

Data Path : U:\HPCHEM1\BNA M\DATA\BM082217\  
 Data File : BM011335.D  
 Acq On : 22 Aug 2017 19:58  
 Operator : SJ/JU  
 Sample : I4898-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NB-08-081817-B

Quant Time: Aug 23 03:36:46 2017  
 Quant Method : Z:\HPCHEM1\BNA M\Methods\8270-BM072617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 02:25:04 2017  
 Response via : Initial Calibration

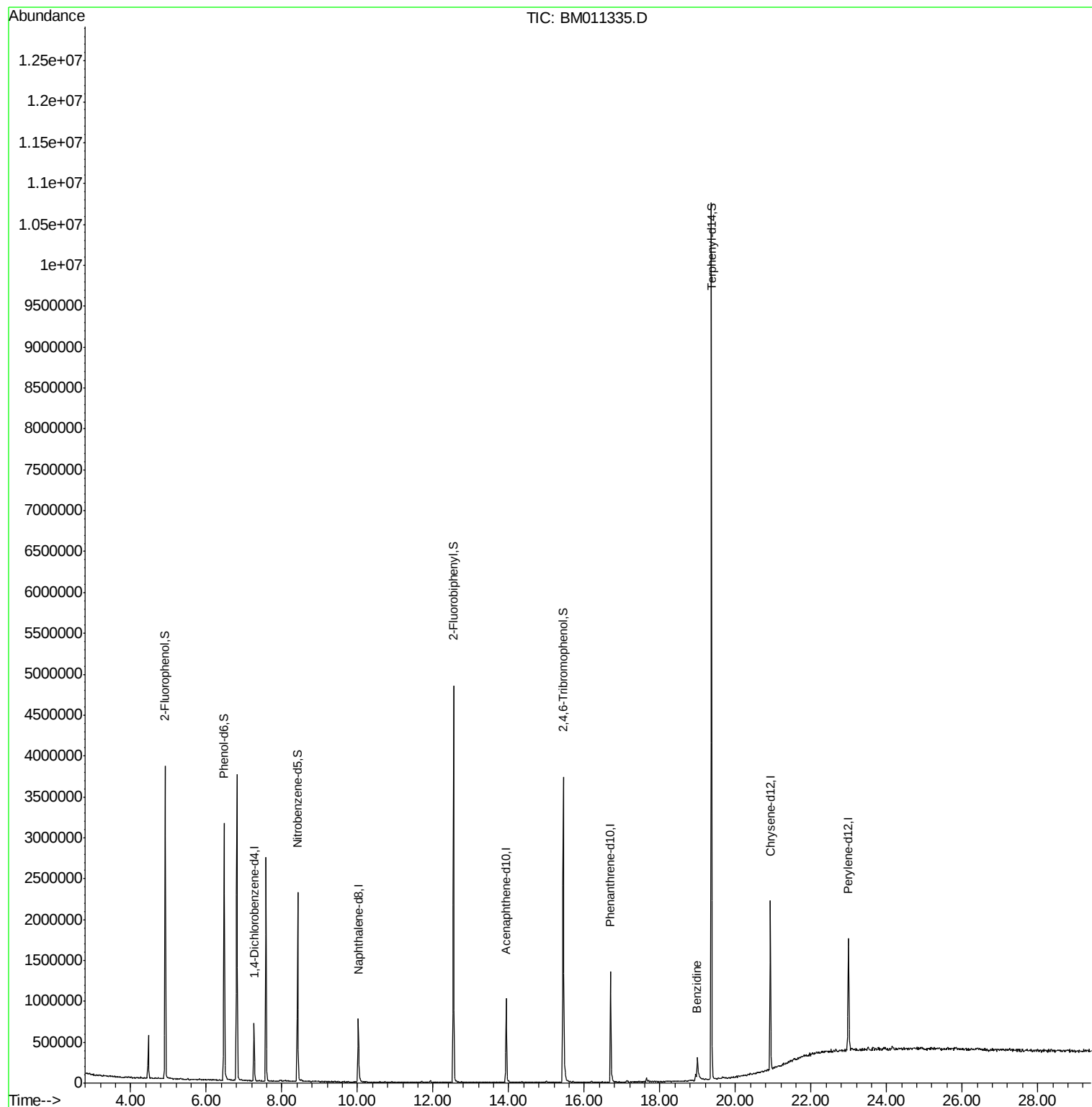
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.27  | 152  | 127014   | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8          | 10.02 | 136  | 431919   | 20.00  | ng    | -0.02     |
| 38) Acenaphthene-d10        | 13.93 | 164  | 284654   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10        | 16.70 | 188  | 742671   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12            | 20.92 | 240  | 980189   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12            | 22.99 | 264  | 973597   | 20.00  | ng    | -0.03     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 4.91  | 112  | 943879   | 125.62 | ng    | -0.02     |
| 7) Phenol-d6                | 6.47  | 99   | 1211790  | 113.51 | ng    | -0.02     |
| 23) Nitrobenzene-d5         | 8.42  | 82   | 1308785  | 113.73 | ng    | -0.02     |
| 41) 2,4,6-Tribromophenol    | 15.44 | 330  | 541463   | 118.68 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl        | 12.54 | 172  | 1978001  | 87.15  | ng    | -0.02     |
| 78) Terphenyl-d14           | 19.37 | 244  | 3717923  | 75.14  | ng    | -0.02     |
| Target Compounds            |       |      |          |        |       |           |
| 76) Benzidine               | 18.99 | 184  | 213102   | 9.088  | ng    | Qvalue 96 |

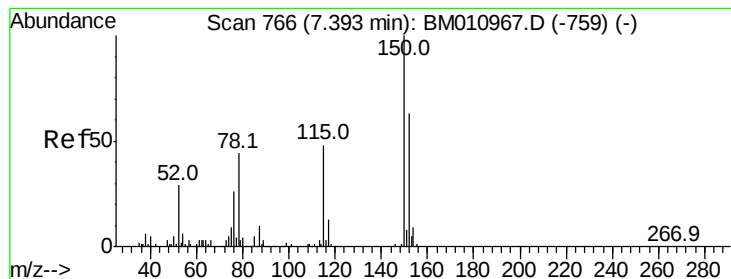
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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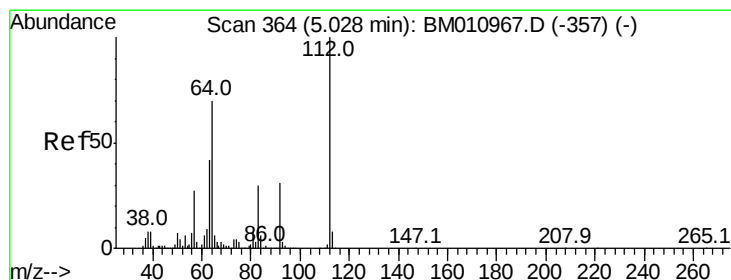
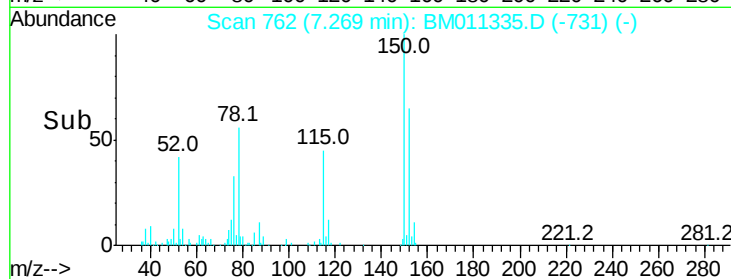
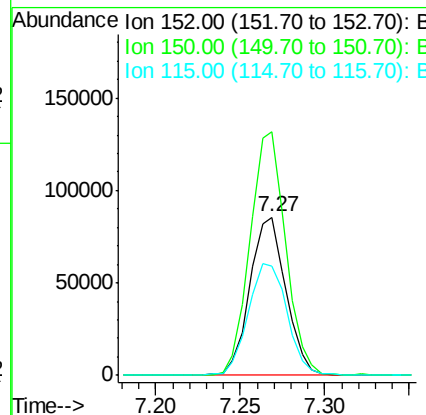
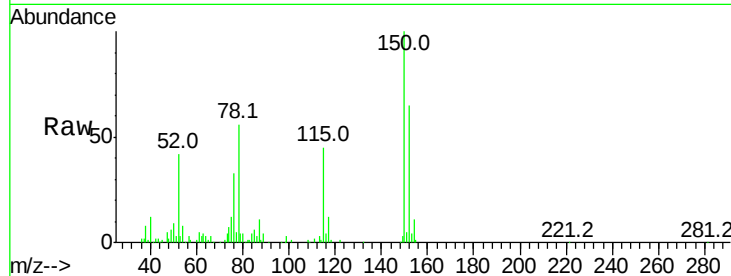


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.27 min Scan# 762  
Delta R.T. -0.02 min  
Lab File: BM011335.D  
Acq: 22 Aug 2017 19:58

Instrument :  
BNA\_M  
ClientSampleId :  
NB-08-081817-B

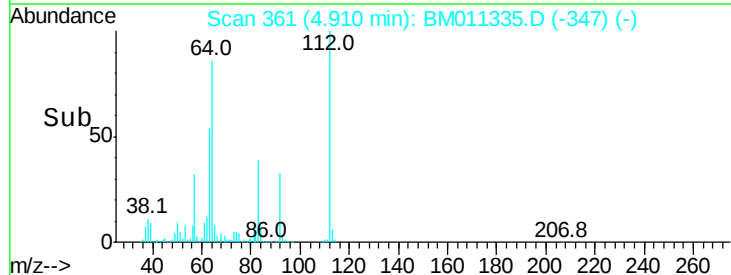
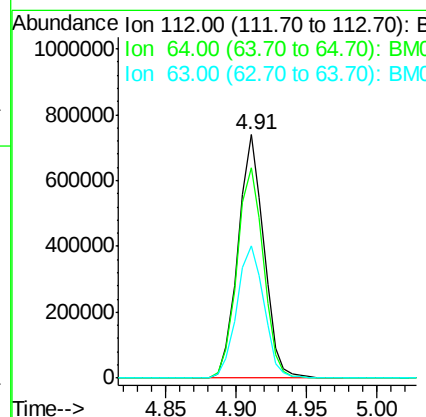
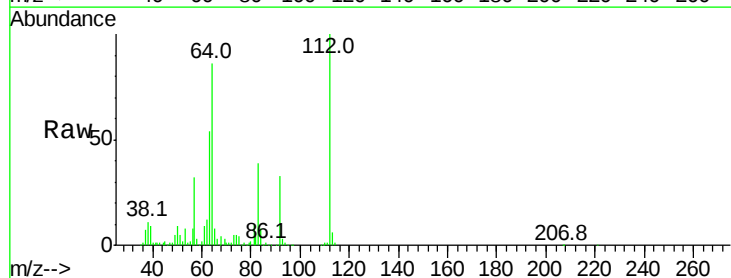
Tot Ion:152 Resp: 127014  
Ion Ratio Lower Upper  
152 100  
150 153.8 119.5 179.3  
115 69.2 43.0 64.4#

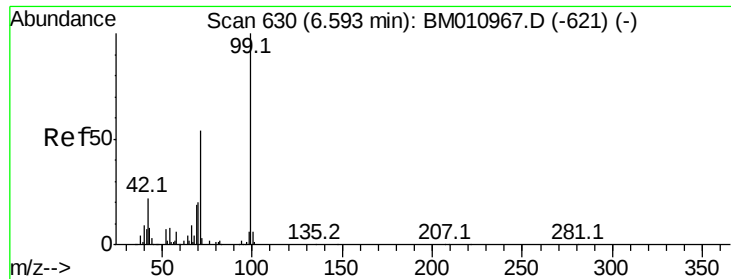


#5

2-Fluorophenol  
Concen: 125.622 ng  
RT: 4.91 min Scan# 361  
Delta R.T. -0.02 min  
Lab File: BM011335.D  
Acq: 22 Aug 2017 19:58

Tgt Ion:112 Resp: 943879  
Ion Ratio Lower Upper  
112 100  
64 86.4 38.6 57.8#  
63 54.5 19.3 28.9#





#7

Phenol-d6

Concen: 113.511 ng

RT: 6.47 min Scan# 627

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

Instrument :

BNA\_M

ClientSampleId :

NB-08-081817-B

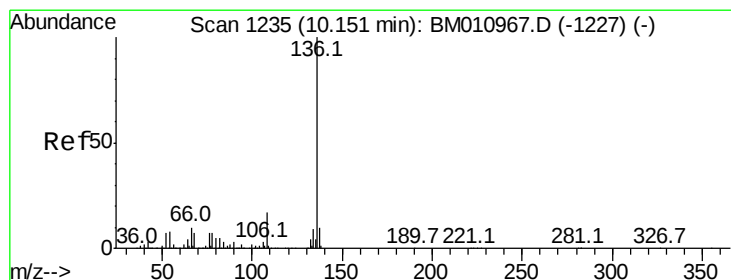
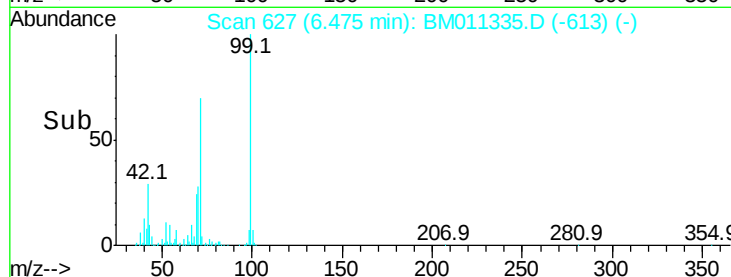
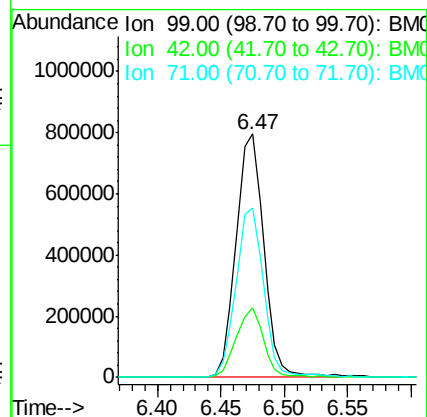
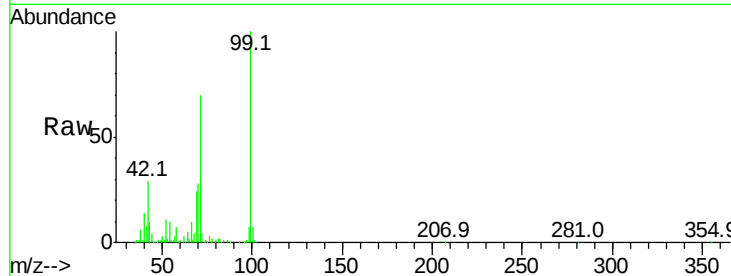
Tot Ion: 99 Resp: 1211790

Ion Ratio Lower Upper

99 100

42 28.7 11.0 16.4#

71 69.8 23.4 35.2#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.02 min Scan# 1230

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

Tgt Ion: 136 Resp: 431919

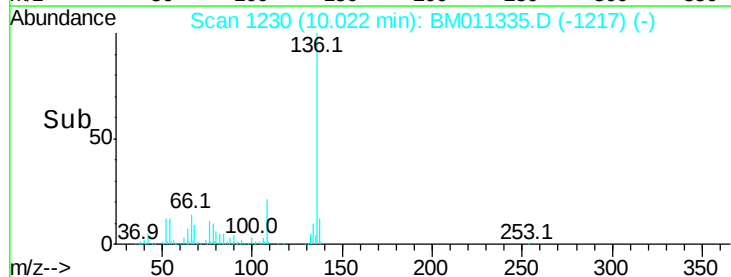
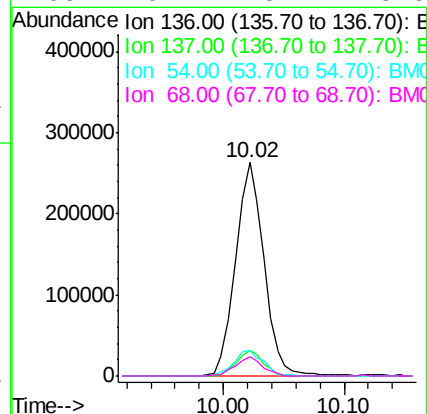
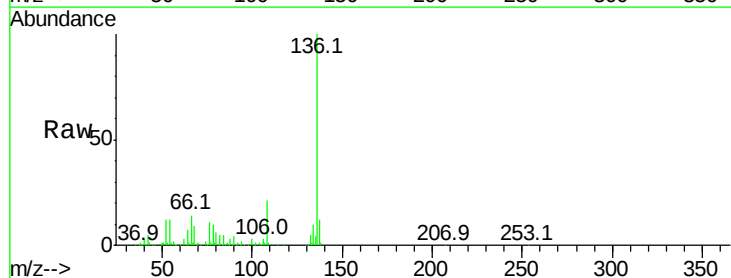
Ion Ratio Lower Upper

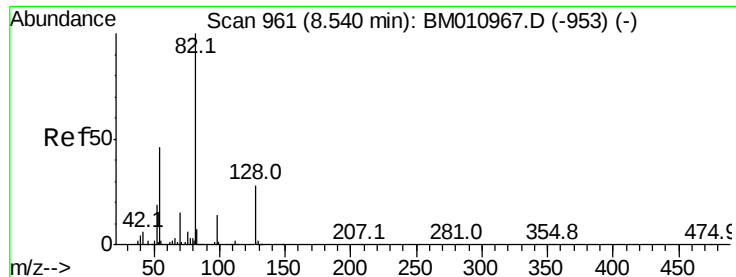
136 100

137 12.0 8.7 13.1

54 11.8 4.6 6.8#

68 9.2 3.7 5.5#

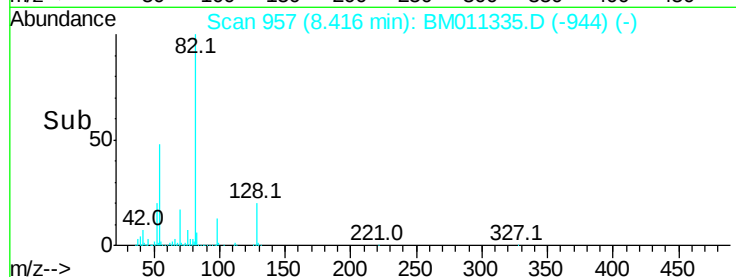
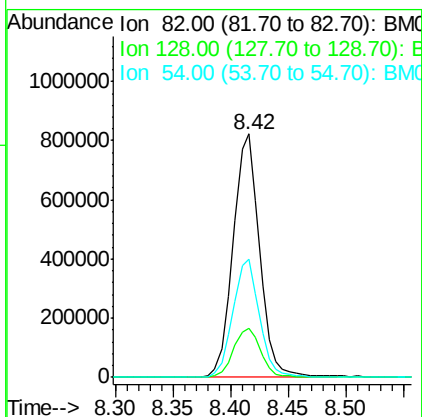
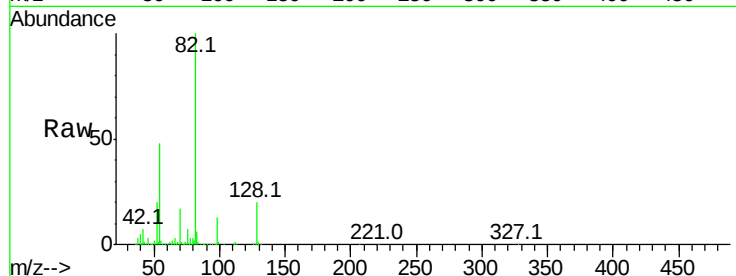




#23  
 Nitrobenzene-d5  
 Concen: 113.727 ng  
 RT: 8.42 min Scan# 957  
 Delta R.T. -0.02 min  
 Lab File: BM011335.D  
 Acq: 22 Aug 2017 19:58

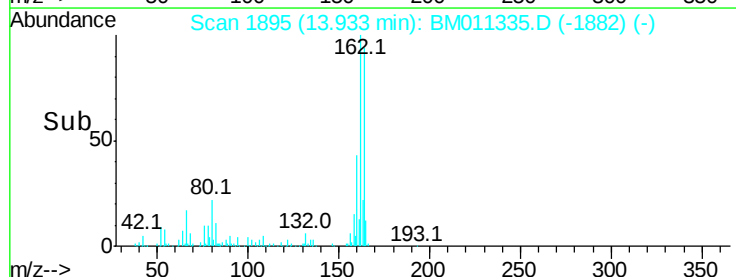
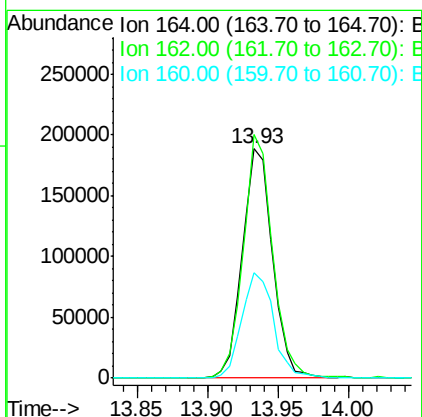
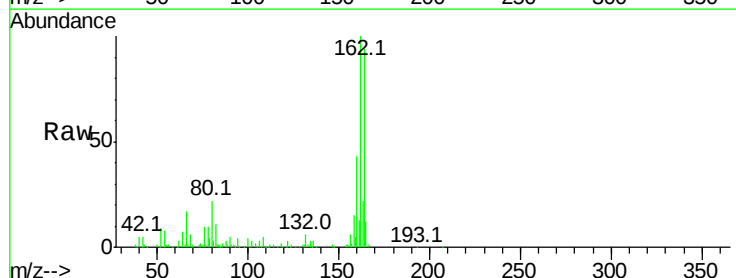
Instrument :  
 BNA\_M  
 ClientSampleId :  
 NB-08-081817-B

Tot Ion: 82 Resp: 1308785  
 Ion Ratio Lower Upper  
 82 100  
 128 20.4 32.8 49.2#  
 54 48.5 40.6 60.8



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 13.93 min Scan# 1895  
 Delta R.T. -0.02 min  
 Lab File: BM011335.D  
 Acq: 22 Aug 2017 19:58

Tgt Ion:164 Resp: 284654  
 Ion Ratio Lower Upper  
 164 100  
 162 106.1 82.4 123.6  
 160 45.7 35.8 53.6

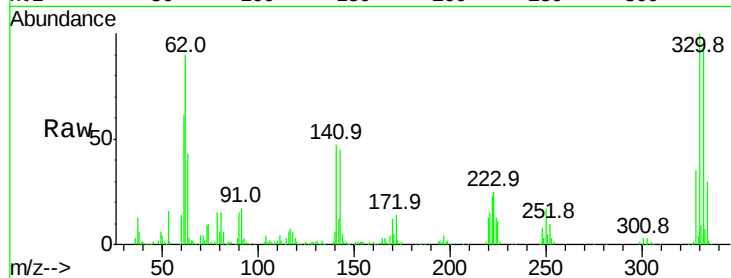




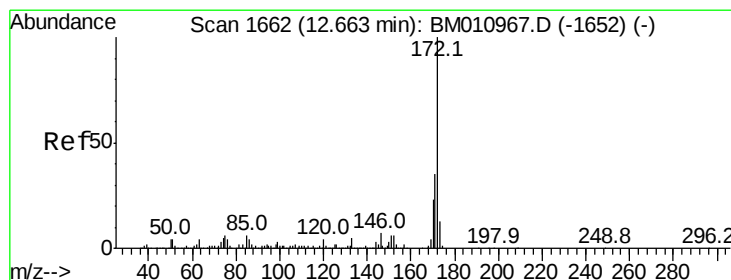
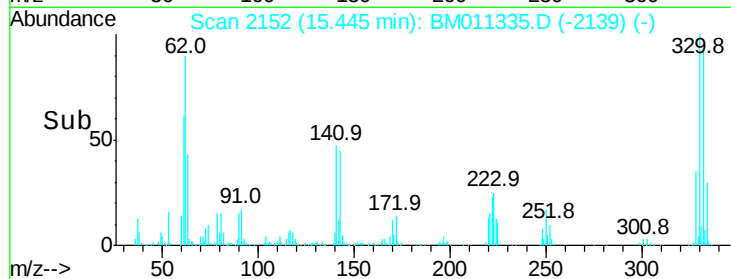
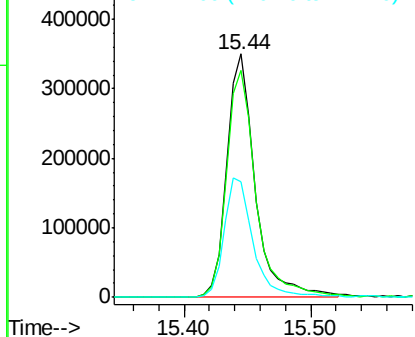
#41  
 2,4,6-Tribromophenol  
 Concen: 118.679 ng  
 RT: 15.44 min Scan# 2152  
 Delta R.T. -0.02 min  
 Lab File: BM011335.D  
 Acq: 22 Aug 2017 19:58

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NB-08-081817-B

Tot Ion:330 Resp: 541463  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 0.0 0.0#  
 141 50.3 0.0 0.0#

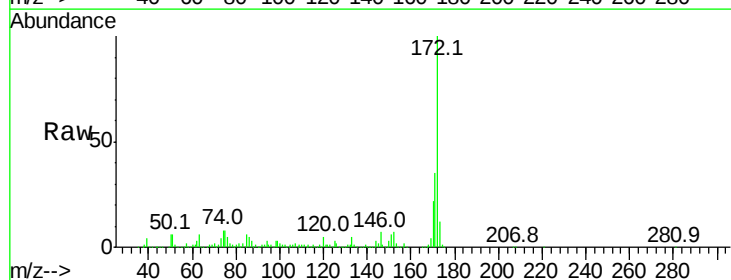


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

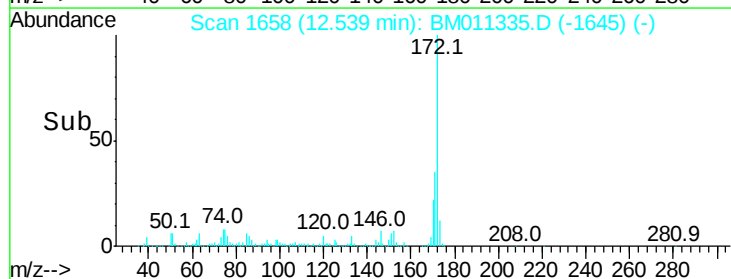
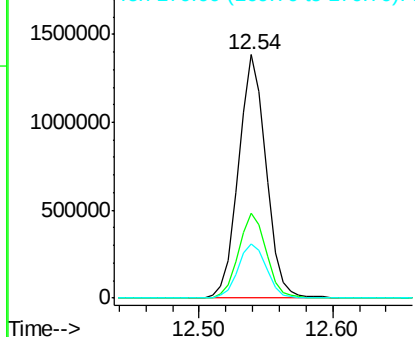


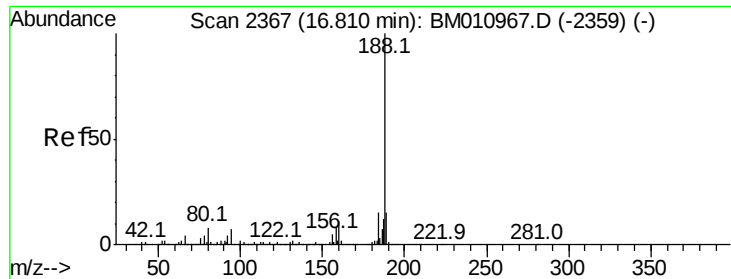
#44  
 2-Fluorobiphenyl  
 Concen: 87.147 ng  
 RT: 12.54 min Scan# 1658  
 Delta R.T. -0.02 min  
 Lab File: BM011335.D  
 Acq: 22 Aug 2017 19:58

Tgt Ion:172 Resp: 1978001  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 28.5 42.7  
 170 22.5 18.8 28.2



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: 16.70 min Scan# 2365

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

Instrument :

BNA\_M

ClientSampleId :

NB-08-081817-B

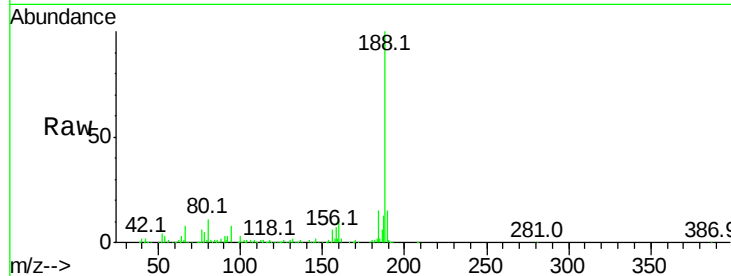
Tot Ion:188 Resp: 742671

Ion Ratio Lower Upper

188 100

94 7.6 8.7 13.1#

80 10.9 9.3 13.9

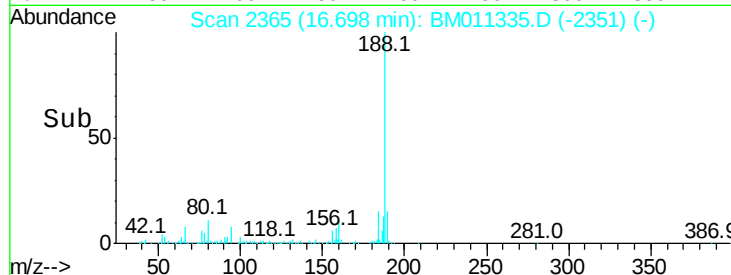


Abundance Ion 188.00 (187.70 to 188.70): E

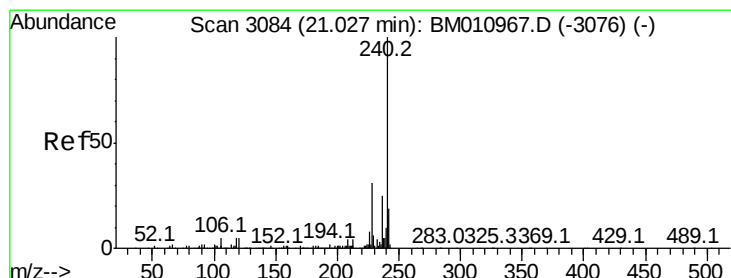
Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

16.70



Time--> 16.60 16.70



#75

Chrysene-d12

Concen: 20.000 ng

RT: 20.92 min Scan# 3083

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

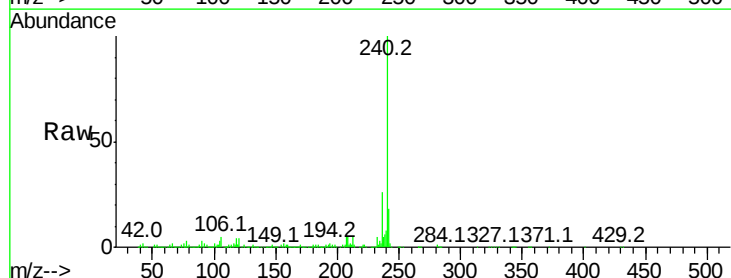
Tgt Ion:240 Resp: 980189

Ion Ratio Lower Upper

240 100

120 4.3 8.2 12.2#

236 26.1 20.0 30.0

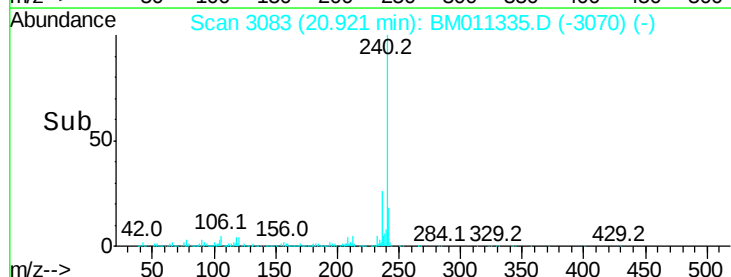


Abundance Ion 240.00 (239.70 to 240.70): E

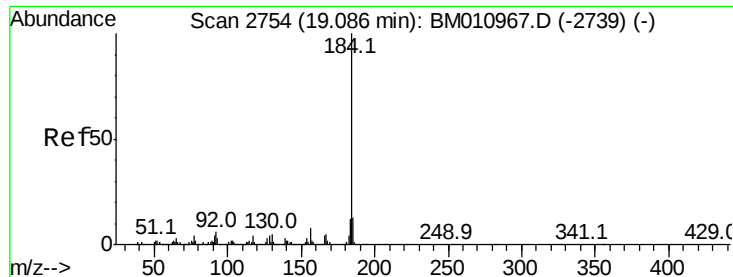
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

20.92



Time--> 20.85 20.90 20.95 21.00



#76

Benzidine

Concen: 9.088 ng

RT: 18.99 min Scan# 2755

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

Instrument :

BNA\_M

ClientSampleId :

NB-08-081817-B

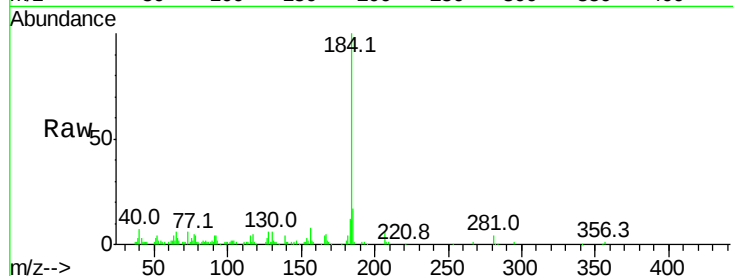
Tot Ion:184 Resp: 213102

Ion Ratio Lower Upper

184 100

185 16.5 11.3 16.9

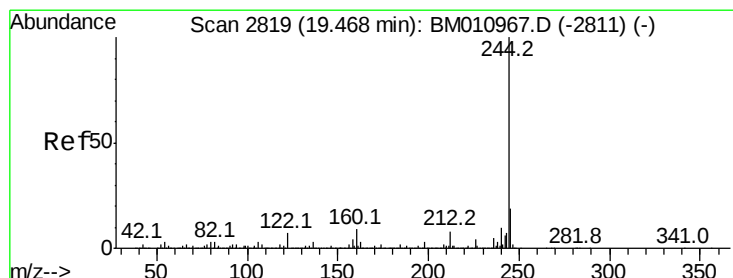
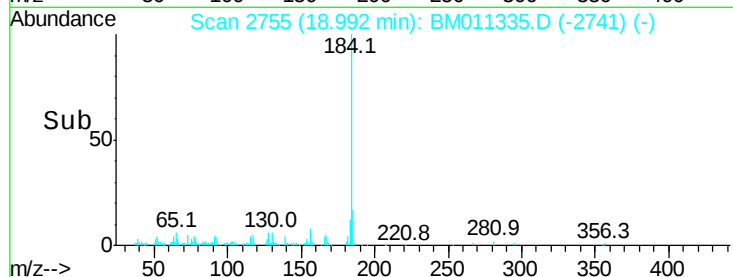
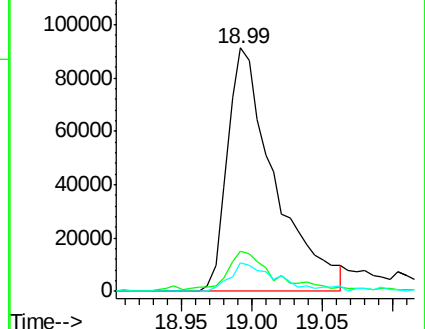
183 11.9 8.9 13.3



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: 75.136 ng

RT: 19.37 min Scan# 2819

Delta R.T. -0.02 min

Lab File: BM011335.D

Acq: 22 Aug 2017 19:58

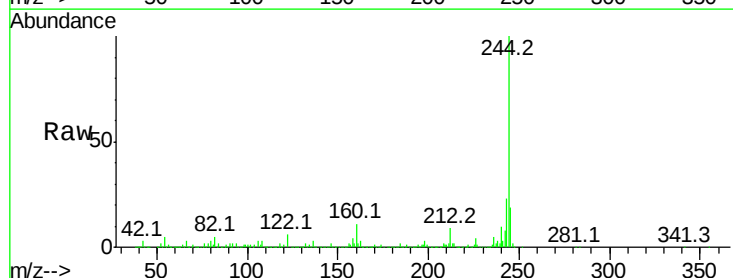
Tgt Ion:244 Resp: 3717923

Ion Ratio Lower Upper

244 100

212 8.8 4.9 7.3#

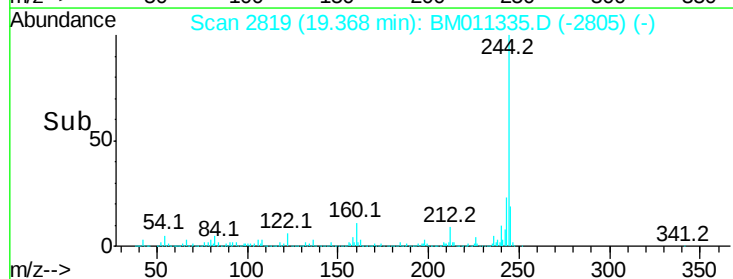
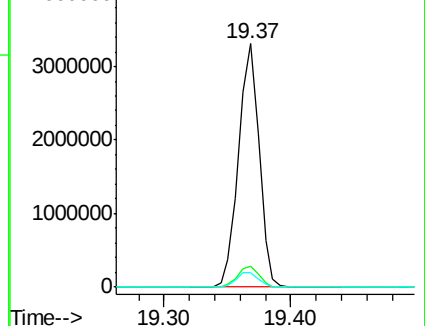
122 5.8 6.2 9.4#

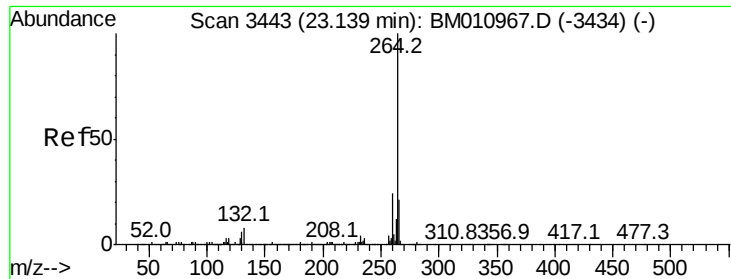


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

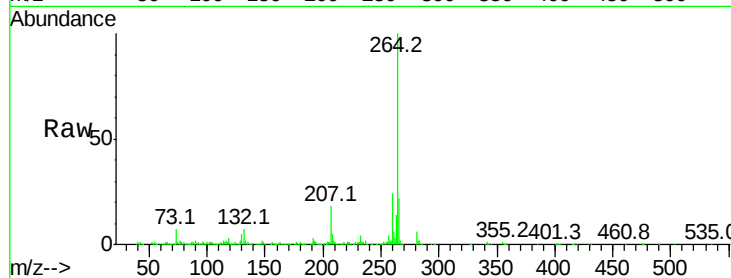




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 22.99 min Scan# 3435  
 Delta R.T. -0.03 min  
 Lab File: BM011335.D  
 Acq: 22 Aug 2017 19:58

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NB-08-081817-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 18.6  | 27.8  |
| 265     | 22.0  | 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

