

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
 Data File : BM002413.D  
 Acq On : 15 Aug 2015 07:56  
 Operator : UM/IZ  
 Sample : G3219-22  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DB3

Manual Integrations  
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 8/17/2015 2:44:46 PM

Quant Time: Aug 17 03:06:36 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 02:54:04 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.87  | 152  | 170932   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 11.74 | 136  | 816074   | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 15.44 | 164  | 434629   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 18.15 | 188  | 910248   | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 22.23 | 240  | 839576   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.89 | 264  | 647747   | 20.00 | ng/ul  | 0.00      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 15.15 | 160  | 757496   | 17.05 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 16.42 | 176  | 508409   | 16.29 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 18.24 | 188  | 719884   | 16.40 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 20.46 | 212  | 740338   | 19.89 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.71 | 264  | 552132   | 16.23 | ng/ul  | 0.00      |
| Target Compounds            |       |      |          |       |        |           |
| 8) Acenaphthylene           | 15.18 | 152  | 80848    | 1.74  | ng/ul  | Qvalue 98 |
| 13) Phenanthrene            | 18.19 | 178  | 72285    | 1.38  | ng/ul  | 99        |
| 15) Anthracene              | 18.28 | 178  | 72910    | 1.37  | ng/ul  | 99        |
| 16) Fluoranthene            | 20.13 | 202  | 440162   | 7.40  | ng/ul  | 98        |
| 19) Pyrene                  | 20.49 | 202  | 427062   | 8.68  | ng/ul  | 100       |
| 20) Benzo(a)anthracene      | 22.21 | 228  | 321715   | 6.41  | ng/ul  | 98        |
| 21) Chrysene                | 22.27 | 228  | 300945   | 6.41  | ng/ul  | 96        |
| 23) Benzo(b)fluoranthene    | 24.06 | 252  | 444596   | 11.35 | ng/ul  | 96        |
| 24) Benzo(k)fluoranthene    | 24.11 | 252  | 144754m  | 3.90  | ng/ul  |           |
| 26) Benzo(a)pyrene          | 24.77 | 252  | 210412   | 5.63  | ng/ul  | 98        |
| 27) Indeno(1,2,3-cd)pyrene  | 27.69 | 276  | 153446   | 3.57  | ng/ul  | 94        |
| 28) Dibenzo(a,h)anthracene  | 27.68 | 278  | 41751    | 1.16  | ng/ul# | 87        |
| 29) Benzo(g,h,i)perylene    | 28.56 | 276  | 124223   | 3.47  | ng/ul  | 96        |

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

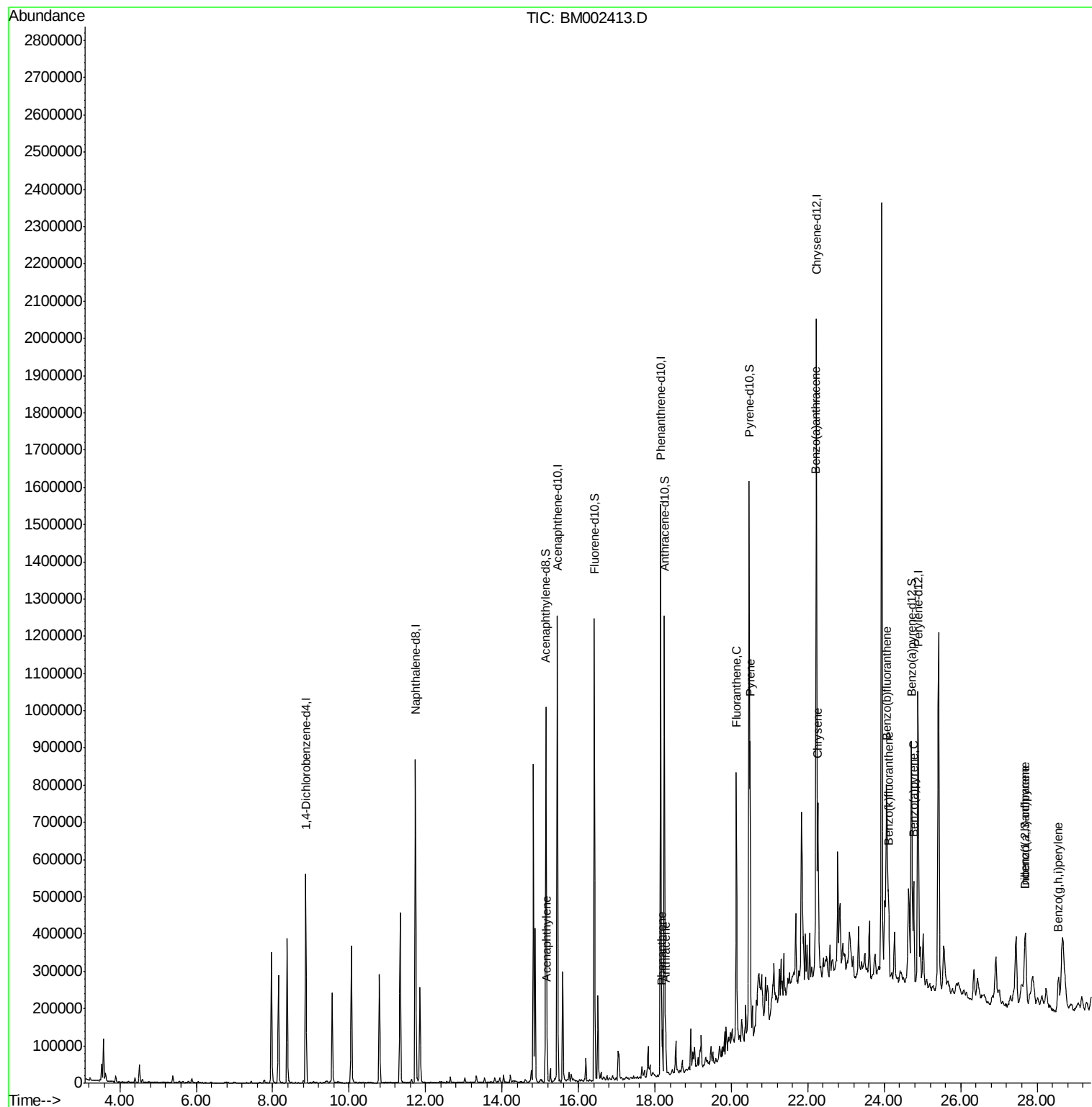
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
Data File : BM002413.D  
Acq On : 15 Aug 2015 07:56  
Operator : UM/IZ  
Sample : G3219-22  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

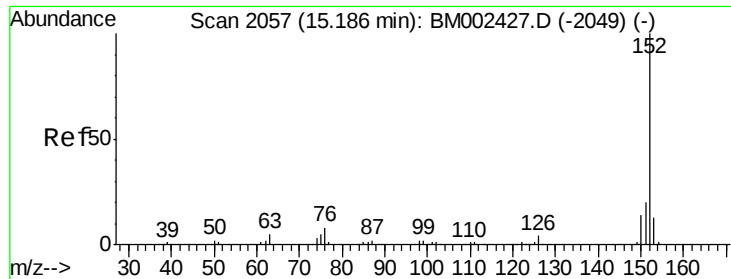
Instrument :  
BNA\_M  
ClientSampleId :  
D9DB3

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Quant Time: Aug 17 03:06:36 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 17 02:54:04 2015  
Response via : Initial Calibration





#8

Acenaphthylene

Concen: 1.74 ng/ul

RT: 15.18 min Scan# 2056

Delta R.T. -0.00 min

Lab File: BM002413.D

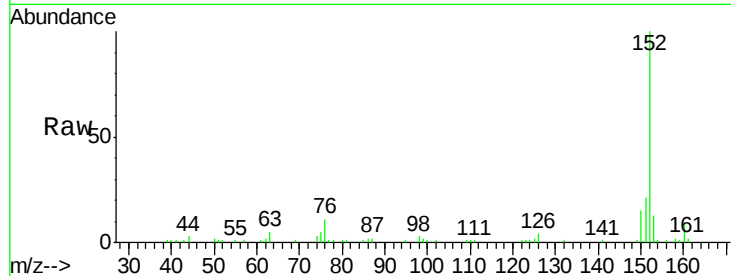
Acq: 15 Aug 2015 07:56

Instrument :

BNA\_M

ClientSampleId :

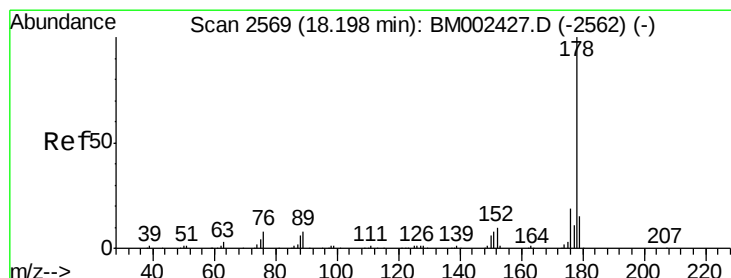
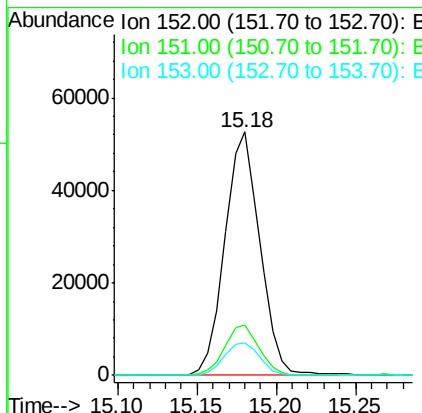
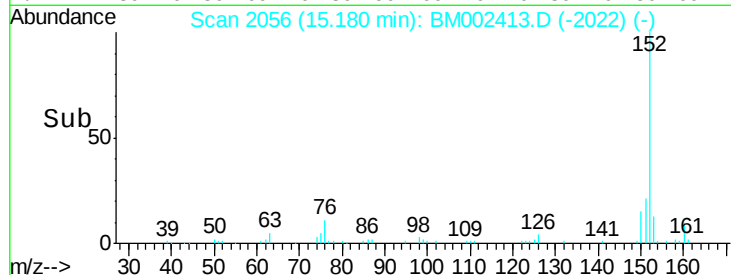
D9DB3



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.5  | 15.7  | 23.5  |
| 153     | 13.1  | 10.2  | 15.4  |

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#13

Phenanthrene

Concen: 1.38 ng/ul

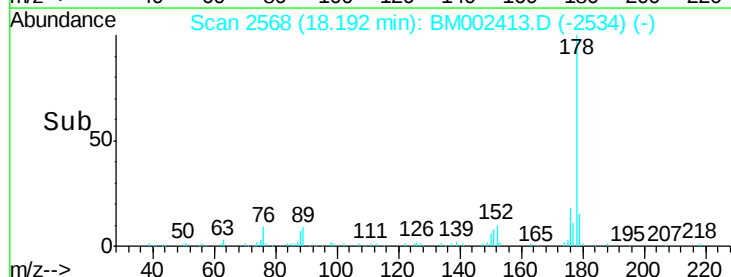
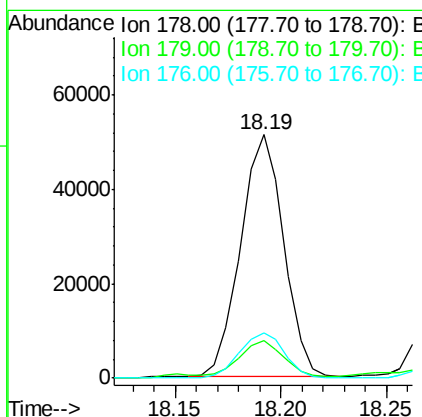
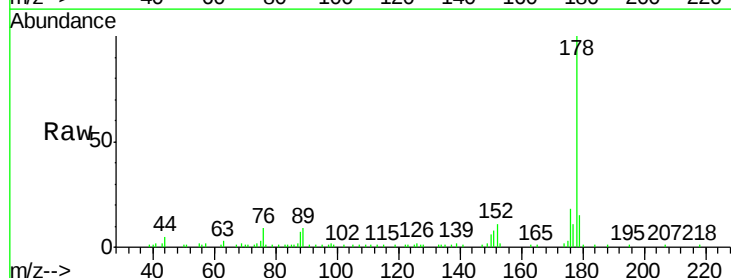
RT: 18.19 min Scan# 2568

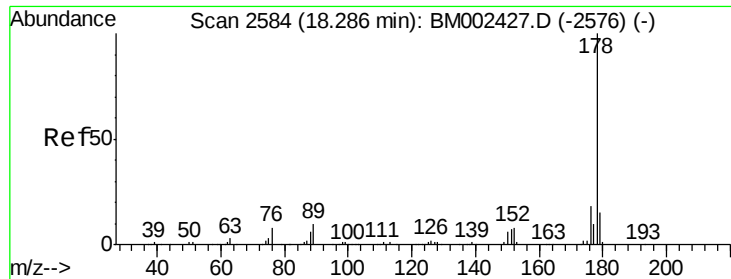
Delta R.T. -0.00 min

Lab File: BM002413.D

Acq: 15 Aug 2015 07:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.4  | 18.6  |
| 176     | 18.4  | 15.1  | 22.7  |





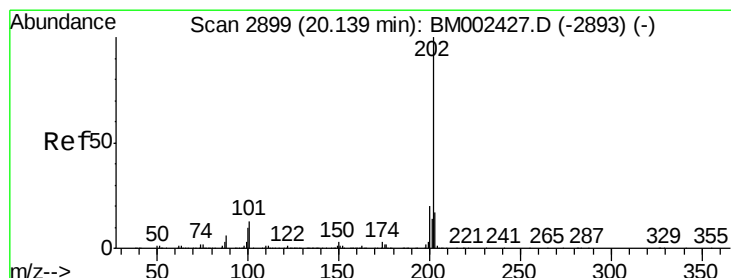
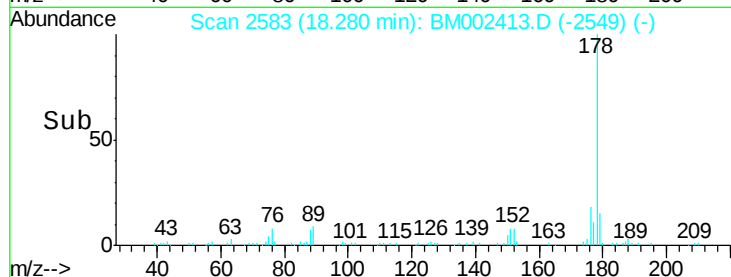
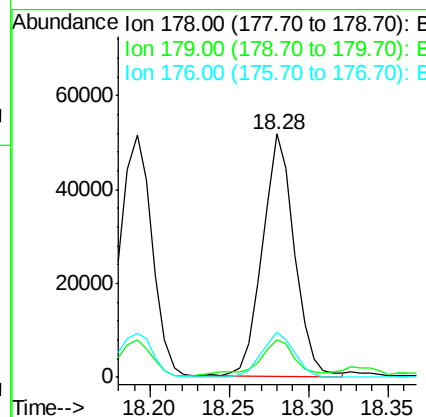
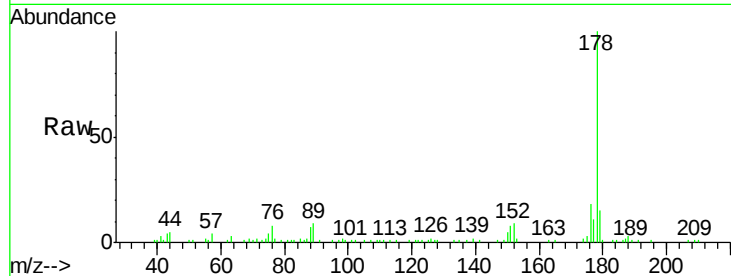
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 Anthracene  
 Concen: 1.37 ng/ul  
 RT: 18.28 min Scan# 2583  
 Delta R.T. -0.00 min  
 Lab File: BM002413.D  
 Acq: 15 Aug 2015 07:56

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DB3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.6  | 18.8  |
| 176     | 18.3  | 14.5  | 21.7  |

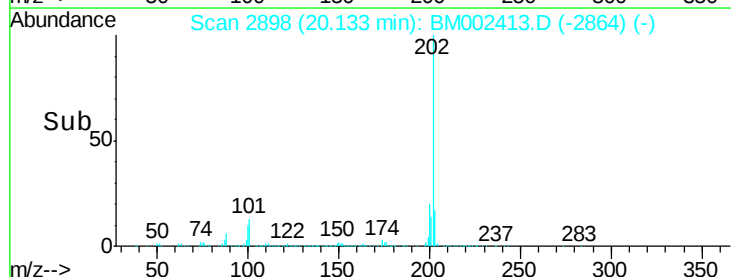
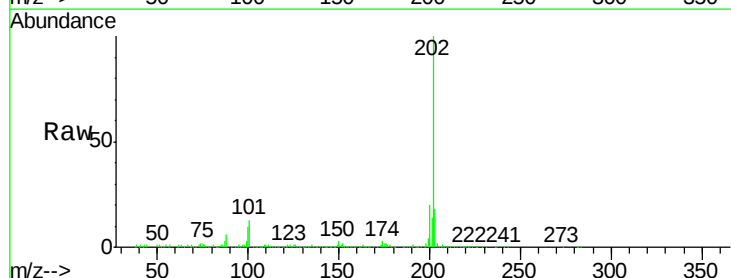
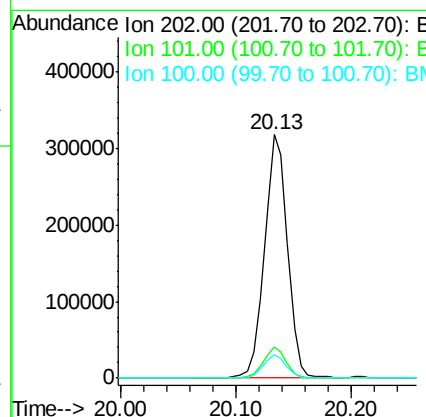
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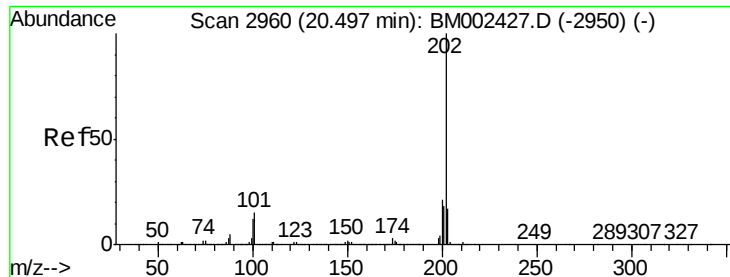
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#16  
 Fluoranthene  
 Concen: 7.40 ng/ul  
 RT: 20.13 min Scan# 2898  
 Delta R.T. -0.00 min  
 Lab File: BM002413.D  
 Acq: 15 Aug 2015 07:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.0  | 9.7   | 14.5  |
| 100     | 9.6   | 7.4   | 11.2  |





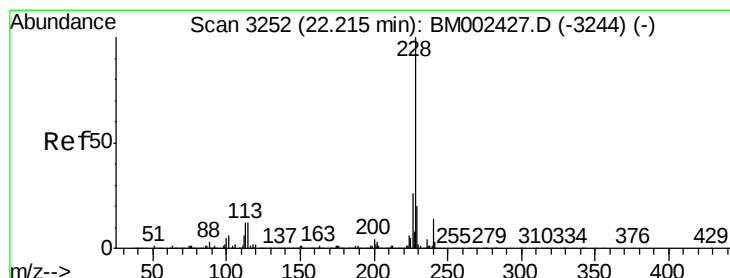
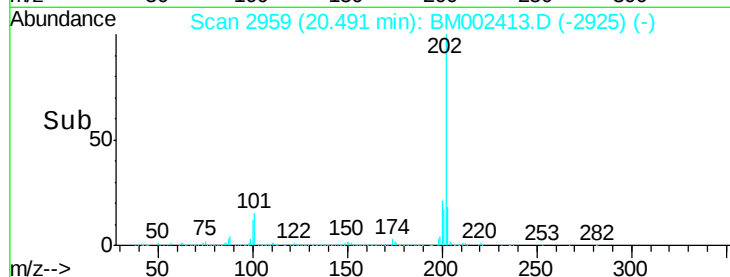
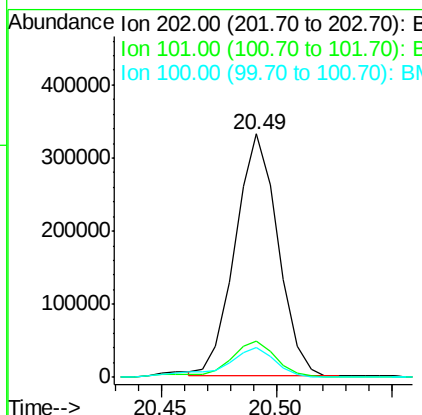
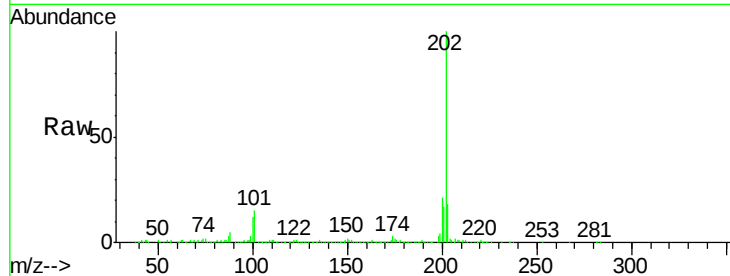
#19  
Pyrene  
Concen: 8.68 ng/ul  
RT: 20.49 min Scan# 2959  
Delta R.T. -0.00 min  
Lab File: BM002413.D  
Acq: 15 Aug 2015 07:56

Instrument :  
BNA\_M  
ClientSampleId :  
D9DB3

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 427062 |       |       |
| 101     | 14.8  | 12.0   | 18.0  |       |
| 100     | 12.1  | 9.7    | 14.5  |       |

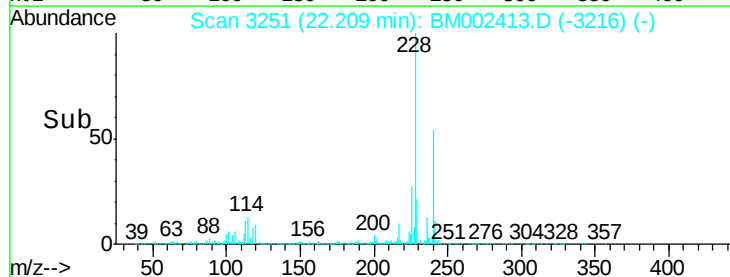
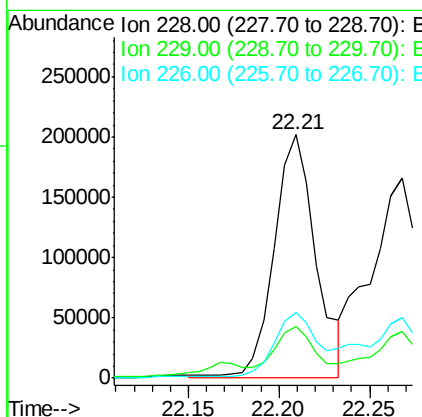
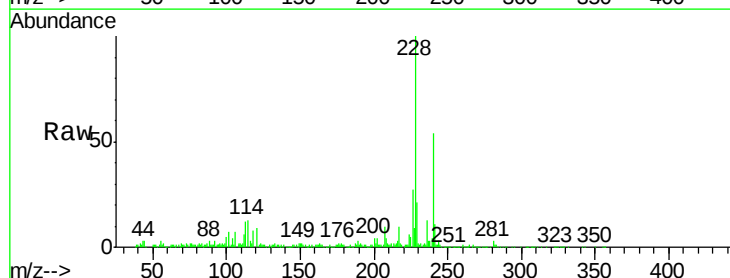
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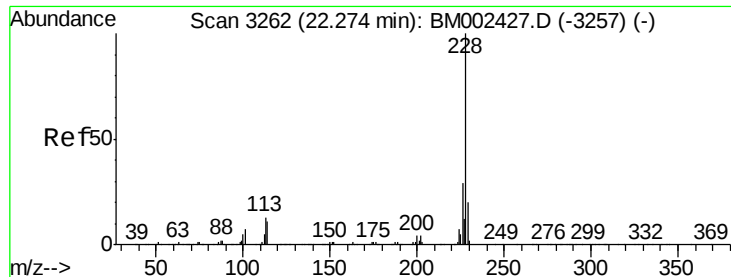
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#20  
Benzo(a)anthracene  
Concen: 6.41 ng/ul  
RT: 22.21 min Scan# 3251  
Delta R.T. 0.01 min  
Lab File: BM002413.D  
Acq: 15 Aug 2015 07:56

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 321715 |       |       |
| 229     | 21.4  | 15.8   | 23.6  |       |
| 226     | 27.2  | 21.1   | 31.7  |       |





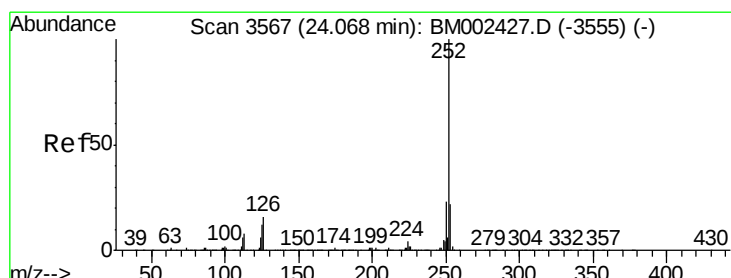
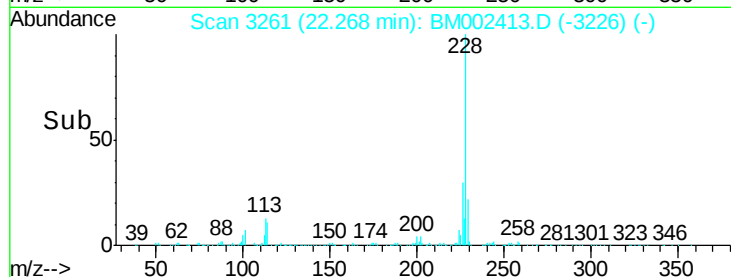
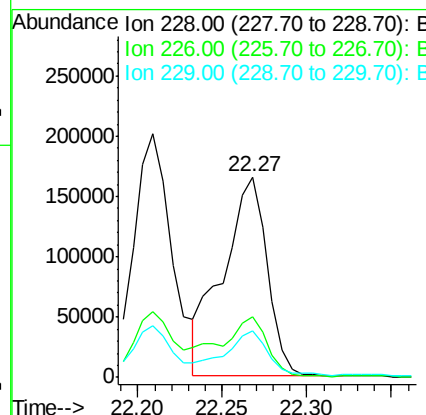
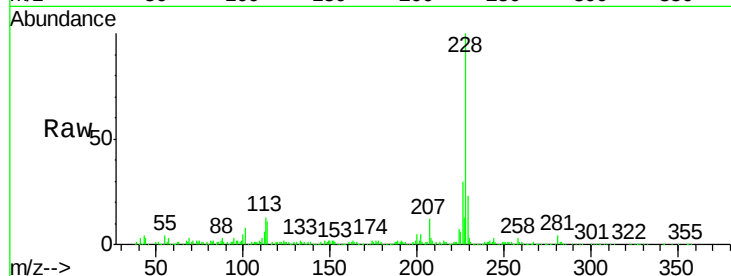
#21  
Chrysene  
Concen: 6.41 ng/ul  
RT: 22.27 min Scan# 3261  
Delta R.T. 0.01 min  
Lab File: BM002413.D  
Acq: 15 Aug 2015 07:56

Instrument :  
BNA\_M  
ClientSampleId :  
D9DB3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.2  | 23.4  | 35.2  |
| 229     | 23.2  | 15.7  | 23.5  |

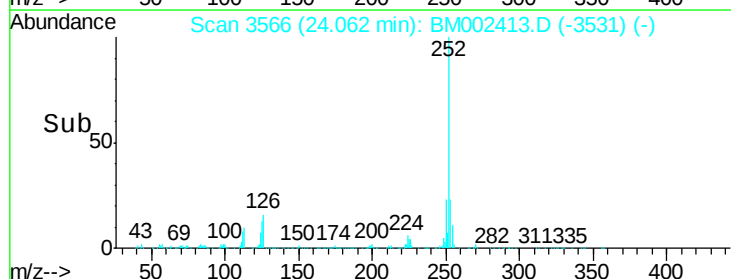
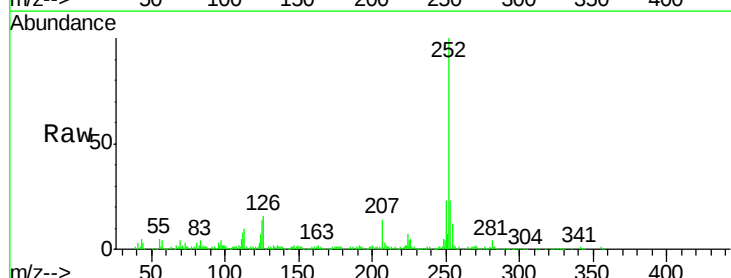
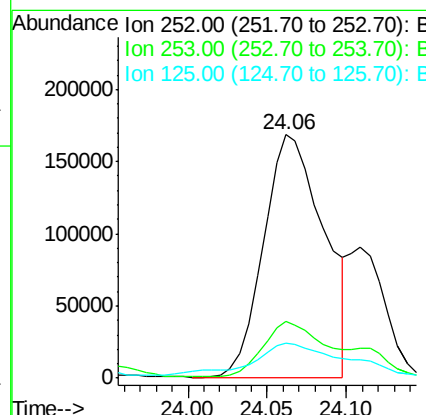
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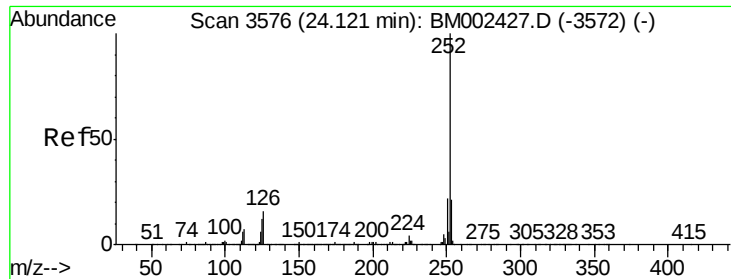
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#23  
Benzo(b)fluoranthene  
Concen: 11.35 ng/ul  
RT: 24.06 min Scan# 3566  
Delta R.T. 0.01 min  
Lab File: BM002413.D  
Acq: 15 Aug 2015 07:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.4  | 26.0  |
| 125     | 14.4  | 10.0  | 15.0  |





#24

Benzo(k)fluoranthene

Concen: 3.90 ng/ul m

RT: 24.11 min Scan# 3574

Delta R.T. -0.00 min

Lab File: BM002413.D

Acq: 15 Aug 2015 07:56

Instrument :

BNA\_M

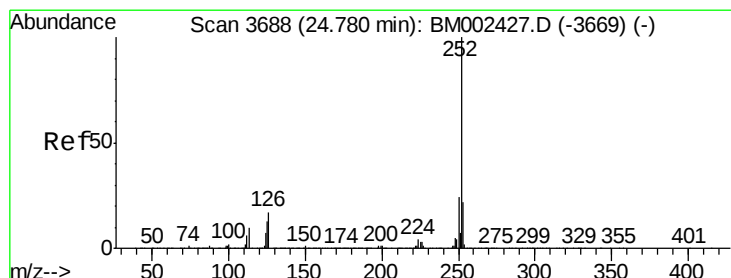
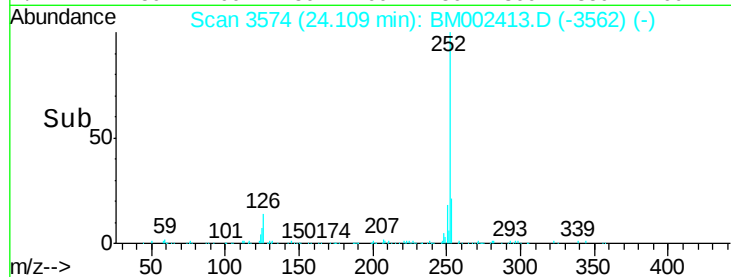
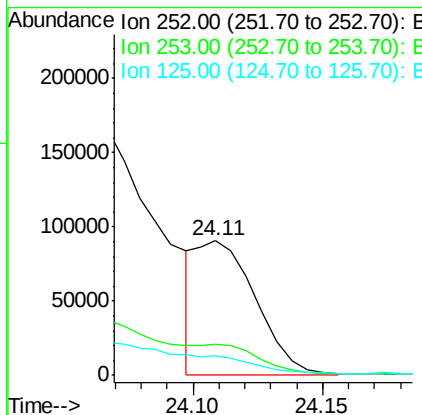
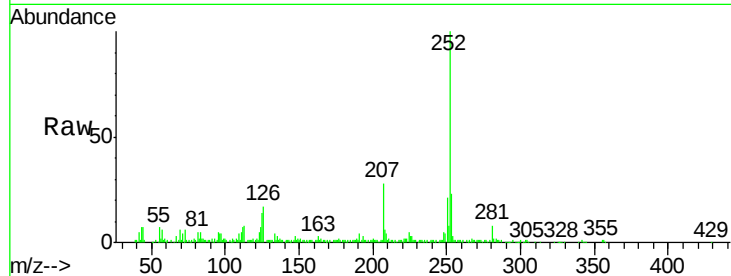
ClientSampleId :

D9DB3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 144754 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.1  | 17.8  | 26.6   |
| 125       | 14.1  | 9.8   | 14.8   |

Manual Integrations  
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#26

Benzo(a)pyrene

Concen: 5.63 ng/ul

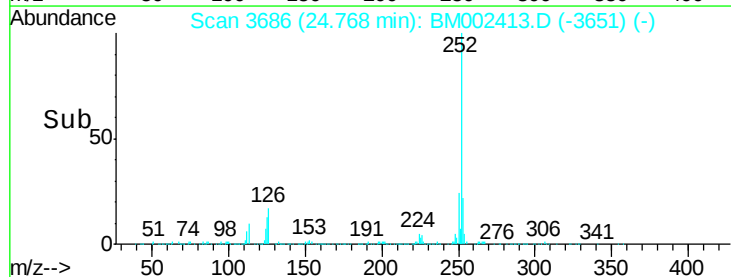
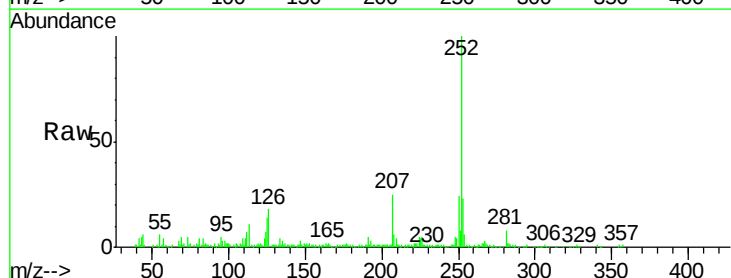
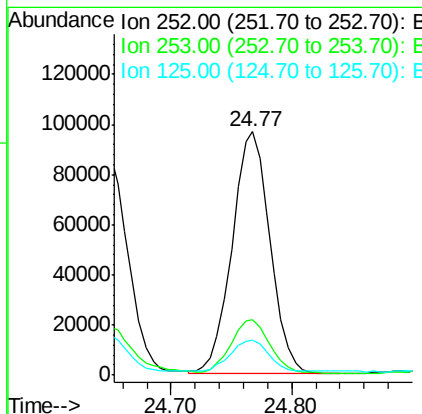
RT: 24.77 min Scan# 3686

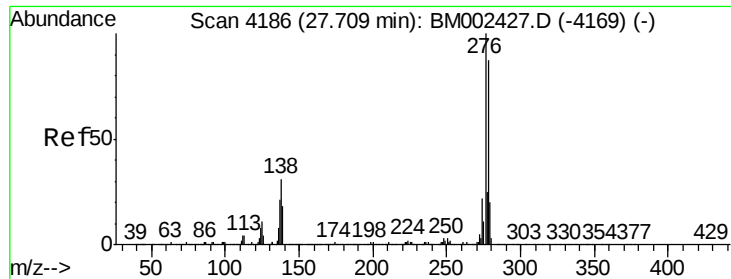
Delta R.T. 0.01 min

Lab File: BM002413.D

Acq: 15 Aug 2015 07:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 210412 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 17.6  | 26.4   |
| 125       | 14.3  | 10.7  | 16.1   |





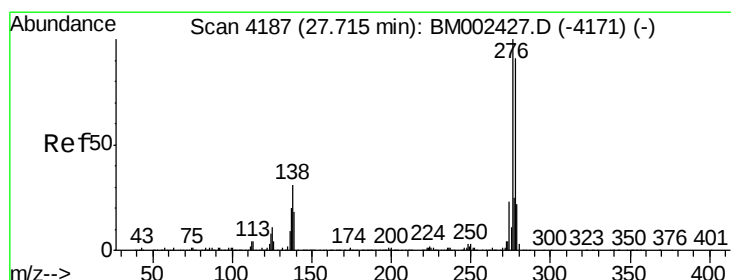
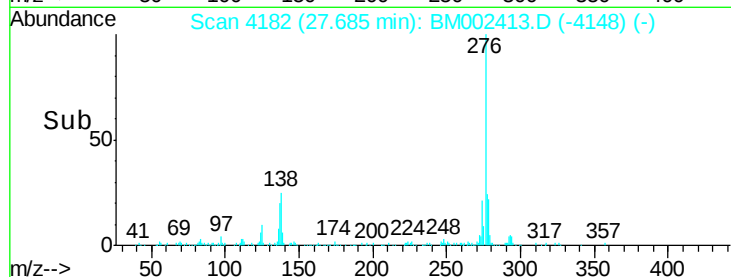
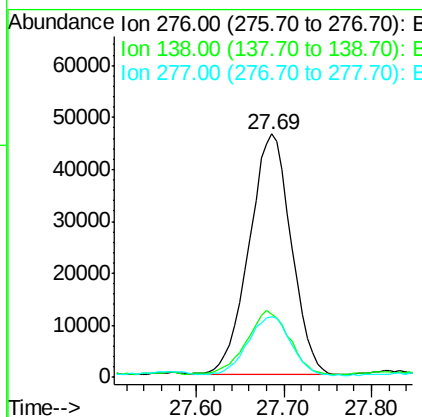
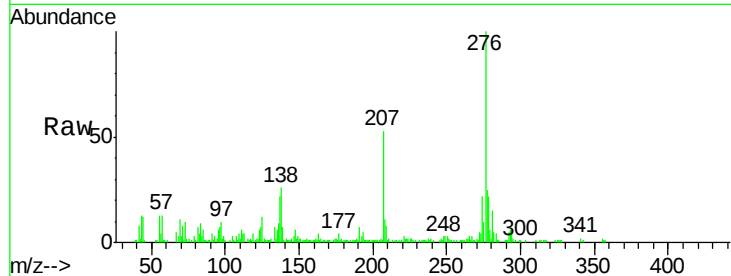
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.57 ng/ul  
 RT: 27.69 min Scan# 4182  
 Delta R.T. -0.00 min  
 Lab File: BM002413.D  
 Acq: 15 Aug 2015 07:56

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DB3

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.7  | 25.3  | 37.9  |
| 277     | 24.9  | 20.2  | 30.2  |

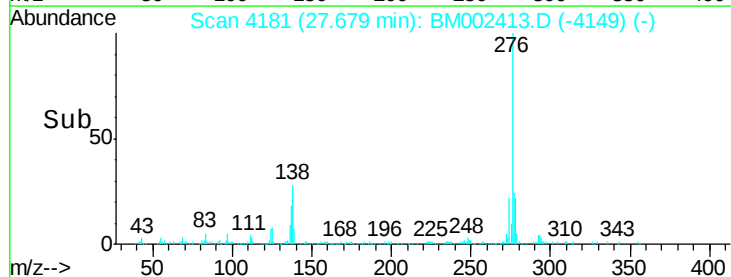
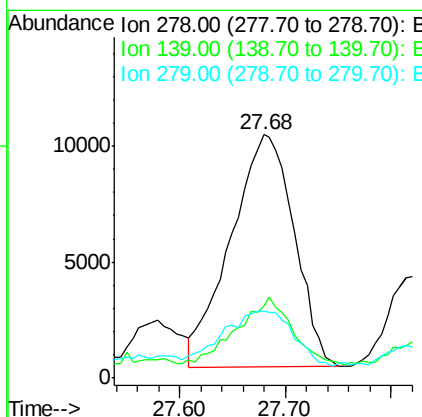
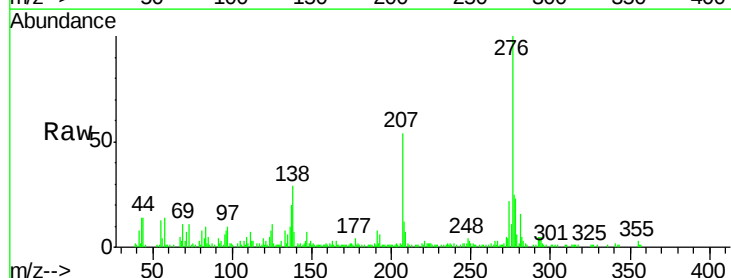
Manual Integrations  
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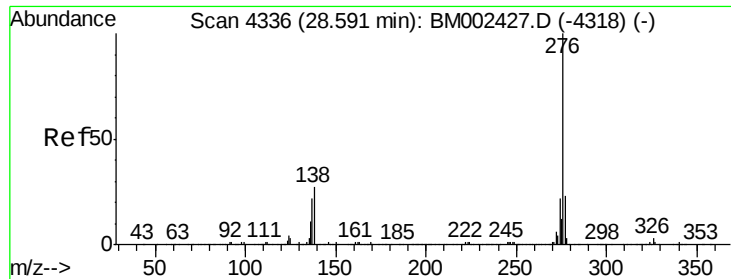
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#28  
 Dibenzo(a,h)anthracene  
 Concen: 1.16 ng/ul  
 RT: 27.68 min Scan# 4181  
 Delta R.T. -0.01 min  
 Lab File: BM002413.D  
 Acq: 15 Aug 2015 07:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 29.5  | 16.5  | 24.7# |
| 279     | 27.6  | 18.8  | 28.2  |





#29

Benzo(g,h,i)perylene

Concen: 3.47 ng/ul

RT: 28.56 min Scan# 4330

Delta R.T. -0.01 min

Lab File: BM002413.D

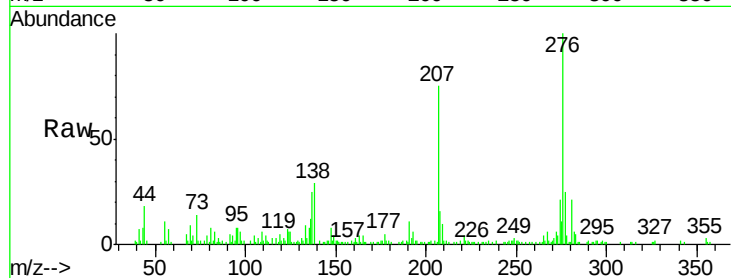
Acq: 15 Aug 2015 07:56

Instrument :

BNA\_M

ClientSampleId :

D9DB3



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 124223 |       |       |
| 138     | 29.5  |        | 21.0  | 31.6  |
| 277     | 25.2  |        | 19.2  | 28.8  |

Manual Integrations  
APPROVED

MMDadoda  
8/17/2015 2:44:46 PM

