

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011316\  
 Data File : BF084470.D  
 Acq On : 14 Jan 2016 5:29  
 Operator : SJ/UM  
 Sample : H1113-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-3

Quant Time: Jan 14 11:17:57 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  | 279189   | 20.00 | ng    | -0.07    |
| 21) Naphthalene-d8        | 8.12  | 136  | 1109302  | 20.00 | ng    | -0.07    |
| 38) Acenaphthene-d10      | 9.87  | 164  | 532776   | 20.00 | ng    | -0.08    |
| 63) Phenanthrene-d10      | 11.36 | 188  | 1004817  | 20.00 | ng    | -0.07    |
| 75) Chrysene-d12          | 13.98 | 240  | 820188   | 20.00 | ng    | -0.08    |
| 86) Perylene-d12          | 15.40 | 264  | 601004   | 20.00 | ng    | -0.10    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.44  | 112  | 1114354  | 64.56  | ng    | -0.06    |
| 7) Phenol-d6                | 6.46  | 99   | 909898   | 41.97  | ng    | -0.07    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 1880368  | 94.34  | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol    | 10.66 | 330  | 644701   | 119.86 | ng    | -0.08    |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 2564744  | 84.66  | ng    | -0.07    |
| 78) Terphenyl-d14           | 12.94 | 244  | 2486043  | 67.66  | ng    | -0.07    |

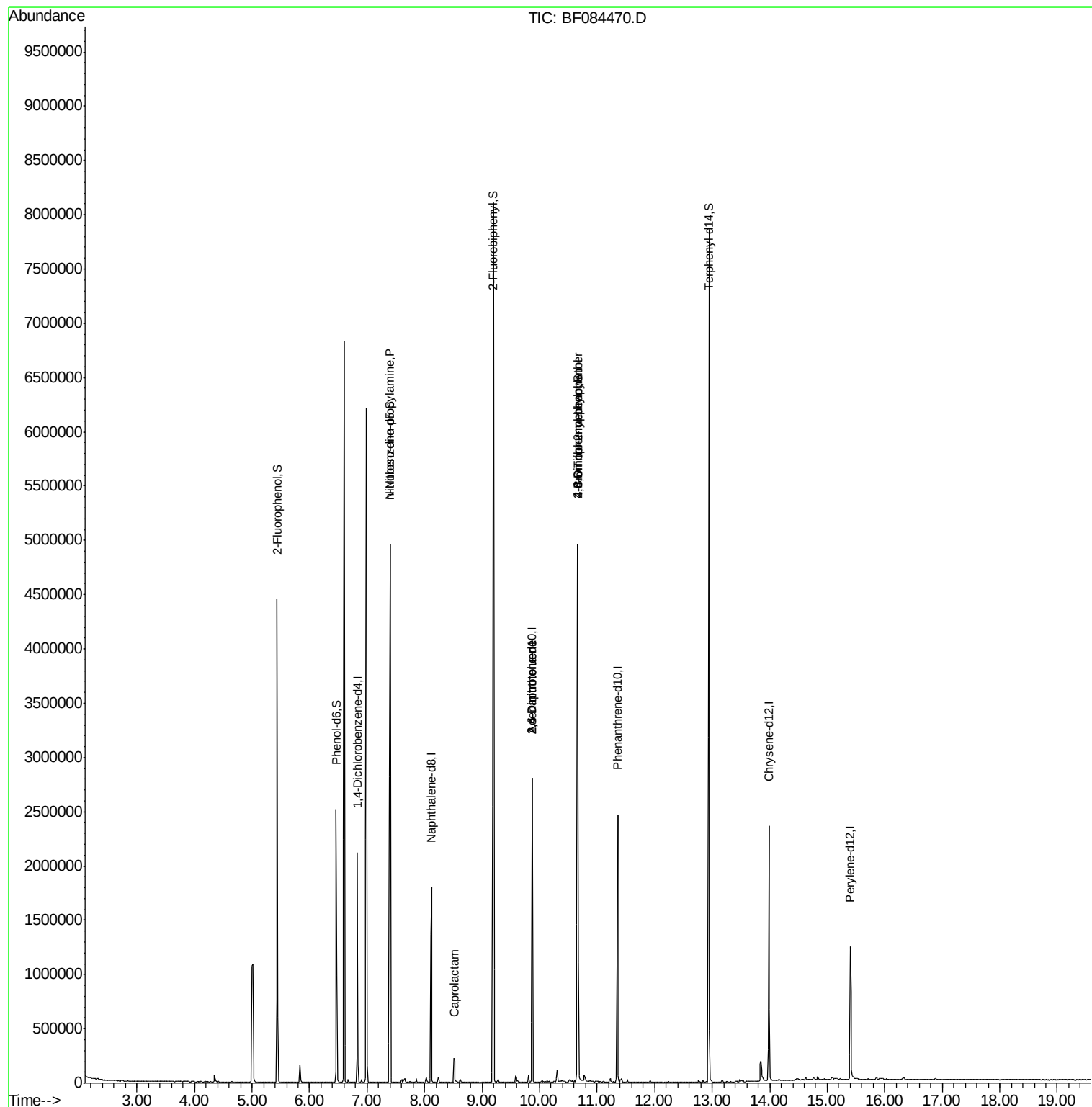
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 262554   | 17.89     | ng    | # 74   |
| 35) Caprolactam                | 8.52  | 113  | 31962    | 6.11      | ng    | # 86   |
| 50) 2,6-Dinitrotoluene         | 9.87  | 165  | 69808    | 8.36      | ng    | # 38   |
| 54) Dibenzofuran               | 10.08 | 168  | 282      | Below Cal |       | # 45   |
| 56) 2,4-Dinitrotoluene         | 9.87  | 165  | 69811    | 6.60      | ng    | # 22   |
| 57) Fluorene                   | 10.66 | 166  | 27271    | Below Cal |       | # 91   |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 1141     | 6.56      | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.66 | 248  | 39762    | 3.68      | ng    | # 1    |
| 73) Di-n-butylphthalate        | 11.92 | 149  | 8202     | Below Cal |       | # 94   |

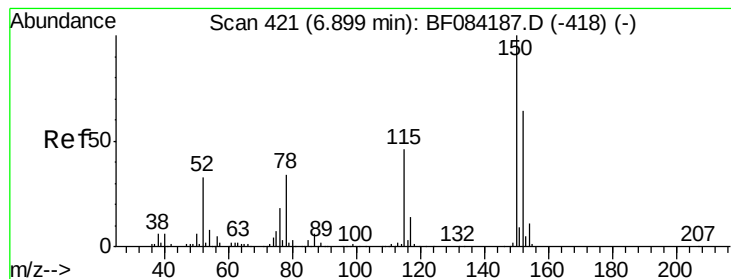
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 14 11:17:57 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.07 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

Instrument :

BNA\_F

ClientSampled :

MW-3

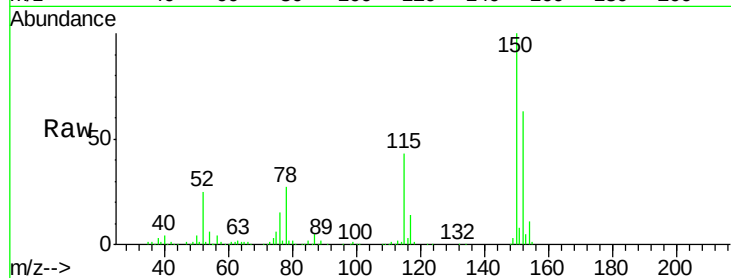
Tot Ion:152 Resp: 279189

Ion Ratio Lower Upper

152 100

150 157.8 123.0 184.4

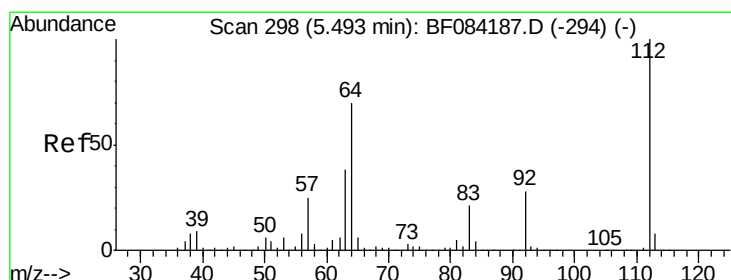
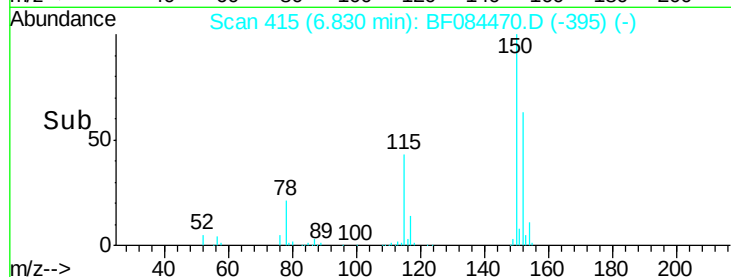
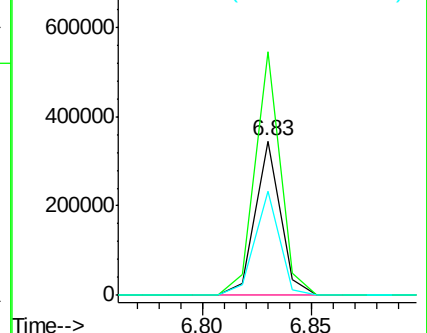
115 67.7 51.4 77.2



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: 64.56 ng

RT: 5.44 min Scan# 293

Delta R.T. -0.06 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

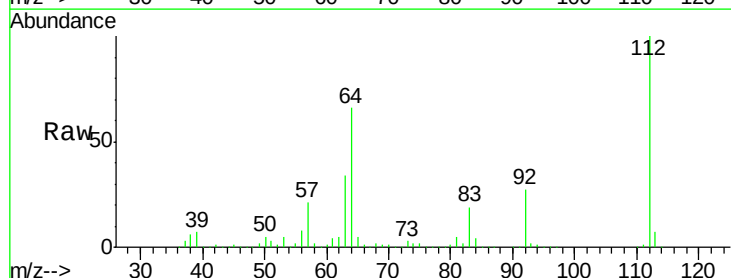
Tgt Ion:112 Resp: 1114354

Ion Ratio Lower Upper

112 100

64 65.8 36.6 55.0#

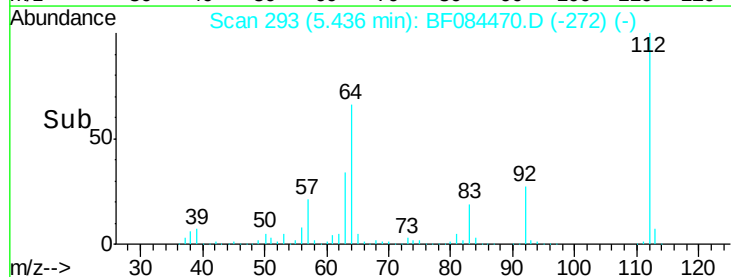
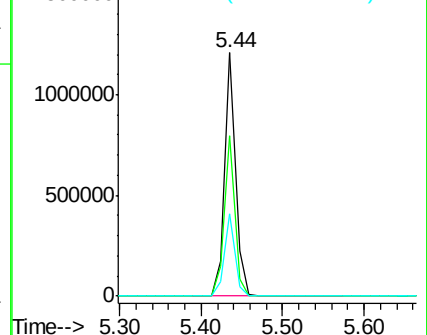
63 33.6 19.4 29.0#

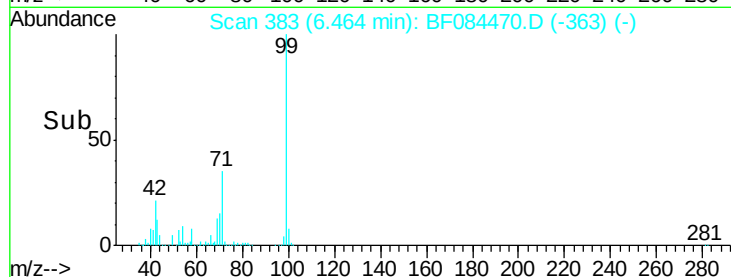
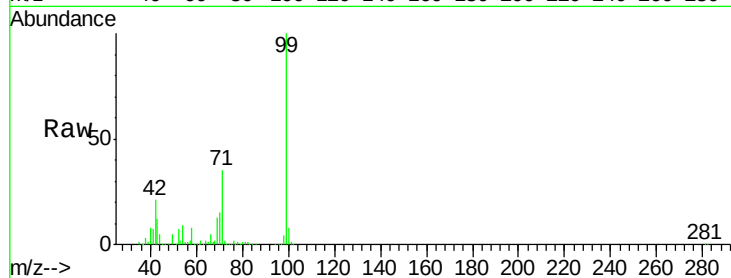
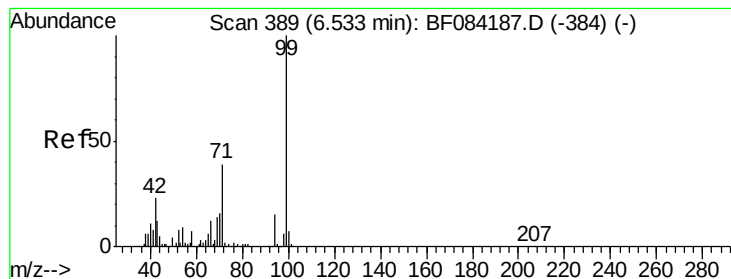


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 41.97 ng

RT: 6.46 min Scan# 383

Delta R.T. -0.07 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

Instrument :

BNA\_F

ClientSampleId :

MW-3

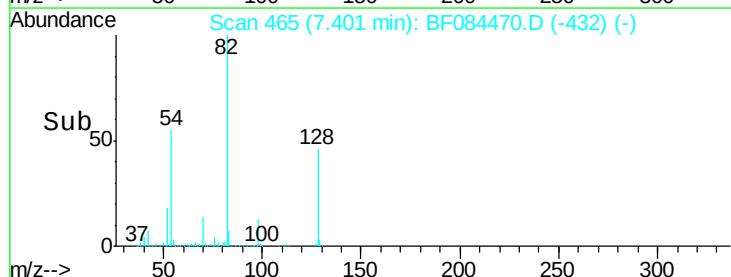
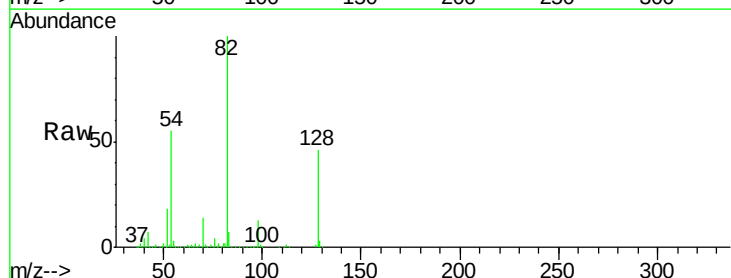
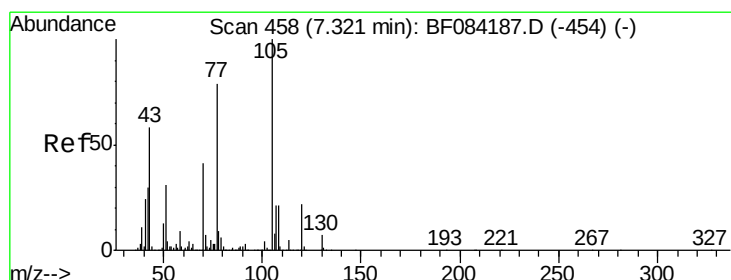
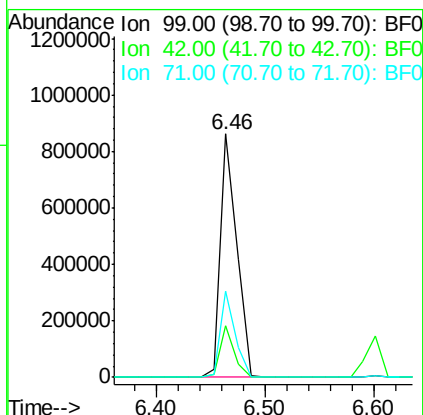
Tot Ion: 99 Resp: 909898

Ion Ratio Lower Upper

99 100

42 21.2 12.8 19.2#

71 35.2 30.9 46.3



#19

n-Nitroso-di-n-propylamine

Concen: 17.89 ng

RT: 7.40 min Scan# 465

Delta R.T. 0.08 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

Tgt Ion: 70 Resp: 262554

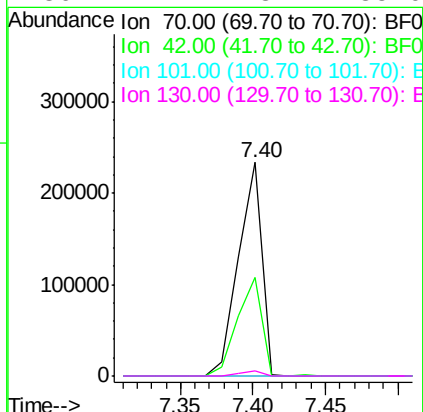
Ion Ratio Lower Upper

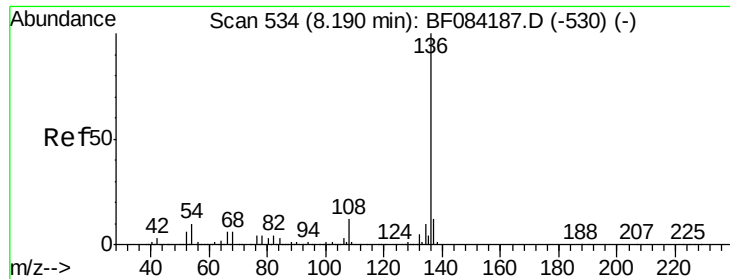
70 100

42 46.4 33.3 49.9

101 0.0 9.3 13.9#

130 2.2 23.4 35.0#



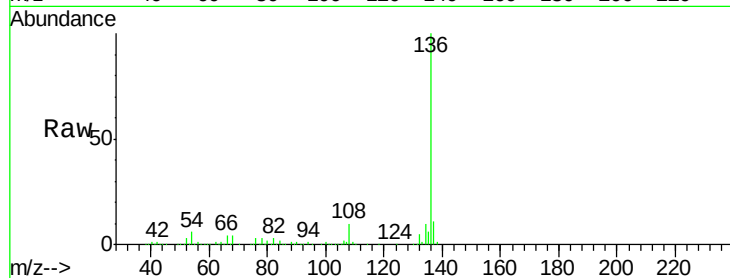


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 528  
Delta R.T. -0.07 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

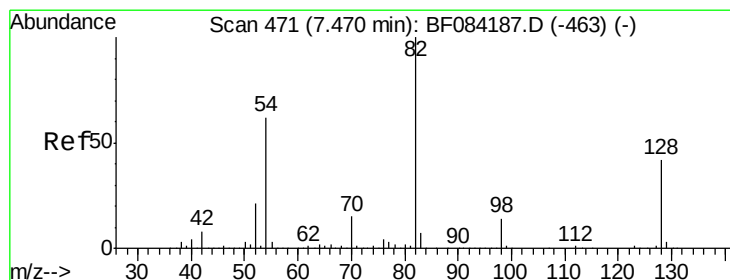
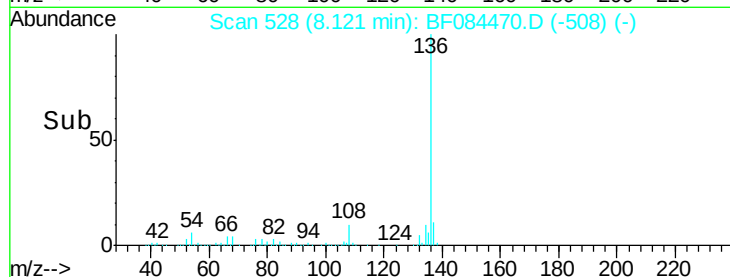
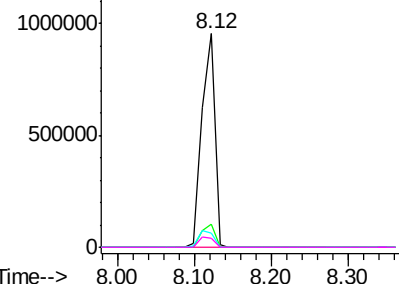
Instrument :  
BNA\_F  
ClientSampleId :  
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Tot Ion:136 Resp: 1109302

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.6  | 8.7   | 13.1  |
| 54  | 6.4   | 5.8   | 8.8   |
| 68  | 4.4   | 4.2   | 6.2   |



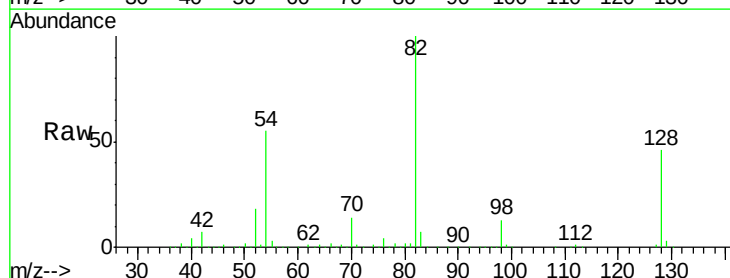
Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0



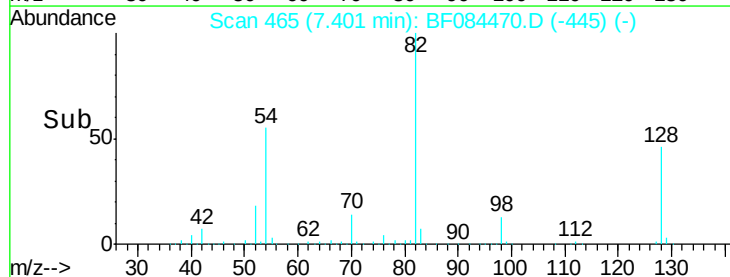
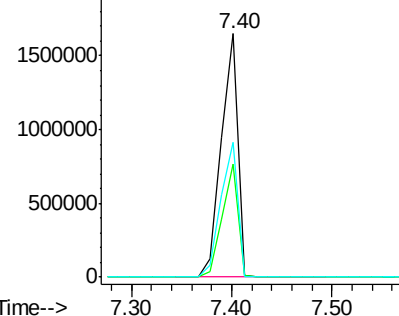
#23  
Nitrobenzene-d5  
Concen: 94.34 ng  
RT: 7.40 min Scan# 465  
Delta R.T. -0.07 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

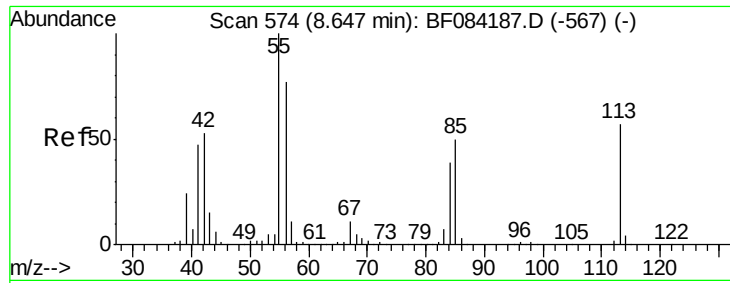
Tgt Ion: 82 Resp: 1880368

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 46.4  | 34.6  | 51.8  |
| 54  | 55.1  | 38.4  | 57.6  |



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

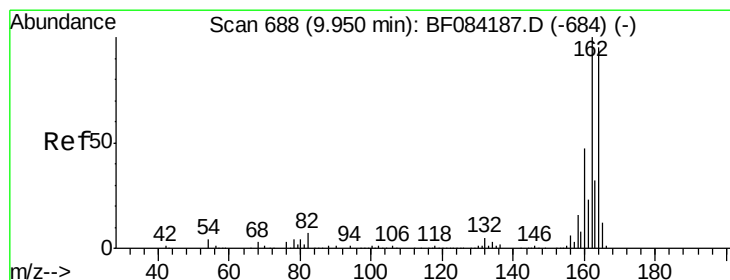
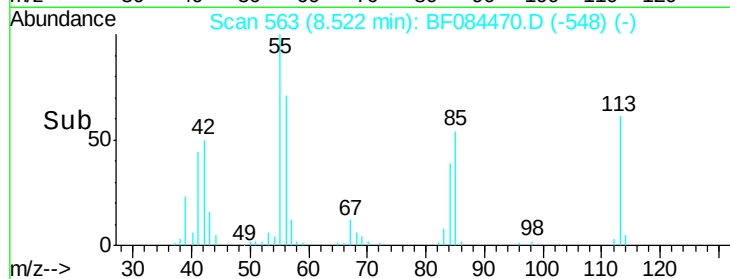
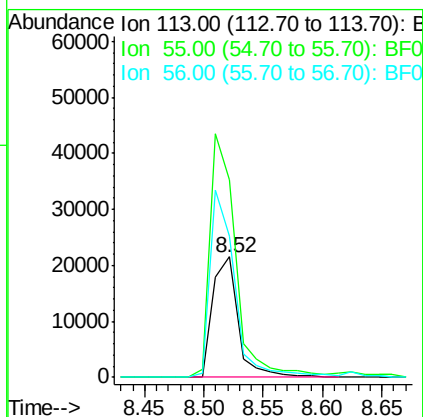
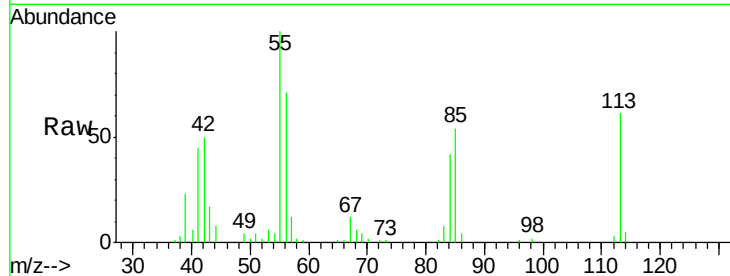




#35  
Caprolactam  
Concen: 6.11 ng  
RT: 8.52 min Scan# 563  
Delta R.T. -0.13 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

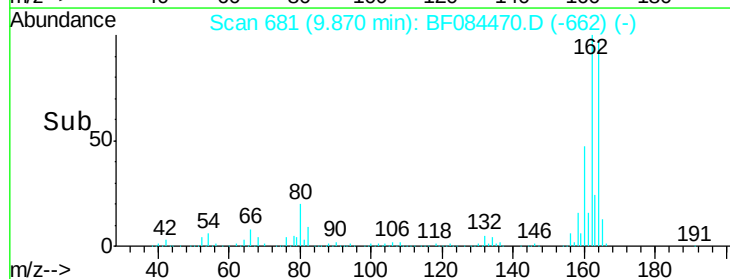
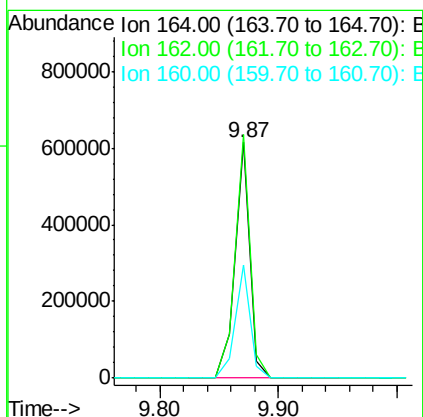
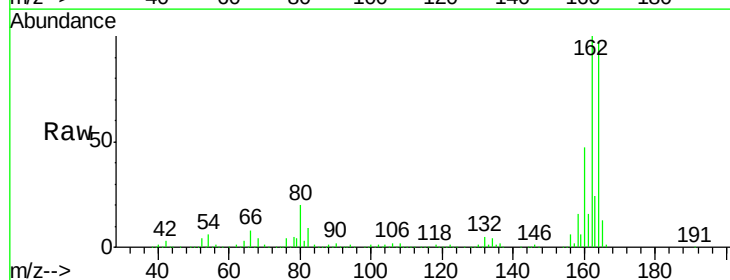
Instrument :  
BNA\_F  
ClientSampleId :  
MW-3

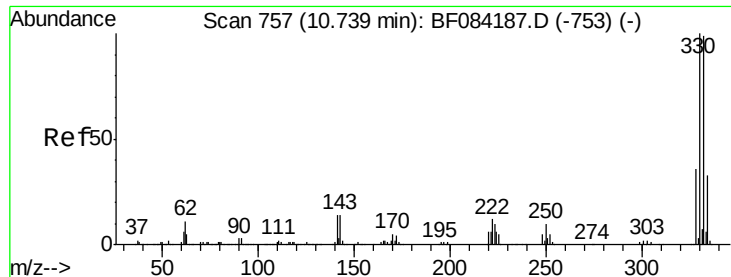
Tot Ion:113 Resp: 31962  
Ion Ratio Lower Upper  
113 100  
55 164.3 116.9 156.9#  
56 117.2 93.8 133.8



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.87 min Scan# 681  
Delta R.T. -0.08 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

Tgt Ion:164 Resp: 532776  
Ion Ratio Lower Upper  
164 100  
162 103.5 85.1 127.7  
160 48.3 37.5 56.3

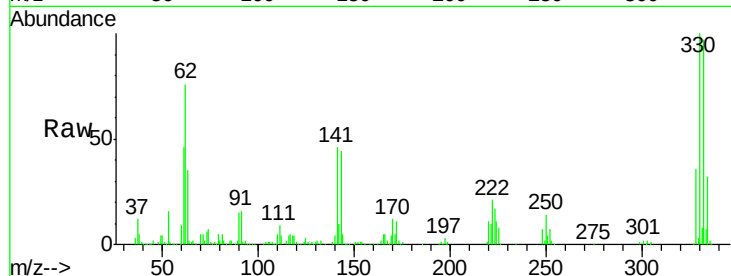




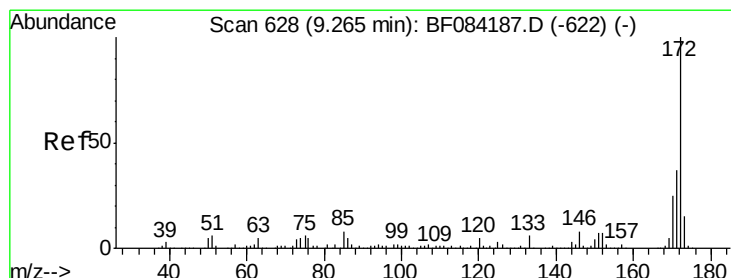
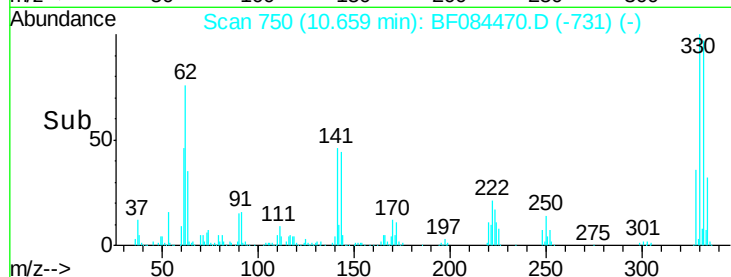
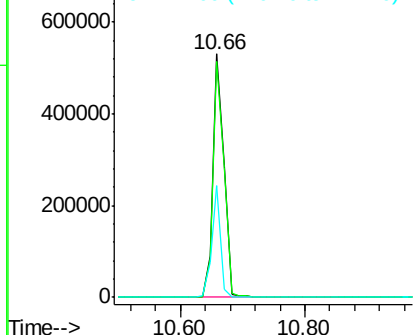
#41  
 2,4,6-Tribromophenol  
 Concen: 119.86 ng  
 RT: 10.66 min Scan# 750  
 Delta R.T. -0.08 min  
 Lab File: BF084470.D  
 Acq: 14 Jan 2016 5:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-3

Tot Ion:330 Resp: 644701  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 76.6 114.8  
 141 36.8 27.8 41.6

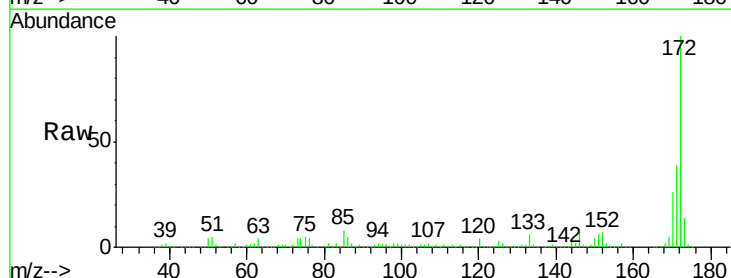


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

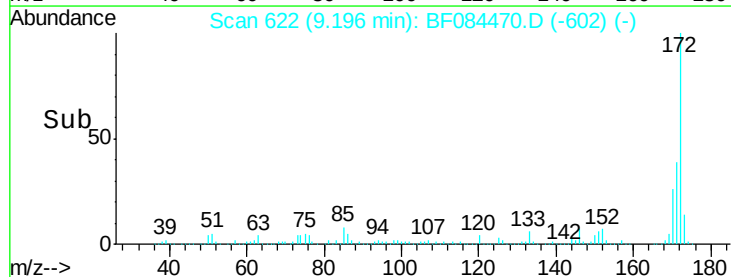
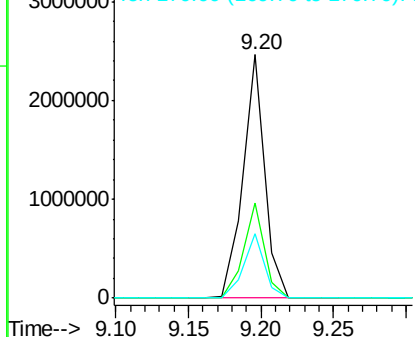


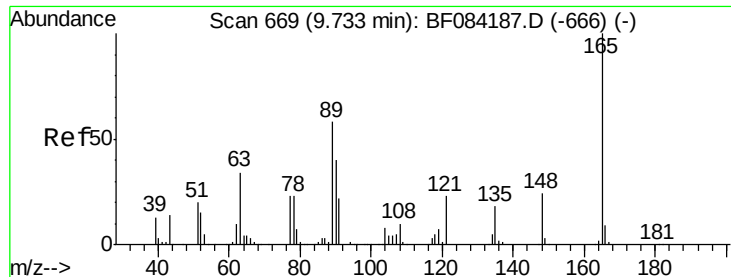
#44  
 2-Fluorobiphenyl  
 Concen: 84.66 ng  
 RT: 9.20 min Scan# 622  
 Delta R.T. -0.07 min  
 Lab File: BF084470.D  
 Acq: 14 Jan 2016 5:29

Tgt Ion:172 Resp: 2564744  
 Ion Ratio Lower Upper  
 172 100  
 171 38.9 28.9 43.3  
 170 26.3 18.6 27.8



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

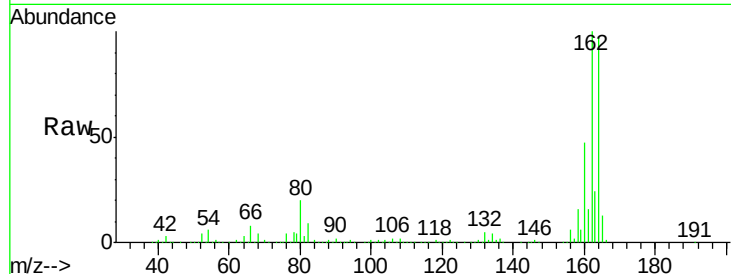




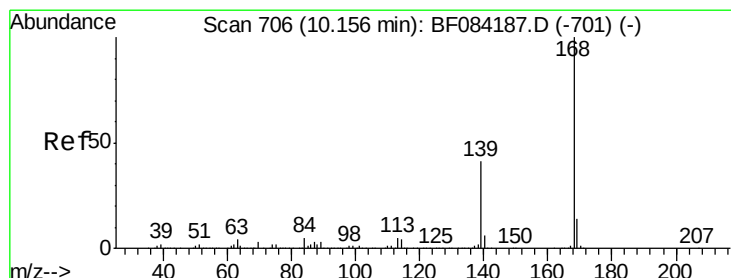
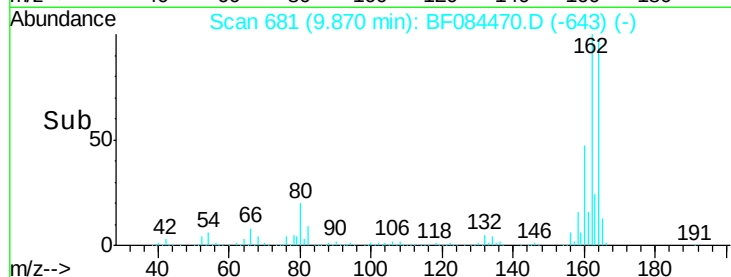
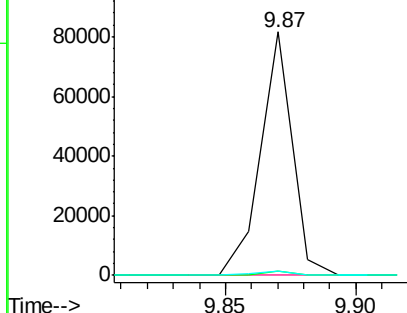
#50  
2,6-Dinitrotoluene  
Concen: 8.36 ng  
RT: 9.87 min Scan# 681  
Delta R.T. 0.14 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

Instrument :  
BNA\_F  
ClientSampleId :  
MW-3

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

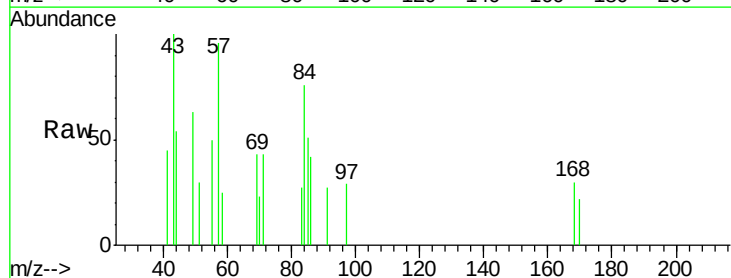


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

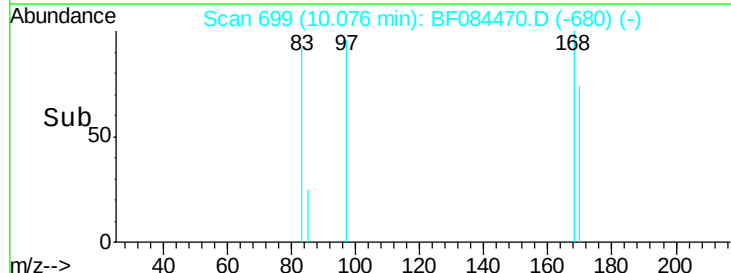
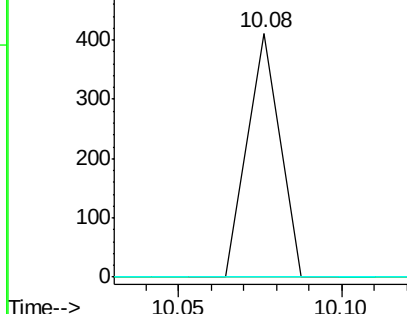


#54  
Dibenzofuran  
Concen: Below Cal  
RT: 10.08 min Scan# 699  
Delta R.T. -0.08 min  
Lab File: BF084470.D  
Acq: 14 Jan 2016 5:29

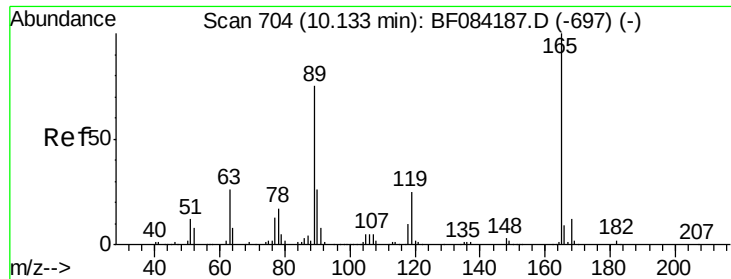
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 0.0   | 30.5  | 45.7# |
| 169     | 0.0   | 10.4  | 15.6# |



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



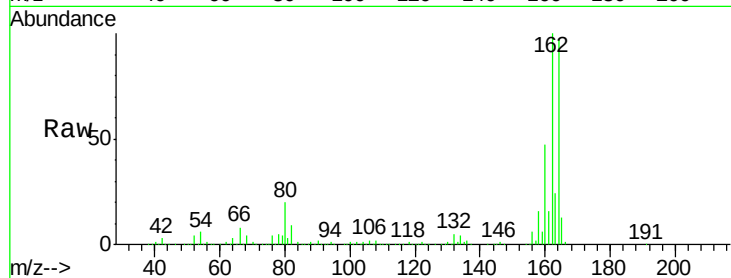




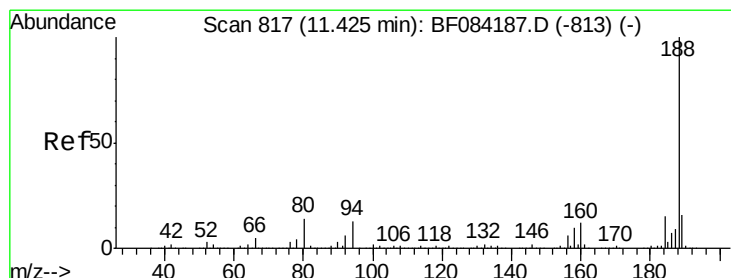
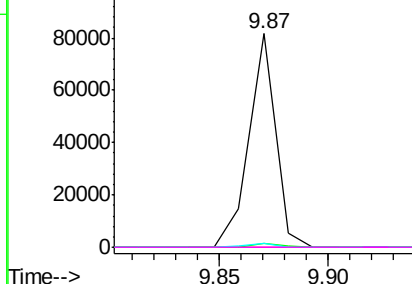
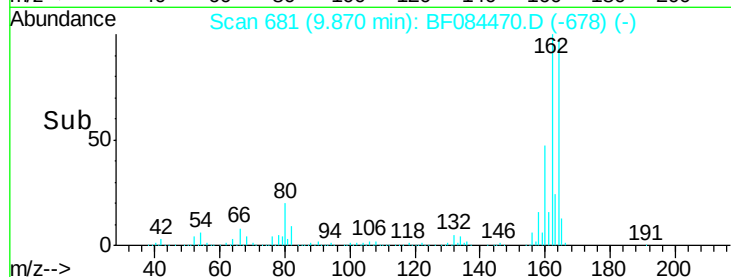
#56  
 2,4-Dinitrotoluene  
 Concen: 6.60 ng  
 RT: 9.87 min Scan# 681  
 Delta R.T. -0.26 min  
 Lab File: BF084470.D  
 Acq: 14 Jan 2016 5:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-3

Tot Ion:165 Resp: 69811  
 Ion Ratio Lower Upper  
 165 100  
 63 1.7 36.7 55.1#  
 89 1.7 61.9 92.9#  
 182 0.0 2.0 3.0#

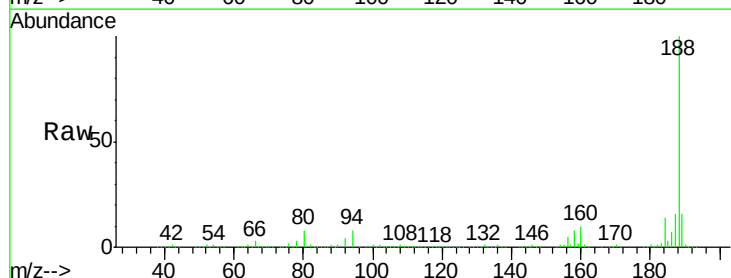


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

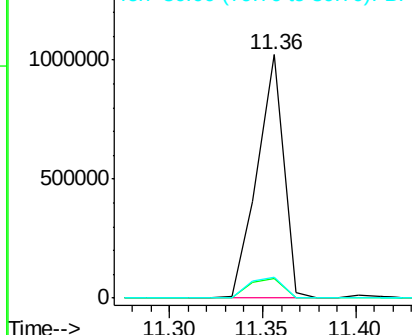
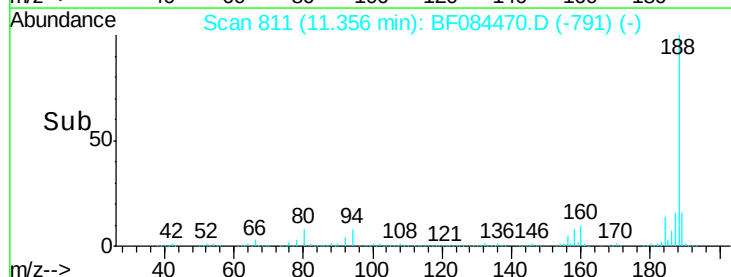


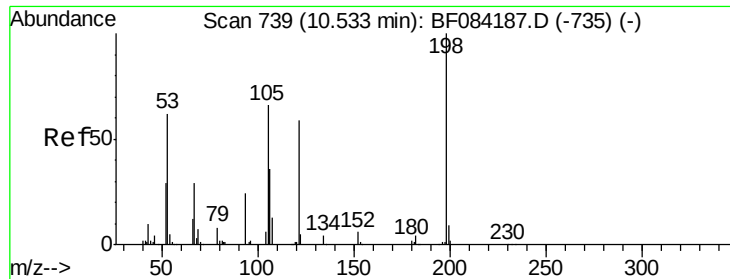
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.36 min Scan# 811  
 Delta R.T. -0.07 min  
 Lab File: BF084470.D  
 Acq: 14 Jan 2016 5:29

Tgt Ion:188 Resp: 1004817  
 Ion Ratio Lower Upper  
 188 100  
 94 8.0 9.0 13.4#  
 80 8.4 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: 6.56 ng

RT: 10.66 min Scan# 750

Delta R.T. 0.13 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

Instrument :

BNA\_F

ClientSampleId :

MW-3

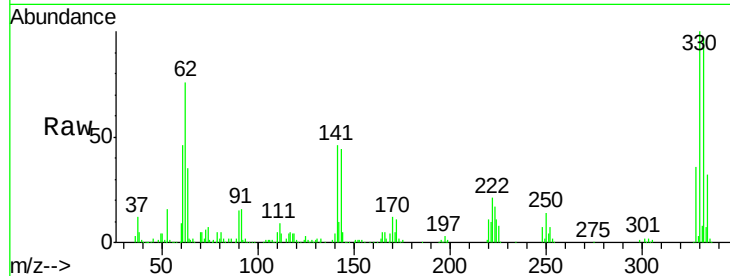
Tot Ion:198 Resp: 1141

Ion Ratio Lower Upper

198 100

51 261.3 18.9 58.9#

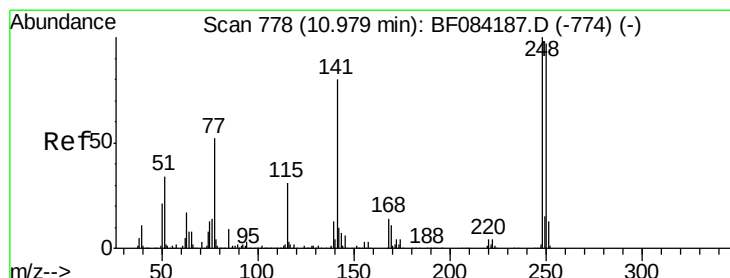
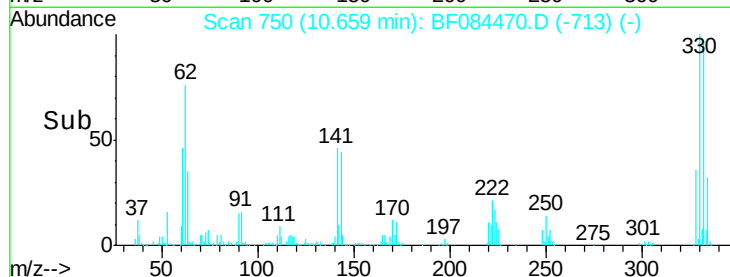
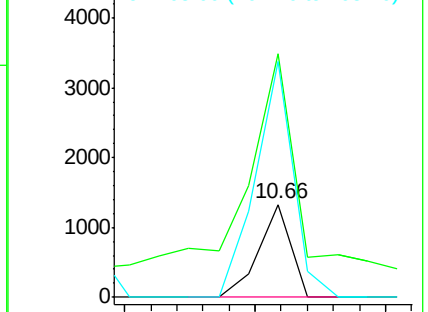
105 253.5 26.4 66.4#



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: 3.68 ng

RT: 10.66 min Scan# 750

Delta R.T. -0.32 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

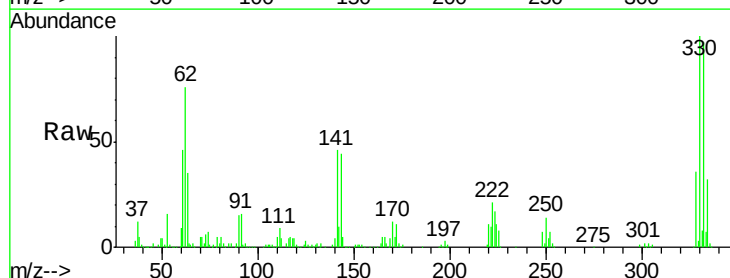
Tgt Ion:248 Resp: 39762

Ion Ratio Lower Upper

248 100

250 193.5 78.4 117.6#

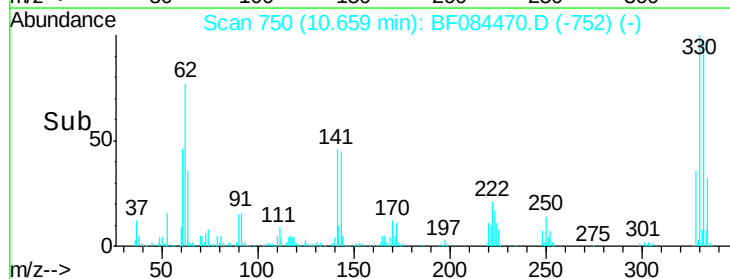
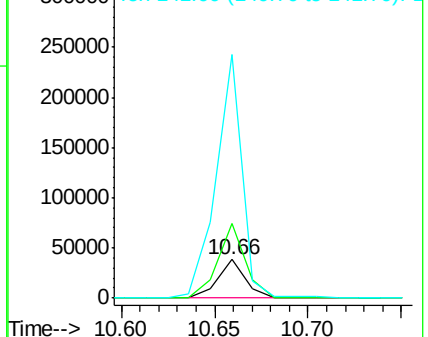
141 630.9 44.0 66.0#

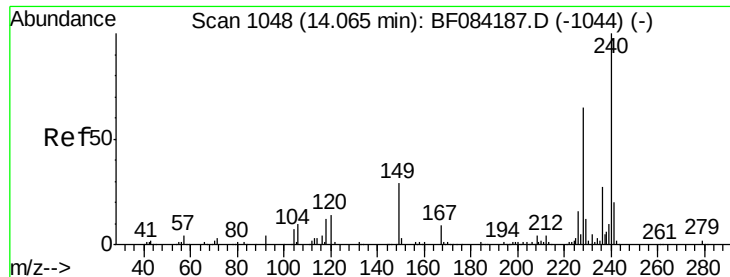


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.98 min Scan# 1041

Delta R.T. -0.08 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

Instrument :

BNA\_F

ClientSampleId :

MW-3

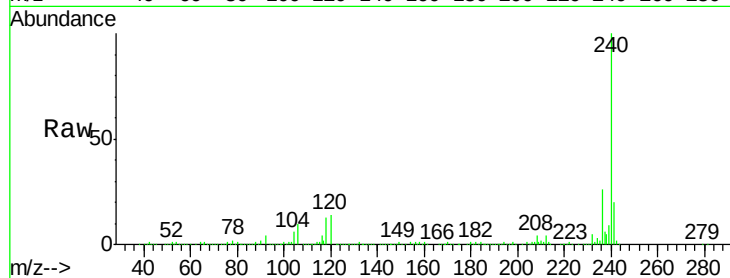
Tot Ion:240 Resp: 820188

Ion Ratio Lower Upper

240 100

120 14.3 9.5 14.3#

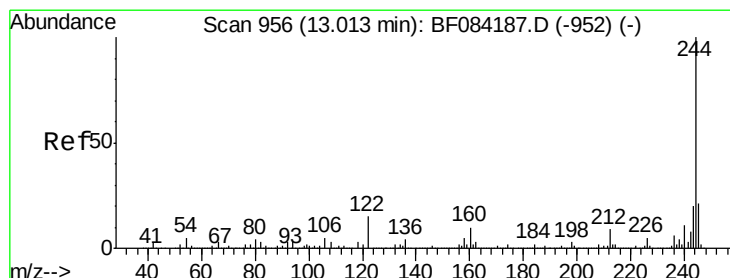
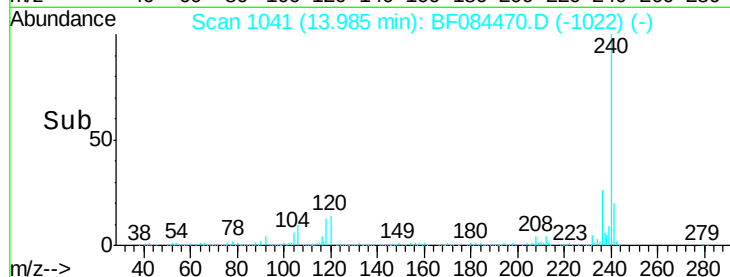
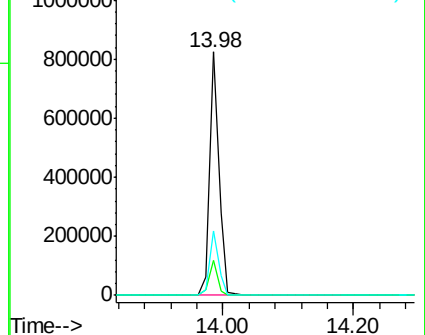
236 26.3 20.6 31.0



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



#78

Terphenyl-d14

Concen: 67.66 ng

RT: 12.94 min Scan# 950

Delta R.T. -0.07 min

Lab File: BF084470.D

Acq: 14 Jan 2016 5:29

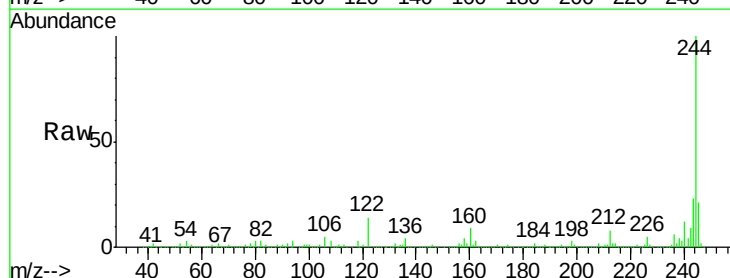
Tgt Ion:244 Resp: 2486043

Ion Ratio Lower Upper

244 100

212 8.2 5.7 8.5

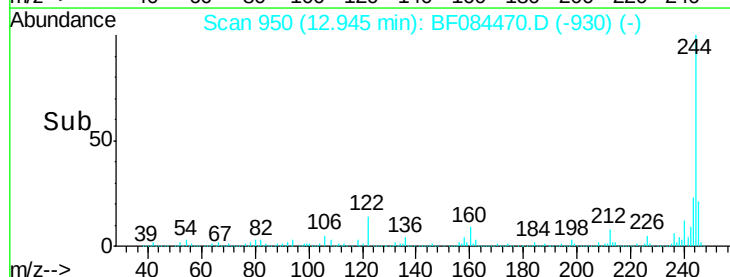
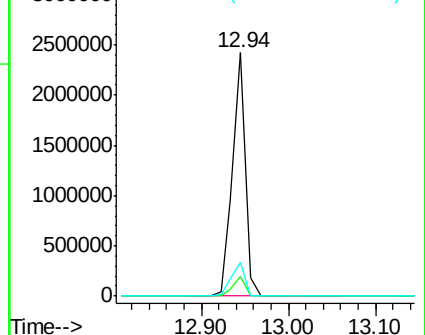
122 13.7 7.4 11.0#

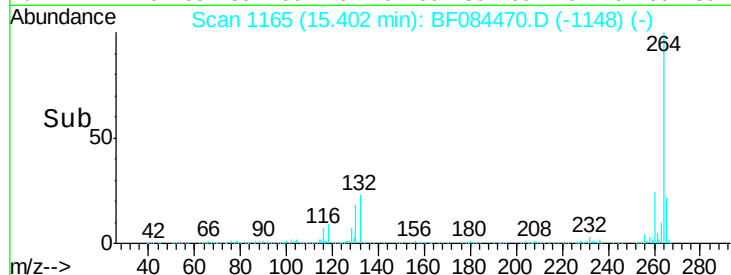
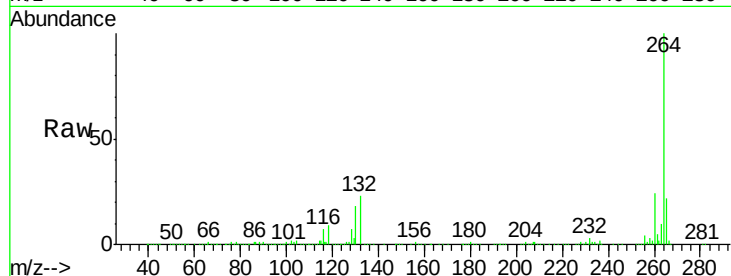
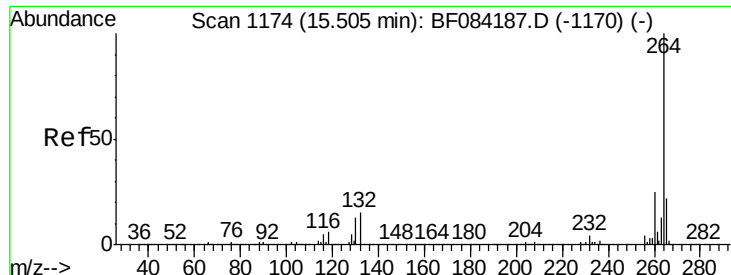


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.40 min Scan# 1165  
 Delta R.T. -0.10 min  
 Lab File: BF084470.D  
 Acq: 14 Jan 2016 5:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-3

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 601004 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.6  | 19.4  | 29.2   |
| 265      | 21.9  | 17.8  | 26.6   |

