

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
 Data File : BF117895.D
 Acq On : 20 Nov 2019 16:12
 Operator : JU
 Sample : K5916-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 21 03:06:48 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	180663	20.00	ng	-0.01
21) Naphthalene-d8	8.20	136	689337	20.00	ng	-0.01
39) Acenaphthene-d10	9.96	164	357635	20.00	ng	-0.01
64) Phenanthrene-d10	11.46	188	590333	20.00	ng	-0.01
76) Chrysene-d12	14.11	240	379865	20.00	ng	0.00
87) Perylene-d12	15.62	264	428684	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.53	112	805372	78.91	ng	0.00
7) Phenol-d6	6.54	99	1168957	94.96	ng	0.00
23) Nitrobenzene-d5	7.47	82	710238	61.25	ng	-0.02
42) 2,4,6-Tribromophenol	10.76	330	310597	82.03	ng	-0.01
45) 2-Fluorobiphenyl	9.28	172	1294419	64.93	ng	-0.01
79) Terphenyl-d14	13.05	244	1038128	49.95	ng	0.00

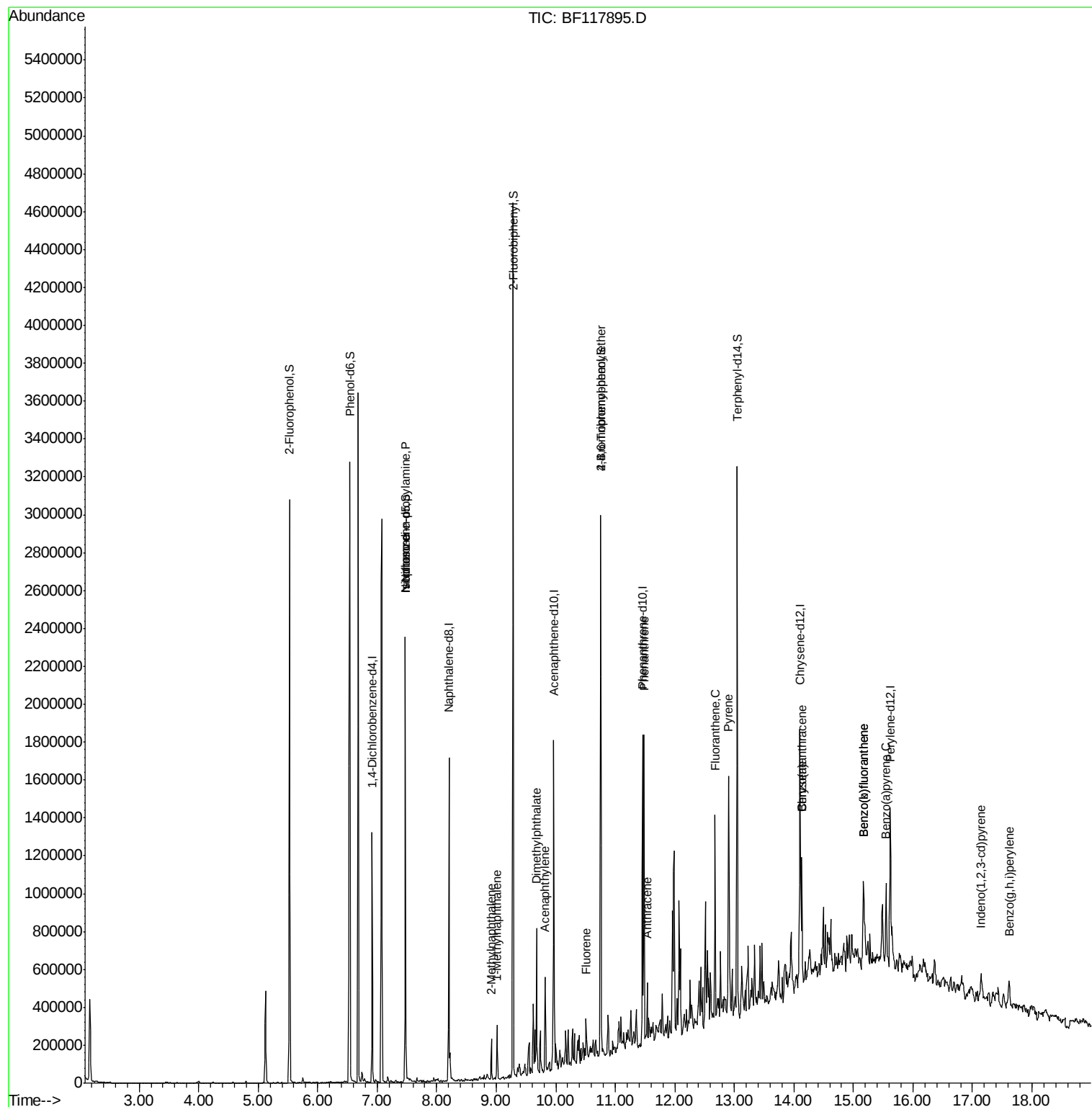
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.46	77	834	Below Cal		# 48
19) n-Nitroso-di-n-propylamine	7.47	70	98337	12.948	ng	# 76
25) Isophorone	7.47	82	705700	33.203	ng	# 62
37) 2-Methylnaphthalene	8.92	142	54037	2.489	ng	98
38) 1-Methylnaphthalene	9.02	142	66651	3.247	ng	99
49) Acenaphthylene	9.83	152	165358	5.196	ng	98
50) Dimethylphthalate	9.67	163	258558	10.310	ng	98
58) Fluorene	10.52	166	58268	2.664	ng	# 90
67) 4-Bromophenyl-phenylether	10.76	248	20465	3.213	ng	# 1
71) Phenanthrene	11.48	178	552280	18.608	ng	97
72) Anthracene	11.53	178	108178	3.676	ng	97
75) Fluoranthene	12.67	202	383363	7.997	ng	99
78) Pylene	12.90	202	534074	17.397	ng	99
81) Benzo(a)anthracene	14.13	228	254821	10.151	ng	94
83) Chrysene	14.13	228	254821	10.476	ng	97
86) Indeno(1,2,3-cd)pyrene	17.14	276	92493	4.468	ng	97
88) Benzo(b)fluoranthene	15.17	252	320630	11.512	ng	95
89) Benzo(k)fluoranthene	15.17	252	320630	12.218	ng	# 94
90) Benzo(a)pyrene	15.55	252	198613	8.110	ng	96
92) Benzo(a,h,i)perylene	17.62	276	108805	5.182	ng	99

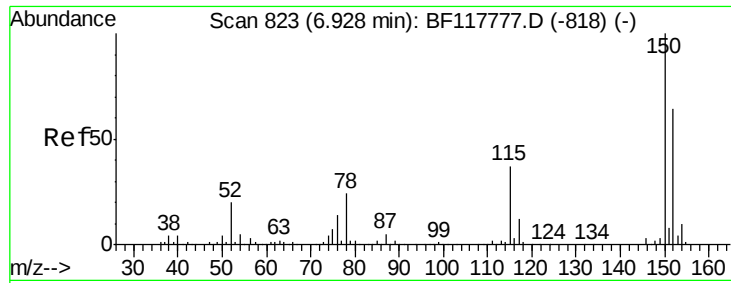
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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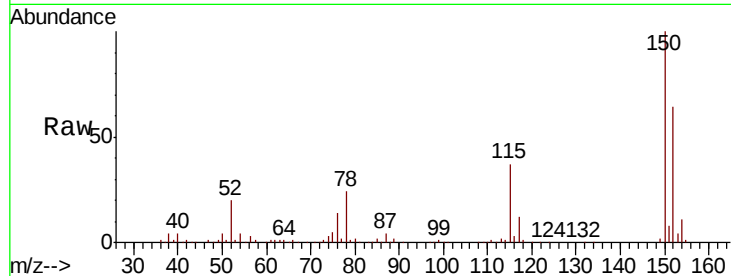


#1

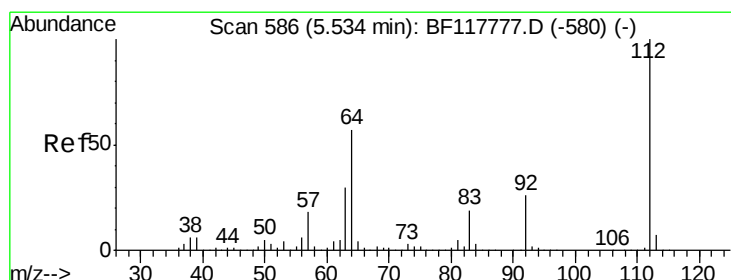
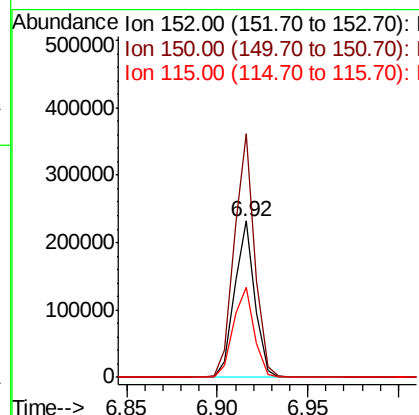
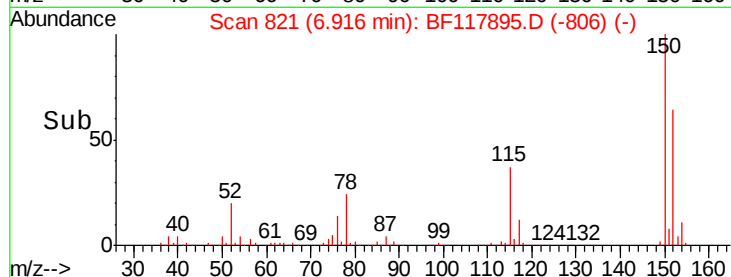
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 180663
Ion Ratio Lower Upper
152 100
150 155.7 125.3 187.9
115 57.9 47.0 70.4



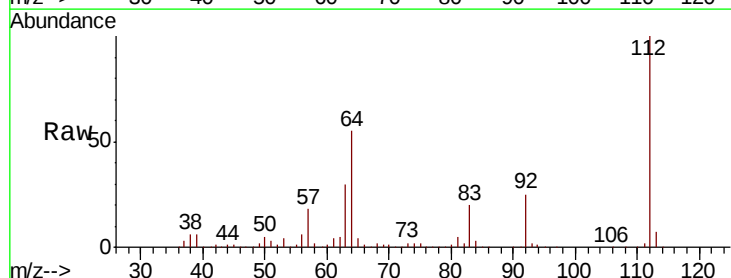
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



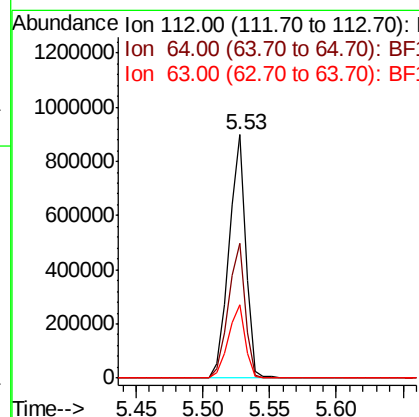
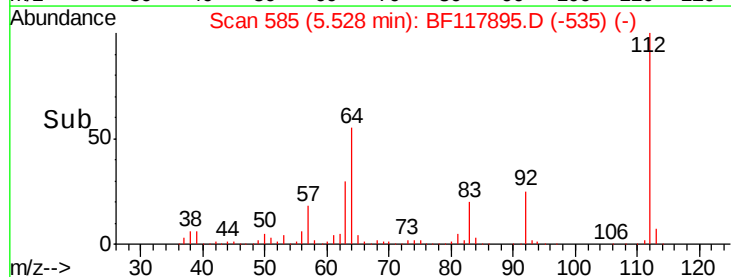
#5

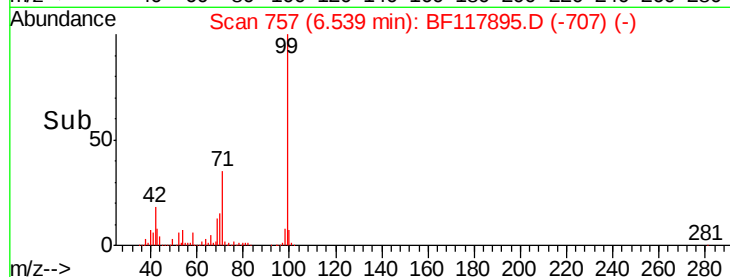
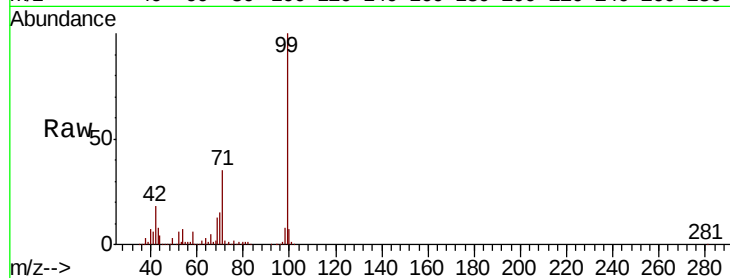
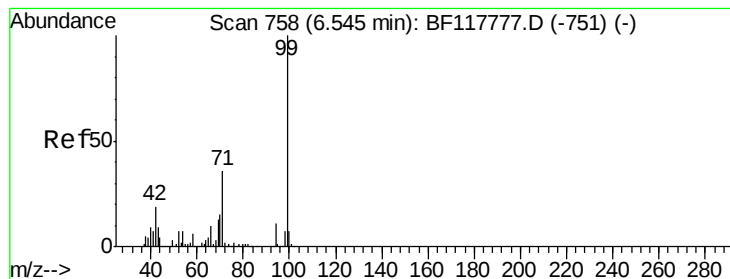
2-Fluorophenol
Concen: 78.909 ng
RT: 5.53 min Scan# 585
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Tgt Ion:112 Resp: 805372
Ion Ratio Lower Upper
112 100
64 55.5 45.6 68.4
63 30.3 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: 94.956 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

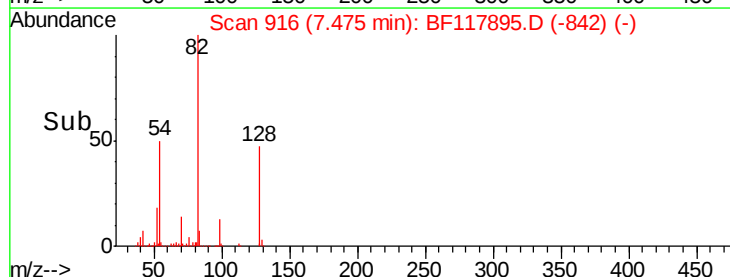
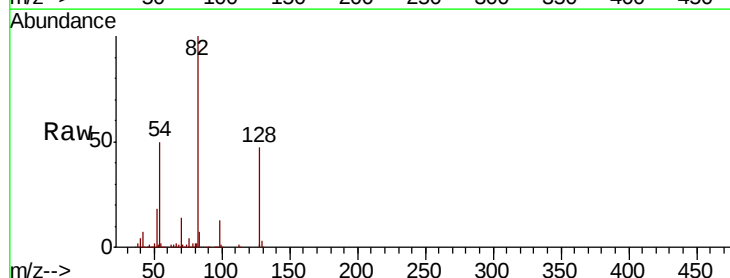
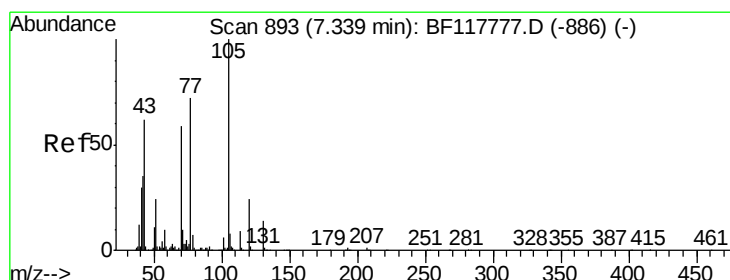
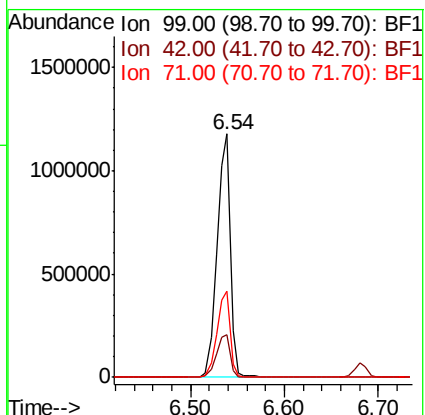
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1168957

Ion	Ratio	Lower	Upper
99	100		
42	17.6	14.9	22.3
71	35.4	28.6	43.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.948 ng

RT: 7.47 min Scan# 916

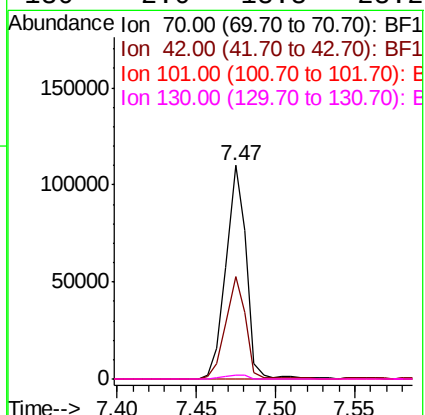
Delta R.T. 0.14 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Tgt Ion: 70 Resp: 98337

Ion	Ratio	Lower	Upper
70	100		
42	48.0	47.4	71.2
101	0.0	8.4	12.6#
130	2.0	18.8	28.2#

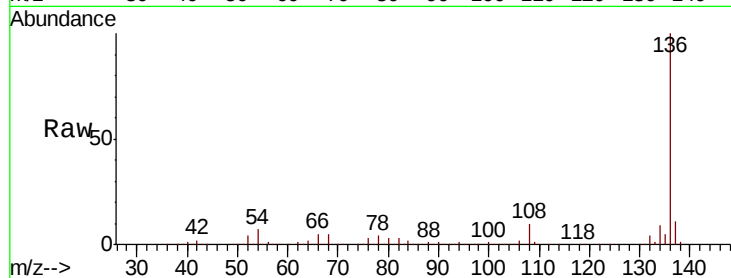




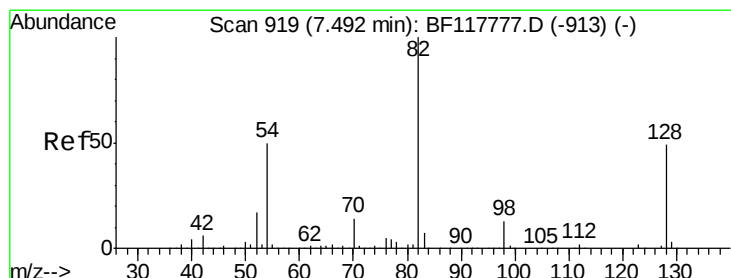
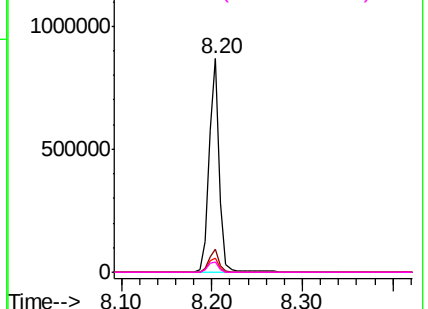
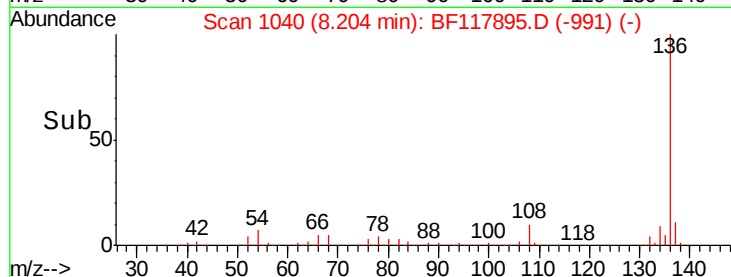
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.20 min Scan# 1040
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	689337
Ion Ratio	Lower	Upper
136	100	
137	10.9	9.0 13.4
54	6.9	5.4 8.2
68	5.0	4.3 6.5

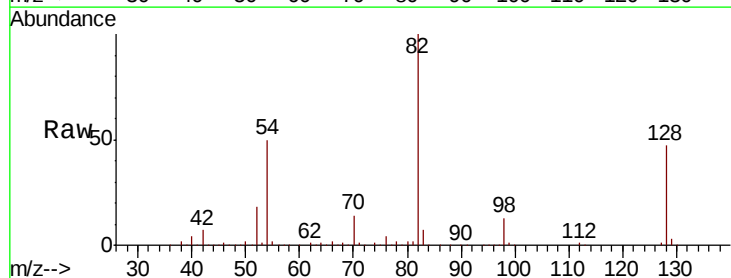


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

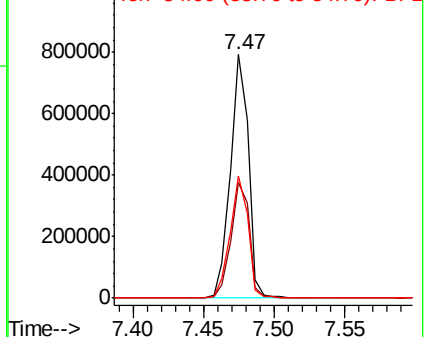
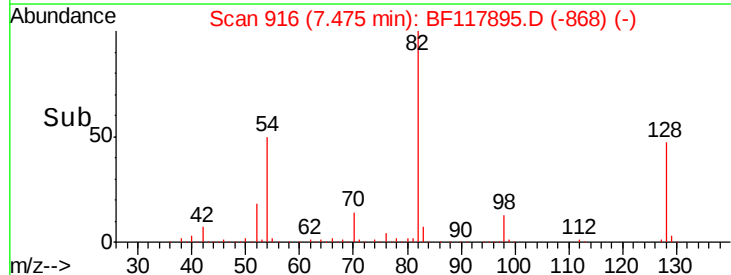


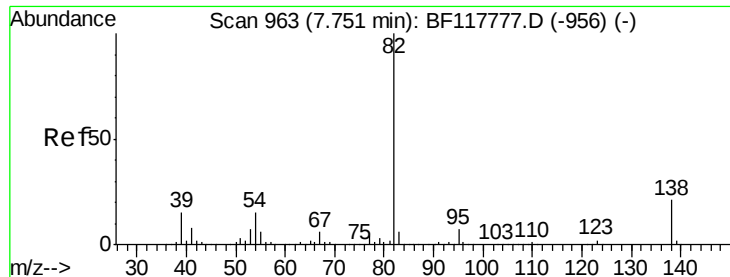
#23
Nitrobenzene-d5
Concen: 61.248 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.02 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Tgt Ion: 82	Resp:	710238
Ion Ratio	Lower	Upper
82	100	
128	47.3	38.9 58.3
54	50.2	39.8 59.6



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





#25

Isophorone

Concen: 33.203 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.28 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Instrument :

BNA_F

ClientSampleId :

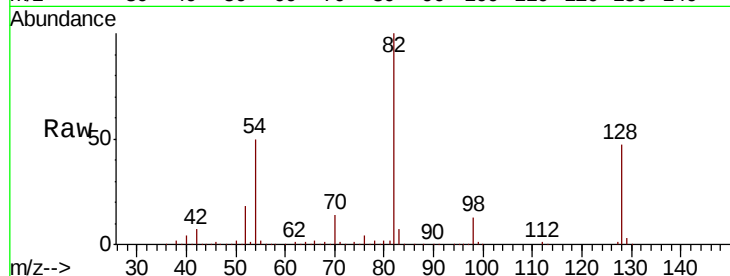
Tot Ion: 82 Resp: 705700

Ion Ratio Lower Upper

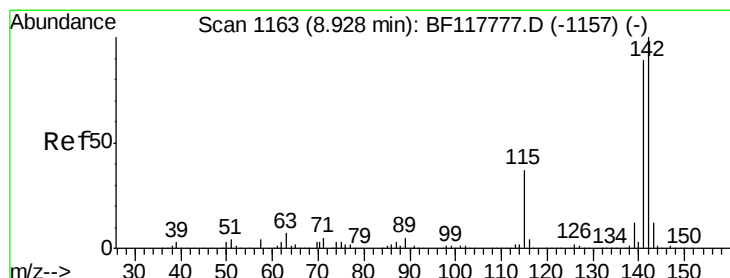
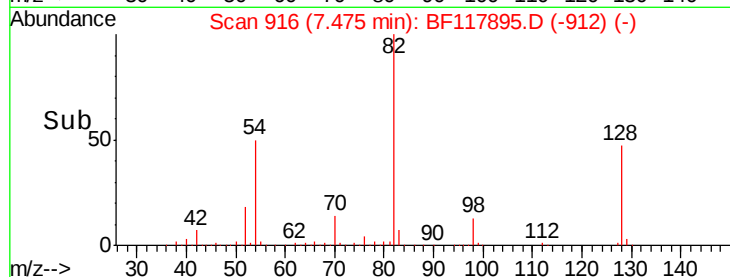
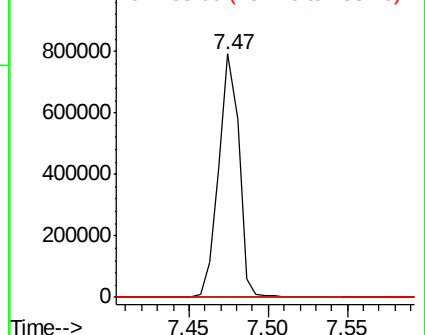
82 100

95 0.1 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



#37

2-Methylnaphthalene

Concen: 2.489 ng

RT: 8.92 min Scan# 1161

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

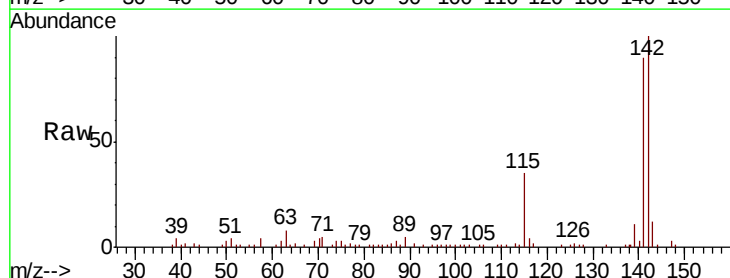
Tgt Ion: 142 Resp: 54037

Ion Ratio Lower Upper

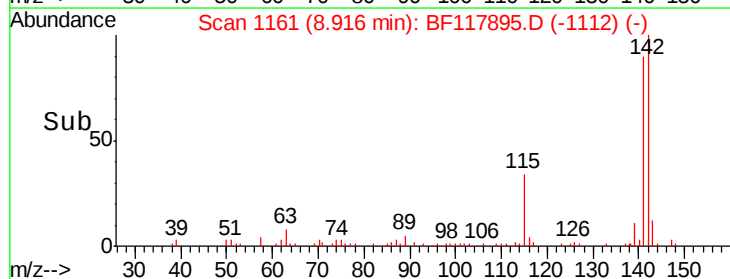
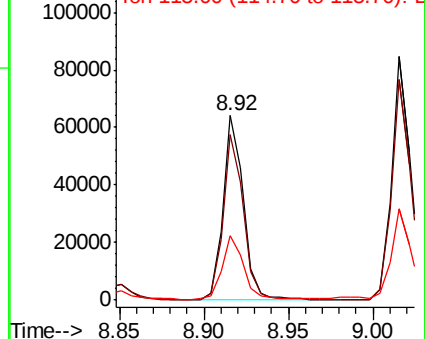
142 100

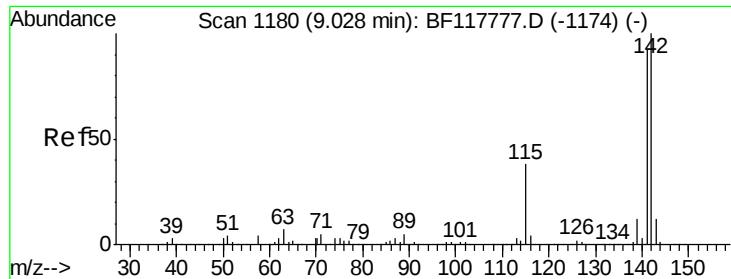
141 90.0 71.1 106.7

115 34.7 29.2 43.8



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

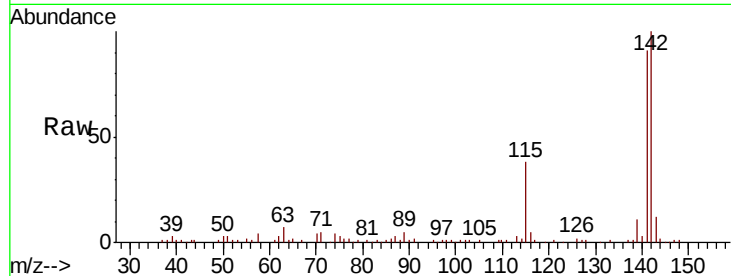




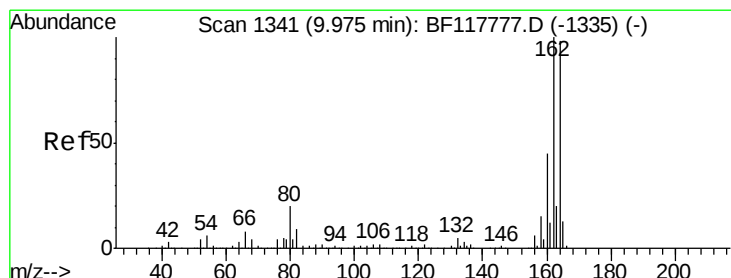
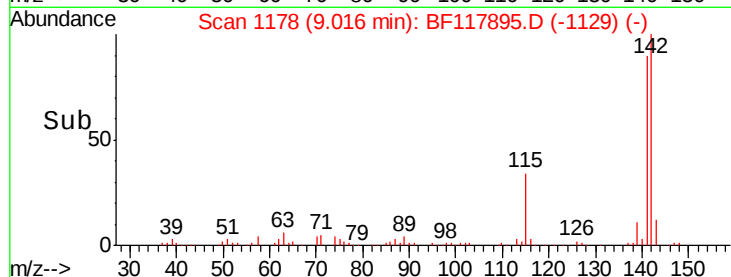
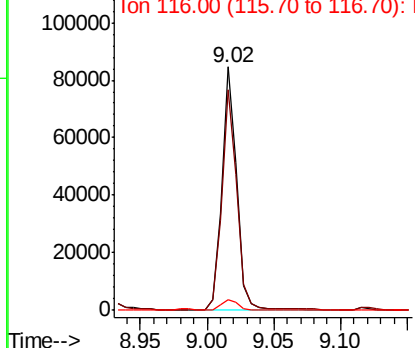
#38
1-Methylnaphthalene
Concen: 3.247 ng
RT: 9.02 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Instrument :
BNA_F
ClientSampleId :

Tot Ion:142 Resp: 66651
Ion Ratio Lower Upper
142 100
141 90.8 73.5 110.3
116 4.6 3.2 4.8

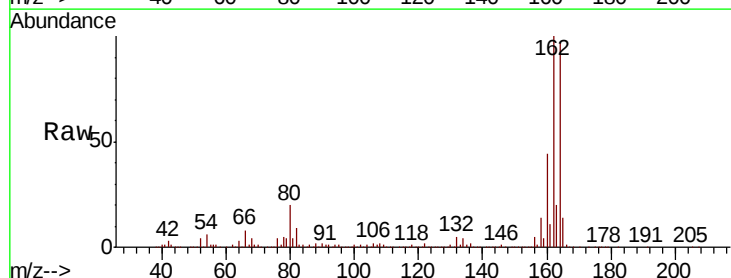


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

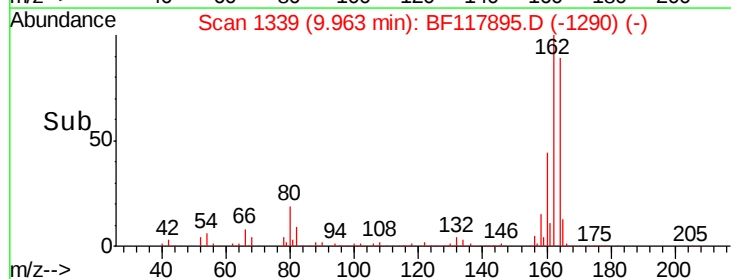
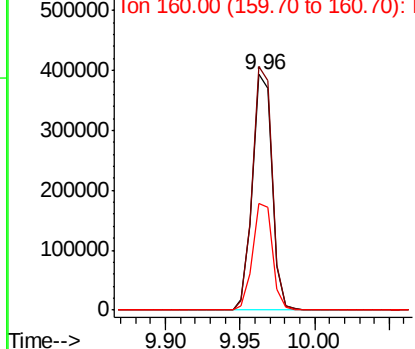


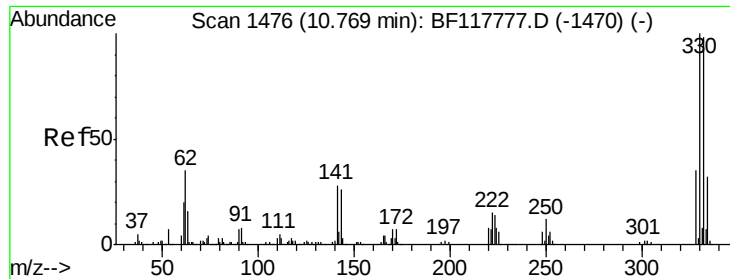
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Tgt Ion:164 Resp: 357635
Ion Ratio Lower Upper
164 100
162 103.4 81.3 121.9
160 45.1 36.6 55.0



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

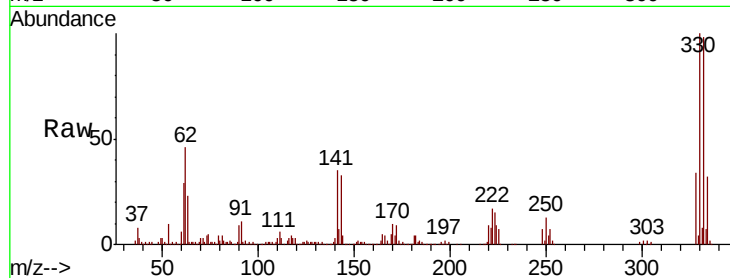




#42
 2,4,6-Tribromophenol
 Concen: 82.033 ng
 RT: 10.76 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.7	115.1
141	36.3	27.7	41.5

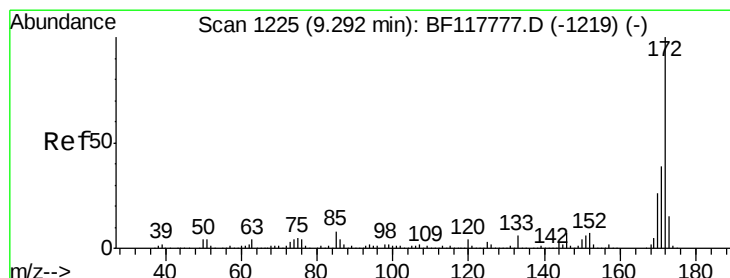
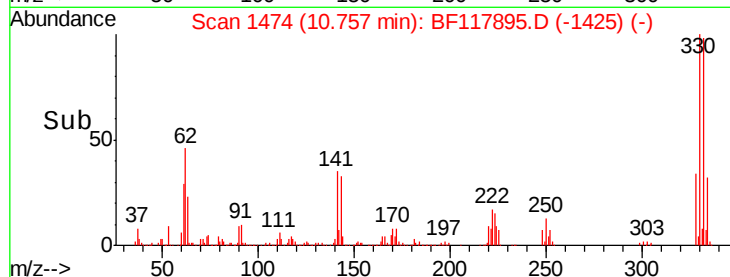
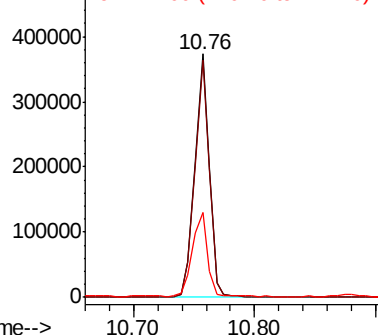


Abundance

Ion 329.80 (329.50 to 330.50): E

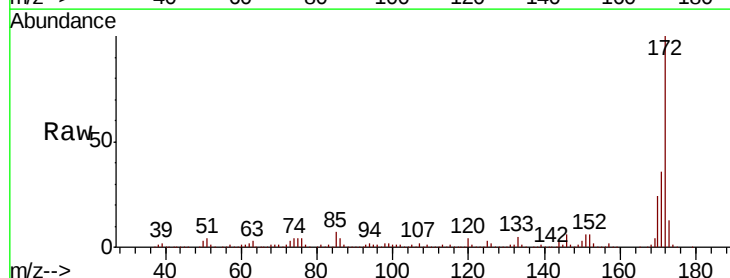
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 64.933 ng
 RT: 9.28 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	30.9	46.3
170	24.3	21.0	31.4

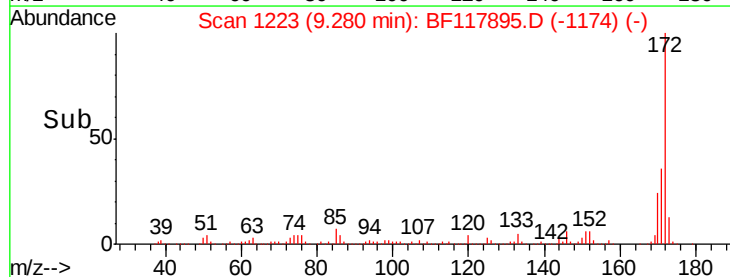
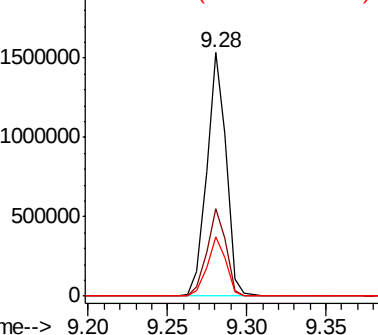


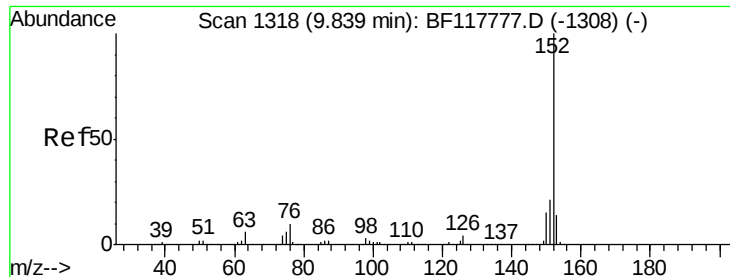
Abundance

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: 5.196 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Instrument :

BNA_F

ClientSampleId :

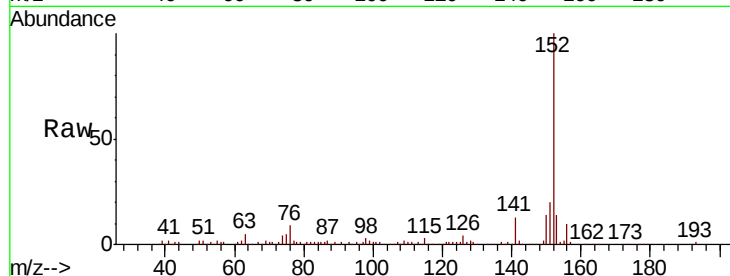
Tot Ion:152 Resp: 165358

Ion Ratio Lower Upper

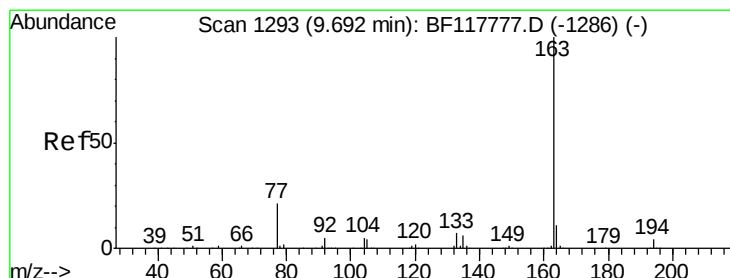
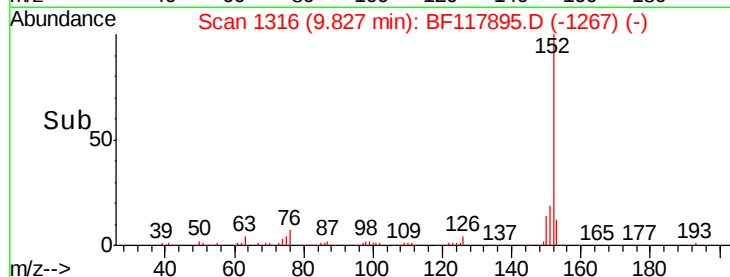
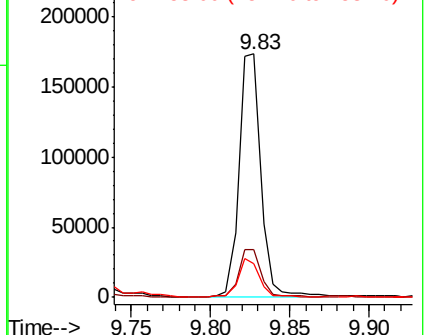
152 100

151 19.9 17.0 25.6

153 14.1 11.0 16.6



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: 10.310 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.02 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

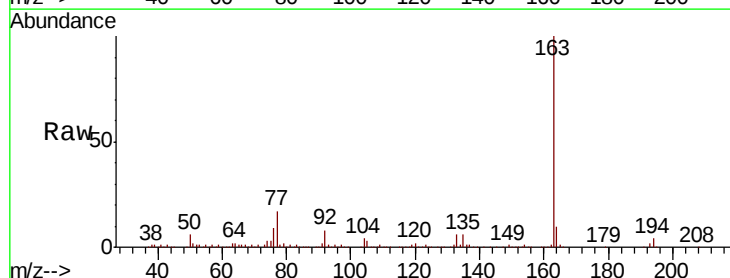
Tgt Ion:163 Resp: 258558

Ion Ratio Lower Upper

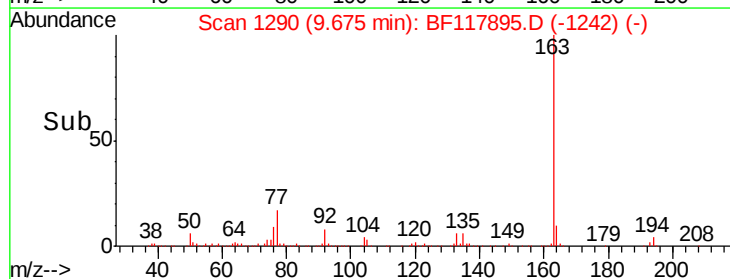
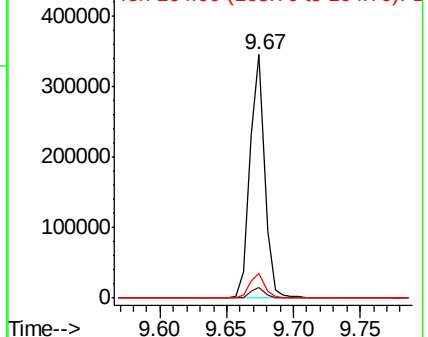
163 100

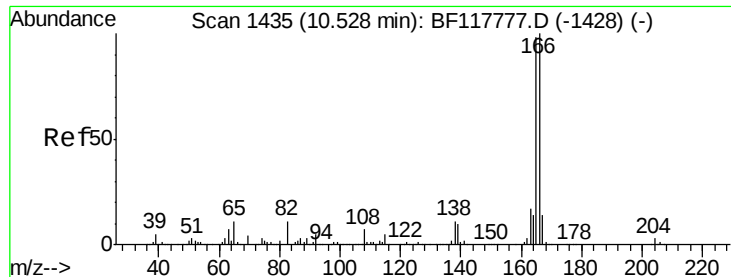
194 4.3 3.3 4.9

164 10.0 8.7 13.1



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

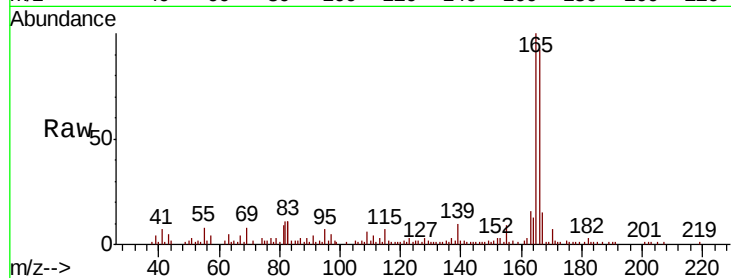




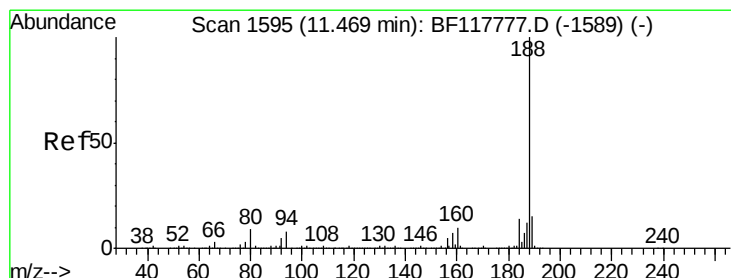
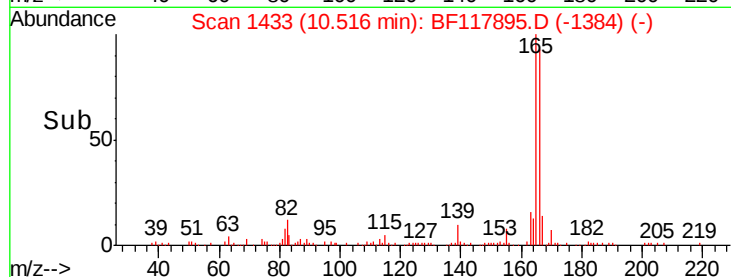
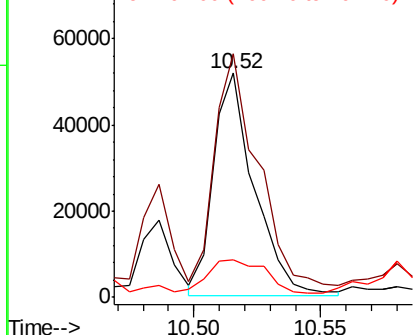
#58
 Fluorene
 Concen: 2.664 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 58268
 Ion Ratio Lower Upper
 166 100
 165 108.8 78.4 117.6
 167 16.8 11.0 16.4#

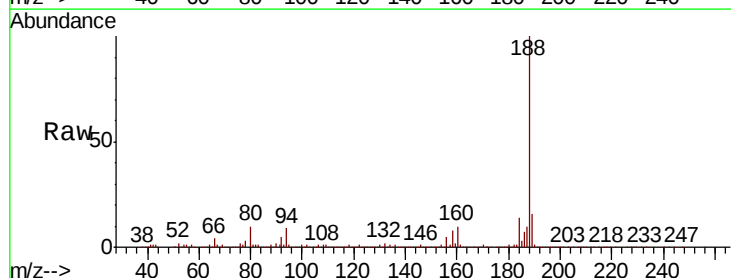


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

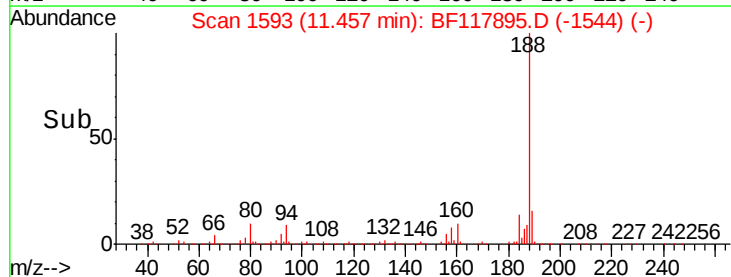
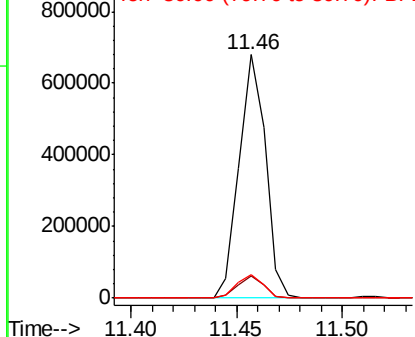


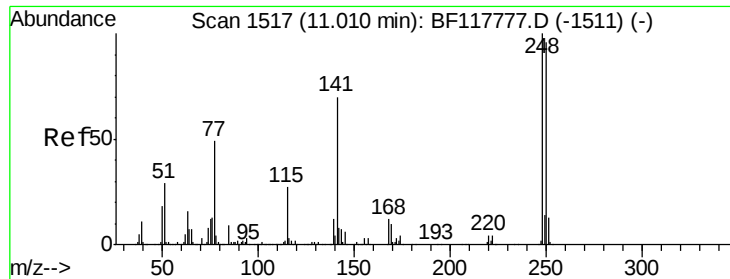
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Tgt Ion:188 Resp: 590333
 Ion Ratio Lower Upper
 188 100
 94 9.3 6.6 10.0
 80 9.8 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

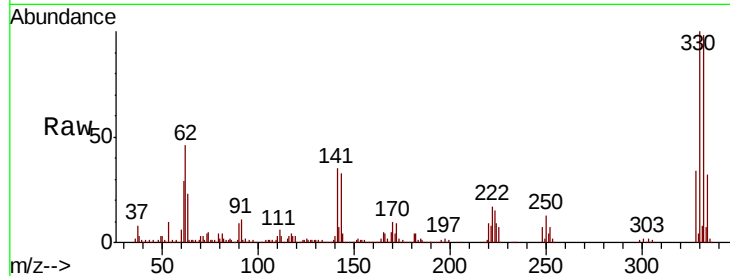




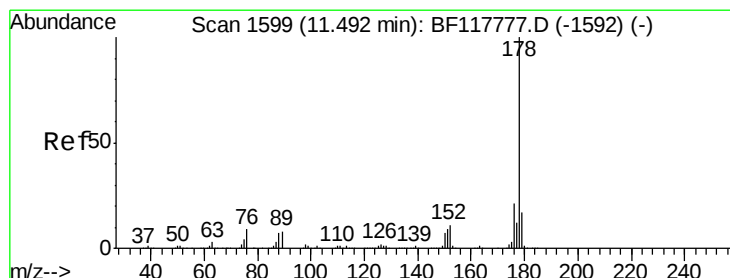
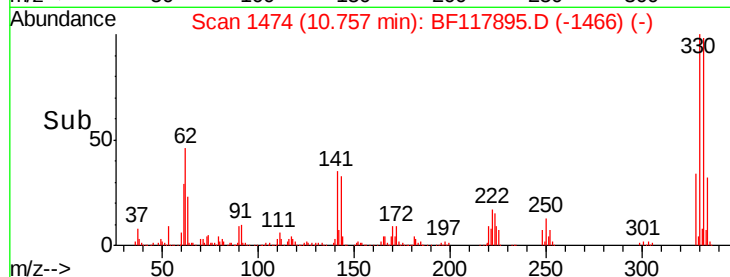
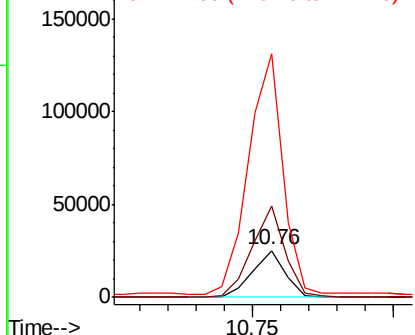
#67
 4-Bromophenyl-phenylether
 Concen: 3.213 ng
 RT: 10.76 min Scan# 1474
 Delta R.T. -0.25 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:248 Resp: 20465
 Ion Ratio Lower Upper
 248 100
 250 196.2 76.6 115.0#
 141 522.8 55.9 83.9#

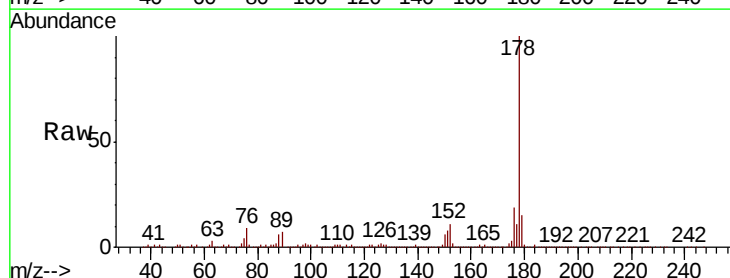


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

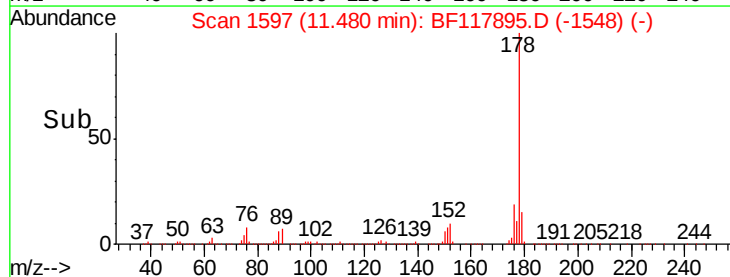
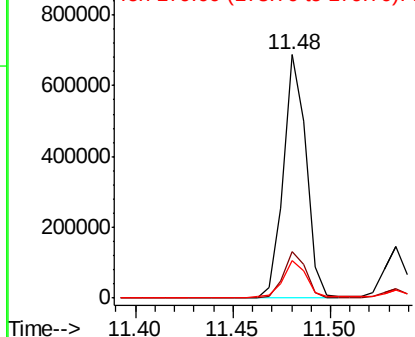


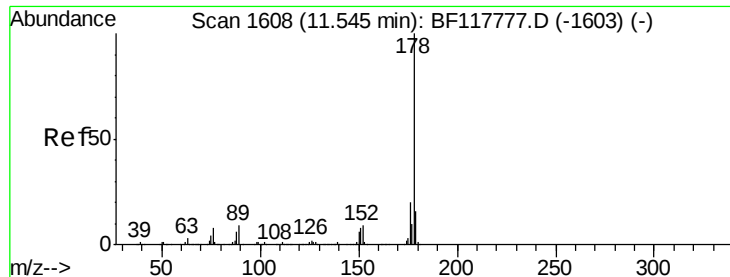
#71
 Phenanthrene
 Concen: 18.608 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Tgt Ion:178 Resp: 552280
 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: 3.676 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Instrument :

BNA_F

ClientSampleId :

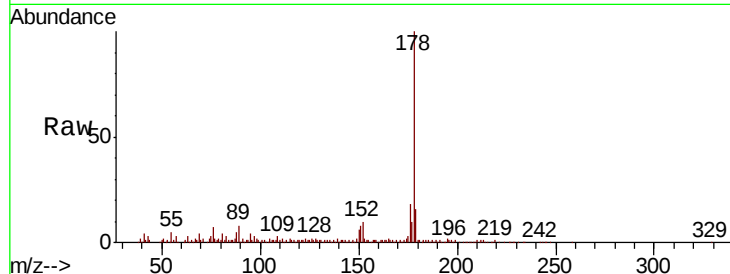
Tot Ion:178 Resp: 108178

Ion Ratio Lower Upper

178 100

176 18.2 16.1 24.1

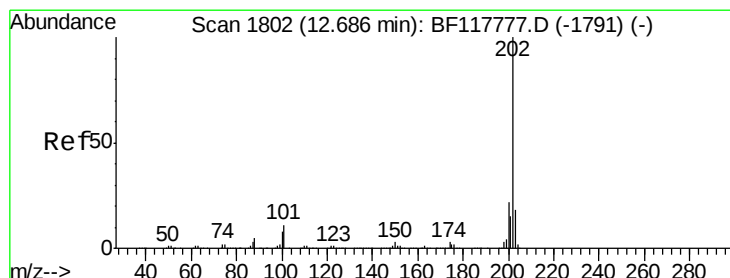
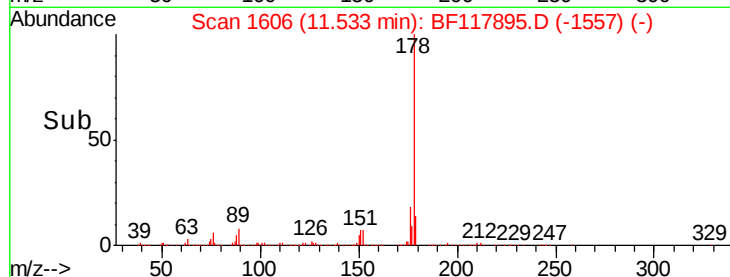
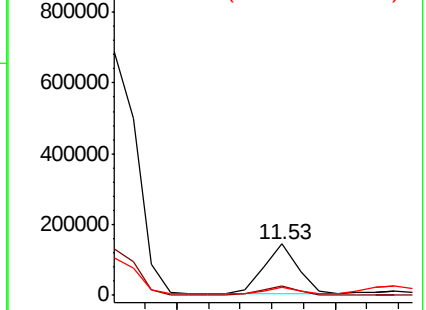
179 15.8 13.0 19.4



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



#75

Fluoranthene

Concen: 7.997 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

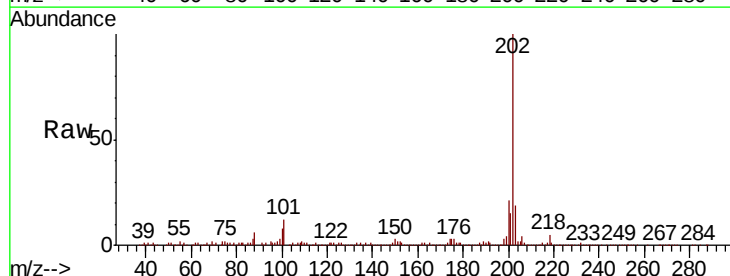
Tgt Ion:202 Resp: 383363

Ion Ratio Lower Upper

202 100

101 11.7 0.0 31.1

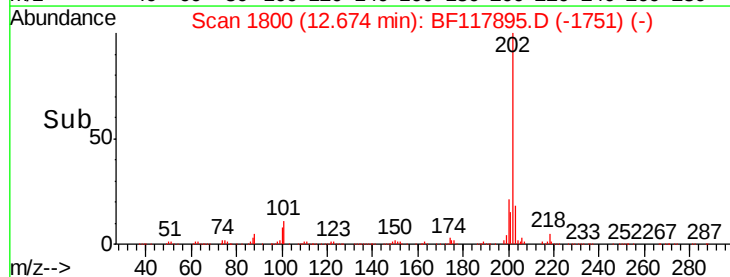
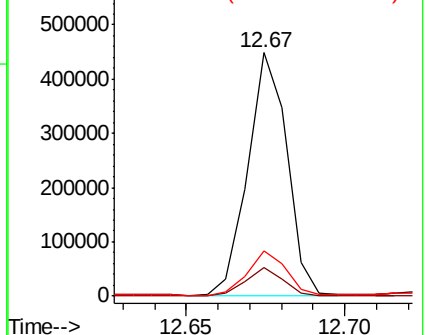
203 18.7 0.0 38.2

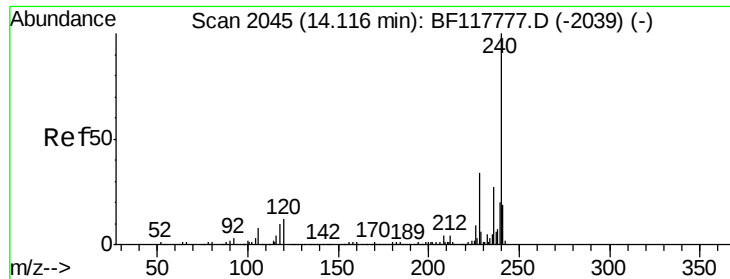


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

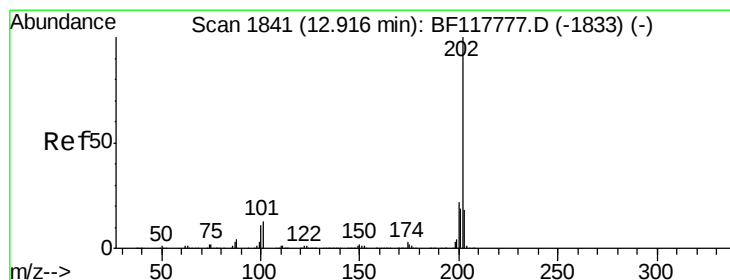
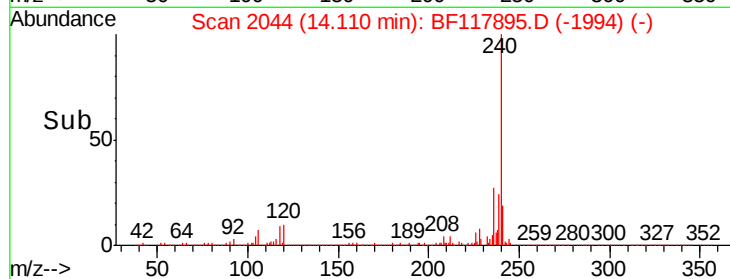
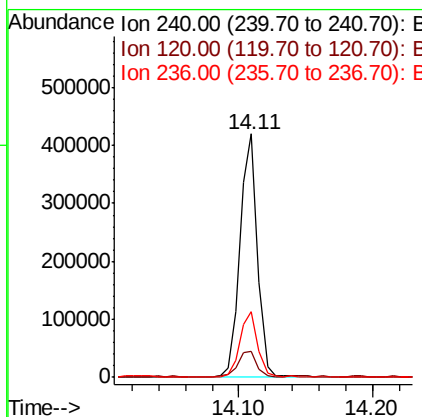
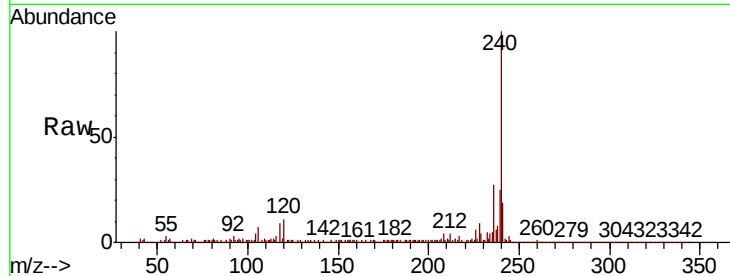




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.11 min Scan# 2044
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

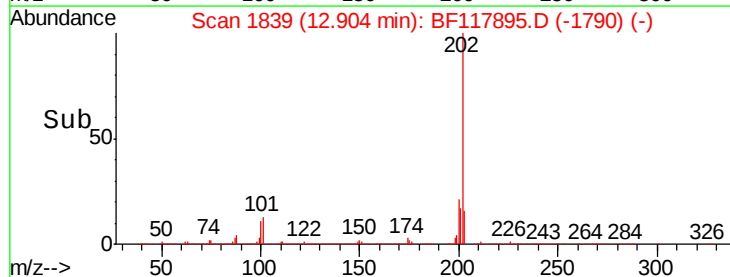
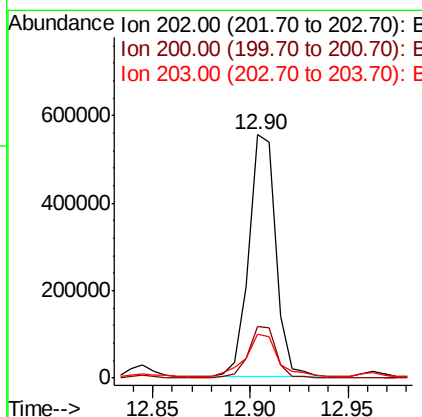
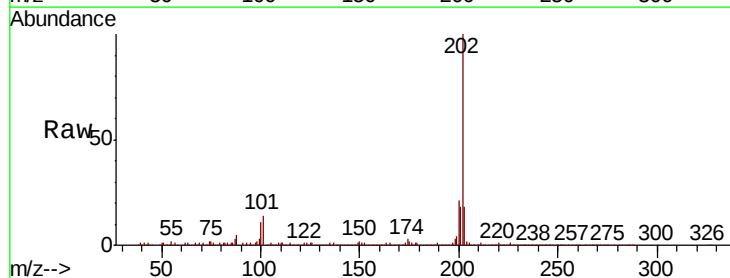
Instrument :
BNA_F
ClientSampleId :

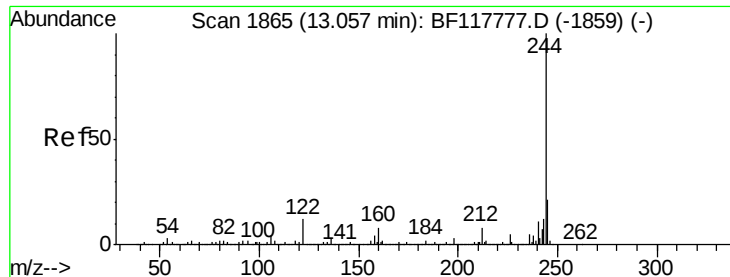
Tot Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.5	14.3
236	27.2	21.3	31.9



#78
Pyrene
Concen: 17.397 ng
RT: 12.90 min Scan# 1839
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.8	26.8
203	18.2	14.6	22.0

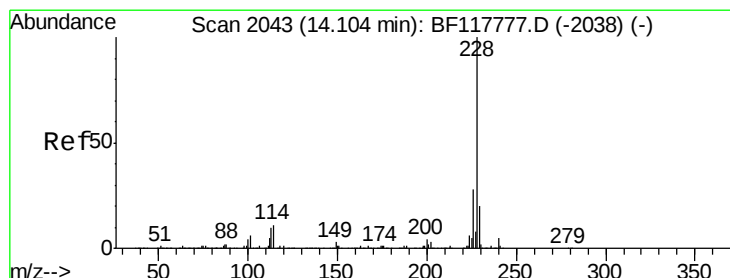
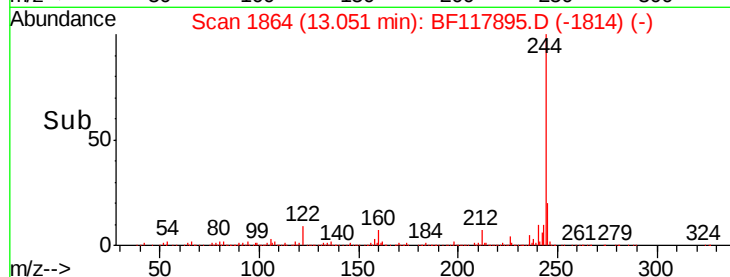
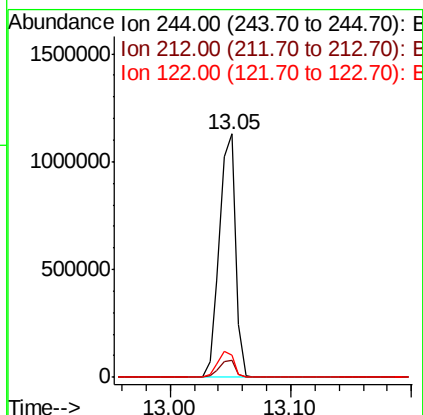
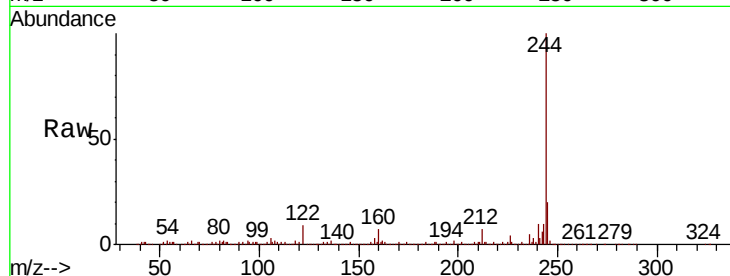




#79
 Terphenyl-d14
 Concen: 49.947 ng
 RT: 13.05 min Scan# 1864
 Delta R.T. -0.01 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

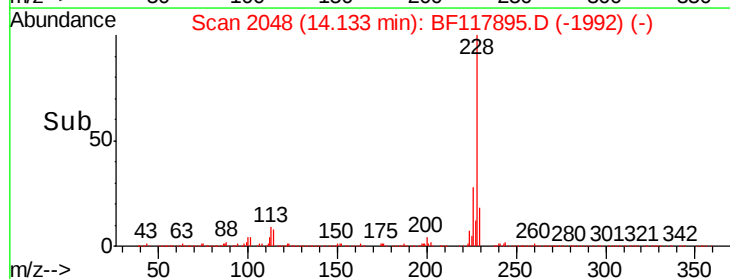
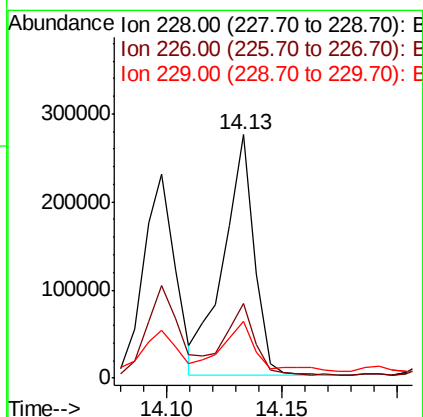
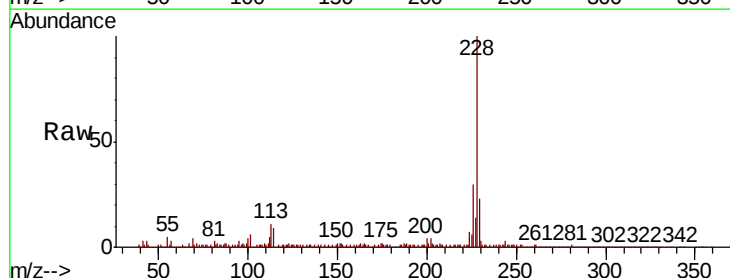
Instrument :
 BNA_F
 ClientSampleId :

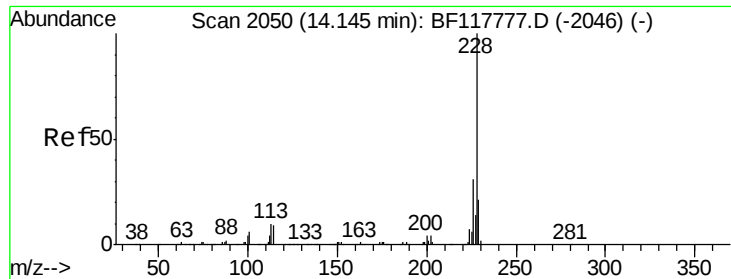
Tot Ion:244 Resp: 1038128
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.3 9.5
 122 9.3 9.4 14.2#



#81
 Benzo(a)anthracene
 Concen: 10.151 ng
 RT: 14.13 min Scan# 2048
 Delta R.T. 0.03 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Tgt Ion:228 Resp: 254821
 Ion Ratio Lower Upper
 228 100
 226 30.4 22.2 33.2
 229 23.1 15.9 23.9

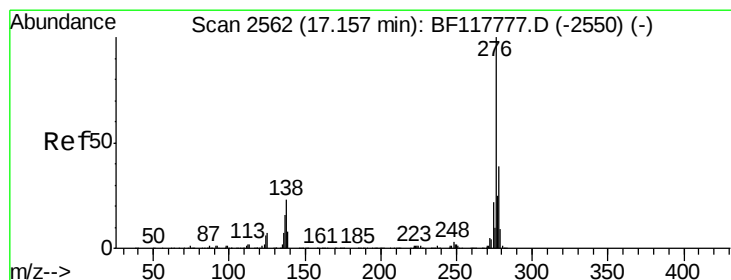
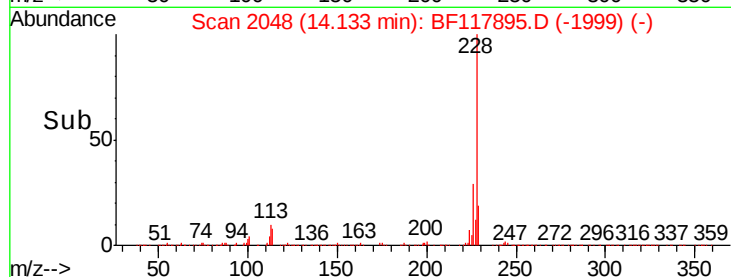
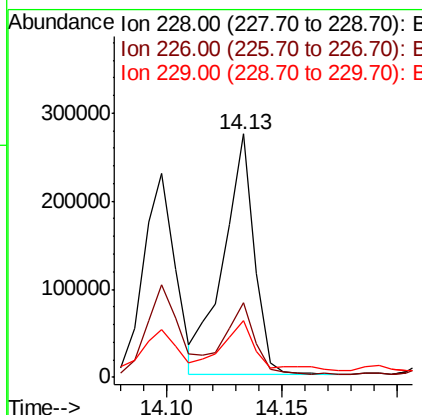
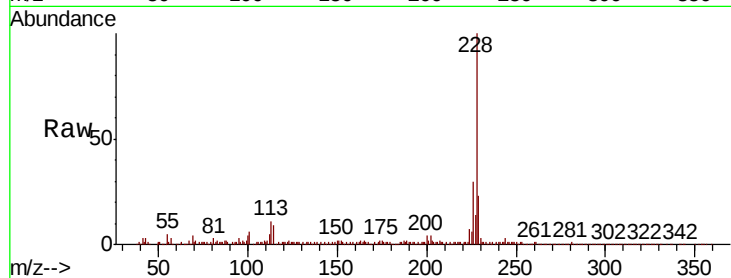




#83
Chrysene
Concen: 10.476 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

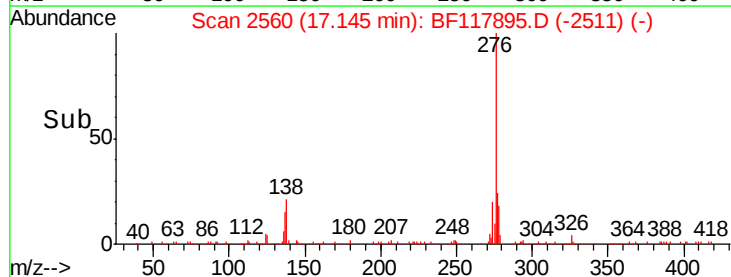
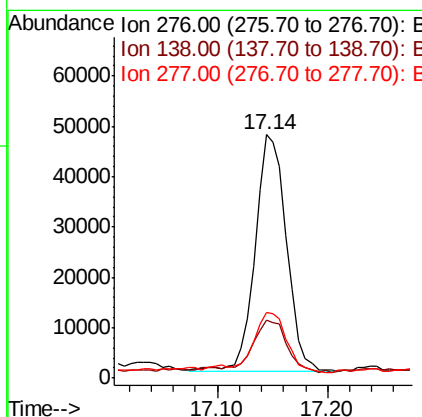
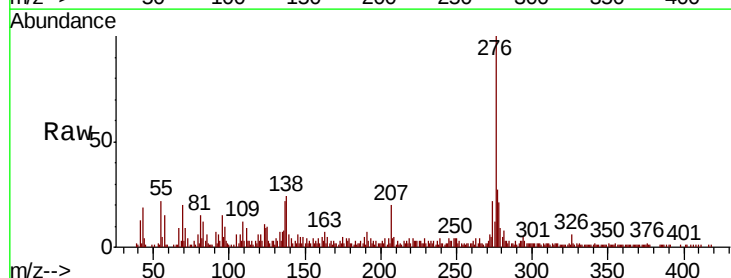
Instrument :
BNA_F
ClientSampleId :

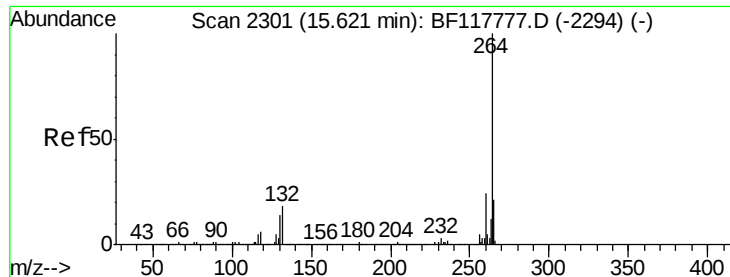
Tot	Ion:228	Resp:	254821
Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.4
229	23.1	16.6	25.0



#86
Indeno(1,2,3-cd)pyrene
Concen: 4.468 ng
RT: 17.14 min Scan# 2560
Delta R.T. -0.01 min
Lab File: BF117895.D
Acq: 20 Nov 2019 16:12

Tgt	Ion:276	Resp:	92493
Ion	Ratio	Lower	Upper
276	100		
138	24.3	20.9	31.3
277	27.0	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.62 min Scan# 2301

Delta R.T. -0.00 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Instrument :

BNA_F

ClientSampleId :

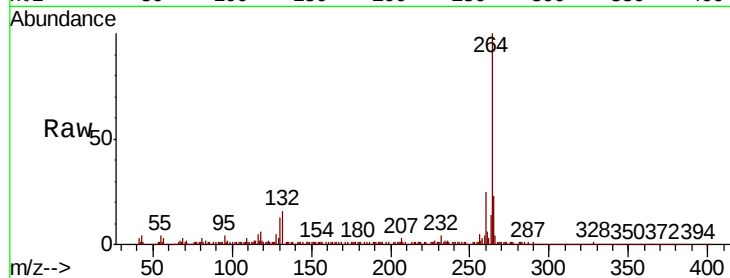
Tot Ion:264 Resp: 428684

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.0

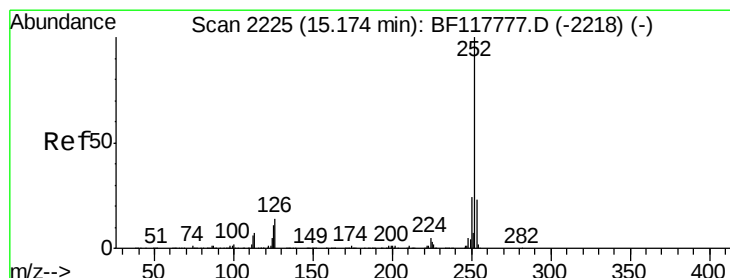
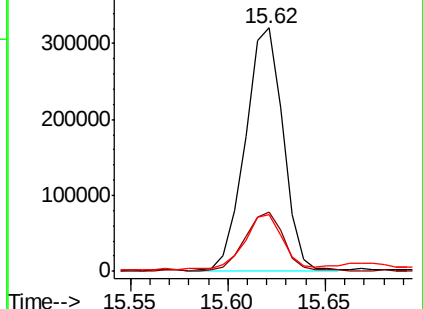
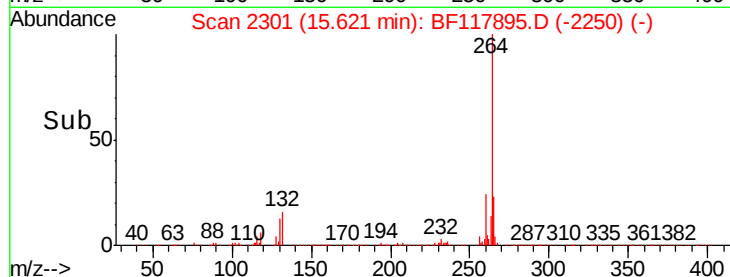
265 23.2 17.1 25.7



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: 11.512 ng

RT: 15.17 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

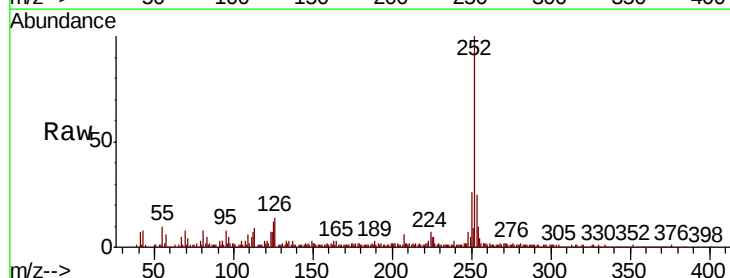
Tgt Ion:252 Resp: 320630

Ion Ratio Lower Upper

252 100

253 24.7 18.0 27.0

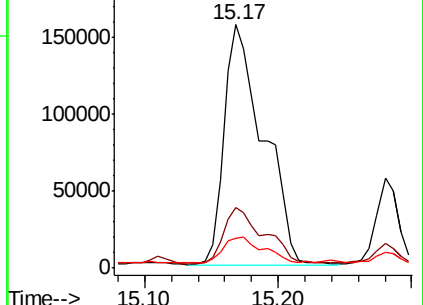
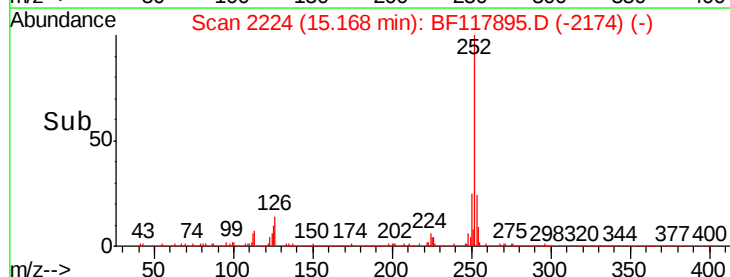
125 12.5 8.6 13.0

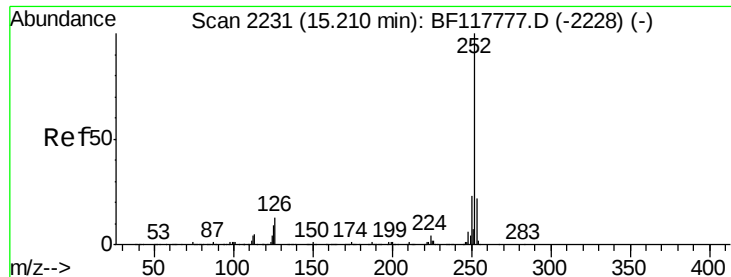


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 12.218 ng

RT: 15.17 min Scan# 2224

Delta R.T. -0.04 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

Instrument :

BNA_F

ClientSampleId :

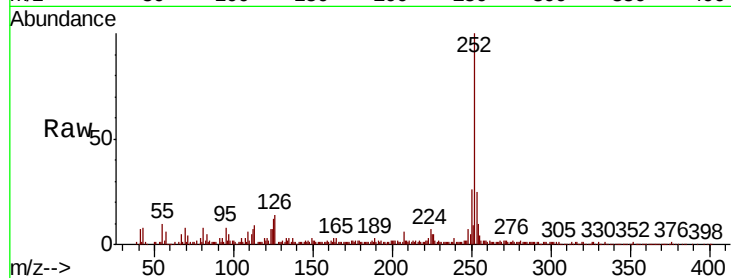
Tot Ion:252 Resp: 320630

Ion Ratio Lower Upper

252 100

253 24.7 17.5 26.3

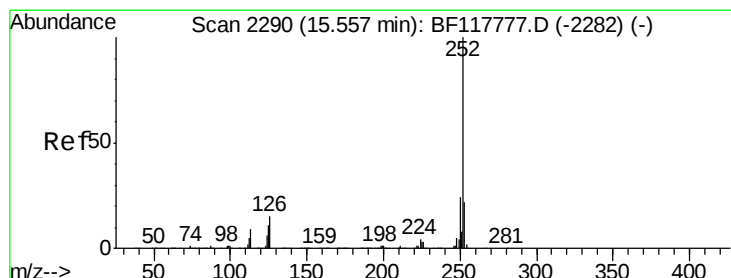
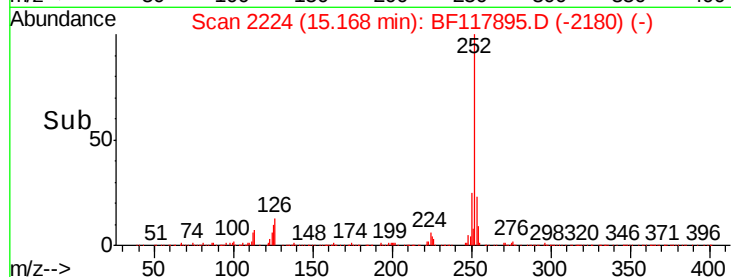
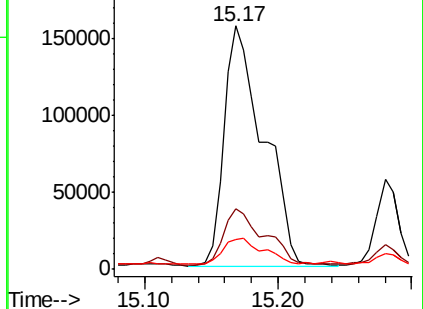
125 12.5 7.9 11.9#



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: 8.110 ng

RT: 15.55 min Scan# 2289

Delta R.T. -0.01 min

Lab File: BF117895.D

Acq: 20 Nov 2019 16:12

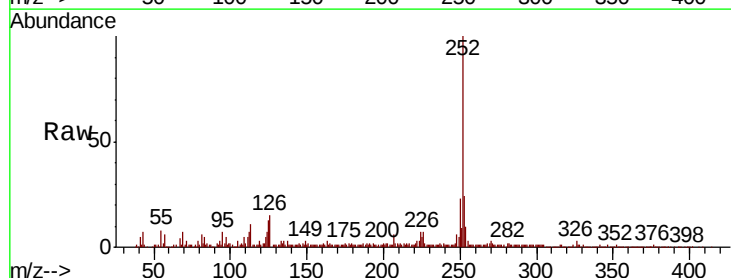
Tgt Ion:252 Resp: 198613

Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.6

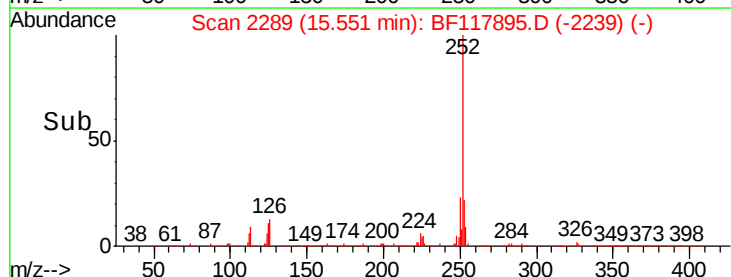
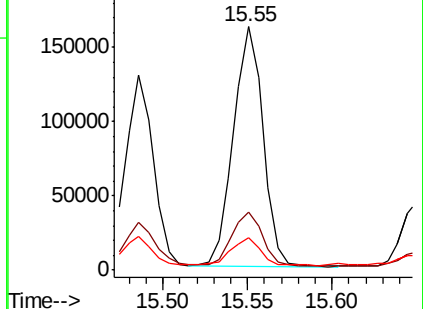
125 13.2 9.2 13.8

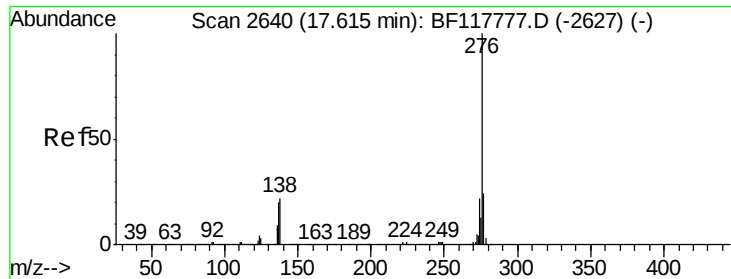


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

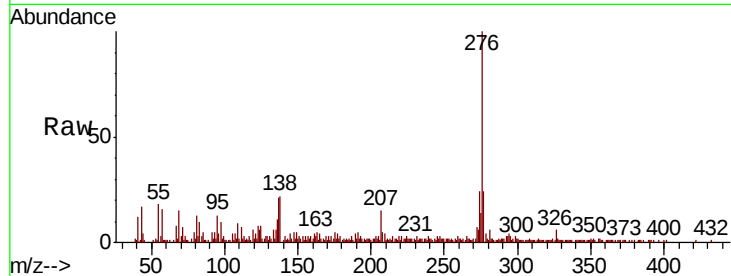




#92
 Benzo(a,h,i)perylene
 Concen: 5.182 ng
 RT: 17.62 min Scan# 2640
 Delta R.T. -0.00 min
 Lab File: BF117895.D
 Acq: 20 Nov 2019 16:12

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	21.9	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

