

Data Path : U:\HPCHEM1\BNA F\DATA\BF013018\  
 Data File : BF102637.D  
 Acq On : 30 Jan 2018 14:16  
 Operator : SJ/JU  
 Sample : J1345-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

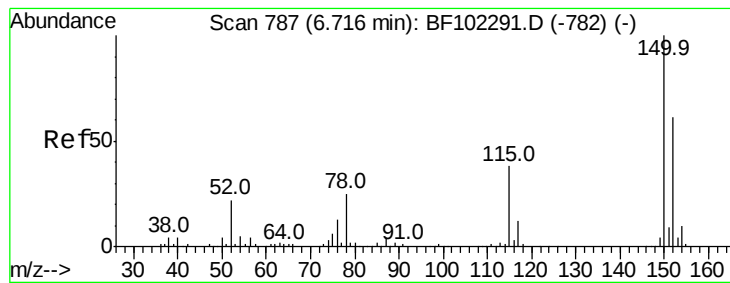
Quant Time: Jan 30 22:16:26 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 27 20:48:40 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.71  | 152  | 157214   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.99  | 136  | 677067   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 304447   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 548903   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.87 | 240  | 466896   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.30 | 264  | 399569   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 1187820  | 114.56 | ng    | 0.02     |
| 7) Phenol-d6                | 6.37  | 99   | 1307059  | 104.56 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 1059796  | 89.95  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 345043   | 114.38 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 1851310  | 89.41  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 1717759  | 82.94  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.38  | 94   | 75919    | 5.563  | ng    | 93     |
| 17) 2-Methylphenol             | 7.13  | 107  | 380493   | 40.308 | ng    | # 70   |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 140700   | 18.393 | ng    | # 80   |
| 20) 3+4-Methylphenols          | 7.13  | 107  | 385371   | 34.712 | ng    | 86     |
| 25) Isophorone                 | 7.28  | 82   | 1056263  | 50.288 | ng    | # 64   |
| 31) Naphthalene                | 8.01  | 128  | 200980   | 5.945  | ng    | 98     |
| 49) Dimethylphthalate          | 9.46  | 163  | 80937    | 3.216  | ng    | 99     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 40169    | 7.404  | ng    | # 26   |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 40169    | 6.021  | ng    | # 23   |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 23246    | 3.934  | ng    | # 1    |
| 76) Benzidine                  | 12.58 | 184  | 1194628  | 76.165 | ng    | 97     |

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

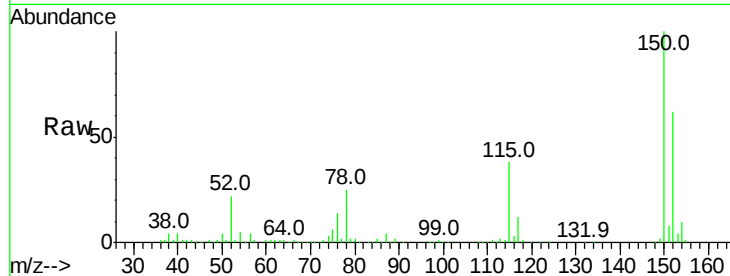


#1

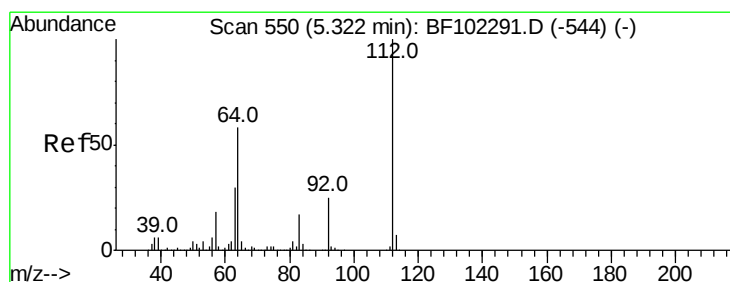
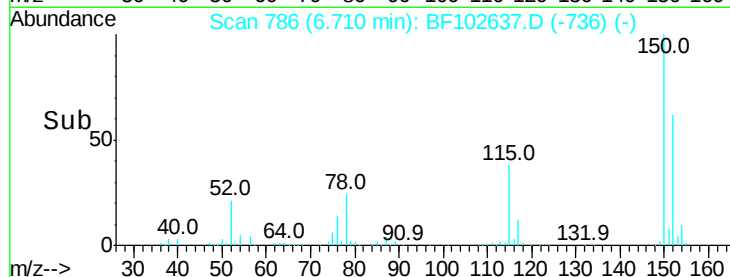
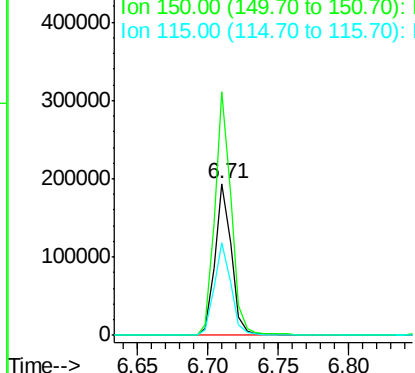
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.71 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 157214  
Ion Ratio Lower Upper  
152 100  
150 160.7 124.6 186.8  
115 61.3 50.1 75.1



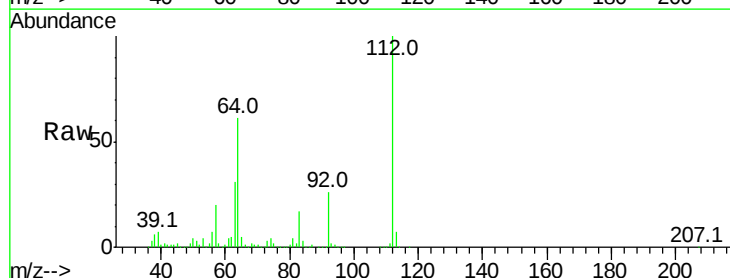
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



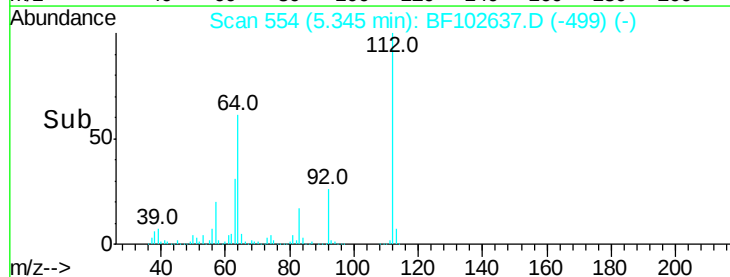
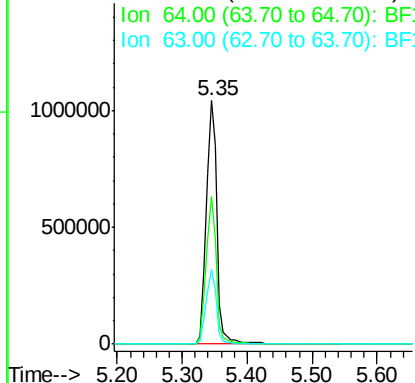
#5

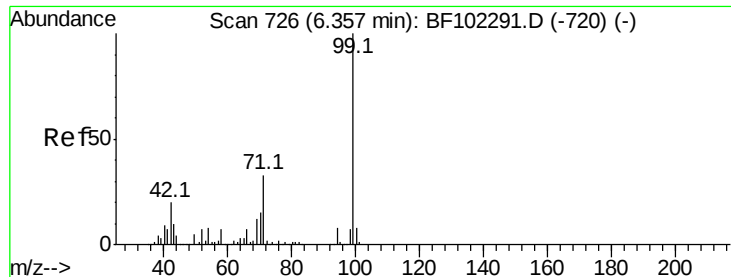
2-Fluorophenol  
Concen: 114.560 ng  
RT: 5.35 min Scan# 554  
Delta R.T. 0.02 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Tgt Ion:112 Resp: 1187820  
Ion Ratio Lower Upper  
112 100  
64 60.8 47.9 71.9  
63 30.6 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: 104.563 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Instrument :

BNA\_F

ClientSampleId :

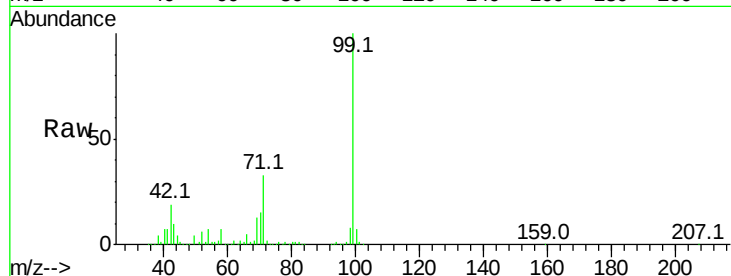
Tot Ion: 99 Resp: 1307059

Ion Ratio Lower Upper

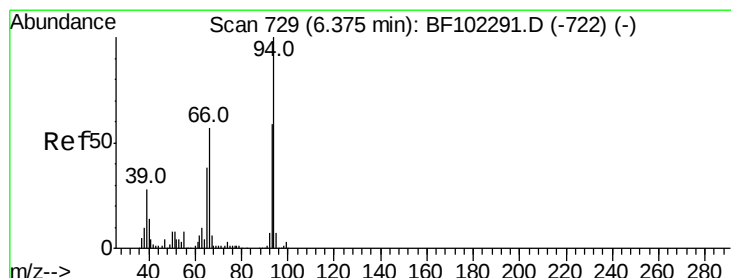
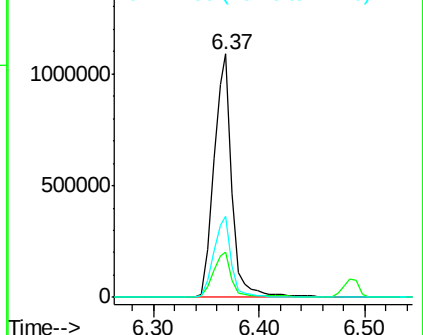
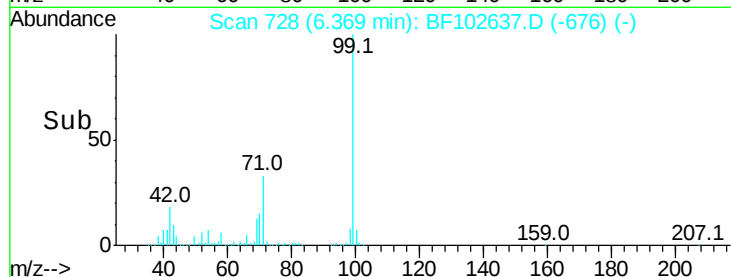
99 100

42 18.6 14.5 21.7

71 33.1 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



#10

Phenol

Concen: 5.563 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

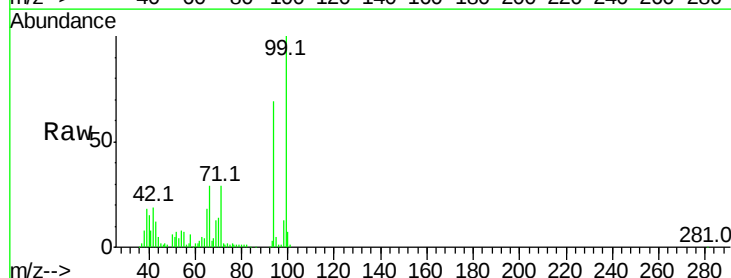
Tgt Ion: 94 Resp: 75919

Ion Ratio Lower Upper

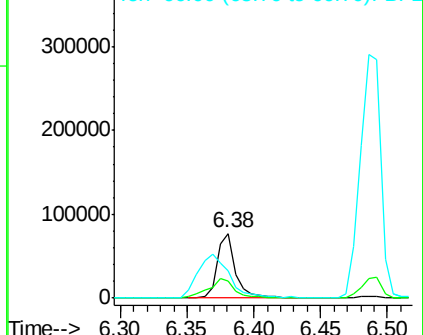
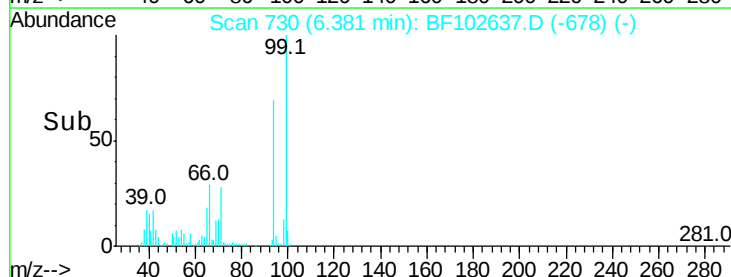
94 100

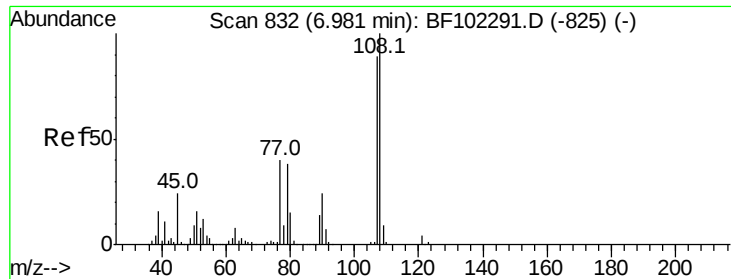
65 26.5 7.9 47.9

66 41.9 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

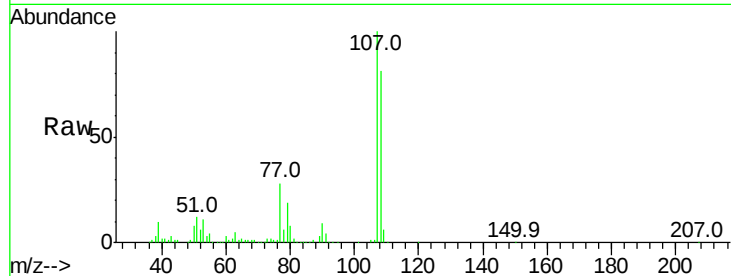




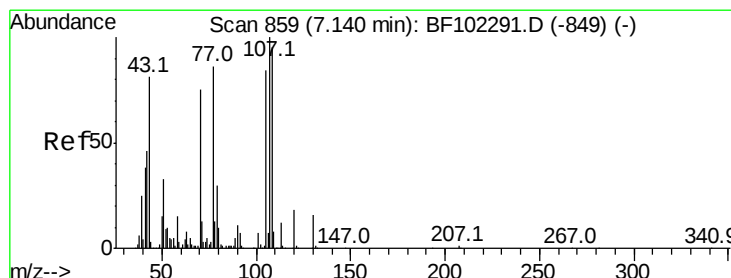
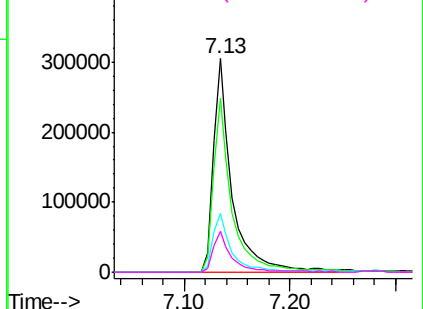
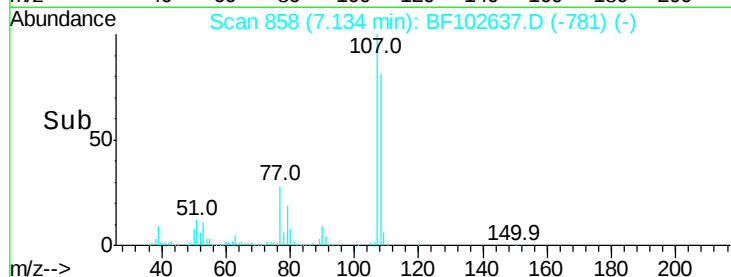
#17  
2-Methylphenol  
Concen: 40.308 ng  
RT: 7.13 min Scan# 858  
Delta R.T. 0.15 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 107 Resp: 380493  
Ion Ratio Lower Upper  
107 100  
108 81.3 91.7 137.5#  
77 27.8 33.8 50.8#  
79 19.5 33.8 50.8#

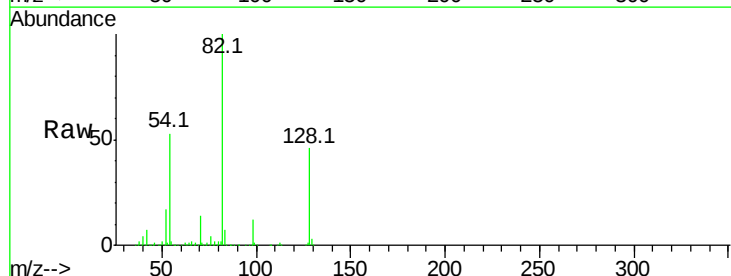


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

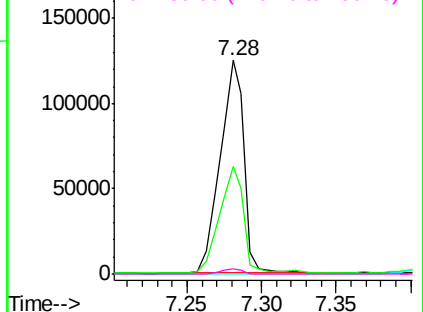
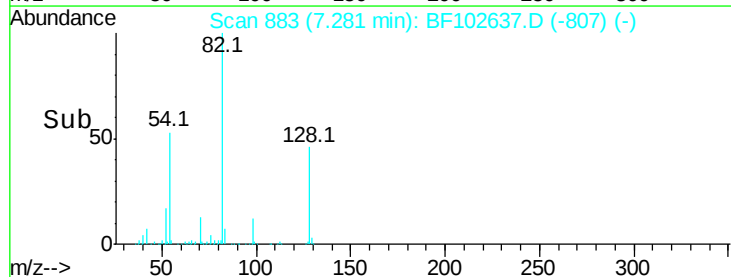


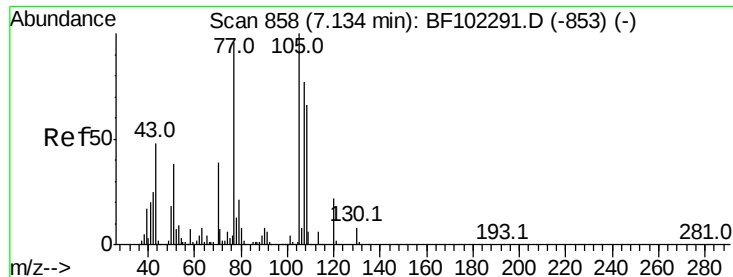
#19  
n-Nitroso-di-n-propylamine  
Concen: 18.393 ng  
RT: 7.28 min Scan# 883  
Delta R.T. 0.15 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Tgt Ion: 70 Resp: 140700  
Ion Ratio Lower Upper  
70 100  
42 50.6 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.3 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): E  
Ion 130.00 (129.70 to 130.70): E





#20

3+4-Methylphenols

Concen: 34.712 ng

RT: 7.13 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Instrument :

BNA\_F

ClientSampled :

Tot Ion:107 Resp: 385371

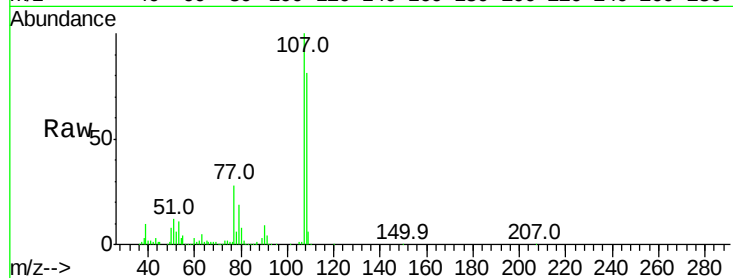
Ion Ratio Lower Upper

107 100

108 81.3 68.2 108.2

77 27.8 26.7 66.7

79 19.5 6.3 46.3

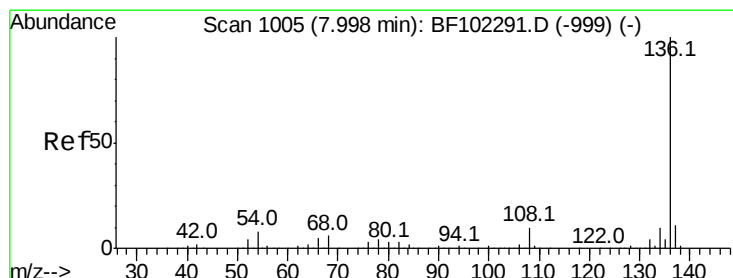
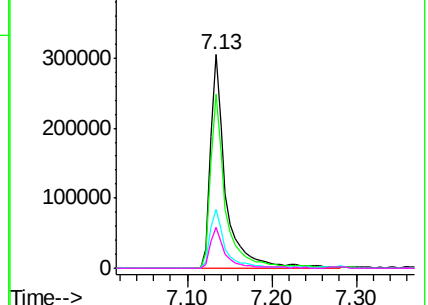
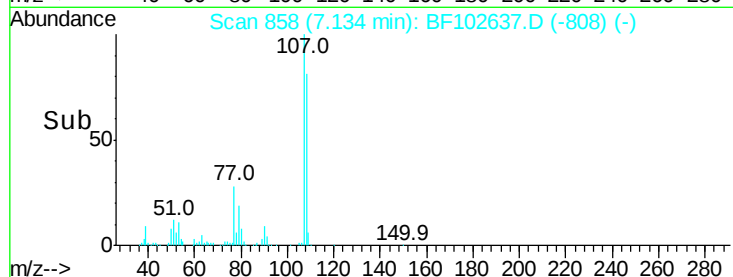


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Tgt Ion:136 Resp: 677067

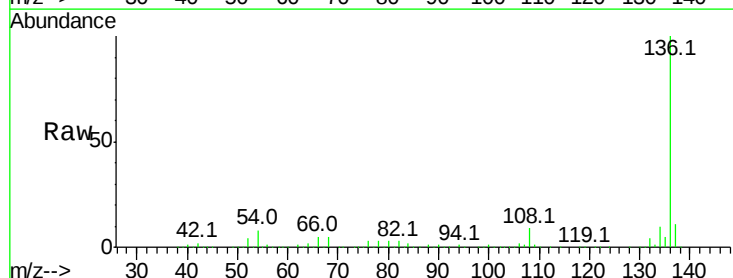
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.0 6.6 9.8

68 5.4 5.0 7.4

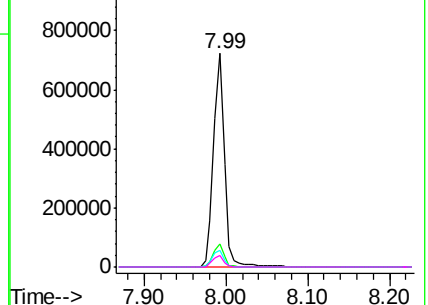
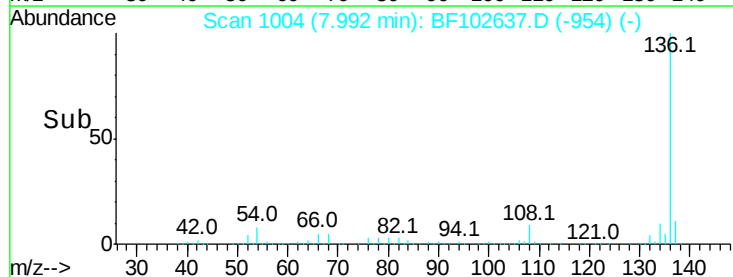


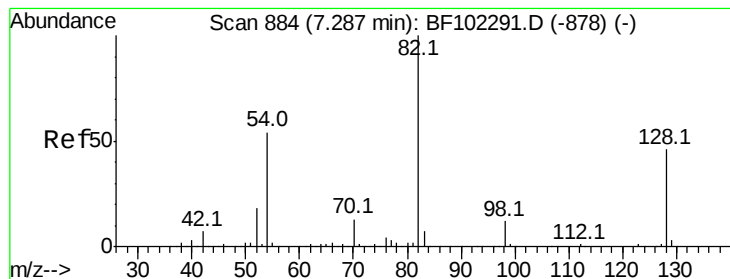
Abundance Ion 136.00 (135.70 to 136.70): E

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: 89.951 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Instrument :

BNA\_F

ClientSampled :

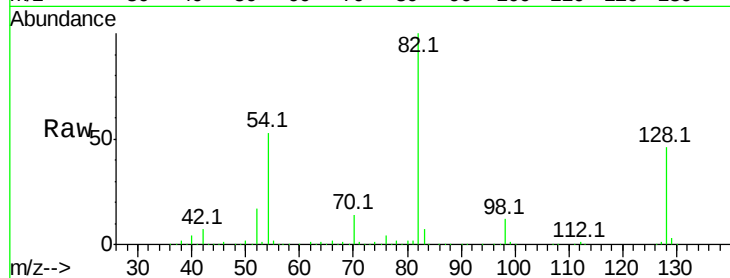
Tot Ion: 82 Resp: 1059796

Ion Ratio Lower Upper

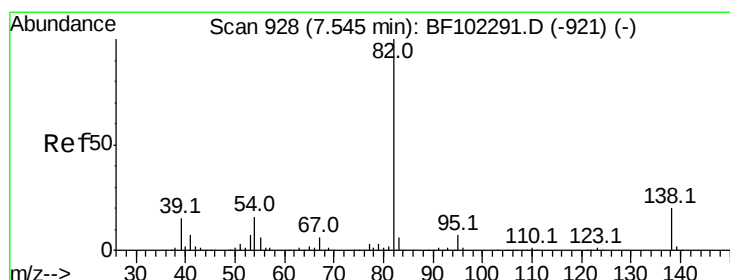
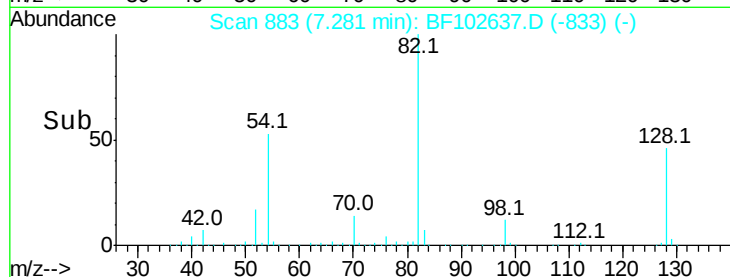
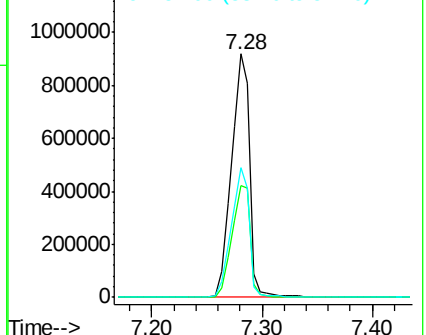
82 100

128 45.9 36.1 54.1

54 53.2 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 50.288 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

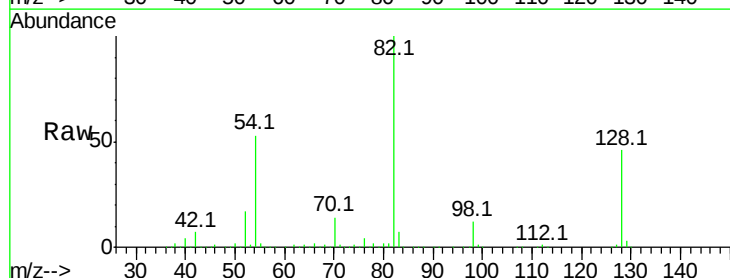
Tgt Ion: 82 Resp: 1056263

Ion Ratio Lower Upper

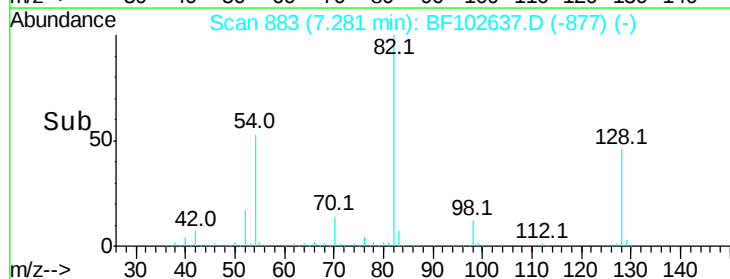
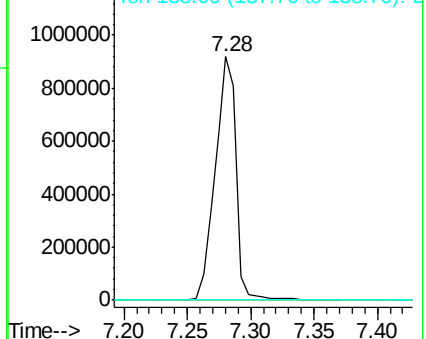
82 100

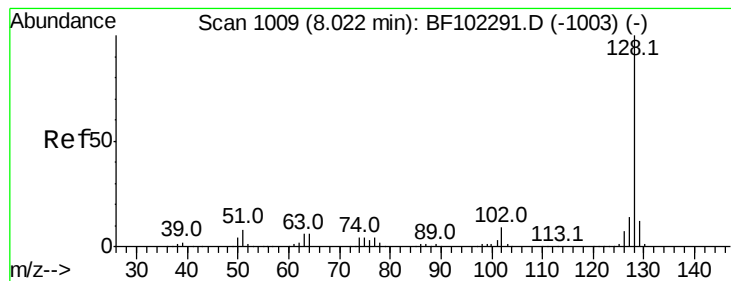
95 0.0 5.2 7.8#

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





#31

Naphthalene

Concen: 5.945 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Instrument :

BNA\_F

ClientSampleId :

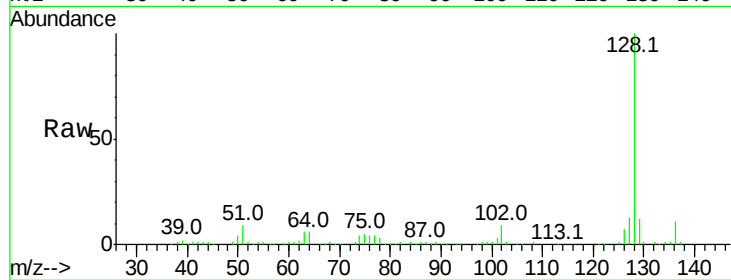
Tot Ion:128 Resp: 200980

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

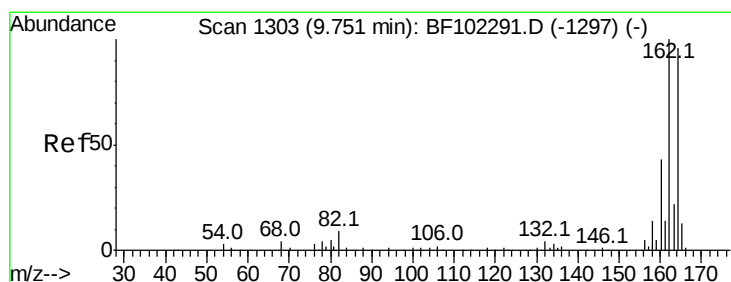
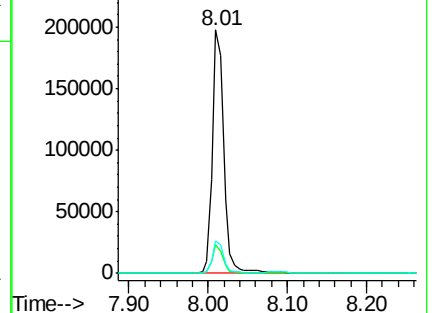
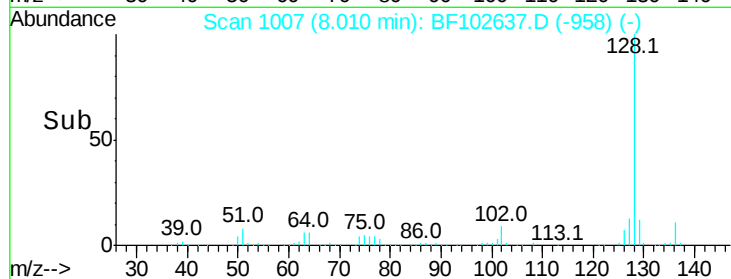
127 13.1 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

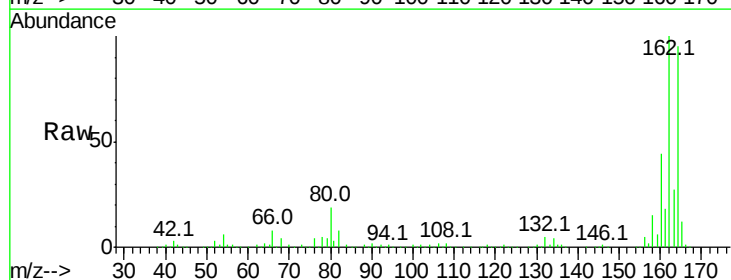
Tgt Ion:164 Resp: 304447

Ion Ratio Lower Upper

164 100

162 105.6 86.1 129.1

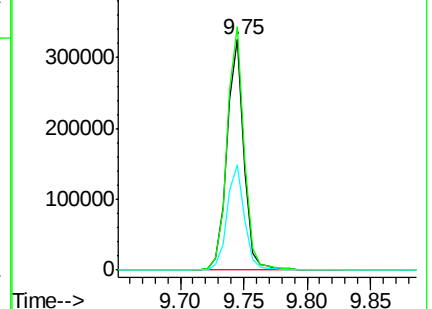
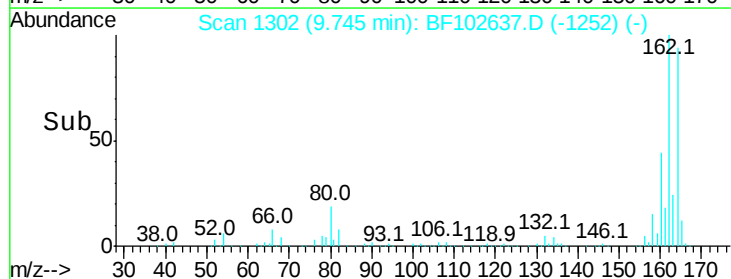
160 45.9 38.3 57.5

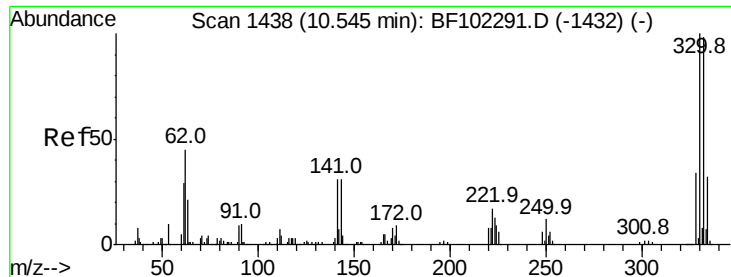


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

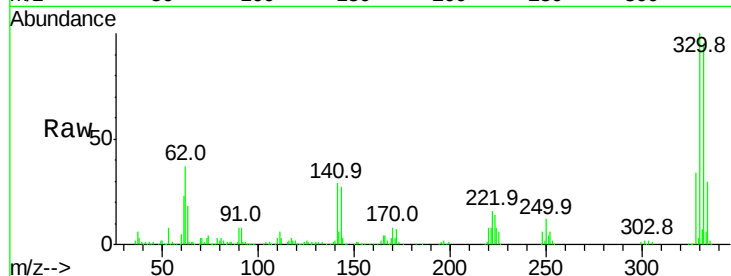




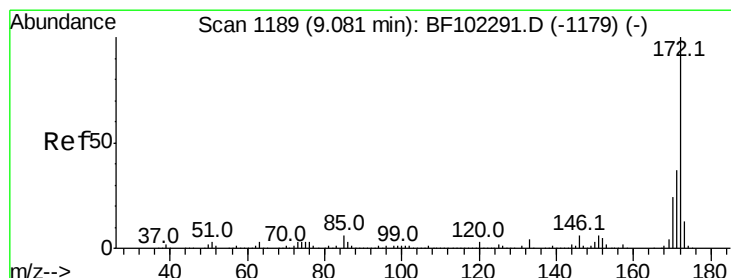
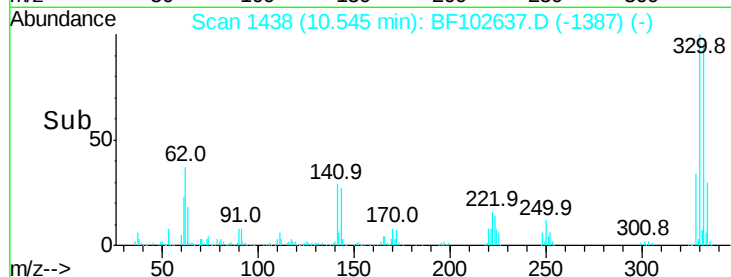
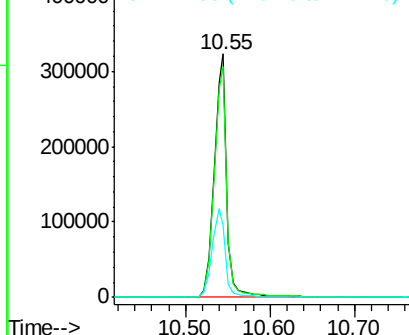
#41  
 2,4,6-Tribromophenol  
 Concen: 114.380 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.00 min  
 Lab File: BF102637.D  
 Acq: 30 Jan 2018 14:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 345043  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 77.0 115.6  
 141 38.7 29.9 44.9

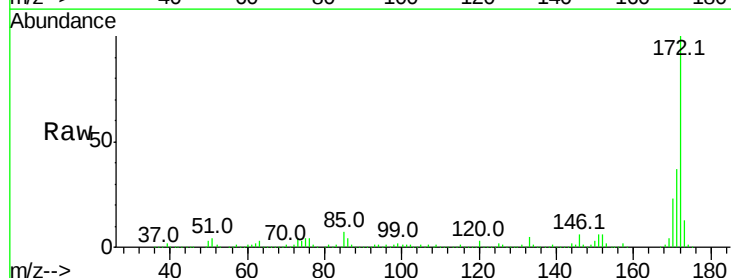


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

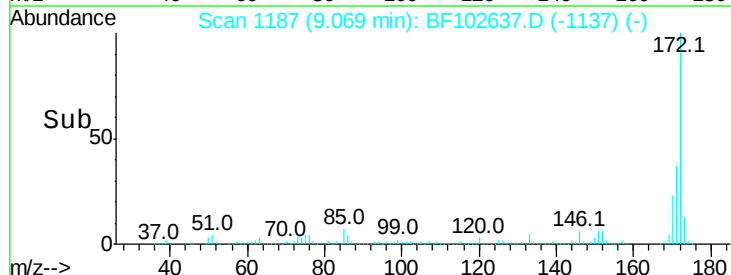
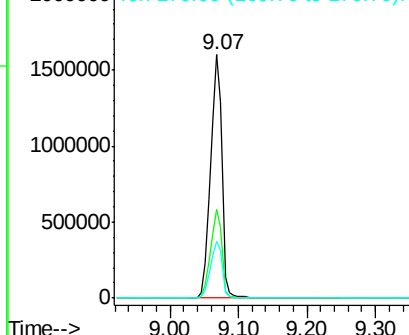


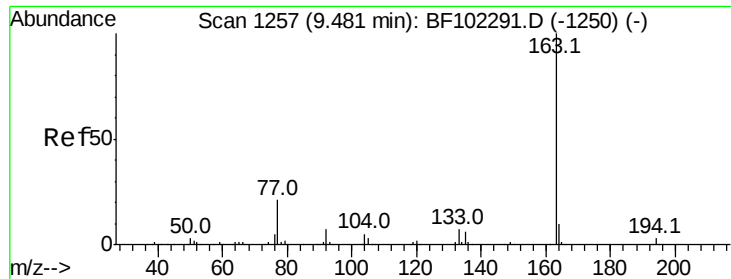
#44  
 2-Fluorobiphenyl  
 Concen: 89.411 ng  
 RT: 9.07 min Scan# 1187  
 Delta R.T. -0.01 min  
 Lab File: BF102637.D  
 Acq: 30 Jan 2018 14:16

Tgt Ion:172 Resp: 1851310  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.7 44.5  
 170 23.4 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

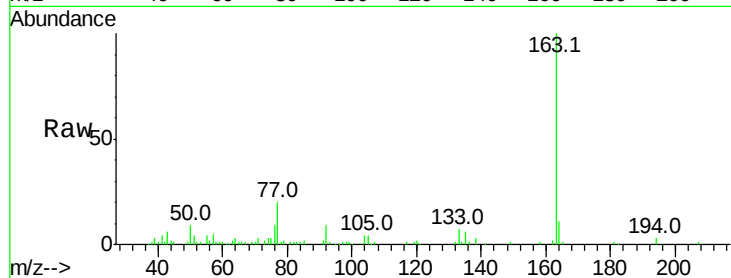




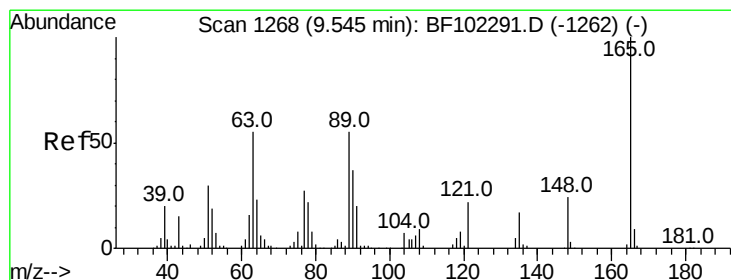
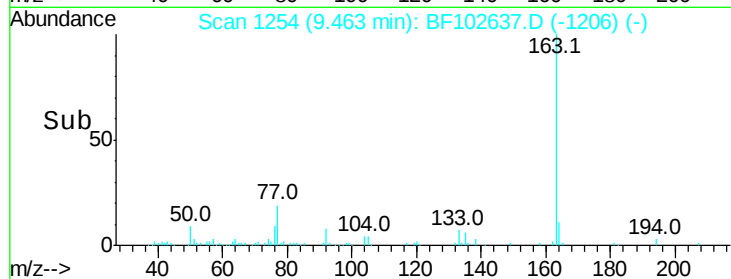
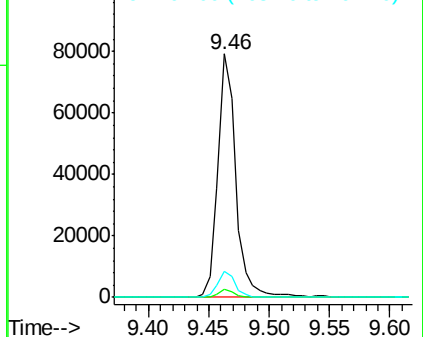
#49  
Dimethylphthalate  
Concen: 3.216 ng  
RT: 9.46 min Scan# 1254  
Delta R.T. -0.02 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.2   | 2.7   | 4.1   |
| 164     | 10.9  | 8.2   | 12.2  |

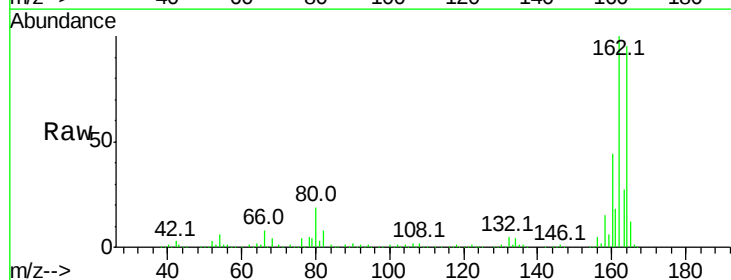


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

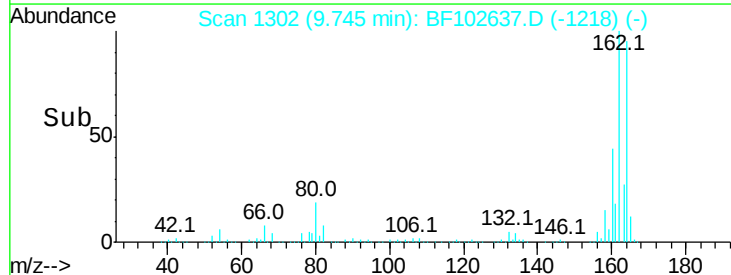
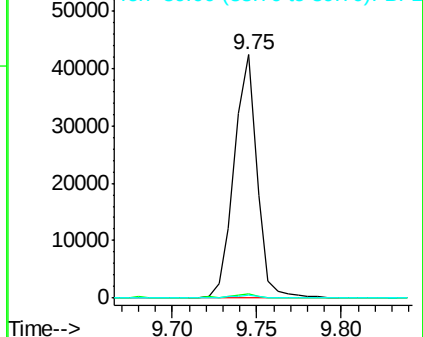


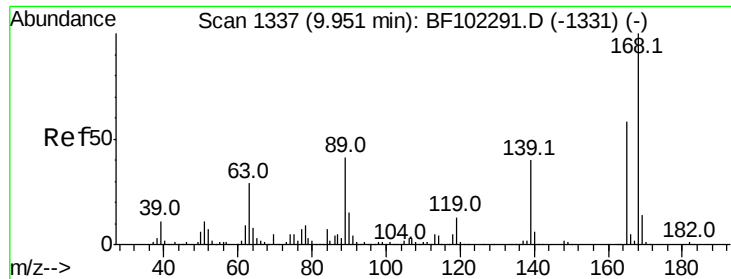
#50  
2,6-Dinitrotoluene  
Concen: 7.404 ng  
RT: 9.75 min Scan# 1302  
Delta R.T. 0.19 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 44.7  | 67.1# |
| 89      | 1.3   | 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

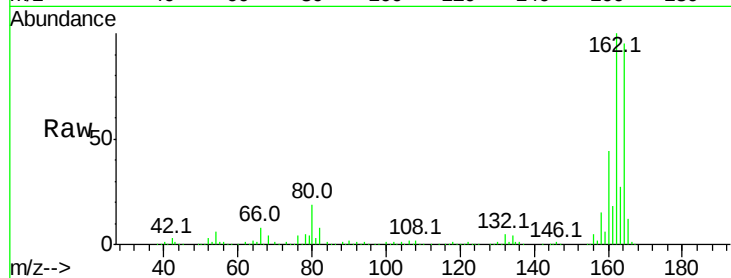




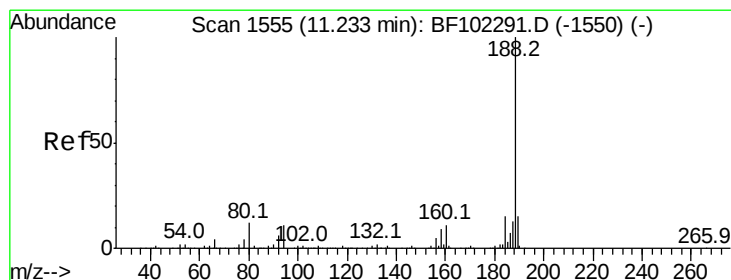
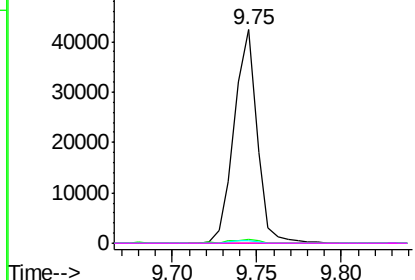
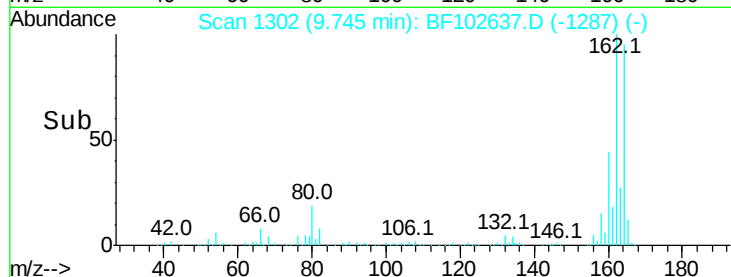
#56  
2,4-Dinitrotoluene  
Concen: 6.021 ng  
RT: 9.75 min Scan# 1302  
Delta R.T. -0.21 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 40169  
Ion Ratio Lower Upper  
165 100  
63 1.8 36.4 54.6#  
89 1.3 57.8 86.6#  
182 0.0 1.6 2.4#

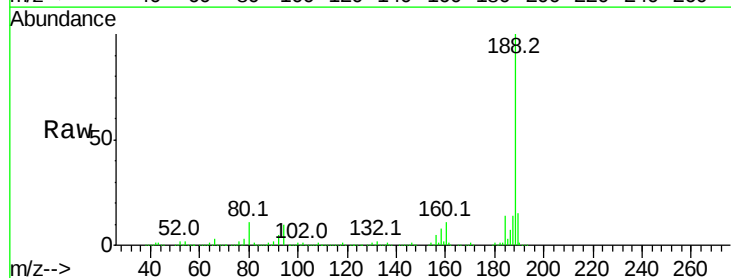


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

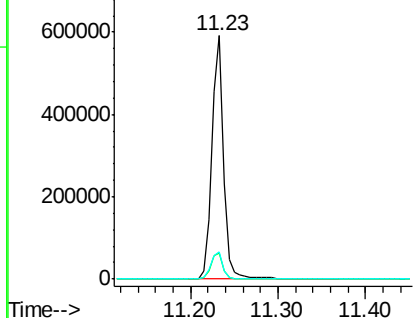
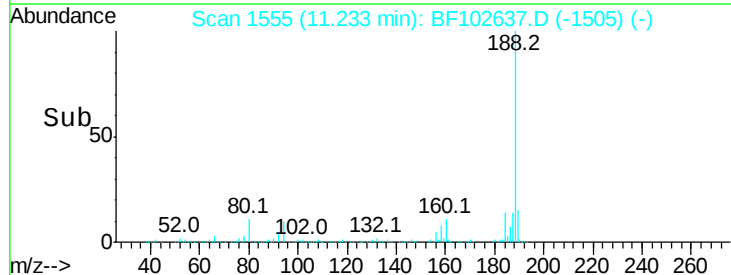


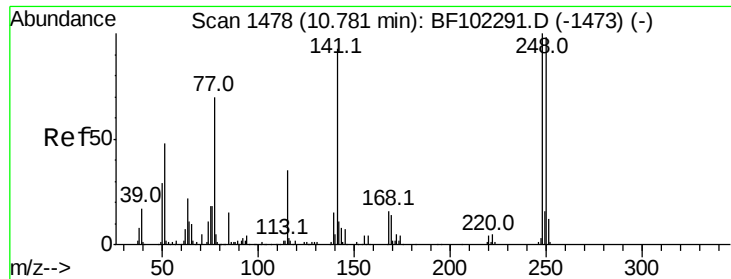
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.01 min  
Lab File: BF102637.D  
Acq: 30 Jan 2018 14:16

Tgt Ion:188 Resp: 548903  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.5 12.7  
80 11.2 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

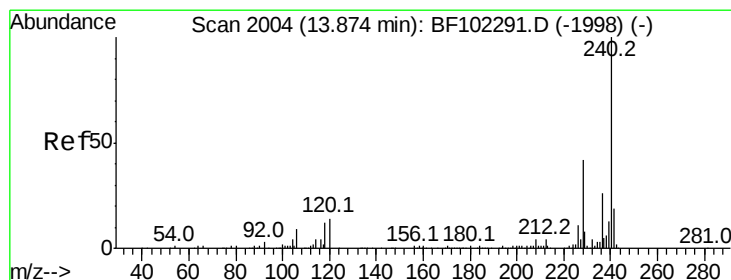
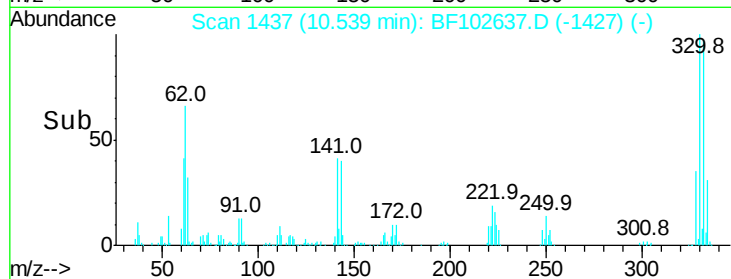
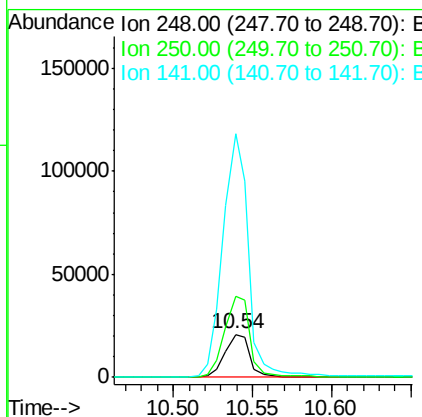
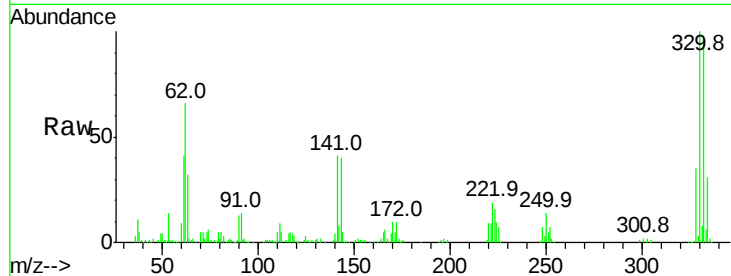




#66  
 4-Bromophenyl-phenylether  
 Concen: 3.934 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.24 min  
 Lab File: BF102637.D  
 Acq: 30 Jan 2018 14:16

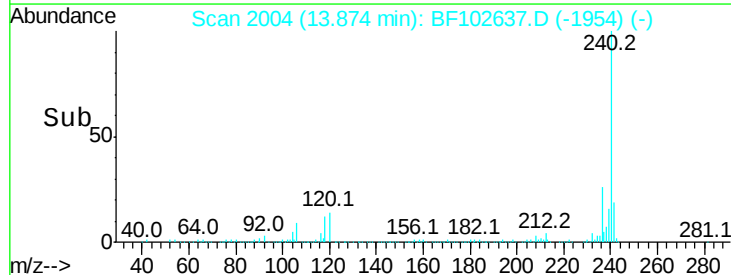
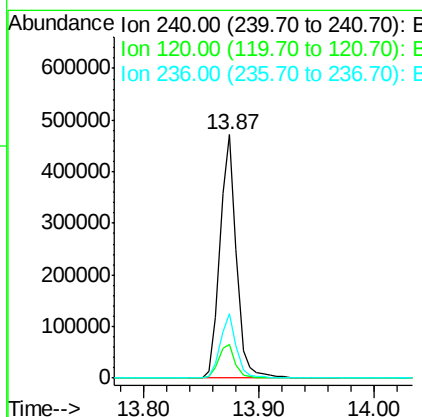
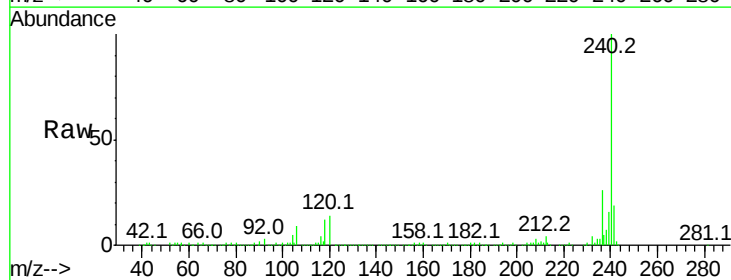
Instrument :  
 BNA\_F  
 ClientSampleId :

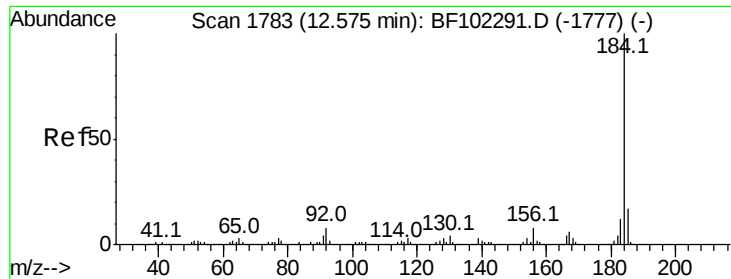
Tot Ion:248 Resp: 23246  
 Ion Ratio Lower Upper  
 248 100  
 250 187.7 76.9 115.3#  
 141 562.8 74.4 111.6#



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.87 min Scan# 2004  
 Delta R.T. -0.01 min  
 Lab File: BF102637.D  
 Acq: 30 Jan 2018 14:16

Tgt Ion:240 Resp: 466896  
 Ion Ratio Lower Upper  
 240 100  
 120 14.0 9.5 14.3  
 236 26.2 20.7 31.1





#76

Benzidine

Concen: 76.165 ng

RT: 12.58 min Scan# 1784

Delta R.T. 0.01 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

Instrument :

BNA\_F

ClientSampleId :

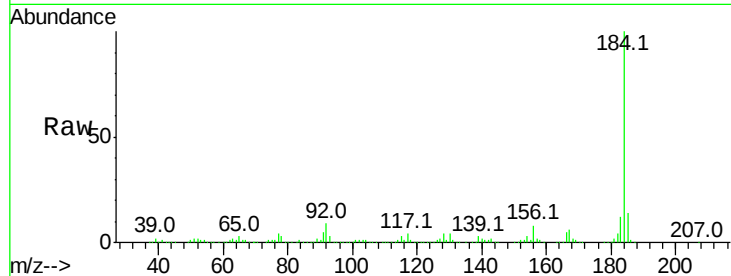
Tot Ion:184 Resp: 1194628

Ion Ratio Lower Upper

184 100

185 14.3 12.6 18.8

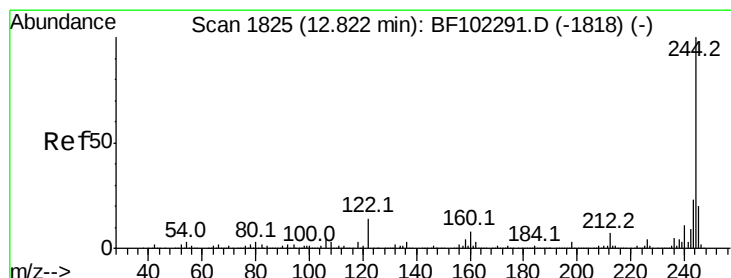
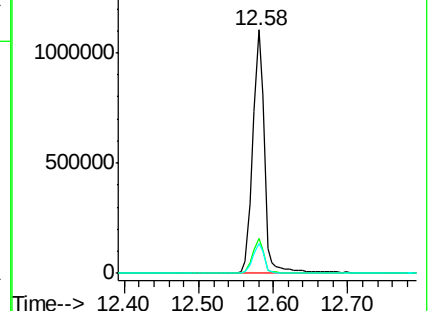
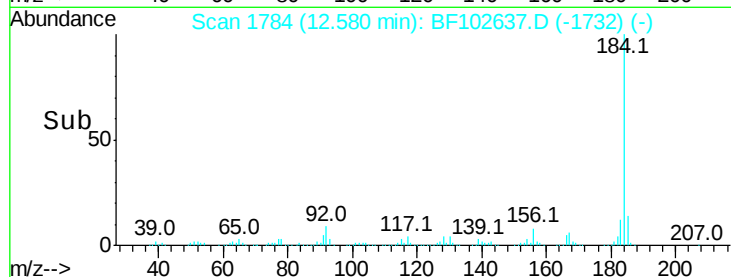
183 12.4 9.3 13.9



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 82.940 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.00 min

Lab File: BF102637.D

Acq: 30 Jan 2018 14:16

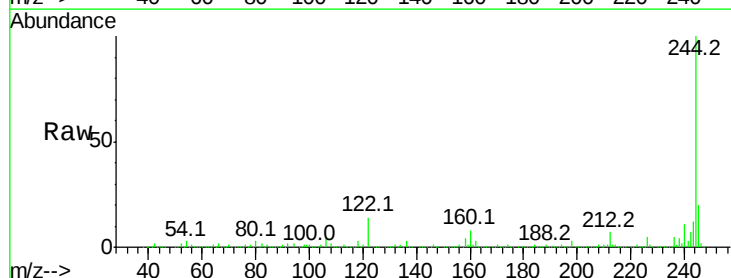
Tgt Ion:244 Resp: 1717759

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

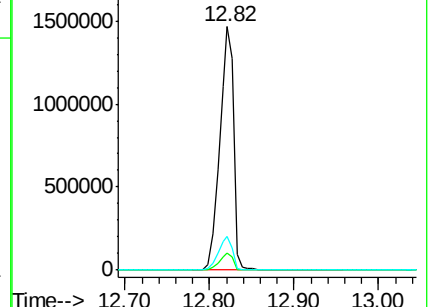
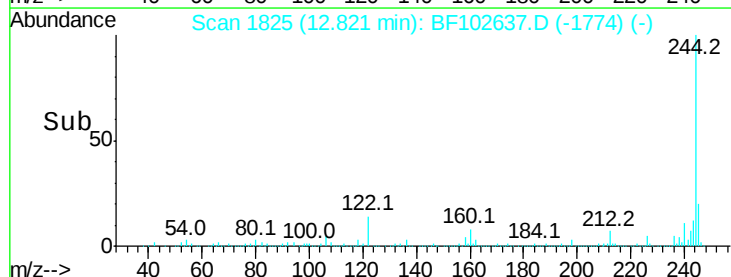
122 13.7 11.0 16.4

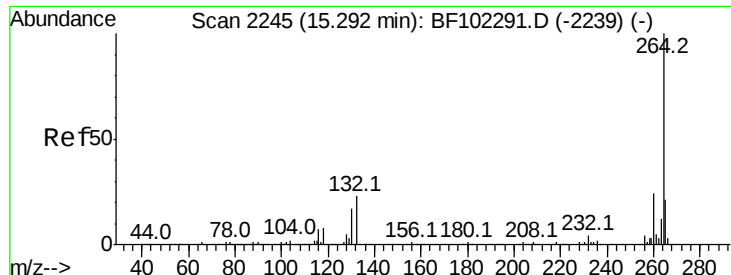


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

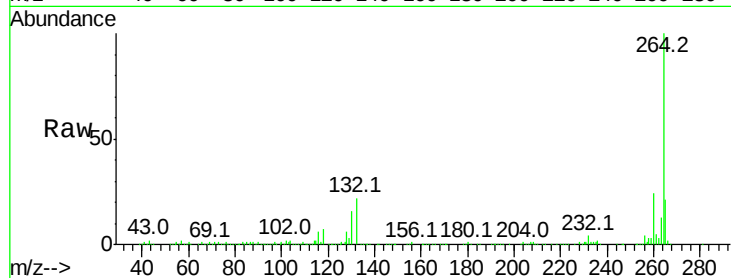




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.30 min Scan# 2247  
 Delta R.T. -0.00 min  
 Lab File: BF102637.D  
 Acq: 30 Jan 2018 14:16

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 399569 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.6  | 19.2  | 28.8   |
| 265      | 20.8  | 17.5  | 26.3   |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E

