

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF100318\  
 Data File : BF109564.D  
 Acq On : 3 Oct 2018 23:08  
 Operator : JU/SJ  
 Sample : J5221-06  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 100118-DBRI-E-D-S

Quant Time: Oct 04 02:20:07 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF092218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 22 13:32:18 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.70  | 152  | 86498    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.99  | 136  | 298651   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.73  | 164  | 116990   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.21 | 188  | 221860   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.84 | 240  | 215416   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.24 | 264  | 145397   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.32  | 112  | 224638   | 42.78  | ng    | 0.00     |
| 7) Phenol-d6                | 6.35  | 99   | 172427   | 25.73  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 562813   | 111.25 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 121700   | 105.53 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 930610   | 119.97 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 951530   | 108.40 | ng    | 0.00     |

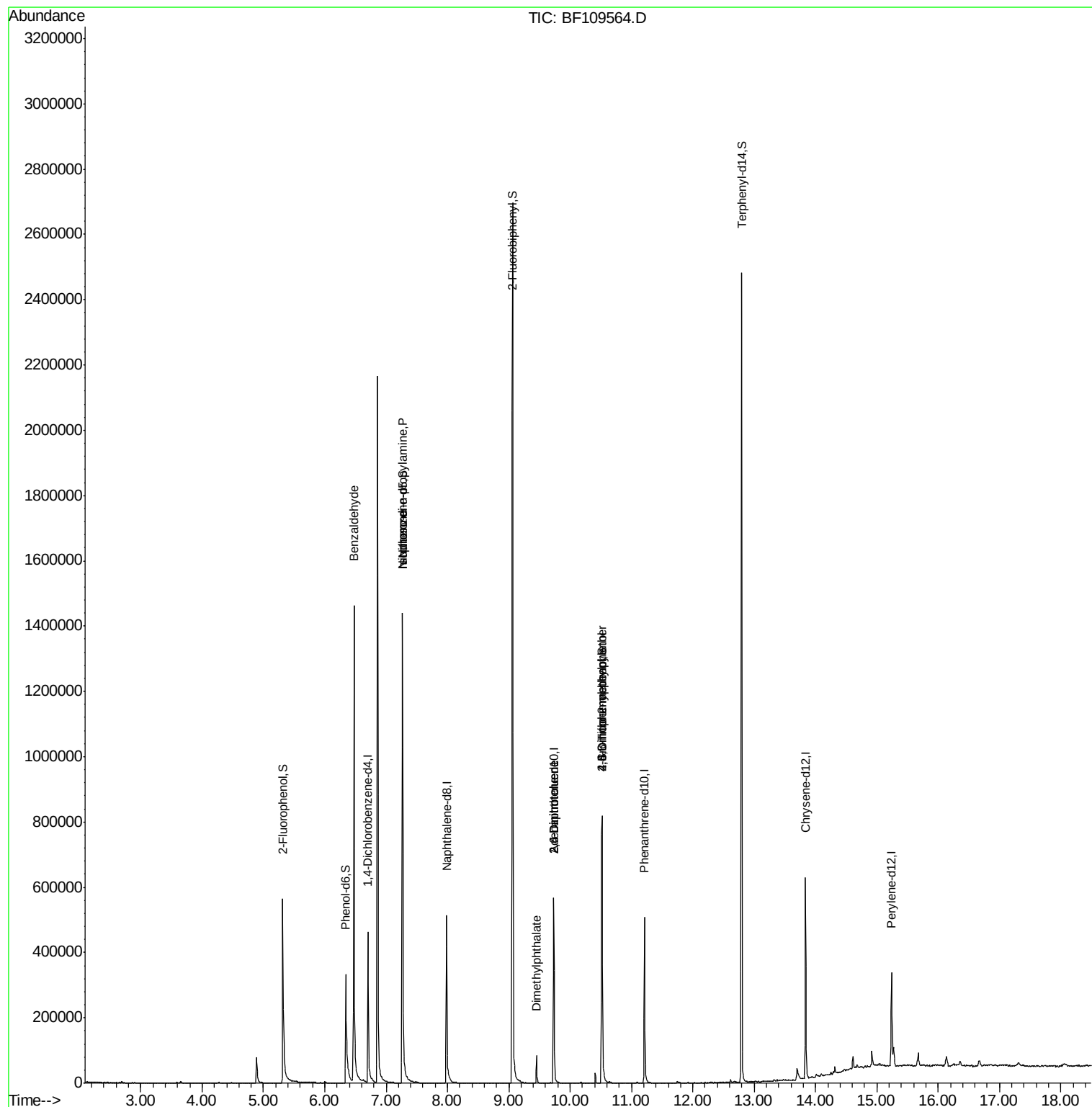
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.47  | 77   | 9645     | 2.240  | ng    | # 75   |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 74616    | 16.993 | ng    | # 78   |
| 25) Isophorone                 | 7.27  | 82   | 545175   | 59.842 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.45  | 163  | 40687    | 4.782  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 9.73  | 165  | 14405    | 8.548  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 14405    | 6.756  | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.52 | 198  | 112      | 6.629  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.52 | 248  | 7399     | 3.003  | ng    | # 1    |

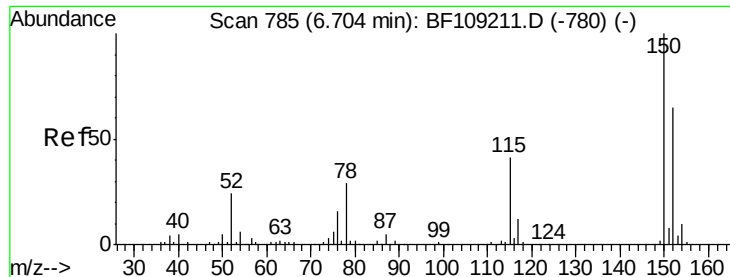
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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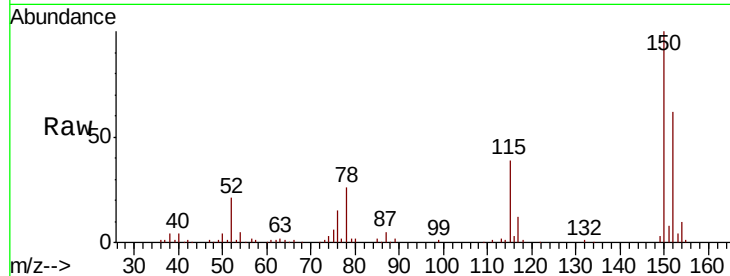




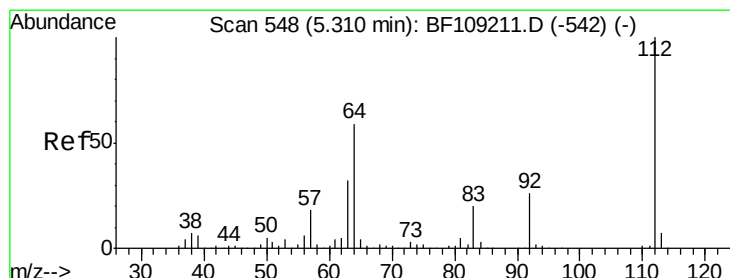
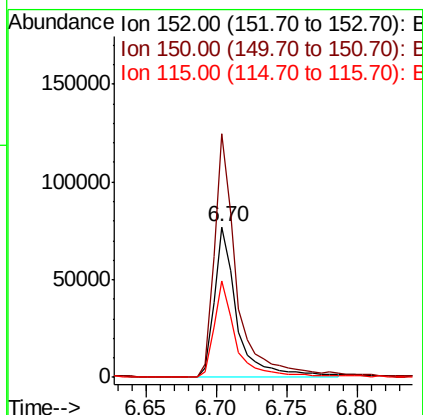
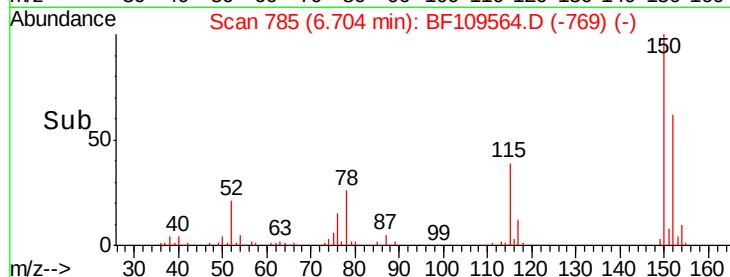
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.70 min Scan# 785  
 Delta R.T. -0.01 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

Instrument :  
 BNA\_F  
 ClientSampleId :  
 100118-DBRI-E-D-S

Tgt Ion:152 Resp: 86498  
 Ion Ratio Lower Upper  
 152 100  
 150 161.8 124.6 186.8  
 115 63.8 50.1 75.1

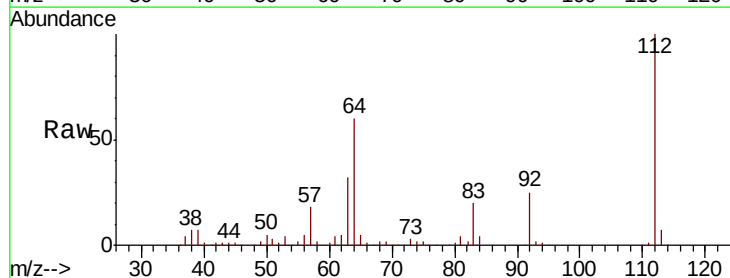


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

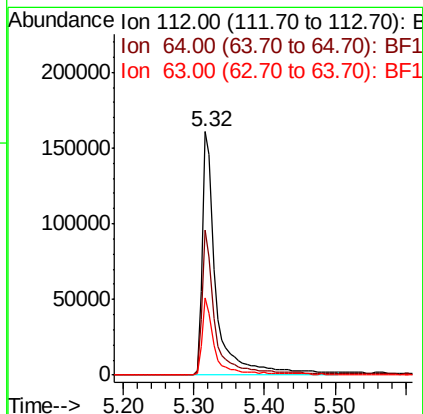
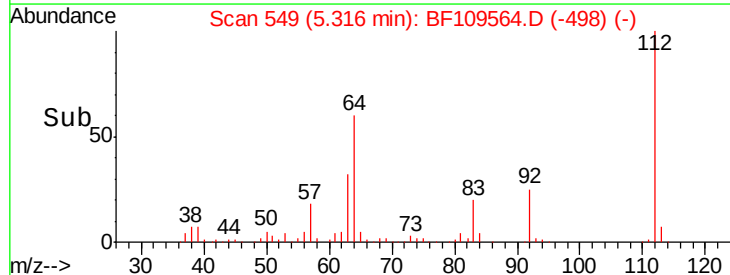


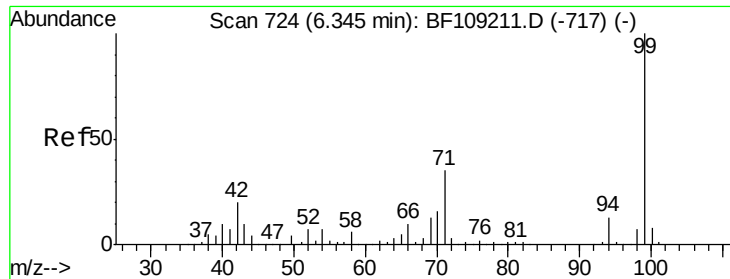
#5  
 2-Fluorophenol  
 Concen: 42.775 ng  
 RT: 5.32 min Scan# 549  
 Delta R.T. -0.00 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

Tgt Ion:112 Resp: 224638  
 Ion Ratio Lower Upper  
 112 100  
 64 59.5 47.9 71.9  
 63 31.7 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: 25.731 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109564.D

Acq: 3 Oct 2018 23:08

Instrument :

BNA\_F

ClientSampleId :

100118-DBRI-E-D-S

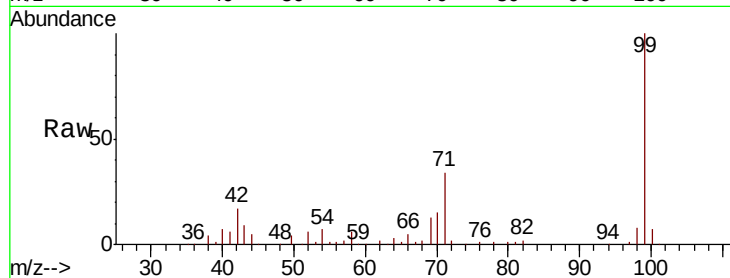
Tgt Ion: 99 Resp: 172427

Ion Ratio Lower Upper

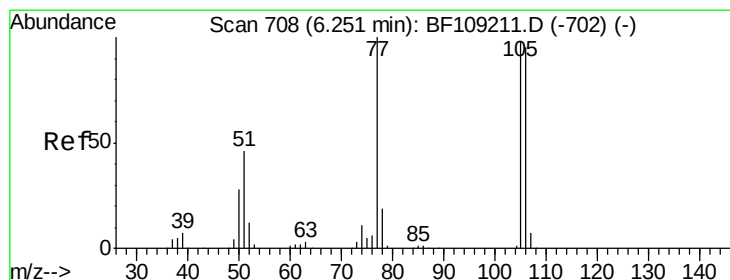
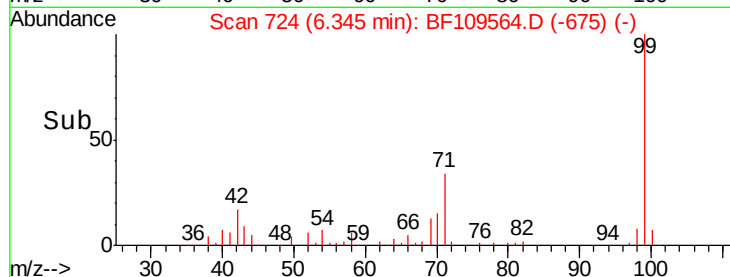
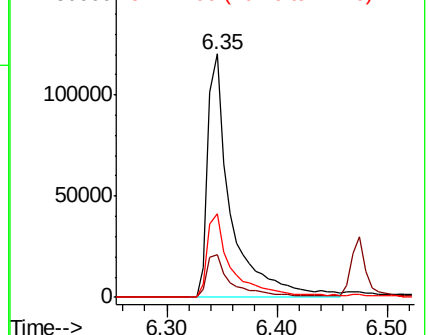
99 100

42 17.4 14.5 21.7

71 34.3 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



#9

Benzaldehyde

Concen: 2.240 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.22 min

Lab File: BF109564.D

Acq: 3 Oct 2018 23:08

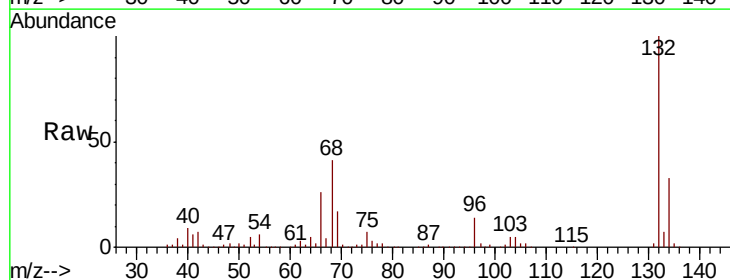
Tgt Ion: 77 Resp: 9645

Ion Ratio Lower Upper

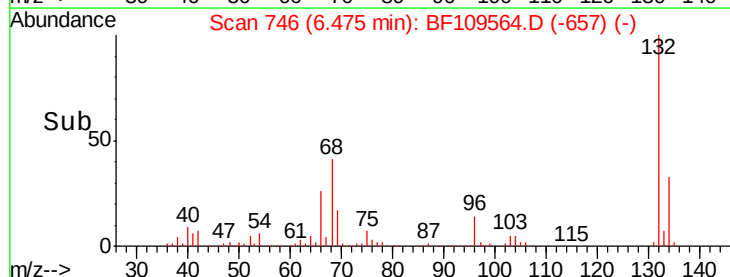
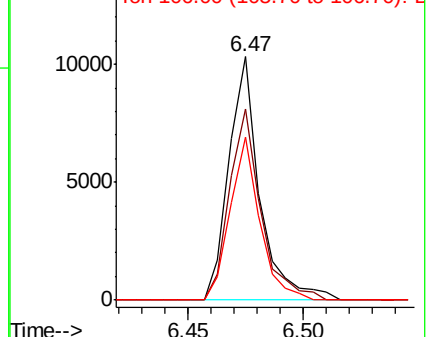
77 100

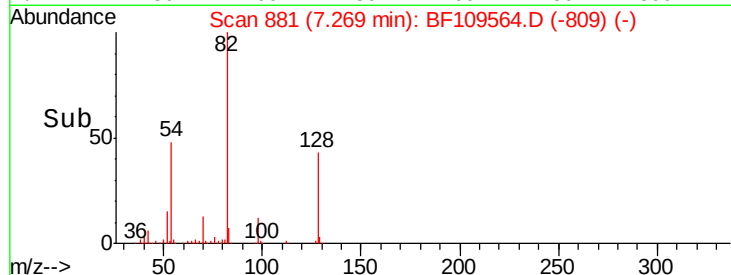
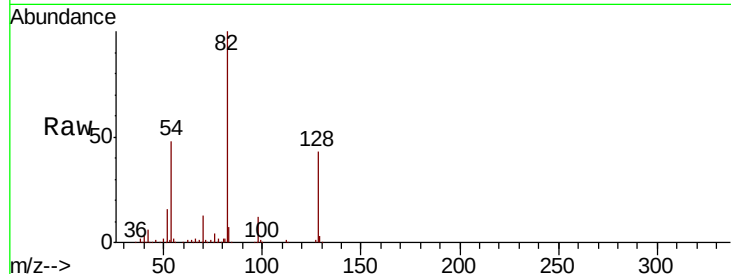
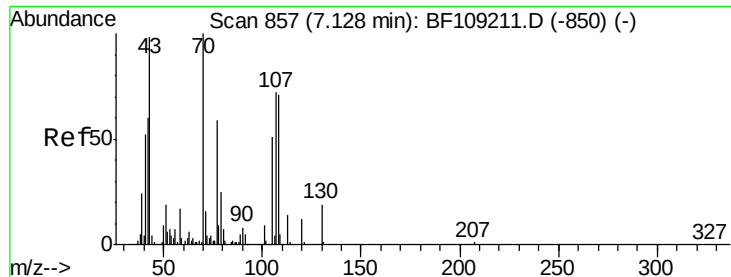
105 78.4 81.1 121.1#

106 67.1 74.5 114.5#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

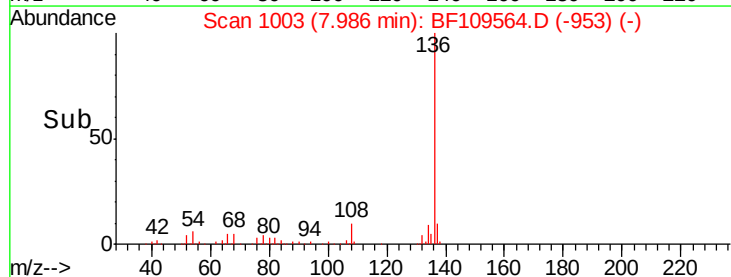
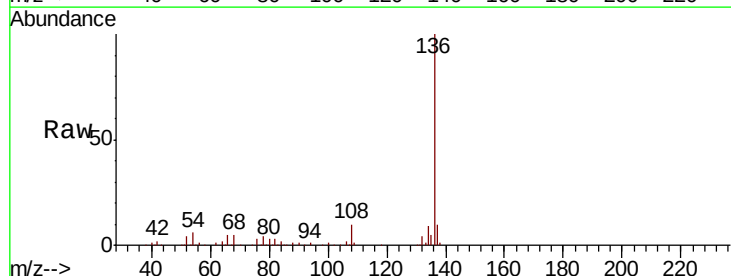
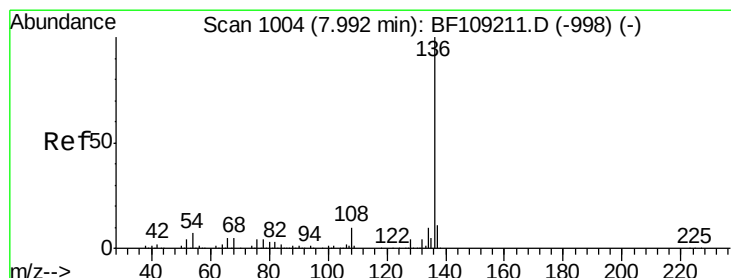
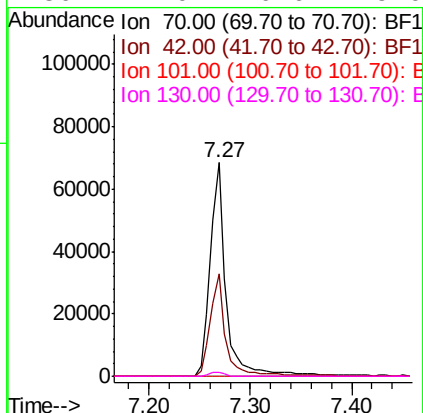




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.993 ng  
RT: 7.27 min Scan# 881  
Delta R.T. 0.12 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

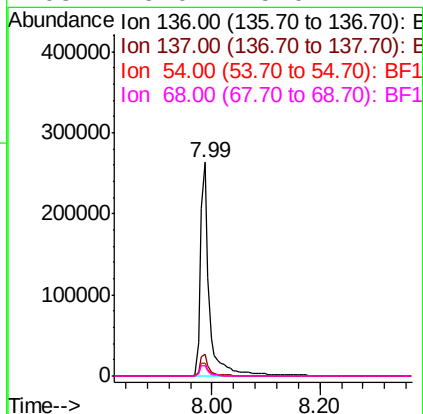
Instrument :  
BNA\_F  
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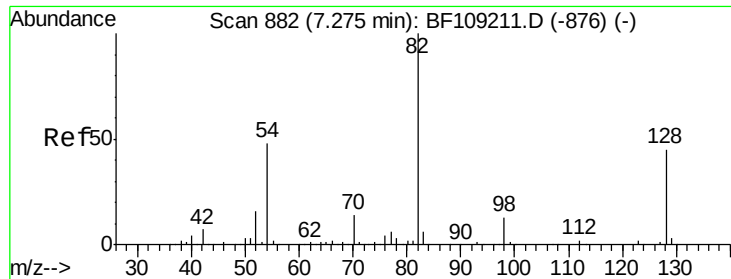
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 74616 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 48.1  | 47.5  | 71.3  |
| 101      | 0.0   | 7.4   | 11.2# |
| 130      | 2.0   | 16.6  | 25.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.99 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 298651 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 8.9   | 13.3   |
| 54       | 6.2   | 6.6   | 9.8#   |
| 68       | 5.0   | 5.0   | 7.4    |

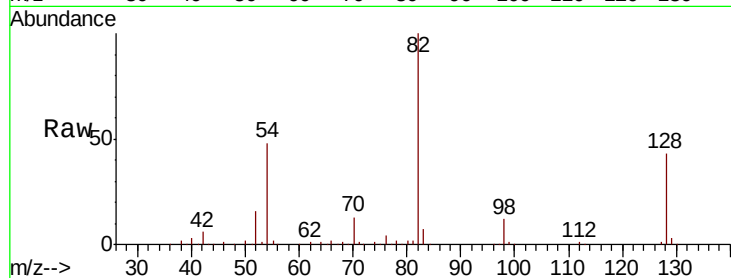




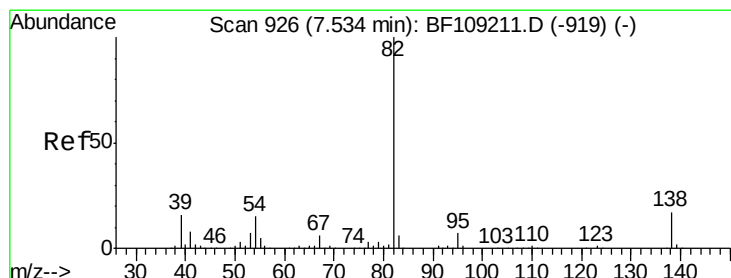
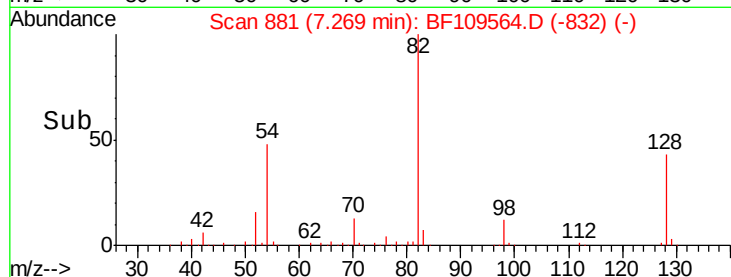
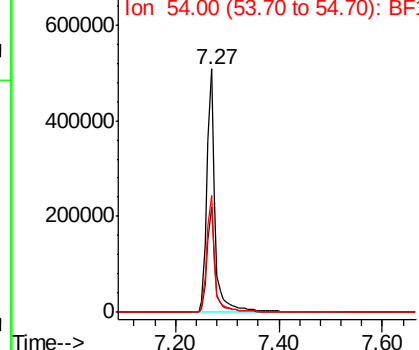
#23  
Nitrobenzene-d5  
Concen: 111.246 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.01 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Instrument :  
BNA\_F  
ClientSampleId :  
100118-DBRI-E-D-S

Tgt Ion: 82 Resp: 562813  
Ion Ratio Lower Upper  
82 100  
128 43.3 36.1 54.1  
54 47.9 41.4 62.2

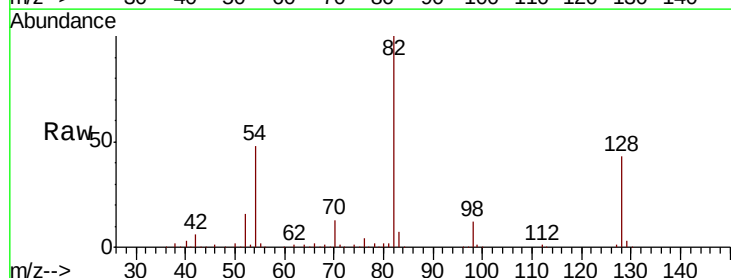


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

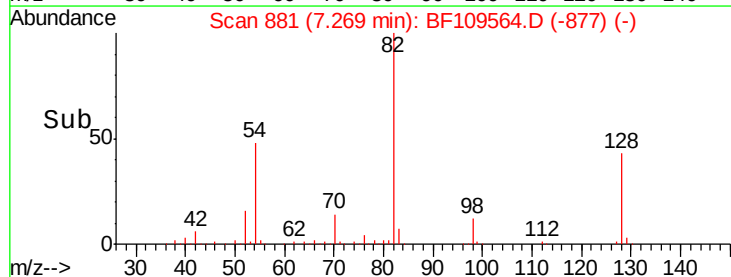
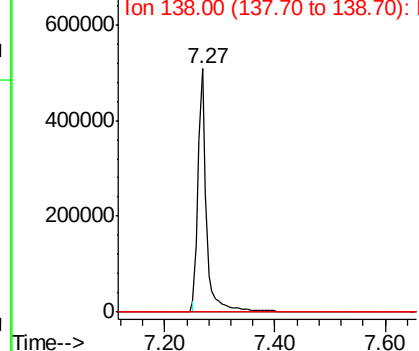


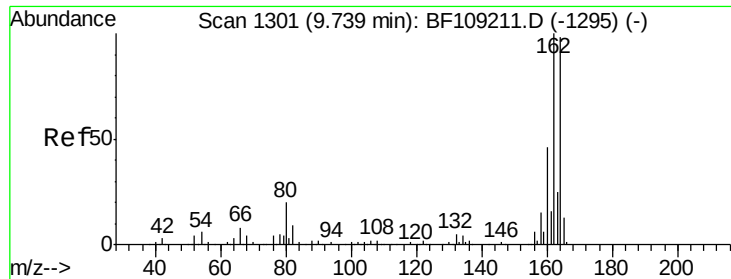
#25  
Isophorone  
Concen: 59.842 ng  
RT: 7.27 min Scan# 881  
Delta R.T. -0.28 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Tgt Ion: 82 Resp: 545175  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



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

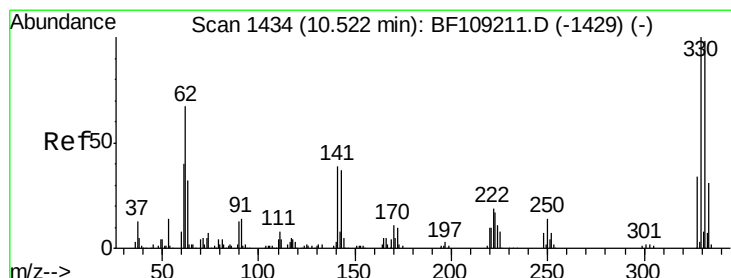
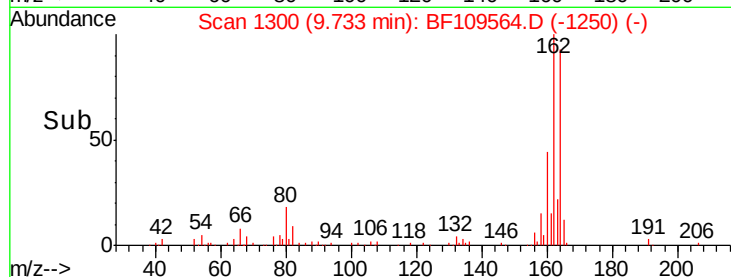
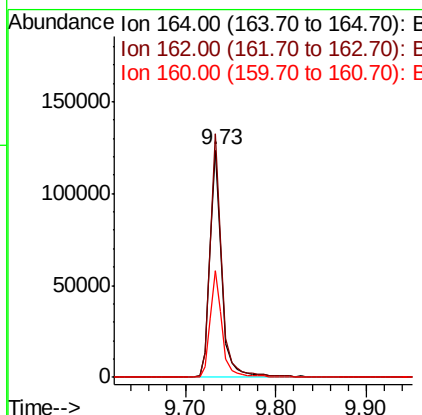
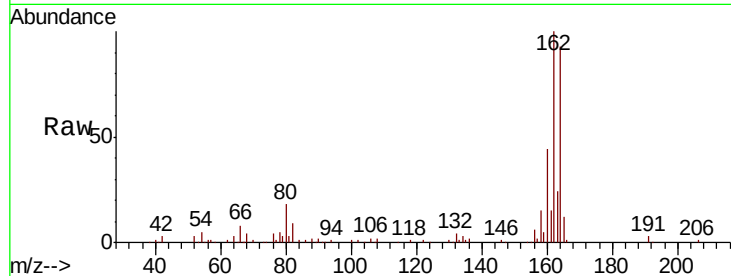




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

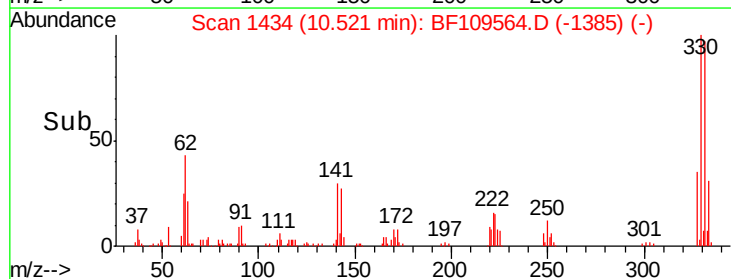
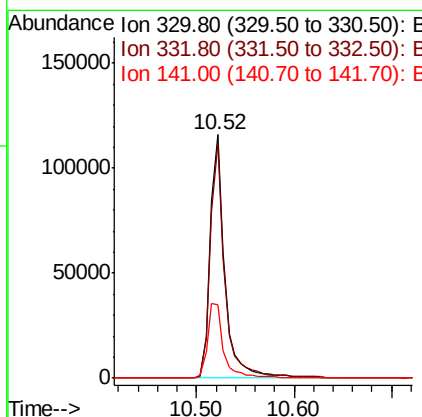
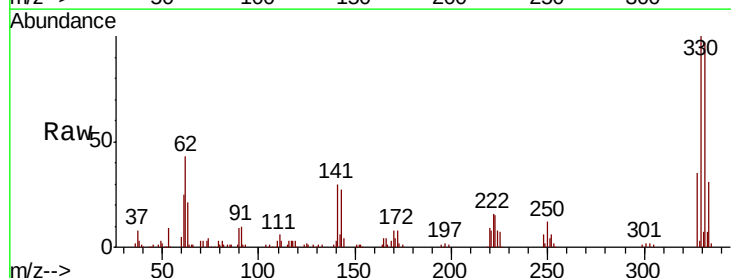
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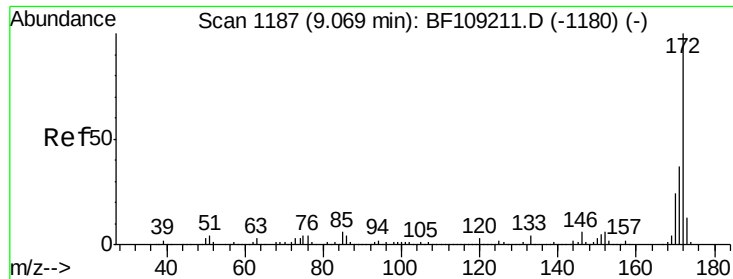
Tgt Ion:164 Resp: 116990  
 Ion Ratio Lower Upper  
 164 100  
 162 107.1 86.1 129.1  
 160 46.8 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 105.525 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

Tgt Ion:330 Resp: 121700  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.0 115.6  
 141 33.5 29.9 44.9

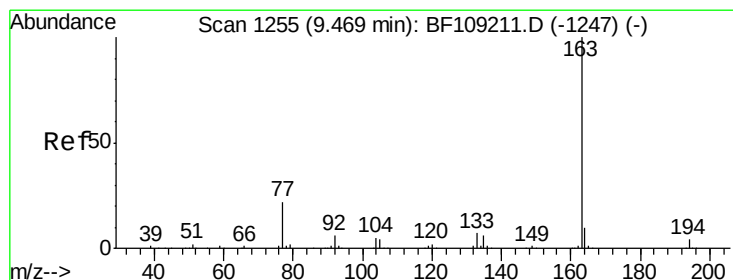
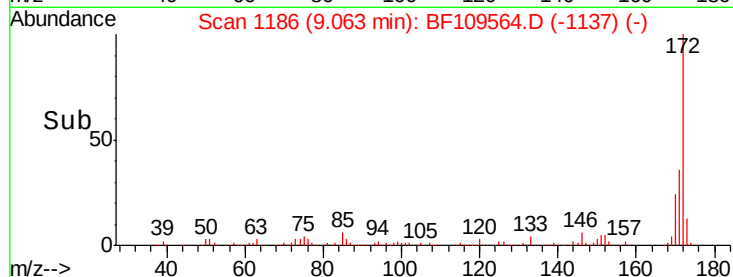
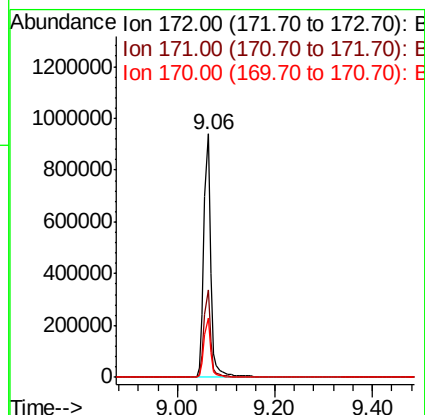
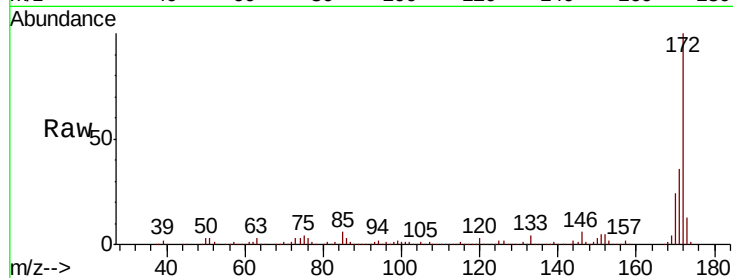




#44  
2-Fluorobiphenyl  
Concen: 119.971 ng  
RT: 9.06 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

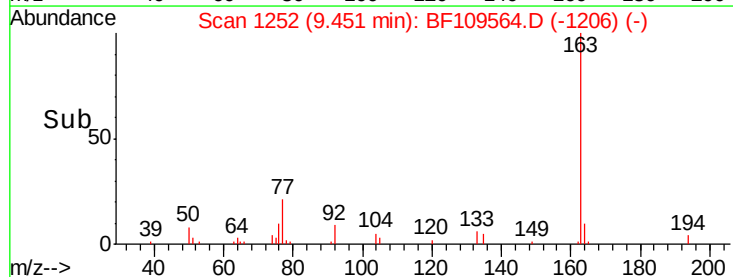
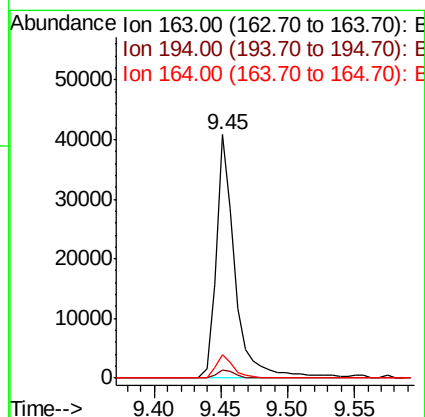
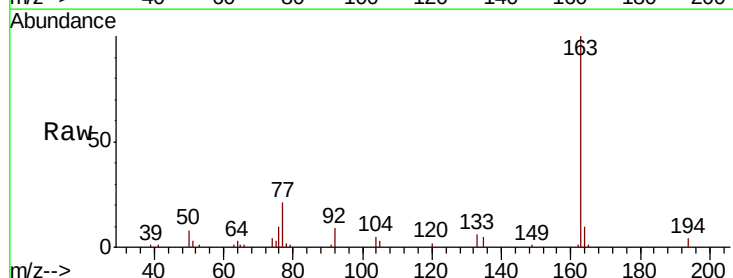
Instrument :  
BNA\_F  
ClientSampleId :  
100118-DBRI-E-D-S

Tgt Ion:172 Resp: 930610  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.7 44.5  
170 24.2 19.6 29.4

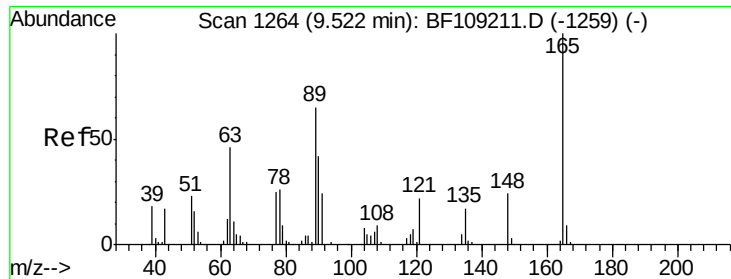


#49  
Dimethylphthalate  
Concen: 4.782 ng  
RT: 9.45 min Scan# 1252  
Delta R.T. -0.03 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Tgt Ion:163 Resp: 40687  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 9.8 8.2 12.2



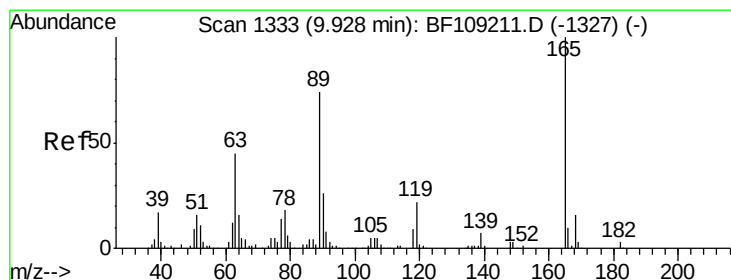
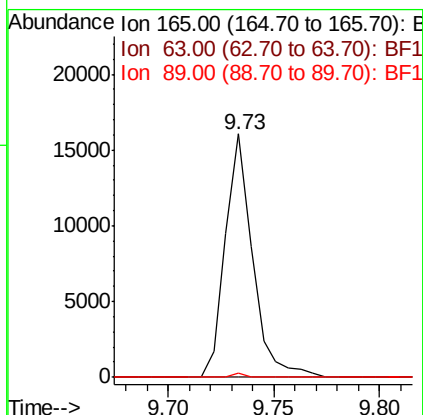
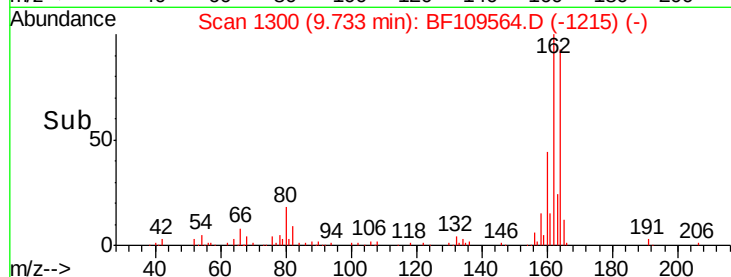
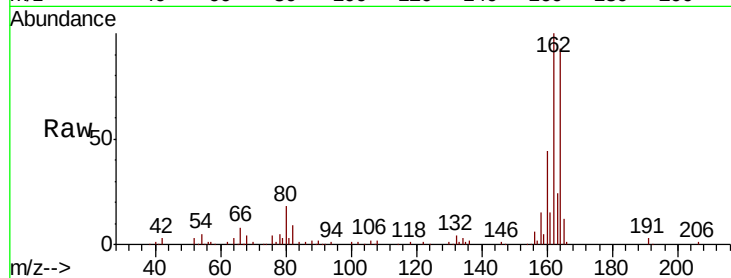




#50  
 2,6-Dinitrotoluene  
 Concen: 8.548 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. 0.20 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

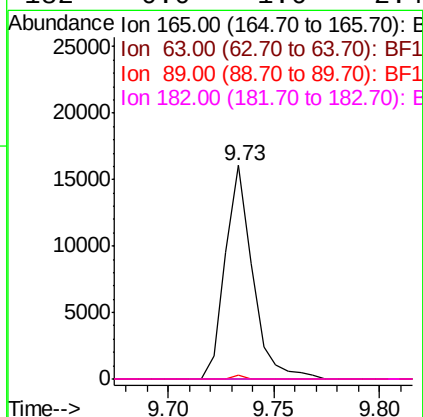
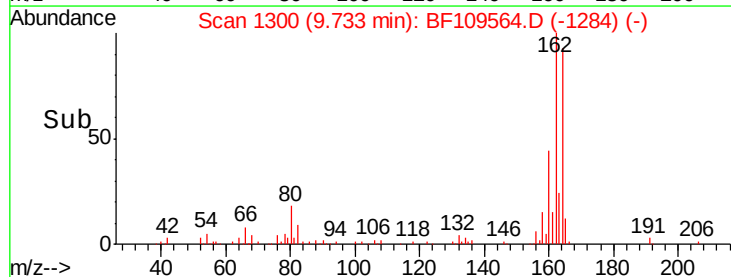
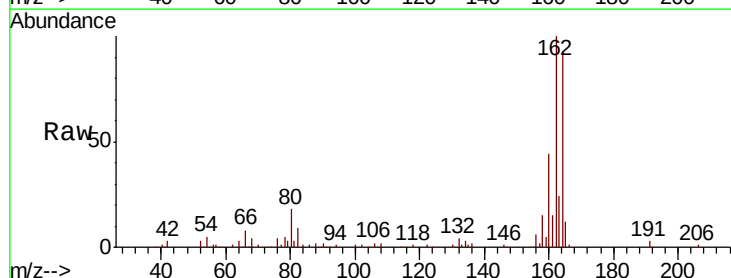
Instrument :  
 BNA\_F  
 ClientSampleId :  
 100118-DBRI-E-D-S

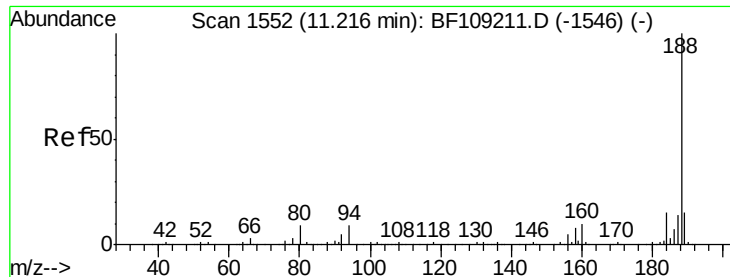
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 1.9   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.756 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.21 min  
 Lab File: BF109564.D  
 Acq: 3 Oct 2018 23:08

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

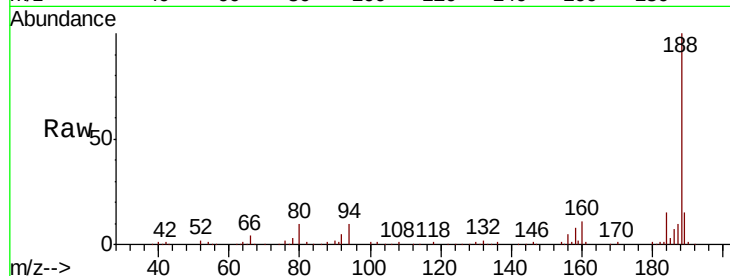




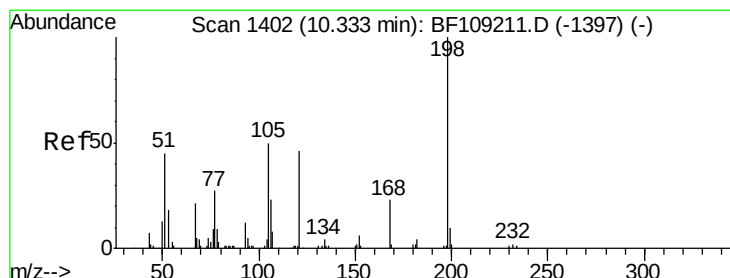
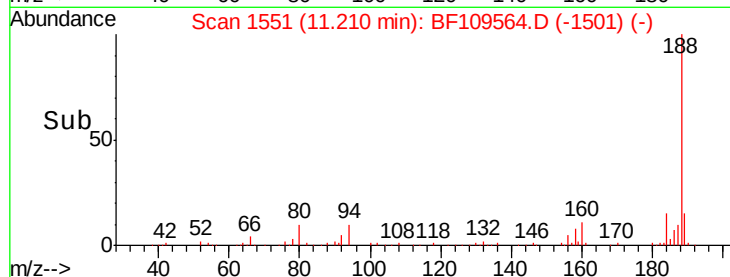
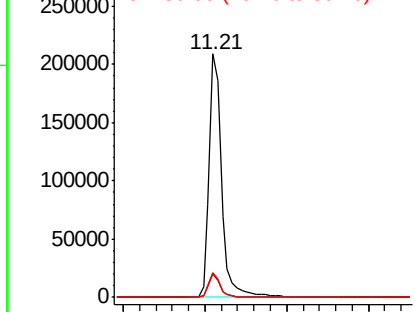
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.01 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Instrument :  
BNA\_F  
ClientSampleId :  
100118-DBRI-E-D-S

Tgt Ion:188 Resp: 221860  
Ion Ratio Lower Upper  
188 100  
94 9.7 8.5 12.7  
80 10.2 9.2 13.8

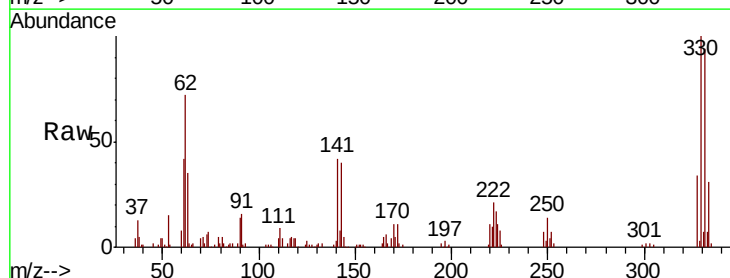


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

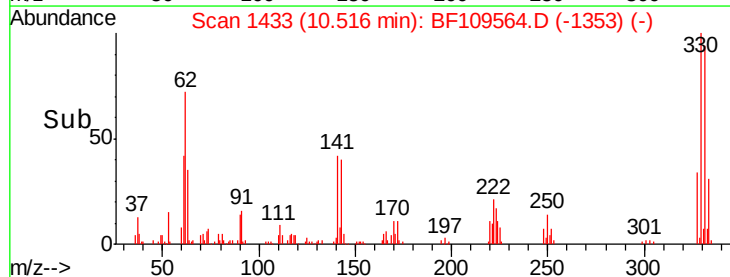
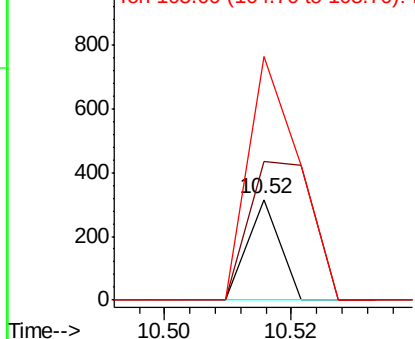


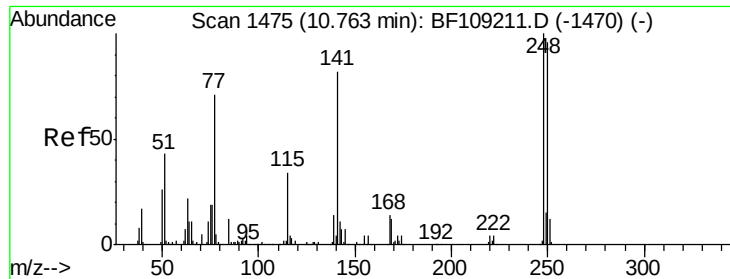
#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.629 ng  
RT: 10.52 min Scan# 1433  
Delta R.T. 0.17 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Tgt Ion:198 Resp: 112  
Ion Ratio Lower Upper  
198 100  
51 138.0 37.7 77.7#  
105 241.8 36.3 76.3#



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

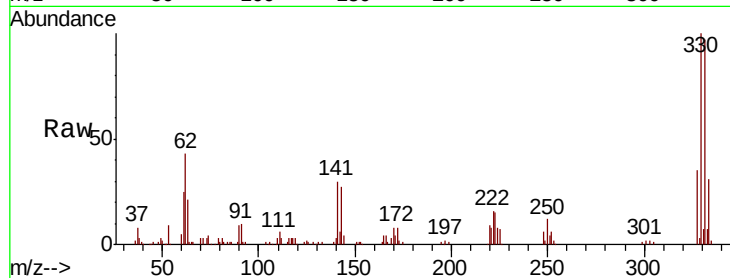




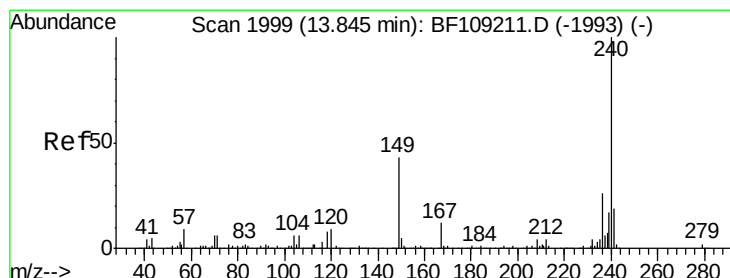
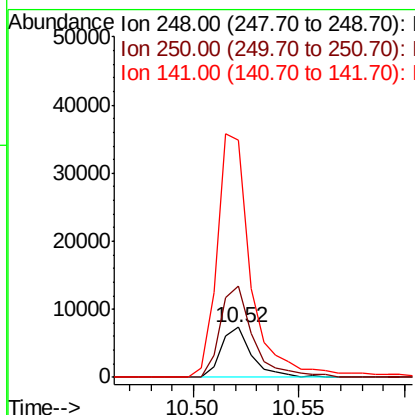
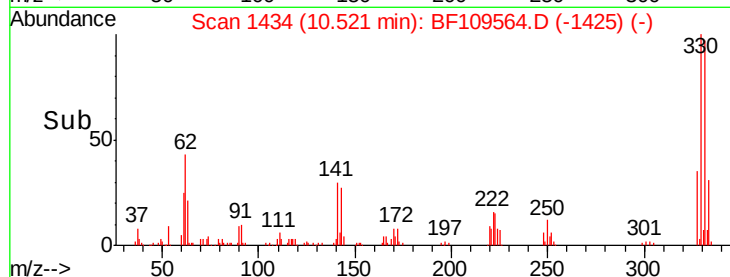
#66  
4-Bromophenyl-phenylether  
Concen: 3.003 ng  
RT: 10.52 min Scan# 1434  
Delta R.T. -0.25 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Instrument :  
BNA\_F  
ClientSampleId :  
100118-DBRI-E-D-S

Tgt Ion:248 Resp: 7399  
Ion Ratio Lower Upper  
248 100  
250 183.6 76.9 115.3#  
141 475.4 74.4 111.6#

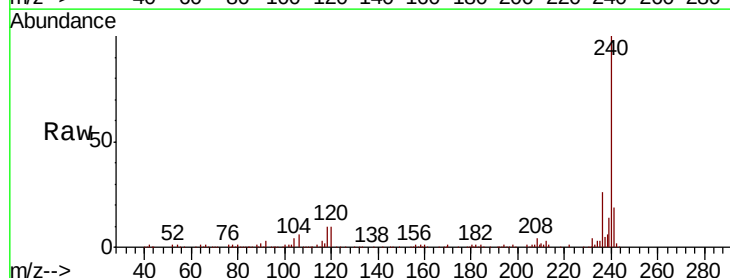


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

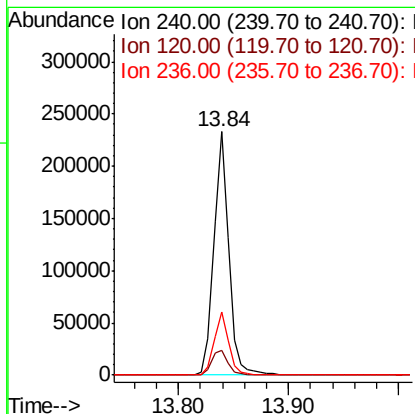
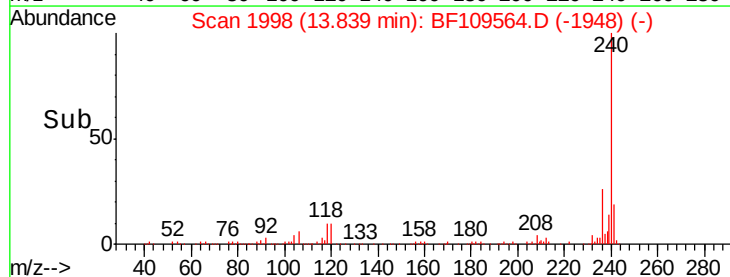


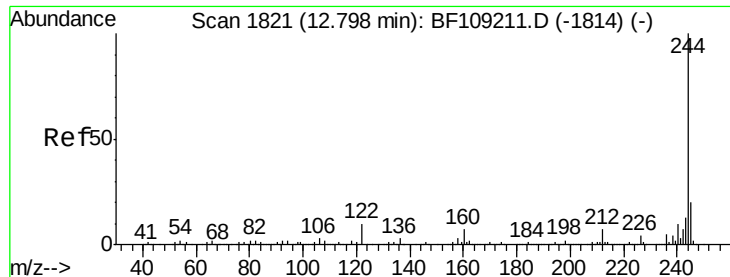
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.84 min Scan# 1998  
Delta R.T. -0.01 min  
Lab File: BF109564.D  
Acq: 3 Oct 2018 23:08

Tgt Ion:240 Resp: 215416  
Ion Ratio Lower Upper  
240 100  
120 10.1 9.5 14.3  
236 26.0 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: 108.405 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF109564.D

Acq: 3 Oct 2018 23:08

Instrument :

BNA\_F

ClientSampleId :

100118-DBRI-E-D-S

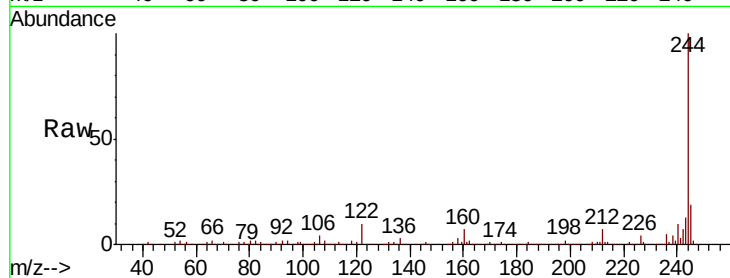
Tgt Ion:244 Resp: 951530

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

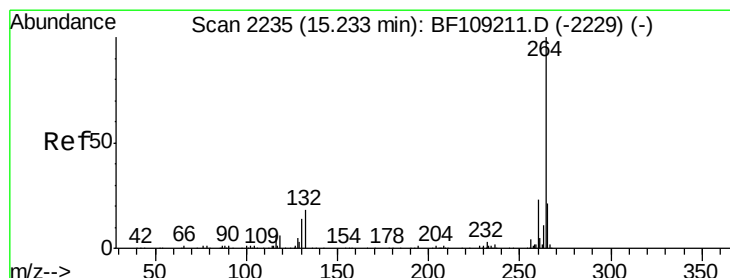
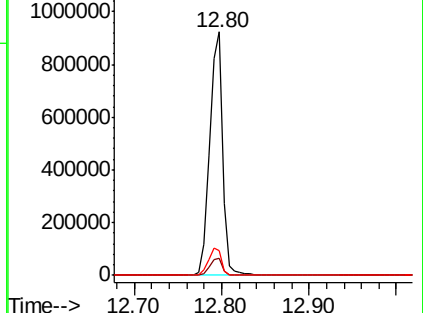
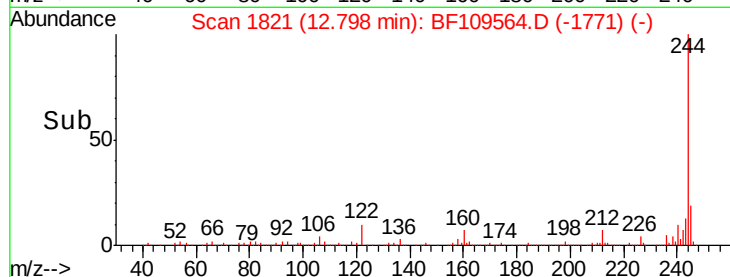
122 10.3 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.24 min Scan# 2237

Delta R.T. 0.01 min

Lab File: BF109564.D

Acq: 3 Oct 2018 23:08

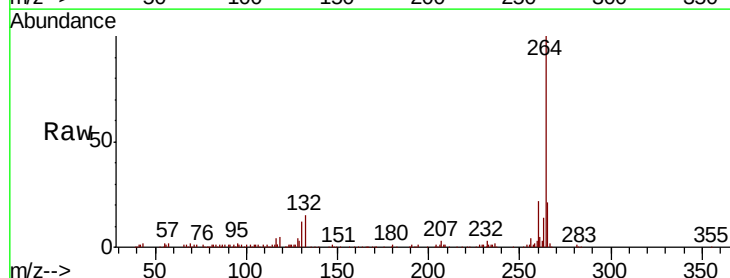
Tgt Ion:264 Resp: 145397

Ion Ratio Lower Upper

264 100

260 22.4 19.2 28.8

265 20.6 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

