

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051517\
 Data File : BF095144.D
 Acq On : 16 May 2017 1:08
 Operator : SJ/MA
 Sample : I3140-15 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 16 06:02:02 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	72840	20.00	ng	0.05
21) Naphthalene-d8	9.80	136	286375	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	122026	20.00	ng	0.04
63) Phenanthrene-d10	15.03	188	176011	20.00	ng	0.05
75) Chrysene-d12	18.70	240	186471	20.00	ng	0.05
86) Perylene-d12	20.38	264	157526	20.00	ng	0.06

System Monitoring Compounds

5) 2-Fluorophenol	5.81	112	34195	7.83	ng	0.13
7) Phenol-d6	7.37	99	45328	8.65	ng	0.09
23) Nitrobenzene-d5	8.70	82	24268	5.34	ng	0.06
41) 2,4,6-Tribromophenol	13.94	330	7875	7.88	ng	0.05
44) 2-Fluorobiphenyl	11.57	172	67957	8.02	ng	0.04
78) Terphenyl-d14	17.35	244	44210	5.22	ng	0.04

Target Compounds

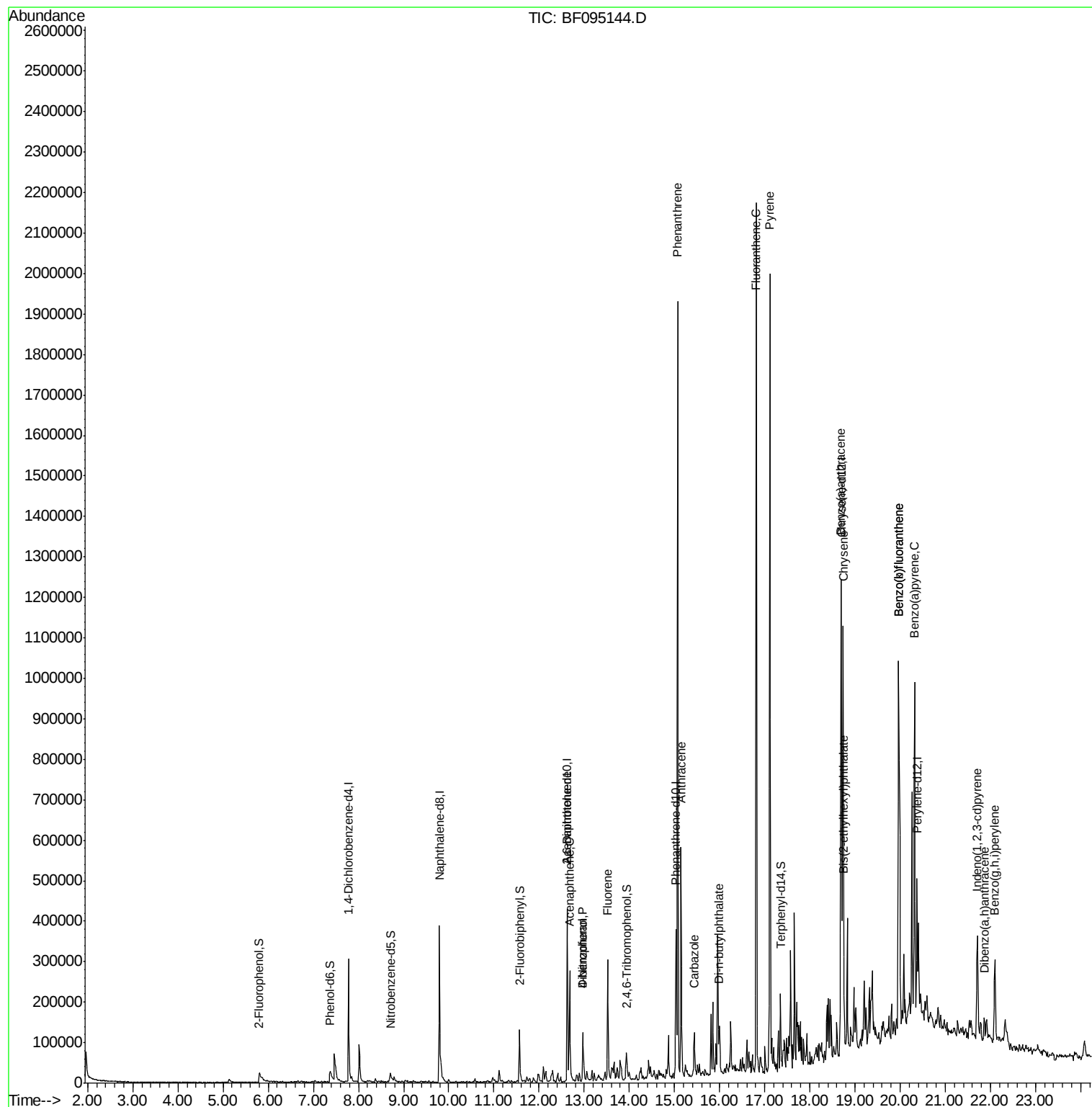
						Qvalue
50) 2,6-Dinitrotoluene	12.62	165	13828	6.77	ng	# 31
51) Acenaphthene	12.68	154	87347	11.25	ng	99
54) Dibenzofuran	12.97	168	80470	7.49	ng	95
55) 4-Nitrophenol	12.97	139	28510	21.64	ng	# 28
57) Fluorene	13.52	166	133423	14.29	ng	100
70) Phenanthrene	15.07	178	1050220	103.85	ng	98
71) Anthracene	15.15	178	326121	31.57	ng	97
72) Carbazole	15.44	167	77559	8.25	ng	# 96
73) Di-n-butylphthalate	15.99	149	27868	2.38	ng	100
74) Fluoranthene	16.81	202	1157526	111.58	ng	99
77) Pyrene	17.12	202	981552	70.38	ng	98
80) Benzo(a)anthracene	18.69	228	517448	47.68	ng	99
82) Chrysene	18.74	228	426424	40.64	ng	97
83) Bis(2-ethylhexyl)phthalate	18.75	149	47353	5.12	ng	100
85) Indeno(1,2,3-cd)pyrene	21.71	276	162166	19.03	ng	93
87) Benzo(b)fluoranthene	19.97	252	687314	70.61	ng	# 96
88) Benzo(k)fluoranthene	19.97	252	687314	73.20	ng	98
89) Benzo(a)pyrene	20.32	252	362475	40.36	ng	98
90) Dibenzo(a,h)anthracene	21.87	278	28990	3.91	ng	98
91) Benzo(a,h,i)perylene	22.10	276	152793	20.99	ng	97

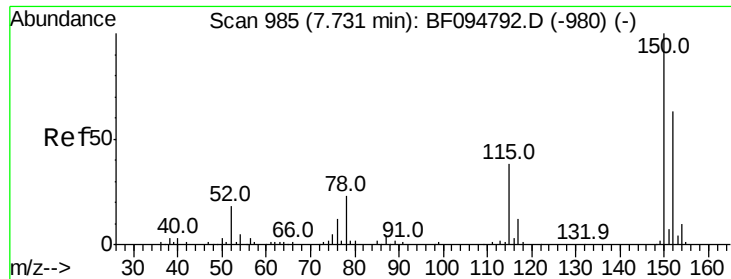
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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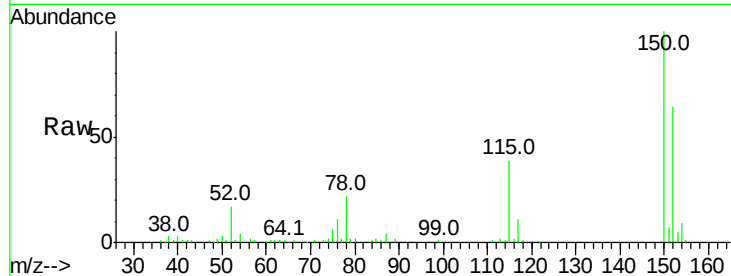


#1

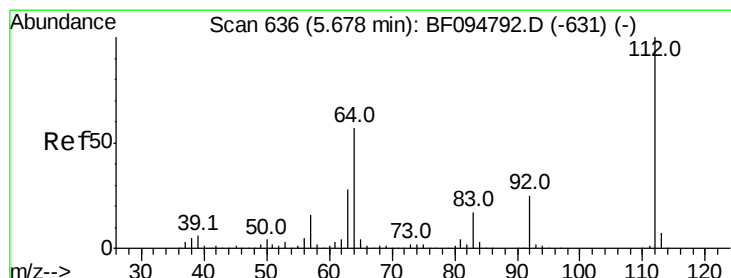
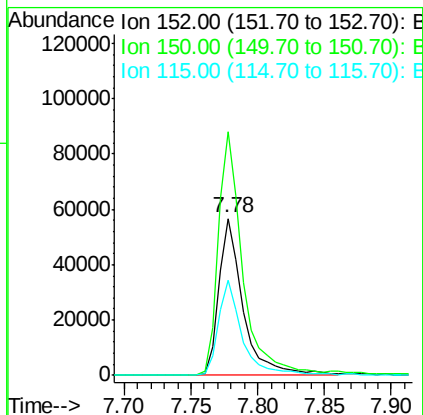
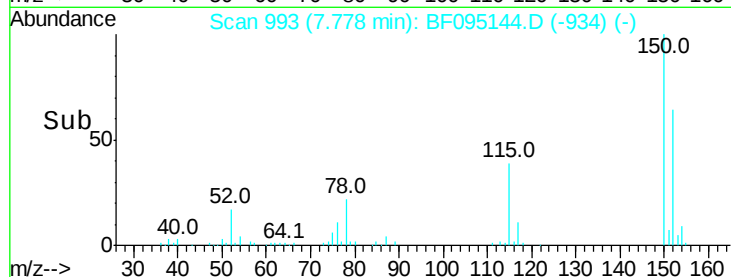
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.78 min Scan# 993
Delta R.T. 0.05 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 72840
Ion Ratio Lower Upper
152 100
150 155.1 126.2 189.2
115 60.5 52.2 78.2



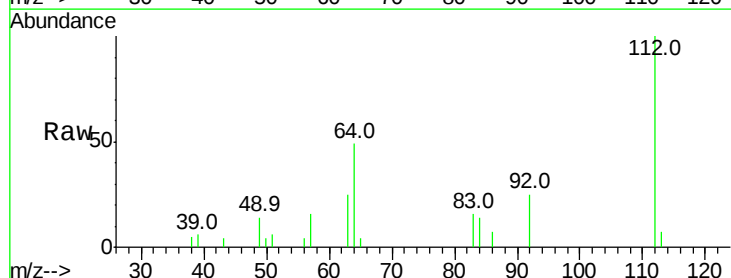
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



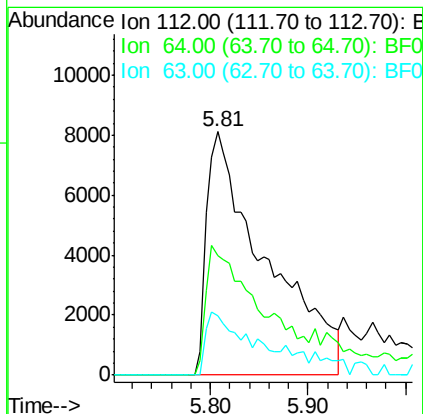
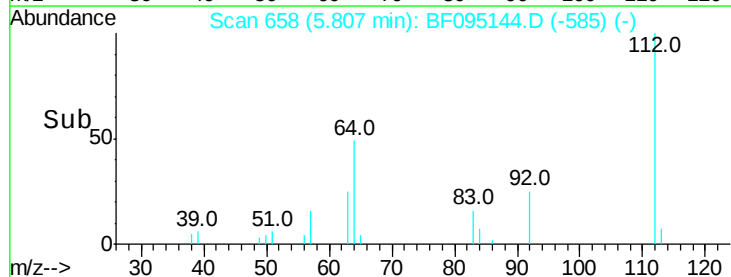
#5

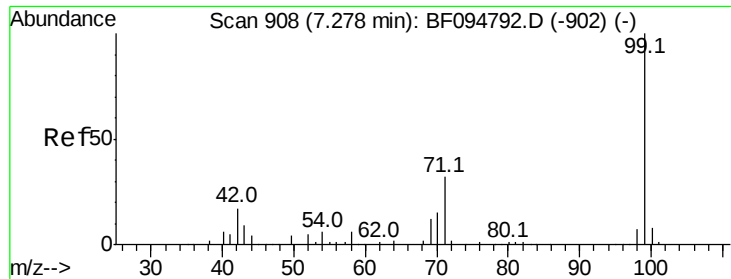
2-Fluorophenol
Concen: 7.83 ng
RT: 5.81 min Scan# 658
Delta R.T. 0.13 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Tgt Ion:112 Resp: 34195
Ion Ratio Lower Upper
112 100
64 49.3 46.0 69.0
63 24.5 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: 8.65 ng

RT: 7.37 min Scan# 923

Delta R.T. 0.09 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Instrument :

BNA_F

ClientSampled :

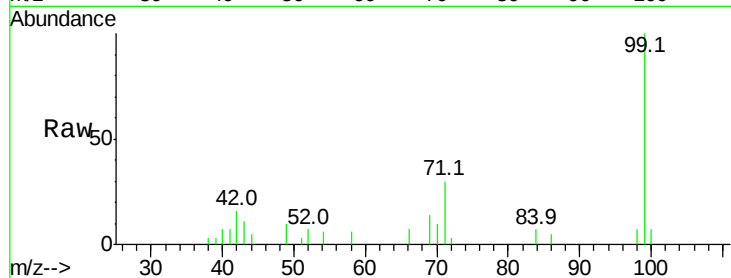
Tot Ion: 99 Resp: 45328

Ion Ratio Lower Upper

99 100

42 15.8 13.5 20.3

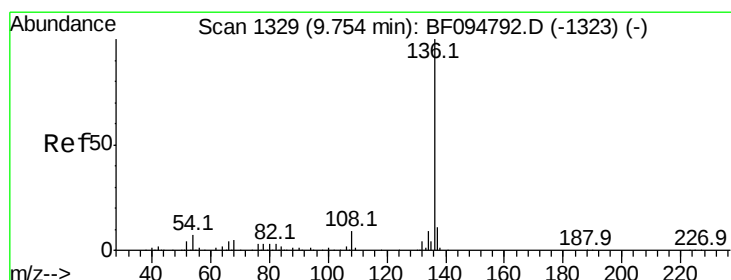
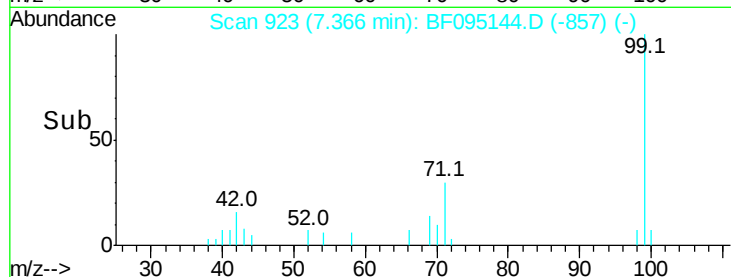
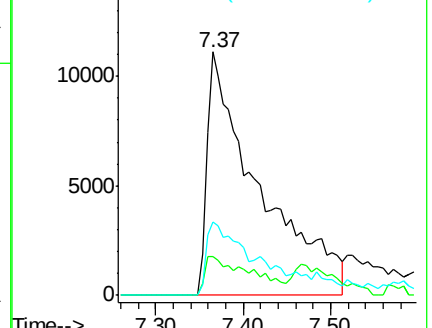
71 30.0 24.5 36.7



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: 9.80 min Scan# 1336

Delta R.T. 0.04 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Tgt Ion: 136 Resp: 286375

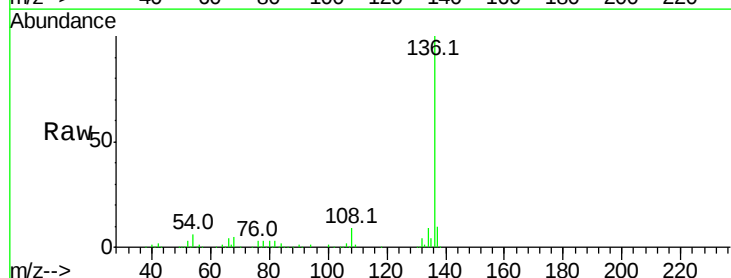
Ion Ratio Lower Upper

136 100

137 10.3 8.5 12.7

54 6.1 4.9 7.3

68 5.3 4.1 6.1

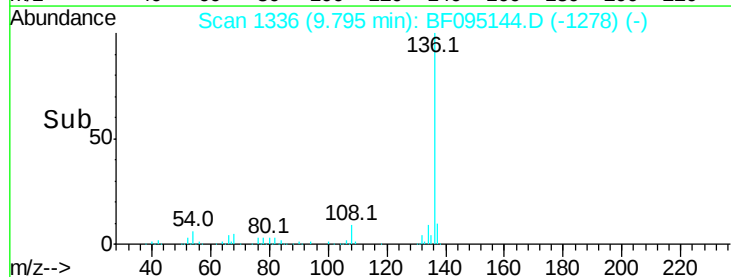
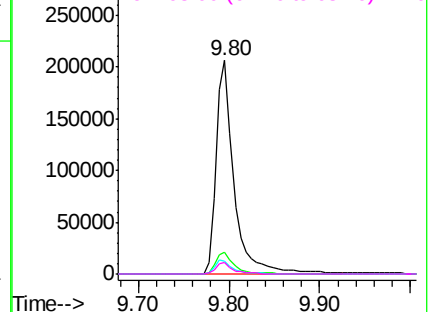


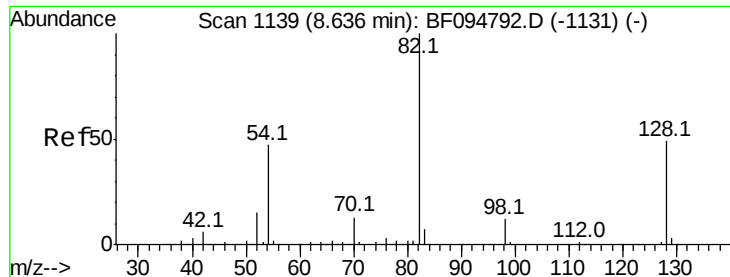
Abundance Ion 136.00 (135.70 to 136.70): E

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

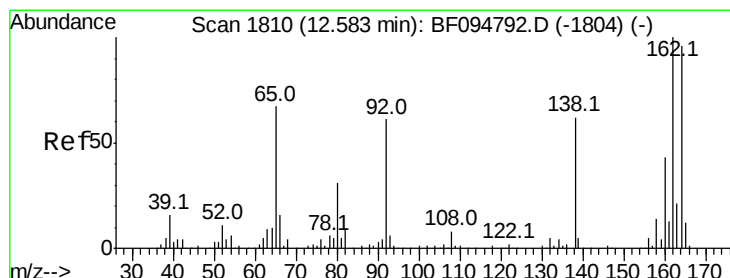
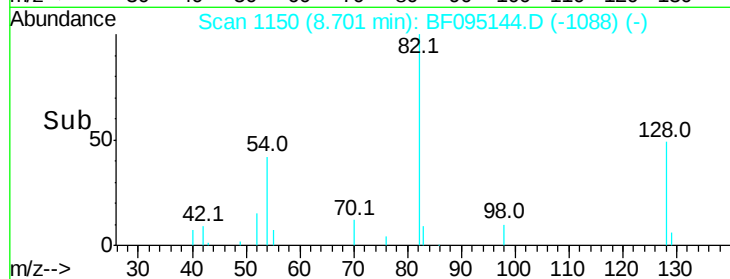
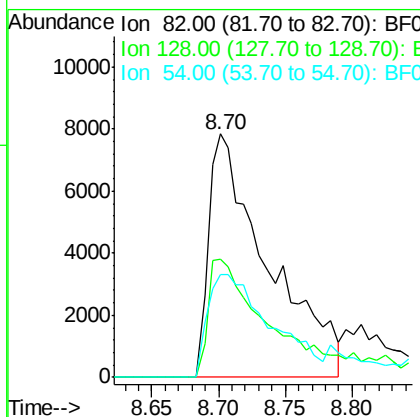
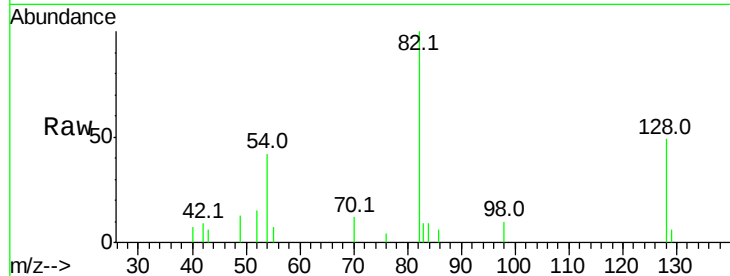




#23
 Nitrobenzene-d5
 Concen: 5.34 ng
 RT: 8.70 min Scan# 1150
 Delta R.T. 0.06 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

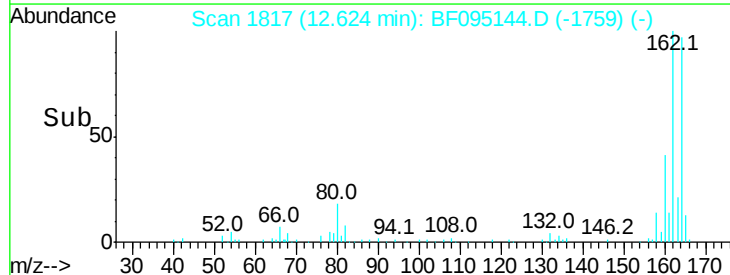
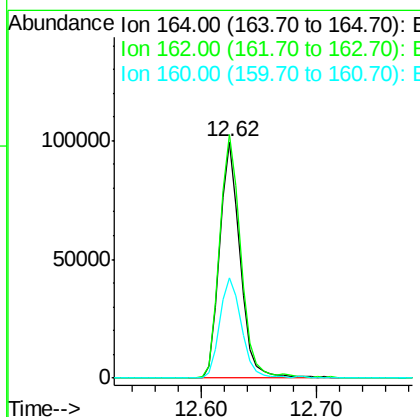
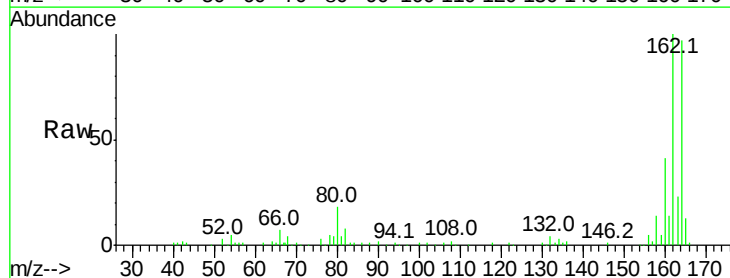
Instrument :
 BNA_F
 ClientSampled :

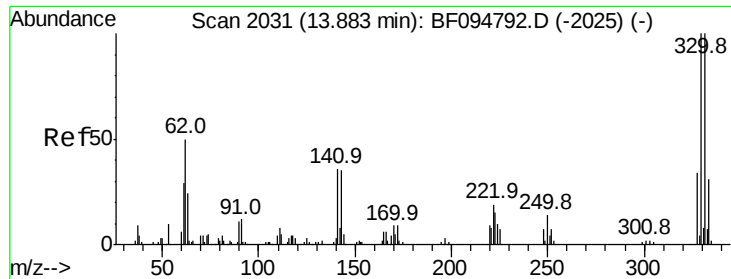
Tot Ion: 82 Resp: 24268
 Ion Ratio Lower Upper
 82 100
 128 48.6 34.0 51.0
 54 42.0 42.2 63.2#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. 0.04 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Tgt Ion:164 Resp: 122026
 Ion Ratio Lower Upper
 164 100
 162 103.1 82.6 123.8
 160 42.5 36.2 54.2

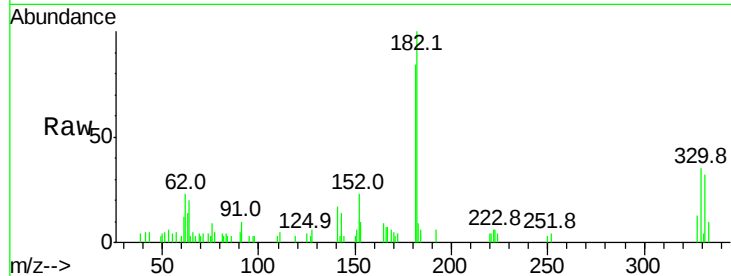




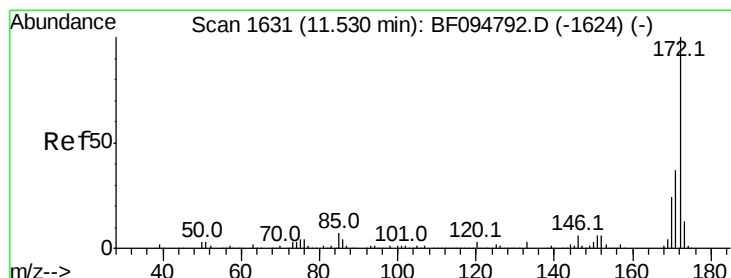
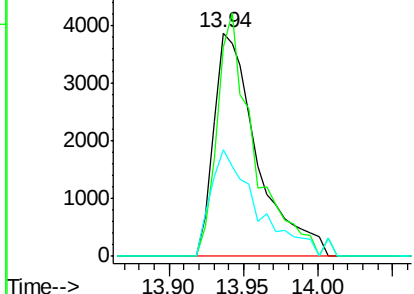
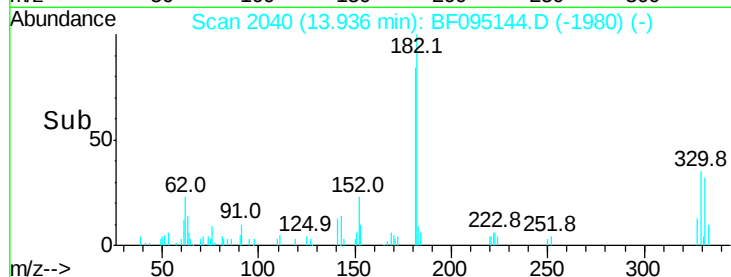
#41
 2,4,6-Tribromophenol
 Concen: 7.88 ng
 RT: 13.94 min Scan# 2040
 Delta R.T. 0.05 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 7875
 Ion Ratio Lower Upper
 330 100
 332 93.9 76.6 115.0
 141 52.1 31.4 47.2#

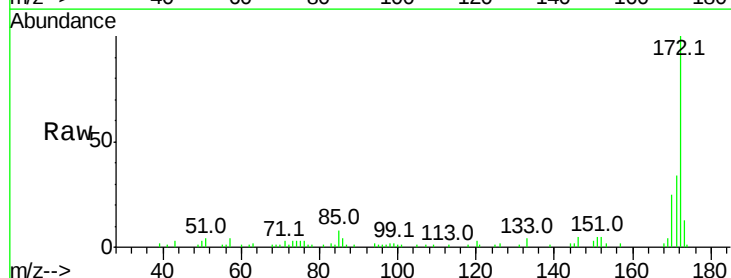


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

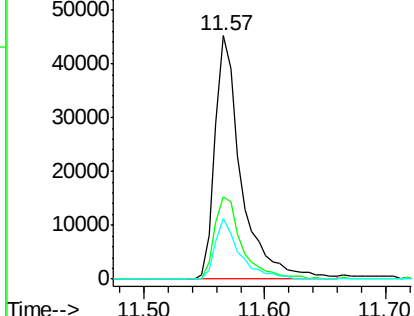
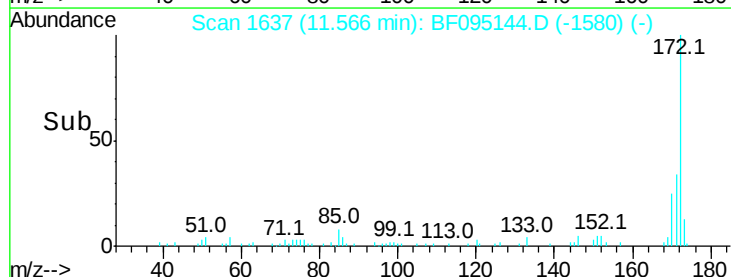


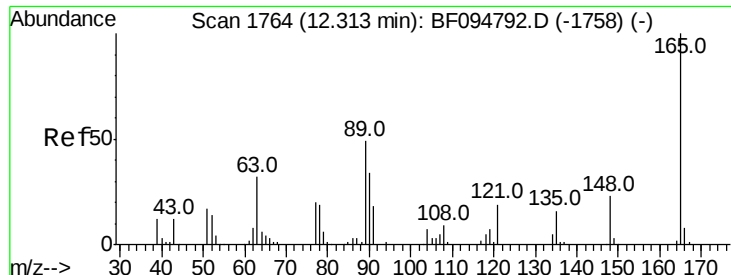
#44
 2-Fluorobiphenyl
 Concen: 8.02 ng
 RT: 11.57 min Scan# 1637
 Delta R.T. 0.04 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Tgt Ion:172 Resp: 67957
 Ion Ratio Lower Upper
 172 100
 171 33.7 29.6 44.4
 170 24.8 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

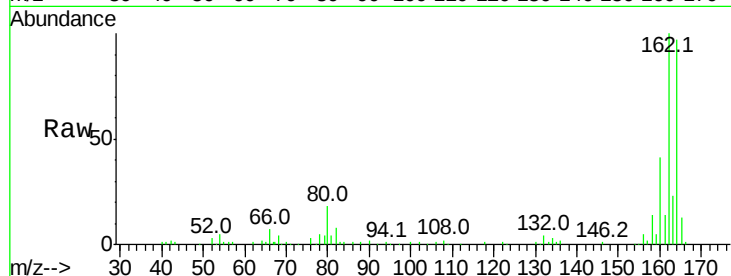




#50
 2,6-Dinitrotoluene
 Concen: 6.77 ng
 RT: 12.62 min Scan# 1817
 Delta R.T. 0.31 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Instrument :
 BNA_F
 ClientSampleId :

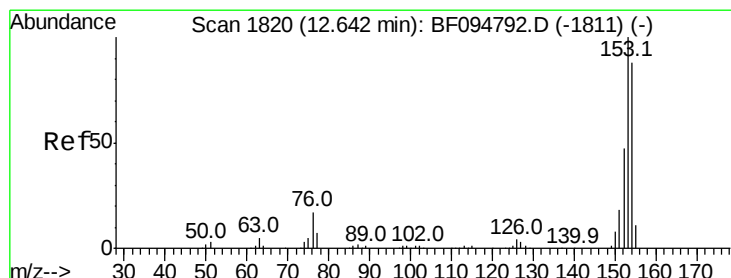
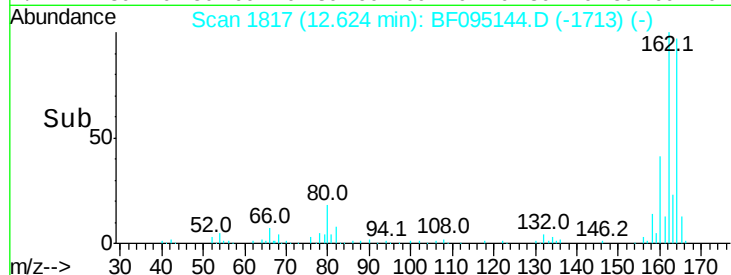
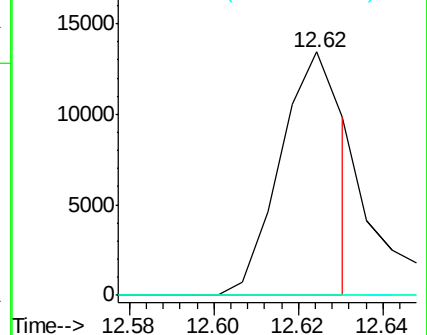
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

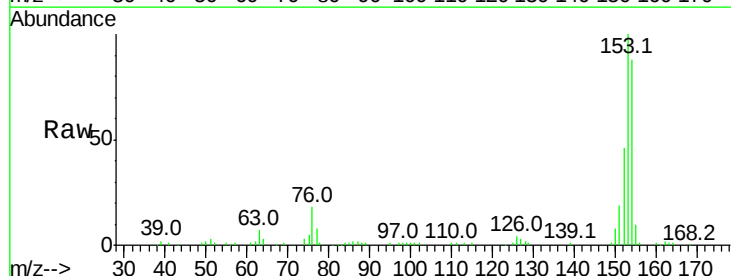
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#51
 Acenaphthene
 Concen: 11.25 ng
 RT: 12.68 min Scan# 1826
 Delta R.T. 0.04 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

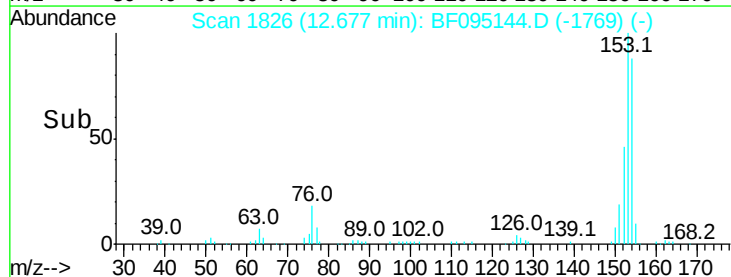
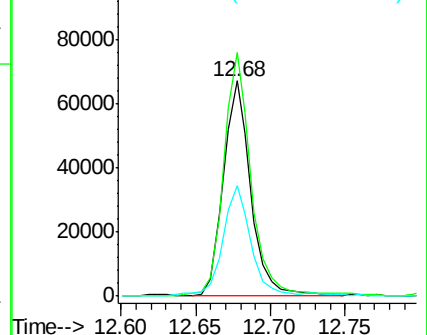
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.5	135.7
152	51.7	43.6	65.4

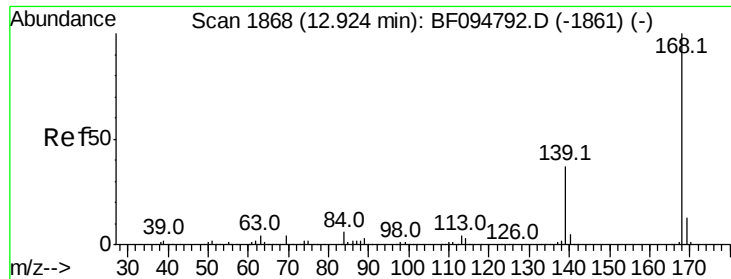


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 7.49 ng

RT: 12.97 min Scan# 1876

Delta R.T. 0.05 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Instrument :

BNA_F

ClientSampleId :

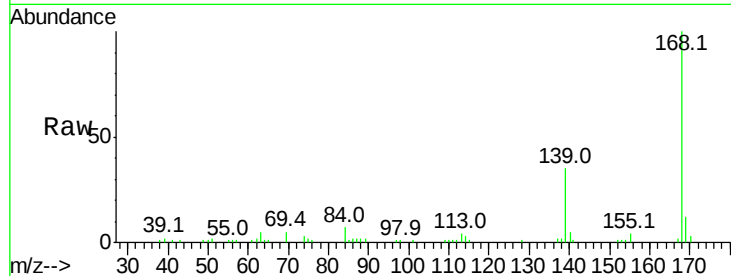
Tot Ion:168 Resp: 80470

Ion Ratio Lower Upper

168 100

139 34.5 30.6 45.8

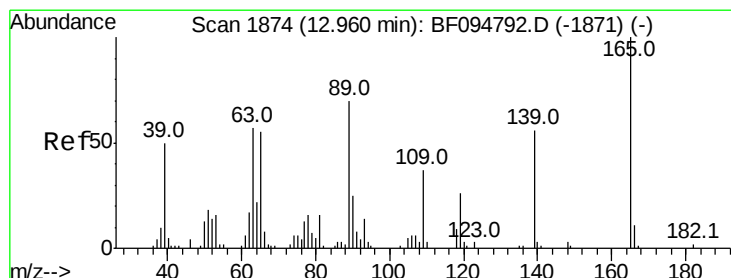
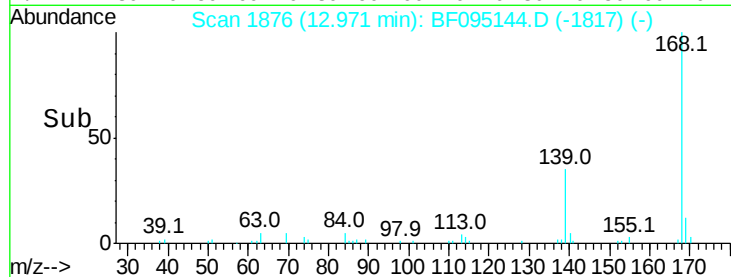
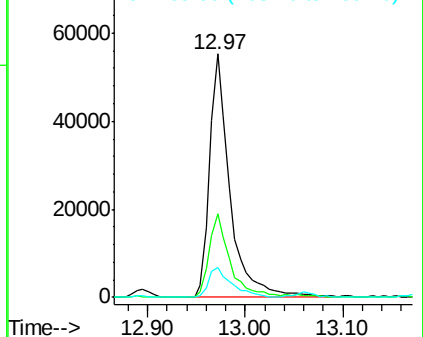
169 12.5 10.8 16.2



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: 21.64 ng

RT: 12.97 min Scan# 1876

Delta R.T. 0.01 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

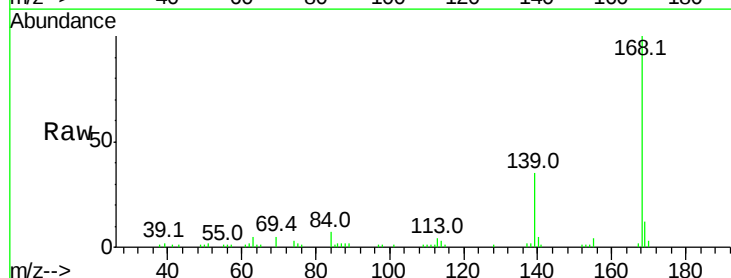
Tgt Ion:139 Resp: 28510

Ion Ratio Lower Upper

139 100

109 1.8 34.1 74.1#

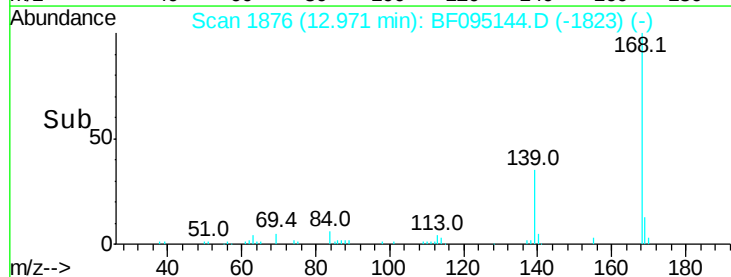
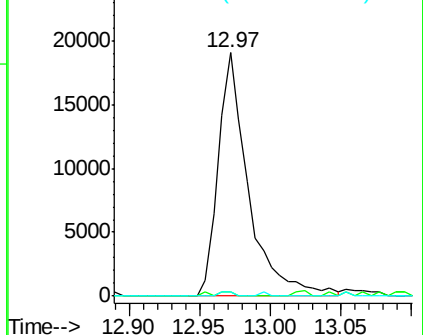
65 1.6 31.4 71.4#

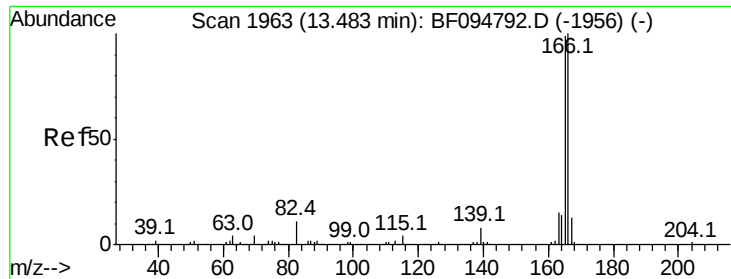


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

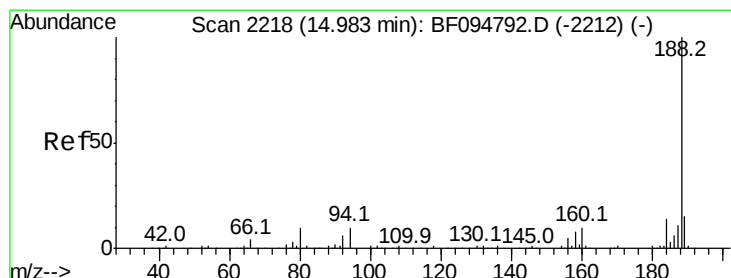
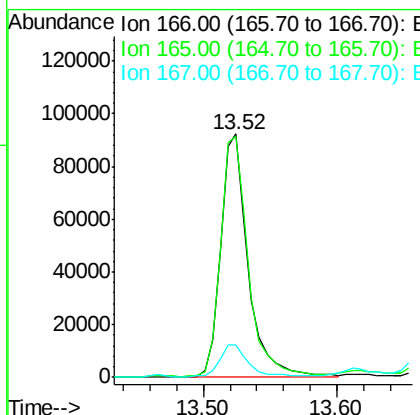
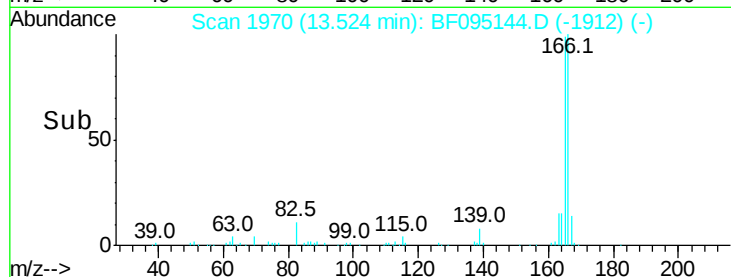
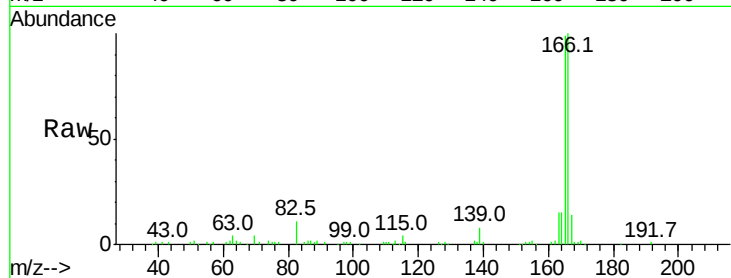




#57
Fluorene
 Concen: 14.29 ng
 RT: 13.52 min Scan# 1970
 Delta R.T. 0.04 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

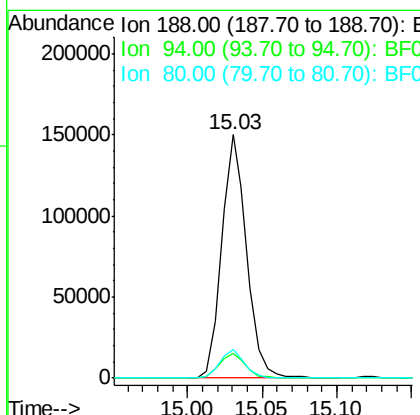
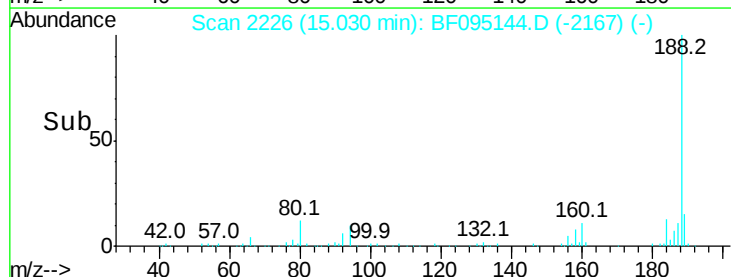
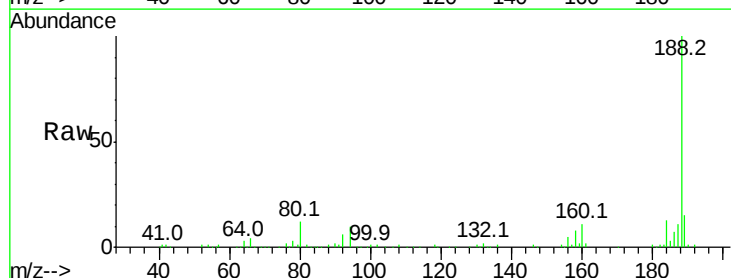
Instrument :
 BNA_F
 ClientSampleId :

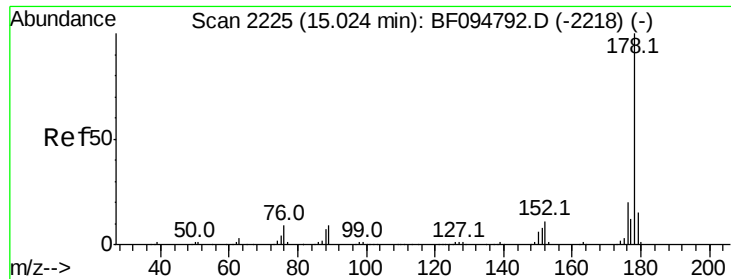
Tot Ion:166 Resp: 133423
 Ion Ratio Lower Upper
 166 100
 165 98.8 78.8 118.2
 167 13.5 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.03 min Scan# 2226
 Delta R.T. 0.05 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Tgt Ion:188 Resp: 176011
 Ion Ratio Lower Upper
 188 100
 94 10.3 9.4 14.2
 80 11.6 10.2 15.2

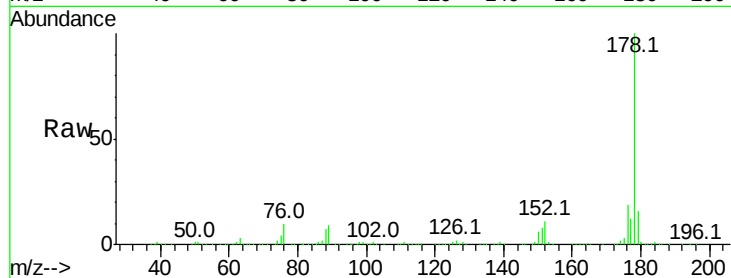




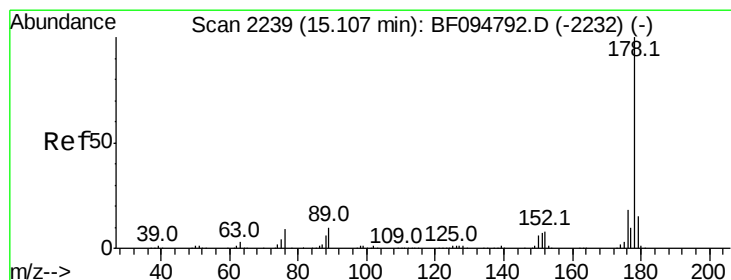
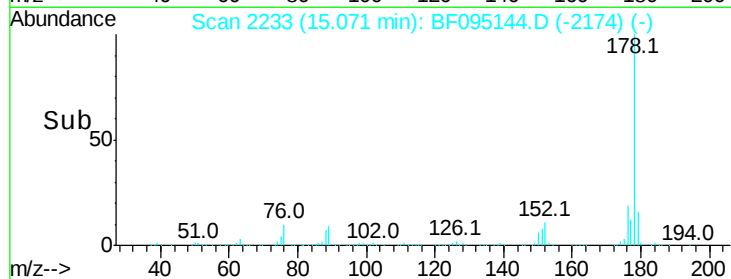
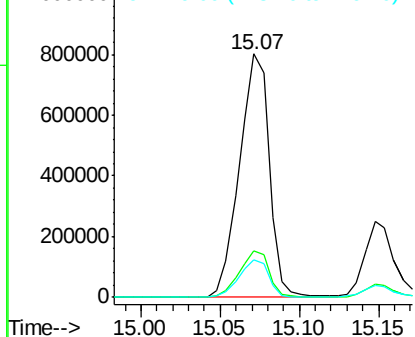
#70
Phenanthrene
Concen: 103.85 ng
RT: 15.07 min Scan# 2233
Delta R.T. 0.05 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 1050220
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 15.5 12.6 19.0

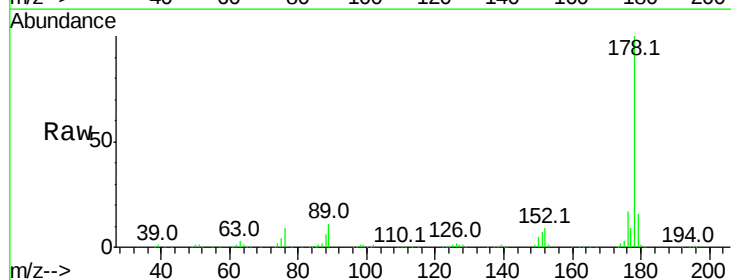


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

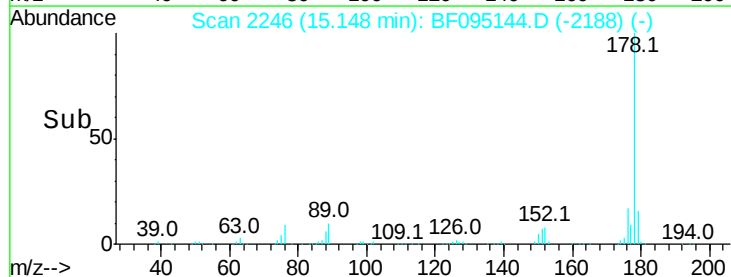
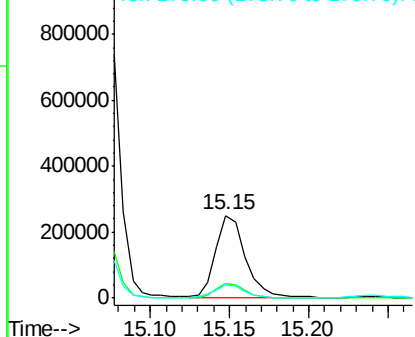


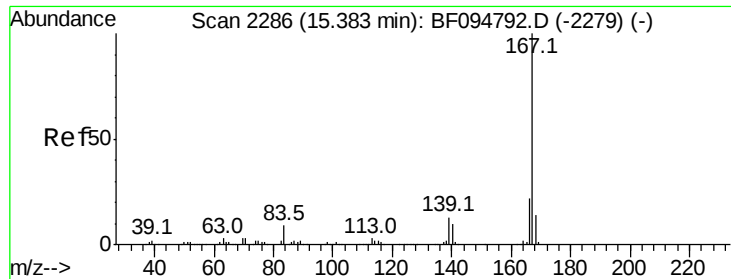
#71
Anthracene
Concen: 31.57 ng
RT: 15.15 min Scan# 2246
Delta R.T. 0.04 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Tgt Ion:178 Resp: 326121
Ion Ratio Lower Upper
178 100
176 17.1 15.8 23.8
179 15.8 12.7 19.1



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





#72

Carbazole

Concen: 8.25 ng

RT: 15.44 min Scan# 2295

Delta R.T. 0.05 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Instrument :

BNA_F

ClientSampleId :

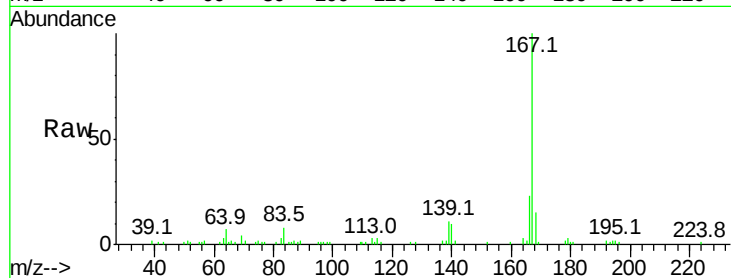
Tot Ion:167 Resp: 77559

Ion Ratio Lower Upper

167 100

166 23.3 18.1 27.1

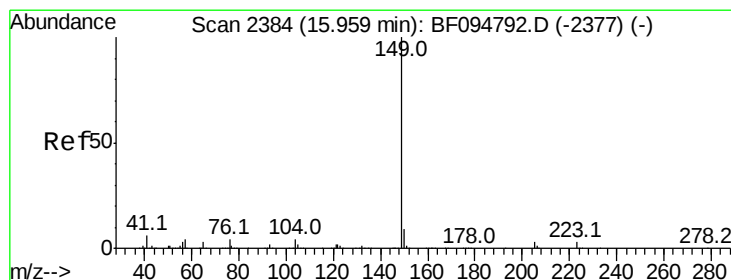
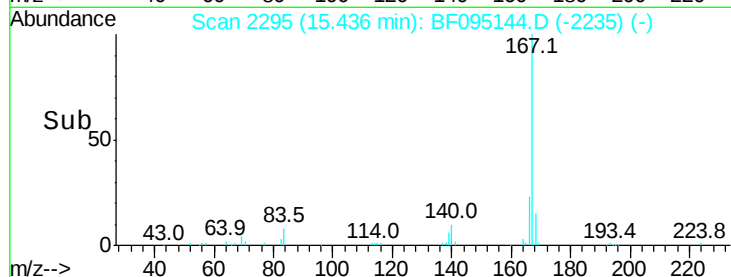
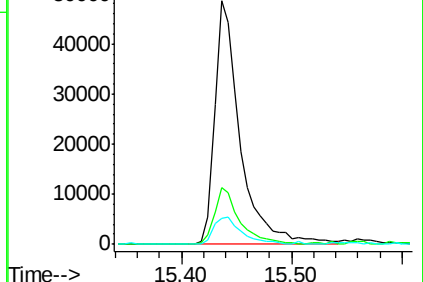
139 10.9 11.7 17.5#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 2.38 ng

RT: 15.99 min Scan# 2389

Delta R.T. 0.03 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

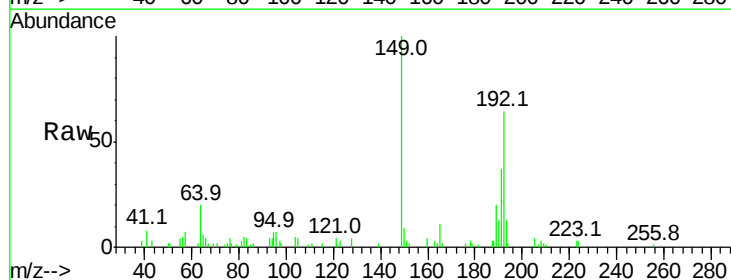
Tgt Ion:149 Resp: 27868

Ion Ratio Lower Upper

149 100

150 9.4 7.7 11.5

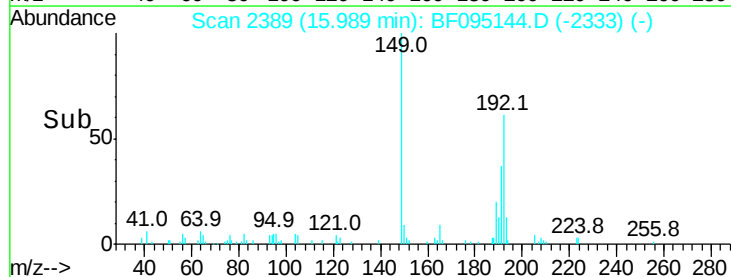
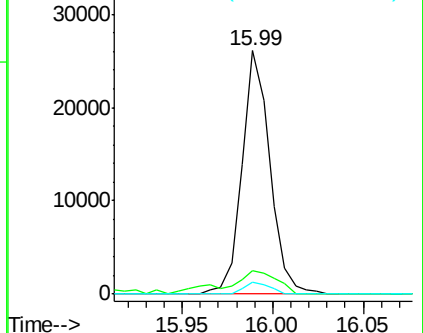
104 5.1 4.0 6.0

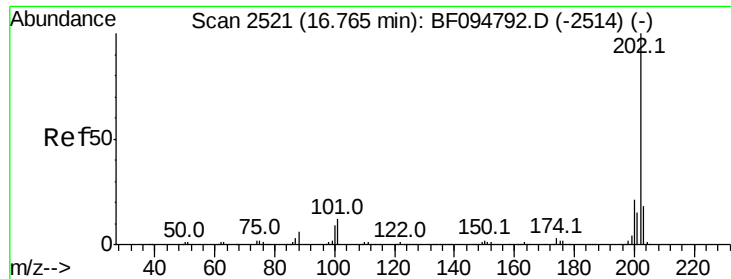


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

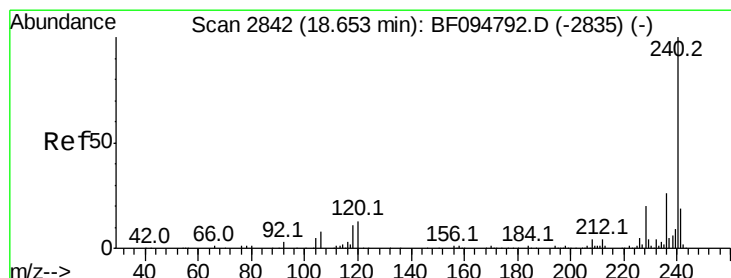
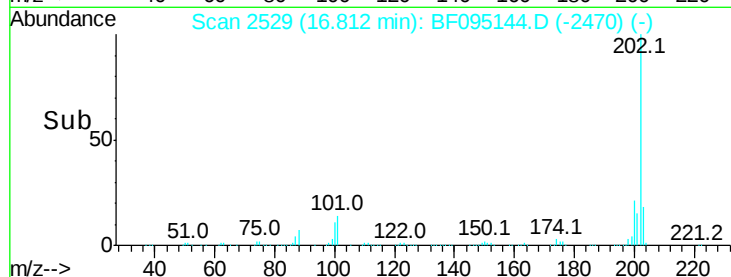
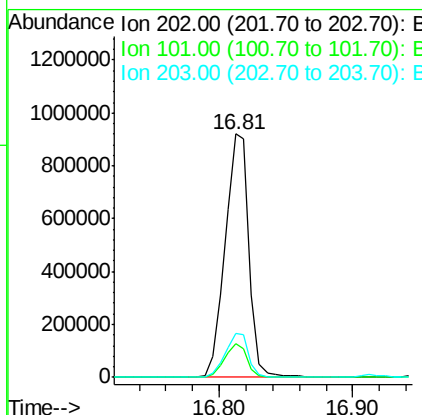
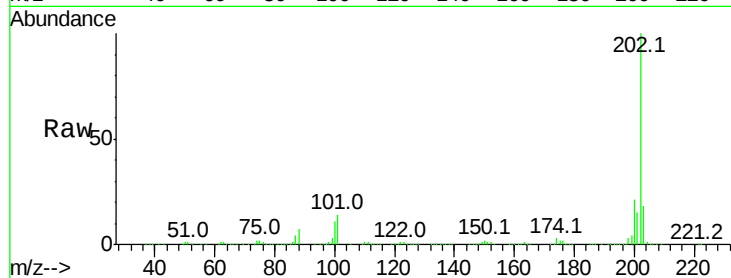




#74
 Fluoranthene
 Concen: 111.58 ng
 RT: 16.81 min Scan# 2529
 Delta R.T. 0.05 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

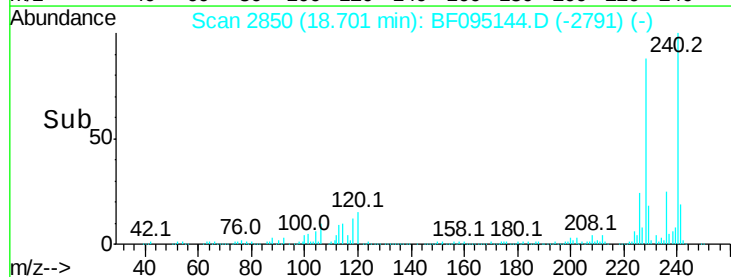
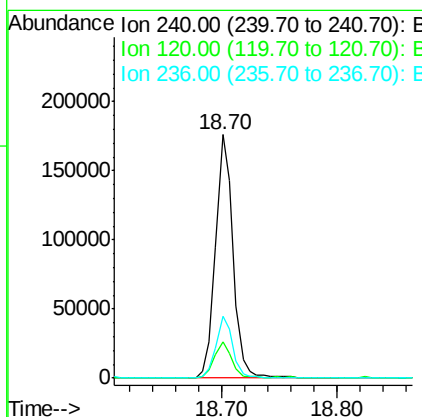
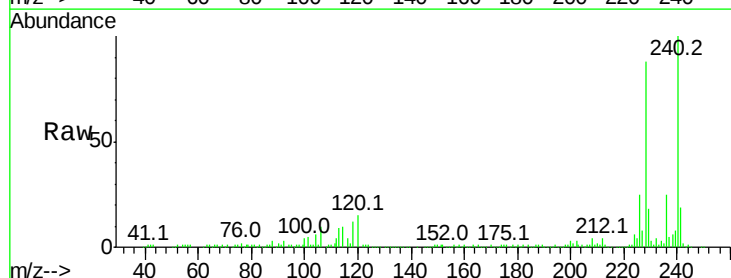
Instrument :
 BNA_F
 ClientSampleId :

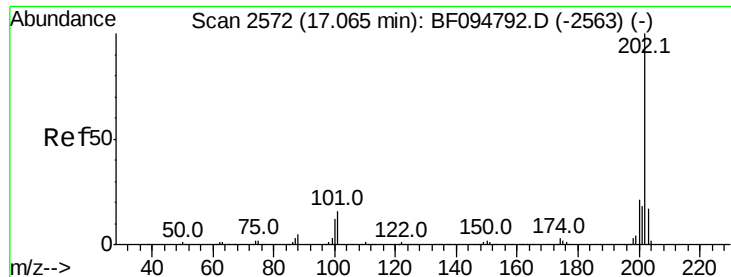
Tot Ion:202 Resp: 1157526
 Ion Ratio Lower Upper
 202 100
 101 14.1 0.0 33.2
 203 18.0 0.0 38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.70 min Scan# 2850
 Delta R.T. 0.05 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Tgt Ion:240 Resp: 186471
 Ion Ratio Lower Upper
 240 100
 120 15.1 5.8 8.8#
 236 25.3 20.5 30.7

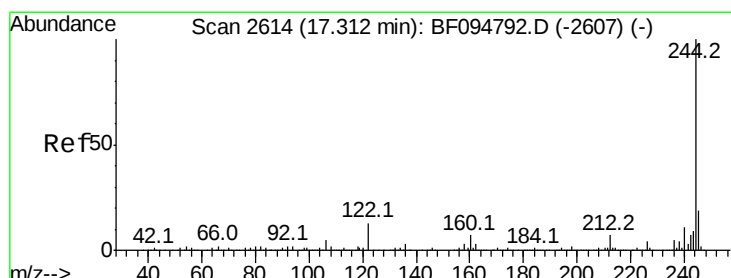
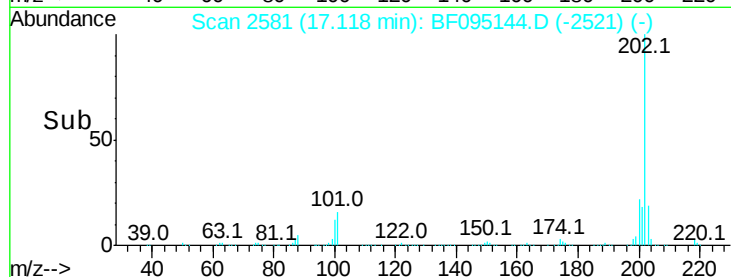
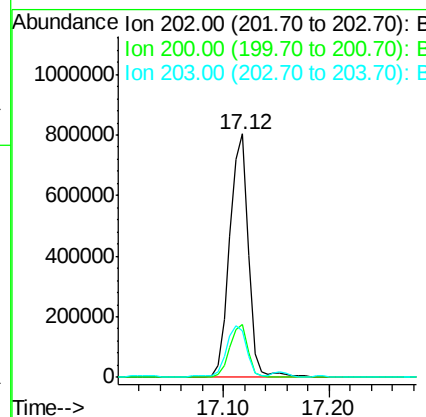
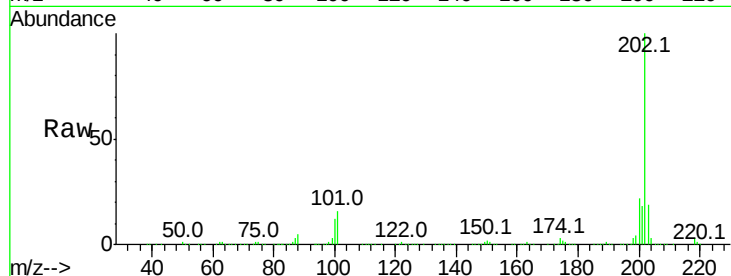




#77
Pvrene
Concen: 70.38 ng
RT: 17.12 min Scan# 2581
Delta R.T. 0.05 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

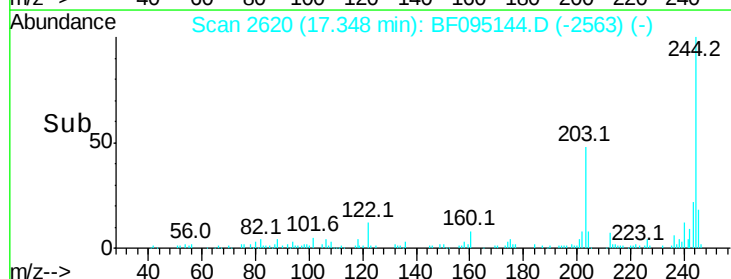
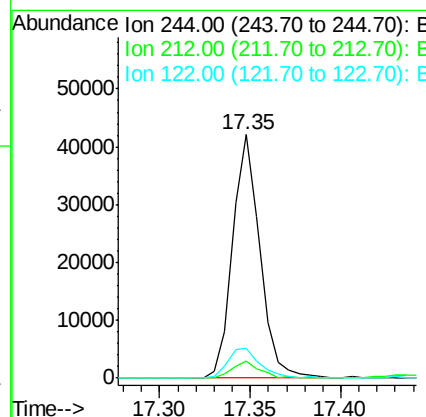
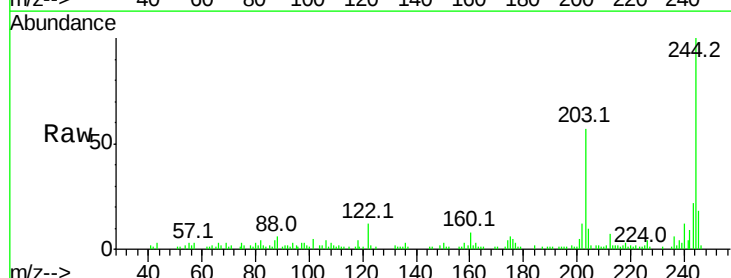
Instrument :
BNA_F
ClientSampleId :

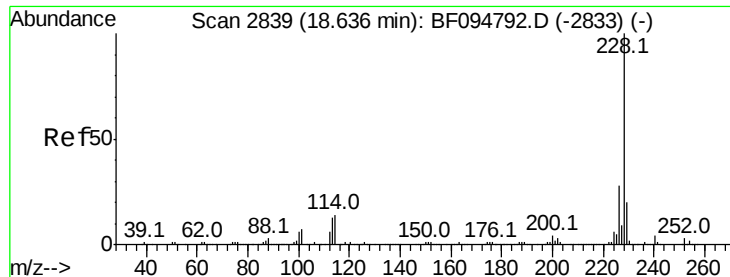
Tot Ion:202 Resp: 981552
Ion Ratio Lower Upper
202 100
200 21.5 17.6 26.4
203 19.3 14.4 21.6



#78
Terphenyl-d14
Concen: 5.22 ng
RT: 17.35 min Scan# 2620
Delta R.T. 0.04 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Tgt Ion:244 Resp: 44210
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 12.5 10.3 15.5





#80

Benzo(a)anthracene

Concen: 47.68 ng

RT: 18.69 min Scan# 2848

Delta R.T. 0.05 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Instrument :

BNA_F

ClientSampleId :

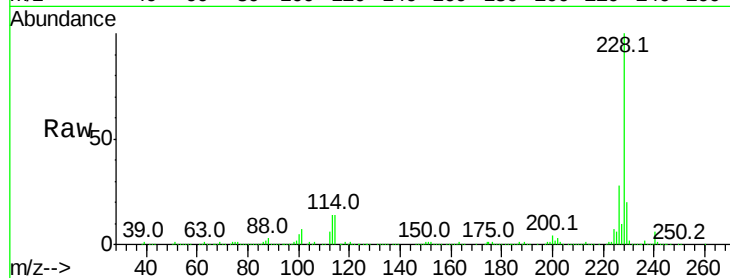
Tot Ion:228 Resp: 517448

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

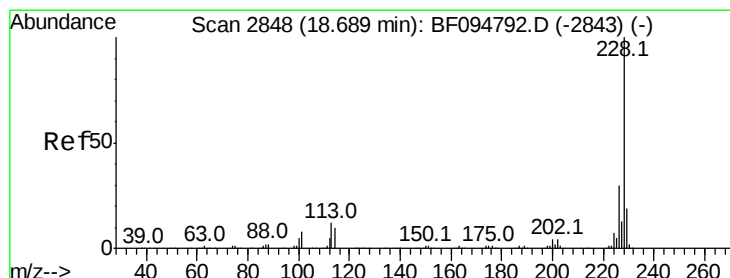
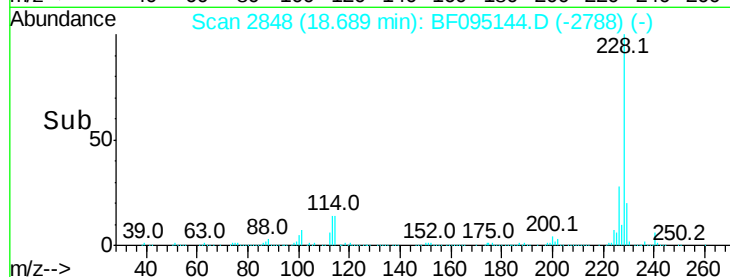
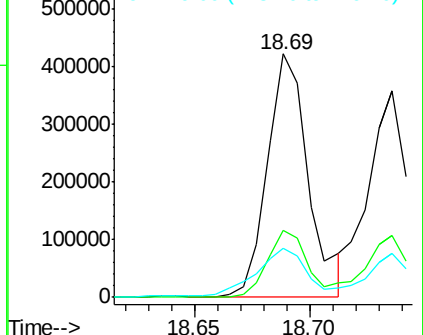
229 20.4 16.3 24.5



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: 40.64 ng

RT: 18.74 min Scan# 2856

Delta R.T. 0.05 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

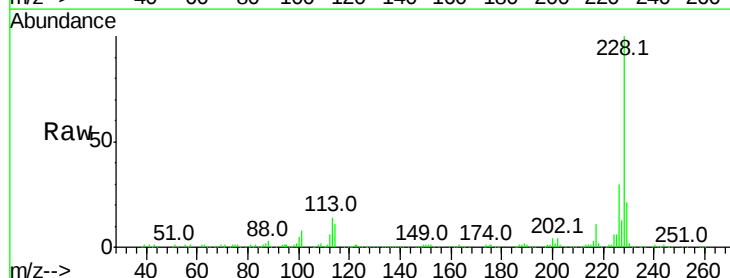
Tgt Ion:228 Resp: 426424

Ion Ratio Lower Upper

228 100

226 29.7 24.9 37.3

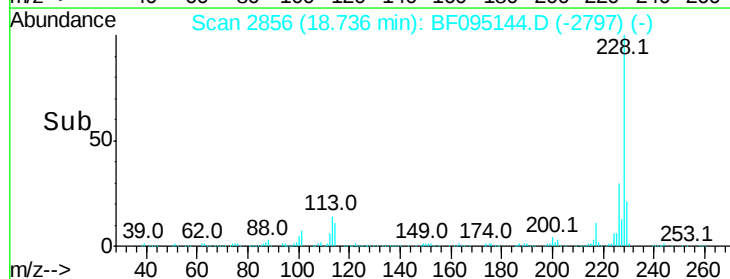
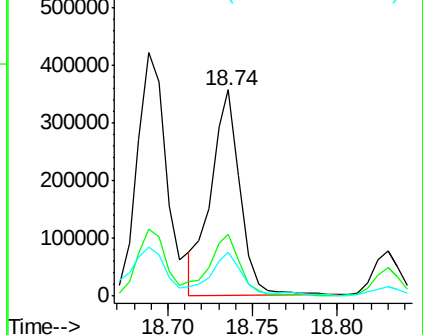
229 21.2 15.8 23.6

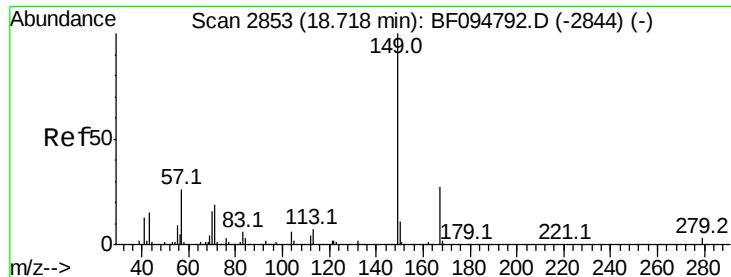


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

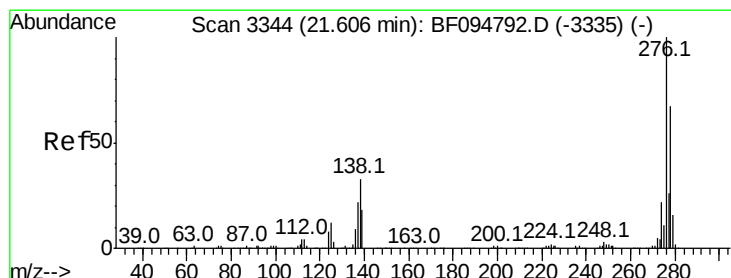
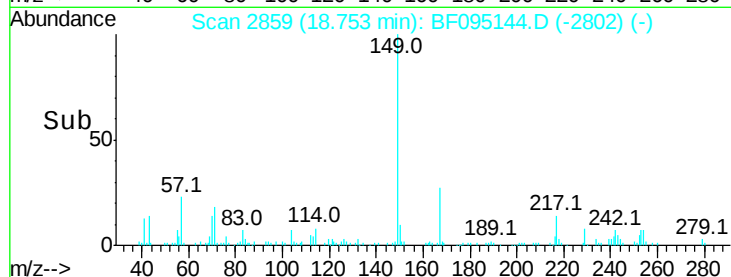
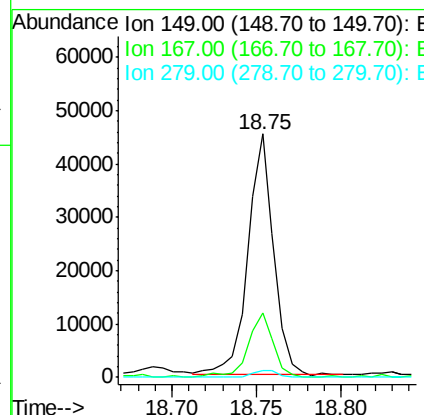
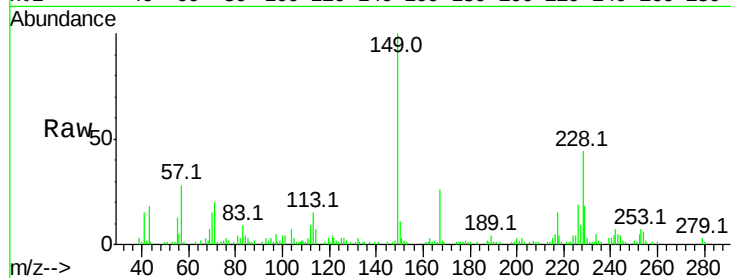




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 5.12 ng
 RT: 18.75 min Scan# 2859
 Delta R.T. 0.04 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

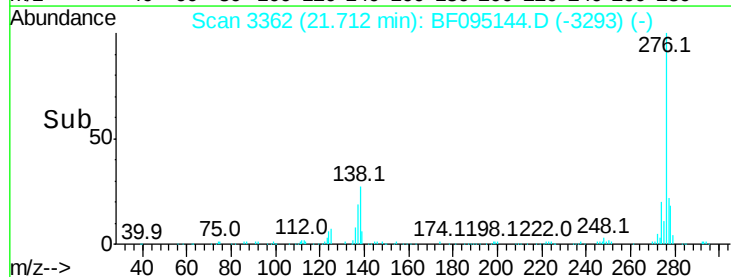
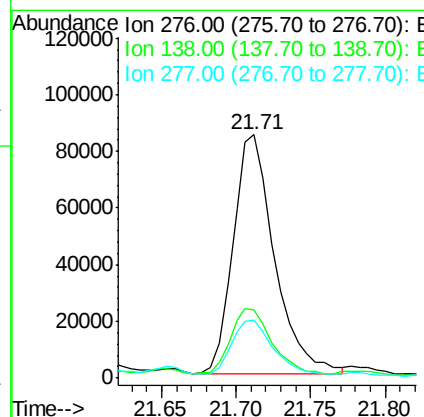
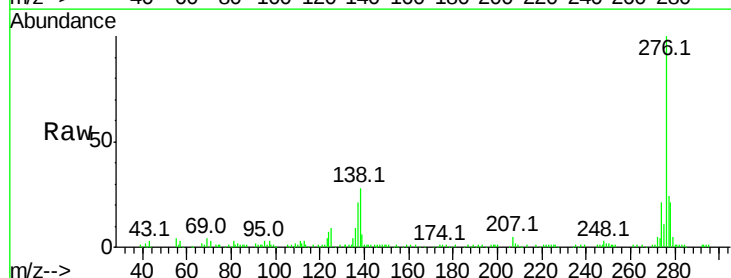
Instrument :
 BNA_F
 ClientSampleId :

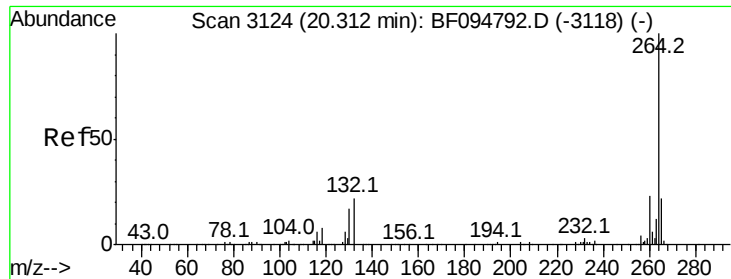
Tot Ion:149 Resp: 47353
 Ion Ratio Lower Upper
 149 100
 167 26.4 21.0 31.4
 279 2.8 1.9 2.9



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.03 ng
 RT: 21.71 min Scan# 3362
 Delta R.T. 0.11 min
 Lab File: BF095144.D
 Acq: 16 May 2017 1:08

Tgt Ion:276 Resp: 162166
 Ion Ratio Lower Upper
 276 100
 138 29.0 27.8 41.6
 277 23.2 20.2 30.4

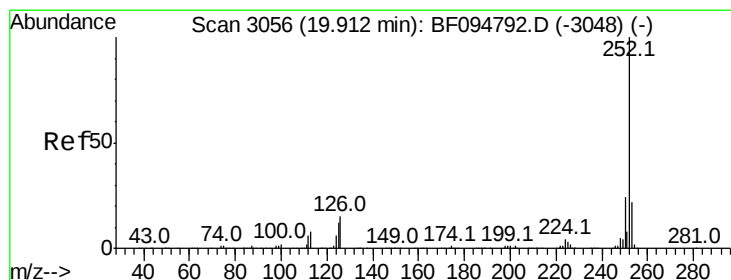
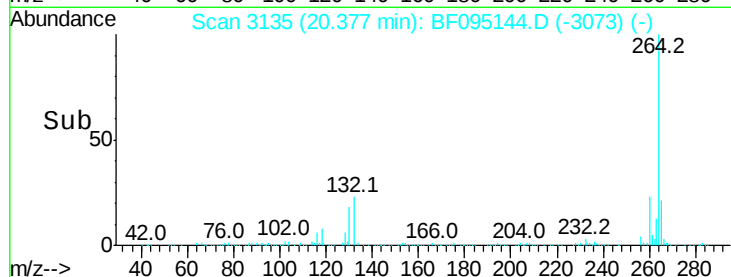
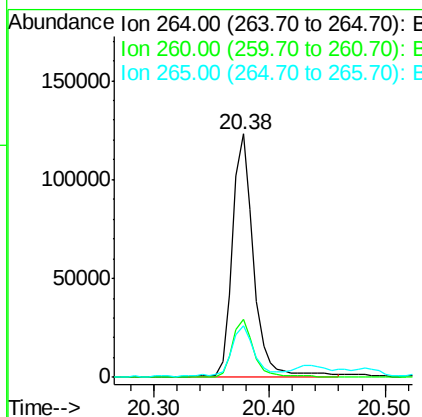
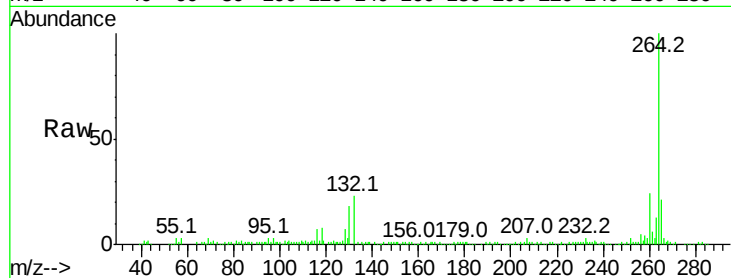




#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.38 min Scan# 3135
Delta R.T. 0.06 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

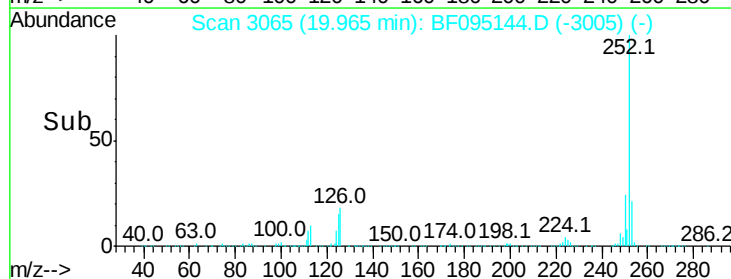
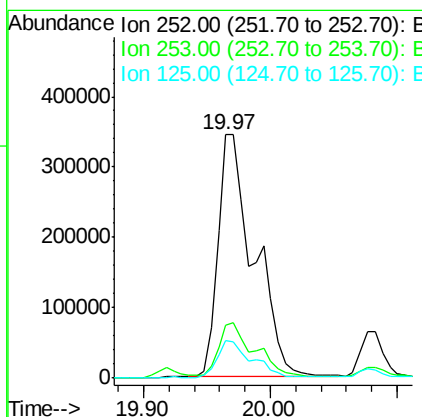
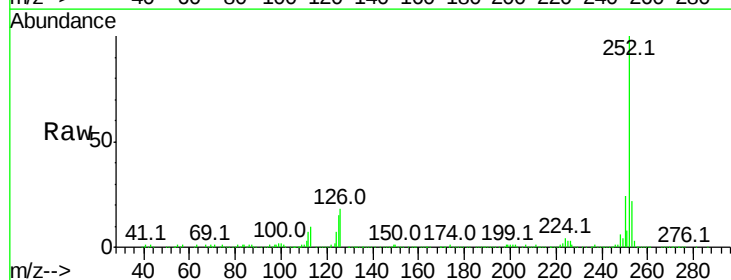
Instrument :
BNA_F
ClientSampleId :

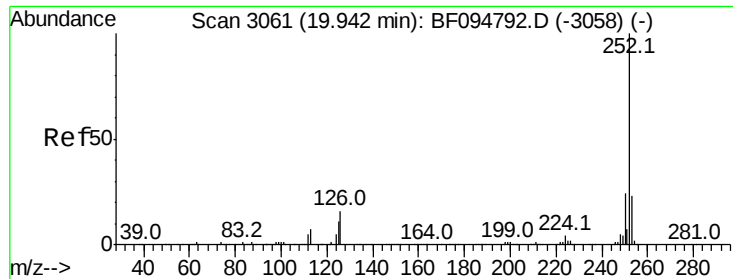
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	21.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 70.61 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.05 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.1	27.1
125	15.3	9.8	14.8#

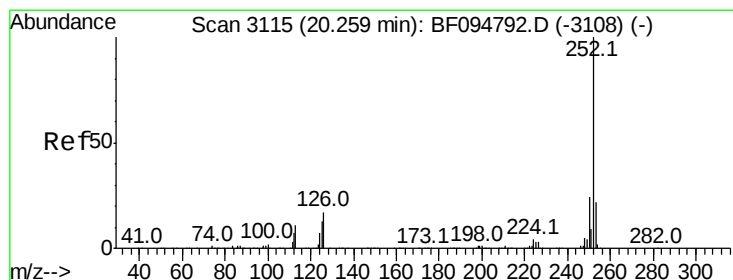
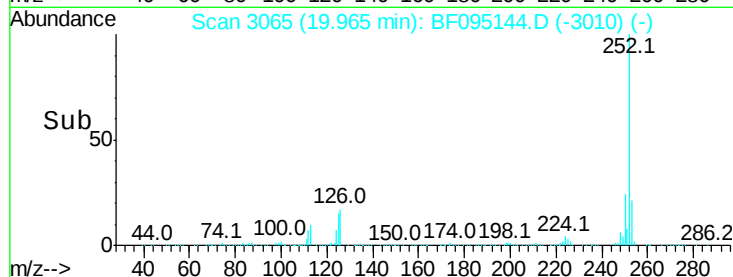
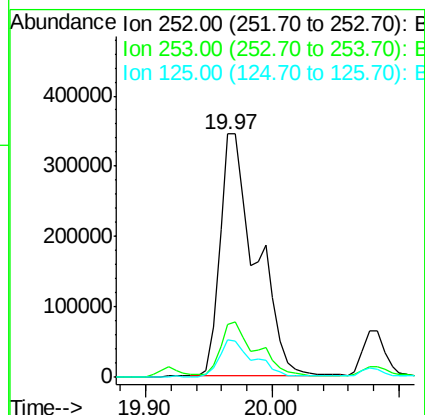
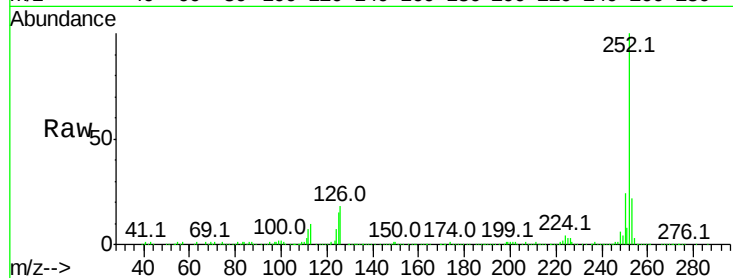




#88
Benzo(k)fluoranthene
Concen: 73.20 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.02 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

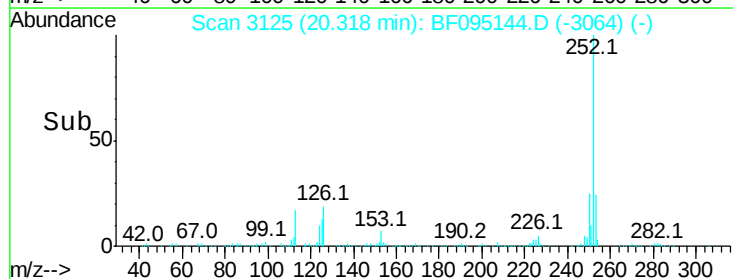
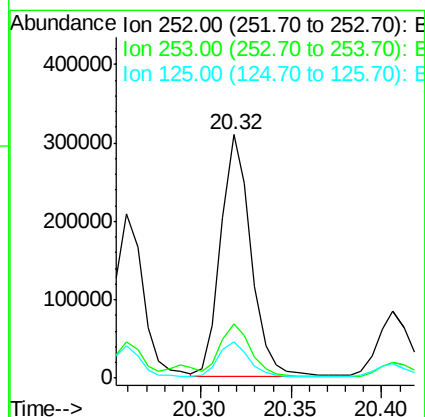
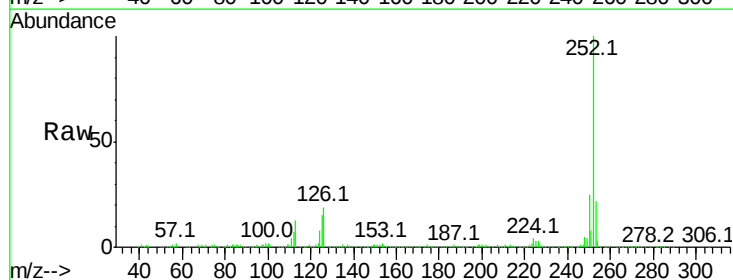
Instrument :
BNA_F
ClientSampleId :

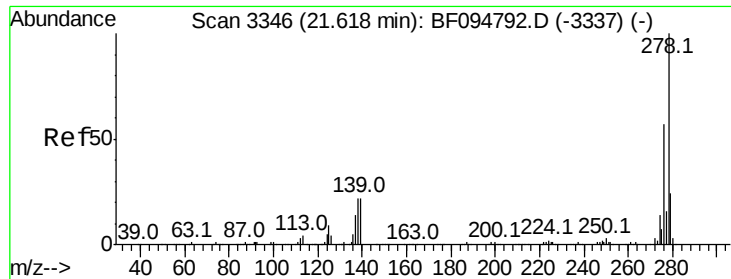
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.4	27.6
125	15.3	13.1	19.7



#89
Benzo(a)pyrene
Concen: 40.36 ng
RT: 20.32 min Scan# 3125
Delta R.T. 0.06 min
Lab File: BF095144.D
Acq: 16 May 2017 1:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	15.0	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.91 ng

RT: 21.87 min Scan# 3388

Delta R.T. 0.25 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

Instrument :

BNA_F

ClientSampled :

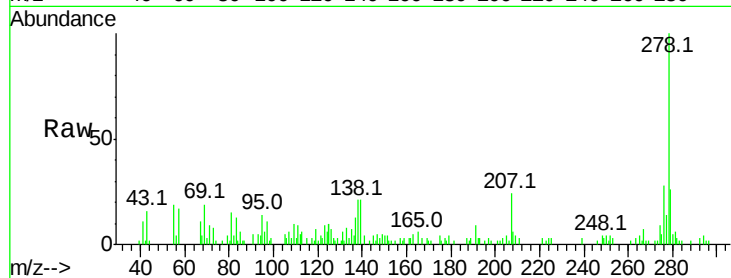
Tot Ion:278 Resp: 28990

Ion Ratio Lower Upper

278 100

139 20.7 16.6 24.8

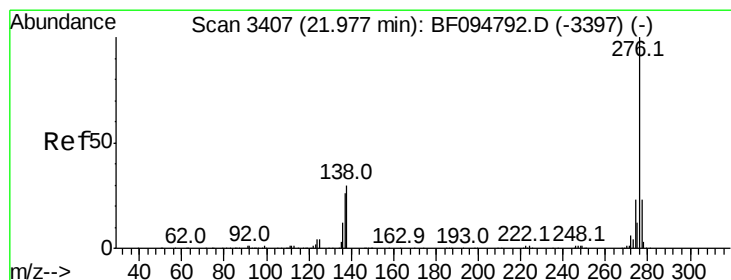
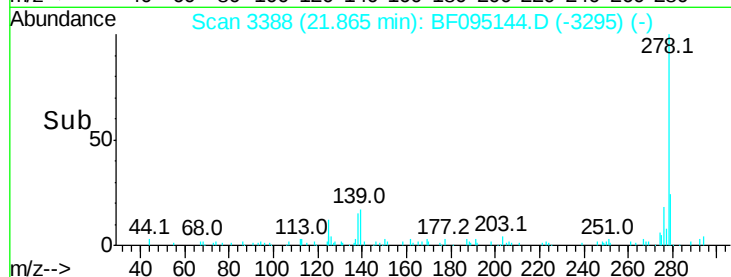
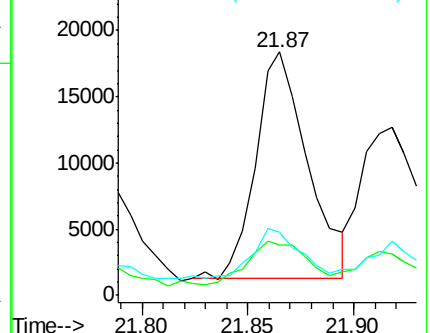
279 25.8 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 20.99 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.12 min

Lab File: BF095144.D

Acq: 16 May 2017 1:08

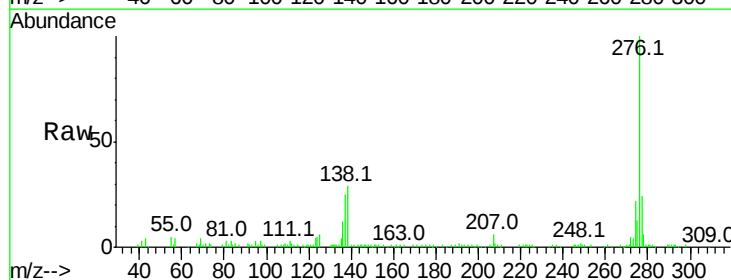
Tgt Ion:276 Resp: 152793

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 29.2 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

