

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\  
 Data File : BF109364.D  
 Acq On : 27 Sep 2018 4:03  
 Operator : JU/SJ  
 Sample : J5053-06  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RFK-RMAB-MW13-GW

Quant Time: Sep 27 08:05:18 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

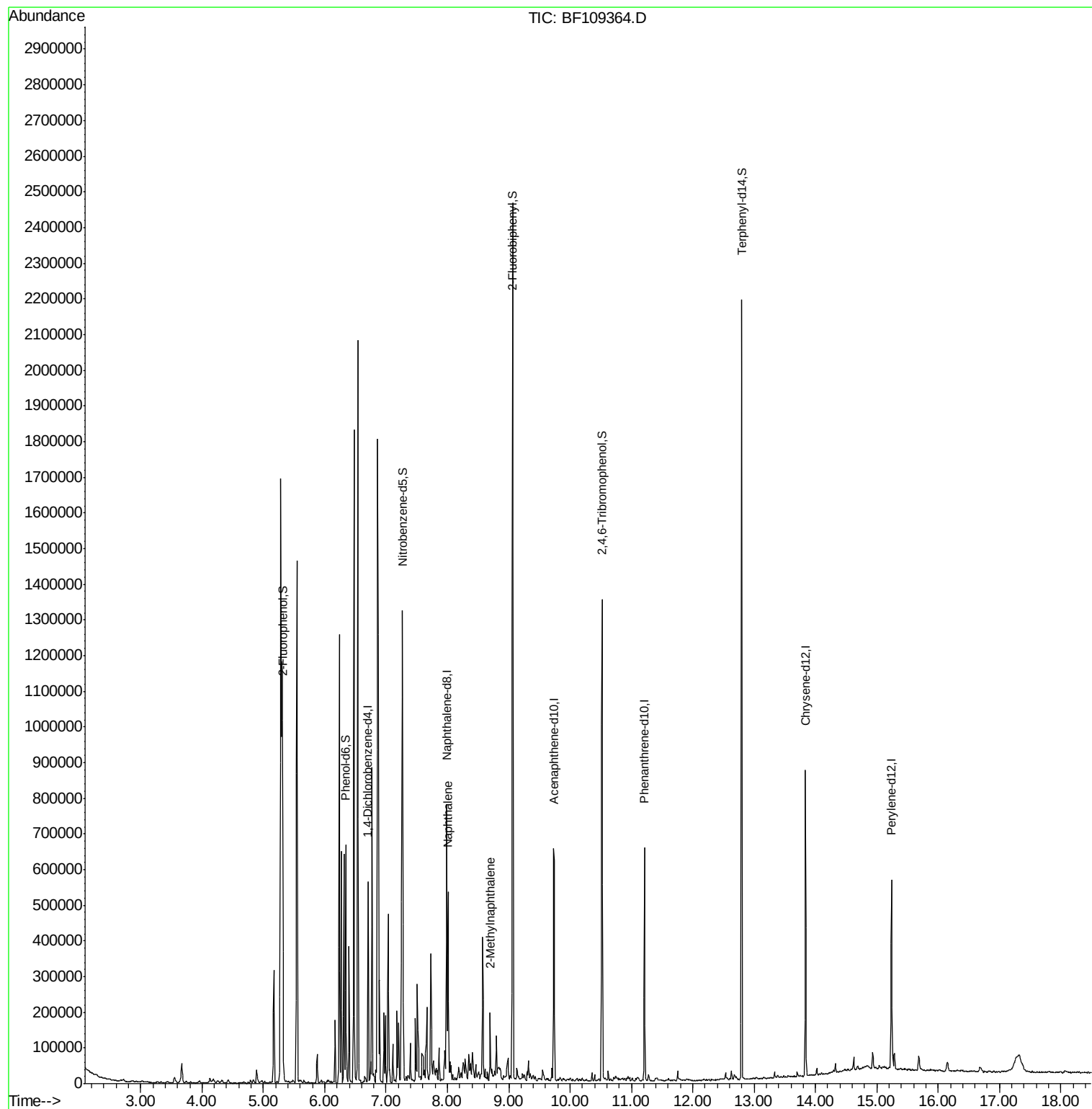
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.71  | 152  | 86491    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.99  | 136  | 296656   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.73  | 164  | 128325   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.21 | 188  | 241349   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.84 | 240  | 273280   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.24 | 264  | 232061   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 271090   | 51.62  | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 217436   | 32.45  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 410864   | 81.76  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 154617   | 122.23 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 702086   | 82.52  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 757148   | 67.99  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.01  | 128  | 191421   | 13.808 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.70  | 142  | 34448    | 3.855  | ng    | 96       |

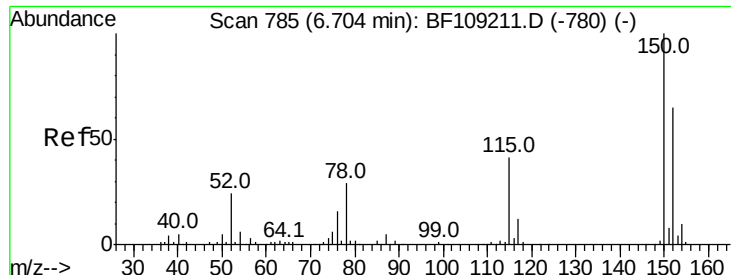
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\  
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RFK-RMAB-MW13-GW

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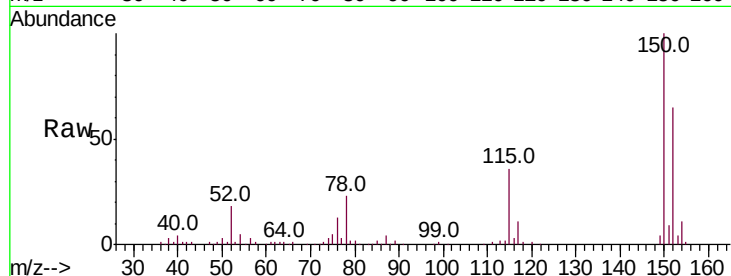


#1

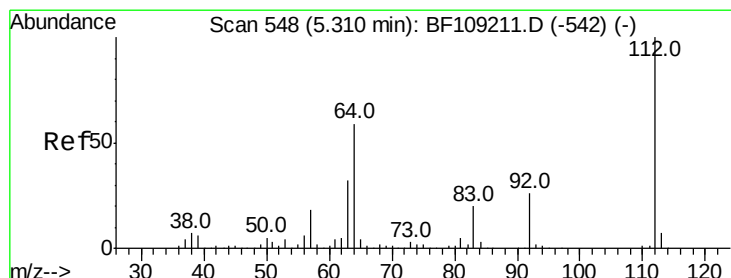
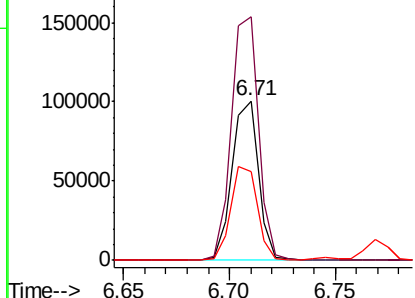
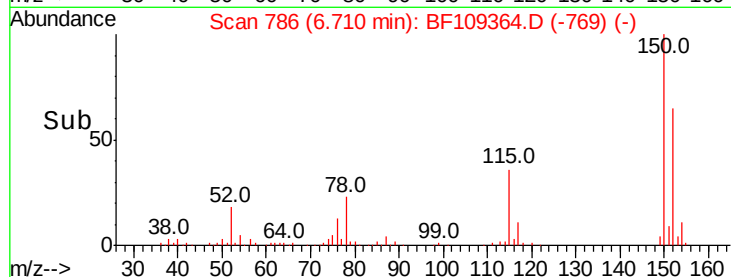
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.71 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: BF109364.D  
Acq: 27 Sep 2018 4:03

Instrument :  
BNA\_F  
ClientSampleId :  
RFK-RMAB-MW13-GW

Tot Ion:152 Resp: 86491  
Ion Ratio Lower Upper  
152 100  
150 153.0 124.6 186.8  
115 55.4 50.1 75.1



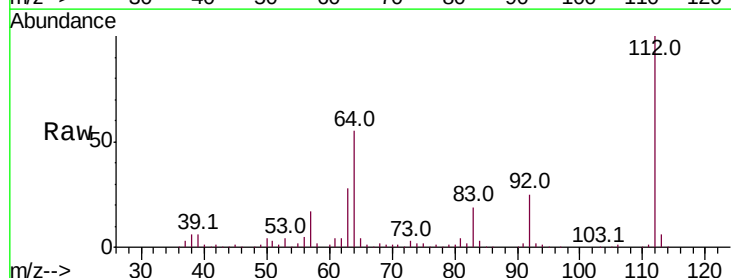
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



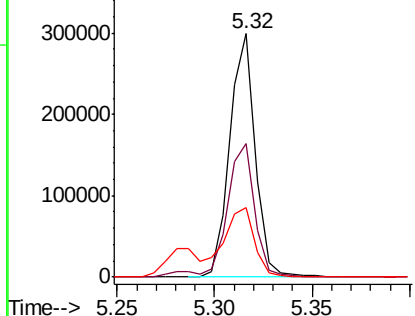
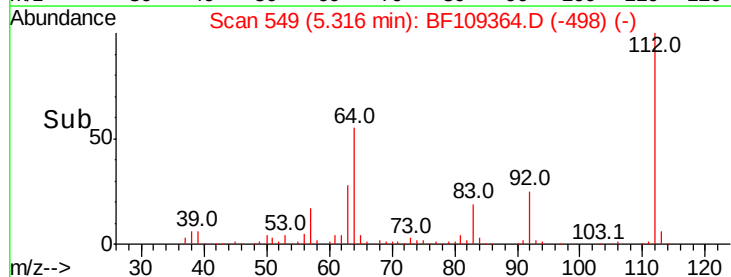
#5

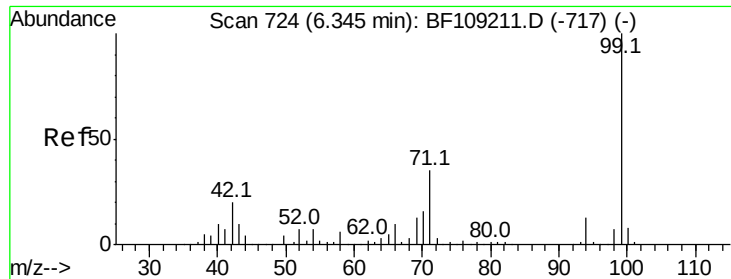
2-Fluorophenol  
Concen: 51.625 ng  
RT: 5.32 min Scan# 549  
Delta R.T. 0.00 min  
Lab File: BF109364.D  
Acq: 27 Sep 2018 4:03

Tgt Ion:112 Resp: 271090  
Ion Ratio Lower Upper  
112 100  
64 55.0 47.9 71.9  
63 28.5 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: 32.450 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109364.D

Acq: 27 Sep 2018 4:03

Instrument :

BNA\_F

ClientSampleId :

RFK-RMAB-MW13-GW

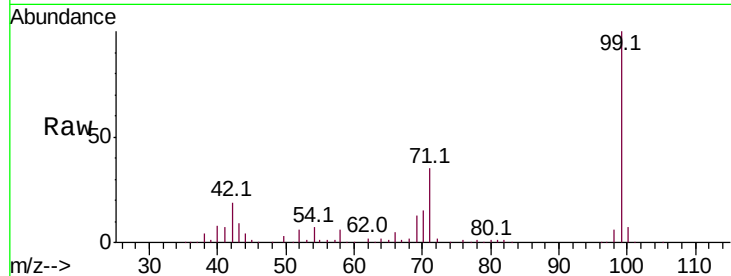
Tot Ion: 99 Resp: 217436

Ion Ratio Lower Upper

99 100

42 19.2 14.5 21.7

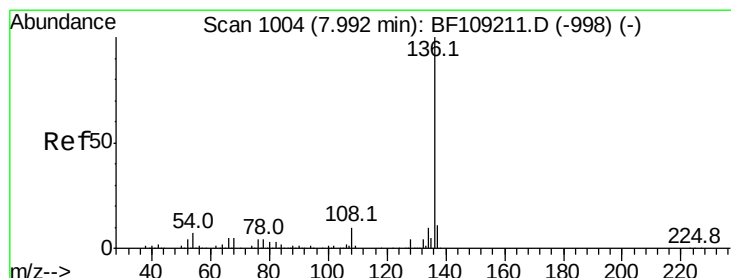
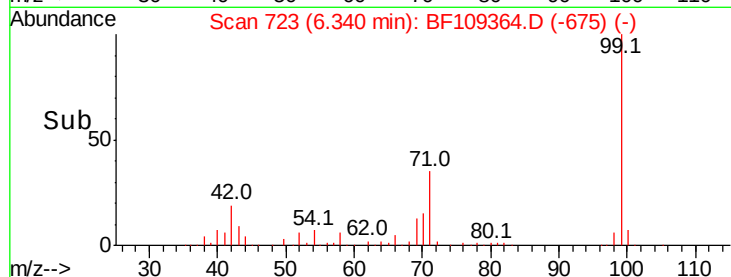
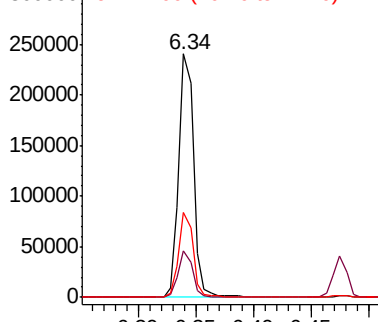
71 35.0 25.4 38.0



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: BF109364.D

Acq: 27 Sep 2018 4:03

Tgt Ion: 136 Resp: 296656

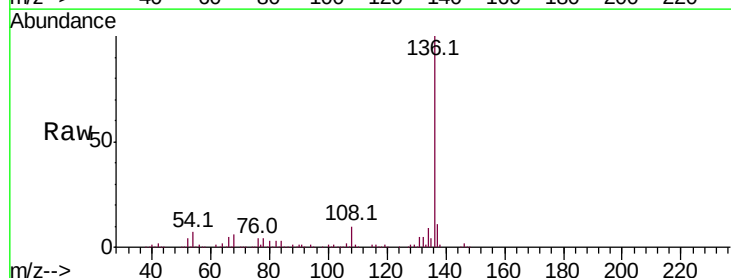
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.0 6.6 9.8

68 5.8 5.0 7.4

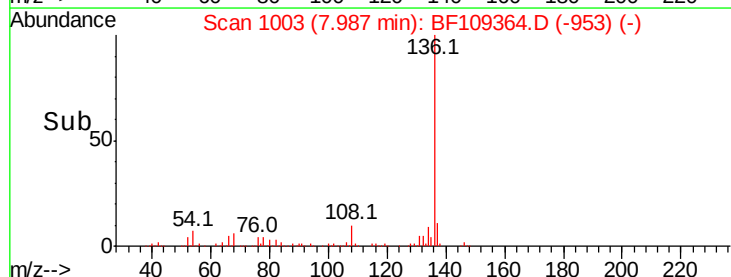
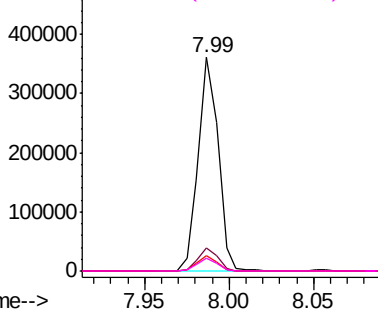


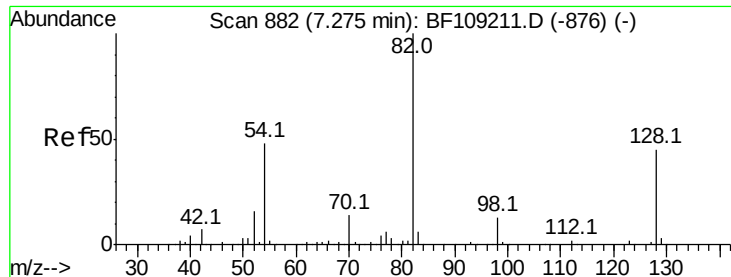
Abundance Ion 136.00 (135.70 to 136.70): E

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: 81.758 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF109364.D

Acq: 27 Sep 2018 4:03

Instrument :

BNA\_F

ClientSampleId :

RFK-RMAB-MW13-GW

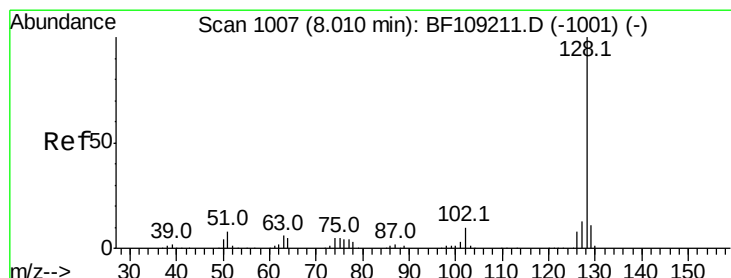
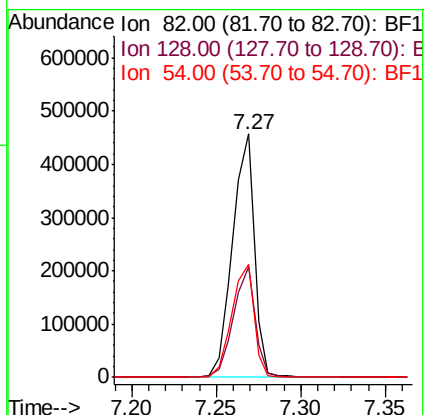
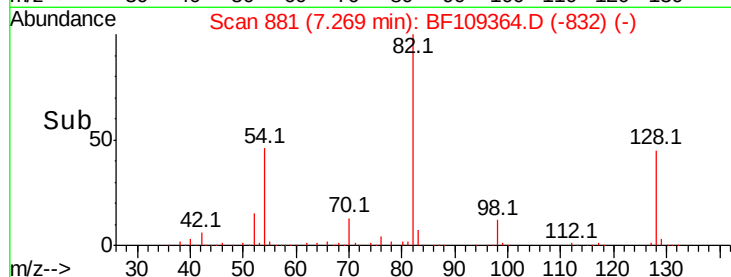
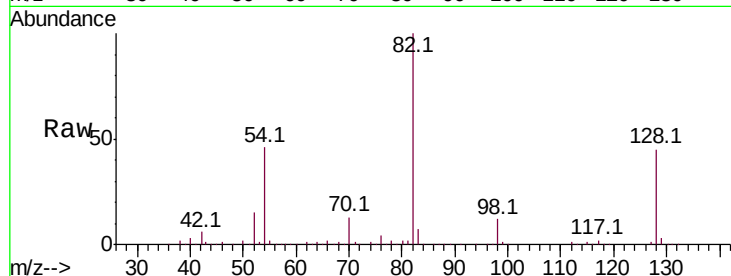
Tot Ion: 82 Resp: 410864

Ion Ratio Lower Upper

82 100

128 45.3 36.1 54.1

54 46.2 41.4 62.2



#31

Naphthalene

Concen: 13.808 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF109364.D

Acq: 27 Sep 2018 4:03

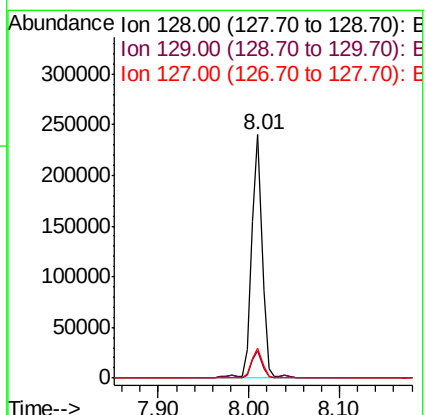
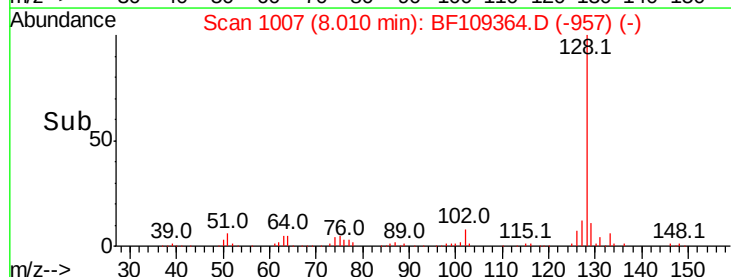
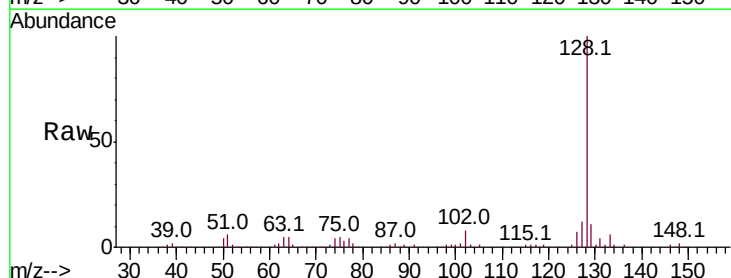
Tgt Ion: 128 Resp: 191421

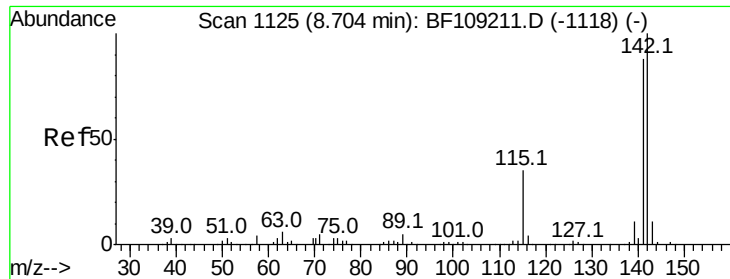
Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

127 12.5 10.9 16.3

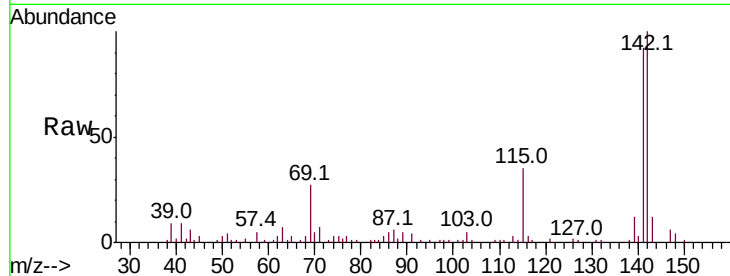




#37  
 2-Methylnaphthalene  
 Concen: 3.855 ng  
 RT: 8.70 min Scan# 1124  
 Delta R.T. -0.01 min  
 Lab File: BF109364.D  
 Acq: 27 Sep 2018 4:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RFK-RMAB-MW13-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.4  | 70.8  | 106.2 |
| 115     | 34.7  | 26.1  | 39.1  |

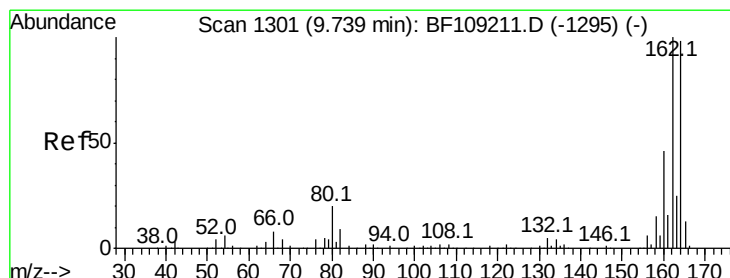
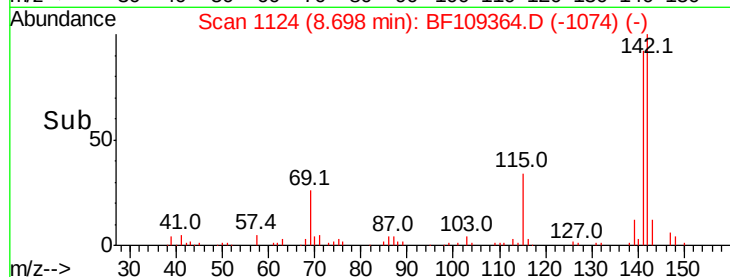
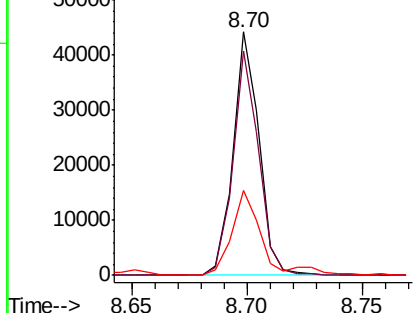


Abundance

Ion 142.00 (141.70 to 142.70): E

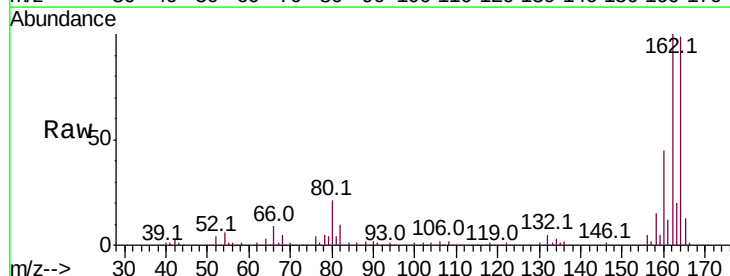
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.73 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BF109364.D  
 Acq: 27 Sep 2018 4:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.5 | 86.1  | 129.1 |
| 160     | 44.9  | 38.3  | 57.5  |

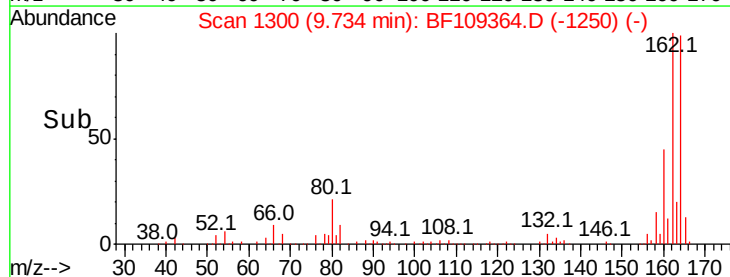
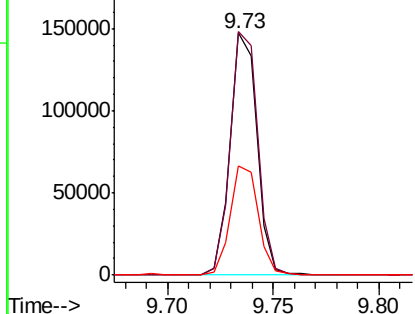


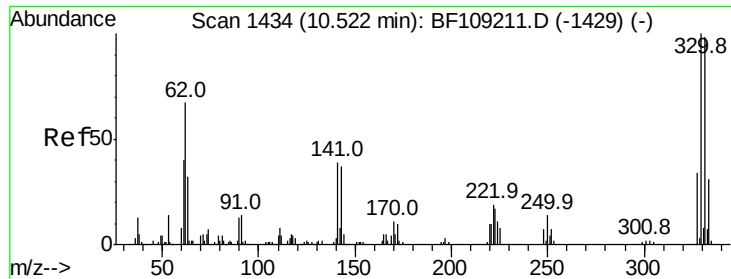
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

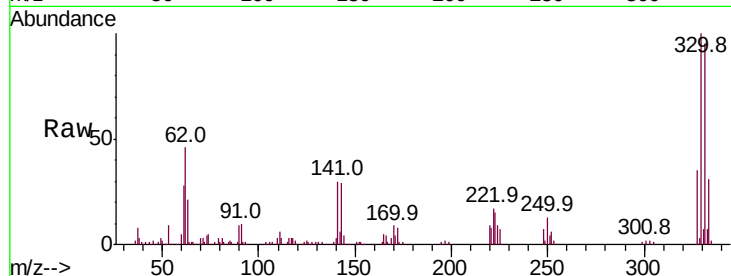




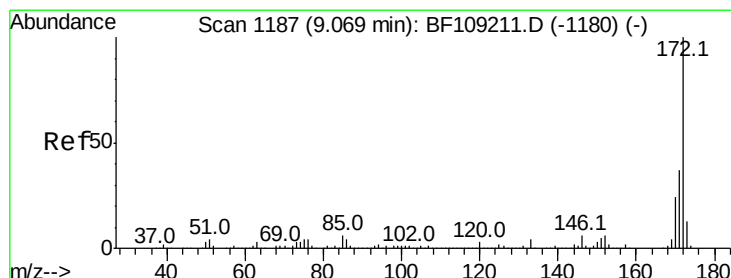
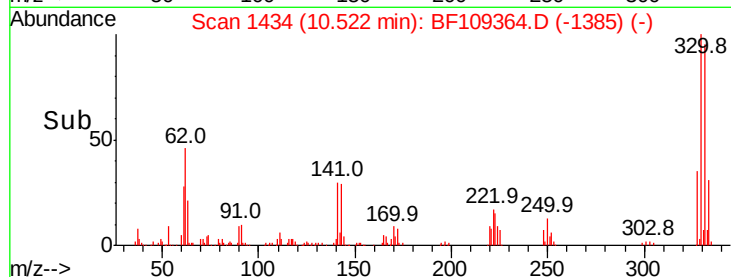
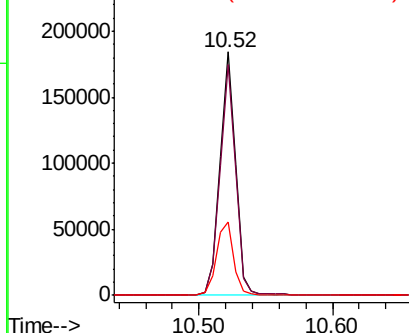
#41  
 2,4,6-Tribromophenol  
 Concen: 122.225 ng  
 RT: 10.52 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF109364.D  
 Acq: 27 Sep 2018 4:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RFK-RMAB-MW13-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.1  | 77.0  | 115.6 |
| 141     | 32.5  | 29.9  | 44.9  |

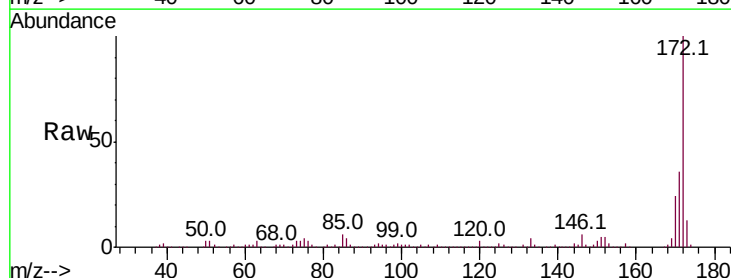


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

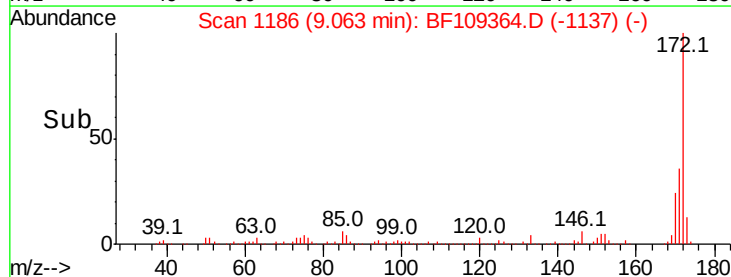
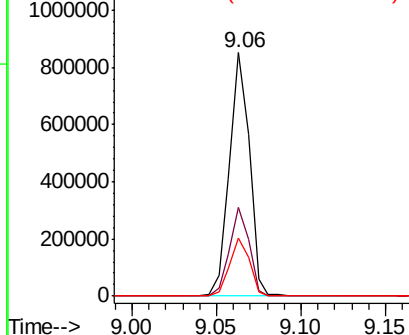


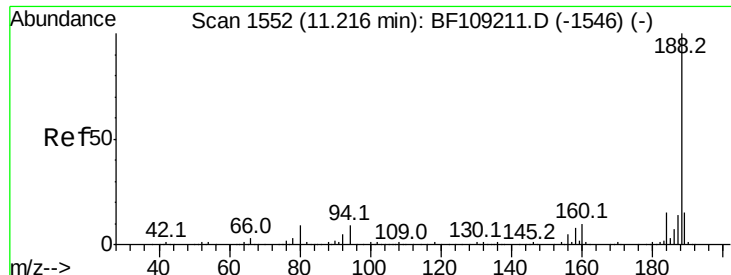
#44  
 2-Fluorobiphenyl  
 Concen: 82.516 ng  
 RT: 9.06 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF109364.D  
 Acq: 27 Sep 2018 4:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 23.6  | 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

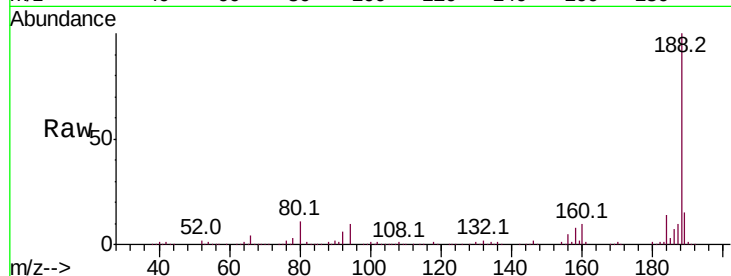




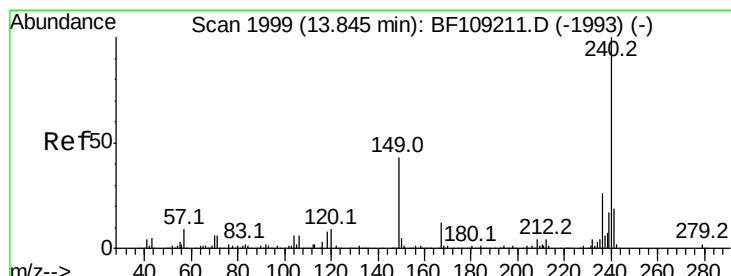
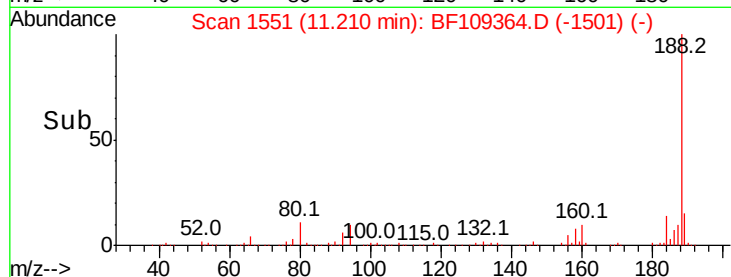
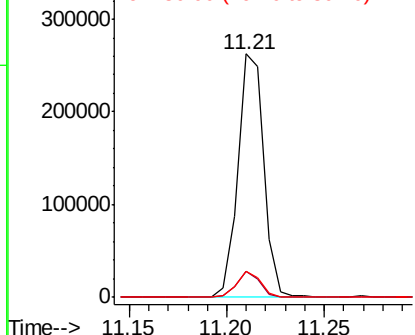
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.01 min  
Lab File: BF109364.D  
Acq: 27 Sep 2018 4:03

Instrument :  
BNA\_F  
ClientSampleId :  
RFK-RMAB-MW13-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.5  | 8.5   | 12.7  |
| 80      | 10.7  | 9.2   | 13.8  |

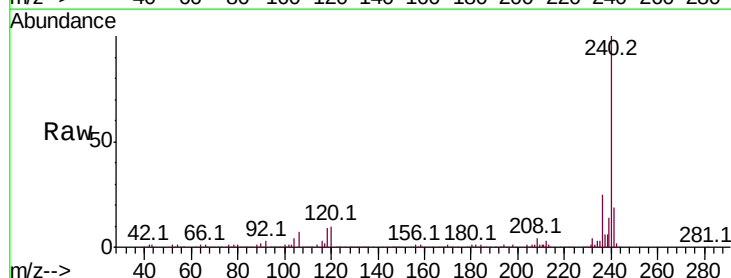


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

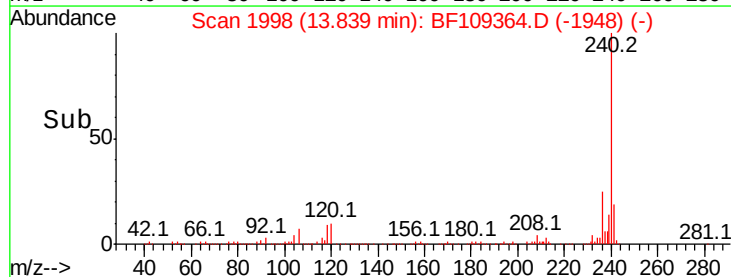
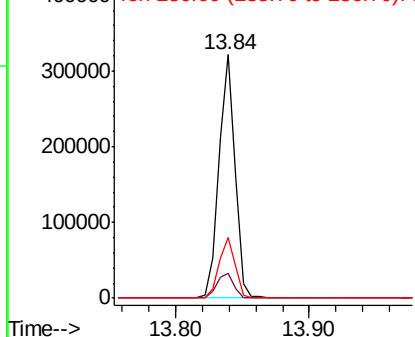


#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.84 min Scan# 1998  
Delta R.T. -0.01 min  
Lab File: BF109364.D  
Acq: 27 Sep 2018 4:03

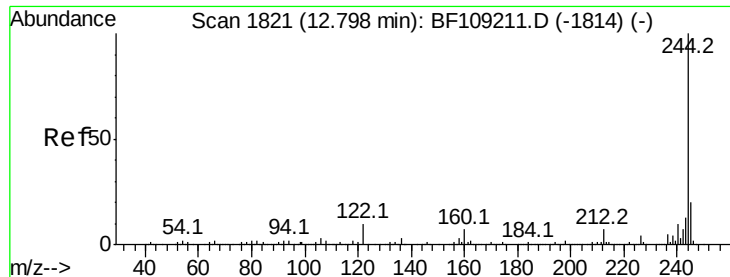
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.1  | 9.5   | 14.3  |
| 236     | 25.1  | 20.7  | 31.1  |



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: 67.995 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF109364.D

Acq: 27 Sep 2018 4:03

Instrument :

BNA\_F

ClientSampleId :

RFK-RMAB-MW13-GW

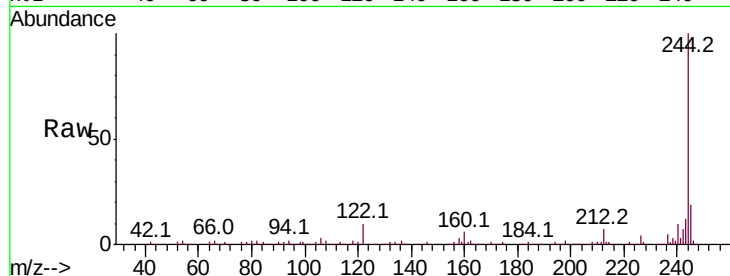
Tot Ion:244 Resp: 757148

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

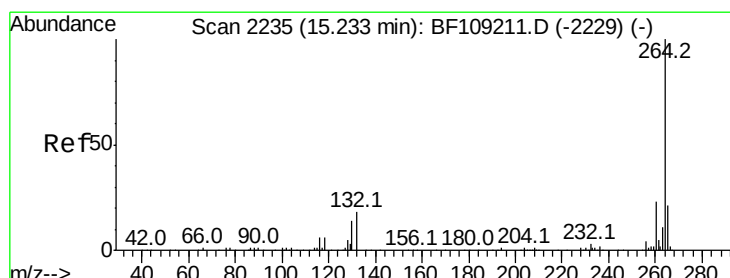
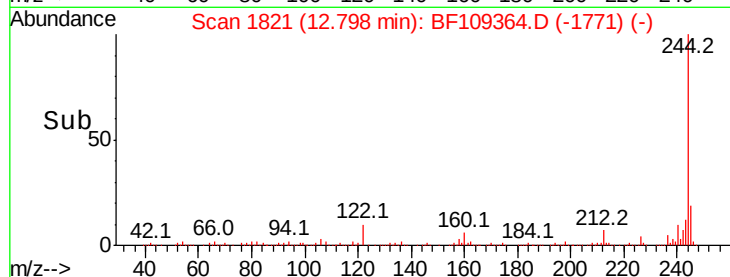
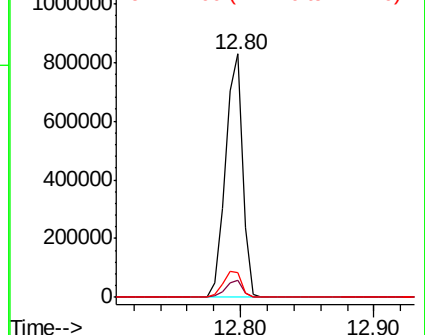
122 10.2 11.0 16.4#



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# 2236

Delta R.T. 0.00 min

Lab File: BF109364.D

Acq: 27 Sep 2018 4:03

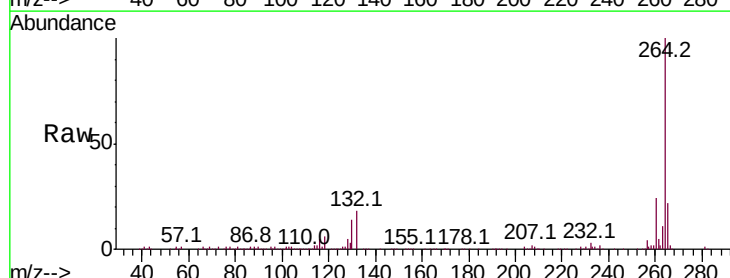
Tgt Ion:264 Resp: 232061

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 21.7 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

