

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060916\
 Data File : BF087846.D
 Acq On : 9 Jun 2016 12:13
 Operator : UM/SJ
 Sample : H3378-01DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SS-14DL

Quant Time: Jun 09 16:24:02 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 18:51:55 2016
 Response via : Initial Calibration

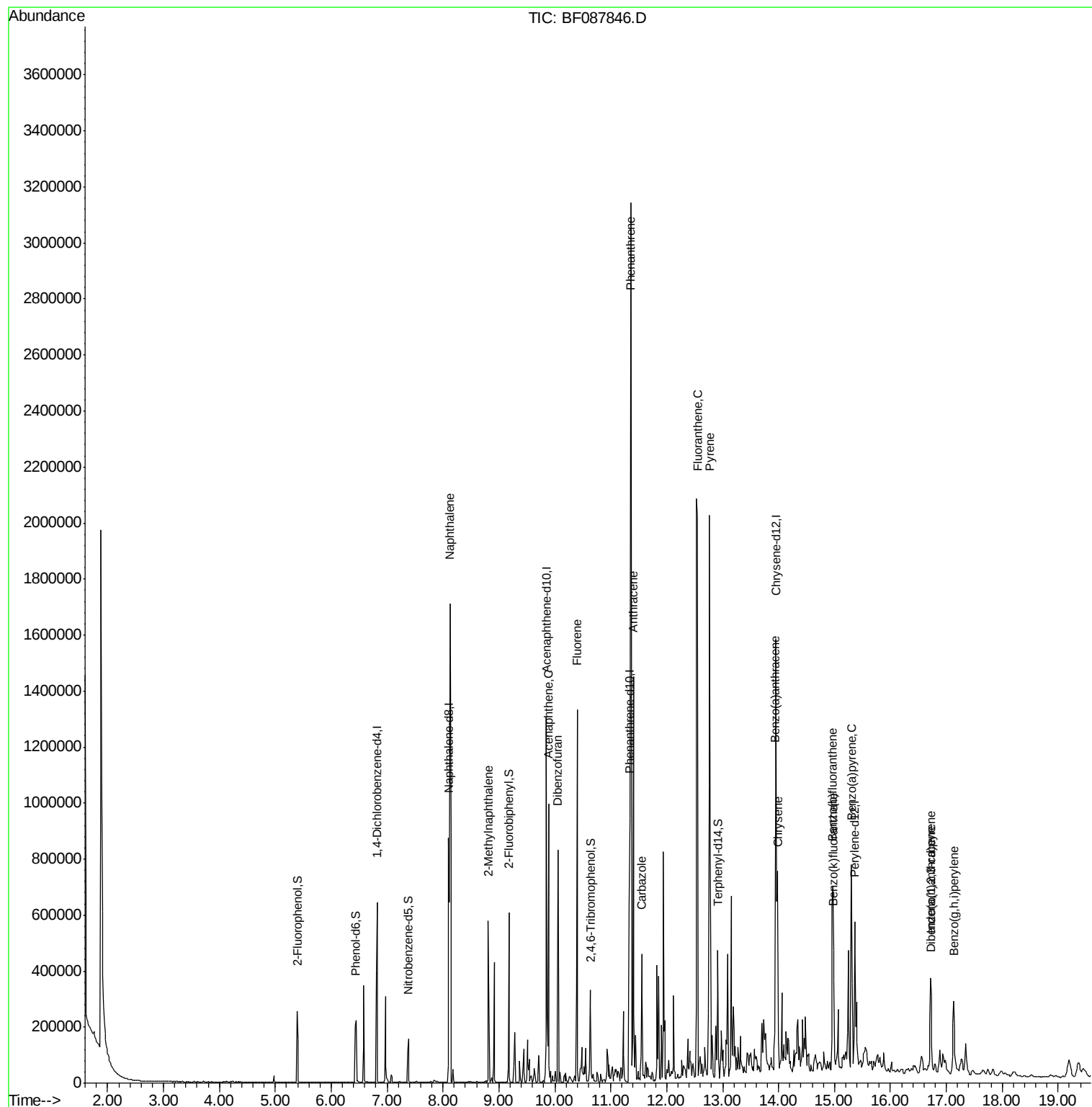
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	126391	20.00	ng	-0.02
21) Naphthalene-d8	8.10	136	516156	20.00	ng	-0.02
38) Acenaphthene-d10	9.85	164	240625	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	441142	20.00	ng	-0.02
75) Chrysene-d12	13.95	240	274299	20.00	ng	-0.03
86) Perylene-d12	15.36	264	266561	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	89041	12.04	ng	-0.03
7) Phenol-d6	6.44	99	115240	12.86	ng	-0.03
23) Nitrobenzene-d5	7.38	82	66206	7.49	ng	-0.03
41) 2,4,6-Tribromophenol	10.64	330	27372	10.77	ng	-0.03
44) 2-Fluorobiphenyl	9.18	172	167820	5.80	ng	-0.03
78) Terphenyl-d14	12.91	244	129716	10.76	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	8.12	128	952025	37.27	ng	100
37) 2-Methylnaphthalene	8.81	142	186042m	11.05	ng	
51) Acenaphthene	9.88	154	200175	12.96	ng	100
54) Dibenzofuran	10.06	168	297470	13.98	ng	95
57) Fluorene	10.40	166	365816	23.09	ng	98
70) Phenanthrene	11.36	178	1280080	55.30	ng	99
71) Anthracene	11.41	178	542369	23.23	ng	99
72) Carbazole	11.55	167	237984	10.89	ng	99
74) Fluoranthene	12.55	202	1301623	53.28	ng	94
77) Pyrene	12.77	202	987673	48.52	ng	98
80) Benzo(a)anthracene	13.94	228	506268	32.39	ng	99
82) Chrysene	13.99	228	353572m	24.04	ng	
85) Indeno(1,2,3-cd)pyrene	16.72	276	234393m	17.16	ng	
87) Benzo(b)fluoranthene	14.97	252	454191m	24.45	ng	
88) Benzo(k)fluoranthene	14.98	252	109336m	7.80	ng	
89) Benzo(a)pyrene	15.30	252	321884	21.41	ng	98
90) Dibenzo(a,h)anthracene	16.73	278	54484m	3.90	ng	
91) Benzo(g,h,i)perylene	17.13	276	193585	13.48	ng	97

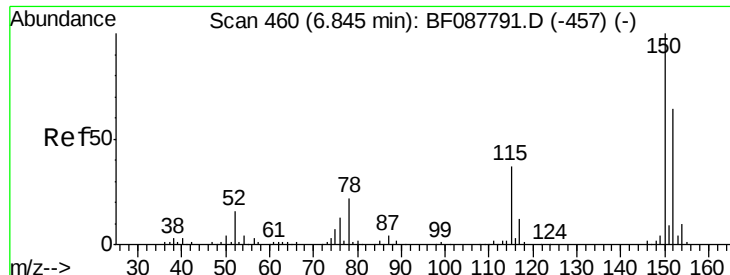
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 458

Delta R.T. -0.02 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampled :

SS-14DL

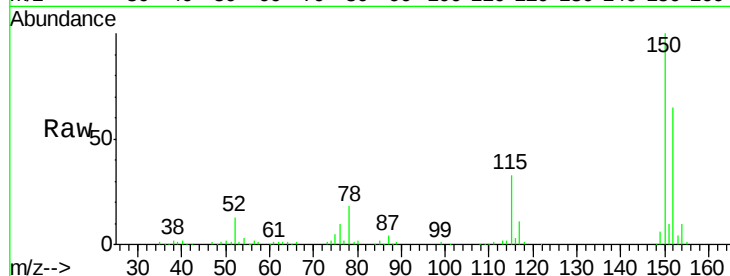
Tot Ion:152 Resp: 126391

Ion Ratio Lower Upper

152 100

150 153.3 123.8 185.6

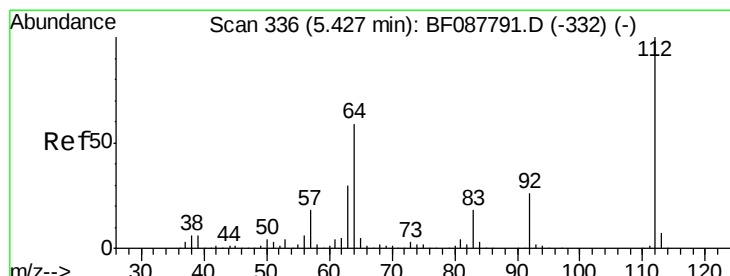
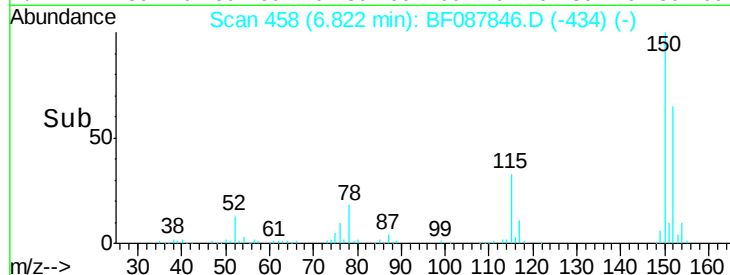
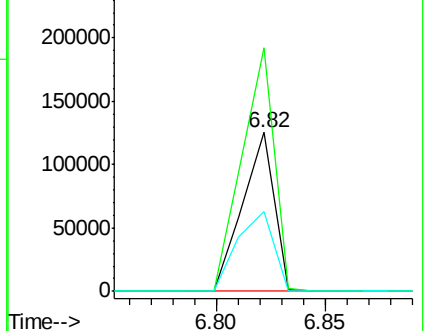
115 50.6 39.6 59.4



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: 12.04 ng

RT: 5.39 min Scan# 333

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

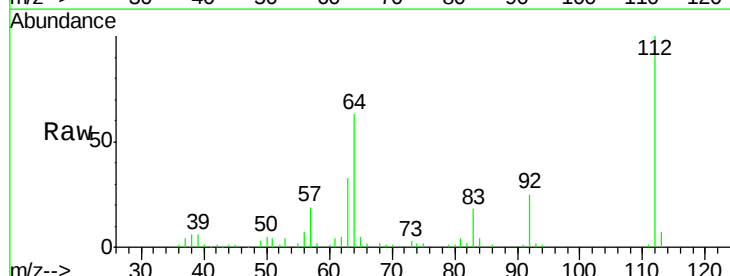
Tgt Ion:112 Resp: 89041

Ion Ratio Lower Upper

112 100

64 62.8 42.2 63.2

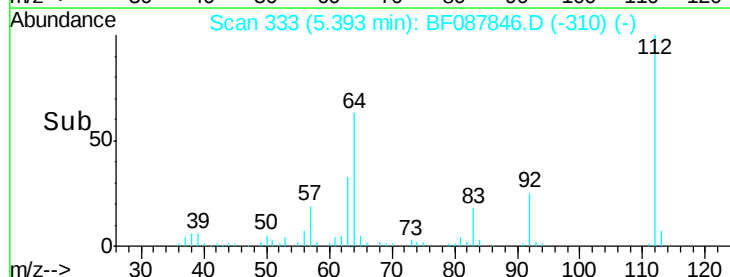
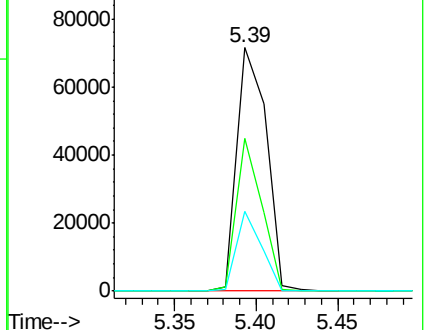
63 32.6 21.8 32.8



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: 12.86 ng

RT: 6.44 min Scan# 425

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

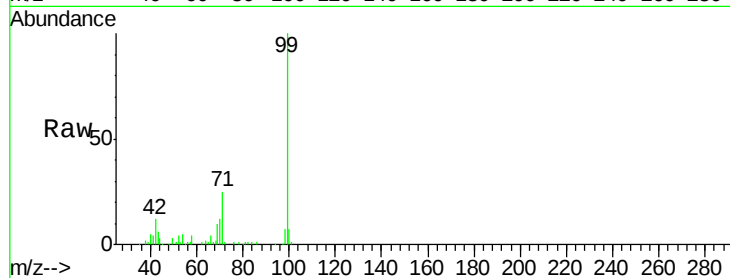
Tot Ion: 99 Resp: 115240

Ion Ratio Lower Upper

99 100

42 11.9 12.2 18.2#

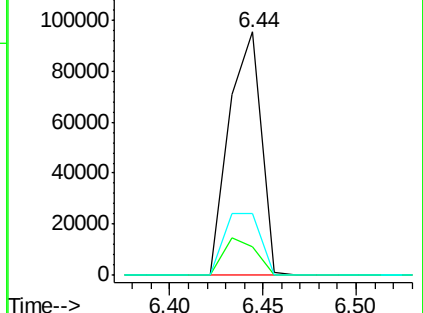
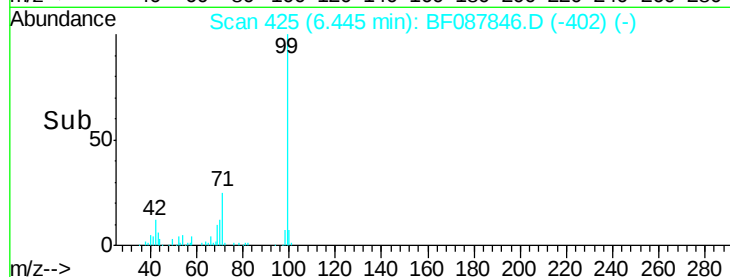
71 25.3 23.4 35.0



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: 8.10 min Scan# 570

Delta R.T. -0.02 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Tgt Ion: 136 Resp: 516156

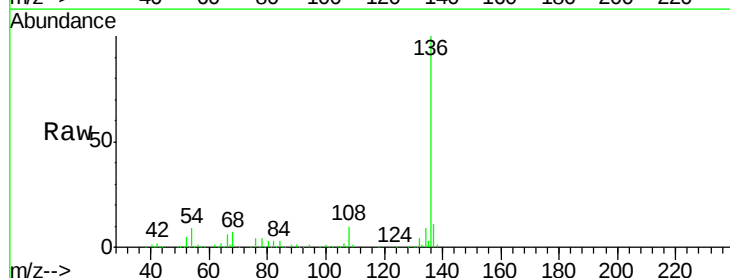
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 8.8 6.6 10.0

68 7.0 5.1 7.7

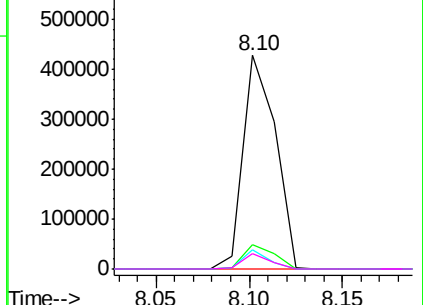
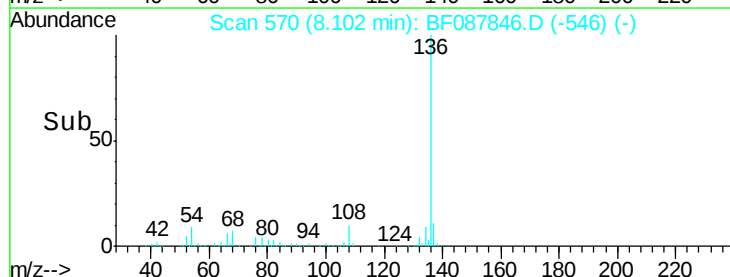


Abundance Ion 136.00 (135.70 to 136.70): E

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

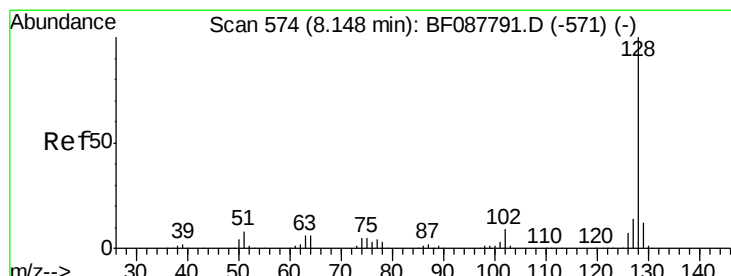
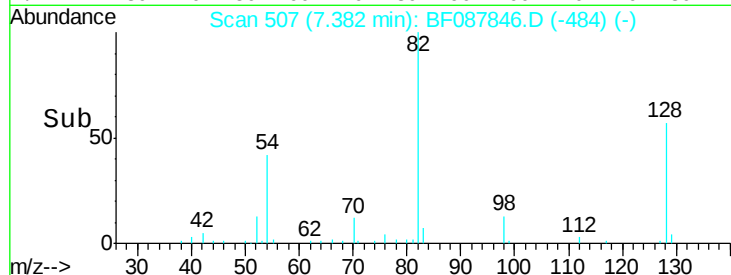
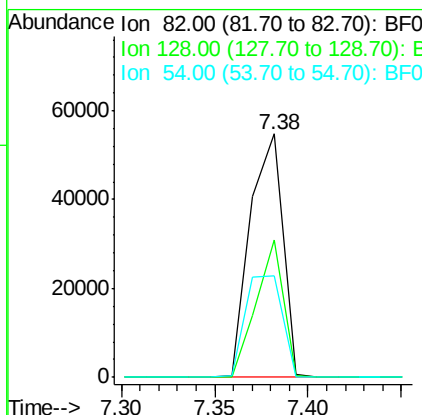
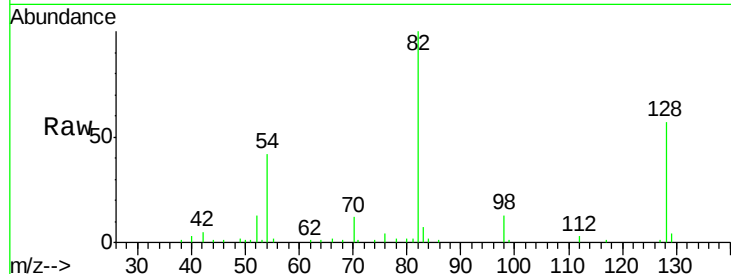




#23
 Nitrobenzene-d5
 Concen: 7.49 ng
 RT: 7.38 min Scan# 507
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

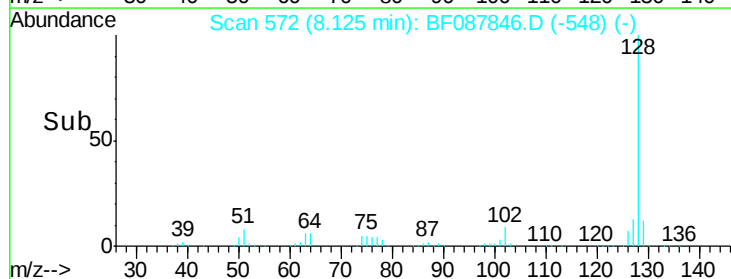
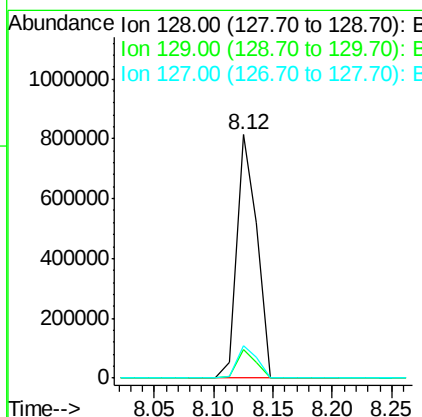
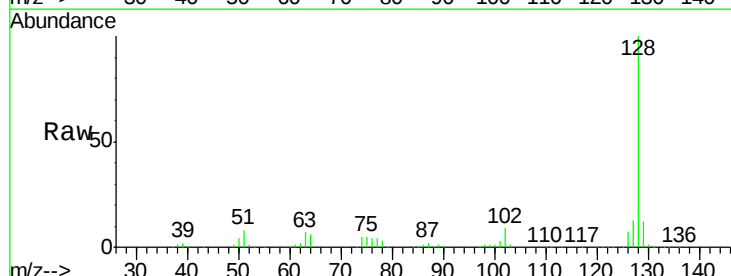
Instrument :
 BNA_F
 ClientSampleId :
 SS-14DL

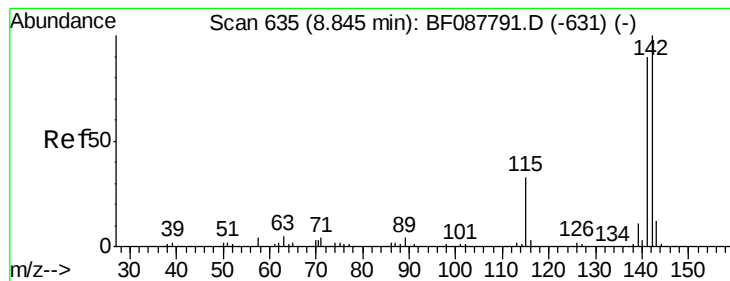
Tot Ion: 82 Resp: 66206
 Ion Ratio Lower Upper
 82 100
 128 56.6 35.9 53.9#
 54 41.7 40.9 61.3



#31
 Naphthalene
 Concen: 37.27 ng
 RT: 8.12 min Scan# 572
 Delta R.T. -0.02 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Tgt Ion: 128 Resp: 952025
 Ion Ratio Lower Upper
 128 100
 129 11.8 9.4 14.2
 127 13.4 10.9 16.3





#37

2-Methylnaphthalene

Concen: 11.05 ng/mL

RT: 8.81 min Scan# 632

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleID :

SS-14DL

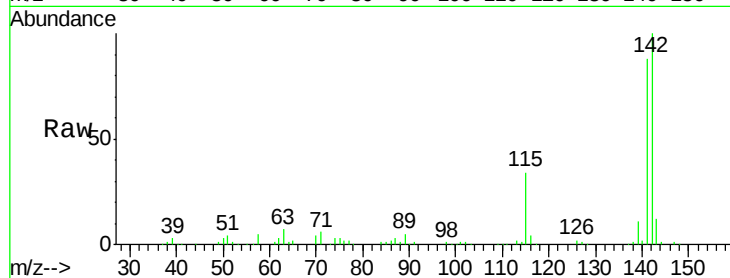
Tot Ion:142 Resp: 186042

Ion Ratio Lower Upper

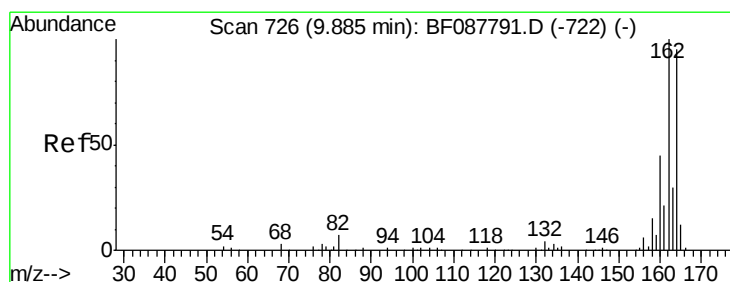
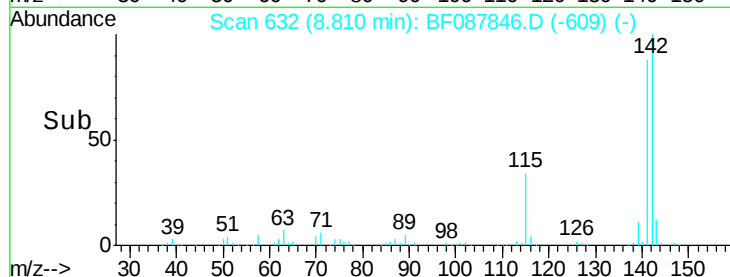
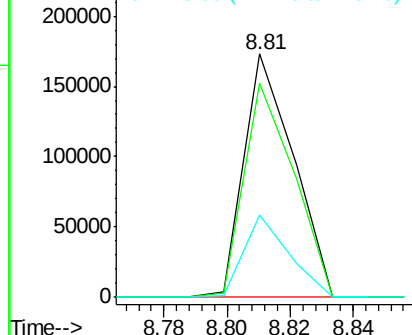
142 100

141 87.8 71.0 106.6

115 33.9 22.6 33.8#



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/mL

RT: 9.85 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

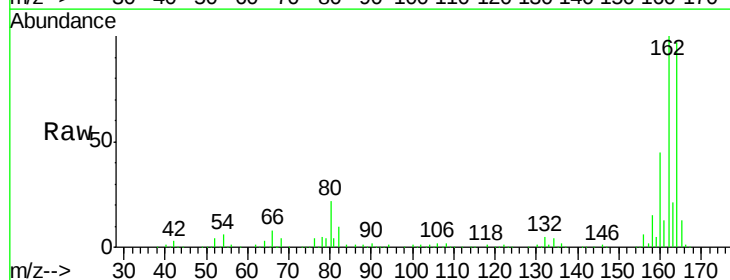
Tgt Ion:164 Resp: 240625

Ion Ratio Lower Upper

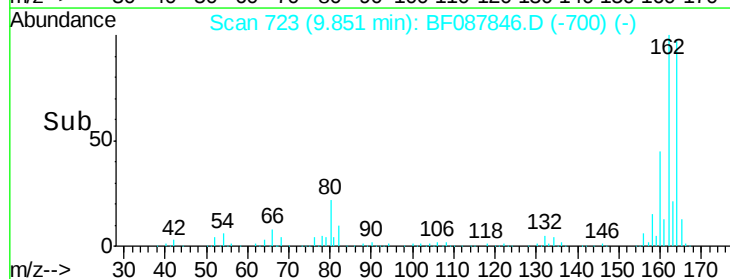
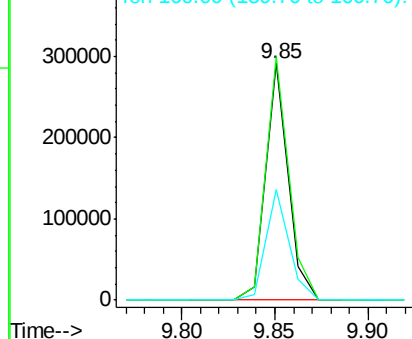
164 100

162 102.9 85.4 128.2

160 46.6 39.5 59.3



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

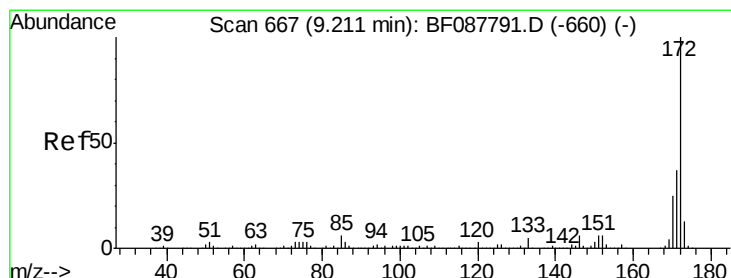
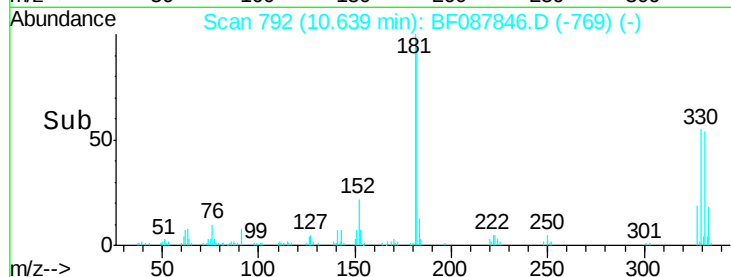
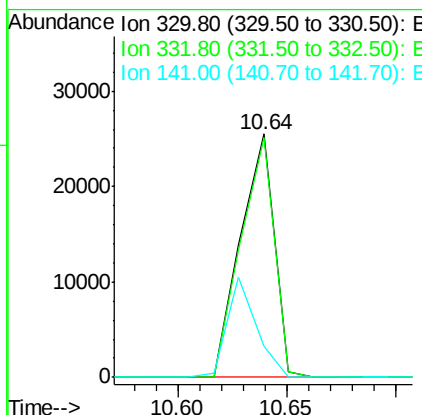
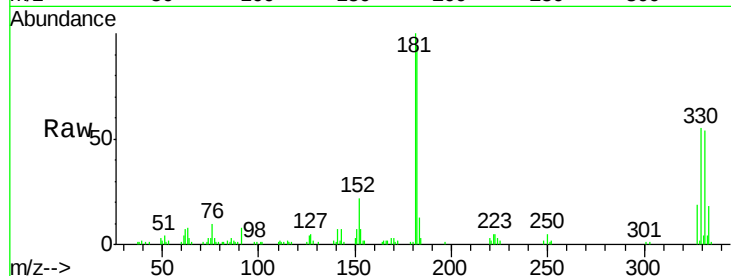




#41
 2,4,6-Tribromophenol
 Concen: 10.77 ng
 RT: 10.64 min Scan# 792
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

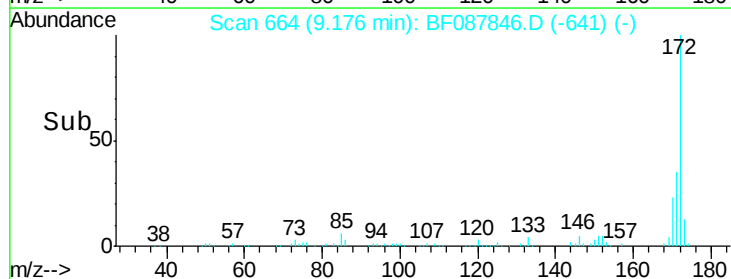
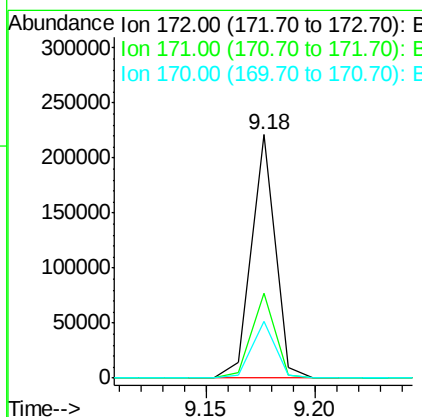
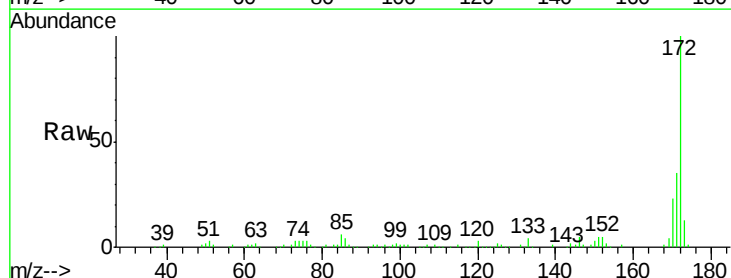
Instrument :
 BNA_F
 ClientSampleId :
 SS-14DL

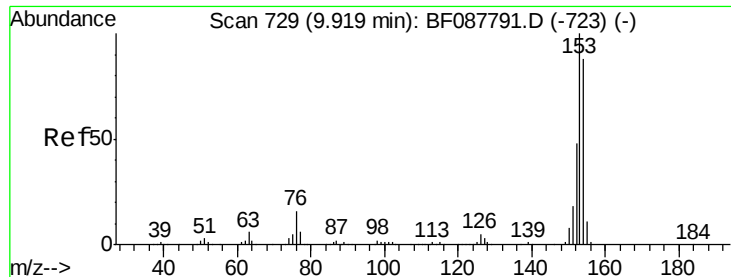
Tot Ion:330 Resp: 27372
 Ion Ratio Lower Upper
 330 100
 332 97.8 0.0 0.0#
 141 35.7 0.0 0.0#



#44
 2-Fluorobiphenyl
 Concen: 5.80 ng
 RT: 9.18 min Scan# 664
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Tgt Ion:172 Resp: 167820
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.6 43.0
 170 23.3 19.2 28.8





#51

Acenaphthene

Concen: 12.96 ng

RT: 9.88 min Scan# 726

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

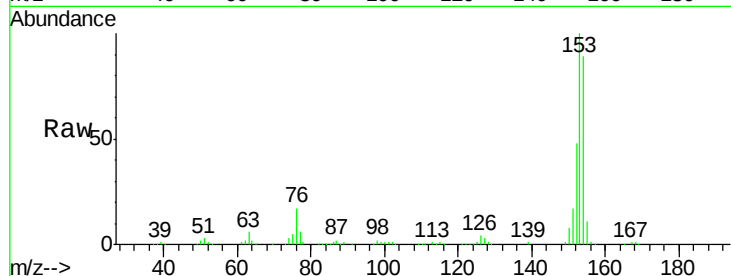
Tot Ion:154 Resp: 200175

Ion Ratio Lower Upper

154 100

153 112.3 89.5 134.3

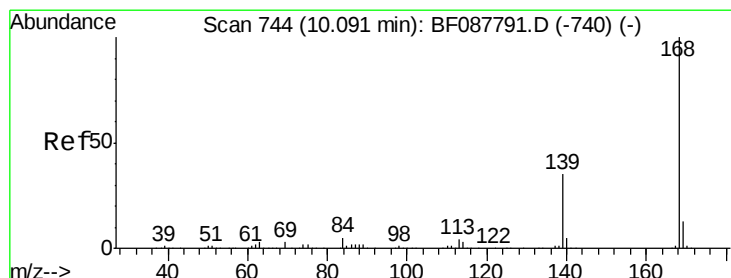
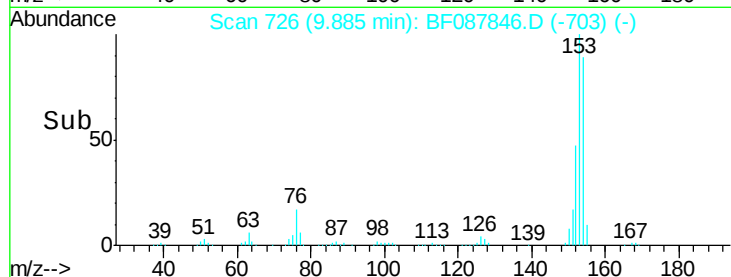
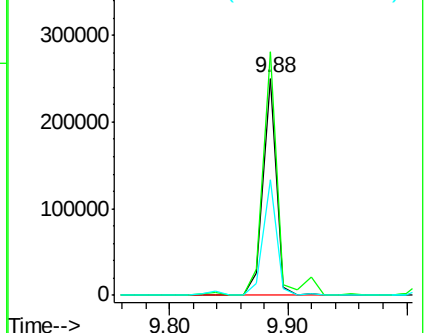
152 53.4 42.7 64.1



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: 13.98 ng

RT: 10.06 min Scan# 741

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

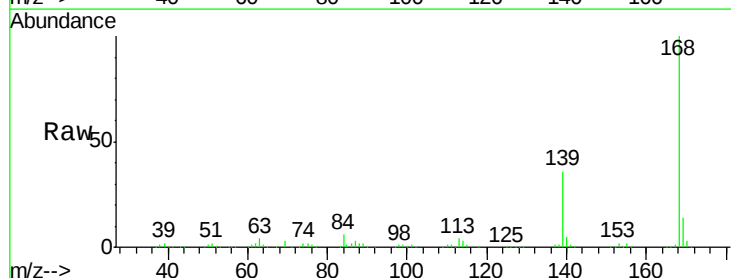
Tgt Ion:168 Resp: 297470

Ion Ratio Lower Upper

168 100

139 36.5 26.4 39.6

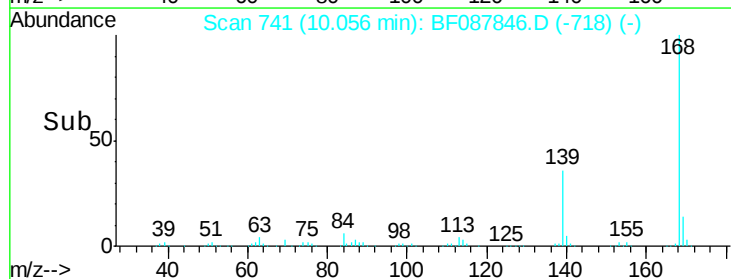
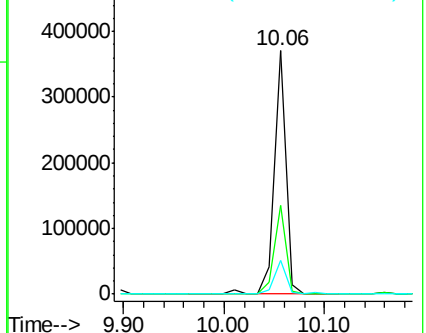
169 13.7 10.4 15.6

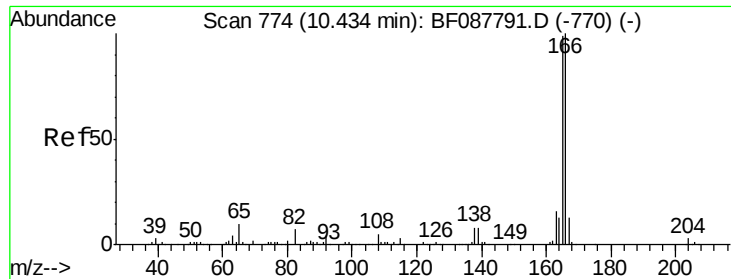


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

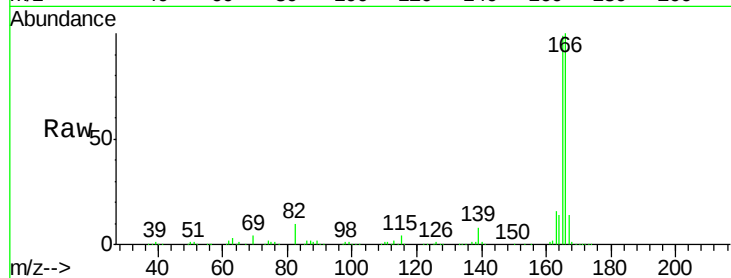




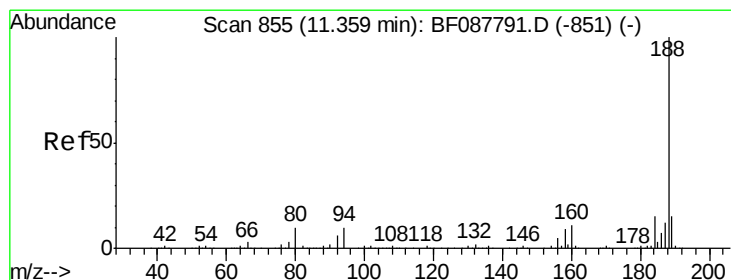
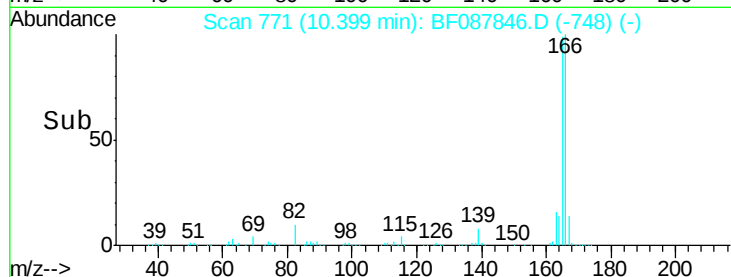
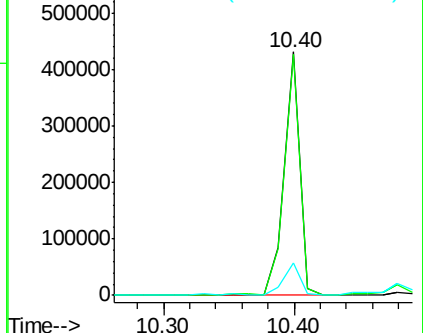
#57
 Fluorene
 Concen: 23.09 ng
 RT: 10.40 min Scan# 771
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Instrument :
 BNA_F
 ClientSampleId :
 SS-14DL

Tot Ion:166 Resp: 365816
 Ion Ratio Lower Upper
 166 100
 165 99.1 77.8 116.8
 167 13.5 11.2 16.8

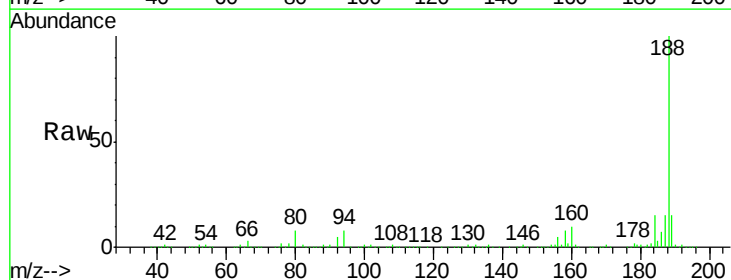


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

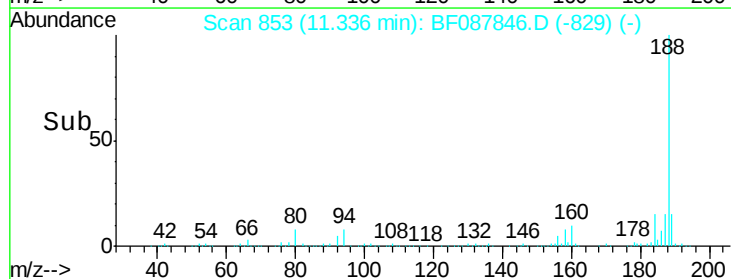
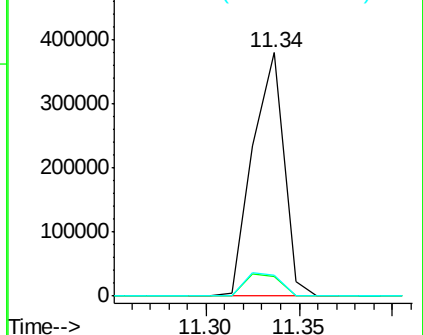


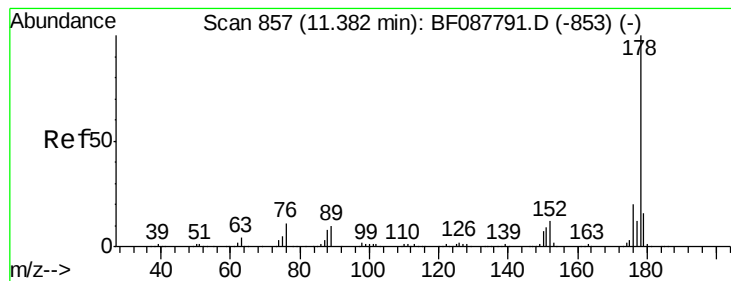
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.34 min Scan# 853
 Delta R.T. -0.02 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Tgt Ion:188 Resp: 441142
 Ion Ratio Lower Upper
 188 100
 94 7.9 9.0 13.6#
 80 8.4 10.0 15.0#



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: 55.30 ng

RT: 11.36 min Scan# 855

Delta R.T. -0.02 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

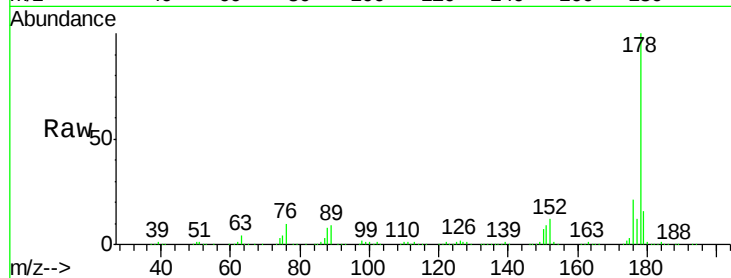
Tot Ion:178 Resp: 1280080

Ion	Ratio	Lower	Upper
178	100		
176	20.7	15.8	23.6
179	16.4	13.0	19.4

178 100

176 20.7 15.8 23.6

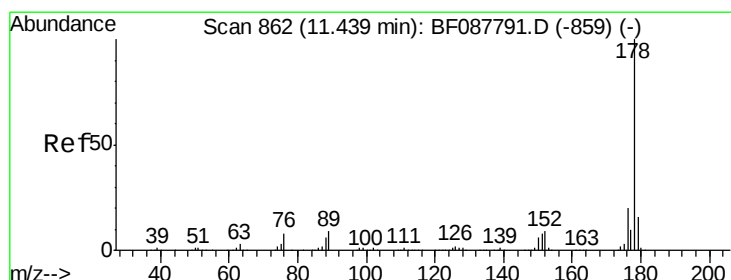
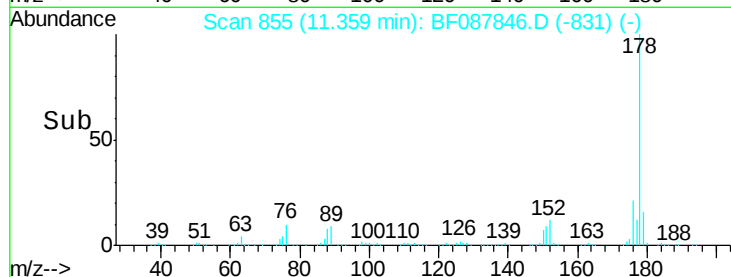
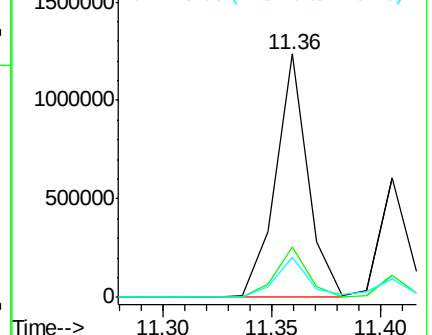
179 16.4 13.0 19.4



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: 23.23 ng

RT: 11.41 min Scan# 859

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

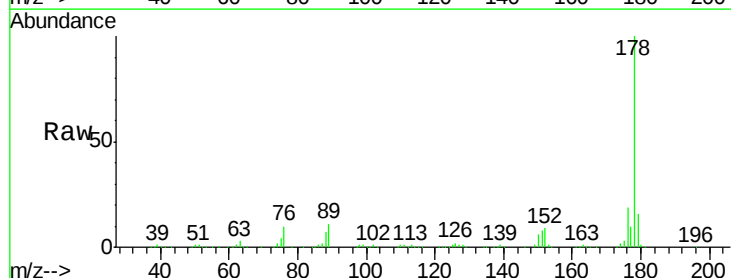
Tgt Ion:178 Resp: 542369

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.6	23.4
179	15.9	12.8	19.2

178 100

176 19.0 15.6 23.4

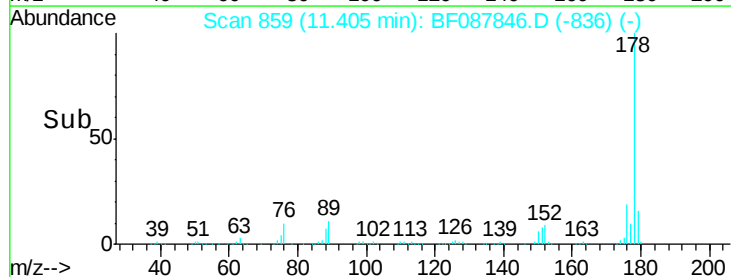
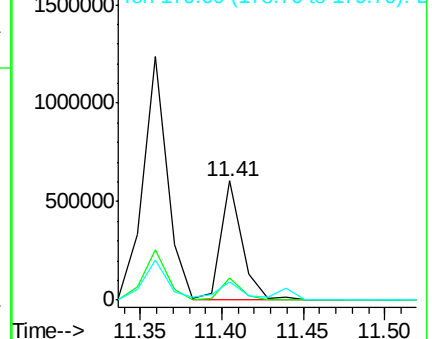
179 15.9 12.8 19.2

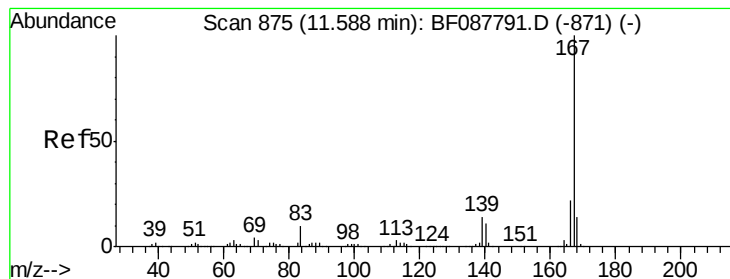


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 10.89 ng

RT: 11.55 min Scan# 872

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

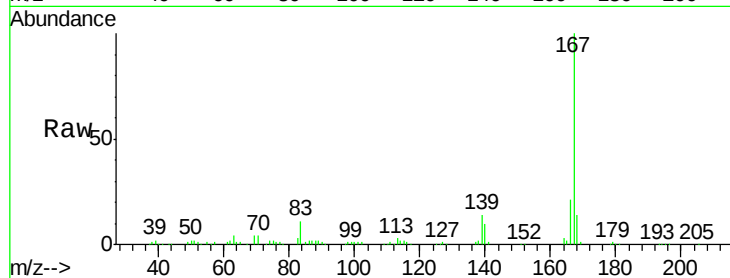
Tot Ion:167 Resp: 237984

Ion Ratio Lower Upper

167 100

166 21.5 17.8 26.6

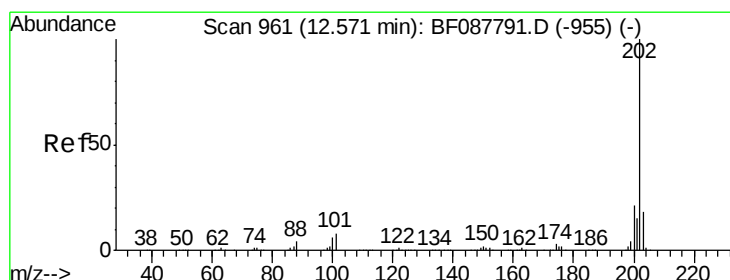
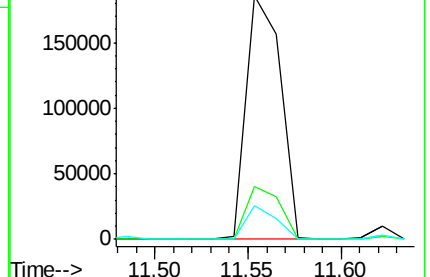
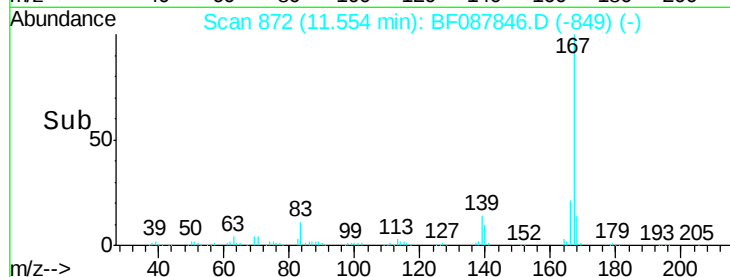
139 13.9 11.2 16.8



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



#74

Fluoranthene

Concen: 53.28 ng

RT: 12.55 min Scan# 959

Delta R.T. -0.02 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

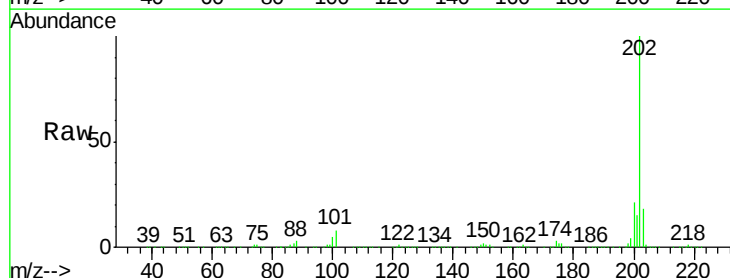
Tgt Ion:202 Resp: 1301623

Ion Ratio Lower Upper

202 100

101 7.6 0.0 33.1

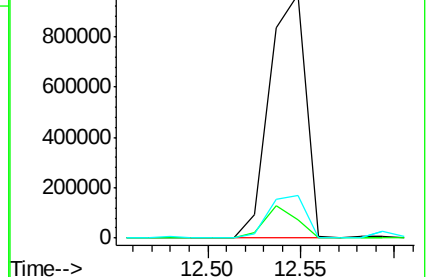
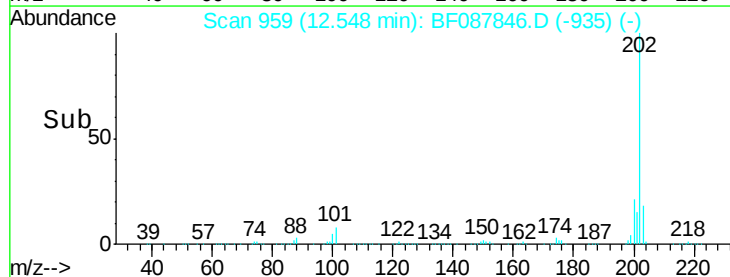
203 17.7 0.0 38.1

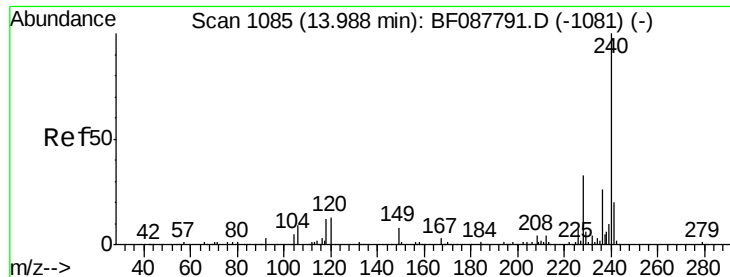


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.95 min Scan# 1082

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

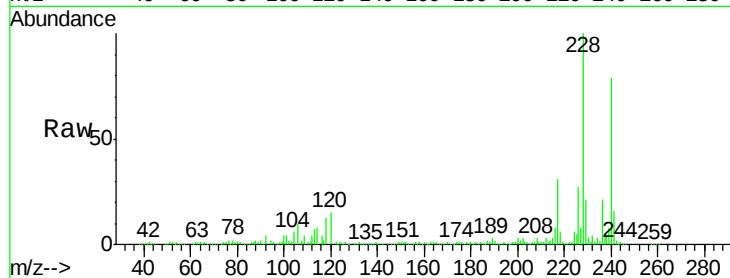
Tot Ion:240 Resp: 274299

Ion Ratio Lower Upper

240 100

120 18.6 6.8 10.2#

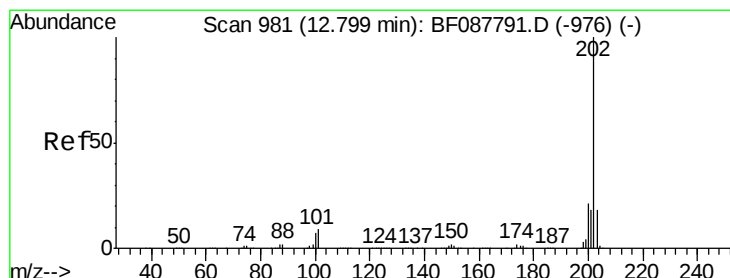
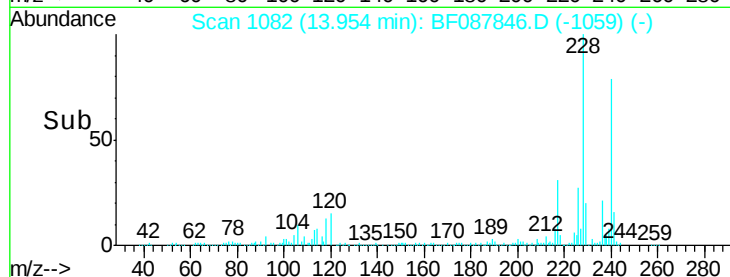
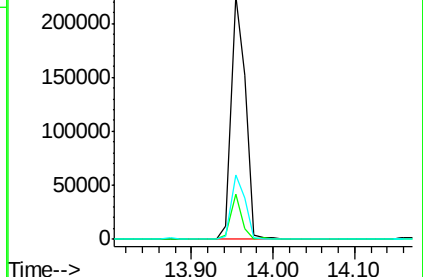
236 26.3 20.2 30.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 48.52 ng

RT: 12.77 min Scan# 978

Delta R.T. -0.03 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

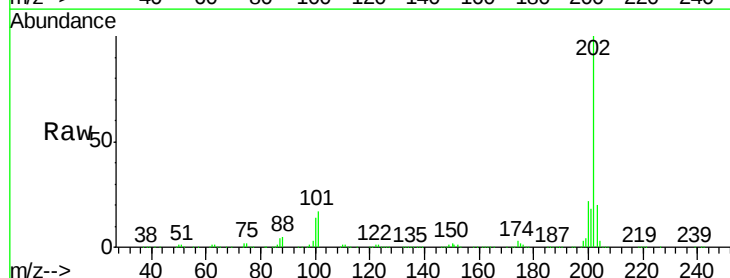
Tgt Ion:202 Resp: 987673

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

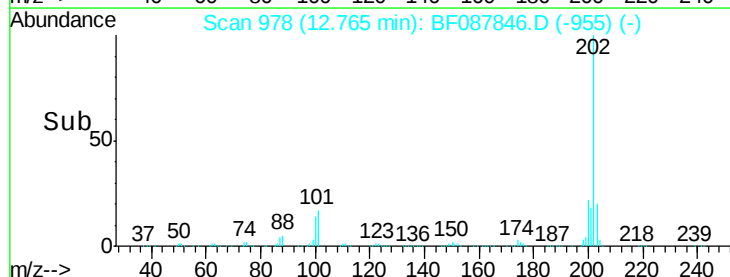
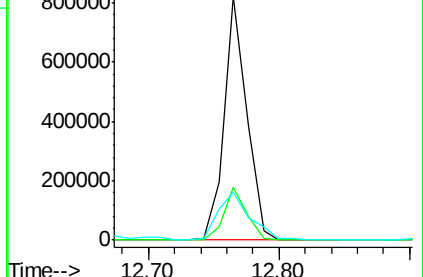
203 19.7 14.5 21.7

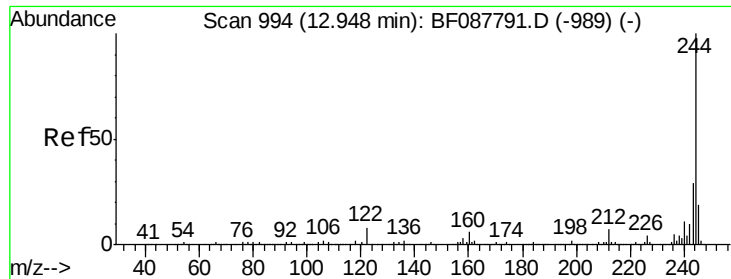


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

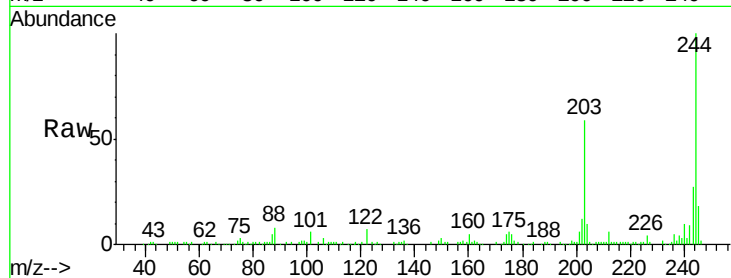




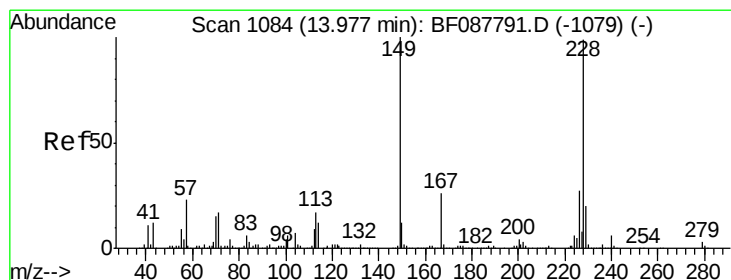
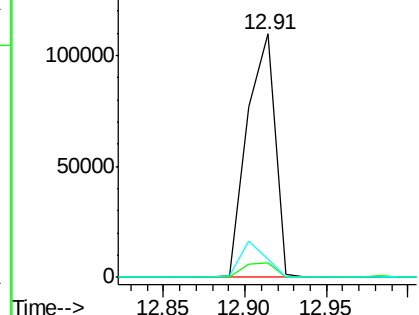
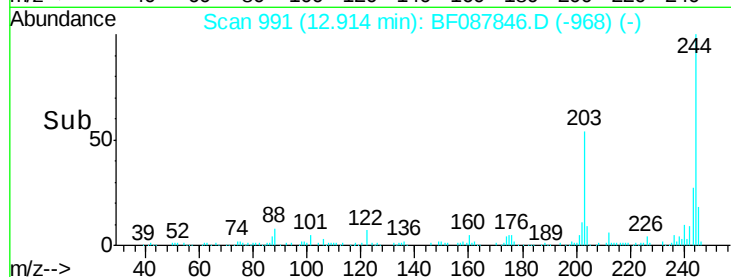
#78
 Terphenyl-d14
 Concen: 10.76 ng
 RT: 12.91 min Scan# 991
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Instrument :
 BNA_F
 ClientSampled :
 SS-14DL

Tot Ion:244 Resp: 129716
 Ion Ratio Lower Upper
 244 100
 212 5.8 6.0 9.0#
 122 7.5 11.2 16.8#

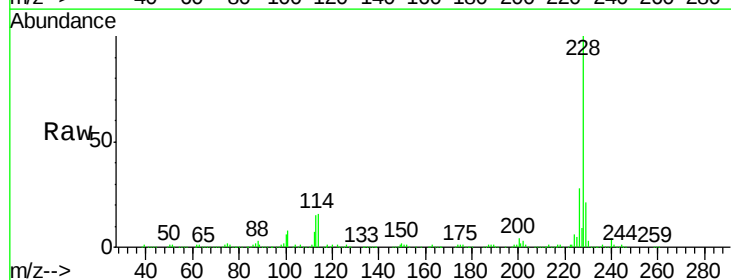


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

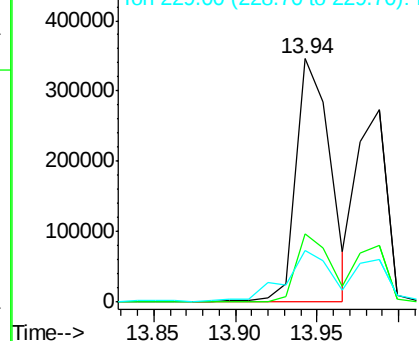
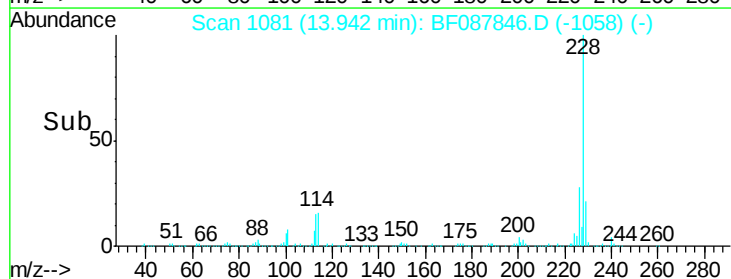


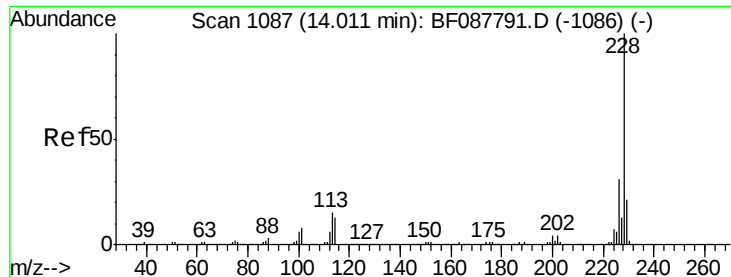
#80
 Benzo(a)anthracene
 Concen: 32.39 ng
 RT: 13.94 min Scan# 1081
 Delta R.T. -0.03 min
 Lab File: BF087846.D
 Acq: 9 Jun 2016 12:13

Tgt Ion:228 Resp: 506268
 Ion Ratio Lower Upper
 228 100
 226 28.1 22.3 33.5
 229 21.3 16.0 24.0



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: 24.04 ng m

RT: 13.99 min Scan# 1085

Delta R.T. -0.02 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

BNA_F

ClientSampleId :

SS-14DL

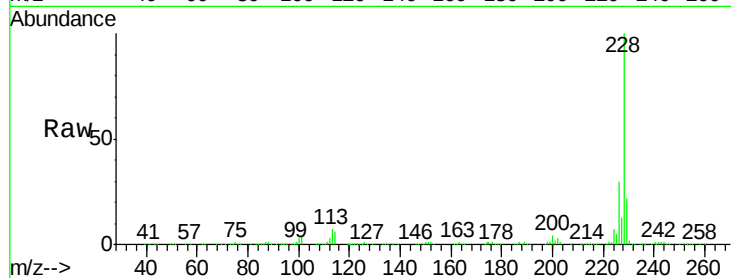
Tot Ion:228 Resp: 353572

Ion Ratio Lower Upper

228 100

226 29.5 25.4 38.2

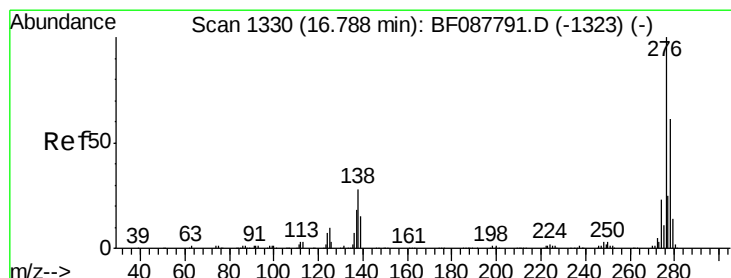
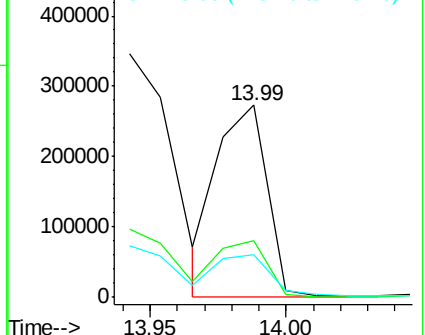
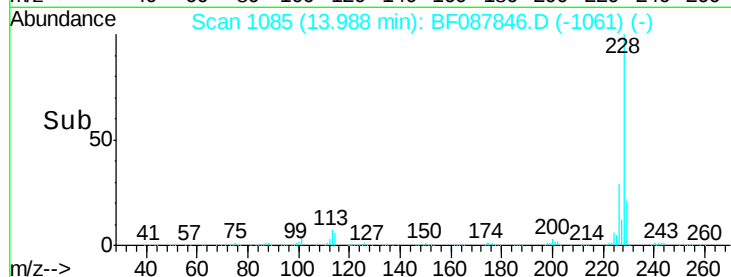
229 22.1 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 17.16 ng m

RT: 16.72 min Scan# 1324

Delta R.T. -0.07 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

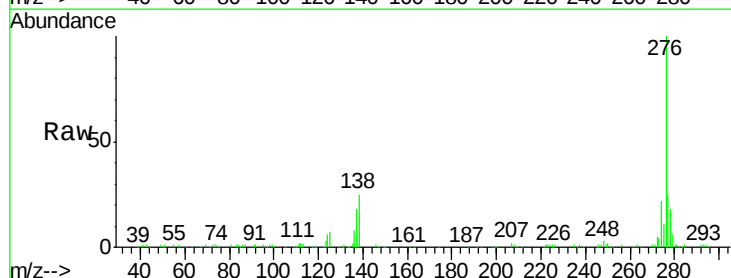
Tgt Ion:276 Resp: 234393

Ion Ratio Lower Upper

276 100

138 0.0 0.0 0.0

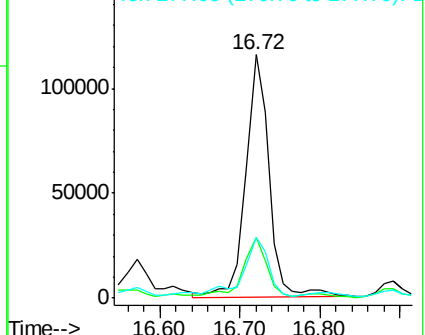
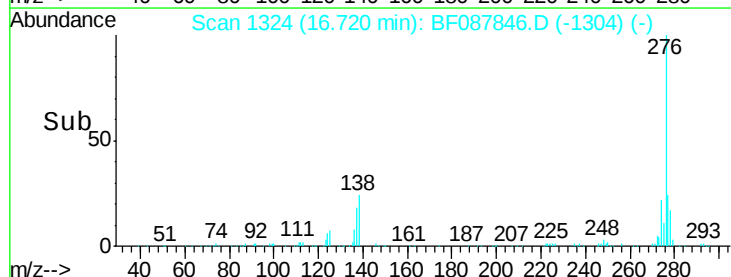
277 0.0 0.0 0.0

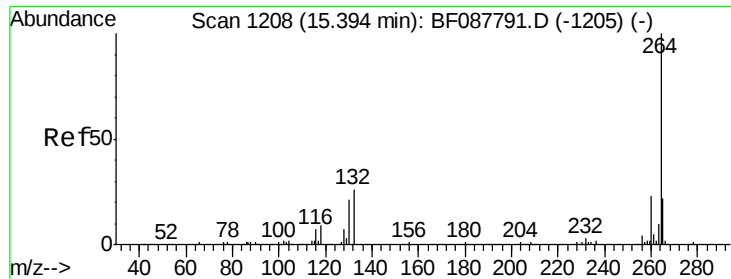


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



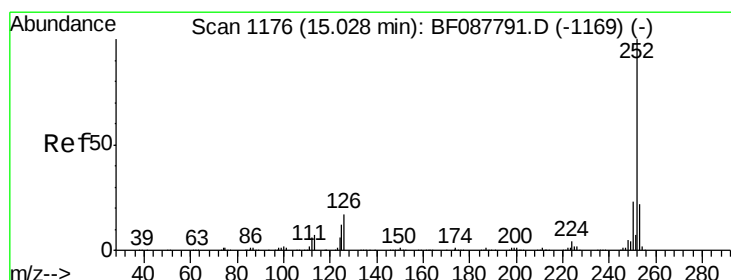
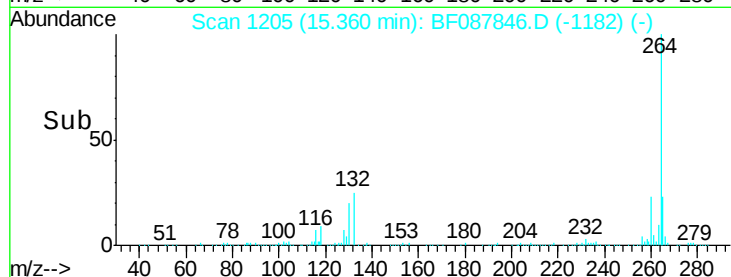
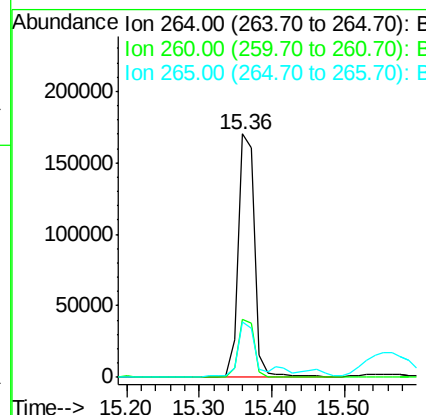
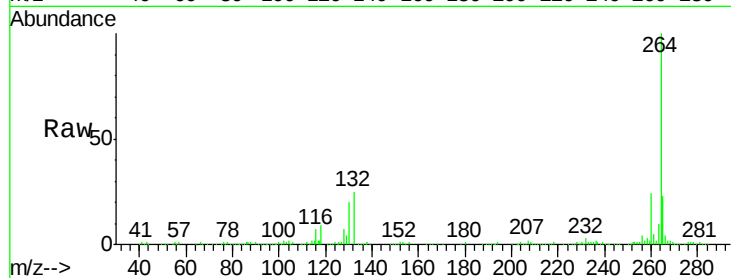


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 1205
Delta R.T. -0.03 min
Lab File: BF087846.D
Acq: 9 Jun 2016 12:13

Instrument :
BNA_F
ClientSampleId :
SS-14DL

Tot Ion:264 Resp: 266561

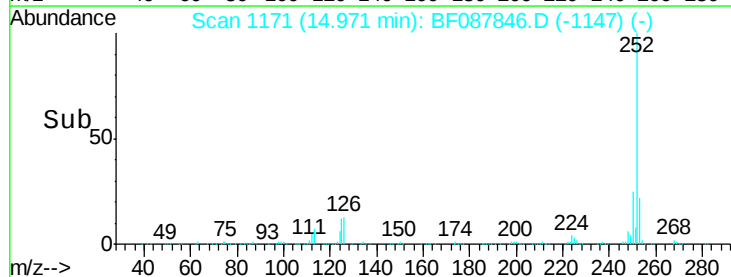
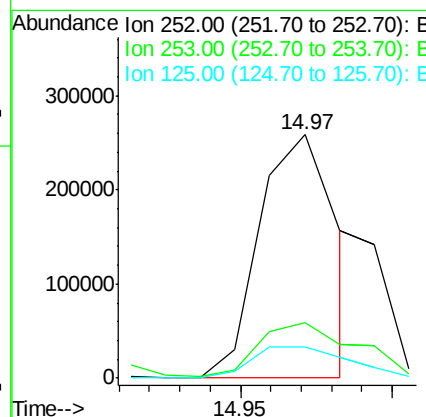
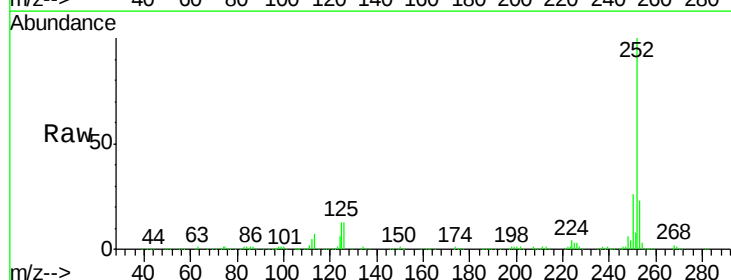
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.7	16.9	25.3

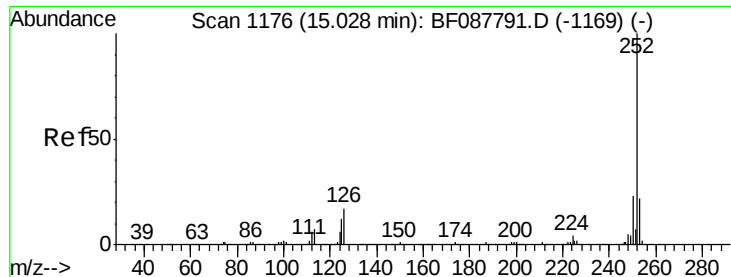


#87
Benzo(b)fluoranthene
Concen: 24.45 ng m
RT: 14.97 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BF087846.D
Acq: 9 Jun 2016 12:13

Tgt Ion:252 Resp: 454191

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.2
125	12.6	7.1	10.7#

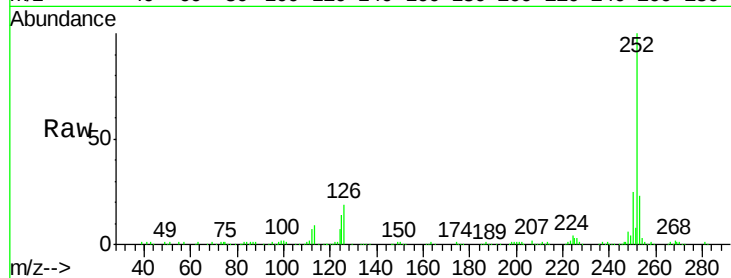




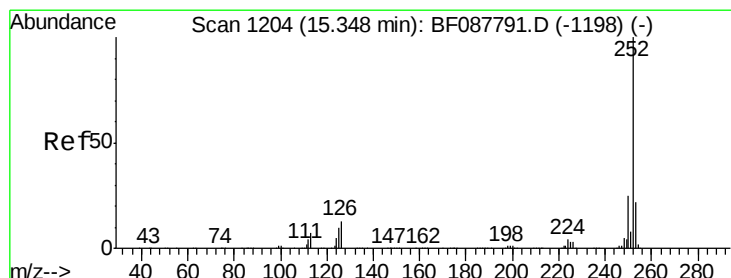
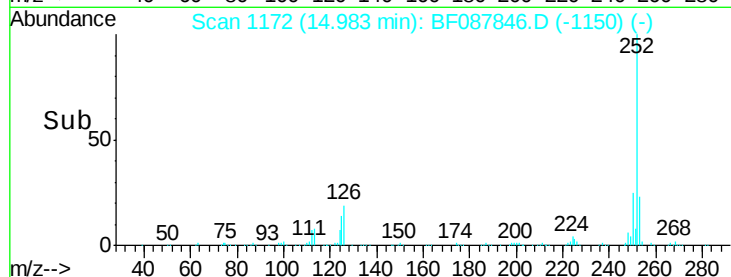
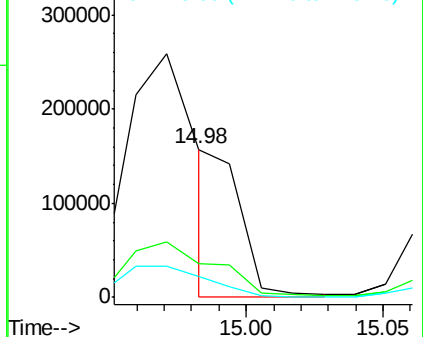
#88
Benzo(k)fluoranthene
Concen: 7.80 ng m
RT: 14.98 min Scan# 1172
Delta R.T. -0.05 min
Lab File: BF087846.D
Acq: 9 Jun 2016 12:13

Instrument :
BNA_F
ClientSampleId :
SS-14DL

Tot Ion:252 Resp: 109336
Ion Ratio Lower Upper
252 100
253 23.2 18.0 27.0
125 14.4 11.2 16.8

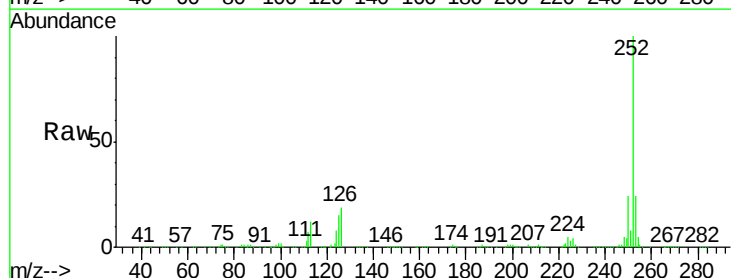


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

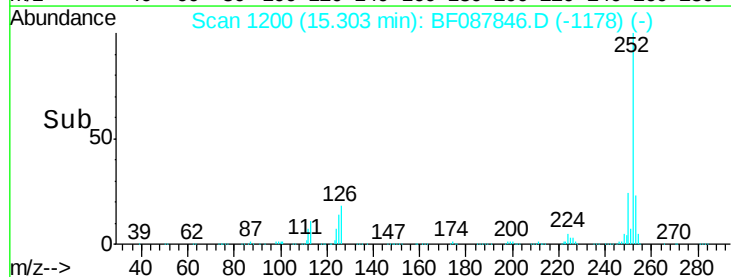
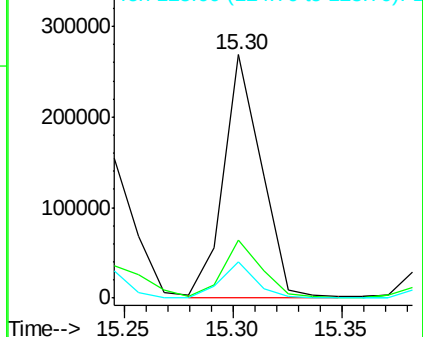


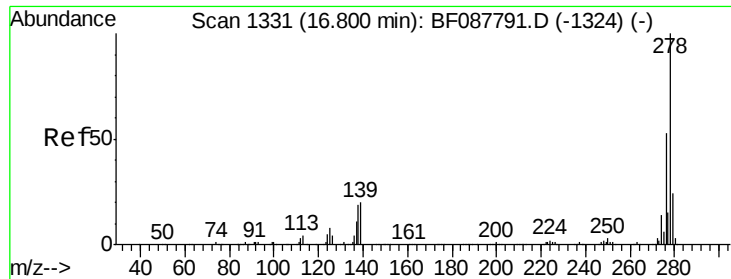
#89
Benzo(a)pyrene
Concen: 21.41 ng
RT: 15.30 min Scan# 1200
Delta R.T. -0.05 min
Lab File: BF087846.D
Acq: 9 Jun 2016 12:13

Tgt Ion:252 Resp: 321884
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 14.9 12.5 18.7



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





#90

Dibenzo(a,h)anthracene

Concen: 3.90 ng/mL

RT: 16.73 min Scan# 1325

Delta R.T. -0.07 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Instrument :

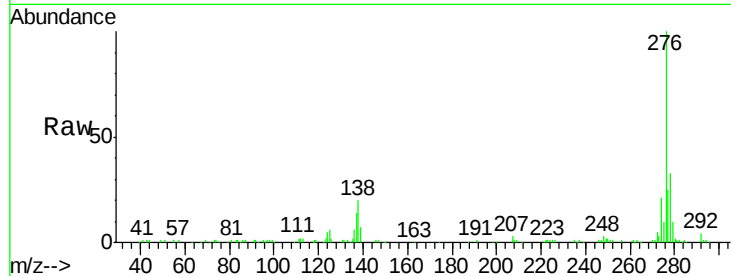
BNA_F

ClientSampleId :

SS-14DL

Tot Ion:278 Resp: 54484

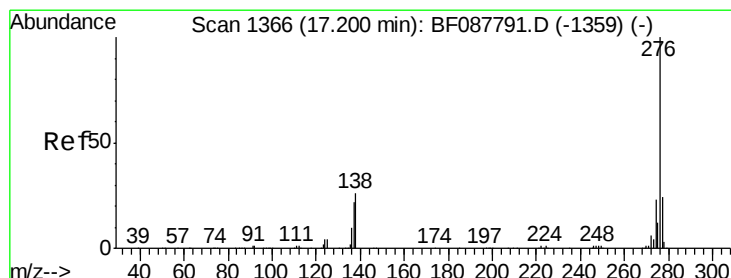
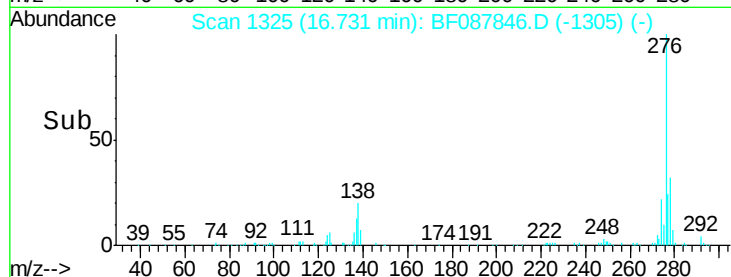
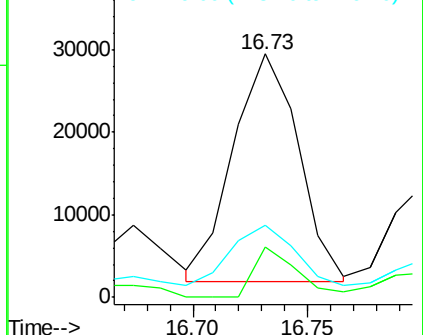
Ion	Ratio	Lower	Upper
278	100		
139	20.9	15.7	23.5
279	29.5	19.4	29.2#



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: 13.48 ng/mL

RT: 17.13 min Scan# 1360

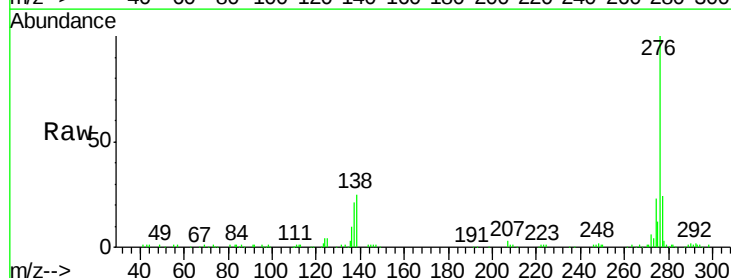
Delta R.T. -0.07 min

Lab File: BF087846.D

Acq: 9 Jun 2016 12:13

Tgt Ion:276 Resp: 193585

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	24.5	21.4	32.2



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

