

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101015\  
 Data File : BF082214.D  
 Acq On : 11 Oct 2015 10:08  
 Operator : UM/IZ  
 Sample : G3928-06RE  
 Misc :  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(46-48)A

Quant Time: Oct 12 03:07:53 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 02:59:50 2015  
 Response via : Initial Calibration

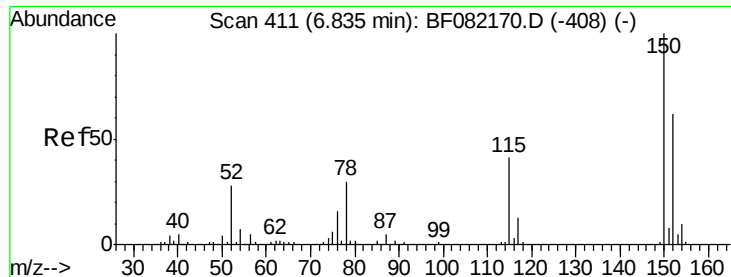
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 84143    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 337955   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.89  | 164  | 149673   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.37 | 188  | 243899   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.01 | 240  | 214042   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.44 | 264  | 172583   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.44  | 112  | 574840   | 137.88 | ng    | 0.01     |
| 7) Phenol-d6                | 6.48  | 99   | 760447   | 140.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 355178   | 70.58  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 160244   | 114.16 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 742161   | 82.23  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.96 | 244  | 573517   | 71.00  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 15) Benzyl Alcohol             | 6.99  | 79   | 7703     | 2.06      | ng    | # 48   |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 47187    | 12.38     | ng    | # 80   |
| 31) Naphthalene                | 8.15  | 128  | 51673    | 3.53      | ng    | 99     |
| 37) 2-Methylnaphthalene        | 8.94  | 142  | 26687    | 2.63      | ng    | 97     |
| 49) Dimethylphthalate          | 9.60  | 163  | 183156   | 17.38     | ng    | 99     |
| 55) 4-Nitrophenol              | 10.08 | 139  | 460      | Below Cal |       | # 11   |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 18985    | 6.83      | ng    | # 22   |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 10945    | 4.48      | ng    | # 1    |
| 70) Phenanthrene               | 11.40 | 178  | 25692    | 2.15      | ng    | 98     |
| 74) Fluoranthene               | 12.58 | 202  | 32091    | 2.50      | ng    | 96     |
| 77) Pyrene                     | 12.81 | 202  | 44788    | 3.53      | ng    | 97     |
| 80) Benzo(a)anthracene         | 14.04 | 228  | 43585    | 3.91      | ng    | 94     |
| 82) Chrysene                   | 14.04 | 228  | 43585    | 3.71      | ng    | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 13.98 | 149  | 92772    | 11.22     | ng    | # 99   |
| 87) Benzo(b)fluoranthene       | 15.03 | 252  | 47393    | 4.51      | ng    | 98     |
| 88) Benzo(k)fluoranthene       | 15.03 | 252  | 47393    | 5.37      | ng    | # 95   |
| 89) Benzo(a)pyrene             | 15.38 | 252  | 27755    | 3.08      | ng    | 98     |
| 91) Benzo(g,h,i)perylene       | 17.27 | 276  | 15745    | 2.19      | ng    | 97     |

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



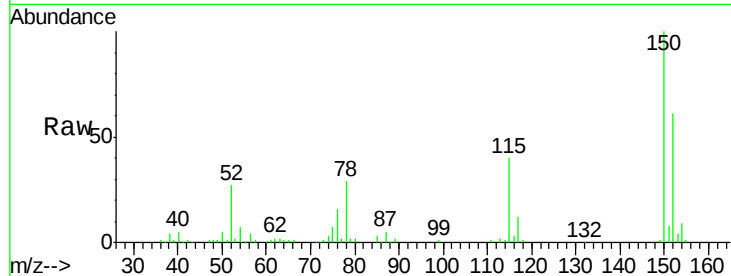


#1

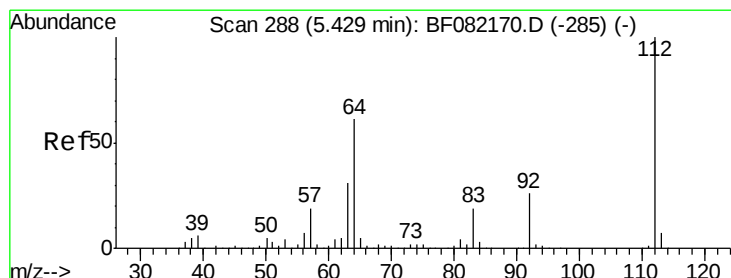
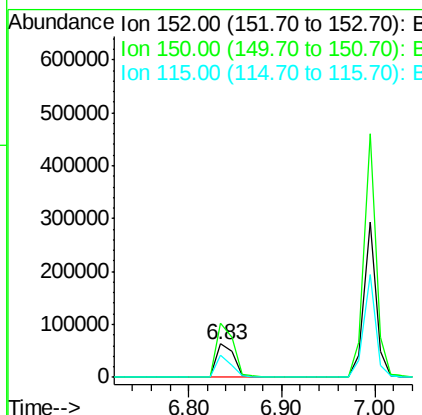
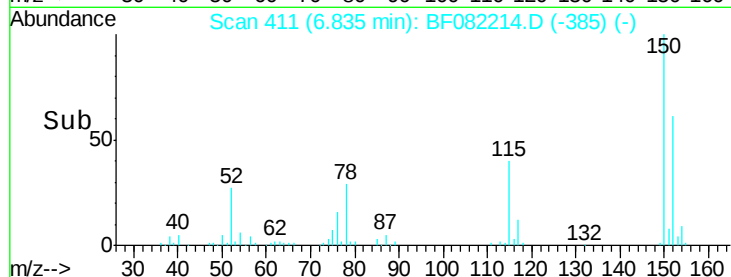
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.83 min Scan# 411  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

Tot Ion:152 Resp: 84143  
Ion Ratio Lower Upper  
152 100  
150 162.8 129.0 193.4  
115 65.0 52.1 78.1



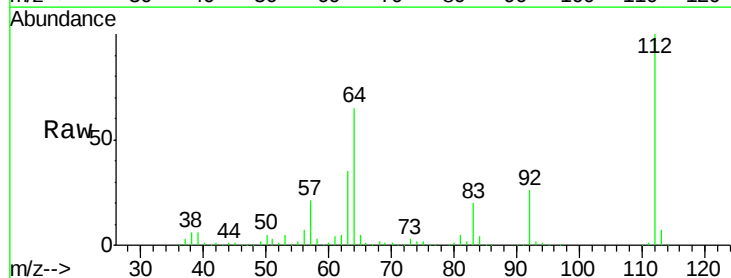
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



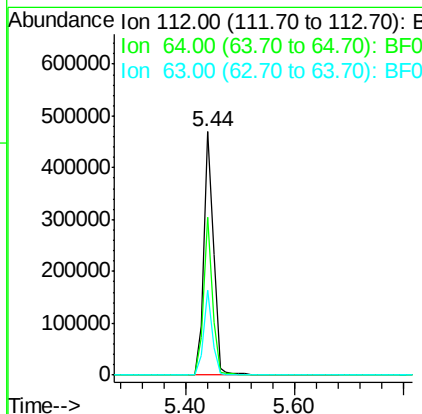
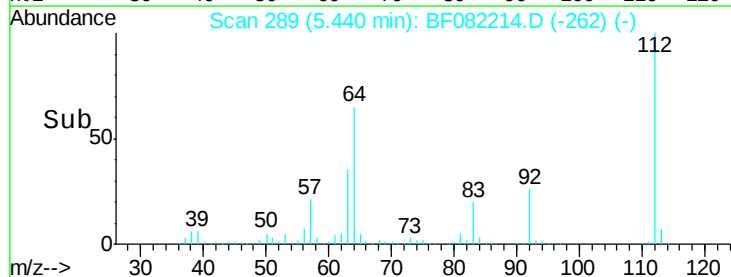
#5

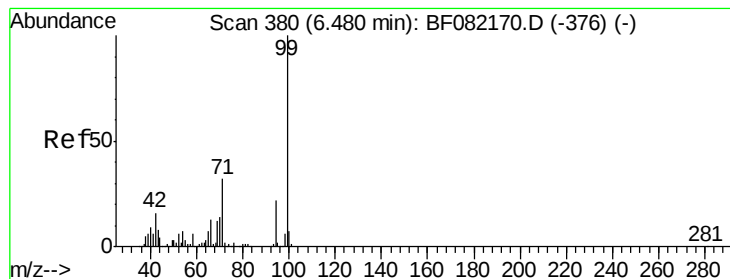
2-Fluorophenol  
Concen: 137.88 ng  
RT: 5.44 min Scan# 289  
Delta R.T. 0.01 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:112 Resp: 574840  
Ion Ratio Lower Upper  
112 100  
64 65.0 48.6 73.0  
63 34.7 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: 140.16 ng

RT: 6.48 min Scan# 380

Delta R.T. 0.00 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(46-48)A

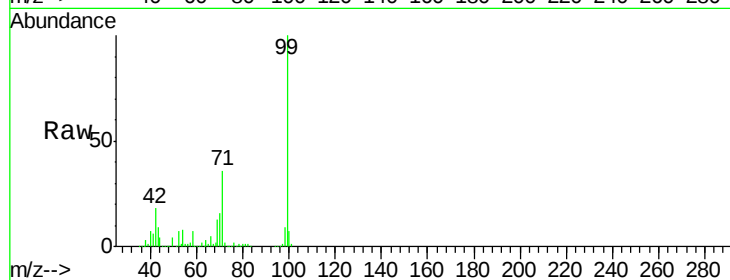
Tot Ion: 99 Resp: 760447

Ion Ratio Lower Upper

99 100

42 18.5 13.2 19.8

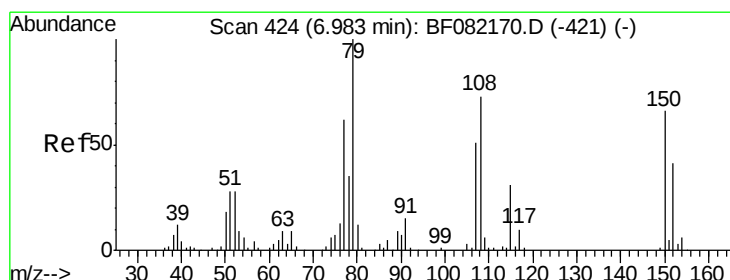
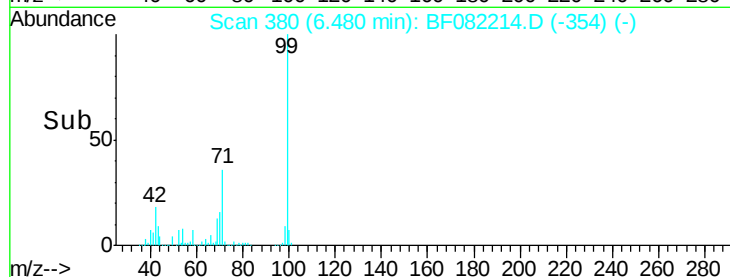
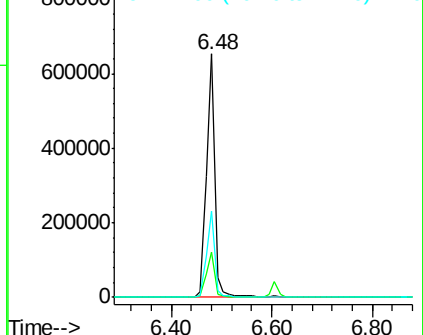
71 35.6 25.6 38.4



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



#15

Benzyl Alcohol

Concen: 2.06 ng

RT: 6.99 min Scan# 425

Delta R.T. 0.01 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

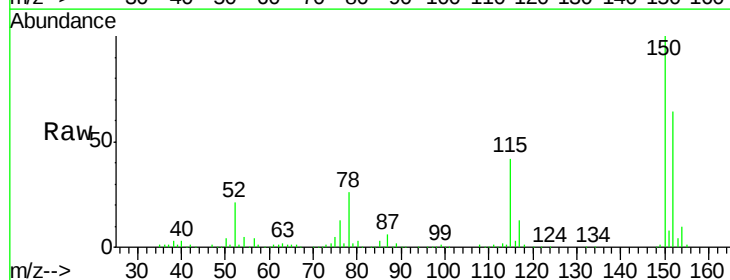
Tgt Ion: 79 Resp: 7703

Ion Ratio Lower Upper

79 100

108 29.7 58.4 87.6#

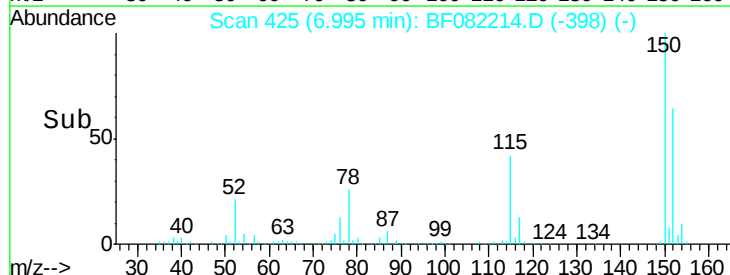
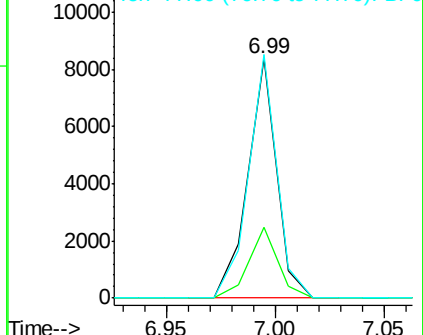
77 101.8 49.8 74.6#

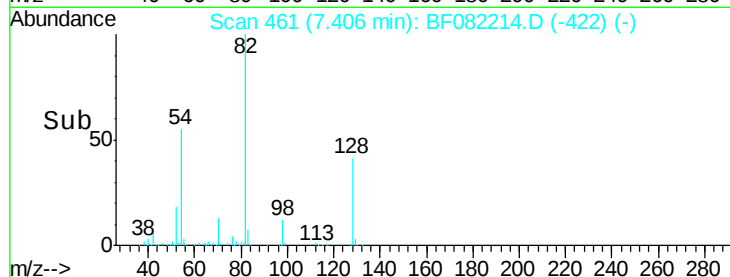
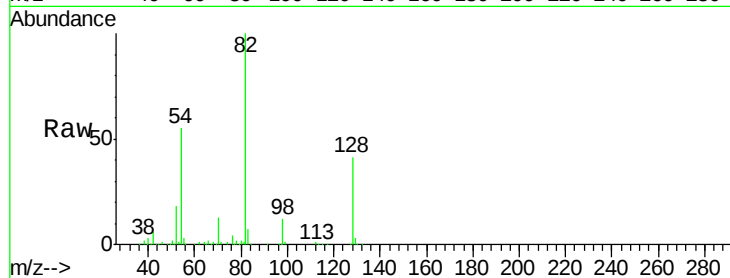
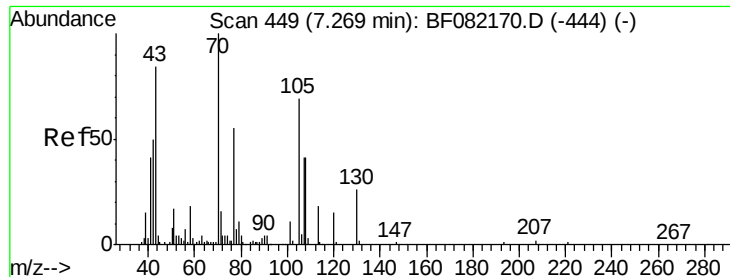


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

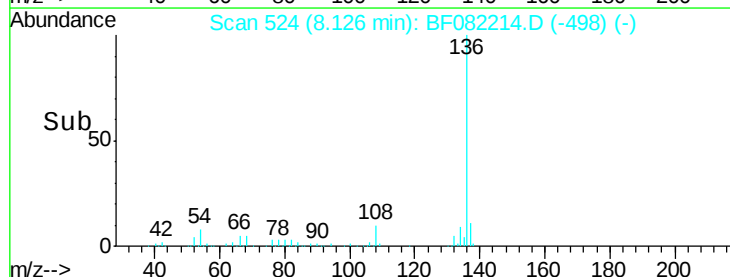
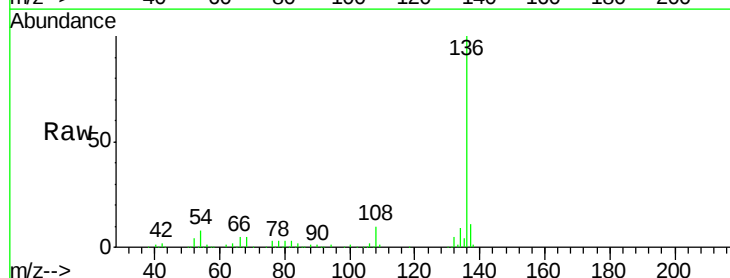
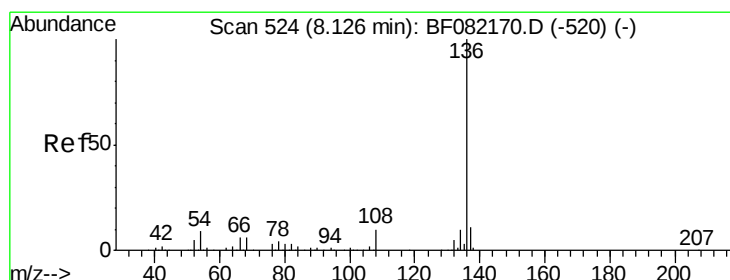
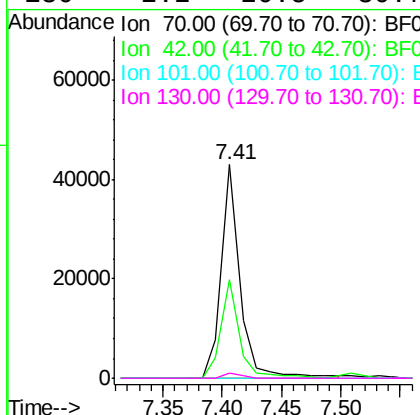




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.38 ng  
RT: 7.41 min Scan# 461  
Delta R.T. 0.15 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

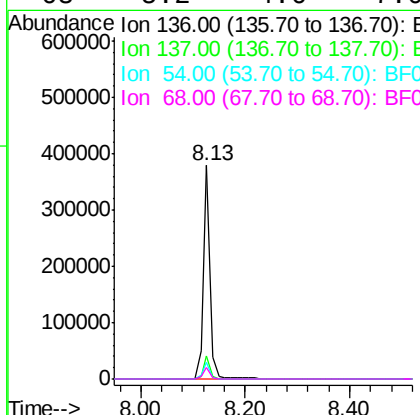
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

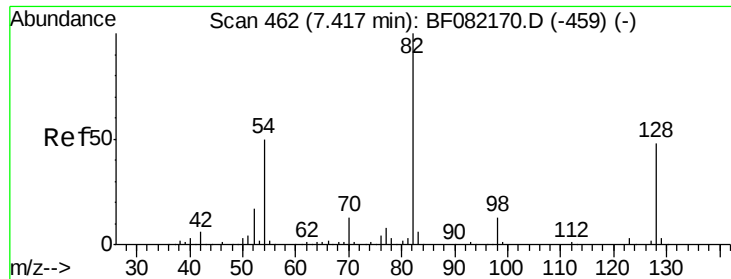
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 46.4  | 39.8  | 59.8  |
| 101     | 0.0   | 8.6   | 13.0# |
| 130     | 2.2   | 20.5  | 30.7# |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 524  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.0  | 9.0   | 13.6  |
| 54      | 8.0   | 7.5   | 11.3  |
| 68      | 5.2   | 4.6   | 7.0   |

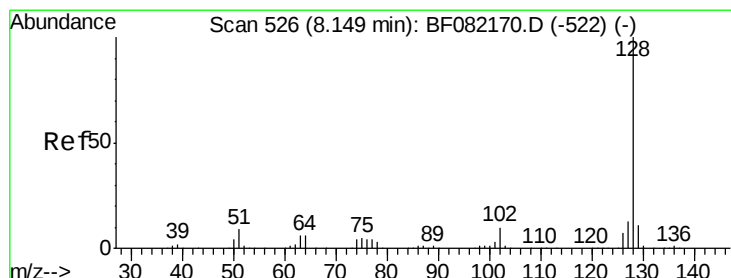
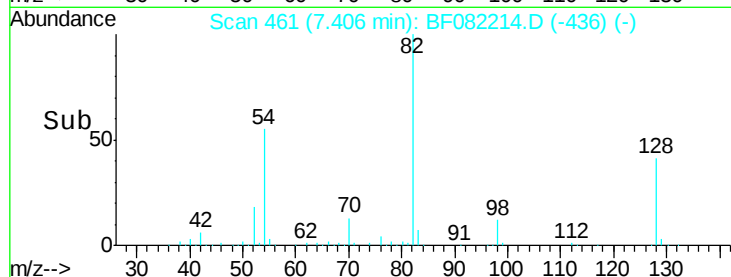
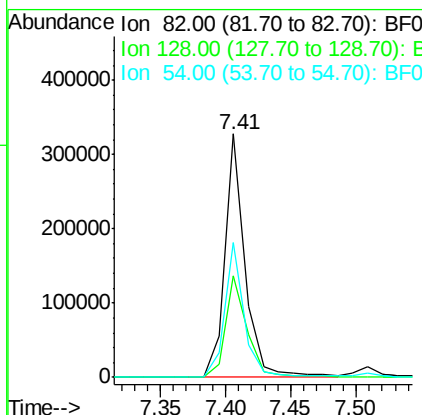
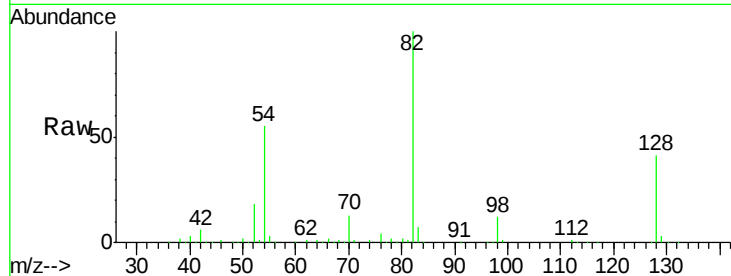




#23  
 Nitrobenzene-d5  
 Concen: 70.58 ng  
 RT: 7.41 min Scan# 461  
 Delta R.T. -0.01 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

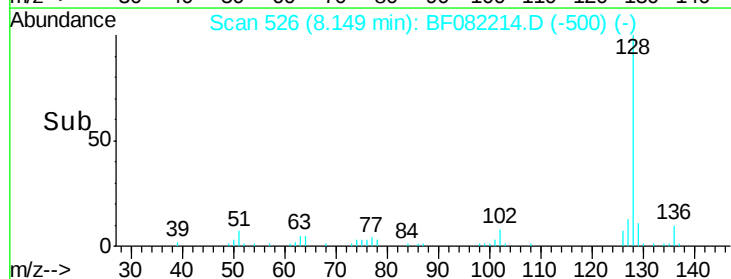
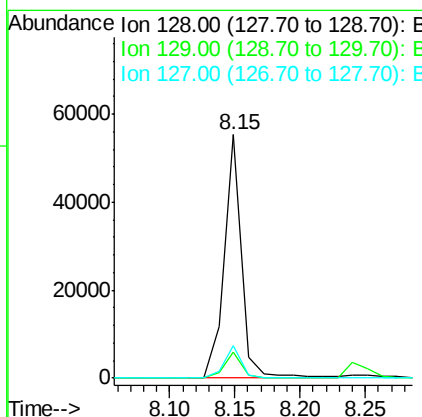
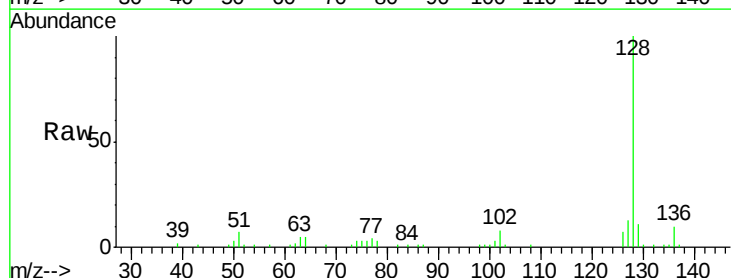
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(46-48)A

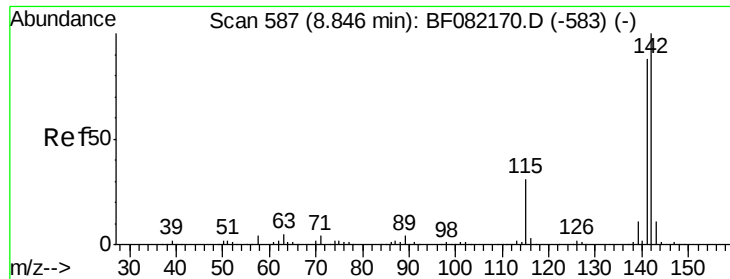
Tot Ion: 82 Resp: 355178  
 Ion Ratio Lower Upper  
 82 100  
 128 41.5 38.7 58.1  
 54 55.2 40.1 60.1



#31  
 Naphthalene  
 Concen: 3.53 ng  
 RT: 8.15 min Scan# 526  
 Delta R.T. 0.00 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

Tgt Ion: 128 Resp: 51673  
 Ion Ratio Lower Upper  
 128 100  
 129 10.7 9.1 13.7  
 127 13.1 10.7 16.1

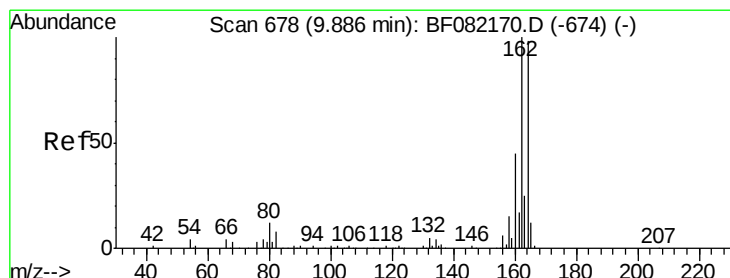
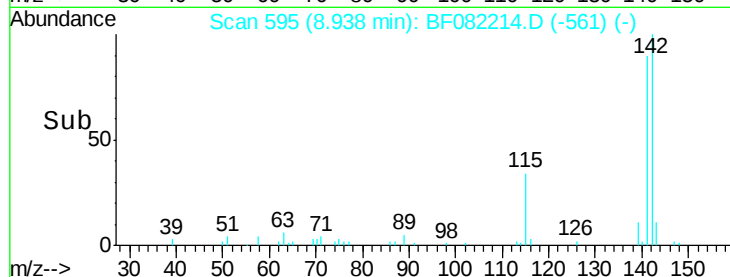
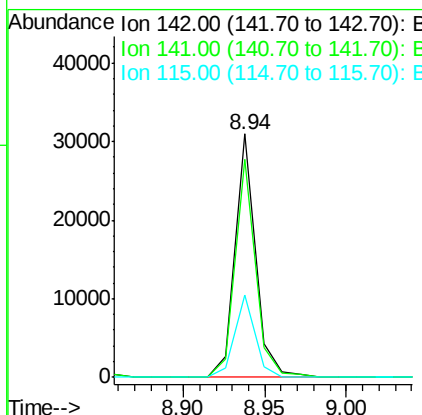
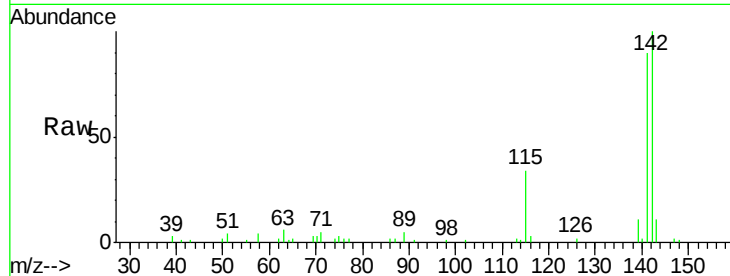




#37  
2-Methylnaphthalene  
Concen: 2.63 ng  
RT: 8.94 min Scan# 595  
Delta R.T. 0.09 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

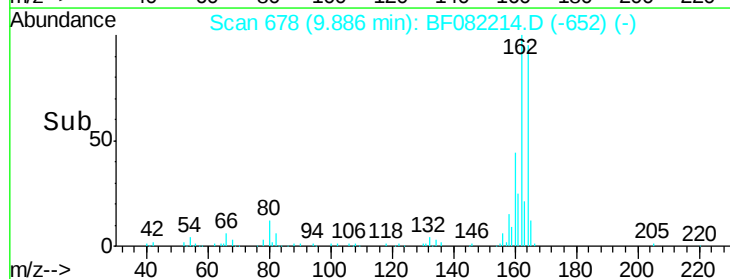
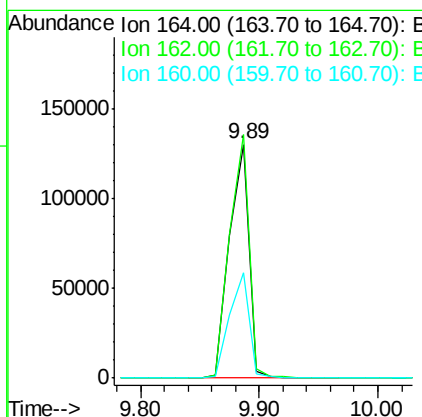
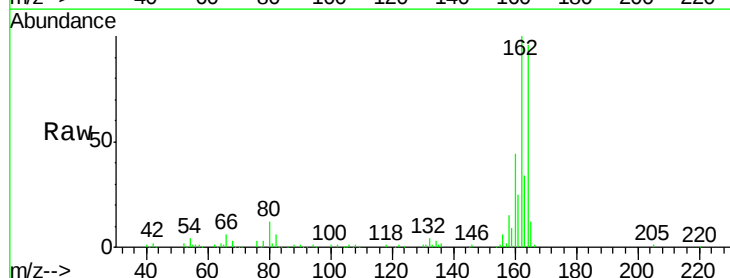
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

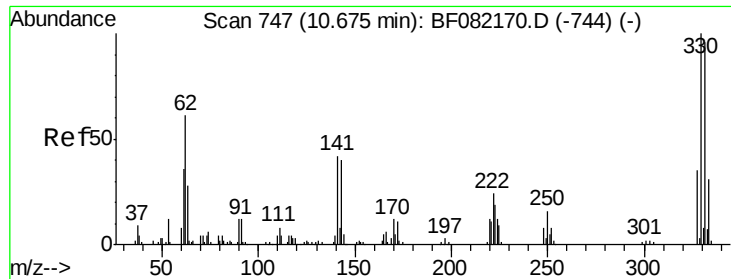
Tot Ion:142 Resp: 26687  
Ion Ratio Lower Upper  
142 100  
141 89.7 70.4 105.6  
115 33.9 24.6 37.0



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.89 min Scan# 678  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:164 Resp: 149673  
Ion Ratio Lower Upper  
164 100  
162 104.1 81.6 122.4  
160 45.3 36.4 54.6

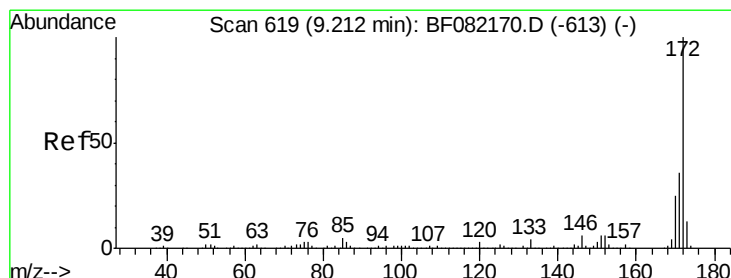
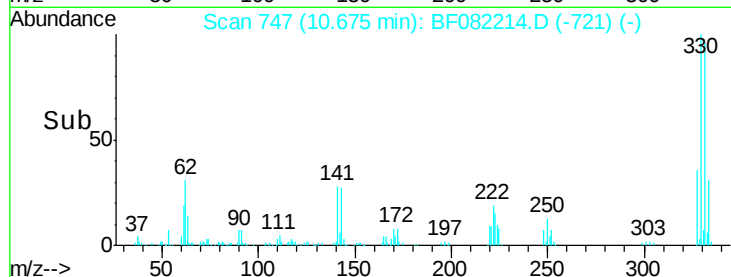
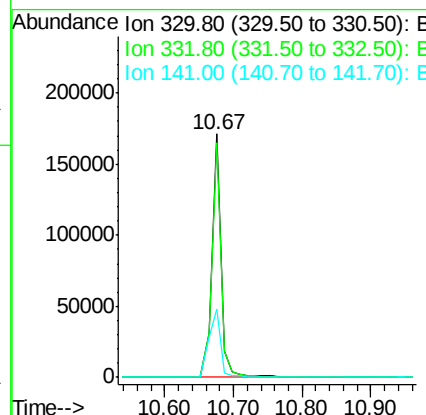
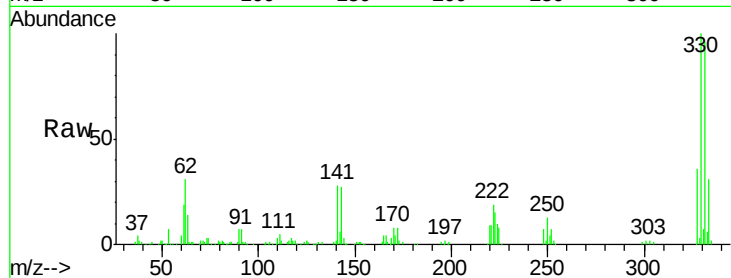




#41  
 2,4,6-Tribromophenol  
 Concen: 114.16 ng  
 RT: 10.67 min Scan# 747  
 Delta R.T. 0.00 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

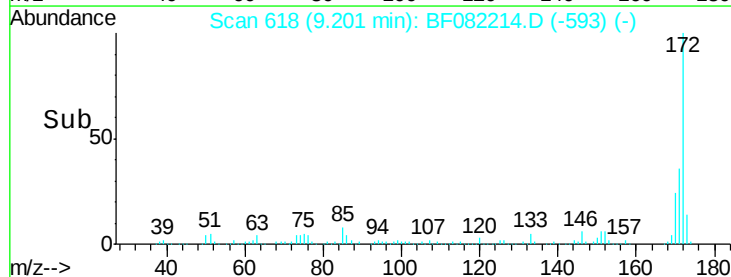
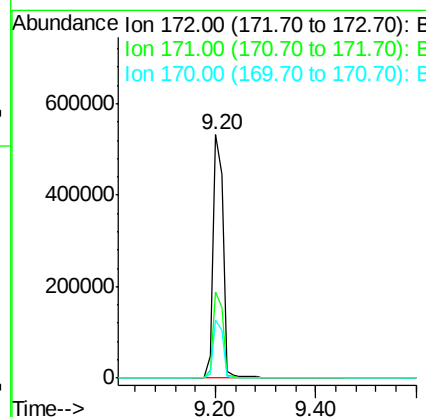
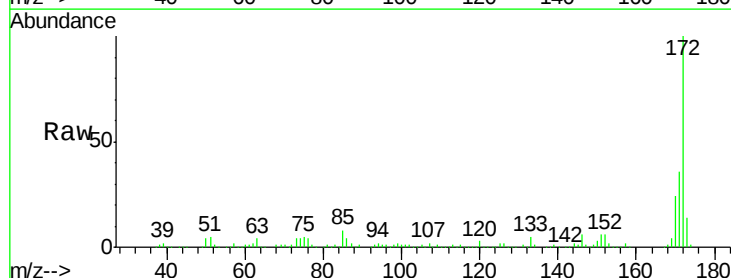
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(46-48)A

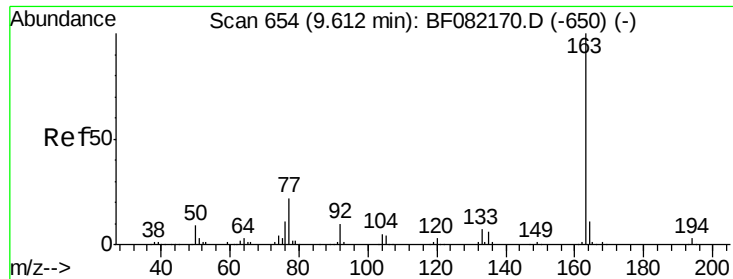
Tot Ion:330 Resp: 160244  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 77.1 115.7  
 141 35.4 29.8 44.8



#44  
 2-Fluorobiphenyl  
 Concen: 82.23 ng  
 RT: 9.20 min Scan# 618  
 Delta R.T. -0.01 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

Tgt Ion:172 Resp: 742161  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 28.6 42.8  
 170 24.0 19.7 29.5

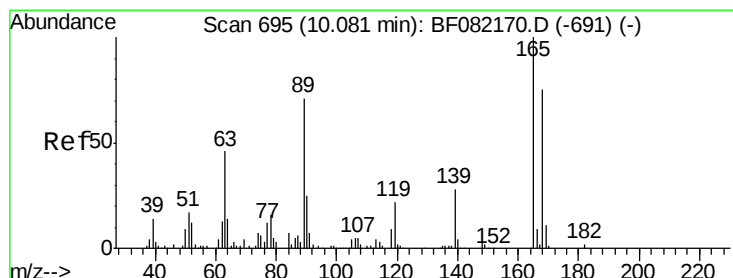
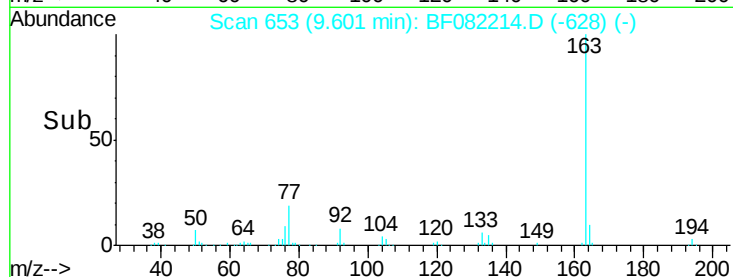
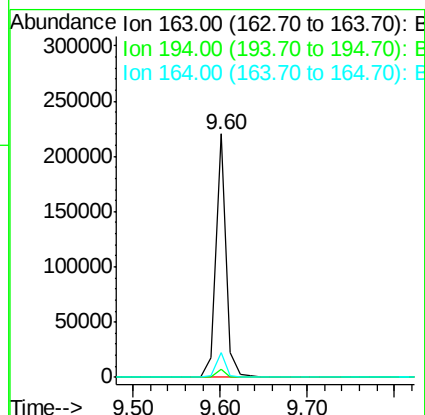
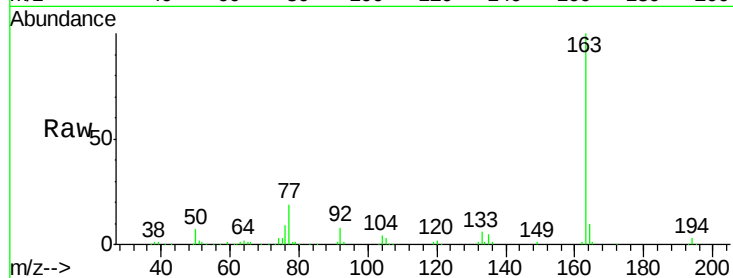




#49  
Dimethylphthalate  
Concen: 17.38 ng  
RT: 9.60 min Scan# 653  
Delta R.T. -0.01 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

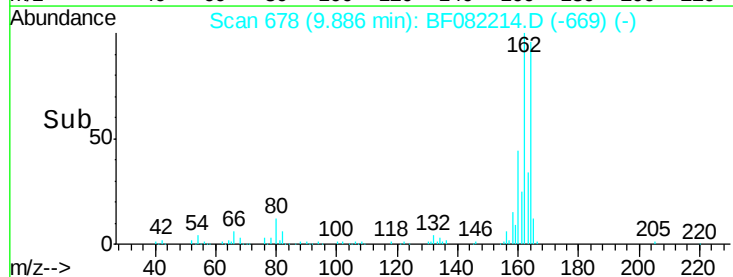
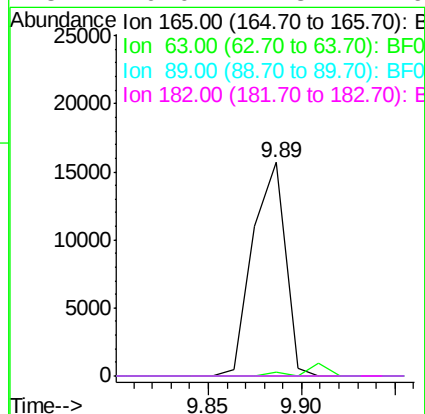
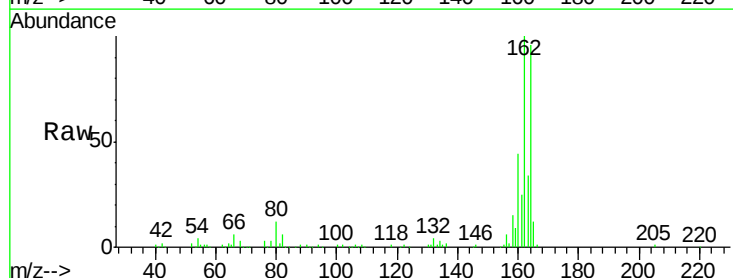
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

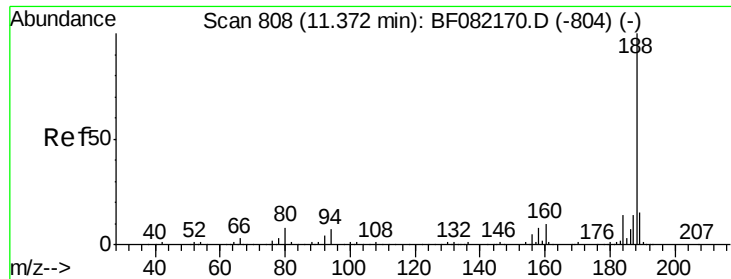
Tot Ion:163 Resp: 183156  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.6 4.0  
164 10.2 8.5 12.7



#56  
2,4-Dinitrotoluene  
Concen: 6.83 ng  
RT: 9.89 min Scan# 678  
Delta R.T. -0.19 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:165 Resp: 18985  
Ion Ratio Lower Upper  
165 100  
63 2.0 38.6 58.0#  
89 0.0 57.0 85.6#  
182 0.0 1.8 2.6#

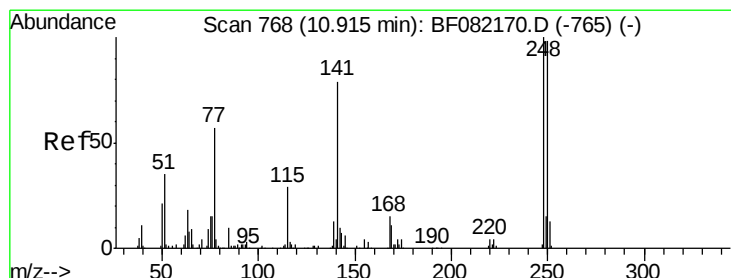
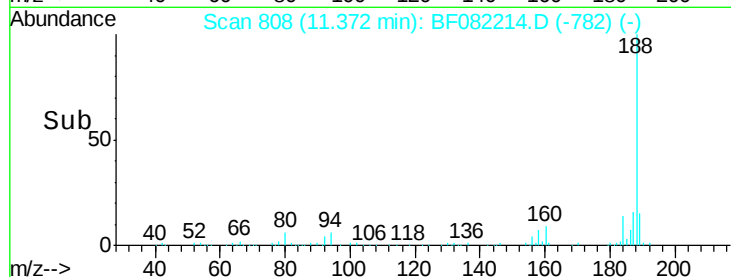
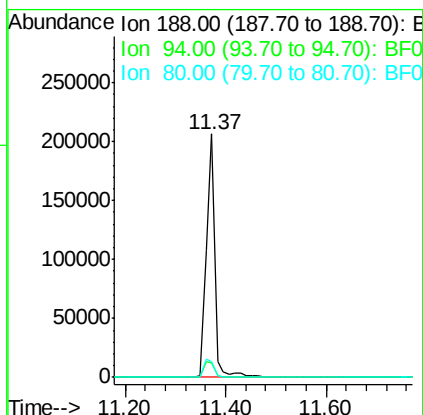
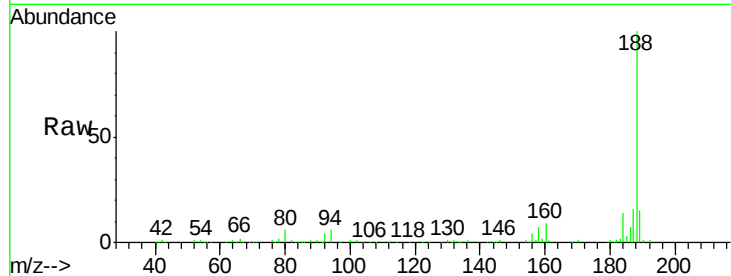




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 808  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

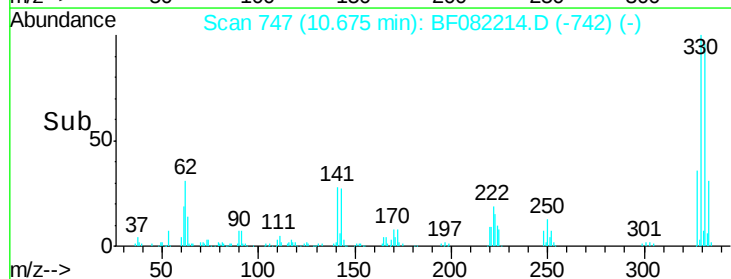
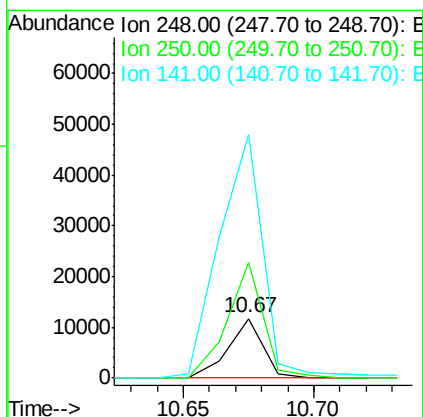
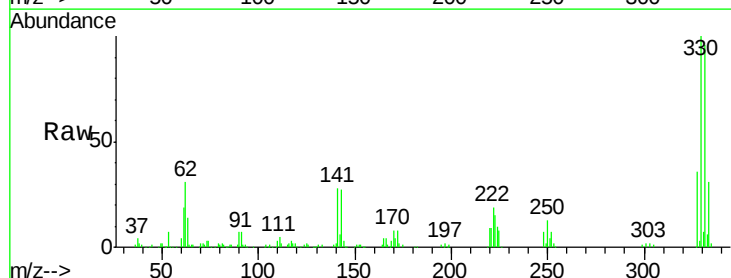
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

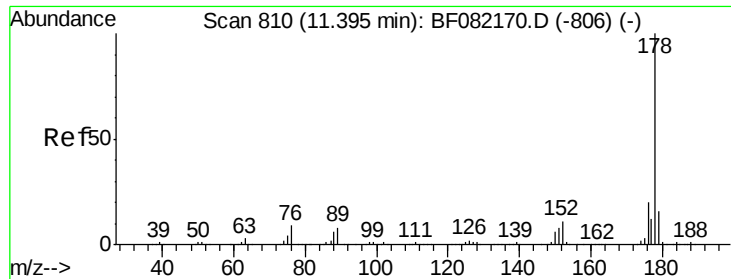
Tot Ion:188 Resp: 243899  
Ion Ratio Lower Upper  
188 100  
94 6.0 5.8 8.6  
80 6.4 6.4 9.6



#66  
4-Bromophenyl-phenylether  
Concen: 4.48 ng  
RT: 10.67 min Scan# 747  
Delta R.T. -0.24 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:248 Resp: 10945  
Ion Ratio Lower Upper  
248 100  
250 195.1 78.6 117.8#  
141 410.0 63.3 94.9#

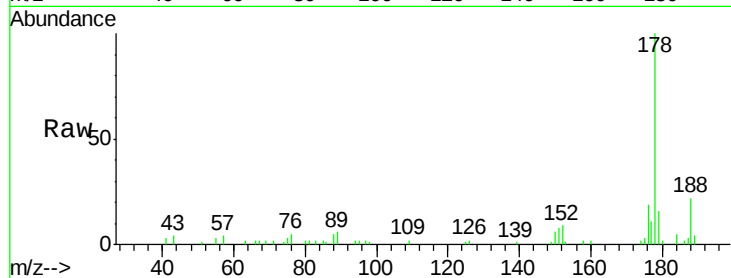




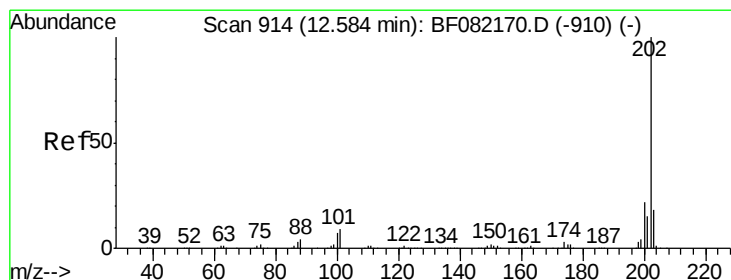
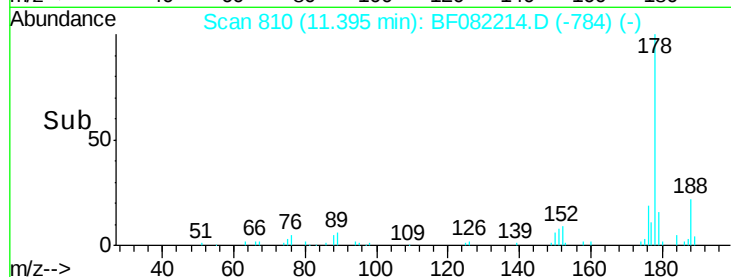
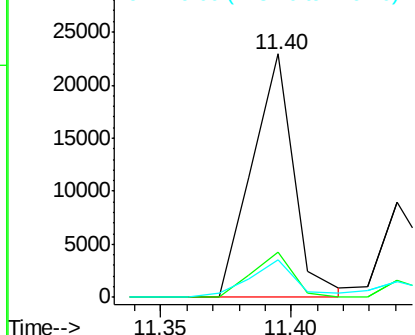
#70  
Phenanthrene  
Concen: 2.15 ng  
RT: 11.40 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

Tot Ion:178 Resp: 25692  
Ion Ratio Lower Upper  
178 100  
176 18.5 16.0 24.0  
179 15.6 12.6 19.0

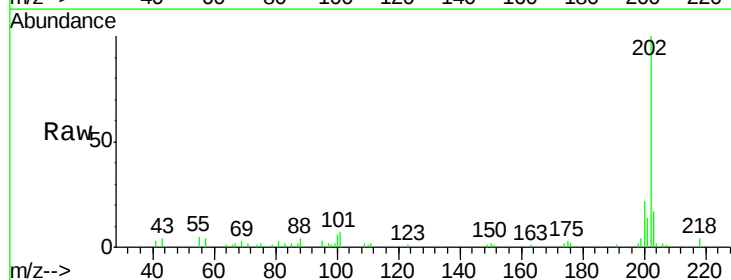


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

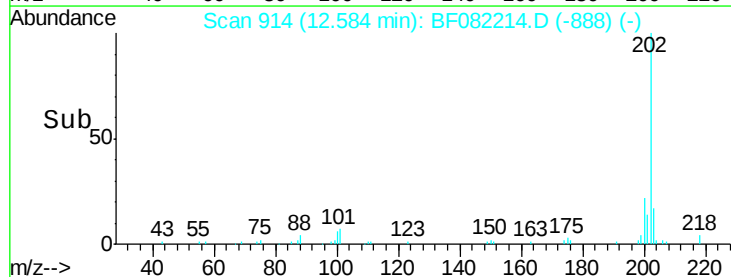
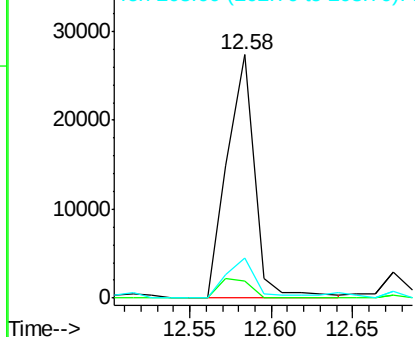


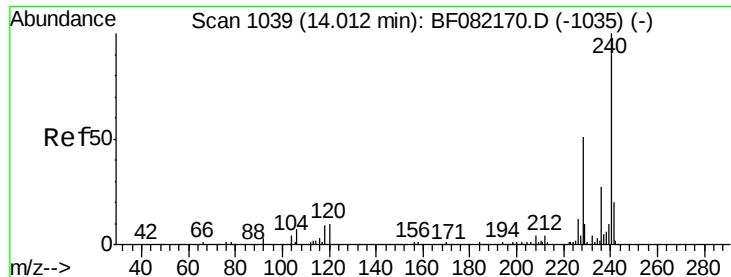
#74  
Fluoranthene  
Concen: 2.50 ng  
RT: 12.58 min Scan# 914  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:202 Resp: 32091  
Ion Ratio Lower Upper  
202 100  
101 6.8 0.0 29.3  
203 16.5 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: BF082214.D

Acq: 11 Oct 2015 10:08

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(46-48)A

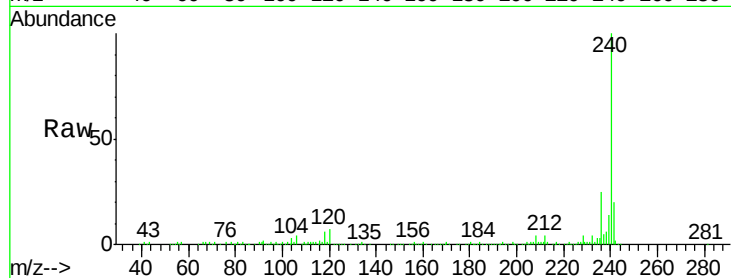
Tot Ion:240 Resp: 214042

Ion Ratio Lower Upper

240 100

120 6.6 8.1 12.1#

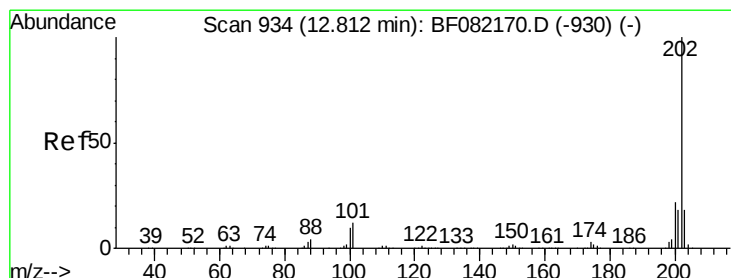
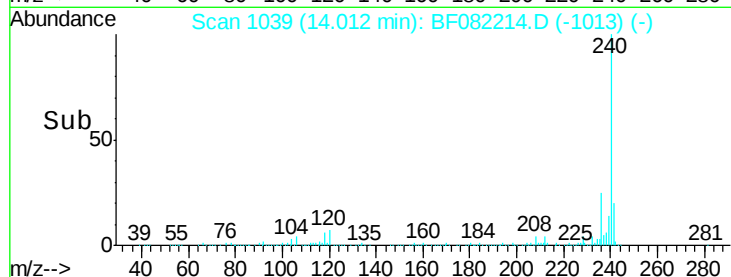
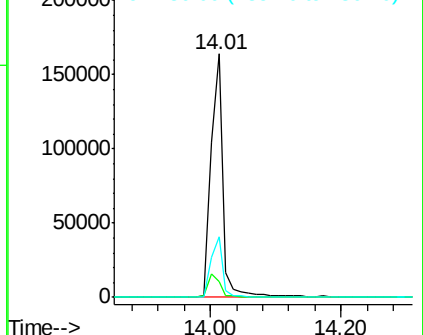
236 25.0 21.3 31.9



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: 3.53 ng

RT: 12.81 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

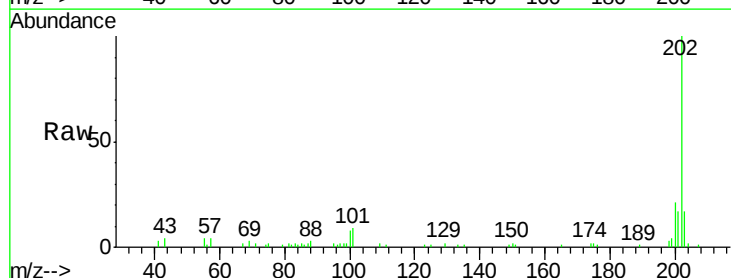
Tgt Ion:202 Resp: 44788

Ion Ratio Lower Upper

202 100

200 21.2 17.9 26.9

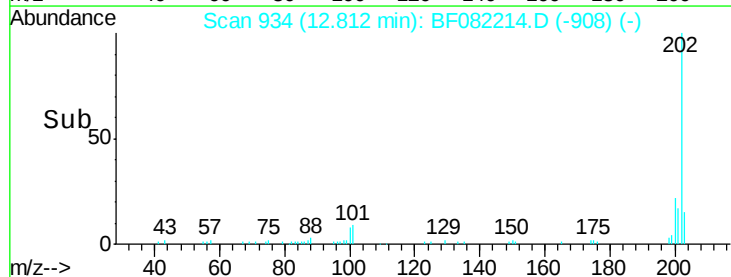
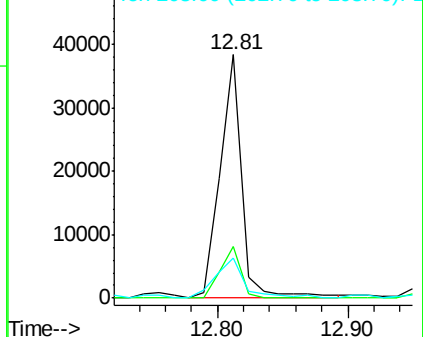
203 16.6 14.5 21.7

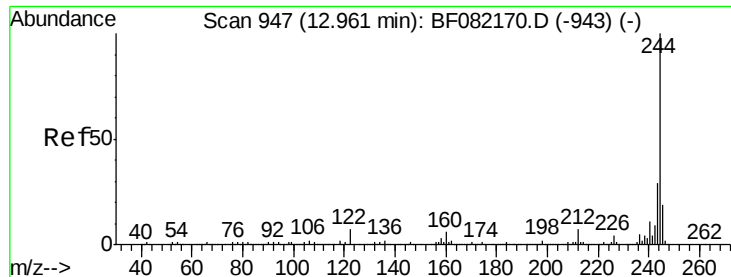


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 71.00 ng

RT: 12.96 min Scan# 947

Delta R.T. 0.00 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(46-48)A

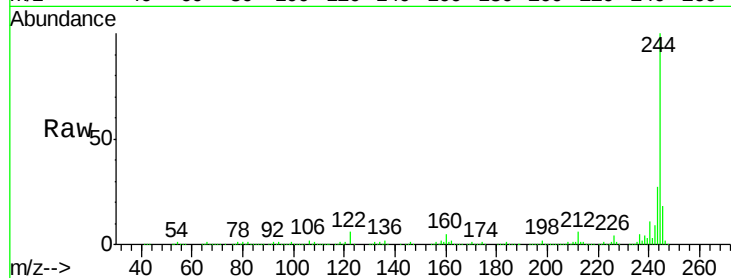
Tot Ion:244 Resp: 573517

Ion Ratio Lower Upper

244 100

212 6.4 5.8 8.6

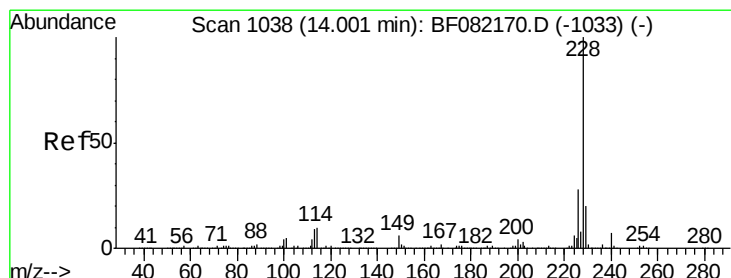
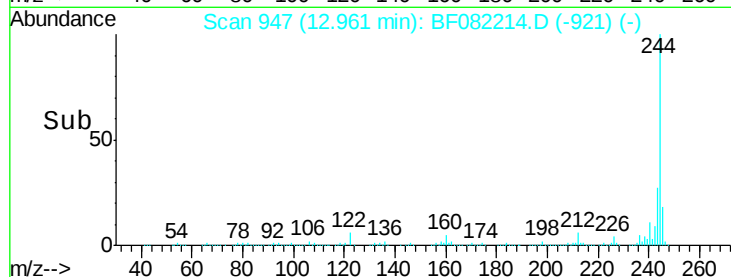
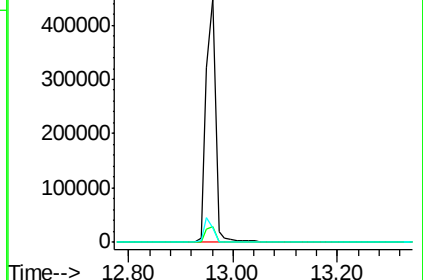
122 5.8 5.9 8.9#



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: 3.91 ng

RT: 14.04 min Scan# 1041

Delta R.T. 0.03 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

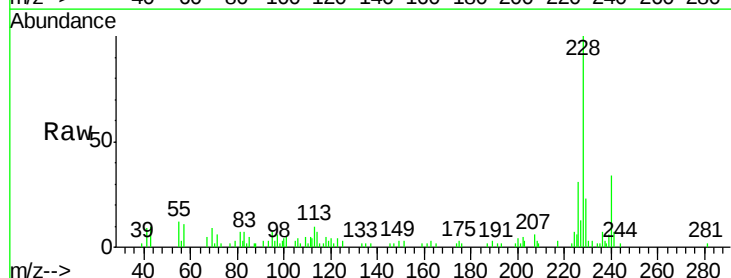
Tgt Ion:228 Resp: 43585

Ion Ratio Lower Upper

228 100

226 31.1 22.3 33.5

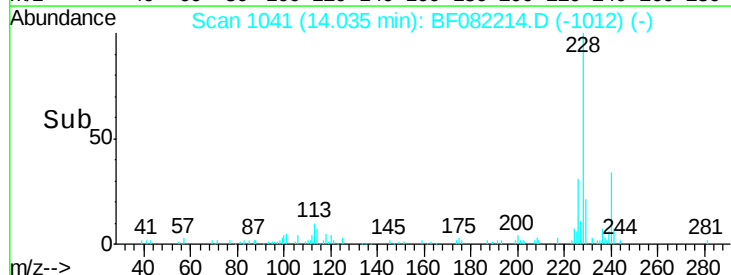
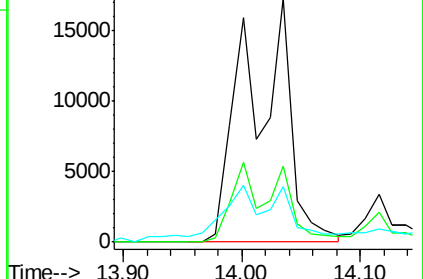
229 23.0 16.2 24.2

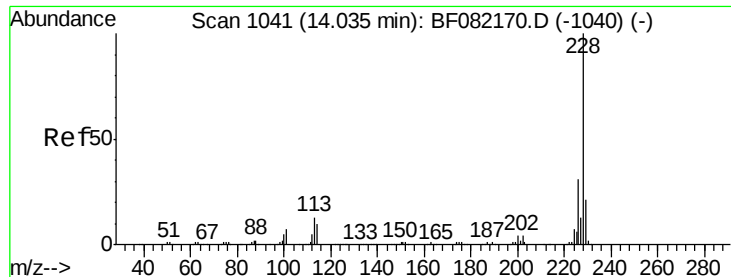


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

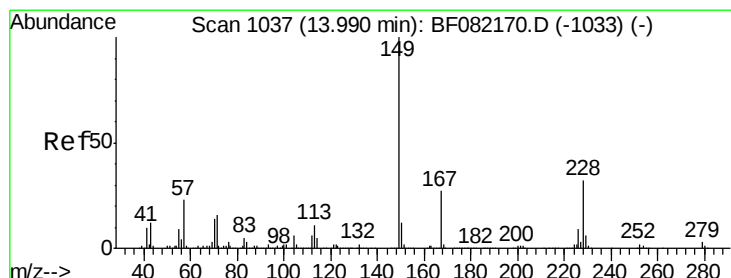
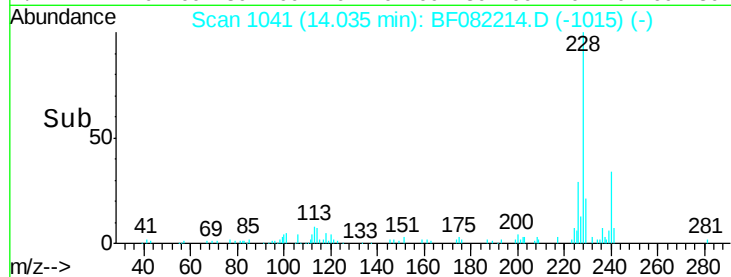
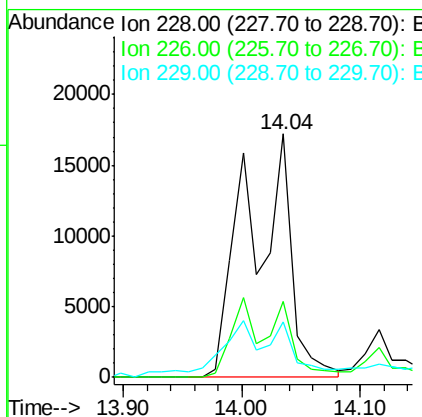
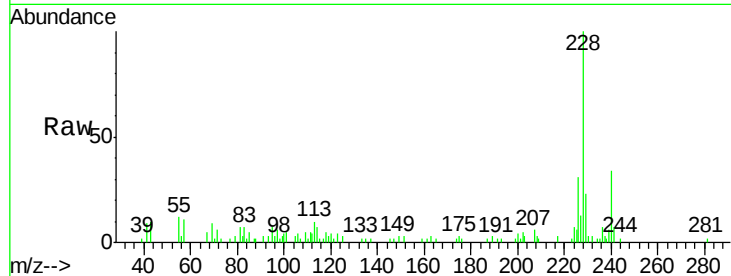




#82  
 Chrysene  
 Concen: 3.71 ng  
 RT: 14.04 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

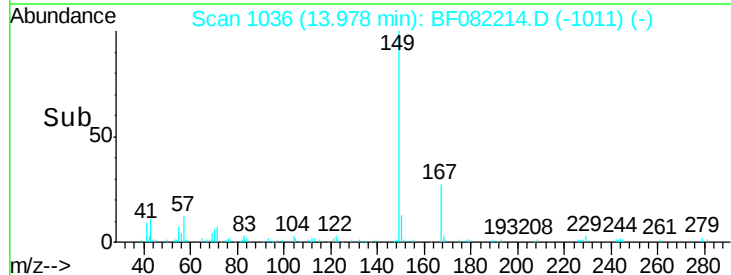
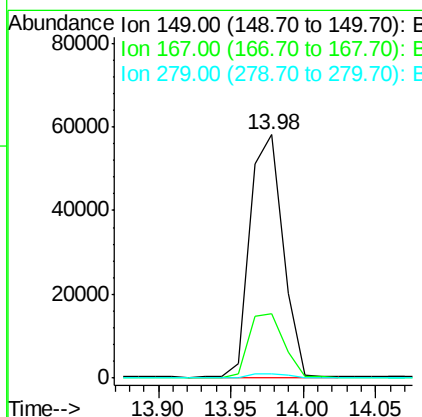
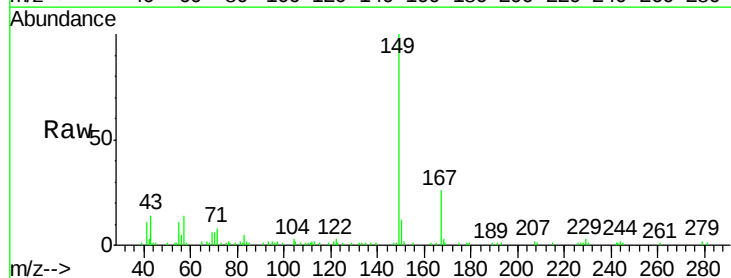
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OS-SB-22(46-48)A

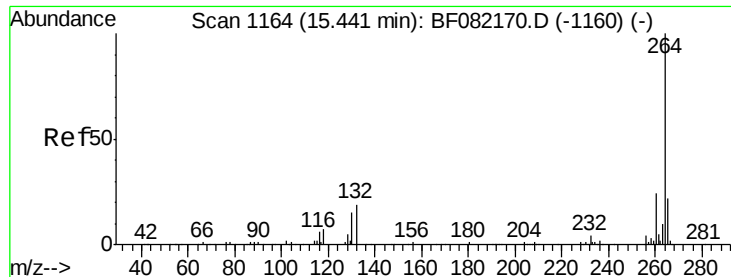
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 24.4  | 36.6  |
| 229     | 23.0  | 16.3  | 24.5  |



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 11.22 ng  
 RT: 13.98 min Scan# 1036  
 Delta R.T. -0.01 min  
 Lab File: BF082214.D  
 Acq: 11 Oct 2015 10:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.4  | 21.3  | 31.9  |
| 279     | 2.0   | 2.6   | 4.0   |

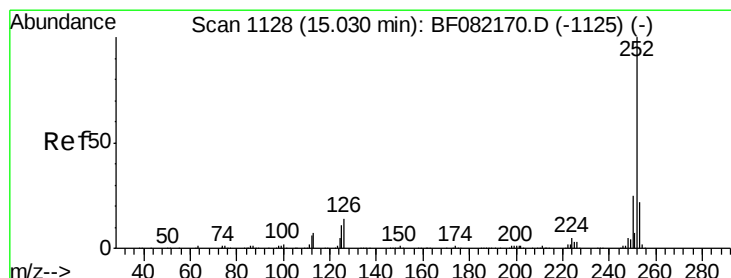
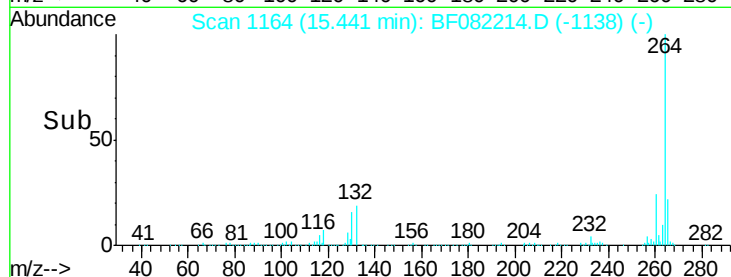
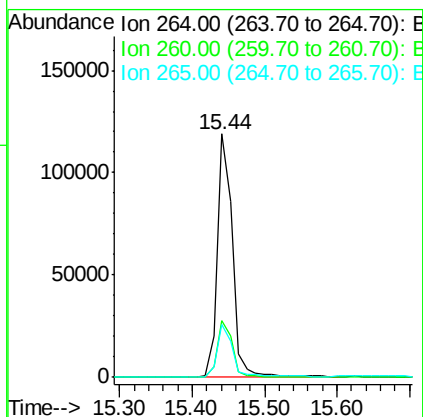
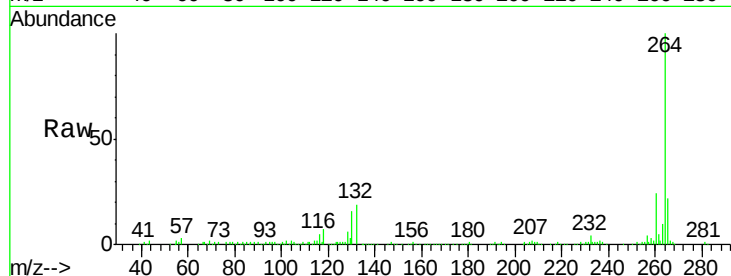




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.44 min Scan# 1164  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

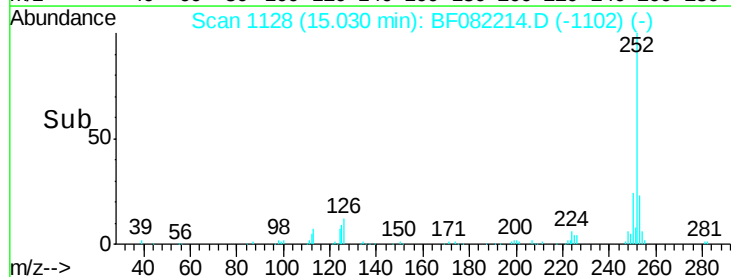
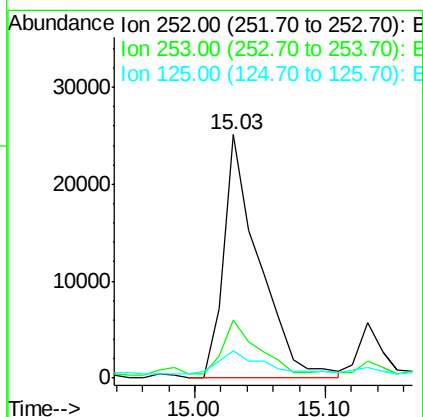
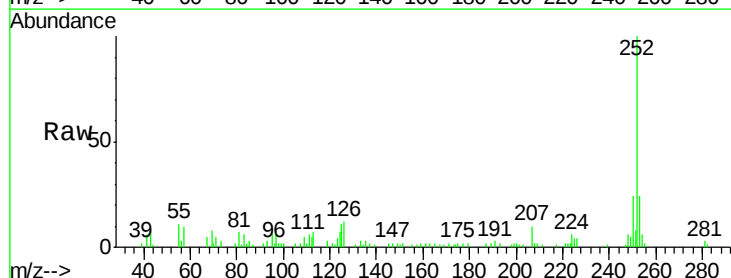
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

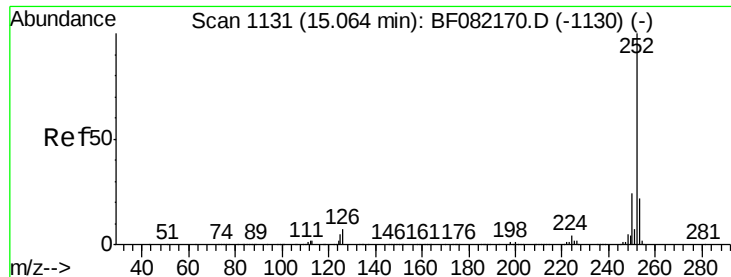
Tot Ion:264 Resp: 172583  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.0 28.6  
265 21.5 17.3 25.9



#87  
Benzo(b)fluoranthene  
Concen: 4.51 ng  
RT: 15.03 min Scan# 1128  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:252 Resp: 47393  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.0 27.0  
125 11.3 8.6 12.8

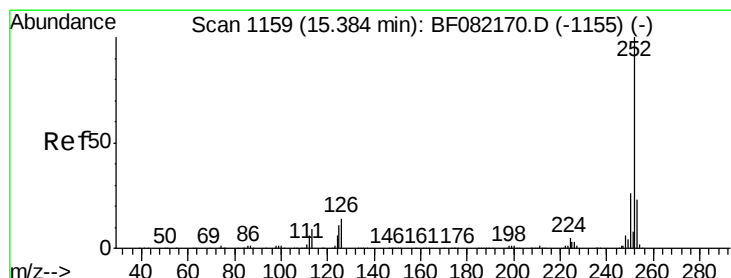
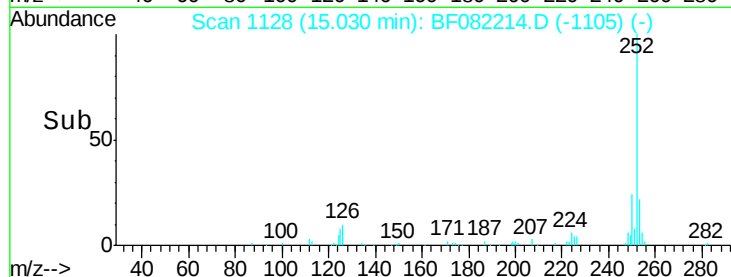
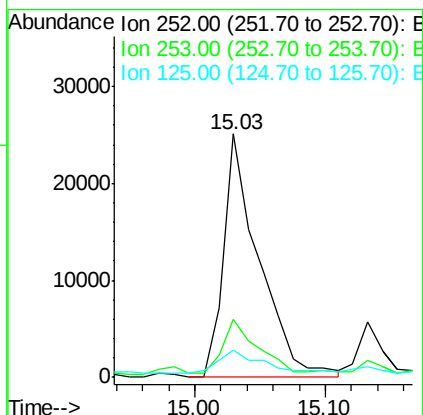
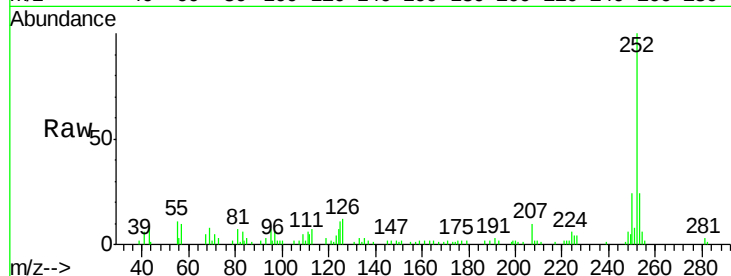




#88  
Benzo(k)fluoranthene  
Concen: 5.37 ng  
RT: 15.03 min Scan# 1128  
Delta R.T. -0.03 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

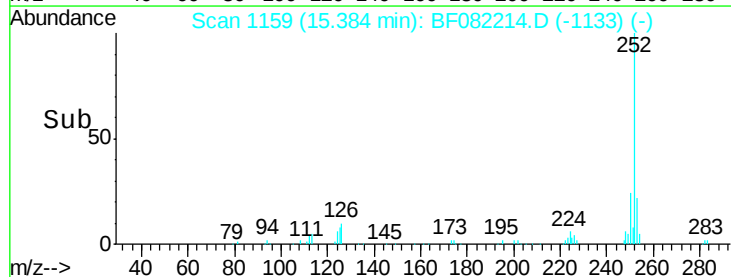
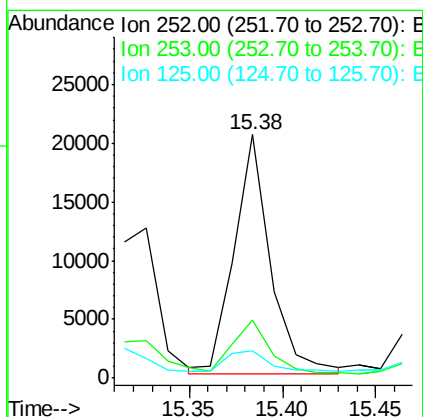
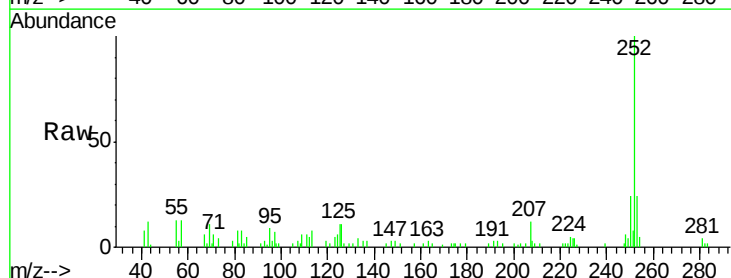
Instrument :  
BNA\_F  
ClientSampleId :  
OS-SB-22(46-48)A

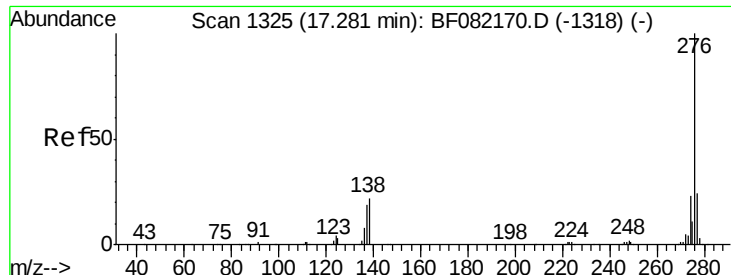
Tot Ion:252 Resp: 47393  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.6  
125 11.3 6.7 10.1#



#89  
Benzo(a)pyrene  
Concen: 3.08 ng  
RT: 15.38 min Scan# 1159  
Delta R.T. 0.00 min  
Lab File: BF082214.D  
Acq: 11 Oct 2015 10:08

Tgt Ion:252 Resp: 27755  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.2 27.2  
125 11.3 8.9 13.3





#91

Benzo(a,h,i)perylene

Concen: 2.19 ng

RT: 17.27 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF082214.D

Acq: 11 Oct 2015 10:08

Instrument :

BNA\_F

ClientSampleId :

OS-SB-22(46-48)A

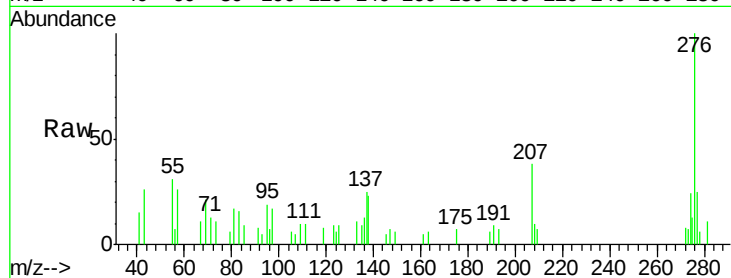
Tot Ion:276 Resp: 15745

Ion Ratio Lower Upper

276 100

277 25.1 18.8 28.2

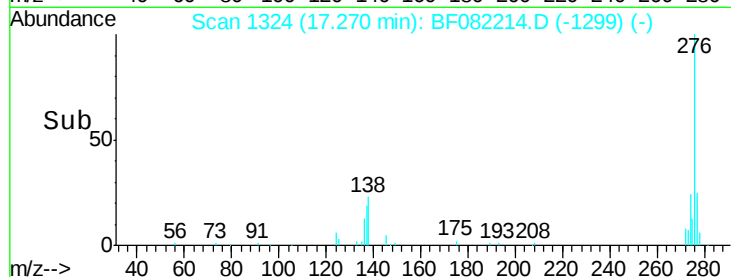
138 23.0 17.4 26.2



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



Time-->