

Data Path : Z:\HPCHEM1\BNA M\DATA\BM072717\  
 Data File : BM011029.D  
 Acq On : 28 Jul 2017 02:11  
 Operator : SJ/JU  
 Sample : I4446-12  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Jul 28 03:59:03 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM072617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 26 17:29:06 2017  
 Response via : Initial Calibration

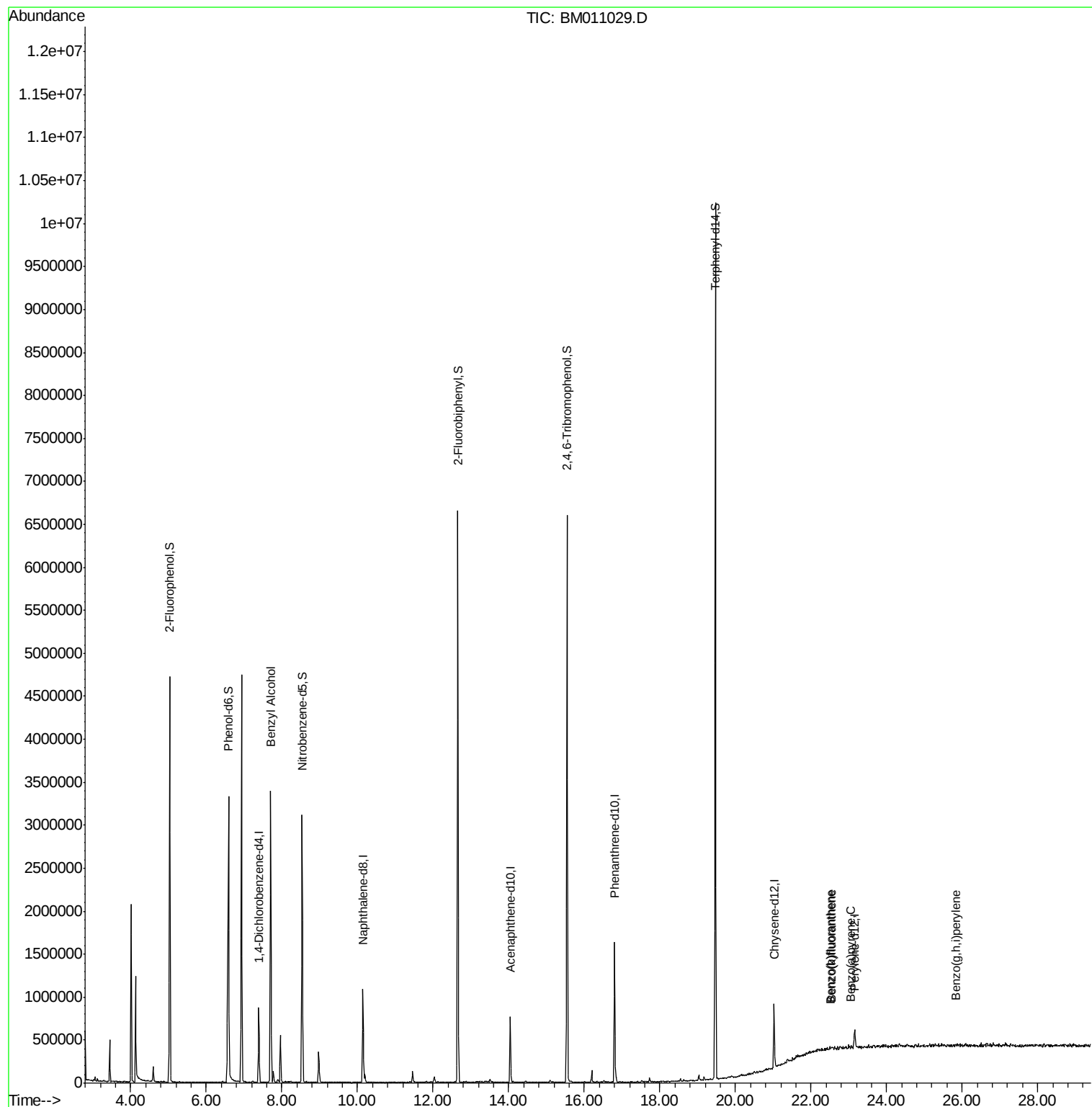
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.39  | 152  | 162297   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.15 | 136  | 618033   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.04 | 164  | 183960   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 16.80 | 188  | 753665   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 21.02 | 240  | 194563   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.14 | 264  | 4385     | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.03  | 112  | 1355426  | 141.18 | ng    | 0.00     |
| 7) Phenol-d6                | 6.59  | 99   | 1109209  | 81.31  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.53  | 82   | 1655126  | 100.51 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.55 | 330  | 881355   | 298.92 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.66 | 172  | 2867993  | 195.52 | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.47 | 244  | 3337781  | 339.82 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 15) Benzyl Alcohol          | 7.70  | 79   | 29169    | 2.23   | ng    | # 37     |
| 87) Benzo(b)fluoranthene    | 22.52 | 252  | 870      | 3.09   | ng    | # 1      |
| 88) Benzo(k)fluoranthene    | 22.55 | 252  | 1590     | 5.89   | ng    | # 85     |
| 89) Benzo(a)pyrene          | 23.05 | 252  | 986      | 3.87   | ng    | # 43     |
| 91) Benzo(g,h,i)perylene    | 25.84 | 276  | 884      | 3.81   | ng    | # 52     |

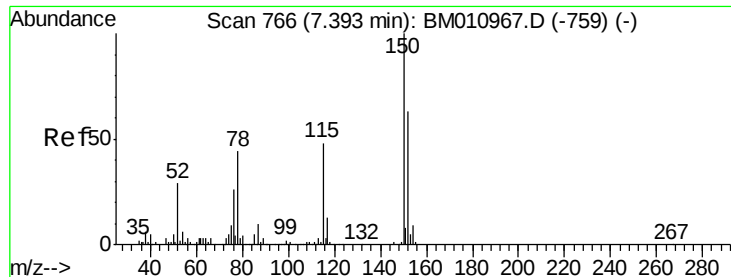
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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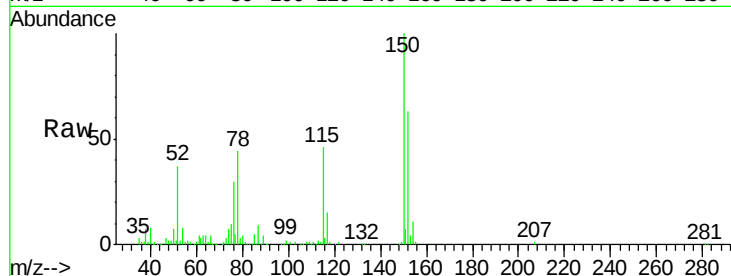


#1

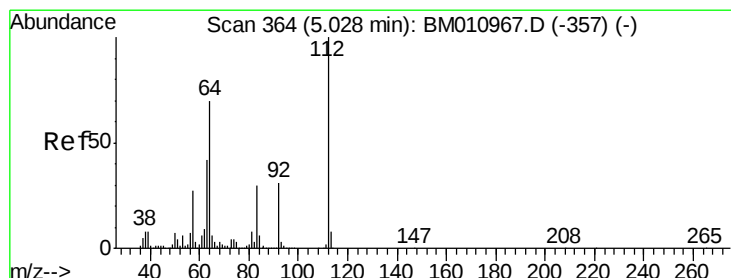
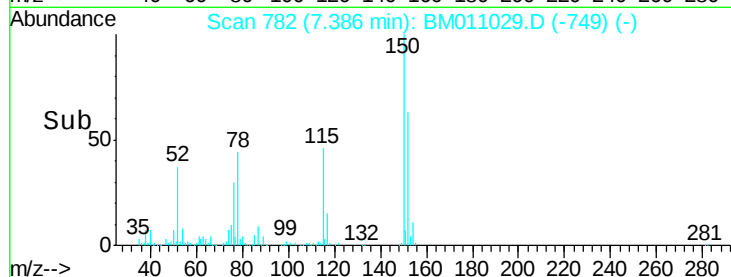
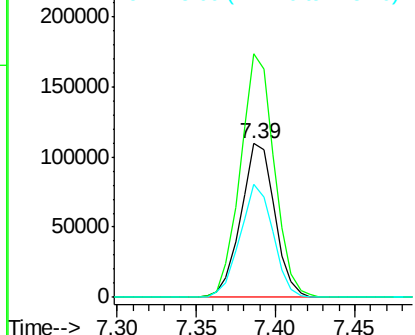
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.39 min Scan# 782  
Delta R.T. -0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

Instrument :  
BNA\_M  
ClientSampled :

Tot Ion:152 Resp: 162297  
Ion Ratio Lower Upper  
152 100  
150 158.5 119.5 179.3  
115 73.3 43.0 64.4#



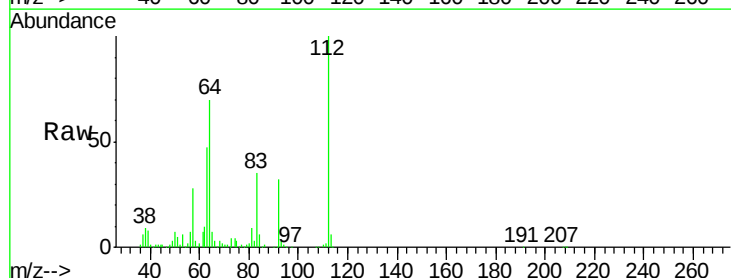
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



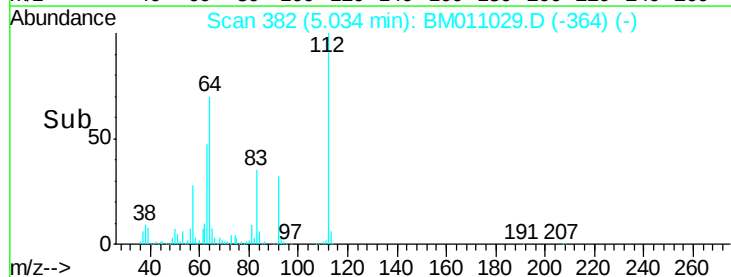
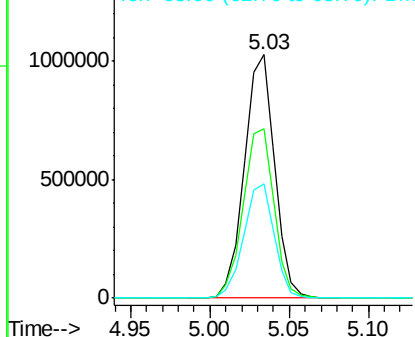
#5

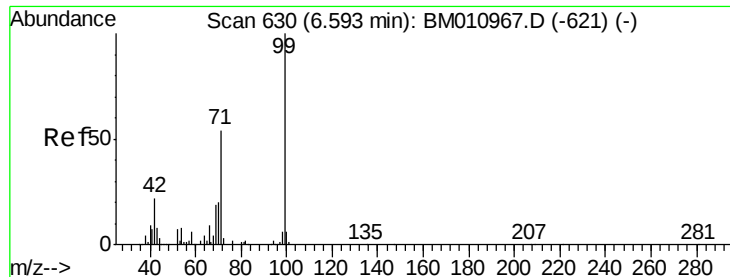
2-Fluorophenol  
Concen: 141.18 ng  
RT: 5.03 min Scan# 382  
Delta R.T. 0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

Tgt Ion:112 Resp: 1355426  
Ion Ratio Lower Upper  
112 100  
64 69.7 38.6 57.8#  
63 46.8 19.3 28.9#



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 81.31 ng

RT: 6.59 min Scan# 646

Delta R.T. -0.01 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

Instrument :

BNA\_M

ClientSampled :

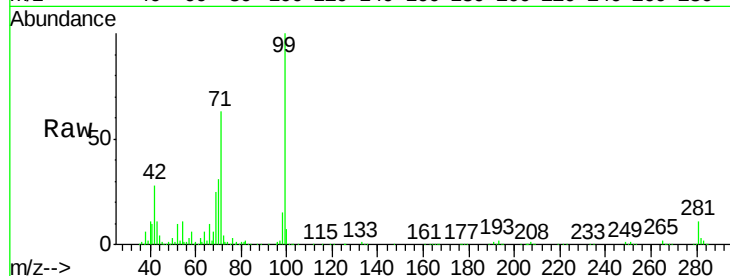
Tot Ion: 99 Resp: 1109209

Ion Ratio Lower Upper

99 100

42 27.6 11.0 16.4#

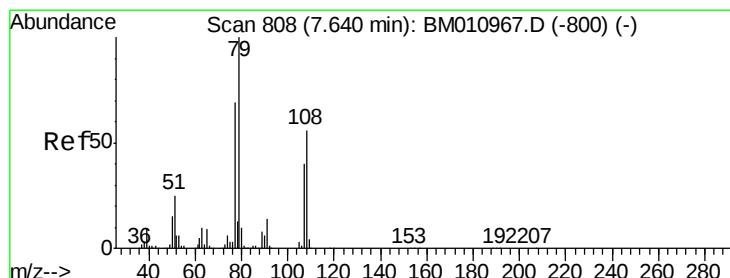
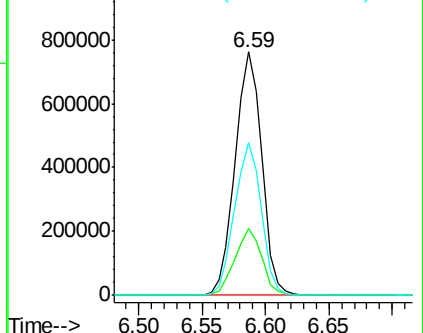
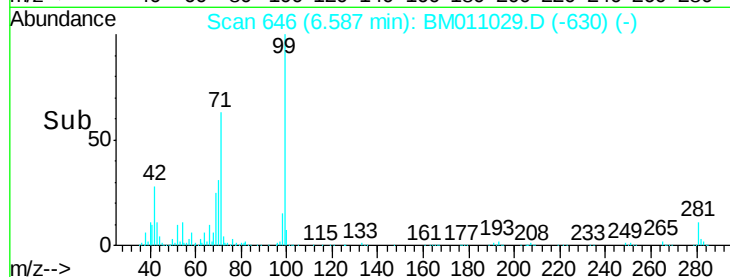
71 62.7 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM011029.D (-630) (-)

Ion 42.00 (41.70 to 42.70): BM011029.D (-630) (-)

Ion 71.00 (70.70 to 71.70): BM011029.D (-630) (-)



#15

Benzyl Alcohol

Concen: 2.23 ng

RT: 7.70 min Scan# 836

Delta R.T. 0.06 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

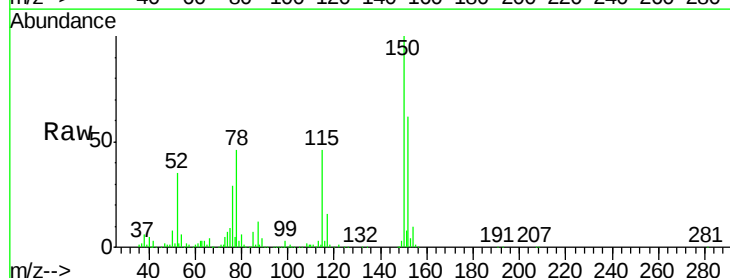
Tgt Ion: 79 Resp: 29169

Ion Ratio Lower Upper

79 100

108 50.6 65.0 97.4#

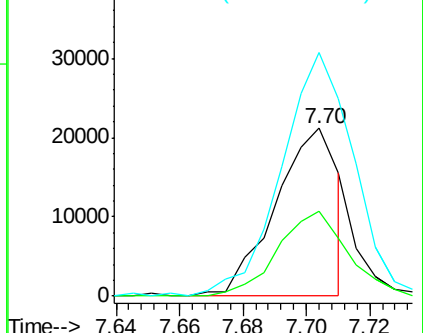
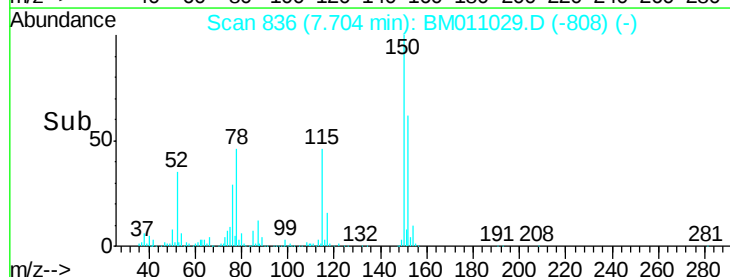
77 144.9 53.0 79.6#



Abundance Ion 79.00 (78.70 to 79.70): BM011029.D (-808) (-)

Ion 108.00 (107.70 to 108.70): BM011029.D (-808) (-)

Ion 77.00 (76.70 to 77.70): BM011029.D (-808) (-)

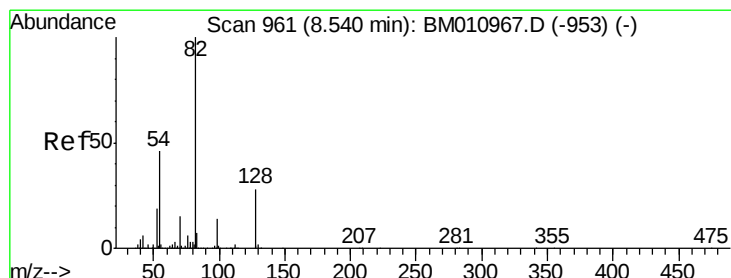
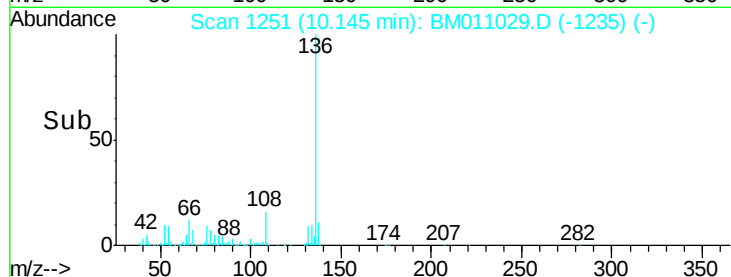
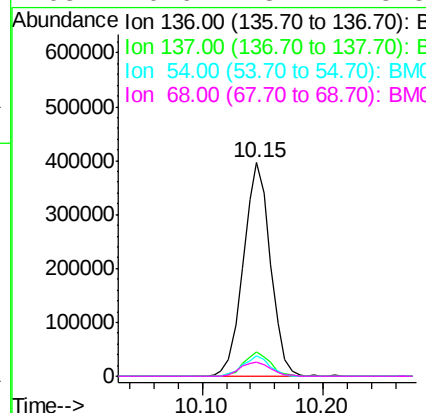
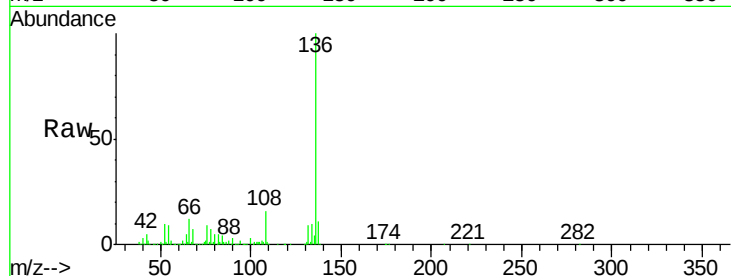




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.15 min Scan# 1251  
Delta R.T. -0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

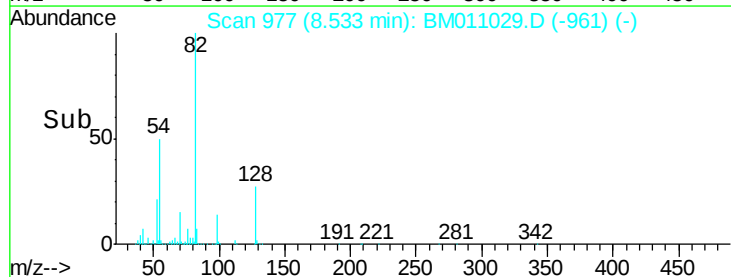
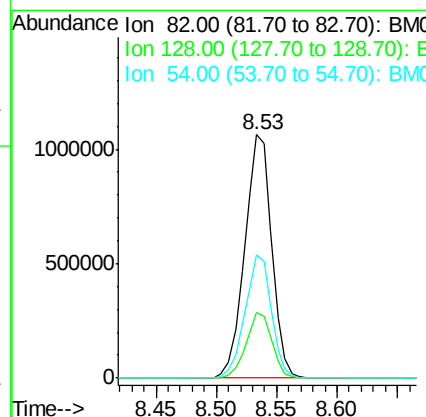
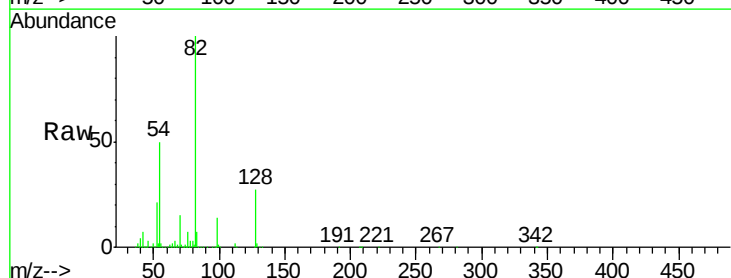
Instrument :  
BNA\_M  
ClientSampleId :

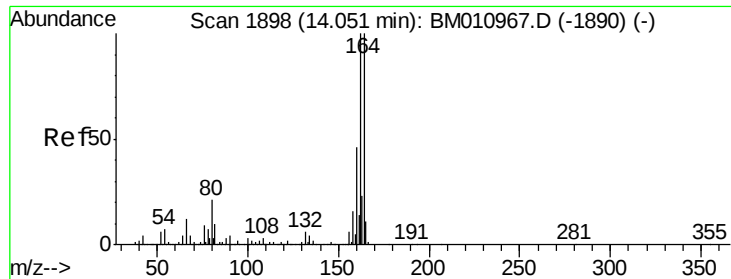
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.1  | 8.7   | 13.1  |
| 54      | 9.4   | 4.6   | 6.8#  |
| 68      | 6.6   | 3.7   | 5.5#  |



#23  
Nitrobenzene-d5  
Concen: 100.51 ng  
RT: 8.53 min Scan# 977  
Delta R.T. -0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 27.2  | 32.8  | 49.2# |
| 54      | 50.5  | 40.6  | 60.8  |

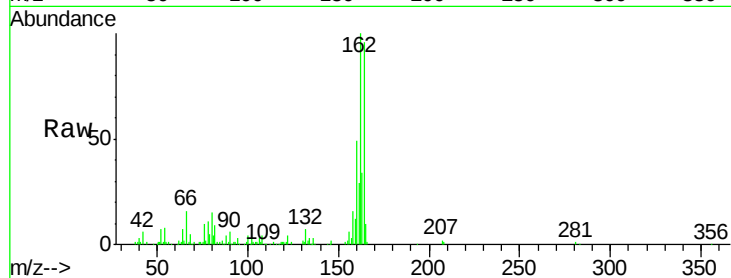




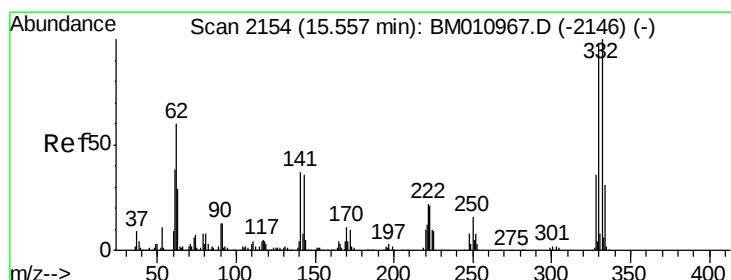
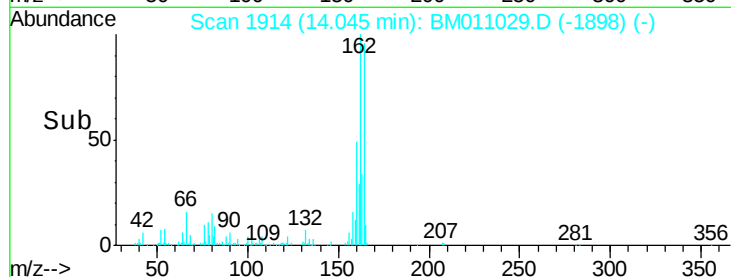
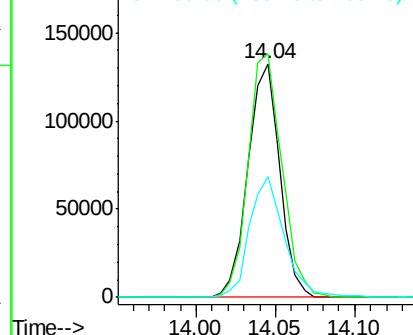
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.04 min Scan# 1914  
Delta R.T. -0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.1 | 82.4  | 123.6 |
| 160     | 51.5  | 35.8  | 53.6  |

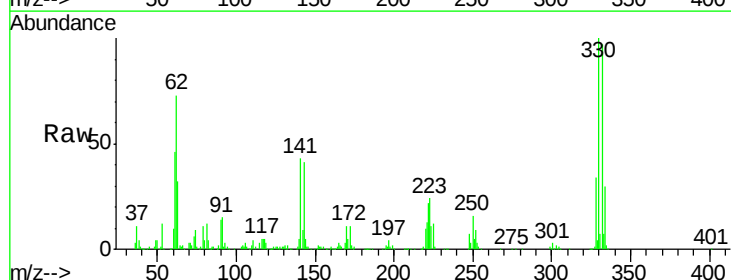


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

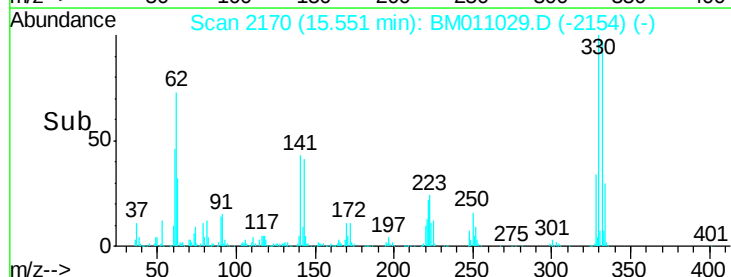
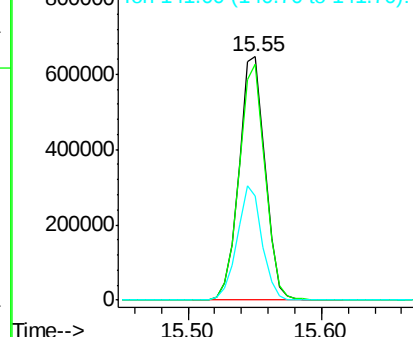


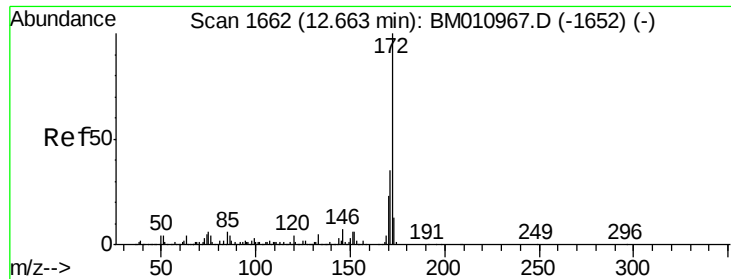
#41  
2,4,6-Tribromophenol  
Concen: 298.92 ng  
RT: 15.55 min Scan# 2170  
Delta R.T. -0.01 min  
Lab File: BM011029.D  
Acq: 28 Jul 2017 02:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 0.0   | 0.0#  |
| 141     | 44.9  | 0.0   | 0.0#  |



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



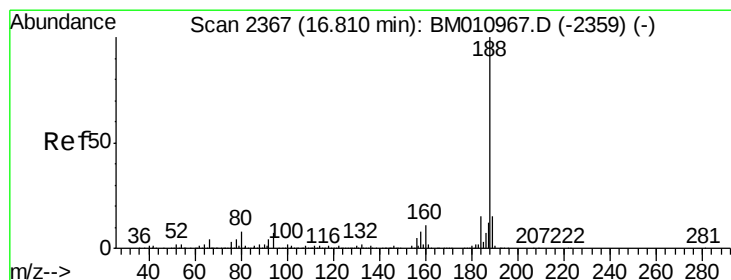
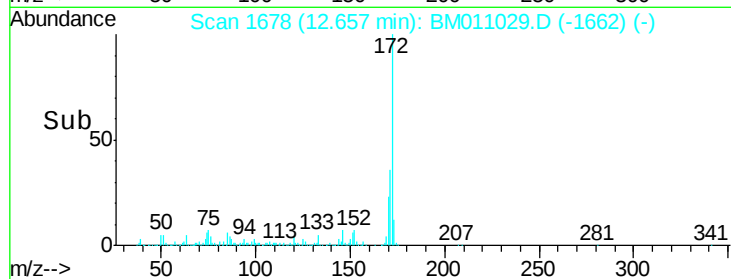
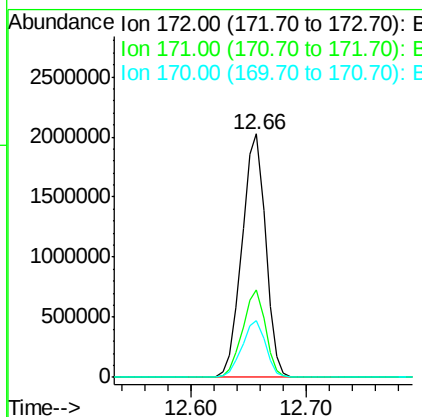
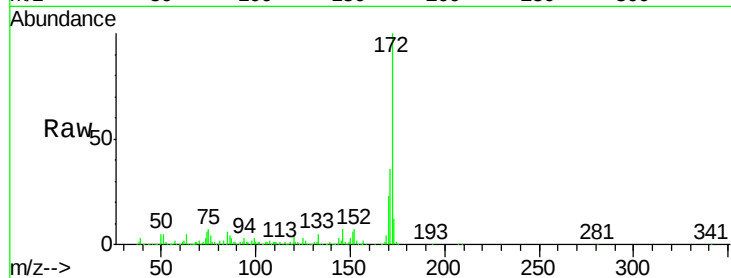


#44  
 2-Fluorobiphenyl  
 Concen: 195.52 ng  
 RT: 12.66 min Scan# 1678  
 Delta R.T. -0.01 min  
 Lab File: BM011029.D  
 Acq: 28 Jul 2017 02:11

Instrument :  
 BNA\_M  
 ClientSampled :

Tot Ion:172 Resp: 2867993  

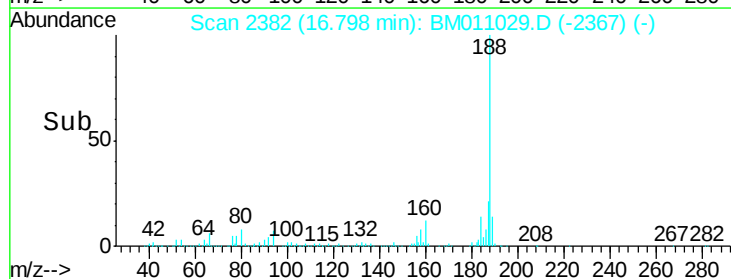
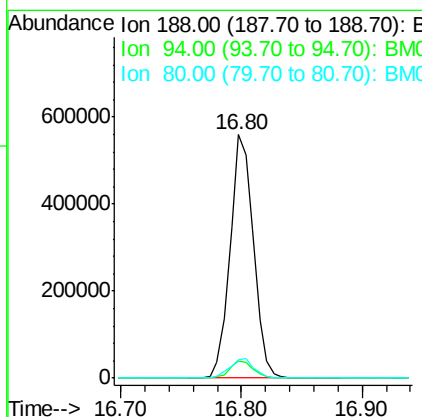
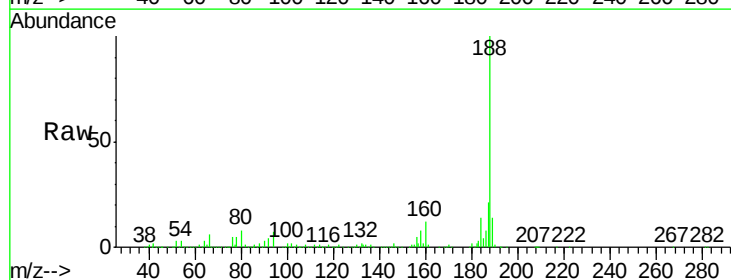
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.8  | 28.5  | 42.7  |
| 170 | 23.1  | 18.8  | 28.2  |

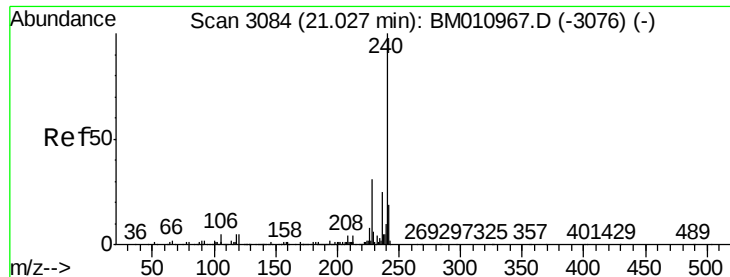


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 16.80 min Scan# 2382  
 Delta R.T. -0.01 min  
 Lab File: BM011029.D  
 Acq: 28 Jul 2017 02:11

Tgt Ion:188 Resp: 753665  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 6.8   | 8.7   | 13.1# |
| 80  | 7.8   | 9.3   | 13.9# |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.02 min Scan# 3100

Delta R.T. -0.01 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

Instrument :

BNA\_M

ClientSampleId :

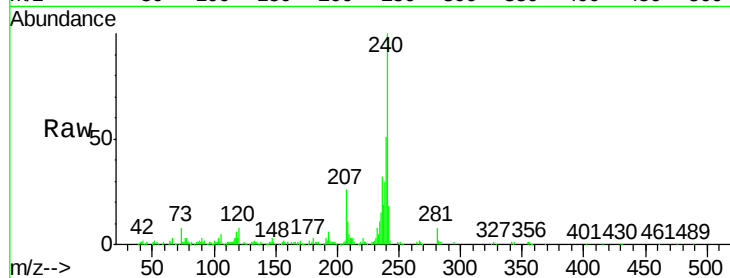
Tot Ion:240 Resp: 194563

Ion Ratio Lower Upper

240 100

120 7.5 8.2 12.2#

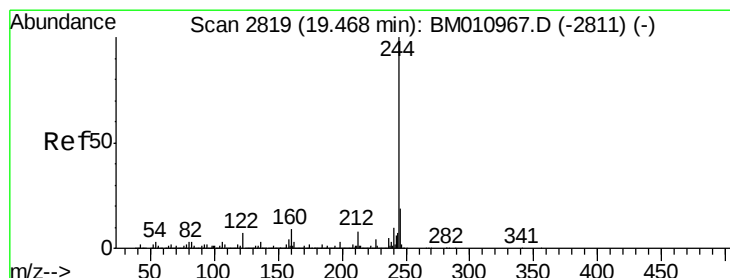
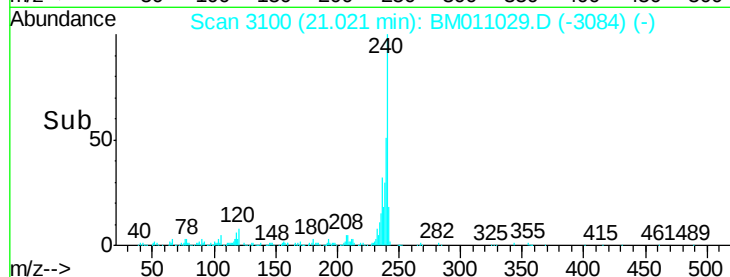
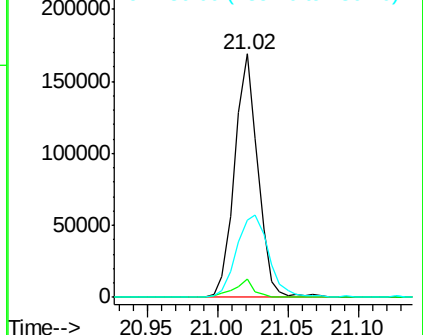
236 31.8 20.0 30.0#



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: 339.82 ng

RT: 19.47 min Scan# 2836

Delta R.T. -0.00 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

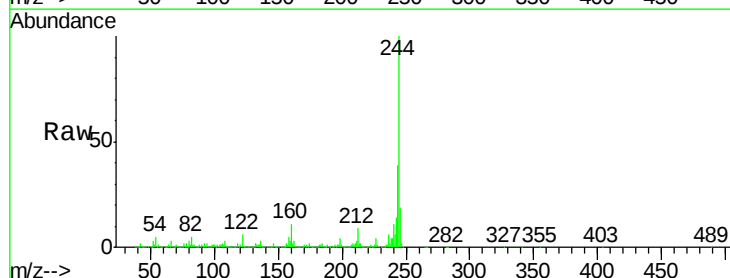
Tgt Ion:244 Resp: 3337781

Ion Ratio Lower Upper

244 100

212 8.6 4.9 7.3#

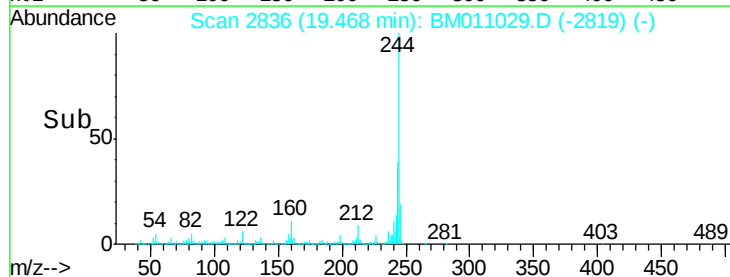
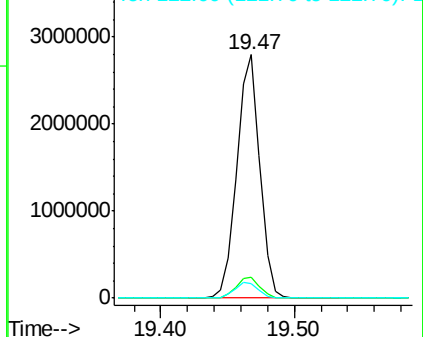
122 6.0 6.2 9.4#

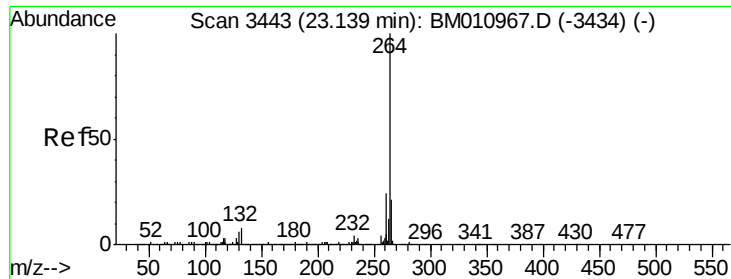


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

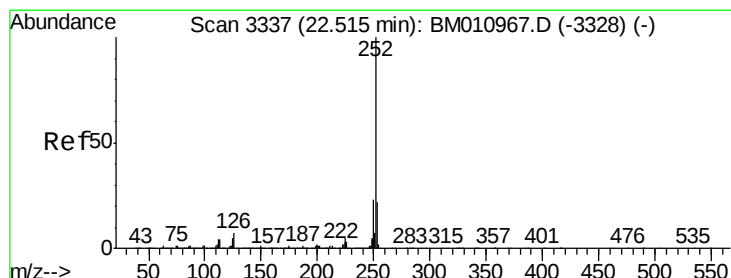
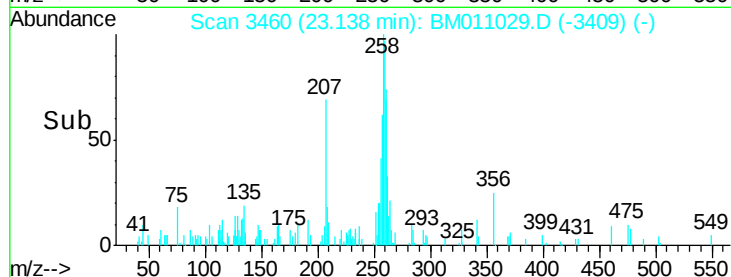
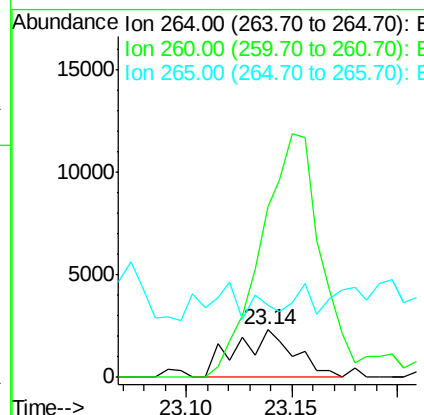
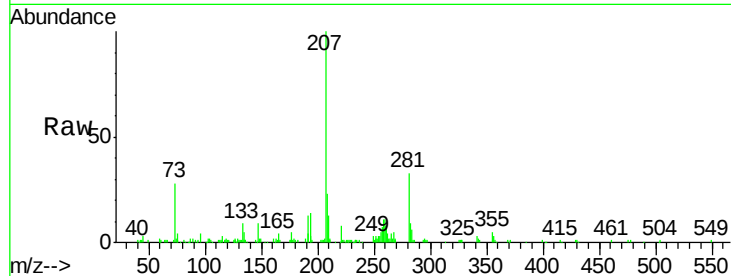




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 23.14 min Scan# 3460  
 Delta R.T. -0.00 min  
 Lab File: BM011029.D  
 Acq: 28 Jul 2017 02:11

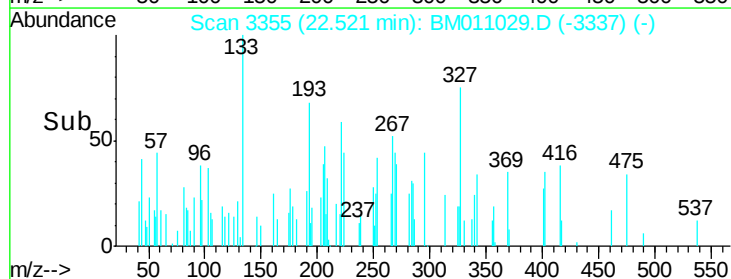
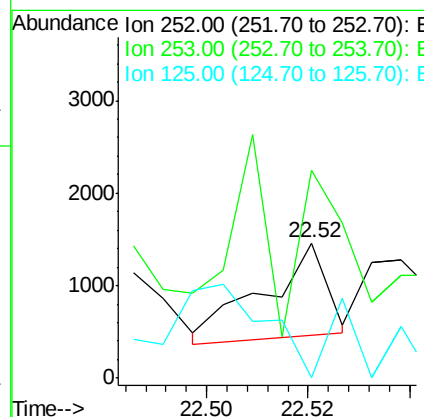
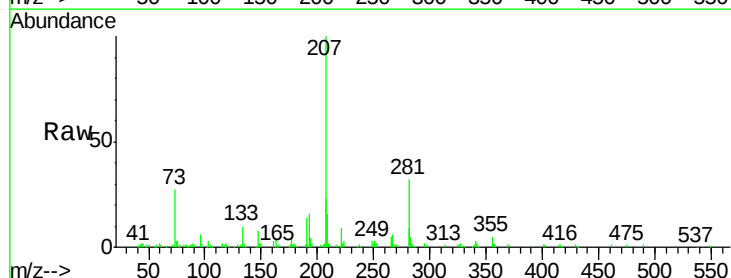
Instrument :  
 BNA\_M  
 ClientSampleId :

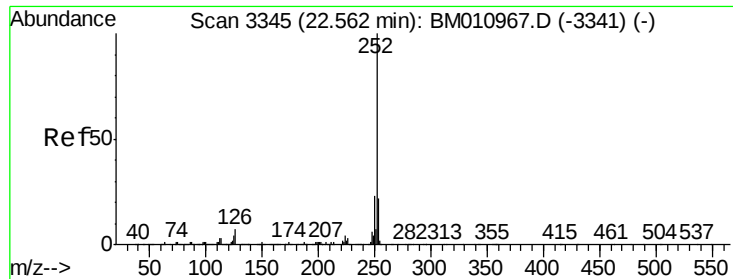
Tot Ion:264 Resp: 4385  
 Ion Ratio Lower Upper  
 264 100  
 260 358.2 18.6 27.8#  
 265 152.8 17.3 25.9#



#87  
 Benzo(b)fluoranthene  
 Concen: 3.09 ng  
 RT: 22.52 min Scan# 3355  
 Delta R.T. 0.01 min  
 Lab File: BM011029.D  
 Acq: 28 Jul 2017 02:11

Tgt Ion:252 Resp: 870  
 Ion Ratio Lower Upper  
 252 100  
 253 153.8 18.0 27.0#  
 125 0.0 9.9 14.9#





#88

Benzo(k)fluoranthene

Concen: 5.89 ng

RT: 22.55 min Scan# 3360

Delta R.T. -0.01 min

Lab File: BM011029.D

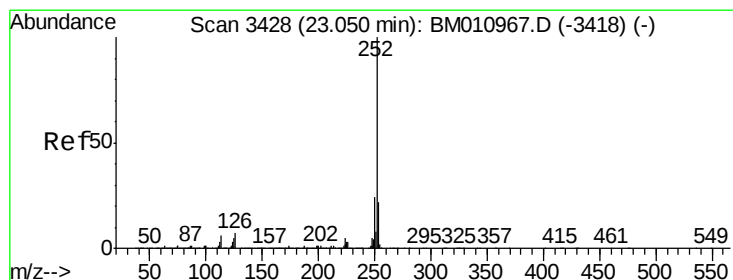
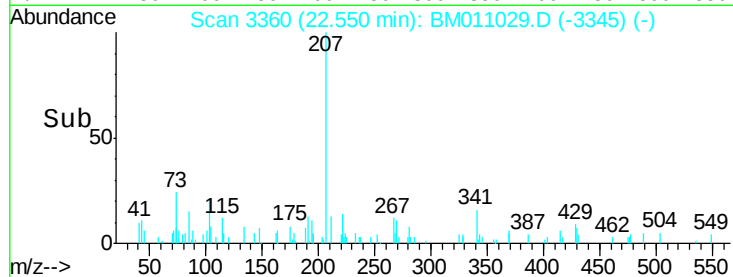
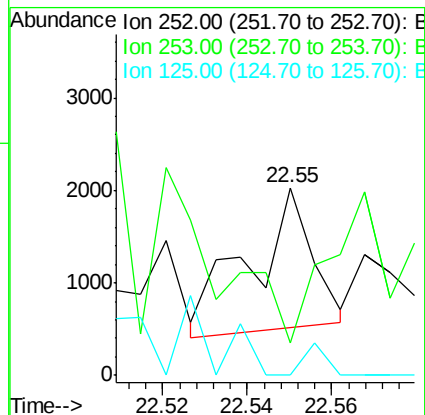
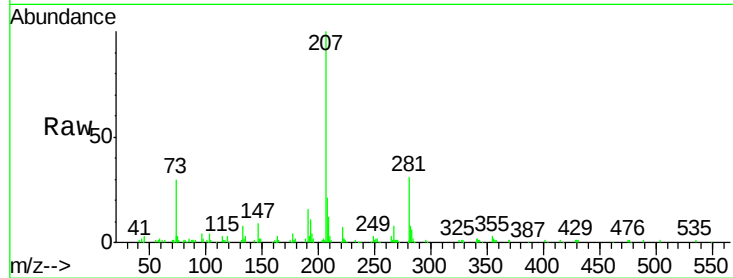
Acq: 28 Jul 2017 02:11

Instrument :

BNA\_M

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 252   | Resp: | 1590  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 17.0  | 17.2  | 25.8# |
| 125      | 0.0   | 8.1   | 12.1# |



#89

Benzo(a)pyrene

Concen: 3.87 ng

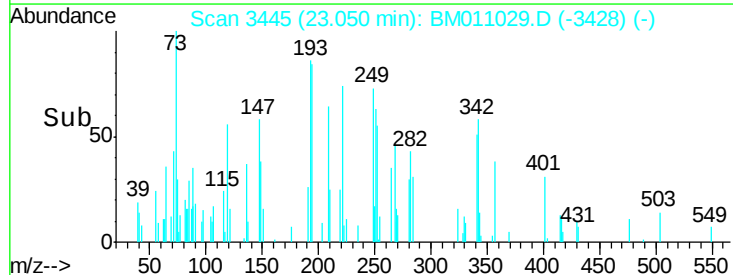
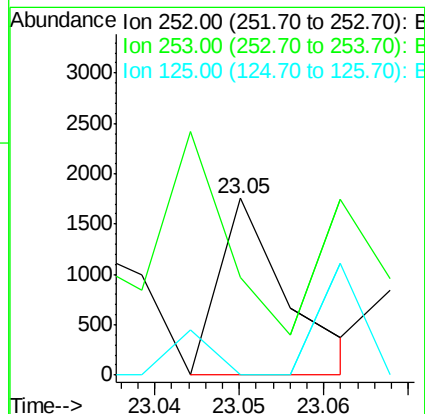
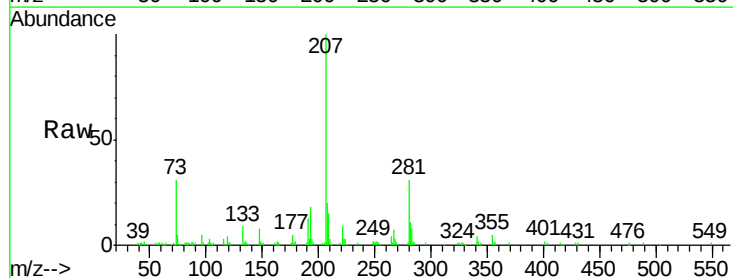
RT: 23.05 min Scan# 3445

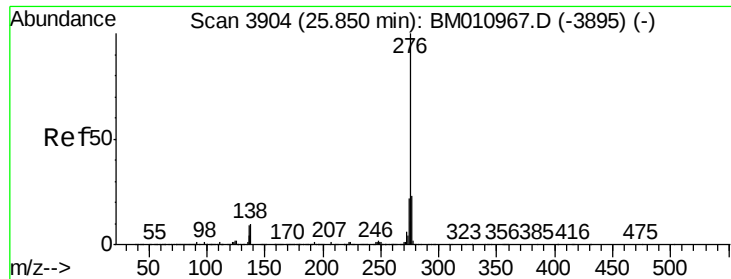
Delta R.T. -0.00 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 986   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 55.4  | 17.6  | 26.4# |
| 125      | 0.0   | 7.4   | 11.2# |





#91

Benzo(a,h,i)perylene

Concen: 3.81 ng

RT: 25.84 min Scan# 3919

Delta R.T. -0.01 min

Lab File: BM011029.D

Acq: 28 Jul 2017 02:11

Instrument :

BNA\_M

ClientSampleId :

Tot Ion: 276 Resp: 884

Ion Ratio Lower Upper

276 100

277 0.0 18.5 27.7#

138 0.0 19.0 28.6#

