

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061418\  
 Data File : BF106472.D  
 Acq On : 15 Jun 2018 5:04  
 Operator : JU/SJ  
 Sample : J3474-05  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 061118-DBRI-E-U-M

Quant Time: Jun 15 08:27:19 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 14 18:39:24 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 108850   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 369209   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 144613   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.49 | 188  | 279041   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.14 | 240  | 286132   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.68 | 264  | 198218   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 297969   | 46.33  | ng    | 0.00     |
| 7) Phenol-d6                | 6.61  | 99   | 229602   | 28.26  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 634467   | 101.09 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 147736   | 106.18 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 987175   | 156.52 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 1112129  | 96.54  | ng    | 0.00     |

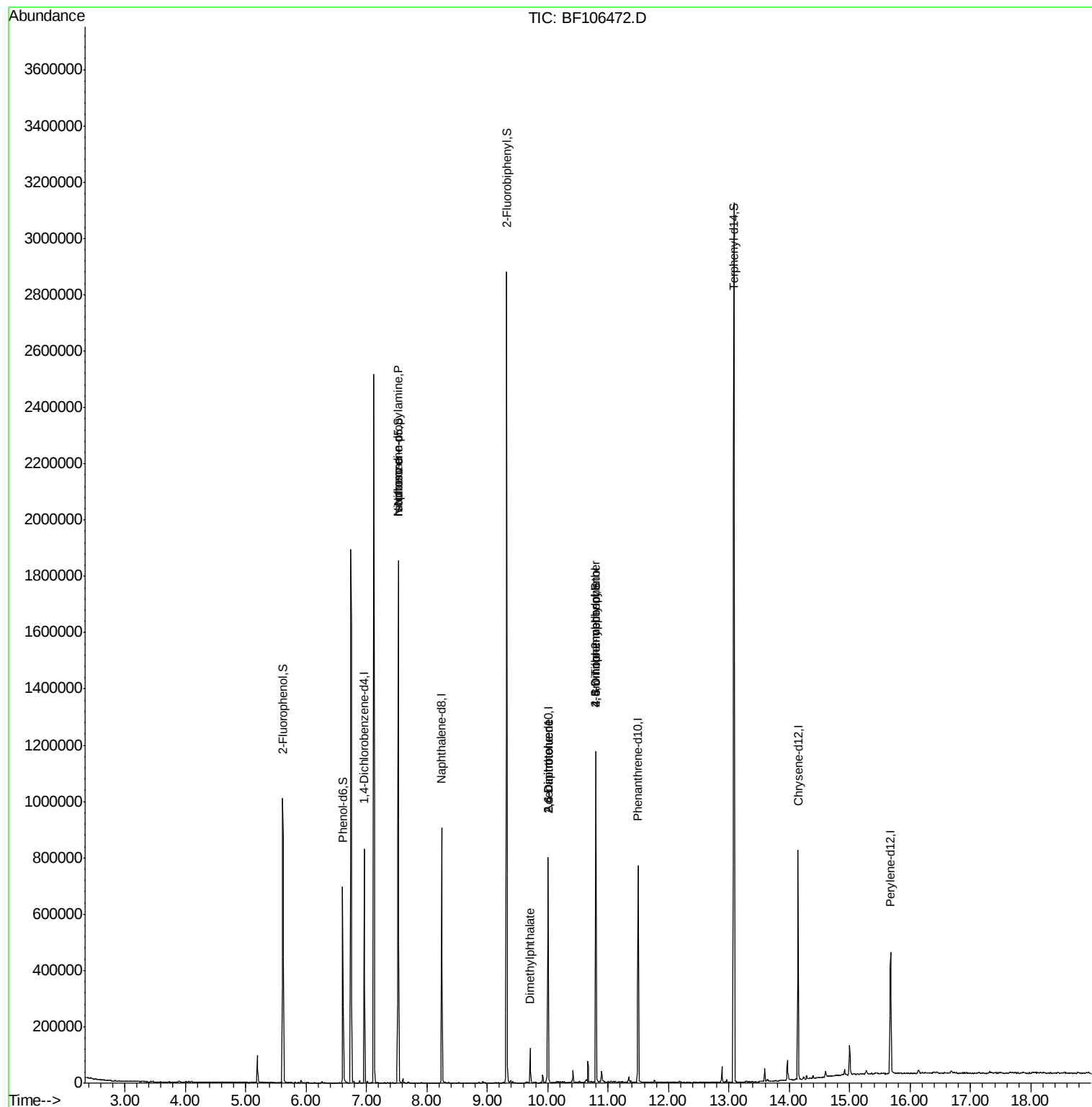
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 85264    | 13.987 | ng    | # 74   |
| 25) Isophorone                 | 7.53  | 82   | 634461   | 51.757 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.71  | 163  | 46499    | 4.501  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 10.01 | 165  | 17536    | 8.309  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 10.01 | 165  | 17536    | 6.617  | ng    | # 22   |
| 64) 4,6-Dinitro-2-methylphenol | 10.79 | 198  | 262      | 6.446  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 9769     | 3.078  | ng    | # 1    |

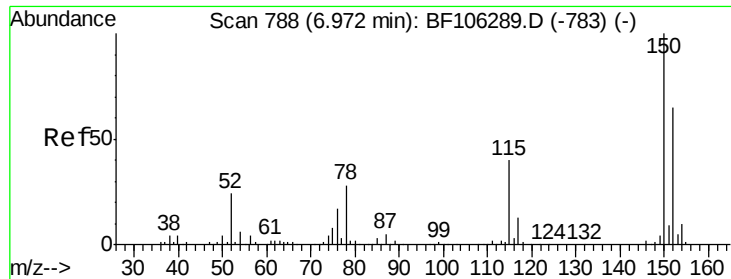
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061418\  
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Sample : J3474-05  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
061118-DBRI-E-U-M

Quant Time: Jun 15 08:27:19 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 14 18:39:24 2018  
Response via : Initial Calibration

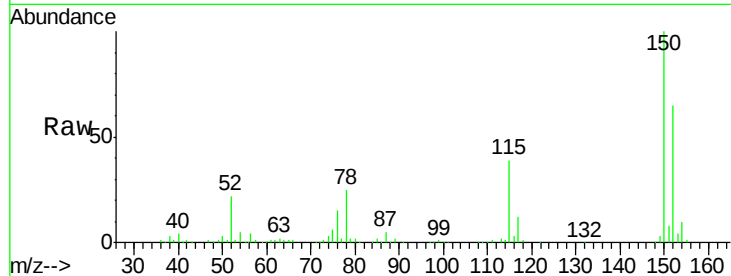




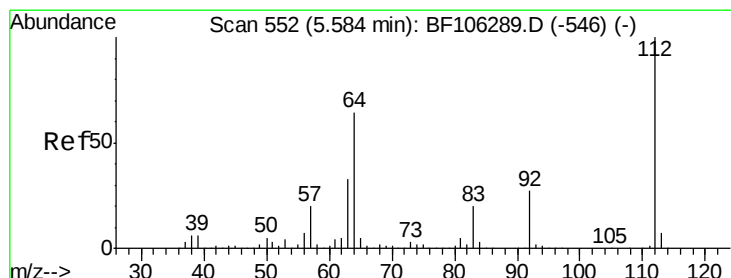
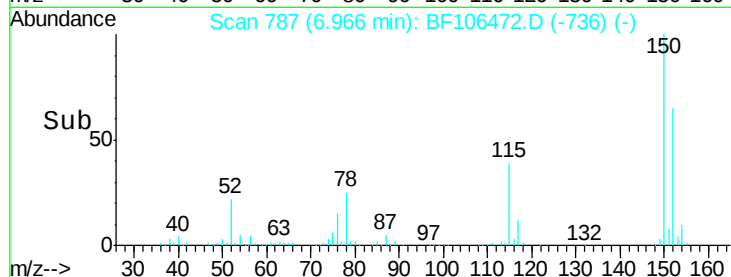
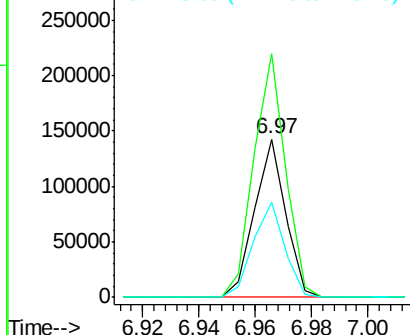
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 787  
 Delta R.T. -0.00 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 061118-DBRI-E-U-M

Tgt Ion:152 Resp: 108850  
 Ion Ratio Lower Upper  
 152 100  
 150 154.0 124.6 186.8  
 115 59.8 50.1 75.1

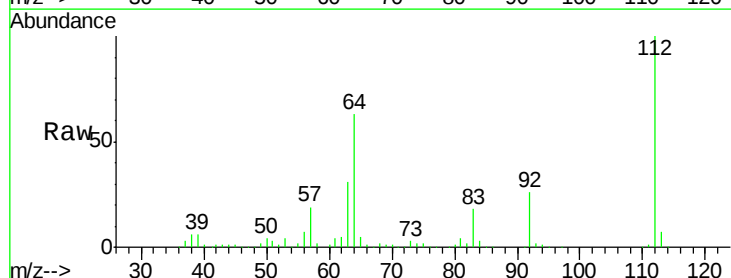


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

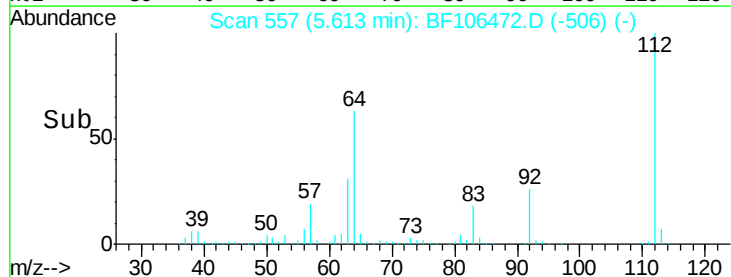
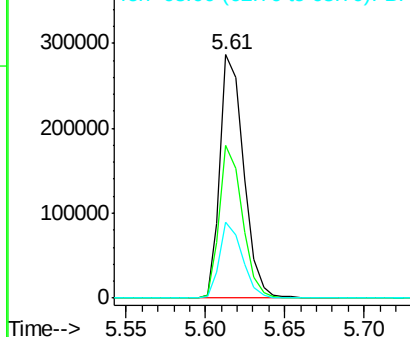


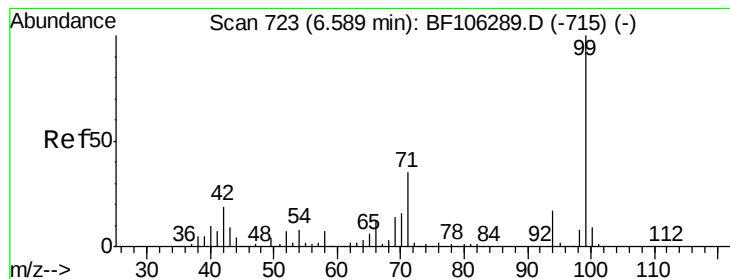
#5  
 2-Fluorophenol  
 Concen: 46.331 ng  
 RT: 5.61 min Scan# 557  
 Delta R.T. -0.00 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

Tgt Ion:112 Resp: 297969  
 Ion Ratio Lower Upper  
 112 100  
 64 62.8 47.9 71.9  
 63 31.0 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: 28.257 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

Instrument :

BNA\_F

ClientSampleId :

061118-DBRI-E-U-M

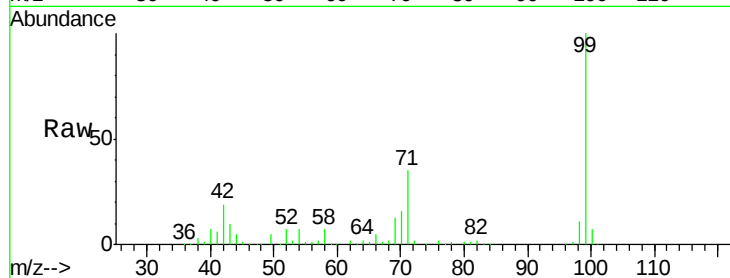
Tgt Ion: 99 Resp: 229602

Ion Ratio Lower Upper

99 100

42 18.5 14.5 21.7

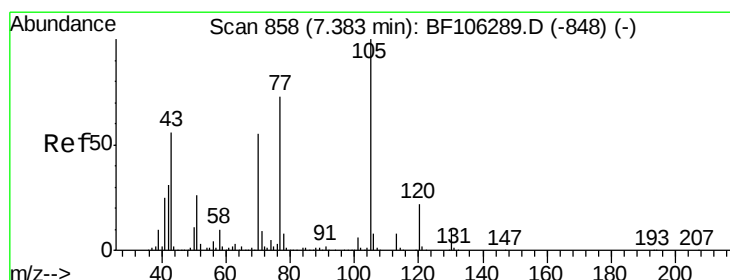
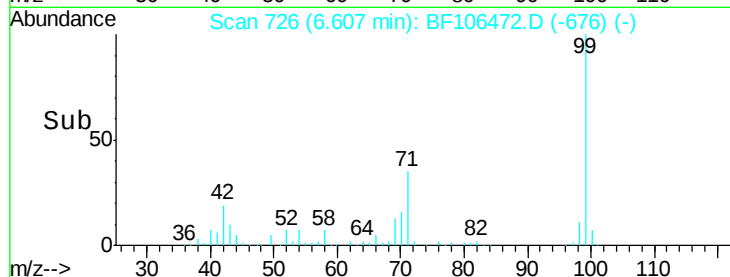
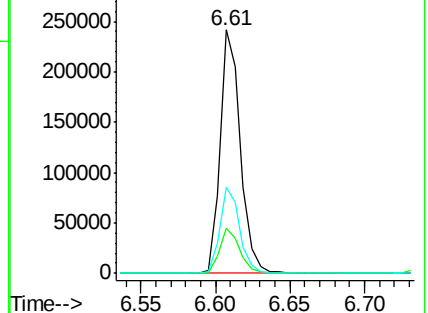
71 35.2 25.4 38.0



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: 13.987 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.15 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

Tgt Ion: 70 Resp: 85264

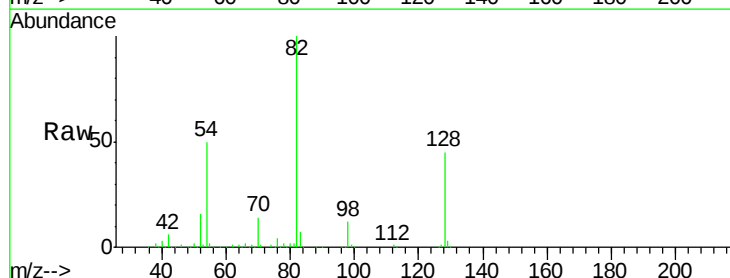
Ion Ratio Lower Upper

70 100

42 43.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

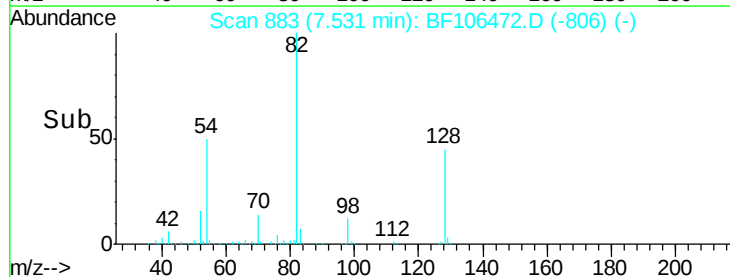
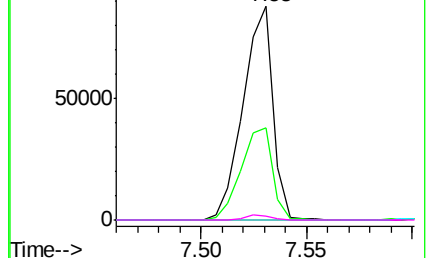


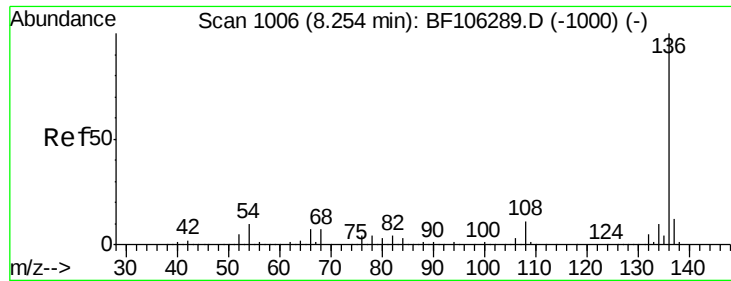
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

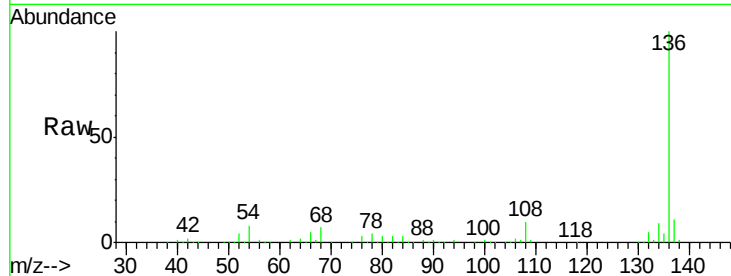




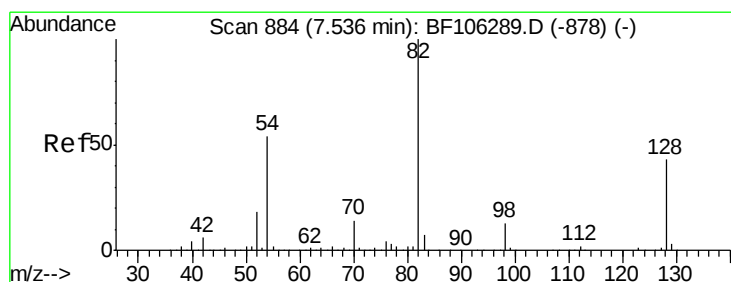
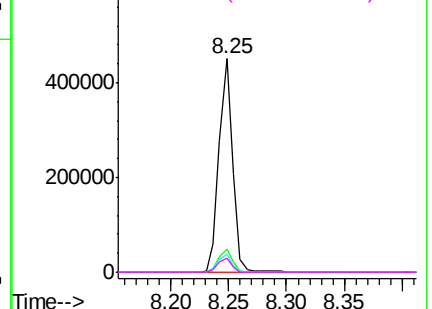
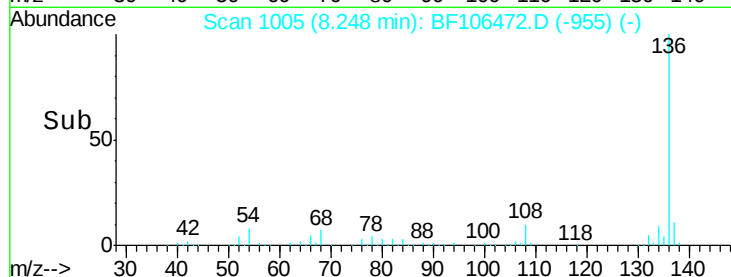
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF106472.D  
Acq: 15 Jun 2018 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
061118-DBRI-E-U-M

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 369209 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.9   | 13.3   |
| 54       | 8.1   | 6.6   | 9.8    |
| 68       | 6.6   | 5.0   | 7.4    |

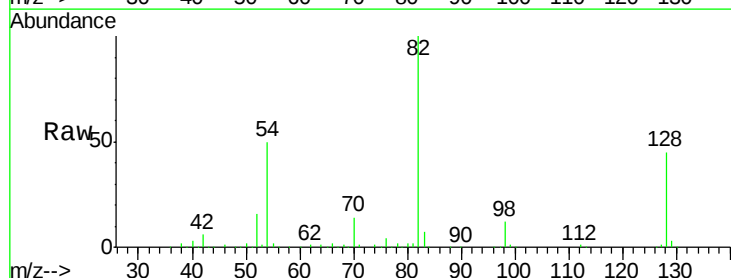


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

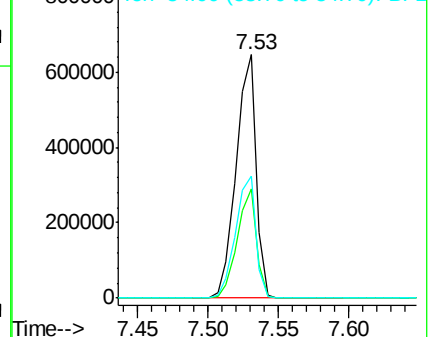
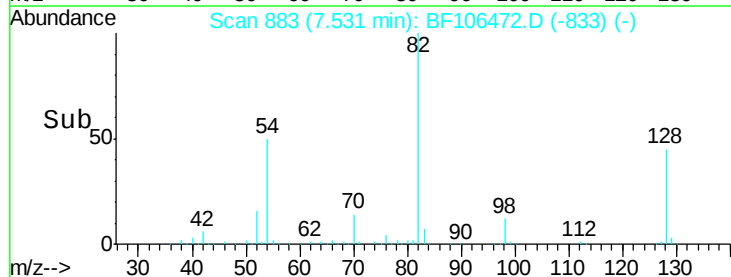


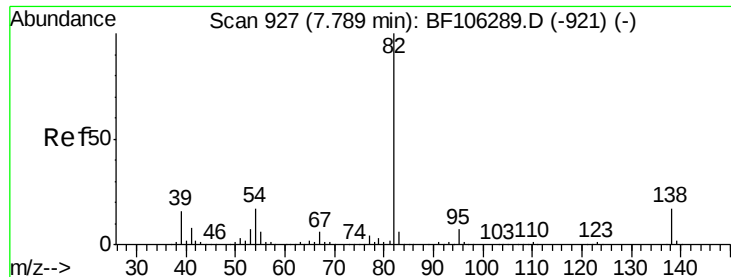
#23  
Nitrobenzene-d5  
Concen: 101.094 ng  
RT: 7.53 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF106472.D  
Acq: 15 Jun 2018 5:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 634467 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.6  | 36.1  | 54.1   |
| 54       | 50.0  | 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: 51.757 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

Instrument :

BNA\_F

ClientSampleId :

061118-DBRI-E-U-M

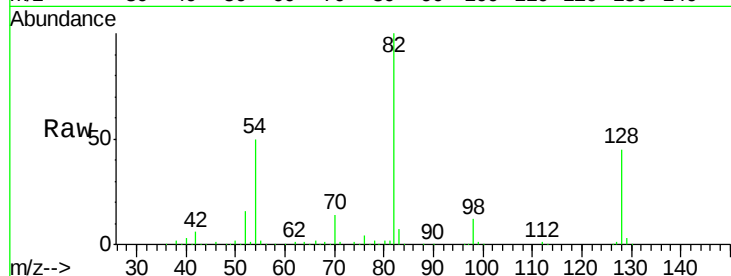
Tgt Ion: 82 Resp: 634461

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

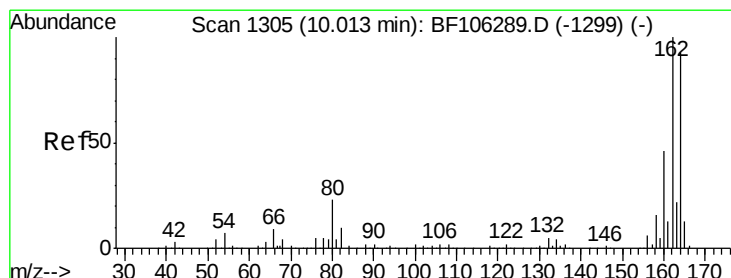
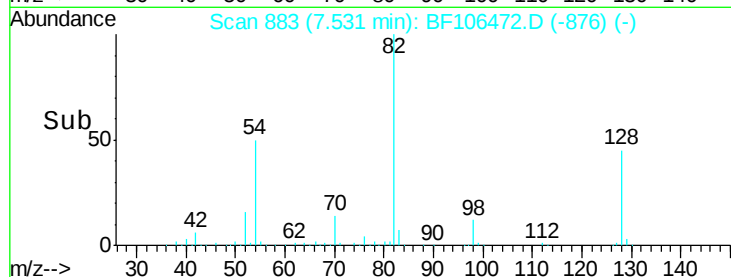
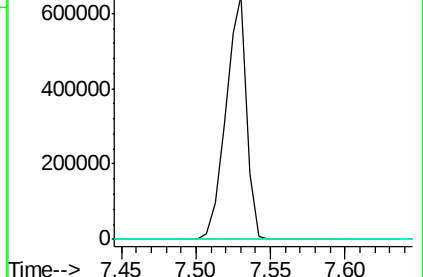
138 0.0 14.9 22.3#



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: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

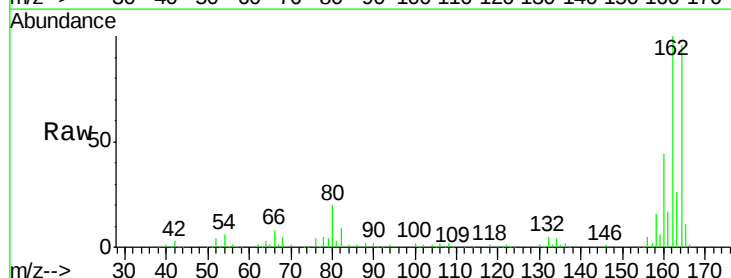
Tgt Ion: 164 Resp: 144613

Ion Ratio Lower Upper

164 100

162 103.9 86.1 129.1

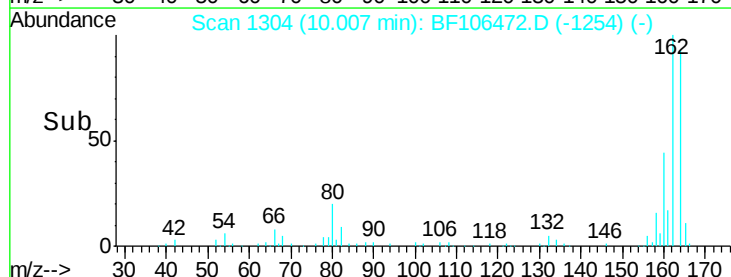
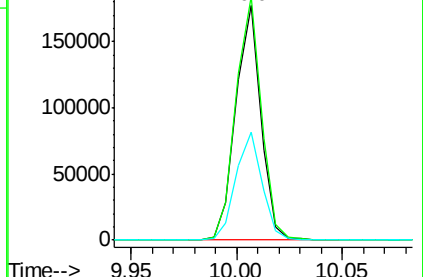
160 46.1 38.3 57.5

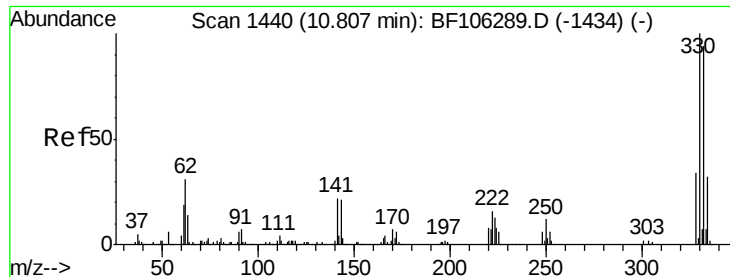


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

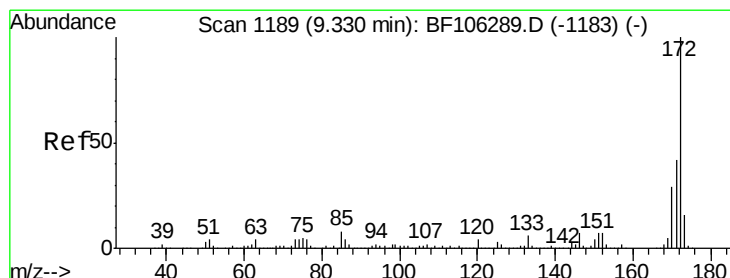
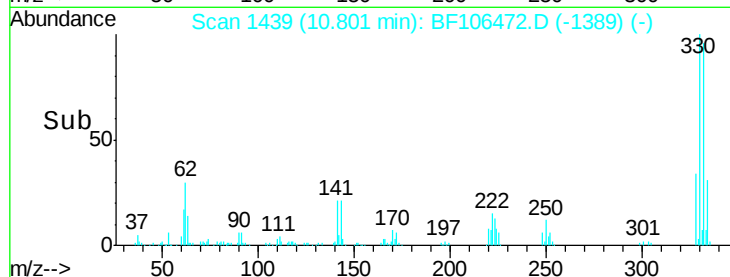
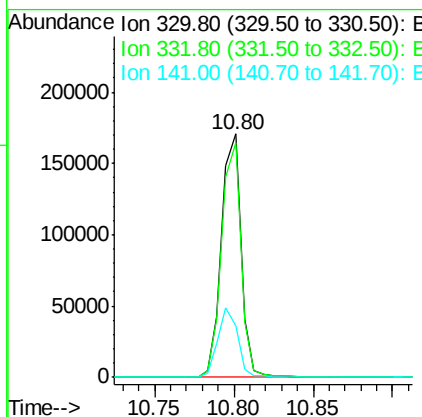
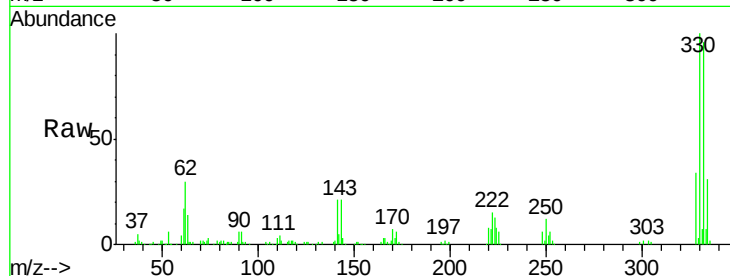




#41  
 2,4,6-Tribromophenol  
 Concen: 106.176 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.01 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

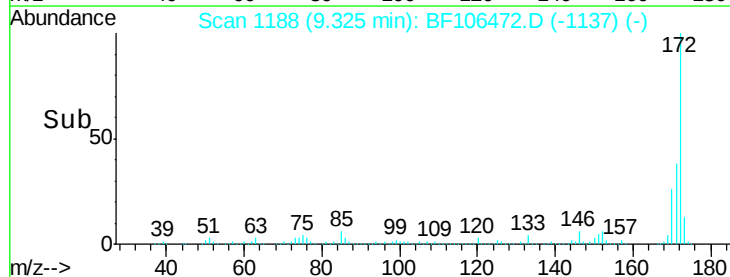
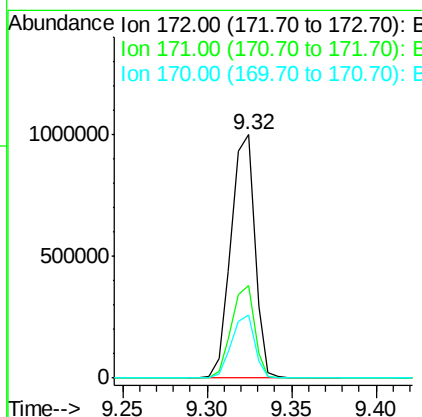
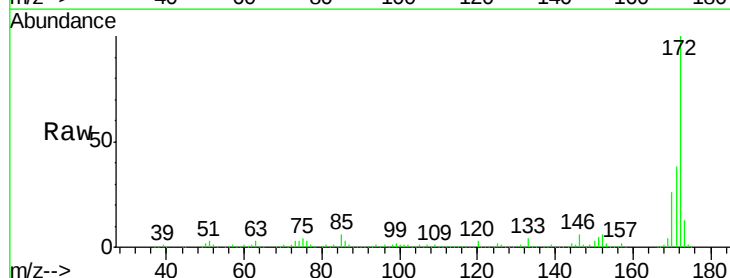
Instrument :  
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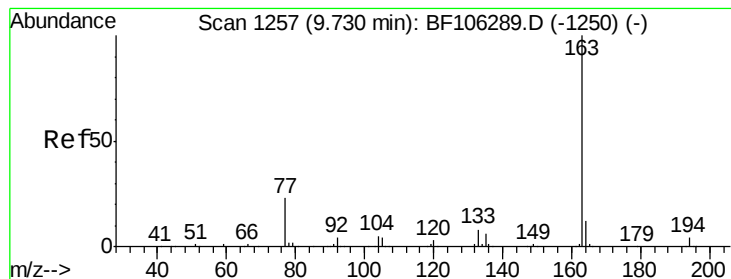
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.0  | 115.6 |
| 141     | 28.9  | 29.9  | 44.9# |



#44  
 2-Fluorobiphenyl  
 Concen: 156.519 ng  
 RT: 9.32 min Scan# 1188  
 Delta R.T. -0.00 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 29.7  | 44.5  |
| 170     | 25.9  | 19.6  | 29.4  |





#49

Dimethylphthalate

Concen: 4.501 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.01 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

Instrument :

BNA\_F

ClientSampleId :

061118-DBRI-E-U-M

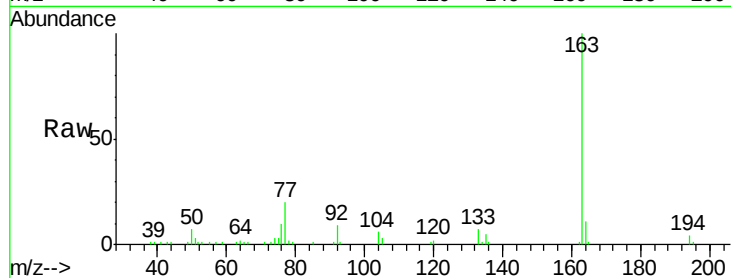
Tgt Ion:163 Resp: 46499

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

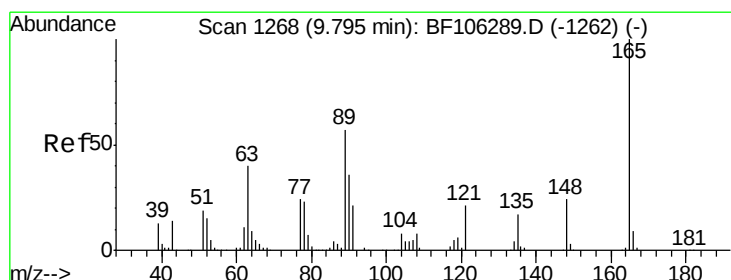
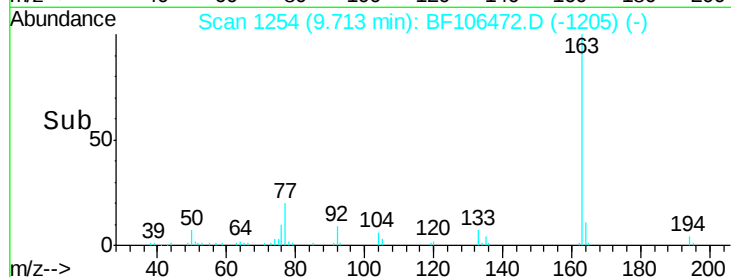
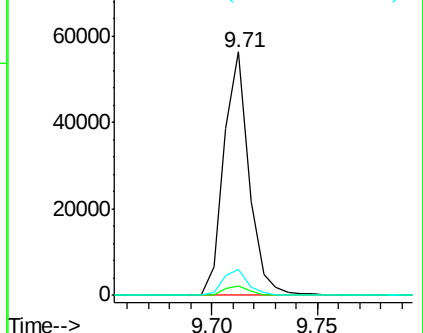
164 10.7 8.2 12.2



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: 8.309 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.21 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

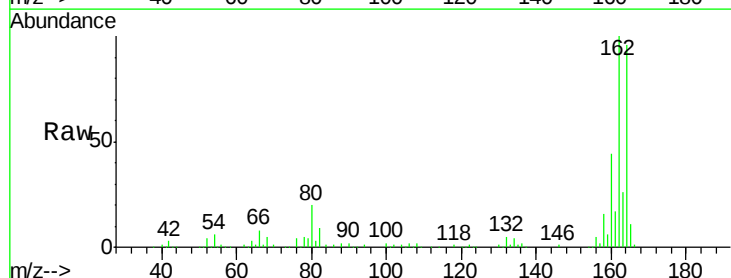
Tgt Ion:165 Resp: 17536

Ion Ratio Lower Upper

165 100

63 1.9 44.7 67.1#

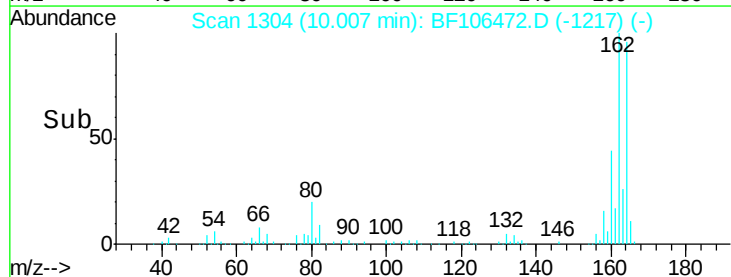
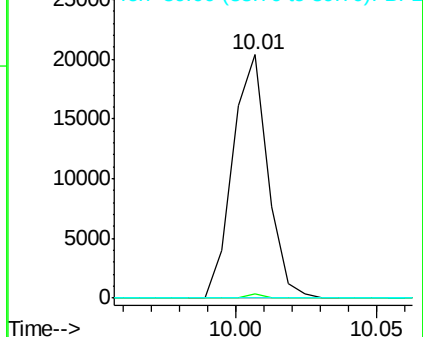
89 0.0 44.0 66.0#

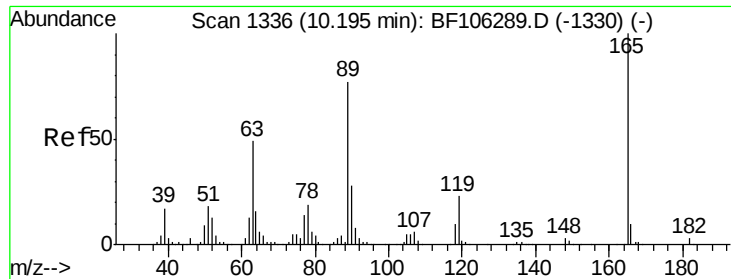


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

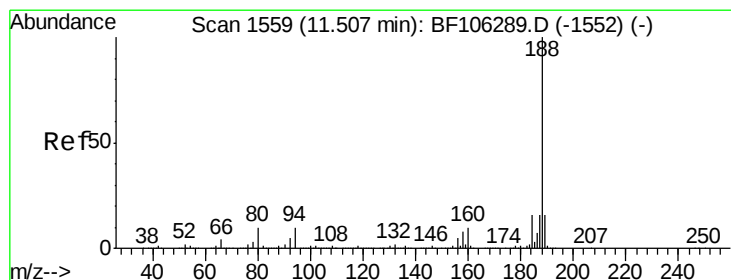
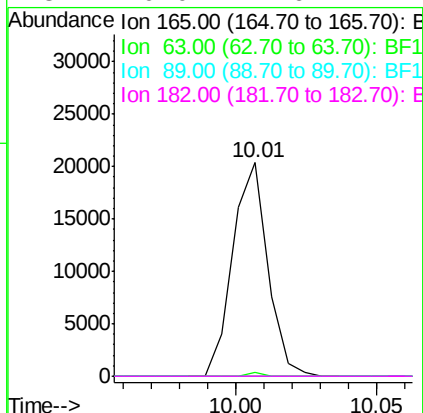
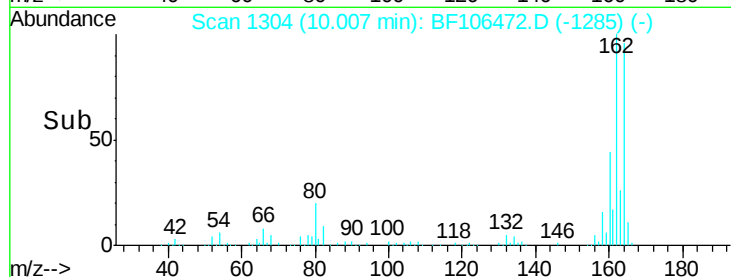
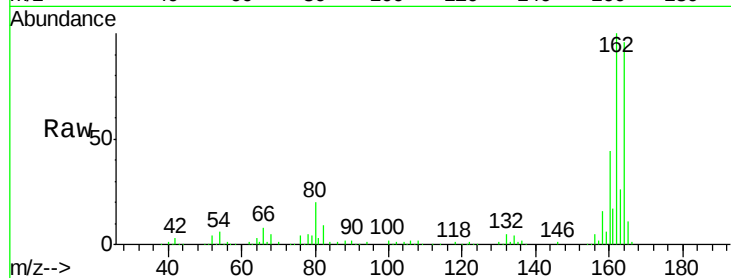




#56  
2,4-Dinitrotoluene  
Concen: 6.617 ng  
RT: 10.01 min Scan# 1304  
Delta R.T. -0.19 min  
Lab File: BF106472.D  
Acq: 15 Jun 2018 5:04

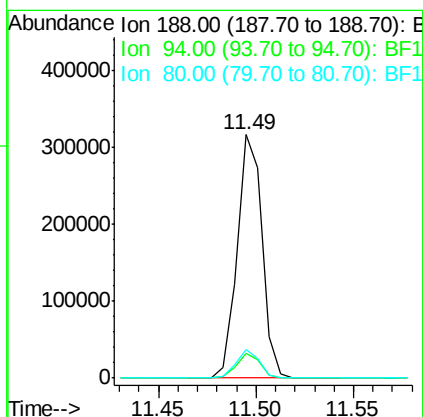
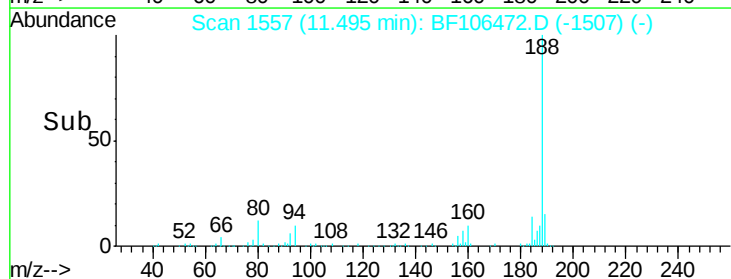
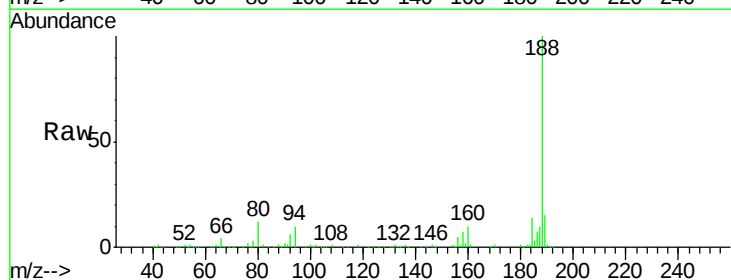
Instrument :  
BNA\_F  
ClientSampleId :  
061118-DBRI-E-U-M

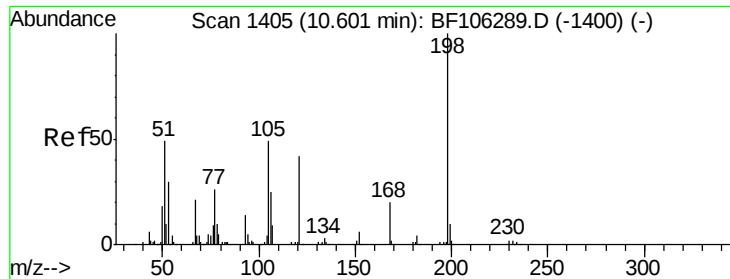
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 17536 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.9   | 36.4  | 54.6# |
| 89        | 0.0   | 57.8  | 86.6# |
| 182       | 0.0   | 1.6   | 2.4#  |



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1557  
Delta R.T. -0.01 min  
Lab File: BF106472.D  
Acq: 15 Jun 2018 5:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 279041 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.1  | 8.5   | 12.7   |
| 80        | 11.5  | 9.2   | 13.8   |

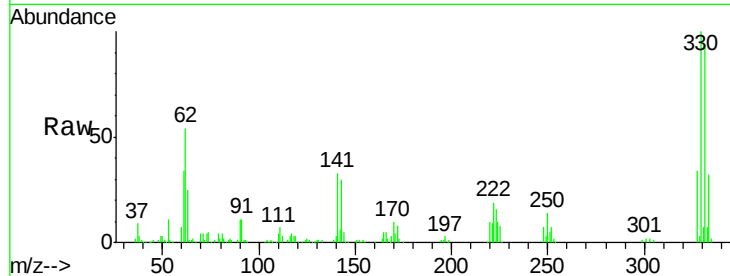




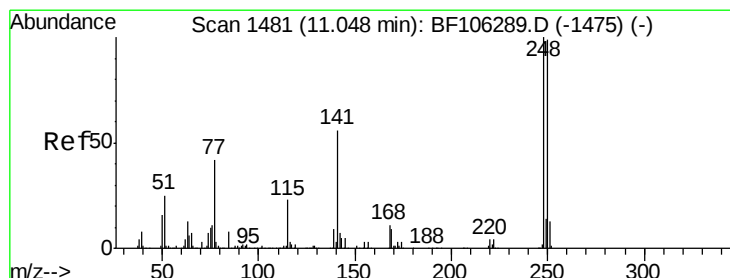
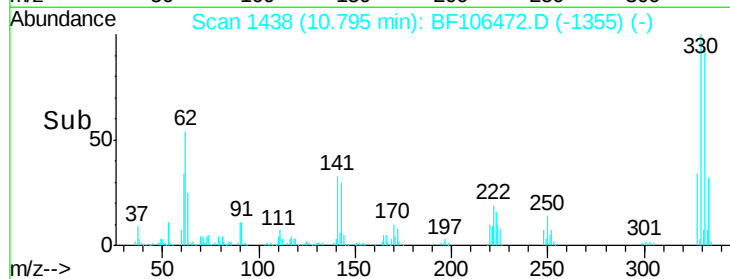
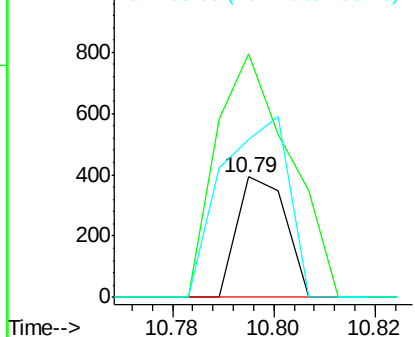
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.446 ng  
 RT: 10.79 min Scan# 1438  
 Delta R.T. 0.19 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

Instrument :  
 BNA\_F  
 ClientSampleId :  
 061118-DBRI-E-U-M

Tgt Ion:198 Resp: 262  
 Ion Ratio Lower Upper  
 198 100  
 51 202.3 37.7 77.7#  
 105 130.8 36.3 76.3#

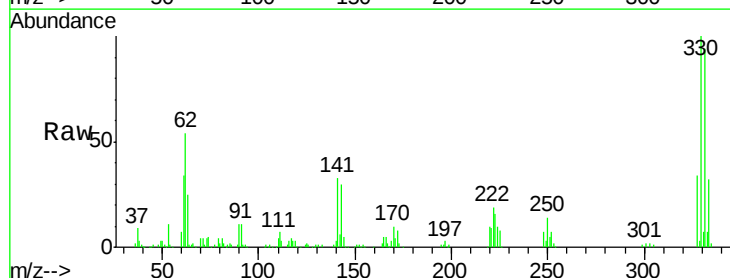


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

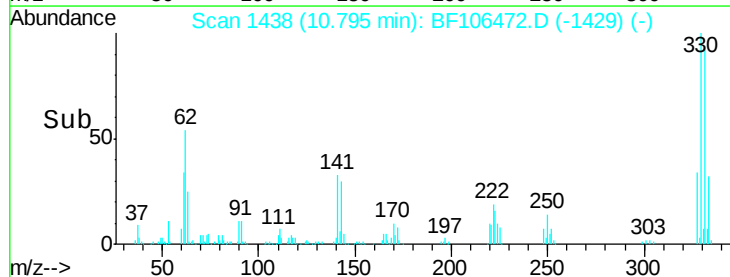
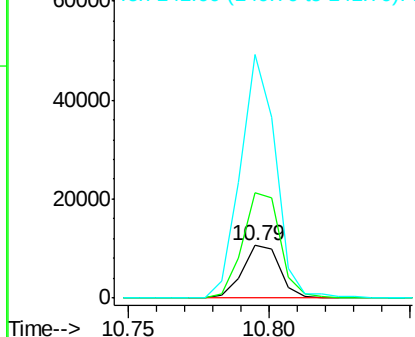


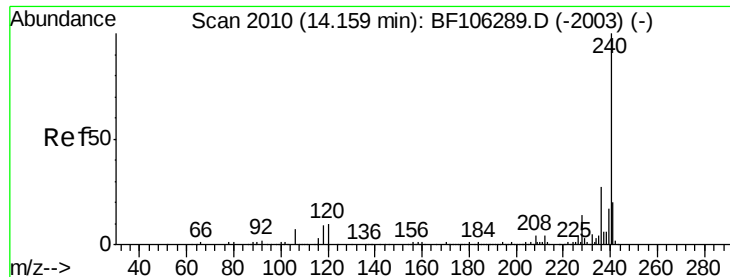
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.078 ng  
 RT: 10.79 min Scan# 1438  
 Delta R.T. -0.25 min  
 Lab File: BF106472.D  
 Acq: 15 Jun 2018 5:04

Tgt Ion:248 Resp: 9769  
 Ion Ratio Lower Upper  
 248 100  
 250 199.4 76.9 115.3#  
 141 463.2 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: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

Instrument :

BNA\_F

ClientSampleId :

061118-DBRI-E-U-M

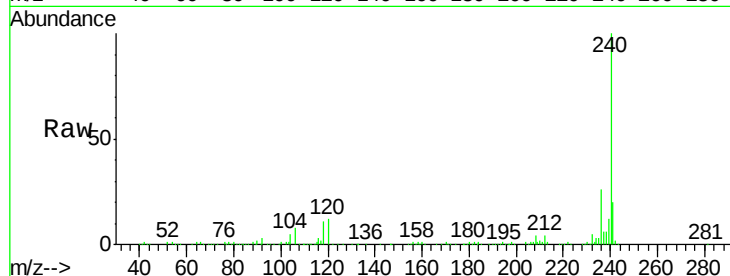
Tgt Ion:240 Resp: 286132

Ion Ratio Lower Upper

240 100

120 11.6 9.5 14.3

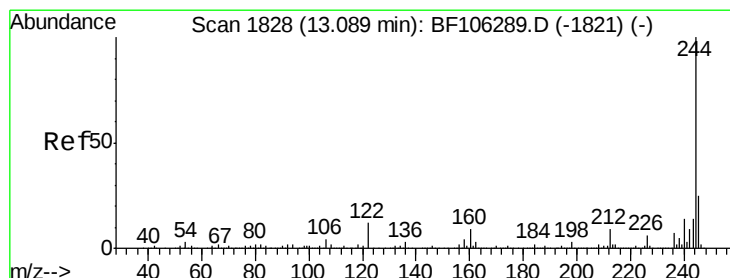
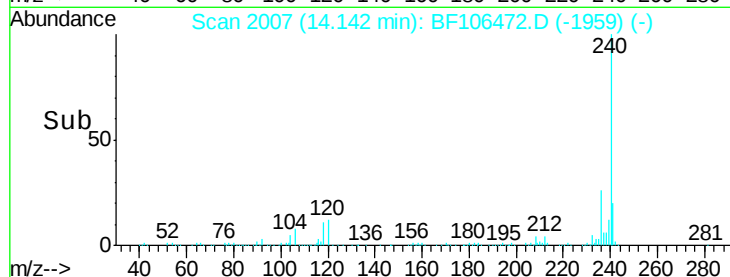
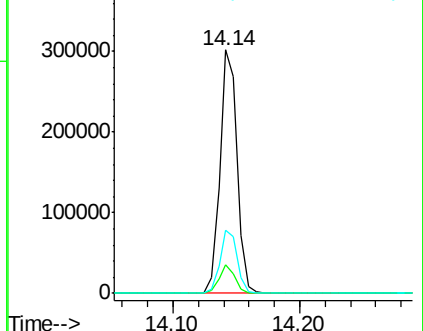
236 26.1 20.7 31.1



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: 96.539 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF106472.D

Acq: 15 Jun 2018 5:04

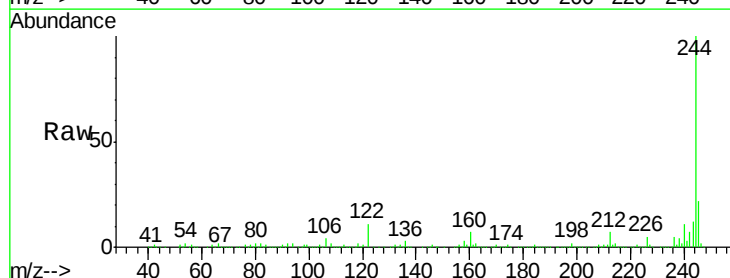
Tgt Ion:244 Resp: 1112129

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

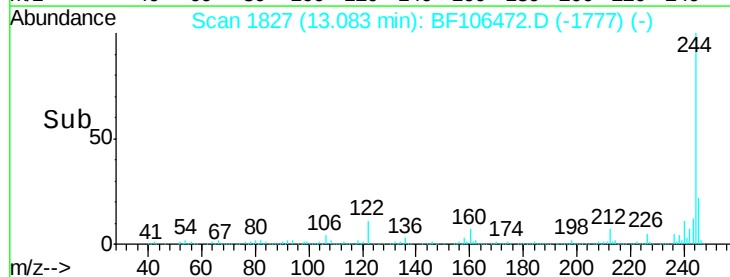
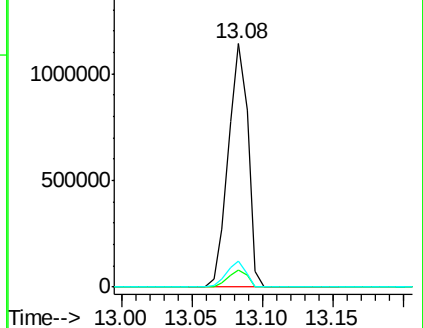
122 10.7 11.0 16.4#

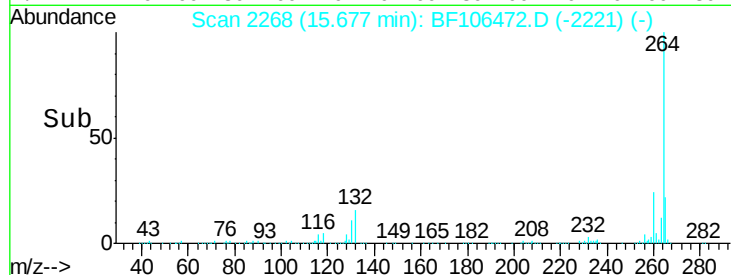
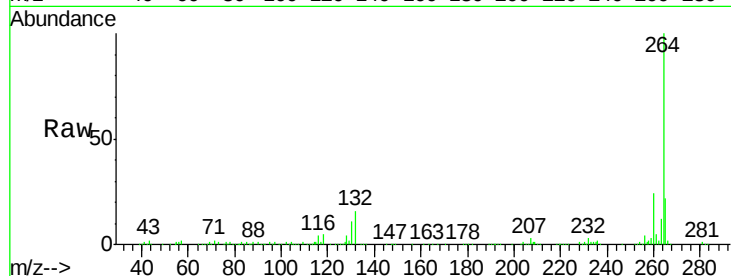
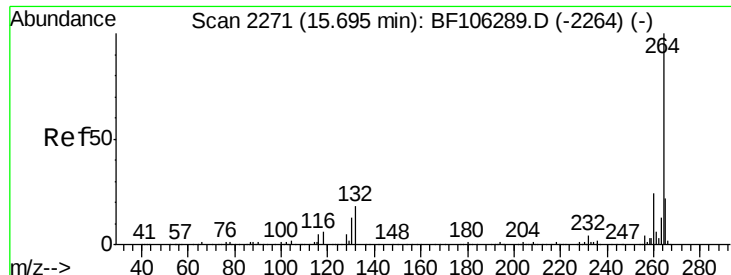


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2268  
Delta R.T. -0.02 min  
Lab File: BF106472.D  
Acq: 15 Jun 2018 5:04

Instrument :  
BNA\_F  
ClientSampleId :  
061118-DBRI-E-U-M

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 198218 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.6  | 19.2  | 28.8   |
| 265       | 21.6  | 17.5  | 26.3   |

