

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM010715\  
 Data File : BM000143.D  
 Acq On : 08 Jan 2015 01:18  
 Operator : TP/IZ  
 Sample : SSTD0.421  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.421

Quant Time: Jan 08 04:13:04 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM010715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 08 02:20:43 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 3102     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.64 | 136  | 10088    | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.47 | 164  | 5924     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.21 | 188  | 10901    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.40 | 240  | 9472     | 0.40 | ng/ul | -0.01    |
| 20) Perylene-d12          | 23.69 | 264  | 8624     | 0.40 | ng/ul | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.22 | 152  | 5178     | 0.39 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.25 | 212  | 9263     | 0.40 | ng/ul | 0.00     |

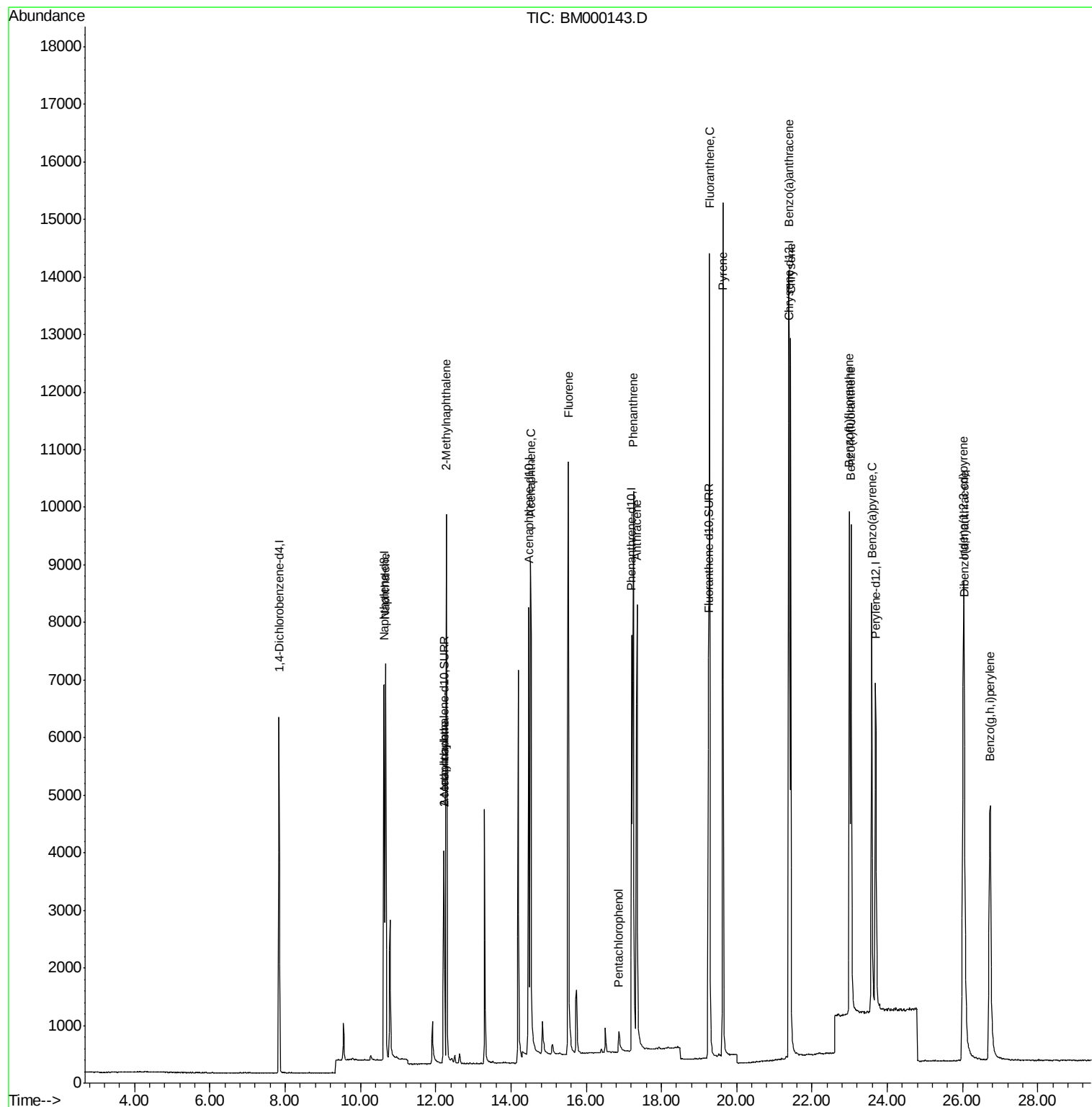
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.67 | 128  | 10560    | 0.39 | ng/ul  | 97     |
| 5) 2-Methylnaphthalene     | 12.28 | 142  | 6980     | 0.39 | ng/ul  | 100    |
| 7) Acenaphthylene          | 12.22 | 152  | 5178     | 0.39 | ng/ul  | 99     |
| 8) Acenaphthene            | 14.52 | 153  | 7114     | 0.39 | ng/ul# | 83     |
| 9) Fluorene                | 15.52 | 166  | 8459     | 0.40 | ng/ul  | 96     |
| 11) Pentachlorophenol      | 16.87 | 266  | 505      | 0.30 | ng/ul  | 94     |
| 12) Phenanthrene           | 17.26 | 178  | 12994    | 0.39 | ng/ul  | 99     |
| 13) Anthracene             | 17.35 | 178  | 12511    | 0.39 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.27 | 202  | 14512    | 0.39 | ng/ul  | 95     |
| 17) Pyrene                 | 19.63 | 202  | 14903    | 0.38 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.39 | 228  | 12001    | 0.38 | ng/ul  | 96     |
| 19) Chrysene               | 21.43 | 228  | 13494    | 0.40 | ng/ul  | 95     |
| 21) Benzo(b)fluoranthene   | 22.99 | 252  | 13766    | 0.40 | ng/ul  | 99     |
| 22) Benzo(k)fluoranthene   | 23.04 | 252  | 11658    | 0.36 | ng/ul  | 98     |
| 23) Benzo(a)pyrene         | 23.58 | 252  | 11806    | 0.38 | ng/ul  | 99     |
| 24) Indeno(1,2,3-cd)pyrene | 26.02 | 276  | 13679    | 0.39 | ng/ul  | 99     |
| 25) Dibenzo(a,h)anthracene | 26.05 | 278  | 10959    | 0.39 | ng/ul  | 99     |
| 26) Benzo(g,h,i)perylene   | 26.73 | 276  | 12138    | 0.39 | ng/ul  | 98     |

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

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QLast Update : Thu Jan 08 02:20:43 2015  
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#3

Naphthalene

Concen: 0.39 ng/ul

RT: 10.67 min Scan# 1352

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

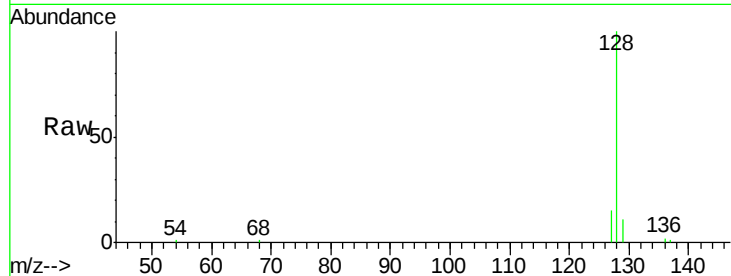
Tgt Ion:128 Resp: 10560

Ion Ratio Lower Upper

128 100

129 11.0 9.5 14.3

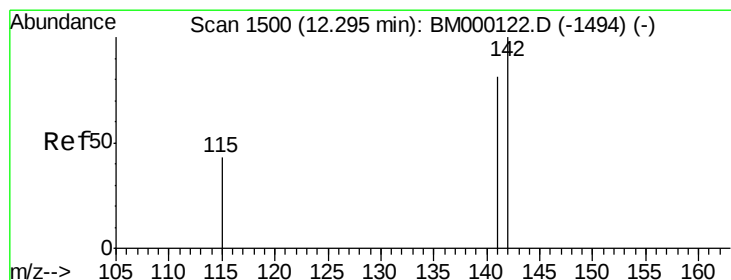
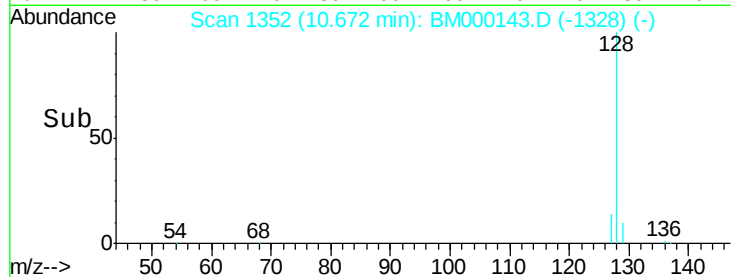
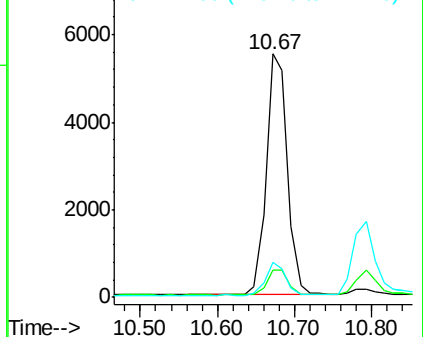
127 14.5 10.4 15.6



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



#5

2-Methylnaphthalene

Concen: 0.39 ng/ul

RT: 12.28 min Scan# 1499

Delta R.T. -0.01 min

Lab File: BM000143.D

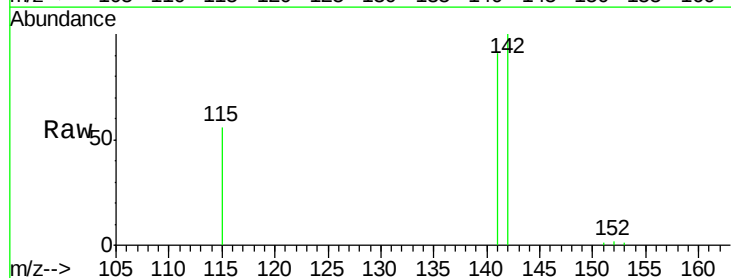
Acq: 08 Jan 2015 01:18

Tgt Ion:142 Resp: 6980

Ion Ratio Lower Upper

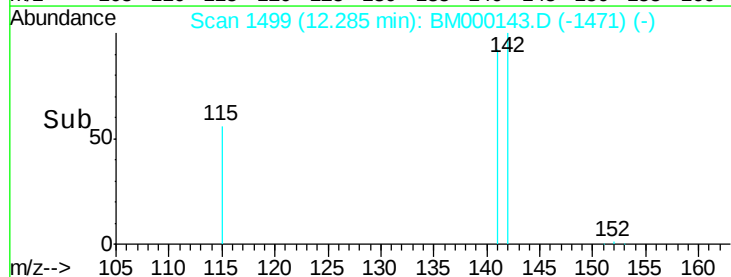
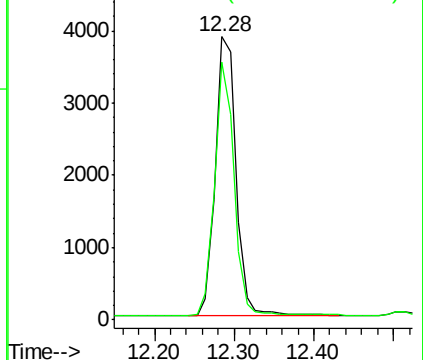
142 100

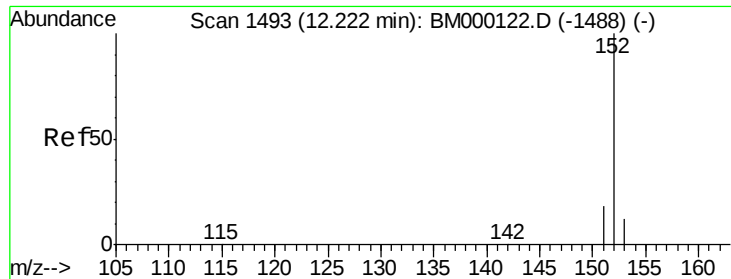
141 86.0 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.39 ng/ul

RT: 12.22 min Scan# 1493

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

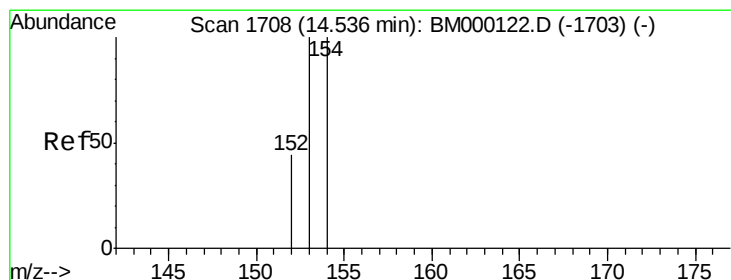
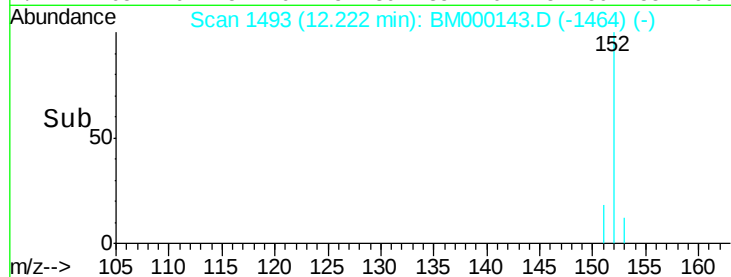
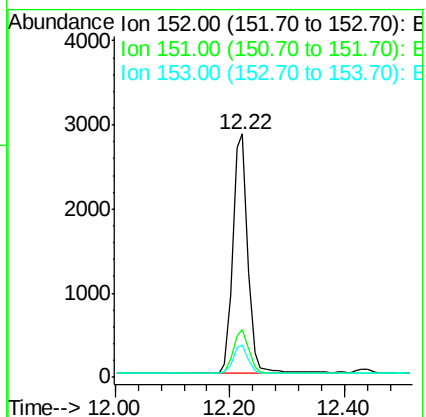
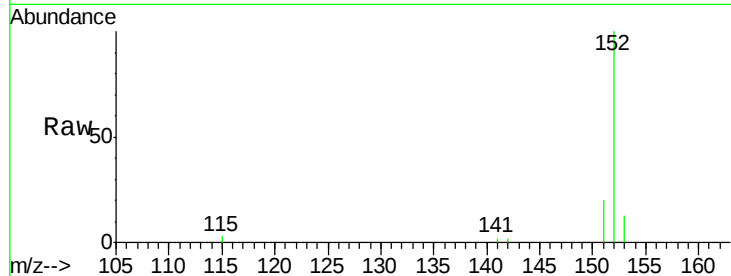
Tgt Ion:152 Resp: 5178

Ion Ratio Lower Upper

152 100

151 19.6 15.4 23.2

153 13.2 11.0 16.4



#8

Acenaphthene

Concen: 0.39 ng/ul

RT: 14.52 min Scan# 1707

Delta R.T. -0.02 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

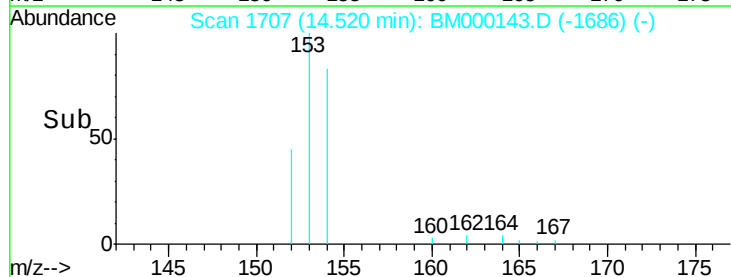
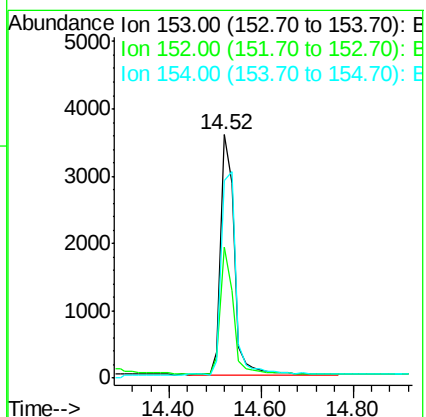
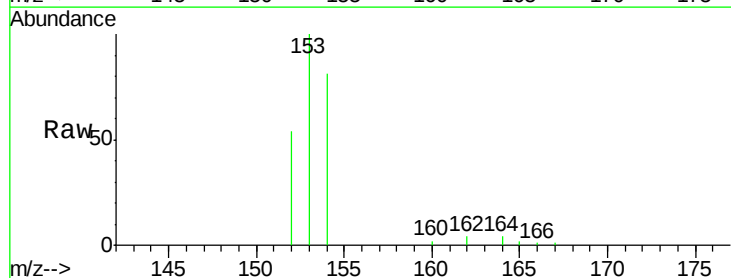
Tgt Ion:153 Resp: 7114

Ion Ratio Lower Upper

153 100

152 54.0 35.8 53.6#

154 81.3 79.9 119.9





#9

Fluorene

Concen: 0.40 ng/ul

RT: 15.52 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

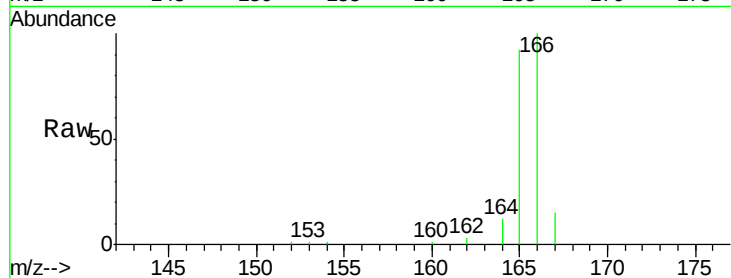
Tgt Ion:166 Resp: 8459

Ion Ratio Lower Upper

166 100

165 91.7 77.0 115.4

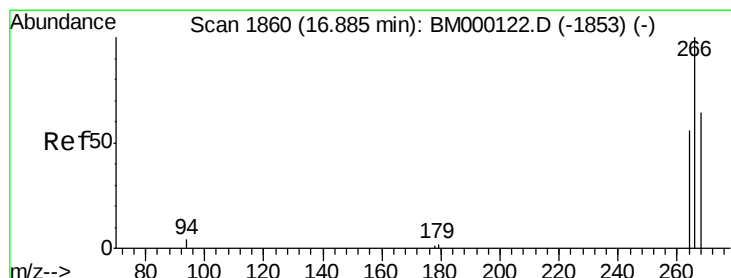
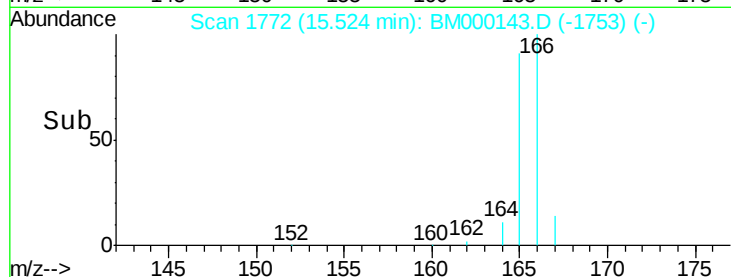
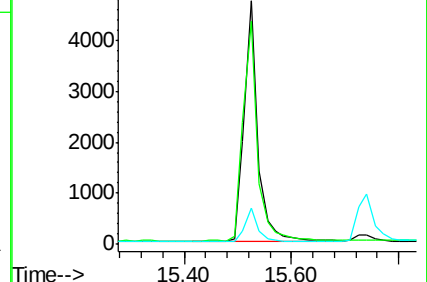
167 14.7 11.0 16.6



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: 0.30 ng/ul

RT: 16.87 min Scan# 1859

Delta R.T. -0.02 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

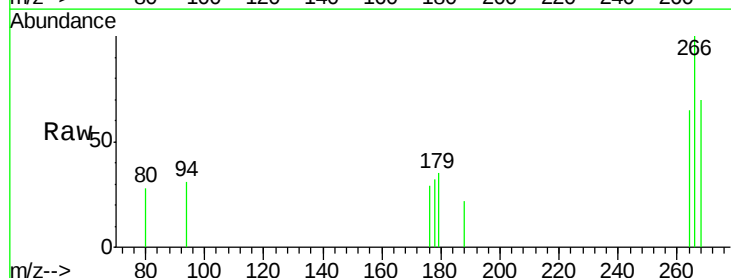
Tgt Ion:266 Resp: 505

Ion Ratio Lower Upper

266 100

264 62.8 53.9 80.9

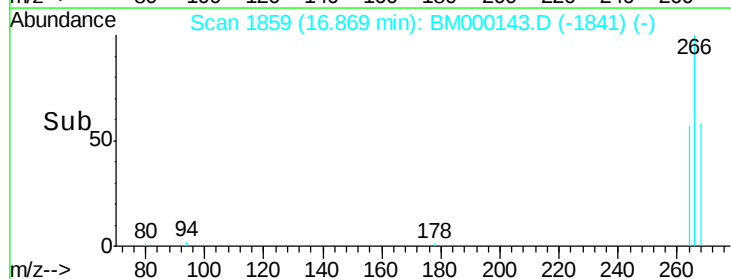
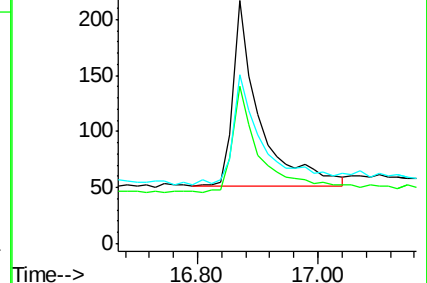
268 66.1 49.2 73.8

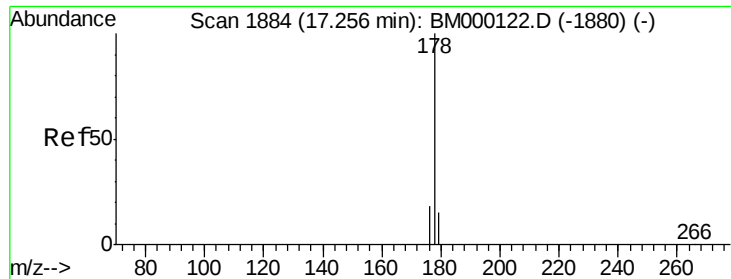


Abundance Ion 266.00 (265.70 to 266.70): E

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: 17.26 min Scan# 1884

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

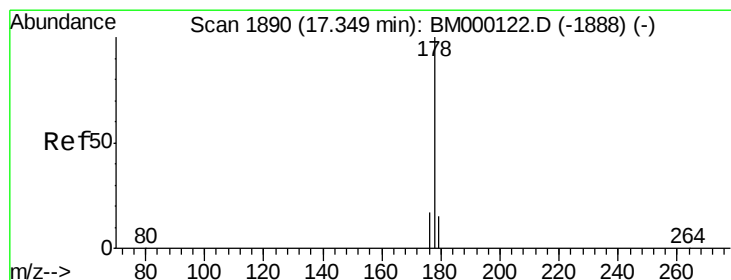
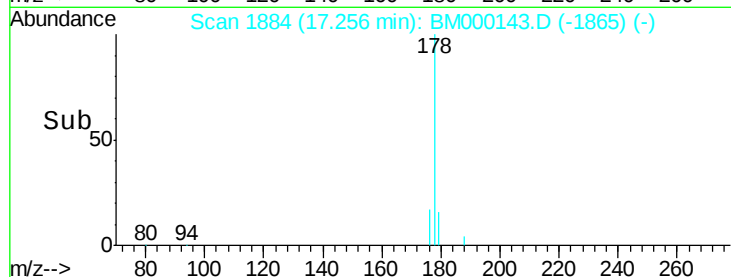
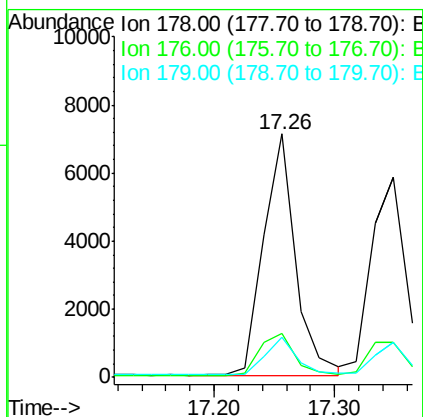
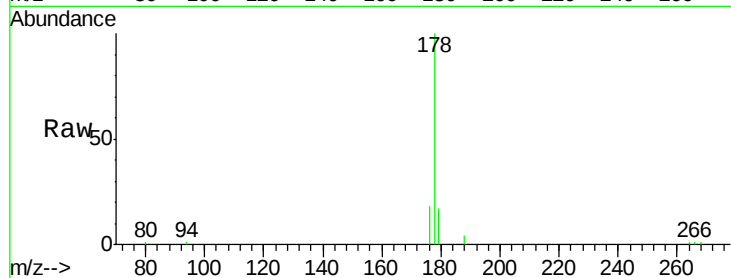
Tgt Ion:178 Resp: 12994

Ion Ratio Lower Upper

178 100

176 18.2 15.1 22.7

179 16.5 13.0 19.4



#13

Anthracene

Concen: 0.39 ng/ul

RT: 17.35 min Scan# 1890

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

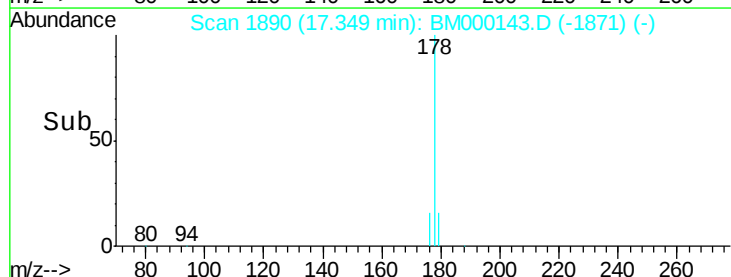
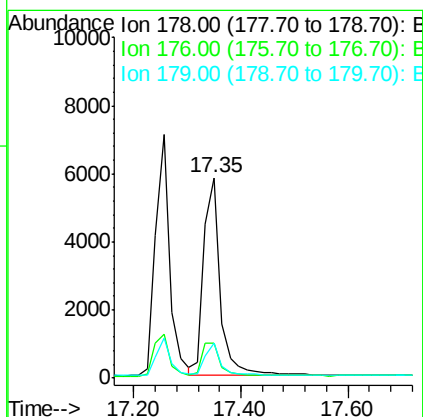
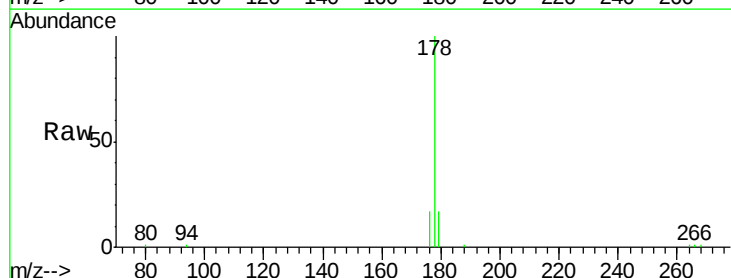
Tgt Ion:178 Resp: 12511

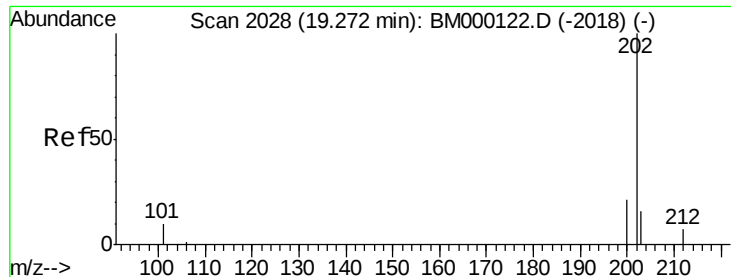
Ion Ratio Lower Upper

178 100

176 17.2 14.6 21.8

179 17.3 13.1 19.7





#15

Fluoranthene

Concen: 0.39 ng/u1

RT: 19.27 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

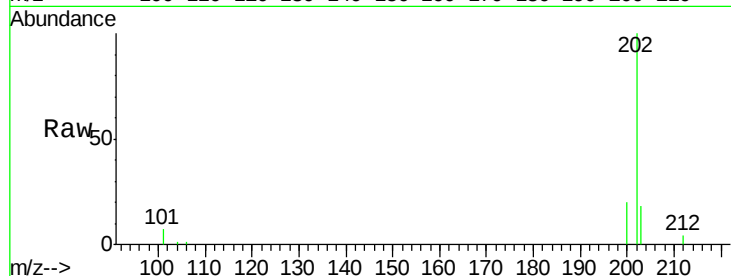
Tgt Ion:202 Resp: 14512

Ion Ratio Lower Upper

202 100

101 7.5 0.0 30.5

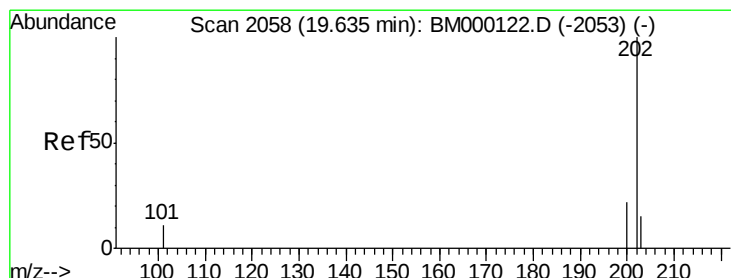
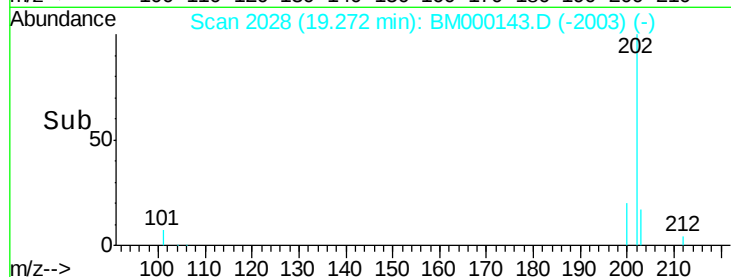
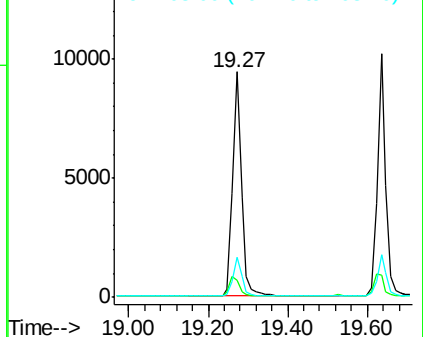
203 17.8 0.0 36.6



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: 0.38 ng/u1

RT: 19.63 min Scan# 2058

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

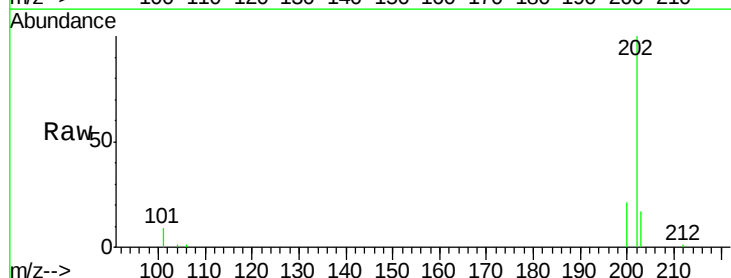
Tgt Ion:202 Resp: 14903

Ion Ratio Lower Upper

202 100

200 20.8 17.9 26.9

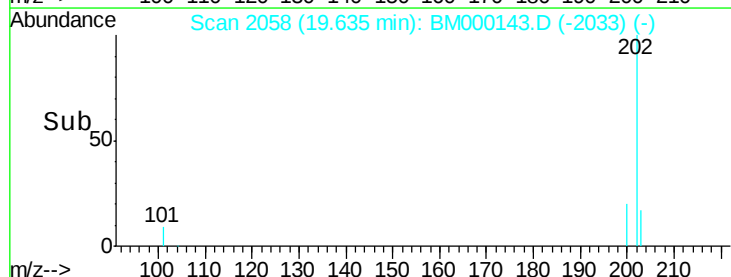
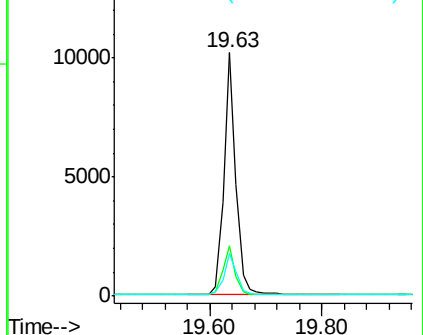
203 17.3 12.8 19.2



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: 0.38 ng/ul

RT: 21.39 min Scan# 2221

Delta R.T. -0.00 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

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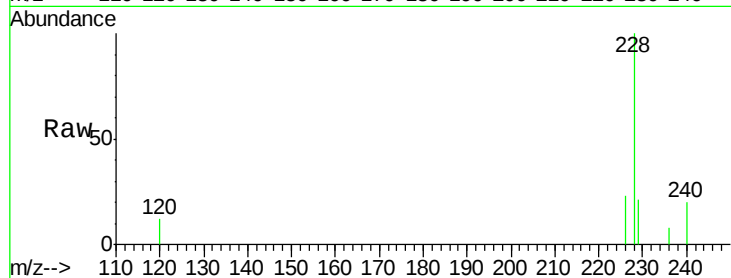
Tgt Ion:228 Resp: 12001

Ion Ratio Lower Upper

228 100

226 23.2 20.8 31.2

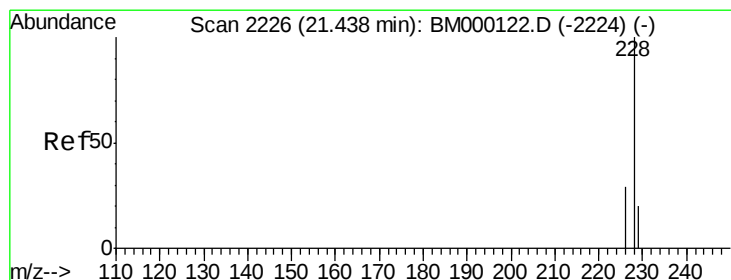
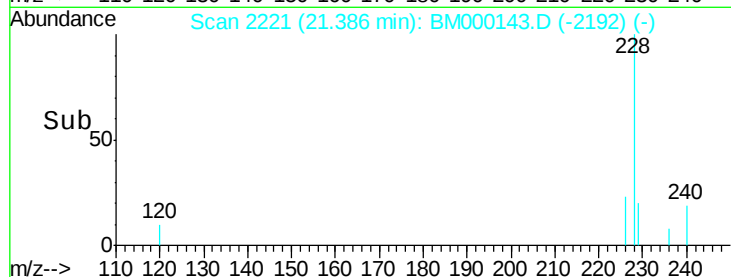
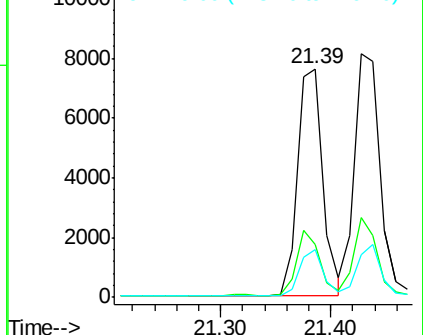
229 20.8 15.5 23.3



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: 0.40 ng/ul

RT: 21.43 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

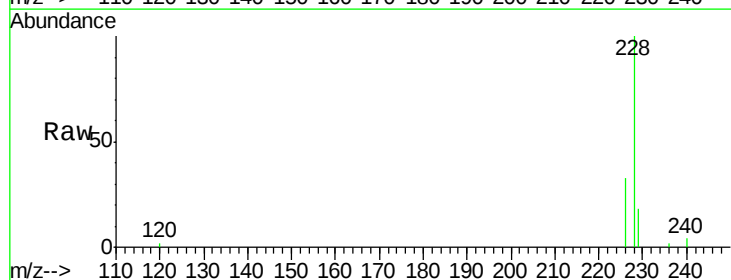
Tgt Ion:228 Resp: 13494

Ion Ratio Lower Upper

228 100

226 32.8 23.8 35.6

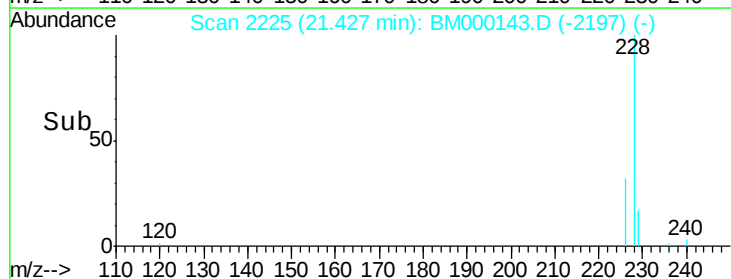
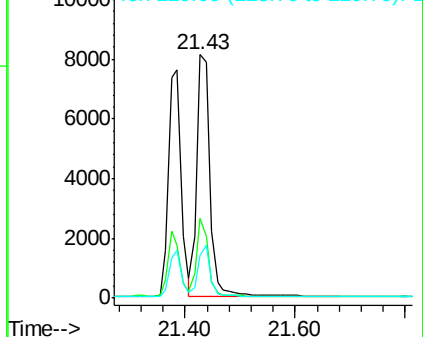
229 17.7 15.8 23.8



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: 0.40 ng/u1

RT: 22.99 min Scan# 2375

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

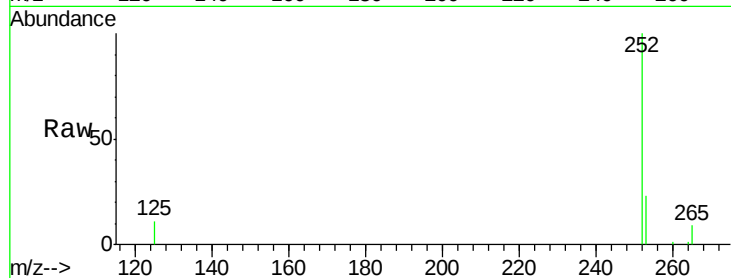
Tgt Ion:252 Resp: 13766

Ion Ratio Lower Upper

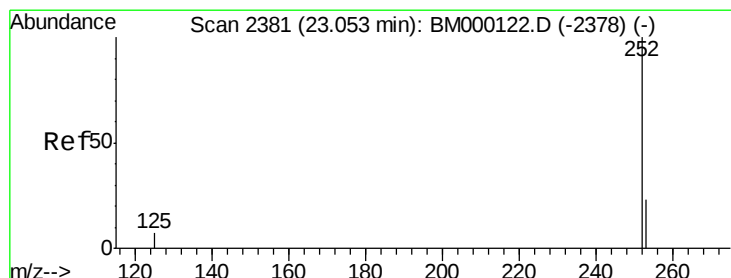
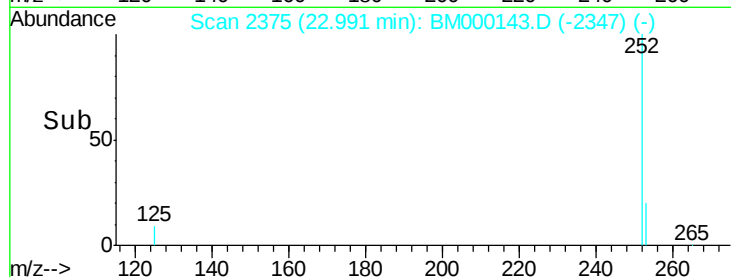
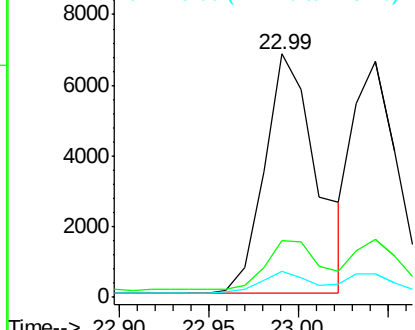
252 100

253 23.3 0.0 48.2

125 10.6 0.0 21.6



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



#22

Benzo(k)fluoranthene

Concen: 0.36 ng/u1

RT: 23.04 min Scan# 2380

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

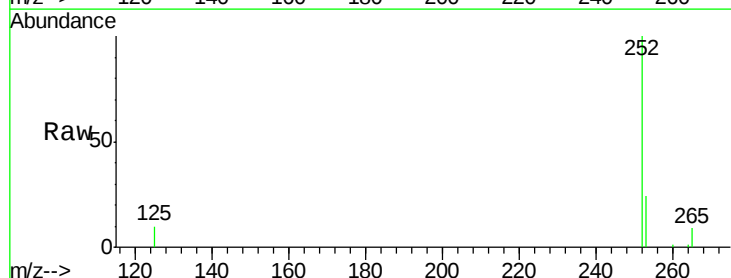
Tgt Ion:252 Resp: 11658

Ion Ratio Lower Upper

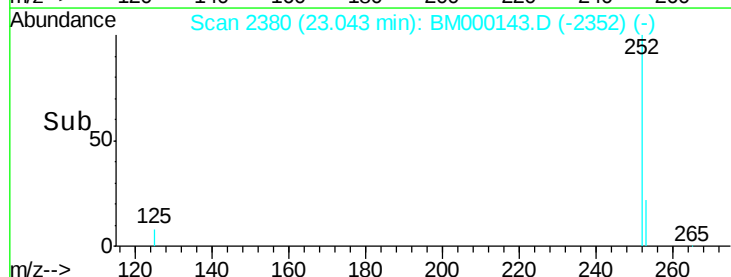
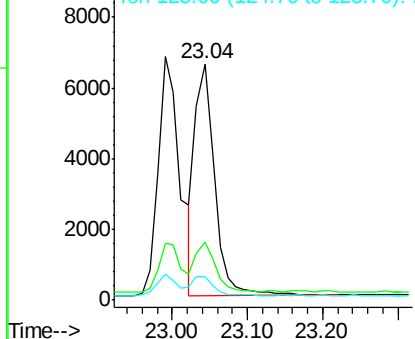
252 100

253 24.5 20.5 30.7

125 9.8 7.8 11.8



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





#23

Benzo(a)pyrene

Concen: 0.38 ng/ul

RT: 23.58 min Scan# 2432

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

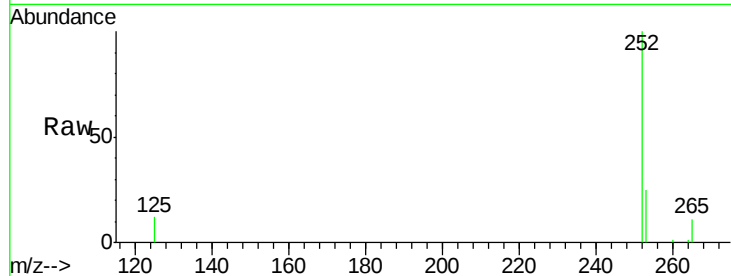
Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

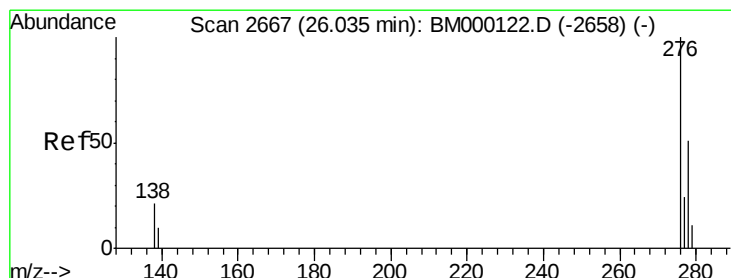
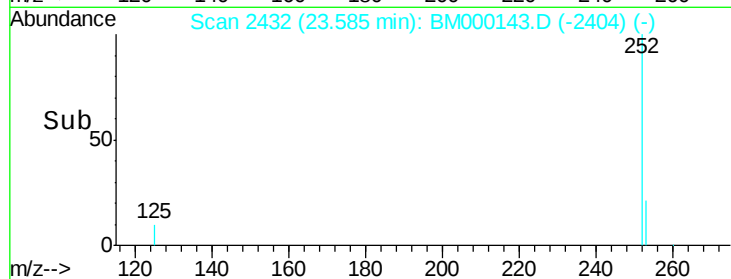
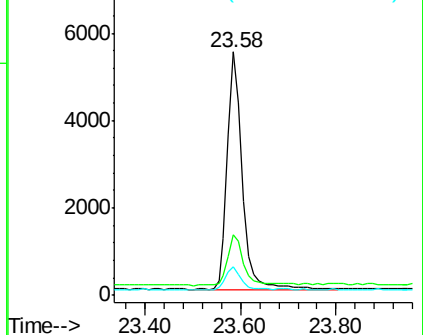
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 11806 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 25.0  | 19.8  | 29.6  |
| 125      | 11.7  | 9.2   | 13.8  |



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.39 ng/ul

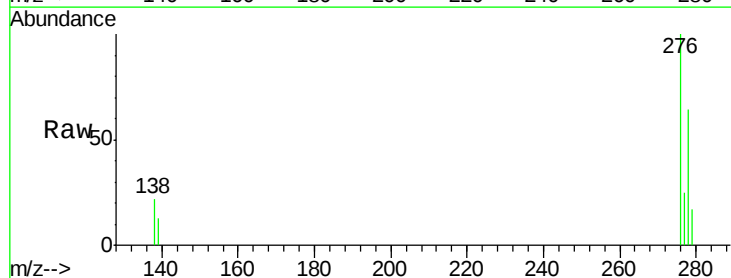
RT: 26.02 min Scan# 2666

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

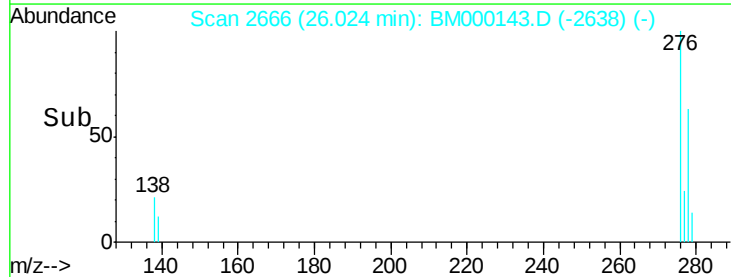
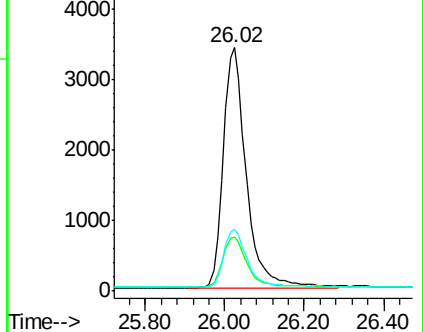
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 13679 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 21.3  | 17.6  | 26.4  |
| 277      | 24.2  | 19.9  | 29.9  |

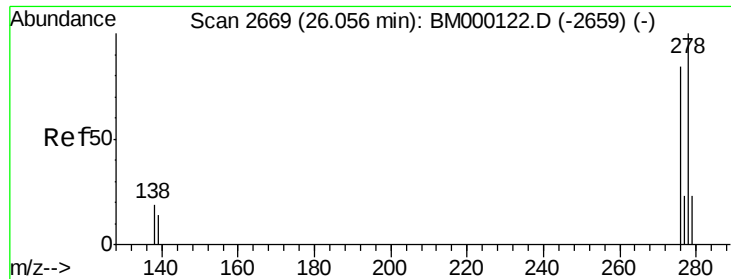


Abundance Ion 276.00 (275.70 to 276.70): E

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: 26.05 min Scan# 2668

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

Instrument :

BNA\_M

ClientSampleId :

SSTD0.421

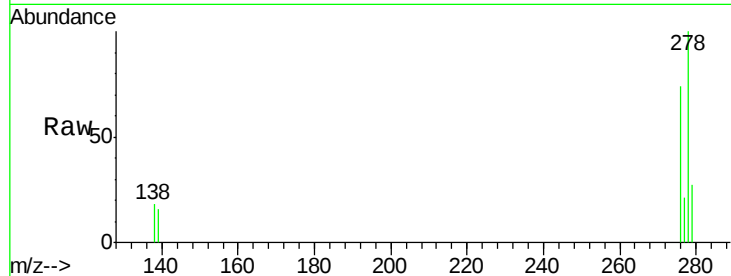
Tgt Ion:278 Resp: 10959

Ion Ratio Lower Upper

278 100

139 15.6 12.6 18.8

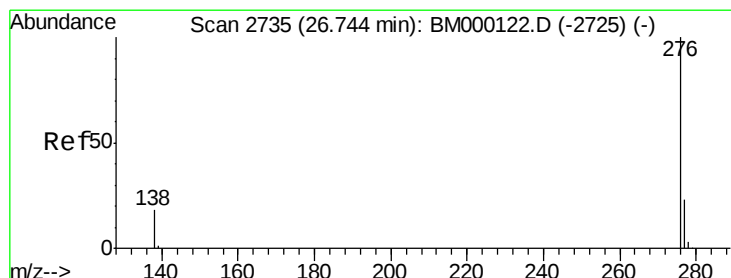
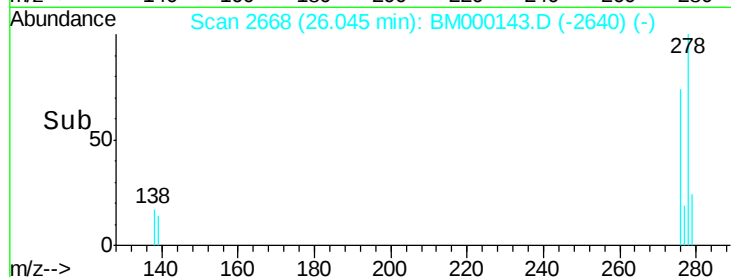
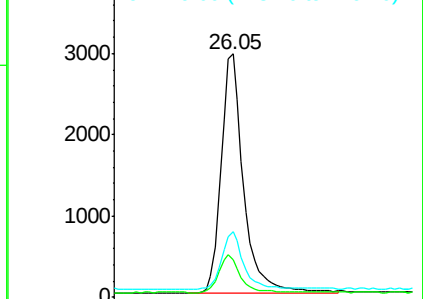
279 26.8 20.6 30.8



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



#26

Benzo(g,h,i)perylene

Concen: 0.39 ng/ul

RT: 26.73 min Scan# 2734

Delta R.T. -0.01 min

Lab File: BM000143.D

Acq: 08 Jan 2015 01:18

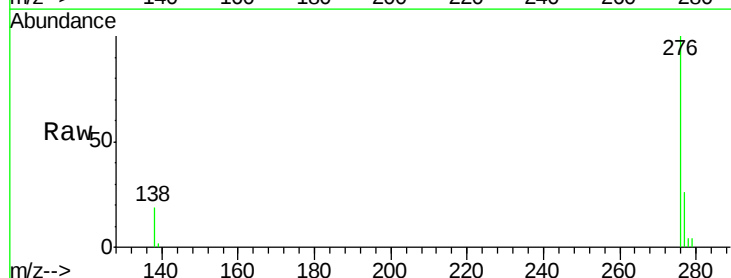
Tgt Ion:276 Resp: 12138

Ion Ratio Lower Upper

276 100

277 25.5 20.0 30.0

138 18.6 15.7 23.5



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

