

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080217\  
 Data File : BM011097.D  
 Acq On : 02 Aug 2017 16:50  
 Operator : SJ/JU  
 Sample : I4541-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 02 23:17:25 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

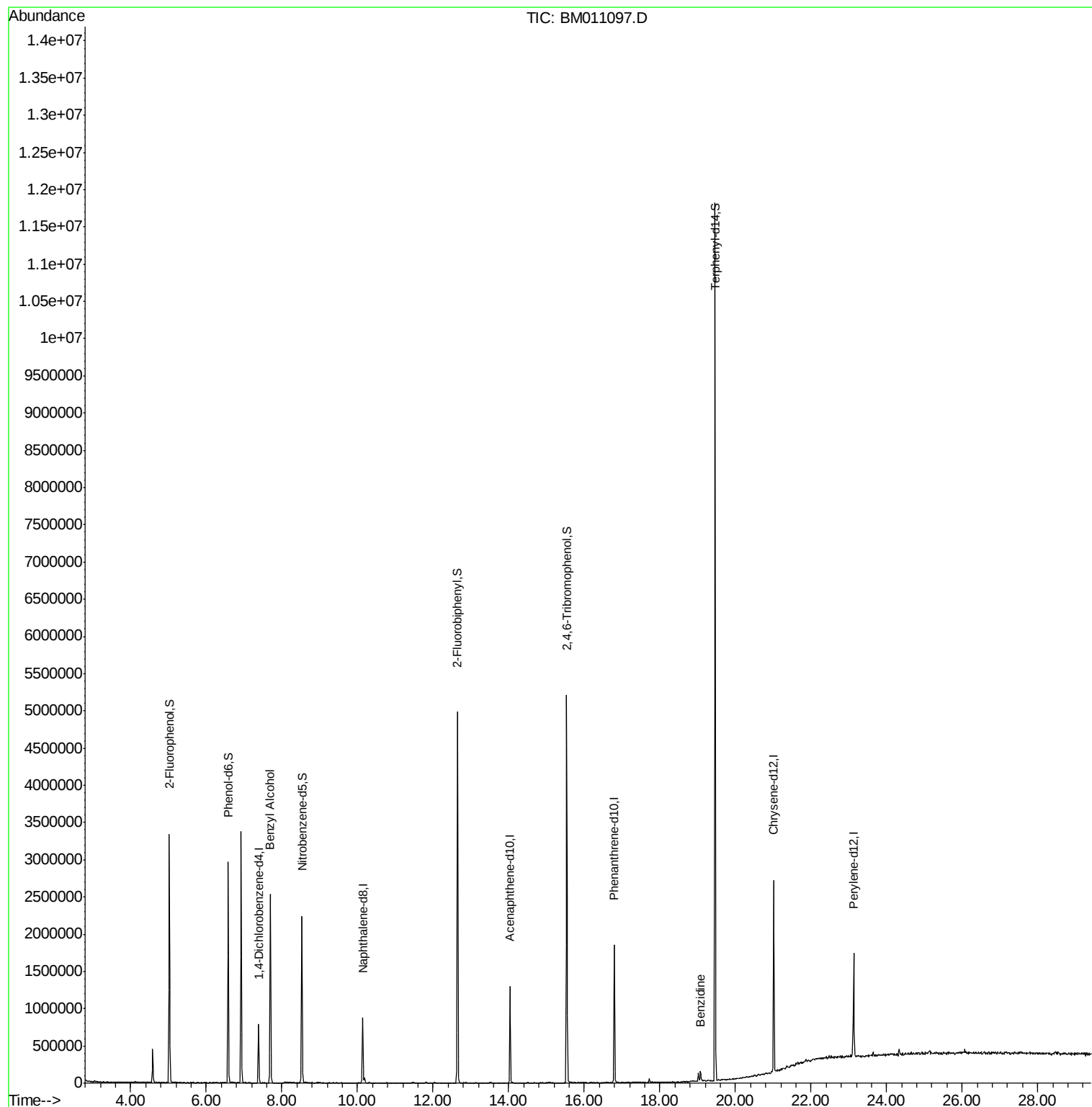
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 140649   | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 10.14 | 136  | 516029   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10        | 14.04 | 164  | 344162   | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 16.79 | 188  | 945462   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12            | 21.01 | 240  | 1134832  | 20.00  | ng    | -0.01       |
| 86) Perylene-d12            | 23.13 | 264  | 926248   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.02  | 112  | 895835   | 107.67 | ng    | 0.00        |
| 7) Phenol-d6                | 6.58  | 99   | 1121706  | 94.89  | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 8.53  | 82   | 1194162  | 86.85  | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 15.54 | 330  | 660517   | 119.74 | ng    | -0.01       |
| 44) 2-Fluorobiphenyl        | 12.64 | 172  | 2082506  | 75.89  | ng    | -0.02       |
| 78) Terphenyl-d14           | 19.46 | 244  | 4134284  | 72.16  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 15) Benzyl Alcohol          | 7.69  | 79   | 22709    | 2.00   | ng    | Qvalue # 37 |
| 76) Benzidine               | 19.07 | 184  | 75515    | 2.78   | ng    | 96          |

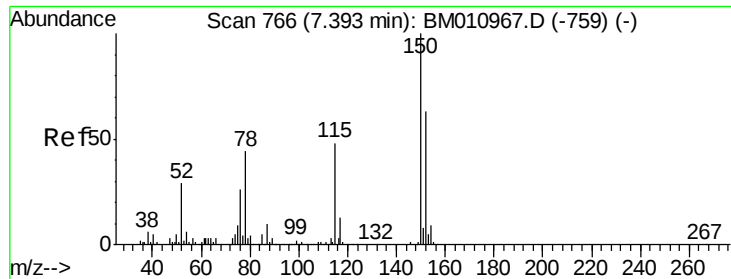
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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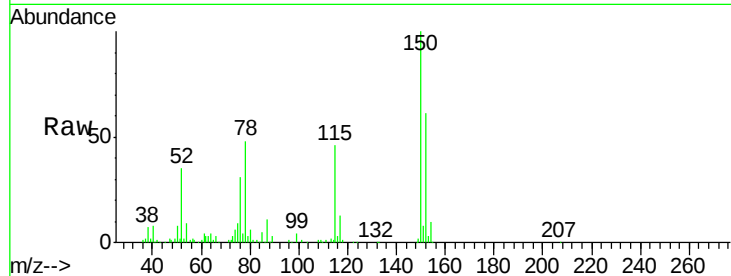


#1

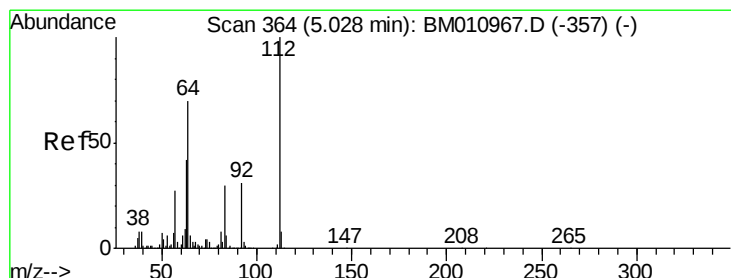
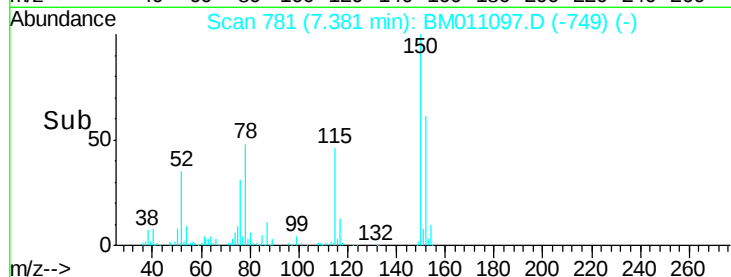
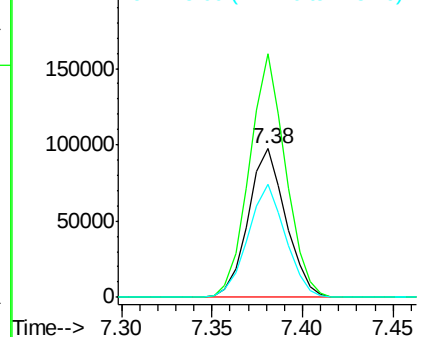
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.38 min Scan# 781  
Delta R.T. -0.01 min  
Lab File: BM011097.D  
Acq: 02 Aug 2017 16:50

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:152 Resp: 140649  
Ion Ratio Lower Upper  
152 100  
150 163.8 119.5 179.3  
115 75.7 43.0 64.4#



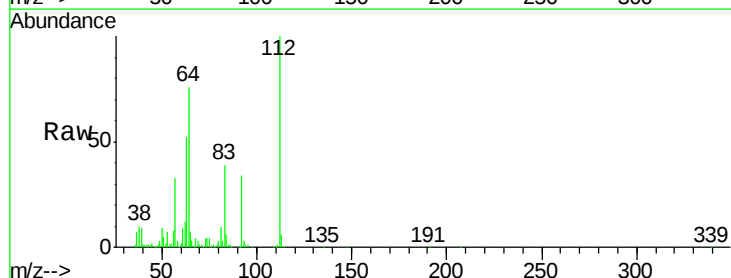
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



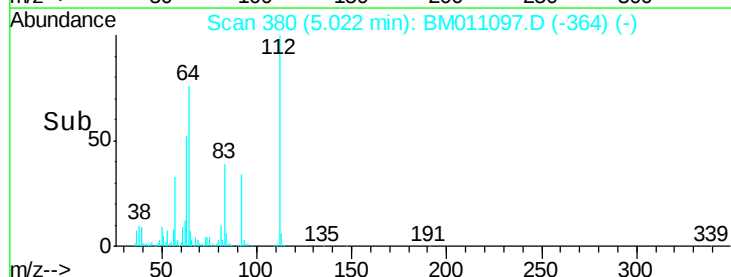
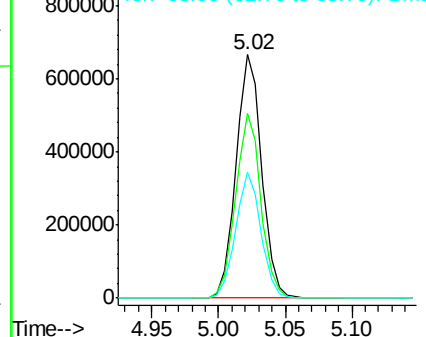
#5

2-Fluorophenol  
Concen: 107.67 ng  
RT: 5.02 min Scan# 380  
Delta R.T. -0.01 min  
Lab File: BM011097.D  
Acq: 02 Aug 2017 16:50

Tgt Ion:112 Resp: 895835  
Ion Ratio Lower Upper  
112 100  
64 76.1 38.6 57.8#  
63 51.7 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: 94.89 ng

RT: 6.58 min Scan# 645

Delta R.T. -0.01 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

Instrument :

BNA\_M

ClientSampled :

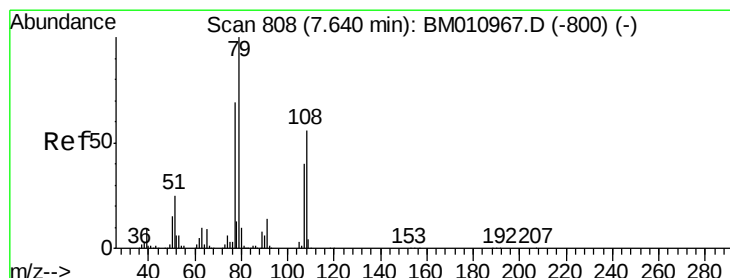
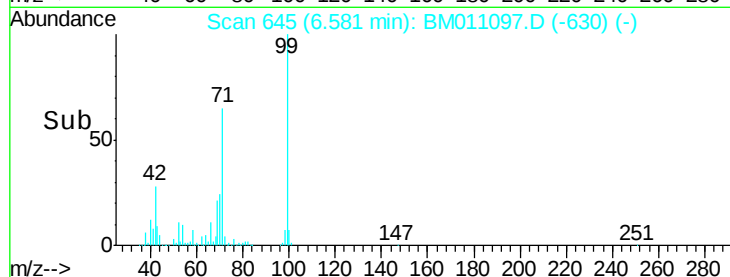
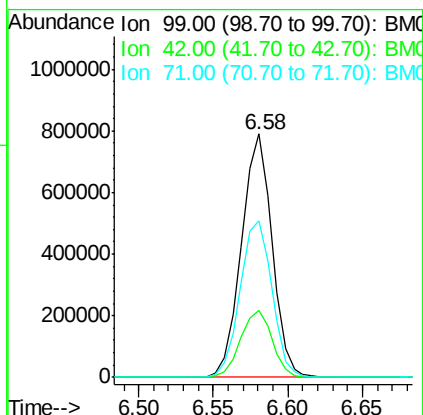
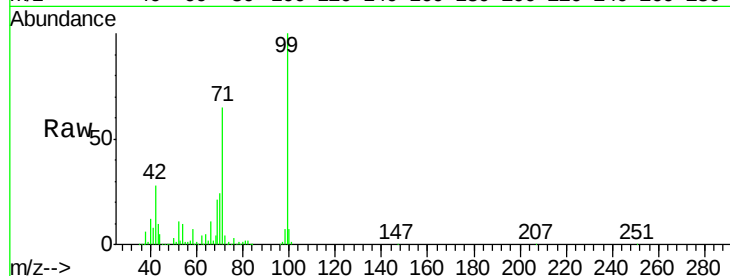
Tot Ion: 99 Resp: 1121706

Ion Ratio Lower Upper

99 100

42 27.6 11.0 16.4#

71 64.6 23.4 35.2#



#15

Benzyl Alcohol

Concen: 2.00 ng

RT: 7.69 min Scan# 834

Delta R.T. 0.05 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

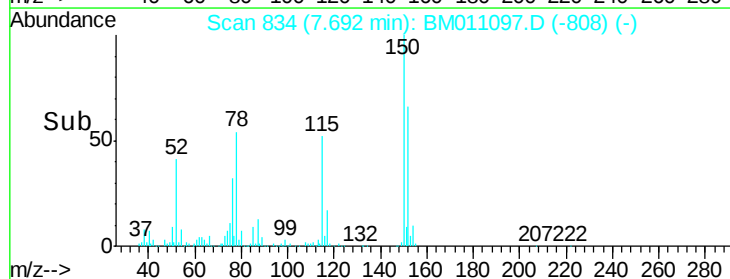
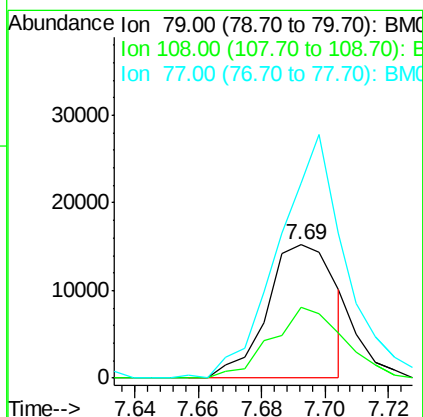
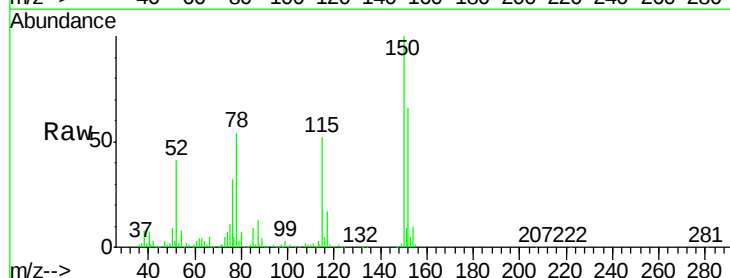
Tgt Ion: 79 Resp: 22709

Ion Ratio Lower Upper

79 100

108 52.7 65.0 97.4#

77 146.0 53.0 79.6#

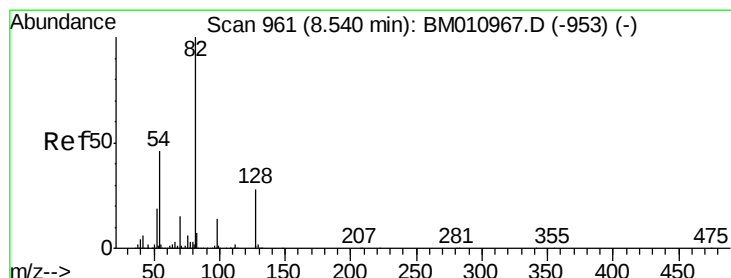
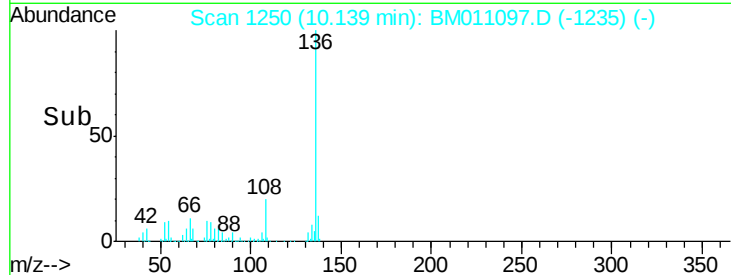
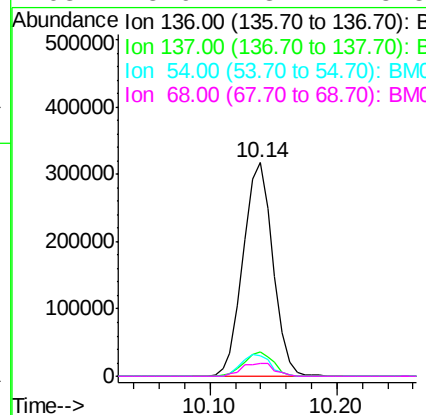
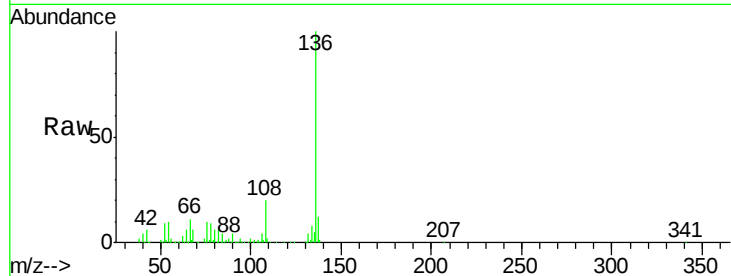




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.14 min Scan# 1250  
Delta R.T. -0.01 min  
Lab File: BM011097.D  
Acq: 02 Aug 2017 16:50

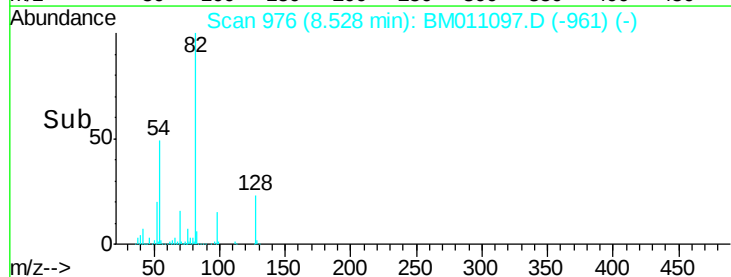
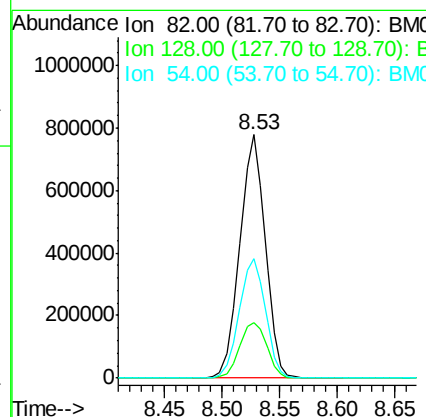
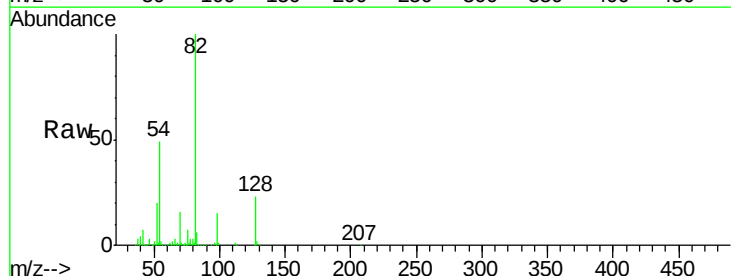
Instrument :  
BNA\_M  
ClientSampleId :

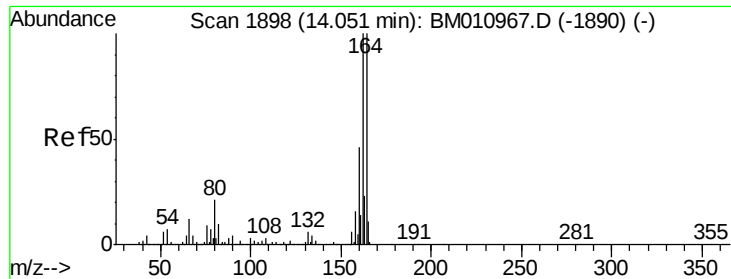
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 516029      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.5  | 8.7 13.1    |
| 54          | 9.6   | 4.6 6.8#    |
| 68          | 5.9   | 3.7 5.5#    |



#23  
Nitrobenzene-d5  
Concen: 86.85 ng  
RT: 8.53 min Scan# 976  
Delta R.T. -0.01 min  
Lab File: BM011097.D  
Acq: 02 Aug 2017 16:50

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1194162     |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 23.0  | 32.8 49.2#  |
| 54          | 49.0  | 40.6 60.8   |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.04 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

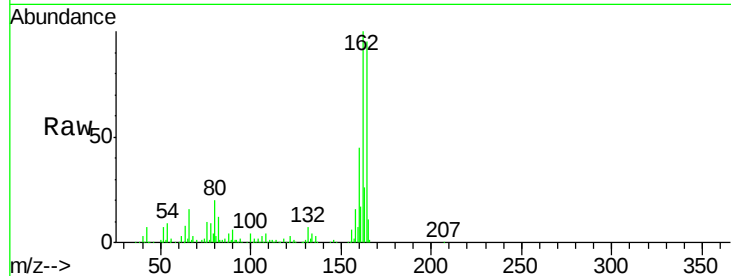
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:164 Resp: 344162

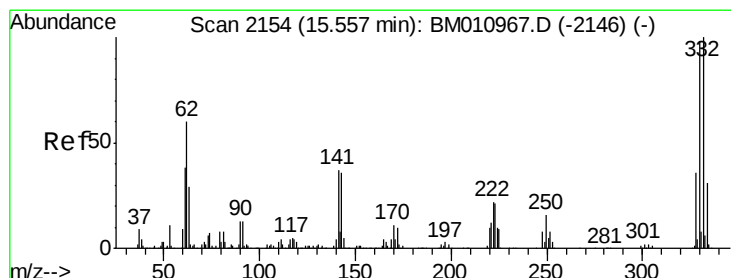
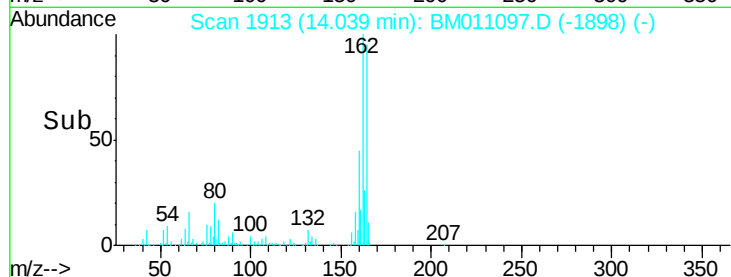
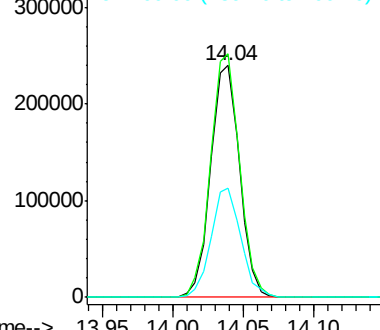
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 104.9 | 82.4  | 123.6 |
| 160 | 47.2  | 35.8  | 53.6  |



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: 119.74 ng

RT: 15.54 min Scan# 2169

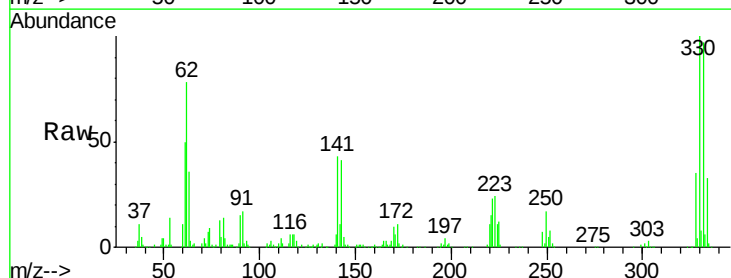
Delta R.T. -0.01 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

Tgt Ion:330 Resp: 660517

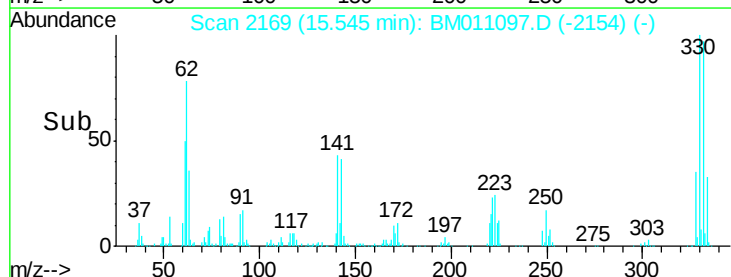
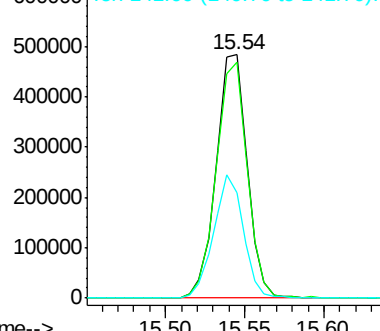
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 97.1  | 0.0   | 0.0#  |
| 141 | 48.7  | 0.0   | 0.0#  |

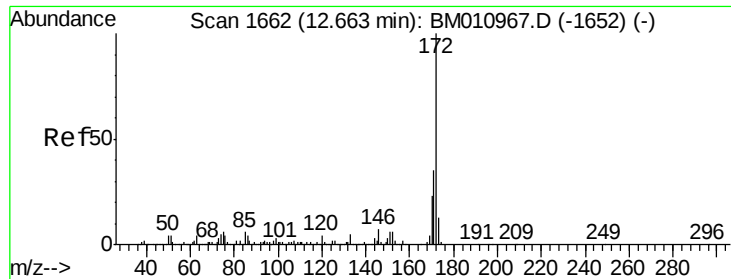


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



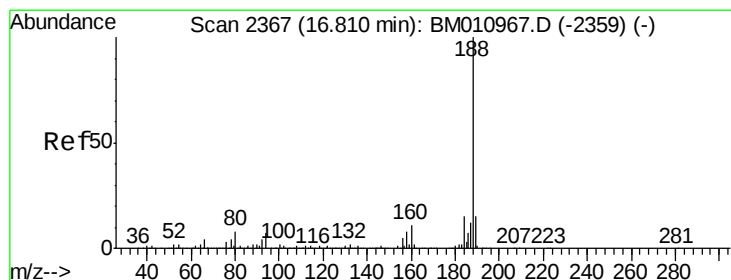
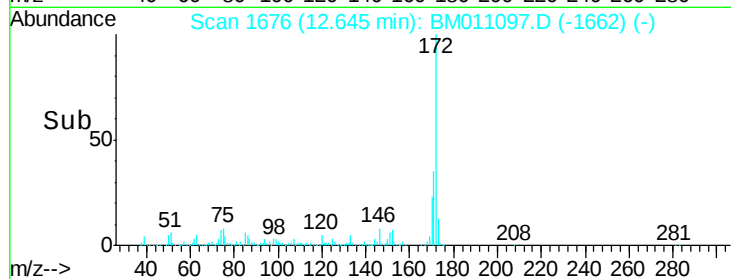
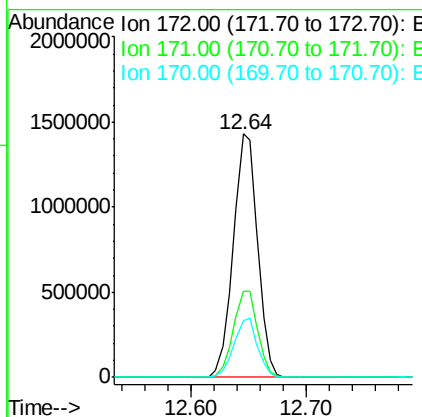
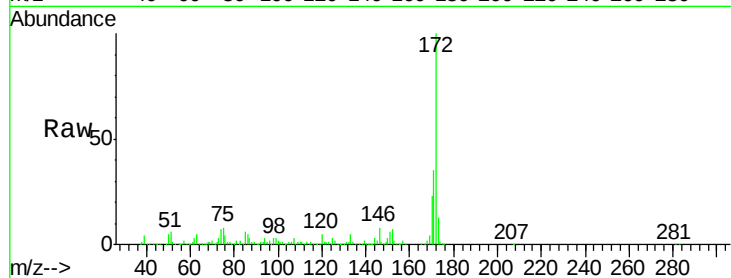


#44  
 2-Fluorobiphenyl  
 Concen: 75.89 ng  
 RT: 12.64 min Scan# 1676  
 Delta R.T. -0.02 min  
 Lab File: BM011097.D  
 Acq: 02 Aug 2017 16:50

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:172 Resp: 2082506  

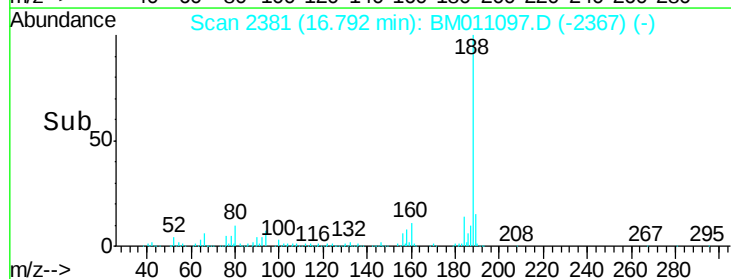
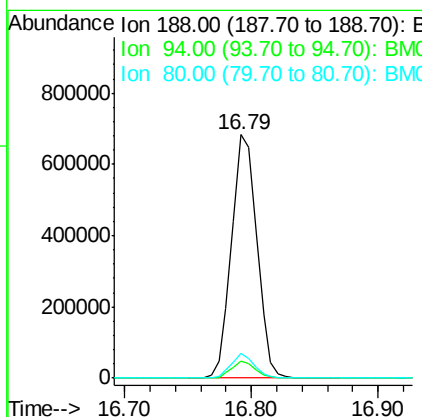
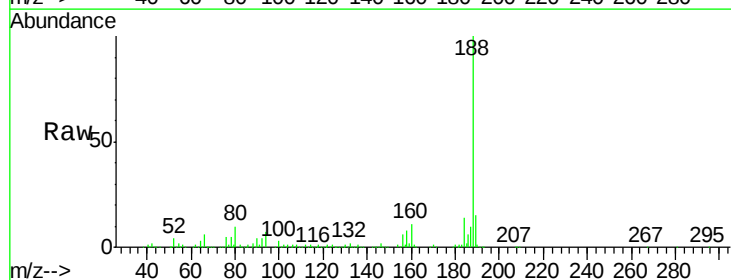
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.2  | 28.5  | 42.7  |
| 170 | 23.5  | 18.8  | 28.2  |

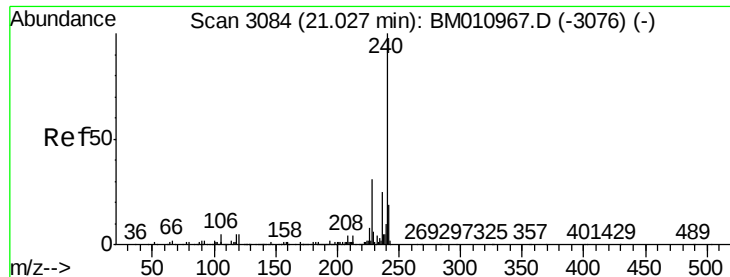


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 16.79 min Scan# 2381  
 Delta R.T. -0.02 min  
 Lab File: BM011097.D  
 Acq: 02 Aug 2017 16:50

Tgt Ion:188 Resp: 945462  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 6.9   | 8.7   | 13.1# |
| 80  | 10.2  | 9.3   | 13.9  |

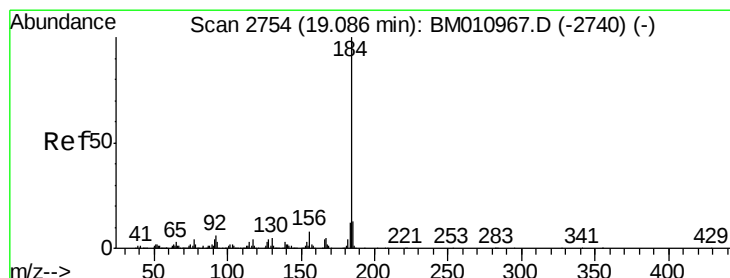
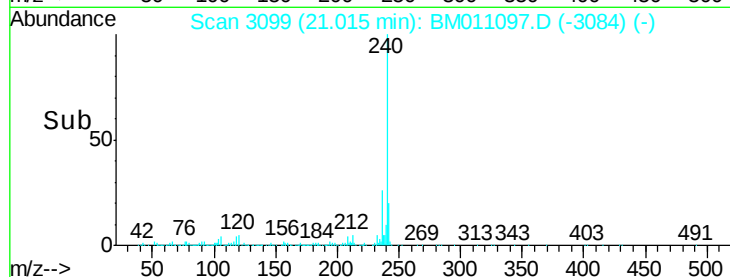
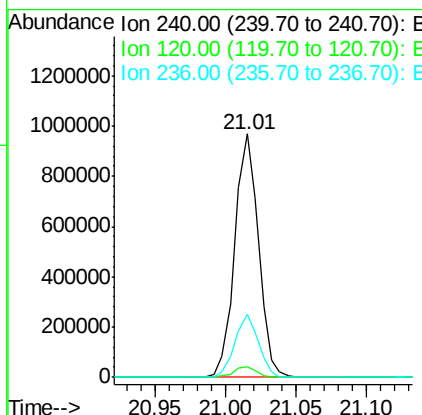
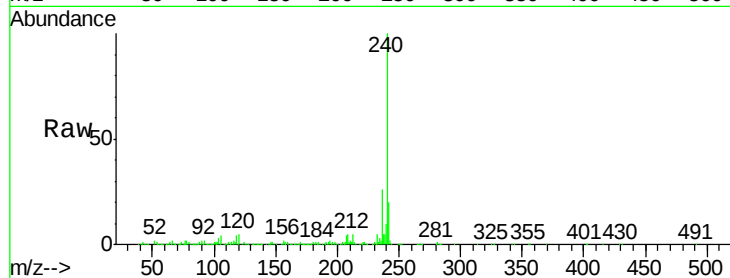




#75  
 Chrvsene-d12  
 Concen: 20.00 ng  
 RT: 21.01 min Scan# 3099  
 Delta R.T. -0.01 min  
 Lab File: BM011097.D  
 Acq: 02 Aug 2017 16:50

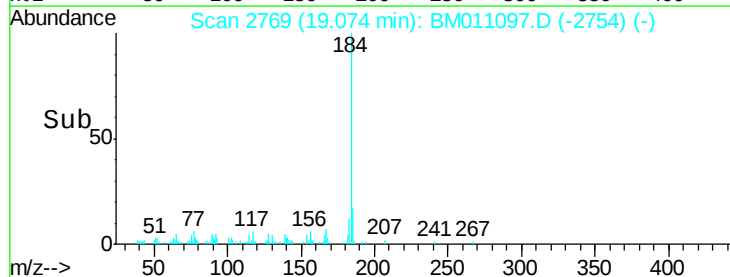
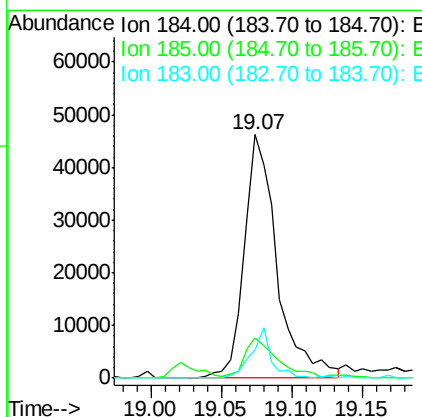
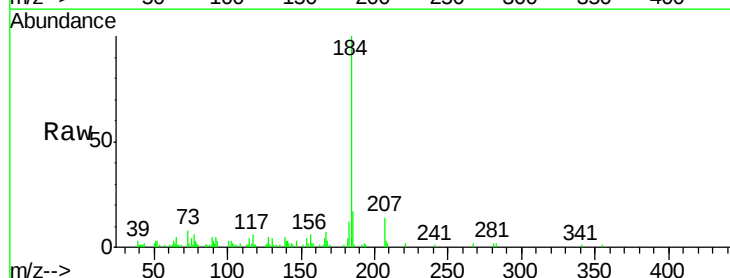
Instrument :  
 BNA\_M  
 ClientSampleId :

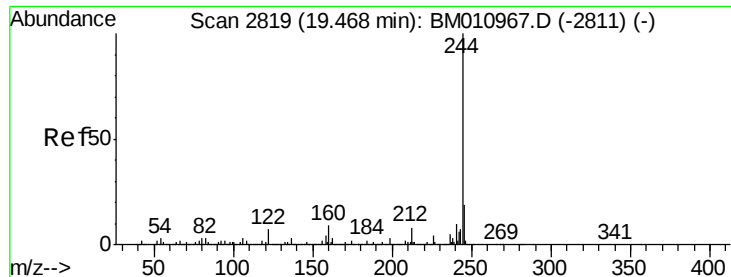
Tot Ion:240 Resp: 1134832  
 Ion Ratio Lower Upper  
 240 100  
 120 4.5 8.2 12.2#  
 236 26.1 20.0 30.0



#76  
 Benzidine  
 Concen: 2.78 ng  
 RT: 19.07 min Scan# 2769  
 Delta R.T. -0.01 min  
 Lab File: BM011097.D  
 Acq: 02 Aug 2017 16:50

Tgt Ion:184 Resp: 75515  
 Ion Ratio Lower Upper  
 184 100  
 185 16.7 11.3 16.9  
 183 11.7 8.9 13.3





#78

Terphenyl-d14

Concen: 72.16 ng

RT: 19.46 min Scan# 2835

Delta R.T. -0.01 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

Instrument :

BNA\_M

ClientSampleId :

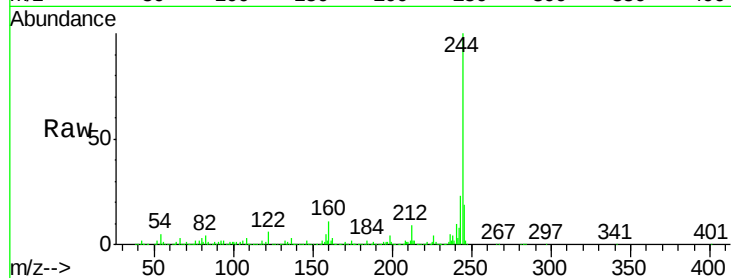
Tot Ion:244 Resp: 4134284

Ion Ratio Lower Upper

244 100

212 9.0 4.9 7.3#

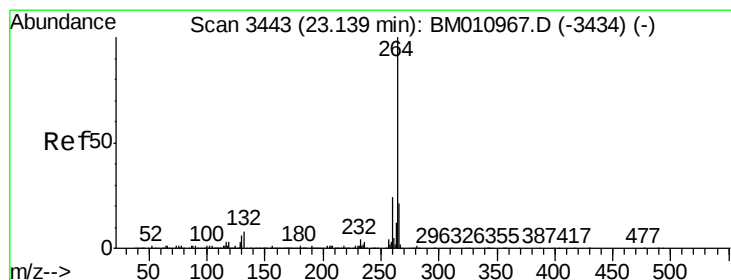
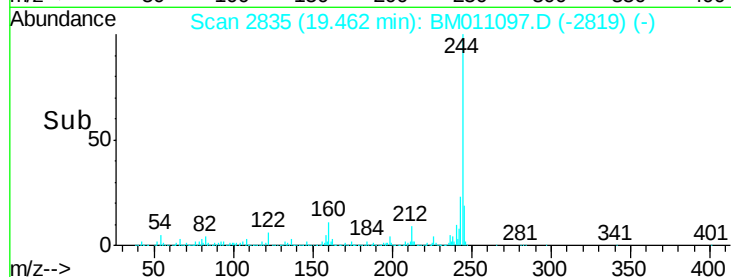
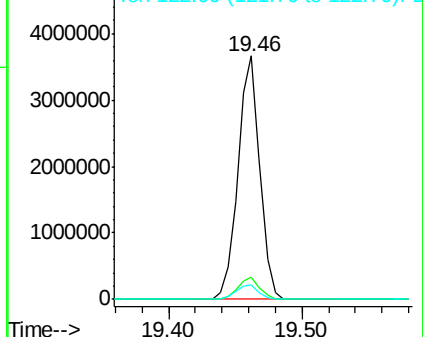
122 6.1 6.2 9.4#



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: 20.00 ng

RT: 23.13 min Scan# 3458

Delta R.T. -0.01 min

Lab File: BM011097.D

Acq: 02 Aug 2017 16:50

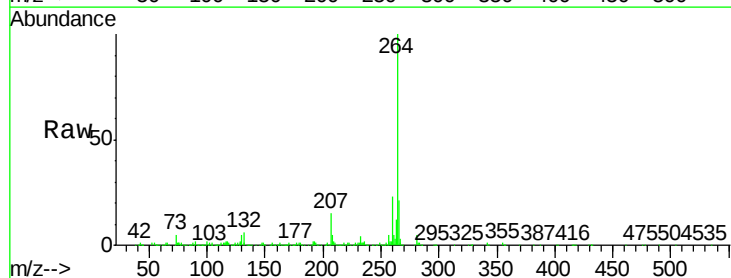
Tgt Ion:264 Resp: 926248

Ion Ratio Lower Upper

264 100

260 22.5 18.6 27.8

265 21.3 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

