

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052217\
 Data File : BF095346.D
 Acq On : 23 May 2017 10:24
 Operator : SJ/MA
 Sample : I3231-01 5X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 23 11:34:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	70089	20.00	ng	0.00
21) Naphthalene-d8	9.78	136	315900	20.00	ng	0.00
38) Acenaphthene-d10	12.61	164	135903	20.00	ng	-0.01
63) Phenanthrene-d10	15.01	188	190315	20.00	ng	-0.01
75) Chrysene-d12	18.68	240	193230	20.00	ng	-0.01
86) Perylene-d12	20.36	264	141536	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	7.52	99	4265	0.85	ng	0.21
23) Nitrobenzene-d5	8.80	82	2211	0.44	ng	0.13
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	11.57	172	30694	3.25	ng	0.01
78) Terphenyl-d14	17.33	244	19882	2.27	ng	-0.02

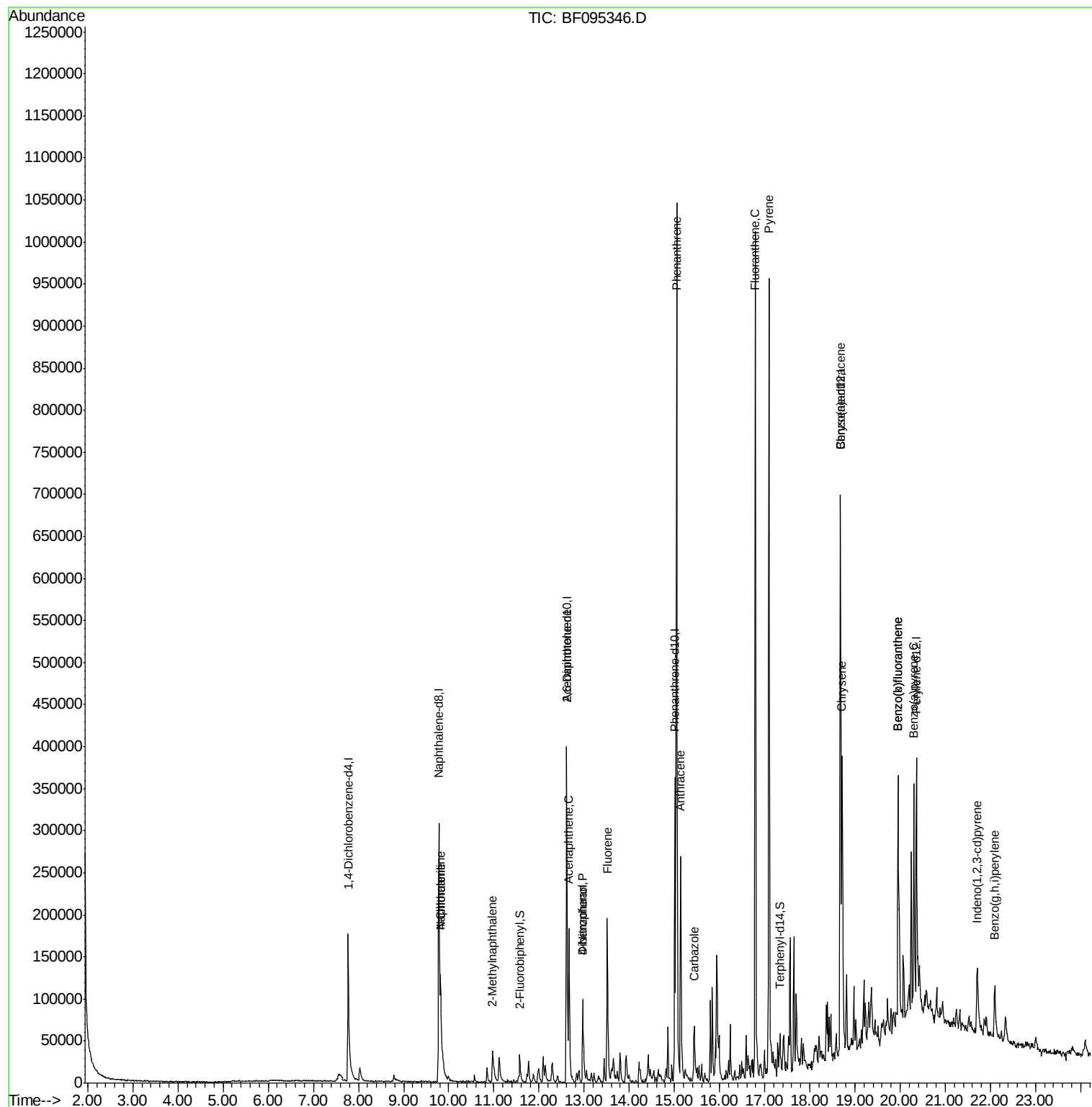
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	9.82	128	109279	6.88	ng	99
33) 4-Chloroaniline	9.82	127	14028	2.37	ng	# 35
37) 2-Methylnaphthalene	10.97	142	37046	3.56	ng	96
50) 2,6-Dinitrotoluene	12.61	165	15255	6.70	ng	# 31
51) Acenaphthene	12.67	154	73888	8.55	ng	99
54) Dibenzofuran	12.97	168	88436	7.39	ng	95
55) 4-Nitrophenol	12.97	139	31814	21.68	ng	# 25
57) Fluorene	13.51	166	111646	10.73	ng	97
70) Phenanthrene	15.05	178	645335	59.02	ng	98
71) Anthracene	15.14	178	192490	17.23	ng	96
72) Carbazole	15.44	167	57838	5.69	ng	98
74) Fluoranthene	16.79	202	567380	50.58	ng	99
77) Pvrene	17.09	202	479455	33.18	ng	96
80) Benzo(a)anthracene	18.67	228	207491	18.45	ng	96
82) Chrysene	18.71	228	206889	19.03	ng	98
85) Indeno(1,2,3-cd)pyrene	21.71	276	56510	6.40	ng	# 90
87) Benzo(b)fluoranthene	19.95	252	247702	28.32	ng	96
88) Benzo(k)fluoranthene	19.95	252	247702	29.36	ng	96
89) Benzo(a)pvrene	20.31	252	126658	15.69	ng	97
91) Benzo(a,h,i)perylene	22.09	276	57800	8.84	ng	95

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

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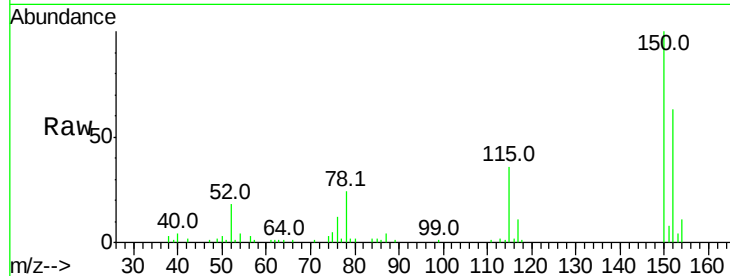


#1

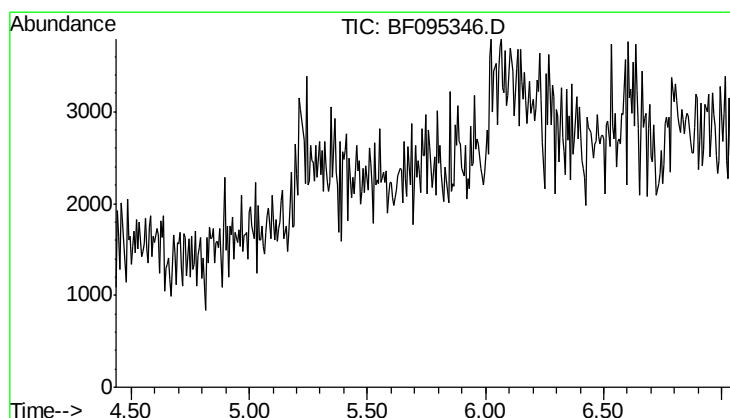
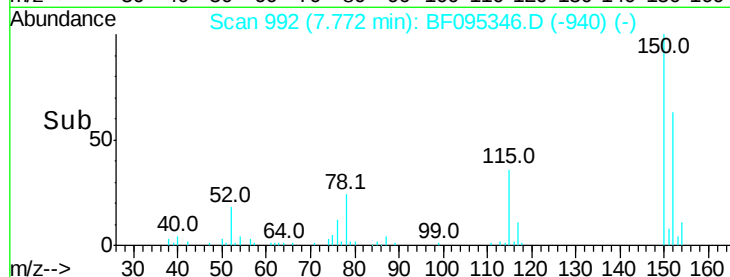
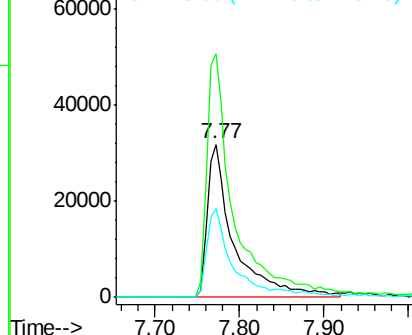
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.77 min Scan# 992
Delta R.T. 0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 70089
Ion Ratio Lower Upper
152 100
150 159.1 126.2 189.2
115 58.0 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

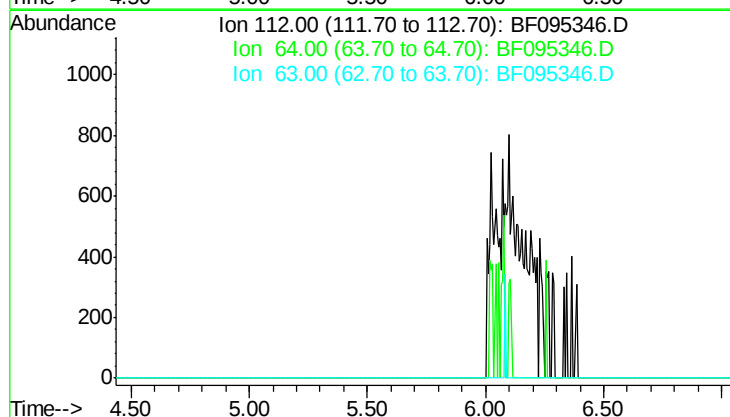


#5

2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.74 min

Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion: 112
Sig Exp Ratio
112 100
64 57.5
63 29.2





#7

Phenol-d6

Concen: 0.85 ng

RT: 7.52 min Scan# 949

Delta R.T. 0.21 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

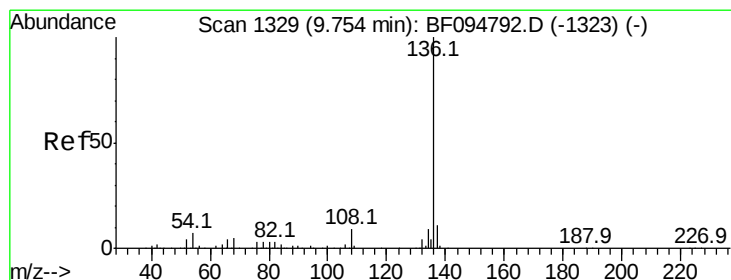
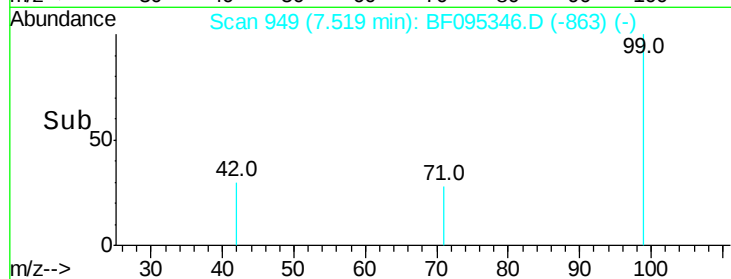
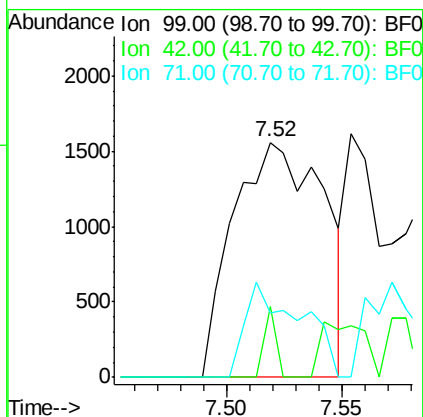
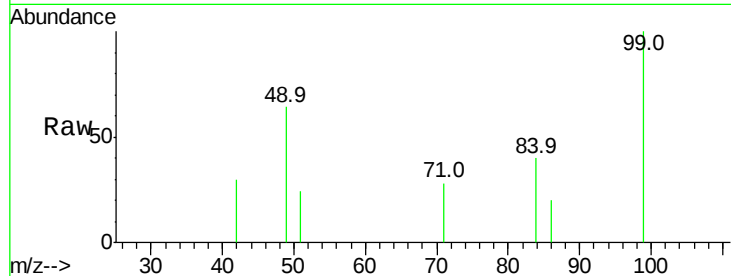
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 4265

Ion	Ratio	Lower	Upper
99	100		
42	30.4	13.5	20.3#
71	27.6	24.5	36.7



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.78 min Scan# 1333

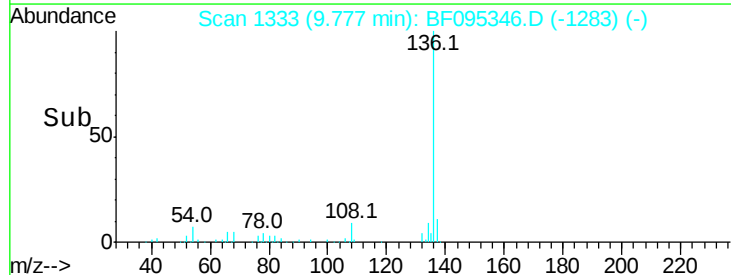
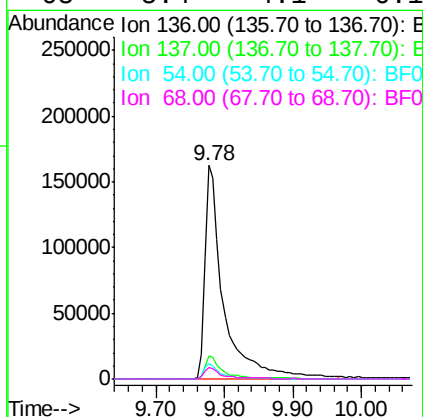
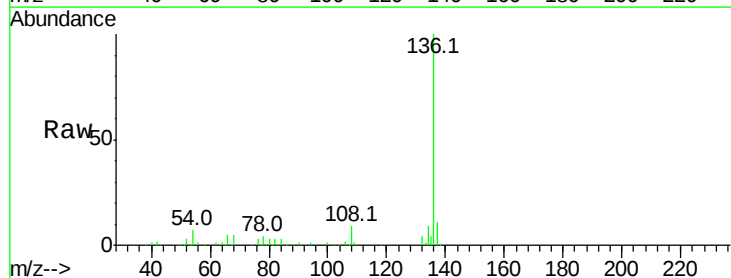
Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Tgt Ion: 136 Resp: 315900

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	7.5	4.9	7.3#
68	5.4	4.1	6.1

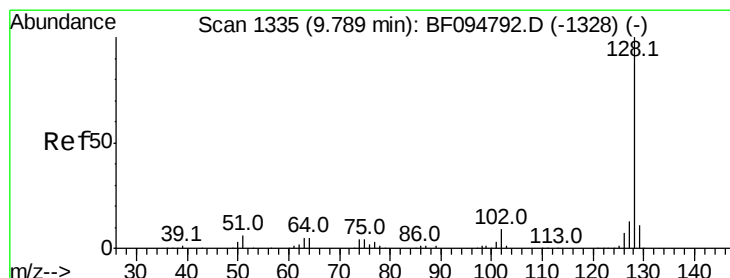
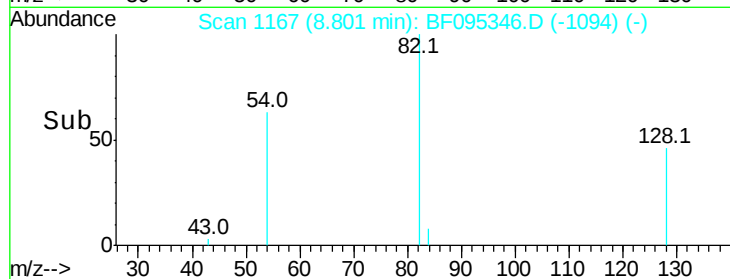
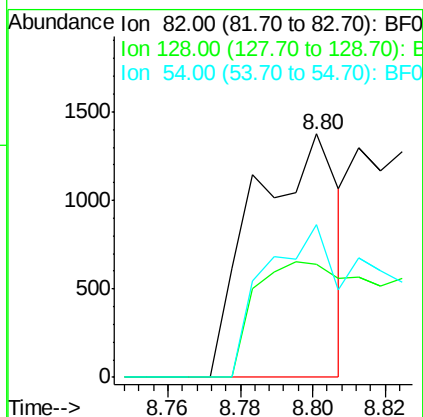
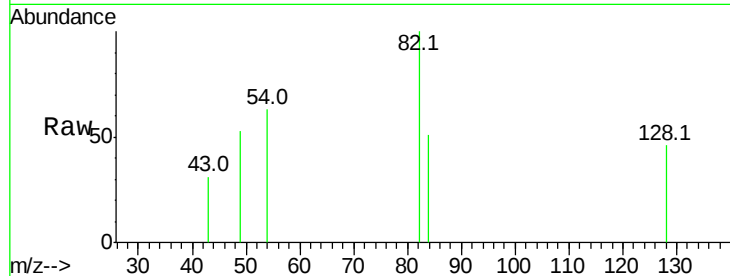




#23
 Nitrobenzene-d5
 Concen: 0.44 ng
 RT: 8.80 min Scan# 1167
 Delta R.T. 0.13 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

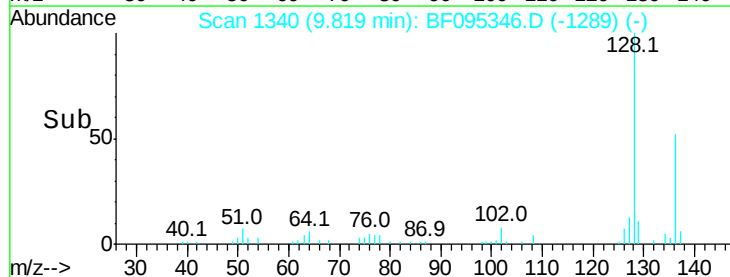
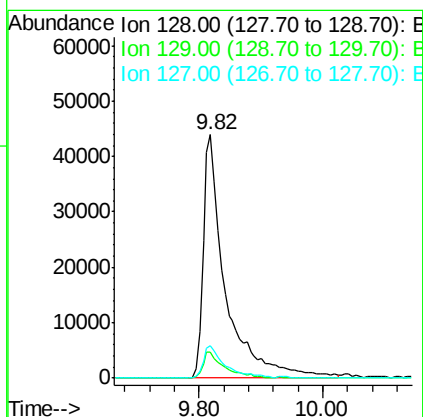
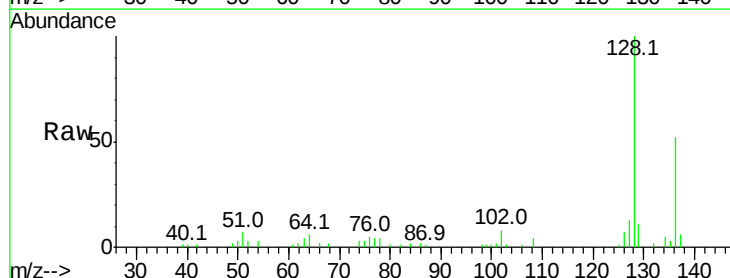
Instrument :
 BNA_F
 ClientSampled :

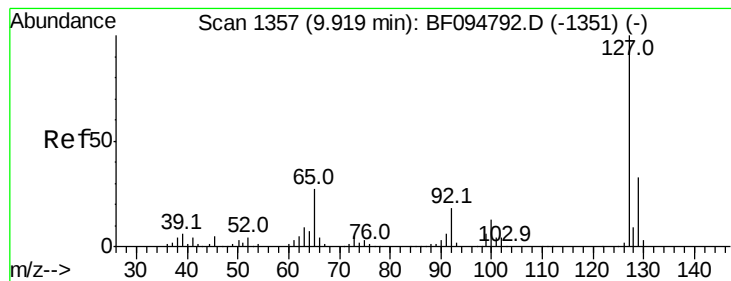
Tot Ion: 82 Resp: 2211
 Ion Ratio Lower Upper
 82 100
 128 46.3 34.0 51.0
 54 63.0 42.2 63.2



#31
 Naphthalene
 Concen: 6.88 ng
 RT: 9.82 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion: 128 Resp: 109279
 Ion Ratio Lower Upper
 128 100
 129 10.6 9.0 13.6
 127 13.3 10.8 16.2





#33

4-Chloroaniline

Concen: 2.37 ng

RT: 9.82 min Scan# 1340

Delta R.T. -0.14 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

Tot Ion:127 Resp: 14028

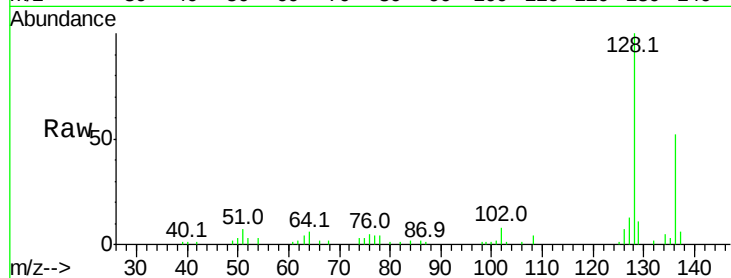
Ion Ratio Lower Upper

127 100

129 80.1 26.2 39.2#

65 0.0 27.8 41.8#

92 0.0 16.8 25.2#

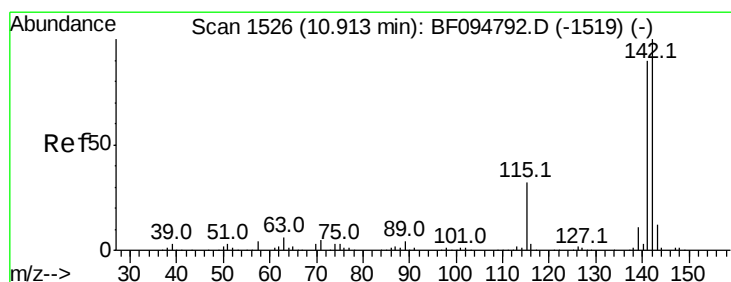
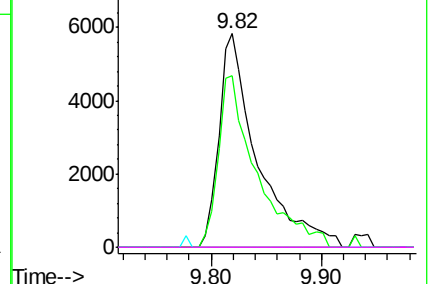
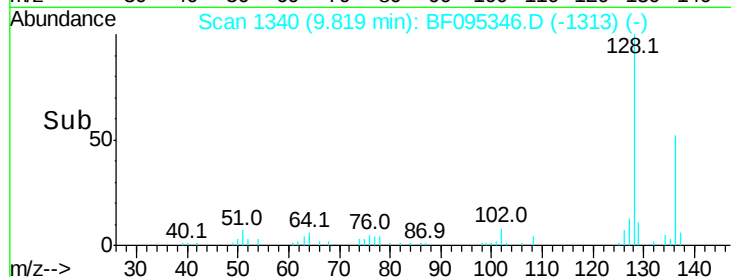


Abundance Ion 127.00 (126.70 to 127.70): E

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: 3.56 ng

RT: 10.97 min Scan# 1536

Delta R.T. 0.03 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

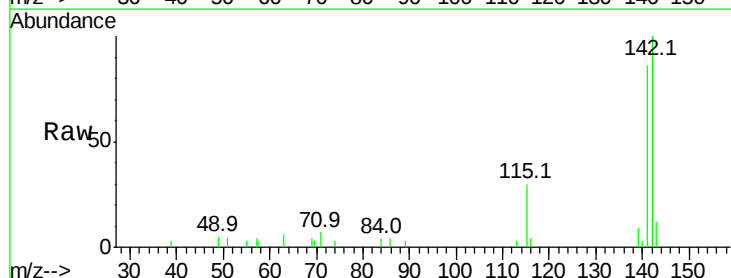
Tgt Ion:142 Resp: 37046

Ion Ratio Lower Upper

142 100

141 86.2 71.3 106.9

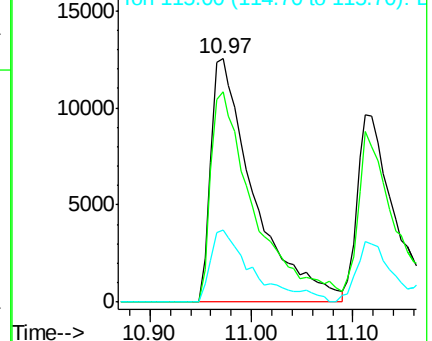
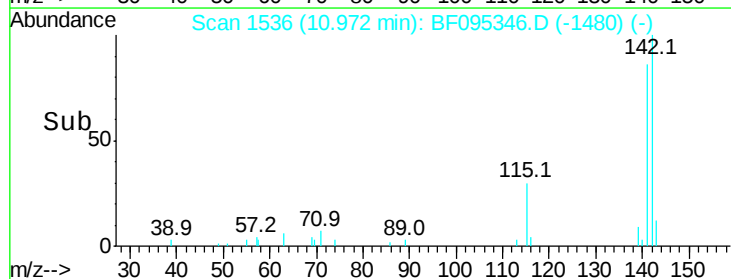
115 29.6 27.1 40.7

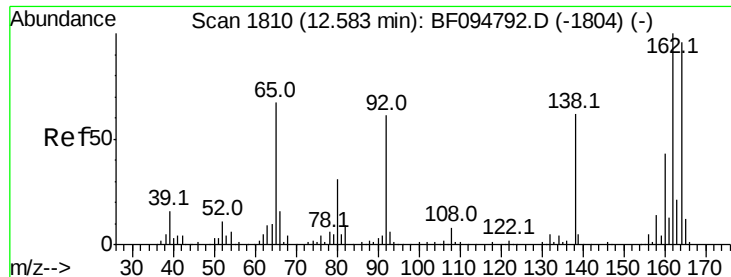


Abundance Ion 142.00 (141.70 to 142.70): E

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: 12.61 min Scan# 1814

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

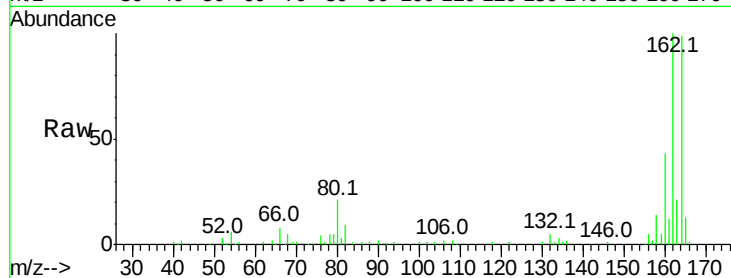
Tot Ion:164 Resp: 135903

Ion Ratio Lower Upper

164 100

162 100.7 82.6 123.8

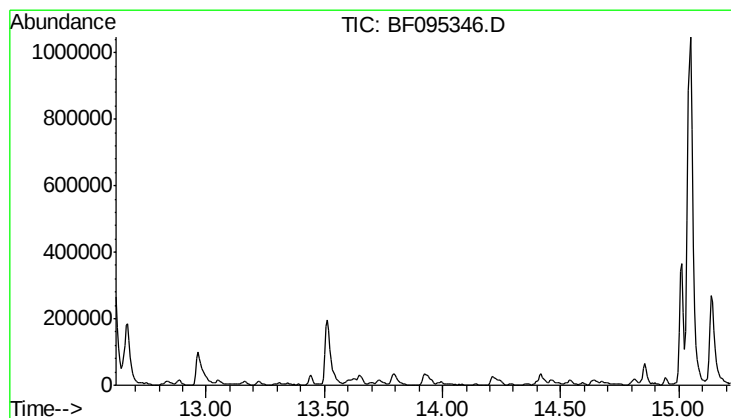
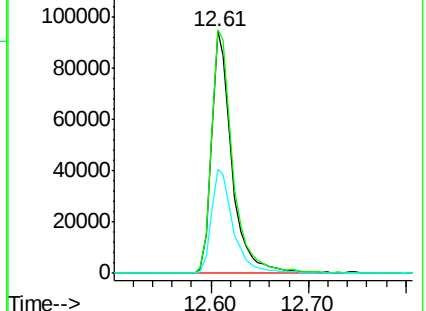
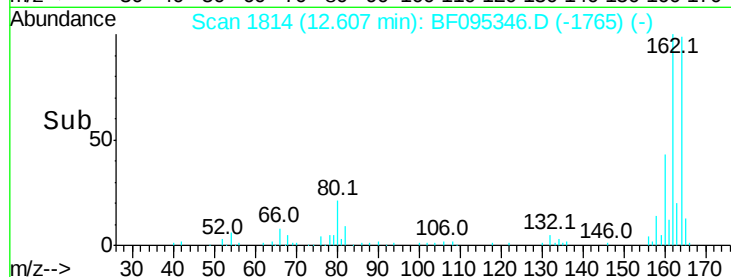
160 43.2 36.2 54.2



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: 0.00 ng

Expected RT: 13.92 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

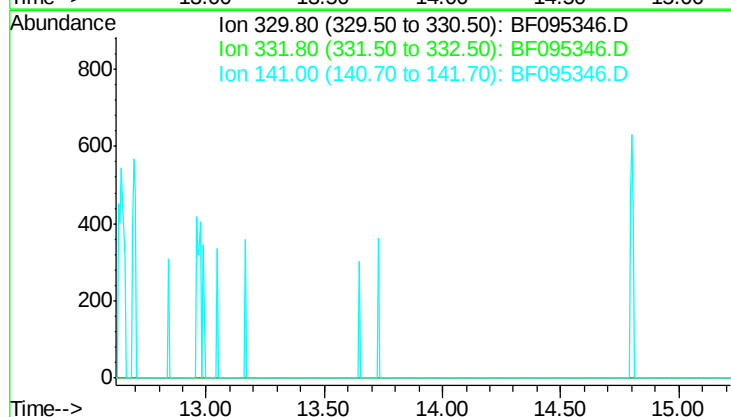
Tgt Ion: 330

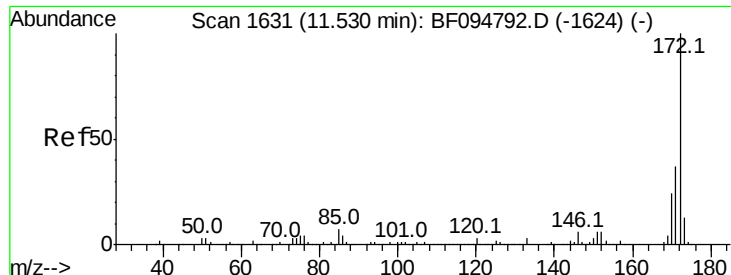
Sig Exp Ratio

330 100

332 95.8

141 39.3

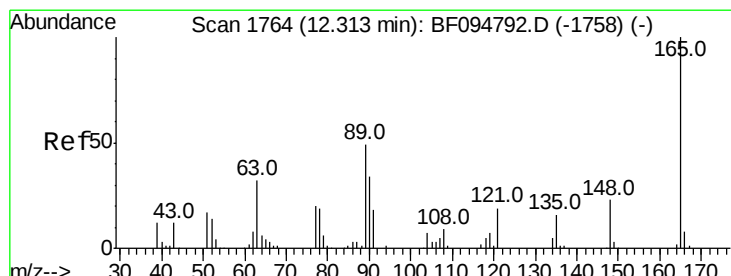
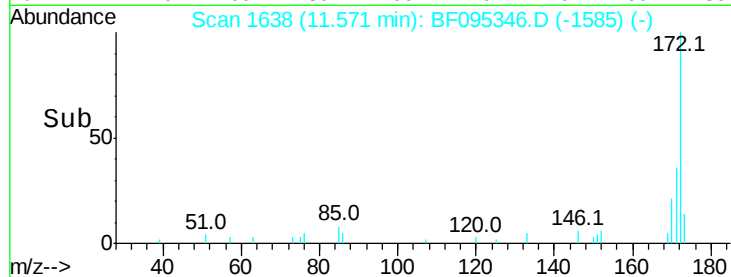
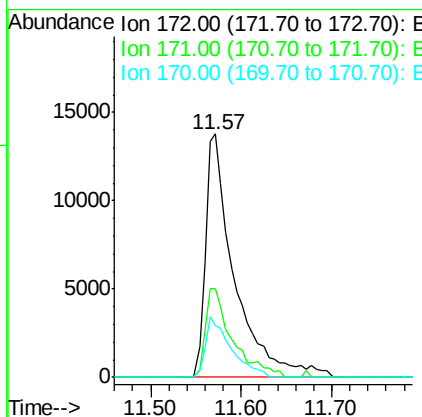
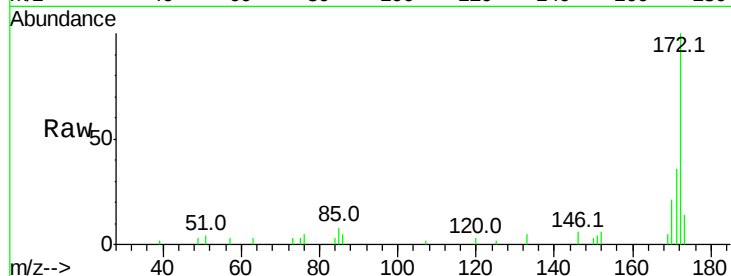




#44
 2-Fluorobiphenyl
 Concen: 3.25 ng
 RT: 11.57 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

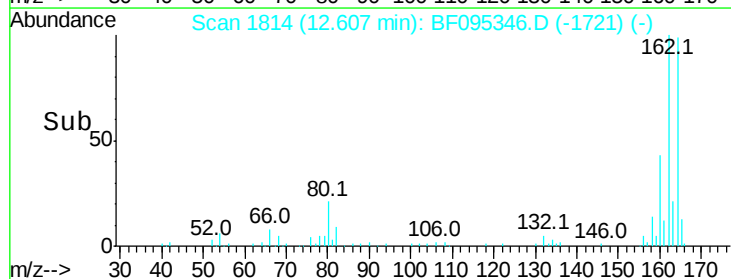
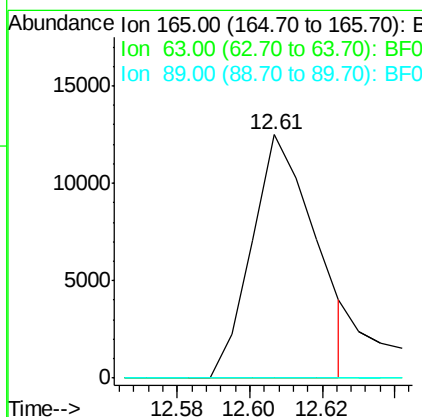
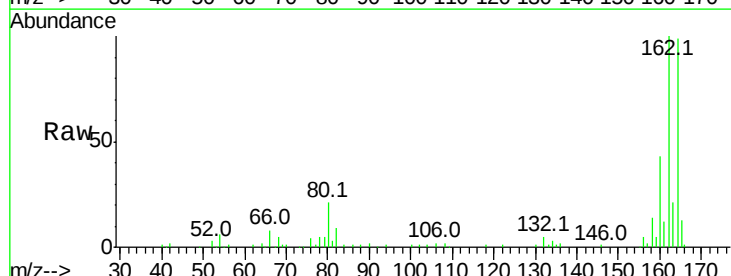
Instrument :
 BNA_F
 ClientSampleId :

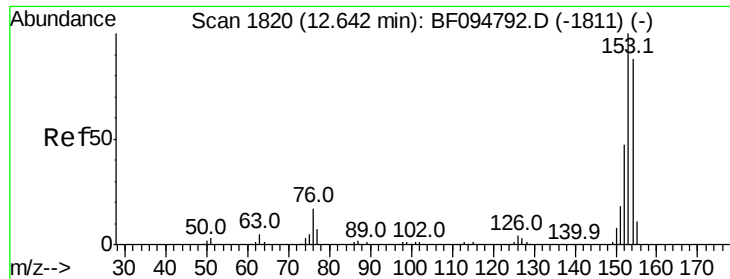
Tot Ion:172 Resp: 30694
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.6 44.4
 170 21.5 19.8 29.8



#50
 2,6-Dinitrotoluene
 Concen: 6.70 ng
 RT: 12.61 min Scan# 1814
 Delta R.T. 0.25 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion:165 Resp: 15255
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#

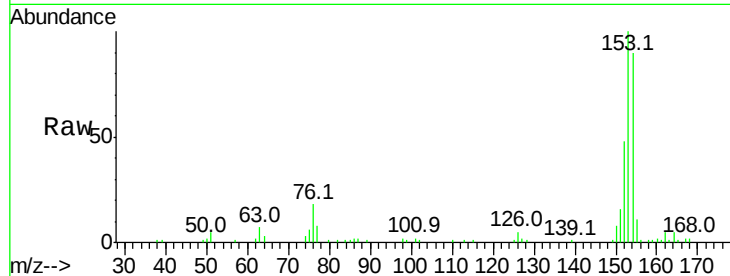




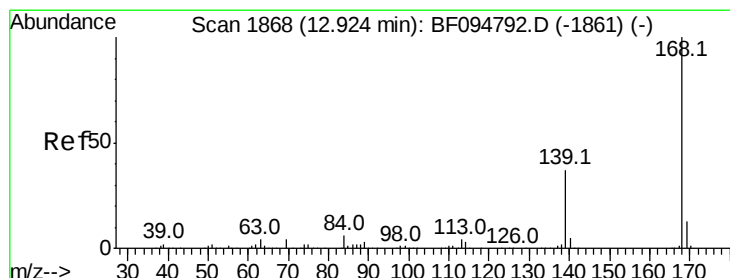
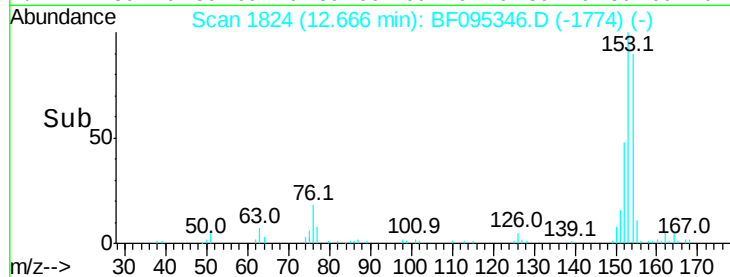
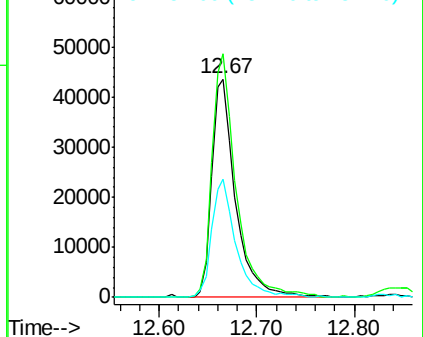
#51
Acenaphthene
Concen: 8.55 ng
RT: 12.67 min Scan# 1824
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:154 Resp: 73888
Ion Ratio Lower Upper
154 100
153 111.6 90.5 135.7
152 54.0 43.6 65.4

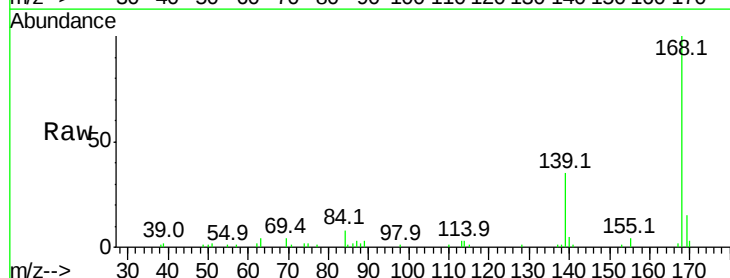


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

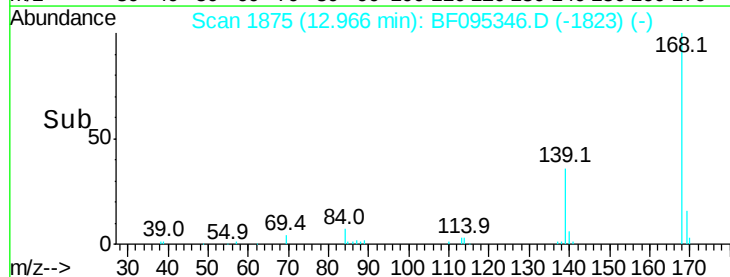
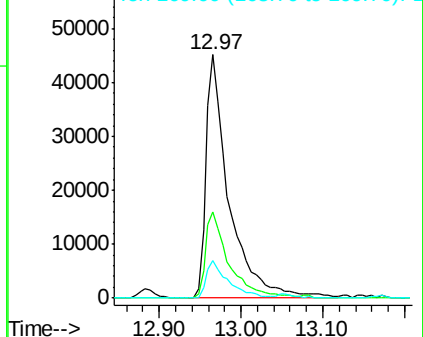


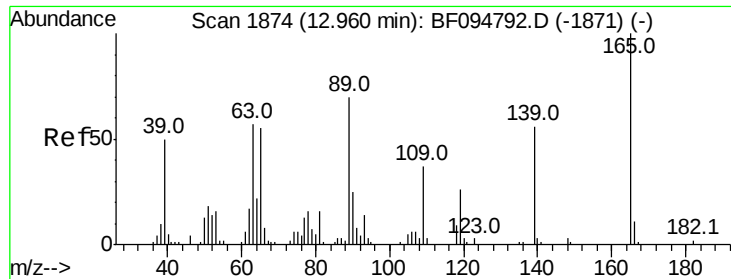
#54
Dibenzofuran
Concen: 7.39 ng
RT: 12.97 min Scan# 1875
Delta R.T. 0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:168 Resp: 88436
Ion Ratio Lower Upper
168 100
139 35.4 30.6 45.8
169 15.4 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

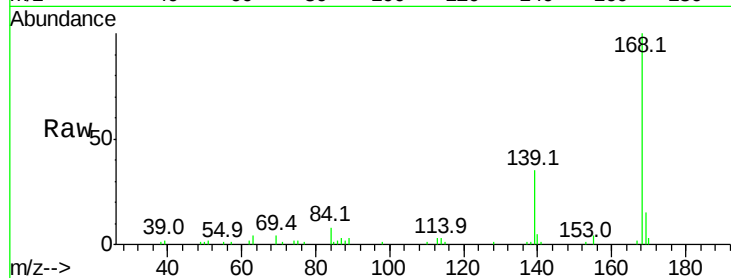




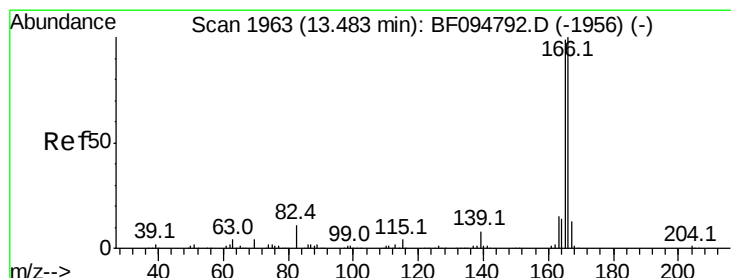
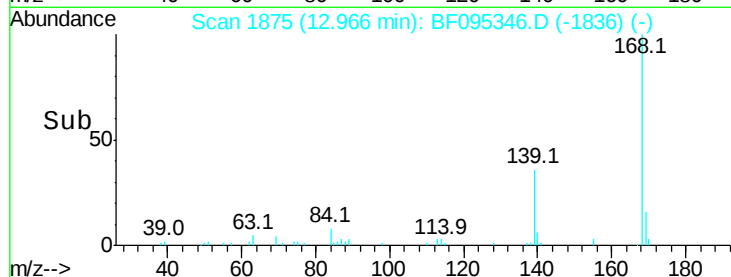
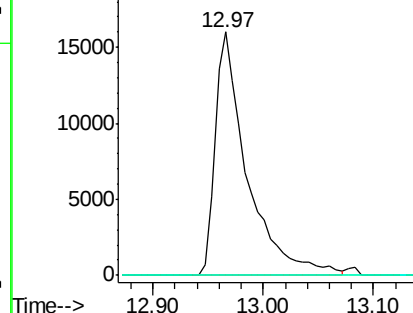
#55
4-Nitrophenol
Concen: 21.68 ng
RT: 12.97 min Scan# 1875
Delta R.T. -0.07 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 31814
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

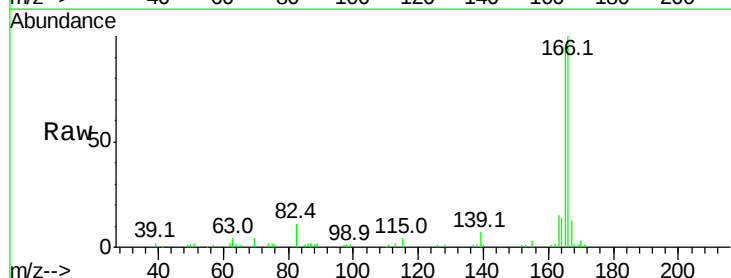


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

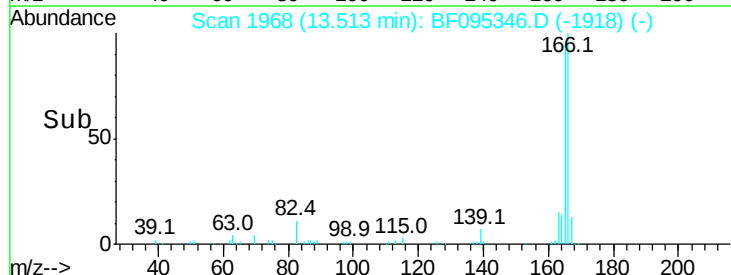
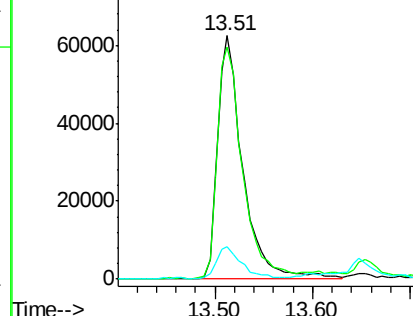


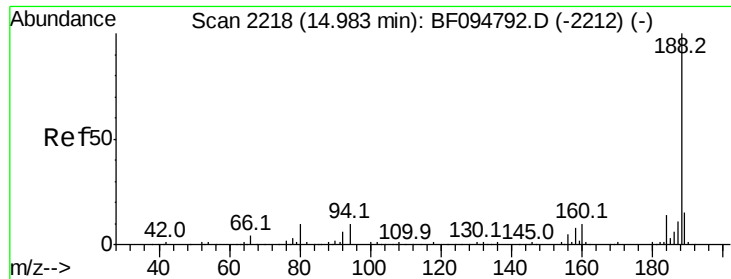
#57
Fluorene
Concen: 10.73 ng
RT: 13.51 min Scan# 1968
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:166 Resp: 111646
Ion Ratio Lower Upper
166 100
165 95.5 78.8 118.2
167 13.3 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

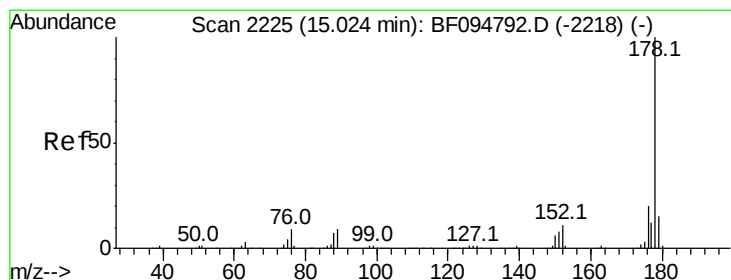
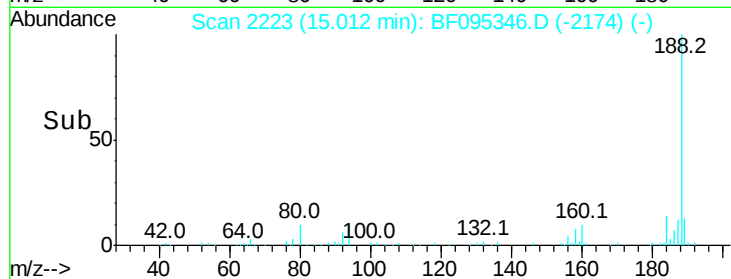
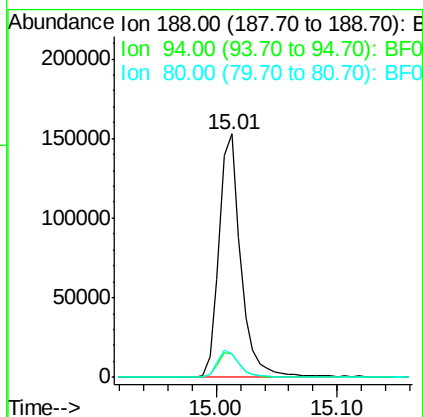
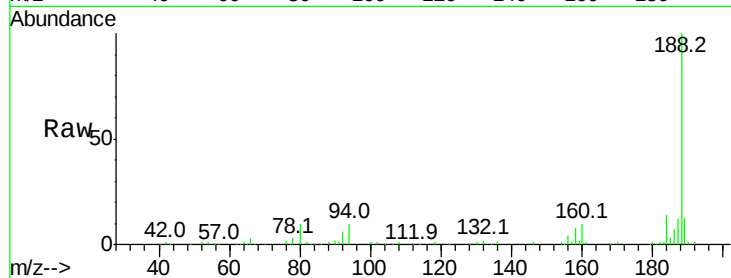




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.01 min Scan# 2223
 Delta R.T. -0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

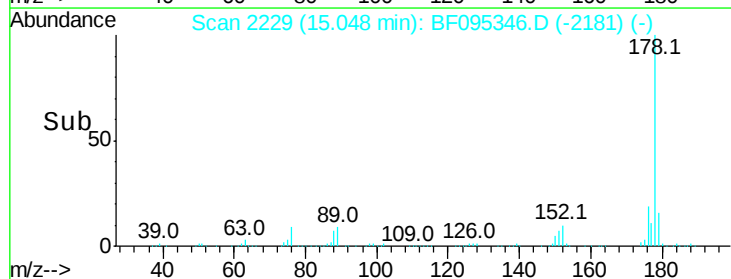
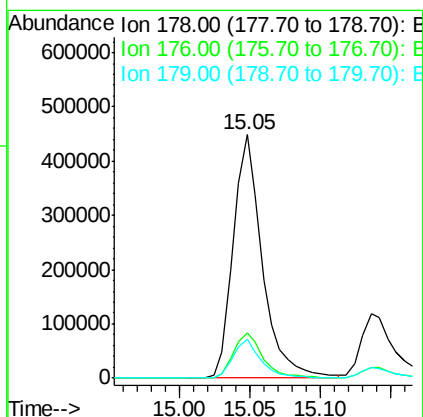
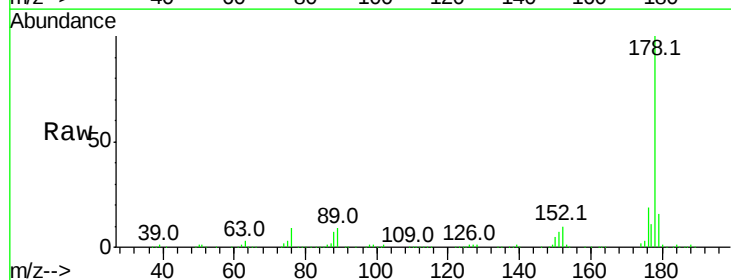
Instrument :
 BNA_F
 ClientSampleId :

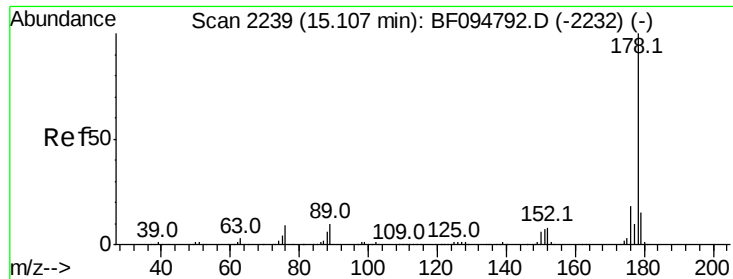
Tot Ion:188 Resp: 190315
 Ion Ratio Lower Upper
 188 100
 94 9.7 9.4 14.2
 80 9.7 10.2 15.2#



#70
 Phenanthrene
 Concen: 59.02 ng
 RT: 15.05 min Scan# 2229
 Delta R.T. -0.02 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion:178 Resp: 645335
 Ion Ratio Lower Upper
 178 100
 176 18.6 16.2 24.4
 179 15.7 12.6 19.0

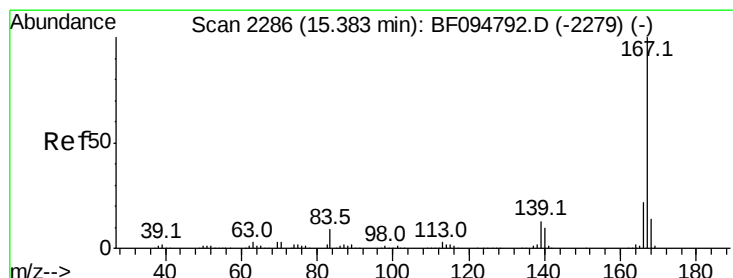
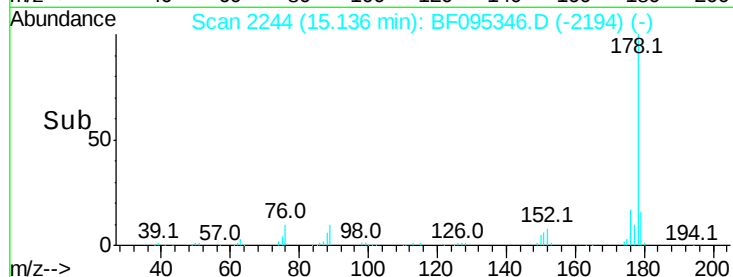
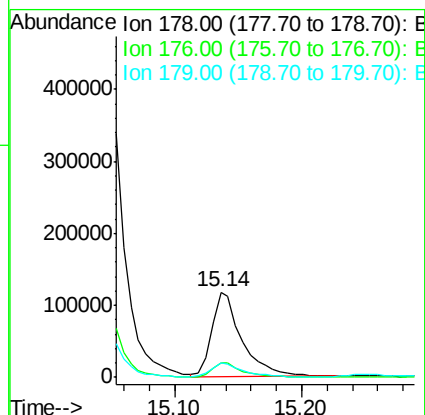
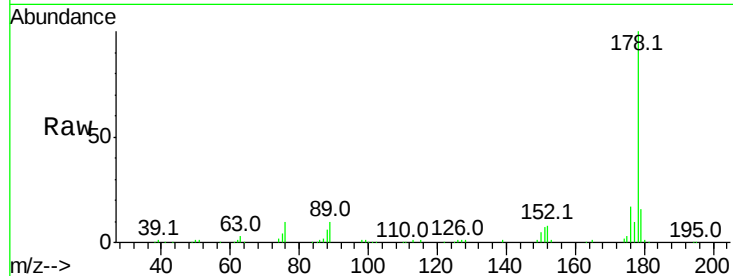




#71
 Anthracene
 Concen: 17.23 ng
 RT: 15.14 min Scan# 2244
 Delta R.T. -0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

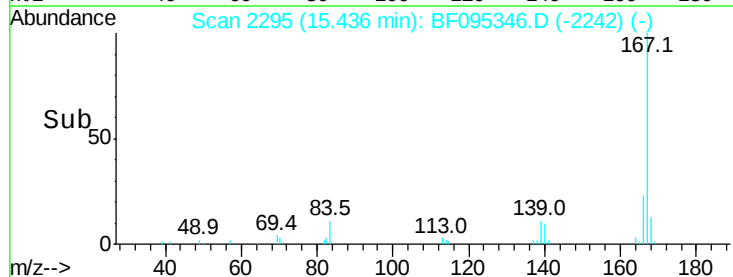
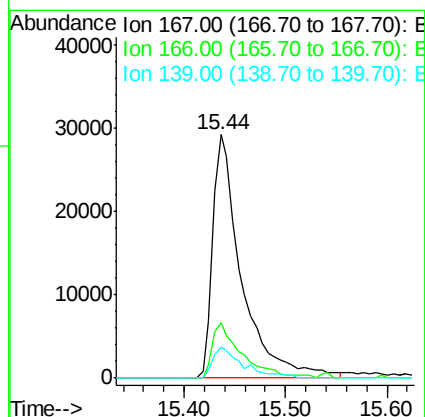
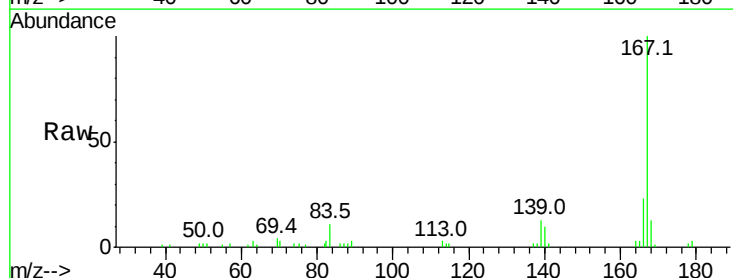
Instrument :
 BNA_F
 ClientSampleId :

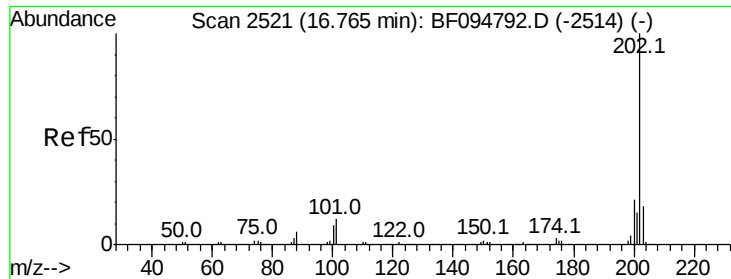
Tot Ion:178 Resp: 192490
 Ion Ratio Lower Upper
 178 100
 176 17.0 15.8 23.8
 179 16.5 12.7 19.1



#72
 Carbazole
 Concen: 5.69 ng
 RT: 15.44 min Scan# 2295
 Delta R.T. 0.01 min
 Lab File: BF095346.D
 Acq: 23 May 2017 10:24

Tgt Ion:167 Resp: 57838
 Ion Ratio Lower Upper
 167 100
 166 22.8 18.1 27.1
 139 12.8 11.7 17.5





#74

Fluoranthene

Concen: 50.58 ng

RT: 16.79 min Scan# 2525

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

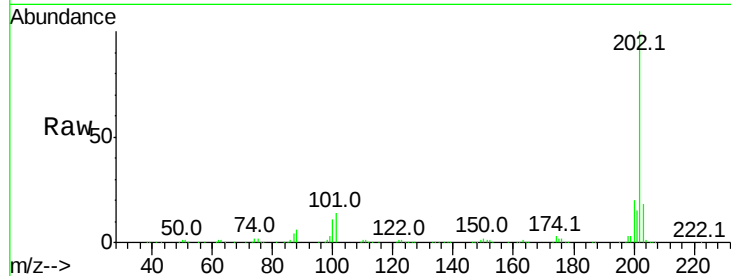
Tot Ion:202 Resp: 567380

Ion Ratio Lower Upper

202 100

101 14.2 0.0 33.2

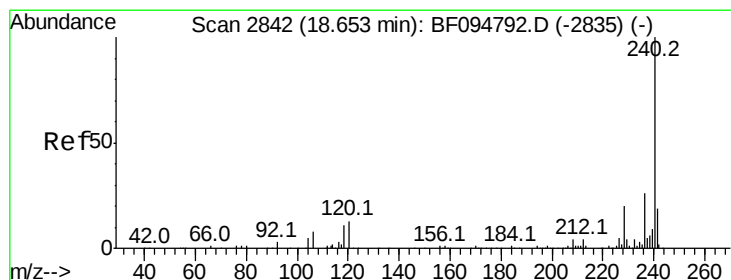
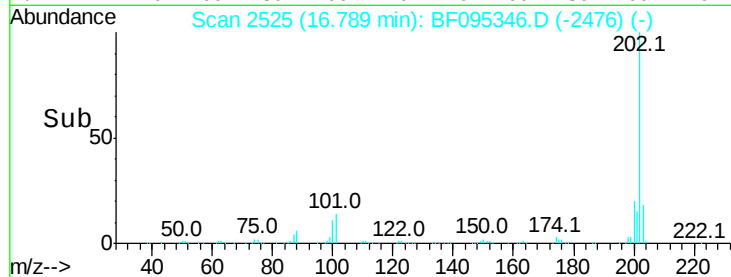
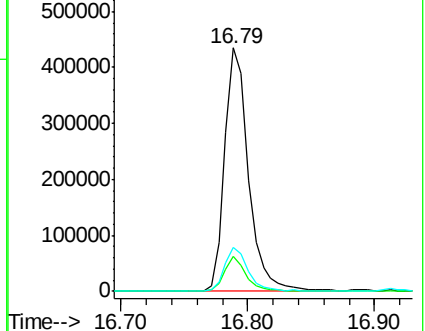
203 18.0 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.68 min Scan# 2847

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

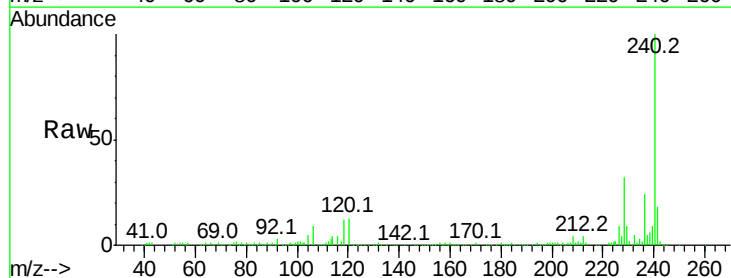
Tgt Ion:240 Resp: 193230

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

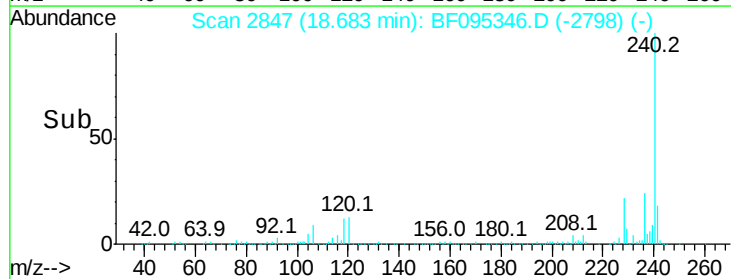
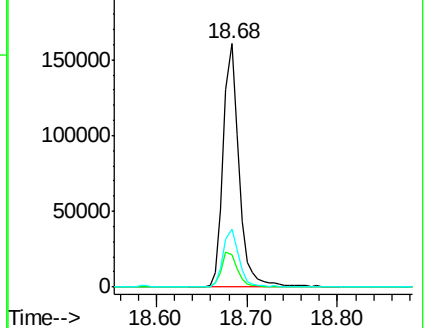
236 24.0 20.5 30.7

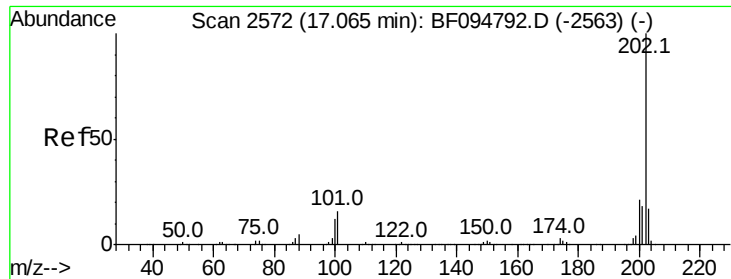


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 33.18 ng

RT: 17.09 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

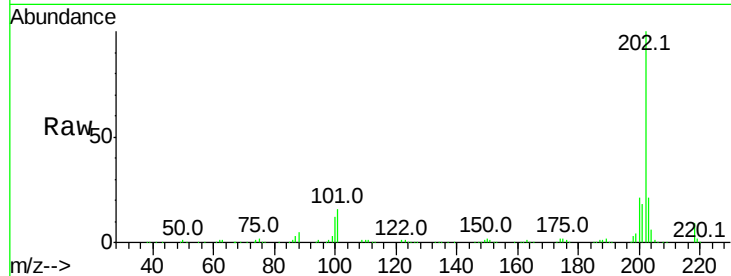
Tot Ion:202 Resp: 479455

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

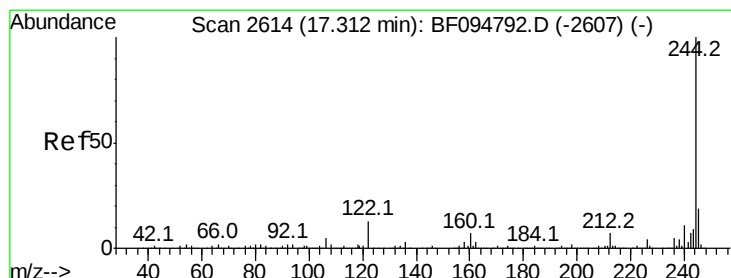
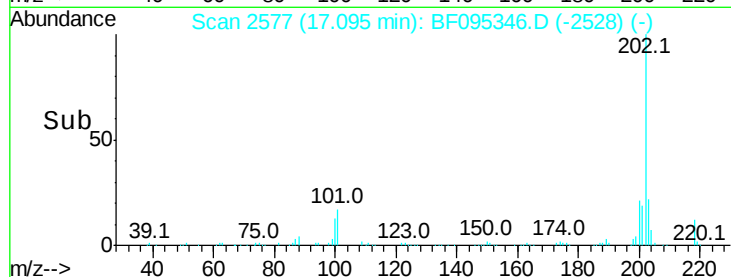
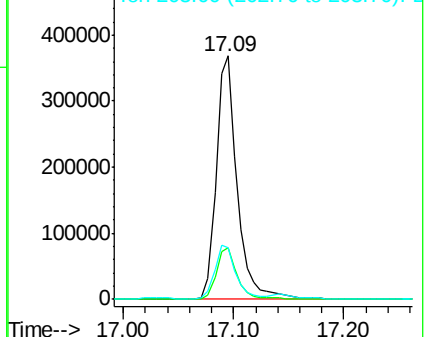
203 21.2 14.4 21.6



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: 2.27 ng

RT: 17.33 min Scan# 2617

Delta R.T. -0.02 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

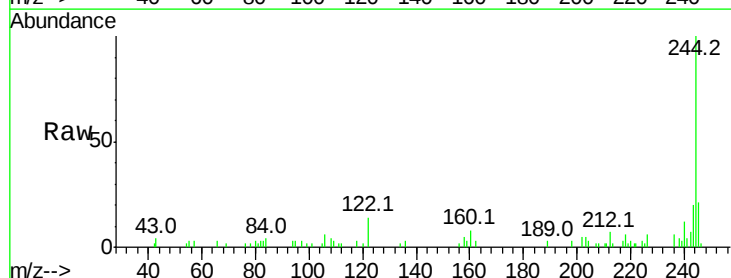
Tgt Ion:244 Resp: 19882

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

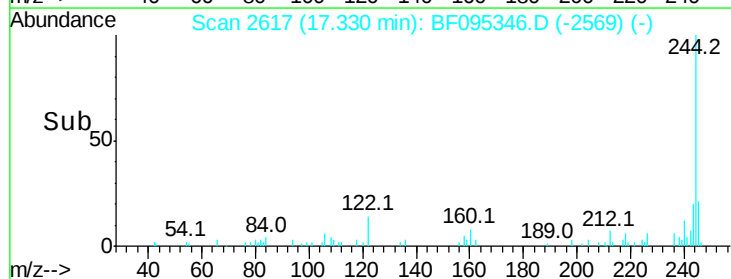
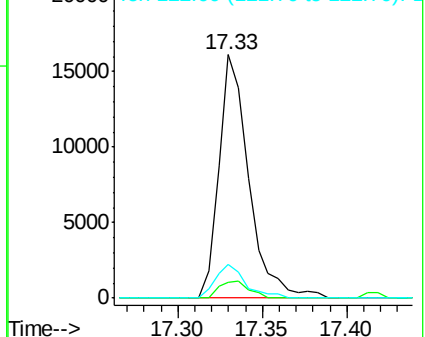
122 14.1 10.3 15.5

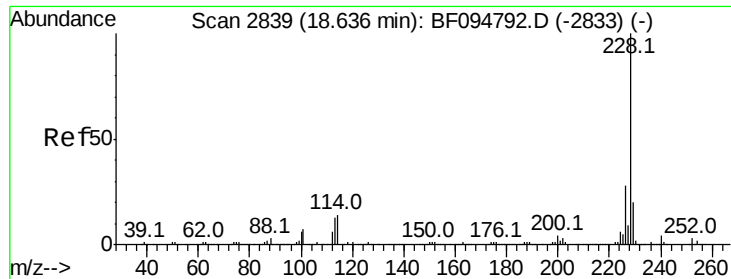


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

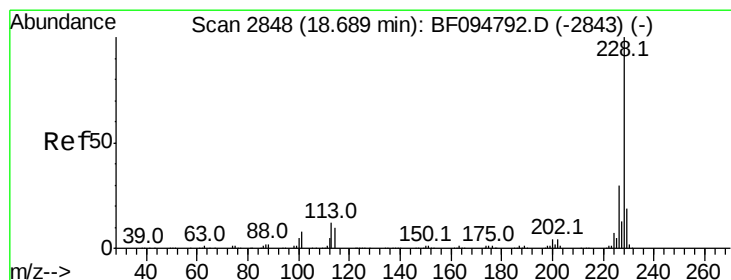
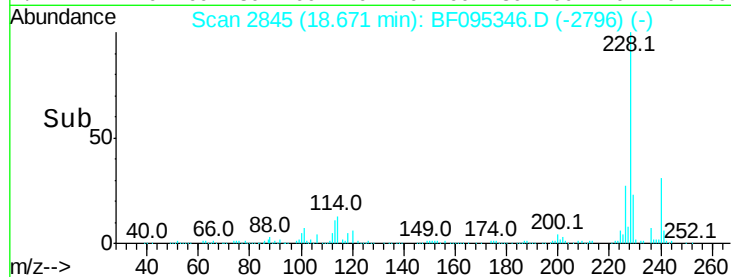
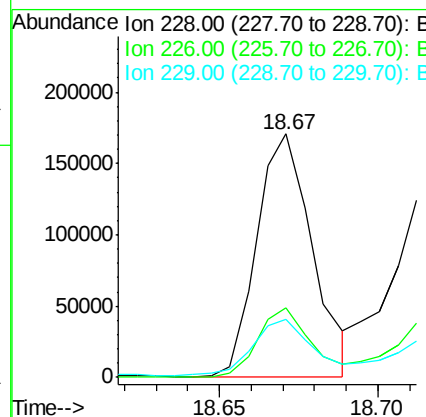
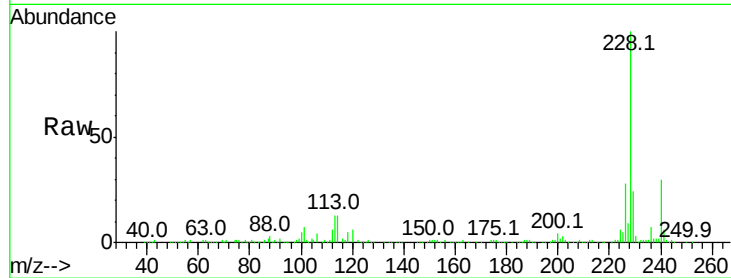




#80
Benzo(a)anthracene
Concen: 18.45 ng
RT: 18.67 min Scan# 2845
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

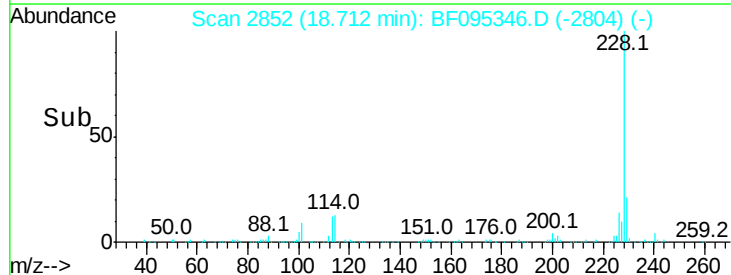
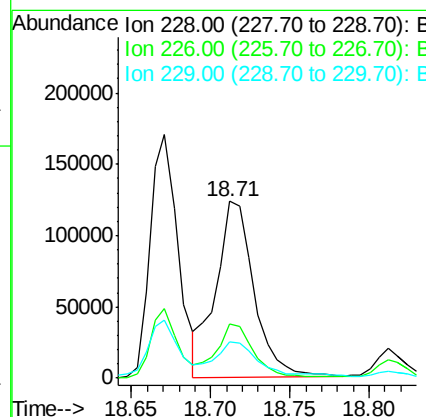
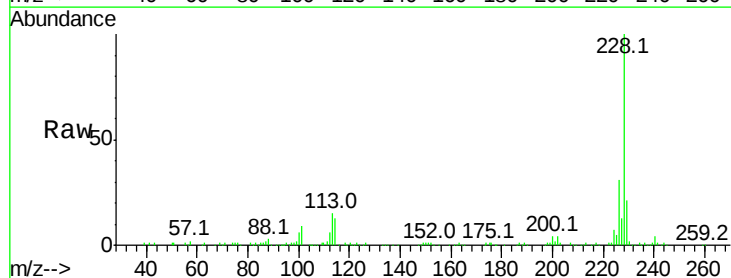
Instrument :
BNA_F
ClientSampleId :

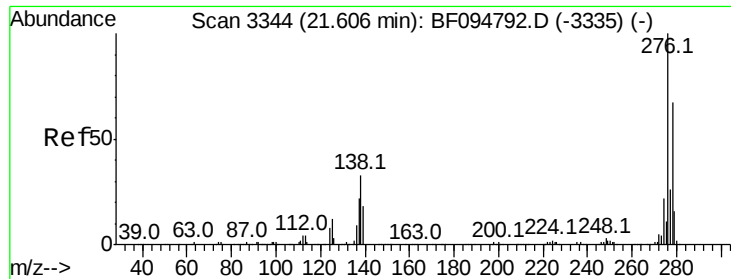
Tot Ion:228 Resp: 207491
Ion Ratio Lower Upper
228 100
226 28.5 22.6 33.8
229 24.0 16.3 24.5



#82
Chrysene
Concen: 19.03 ng
RT: 18.71 min Scan# 2852
Delta R.T. -0.02 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:228 Resp: 206889
Ion Ratio Lower Upper
228 100
226 30.5 24.9 37.3
229 20.8 15.8 23.6

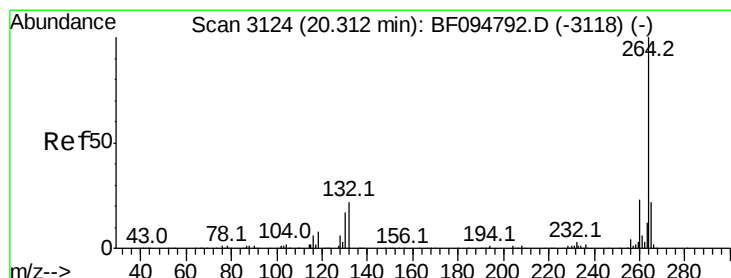
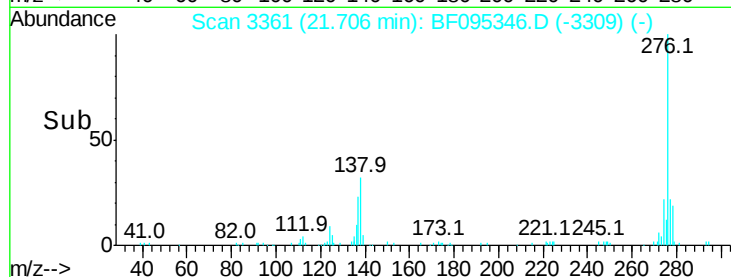
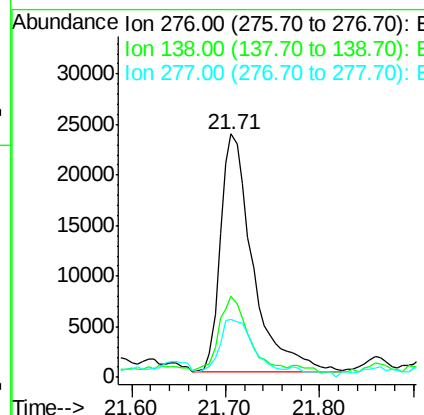
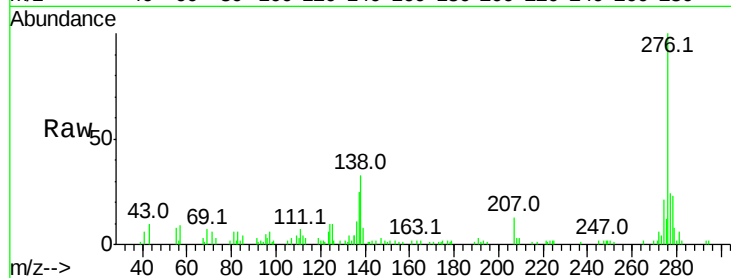




#85
Indeno(1,2,3-cd)pyrene
Concen: 6.40 ng
RT: 21.71 min Scan# 3361
Delta R.T. 0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

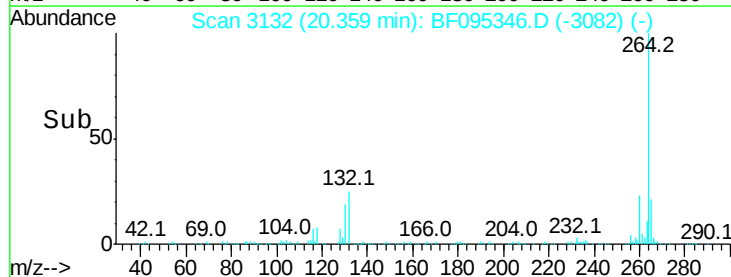
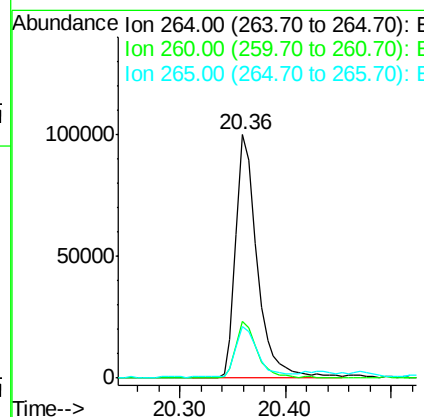
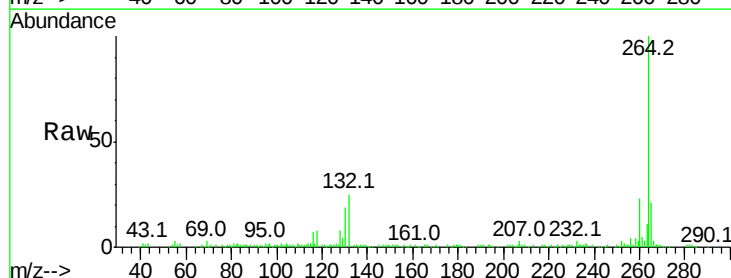
Instrument :
BNA_F
ClientSampleId :

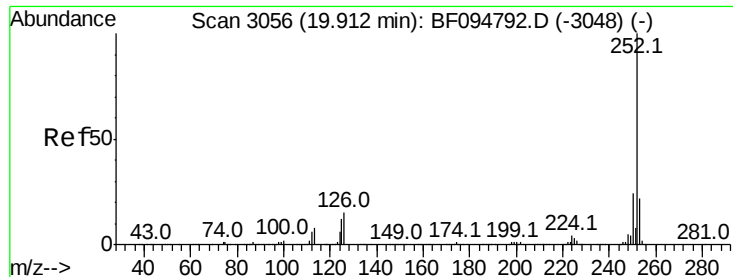
Tot Ion:276 Resp: 56510
Ion Ratio Lower Upper
276 100
138 27.6 27.8 41.6#
277 22.0 20.2 30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 20.36 min Scan# 3132
Delta R.T. -0.01 min
Lab File: BF095346.D
Acq: 23 May 2017 10:24

Tgt Ion:264 Resp: 141536
Ion Ratio Lower Upper
264 100
260 23.5 19.5 29.3
265 21.4 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 28.32 ng

RT: 19.95 min Scan# 3063

Delta R.T. -0.01 min

Lab File: BF095346.D

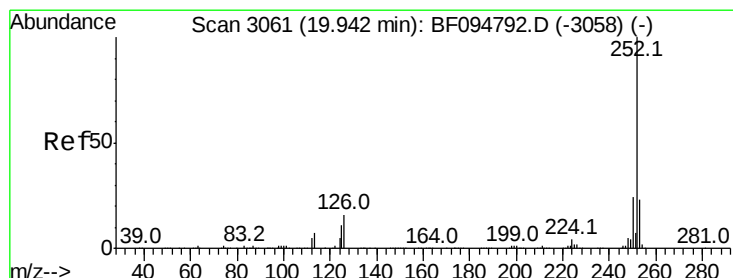
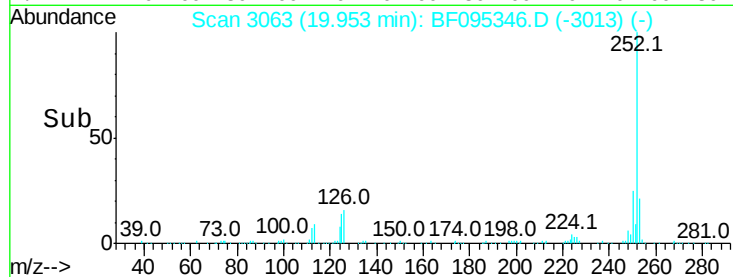
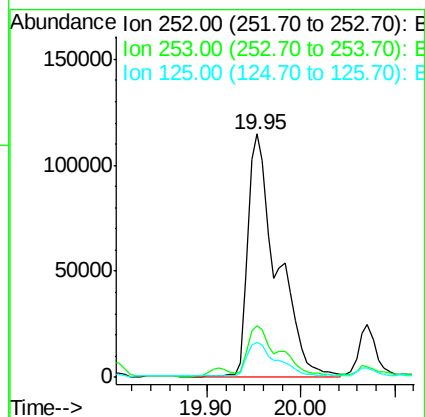
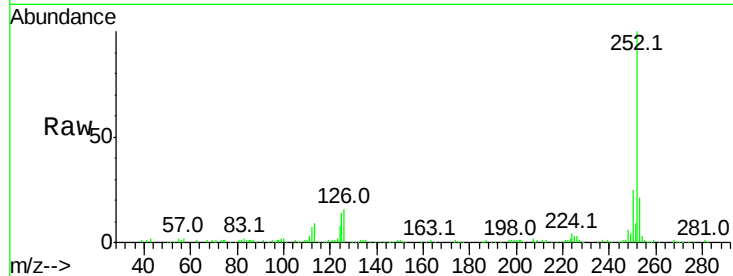
Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	247702
Ion Ratio	Lower	Upper
252	100	
253	21.1	18.1 27.1
125	14.2	9.8 14.8



#88

Benzo(k)fluoranthene

Concen: 29.36 ng

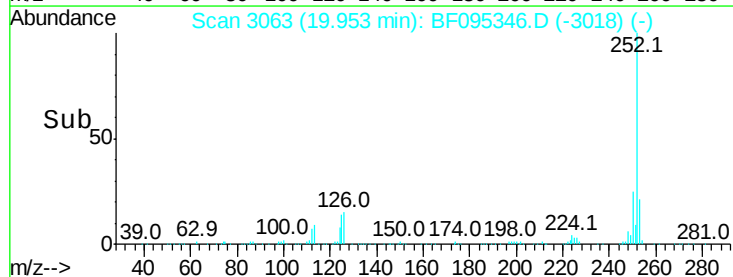
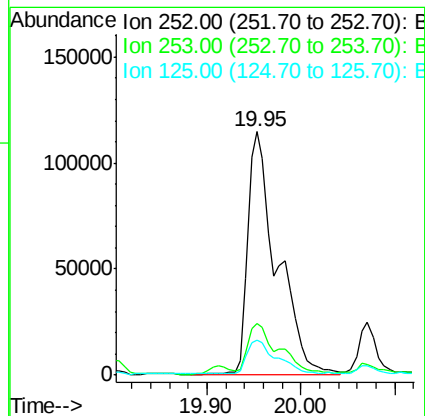
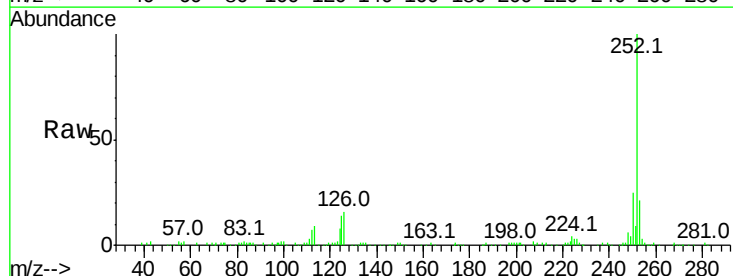
RT: 19.95 min Scan# 3063

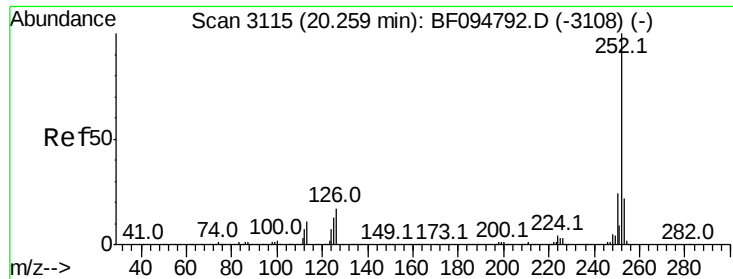
Delta R.T. -0.04 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Tgt Ion:252	Resp:	247702
Ion Ratio	Lower	Upper
252	100	
253	21.1	18.4 27.6
125	14.2	13.1 19.7





#89

Benzo(a)pyrene

Concen: 15.69 ng

RT: 20.31 min Scan# 3123

Delta R.T. -0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

Instrument :

BNA_F

ClientSampled :

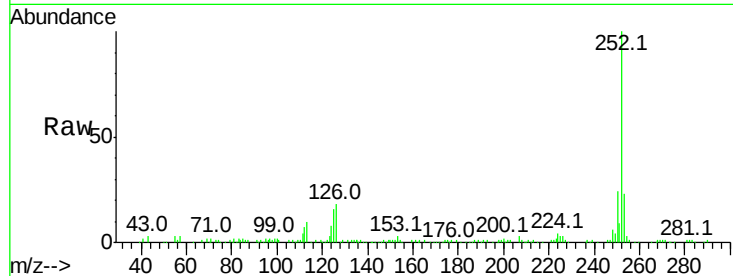
Tot Ion:252 Resp: 126658

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

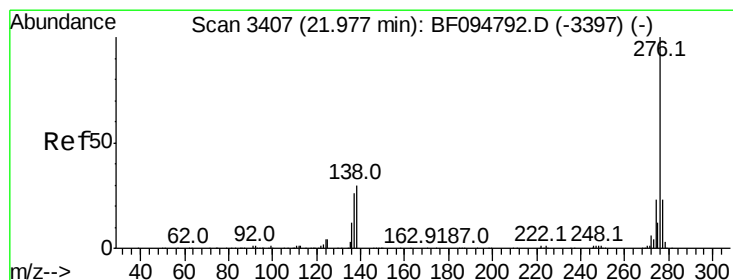
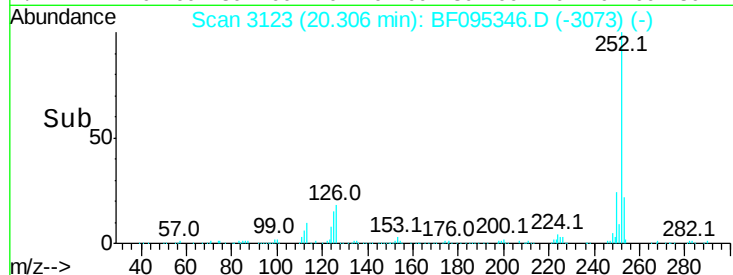
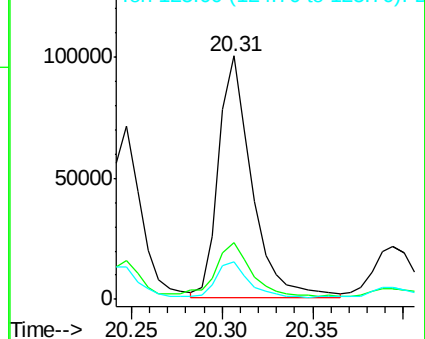
125 15.5 11.0 16.4



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: 8.84 ng

RT: 22.09 min Scan# 3427

Delta R.T. 0.01 min

Lab File: BF095346.D

Acq: 23 May 2017 10:24

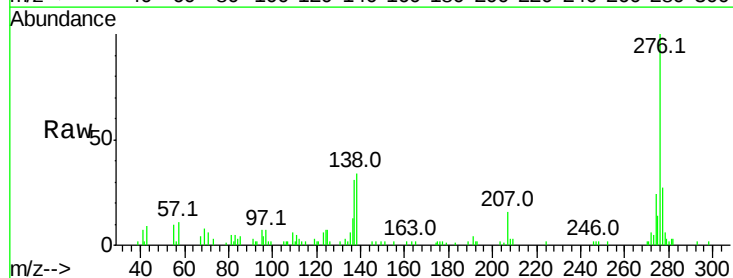
Tgt Ion:276 Resp: 57800

Ion Ratio Lower Upper

276 100

277 26.9 18.6 28.0

138 33.7 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

