

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM082915\  
 Data File : BM002584.D  
 Acq On : 30 Aug 2015 02:59  
 Operator : UM/IZ  
 Sample : G3455-22  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9E85

Quant Time: Aug 31 01:37:19 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 31 01:34:36 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.78  | 152  | 144876   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.65 | 136  | 591579   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.37 | 164  | 286927   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.08 | 188  | 565918   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.16 | 240  | 589227   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.80 | 264  | 613958   | 20.00 | ng/ul | 0.02     |

|                             |       |     |        |       |       |      |
|-----------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds |       |     |        |       |       |      |
| 7) Acenaphthylene-d8        | 15.07 | 160 | 345154 | 11.77 | ng/ul | 0.00 |
| 10) Fluorene-d10            | 16.34 | 176 | 216489 | 10.51 | ng/ul | 0.00 |
| 14) Anthracene-d10          | 18.18 | 188 | 291798 | 10.69 | ng/ul | 0.00 |
| 18) Pyrene-d10              | 20.40 | 212 | 249909 | 9.57  | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12      | 24.63 | 264 | 197016 | 6.11  | ng/ul | 0.02 |

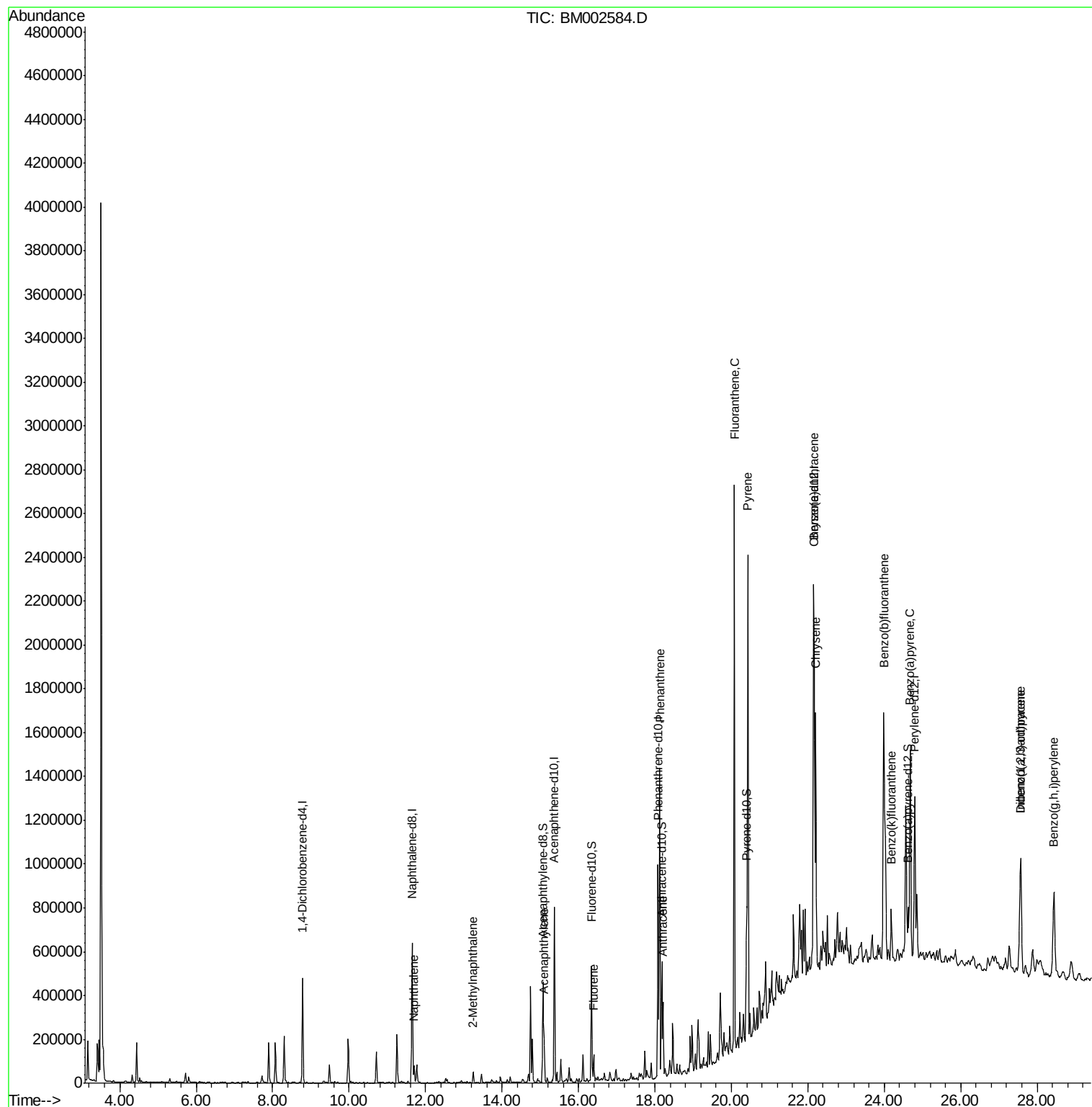
|                            |       |     |         |        |        |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| Target Compounds           |       |     |         | Qvalue |        |    |
| 3) Naphthalene             | 11.70 | 128 | 69839   | 2.31   | ng/ul  | 99 |
| 4) 2-Methylnaphthalene     | 13.25 | 142 | 25231   | 1.12   | ng/ul  | 99 |
| 8) Acenaphthylene          | 15.10 | 152 | 155933  | 5.08   | ng/ul  | 99 |
| 11) Fluorene               | 16.40 | 166 | 55289   | 2.39   | ng/ul  | 98 |
| 13) Phenanthrene           | 18.12 | 178 | 899211  | 27.52  | ng/ul  | 99 |
| 15) Anthracene             | 18.22 | 178 | 225267  | 6.80   | ng/ul  | 99 |
| 16) Fluoranthene           | 20.08 | 202 | 1611628 | 43.56  | ng/ul  | 98 |
| 19) Pyrene                 | 20.43 | 202 | 1351814 | 39.16  | ng/ul  | 97 |
| 20) Benzo(a)anthracene     | 22.14 | 228 | 779451  | 22.12  | ng/ul  | 98 |
| 21) Chrysene               | 22.20 | 228 | 726443  | 22.04  | ng/ul  | 97 |
| 23) Benzo(b)fluoranthene   | 23.99 | 252 | 1109051 | 29.88  | ng/ul  | 97 |
| 24) Benzo(k)fluoranthene   | 24.19 | 252 | 167863  | 4.77   | ng/ul# | 85 |
| 26) Benzo(a)pyrene         | 24.68 | 252 | 746757  | 21.06  | ng/ul  | 96 |
| 27) Indeno(1,2,3-cd)pyrene | 27.57 | 276 | 586613  | 14.39  | ng/ul  | 95 |
| 28) Dibenzo(a,h)anthracene | 27.57 | 278 | 154053  | 4.52   | ng/ul# | 75 |
| 29) Benzo(g,h,i)perylene   | 28.44 | 276 | 525561  | 15.49  | ng/ul  | 97 |

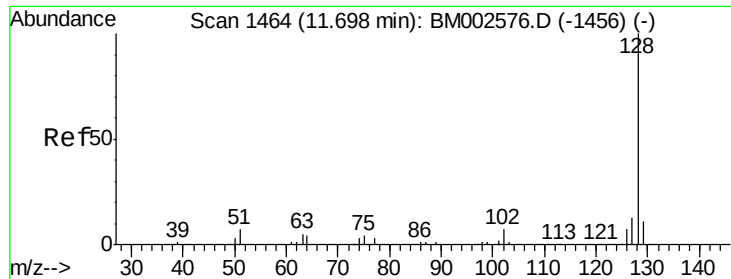
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 31 01:34:36 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.31 ng/ul

RT: 11.70 min Scan# 1464

Delta R.T. 0.00 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Instrument :

BNA\_M

ClientSampleId :

D9E85

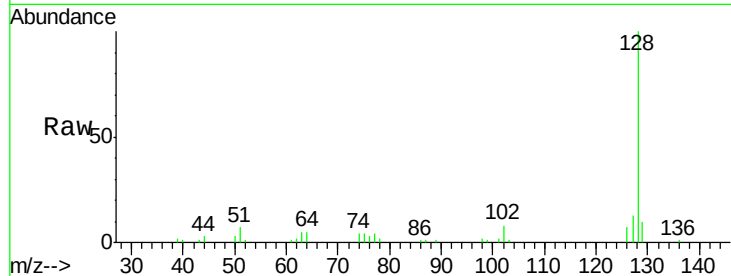
Tgt Ion:128 Resp: 69839

Ion Ratio Lower Upper

128 100

129 10.3 8.6 12.8

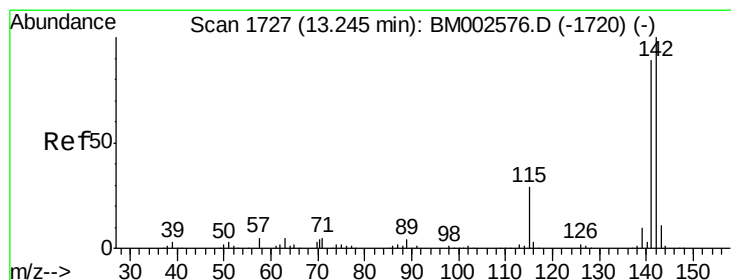
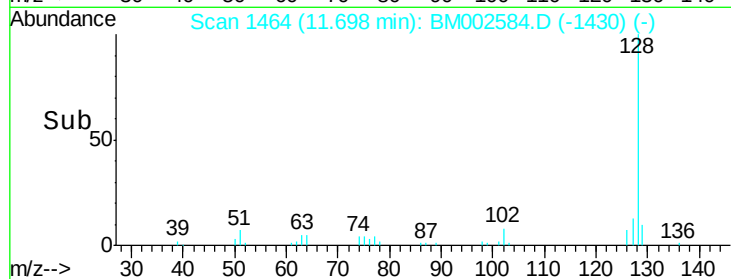
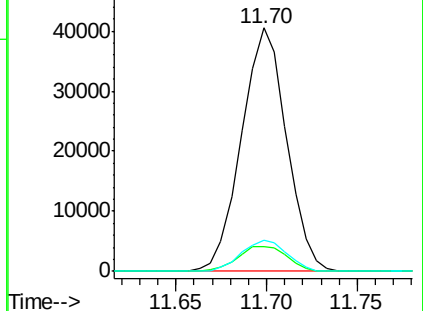
127 12.8 10.4 15.6



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



#4

2-Methylnaphthalene

Concen: 1.12 ng/ul

RT: 13.25 min Scan# 1727

Delta R.T. 0.00 min

Lab File: BM002584.D

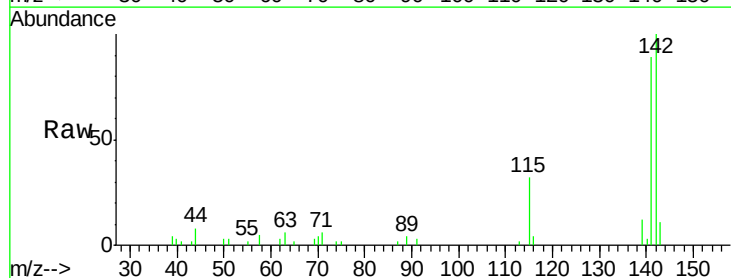
Acq: 30 Aug 2015 02:59

Tgt Ion:142 Resp: 25231

Ion Ratio Lower Upper

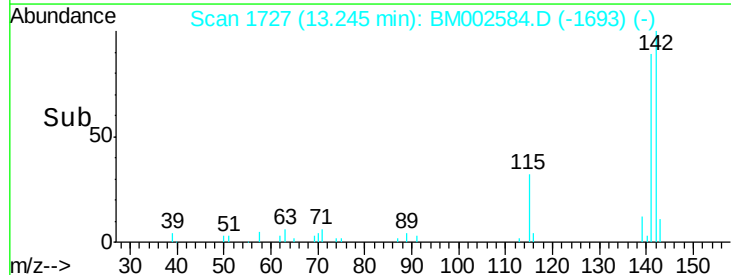
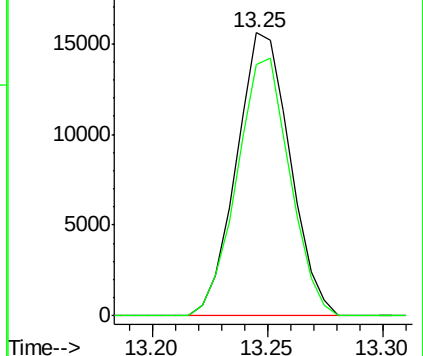
142 100

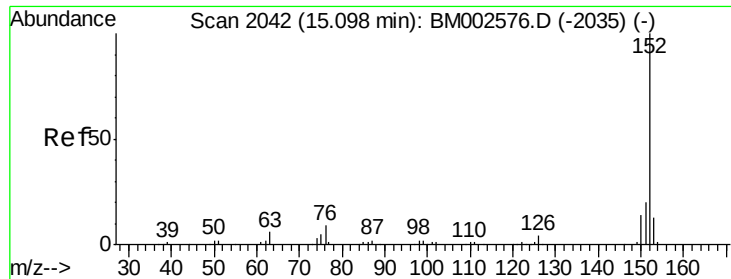
141 89.0 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#8

Acenaphthylene

Concen: 5.08 ng/ul

RT: 15.10 min Scan# 2043

Delta R.T. 0.01 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Instrument :

BNA\_M

ClientSampleId :

D9E85

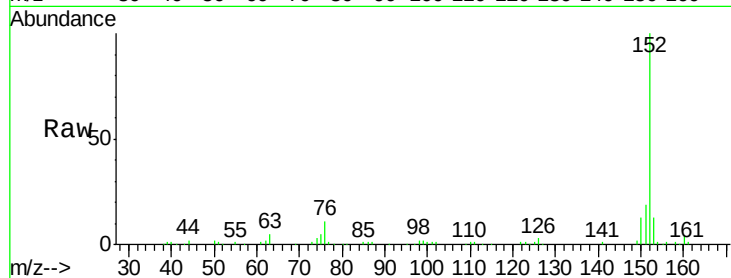
Tgt Ion:152 Resp: 155933

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

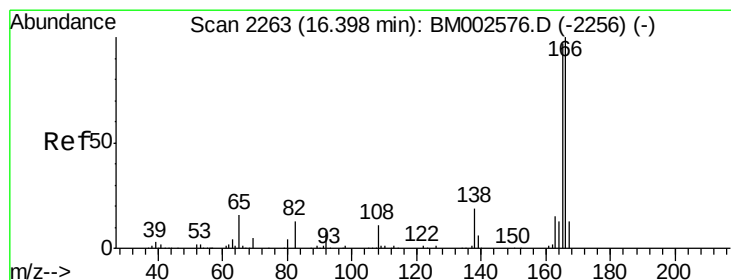
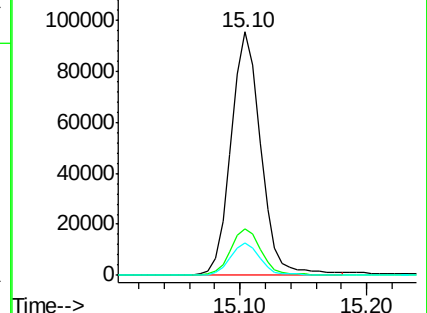
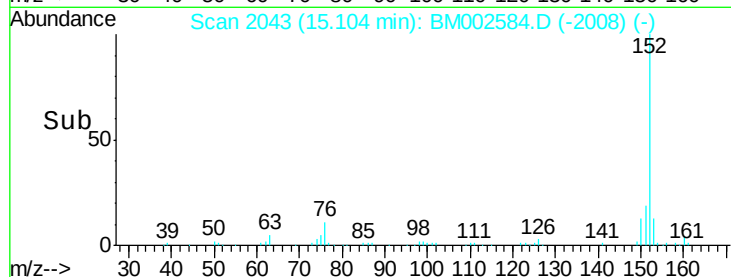
153 13.2 10.2 15.4



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



#11

Fluorene

Concen: 2.39 ng/ul

RT: 16.40 min Scan# 2263

Delta R.T. 0.00 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

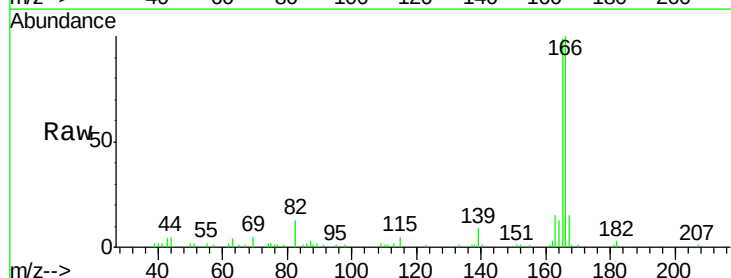
Tgt Ion:166 Resp: 55289

Ion Ratio Lower Upper

166 100

165 99.3 77.6 116.4

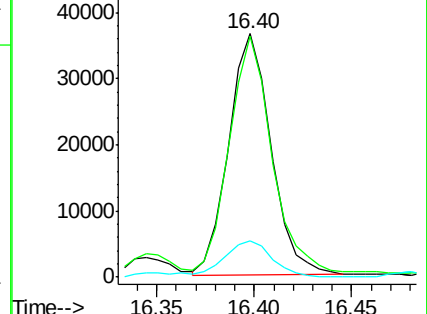
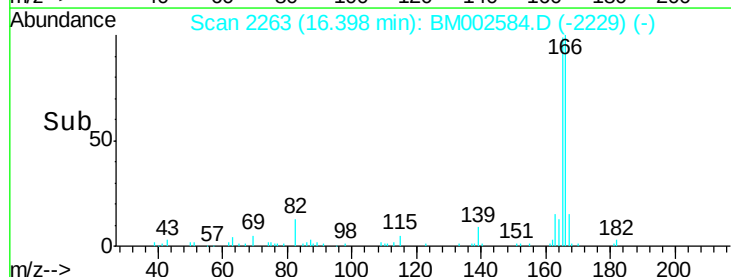
167 14.7 10.7 16.1

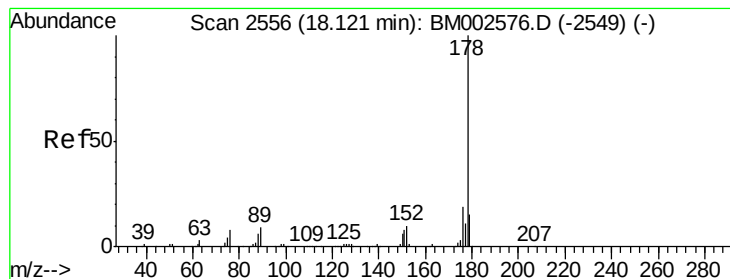


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene

Concen: 27.52 ng/ul

RT: 18.12 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Instrument :

BNA\_M

ClientSampleId :

D9E85

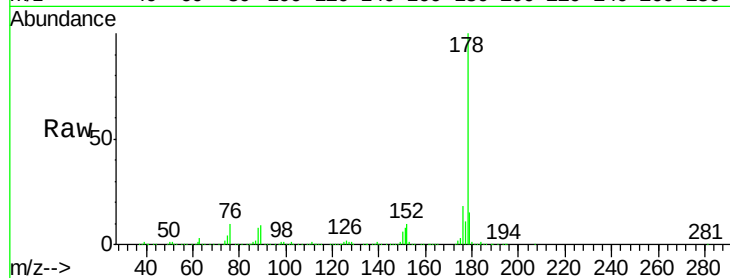
Tgt Ion:178 Resp: 899211

Ion Ratio Lower Upper

178 100

179 15.5 12.4 18.6

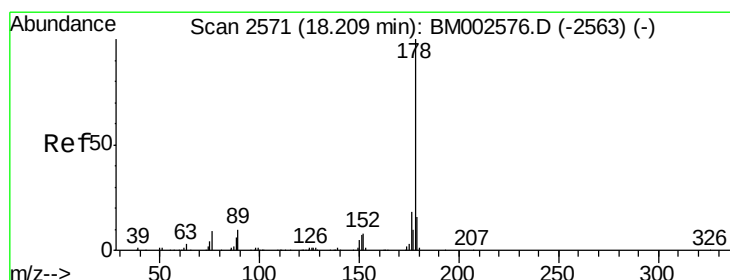
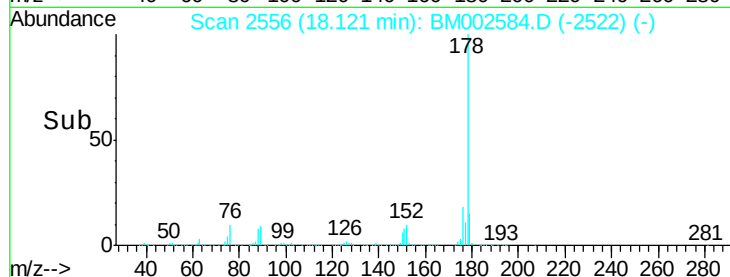
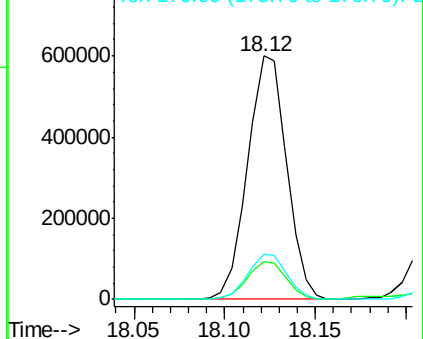
176 18.4 15.1 22.7



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



#15

Anthracene

Concen: 6.80 ng/ul

RT: 18.22 min Scan# 2572

Delta R.T. 0.01 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

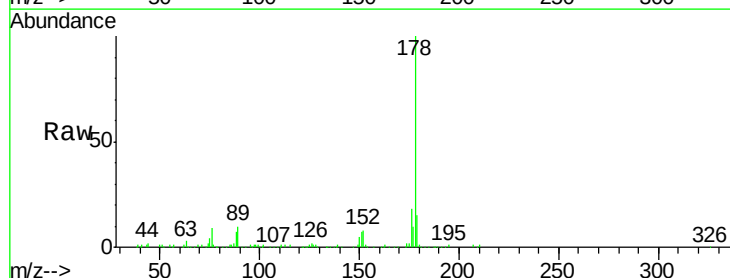
Tgt Ion:178 Resp: 225267

Ion Ratio Lower Upper

178 100

179 15.2 12.6 18.8

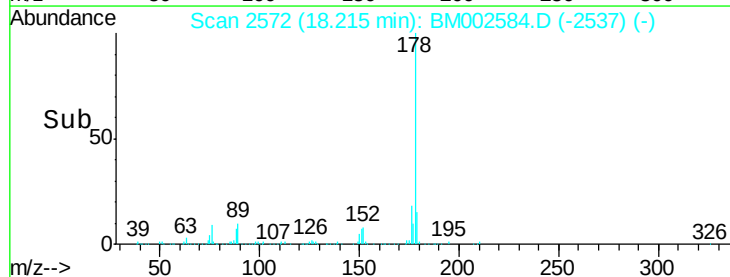
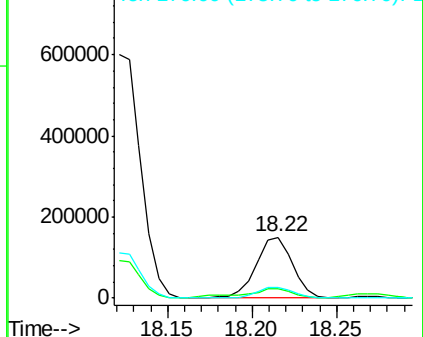
176 17.6 14.5 21.7

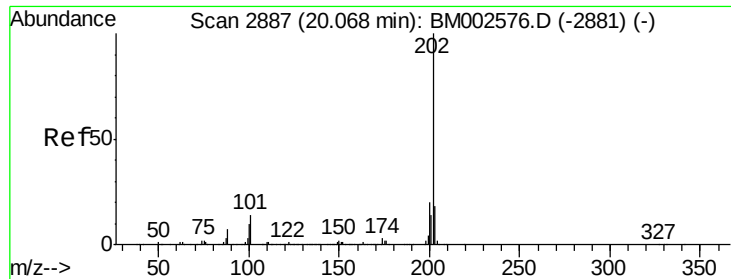


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

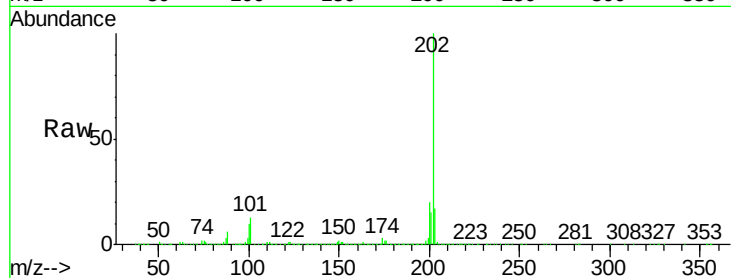




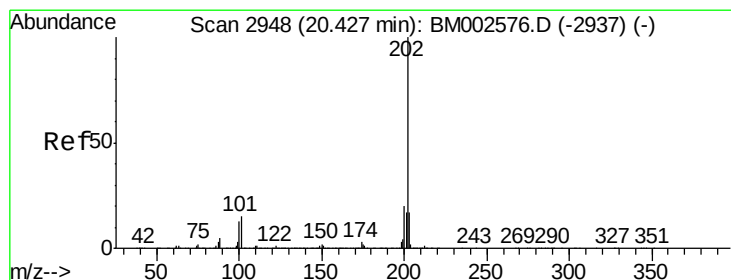
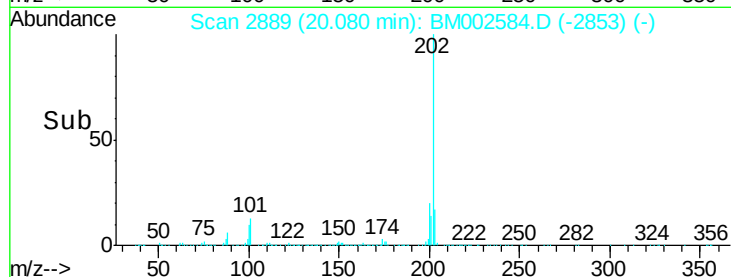
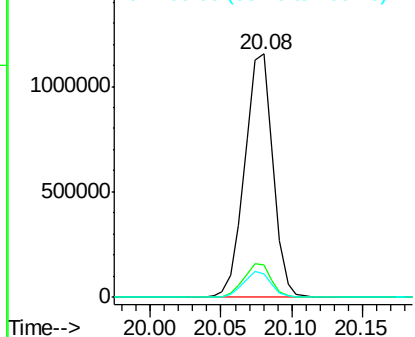
#16  
 Fluoranthene  
 Concen: 43.56 ng/ul  
 RT: 20.08 min Scan# 2889  
 Delta R.T. 0.01 min  
 Lab File: BM002584.D  
 Acq: 30 Aug 2015 02:59

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9E85

Tgt Ion:202 Resp: 1611628  
 Ion Ratio Lower Upper  
 202 100  
 101 13.3 9.7 14.5  
 100 9.7 7.4 11.2

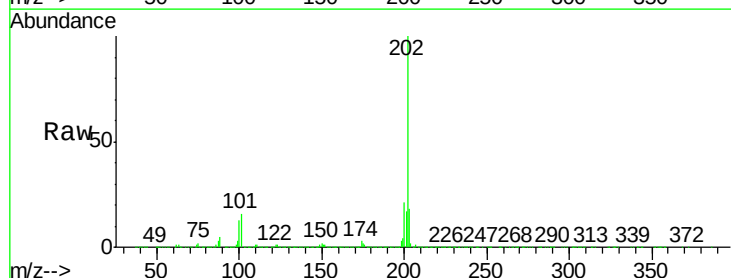


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

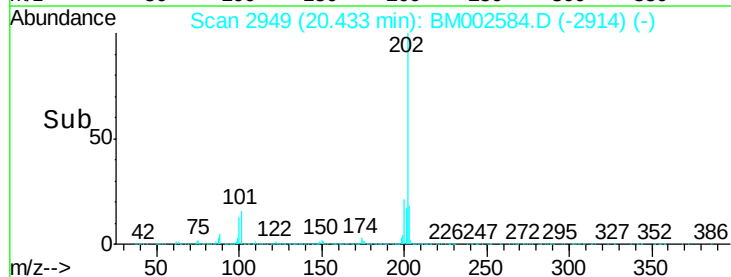
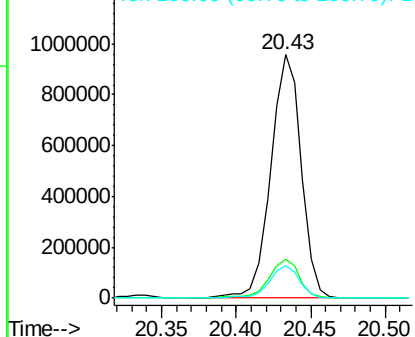


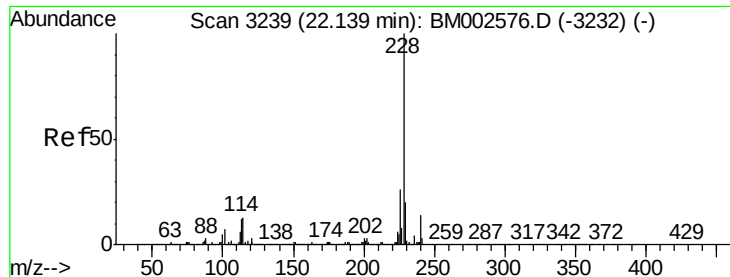
#19  
 Pyrene  
 Concen: 39.16 ng/ul  
 RT: 20.43 min Scan# 2949  
 Delta R.T. 0.01 min  
 Lab File: BM002584.D  
 Acq: 30 Aug 2015 02:59

Tgt Ion:202 Resp: 1351814  
 Ion Ratio Lower Upper  
 202 100  
 101 16.1 12.0 18.0  
 100 13.1 9.7 14.5



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





#20

Benzo(a)anthracene

Concen: 22.12 ng/ul

RT: 22.14 min Scan# 3240

Delta R.T. 0.01 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Instrument :

BNA\_M

ClientSampleId :

D9E85

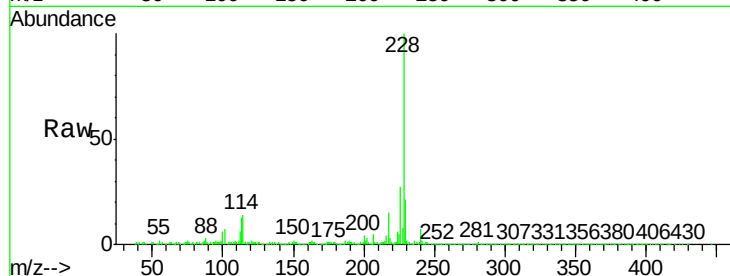
Tgt Ion:228 Resp: 779451

Ion Ratio Lower Upper

228 100

229 20.8 15.8 23.6

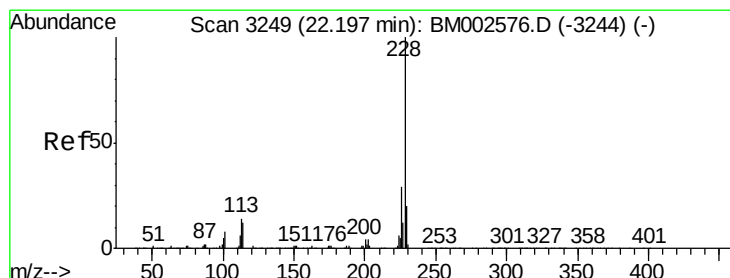
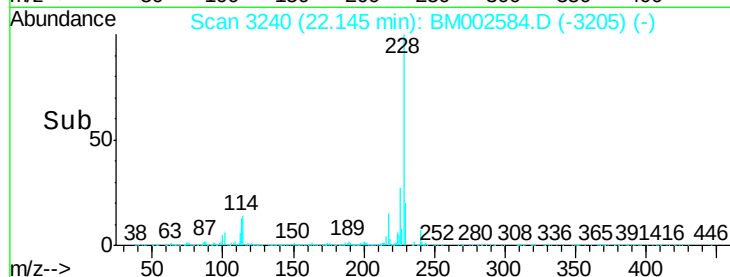
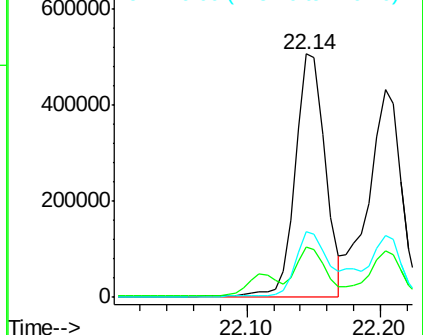
226 26.9 21.1 31.7



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



#21

Chrysene

Concen: 22.04 ng/ul

RT: 22.20 min Scan# 3250

Delta R.T. 0.01 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

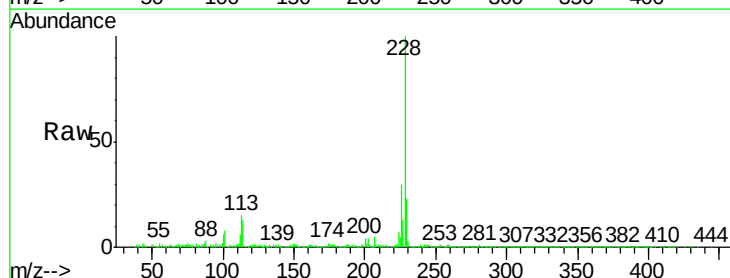
Tgt Ion:228 Resp: 726443

Ion Ratio Lower Upper

228 100

226 30.0 23.4 35.2

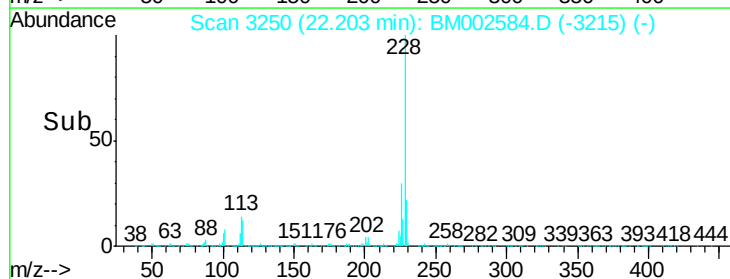
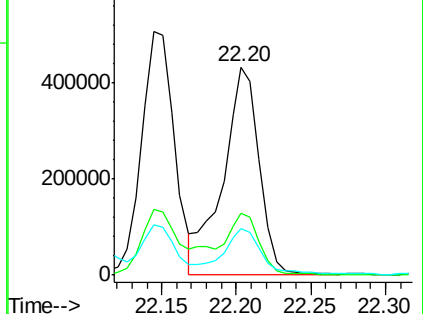
229 22.6 15.7 23.5

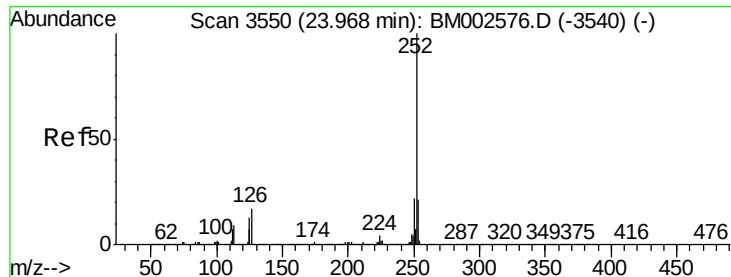


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 29.88 ng/ul

RT: 23.99 min Scan# 3553

Delta R.T. 0.02 min

Lab File: BM002584.D

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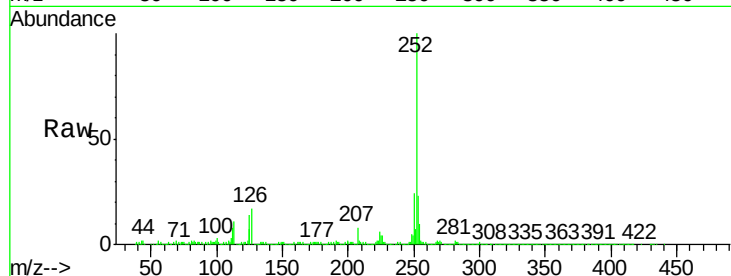
Tgt Ion:252 Resp: 1109051

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

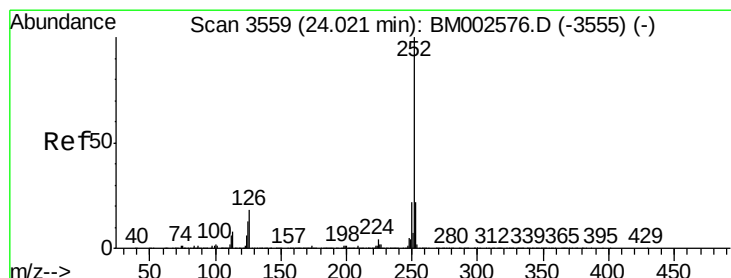
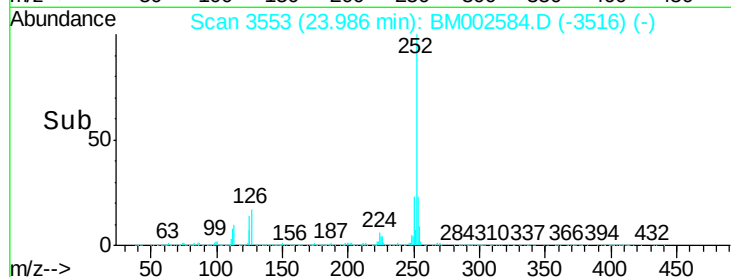
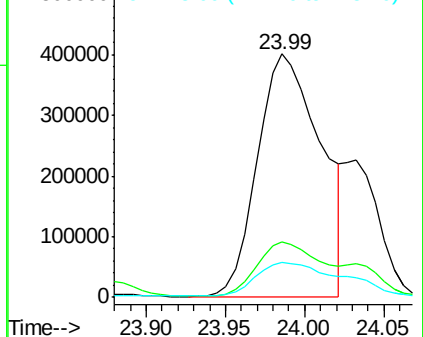
125 14.3 10.0 15.0



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



#24

Benzo(k)fluoranthene

Concen: 4.77 ng/ul

RT: 24.19 min Scan# 3587

Delta R.T. 0.16 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

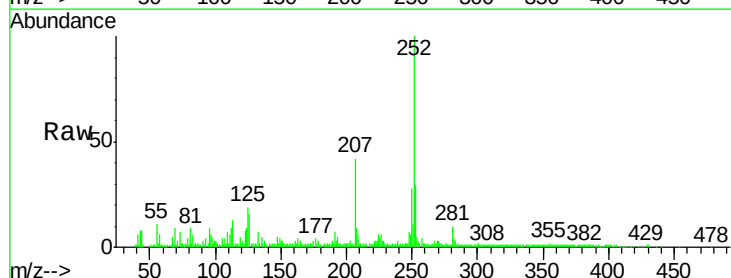
Tgt Ion:252 Resp: 167863

Ion Ratio Lower Upper

252 100

253 28.6 17.8 26.6#

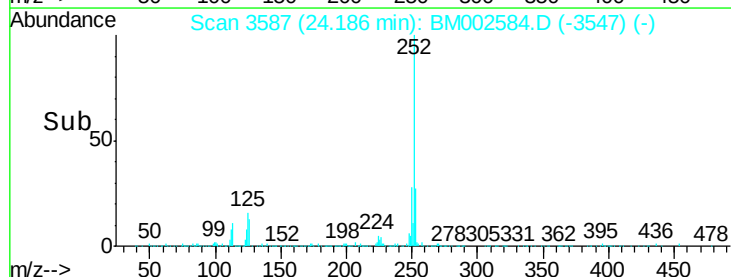
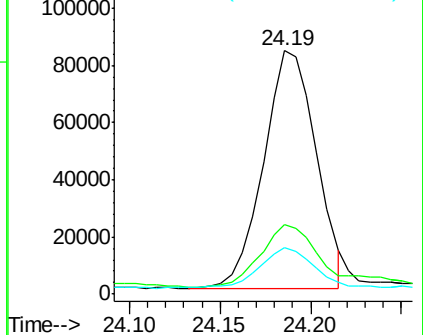
125 18.9 9.8 14.8#



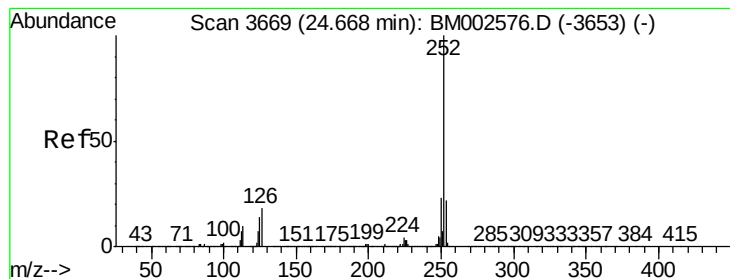
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#26

Benzo(a)pyrene

Concen: 21.06 ng/ul

RT: 24.68 min Scan# 3671

Delta R.T. 0.01 min

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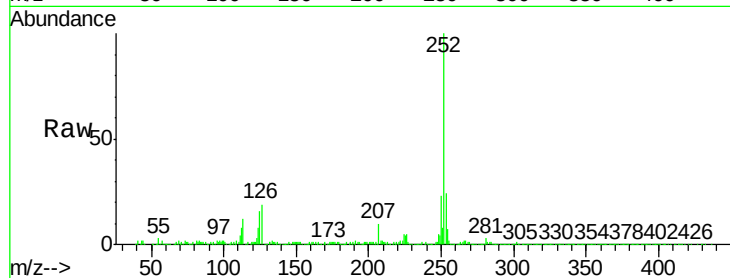
Tgt Ion:252 Resp: 746757

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

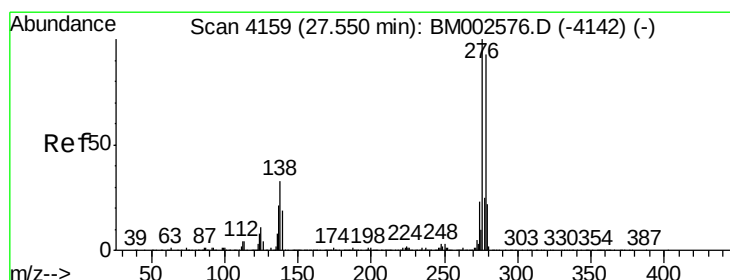
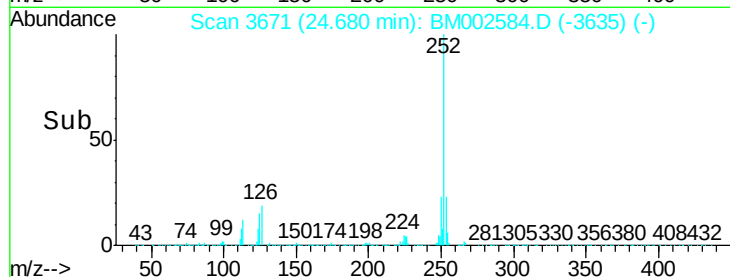
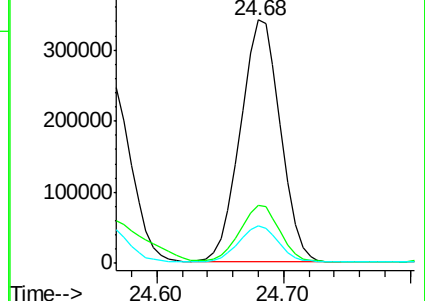
125 15.5 10.7 16.1



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 14.39 ng/ul

RT: 27.57 min Scan# 4163

Delta R.T. 0.02 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

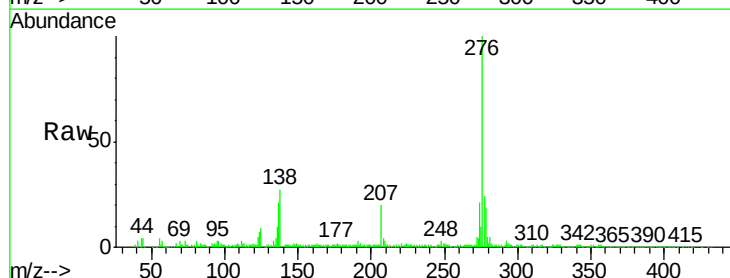
Tgt Ion:276 Resp: 586613

Ion Ratio Lower Upper

276 100

138 27.3 25.3 37.9

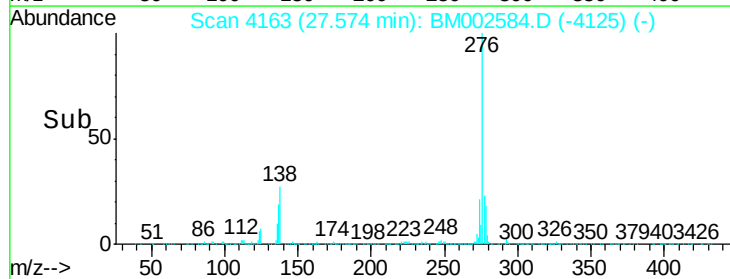
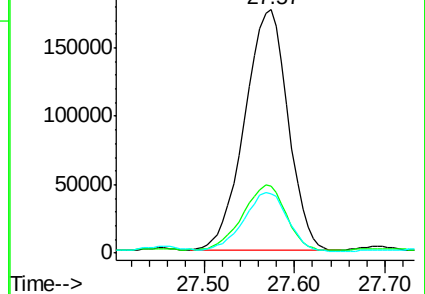
277 24.2 20.2 30.2

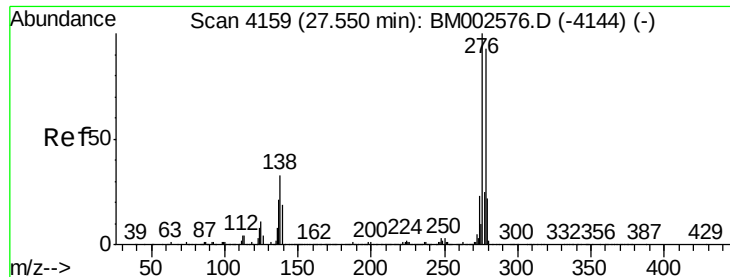


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 4.52 ng/ul

RT: 27.57 min Scan# 4162

Delta R.T. 0.02 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Instrument :

BNA\_M

ClientSampleId :

D9E85

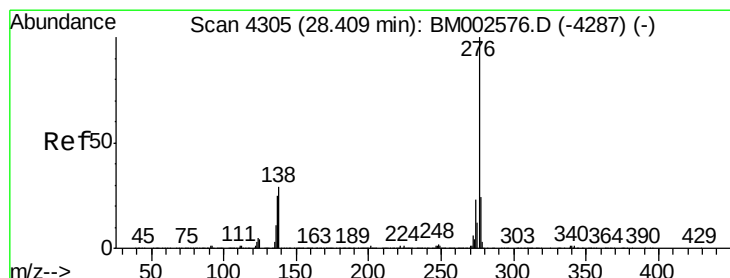
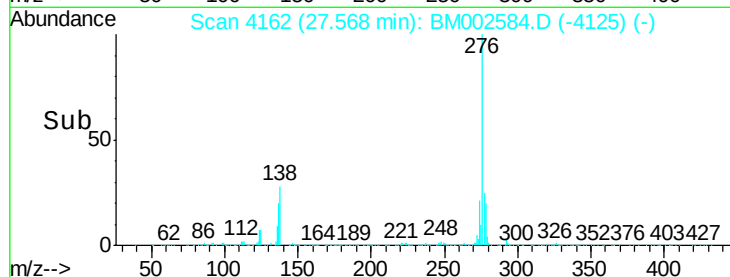
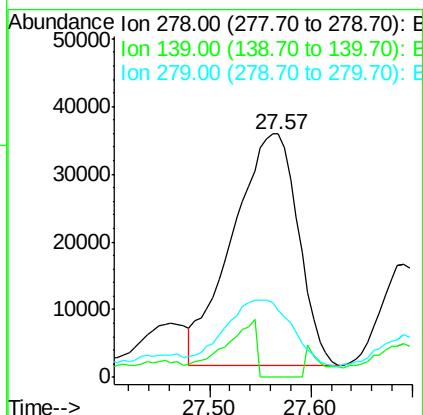
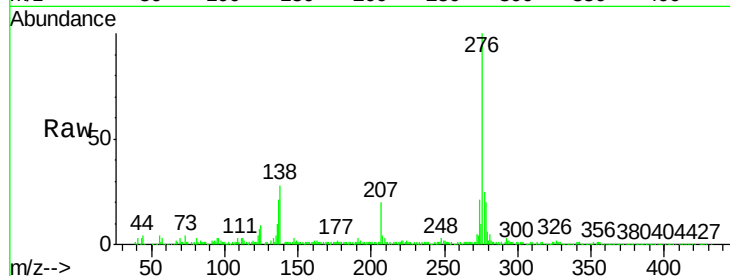
Tgt Ion: 278 Resp: 154053

Ion Ratio Lower Upper

278 100

139 0.0 16.5 24.7#

279 27.5 18.8 28.2



#29

Benzo(g,h,i)perylene

Concen: 15.49 ng/ul

RT: 28.44 min Scan# 4310

Delta R.T. 0.03 min

Lab File: BM002584.D

Acq: 30 Aug 2015 02:59

Tgt Ion: 276 Resp: 525561

Ion Ratio Lower Upper

276 100

138 29.4 21.0 31.6

277 24.0 19.2 28.8

