

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102218\  
 Data File : BF110043.D  
 Acq On : 22 Oct 2018 12:25  
 Operator : JU/SJ  
 Sample : PB114001BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 23 02:07:39 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 16 14:58:24 2018  
 Response via : Initial Calibration

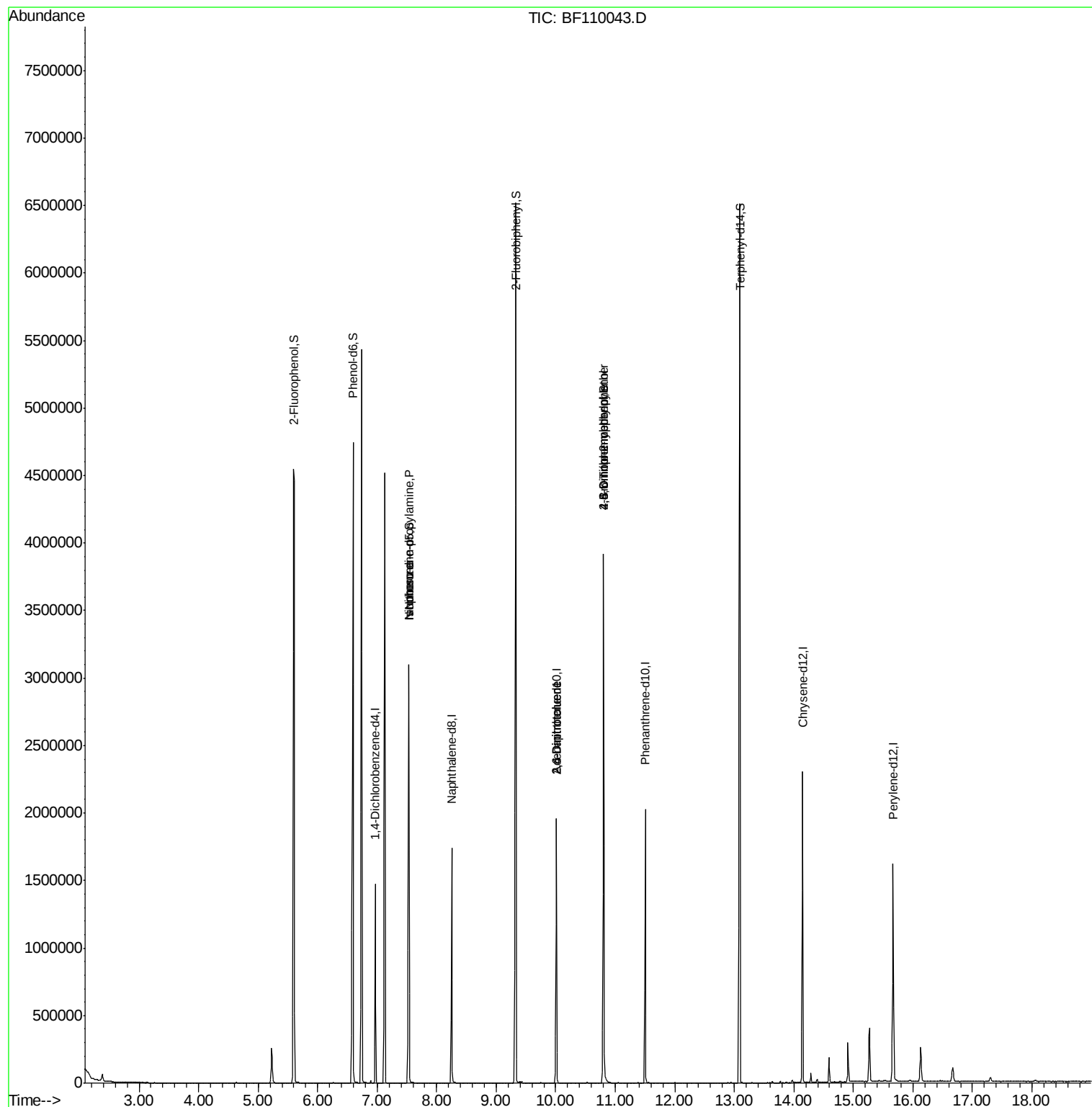
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.97  | 152  | 206031   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.25  | 136  | 797168   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 10.01 | 164  | 379076   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.50 | 188  | 745479   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.14 | 240  | 698665   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.67 | 264  | 594223   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 1498949  | 115.32 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.59  | 99   | 1897924  | 117.59 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.53  | 82   | 1176898  | 99.45  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.80 | 330  | 477120   | 145.38 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.33  | 172  | 2087655  | 87.88  | ng    | -0.01    |
| 79) Terphenyl-d14              | 13.09 | 244  | 2369231  | 71.21  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 155953   | 15.049 | ng    | # 79     |
| 25) Isophorone                 | 7.53  | 82   | 1176887  | 50.614 | ng    | # 67     |
| 51) 2,6-Dinitrotoluene         | 10.01 | 165  | 48153    | 9.445  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 10.01 | 165  | 48153    | 11.346 | ng    | # 19     |
| 65) 4,6-Dinitro-2-methylphenol | 10.80 | 198  | 1152     | 8.261  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.80 | 248  | 31453    | 3.893  | ng    | # 1      |

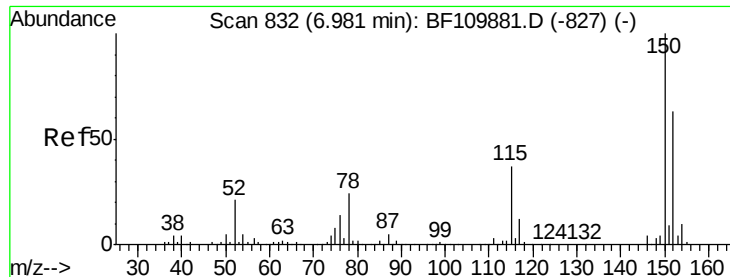
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102218\  
Data File : BF110043.D  
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Operator : JU/SJ  
Sample : PB114001BL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 23 02:07:39 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 16 14:58:24 2018  
Response via : Initial Calibration



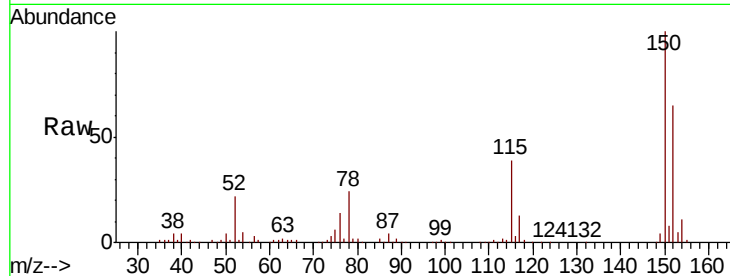


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 830  
 Delta R.T. -0.01 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.1 | 122.7 | 184.1 |
| 115     | 59.9  | 49.1  | 73.7  |

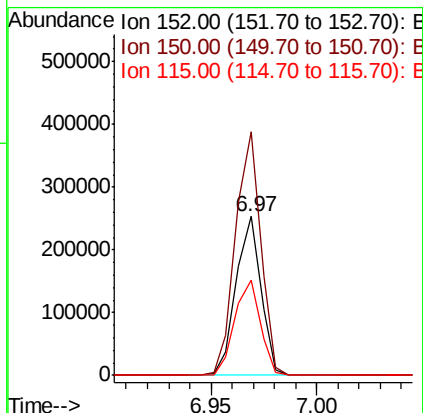
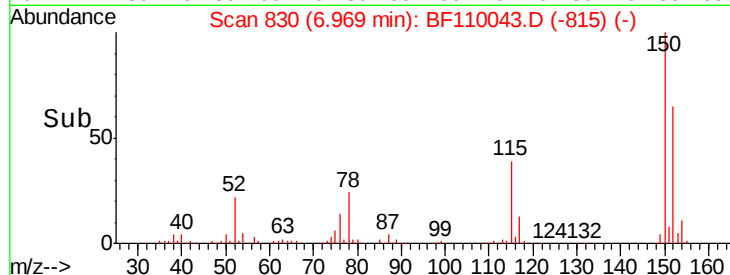


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

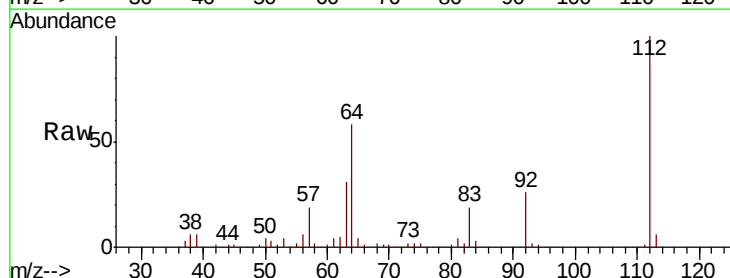
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 115.324 ng  
 RT: 5.60 min Scan# 598  
 Delta R.T. 0.01 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 44.1  | 66.1  |
| 63      | 31.1  | 23.7  | 35.5  |

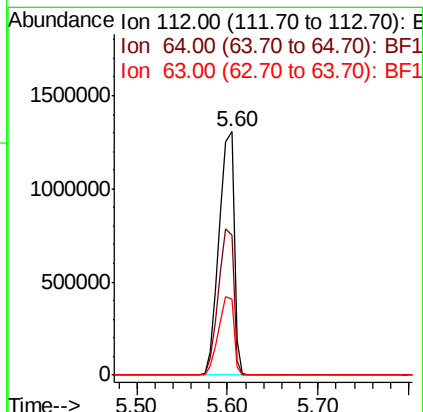
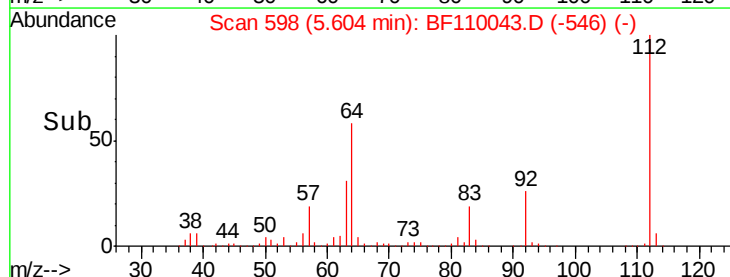


Abundance

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: 117.593 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

Instrument :

BNA\_F

ClientSampleId :

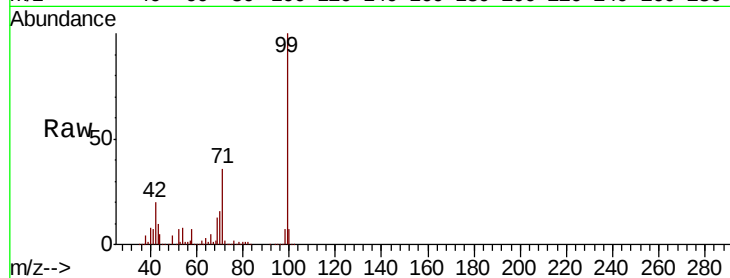
Tot Ion: 99 Resp: 1897924

Ion Ratio Lower Upper

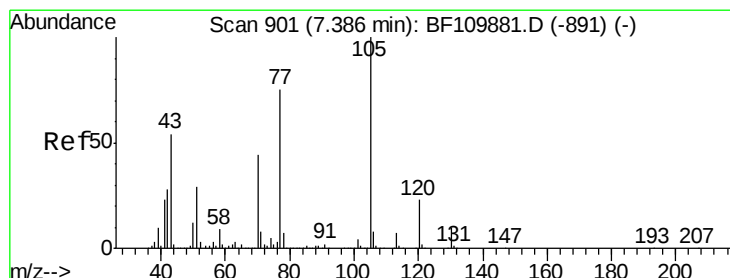
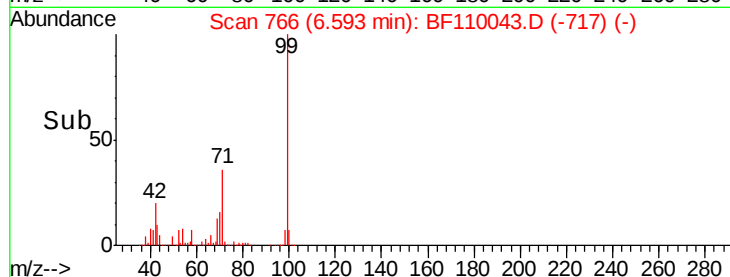
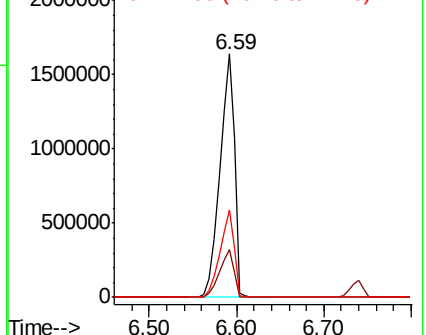
99 100

42 19.8 15.8 23.6

71 35.8 28.0 42.0



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: 15.049 ng

RT: 7.53 min Scan# 926

Delta R.T. 0.14 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

Tgt Ion: 70 Resp: 155953

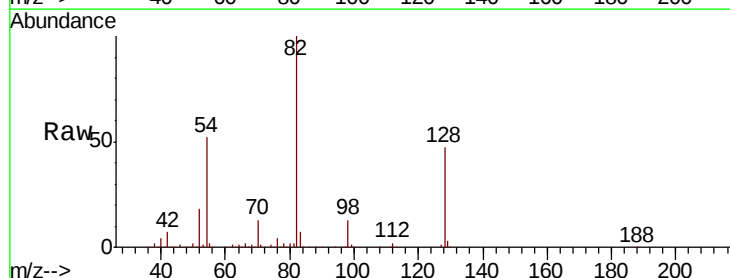
Ion Ratio Lower Upper

70 100

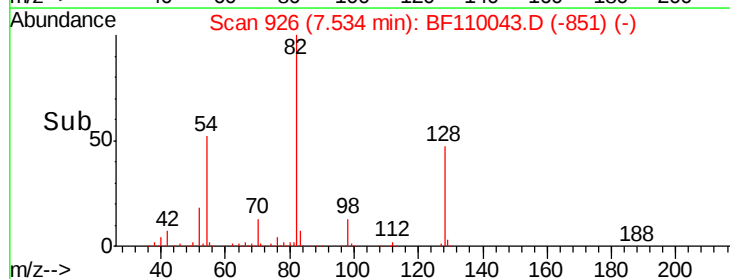
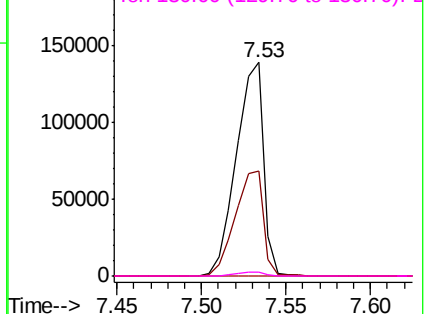
42 49.0 47.4 71.2

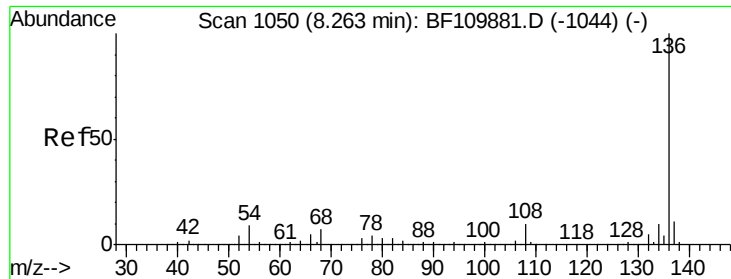
101 0.0 7.3 10.9#

130 2.1 16.2 24.2#



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): E  
Ion 130.00 (129.70 to 130.70): E

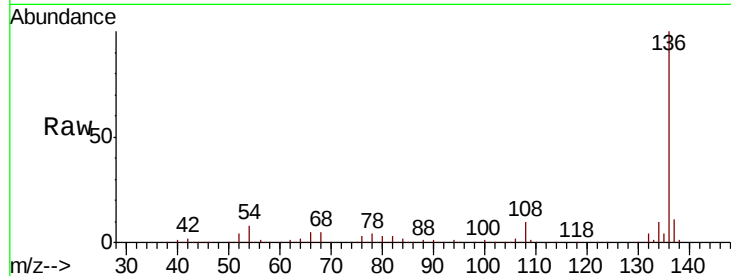




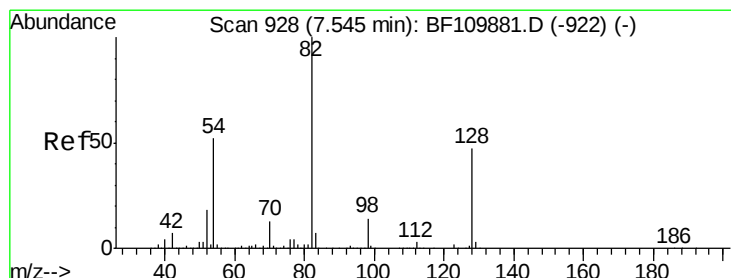
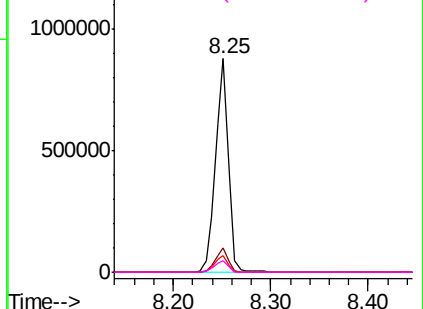
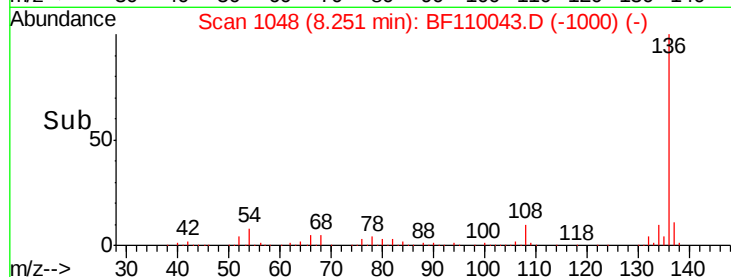
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. -0.02 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

Instrument :  
BNA\_F  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 797168   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.2  | 8.8 13.2 |
| 54          | 8.0   | 5.4 8.2  |
| 68          | 5.2   | 4.2 6.2  |

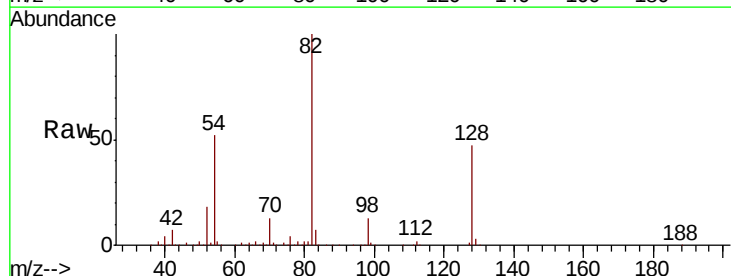


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

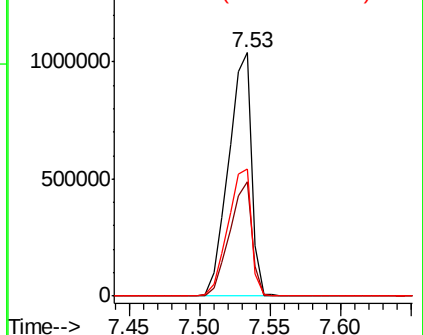
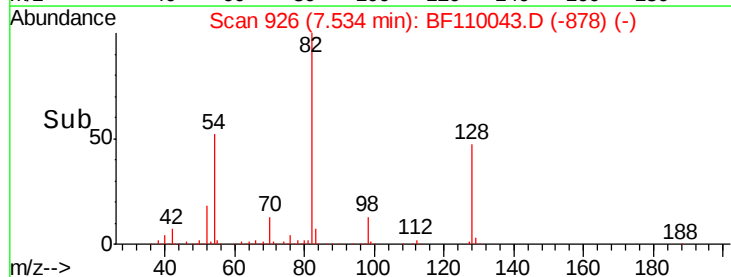


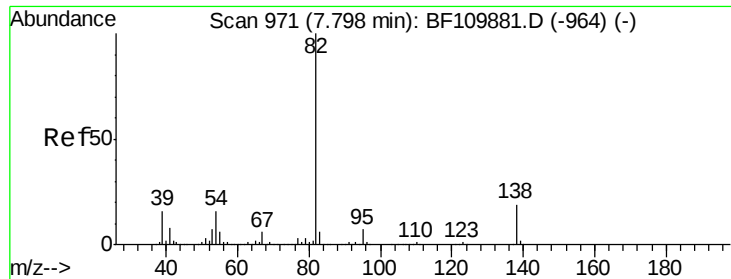
#23  
Nitrobenzene-d5  
Concen: 99.453 ng  
RT: 7.53 min Scan# 926  
Delta R.T. -0.02 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 1176898   |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.0  | 34.2 51.2 |
| 54          | 52.3  | 38.6 58.0 |



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: 50.614 ng

RT: 7.53 min Scan# 926

Delta R.T. -0.27 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

Instrument :

BNA\_F

ClientSampled :

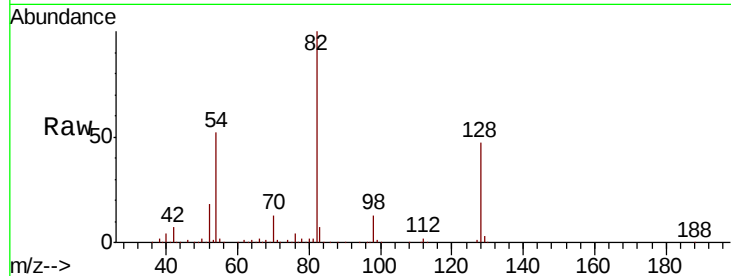
Tot Ion: 82 Resp: 1176887

Ion Ratio Lower Upper

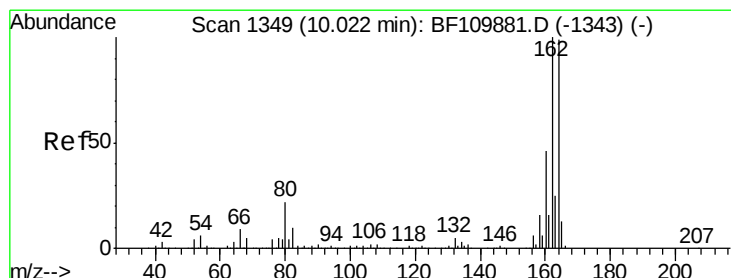
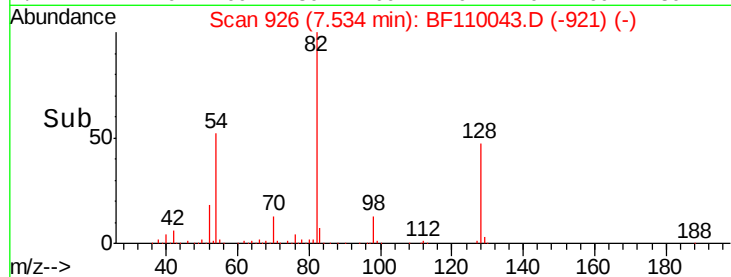
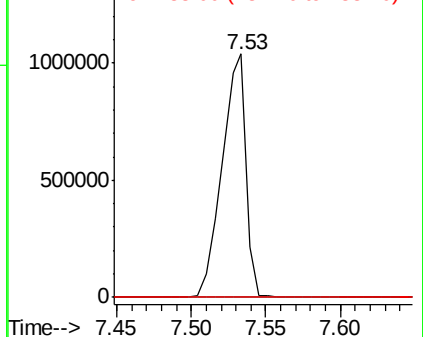
82 100

95 0.0 5.7 8.5#

138 0.0 13.2 19.8#



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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.02 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

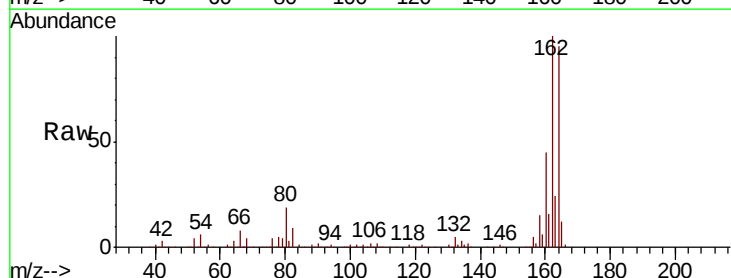
Tgt Ion:164 Resp: 379076

Ion Ratio Lower Upper

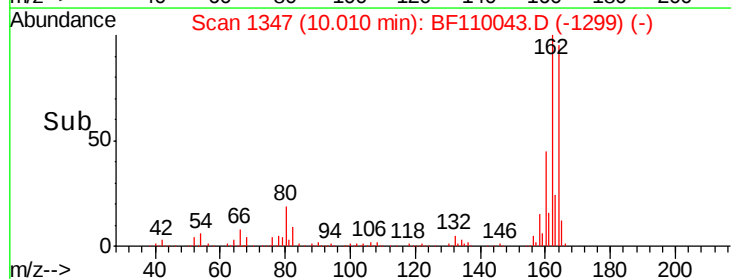
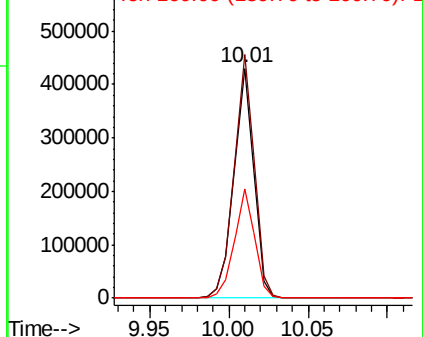
164 100

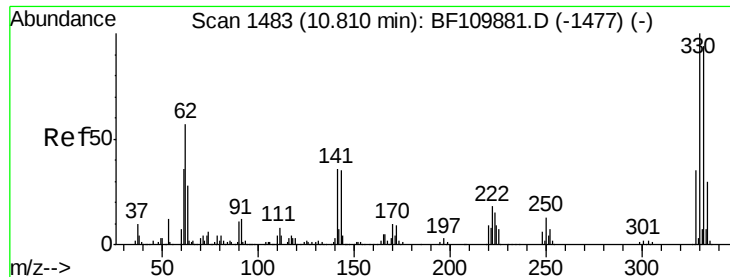
162 105.8 83.0 124.6

160 47.3 37.0 55.6



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

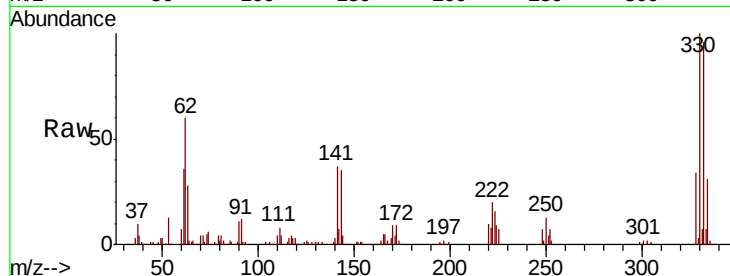




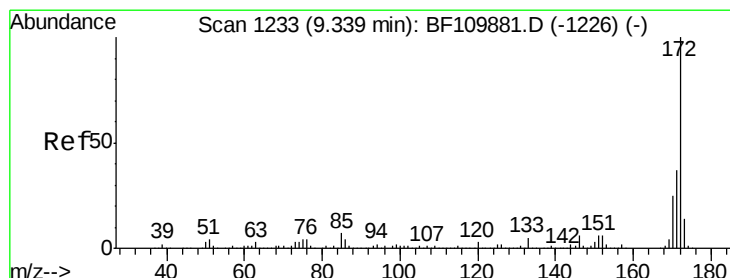
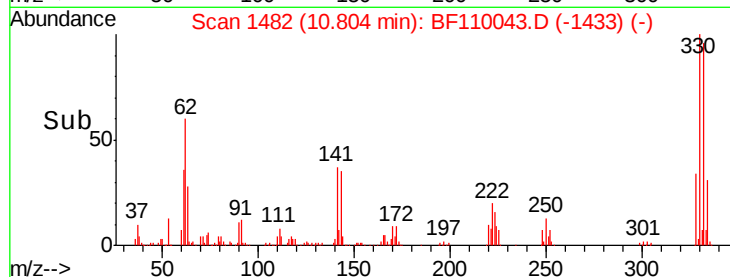
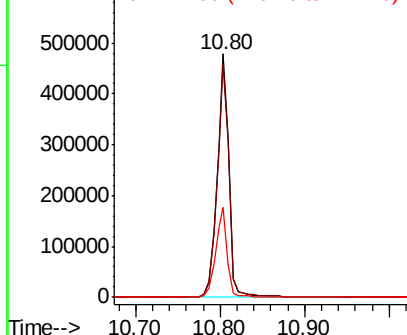
#42  
 2,4,6-Tribromophenol  
 Concen: 145.377 ng  
 RT: 10.80 min Scan# 1482  
 Delta R.T. -0.01 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 477120  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 77.1 115.7  
 141 36.6 27.0 40.4

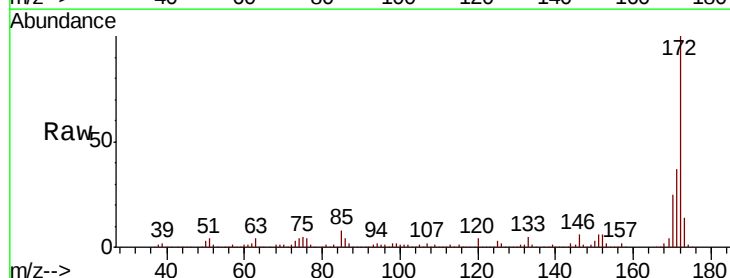


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

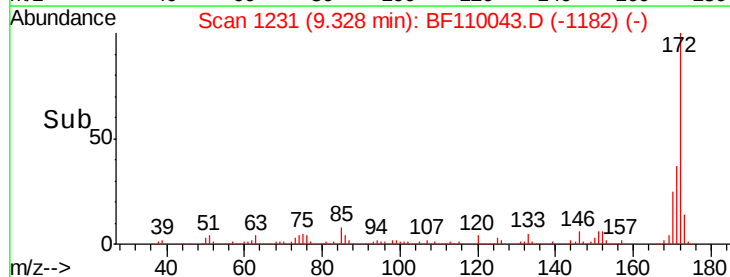
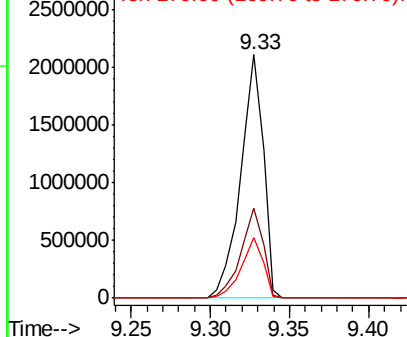


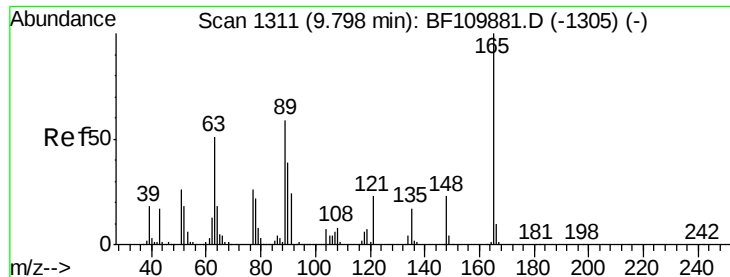
#45  
 2-Fluorobiphenyl  
 Concen: 87.876 ng  
 RT: 9.33 min Scan# 1231  
 Delta R.T. -0.01 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

Tgt Ion:172 Resp: 2087655  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 28.6 43.0  
 170 24.7 19.7 29.5



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

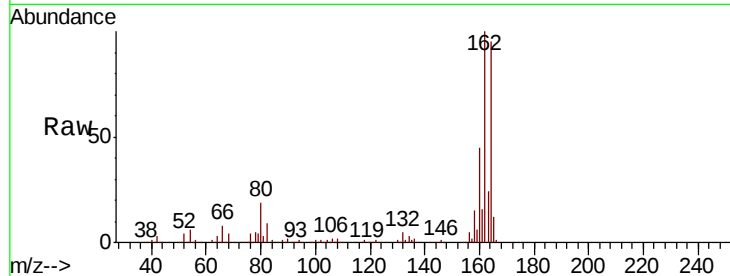




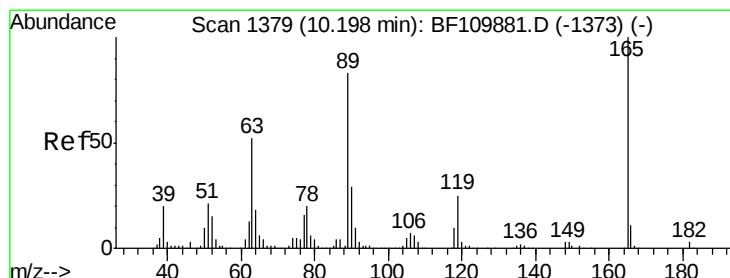
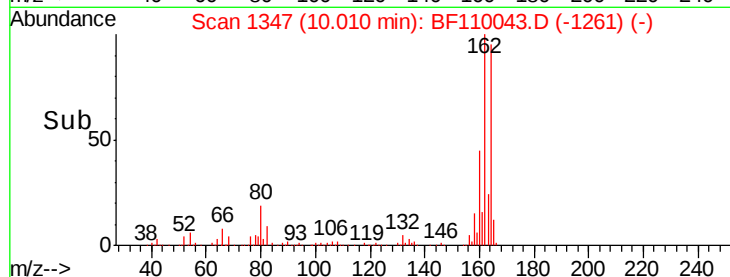
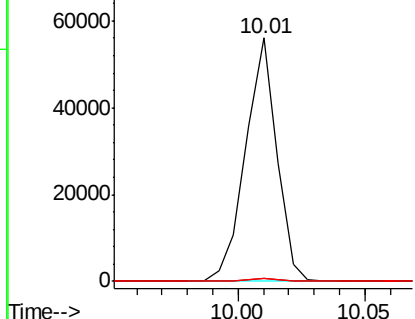
#51  
2,6-Dinitrotoluene  
Concen: 9.445 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. 0.21 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 48.9  | 73.3# |
| 89      | 1.3   | 46.6  | 69.8# |



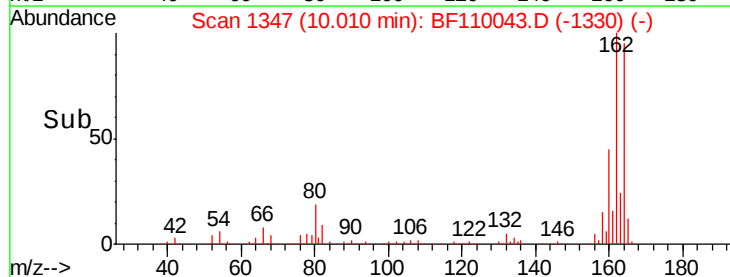
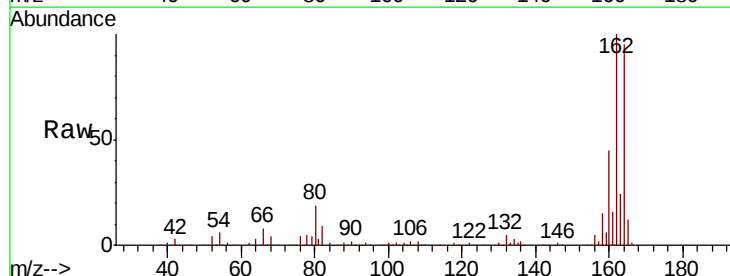
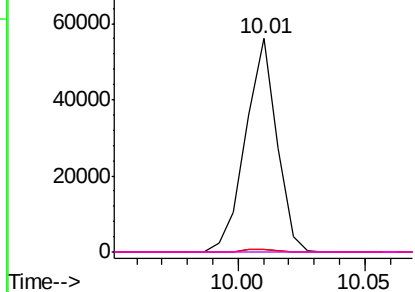
Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

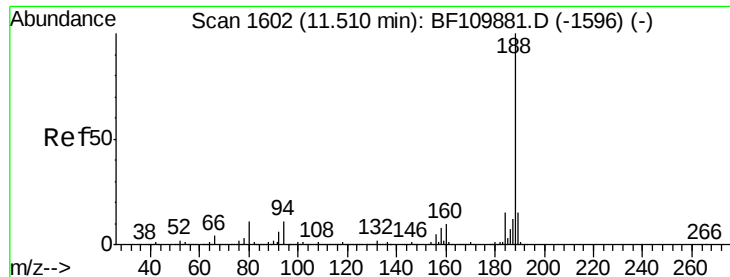


#57  
2,4-Dinitrotoluene  
Concen: 11.346 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.20 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 44.8  | 67.2# |
| 89      | 1.3   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |

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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

Instrument :

BNA\_F

ClientSampled :

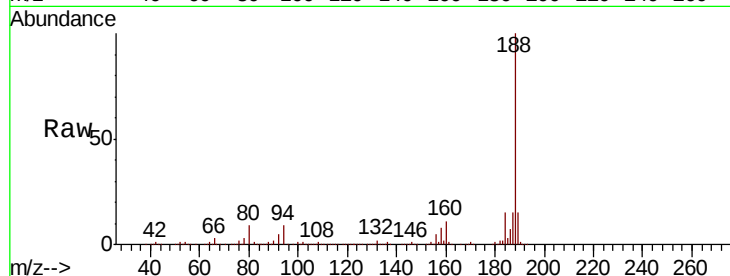
Tot Ion:188 Resp: 745479

Ion Ratio Lower Upper

188 100

94 8.7 7.2 10.8

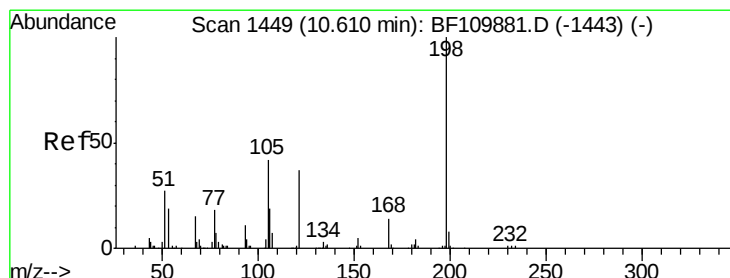
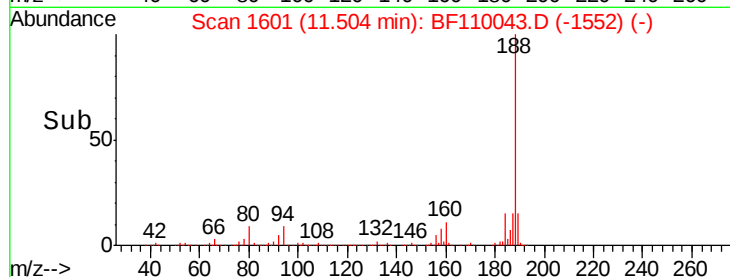
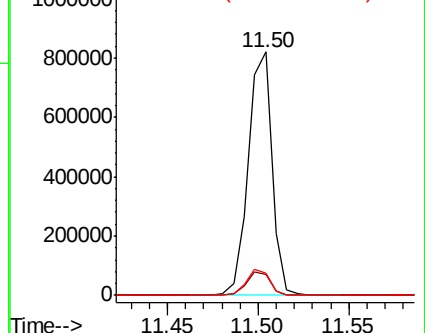
80 9.1 7.9 11.9



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



#65

4,6-Dinitro-2-methylphenol

Concen: 8.261 ng

RT: 10.80 min Scan# 1482

Delta R.T. 0.18 min

Lab File: BF110043.D

Acq: 22 Oct 2018 12:25

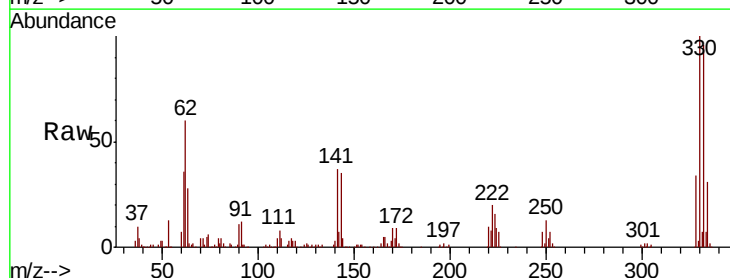
Tgt Ion:198 Resp: 1152

Ion Ratio Lower Upper

198 100

51 182.5 22.8 62.8#

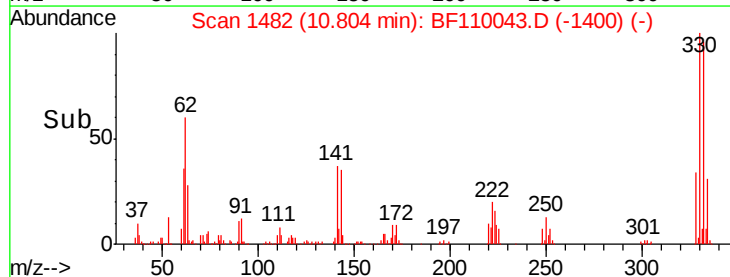
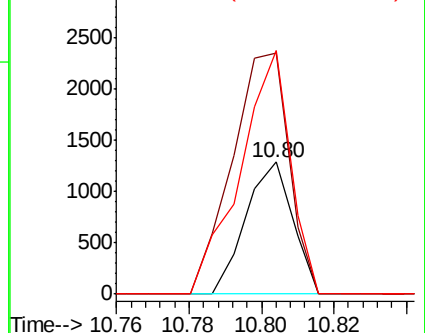
105 184.2 23.6 63.6#

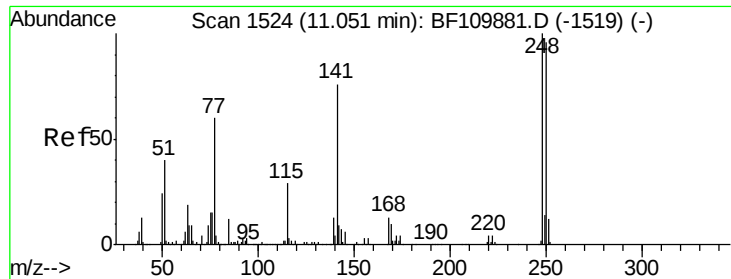


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

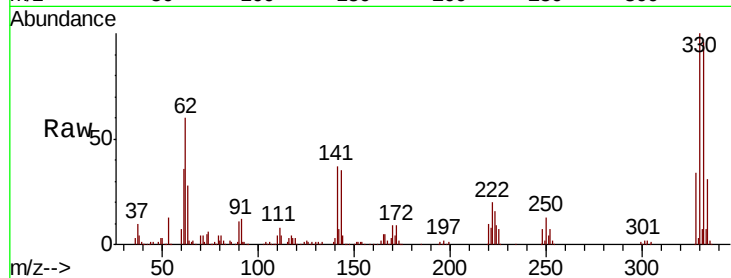




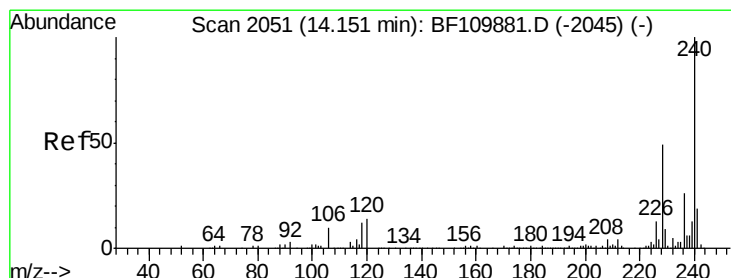
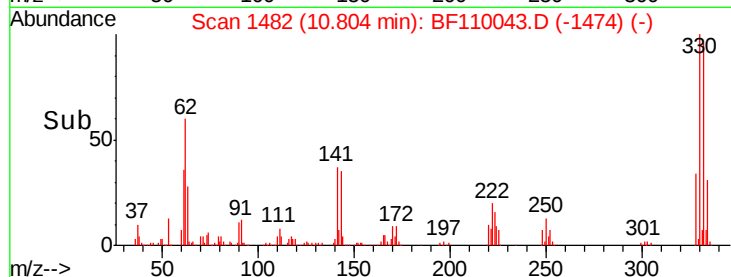
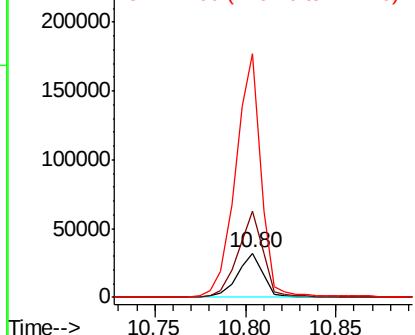
#67  
4-Bromophenyl-phenylether  
Concen: 3.893 ng  
RT: 10.80 min Scan# 1482  
Delta R.T. -0.25 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 31453  
Ion Ratio Lower Upper  
248 100  
250 196.2 79.4 119.2#  
141 550.7 55.9 83.9#

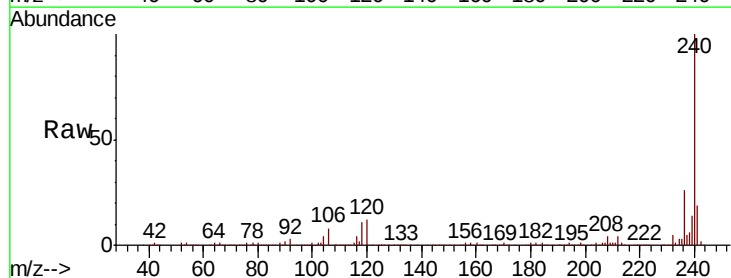


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

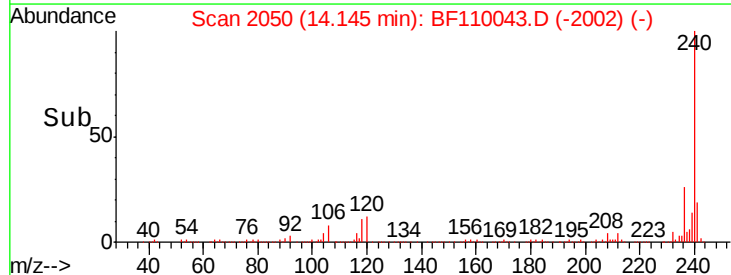
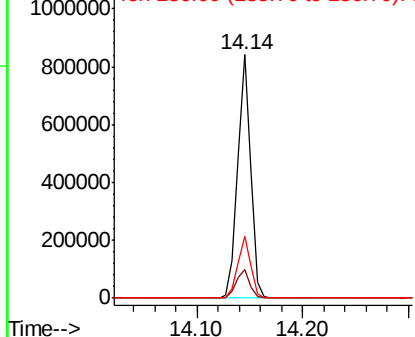


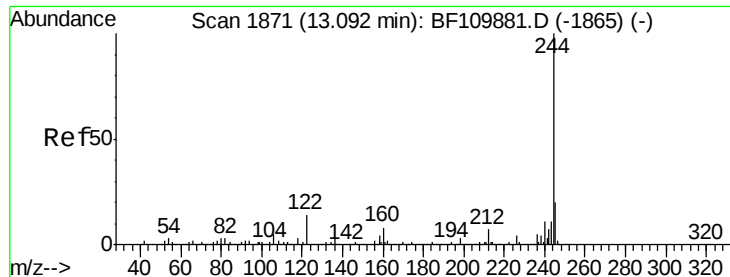
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.14 min Scan# 2050  
Delta R.T. -0.02 min  
Lab File: BF110043.D  
Acq: 22 Oct 2018 12:25

Tgt Ion:240 Resp: 698665  
Ion Ratio Lower Upper  
240 100  
120 11.6 8.3 12.5  
236 25.6 21.2 31.8



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

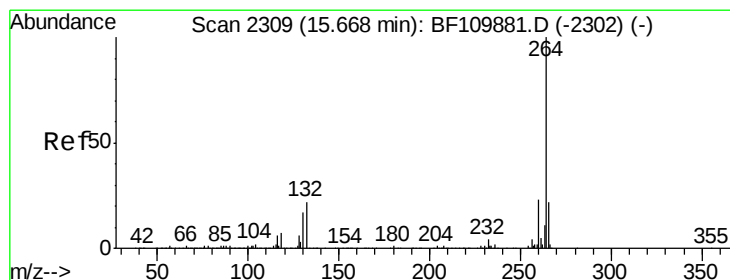
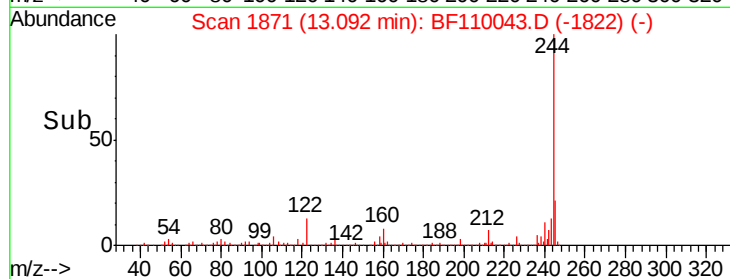
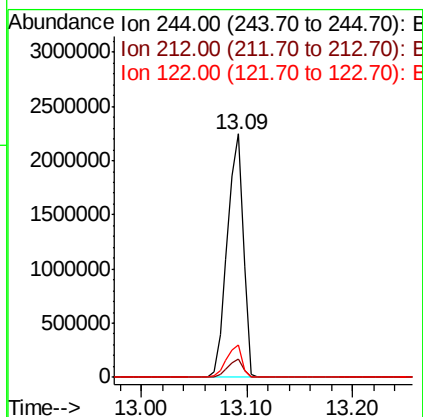
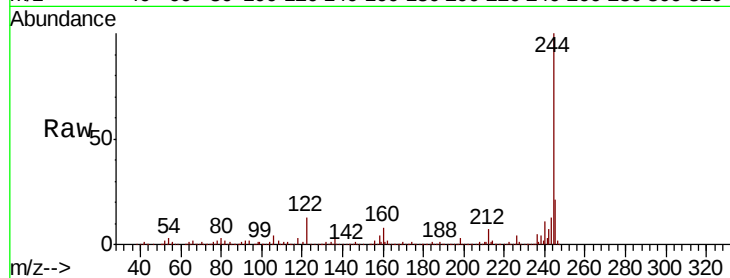




#79  
 Terphenyl-d14  
 Concen: 71.210 ng  
 RT: 13.09 min Scan# 1871  
 Delta R.T. -0.01 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:244 Resp: 2369231  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.8 8.8  
 122 13.1 8.7 13.1#



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2309  
 Delta R.T. -0.02 min  
 Lab File: BF110043.D  
 Acq: 22 Oct 2018 12:25

Tgt Ion:264 Resp: 594223  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 18.7 28.1  
 265 21.3 16.7 25.1

