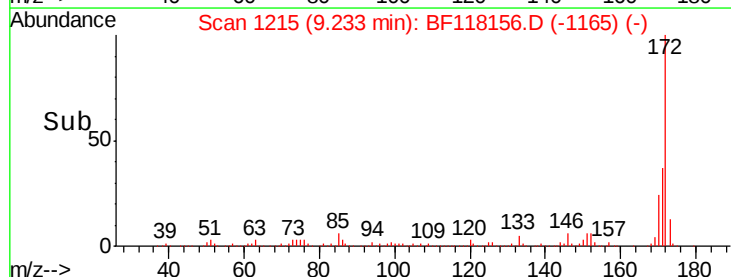
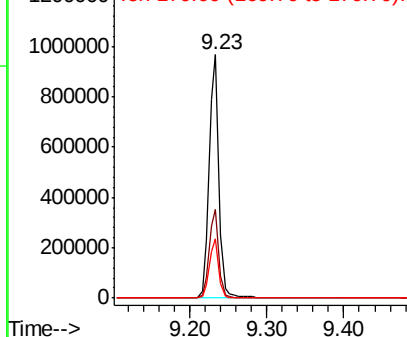
172 100

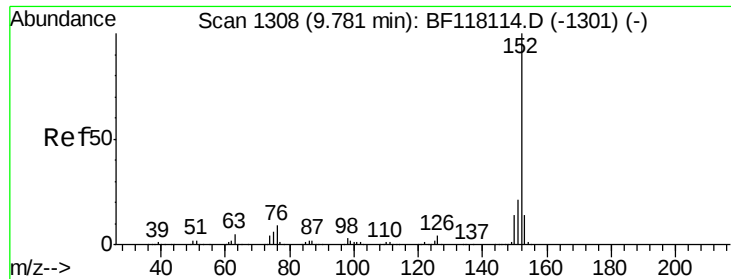
171 36.5 29.2 43.8

170 24.2 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





#49

Acenaphthylene

Concen: 14.399 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampleId :

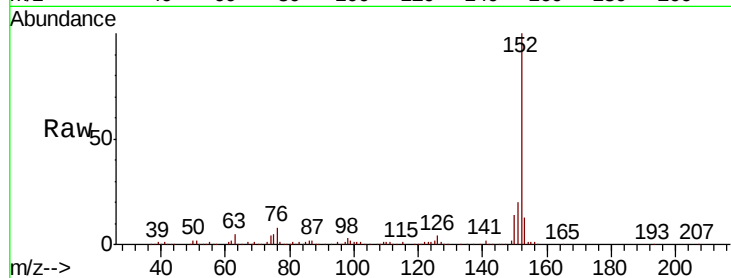
Tot Ion:152 Resp: 257921

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

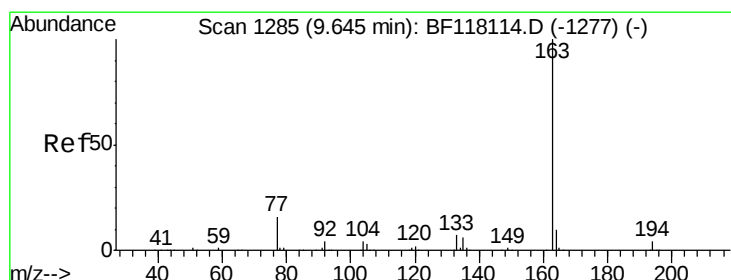
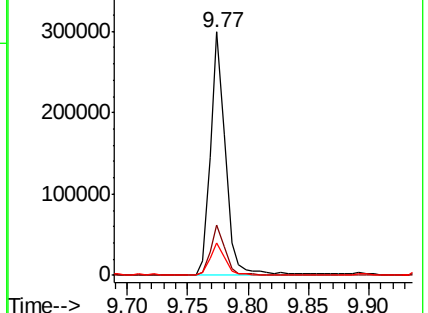
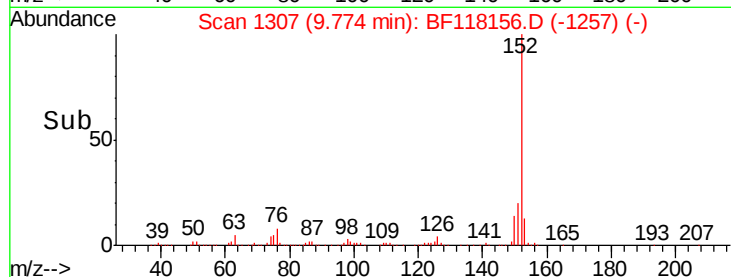
153 13.4 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.858 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.02 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

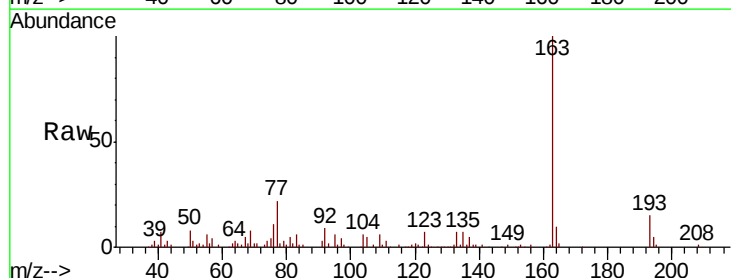
Tgt Ion:163 Resp: 82828

Ion Ratio Lower Upper

163 100

194 5.4 3.1 4.7#

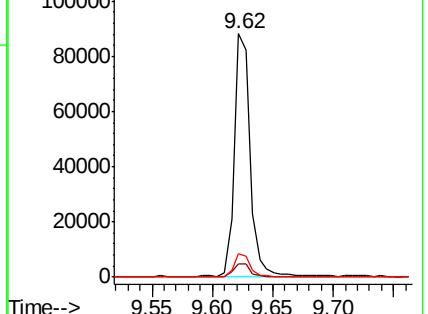
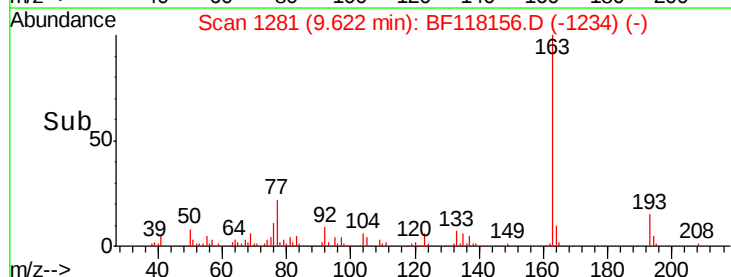
164 9.8 7.7 11.5

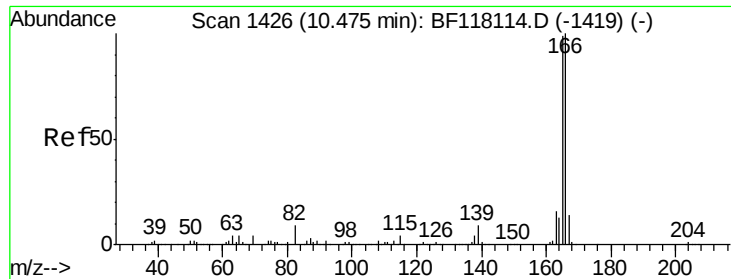


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

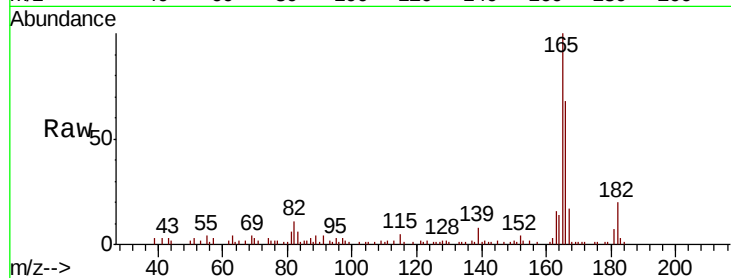




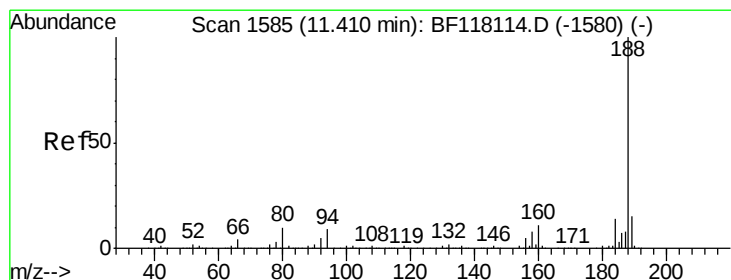
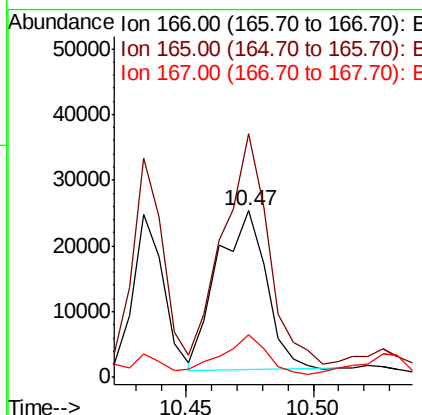
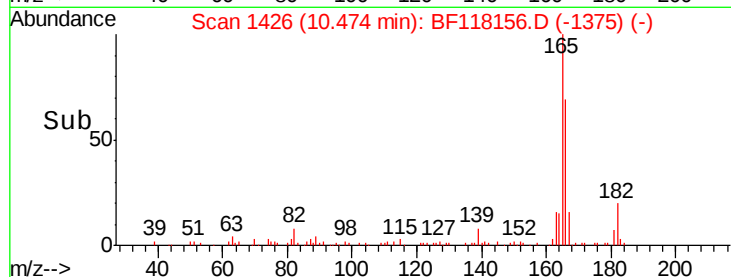
#58
 Fluorene
 Concen: 2.524 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.00 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 32128
 Ion Ratio Lower Upper
 166 100
 165 146.3 79.0 118.4#
 167 25.4 10.9 16.3#

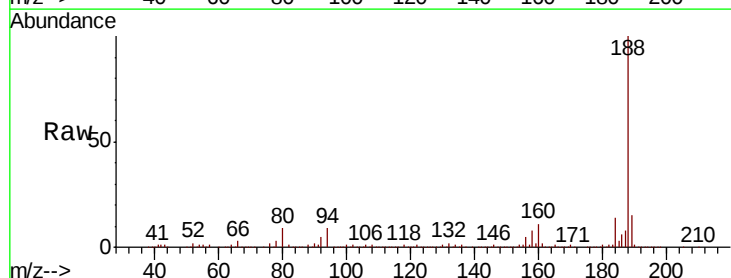


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

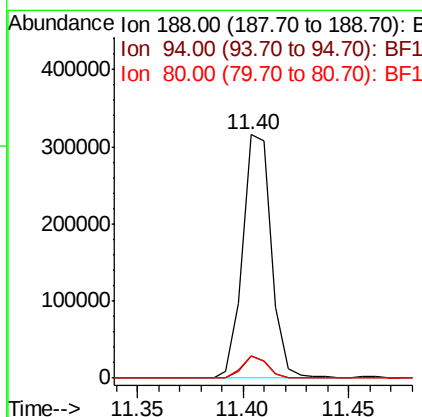
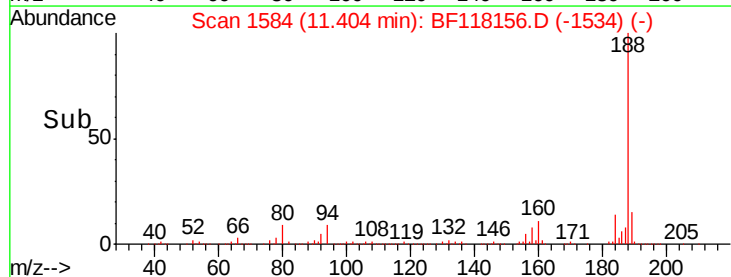


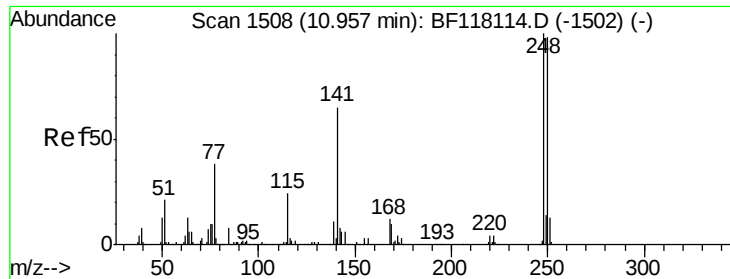
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

Tgt Ion:188 Resp: 297646
 Ion Ratio Lower Upper
 188 100
 94 8.9 7.1 10.7
 80 9.2 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

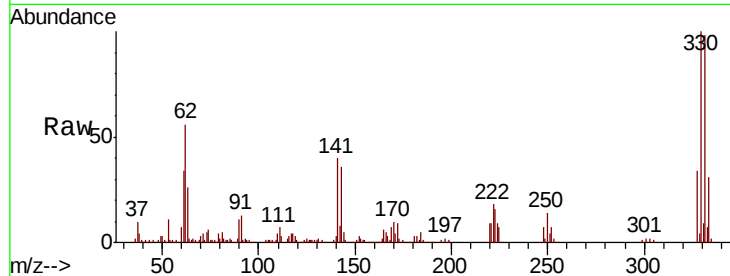




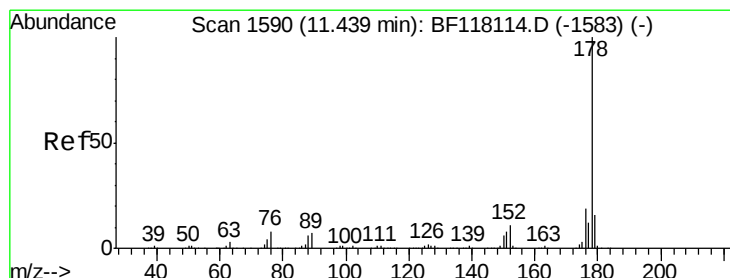
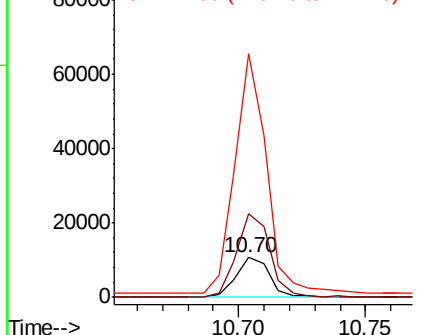
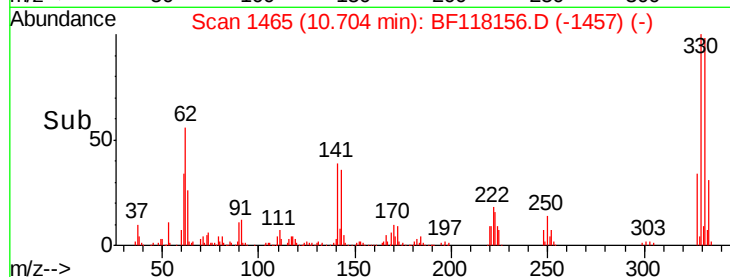
#67
 4-Bromophenyl-phenylether
 Concen: 2.917 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.25 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 9910
 Ion Ratio Lower Upper
 248 100
 250 208.1 78.3 117.5#
 141 608.3 52.2 78.4#

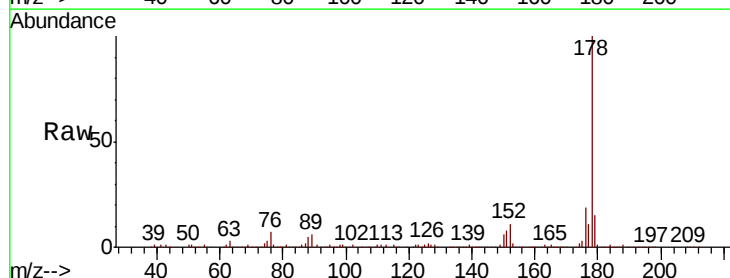


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

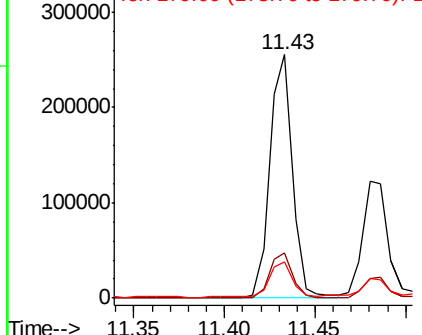
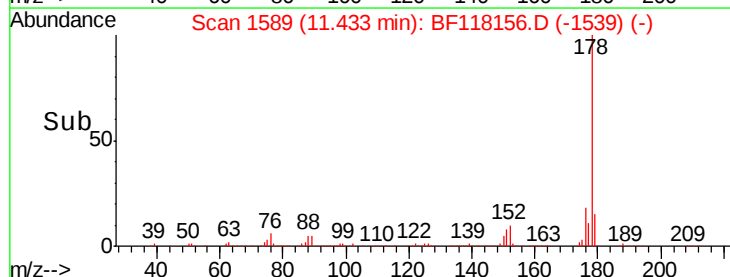


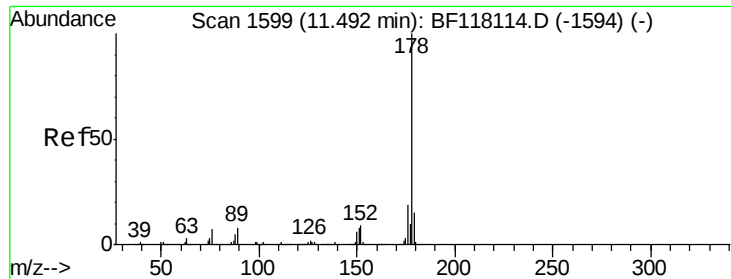
#71
 Phenanthrene
 Concen: 13.926 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

Tgt Ion:178 Resp: 220338
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.5 23.3
 179 15.0 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: 7.278 ng

RT: 11.48 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampleId :

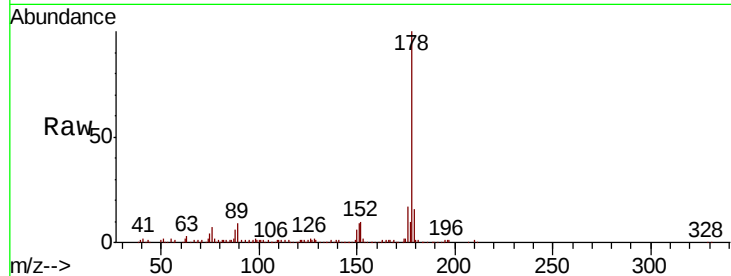
Tot Ion:178 Resp: 114884

Ion Ratio Lower Upper

178 100

176 17.2 15.0 22.6

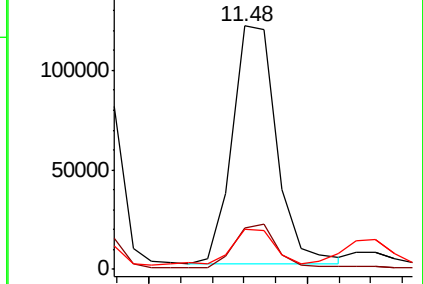
179 16.4 12.2 18.4



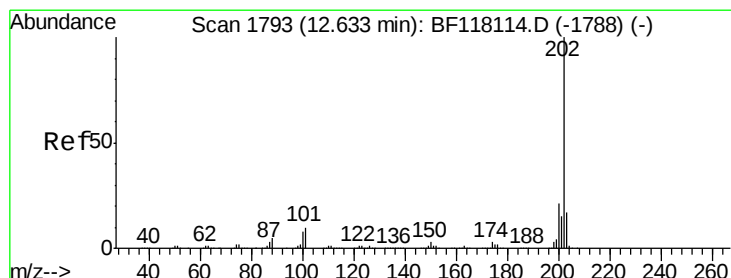
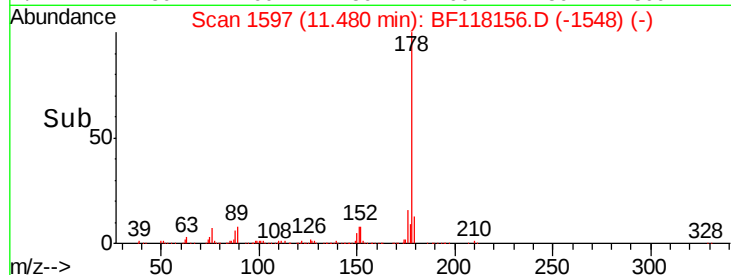
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 25.466 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

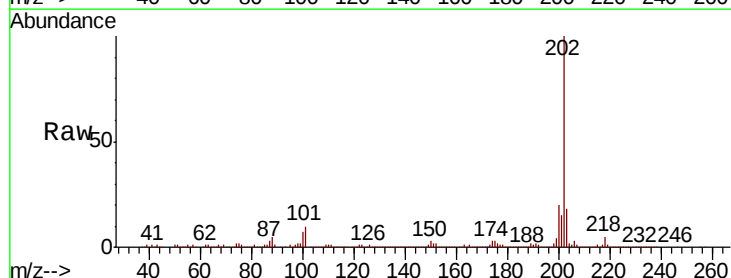
Tgt Ion:202 Resp: 411960

Ion Ratio Lower Upper

202 100

101 10.2 0.0 30.4

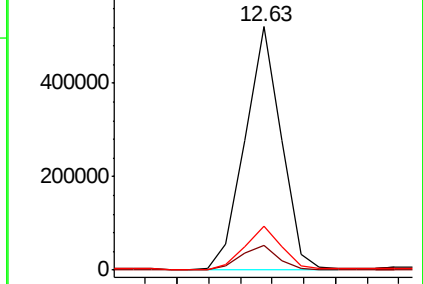
203 18.3 0.0 37.2



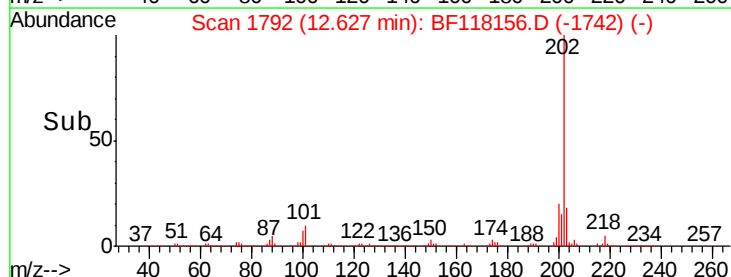
Abundance Ion 202.00 (201.70 to 202.70): E

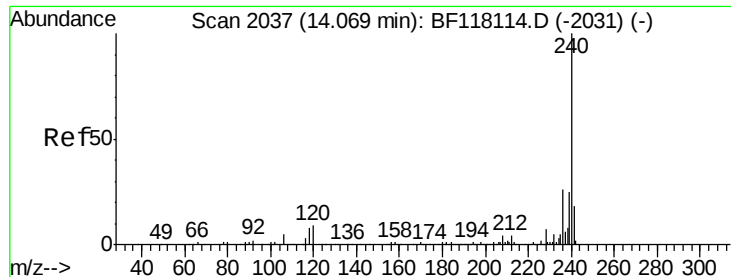
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

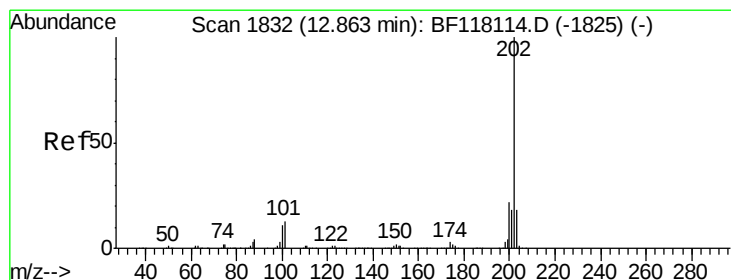
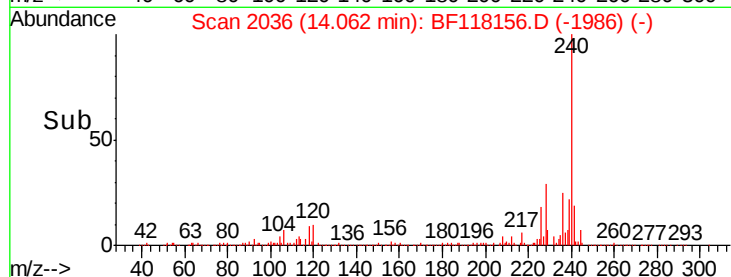
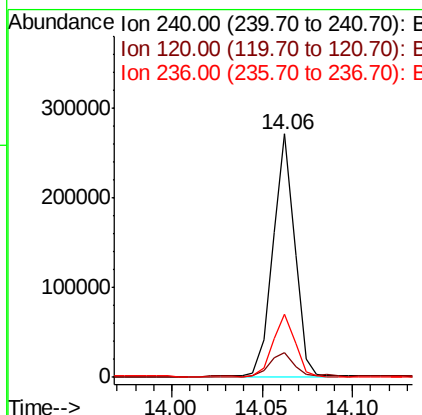
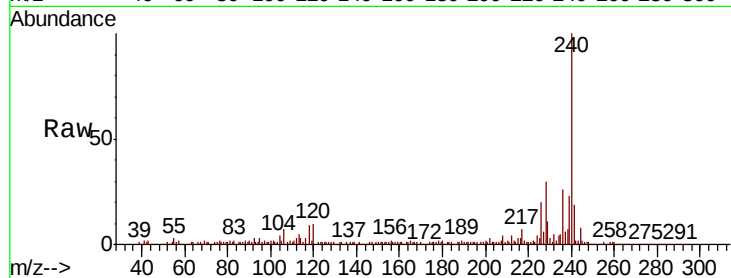




#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.06 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

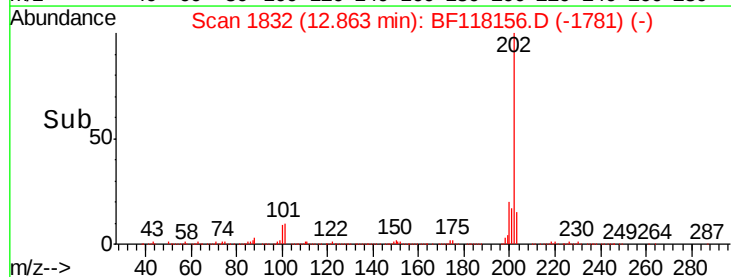
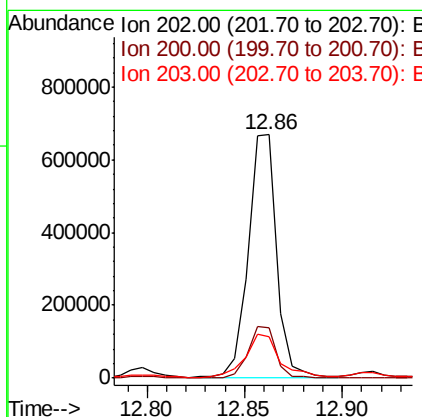
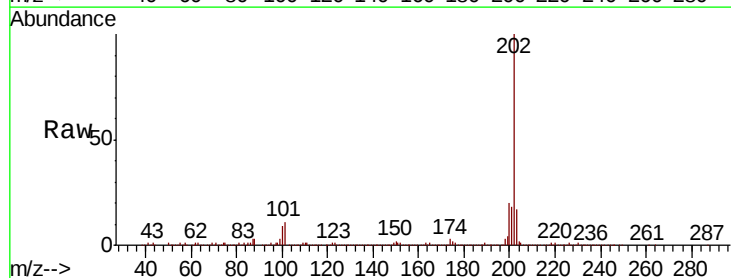
Instrument :
 BNA_F
 ClientSampleId :

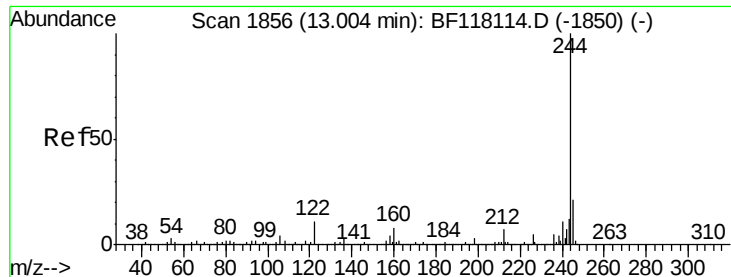
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.1	10.7
236	25.9	21.0	31.6



#78
 Pyrene
 Concen: 37.488 ng
 RT: 12.86 min Scan# 1832
 Delta R.T. -0.00 min
 Lab File: BF118156.D
 Acq: 9 Dec 2019 20:44

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.5	26.3
203	17.2	14.6	21.8





#79

Terphenyl-d14

Concen: 55.033 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampleId :

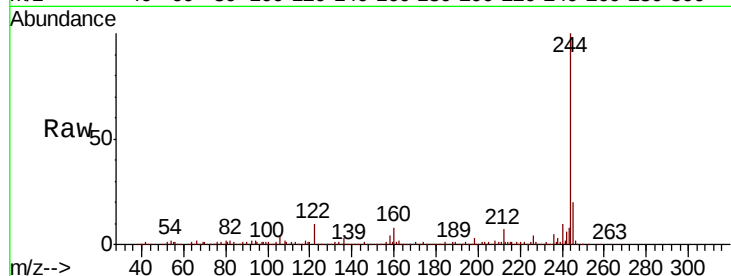
Tot Ion:244 Resp: 722935

Ion Ratio Lower Upper

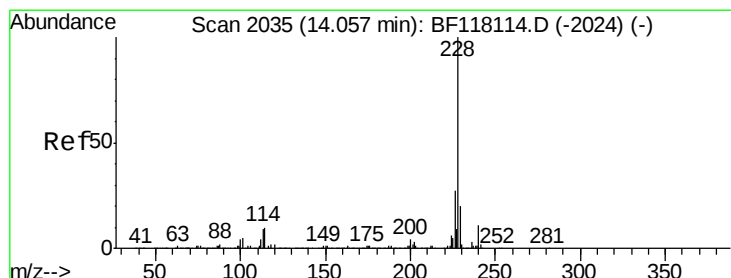
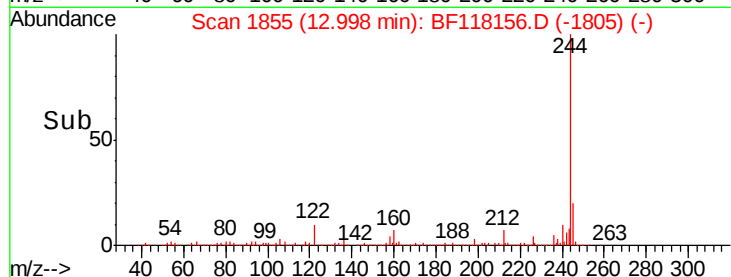
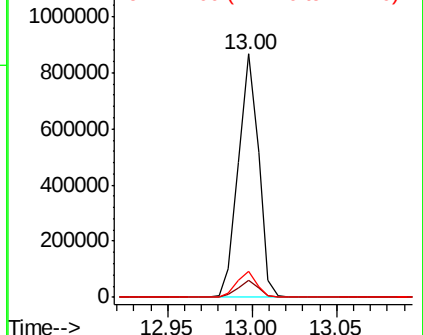
244 100

212 7.1 5.9 8.9

122 10.5 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: 23.458 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.03 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

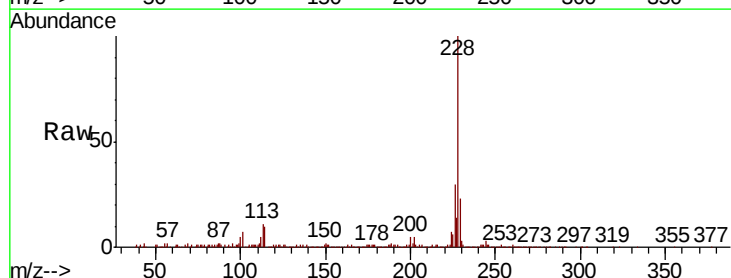
Tgt Ion:228 Resp: 366412

Ion Ratio Lower Upper

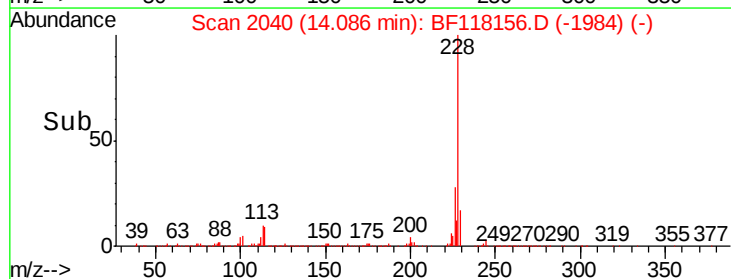
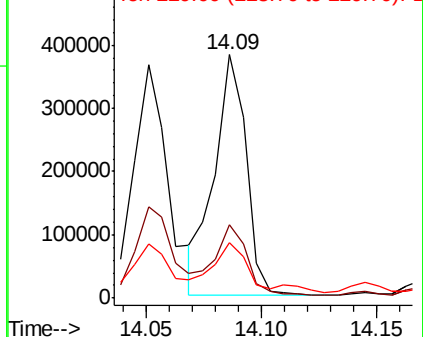
228 100

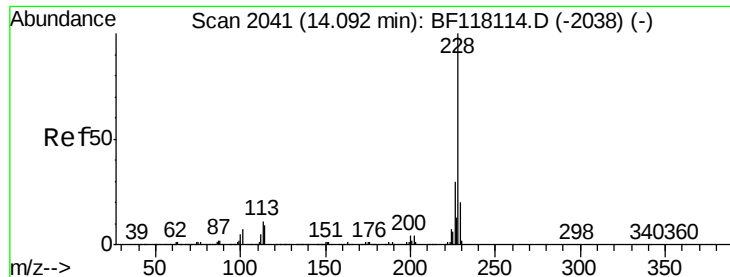
226 30.3 21.8 32.8

229 22.9 15.8 23.8



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: 24.558 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

Instrument :

BNA_F

ClientSampled :

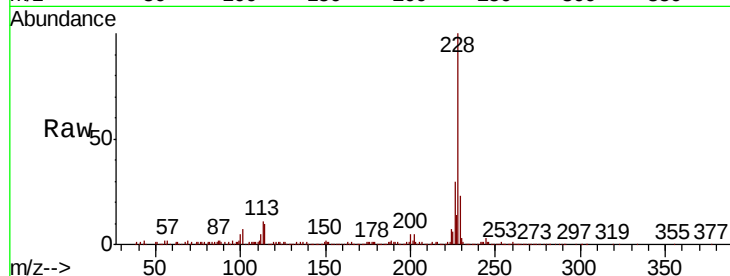
Tot Ion:228 Resp: 366412

Ion Ratio Lower Upper

228 100

226 30.3 23.8 35.8

229 22.9 15.7 23.5

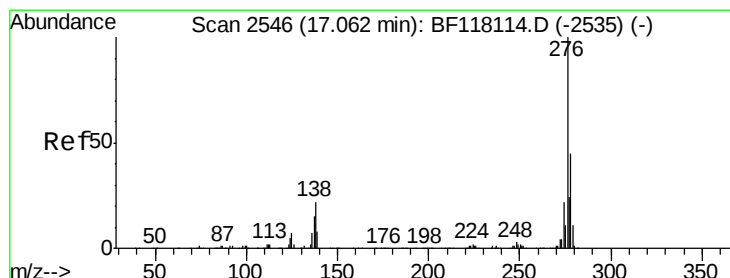
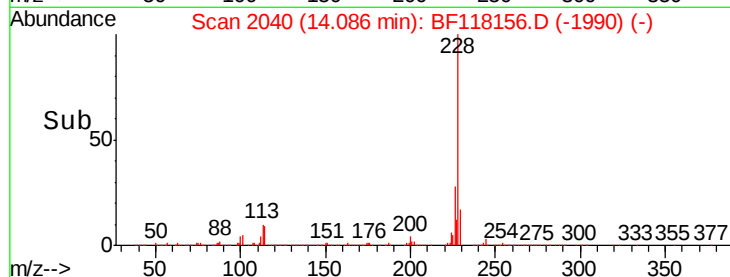
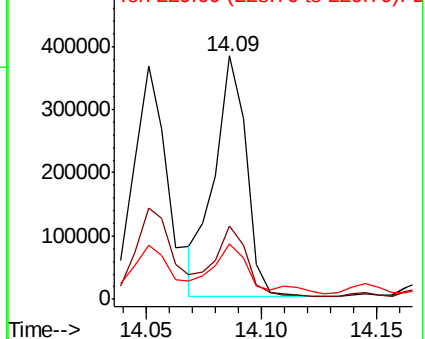


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 16.347 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.00 min

Lab File: BF118156.D

Acq: 9 Dec 2019 20:44

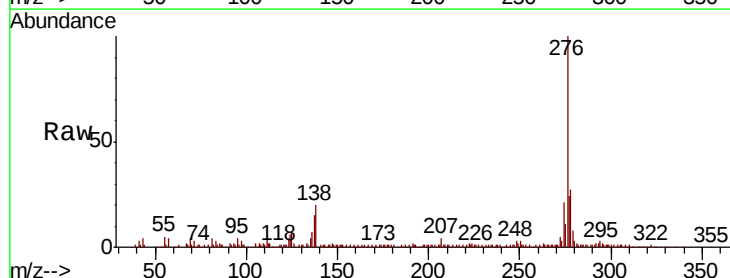
Tgt Ion:276 Resp: 205226

Ion Ratio Lower Upper

276 100

138 19.9 18.9 28.3

277 23.9 20.4 30.6

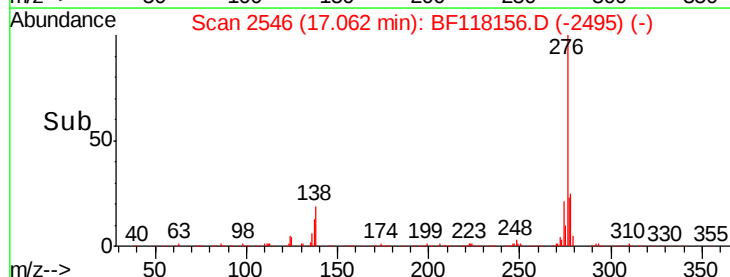
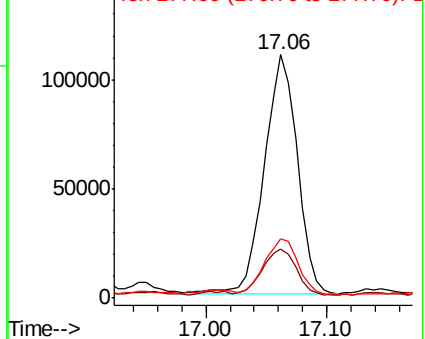


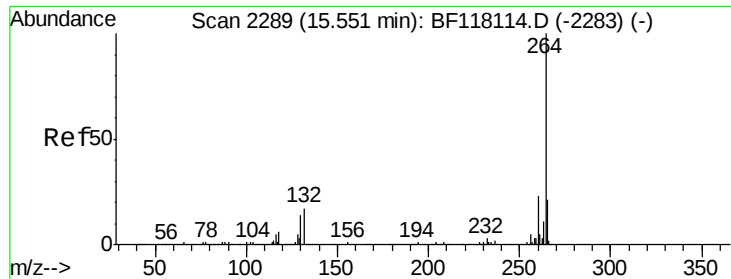
Abundance

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

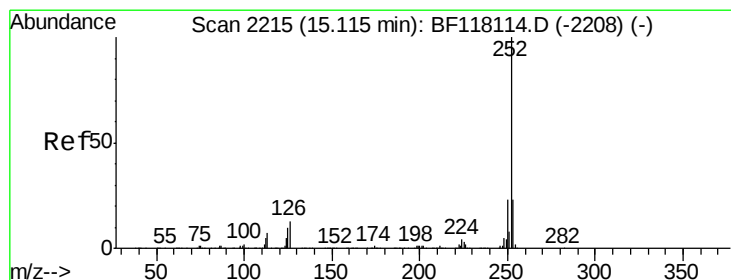
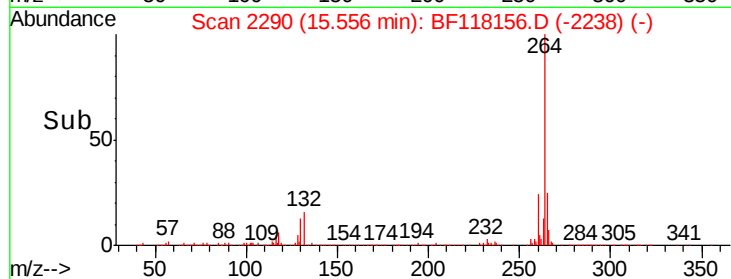
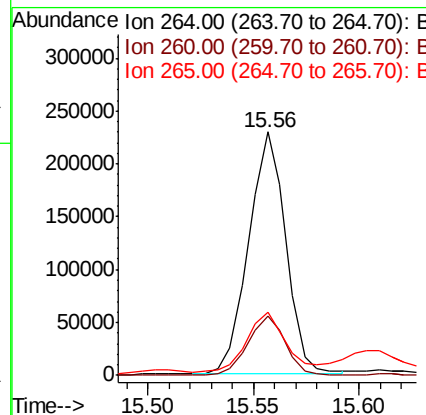
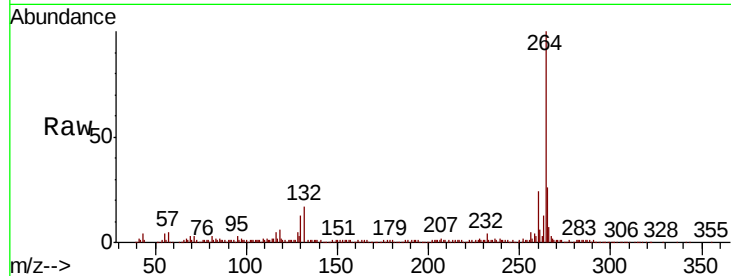




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2290
Delta R.T. 0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

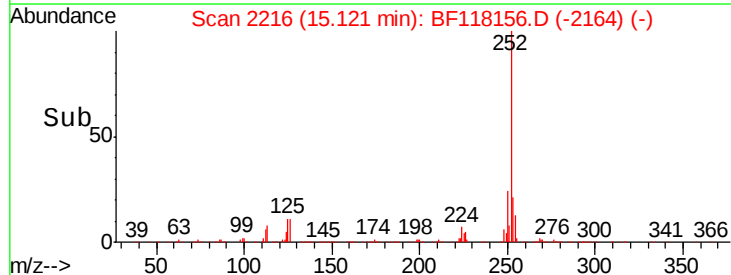
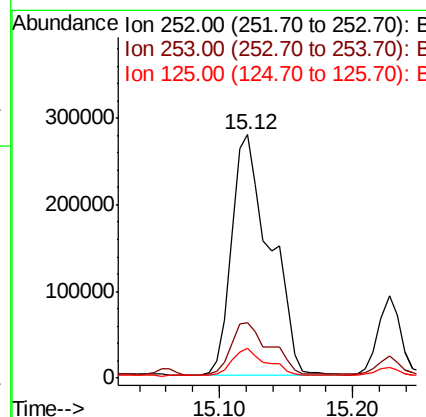
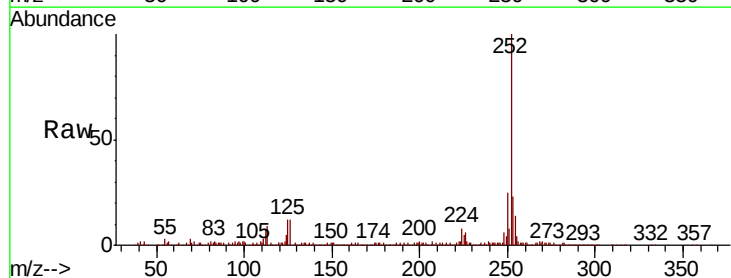
Instrument :
BNA_F
ClientSampleId :

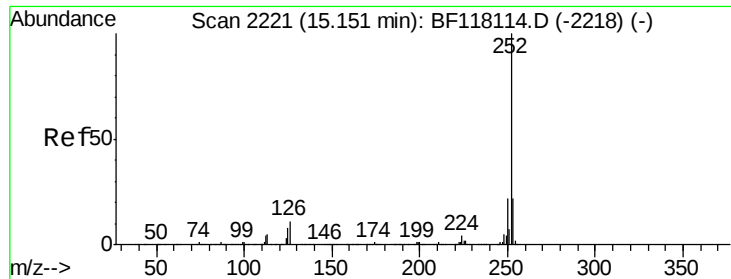
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.6	28.0
265	25.7	16.8	25.2



#88
Benzo(b)fluoranthene
Concen: 30.232 ng
RT: 15.12 min Scan# 2216
Delta R.T. 0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.4
125	12.0	8.3	12.5

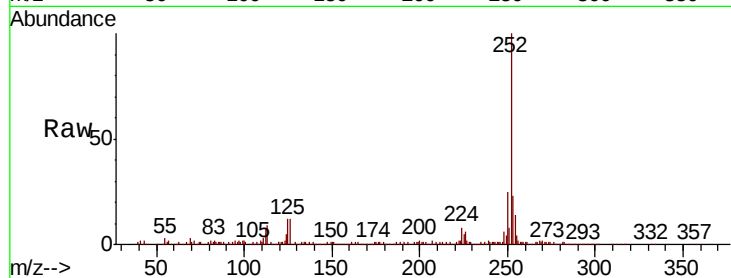




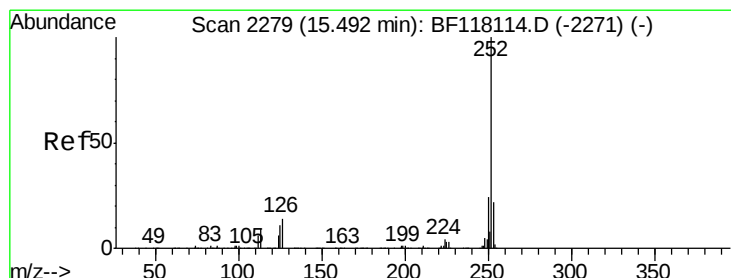
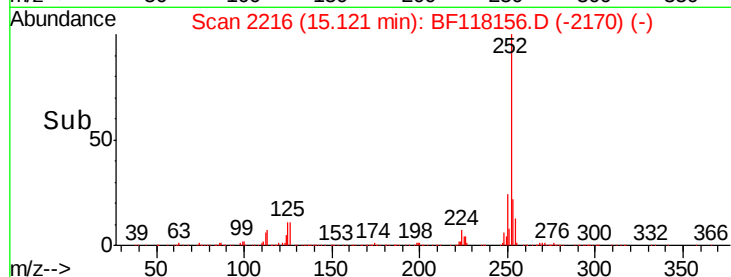
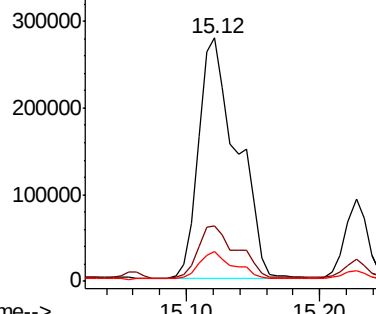
#89
Benzo(k)fluoranthene
Concen: 31.470 ng
RT: 15.12 min Scan# 2216
Delta R.T. -0.03 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 558957
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 12.0 6.7 10.1#

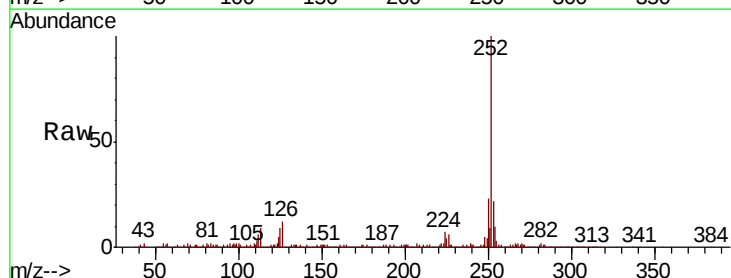


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

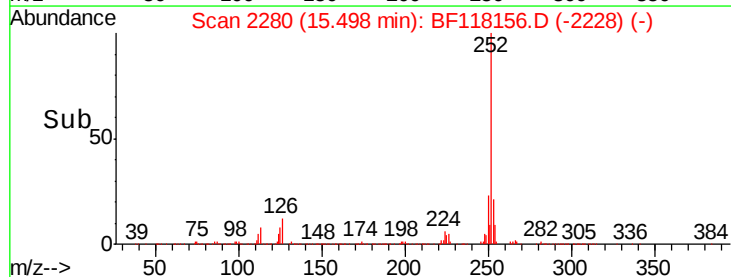
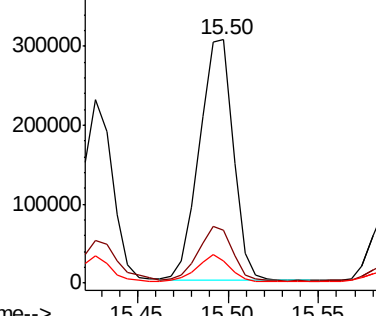


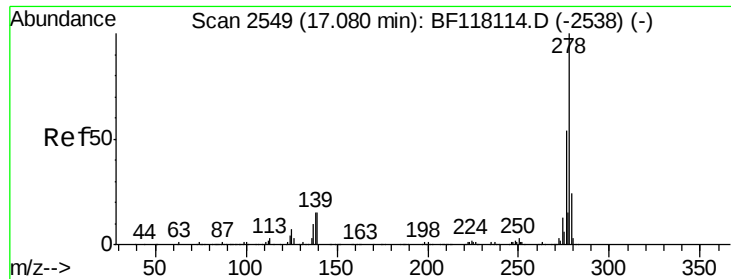
#90
Benzo(a)pyrene
Concen: 24.385 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Tgt Ion:252 Resp: 398188
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 9.2 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

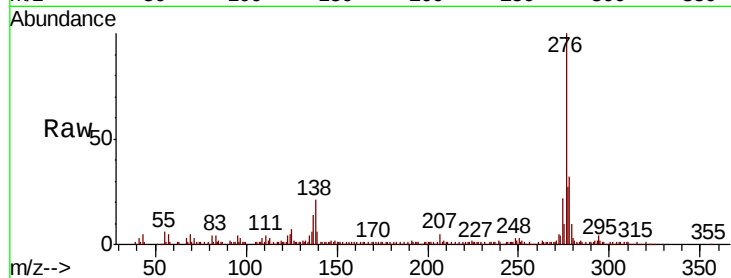




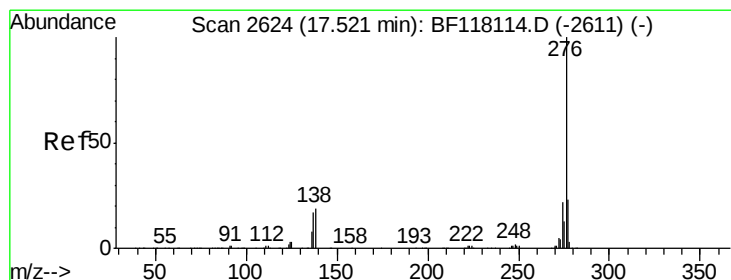
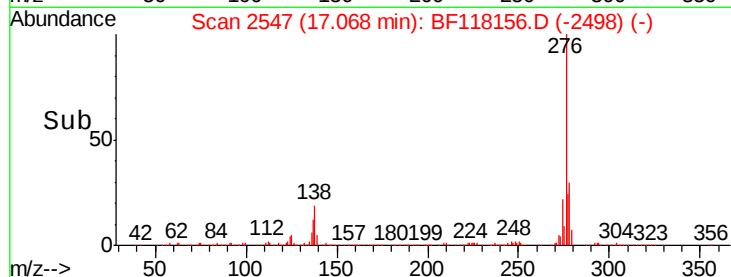
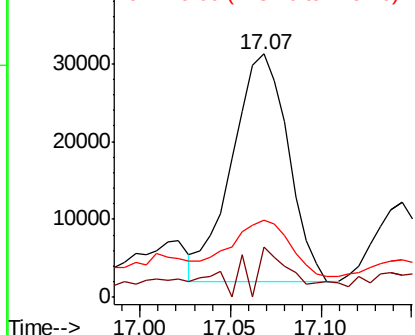
#91
Dibenzo(a,h)anthracene
Concen: 4.485 ng
RT: 17.07 min Scan# 2547
Delta R.T. -0.01 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 62813
Ion Ratio Lower Upper
278 100
139 20.5 11.7 17.5#
279 31.5 19.0 28.4#

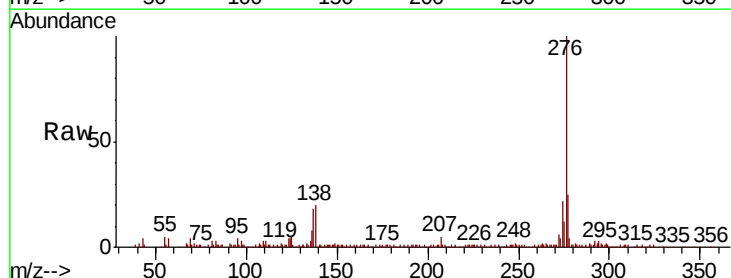


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 16.496 ng
RT: 17.52 min Scan# 2624
Delta R.T. -0.00 min
Lab File: BF118156.D
Acq: 9 Dec 2019 20:44

Tgt Ion:276 Resp: 222019
Ion Ratio Lower Upper
276 100
277 25.3 18.2 27.4
138 19.6 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

