

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040716\  
 Data File : BF086140.D  
 Acq On : 7 Apr 2016 20:05  
 Operator : UM/SJ  
 Sample : H2230-08  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-9-040116

Quant Time: Apr 08 01:42:21 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 01 23:17:06 2016  
 Response via : Initial Calibration

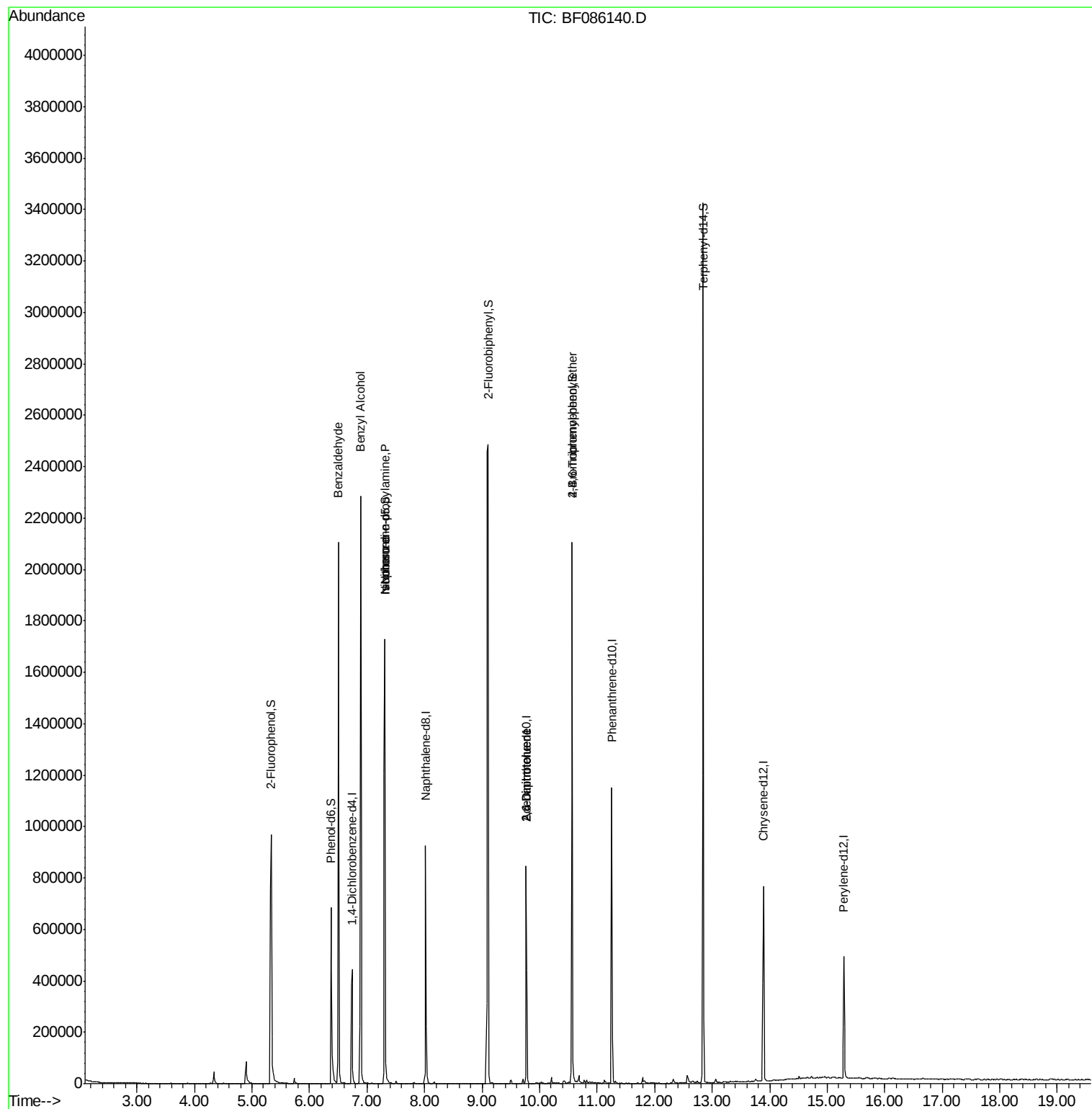
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 105165   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.02  | 136  | 431834   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 193881   | 20.00  | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 395248   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.89 | 240  | 300089   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.29 | 264  | 206783   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 456325   | 74.17  | ng    | -0.03    |
| 7) Phenol-d6                   | 6.37  | 99   | 367219   | 46.99  | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 783212   | 106.96 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 325425   | 178.83 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.10  | 172  | 1276606  | 109.48 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.84 | 244  | 1118663  | 87.63  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.50  | 77   | 15514    | 3.69   | ng    | # 78     |
| 15) Benzyl Alcohol             | 6.89  | 79   | 10421    | 2.06   | ng    | # 47     |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 100261   | 20.70  | ng    | # 75     |
| 25) Isophorone                 | 7.31  | 82   | 773359   | 53.50  | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 24440    | 8.04   | ng    | # 17     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 24441    | 6.36   | ng    | # 35     |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 21251    | 5.27   | ng    | # 1      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Instrument :

BNA\_F

ClientSampleId :

MW-9-040116

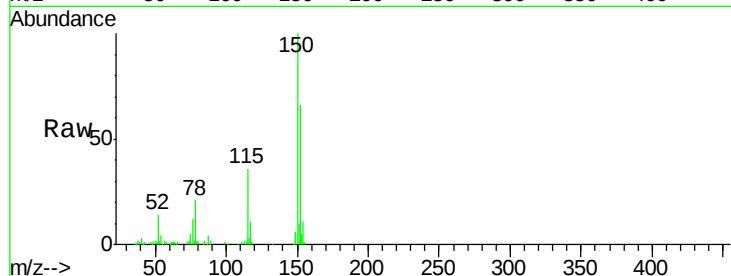
Tgt Ion:152 Resp: 105165

Ion Ratio Lower Upper

152 100

150 152.4 124.2 186.2

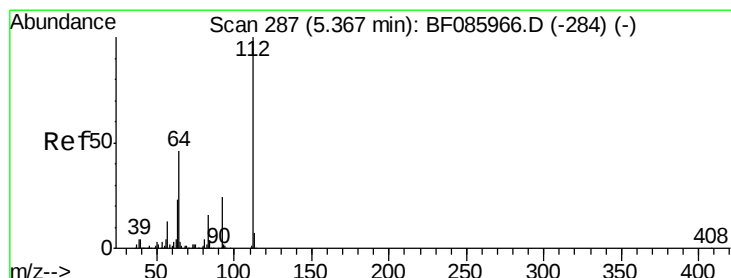
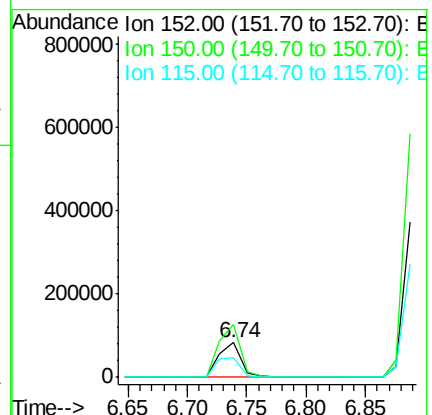
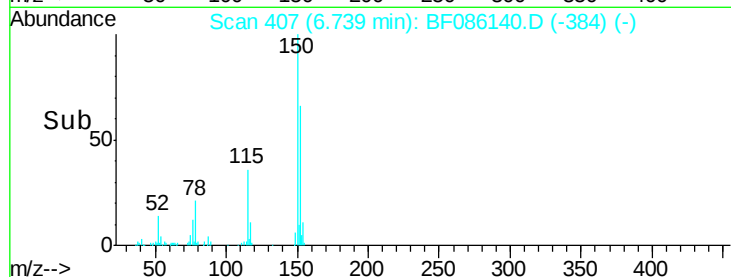
115 55.1 47.0 70.6



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: 74.17 ng

RT: 5.33 min Scan# 284

Delta R.T. -0.03 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

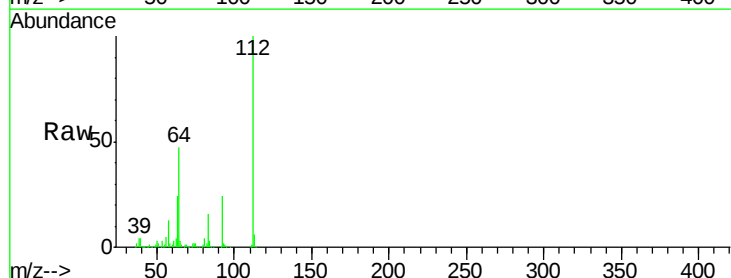
Tgt Ion:112 Resp: 456325

Ion Ratio Lower Upper

112 100

64 47.0 39.9 59.9

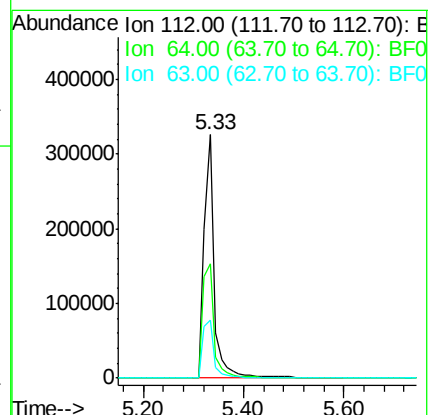
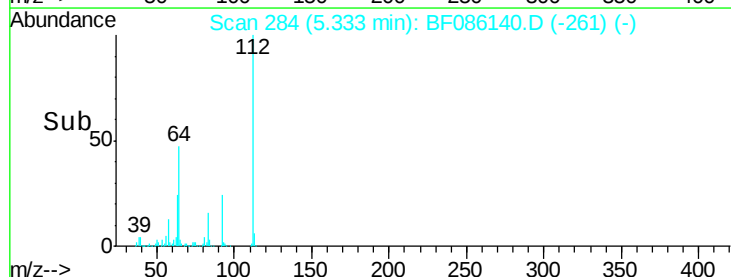
63 23.7 20.2 30.2



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: 46.99 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.05 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Instrument :

BNA\_F

ClientSampleId :

MW-9-040116

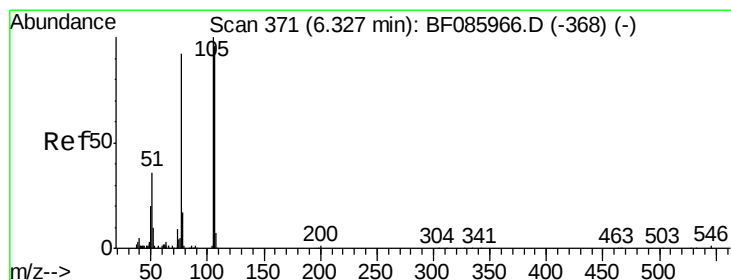
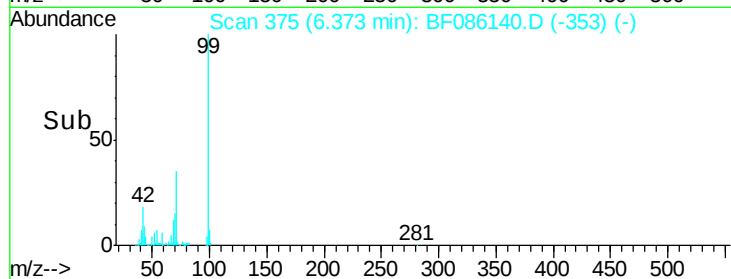
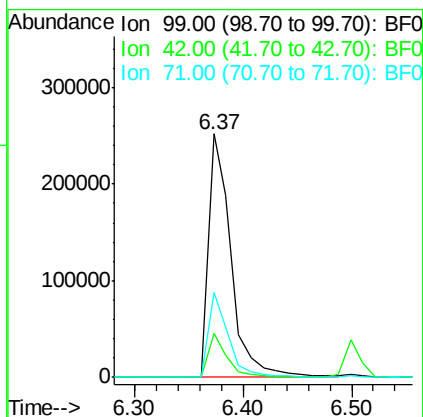
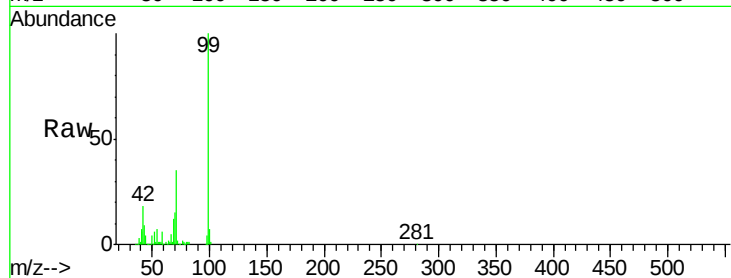
Tgt Ion: 99 Resp: 367219

Ion Ratio Lower Upper

99 100

42 17.9 11.1 16.7#

71 34.6 24.9 37.3



#9

Benzaldehyde

Concen: 3.69 ng

RT: 6.50 min Scan# 386

Delta R.T. 0.17 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

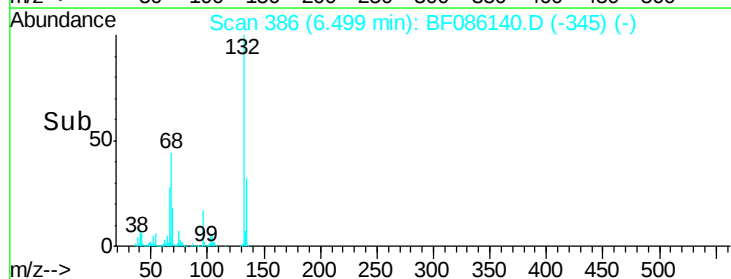
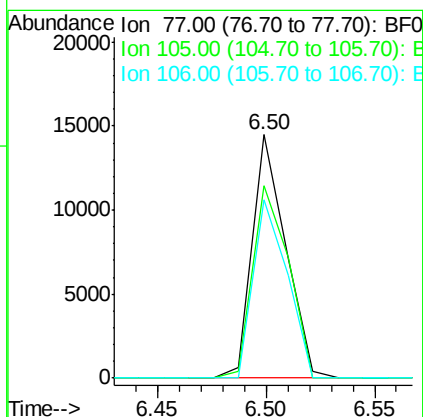
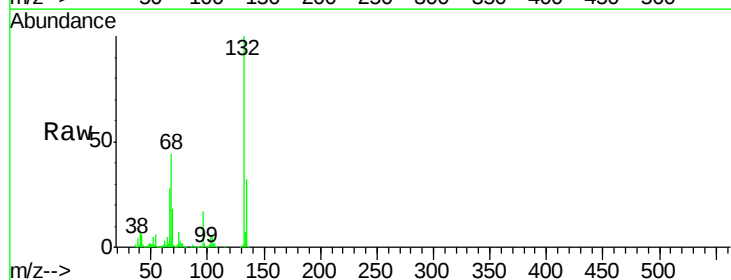
Tgt Ion: 77 Resp: 15514

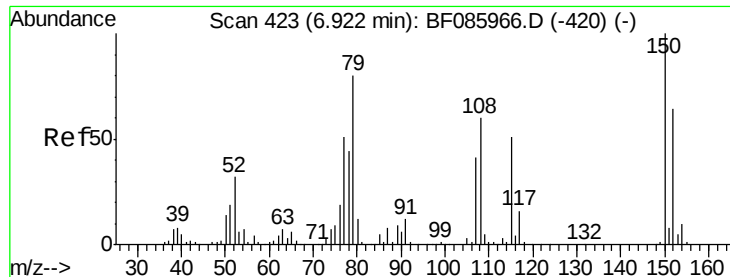
Ion Ratio Lower Upper

77 100

105 78.9 80.1 120.1#

106 73.0 75.0 115.0#

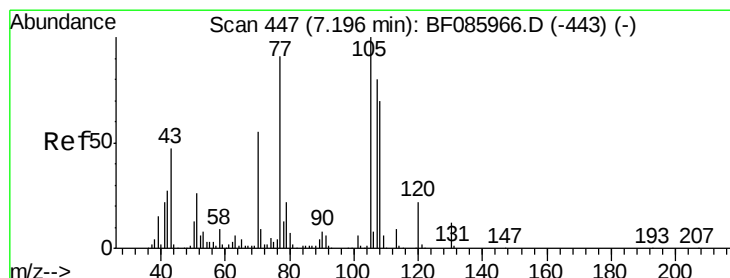
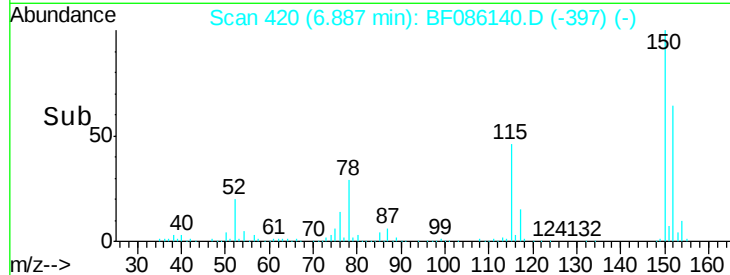
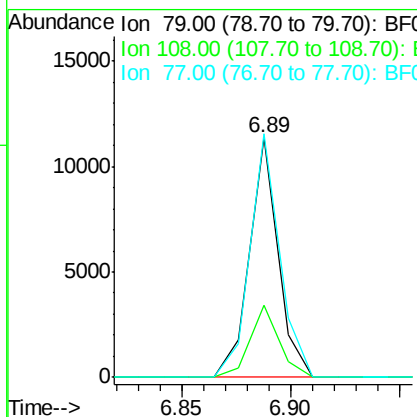
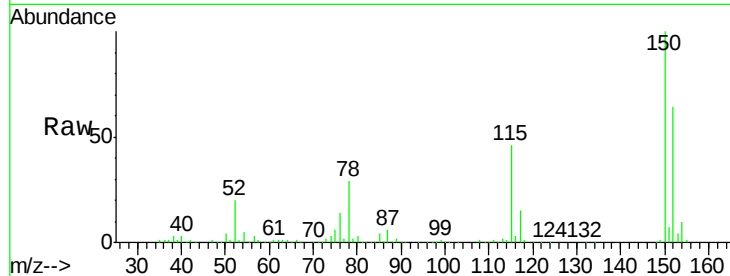




#15  
Benzyl Alcohol  
Concen: 2.06 ng  
RT: 6.89 min Scan# 420  
Delta R.T. -0.03 min  
Lab File: BF086140.D  
Acq: 7 Apr 2016 20:05

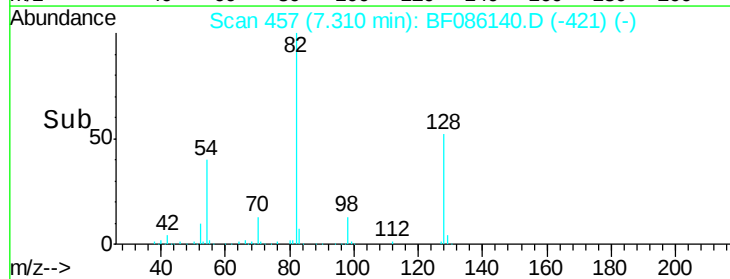
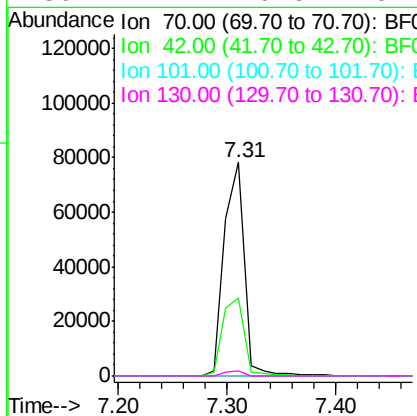
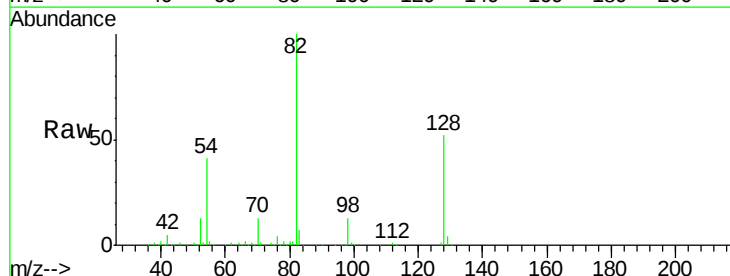
Instrument :  
BNA\_F  
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MW-9-040116

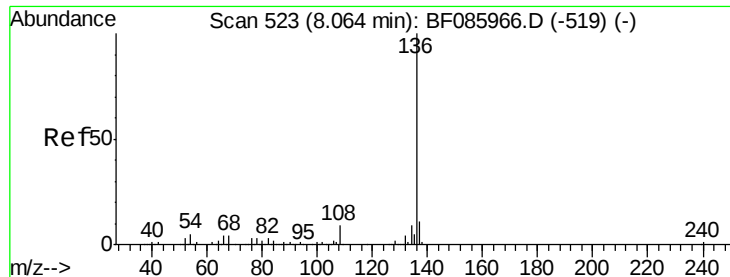
Tgt Ion: 79 Resp: 10421  
Ion Ratio Lower Upper  
79 100  
108 30.2 61.8 92.6#  
77 101.7 49.6 74.4#



#19  
n-Nitroso-di-n-propylamine  
Concen: 20.70 ng  
RT: 7.31 min Scan# 457  
Delta R.T. 0.11 min  
Lab File: BF086140.D  
Acq: 7 Apr 2016 20:05

Tgt Ion: 70 Resp: 100261  
Ion Ratio Lower Upper  
70 100  
42 36.7 37.1 55.7#  
101 0.0 8.6 12.8#  
130 2.7 19.6 29.4#

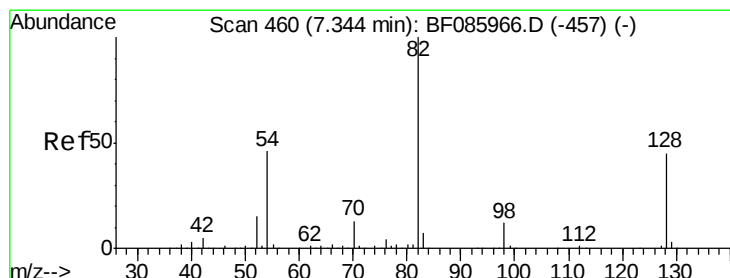
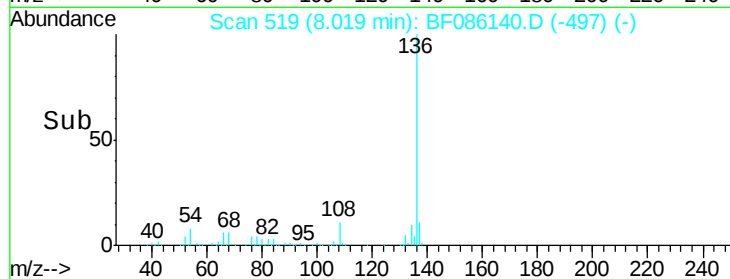
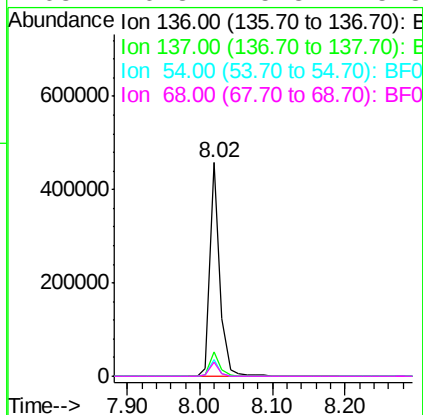
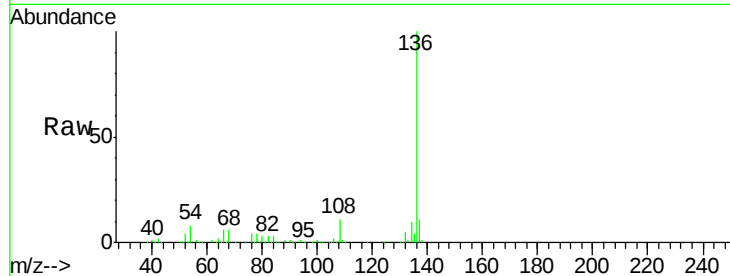




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.02 min Scan# 519  
Delta R.T. -0.05 min  
Lab File: BF086140.D  
Acq: 7 Apr 2016 20:05

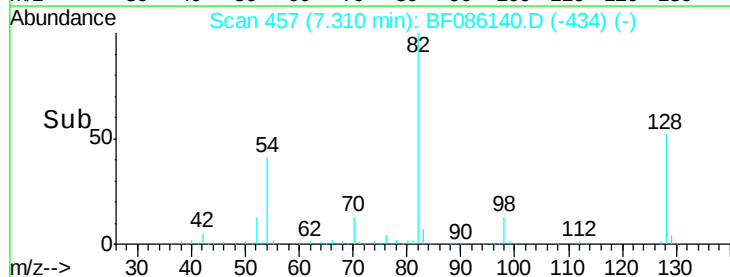
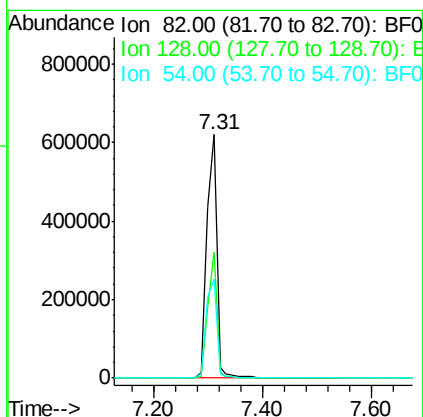
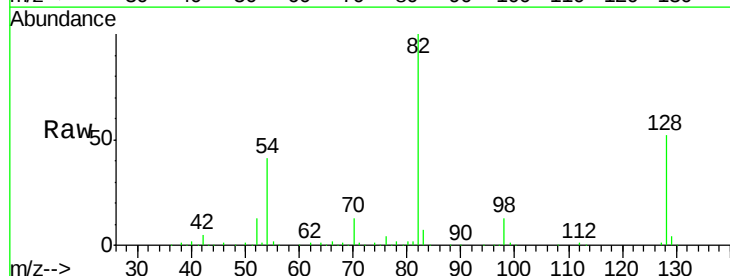
Instrument :  
BNA\_F  
ClientSampleId :  
MW-9-040116

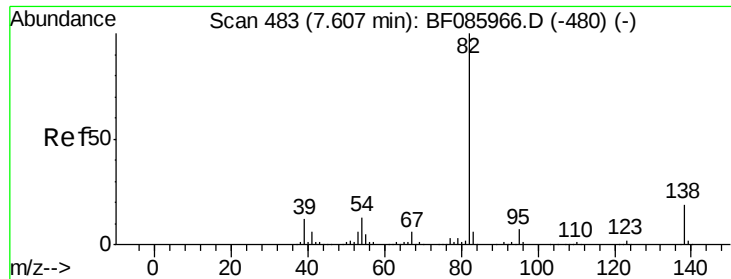
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 431834 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.1   | 13.7   |
| 54       | 7.8   | 7.4   | 11.0   |
| 68       | 6.3   | 5.8   | 8.8    |



#23  
Nitrobenzene-d5  
Concen: 106.96 ng  
RT: 7.31 min Scan# 457  
Delta R.T. -0.03 min  
Lab File: BF086140.D  
Acq: 7 Apr 2016 20:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 783212 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 51.8  | 41.8  | 62.8   |
| 54       | 40.6  | 33.4  | 50.0   |





#25

Isophorone

Concen: 53.50 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.30 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Instrument :

BNA\_F

ClientSampleId :

MW-9-040116

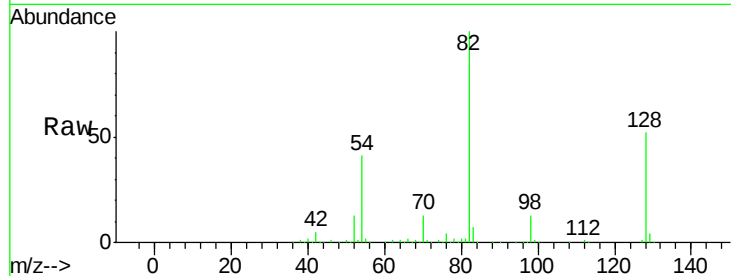
Tgt Ion: 82 Resp: 773359

Ion Ratio Lower Upper

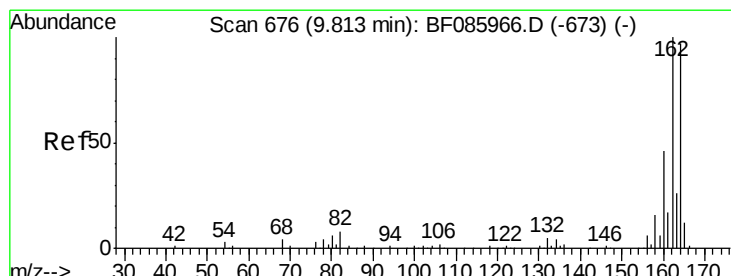
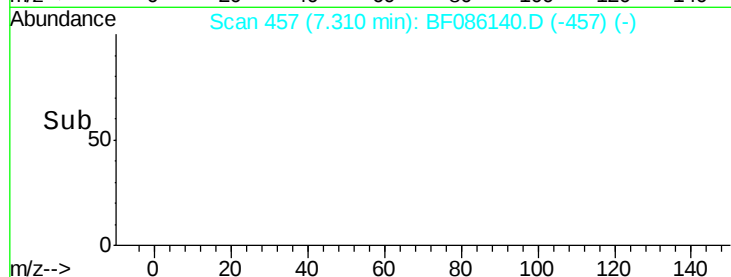
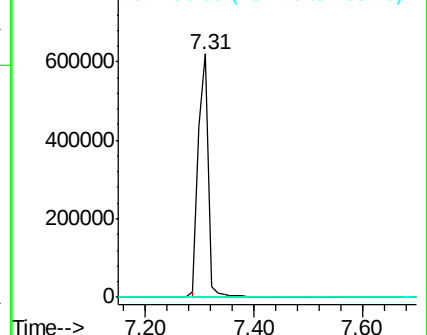
82 100

95 0.0 5.4 8.2#

138 0.0 12.9 19.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

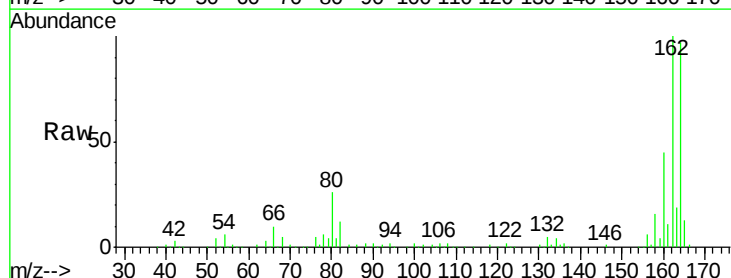
Tgt Ion: 164 Resp: 193881

Ion Ratio Lower Upper

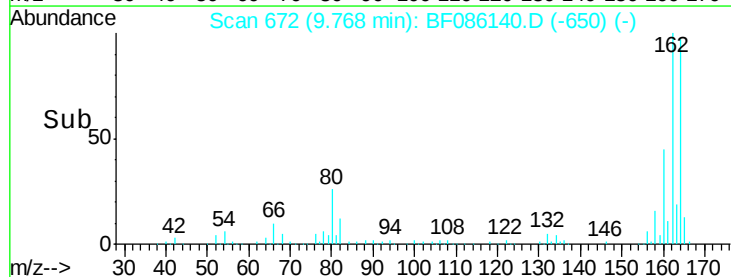
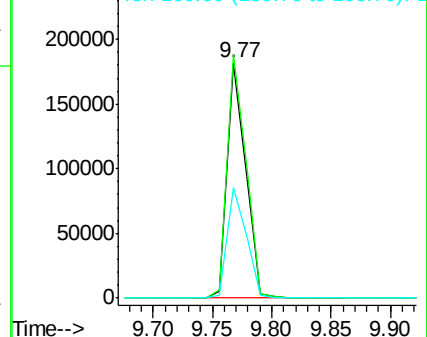
164 100

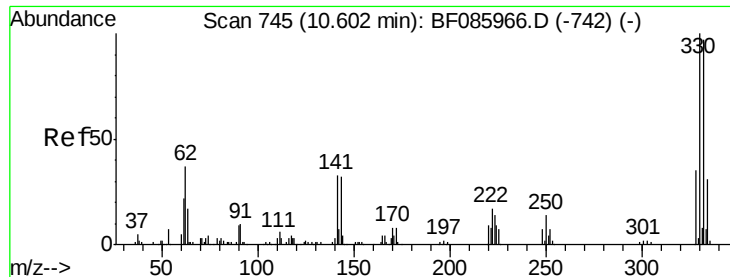
162 103.5 82.1 123.1

160 46.9 37.4 56.2



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

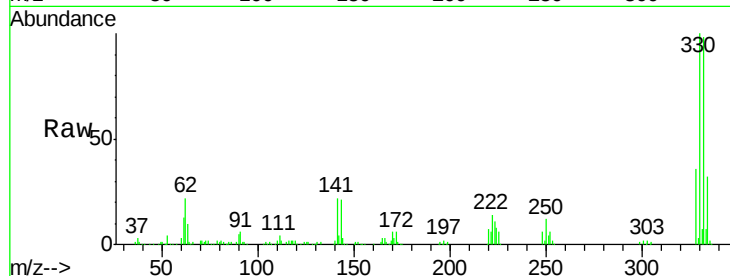




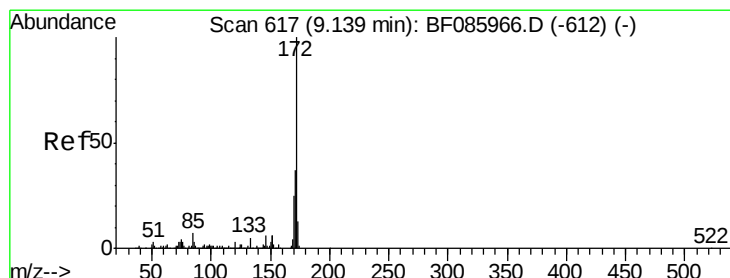
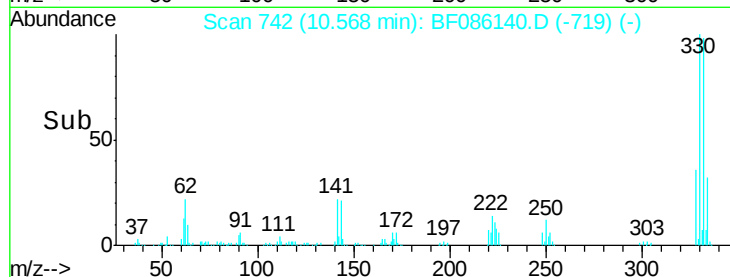
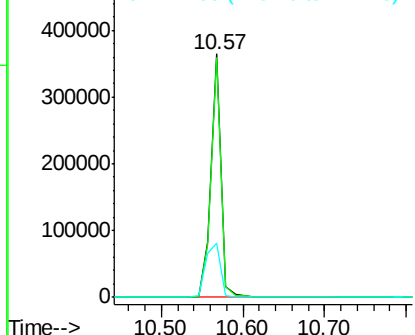
#41  
 2,4,6-Tribromophenol  
 Concen: 178.83 ng  
 RT: 10.57 min Scan# 742  
 Delta R.T. -0.03 min  
 Lab File: BF086140.D  
 Acq: 7 Apr 2016 20:05

Instrument :  
 BNA\_F  
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 MW-9-040116

Tgt Ion:330 Resp: 325425  
 Ion Ratio Lower Upper  
 330 100  
 332 97.6 78.2 117.2  
 141 33.1 31.5 47.3

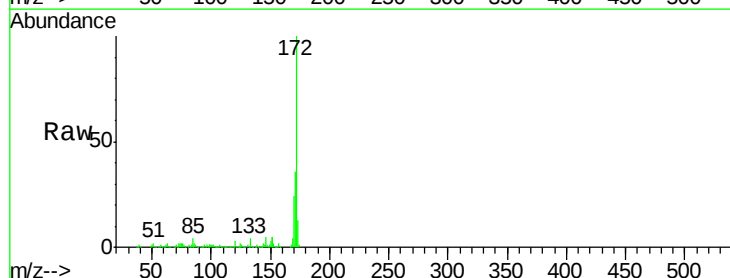


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

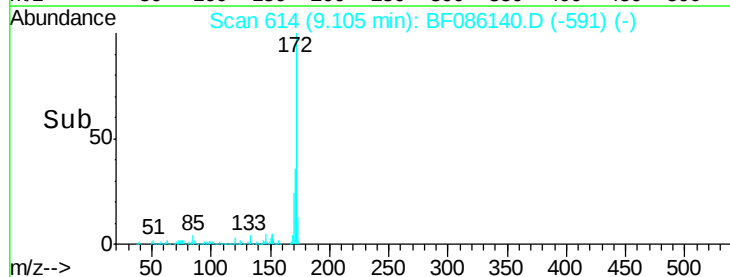
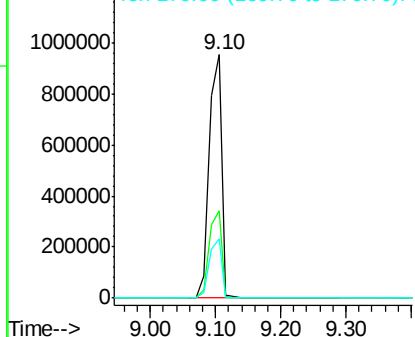


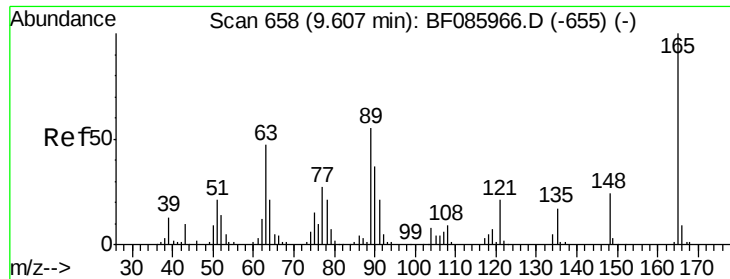
#44  
 2-Fluorobiphenyl  
 Concen: 109.48 ng  
 RT: 9.10 min Scan# 614  
 Delta R.T. -0.03 min  
 Lab File: BF086140.D  
 Acq: 7 Apr 2016 20:05

Tgt Ion:172 Resp: 1276606  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.4 44.2  
 170 24.2 19.8 29.6



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: 8.04 ng

RT: 9.77 min Scan# 672

Delta R.T. 0.16 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Instrument :

BNA\_F

ClientSampleId :

MW-9-040116

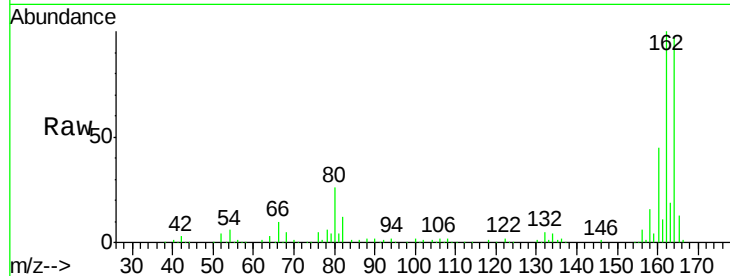
Tgt Ion:165 Resp: 24440

Ion Ratio Lower Upper

165 100

63 0.0 51.8 77.8#

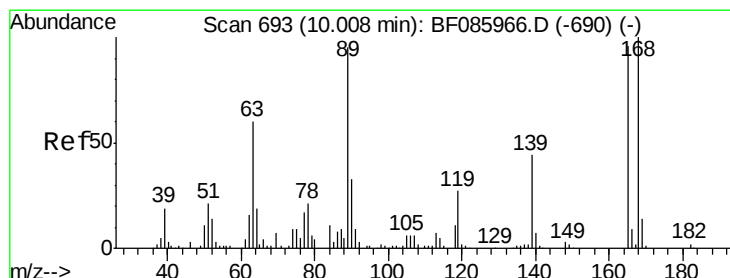
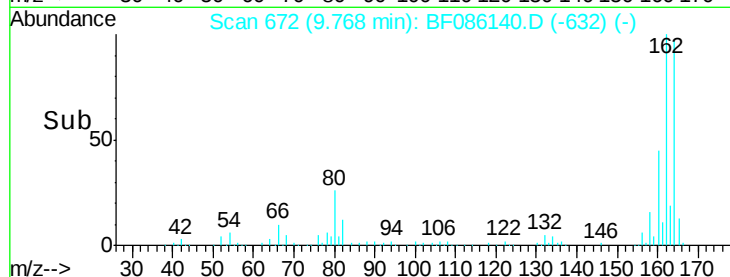
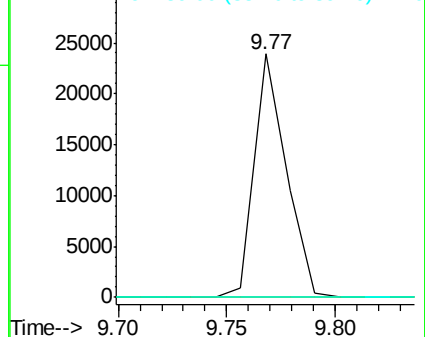
89 0.0 53.7 80.5#



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



#56

2,4-Dinitrotoluene

Concen: 6.36 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.24 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Tgt Ion:165 Resp: 24441

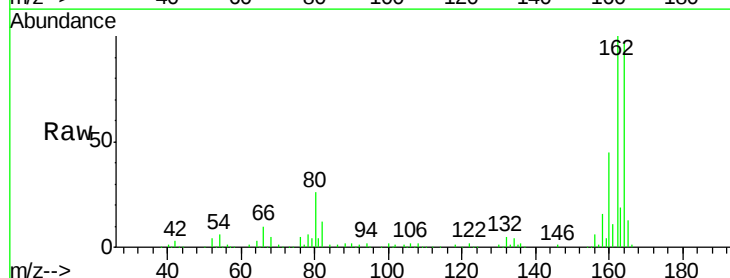
Ion Ratio Lower Upper

165 100

63 0.0 24.9 37.3#

89 0.0 41.0 61.6#

182 0.0 2.1 3.1#

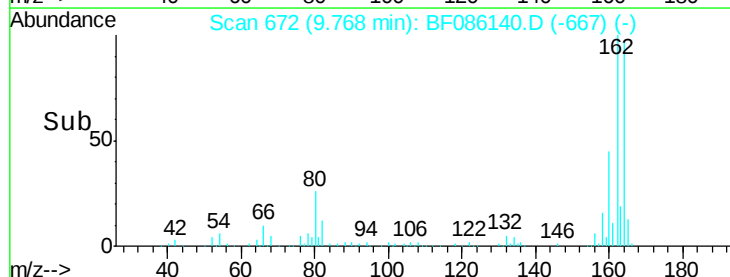
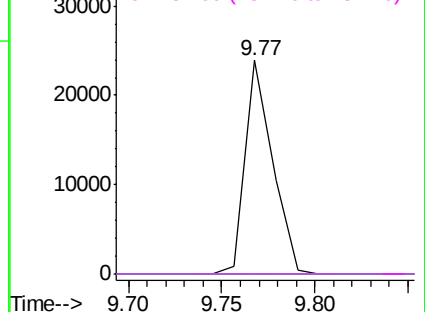


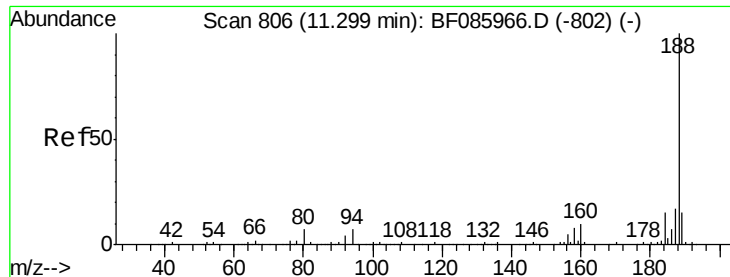
Abundance Ion 165.00 (164.70 to 165.70): E

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

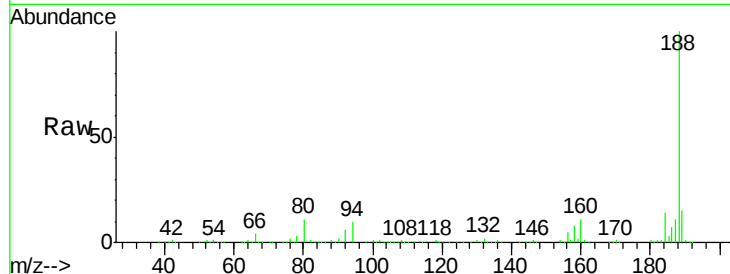




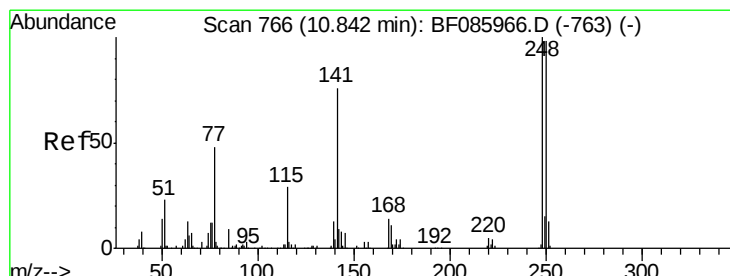
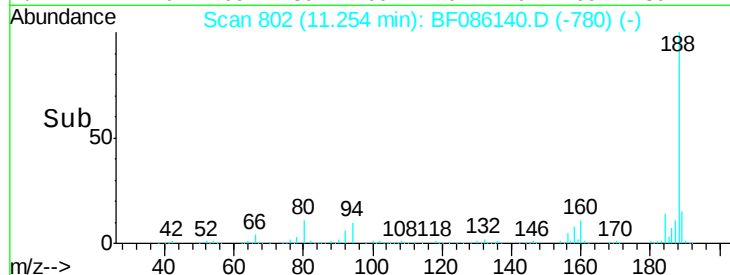
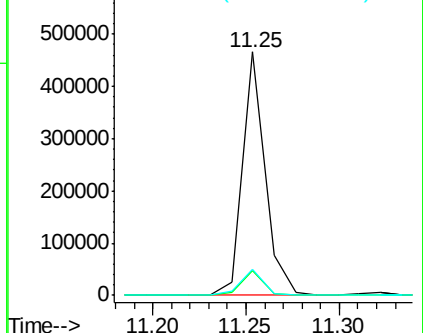
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.25 min Scan# 802  
 Delta R.T. -0.05 min  
 Lab File: BF086140.D  
 Acq: 7 Apr 2016 20:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-9-040116

Tgt Ion:188 Resp: 395248  
 Ion Ratio Lower Upper  
 188 100  
 94 10.4 5.4 8.0#  
 80 10.8 5.5 8.3#

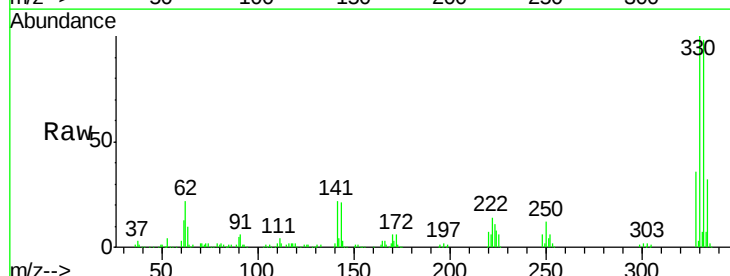


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

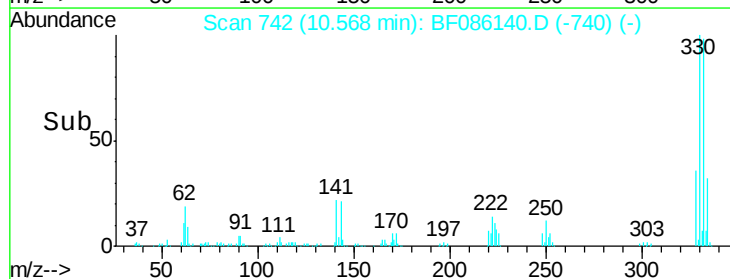
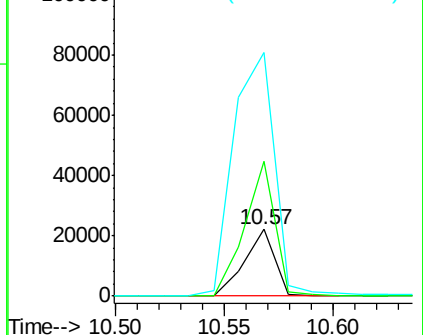


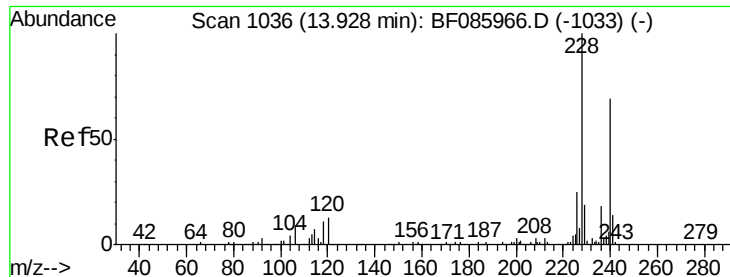
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.27 ng  
 RT: 10.57 min Scan# 742  
 Delta R.T. -0.27 min  
 Lab File: BF086140.D  
 Acq: 7 Apr 2016 20:05

Tgt Ion:248 Resp: 21251  
 Ion Ratio Lower Upper  
 248 100  
 250 201.0 77.4 116.0#  
 141 364.6 63.6 95.4#



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: 13.89 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

Instrument :

BNA\_F

ClientSampleId :

MW-9-040116

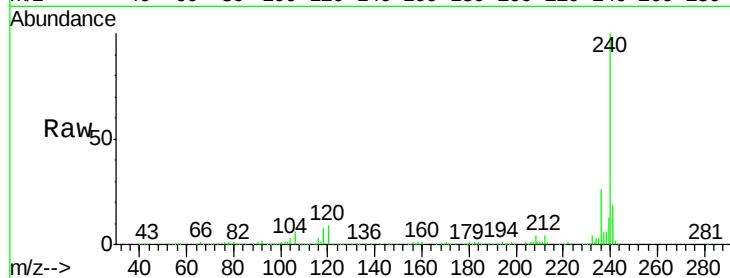
Tgt Ion:240 Resp: 300089

Ion Ratio Lower Upper

240 100

120 9.4 13.8 20.8#

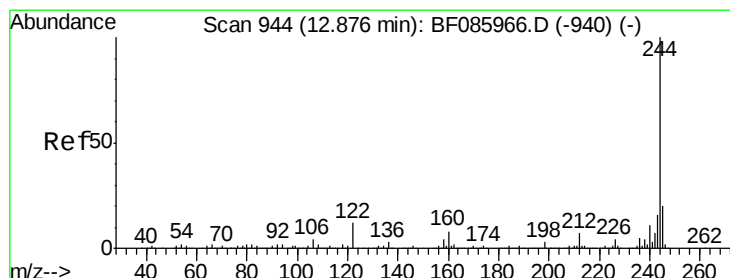
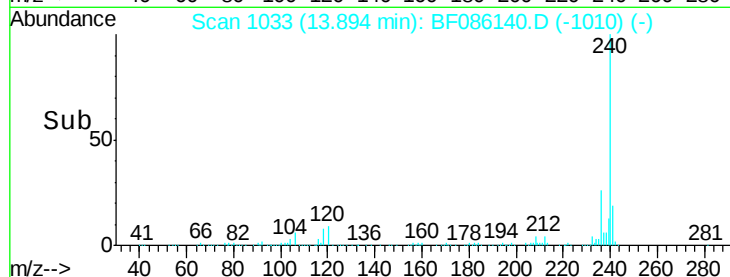
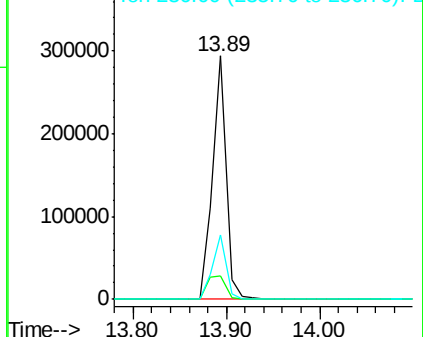
236 26.5 20.6 30.8



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: 87.63 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086140.D

Acq: 7 Apr 2016 20:05

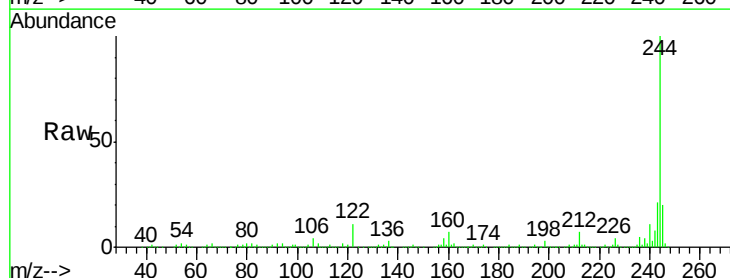
Tgt Ion:244 Resp: 1118663

Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

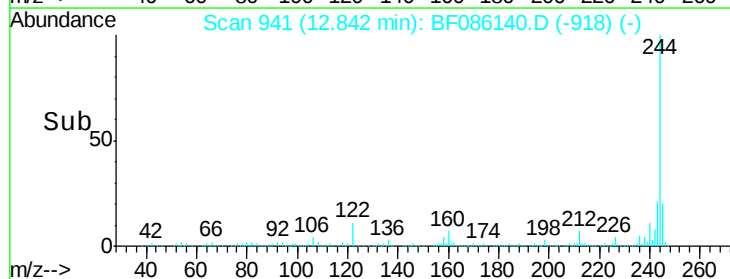
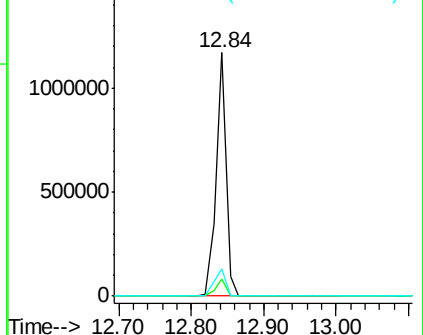
122 11.3 10.2 15.4

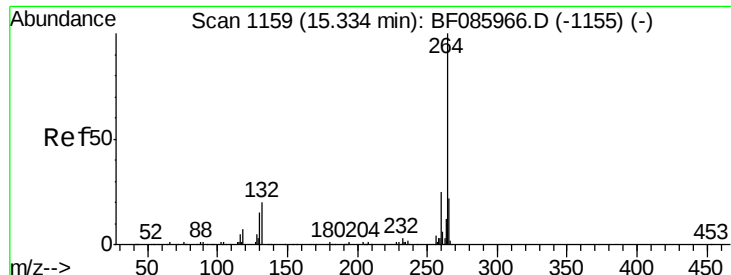


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

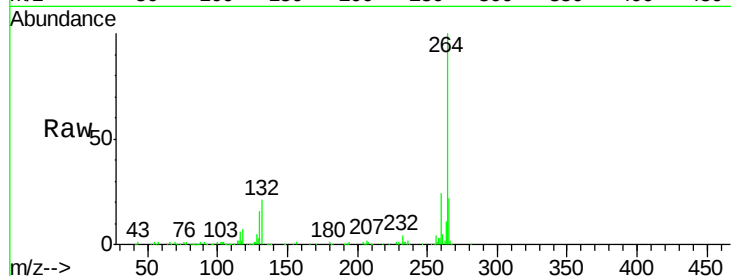




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.05 min  
Lab File: BF086140.D  
Acq: 7 Apr 2016 20:05

Instrument :  
BNA\_F  
ClientSampleId :  
MW-9-040116

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.4  | 29.2  |
| 265     | 21.7  | 17.2  | 25.8  |



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

