

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081618\  
 Data File : BF108223.D  
 Acq On : 17 Aug 2018 4:10  
 Operator : JU/SJ  
 Sample : J4504-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 081418-DBRI-F-D-B

Quant Time: Aug 17 05:40:34 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 08 12:24:24 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.01  | 152  | 160281   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.30  | 136  | 573252   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.06 | 164  | 269212   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.55 | 188  | 477950   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.21 | 240  | 452399   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.77 | 264  | 341635   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 425239   | 48.03  | ng    | 0.01     |
| 7) Phenol-d6                | 6.62  | 99   | 356993   | 30.34  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.58  | 82   | 1070353  | 104.19 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.85 | 330  | 264258   | 98.41  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.37  | 172  | 1898009  | 113.19 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.15 | 244  | 1764077  | 99.14  | ng    | 0.00     |

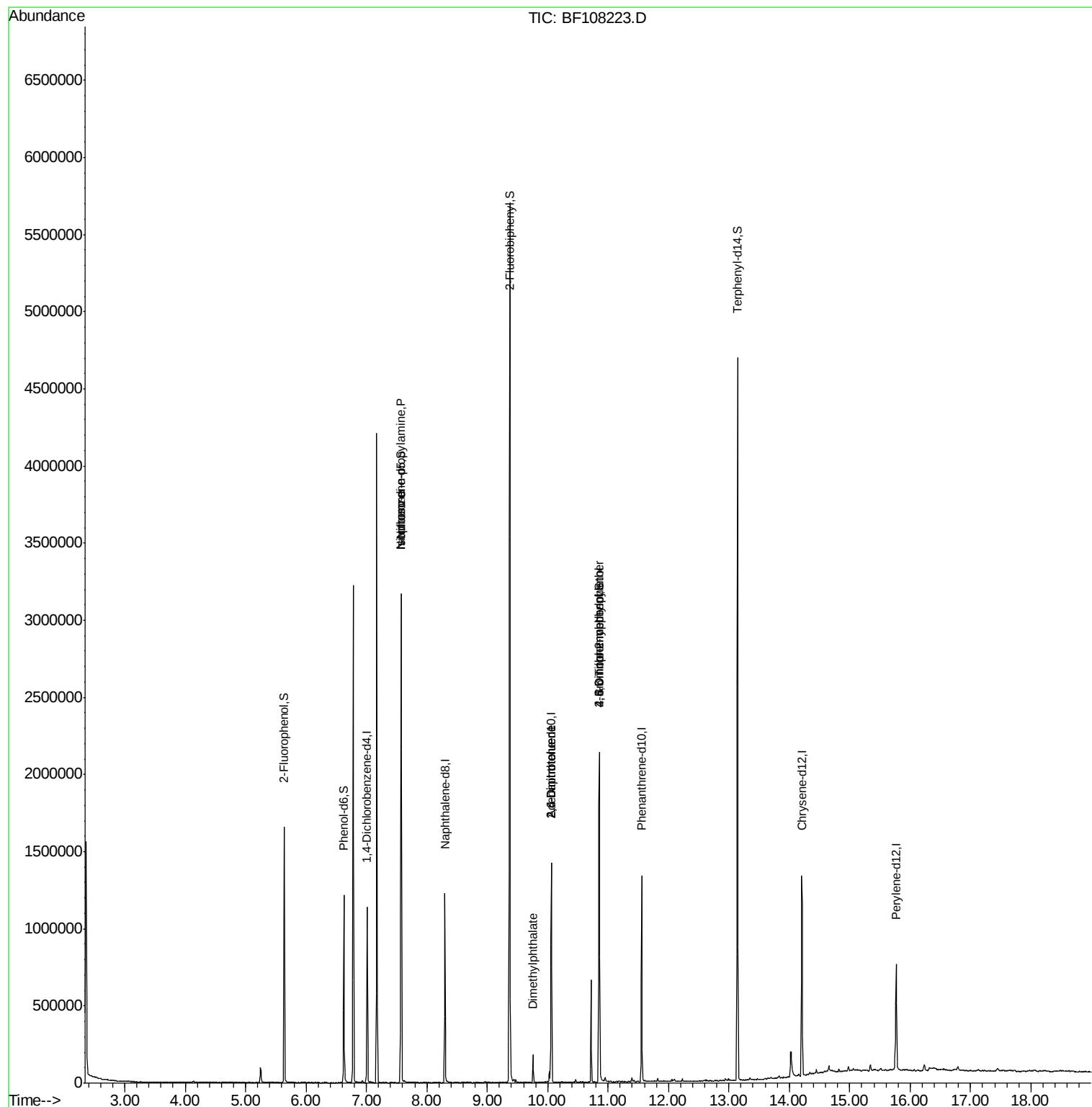
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 144256   | 18.133 | ng    | # 84   |
| 25) Isophorone                 | 7.58  | 82   | 1067126  | 54.498 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.76  | 163  | 67118    | 3.579  | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 10.06 | 165  | 33844    | 8.626  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 10.06 | 165  | 33844    | 6.701  | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.85 | 198  | 471      | 5.592  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.85 | 248  | 17429    | 3.356  | ng    | # 1    |

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

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081418-DBRI-F-D-B

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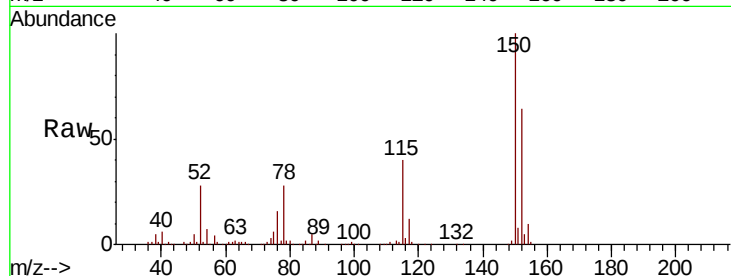


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 795  
Delta R.T. -0.00 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.4 | 124.6 | 186.8 |
| 115     | 62.0  | 50.1  | 75.1  |

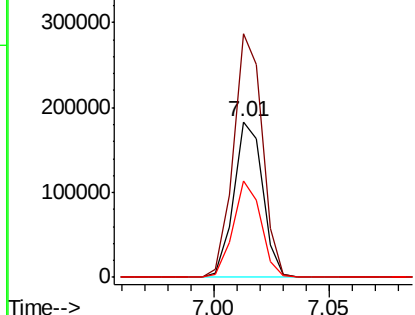
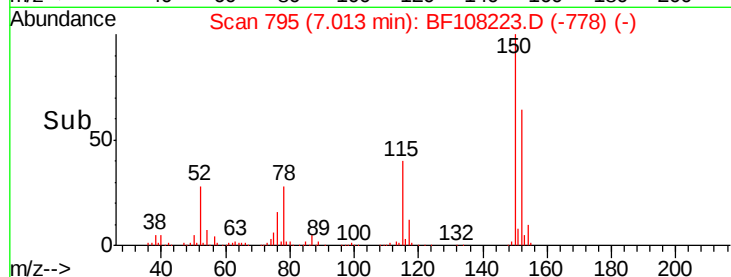


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

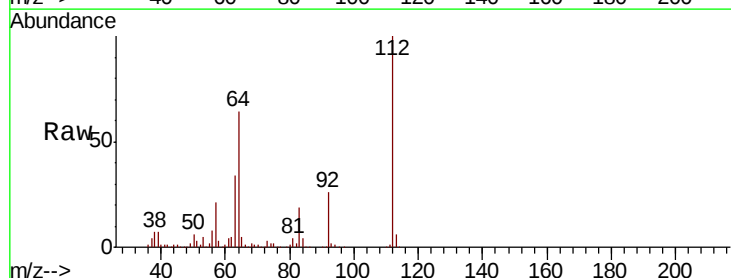
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 48.033 ng  
RT: 5.64 min Scan# 562  
Delta R.T. 0.01 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 64.1  | 47.9  | 71.9  |
| 63      | 34.1  | 23.7  | 35.5  |

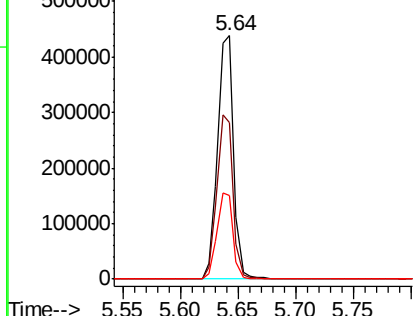
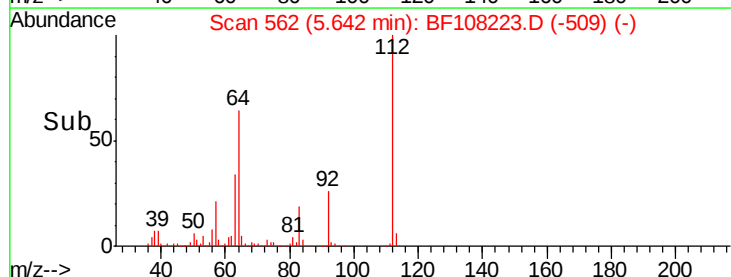


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 30.345 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

Instrument :

BNA\_F

ClientSampleId :

081418-DBRI-F-D-B

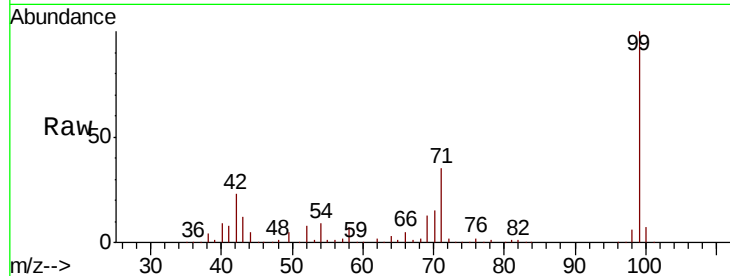
Tgt Ion: 99 Resp: 356993

Ion Ratio Lower Upper

99 100

42 23.1 14.5 21.7#

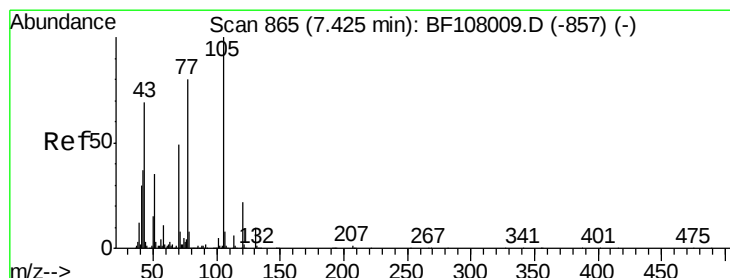
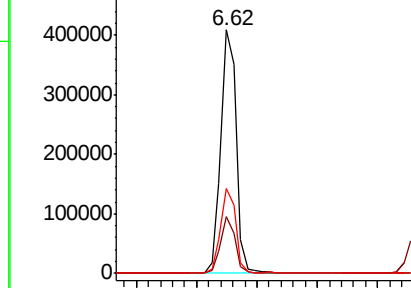
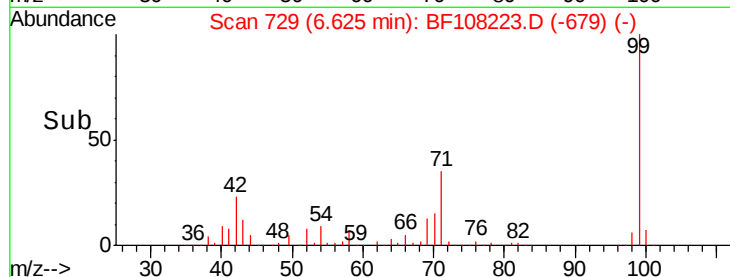
71 34.7 25.4 38.0



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: 18.133 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

Tgt Ion: 70 Resp: 144256

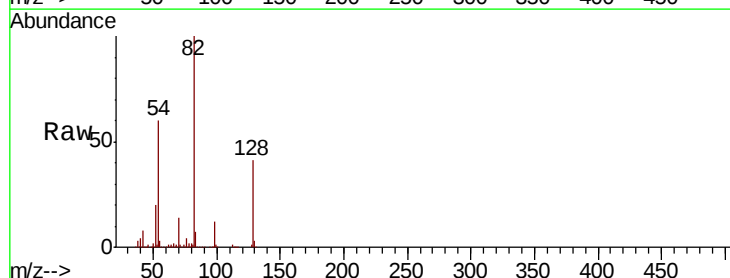
Ion Ratio Lower Upper

70 100

42 54.7 47.5 71.3

101 0.0 7.4 11.2#

130 1.8 16.6 25.0#

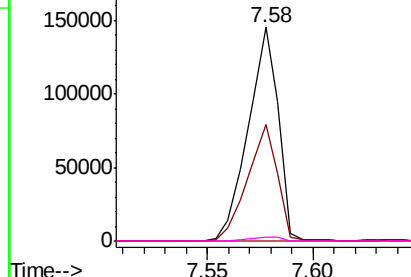
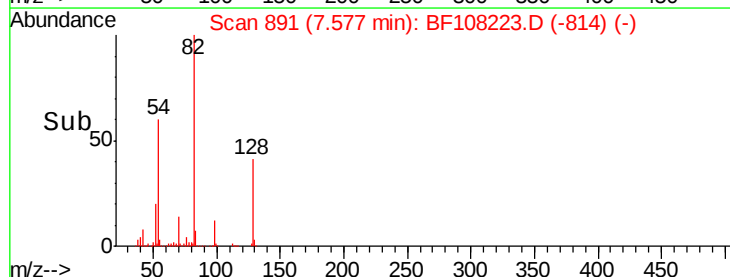


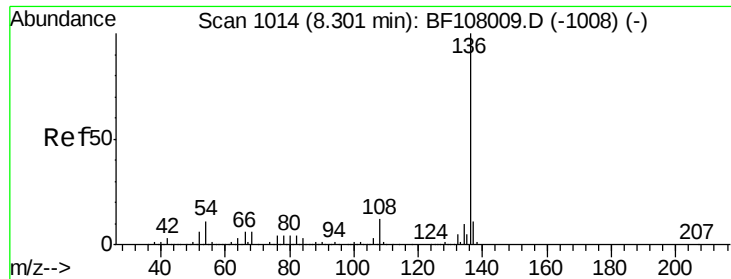
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

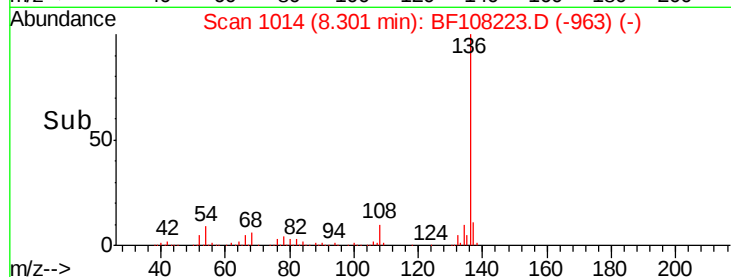
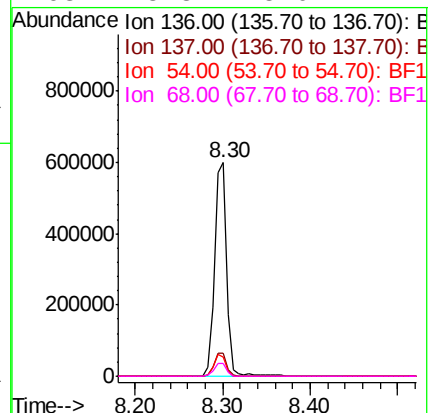
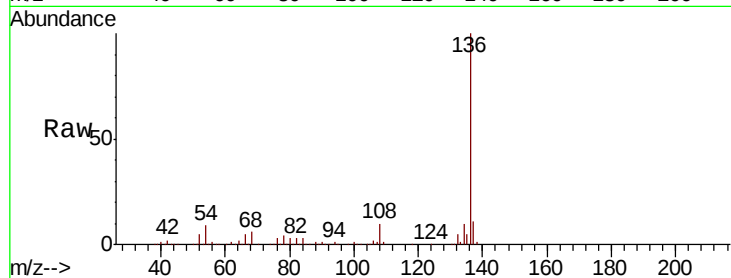




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. -0.00 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

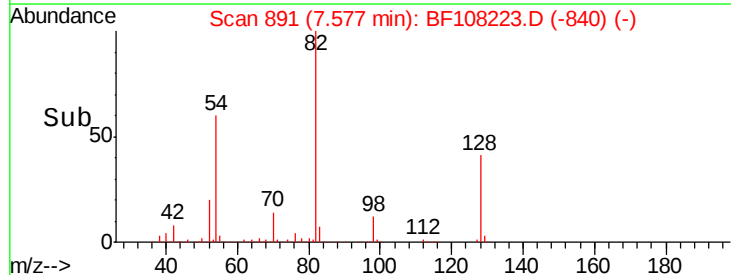
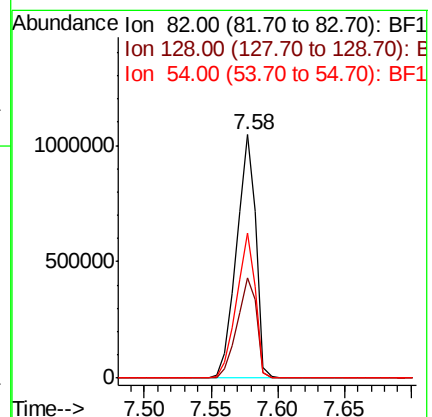
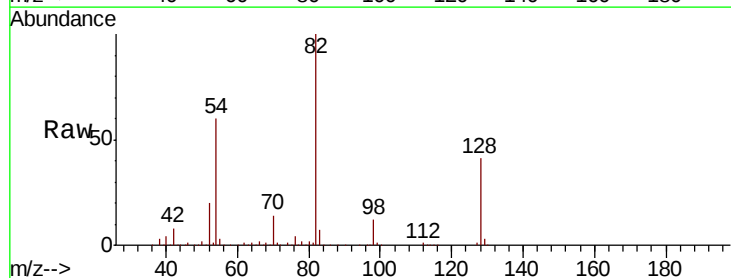
Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 573252 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.9   | 13.3   |
| 54       | 9.3   | 6.6   | 9.8    |
| 68       | 5.8   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 104.190 ng  
RT: 7.58 min Scan# 891  
Delta R.T. -0.00 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1070353 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 41.4  | 36.1  | 54.1    |
| 54       | 59.7  | 41.4  | 62.2    |

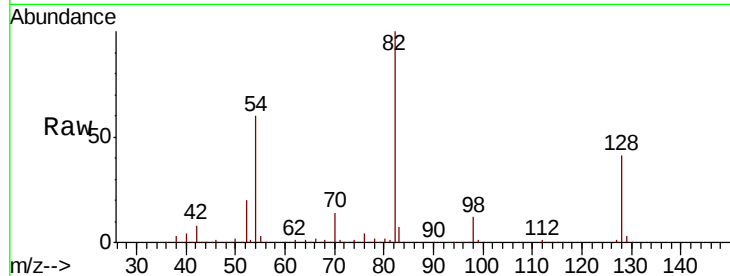




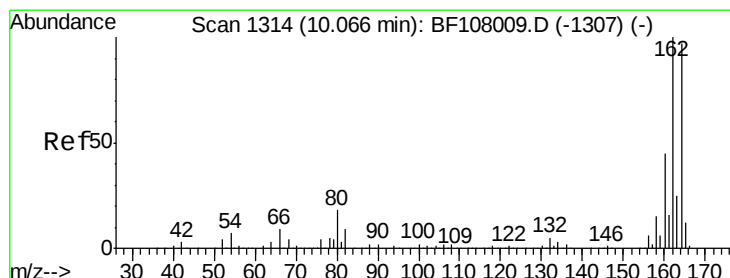
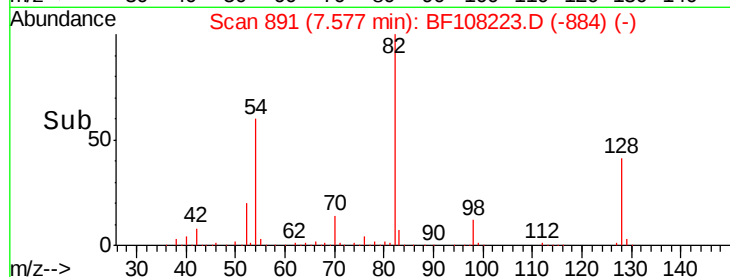
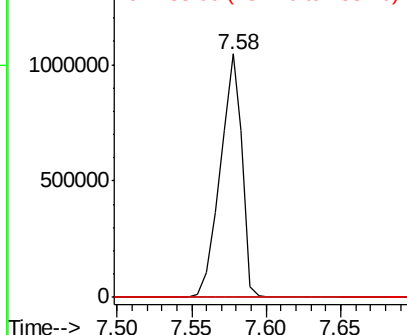
#25  
Isophorone  
Concen: 54.498 ng  
RT: 7.58 min Scan# 891  
Delta R.T. -0.26 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

Tgt Ion: 82 Resp: 1067126  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#

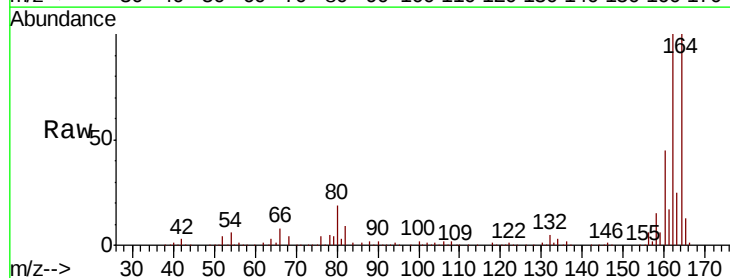


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

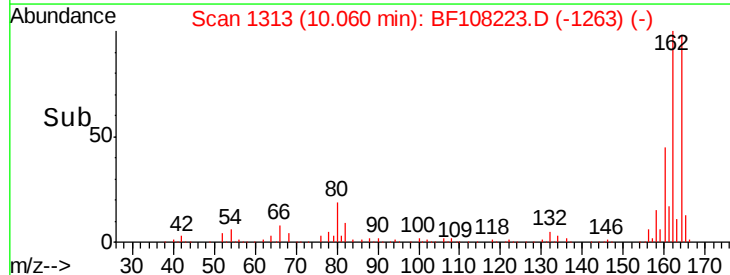
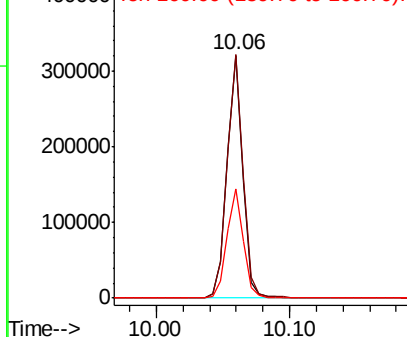


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Tgt Ion: 164 Resp: 269212  
Ion Ratio Lower Upper  
164 100  
162 100.4 86.1 129.1  
160 45.2 38.3 57.5



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

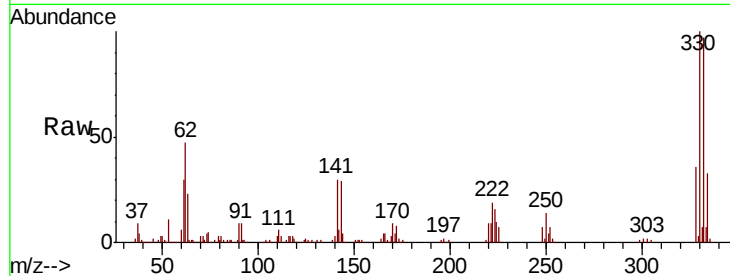




#41  
 2,4,6-Tribromophenol  
 Concen: 98.408 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. -0.01 min  
 Lab File: BF108223.D  
 Acq: 17 Aug 2018 4:10

Instrument :  
 BNA\_F  
 ClientSampleId :  
 081418-DBRI-F-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.0  | 115.6 |
| 141     | 32.5  | 29.9  | 44.9  |

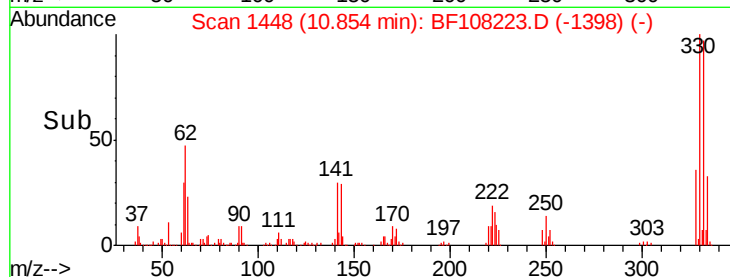
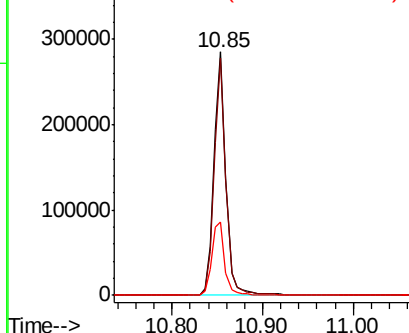


Abundance

Ion 329.80 (329.50 to 330.50): E

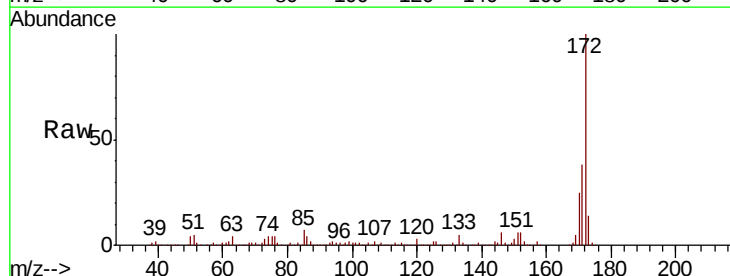
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 113.189 ng  
 RT: 9.37 min Scan# 1196  
 Delta R.T. -0.01 min  
 Lab File: BF108223.D  
 Acq: 17 Aug 2018 4:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.6  | 29.7  | 44.5  |
| 170     | 25.1  | 19.6  | 29.4  |

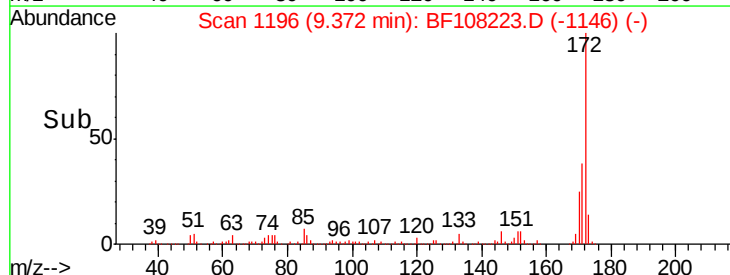
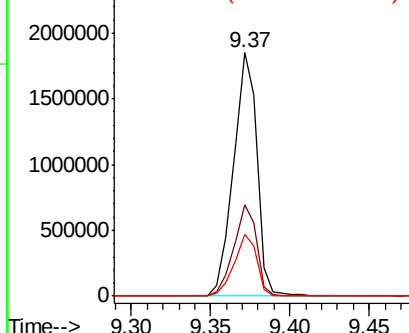


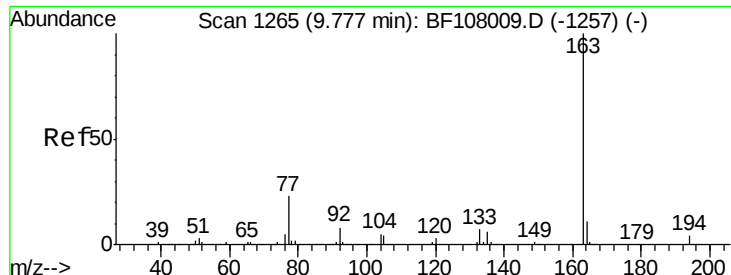
Abundance

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

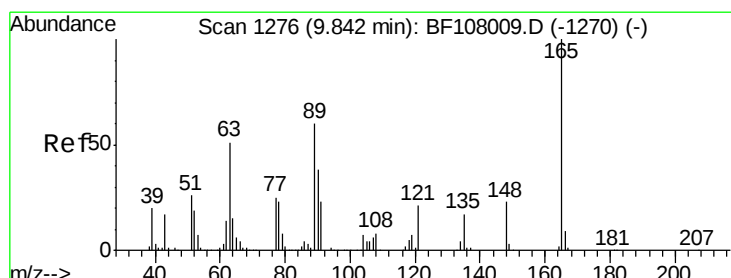
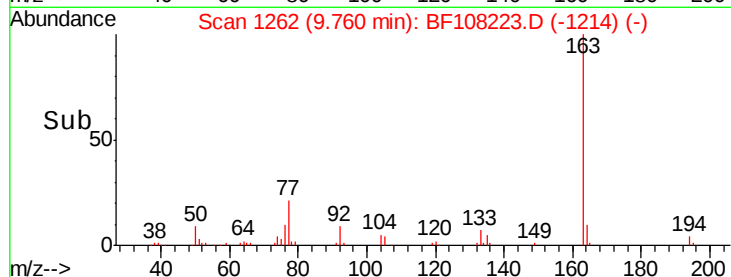
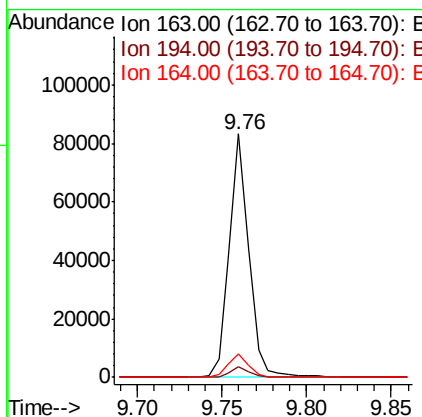
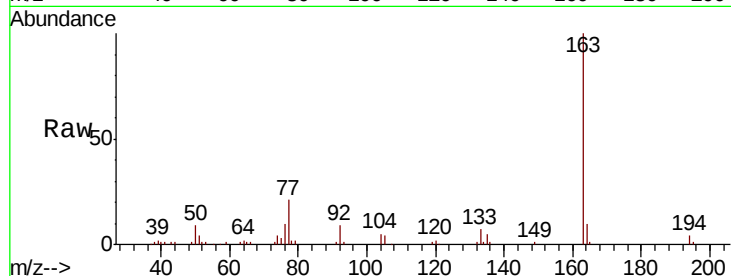




#49  
Dimethylphthalate  
Concen: 3.579 ng  
RT: 9.76 min Scan# 1262  
Delta R.T. -0.02 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

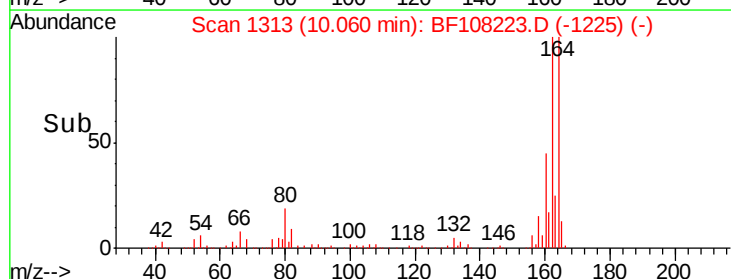
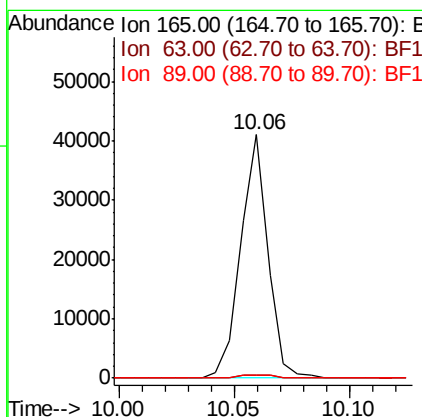
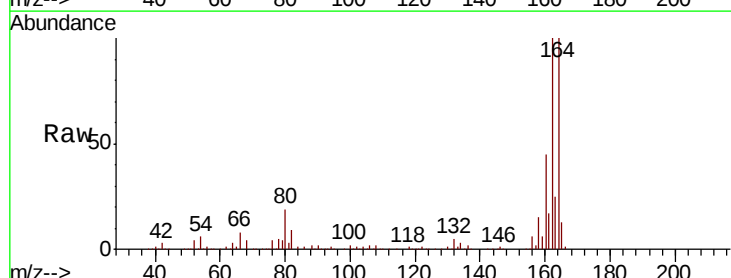
Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

Tgt Ion:163 Resp: 67118  
Ion Ratio Lower Upper  
163 100  
194 4.3 2.7 4.1#  
164 9.7 8.2 12.2



#50  
2,6-Dinitrotoluene  
Concen: 8.626 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. 0.22 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Tgt Ion:165 Resp: 33844  
Ion Ratio Lower Upper  
165 100  
63 1.2 44.7 67.1#  
89 1.4 44.0 66.0#

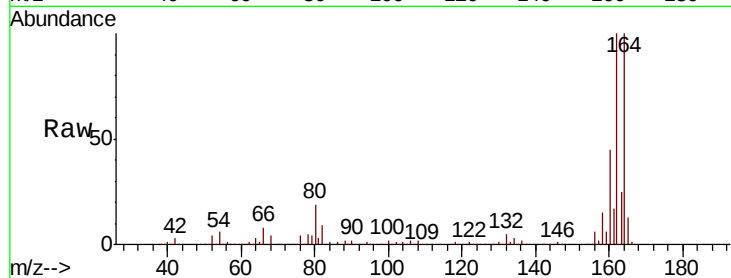




#56  
2,4-Dinitrotoluene  
Concen: 6.701 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. -0.19 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.4  | 54.6# |
| 89      | 1.4   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



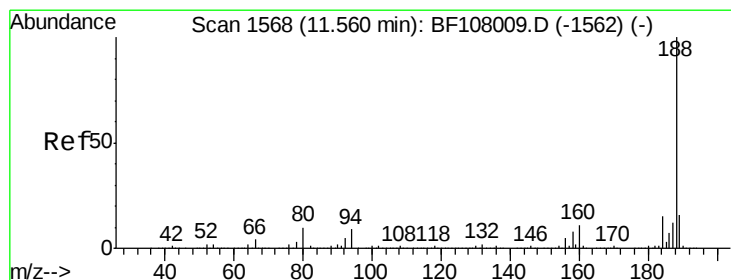
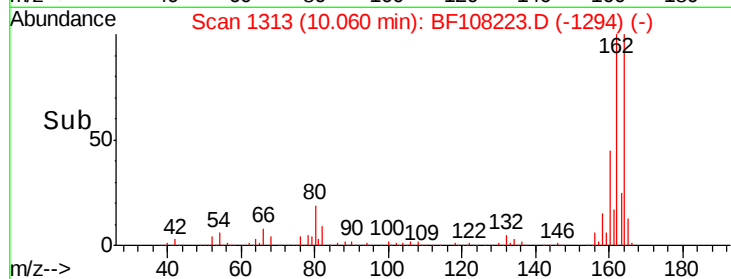
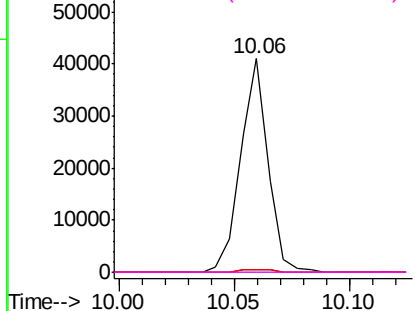
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

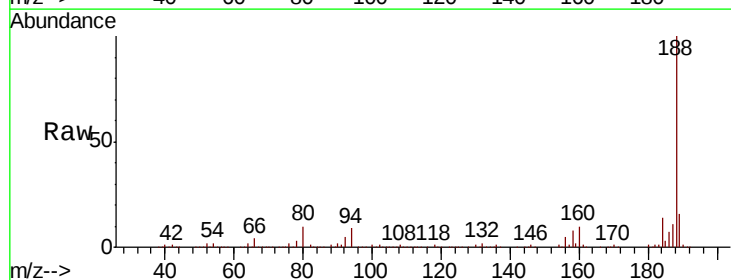
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.55 min Scan# 1567  
Delta R.T. -0.01 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 8.5   | 12.7  |
| 80      | 10.2  | 9.2   | 13.8  |

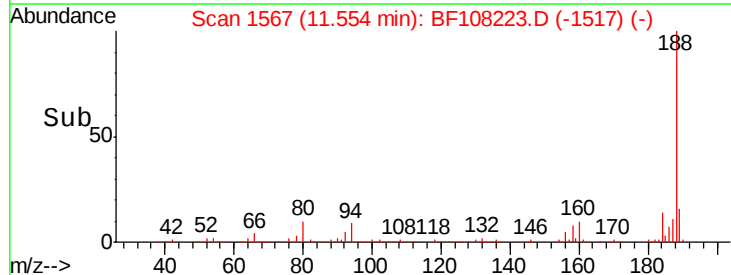
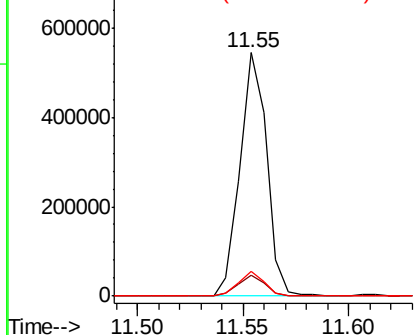


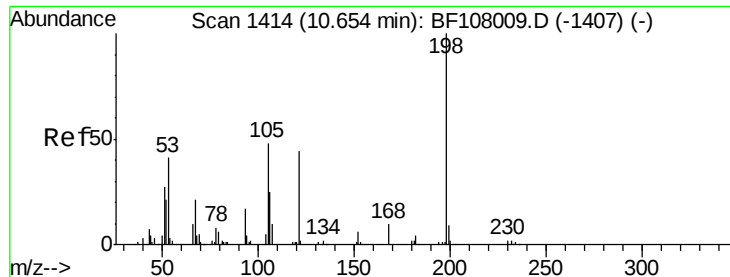
Abundance

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: 5.592 ng

RT: 10.85 min Scan# 1448

Delta R.T. 0.20 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

Instrument :

BNA\_F

ClientSampleId :

081418-DBRI-F-D-B

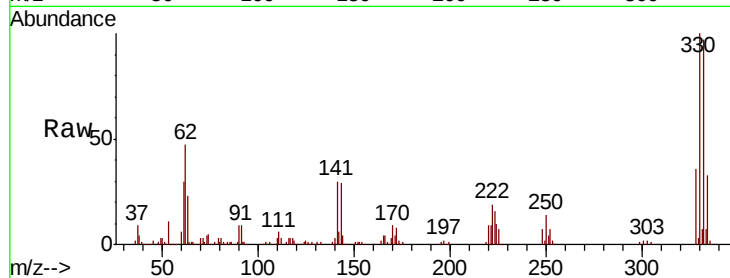
Tgt Ion:198 Resp: 471

Ion Ratio Lower Upper

198 100

51 238.6 37.7 77.7#

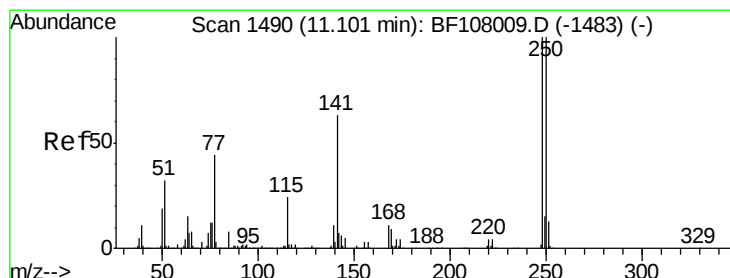
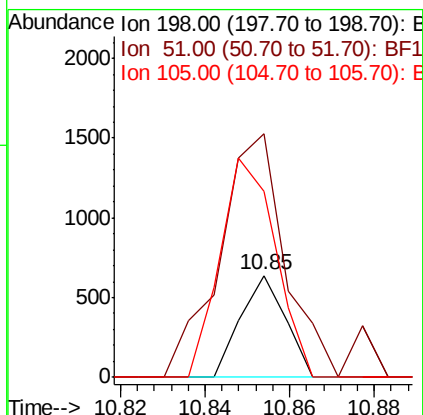
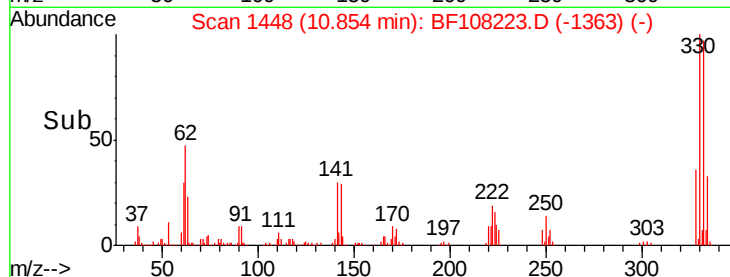
105 181.9 36.3 76.3#



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: 3.356 ng

RT: 10.85 min Scan# 1448

Delta R.T. -0.25 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

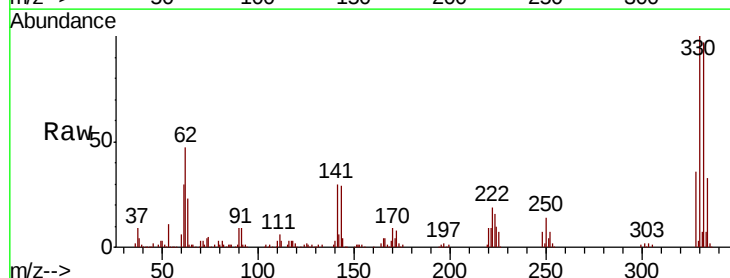
Tgt Ion:248 Resp: 17429

Ion Ratio Lower Upper

248 100

250 205.2 76.9 115.3#

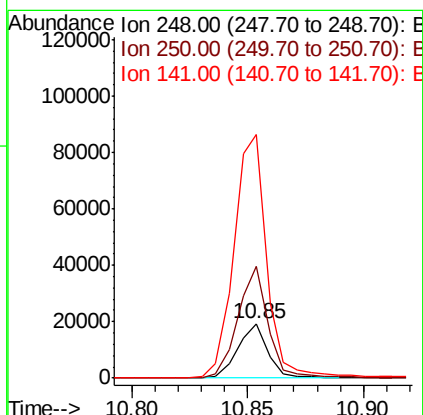
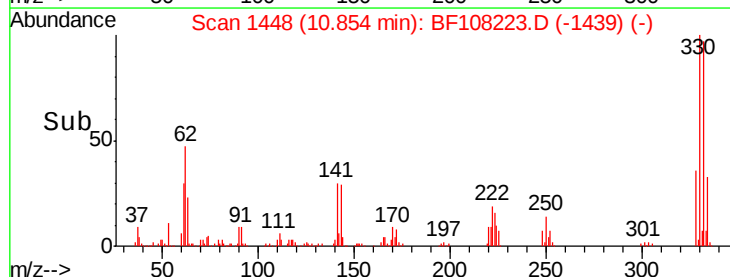
141 446.1 74.4 111.6#

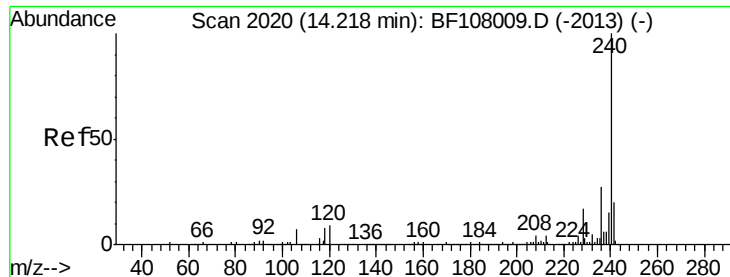


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.21 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

Instrument :

BNA\_F

ClientSampleId :

081418-DBRI-F-D-B

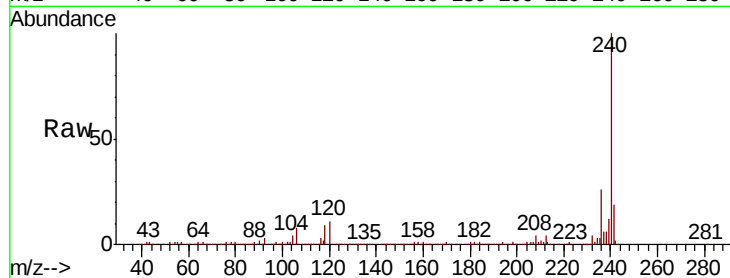
Tgt Ion:240 Resp: 452399

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

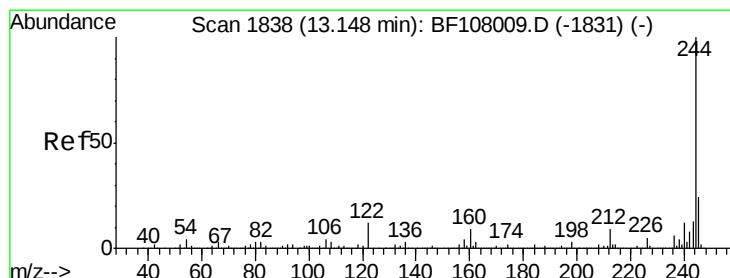
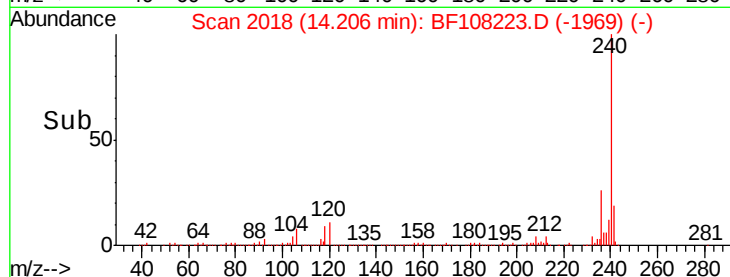
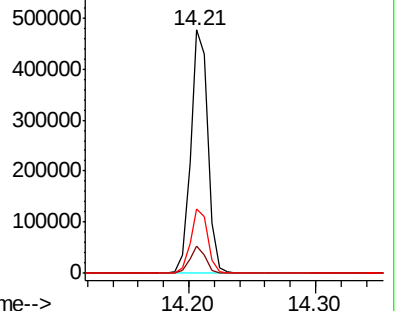
236 26.3 20.7 31.1



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: 99.144 ng

RT: 13.15 min Scan# 1838

Delta R.T. -0.00 min

Lab File: BF108223.D

Acq: 17 Aug 2018 4:10

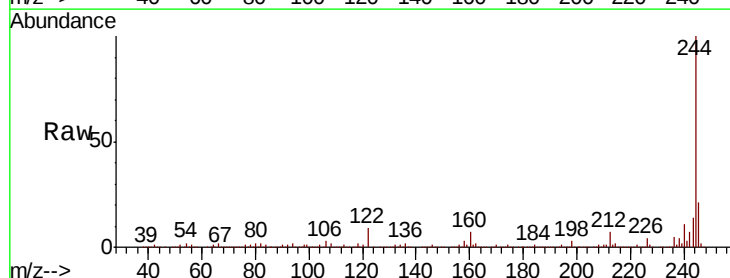
Tgt Ion:244 Resp: 1764077

Ion Ratio Lower Upper

244 100

212 7.5 5.4 8.0

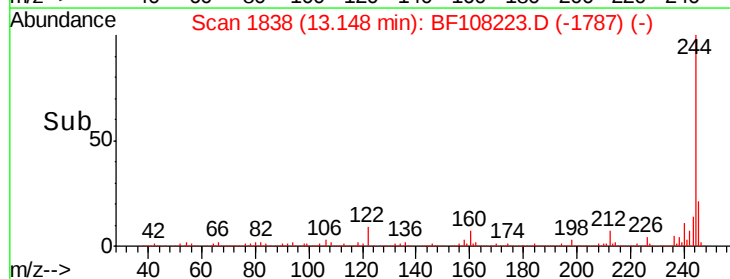
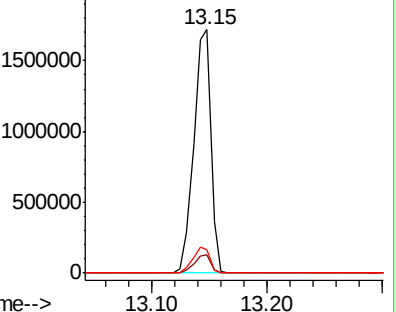
122 9.5 11.0 16.4#

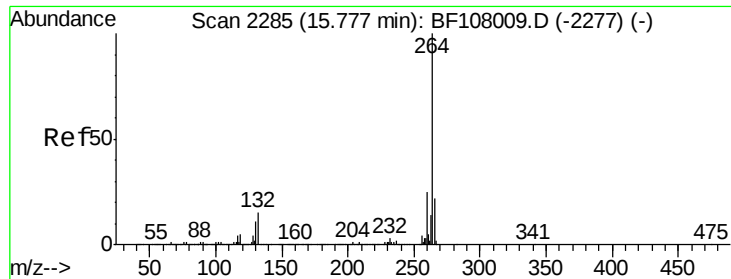


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.77 min Scan# 2284  
Delta R.T. -0.01 min  
Lab File: BF108223.D  
Acq: 17 Aug 2018 4:10

Instrument :  
BNA\_F  
ClientSampleId :  
081418-DBRI-F-D-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.2  | 28.8  |
| 265     | 22.0  | 17.5  | 26.3  |

