

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081718\  
 Data File : BM016471.D  
 Acq On : 18 Aug 2018 13:29  
 Operator : SJ/JU  
 Sample : J4521-21  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 20 01:17:01 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM081718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 17 16:27:00 2018  
 Response via : Initial Calibration

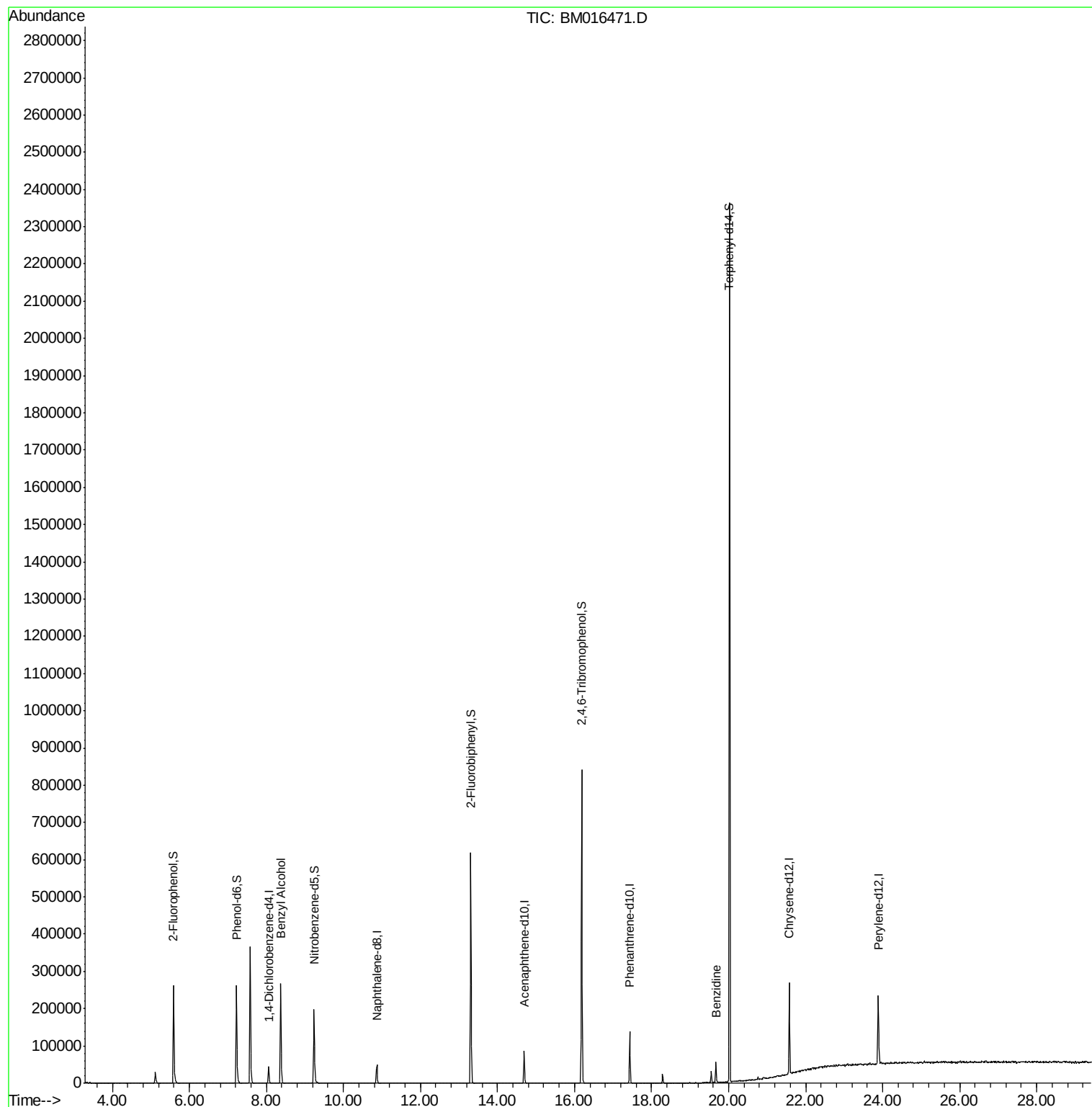
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.06  | 152  | 8476     | 20.00  | ng    | 0.00       |
| 21) Naphthalene-d8          | 10.86 | 136  | 31696    | 20.00  | ng    | 0.00       |
| 38) Acenaphthene-d10        | 14.69 | 164  | 21965    | 20.00  | ng    | -0.01      |
| 63) Phenanthrene-d10        | 17.43 | 188  | 64504    | 20.00  | ng    | -0.01      |
| 75) Chrysene-d12            | 21.58 | 240  | 98785    | 20.00  | ng    | 0.00       |
| 86) Perylene-d12            | 23.88 | 264  | 115003   | 20.00  | ng    | -0.02      |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.59  | 112  | 76010    | 150.71 | ng    | 0.00       |
| 7) Phenol-d6                | 7.22  | 99   | 83926    | 123.80 | ng    | -0.01      |
| 23) Nitrobenzene-d5         | 9.24  | 82   | 90093    | 118.38 | ng    | 0.00       |
| 41) 2,4,6-Tribromophenol    | 16.19 | 330  | 70080    | 211.24 | ng    | -0.01      |
| 44) 2-Fluorobiphenyl        | 13.31 | 172  | 209615   | 99.23  | ng    | -0.01      |
| 78) Terphenyl-d14           | 20.03 | 244  | 758590   | 116.07 | ng    | 0.00       |
| Target Compounds            |       |      |          |        |       |            |
| 15) Benzyl Alcohol          | 8.37  | 79   | 1879     | 3.054  | ng    | Qvalue # 1 |
| 76) Benzidine               | 19.67 | 184  | 25398    | 11.682 | ng    | 98         |

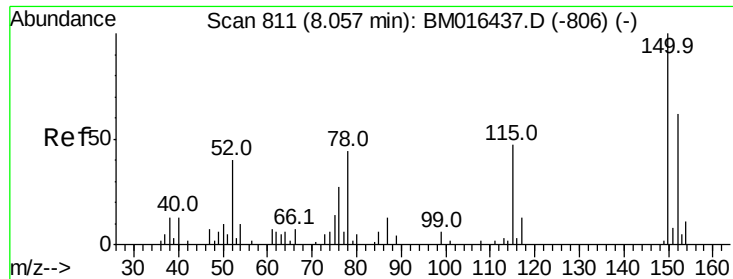
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM081718\  
Data File : BM016471.D  
Acq On : 18 Aug 2018 13:29  
Operator : SJ/JU  
Sample : J4521-21  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :

Quant Time: Aug 20 01:17:01 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM081718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 17 16:27:00 2018  
Response via : Initial Calibration



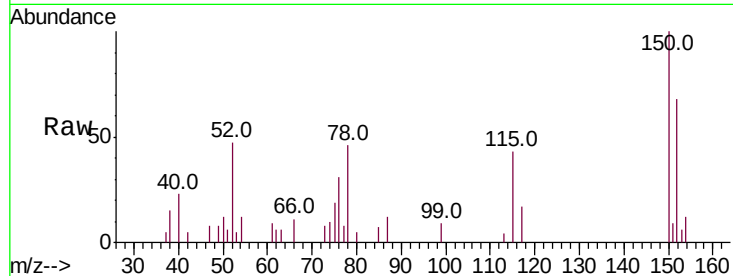


#1

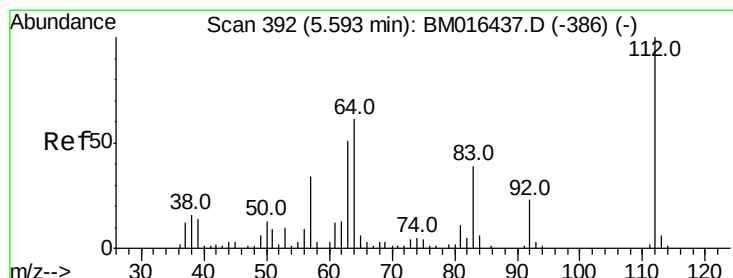
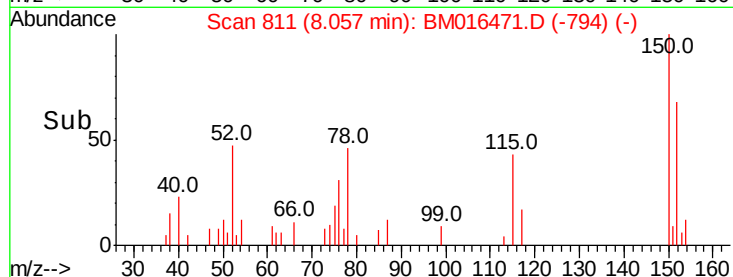
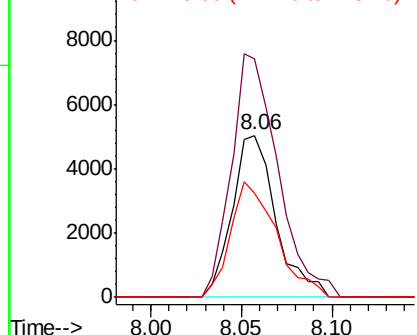
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

Instrument :  
BNA\_M  
ClientSampled :

Tot Ion:152 Resp: 8476  
Ion Ratio Lower Upper  
152 100  
150 147.3 119.5 179.3  
115 63.8 43.0 64.4



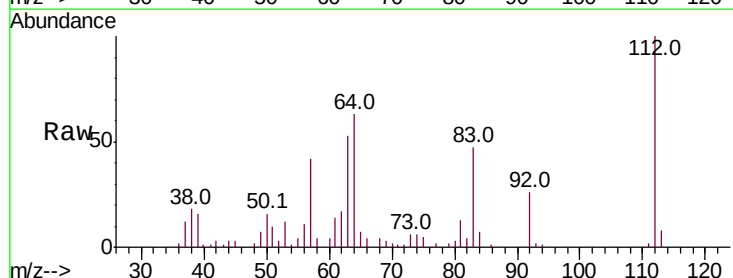
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



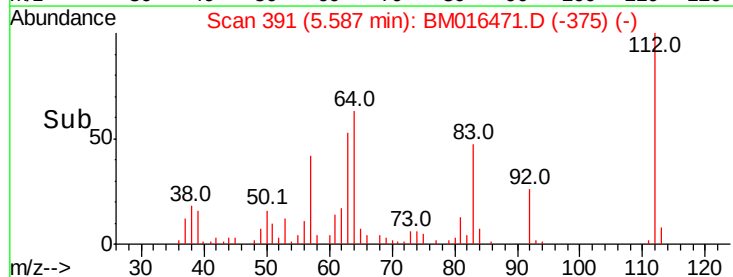
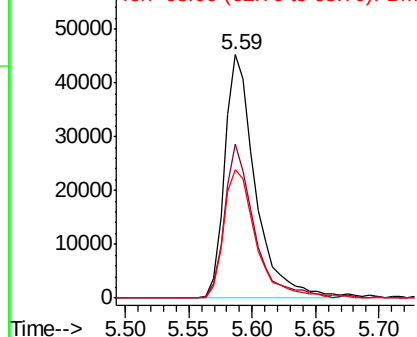
#5

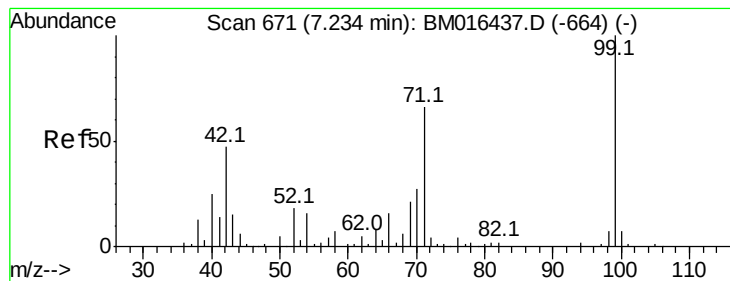
2-Fluorophenol  
Concen: N.D. ng  
RT: 5.59 min Scan# 391  
Delta R.T. -0.01 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

Tgt Ion:112 Resp: 76010  
Ion Ratio Lower Upper  
112 100  
64 63.5 38.6 57.8#  
63 53.0 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: N.D. na

RT: 7.22 min Scan# 669

Delta R.T. -0.01 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

Instrument :

BNA\_M

ClientSampleId :

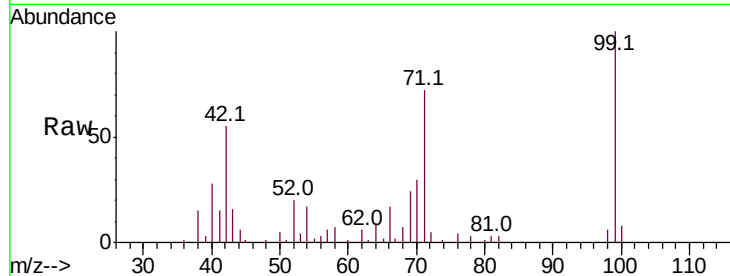
Tot Ion: 99 Resp: 83926

Ion Ratio Lower Upper

99 100

42 54.5 11.0 16.4#

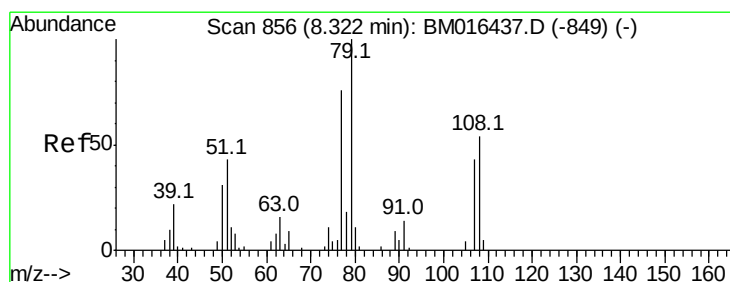
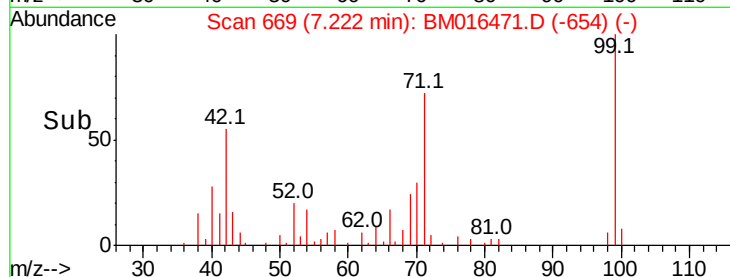
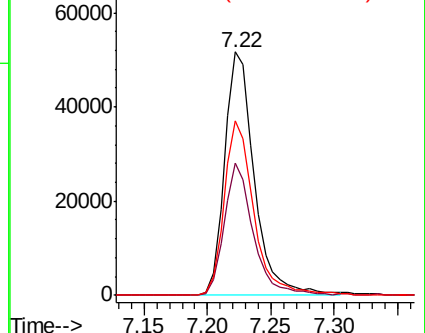
71 71.9 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM016471.D (-664) (-)

Ion 42.00 (41.70 to 42.70): BM016471.D (-664) (-)

Ion 71.00 (70.70 to 71.70): BM016471.D (-664) (-)



#15

Benzyl Alcohol

Concen: 3.054 ng

RT: 8.37 min Scan# 864

Delta R.T. 0.05 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

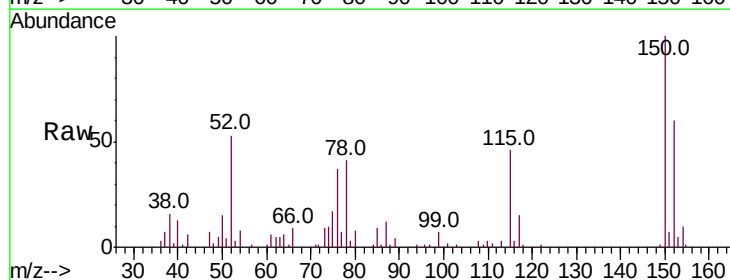
Tgt Ion: 79 Resp: 1879

Ion Ratio Lower Upper

79 100

108 113.0 65.0 97.4#

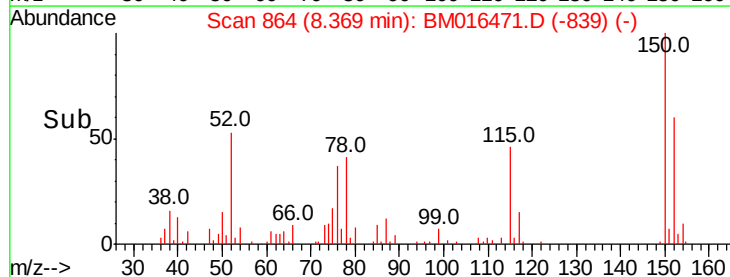
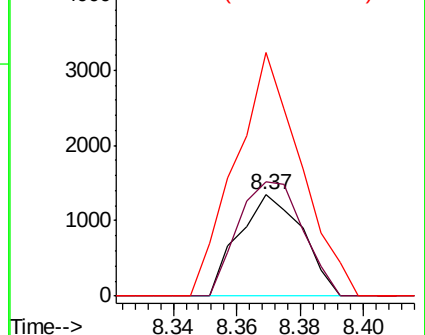
77 240.9 53.0 79.6#

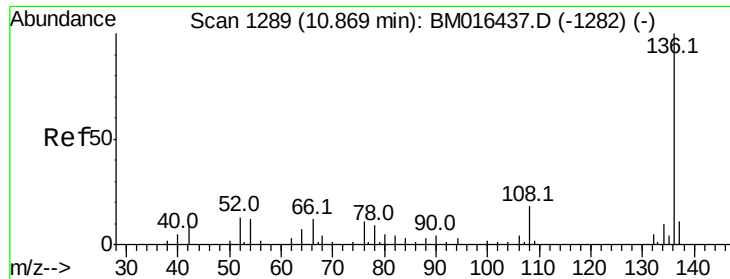


Abundance Ion 79.00 (78.70 to 79.70): BM016471.D (-849) (-)

Ion 108.00 (107.70 to 108.70): BM016471.D (-849) (-)

Ion 77.00 (76.70 to 77.70): BM016471.D (-849) (-)

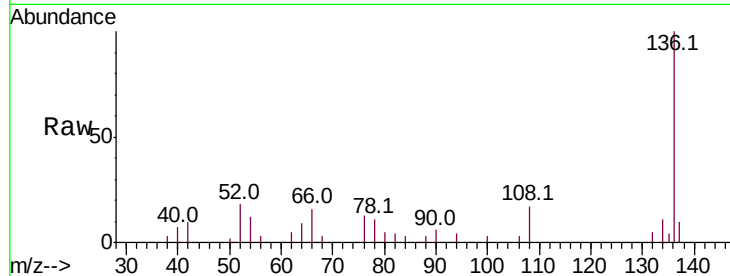




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

Instrument :  
BNA\_M  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 136   | Resp: | 31696 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 9.8   | 8.7   | 13.1  |
| 54       | 11.8  | 4.6   | 6.8#  |
| 68       | 3.0   | 3.7   | 5.5#  |



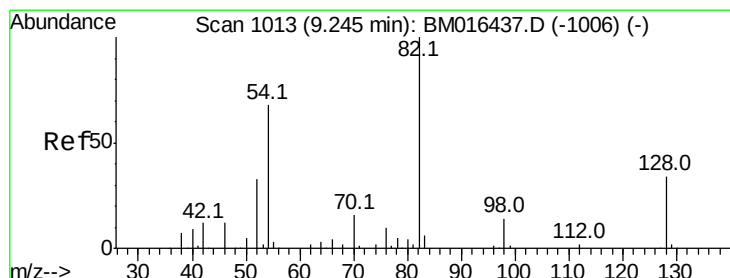
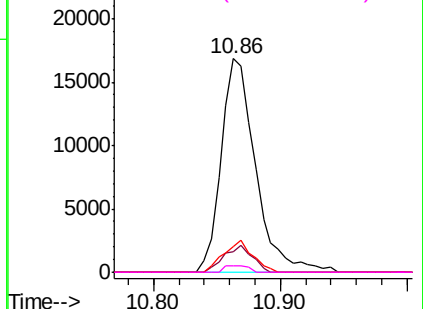
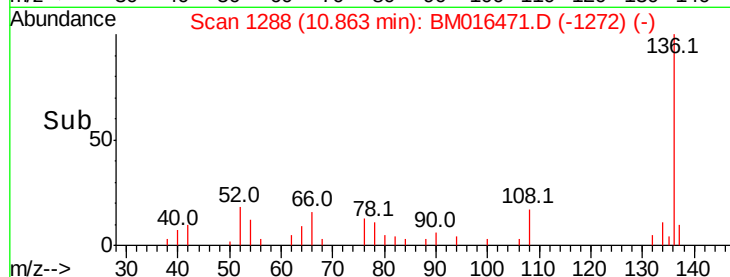
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

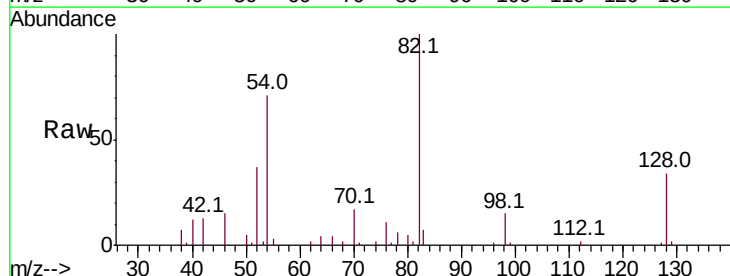
Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#23  
Nitrobenzene-d5  
Concen: N.D. ng  
RT: 9.24 min Scan# 1012  
Delta R.T. -0.01 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 90093 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.9  | 32.8  | 49.2  |
| 54       | 70.6  | 40.6  | 60.8# |

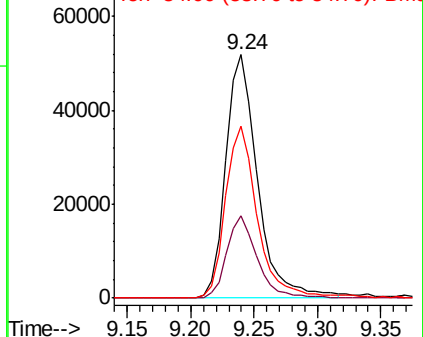
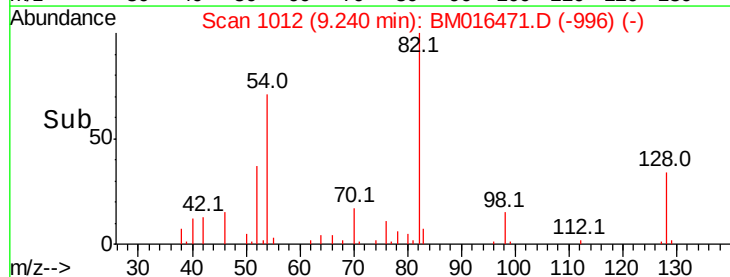


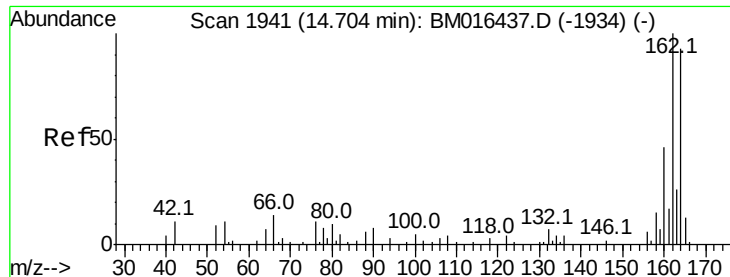
Abundance

Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

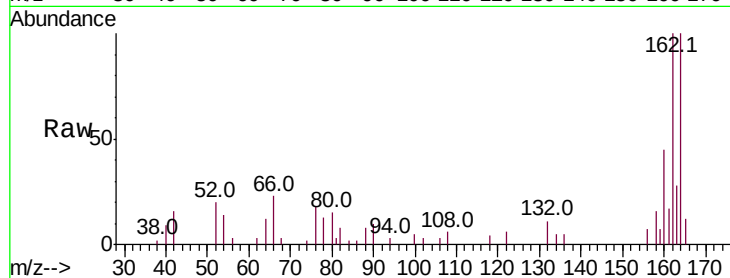
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:164 Resp: 21965

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 100.0 | 82.4  | 123.6 |
| 160 | 45.1  | 35.8  | 53.6  |

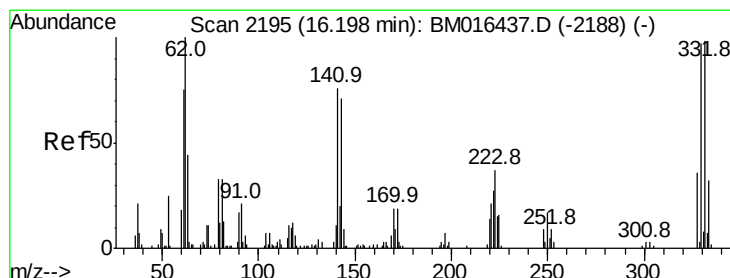
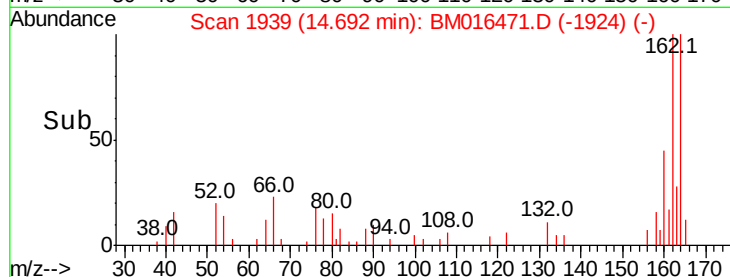
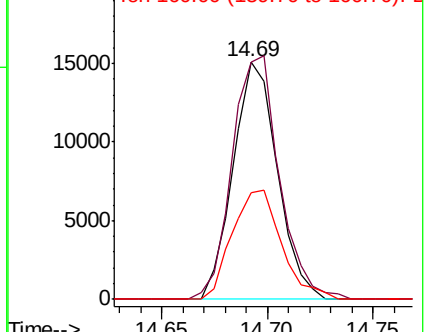


Abundance

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: N.D. ng

RT: 16.19 min Scan# 2193

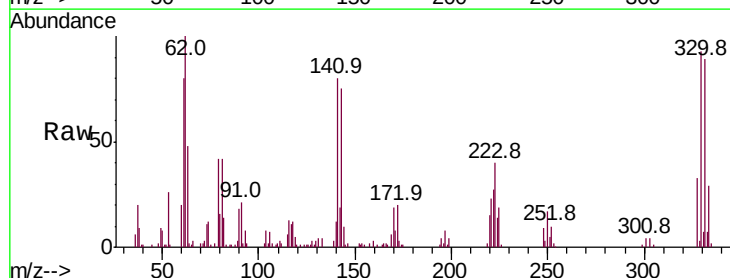
Delta R.T. -0.01 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

Tgt Ion:330 Resp: 70080

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 93.3  | 0.0   | 0.0#  |
| 141 | 90.4  | 0.0   | 0.0#  |

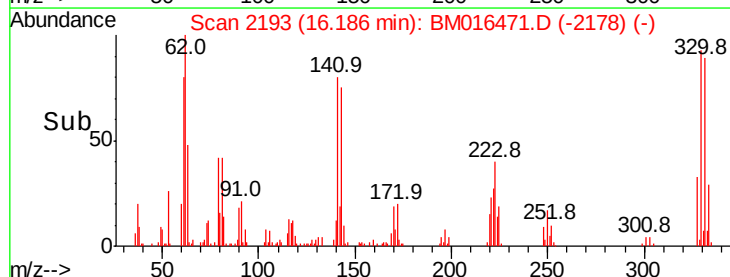
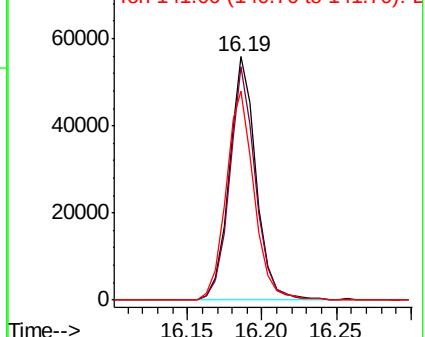


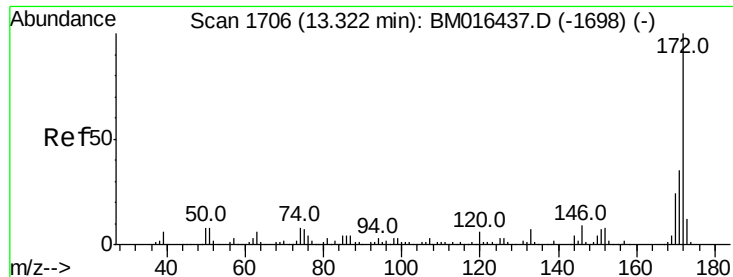
Abundance

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

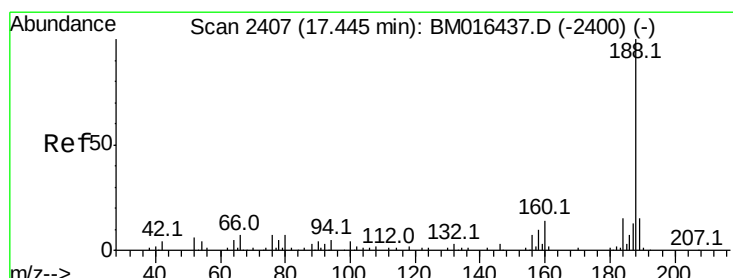
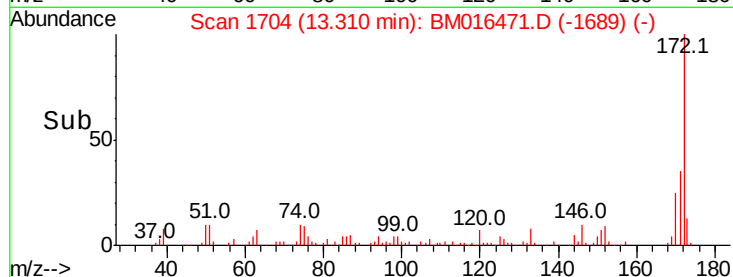
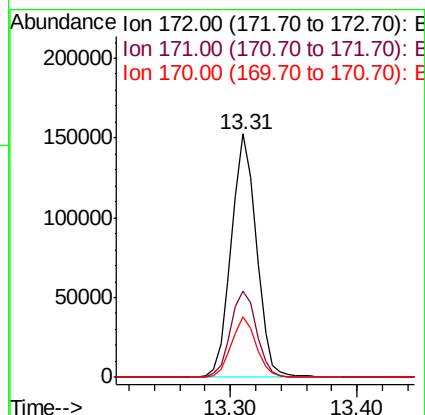
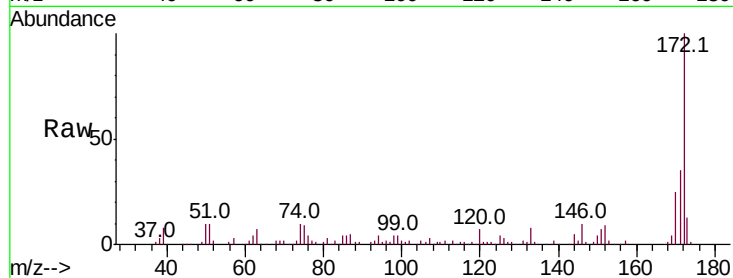




#44  
2-Fluorobiphenyl  
Concen: N.D. ng  
RT: 13.31 min Scan# 1704  
Delta R.T. -0.01 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

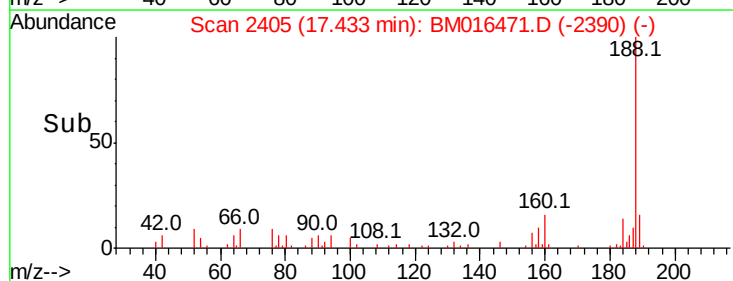
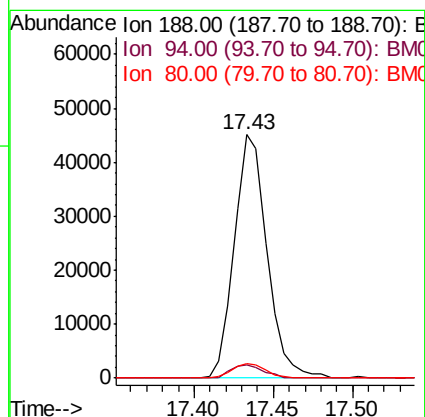
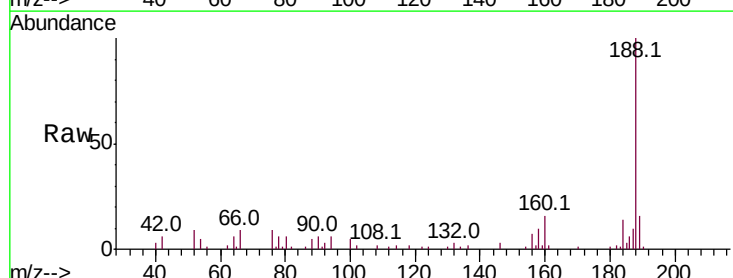
Instrument :  
BNA\_M  
ClientSampleId :

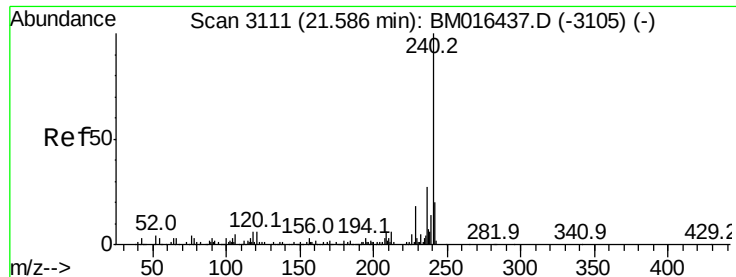
Tot Ion:172 Resp: 209615  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.5 42.7  
170 24.8 18.8 28.2



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.43 min Scan# 2405  
Delta R.T. -0.01 min  
Lab File: BM016471.D  
Acq: 18 Aug 2018 13:29

Tgt Ion:188 Resp: 64504  
Ion Ratio Lower Upper  
188 100  
94 5.7 8.7 13.1#  
80 5.7 9.3 13.9#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.58 min Scan# 3110

Delta R.T. -0.01 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

Instrument :

BNA\_M

ClientSampleId :

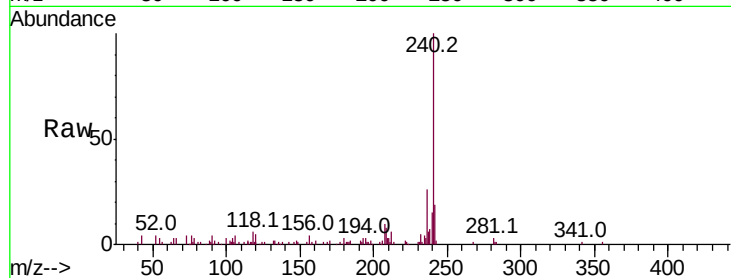
Tot Ion:240 Resp: 98785

Ion Ratio Lower Upper

240 100

120 4.7 8.2 12.2#

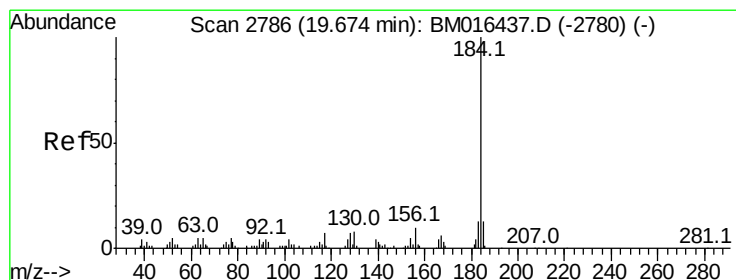
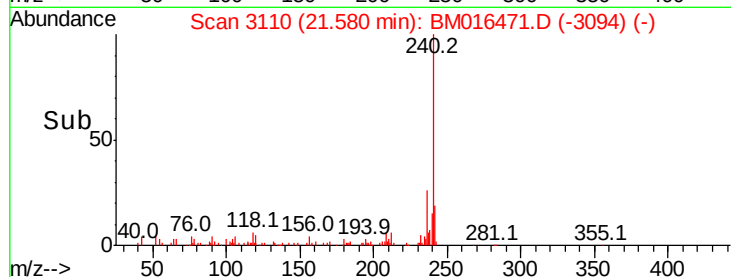
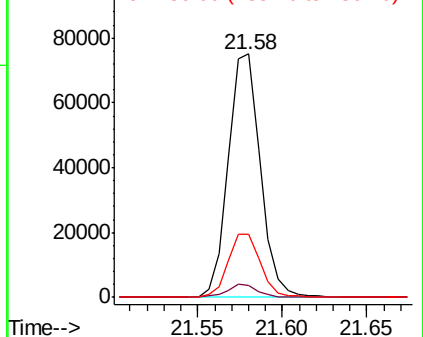
236 26.0 20.0 30.0



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



#76

Benzidine

Concen: 11.682 ng

RT: 19.67 min Scan# 2785

Delta R.T. -0.01 min

Lab File: BM016471.D

Acq: 18 Aug 2018 13:29

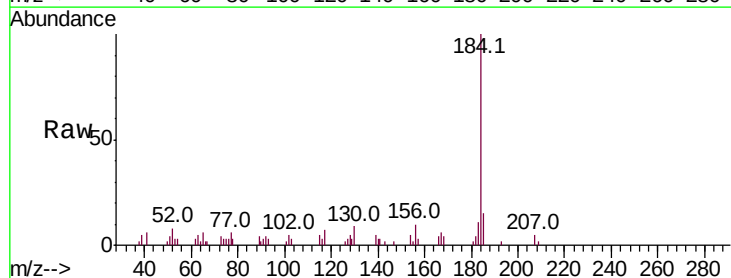
Tgt Ion:184 Resp: 25398

Ion Ratio Lower Upper

184 100

185 15.2 11.3 16.9

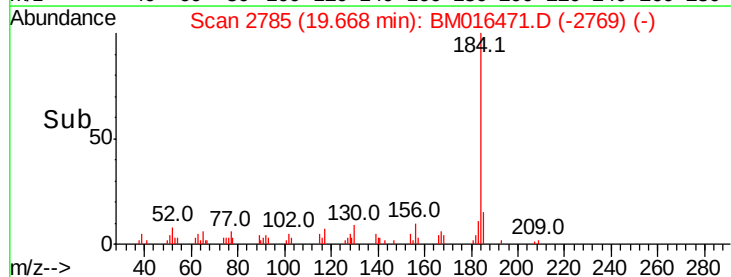
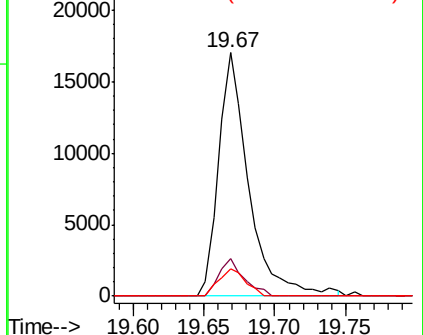
183 11.0 8.9 13.3



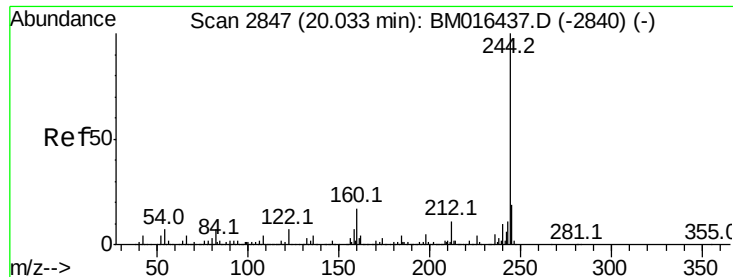
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



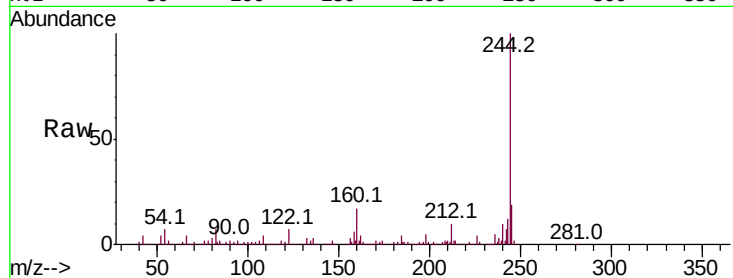




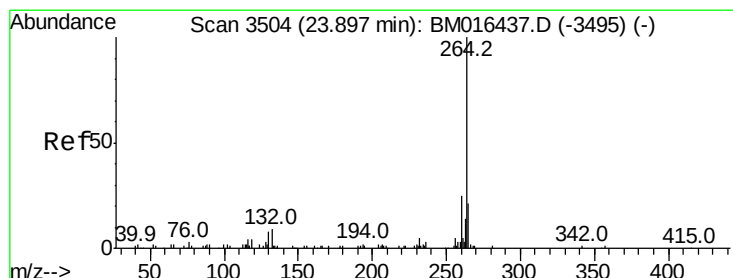
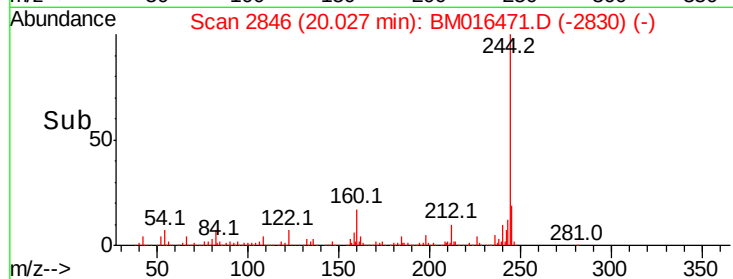
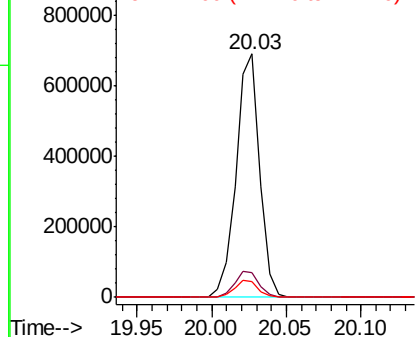
#78  
 Terphenyl-d14  
 Concen: Below na  
 RT: 20.03 min Scan# 2846  
 Delta R.T. -0.00 min  
 Lab File: BM016471.D  
 Acq: 18 Aug 2018 13:29

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.4  | 4.9   | 7.3#  |
| 122     | 6.7   | 6.2   | 9.4   |

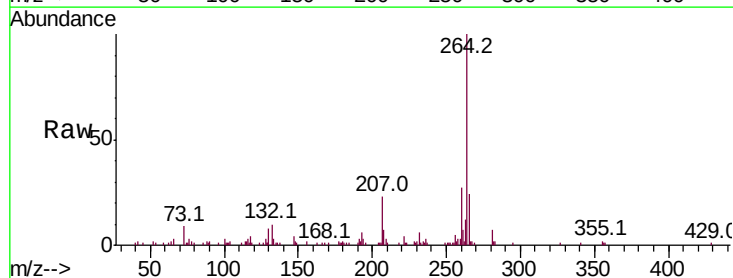


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.88 min Scan# 3501  
 Delta R.T. -0.02 min  
 Lab File: BM016471.D  
 Acq: 18 Aug 2018 13:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.8  | 18.6  | 27.8  |
| 265     | 23.7  | 17.3  | 25.9  |



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

