

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092218\  
 Data File : BF109222.D  
 Acq On : 22 Sep 2018 15:41  
 Operator : JU/SJ  
 Sample : J4982-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 24 06:48:12 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  | 123842   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.99  | 136  | 478379   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.73  | 164  | 233579   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.21 | 188  | 469529   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.83 | 240  | 385311   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.23 | 264  | 293105   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.31  | 112  | 368509   | 49.01  | ng    | 0.00     |
| 7) Phenol-d6                | 6.33  | 99   | 296317   | 30.88  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 638070   | 78.74  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 252067   | 109.47 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 1124391  | 72.60  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 1247440  | 79.45  | ng    | 0.00     |

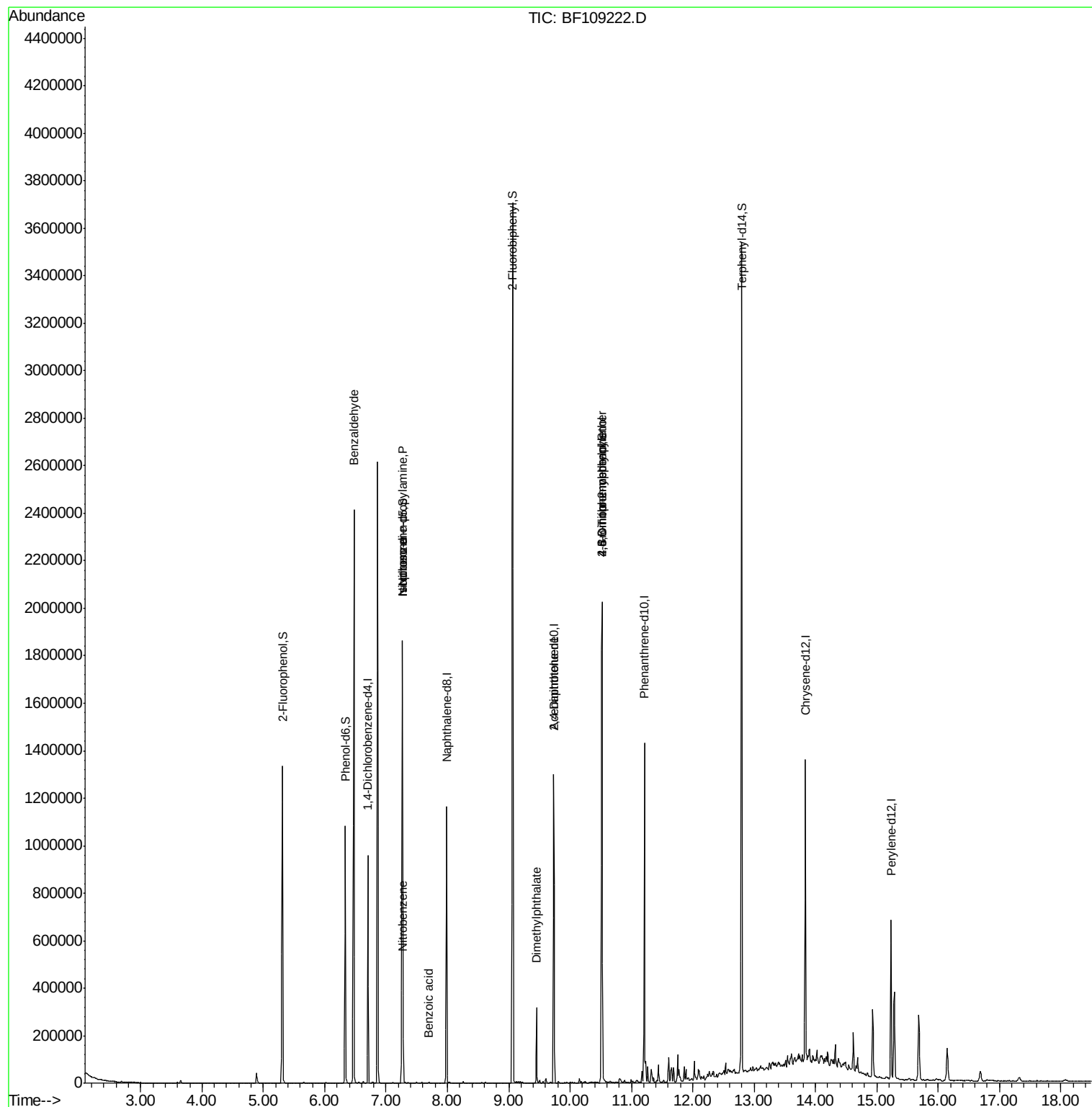
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.47  | 77   | 16061    | 2.606  | ng    | # 72   |
| 19) n-Nitroso-di-n-propylamine | 7.27  | 70   | 86916    | 13.825 | ng    | # 78   |
| 24) Nitrobenzene               | 7.28  | 77   | 39833    | 4.623  | ng    | 94     |
| 25) Isophorone                 | 7.27  | 82   | 579109   | 39.685 | ng    | # 64   |
| 32) Benzoic acid               | 7.69  | 122  | 805      | 6.957  | ng    | # 70   |
| 49) Dimethylphthalate          | 9.45  | 163  | 108226   | 6.370  | ng    | 100    |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 29280    | 6.878  | ng    | # 24   |
| 64) 4,6-Dinitro-2-methylphenol | 10.52 | 198  | 427      | 6.716  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.52 | 248  | 15585    | 2.989  | ng    | # 1    |

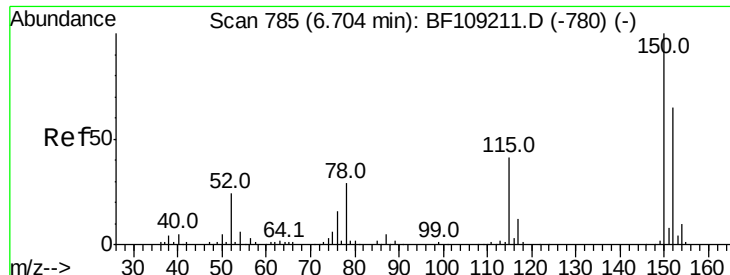
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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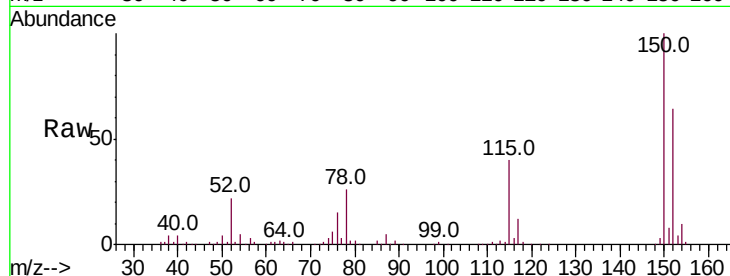


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 124.6 | 186.8 |
| 115     | 62.3  | 50.1  | 75.1  |

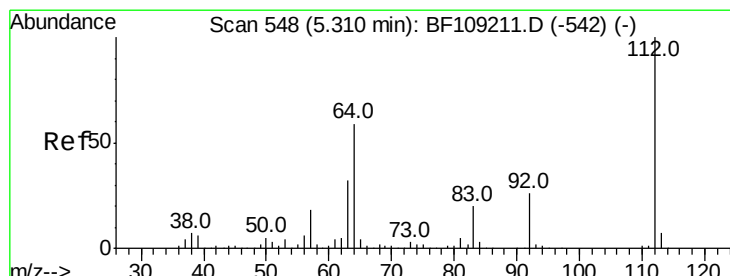
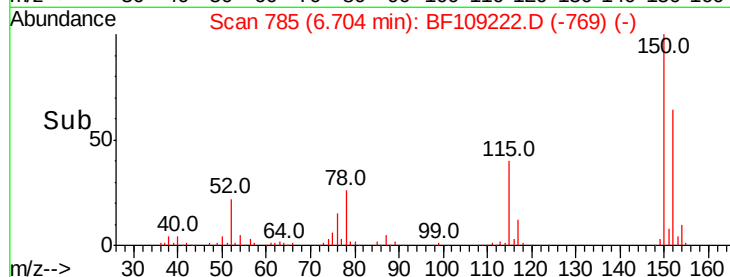
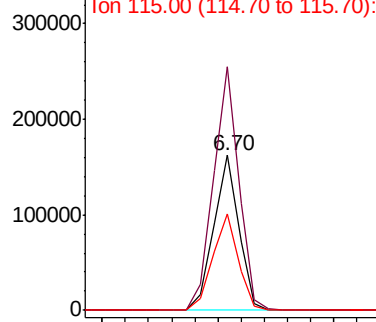


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

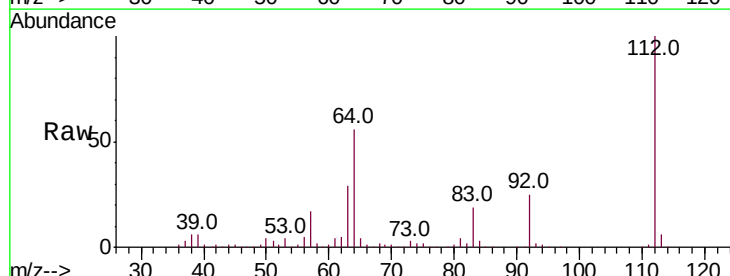
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 49.011 ng  
RT: 5.31 min Scan# 548  
Delta R.T. -0.01 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 47.9  | 71.9  |
| 63      | 29.3  | 23.7  | 35.5  |

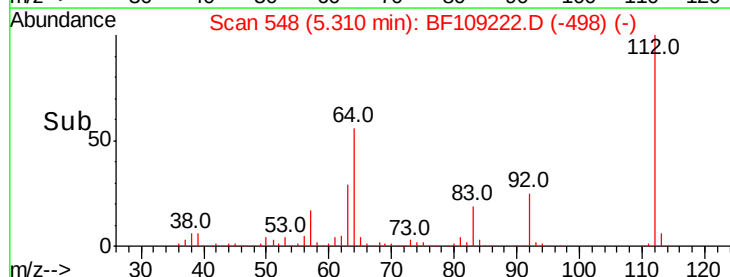
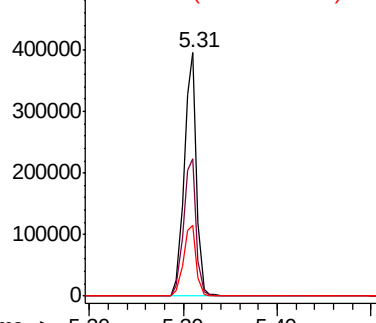


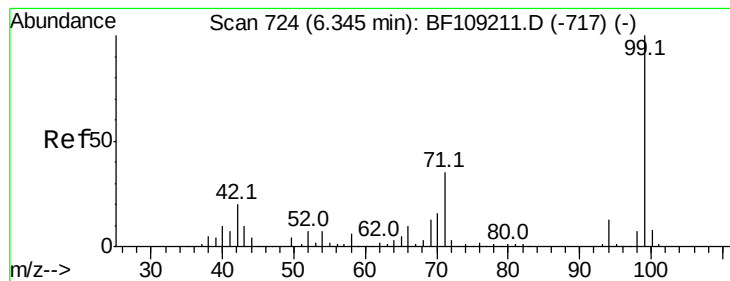
Abundance

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: 30.884 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.02 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

Instrument :

BNA\_F

ClientSampled :

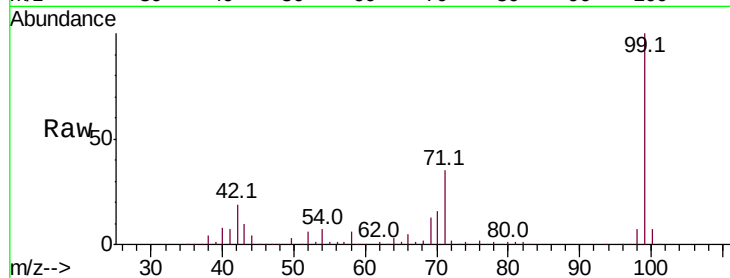
Tot Ion: 99 Resp: 296317

Ion Ratio Lower Upper

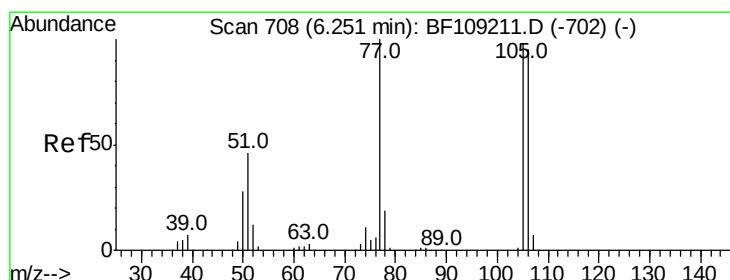
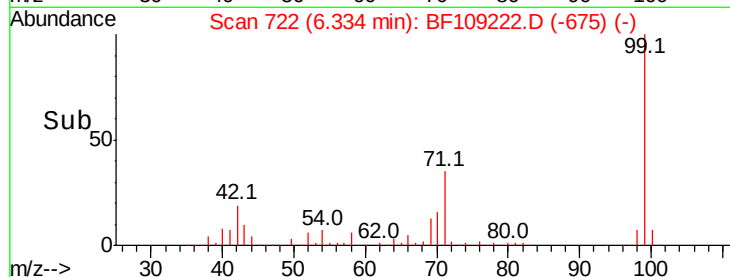
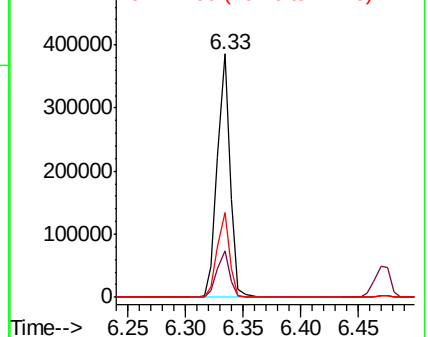
99 100

42 19.2 14.5 21.7

71 34.8 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: 2.606 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.22 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

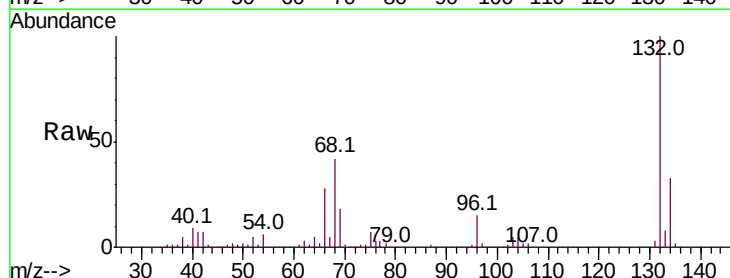
Tgt Ion: 77 Resp: 16061

Ion Ratio Lower Upper

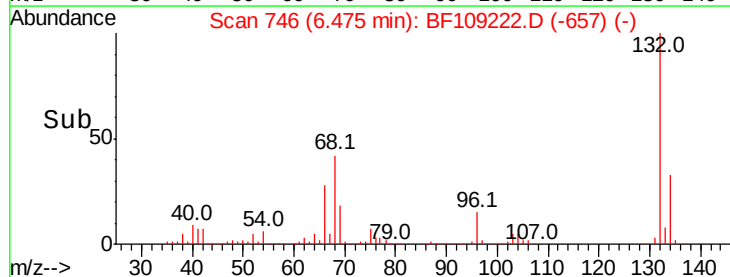
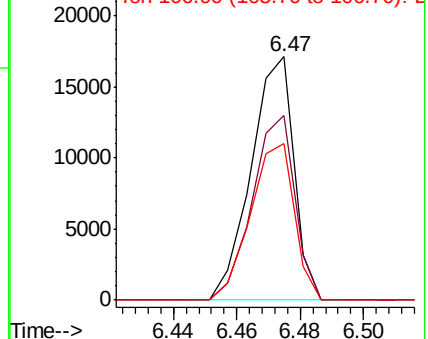
77 100

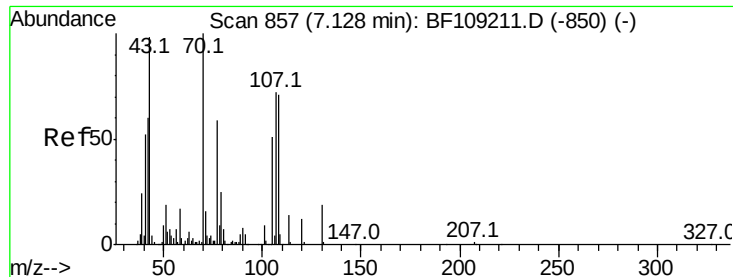
105 75.9 81.1 121.1#

106 64.5 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

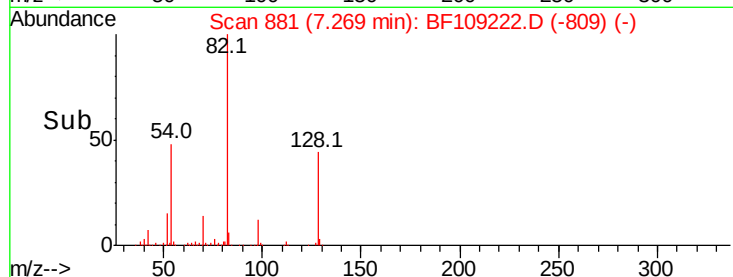
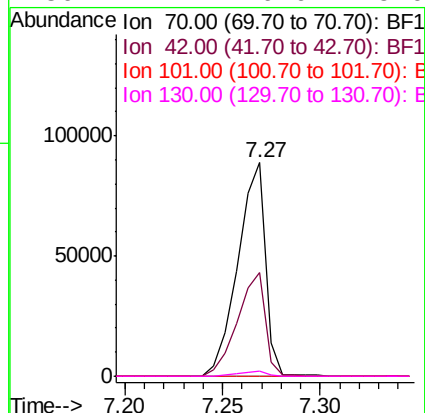
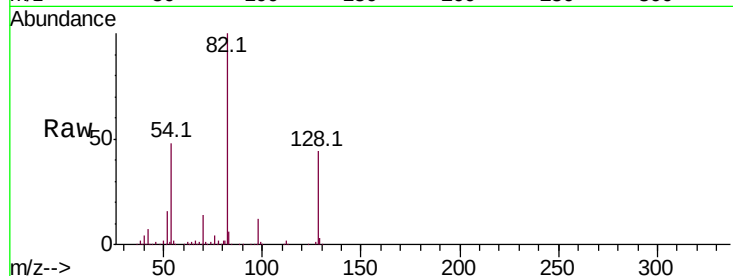




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.825 ng  
RT: 7.27 min Scan# 881  
Delta R.T. 0.12 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

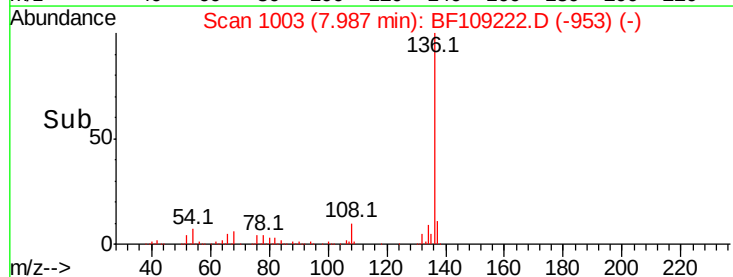
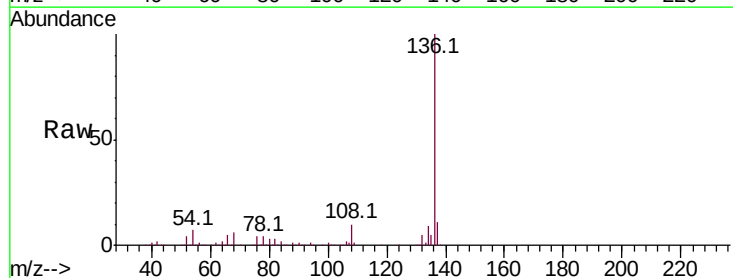
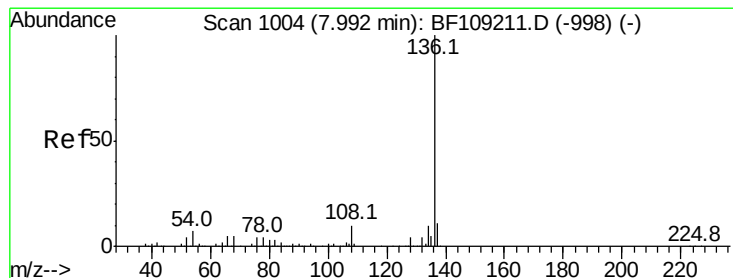
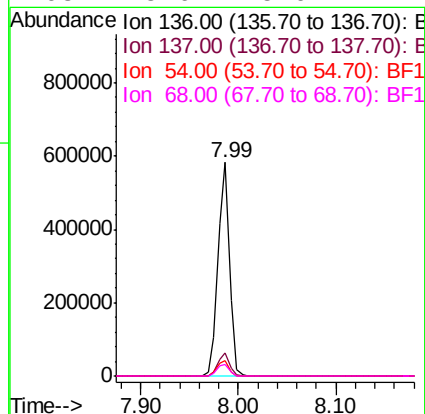
Instrument :  
BNA\_F  
ClientSampleId :

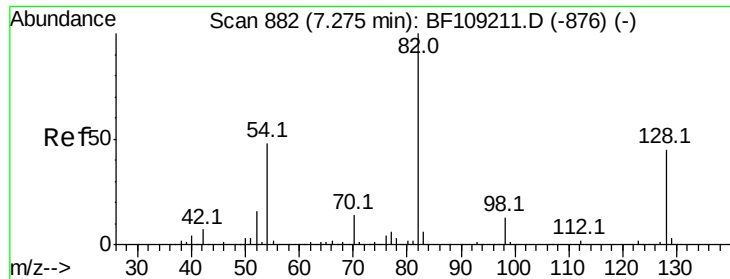
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 48.3  | 47.5  | 71.3  |
| 101     | 0.0   | 7.4   | 11.2# |
| 130     | 2.1   | 16.6  | 25.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.99 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.8  | 8.9   | 13.3  |
| 54      | 7.0   | 6.6   | 9.8   |
| 68      | 5.6   | 5.0   | 7.4   |

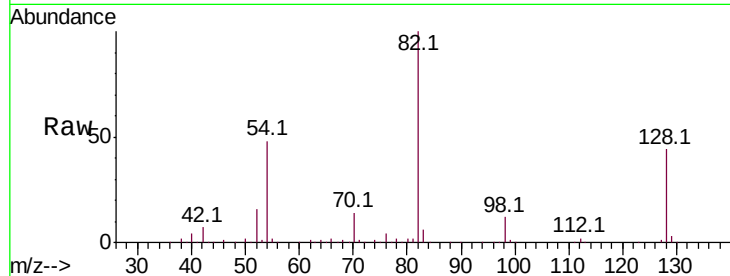




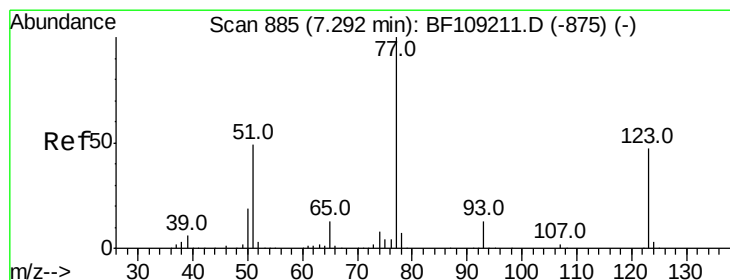
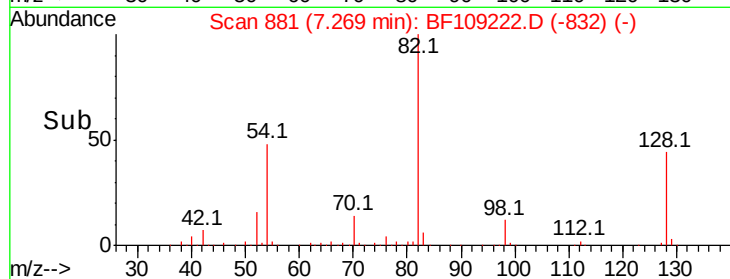
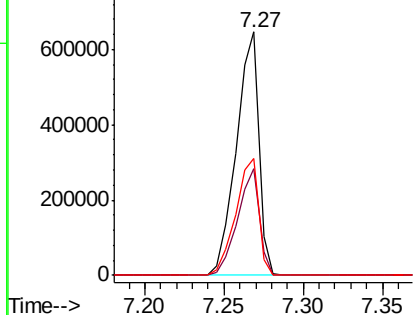
#23  
 Nitrobenzene-d5  
 Concen: 78.737 ng  
 RT: 7.27 min Scan# 881  
 Delta R.T. -0.01 min  
 Lab File: BF109222.D  
 Acq: 22 Sep 2018 15:41

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 638070 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.7  | 36.1  | 54.1   |
| 54        | 48.1  | 41.4  | 62.2   |

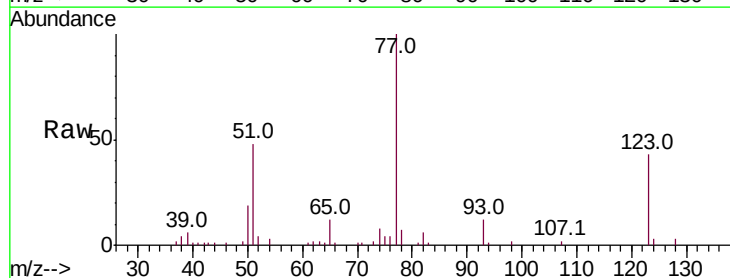


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

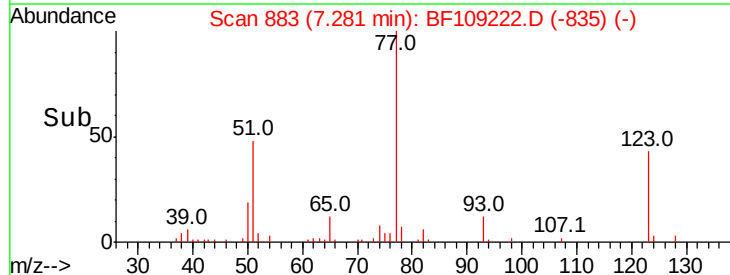
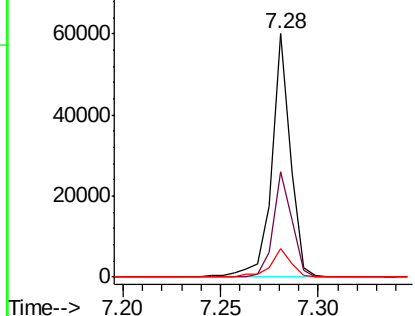


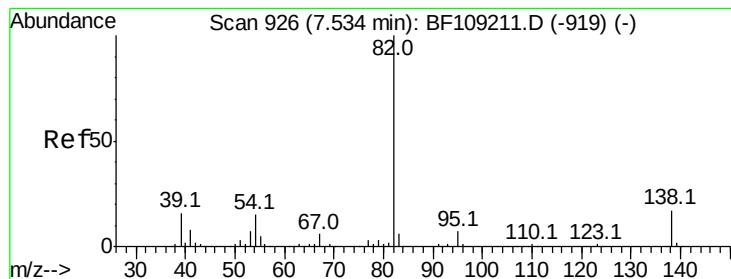
#24  
 Nitrobenzene  
 Concen: 4.623 ng  
 RT: 7.28 min Scan# 883  
 Delta R.T. -0.02 min  
 Lab File: BF109222.D  
 Acq: 22 Sep 2018 15:41

| Tgt Ion   | 77    | Resp  | 39833 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 123       | 43.1  | 37.9  | 56.9  |
| 65        | 11.6  | 11.0  | 16.4  |



Abundance Ion 77.00 (76.70 to 77.70): BF1  
 Ion 123.00 (122.70 to 123.70): BF1  
 Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 39.685 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.28 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

Instrument :

BNA\_F

ClientSampled :

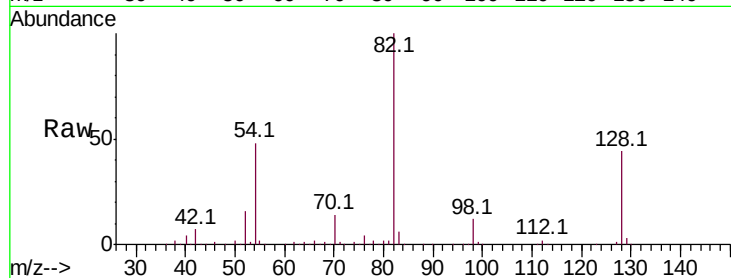
Tot Ion: 82 Resp: 579109

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

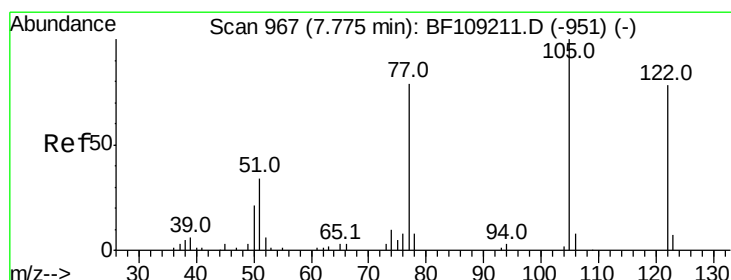
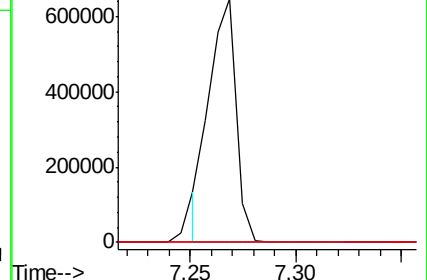
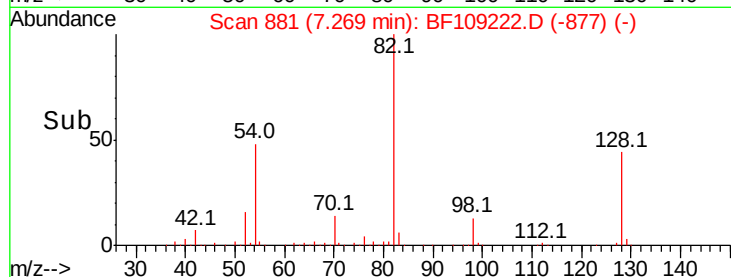
138 0.0 14.9 22.3#



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: 6.957 ng

RT: 7.69 min Scan# 953

Delta R.T. -0.13 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

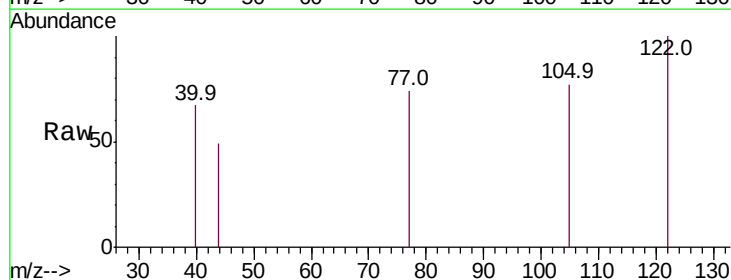
Tgt Ion: 122 Resp: 805

Ion Ratio Lower Upper

122 100

105 77.4 101.1 141.1#

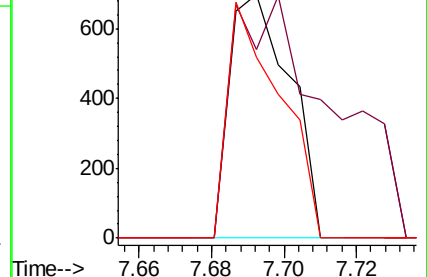
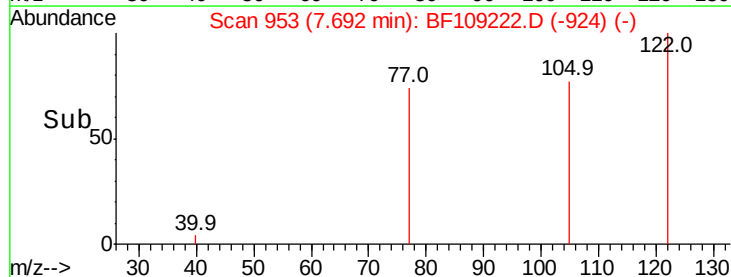
77 74.4 70.7 110.7

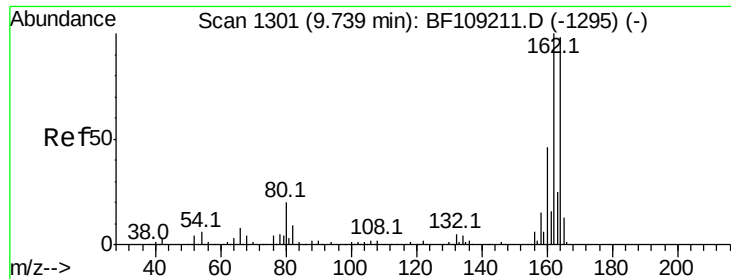


Abundance Ion 122.00 (121.70 to 122.70): E

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: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

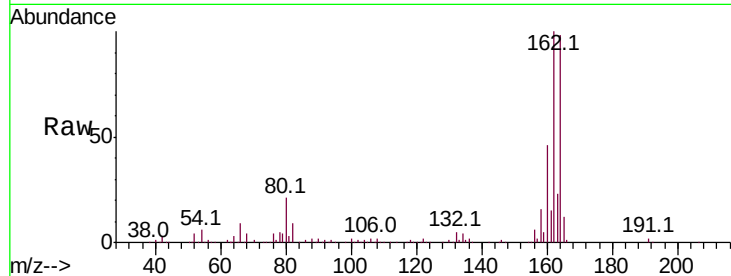
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:164 Resp: 233579

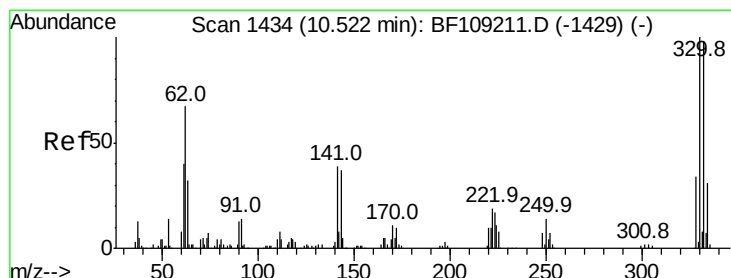
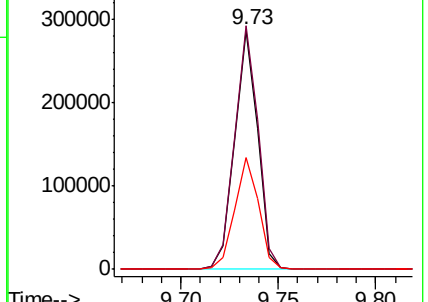
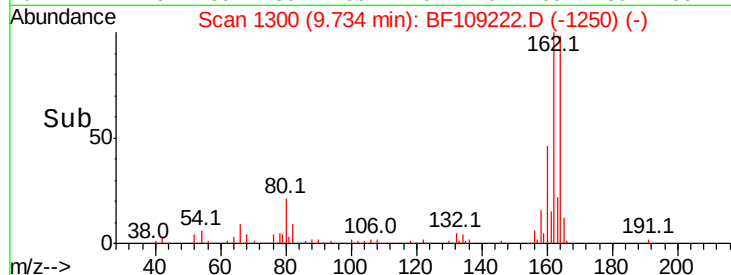
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.8 | 86.1  | 129.1 |
| 160 | 46.6  | 38.3  | 57.5  |



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: 109.470 ng

RT: 10.52 min Scan# 1434

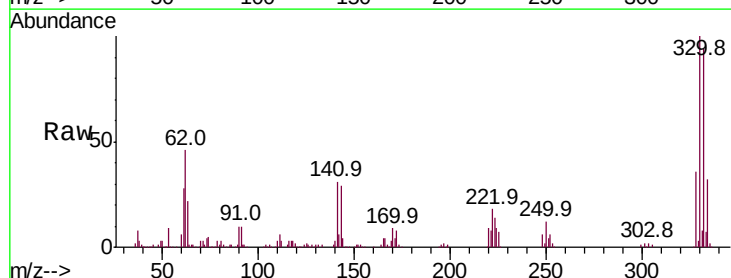
Delta R.T. -0.01 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

Tgt Ion:330 Resp: 252067

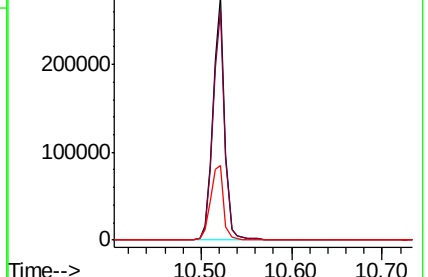
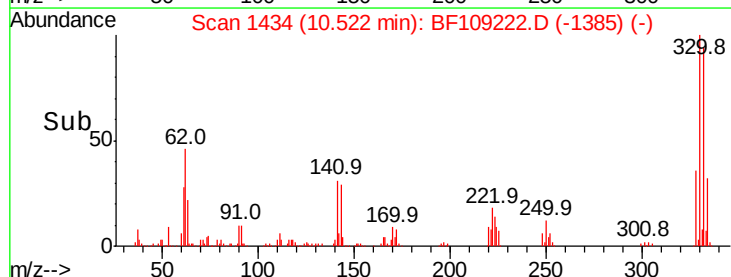
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 94.8  | 77.0  | 115.6 |
| 141 | 34.4  | 29.9  | 44.9  |



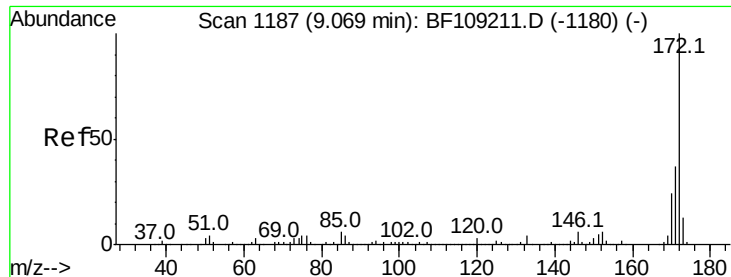
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E







#44

2-Fluorobiphenyl

Concen: 72.601 ng

RT: 9.06 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

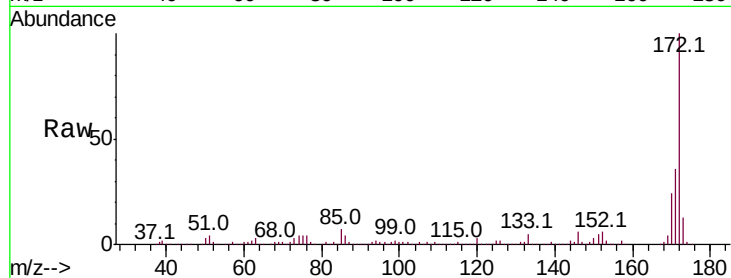
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:172 Resp: 1124391

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.1  | 29.7  | 44.5  |
| 170 | 24.2  | 19.6  | 29.4  |

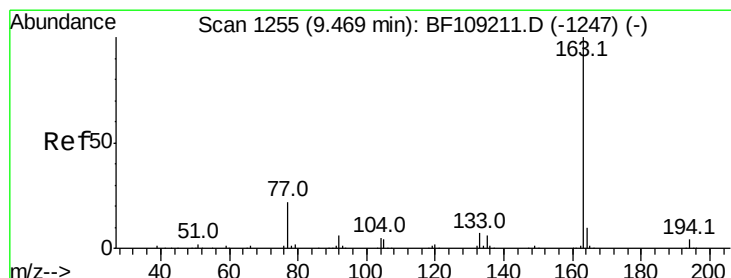
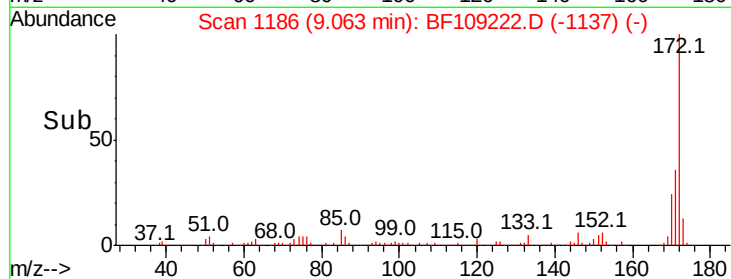
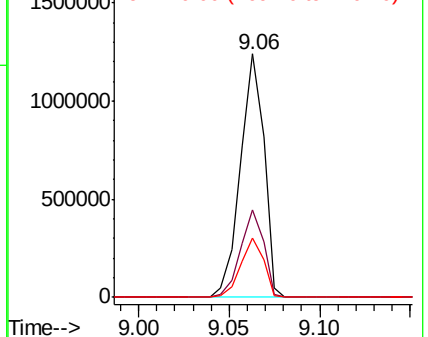


Abundance

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: 6.370 ng

RT: 9.45 min Scan# 1252

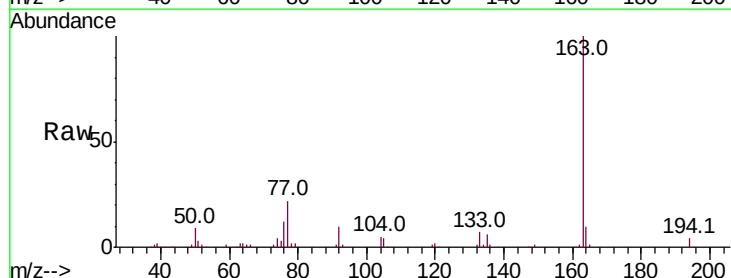
Delta R.T. -0.03 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

Tgt Ion:163 Resp: 108226

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.9   | 2.7   | 4.1   |
| 164 | 10.2  | 8.2   | 12.2  |

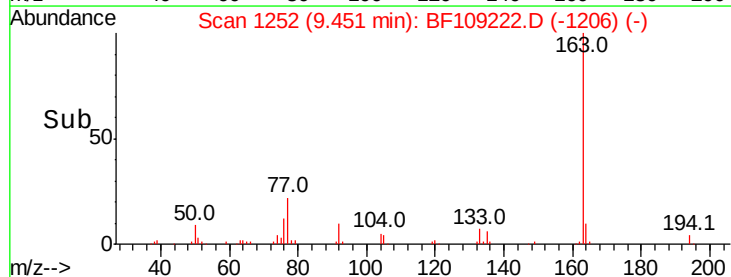
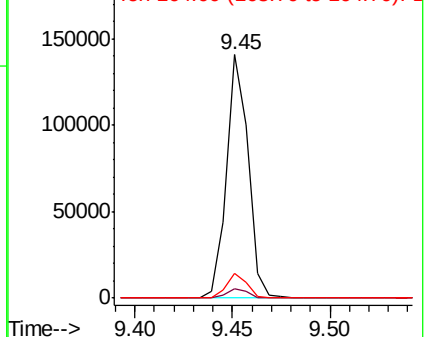


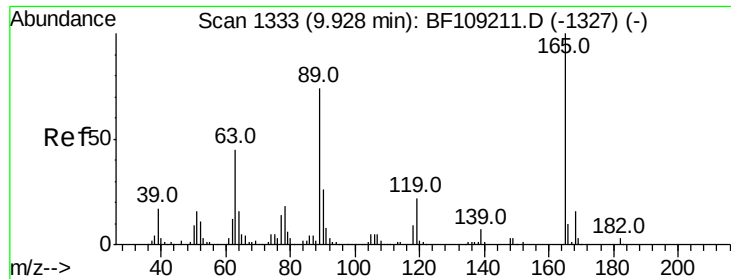
Abundance

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

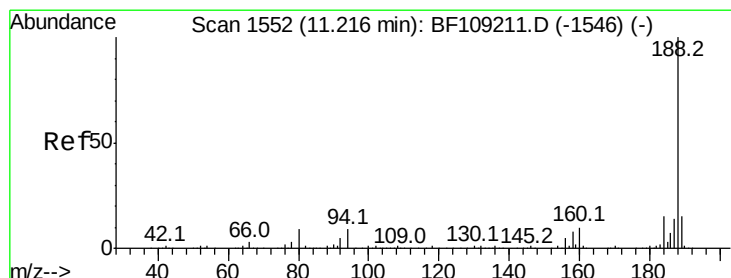
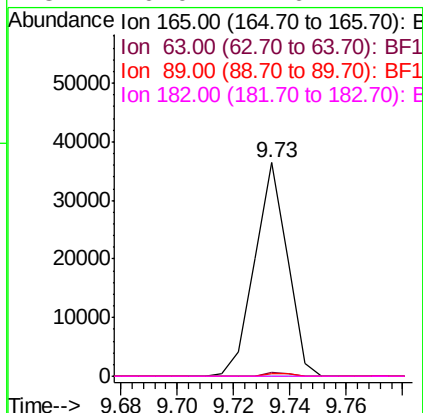
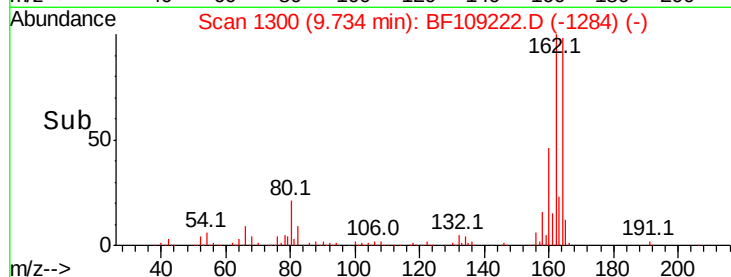
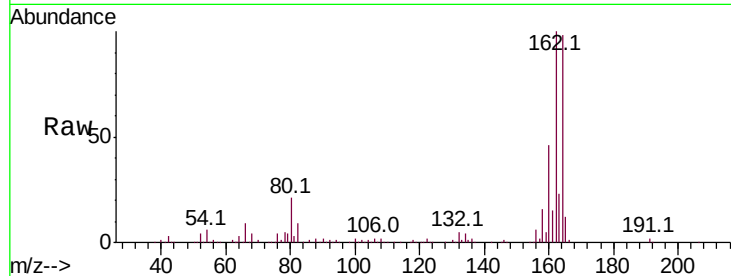




#56  
 2,4-Dinitrotoluene  
 Concen: 6.878 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.21 min  
 Lab File: BF109222.D  
 Acq: 22 Sep 2018 15:41

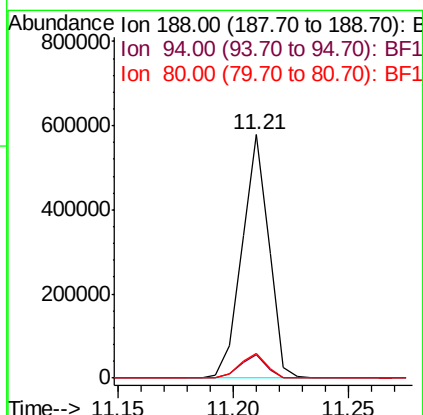
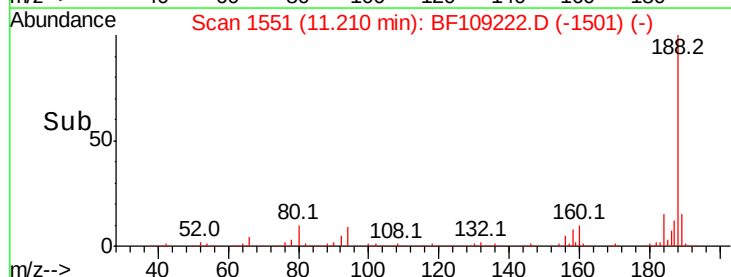
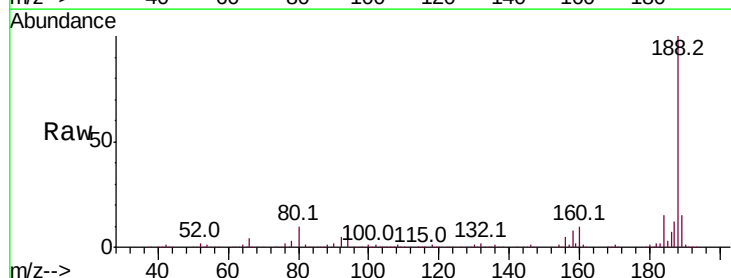
Instrument :  
 BNA\_F  
 ClientSampleId :

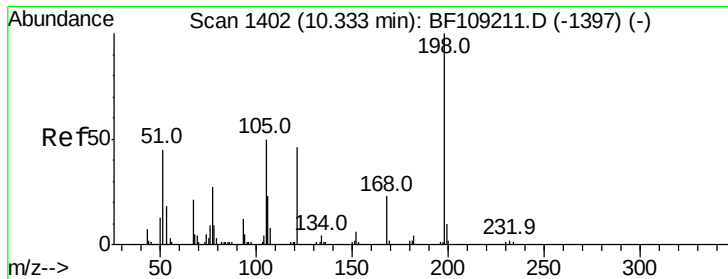
|             |       |       |
|-------------|-------|-------|
| Tot Ion:165 | Resp: | 29280 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 2.0      | 36.4  | 54.6# |
| 89 1.4      | 57.8  | 86.6# |
| 182 0.0     | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.21 min Scan# 1551  
 Delta R.T. -0.01 min  
 Lab File: BF109222.D  
 Acq: 22 Sep 2018 15:41

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:188 | Resp: | 469529 |
| Ion Ratio   | Lower | Upper  |
| 188 100     |       |        |
| 94 9.4      | 8.5   | 12.7   |
| 80 10.3     | 9.2   | 13.8   |

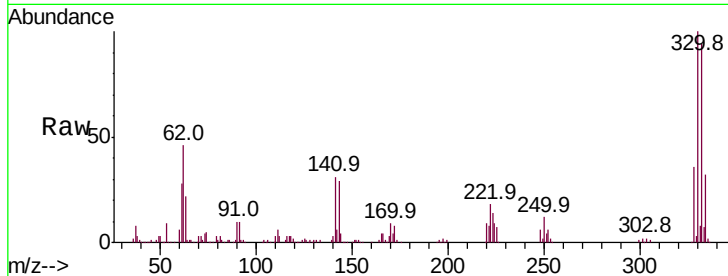




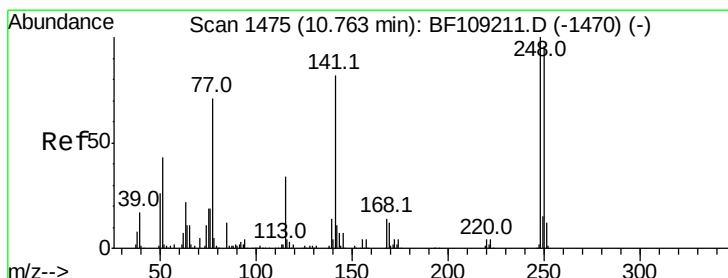
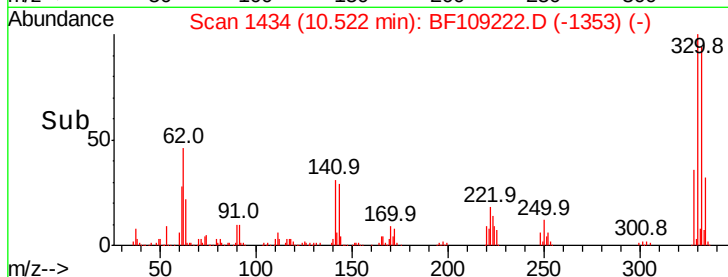
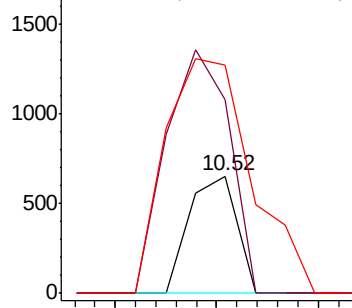
#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.716 ng  
RT: 10.52 min Scan# 1434  
Delta R.T. 0.18 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:198 Resp: 427  
Ion Ratio Lower Upper  
198 100  
51 164.5 37.7 77.7#  
105 194.3 36.3 76.3#

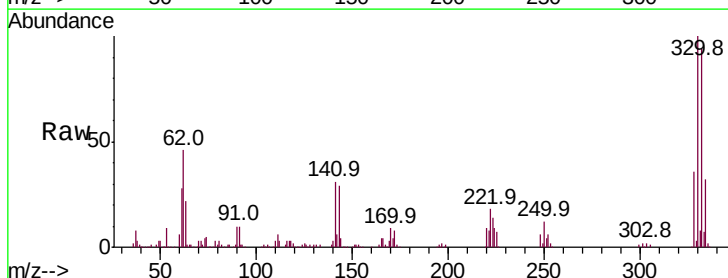


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

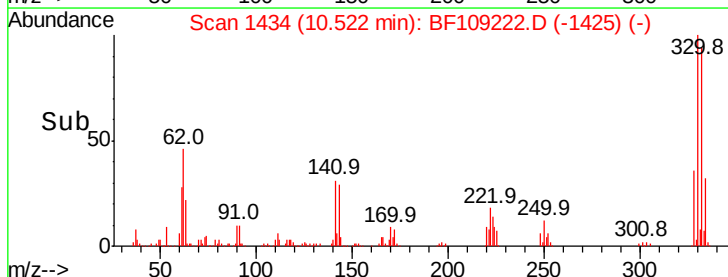
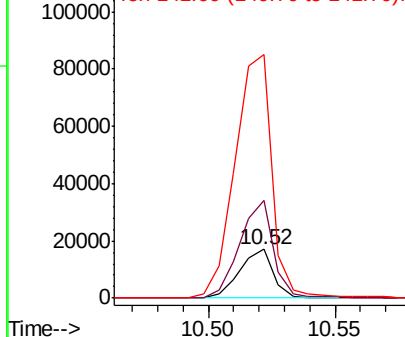


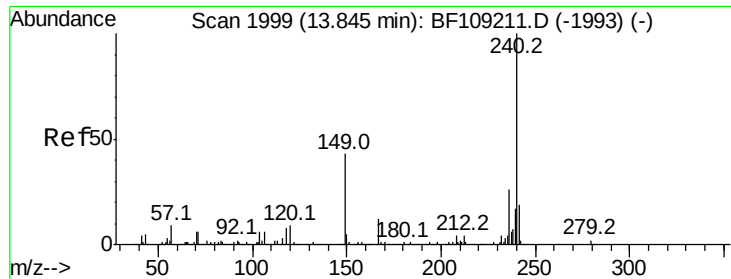
#66  
4-Bromophenyl-phenylether  
Concen: 2.989 ng  
RT: 10.52 min Scan# 1434  
Delta R.T. -0.25 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

Tgt Ion:248 Resp: 15585  
Ion Ratio Lower Upper  
248 100  
250 201.7 76.9 115.3#  
141 502.4 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

Chrvsene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

Instrument :

BNA\_F

ClientSampleId :

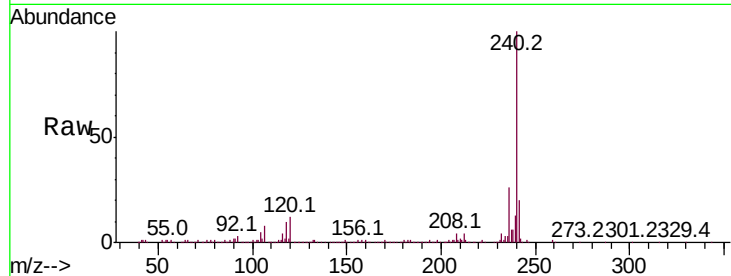
Tot Ion:240 Resp: 385311

Ion Ratio Lower Upper

240 100

120 11.7 9.5 14.3

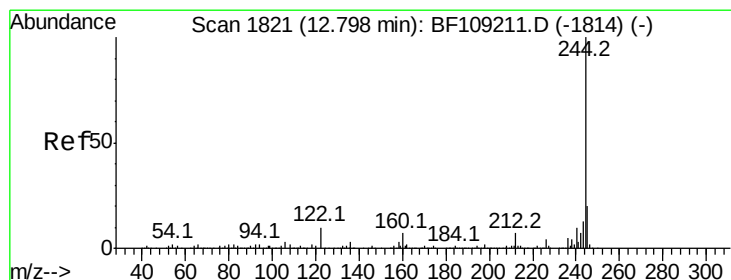
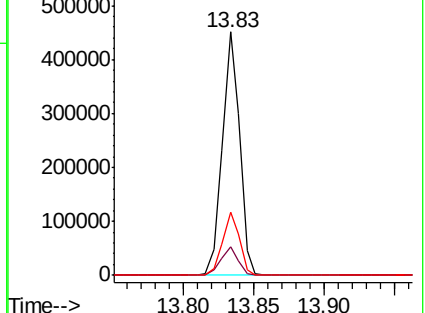
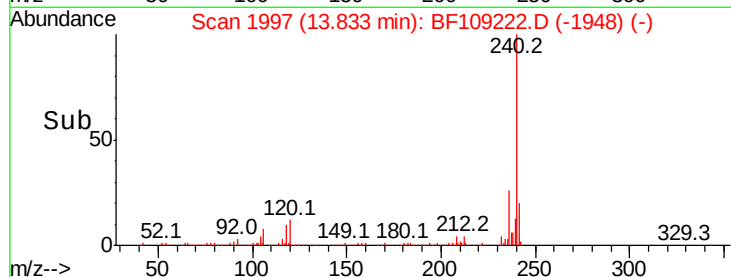
236 25.9 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 79.453 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF109222.D

Acq: 22 Sep 2018 15:41

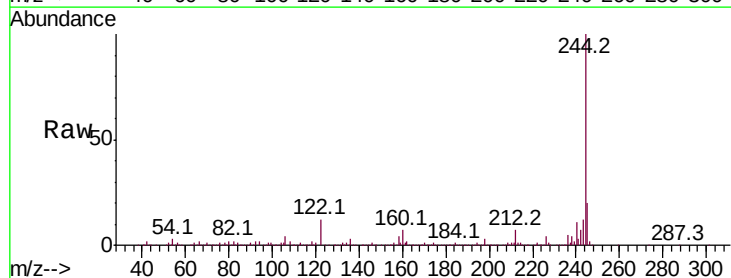
Tgt Ion:244 Resp: 1247440

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

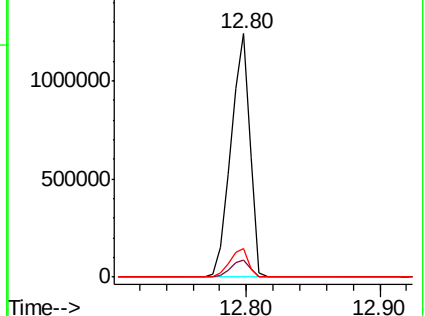
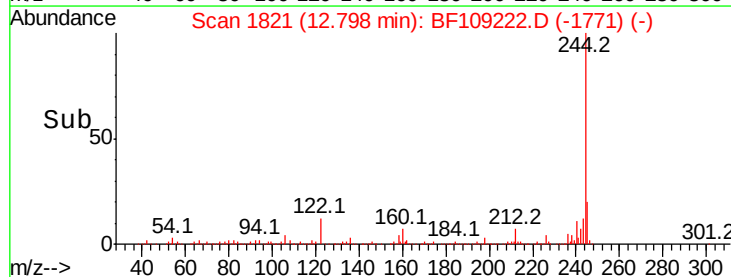
122 11.9 11.0 16.4

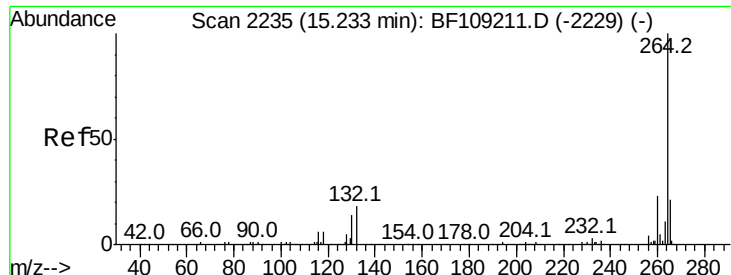


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.23 min Scan# 2235  
Delta R.T. -0.01 min  
Lab File: BF109222.D  
Acq: 22 Sep 2018 15:41

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.2  | 28.8  |
| 265     | 22.0  | 17.5  | 26.3  |

