

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM102516\  
 Data File : BM007726.D  
 Acq On : 24 Oct 2016 20:37  
 Operator : UM/SJ  
 Sample : SSTD0.457  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.457

Quant Time: Oct 25 01:46:41 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM102516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 25 01:45:49 2016  
 Response via : Initial Calibration

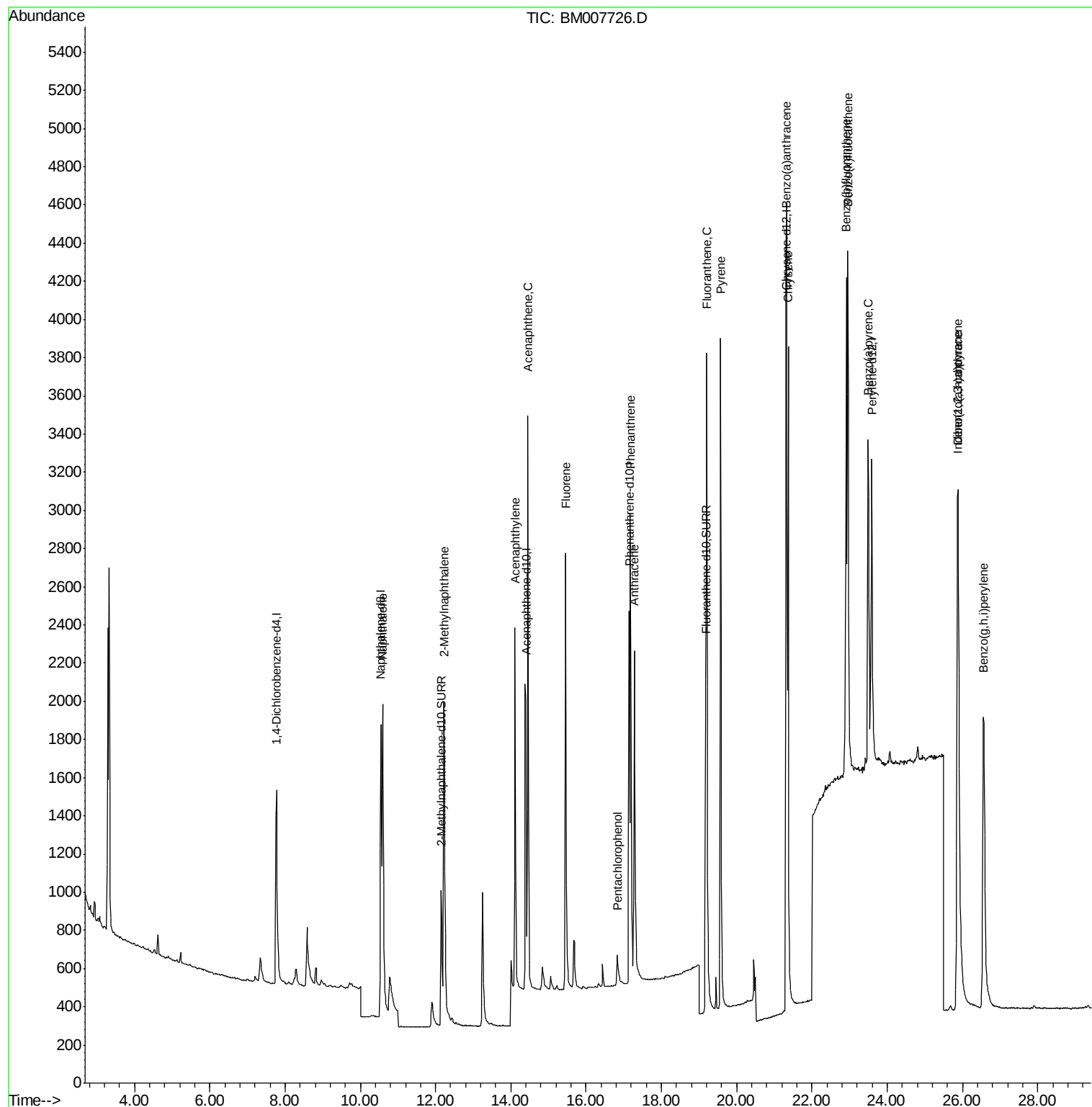
| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.77  | 152  | 910      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8           | 10.55 | 136  | 2916     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10         | 14.40 | 164  | 1334     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10        | 17.14 | 188  | 2935     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12            | 21.32 | 240  | 2804     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12            | 23.59 | 264  | 2741     | 0.40 | ng/ul | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 4) 2-Methylnaphthalene-d10  | 12.15 | 152  | 1428     | 0.42 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 19.18 | 212  | 2810     | 0.40 | ng/ul | 0.00     |
| Target Compounds            |       |      |          |      |       | Qvalue   |
| 3) Naphthalene              | 10.60 | 128  | 3091     | 0.44 | ng/ul | 100      |
| 5) 2-Methylnaphthalene      | 12.23 | 142  | 1960     | 0.42 | ng/ul | 100      |
| 7) Acenaphthylene           | 14.11 | 152  | 2669     | 0.45 | ng/ul | 100      |
| 8) Acenaphthene             | 14.45 | 153  | 2051     | 0.45 | ng/ul | 100      |
| 9) Fluorene                 | 15.46 | 166  | 2230     | 0.41 | ng/ul | 100      |
| 11) Pentachlorophenol       | 16.83 | 266  | 252      | 0.32 | ng/ul | 99       |
| 12) Phenanthrene            | 17.18 | 178  | 3458     | 0.43 | ng/ul | 100      |
| 13) Anthracene              | 17.28 | 178  | 3052     | 0.42 | ng/ul | 100      |
| 15) Fluoranthene            | 19.21 | 202  | 4135     | 0.41 | ng/ul | 100      |
| 17) Pyrene                  | 19.57 | 202  | 4275     | 0.45 | ng/ul | 100      |
| 18) Benzo(a)anthracene      | 21.31 | 228  | 3487     | 0.42 | ng/ul | 100      |
| 19) Chrysene                | 21.37 | 228  | 4225     | 0.46 | ng/ul | 100      |
| 21) Benzo(b)fluoranthene    | 22.91 | 252  | 4359     | 0.46 | ng/ul | 100      |
| 22) Benzo(k)fluoranthene    | 22.95 | 252  | 4156     | 0.44 | ng/ul | 100      |
| 23) Benzo(a)pyrene          | 23.49 | 252  | 3839     | 0.44 | ng/ul | 100      |
| 24) Indeno(1,2,3-cd)pyrene  | 25.87 | 276  | 4794     | 0.51 | ng/ul | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.88 | 278  | 3851     | 0.53 | ng/ul | 100      |
| 26) Benzo(g,h,i)perylene    | 26.56 | 276  | 4368     | 0.51 | ng/ul | 100      |

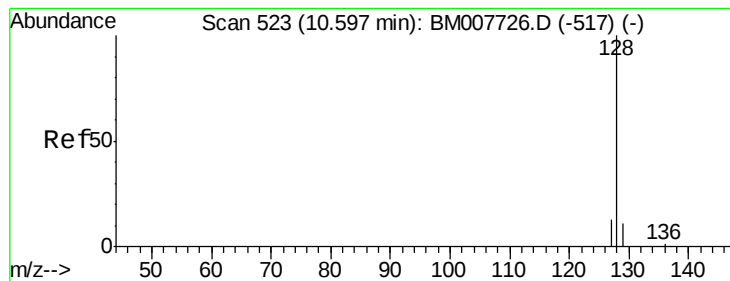
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.44 ng/ul

RT: 10.60 min Scan# 523

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

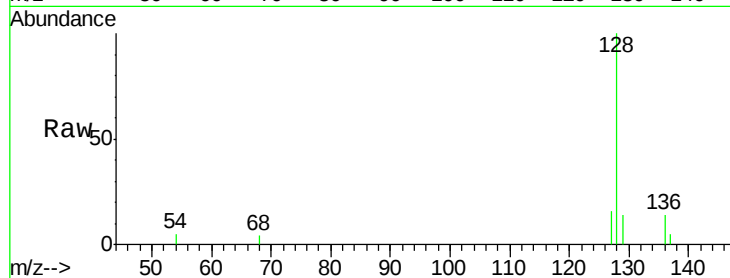
Tgt Ion:128 Resp: 3091

Ion Ratio Lower Upper

128 100

129 14.1 11.3 16.9

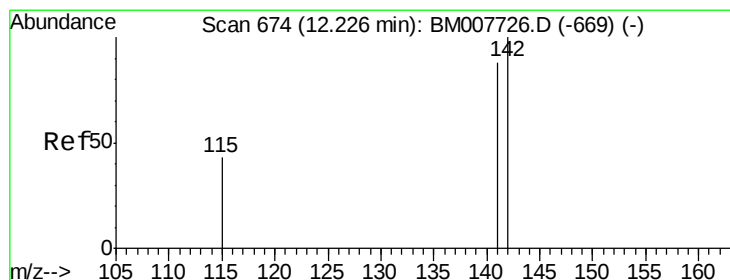
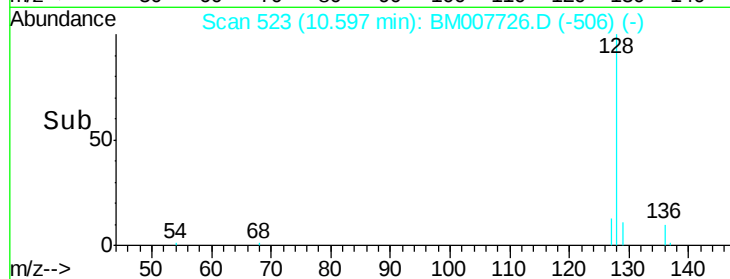
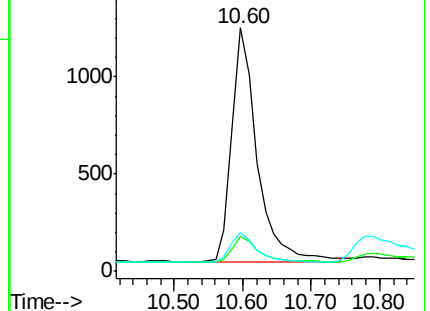
127 16.0 12.8 19.2



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: 0.42 ng/ul

RT: 12.23 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM007726.D

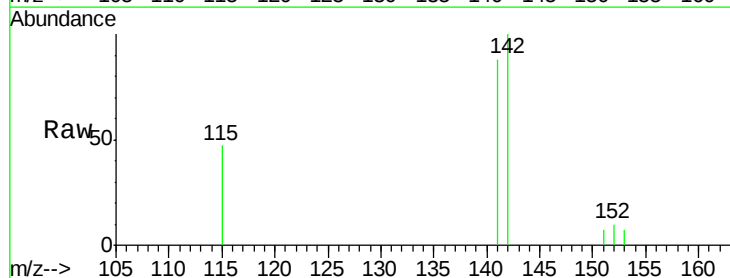
Acq: 24 Oct 2016 20:37

Tgt Ion:142 Resp: 1960

Ion Ratio Lower Upper

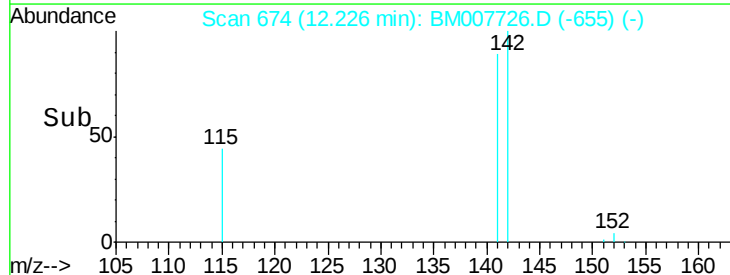
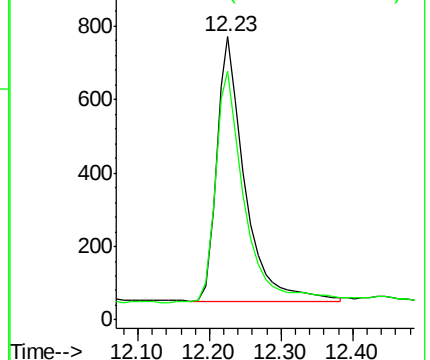
142 100

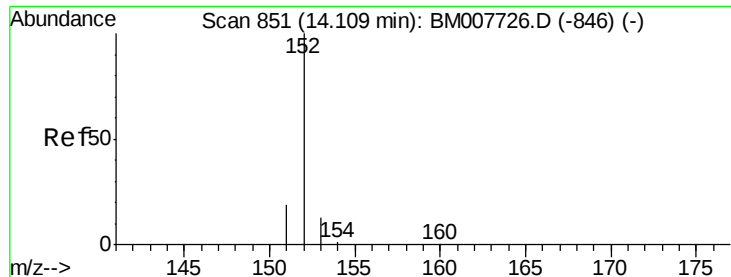
141 90.7 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.45 ng/ul

RT: 14.11 min Scan# 851

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

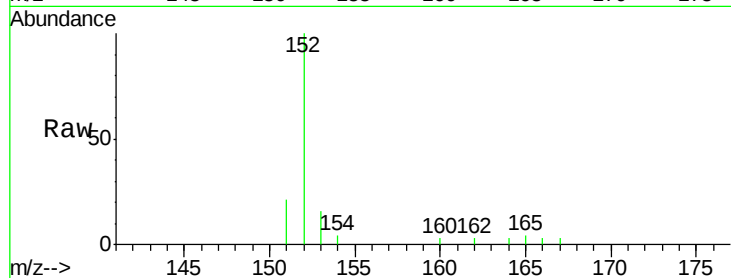
Tgt Ion:152 Resp: 2669

Ion Ratio Lower Upper

152 100

151 21.4 17.1 25.7

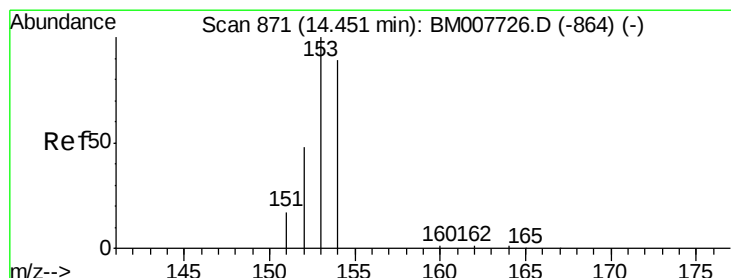
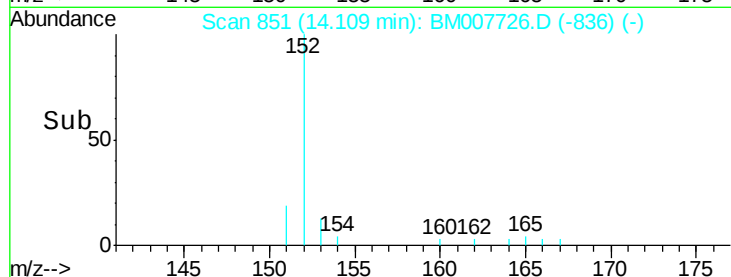
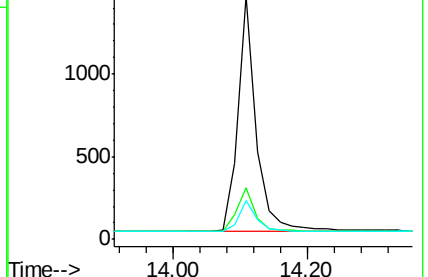
153 16.0 12.8 19.2



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: 0.45 ng/ul

RT: 14.45 min Scan# 871

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

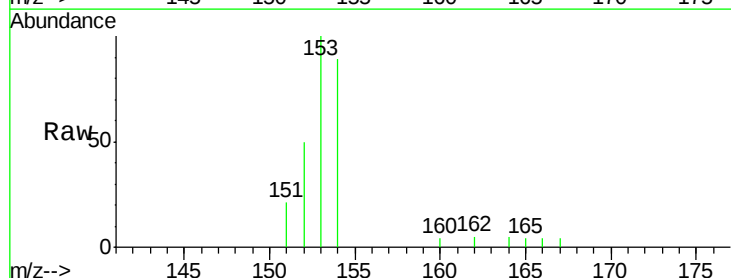
Tgt Ion:153 Resp: 2051

Ion Ratio Lower Upper

153 100

152 50.4 40.3 60.5

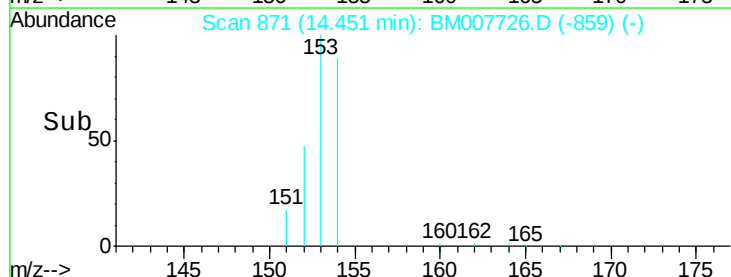
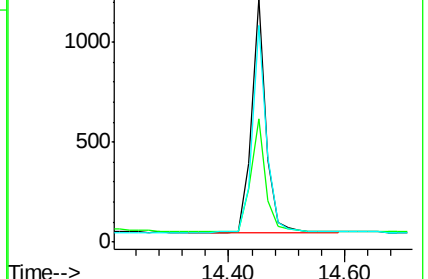
154 89.3 71.4 107.2

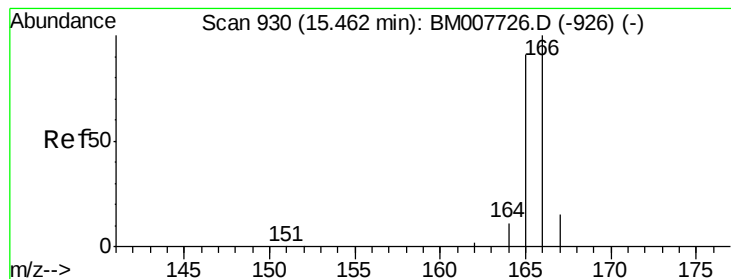


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.41 ng/ul

RT: 15.46 min Scan# 930

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

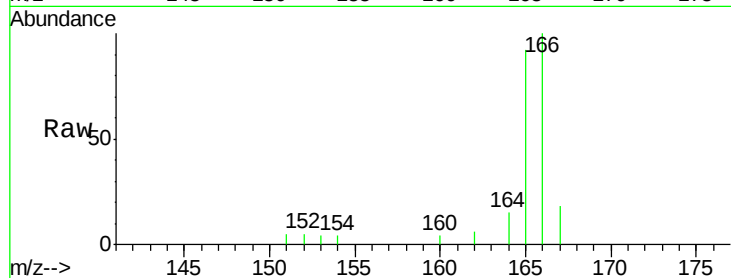
Tgt Ion:166 Resp: 2230

Ion Ratio Lower Upper

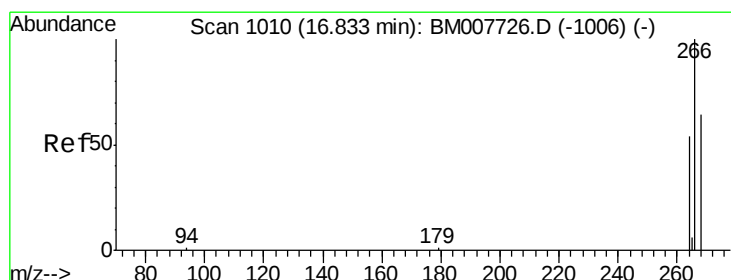
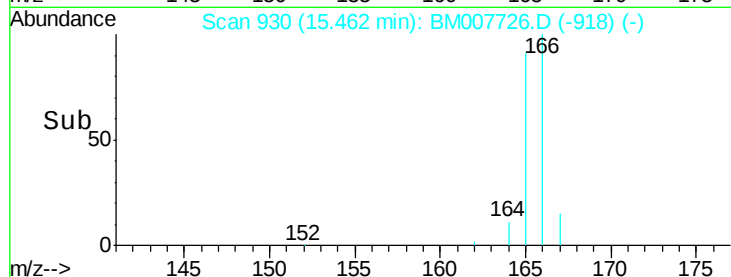
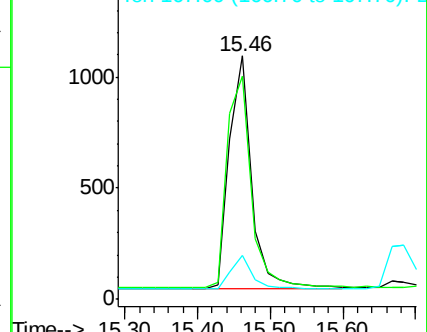
166 100

165 91.8 73.4 110.2

167 18.3 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: 0.32 ng/ul

RT: 16.83 min Scan# 1010

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

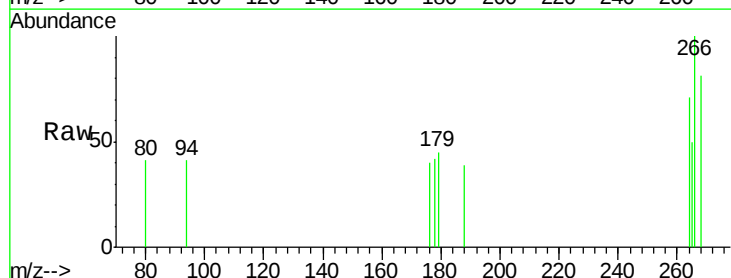
Tgt Ion:266 Resp: 252

Ion Ratio Lower Upper

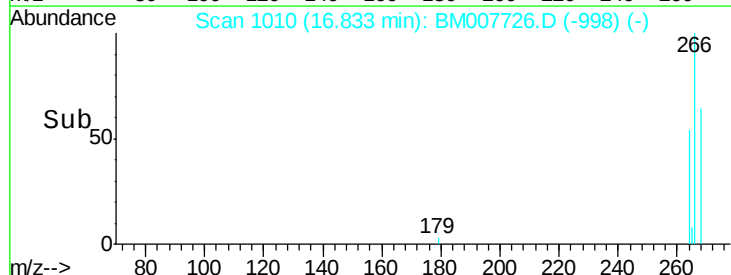
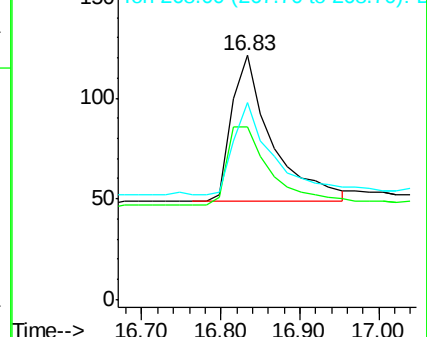
266 100

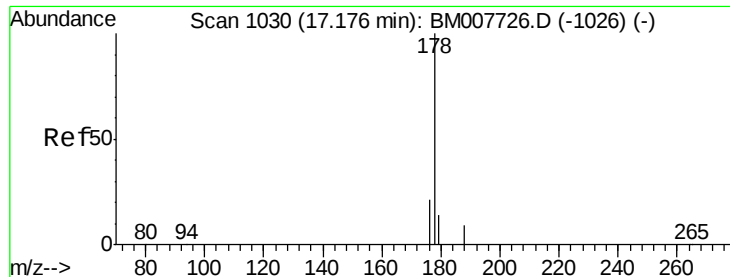
264 60.7 47.9 71.9

268 62.7 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: 0.43 ng/ul

RT: 17.18 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

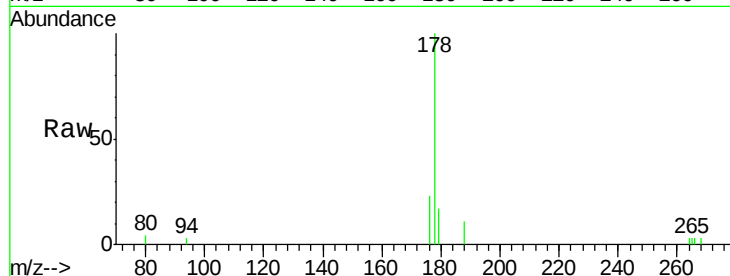
Tgt Ion:178 Resp: 3458

Ion Ratio Lower Upper

178 100

176 23.0 18.4 27.6

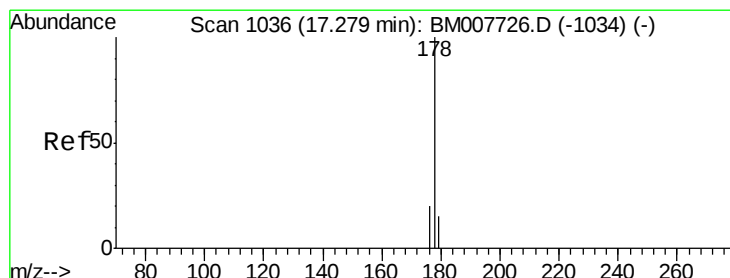
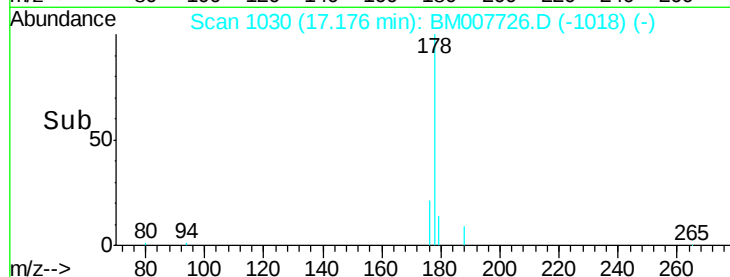
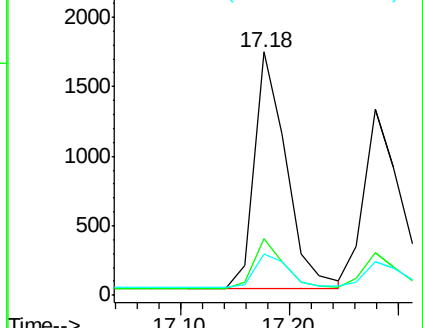
179 17.0 13.6 20.4



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



#13

Anthracene

Concen: 0.42 ng/ul

RT: 17.28 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

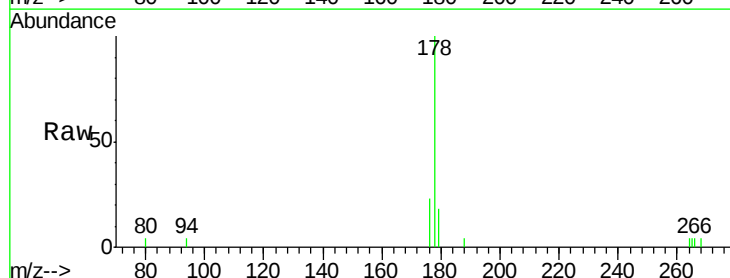
Tgt Ion:178 Resp: 3052

Ion Ratio Lower Upper

178 100

176 22.6 18.1 27.1

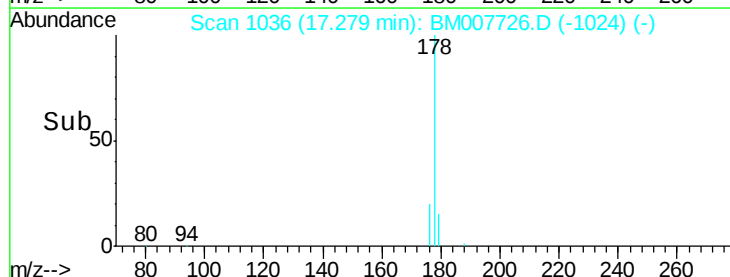
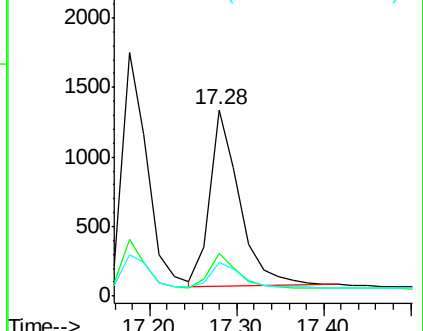
179 18.4 14.7 22.1

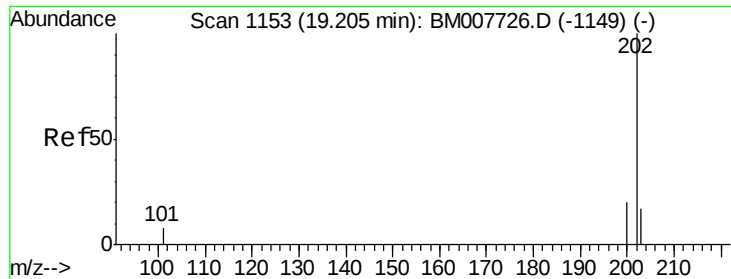


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.41 ng/ul

RT: 19.21 min Scan# 1153

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

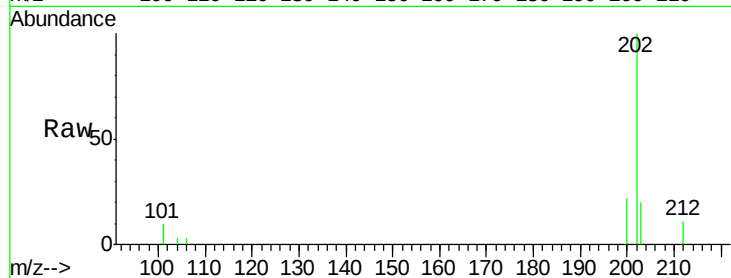
Tgt Ion:202 Resp: 4135

Ion Ratio Lower Upper

202 100

101 10.3 0.0 30.3

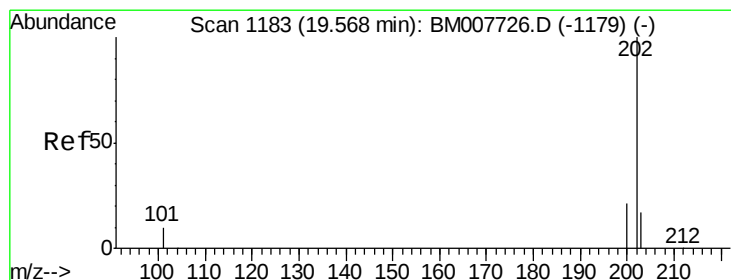
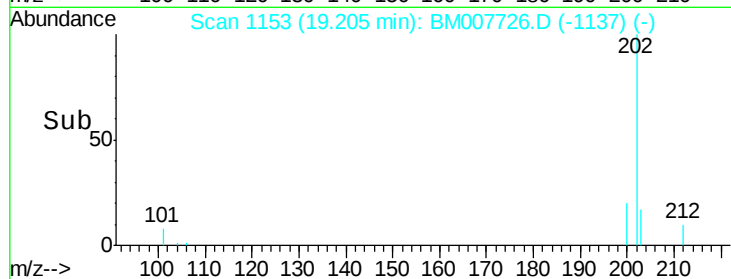
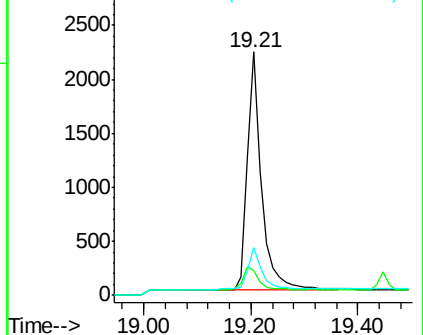
203 19.5 0.0 39.5



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: 0.45 ng/ul

RT: 19.57 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

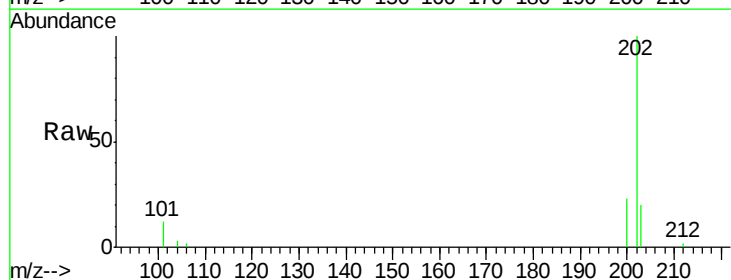
Tgt Ion:202 Resp: 4275

Ion Ratio Lower Upper

202 100

200 22.8 18.2 27.4

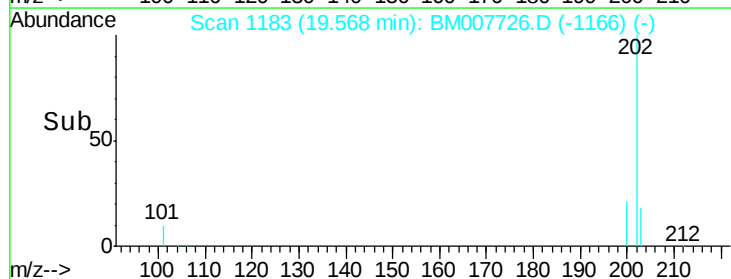
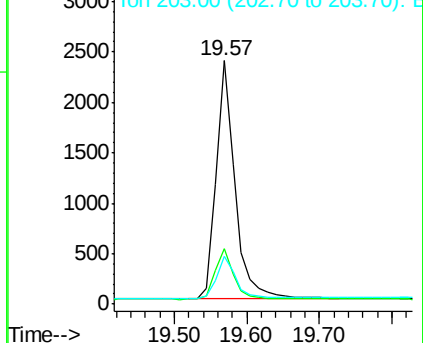
203 19.5 15.6 23.4

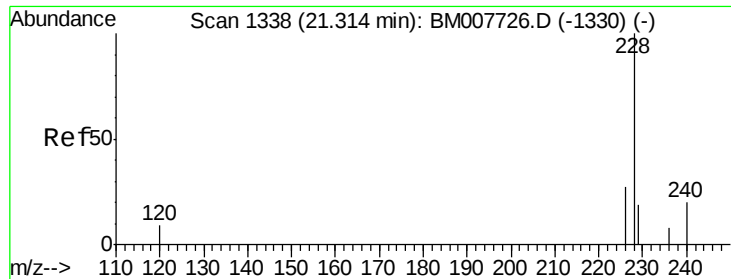


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.42 ng/ul

RT: 21.31 min Scan# 1338

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

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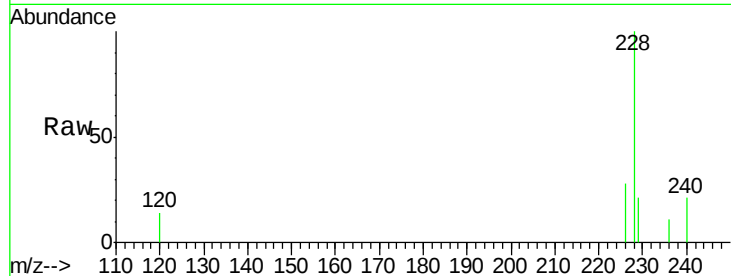
Tgt Ion:228 Resp: 3487

Ion Ratio Lower Upper

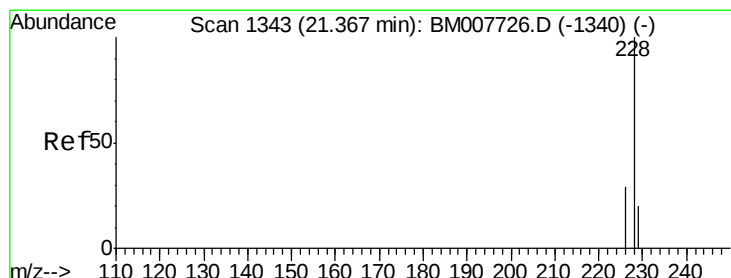
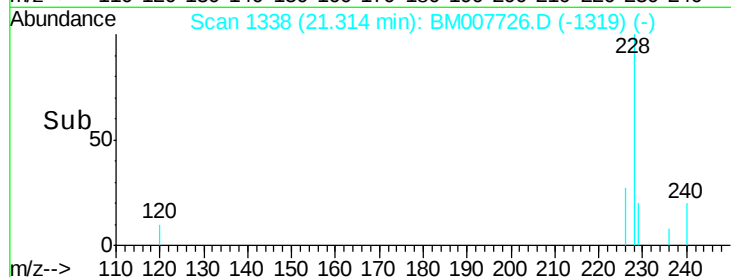
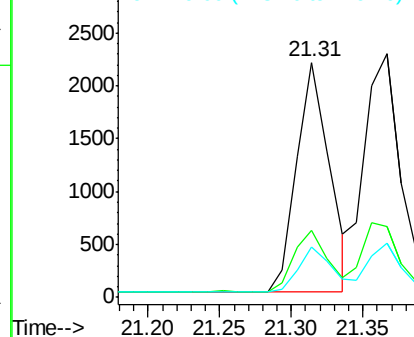
228 100

226 28.5 22.8 34.2

229 21.3 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: 0.46 ng/ul

RT: 21.37 min Scan# 1343

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

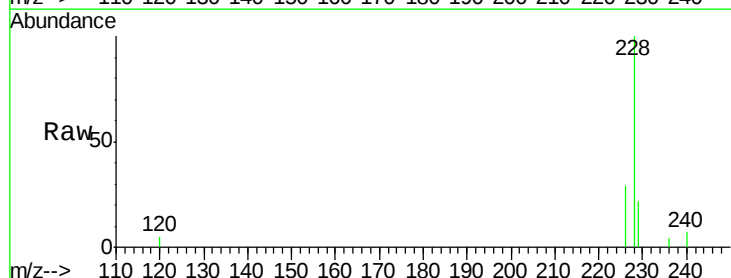
Tgt Ion:228 Resp: 4225

Ion Ratio Lower Upper

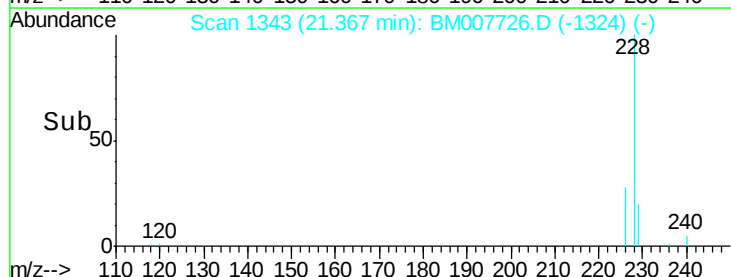
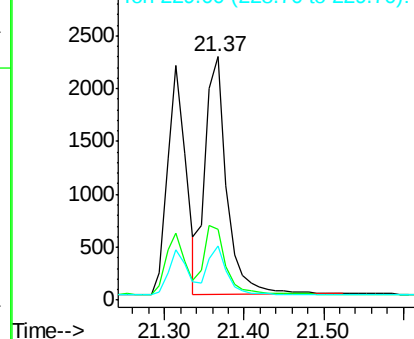
228 100

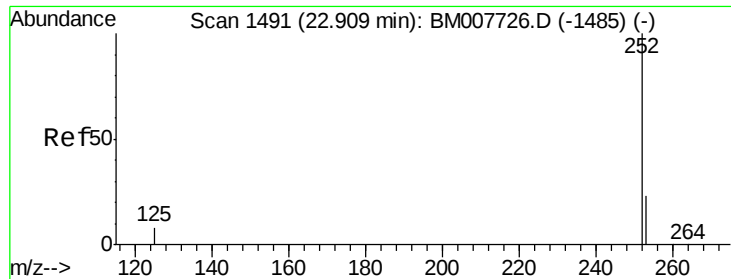
226 29.2 23.4 35.0

229 22.1 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: 0.46 ng/u1

RT: 22.91 min Scan# 1491

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

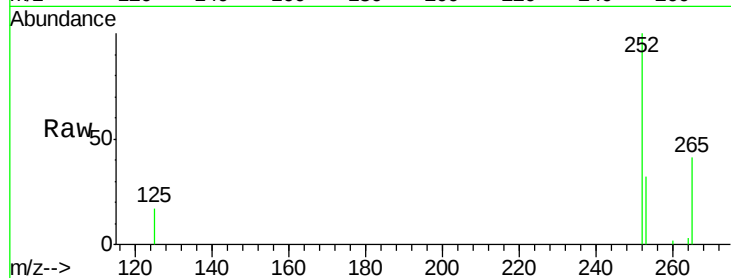
Tgt Ion:252 Resp: 4359

Ion Ratio Lower Upper

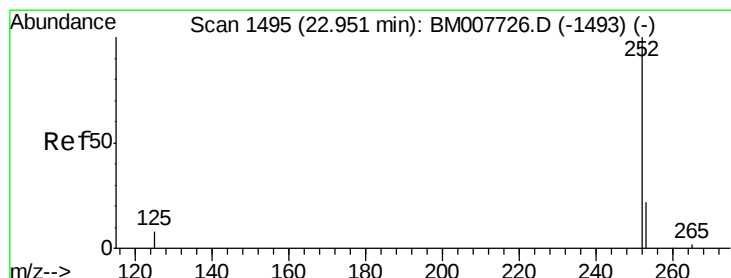
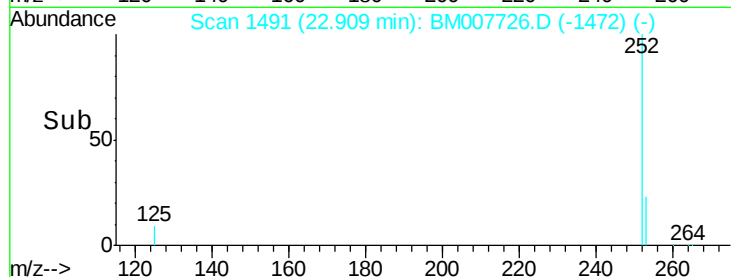
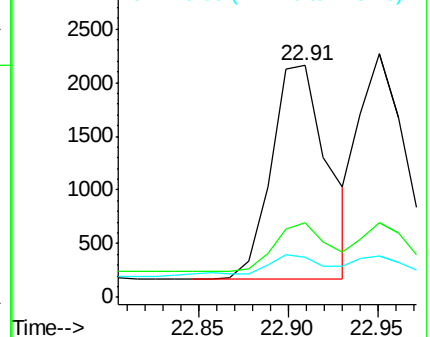
252 100

253 32.1 0.0 64.2

125 17.5 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: 0.44 ng/u1

RT: 22.95 min Scan# 1495

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

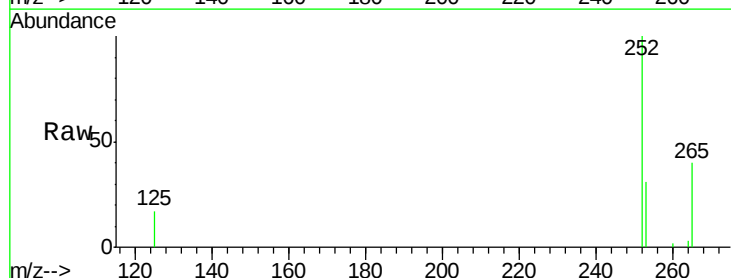
Tgt Ion:252 Resp: 4156

Ion Ratio Lower Upper

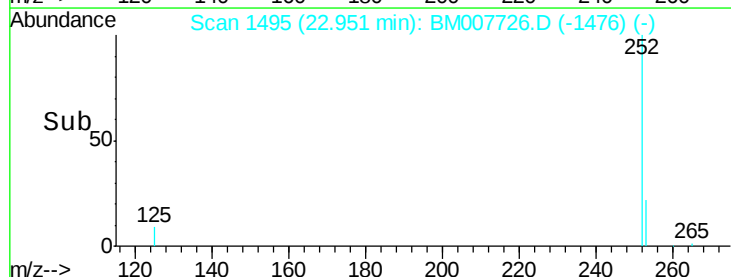
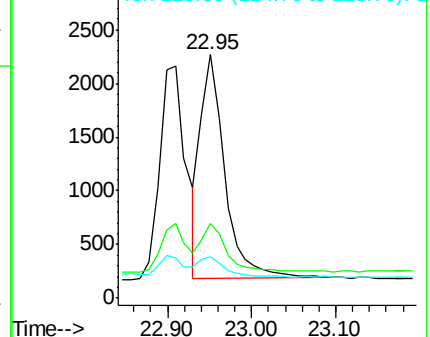
252 100

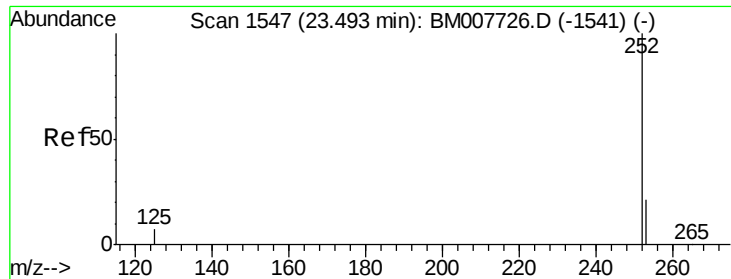
253 30.6 24.5 36.7

125 17.1 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: 0.44 ng/ul

RT: 23.49 min Scan# 1547

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

Instrument :

BNA\_M

ClientSampleId :

SSTD0.457

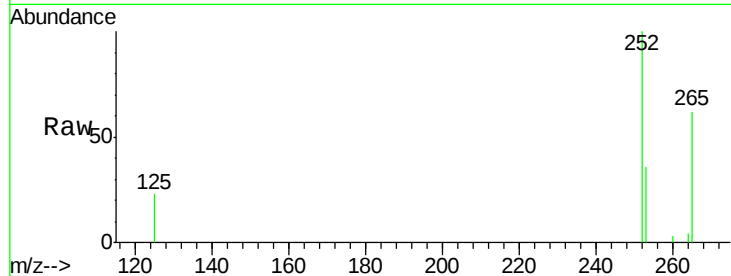
Tgt Ion:252 Resp: 3839

Ion Ratio Lower Upper

252 100

253 35.6 28.5 42.7

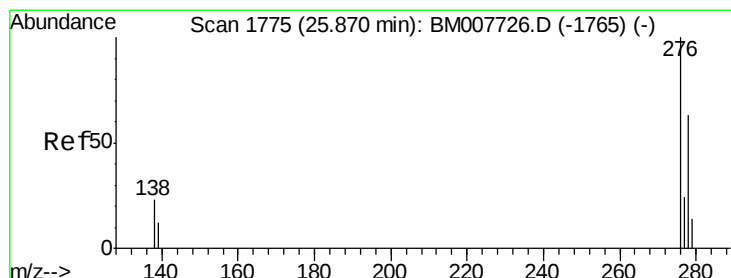
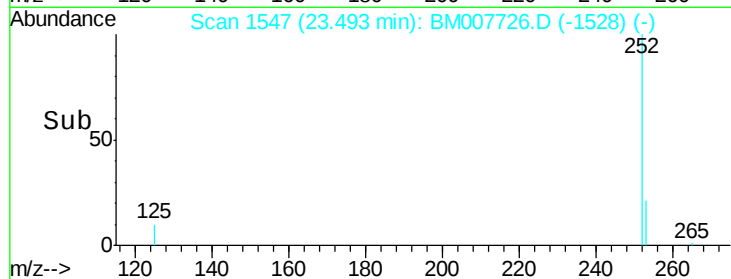
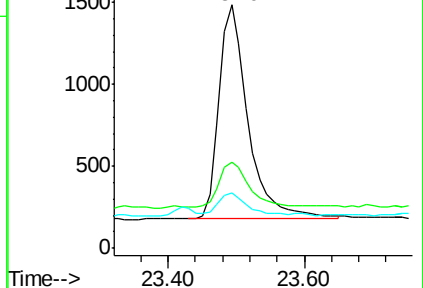
125 22.6 18.1 27.1



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: 0.51 ng/ul

RT: 25.87 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BM007726.D

Acq: 24 Oct 2016 20:37

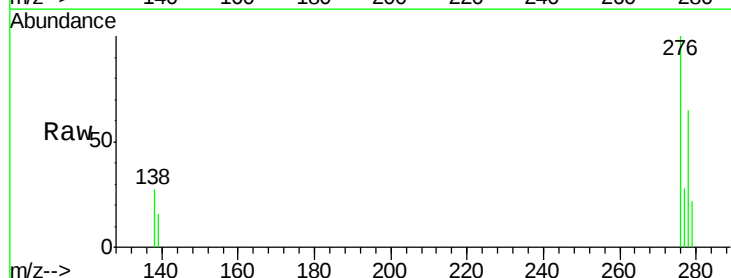
Tgt Ion:276 Resp: 4794

Ion Ratio Lower Upper

276 100

138 24.0 19.1 28.7

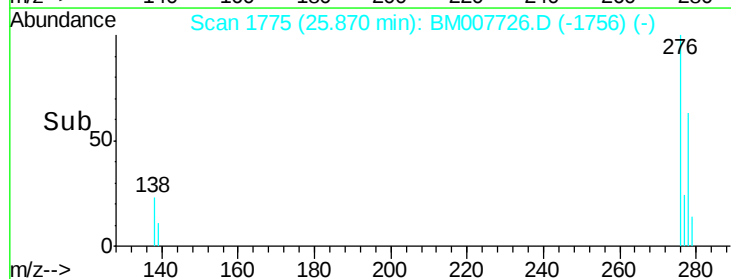
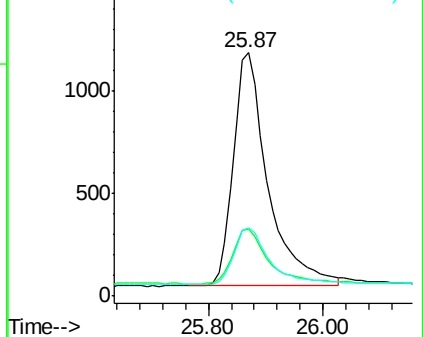
277 24.5 19.6 29.4

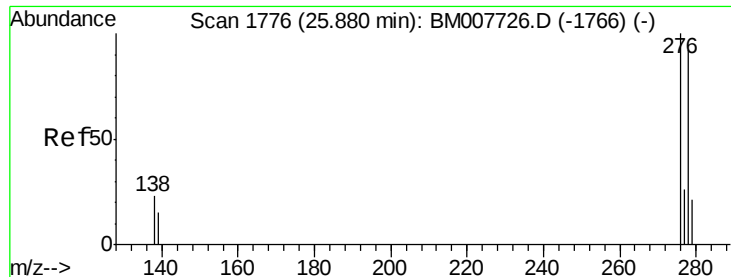


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



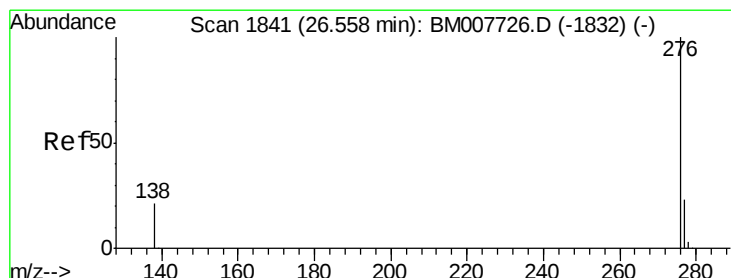
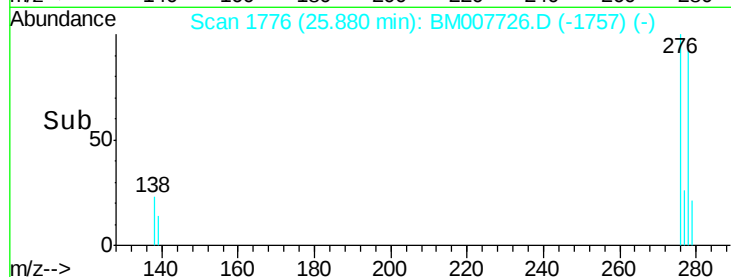
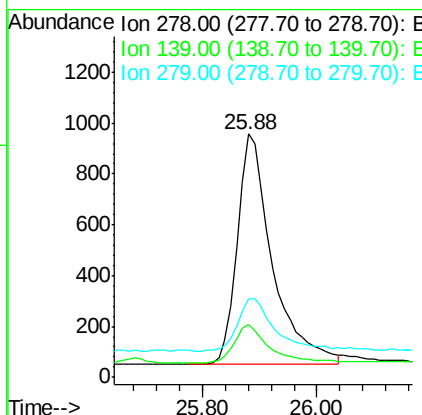
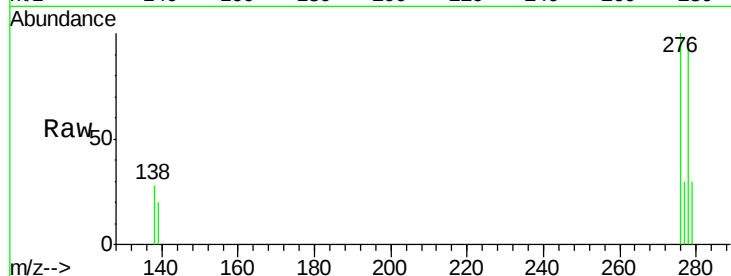


#25  
Dibenzo(a,h)anthracene  
Concen: 0.53 ng/ul  
RT: 25.88 min Scan# 1776  
Delta R.T. 0.00 min  
Lab File: BM007726.D  
Acq: 24 Oct 2016 20:37

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.457

Tgt Ion: 278 Resp: 3851  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 21.7  | 17.4  | 26.0  |
| 279 | 32.4  | 25.9  | 38.9  |



#26  
Benzo(g,h,i)perylene  
Concen: 0.51 ng/ul  
RT: 26.56 min Scan# 1841  
Delta R.T. 0.00 min  
Lab File: BM007726.D  
Acq: 24 Oct 2016 20:37

Tgt Ion: 276 Resp: 4368  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 27.3  | 21.8  | 32.8  |
| 138 | 25.6  | 20.5  | 30.7  |

