

Data Path : Z:\HPCHEM1\BNA M\DATA\BM092117\  
 Data File : BM011662.D  
 Acq On : 21 Sep 2017 20:14  
 Operator : SJ/JU  
 Sample : I5283-06  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Sep 22 03:53:22 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM090817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 22 03:47:29 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.96  | 152  | 370492   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.77 | 136  | 1720452  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.59 | 164  | 984014   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.33 | 188  | 2146383  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.50 | 240  | 2195294  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.87 | 264  | 1785540  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |       |
|--------------------------------|-------|-----|--------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.39  | 96  | 3162   | 0.38 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.11  | 99  | 47686  | 1.34 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.29  | 67  | 80855  | 3.37 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.49  | 132 | 48209  | 1.80 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.66  | 113 | 40671  | 1.46 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.13  | 128 | 38065  | 2.91 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.85  | 143 | 8358   | 0.62 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.39 | 165 | 25921  | 0.95 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.88 | 131 | 1452   | 0.05 | ng/ul | -0.02 |
| 44) Dimethylphthalate-d6       | 13.99 | 166 | 129344 | 1.55 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.29 | 160 | 328315 | 3.26 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.66 | 143 | 376    | 0.02 | ng/ul | -0.12 |
| 58) Fluorene-d10               | 15.58 | 176 | 277895 | 3.86 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.71 | 200 | 330    | 0.03 | ng/ul | 0.01  |
| 71) Anthracene-d10             | 17.43 | 188 | 436605 | 4.13 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.72 | 212 | 544522 | 5.30 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 23.71 | 264 | 339807 | 3.99 | ng/ul | 0.00  |

## Target Compounds

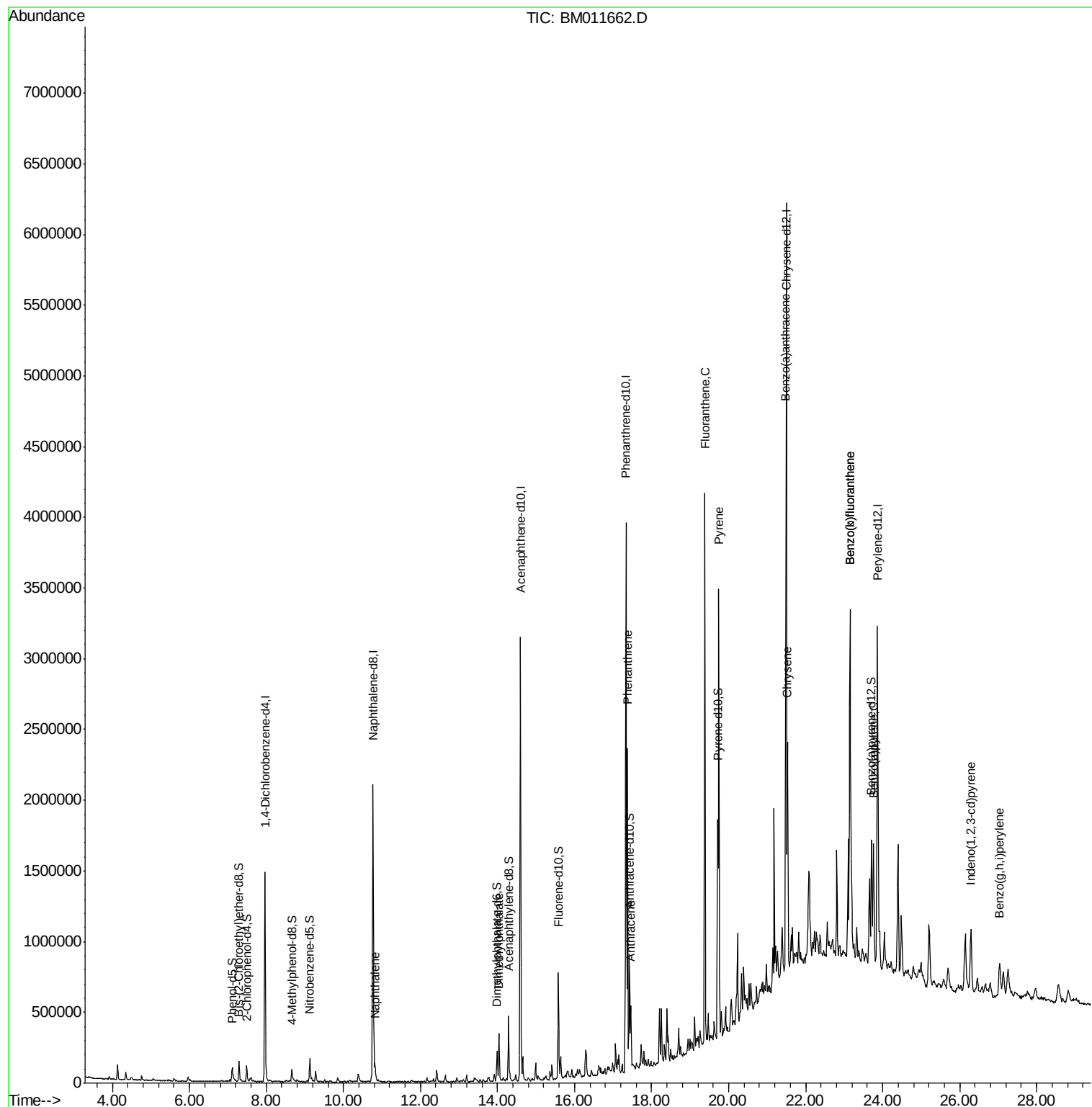
|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 28) Naphthalene            | 10.82 | 128 | 96672   | 1.084  | ng/ul  | 95 |
| 45) Dimethylphthalate      | 14.04 | 163 | 203794  | 2.559  | ng/ul# | 97 |
| 70) Phenanthrene           | 17.37 | 178 | 1278648 | 10.688 | ng/ul  | 99 |
| 72) Anthracene             | 17.46 | 178 | 261048  | 2.126  | ng/ul  | 96 |
| 77) Fluoranthene           | 19.38 | 202 | 2188552 | 17.785 | ng/ul# | 90 |
| 80) Pyrene                 | 19.74 | 202 | 1876726 | 14.652 | ng/ul# | 88 |
| 83) Benzo(a)anthracene     | 21.48 | 228 | 973000  | 8.050  | ng/ul  | 99 |
| 85) Chrysene               | 21.53 | 228 | 874903  | 7.984  | ng/ul  | 99 |
| 88) Benzo(b)fluoranthene   | 23.15 | 252 | 1023780 | 9.531  | ng/ul# | 92 |
| 89) Benzo(k)fluoranthene   | 23.15 | 252 | 1023780 | 9.924  | ng/ul# | 91 |
| 91) Benzo(a)pyrene         | 23.76 | 252 | 609935  | 6.016  | ng/ul# | 95 |
| 92) Indeno(1,2,3-cd)pyrene | 26.29 | 276 | 333036  | 2.986  | ng/ul# | 88 |
| 94) Benzo(g,h,i)perylene   | 27.03 | 276 | 309104  | 3.422  | ng/ul# | 91 |

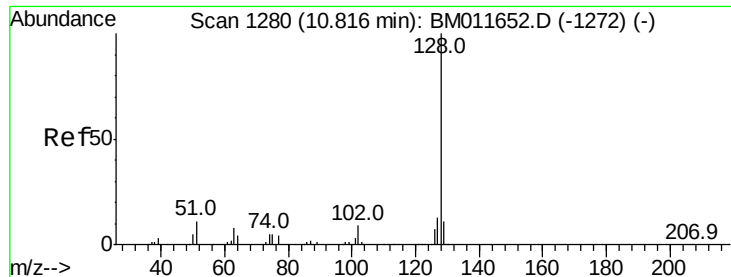
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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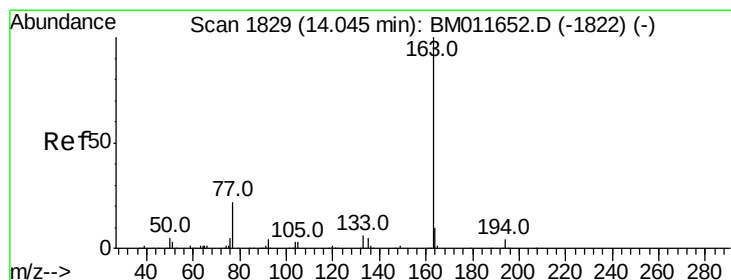
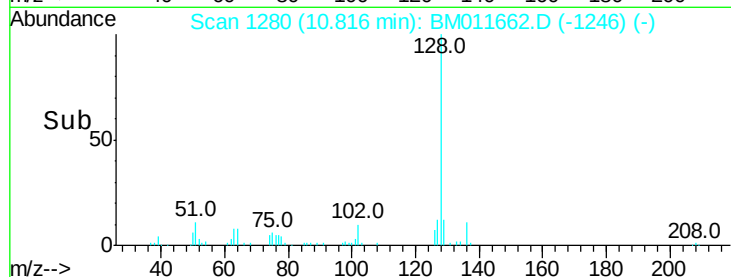
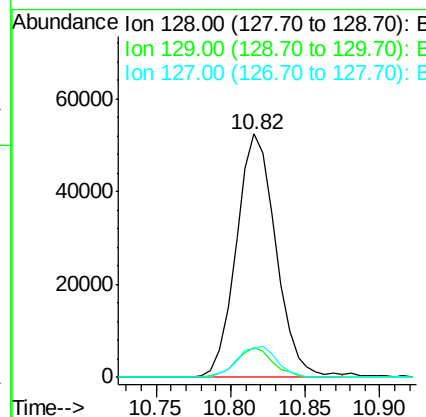
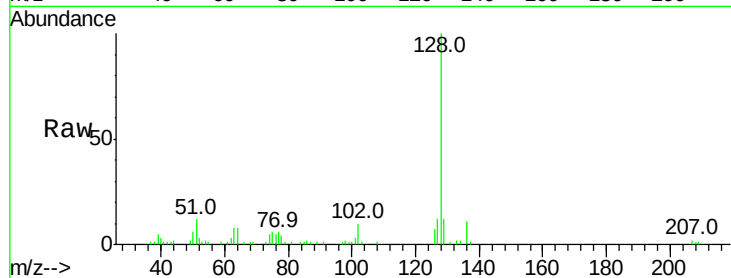




#28  
Naphthalene  
Concen: 1.084 ng/ul  
RT: 10.82 min Scan# 1280  
Delta R.T. -0.00 min  
Lab File: BM011662.D  
Acq: 21 Sep 2017 20:14

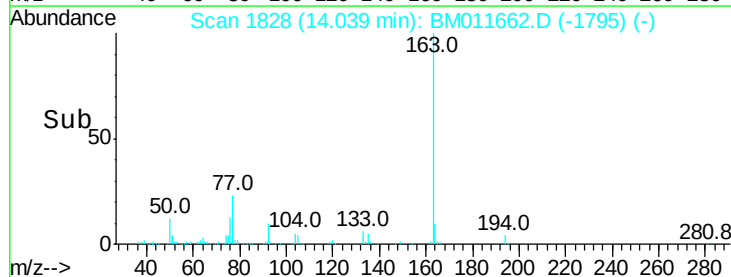
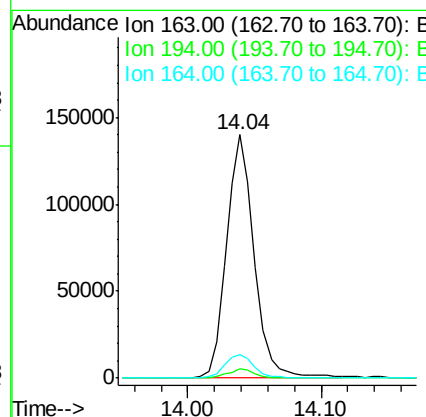
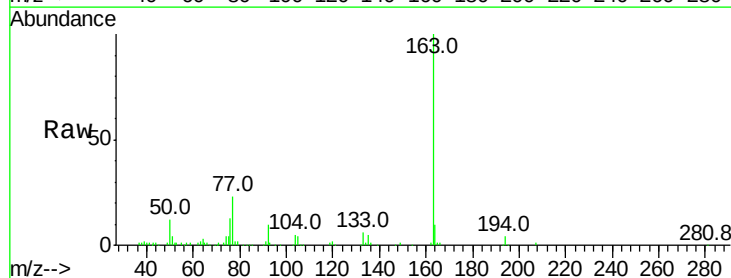
Instrument :  
BNA\_M  
ClientSampleId :

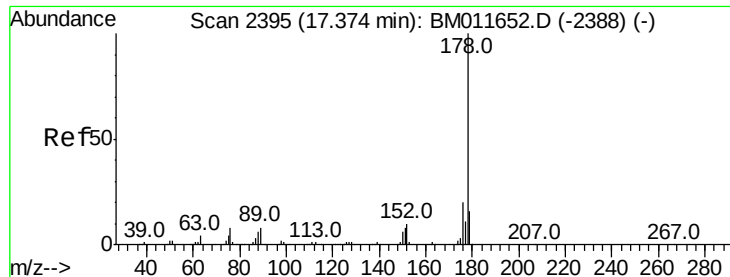
Tot Ion:128 Resp: 96672  
Ion Ratio Lower Upper  
128 100  
129 12.4 8.3 12.5  
127 11.8 10.8 16.2



#45  
Dimethylphthalate  
Concen: 2.559 ng/ul  
RT: 14.04 min Scan# 1828  
Delta R.T. -0.01 min  
Lab File: BM011662.D  
Acq: 21 Sep 2017 20:14

Tgt Ion:163 Resp: 203794  
Ion Ratio Lower Upper  
163 100  
194 3.9 4.0 6.0#  
164 9.7 8.4 12.6





#70

Phenanthrene

Concen: 10.688 ng/ul

RT: 17.37 min Scan# 2395

Delta R.T. -0.00 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

Instrument :

BNA\_M

ClientSampleId :

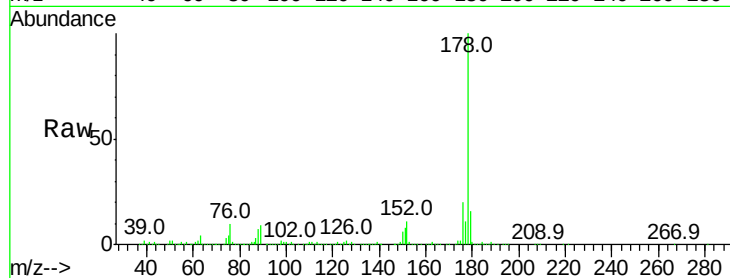
Tot Ion:178 Resp: 1278648

Ion Ratio Lower Upper

178 100

179 15.5 12.3 18.5

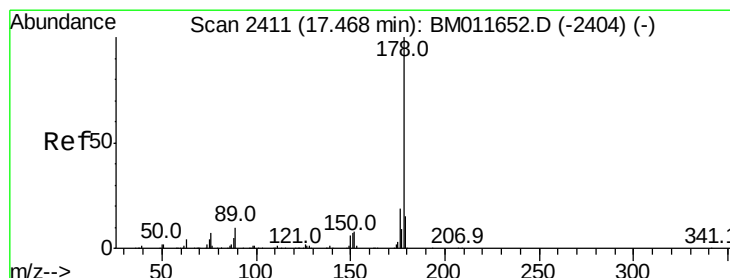
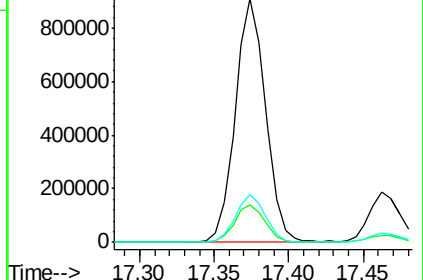
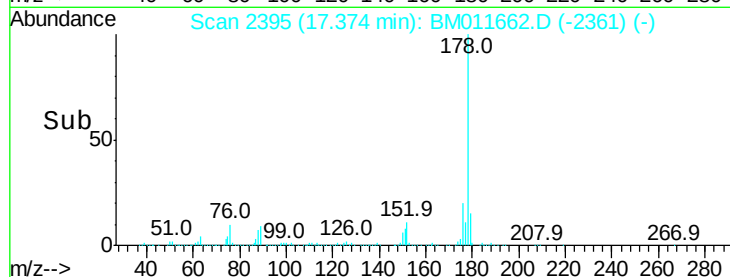
176 19.6 15.4 23.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 2.126 ng/ul

RT: 17.46 min Scan# 2410

Delta R.T. -0.01 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

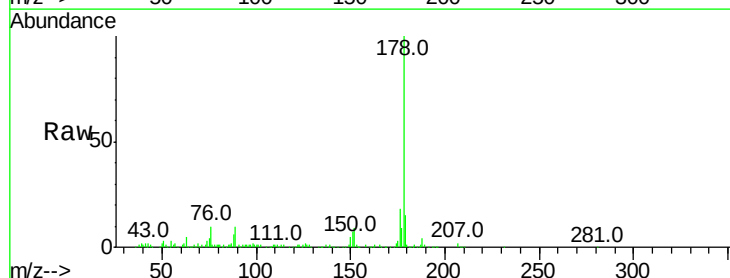
Tgt Ion:178 Resp: 261048

Ion Ratio Lower Upper

178 100

179 14.7 13.4 20.2

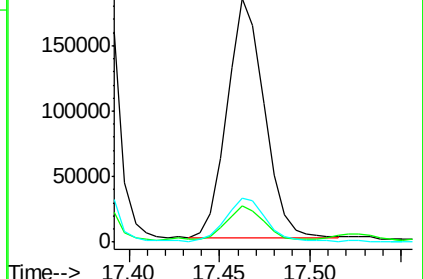
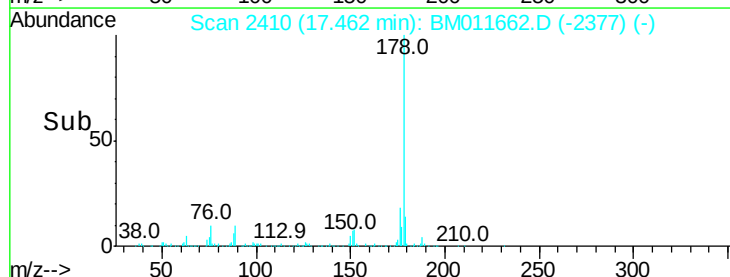
176 18.2 15.4 23.0

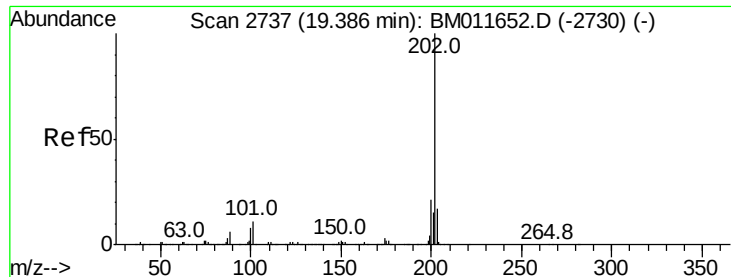


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

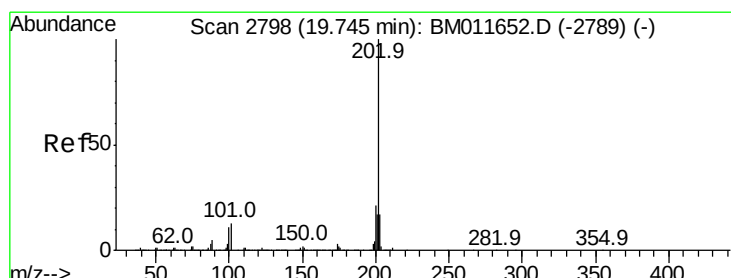
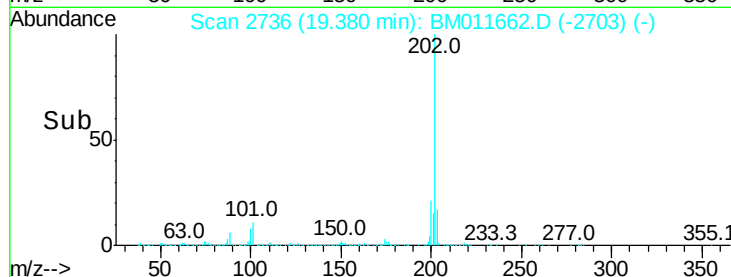
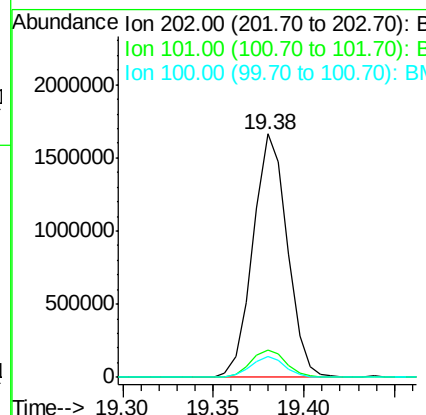
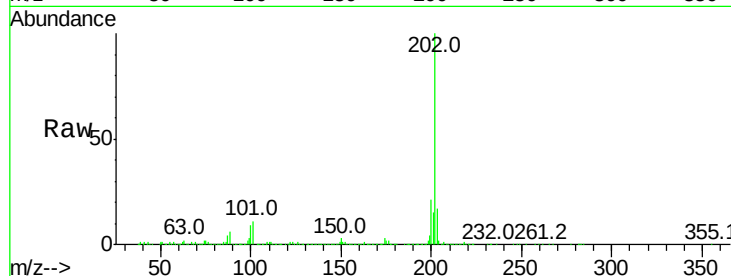




#77  
 Fluoranthene  
 Concen: 17.785 ng/ul  
 RT: 19.38 min Scan# 2736  
 Delta R.T. -0.01 min  
 Lab File: BM011662.D  
 Acq: 21 Sep 2017 20:14

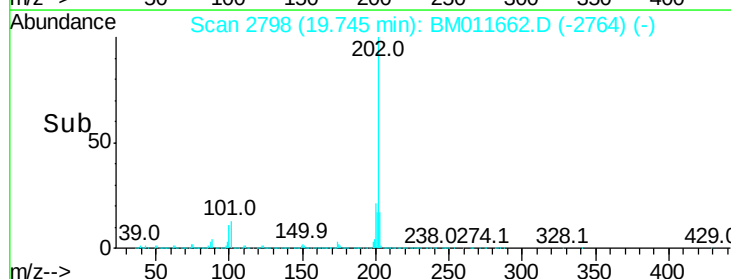
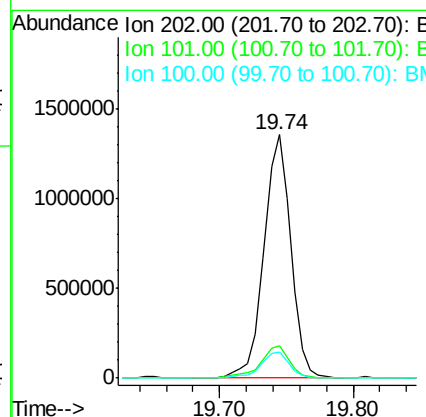
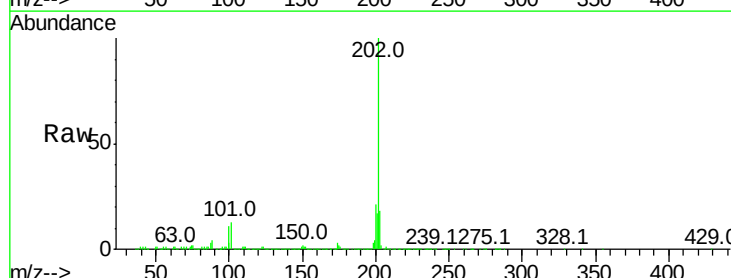
Instrument :  
 BNA\_M  
 ClientSampleId :

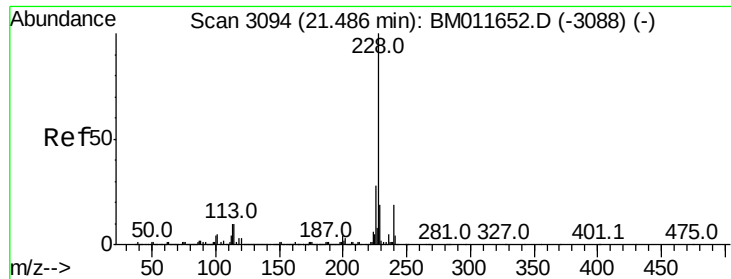
Tot Ion:202 Resp: 2188552  
 Ion Ratio Lower Upper  
 202 100  
 101 11.3 6.1 9.1#  
 100 8.5 4.6 7.0#



#80  
 Pyrene  
 Concen: 14.652 ng/ul  
 RT: 19.74 min Scan# 2798  
 Delta R.T. -0.00 min  
 Lab File: BM011662.D  
 Acq: 21 Sep 2017 20:14

Tgt Ion:202 Resp: 1876726  
 Ion Ratio Lower Upper  
 202 100  
 101 13.1 6.9 10.3#  
 100 10.6 5.6 8.4#

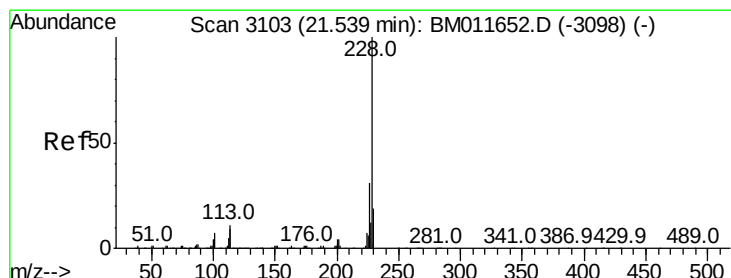
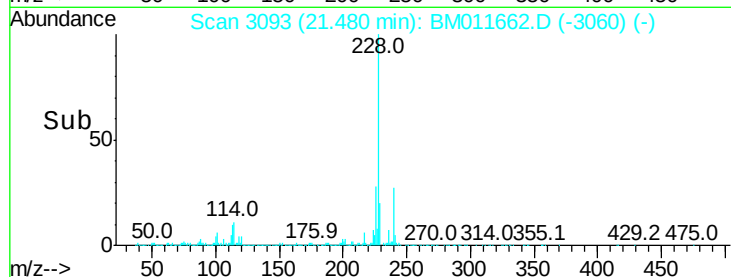
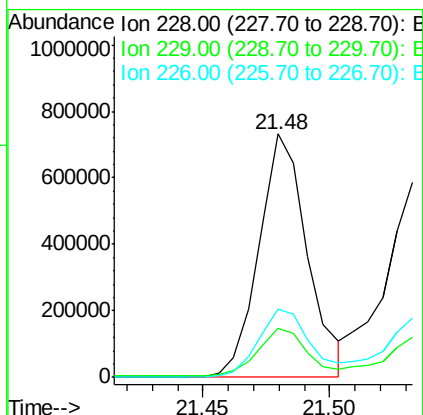
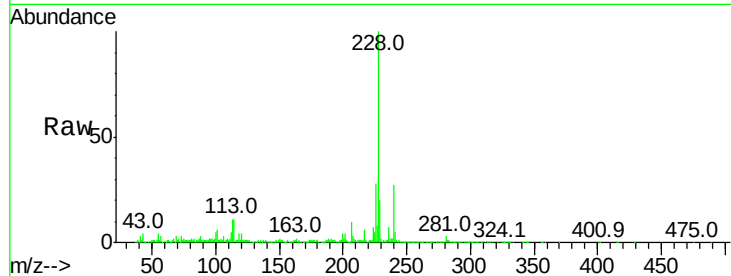




#83  
Benzo(a)anthracene  
Concen: 8.050 ng/ul  
RT: 21.48 min Scan# 3093  
Delta R.T. -0.01 min  
Lab File: BM011662.D  
Acq: 21 Sep 2017 20:14

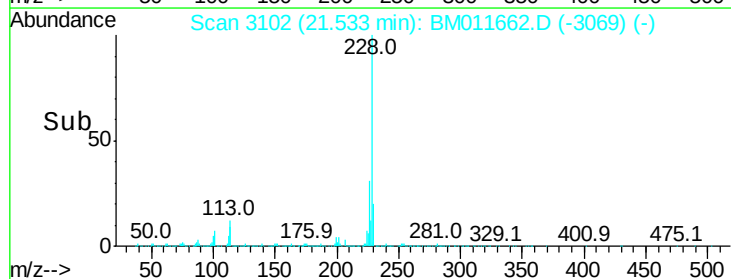
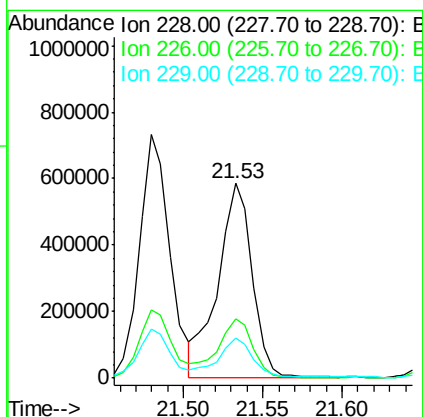
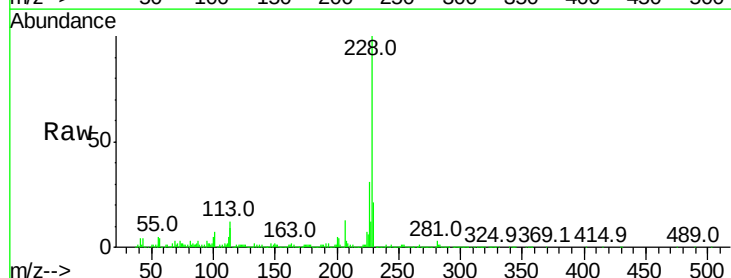
Instrument :  
BNA\_M  
ClientSampleId :

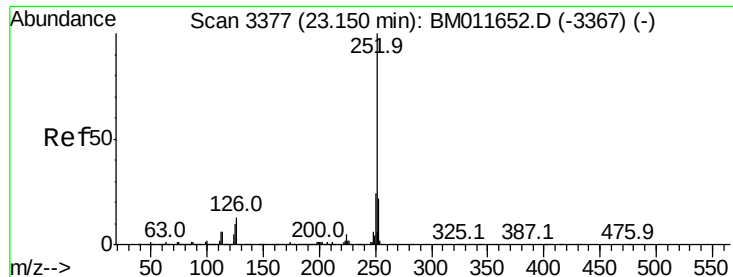
Tot Ion:228 Resp: 973000  
Ion Ratio Lower Upper  
228 100  
229 20.3 16.0 24.0  
226 28.1 21.8 32.8



#85  
Chrysene  
Concen: 7.984 ng/ul  
RT: 21.53 min Scan# 3102  
Delta R.T. -0.01 min  
Lab File: BM011662.D  
Acq: 21 Sep 2017 20:14

Tgt Ion:228 Resp: 874903  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.1 36.1  
229 20.8 16.0 24.0





#88

Benzo(b)fluoranthene

Concen: 9.531 ng/ul

RT: 23.15 min Scan# 3377

Delta R.T. -0.00 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

Instrument :

BNA\_M

ClientSampleId :

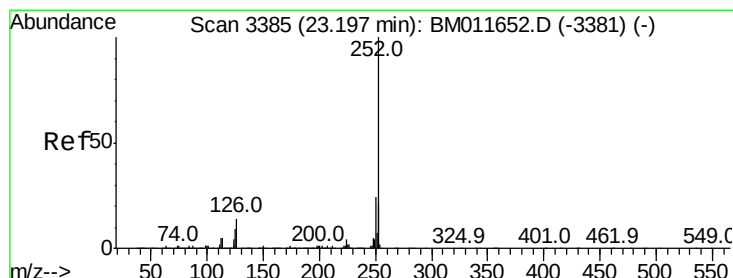
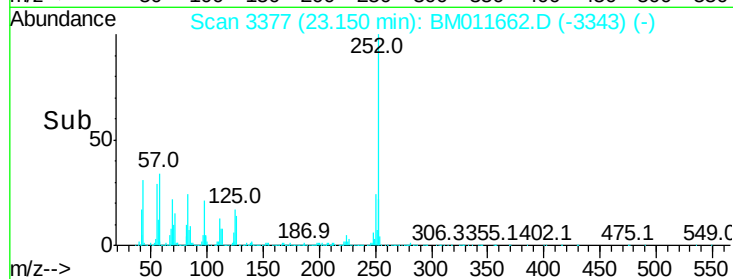
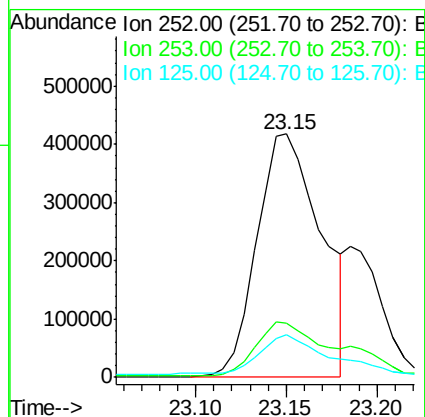
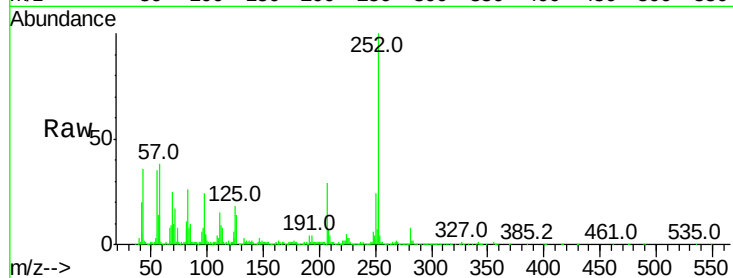
Tot Ion:252 Resp: 1023780

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 17.7 4.9 7.3#



#89

Benzo(k)fluoranthene

Concen: 9.924 ng/ul

RT: 23.15 min Scan# 3377

Delta R.T. -0.05 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

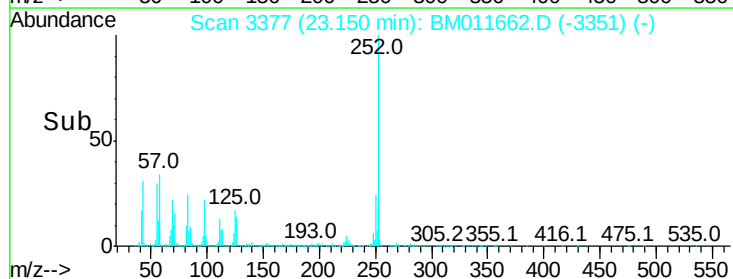
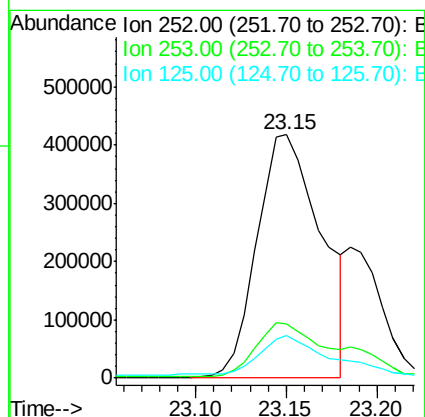
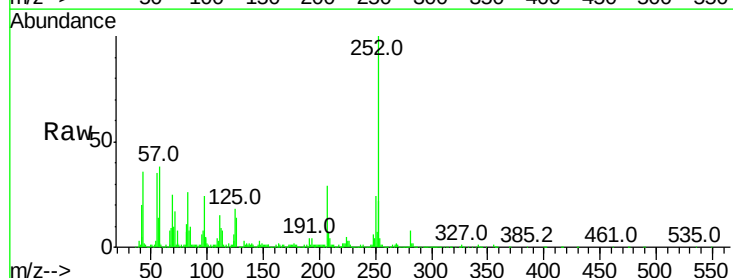
Tgt Ion:252 Resp: 1023780

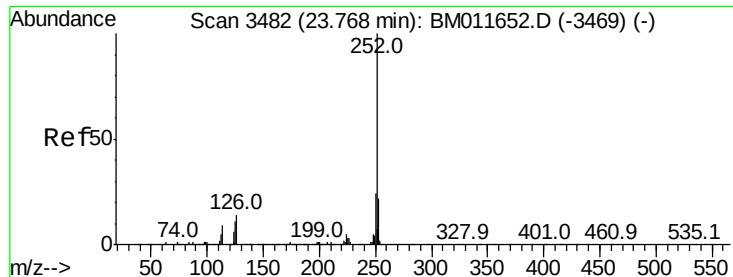
Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

125 17.7 5.4 8.0#





#91

Benzo(a)pyrene

Concen: 6.016 ng/ul

RT: 23.76 min Scan# 3481

Delta R.T. -0.01 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

Instrument :

BNA\_M

ClientSampleId :

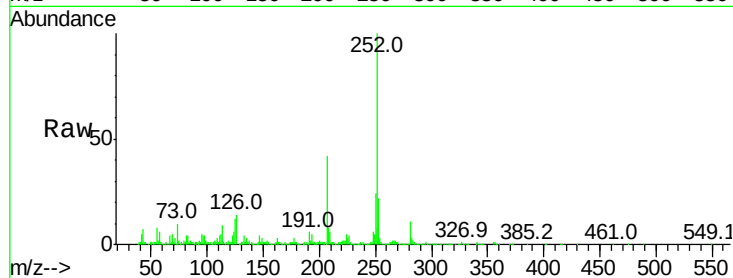
Tot Ion:252 Resp: 609935

Ion Ratio Lower Upper

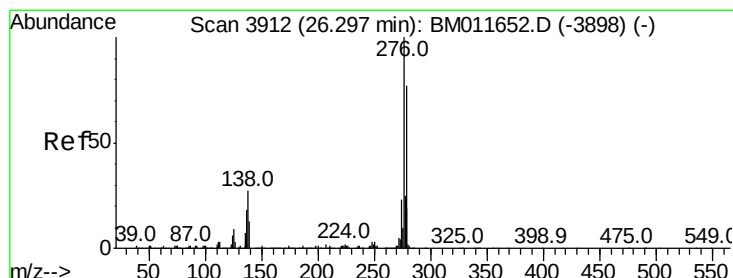
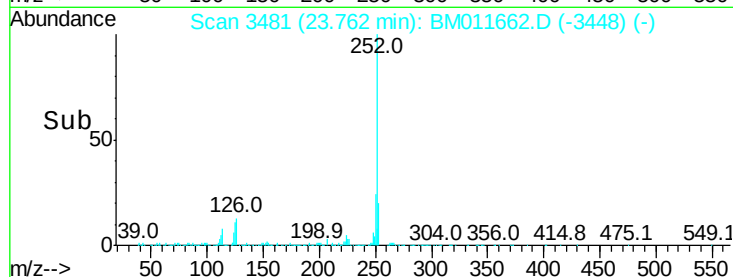
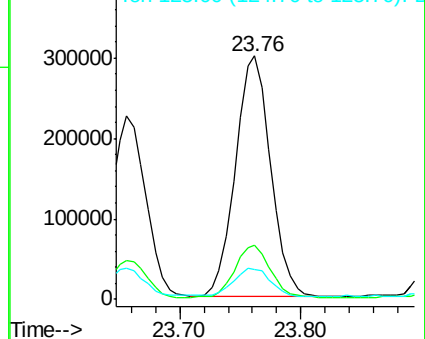
252 100

253 22.1 17.2 25.8

125 12.2 5.8 8.6#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#92

Indeno(1,2,3-cd)pyrene

Concen: 2.986 ng/ul

RT: 26.29 min Scan# 3911

Delta R.T. -0.01 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

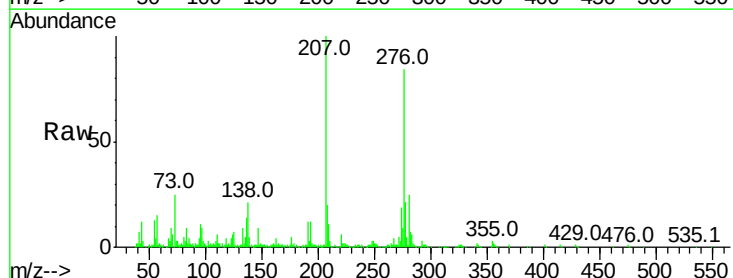
Tgt Ion:276 Resp: 333036

Ion Ratio Lower Upper

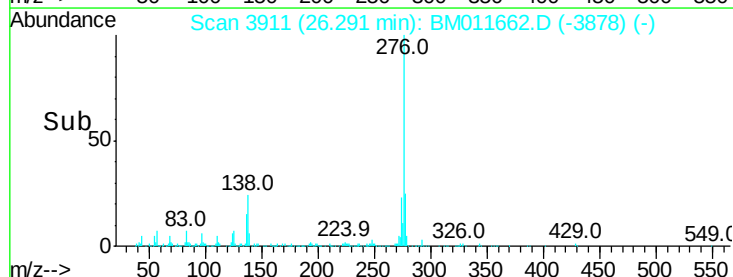
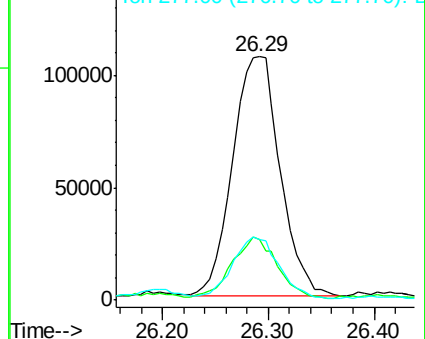
276 100

138 24.9 10.9 16.3#

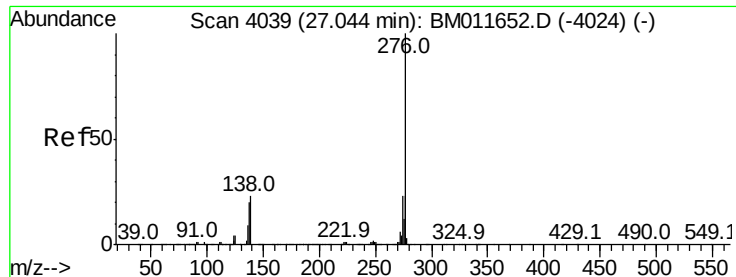
277 25.0 18.9 28.3



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E







#94

Benzo(a,h,i)perylene

Concen: 3.422 ng/ul

RT: 27.03 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BM011662.D

Acq: 21 Sep 2017 20:14

Instrument :

BNA\_M

ClientSampleId :

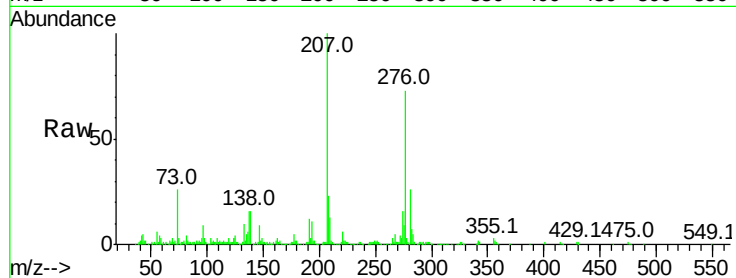
Tot Ion:276 Resp: 309104

Ion Ratio Lower Upper

276 100

138 22.3 11.2 16.8#

277 22.6 19.0 28.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

