

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
 Data File : BF109256.D  
 Acq On : 24 Sep 2018 10:20  
 Operator : JU/SJ  
 Sample : J4993-06  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 24 13:24:57 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

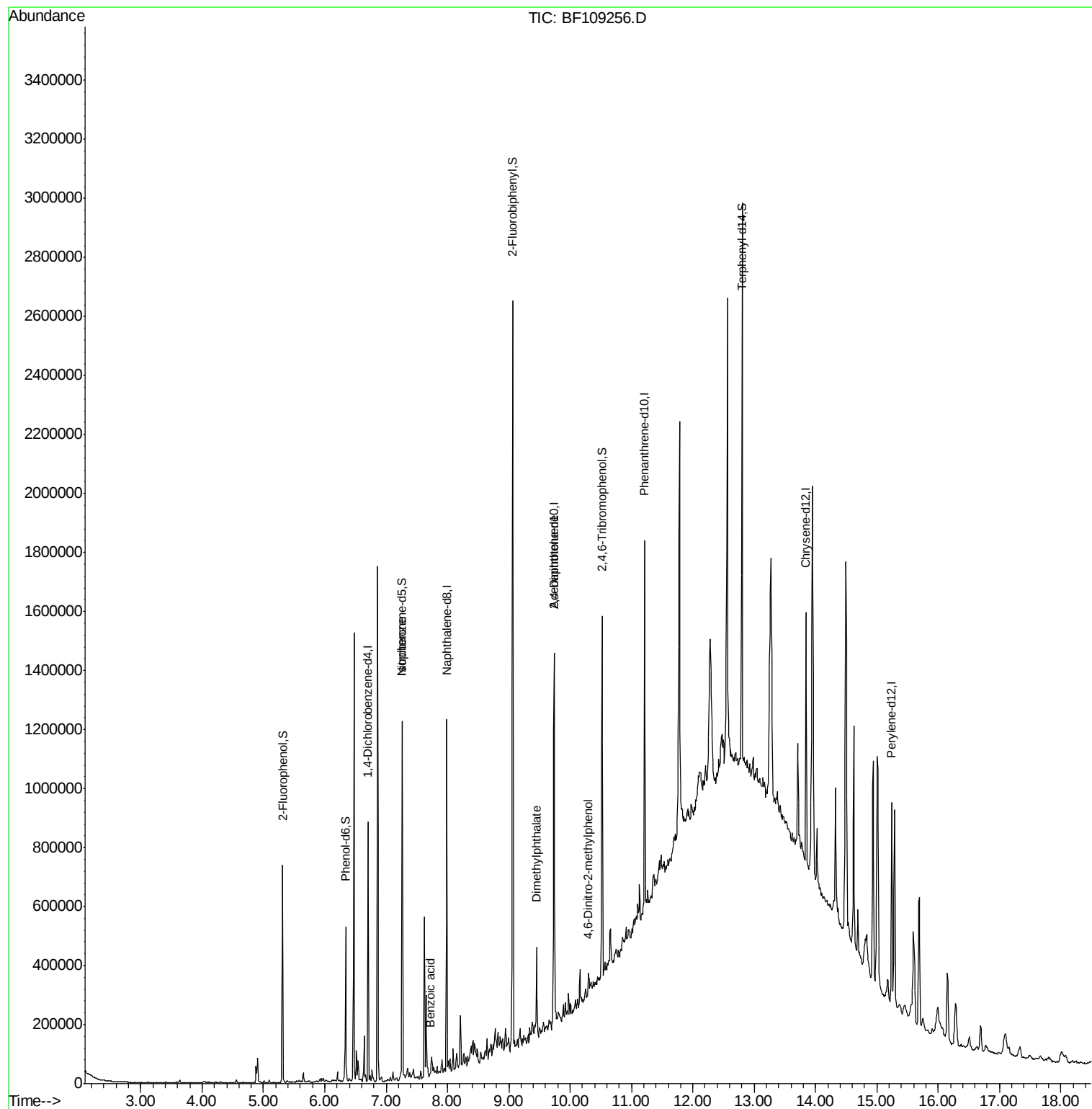
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.70  | 152  | 121852   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.99  | 136  | 474014   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.74  | 164  | 229740   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.22 | 188  | 426000   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.84 | 240  | 293756   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.24 | 264  | 310560   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 192371   | 26.00  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.34  | 99   | 155032   | 16.42  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 400412   | 49.87  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.52 | 330  | 147921   | 65.31  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.06  | 172  | 749221   | 49.18  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.80 | 244  | 683036   | 57.06  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 25) Isophorone                 | 7.26  | 82   | 375745   | 25.986 | ng    | # 64     |
| 32) Benzoic acid               | 7.72  | 122  | 1042     | 7.006  | ng    | 87       |
| 49) Dimethylphthalate          | 9.46  | 163  | 91894    | 5.499  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.74  | 165  | 29446    | 7.032  | ng    | # 25     |
| 64) 4,6-Dinitro-2-methylphenol | 10.29 | 198  | 108      | 6.574  | ng    | # 1      |

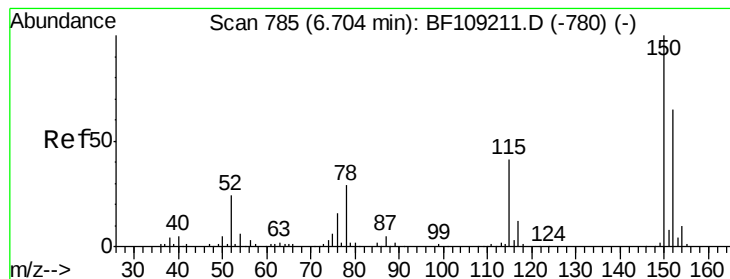
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092418\  
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Acq On : 24 Sep 2018 10:20  
Operator : JU/SJ  
Sample : J4993-06  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 24 13:24:57 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



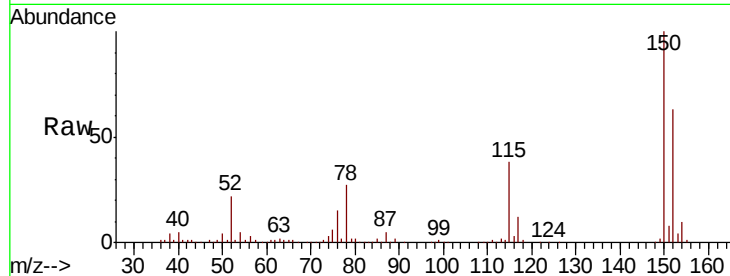


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.70 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF109256.D  
Acq: 24 Sep 2018 10:20

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.5 | 124.6 | 186.8 |
| 115     | 60.9  | 50.1  | 75.1  |

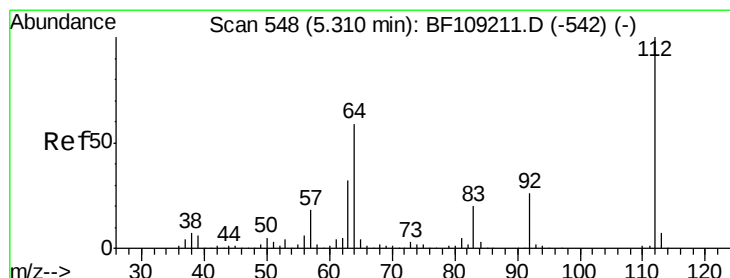
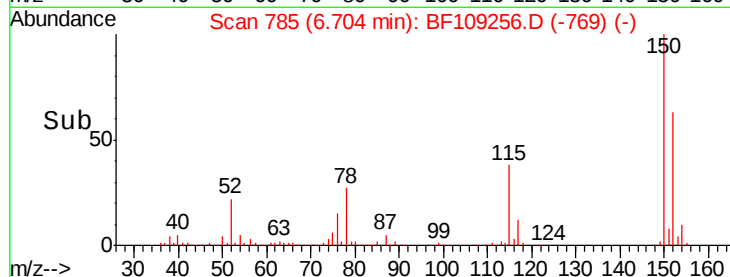
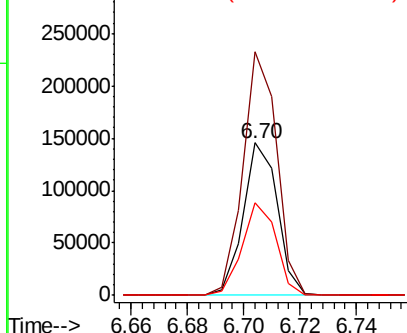


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

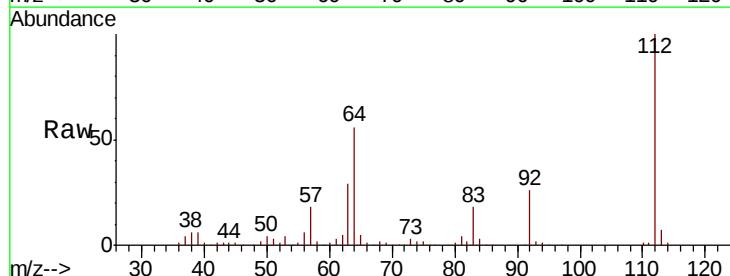
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 26.003 ng  
RT: 5.31 min Scan# 548  
Delta R.T. -0.01 min  
Lab File: BF109256.D  
Acq: 24 Sep 2018 10:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.7  | 47.9  | 71.9  |
| 63      | 29.0  | 23.7  | 35.5  |

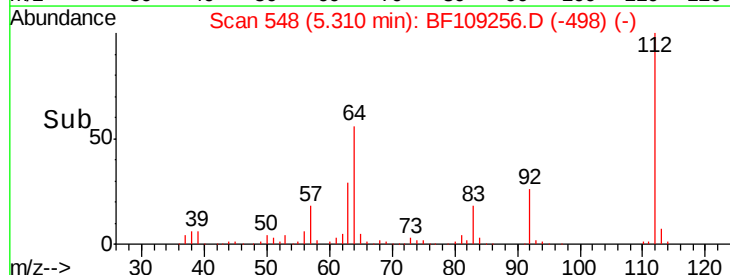
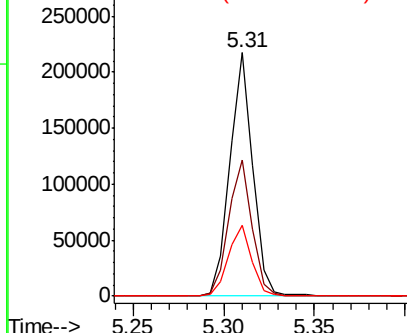


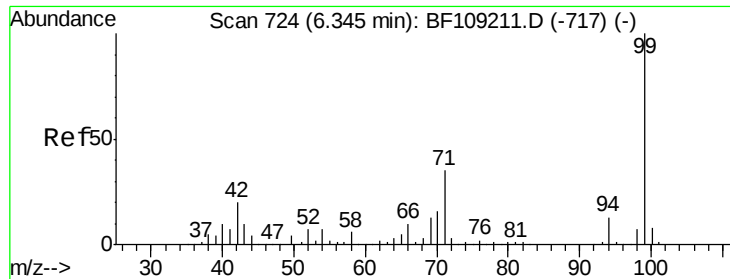
Abundance

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: 16.423 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Instrument :

BNA\_F

ClientSampleId :

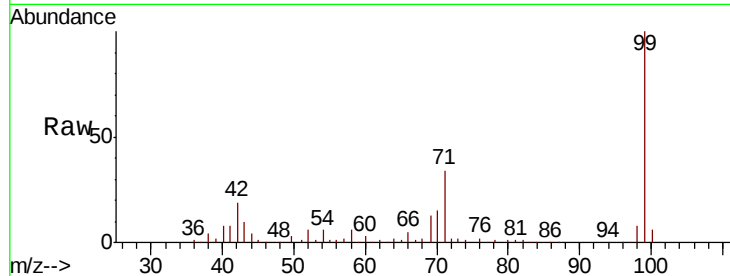
Tot Ion: 99 Resp: 155032

Ion Ratio Lower Upper

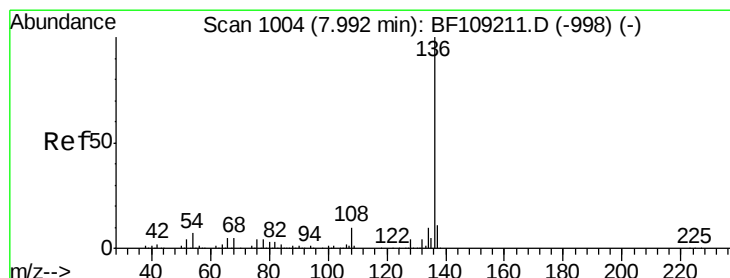
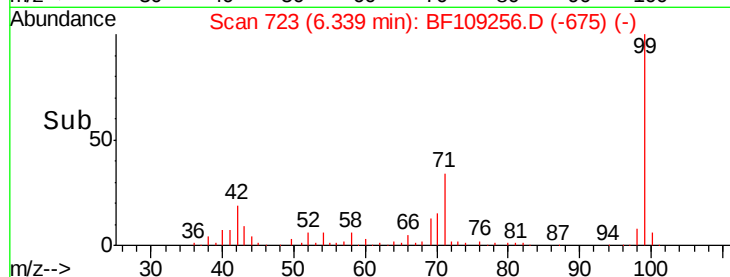
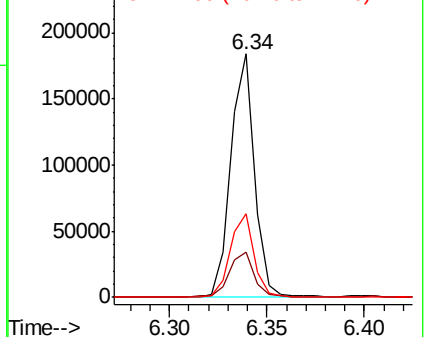
99 100

42 18.8 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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1003

Delta R.T. -0.01 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Tgt Ion: 136 Resp: 474014

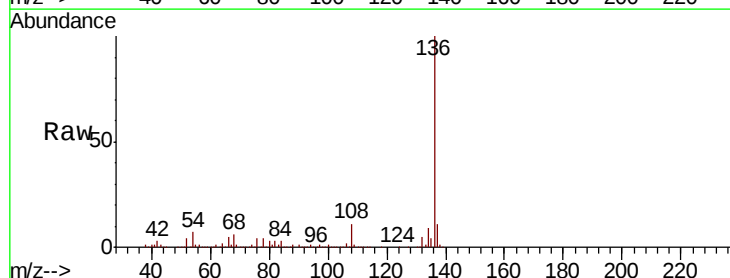
Ion Ratio Lower Upper

136 100

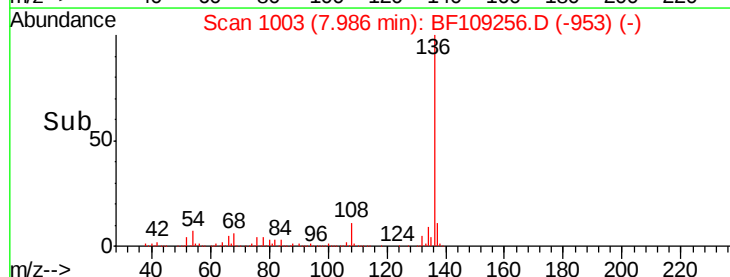
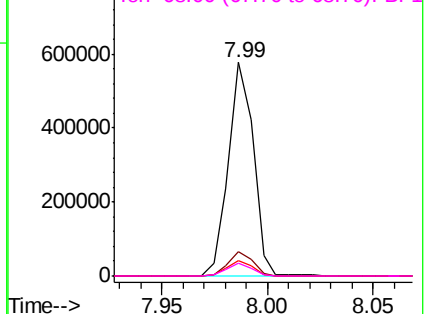
137 11.3 8.9 13.3

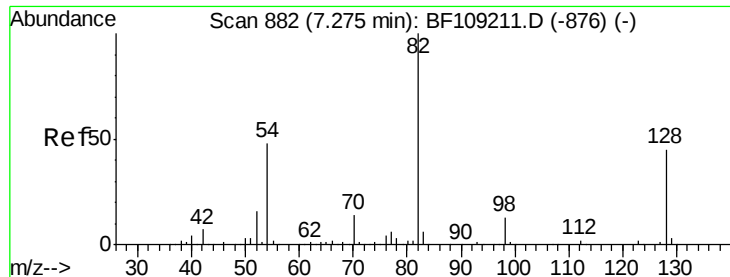
54 7.3 6.6 9.8

68 6.0 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

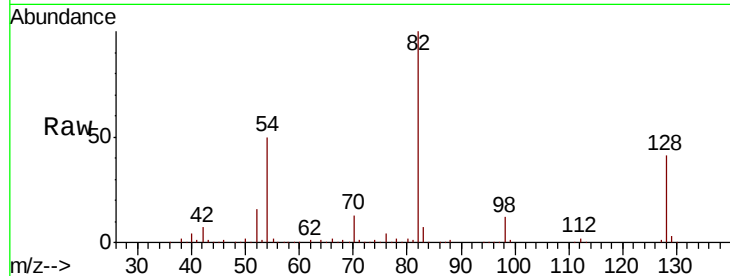




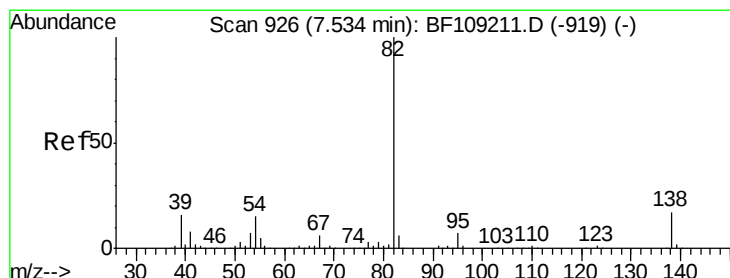
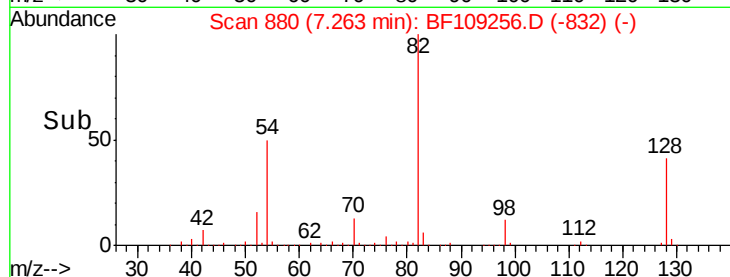
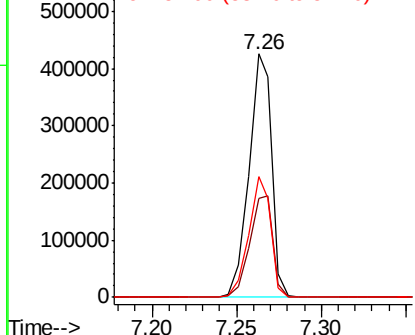
#23  
 Nitrobenzene-d5  
 Concen: 49.865 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.02 min  
 Lab File: BF109256.D  
 Acq: 24 Sep 2018 10:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 400412  
 Ion Ratio Lower Upper  
 82 100  
 128 40.6 36.1 54.1  
 54 49.5 41.4 62.2

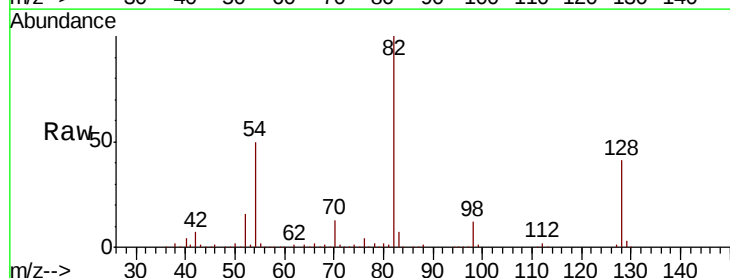


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

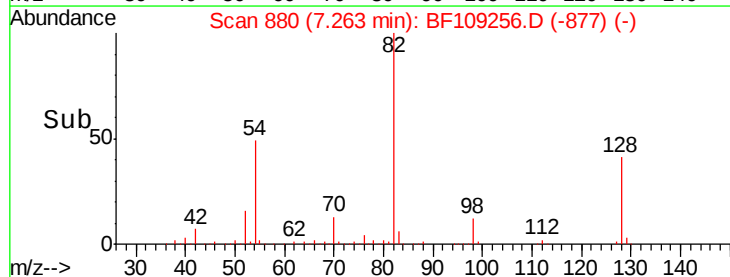
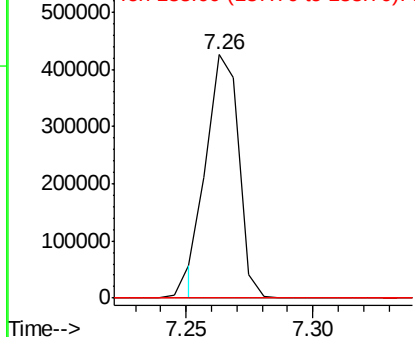


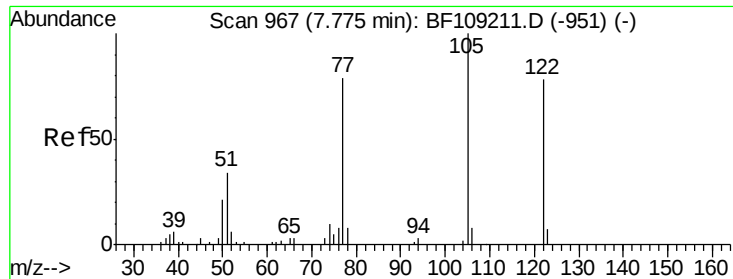
#25  
 Isophorone  
 Concen: 25.986 ng  
 RT: 7.26 min Scan# 880  
 Delta R.T. -0.28 min  
 Lab File: BF109256.D  
 Acq: 24 Sep 2018 10:20

Tgt Ion: 82 Resp: 375745  
 Ion Ratio Lower Upper  
 82 100  
 95 0.1 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

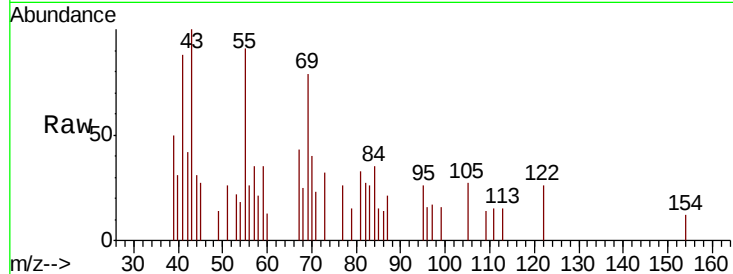




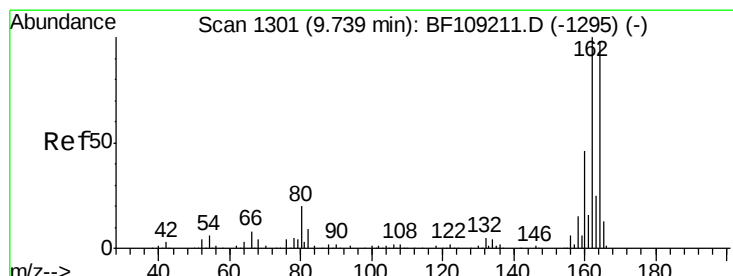
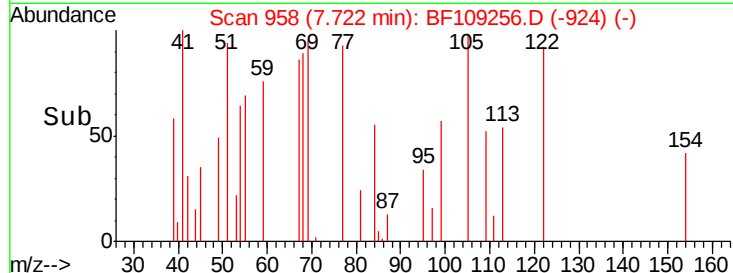
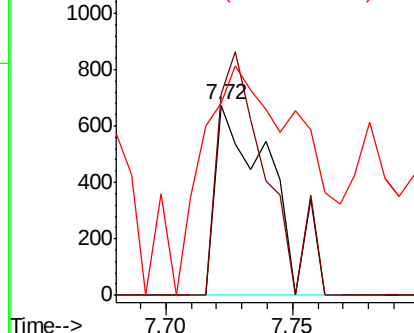
#32  
Benzoic acid  
Concen: 7.006 ng  
RT: 7.72 min Scan# 958  
Delta R.T. -0.10 min  
Lab File: BF109256.D  
Acq: 24 Sep 2018 10:20

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:122 Resp: 1042  
Ion Ratio Lower Upper  
122 100  
105 105.6 101.1 141.1  
77 101.0 70.7 110.7

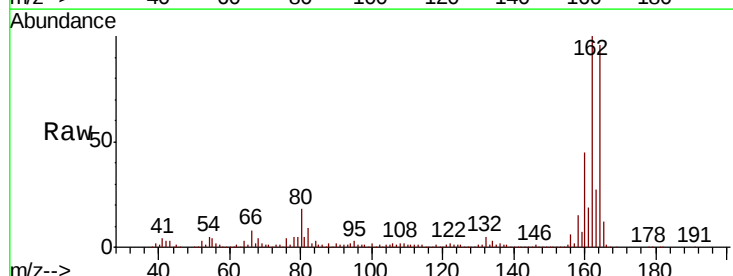


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

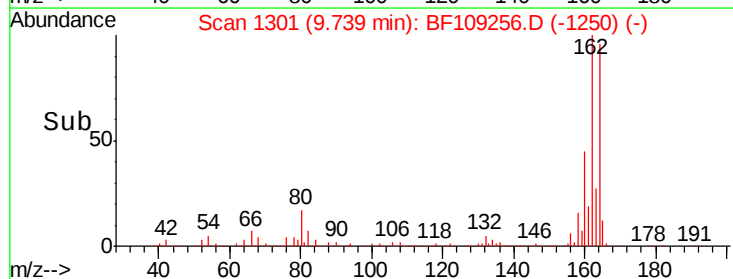
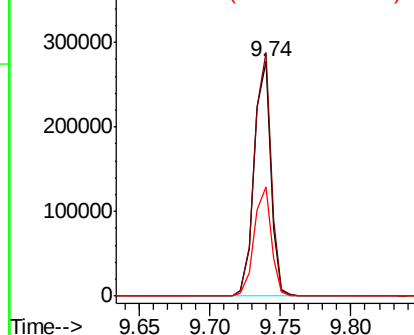


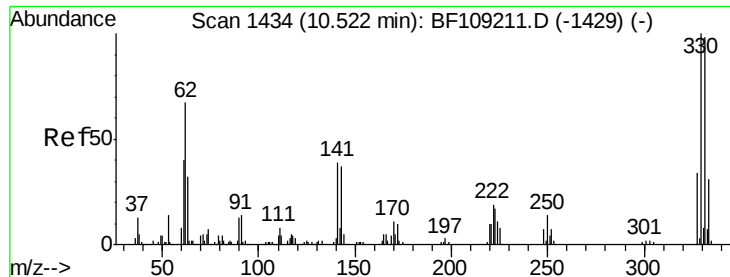
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.74 min Scan# 1301  
Delta R.T. -0.00 min  
Lab File: BF109256.D  
Acq: 24 Sep 2018 10:20

Tgt Ion:164 Resp: 229740  
Ion Ratio Lower Upper  
164 100  
162 104.0 86.1 129.1  
160 46.7 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: 65.314 ng

RT: 10.52 min Scan# 1434

Delta R.T. -0.01 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Instrument :

BNA\_F

ClientSampleId :

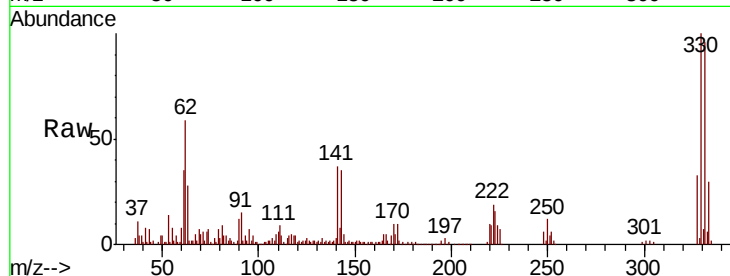
Tot Ion:330 Resp: 147921

Ion Ratio Lower Upper

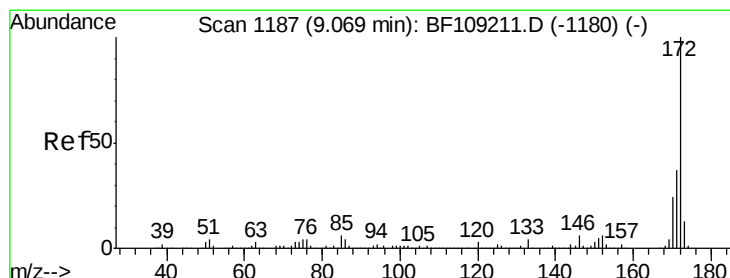
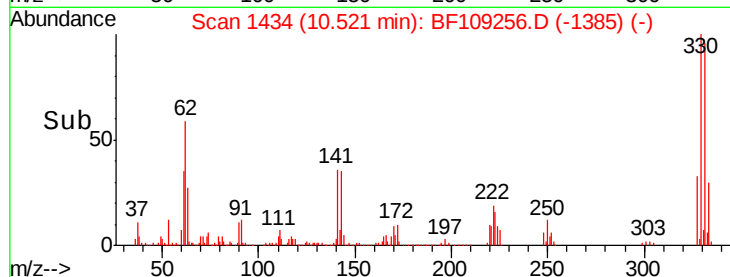
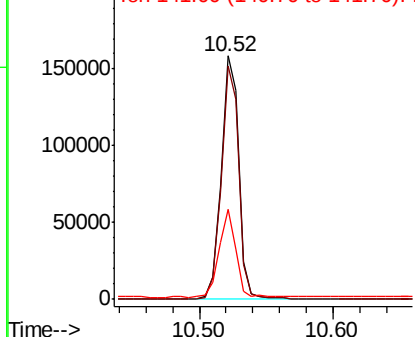
330 100

332 95.3 77.0 115.6

141 34.0 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: 49.185 ng

RT: 9.06 min Scan# 1186

Delta R.T. -0.01 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

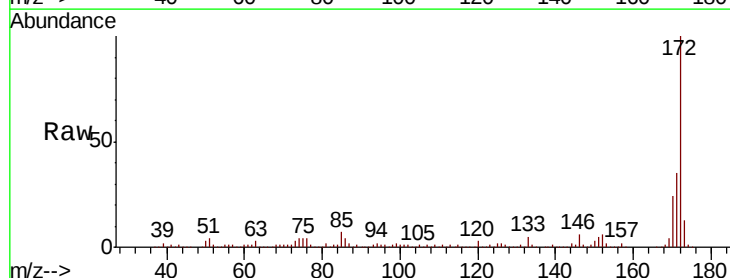
Tgt Ion:172 Resp: 749221

Ion Ratio Lower Upper

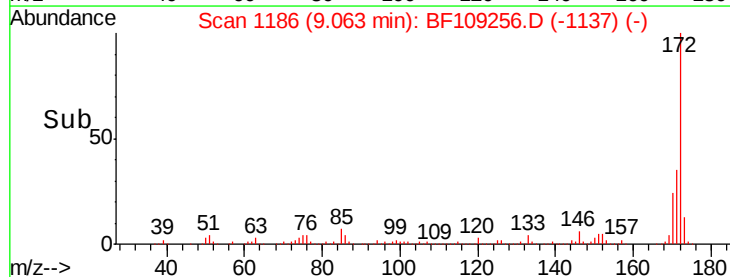
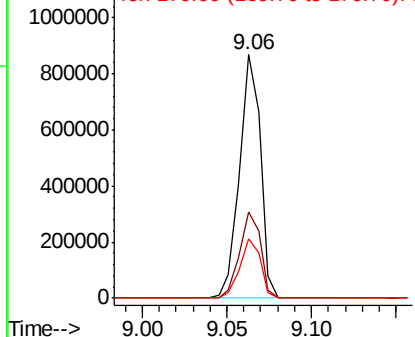
172 100

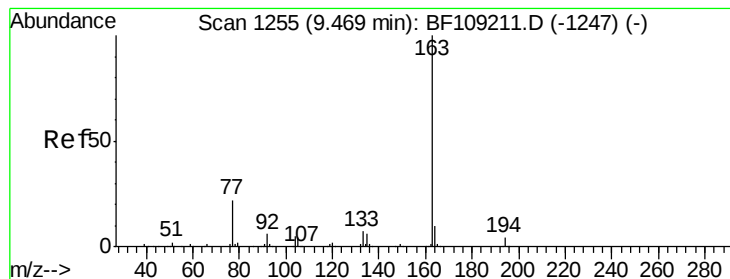
171 35.4 29.7 44.5

170 24.1 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: 5.499 ng

RT: 9.46 min Scan# 1253

Delta R.T. -0.02 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Instrument :

BNA\_F

ClientSampleId :

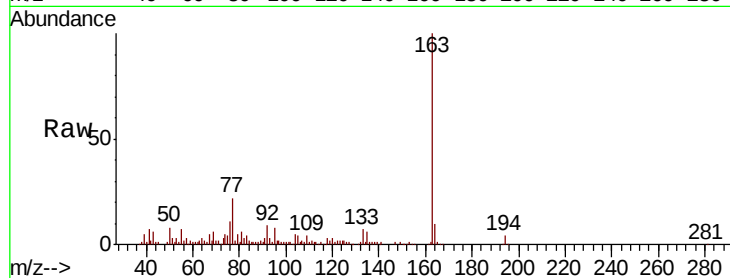
Tot Ion:163 Resp: 91894

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

164 10.4 8.2 12.2

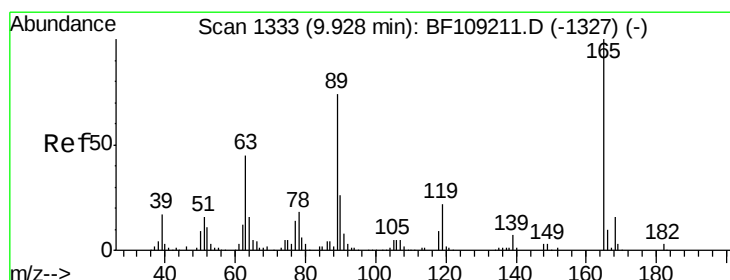
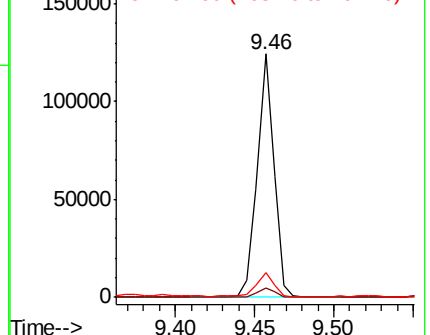
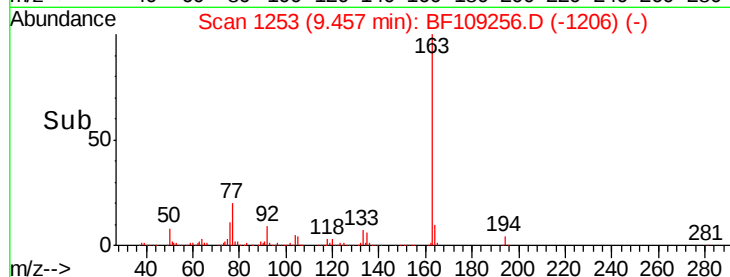


Abundance

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: 7.032 ng

RT: 9.74 min Scan# 1301

Delta R.T. -0.20 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Tgt Ion:165 Resp: 29446

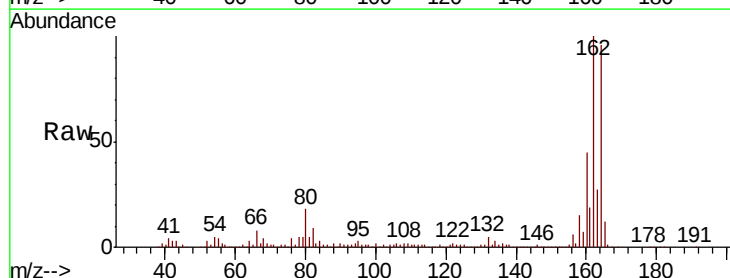
Ion Ratio Lower Upper

165 100

63 3.0 36.4 54.6#

89 2.7 57.8 86.6#

182 1.1 1.6 2.4#



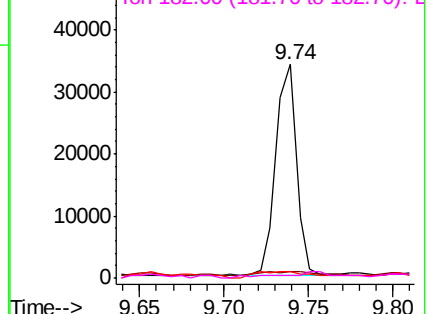
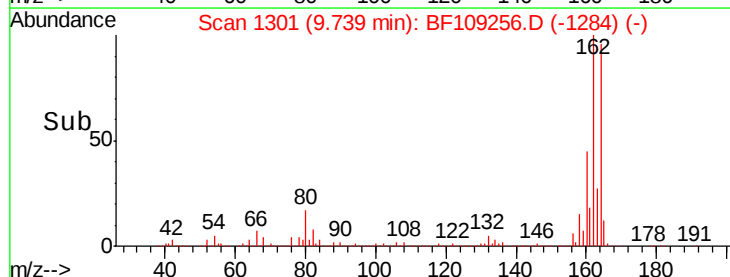
Abundance

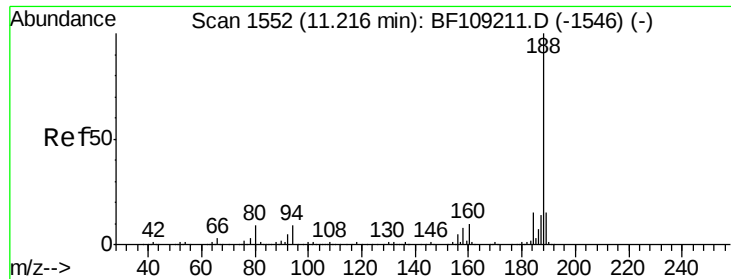
Ion 165.00 (164.70 to 165.70): E

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

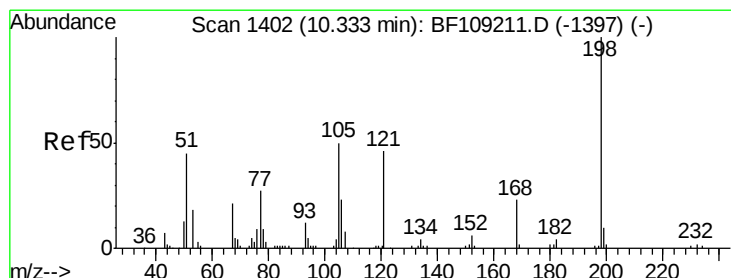
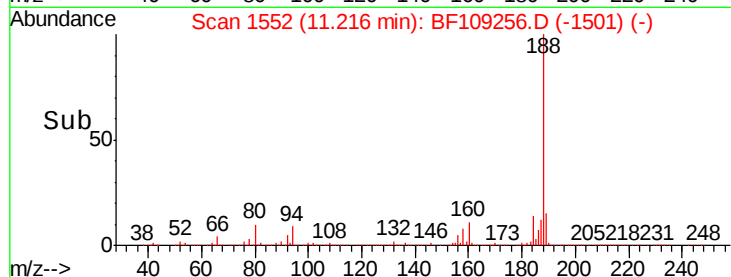
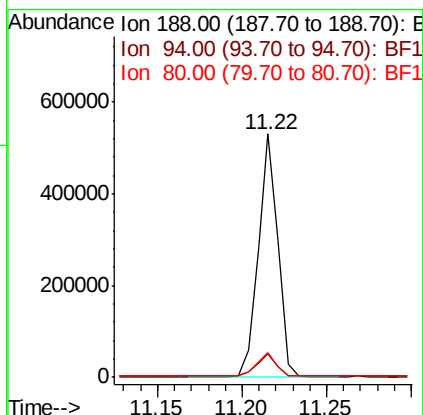
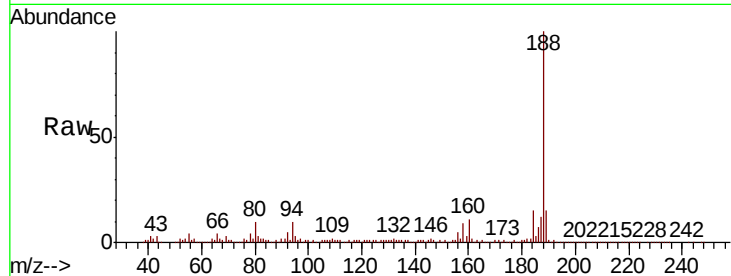




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.22 min Scan# 1552  
 Delta R.T. -0.00 min  
 Lab File: BF109256.D  
 Acq: 24 Sep 2018 10:20

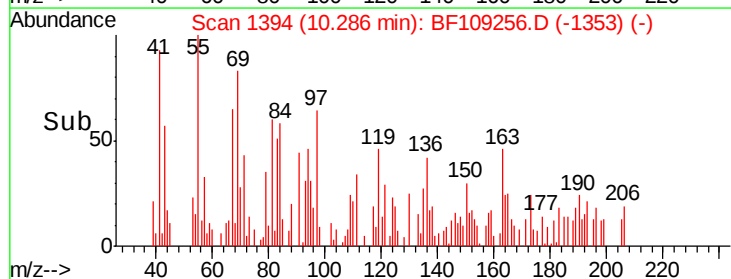
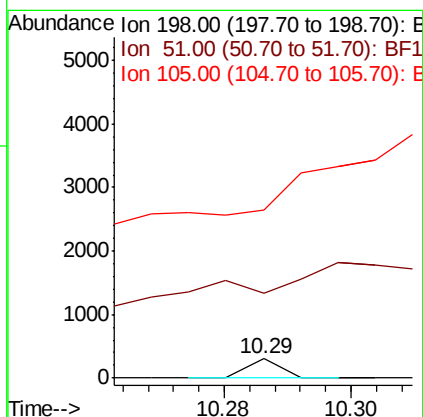
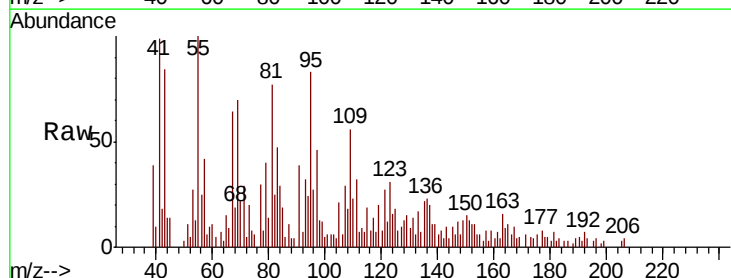
Instrument :  
 BNA\_F  
 ClientSampleId :

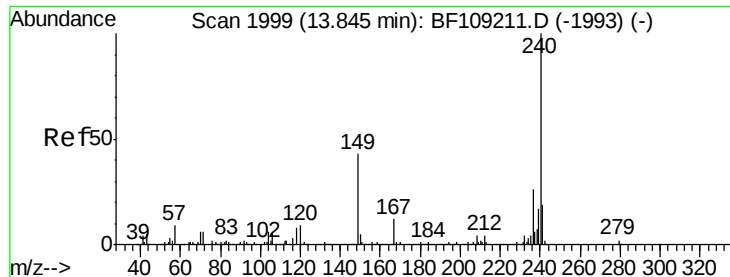
Tot Ion:188 Resp: 426000  
 Ion Ratio Lower Upper  
 188 100  
 94 9.7 8.5 12.7  
 80 10.2 9.2 13.8



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.574 ng  
 RT: 10.29 min Scan# 1394  
 Delta R.T. -0.06 min  
 Lab File: BF109256.D  
 Acq: 24 Sep 2018 10:20

Tgt Ion:198 Resp: 108  
 Ion Ratio Lower Upper  
 198 100  
 51 438.9 37.7 77.7#  
 105 864.1 36.3 76.3#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

Instrument :

BNA\_F

ClientSampleId :

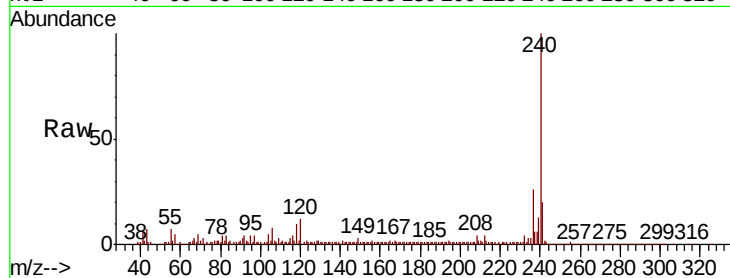
Tot Ion:240 Resp: 293756

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

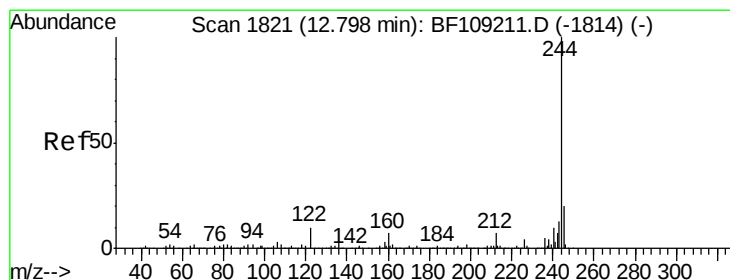
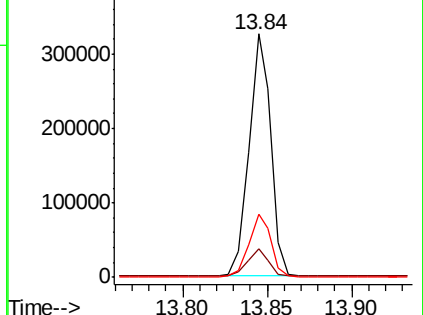
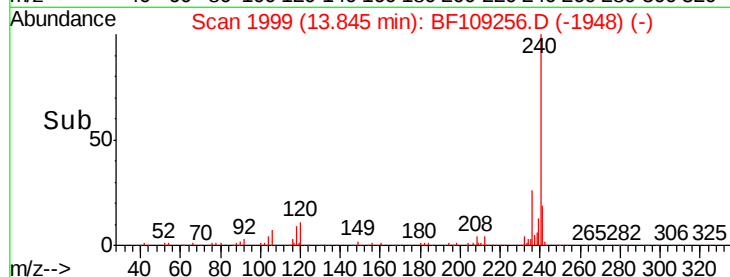
236 26.0 20.7 31.1



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: 57.064 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.00 min

Lab File: BF109256.D

Acq: 24 Sep 2018 10:20

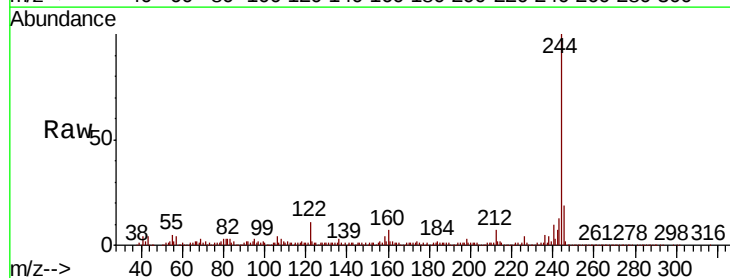
Tgt Ion:244 Resp: 683036

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

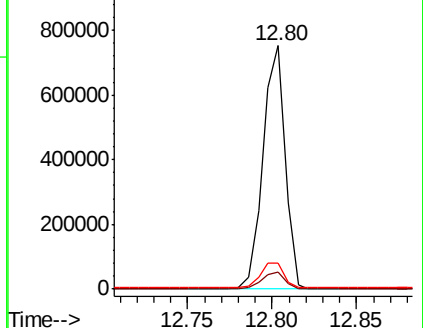
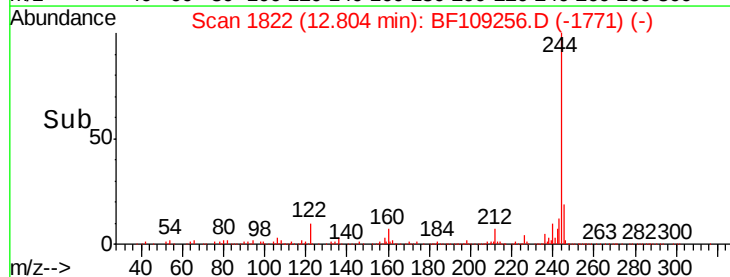
122 10.7 11.0 16.4#

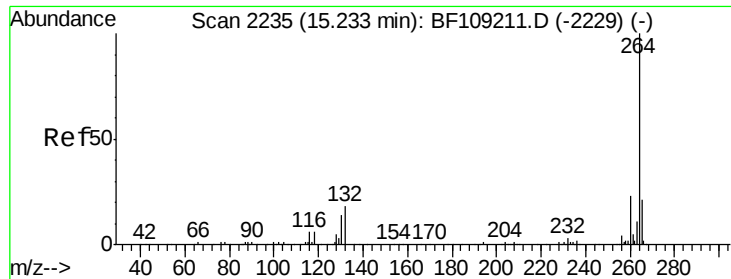


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

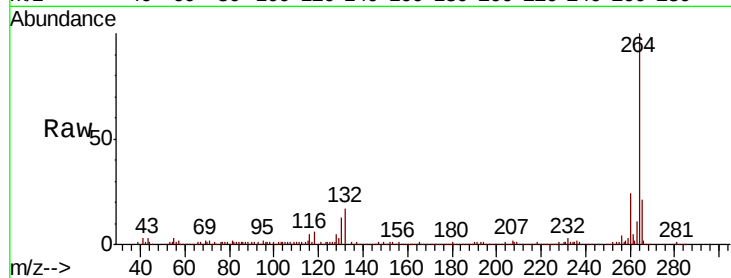




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.24 min Scan# 2237  
 Delta R.T. 0.01 min  
 Lab File: BF109256.D  
 Acq: 24 Sep 2018 10:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 21.3  | 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

