

Data Path : Z:\HPCHEM1\BNA N\DATA\BN050218\  
 Data File : BN001063.D  
 Acq On : 02 May 2018 10:50  
 Operator : JU/SJ  
 Sample : J2527-14MS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DAS82MS

Manual Integrations  
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Quant Time: May 03 07:48:02 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 03 07:35:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 110073   | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 458942   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 224265   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.00 | 188  | 431797   | 20.00  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.22 | 240  | 403695   | 20.00  | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.41 | 264  | 427554   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 7) Acenaphthylene-d8        | 13.95 | 160  | 721157   | 33.48  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.25 | 176  | 483003   | 33.60  | ng/ul  | 0.00     |
| 14) Anthracene-d10          | 17.10 | 188  | 680795   | 34.48  | ng/ul  | 0.00     |
| 18) Pyrene-d10              | 19.41 | 212  | 696795   | 33.69  | ng/ul  | 0.00     |
| 25) Benzo(a)pyrene-d12      | 23.27 | 264  | 747012   | 36.99  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 9) Acenaphthene             | 14.32 | 153  | 519961   | 35.303 | ng/ul  | 96       |
| 13) Phenanthrene            | 17.05 | 178  | 63103    | 2.679  | ng/ul  | 98       |
| 16) Fluoranthene            | 19.07 | 202  | 152426   | 6.379  | ng/ul# | 93       |
| 19) Pyrene                  | 19.44 | 202  | 1017903  | 39.256 | ng/ul# | 90       |
| 20) Benzo(a)anthracene      | 21.20 | 228  | 82492m   | 3.418  | ng/ul  |          |
| 21) Chrysene                | 21.25 | 228  | 86978    | 3.835  | ng/ul  | 97       |
| 23) Benzo(b)fluoranthene    | 22.76 | 252  | 136252m  | 5.608  | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.80 | 252  | 40670m   | 1.711  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.32 | 252  | 86647    | 3.731  | ng/ul# | 90       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.59 | 276  | 67506    | 2.407  | ng/ul# | 91       |
| 29) Benzo(g,h,i)perylene    | 26.26 | 276  | 68104    | 2.903  | ng/ul# | 91       |

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

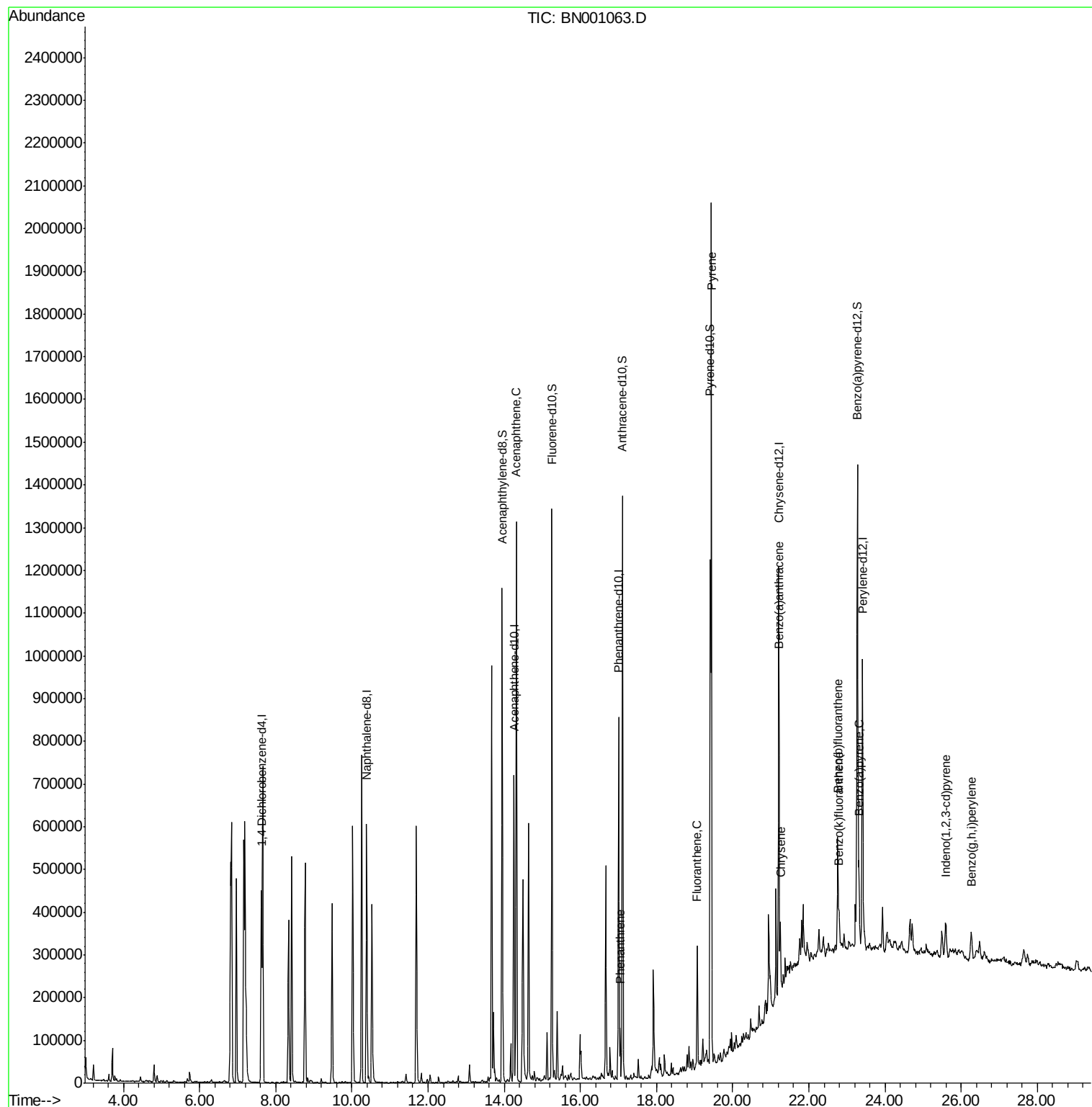
Data Path : Z:\HPCHEM1\BNA N\DATA\BN050218\  
Data File : BN001063.D  
Acq On : 02 May 2018 10:50  
Operator : JU/SJ  
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Misc :  
ALS Vial : 4 Sample Multiplier: 1

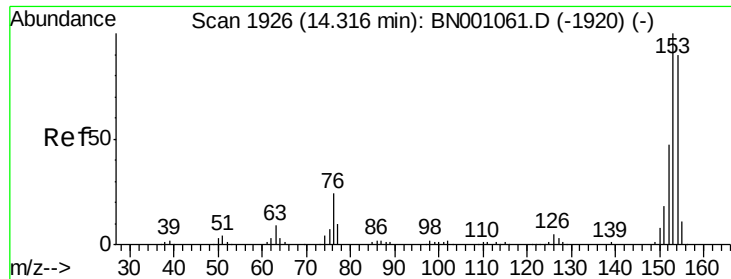
Instrument :  
BNA\_N  
ClientSampleId :  
DAS82MS

Quant Time: May 03 07:48:02 2018  
Quant Method : Z:\HPCHEM1\BNA N\METHODS\SOM-EPA-BN042418MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 03 07:35:09 2018  
Response via : Initial Calibration

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#9

Acenaphthene

Concen: 35.303 ng/ul

RT: 14.32 min Scan# 1927

Delta R.T. 0.01 min

Lab File: BN001063.D

Acq: 02 May 2018 10:50

Instrument :

BNA\_N

ClientSampleId :

DAS82MS

Tot Ion:153 Resp: 519961

Ion Ratio Lower Upper

153 100

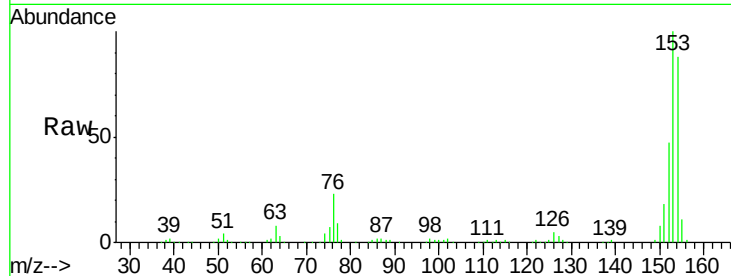
152 46.7 39.0 58.6

154 87.9 66.8 100.2

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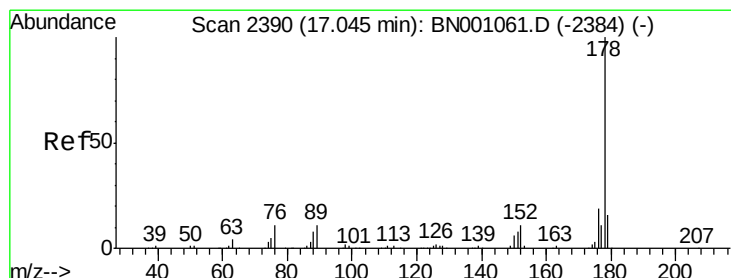
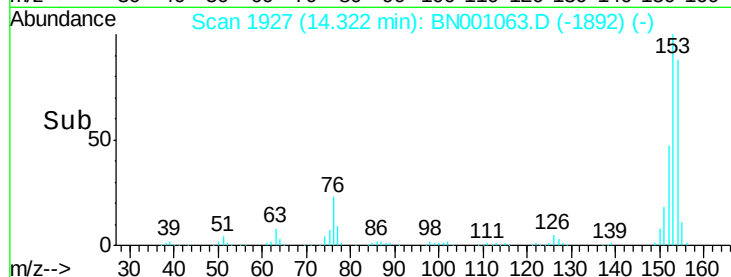
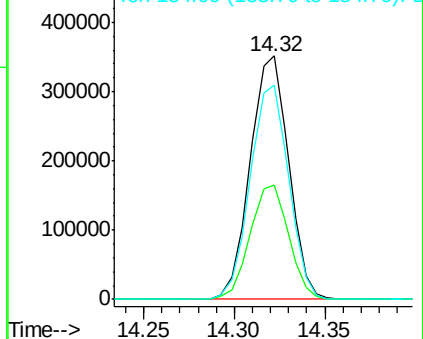
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#13

Phenanthrene

Concen: 2.679 ng/ul

RT: 17.05 min Scan# 2390

Delta R.T. -0.00 min

Lab File: BN001063.D

Acq: 02 May 2018 10:50

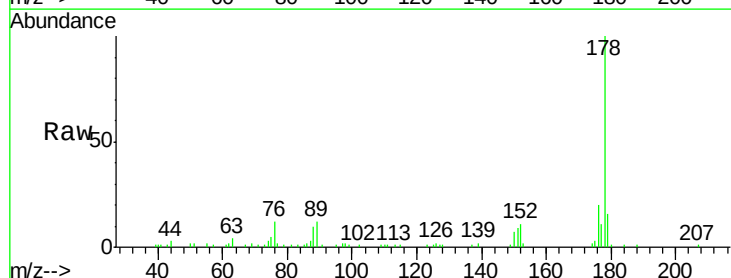
Tgt Ion:178 Resp: 63103

Ion Ratio Lower Upper

178 100

179 16.4 12.3 18.5

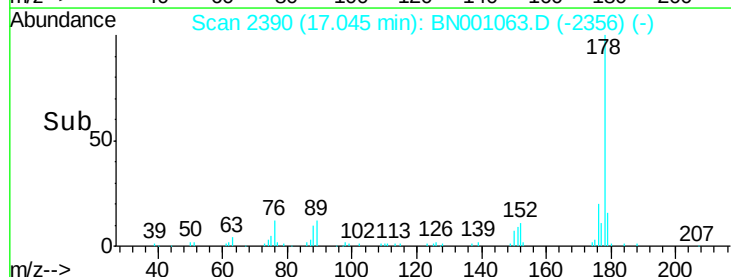
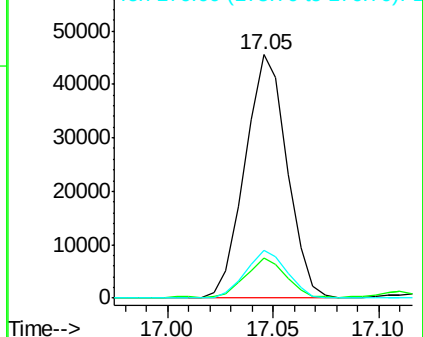
176 19.7 15.1 22.7

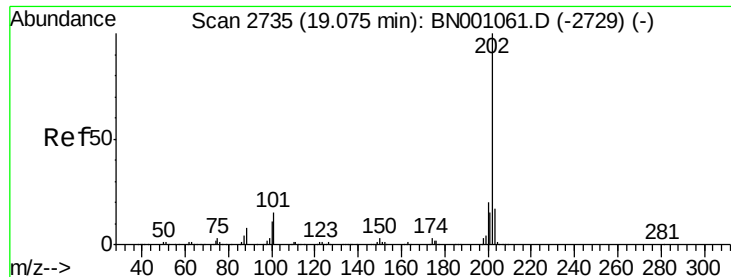


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 6.379 ng/ul

RT: 19.07 min Scan# 2734

Delta R.T. -0.01 min

Lab File: BN001063.D

Acq: 02 May 2018 10:50

Instrument :

BNA\_N

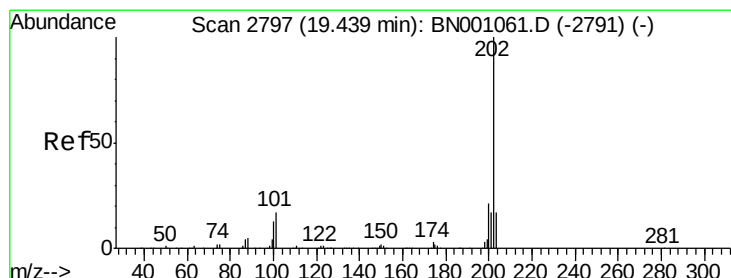
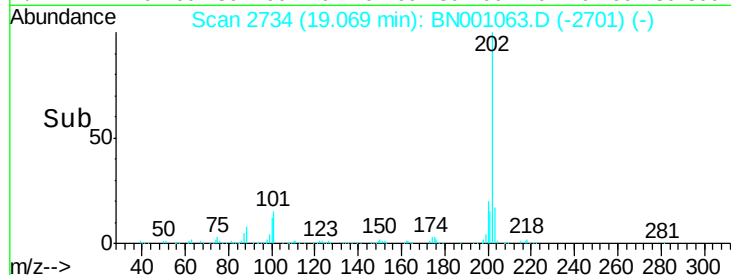
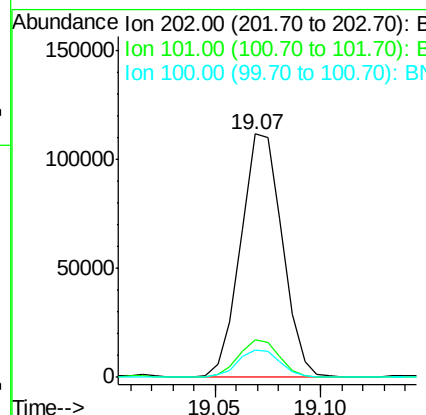
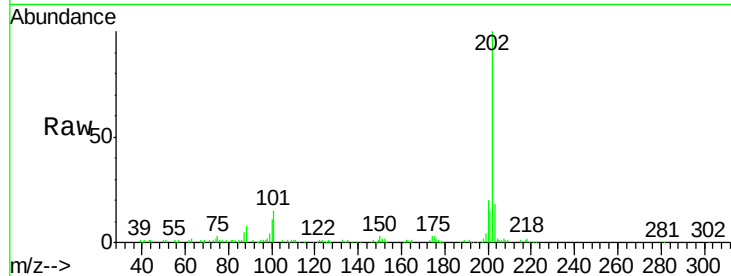
ClientSampleId :

DAS82MS

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 202  | Resp: | 152426 |
| Ion Ratio |      | Lower | Upper  |
| 202       | 100  |       |        |
| 101       | 15.2 | 9.9   | 14.9#  |
| 100       | 11.5 | 7.4   | 11.0#  |

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#19

Pyrene

Concen: 39.256 ng/ul

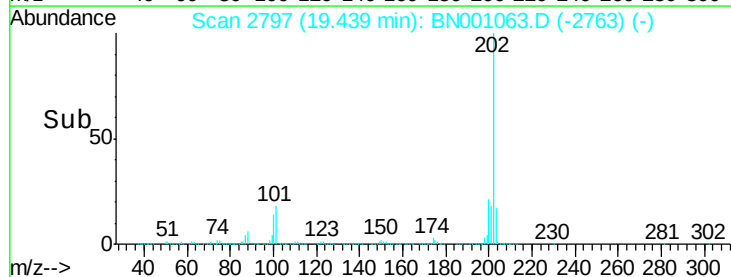
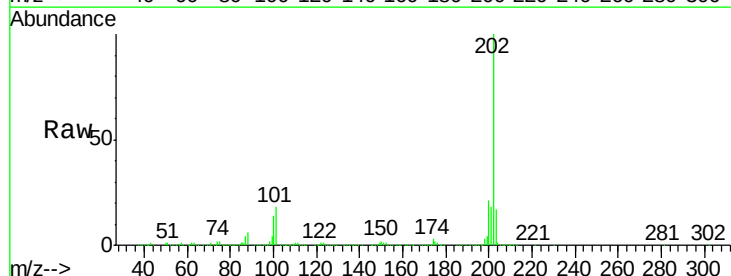
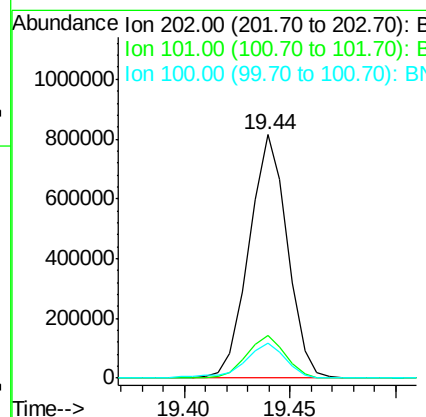
RT: 19.44 min Scan# 2797

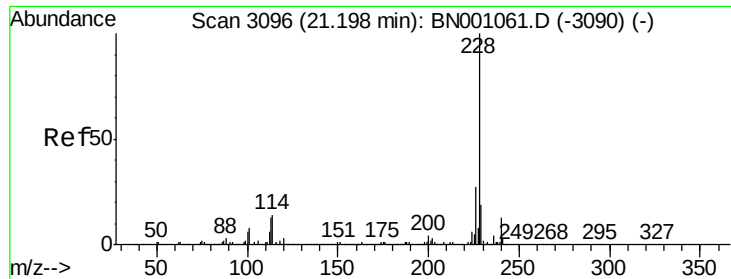
Delta R.T. -0.00 min

Lab File: BN001063.D

Acq: 02 May 2018 10:50

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 202  | Resp: | 1017903 |
| Ion Ratio |      | Lower | Upper   |
| 202       | 100  |       |         |
| 101       | 17.6 | 11.0  | 16.4#   |
| 100       | 14.4 | 8.1   | 12.1#   |





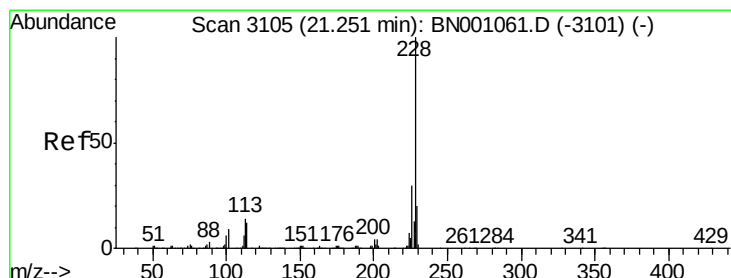
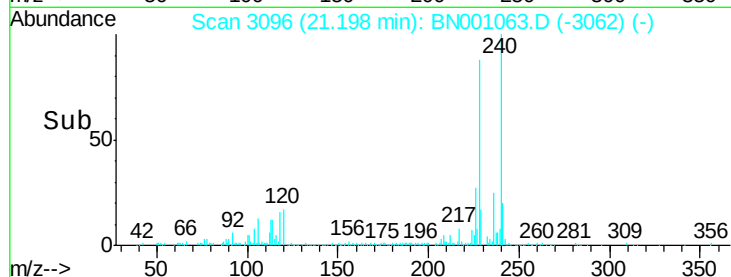
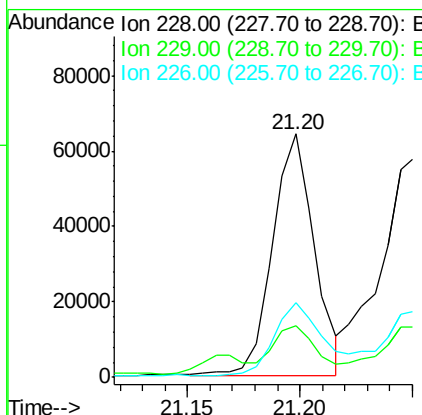
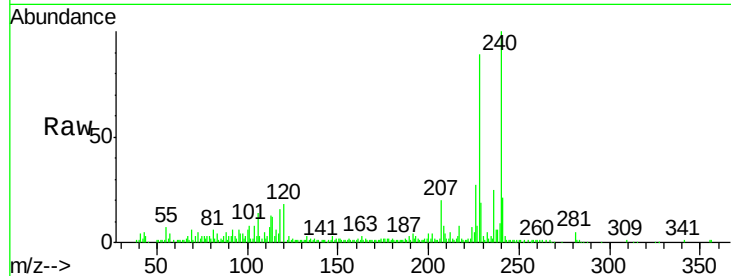
#20  
Benzo(a)anthracene  
Concen: 3.418 ng/ul m  
RT: 21.20 min Scan# 3096  
Delta R.T. -0.00 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

Instrument :  
BNA\_N  
ClientSampleId :  
DAS82MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.0  | 15.7  | 23.5  |
| 226     | 30.6  | 21.1  | 31.7  |

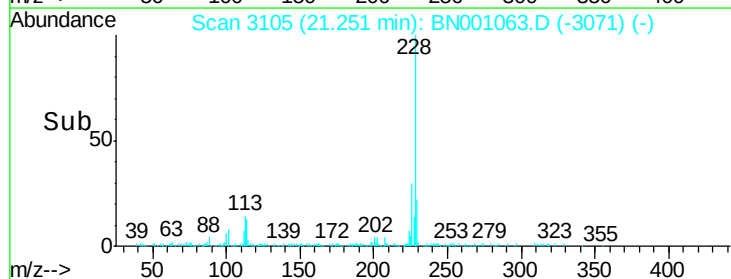
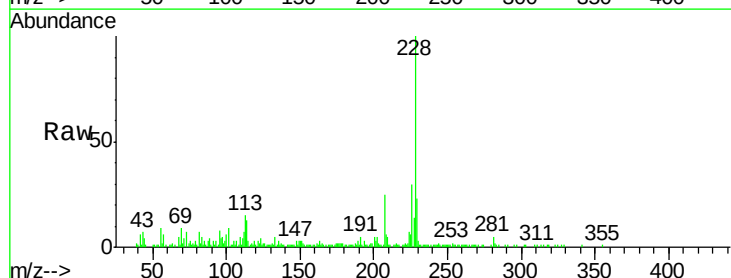
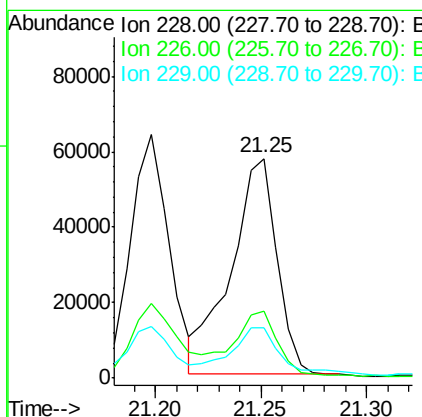
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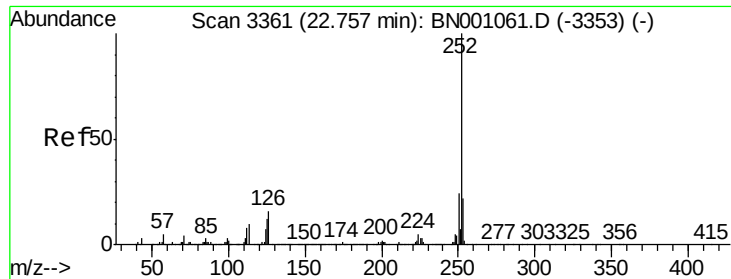
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#21  
Chrysene  
Concen: 3.835 ng/ul  
RT: 21.25 min Scan# 3105  
Delta R.T. -0.00 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 24.5  | 36.7  |
| 229     | 23.0  | 15.8  | 23.8  |





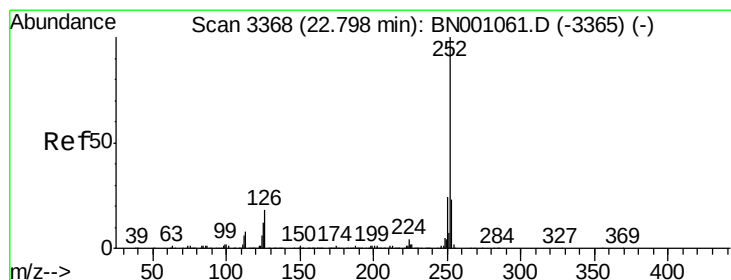
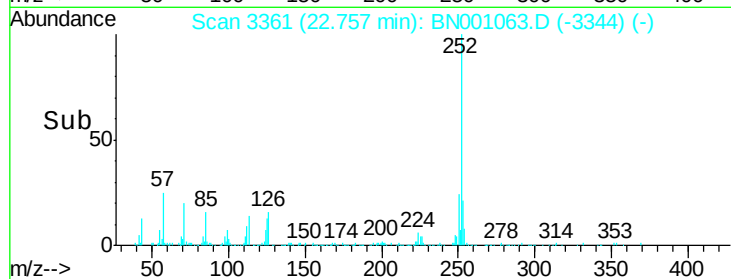
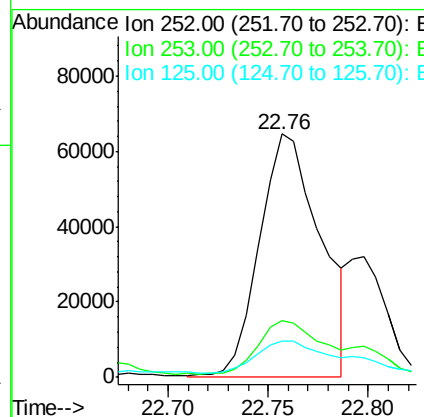
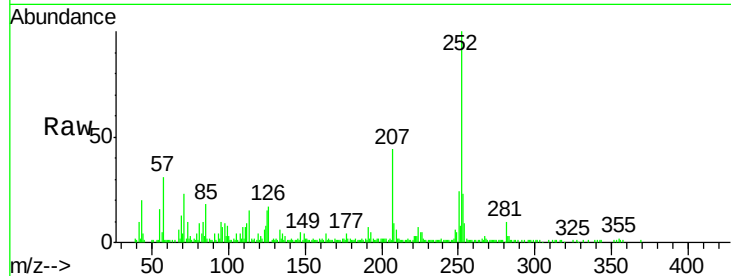
#23  
Benzo(b)fluoranthene  
Concen: 5.608 ng/ul m  
RT: 22.76 min Scan# 3361  
Delta R.T. -0.00 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

Instrument :  
BNA\_N  
ClientSampleId :  
DAS82MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.0  | 27.0  |
| 125     | 14.9  | 8.0   | 12.0  |

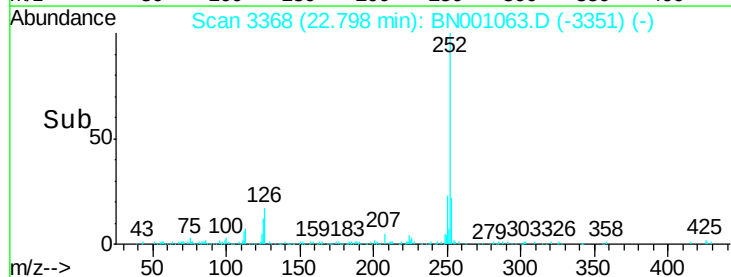
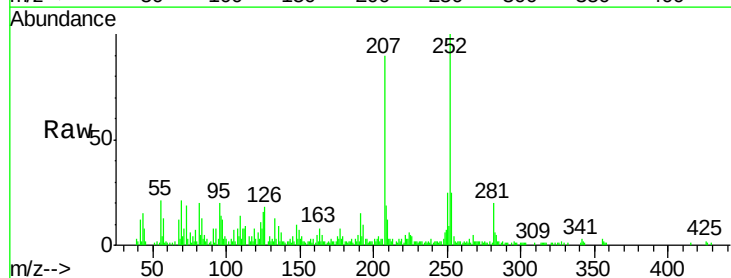
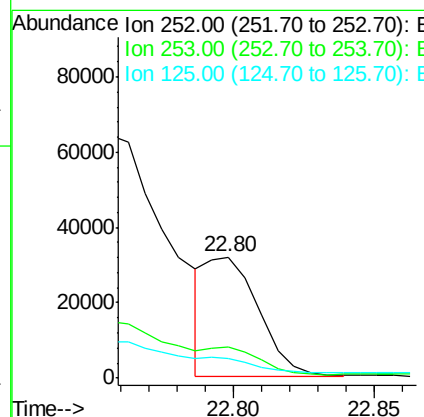
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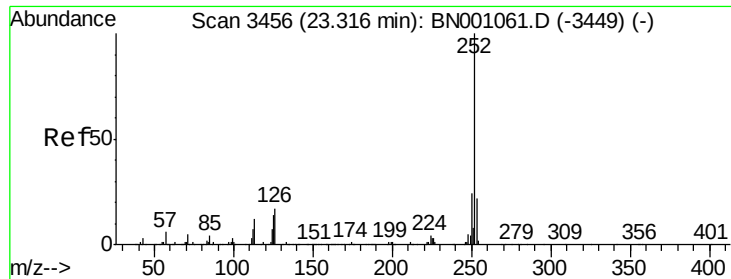
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#24  
Benzo(k)fluoranthene  
Concen: 1.711 ng/ul m  
RT: 22.80 min Scan# 3368  
Delta R.T. -0.00 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 18.0  | 27.0  |
| 125     | 16.2  | 8.1   | 12.1  |





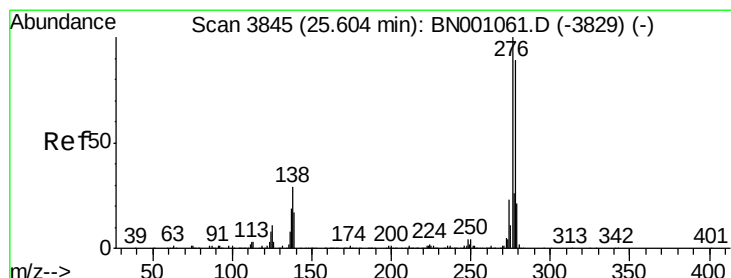
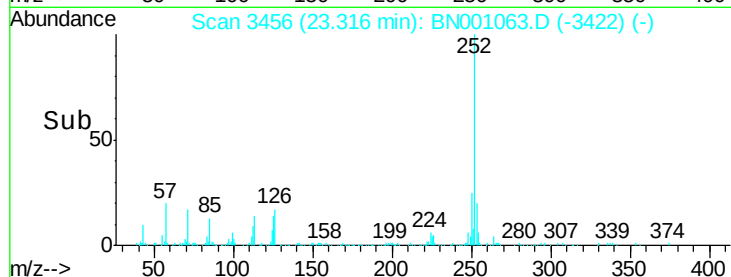
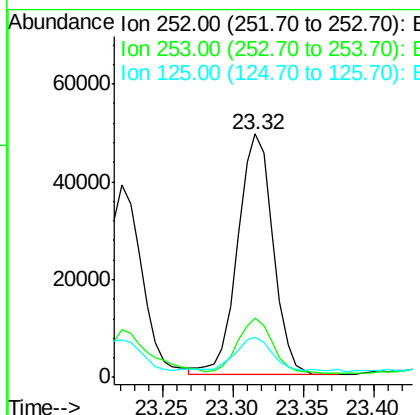
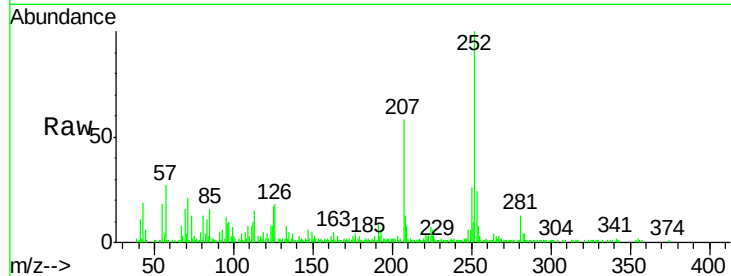
#26  
Benzo(a)pyrene  
Concen: 3.731 ng/ul  
RT: 23.32 min Scan# 3456  
Delta R.T. -0.00 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

Instrument :  
BNA\_N  
ClientSampleId :  
DAS82MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.2  | 25.8  |
| 125     | 16.7  | 8.2   | 12.4  |

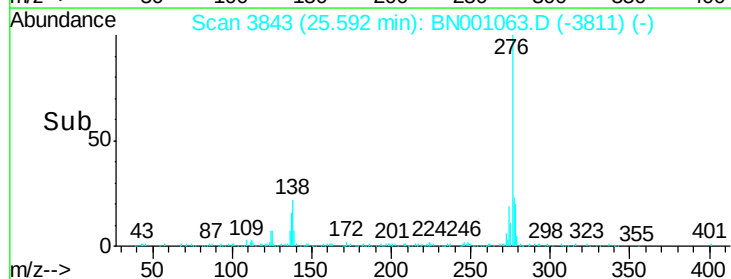
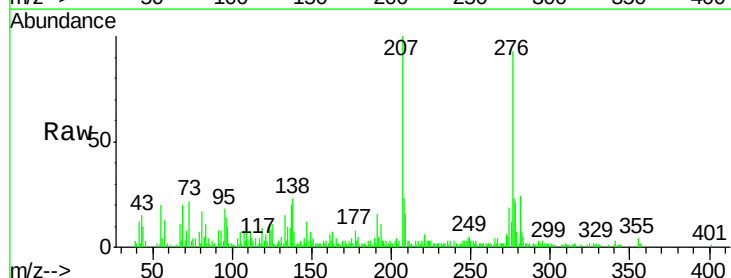
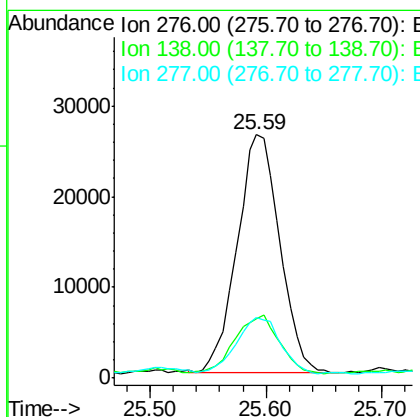
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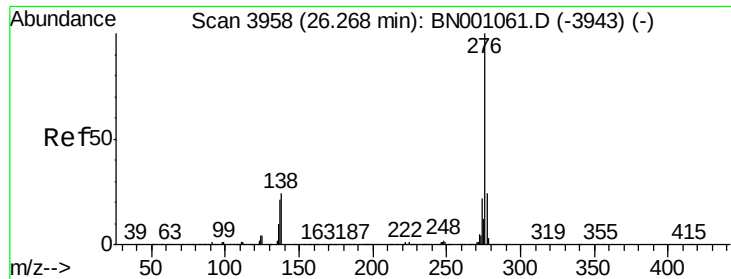
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#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.407 ng/ul  
RT: 25.59 min Scan# 3843  
Delta R.T. -0.01 min  
Lab File: BN001063.D  
Acq: 02 May 2018 10:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.3  | 14.4  | 21.6  |
| 277     | 24.7  | 18.0  | 27.0  |





#29

Benzo(a,h,i)perylene

Concen: 2.903 ng/ul

RT: 26.26 min Scan# 3957

Delta R.T. -0.01 min

Lab File: BN001063.D

Acq: 02 May 2018 10:50

Instrument :

BNA\_N

ClientSampleId :

DAS82MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.2  | 15.3  | 22.9# |
| 277     | 24.5  | 19.0  | 28.4  |

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