

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\  
 Data File : BF084471.D  
 Acq On : 14 Jan 2016 5:57  
 Operator : SJ/UM  
 Sample : H1113-05  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

Quant Time: Jan 14 11:18:08 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 04 12:22:40 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 260293   | 20.00 | ng    | -0.07    |
| 21) Naphthalene-d8        | 8.12  | 136  | 1029563  | 20.00 | ng    | -0.07    |
| 38) Acenaphthene-d10      | 9.87  | 164  | 508182   | 20.00 | ng    | -0.08    |
| 63) Phenanthrene-d10      | 11.36 | 188  | 925221   | 20.00 | ng    | -0.07    |
| 75) Chrysene-d12          | 13.99 | 240  | 793735   | 20.00 | ng    | -0.08    |
| 86) Perylene-d12          | 15.40 | 264  | 578655   | 20.00 | ng    | -0.10    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.44  | 112  | 1129870  | 70.21  | ng    | -0.06    |
| 7) Phenol-d6                | 6.46  | 99   | 868749   | 42.98  | ng    | -0.07    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 1848448  | 99.92  | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 635239   | 123.82 | ng    | -0.08    |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 2487717  | 86.21  | ng    | -0.07    |
| 78) Terphenyl-d14           | 12.95 | 244  | 2544139  | 71.55  | ng    | -0.07    |

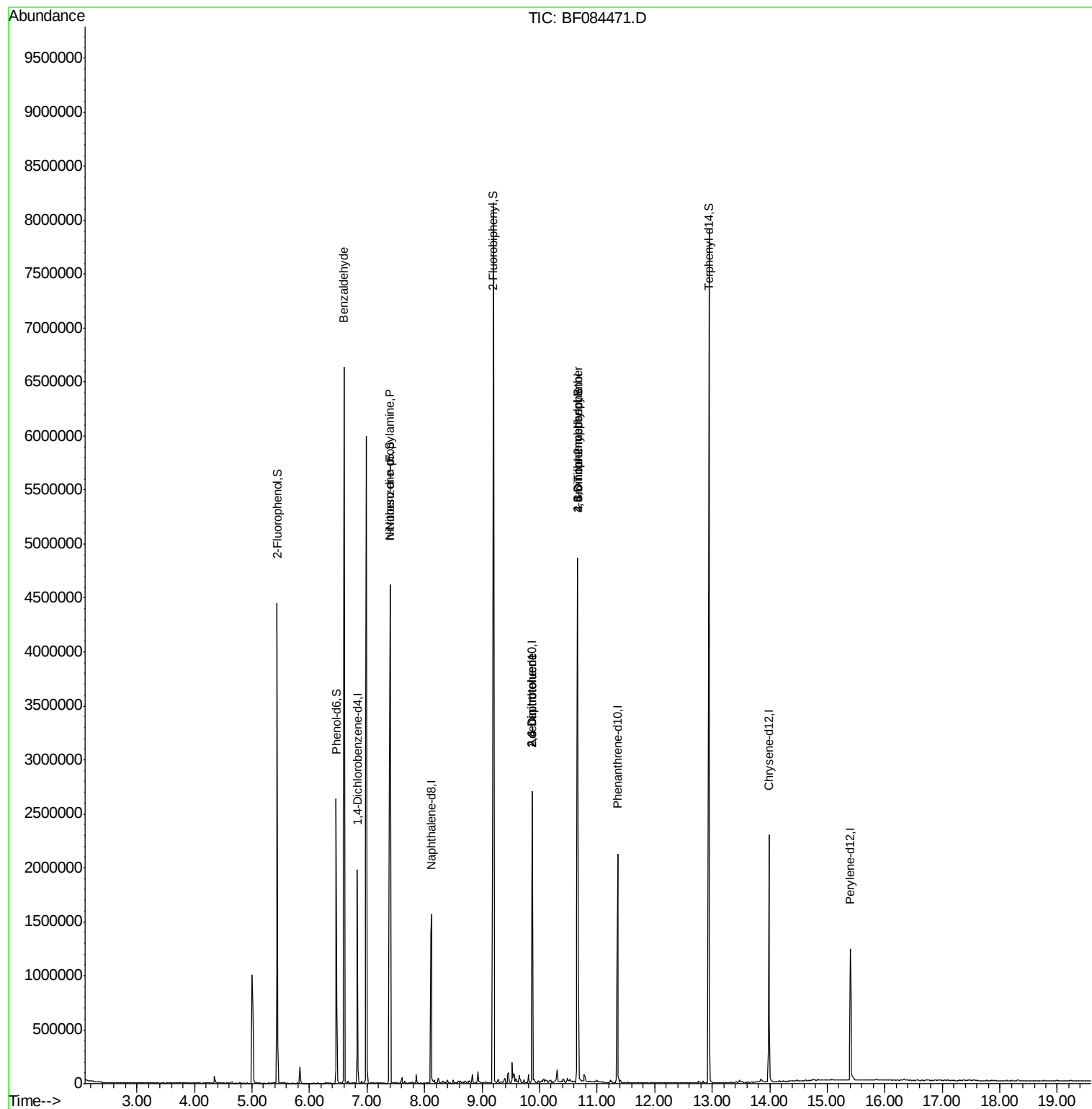
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.60  | 77   | 44745    | 3.40      | ng    | # 73   |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 259538   | 18.97     | ng    | # 77   |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165  | 65342    | 8.20      | ng    | # 38   |
| 54) Dibenzofuran               | 10.08 | 168  | 7497     | Below Cal |       | # 94   |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 66093    | 6.55      | ng    | # 22   |
| 57) Fluorene                   | 10.42 | 166  | 11014    | Below Cal |       | # 98   |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 1204     | 6.58      | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 38289    | 3.84      | ng    | # 1    |
| 73) Di-n-butylphthalate        | 11.92 | 149  | 4270     | Below Cal |       | # 92   |

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

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 04 12:22:40 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.07 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

Instrument :

BNA\_F

ClientSampleId :

MW-4

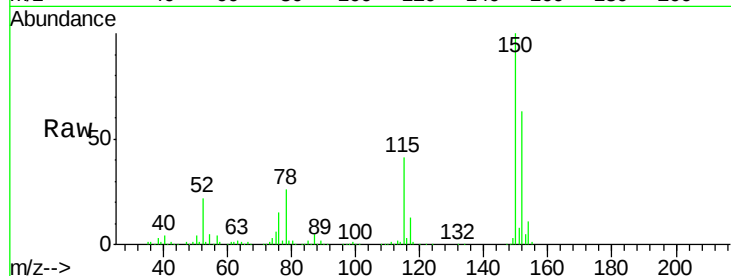
Tot Ion:152 Resp: 260293

Ion Ratio Lower Upper

152 100

150 157.9 123.0 184.4

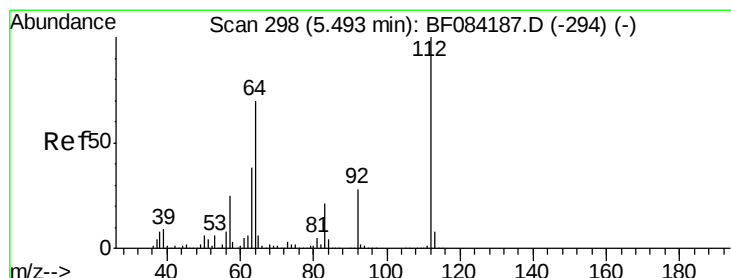
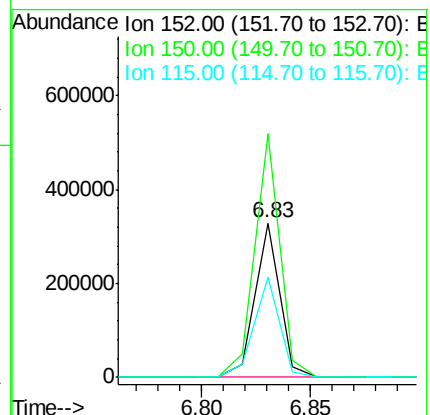
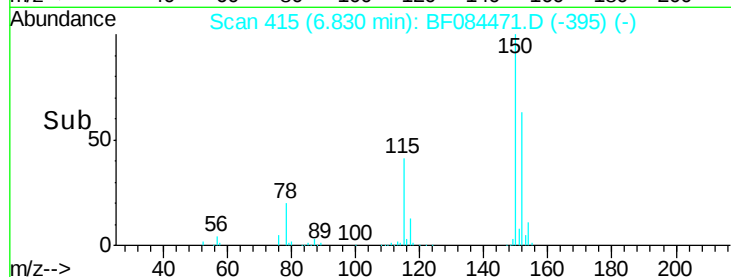
115 65.3 51.4 77.2



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: 70.21 ng

RT: 5.44 min Scan# 293

Delta R.T. -0.06 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

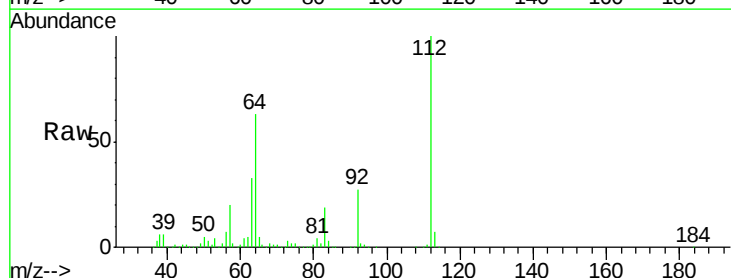
Tgt Ion:112 Resp: 1129870

Ion Ratio Lower Upper

112 100

64 62.8 36.6 55.0#

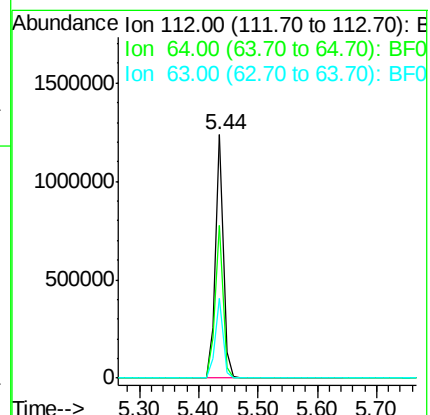
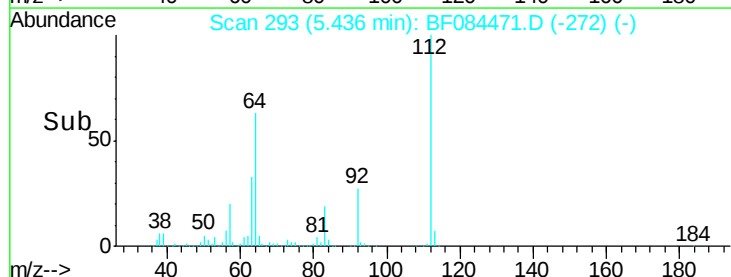
63 32.6 19.4 29.0#

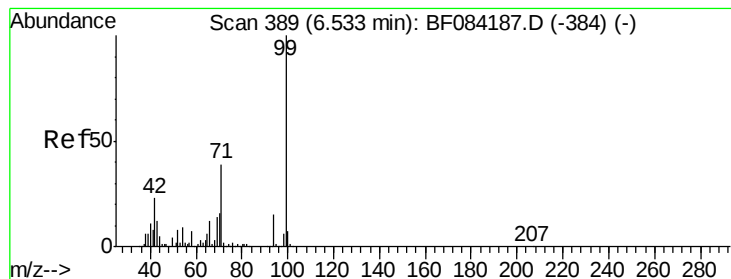


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 42.98 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.07 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

Instrument :

BNA\_F

ClientSampleId :

MW-4

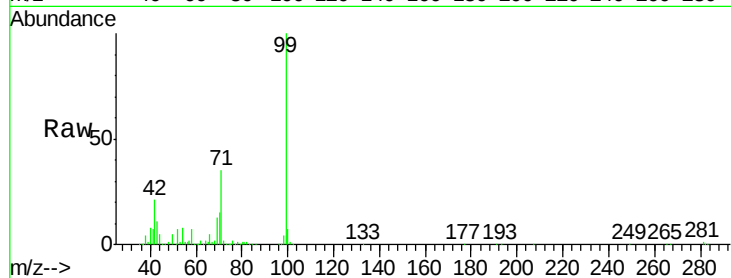
Tot Ion: 99 Resp: 868749

Ion Ratio Lower Upper

99 100

42 21.1 12.8 19.2#

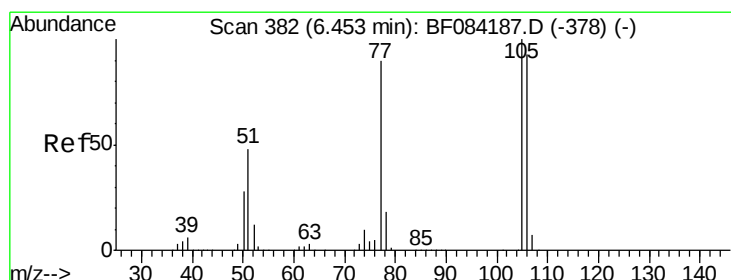
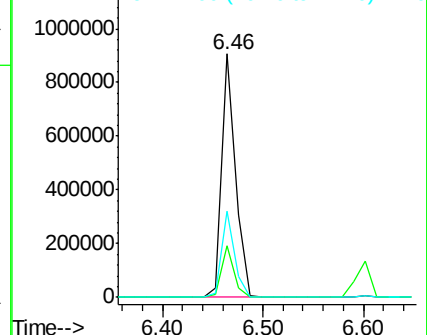
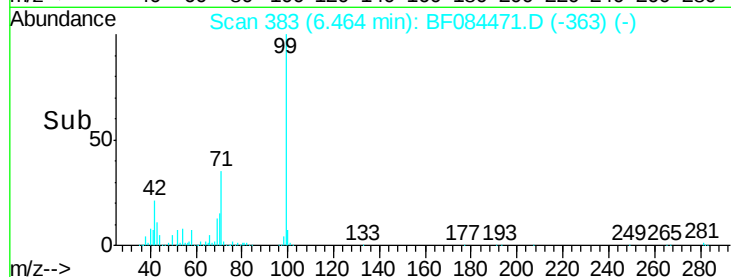
71 35.1 30.9 46.3



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



#9

Benzaldehyde

Concen: 3.40 ng

RT: 6.60 min Scan# 395

Delta R.T. 0.15 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

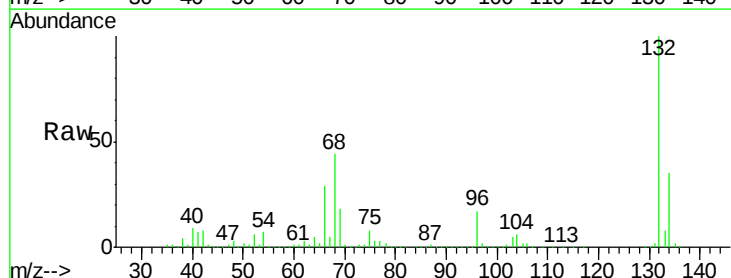
Tgt Ion: 77 Resp: 44745

Ion Ratio Lower Upper

77 100

105 75.9 83.0 123.0#

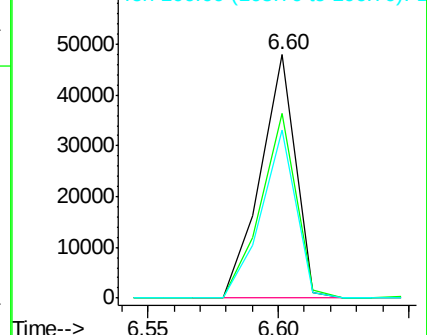
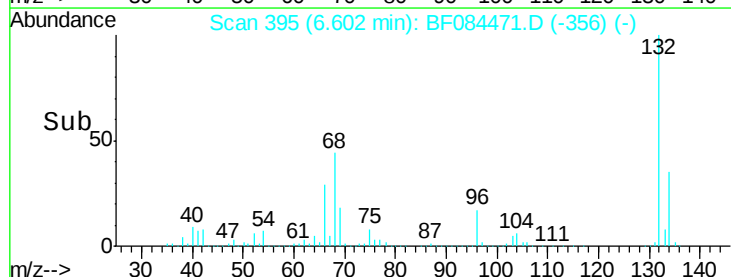
106 69.0 74.6 114.6#

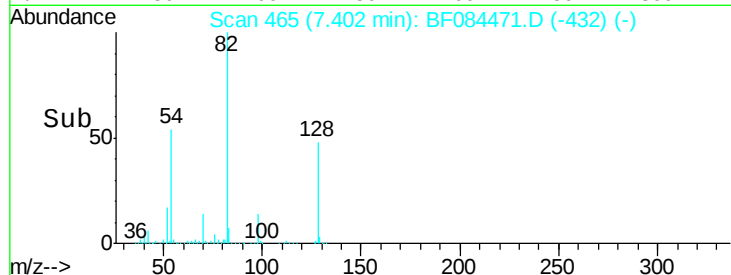
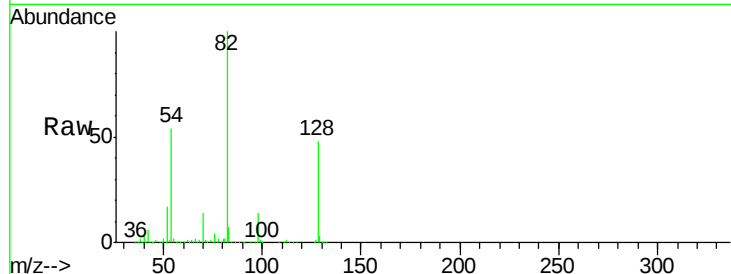


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

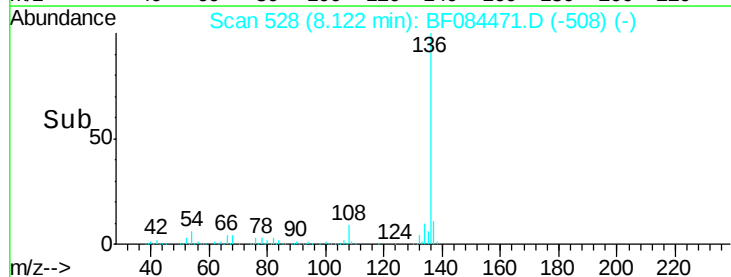
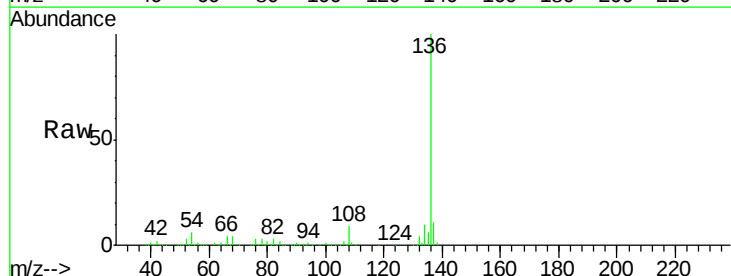
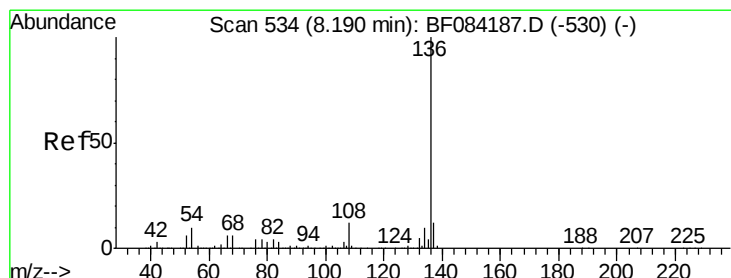
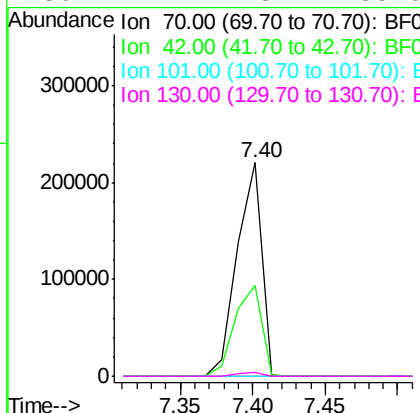




#19  
n-Nitroso-di-n-propylamine  
Concen: 18.97 ng  
RT: 7.40 min Scan# 465  
Delta R.T. 0.08 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

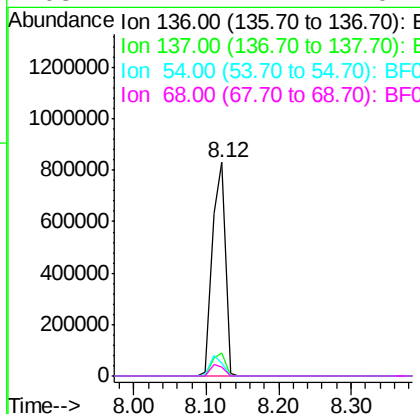
Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

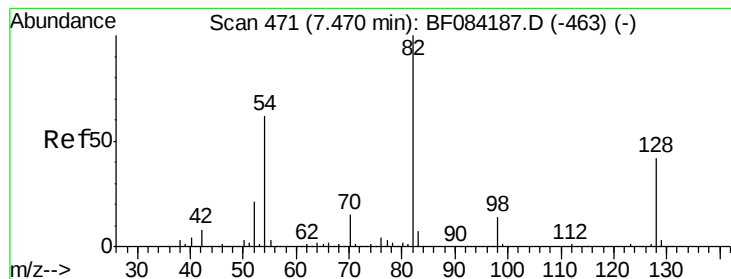
Tot Ion: 70 Resp: 259538  
Ion Ratio Lower Upper  
70 100  
42 42.7 33.3 49.9  
101 0.0 9.3 13.9#  
130 2.1 23.4 35.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.07 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Tgt Ion:136 Resp: 1029563  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.7 13.1  
54 6.3 5.8 8.8  
68 4.2 4.2 6.2





#23

Nitrobenzene-d5

Concen: 99.92 ng

RT: 7.40 min Scan# 465

Delta R.T. -0.07 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

Instrument :

BNA\_F

ClientSampleID :

MW-4

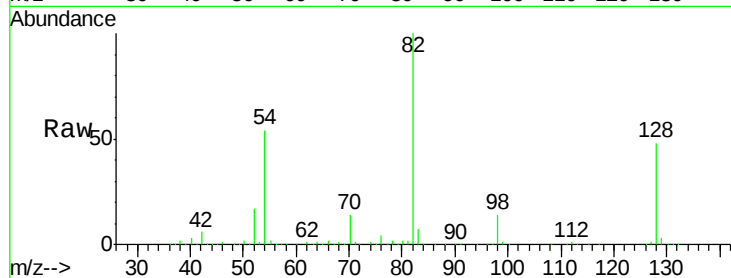
Tot Ion: 82 Resp: 1848448

Ion Ratio Lower Upper

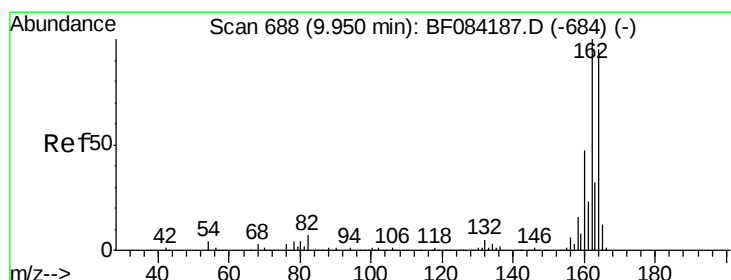
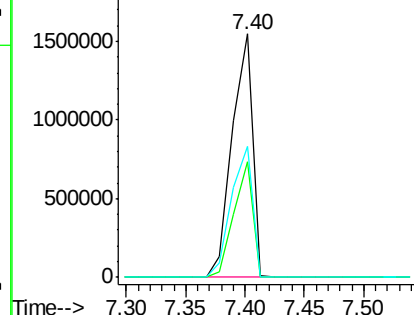
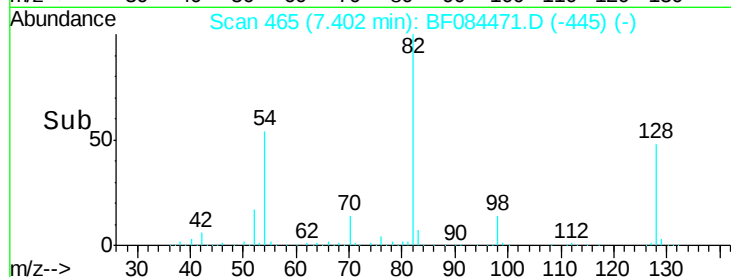
82 100

128 47.7 34.6 51.8

54 53.5 38.4 57.6



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.87 min Scan# 681

Delta R.T. -0.08 min

Lab File: BF084471.D

Acq: 14 Jan 2016 5:57

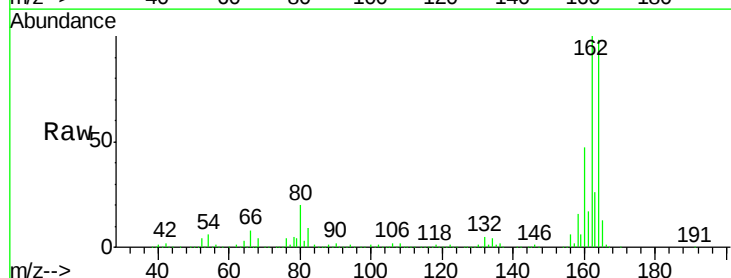
Tgt Ion:164 Resp: 508182

Ion Ratio Lower Upper

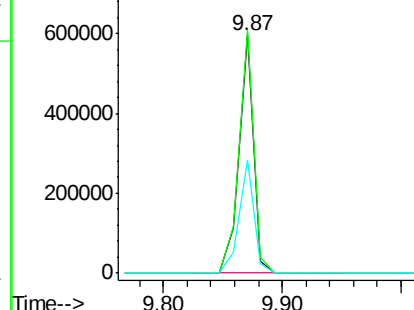
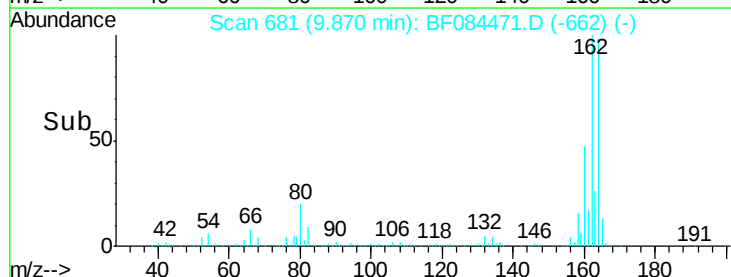
164 100

162 102.3 85.1 127.7

160 47.6 37.5 56.3



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

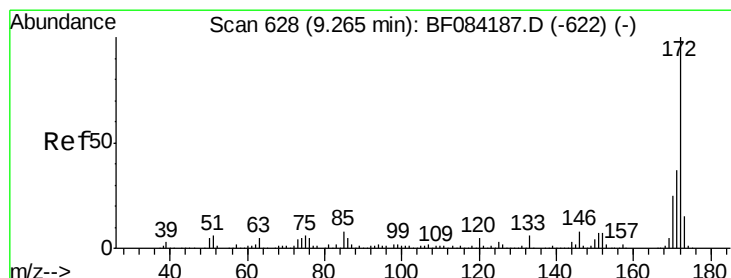
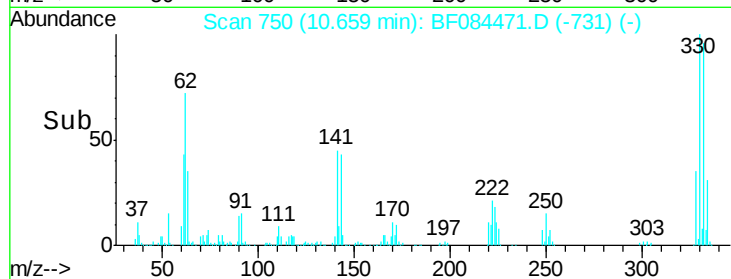
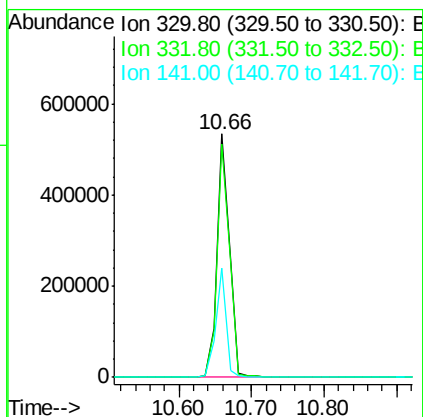
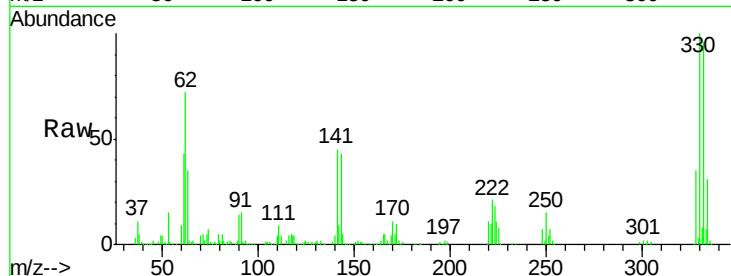




#41  
 2,4,6-Tribromophenol  
 Concen: 123.82 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.08 min  
 Lab File: BF084471.D  
 Acq: 14 Jan 2016 5:57

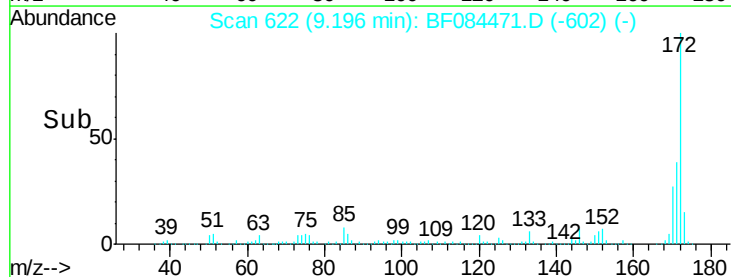
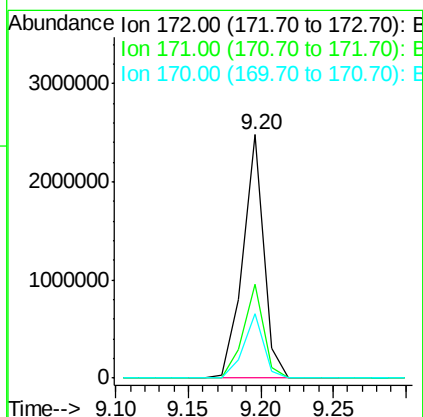
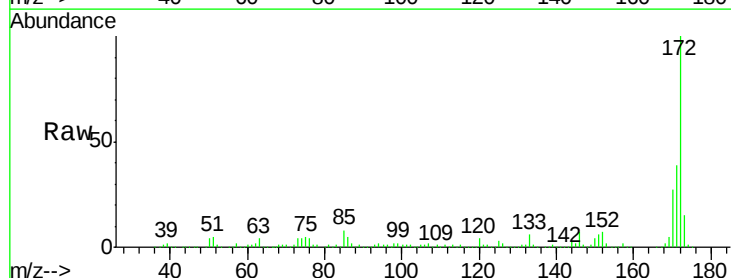
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

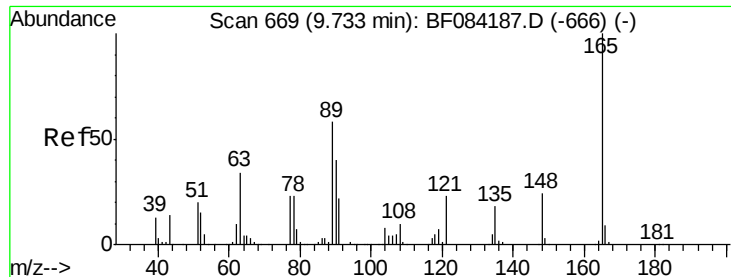
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.6  | 114.8 |
| 141     | 37.5  | 27.8  | 41.6  |



#44  
 2-Fluorobiphenyl  
 Concen: 86.21 ng  
 RT: 9.20 min Scan# 622  
 Delta R.T. -0.07 min  
 Lab File: BF084471.D  
 Acq: 14 Jan 2016 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 28.9  | 43.3  |
| 170     | 26.5  | 18.6  | 27.8  |

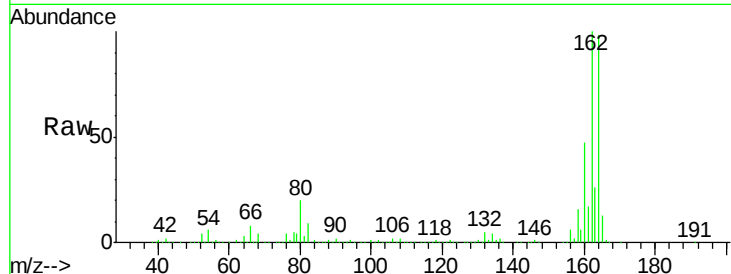




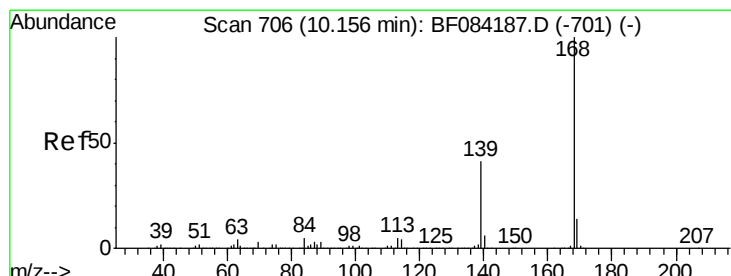
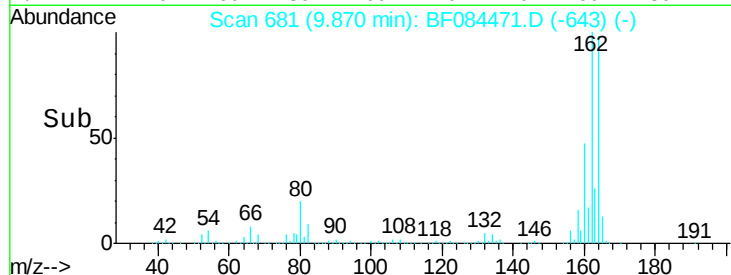
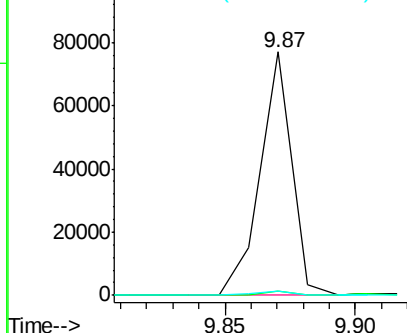
#50  
2,6-Dinitrotoluene  
Concen: 8.20 ng  
RT: 9.87 min Scan# 681  
Delta R.T. 0.14 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 28.8  | 43.2# |
| 89      | 1.6   | 35.1  | 52.7# |

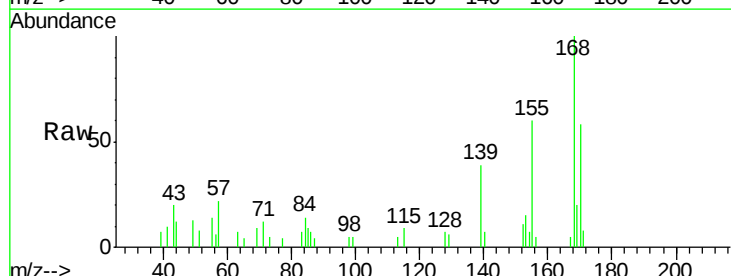


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

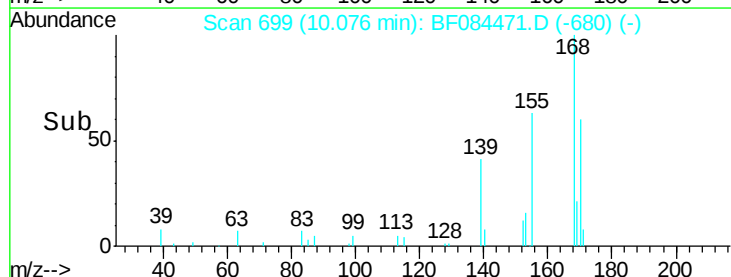
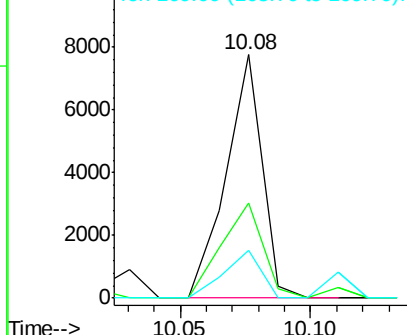


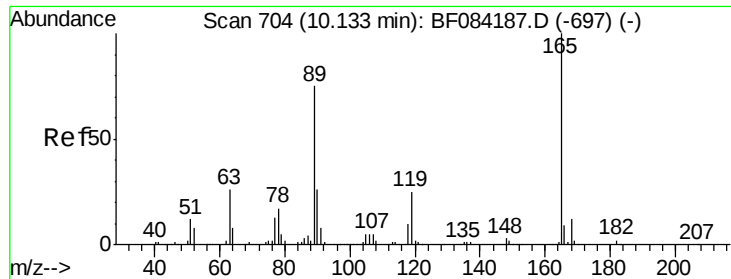
#54  
Dibenzofuran  
Concen: Below Cal  
RT: 10.08 min Scan# 699  
Delta R.T. -0.08 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.2  | 30.5  | 45.7  |
| 169     | 19.8  | 10.4  | 15.6# |



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

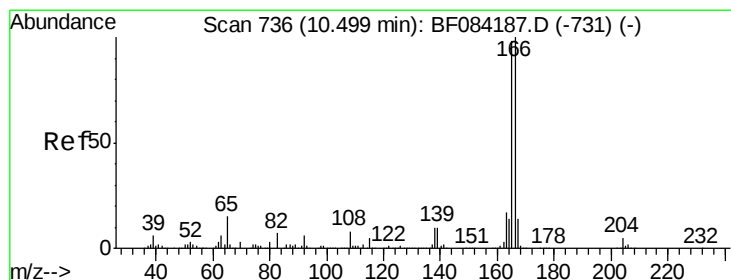
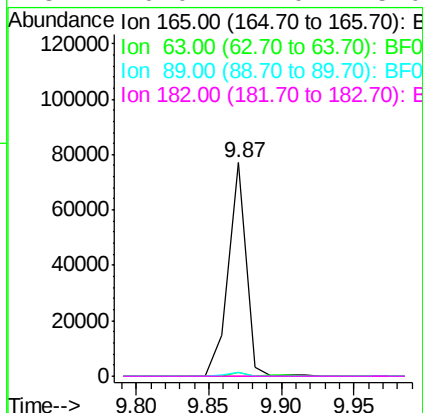
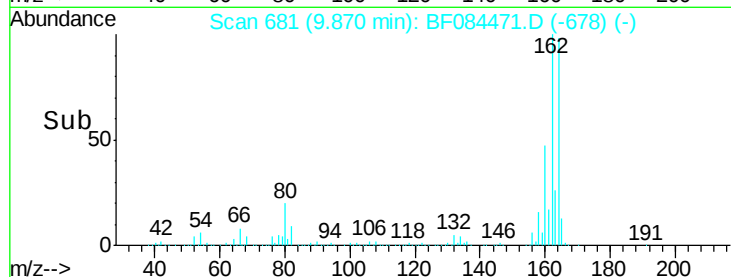
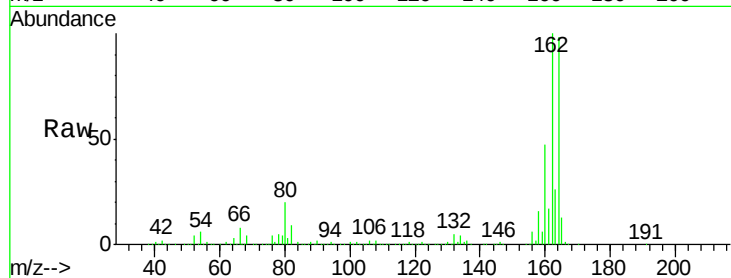




#56  
2,4-Dinitrotoluene  
Concen: 6.55 ng  
RT: 9.87 min Scan# 681  
Delta R.T. -0.26 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

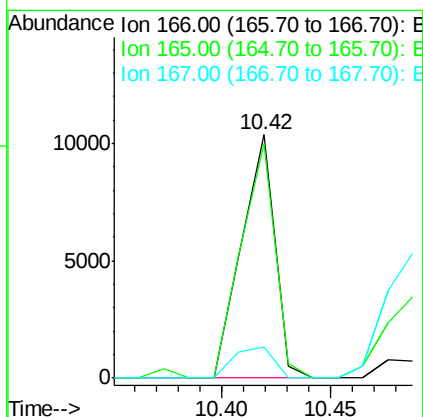
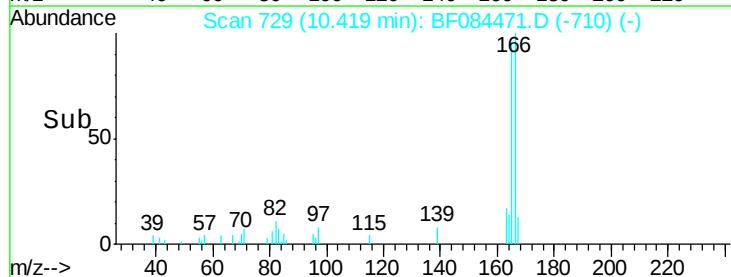
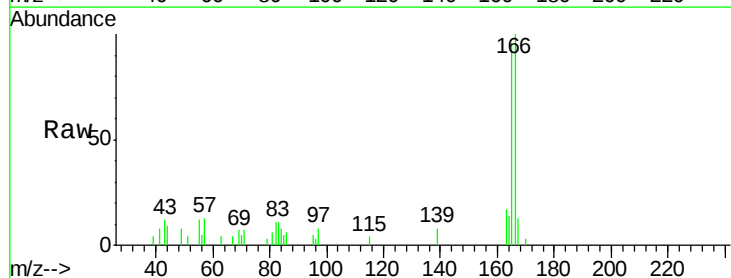
Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

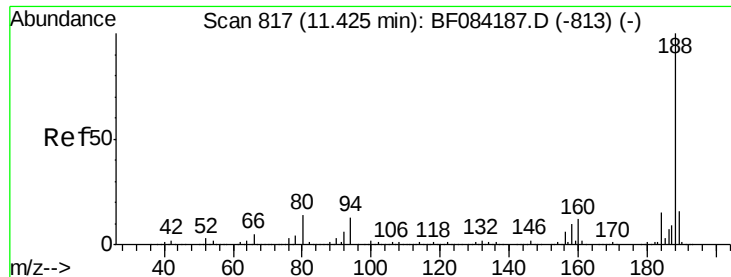
Tot Ion:165 Resp: 66093  
Ion Ratio Lower Upper  
165 100  
63 1.7 36.7 55.1#  
89 1.6 61.9 92.9#  
182 0.0 2.0 3.0#



#57  
Fluorene  
Concen: Below Cal  
RT: 10.42 min Scan# 729  
Delta R.T. -0.08 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Tgt Ion:166 Resp: 11014  
Ion Ratio Lower Upper  
166 100  
165 96.2 79.1 118.7  
167 12.8 10.4 15.6

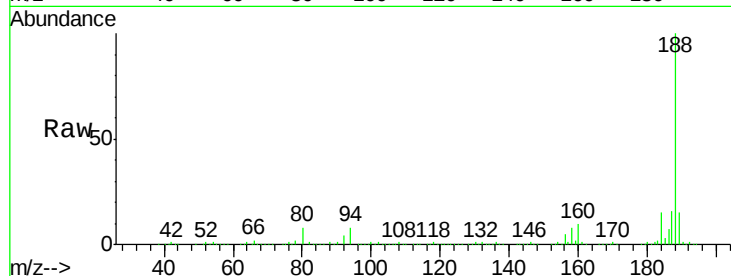




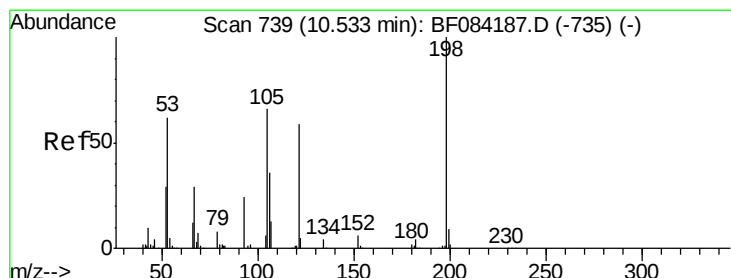
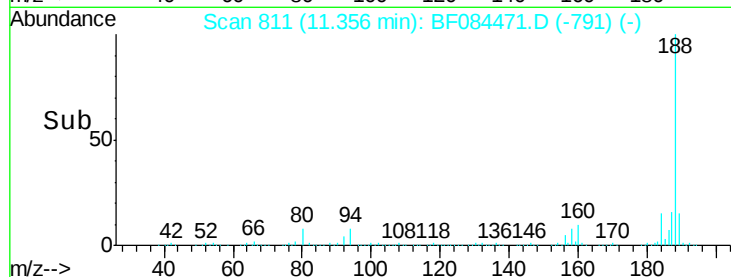
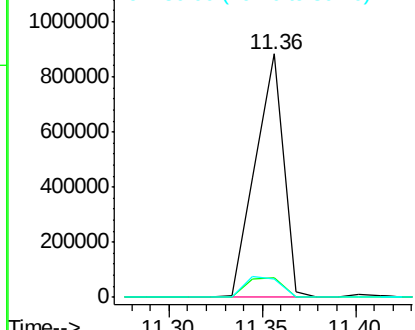
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.36 min Scan# 811  
Delta R.T. -0.07 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

Tot Ion:188 Resp: 925221  
Ion Ratio Lower Upper  
188 100  
94 8.0 9.0 13.4#  
80 7.6 9.6 14.4#

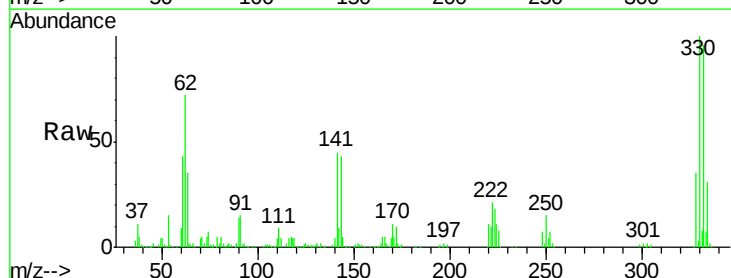


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

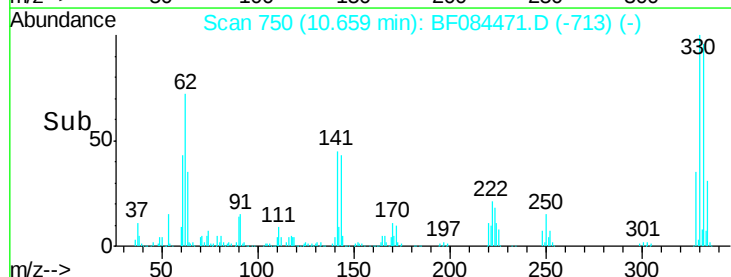
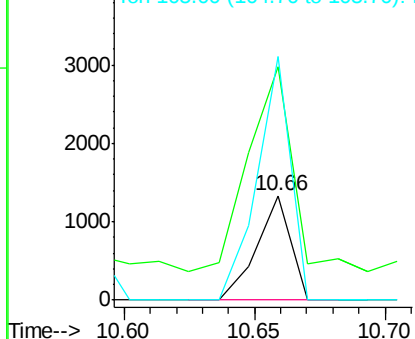


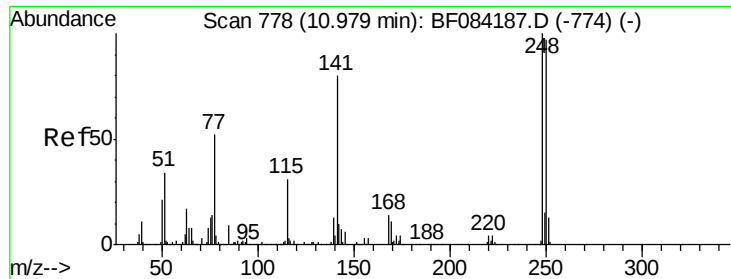
#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.58 ng  
RT: 10.66 min Scan# 750  
Delta R.T. 0.13 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Tgt Ion:198 Resp: 1204  
Ion Ratio Lower Upper  
198 100  
51 223.2 18.9 58.9#  
105 233.5 26.4 66.4#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

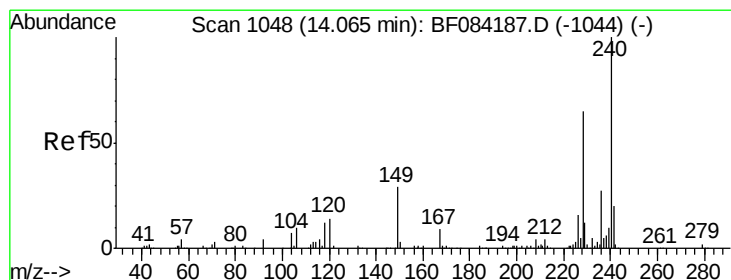
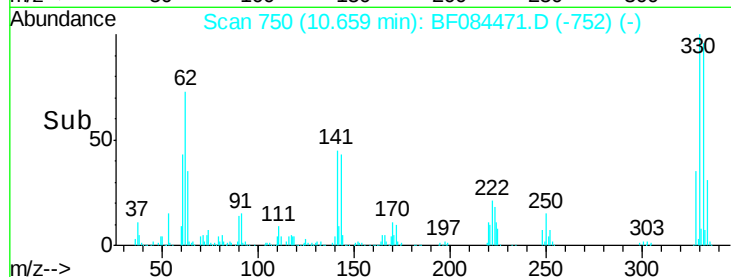
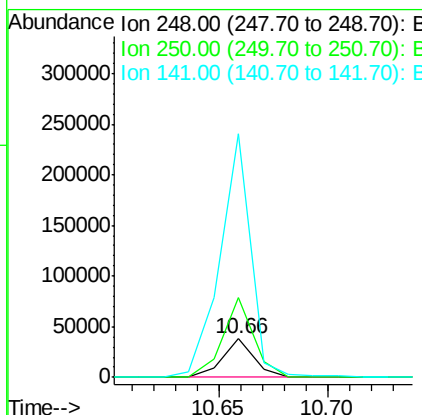
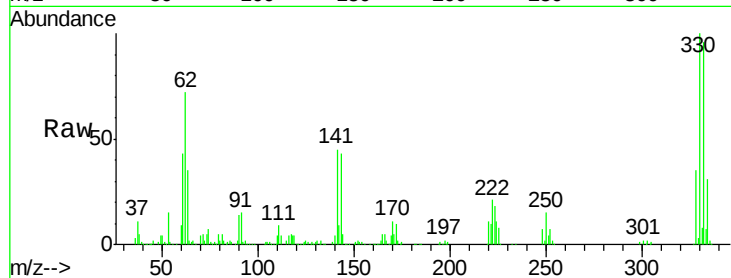




#66  
4-Bromophenyl-phenylether  
Concen: 3.84 ng  
RT: 10.66 min Scan# 750  
Delta R.T. -0.32 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

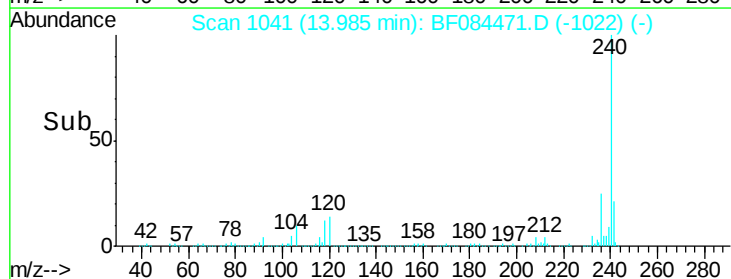
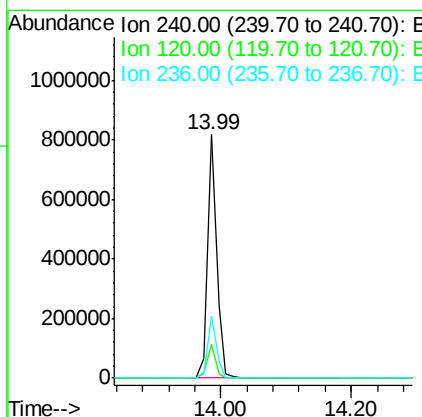
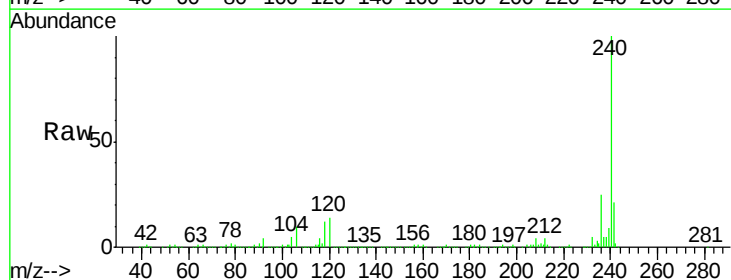
Instrument :  
BNA\_F  
ClientSampleId :  
MW-4

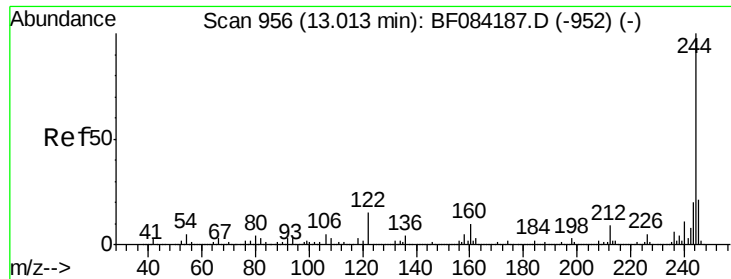
Tot Ion:248 Resp: 38289  
Ion Ratio Lower Upper  
248 100  
250 206.1 78.4 117.6#  
141 632.3 44.0 66.0#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.08 min  
Lab File: BF084471.D  
Acq: 14 Jan 2016 5:57

Tgt Ion:240 Resp: 793735  
Ion Ratio Lower Upper  
240 100  
120 13.9 9.5 14.3  
236 25.2 20.6 31.0

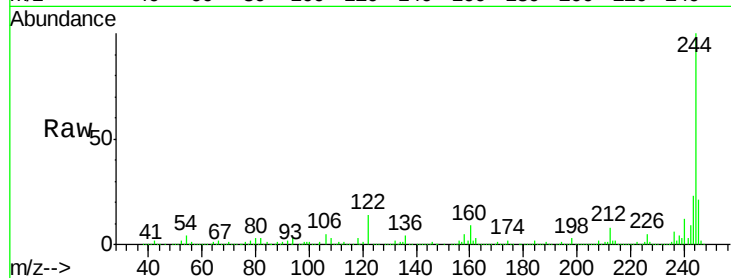




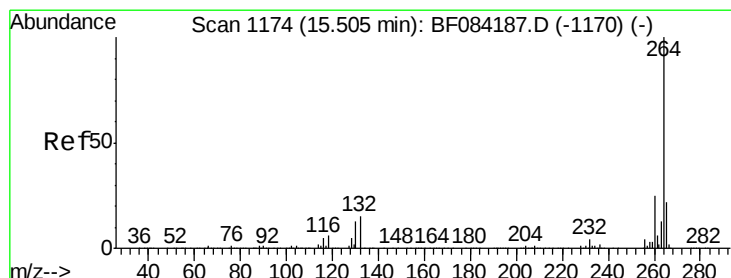
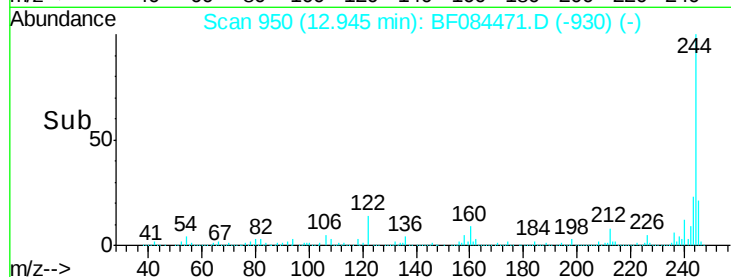
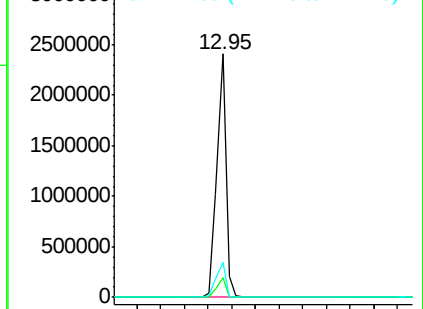
#78  
 Terphenyl-d14  
 Concen: 71.55 ng  
 RT: 12.95 min Scan# 950  
 Delta R.T. -0.07 min  
 Lab File: BF084471.D  
 Acq: 14 Jan 2016 5:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4

Tot Ion:244 Resp: 2544139  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 5.7 8.5  
 122 14.2 7.4 11.0#

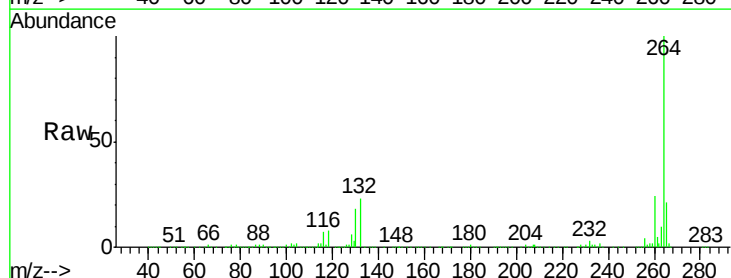


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.40 min Scan# 1165  
 Delta R.T. -0.10 min  
 Lab File: BF084471.D  
 Acq: 14 Jan 2016 5:57

Tgt Ion:264 Resp: 578655  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.4 29.2  
 265 21.3 17.8 26.6



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

