

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111516\  
 Data File : BF091168.D  
 Acq On : 15 Nov 2016 9:45  
 Operator : UM/SJ  
 Sample : PB94688BL  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94688BL

Quant Time: Nov 16 00:13:29 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 08 12:59:29 2016  
 Response via : Initial Calibration

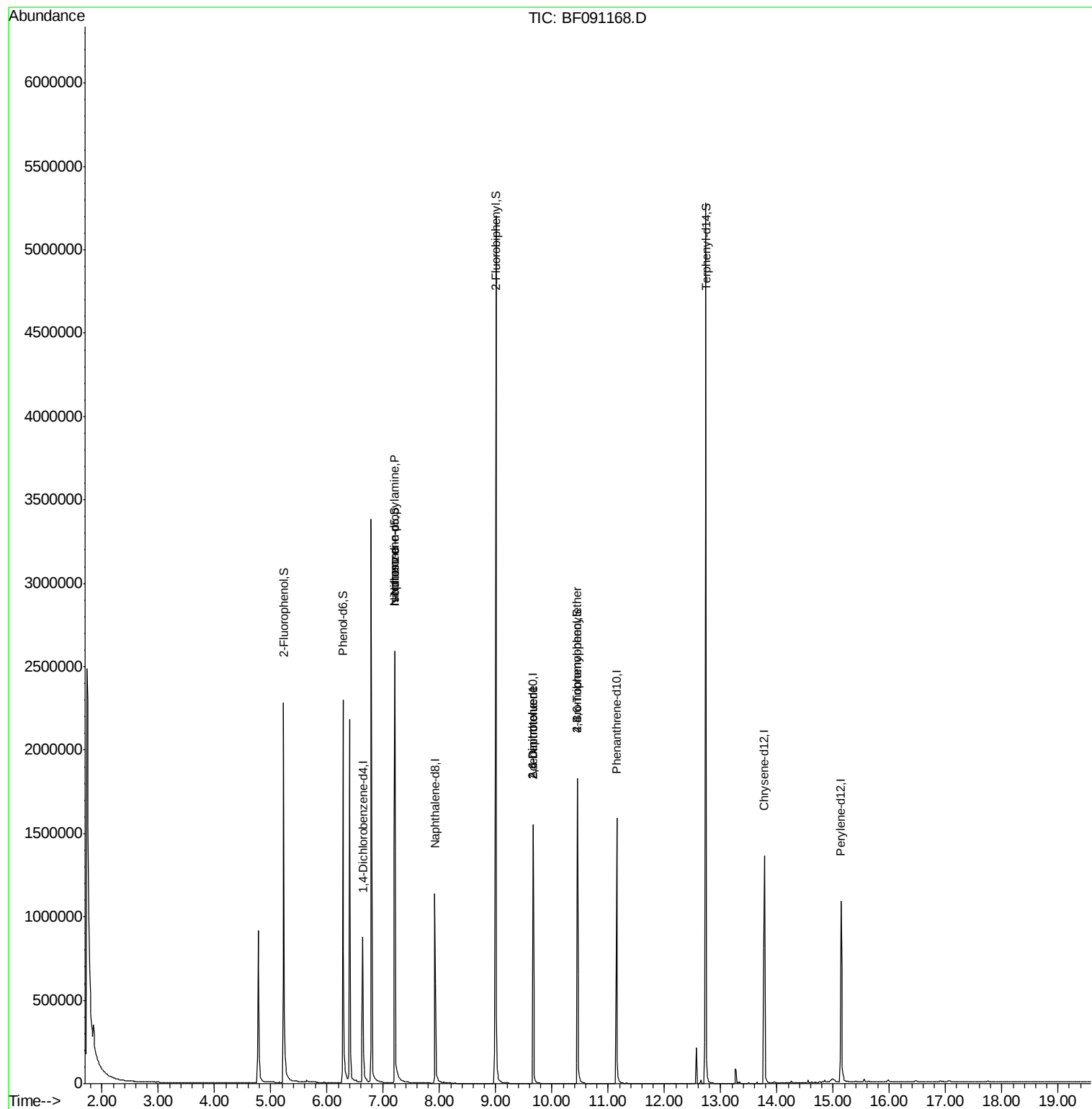
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 166769   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8             | 7.92  | 136  | 708803   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 375359   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.15 | 188  | 690785   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12               | 13.78 | 240  | 619161   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12               | 15.14 | 264  | 509303   | 20.00 | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 783750   | 77.62 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.28  | 99   | 959711   | 70.02 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 1181949  | 90.96 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.45 | 330  | 231103   | 68.10 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 1865365  | 85.56 | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.74 | 244  | 2179840  | 87.86 | ng    | -0.02    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 159615   | 16.81 | ng    | # 74     |
| 25) Isophorone                 | 7.21  | 82   | 1161146  | 46.38 | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.66  | 165  | 49043    | 9.30  | ng    | # 11     |
| 56) 2,4-Dinitrotoluene         | 9.66  | 165  | 49047    | 7.31  | ng    | # 26     |
| 66) 4-Bromophenyl-phenylether  | 10.45 | 248  | 15928    | 2.22  | ng    | # 1      |

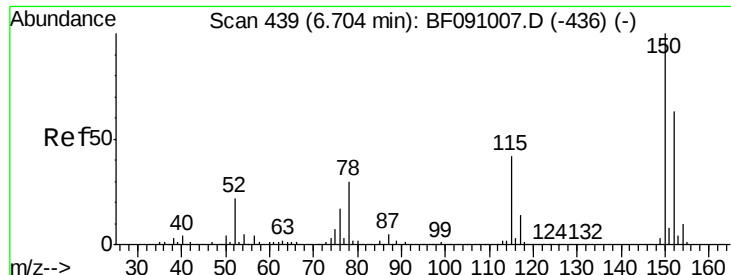
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111516\  
Data File : BF091168.D  
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Sample : PB94688BL  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB94688BL

Quant Time: Nov 16 00:13:29 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 08 12:59:29 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 433

Delta R.T. -0.02 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

Instrument :

BNA\_F

ClientSampled :

PB94688BL

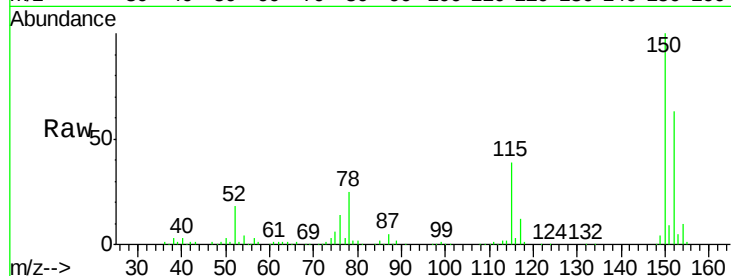
Tgt Ion:152 Resp: 166769

Ion Ratio Lower Upper

152 100

150 158.7 126.8 190.2

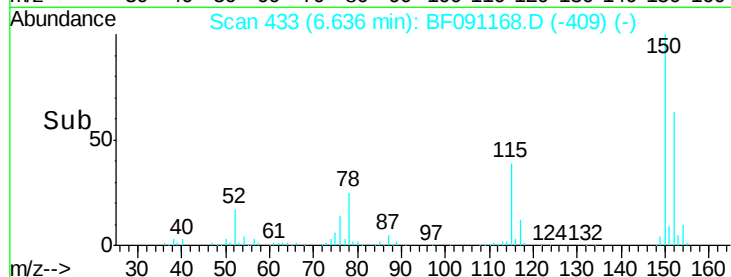
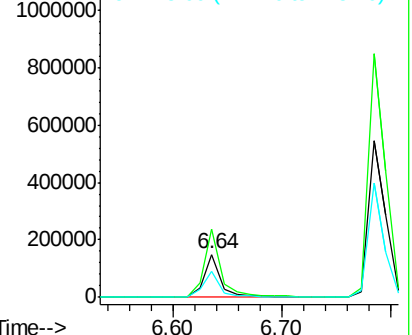
115 61.8 53.3 79.9



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: 77.62 ng

RT: 5.23 min Scan# 310

Delta R.T. -0.01 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

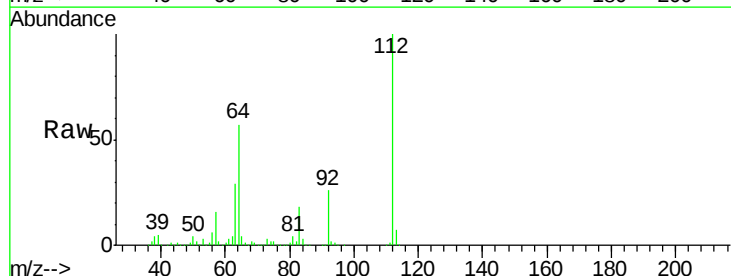
Tgt Ion:112 Resp: 783750

Ion Ratio Lower Upper

112 100

64 57.4 55.8 83.6

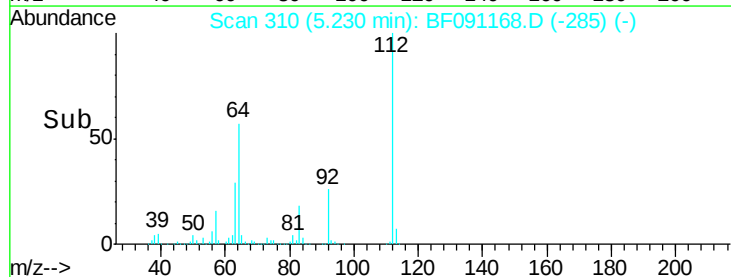
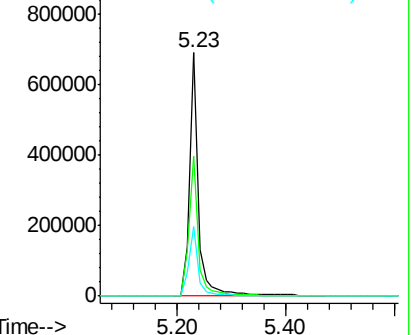
63 28.7 28.0 42.0

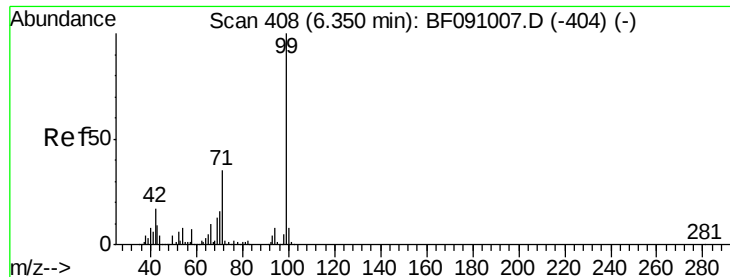


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 70.02 ng

RT: 6.28 min Scan# 402

Delta R.T. -0.03 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

Instrument :

BNA\_F

ClientSampled :

PB94688BL

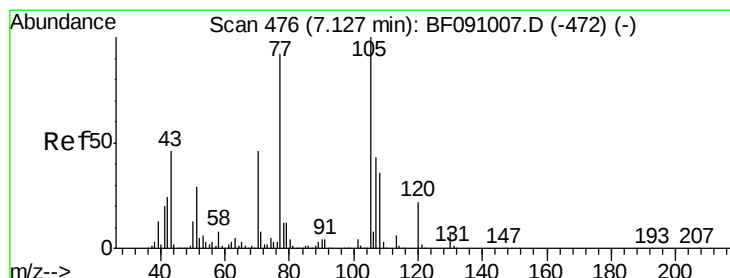
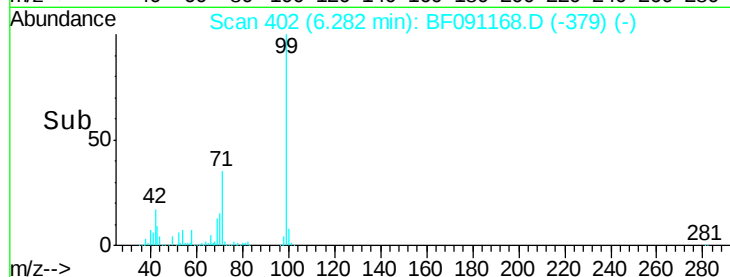
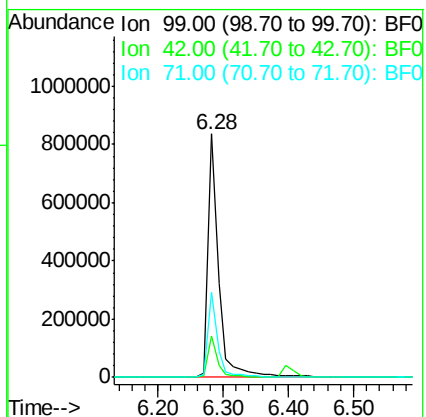
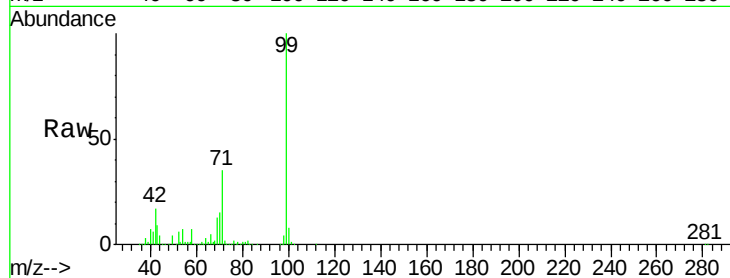
Tgt Ion: 99 Resp: 959711

Ion Ratio Lower Upper

99 100

42 16.9 13.9 20.9

71 35.0 27.8 41.8



#19

n-Nitroso-di-n-propylamine

Concen: 16.81 ng

RT: 7.21 min Scan# 483

Delta R.T. 0.11 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

Tgt Ion: 70 Resp: 159615

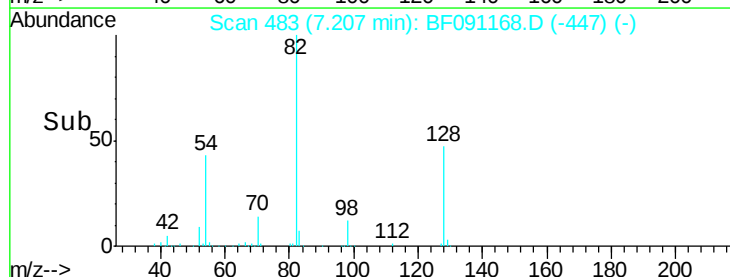
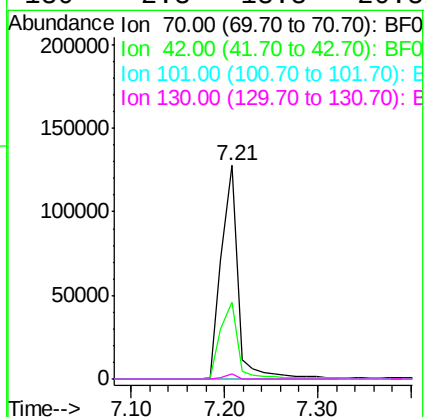
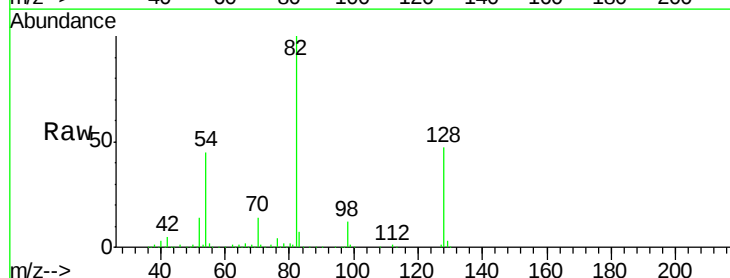
Ion Ratio Lower Upper

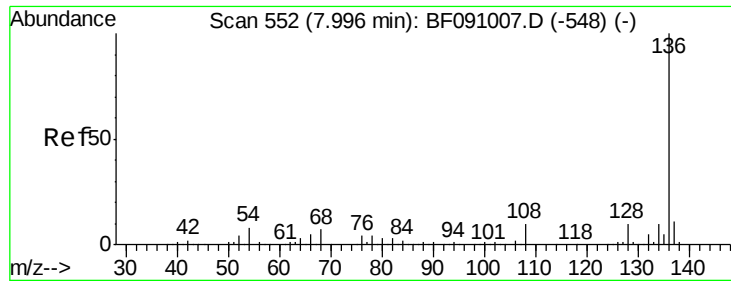
70 100

42 35.9 41.7 62.5#

101 0.0 6.7 10.1#

130 2.3 13.8 20.8#

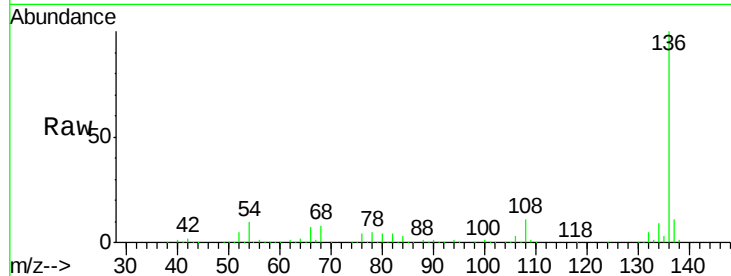




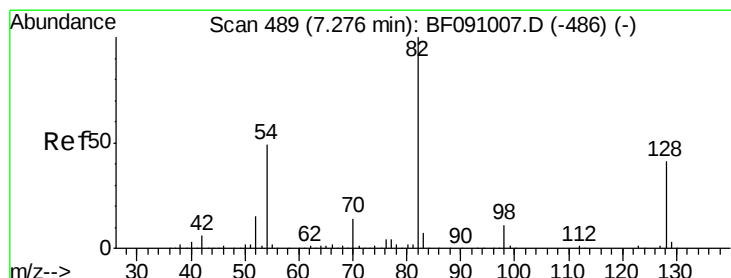
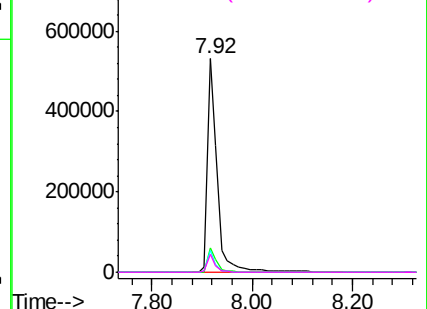
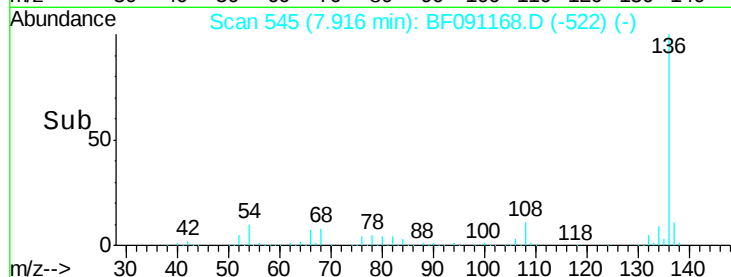
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.92 min Scan# 545  
Delta R.T. -0.03 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

Instrument :  
BNA\_F  
ClientSampleId :  
PB94688BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 708803 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 10.0  | 6.2   | 9.2#   |
| 68       | 8.2   | 5.5   | 8.3    |

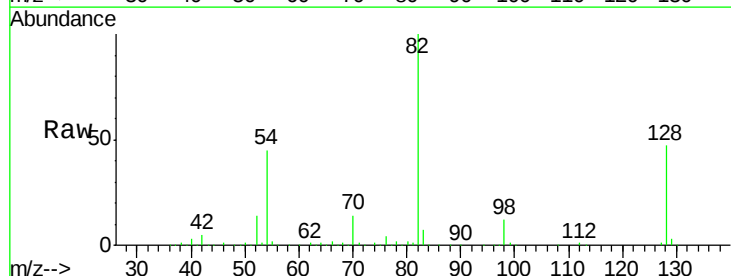


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

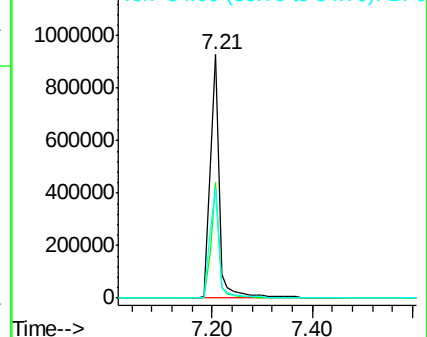
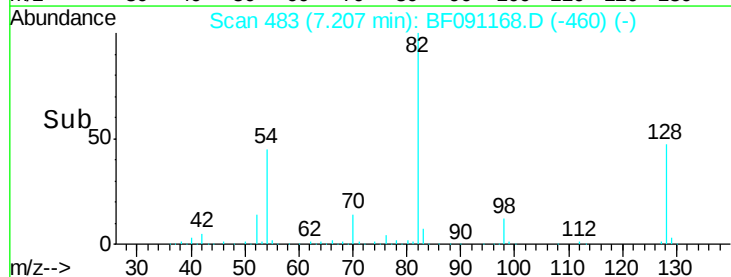


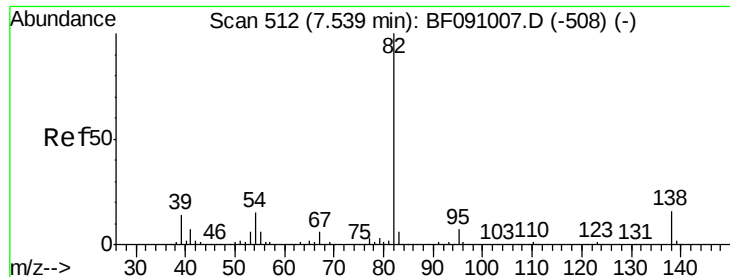
#23  
Nitrobenzene-d5  
Concen: 90.96 ng  
RT: 7.21 min Scan# 483  
Delta R.T. -0.03 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1181949 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 47.5  | 32.4  | 48.6    |
| 54       | 44.7  | 39.2  | 58.8    |



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: 46.38 ng

RT: 7.21 min Scan# 483

Delta R.T. -0.29 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

Instrument :

BNA\_F

ClientSampleId :

PB94688BL

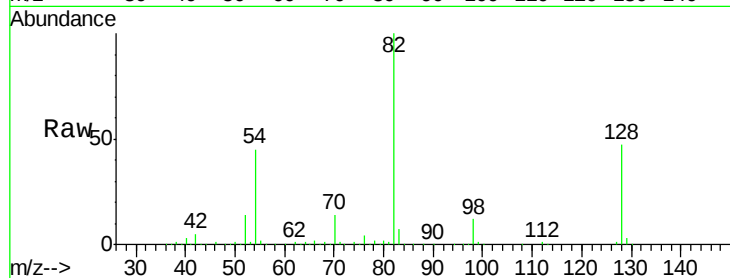
Tgt Ion: 82 Resp: 1161146

Ion Ratio Lower Upper

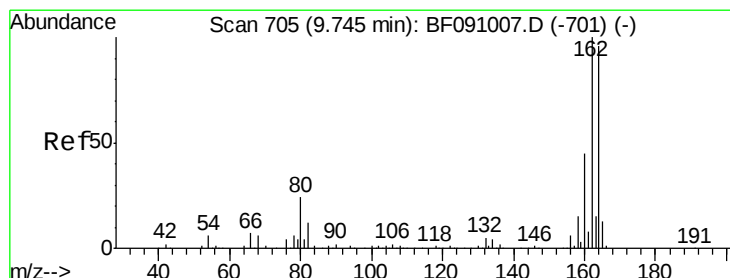
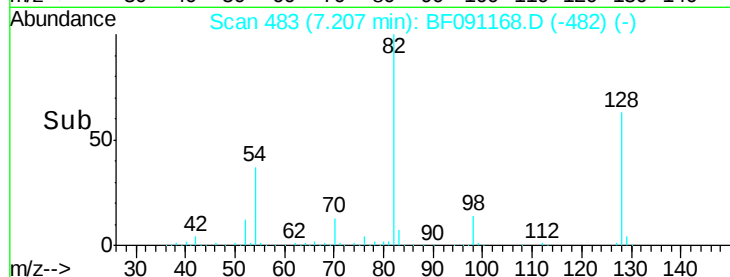
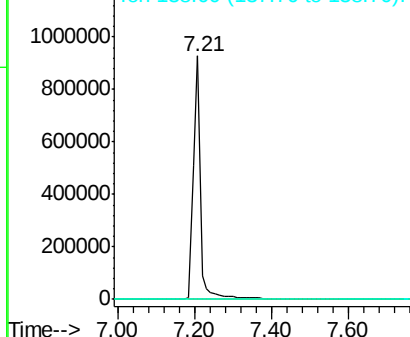
82 100

95 0.0 5.4 8.0#

138 0.0 13.0 19.4#



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: 9.66 min Scan# 698

Delta R.T. -0.03 min

Lab File: BF091168.D

Acq: 15 Nov 2016 9:45

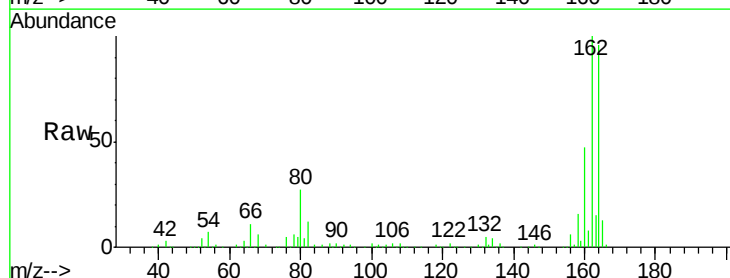
Tgt Ion: 164 Resp: 375359

Ion Ratio Lower Upper

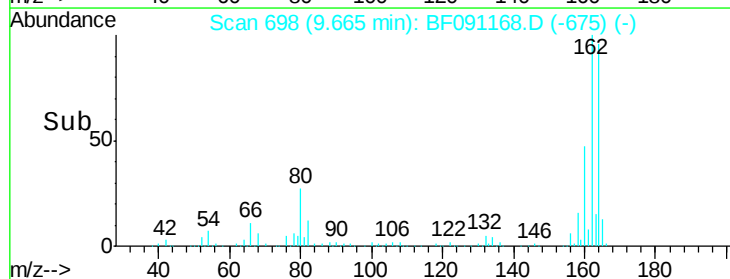
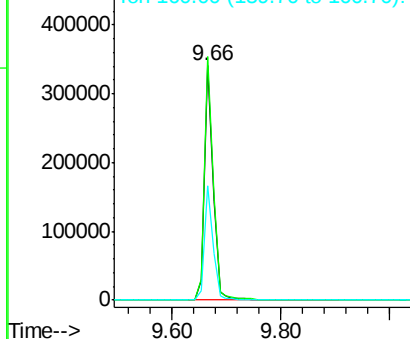
164 100

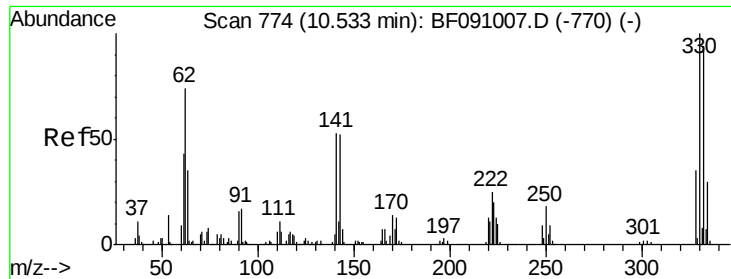
162 103.9 83.6 125.4

160 49.0 37.9 56.9



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

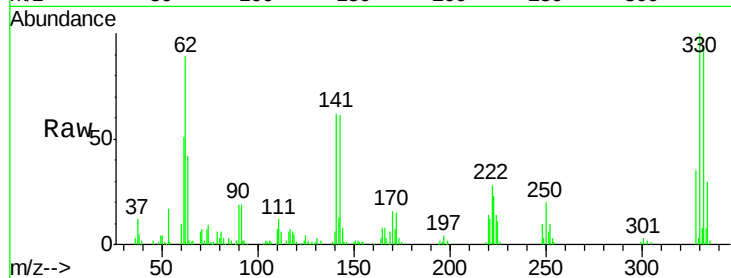




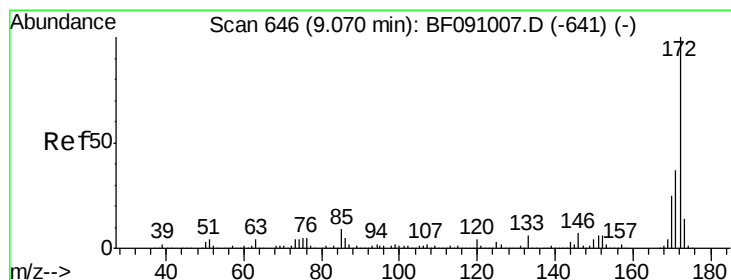
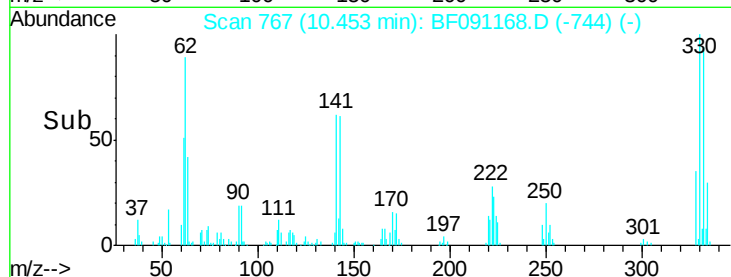
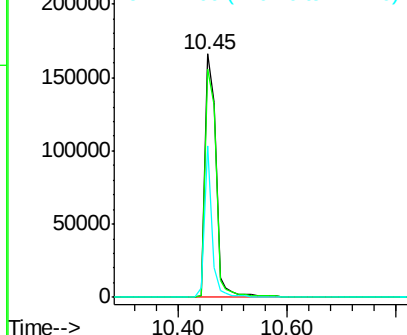
#41  
 2,4,6-Tribromophenol  
 Concen: 68.10 ng  
 RT: 10.45 min Scan# 767  
 Delta R.T. -0.03 min  
 Lab File: BF091168.D  
 Acq: 15 Nov 2016 9:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94688BL

Tgt Ion:330 Resp: 231103  
 Ion Ratio Lower Upper  
 330 100  
 332 95.4 75.9 113.9  
 141 42.5 36.1 54.1

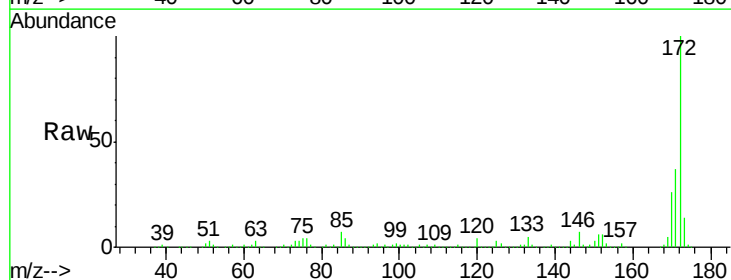


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

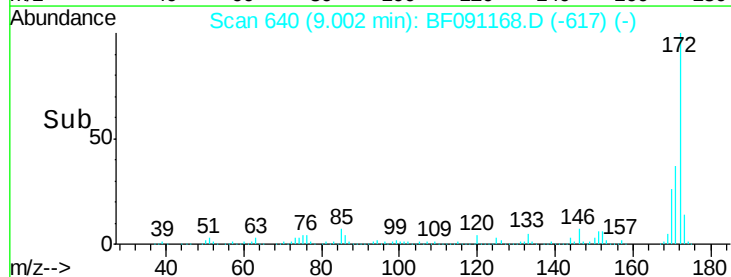
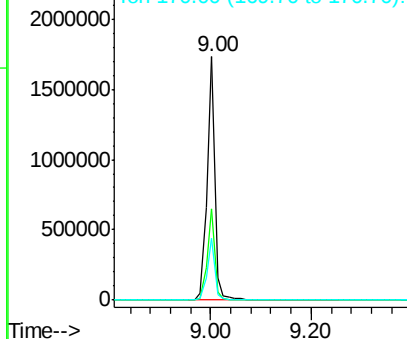


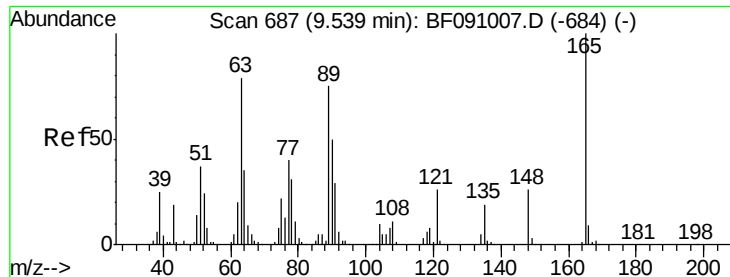
#44  
 2-Fluorobiphenyl  
 Concen: 85.56 ng  
 RT: 9.00 min Scan# 640  
 Delta R.T. -0.03 min  
 Lab File: BF091168.D  
 Acq: 15 Nov 2016 9:45

Tgt Ion:172 Resp: 1865365  
 Ion Ratio Lower Upper  
 172 100  
 171 37.3 29.8 44.6  
 170 25.6 20.3 30.5



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

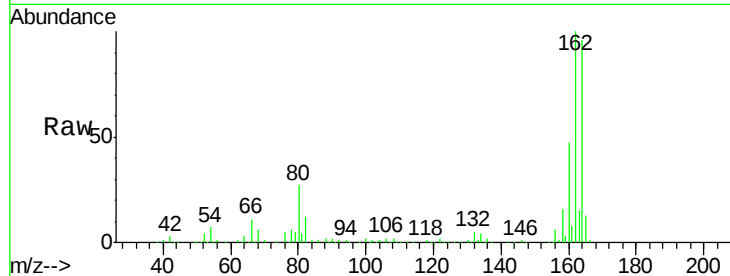




#50  
 2,6-Dinitrotoluene  
 Concen: 9.30 ng  
 RT: 9.66 min Scan# 698  
 Delta R.T. 0.16 min  
 Lab File: BF091168.D  
 Acq: 15 Nov 2016 9:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB94688BL

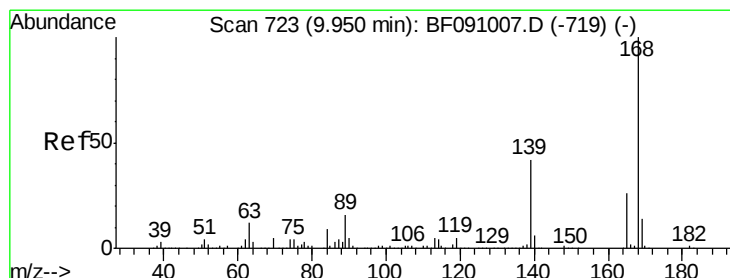
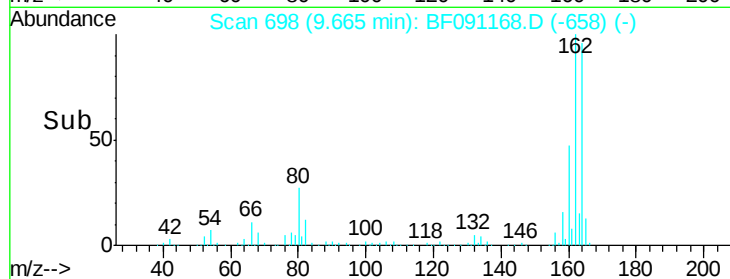
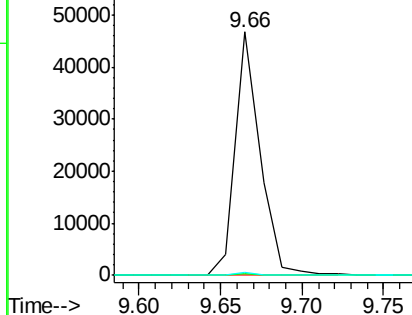
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 65.6  | 98.4# |
| 89      | 1.0   | 59.8  | 89.6# |



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: 7.31 ng  
 RT: 9.66 min Scan# 698  
 Delta R.T. -0.24 min  
 Lab File: BF091168.D  
 Acq: 15 Nov 2016 9:45

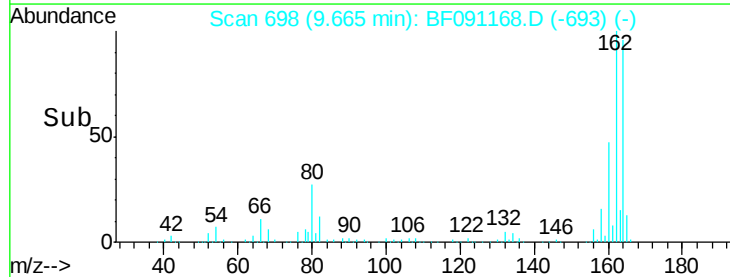
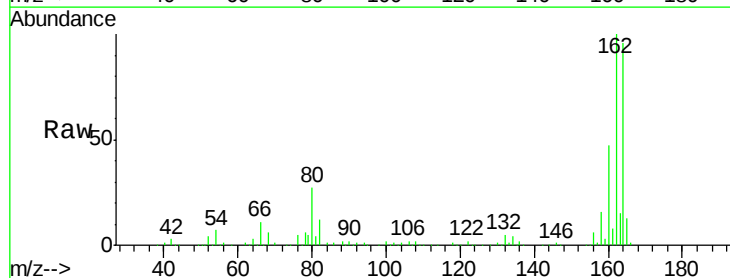
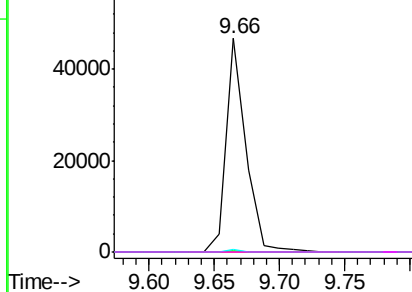
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 38.7  | 58.1# |
| 89      | 1.0   | 50.6  | 76.0# |
| 182     | 0.0   | 1.8   | 2.8#  |

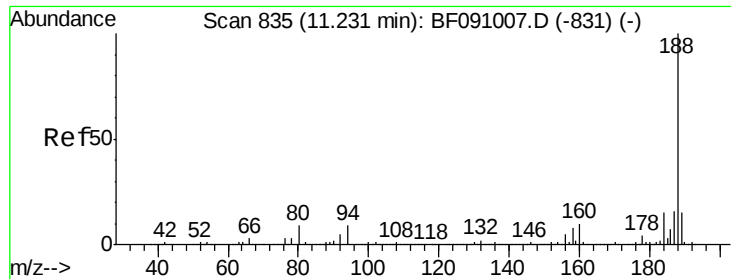
Abundance Ion 165.00 (164.70 to 165.70): E

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

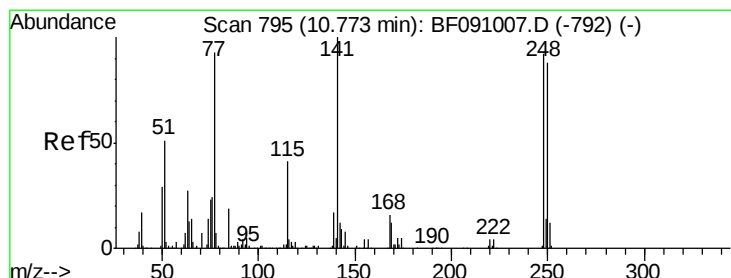
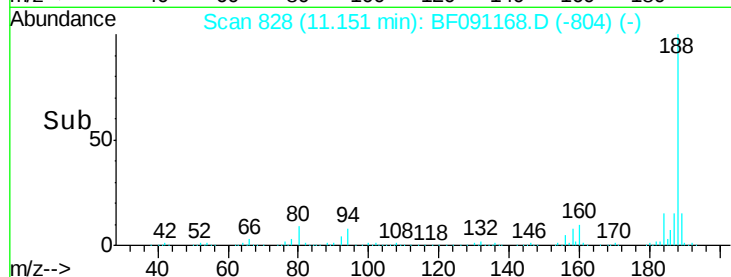
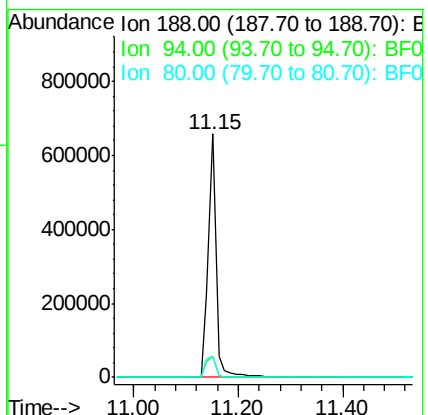
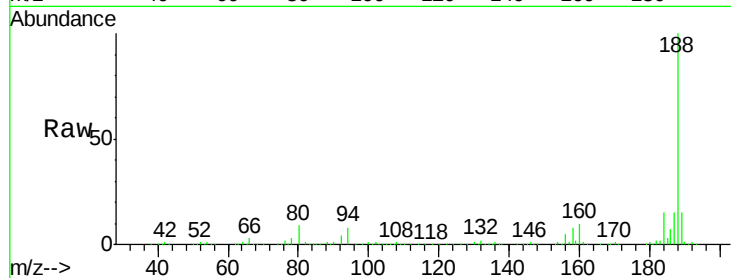




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.15 min Scan# 828  
Delta R.T. -0.02 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

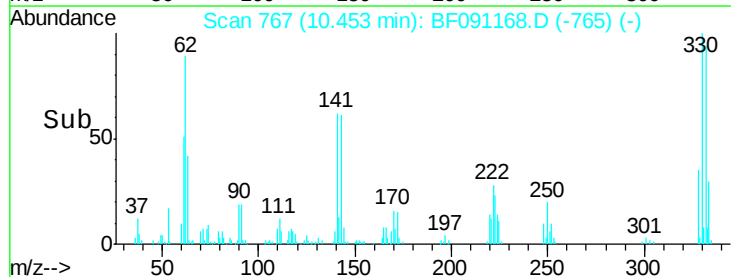
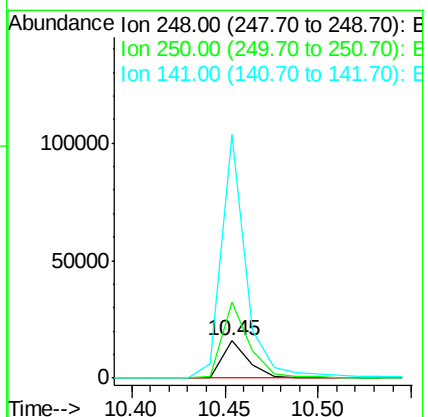
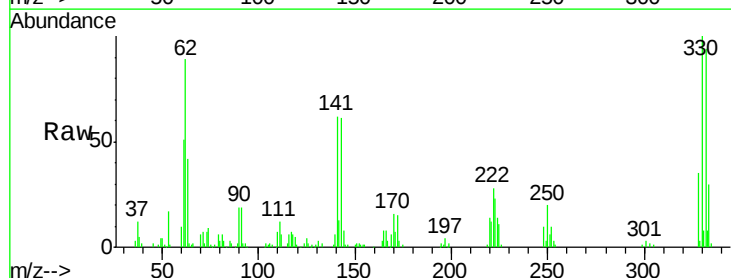
Instrument :  
BNA\_F  
ClientSampleId :  
PB94688BL

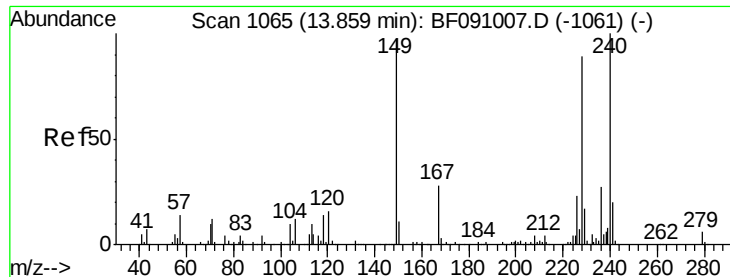
Tgt Ion:188 Resp: 690785  
Ion Ratio Lower Upper  
188 100  
94 8.4 7.0 10.4  
80 8.8 7.5 11.3



#66  
4-Bromophenyl-phenylether  
Concen: 2.22 ng  
RT: 10.45 min Scan# 767  
Delta R.T. -0.27 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

Tgt Ion:248 Resp: 15928  
Ion Ratio Lower Upper  
248 100  
250 204.2 76.3 114.5#  
141 652.1 86.8 130.2#

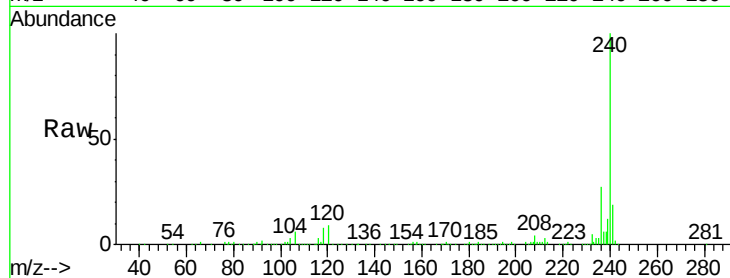




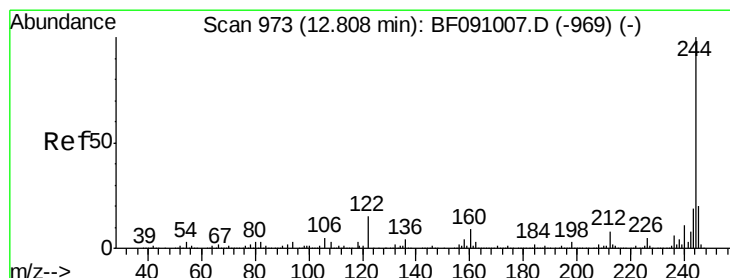
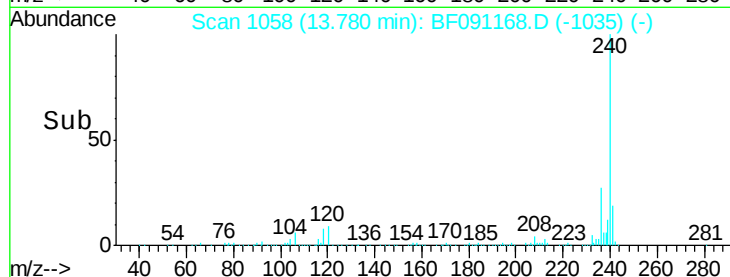
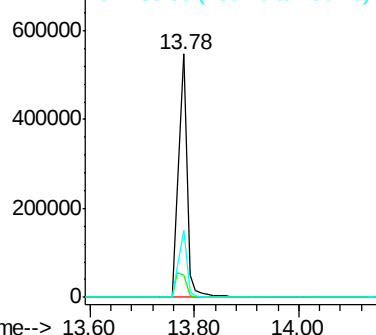
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.78 min Scan# 1058  
Delta R.T. -0.03 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

Instrument :  
BNA\_F  
ClientSampleId :  
PB94688BL

Tgt Ion:240 Resp: 619161  
Ion Ratio Lower Upper  
240 100  
120 8.9 12.9 19.3#  
236 27.3 21.9 32.9

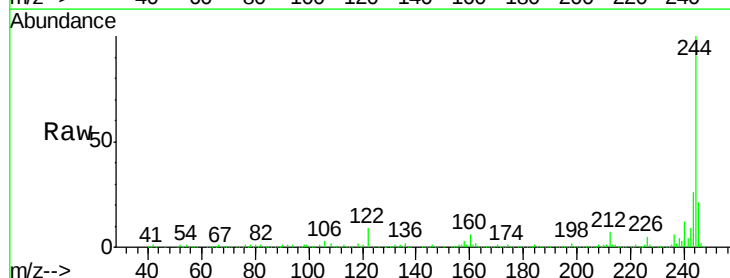


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

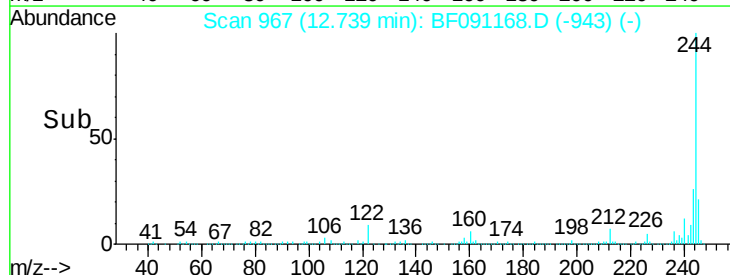
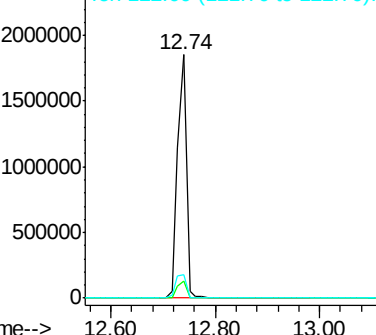


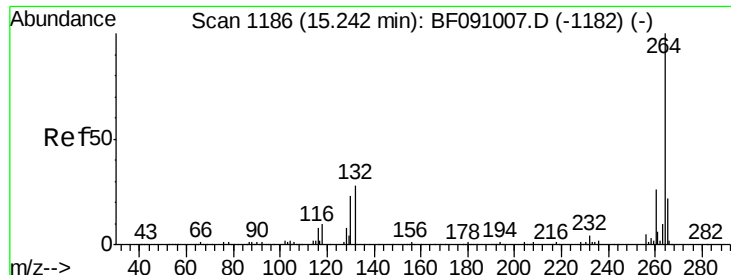
#78  
Terphenyl-d14  
Concen: 87.86 ng  
RT: 12.74 min Scan# 967  
Delta R.T. -0.02 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

Tgt Ion:244 Resp: 2179840  
Ion Ratio Lower Upper  
244 100  
212 7.2 6.4 9.6  
122 9.4 12.3 18.5#



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: 15.14 min Scan# 1177  
Delta R.T. -0.05 min  
Lab File: BF091168.D  
Acq: 15 Nov 2016 9:45

Instrument :  
BNA\_F  
ClientSampleId :  
PB94688BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 509303 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 25.7  | 20.6  | 30.8   |
| 265      | 22.0  | 17.8  | 26.8   |

