

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101915\  
 Data File : BF082388.D  
 Acq On : 20 Oct 2015 7:53  
 Operator : UM/IZ  
 Sample : G4046-02DL 50X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

Quant Time: Oct 20 08:46:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 12 01:46:21 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 87643    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.09  | 136  | 363932   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.85  | 164  | 183232   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.35 | 188  | 293126   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 14.01 | 240  | 226533   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.51 | 264  | 225265   | 20.00 | ng    | 0.07     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.41  | 112 | 5163  | 1.19 | ng | -0.02 |
| 7) Phenol-d6                | 6.45  | 99  | 8056  | 1.43 | ng | -0.03 |
| 23) Nitrobenzene-d5         | 7.37  | 82  | 4367  | 0.81 | ng | -0.05 |
| 41) 2,4,6-Tribromophenol    | 10.64 | 330 | 2029  | 1.18 | ng | -0.03 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 16272 | 1.47 | ng | -0.04 |
| 78) Terphenyl-d14           | 12.93 | 244 | 15205 | 1.78 | ng | -0.03 |

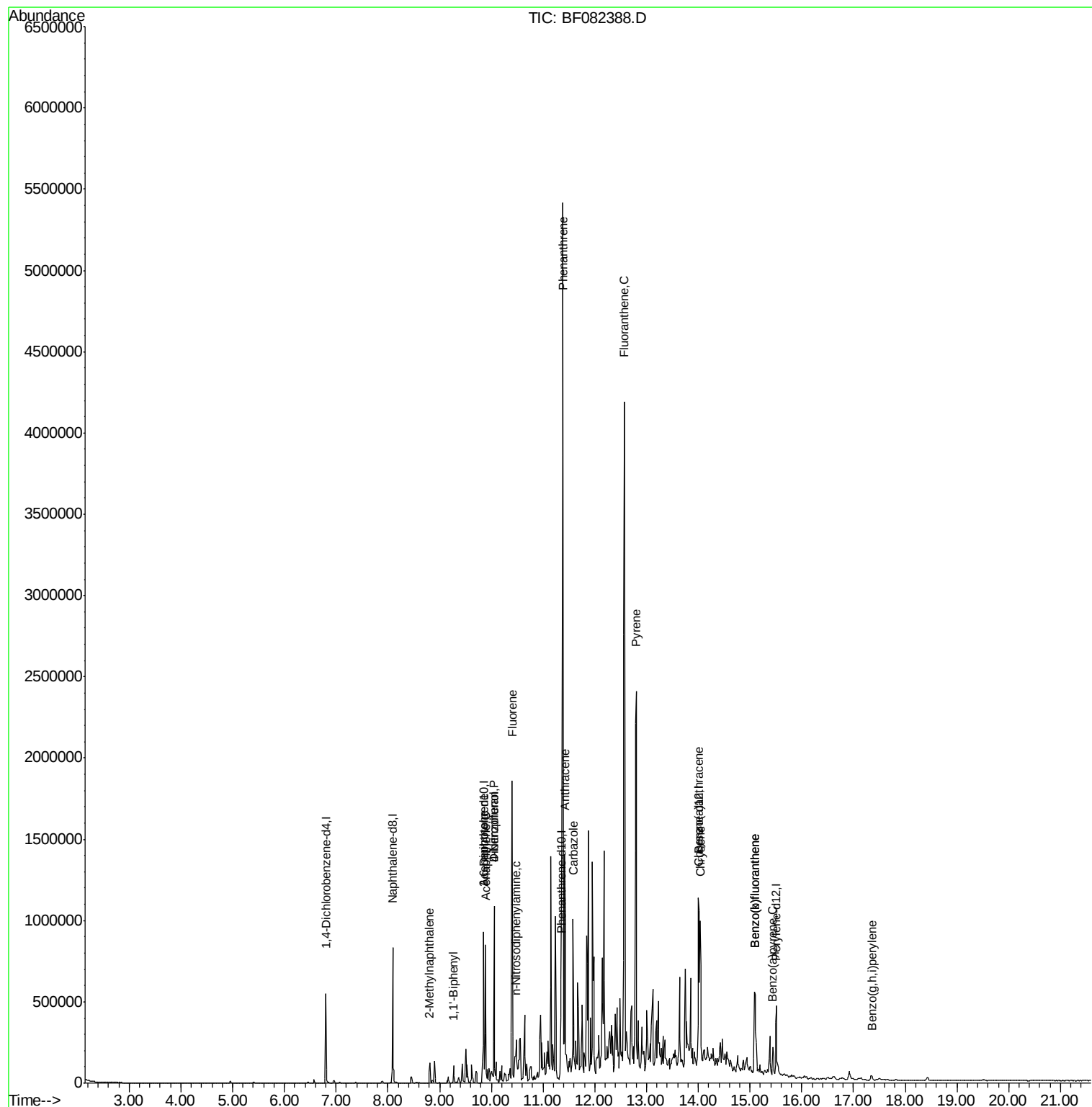
|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 37) 2-Methylnaphthalene    | 8.81  | 142 | 47952   | 4.38   | ng | 98   |
| 45) 1,1'-Biphenyl          | 9.27  | 154 | 41010   | 2.94   | ng | 98   |
| 50) 2,6-Dinitrotoluene     | 9.85  | 165 | 32789   | 12.04  | ng | # 33 |
| 51) Acenaphthene           | 9.89  | 154 | 200738  | 19.51  | ng | 97   |
| 54) Dibenzofuran           | 10.06 | 168 | 439449  | 31.12  | ng | 97   |
| 55) 4-Nitrophenol          | 10.06 | 139 | 159451  | 76.41  | ng | # 12 |
| 57) Fluorene               | 10.40 | 166 | 517841  | 44.64  | ng | 98   |
| 65) n-Nitrosodiphenylamine | 10.48 | 169 | 27695   | 3.16   | ng | # 1  |
| 70) Phenanthrene           | 11.38 | 178 | 2932176 | 204.08 | ng | 95   |
| 71) Anthracene             | 11.42 | 178 | 784913  | 53.01  | ng | 98   |
| 72) Carbazole              | 11.58 | 167 | 424041  | 31.40  | ng | 99   |
| 74) Fluoranthene           | 12.57 | 202 | 2169521 | 140.59 | ng | 96   |
| 77) Pyrene                 | 12.80 | 202 | 1487296 | 110.63 | ng | 99   |
| 80) Benzo(a)anthracene     | 14.00 | 228 | 399358  | 33.88  | ng | 99   |
| 82) Chrysene               | 14.04 | 228 | 423403  | 34.09  | ng | 99   |
| 87) Benzo(b)fluoranthene   | 15.09 | 252 | 399891  | 29.18  | ng | 98   |
| 88) Benzo(k)fluoranthene   | 15.09 | 252 | 399891  | 34.71  | ng | # 97 |
| 89) Benzo(a)pyrene         | 15.44 | 252 | 91219   | 7.74   | ng | 98   |
| 91) Benzo(g,h,i)perylene   | 17.35 | 276 | 27086   | 2.89   | ng | 95   |

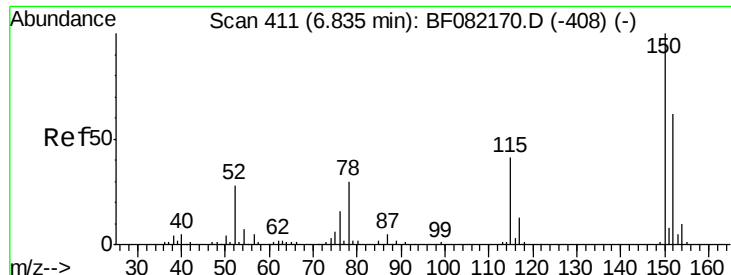
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF101915\  
Data File : BF082388.D  
Acq On : 20 Oct 2015 7:53  
Operator : UM/IZ  
Sample : G4046-02DL 50X  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

Quant Time: Oct 20 08:46:23 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF101015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 12 01:46:21 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 408

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

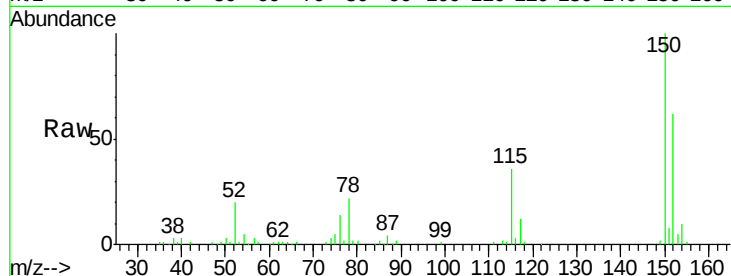
Tgt Ion:152 Resp: 87643

Ion Ratio Lower Upper

152 100

150 160.3 129.0 193.4

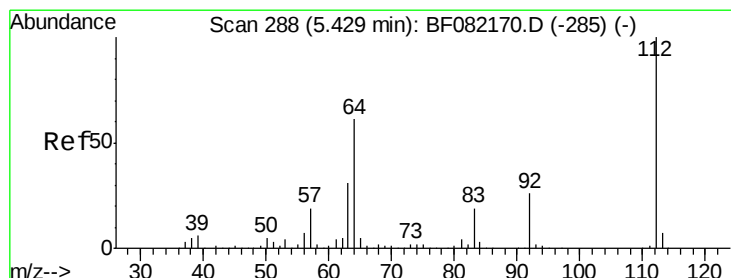
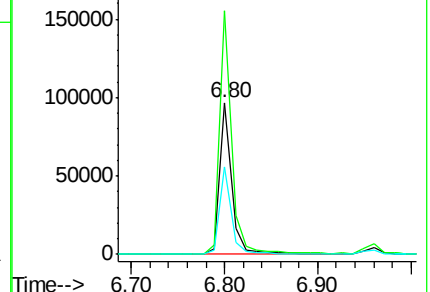
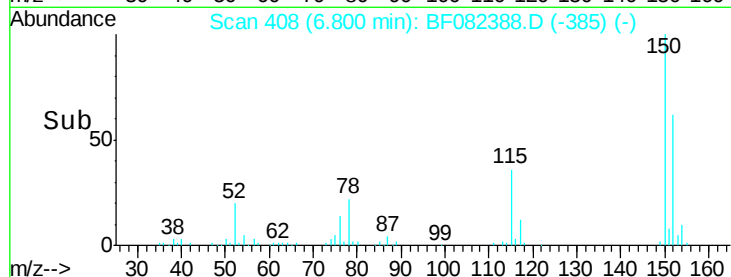
115 57.9 52.1 78.1



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: 1.19 ng

RT: 5.41 min Scan# 286

Delta R.T. -0.02 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

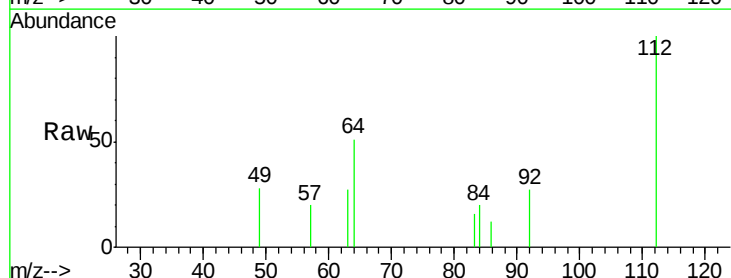
Tgt Ion:112 Resp: 5163

Ion Ratio Lower Upper

112 100

64 50.7 48.6 73.0

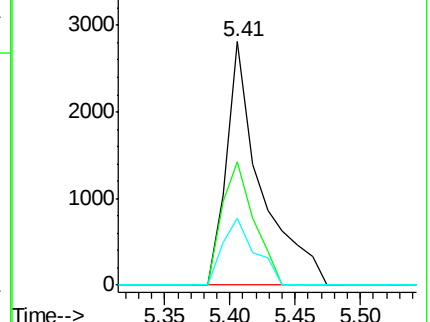
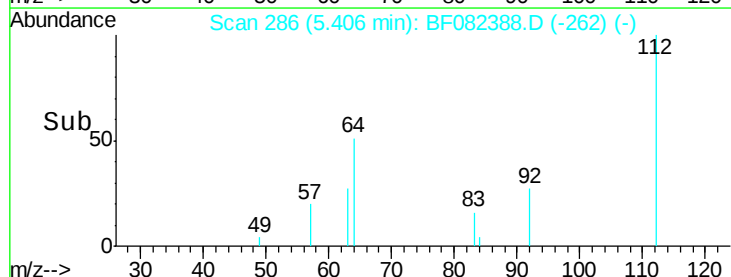
63 27.3 25.1 37.7

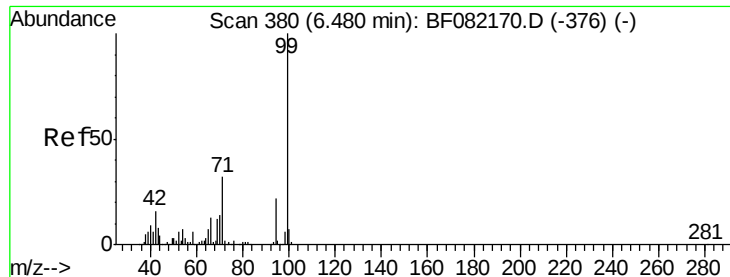


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.43 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

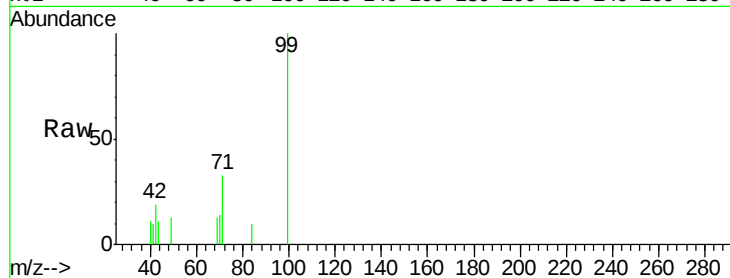
Tgt Ion: 99 Resp: 8056

Ion Ratio Lower Upper

99 100

42 18.9 13.2 19.8

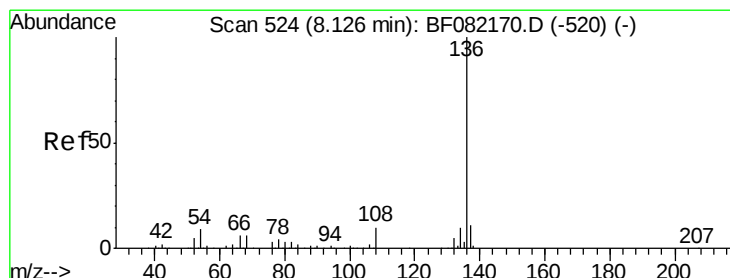
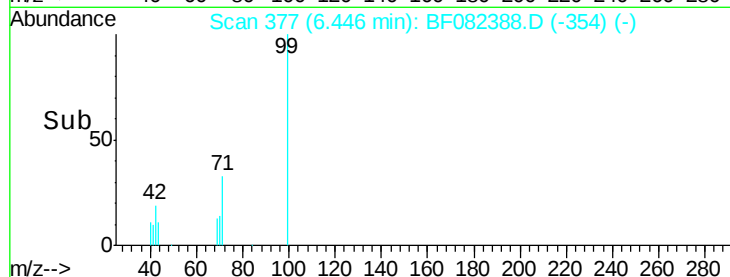
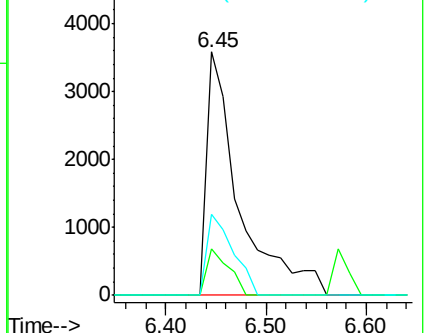
71 33.3 25.6 38.4



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: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Tgt Ion: 136 Resp: 363932

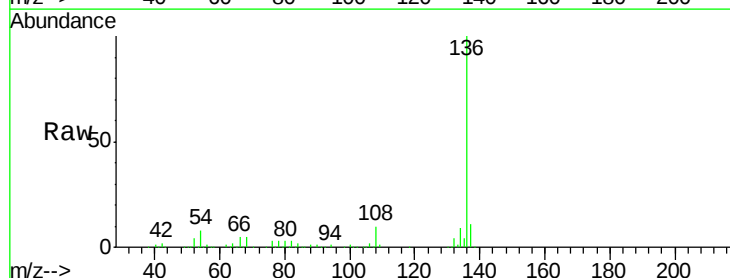
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.6

54 7.9 7.5 11.3

68 5.0 4.6 7.0

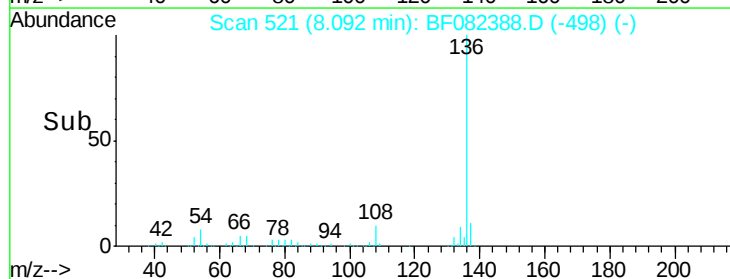
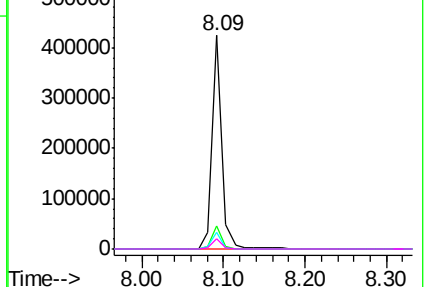


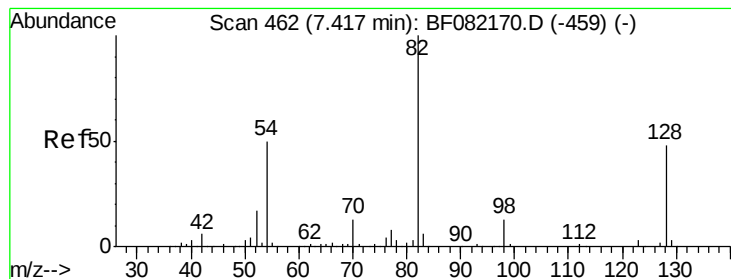
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.81 ng

RT: 7.37 min Scan# 458

Delta R.T. -0.05 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

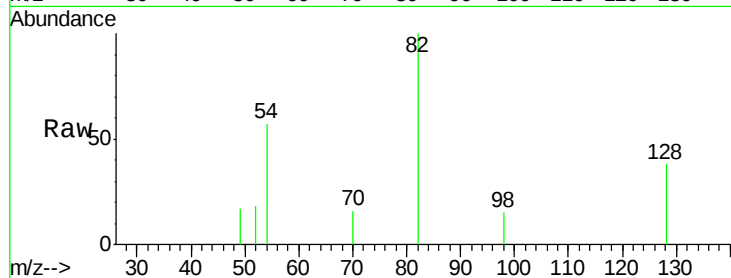
Tgt Ion: 82 Resp: 4367

Ion Ratio Lower Upper

82 100

128 37.8 38.7 58.1#

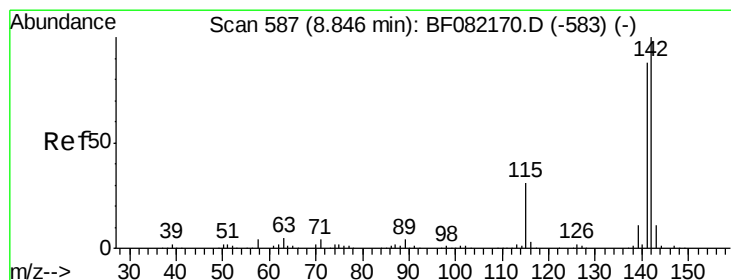
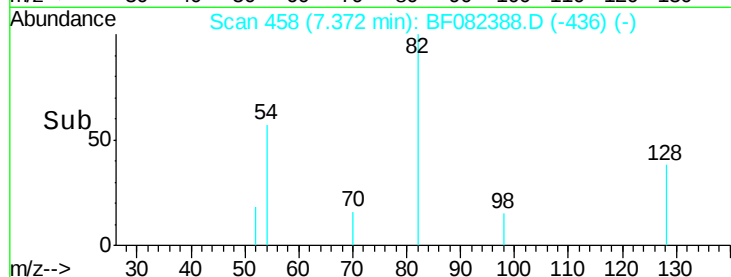
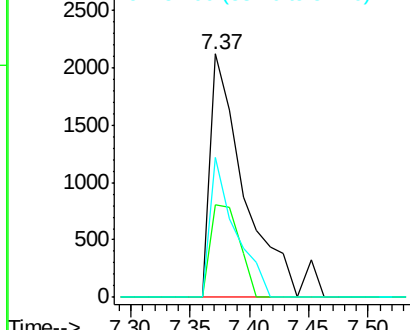
54 57.5 40.1 60.1



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#37

2-Methylnaphthalene

Concen: 4.38 ng

RT: 8.81 min Scan# 584

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

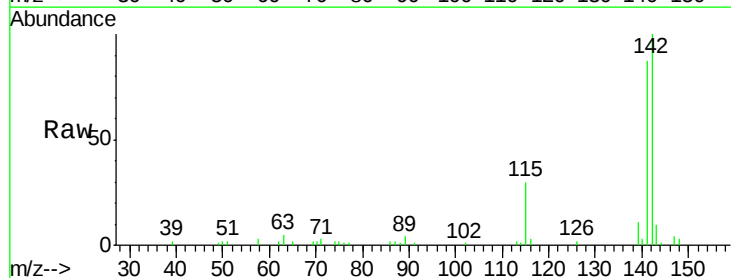
Tgt Ion: 142 Resp: 47952

Ion Ratio Lower Upper

142 100

141 86.6 70.4 105.6

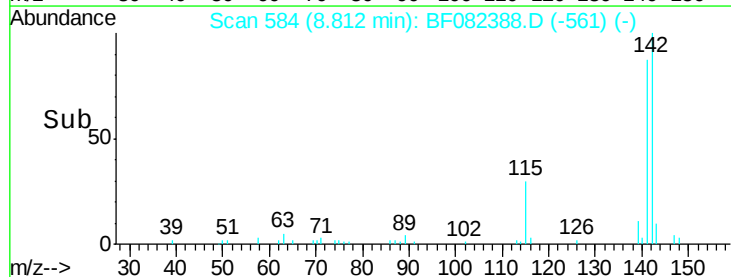
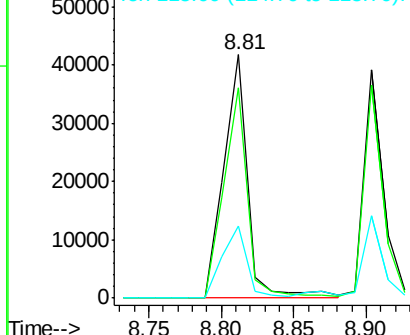
115 29.8 24.6 37.0

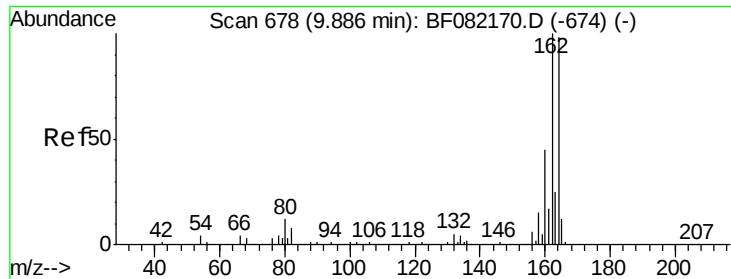


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

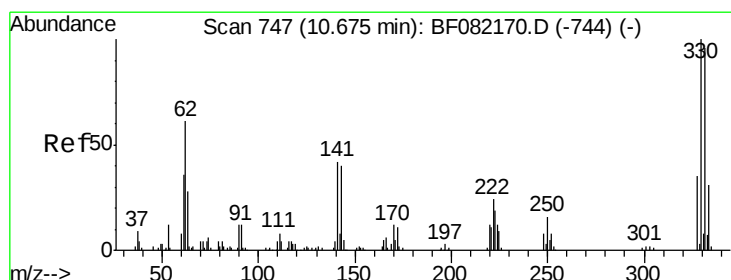
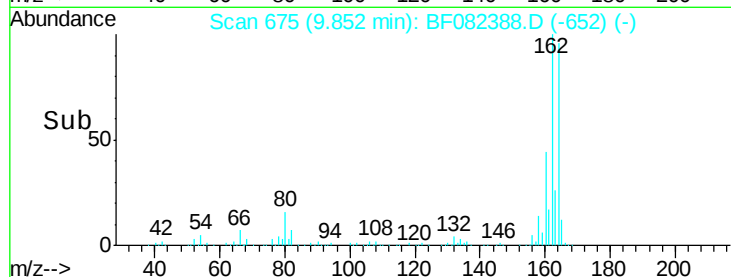
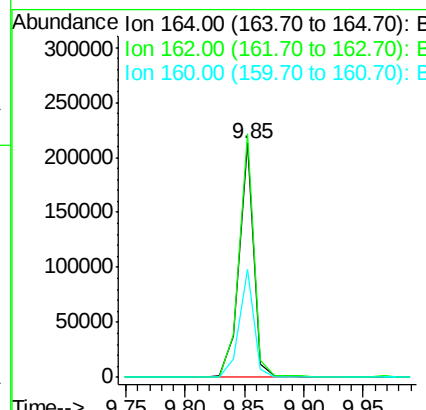
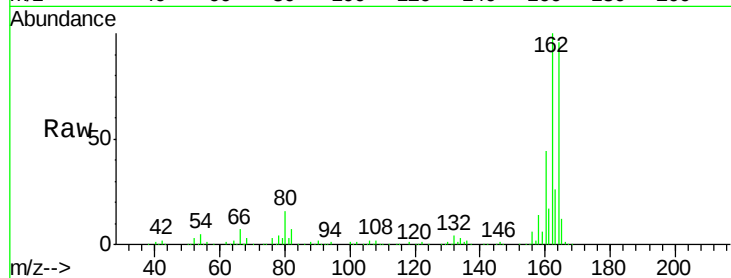




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.85 min Scan# 675  
 Delta R.T. -0.03 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

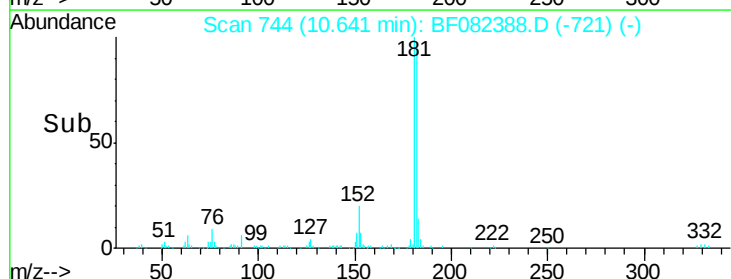
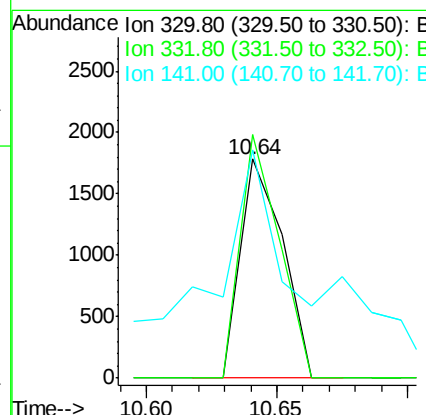
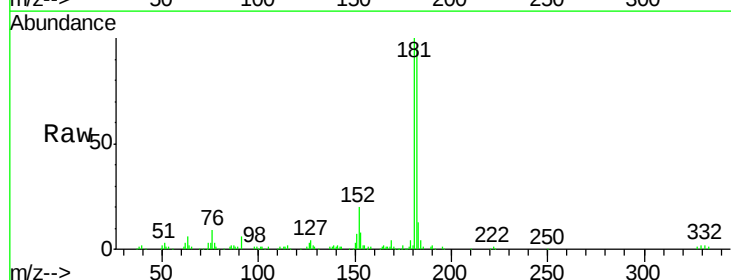
Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

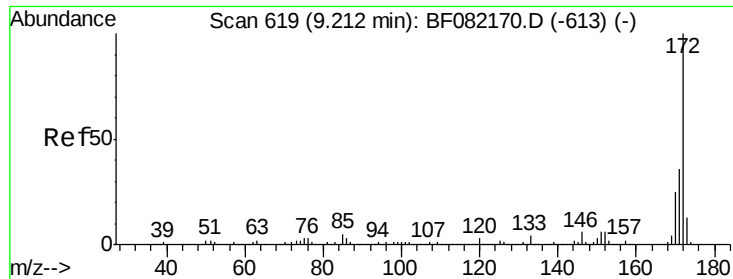
Tgt Ion:164 Resp: 183232  
 Ion Ratio Lower Upper  
 164 100  
 162 103.9 81.6 122.4  
 160 45.9 36.4 54.6



#41  
 2,4,6-Tribromophenol  
 Concen: 1.18 ng  
 RT: 10.64 min Scan# 744  
 Delta R.T. -0.03 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Tgt Ion:330 Resp: 2029  
 Ion Ratio Lower Upper  
 330 100  
 332 102.5 77.1 115.7  
 141 251.1 29.8 44.8#

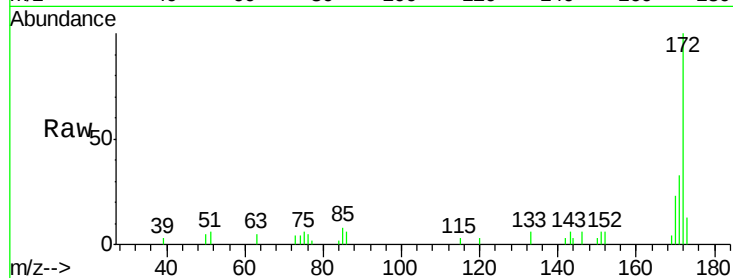




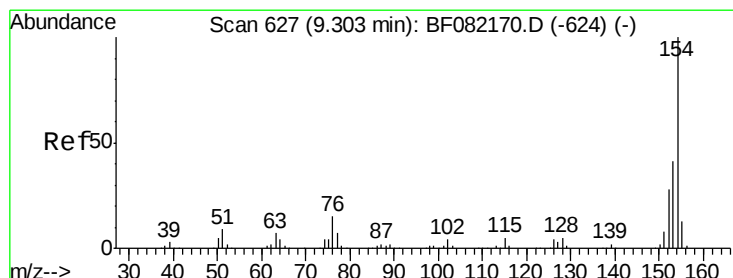
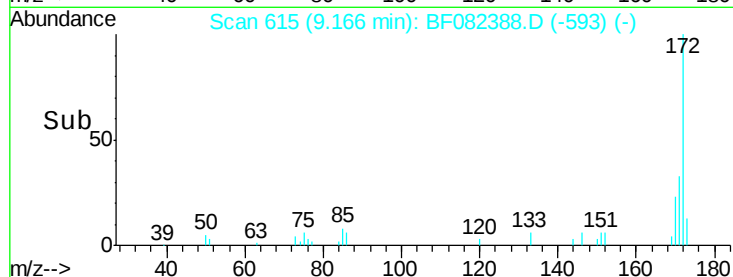
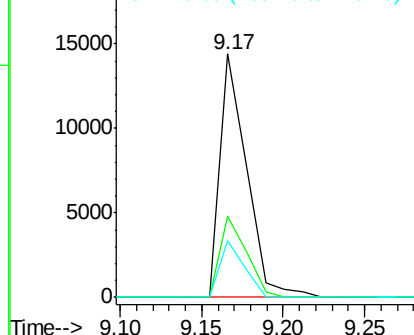
#44  
 2-Fluorobiphenyl  
 Concen: 1.47 ng  
 RT: 9.17 min Scan# 615  
 Delta R.T. -0.04 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

Tgt Ion:172 Resp: 16272  
 Ion Ratio Lower Upper  
 172 100  
 171 33.5 28.6 42.8  
 170 23.0 19.7 29.5

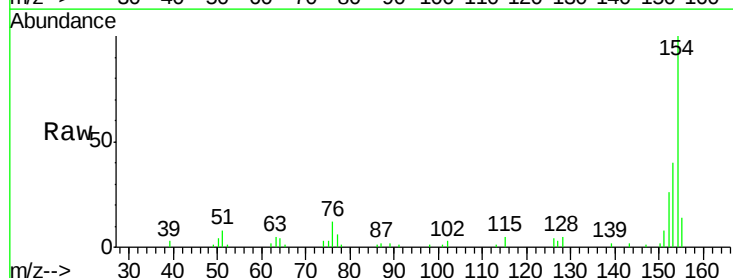


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

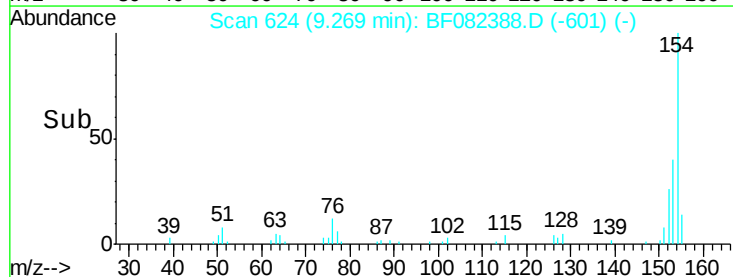
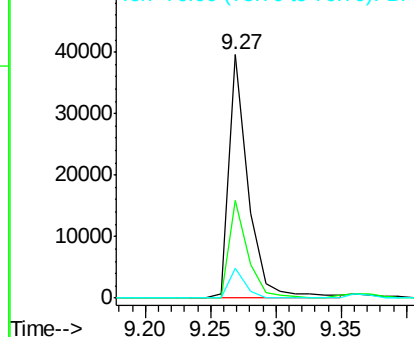


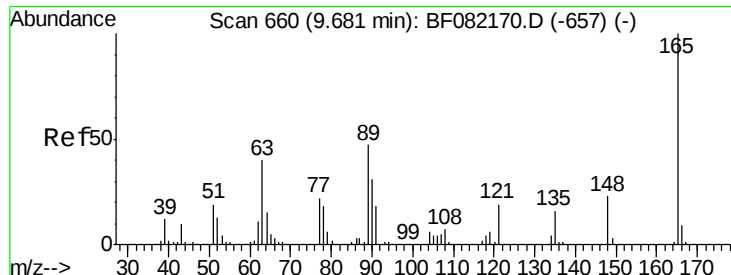
#45  
 1,1'-Biphenyl  
 Concen: 2.94 ng  
 RT: 9.27 min Scan# 624  
 Delta R.T. -0.03 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Tgt Ion:154 Resp: 41010  
 Ion Ratio Lower Upper  
 154 100  
 153 40.3 20.6 60.6  
 76 12.3 0.0 35.2



Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF0

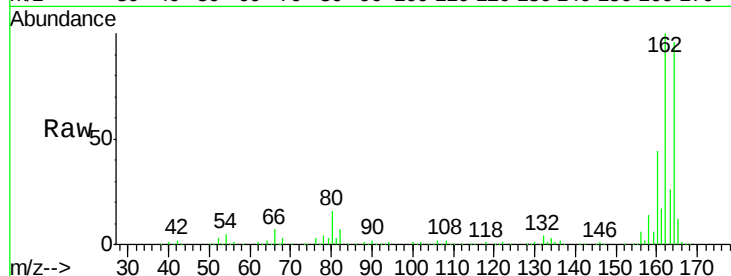




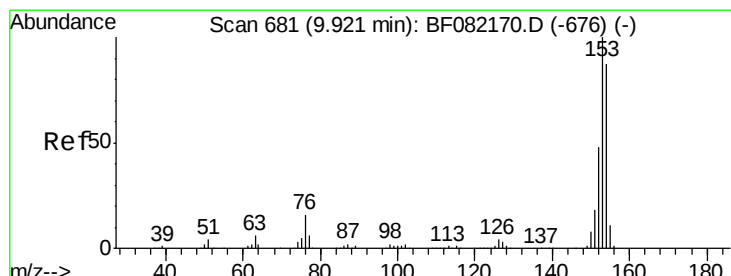
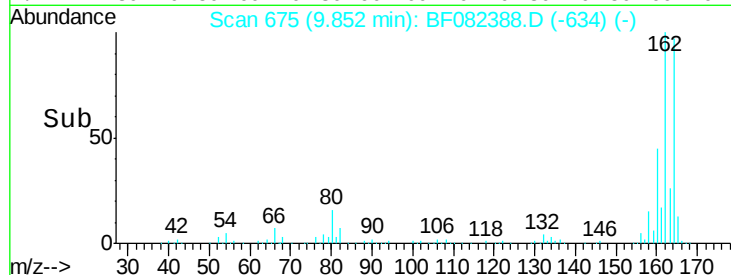
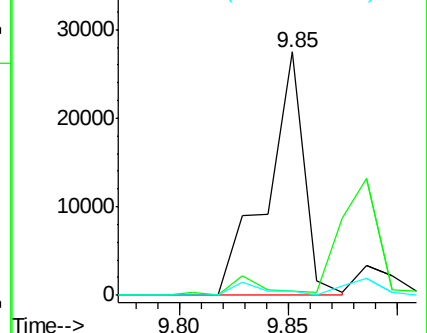
#50  
 2,6-Dinitrotoluene  
 Concen: 12.04 ng  
 RT: 9.85 min Scan# 675  
 Delta R.T. 0.17 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 36.7  | 55.1# |
| 89      | 1.8   | 37.8  | 56.6# |

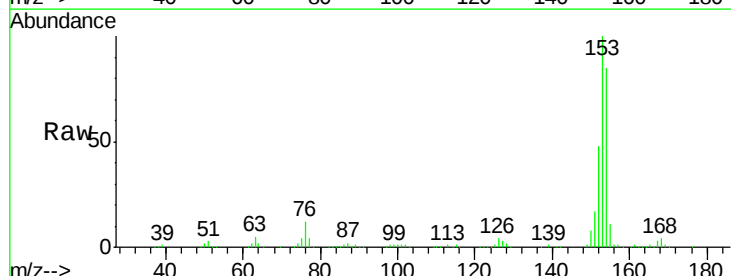


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

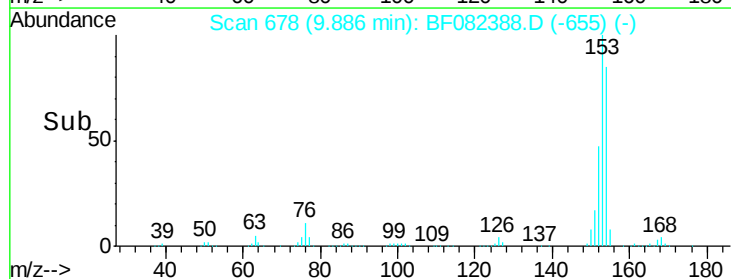
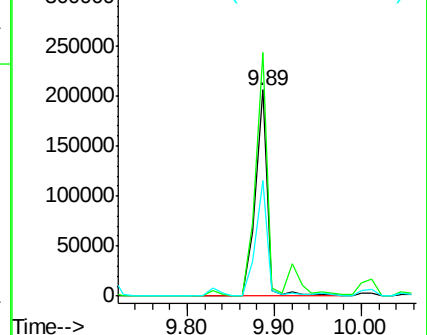


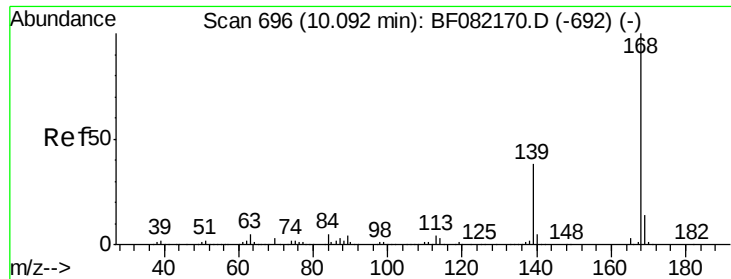
#51  
 Acenaphthene  
 Concen: 19.51 ng  
 RT: 9.89 min Scan# 678  
 Delta R.T. -0.03 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 118.0 | 91.4  | 137.2 |
| 152     | 56.0  | 44.3  | 66.5  |



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

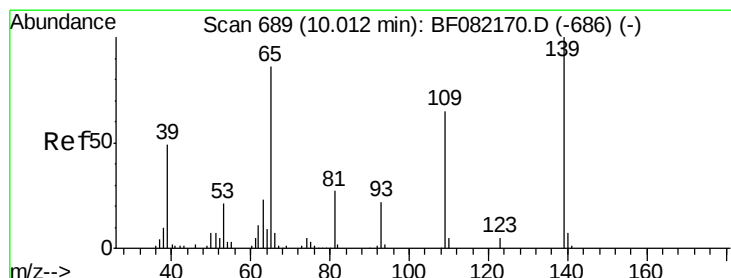
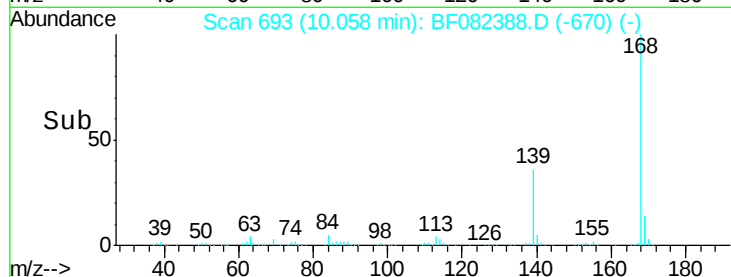
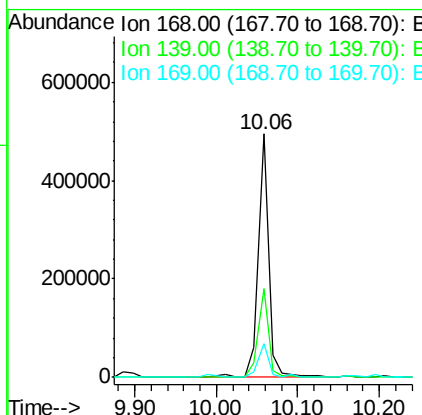
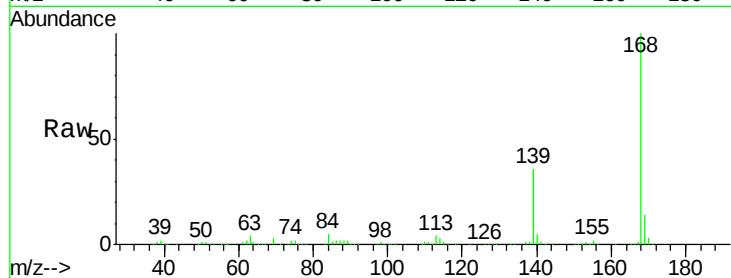




#54  
Dibenzofuran  
Concen: 31.12 ng  
RT: 10.06 min Scan# 693  
Delta R.T. -0.03 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

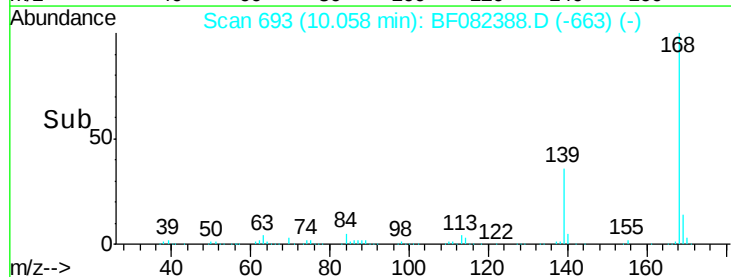
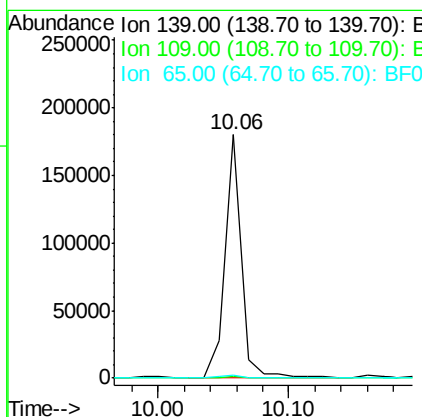
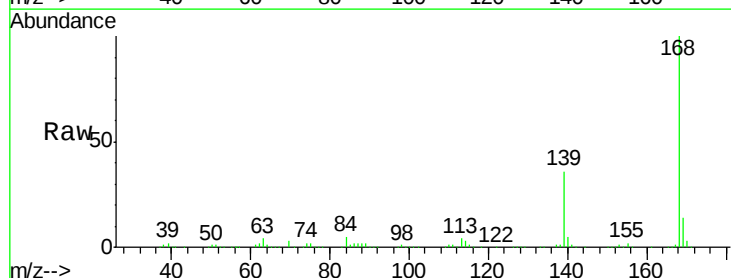
Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

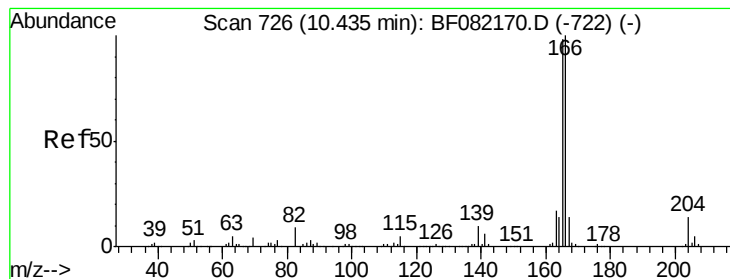
Tgt Ion:168 Resp: 439449  
Ion Ratio Lower Upper  
168 100  
139 36.4 31.0 46.6  
169 13.8 10.9 16.3



#55  
4-Nitrophenol  
Concen: 76.41 ng  
RT: 10.06 min Scan# 693  
Delta R.T. 0.05 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Tgt Ion:139 Resp: 159451  
Ion Ratio Lower Upper  
139 100  
109 0.7 44.8 84.8#  
65 1.3 67.7 107.7#





#57

Fluorene

Concen: 44.64 ng

RT: 10.40 min Scan# 723

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

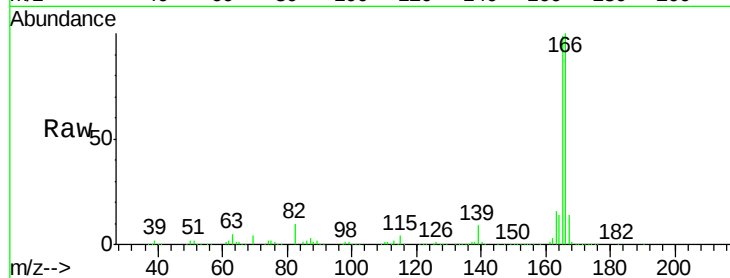
Tgt Ion:166 Resp: 517841

Ion Ratio Lower Upper

166 100

165 99.5 78.3 117.5

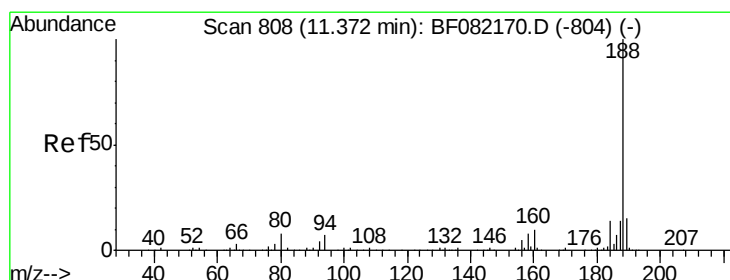
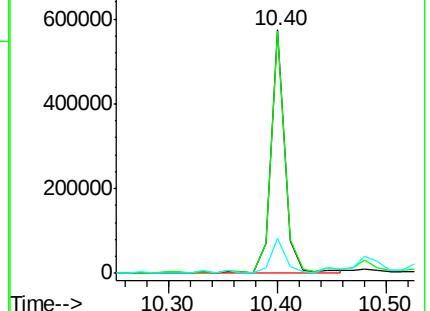
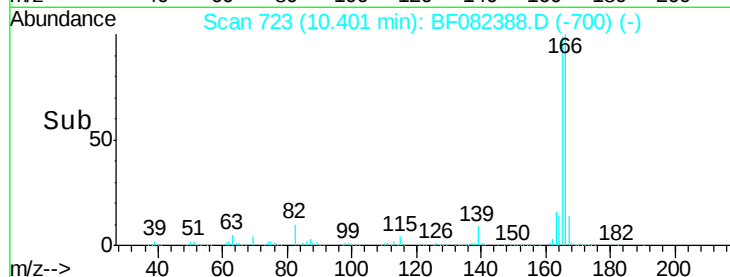
167 14.1 10.8 16.2



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: 11.35 min Scan# 806

Delta R.T. -0.02 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

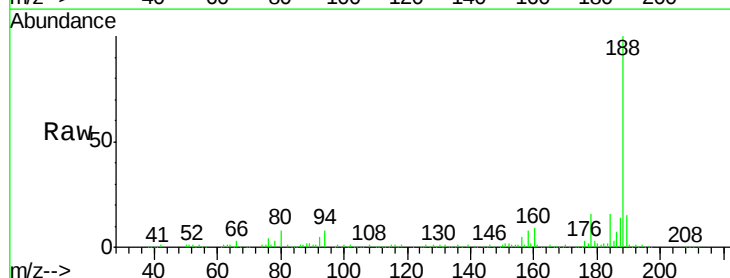
Tgt Ion:188 Resp: 293126

Ion Ratio Lower Upper

188 100

94 7.6 5.8 8.6

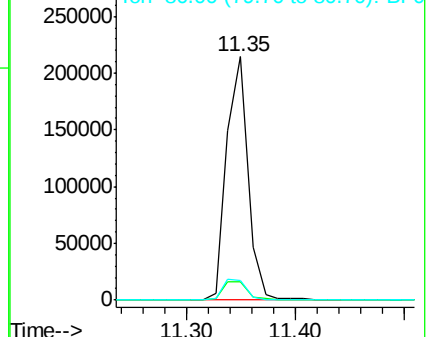
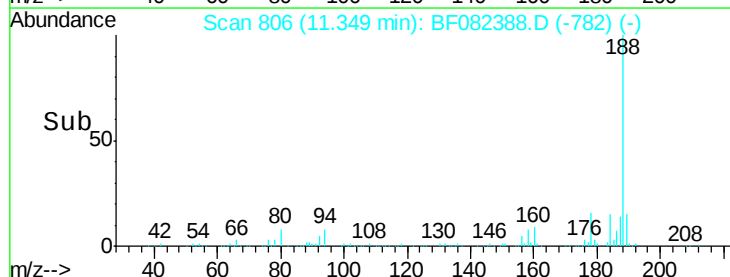
80 8.1 6.4 9.6

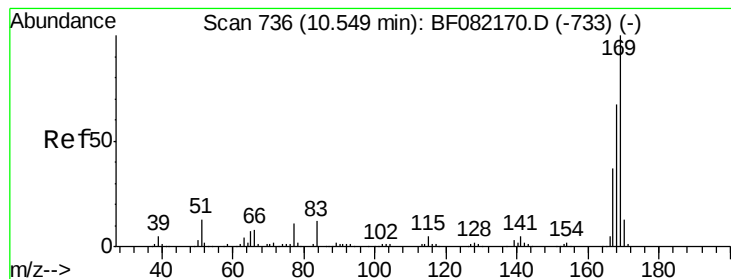


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

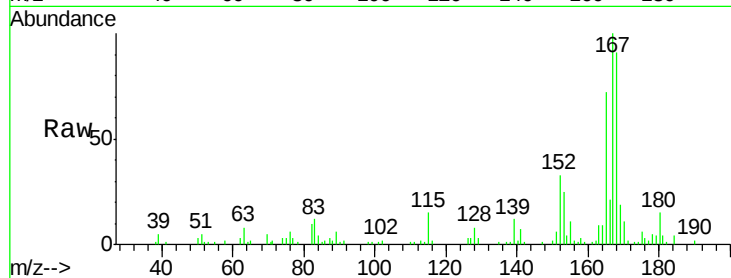




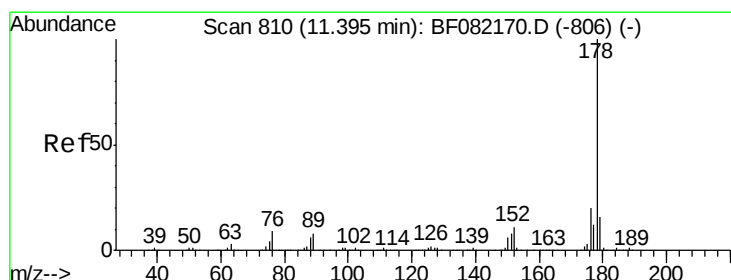
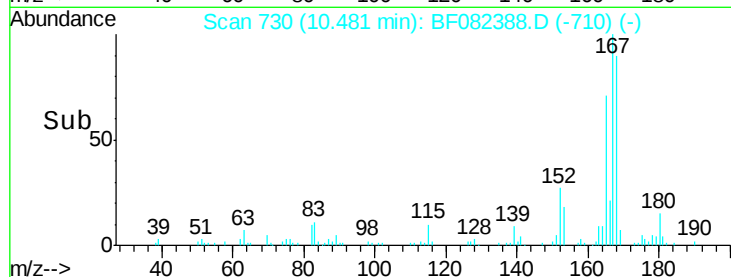
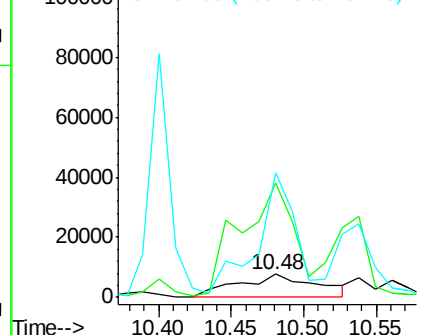
#65  
 n-Nitrosodiphenylamine  
 Concen: 3.16 ng  
 RT: 10.48 min Scan# 730  
 Delta R.T. -0.07 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

Tgt Ion:169 Resp: 27695  
 Ion Ratio Lower Upper  
 169 100  
 168 488.7 54.0 81.0#  
 167 534.7 29.6 44.4#

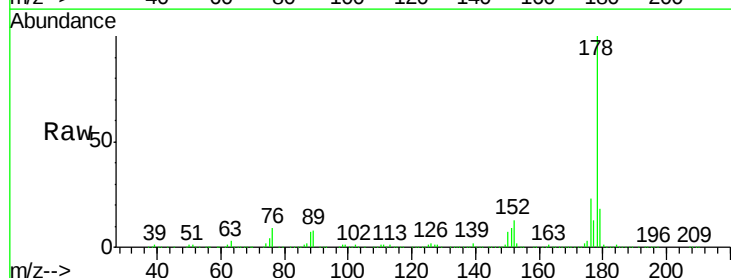


Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E

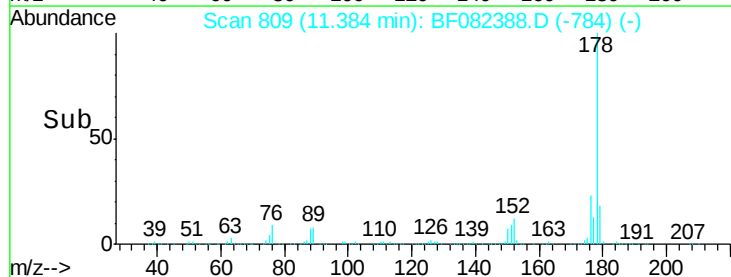
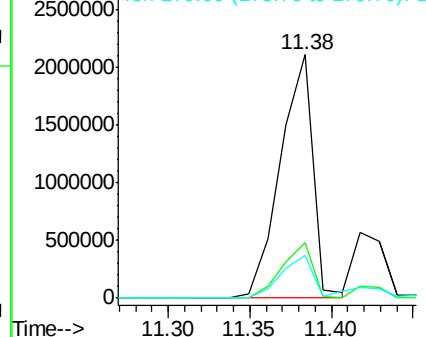


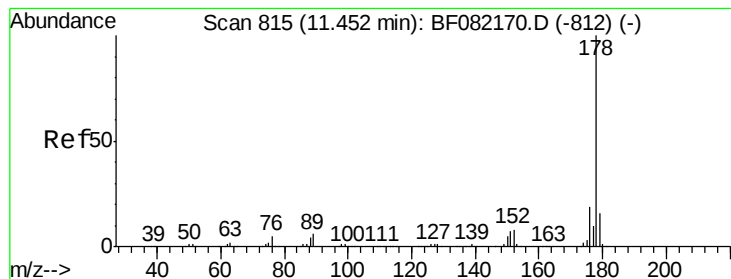
#70  
 Phenanthrene  
 Concen: 204.08 ng  
 RT: 11.38 min Scan# 809  
 Delta R.T. -0.01 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Tgt Ion:178 Resp: 2932176  
 Ion Ratio Lower Upper  
 178 100  
 176 22.7 16.0 24.0  
 179 17.7 12.6 19.0



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





#71

Anthracene

Concen: 53.01 ng

RT: 11.42 min Scan# 812

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

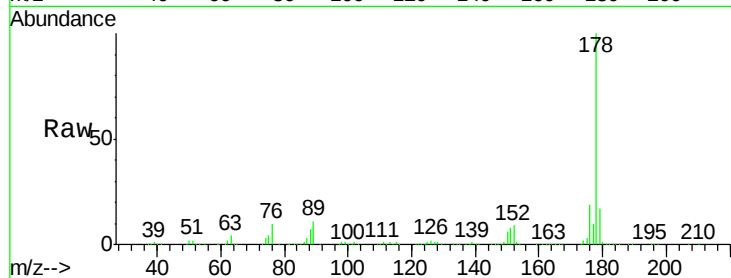
Tgt Ion:178 Resp: 784913

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

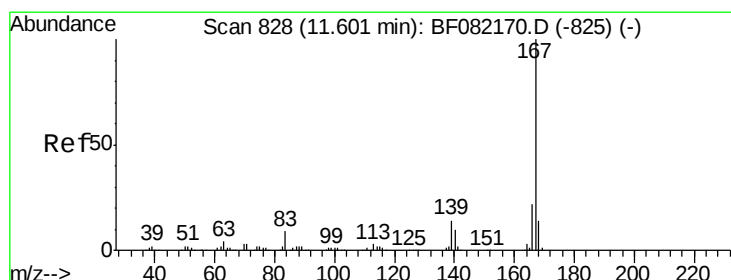
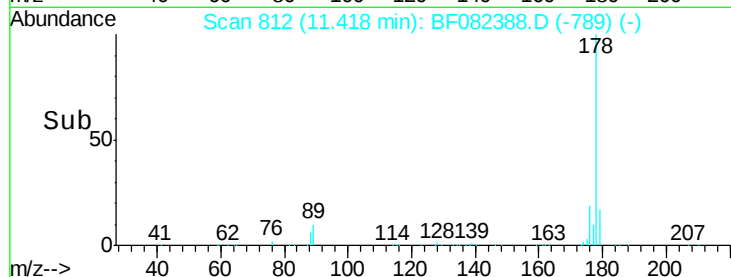
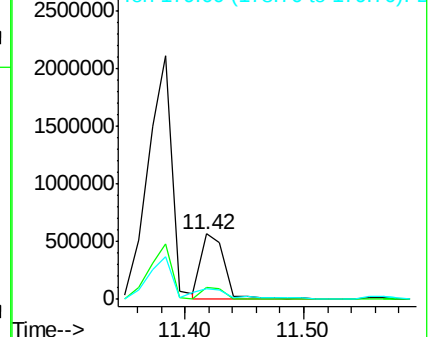
179 17.2 12.5 18.7



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: 31.40 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

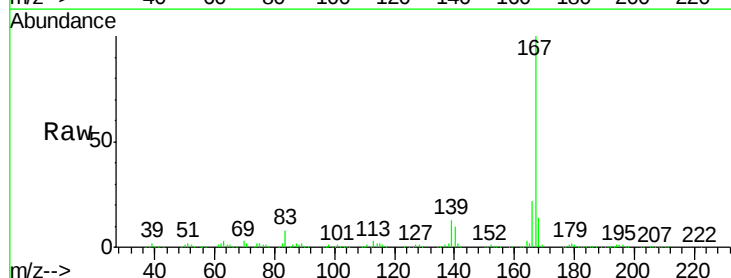
Tgt Ion:167 Resp: 424041

Ion Ratio Lower Upper

167 100

166 22.1 17.3 25.9

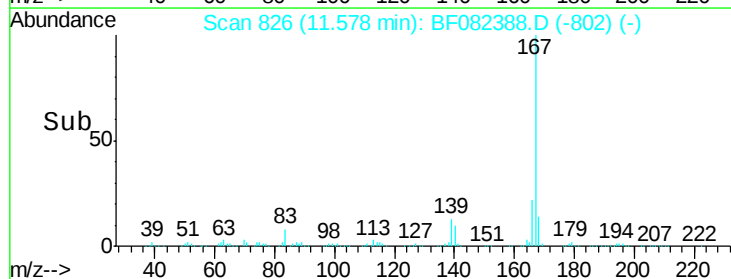
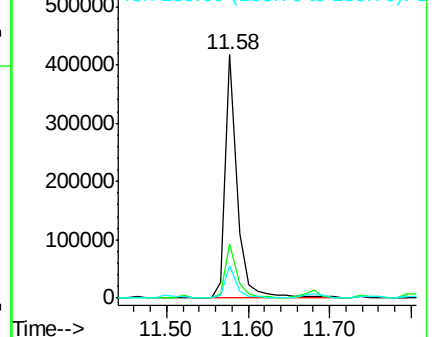
139 13.2 11.2 16.8

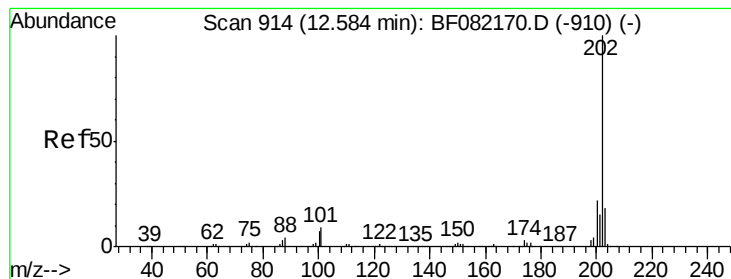


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 140.59 ng

RT: 12.57 min Scan# 913

Delta R.T. -0.01 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

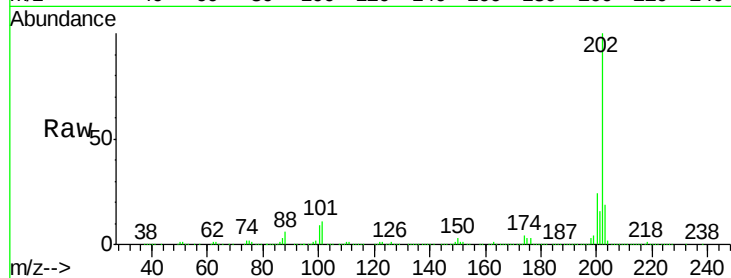
Tgt Ion:202 Resp: 2169521

Ion Ratio Lower Upper

202 100

101 11.1 0.0 29.3

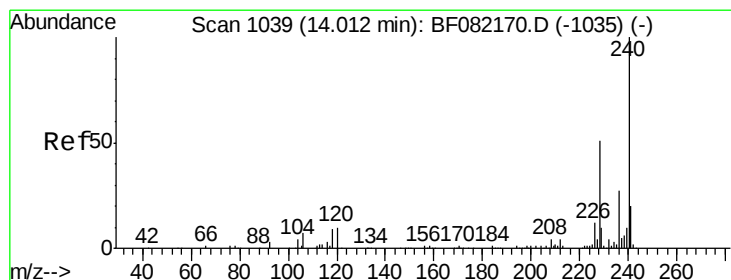
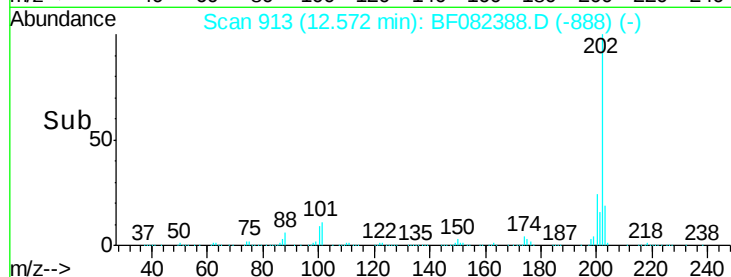
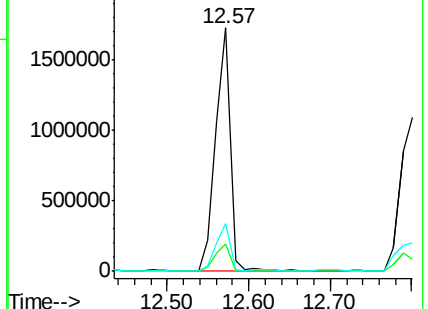
203 19.4 0.0 37.8



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: 14.01 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

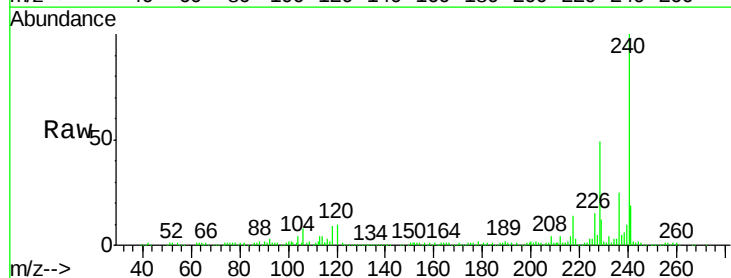
Tgt Ion:240 Resp: 226533

Ion Ratio Lower Upper

240 100

120 10.1 8.1 12.1

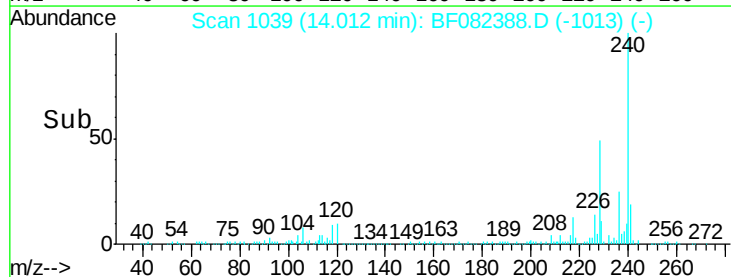
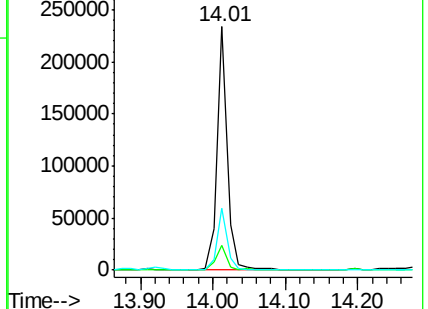
236 25.3 21.3 31.9

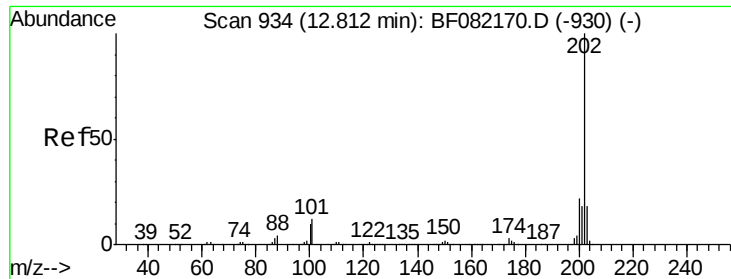


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 110.63 ng

RT: 12.80 min Scan# 933

Delta R.T. -0.01 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

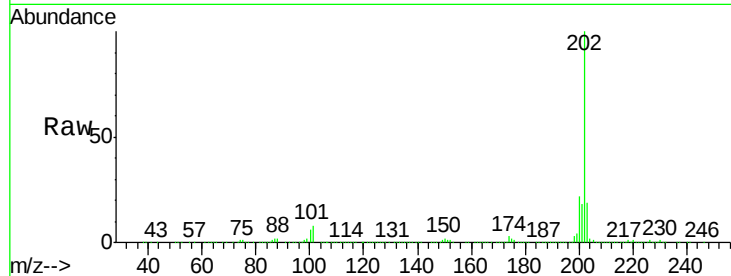
Tgt Ion:202 Resp: 1487296

Ion Ratio Lower Upper

202 100

200 22.1 17.9 26.9

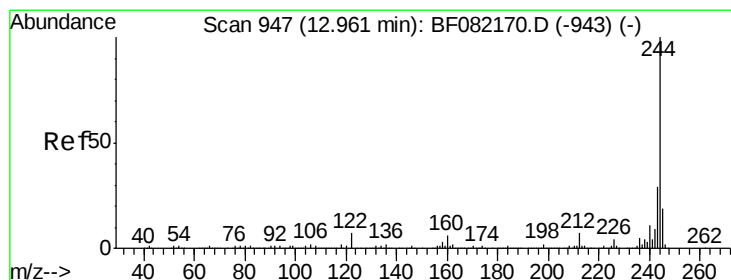
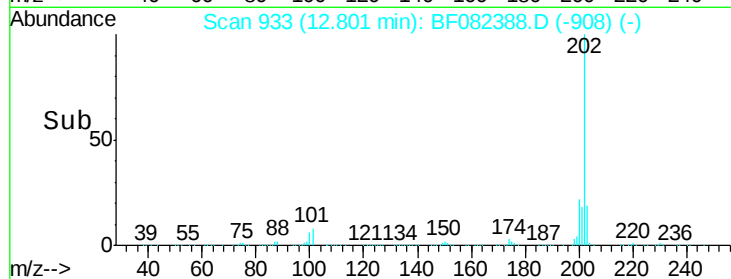
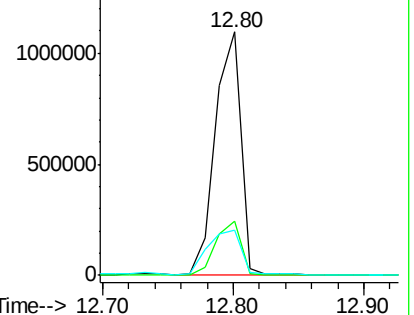
203 18.7 14.5 21.7



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: 1.78 ng

RT: 12.93 min Scan# 944

Delta R.T. -0.03 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

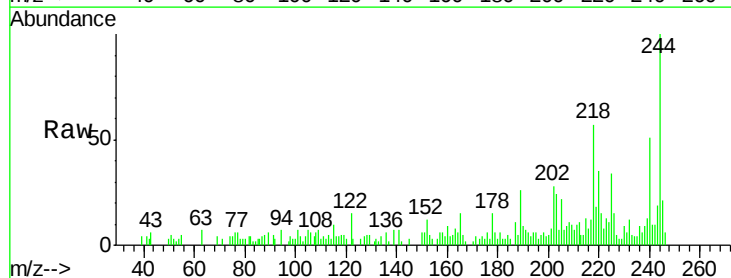
Tgt Ion:244 Resp: 15205

Ion Ratio Lower Upper

244 100

212 11.4 5.8 8.6#

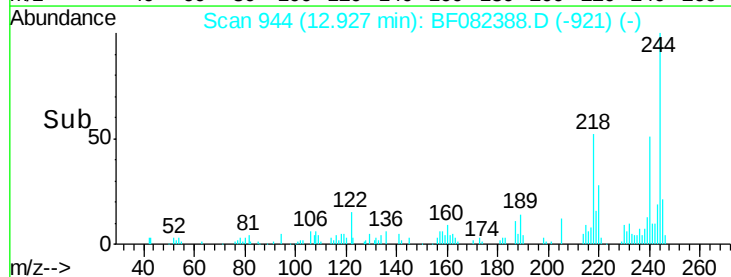
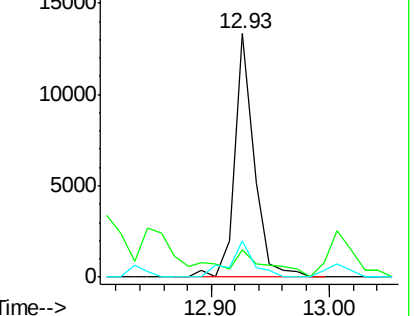
122 14.8 5.9 8.9#

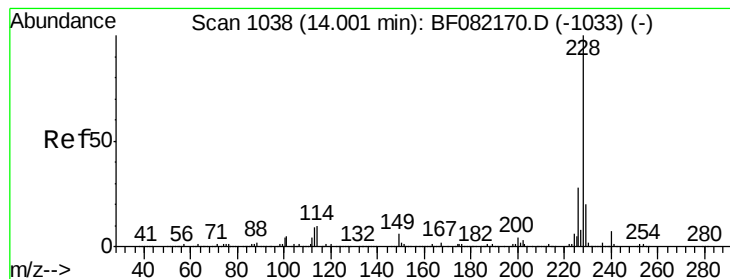


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 33.88 ng

RT: 14.00 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

Instrument :

BNA\_F

ClientSampleId :

GOODLUCK58DL

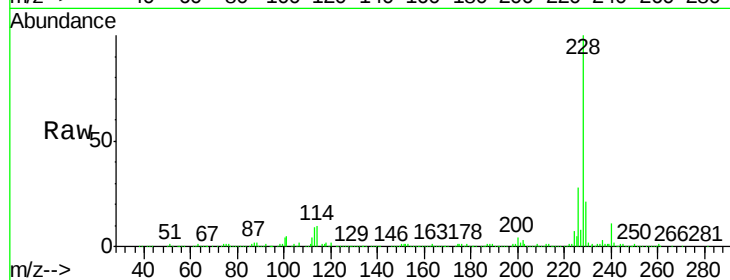
Tgt Ion:228 Resp: 399358

Ion Ratio Lower Upper

228 100

226 28.4 22.3 33.5

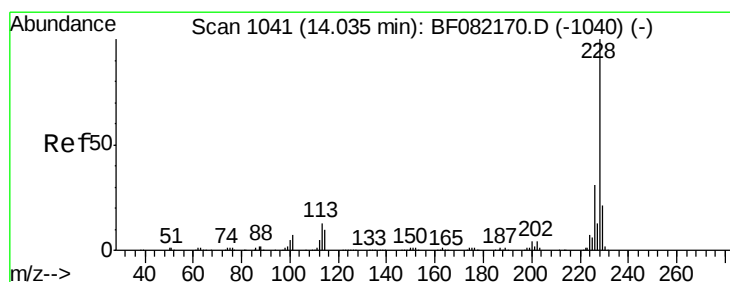
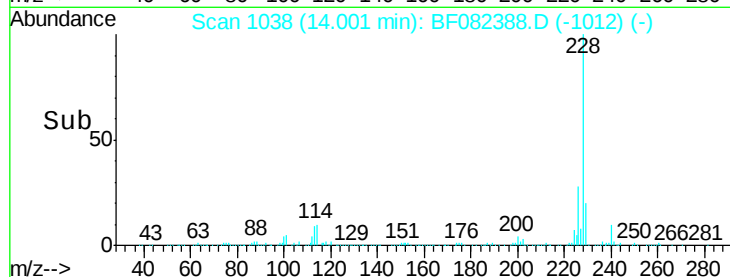
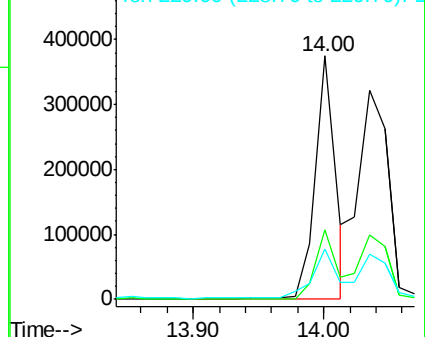
229 20.7 16.2 24.2



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: 34.09 ng

RT: 14.04 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BF082388.D

Acq: 20 Oct 2015 7:53

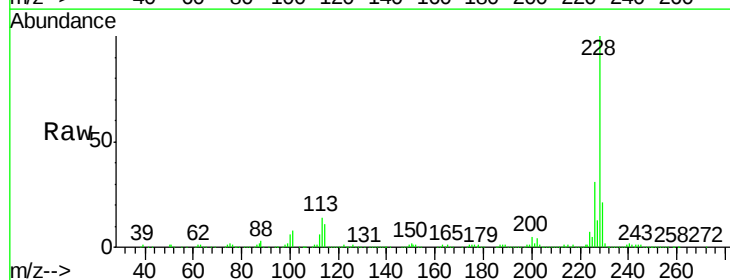
Tgt Ion:228 Resp: 423403

Ion Ratio Lower Upper

228 100

226 30.8 24.4 36.6

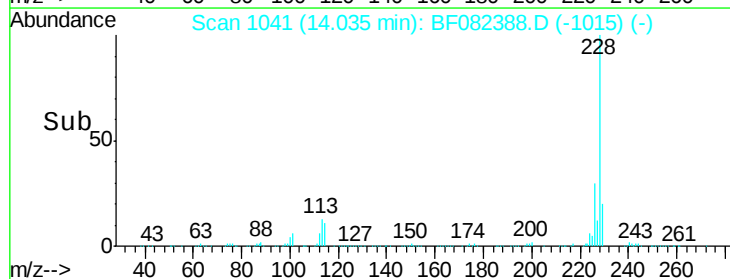
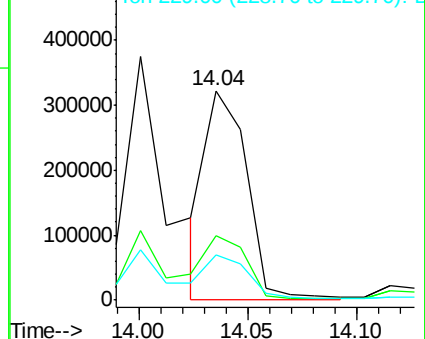
229 21.3 16.3 24.5

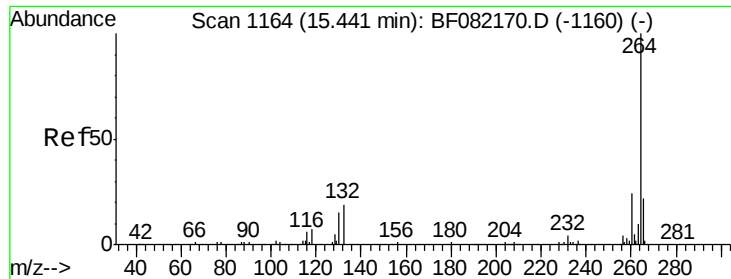


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

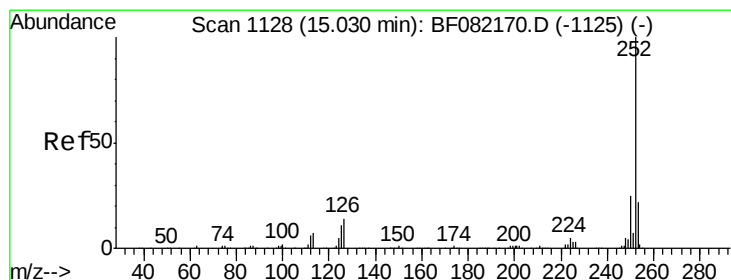
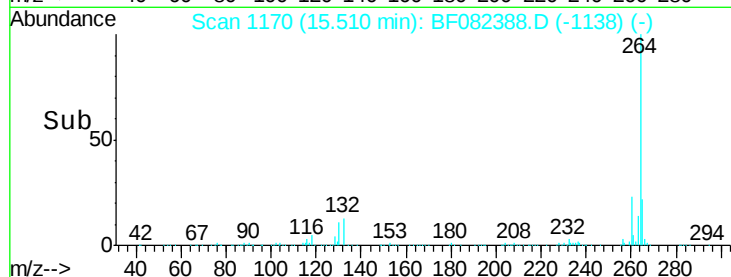
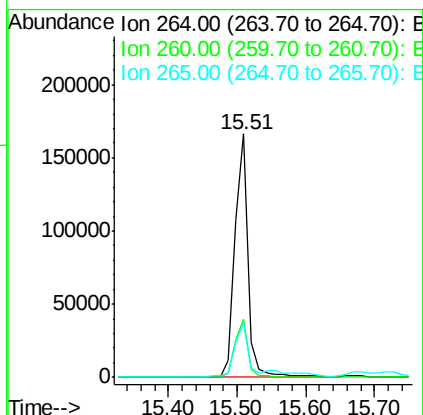
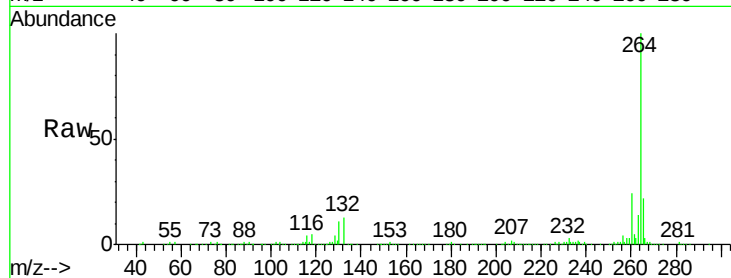




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.51 min Scan# 1170  
Delta R.T. 0.07 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

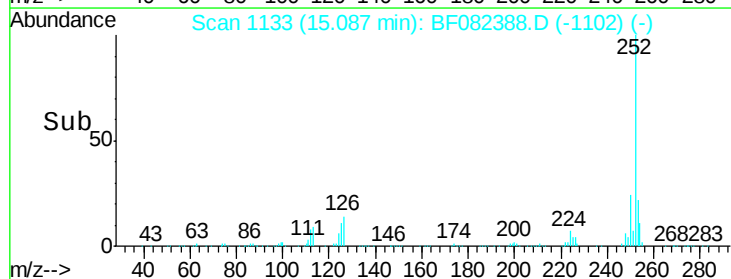
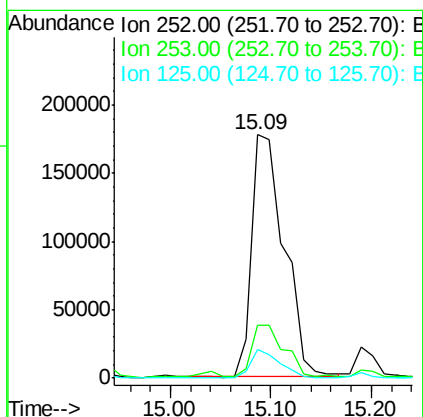
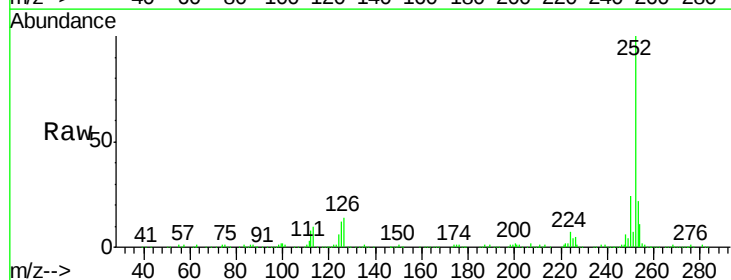
Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

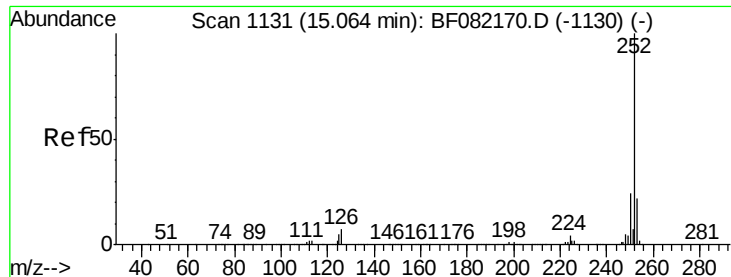
Tgt Ion: 264 Resp: 225265  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.0 28.6  
265 22.1 17.3 25.9



#87  
Benzo(b)fluoranthene  
Concen: 29.18 ng  
RT: 15.09 min Scan# 1133  
Delta R.T. 0.06 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

Tgt Ion: 252 Resp: 399891  
Ion Ratio Lower Upper  
252 100  
253 21.8 18.0 27.0  
125 11.6 8.6 12.8

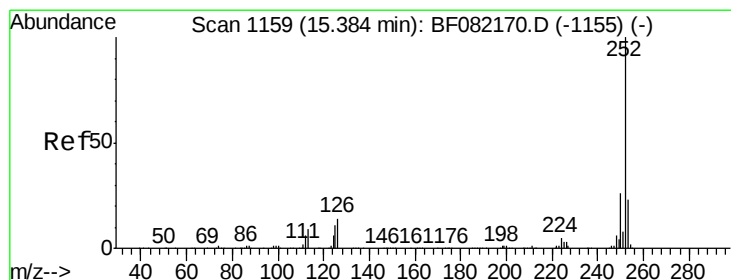
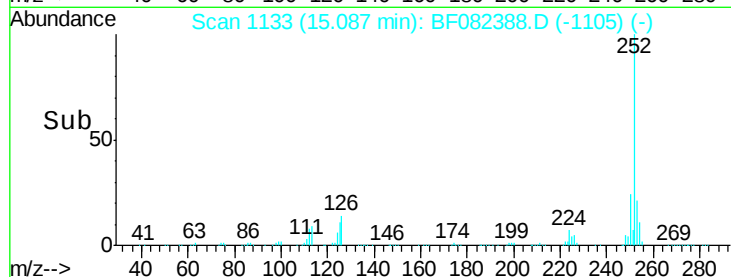
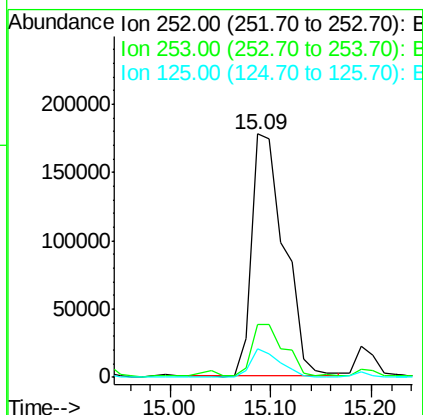
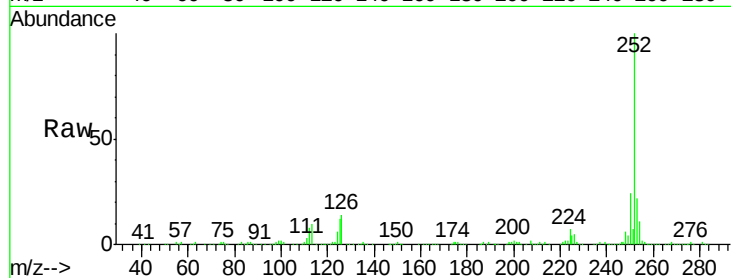




#88  
Benzo(k)fluoranthene  
Concen: 34.71 ng  
RT: 15.09 min Scan# 1133  
Delta R.T. 0.02 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

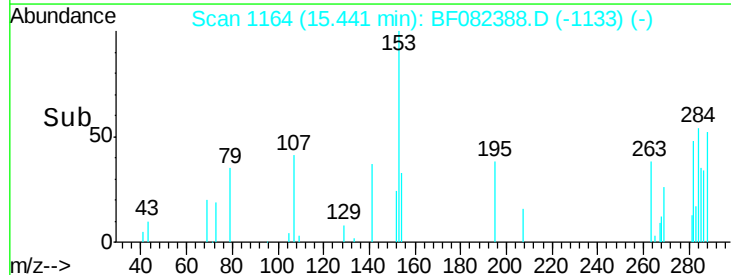
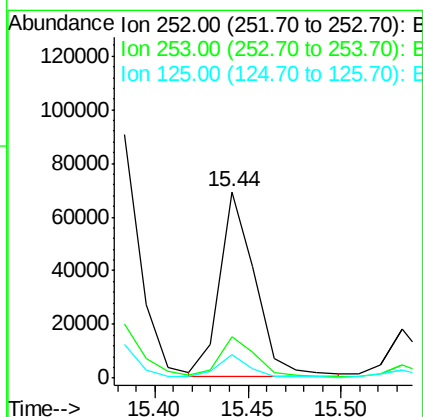
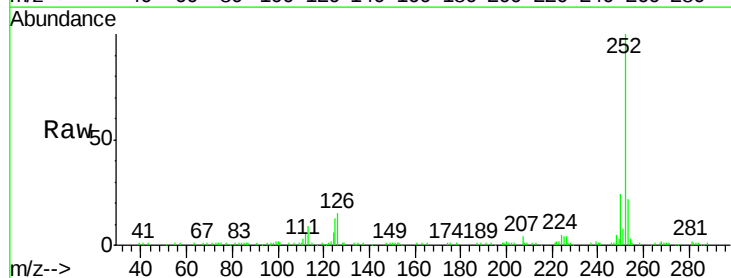
Instrument :  
BNA\_F  
ClientSampleId :  
GOODLUCK58DL

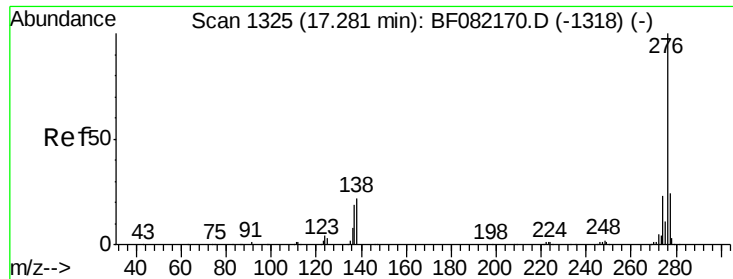
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.8  | 17.8  | 26.6  |
| 125     | 11.6  | 6.7   | 10.1# |



#89  
Benzo(a)pyrene  
Concen: 7.74 ng  
RT: 15.44 min Scan# 1164  
Delta R.T. 0.06 min  
Lab File: BF082388.D  
Acq: 20 Oct 2015 7:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 18.2  | 27.2  |
| 125     | 12.7  | 8.9   | 13.3  |





#91  
 Benzo(g,h,i)perylene  
 Concen: 2.89 ng  
 RT: 17.35 min Scan# 1331  
 Delta R.T. 0.07 min  
 Lab File: BF082388.D  
 Acq: 20 Oct 2015 7:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GOODLUCK58DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.2  | 18.8  | 28.2  |
| 138     | 23.8  | 17.4  | 26.2  |

