

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062116\  
 Data File : BF088229.D  
 Acq On : 21 Jun 2016 23:10  
 Operator : UM/SJ  
 Sample : PB91486BL  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91486BL

Quant Time: Jun 22 00:52:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 20 17:39:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.65  | 152  | 87987    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.93  | 136  | 338611   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.68  | 164  | 157971   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.16 | 188  | 303281   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.79 | 240  | 258436   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.17 | 264  | 194247   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.24  | 112  | 563456   | 109.48 | ng    | -0.01    |
| 7) Phenol-d6                | 6.31  | 99   | 709412   | 113.73 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.22  | 82   | 457289   | 78.86  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.48 | 330  | 183383   | 109.94 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.02  | 172  | 871313   | 86.76  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.74 | 244  | 797986   | 70.26  | ng    | -0.02    |

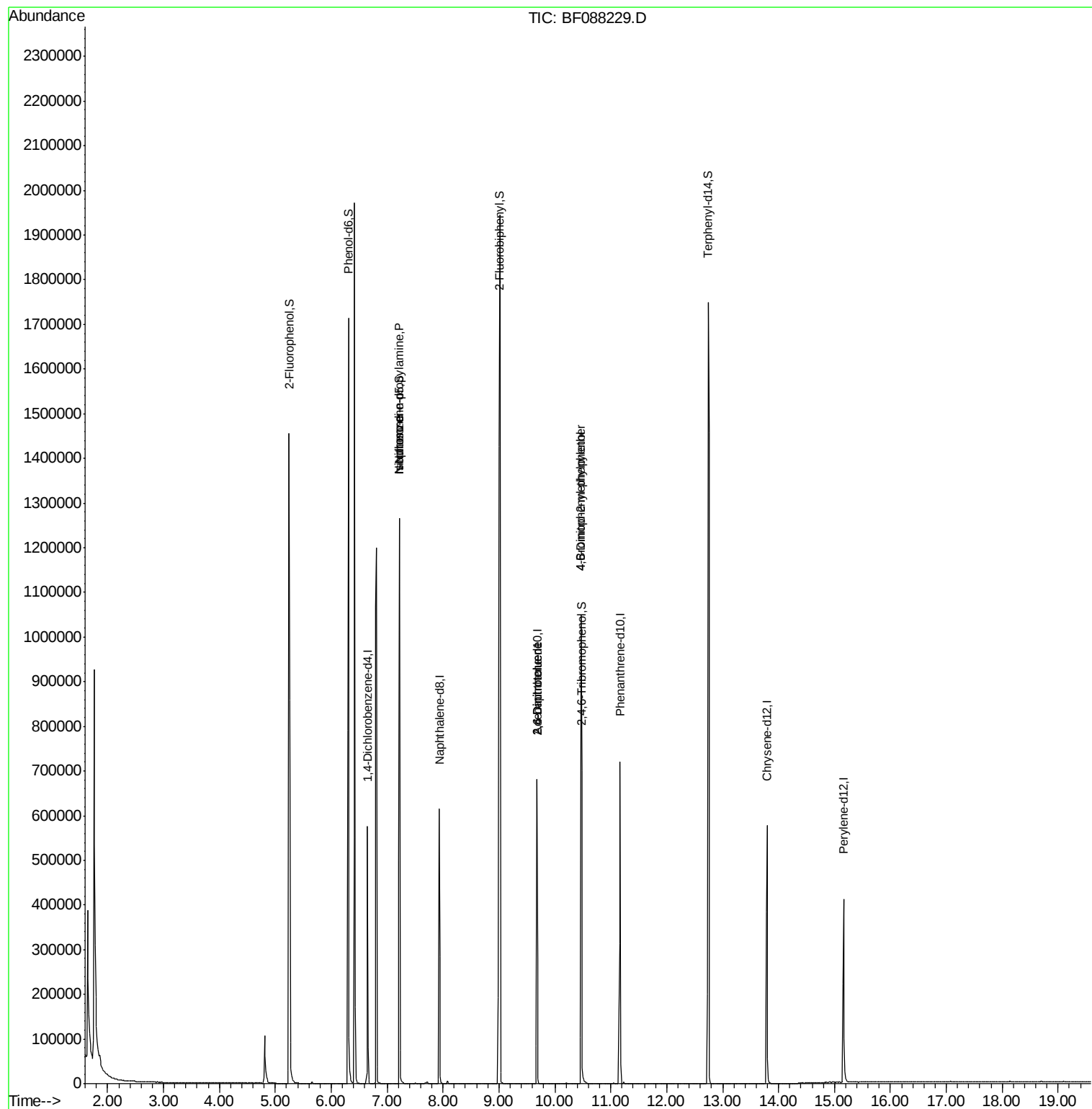
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.42  | 94   | 1049     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.22  | 70   | 59431    | 14.89     | ng    | 69     |
| 25) Isophorone                 | 7.22  | 82   | 333238   | 31.03     | ng    | 65     |
| 45) 1,1'-Biphenyl              | 9.02  | 154  | 1698     | Below Cal | #     | 1      |
| 50) 2,6-Dinitrotoluene         | 9.68  | 165  | 20139    | 7.68      | ng    | 37     |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165  | 20139    | 5.98      | ng    | 36     |
| 57) Fluorene                   | 10.47 | 166  | 8095     | Below Cal | #     | 88     |
| 64) 4,6-Dinitro-2-methylphenol | 10.47 | 198  | 232      | 2.28      | ng    | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.47 | 248  | 11312    | 3.48      | 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: 6.65 min Scan# 443

Delta R.T. -0.02 min

Lab File: BF088229.D

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Instrument :

BNA\_F

ClientSampleId :

PB91486BL

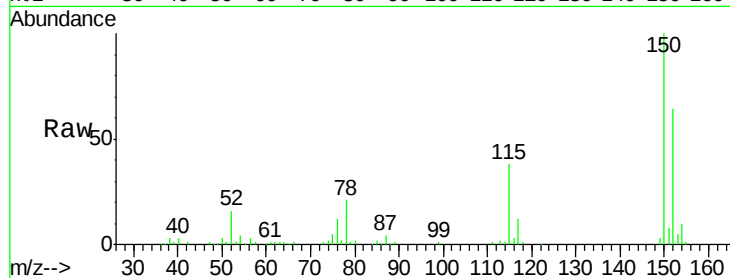
Tgt Ion:152 Resp: 87987

Ion Ratio Lower Upper

152 100

150 156.5 123.8 185.6

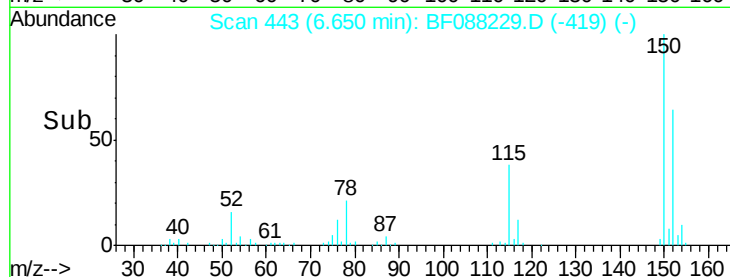
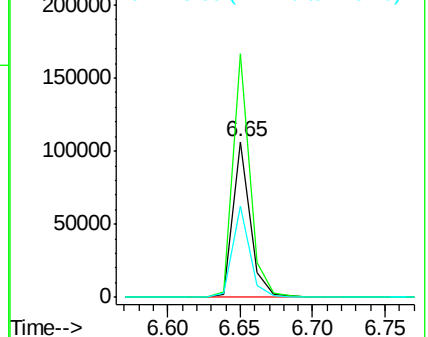
115 58.8 39.6 59.4



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: 109.48 ng

RT: 5.24 min Scan# 320

Delta R.T. -0.01 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

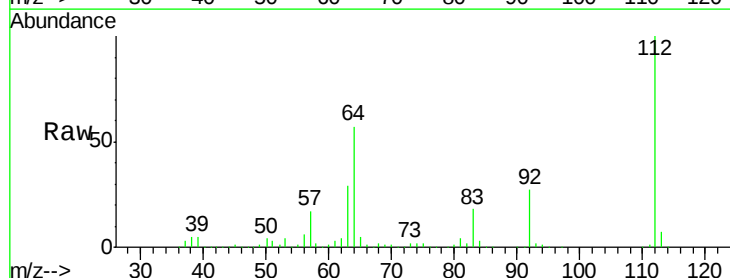
Tgt Ion:112 Resp: 563456

Ion Ratio Lower Upper

112 100

64 56.9 42.2 63.2

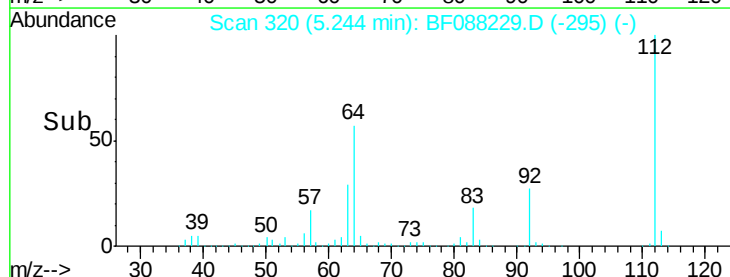
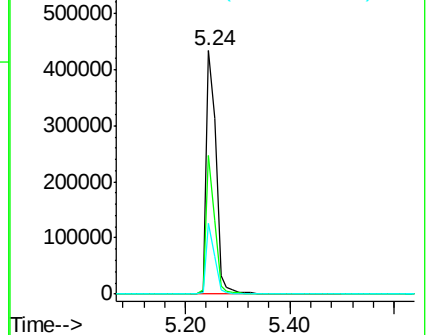
63 29.1 21.8 32.8



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: 113.73 ng

RT: 6.31 min Scan# 413

Delta R.T. -0.02 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

Instrument :

BNA\_F

ClientSampleId :

PB91486BL

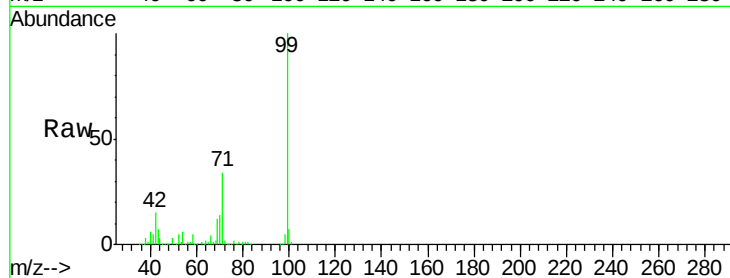
Tgt Ion: 99 Resp: 709412

Ion Ratio Lower Upper

99 100

42 14.8 12.2 18.2

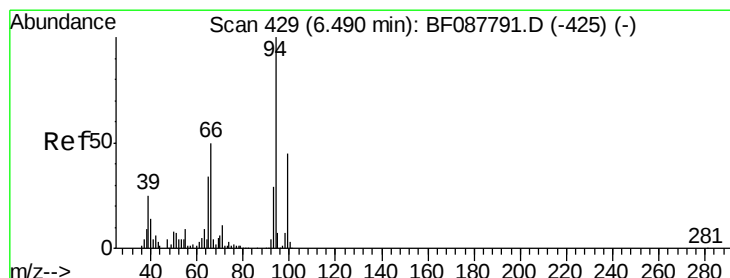
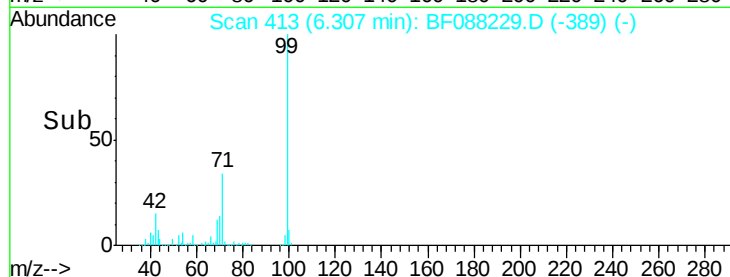
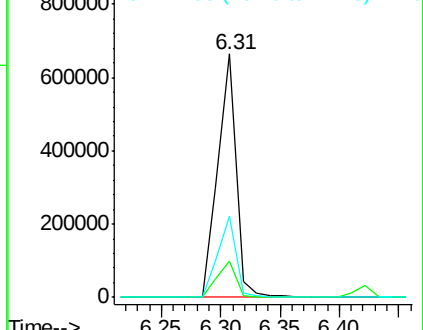
71 33.5 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.42 min Scan# 423

Delta R.T. 0.08 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

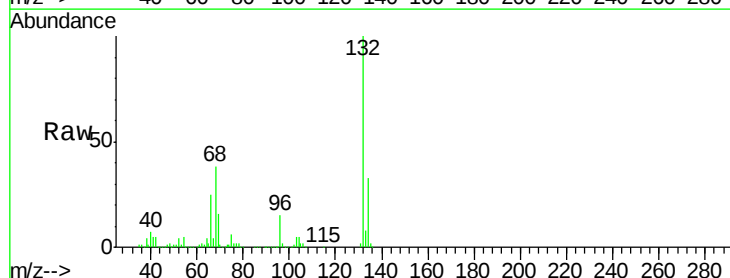
Tgt Ion: 94 Resp: 1049

Ion Ratio Lower Upper

94 100

65 1004.0 5.9 45.9#

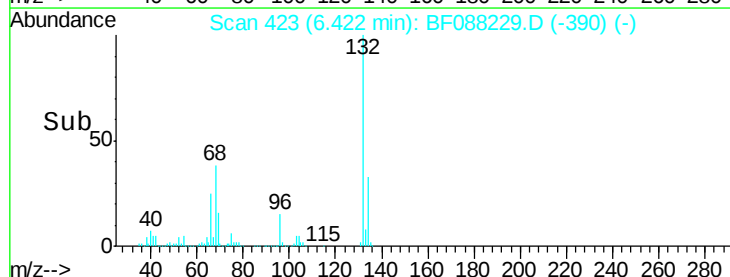
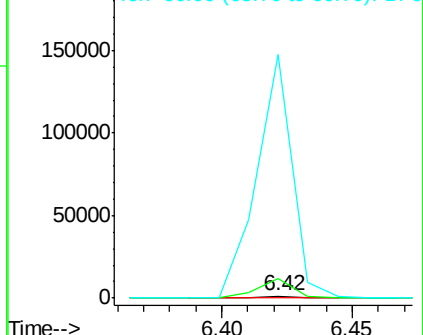
66 12438.4 14.0 54.0#



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

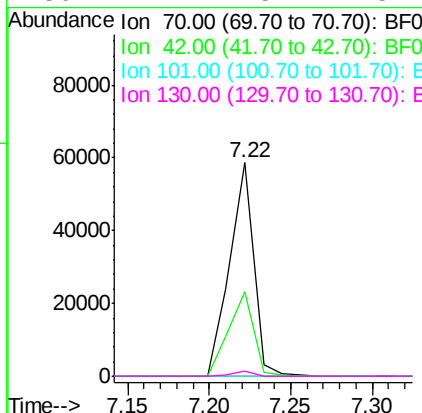
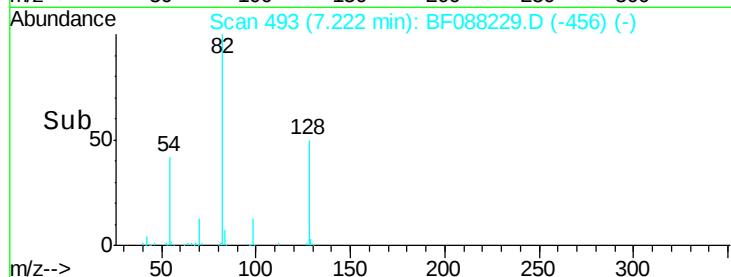
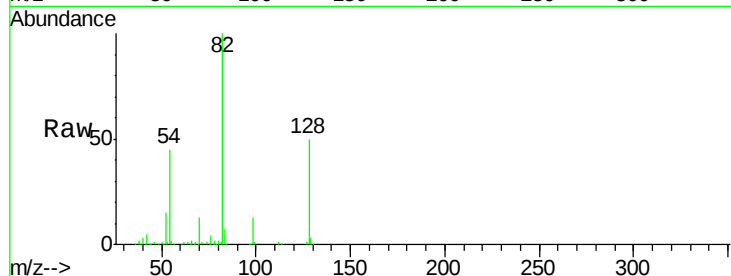




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.89 ng  
RT: 7.22 min Scan# 493  
Delta R.T. 0.13 min  
Lab File: BF088229.D  
Acq: 21 Jun 2016 23:10

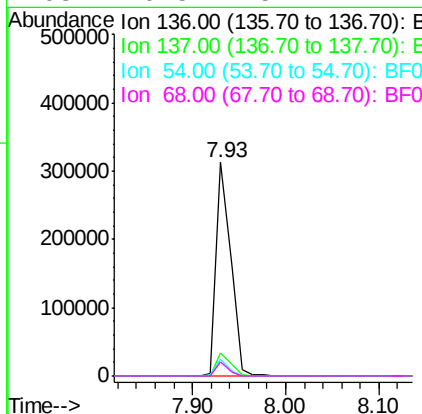
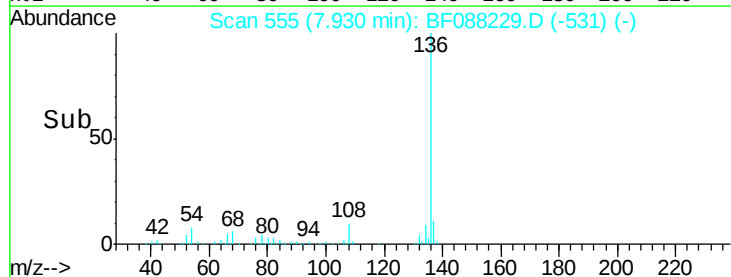
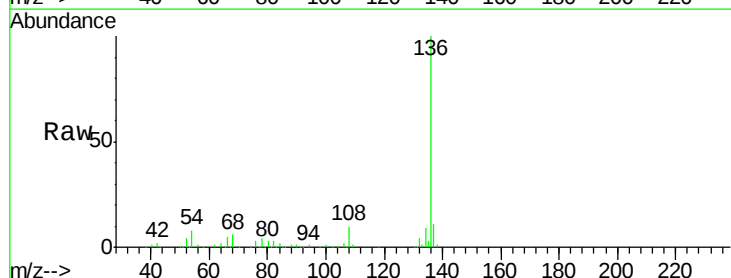
Instrument :  
BNA\_F  
ClientSampleId :  
PB91486BL

Tgt Ion: 70 Resp: 59431  
Ion Ratio Lower Upper  
70 100  
42 39.4 49.6 74.4#  
101 0.0 7.1 10.7#  
130 2.4 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.93 min Scan# 555  
Delta R.T. -0.02 min  
Lab File: BF088229.D  
Acq: 21 Jun 2016 23:10

Tgt Ion: 136 Resp: 338611  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.1 13.7  
54 7.9 6.6 10.0  
68 6.5 5.1 7.7

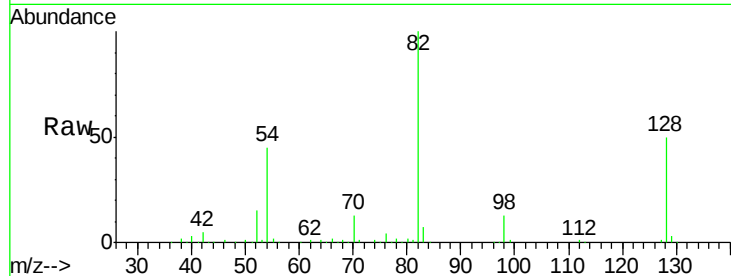




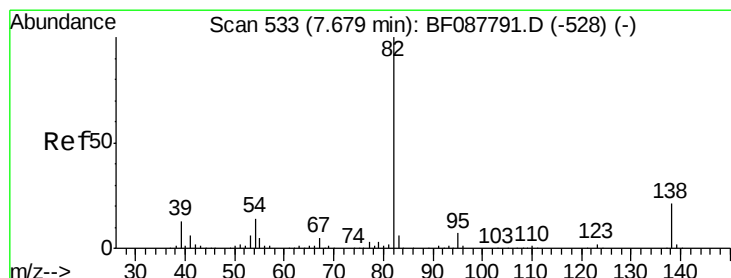
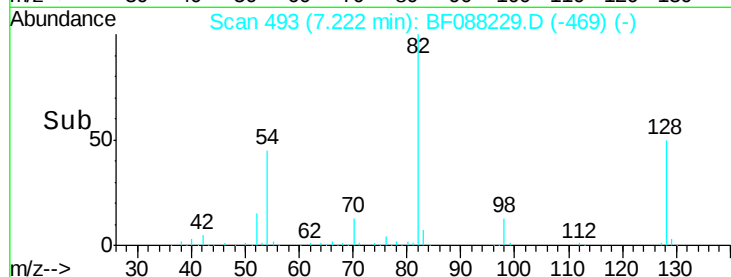
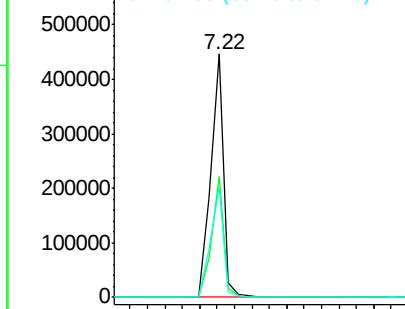
#23  
 Nitrobenzene-d5  
 Concen: 78.86 ng  
 RT: 7.22 min Scan# 493  
 Delta R.T. -0.02 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91486BL

Tgt Ion: 82 Resp: 457289  
 Ion Ratio Lower Upper  
 82 100  
 128 49.8 35.9 53.9  
 54 45.2 40.9 61.3

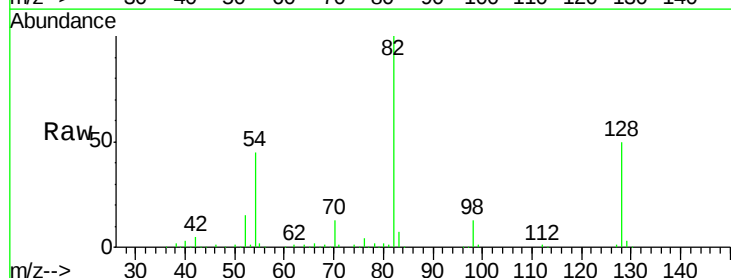


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

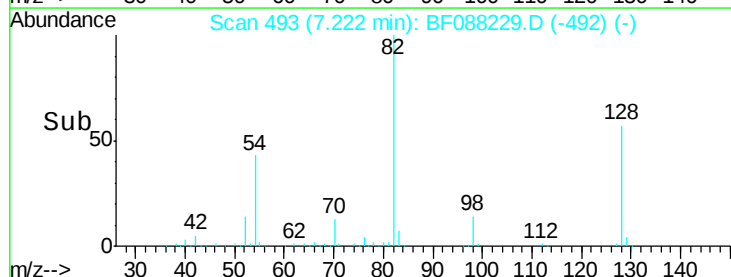
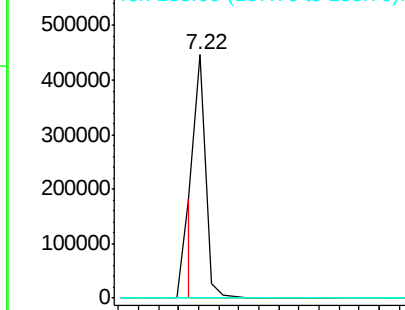


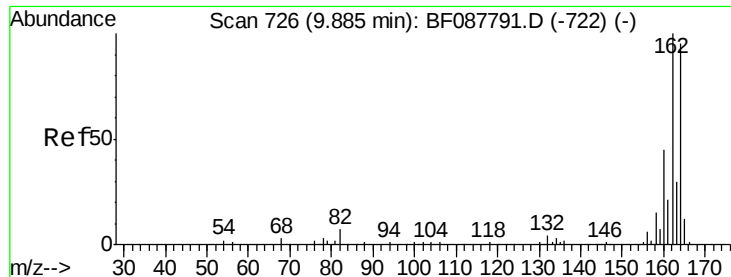
#25  
 Isophorone  
 Concen: 31.03 ng  
 RT: 7.22 min Scan# 493  
 Delta R.T. -0.29 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

Tgt Ion: 82 Resp: 333238  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 14.6 21.8#



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): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.68 min Scan# 708

Delta R.T. -0.02 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

Instrument :

BNA\_F

ClientSampleId :

PB91486BL

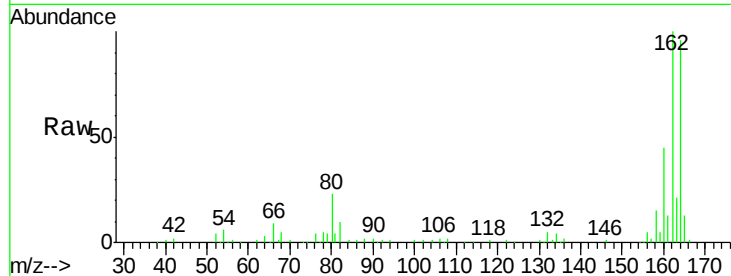
Tgt Ion:164 Resp: 157971

Ion Ratio Lower Upper

164 100

162 103.7 85.4 128.2

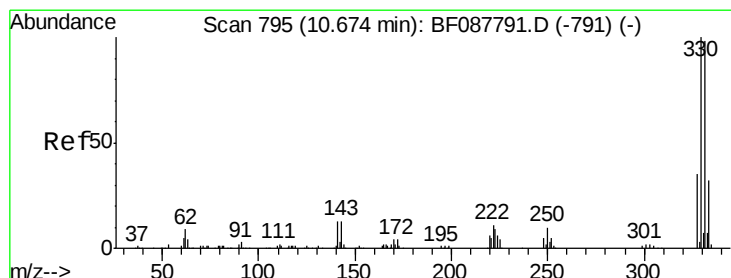
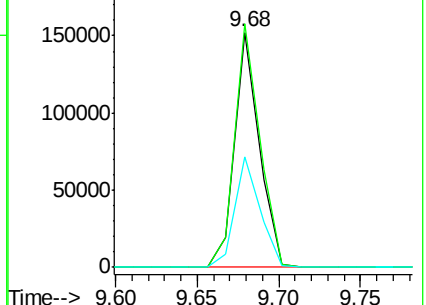
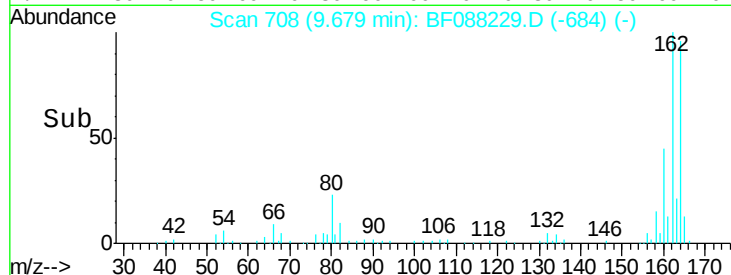
160 47.0 39.5 59.3



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: 109.94 ng

RT: 10.48 min Scan# 778

Delta R.T. -0.01 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

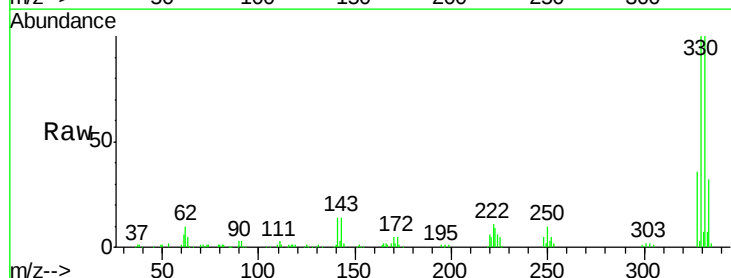
Tgt Ion:330 Resp: 183383

Ion Ratio Lower Upper

330 100

332 97.7 0.0 0.0#

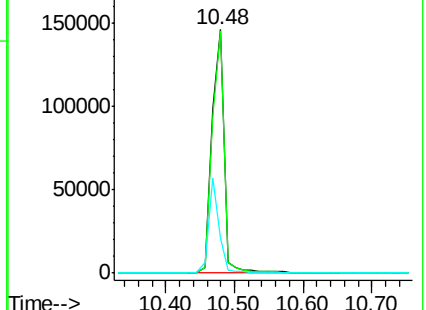
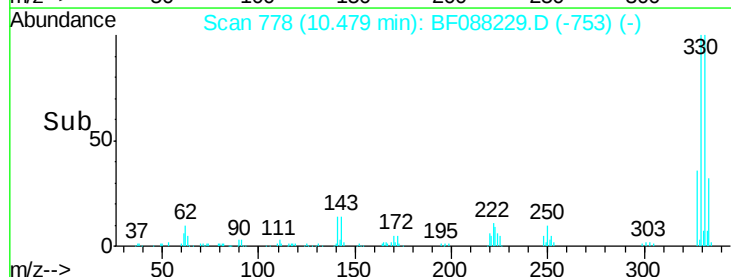
141 33.4 0.0 0.0#



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

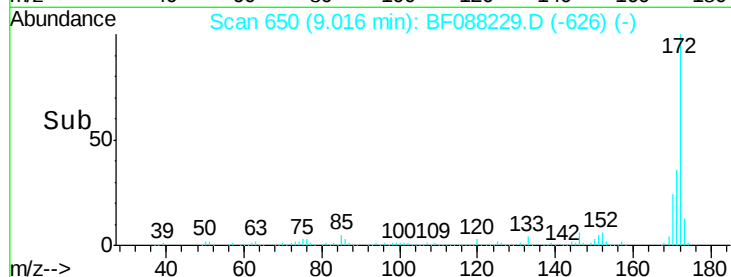
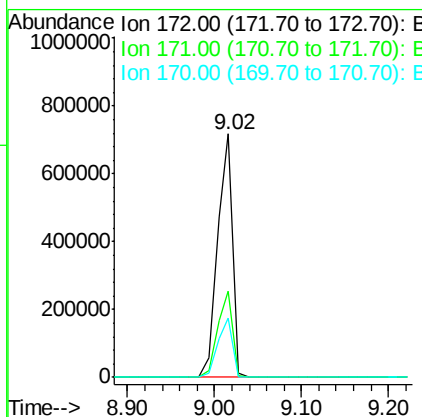
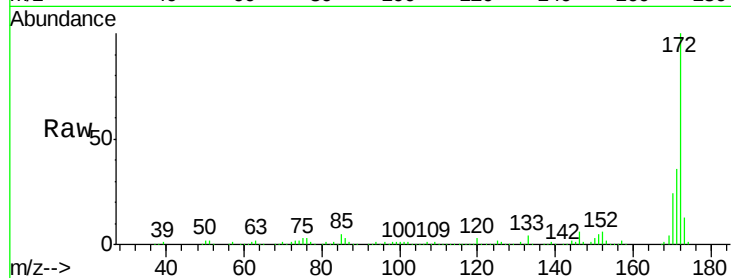




#44  
 2-Fluorobiphenyl  
 Concen: 86.76 ng  
 RT: 9.02 min Scan# 650  
 Delta R.T. -0.02 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

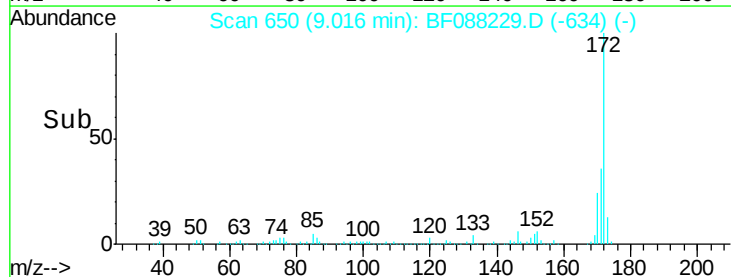
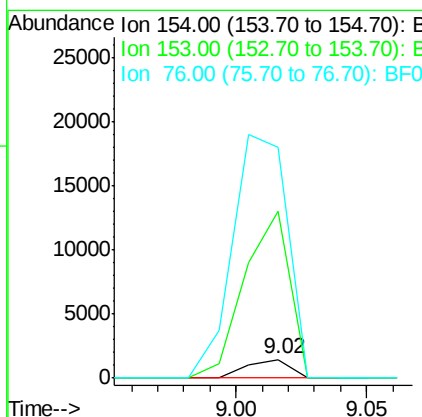
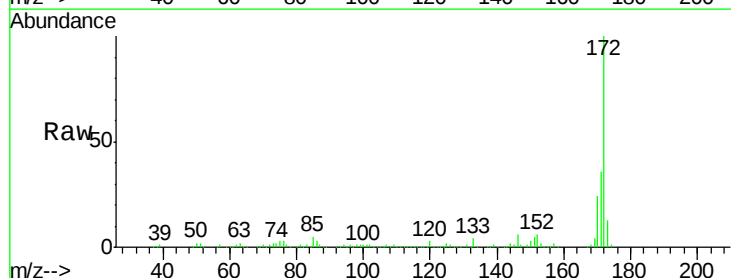
Instrument :  
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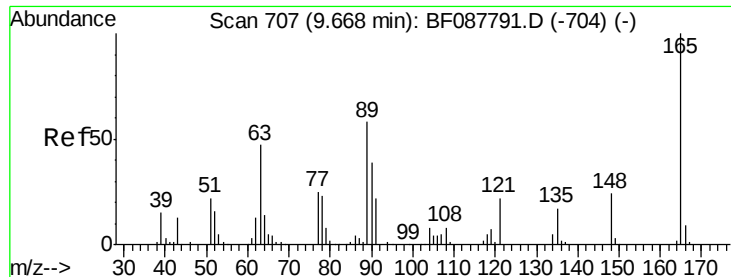
Tgt Ion:172 Resp: 871313  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.6 43.0  
 170 24.1 19.2 28.8



#45  
 1,1'-Biphenyl  
 Concen: Below Cal  
 RT: 9.02 min Scan# 650  
 Delta R.T. -0.11 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

Tgt Ion:154 Resp: 1698  
 Ion Ratio Lower Upper  
 154 100  
 153 905.1 20.6 60.6#  
 76 1248.4 0.0 35.1#

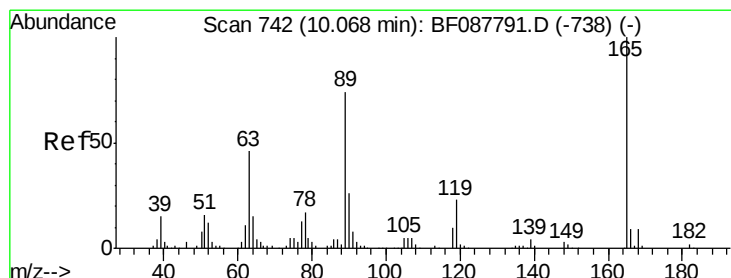
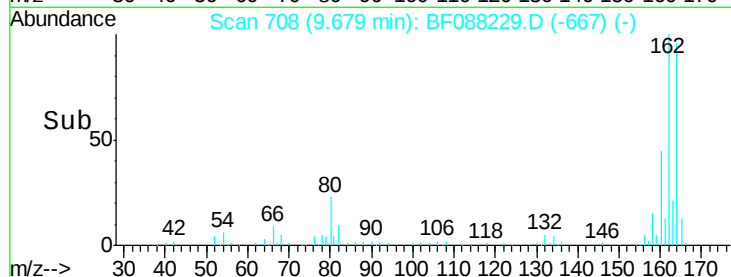
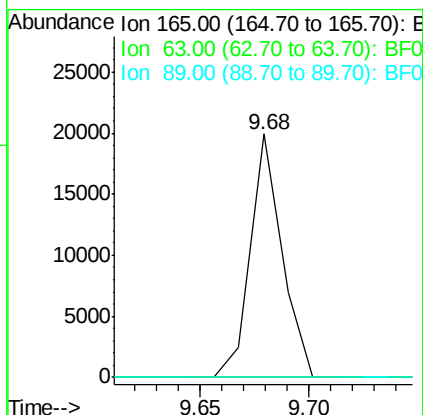
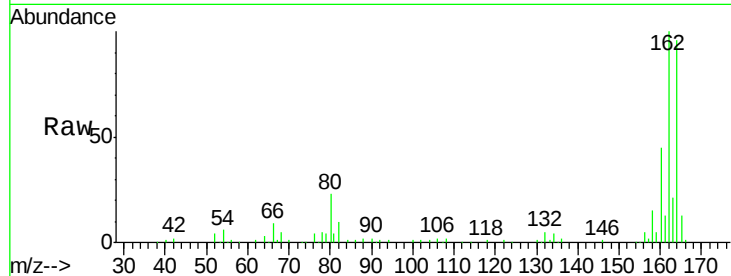




#50  
 2,6-Dinitrotoluene  
 Concen: 7.68 ng  
 RT: 9.68 min Scan# 708  
 Delta R.T. 0.17 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

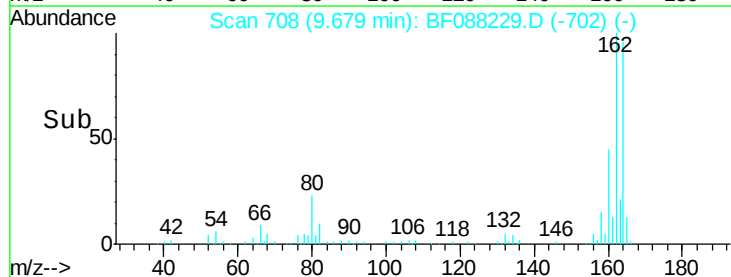
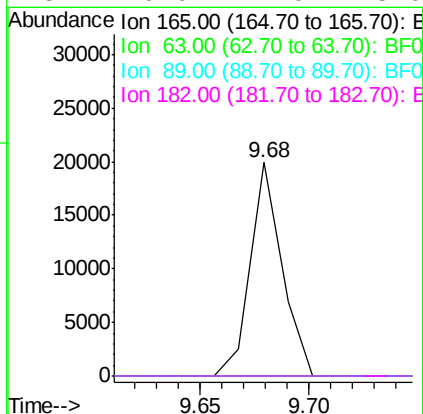
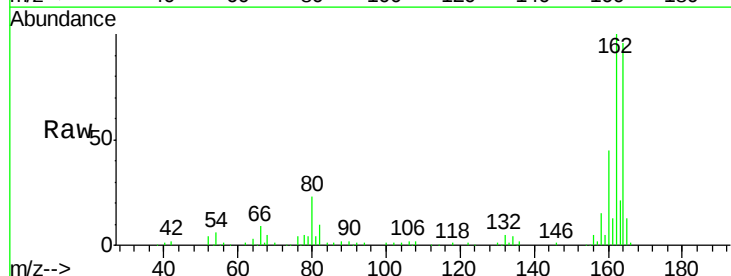
Instrument :  
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 ClientSampleID :  
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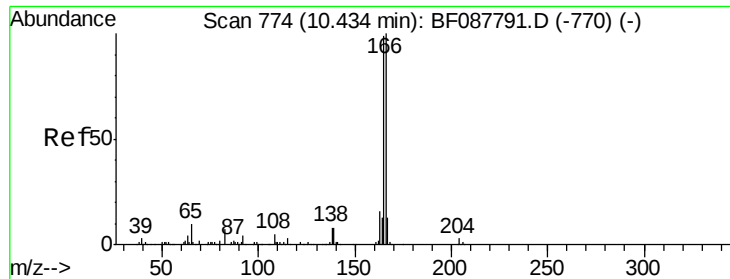
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.1  | 42.1# |
| 89      | 0.0   | 32.2  | 48.2# |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.98 ng  
 RT: 9.68 min Scan# 708  
 Delta R.T. -0.23 min  
 Lab File: BF088229.D  
 Acq: 21 Jun 2016 23:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.0  | 33.0# |
| 89      | 0.0   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |





#57

Fluorene

Concen: Below Cal

RT: 10.47 min Scan# 777

Delta R.T. 0.22 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

Instrument :

BNA\_F

ClientSampleId :

PB91486BL

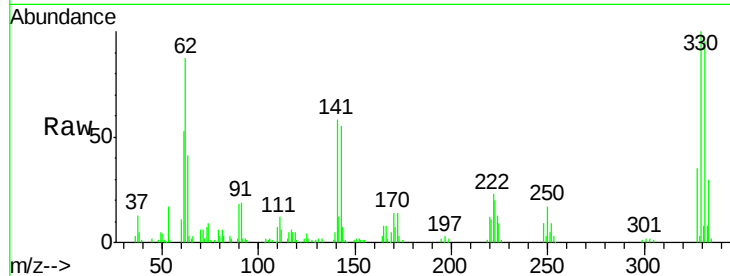
Tgt Ion:166 Resp: 8095

Ion Ratio Lower Upper

166 100

165 104.1 77.8 116.8

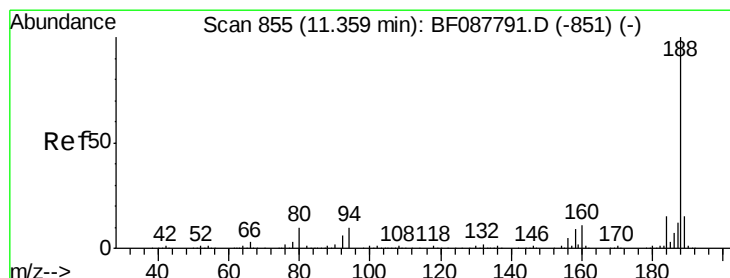
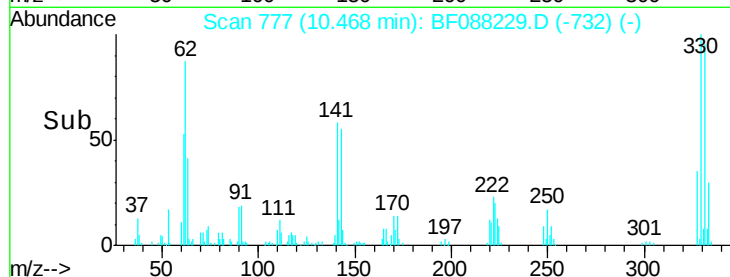
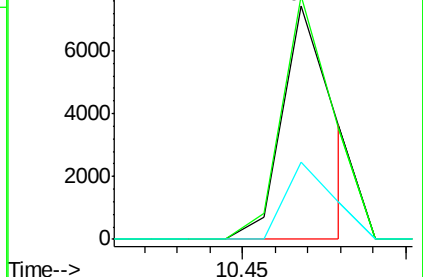
167 33.1 11.2 16.8#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.16 min Scan# 838

Delta R.T. -0.01 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

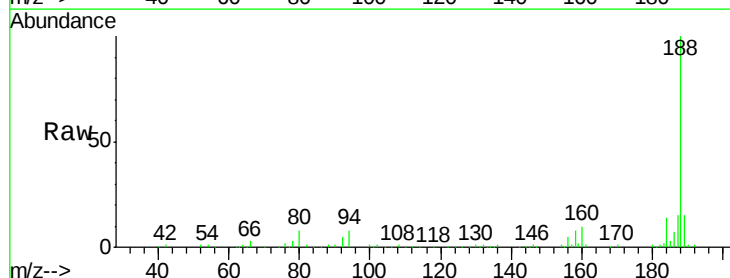
Tgt Ion:188 Resp: 303281

Ion Ratio Lower Upper

188 100

94 8.2 9.0 13.6#

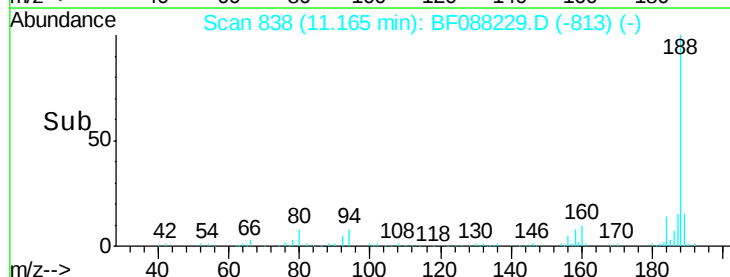
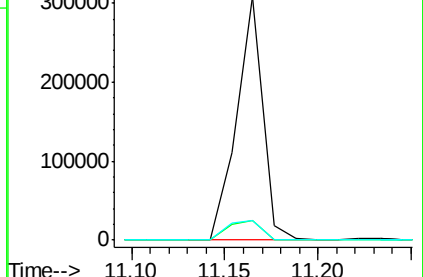
80 8.1 10.0 15.0#

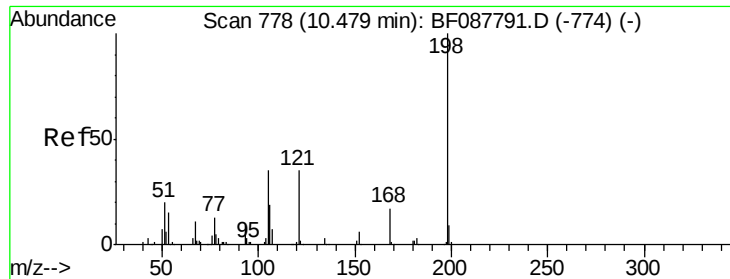


Abundance Ion 188.00 (187.70 to 188.70): E

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: 2.28 ng

RT: 10.47 min Scan# 777

Delta R.T. 0.15 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

Instrument :

BNA\_F

ClientSampleId :

PB91486BL

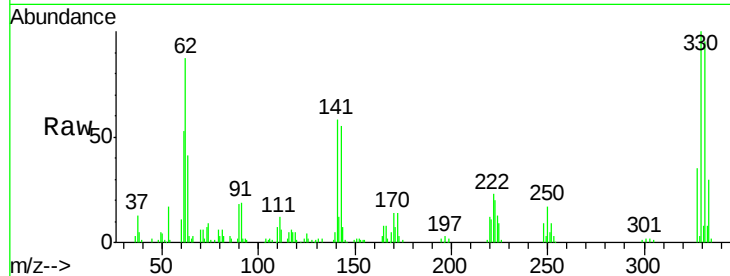
Tgt Ion:198 Resp: 232

Ion Ratio Lower Upper

198 100

51 187.9 39.6 79.6#

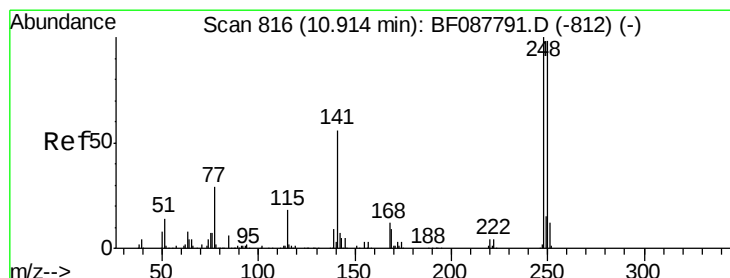
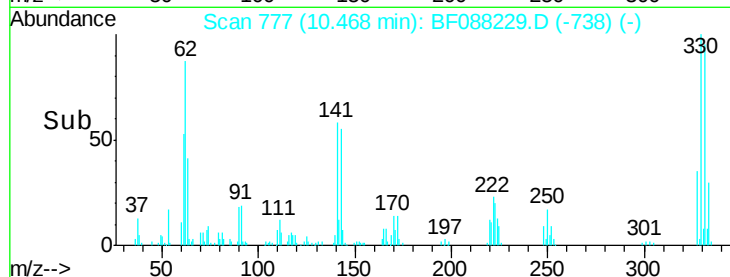
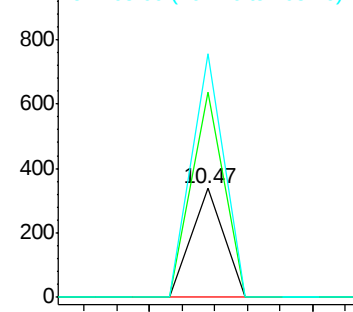
105 223.7 36.6 76.6#



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: 3.48 ng

RT: 10.47 min Scan# 777

Delta R.T. -0.26 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

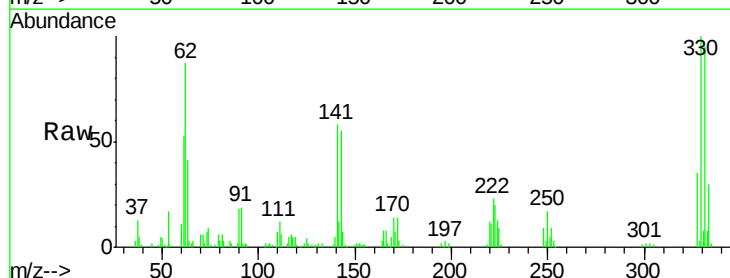
Tgt Ion:248 Resp: 11312

Ion Ratio Lower Upper

248 100

250 196.9 77.1 115.7#

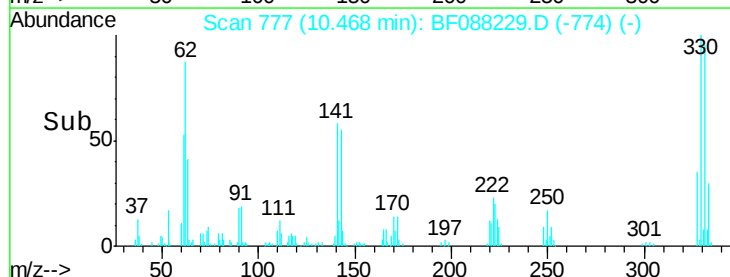
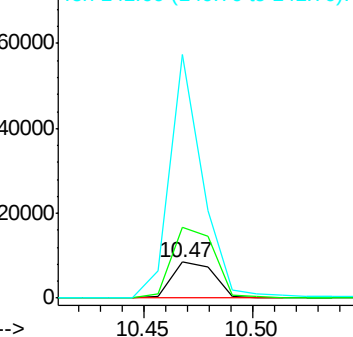
141 682.0 50.6 76.0#

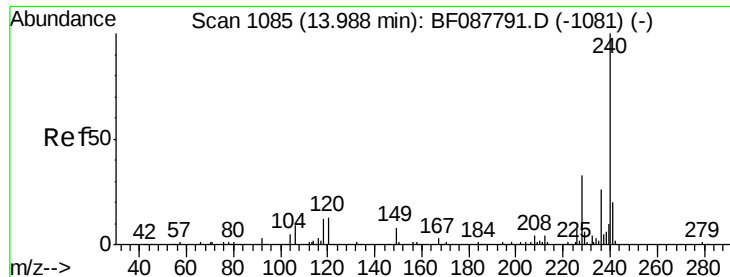


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.79 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

Instrument :

BNA\_F

ClientSampleId :

PB91486BL

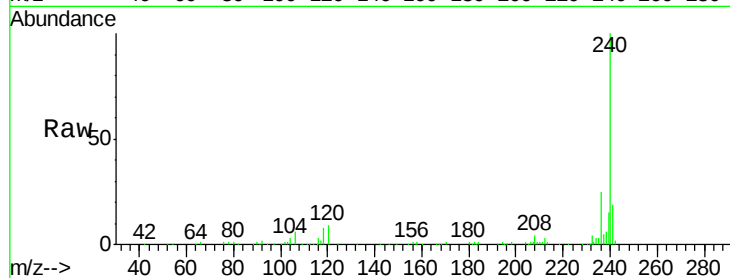
Tgt Ion:240 Resp: 258436

Ion Ratio Lower Upper

240 100

120 9.1 6.8 10.2

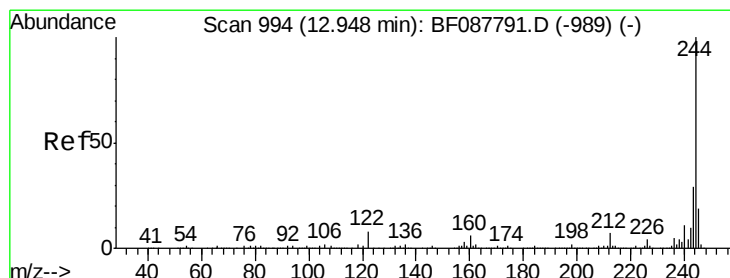
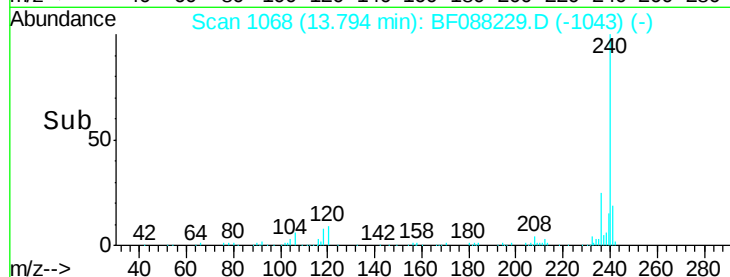
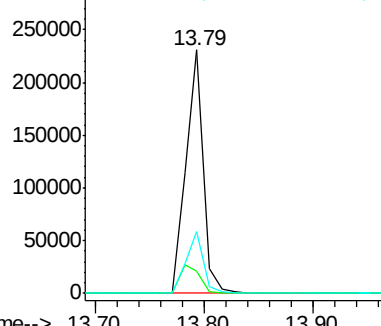
236 25.4 20.2 30.2



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: 70.26 ng

RT: 12.74 min Scan# 976

Delta R.T. -0.02 min

Lab File: BF088229.D

Acq: 21 Jun 2016 23:10

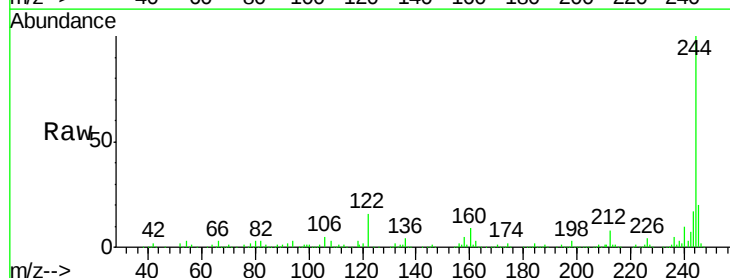
Tgt Ion:244 Resp: 797986

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

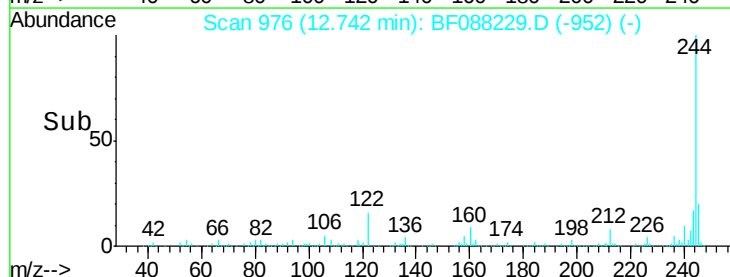
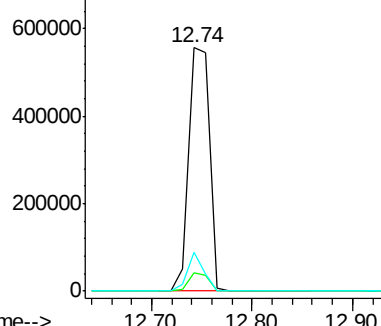
122 16.0 11.2 16.8

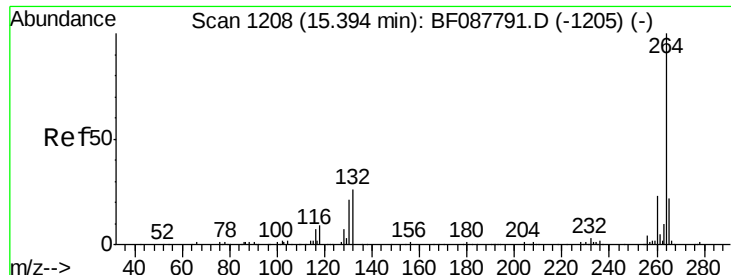


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

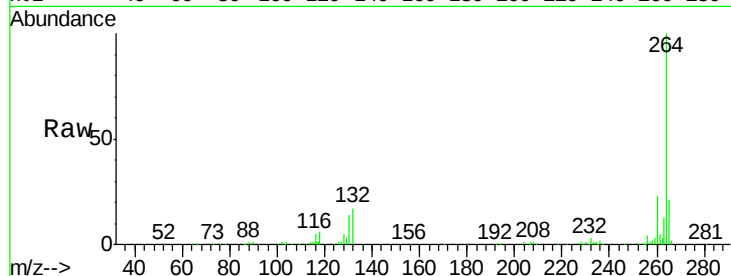




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.17 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF088229.D  
Acq: 21 Jun 2016 23:10

Instrument :  
BNA\_F  
ClientSampleId :  
PB91486BL

Tgt Ion: 264 Resp: 194247  
Ion Ratio Lower Upper  
264 100  
260 23.4 19.2 28.8  
265 21.4 16.9 25.3



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

