

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051316\  
 Data File : BF086992.D  
 Acq On : 14 May 2016 1:44  
 Operator : UM/SJ  
 Sample : H2894-06  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP25-6-7FT

Quant Time: May 14 03:33:44 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF050916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 13 23:02:21 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.62  | 152  | 130803   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.90  | 136  | 536954   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.64  | 164  | 264785   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.12 | 188  | 505272   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.75 | 240  | 412432   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.11 | 264  | 299111   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.21  | 112  | 943175   | 122.11 | ng    | 0.01     |
| 7) Phenol-d6                | 6.28  | 99   | 1220852  | 118.27 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.19  | 82   | 985853   | 92.19  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.44 | 330  | 369416   | 131.78 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.98  | 172  | 1552370  | 98.53  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.71 | 244  | 1572289  | 80.88  | ng    | -0.01    |

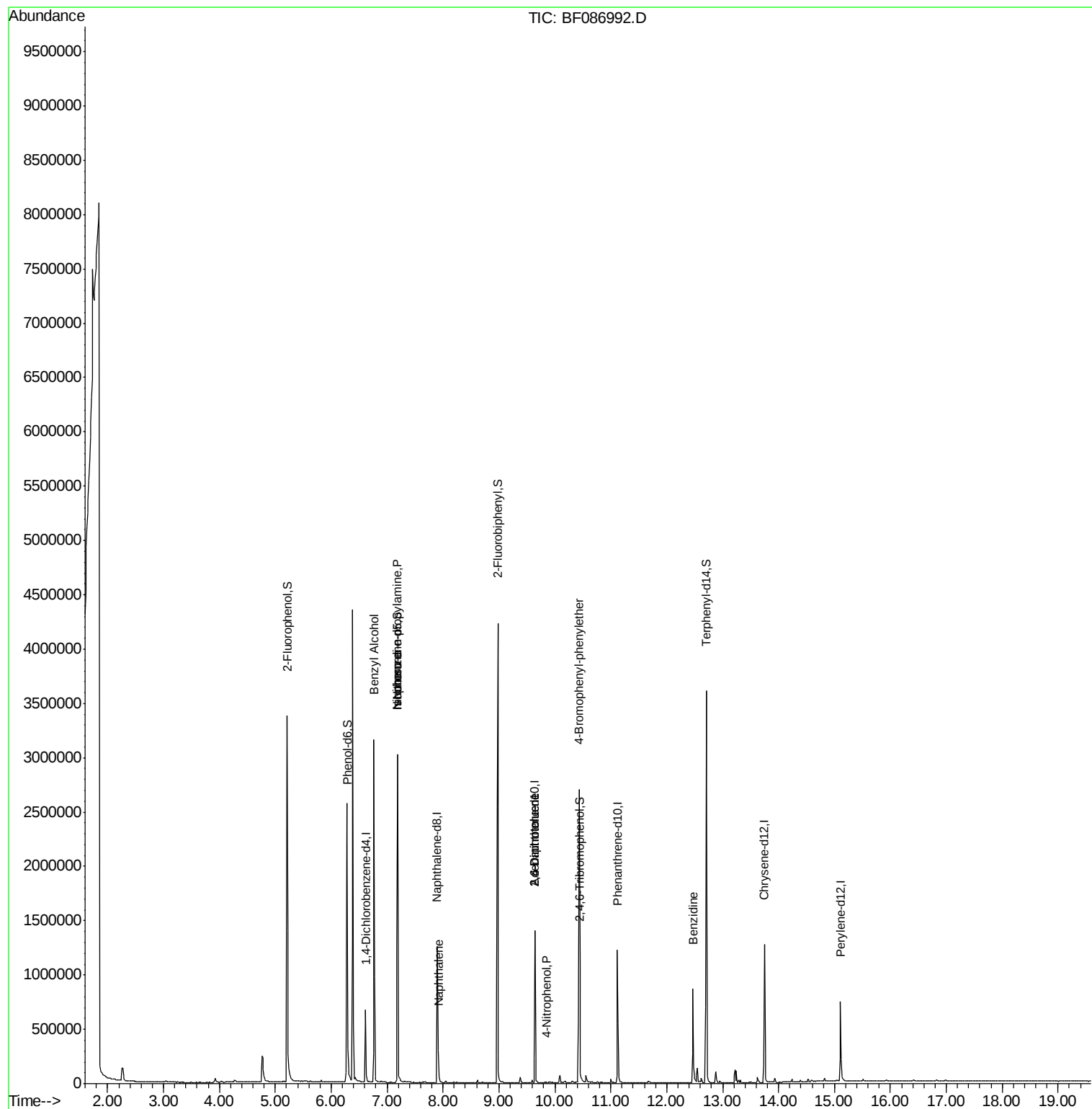
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 6.76  | 79   | 14674    | 2.06  | ng    | # 41   |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 138896   | 19.25 | ng    | # 74   |
| 25) Isophorone                 | 7.19  | 82   | 715937   | 36.08 | ng    | # 68   |
| 31) Naphthalene                | 7.92  | 128  | 117586   | 4.37  | ng    | 99     |
| 50) 2,6-Dinitrotoluene         | 9.64  | 165  | 34165    | 8.04  | ng    | # 21   |
| 55) 4-Nitrophenol              | 9.85  | 139  | 728      | 4.79  | ng    | # 14   |
| 56) 2,4-Dinitrotoluene         | 9.64  | 165  | 34165    | 6.49  | ng    | # 16   |
| 66) 4-Bromophenyl-phenylether  | 10.43 | 248  | 21181    | 4.13  | ng    | # 1    |
| 76) Benzidine                  | 12.47 | 184  | 388709   | 36.97 | ng    | 96     |

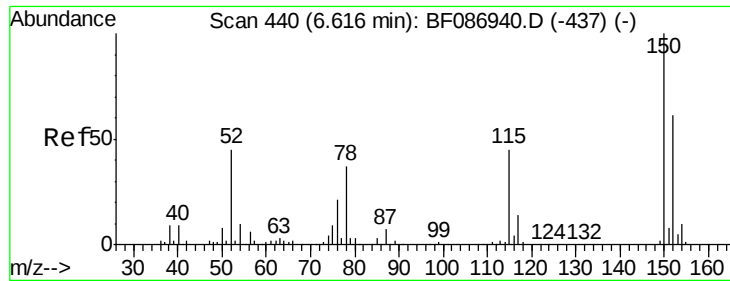
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 13 23:02:21 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.00 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

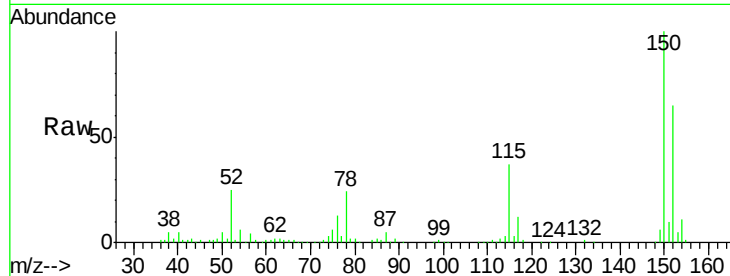
Tgt Ion:152 Resp: 130803

Ion Ratio Lower Upper

152 100

150 153.9 125.8 188.6

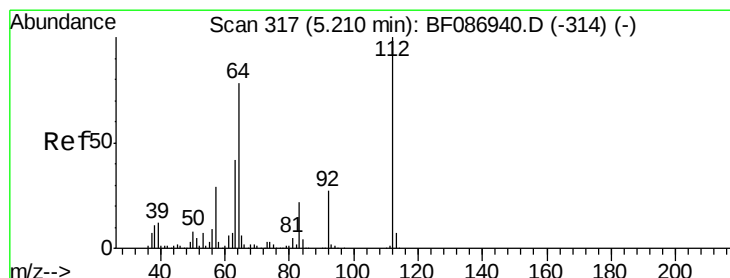
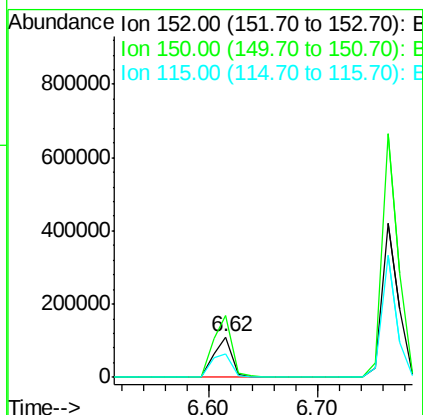
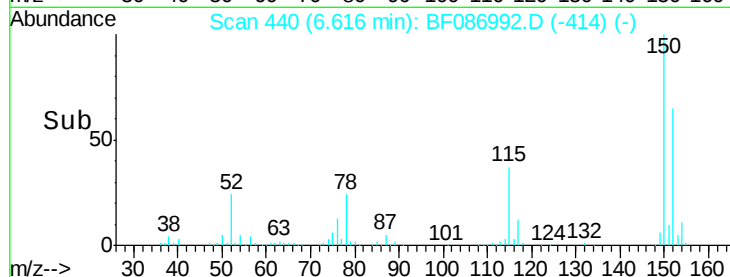
115 56.3 51.5 77.3



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: 122.11 ng

RT: 5.21 min Scan# 317

Delta R.T. 0.01 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

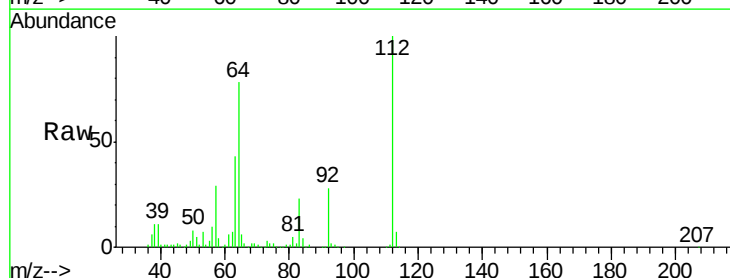
Tgt Ion:112 Resp: 943175

Ion Ratio Lower Upper

112 100

64 77.7 52.1 78.1

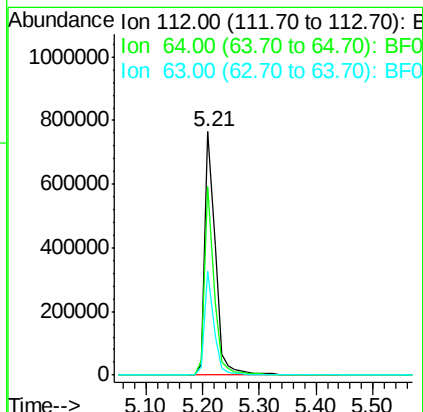
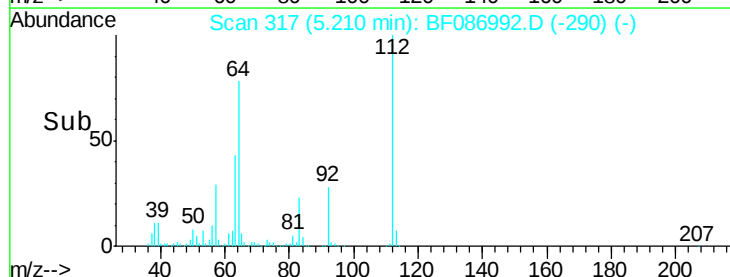
63 42.8 25.7 38.5

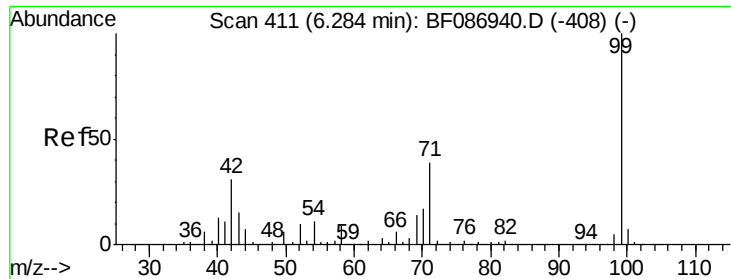


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.27 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.00 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

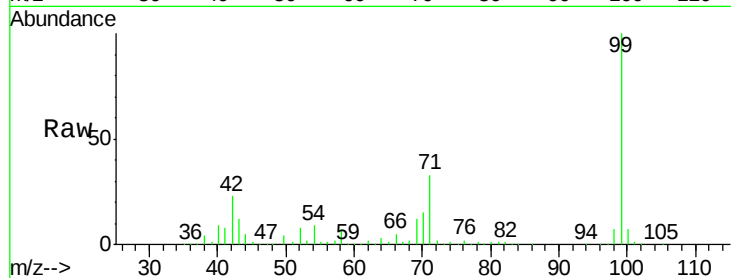
Tgt Ion: 99 Resp: 1220852

Ion Ratio Lower Upper

99 100

42 22.6 13.6 20.4#

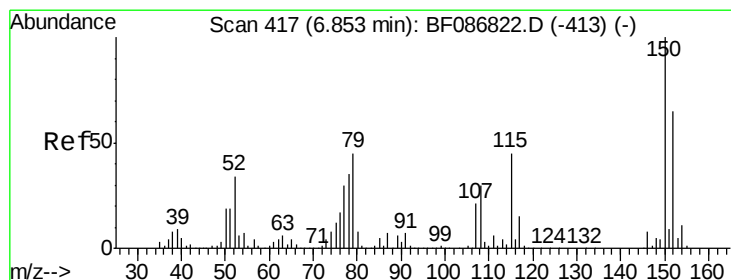
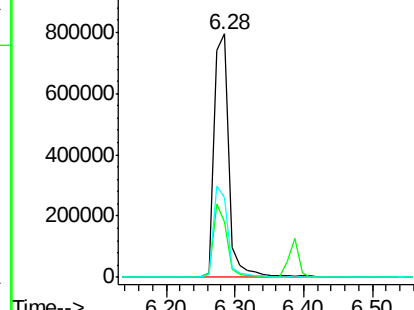
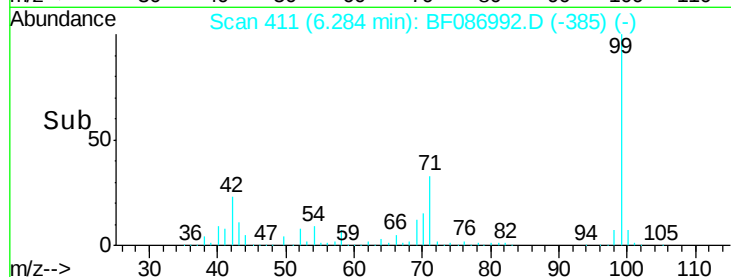
71 32.9 24.6 36.8



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: 2.06 ng

RT: 6.76 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

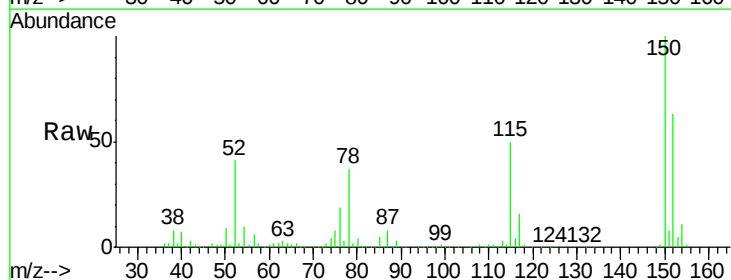
Tgt Ion: 79 Resp: 14674

Ion Ratio Lower Upper

79 100

108 30.5 68.4 102.6#

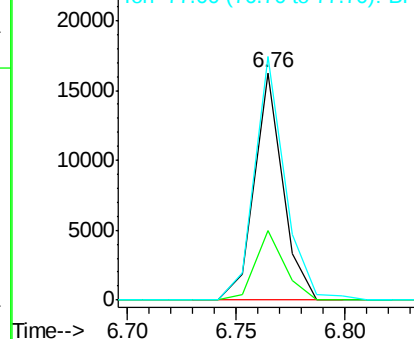
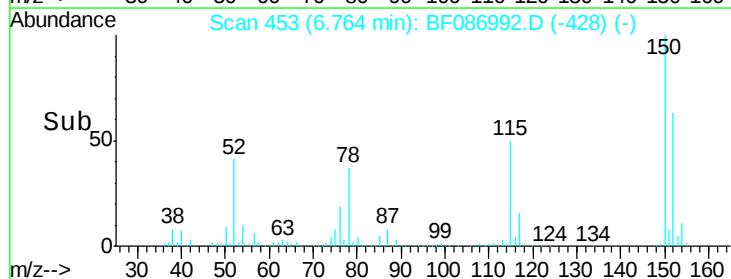
77 107.2 50.6 76.0#

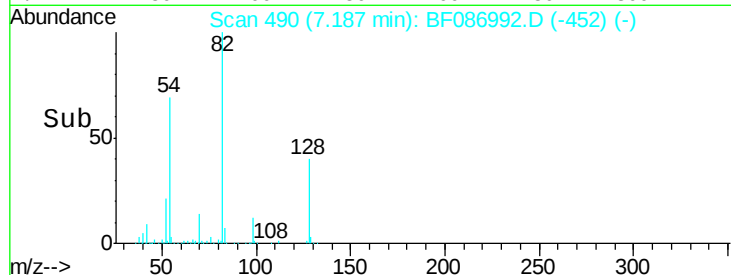
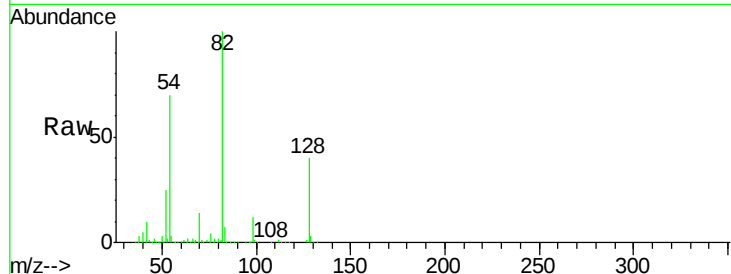
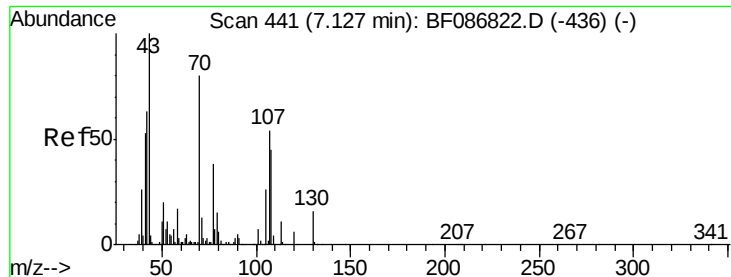


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

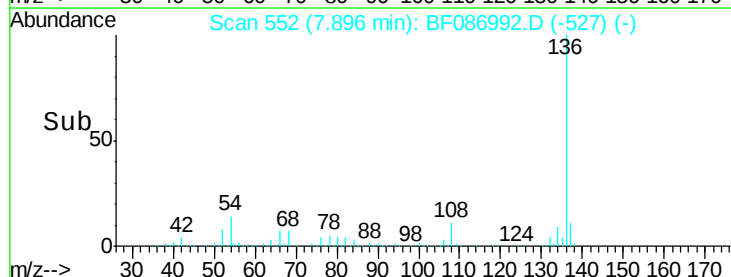
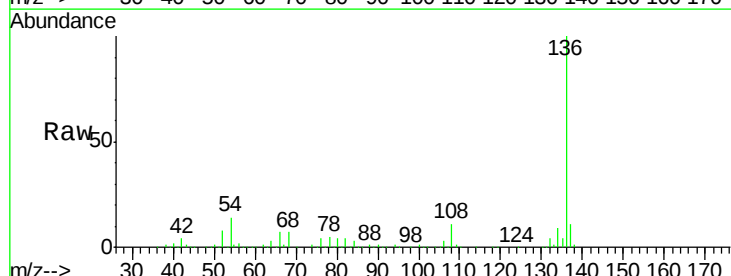
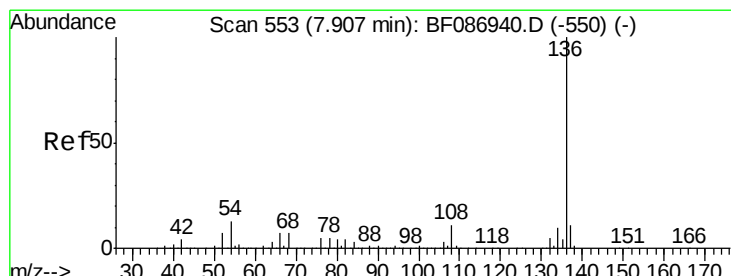
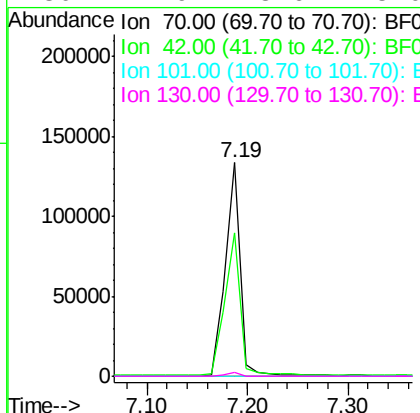




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.25 ng  
RT: 7.19 min Scan# 490  
Delta R.T. 0.14 min  
Lab File: BF086992.D  
Acq: 14 May 2016 1:44

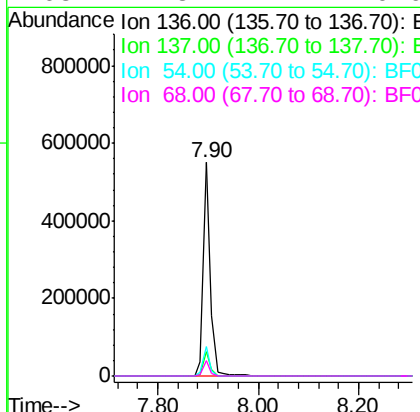
Instrument :  
BNA\_F  
ClientSampleId :  
TP25-6-7FT

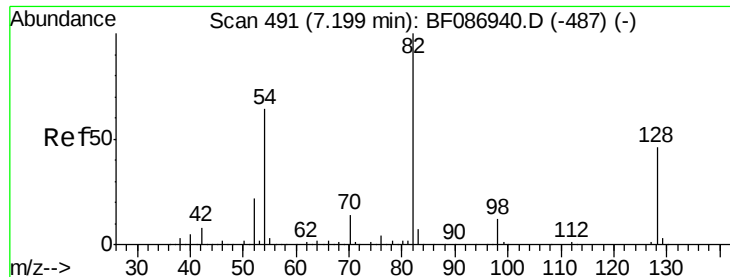
Tgt Ion: 70 Resp: 138896  
Ion Ratio Lower Upper  
70 100  
42 67.3 43.1 64.7#  
101 0.0 8.1 12.1#  
130 1.9 18.6 28.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 552  
Delta R.T. -0.01 min  
Lab File: BF086992.D  
Acq: 14 May 2016 1:44

Tgt Ion: 136 Resp: 536954  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.8 13.2  
54 13.9 5.0 7.4#  
68 7.3 4.4 6.6#

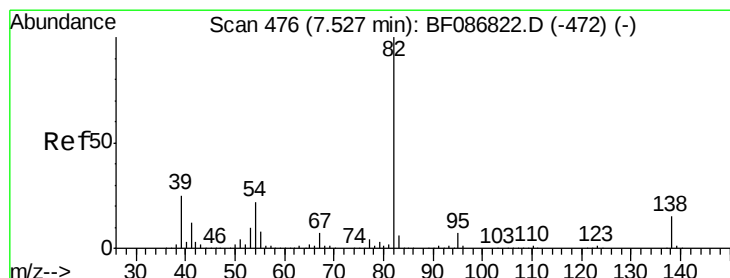
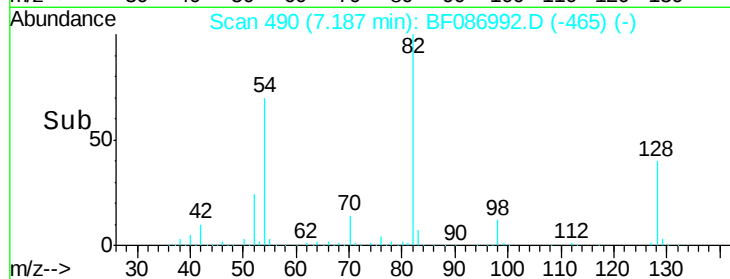
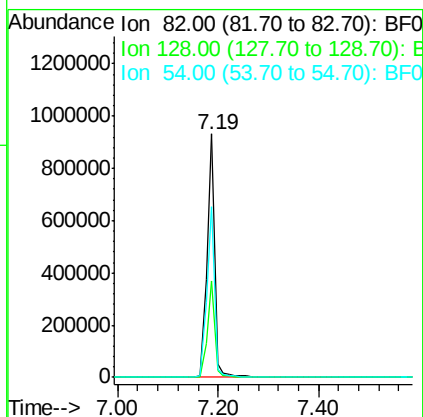
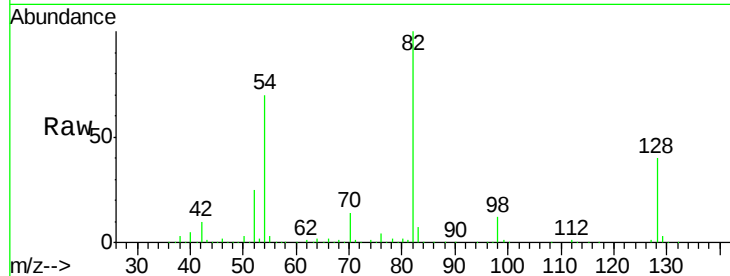




#23  
 Nitrobenzene-d5  
 Concen: 92.19 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.01 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

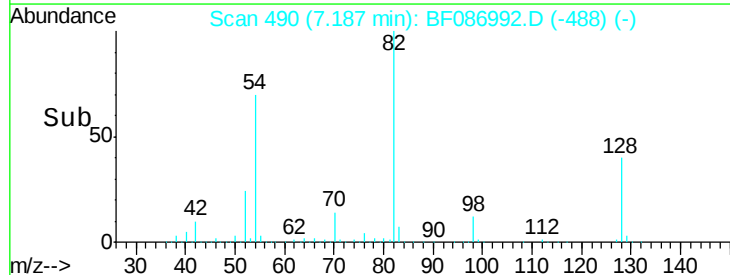
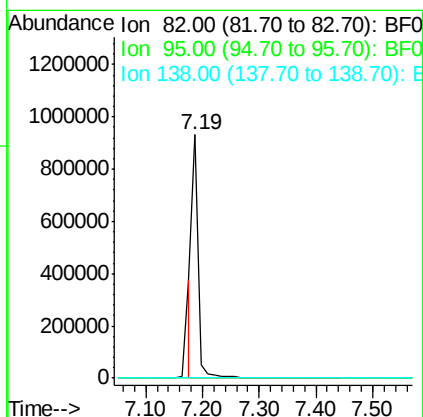
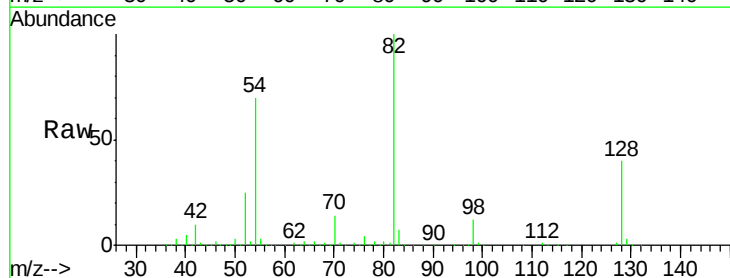
Instrument :  
 BNA\_F  
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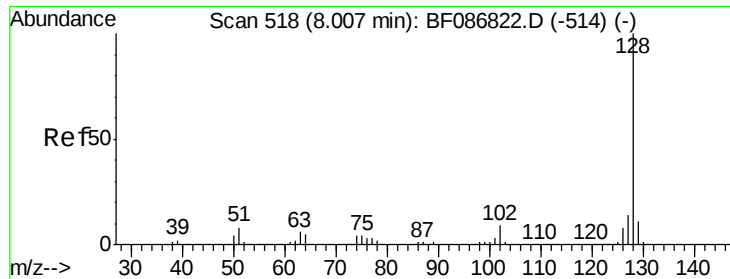
Tgt Ion: 82 Resp: 985853  
 Ion Ratio Lower Upper  
 82 100  
 128 39.8 40.6 61.0#  
 54 70.0 38.1 57.1#



#25  
 Isophorone  
 Concen: 36.08 ng  
 RT: 7.19 min Scan# 490  
 Delta R.T. -0.27 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

Tgt Ion: 82 Resp: 715937  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.1 7.7#  
 138 0.0 12.4 18.6#

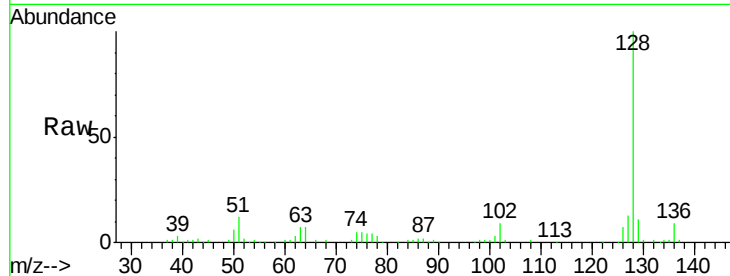




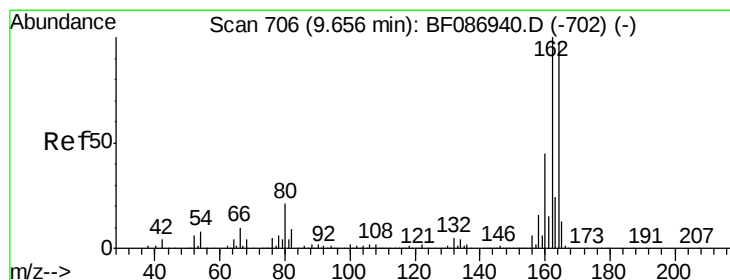
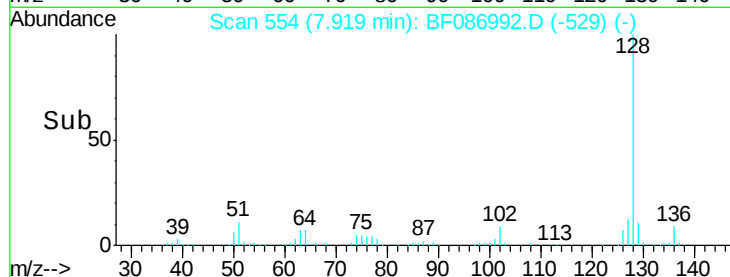
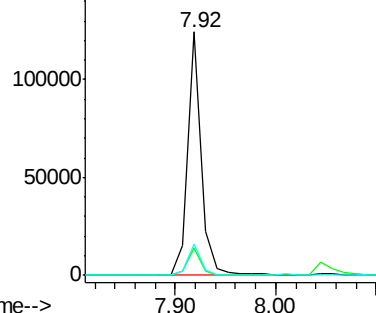
#31  
Naphthalene  
Concen: 4.37 ng  
RT: 7.92 min Scan# 554  
Delta R.T. -0.01 min  
Lab File: BF086992.D  
Acq: 14 May 2016 1:44

Instrument :  
BNA\_F  
ClientSampleId :  
TP25-6-7FT

Tgt Ion:128 Resp: 117586  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.6 13.0  
127 12.9 10.8 16.2

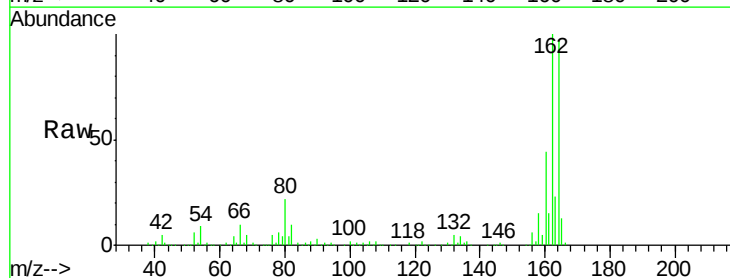


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

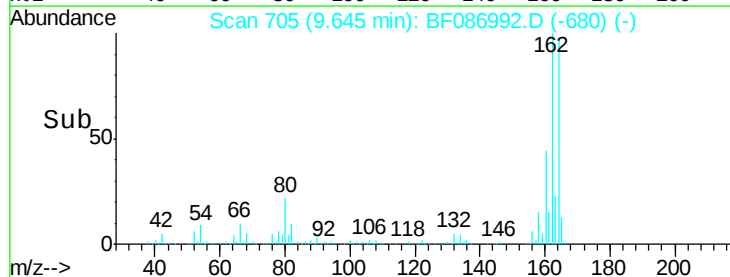
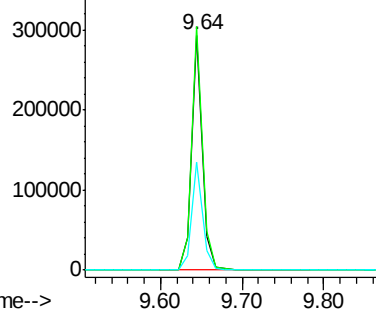


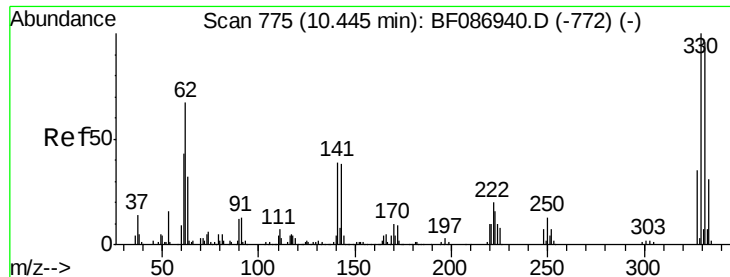
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.64 min Scan# 705  
Delta R.T. -0.01 min  
Lab File: BF086992.D  
Acq: 14 May 2016 1:44

Tgt Ion:164 Resp: 264785  
Ion Ratio Lower Upper  
164 100  
162 103.6 82.8 124.2  
160 46.1 36.9 55.3



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

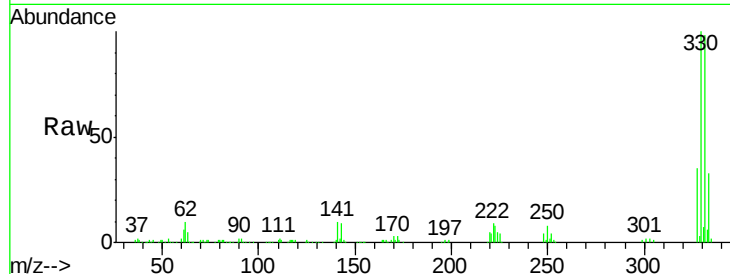




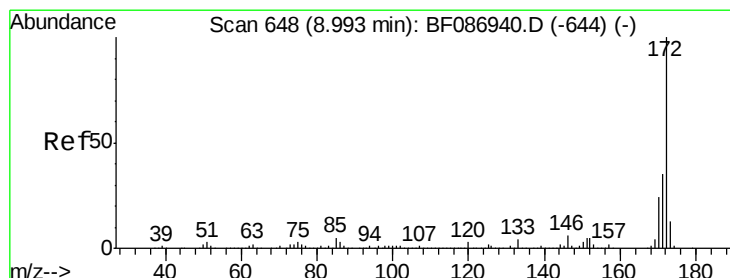
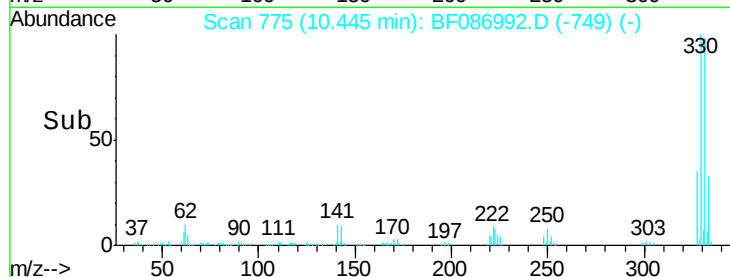
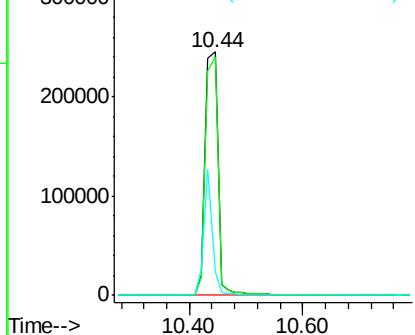
#41  
 2,4,6-Tribromophenol  
 Concen: 131.78 ng  
 RT: 10.44 min Scan# 775  
 Delta R.T. -0.00 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

Instrument :  
 BNA\_F  
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 TP25-6-7FT

Tgt Ion:330 Resp: 369416  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 79.0 118.4  
 141 34.8 31.2 46.8

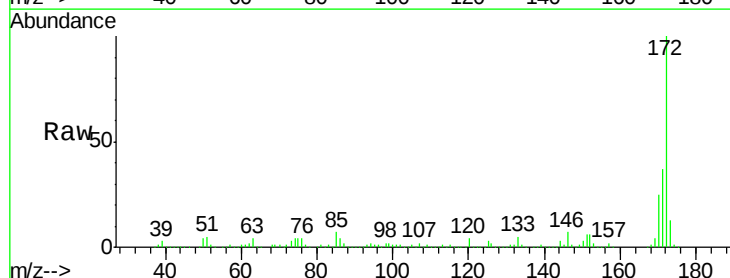


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

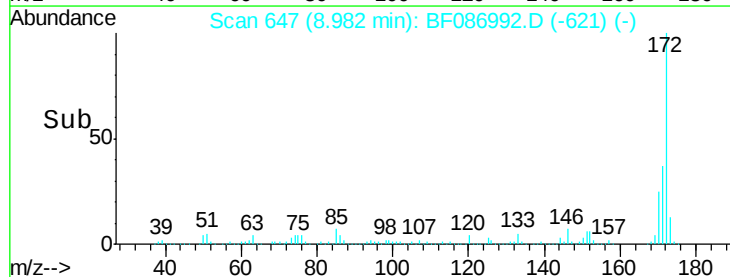
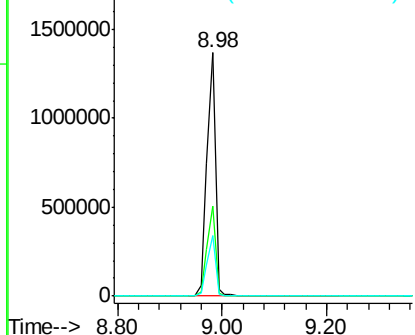


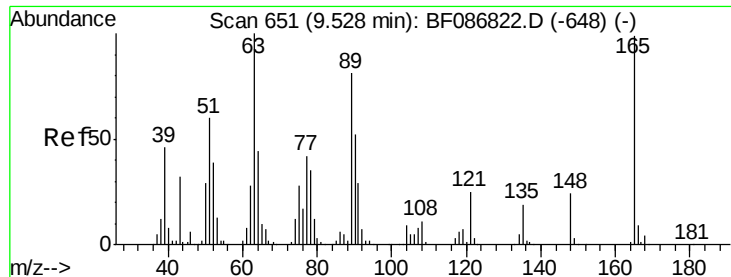
#44  
 2-Fluorobiphenyl  
 Concen: 98.53 ng  
 RT: 8.98 min Scan# 647  
 Delta R.T. -0.00 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

Tgt Ion:172 Resp: 1552370  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 29.0 43.6  
 170 24.9 19.8 29.8



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: 8.04 ng

RT: 9.64 min Scan# 705

Delta R.T. 0.18 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

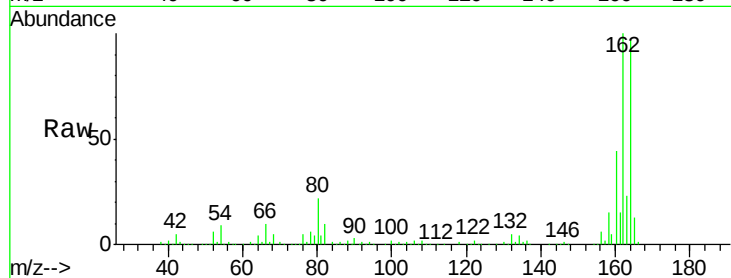
Tgt Ion:165 Resp: 34165

Ion Ratio Lower Upper

165 100

63 2.1 51.8 77.8#

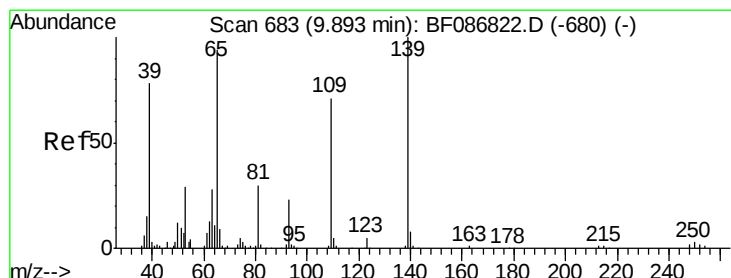
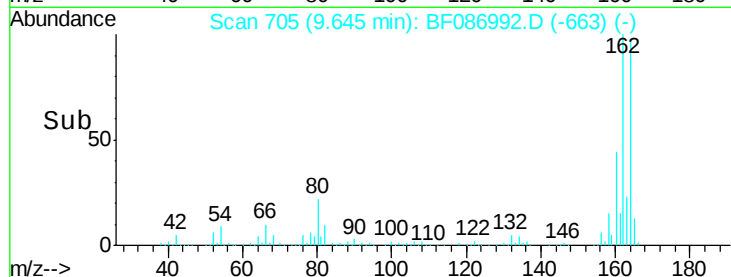
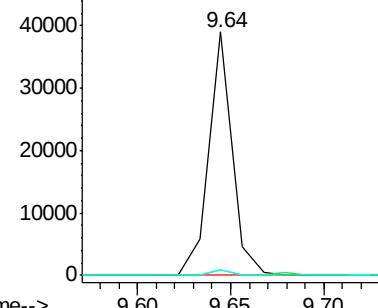
89 2.3 50.7 76.1#



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



#55

4-Nitrophenol

Concen: 4.79 ng

RT: 9.85 min Scan# 723

Delta R.T. 0.03 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

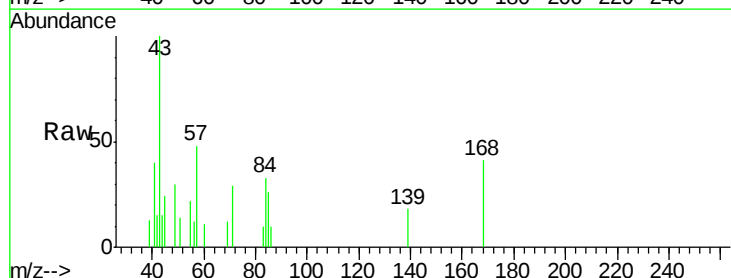
Tgt Ion:139 Resp: 728

Ion Ratio Lower Upper

139 100

109 0.0 36.9 76.9#

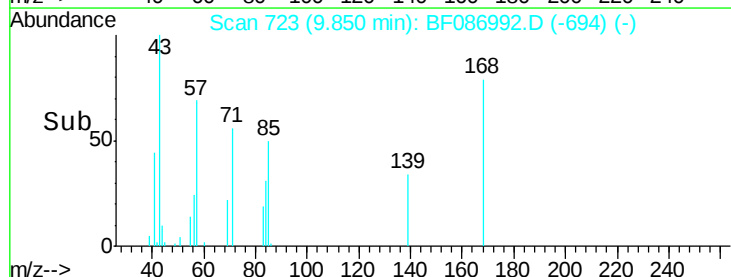
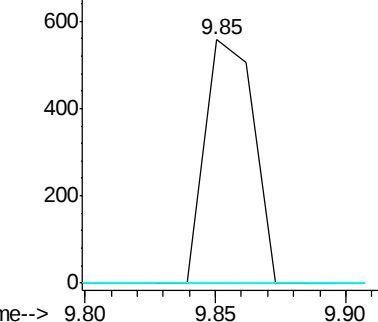
65 0.0 64.0 104.0#

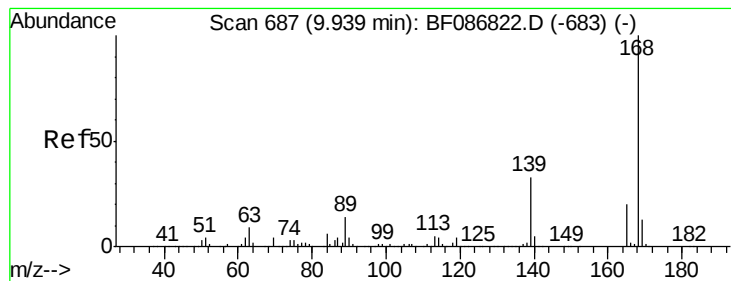


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

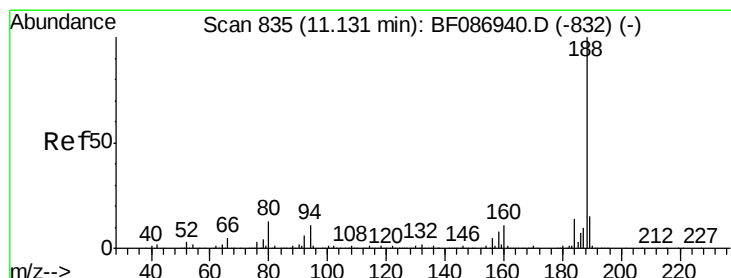
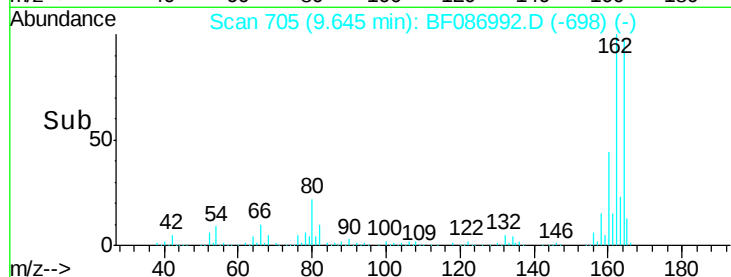
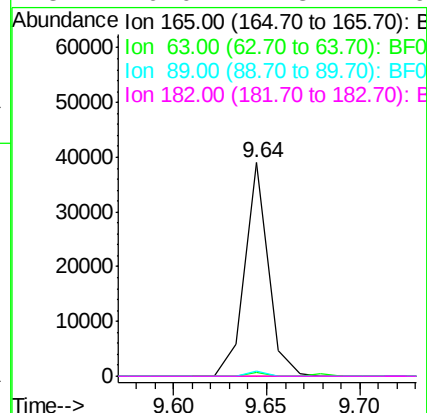
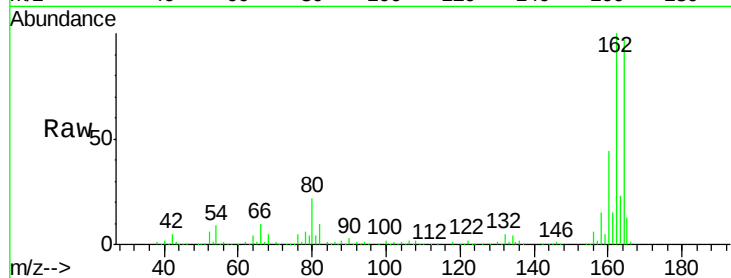




#56  
 2,4-Dinitrotoluene  
 Concen: 6.49 ng  
 RT: 9.64 min Scan# 705  
 Delta R.T. -0.22 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

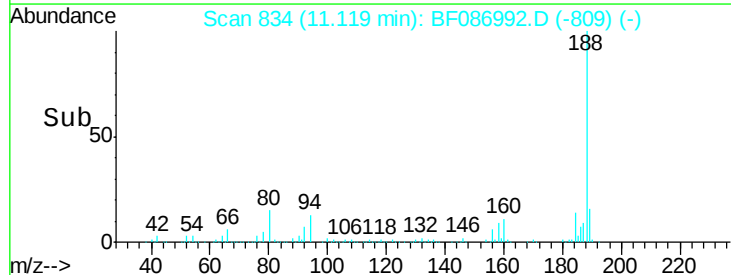
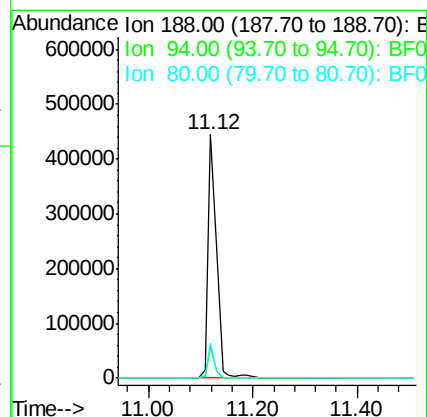
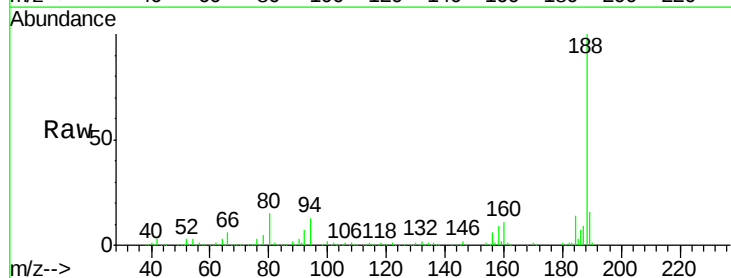
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP25-6-7FT

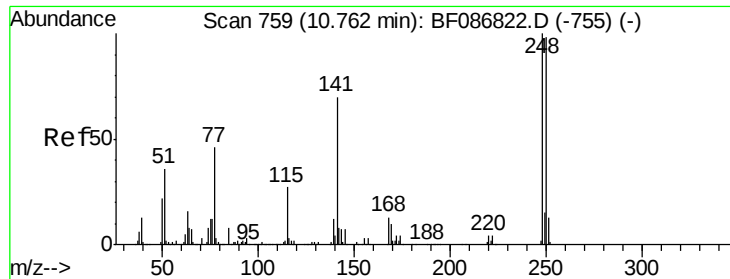
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 2.1   | 44.3  | 66.5#  |
| 89      | 2.3   | 70.0  | 105.0# |
| 182     | 0.0   | 1.8   | 2.6#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.12 min Scan# 834  
 Delta R.T. -0.01 min  
 Lab File: BF086992.D  
 Acq: 14 May 2016 1:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 13.0  | 6.8   | 10.2# |
| 80      | 14.6  | 7.1   | 10.7# |





#66

4-Bromophenyl-phenylether

Concen: 4.13 ng

RT: 10.43 min Scan# 774

Delta R.T. -0.25 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

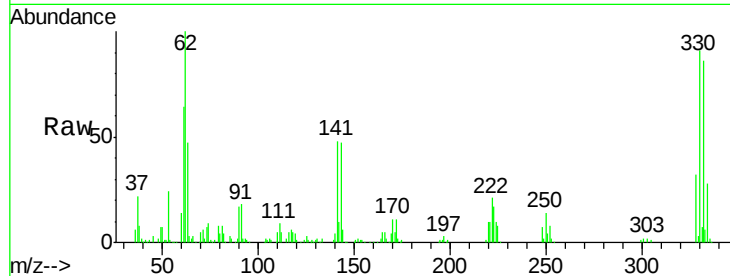
Tgt Ion:248 Resp: 21181

Ion Ratio Lower Upper

248 100

250 202.1 78.6 117.8#

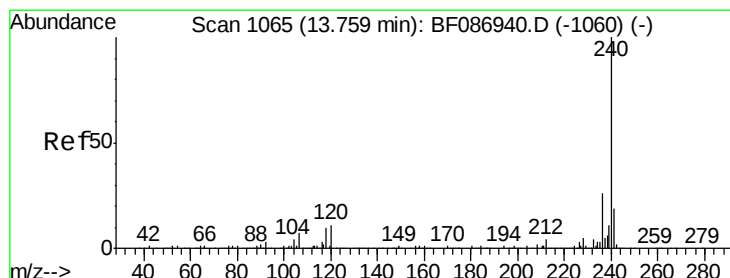
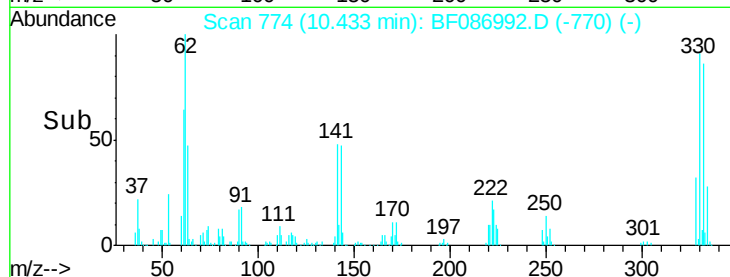
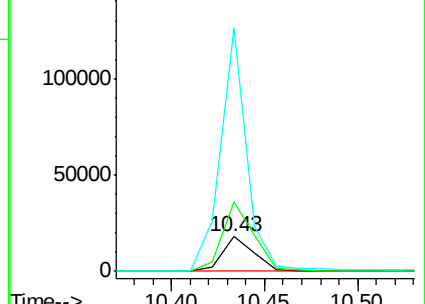
141 704.0 76.0 114.0#



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: 13.75 min Scan# 1064

Delta R.T. -0.01 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

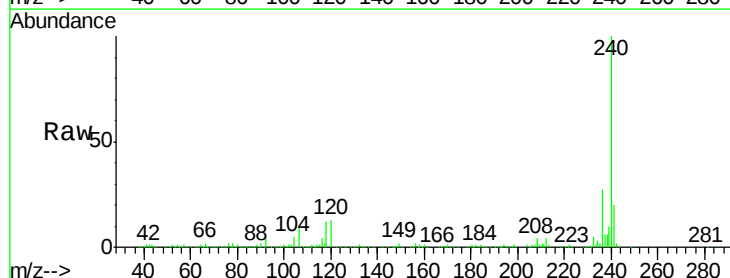
Tgt Ion:240 Resp: 412432

Ion Ratio Lower Upper

240 100

120 13.3 11.2 16.8

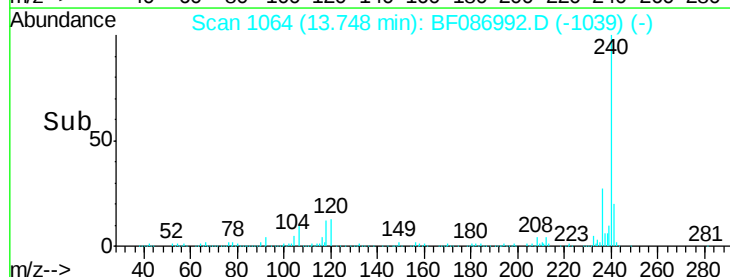
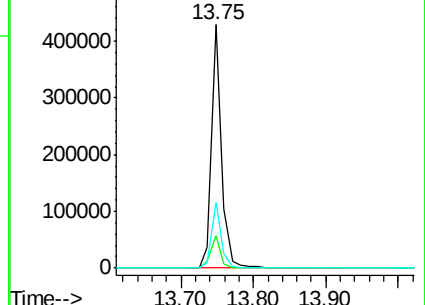
236 26.9 21.2 31.8

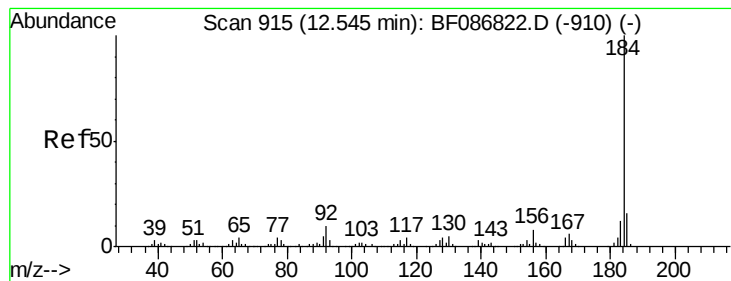


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 36.97 ng

RT: 12.47 min Scan# 952

Delta R.T. -0.00 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

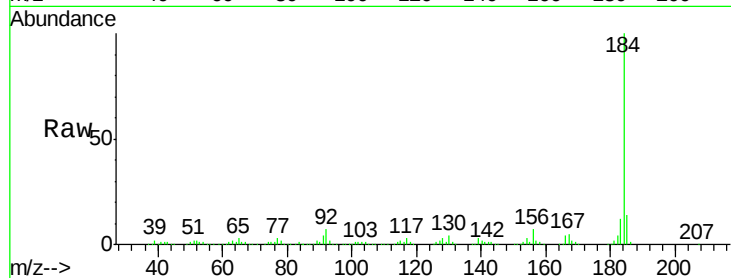
Tgt Ion:184 Resp: 388709

Ion Ratio Lower Upper

184 100

185 14.2 13.6 20.4

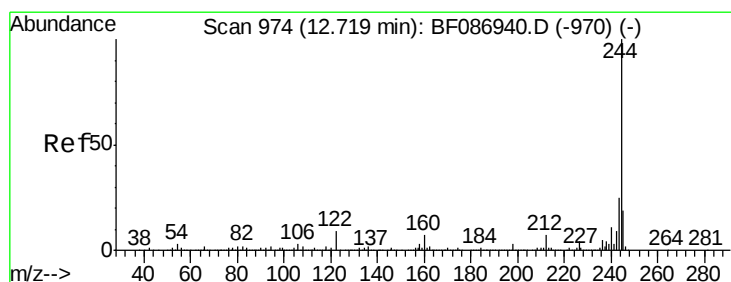
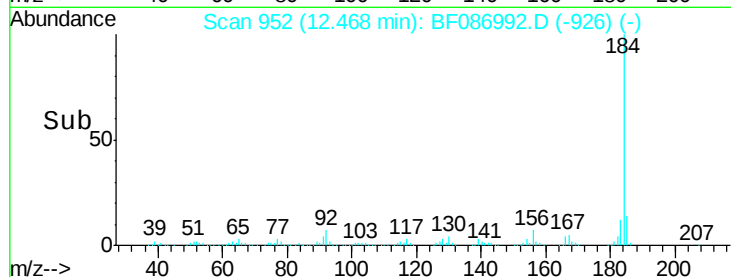
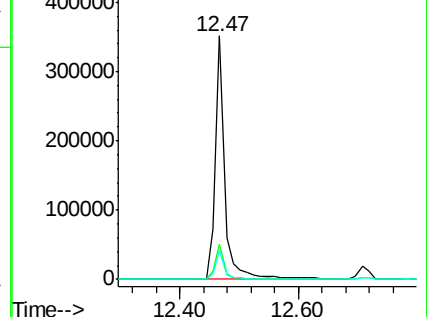
183 11.7 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 80.88 ng

RT: 12.71 min Scan# 973

Delta R.T. -0.01 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

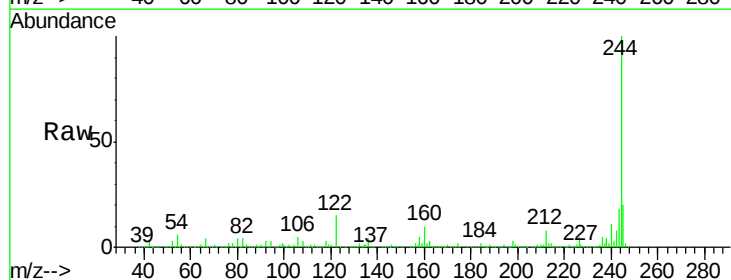
Tgt Ion:244 Resp: 1572289

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

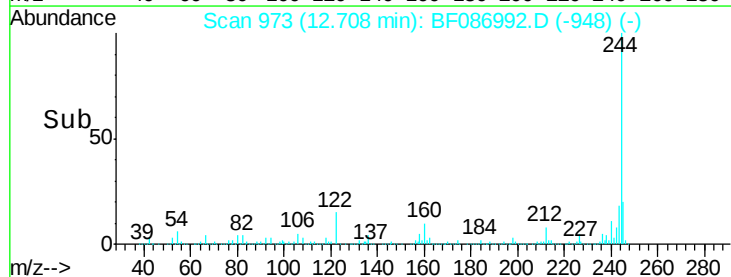
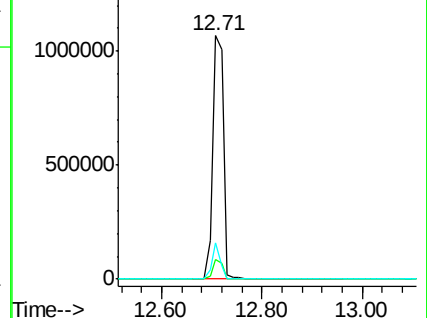
122 14.8 12.0 18.0

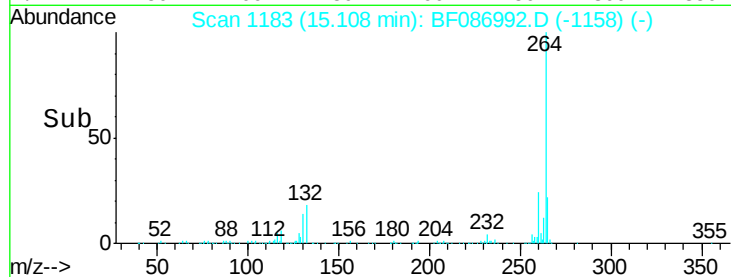
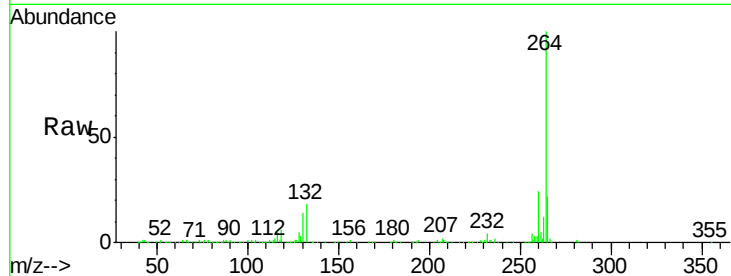
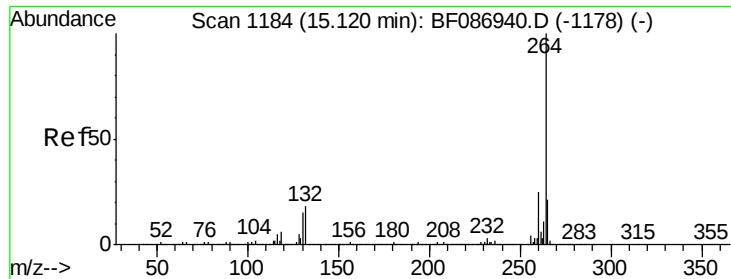


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.11 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF086992.D

Acq: 14 May 2016 1:44

Instrument :

BNA\_F

ClientSampleId :

TP25-6-7FT

Tgt Ion: 264 Resp: 299111

Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

265 21.6 17.3 25.9

