

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM122716\  
 Data File : BM008674.D  
 Acq On : 27 Dec 2016 15:16  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.436

Quant Time: Dec 28 03:24:24 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM121916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 27 15:49:02 2016  
 Response via : Initial Calibration

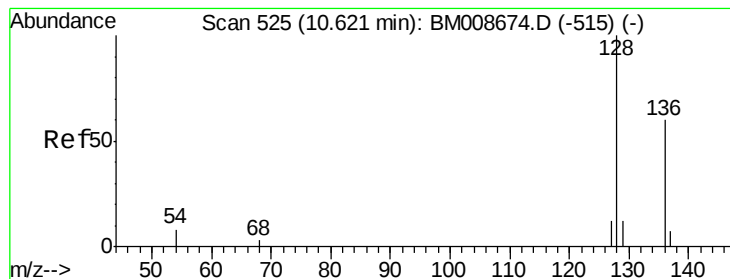
| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 181      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.57 | 136  | 775      | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.35 | 164  | 513      | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.12 | 188  | 973      | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.30 | 240  | 1032     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.54 | 264  | 1040     | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.17 | 152 | 461  | 0.39 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.15 | 212 | 1033 | 0.39 | ng/ul | 0.00 |

|                            |       |     |      |      |        |        |
|----------------------------|-------|-----|------|------|--------|--------|
| Target Compounds           |       |     |      |      |        | Qvalue |
| 3) Naphthalene             | 10.62 | 128 | 869  | 0.40 | ng/ul# | 51     |
| 5) 2-Methylnaphthalene     | 12.26 | 142 | 524  | 0.36 | ng/ul  | 87     |
| 7) Acenaphthylene          | 14.07 | 152 | 989  | 0.43 | ng/ul# | 76     |
| 8) Acenaphthene            | 14.40 | 153 | 676  | 0.39 | ng/ul# | 92     |
| 9) Fluorene                | 15.44 | 166 | 755  | 0.38 | ng/ul# | 88     |
| 11) Pentachlorophenol      | 16.83 | 266 | 106  | 0.35 | ng/ul  | 91     |
| 12) Phenanthrene           | 17.16 | 178 | 1154 | 0.39 | ng/ul# | 84     |
| 13) Anthracene             | 17.28 | 178 | 1054 | 0.37 | ng/ul# | 80     |
| 15) Fluoranthene           | 19.17 | 202 | 1404 | 0.39 | ng/ul  | 85     |
| 17) Pyrene                 | 19.54 | 202 | 1565 | 0.39 | ng/ul# | 87     |
| 18) Benzo(a)anthracene     | 21.29 | 228 | 1127 | 0.33 | ng/ul# | 90     |
| 19) Chrysene               | 21.29 | 228 | 1127 | 0.30 | ng/ul  | 92     |
| 21) Benzo(b)fluoranthene   | 22.86 | 252 | 1502 | 0.37 | ng/ul  | 87     |
| 22) Benzo(k)fluoranthene   | 22.91 | 252 | 1580 | 0.40 | ng/ul# | 86     |
| 23) Benzo(a)pyrene         | 23.45 | 252 | 1522 | 0.40 | ng/ul# | 83     |
| 24) Indeno(1,2,3-cd)pyrene | 25.82 | 276 | 1751 | 0.39 | ng/ul# | 93     |
| 25) Dibenzo(a,h)anthracene | 25.82 | 278 | 1400 | 0.39 | ng/ul# | 71     |
| 26) Benzo(g,h,i)perylene   | 26.51 | 276 | 1522 | 0.39 | ng/ul# | 86     |

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

```
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122716\  
Data File : BM008674.D  
Acq On    : 27 Dec 2016  15:16  
Operator  : UM/SJ  
Sample    : SSTDCCC0.4  
Misc      :  
ALS Vial  : 2      Sample Multiplier: 1
```



#3

Naphthalene

Concen: 0.40 ng/ul

RT: 10.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

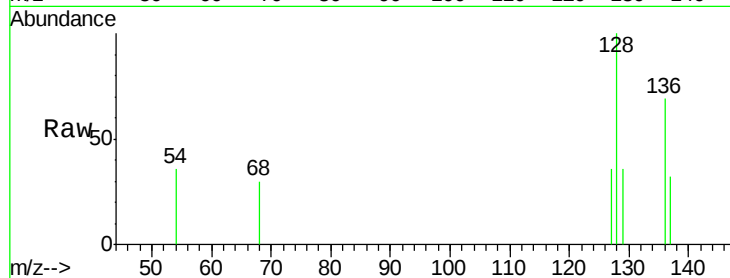
Tgt Ion:128 Resp: 869

Ion Ratio Lower Upper

128 100

129 35.6 11.3 16.9#

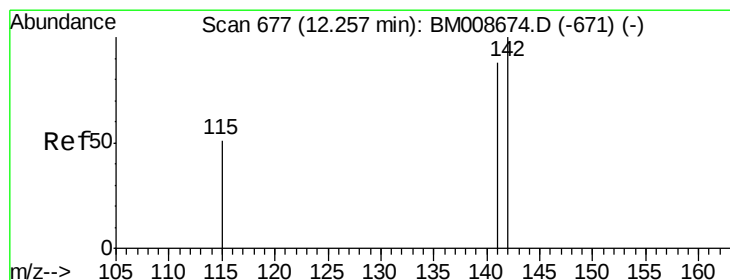
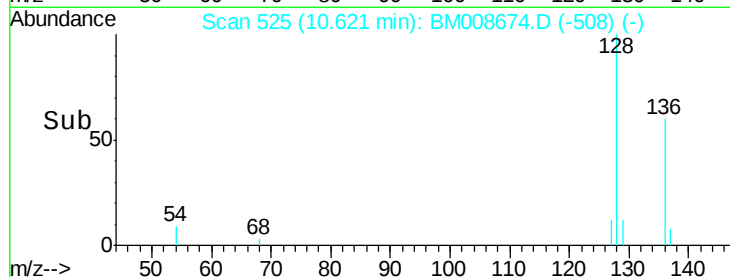
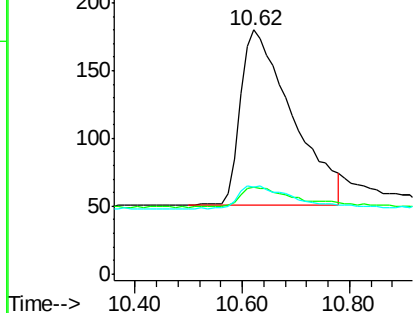
127 35.6 12.8 19.2#



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



#5

2-Methylnaphthalene

Concen: 0.36 ng/ul

RT: 12.26 min Scan# 677

Delta R.T. 0.00 min

Lab File: BM008674.D

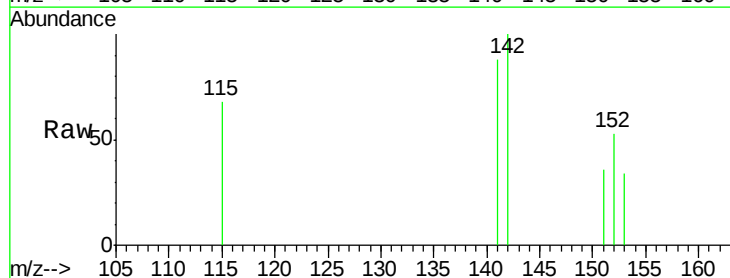
Acq: 27 Dec 2016 15:16

Tgt Ion:142 Resp: 524

Ion Ratio Lower Upper

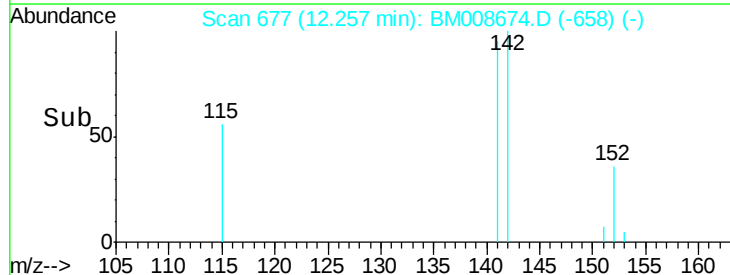
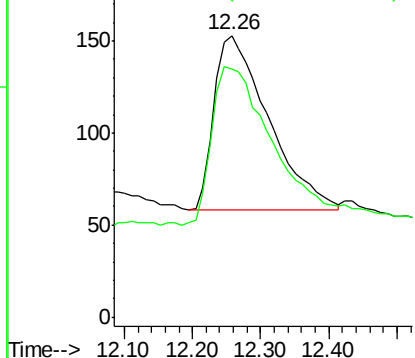
142 100

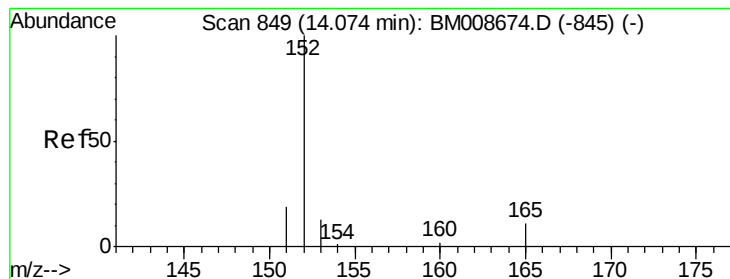
141 103.2 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.43 ng/ul

RT: 14.07 min Scan# 849

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

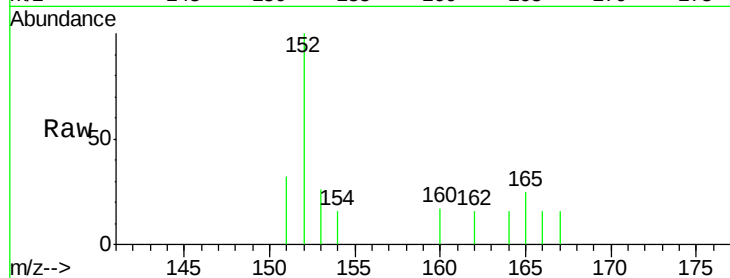
Tgt Ion:152 Resp: 989

Ion Ratio Lower Upper

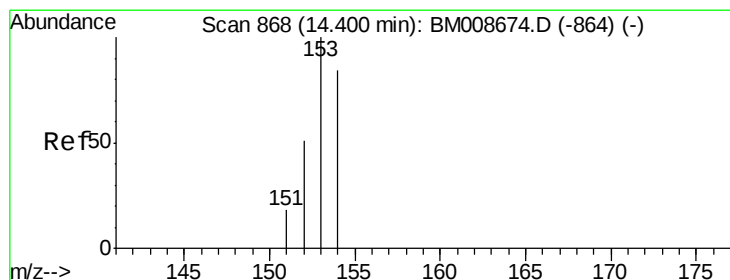
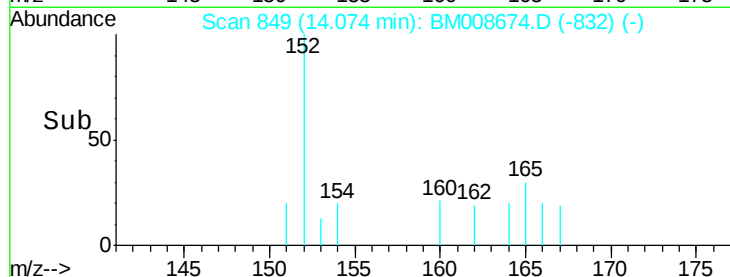
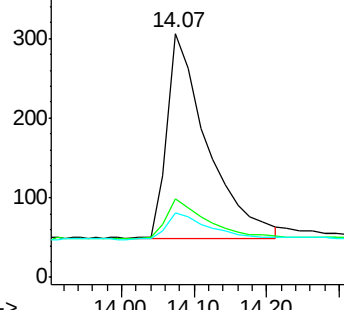
152 100

151 32.4 17.1 25.7#

153 26.5 12.8 19.2#



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



#8

Acenaphthene

Concen: 0.39 ng/ul

RT: 14.40 min Scan# 868

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

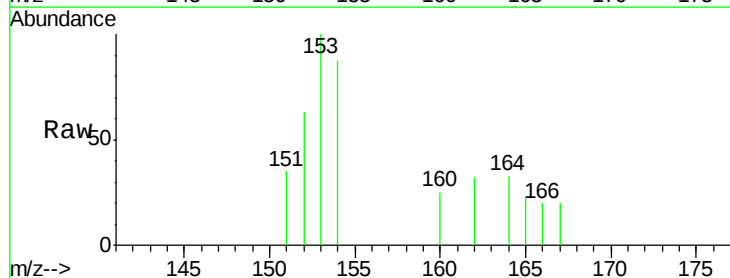
Tgt Ion:153 Resp: 676

Ion Ratio Lower Upper

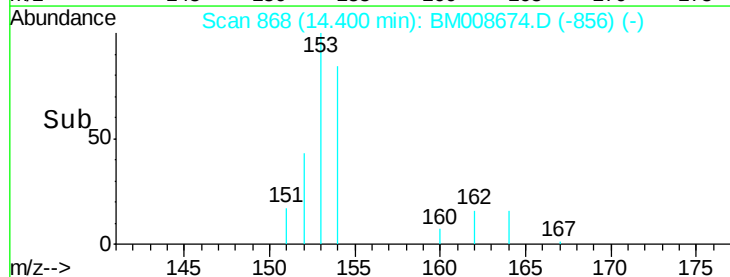
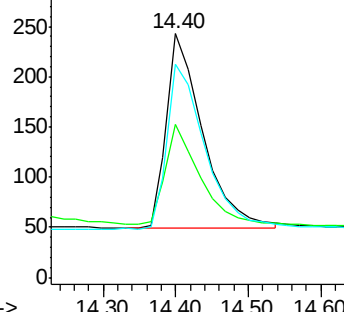
153 100

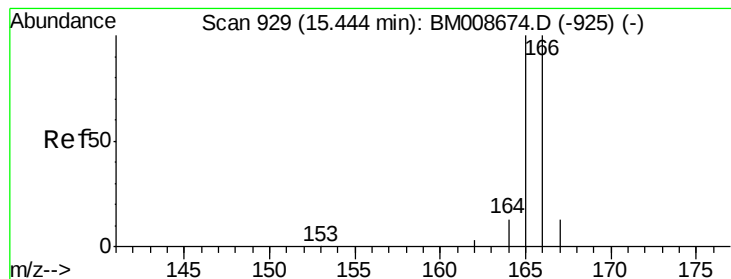
152 62.6 40.3 60.5#

154 87.2 71.4 107.2



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





#9

Fluorene

Concen: 0.38 ng/ul

RT: 15.44 min Scan# 929

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

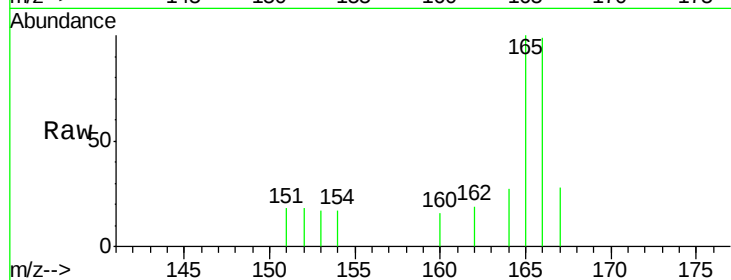
Tgt Ion:166 Resp: 755

Ion Ratio Lower Upper

166 100

165 101.4 73.4 110.2

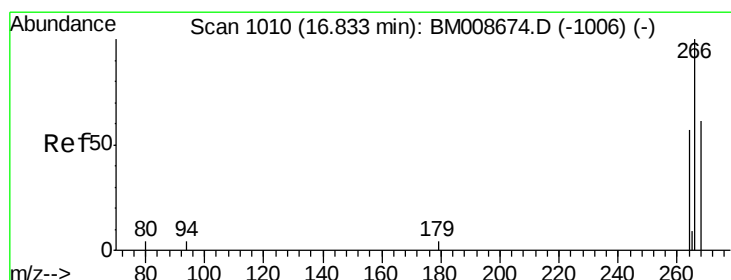
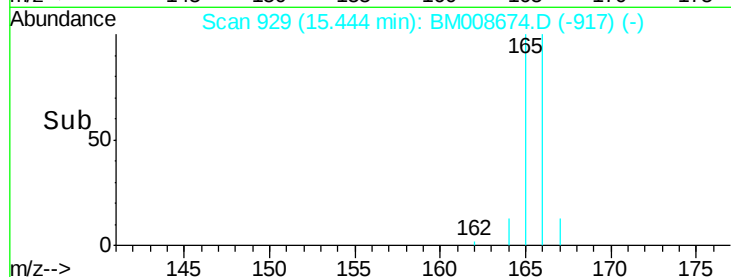
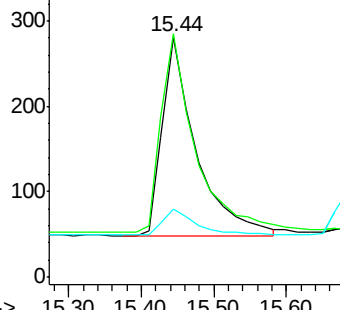
167 28.1 14.6 22.0#



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



#11

Pentachlorophenol

Concen: 0.35 ng/ul

RT: 16.83 min Scan# 1010

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

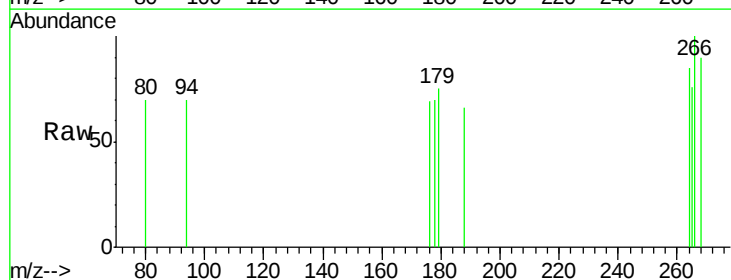
Tgt Ion:266 Resp: 106

Ion Ratio Lower Upper

266 100

264 69.8 47.9 71.9

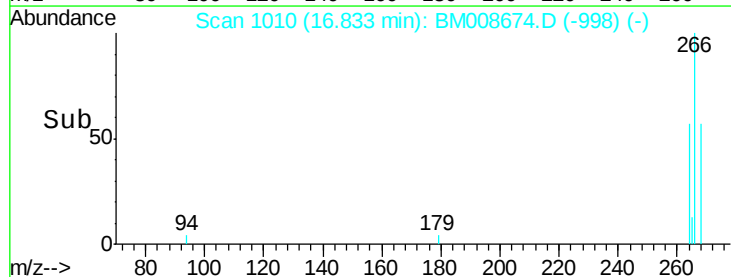
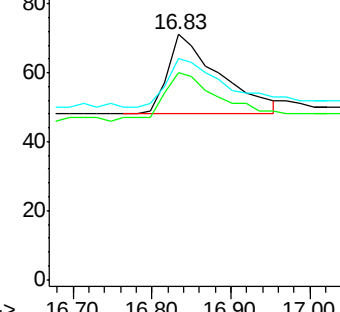
268 66.0 49.8 74.8

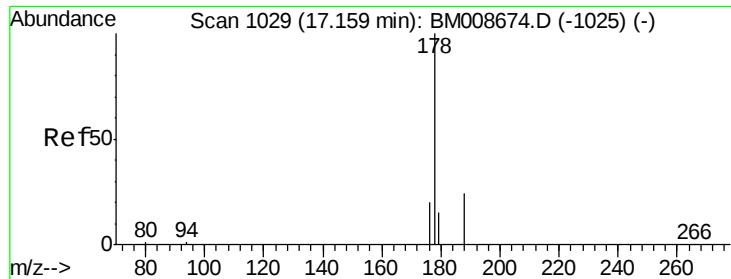


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.39 ng/ul

RT: 17.16 min Scan# 1029

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

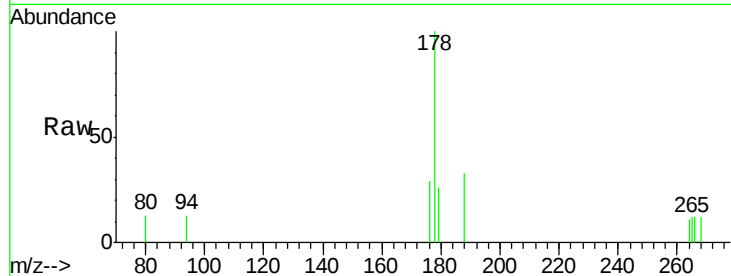
Tgt Ion:178 Resp: 1154

Ion Ratio Lower Upper

178 100

176 28.9 18.4 27.6#

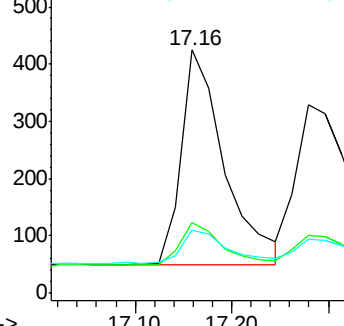
179 26.1 13.6 20.4#



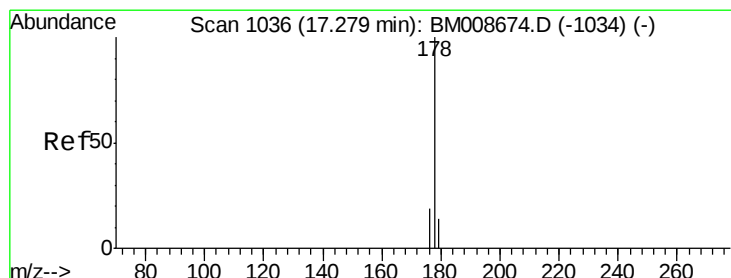
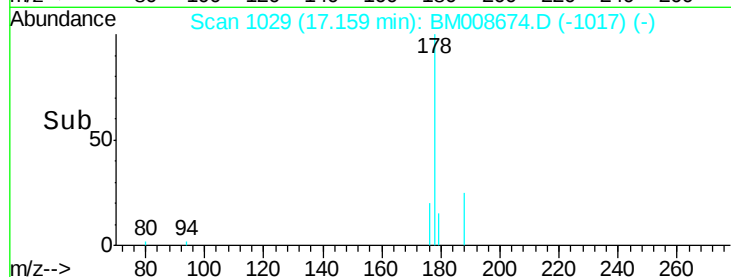
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#13

Anthracene

Concen: 0.37 ng/ul

RT: 17.28 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

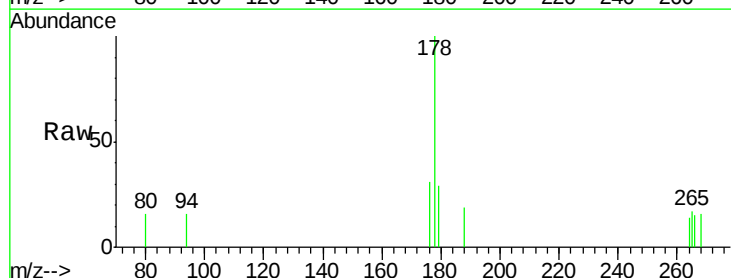
Tgt Ion:178 Resp: 1054

Ion Ratio Lower Upper

178 100

176 31.0 18.1 27.1#

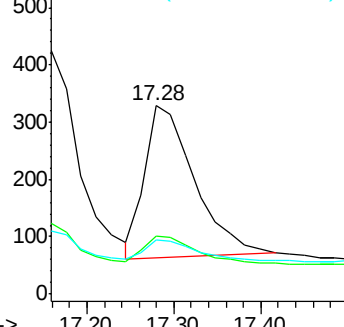
179 28.6 14.7 22.1#



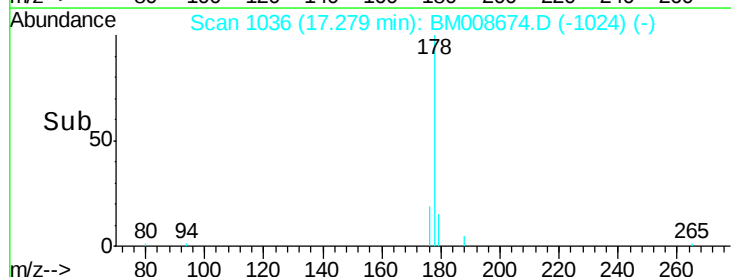
Abundance Ion 178.00 (177.70 to 178.70): E

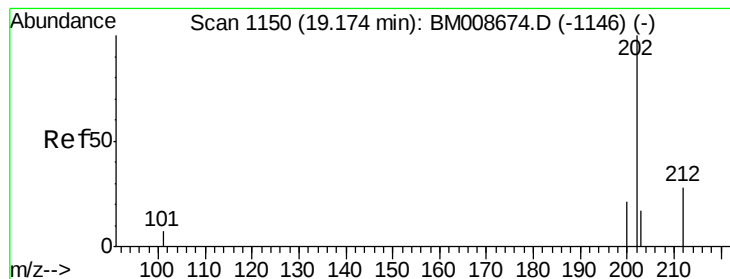
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#15

Fluoranthene

Concen: 0.39 ng/ul

RT: 19.17 min Scan# 1150

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

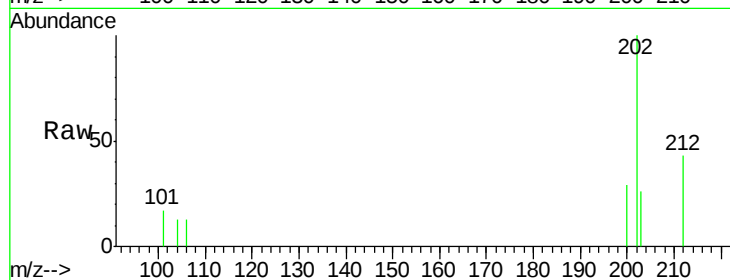
Tgt Ion:202 Resp: 1404

Ion Ratio Lower Upper

202 100

101 16.5 0.0 30.3

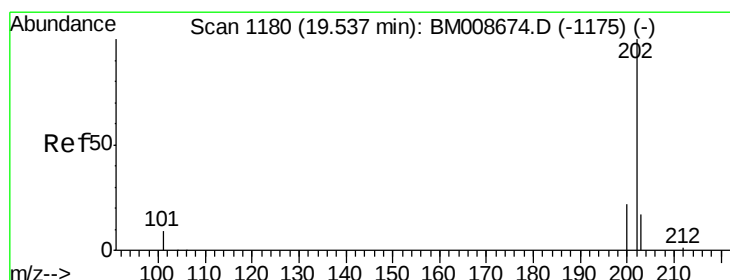
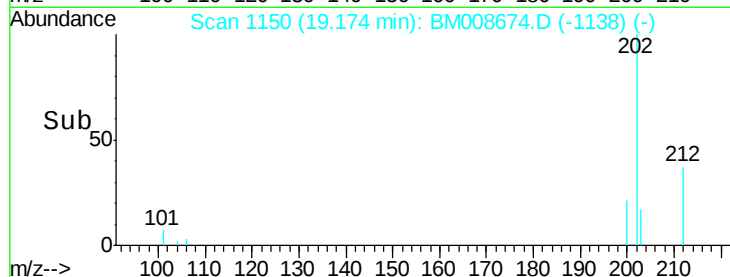
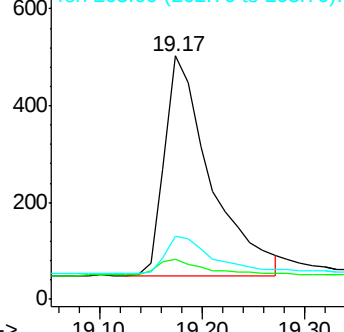
203 25.8 0.0 39.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#17

Pyrene

Concen: 0.39 ng/ul

RT: 19.54 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

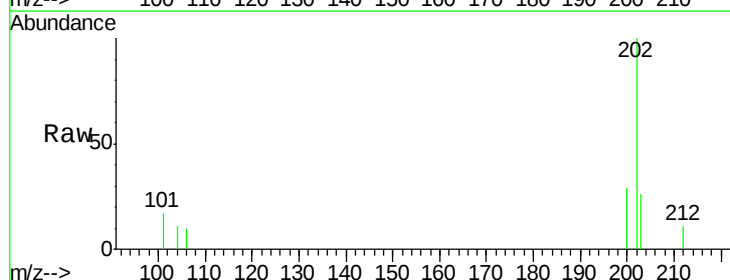
Tgt Ion:202 Resp: 1565

Ion Ratio Lower Upper

202 100

200 28.7 18.2 27.4#

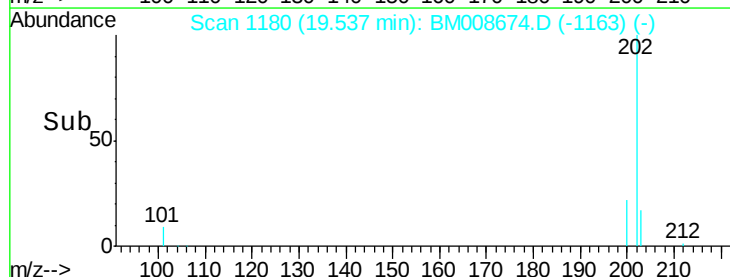
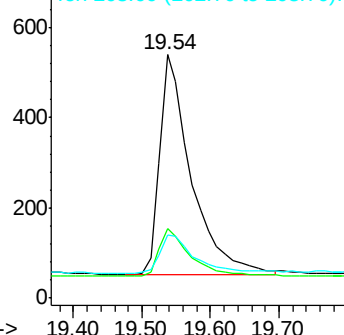
203 25.9 15.6 23.4#

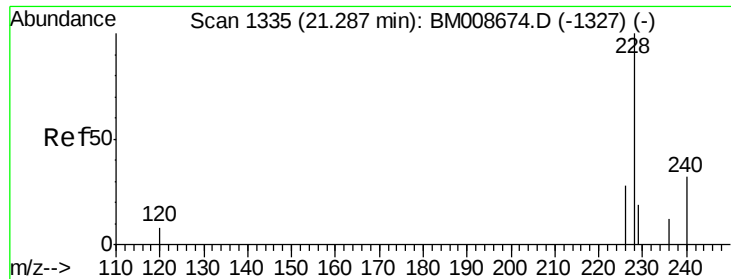


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.33 ng/ul

RT: 21.29 min Scan# 1335

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

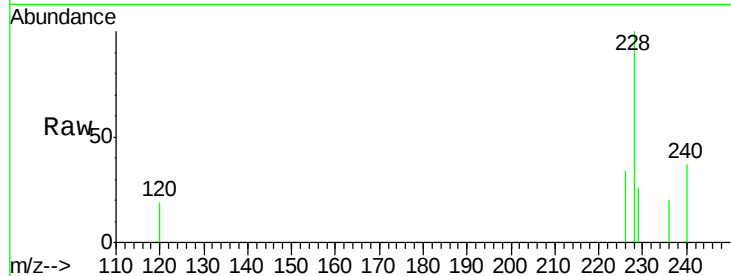
Tgt Ion:228 Resp: 1127

Ion Ratio Lower Upper

228 100

226 34.1 22.8 34.2

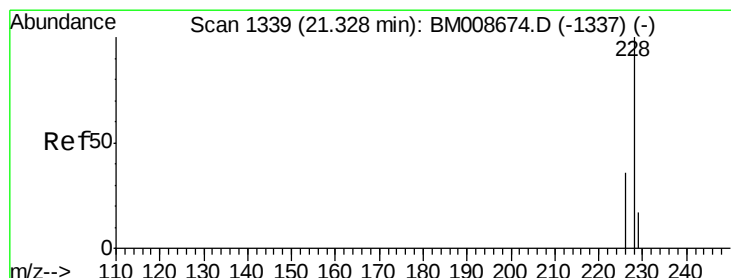
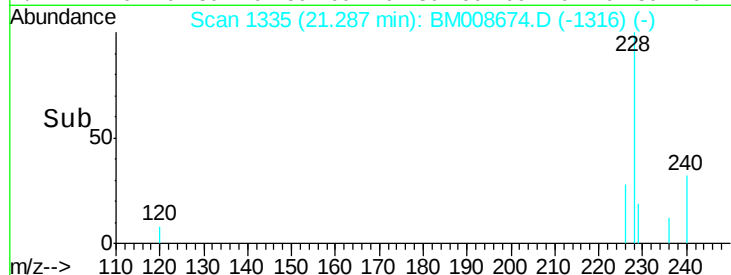
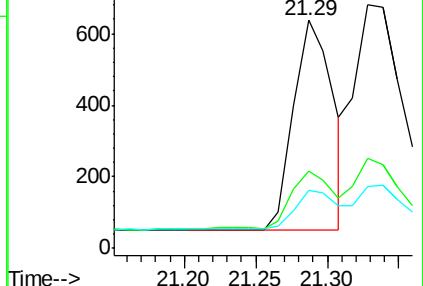
229 25.7 17.0 25.6#



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



#19

Chrysene

Concen: 0.30 ng/ul

RT: 21.29 min Scan# 1335

Delta R.T. -0.04 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

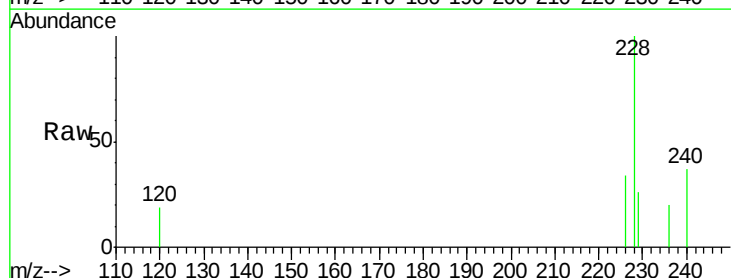
Tgt Ion:228 Resp: 1127

Ion Ratio Lower Upper

228 100

226 34.1 23.4 35.0

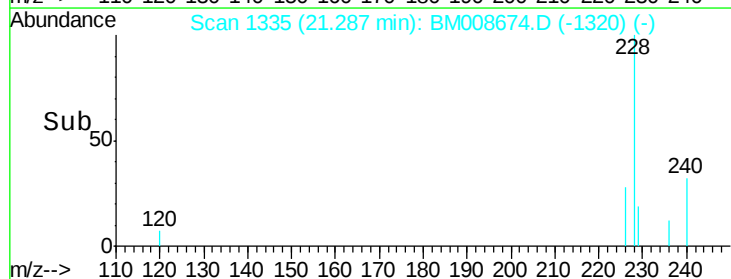
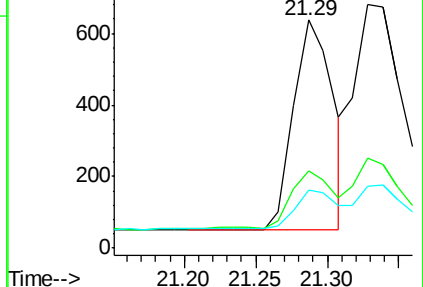
229 25.7 17.7 26.5

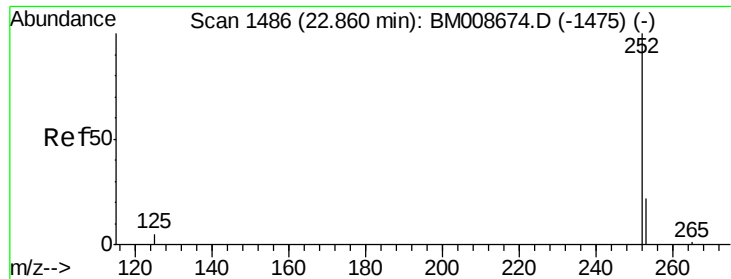


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.37 ng/ul

RT: 22.86 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

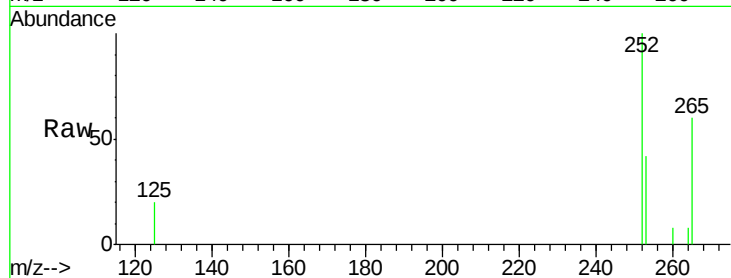
Tgt Ion:252 Resp: 1502

Ion Ratio Lower Upper

252 100

253 41.8 0.0 64.2

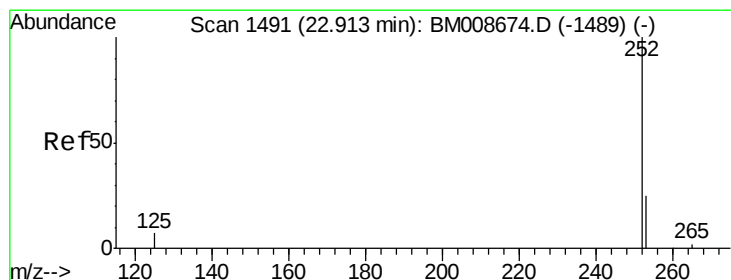
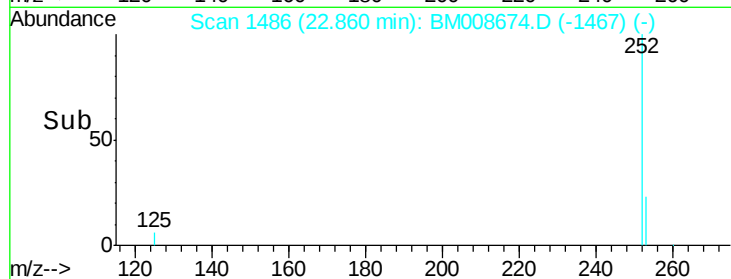
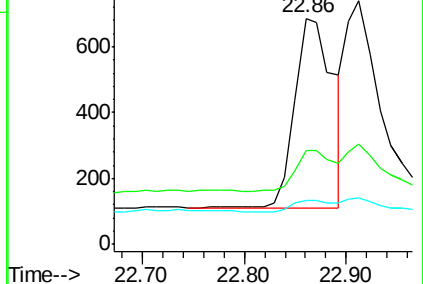
125 19.5 0.0 35.0



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



#22

Benzo(k)fluoranthene

Concen: 0.40 ng/ul

RT: 22.91 min Scan# 1491

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

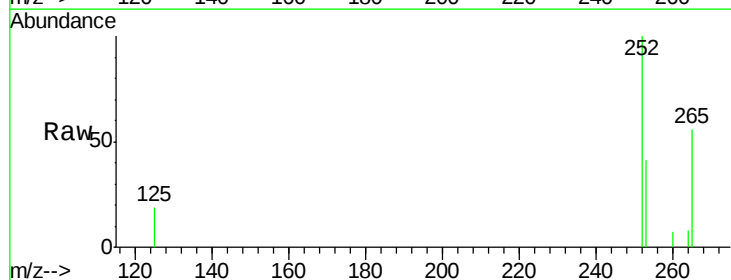
Tgt Ion:252 Resp: 1580

Ion Ratio Lower Upper

252 100

253 41.1 24.5 36.7#

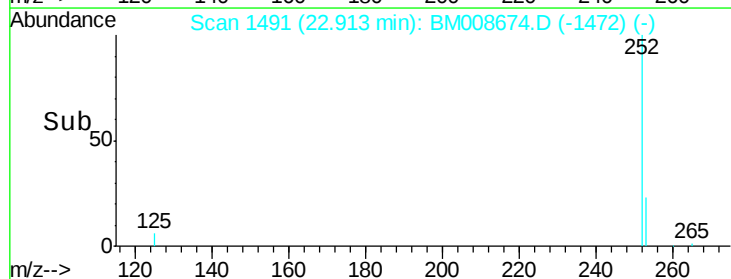
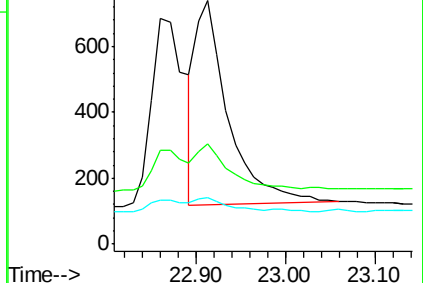
125 18.9 13.7 20.5

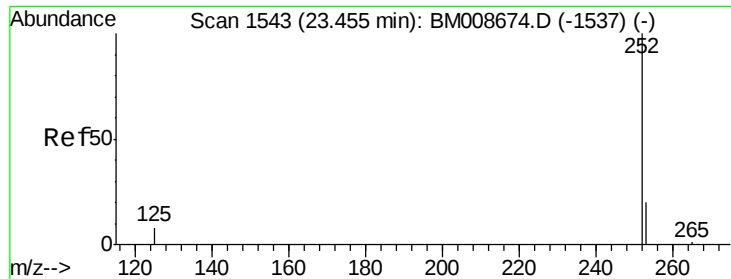


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.40 ng/ul

RT: 23.45 min Scan# 1543

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

Instrument :

BNA\_M

ClientSampleId :

SSTD0.436

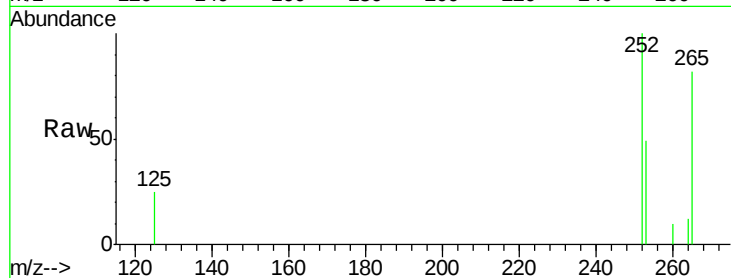
Tgt Ion: 252 Resp: 1522

Ion Ratio Lower Upper

252 100

253 49.2 28.5 42.7#

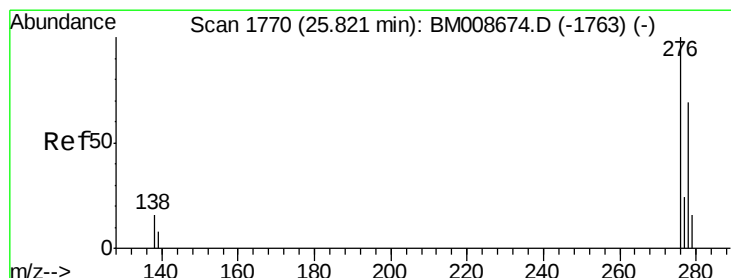
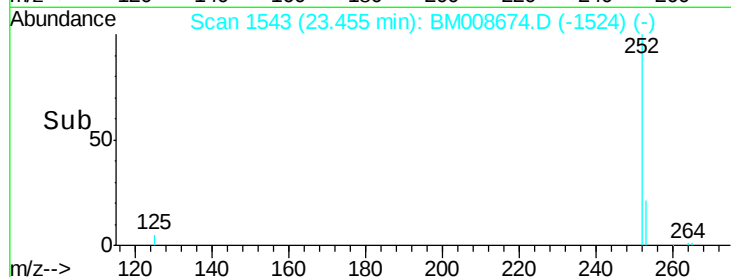
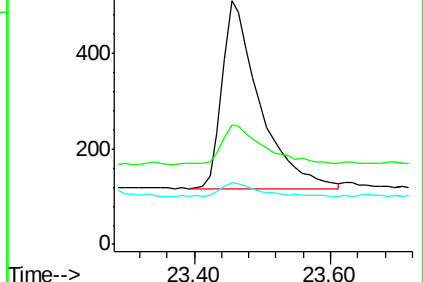
125 25.5 18.1 27.1



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.39 ng/ul

RT: 25.82 min Scan# 1770

Delta R.T. 0.00 min

Lab File: BM008674.D

Acq: 27 Dec 2016 15:16

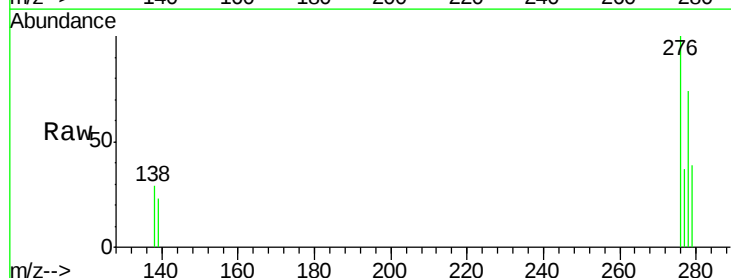
Tgt Ion: 276 Resp: 1751

Ion Ratio Lower Upper

276 100

138 17.0 19.1 28.7#

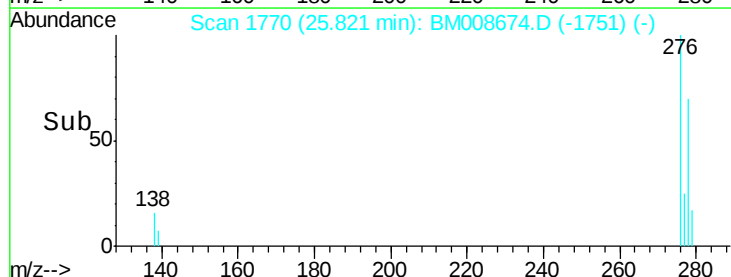
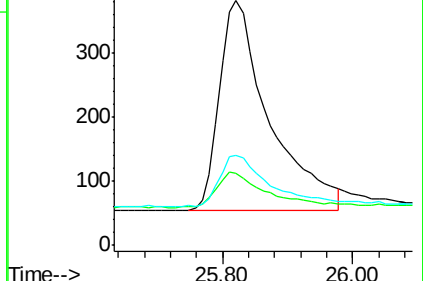
277 24.6 19.6 29.4

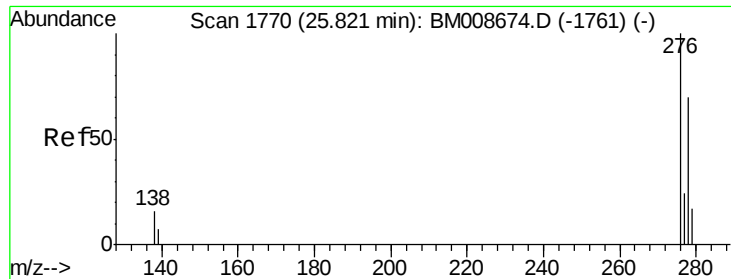


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

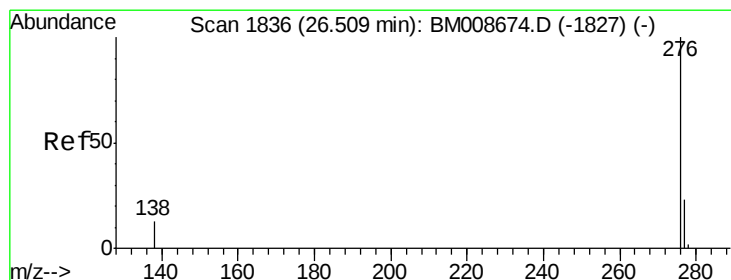
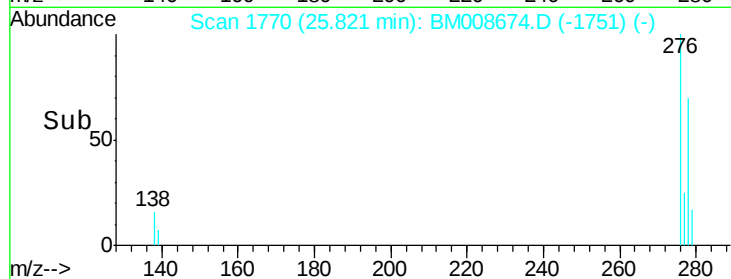
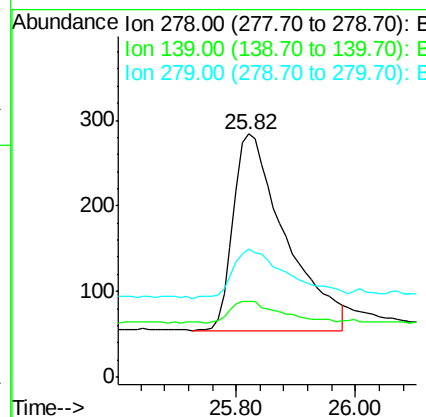
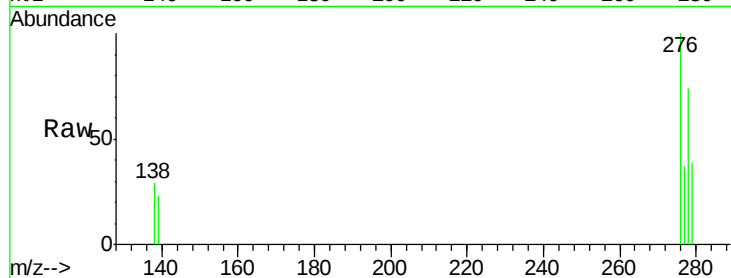




#25  
Dibenzo(a,h)anthracene  
Concen: 0.39 ng/ul  
RT: 25.82 min Scan# 1770  
Delta R.T. 0.00 min  
Lab File: BM008674.D  
Acq: 27 Dec 2016 15:16

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.436

Tgt Ion: 278 Resp: 1400  
Ion Ratio Lower Upper  
278 100  
139 31.0 17.4 26.0#  
279 52.5 25.9 38.9#



#26  
Benzo(g,h,i)perylene  
Concen: 0.39 ng/ul  
RT: 26.51 min Scan# 1836  
Delta R.T. 0.00 min  
Lab File: BM008674.D  
Acq: 27 Dec 2016 15:16

Tgt Ion: 276 Resp: 1522  
Ion Ratio Lower Upper  
276 100  
277 38.1 21.8 32.8#  
138 29.4 20.5 30.7

