

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\
 Data File : BF095170.D
 Acq On : 16 May 2017 22:39
 Operator : SJ/MA
 Sample : I3167-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 17 05:58:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

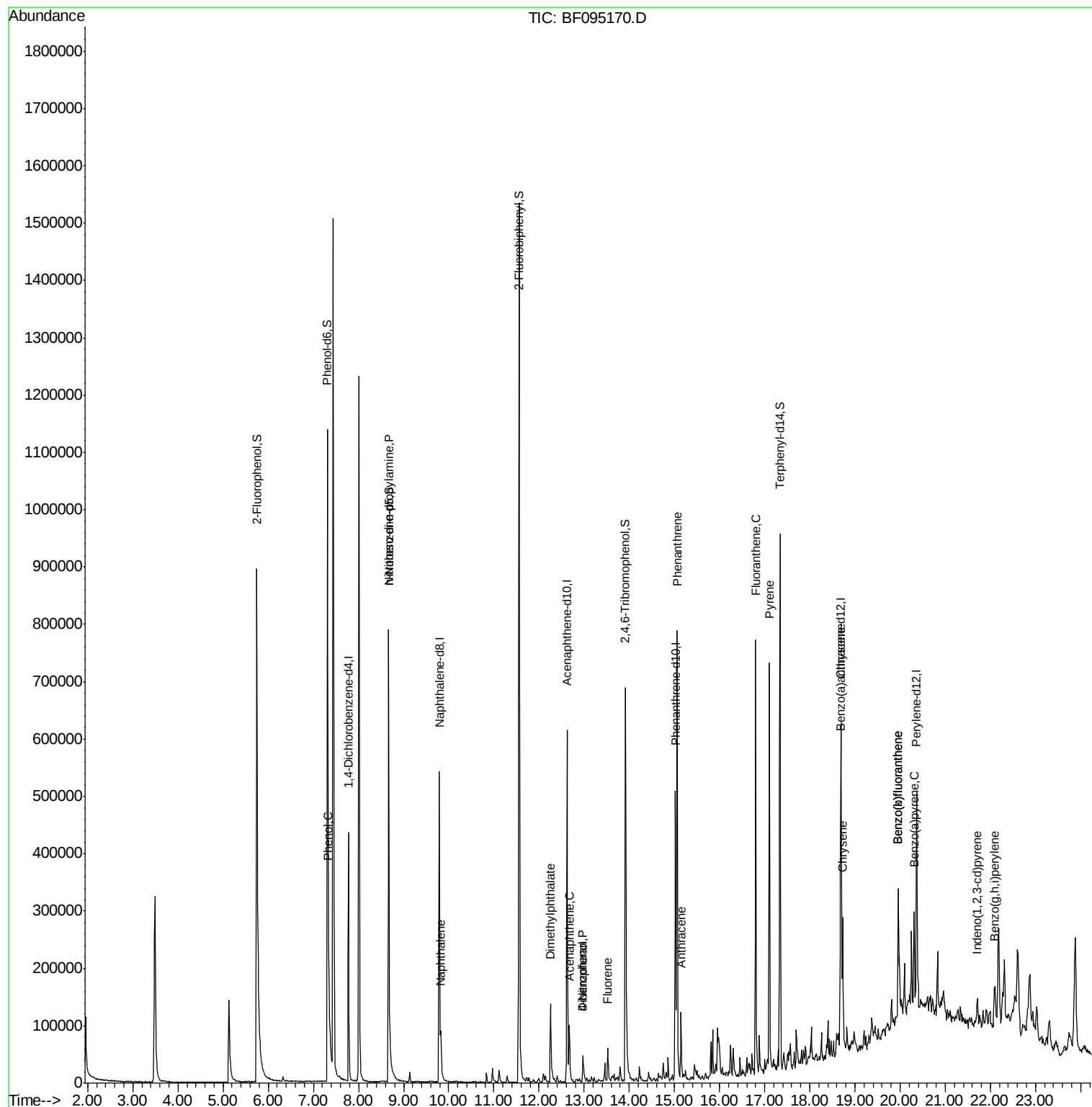
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	101905	20.00	ng	0.05
21) Naphthalene-d8	9.79	136	403618	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	175740	20.00	ng	0.04
63) Phenanthrene-d10	15.02	188	264852	20.00	ng	0.04
75) Chrysene-d12	18.69	240	204525	20.00	ng	0.04
86) Perylene-d12	20.37	264	173739	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.74	112	605813	99.11	ng	0.06
7) Phenol-d6	7.31	99	758724	103.46	ng	0.04
23) Nitrobenzene-d5	8.67	82	418792	65.43	ng	0.04
41) 2,4,6-Tribromophenol	13.92	330	129900	90.26	ng	0.04
44) 2-Fluorobiphenyl	11.56	172	711771	58.30	ng	0.03
78) Terphenyl-d14	17.34	244	374922	40.38	ng	0.02
Target Compounds						Qvalue
10) Phenol	7.34	94	15642	2.02	ng	# 46
19) n-Nitroso-di-n-propylamine	8.67	70	51719	10.43	ng	# 77
31) Naphthalene	9.82	128	51169	2.52	ng	96
49) Dimethylphthalate	12.25	163	106314	7.37	ng	99
51) Acenaphthene	12.67	154	31208	2.79	ng	98
54) Dibenzofuran	12.97	168	37760	2.44	ng	95
55) 4-Nitrophenol	12.97	139	13486	7.11	ng	# 25
57) Fluorene	13.52	166	28033	2.08	ng	# 95
70) Phenanthrene	15.06	178	434261	28.54	ng	98
71) Anthracene	15.15	178	73489	4.73	ng	94
74) Fluoranthene	16.80	202	381412	24.43	ng	98
77) Pyrene	17.10	202	324000	21.18	ng	95
80) Benzo(a)anthracene	18.68	228	110955	9.32	ng	98
82) Chrysene	18.72	228	109609	9.52	ng	98
85) Indeno(1,2,3-cd)pyrene	21.71	276	34829	3.73	ng	92
87) Benzo(b)fluoranthene	19.96	252	151479	14.11	ng	# 97
88) Benzo(k)fluoranthene	19.96	252	151479	14.63	ng	99
89) Benzo(a)pyrene	20.31	252	77928	7.87	ng	94
91) Benzo(a,h,i)perylene	22.10	276	37841	4.71	ng	94

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

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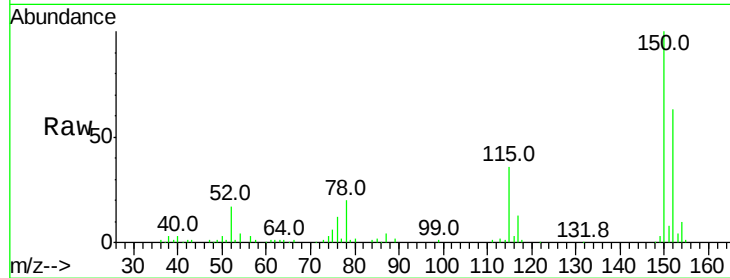


#1

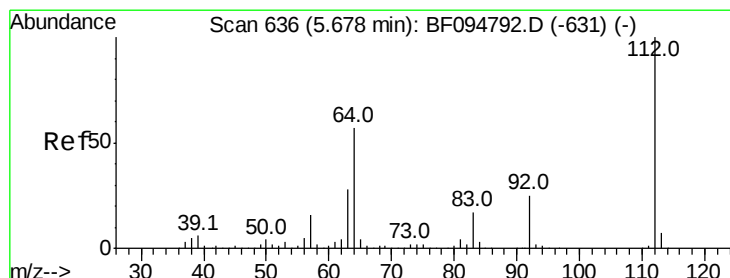
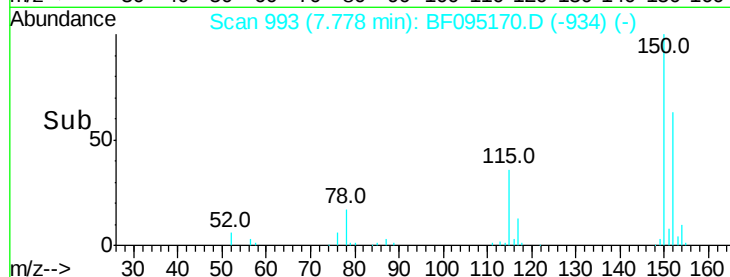
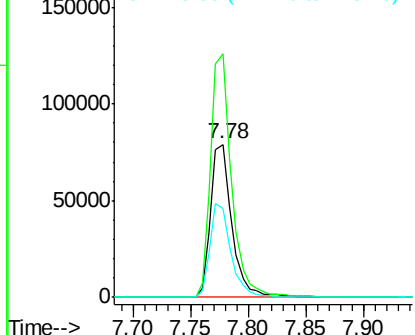
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.78 min Scan# 993
Delta R.T. 0.05 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 101905
Ion Ratio Lower Upper
152 100
150 159.1 126.2 189.2
115 57.9 52.2 78.2



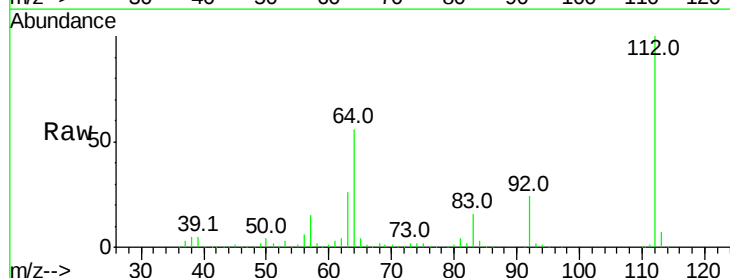
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



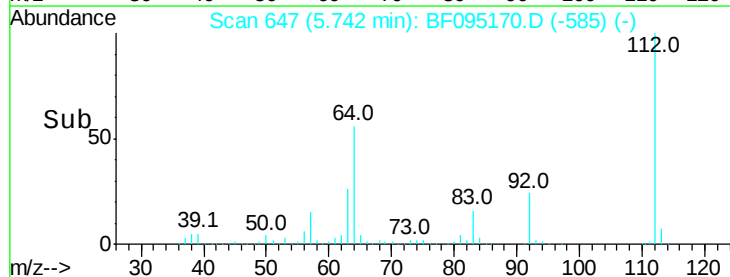
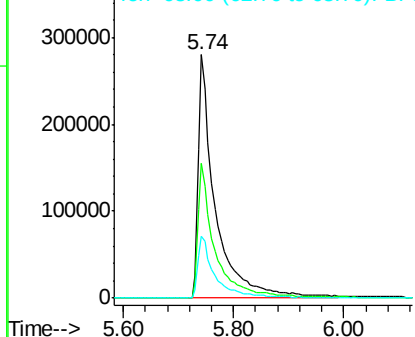
#5

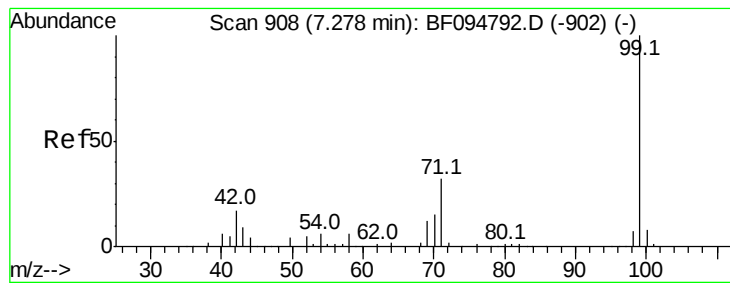
2-Fluorophenol
Concen: 99.11 ng
RT: 5.74 min Scan# 647
Delta R.T. 0.06 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Tgt Ion:112 Resp: 605813
Ion Ratio Lower Upper
112 100
64 55.5 46.0 69.0
63 25.6 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 103.46 ng

RT: 7.31 min Scan# 914

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampled :

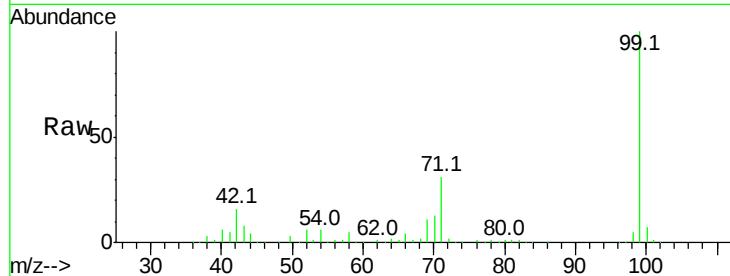
Tot Ion: 99 Resp: 758724

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

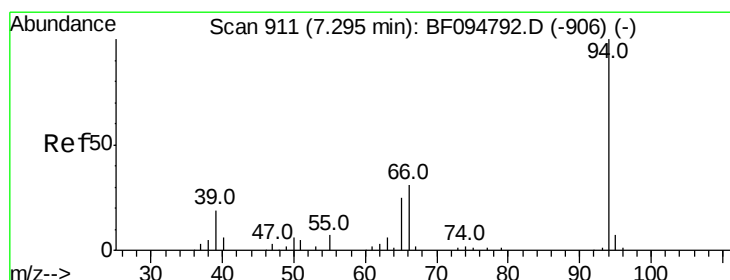
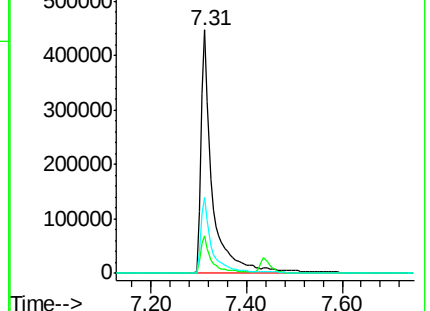
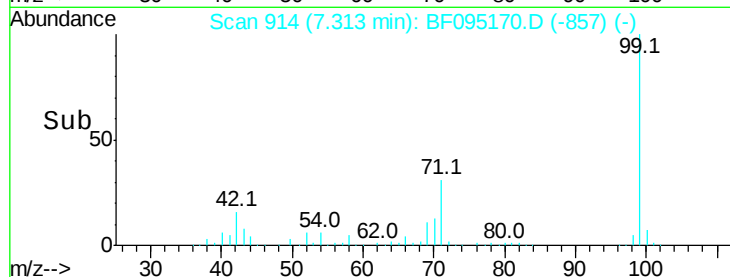
71 31.1 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.02 ng

RT: 7.34 min Scan# 918

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

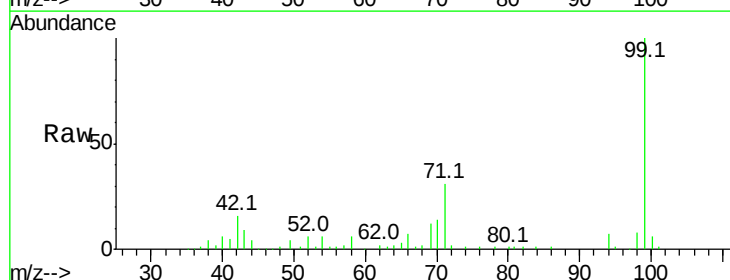
Tgt Ion: 94 Resp: 15642

Ion Ratio Lower Upper

94 100

65 38.3 9.9 49.9

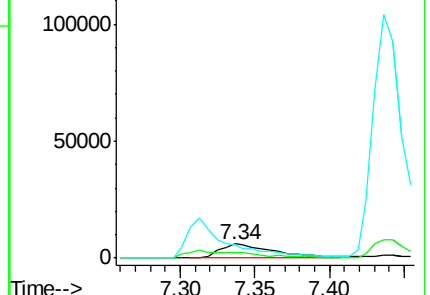
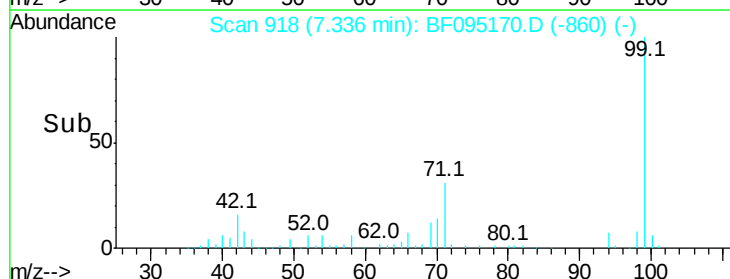
66 95.3 23.1 63.1#



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 10.43 ng

RT: 8.67 min Scan# 1145

Delta R.T. 0.23 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 51719

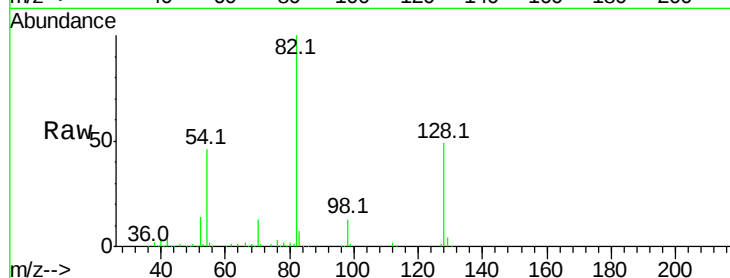
Ion Ratio Lower Upper

70 100

42 45.6 47.2 70.8#

101 0.0 7.2 10.8#

130 2.6 15.9 23.9#



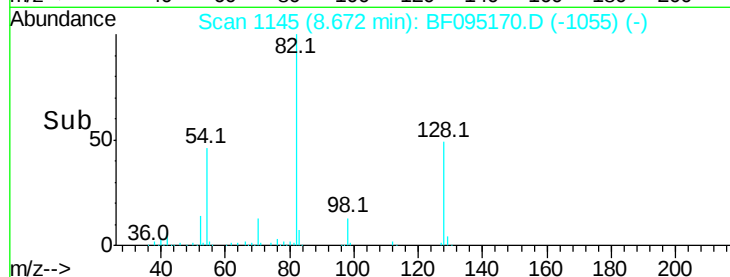
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

Time-->



Abundance

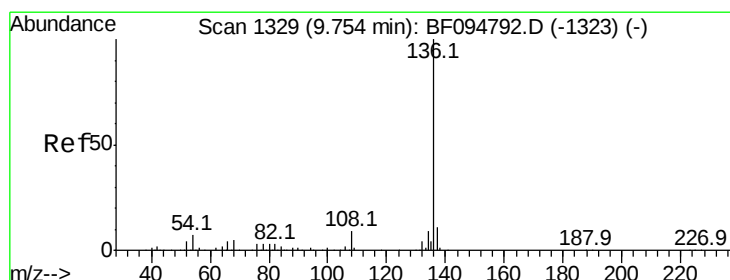
Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.79 min Scan# 1335

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Tgt Ion: 136 Resp: 403618

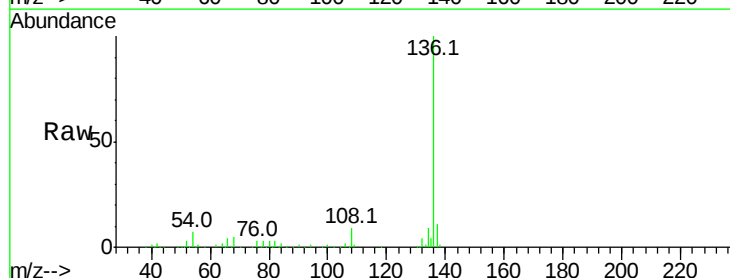
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.8 4.9 7.3

68 5.4 4.1 6.1



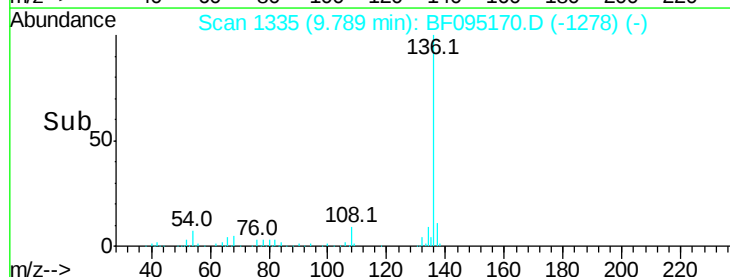
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

Time-->



Abundance

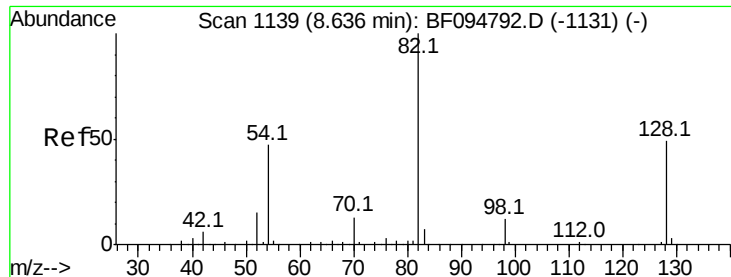
Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

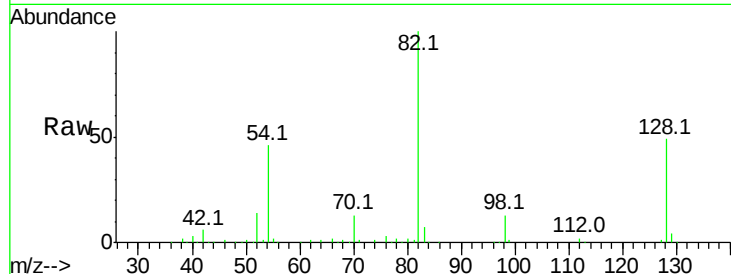
Time-->



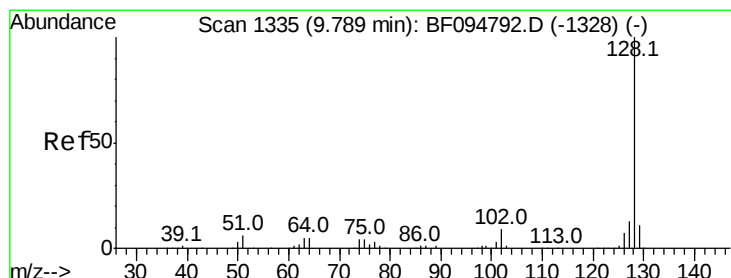
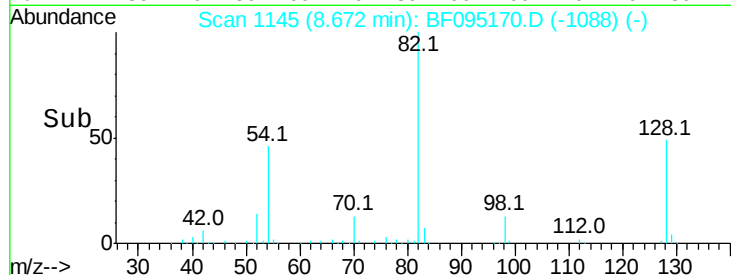
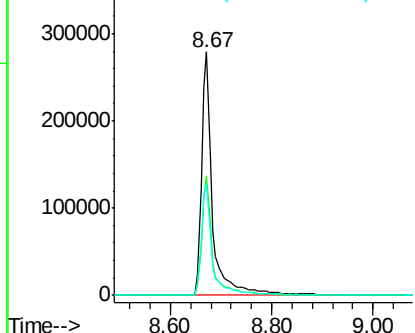
#23
Nitrobenzene-d5
Concen: 65.43 ng
RT: 8.67 min Scan# 1145
Delta R.T. 0.04 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 418792
Ion Ratio Lower Upper
82 100
128 49.1 34.0 51.0
54 45.8 42.2 63.2

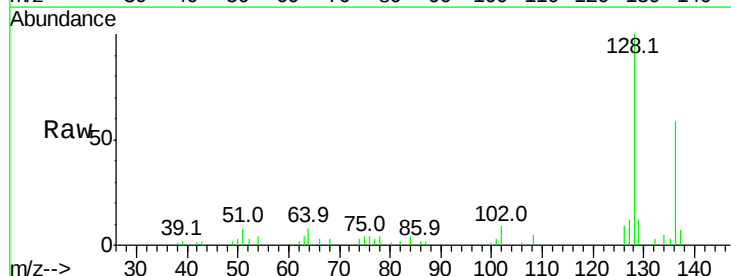


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

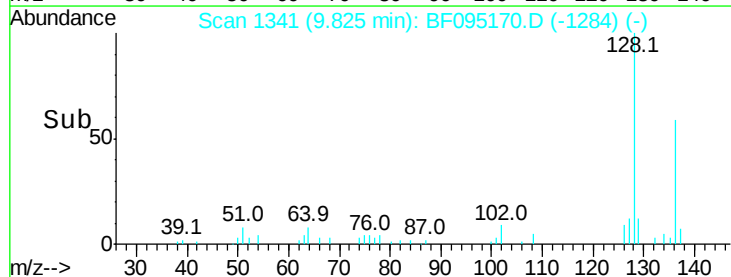
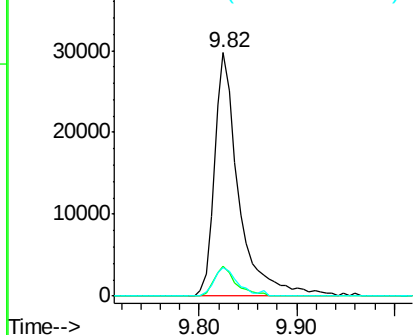


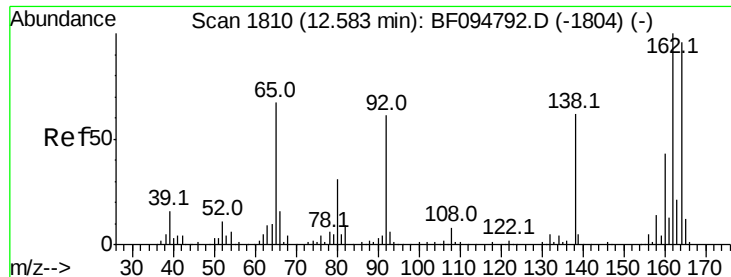
#31
Naphthalene
Concen: 2.52 ng
RT: 9.82 min Scan# 1341
Delta R.T. 0.04 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Tgt Ion:128 Resp: 51169
Ion Ratio Lower Upper
128 100
129 12.4 9.0 13.6
127 11.8 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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.62 min Scan# 1816

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

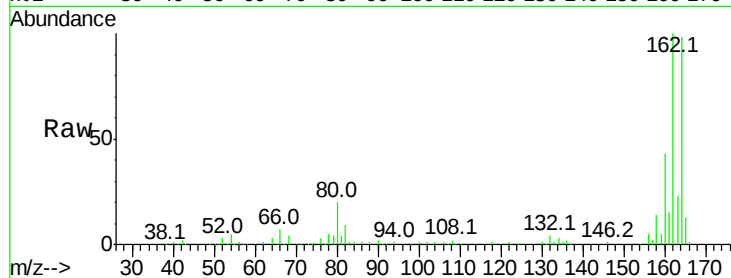
Tot Ion:164 Resp: 175740

Ion Ratio Lower Upper

164 100

162 102.2 82.6 123.8

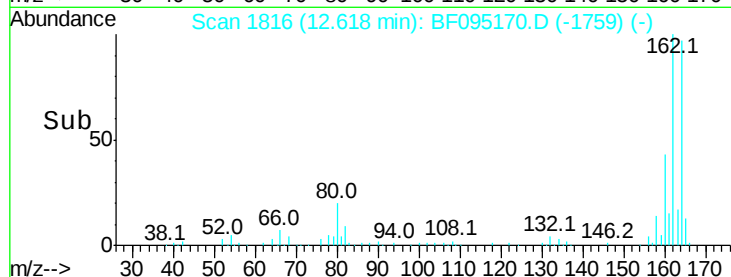
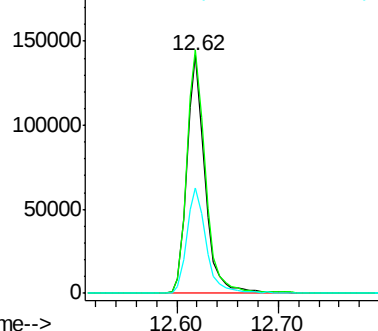
160 44.3 36.2 54.2



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



#41

2,4,6-Tribromophenol

Concen: 90.26 ng

RT: 13.92 min Scan# 2037

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

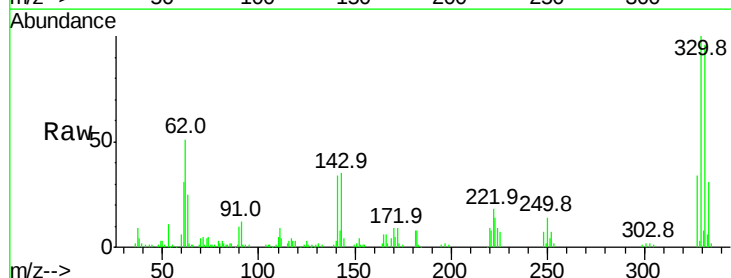
Tgt Ion:330 Resp: 129900

Ion Ratio Lower Upper

330 100

332 95.4 76.6 115.0

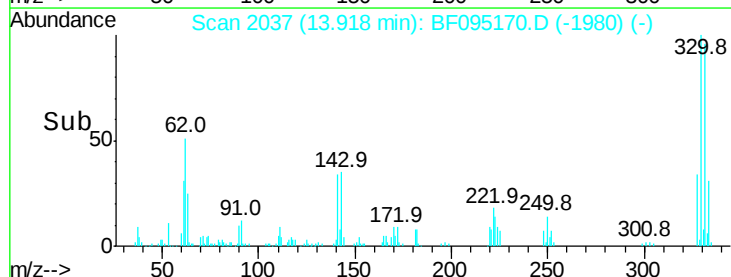
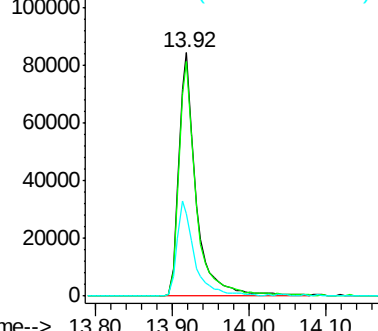
141 39.5 31.4 47.2

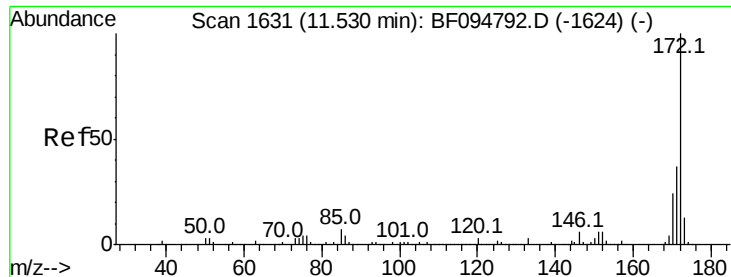


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 58.30 ng

RT: 11.56 min Scan# 1636

Delta R.T. 0.03 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

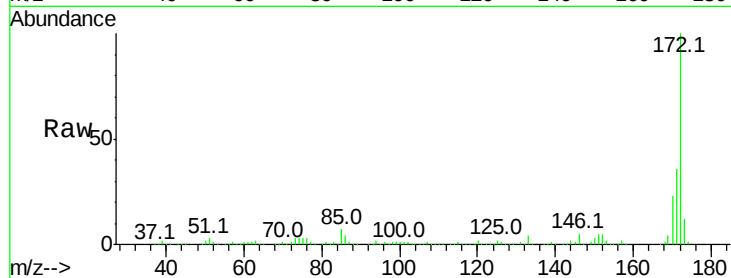
Tot Ion:172 Resp: 711771

Ion Ratio Lower Upper

172 100

171 35.9 29.6 44.4

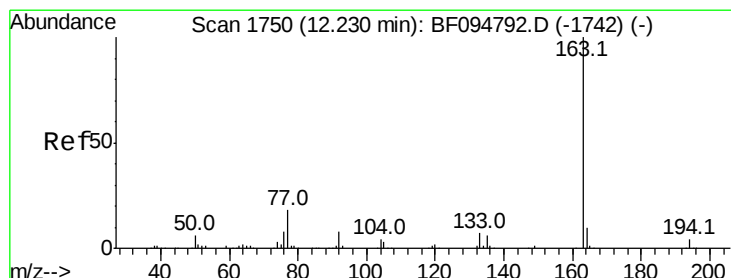
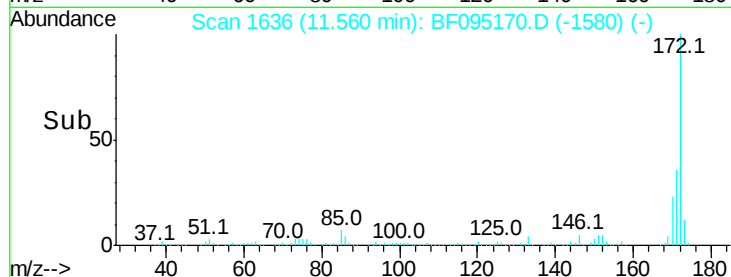
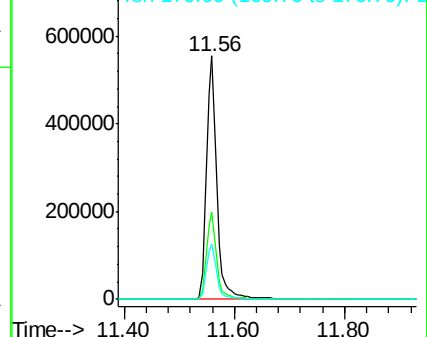
170 23.0 19.8 29.8



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

Dimethylphthalate

Concen: 7.37 ng

RT: 12.25 min Scan# 1754

Delta R.T. 0.02 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

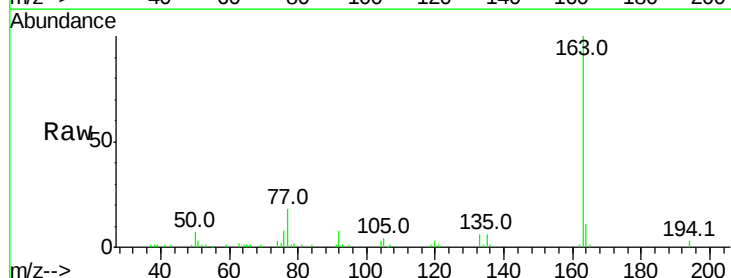
Tgt Ion:163 Resp: 106314

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

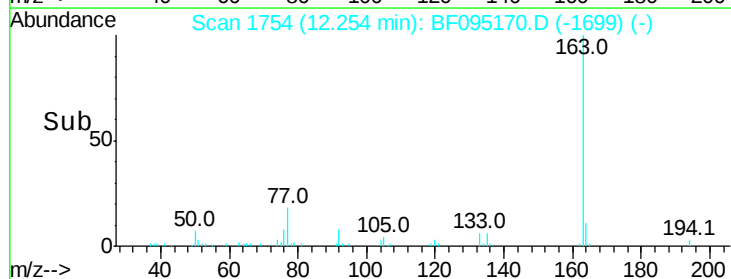
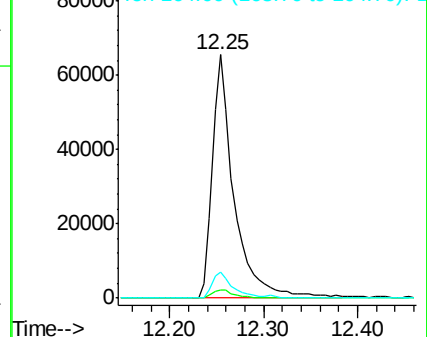
164 10.9 8.4 12.6

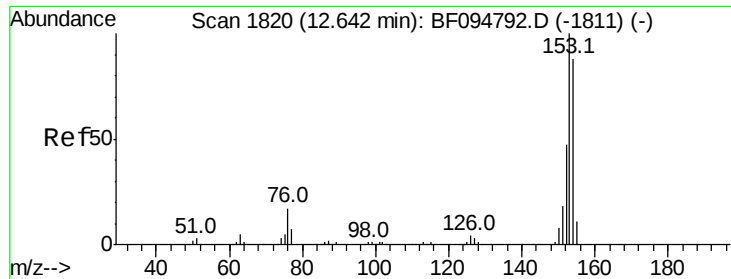


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.79 ng

RT: 12.67 min Scan# 1825

Delta R.T. 0.03 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

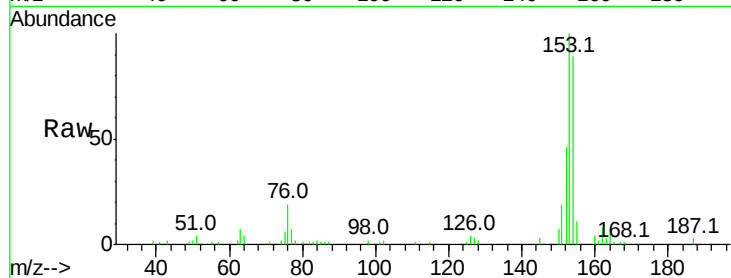
Tot Ion:154 Resp: 31208

Ion Ratio Lower Upper

154 100

153 111.9 90.5 135.7

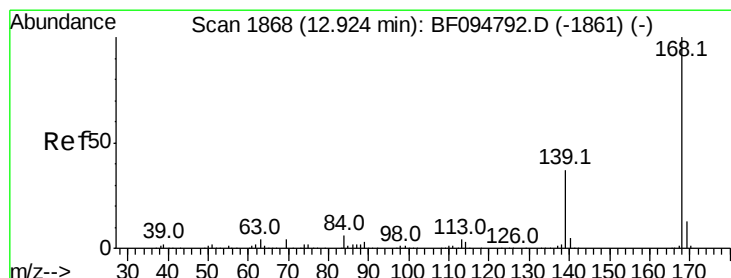
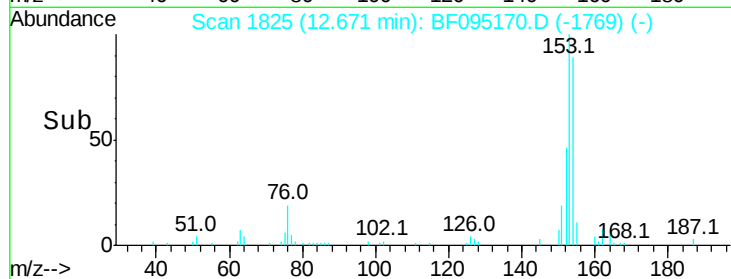
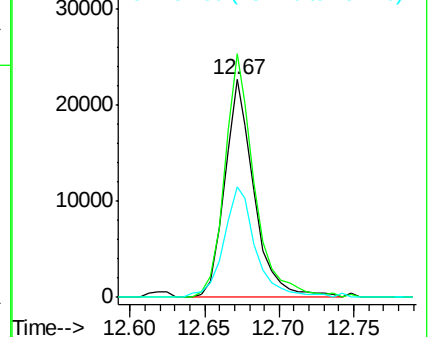
152 51.0 43.6 65.4



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



#54

Dibenzofuran

Concen: 2.44 ng

RT: 12.97 min Scan# 1876

Delta R.T. 0.05 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

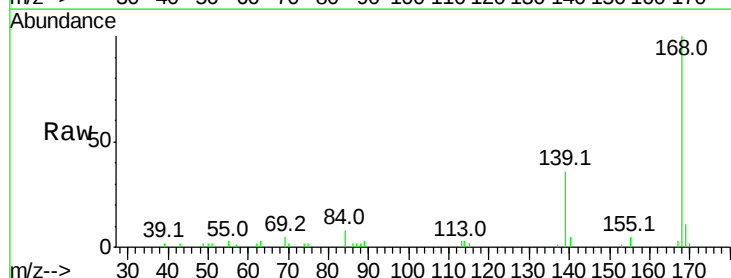
Tgt Ion:168 Resp: 37760

Ion Ratio Lower Upper

168 100

139 35.6 30.6 45.8

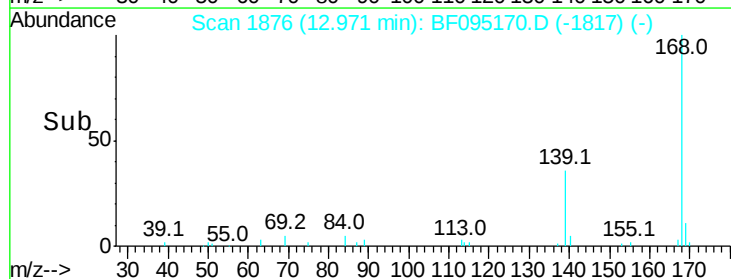
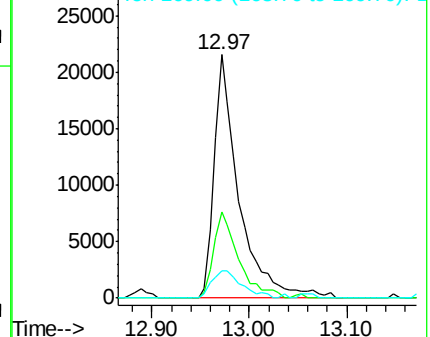
169 11.4 10.8 16.2

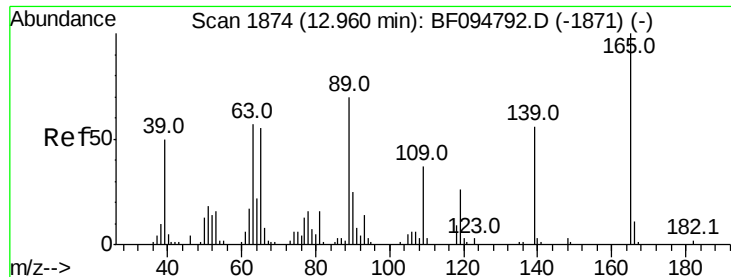


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

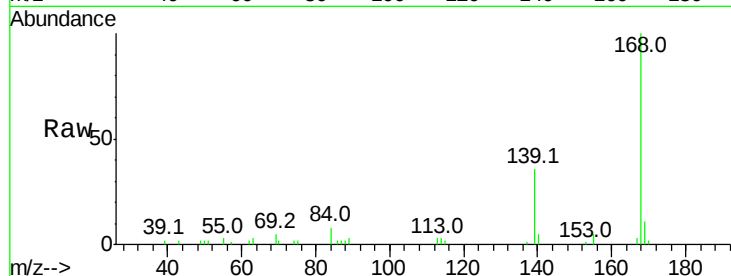




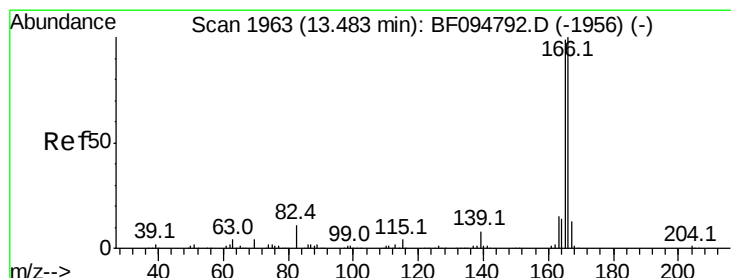
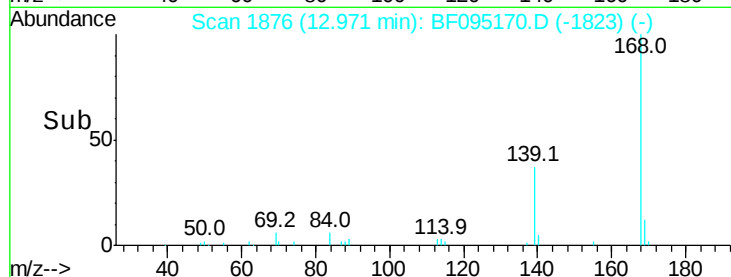
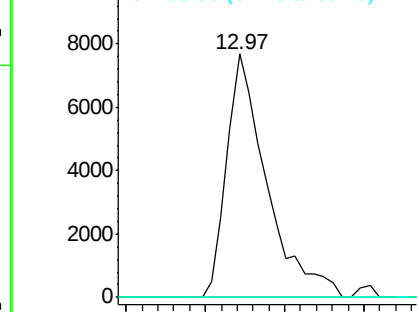
#55
4-Nitrophenol
Concen: 7.11 ng
RT: 12.97 min Scan# 1876
Delta R.T. 0.01 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Instrument :
BNA_F
ClientSampled :

Tot Ion:139 Resp: 13486
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

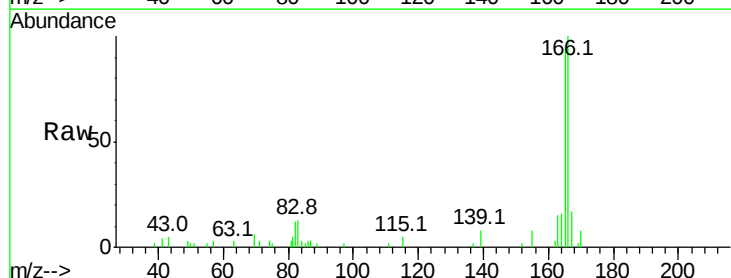


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BFO

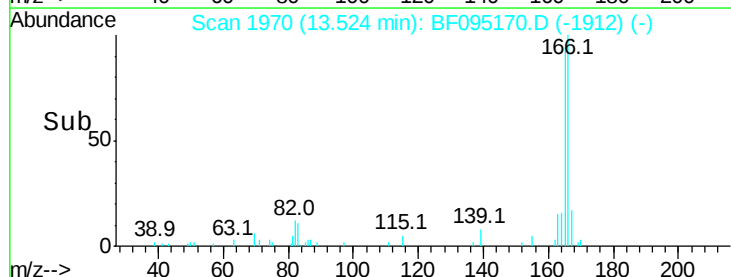
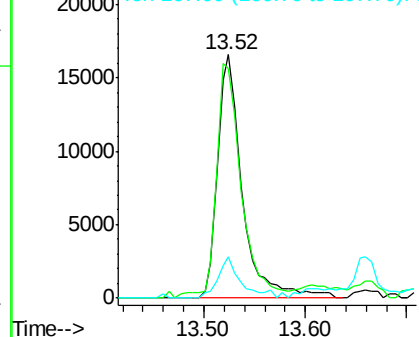


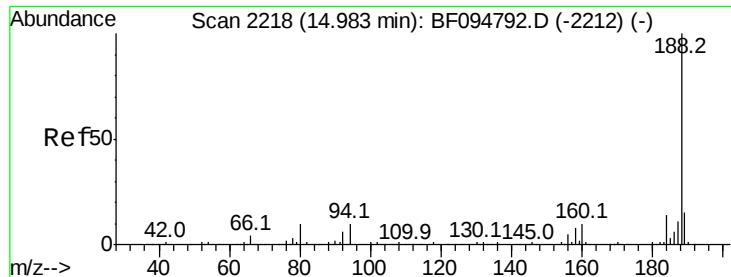
#57
Fluorene
Concen: 2.08 ng
RT: 13.52 min Scan# 1970
Delta R.T. 0.04 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Tgt Ion:166 Resp: 28033
Ion Ratio Lower Upper
166 100
165 94.4 78.8 118.2
167 16.9 10.6 16.0#



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

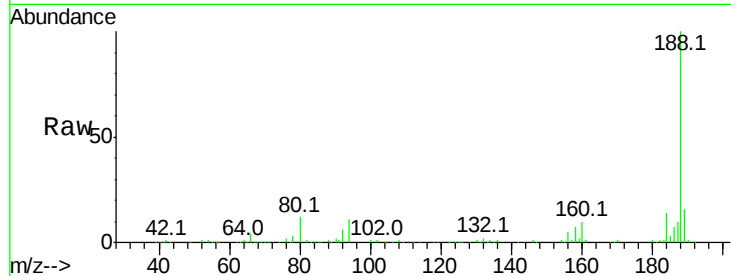




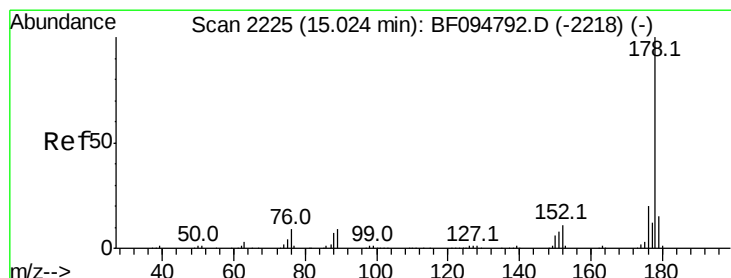
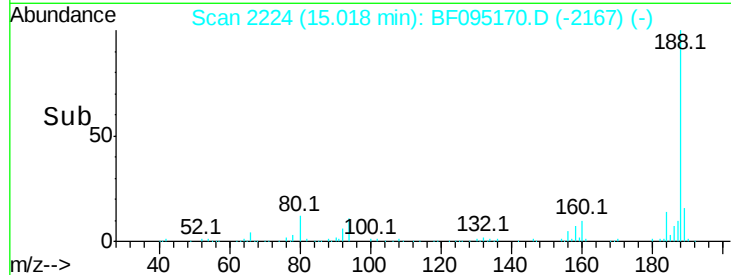
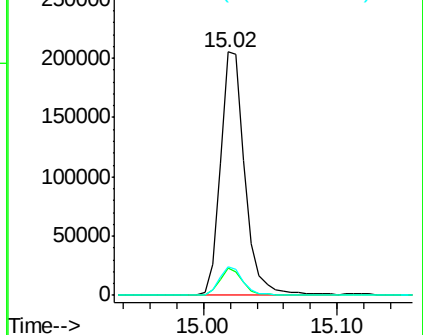
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.02 min Scan# 2224
 Delta R.T. 0.04 min
 Lab File: BF095170.D
 Acq: 16 May 2017 22:39

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 264852
 Ion Ratio Lower Upper
 188 100
 94 11.0 9.4 14.2
 80 11.7 10.2 15.2

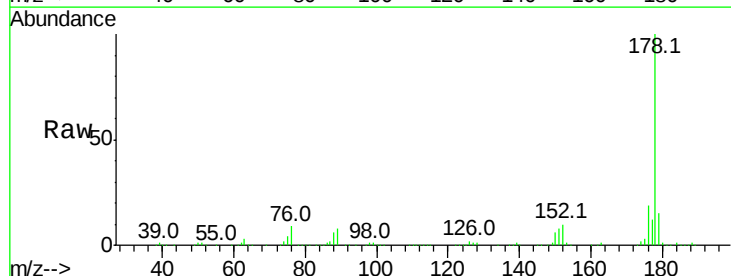


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

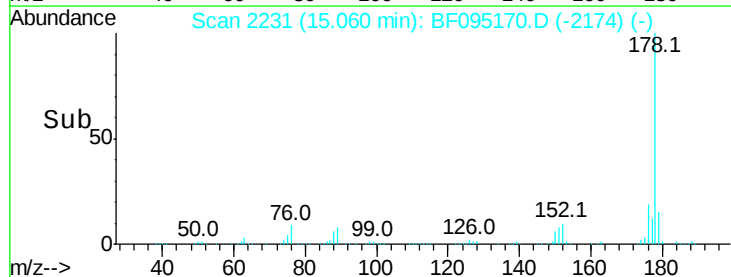
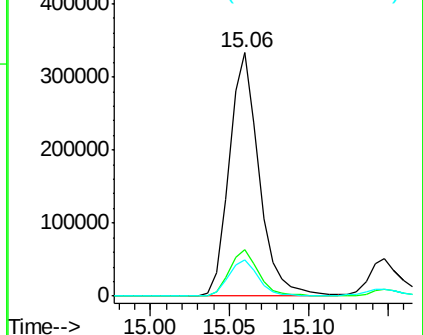


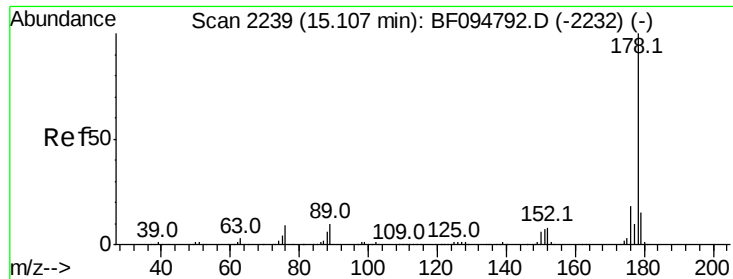
#70
 Phenanthrene
 Concen: 28.54 ng
 RT: 15.06 min Scan# 2231
 Delta R.T. 0.04 min
 Lab File: BF095170.D
 Acq: 16 May 2017 22:39

Tgt Ion:178 Resp: 434261
 Ion Ratio Lower Upper
 178 100
 176 19.1 16.2 24.4
 179 15.1 12.6 19.0



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

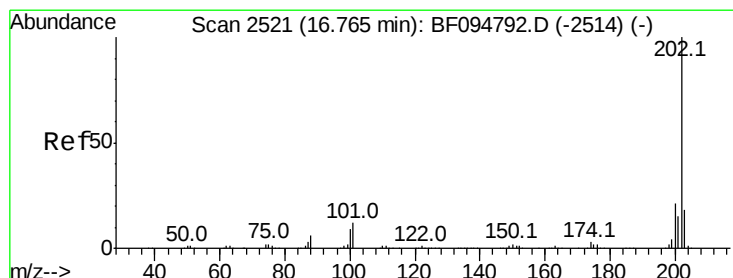
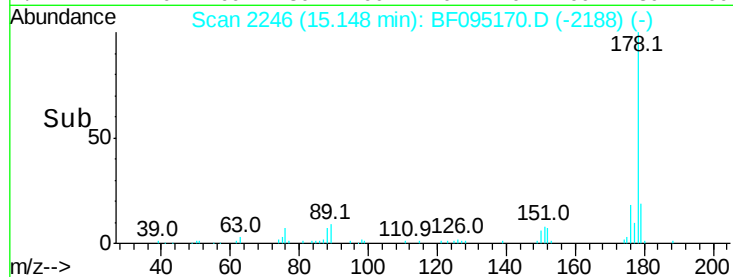
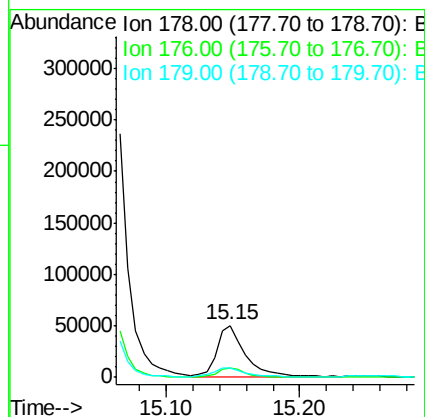
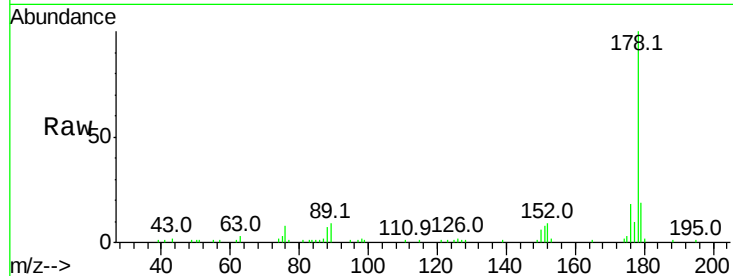




#71
 Anthracene
 Concen: 4.73 ng
 RT: 15.15 min Scan# 2246
 Delta R.T. 0.04 min
 Lab File: BF095170.D
 Acq: 16 May 2017 22:39

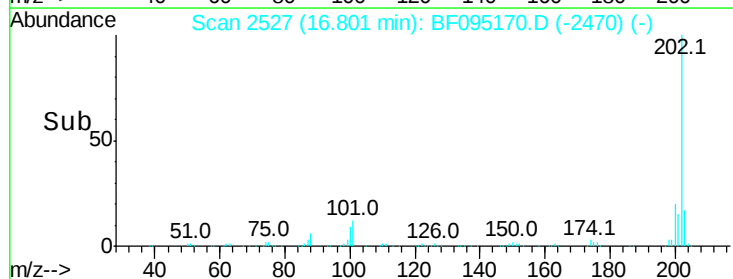
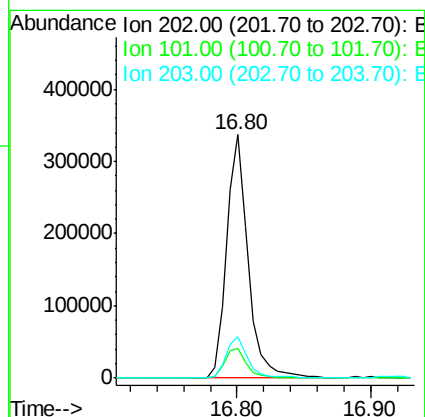
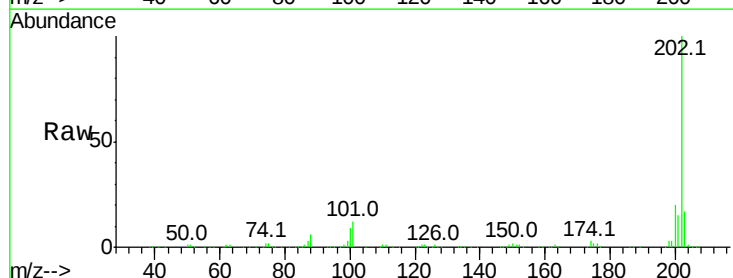
Instrument :
 BNA_F
 ClientSampleId :

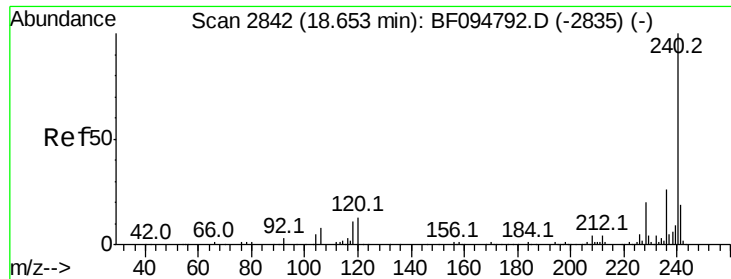
Tot Ion:178 Resp: 73489
 Ion Ratio Lower Upper
 178 100
 176 17.7 15.8 23.8
 179 19.0 12.7 19.1



#74
 Fluoranthene
 Concen: 24.43 ng
 RT: 16.80 min Scan# 2527
 Delta R.T. 0.04 min
 Lab File: BF095170.D
 Acq: 16 May 2017 22:39

Tgt Ion:202 Resp: 381412
 Ion Ratio Lower Upper
 202 100
 101 12.2 0.0 33.2
 203 17.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.69 min Scan# 2848

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampled :

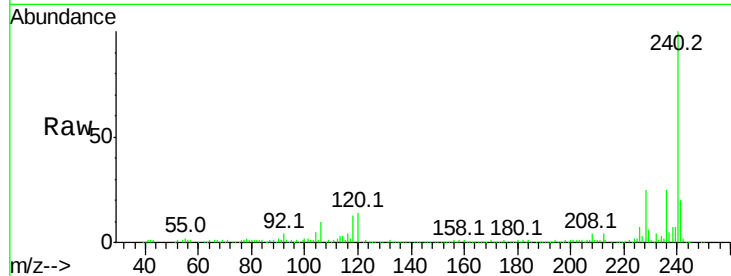
Tot Ion:240 Resp: 204525

Ion Ratio Lower Upper

240 100

120 14.1 5.8 8.8#

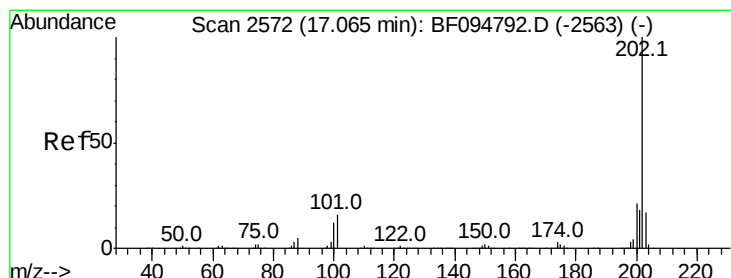
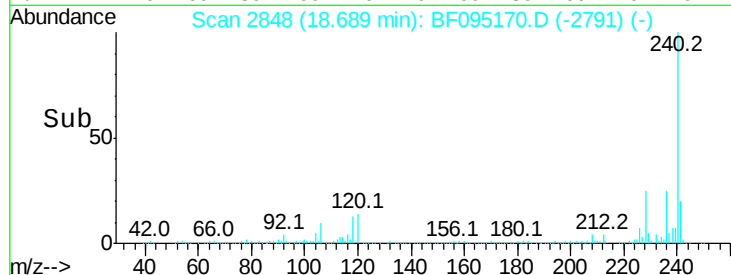
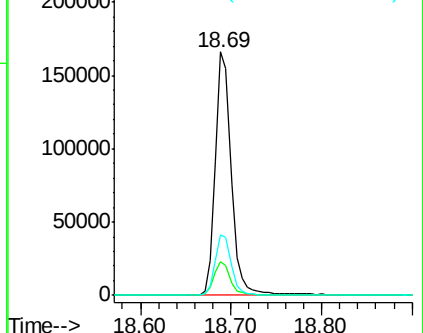
236 24.9 20.5 30.7



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



#77

Pyrene

Concen: 21.18 ng

RT: 17.10 min Scan# 2578

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

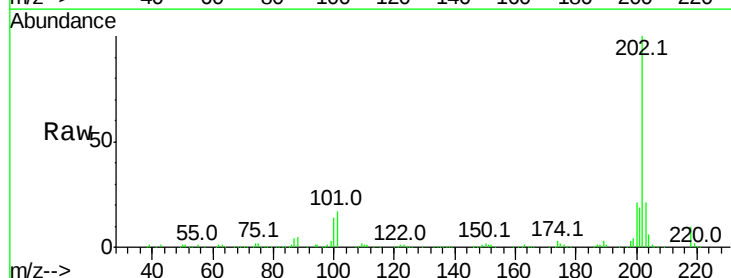
Tgt Ion:202 Resp: 324000

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

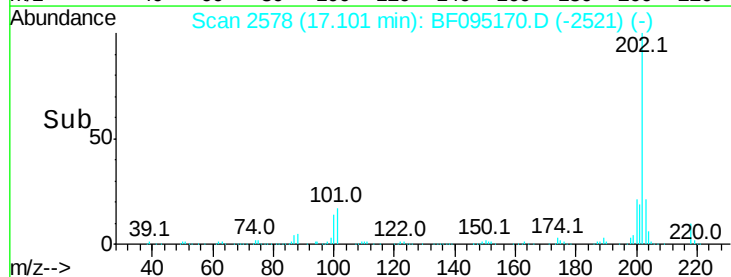
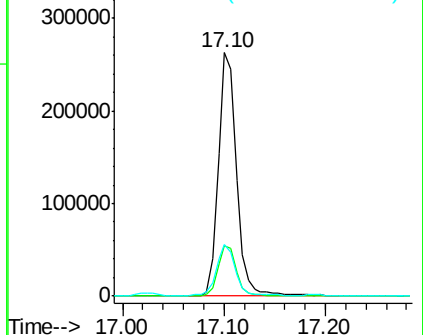
203 21.4 14.4 21.6

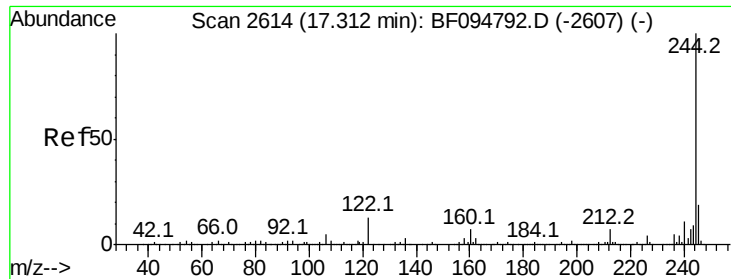


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 40.38 ng

RT: 17.34 min Scan# 2618

Delta R.T. 0.02 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

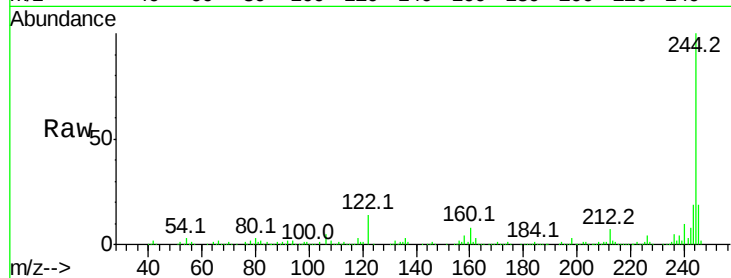
Tot Ion:244 Resp: 374922

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

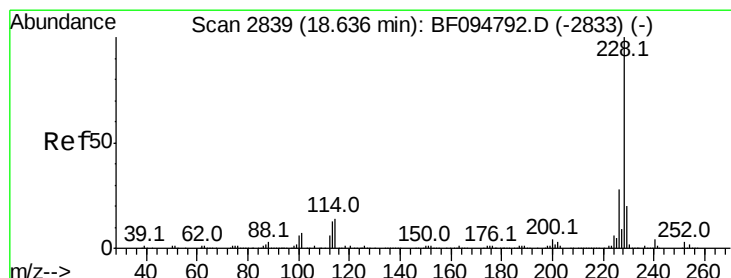
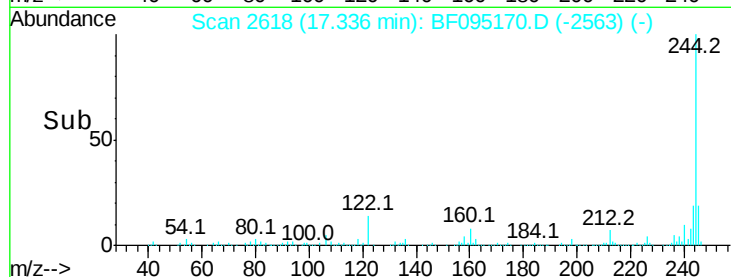
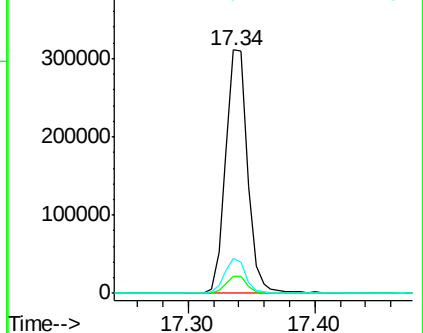
122 14.3 10.3 15.5



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



#80

Benzo(a)anthracene

Concen: 9.32 ng

RT: 18.68 min Scan# 2846

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

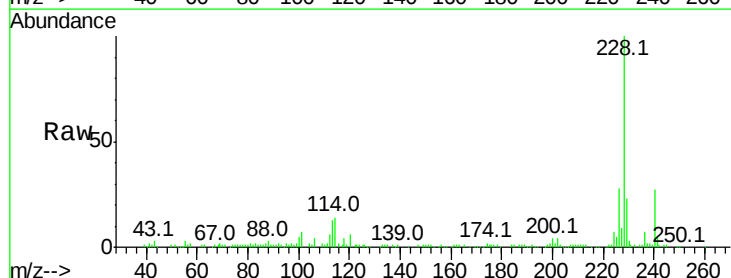
Tgt Ion:228 Resp: 110955

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

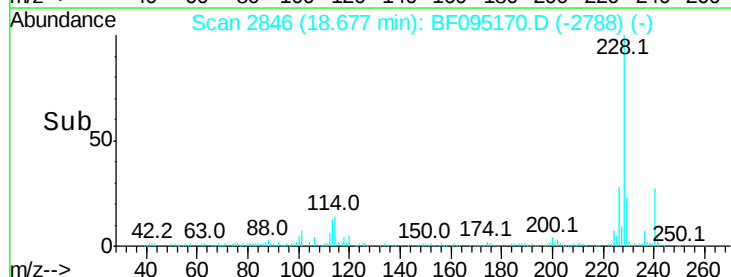
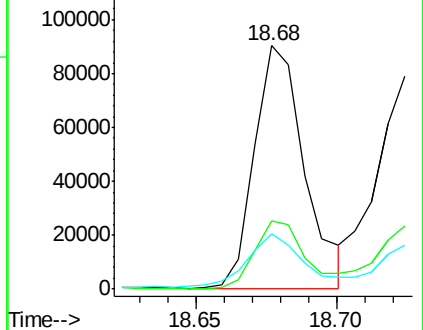
229 22.7 16.3 24.5

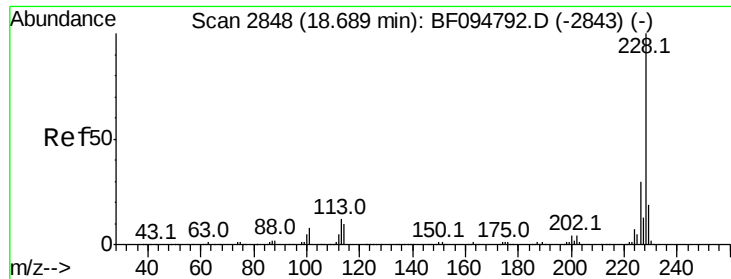


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.52 ng

RT: 18.72 min Scan# 2854

Delta R.T. 0.04 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

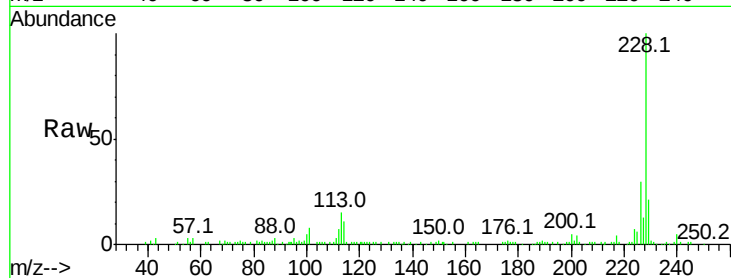
Tot Ion:228 Resp: 109609

Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

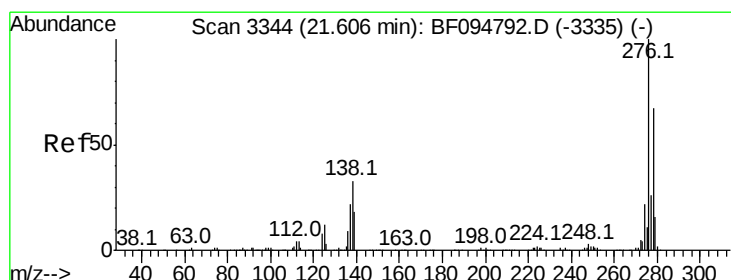
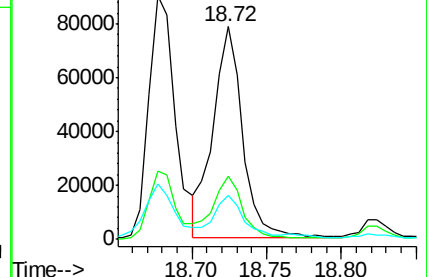
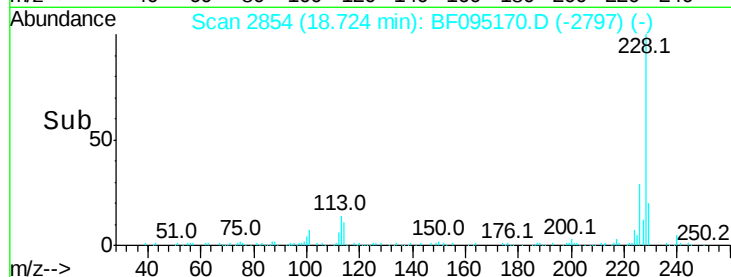
229 20.5 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.73 ng

RT: 21.71 min Scan# 3361

Delta R.T. 0.10 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

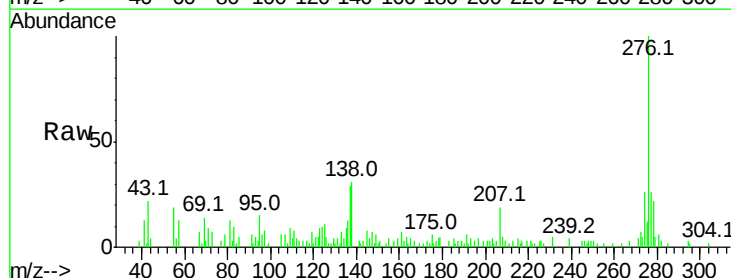
Tgt Ion:276 Resp: 34829

Ion Ratio Lower Upper

276 100

138 28.2 27.8 41.6

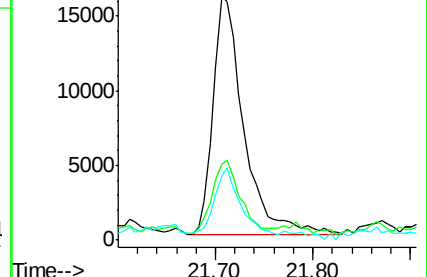
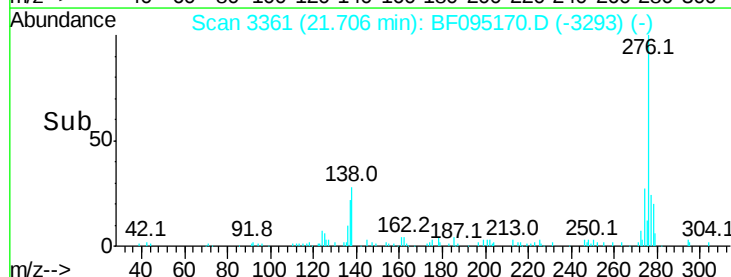
277 23.9 20.2 30.4

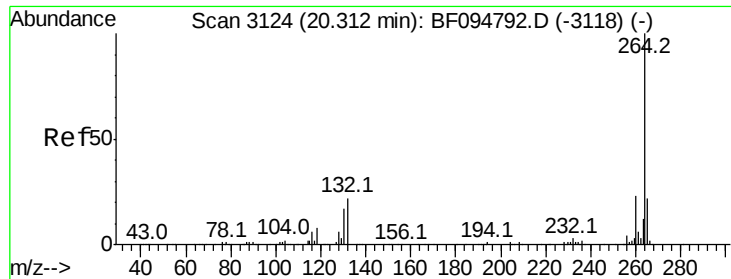


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

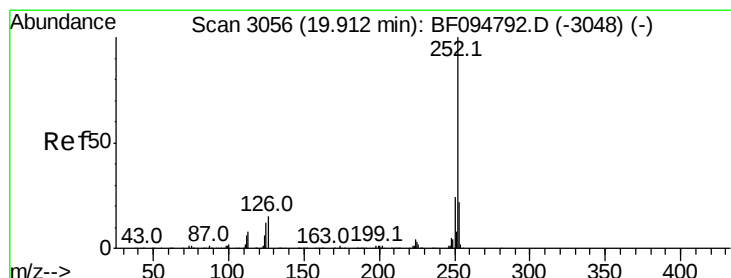
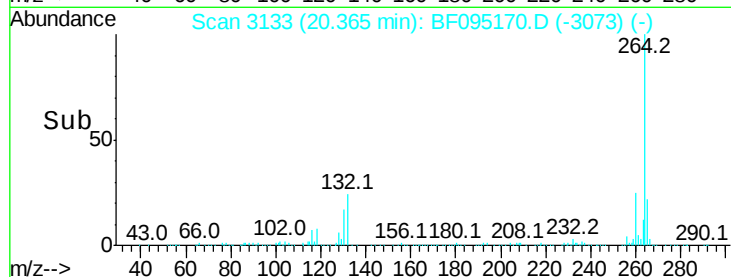
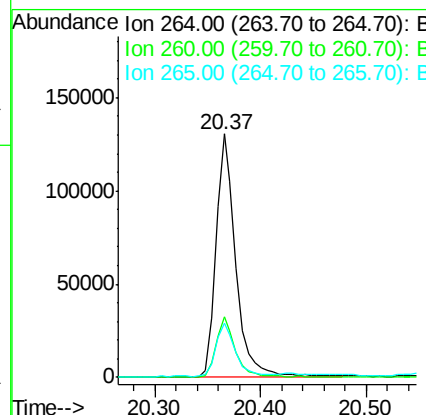
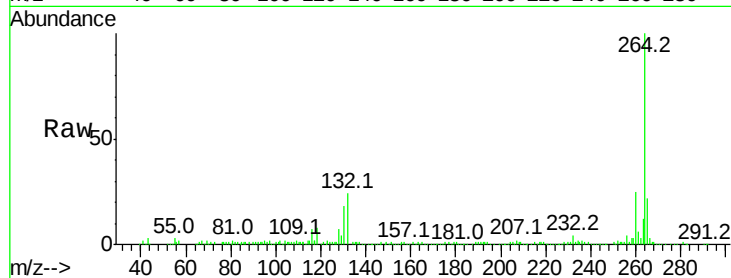




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.37 min Scan# 3133
Delta R.T. 0.05 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

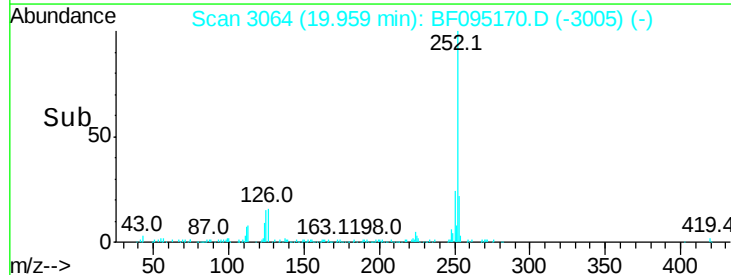
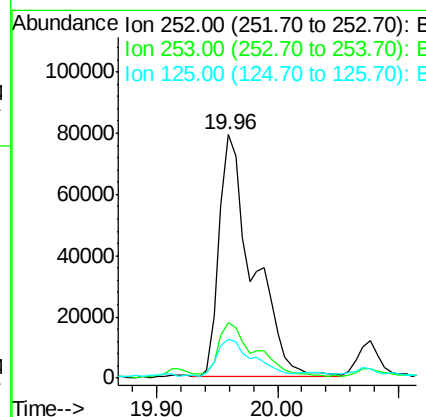
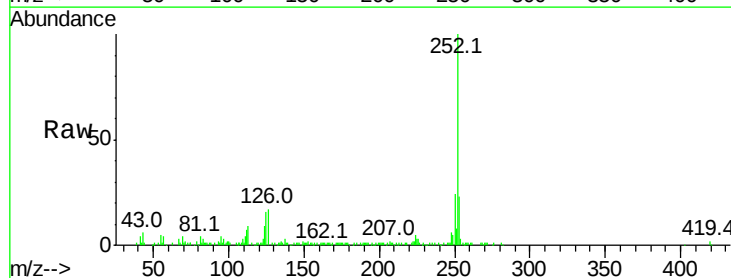
Instrument :
BNA_F
ClientSampleId :

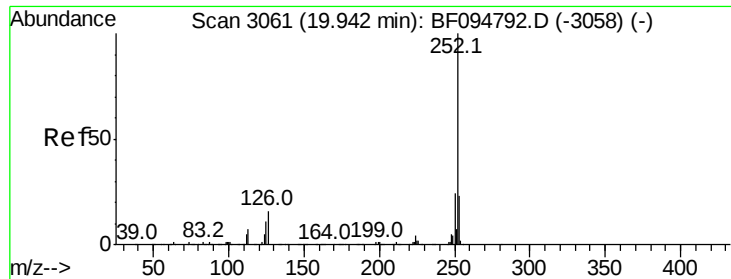
Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	22.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 14.11 ng
RT: 19.96 min Scan# 3064
Delta R.T. 0.05 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.1	27.1
125	16.0	9.8	14.8#

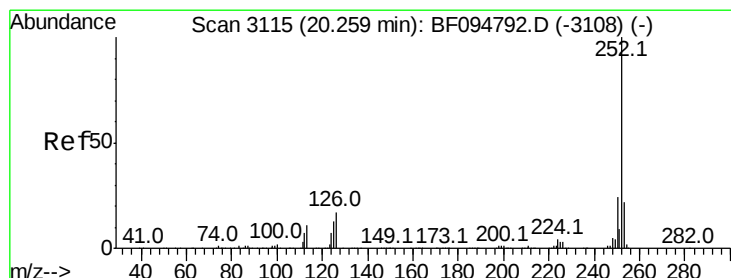
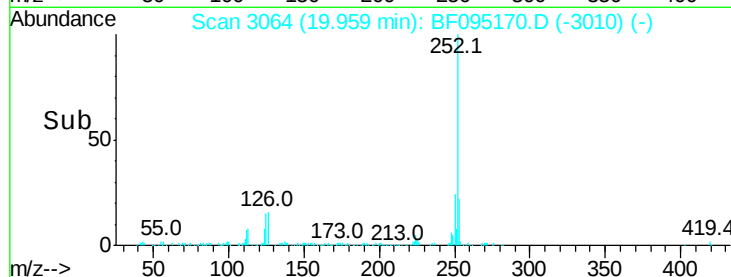
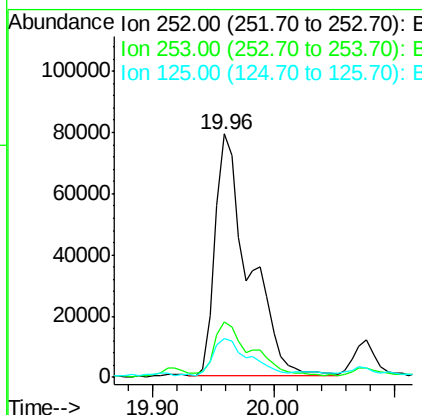
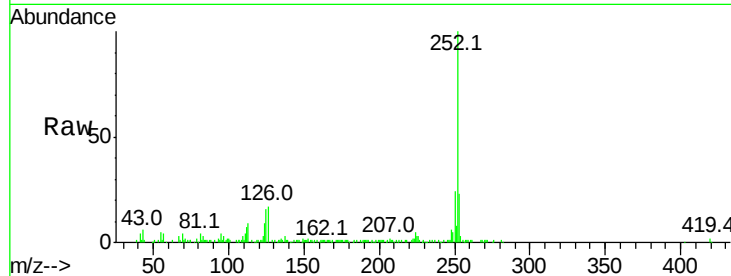




#88
Benzo(k)fluoranthene
Concen: 14.63 ng
RT: 19.96 min Scan# 3064
Delta R.T. 0.02 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

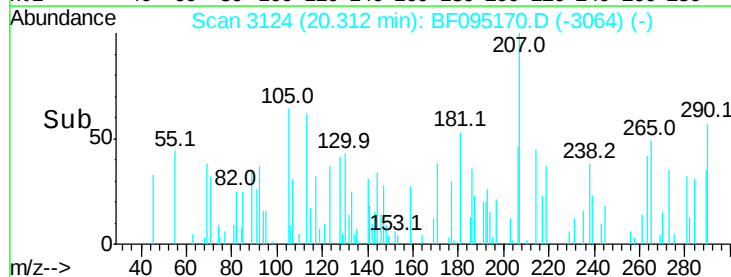
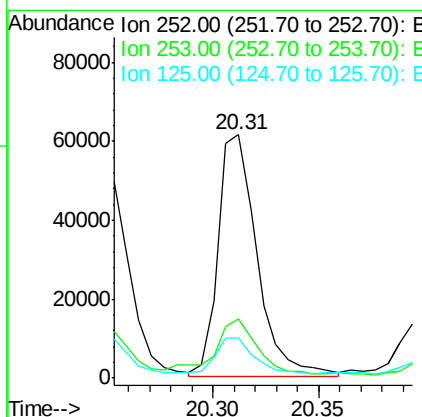
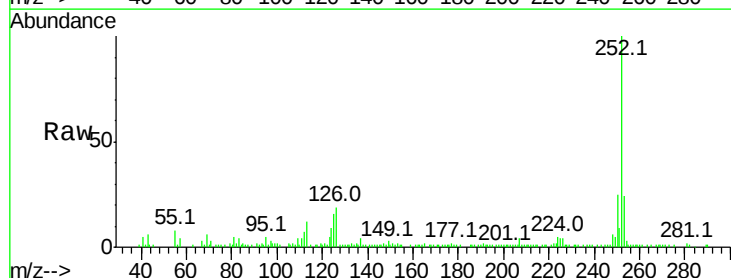
Instrument :
BNA_F
ClientSampleId :

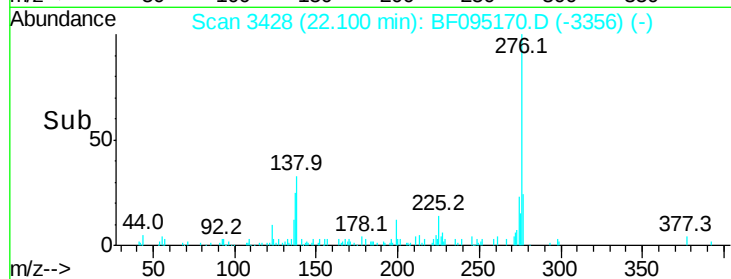
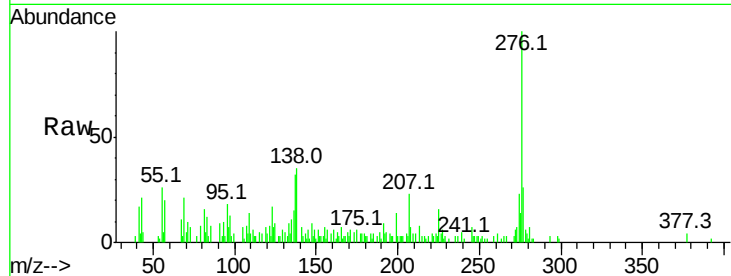
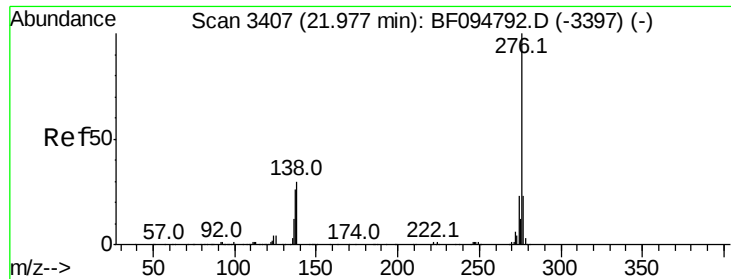
Tot Ion:252 Resp: 151479
Ion Ratio Lower Upper
252 100
253 22.6 18.4 27.6
125 16.0 13.1 19.7



#89
Benzo(a)pyrene
Concen: 7.87 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.05 min
Lab File: BF095170.D
Acq: 16 May 2017 22:39

Tgt Ion:252 Resp: 77928
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 16.3 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 4.71 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.12 min

Lab File: BF095170.D

Acq: 16 May 2017 22:39

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 37841

Ion Ratio Lower Upper

276 100

277 25.9 18.6 28.0

138 35.4 25.4 38.0

