

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082718\  
 Data File : BF108516.D  
 Acq On : 27 Aug 2018 17:48  
 Operator : JU/SJ  
 Sample : J4538-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 27 18:18:24 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 11:01:45 2018  
 Response via : Initial Calibration

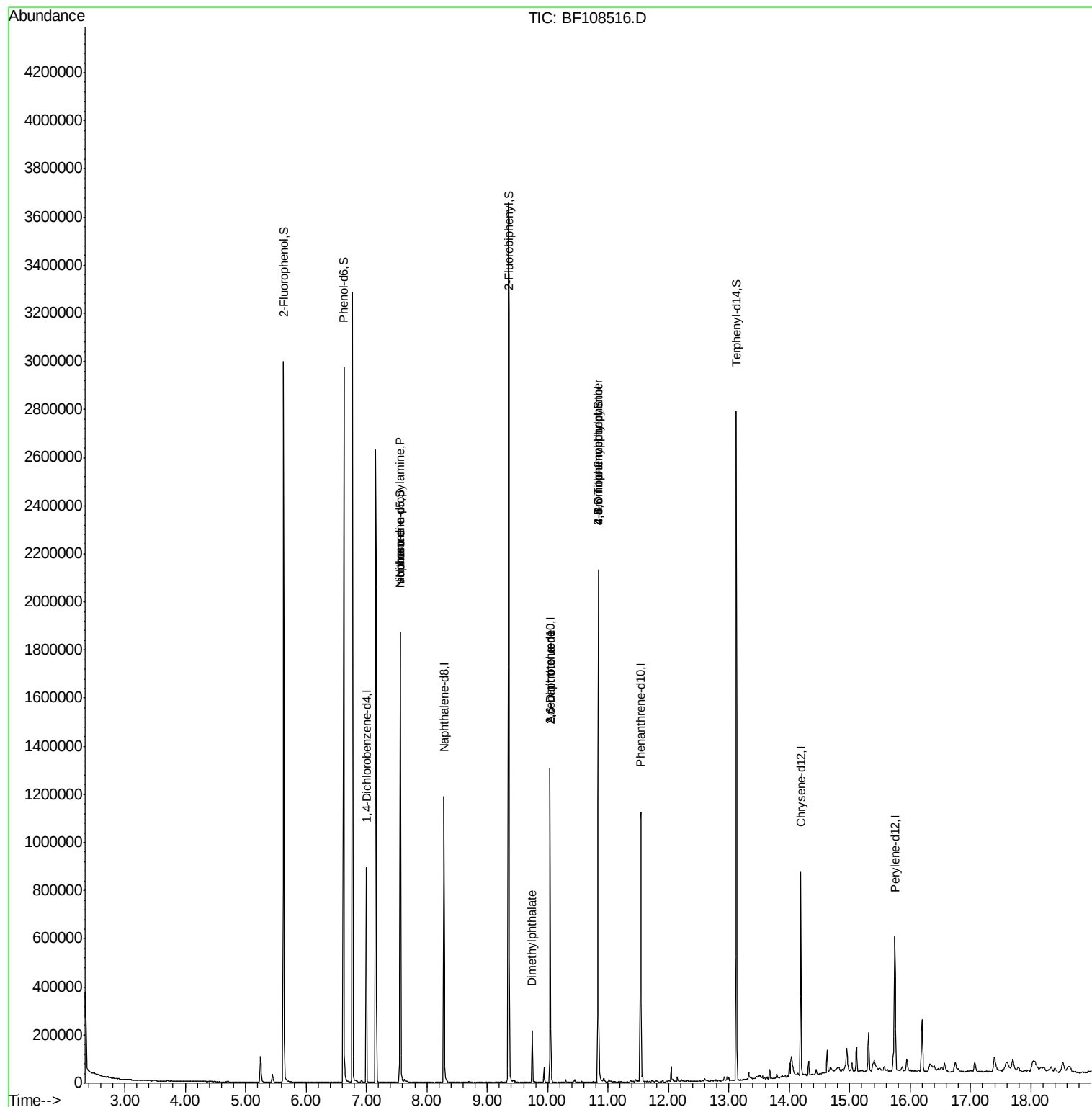
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.00  | 152  | 129377   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.28  | 136  | 500813   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.04 | 164  | 248385   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.54 | 188  | 434366   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.19 | 240  | 303394   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.75 | 264  | 278683   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 726201   | 101.62 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.62  | 99   | 967323   | 101.86 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.56  | 82   | 647811   | 72.18  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.84 | 330  | 254937   | 102.90 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.35  | 172  | 1182071  | 76.40  | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.12 | 244  | 895350   | 75.03  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.56  | 70   | 88970    | 13.855 | ng    | # 85     |
| 25) Isophorone                 | 7.56  | 82   | 647802   | 37.869 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.74  | 163  | 90184    | 5.212  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 10.04 | 165  | 30757    | 8.497  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 10.04 | 165  | 30757    | 6.601  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.84 | 198  | 545      | 5.655  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.84 | 248  | 16435    | 3.482  | ng    | # 1      |

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

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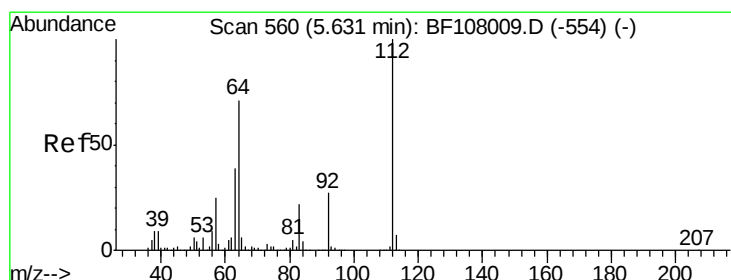
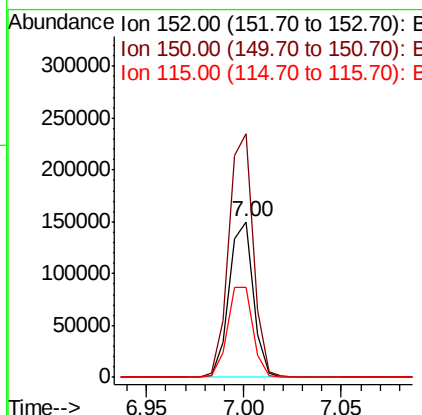
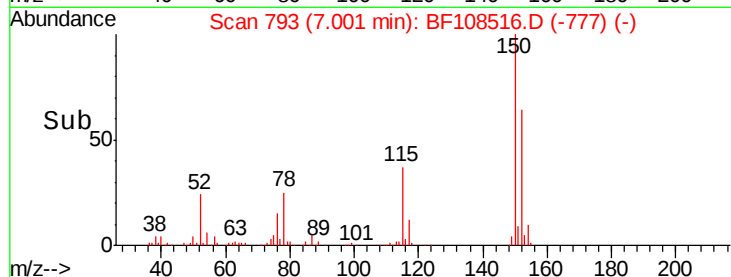
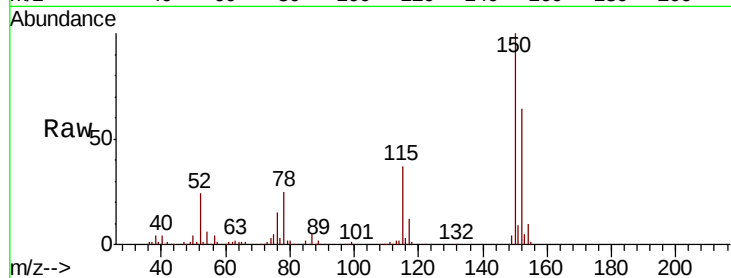


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Instrument :  
BNA\_F  
ClientSampleId :

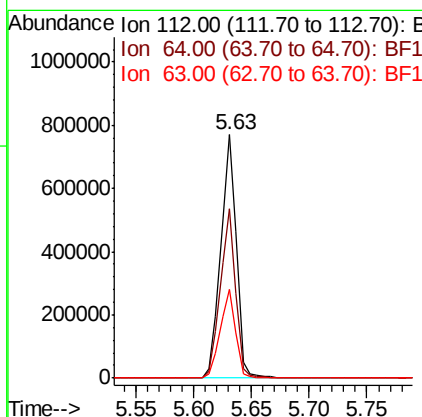
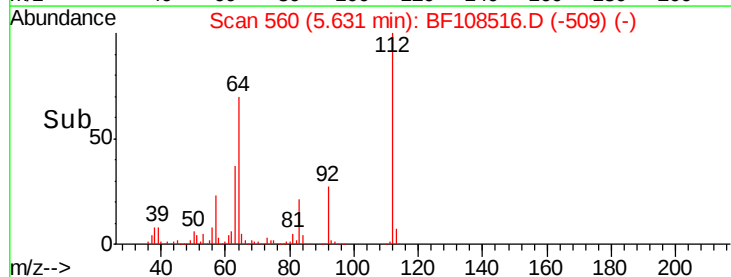
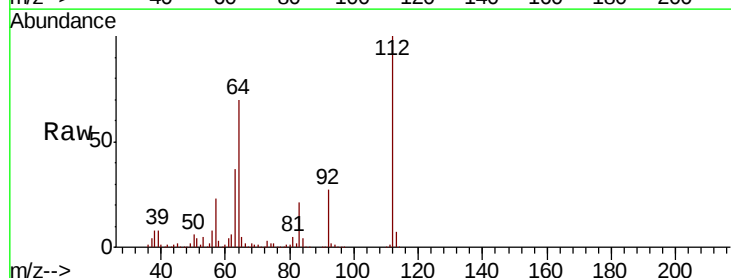
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.7 | 124.6 | 186.8 |
| 115     | 57.7  | 50.1  | 75.1  |



#5

2-Fluorophenol  
Concen: 101.622 ng  
RT: 5.63 min Scan# 560  
Delta R.T. -0.00 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.6  | 47.9  | 71.9  |
| 63      | 36.6  | 23.7  | 35.5# |





#7

Phenol-d6

Concen: 101.864 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

Instrument :

BNA\_F

ClientSampleId :

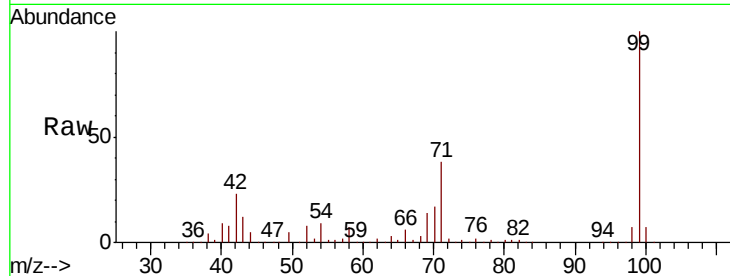
Tot Ion: 99 Resp: 967323

Ion Ratio Lower Upper

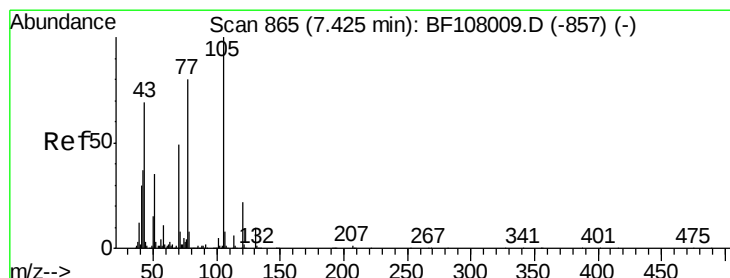
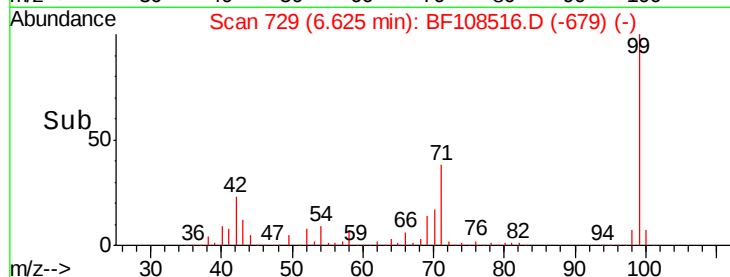
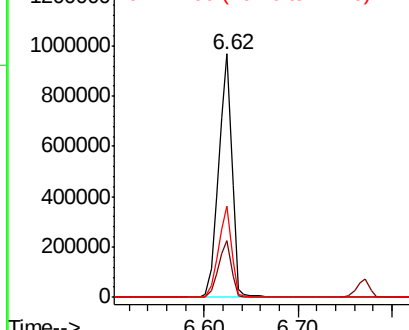
99 100

42 23.2 14.5 21.7#

71 37.6 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 13.855 ng

RT: 7.56 min Scan# 888

Delta R.T. 0.15 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

Tgt Ion: 70 Resp: 88970

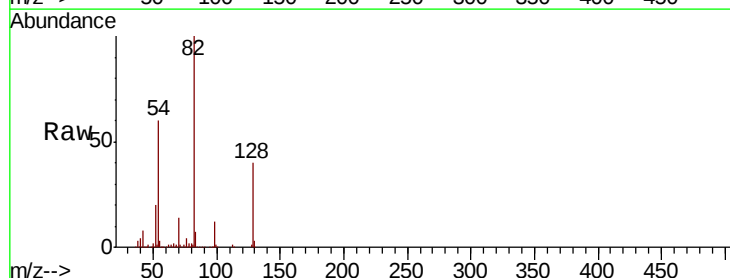
Ion Ratio Lower Upper

70 100

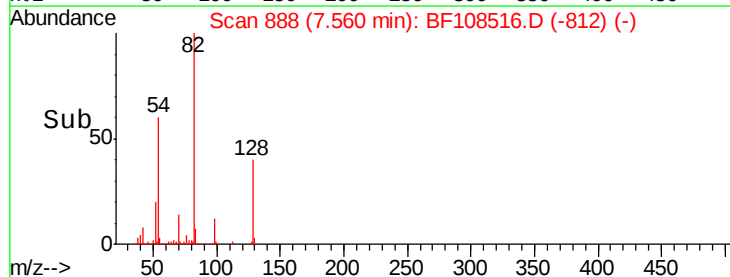
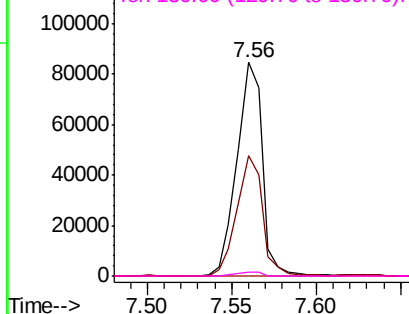
42 56.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.28 min Scan# 1011

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 500813

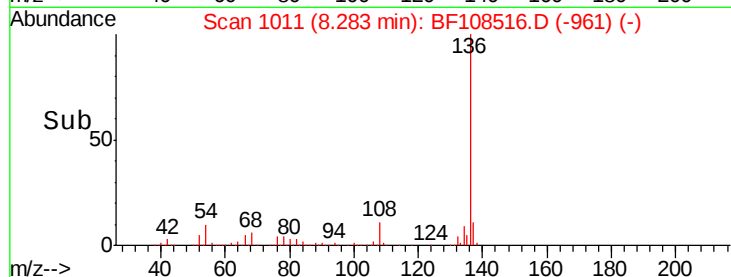
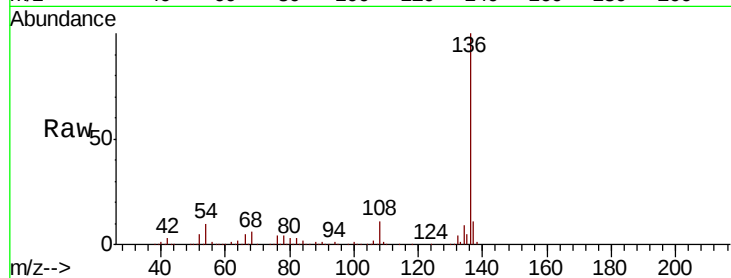
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 9.7 6.6 9.8

68 5.7 5.0 7.4

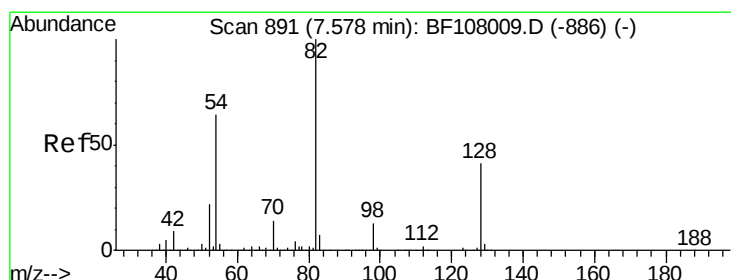
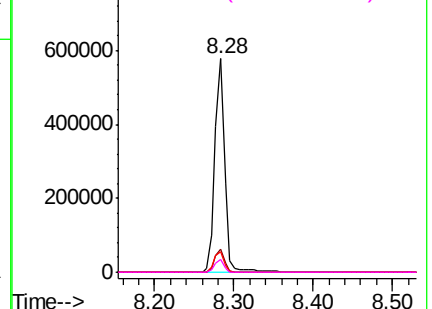


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 72.180 ng

RT: 7.56 min Scan# 888

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

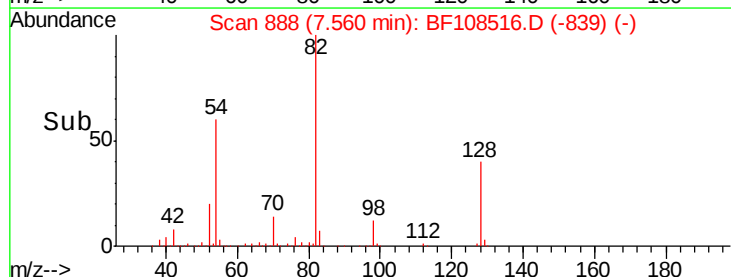
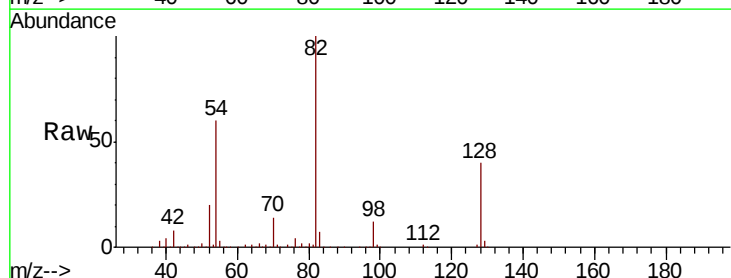
Tgt Ion: 82 Resp: 647811

Ion Ratio Lower Upper

82 100

128 40.4 36.1 54.1

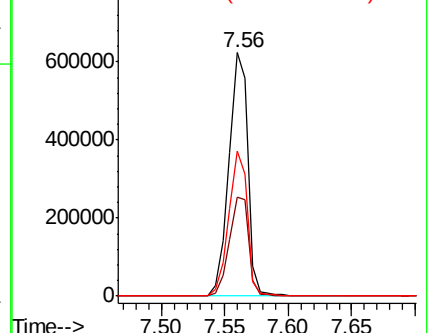
54 59.6 41.4 62.2

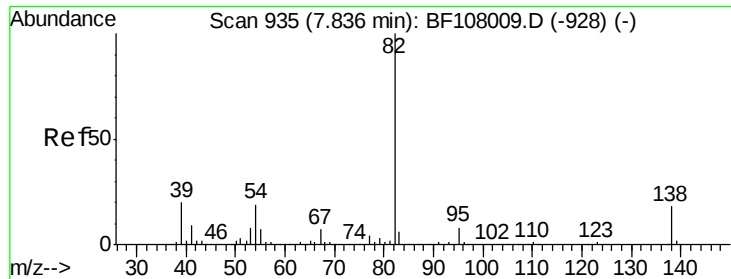


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

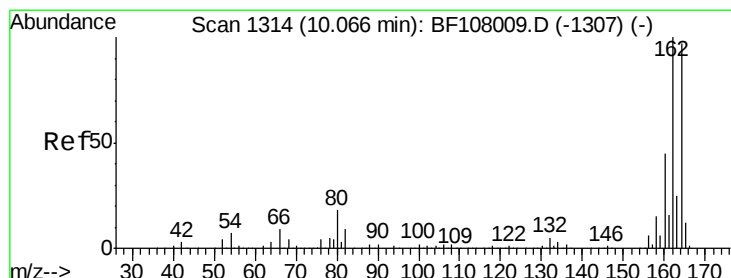
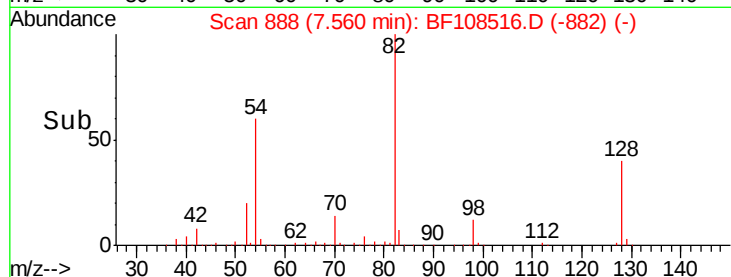
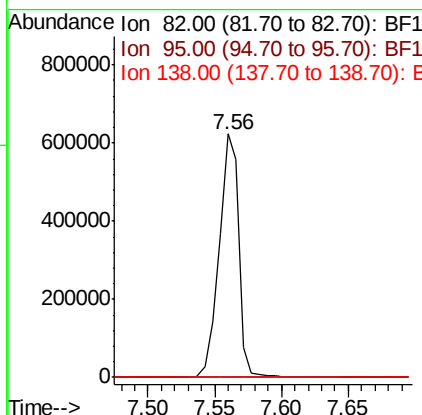
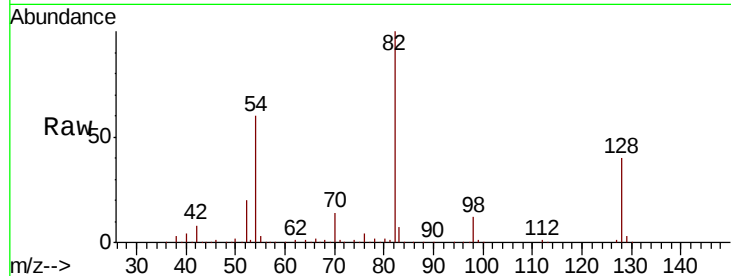




#25  
Isophorone  
Concen: 37.869 ng  
RT: 7.56 min Scan# 888  
Delta R.T. -0.26 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

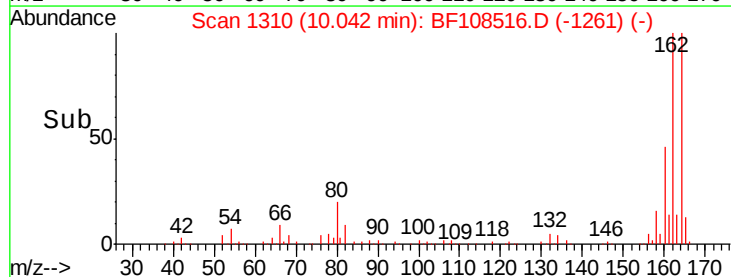
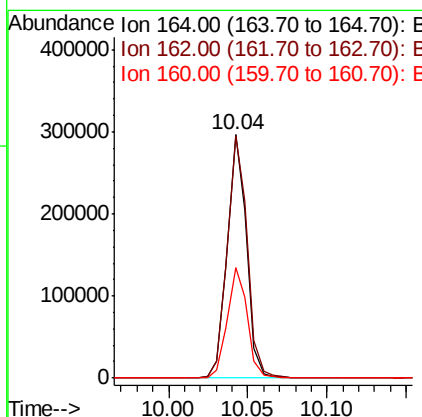
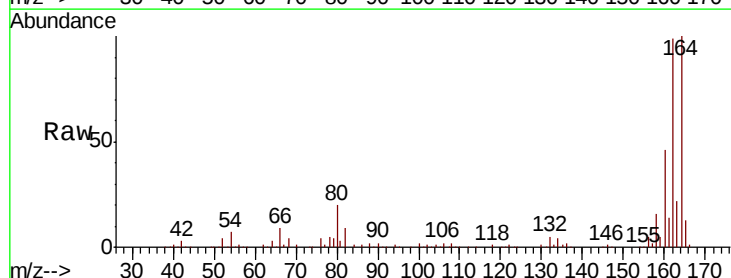
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 647802  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.04 min Scan# 1310  
Delta R.T. -0.01 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Tgt Ion:164 Resp: 248385  
Ion Ratio Lower Upper  
164 100  
162 99.3 86.1 129.1  
160 45.6 38.3 57.5

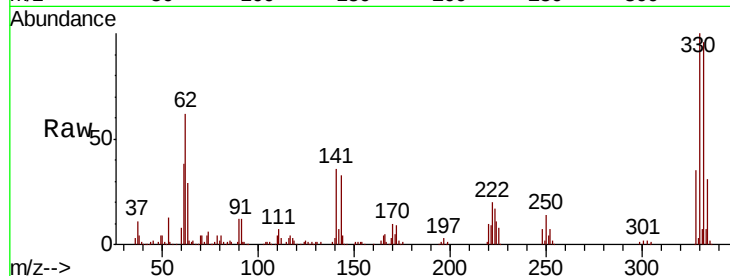




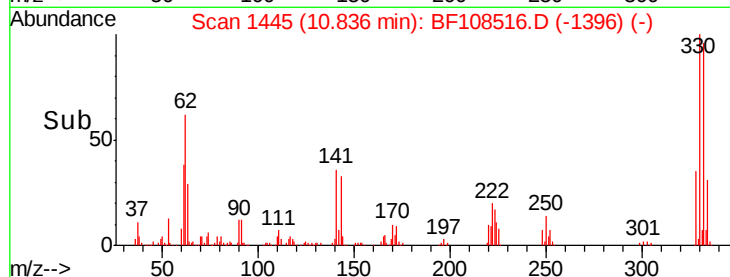
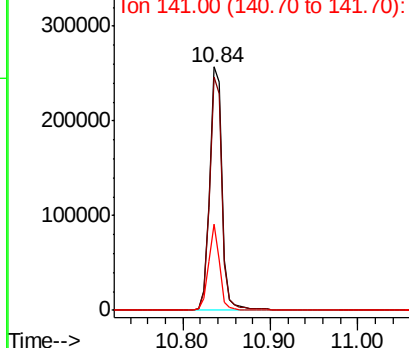
#41  
 2,4,6-Tribromophenol  
 Concen: 102.898 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. -0.01 min  
 Lab File: BF108516.D  
 Acq: 27 Aug 2018 17:48

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 77.0  | 115.6 |
| 141     | 31.9  | 29.9  | 44.9  |

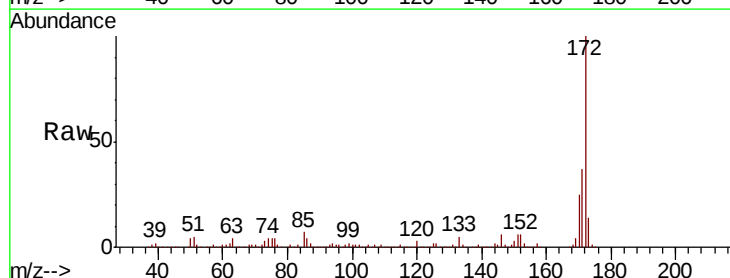


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

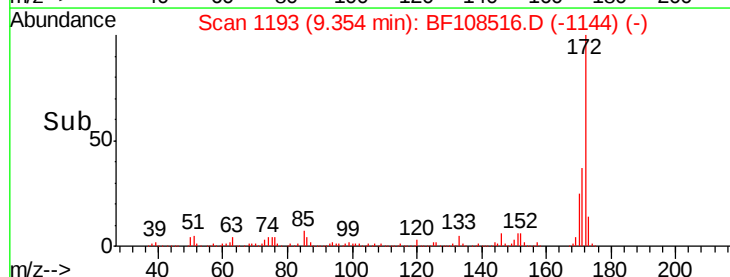
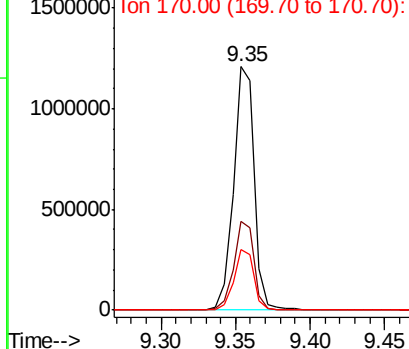


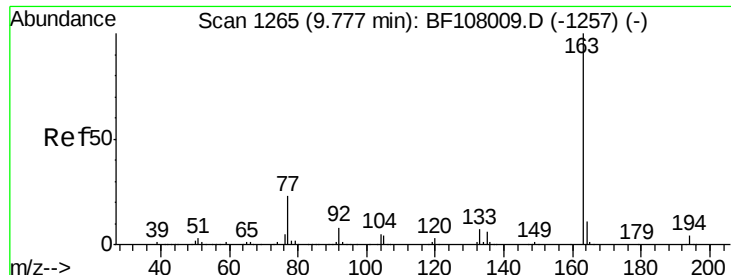
#44  
 2-Fluorobiphenyl  
 Concen: 76.405 ng  
 RT: 9.35 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF108516.D  
 Acq: 27 Aug 2018 17:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 29.7  | 44.5  |
| 170     | 24.8  | 19.6  | 29.4  |



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

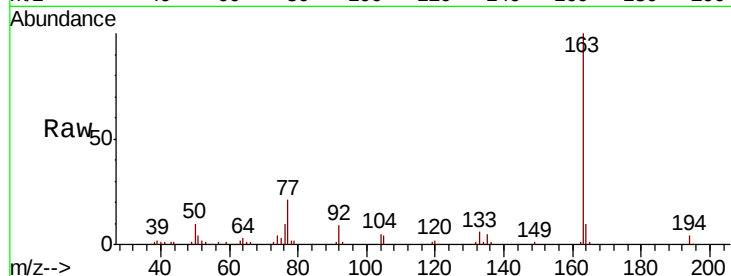




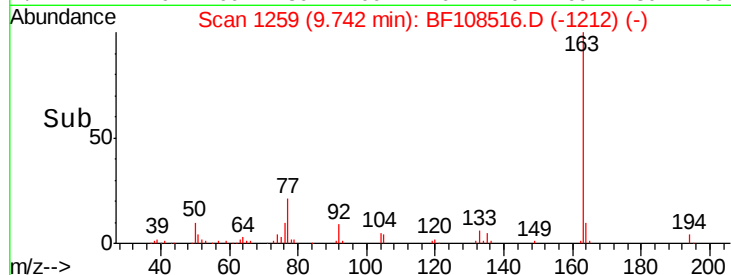
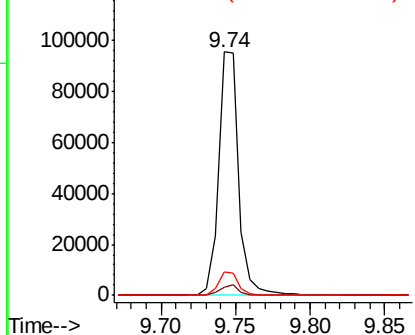
#49  
Dimethylphthalate  
Concen: 5.212 ng  
RT: 9.74 min Scan# 1259  
Delta R.T. -0.02 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 90184  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 9.8 8.2 12.2

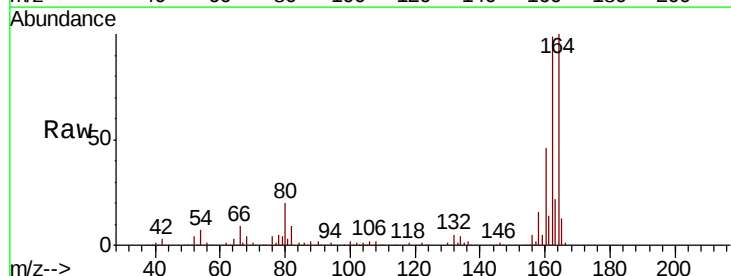


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

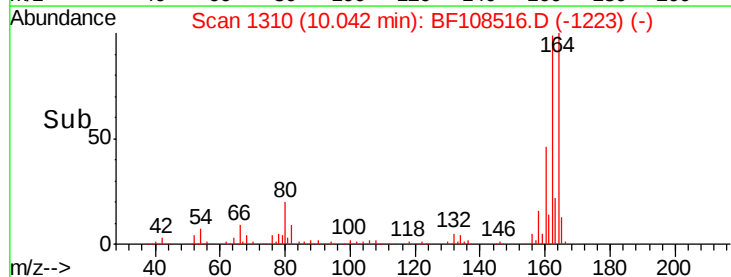
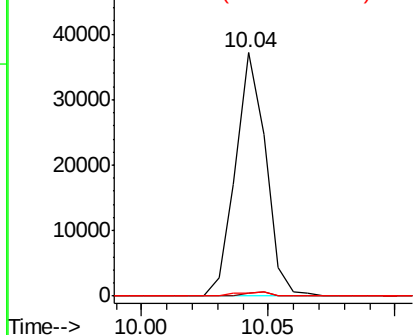


#50  
2,6-Dinitrotoluene  
Concen: 8.497 ng  
RT: 10.04 min Scan# 1310  
Delta R.T. 0.21 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Tgt Ion:165 Resp: 30757  
Ion Ratio Lower Upper  
165 100  
63 1.3 44.7 67.1#  
89 1.2 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1





#56

2,4-Dinitrotoluene

Concen: 6.601 ng

RT: 10.04 min Scan# 1310

Delta R.T. -0.19 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

Instrument :

BNA\_F

ClientSampled :

Tot Ion:165 Resp: 30757

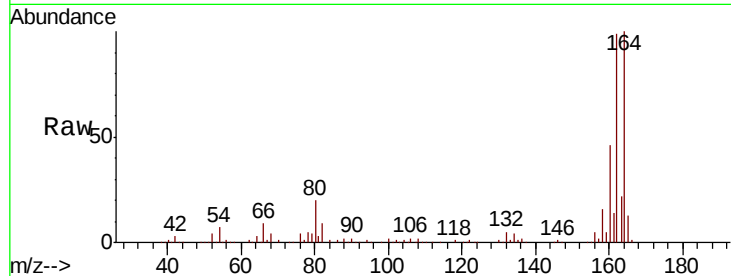
Ion Ratio Lower Upper

165 100

63 1.3 36.4 54.6#

89 1.2 57.8 86.6#

182 0.0 1.6 2.4#

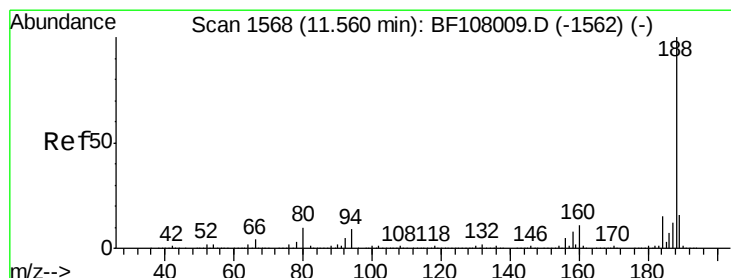
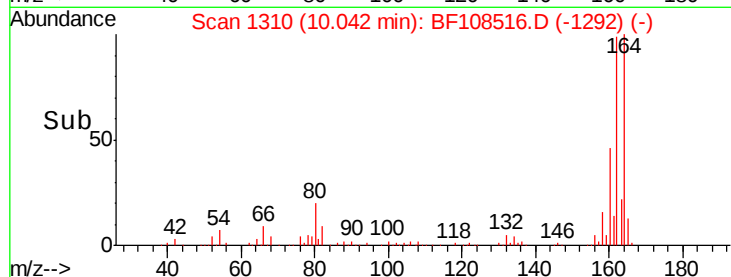
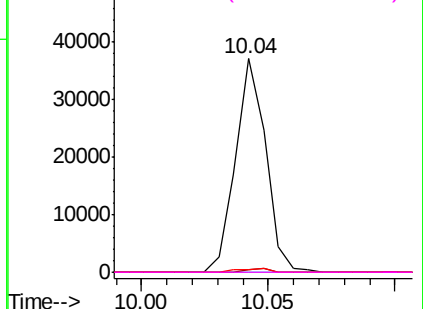


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.54 min Scan# 1565

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

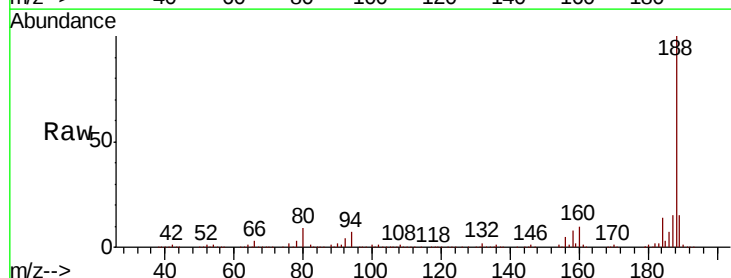
Tgt Ion:188 Resp: 434366

Ion Ratio Lower Upper

188 100

94 7.2 8.5 12.7#

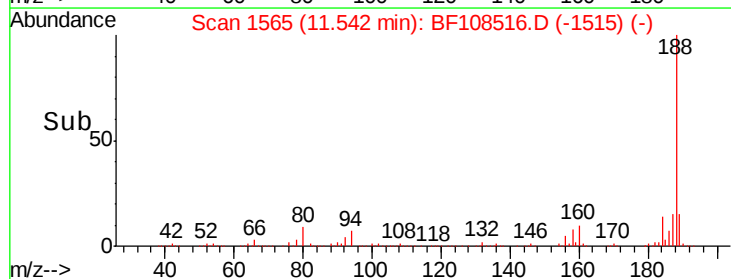
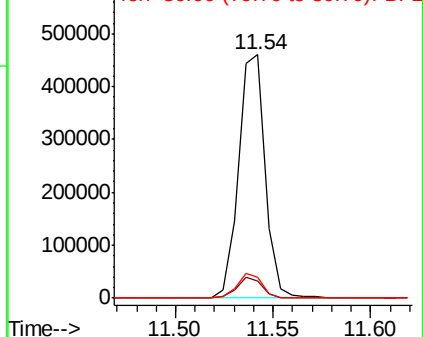
80 8.6 9.2 13.8#

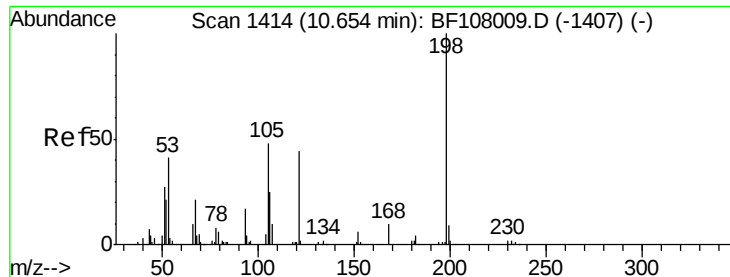


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

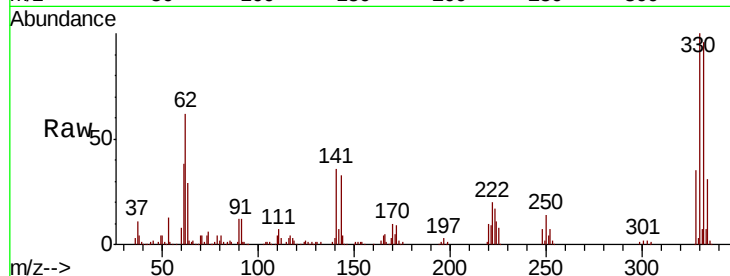




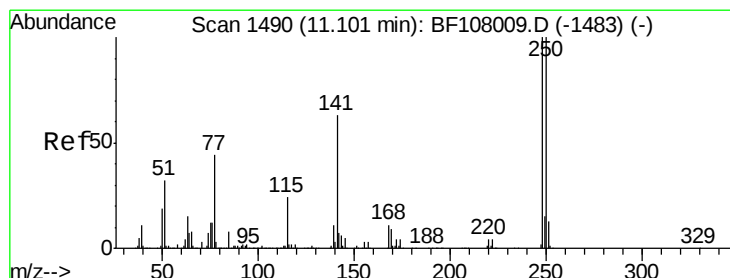
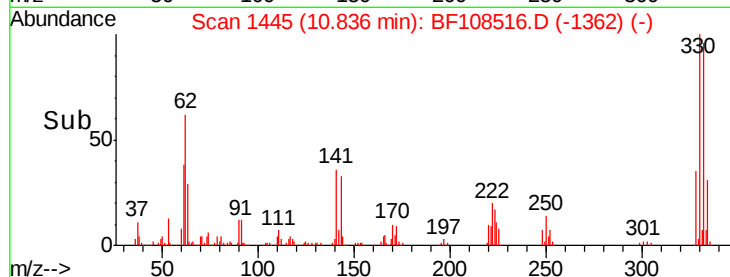
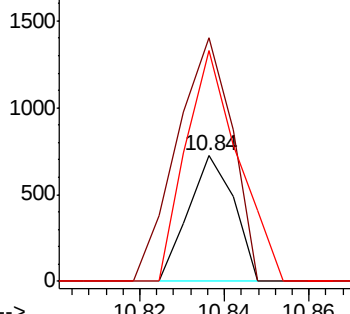
#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.655 ng  
RT: 10.84 min Scan# 1445  
Delta R.T. 0.19 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:198 Resp: 545  
Ion Ratio Lower Upper  
198 100  
51 193.6 37.7 77.7#  
105 183.6 36.3 76.3#

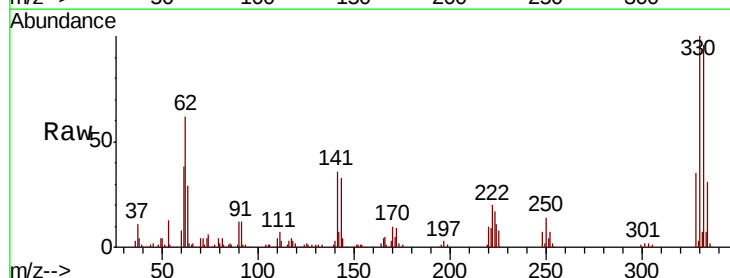


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

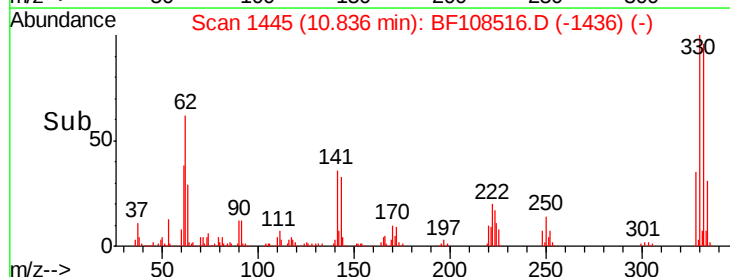
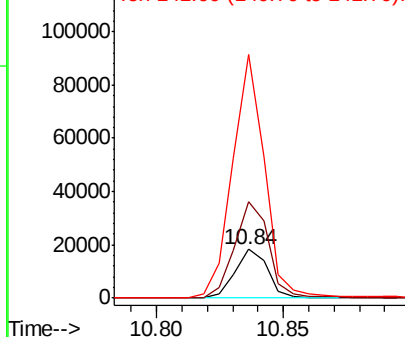


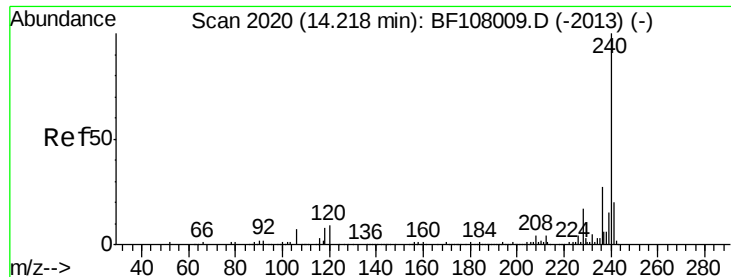
#66  
4-Bromophenyl-phenylether  
Concen: 3.482 ng  
RT: 10.84 min Scan# 1445  
Delta R.T. -0.25 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Tgt Ion:248 Resp: 16435  
Ion Ratio Lower Upper  
248 100  
250 198.0 76.9 115.3#  
141 502.0 74.4 111.6#



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: 20.000 ng

RT: 14.19 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

Instrument :

BNA\_F

ClientSampleId :

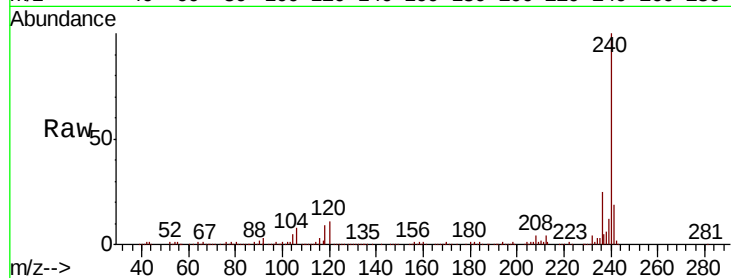
Tot Ion:240 Resp: 303394

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

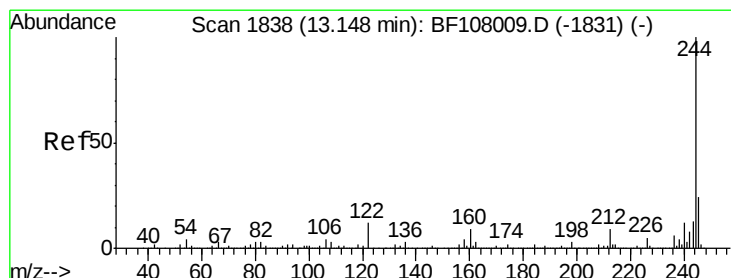
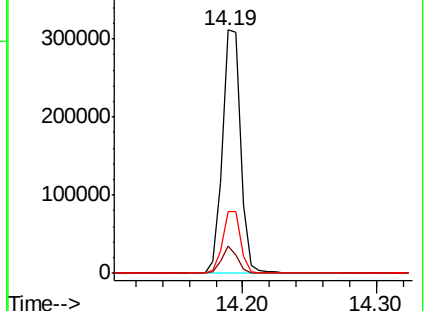
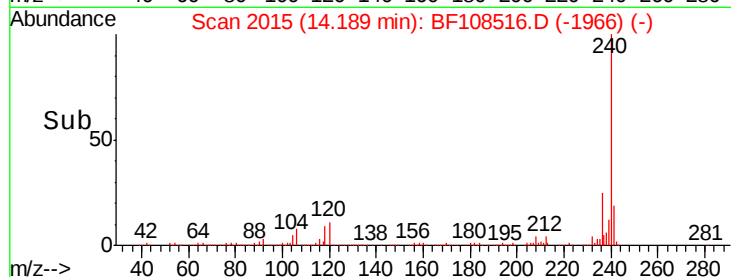
236 25.4 20.7 31.1



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: 75.034 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.01 min

Lab File: BF108516.D

Acq: 27 Aug 2018 17:48

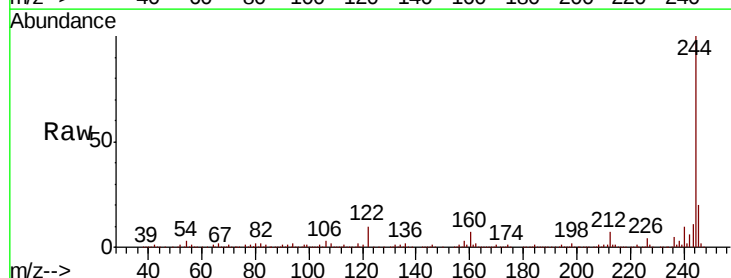
Tgt Ion:244 Resp: 895350

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

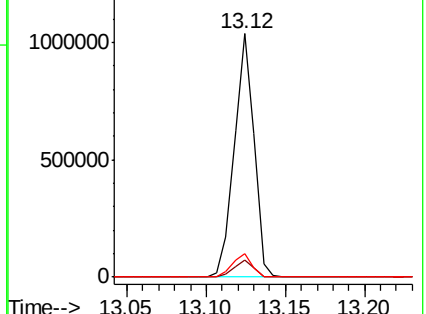
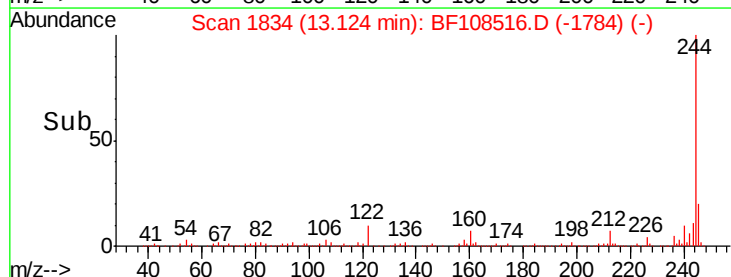
122 9.7 11.0 16.4#

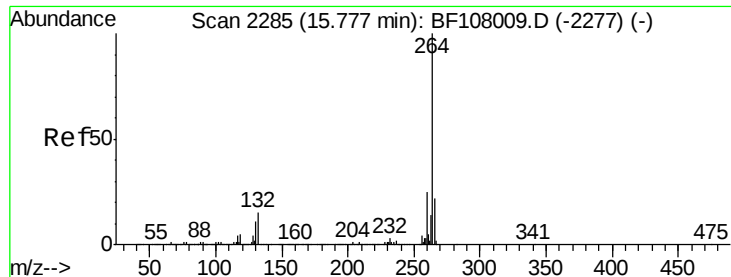


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.75 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF108516.D  
Acq: 27 Aug 2018 17:48

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 21.0  | 17.5  | 26.3  |

