

Data Path : Z:\HPCHEM1\BNA M\DATA\BM073016\  
 Data File : BM006807.D  
 Acq On : 01 Aug 2016 02:33  
 Operator : UM/SJ  
 Sample : H4188-16MSD  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 01 04:30:51 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jul 30 01:37:26 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 259835   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.38 | 136  | 1126624  | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.26 | 164  | 615131   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.01 | 188  | 1325830  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.21 | 240  | 1378101  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.42 | 264  | 1453987  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.13  | 96  | 7977    | 1.24  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.79  | 99  | 309420  | 14.00 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 237197  | 17.32 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.14  | 132 | 272337  | 15.42 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.32  | 113 | 163100  | 9.51  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.84  | 128 | 595     | 0.07  | ng/ul | 0.08 |
| 9) 2-Nitrophenol-d4            | 9.47  | 143 | 161432  | 17.80 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 271493  | 15.84 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.53 | 131 | 236110  | 12.51 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.67 | 166 | 849693  | 17.62 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.95 | 160 | 1096949 | 17.82 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.49 | 143 | 80119   | 9.56  | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.26 | 176 | 755653  | 17.52 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 69834   | 10.15 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.11 | 188 | 1125984 | 17.89 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.42 | 212 | 1207800 | 19.23 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.28 | 264 | 1213306 | 18.14 | ng/ul | 0.00 |

## Target Compounds

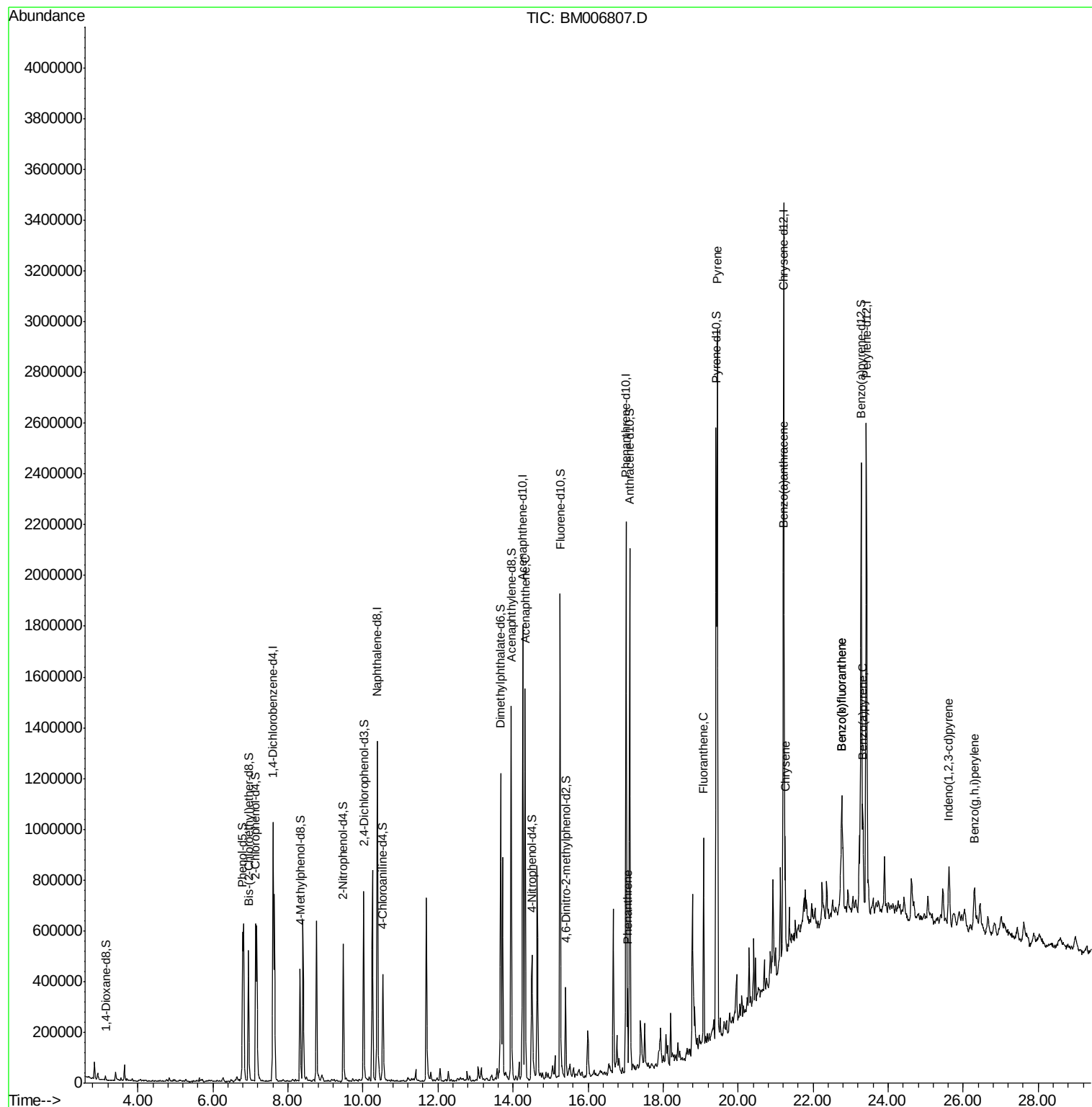
|                            |       |     |         |       |       | Ovalue |
|----------------------------|-------|-----|---------|-------|-------|--------|
| 19) Acenaphthene           | 14.32 | 153 | 634436  | 14.97 | ng/ul | 95     |
| 25) Phenanthrene           | 17.06 | 178 | 200329  | 2.69  | ng/ul | 99     |
| 28) Fluoranthene           | 19.08 | 202 | 461699  | 5.27  | ng/ul | 97     |
| 31) Pyrene                 | 19.44 | 202 | 1719489 | 20.61 | ng/ul | 97     |
| 32) Benzo(a)anthracene     | 21.20 | 228 | 256424  | 3.07  | ng/ul | 98     |
| 33) Chrysene               | 21.25 | 228 | 264320  | 3.43  | ng/ul | 95     |
| 35) Benzo(b)fluoranthene   | 22.76 | 252 | 402981  | 4.62  | ng/ul | 98     |
| 36) Benzo(k)fluoranthene   | 22.76 | 252 | 402981  | 4.78  | ng/ul | 97     |
| 38) Benzo(a)pyrene         | 23.33 | 252 | 265653  | 3.13  | ng/ul | 96     |
| 39) Indeno(1,2,3-cd)pyrene | 25.63 | 276 | 214826  | 2.19  | ng/ul | 98     |
| 41) Benzo(g,h,i)perylene   | 26.31 | 276 | 217169  | 2.58  | ng/ul | 96     |

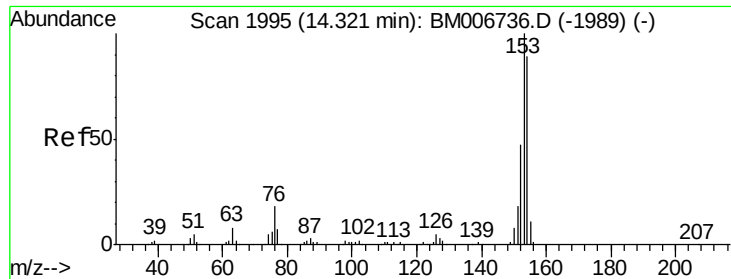
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Sat Jul 30 01:37:26 2016  
Response via : Initial Calibration





#19

Acenaphthene

Concen: 14.97 ng/ul

RT: 14.32 min Scan# 1995

Delta R.T. -0.00 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

Instrument :

BNA\_M

ClientSampled :

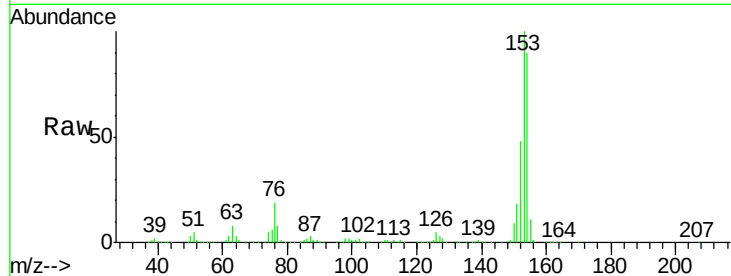
Tot Ion:153 Resp: 634436

Ion Ratio Lower Upper

153 100

152 48.2 36.5 54.7

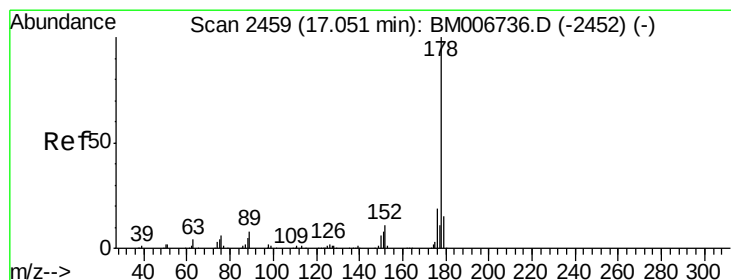
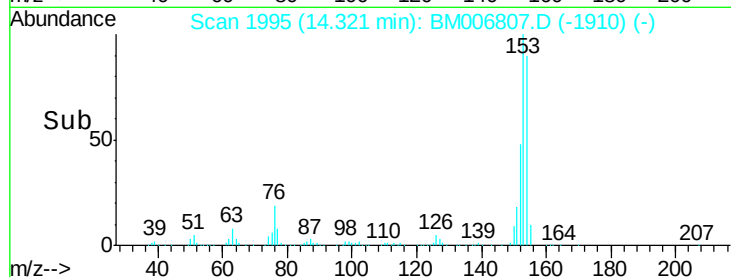
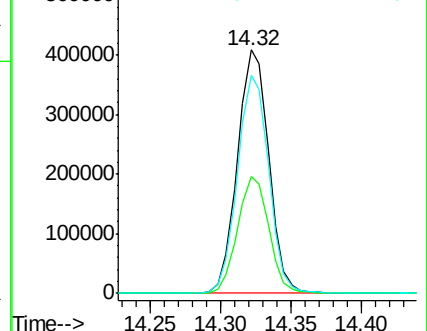
154 89.8 67.3 100.9



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#25

Phenanthrene

Concen: 2.69 ng/ul

RT: 17.06 min Scan# 2460

Delta R.T. 0.01 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

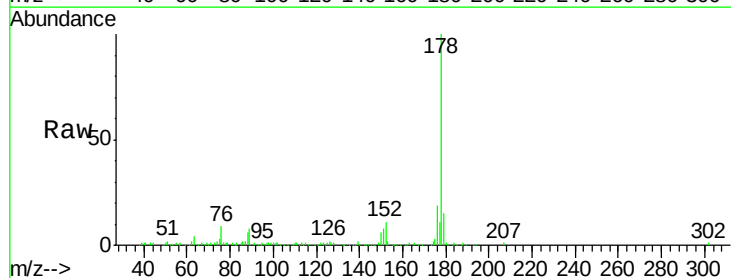
Tgt Ion:178 Resp: 200329

Ion Ratio Lower Upper

178 100

179 14.8 11.8 17.8

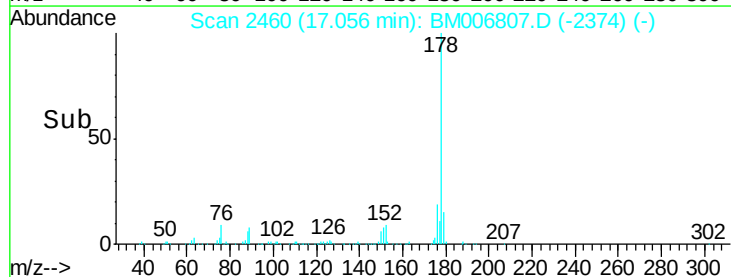
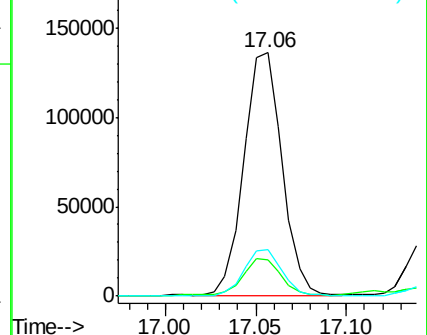
176 19.2 14.8 22.2

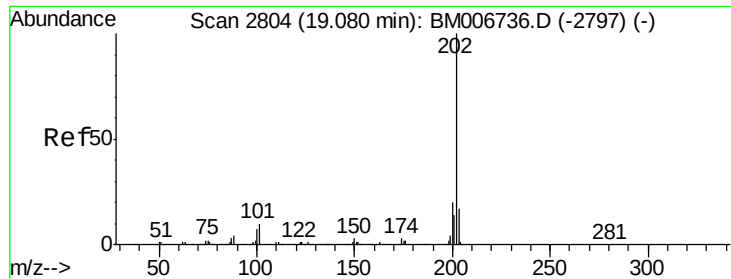


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#28

Fluoranthene

Concen: 5.27 ng/ul

RT: 19.08 min Scan# 2804

Delta R.T. -0.00 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

Instrument :

BNA\_M

ClientSampleId :

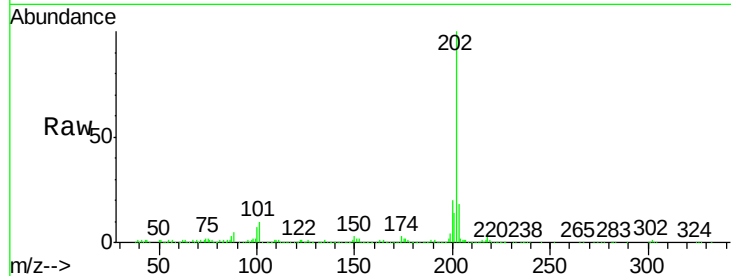
Tot Ion:202 Resp: 461699

Ion Ratio Lower Upper

202 100

101 10.3 8.9 13.3

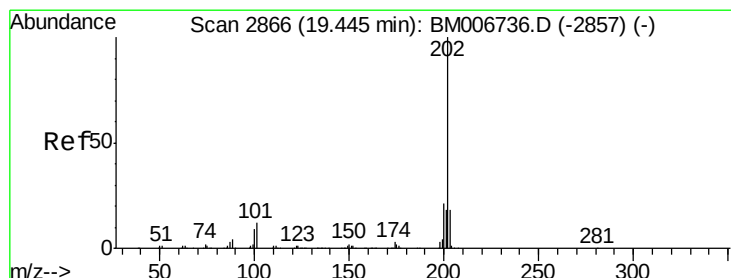
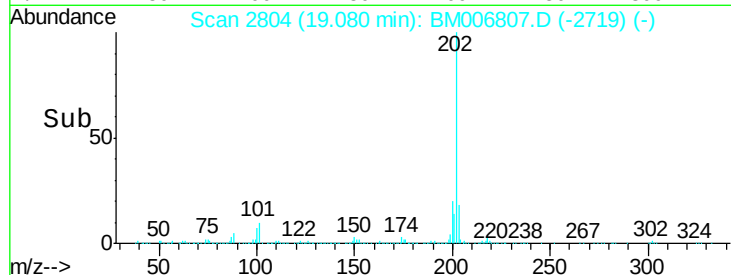
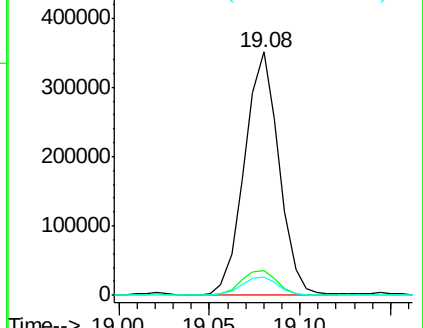
100 7.4 7.0 10.4



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: 20.61 ng/ul

RT: 19.44 min Scan# 2866

Delta R.T. -0.00 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

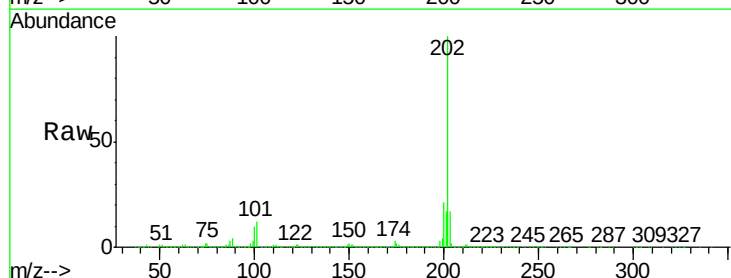
Tgt Ion:202 Resp: 1719489

Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.8

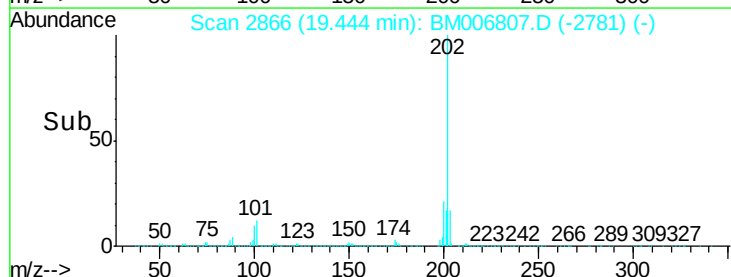
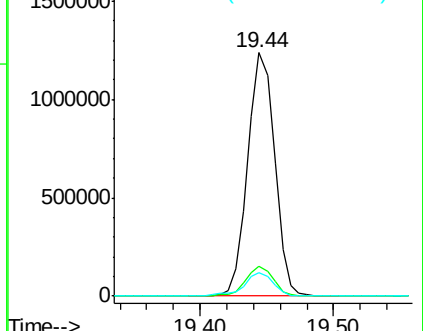
100 9.7 9.3 13.9

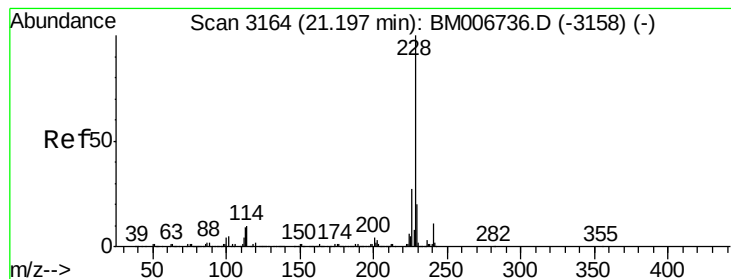


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#32

Benzo(a)anthracene

Concen: 3.07 ng/ul

RT: 21.20 min Scan# 3164

Delta R.T. -0.00 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

Instrument :

BNA\_M

ClientSampled :

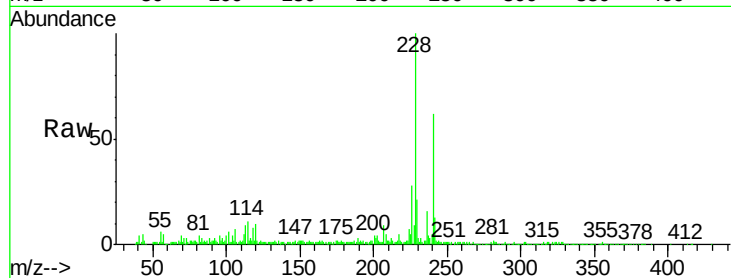
Tot Ion:228 Resp: 256424

Ion Ratio Lower Upper

228 100

229 21.3 16.6 25.0

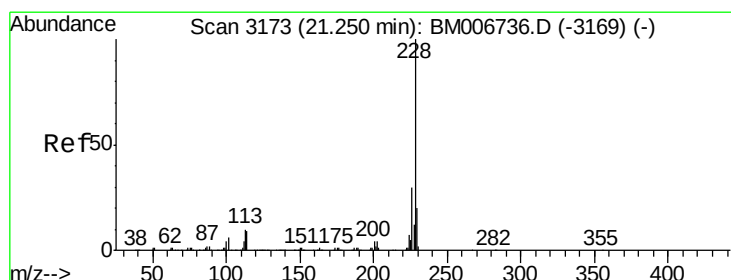
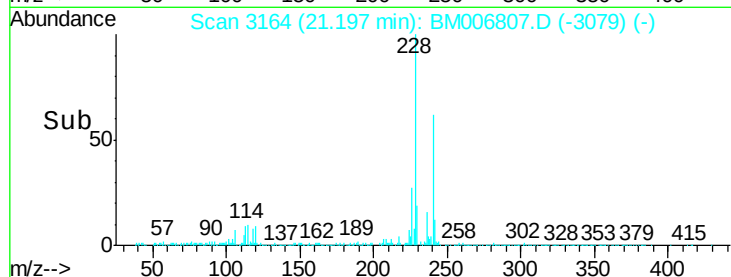
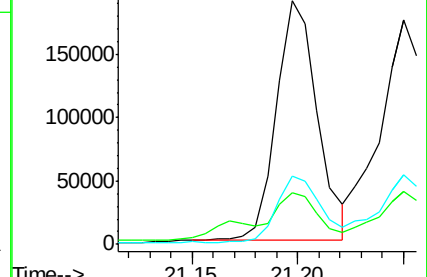
226 28.0 21.0 31.4



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: 3.43 ng/ul

RT: 21.25 min Scan# 3173

Delta R.T. -0.00 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

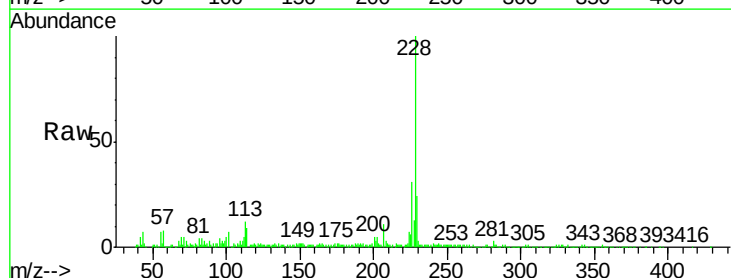
Tgt Ion:228 Resp: 264320

Ion Ratio Lower Upper

228 100

226 31.1 23.4 35.2

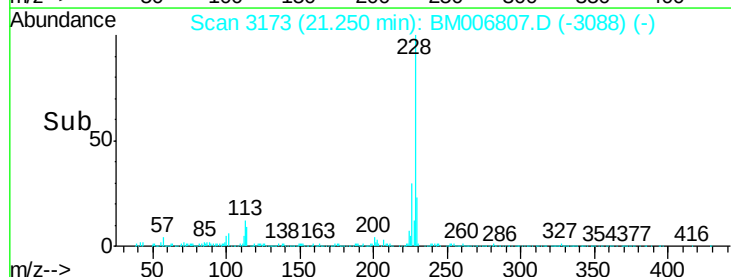
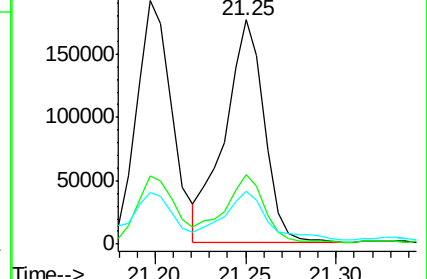
229 23.7 16.2 24.2

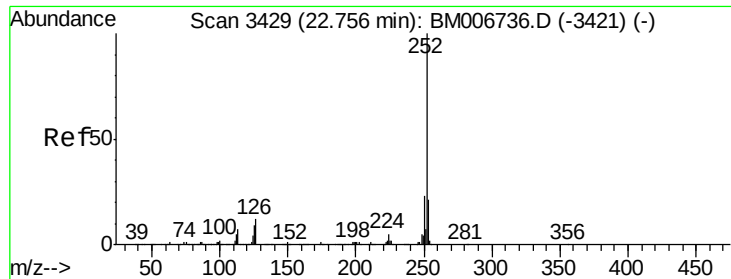


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

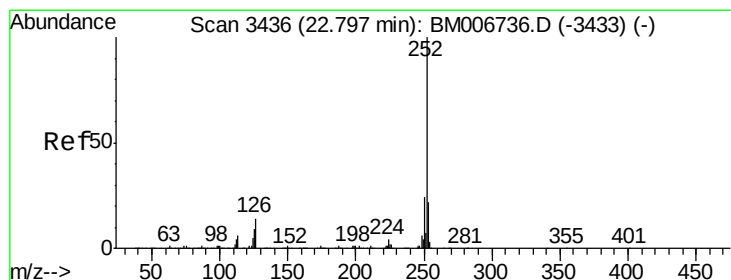
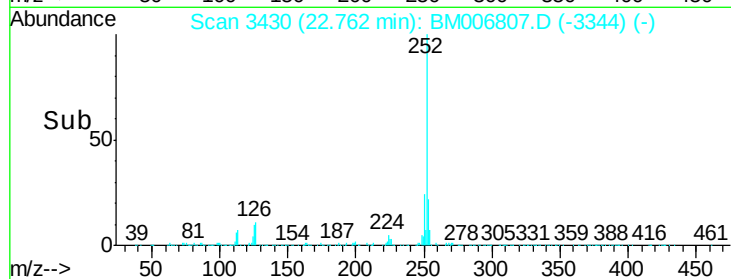
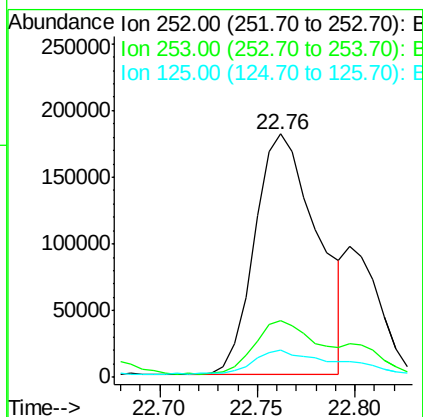
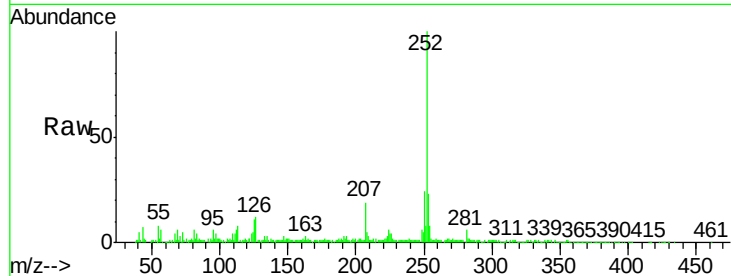




#35  
Benzo(b)fluoranthene  
Concen: 4.62 ng/ul  
RT: 22.76 min Scan# 3430  
Delta R.T. 0.01 min  
Lab File: BM006807.D  
Acq: 01 Aug 2016 02:33

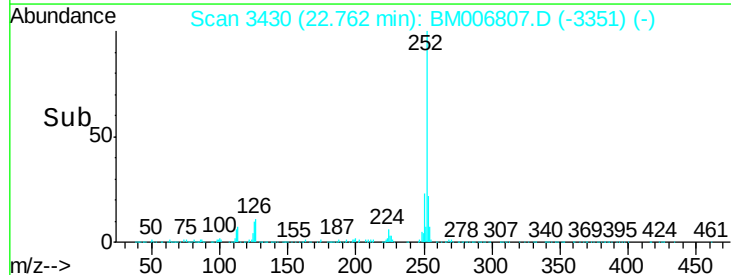
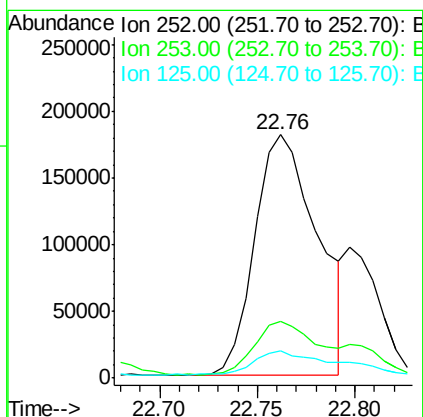
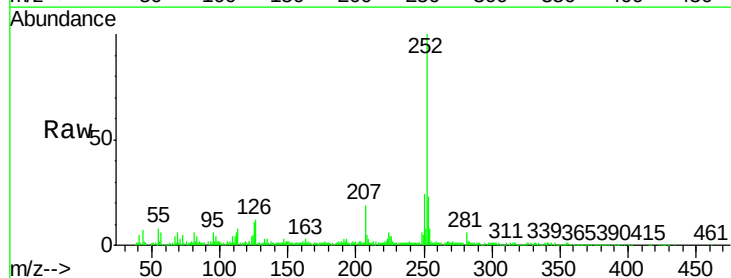
Instrument :  
BNA\_M  
ClientSampled :

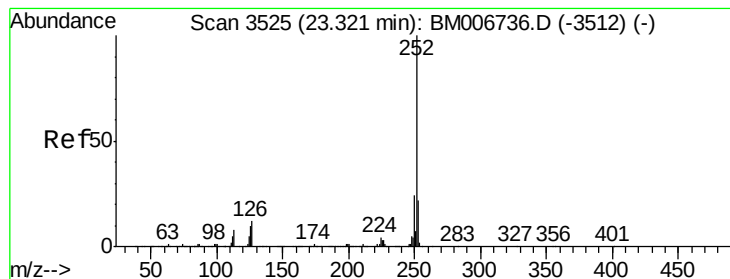
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.1  | 27.1  |
| 125     | 11.4  | 7.6   | 11.4  |



#36  
Benzo(k)fluoranthene  
Concen: 4.78 ng/ul  
RT: 22.76 min Scan# 3430  
Delta R.T. -0.04 min  
Lab File: BM006807.D  
Acq: 01 Aug 2016 02:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.8  | 26.8  |
| 125     | 11.4  | 7.7   | 11.5  |





#38

Benzo(a)pyrene

Concen: 3.13 ng/ul

RT: 23.33 min Scan# 3526

Delta R.T. 0.01 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

Instrument :

BNA\_M

ClientSampleId :

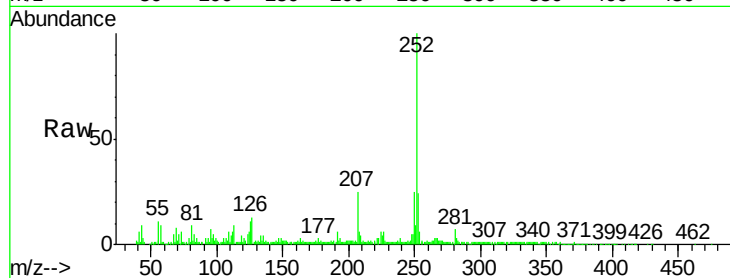
Tot Ion:252 Resp: 265653

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.0

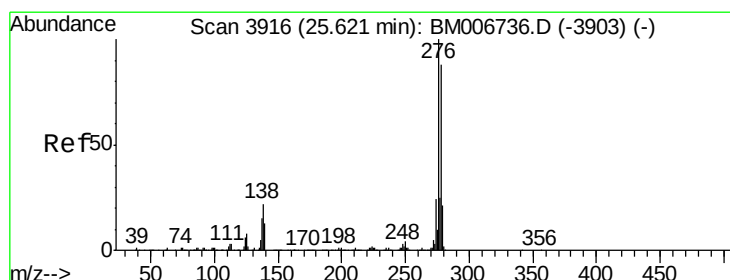
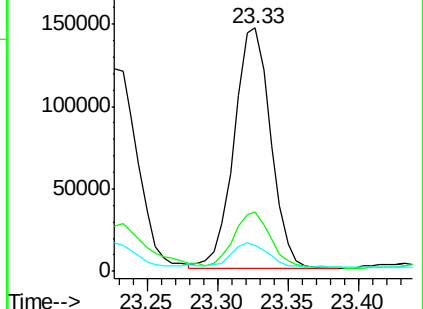
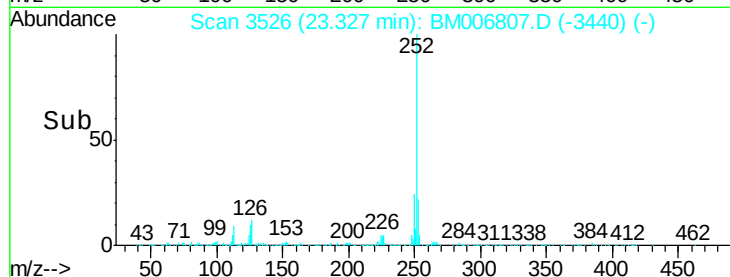
125 10.9 8.2 12.2



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: 2.19 ng/ul

RT: 25.63 min Scan# 3917

Delta R.T. 0.01 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

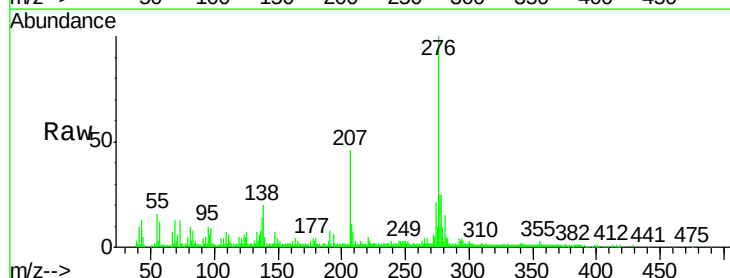
Tgt Ion:276 Resp: 214826

Ion Ratio Lower Upper

276 100

138 20.2 15.8 23.6

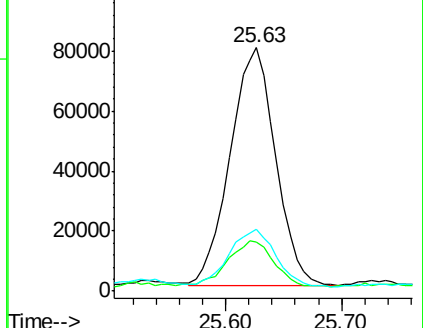
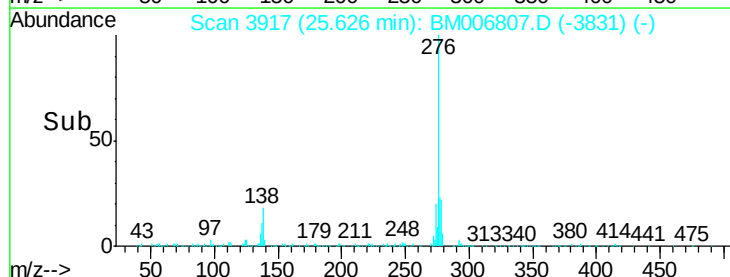
277 25.4 19.0 28.6

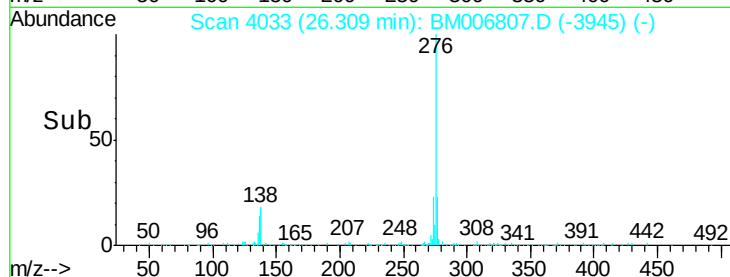
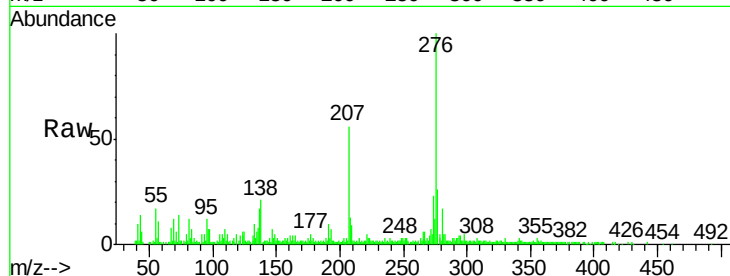
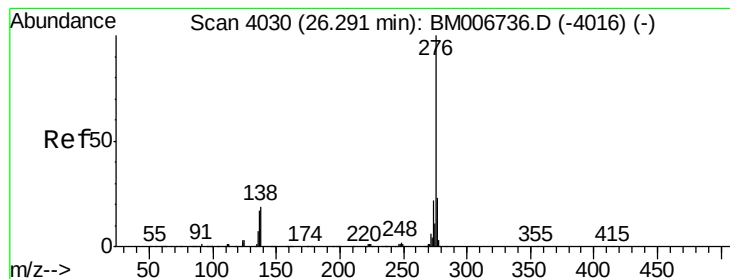


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#41

Benzo(a,h,i)perylene

Concen: 2.58 ng/ul

RT: 26.31 min Scan# 4033

Delta R.T. 0.02 min

Lab File: BM006807.D

Acq: 01 Aug 2016 02:33

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:276 Resp: 217169

Ion Ratio Lower Upper

276 100

138 20.5 13.9 20.9

277 25.5 19.8 29.6

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

