

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061816\  
 Data File : BM005857.D  
 Acq On : 17 Jun 2016 12:22  
 Operator : UM/SJ  
 Sample : H3535-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9YA9

Quant Time: Jun 17 13:10:48 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061716.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 17 10:48:37 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 24165    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.52 | 136  | 108818   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.37 | 164  | 67209    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.12 | 188  | 152647   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.31 | 240  | 148920   | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.56 | 264  | 123825   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 491    | 2.63  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.92  | 99  | 42356  | 20.94 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.06  | 67  | 23533  | 22.44 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.26  | 132 | 38776  | 22.98 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.45  | 113 | 39297  | 21.73 | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.89  | 128 | 19717  | 25.67 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.61  | 143 | 24235  | 25.82 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 44614  | 24.07 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.66 | 131 | 38542  | 30.72 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.79 | 166 | 168960 | 26.57 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.07 | 160 | 201648 | 27.53 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.62 | 143 | 21196  | 27.66 | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.37 | 176 | 155837 | 28.76 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.52 | 200 | 20843  | 20.23 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.22 | 188 | 254557 | 31.94 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.52 | 212 | 285133 | 40.39 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.41 | 264 | 207081 | 33.45 | ng/ul | 0.00 |

## Target Compounds

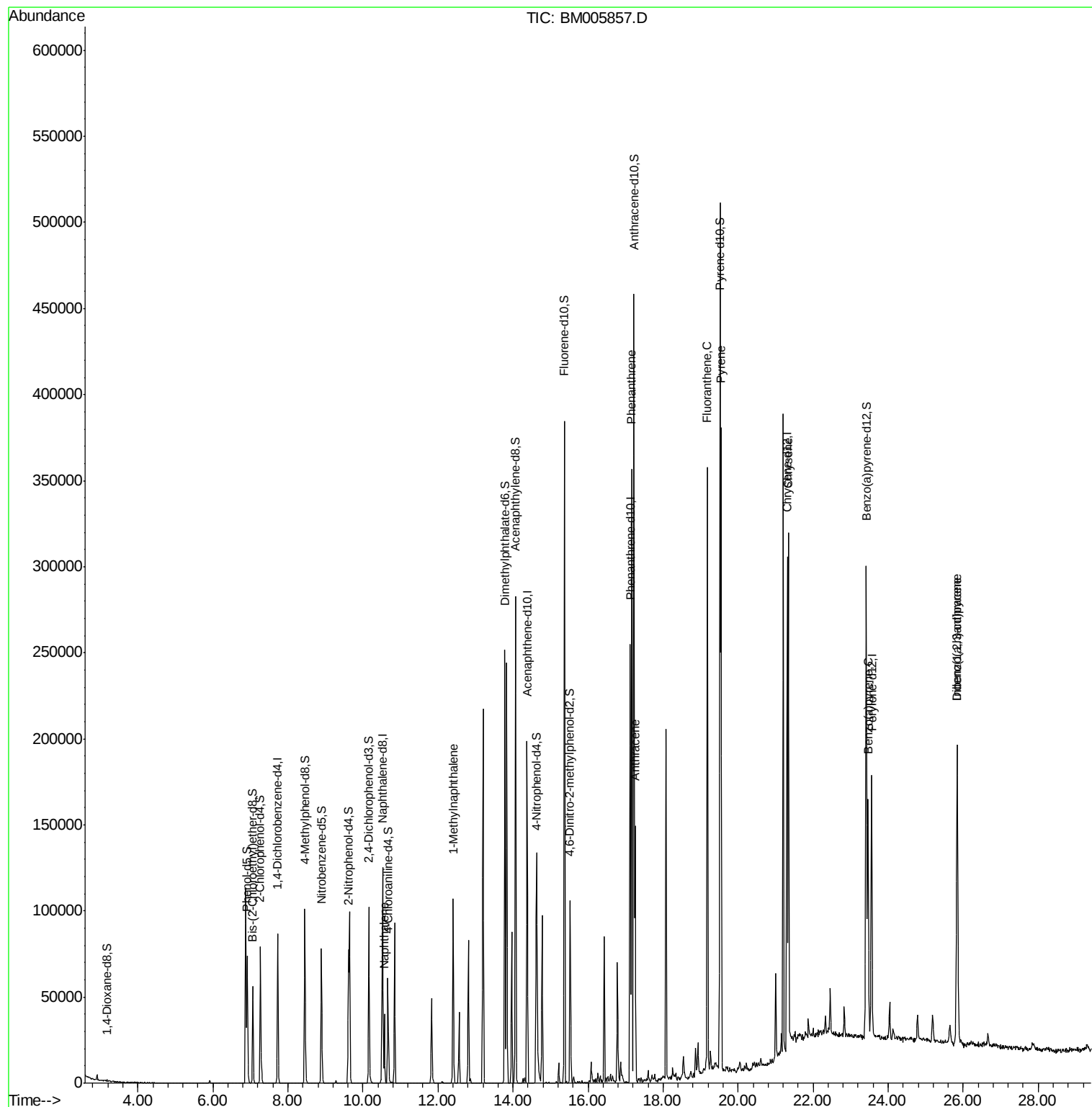
|                            |       |     |        |       |       | Qvalue |
|----------------------------|-------|-----|--------|-------|-------|--------|
| 11) Naphthalene            | 10.57 | 128 | 34625  | 5.94  | ng/ul | 99     |
| 14) 1-Methylnaphthalene    | 12.40 | 142 | 50844  | 10.99 | ng/ul | 98     |
| 25) Phenanthrene           | 17.16 | 178 | 219981 | 24.21 | ng/ul | 99     |
| 27) Anthracene             | 17.26 | 178 | 94515  | 10.17 | ng/ul | 99     |
| 28) Fluoranthene           | 19.18 | 202 | 215822 | 18.90 | ng/ul | 98     |
| 31) Pyrene                 | 19.54 | 202 | 224364 | 25.49 | ng/ul | 99     |
| 33) Chrysene               | 21.34 | 228 | 153262 | 17.11 | ng/ul | 99     |
| 38) Benzo(a)pyrene         | 23.46 | 252 | 110654 | 14.62 | ng/ul | 99     |
| 39) Indeno(1,2,3-cd)pyrene | 25.84 | 276 | 153996 | 16.65 | ng/ul | 97     |
| 40) Dibenzo(a,h)anthracene | 25.84 | 278 | 80397  | 10.57 | ng/ul | 98     |

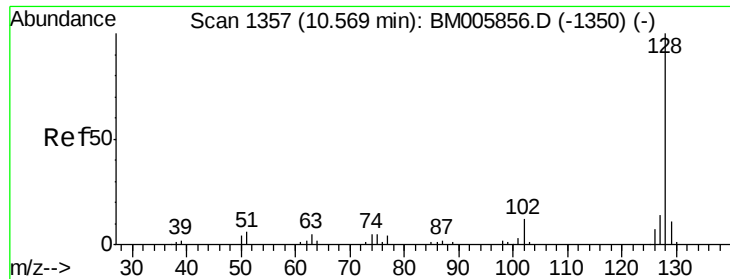
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#11

Naphthalene

Concen: 5.94 ng/ul

RT: 10.57 min Scan# 1357

Delta R.T. -0.00 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

Instrument :

BNA\_M

ClientSampled :

D9YA9

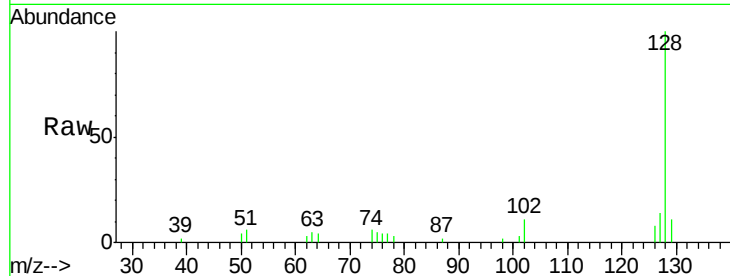
Tgt Ion:128 Resp: 34625

Ion Ratio Lower Upper

128 100

129 10.5 9.0 13.4

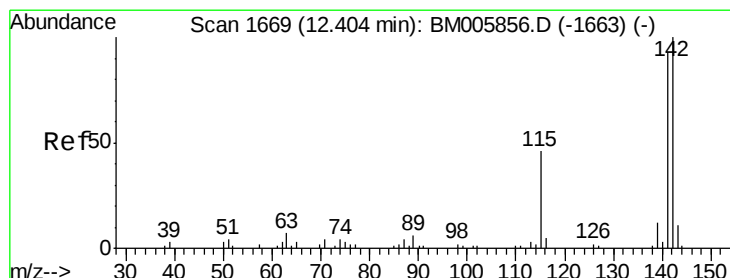
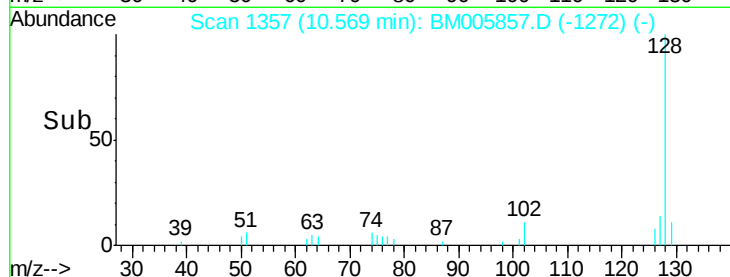
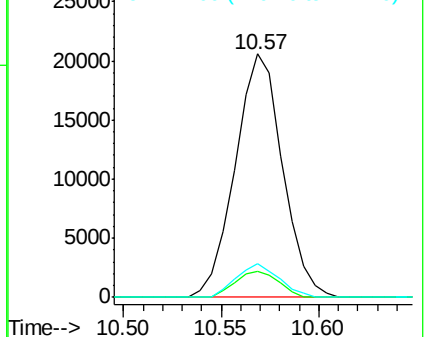
127 13.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#14

1-Methylnaphthalene

Concen: 10.99 ng/ul

RT: 12.40 min Scan# 1669

Delta R.T. -0.00 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

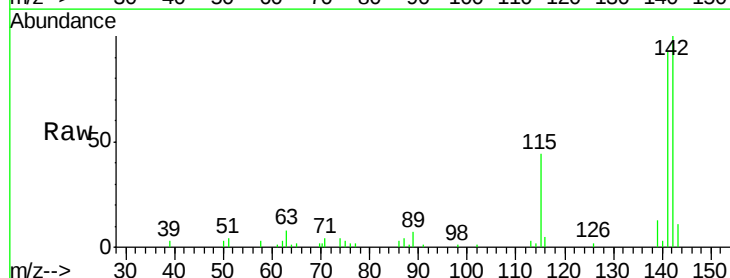
Tgt Ion:142 Resp: 50844

Ion Ratio Lower Upper

142 100

141 92.8 75.4 113.2

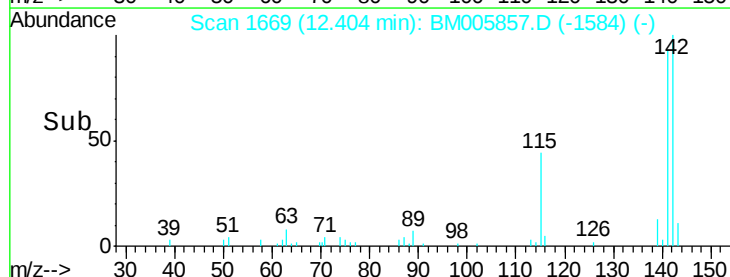
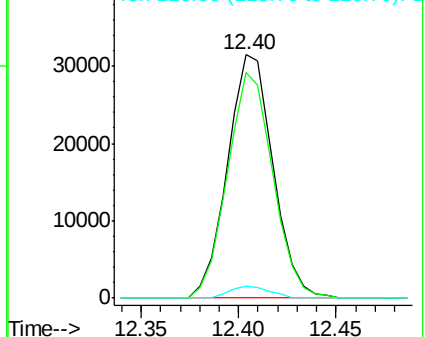
116 5.0 3.7 5.5

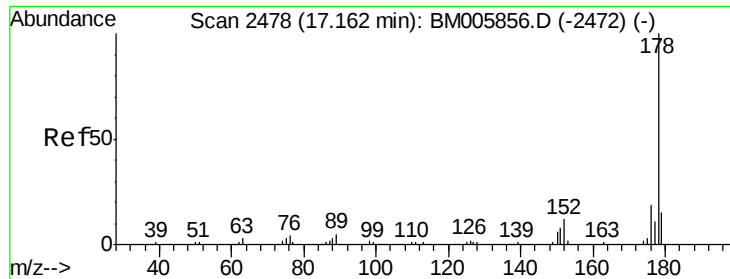


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#25

Phenanthrene

Concen: 24.21 ng/ul

RT: 17.16 min Scan# 2478

Delta R.T. -0.00 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

Instrument :

BNA\_M

ClientSampleId :

D9YA9

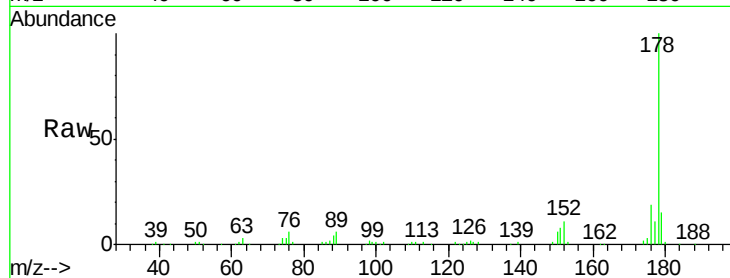
Tgt Ion:178 Resp: 219981

Ion Ratio Lower Upper

178 100

179 15.4 12.0 18.0

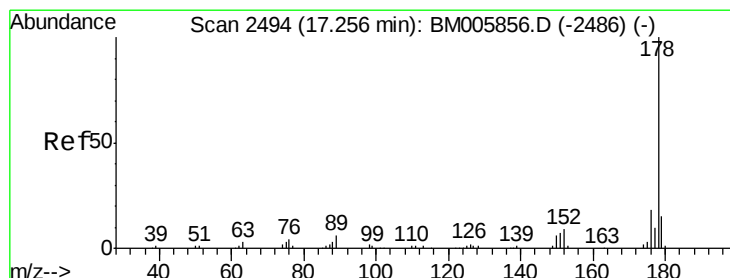
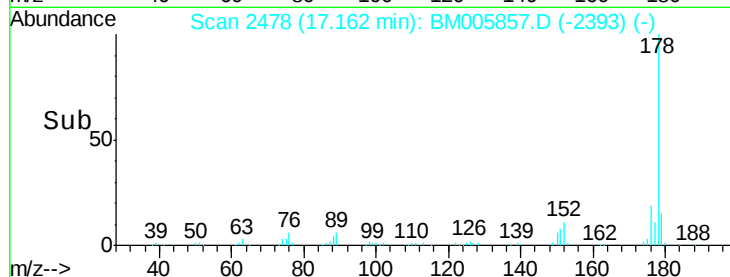
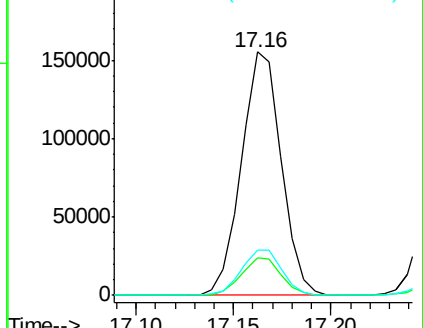
176 18.8 14.9 22.3



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



#27

Anthracene

Concen: 10.17 ng/ul

RT: 17.26 min Scan# 2494

Delta R.T. -0.00 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

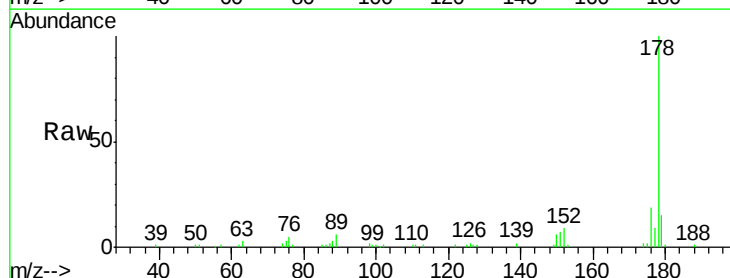
Tgt Ion:178 Resp: 94515

Ion Ratio Lower Upper

178 100

179 15.2 11.9 17.9

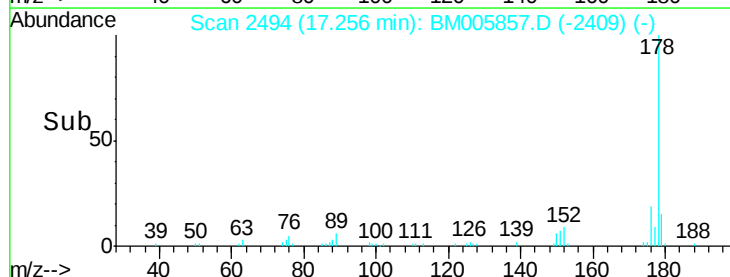
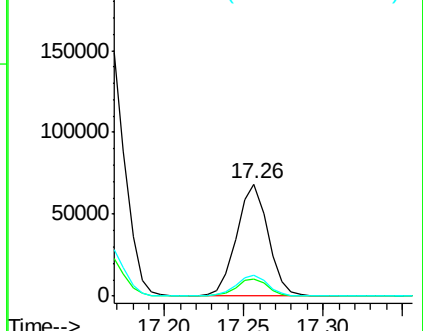
176 18.8 14.8 22.2

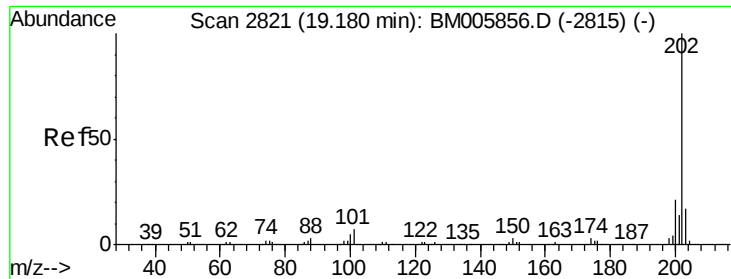


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

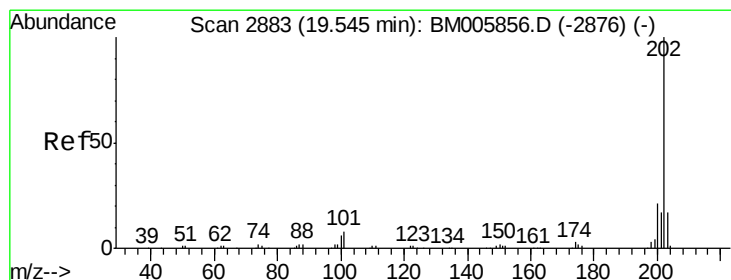
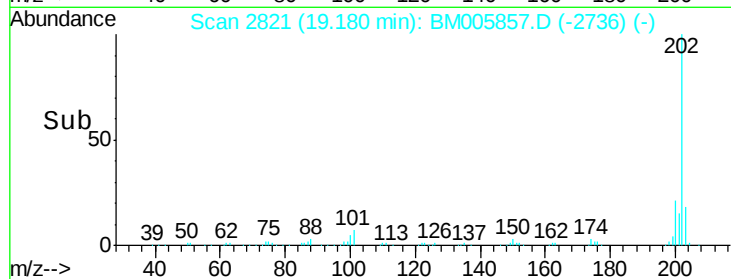
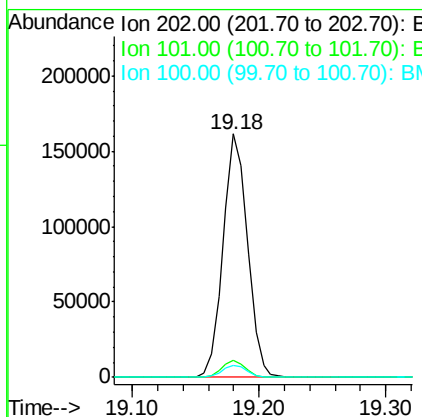
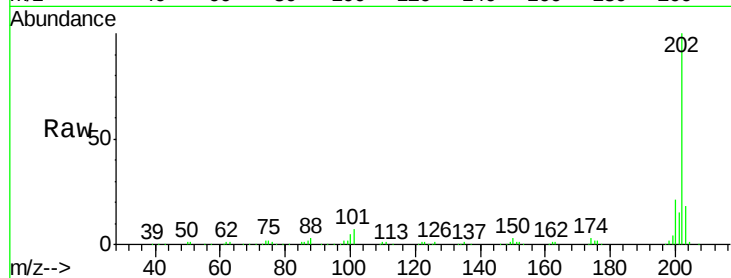




#28  
**Fluoranthene**  
 Concen: 18.90 ng/ul  
 RT: 19.18 min Scan# 2821  
 Delta R.T. -0.00 min  
 Lab File: BM005857.D  
 Acq: 17 Jun 2016 12:22

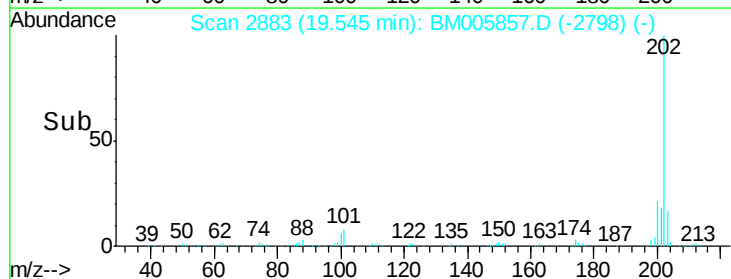
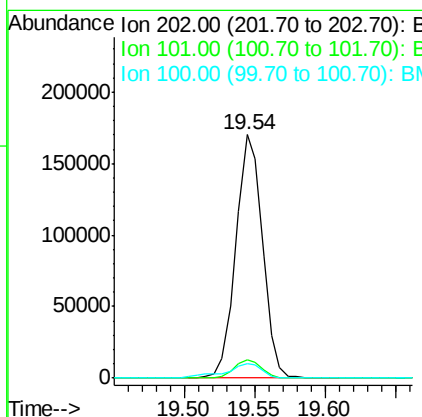
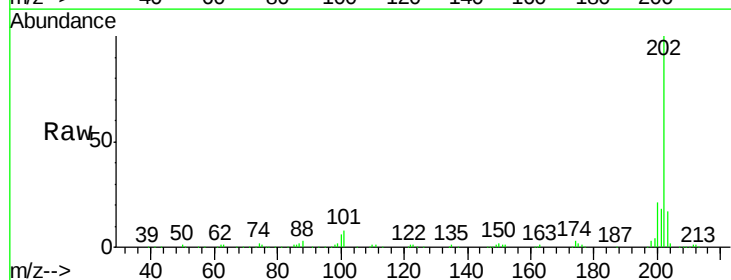
Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9YA9

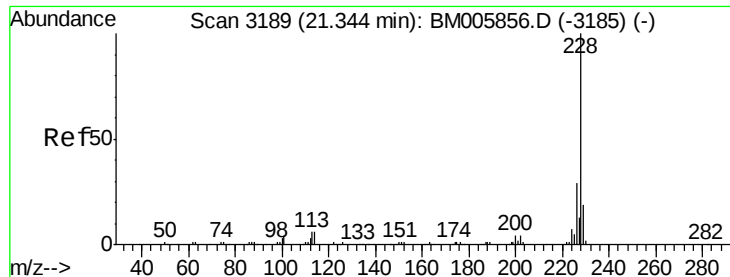
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 215822 |       |       |
| 101     | 6.9   |        | 6.1   | 9.1   |
| 100     | 4.9   |        | 4.2   | 6.2   |



#31  
**Pyrene**  
 Concen: 25.49 ng/ul  
 RT: 19.54 min Scan# 2883  
 Delta R.T. -0.00 min  
 Lab File: BM005857.D  
 Acq: 17 Jun 2016 12:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 224364 |       |       |
| 101     | 7.7   |        | 6.5   | 9.7   |
| 100     | 6.2   |        | 5.4   | 8.2   |





#33

Chrysene

Concen: 17.11 ng/u1

RT: 21.34 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

Instrument :

BNA\_M

ClientSampleId :

D9YA9

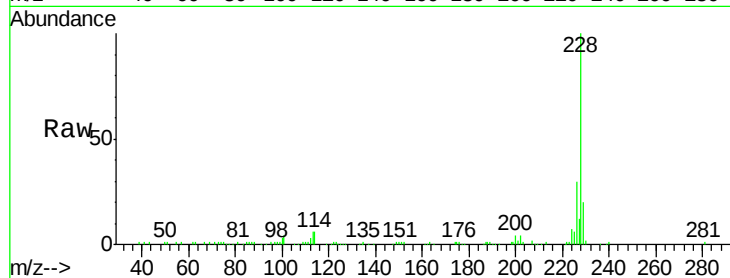
Tgt Ion:228 Resp: 153262

Ion Ratio Lower Upper

228 100

226 30.2 23.5 35.3

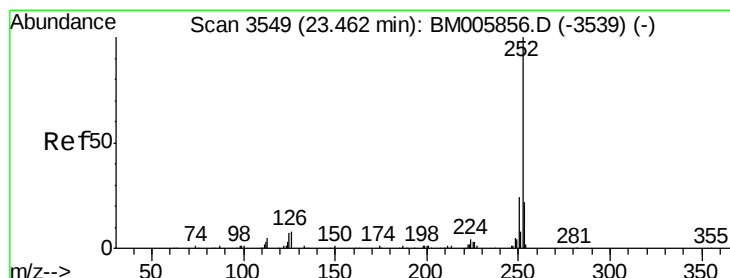
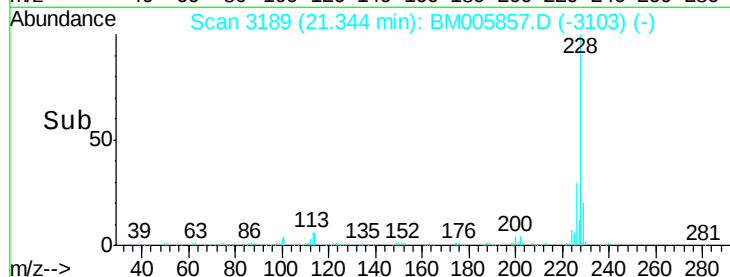
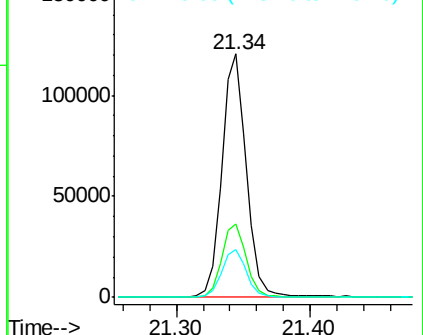
229 19.5 15.4 23.0



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



#38

Benzo(a)pyrene

Concen: 14.62 ng/u1

RT: 23.46 min Scan# 3549

Delta R.T. 0.01 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

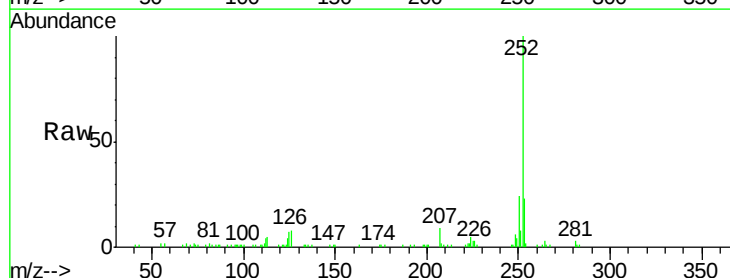
Tgt Ion:252 Resp: 110654

Ion Ratio Lower Upper

252 100

253 22.7 18.0 27.0

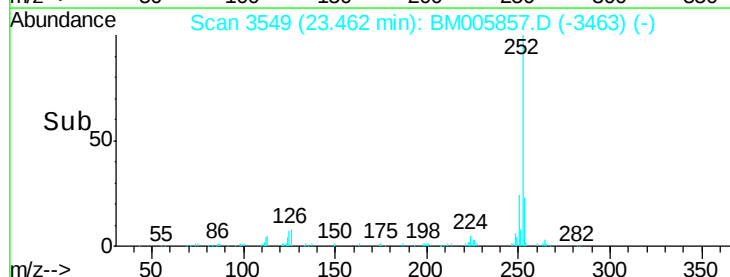
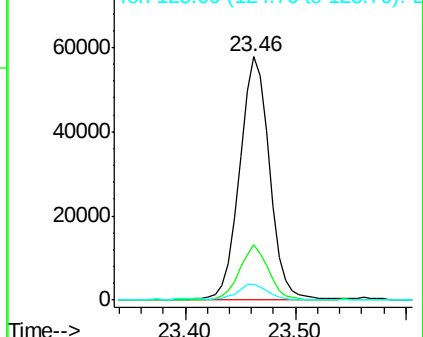
125 6.7 5.1 7.7

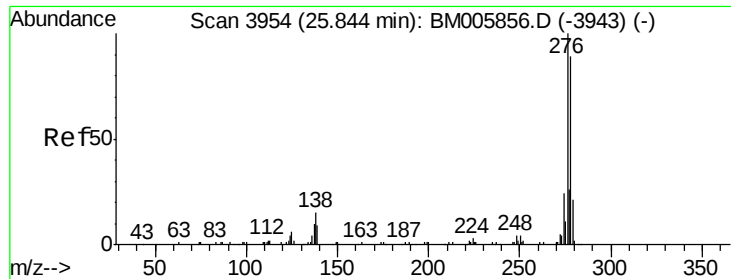


Abundance Ion 252.00 (251.70 to 252.70): E

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: 16.65 ng/ul

RT: 25.84 min Scan# 3953

Delta R.T. -0.00 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

Instrument :

BNA\_M

ClientSampleId :

D9YA9

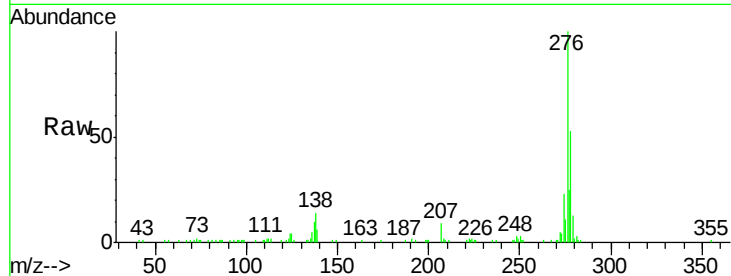
Tgt Ion:276 Resp: 153996

Ion Ratio Lower Upper

276 100

138 14.3 11.9 17.9

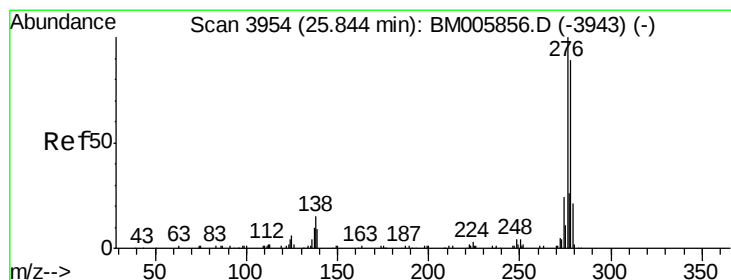
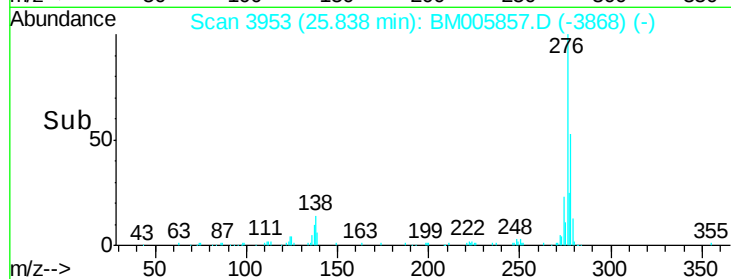
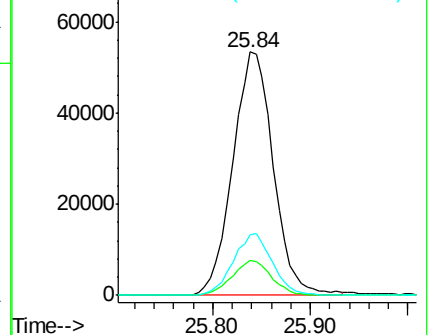
277 24.7 21.0 31.6



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



#40

Dibenzo(a,h)anthracene

Concen: 10.57 ng/ul

RT: 25.84 min Scan# 3953

Delta R.T. -0.01 min

Lab File: BM005857.D

Acq: 17 Jun 2016 12:22

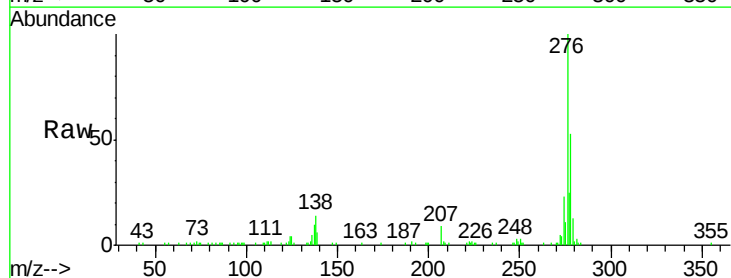
Tgt Ion:278 Resp: 80397

Ion Ratio Lower Upper

278 100

139 11.2 8.2 12.4

279 23.8 18.6 27.8



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

