

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090315\  
 Data File : BF081414.D  
 Acq On : 4 Sep 2015 10:59  
 Operator : UM/IZ  
 Sample : G3505-09  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 04 13:04:45 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 01 17:35:35 2015  
 Response via : Initial Calibration

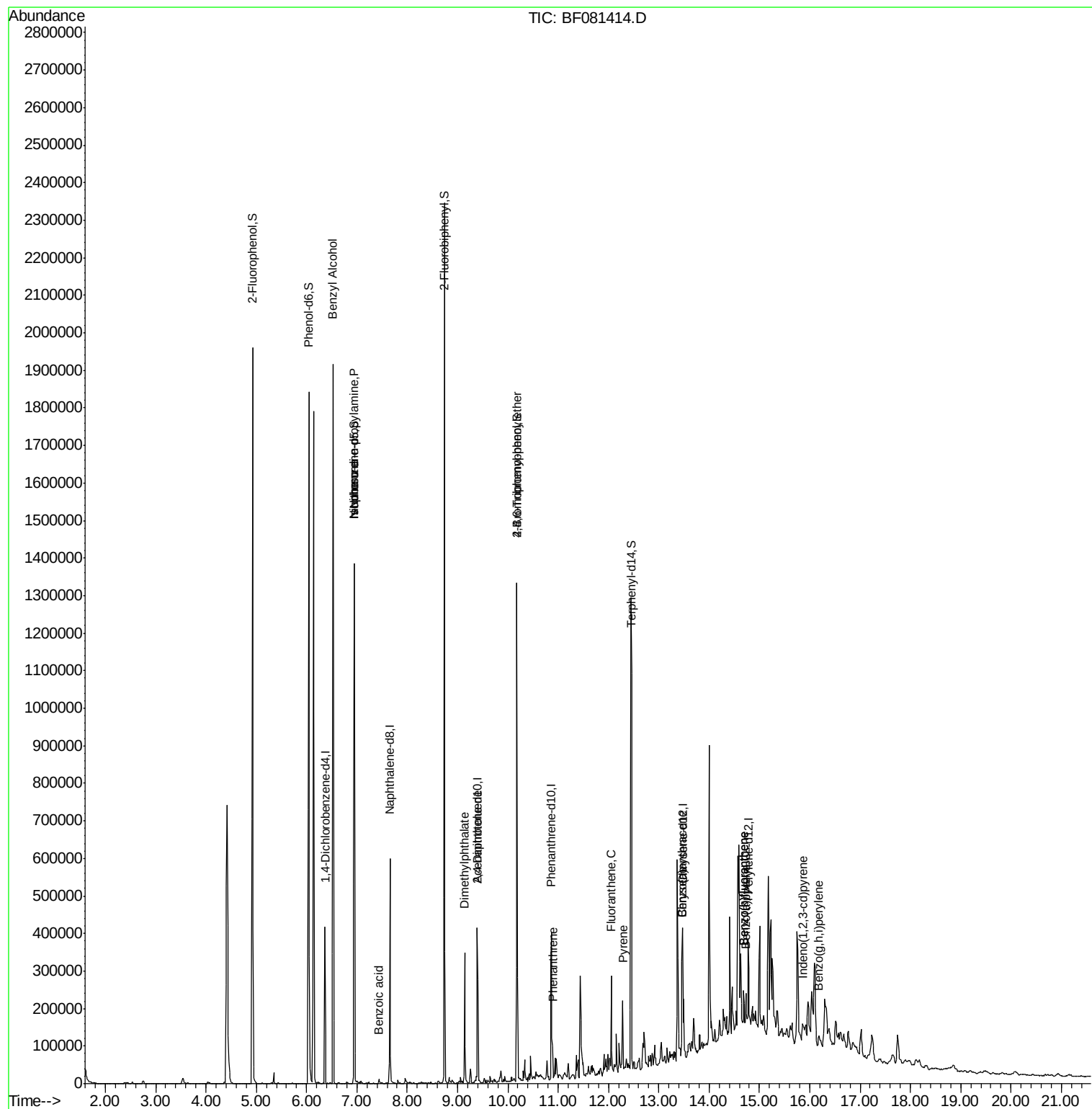
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.36  | 152  | 58919    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.66  | 136  | 233167   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.39  | 164  | 99702    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 10.87 | 188  | 190795   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.47 | 240  | 119106   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 14.78 | 264  | 98345    | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 4.92  | 112  | 544201   | 143.30 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.04  | 99   | 696289   | 138.52 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 6.95  | 82   | 460653   | 95.32  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.18 | 330  | 130818   | 147.36 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 8.74  | 172  | 724282   | 93.09  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.46 | 244  | 557934   | 109.04 | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 6.52  | 79   | 8775     | 2.13   | ng    | # 39     |
| 19) n-Nitroso-di-n-propylamine | 6.95  | 70   | 63218    | 18.48  | ng    | # 62     |
| 25) Isophorone                 | 6.95  | 82   | 333776   | 37.13  | ng    | # 58     |
| 32) Benzoic acid               | 7.44  | 122  | 344      | 2.66   | ng    | # 71     |
| 49) Dimethylphthalate          | 9.14  | 163  | 128932   | 16.64  | ng    | # 97     |
| 56) 2,4-Dinitrotoluene         | 9.39  | 165  | 12546    | 5.60   | ng    | # 34     |
| 66) 4-Bromophenyl-phenylether  | 10.18 | 248  | 8967     | 4.65   | ng    | # 1      |
| 70) Phenanthrene               | 10.89 | 178  | 54092    | 5.10   | ng    | 97       |
| 74) Fluoranthene               | 12.06 | 202  | 102752   | 8.95   | ng    | 90       |
| 77) Pyrene                     | 12.29 | 202  | 105100   | 11.91  | ng    | 99       |
| 80) Benzo(a)anthracene         | 13.46 | 228  | 41805    | 5.51   | ng    | # 89     |
| 82) Chrysene                   | 13.46 | 228  | 41805    | 6.15   | ng    | # 91     |
| 85) Indeno(1,2,3-cd)pyrene     | 15.86 | 276  | 21569    | 4.32   | ng    | # 78     |
| 87) Benzo(b)fluoranthene       | 14.69 | 252  | 26518    | 3.78   | ng    | 93       |
| 88) Benzo(k)fluoranthene       | 14.69 | 252  | 26518    | 4.55   | ng    | 94       |
| 89) Benzo(a)pyrene             | 14.73 | 252  | 34826    | 5.85   | ng    | # 89     |
| 91) Benzo(a,h,i)perylene       | 16.18 | 276  | 18925    | 4.31   | ng    | # 81     |

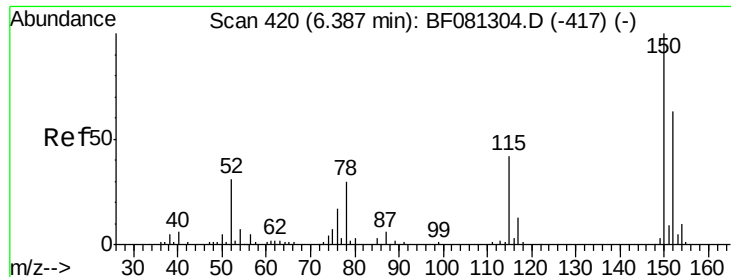
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF090315\  
Data File : BF081414.D  
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Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 04 13:04:45 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 01 17:35:35 2015  
Response via : Initial Calibration



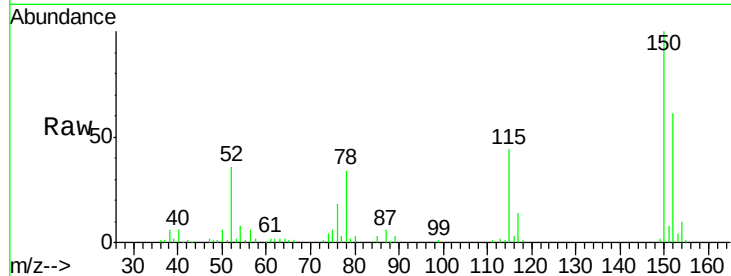


#1

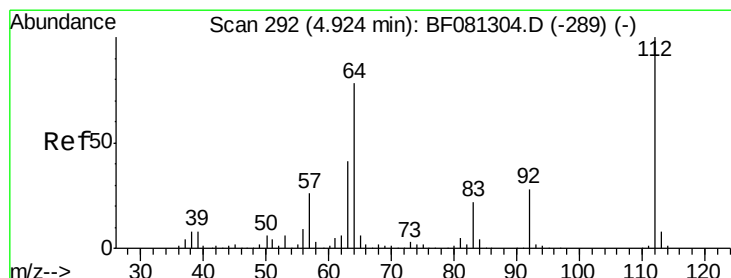
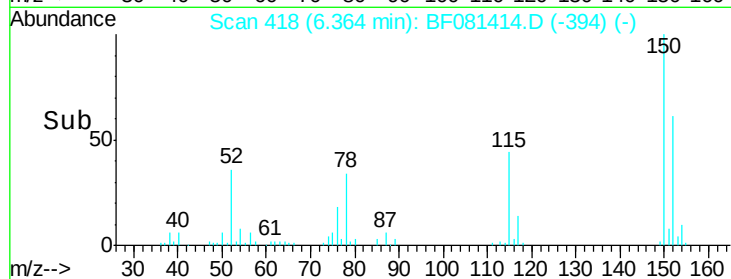
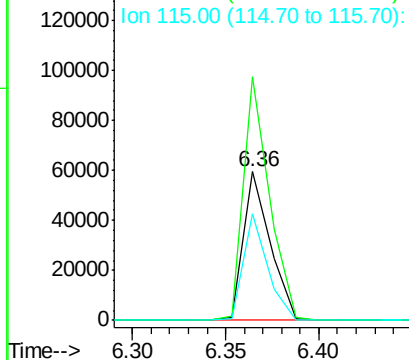
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.36 min Scan# 418  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 58919  
Ion Ratio Lower Upper  
152 100  
150 164.1 124.7 187.1  
115 71.9 39.0 58.4#



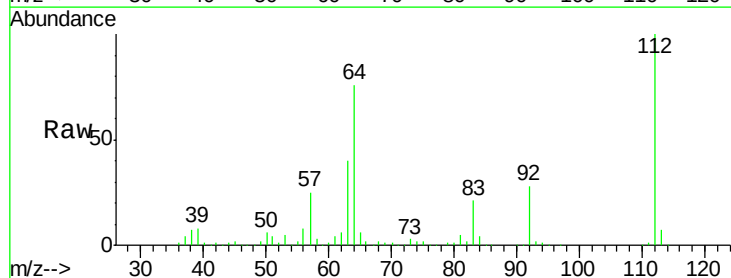
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



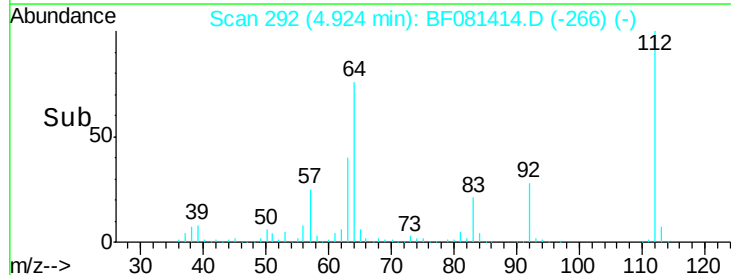
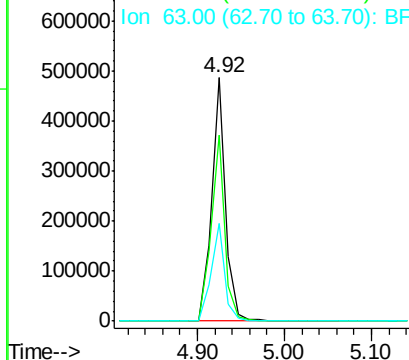
#5

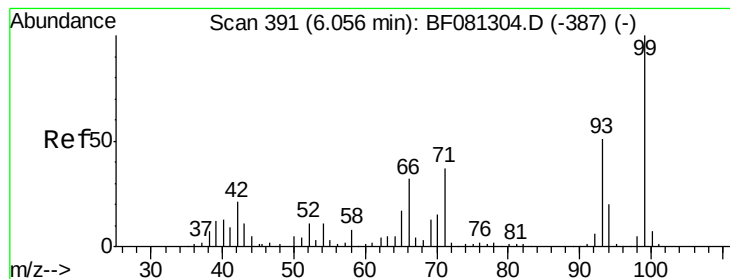
2-Fluorophenol  
Concen: 143.30 ng  
RT: 4.92 min Scan# 292  
Delta R.T. 0.00 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion:112 Resp: 544201  
Ion Ratio Lower Upper  
112 100  
64 76.3 39.7 59.5#  
63 40.1 17.4 26.0#



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: 138.52 ng

RT: 6.04 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Instrument :

BNA\_F

ClientSampleId :

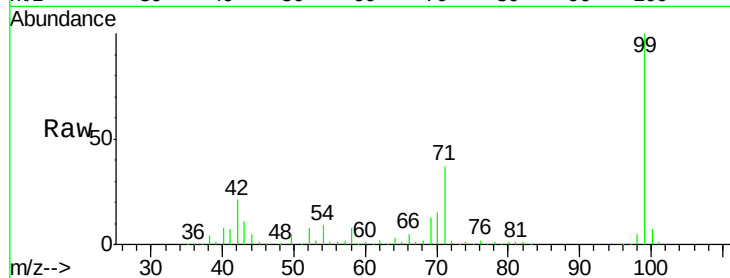
Tot Ion: 99 Resp: 696289

Ion Ratio Lower Upper

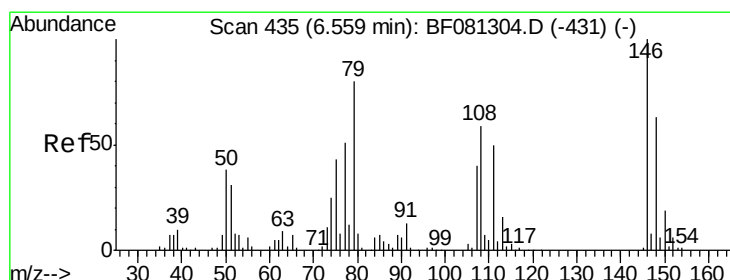
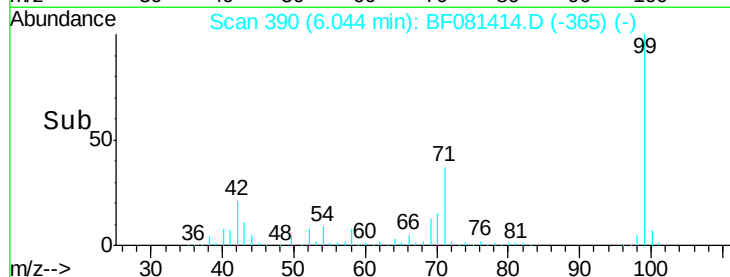
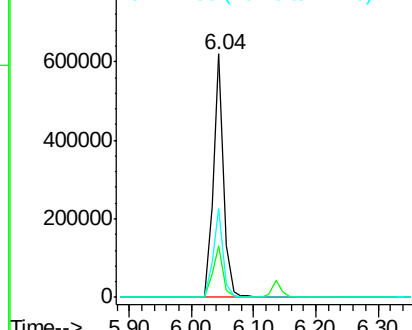
99 100

42 21.4 13.7 20.5#

71 36.5 14.2 21.2#



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: 2.13 ng

RT: 6.52 min Scan# 432

Delta R.T. -0.03 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

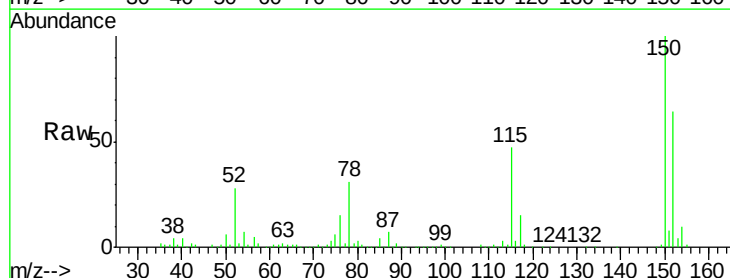
Tgt Ion: 79 Resp: 8775

Ion Ratio Lower Upper

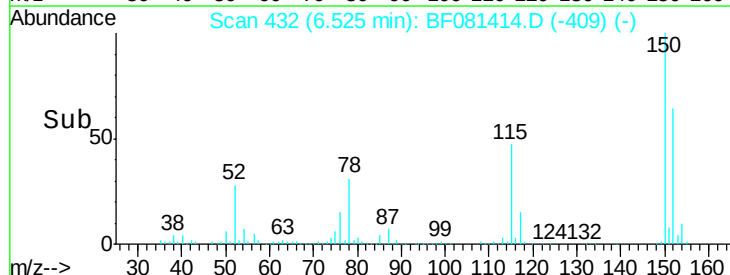
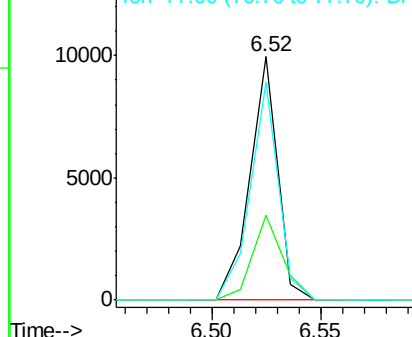
79 100

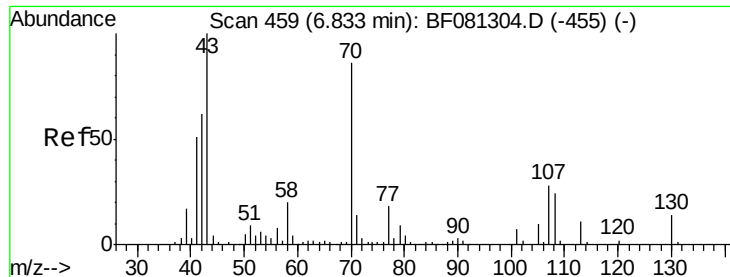
108 34.9 88.6 132.8#

77 89.4 47.0 70.4#



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

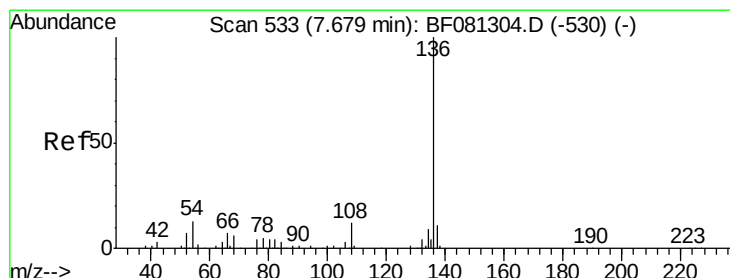
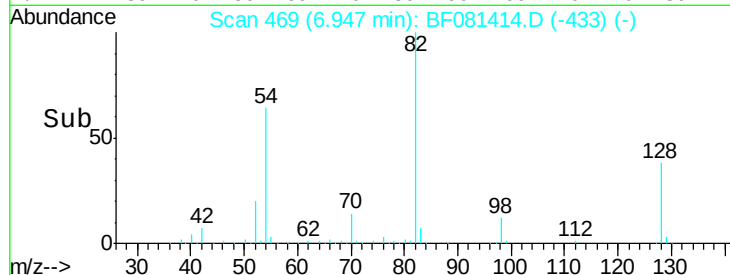
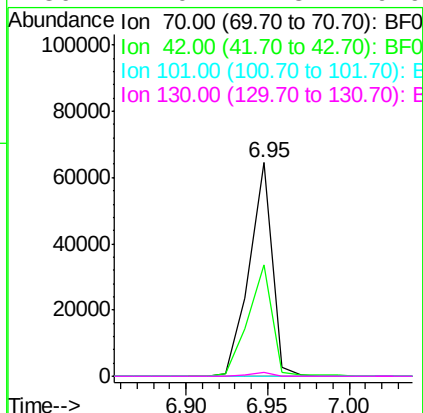
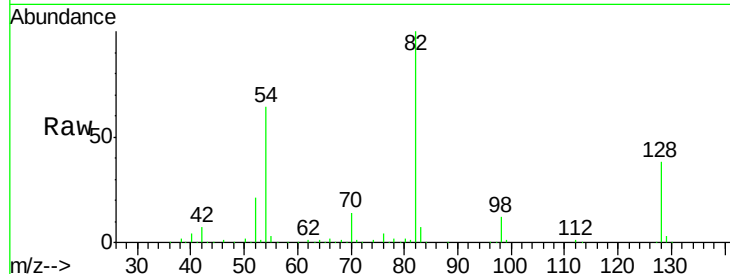




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.48 ng  
RT: 6.95 min Scan# 469  
Delta R.T. 0.11 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

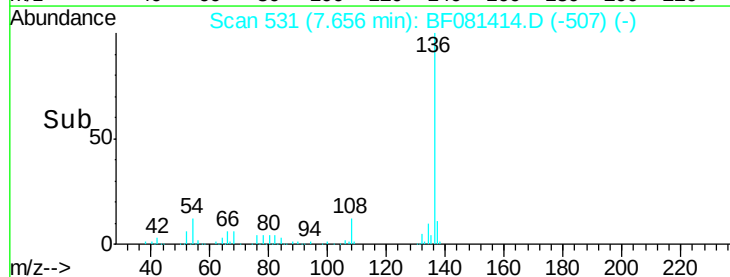
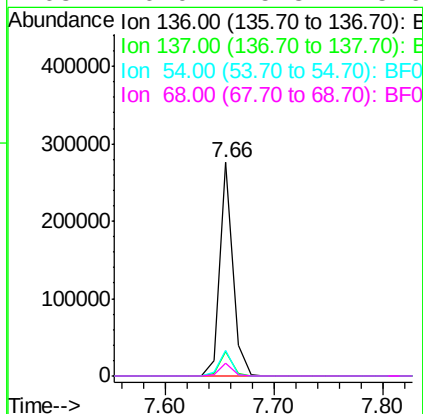
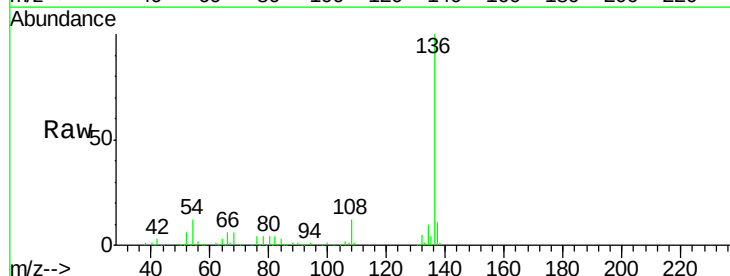
Instrument :  
BNA\_F  
ClientSampleId :

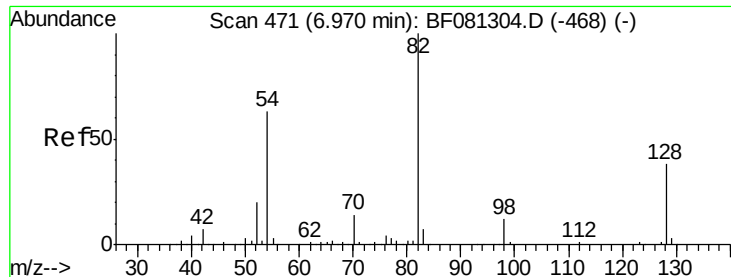
Tot Ion: 70 Resp: 63218  
Ion Ratio Lower Upper  
70 100  
42 52.3 63.8 95.6#  
101 0.0 9.2 13.8#  
130 2.0 27.3 40.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.66 min Scan# 531  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion: 136 Resp: 233167  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.0 13.6  
54 11.8 8.2 12.2  
68 6.0 5.8 8.6

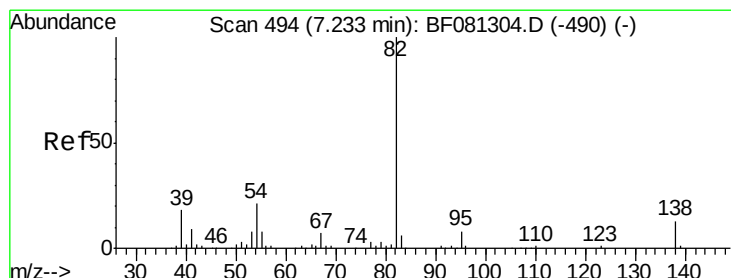
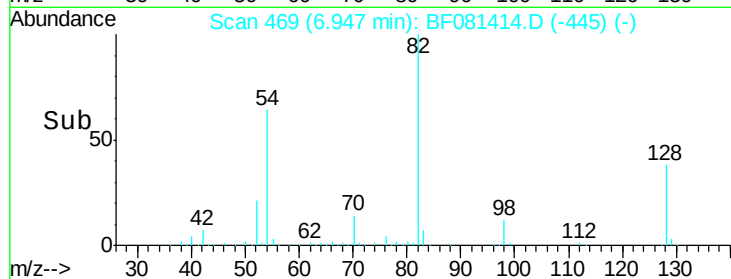
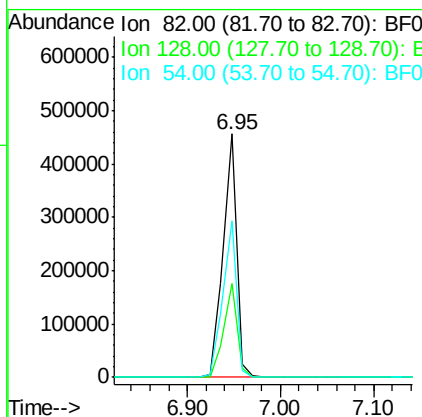
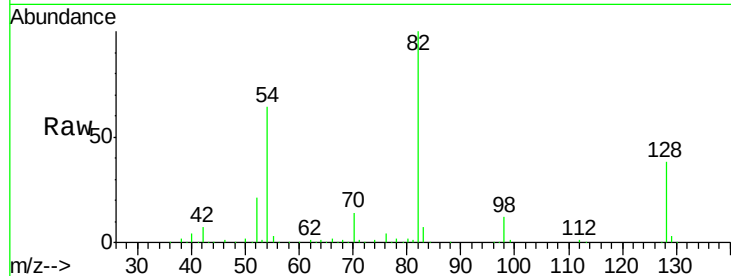




#23  
Nitrobenzene-d5  
Concen: 95.32 ng  
RT: 6.95 min Scan# 469  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

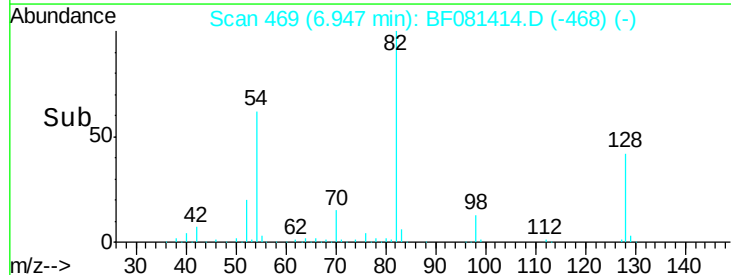
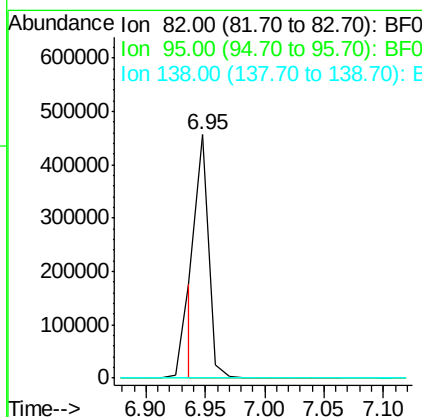
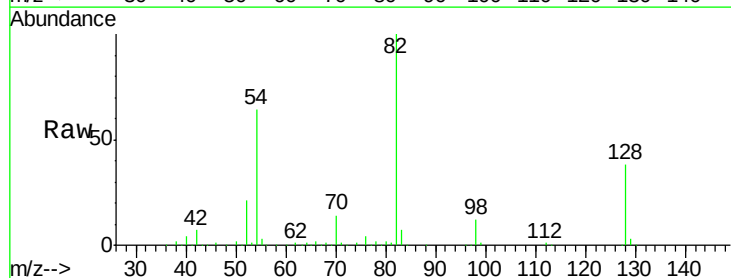
Instrument :  
BNA\_F  
ClientSampleId :

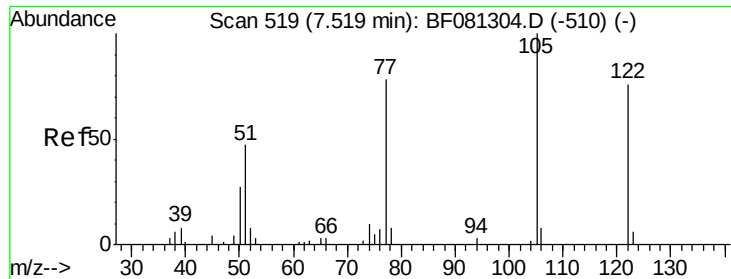
Tot Ion: 82 Resp: 460653  
Ion Ratio Lower Upper  
82 100  
128 38.4 51.0 76.6#  
54 64.4 47.5 71.3



#25  
Isophorone  
Concen: 37.13 ng  
RT: 6.95 min Scan# 469  
Delta R.T. -0.29 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion: 82 Resp: 333776  
Ion Ratio Lower Upper  
82 100  
95 0.0 4.0 6.0#  
138 0.0 18.3 27.5#

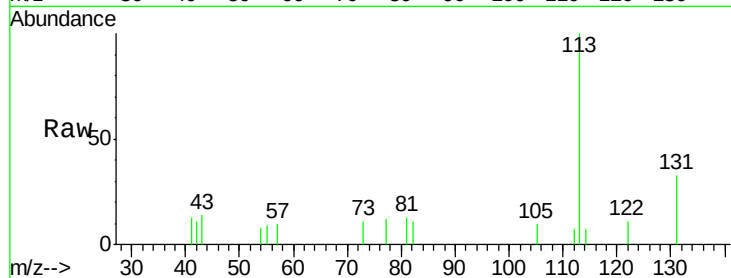




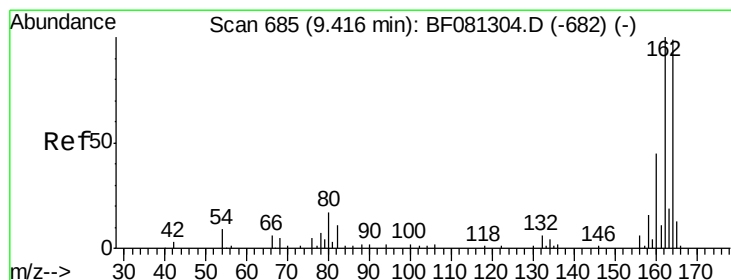
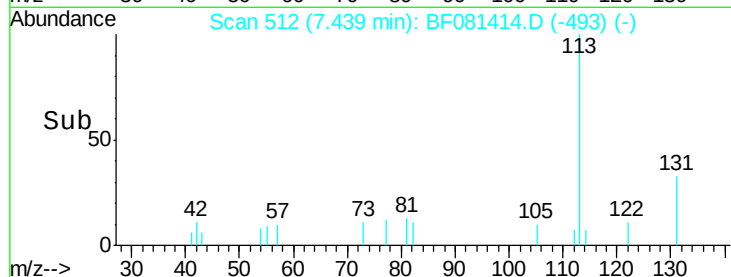
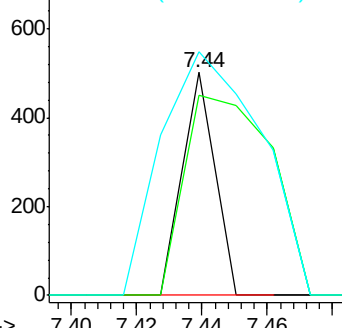
#32  
Benzoic acid  
Concen: 2.66 ng  
RT: 7.44 min Scan# 512  
Delta R.T. -0.08 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:122 Resp: 344  
Ion Ratio Lower Upper  
122 100  
105 89.6 76.1 116.1  
77 109.4 40.5 80.5#

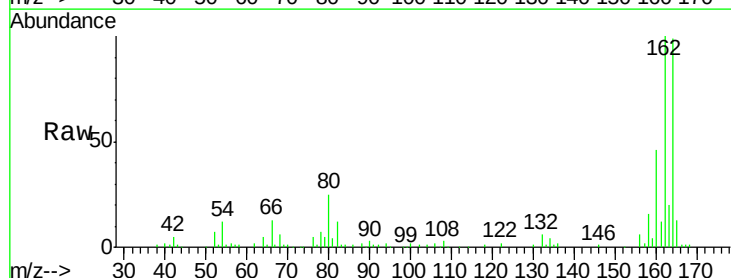


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0

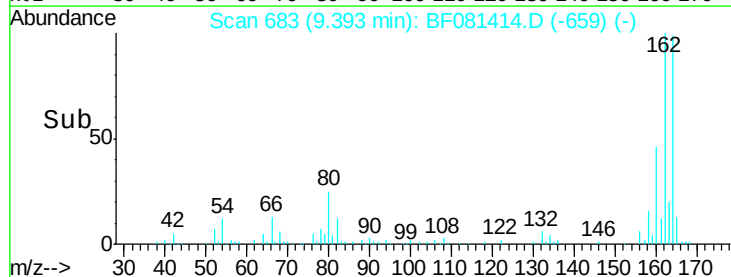
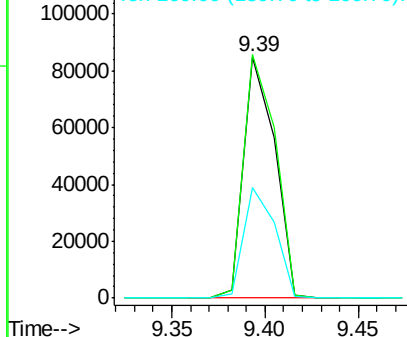


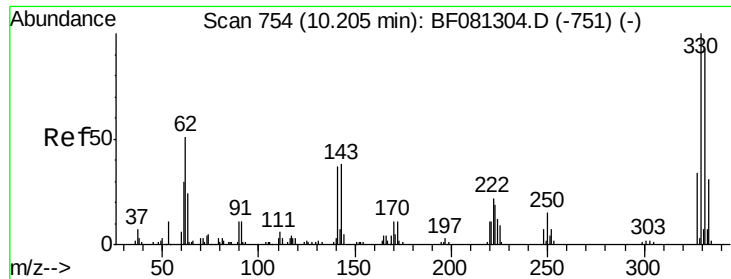
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.39 min Scan# 683  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion:164 Resp: 99702  
Ion Ratio Lower Upper  
164 100  
162 100.8 75.2 112.8  
160 46.0 31.5 47.3



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

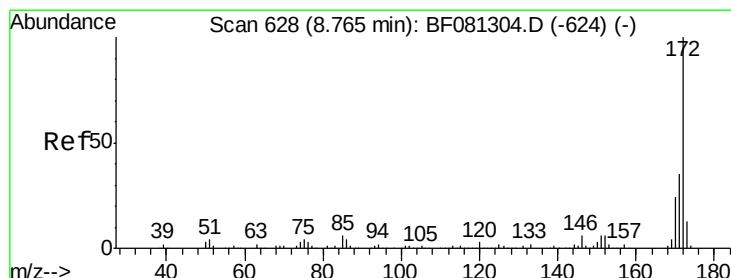
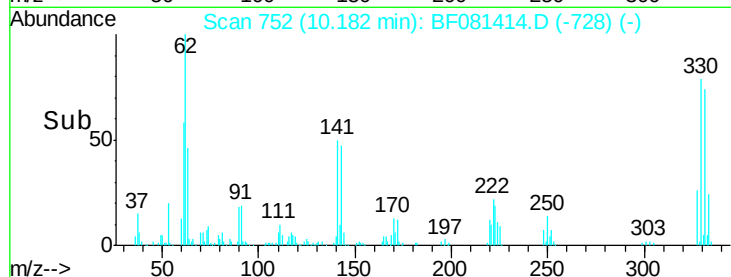
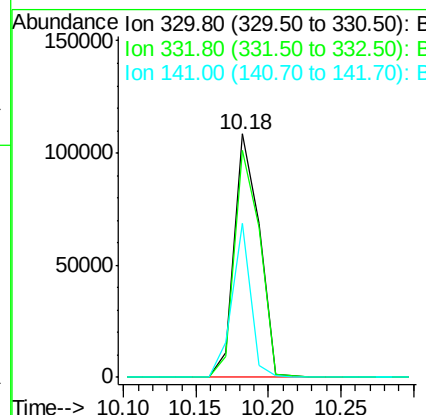
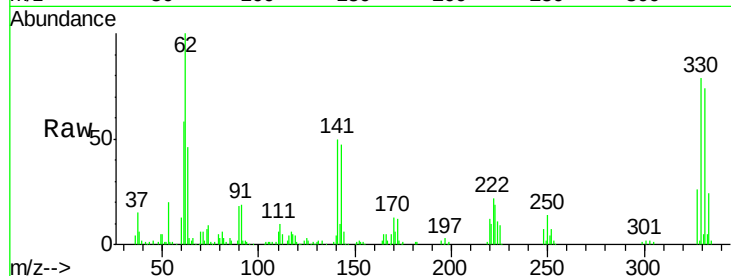




#41  
 2,4,6-Tribromophenol  
 Concen: 147.36 ng  
 RT: 10.18 min Scan# 752  
 Delta R.T. -0.02 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

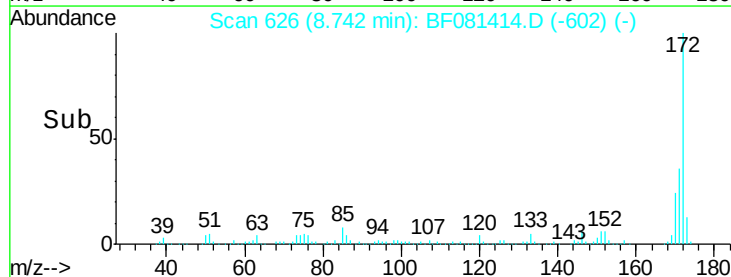
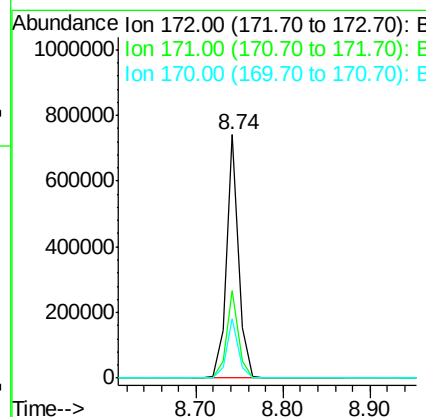
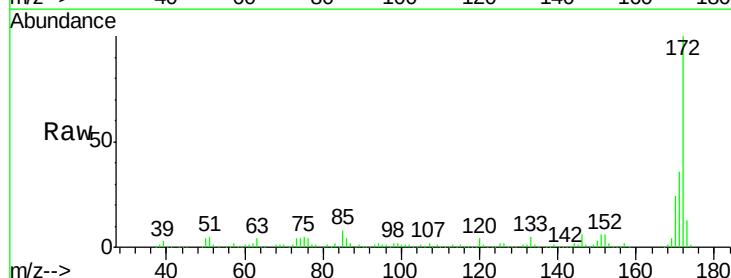
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.3  | 76.6  | 114.8 |
| 141     | 47.6  | 29.7  | 44.5  |

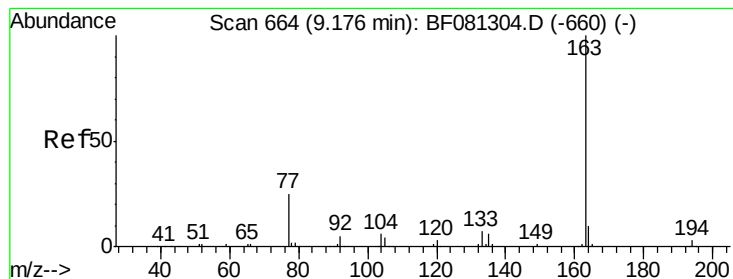


#44  
 2-Fluorobiphenyl  
 Concen: 93.09 ng  
 RT: 8.74 min Scan# 626  
 Delta R.T. -0.02 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 26.1  | 39.1  |
| 170     | 24.3  | 17.4  | 26.2  |







#49

Dimethylphthalate

Concen: 16.64 ng

RT: 9.14 min Scan# 661

Delta R.T. -0.03 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Instrument :

BNA\_F

ClientSampleId :

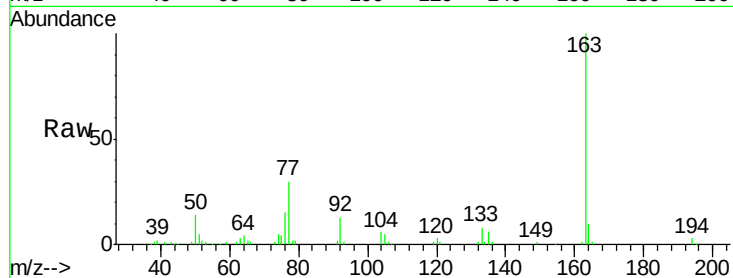
Tot Ion:163 Resp: 128932

Ion Ratio Lower Upper

163 100

194 2.9 4.4 6.6#

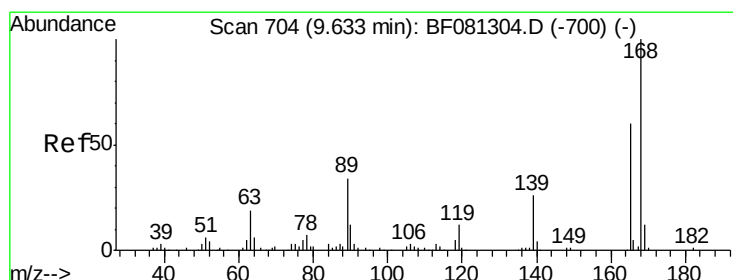
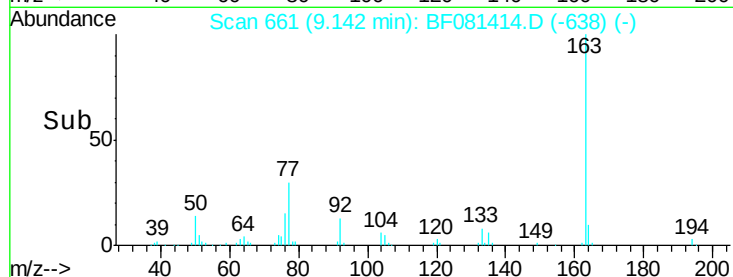
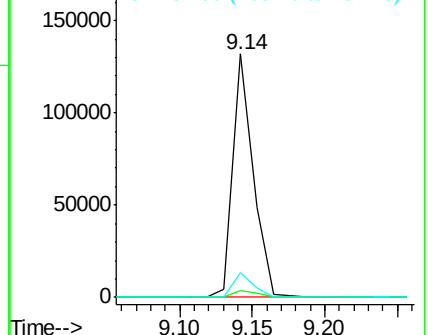
164 10.3 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#56

2,4-Dinitrotoluene

Concen: 5.60 ng

RT: 9.39 min Scan# 683

Delta R.T. -0.24 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Tgt Ion:165 Resp: 12546

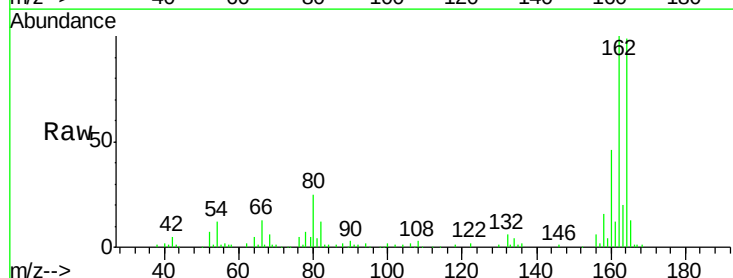
Ion Ratio Lower Upper

165 100

63 0.0 29.8 44.6#

89 2.7 44.5 66.7#

182 0.0 3.0 4.4#

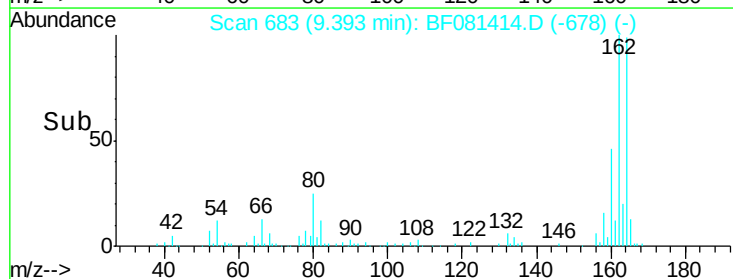
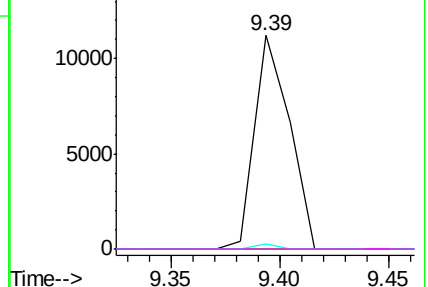


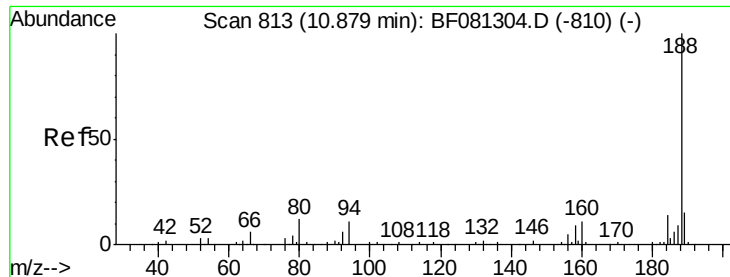
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

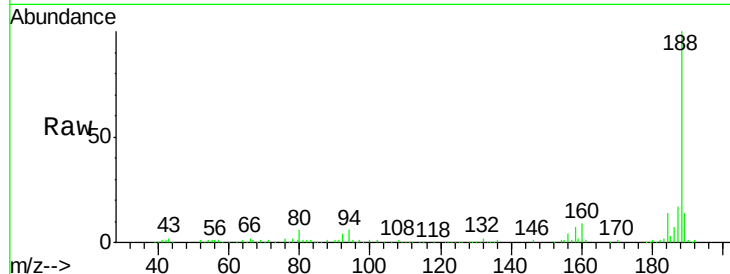




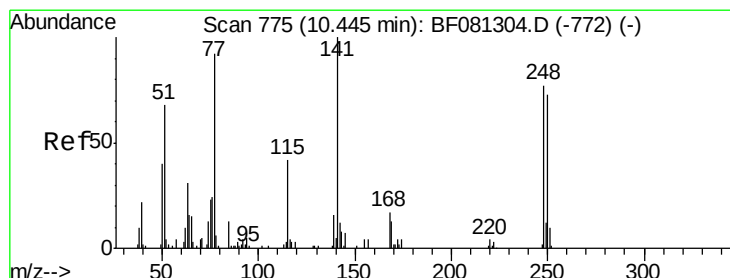
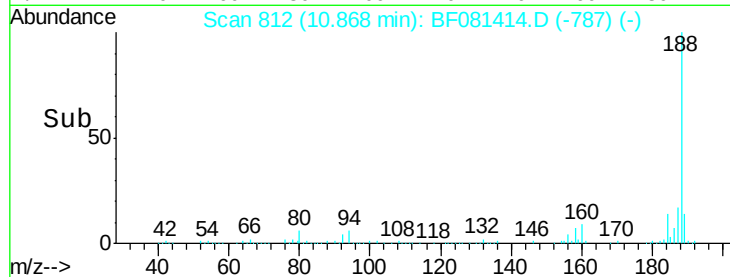
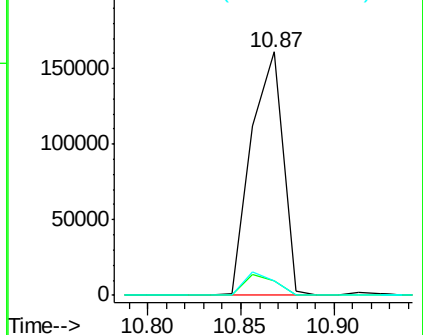
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.87 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:188 Resp: 190795  
 Ion Ratio Lower Upper  
 188 100  
 94 5.7 11.1 16.7#  
 80 6.1 11.0 16.4#

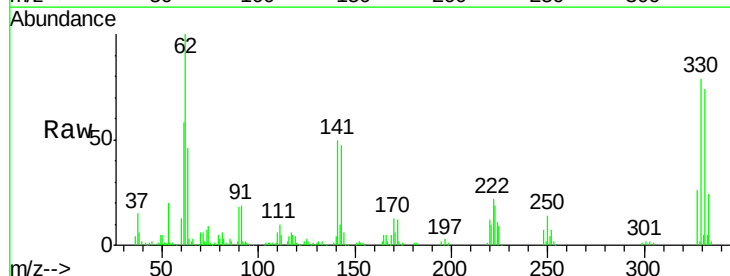


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

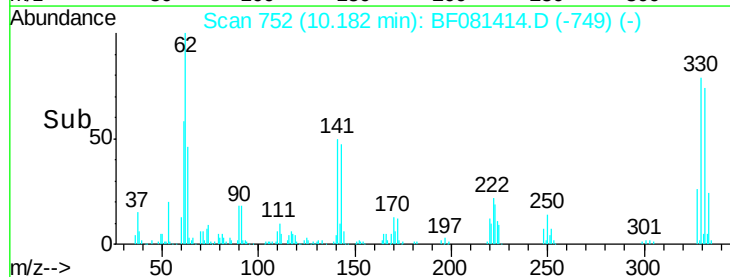
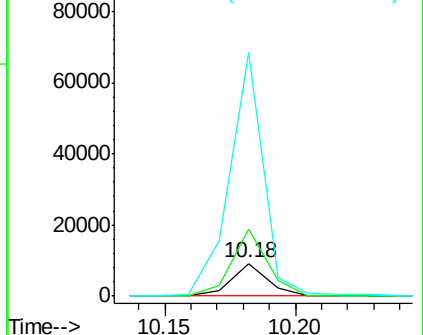


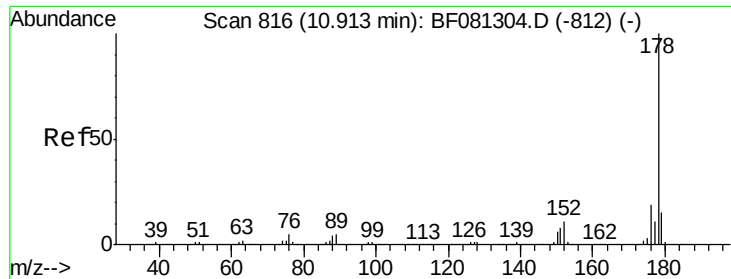
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.65 ng  
 RT: 10.18 min Scan# 752  
 Delta R.T. -0.26 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

Tgt Ion:248 Resp: 8967  
 Ion Ratio Lower Upper  
 248 100  
 250 203.6 78.5 117.7#  
 141 742.0 59.0 88.6#



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

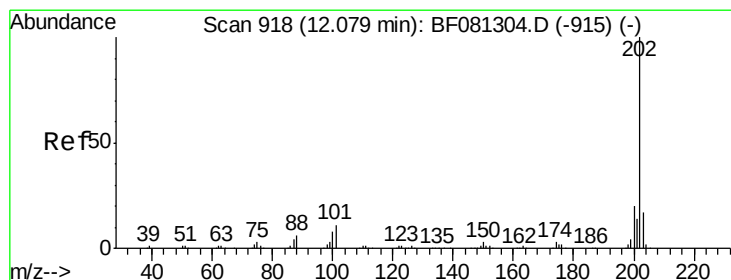
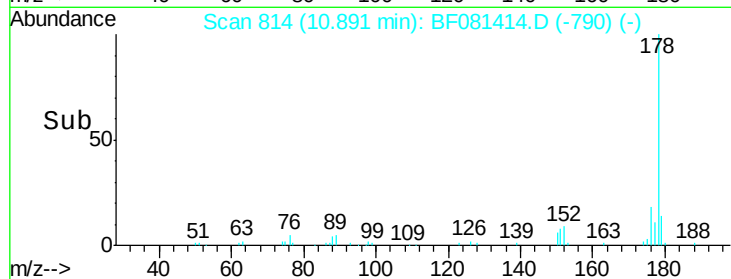
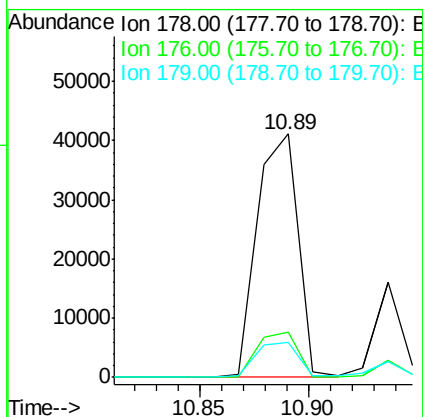
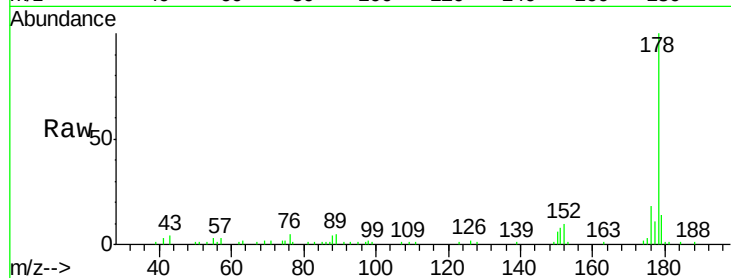




#70  
 Phenanthrene  
 Concen: 5.10 ng  
 RT: 10.89 min Scan# 814  
 Delta R.T. -0.02 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

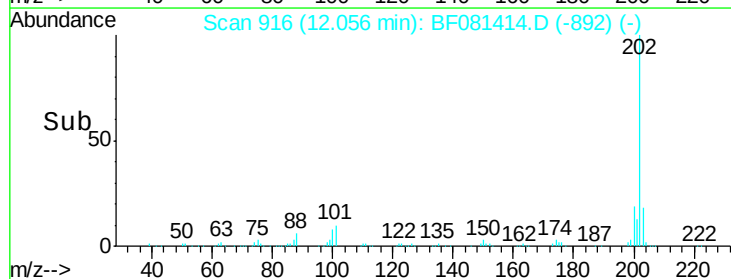
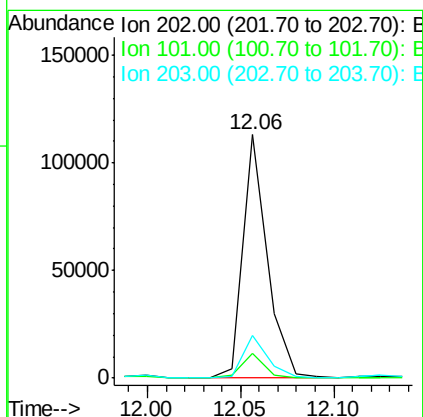
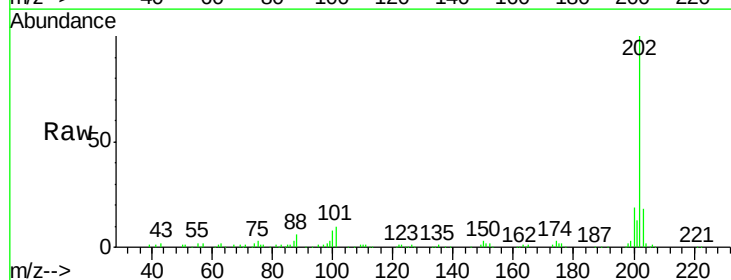
Instrument :  
 BNA\_F  
 ClientSampleId :

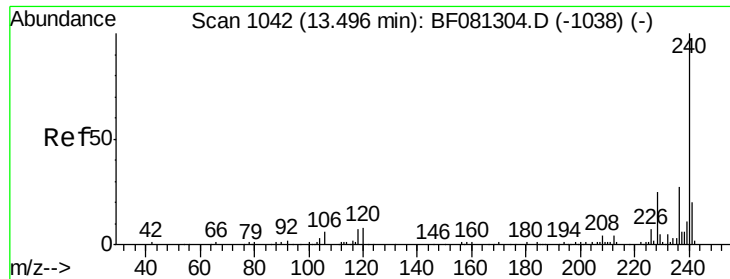
Tot Ion:178 Resp: 54092  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 13.8 20.8  
 179 14.1 12.2 18.2



#74  
 Fluoranthene  
 Concen: 8.95 ng  
 RT: 12.06 min Scan# 916  
 Delta R.T. -0.02 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

Tgt Ion:202 Resp: 102752  
 Ion Ratio Lower Upper  
 202 100  
 101 10.3 0.0 38.3  
 203 17.6 0.0 37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.47 min Scan# 1040

Delta R.T. -0.02 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Instrument :

BNA\_F

ClientSampleId :

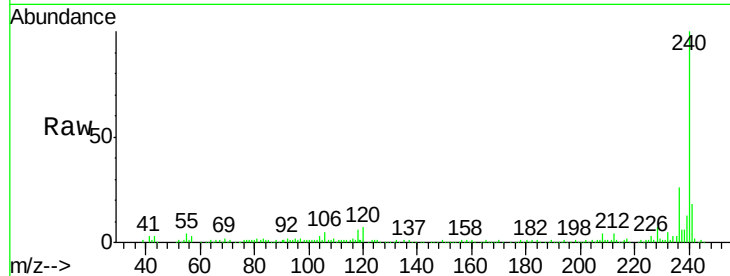
Tot Ion:240 Resp: 119106

Ion Ratio Lower Upper

240 100

120 6.9 16.2 24.2#

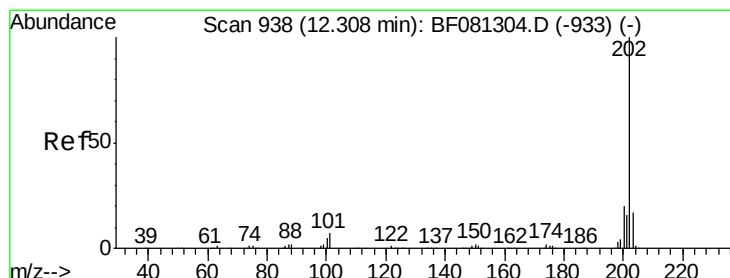
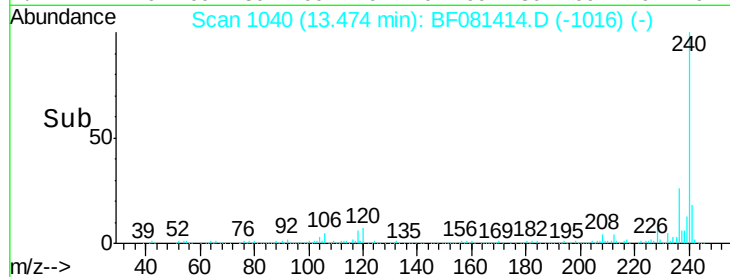
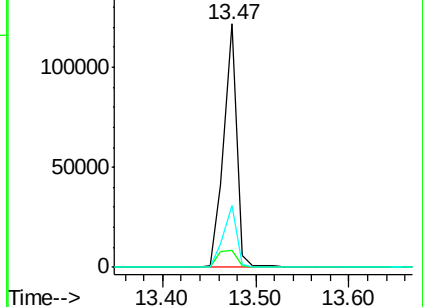
236 25.6 18.4 27.6



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: 11.91 ng

RT: 12.29 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

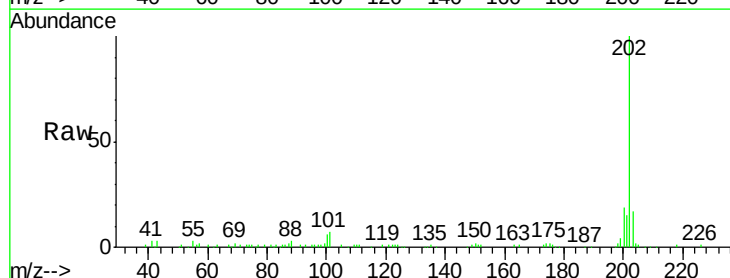
Tgt Ion:202 Resp: 105100

Ion Ratio Lower Upper

202 100

200 18.9 15.0 22.4

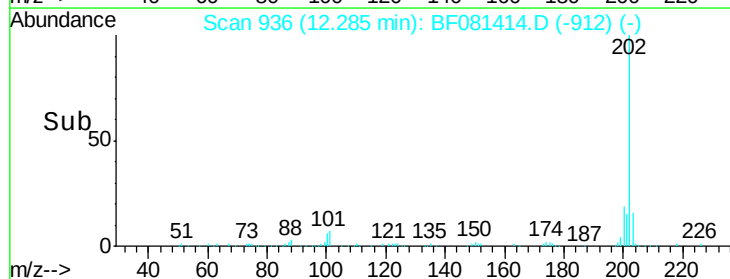
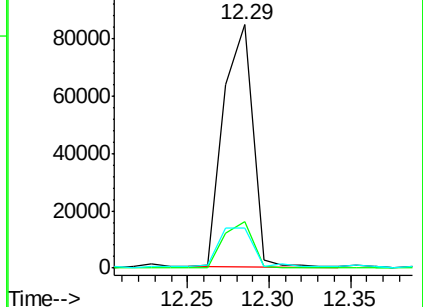
203 16.7 14.1 21.1

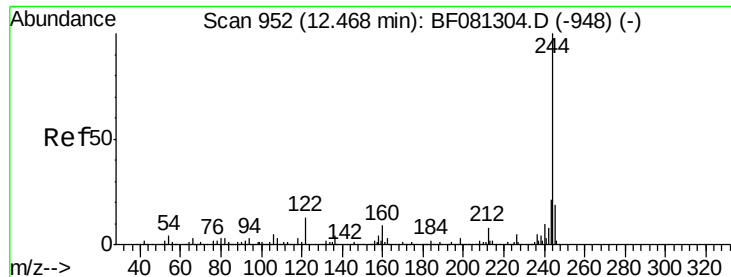


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 109.04 ng

RT: 12.46 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Instrument :

BNA\_F

ClientSampleId :

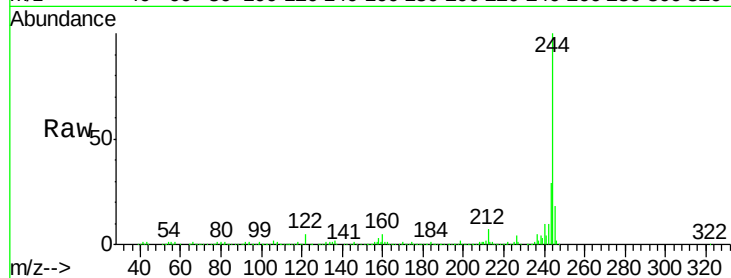
Tot Ion:244 Resp: 557934

Ion Ratio Lower Upper

244 100

212 6.8 4.3 6.5#

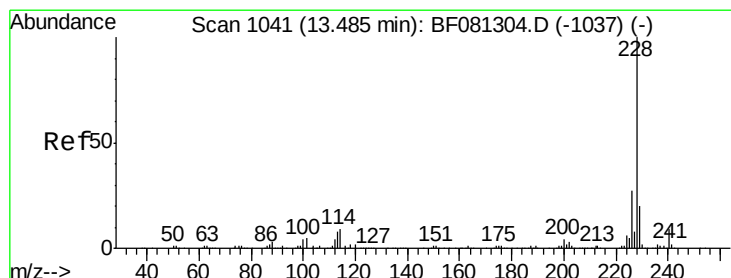
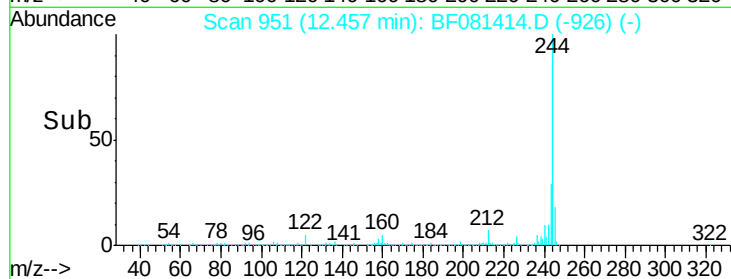
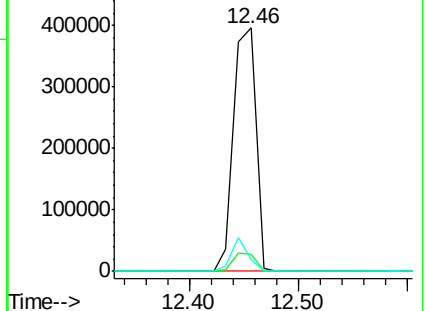
122 5.0 17.4 26.2#



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: 5.51 ng

RT: 13.46 min Scan# 1039

Delta R.T. -0.02 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

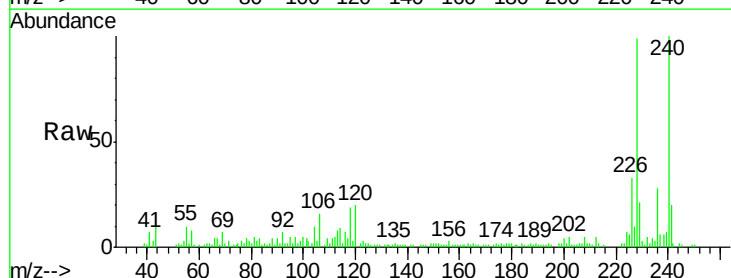
Tgt Ion:228 Resp: 41805

Ion Ratio Lower Upper

228 100

226 32.9 20.0 30.0#

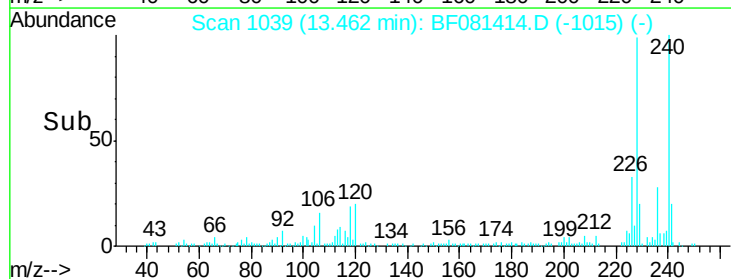
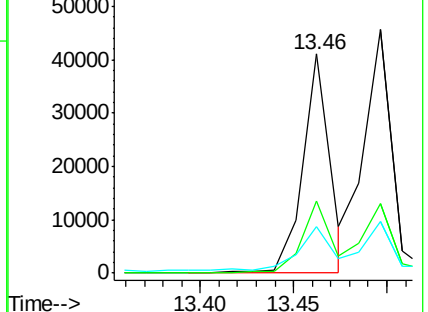
229 21.3 15.4 23.2

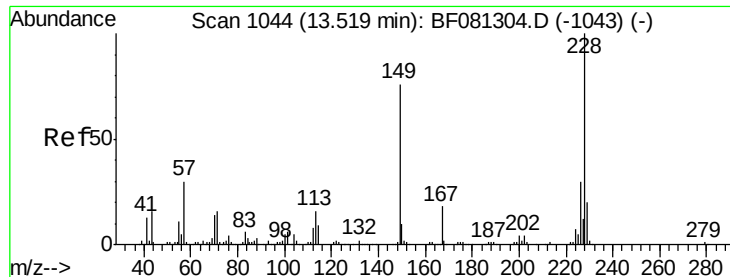


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

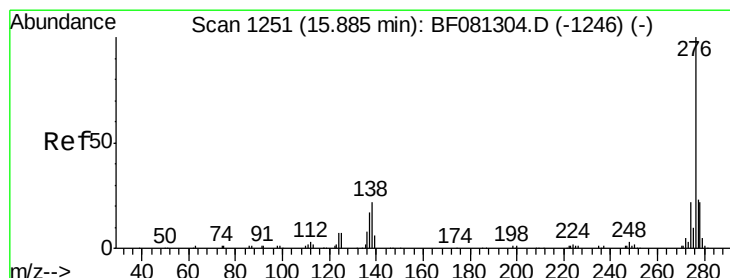
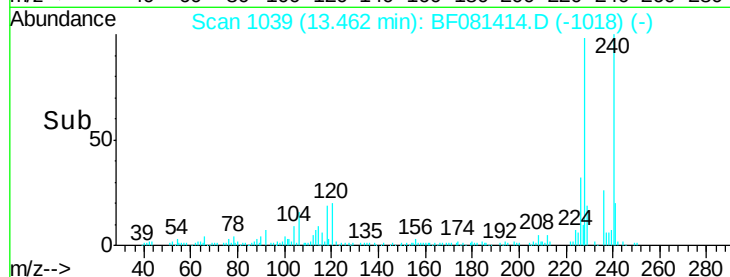
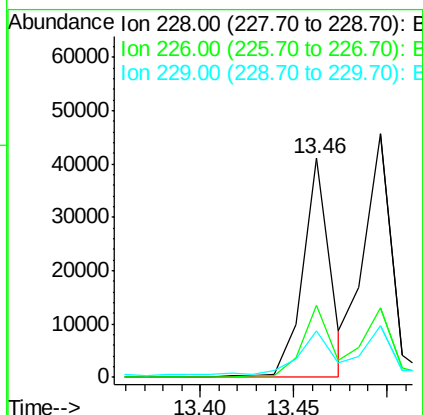
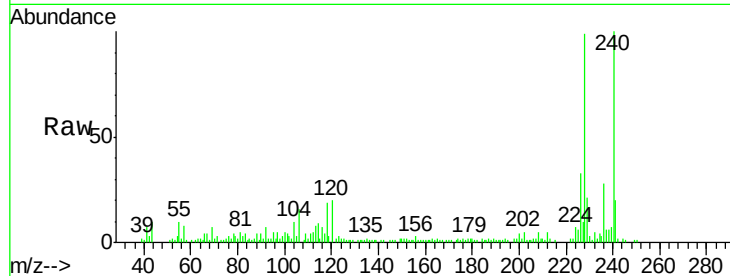




#82  
 Chrysene  
 Concen: 6.15 ng  
 RT: 13.46 min Scan# 1039  
 Delta R.T. -0.06 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

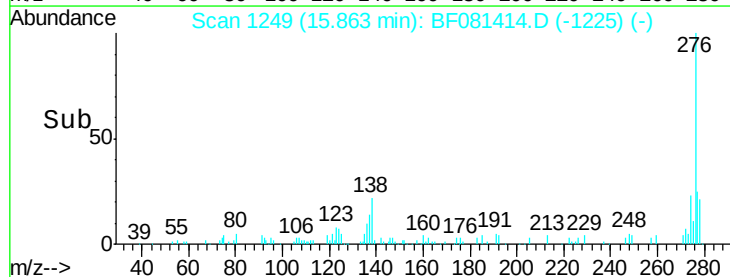
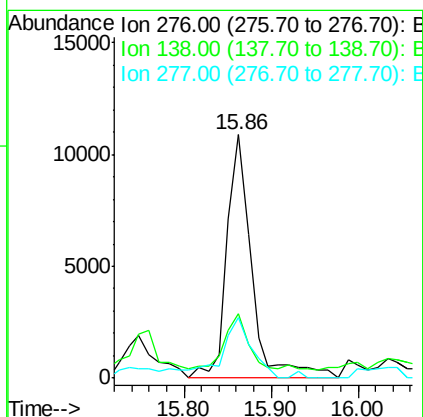
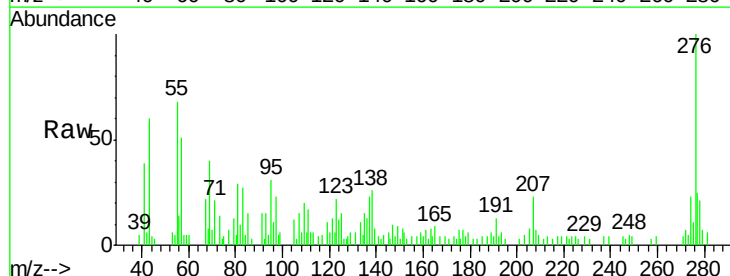
Instrument :  
 BNA\_F  
 ClientSampleId :

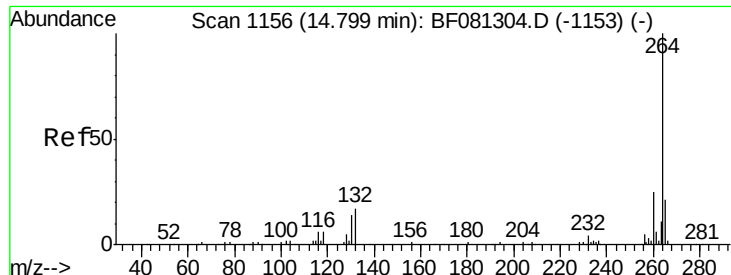
Tot Ion: 228 Resp: 41805  
 Ion Ratio Lower Upper  
 228 100  
 226 32.9 21.0 31.4#  
 229 21.3 15.6 23.4



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.32 ng  
 RT: 15.86 min Scan# 1249  
 Delta R.T. -0.02 min  
 Lab File: BF081414.D  
 Acq: 4 Sep 2015 10:59

Tgt Ion: 276 Resp: 21569  
 Ion Ratio Lower Upper  
 276 100  
 138 20.3 25.7 38.5#  
 277 30.2 15.6 23.4#

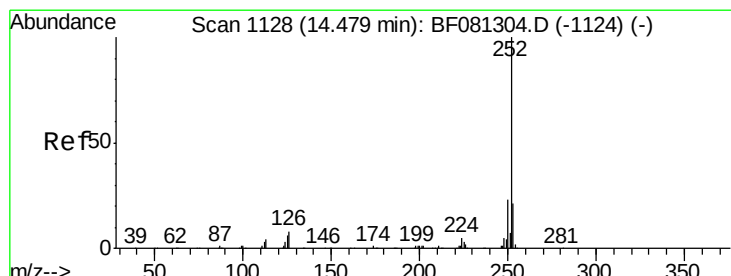
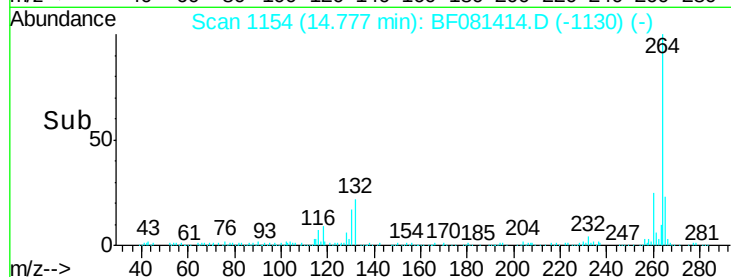
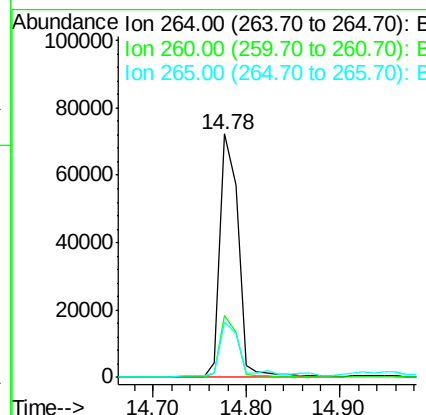
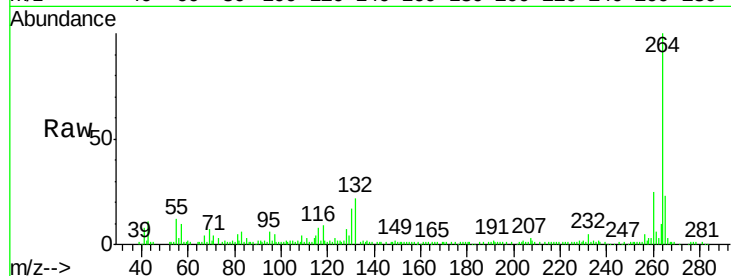




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.78 min Scan# 1154  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

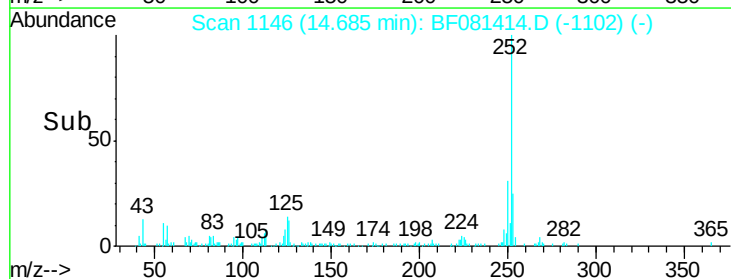
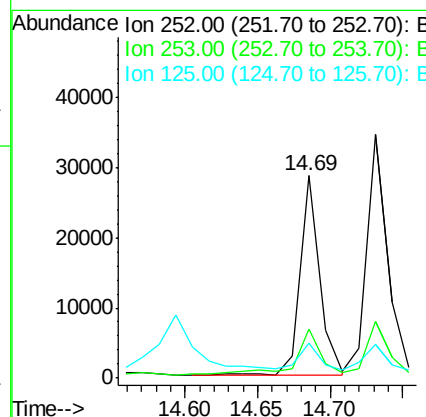
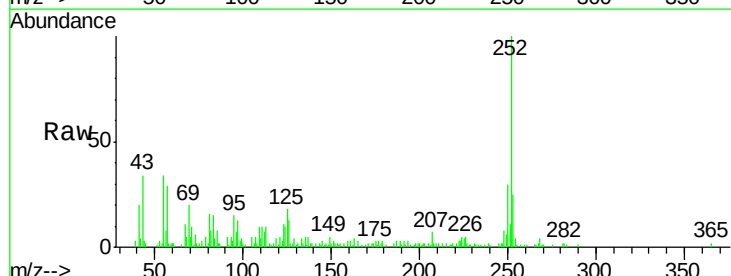
Instrument :  
BNA\_F  
ClientSampleId :

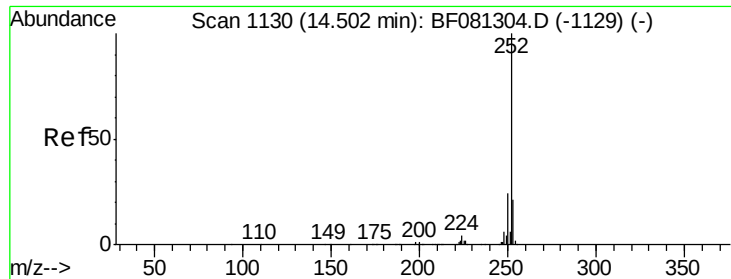
Tot Ion:264 Resp: 98345  
Ion Ratio Lower Upper  
264 100  
260 25.3 16.7 25.1#  
265 22.6 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 3.78 ng  
RT: 14.69 min Scan# 1146  
Delta R.T. 0.21 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion:252 Resp: 26518  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.5 26.3  
125 17.5 17.1 25.7

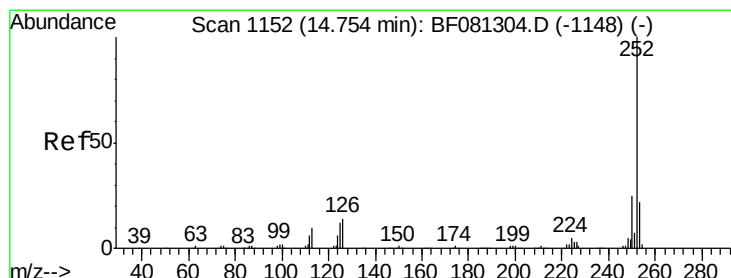
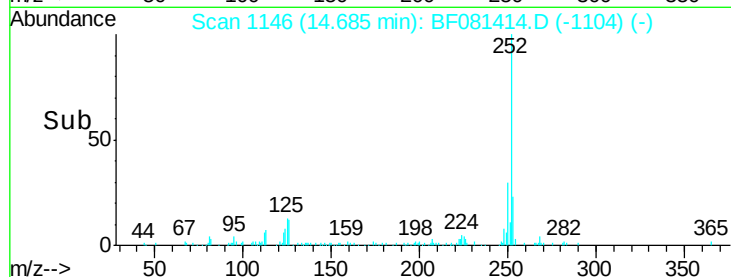
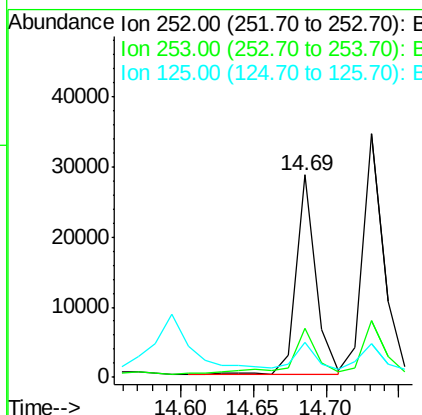
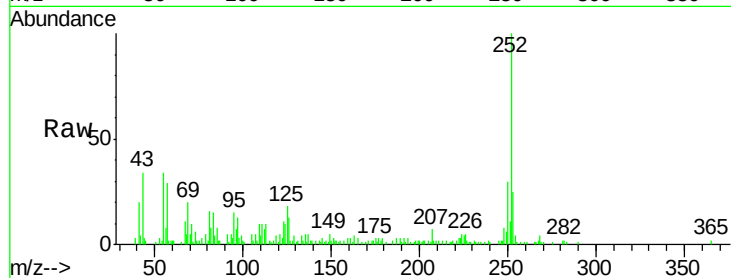




#88  
Benzo(k)fluoranthene  
Concen: 4.55 ng  
RT: 14.69 min Scan# 1146  
Delta R.T. 0.18 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

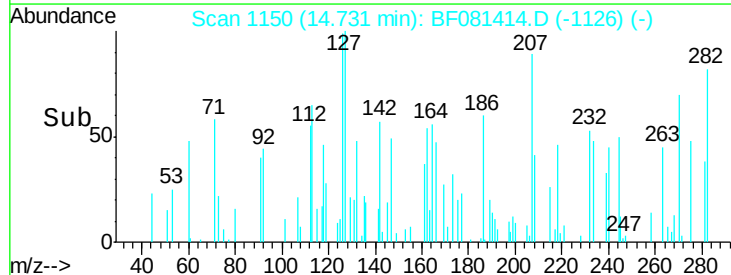
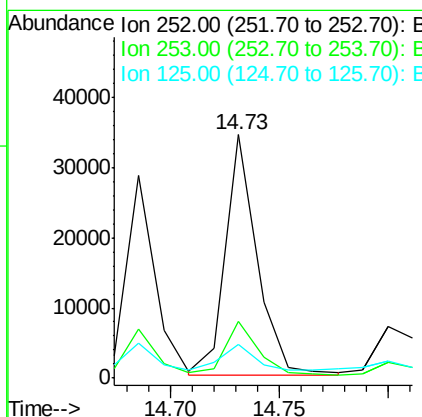
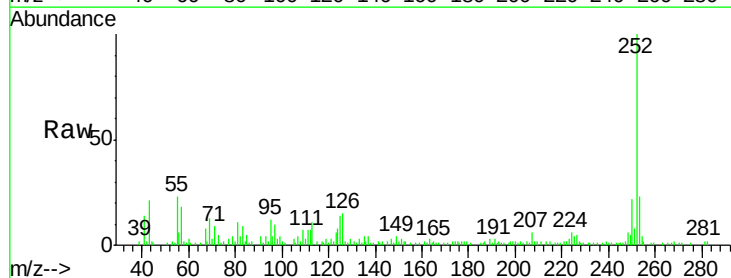
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 26518  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.0 25.4  
125 17.5 16.0 24.0

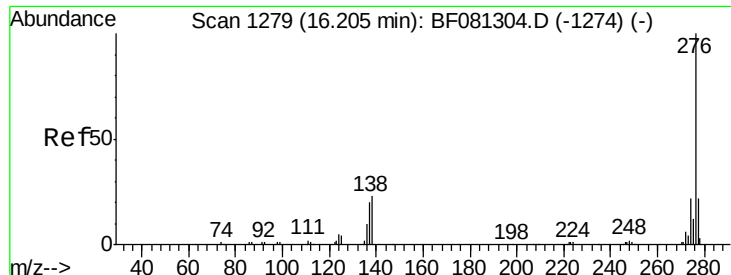


#89  
Benzo(a)pyrene  
Concen: 5.85 ng  
RT: 14.73 min Scan# 1150  
Delta R.T. -0.02 min  
Lab File: BF081414.D  
Acq: 4 Sep 2015 10:59

Tgt Ion:252 Resp: 34826  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.2 25.8  
125 13.9 18.0 27.0#







#91

Benzo(a,h,i)perylene

Concen: 4.31 ng

RT: 16.18 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF081414.D

Acq: 4 Sep 2015 10:59

Instrument :

BNA\_F

ClientSampleId :

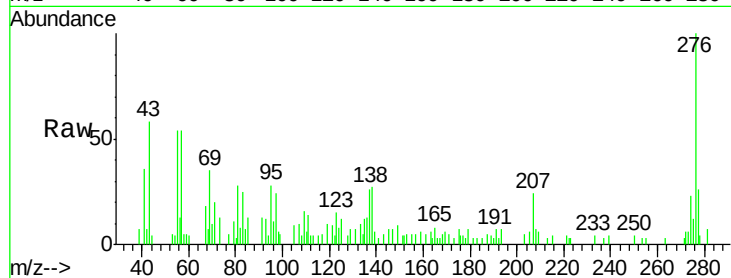
Tot Ion: 276 Resp: 18925

Ion Ratio Lower Upper

276 100

277 26.1 17.8 26.6

138 27.2 34.6 51.8#



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

