

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095650.D
 Acq On : 2 Jun 2017 23:50
 Operator : SJ/MA
 Sample : I3441-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 03 01:35:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 18:51:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.54	152	84727	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	333202	20.00	ng	0.00
38) Acenaphthene-d10	12.40	164	131276	20.00	ng	0.00
63) Phenanthrene-d10	14.80	188	193056	20.00	ng	0.00
75) Chrysene-d12	18.50	240	177087	20.00	ng	0.00
86) Perylene-d12	20.17	264	128706	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	82943	16.32	ng	0.04
7) Phenol-d6	7.12	99	113980	18.69	ng	0.02
23) Nitrobenzene-d5	8.46	82	62545	11.84	ng	0.00
41) 2,4,6-Tribromophenol	13.70	330	17652	16.42	ng	0.00
44) 2-Fluorobiphenyl	11.34	172	152206	16.69	ng	0.00
78) Terphenyl-d14	17.14	244	93943	11.68	ng	0.00

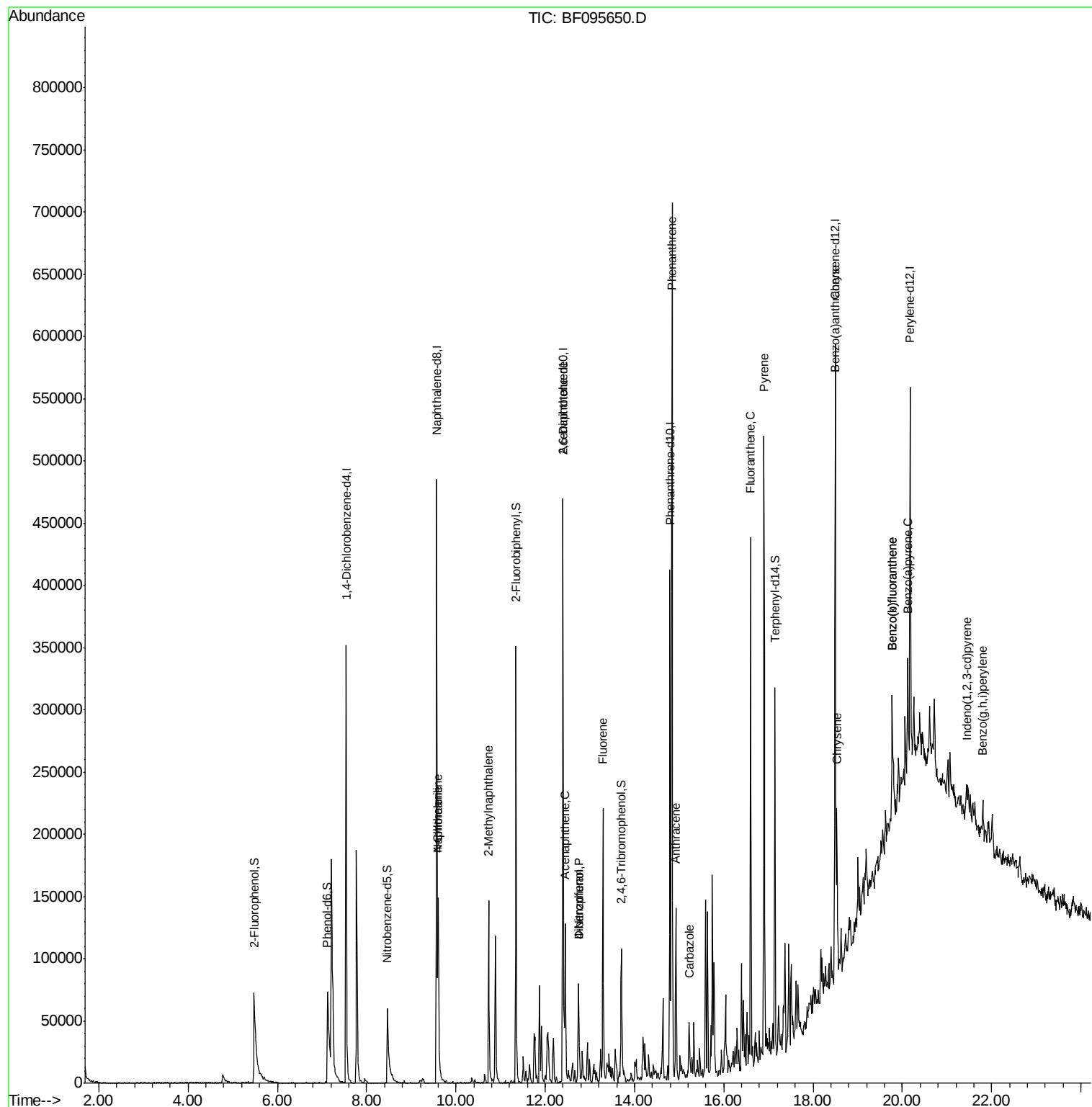
Target Compounds						Qvalue
31) Naphthalene	9.60	128	112891	6.74	ng	98
33) 4-Chloroaniline	9.60	127	14234	2.28	ng	# 38
37) 2-Methylnaphthalene	10.73	142	64726	5.89	ng	96
50) 2,6-Dinitrotoluene	12.40	165	18454	8.39	ng	# 31
51) Acenaphthene	12.45	154	40319	4.83	ng	96
54) Dibenzofuran	12.74	168	46688	4.04	ng	97
55) 4-Nitrophenol	12.74	139	17521	12.36	ng	# 25
57) Fluorene	13.29	166	82086	8.17	ng	99
70) Phenanthrene	14.84	178	388541	35.03	ng	98
71) Anthracene	14.93	178	83235	7.35	ng	96
72) Carbazole	15.23	167	32989	3.20	ng	98
74) Fluoranthene	16.60	202	227657	20.01	ng	98
77) Pvrene	16.90	202	214987	16.23	ng	96
80) Benzo(a)anthracene	18.49	228	66559	6.46	ng	96
82) Chrysene	18.53	228	64420	6.46	ng	97
85) Indeno(1,2,3-cd)pyrene	21.44	276	16602	2.05	ng	94
87) Benzo(b)fluoranthene	19.77	252	63353	7.97	ng	# 93
88) Benzo(k)fluoranthene	19.77	252	63353	8.26	ng	98
89) Benzo(a)pvrene	20.12	252	37112	5.06	ng	# 89
91) Benzo(a,h,i)perylene	21.80	276	15146	2.55	ng	# 80

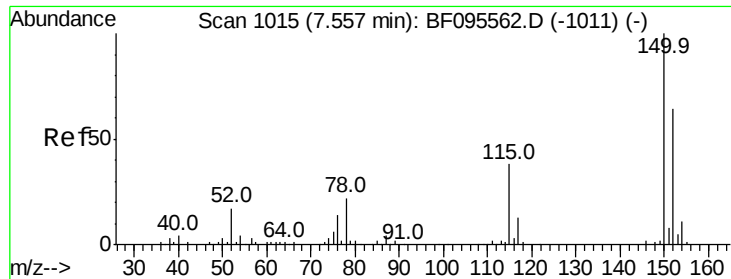
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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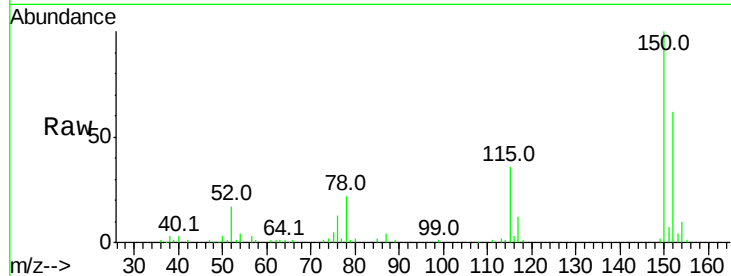


#1

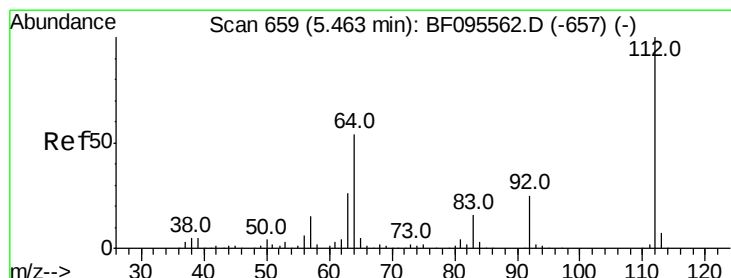
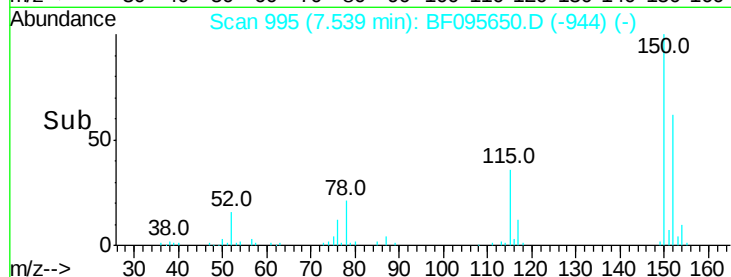
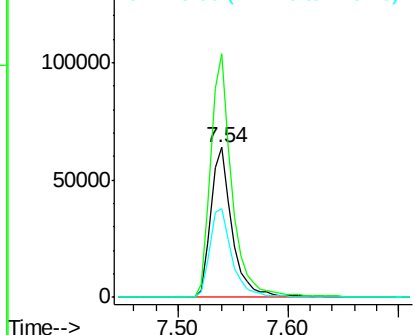
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.54 min Scan# 995
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	126.2	189.2
115	58.8	52.2	78.2



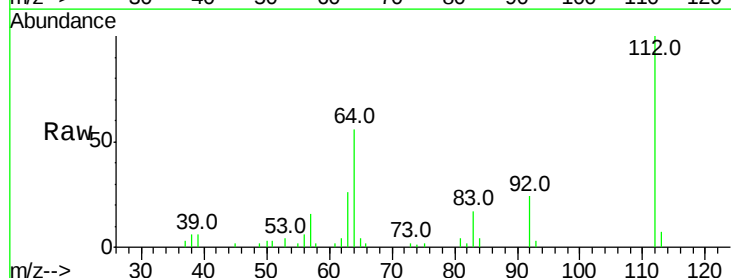
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



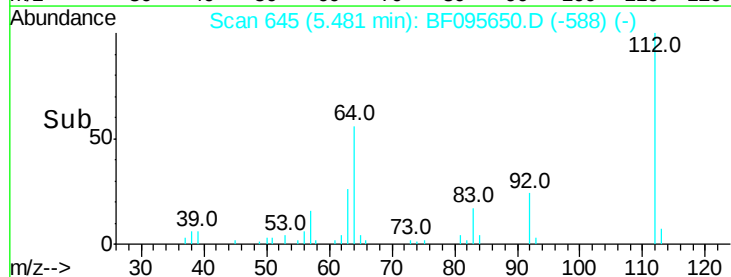
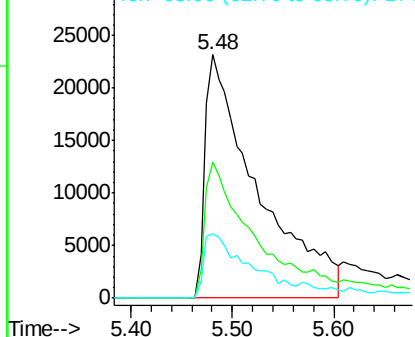
#5

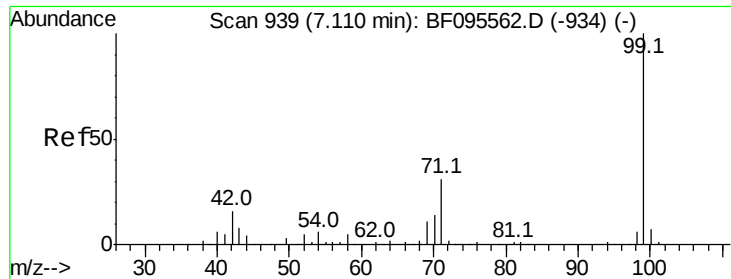
2-Fluorophenol
Concen: 16.32 ng
RT: 5.48 min Scan# 645
Delta R.T. 0.04 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.0	69.0
63	26.4	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: 18.69 ng

RT: 7.12 min Scan# 924

Delta R.T. 0.02 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

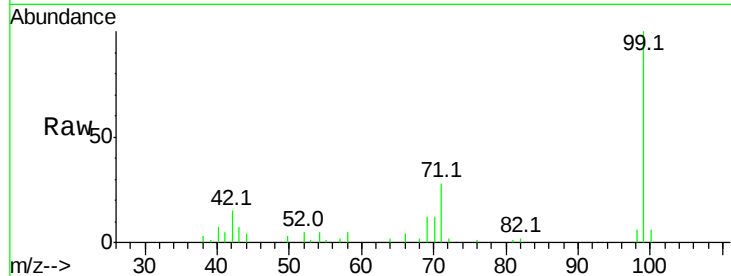
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 113980

Ion	Ratio	Lower	Upper
99	100		
42	15.2	13.5	20.3
71	27.9	24.5	36.7

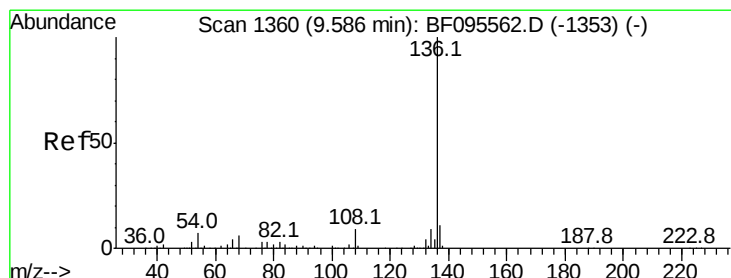
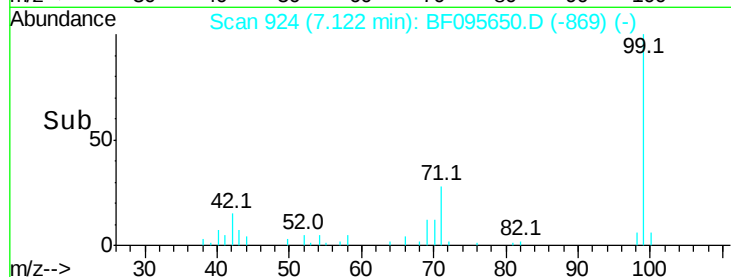
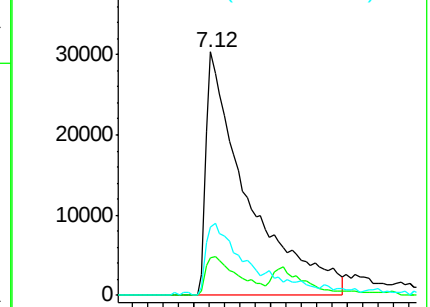


Abundance

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.57 min Scan# 1340

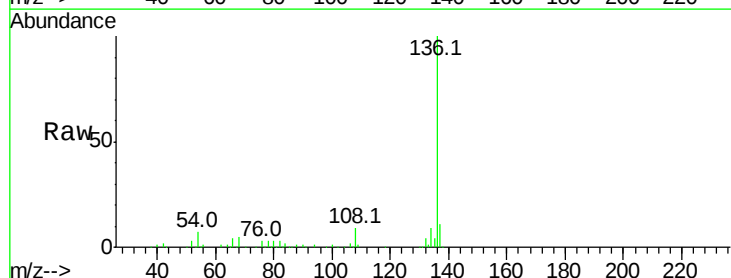
Delta R.T. -0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion: 136 Resp: 333202

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	6.7	4.9	7.3
68	5.2	4.1	6.1



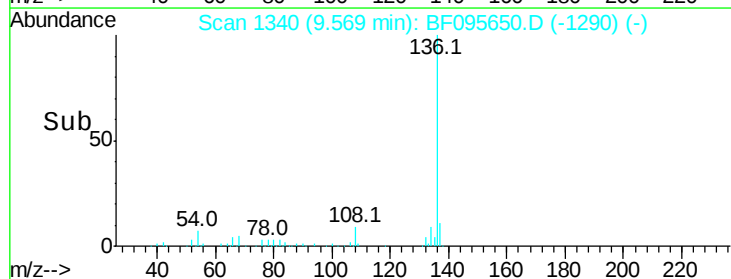
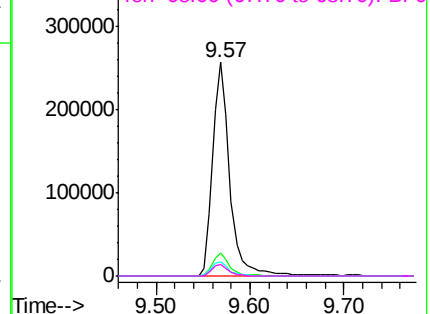
Abundance

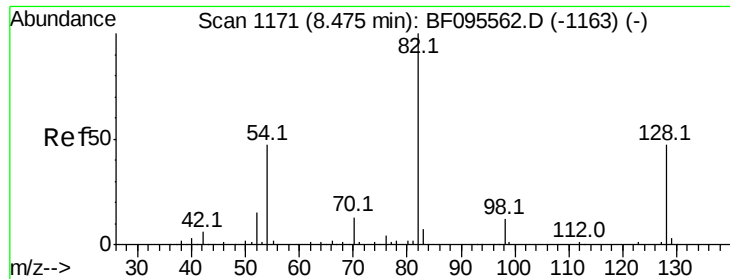
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

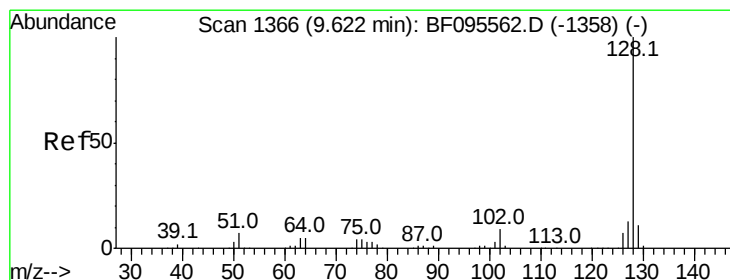
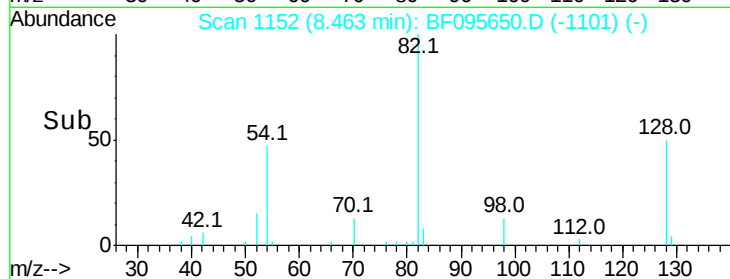
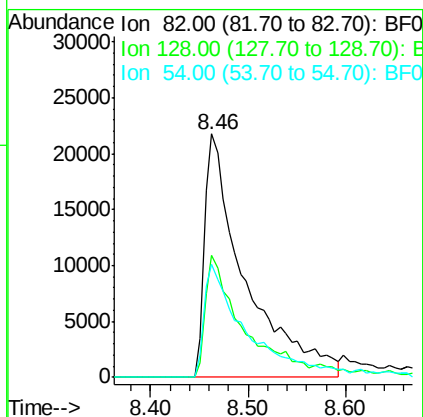
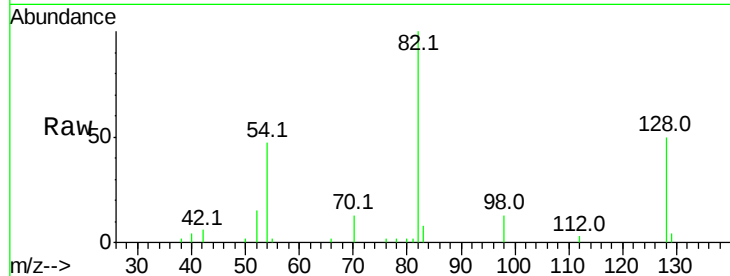




#23
Nitrobenzene-d5
Concen: 11.84 ng
RT: 8.46 min Scan# 1152
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

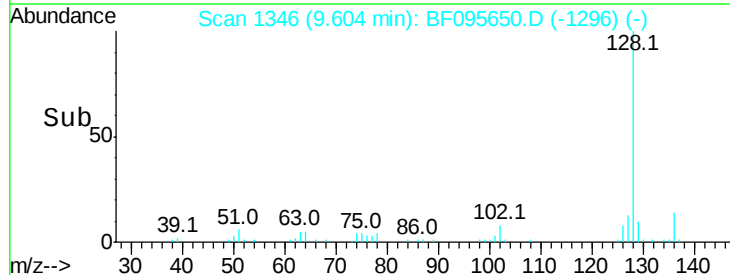
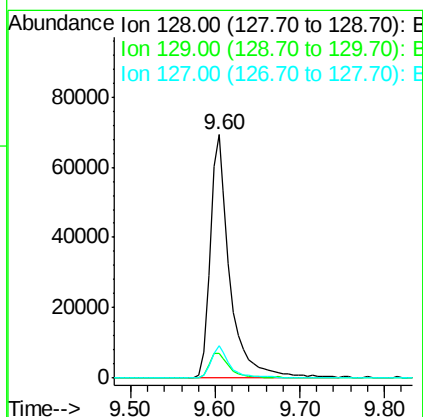
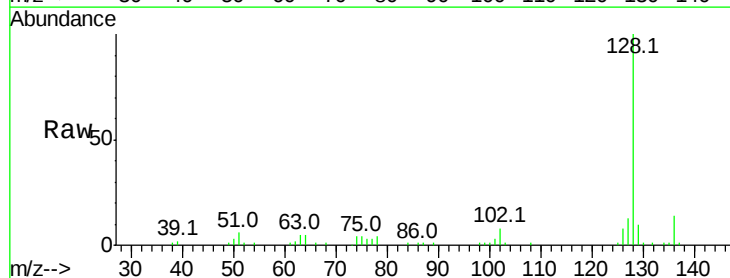
Instrument :
BNA_F
ClientSampled :

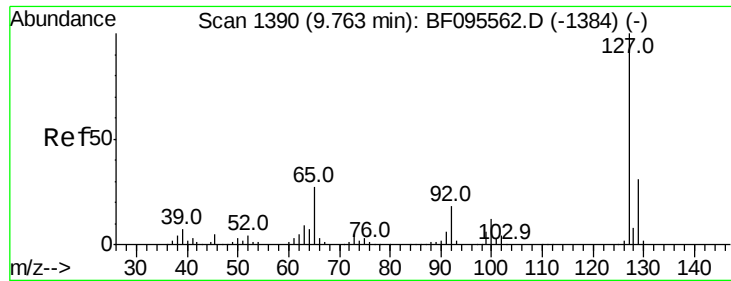
Tot Ion: 82 Resp: 62545
Ion Ratio Lower Upper
82 100
128 50.0 34.0 51.0
54 46.7 42.2 63.2



#31
Naphthalene
Concen: 6.74 ng
RT: 9.60 min Scan# 1346
Delta R.T. -0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:128 Resp: 112891
Ion Ratio Lower Upper
128 100
129 10.0 9.0 13.6
127 13.3 10.8 16.2

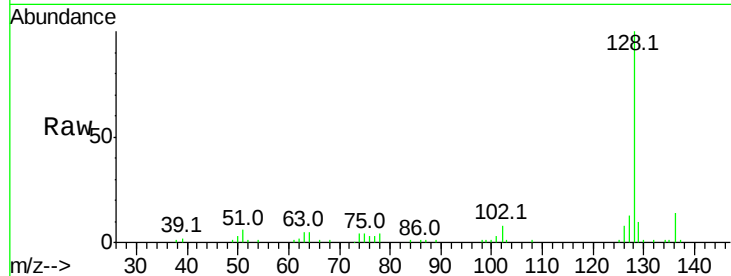




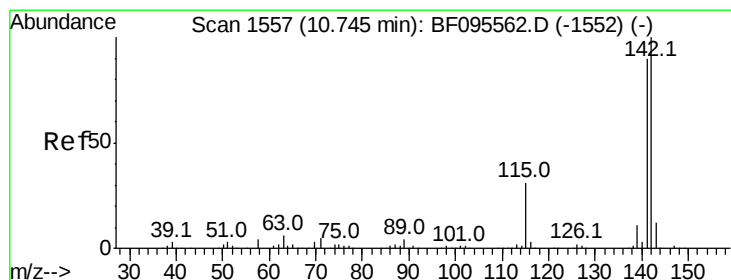
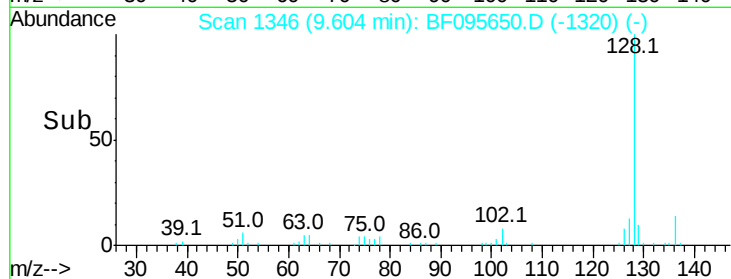
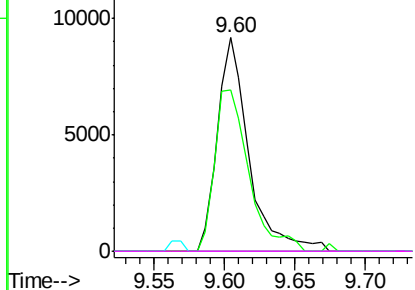
#33
4-Chloroaniline
Concen: 2.28 ng
RT: 9.60 min Scan# 1346
Delta R.T. -0.15 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:127 Resp: 14234
Ion Ratio Lower Upper
127 100
129 75.7 26.2 39.2#
65 0.0 27.8 41.8#
92 0.0 16.8 25.2#

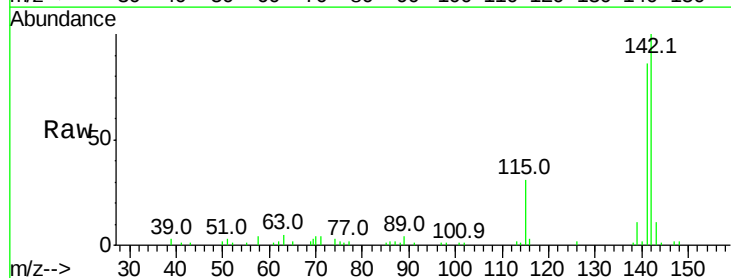


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0

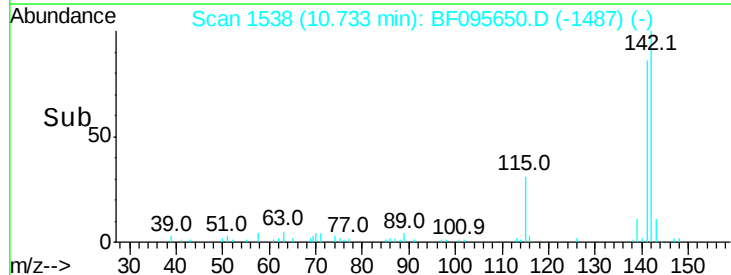
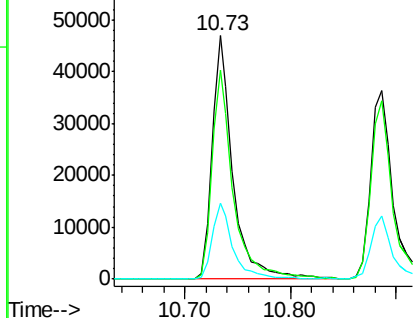


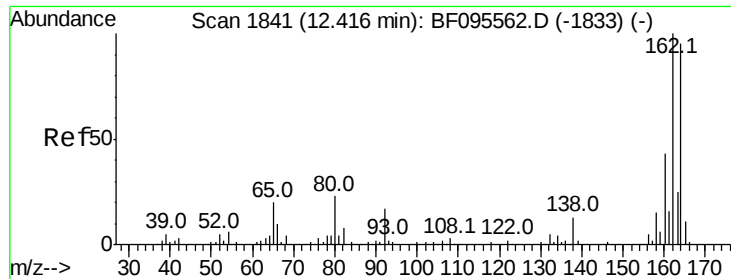
#37
2-Methylnaphthalene
Concen: 5.89 ng
RT: 10.73 min Scan# 1538
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:142 Resp: 64726
Ion Ratio Lower Upper
142 100
141 85.8 71.3 106.9
115 31.2 27.1 40.7



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

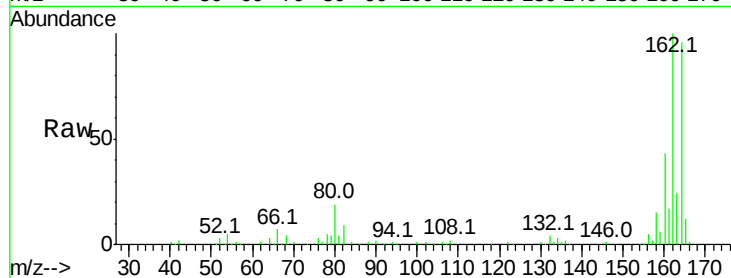




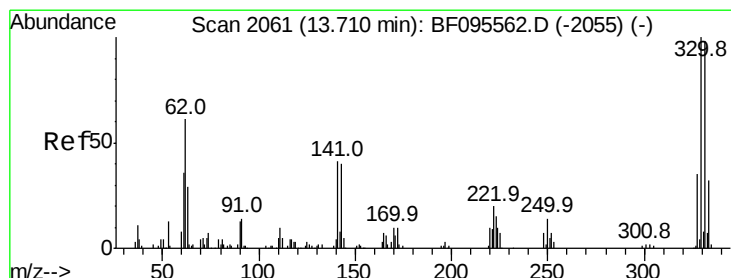
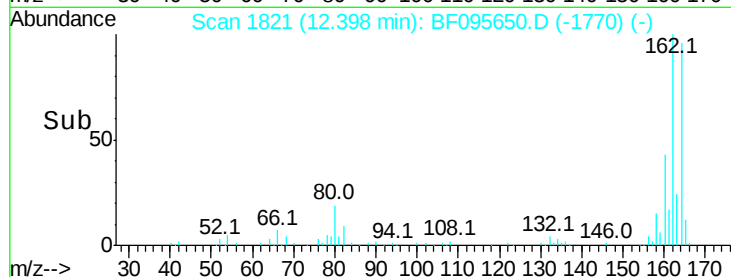
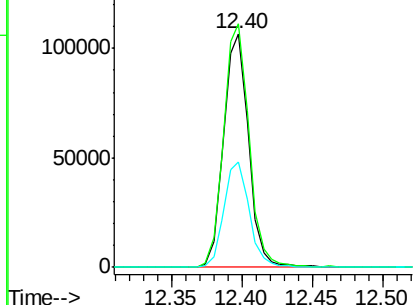
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.40 min Scan# 1821
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 131276
Ion Ratio Lower Upper
164 100
162 104.3 82.6 123.8
160 45.0 36.2 54.2

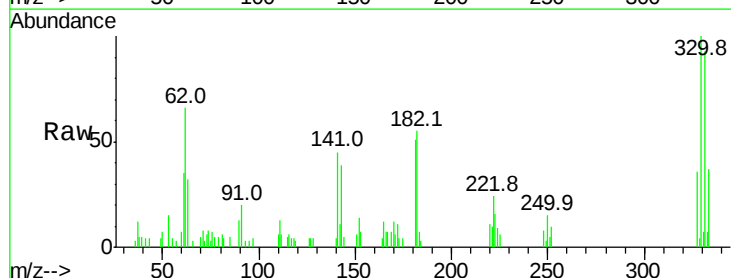


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

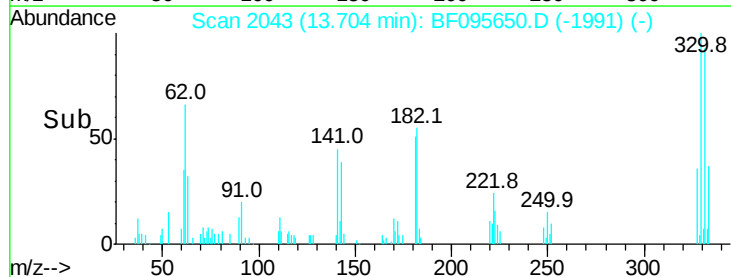
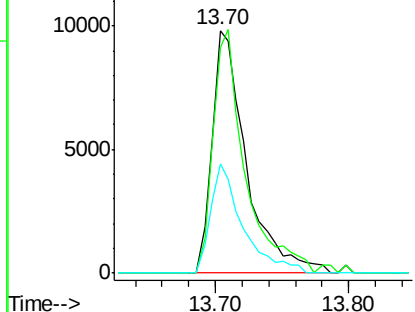


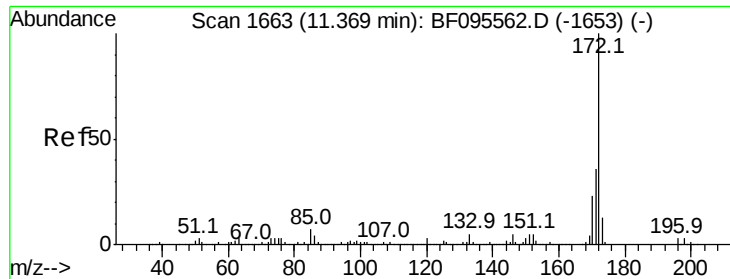
#41
2,4,6-Tribromophenol
Concen: 16.42 ng
RT: 13.70 min Scan# 2043
Delta R.T. 0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:330 Resp: 17652
Ion Ratio Lower Upper
330 100
332 94.1 76.6 115.0
141 42.2 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

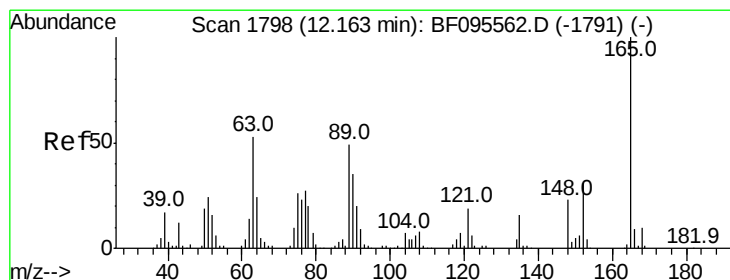
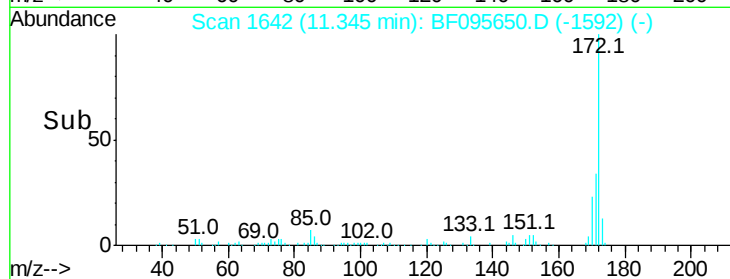
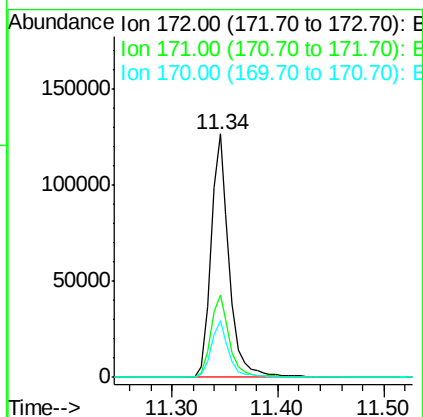
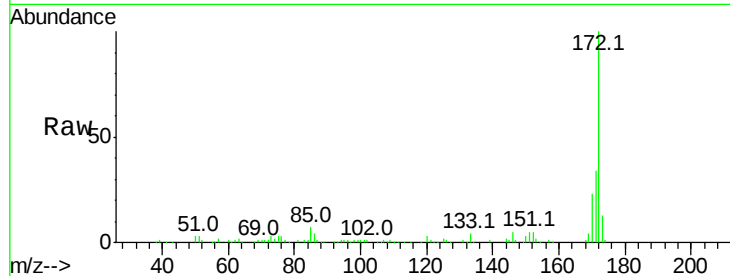




#44
2-Fluorobiphenyl
Concen: 16.69 ng
RT: 11.34 min Scan# 1642
Delta R.T. -0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

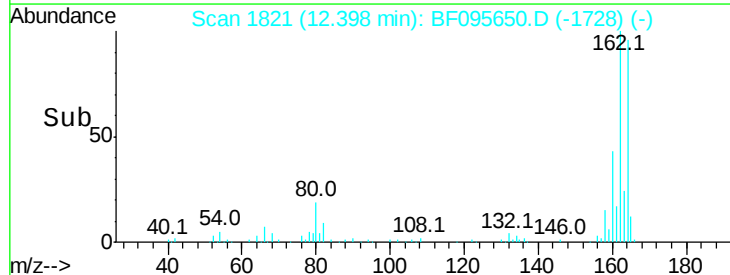
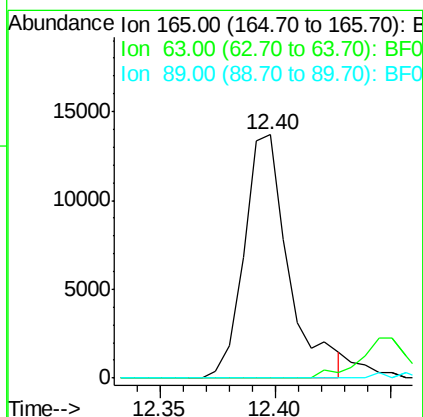
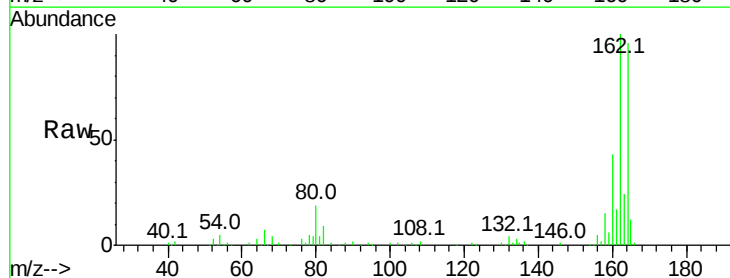
Instrument :
BNA_F
ClientSampleId :

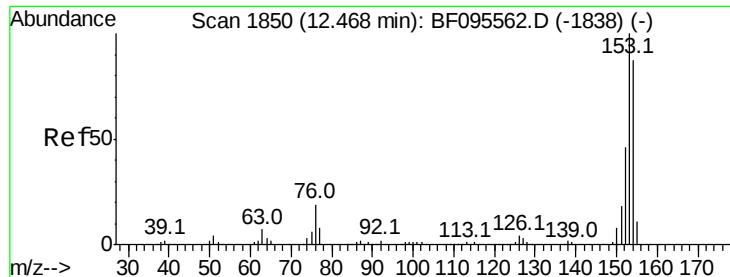
Tot Ion:172 Resp: 152206
Ion Ratio Lower Upper
172 100
171 33.9 29.6 44.4
170 23.0 19.8 29.8



#50
2,6-Dinitrotoluene
Concen: 8.39 ng
RT: 12.40 min Scan# 1821
Delta R.T. 0.25 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:165 Resp: 18454
Ion Ratio Lower Upper
165 100
63 0.0 34.3 51.5#
89 0.0 37.1 55.7#





#51

Acenaphthene

Concen: 4.83 ng

RT: 12.45 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

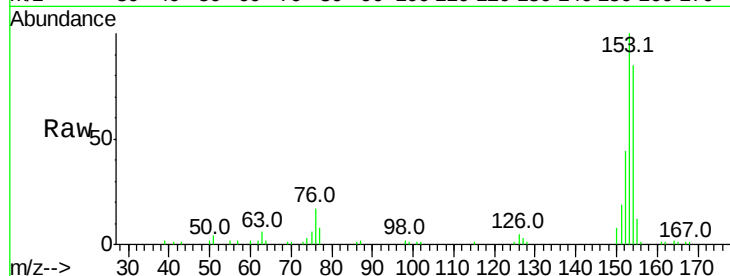
Tot Ion:154 Resp: 40319

Ion Ratio Lower Upper

154 100

153 117.4 90.5 135.7

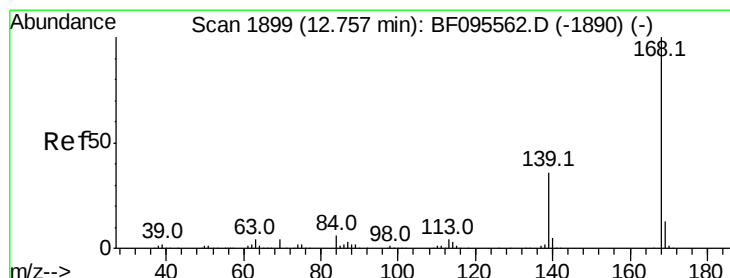
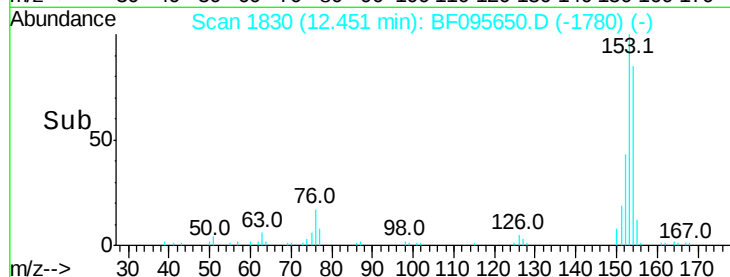
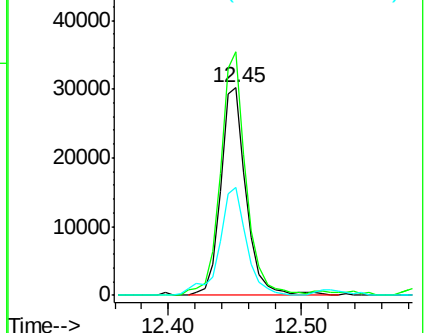
152 52.0 43.6 65.4



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: 4.04 ng

RT: 12.74 min Scan# 1880

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

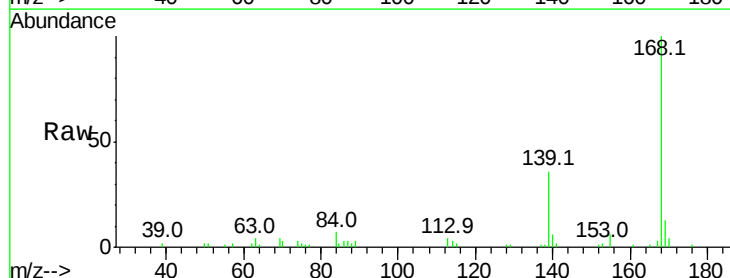
Tgt Ion:168 Resp: 46688

Ion Ratio Lower Upper

168 100

139 35.8 30.6 45.8

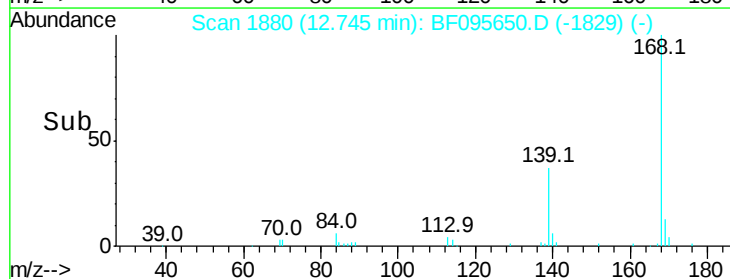
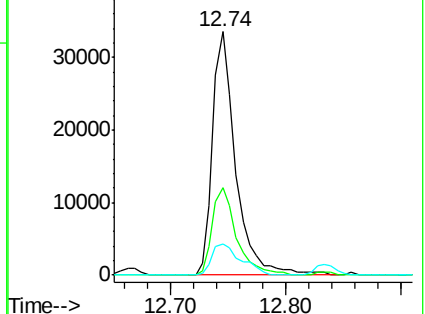
169 12.8 10.8 16.2

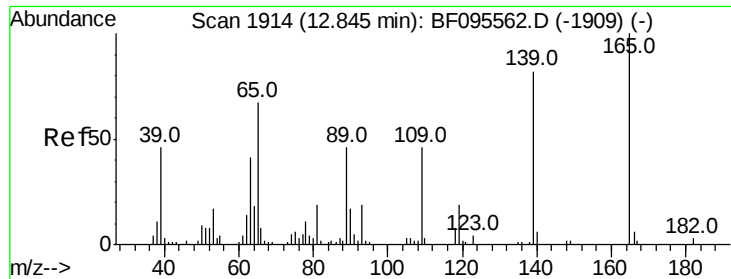


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

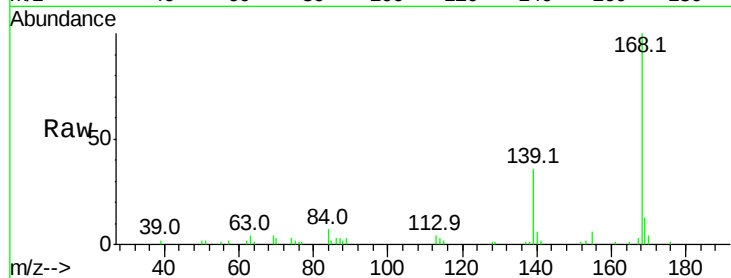




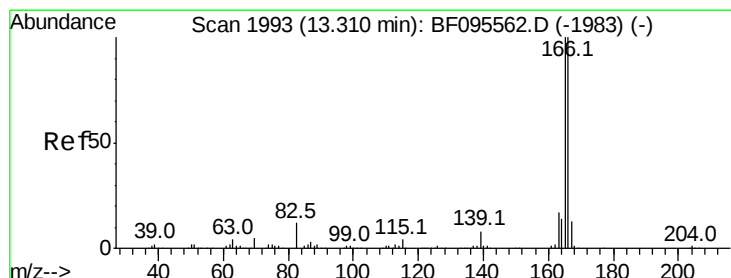
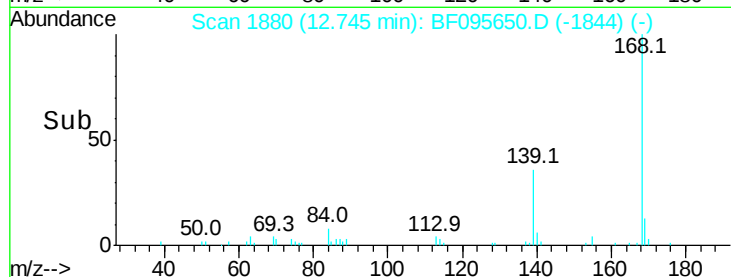
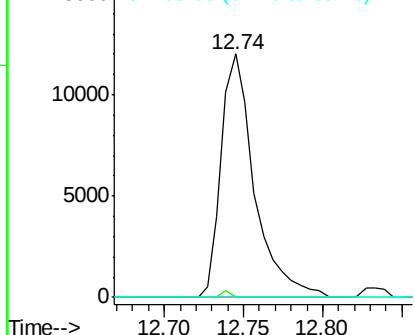
#55
4-Nitrophenol
Concen: 12.36 ng
RT: 12.74 min Scan# 1880
Delta R.T. -0.09 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 17521
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

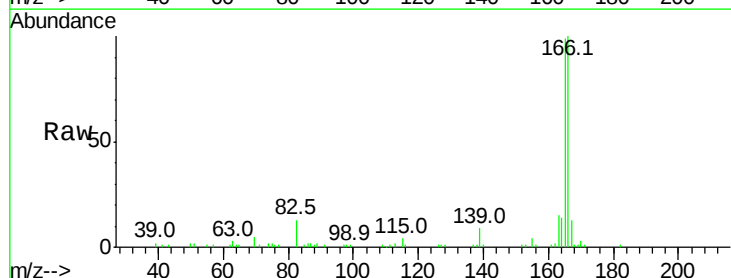


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

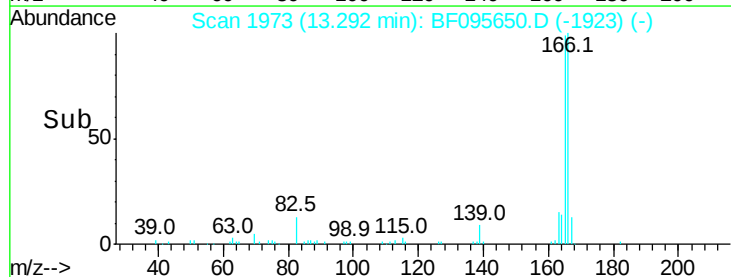
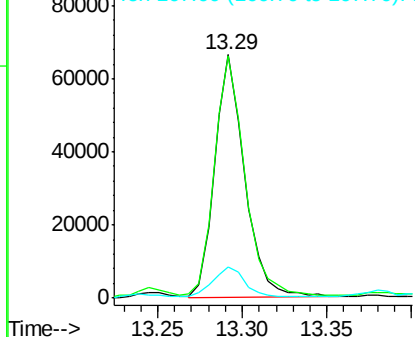


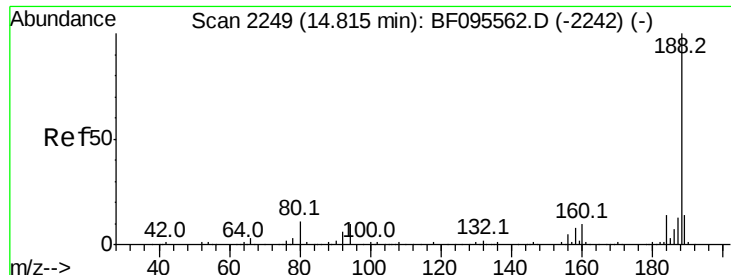
#57
Fluorene
Concen: 8.17 ng
RT: 13.29 min Scan# 1973
Delta R.T. -0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:166 Resp: 82086
Ion Ratio Lower Upper
166 100
165 99.3 78.8 118.2
167 12.8 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

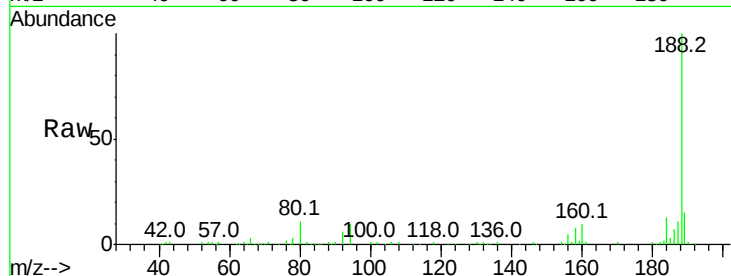




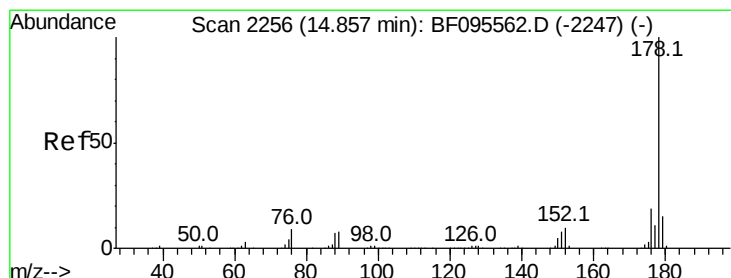
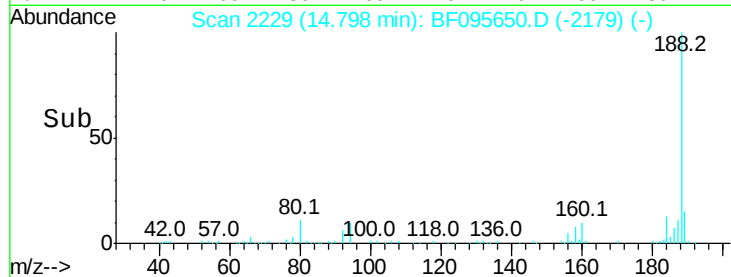
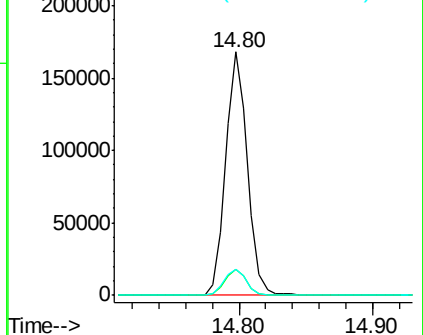
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.80 min Scan# 2229
 Delta R.T. -0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 193056
 Ion Ratio Lower Upper
 188 100
 94 10.4 9.4 14.2
 80 10.7 10.2 15.2

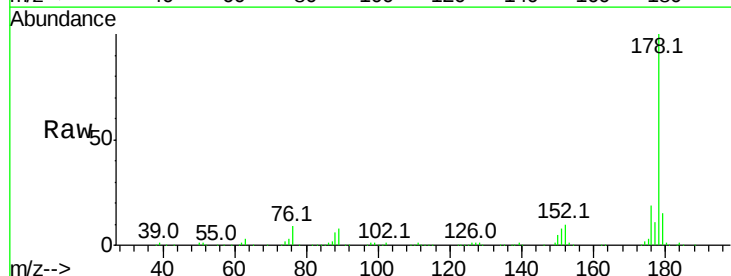


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

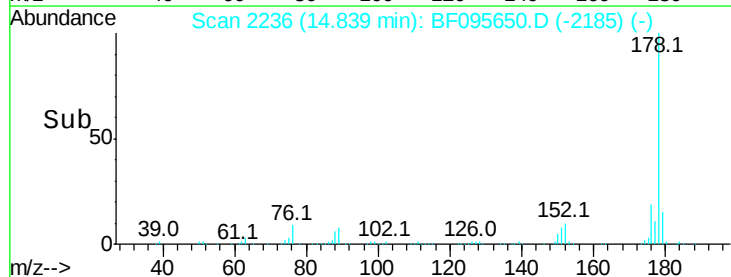
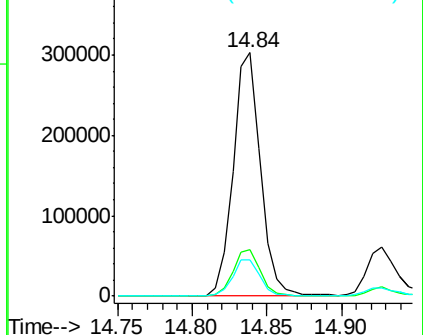


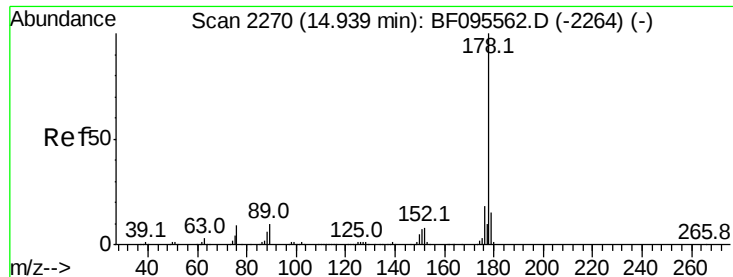
#70
 Phenanthrene
 Concen: 35.03 ng
 RT: 14.84 min Scan# 2236
 Delta R.T. -0.00 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Tgt Ion:178 Resp: 388541
 Ion Ratio Lower Upper
 178 100
 176 19.2 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

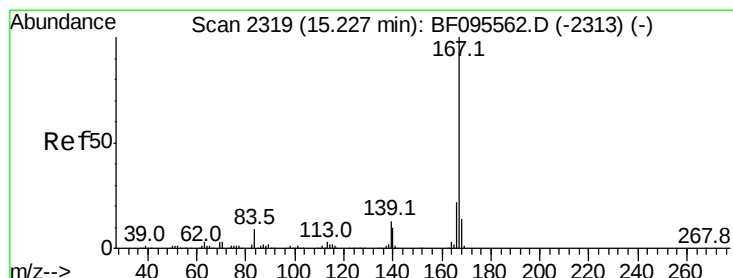
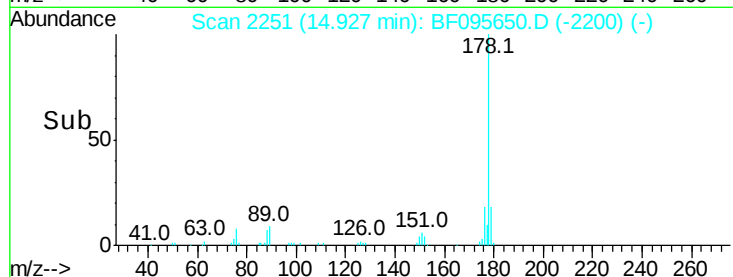
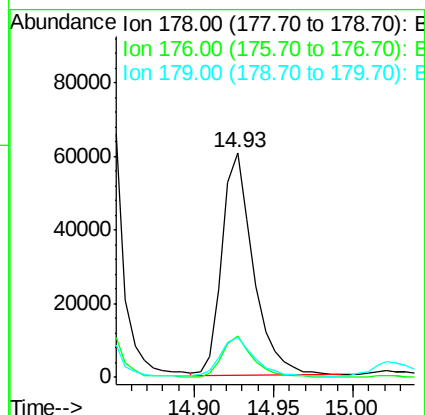
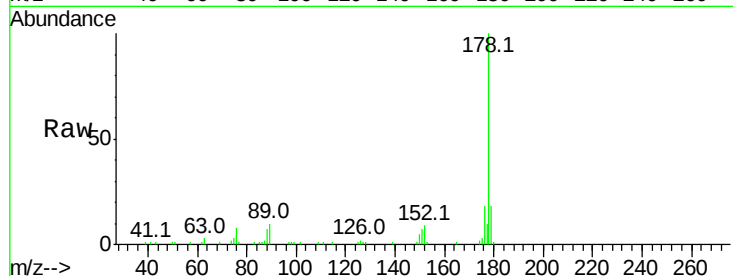




#71
 Anthracene
 Concen: 7.35 ng
 RT: 14.93 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

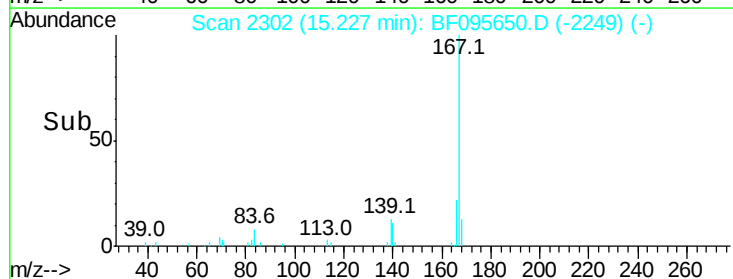
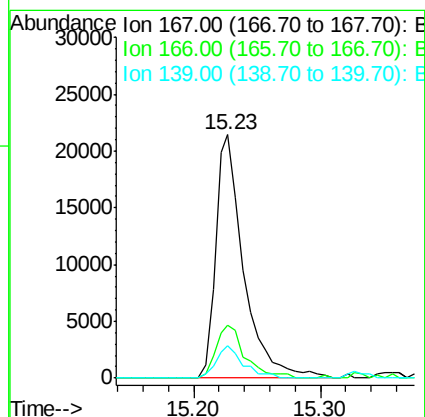
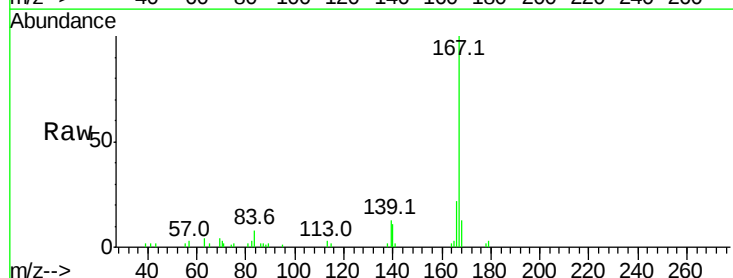
Instrument :
 BNA_F
 ClientSampleId :

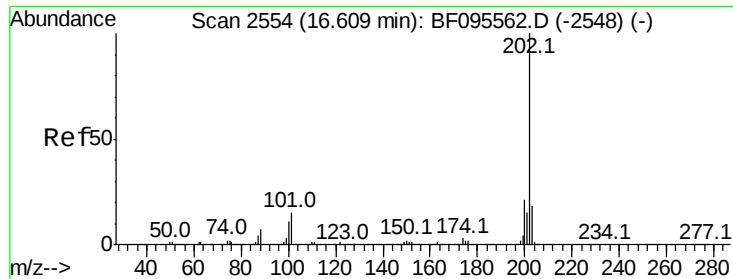
Tot Ion:178 Resp: 83235
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.8 23.8
 179 17.8 12.7 19.1



#72
 Carbazole
 Concen: 3.20 ng
 RT: 15.23 min Scan# 2302
 Delta R.T. 0.01 min
 Lab File: BF095650.D
 Acq: 2 Jun 2017 23:50

Tgt Ion:167 Resp: 32989
 Ion Ratio Lower Upper
 167 100
 166 22.0 18.1 27.1
 139 13.1 11.7 17.5





#74

Fluoranthene

Concen: 20.01 ng

RT: 16.60 min Scan# 2536

Delta R.T. -0.00 min

Lab File: BF095650.D

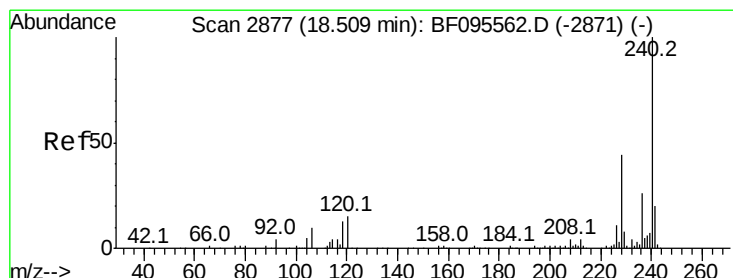
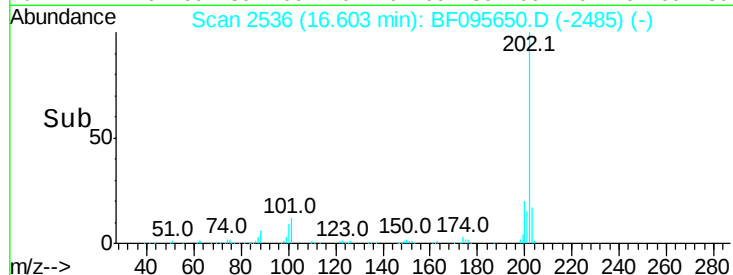
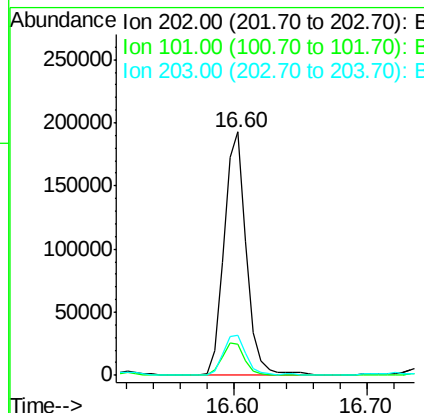
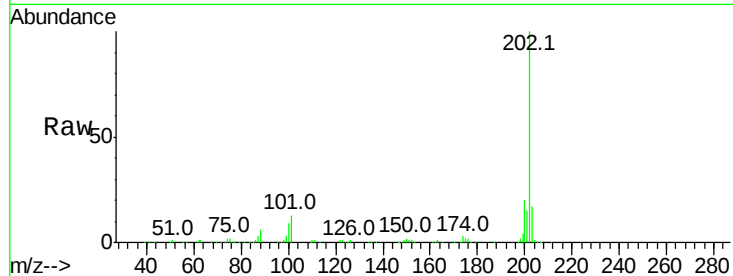
Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	227657
Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	16.7	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

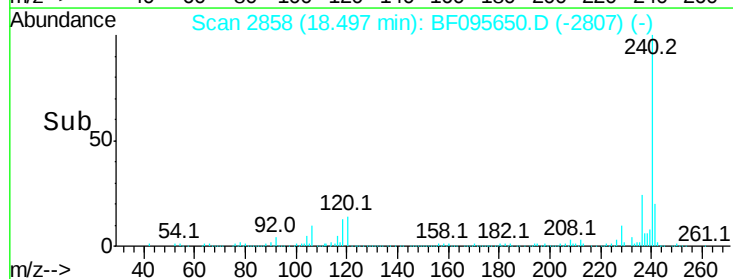
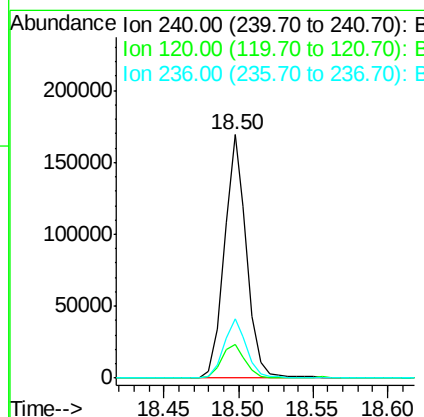
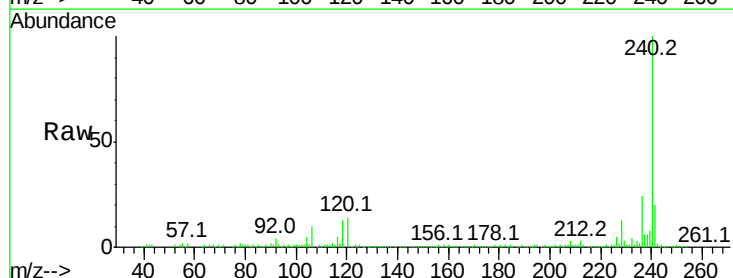
RT: 18.50 min Scan# 2858

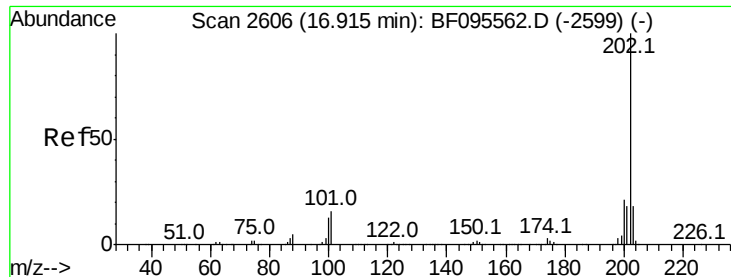
Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion:	240	Resp:	177087
Ion	Ratio	Lower	Upper
240	100		
120	14.1	5.8	8.8#
236	24.1	20.5	30.7

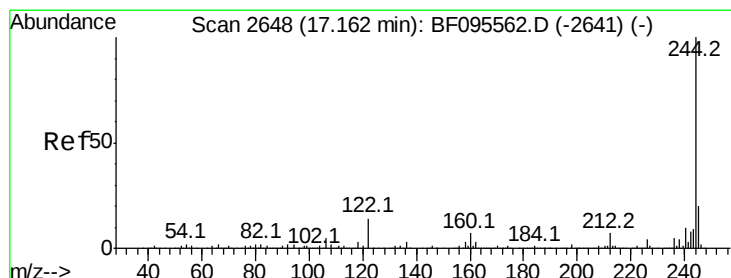
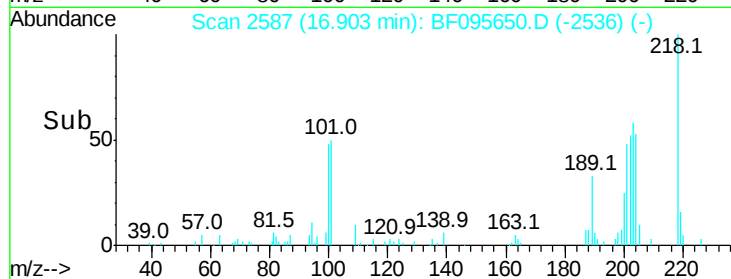
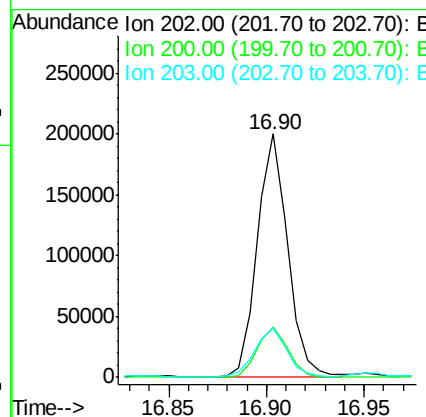
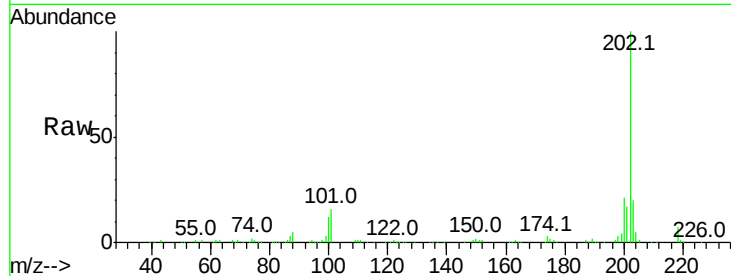




#77
Pvrene
Concen: 16.23 ng
RT: 16.90 min Scan# 2587
Delta R.T. -0.00 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

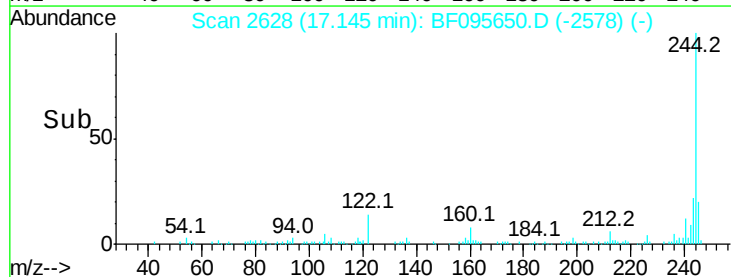
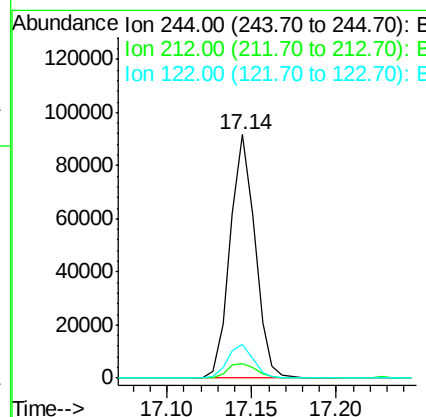
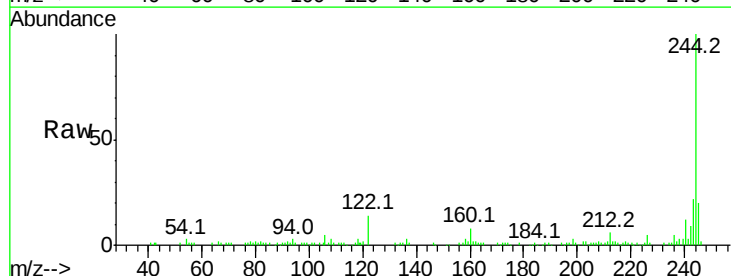
Instrument :
BNA_F
ClientSampled :

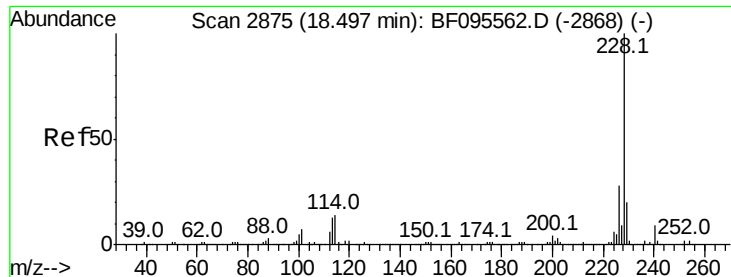
Tot Ion:202 Resp: 214987
Ion Ratio Lower Upper
202 100
200 20.6 17.6 26.4
203 20.2 14.4 21.6



#78
Terphenyl-d14
Concen: 11.68 ng
RT: 17.14 min Scan# 2628
Delta R.T. -0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:244 Resp: 93943
Ion Ratio Lower Upper
244 100
212 6.0 6.0 9.0
122 13.9 10.3 15.5





#80

Benzo(a)anthracene

Concen: 6.46 ng

RT: 18.49 min Scan# 2856

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

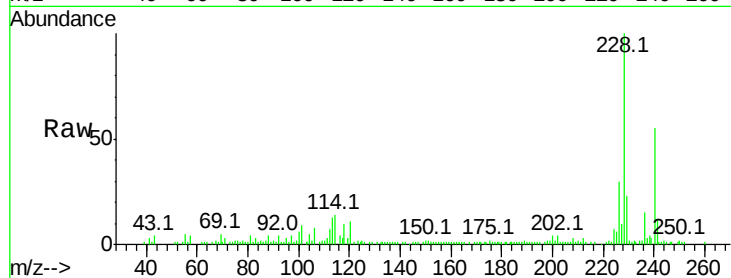
Tot Ion:228 Resp: 66559

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

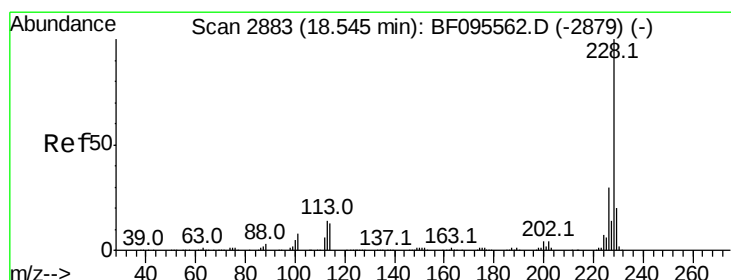
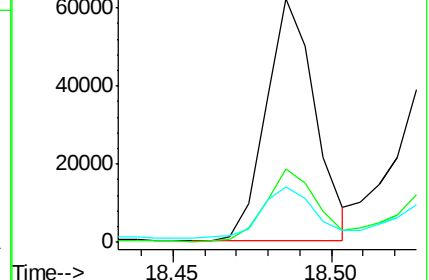
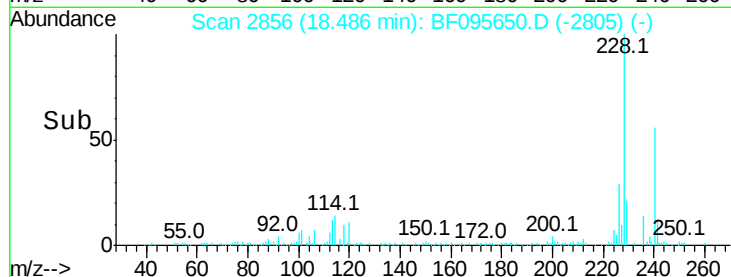
229 22.7 16.3 24.5



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: 6.46 ng

RT: 18.53 min Scan# 2864

Delta R.T. -0.00 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

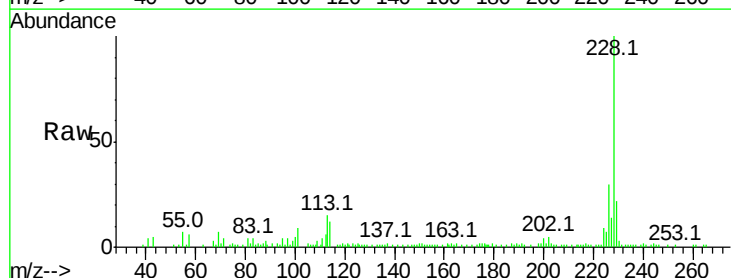
Tgt Ion:228 Resp: 64420

Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

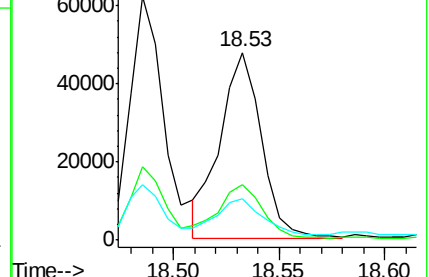
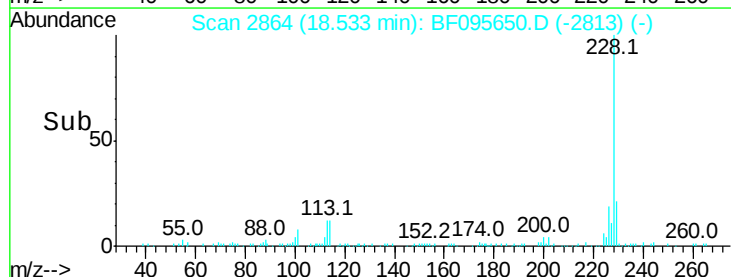
229 22.2 15.8 23.6

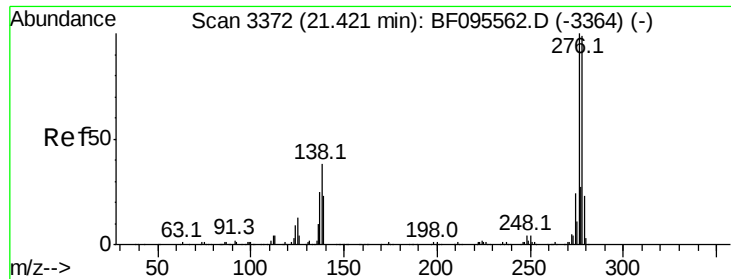


Abundance Ion 228.00 (227.70 to 228.70): E

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: 2.05 ng

RT: 21.44 min Scan# 3358

Delta R.T. 0.03 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

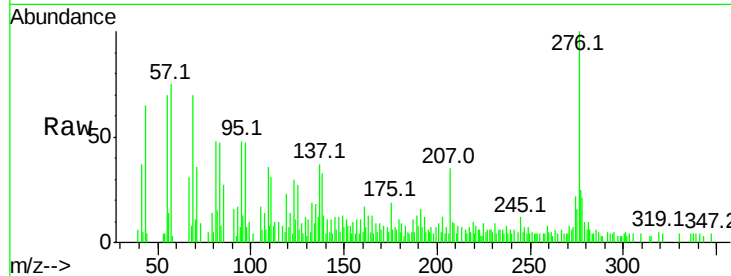
Tot Ion:276 Resp: 16602

Ion Ratio Lower Upper

276 100

138 30.4 27.8 41.6

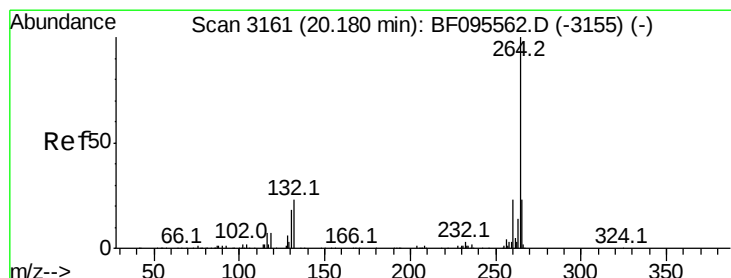
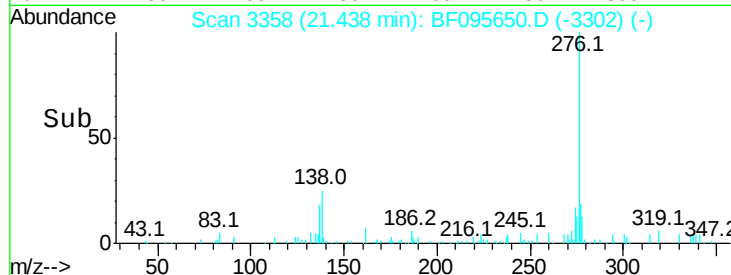
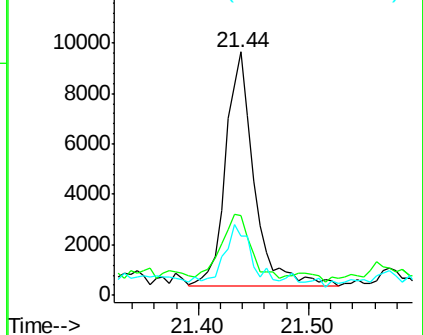
277 23.2 20.2 30.4



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

Perylene-d12

Concen: 20.00 ng

RT: 20.17 min Scan# 3143

Delta R.T. 0.01 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

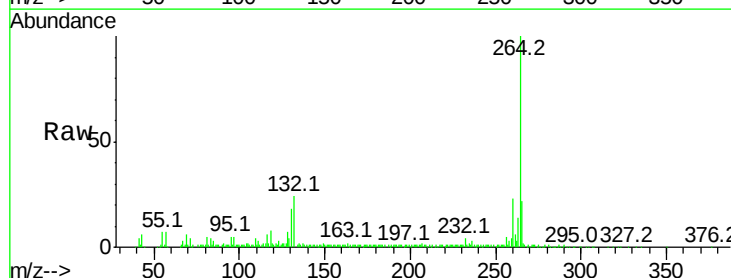
Tgt Ion:264 Resp: 128706

Ion Ratio Lower Upper

264 100

260 23.2 19.5 29.3

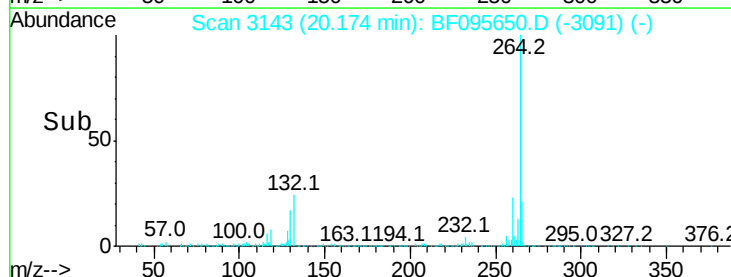
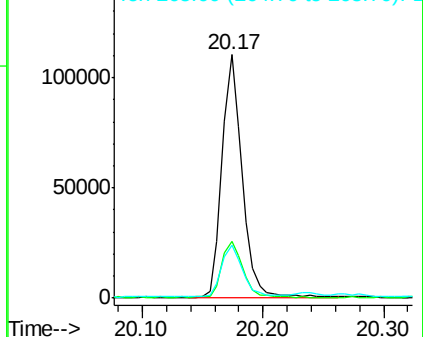
265 21.7 17.2 25.8

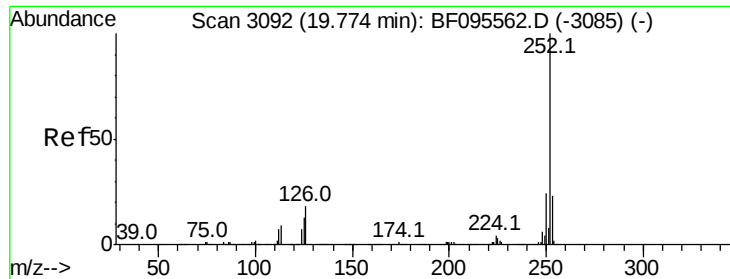


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 7.97 ng

RT: 19.77 min Scan# 3075

Delta R.T. 0.01 min

Lab File: BF095650.D

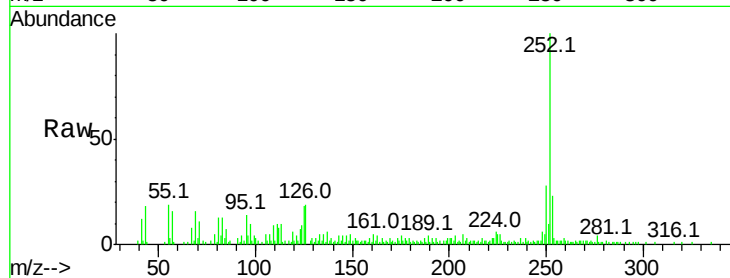
Acq: 2 Jun 2017 23:50

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	252	Resp:	63353
Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.1	27.1
125	18.4	9.8	14.8#

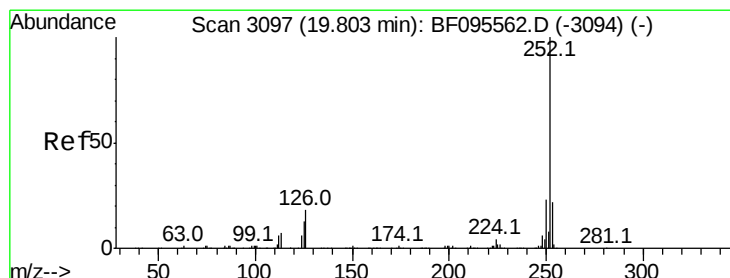
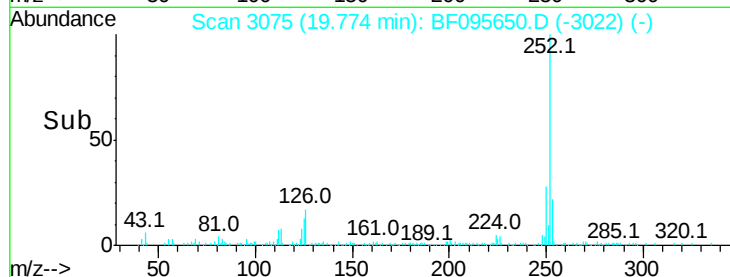
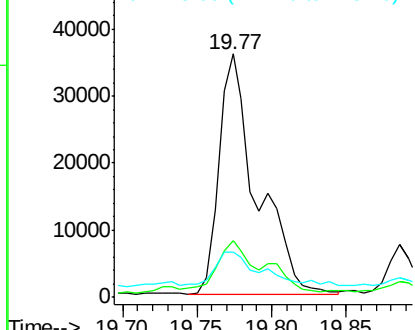


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 8.26 ng

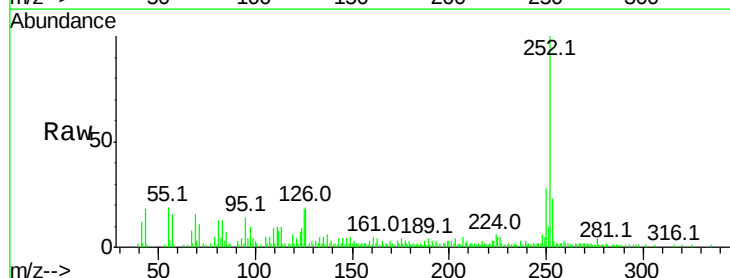
RT: 19.77 min Scan# 3075

Delta R.T. -0.02 min

Lab File: BF095650.D

Acq: 2 Jun 2017 23:50

Tgt Ion:	252	Resp:	63353
Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.4	27.6
125	18.4	13.1	19.7

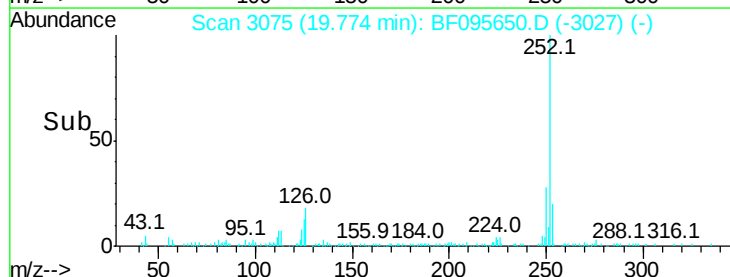
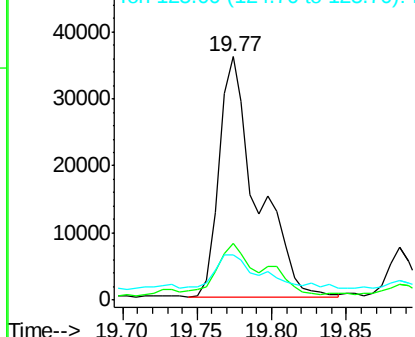


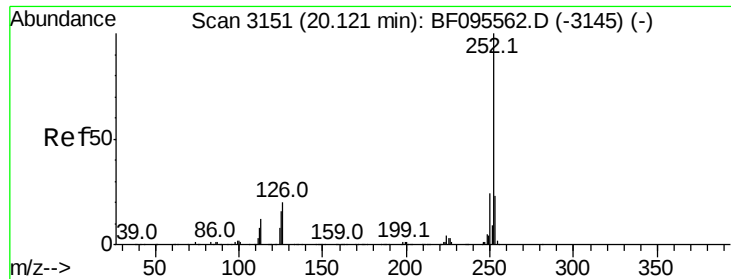
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

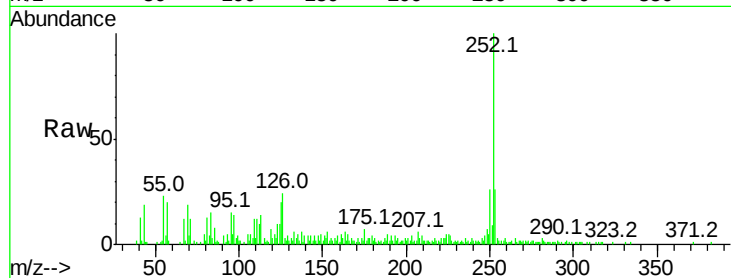




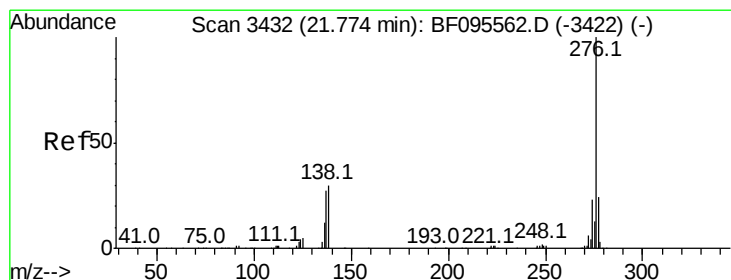
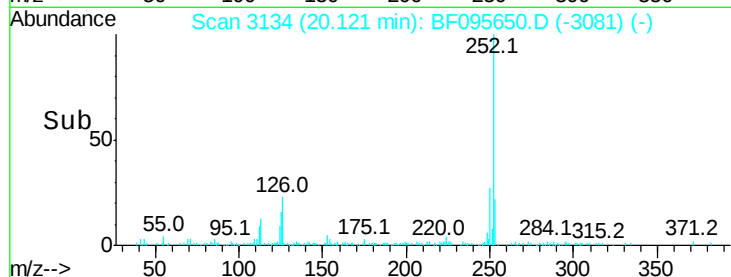
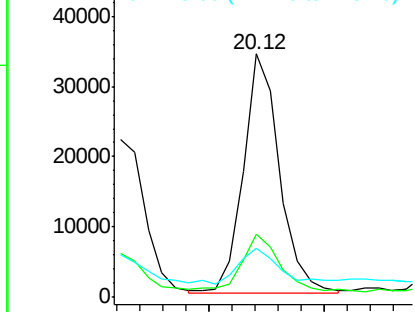
#89
Benzo(a)pyrene
Concen: 5.06 ng
RT: 20.12 min Scan# 3134
Delta R.T. 0.01 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 37112
Ion Ratio Lower Upper
252 100
253 26.0 17.5 26.3
125 20.2 11.0 16.4#

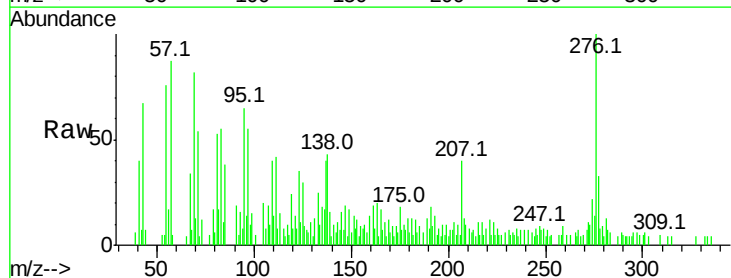


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 2.55 ng
RT: 21.80 min Scan# 3419
Delta R.T. 0.04 min
Lab File: BF095650.D
Acq: 2 Jun 2017 23:50

Tgt Ion:276 Resp: 15146
Ion Ratio Lower Upper
276 100
277 33.1 18.6 28.0#
138 43.2 25.4 38.0#



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

