

Data Path : Z:\HPCHEM1\BNA M\DATA\BM111915\  
 Data File : BM003195.D  
 Acq On : 19 Nov 2015 18:17  
 Operator : UM/IZ  
 Sample : G4323-05  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4HT6

Quant Time: Nov 20 03:40:18 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 20 03:16:26 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 15359    | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.53 | 136  | 57275    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.38 | 164  | 29242    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.23 | 188  | 2736801  | 0.40 | ng/ul | 0.10     |
| 18) Chrysene-d12          | 21.32 | 240  | 53474    | 0.40 | ng/ul | -0.01    |
| 22) Perylene-d12          | 23.44 | 264  | 2647526  | 0.40 | ng/ul | -0.15    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.20  | 96   | 66891    | 4.08 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.12 | 152  | 16155    | 0.21 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 19.17 | 212  | 29830    | 0.00 | ng/ul | 0.00     |

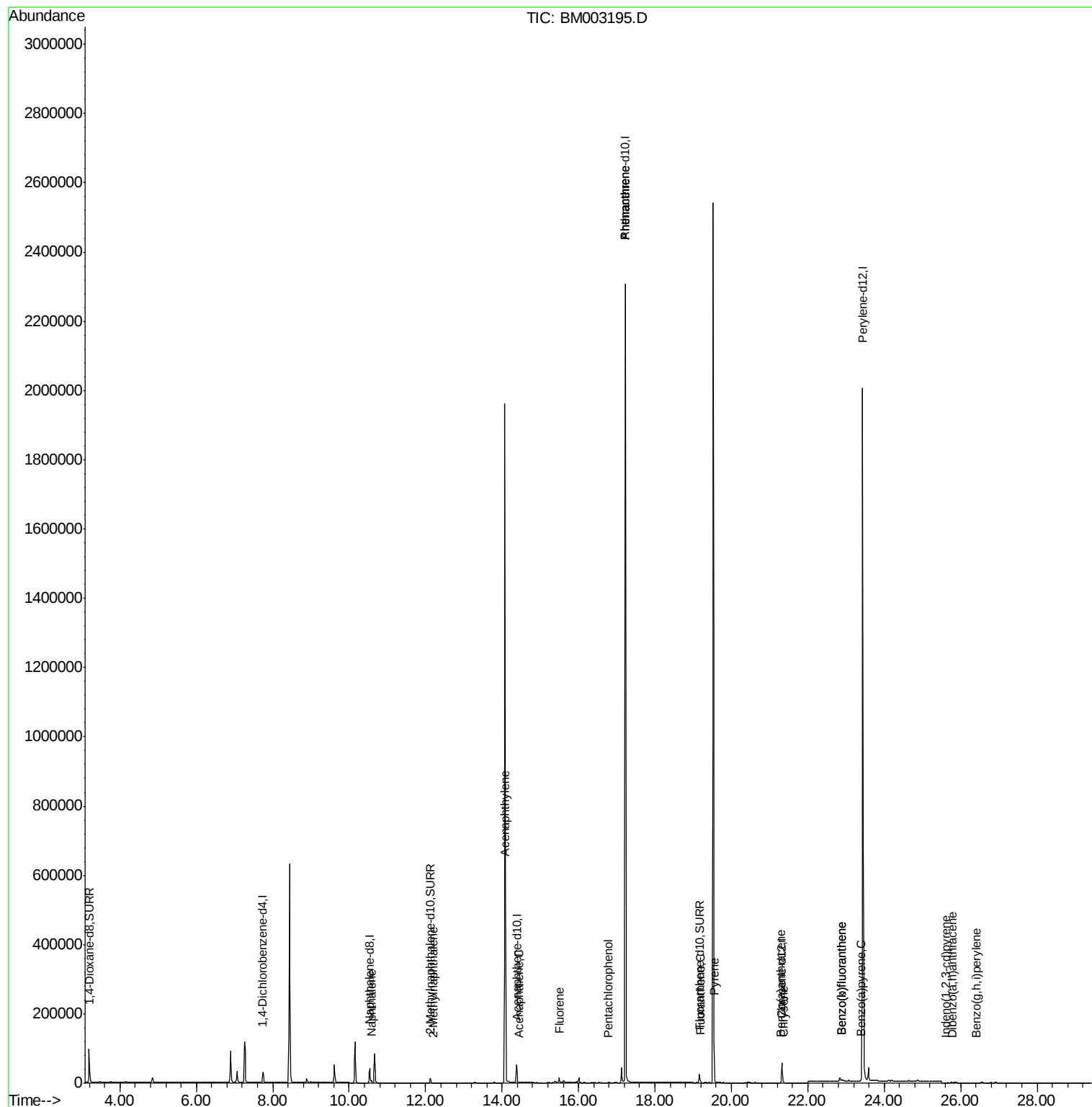
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 5) Naphthalene             | 10.58 | 128  | 9062     | 0.06 | ng/ul# | 95     |
| 7) 2-Methylnaphthalene     | 12.19 | 142  | 250      | 0.00 | ng/ul# | 100    |
| 9) Acenaphthylene          | 14.09 | 152  | 778      | 0.01 | ng/ul# | 30     |
| 10) Acenaphthene           | 14.45 | 153  | 275      | 0.00 | ng/ul# | 79     |
| 11) Fluorene               | 15.49 | 166  | 231      | 0.00 | ng/ul# | 1      |
| 13) Pentachlorophenol      | 16.78 | 266  | 580      | 0.00 | ng/ul# | 25     |
| 14) Phenanthrene           | 17.23 | 178  | 1959     | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 17.23 | 178  | 1902     | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 19.19 | 202  | 6681     | 0.00 | ng/ul  | 89     |
| 19) Pyrene                 | 19.55 | 202  | 10436    | 0.06 | ng/ul# | 82     |
| 20) Benzo(a)anthracene     | 21.30 | 228  | 3141     | 0.02 | ng/ul# | 85     |
| 21) Chrysene               | 21.35 | 228  | 3140     | 0.02 | ng/ul# | 87     |
| 23) Benzo(b)fluoranthene   | 22.90 | 252  | 3990     | 0.00 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 22.90 | 252  | 6119     | 0.00 | ng/ul# | 2      |
| 25) Benzo(a)pyrene         | 23.39 | 252  | 2406     | 0.00 | ng/ul# | 1      |
| 26) Indeno(1,2,3-cd)pyrene | 25.62 | 276  | 220      | 0.00 | ng/ul# | 100    |
| 27) Dibenzo(a,h)anthracene | 25.77 | 278  | 89       | 0.00 | ng/ul# | 1      |
| 28) Benzo(a,h,i)perylene   | 26.40 | 276  | 34       | 0.00 | ng/ul# | 1      |

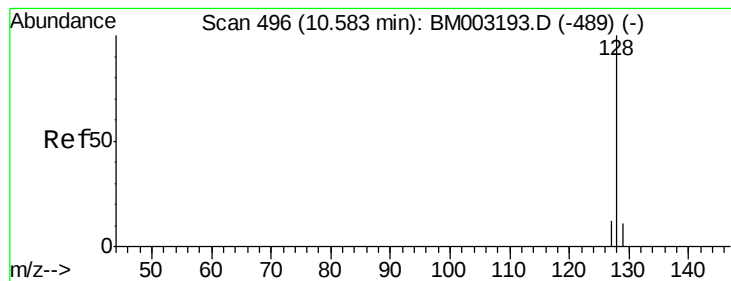
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 20 03:40:18 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
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QLast Update : Fri Nov 20 03:16:26 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.06 ng/ul

RT: 10.58 min Scan# 496

Delta R.T. -0.00 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

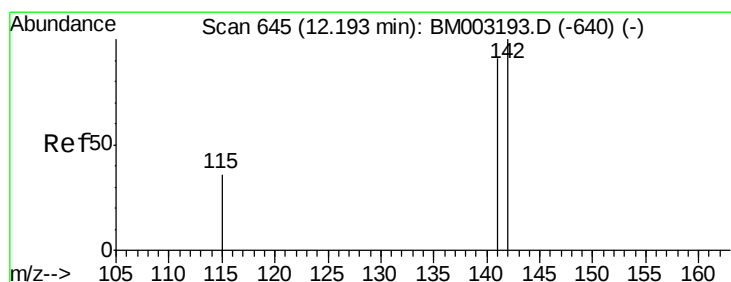
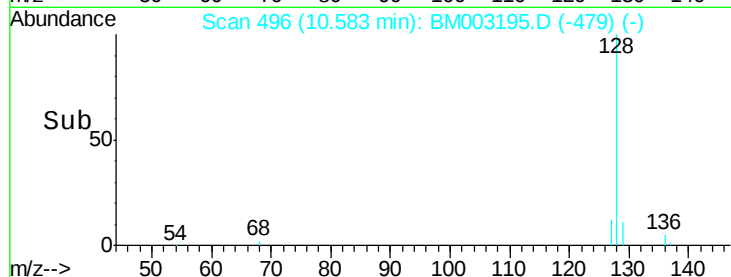
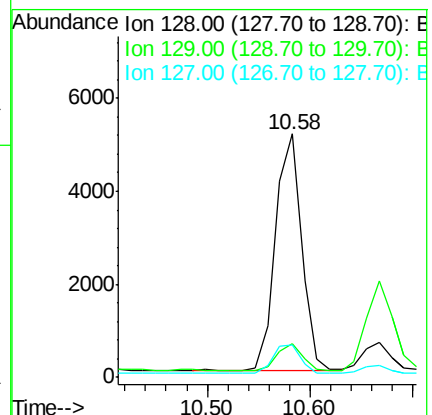
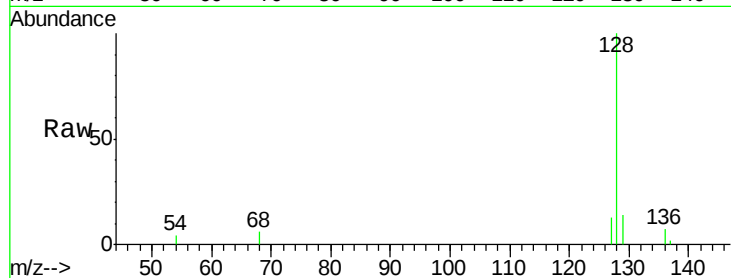
Tot Ion:128 Resp: 9062

Ion Ratio Lower Upper

128 100

129 13.7 9.0 13.6#

127 13.1 9.6 14.4



#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.19 min Scan# 645

Delta R.T. -0.00 min

Lab File: BM003195.D

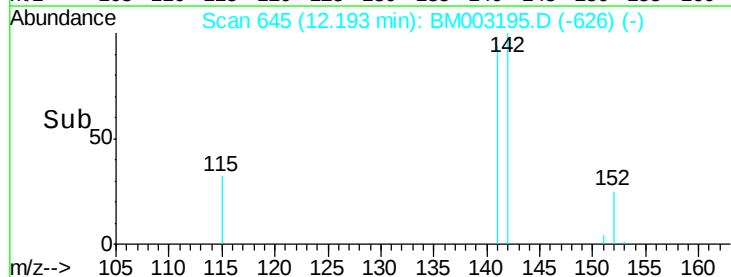
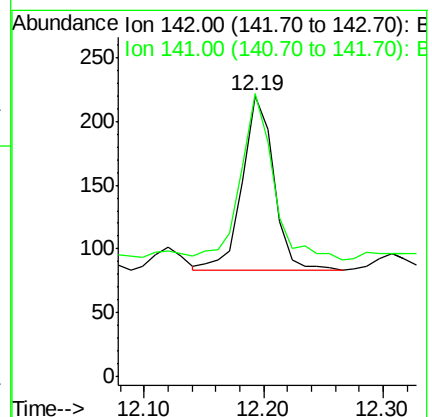
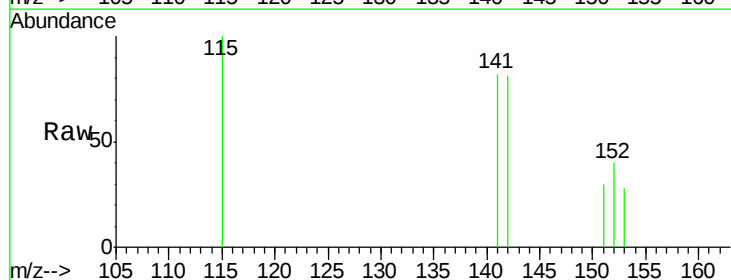
Acq: 19 Nov 2015 18:17

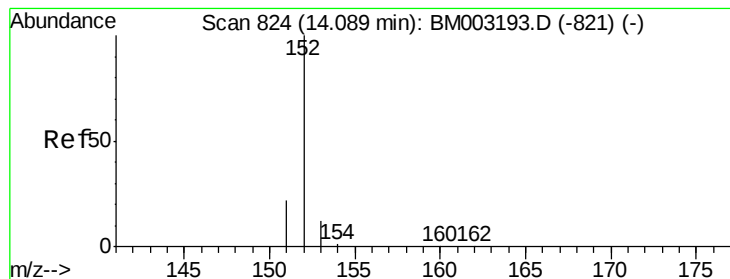
Tgt Ion:142 Resp: 250

Ion Ratio Lower Upper

142 100

141 99.6 0.0 0.0#





#9

Acenaphthylene

Concen: 0.01 ng/ul

RT: 14.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampled :

A4HT6

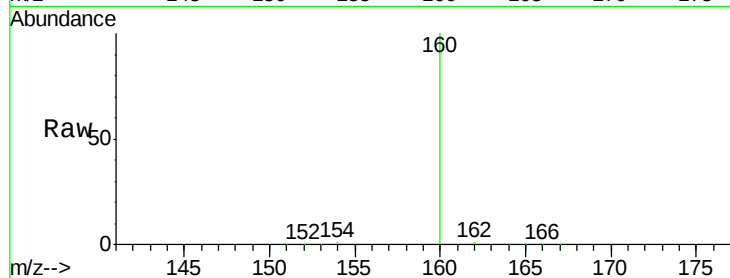
Tot Ion:152 Resp: 778

Ion Ratio Lower Upper

152 100

151 43.6 17.6 26.4#

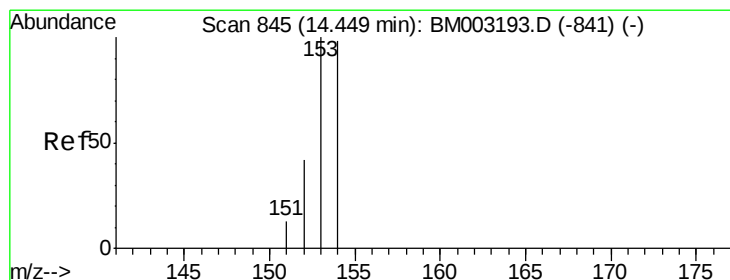
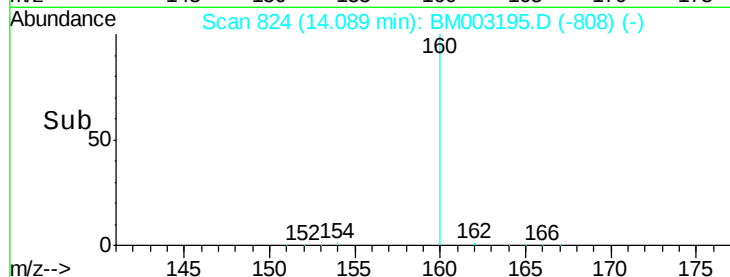
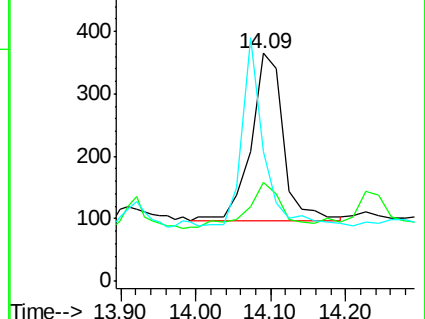
153 56.7 9.7 14.5#



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



#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.45 min Scan# 845

Delta R.T. -0.00 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

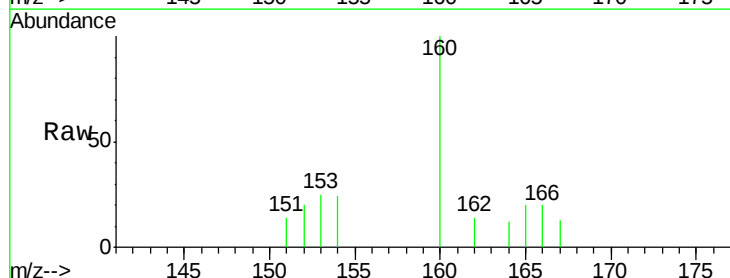
Tgt Ion:153 Resp: 275

Ion Ratio Lower Upper

153 100

152 78.9 33.9 50.9#

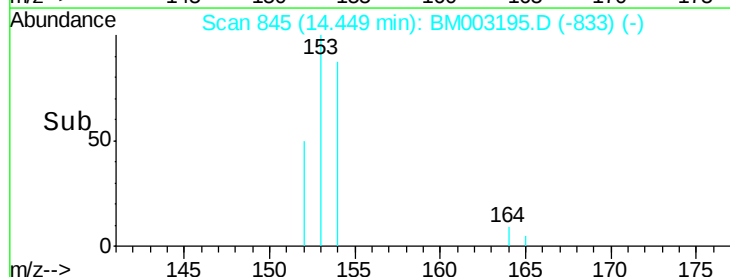
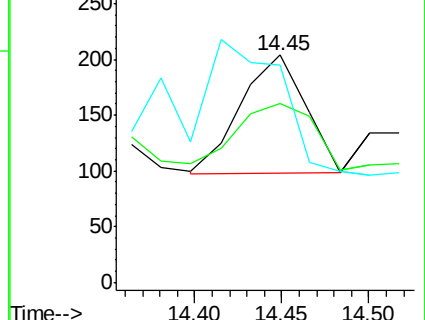
154 95.6 80.6 121.0

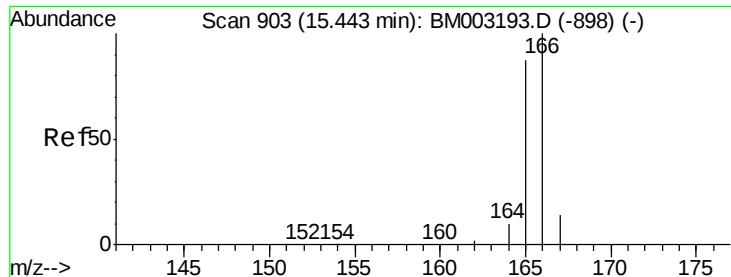


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 0.00 ng/ul

RT: 15.49 min Scan# 906

Delta R.T. 0.05 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

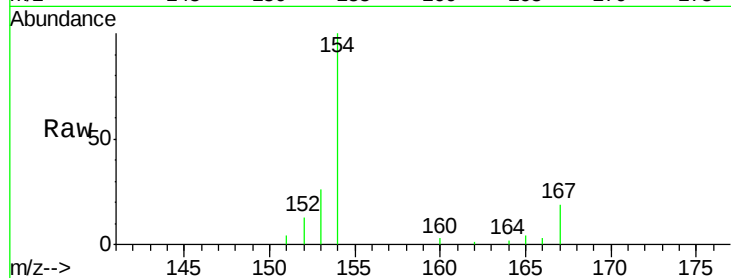
Tot Ion:166 Resp: 231

Ion Ratio Lower Upper

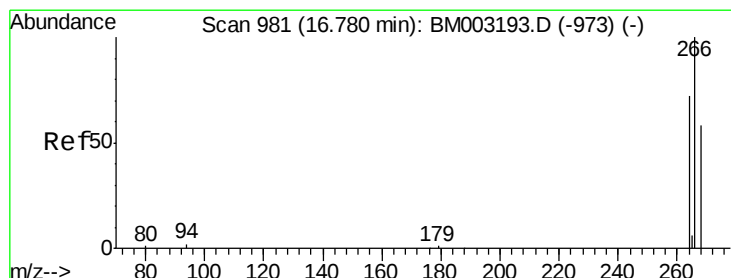
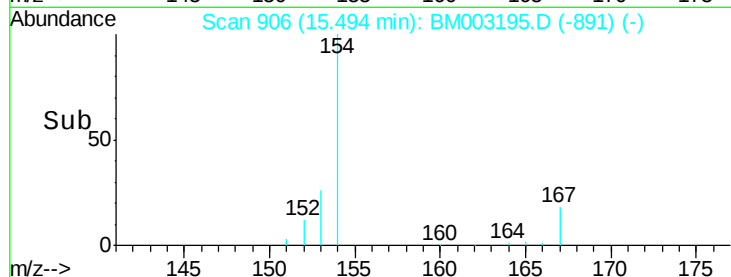
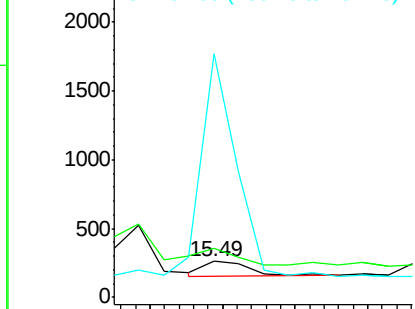
166 100

165 136.9 69.6 104.4#

167 681.2 11.9 17.9#



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

Pentachlorophenol

Concen: 0.00 ng/ul

RT: 16.78 min Scan# 981

Delta R.T. -0.00 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

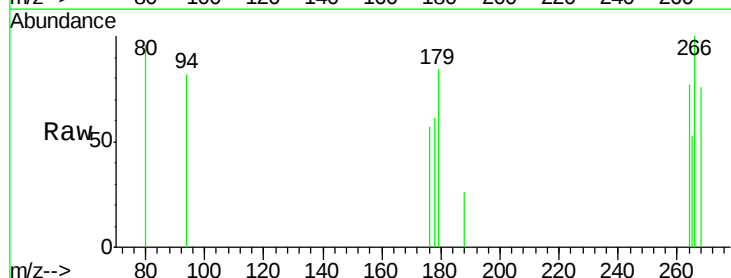
Tgt Ion:266 Resp: 580

Ion Ratio Lower Upper

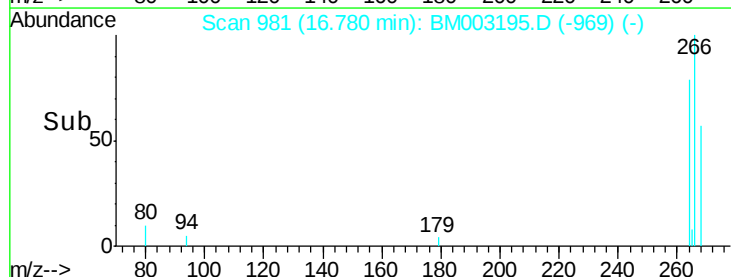
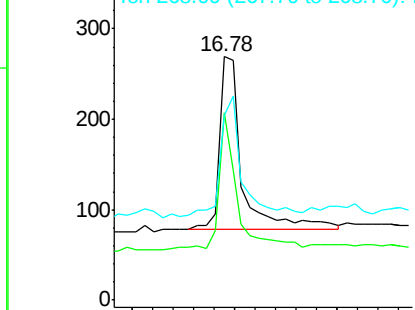
266 100

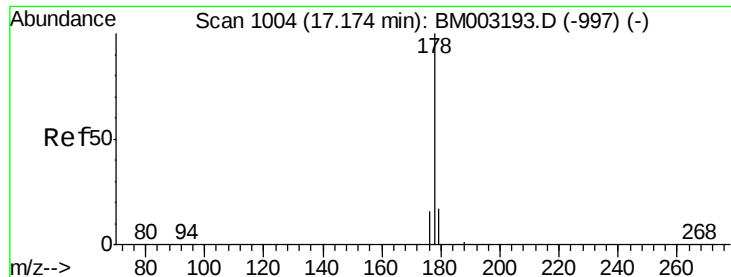
264 56.9 0.3 0.5#

268 64.5 0.0 0.0#



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





#14

Phenanthrene

Concen: 0.00 ng/ul

RT: 17.23 min Scan# 1007

Delta R.T. 0.05 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

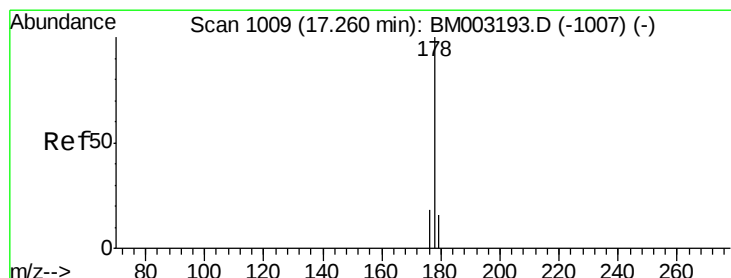
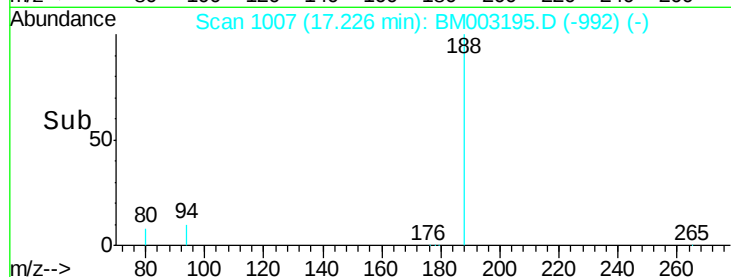
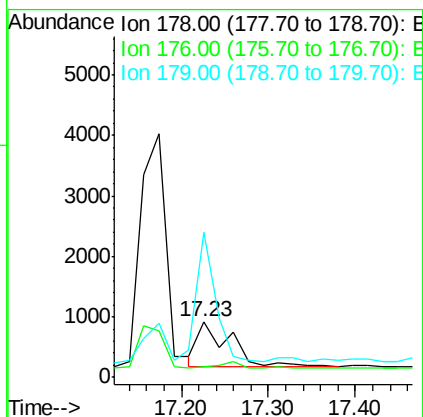
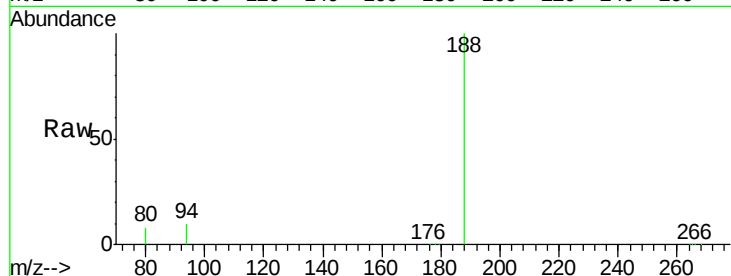
Tot Ion:178 Resp: 1959

Ion Ratio Lower Upper

178 100

176 18.0 13.0 19.4

179 258.6 14.2 21.2#



#15

Anthracene

Concen: 0.00 ng/ul

RT: 17.23 min Scan# 1007

Delta R.T. -0.03 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

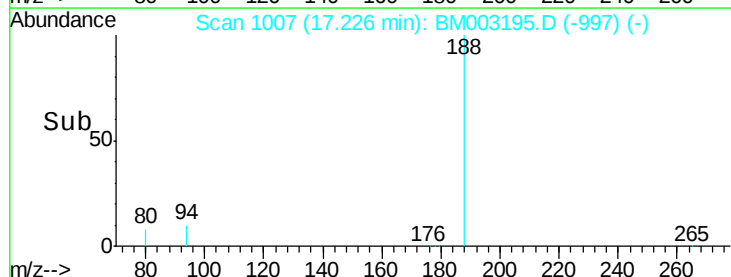
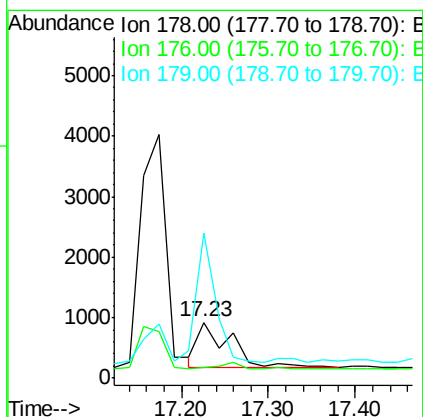
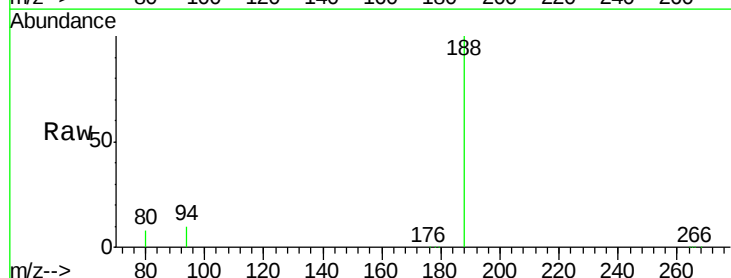
Tgt Ion:178 Resp: 1902

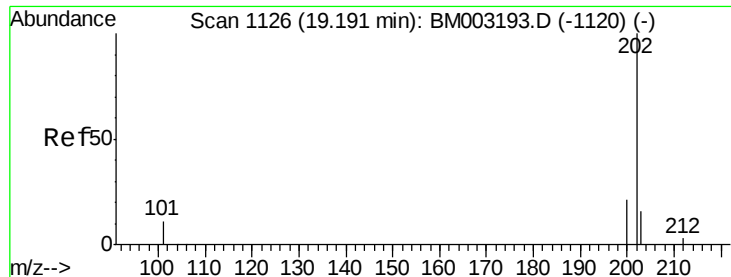
Ion Ratio Lower Upper

178 100

176 18.0 14.0 21.0

179 258.6 12.9 19.3#

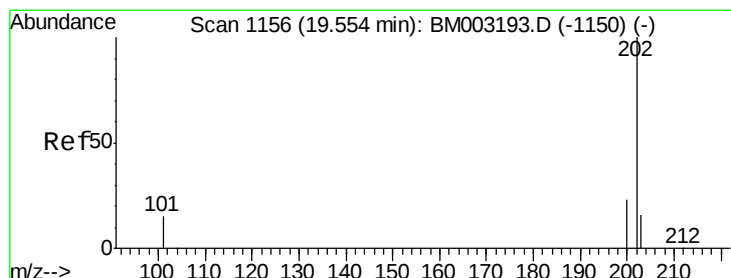
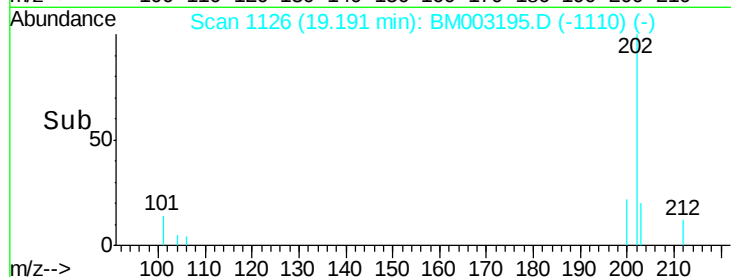
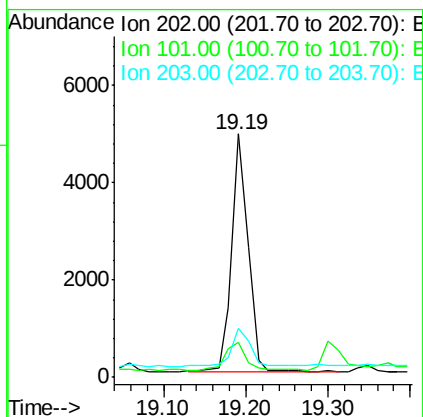
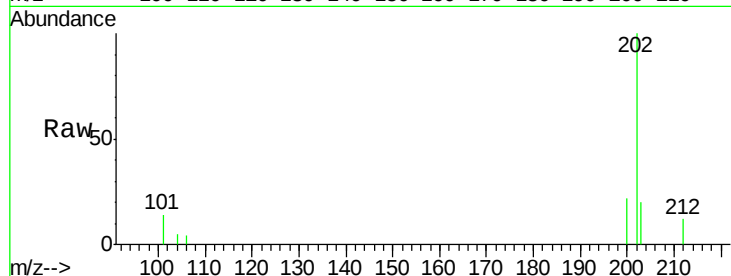




#17  
**Fluoranthene**  
 Concen: 0.00 ng/ul  
 RT: 19.19 min Scan# 1126  
 Delta R.T. -0.00 min  
 Lab File: BM003195.D  
 Acq: 19 Nov 2015 18:17

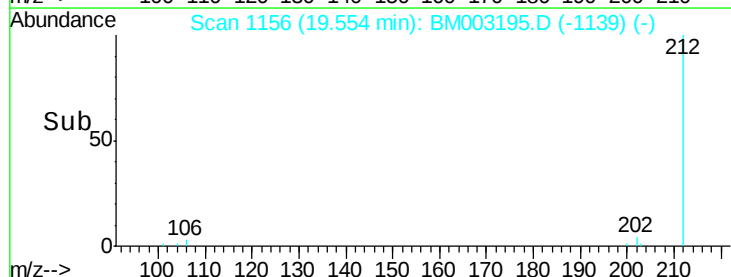
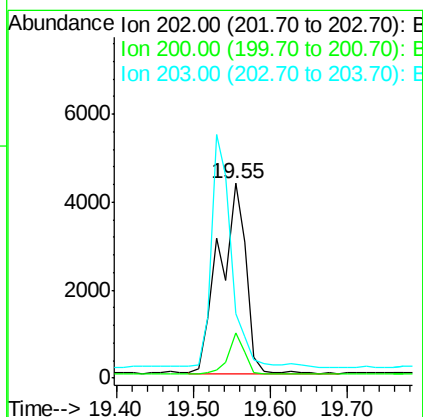
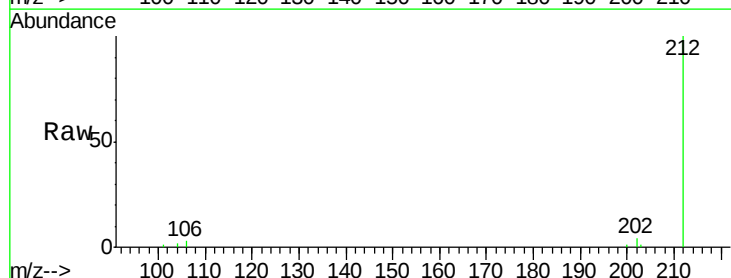
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4HT6

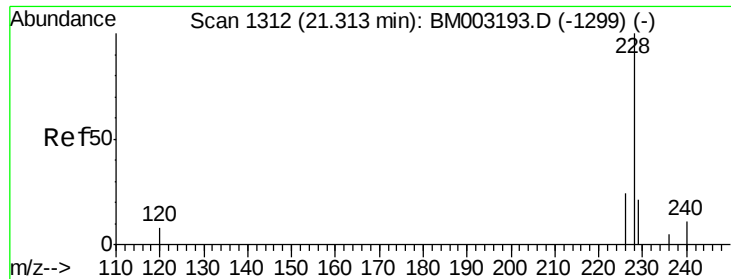
Tot Ion:202 Resp: 6681  
 Ion Ratio Lower Upper  
 202 100  
 101 14.3 0.0 29.6  
 203 20.3 0.0 36.3



#19  
**Pyrene**  
 Concen: 0.06 ng/ul  
 RT: 19.55 min Scan# 1156  
 Delta R.T. -0.00 min  
 Lab File: BM003195.D  
 Acq: 19 Nov 2015 18:17

Tgt Ion:202 Resp: 10436  
 Ion Ratio Lower Upper  
 202 100  
 200 23.2 17.8 26.8  
 203 33.3 12.8 19.2#





#20

Benzo(a)anthracene

Concen: 0.02 ng/ul

RT: 21.30 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

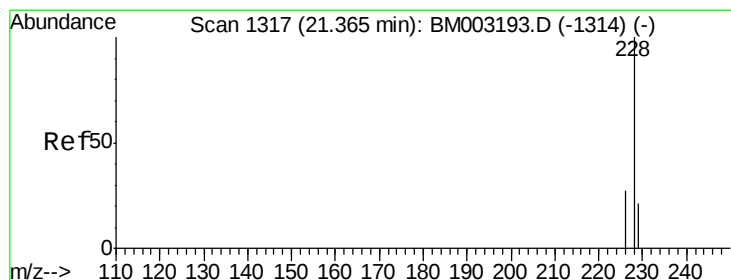
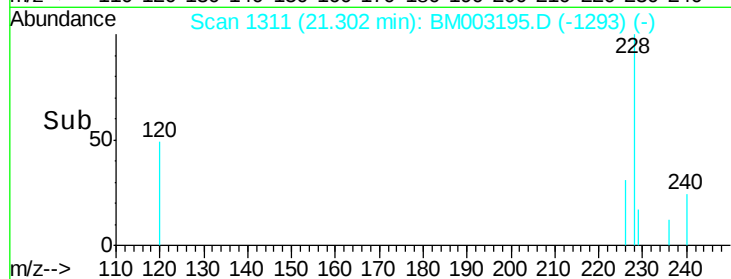
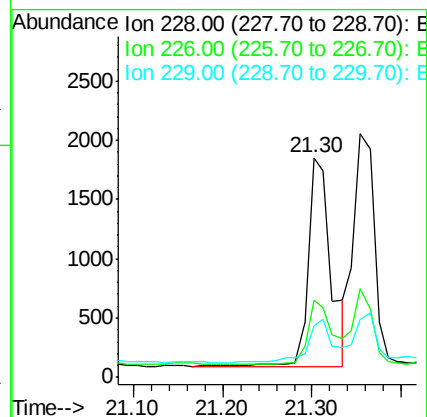
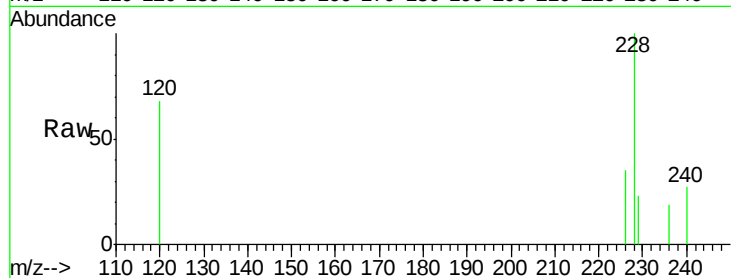
Tot Ion:228 Resp: 3141

Ion Ratio Lower Upper

228 100

226 35.4 18.8 28.2#

229 23.5 17.1 25.7



#21

Chrysene

Concen: 0.02 ng/ul

RT: 21.35 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

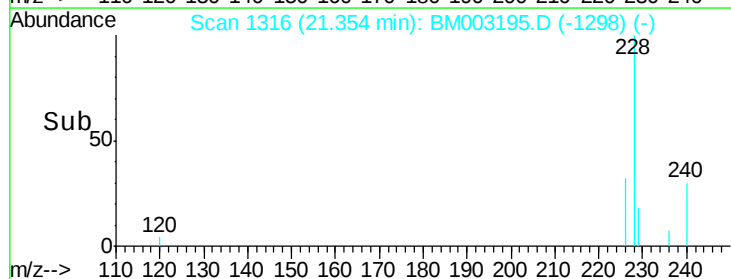
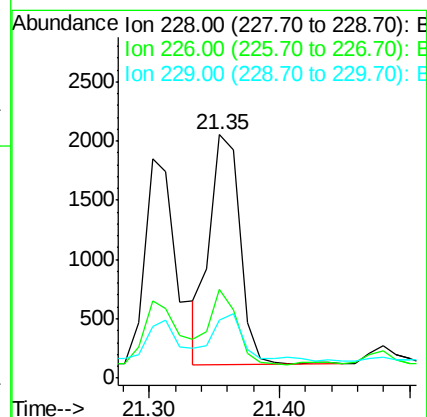
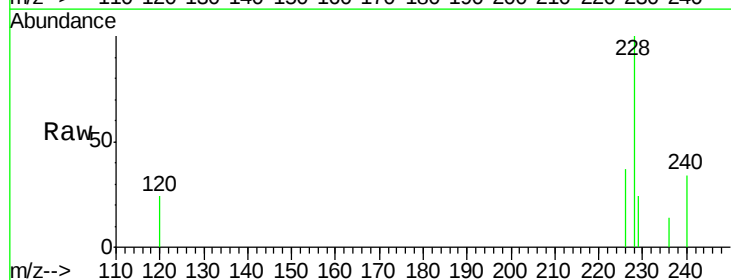
Tgt Ion:228 Resp: 3140

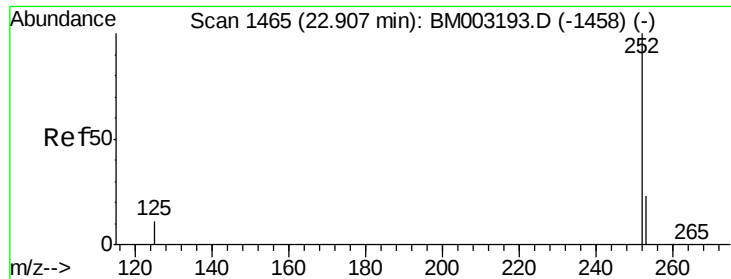
Ion Ratio Lower Upper

228 100

226 36.5 21.2 31.8#

229 23.7 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 0.00 ng/u1

RT: 22.90 min Scan# 1464

Delta R.T. -0.01 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

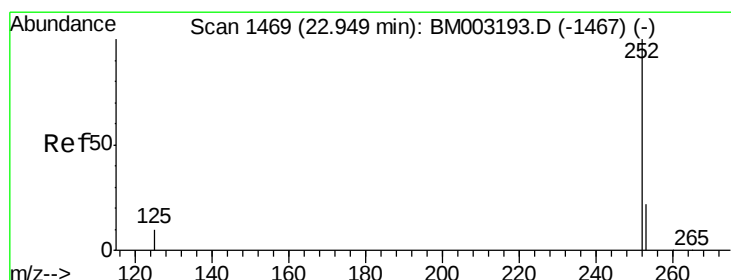
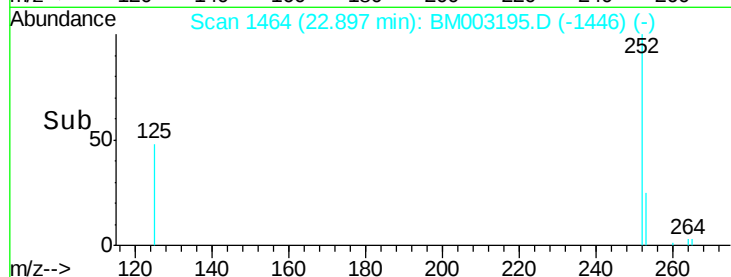
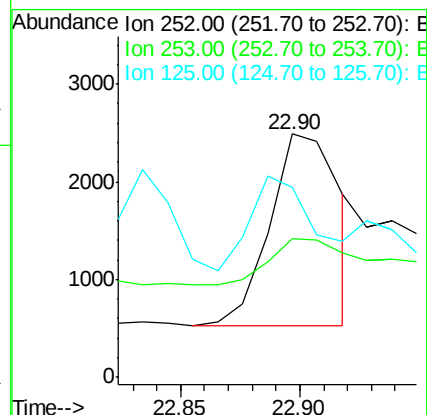
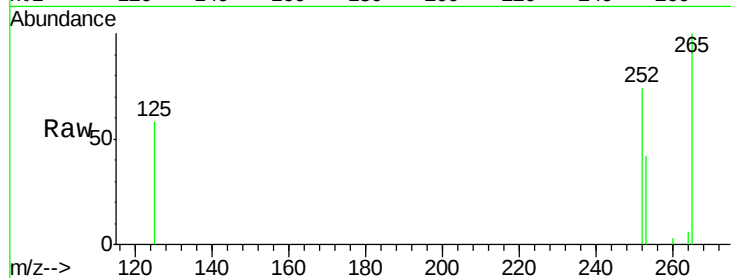
Tot Ion:252 Resp: 3990

Ion Ratio Lower Upper

252 100

253 56.8 0.0 45.4#

125 78.1 0.0 28.8#



#24

Benzo(k)fluoranthene

Concen: 0.00 ng/u1

RT: 22.90 min Scan# 1464

Delta R.T. -0.05 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

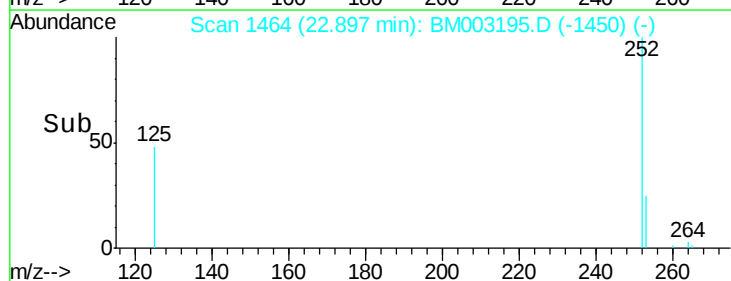
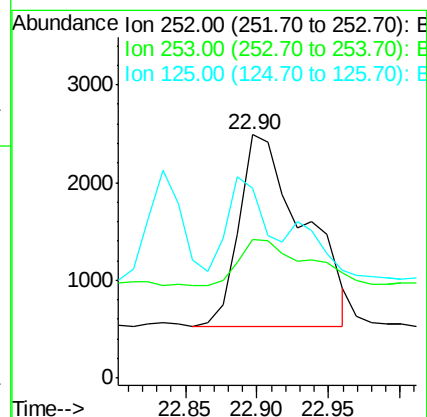
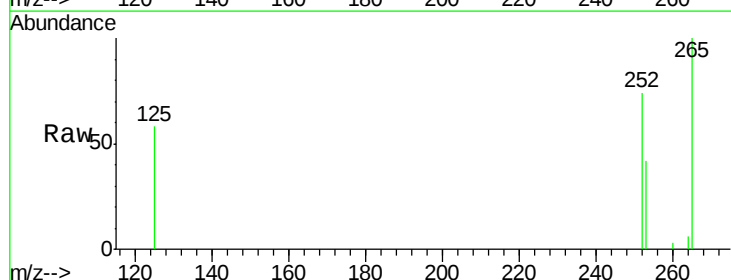
Tgt Ion:252 Resp: 6119

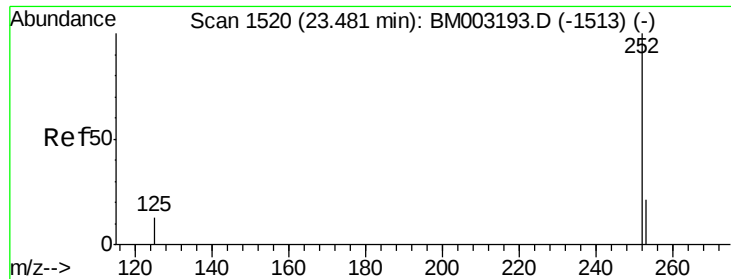
Ion Ratio Lower Upper

252 100

253 56.8 19.8 29.8#

125 78.1 10.4 15.6#





#25

Benzo(a)pyrene

Concen: 0.00 ng/uL

RT: 23.39 min Scan# 1511

Delta R.T. -0.09 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

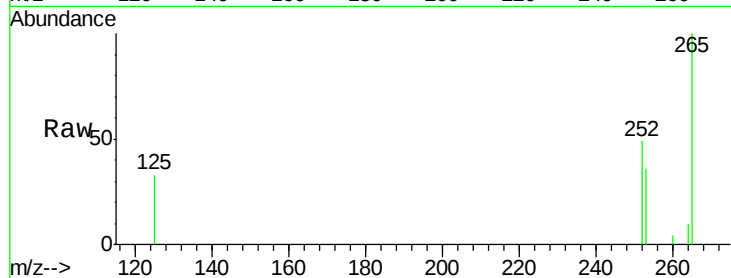
Tot Ion:252 Resp: 2406

Ion Ratio Lower Upper

252 100

253 72.8 19.4 29.2#

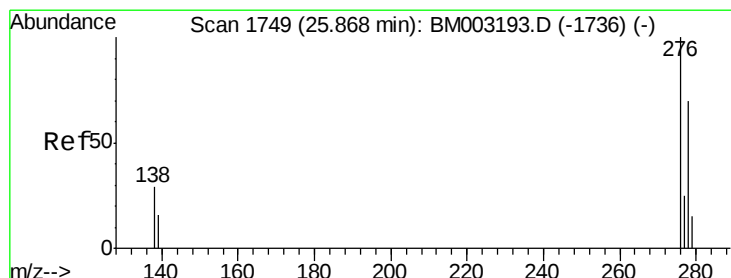
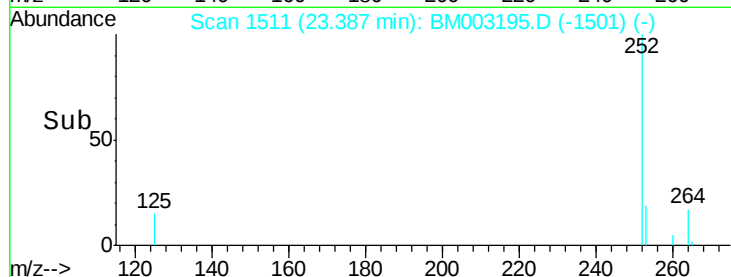
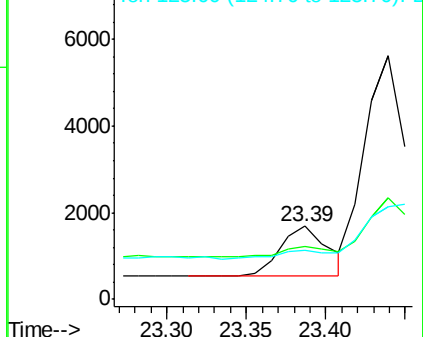
125 67.0 12.7 19.1#



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/uL

RT: 25.62 min Scan# 1725

Delta R.T. -0.25 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

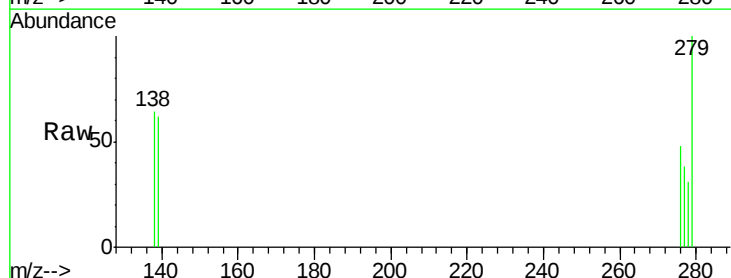
Tgt Ion:276 Resp: 220

Ion Ratio Lower Upper

276 100

138 42.7 0.0 0.0#

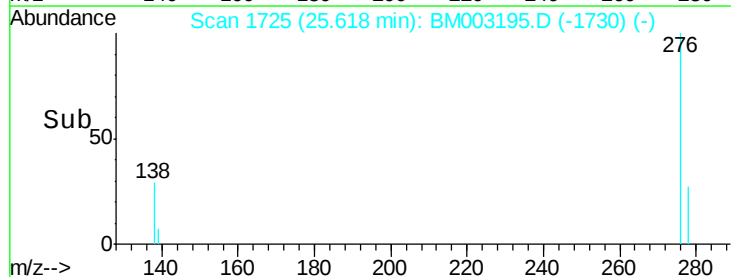
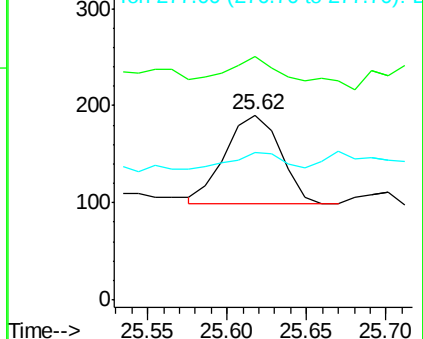
277 17.7 0.0 0.0#

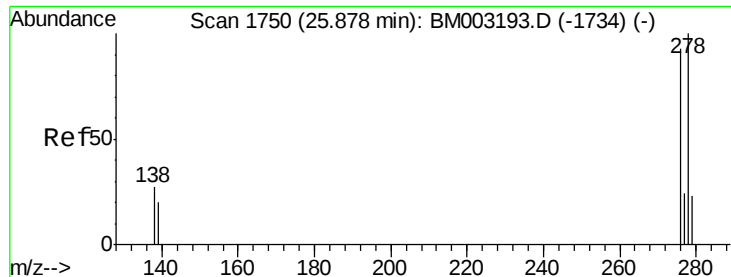


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#27

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

RT: 25.77 min Scan# 1740

Delta R.T. -0.10 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

Instrument :

BNA\_M

ClientSampleId :

A4HT6

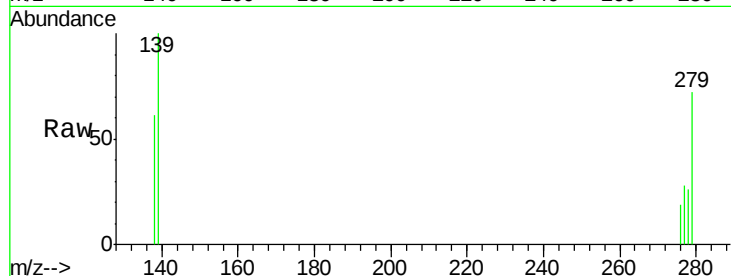
Tot Ion:278 Resp: 89

Ion Ratio Lower Upper

278 100

139 386.8 16.4 24.6#

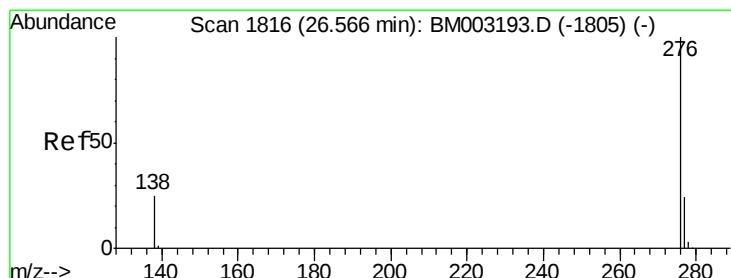
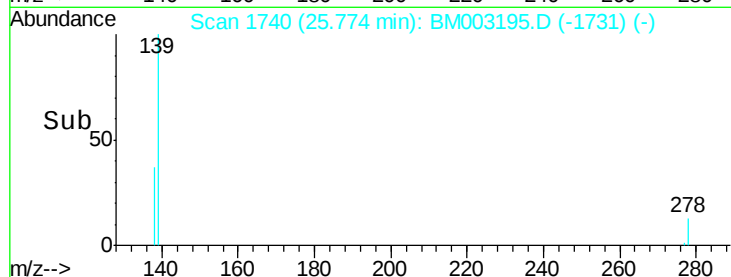
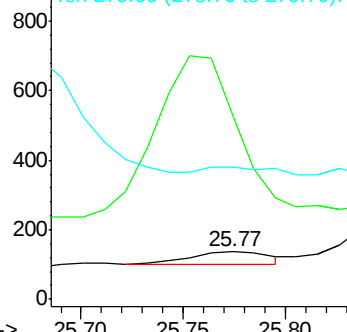
279 280.1 20.2 30.2#



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



#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.40 min Scan# 1800

Delta R.T. -0.17 min

Lab File: BM003195.D

Acq: 19 Nov 2015 18:17

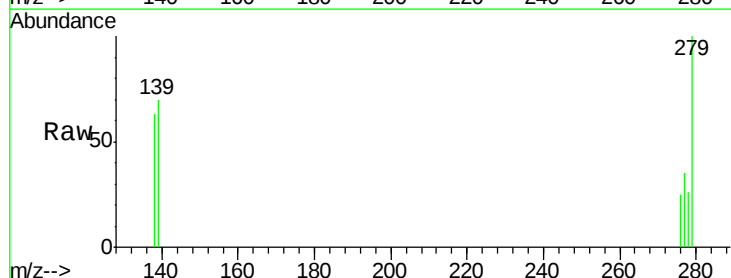
Tgt Ion:276 Resp: 34

Ion Ratio Lower Upper

276 100

277 138.3 18.9 28.3#

138 247.9 22.5 33.7#



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

