

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\  
 Data File : BF108331.D  
 Acq On : 21 Aug 2018 11:43  
 Operator : JU/SJ  
 Sample : J4521-03RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RT2286

Quant Time: Aug 21 12:16:09 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

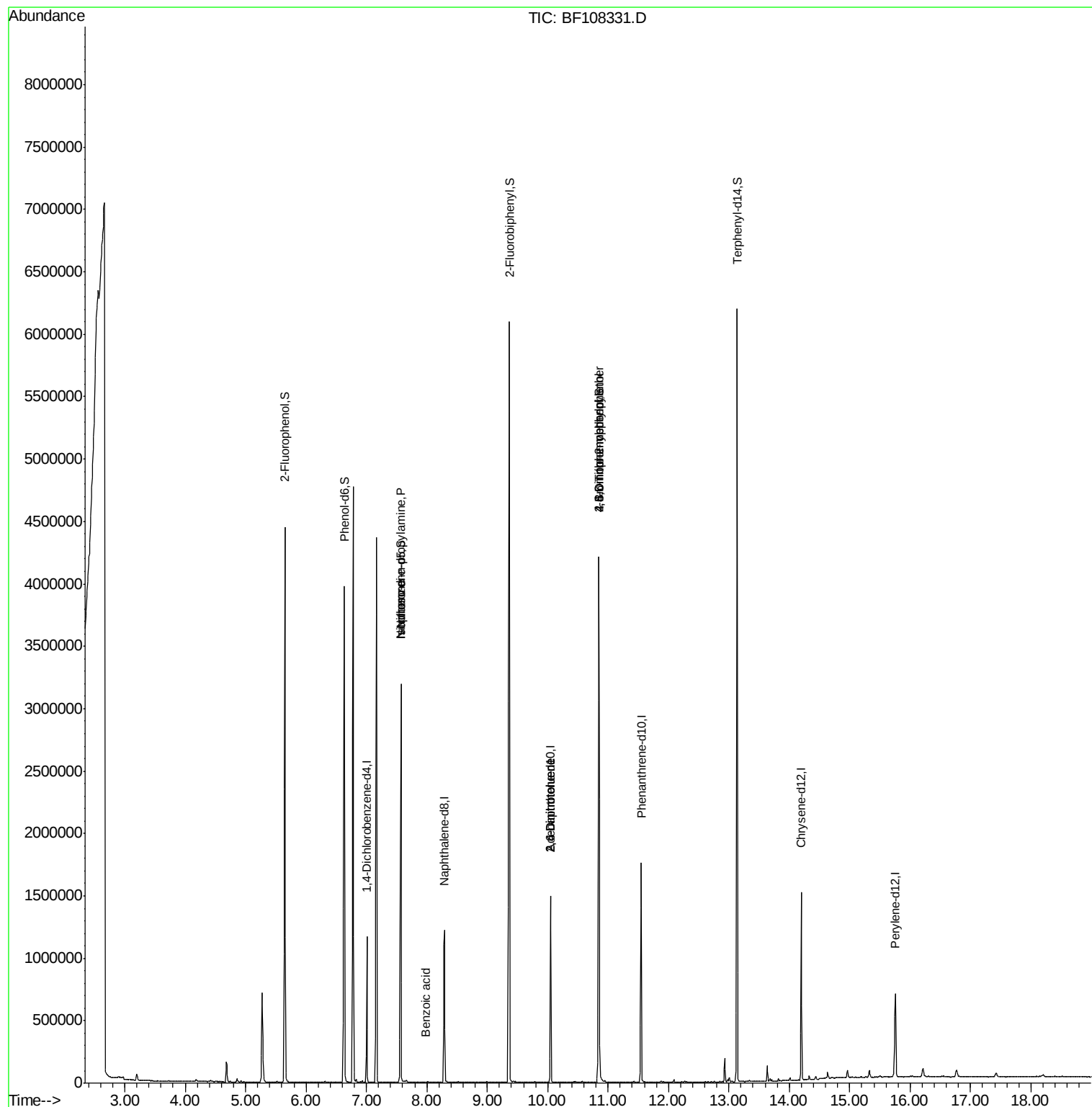
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.01  | 152  | 159960   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.29  | 136  | 587832   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 10.05 | 164  | 300749   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.55 | 188  | 634261   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.20 | 240  | 499896   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.75 | 264  | 334138   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 1207292  | 136.64 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.64  | 99   | 1479692  | 126.03 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.57  | 82   | 1191137  | 113.07 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.85 | 330  | 571228   | 190.42 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.37  | 172  | 2134893  | 113.97 | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.14 | 244  | 2540848  | 129.23 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 161977   | 20.401 | ng    | # 84     |
| 25) Isophorone                 | 7.57  | 82   | 1186820  | 59.108 | ng    | # 64     |
| 32) Benzoic acid               | 7.98  | 122  | 946      | 6.135  | ng    | # 82     |
| 50) 2,6-Dinitrotoluene         | 10.05 | 165  | 39055    | 8.910  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 10.05 | 165  | 39055    | 6.922  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.85 | 198  | 1382     | 5.874  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.85 | 248  | 37920    | 5.501  | ng    | # 1      |

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

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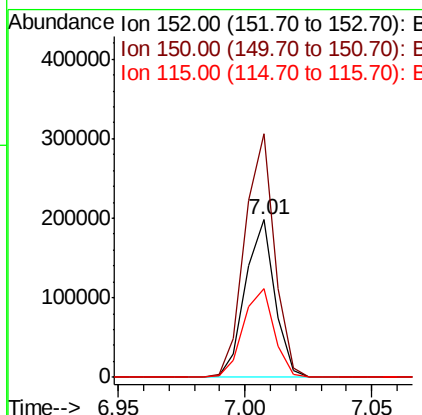
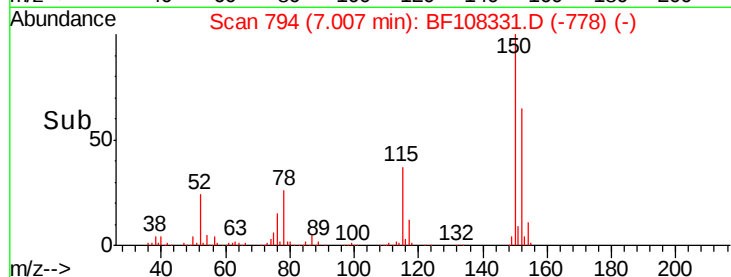
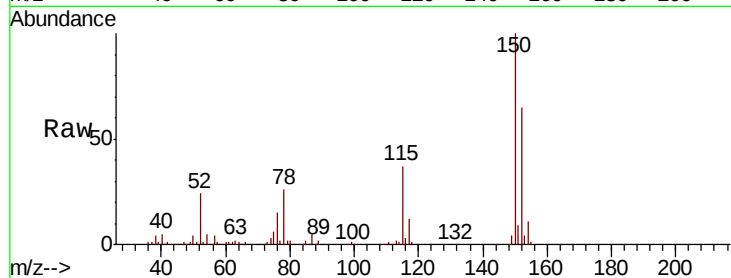


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 794  
Delta R.T. -0.01 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

Instrument :  
BNA\_F  
ClientSampleId :  
RT2286

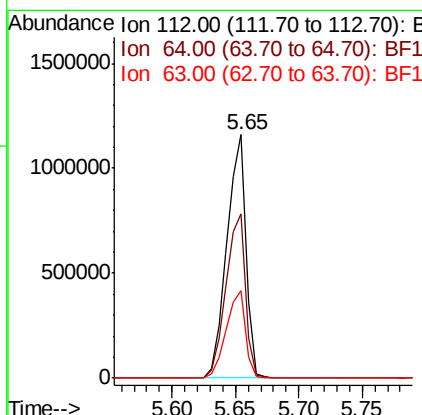
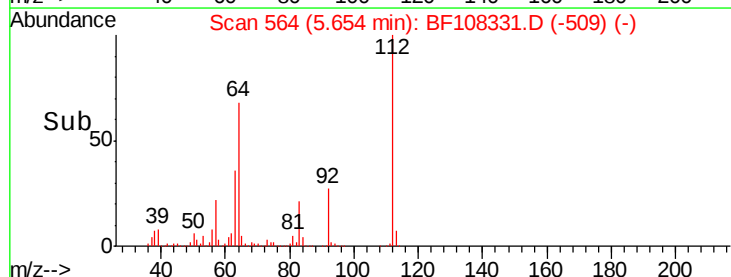
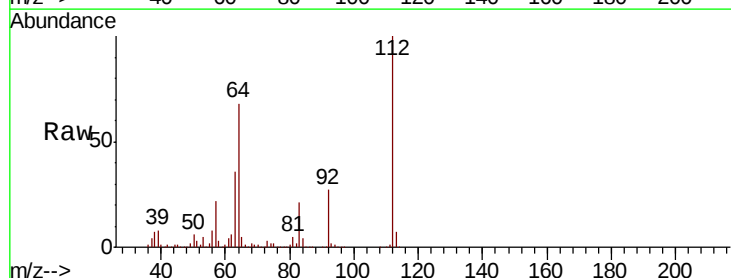
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.6 | 124.6 | 186.8 |
| 115     | 56.7  | 50.1  | 75.1  |



#5

2-Fluorophenol  
Concen: 136.643 ng  
RT: 5.65 min Scan# 564  
Delta R.T. 0.02 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.6  | 47.9  | 71.9  |
| 63      | 35.7  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 126.028 ng

RT: 6.64 min Scan# 731

Delta R.T. 0.01 min

Lab File: BF108331.D

Acq: 21 Aug 2018 11:43

Instrument :

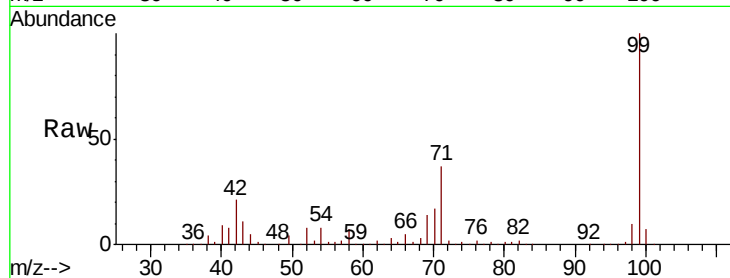
BNA\_F

ClientSampleId :

RT2286

Tot Ion: 99 Resp: 1479692

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.1  | 14.5  | 21.7  |
| 71  | 36.6  | 25.4  | 38.0  |

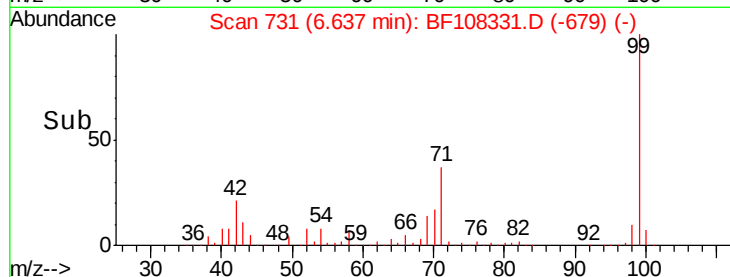
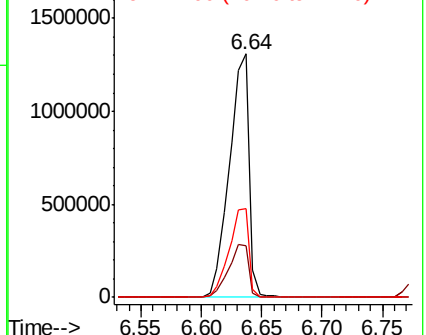


Abundance

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: 20.401 ng

RT: 7.57 min Scan# 890

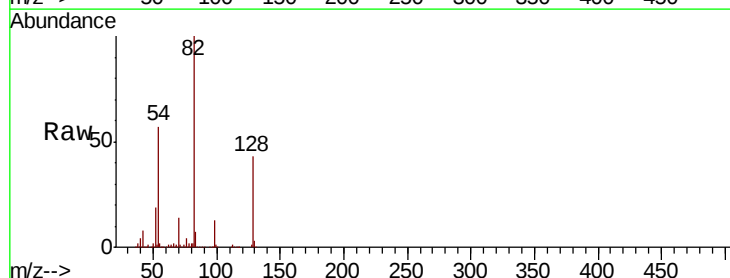
Delta R.T. 0.15 min

Lab File: BF108331.D

Acq: 21 Aug 2018 11:43

Tgt Ion: 70 Resp: 161977

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 54.6  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.0   | 16.6  | 25.0# |



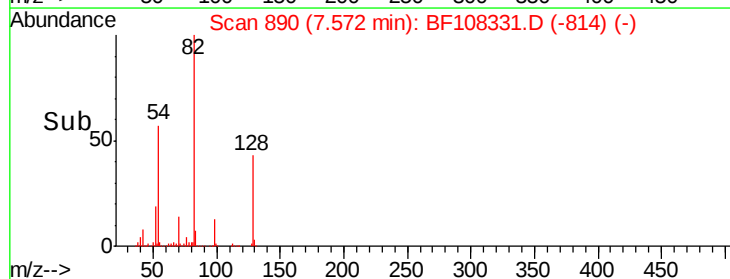
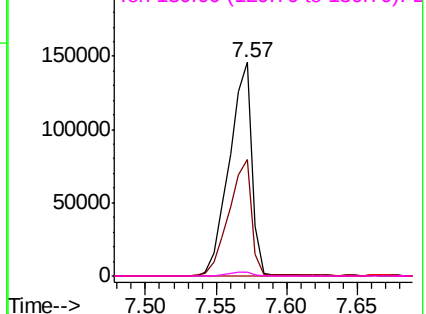
Abundance

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

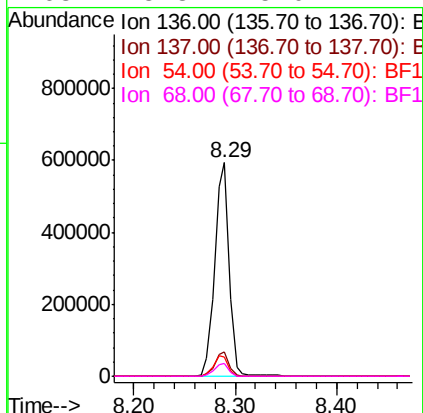
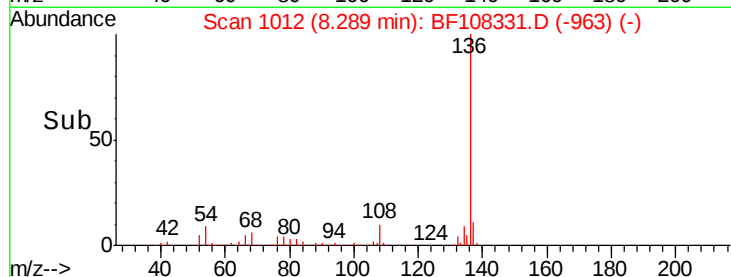
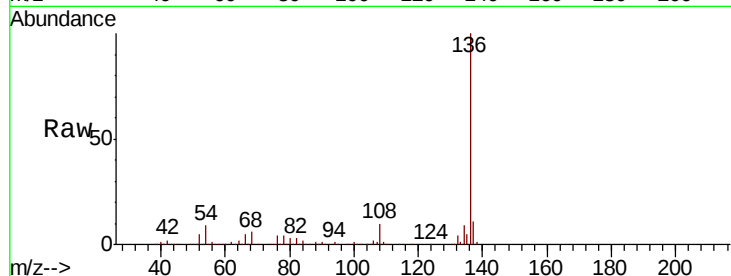




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.29 min Scan# 1012  
Delta R.T. -0.01 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

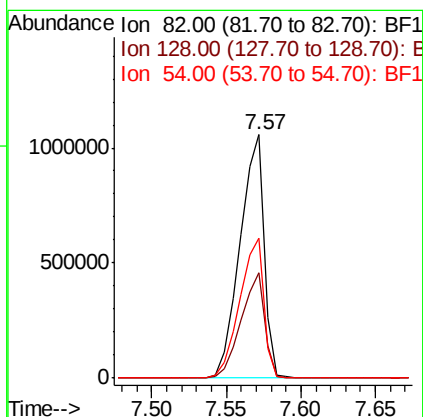
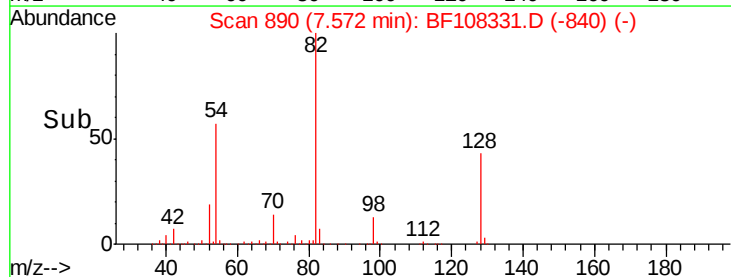
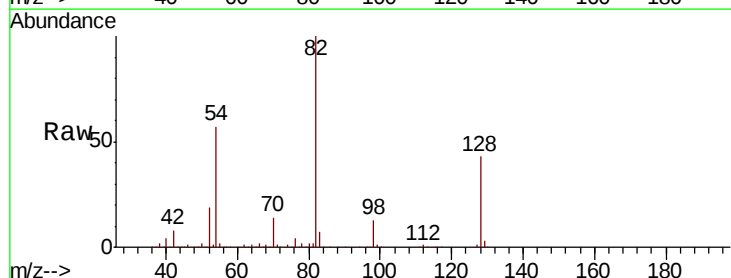
Instrument :  
BNA\_F  
ClientSampleId :  
RT2286

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 587832      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.3  | 8.9 13.3    |
| 54          | 9.0   | 6.6 9.8     |
| 68          | 5.8   | 5.0 7.4     |



#23  
Nitrobenzene-d5  
Concen: 113.072 ng  
RT: 7.57 min Scan# 890  
Delta R.T. -0.01 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1191137     |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 43.3  | 36.1 54.1   |
| 54          | 57.5  | 41.4 62.2   |

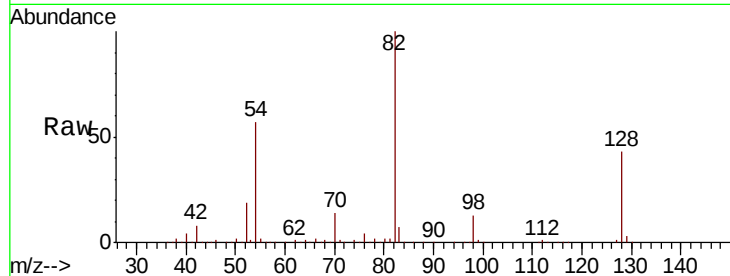




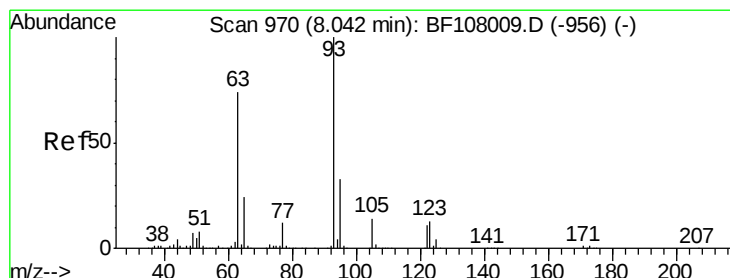
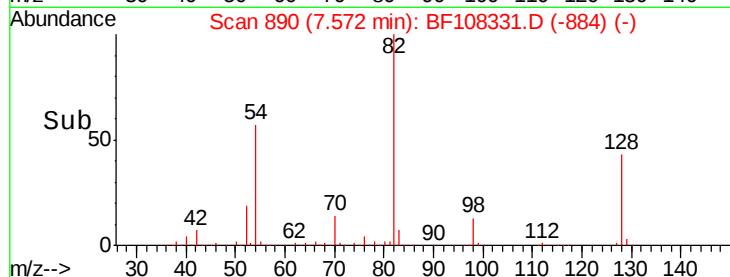
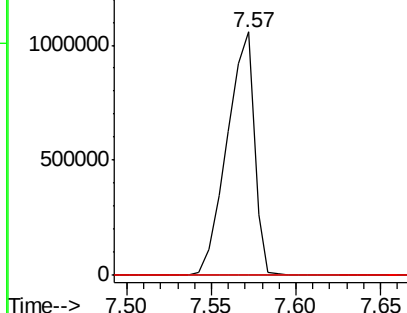
#25  
Isophorone  
Concen: 59.108 ng  
RT: 7.57 min Scan# 890  
Delta R.T. -0.26 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

Instrument :  
BNA\_F  
ClientSampleId :  
RT2286

Tot Ion: 82 Resp: 1186820  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#

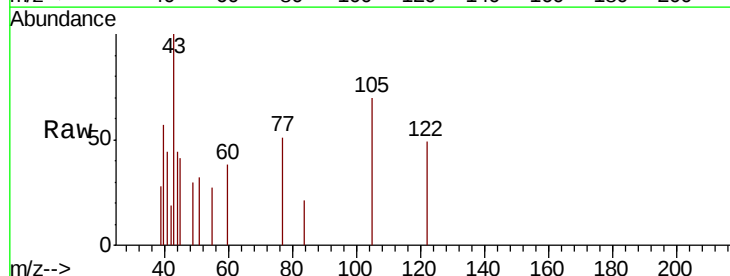


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

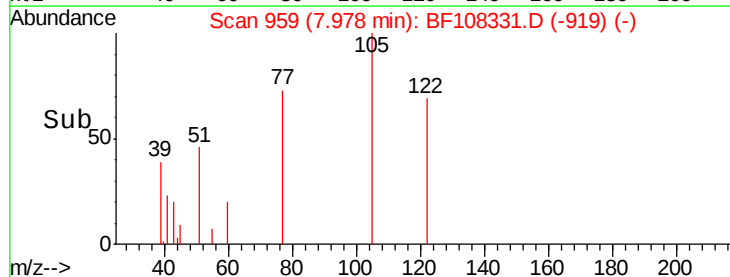
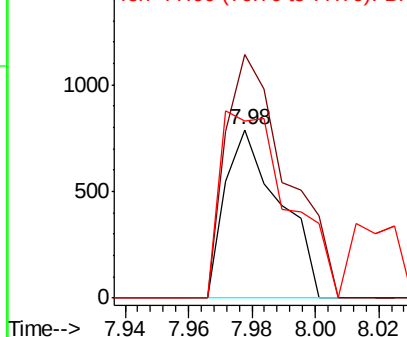


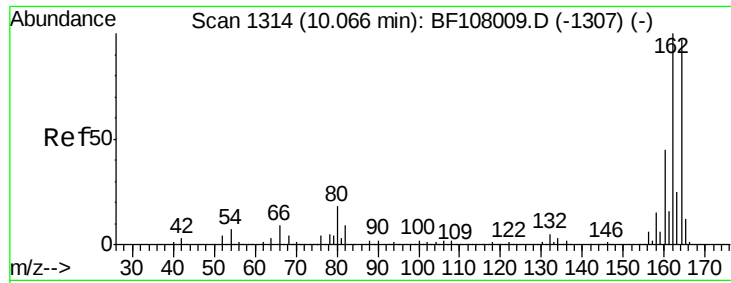
#32  
Benzoic acid  
Concen: 6.135 ng  
RT: 7.98 min Scan# 959  
Delta R.T. -0.06 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

Tgt Ion:122 Resp: 946  
Ion Ratio Lower Upper  
122 100  
105 144.4 101.1 141.1#  
77 104.8 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

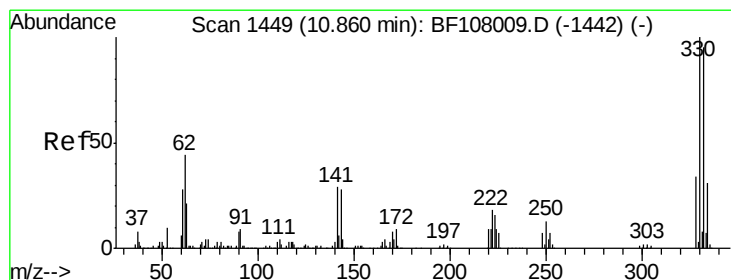
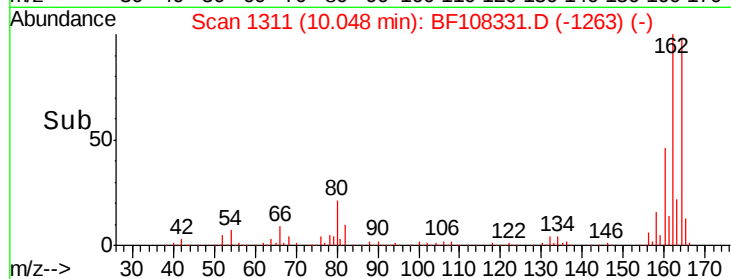
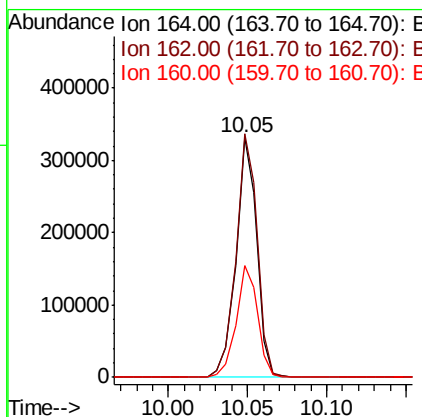
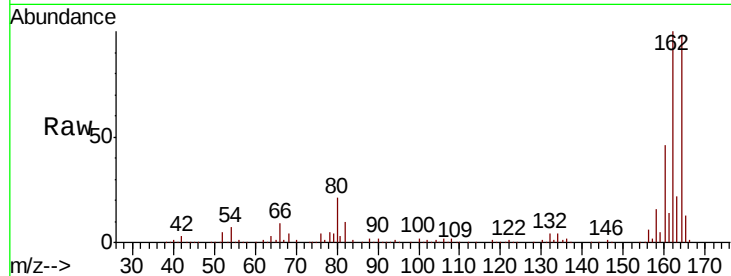




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.05 min Scan# 1311  
 Delta R.T. -0.02 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

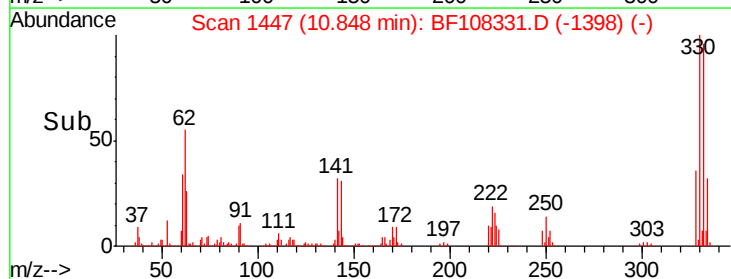
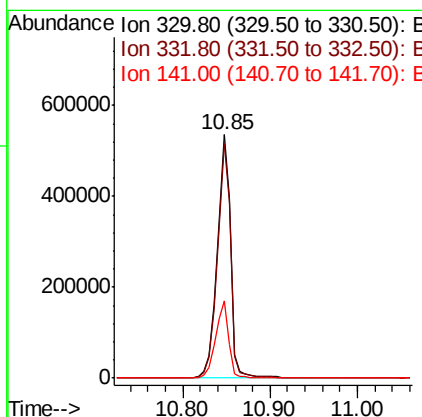
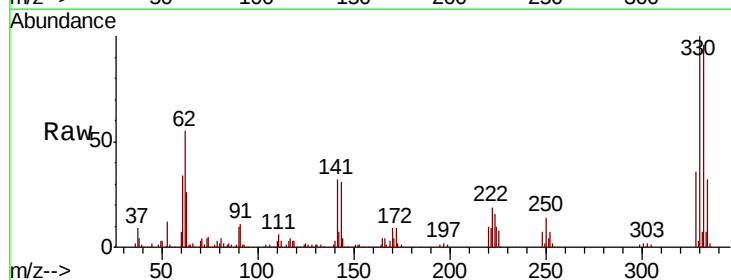
Instrument :  
 BNA\_F  
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Tot Ion:164 Resp: 300749  
 Ion Ratio Lower Upper  
 164 100  
 162 101.8 86.1 129.1  
 160 46.8 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 190.416 ng  
 RT: 10.85 min Scan# 1447  
 Delta R.T. -0.01 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

Tgt Ion:330 Resp: 571228  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 31.3 29.9 44.9

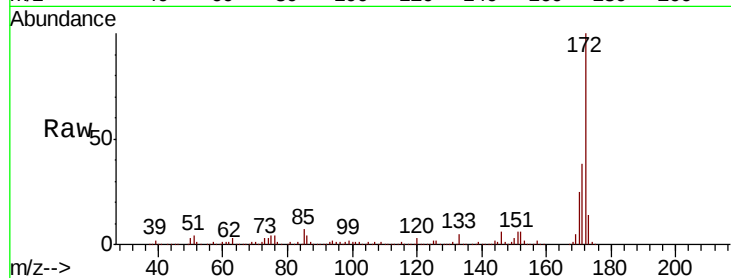




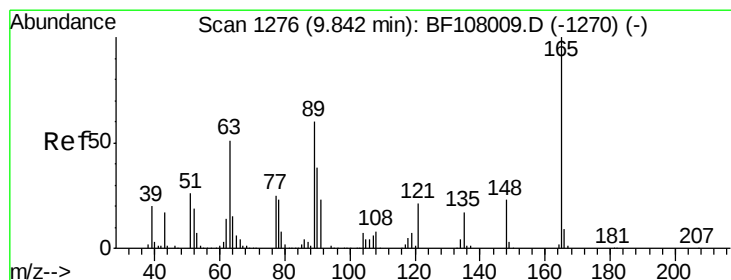
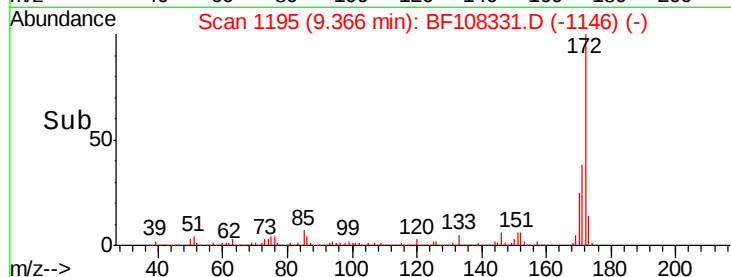
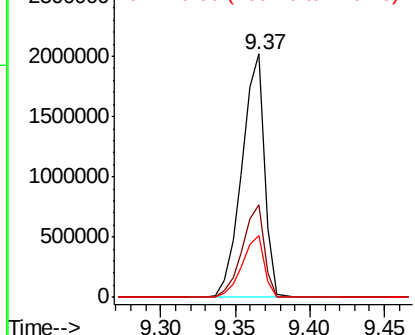
#44  
 2-Fluorobiphenyl  
 Concen: 113.966 ng  
 RT: 9.37 min Scan# 1195  
 Delta R.T. -0.01 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

Instrument :  
 BNA\_F  
 ClientSampled :  
 RT2286

Tot Ion:172 Resp: 2134893  
 Ion Ratio Lower Upper  
 172 100  
 171 38.1 29.7 44.5  
 170 25.3 19.6 29.4

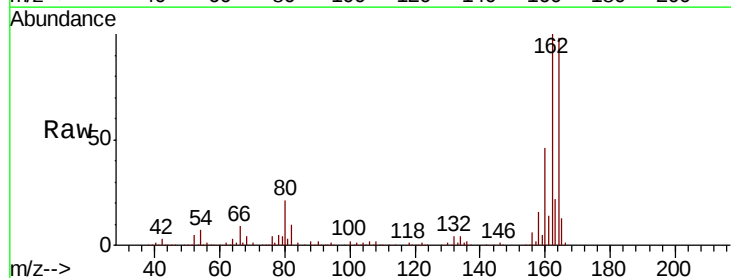


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

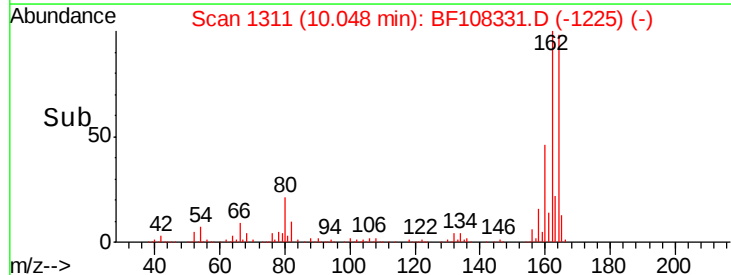
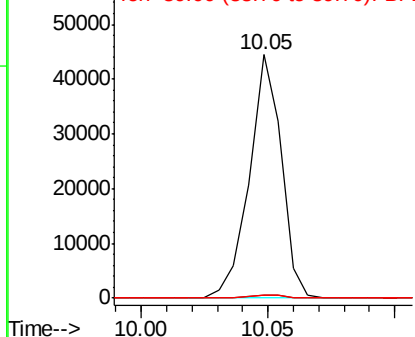


#50  
 2,6-Dinitrotoluene  
 Concen: 8.910 ng  
 RT: 10.05 min Scan# 1311  
 Delta R.T. 0.21 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

Tgt Ion:165 Resp: 39055  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 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

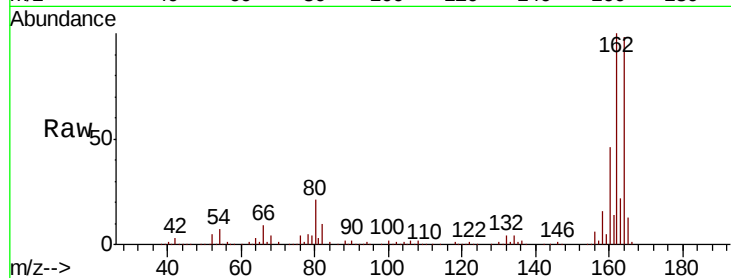




#56  
 2,4-Dinitrotoluene  
 Concen: 6.922 ng  
 RT: 10.05 min Scan# 1311  
 Delta R.T. -0.20 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RT2286

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.4  | 54.6# |
| 89      | 1.5   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



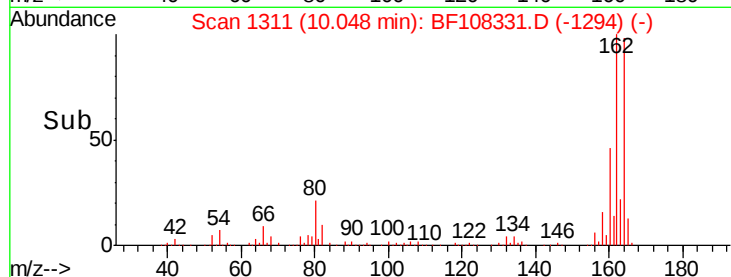
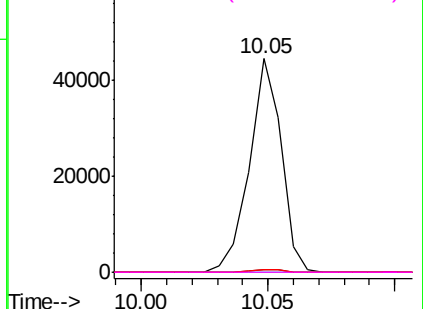
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

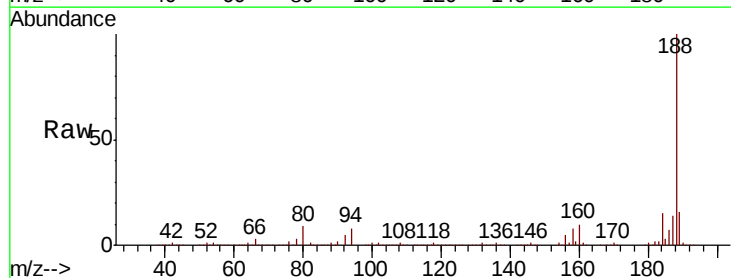
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.55 min Scan# 1566  
 Delta R.T. -0.01 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.3   | 8.5   | 12.7# |
| 80      | 9.3   | 9.2   | 13.8  |

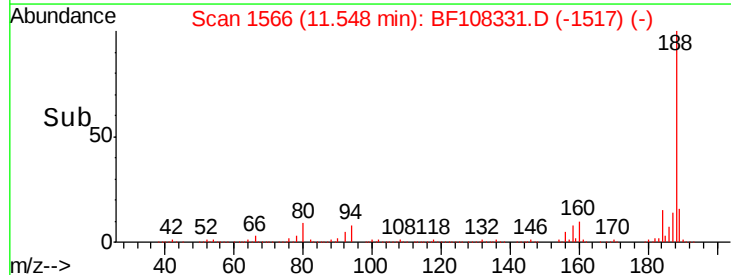
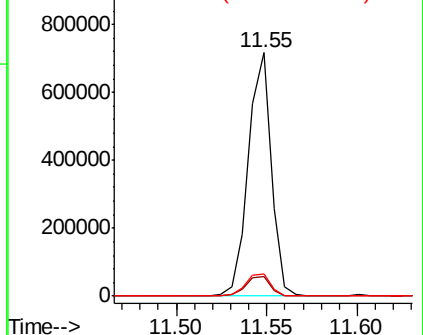


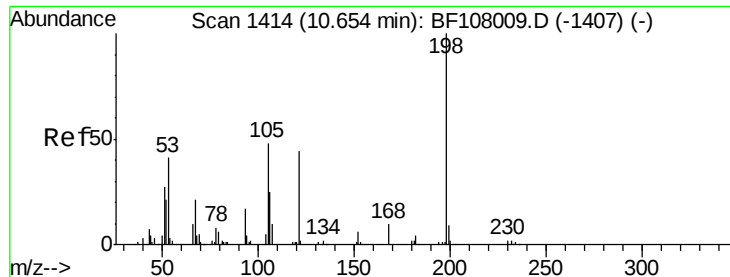
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

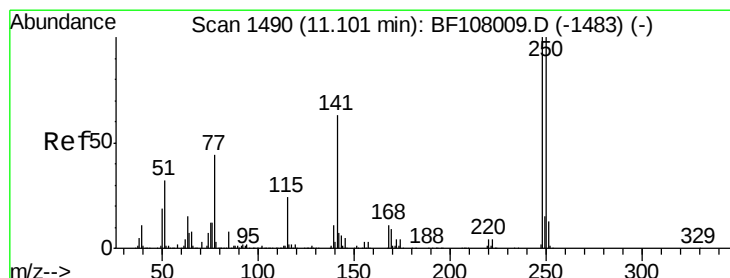
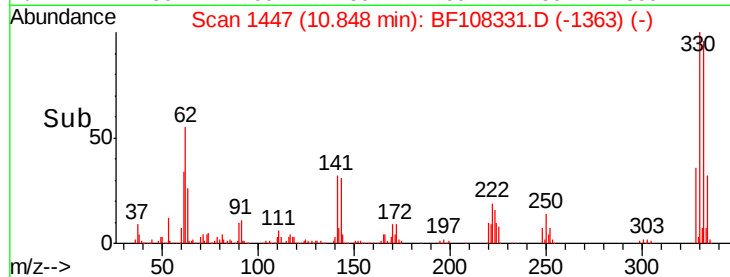
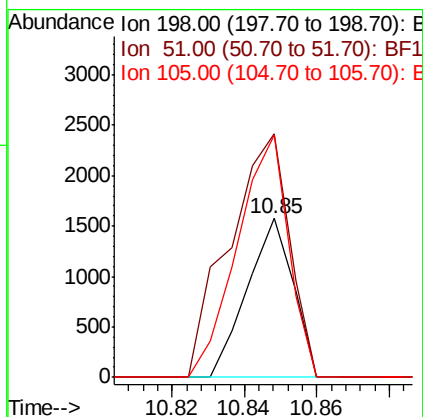
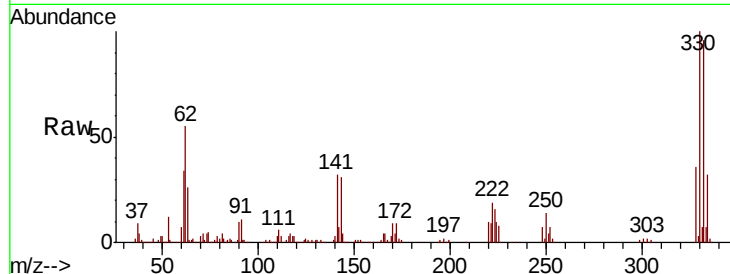




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.874 ng  
 RT: 10.85 min Scan# 1447  
 Delta R.T. 0.20 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

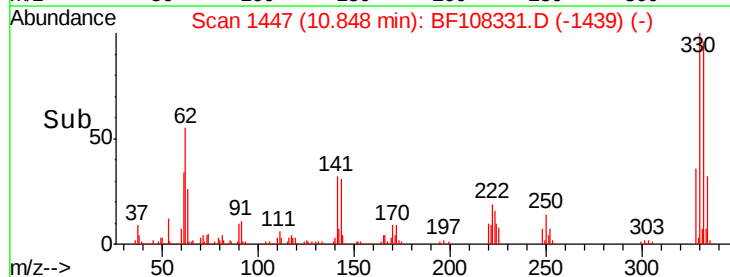
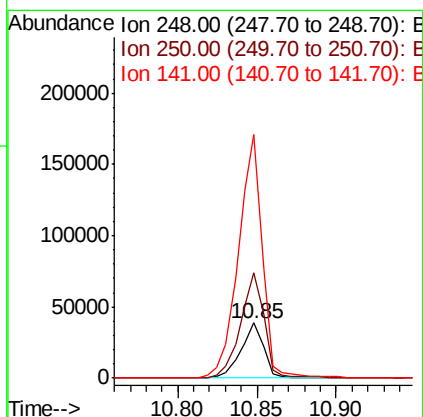
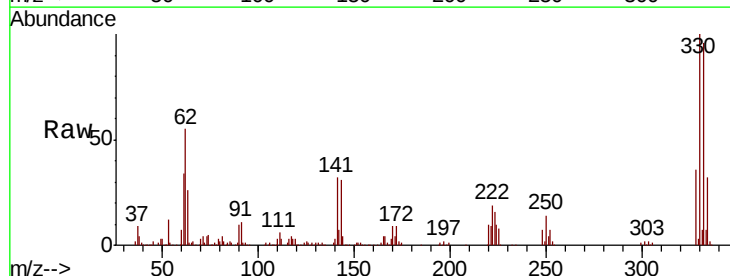
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RT2286

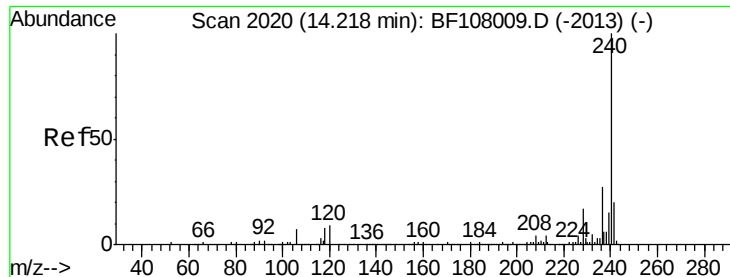
Tot Ion:198 Resp: 1382  
 Ion Ratio Lower Upper  
 198 100  
 51 153.6 37.7 77.7#  
 105 153.1 36.3 76.3#



#66  
 4-Bromophenyl-phenylether  
 Concen: 5.501 ng  
 RT: 10.85 min Scan# 1447  
 Delta R.T. -0.25 min  
 Lab File: BF108331.D  
 Acq: 21 Aug 2018 11:43

Tgt Ion:248 Resp: 37920  
 Ion Ratio Lower Upper  
 248 100  
 250 190.6 76.9 115.3#  
 141 441.5 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108331.D

Acq: 21 Aug 2018 11:43

Instrument :

BNA\_F

ClientSampleId :

RT2286

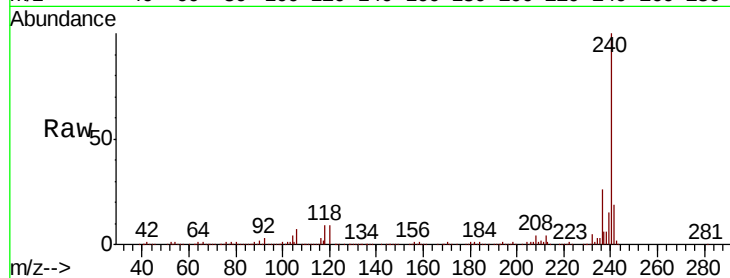
Tot Ion:240 Resp: 499896

Ion Ratio Lower Upper

240 100

120 9.3 9.5 14.3#

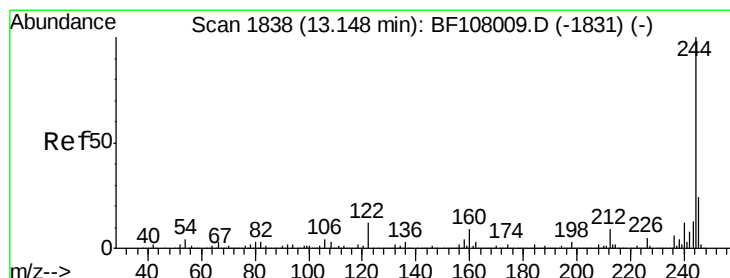
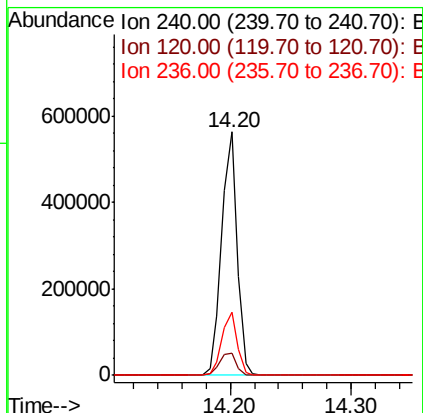
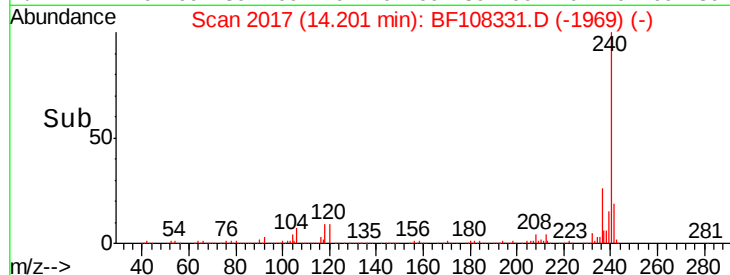
236 25.8 20.7 31.1



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: 129.232 ng

RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF108331.D

Acq: 21 Aug 2018 11:43

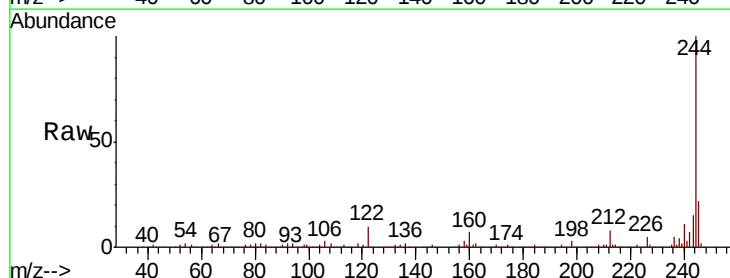
Tgt Ion:244 Resp: 2540848

Ion Ratio Lower Upper

244 100

212 7.8 5.4 8.0

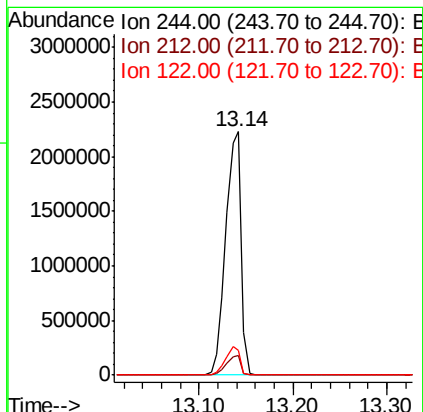
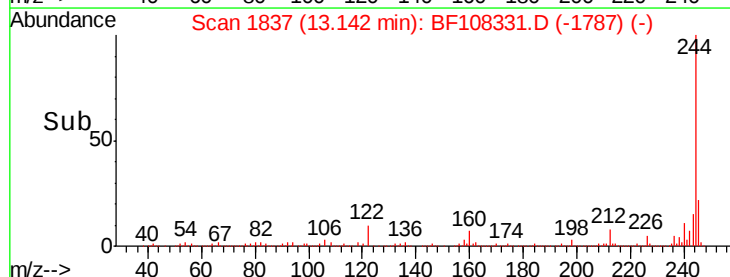
122 9.9 11.0 16.4#

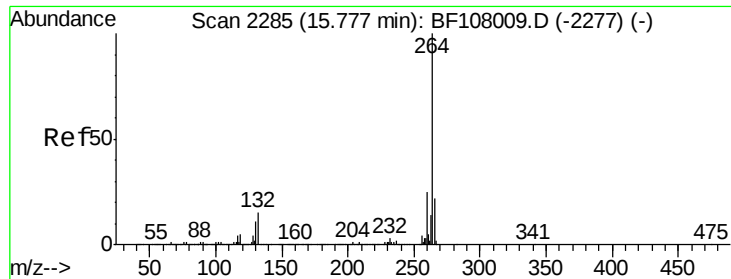


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.75 min Scan# 2281  
Delta R.T. -0.02 min  
Lab File: BF108331.D  
Acq: 21 Aug 2018 11:43

Instrument :  
BNA\_F  
ClientSampleId :  
RT2286

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |

