

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040716\  
 Data File : BF086133.D  
 Acq On : 7 Apr 2016 15:45  
 Operator : UM/SJ  
 Sample : H2230-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-2-040116

Quant Time: Apr 08 01:39:51 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  | 112417   | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 8.02  | 136  | 453907   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.77  | 164  | 208611   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.25 | 188  | 388454   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 13.89 | 240  | 311640   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 15.29 | 264  | 218620   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 509780   | 77.51  | ng    | -0.03    |
| 7) Phenol-d6                | 6.37  | 99   | 406715   | 48.69  | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 830482   | 107.90 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 312040   | 159.37 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.10  | 172  | 1400798  | 111.65 | ng    | -0.03    |
| 78) Terphenyl-d14           | 12.84 | 244  | 1119760  | 84.46  | ng    | -0.03    |

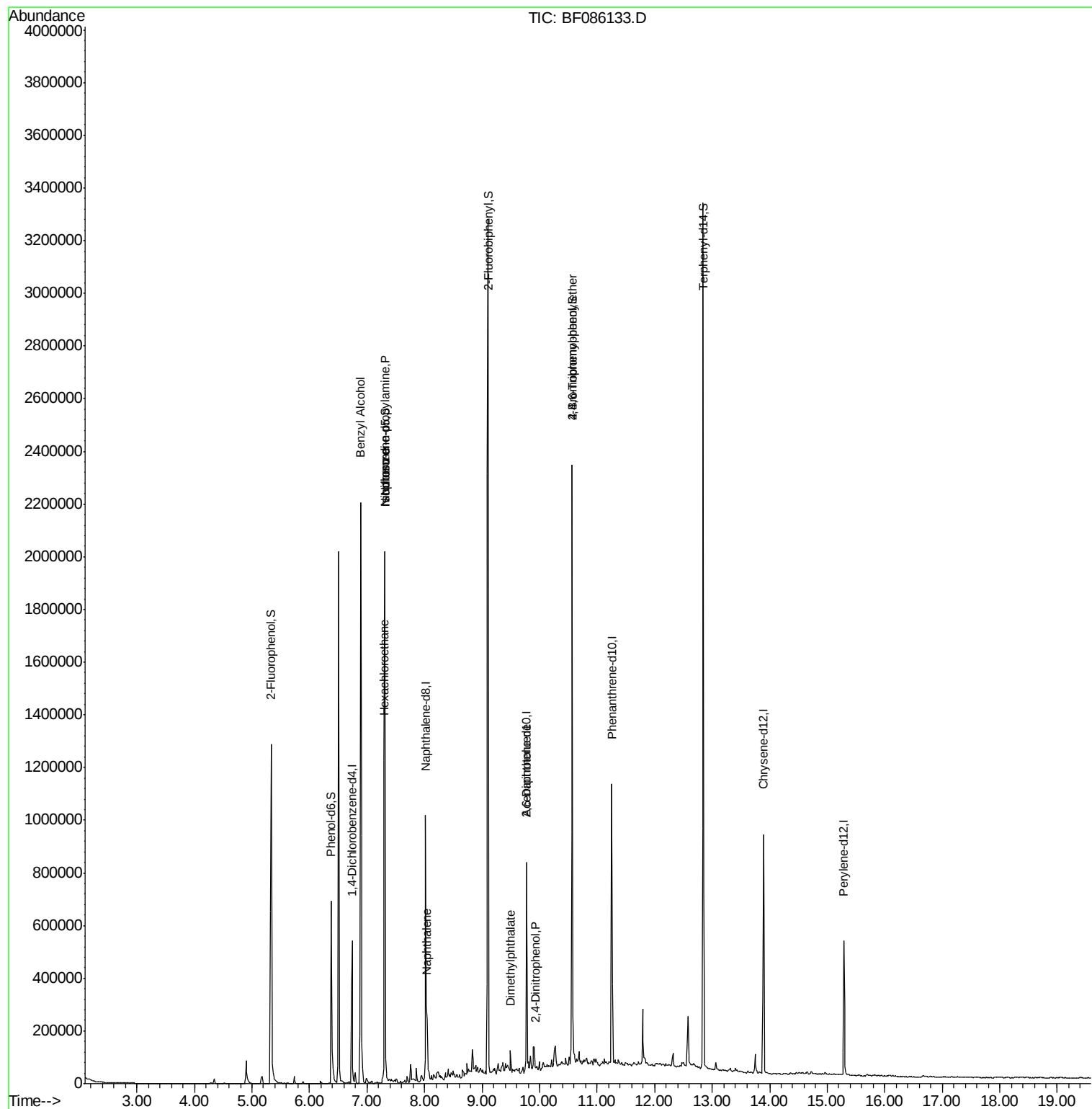
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 6.89  | 79   | 11295    | 2.09  | ng    | # 47   |
| 18) Hexachloroethane           | 7.30  | 117  | 23599    | 7.49  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 110100   | 21.26 | ng    | # 77   |
| 25) Isophorone                 | 7.31  | 82   | 810880   | 53.37 | ng    | # 68   |
| 31) Naphthalene                | 8.04  | 128  | 101688   | 4.45  | ng    | 100    |
| 49) Dimethylphthalate          | 9.49  | 163  | 33589    | 2.17  | ng    | 97     |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 27043    | 8.27  | ng    | # 20   |
| 53) 2,4-Dinitrophenol          | 9.93  | 184  | 272      | 2.15  | ng    | # 48   |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 21103    | 5.32  | ng    | # 1    |

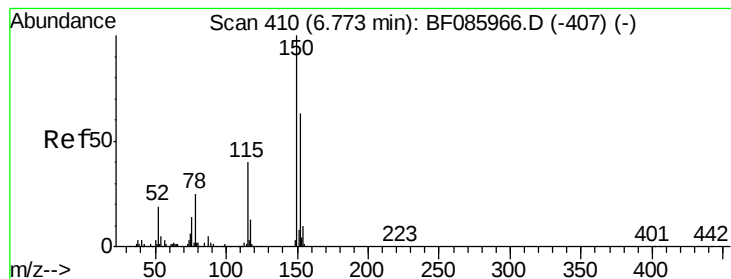
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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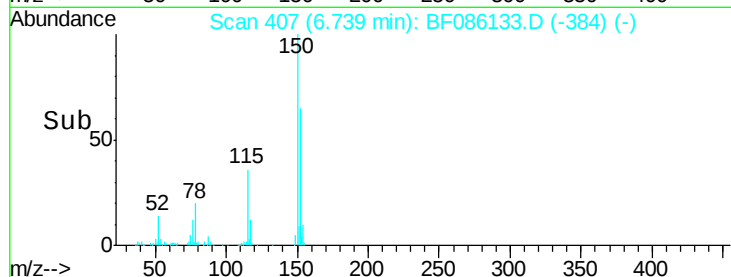
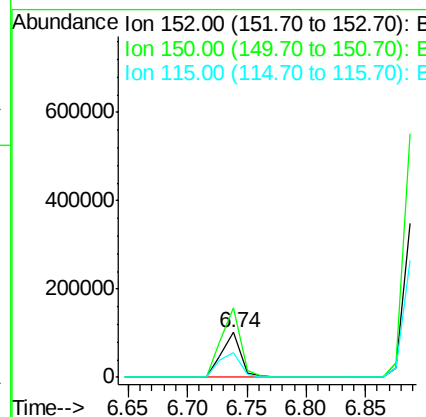
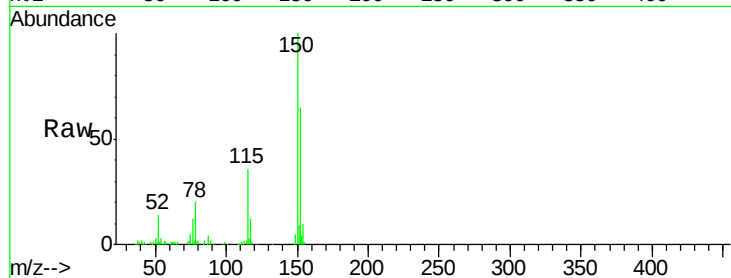


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.74 min Scan# 407  
Delta R.T. -0.03 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
MW-2-040116

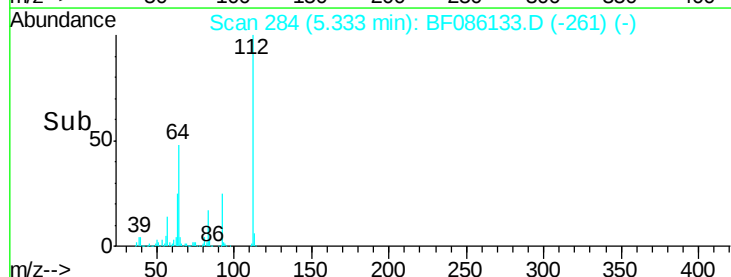
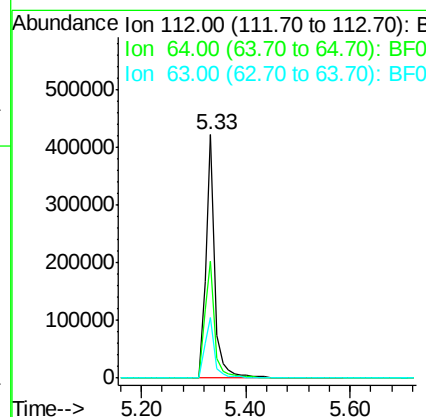
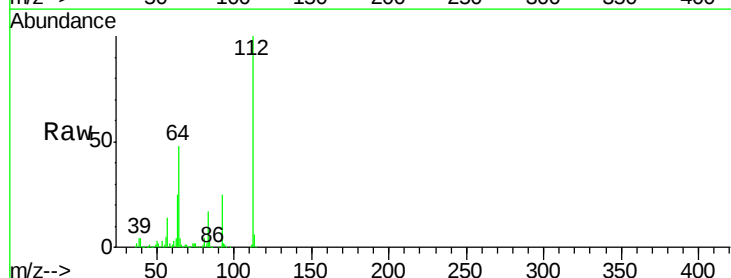
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.4 | 124.2 | 186.2 |
| 115     | 55.9  | 47.0  | 70.6  |



#5

2-Fluorophenol  
Concen: 77.51 ng  
RT: 5.33 min Scan# 284  
Delta R.T. -0.03 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 48.1  | 39.9  | 59.9  |
| 63      | 24.9  | 20.2  | 30.2  |





#7

Phenol-d6

Concen: 48.69 ng

RT: 6.37 min Scan# 375

Delta R.T. -0.05 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

BNA\_F

ClientSampleId :

MW-2-040116

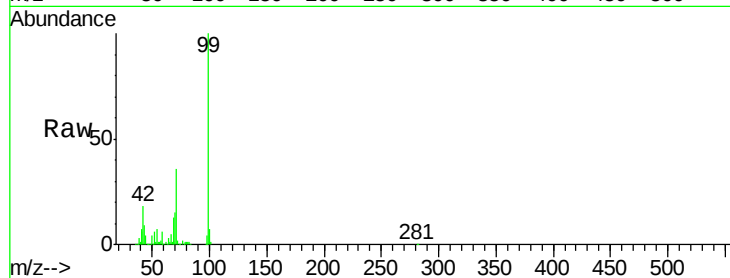
Tgt Ion: 99 Resp: 406715

Ion Ratio Lower Upper

99 100

42 18.5 11.1 16.7#

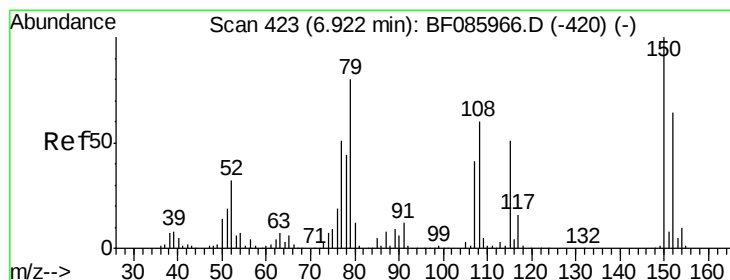
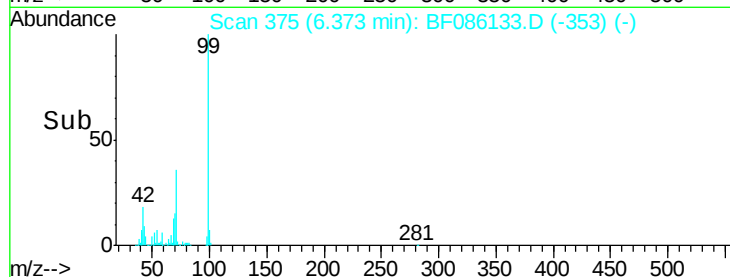
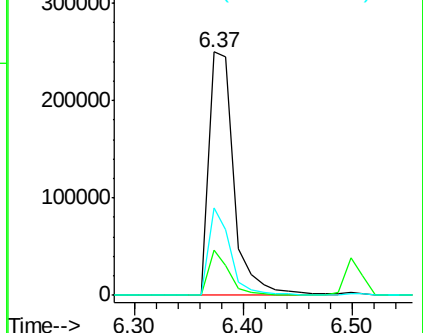
71 35.8 24.9 37.3



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



#15

Benzyl Alcohol

Concen: 2.09 ng

RT: 6.89 min Scan# 420

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

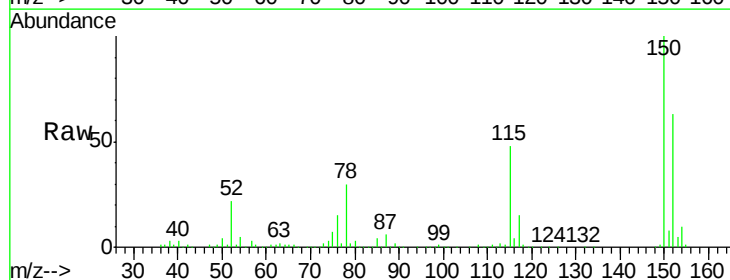
Tgt Ion: 79 Resp: 11295

Ion Ratio Lower Upper

79 100

108 28.4 61.8 92.6#

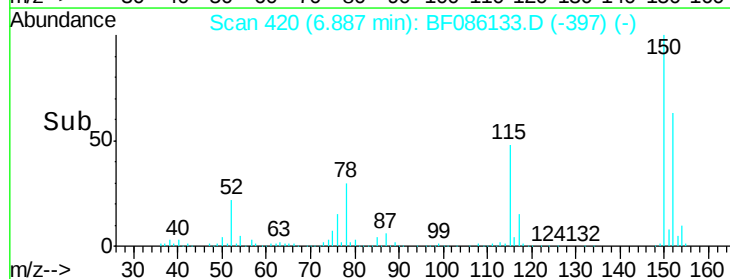
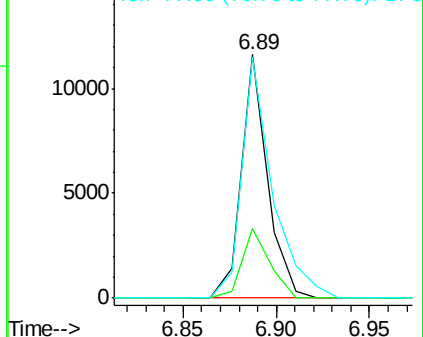
77 98.8 49.6 74.4#

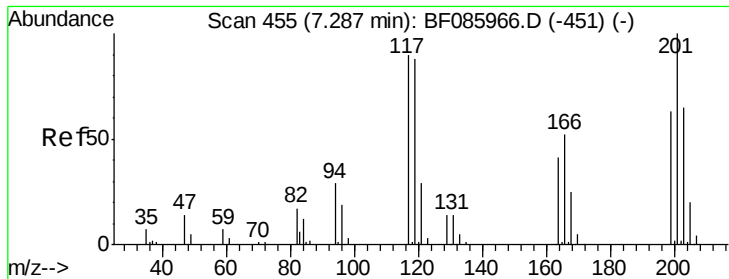


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

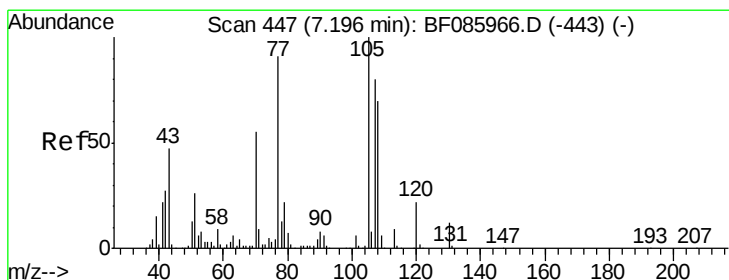
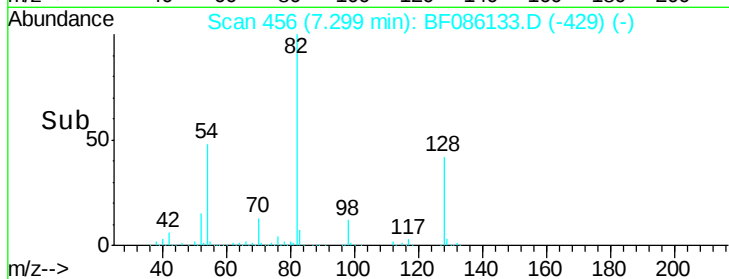
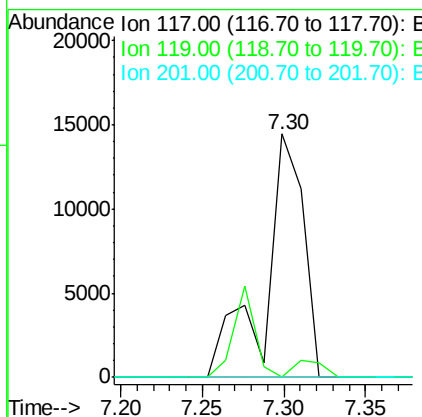
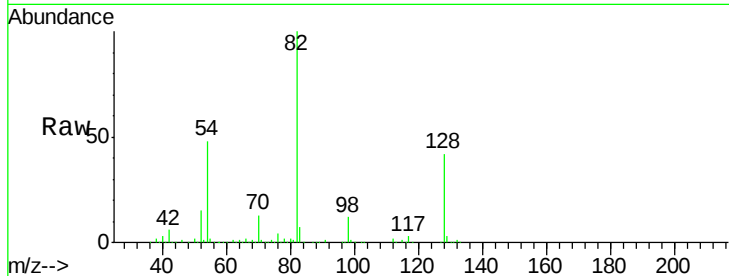




#18  
Hexachloroethane  
Concen: 7.49 ng  
RT: 7.30 min Scan# 456  
Delta R.T. 0.01 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

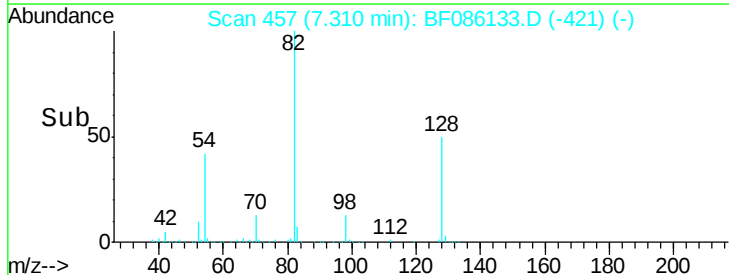
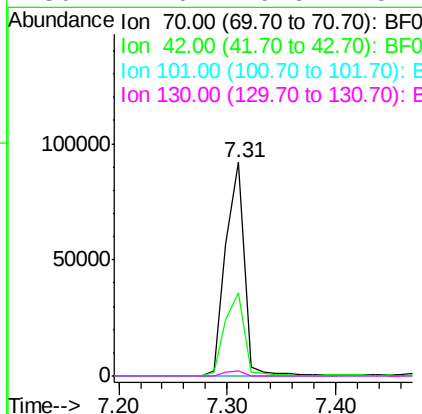
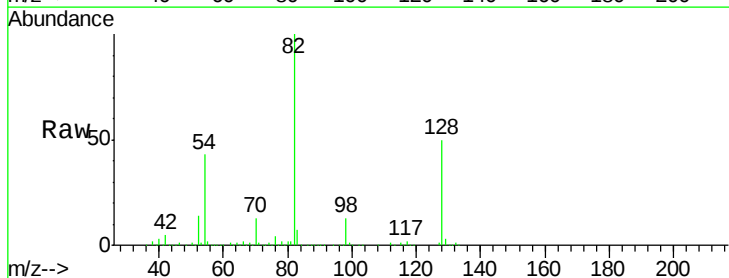
Instrument :  
BNA\_F  
ClientSampleId :  
MW-2-040116

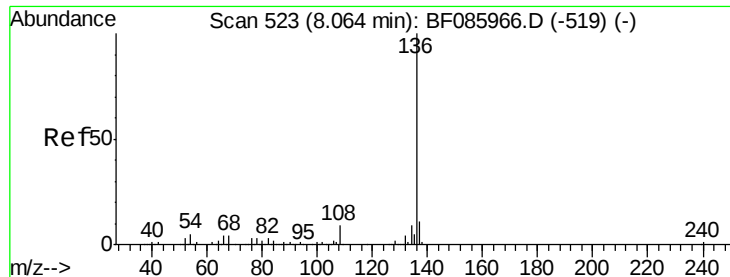
Tgt Ion: 117 Resp: 23599  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.7 115.1#  
201 0.0 83.3 124.9#



#19  
n-Nitroso-di-n-propylamine  
Concen: 21.26 ng  
RT: 7.31 min Scan# 457  
Delta R.T. 0.11 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

Tgt Ion: 70 Resp: 110100  
Ion Ratio Lower Upper  
70 100  
42 39.0 37.1 55.7  
101 0.0 8.6 12.8#  
130 2.6 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: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

BNA\_F

ClientSampleId :

MW-2-040116

Tgt Ion:136 Resp: 453907

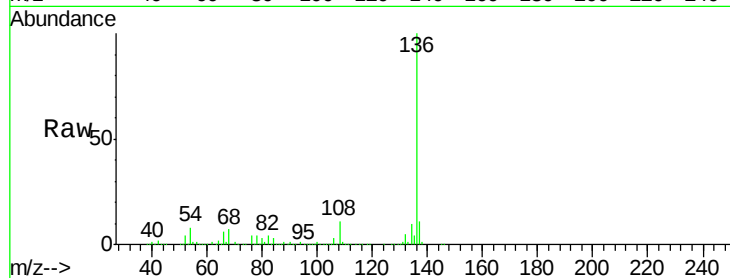
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 7.7 7.4 11.0

68 6.5 5.8 8.8

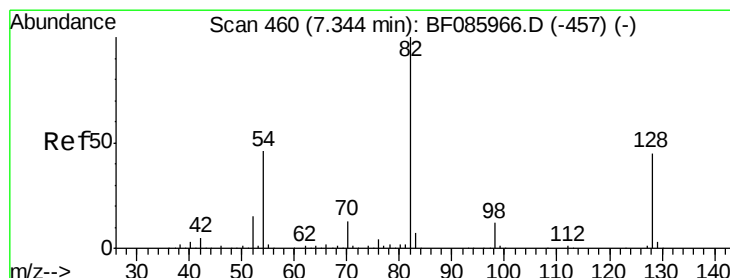
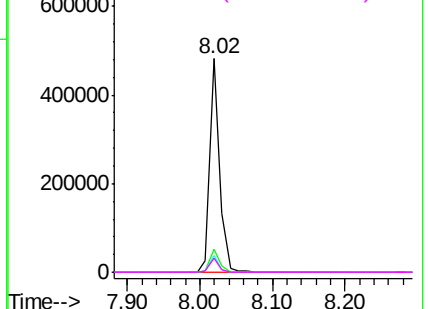
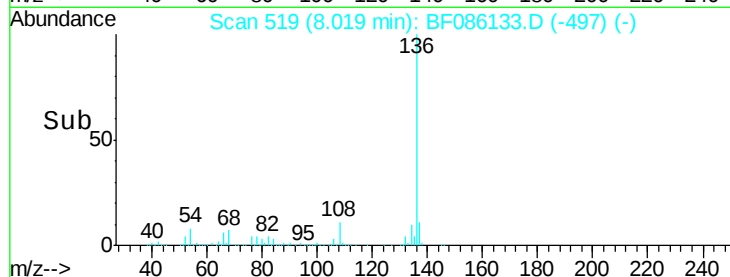


Abundance Ion 136.00 (135.70 to 136.70): E

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: 107.90 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

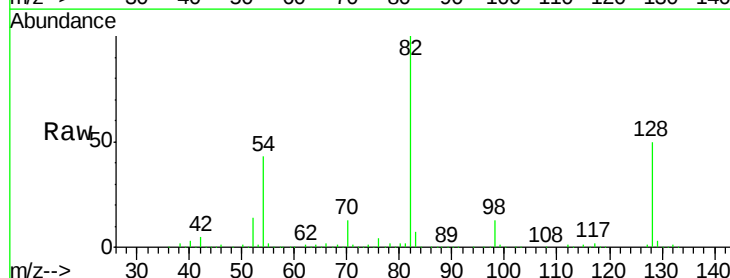
Tgt Ion: 82 Resp: 830482

Ion Ratio Lower Upper

82 100

128 49.8 41.8 62.8

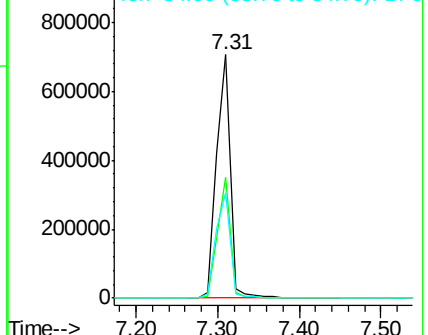
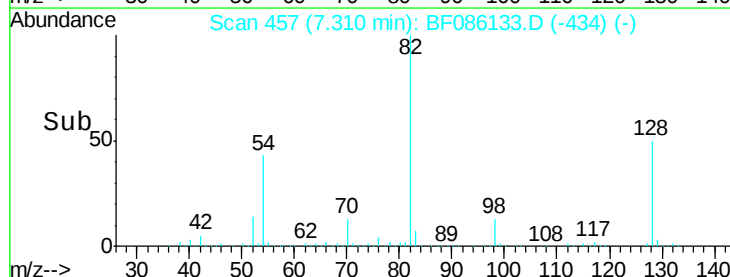
54 43.3 33.4 50.0

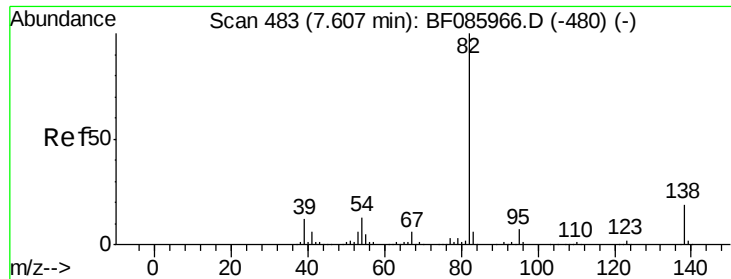


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 53.37 ng

RT: 7.31 min Scan# 457

Delta R.T. -0.30 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

BNA\_F

ClientSampleId :

MW-2-040116

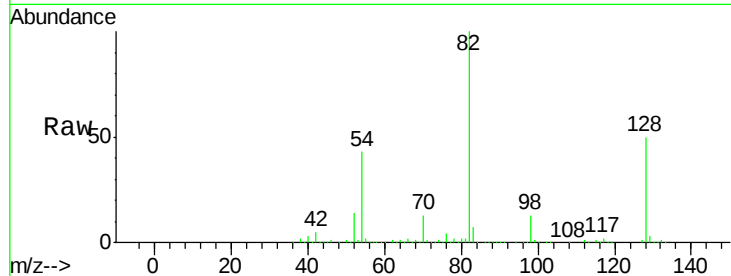
Tgt Ion: 82 Resp: 810880

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

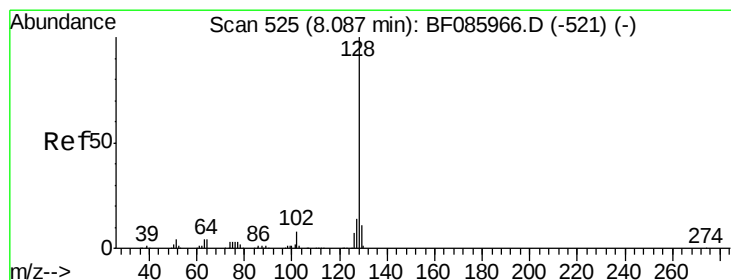
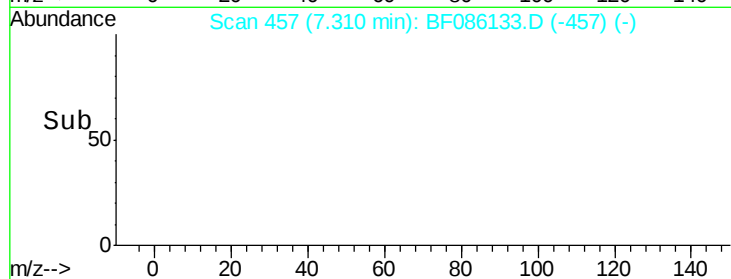
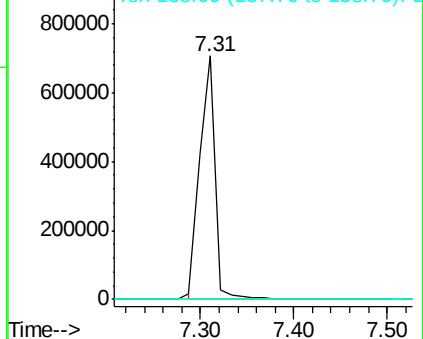
138 0.0 12.9 19.3#



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



#31

Naphthalene

Concen: 4.45 ng

RT: 8.04 min Scan# 521

Delta R.T. -0.05 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

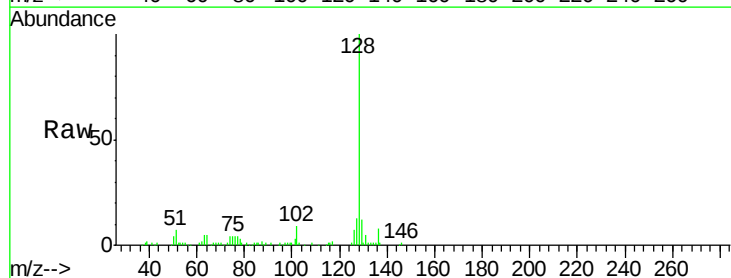
Tgt Ion: 128 Resp: 101688

Ion Ratio Lower Upper

128 100

129 11.6 9.4 14.0

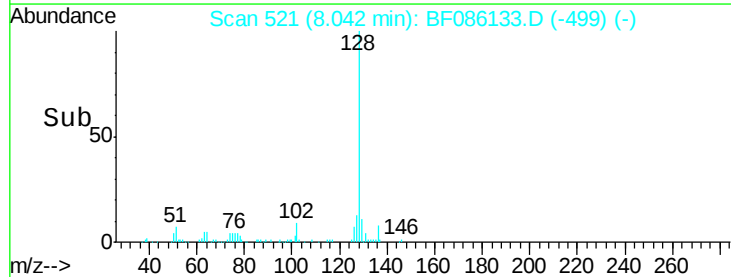
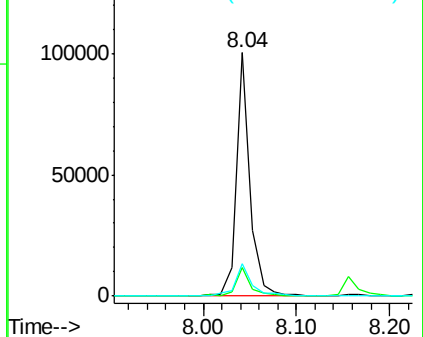
127 13.5 11.0 16.6

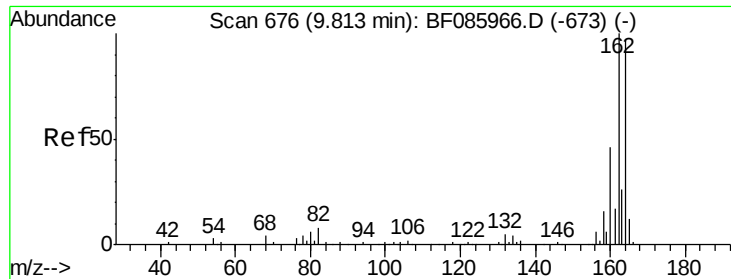


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.05 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

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ClientSampleId :

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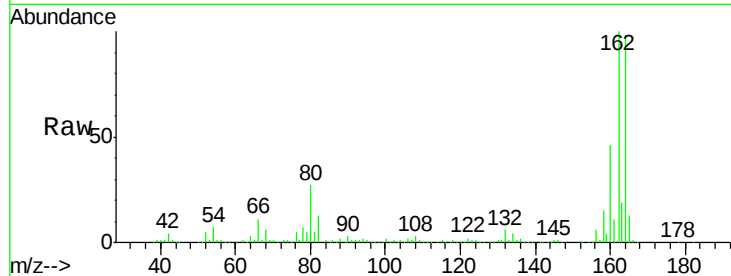
Tgt Ion:164 Resp: 208611

Ion Ratio Lower Upper

164 100

162 102.0 82.1 123.1

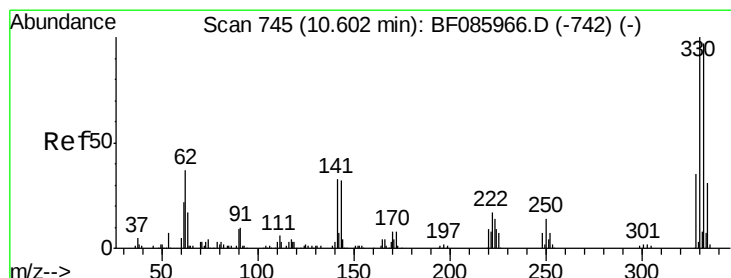
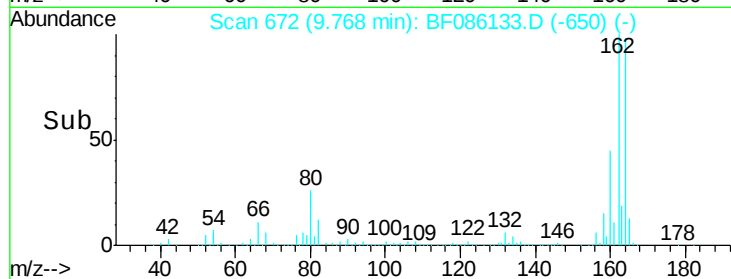
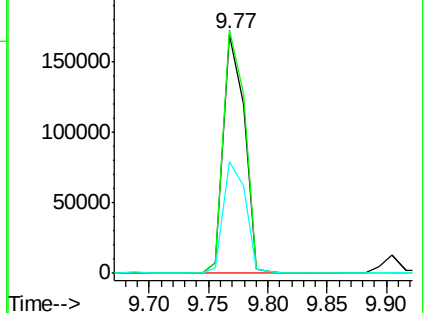
160 46.6 37.4 56.2



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: 159.37 ng

RT: 10.57 min Scan# 742

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

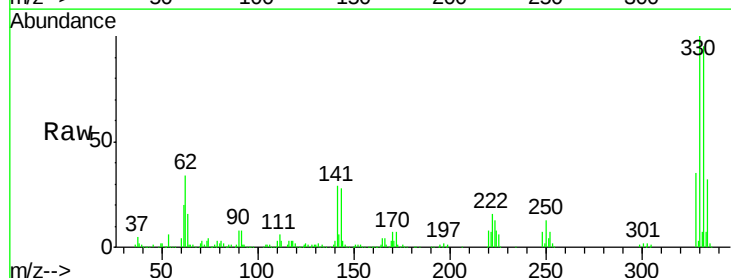
Tgt Ion:330 Resp: 312040

Ion Ratio Lower Upper

330 100

332 95.3 78.2 117.2

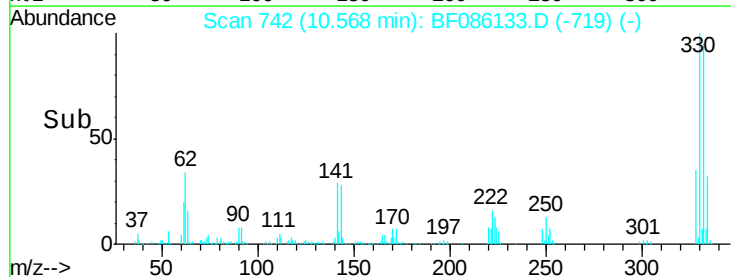
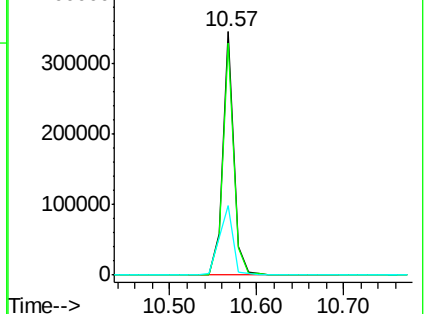
141 35.5 31.5 47.3

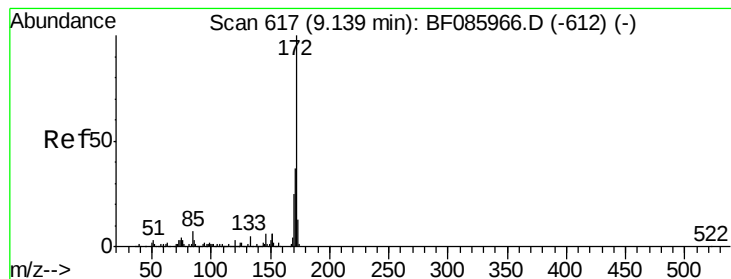


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 111.65 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

BNA\_F

ClientSampleId :

MW-2-040116

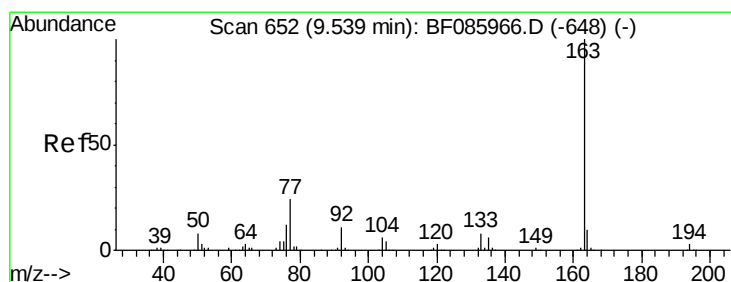
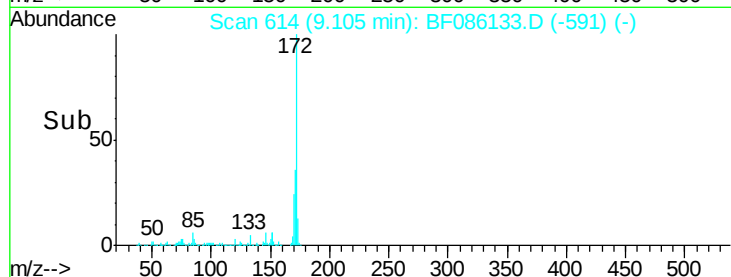
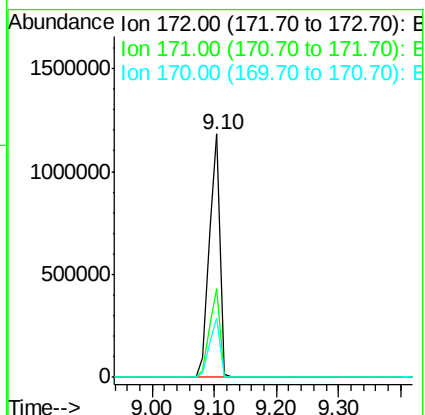
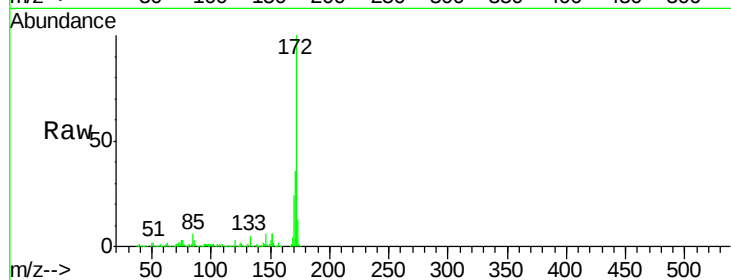
Tgt Ion:172 Resp: 1400798

Ion Ratio Lower Upper

172 100

171 36.3 29.4 44.2

170 24.3 19.8 29.6



#49

Dimethylphthalate

Concen: 2.17 ng

RT: 9.49 min Scan# 648

Delta R.T. -0.05 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

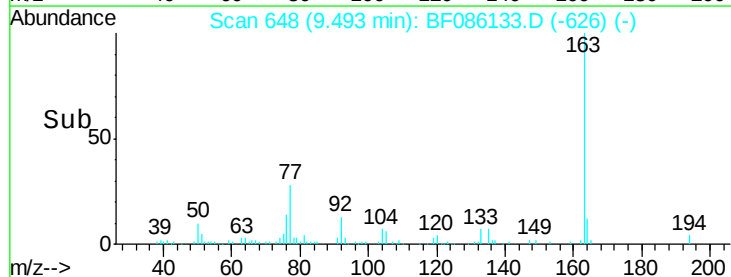
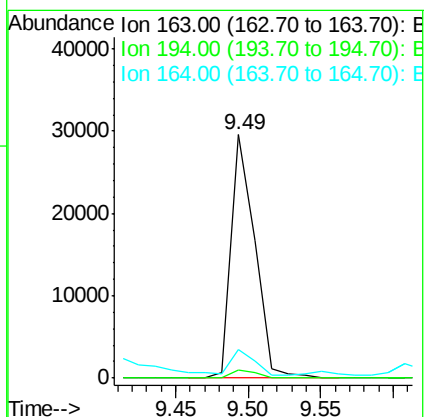
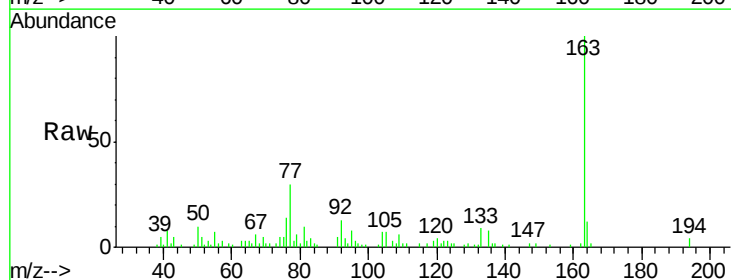
Tgt Ion:163 Resp: 33589

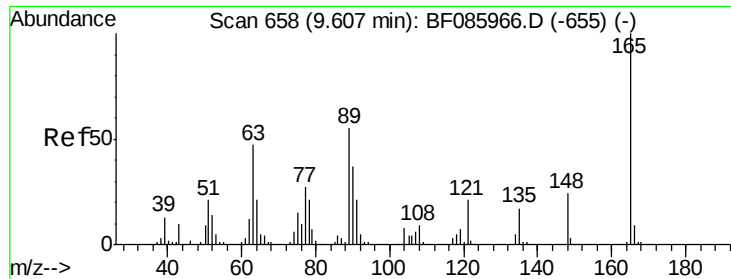
Ion Ratio Lower Upper

163 100

194 3.6 2.9 4.3

164 12.0 8.3 12.5

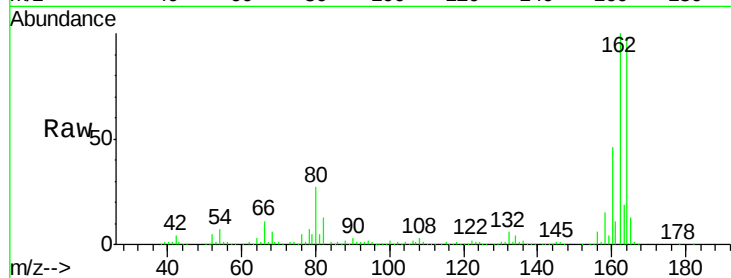




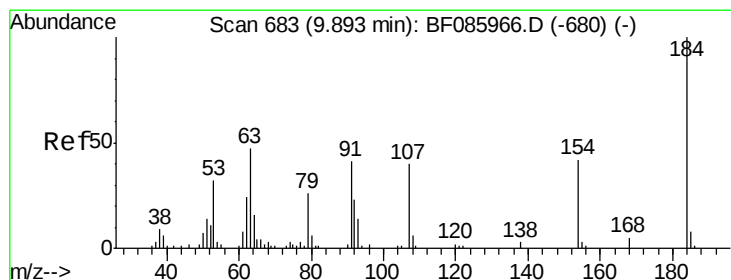
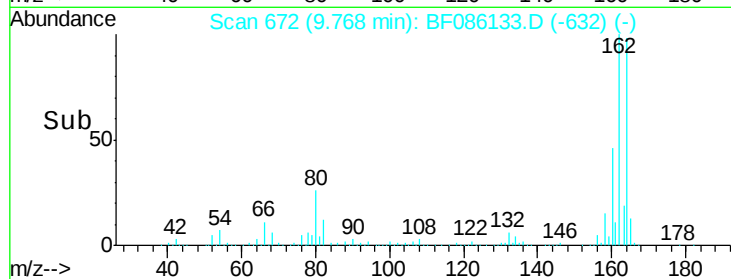
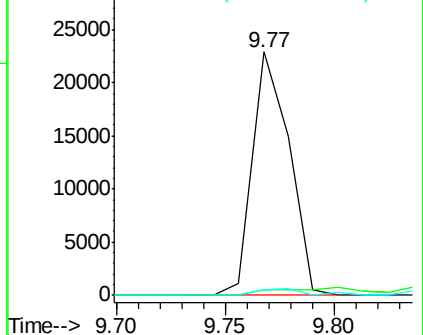
#50  
 2,6-Dinitrotoluene  
 Concen: 8.27 ng  
 RT: 9.77 min Scan# 672  
 Delta R.T. 0.16 min  
 Lab File: BF086133.D  
 Acq: 7 Apr 2016 15:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-2-040116

Tgt Ion:165 Resp: 27043  
 Ion Ratio Lower Upper  
 165 100  
 63 2.4 51.8 77.8#  
 89 2.3 53.7 80.5#

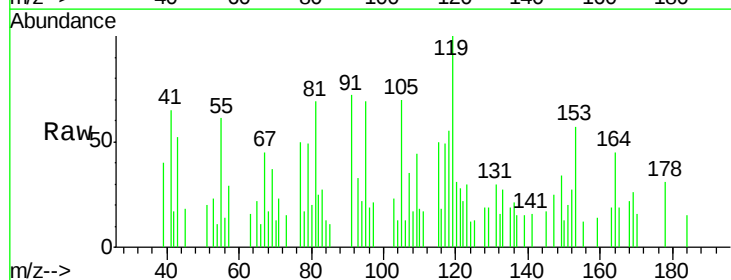


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

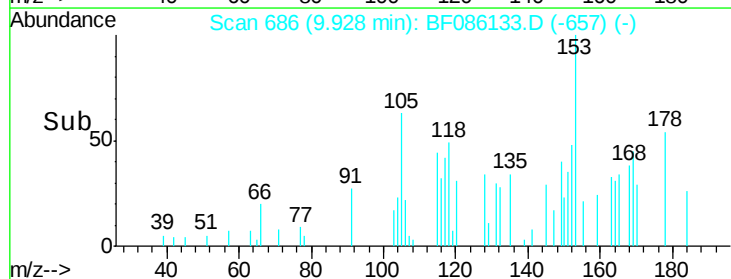
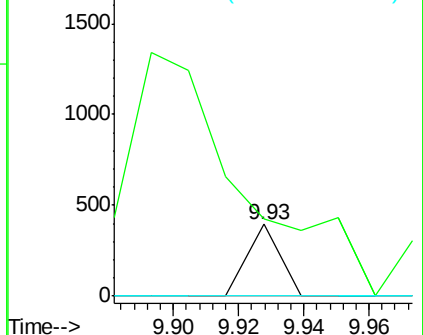


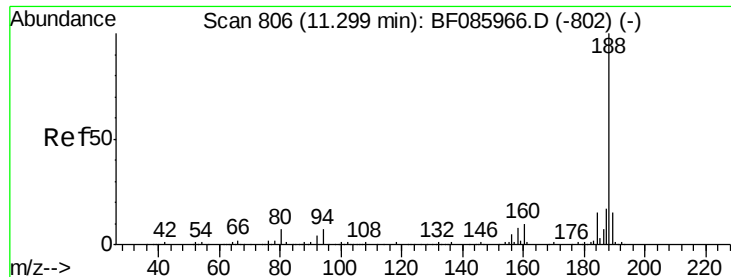
#53  
 2,4-Dinitrophenol  
 Concen: 2.15 ng  
 RT: 9.93 min Scan# 686  
 Delta R.T. 0.03 min  
 Lab File: BF086133.D  
 Acq: 7 Apr 2016 15:45

Tgt Ion:184 Resp: 272  
 Ion Ratio Lower Upper  
 184 100  
 63 108.1 69.5 104.3#  
 154 0.0 58.3 87.5#



Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 154.00 (153.70 to 154.70): E

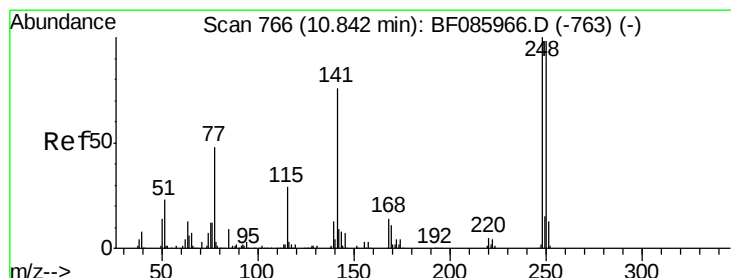
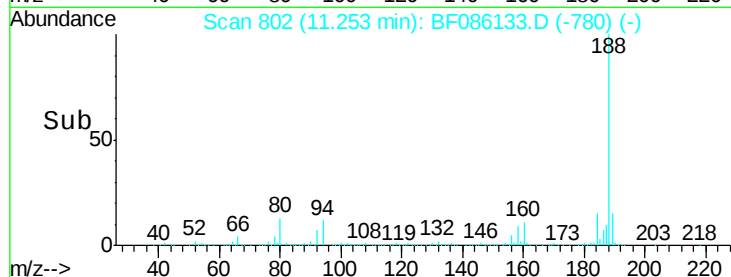
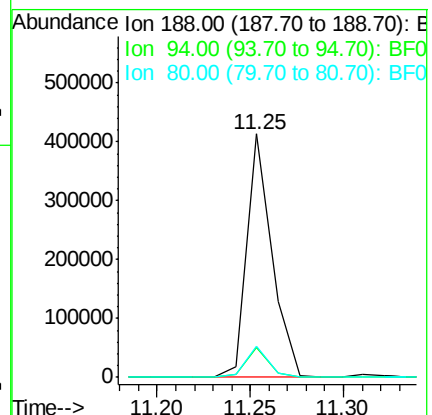
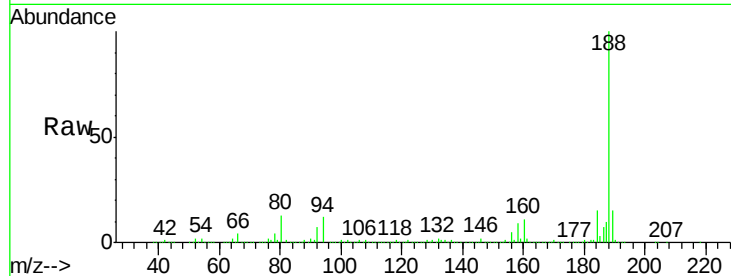




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 802  
Delta R.T. -0.05 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

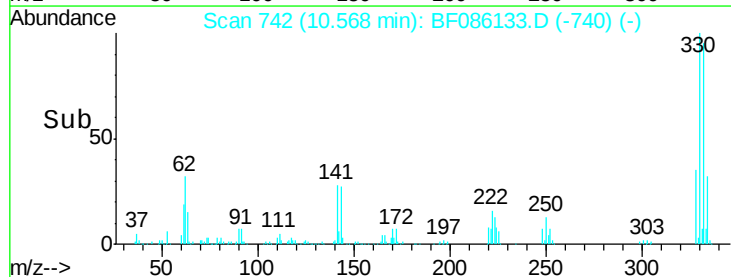
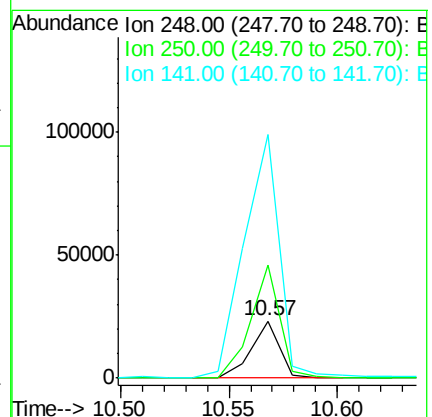
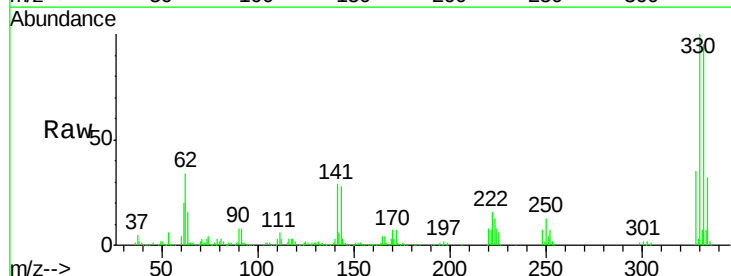
Instrument :  
BNA\_F  
ClientSampleId :  
MW-2-040116

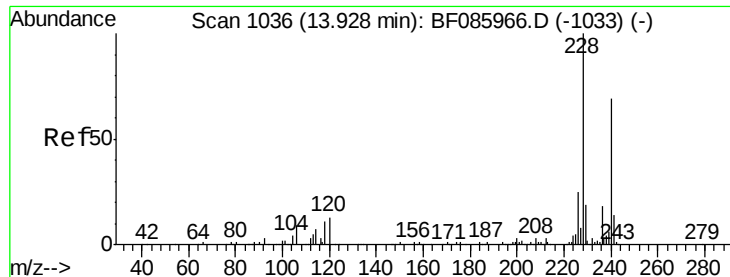
Tgt Ion:188 Resp: 388454  
Ion Ratio Lower Upper  
188 100  
94 12.3 5.4 8.0#  
80 12.9 5.5 8.3#



#66  
4-Bromophenyl-phenylether  
Concen: 5.32 ng  
RT: 10.57 min Scan# 742  
Delta R.T. -0.27 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

Tgt Ion:248 Resp: 21103  
Ion Ratio Lower Upper  
248 100  
250 196.6 77.4 116.0#  
141 424.6 63.6 95.4#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

Instrument :

BNA\_F

ClientSampleId :

MW-2-040116

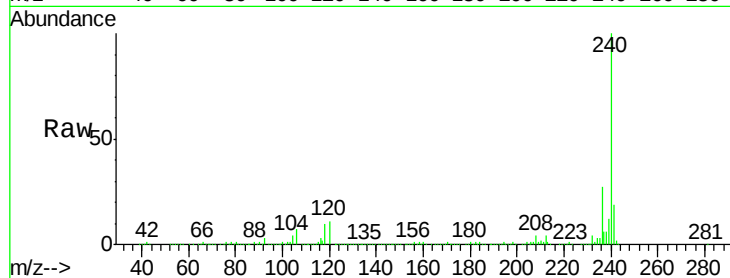
Tgt Ion:240 Resp: 311640

Ion Ratio Lower Upper

240 100

120 10.8 13.8 20.8#

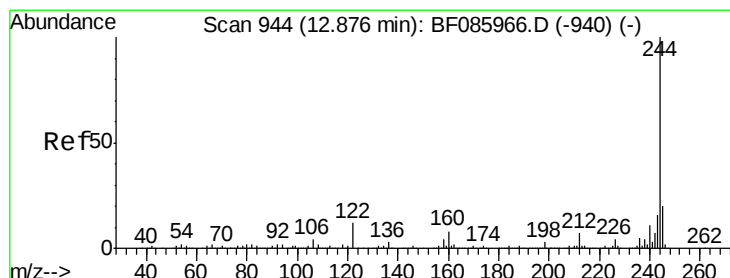
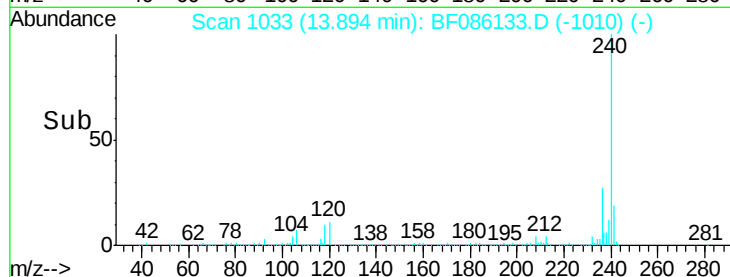
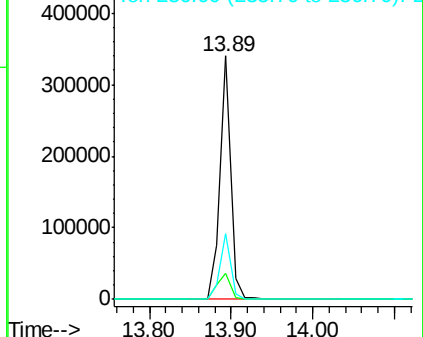
236 26.8 20.6 30.8



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: 84.46 ng

RT: 12.84 min Scan# 941

Delta R.T. -0.03 min

Lab File: BF086133.D

Acq: 7 Apr 2016 15:45

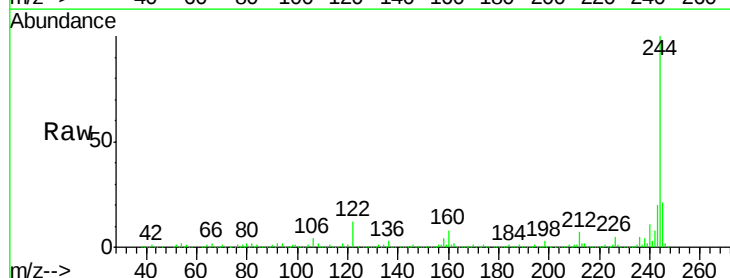
Tgt Ion:244 Resp: 1119760

Ion Ratio Lower Upper

244 100

212 7.4 6.1 9.1

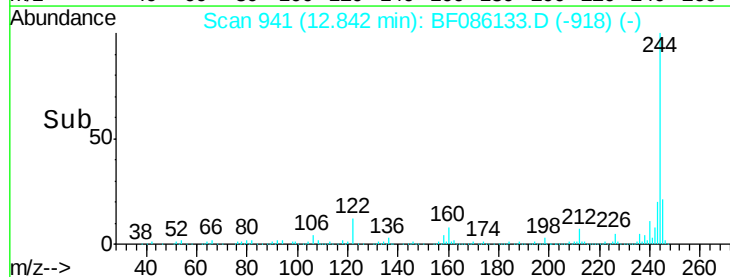
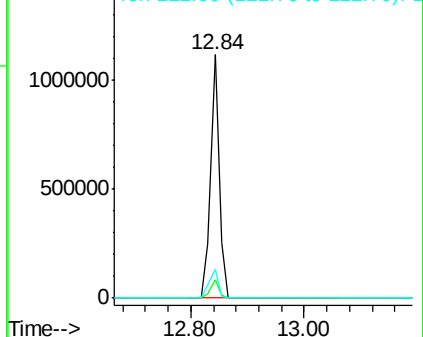
122 11.9 10.2 15.4

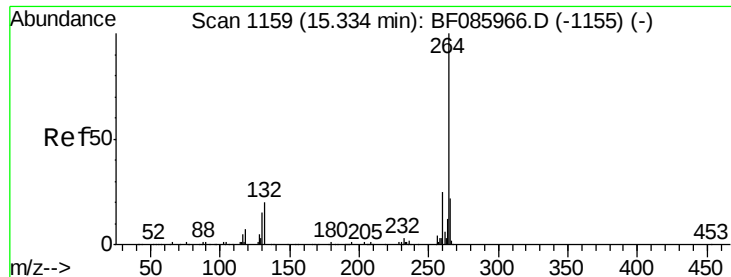


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

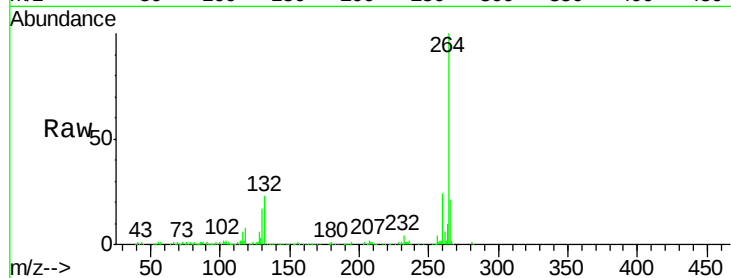




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.05 min  
Lab File: BF086133.D  
Acq: 7 Apr 2016 15:45

Instrument :  
BNA\_F  
ClientSampleId :  
MW-2-040116

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.4  | 29.2  |
| 265     | 21.3  | 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

