

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081815\  
 Data File : BM002485.D  
 Acq On : 18 Aug 2015 16:20  
 Operator : UM/IZ  
 Sample : G3227-20DL 2X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DD9DL

Quant Time: Aug 18 17:53:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 18 03:02:54 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 109307   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 495965   | 20.00 | ng/ul | -0.01    |
| 6) Acenaphthene-d10       | 15.46 | 164  | 259604   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.17 | 188  | 535472   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.25 | 240  | 404284   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.93 | 264  | 379026   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.16 | 160  | 365902   | 13.79 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.43 | 176  | 249262   | 13.37 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.26 | 188  | 364760   | 14.12 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.49 | 212  | 326686   | 18.23 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.76 | 264  | 259801   | 13.05 | ng/ul | 0.00     |

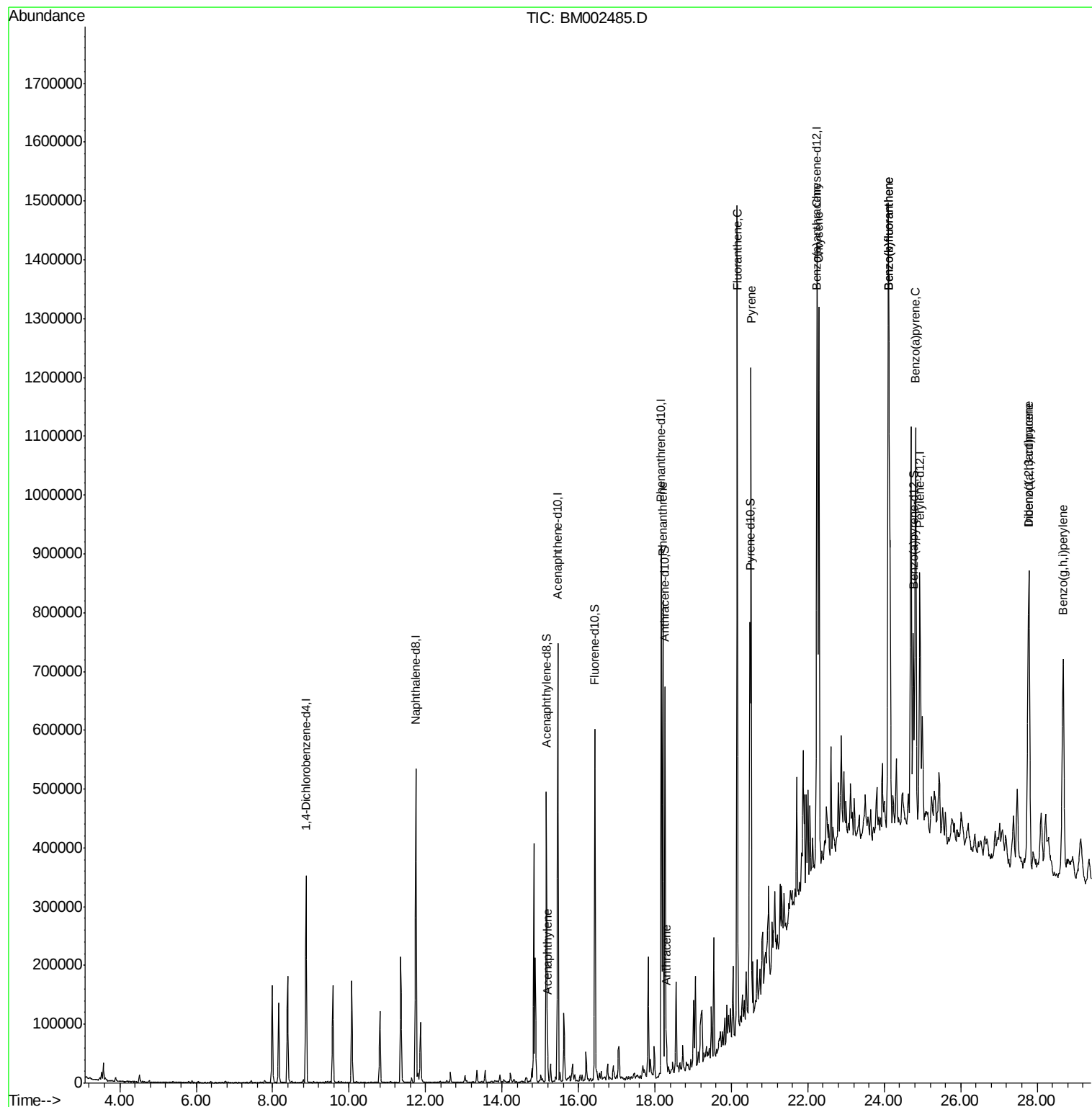
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 8) Acenaphthylene          | 15.19 | 152  | 38799    | 1.40  | ng/ul  | 98     |
| 13) Phenanthrene           | 18.21 | 178  | 502160   | 16.24 | ng/ul  | 100    |
| 15) Anthracene             | 18.30 | 178  | 46562    | 1.49  | ng/ul  | 96     |
| 16) Fluoranthene           | 20.16 | 202  | 833281   | 23.80 | ng/ul  | 99     |
| 19) Pyrene                 | 20.51 | 202  | 660966   | 27.91 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.23 | 228  | 451887   | 18.69 | ng/ul  | 98     |
| 21) Chrysene               | 22.29 | 228  | 574380   | 25.40 | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 24.11 | 252  | 1017371  | 44.40 | ng/ul  | 97     |
| 24) Benzo(k)fluoranthene   | 24.11 | 252  | 286057   | 13.17 | ng/ul  | 98     |
| 26) Benzo(a)pyrene         | 24.82 | 252  | 578103   | 26.41 | ng/ul  | 99     |
| 27) Indeno(1,2,3-cd)pyrene | 27.79 | 276  | 560552   | 22.27 | ng/ul  | 94     |
| 28) Dibenzo(a,h)anthracene | 27.77 | 278  | 184160   | 8.75  | ng/ul# | 91     |
| 29) Benzo(g,h,i)perylene   | 28.68 | 276  | 504899   | 24.10 | ng/ul  | 99     |

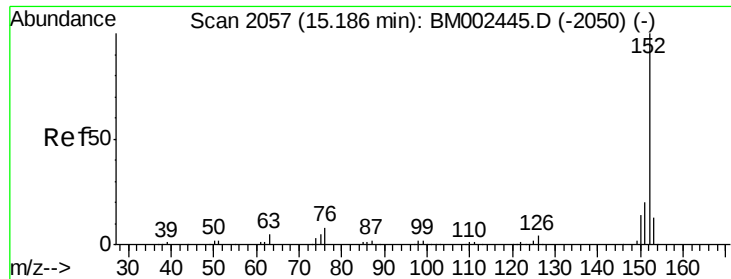
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081815\  
Data File : BM002485.D  
Acq On : 18 Aug 2015 16:20  
Operator : UM/IZ  
Sample : G3227-20DL 2X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
D9DD9DL

Quant Time: Aug 18 17:53:06 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 18 03:02:54 2015  
Response via : Initial Calibration





#8

Acenaphthylene

Concen: 1.40 ng/ul

RT: 15.19 min Scan# 2058

Delta R.T. -0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

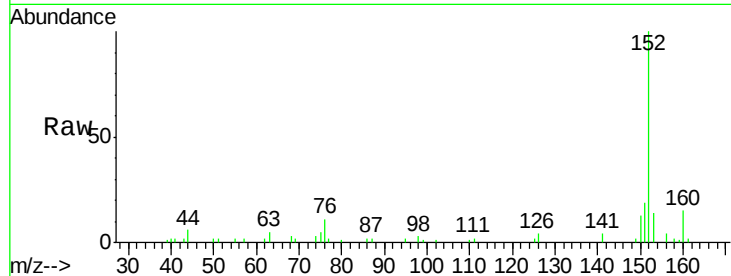
Tgt Ion:152 Resp: 38799

Ion Ratio Lower Upper

152 100

151 18.7 15.7 23.5

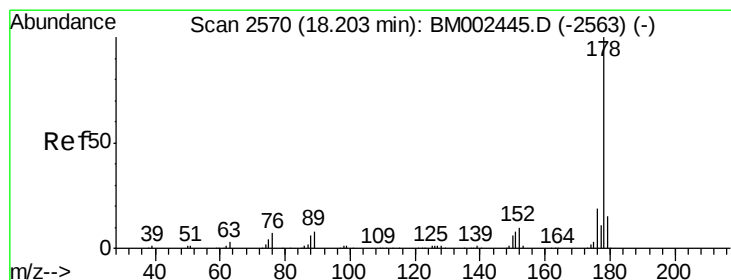
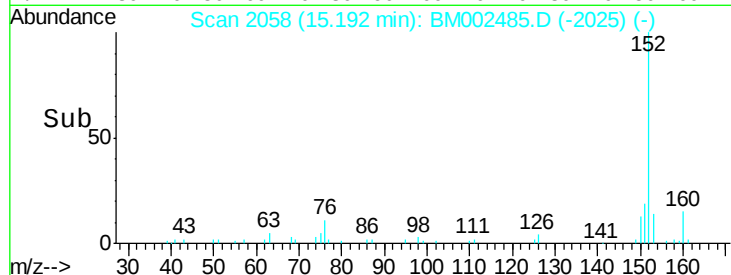
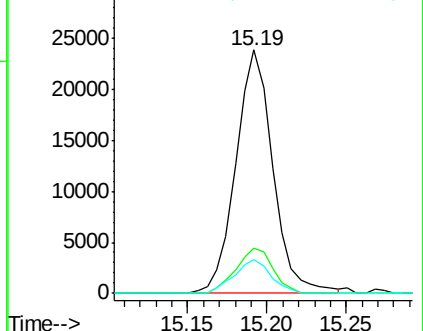
153 13.7 10.2 15.4



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



#13

Phenanthrene

Concen: 16.24 ng/ul

RT: 18.21 min Scan# 2571

Delta R.T. -0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

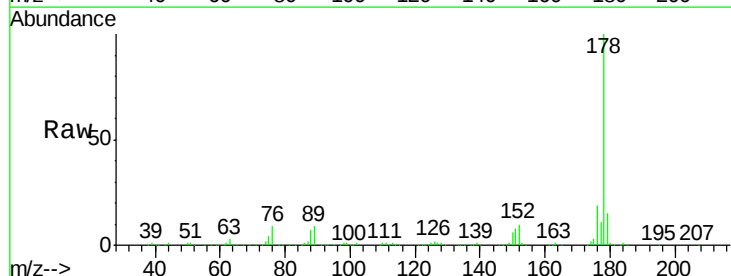
Tgt Ion:178 Resp: 502160

Ion Ratio Lower Upper

178 100

179 15.4 12.4 18.6

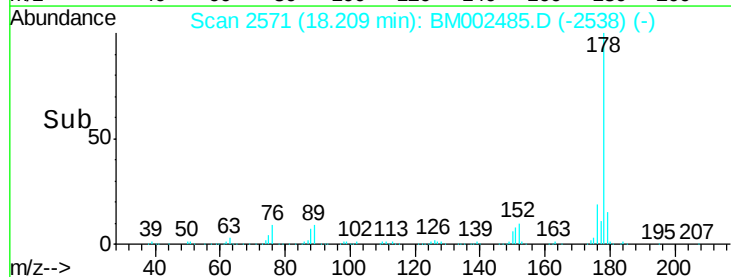
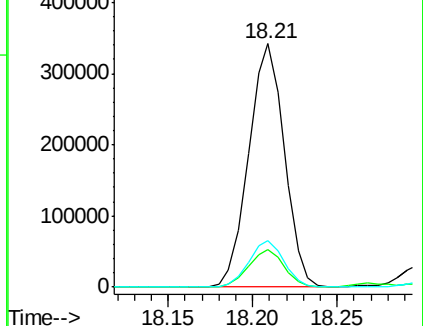
176 19.2 15.1 22.7

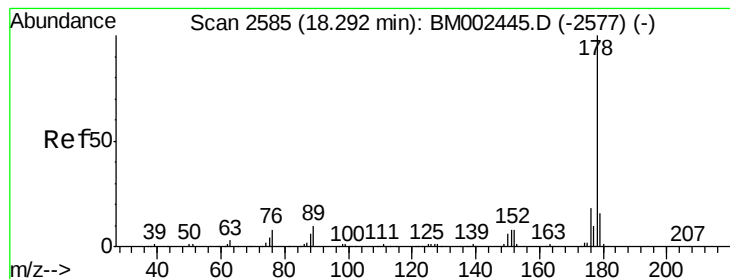


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Anthracene

Concen: 1.49 ng/ul

RT: 18.30 min Scan# 2586

Delta R.T. -0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

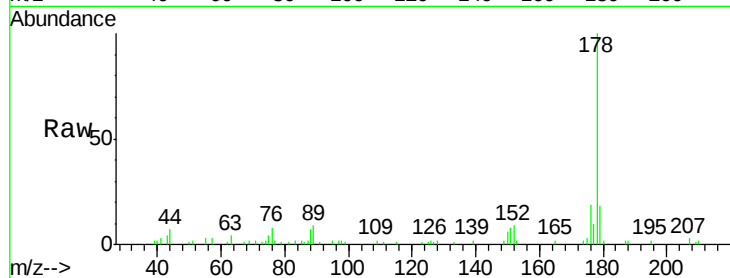
Tgt Ion:178 Resp: 46562

Ion Ratio Lower Upper

178 100

179 17.7 12.6 18.8

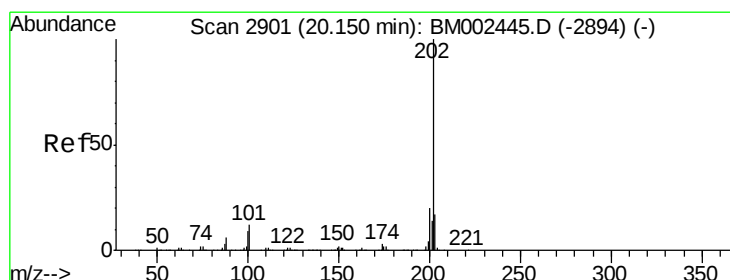
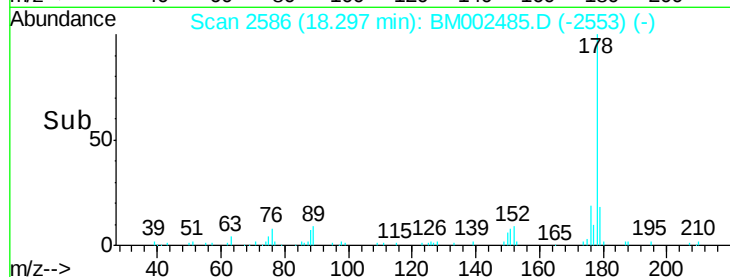
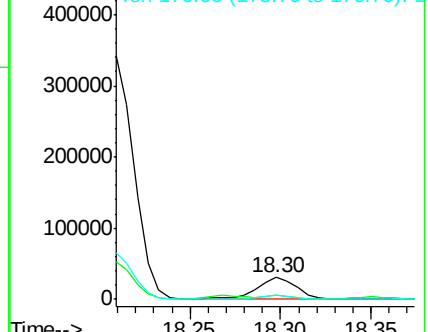
176 19.2 14.5 21.7



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: 23.80 ng/ul

RT: 20.16 min Scan# 2902

Delta R.T. -0.00 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

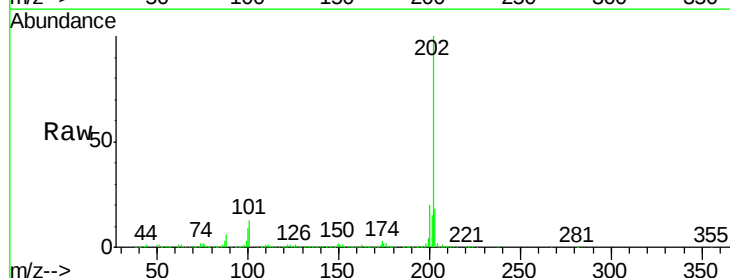
Tgt Ion:202 Resp: 833281

Ion Ratio Lower Upper

202 100

101 12.9 9.7 14.5

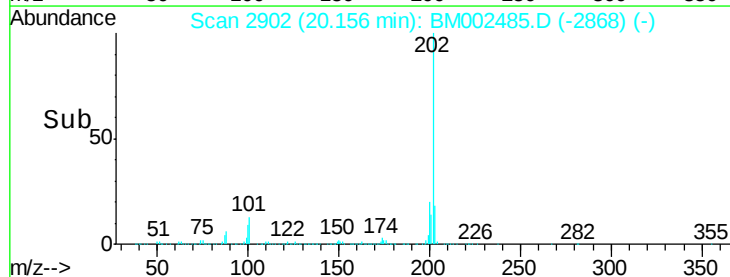
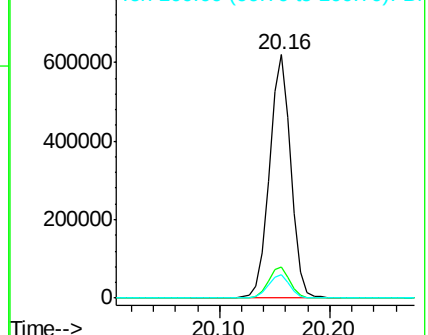
100 9.5 7.4 11.2

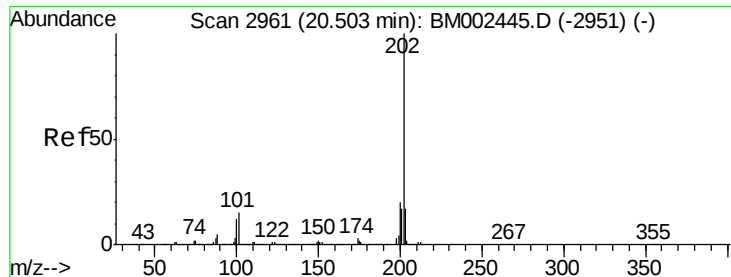


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#19

Pyrene

Concen: 27.91 ng/ul

RT: 20.51 min Scan# 2962

Delta R.T. -0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

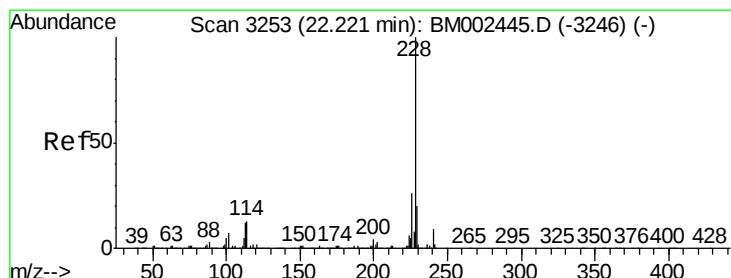
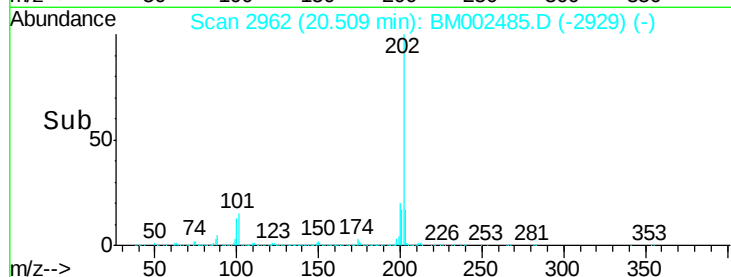
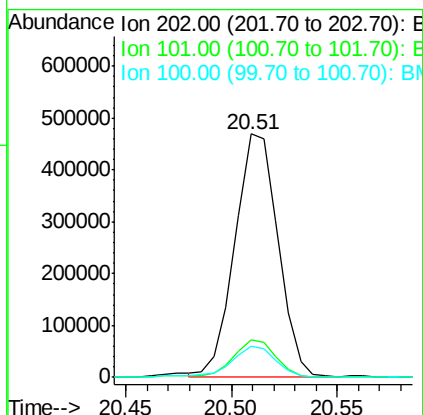
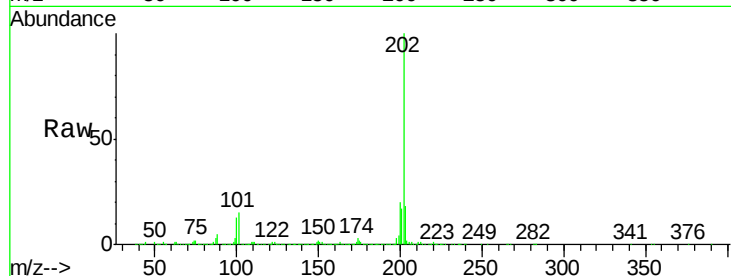
Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 660966 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 15.2  | 12.0  | 18.0   |
| 100      | 12.6  | 9.7   | 14.5   |



#20

Benzo(a)anthracene

Concen: 18.69 ng/ul

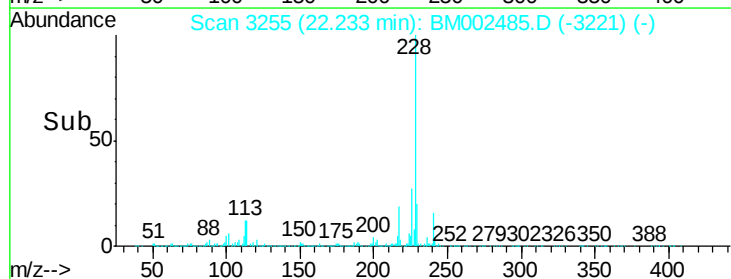
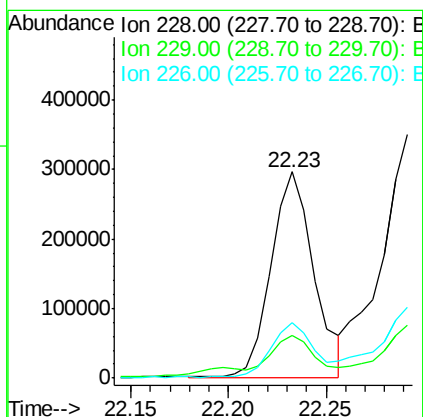
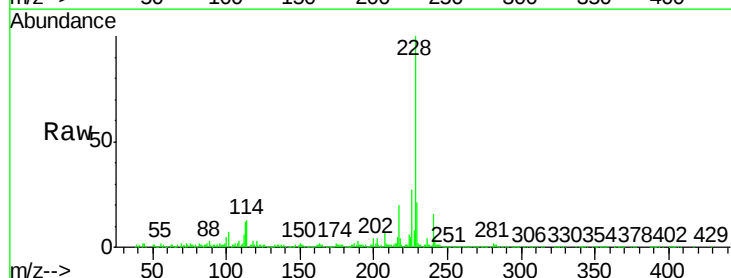
RT: 22.23 min Scan# 3255

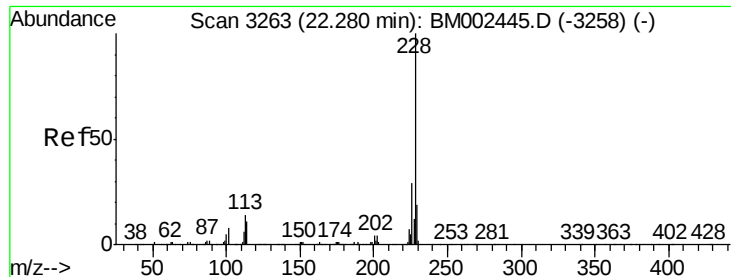
Delta R.T. -0.00 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 451887 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 229      | 21.0  | 15.8  | 23.6   |
| 226      | 27.1  | 21.1  | 31.7   |





#21

Chrysene

Concen: 25.40 ng/ul

RT: 22.29 min Scan# 3265

Delta R.T. -0.00 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

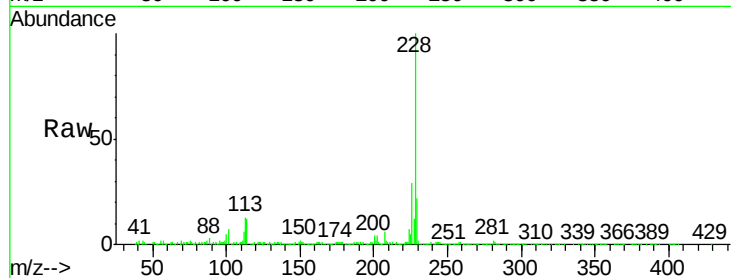
Tgt Ion:228 Resp: 574380

Ion Ratio Lower Upper

228 100

226 29.3 23.4 35.2

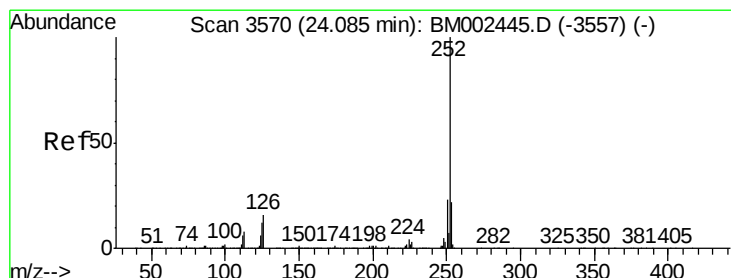
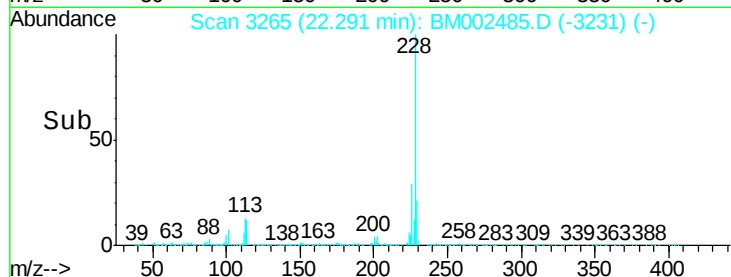
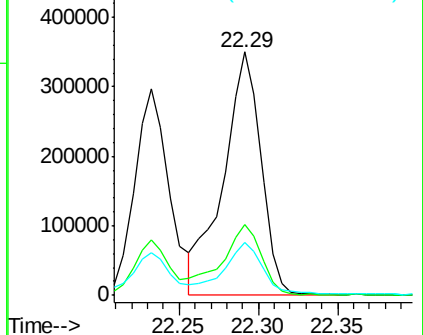
229 21.6 15.7 23.5



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: 44.40 ng/ul

RT: 24.11 min Scan# 3574

Delta R.T. 0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

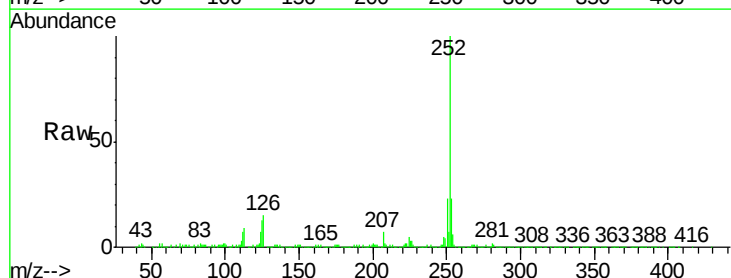
Tgt Ion:252 Resp: 1017371

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

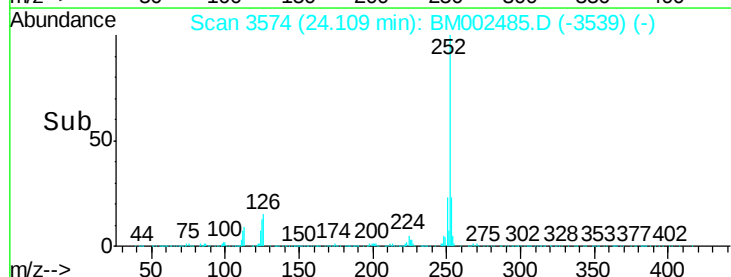
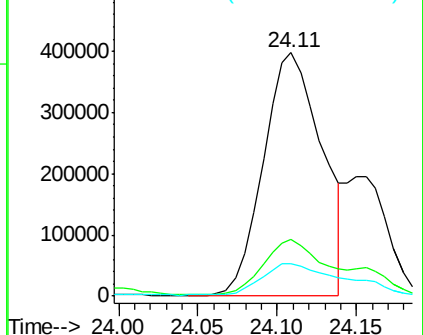
125 13.4 10.0 15.0

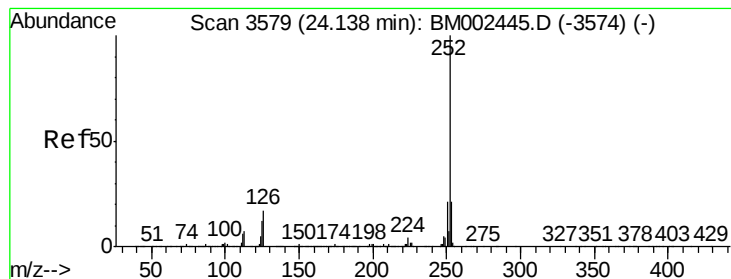


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 13.17 ng/ul

RT: 24.11 min Scan# 3574

Delta R.T. -0.05 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

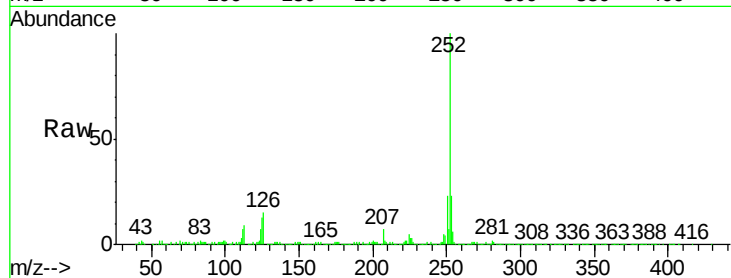
Tgt Ion:252 Resp: 286057

Ion Ratio Lower Upper

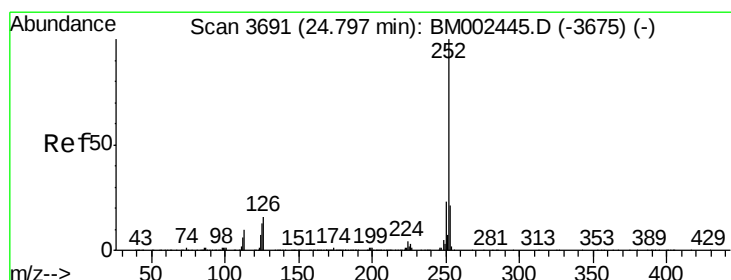
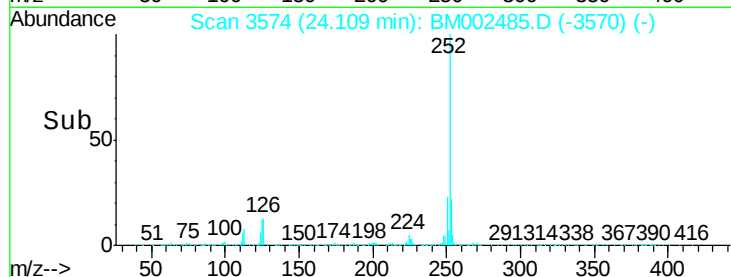
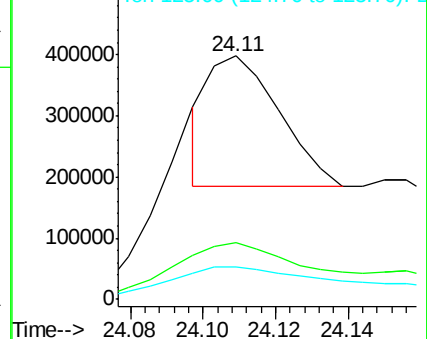
252 100

253 23.1 17.8 26.6

125 13.4 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: 26.41 ng/ul

RT: 24.82 min Scan# 3695

Delta R.T. 0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

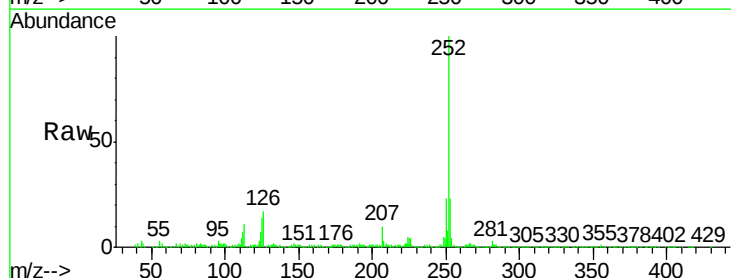
Tgt Ion:252 Resp: 578103

Ion Ratio Lower Upper

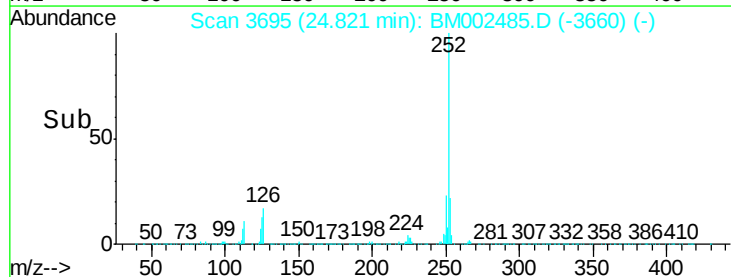
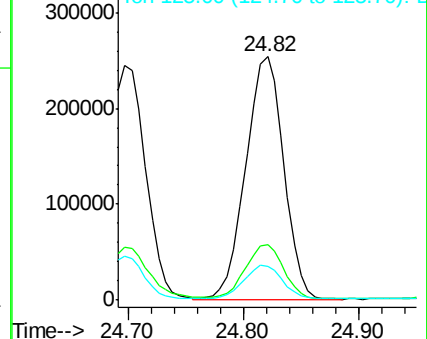
252 100

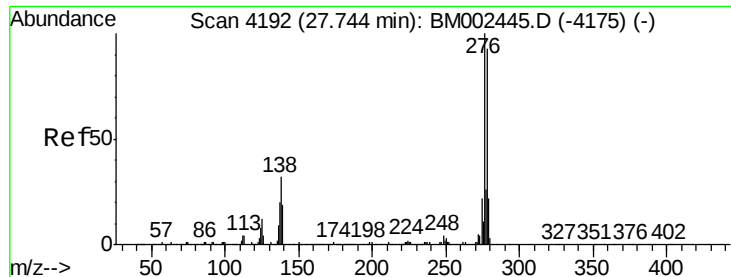
253 22.8 17.6 26.4

125 13.8 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: 22.27 ng/ul

RT: 27.79 min Scan# 4199

Delta R.T. 0.01 min

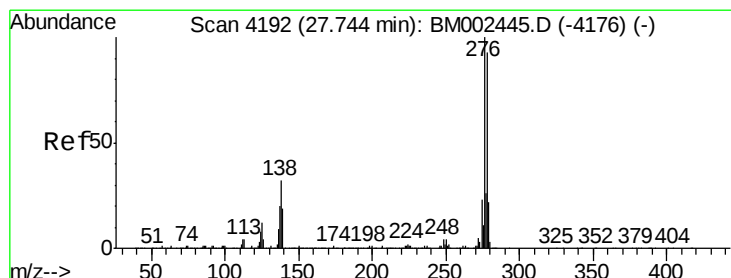
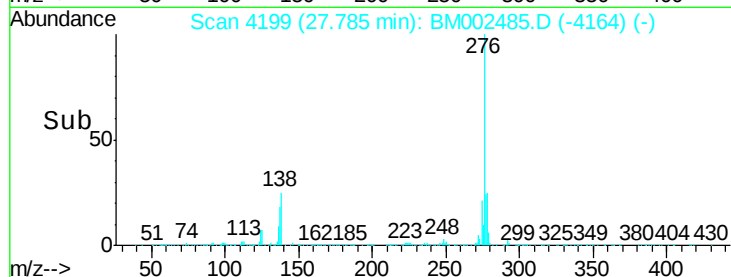
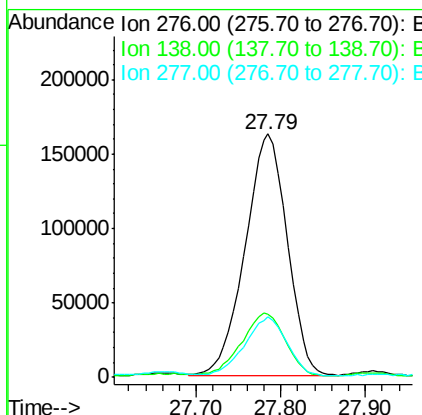
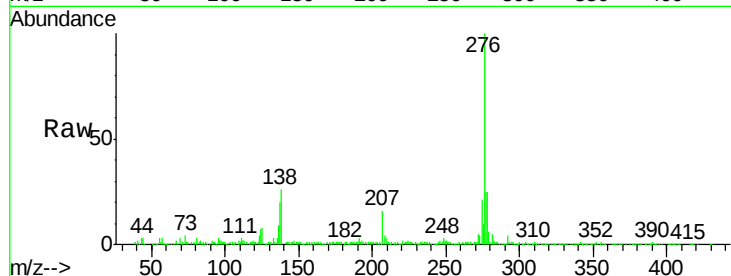
Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :  
BNA\_M  
ClientSampleId :  
D9DD9DL

Tgt Ion: 276 Resp: 560552

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 25.7  | 25.3  | 37.9  |
| 277 | 25.0  | 20.2  | 30.2  |



#28

Dibenzo(a,h)anthracene

Concen: 8.75 ng/ul

RT: 27.77 min Scan# 4197

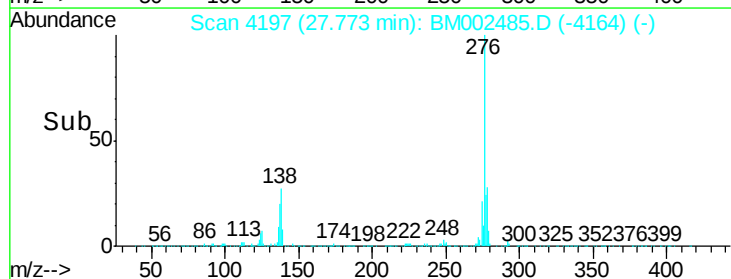
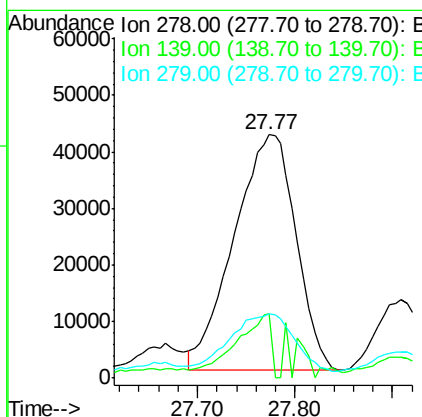
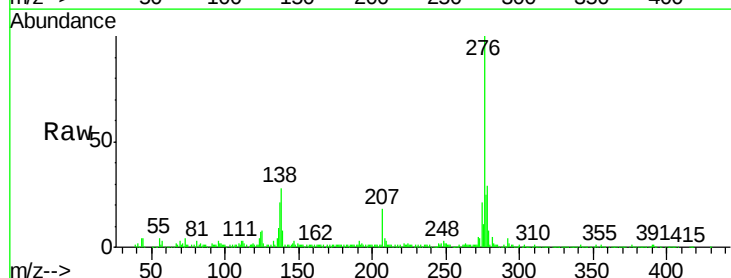
Delta R.T. -0.01 min

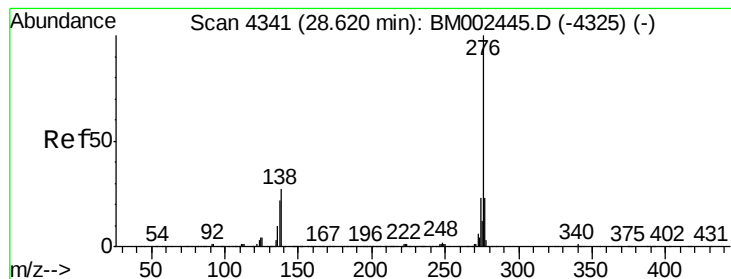
Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Tgt Ion: 278 Resp: 184160

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 26.4  | 16.5  | 24.7# |
| 279 | 26.5  | 18.8  | 28.2  |





#29

Benzo(g,h,i)perylene

Concen: 24.10 ng/ul

RT: 28.68 min Scan# 4351

Delta R.T. 0.01 min

Lab File: BM002485.D

Acq: 18 Aug 2015 16:20

Instrument :

BNA\_M

ClientSampleId :

D9DD9DL

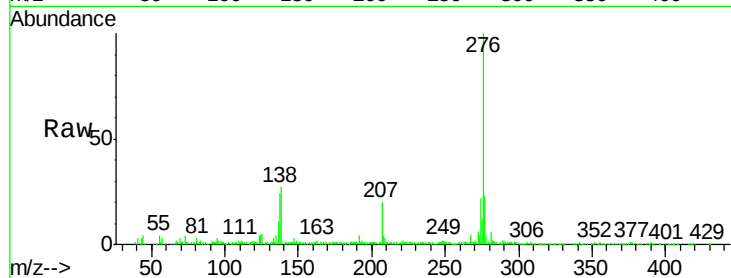
Tgt Ion:276 Resp: 504899

Ion Ratio Lower Upper

276 100

138 26.9 21.0 31.6

277 23.3 19.2 28.8



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

