

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM083016\  
 Data File : BM007352.D  
 Acq On : 30 Aug 2016 21:05  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02039

Quant Time: Aug 31 02:17:40 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM081516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 26 23:46:46 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 995      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.58 | 136  | 4418     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.42 | 164  | 3007     | 0.40 | ng/ul | -0.02    |
| 10) Phenanthrene-d10      | 17.16 | 188  | 7936     | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.35 | 240  | 8605     | 0.40 | ng/ul | -0.01    |
| 20) Perylene-d12          | 23.62 | 264  | 8064     | 0.40 | ng/ul | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.17 | 152  | 2471     | 0.45 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.19 | 212  | 7943     | 0.44 | ng/ul | -0.01    |

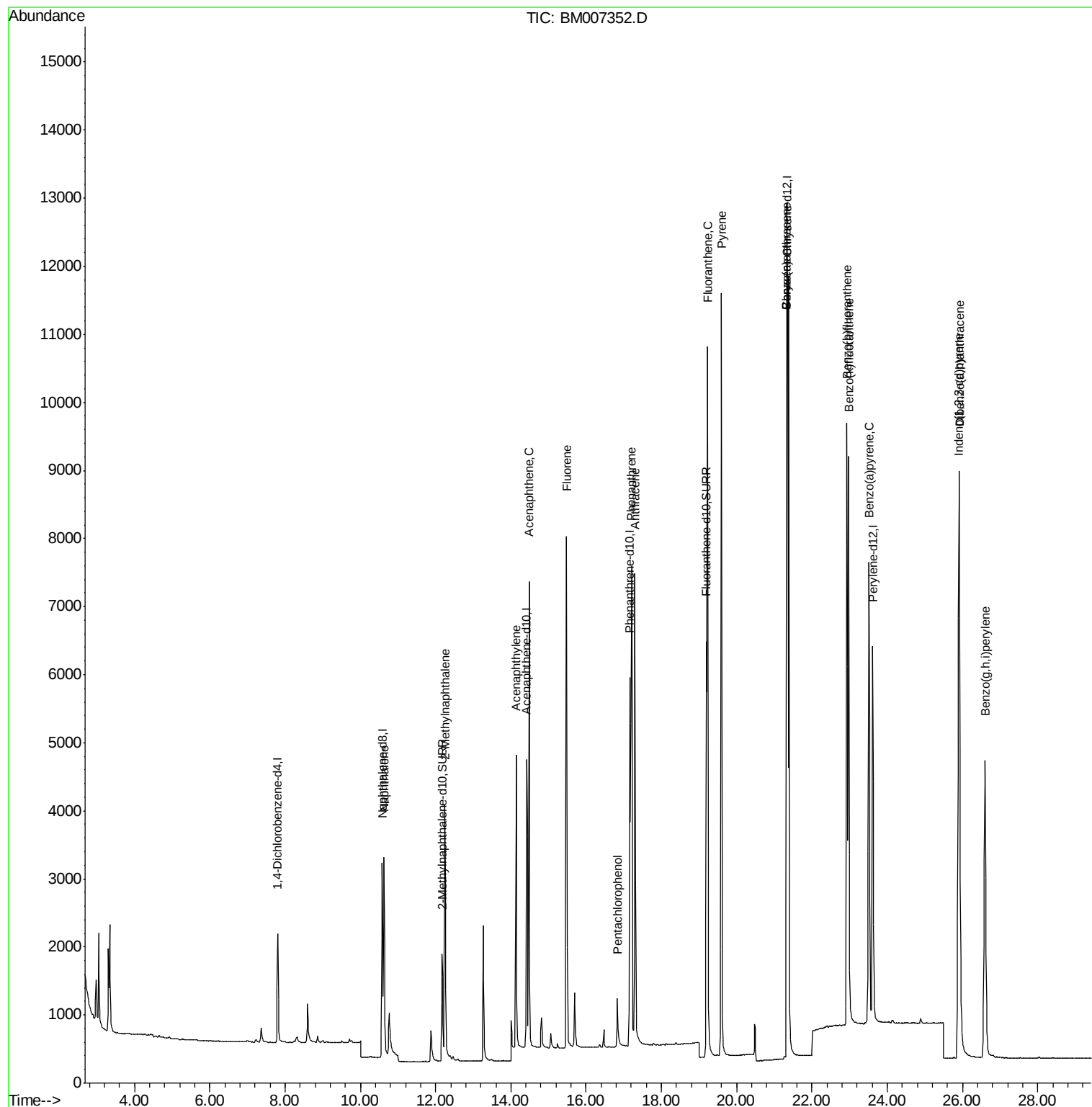
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.63 | 128  | 4481     | 0.40 | ng/ul  | 95     |
| 5) 2-Methylnaphthalene     | 12.25 | 142  | 3346     | 0.45 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.14 | 152  | 5713     | 0.35 | ng/ul# | 94     |
| 8) Acenaphthene            | 14.49 | 153  | 4346     | 0.42 | ng/ul  | 92     |
| 9) Fluorene                | 15.48 | 166  | 5292     | 0.45 | ng/ul  | 91     |
| 11) Pentachlorophenol      | 16.83 | 266  | 703      | 0.35 | ng/ul  | 94     |
| 12) Phenanthrene           | 17.21 | 178  | 9633     | 0.43 | ng/ul  | 98     |
| 13) Anthracene             | 17.30 | 178  | 8608     | 0.40 | ng/ul  | 97     |
| 15) Fluoranthene           | 19.23 | 202  | 11810    | 0.45 | ng/ul  | 94     |
| 17) Pyrene                 | 19.59 | 202  | 12293    | 0.43 | ng/ul  | 94     |
| 18) Benzo(a)anthracene     | 21.32 | 228  | 10989    | 0.40 | ng/ul# | 89     |
| 19) Chrysene               | 21.32 | 228  | 10989    | 0.42 | ng/ul  | 93     |
| 21) Benzo(b)fluoranthene   | 22.93 | 252  | 12285    | 0.41 | ng/ul  | 97     |
| 22) Benzo(k)fluoranthene   | 22.97 | 252  | 11431    | 0.46 | ng/ul  | 97     |
| 23) Benzo(a)pyrene         | 23.51 | 252  | 11063    | 0.43 | ng/ul  | 98     |
| 24) Indeno(1,2,3-cd)pyrene | 25.90 | 276  | 11706    | 0.37 | ng/ul# | 94     |
| 25) Dibenzo(a,h)anthracene | 25.91 | 278  | 9228     | 0.37 | ng/ul  | 99     |
| 26) Benzo(g,h,i)perylene   | 26.60 | 276  | 9971     | 0.37 | ng/ul  | 95     |

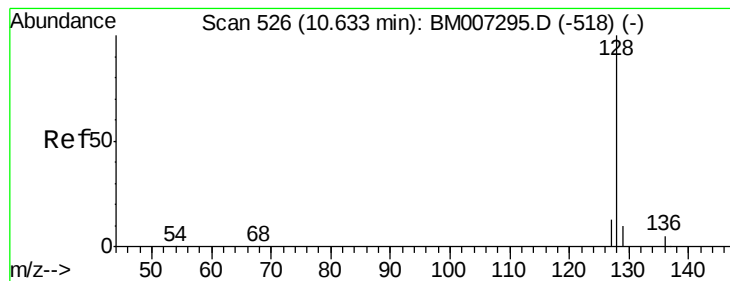
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 23:46:46 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.40 ng/ul

RT: 10.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

BNA\_M

ClientSampleId :

SSTD02039

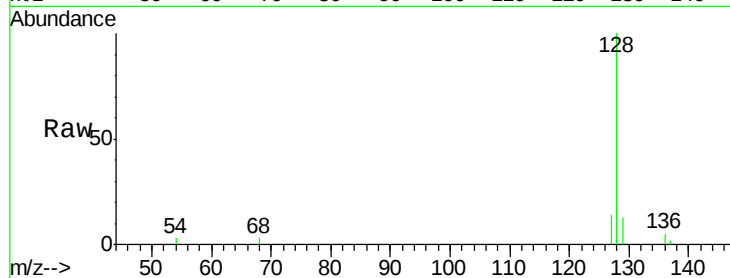
Tgt Ion:128 Resp: 4481

Ion Ratio Lower Upper

128 100

129 13.1 9.0 13.6

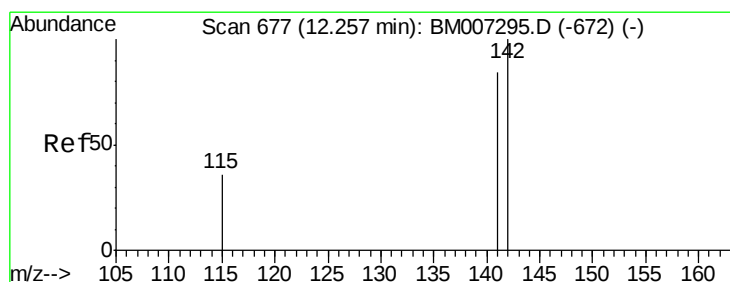
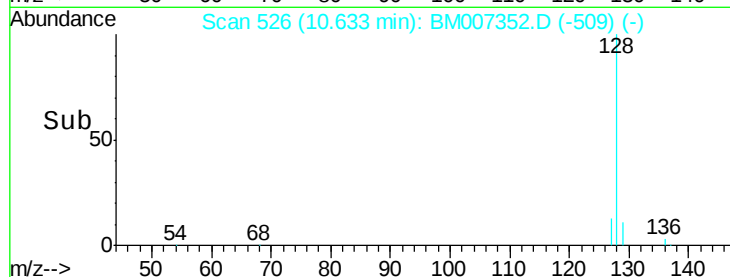
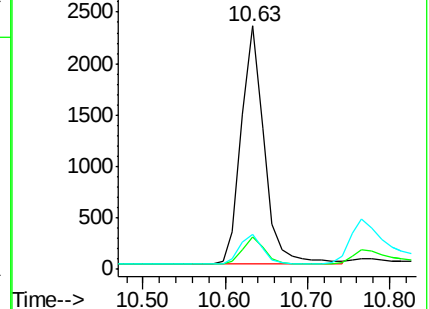
127 14.3 9.6 14.4



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



#5

2-Methylnaphthalene

Concen: 0.45 ng/ul

RT: 12.25 min Scan# 676

Delta R.T. -0.01 min

Lab File: BM007352.D

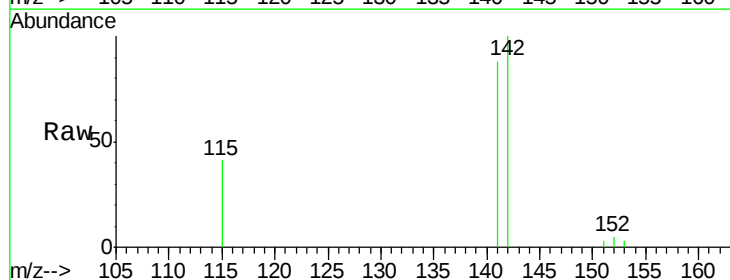
Acq: 30 Aug 2016 21:05

Tgt Ion:142 Resp: 3346

Ion Ratio Lower Upper

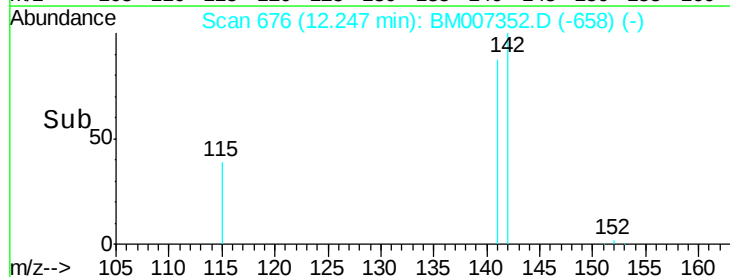
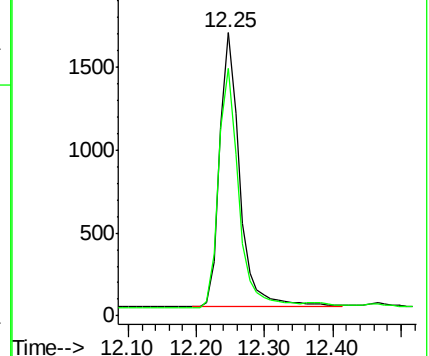
142 100

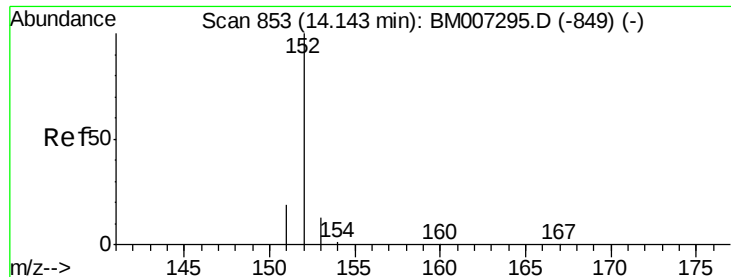
141 89.8 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.35 ng/ul

RT: 14.14 min Scan# 853

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

BNA\_M

ClientSampleId :

SSTD02039

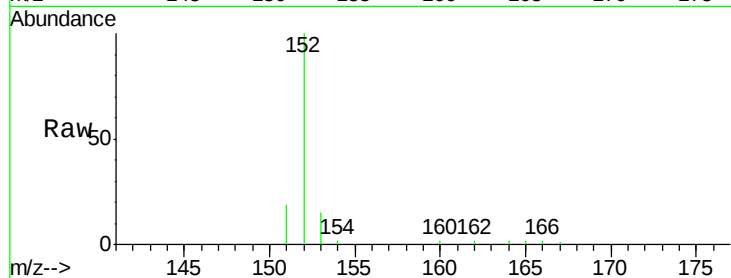
Tgt Ion:152 Resp: 5713

Ion Ratio Lower Upper

152 100

151 19.2 17.6 26.4

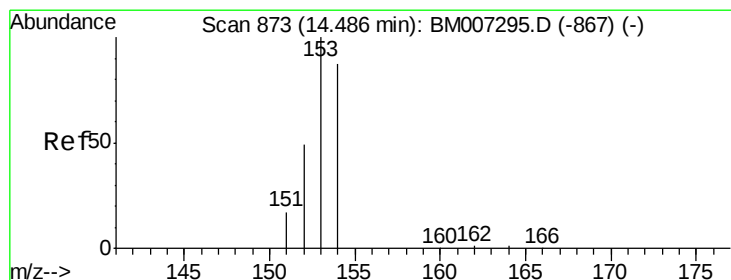
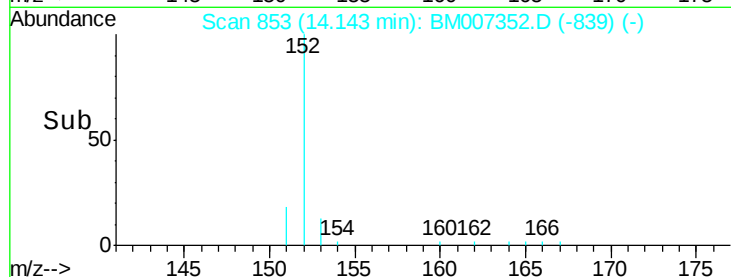
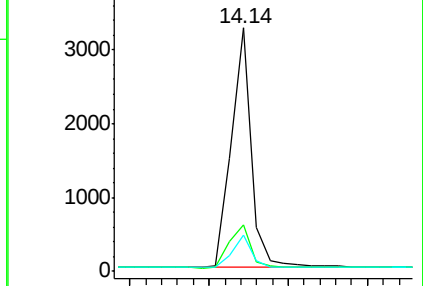
153 14.8 9.7 14.5#



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



#8

Acenaphthene

Concen: 0.42 ng/ul

RT: 14.49 min Scan# 873

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

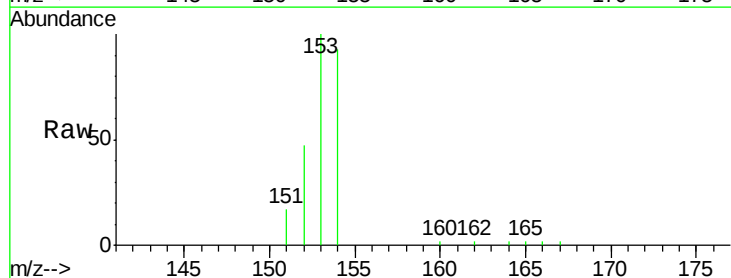
Tgt Ion:153 Resp: 4346

Ion Ratio Lower Upper

153 100

152 46.9 33.9 50.9

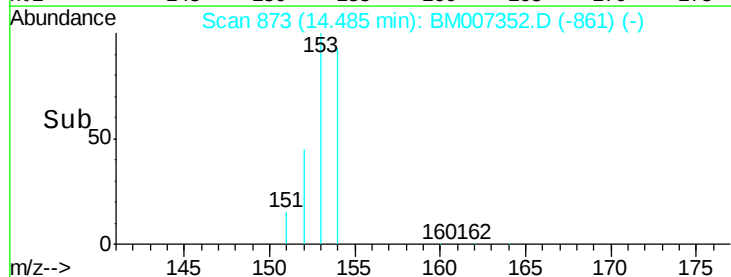
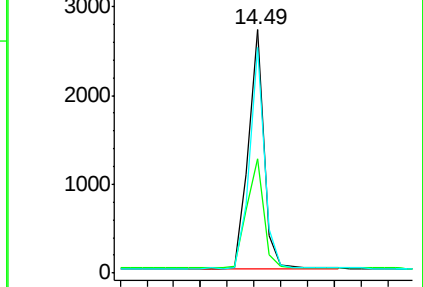
154 92.8 80.6 121.0

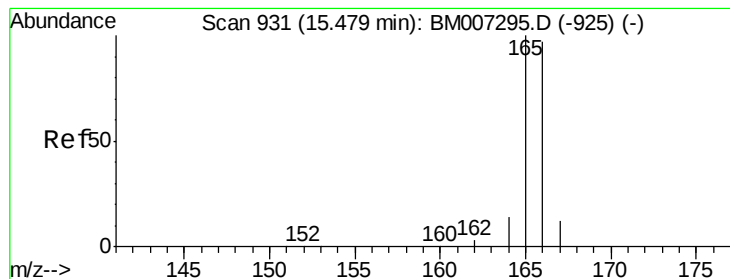


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.45 ng/ul

RT: 15.48 min Scan# 931

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

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SSTD02039

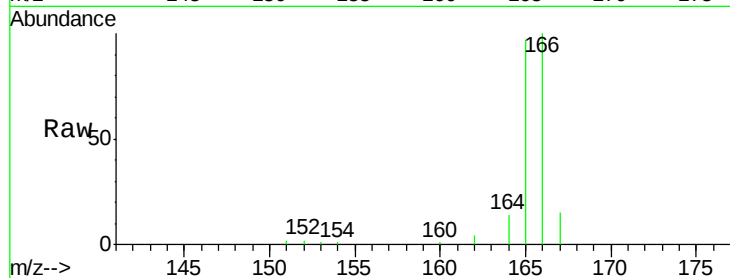
Tgt Ion:166 Resp: 5292

Ion Ratio Lower Upper

166 100

165 96.6 69.6 104.4

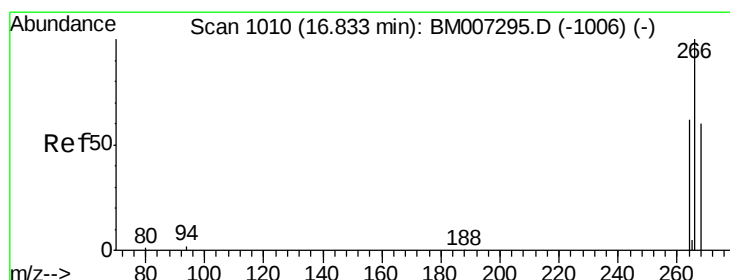
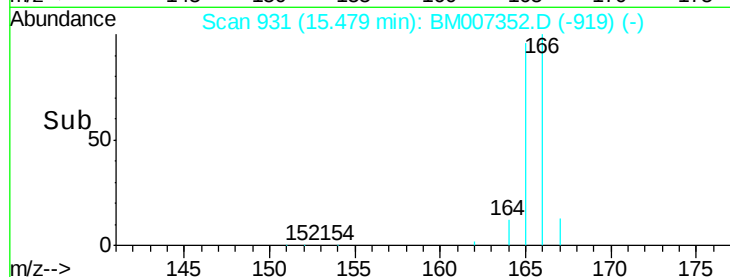
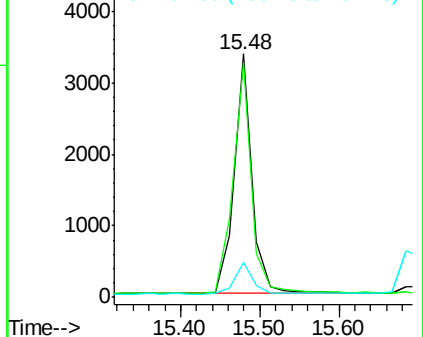
167 14.6 11.9 17.9



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



#11

Pentachlorophenol

Concen: 0.35 ng/ul

RT: 16.83 min Scan# 1010

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

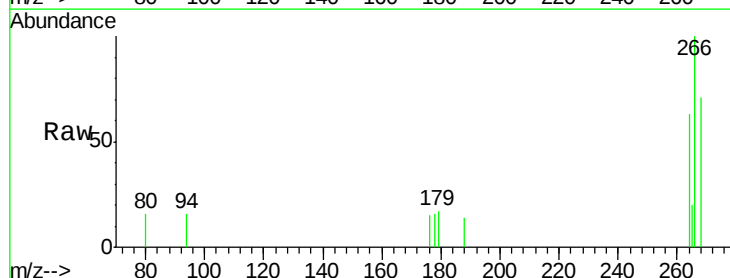
Tgt Ion:266 Resp: 703

Ion Ratio Lower Upper

266 100

264 62.2 51.8 77.8

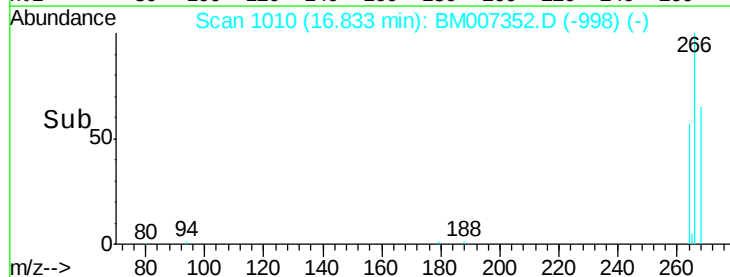
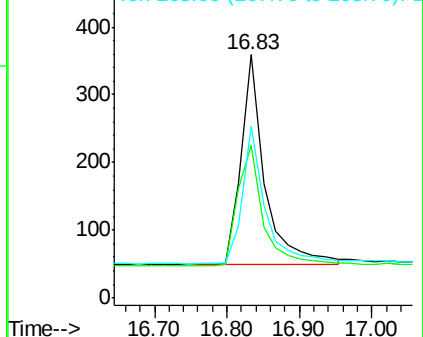
268 64.7 46.8 70.2

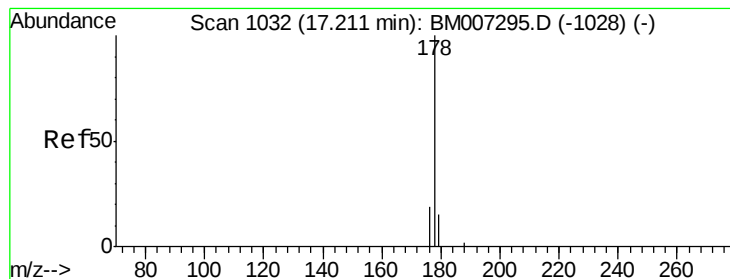


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.43 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

BNA\_M

ClientSampleId :

SSTD02039

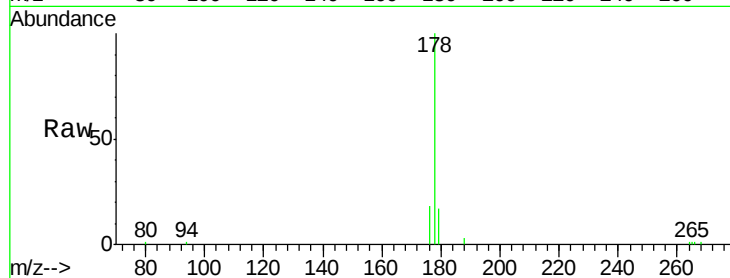
Tgt Ion:178 Resp: 9633

Ion Ratio Lower Upper

178 100

176 18.1 13.0 19.4

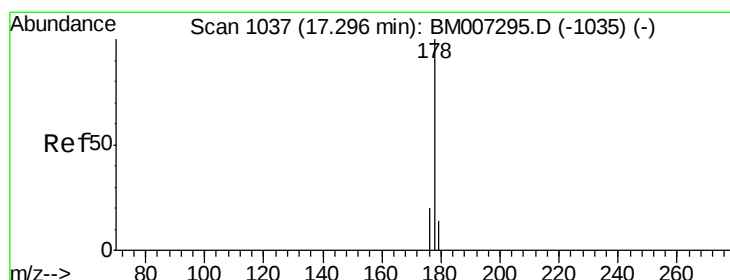
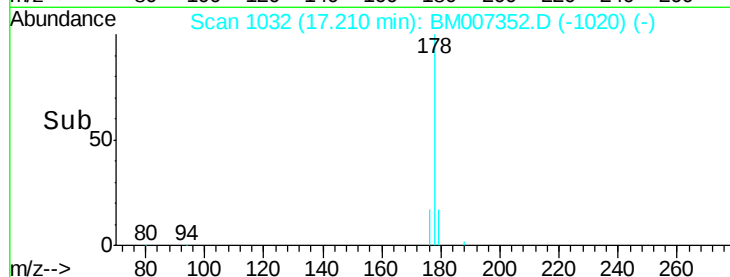
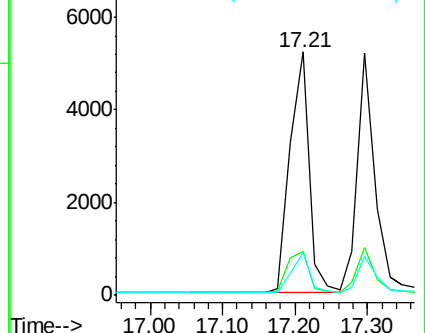
179 17.5 14.2 21.2



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



#13

Anthracene

Concen: 0.40 ng/ul

RT: 17.30 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

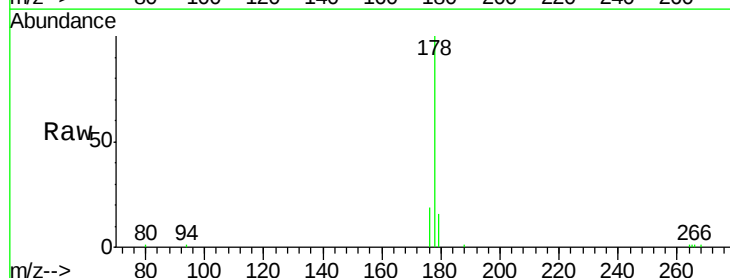
Tgt Ion:178 Resp: 8608

Ion Ratio Lower Upper

178 100

176 19.5 14.0 21.0

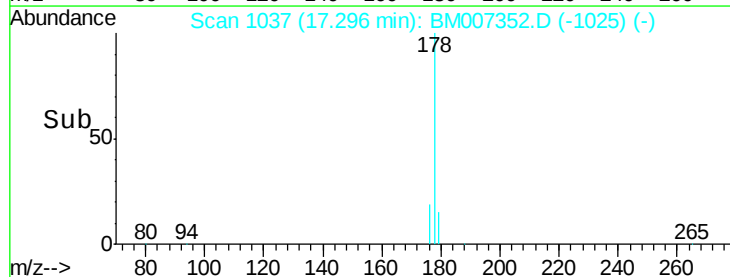
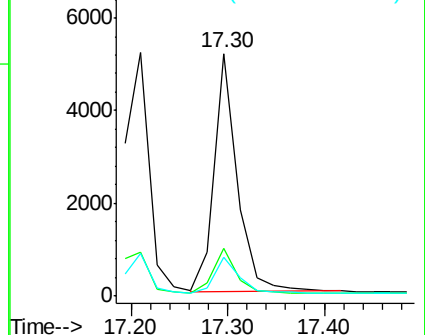
179 15.9 12.9 19.3

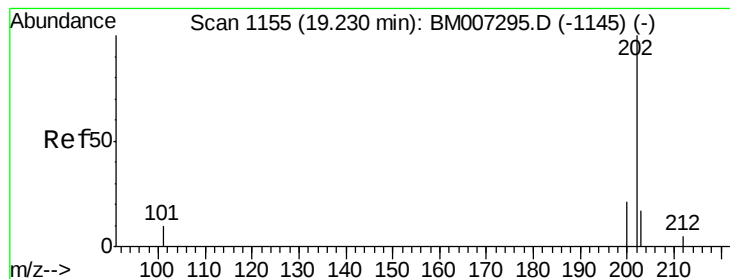


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.45 ng/ul

RT: 19.23 min Scan# 1155

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

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ClientSampleId :

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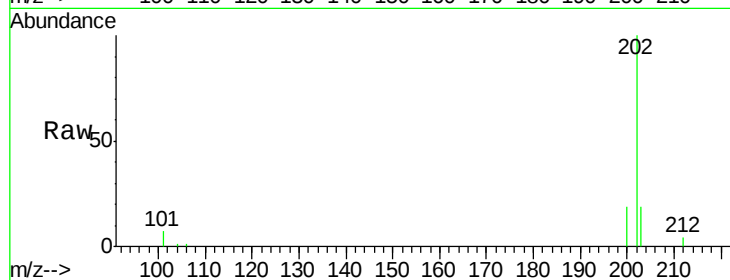
Tgt Ion:202 Resp: 11810

Ion Ratio Lower Upper

202 100

101 7.3 0.0 29.6

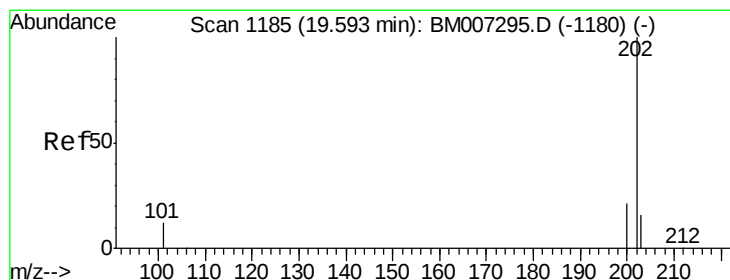
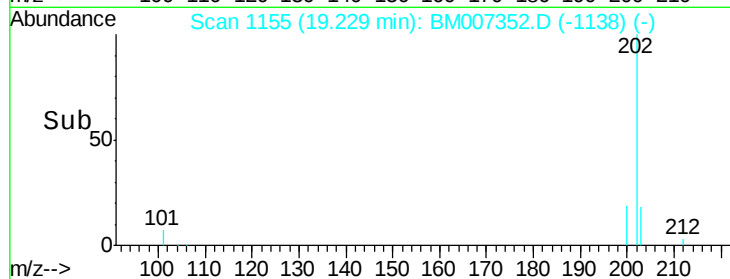
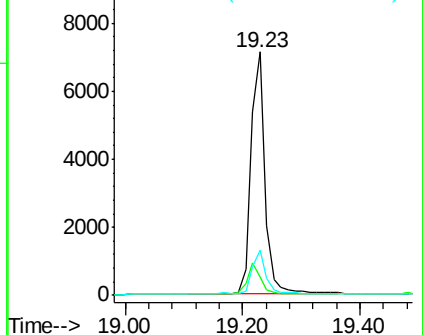
203 18.8 0.0 36.3



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: 0.43 ng/ul

RT: 19.59 min Scan# 1185

Delta R.T. -0.00 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

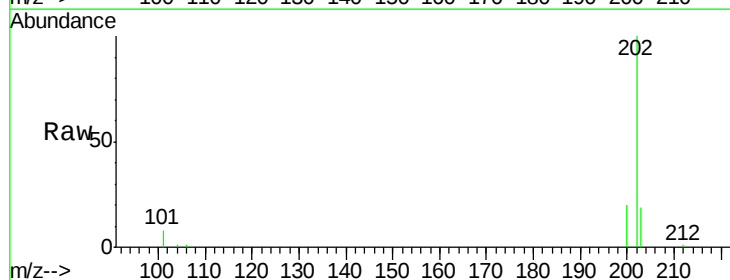
Tgt Ion:202 Resp: 12293

Ion Ratio Lower Upper

202 100

200 19.6 17.8 26.8

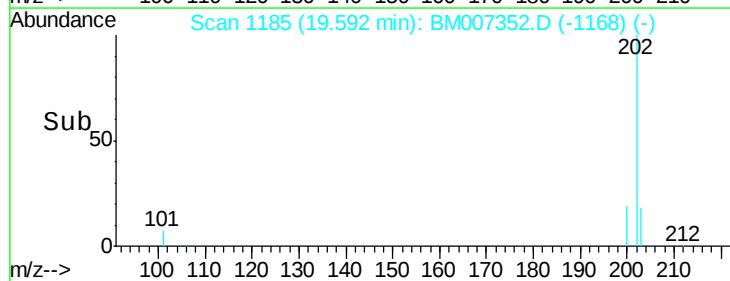
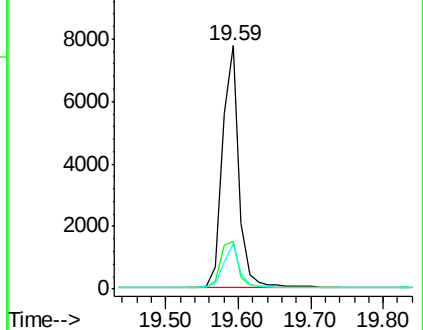
203 18.8 12.8 19.2

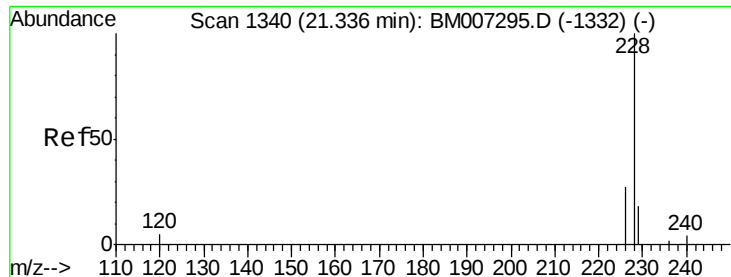


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.40 ng/ul

RT: 21.32 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

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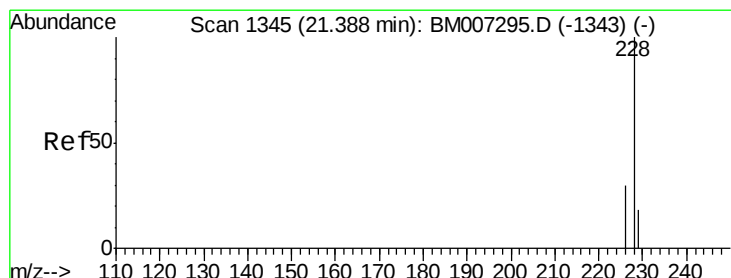
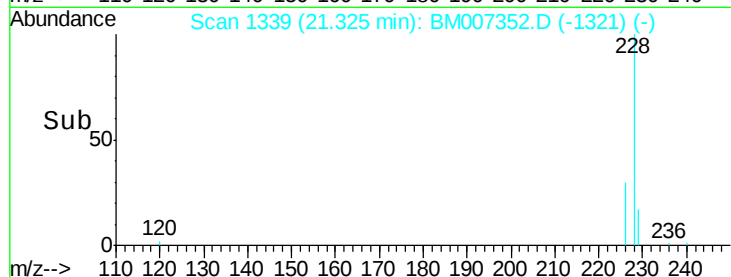
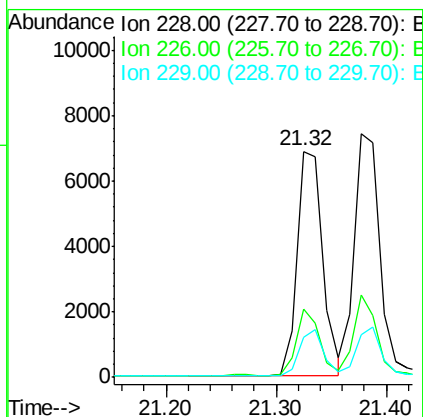
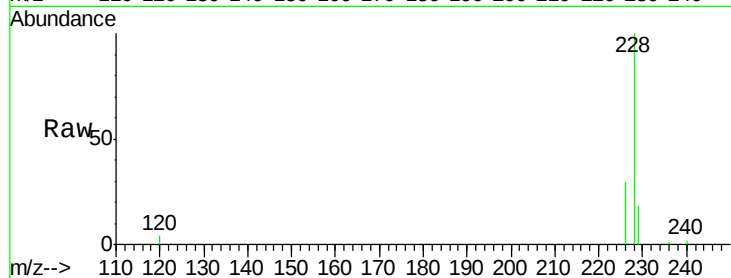
Tgt Ion:228 Resp: 10989

Ion Ratio Lower Upper

228 100

226 30.4 18.8 28.2#

229 17.9 17.1 25.7



#19

Chrysene

Concen: 0.42 ng/ul

RT: 21.32 min Scan# 1339

Delta R.T. -0.06 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

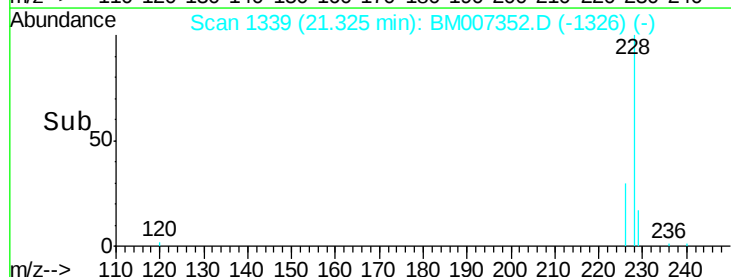
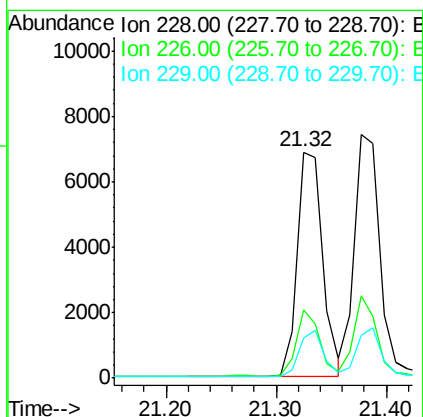
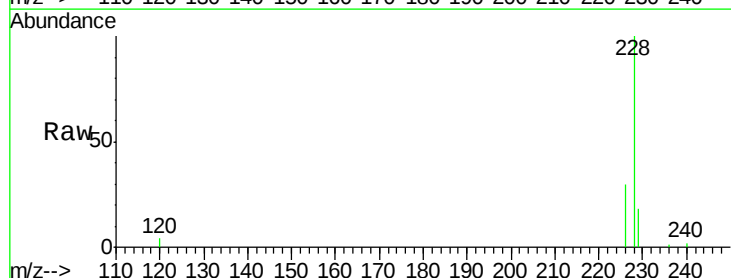
Tgt Ion:228 Resp: 10989

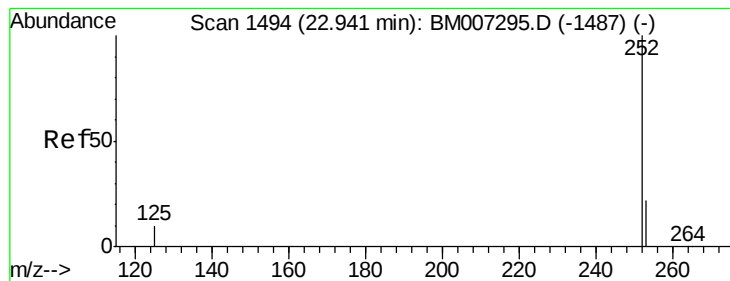
Ion Ratio Lower Upper

228 100

226 30.4 21.2 31.8

229 17.9 17.0 25.6





#21

Benzo(b)fluoranthene

Concen: 0.41 ng/u1

RT: 22.93 min Scan# 1493

Delta R.T. -0.01 min

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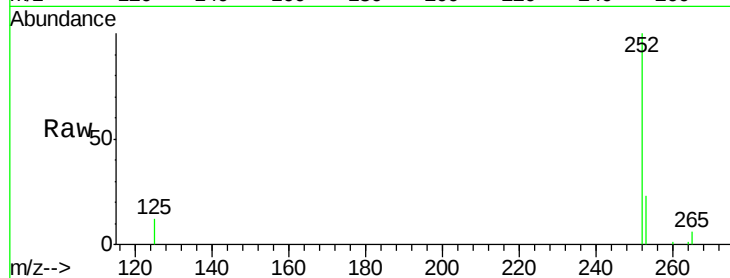
Tgt Ion:252 Resp: 12285

Ion Ratio Lower Upper

252 100

253 23.3 0.0 45.4

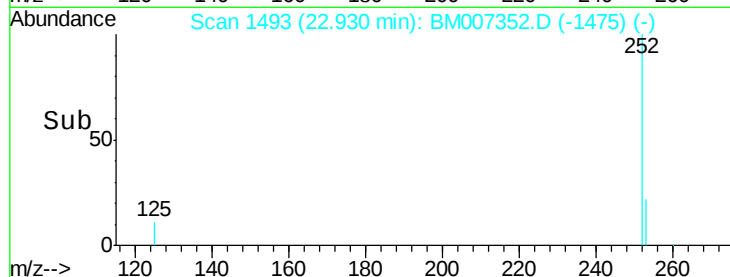
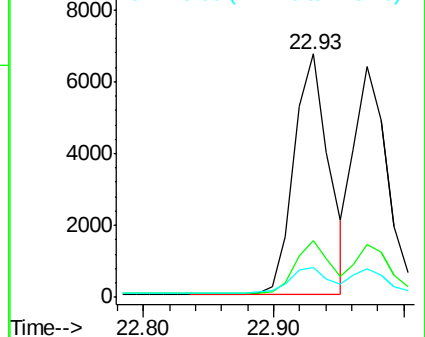
125 12.4 0.0 28.8



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



#22

Benzo(k)fluoranthene

Concen: 0.46 ng/u1

RT: 22.97 min Scan# 1497

Delta R.T. -0.01 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

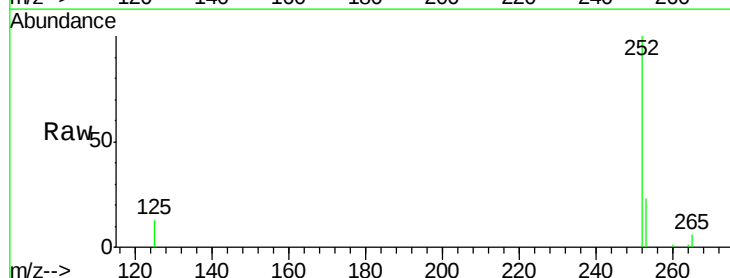
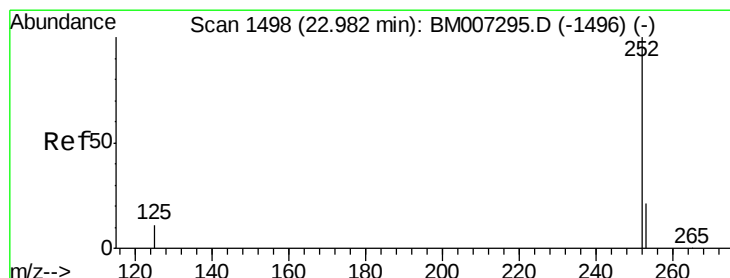
Tgt Ion:252 Resp: 11431

Ion Ratio Lower Upper

252 100

253 22.7 19.8 29.8

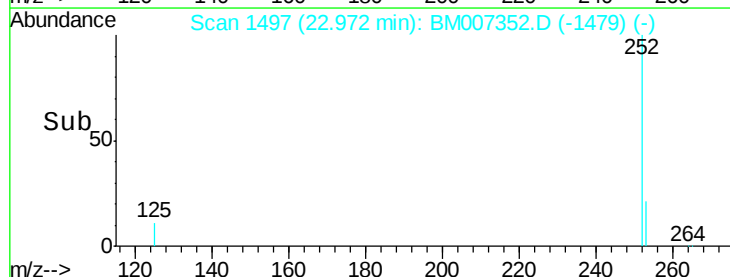
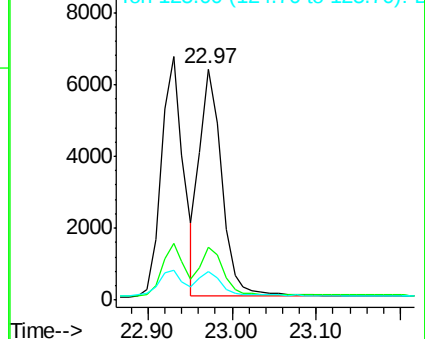
125 12.6 10.4 15.6

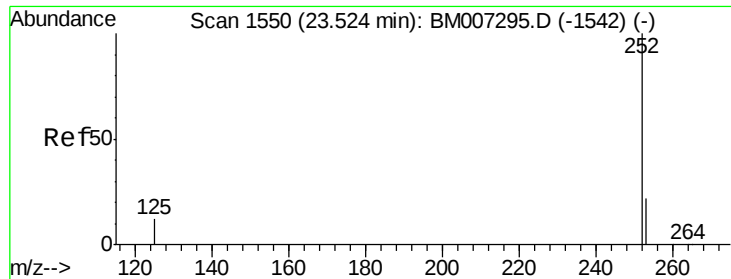


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.43 ng/ul

RT: 23.51 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

Instrument :

BNA\_M

ClientSampleId :

SSTD02039

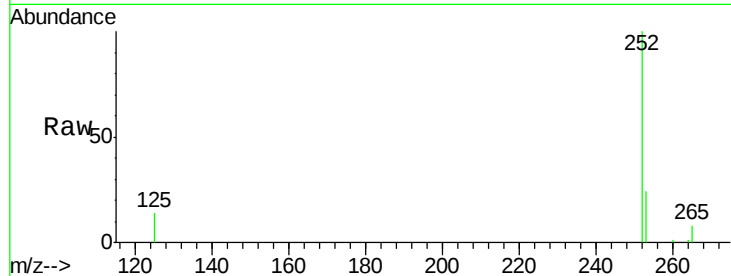
Tgt Ion:252 Resp: 11063

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.2

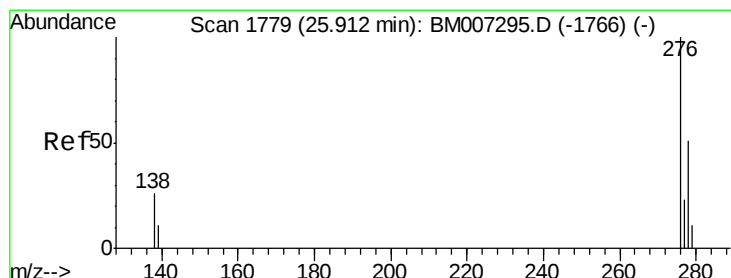
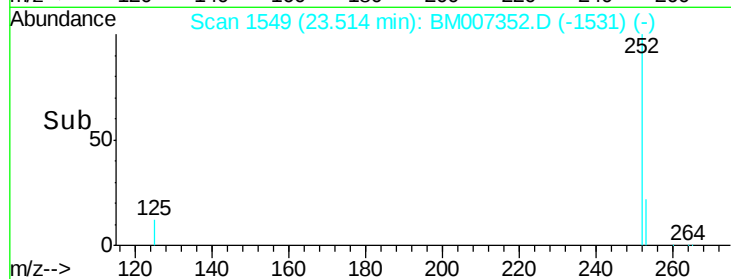
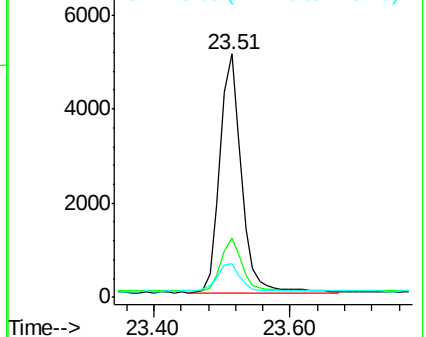
125 13.9 12.7 19.1



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.37 ng/ul

RT: 25.90 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BM007352.D

Acq: 30 Aug 2016 21:05

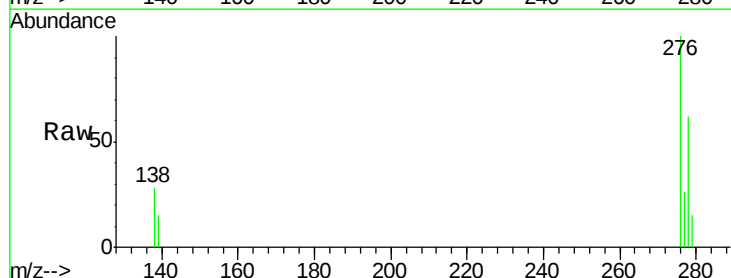
Tgt Ion:276 Resp: 11706

Ion Ratio Lower Upper

276 100

138 26.6 16.3 24.5#

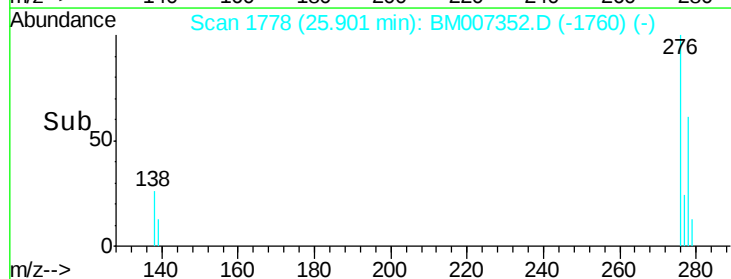
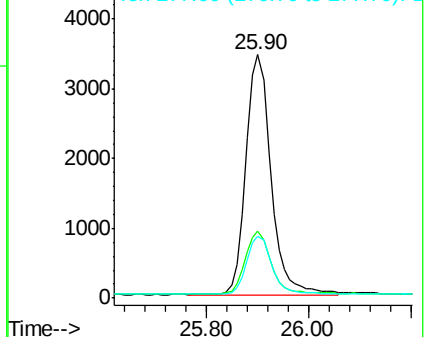
277 24.4 19.8 29.8

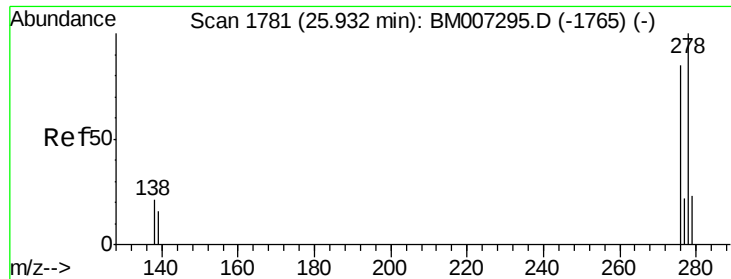


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



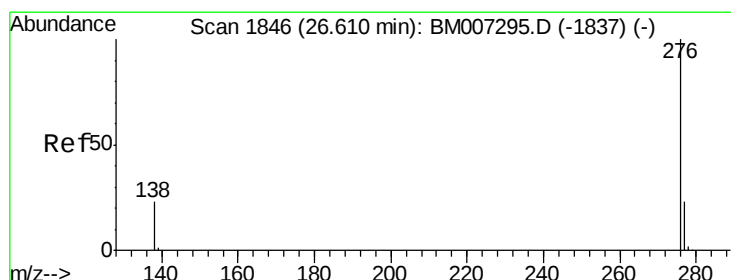
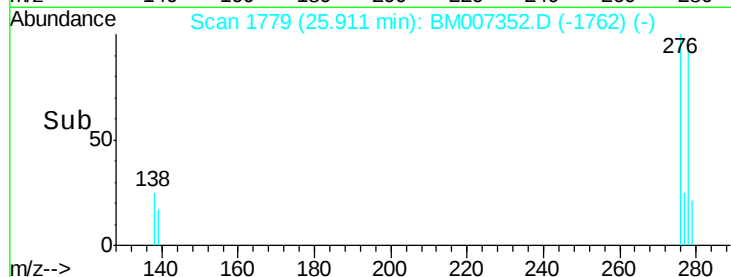
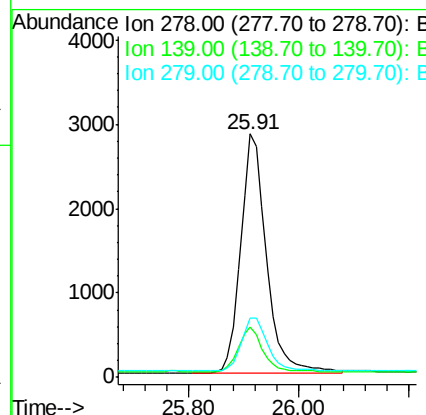
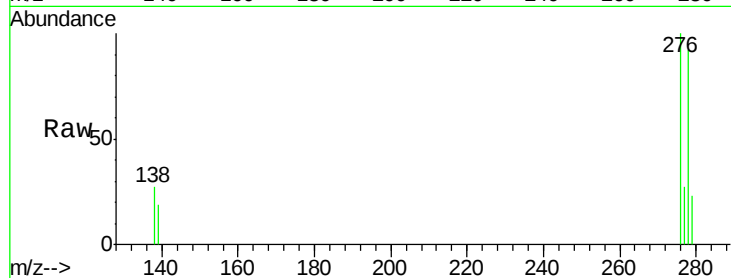


#25  
Dibenzo(a,h)anthracene  
Concen: 0.37 ng/ul  
RT: 25.91 min Scan# 1779  
Delta R.T. -0.02 min  
Lab File: BM007352.D  
Acq: 30 Aug 2016 21:05

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02039

Tgt Ion: 278 Resp: 9228  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 20.5  | 16.4  | 24.6  |
| 279 | 24.6  | 20.2  | 30.2  |



#26  
Benzo(g,h,i)perylene  
Concen: 0.37 ng/ul  
RT: 26.60 min Scan# 1845  
Delta R.T. -0.01 min  
Lab File: BM007352.D  
Acq: 30 Aug 2016 21:05

Tgt Ion: 276 Resp: 9971  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 24.9  | 18.9  | 28.3  |
| 138 | 24.7  | 22.5  | 33.7  |

