

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\  
 Data File : BM002430.D  
 Acq On : 15 Aug 2015 18:24  
 Operator : UM/IZ  
 Sample : G3194-14  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DB5

Quant Time: Aug 17 05:17:37 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 05:12:59 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 174012   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 764590   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 380234   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.16 | 188  | 700141   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 481846   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.90 | 264  | 457927   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.16 | 160  | 623391   | 16.04 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 413649   | 15.15 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.25 | 188  | 543457   | 16.09 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 441743   | 20.68 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.73 | 264  | 356800   | 14.83 | ng/ul | 0.00     |

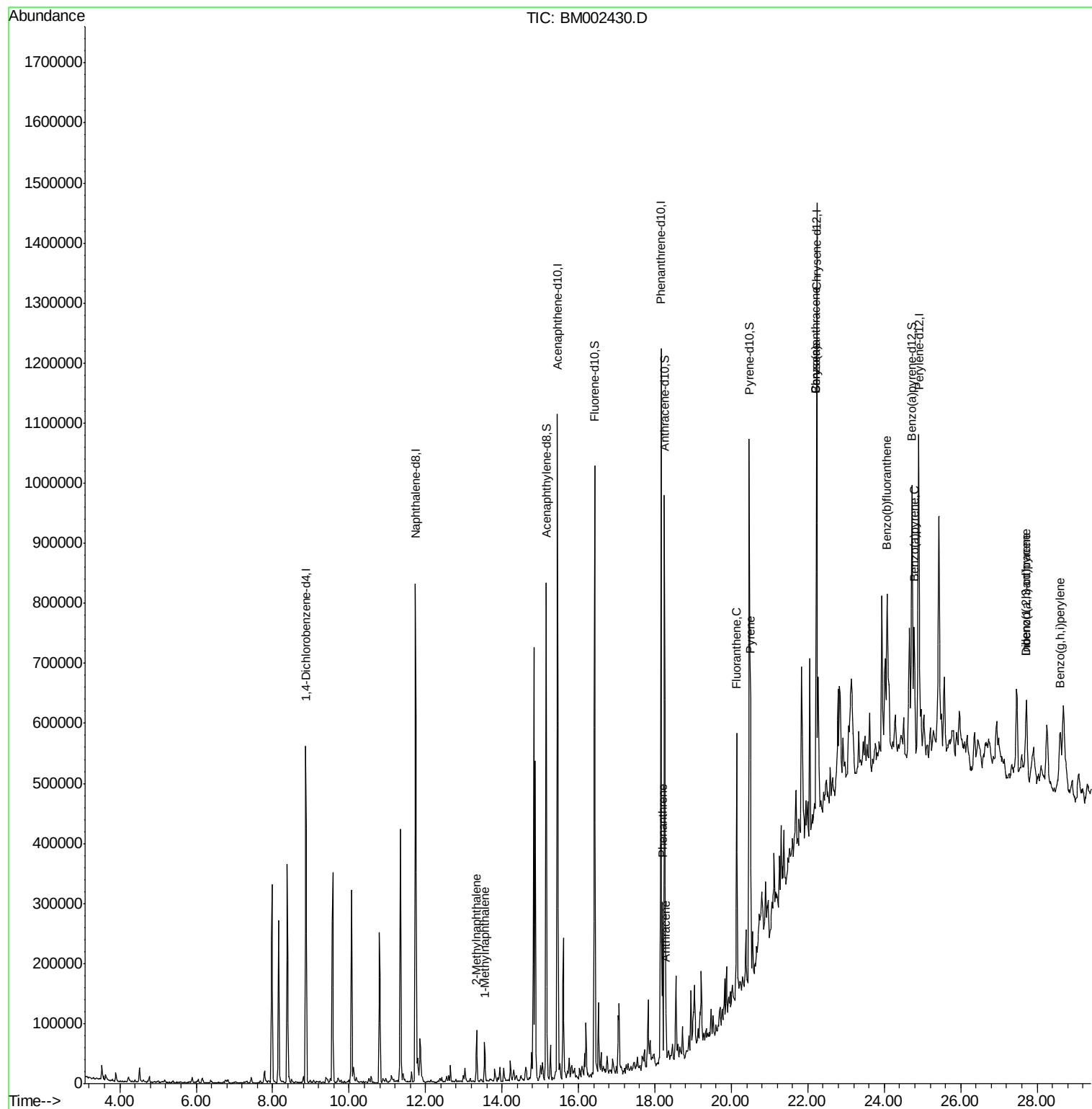
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 4) 2-Methylnaphthalene     | 13.33 | 142  | 43901    | 1.50 | ng/ul  | 96     |
| 5) 1-Methylnaphthalene     | 13.55 | 142  | 33048    | 1.14 | ng/ul  | 100    |
| 13) Phenanthrene           | 18.20 | 178  | 158997   | 3.93 | ng/ul  | 99     |
| 15) Anthracene             | 18.29 | 178  | 50594    | 1.23 | ng/ul  | 99     |
| 16) Fluoranthene           | 20.14 | 202  | 264107   | 5.77 | ng/ul  | 98     |
| 19) Pyrene                 | 20.50 | 202  | 252029   | 8.93 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.22 | 228  | 142426   | 4.94 | ng/ul  | 96     |
| 21) Chrysene               | 22.22 | 228  | 141275   | 5.24 | ng/ul  | 96     |
| 23) Benzo(b)fluoranthene   | 24.07 | 252  | 242175   | 8.75 | ng/ul# | 94     |
| 26) Benzo(a)pyrene         | 24.78 | 252  | 147259   | 5.57 | ng/ul# | 94     |
| 27) Indeno(1,2,3-cd)pyrene | 27.72 | 276  | 108034   | 3.55 | ng/ul  | 94     |
| 28) Dibenzo(a,h)anthracene | 27.71 | 278  | 33310    | 1.31 | ng/ul# | 63     |
| 29) Benzo(a,h,i)perylene   | 28.60 | 276  | 142551   | 5.63 | ng/ul  | 94     |

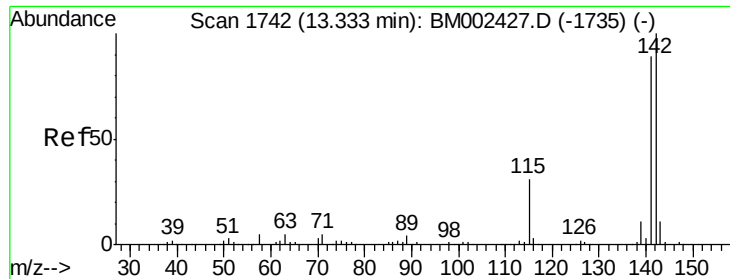
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 17 05:12:59 2015  
Response via : Initial Calibration





#4

2-Methylnaphthalene

Concen: 1.50 ng/ul

RT: 13.33 min Scan# 1742

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Instrument :

BNA\_M

ClientSampleId :

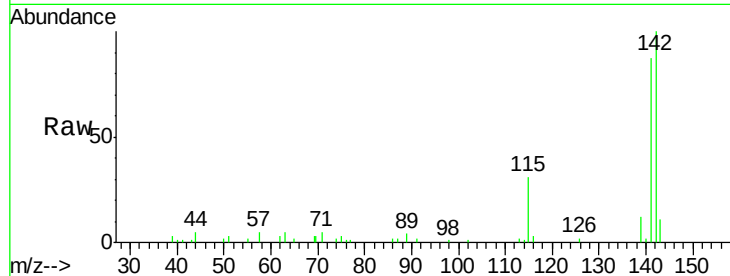
D9DB5

Tot Ion:142 Resp: 43901

Ion Ratio Lower Upper

142 100

141 86.6 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

30000

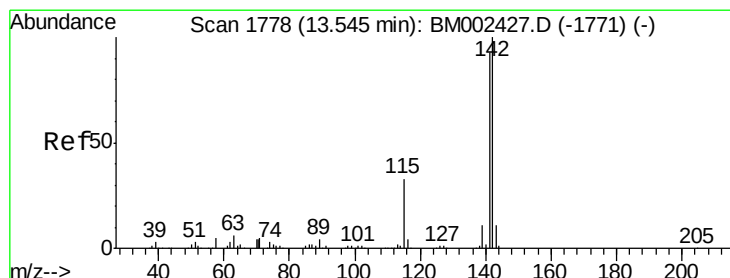
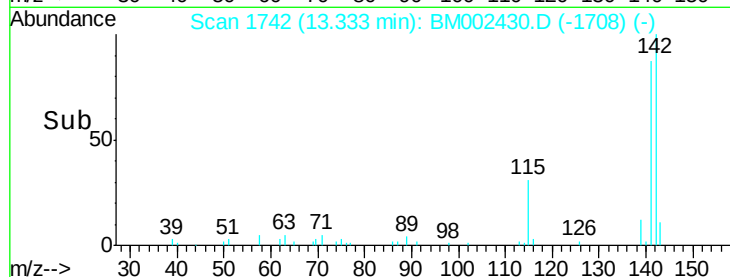
20000

10000

0

13.30 13.35

Time-->



#5

1-Methylnaphthalene

Concen: 1.14 ng/ul

RT: 13.55 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

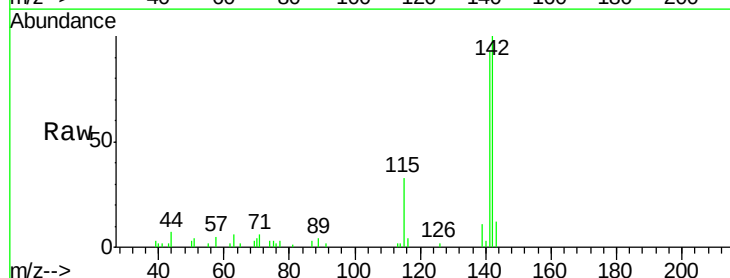
Tgt Ion:142 Resp: 33048

Ion Ratio Lower Upper

142 100

141 92.8 73.9 110.9

116 4.3 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

25000

20000

15000

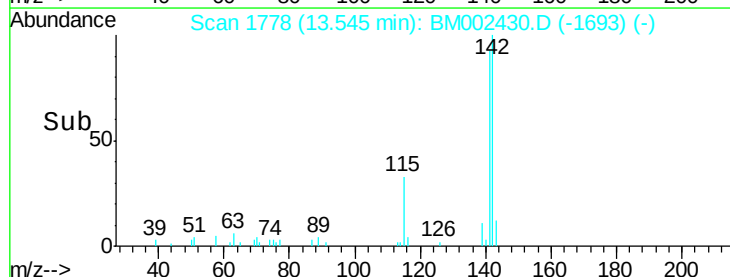
10000

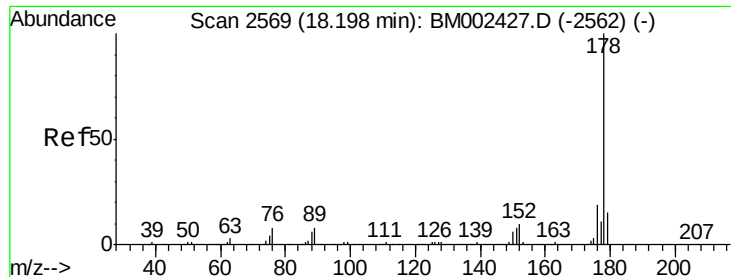
5000

0

13.50 13.55 13.60

Time-->





#13

Phenanthrene

Concen: 3.93 ng/ul

RT: 18.20 min Scan# 2569

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Instrument :

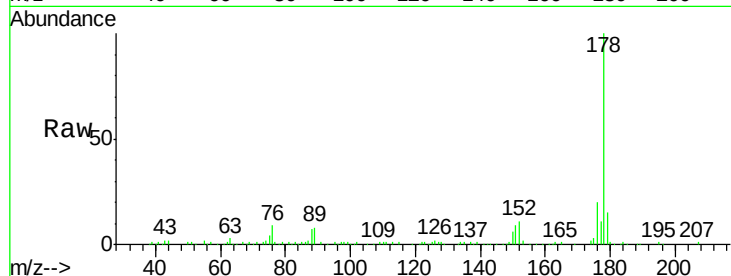
BNA\_M

ClientSampleId :

D9DB5

Tot Ion:178 Resp: 158997

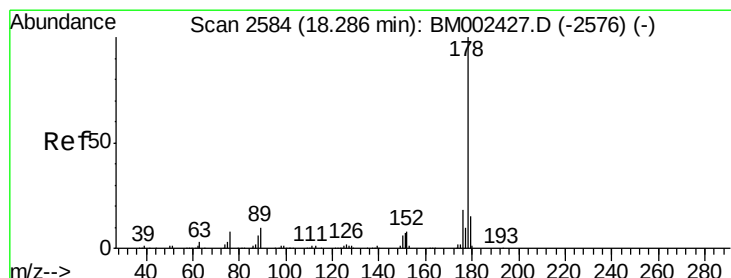
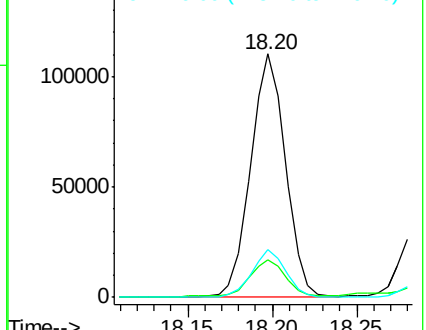
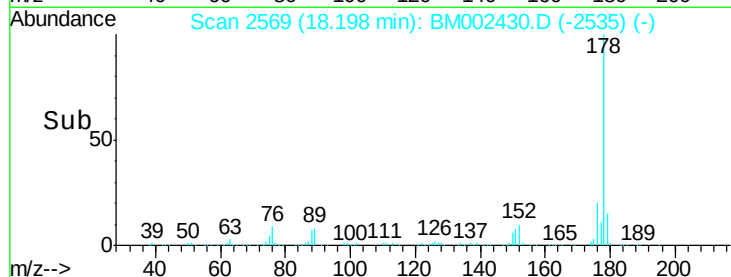
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 12.4  | 18.6  |
| 176 | 19.6  | 15.1  | 22.7  |



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: 1.23 ng/ul

RT: 18.29 min Scan# 2584

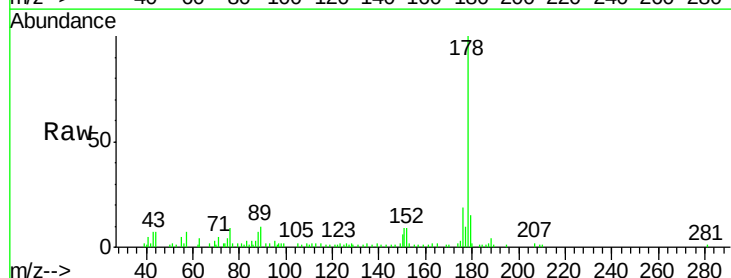
Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Tgt Ion:178 Resp: 50594

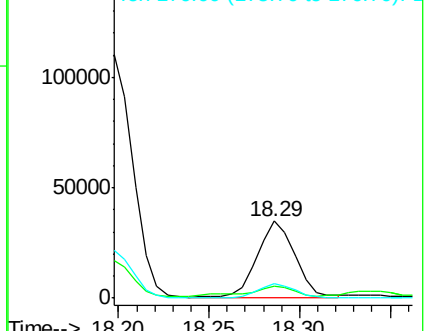
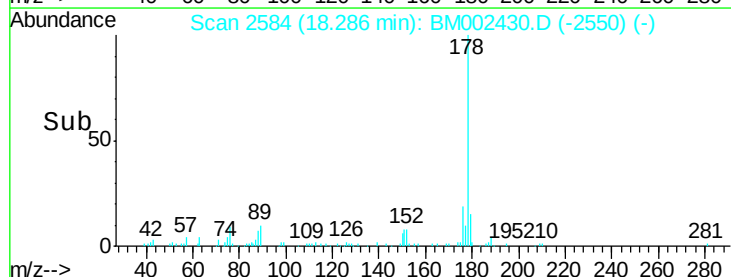
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.1  | 12.6  | 18.8  |
| 176 | 18.8  | 14.5  | 21.7  |

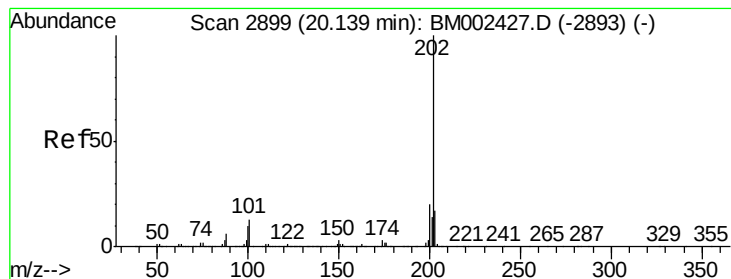


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 5.77 ng/ul

RT: 20.14 min Scan# 2899

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Instrument :

BNA\_M

ClientSampleId :

D9DB5

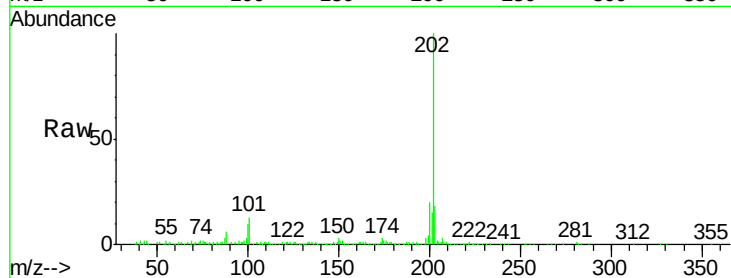
Tot Ion:202 Resp: 264107

Ion Ratio Lower Upper

202 100

101 13.3 9.7 14.5

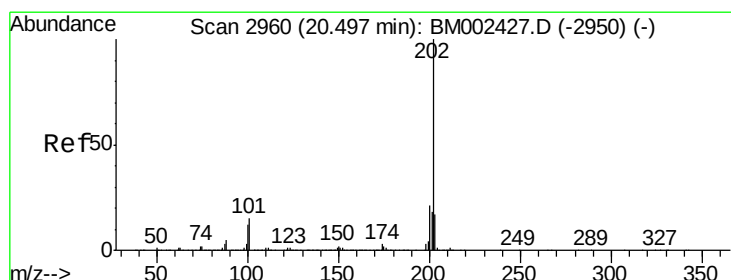
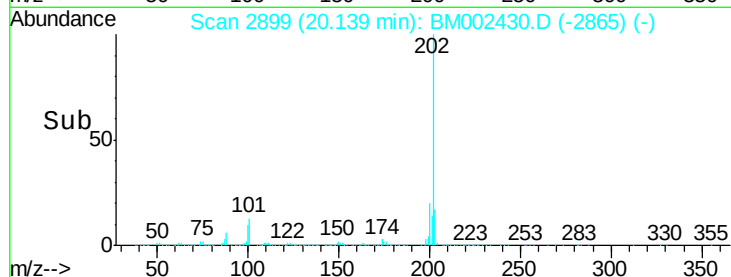
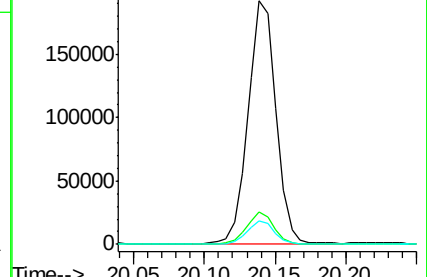
100 9.7 7.4 11.2



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: 8.93 ng/ul

RT: 20.50 min Scan# 2960

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

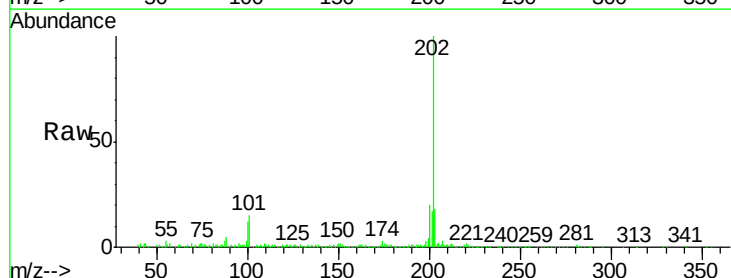
Tgt Ion:202 Resp: 252029

Ion Ratio Lower Upper

202 100

101 14.6 12.0 18.0

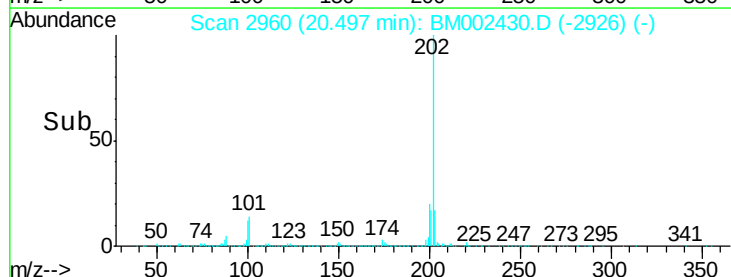
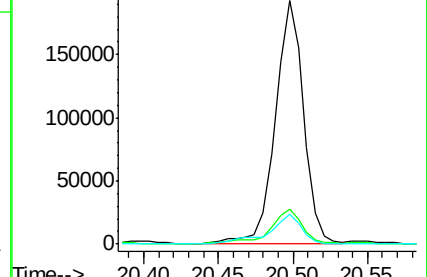
100 12.3 9.7 14.5

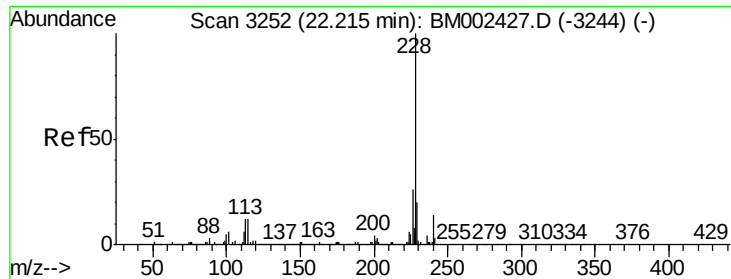


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 4.94 ng/ul

RT: 22.22 min Scan# 3252

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Instrument :

BNA\_M

ClientSampleId :

D9DB5

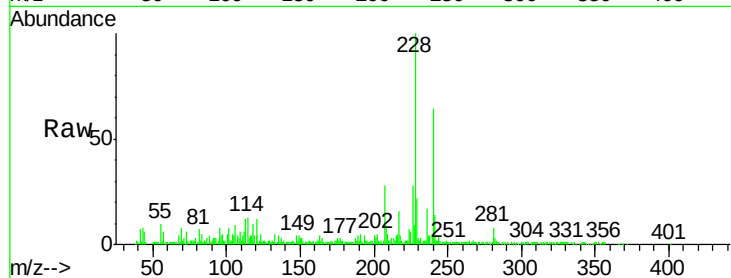
Tot Ion:228 Resp: 142426

Ion Ratio Lower Upper

228 100

229 22.5 15.8 23.6

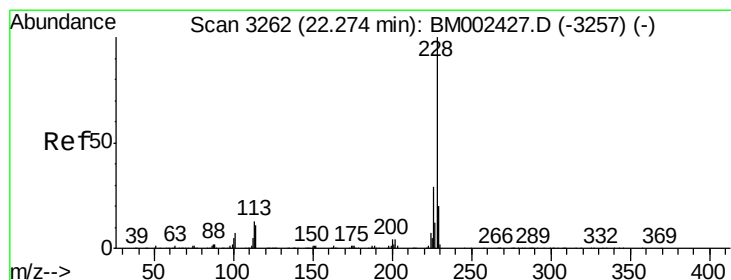
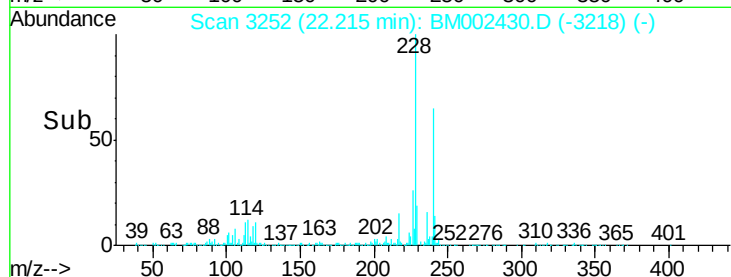
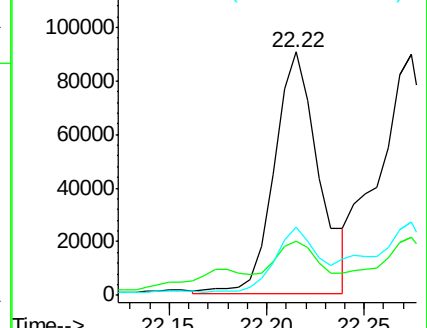
226 27.8 21.1 31.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#21

Chrysene

Concen: 5.24 ng/ul

RT: 22.22 min Scan# 3252

Delta R.T. -0.06 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

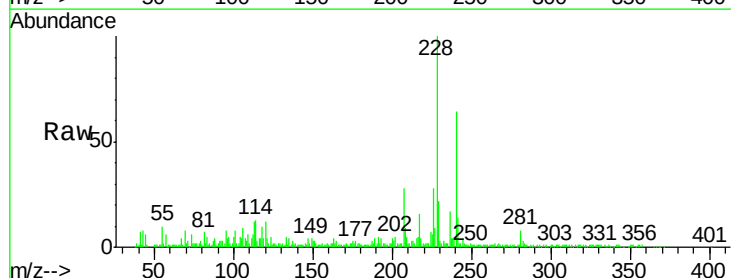
Tgt Ion:228 Resp: 141275

Ion Ratio Lower Upper

228 100

226 27.8 23.4 35.2

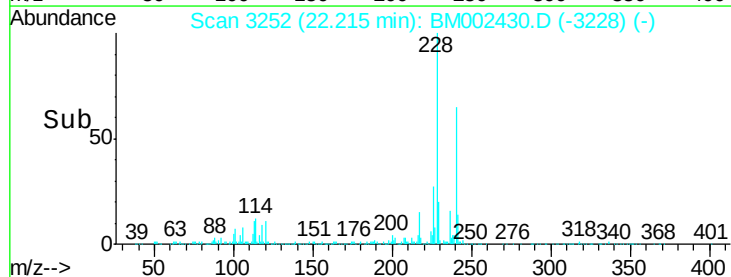
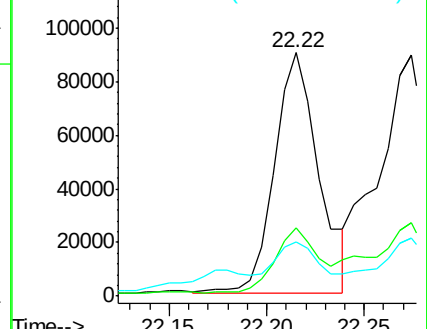
229 22.5 15.7 23.5

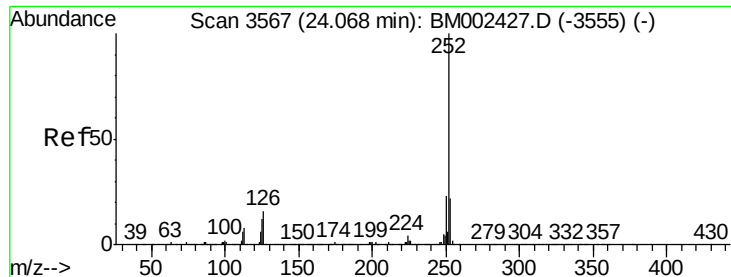


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 8.75 ng/ul

RT: 24.07 min Scan# 3568

Delta R.T. 0.01 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

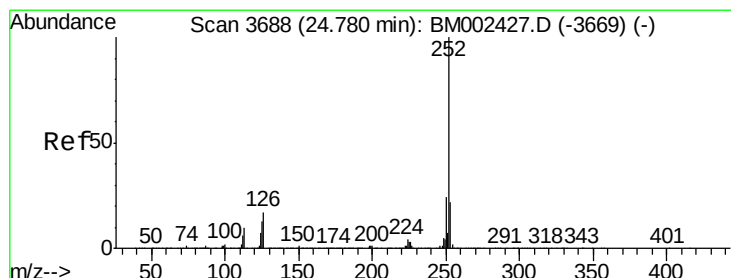
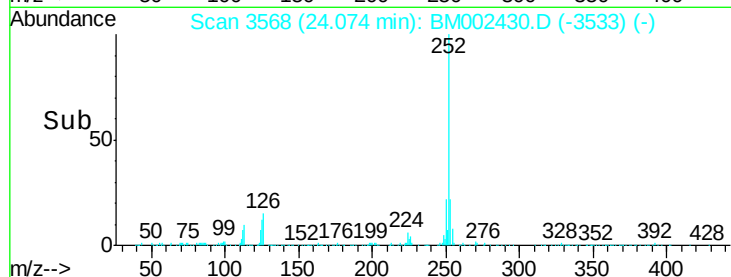
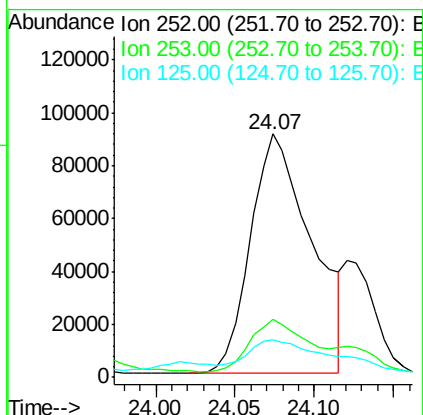
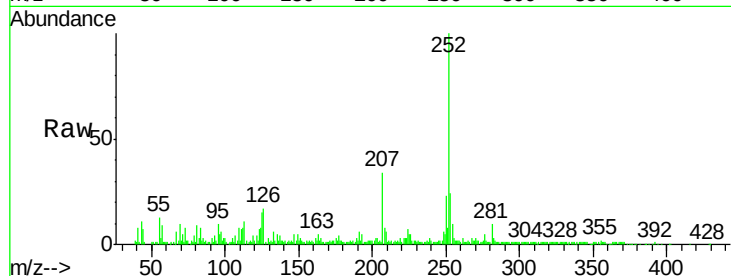
Instrument :

BNA\_M

ClientSampleId :

D9DB5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 242175 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.0  | 17.4  | 26.0   |
| 125       | 15.3  | 10.0  | 15.0#  |



#26

Benzo(a)pyrene

Concen: 5.57 ng/ul

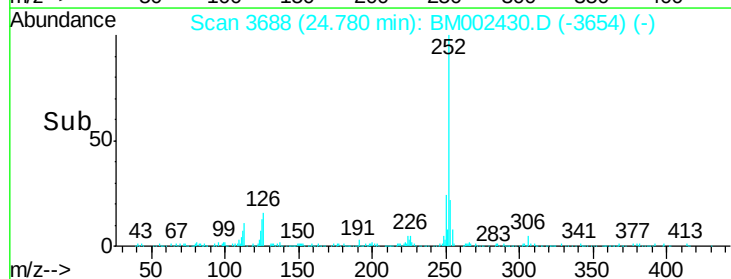
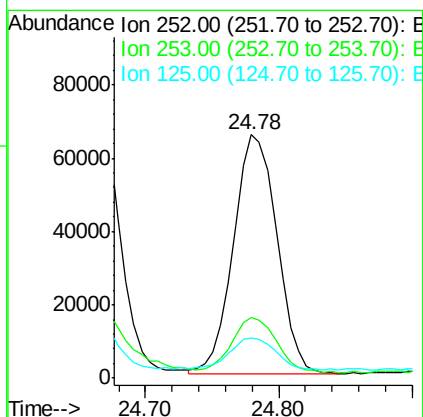
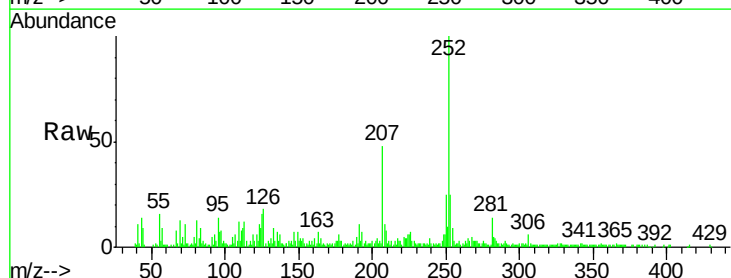
RT: 24.78 min Scan# 3688

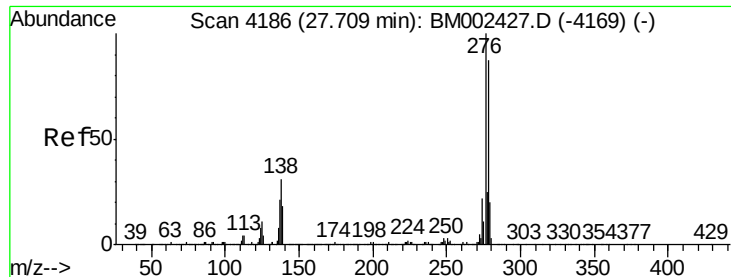
Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 147259 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.7  | 17.6  | 26.4   |
| 125       | 16.5  | 10.7  | 16.1#  |





#27

Indeno(1,2,3-cd)pyrene

Concen: 3.55 ng/ul

RT: 27.72 min Scan# 4188

Delta R.T. 0.01 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

Instrument :

BNA\_M

ClientSampleId :

D9DB5

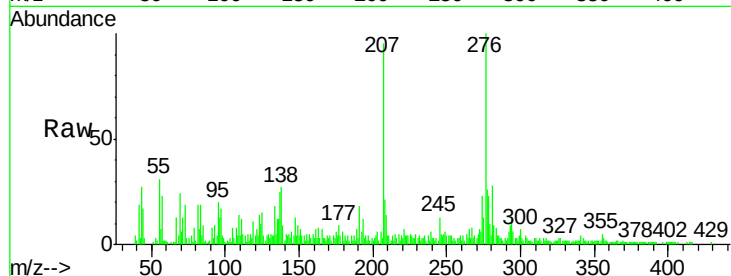
Tot Ion:276 Resp: 108034

Ion Ratio Lower Upper

276 100

138 26.8 25.3 37.9

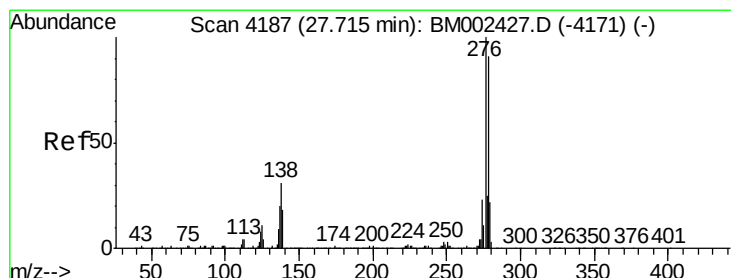
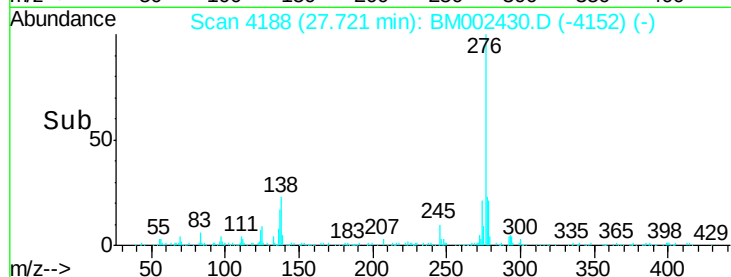
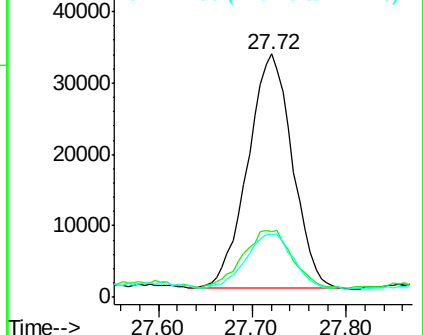
277 26.1 20.2 30.2



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



#28

Dibenzo(a,h)anthracene

Concen: 1.31 ng/ul

RT: 27.71 min Scan# 4187

Delta R.T. 0.00 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

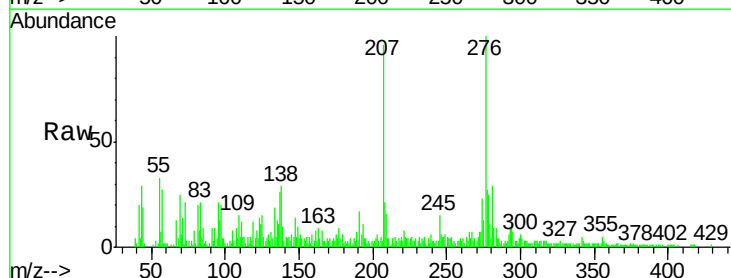
Tgt Ion:278 Resp: 33310

Ion Ratio Lower Upper

278 100

139 37.4 16.5 24.7#

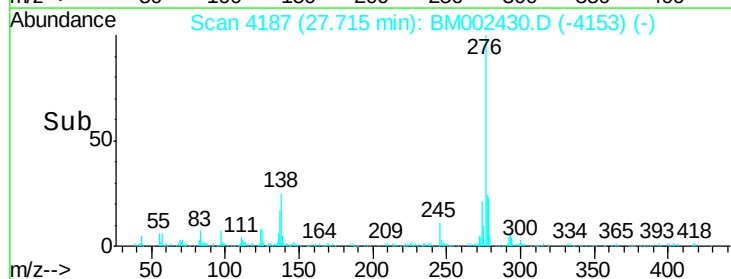
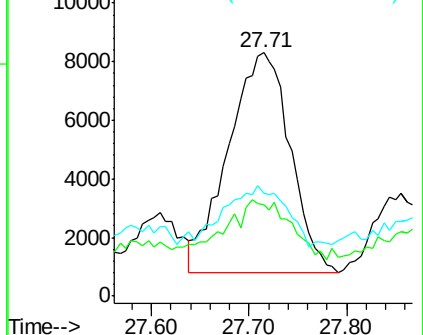
279 42.1 18.8 28.2#



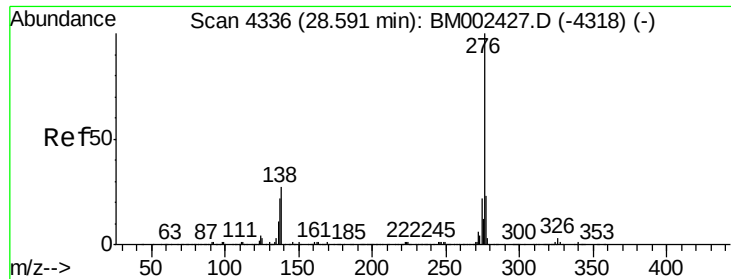
Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E







#29

Benzo(a,h,i)perylene

Concen: 5.63 ng/ul

RT: 28.60 min Scan# 4338

Delta R.T. 0.01 min

Lab File: BM002430.D

Acq: 15 Aug 2015 18:24

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D9DB5

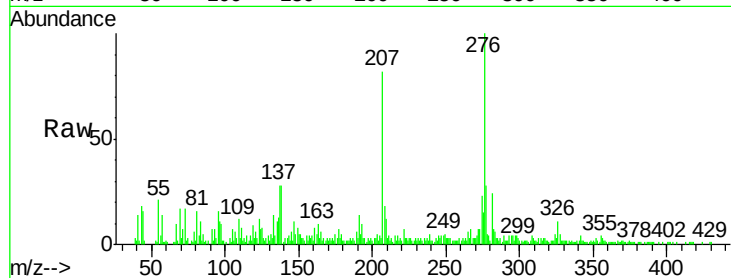
Tot Ion: 276 Resp: 142551

Ion Ratio Lower Upper

276 100

138 28.4 21.0 31.6

277 27.6 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

