

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

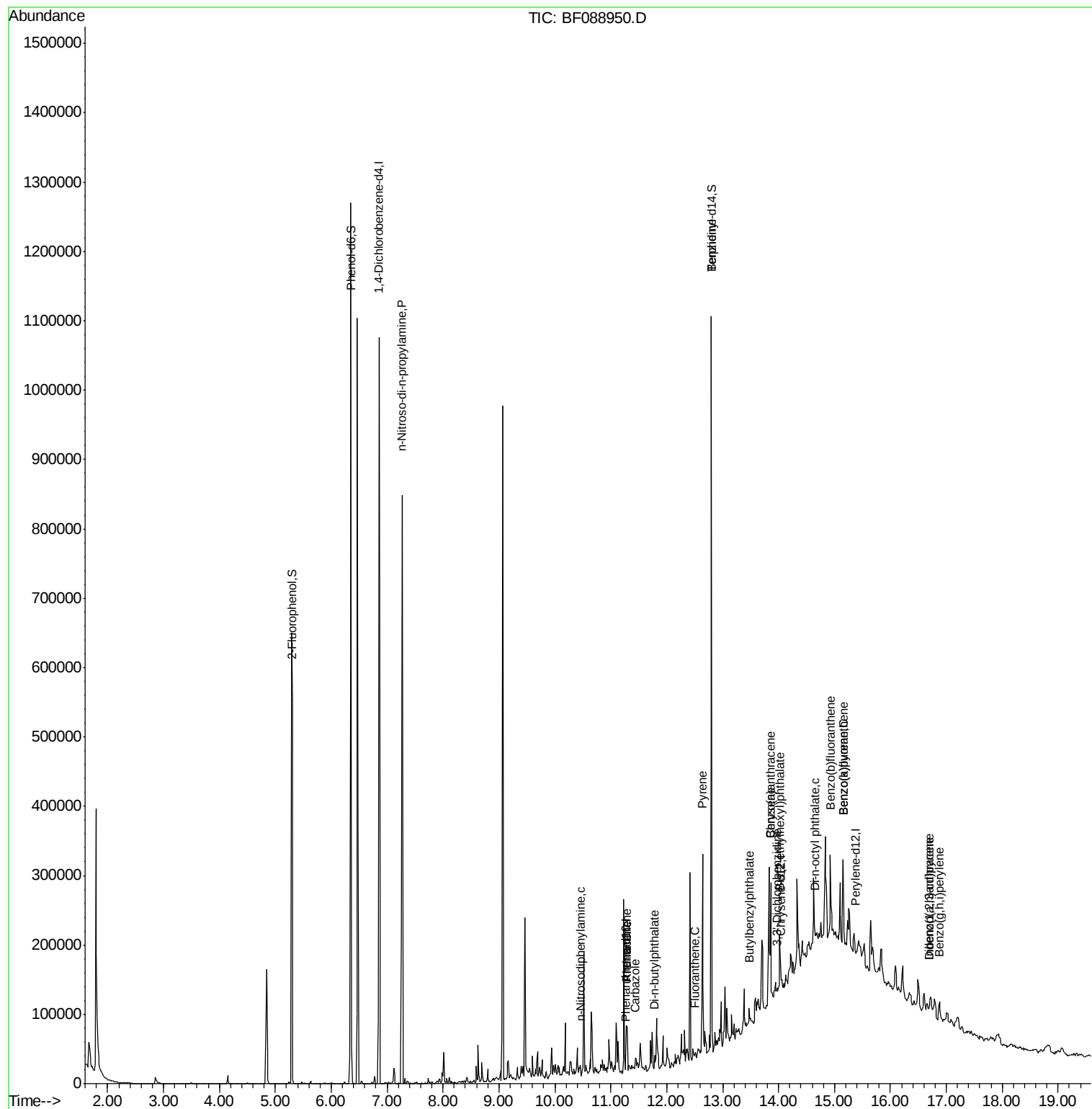
| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 159209   | 20.00    | ng    | 0.15     |
| 21) Naphthalene-d8             | 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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SB-4(4-5)

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Response via : Initial Calibration





#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)

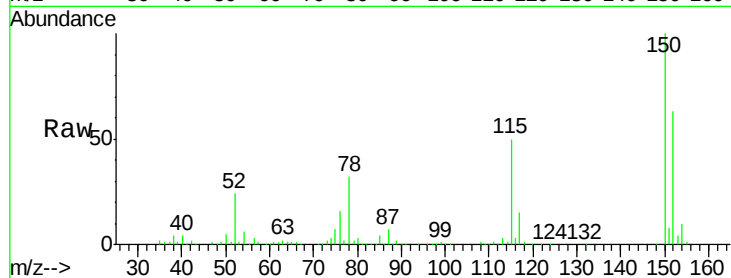
Tot Ion:152 Resp: 159209

Ion Ratio Lower Upper

152 100

150 158.2 123.8 185.6

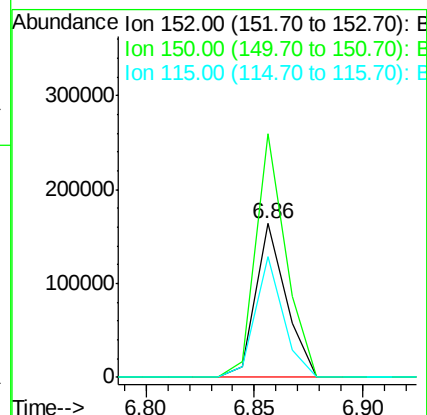
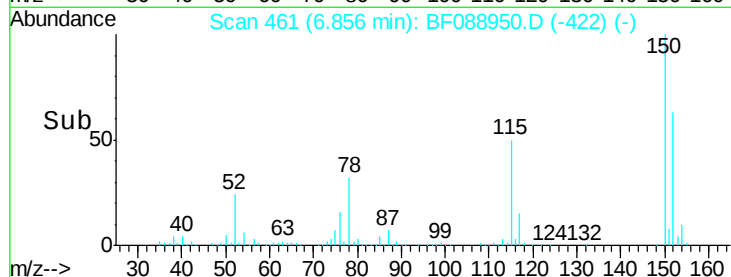
115 78.8 39.6 59.4#



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

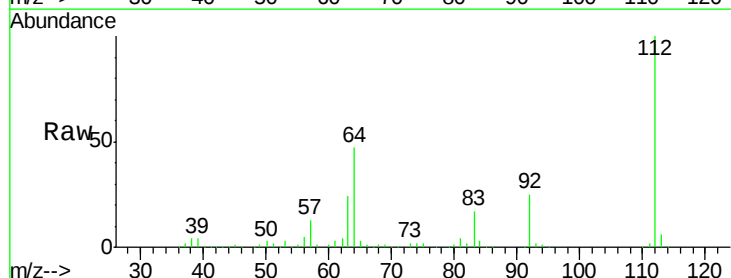
Tgt Ion:112 Resp: 250211

Ion Ratio Lower Upper

112 100

64 46.6 42.2 63.2

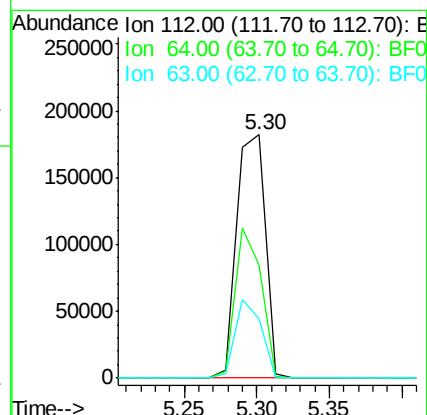
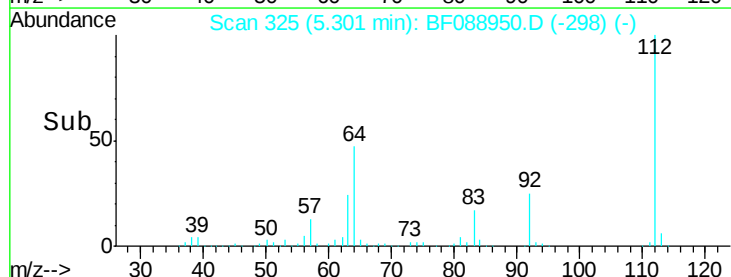
63 24.1 21.8 32.8

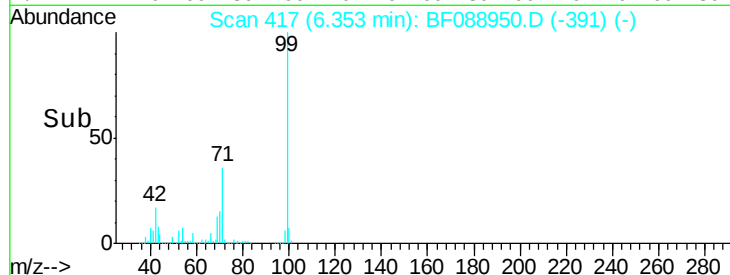
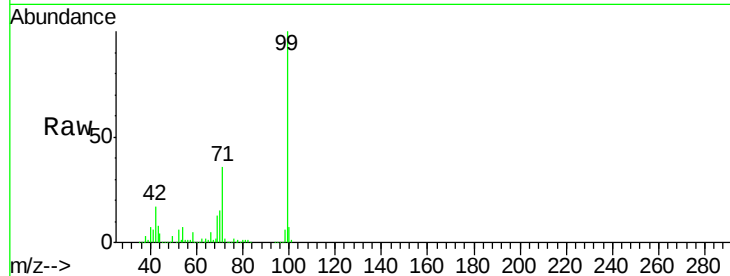


Abundance Ion 112.00 (111.70 to 112.70): E

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)

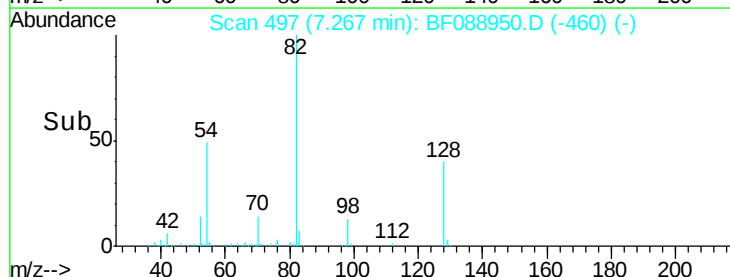
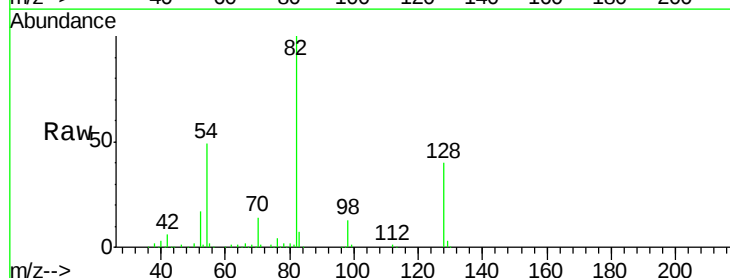
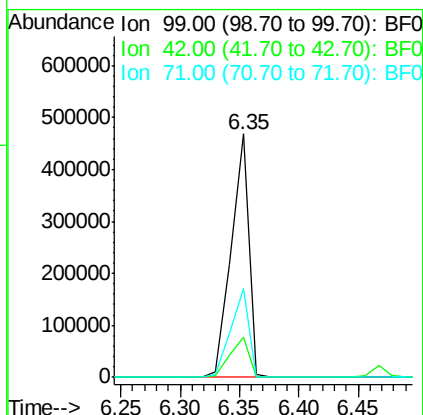
Tot Ion: 99 Resp: 484000

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

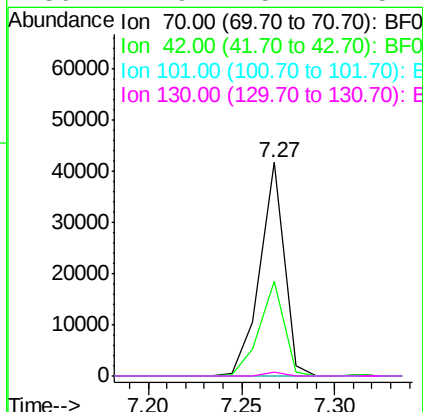
Ion Ratio Lower Upper

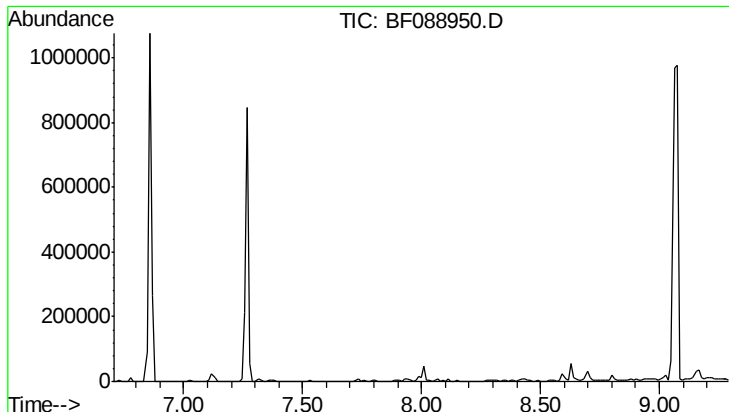
70 100

42 44.3 49.6 74.4#

101 0.0 7.1 10.7#

130 1.9 15.4 23.2#

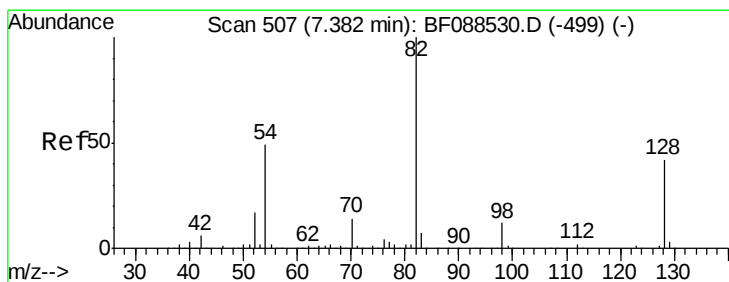
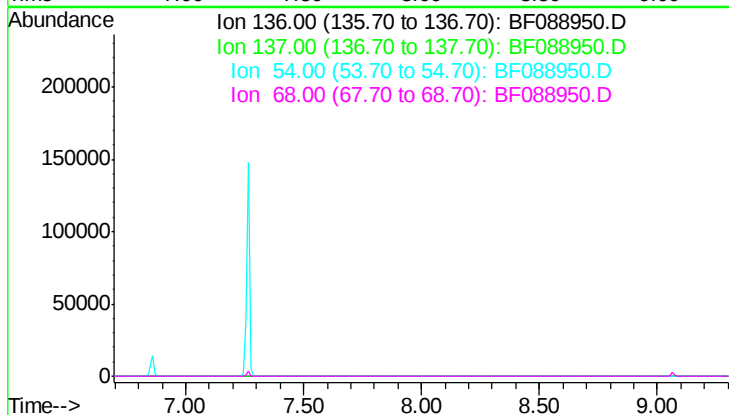




#21  
Naphthalene-d8  
Concen: 0.00 ng  
Expected RT: 8.00 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

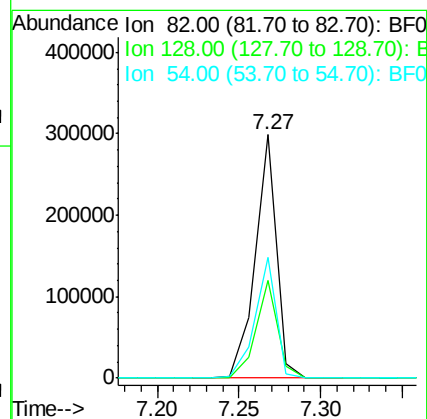
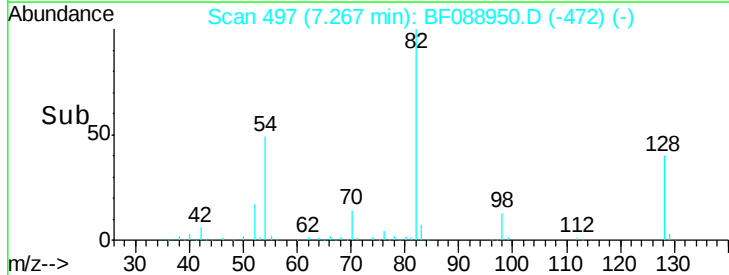
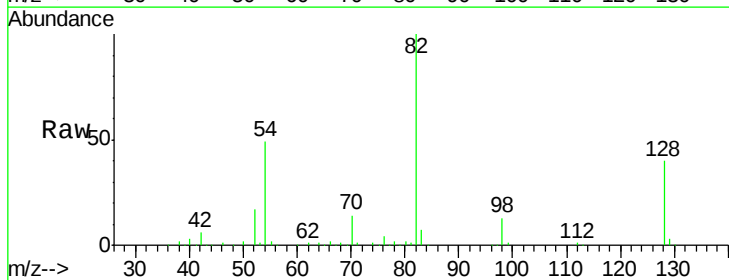
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(4-5)

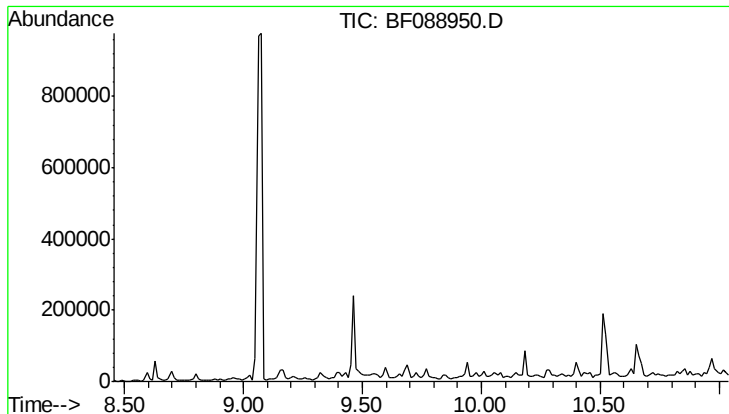
Tot Ion: 136  
Sig Exp Ratio  
136 100  
137 11.4  
54 8.3  
68 6.4



#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)

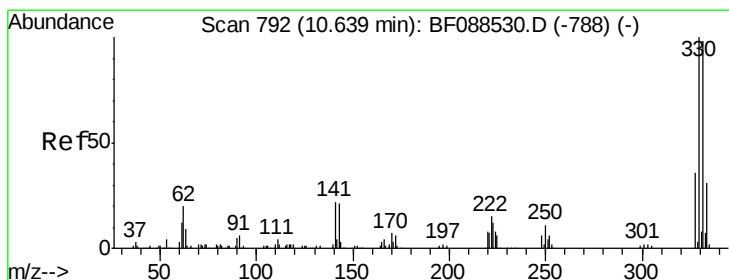
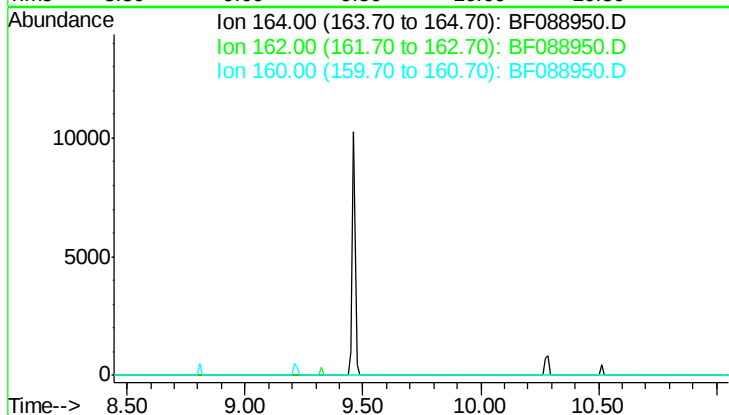
Tot Ion: 164

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

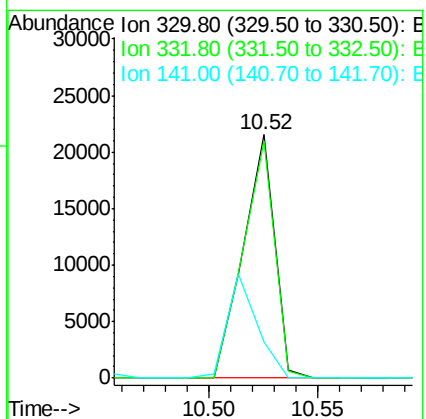
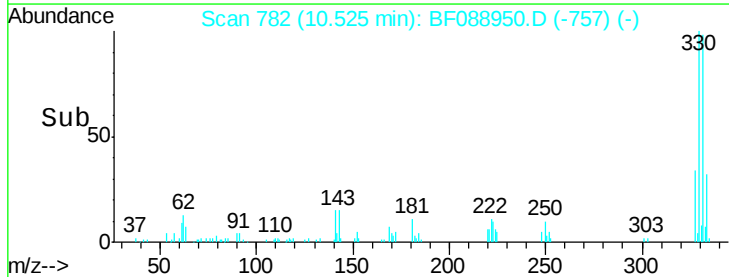
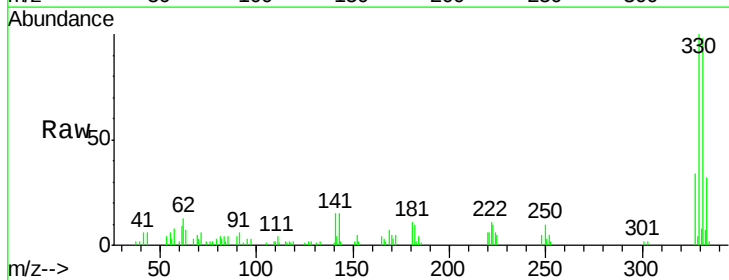
Tgt Ion: 330 Resp: 21544

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)

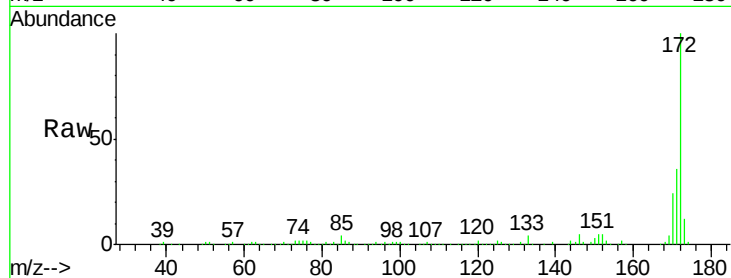
Tot Ion:172 Resp: 472673

Ion Ratio Lower Upper

172 100

171 36.0 28.6 43.0

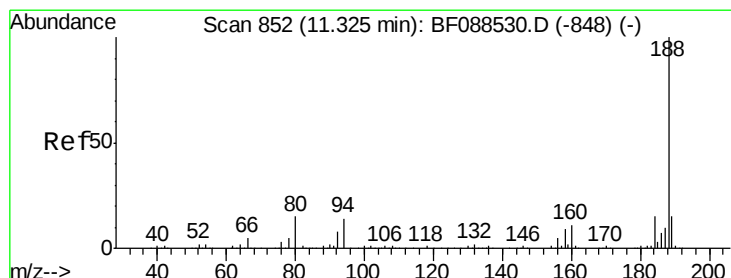
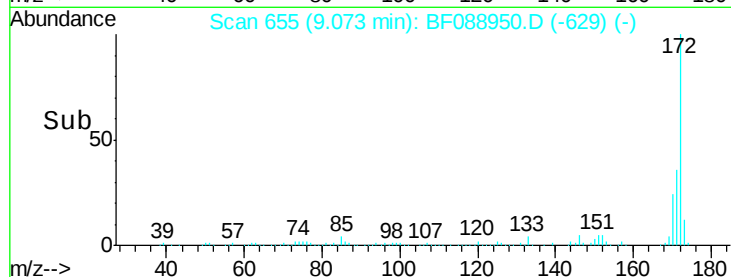
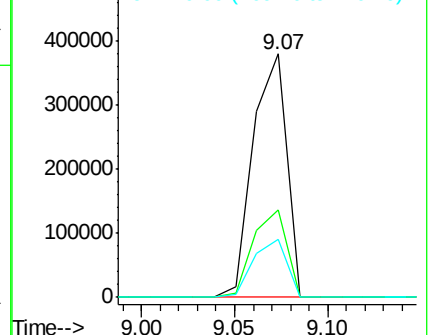
170 23.7 19.2 28.8



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

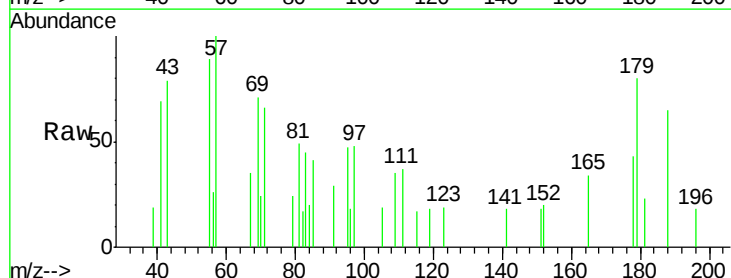
Tgt Ion:188 Resp: 798

Ion Ratio Lower Upper

188 100

94 0.0 9.0 13.6#

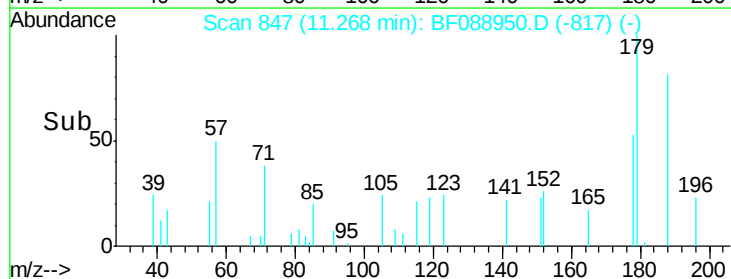
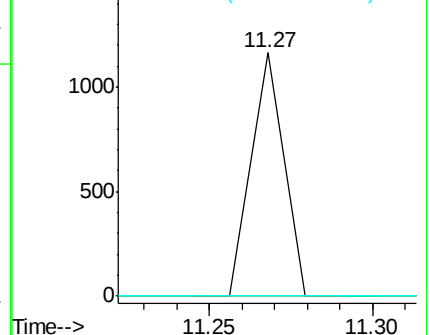
80 0.0 10.0 15.0#

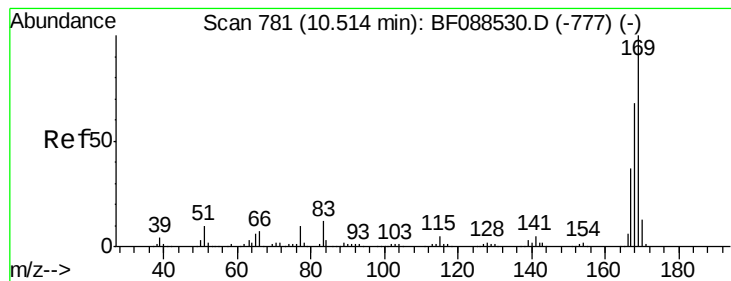


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

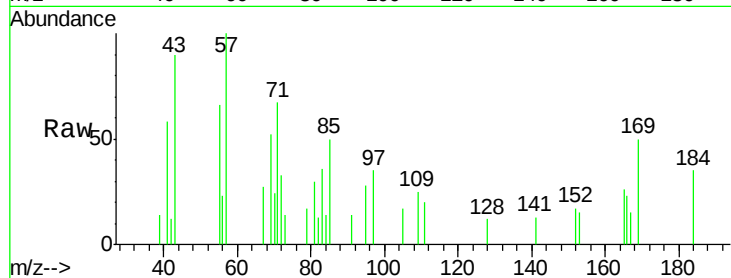




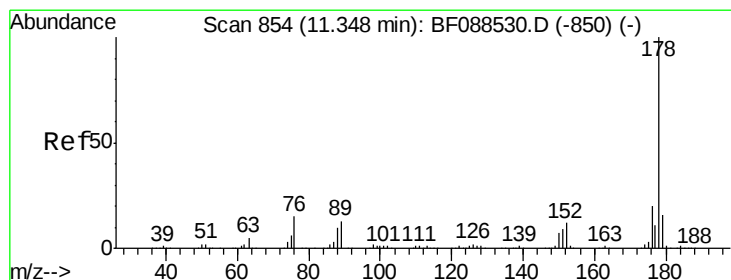
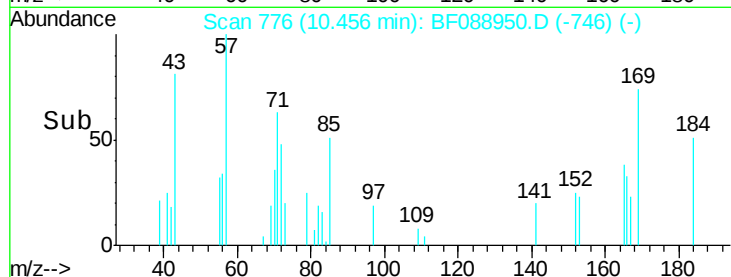
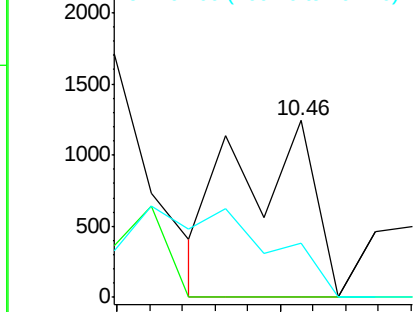
#65  
n-Nitrosodiphenylamine  
Concen: 74.79 ng  
RT: 10.46 min Scan# 776  
Delta R.T. 0.05 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

Instrument :  
BNA\_F  
ClientSampled :  
SB-4(4-5)

Tot Ion:169 Resp: 2020  
Ion Ratio Lower Upper  
169 100  
168 0.0 53.4 80.0#  
167 30.7 29.4 44.0

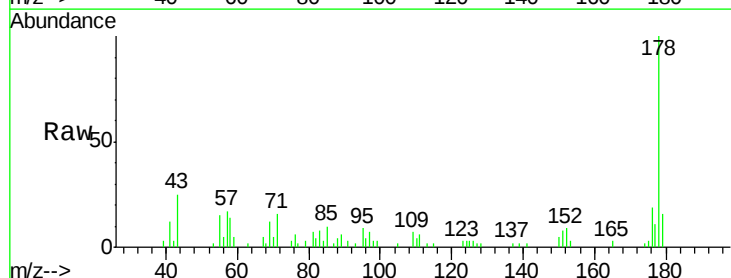


Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E

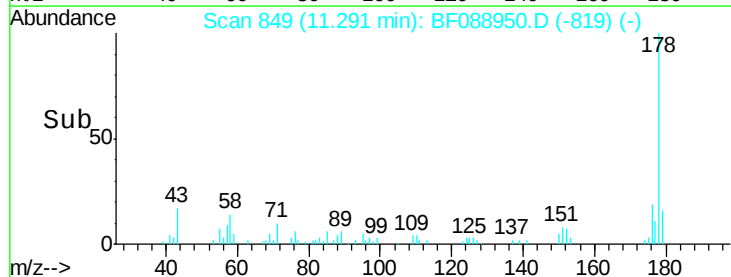
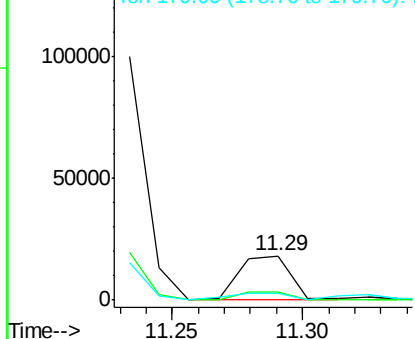


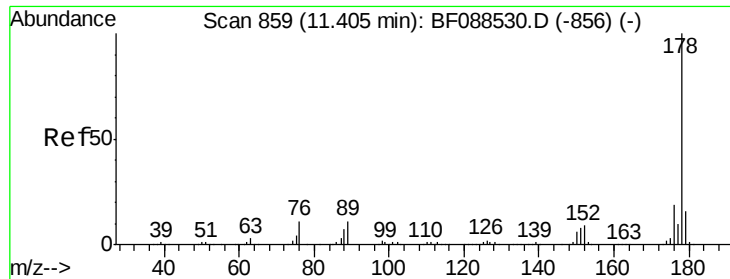
#70  
Phenanthrene  
Concen: 555.86 ng  
RT: 11.29 min Scan# 849  
Delta R.T. 0.05 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

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

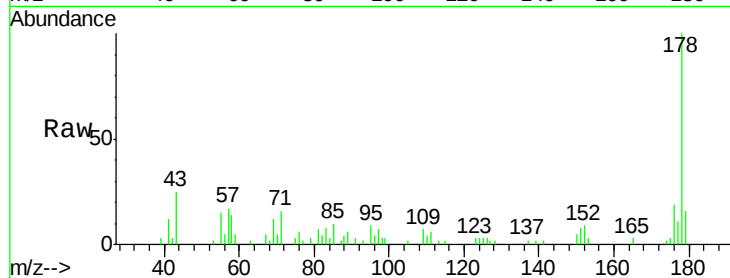




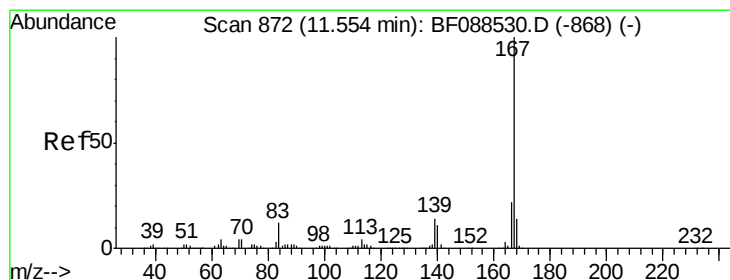
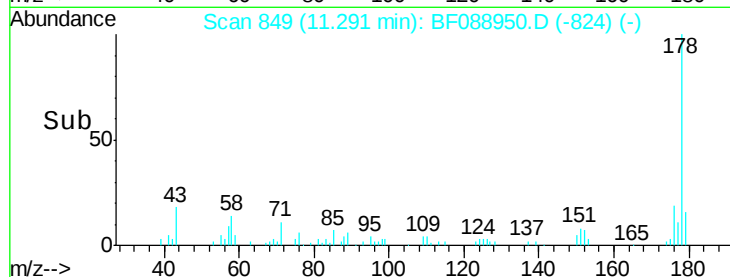
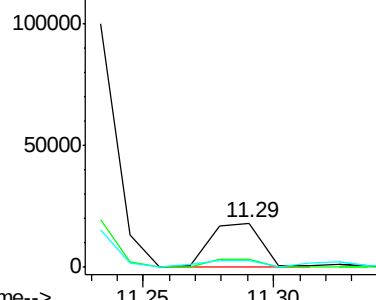
#71  
 Anthracene  
 Concen: 559.06 ng  
 RT: 11.29 min Scan# 849  
 Delta R.T. -0.01 min  
 Lab File: BF088950.D  
 Acq: 13 Jul 2016 7:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(4-5)

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

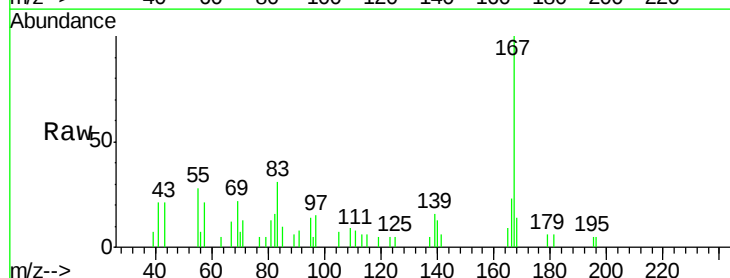


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

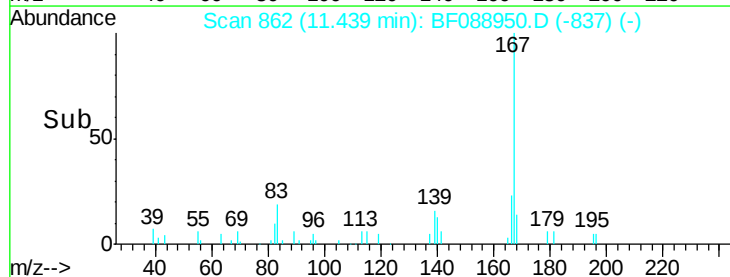
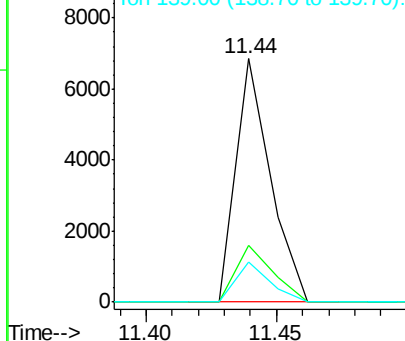


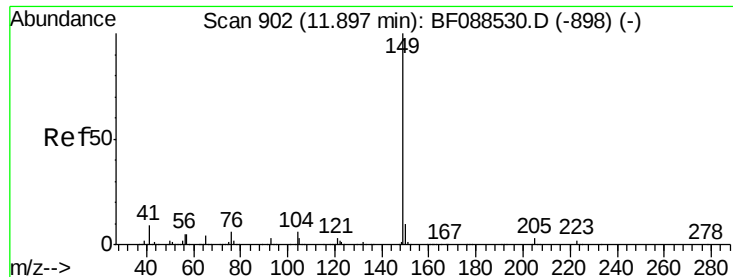
#72  
 Carbazole  
 Concen: 155.45 ng  
 RT: 11.44 min Scan# 862  
 Delta R.T. -0.01 min  
 Lab File: BF088950.D  
 Acq: 13 Jul 2016 7:48

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)

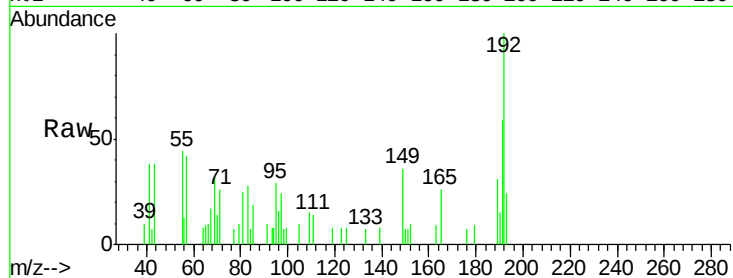
Tot Ion:149 Resp: 1557

Ion Ratio Lower Upper

149 100

150 18.6 7.8 11.6#

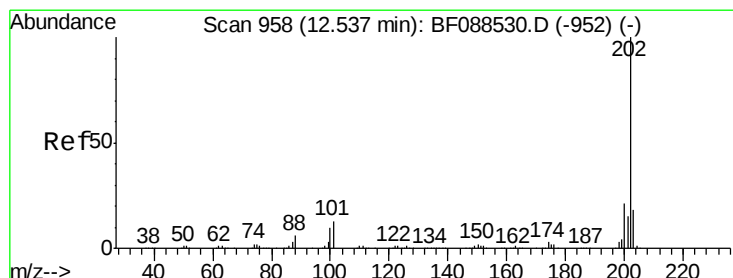
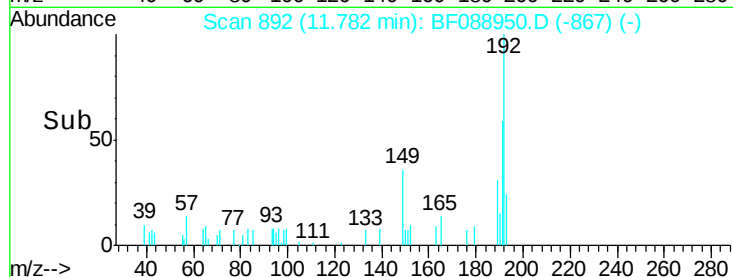
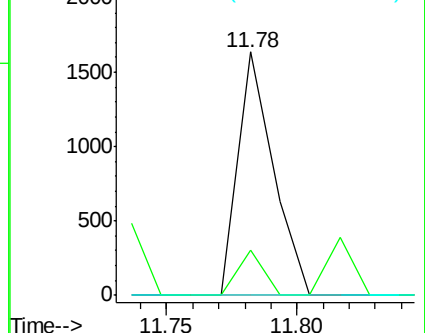
104 0.0 4.0 6.0#



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

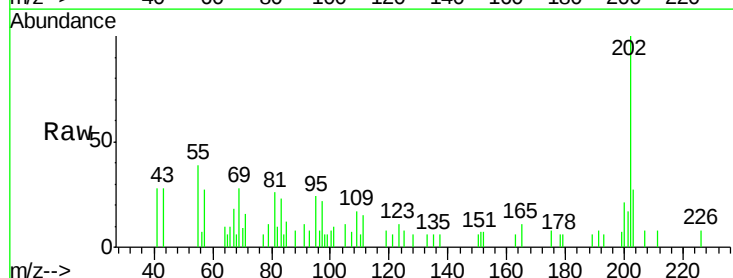
Tgt Ion:202 Resp: 6990

Ion Ratio Lower Upper

202 100

101 9.9 0.0 33.1

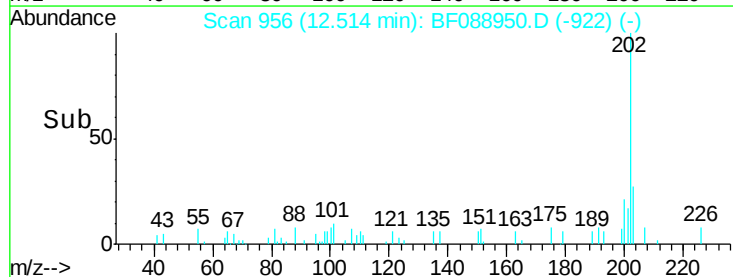
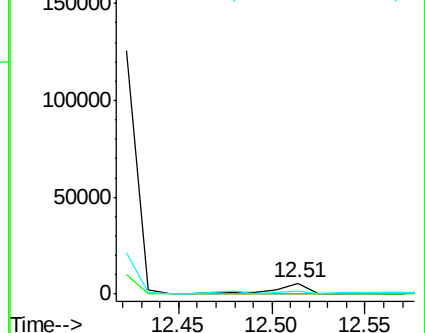
203 27.5 0.0 38.1

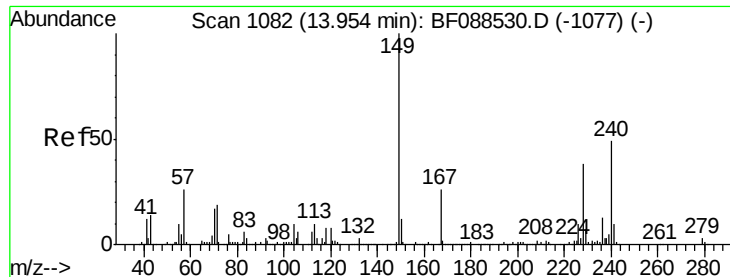


Abundance Ion 202.00 (201.70 to 202.70): E

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)

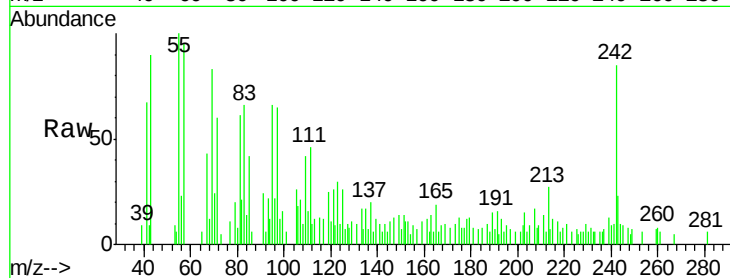
Tot Ion:240 Resp: 381

Ion Ratio Lower Upper

240 100

120 118.4 6.8 10.2#

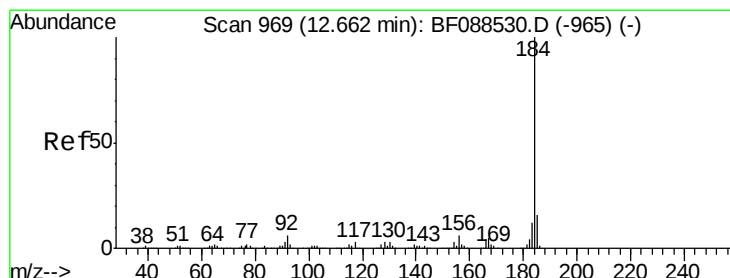
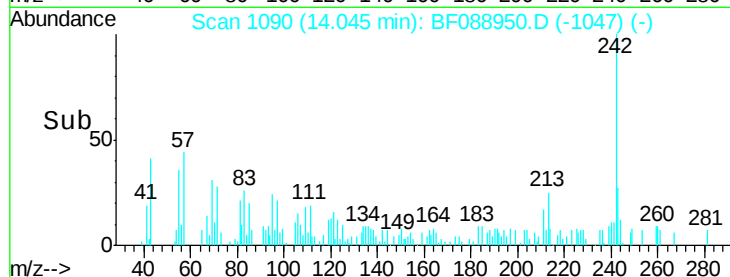
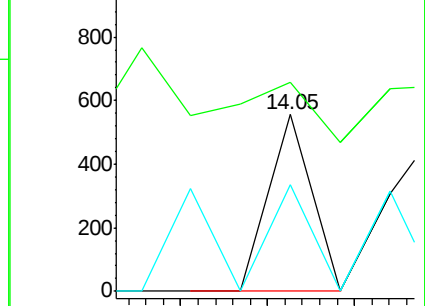
236 60.2 20.2 30.2#



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

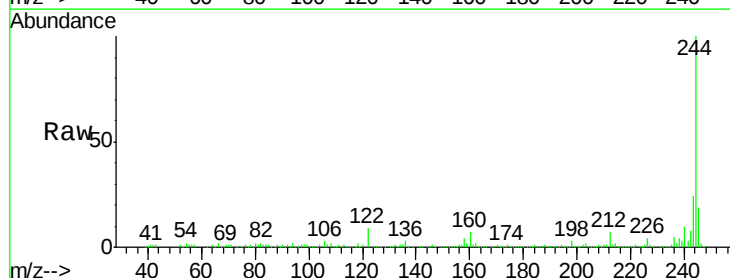
Tgt Ion:184 Resp: 5467

Ion Ratio Lower Upper

184 100

185 21.0 12.5 18.7#

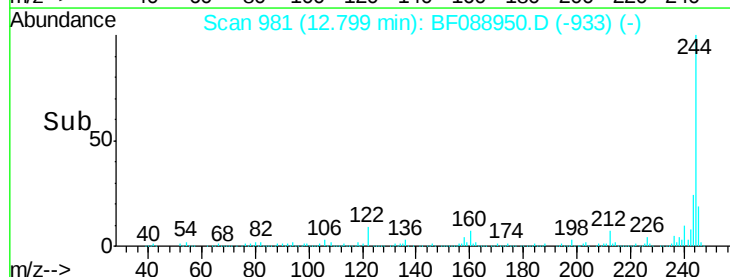
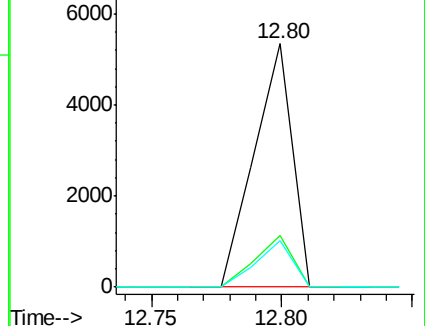
183 19.1 9.3 13.9#

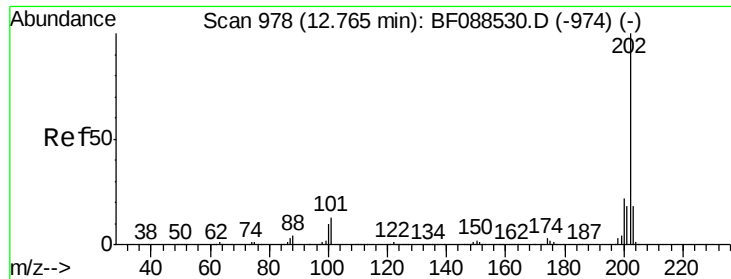


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

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

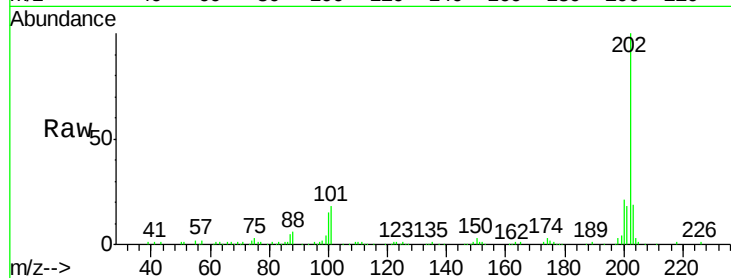
Instrument :

BNA\_F

ClientSampleId :

SB-4(4-5)

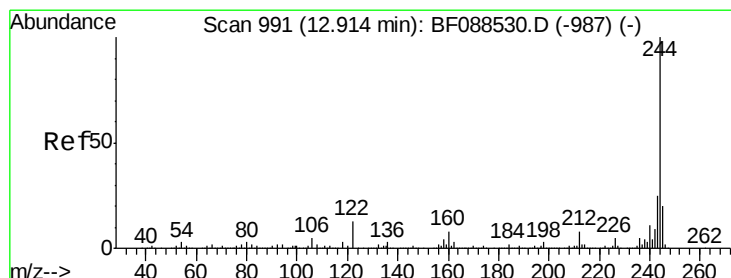
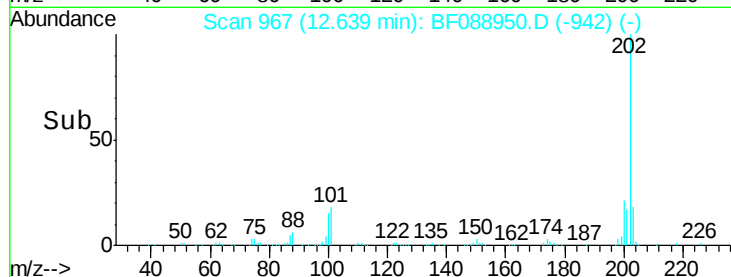
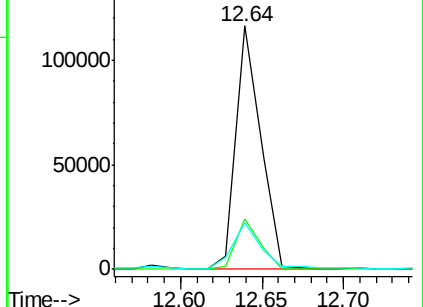
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 121187 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 20.8  | 17.4  | 26.2   |
| 203      | 18.9  | 14.5  | 21.7   |



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: 19635.60 ng

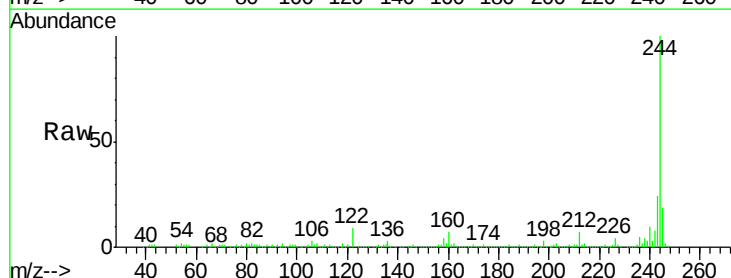
RT: 12.80 min Scan# 981

Delta R.T. 0.00 min

Lab File: BF088950.D

Acq: 13 Jul 2016 7:48

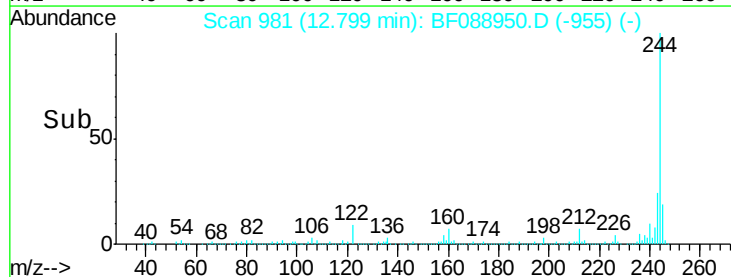
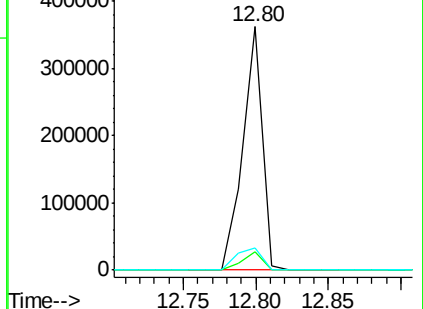
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 335880 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.3   | 6.0   | 9.0    |
| 122      | 9.2   | 11.2  | 16.8#  |

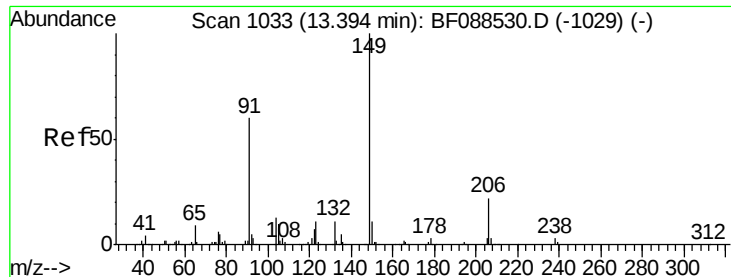


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

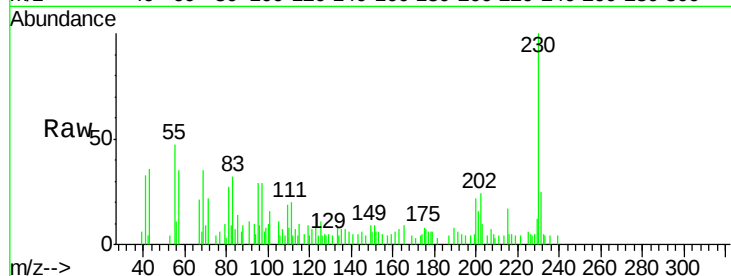




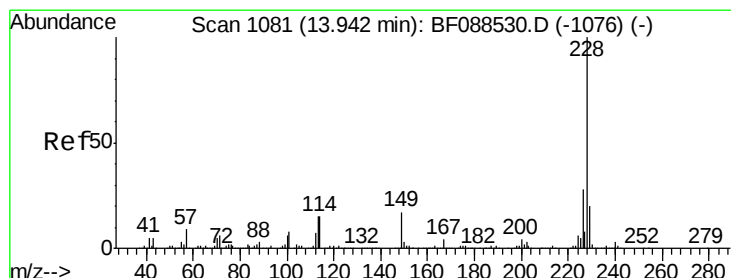
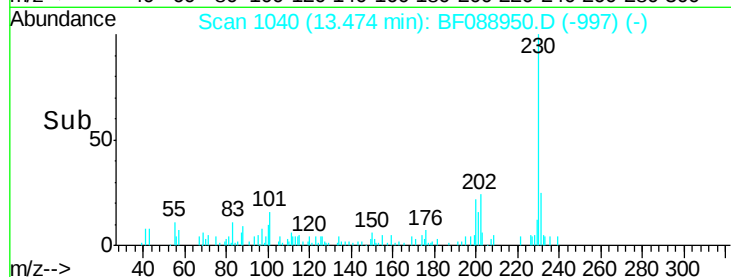
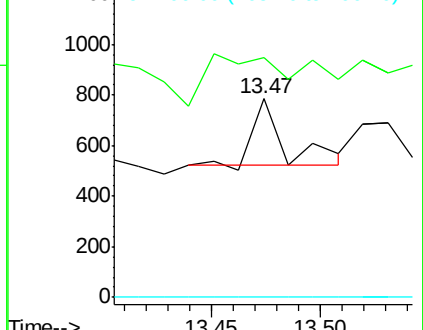
#79  
Butylbenzylphthalate  
Concen: 17.97 ng  
RT: 13.47 min Scan# 1040  
Delta R.T. 0.19 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(4-5)

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

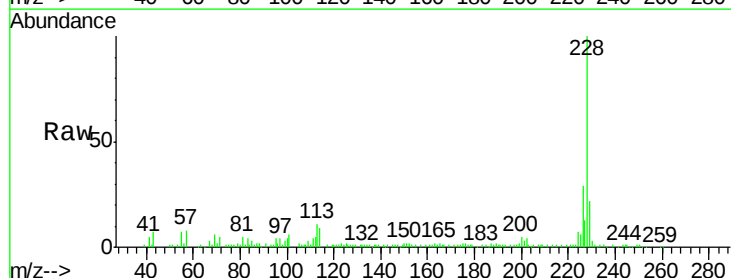


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF0  
Ion 206.00 (205.70 to 206.70): E

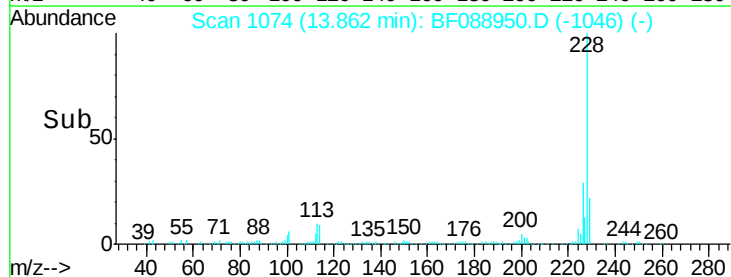
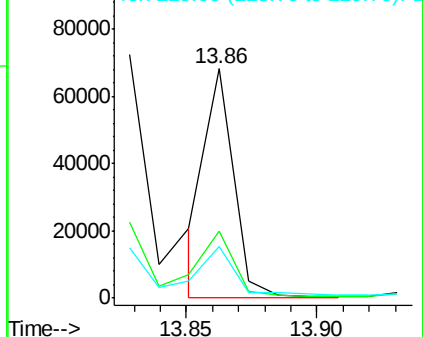


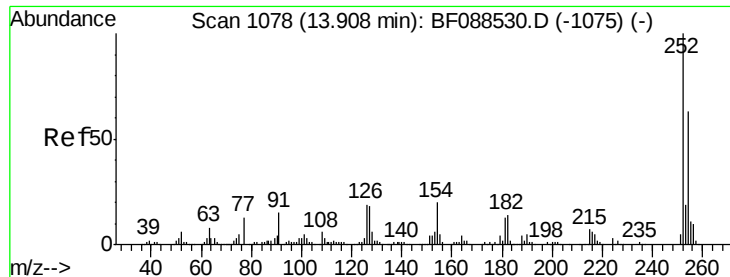
#80  
Benzo(a)anthracene  
Concen: 2089.46 ng  
RT: 13.86 min Scan# 1074  
Delta R.T. 0.02 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

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



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

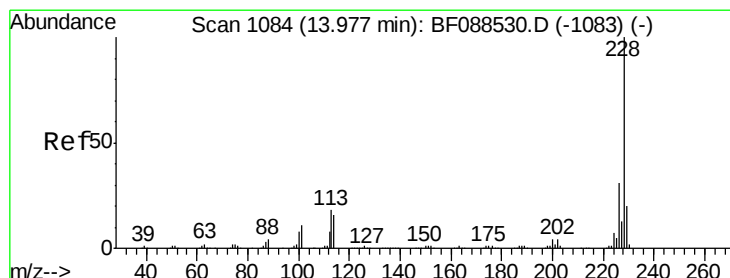
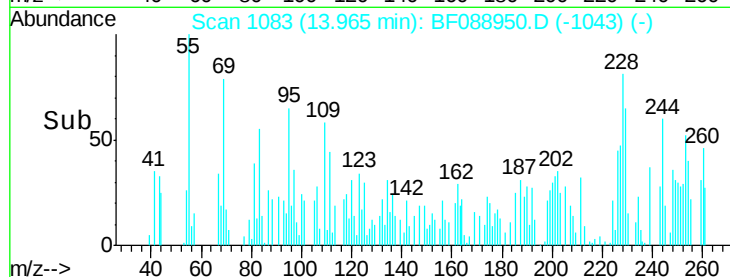
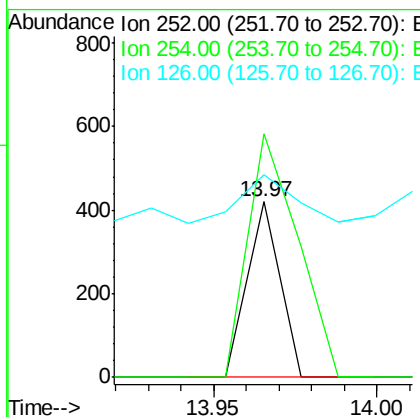
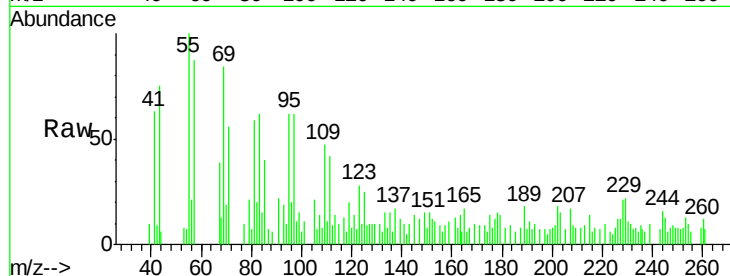




#81  
 3,3'-Dichlorobenzidine  
 Concen: 31.22 ng  
 RT: 13.97 min Scan# 1083  
 Delta R.T. 0.16 min  
 Lab File: BF088950.D  
 Acq: 13 Jul 2016 7:48

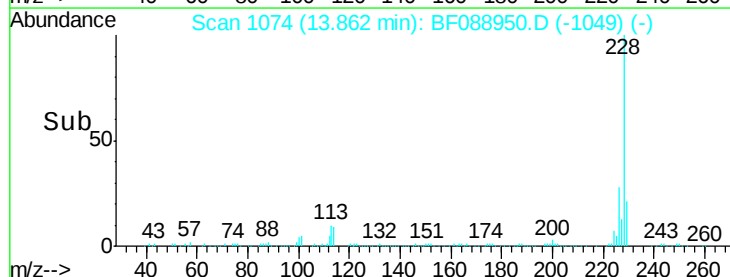
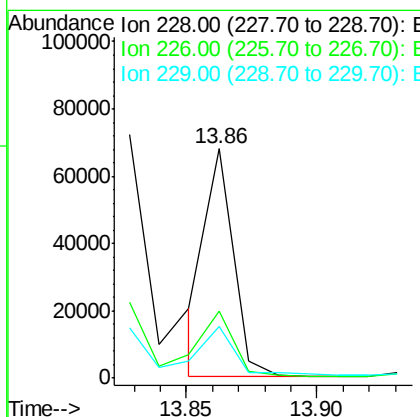
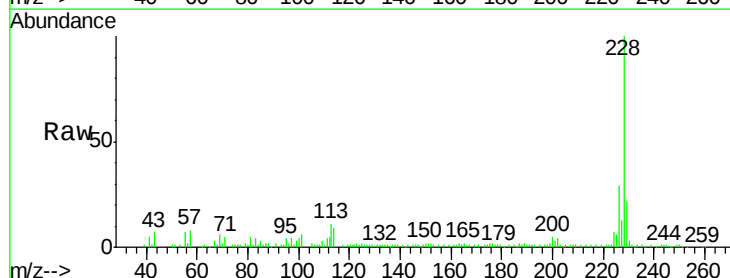
Instrument :  
 BNA\_F  
 ClientSampled :  
 SB-4(4-5)

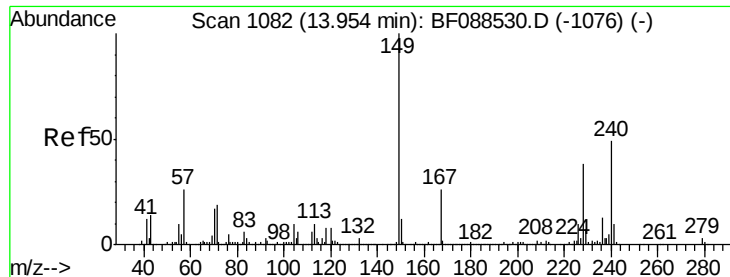
Tot Ion:252 Resp: 288  
 Ion Ratio Lower Upper  
 252 100  
 254 138.6 52.6 78.8#  
 126 115.2 6.2 9.2#



#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)

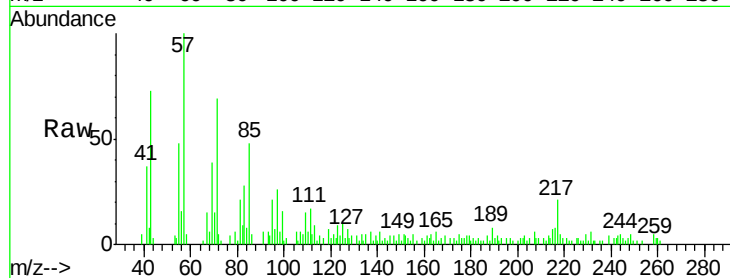
Tot Ion:149 Resp: 518

Ion Ratio Lower Upper

149 100

167 56.4 20.5 30.7#

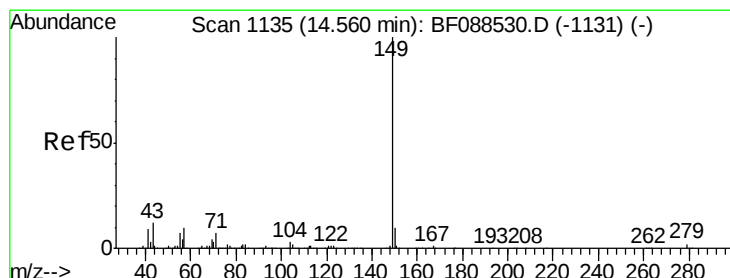
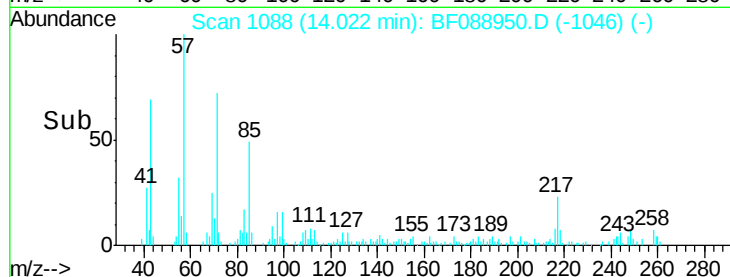
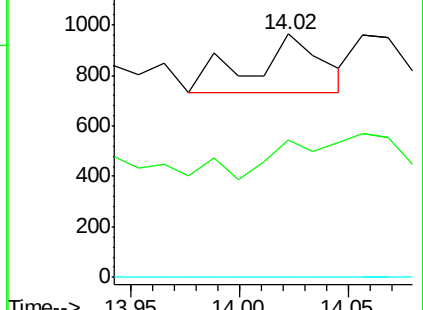
279 0.0 2.0 3.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#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

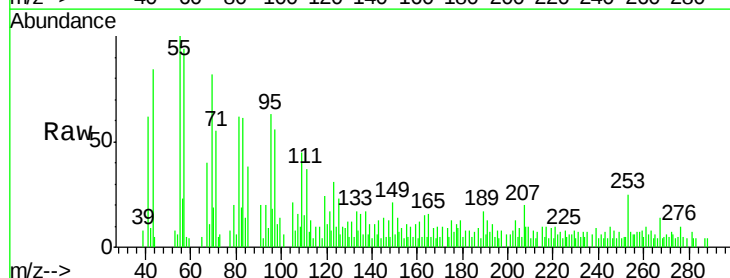
Tgt Ion:149 Resp: 387

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

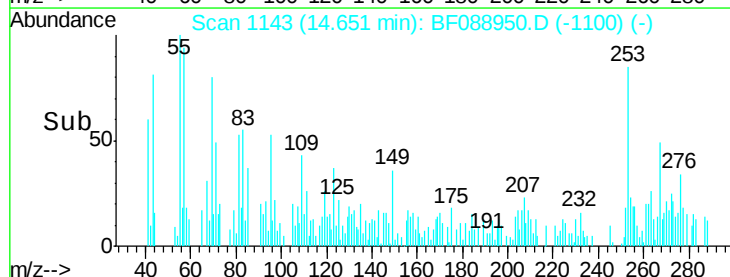
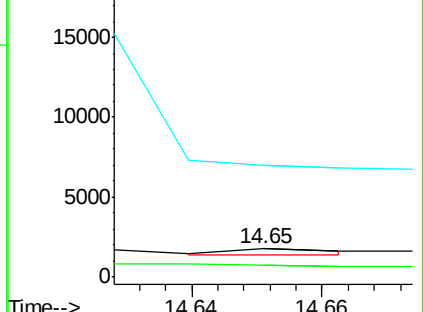
43 0.0 0.0 0.0

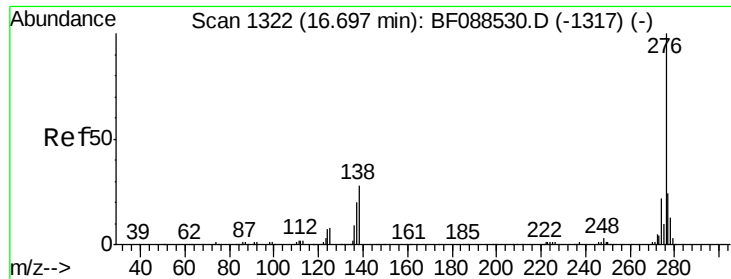


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0

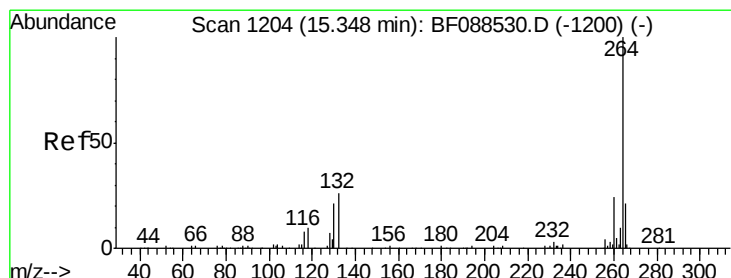
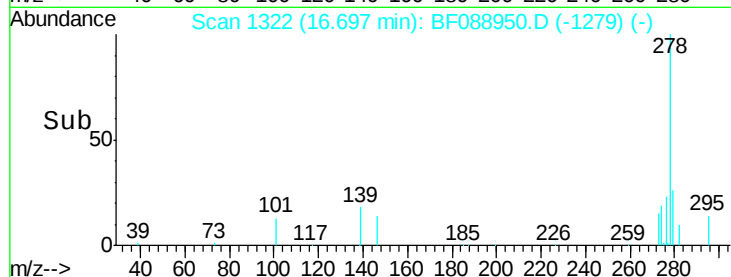
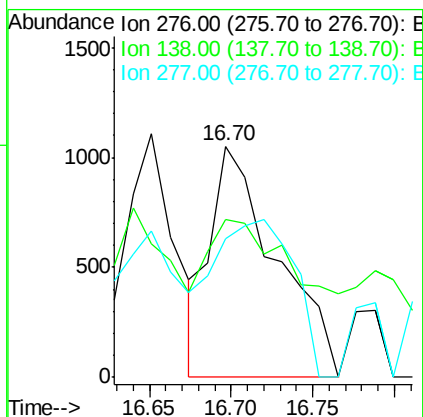
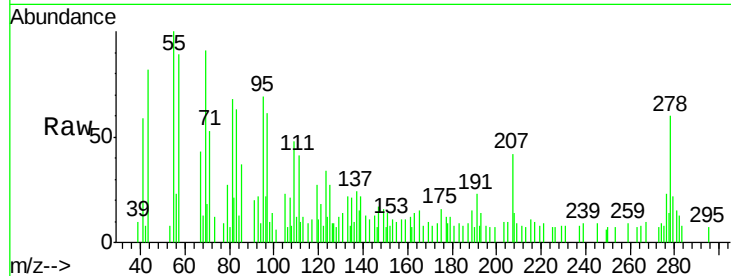




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 157.33 ng  
RT: 16.70 min Scan# 1322  
Delta R.T. 0.19 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

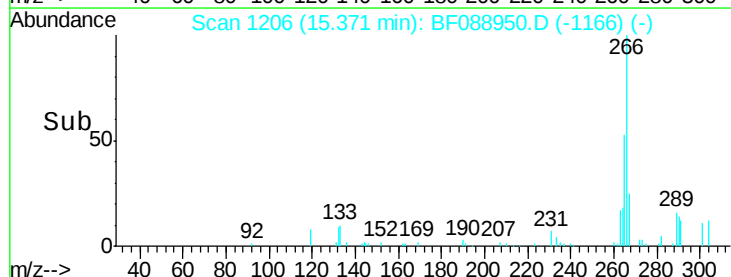
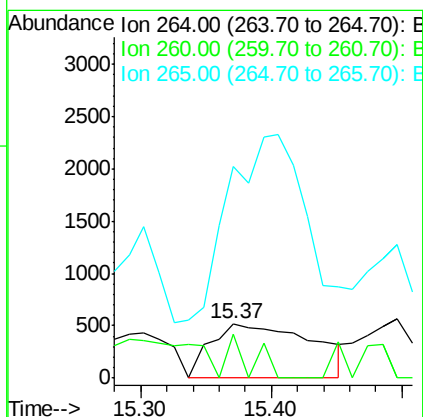
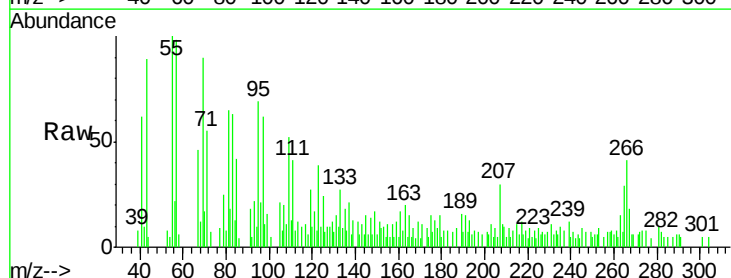
Instrument :  
BNA\_F  
ClientSampled :  
SB-4(4-5)

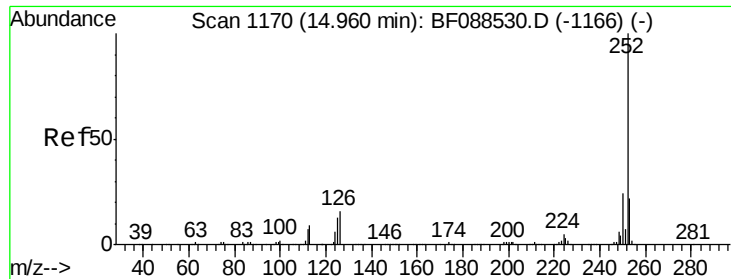
Tot Ion:276 Resp: 2938  
Ion Ratio Lower Upper  
276 100  
138 31.2 0.0 0.0#  
277 0.0 0.0 0.0



#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)

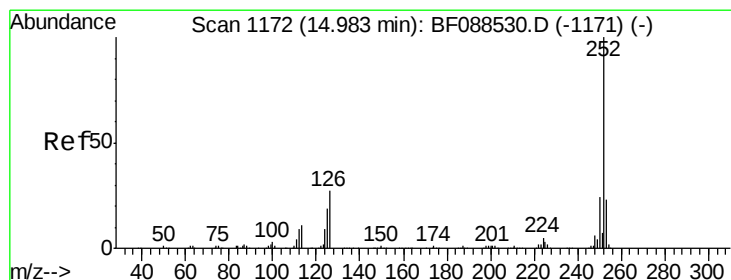
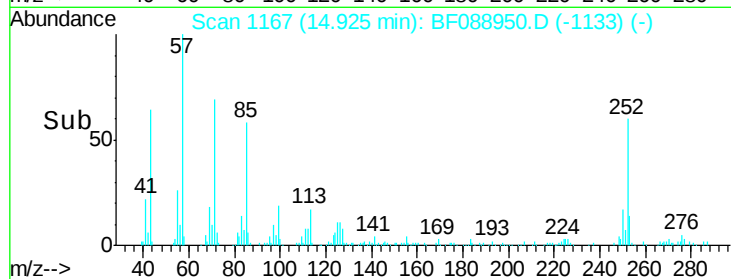
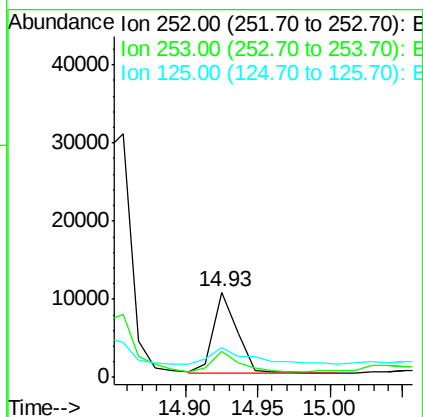
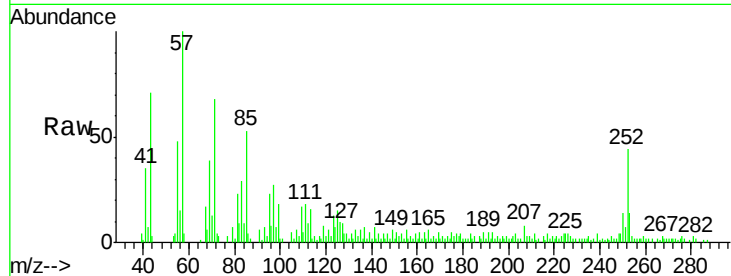
Tot Ion:252 Resp: 12028

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

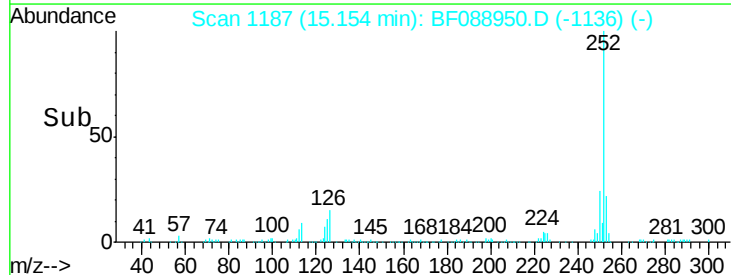
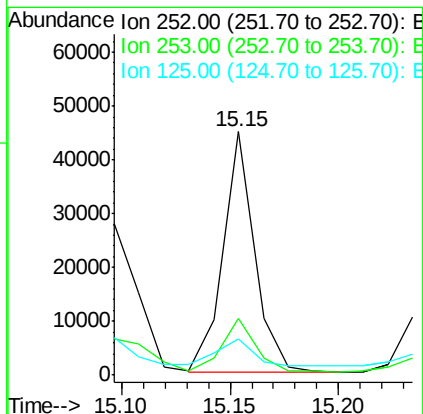
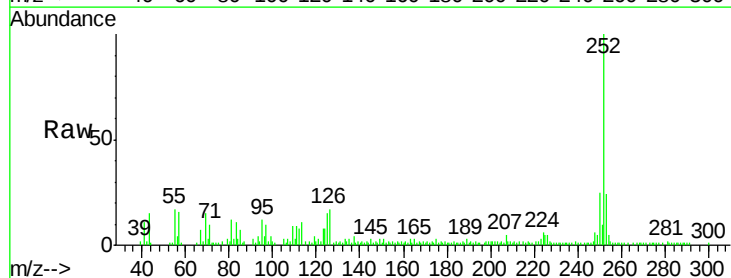
Tgt Ion:252 Resp: 45443

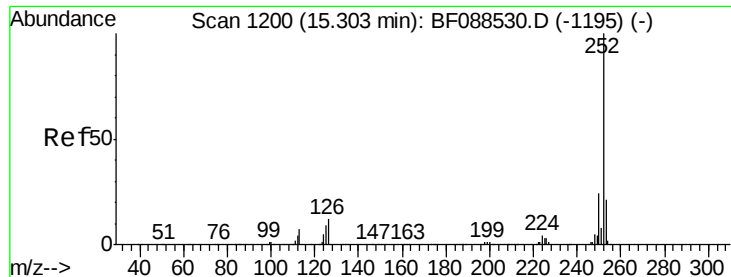
Ion Ratio Lower Upper

252 100

253 23.5 18.0 27.0

125 14.9 11.2 16.8

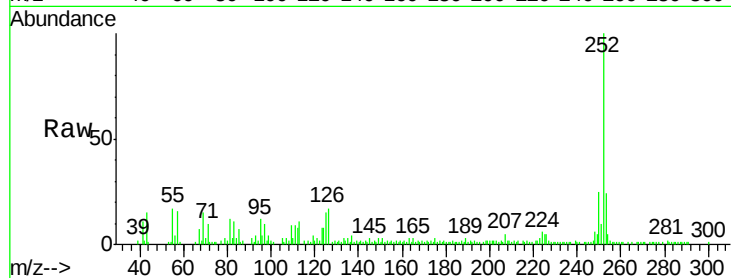




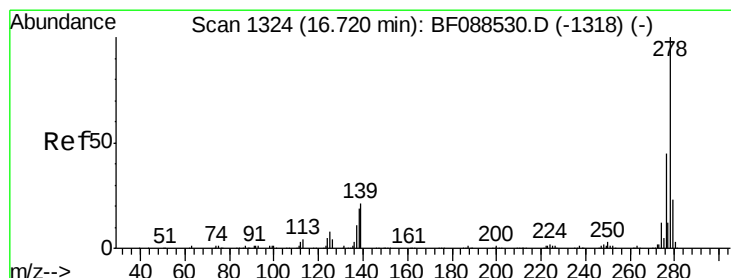
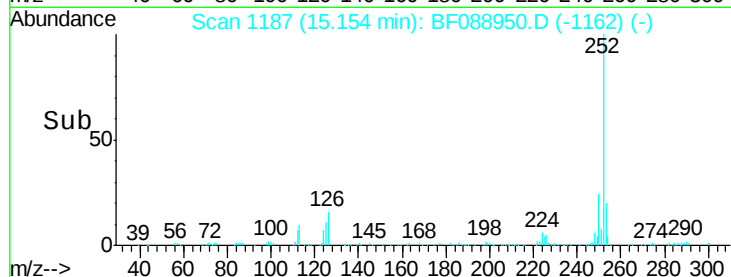
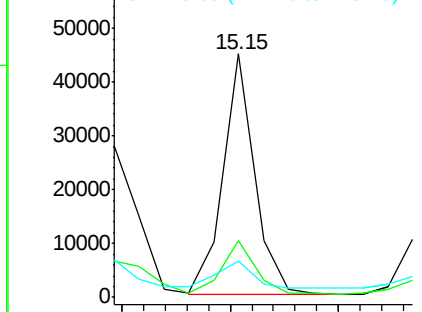
#89  
Benzo(a)pyrene  
Concen: 305.42 ng  
RT: 15.15 min Scan# 1187  
Delta R.T. -0.01 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

Instrument :  
BNA\_F  
ClientSampled :  
SB-4(4-5)

Tot Ion:252 Resp: 45048  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.9 26.9  
125 14.9 12.5 18.7

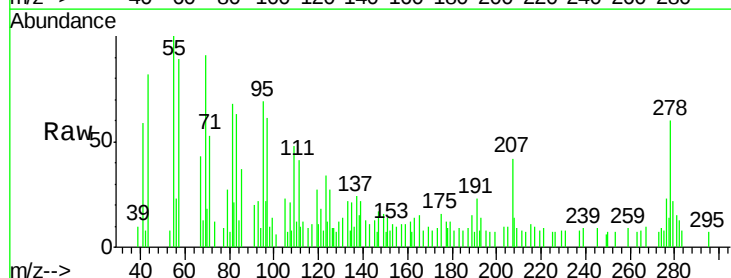


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

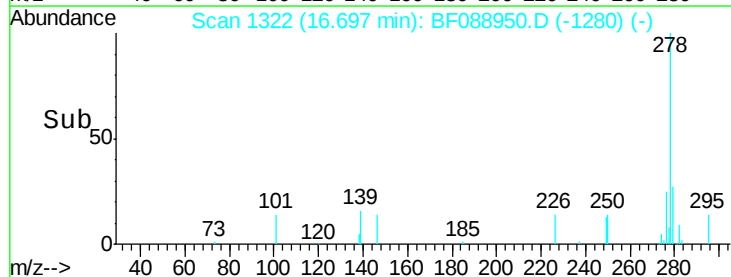
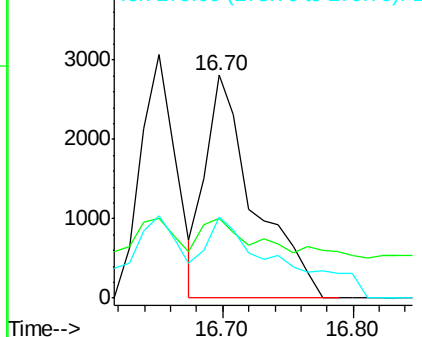


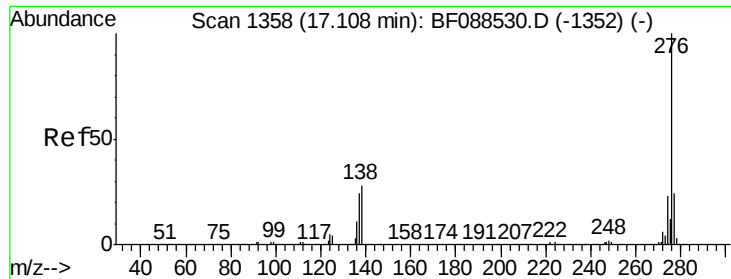
#90  
Dibenzo(a,h)anthracene  
Concen: 59.17 ng  
RT: 16.70 min Scan# 1322  
Delta R.T. 0.18 min  
Lab File: BF088950.D  
Acq: 13 Jul 2016 7:48

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(a,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)

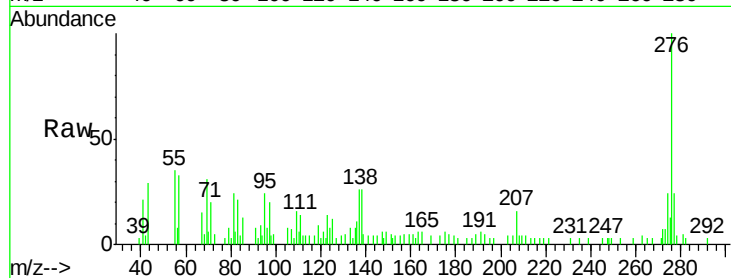
Tot Ion: 276 Resp: 23288

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

