

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062516\  
 Data File : BM005994.D  
 Acq On : 25 Jun 2016 10:50  
 Operator : UM/SJ  
 Sample : SSTD01060  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD01060

Quant Time: Jun 26 04:21:41 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jun 26 04:20:44 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 126001   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.44 | 136  | 621136   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.30 | 164  | 424837   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.05 | 188  | 1149126  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.24 | 240  | 1519529  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.46 | 264  | 1724091  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.18  | 96  | 11420  | 3.77  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.83  | 99  | 120301 | 9.08  | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.99  | 67  | 76078  | 10.32 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.19  | 132 | 88990  | 9.64  | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.36  | 113 | 101121 | 9.04  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.81  | 128 | 46827  | 9.90  | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.53  | 143 | 50066  | 9.51  | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.06 | 165 | 98464  | 9.75  | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.57 | 131 | 132784 | 12.12 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.72 | 166 | 378137 | 10.40 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.99 | 160 | 435461 | 10.32 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.50 | 143 | 80802  | 10.41 | ng/ul | 0.00 |
| 21) Fluorene-d10               | 15.30 | 176 | 323959 | 10.43 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 57943  | 9.08  | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.15 | 188 | 555450 | 10.52 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.45 | 212 | 673484 | 10.12 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.32 | 264 | 798973 | 10.26 | ng/ul | 0.00 |

## Target Compounds

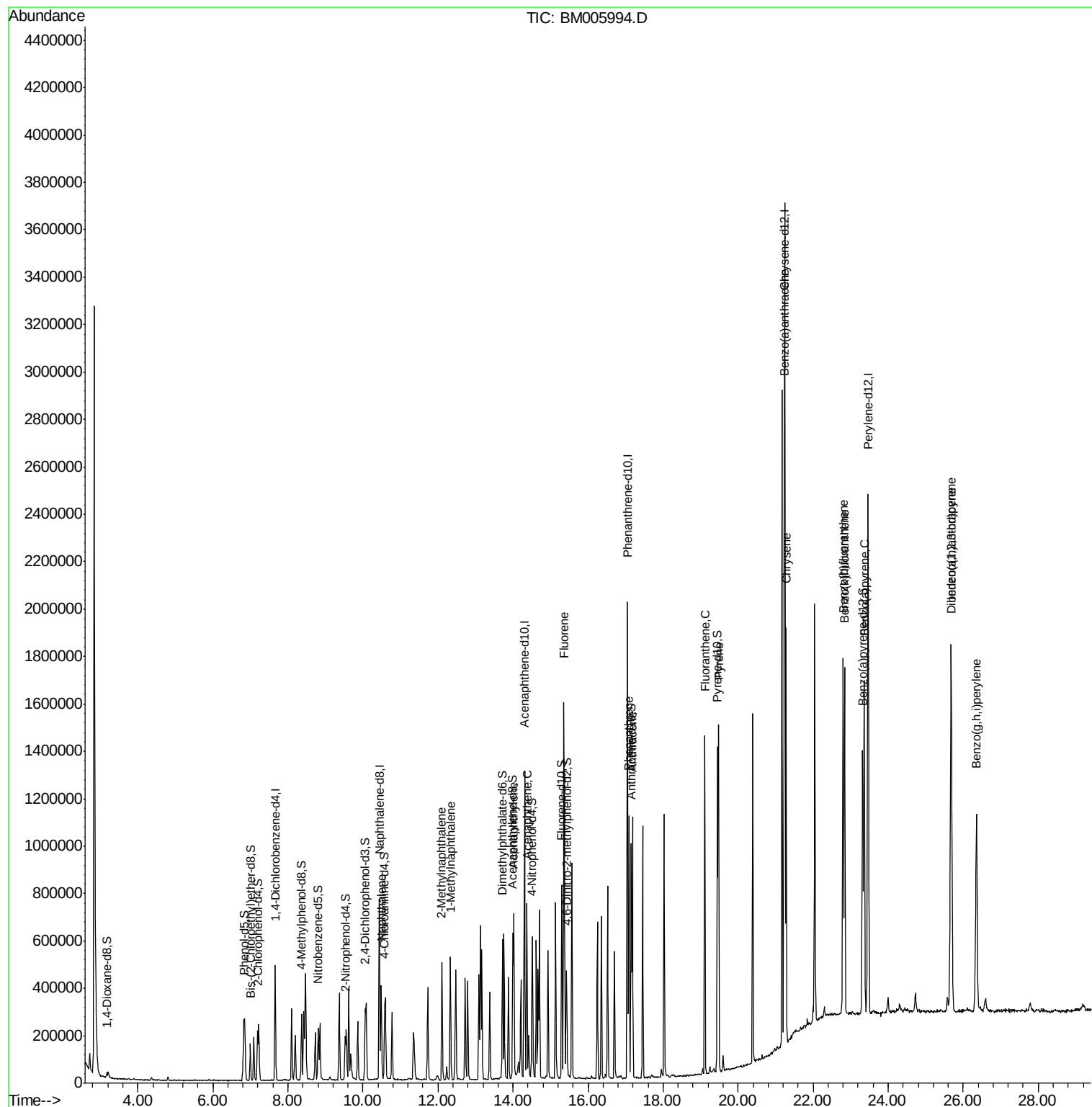
|                            |       |     |         |       | Qvalue    |
|----------------------------|-------|-----|---------|-------|-----------|
| 11) Naphthalene            | 10.49 | 128 | 318516  | 10.26 | ng/ul 98  |
| 13) 2-Methylnaphthalene    | 12.11 | 142 | 248663  | 9.96  | ng/ul 97  |
| 14) 1-Methylnaphthalene    | 12.33 | 142 | 239658  | 10.02 | ng/ul 97  |
| 18) Acenaphthylene         | 14.02 | 152 | 462333  | 10.40 | ng/ul 100 |
| 19) Acenaphthene           | 14.37 | 153 | 293647  | 10.39 | ng/ul 99  |
| 22) Fluorene               | 15.36 | 166 | 367210  | 10.79 | ng/ul 98  |
| 25) Phenanthrene           | 17.09 | 178 | 649697  | 10.51 | ng/ul 99  |
| 27) Anthracene             | 17.19 | 178 | 677539  | 10.62 | ng/ul 99  |
| 28) Fluoranthene           | 19.12 | 202 | 840286  | 10.61 | ng/ul 98  |
| 31) Pyrene                 | 19.48 | 202 | 892234  | 10.26 | ng/ul 100 |
| 32) Benzo(a)anthracene     | 21.23 | 228 | 945502  | 10.47 | ng/ul 99  |
| 33) Chrysene               | 21.28 | 228 | 861936  | 10.45 | ng/ul 99  |
| 35) Benzo(b)fluoranthene   | 22.80 | 252 | 1062183 | 10.60 | ng/ul 99  |
| 36) Benzo(k)fluoranthene   | 22.84 | 252 | 954269  | 10.24 | ng/ul 98  |
| 38) Benzo(a)pyrene         | 23.36 | 252 | 1009353 | 10.51 | ng/ul 99  |
| 39) Indeno(1,2,3-cd)pyrene | 25.67 | 276 | 1208589 | 10.56 | ng/ul 99  |
| 40) Dibenzo(a,h)anthracene | 25.69 | 278 | 1010137 | 10.61 | ng/ul 99  |
| 41) Benzo(g,h,i)perylene   | 26.36 | 276 | 1015471 | 10.25 | ng/ul 99  |

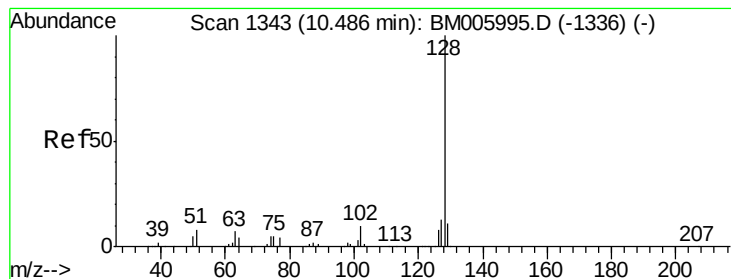
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Sun Jun 26 04:20:44 2016  
Response via : Initial Calibration





#11

Naphthalene

Concen: 10.26 ng/ul

RT: 10.49 min Scan# 1343

Delta R.T. -0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

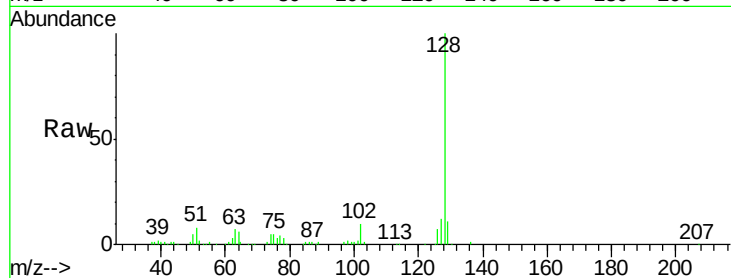
Tgt Ion:128 Resp: 318516

Ion Ratio Lower Upper

128 100

129 10.5 8.6 13.0

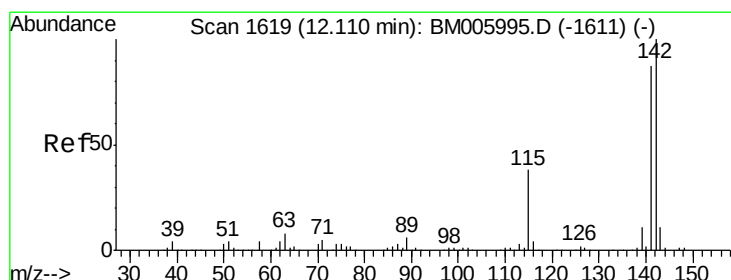
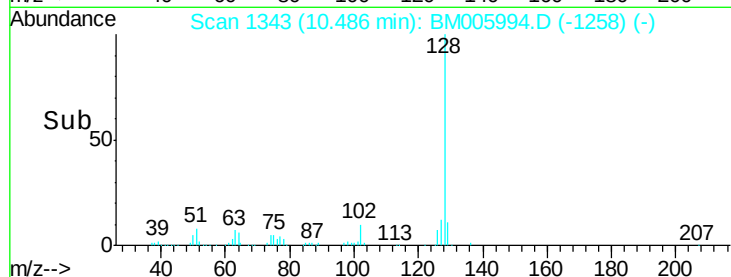
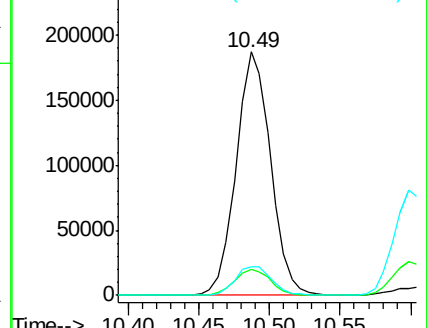
127 12.0 10.2 15.4



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



#13

2-Methylnaphthalene

Concen: 9.96 ng/ul

RT: 12.11 min Scan# 1619

Delta R.T. 0.00 min

Lab File: BM005994.D

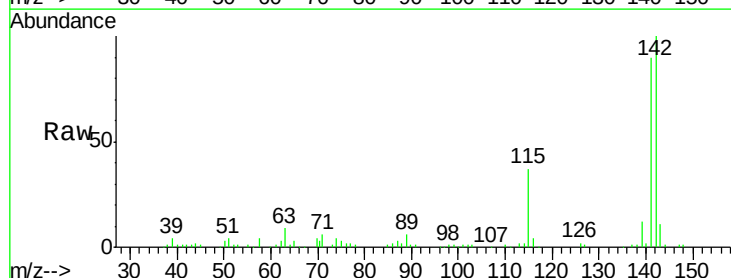
Acq: 25 Jun 2016 10:50

Tgt Ion:142 Resp: 248663

Ion Ratio Lower Upper

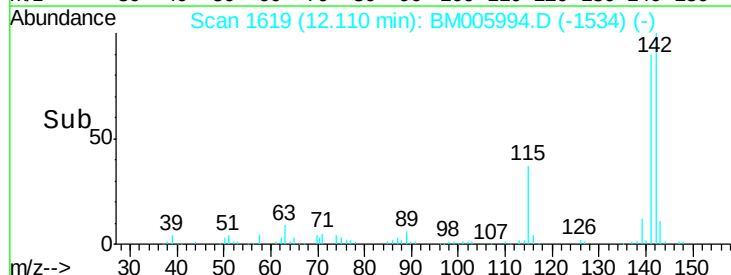
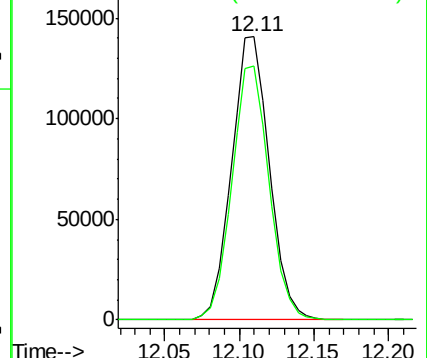
142 100

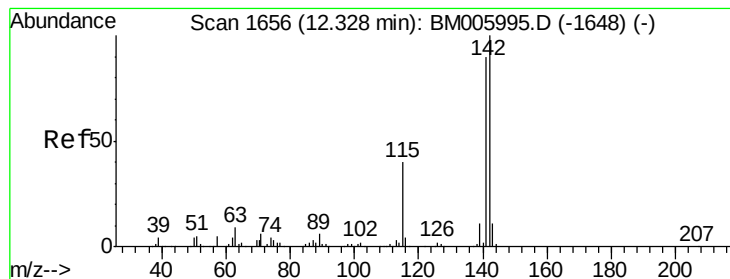
141 89.5 69.4 104.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#14

1-Methylnaphthalene

Concen: 10.02 ng/ul

RT: 12.33 min Scan# 1656

Delta R.T. 0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

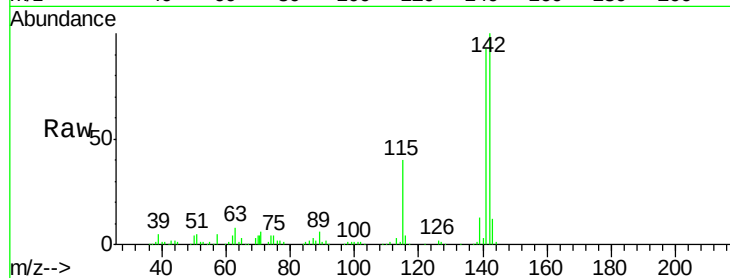
Tgt Ion:142 Resp: 239658

Ion Ratio Lower Upper

142 100

141 92.9 72.3 108.5

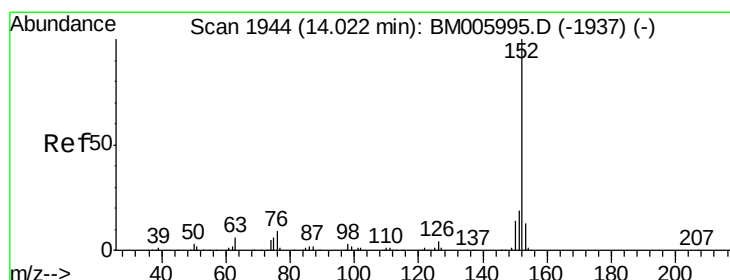
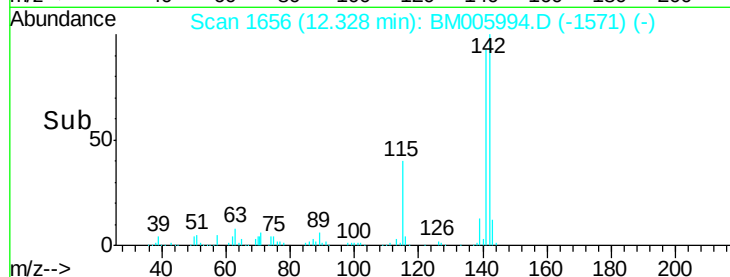
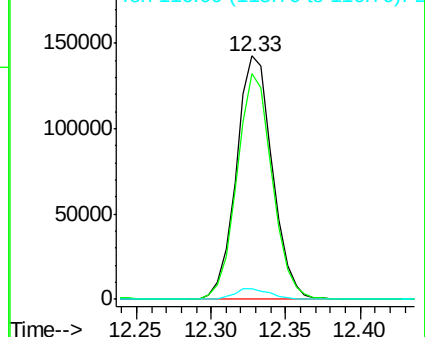
116 4.2 3.4 5.0



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



#18

Acenaphthylene

Concen: 10.40 ng/ul

RT: 14.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

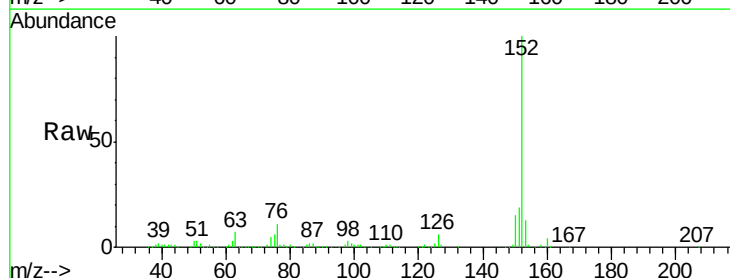
Tgt Ion:152 Resp: 462333

Ion Ratio Lower Upper

152 100

151 19.3 15.5 23.3

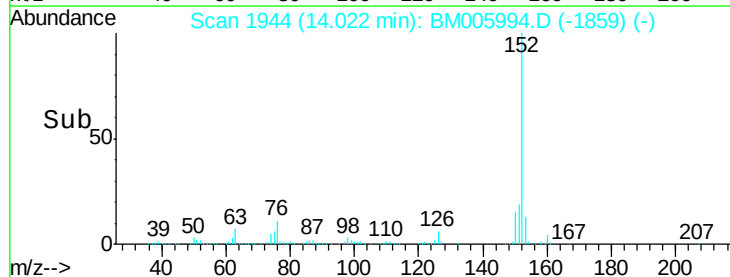
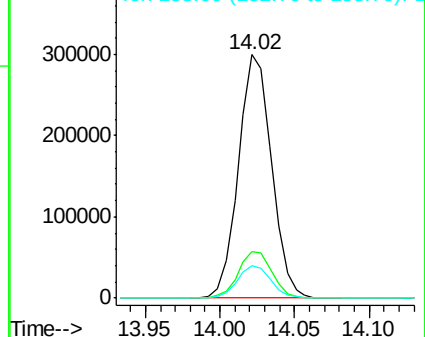
153 13.2 10.5 15.7

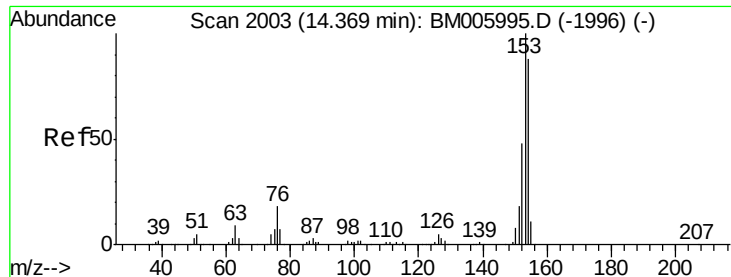


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#19

Acenaphthene

Concen: 10.39 ng/ul

RT: 14.37 min Scan# 2003

Delta R.T. -0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

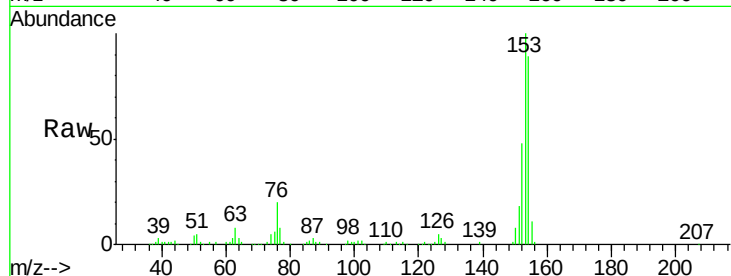
Tgt Ion:153 Resp: 293647

Ion Ratio Lower Upper

153 100

152 48.5 38.6 57.8

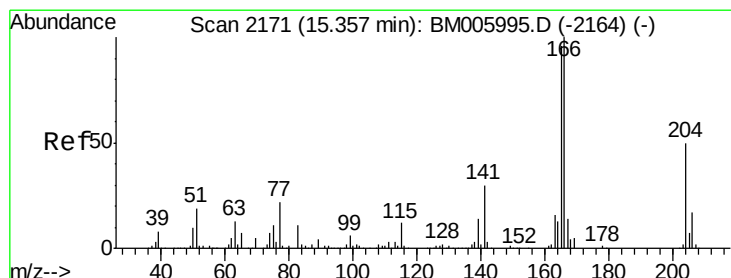
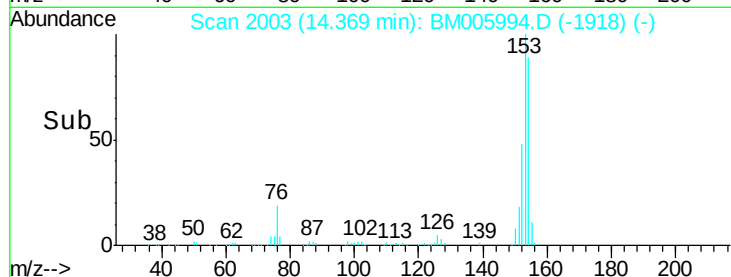
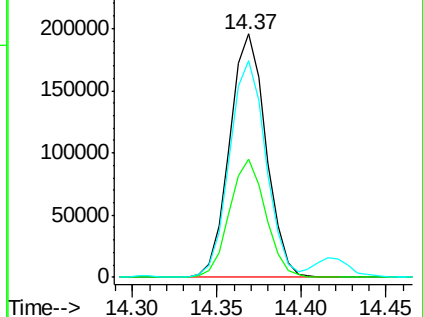
154 89.3 70.7 106.1



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



#22

Fluorene

Concen: 10.79 ng/ul

RT: 15.36 min Scan# 2171

Delta R.T. 0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

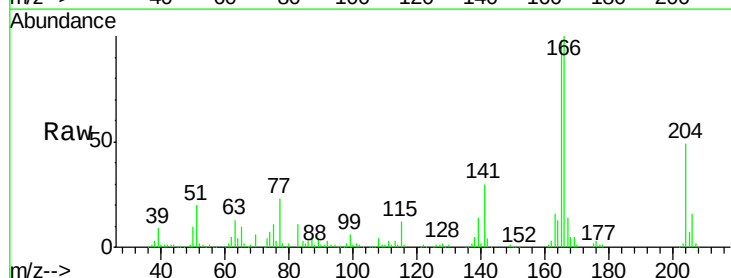
Tgt Ion:166 Resp: 367210

Ion Ratio Lower Upper

166 100

165 98.2 76.8 115.2

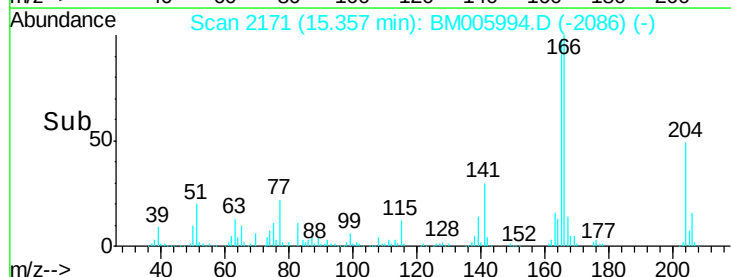
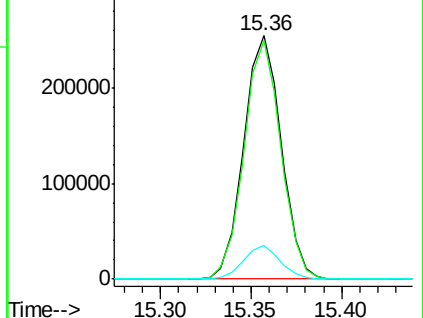
167 13.7 10.8 16.2

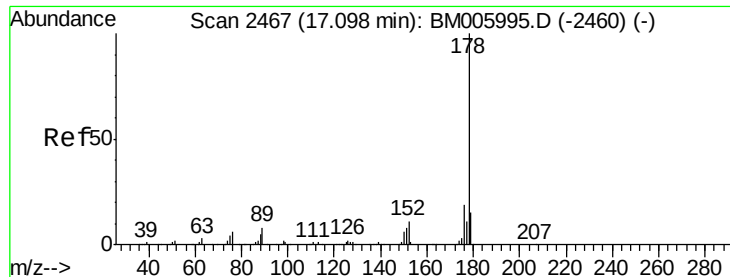


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#25

Phenanthrene

Concen: 10.51 ng/ul

RT: 17.09 min Scan# 2466

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

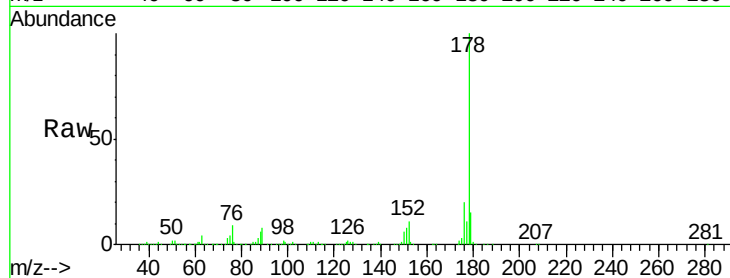
Tgt Ion:178 Resp: 649697

Ion Ratio Lower Upper

178 100

179 15.0 12.1 18.1

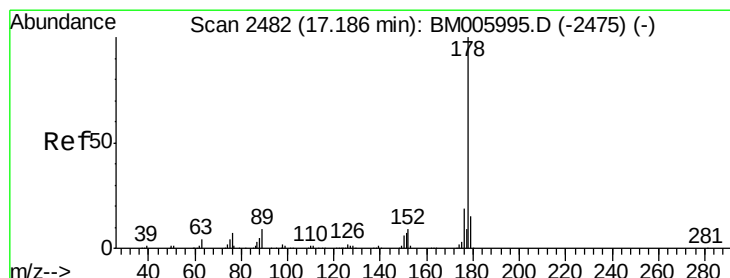
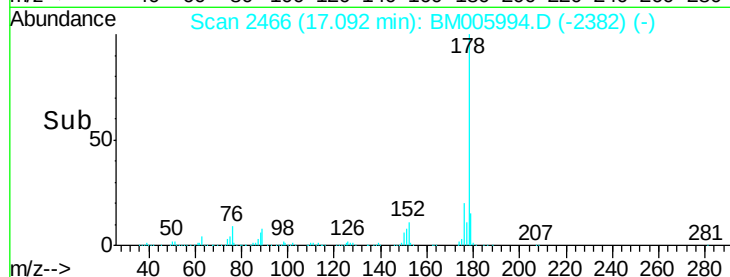
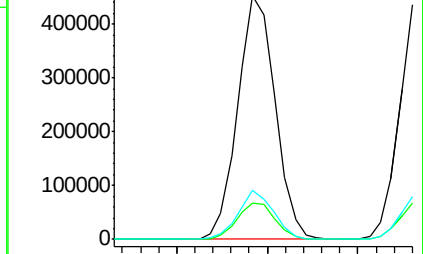
176 19.9 15.4 23.0



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



#27

Anthracene

Concen: 10.62 ng/ul

RT: 17.19 min Scan# 2482

Delta R.T. 0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

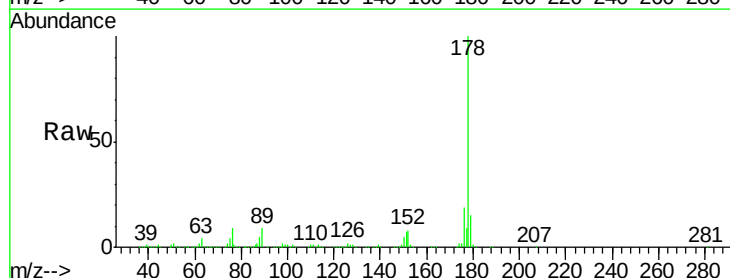
Tgt Ion:178 Resp: 677539

Ion Ratio Lower Upper

178 100

179 15.1 12.2 18.4

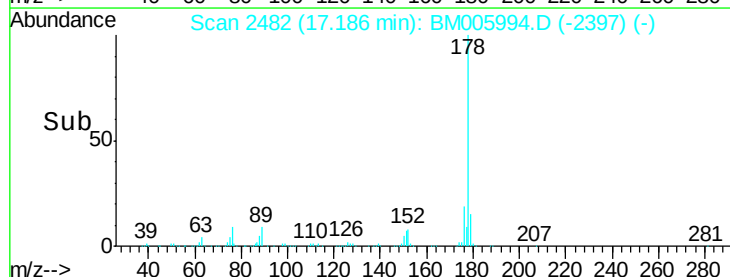
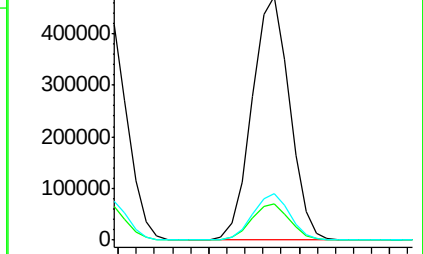
176 19.0 14.9 22.3

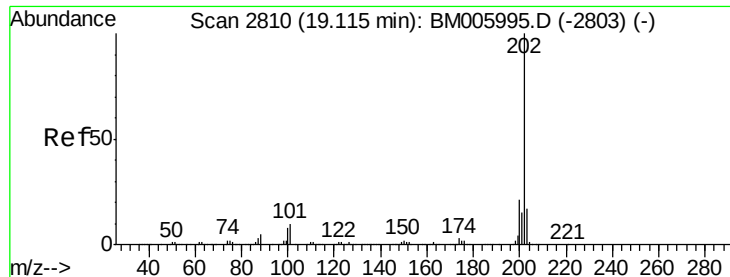


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#28

Fluoranthene

Concen: 10.61 ng/ul

RT: 19.12 min Scan# 2810

Delta R.T. -0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

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ClientSampleId :

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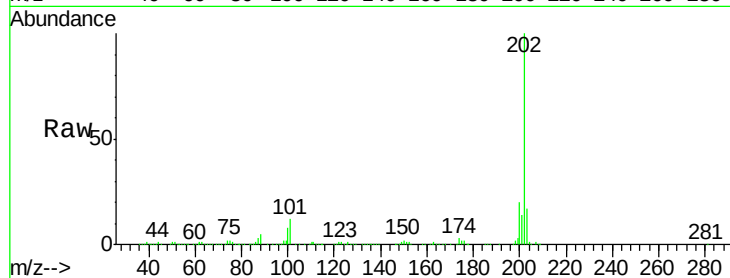
Tgt Ion:202 Resp: 840286

Ion Ratio Lower Upper

202 100

101 11.5 8.2 12.4

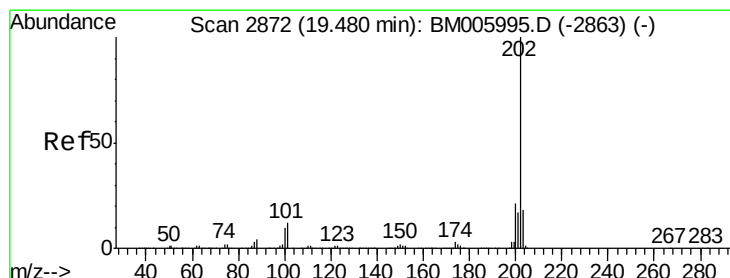
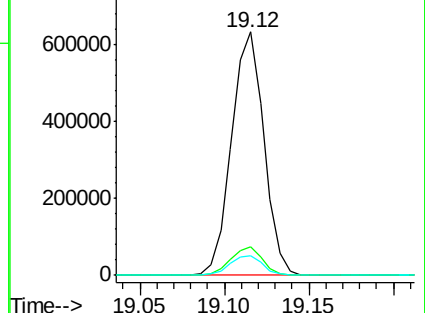
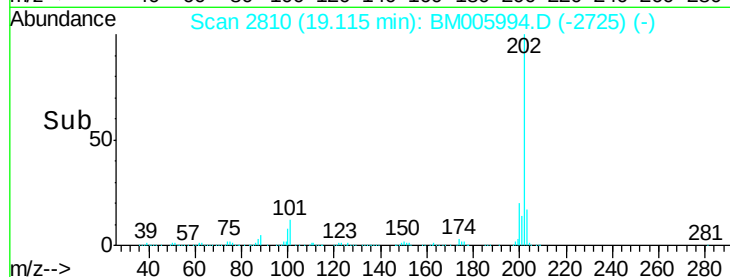
100 7.9 6.3 9.5



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: 10.26 ng/ul

RT: 19.48 min Scan# 2872

Delta R.T. -0.00 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

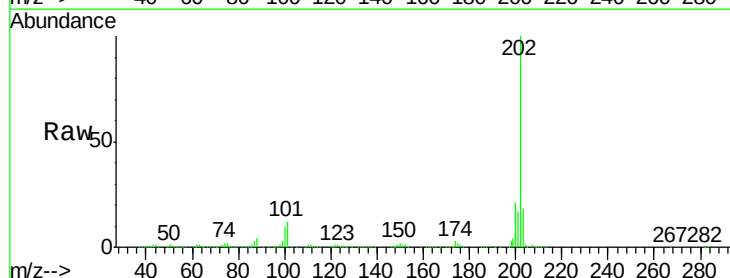
Tgt Ion:202 Resp: 892234

Ion Ratio Lower Upper

202 100

101 12.1 9.8 14.6

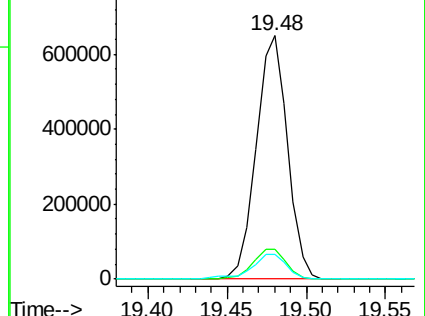
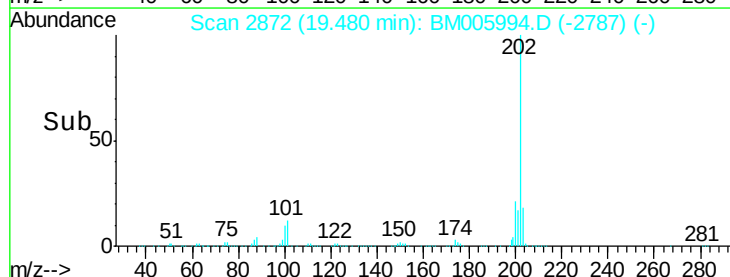
100 10.1 8.2 12.2

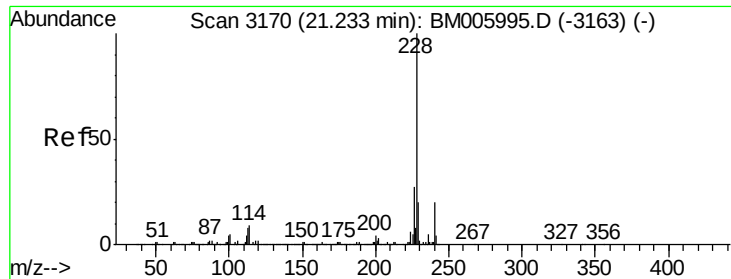


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#32

Benzo(a)anthracene

Concen: 10.47 ng/ul

RT: 21.23 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

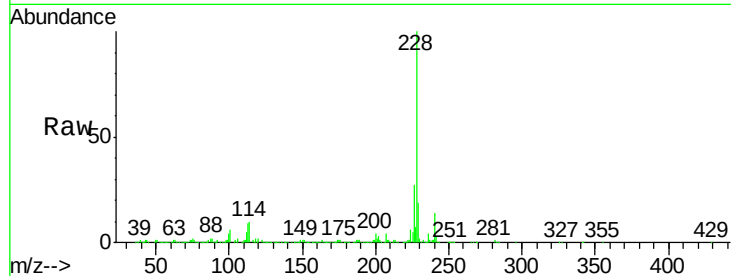
Tgt Ion:228 Resp: 945502

Ion Ratio Lower Upper

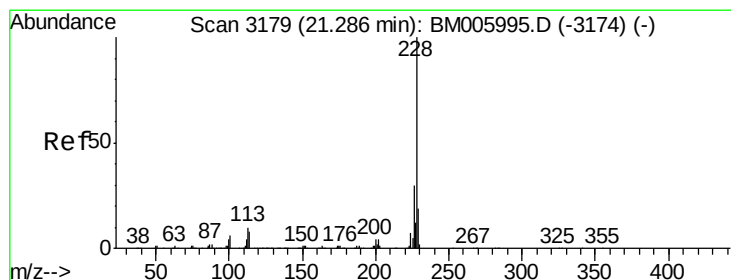
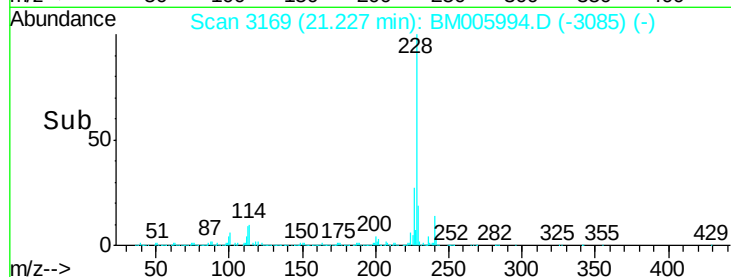
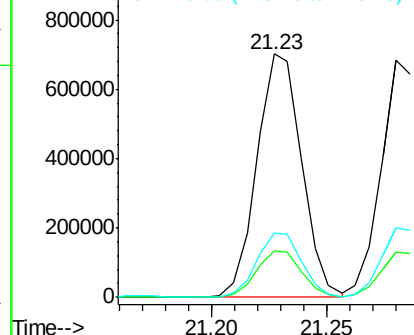
228 100

229 19.3 15.8 23.6

226 26.5 21.5 32.3



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: 10.45 ng/ul

RT: 21.28 min Scan# 3178

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

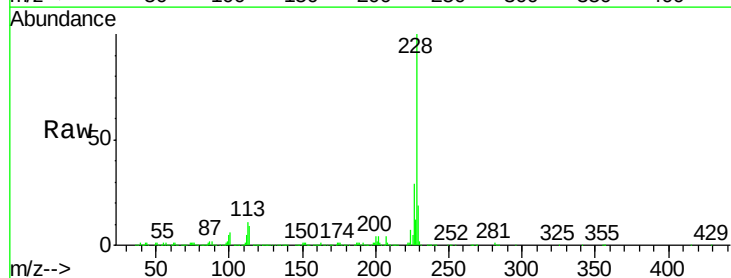
Tgt Ion:228 Resp: 861936

Ion Ratio Lower Upper

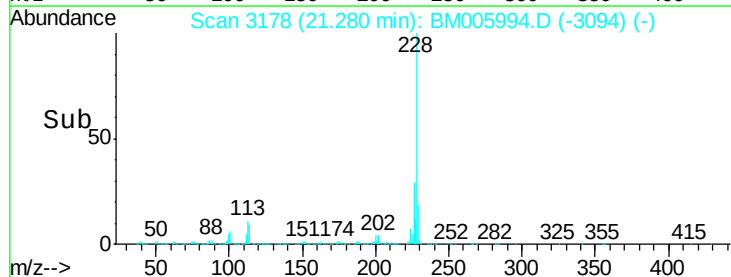
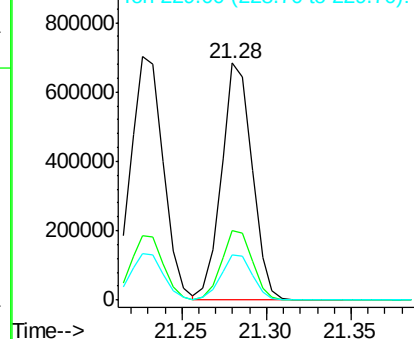
228 100

226 29.3 24.3 36.5

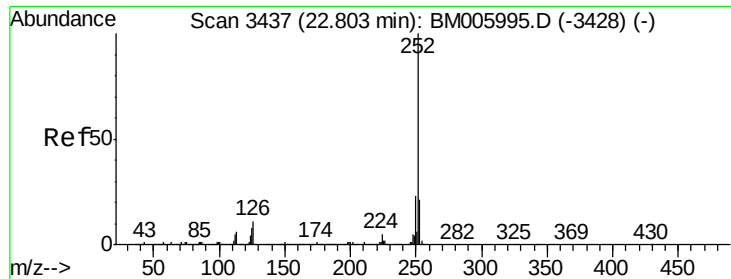
229 19.0 15.4 23.2



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: 10.60 ng/ul

RT: 22.80 min Scan# 3436

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

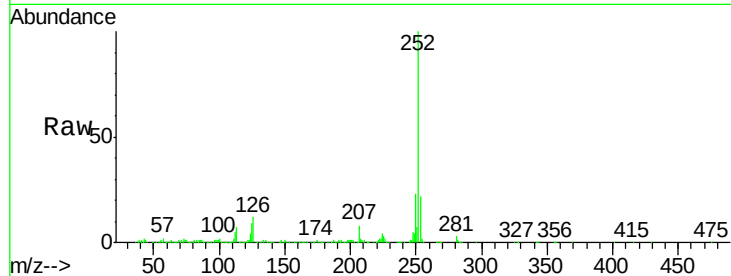
Tgt Ion:252 Resp: 1062183

Ion Ratio Lower Upper

252 100

253 21.8 17.2 25.8

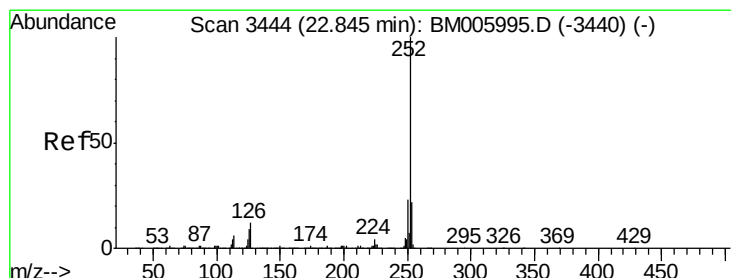
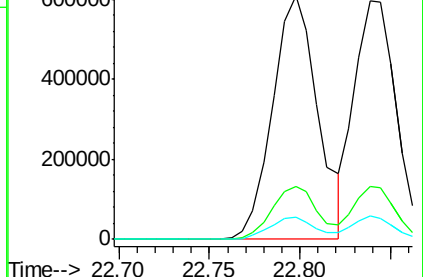
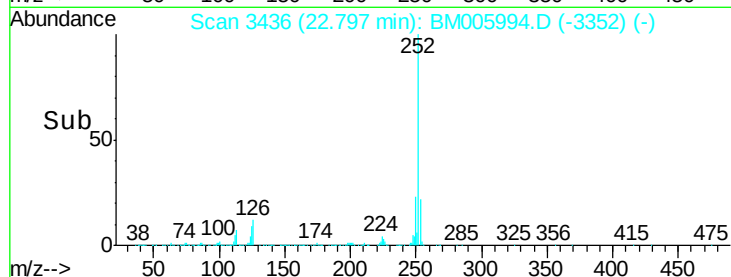
125 9.4 6.8 10.2



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



#36

Benzo(k)fluoranthene

Concen: 10.24 ng/ul

RT: 22.84 min Scan# 3443

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

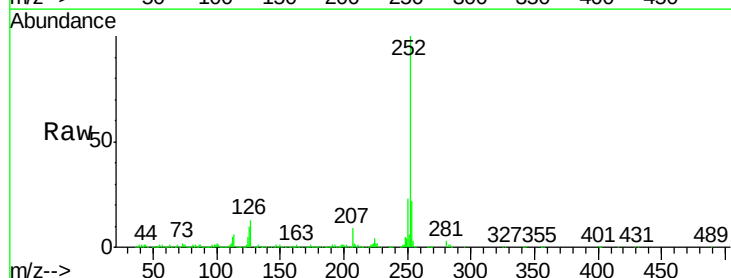
Tgt Ion:252 Resp: 954269

Ion Ratio Lower Upper

252 100

253 22.1 17.3 25.9

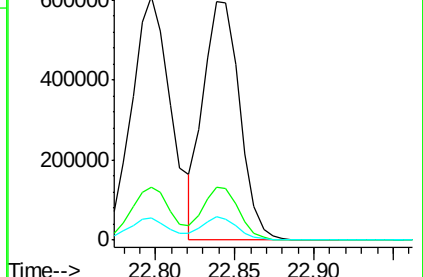
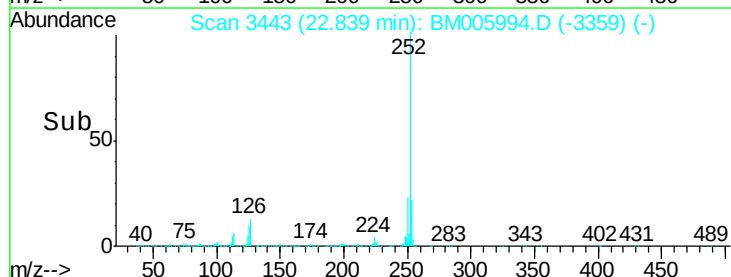
125 9.8 7.0 10.4

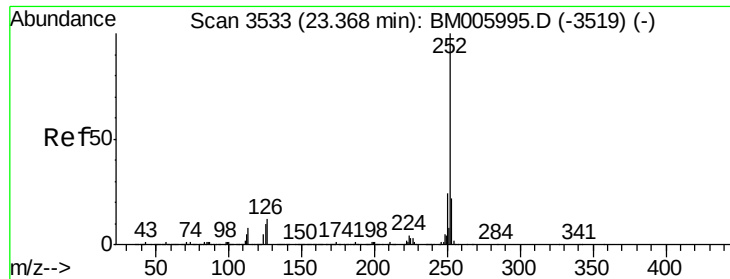


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 10.51 ng/ul

RT: 23.36 min Scan# 3532

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

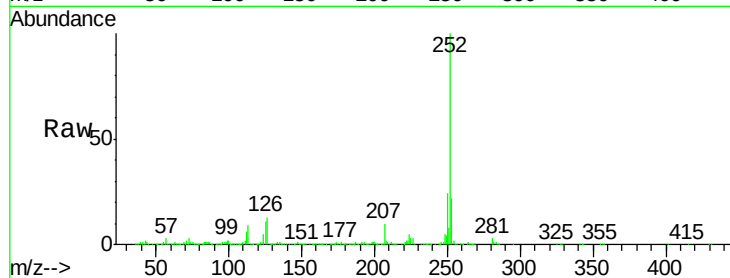
Tgt Ion:252 Resp: 1009353

Ion Ratio Lower Upper

252 100

253 22.2 17.6 26.4

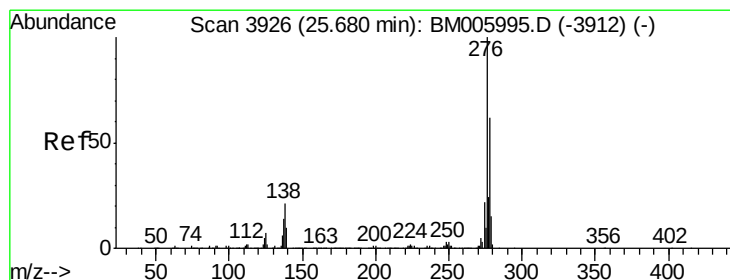
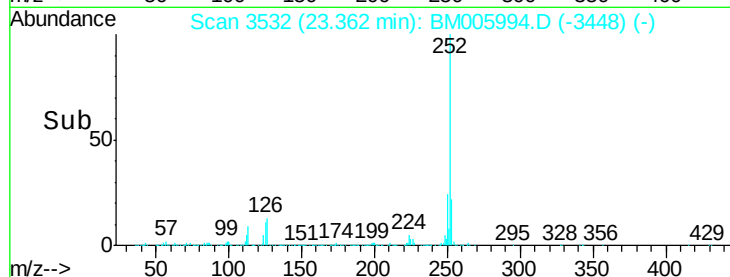
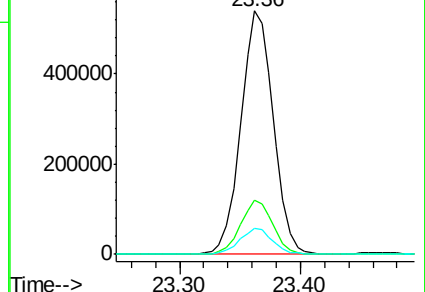
125 10.8 7.8 11.6



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



#39

Indeno(1,2,3-cd)pyrene

Concen: 10.56 ng/ul

RT: 25.67 min Scan# 3925

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

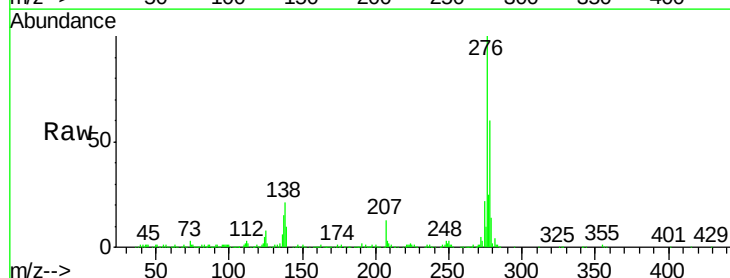
Tgt Ion:276 Resp: 1208589

Ion Ratio Lower Upper

276 100

138 21.2 16.6 25.0

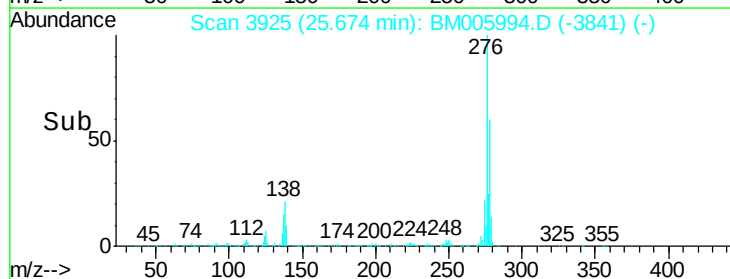
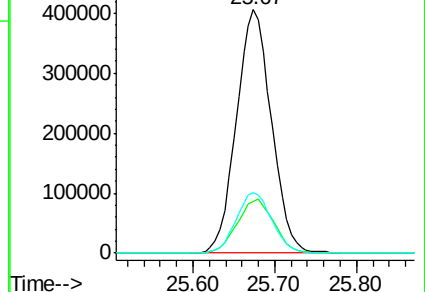
277 24.6 19.6 29.4

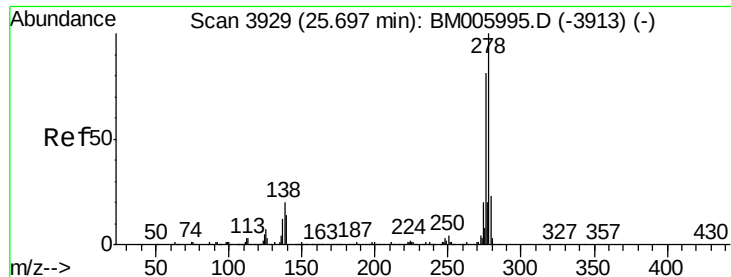


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#40

Dibenzo(a,h)anthracene

Concen: 10.61 ng/ul

RT: 25.69 min Scan# 3928

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD01060

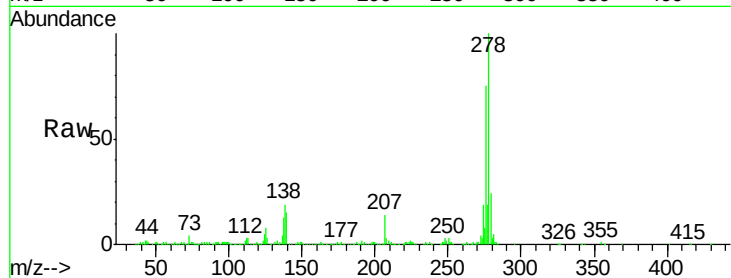
Tgt Ion:278 Resp: 1010137

Ion Ratio Lower Upper

278 100

139 15.0 11.4 17.2

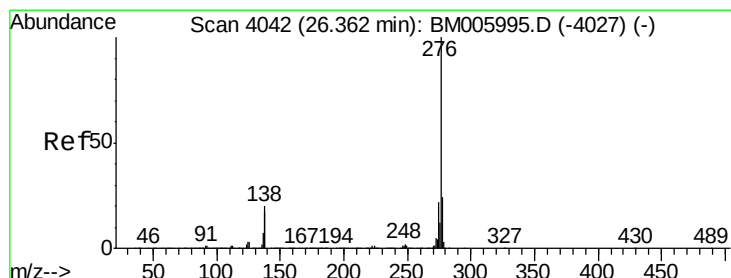
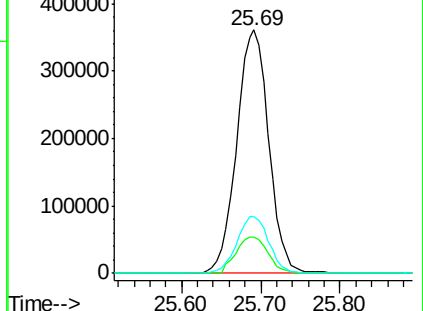
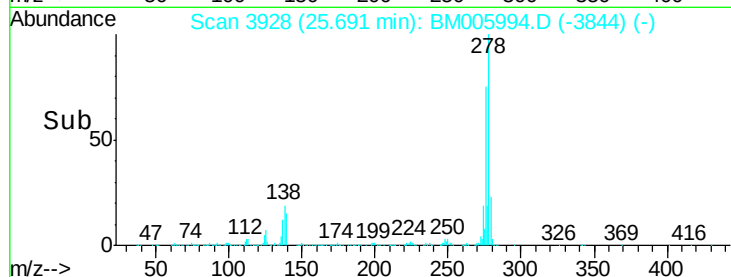
279 23.5 18.8 28.2



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



#41

Benzo(g,h,i)perylene

Concen: 10.25 ng/ul

RT: 26.36 min Scan# 4041

Delta R.T. -0.01 min

Lab File: BM005994.D

Acq: 25 Jun 2016 10:50

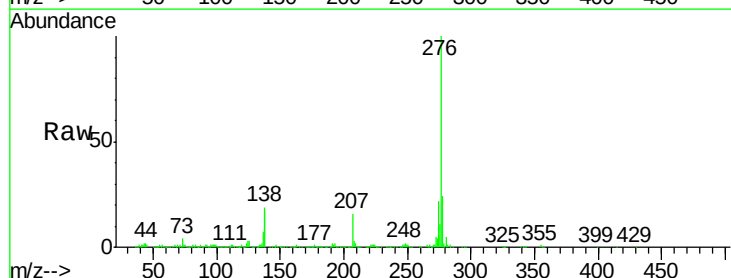
Tgt Ion:276 Resp: 1015471

Ion Ratio Lower Upper

276 100

138 19.2 15.9 23.9

277 24.0 19.2 28.8



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

