

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112918\
 Data File : BF111088.D
 Acq On : 29 Nov 2018 14:00
 Operator : JU/SJ
 Sample : J6051-02
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 29 14:46:44 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF112618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 29 10:35:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	62036	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	268992	20.00	ng	-0.01
39) Acenaphthene-d10	9.97	164	130334	20.00	ng	-0.01
64) Phenanthrene-d10	11.47	188	222621	20.00	ng	0.00
76) Chrysene-d12	14.13	240	127374	20.00	ng	0.00
87) Perylene-d12	15.66	264	121698	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.55	112	211019	56.41	ng	0.00
7) Phenol-d6	6.56	99	278011	57.03	ng	-0.01
23) Nitrobenzene-d5	7.50	82	176003	37.45	ng	-0.01
42) 2,4,6-Tribromophenol	10.77	330	57582	44.49	ng	-0.01
45) 2-Fluorobiphenyl	9.28	172	306354	34.05	ng	-0.01
79) Terphenyl-d14	13.05	244	198264	30.30	ng	0.00

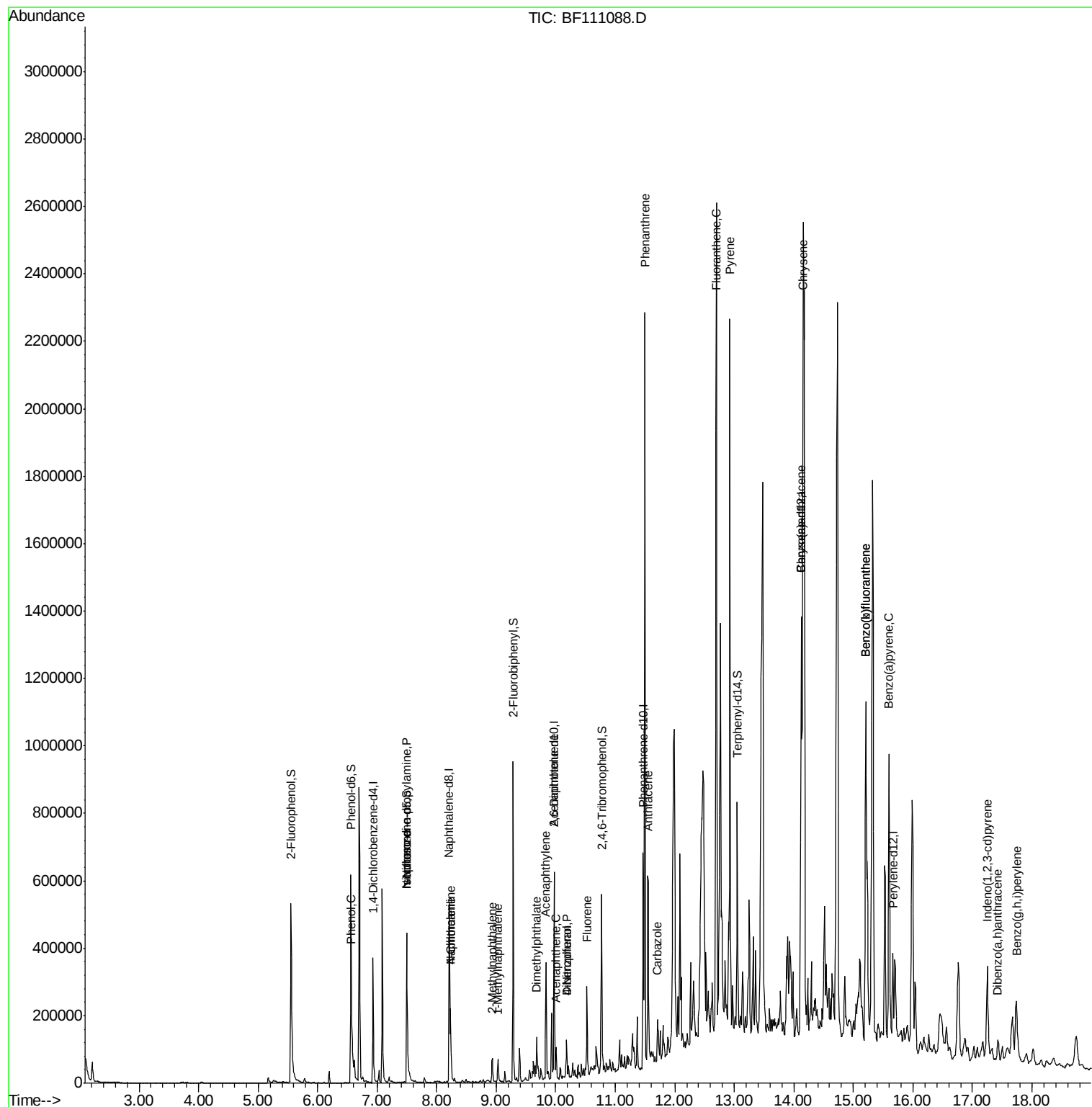
Target Compounds				Qvalue		
9) Benzaldehyde	6.70	77	5342	Below Cal		81
10) Phenol	6.57	94	16989	3.094 ng		92
19) n-Nitroso-di-n-propylamine	7.50	70	23422	7.376 ng	#	83
25) Isophorone	7.50	82	176003	22.828 ng	#	67
31) Naphthalene	8.23	128	105238	8.346 ng		99
33) 4-Chloroaniline	8.23	127	13335	2.485 ng	#	34
37) 2-Methylnaphthalene	8.93	142	21971	2.638 ng		97
38) 1-Methylnaphthalene	9.03	142	21088	2.603 ng	#	93
49) Acenaphthylene	9.83	152	158831	12.821 ng		98
50) Dimethylphthalate	9.68	163	49991	5.230 ng		98
51) 2,6-Dinitrotoluene	9.97	165	17878	8.401 ng	#	22
52) Acenaphthene	10.00	154	18462	2.325 ng		95
55) Dibenzofuran	10.19	168	43441	3.749 ng		94
56) 4-Nitrophenol	10.18	139	17787	16.455 ng	#	8
58) Fluorene	10.52	166	89698	9.950 ng		100
71) Phenanthrene	11.50	178	793881	67.331 ng		99
72) Anthracene	11.55	178	240998	20.071 ng		99
73) Carbazole	11.71	167	38774	3.327 ng		98
75) Fluoranthene	12.70	202	997515	82.315 ng		99
78) Pvrene	12.93	202	904812	97.260 ng		99
81) Benzo(a)anthracene	14.12	228	458333	60.949 ng		97
83) Chrysene	14.16	228	364997	49.305 ng		98
86) Indeno(1,2,3-cd)pyrene	17.25	276	182744	34.391 ng		95
88) Benzo(b)fluoranthene	15.21	252	690706	96.612 ng		98
89) Benzo(k)fluoranthene	15.21	252	690706	93.863 ng	#	97
90) Benzo(a)pyrene	15.60	252	391682	58.857 ng		99
91) Dibenzo(a,h)anthracene	17.43	278	40302	7.340 ng		95
92) Benzo(g,h,i)perylene	17.73	276	159084	30.049 ng		97

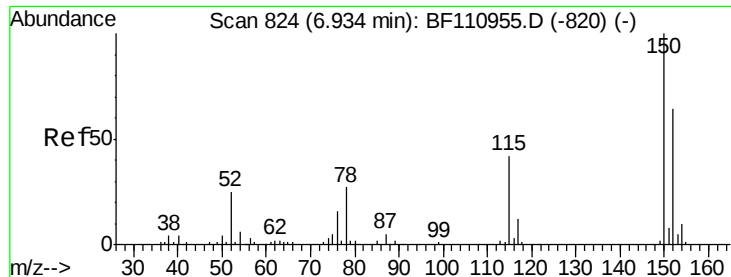
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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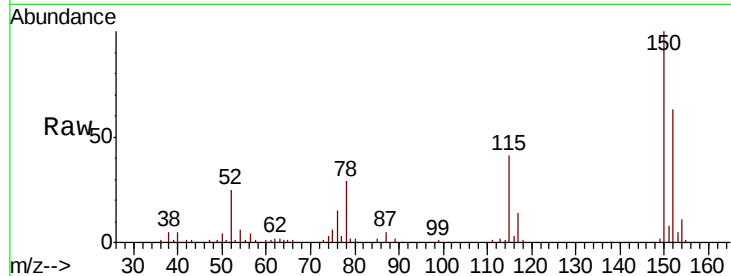


#1

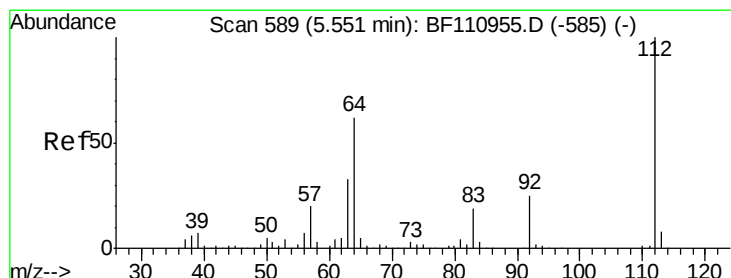
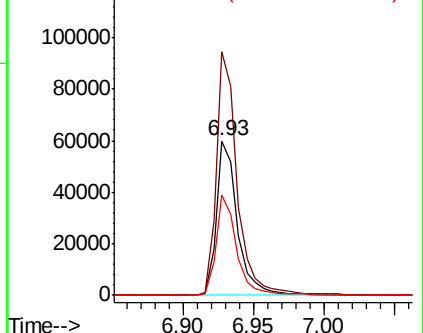
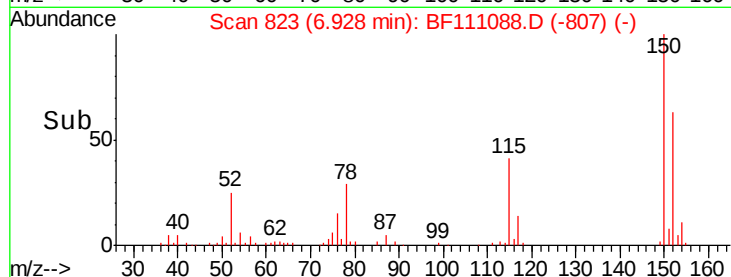
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 823
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 62036
Ion Ratio Lower Upper
152 100
150 157.8 122.7 184.1
115 65.0 49.1 73.7



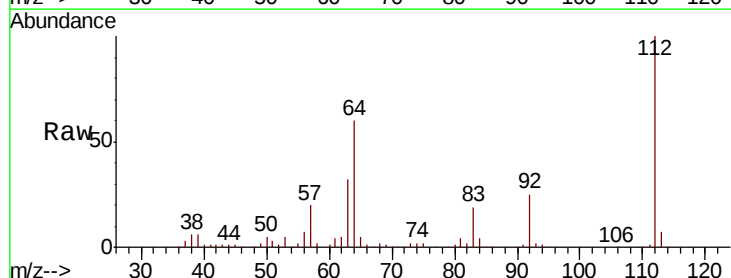
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



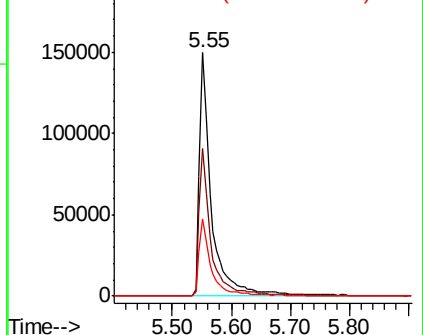
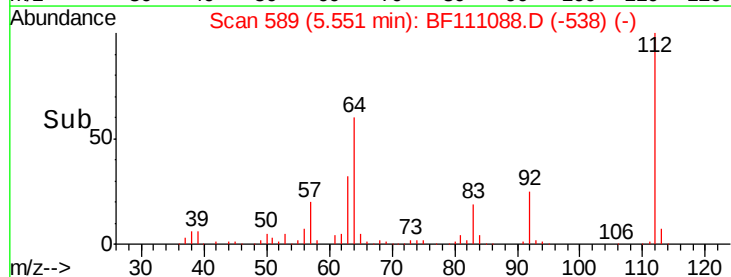
#5

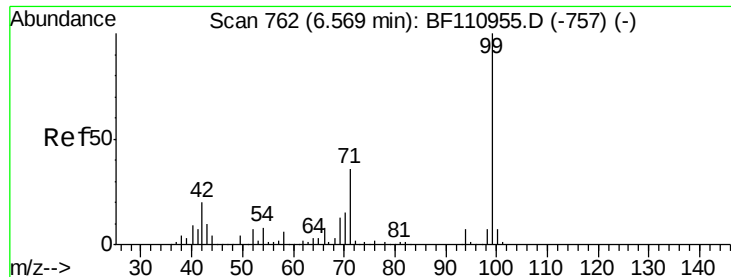
2-Fluorophenol
Concen: 56.409 ng
RT: 5.55 min Scan# 589
Delta R.T. 0.00 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion:112 Resp: 211019
Ion Ratio Lower Upper
112 100
64 60.4 44.1 66.1
63 31.8 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: 57.028 ng

RT: 6.56 min Scan# 760

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampled :

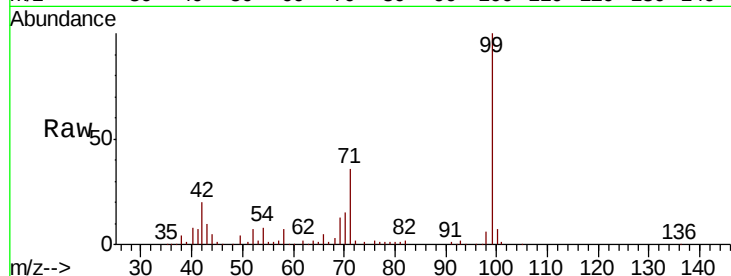
Tot Ion: 99 Resp: 278011

Ion Ratio Lower Upper

99 100

42 19.7 15.8 23.6

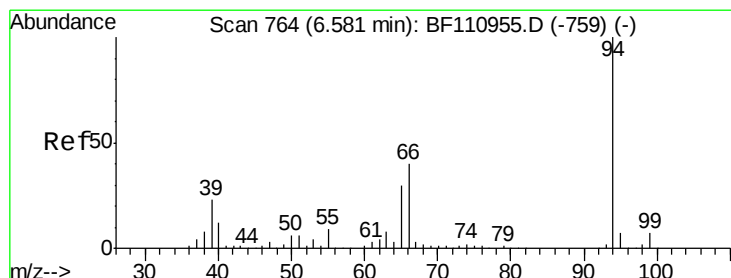
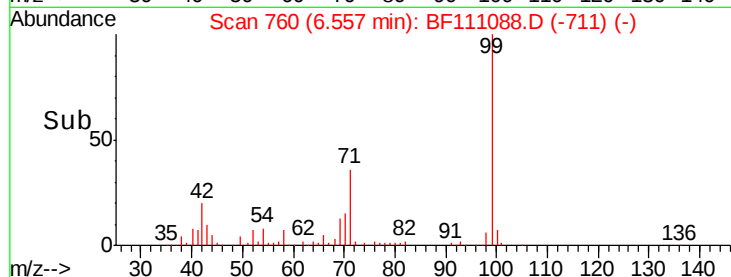
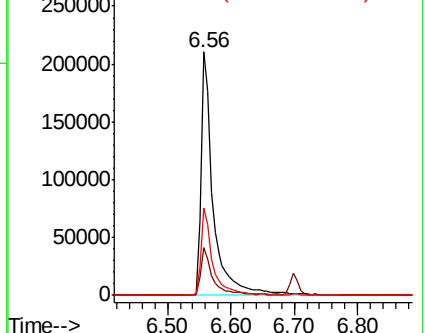
71 35.7 28.0 42.0



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: 3.094 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

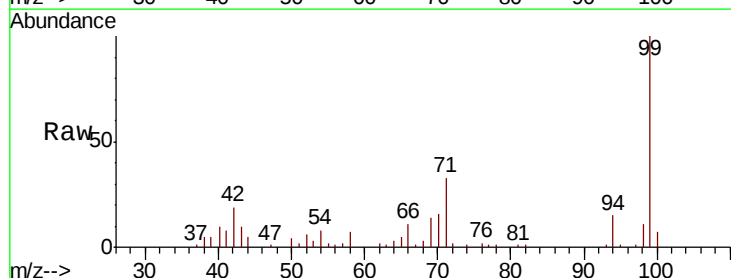
Tgt Ion: 94 Resp: 16989

Ion Ratio Lower Upper

94 100

65 36.3 25.3 65.3

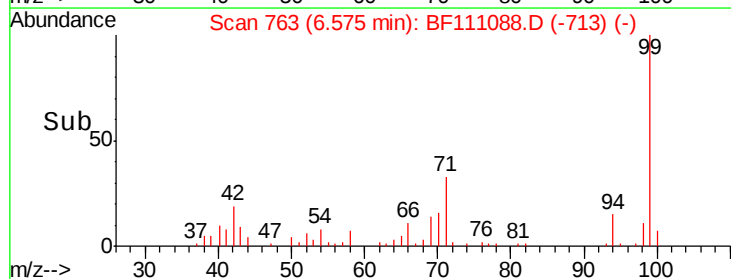
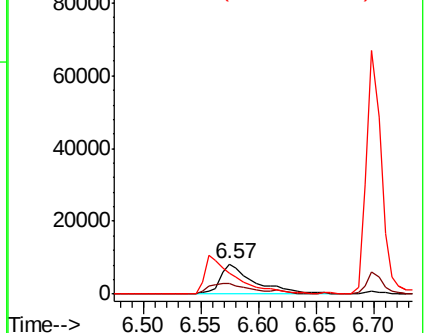
66 70.9 54.5 94.5

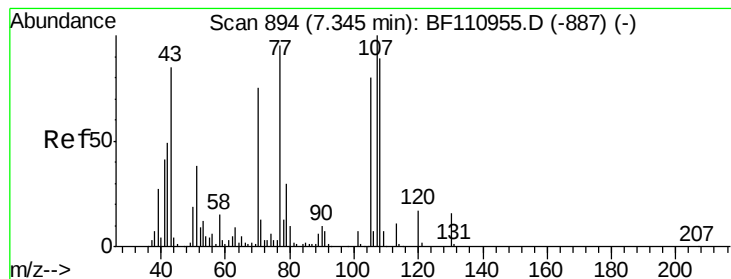


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 7.376 ng

RT: 7.50 min Scan# 920

Delta R.T. 0.15 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 23422

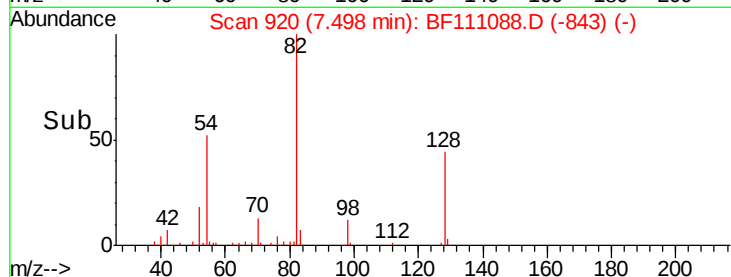
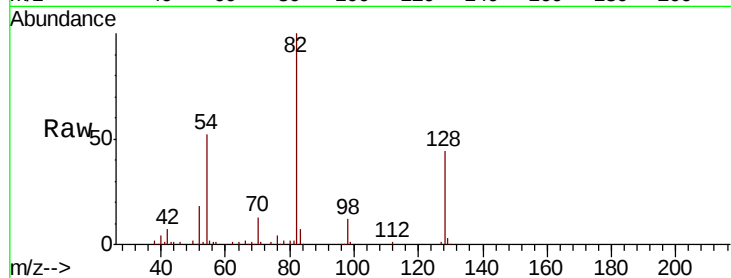
Ion Ratio Lower Upper

70 100

42 53.4 47.4 71.2

101 0.0 7.3 10.9#

130 1.9 16.2 24.2#



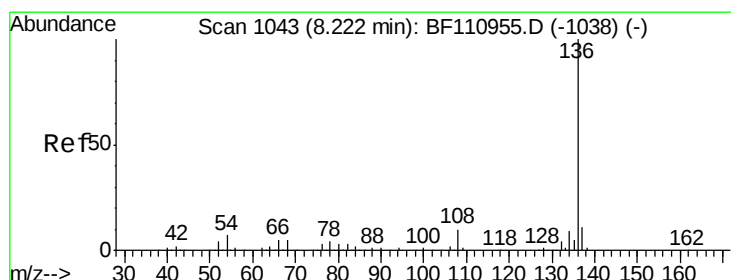
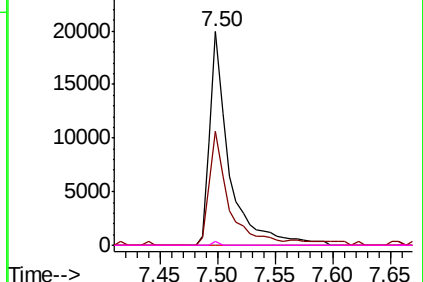
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

Time-->



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.21 min Scan# 1041

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Tgt Ion: 136 Resp: 268992

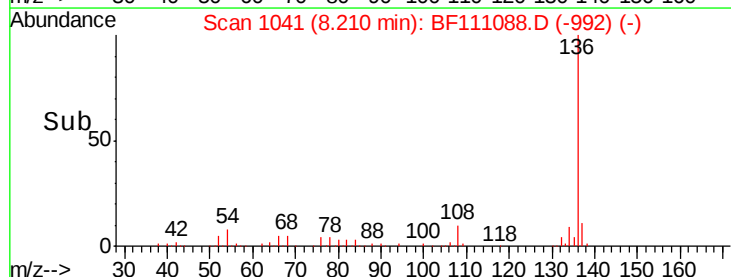
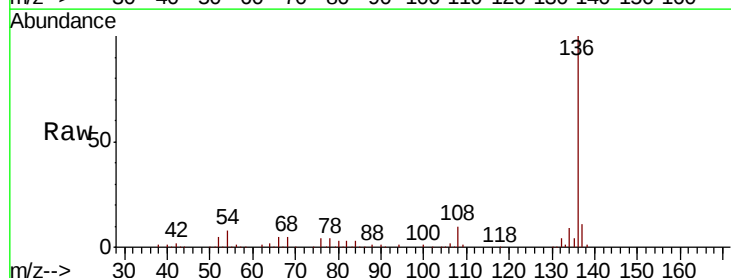
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 8.1 5.4 8.2

68 4.8 4.2 6.2



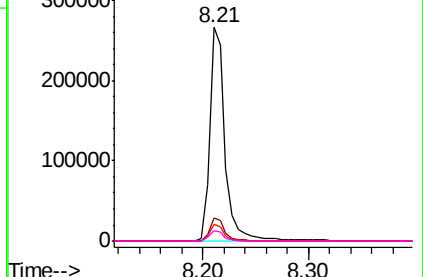
Abundance Ion 136.00 (135.70 to 136.70): BF1

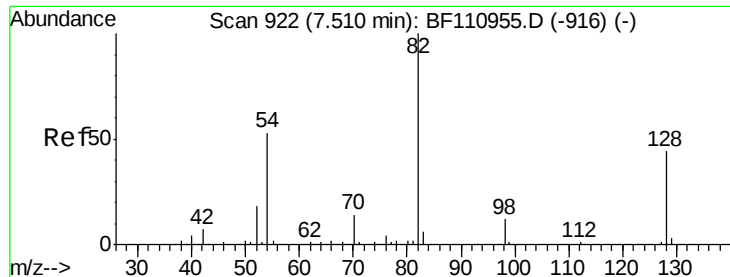
Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

Time-->

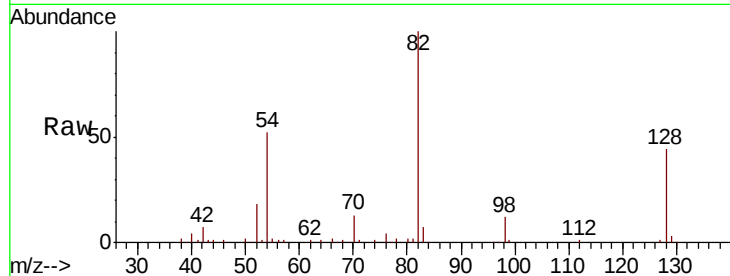




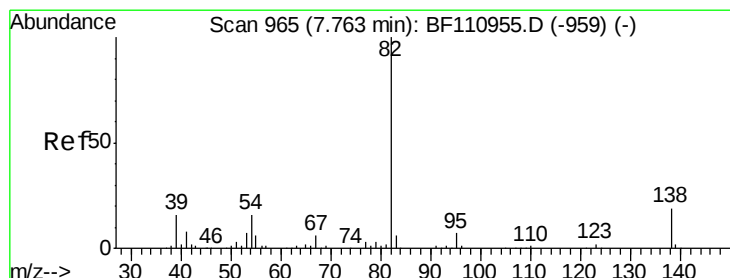
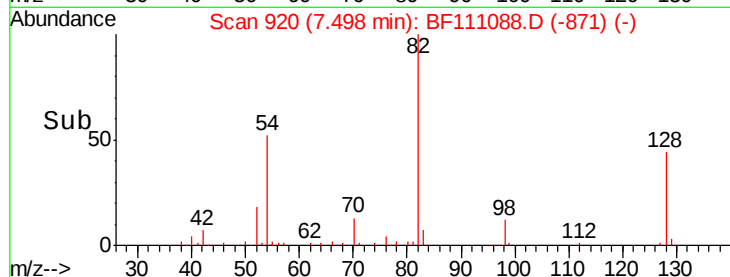
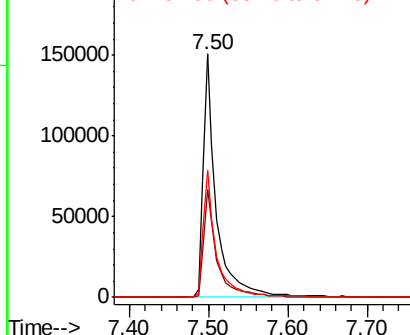
#23
Nitrobenzene-d5
Concen: 37.446 ng
RT: 7.50 min Scan# 920
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 176003
Ion Ratio Lower Upper
82 100
128 44.3 34.2 51.2
54 52.5 38.6 58.0

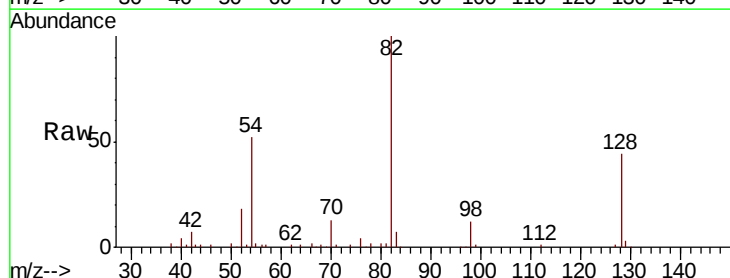


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

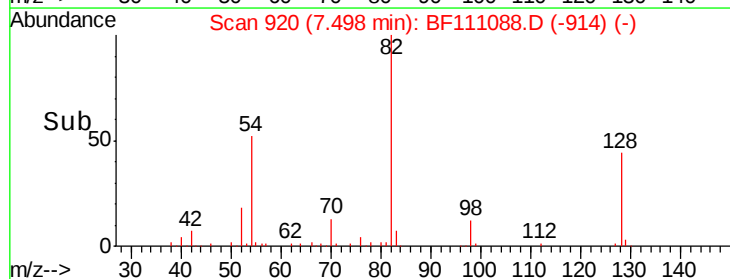
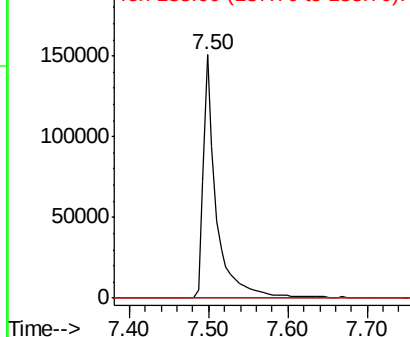


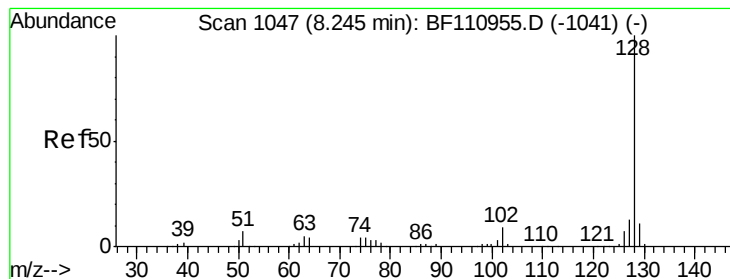
#25
Isophorone
Concen: 22.828 ng
RT: 7.50 min Scan# 920
Delta R.T. -0.26 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion: 82 Resp: 176003
Ion Ratio Lower Upper
82 100
95 0.0 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: 8.346 ng

RT: 8.23 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

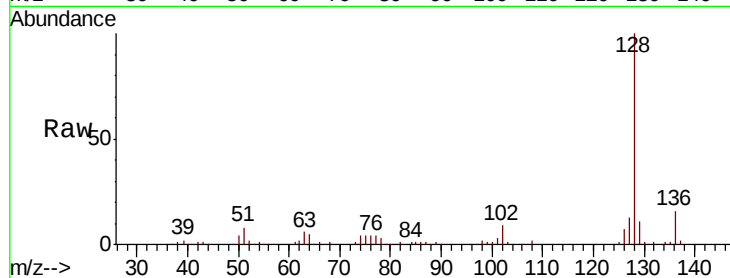
Tot Ion:128 Resp: 105238

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

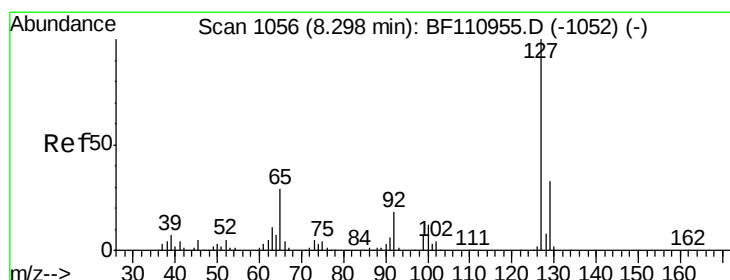
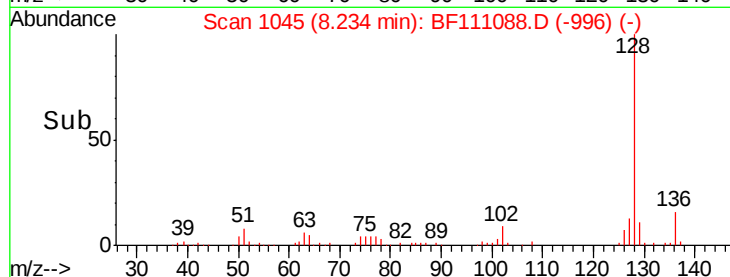
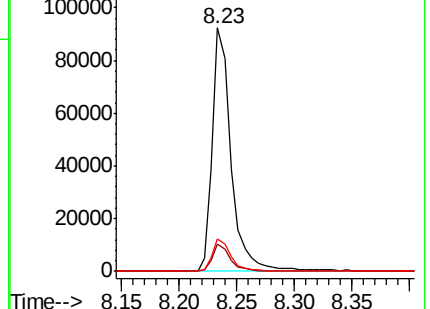
127 13.3 10.8 16.2



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



#33

4-Chloroaniline

Concen: 2.485 ng

RT: 8.23 min Scan# 1045

Delta R.T. -0.06 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Tgt Ion:127 Resp: 13335

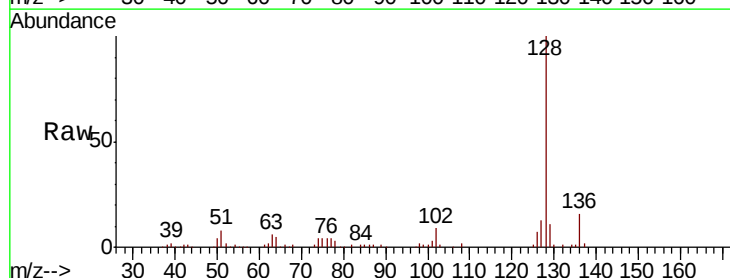
Ion Ratio Lower Upper

127 100

129 85.3 26.0 39.0#

65 2.9 25.1 37.7#

92 0.0 15.0 22.6#

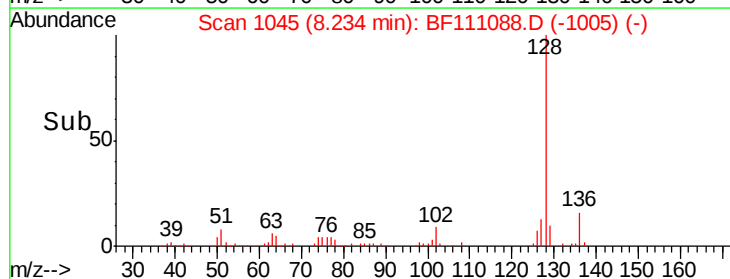
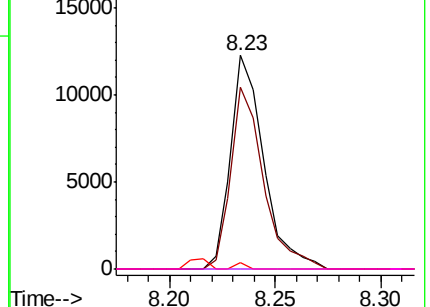


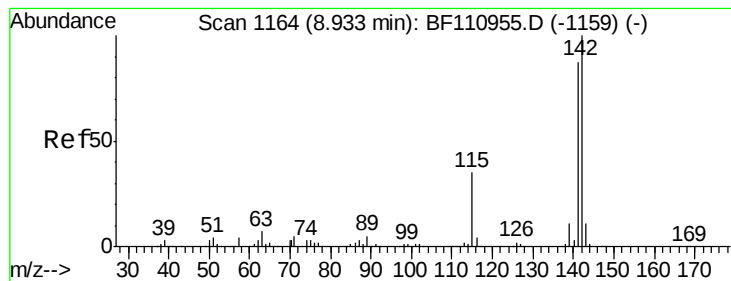
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

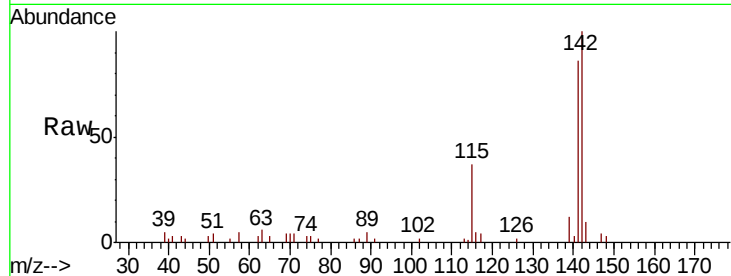




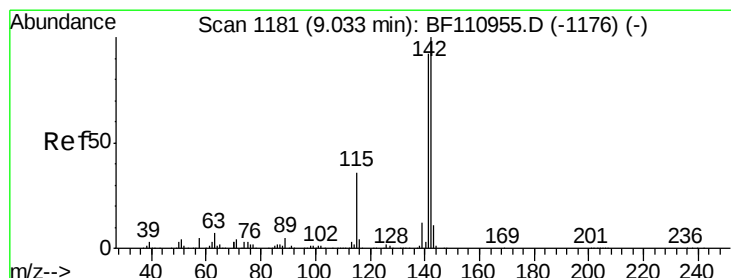
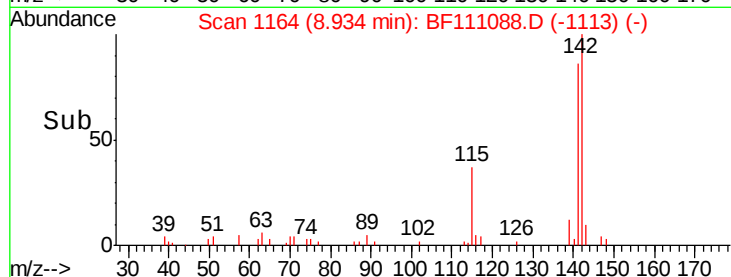
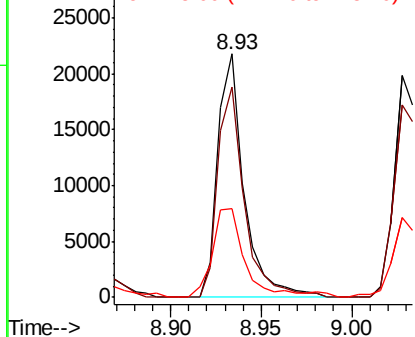
#37
2-Methylnaphthalene
Concen: 2.638 ng
RT: 8.93 min Scan# 1164
Delta R.T. 0.00 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Instrument :
BNA_F
ClientSampled :

Tot Ion:142 Resp: 21971
Ion Ratio Lower Upper
142 100
141 86.2 71.4 107.2
115 36.6 28.7 43.1

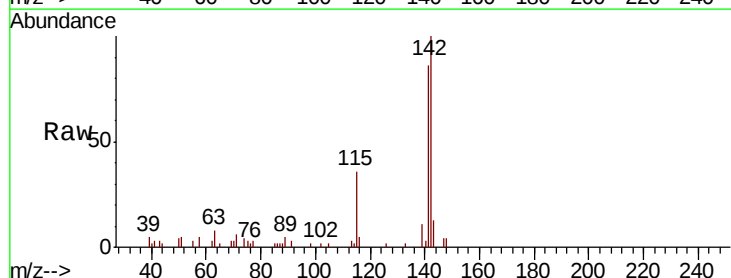


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

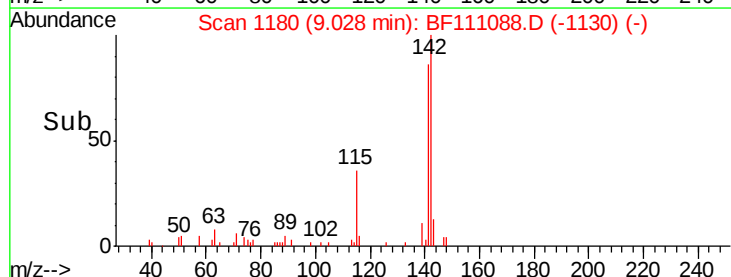
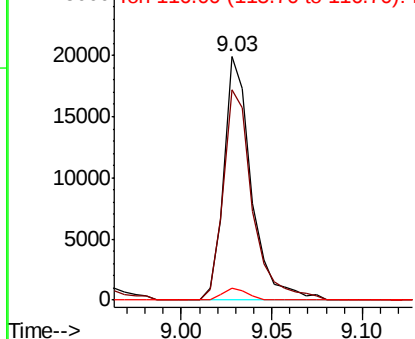


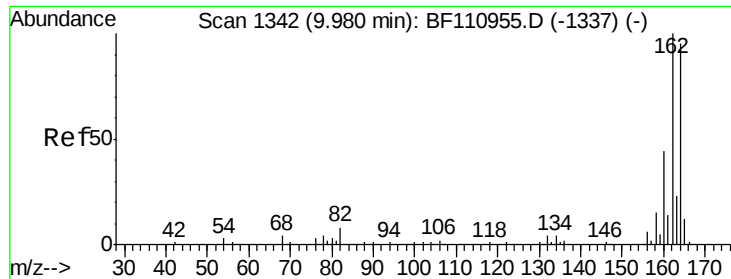
#38
1-Methylnaphthalene
Concen: 2.603 ng
RT: 9.03 min Scan# 1180
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion:142 Resp: 21088
Ion Ratio Lower Upper
142 100
141 86.4 74.2 111.4
116 4.7 2.6 4.0#



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: 9.97 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

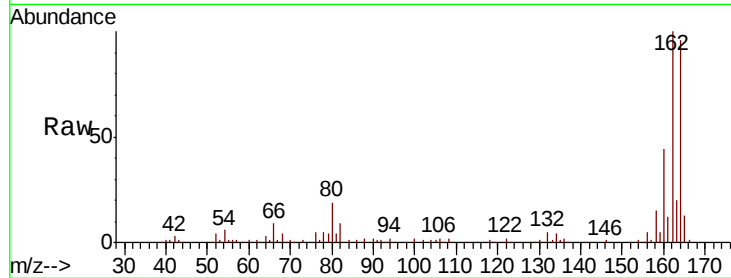
Tot Ion:164 Resp: 130334

Ion Ratio Lower Upper

164 100

162 103.8 83.0 124.6

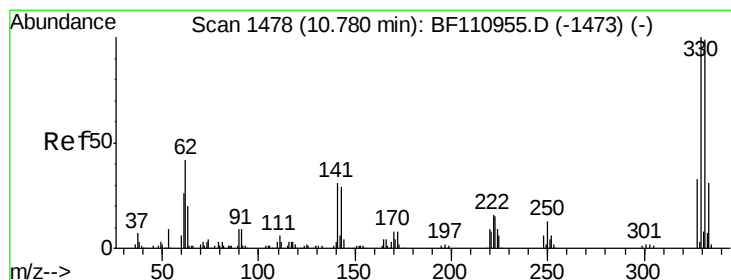
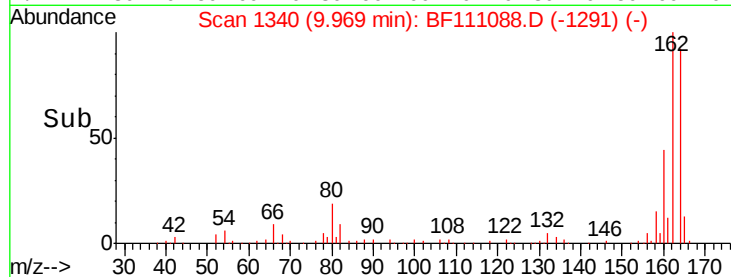
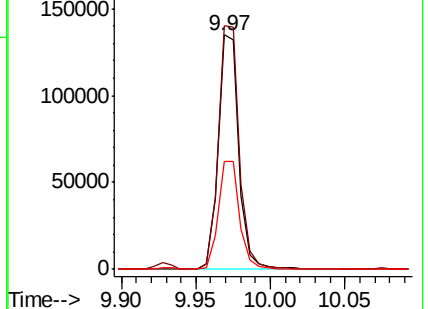
160 46.2 37.0 55.6



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: 44.486 ng

RT: 10.77 min Scan# 1476

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

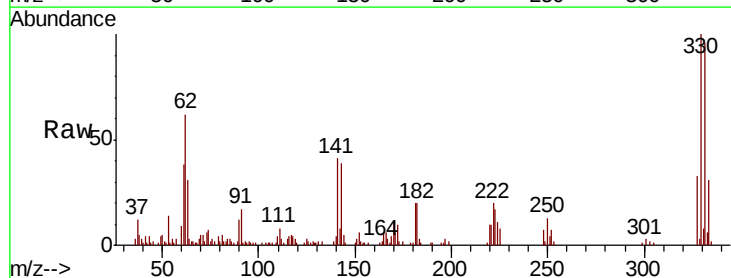
Tgt Ion:330 Resp: 57582

Ion Ratio Lower Upper

330 100

332 96.9 77.1 115.7

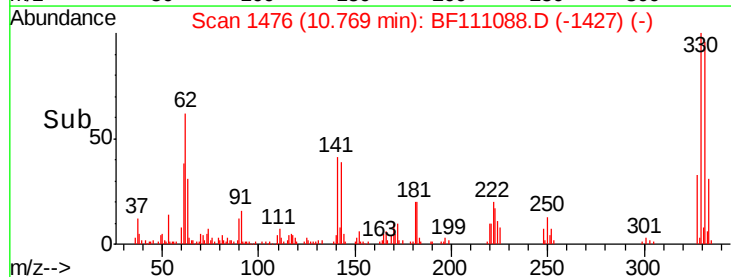
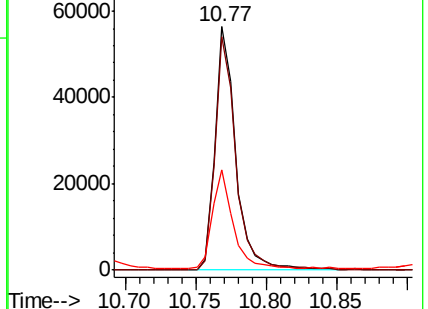
141 39.8 27.0 40.4

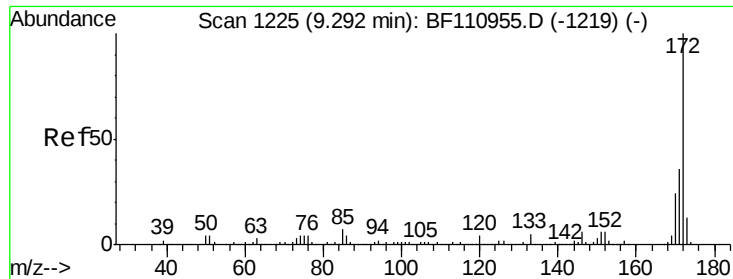


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

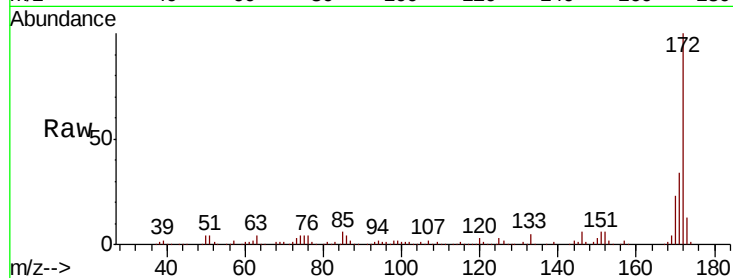




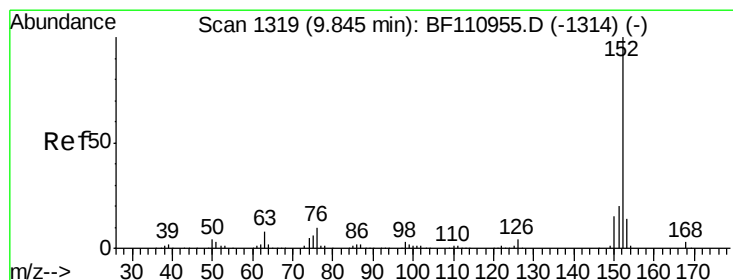
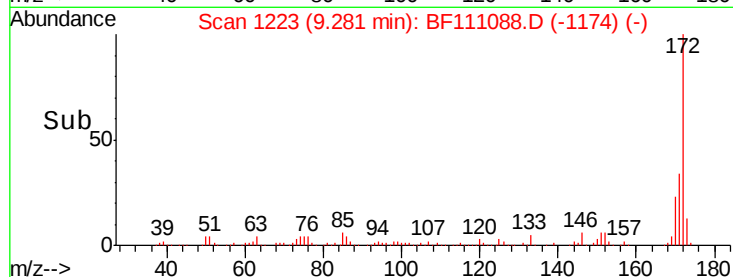
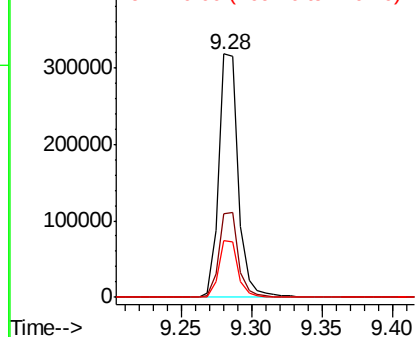
#45
 2-Fluorobiphenyl
 Concen: 34.054 ng
 RT: 9.28 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF111088.D
 Acq: 29 Nov 2018 14:00

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 306354
 Ion Ratio Lower Upper
 172 100
 171 34.4 28.6 43.0
 170 23.2 19.7 29.5

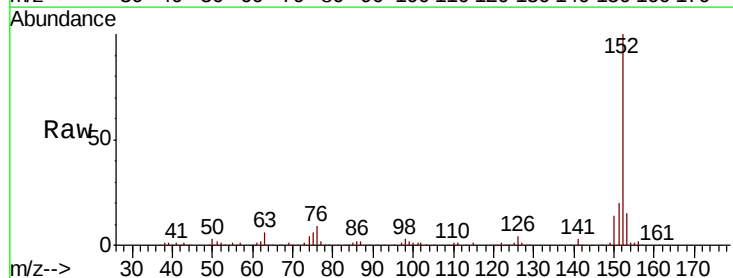


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

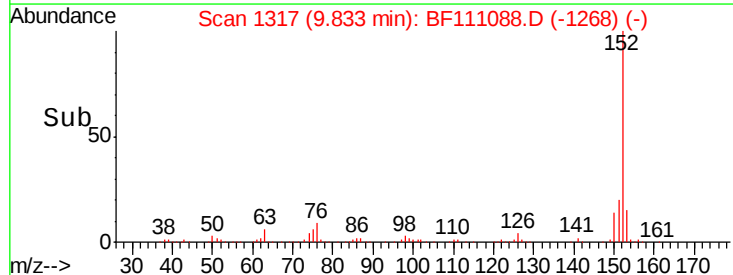
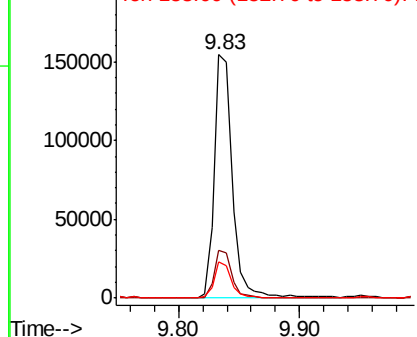


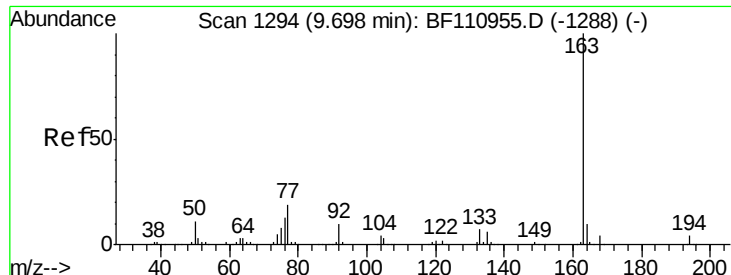
#49
 Acenaphthylene
 Concen: 12.821 ng
 RT: 9.83 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: BF111088.D
 Acq: 29 Nov 2018 14:00

Tgt Ion:152 Resp: 158831
 Ion Ratio Lower Upper
 152 100
 151 19.7 15.8 23.8
 153 14.9 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

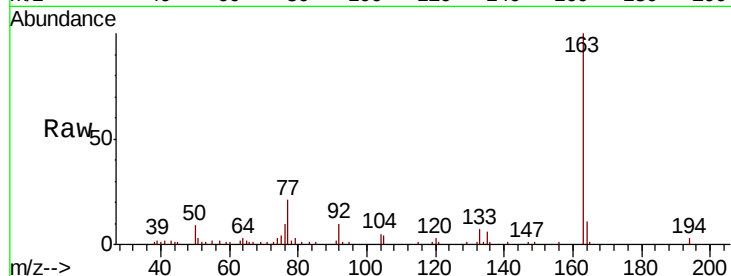




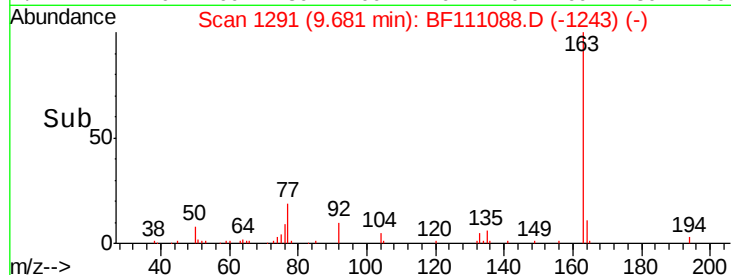
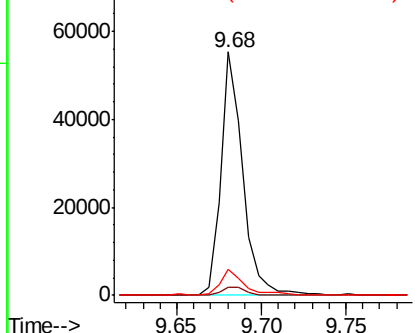
#50
Dimethylphthalate
Concen: 5.230 ng
RT: 9.68 min Scan# 1291
Delta R.T. -0.02 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.2	4.8
164	10.6	8.1	12.1

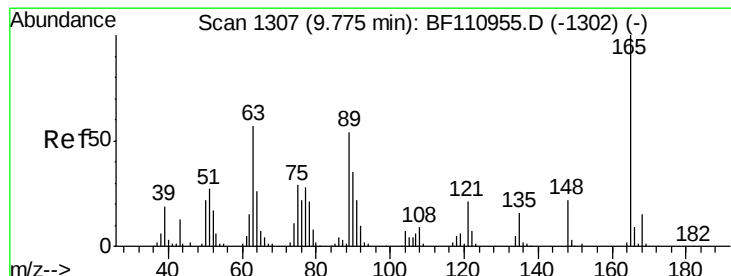


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

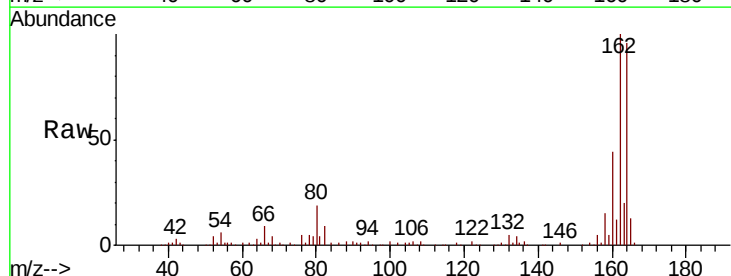
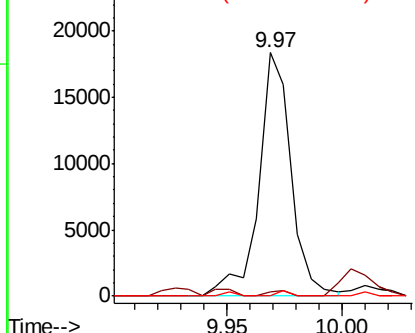


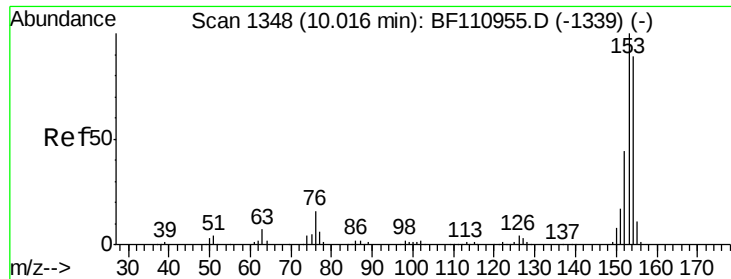
#51
2,6-Dinitrotoluene
Concen: 8.401 ng
RT: 9.97 min Scan# 1340
Delta R.T. 0.19 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.9	48.9	73.3#
89	0.0	46.6	69.8#



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





#52

Acenaphthene

Concen: 2.325 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

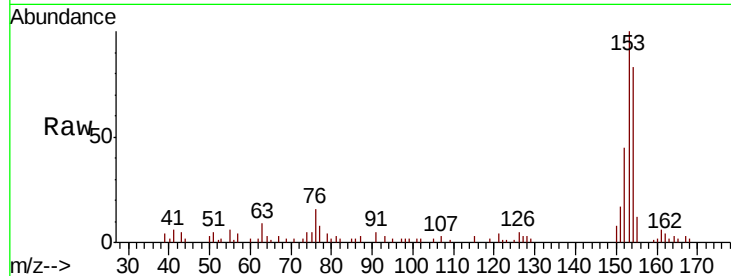
Tot Ion:154 Resp: 18462

Ion Ratio Lower Upper

154 100

153 120.9 90.1 135.1

152 54.5 43.4 65.2

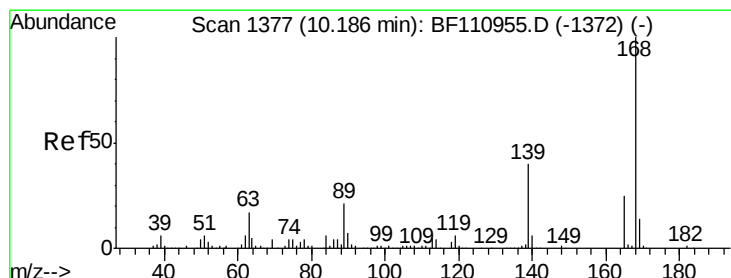
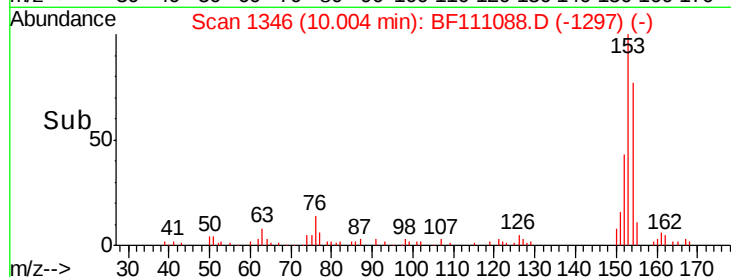
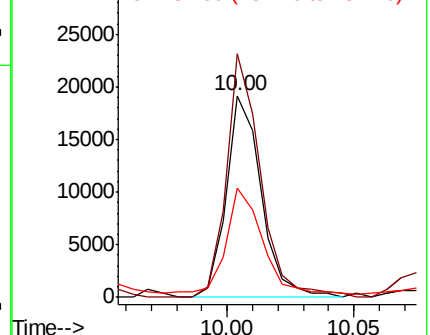


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.749 ng

RT: 10.19 min Scan# 1377

Delta R.T. 0.00 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

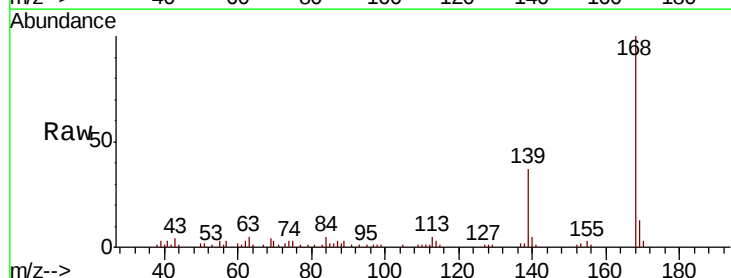
Tgt Ion:168 Resp: 43441

Ion Ratio Lower Upper

168 100

139 37.0 33.0 49.6

169 13.2 11.3 16.9

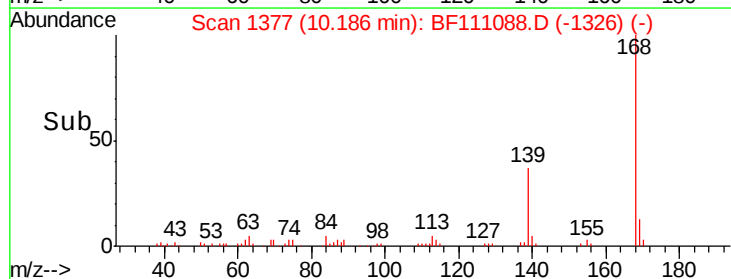
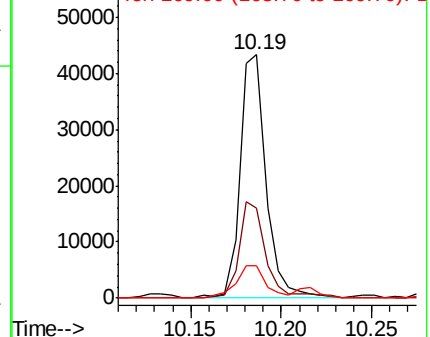


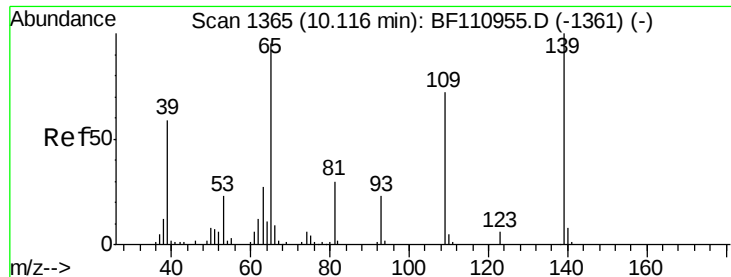
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

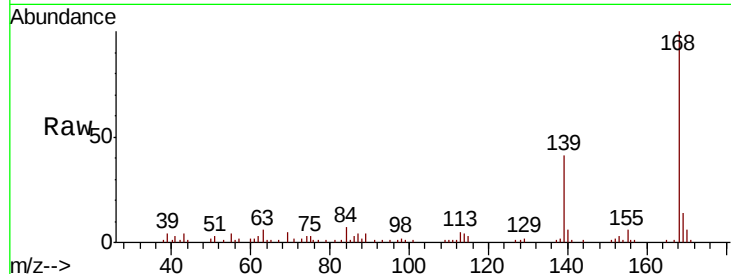




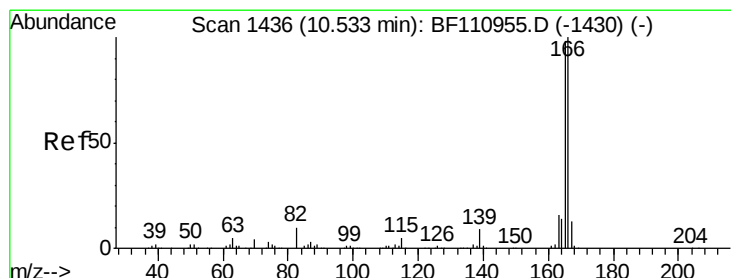
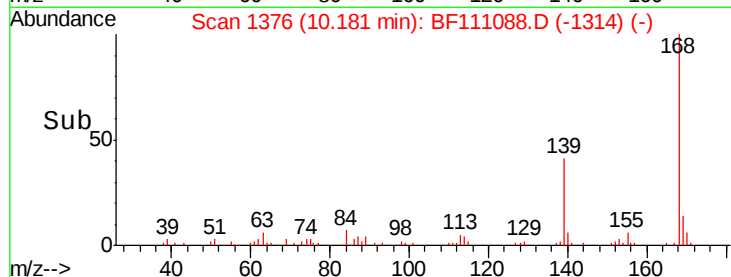
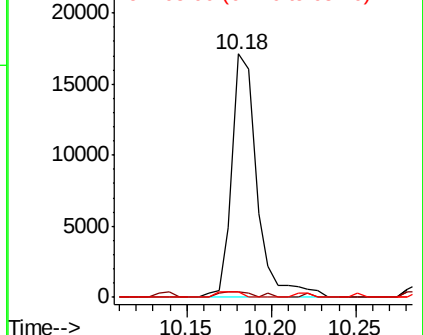
#56
4-Nitrophenol
Concen: 16.455 ng
RT: 10.18 min Scan# 1376
Delta R.T. 0.06 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 17787
Ion Ratio Lower Upper
139 100
109 2.2 55.8 95.8#
65 2.5 77.9 117.9#

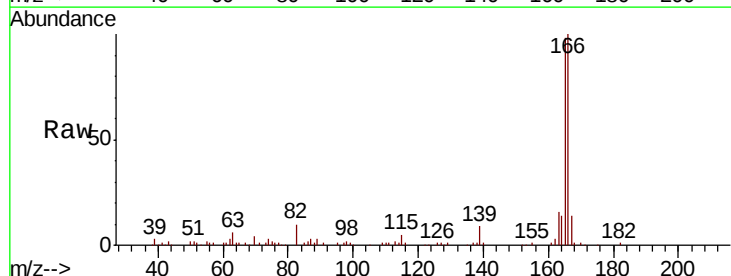


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

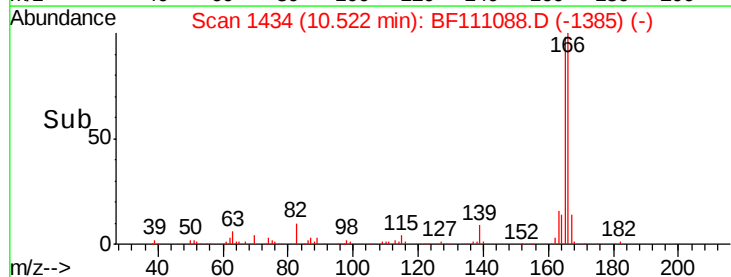
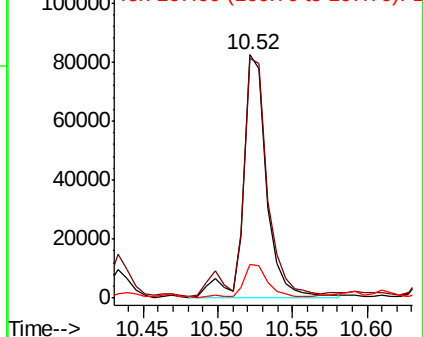


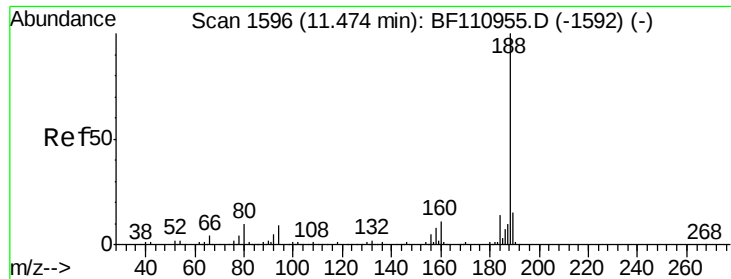
#58
Fluorene
Concen: 9.950 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion:166 Resp: 89698
Ion Ratio Lower Upper
166 100
165 98.3 78.6 117.8
167 14.0 10.8 16.2



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

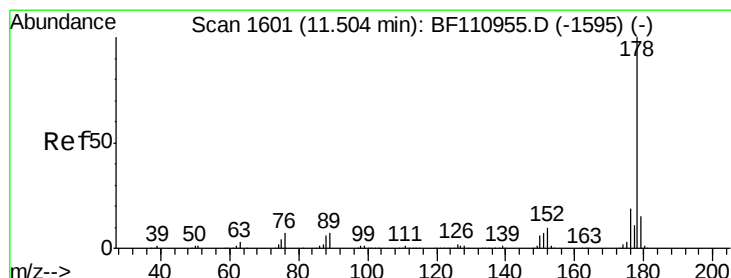
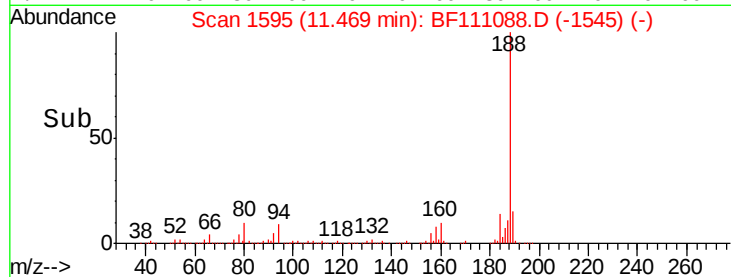
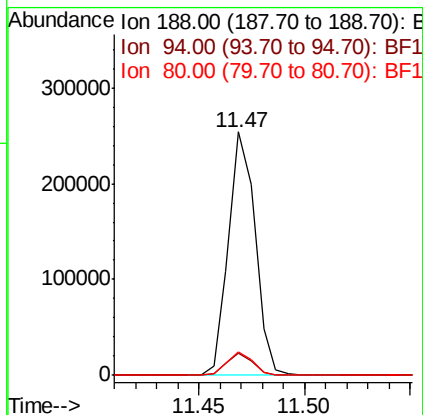
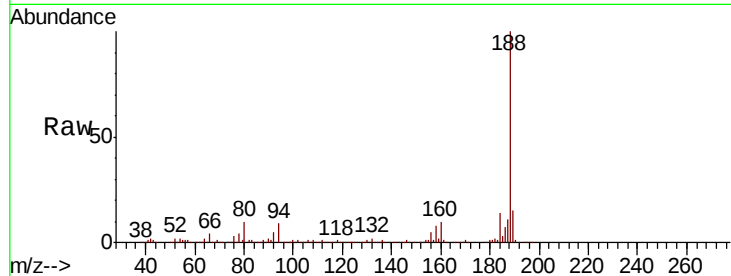




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.47 min Scan# 1595
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

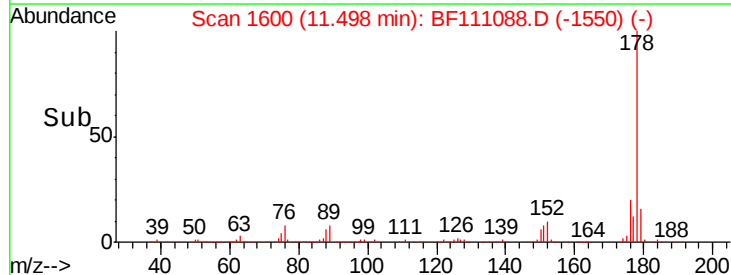
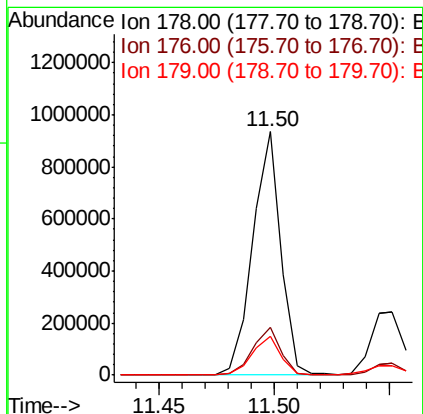
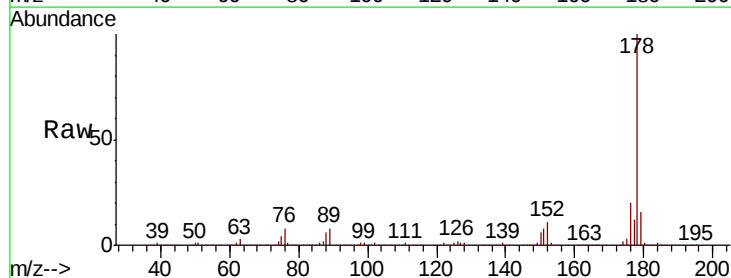
Instrument :
BNA_F
ClientSampleId :

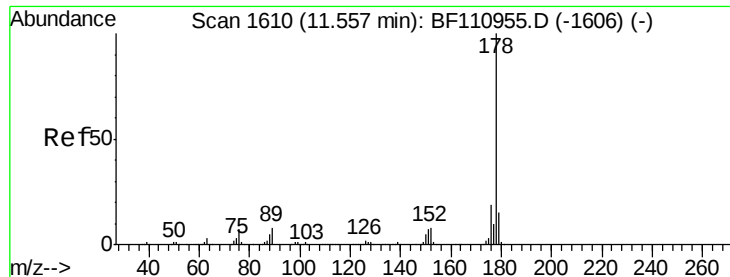
Tot Ion:188 Resp: 222621
Ion Ratio Lower Upper
188 100
94 9.4 7.2 10.8
80 9.6 7.9 11.9



#71
Phenanthrene
Concen: 67.331 ng
RT: 11.50 min Scan# 1600
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion:178 Resp: 793881
Ion Ratio Lower Upper
178 100
176 19.7 15.5 23.3
179 15.8 12.5 18.7





#72

Anthracene

Concen: 20.071 ng

RT: 11.55 min Scan# 1609

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

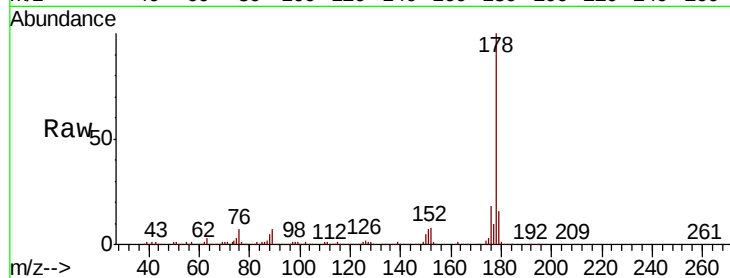
Tot Ion:178 Resp: 240998

Ion Ratio Lower Upper

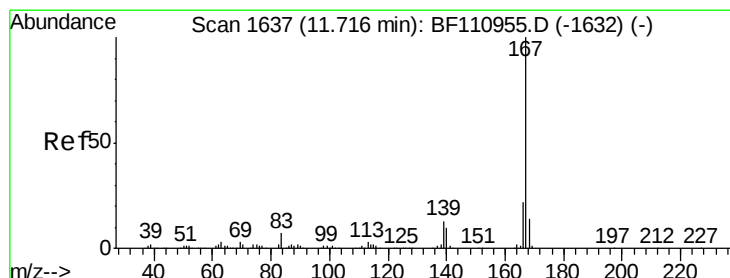
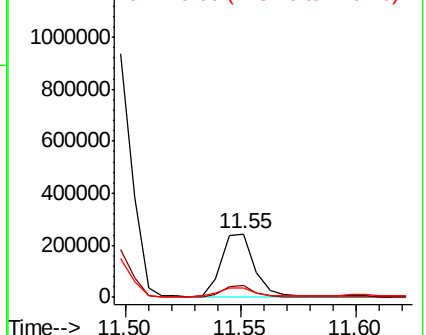
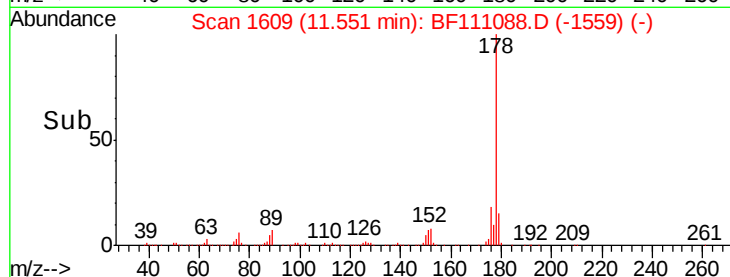
178 100

176 18.4 15.4 23.2

179 15.6 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



#73

Carbazole

Concen: 3.327 ng

RT: 11.71 min Scan# 1636

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

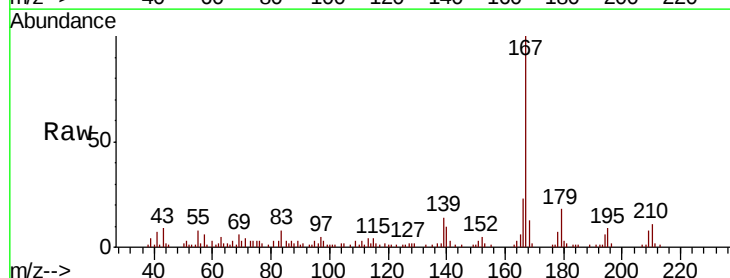
Tgt Ion:167 Resp: 38774

Ion Ratio Lower Upper

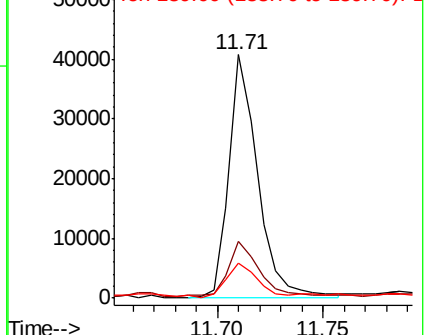
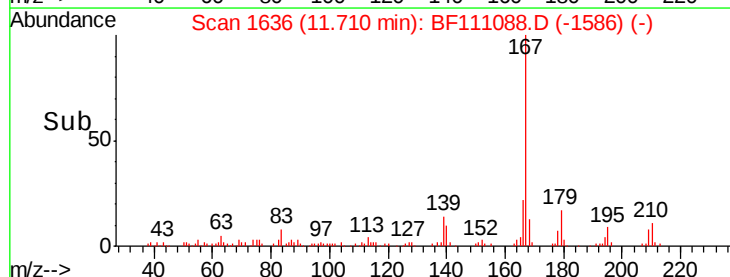
167 100

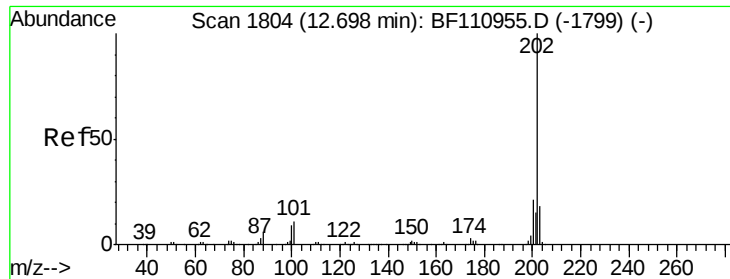
166 23.1 17.4 26.0

139 14.2 10.9 16.3



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





#75

Fluoranthene

Concen: 82.315 ng

RT: 12.70 min Scan# 1804

Delta R.T. 0.00 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampled :

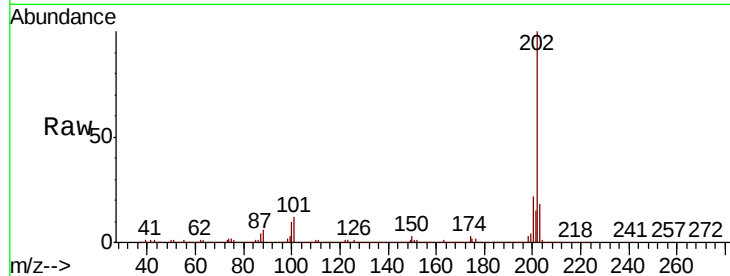
Tot Ion:202 Resp: 997515

Ion Ratio Lower Upper

202 100

101 12.2 0.0 31.4

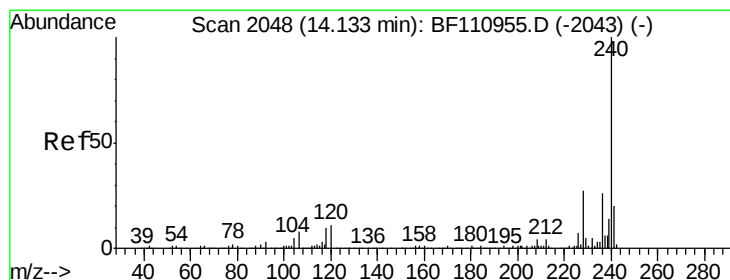
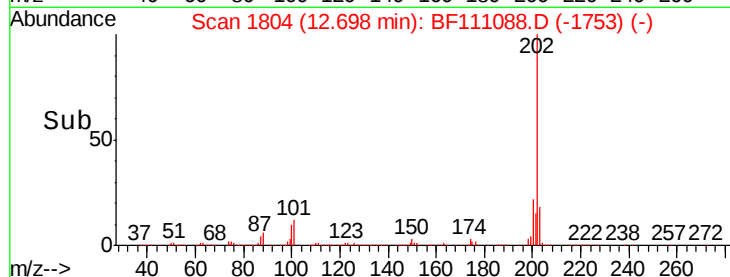
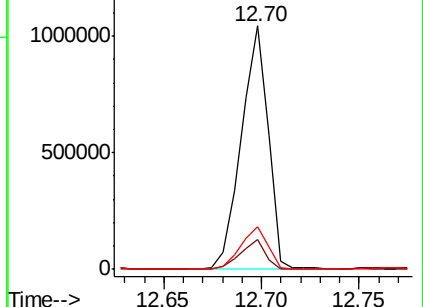
203 17.8 0.0 37.7



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: 14.13 min Scan# 2047

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

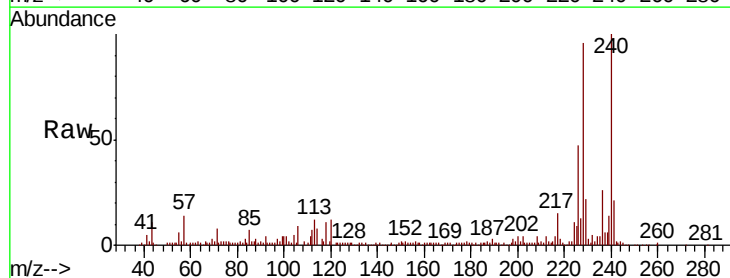
Tgt Ion:240 Resp: 127374

Ion Ratio Lower Upper

240 100

120 11.8 8.3 12.5

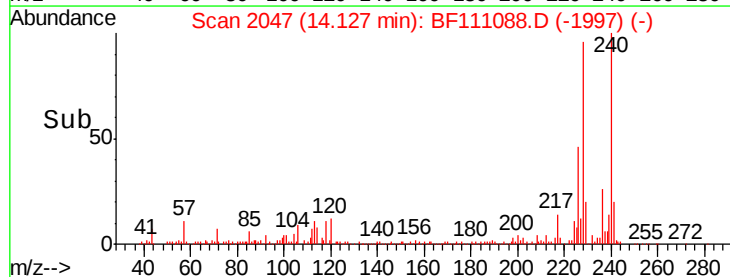
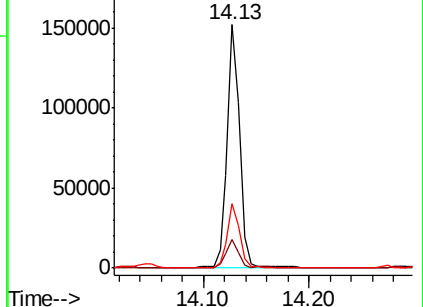
236 26.4 21.2 31.8

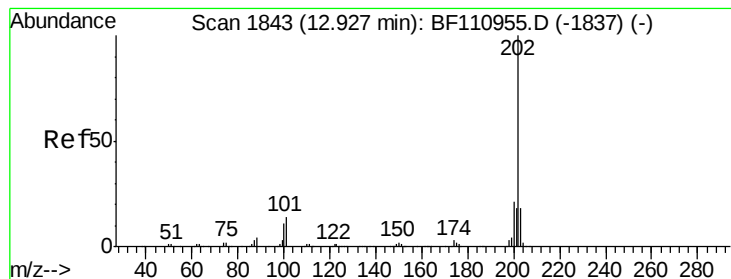


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 97.260 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

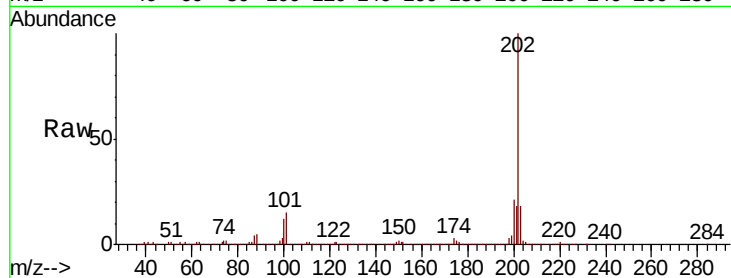
Tot Ion:202 Resp: 904812

Ion Ratio Lower Upper

202 100

200 21.4 17.8 26.6

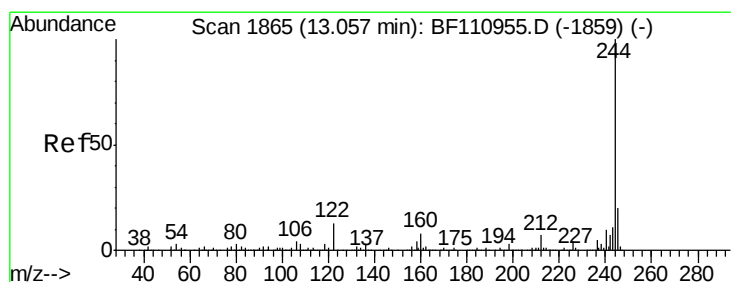
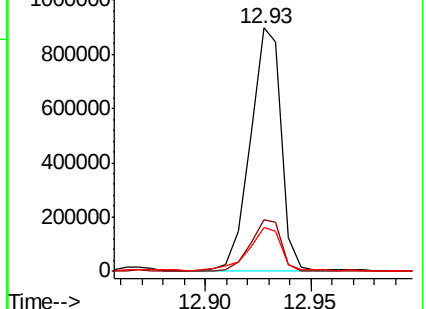
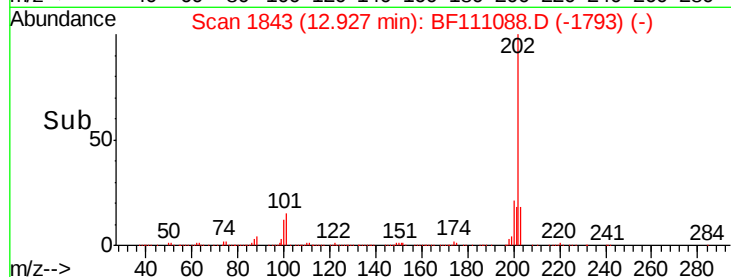
203 18.0 14.2 21.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 30.300 ng

RT: 13.05 min Scan# 1864

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

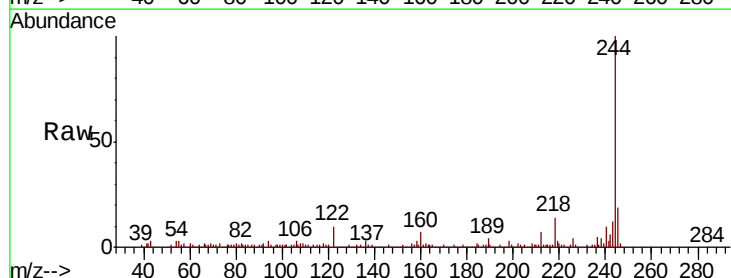
Tgt Ion:244 Resp: 198264

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.8

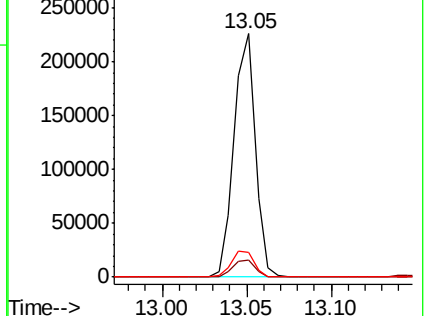
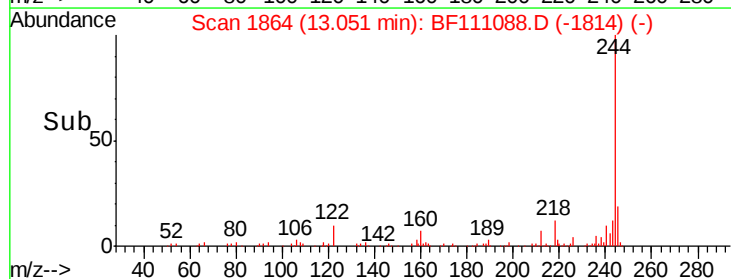
122 10.3 8.7 13.1

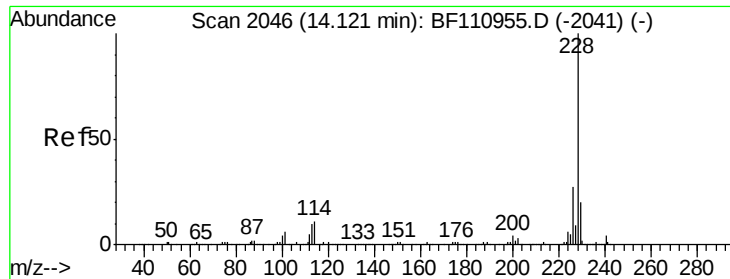


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

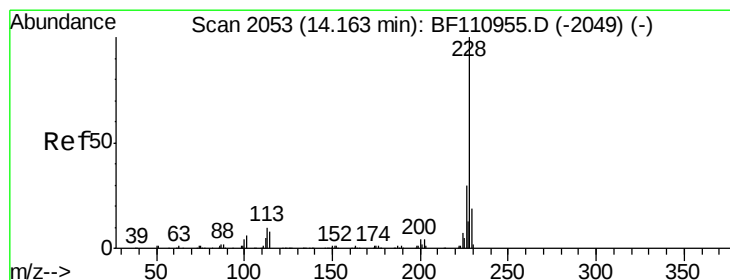
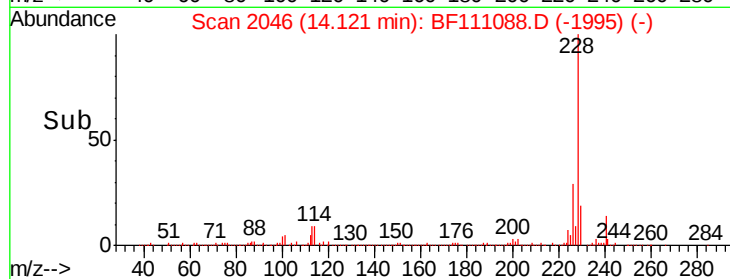
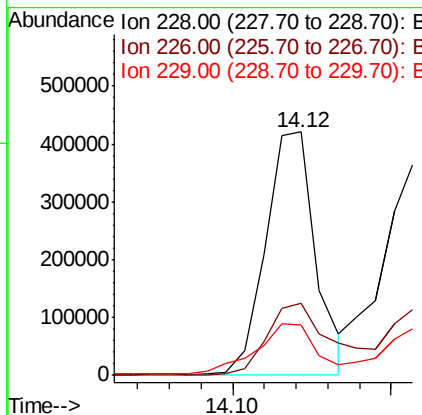
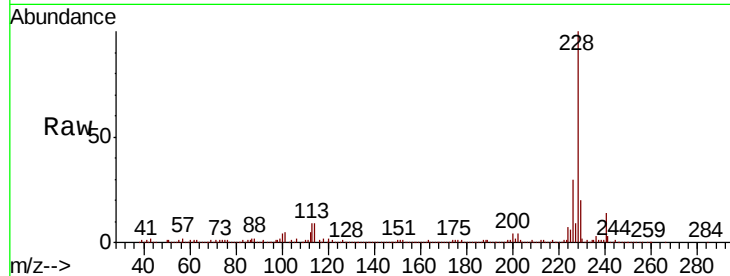




#81
Benzo(a)anthracene
Concen: 60.949 ng
RT: 14.12 min Scan# 2046
Delta R.T. 0.00 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

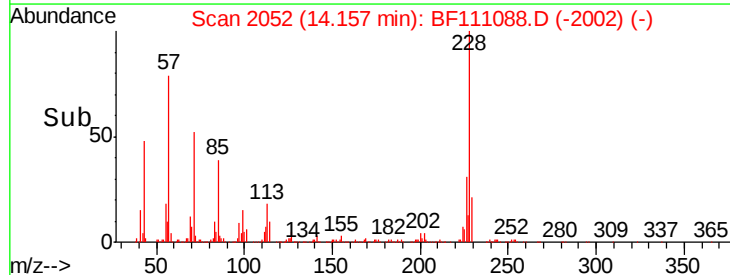
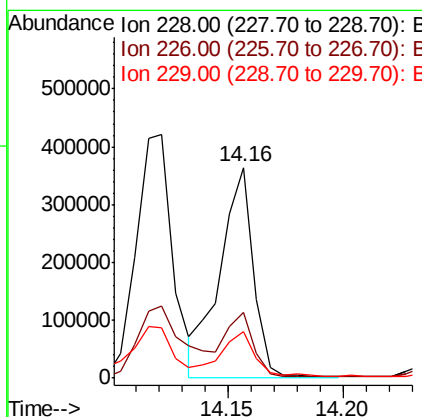
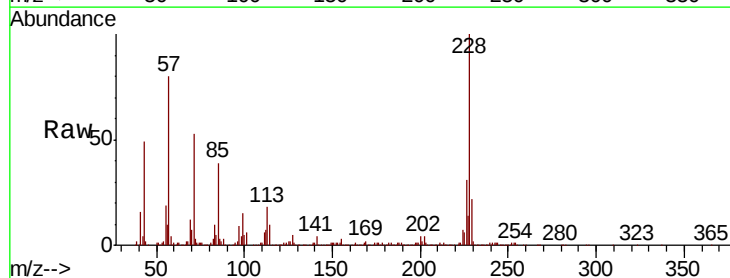
Instrument :
BNA_F
ClientSampleId :

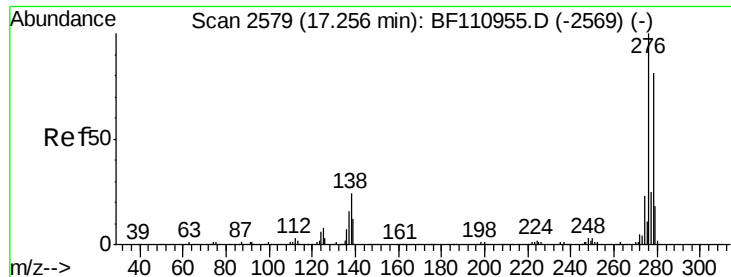
Tot Ion:228 Resp: 458333
Ion Ratio Lower Upper
228 100
226 29.7 22.1 33.1
229 20.5 15.6 23.4



#83
Chrysene
Concen: 49.305 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.01 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion:228 Resp: 364997
Ion Ratio Lower Upper
228 100
226 31.3 24.7 37.1
229 22.2 15.9 23.9





#86

Indeno(1,2,3-cd)pyrene

Concen: 34.391 ng

RT: 17.25 min Scan# 2578

Delta R.T. 0.00 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

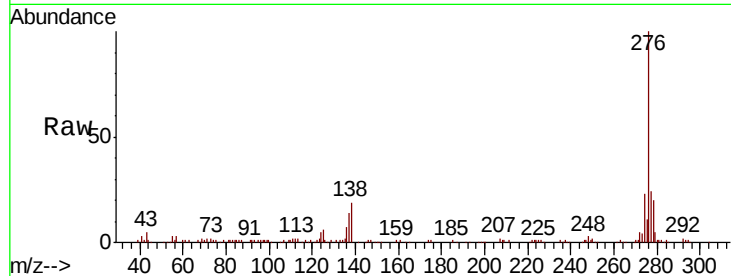
Tot Ion:276 Resp: 182744

Ion Ratio Lower Upper

276 100

138 20.1 18.5 27.7

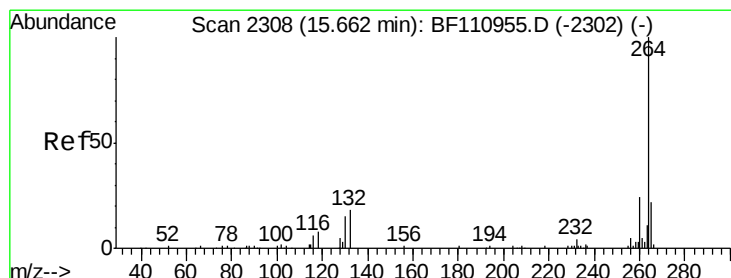
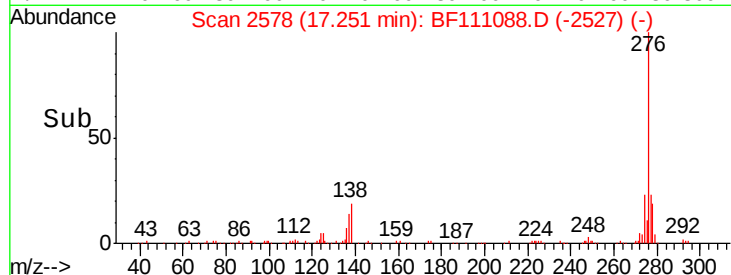
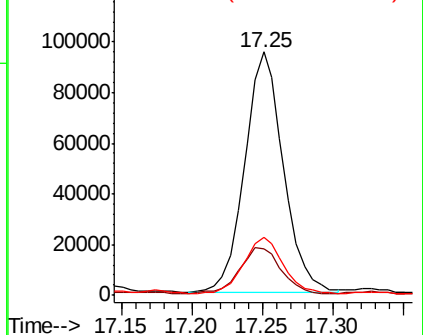
277 23.4 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2308

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

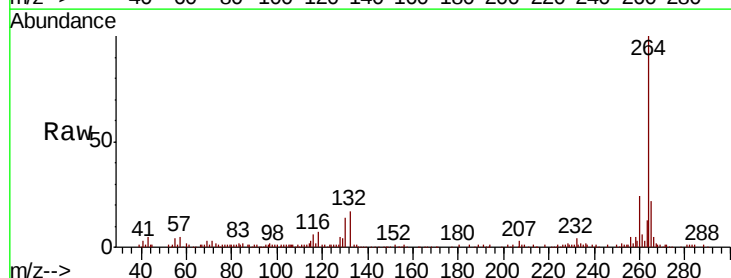
Tgt Ion:264 Resp: 121698

Ion Ratio Lower Upper

264 100

260 24.0 18.7 28.1

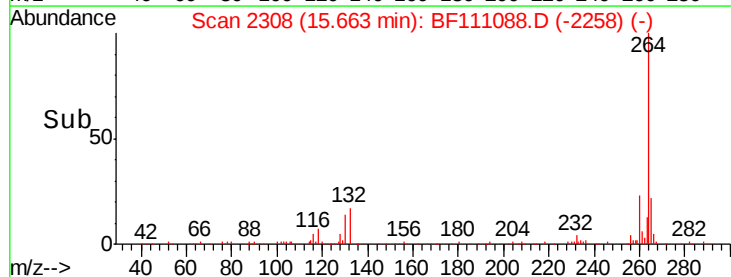
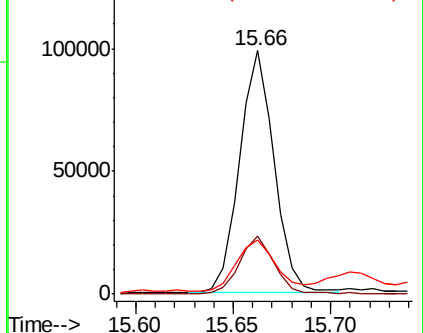
265 22.3 16.7 25.1

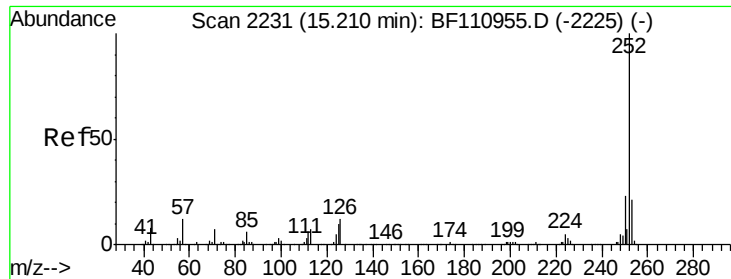


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

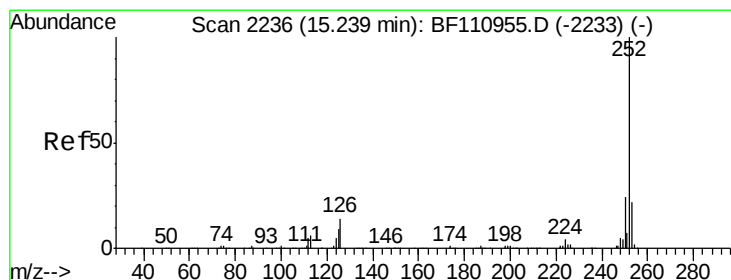
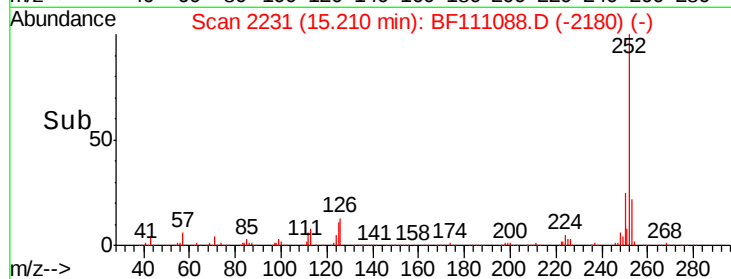
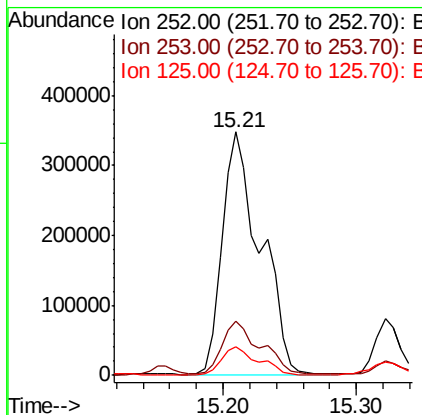
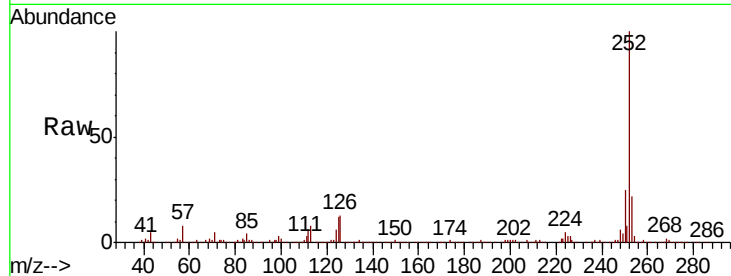




#88
Benzo(b)fluoranthene
Concen: 96.612 ng
RT: 15.21 min Scan# 2231
Delta R.T. 0.00 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

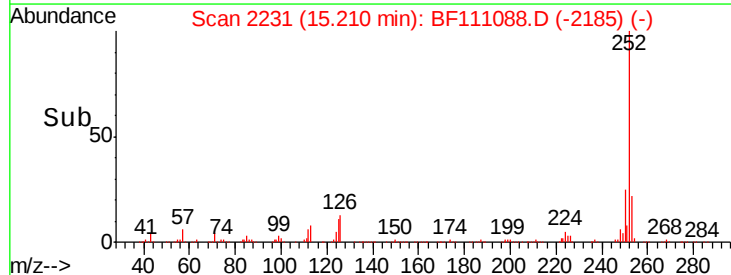
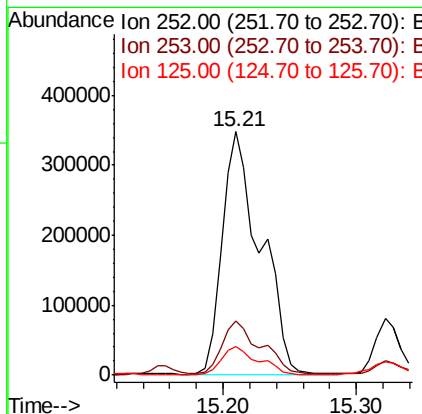
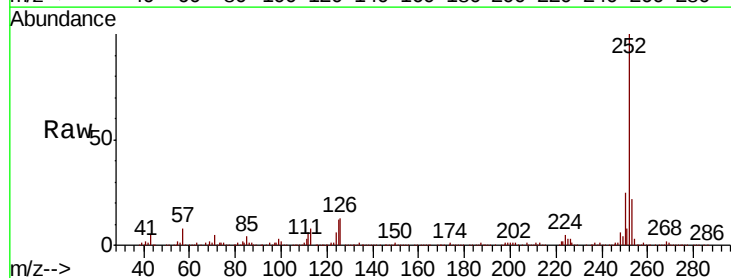
Instrument :
BNA_F
ClientSampleId :

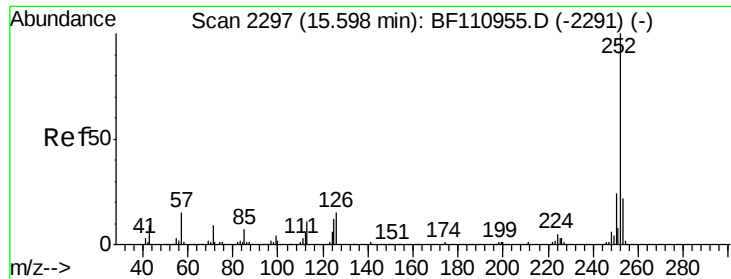
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	11.5	8.2	12.4



#89
Benzo(k)fluoranthene
Concen: 93.863 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.03 min
Lab File: BF111088.D
Acq: 29 Nov 2018 14:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	11.5	7.4	11.0#





#90

Benzo(a)pyrene

Concen: 58.857 ng

RT: 15.60 min Scan# 2297

Delta R.T. -0.01 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

Instrument :

BNA_F

ClientSampleId :

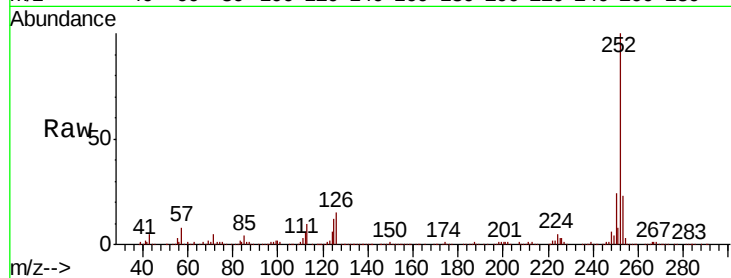
Tot Ion:252 Resp: 391682

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.4

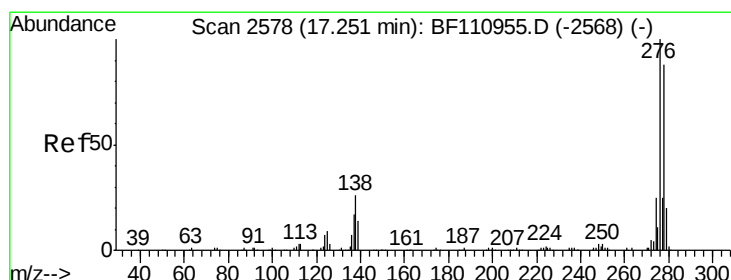
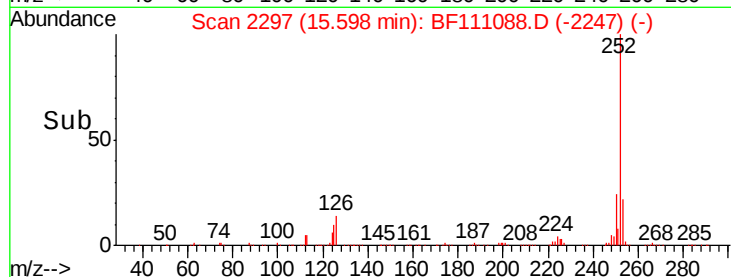
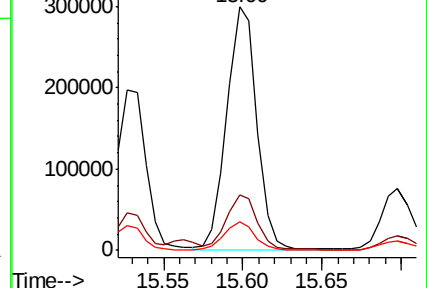
125 12.0 9.0 13.6



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: 7.340 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.18 min

Lab File: BF111088.D

Acq: 29 Nov 2018 14:00

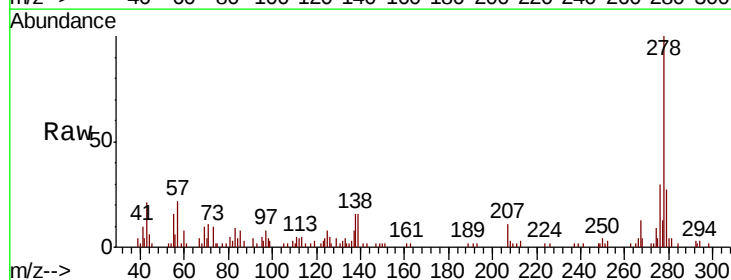
Tgt Ion:278 Resp: 40302

Ion Ratio Lower Upper

278 100

139 16.1 12.7 19.1

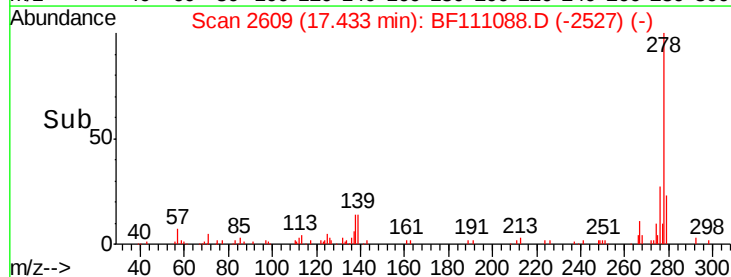
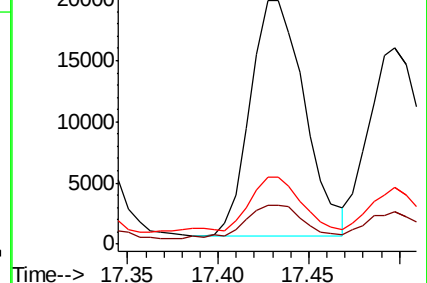
279 27.4 19.0 28.4

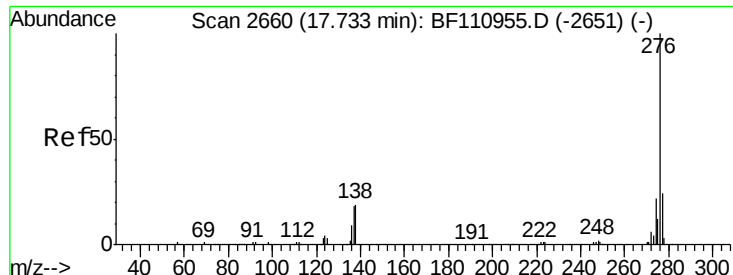


Abundance Ion 278.00 (277.70 to 278.70): E

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: 30.049 ng
 RT: 17.73 min Scan# 2660
 Delta R.T. -0.01 min
 Lab File: BF111088.D
 Acq: 29 Nov 2018 14:00

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:	276	Resp:	159084
Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.8	28.2
138	22.0	16.0	24.0

