

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080716\  
 Data File : BM006980.D  
 Acq On : 08 Aug 2016 06:24  
 Operator : UM/SJ  
 Sample : H4301-15  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DA0F6

Quant Time: Aug 08 16:06:33 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080616.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 08 15:12:48 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 286395   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.32 | 136  | 1288877  | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.21 | 164  | 770654   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 16.97 | 188  | 1752652  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.18 | 240  | 1636007  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.37 | 264  | 1473033  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.08  | 96  | 11683   | 1.86  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.76  | 99  | 586329  | 21.59 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.90  | 67  | 430323  | 25.27 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.09  | 132 | 477336  | 24.62 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.29  | 113 | 407621  | 17.98 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.71  | 128 | 262414  | 27.41 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.43  | 143 | 299285  | 26.10 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 9.97  | 165 | 511331  | 23.53 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.49 | 131 | 546566  | 21.06 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.63 | 166 | 1726929 | 25.46 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.90 | 160 | 2135665 | 27.23 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.50 | 143 | 184567  | 18.76 | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.21 | 176 | 1522578 | 26.41 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 128670  | 17.78 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.07 | 188 | 2298255 | 27.14 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.37 | 212 | 2470234 | 31.68 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.23 | 264 | 1838061 | 26.20 | ng/ul | 0.00 |

## Target Compounds

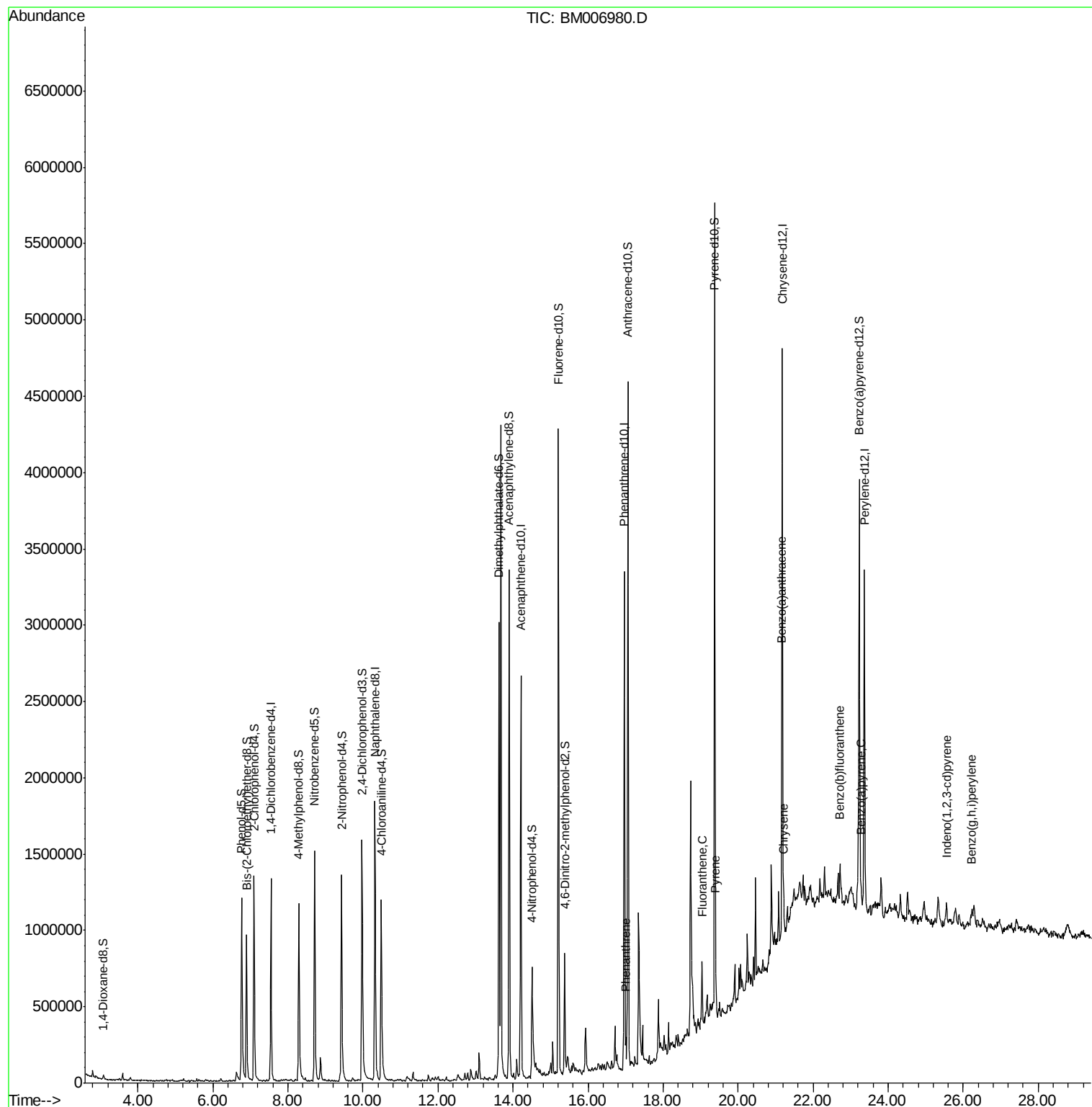
|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 25) Phenanthrene           | 17.01 | 178 | 106292 | 1.08 | ng/ul  | 99     |
| 28) Fluoranthene           | 19.04 | 202 | 202765 | 1.70 | ng/ul# | 97     |
| 31) Pyrene                 | 19.40 | 202 | 175183 | 1.72 | ng/ul# | 97     |
| 32) Benzo(a)anthracene     | 21.16 | 228 | 122628 | 1.26 | ng/ul# | 92     |
| 33) Chrysene               | 21.22 | 228 | 141344 | 1.65 | ng/ul# | 92     |
| 35) Benzo(b)fluoranthene   | 22.72 | 252 | 183804 | 1.91 | ng/ul# | 96     |
| 38) Benzo(a)pyrene         | 23.27 | 252 | 102918 | 1.18 | ng/ul# | 90     |
| 39) Indeno(1,2,3-cd)pyrene | 25.56 | 276 | 97168  | 1.10 | ng/ul  | 94     |
| 41) Benzo(g,h,i)perylene   | 26.23 | 276 | 91558  | 1.31 | ng/ul# | 89     |

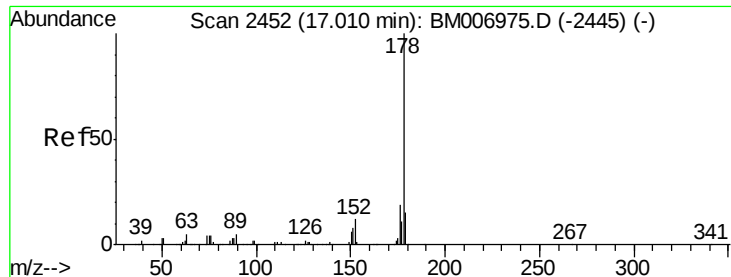
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#25

Phenanthrene

Concen: 1.08 ng/ul

RT: 17.01 min Scan# 2452

Delta R.T. 0.00 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

Instrument :

BNA\_M

ClientSampled :

DA0F6

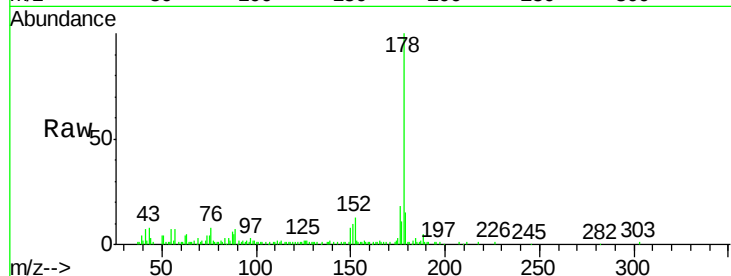
Tgt Ion:178 Resp: 106292

Ion Ratio Lower Upper

178 100

179 15.3 12.0 18.0

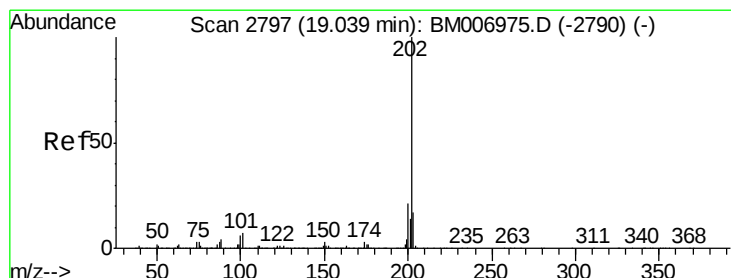
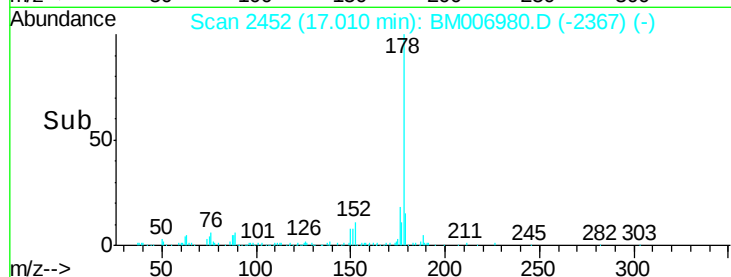
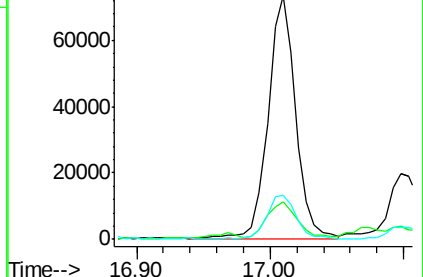
176 17.9 15.0 22.4



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: 1.70 ng/ul

RT: 19.04 min Scan# 2797

Delta R.T. 0.00 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

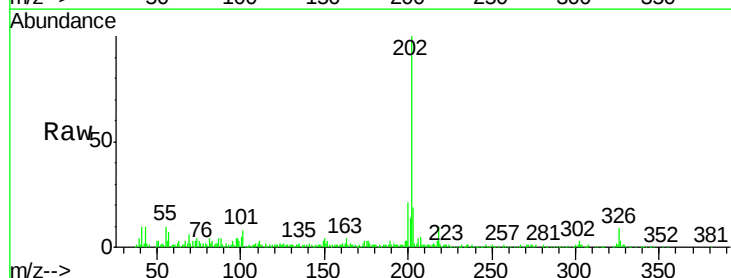
Tgt Ion:202 Resp: 202765

Ion Ratio Lower Upper

202 100

101 8.5 5.6 8.4#

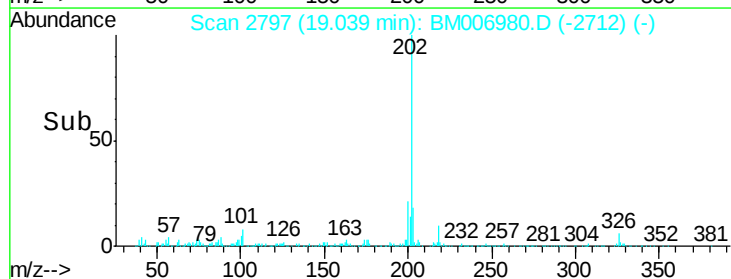
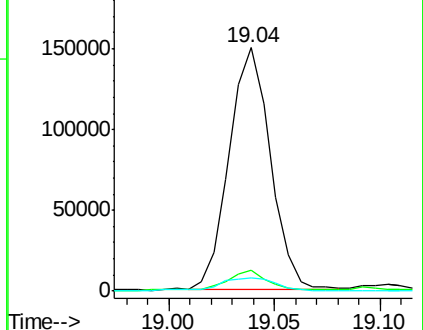
100 5.4 4.2 6.4

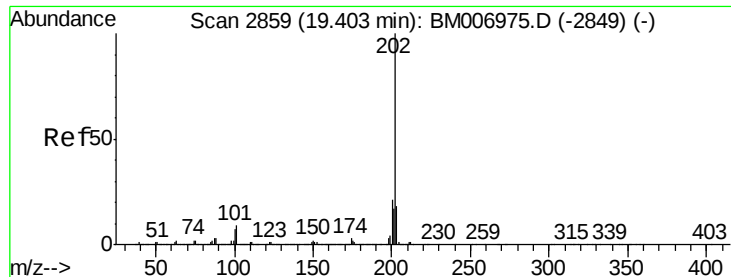


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#31

Pyrene

Concen: 1.72 ng/ul

RT: 19.40 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

Instrument :

BNA\_M

ClientSampleId :

DA0F6

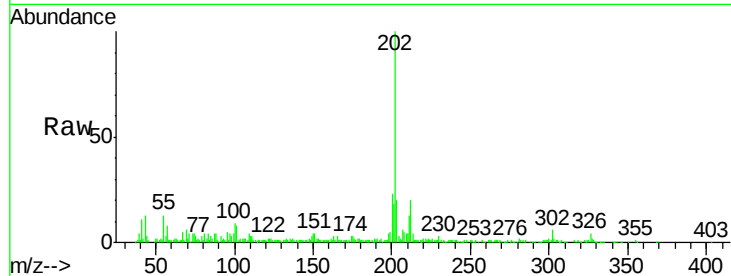
Tgt Ion:202 Resp: 175183

Ion Ratio Lower Upper

202 100

101 8.3 6.4 9.6

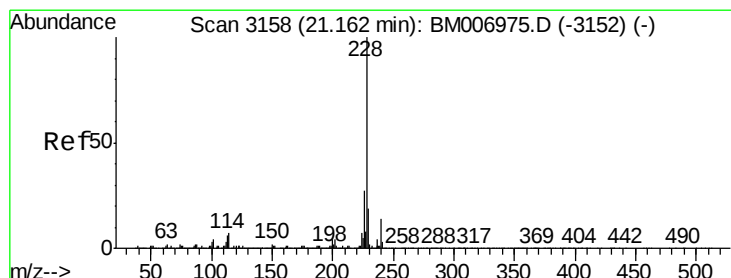
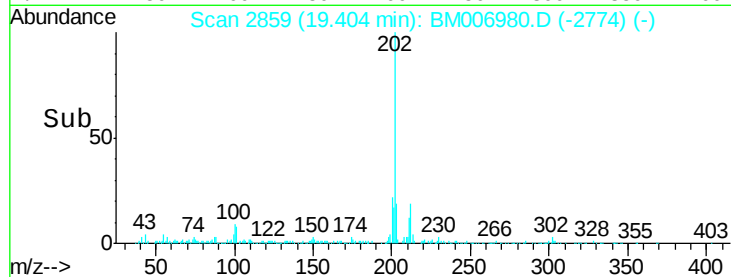
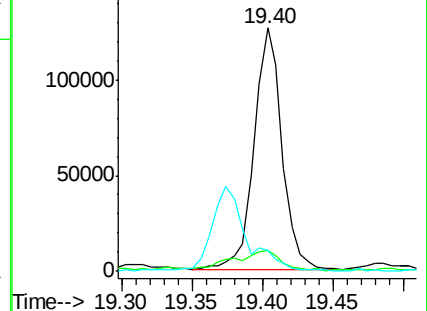
100 8.8 5.4 8.2#



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: 1.26 ng/ul

RT: 21.16 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

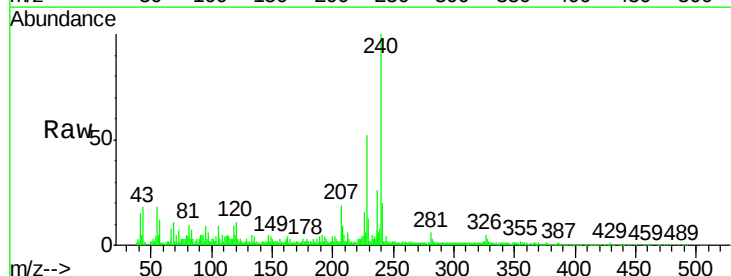
Tgt Ion:228 Resp: 122628

Ion Ratio Lower Upper

228 100

229 23.9 15.2 22.8#

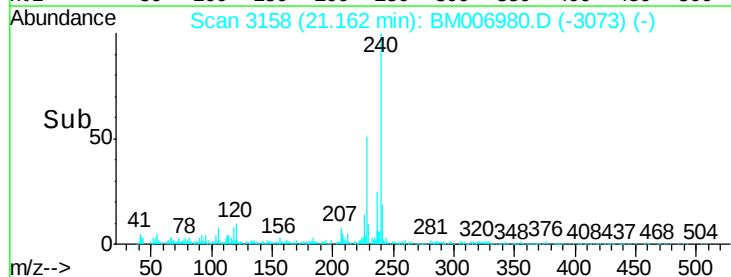
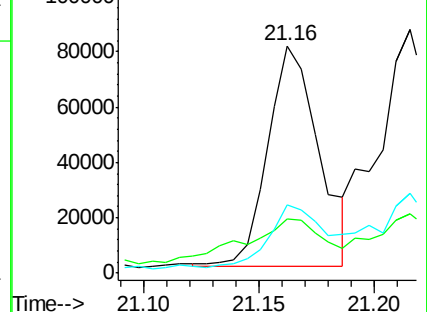
226 30.0 21.3 31.9

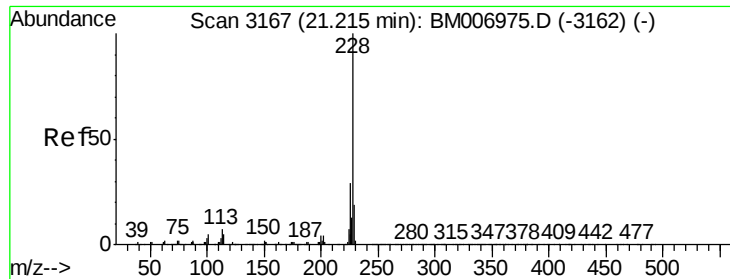


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#33

Chrysene

Concen: 1.65 ng/ul

RT: 21.22 min Scan# 3167

Delta R.T. 0.00 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

Instrument :

BNA\_M

ClientSampleID :

DA0F6

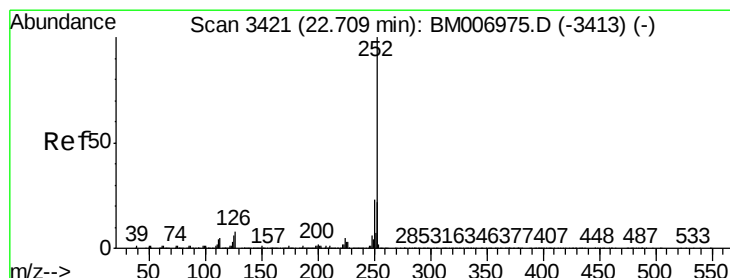
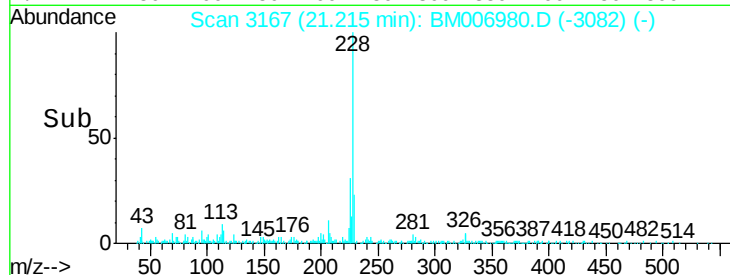
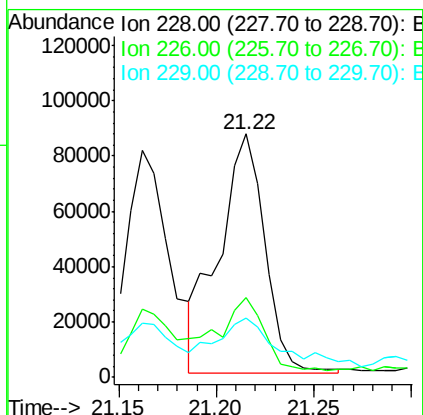
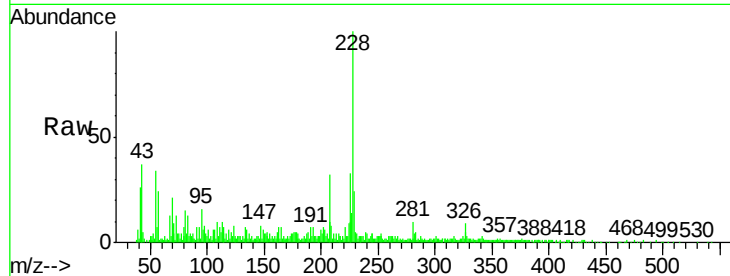
Tgt Ion:228 Resp: 141344

Ion Ratio Lower Upper

228 100

226 32.6 23.8 35.6

229 24.3 15.1 22.7#



#35

Benzo(b)fluoranthene

Concen: 1.91 ng/ul

RT: 22.72 min Scan# 3423

Delta R.T. 0.01 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

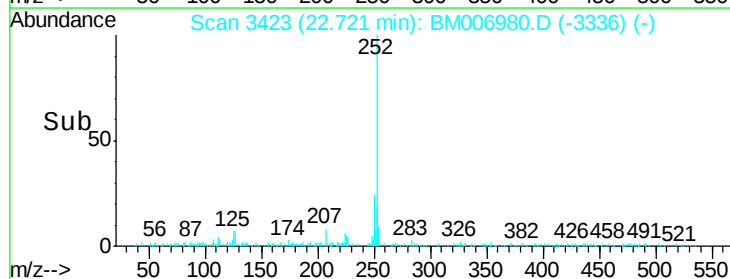
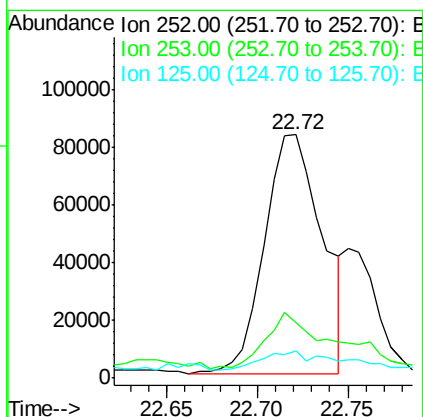
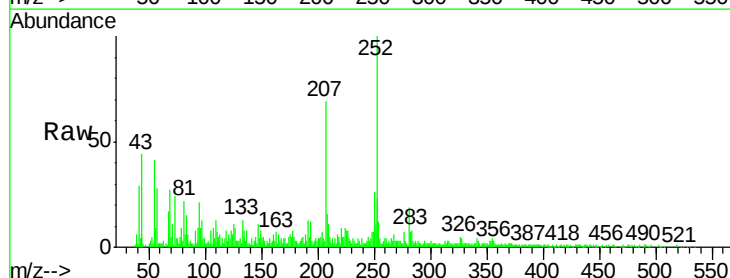
Tgt Ion:252 Resp: 183804

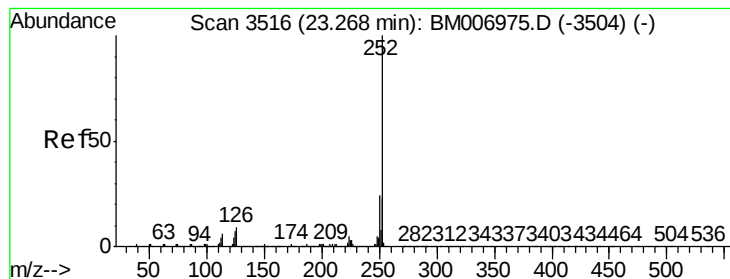
Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 11.1 5.1 7.7#





#38

Benzo(a)pyrene

Concen: 1.18 ng/ul

RT: 23.27 min Scan# 3517

Delta R.T. 0.01 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

Instrument :

BNA\_M

ClientSampleId :

DA0F6

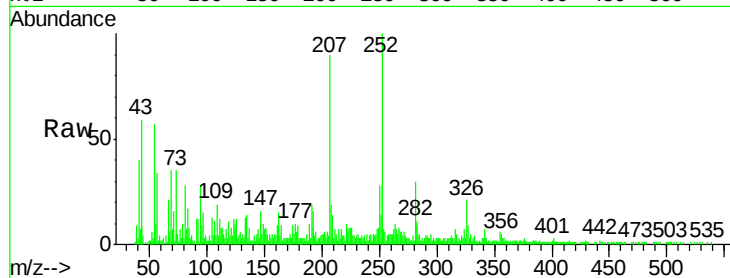
Tgt Ion:252 Resp: 102918

Ion Ratio Lower Upper

252 100

253 27.6 18.2 27.2#

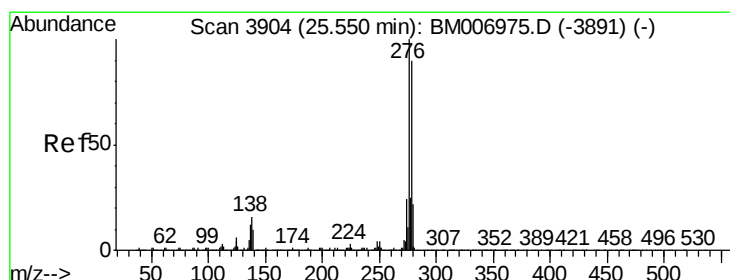
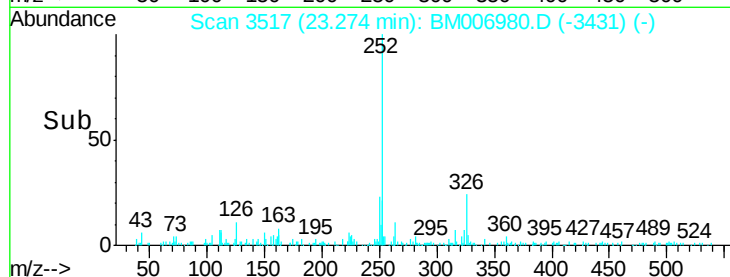
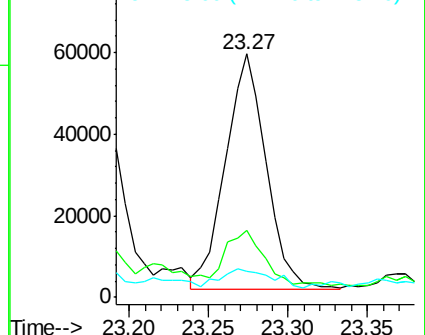
125 10.5 5.6 8.4#



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: 1.10 ng/ul

RT: 25.56 min Scan# 3905

Delta R.T. 0.01 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

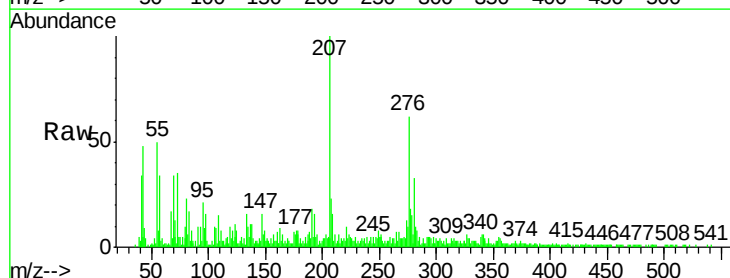
Tgt Ion:276 Resp: 97168

Ion Ratio Lower Upper

276 100

138 17.7 12.6 19.0

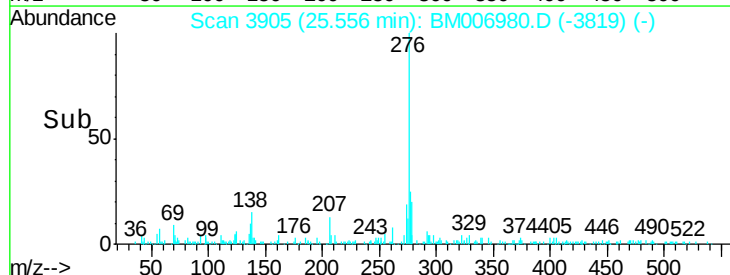
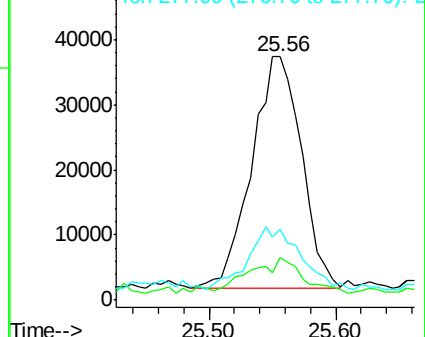
277 28.8 20.3 30.5

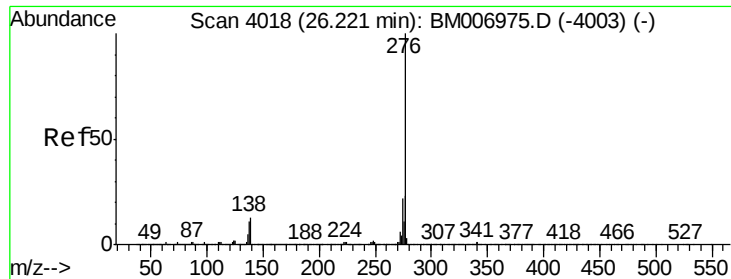


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#41

Benzo(g,h,i)perylene

Concen: 1.31 ng/ul

RT: 26.23 min Scan# 4019

Delta R.T. 0.01 min

Lab File: BM006980.D

Acq: 08 Aug 2016 06:24

Instrument :

BNA\_M

ClientSampleId :

DA0F6

Tgt Ion:276 Resp: 91558

Ion Ratio Lower Upper

276 100

138 14.2 10.9 16.3

277 31.3 18.6 27.8#

