

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022618\  
 Data File : BF103246.D  
 Acq On : 27 Feb 2018 4:07  
 Operator : SJ/JU  
 Sample : J1649-02  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 27 04:54:01 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 23 02:43:46 2018  
 Response via : Initial Calibration

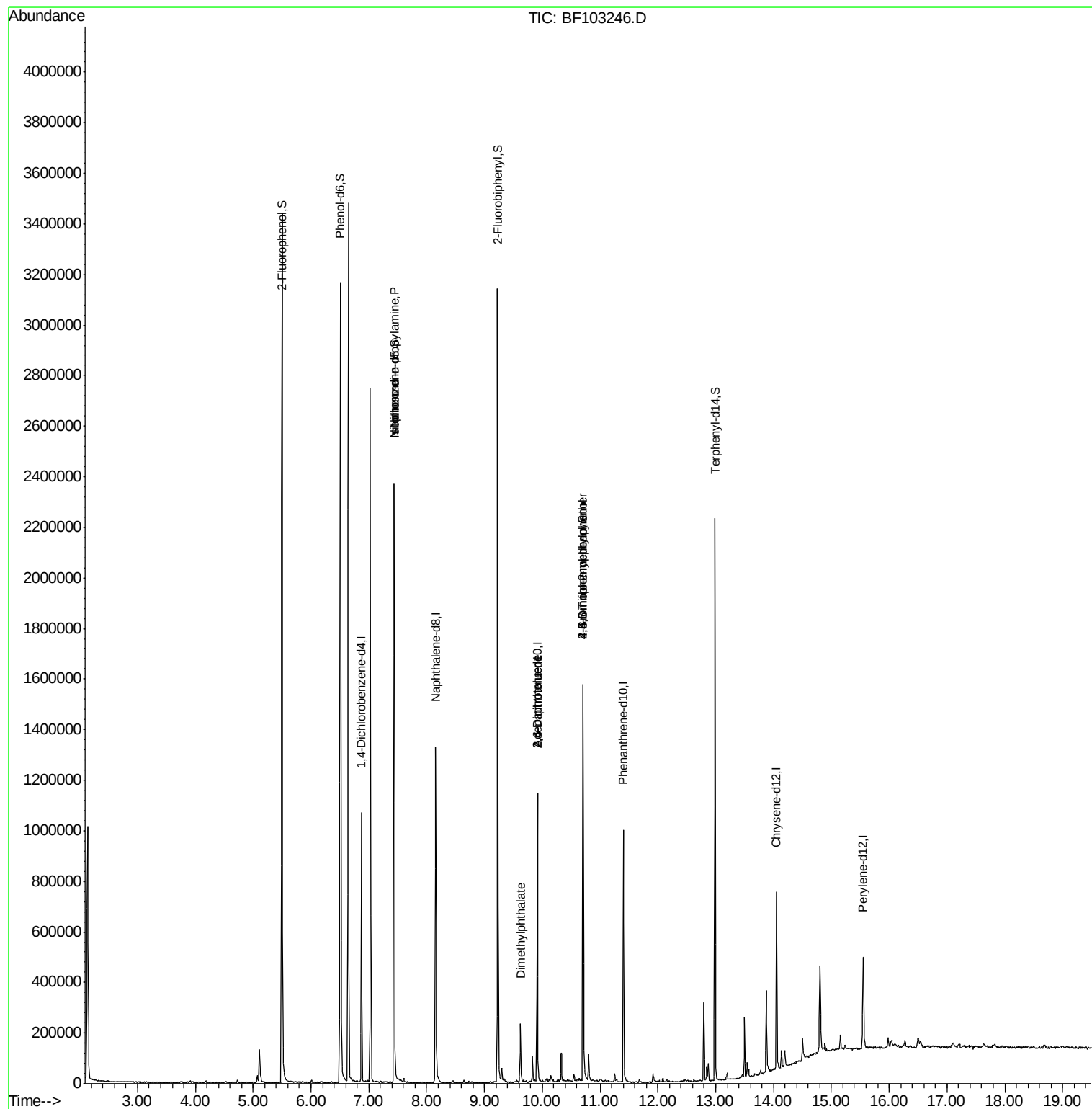
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 147012   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.16  | 136  | 599125   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 231228   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.40 | 188  | 352071   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.05 | 240  | 236851   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.56 | 264  | 165764   | 20.00     | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 1065448  | 109.61    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.51  | 99   | 1271318  | 106.89    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 760278   | 72.47     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.71 | 330  | 194390   | 99.32     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.23  | 172  | 1071420  | 78.33     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 779616   | 79.13     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.51  | 77   | 2086     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 99366    | 13.42     | ng    | 80       |
| 25) Isophorone                 | 7.44  | 82   | 760271   | 36.80     | ng    | 64       |
| 49) Dimethylphthalate          | 9.62  | 163  | 87192    | 4.70      | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165  | 29362    | 7.54      | ng    | 26       |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 29362    | 5.96      | ng    | 24       |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 370      | 5.10      | ng    | 1        |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248  | 12302    | 3.35      | ng    | 1        |

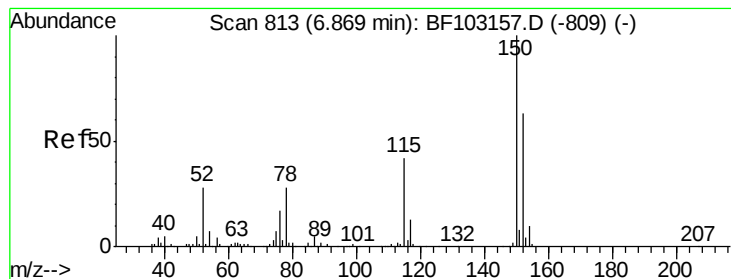
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 814

Delta R.T. 0.01 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

Instrument :

BNA\_F

ClientSampleId :

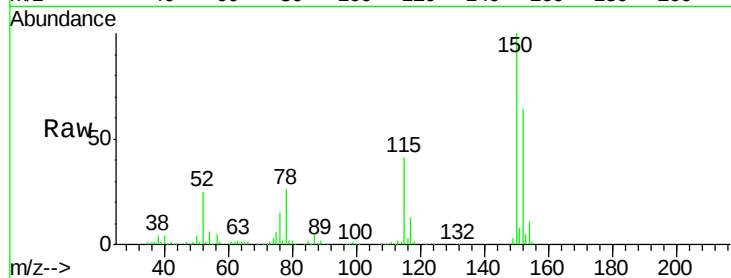
Tot Ion:152 Resp: 147012

Ion Ratio Lower Upper

152 100

150 155.6 124.6 186.8

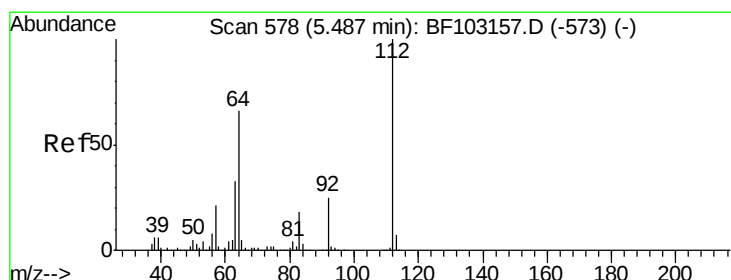
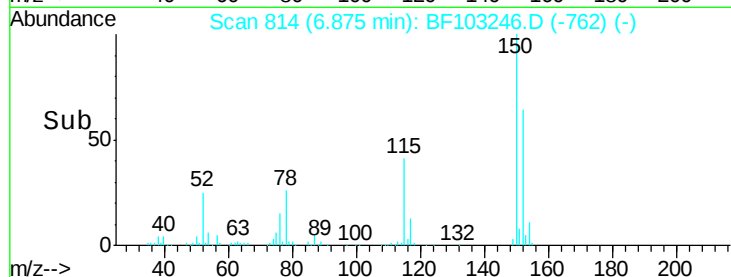
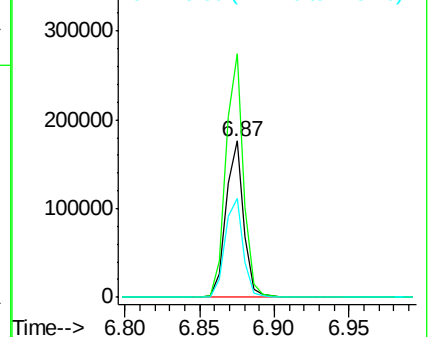
115 63.3 50.1 75.1



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: 109.61 ng

RT: 5.50 min Scan# 580

Delta R.T. 0.01 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

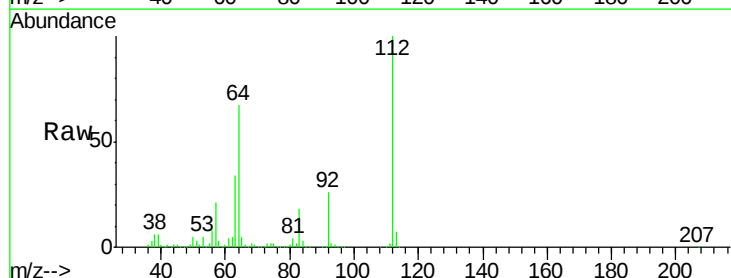
Tgt Ion:112 Resp: 1065448

Ion Ratio Lower Upper

112 100

64 66.6 47.9 71.9

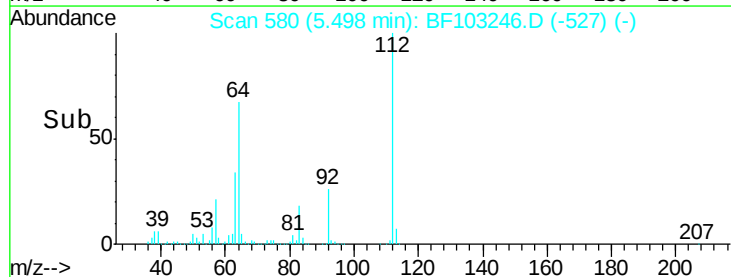
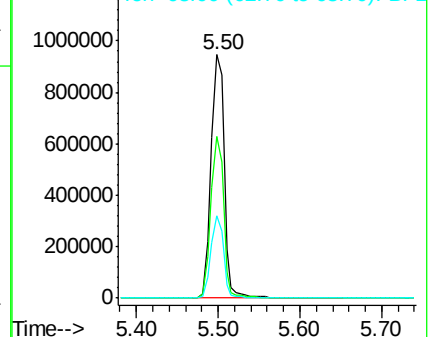
63 33.7 23.7 35.5

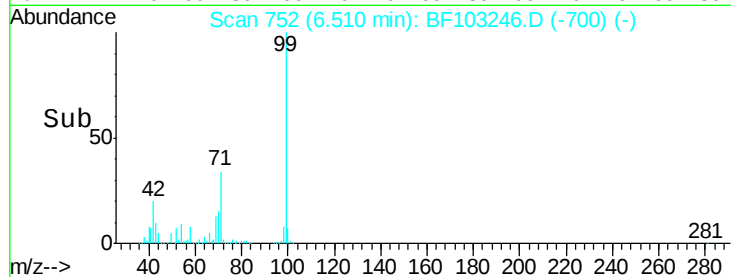
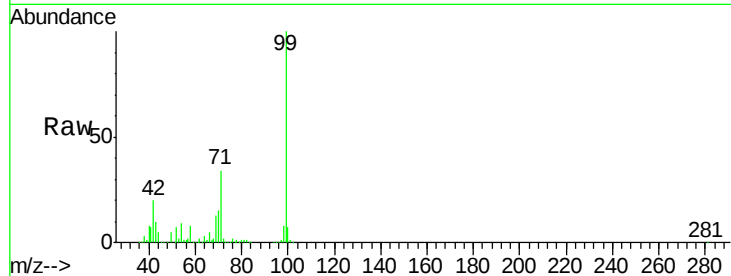
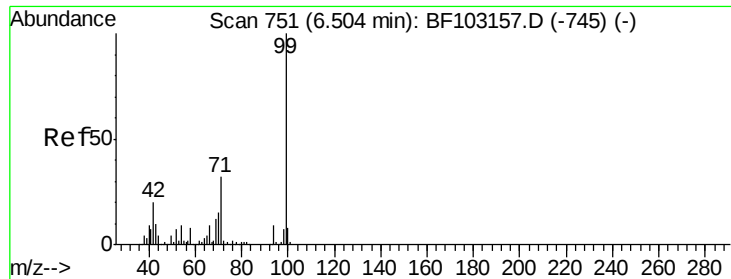


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 106.89 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

Instrument :

BNA\_F

ClientSampleId :

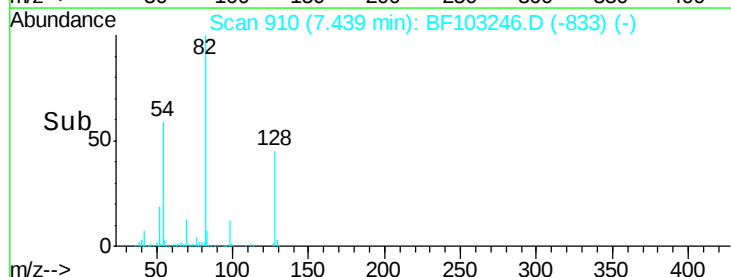
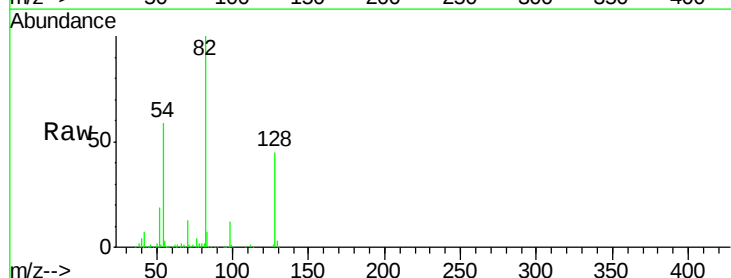
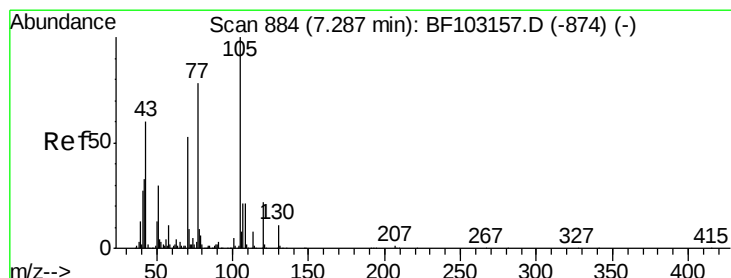
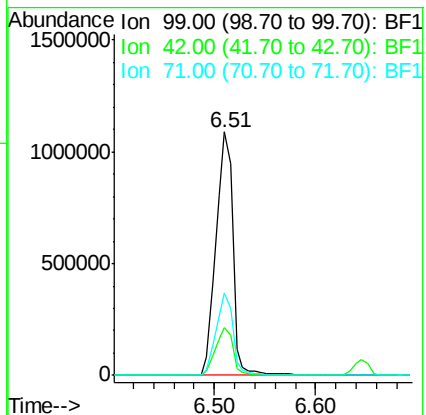
Tot Ion: 99 Resp: 1271318

Ion Ratio Lower Upper

99 100

42 19.9 14.5 21.7

71 33.7 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 13.42 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.15 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

Tgt Ion: 70 Resp: 99366

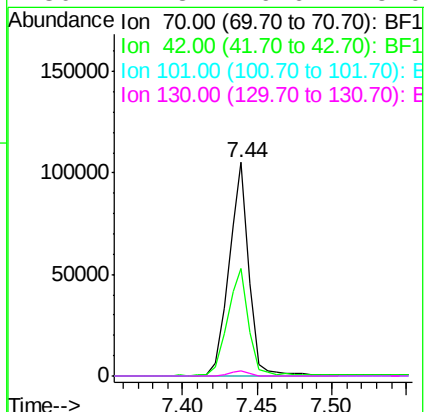
Ion Ratio Lower Upper

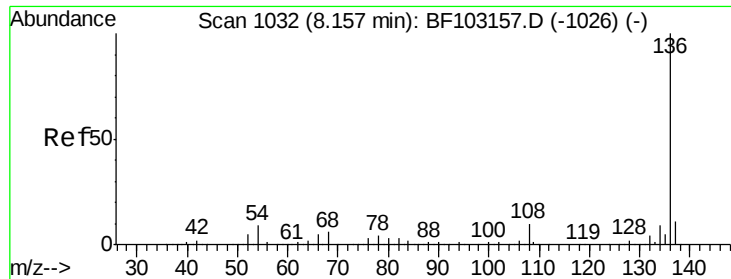
70 100

42 50.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

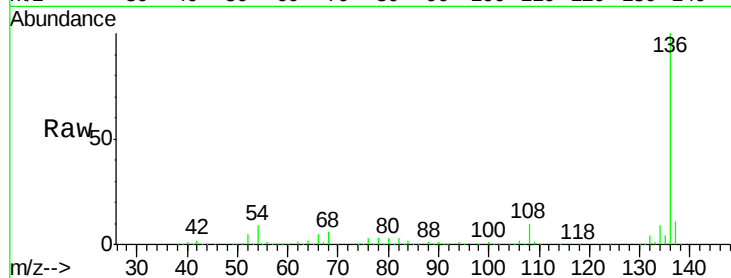




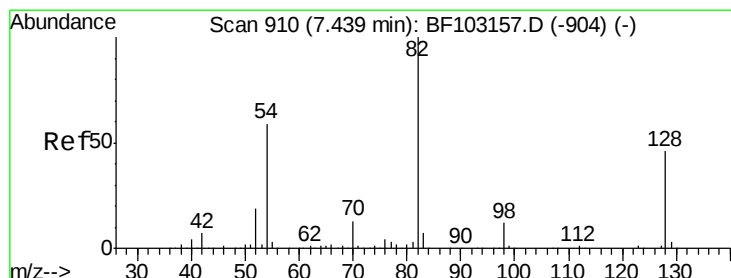
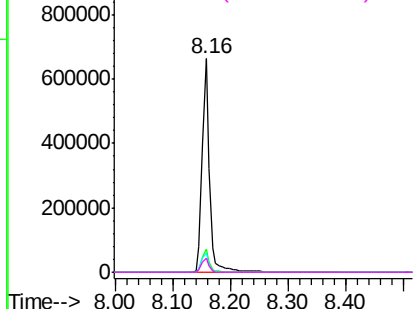
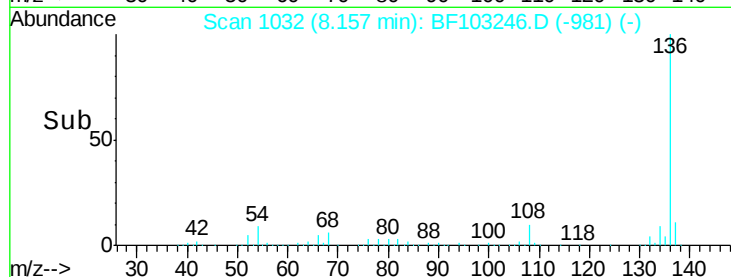
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 599125   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.9 13.3 |
| 54          | 8.8   | 6.6 9.8  |
| 68          | 6.4   | 5.0 7.4  |

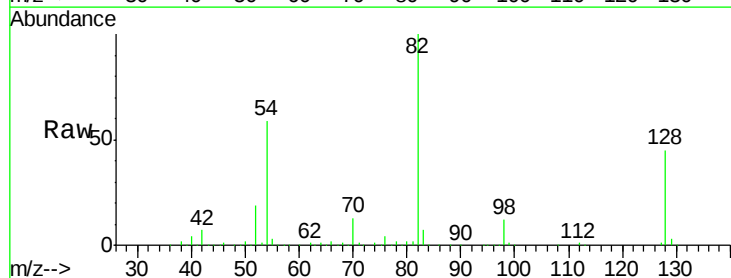


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

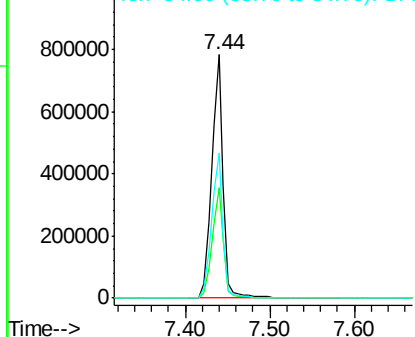
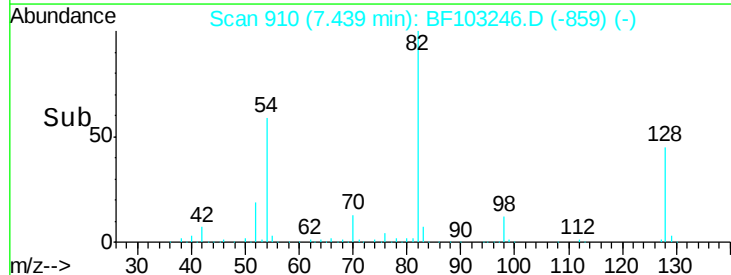


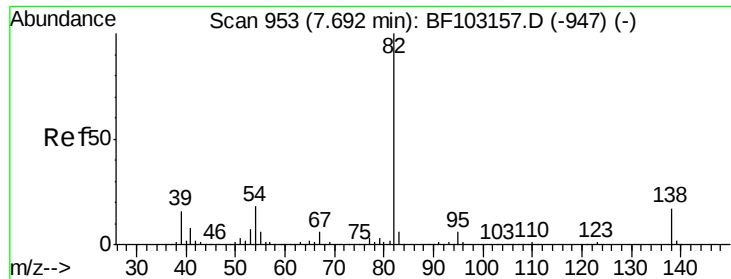
#23  
Nitrobenzene-d5  
Concen: 72.47 ng  
RT: 7.44 min Scan# 910  
Delta R.T. 0.00 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 760278    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.2  | 36.1 54.1 |
| 54          | 59.4  | 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

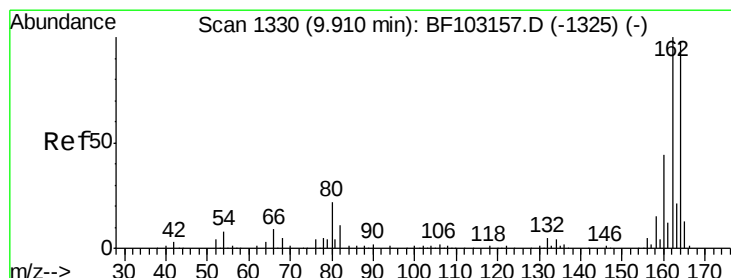
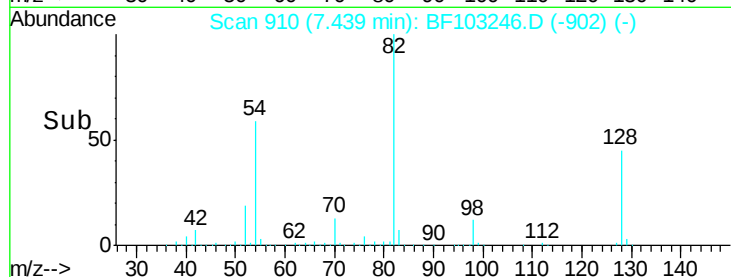
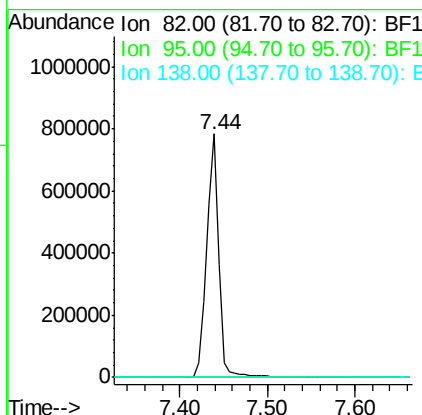
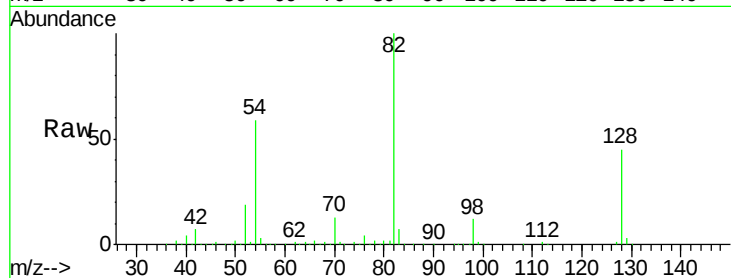




#25  
Isophorone  
Concen: 36.80 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.25 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

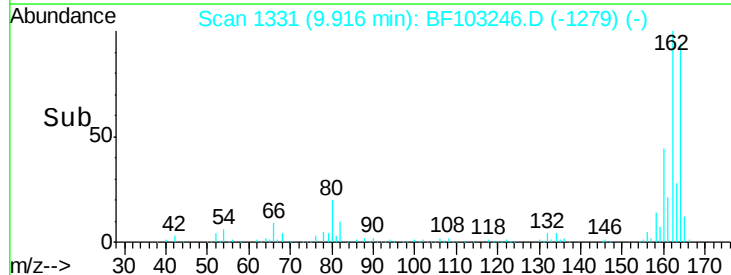
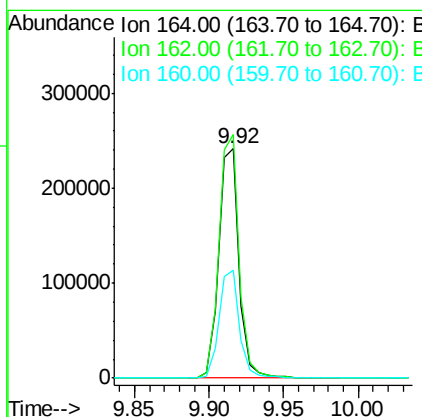
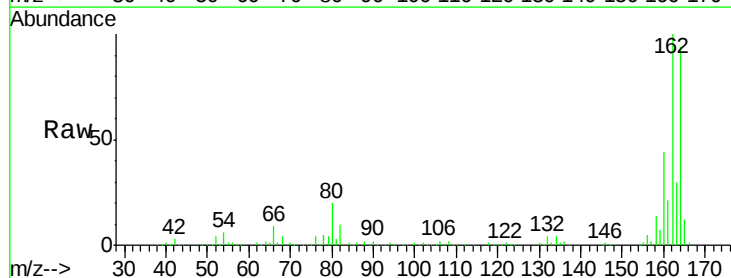
Instrument :  
BNA\_F  
ClientSampleId :

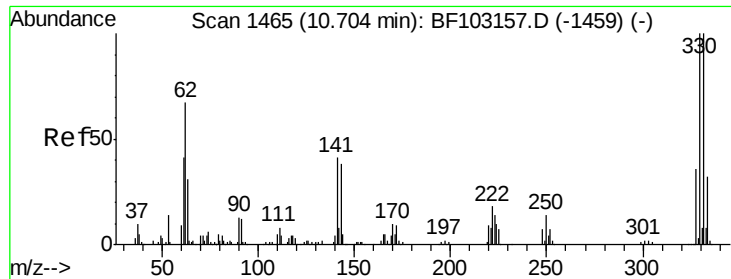
Tot Ion: 82 Resp: 760271  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.01 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Tgt Ion:164 Resp: 231228  
Ion Ratio Lower Upper  
164 100  
162 106.2 86.1 129.1  
160 47.0 38.3 57.5

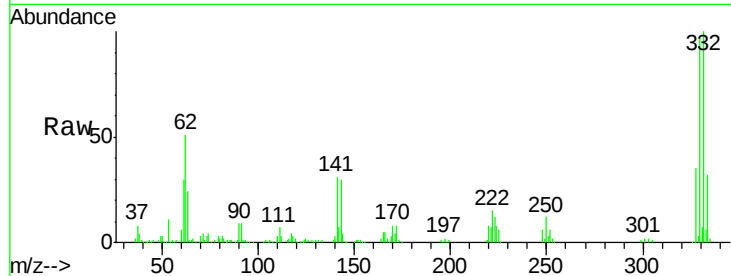




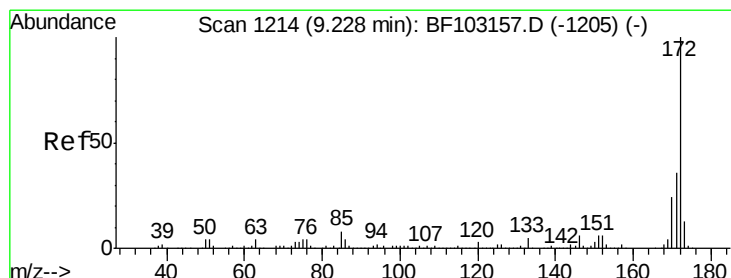
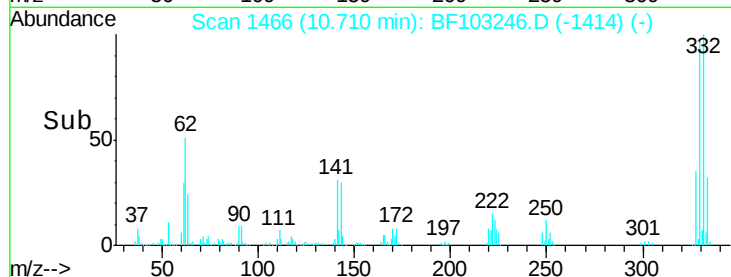
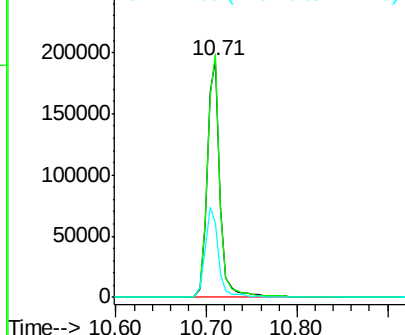
#41  
 2,4,6-Tribromophenol  
 Concen: 99.32 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. 0.01 min  
 Lab File: BF103246.D  
 Acq: 27 Feb 2018 4:07

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 194390  
 Ion Ratio Lower Upper  
 330 100  
 332 100.1 77.0 115.6  
 141 39.6 29.9 44.9

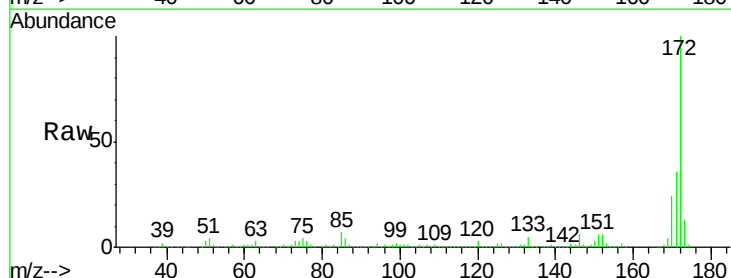


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

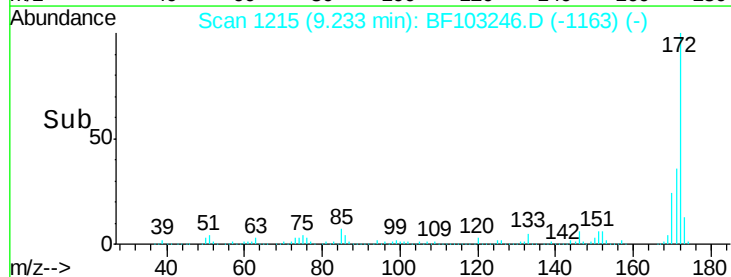
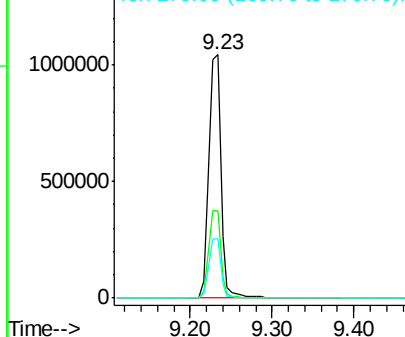


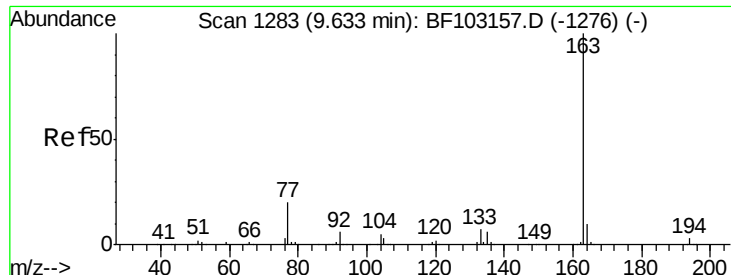
#44  
 2-Fluorobiphenyl  
 Concen: 78.33 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. 0.01 min  
 Lab File: BF103246.D  
 Acq: 27 Feb 2018 4:07

Tgt Ion:172 Resp: 1071420  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.7 44.5  
 170 24.4 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

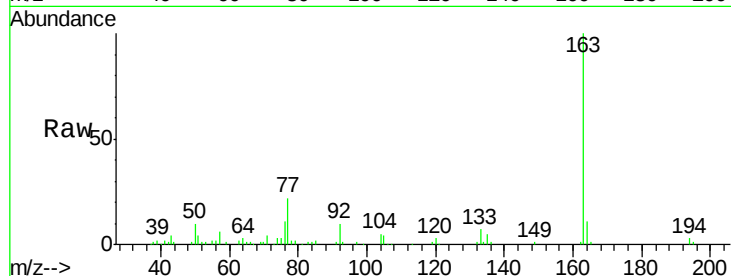




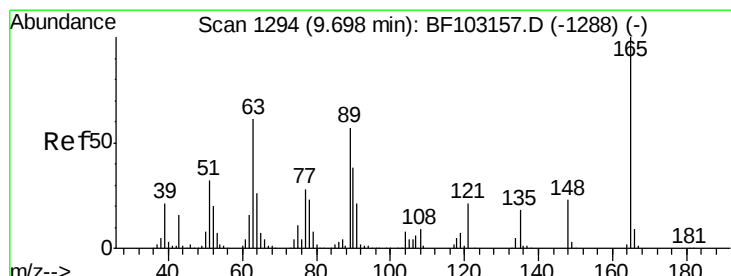
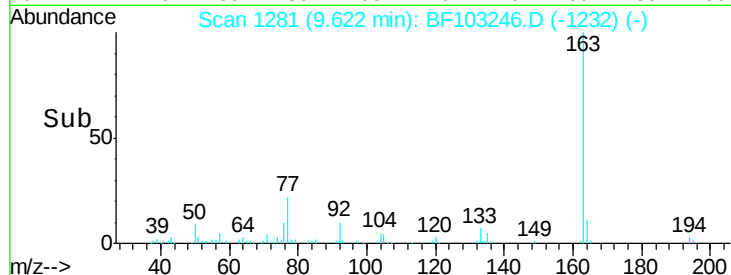
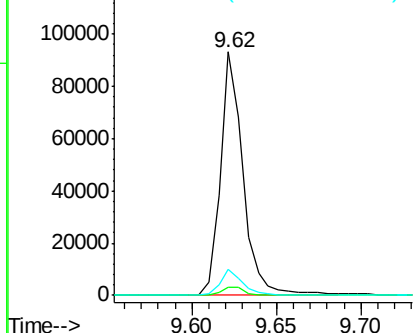
#49  
Dimethylphthalate  
Concen: 4.70 ng  
RT: 9.62 min Scan# 1281  
Delta R.T. -0.01 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 2.7   | 4.1   |
| 164     | 10.9  | 8.2   | 12.2  |

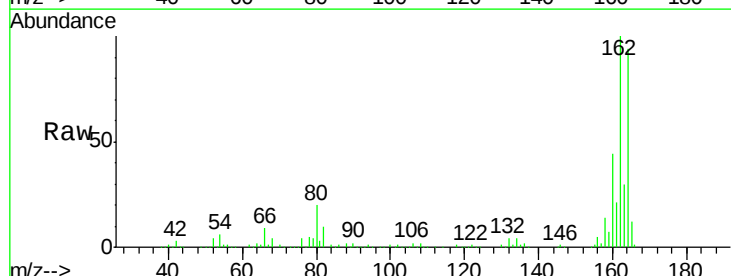


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

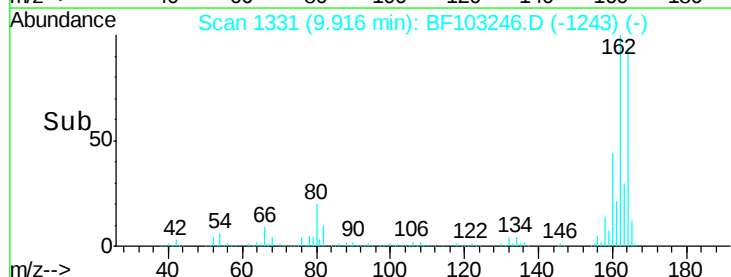
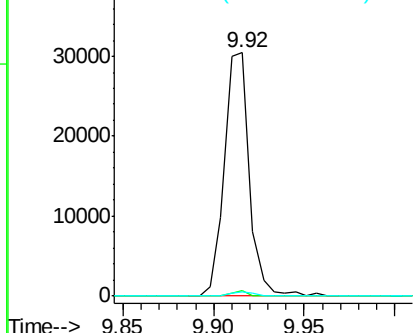


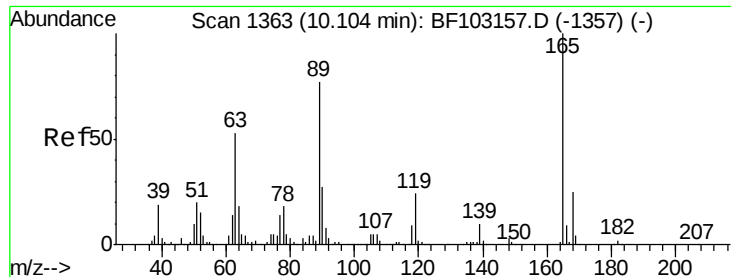
#50  
2,6-Dinitrotoluene  
Concen: 7.54 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. 0.22 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 44.7  | 67.1# |
| 89      | 1.5   | 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

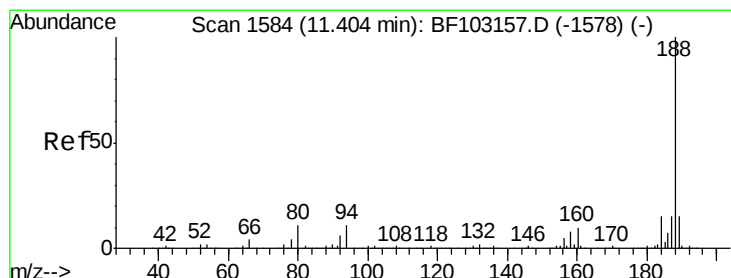
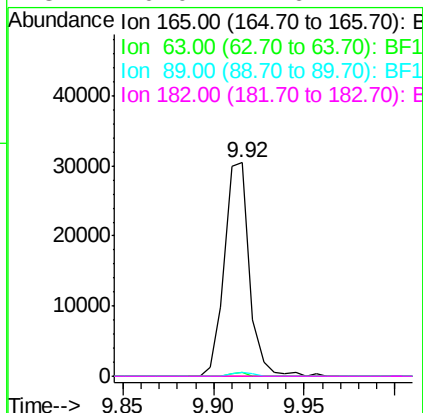
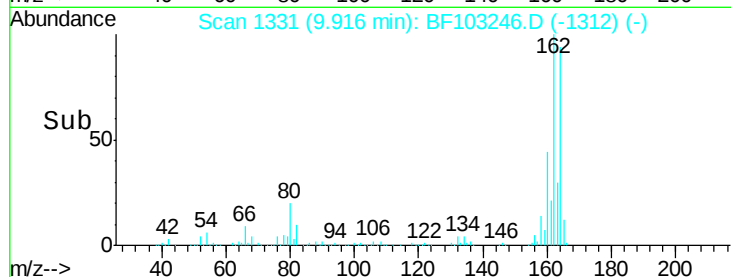
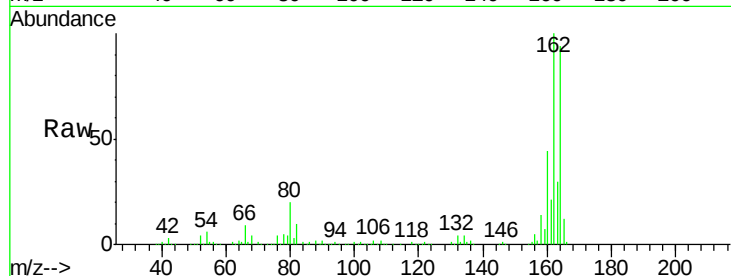




#56  
 2,4-Dinitrotoluene  
 Concen: 5.96 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF103246.D  
 Acq: 27 Feb 2018 4:07

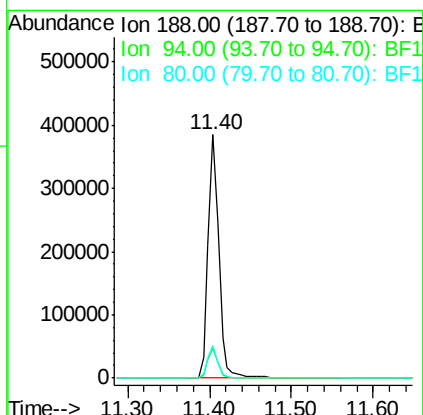
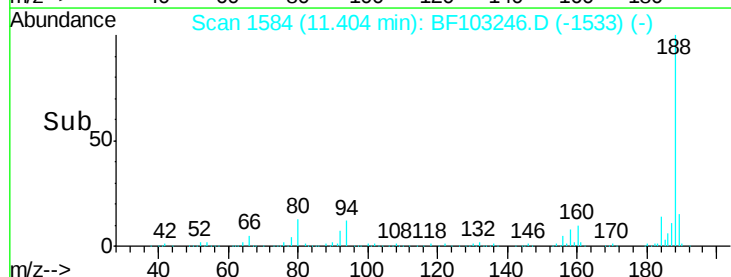
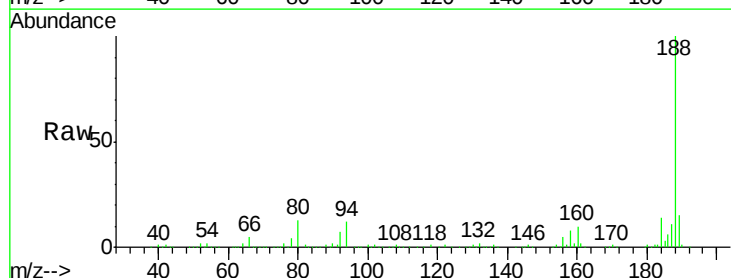
Instrument :  
 BNA\_F  
 ClientSampleId :

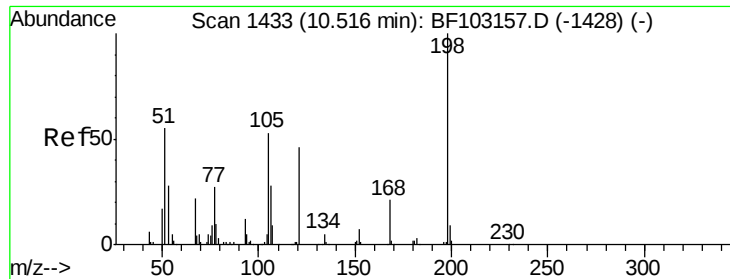
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 36.4  | 54.6# |
| 89      | 1.5   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. 0.00 min  
 Lab File: BF103246.D  
 Acq: 27 Feb 2018 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.1  | 8.5   | 12.7  |
| 80      | 13.1  | 9.2   | 13.8  |

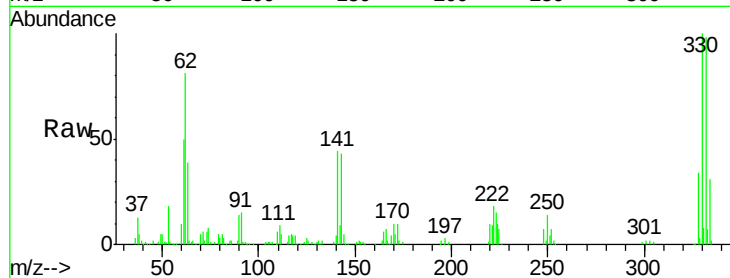




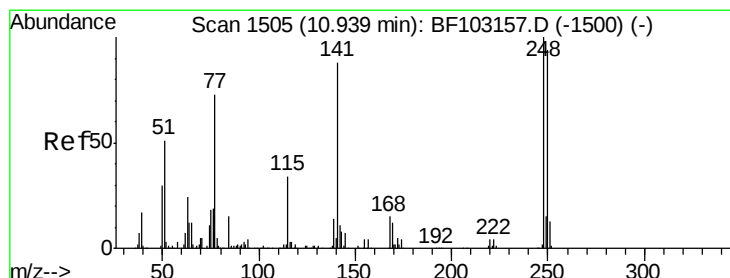
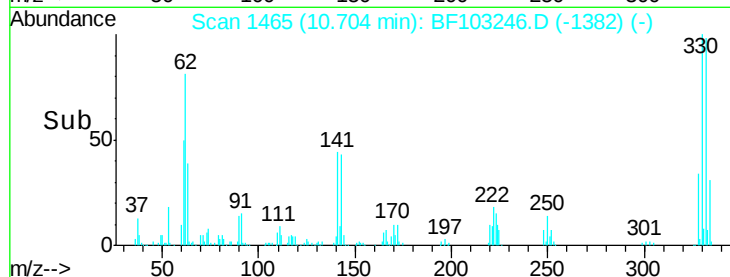
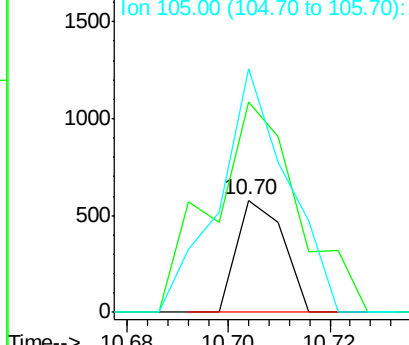
#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.10 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. 0.19 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 370  
Ion Ratio Lower Upper  
198 100  
51 187.6 37.7 77.7#  
105 216.7 36.3 76.3#

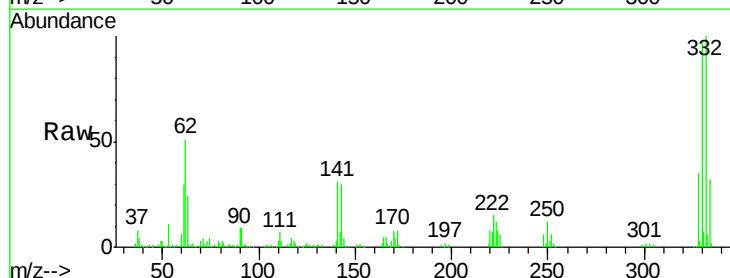


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

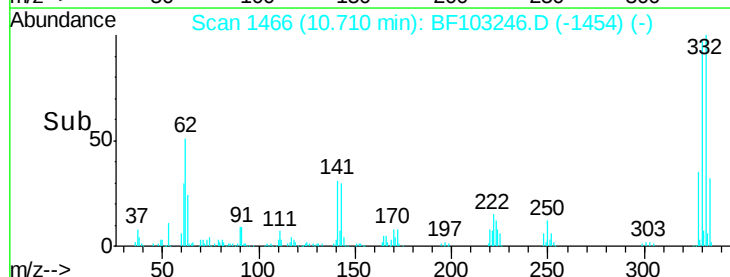
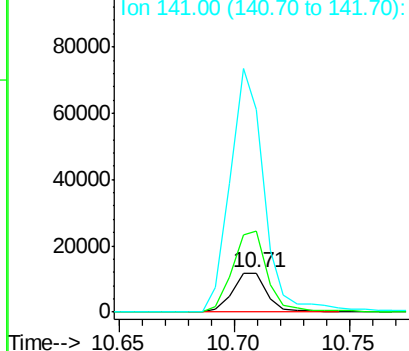


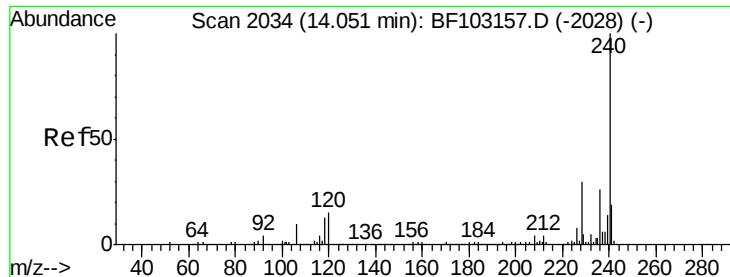
#66  
4-Bromophenyl-phenylether  
Concen: 3.35 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.23 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Tgt Ion:248 Resp: 12302  
Ion Ratio Lower Upper  
248 100  
250 204.7 76.9 115.3#  
141 515.4 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: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

Instrument :

BNA\_F

ClientSampleId :

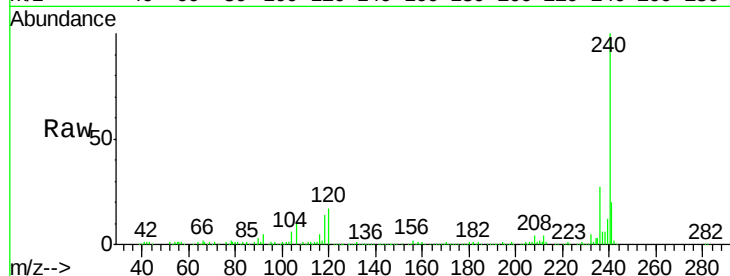
Tot Ion:240 Resp: 236851

Ion Ratio Lower Upper

240 100

120 17.1 9.5 14.3#

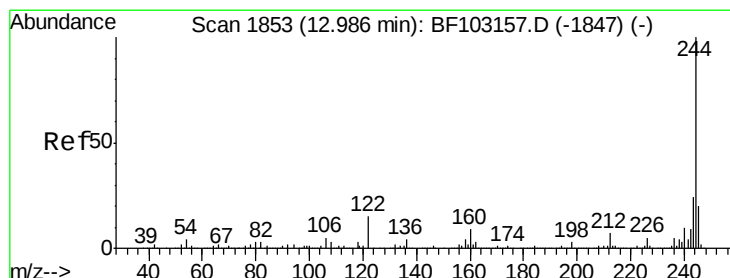
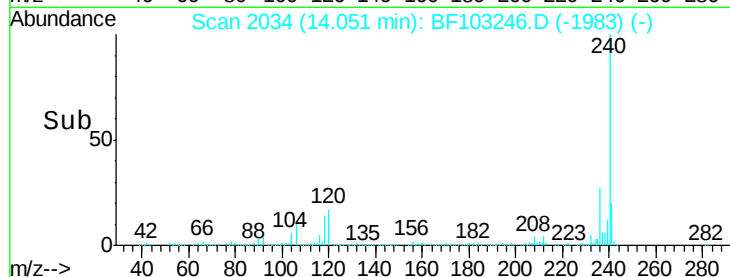
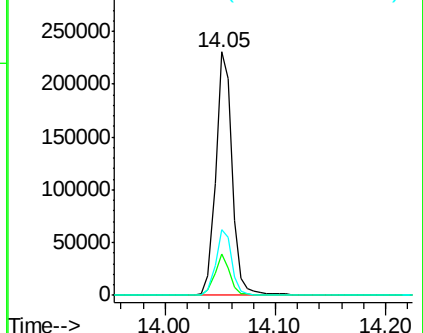
236 26.9 20.7 31.1



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: 79.13 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.01 min

Lab File: BF103246.D

Acq: 27 Feb 2018 4:07

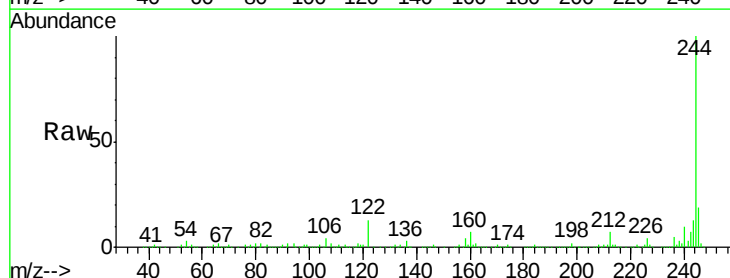
Tgt Ion:244 Resp: 779616

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

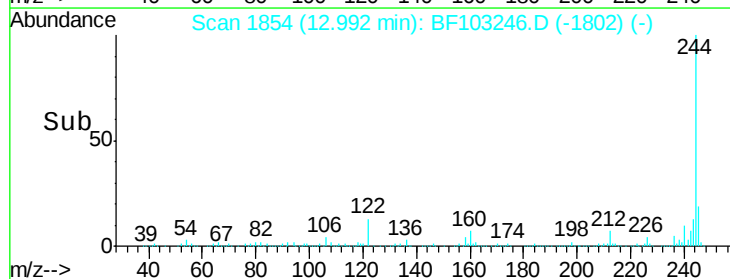
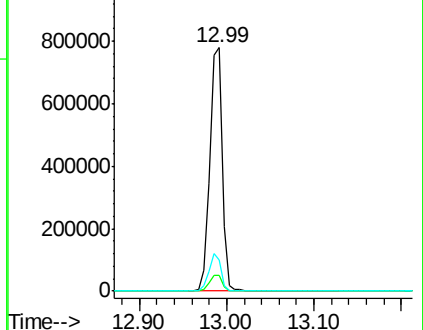
122 13.0 11.0 16.4

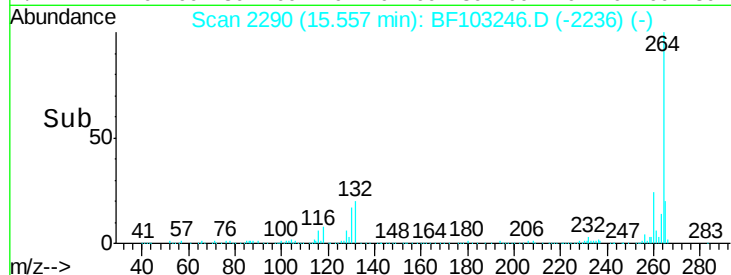
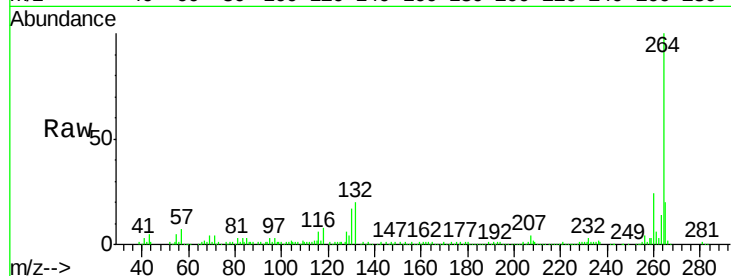
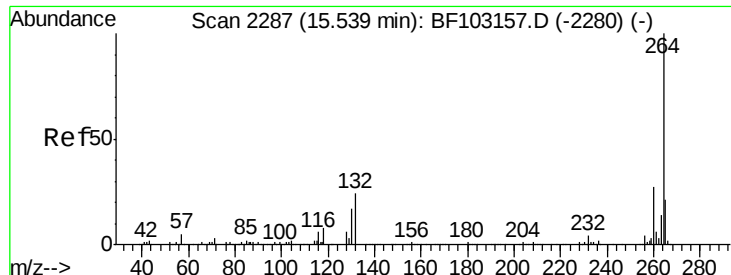


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. 0.02 min  
Lab File: BF103246.D  
Acq: 27 Feb 2018 4:07

Instrument :  
BNA\_F  
ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 165764 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.2  | 28.8   |
| 265       | 20.2  | 17.5  | 26.3   |

