

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071216\
 Data File : BF088950.D
 Acq On : 13 Jul 2016 7:48
 Operator : UM/SJ
 Sample : H3936-04
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(4-5)

Quant Time: Jul 13 08:15:18 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 11 18:13:32 2016
 Response via : Initial Calibration

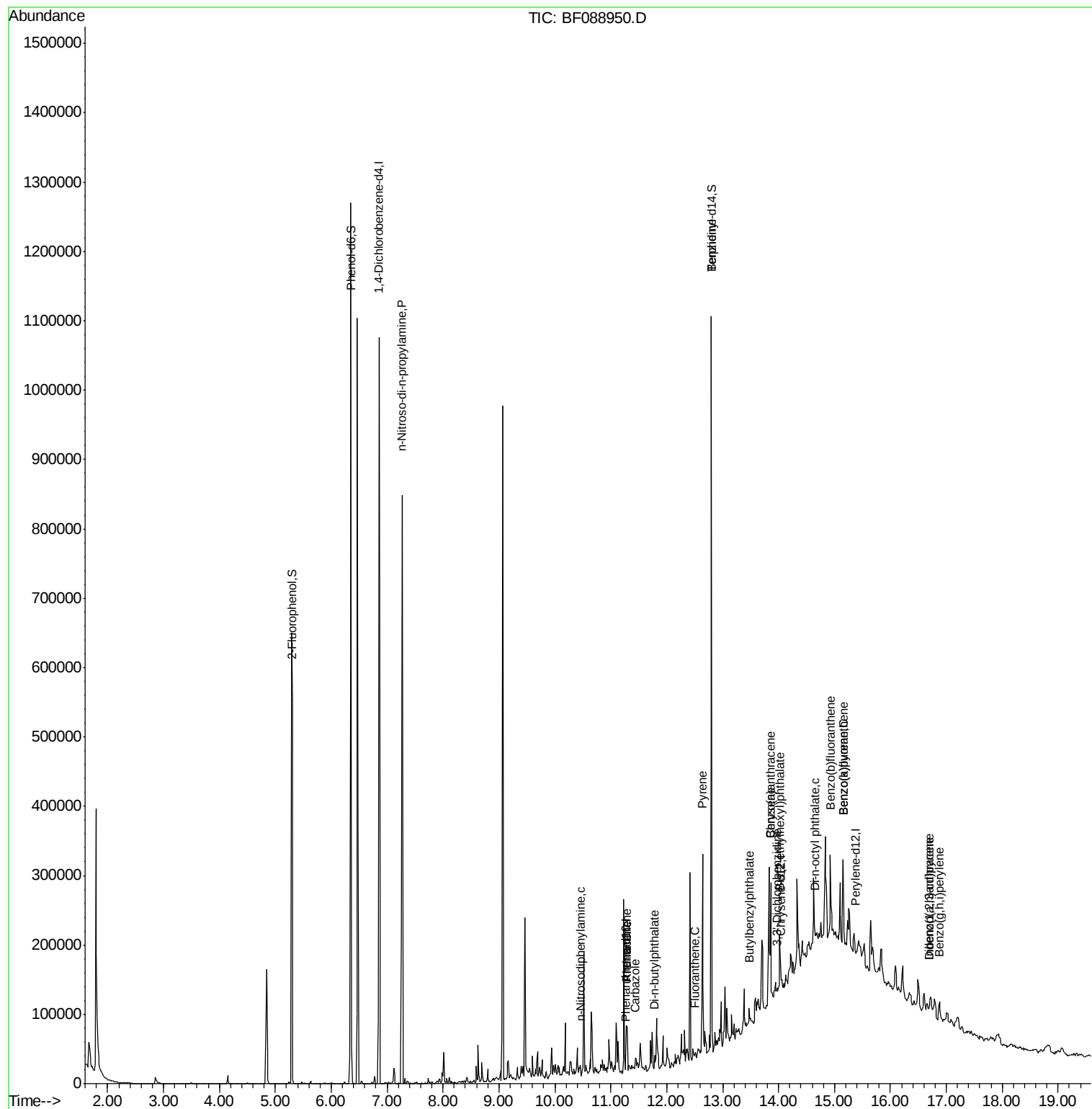
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	159209	20.00	ng	0.15
21) Naphthalene-d8	0.00	136	0	0.00	ng	-8.00
38) Acenaphthene-d10	0.00	164	0	0.00	ng	-9.75
63) Phenanthrene-d10	11.27	188	798	20.00	ng	0.05
75) Chrysene-d12	14.05	240	381	20.00	ng	0.19
86) Perylene-d12	15.37	264	2777	20.00	ng	0.16
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	250211	23.55	ng	0.01
7) Phenol-d6	6.35	99	484000	35.26	ng	0.00
23) Nitrobenzene-d5	7.27	82	271027	0.00	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	21544	0.00	ng	-0.01
44) 2-Fluorobiphenyl	9.07	172	472673	0.00	ng	0.00
78) Terphenyl-d14	12.80	244	335880	19635.60	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.27	70	37499	4.07	ng	# 74
65) n-Nitrosodiphenylamine	10.46	169	2020	74.79	ng	# 43
70) Phenanthrene	11.29	178	24248	555.86	ng	99
71) Anthracene	11.29	178	24249	559.06	ng	99
72) Carbazole	11.44	167	6346	155.45	ng	97
73) Di-n-butylphthalate	11.78	149	1557	32.79	ng	# 79
74) Fluoranthene	12.51	202	6990	158.06	ng	84
76) Benzidine	12.80	184	5467	283.89	ng	# 84
77) Pyrene	12.64	202	121187	3751.39	ng	98
79) Butylbenzylphthalate	13.47	149	259	17.97	ng	# 29
80) Benzo(a)anthracene	13.86	228	51261	2089.46	ng	96
81) 3,3'-Dichlorobenzidine	13.97	252	288	31.22	ng	# 1
82) Chrysene	13.86	228	50270	2071.08	ng	95
83) Bis(2-ethylhexyl)phthalate	14.02	149	518	31.49	ng	# 44
84) Di-n-octyl phthalate	14.65	149	387	13.85	ng	# 100
85) Indeno(1,2,3-cd)pyrene	16.70	276	2938	157.33	ng	# 100
87) Benzo(b)fluoranthene	14.93	252	12028	69.05	ng	# 66
88) Benzo(k)fluoranthene	15.15	252	45443	299.65	ng	98
89) Benzo(a)pyrene	15.15	252	45048	305.42	ng	98
90) Dibenzo(a,h)anthracene	16.70	278	7288	59.17	ng	# 71
91) Benzo(g,h,i)perylene	16.88	276	23288	182.72	ng	98

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

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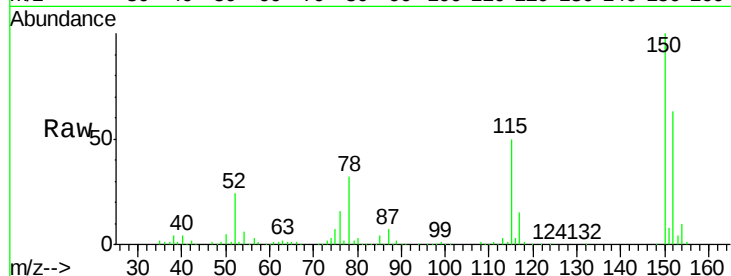




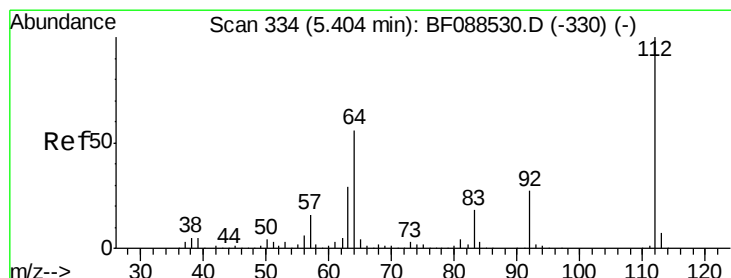
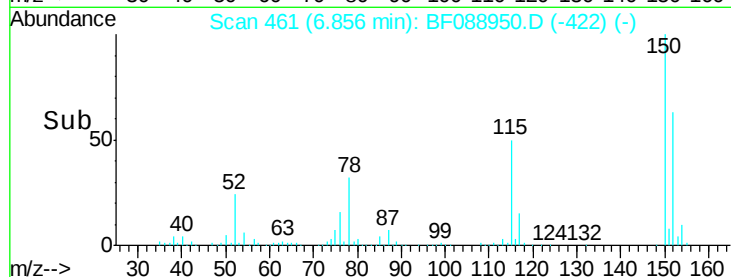
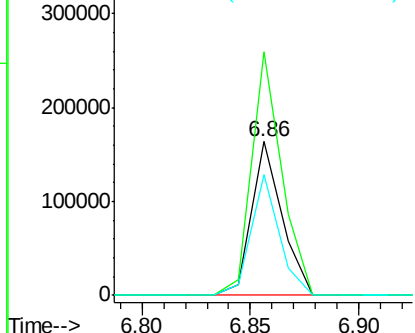
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 461
 Delta R.T. 0.15 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(4-5)

Tgt Ion:152 Resp: 159209
 Ion Ratio Lower Upper
 152 100
 150 158.2 123.8 185.6
 115 78.8 39.6 59.4#

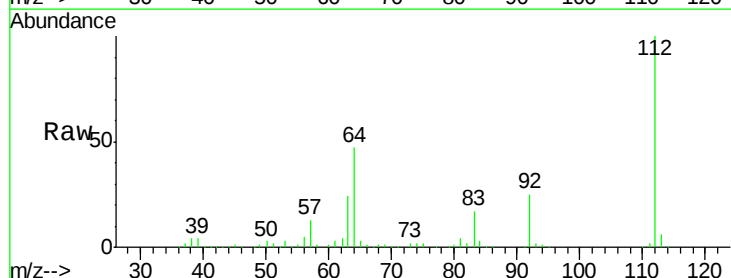


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

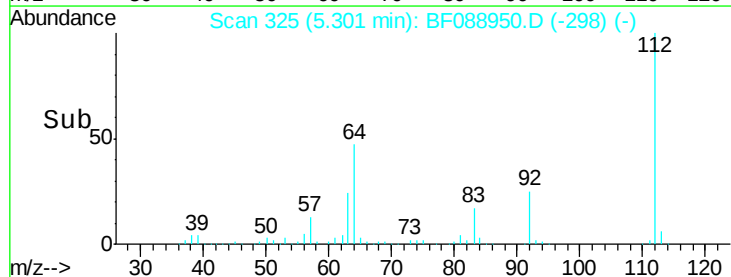
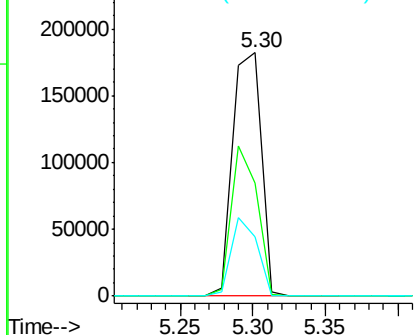


#5
 2-Fluorophenol
 Concen: 23.55 ng
 RT: 5.30 min Scan# 325
 Delta R.T. 0.01 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion:112 Resp: 250211
 Ion Ratio Lower Upper
 112 100
 64 46.6 42.2 63.2
 63 24.1 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: 35.26 ng

RT: 6.35 min Scan# 417

Delta R.T. 0.00 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

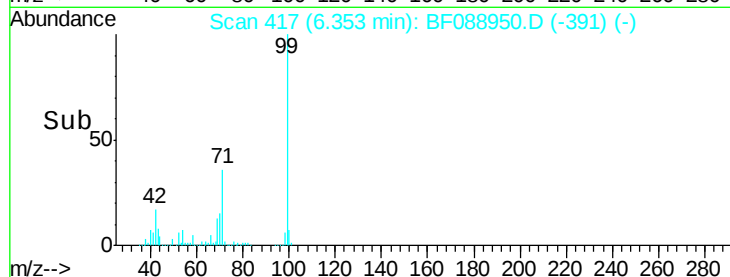
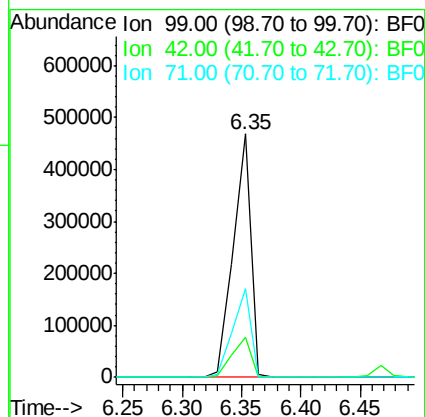
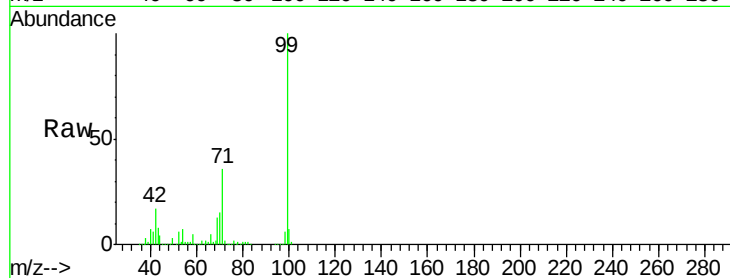
Tgt Ion: 99 Resp: 484000

Ion Ratio Lower Upper

99 100

42 16.6 12.2 18.2

71 36.4 23.4 35.0#



#19

n-Nitroso-di-n-propylamine

Concen: 4.07 ng

RT: 7.27 min Scan# 497

Delta R.T. 0.13 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Tgt Ion: 70 Resp: 37499

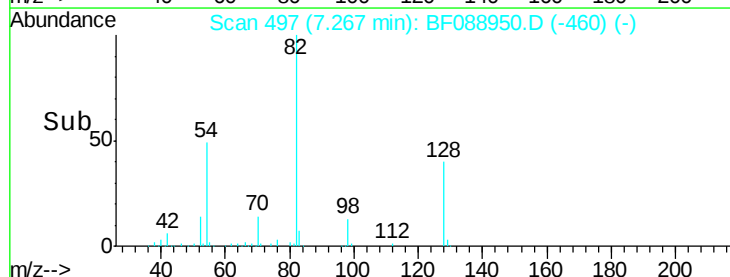
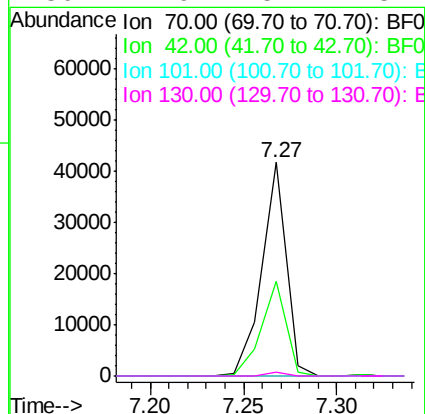
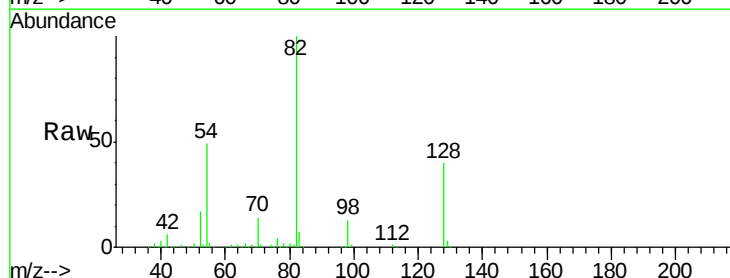
Ion Ratio Lower Upper

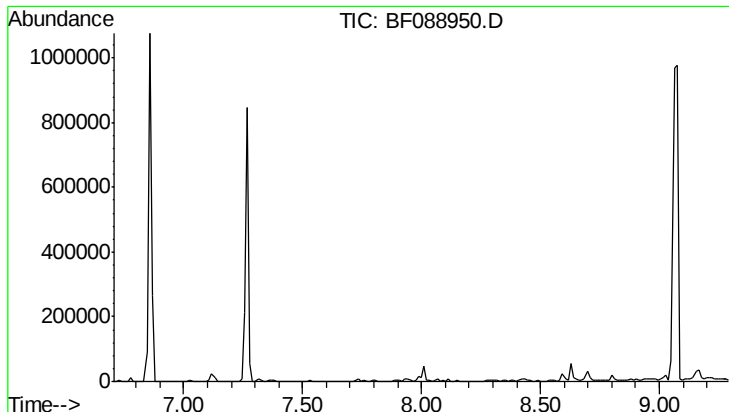
70 100

42 44.3 49.6 74.4#

101 0.0 7.1 10.7#

130 1.9 15.4 23.2#

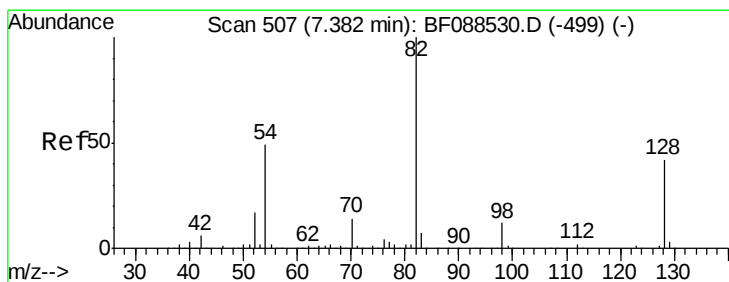
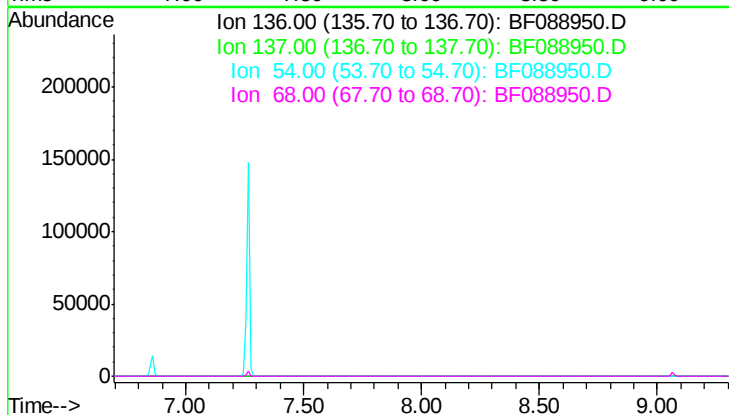




#21
Naphthalene-d8
Concen: 0.00 ng
Expected RT: 8.00 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

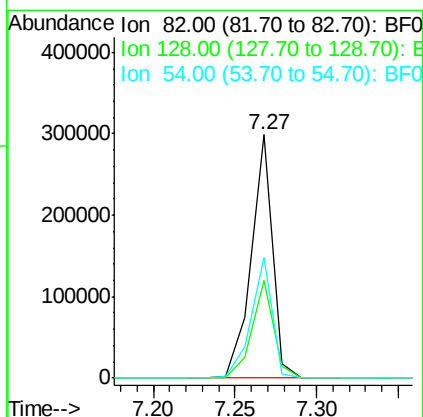
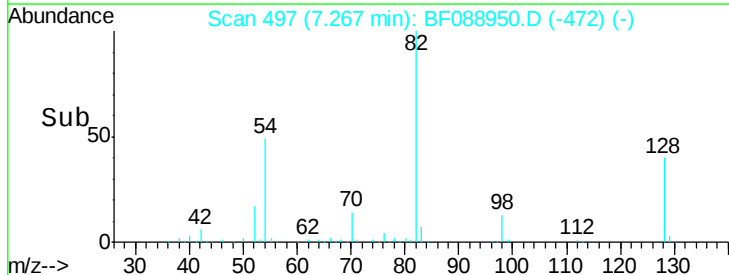
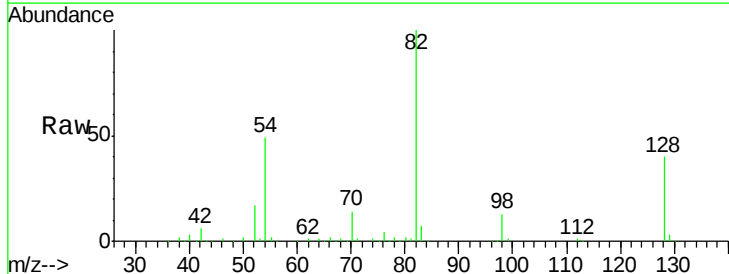
Instrument :
BNA_F
ClientSampleId :
SB-4(4-5)

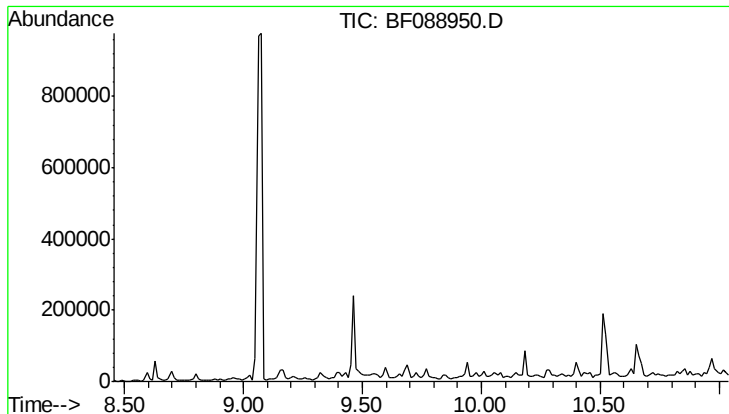
Tgt Ion: 136
Sig Exp Ratio
136 100
137 11.4
54 8.3
68 6.4



#23
Nitrobenzene-d5
Concen: 0.00 ng
RT: 7.27 min Scan# 497
Delta R.T. -0.01 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

Tgt Ion: 82 Resp: 271027
Ion Ratio Lower Upper
82 100
128 40.2 35.9 53.9
54 49.4 40.9 61.3





#38

Acenaphthene-d10

Concen: 0.00 ng

Expected RT: 9.75 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

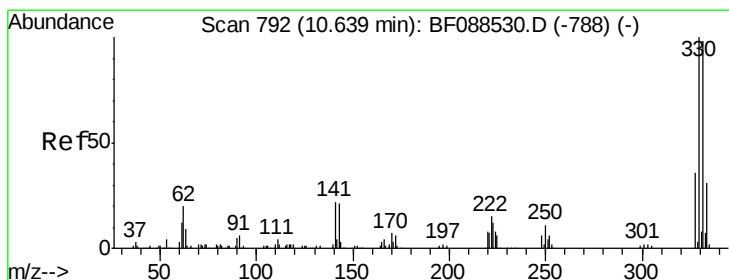
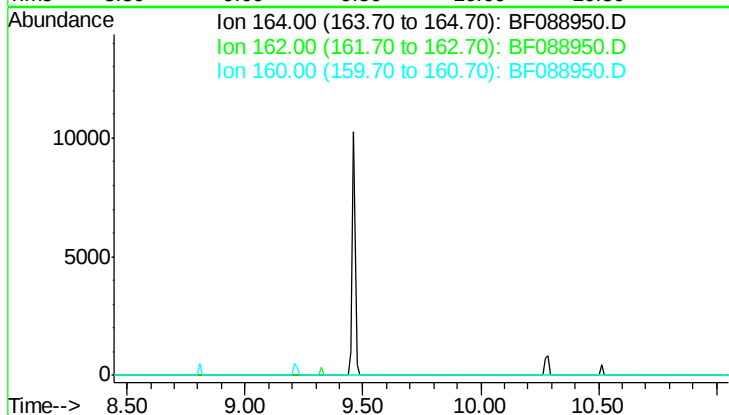
Tgt Ion: 164

Sig Exp Ratio

164 100

162 106.8

160 49.4



#41

2,4,6-Tribromophenol

Concen: 0.00 ng

RT: 10.52 min Scan# 782

Delta R.T. -0.01 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

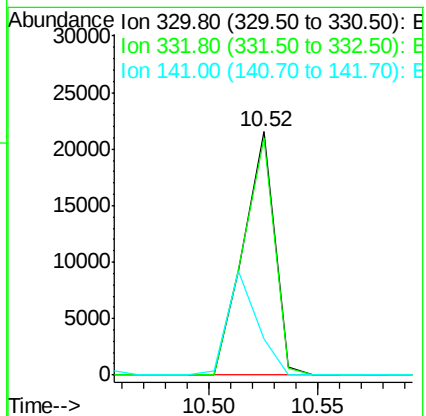
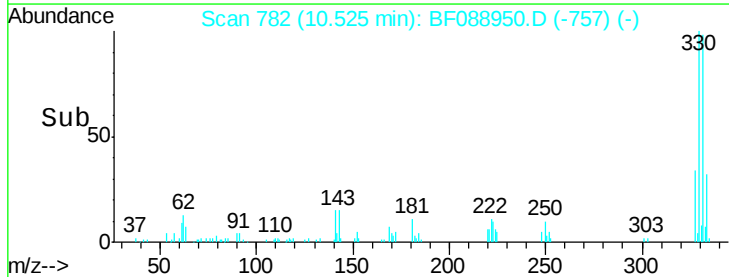
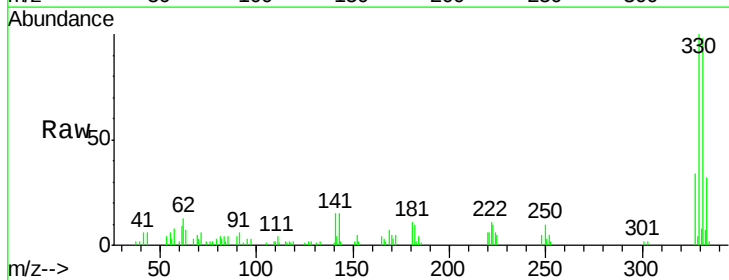
Tgt Ion: 330 Resp: 21544

Ion Ratio Lower Upper

330 100

332 98.5 0.0 0.0#

141 40.6 0.0 0.0#

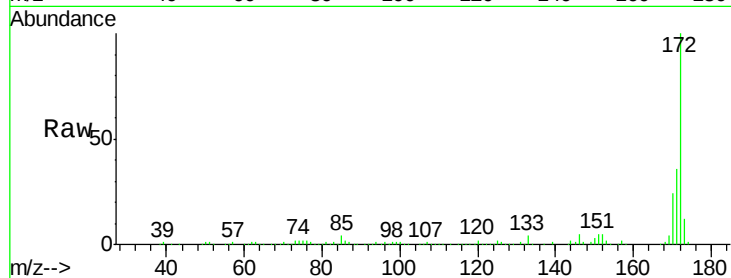




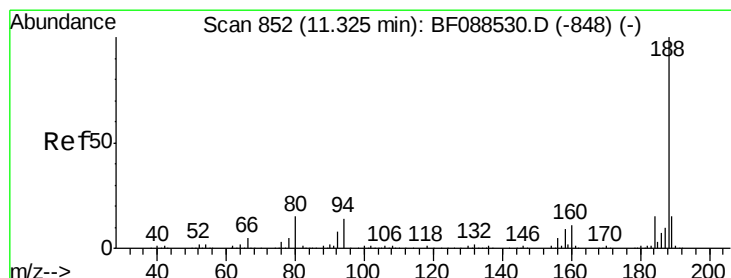
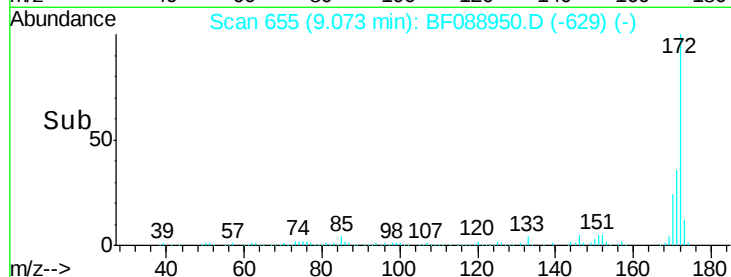
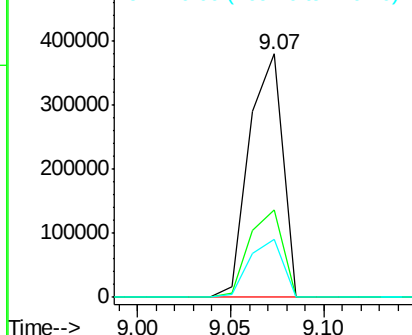
#44
 2-Fluorobiphenyl
 Concen: 0.00 ng
 RT: 9.07 min Scan# 655
 Delta R.T. 0.00 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(4-5)

Tgt Ion:172 Resp: 472673
 Ion Ratio Lower Upper
 172 100
 171 36.0 28.6 43.0
 170 23.7 19.2 28.8

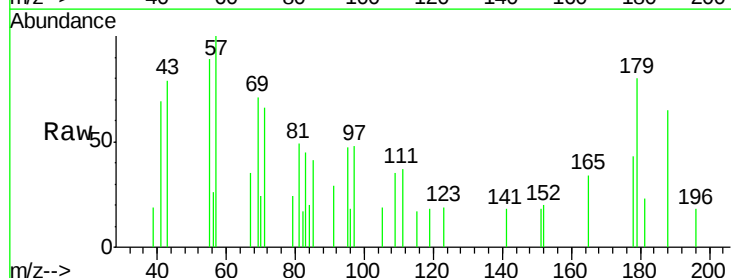


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

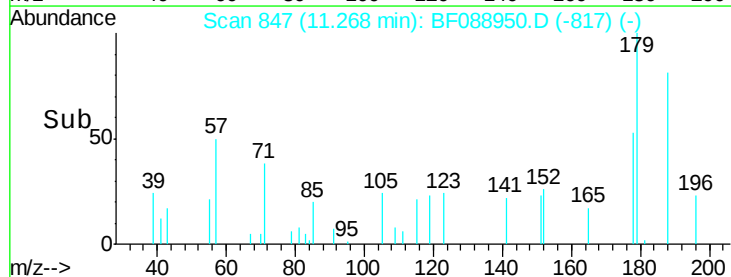
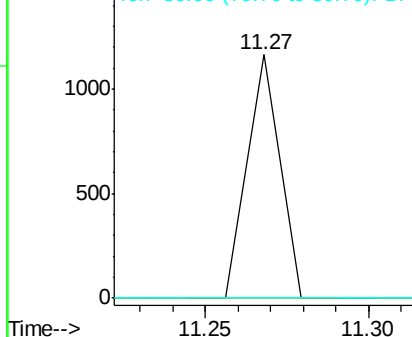


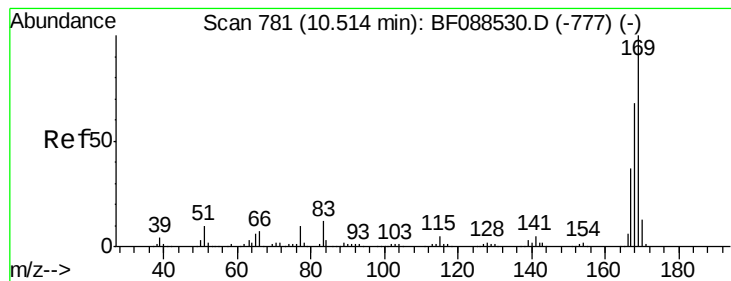
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.27 min Scan# 847
 Delta R.T. 0.05 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion:188 Resp: 798
 Ion Ratio Lower Upper
 188 100
 94 0.0 9.0 13.6#
 80 0.0 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





#65

n-Nitrosodiphenylamine

Concen: 74.79 ng

RT: 10.46 min Scan# 776

Delta R.T. 0.05 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

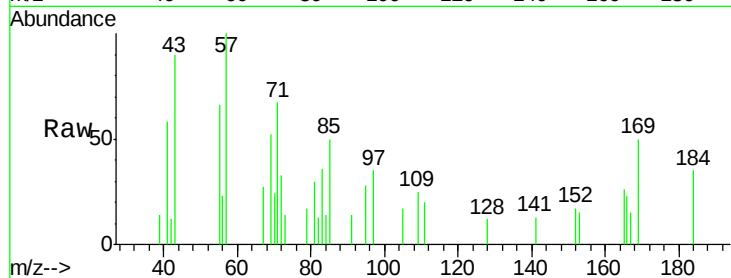
Tgt Ion:169 Resp: 2020

Ion Ratio Lower Upper

169 100

168 0.0 53.4 80.0#

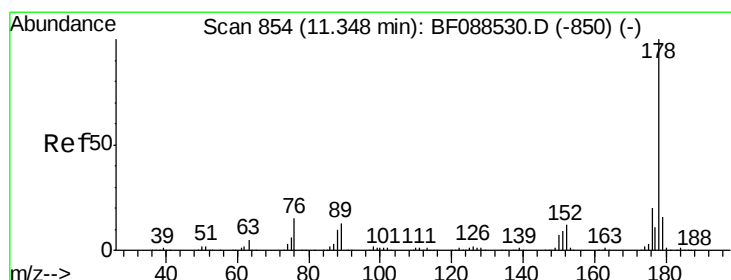
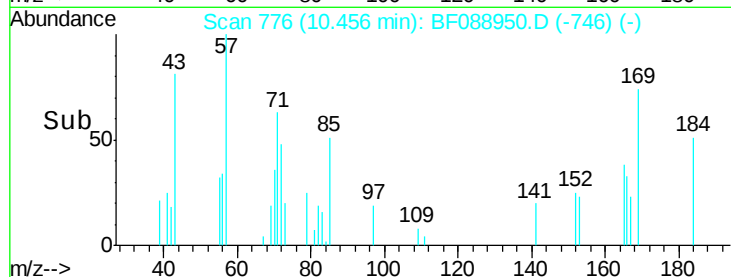
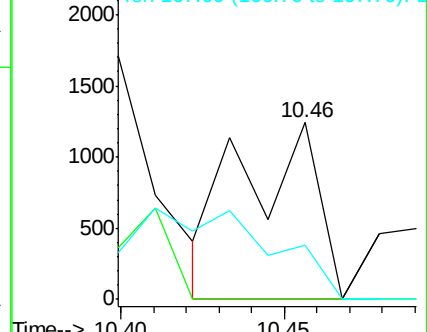
167 30.7 29.4 44.0



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#70

Phenanthrene

Concen: 555.86 ng

RT: 11.29 min Scan# 849

Delta R.T. 0.05 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

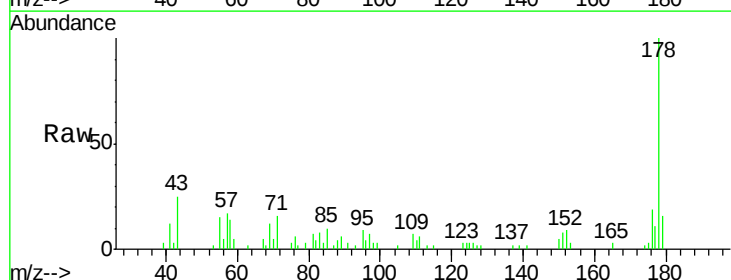
Tgt Ion:178 Resp: 24248

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.6

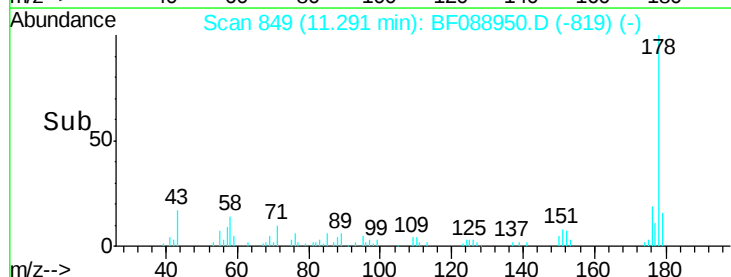
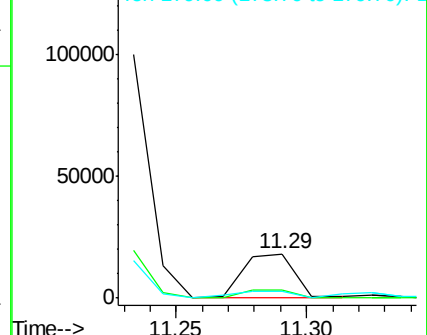
179 15.9 13.0 19.4

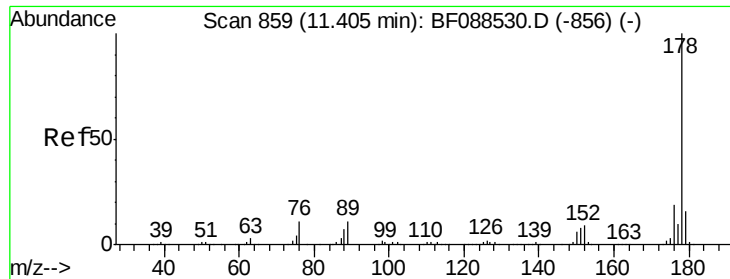


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

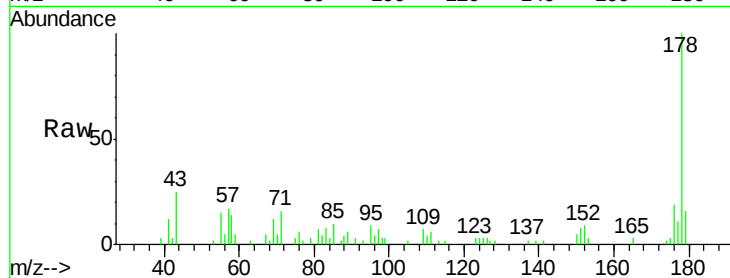




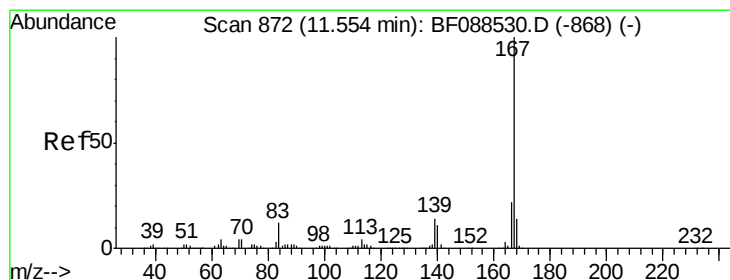
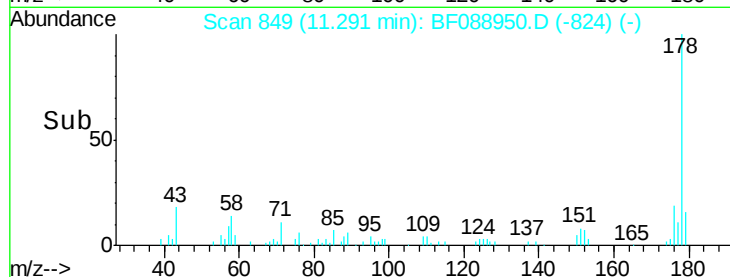
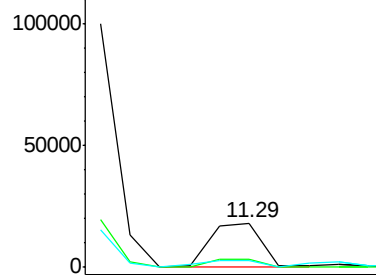
#71
 Anthracene
 Concen: 559.06 ng
 RT: 11.29 min Scan# 849
 Delta R.T. -0.01 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Instrument :
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Tgt Ion:178 Resp: 24249
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.6 23.4
 179 15.9 12.8 19.2

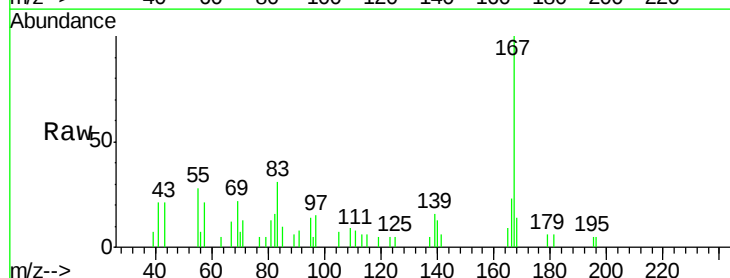


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

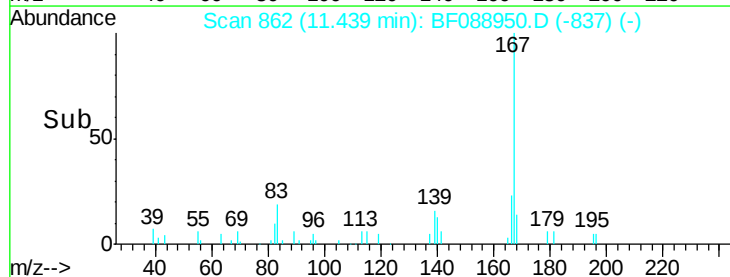
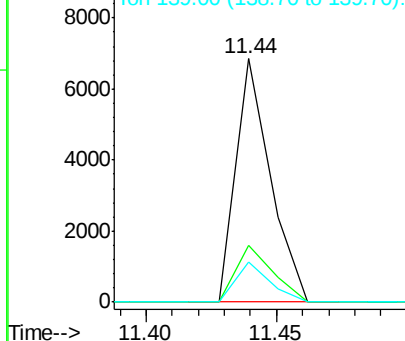


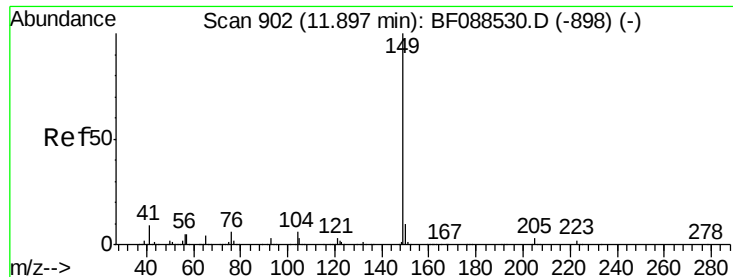
#72
 Carbazole
 Concen: 155.45 ng
 RT: 11.44 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion:167 Resp: 6346
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.8 26.6
 139 16.2 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





#73

Di-n-butylphthalate

Concen: 32.79 ng

RT: 11.78 min Scan# 892

Delta R.T. -0.01 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

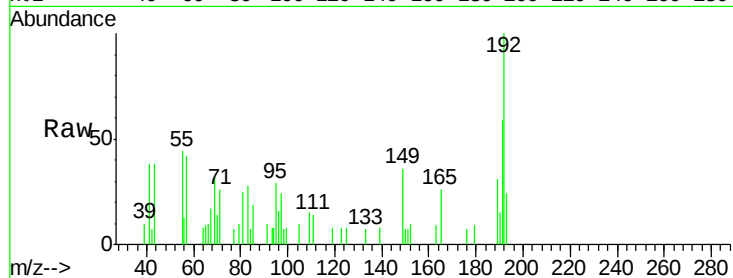
Tgt Ion:149 Resp: 1557

Ion Ratio Lower Upper

149 100

150 18.6 7.8 11.6#

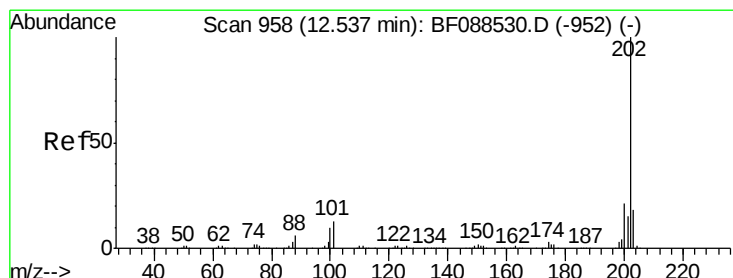
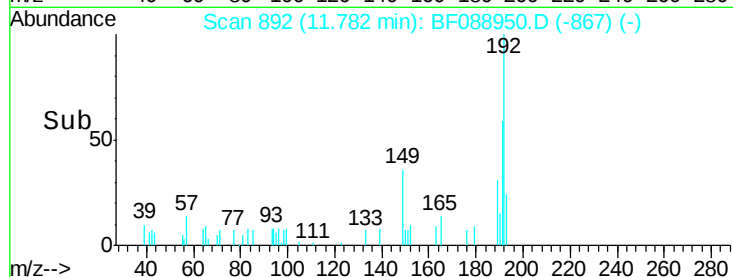
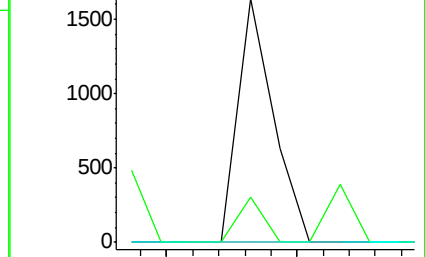
104 0.0 4.0 6.0#



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: 158.06 ng

RT: 12.51 min Scan# 956

Delta R.T. 0.09 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

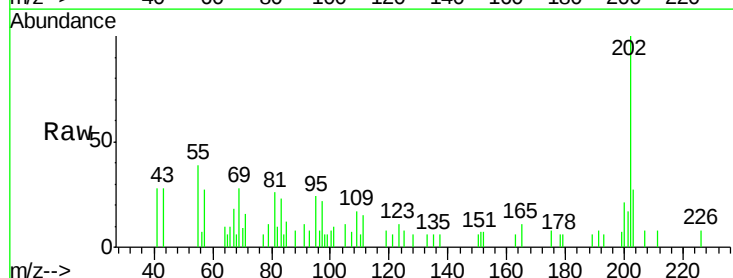
Tgt Ion:202 Resp: 6990

Ion Ratio Lower Upper

202 100

101 9.9 0.0 33.1

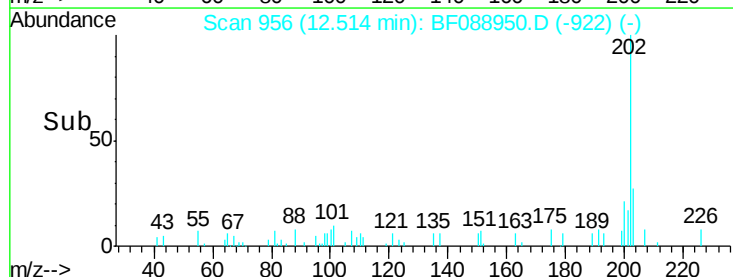
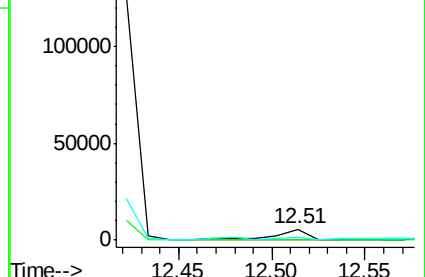
203 27.5 0.0 38.1

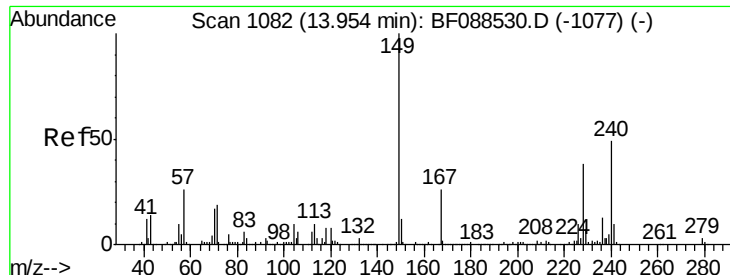


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.05 min Scan# 1090

Delta R.T. 0.19 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

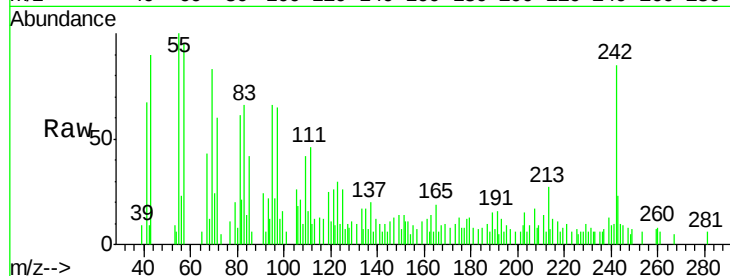
Tgt Ion:240 Resp: 381

Ion Ratio Lower Upper

240 100

120 118.4 6.8 10.2#

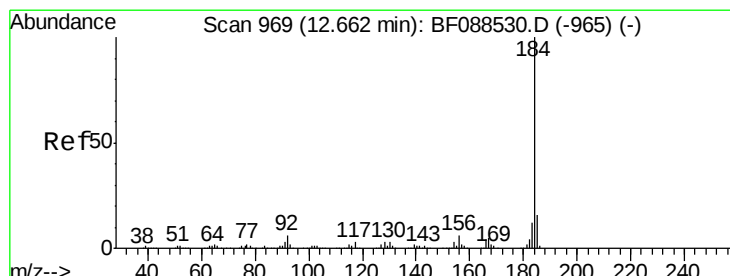
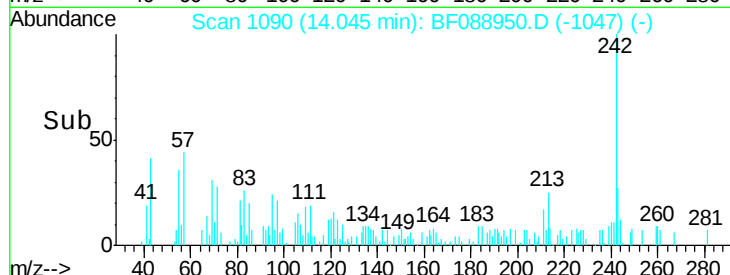
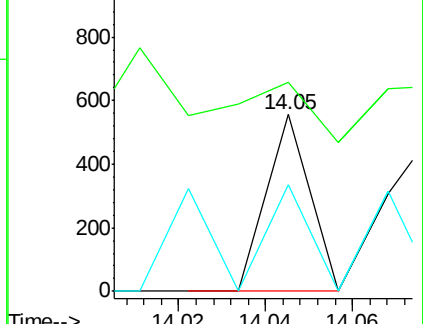
236 60.2 20.2 30.2#



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



#76

Benzidine

Concen: 283.89 ng

RT: 12.80 min Scan# 981

Delta R.T. 0.25 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

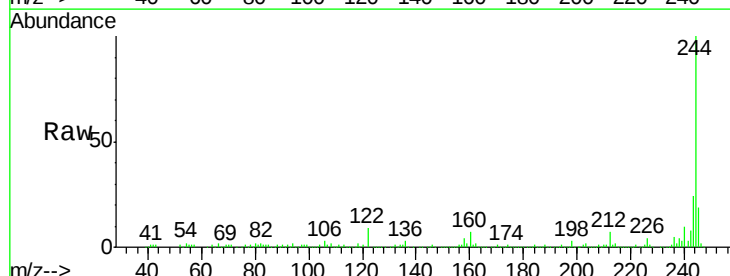
Tgt Ion:184 Resp: 5467

Ion Ratio Lower Upper

184 100

185 21.0 12.5 18.7#

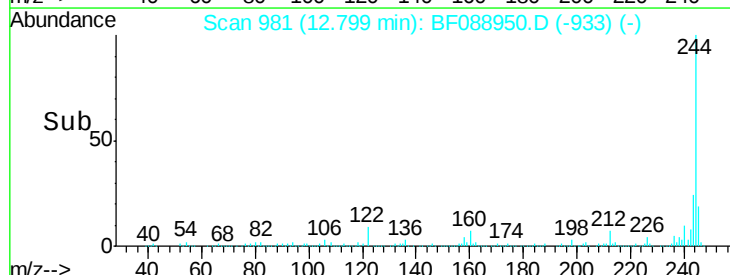
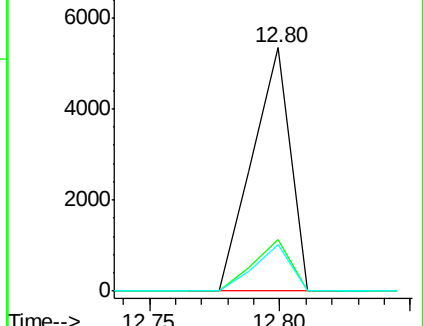
183 19.1 9.3 13.9#

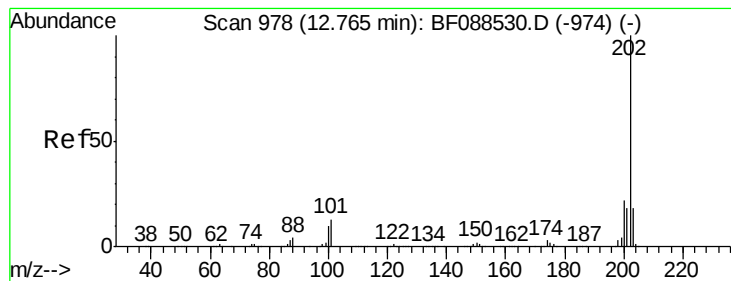


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

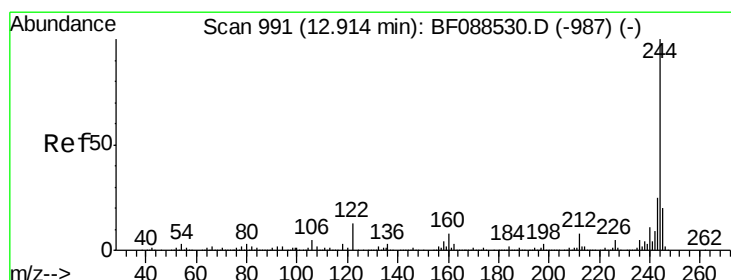
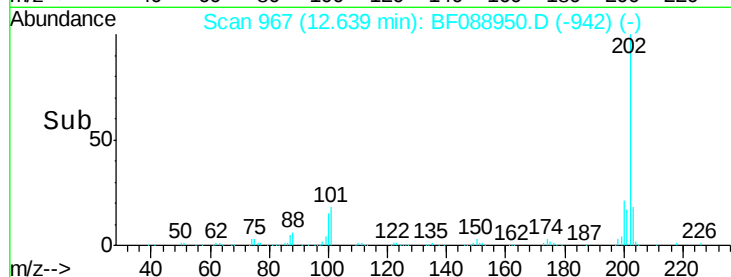
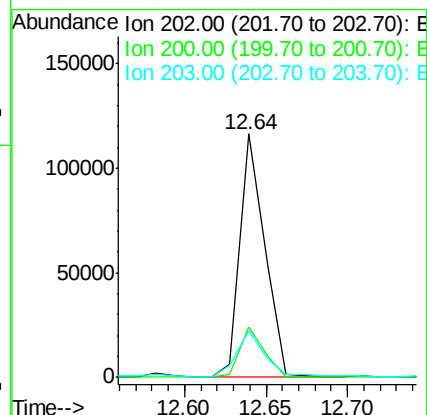
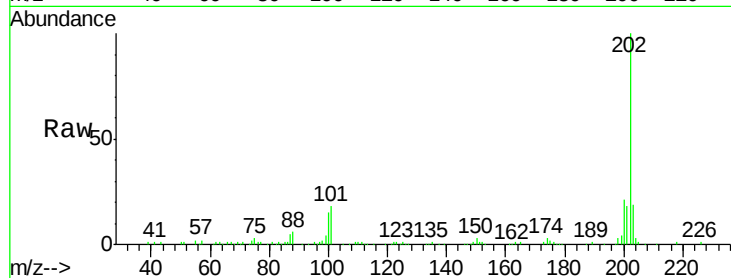




#77
 Pyrene
 Concen: 3751.39 ng
 RT: 12.64 min Scan# 967
 Delta R.T. -0.01 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

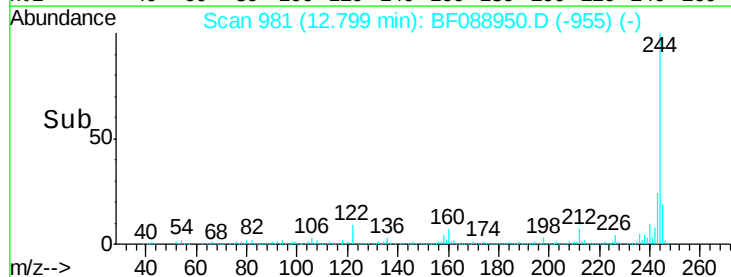
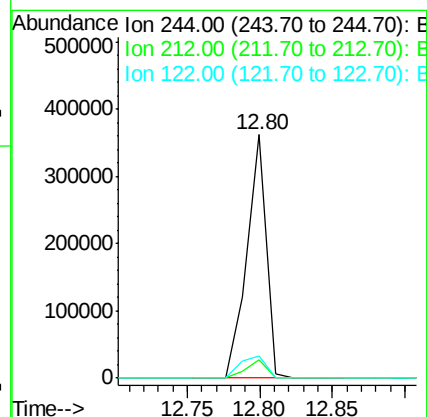
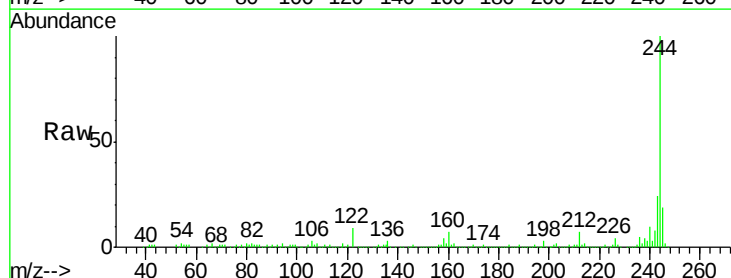
Instrument :
 BNA_F
 ClientSampleId :
 SB-4(4-5)

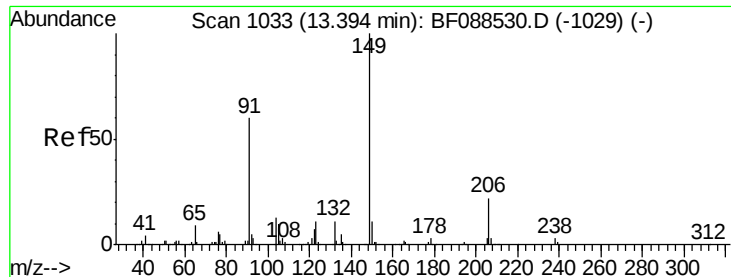
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.2
203	18.9	14.5	21.7



#78
 Terphenyl-d14
 Concen: 19635.60 ng
 RT: 12.80 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.2	11.2	16.8

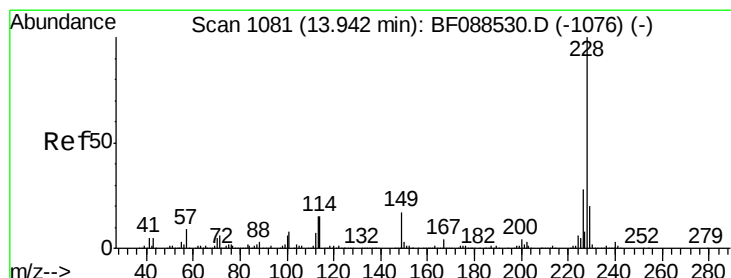
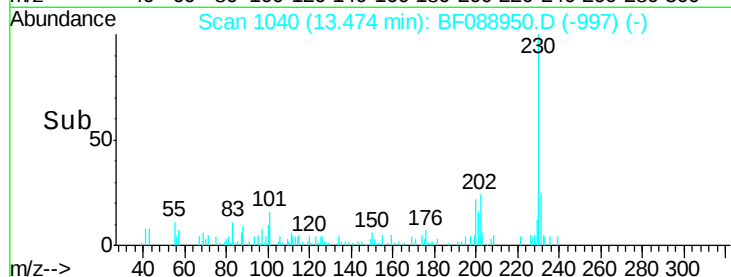
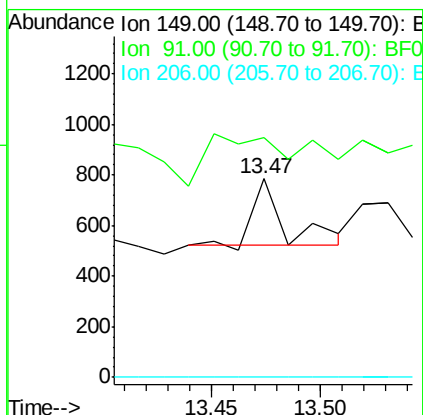
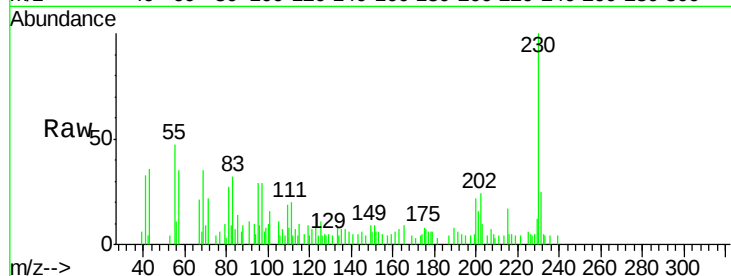




#79
Butylbenzylphthalate
Concen: 17.97 ng
RT: 13.47 min Scan# 1040
Delta R.T. 0.19 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

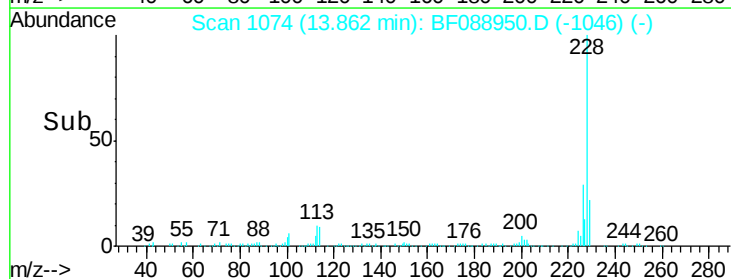
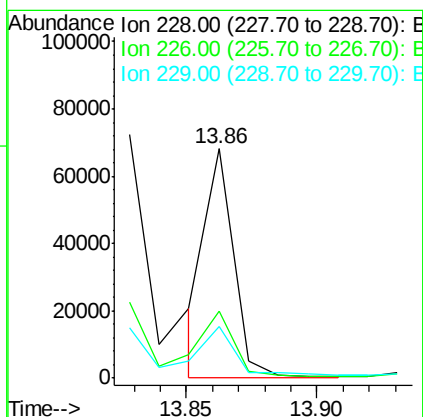
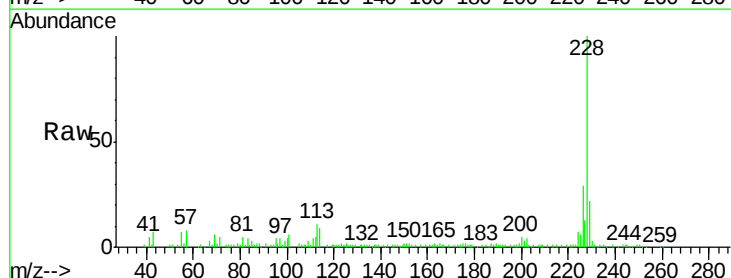
Instrument :
BNA_F
ClientSampleId :
SB-4(4-5)

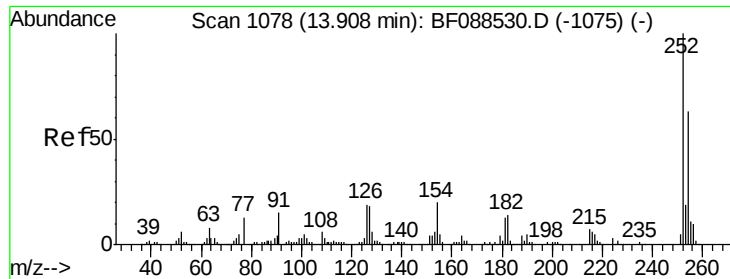
Tgt Ion:149 Resp: 259
Ion Ratio Lower Upper
149 100
91 120.8 48.0 72.0#
206 0.0 16.0 24.0#



#80
Benzo(a)anthracene
Concen: 2089.46 ng
RT: 13.86 min Scan# 1074
Delta R.T. 0.02 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

Tgt Ion:228 Resp: 51261
Ion Ratio Lower Upper
228 100
226 29.1 22.3 33.5
229 22.4 16.0 24.0

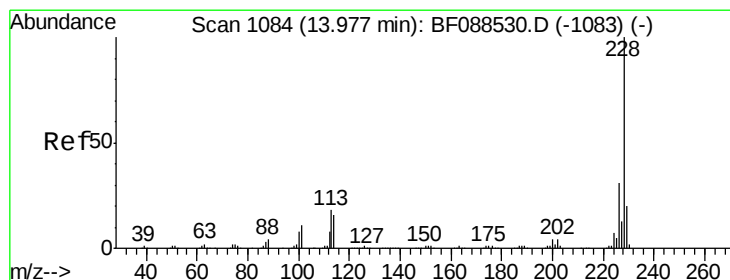
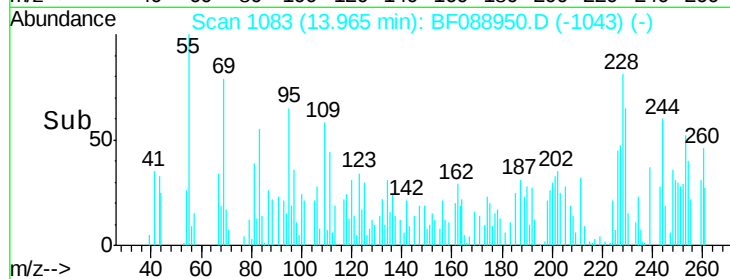
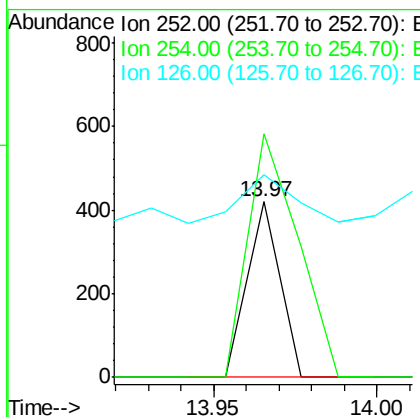
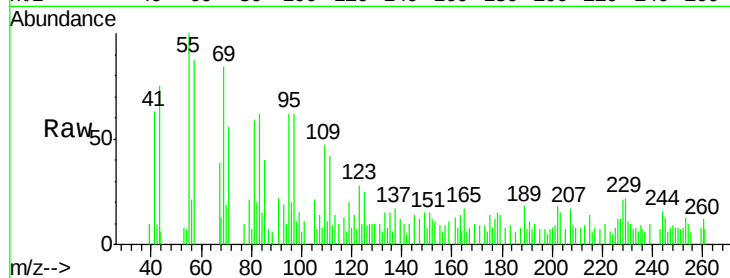




#81
 3,3'-Dichlorobenzidine
 Concen: 31.22 ng
 RT: 13.97 min Scan# 1083
 Delta R.T. 0.16 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

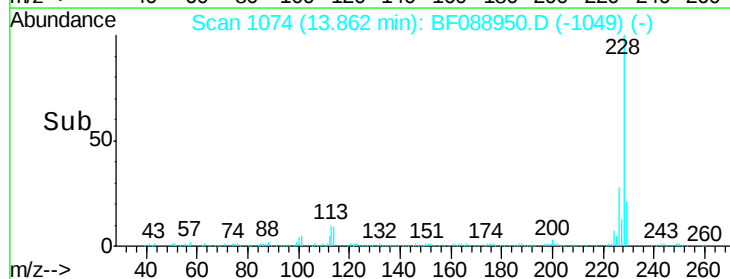
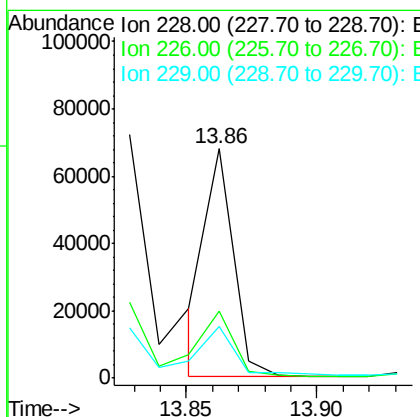
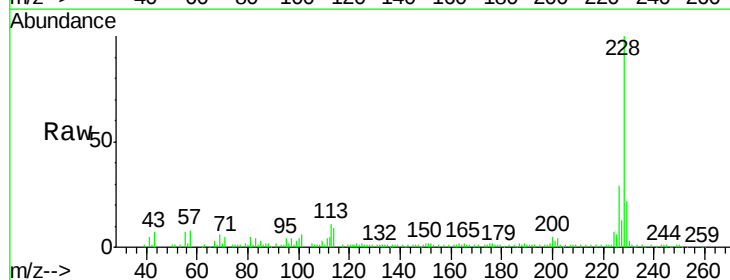
Instrument :
 BNA_F
 ClientSampled :
 SB-4(4-5)

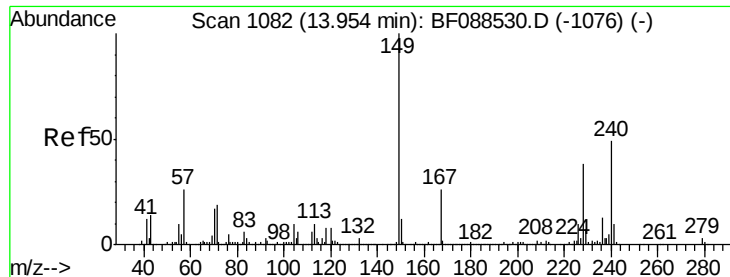
Tgt Ion:252 Resp: 288
 Ion Ratio Lower Upper
 252 100
 254 138.6 52.6 78.8#
 126 115.2 6.2 9.2#



#82
 Chrysene
 Concen: 2071.08 ng
 RT: 13.86 min Scan# 1074
 Delta R.T. -0.01 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion:228 Resp: 50270
 Ion Ratio Lower Upper
 228 100
 226 29.1 25.4 38.2
 229 22.4 16.3 24.5

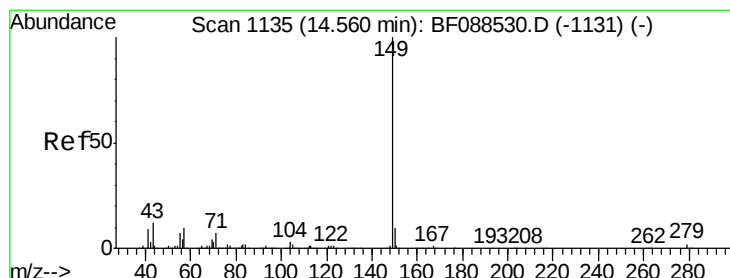
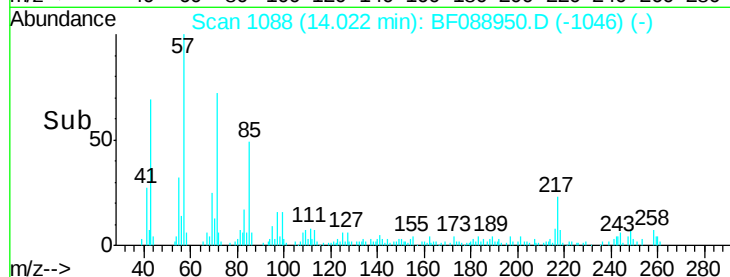
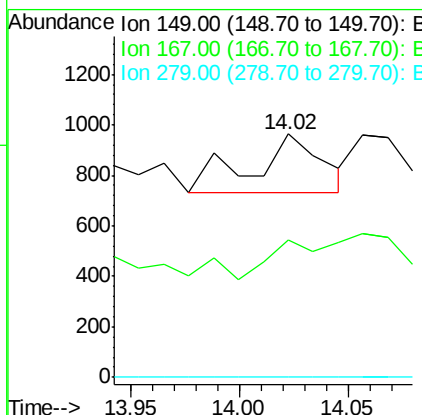
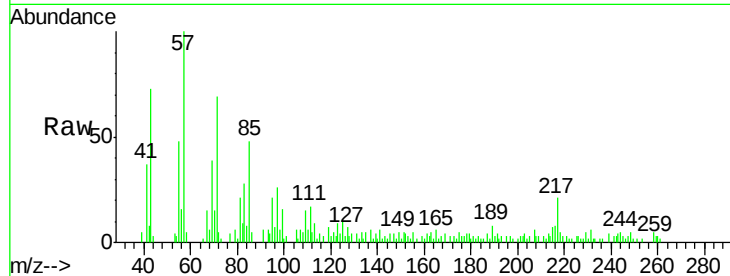




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 31.49 ng
 RT: 14.02 min Scan# 1088
 Delta R.T. 0.18 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

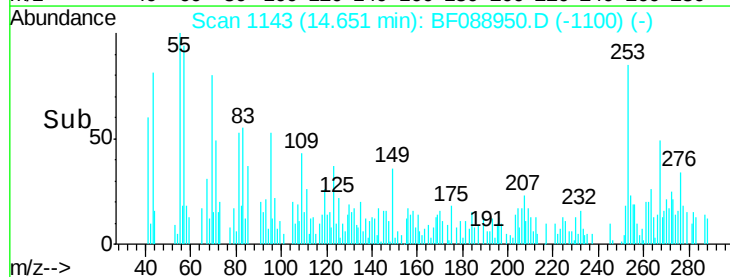
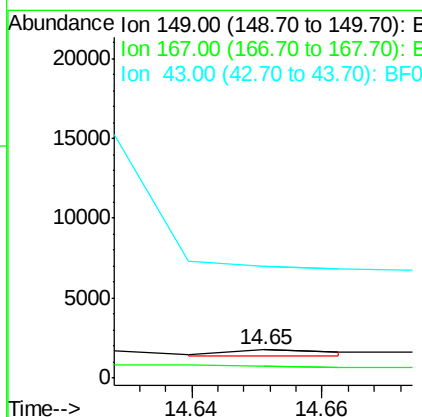
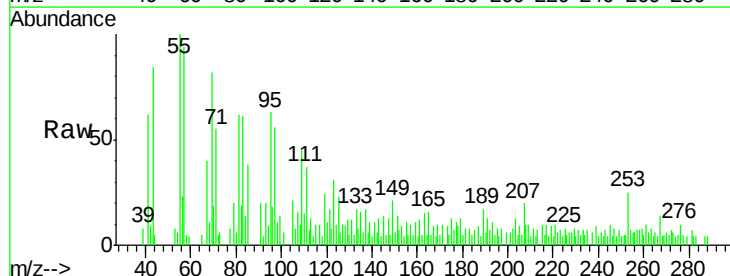
Instrument :
 BNA_F
 ClientSampleId :
 SB-4(4-5)

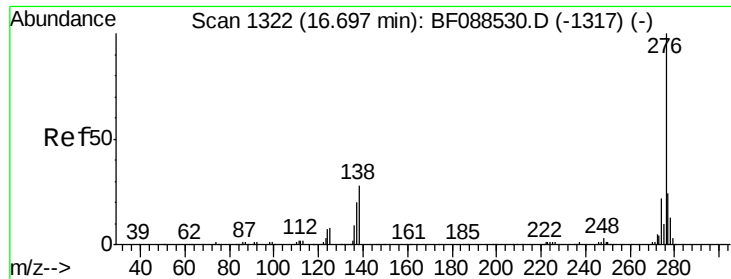
Tgt Ion:149 Resp: 518
 Ion Ratio Lower Upper
 149 100
 167 56.4 20.5 30.7#
 279 0.0 2.0 3.0#



#84
 Di-n-octyl phthalate
 Concen: 13.85 ng
 RT: 14.65 min Scan# 1143
 Delta R.T. 0.19 min
 Lab File: BF088950.D
 Acq: 13 Jul 2016 7:48

Tgt Ion:149 Resp: 387
 Ion Ratio Lower Upper
 149 100
 167 0.0 0.0 0.0
 43 0.0 0.0 0.0

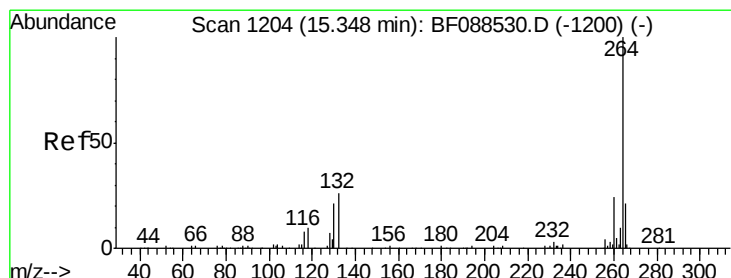
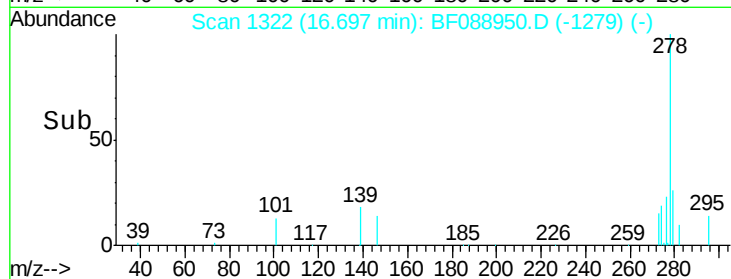
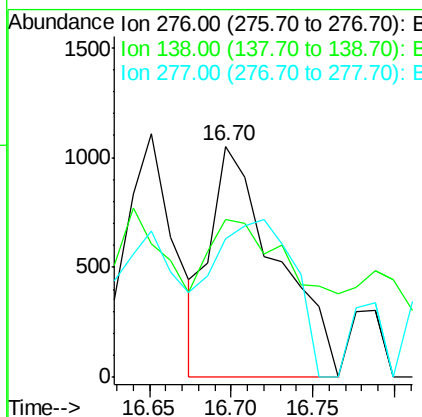
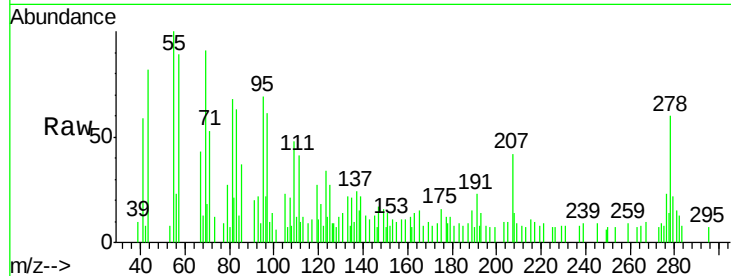




#85
Indeno(1,2,3-cd)pyrene
Concen: 157.33 ng
RT: 16.70 min Scan# 1322
Delta R.T. 0.19 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

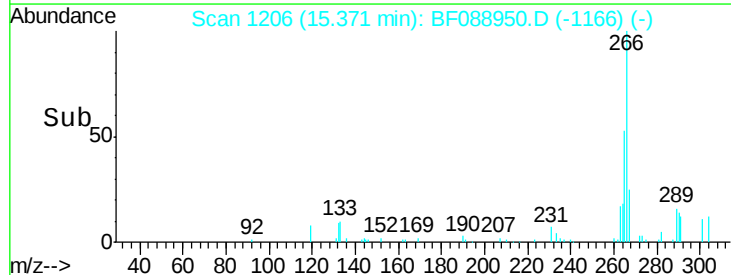
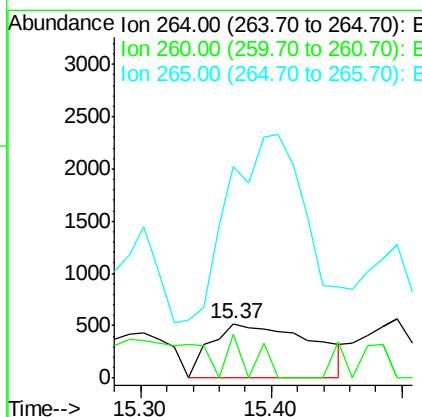
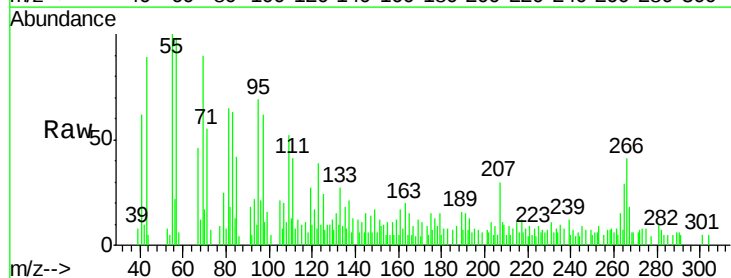
Instrument :
BNA_F
ClientSampleId :
SB-4(4-5)

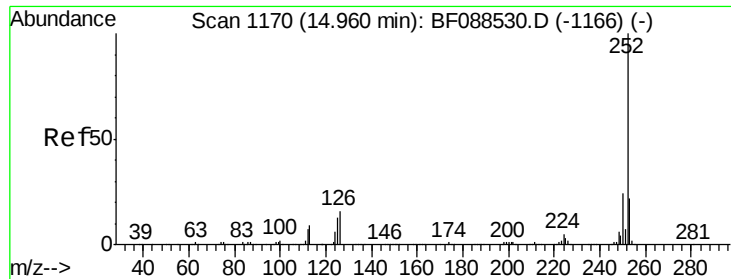
Tgt Ion: 276 Resp: 2938
Ion Ratio Lower Upper
276 100
138 31.2 0.0 0.0#
277 0.0 0.0 0.0



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.37 min Scan# 1206
Delta R.T. 0.16 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

Tgt Ion: 264 Resp: 2777
Ion Ratio Lower Upper
264 100
260 80.3 19.2 28.8#
265 391.7 16.9 25.3#

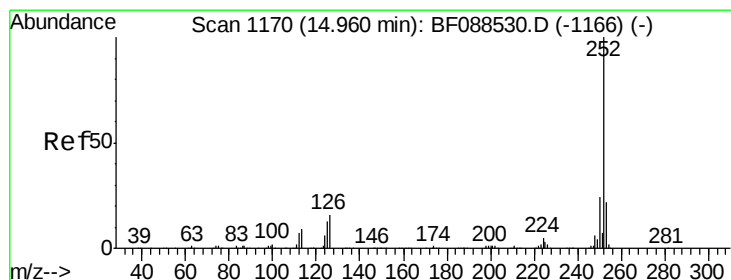
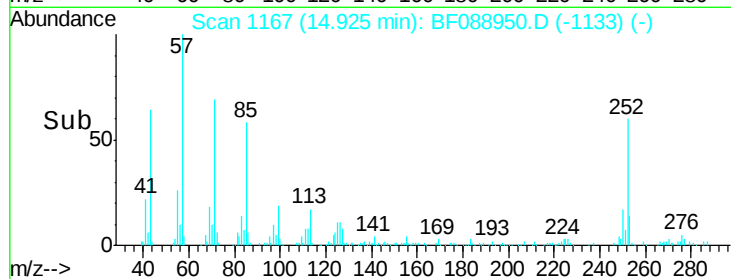
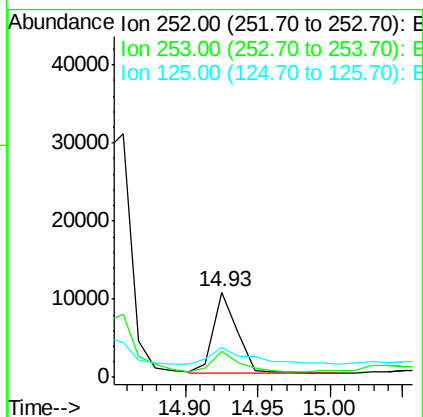
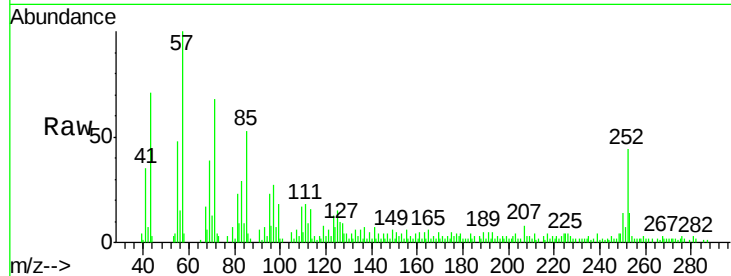




#87
Benzo(b)fluoranthene
Concen: 69.05 ng
RT: 14.93 min Scan# 1167
Delta R.T. 0.09 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

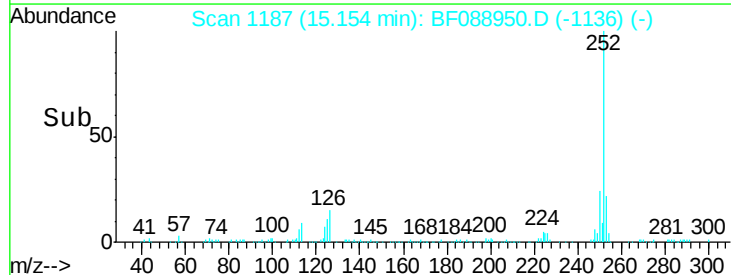
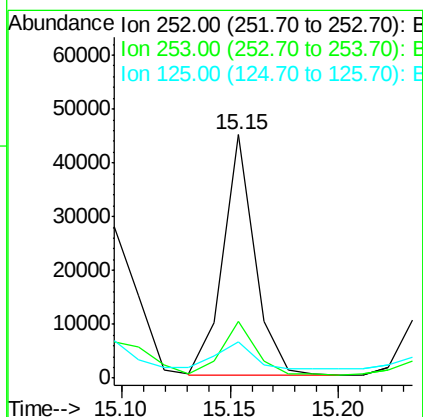
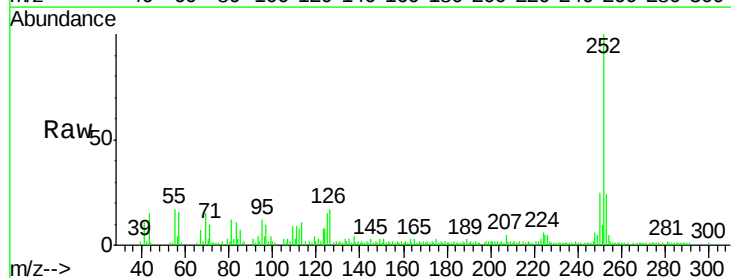
Instrument :
BNA_F
ClientSampleId :
SB-4(4-5)

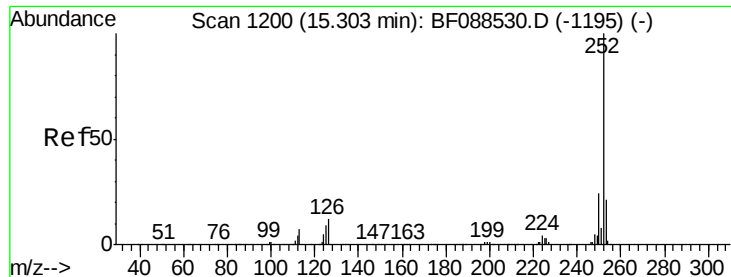
Tgt Ion	Ratio	Lower	Upper
252	100		
253	31.1	17.4	26.2#
125	34.5	7.1	10.7#



#88
Benzo(k)fluoranthene
Concen: 299.65 ng
RT: 15.15 min Scan# 1187
Delta R.T. 0.29 min
Lab File: BF088950.D
Acq: 13 Jul 2016 7:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	14.9	11.2	16.8





#89

Benzo(a)pyrene

Concen: 305.42 ng

RT: 15.15 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampled :

SB-4(4-5)

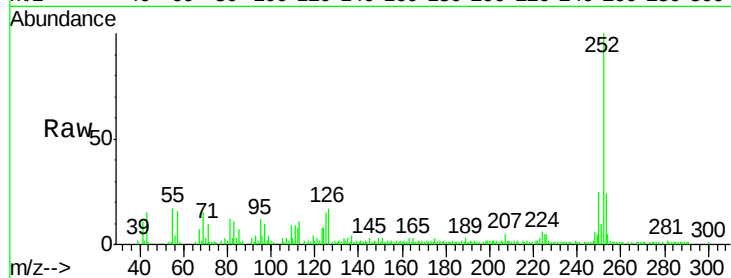
Tgt Ion:252 Resp: 45048

Ion Ratio Lower Upper

252 100

253 23.5 17.9 26.9

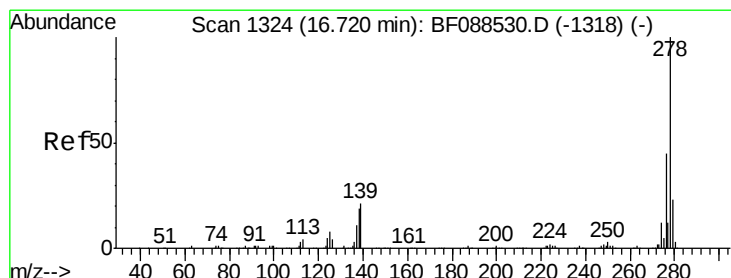
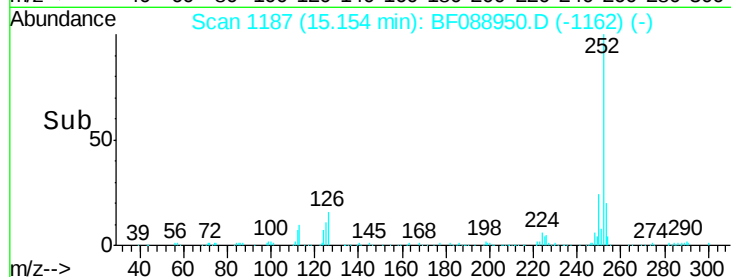
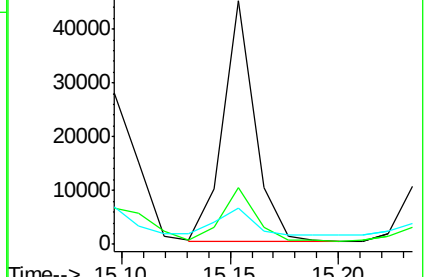
125 14.9 12.5 18.7



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: 59.17 ng

RT: 16.70 min Scan# 1322

Delta R.T. 0.18 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

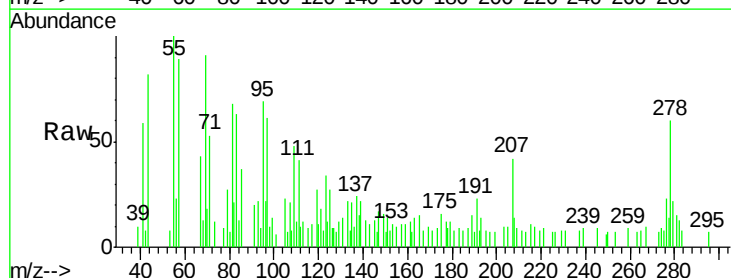
Tgt Ion:278 Resp: 7288

Ion Ratio Lower Upper

278 100

139 35.8 15.7 23.5#

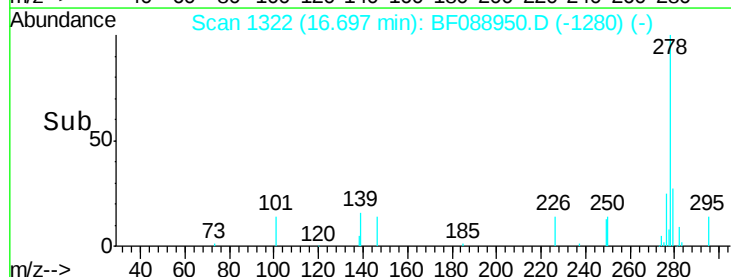
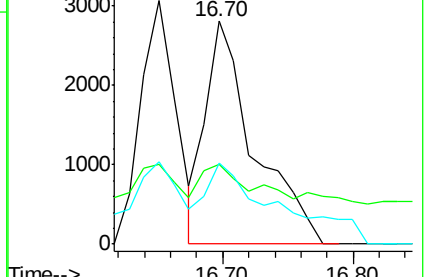
279 36.2 19.4 29.2#

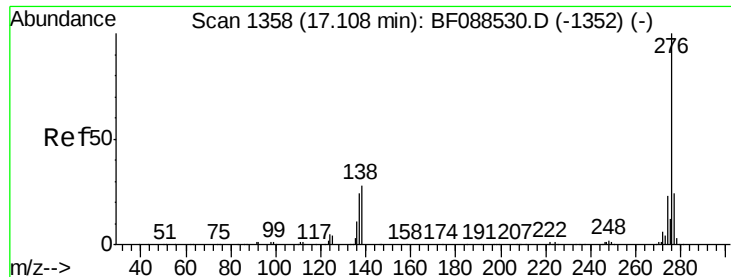


Abundance Ion 278.00 (277.70 to 278.70): E

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: 182.72 ng

RT: 16.88 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

Instrument :

BNA_F

ClientSampleId :

SB-4(4-5)

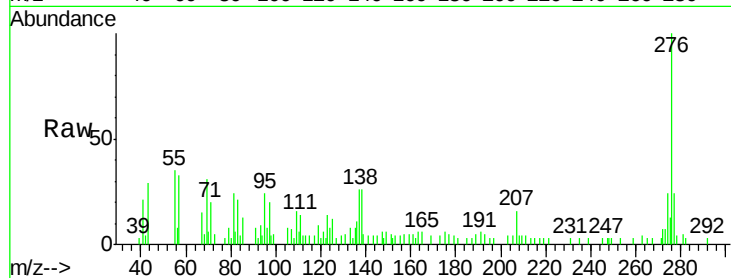
Tgt Ion: 276 Resp: 23288

Ion Ratio Lower Upper

276 100

277 24.5 18.9 28.3

138 25.5 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

16.88

10000

5000

0

Time-->

