

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062716\  
 Data File : BM006074.D  
 Acq On : 27 Jun 2016 17:45  
 Operator : UM/SJ  
 Sample : H3669-19  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y72

Quant Time: Jun 28 02:13:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 28 02:11:41 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 163498   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.44 | 136  | 903491   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.31 | 164  | 626204   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.06 | 188  | 1598855  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.25 | 240  | 1836610  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.47 | 264  | 1673711  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 3645    | 1.00  | ng/uL | 0.00  |
| 3) Phenol-d5                   | 6.83  | 99  | 191717  | 11.15 | ng/ul | 0.00  |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 115926  | 12.12 | ng/ul | 0.00  |
| 5) 2-Chlorophenol-d4           | 7.19  | 132 | 145567  | 12.15 | ng/ul | 0.00  |
| 6) 4-Methylphenol-d8           | 8.36  | 113 | 136396  | 9.39  | ng/ul | 0.00  |
| 8) Nitrobenzene-d5             | 8.81  | 128 | 79702   | 11.59 | ng/ul | 0.00  |
| 9) 2-Nitrophenol-d4            | 9.53  | 143 | 84695   | 11.07 | ng/ul | 0.00  |
| 10) 2,4-Dichlorophenol-d3      | 10.06 | 165 | 175781  | 11.97 | ng/ul | 0.00  |
| 12) 4-Chloroaniline-d4         | 10.57 | 131 | 161238  | 10.12 | ng/ul | 0.00  |
| 16) Dimethylphthalate-d6       | 13.72 | 166 | 623918  | 11.64 | ng/ul | 0.00  |
| 17) Acenaphthylene-d8          | 14.00 | 160 | 796416  | 12.81 | ng/ul | 0.00  |
| 20) 4-Nitrophenol-d4           | 14.52 | 143 | 81089   | 7.09  | ng/ul | -0.01 |
| 21) Fluorene-d10               | 15.30 | 176 | 595515  | 13.01 | ng/ul | 0.00  |
| 24) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 40121   | 4.52  | ng/ul | -0.01 |
| 26) Anthracene-d10             | 17.16 | 188 | 973771  | 13.26 | ng/ul | 0.00  |
| 30) Pyrene-d10                 | 19.46 | 212 | 1198456 | 14.90 | ng/ul | 0.00  |
| 37) Benzo(a)pyrene-d12         | 23.33 | 264 | 977486  | 12.94 | ng/ul | 0.00  |

## Target Compounds

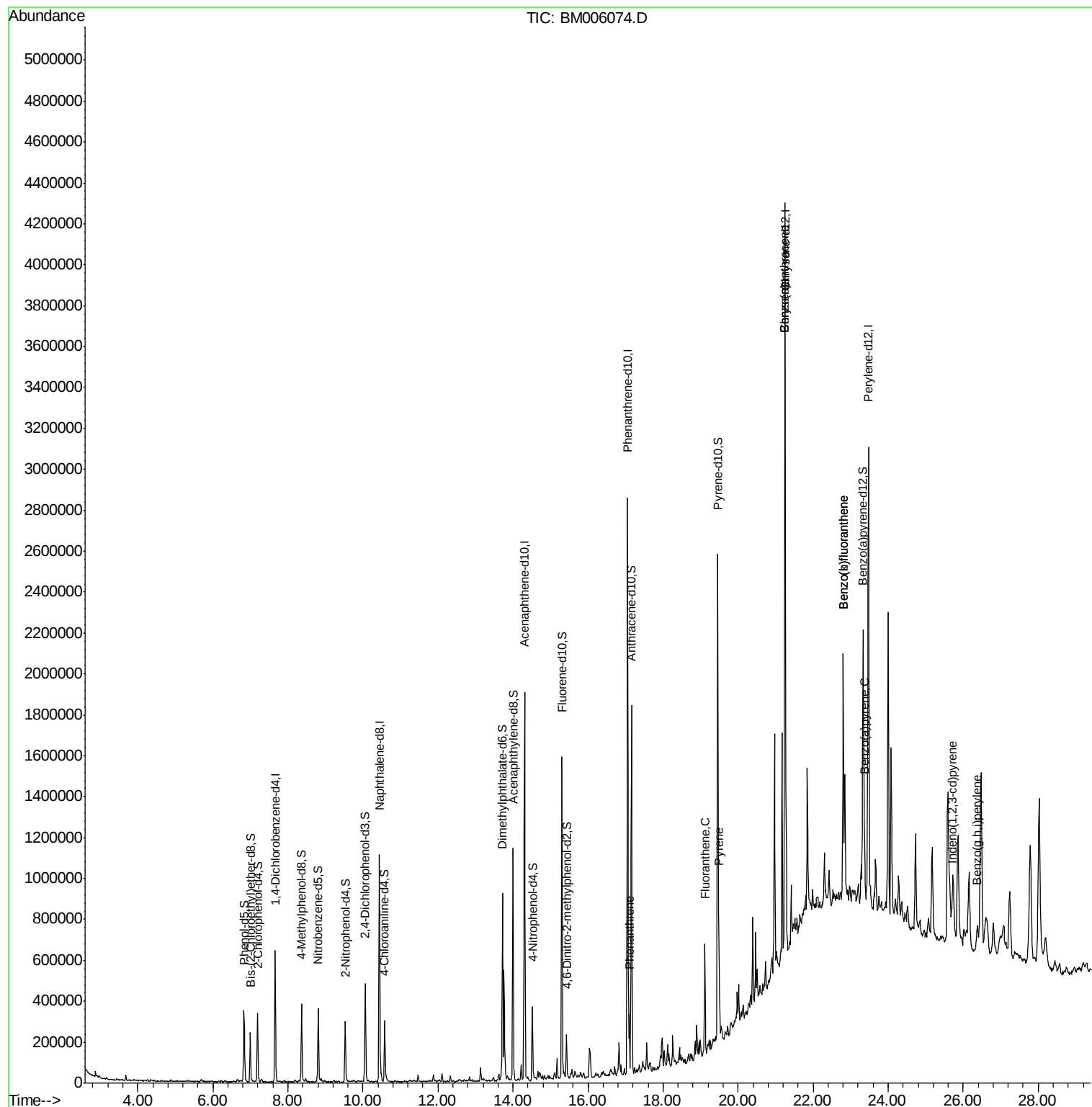
|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 25) Phenanthrene           | 17.10 | 178 | 171862 | 2.00 | ng/ul  | 99     |
| 28) Fluoranthene           | 19.12 | 202 | 326876 | 2.97 | ng/ul  | 99     |
| 31) Pyrene                 | 19.49 | 202 | 277818 | 2.64 | ng/ul  | 96     |
| 32) Benzo(a)anthracene     | 21.24 | 228 | 172531 | 1.58 | ng/ul# | 91     |
| 33) Chrysene               | 21.24 | 228 | 172184 | 1.73 | ng/ul  | 94     |
| 35) Benzo(b)fluoranthene   | 22.81 | 252 | 286412 | 2.95 | ng/ul# | 91     |
| 36) Benzo(k)fluoranthene   | 22.81 | 252 | 286412 | 3.17 | ng/ul# | 92     |
| 38) Benzo(a)pyrene         | 23.37 | 252 | 161163 | 1.73 | ng/ul# | 93     |
| 39) Indeno(1,2,3-cd)pyrene | 25.69 | 276 | 121179 | 1.09 | ng/ul# | 94     |
| 41) Benzo(g,h,i)perylene   | 26.37 | 276 | 119541 | 1.24 | ng/ul  | 97     |

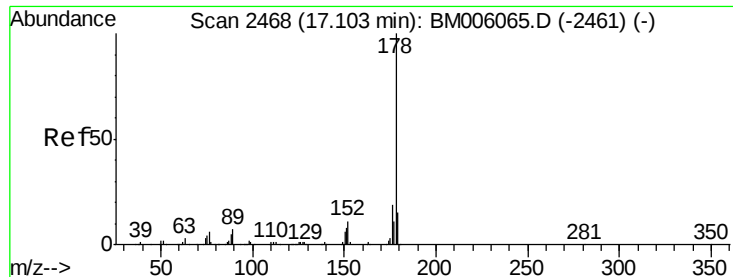
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#25

Phenanthrene

Concen: 2.00 ng/ul

RT: 17.10 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

Instrument :

BNA\_M

ClientSampleId :

D9Y72

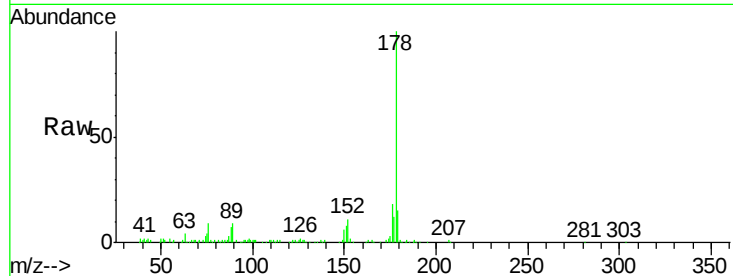
Tgt Ion:178 Resp: 171862

Ion Ratio Lower Upper

178 100

179 15.1 12.2 18.2

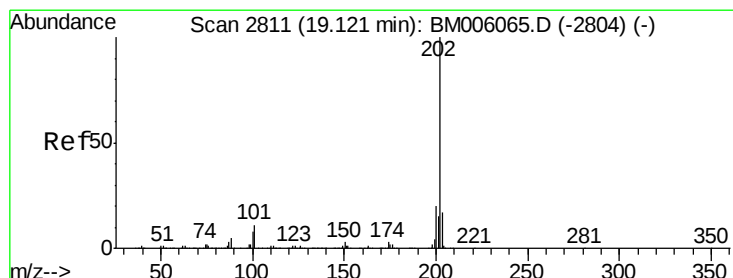
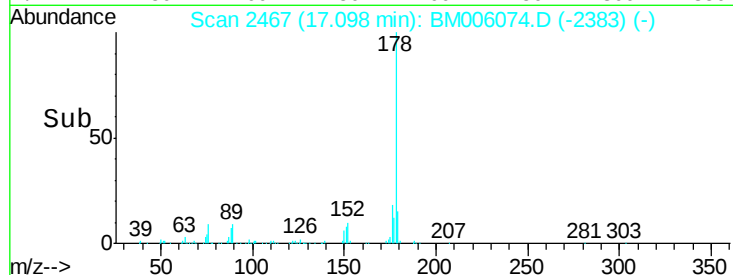
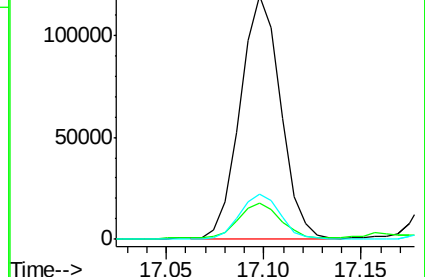
176 18.4 15.3 22.9



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



#28

Fluoranthene

Concen: 2.97 ng/ul

RT: 19.12 min Scan# 2811

Delta R.T. 0.00 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

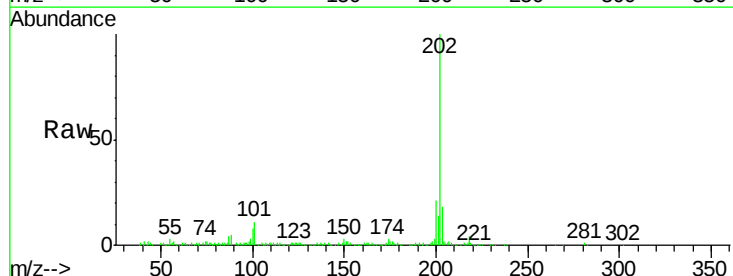
Tgt Ion:202 Resp: 326876

Ion Ratio Lower Upper

202 100

101 10.8 8.5 12.7

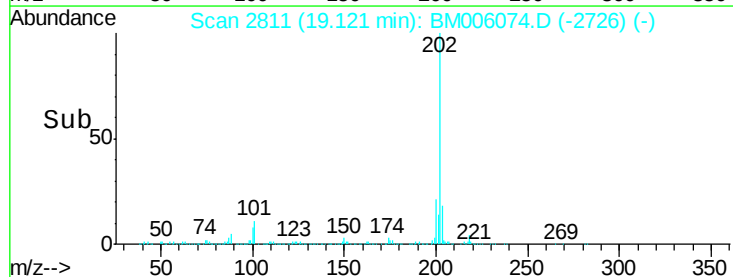
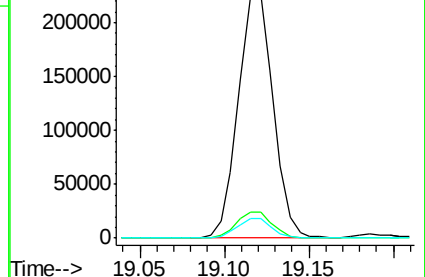
100 7.9 6.5 9.7

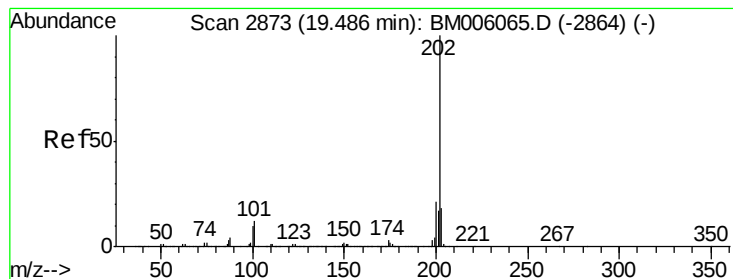


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#31

Pyrene

Concen: 2.64 ng/ul

RT: 19.49 min Scan# 2873

Delta R.T. 0.00 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

Instrument :

BNA\_M

ClientSampleId :

D9Y72

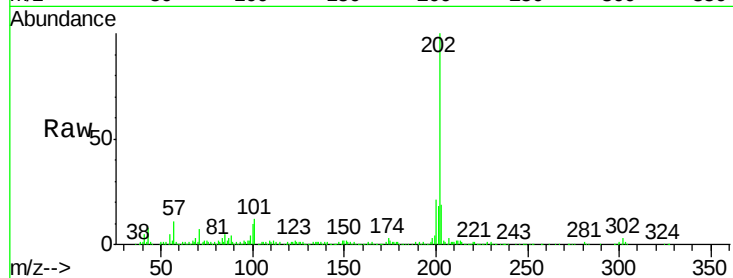
Tgt Ion:202 Resp: 277818

Ion Ratio Lower Upper

202 100

101 12.0 11.0 16.4

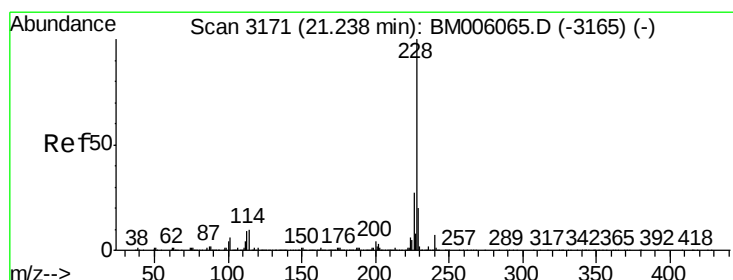
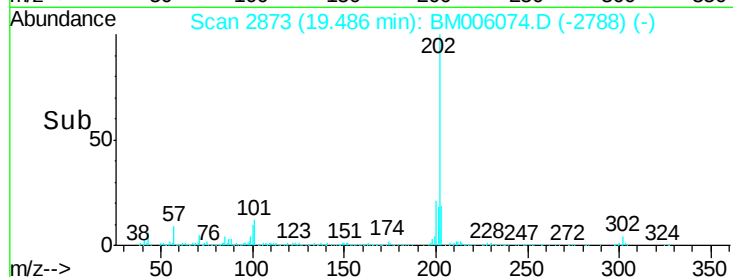
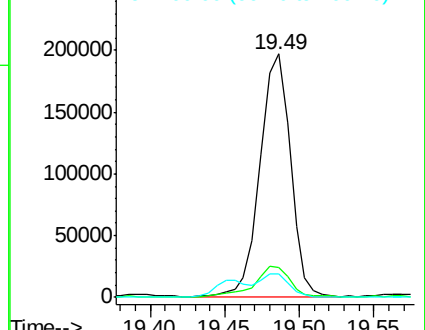
100 9.6 8.9 13.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#32

Benzo(a)anthracene

Concen: 1.58 ng/ul

RT: 21.24 min Scan# 3171

Delta R.T. 0.00 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

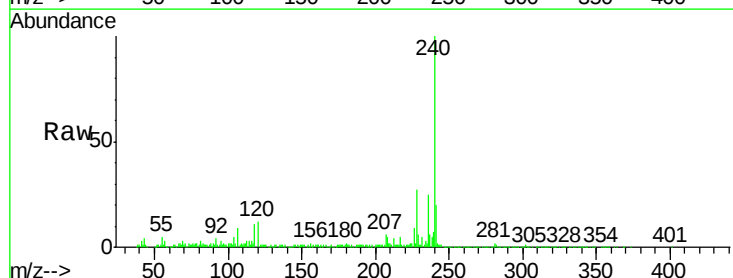
Tgt Ion:228 Resp: 172531

Ion Ratio Lower Upper

228 100

229 22.3 15.6 23.4

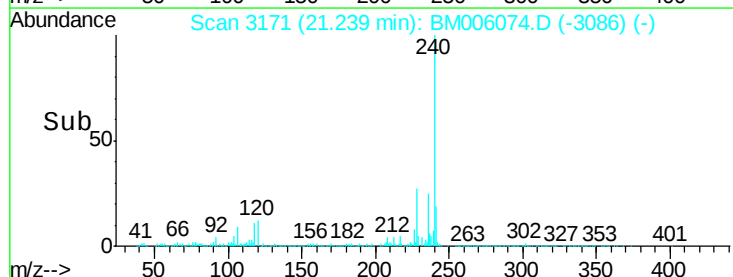
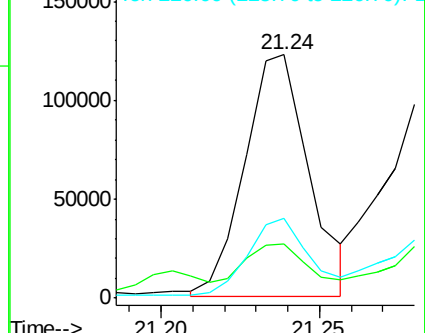
226 32.6 21.6 32.4#

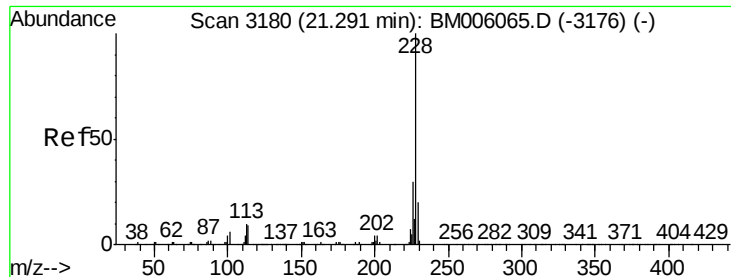


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#33

Chrysene

Concen: 1.73 ng/ul

RT: 21.24 min Scan# 3171

Delta R.T. -0.05 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

Instrument :

BNA\_M

ClientSampleId :

D9Y72

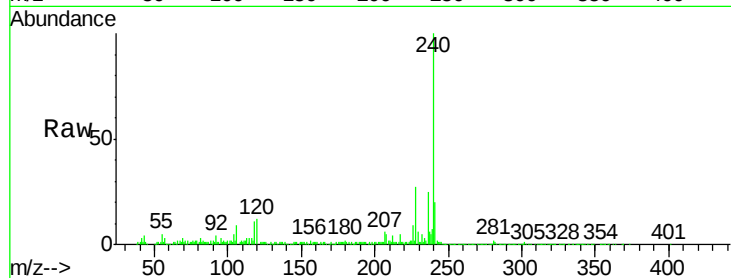
Tgt Ion:228 Resp: 172184

Ion Ratio Lower Upper

228 100

226 32.6 23.8 35.6

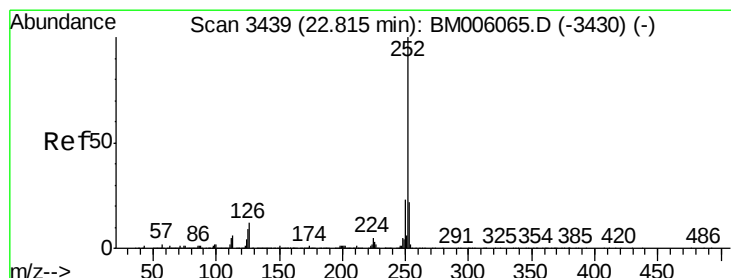
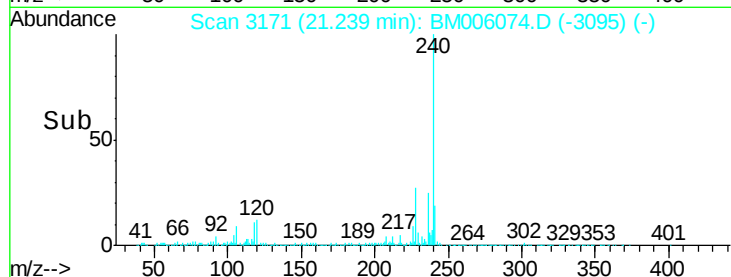
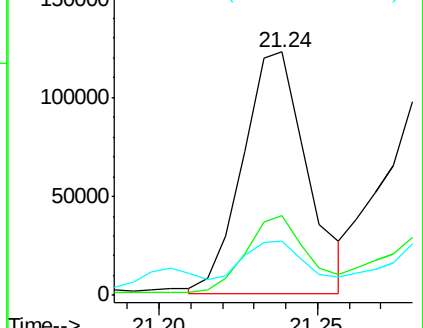
229 22.3 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#35

Benzo(b)fluoranthene

Concen: 2.95 ng/ul

RT: 22.81 min Scan# 3438

Delta R.T. -0.01 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

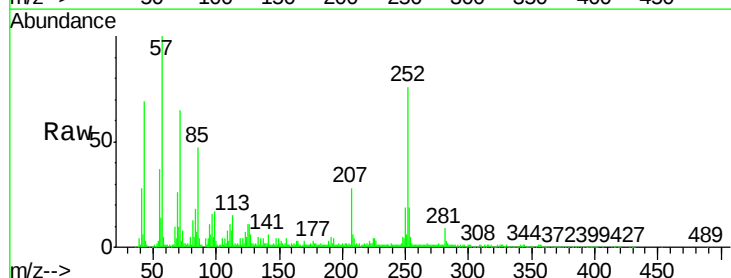
Tgt Ion:252 Resp: 286412

Ion Ratio Lower Upper

252 100

253 25.0 17.2 25.8

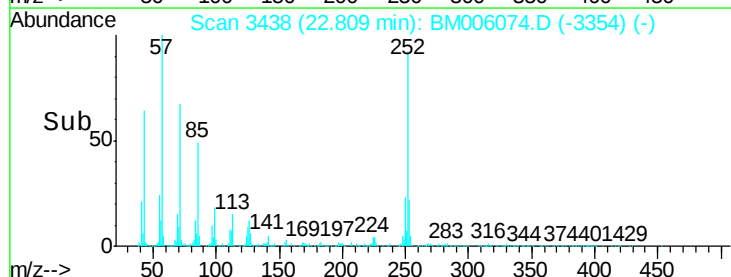
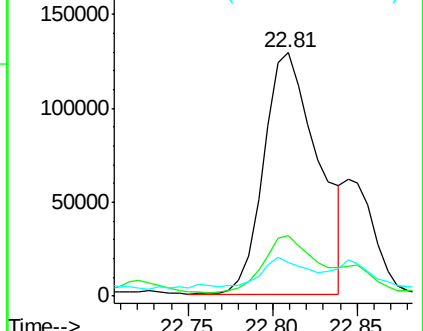
125 14.0 7.8 11.6#

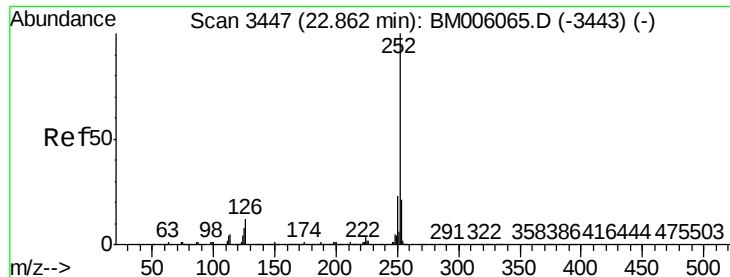


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#36

Benzo(k)fluoranthene

Concen: 3.17 ng/ul

RT: 22.81 min Scan# 3438

Delta R.T. -0.05 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

Instrument :

BNA\_M

ClientSampleId :

D9Y72

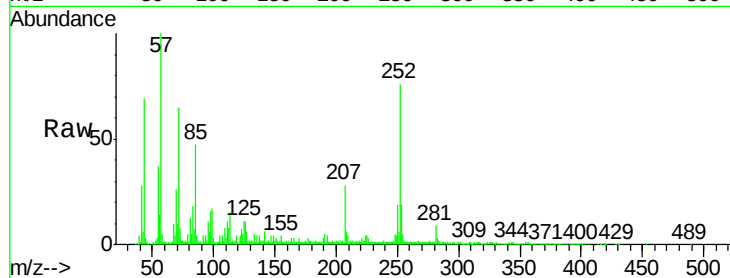
Tgt Ion:252 Resp: 286412

Ion Ratio Lower Upper

252 100

253 25.0 17.6 26.4

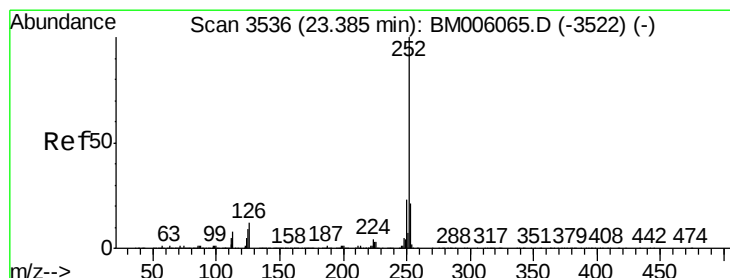
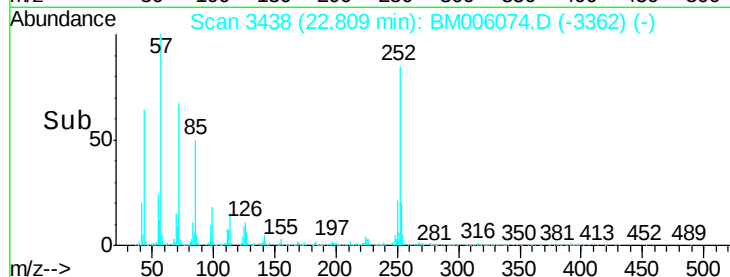
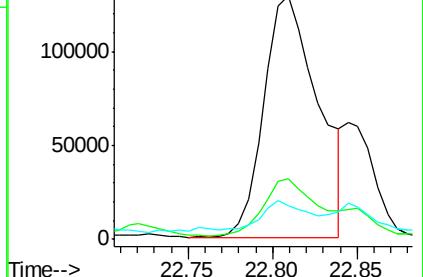
125 14.0 8.1 12.1#



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



#38

Benzo(a)pyrene

Concen: 1.73 ng/ul

RT: 23.37 min Scan# 3534

Delta R.T. -0.01 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

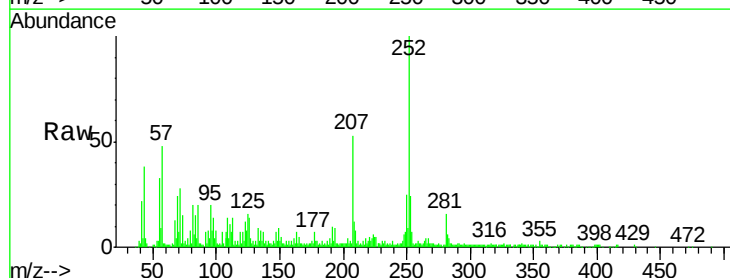
Tgt Ion:252 Resp: 161163

Ion Ratio Lower Upper

252 100

253 24.1 17.8 26.6

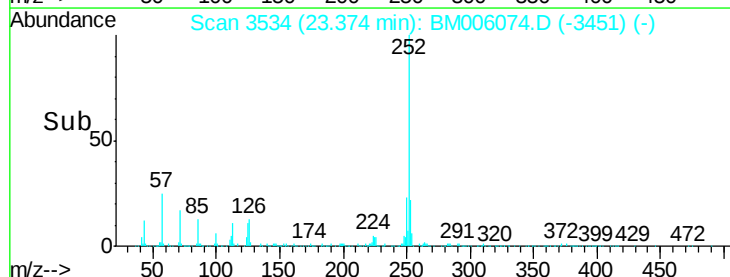
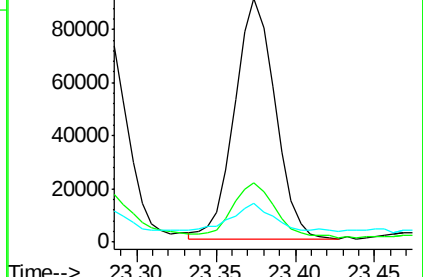
125 16.2 8.7 13.1#

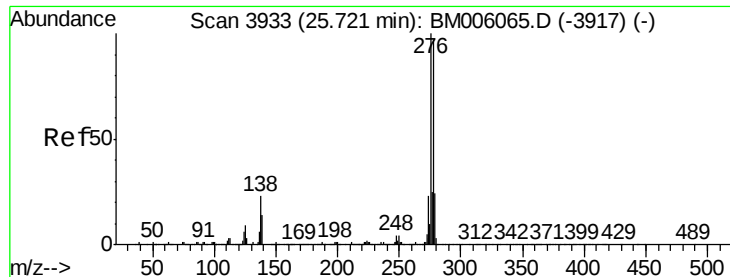


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: 1.09 ng/ul

RT: 25.69 min Scan# 3928

Delta R.T. -0.03 min

Lab File: BM006074.D

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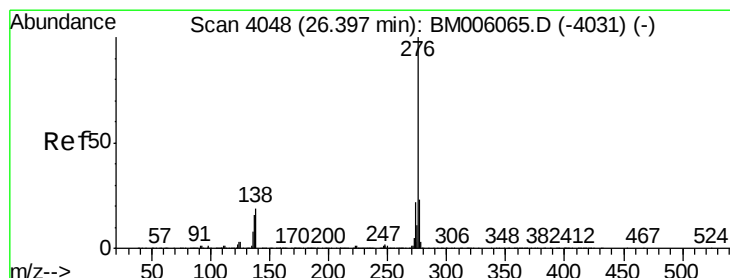
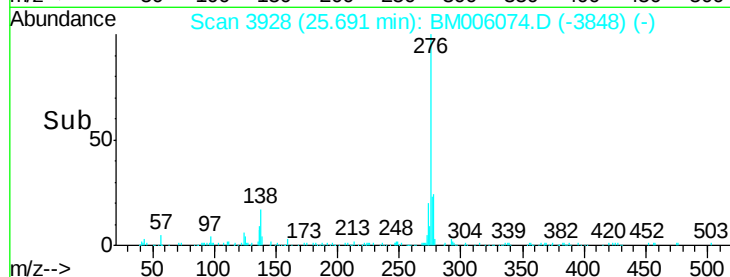
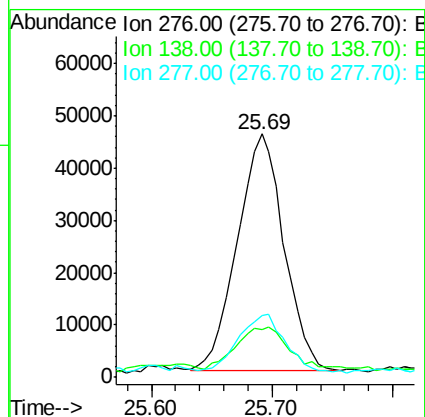
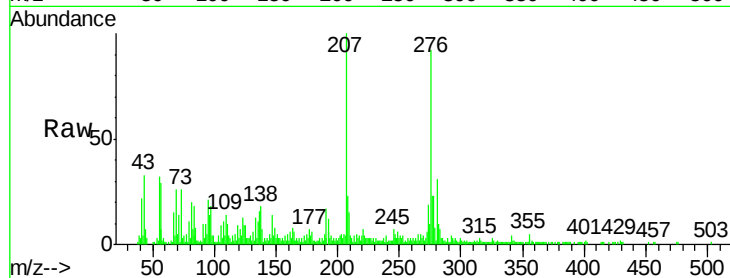
Tgt Ion: 276 Resp: 121179

Ion Ratio Lower Upper

276 100

138 19.6 20.4 30.6#

277 25.2 20.6 30.8



#41

Benzo(g,h,i)perylene

Concen: 1.24 ng/ul

RT: 26.37 min Scan# 4044

Delta R.T. -0.02 min

Lab File: BM006074.D

Acq: 27 Jun 2016 17:45

Tgt Ion: 276 Resp: 119541

Ion Ratio Lower Upper

276 100

138 21.0 16.6 25.0

277 26.0 18.9 28.3

