

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102218\
 Data File : BF110046.D
 Acq On : 22 Oct 2018 14:03
 Operator : JU/SJ
 Sample : J5198-03RE 2X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 23 02:08:25 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 16 14:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	234807	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	922150	20.00	ng	-0.02
39) Acenaphthene-d10	10.01	164	400456	20.00	ng	-0.02
64) Phenanthrene-d10	11.50	188	610435	20.00	ng	-0.01
76) Chrysene-d12	14.15	240	446919	20.00	ng	-0.01
87) Perylene-d12	15.67	264	258906	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.59	112	662102	44.70	ng	-0.01
7) Phenol-d6	6.59	99	846634	46.03	ng	-0.02
23) Nitrobenzene-d5	7.53	82	513336	37.50	ng	-0.02
42) 2,4,6-Tribromophenol	10.80	330	143976	41.53	ng	-0.02
45) 2-Fluorobiphenyl	9.33	172	898978	35.82	ng	-0.01
79) Terphenyl-d14	13.09	244	619365	29.10	ng	-0.02

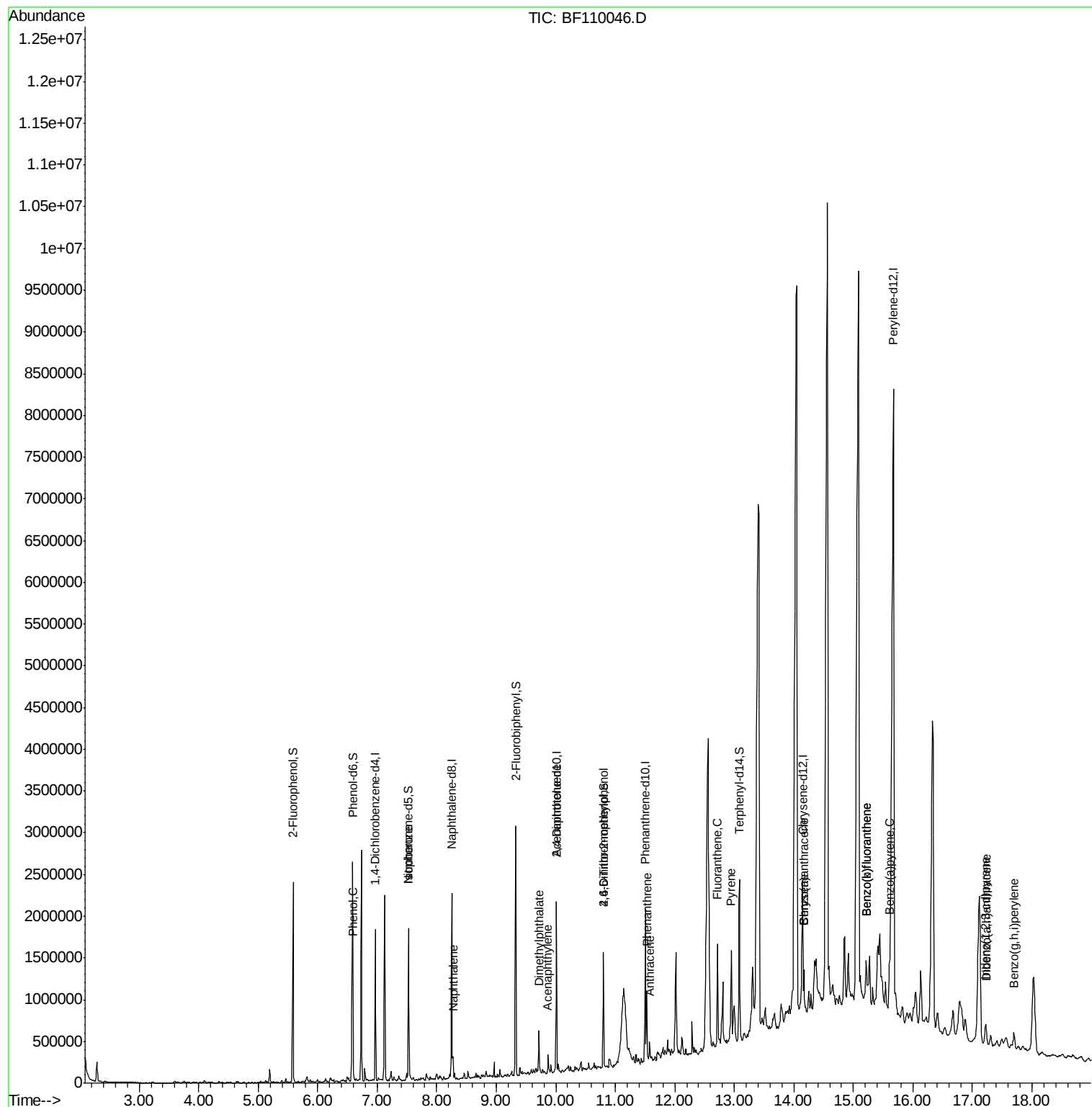
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.60	94	80646	4.061	ng	# 63
25) Isophorone	7.53	82	511532	19.018	ng	# 67
31) Naphthalene	8.27	128	104477	2.471	ng	98
49) Acenaphthylene	9.87	152	80439	2.107	ng	98
50) Dimethylphthalate	9.72	163	134927	4.758	ng	100
57) 2,4-Dinitrotoluene	10.01	165	53888	11.748	ng	# 19
65) 4,6-Dinitro-2-methylphenol	10.80	198	226	7.990	ng	# 1
71) Phenanthrene	11.53	178	256252	8.109	ng	99
72) Anthracene	11.57	178	73812	2.323	ng	97
75) Fluoranthene	12.72	202	412688	13.072	ng	99
78) Pyrene	12.95	202	438629	13.363	ng	99
81) Benzo(a)anthracene	14.17	228	205136	7.793	ng	94
83) Chrysene	14.17	228	205136	8.187	ng	97
86) Indeno(1,2,3-cd)pyrene	17.23	276	145733	7.224	ng	99
88) Benzo(b)fluoranthene	15.22	252	357205	23.931	ng	# 91
89) Benzo(k)fluoranthene	15.22	252	357205	24.279	ng	# 91
90) Benzo(a)pyrene	15.60	252	214243	15.606	ng	# 96
91) Dibenzo(a,h)anthracene	17.23	278	30006	2.466	ng	# 71
92) Benzo(a,h,i)perylene	17.70	276	168161	13.680	ng	94

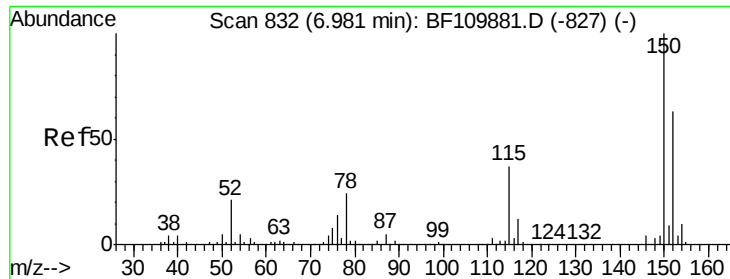
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
BNA_F
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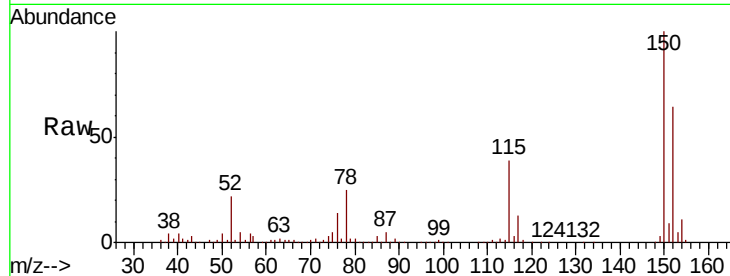


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. -0.01 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	122.7	184.1
115	62.1	49.1	73.7

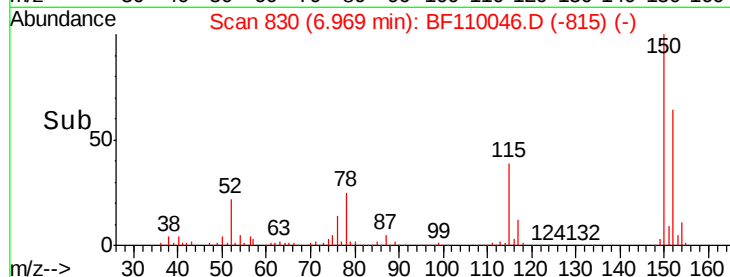
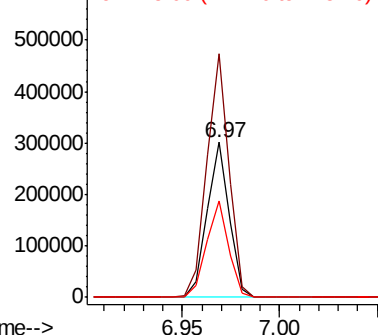


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

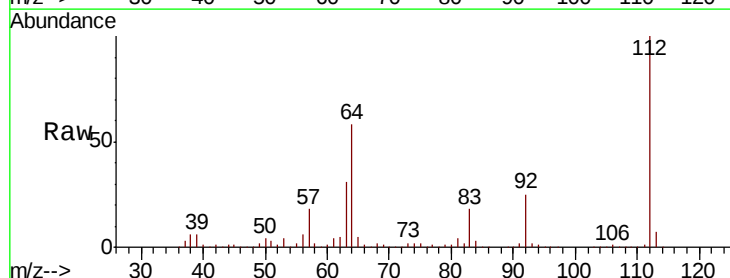
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 44.697 ng
RT: 5.59 min Scan# 595
Delta R.T. -0.01 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	44.1	66.1
63	30.7	23.7	35.5

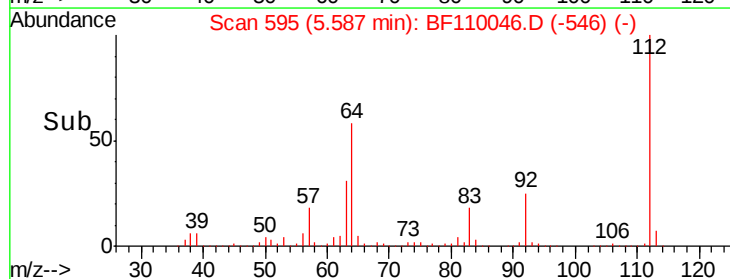
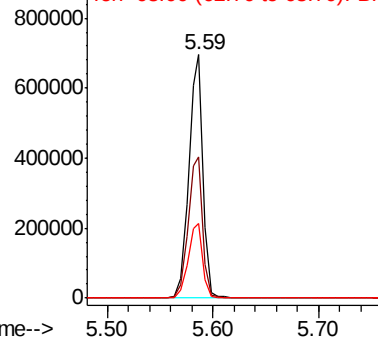


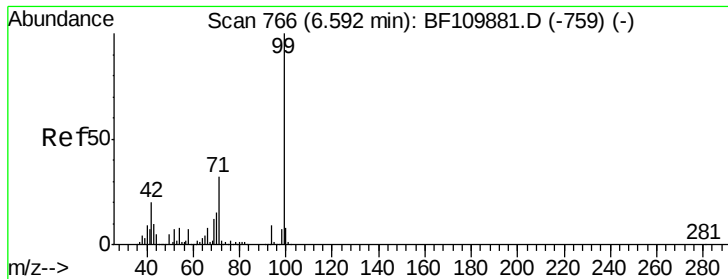
Abundance

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: 46.028 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

Instrument :

BNA_F

ClientSampleId :

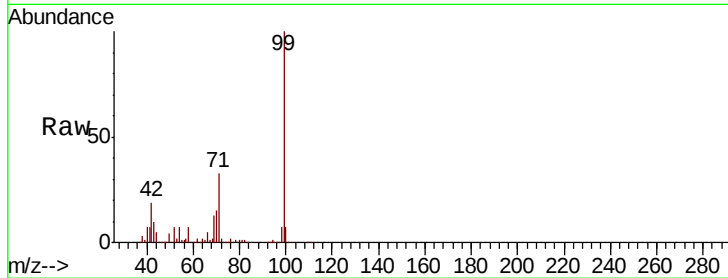
Tot Ion: 99 Resp: 846634

Ion Ratio Lower Upper

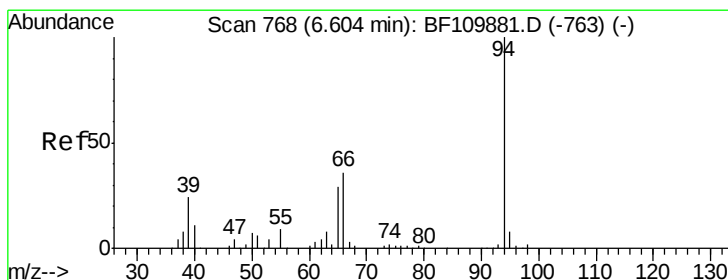
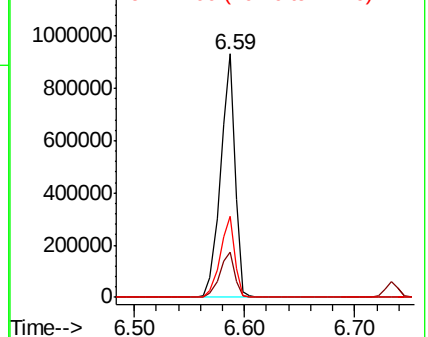
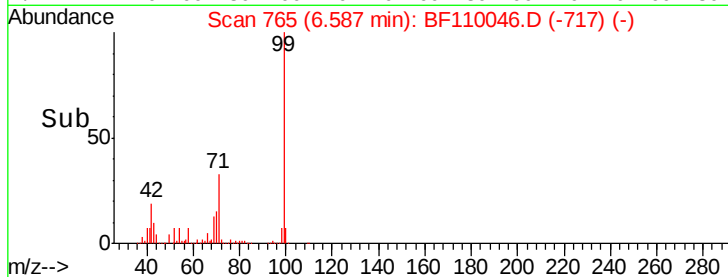
99 100

42 18.6 15.8 23.6

71 33.2 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 4.061 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

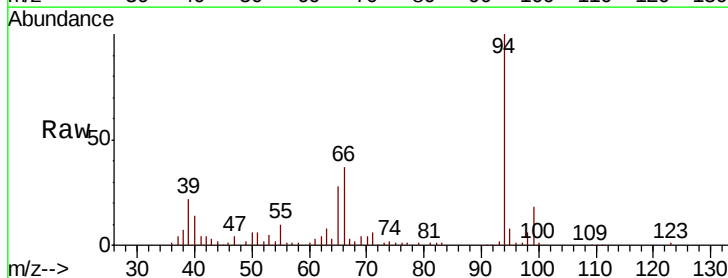
Tgt Ion: 94 Resp: 80646

Ion Ratio Lower Upper

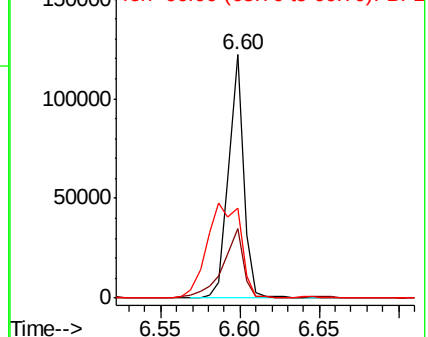
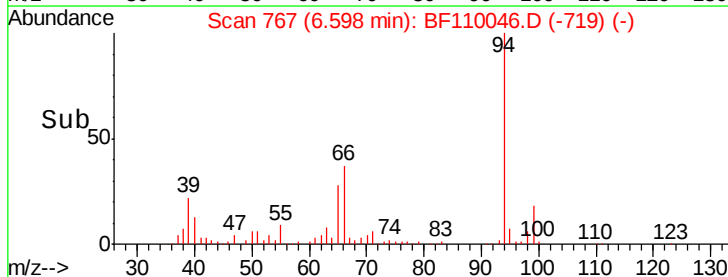
94 100

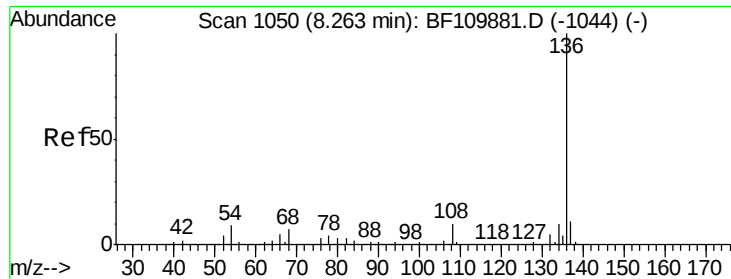
65 28.5 25.3 65.3

66 37.1 54.5 94.5#



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

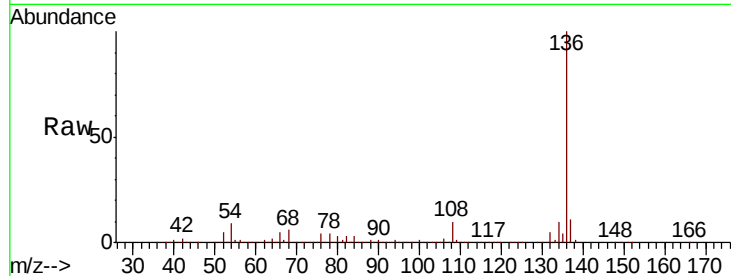




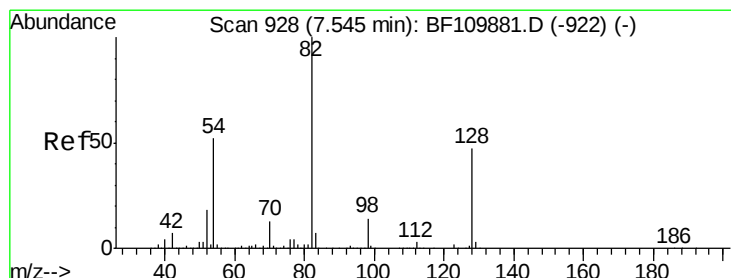
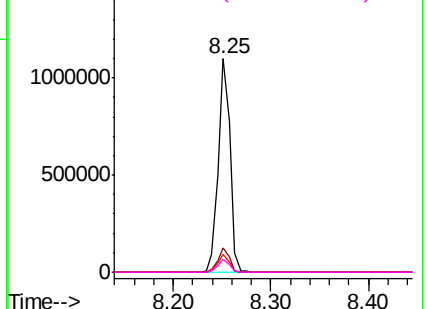
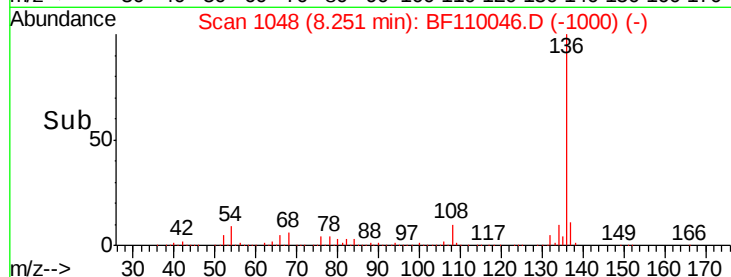
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	922150
Ion Ratio	Lower	Upper
136	100	
137	11.2	8.8 13.2
54	8.6	5.4 8.2#
68	5.9	4.2 6.2

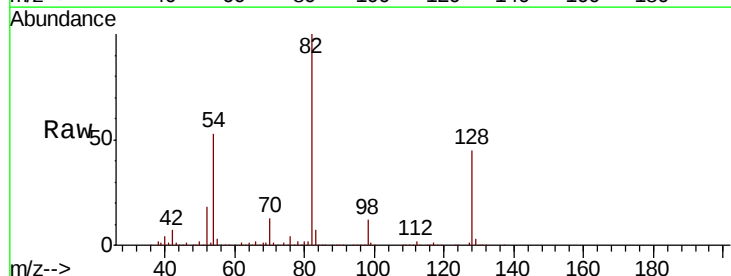


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

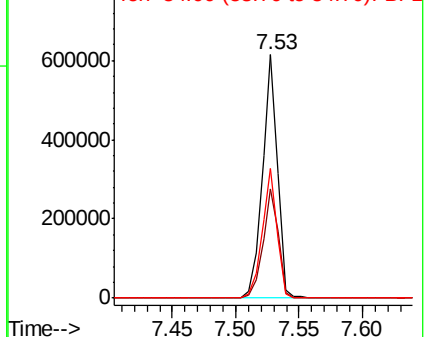
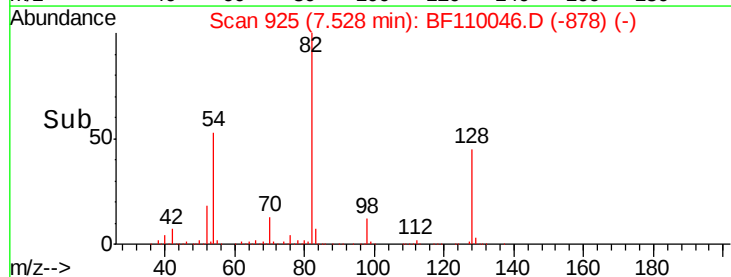


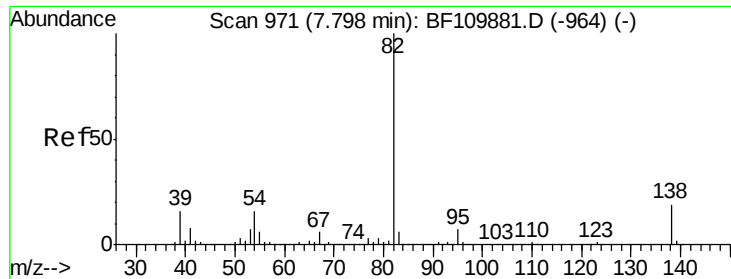
#23
Nitrobenzene-d5
Concen: 37.500 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion: 82	Resp:	513336
Ion Ratio	Lower	Upper
82	100	
128	44.9	34.2 51.2
54	53.1	38.6 58.0



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: 19.018 ng

RT: 7.53 min Scan# 925

Delta R.T. -0.28 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

Instrument :

BNA_F

ClientSampleId :

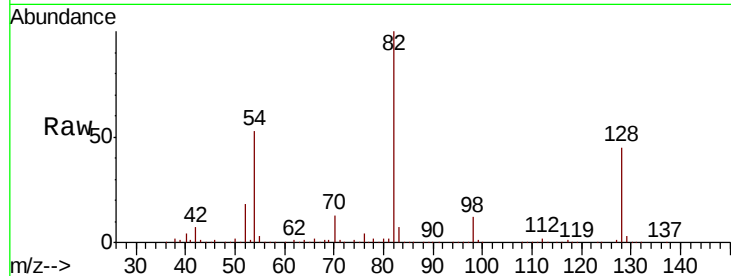
Tot Ion: 82 Resp: 511532

Ion Ratio Lower Upper

82 100

95 0.2 5.7 8.5#

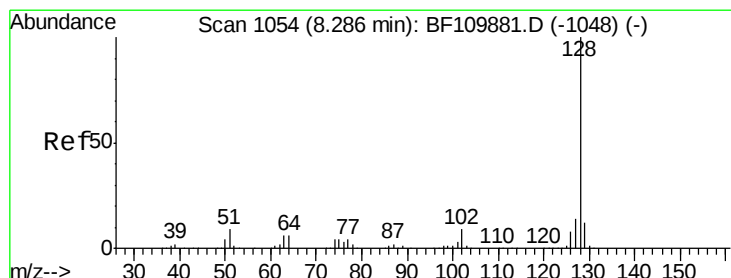
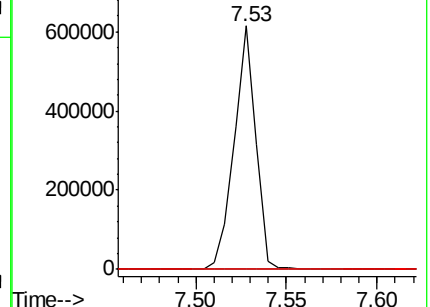
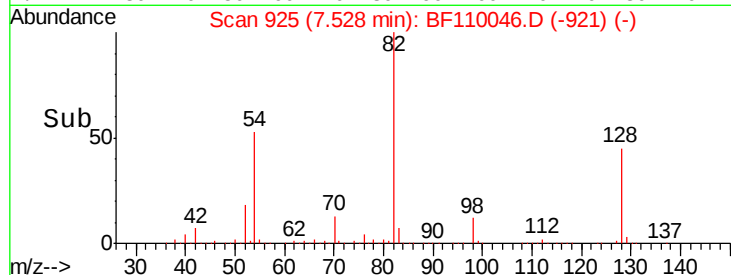
138 0.0 13.2 19.8#



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



#31

Naphthalene

Concen: 2.471 ng

RT: 8.27 min Scan# 1052

Delta R.T. -0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

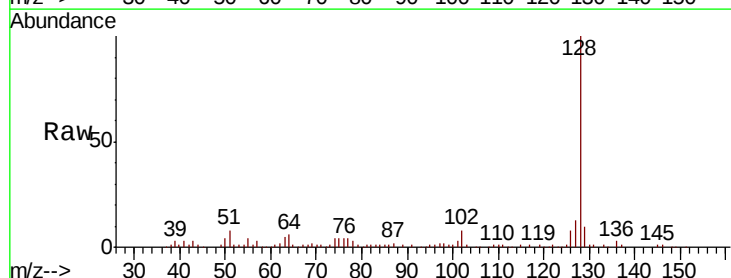
Tgt Ion: 128 Resp: 104477

Ion Ratio Lower Upper

128 100

129 10.1 8.8 13.2

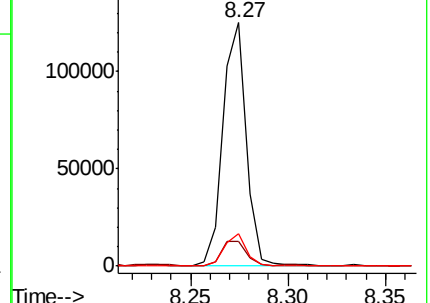
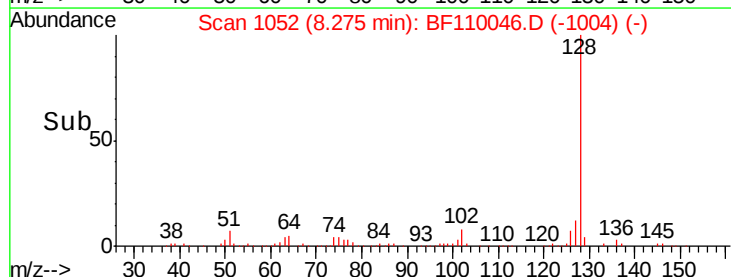
127 13.2 10.8 16.2

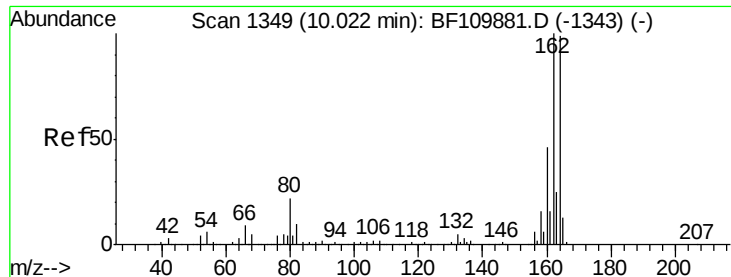


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

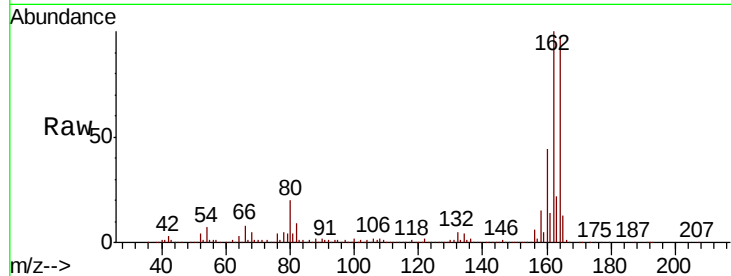




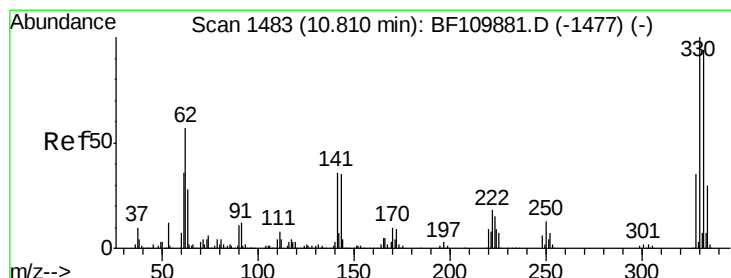
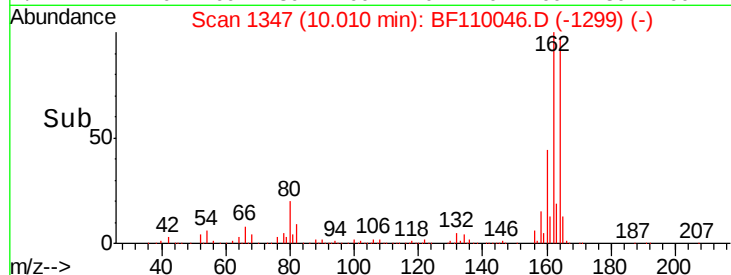
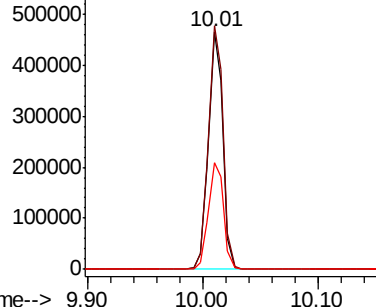
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 400456
Ion Ratio Lower Upper
164 100
162 102.6 83.0 124.6
160 45.2 37.0 55.6

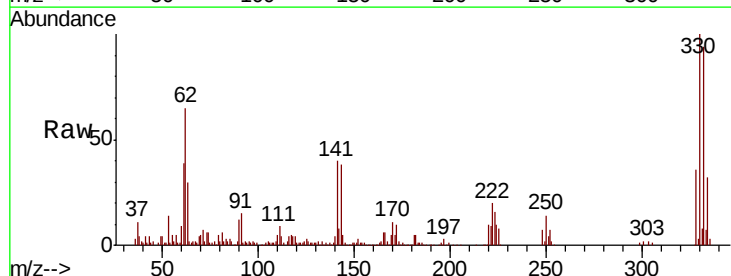


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

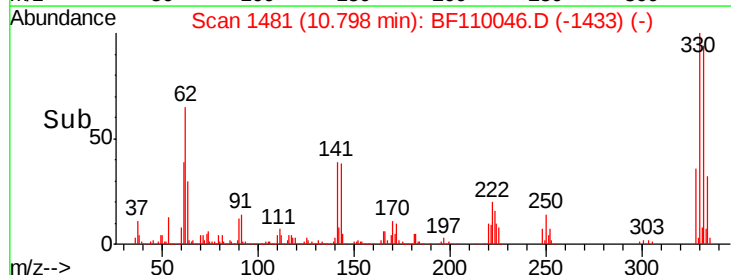
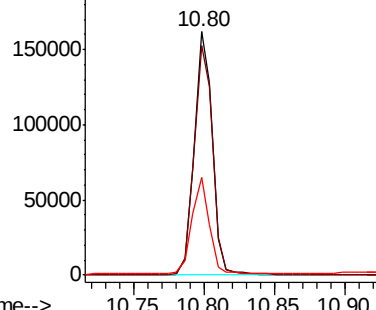


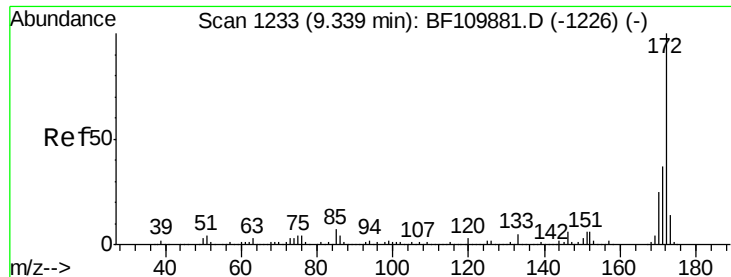
#42
2,4,6-Tribromophenol
Concen: 41.527 ng
RT: 10.80 min Scan# 1481
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion:330 Resp: 143976
Ion Ratio Lower Upper
330 100
332 96.9 77.1 115.7
141 38.7 27.0 40.4



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

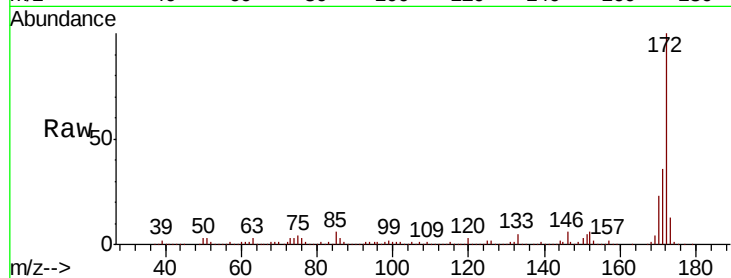




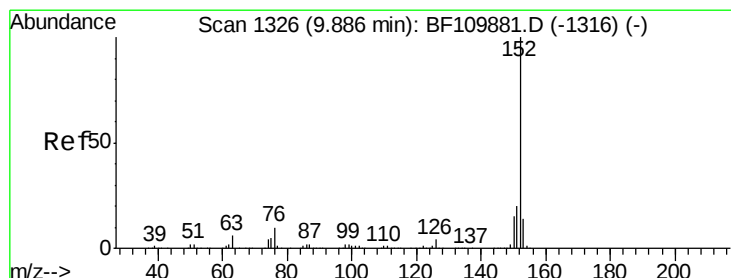
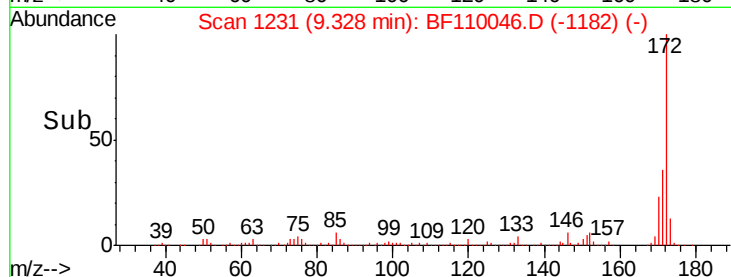
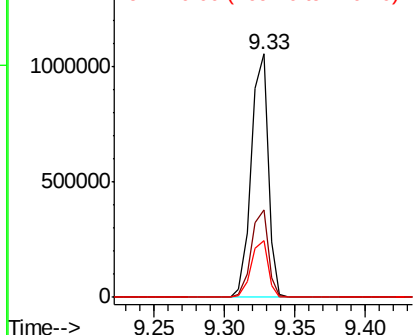
#45
2-Fluorobiphenyl
Concen: 35.821 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	23.4	19.7	29.5

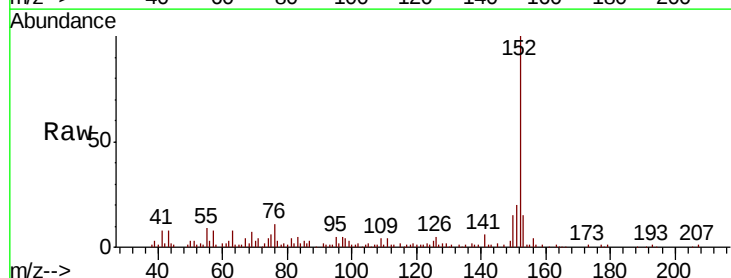


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

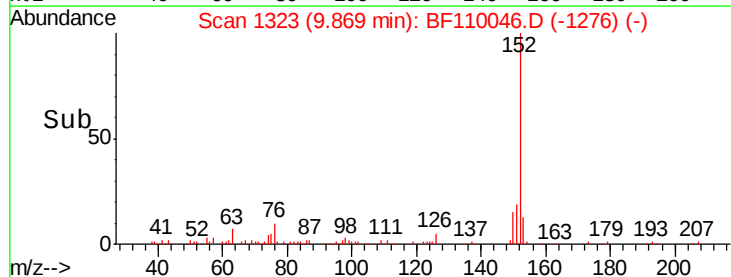
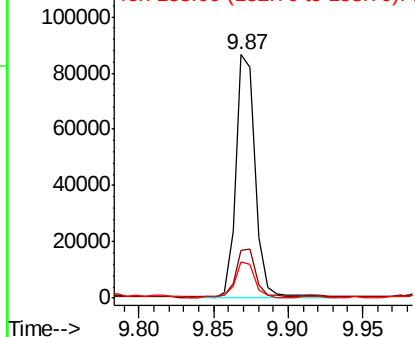


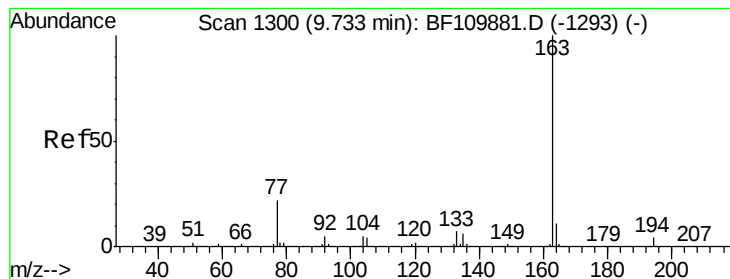
#49
Acenaphthylene
Concen: 2.107 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	14.8	10.4	15.6



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: 4.758 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF110046.D

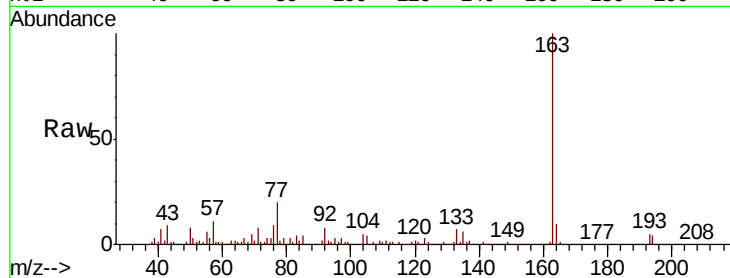
Acq: 22 Oct 2018 14:03

Instrument :

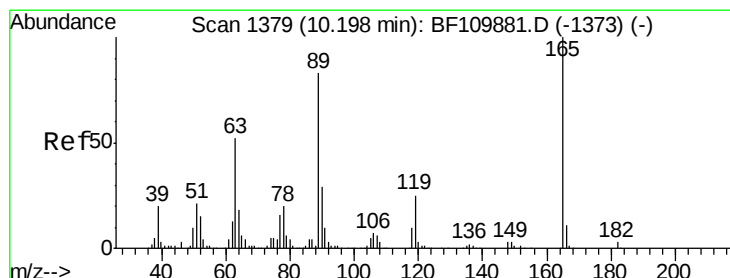
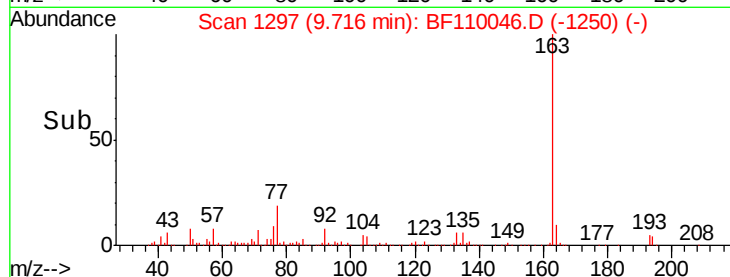
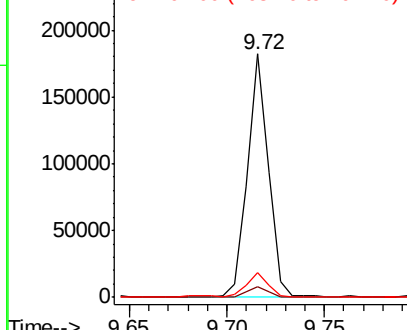
BNA_F

ClientSampled :

Tot Ion:163	Resp:	134927
Ion Ratio	Lower	Upper
163	100	
194	4.4	3.2 4.8
164	10.1	8.1 12.1



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



#57

2,4-Dinitrotoluene

Concen: 11.748 ng

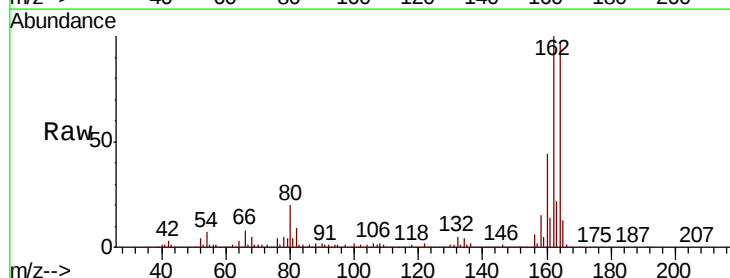
RT: 10.01 min Scan# 1347

Delta R.T. -0.20 min

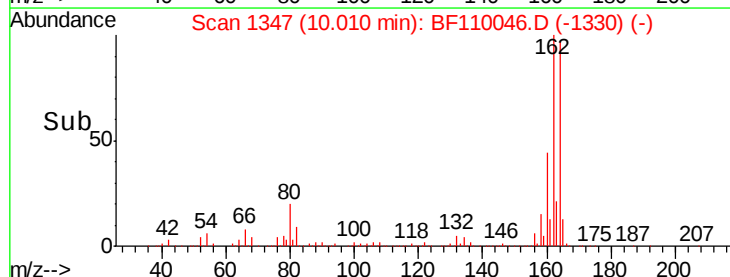
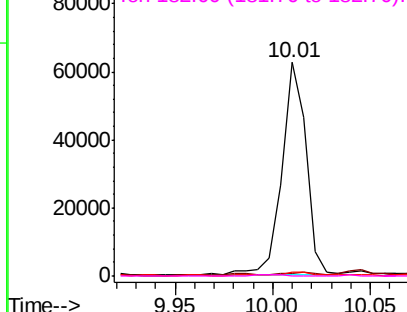
Lab File: BF110046.D

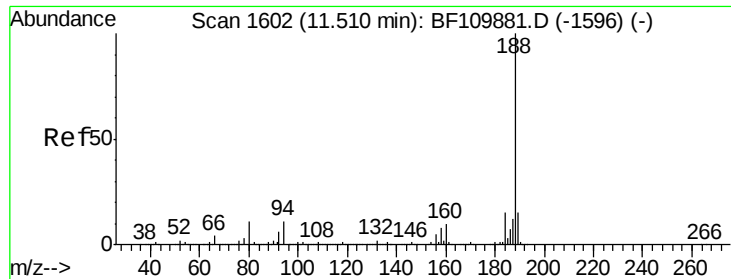
Acq: 22 Oct 2018 14:03

Tgt Ion:165	Resp:	53888
Ion Ratio	Lower	Upper
165	100	
63	1.4	44.8 67.2#
89	1.5	62.2 93.4#
182	0.0	2.1 3.1#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

Instrument :

BNA_F

ClientSampled :

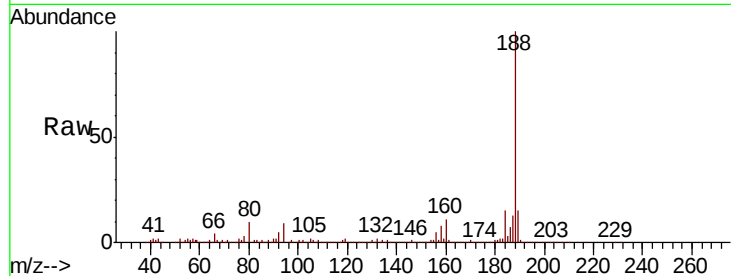
Tot Ion:188 Resp: 610435

Ion Ratio Lower Upper

188 100

94 9.3 7.2 10.8

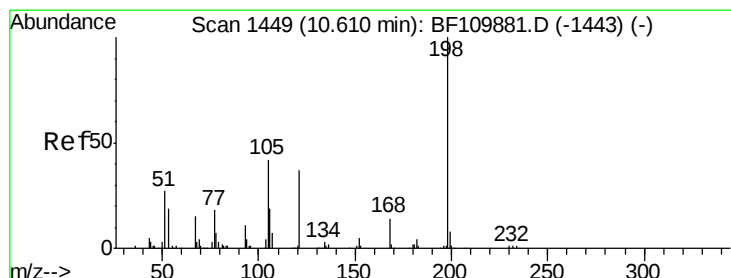
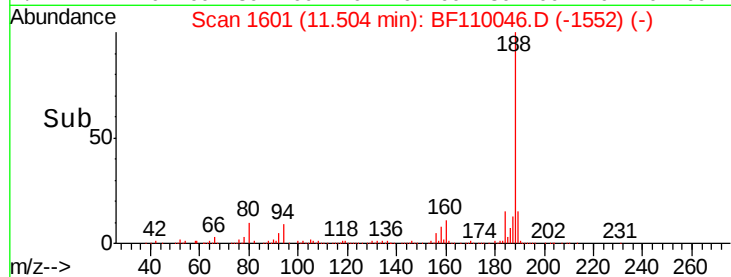
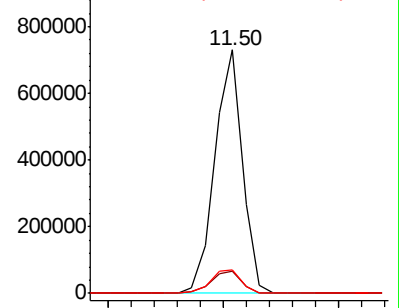
80 9.9 7.9 11.9



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



#65

4,6-Dinitro-2-methylphenol

Concen: 7.990 ng

RT: 10.80 min Scan# 1481

Delta R.T. 0.18 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

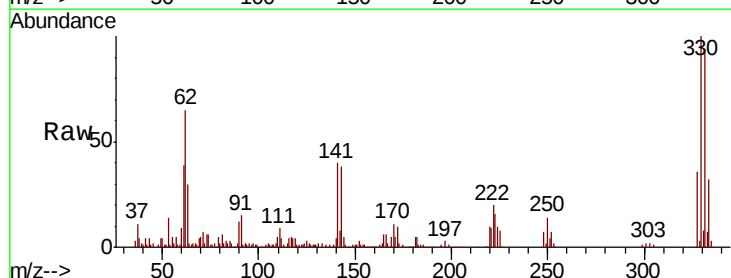
Tgt Ion:198 Resp: 226

Ion Ratio Lower Upper

198 100

51 274.3 22.8 62.8#

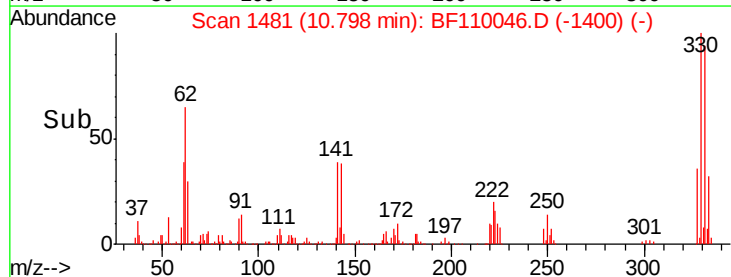
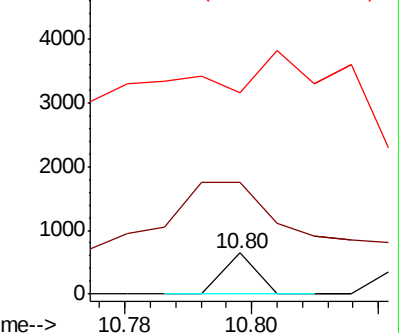
105 495.6 23.6 63.6#

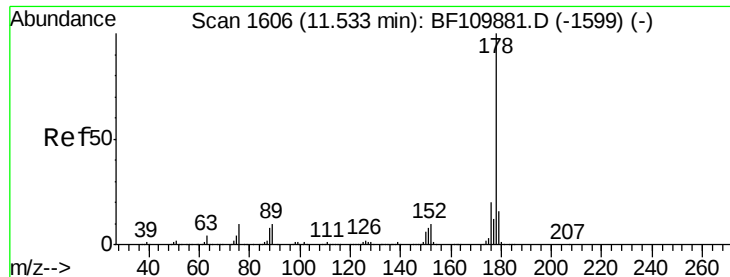


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

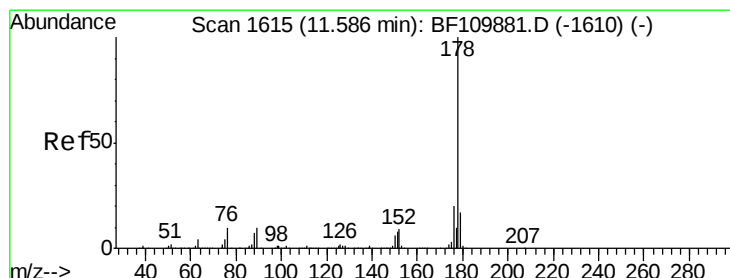
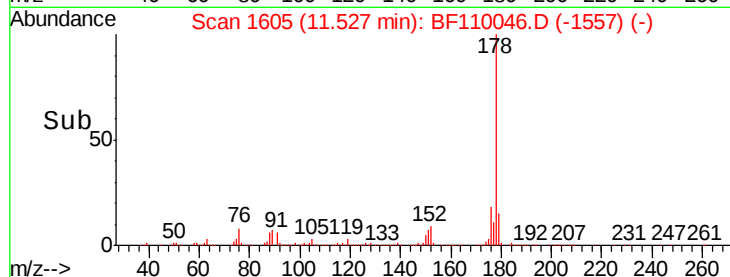
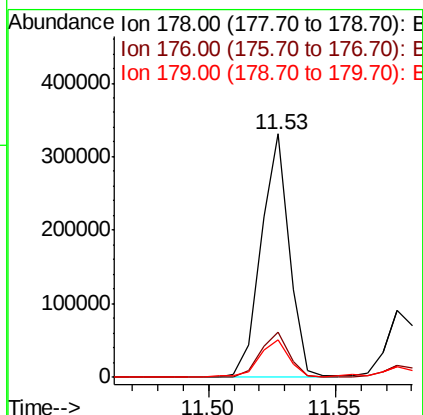
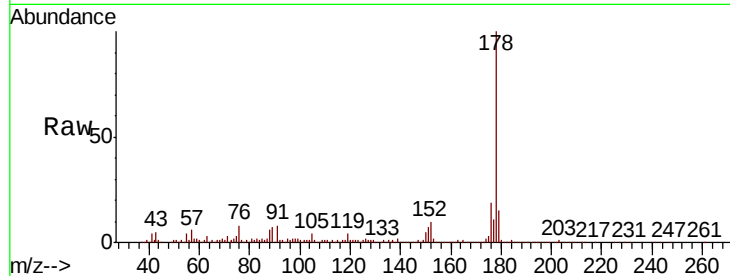




#71
Phenanthrene
Concen: 8.109 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

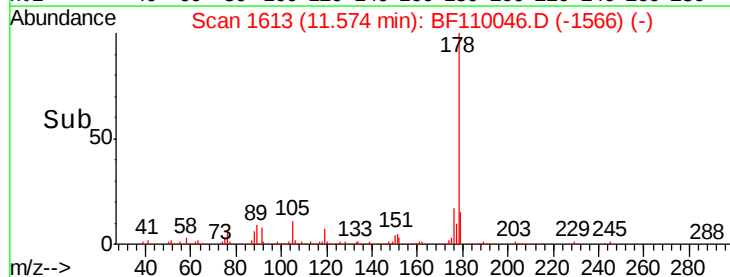
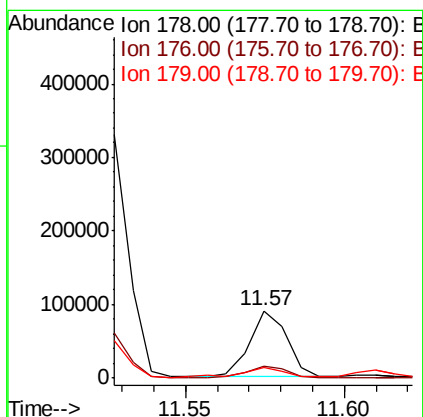
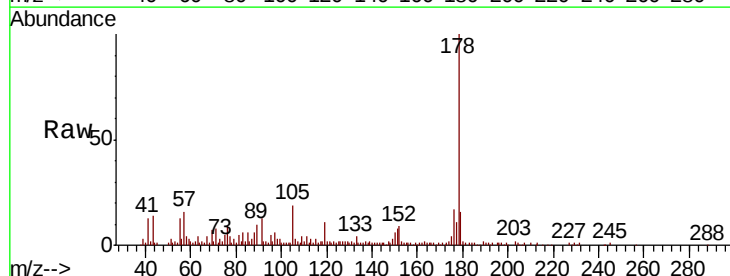
Instrument :
BNA_F
ClientSampleId :

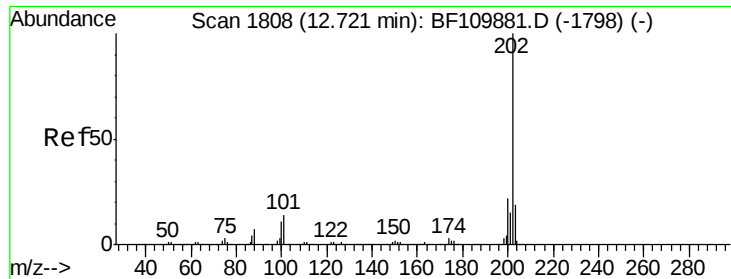
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.5	23.3
179	15.2	12.5	18.7



#72
Anthracene
Concen: 2.323 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.1	15.4	23.2
179	16.2	12.6	18.8





#75

Fluoranthene

Concen: 13.072 ng

RT: 12.72 min Scan# 1807

Delta R.T. -0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

Instrument :

BNA_F

ClientSampleId :

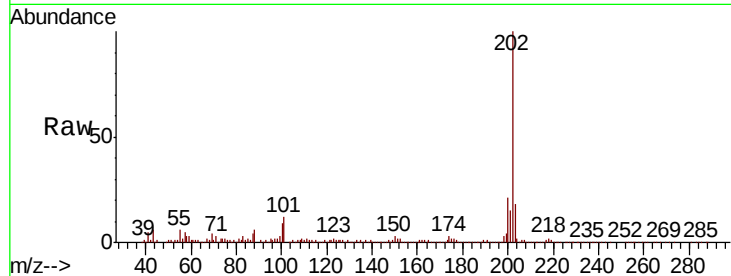
Tot Ion:202 Resp: 412688

Ion Ratio Lower Upper

202 100

101 12.2 0.0 31.4

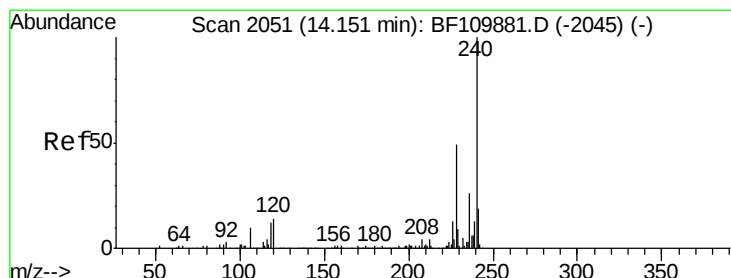
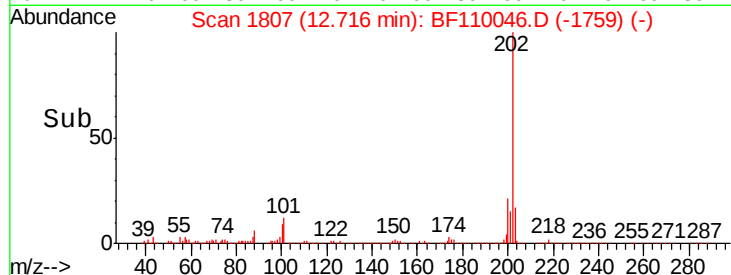
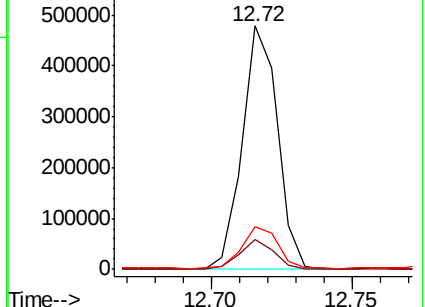
203 17.7 0.0 37.7



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: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

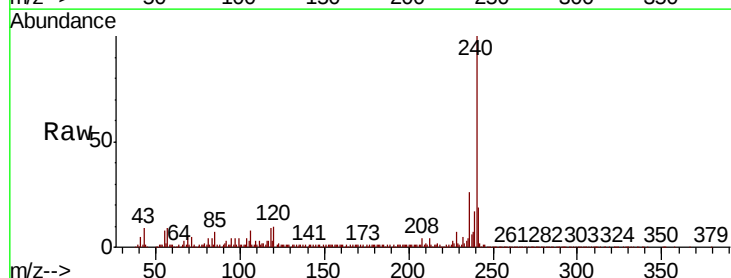
Tgt Ion:240 Resp: 446919

Ion Ratio Lower Upper

240 100

120 10.4 8.3 12.5

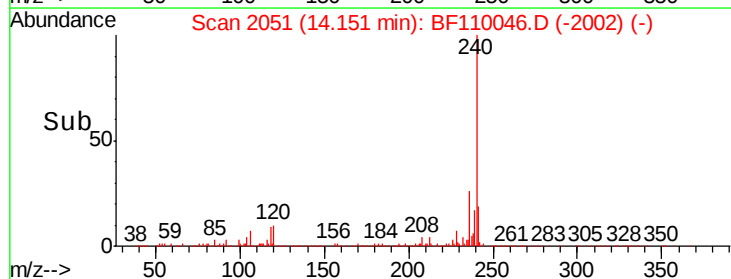
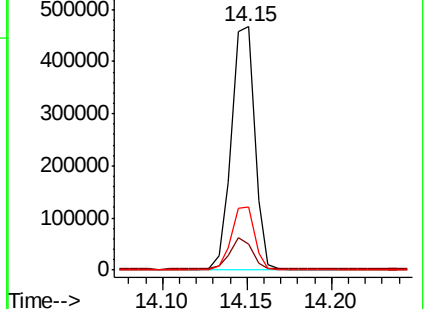
236 25.8 21.2 31.8

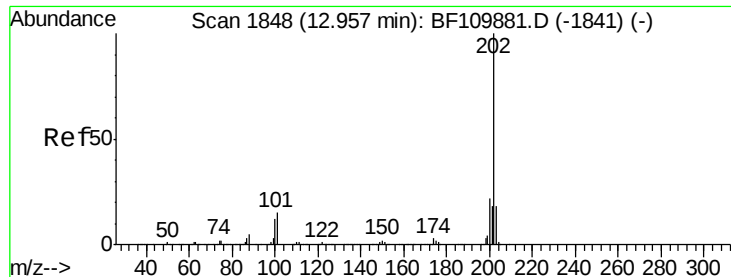


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

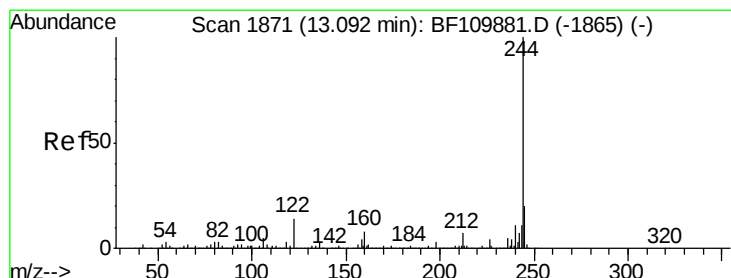
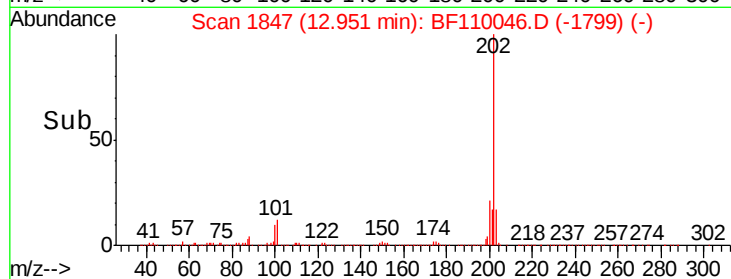
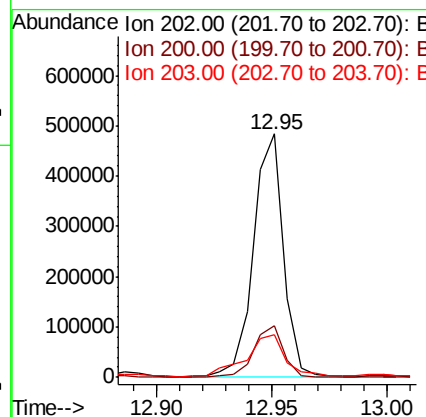
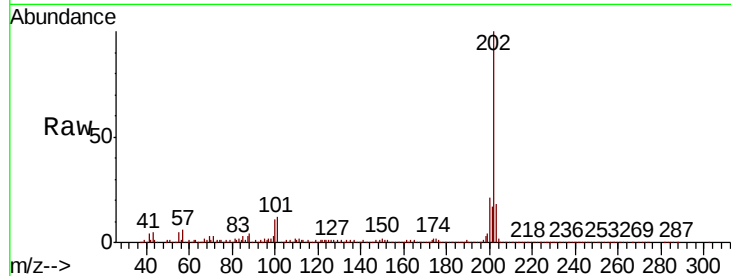




#78
Pvrene
Concen: 13.363 ng
RT: 12.95 min Scan# 1847
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

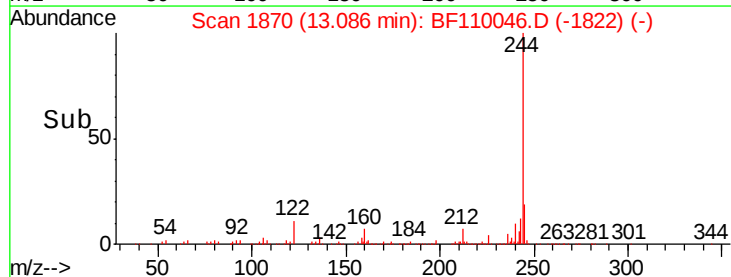
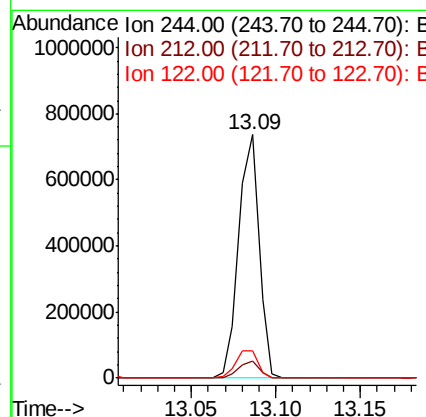
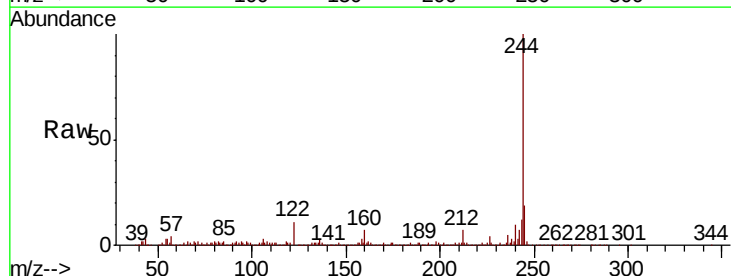
Instrument :
BNA_F
ClientSampleId :

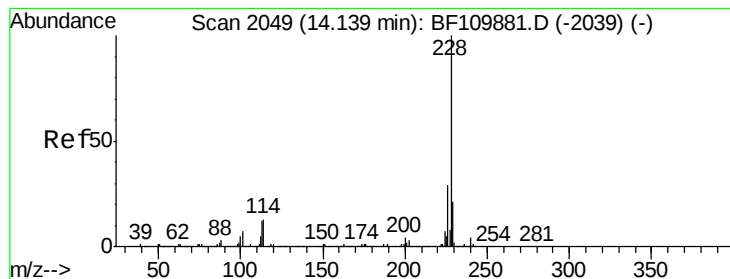
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.8	26.6
203	17.6	14.2	21.4



#79
Terphenyl-d14
Concen: 29.102 ng
RT: 13.09 min Scan# 1870
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.8	8.8
122	11.2	8.7	13.1





#81

Benzo(a)anthracene

Concen: 7.793 ng

RT: 14.17 min Scan# 2055

Delta R.T. 0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

Instrument :

BNA_F

ClientSampleId :

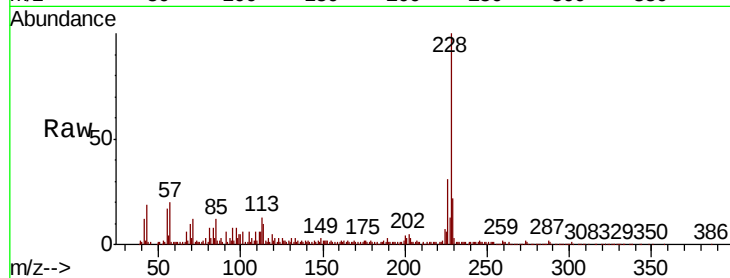
Tot Ion:228 Resp: 205136

Ion Ratio Lower Upper

228 100

226 30.5 22.1 33.1

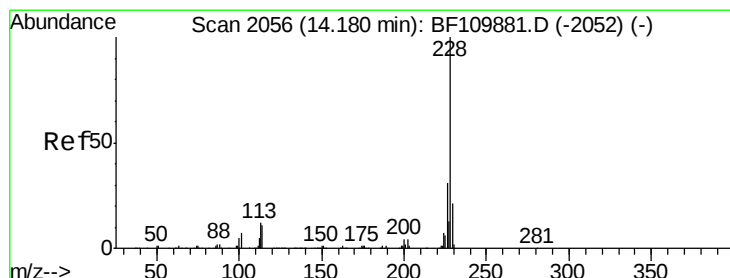
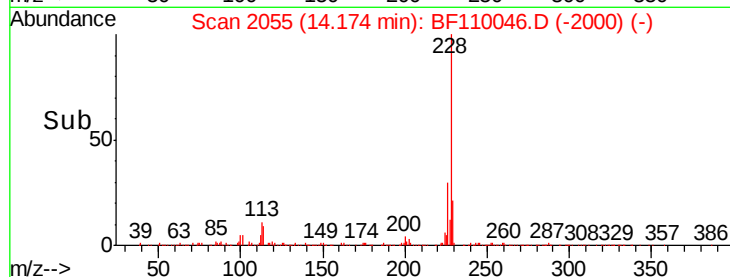
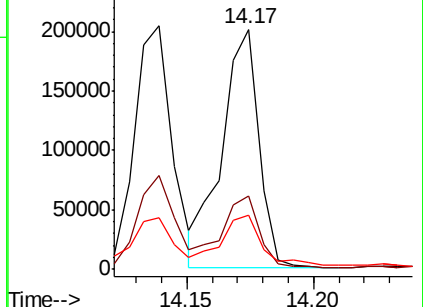
229 22.4 15.6 23.4



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: 8.187 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.02 min

Lab File: BF110046.D

Acq: 22 Oct 2018 14:03

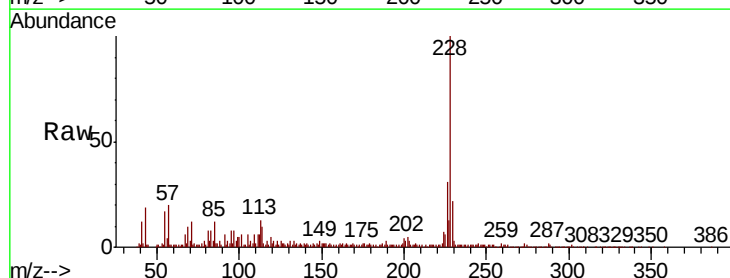
Tgt Ion:228 Resp: 205136

Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

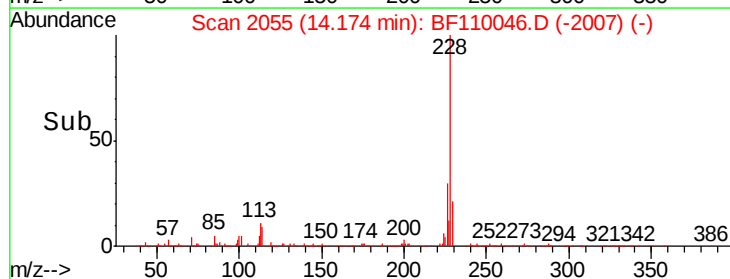
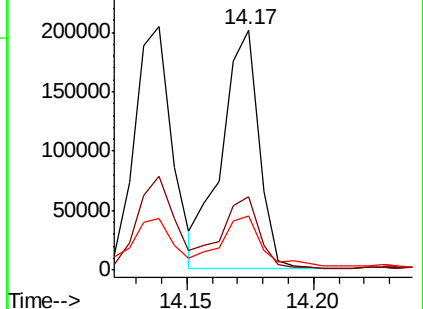
229 22.4 15.9 23.9

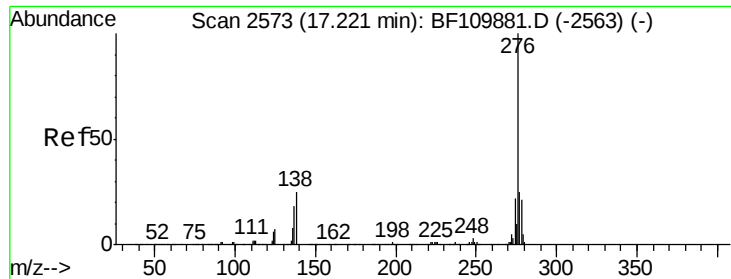


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

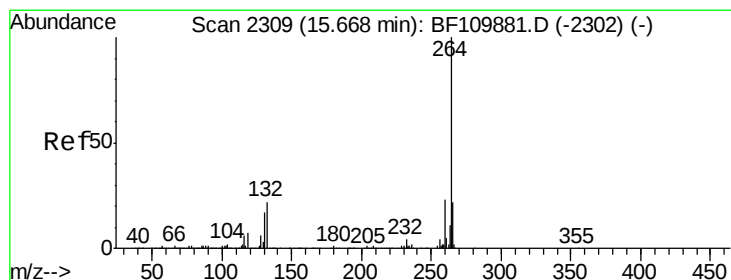
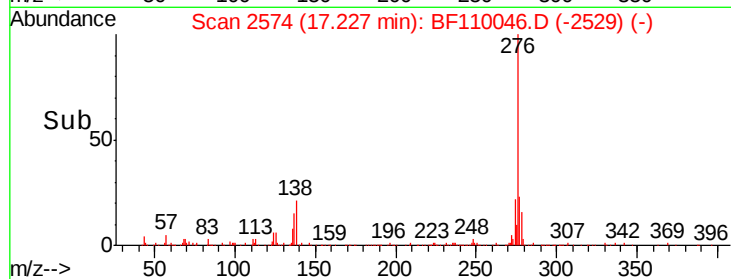
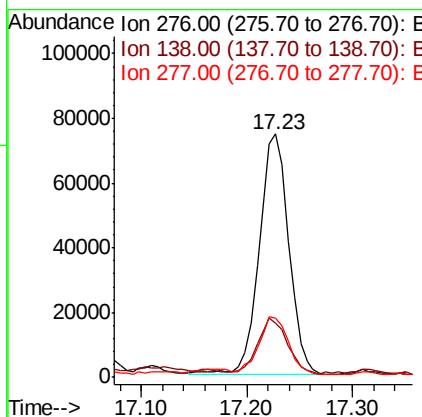
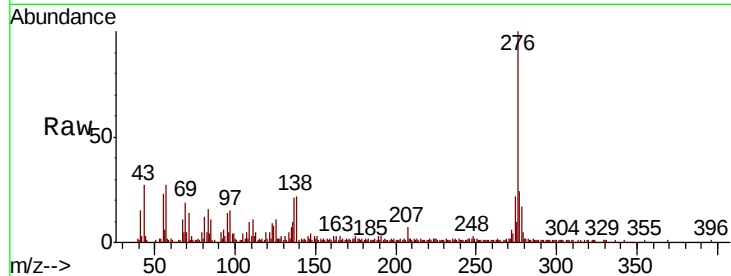




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 7.224 ng
 RT: 17.23 min Scan# 2574
 Delta R.T. -0.04 min
 Lab File: BF110046.D
 Acq: 22 Oct 2018 14:03

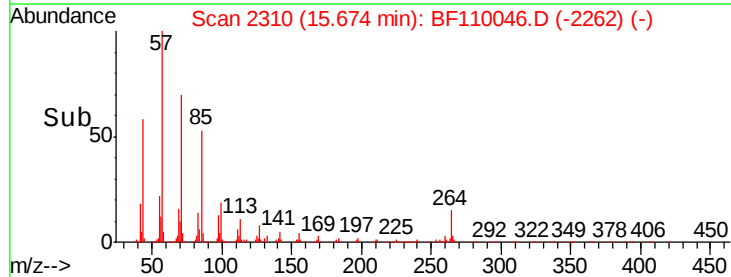
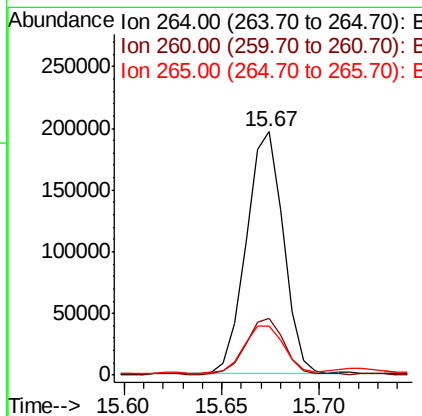
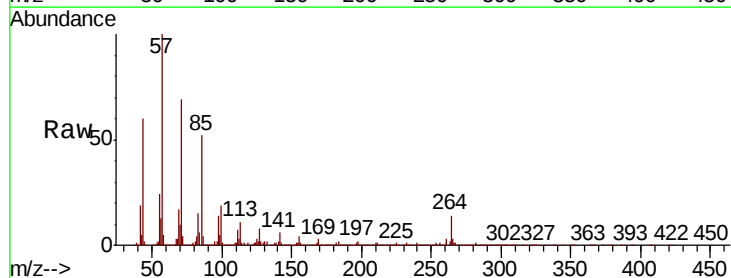
Instrument :
 BNA_F
 ClientSampleId :

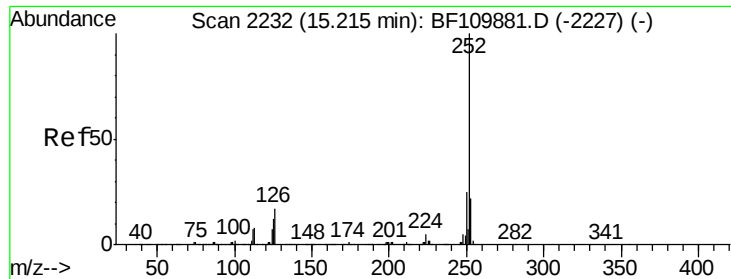
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.2	18.5	27.7
277	24.1	20.0	30.0



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.67 min Scan# 2310
 Delta R.T. -0.02 min
 Lab File: BF110046.D
 Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	20.3	16.7	25.1

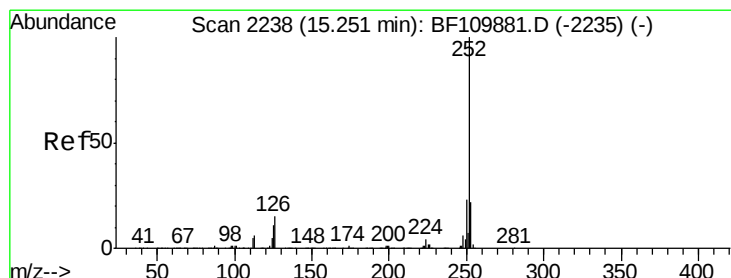
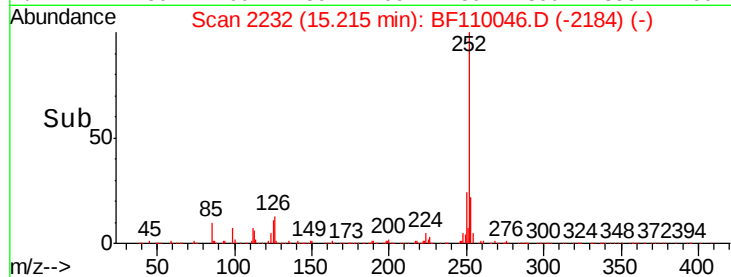
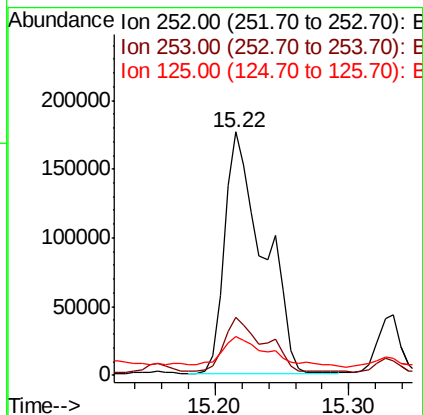
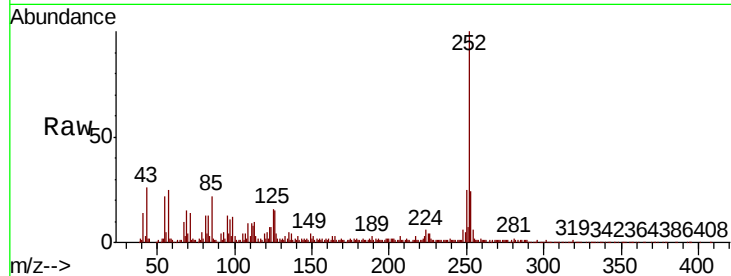




#88
Benzo(b)fluoranthene
Concen: 23.931 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

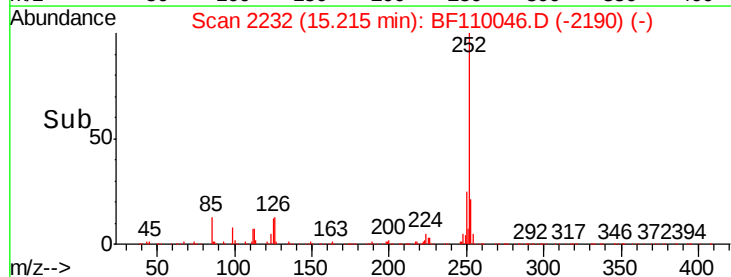
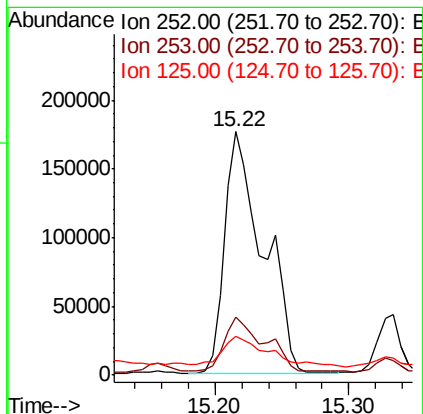
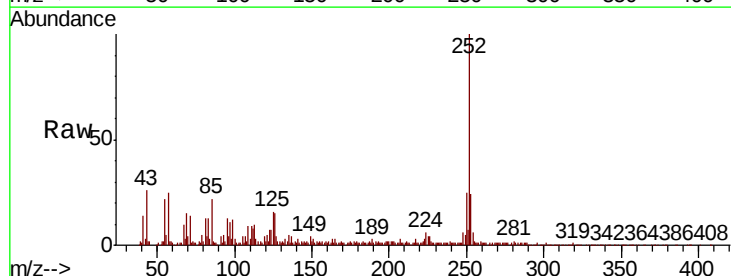
Instrument :
BNA_F
ClientSampleId :

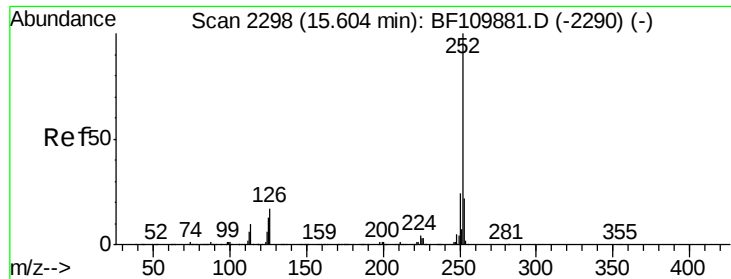
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.2	25.8
125	16.0	8.2	12.4



#89
Benzo(k)fluoranthene
Concen: 24.279 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.05 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.2	25.8
125	16.0	7.4	11.0

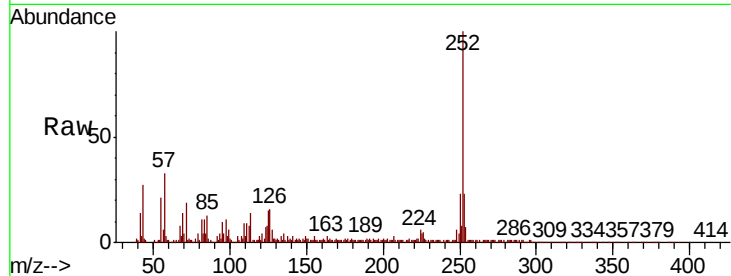




#90
Benzo(a)pyrene
Concen: 15.606 ng
RT: 15.60 min Scan# 2298
Delta R.T. -0.02 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	15.0	9.0	13.6#

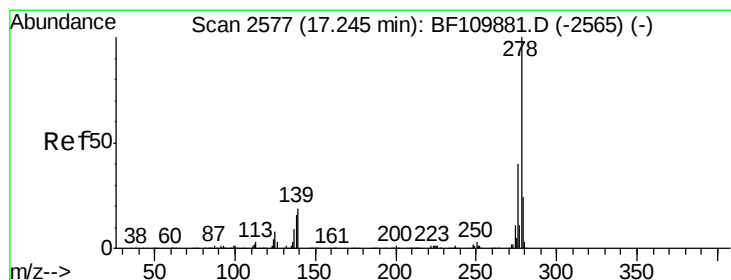
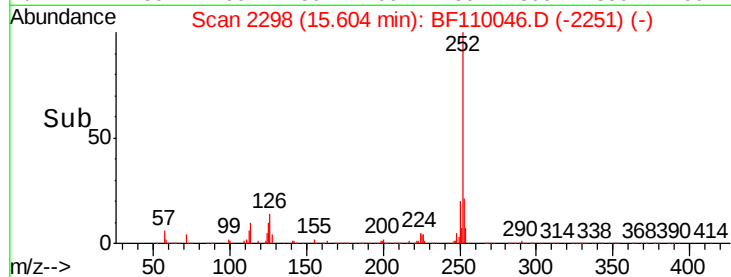
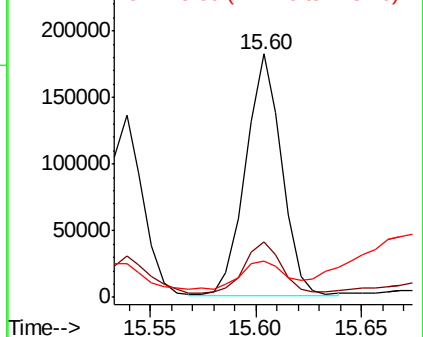


Abundance

Ion 252.00 (251.70 to 252.70): E

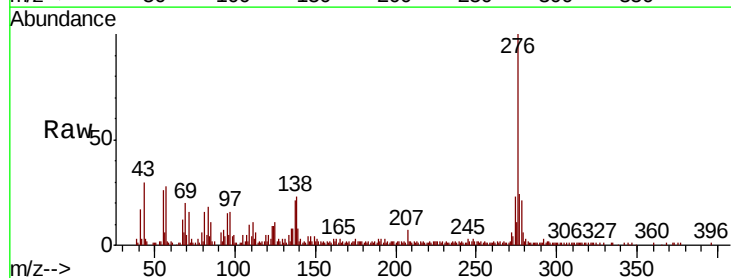
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Dibenzo(a,h)anthracene
Concen: 2.466 ng
RT: 17.23 min Scan# 2575
Delta R.T. -0.05 min
Lab File: BF110046.D
Acq: 22 Oct 2018 14:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	38.7	12.7	19.1#
279	29.6	19.0	28.4#

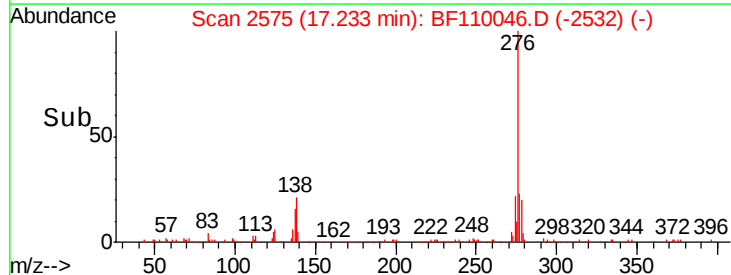
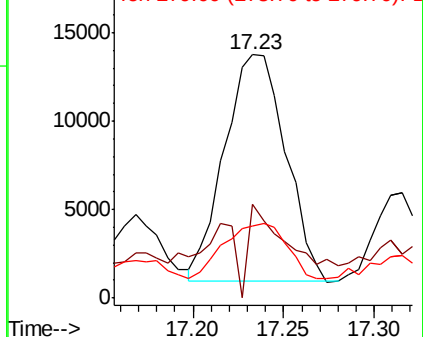


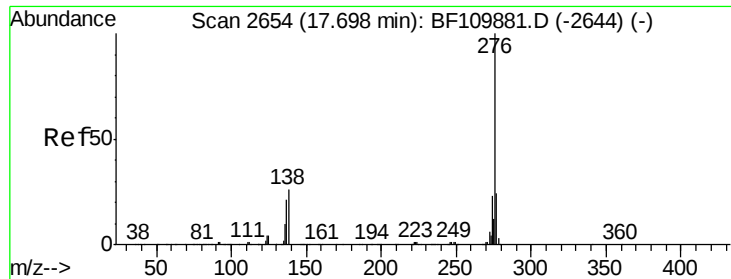
Abundance

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

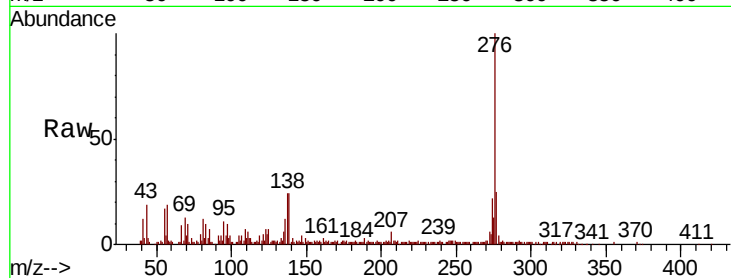




#92
 Benzo(a,h,i)perylene
 Concen: 13.680 ng
 RT: 17.70 min Scan# 2655
 Delta R.T. -0.04 min
 Lab File: BF110046.D
 Acq: 22 Oct 2018 14:03

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.8	28.2
138	23.7	16.0	24.0



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

