

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN110518\  
 Data File : BN003432.D  
 Acq On : 05 Nov 2018 16:36  
 Operator : MJ/SJ  
 Sample : J5704-21DL 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A40H9DL

Manual Integrations  
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 11/6/2018 1:23:55 PM

Quant Time: Nov 05 17:42:58 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN110118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 05 15:40:40 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.86  | 152  | 10290    | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.65 | 136  | 42647    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.49 | 164  | 23596    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.23 | 188  | 52019    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.41 | 240  | 37613    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.72 | 264  | 34329    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.24 | 152  | 7922     | 0.12   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.25 | 212  | 16915    | 0.12   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 7) Acenaphthylene           | 14.21 | 152  | 8676     | 0.085  | ng/ul  | 97       |
| 9) Fluorene                 | 15.54 | 166  | 3376     | 0.031  | ng/ul# | 97       |
| 12) Phenanthrene            | 17.27 | 178  | 95627    | 0.561  | ng/ul  | 100      |
| 13) Anthracene              | 17.36 | 178  | 6230     | 0.045  | ng/ul# | 94       |
| 15) Fluoranthene            | 19.29 | 202  | 138068   | 0.720  | ng/ul  | 100      |
| 17) Pyrene                  | 19.65 | 202  | 103601   | 0.757  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 28066    | 0.238  | ng/ul  | 92       |
| 19) Chrysene                | 21.45 | 228  | 45514    | 0.340  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 23.02 | 252  | 57980m   | 0.392  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.06 | 252  | 21049m   | 0.147  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.62 | 252  | 32970    | 0.267  | ng/ul# | 88       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.08 | 276  | 28859    | 0.218  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 26.09 | 278  | 7032     | 0.065  | ng/ul# | 46       |
| 26) Benzo(g,h,i)perylene    | 26.81 | 276  | 20441    | 0.180  | ng/ul# | 90       |

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

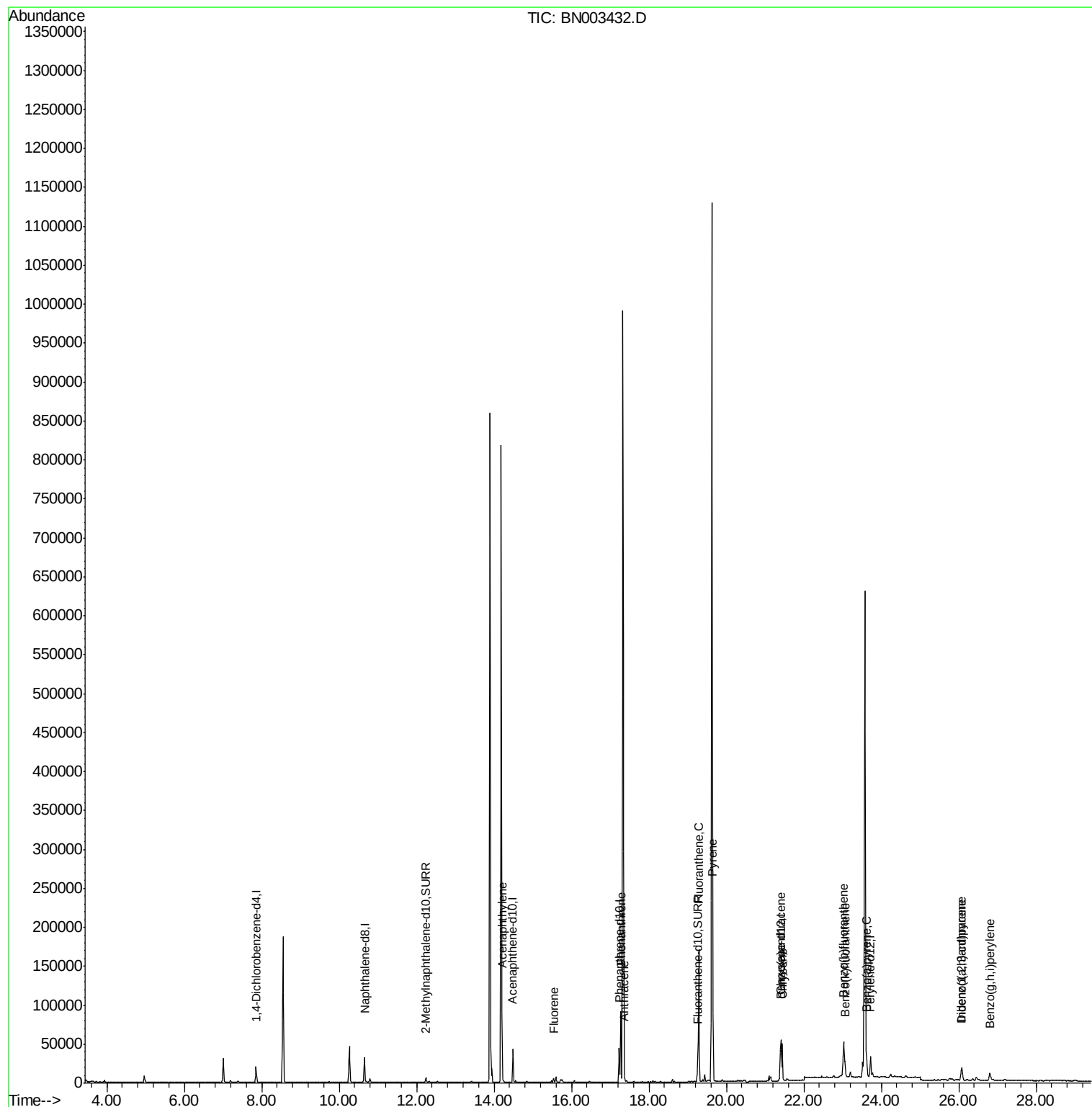
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN110518\  
Data File : BN003432.D  
Acq On : 05 Nov 2018 16:36  
Operator : MJ/SJ  
Sample : J5704-21DL 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

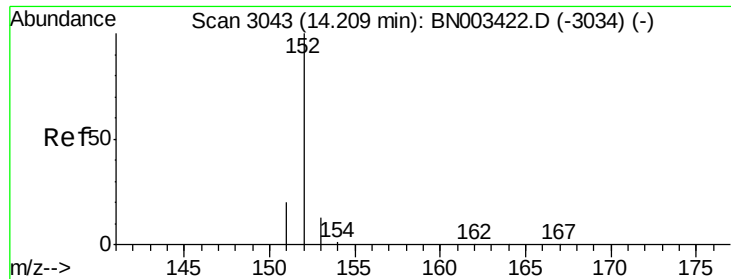
Instrument :  
BNA\_N  
ClientSampleId :  
A40H9DL

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Quant Time: Nov 05 17:42:58 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN110118.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 05 15:40:40 2018  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.085 ng/ul

RT: 14.21 min Scan# 3044

Delta R.T. 0.00 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

Instrument :

BNA\_N

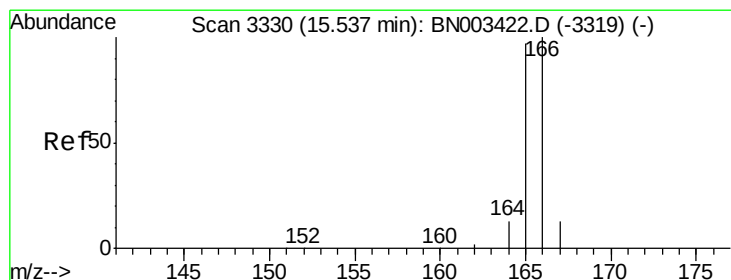
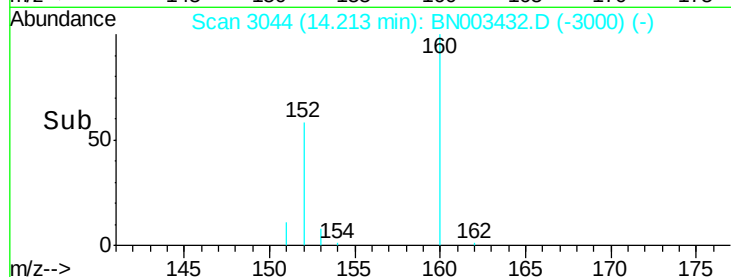
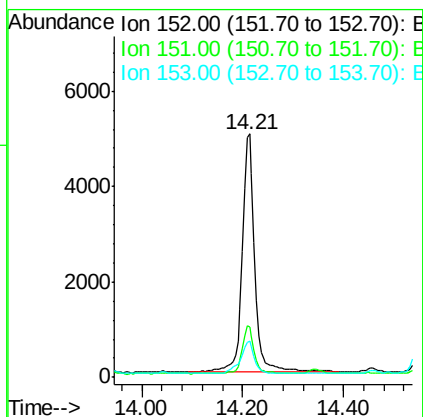
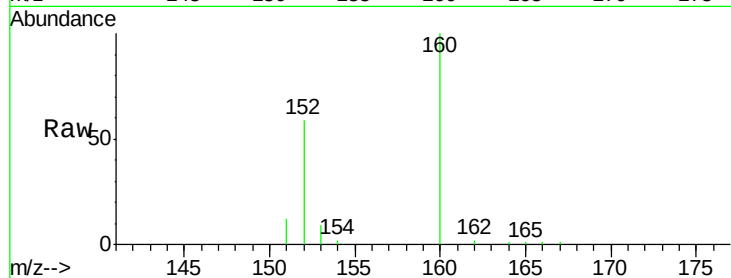
ClientSampleId :

A40H9DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 8676 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.6  | 15.6  | 23.4 |
| 153       | 14.7  | 10.4  | 15.6 |

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#9

Fluorene

Concen: 0.031 ng/ul

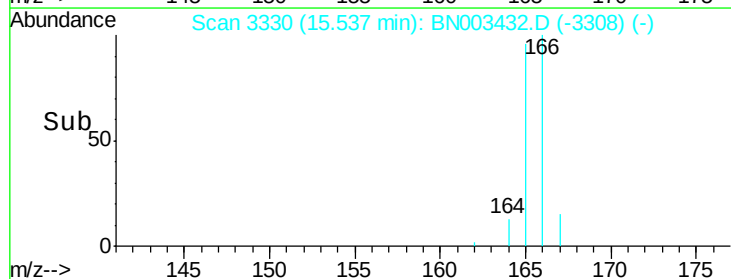
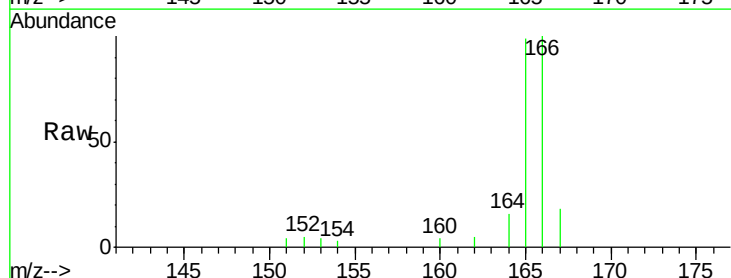
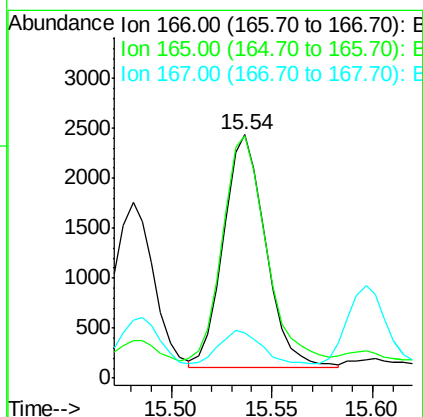
RT: 15.54 min Scan# 3330

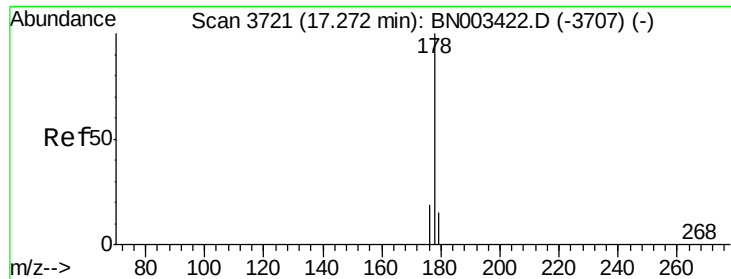
Delta R.T. -0.00 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 3376  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.4  | 78.3  | 117.5 |
| 167       | 18.5  | 10.8  | 16.2# |





#12

Phenanthrene

Concen: 0.561 ng/ul

RT: 17.27 min Scan# 3721

Delta R.T. -0.00 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

Instrument :

BNA\_N

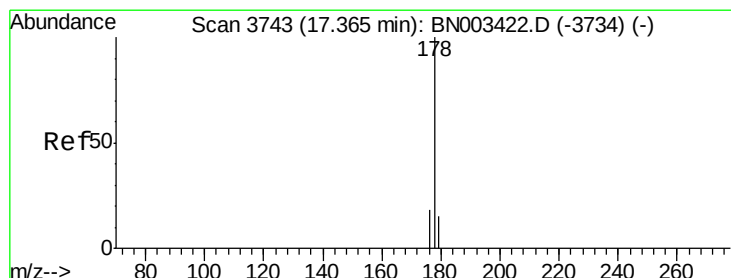
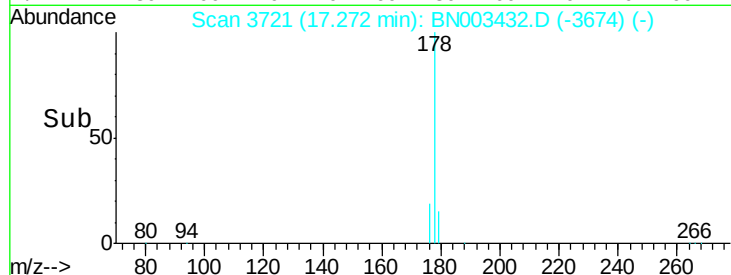
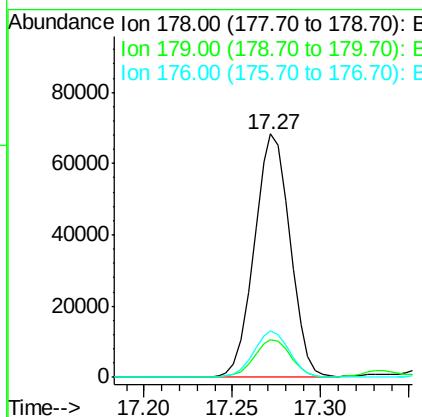
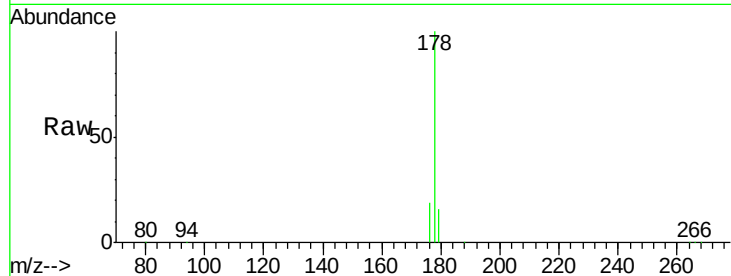
ClientSampleId :

A40H9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 95627 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.6  | 12.4  | 18.6  |
| 176       | 19.0  | 15.0  | 22.4  |

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#13

Anthracene

Concen: 0.045 ng/ul

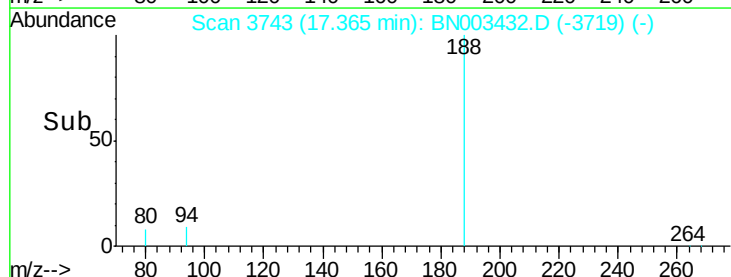
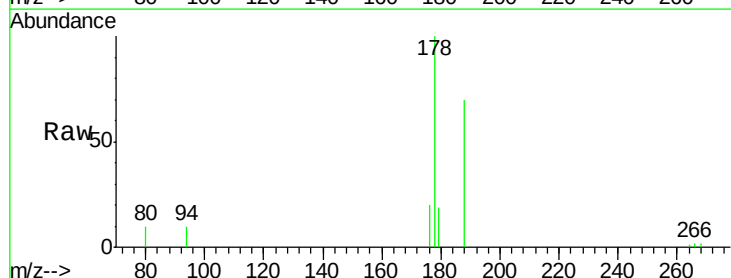
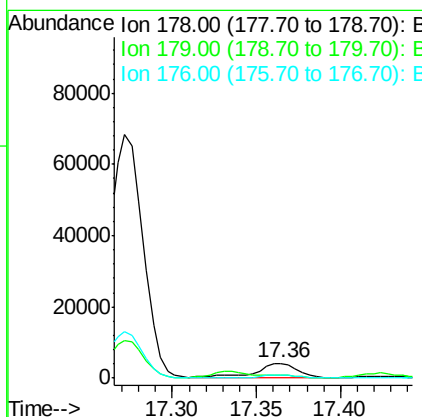
RT: 17.36 min Scan# 3743

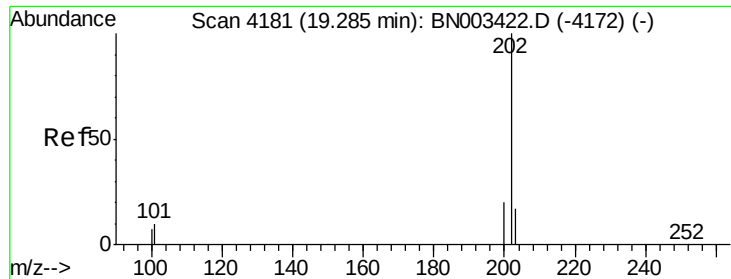
Delta R.T. -0.00 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 6230  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.9  | 12.2  | 18.2# |
| 176       | 19.6  | 14.7  | 22.1  |





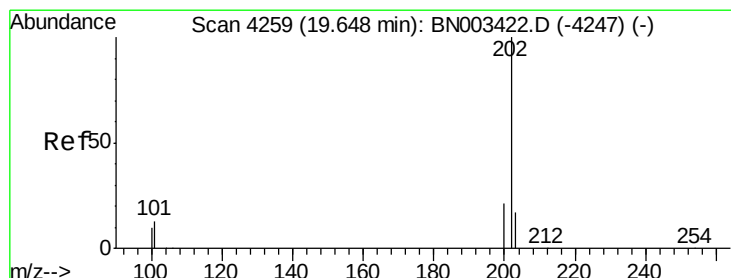
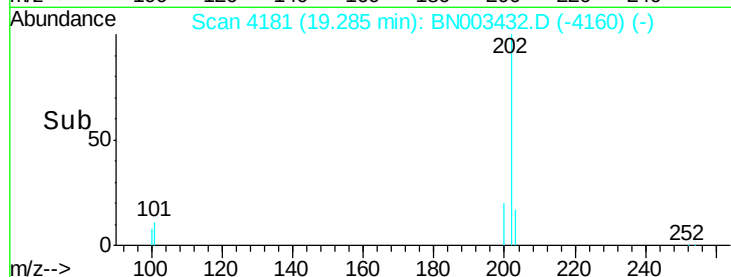
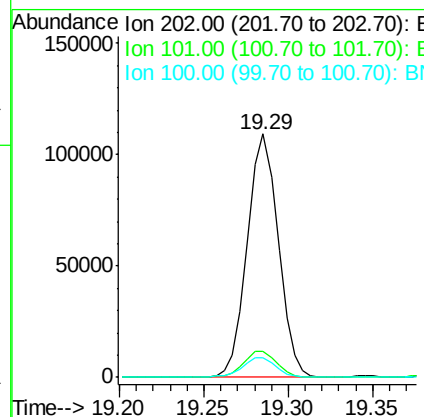
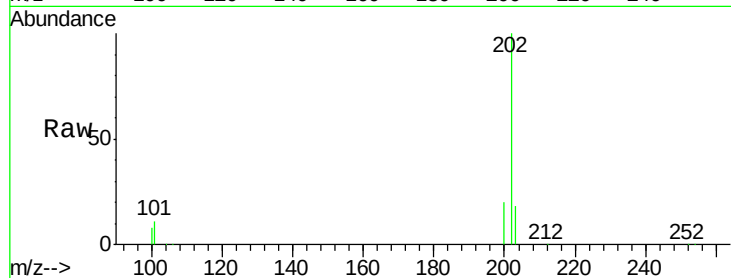
#15  
**Fluoranthene**  
 Concen: 0.720 ng/ul  
 RT: 19.29 min Scan# 4181  
 Delta R.T. -0.00 min  
 Lab File: BN003432.D  
 Acq: 05 Nov 2018 16:36

Instrument :  
 BNA\_N  
 ClientSampled :  
 A40H9DL

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.8  | 0.0        | 30.7  |
| 100     | 8.0   | 0.0        | 28.0  |

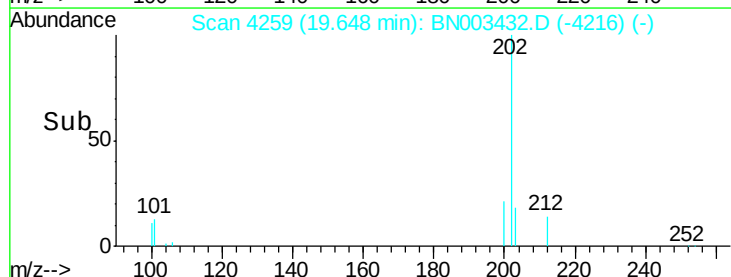
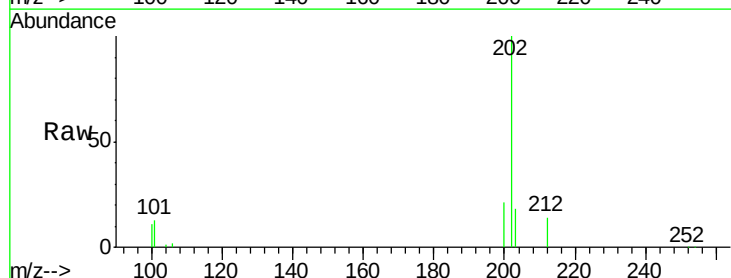
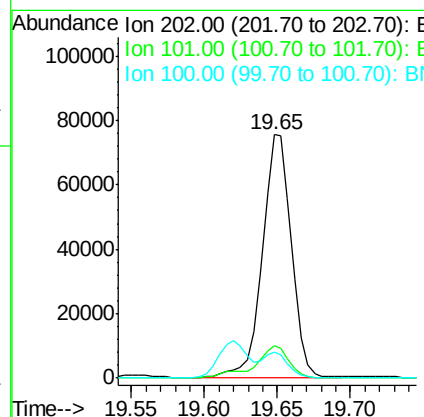
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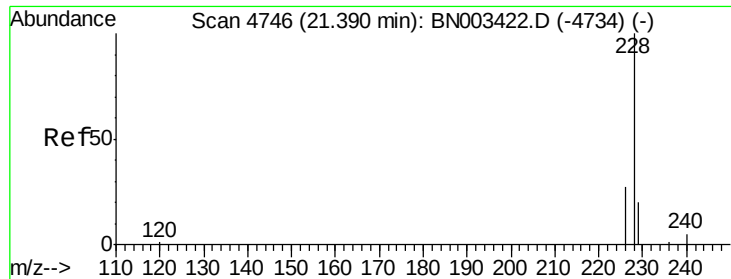
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#17  
**Pyrene**  
 Concen: 0.757 ng/ul  
 RT: 19.65 min Scan# 4259  
 Delta R.T. -0.00 min  
 Lab File: BN003432.D  
 Acq: 05 Nov 2018 16:36

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.4  | 9.5        | 14.3  |
| 100     | 10.8  | 7.5        | 11.3  |





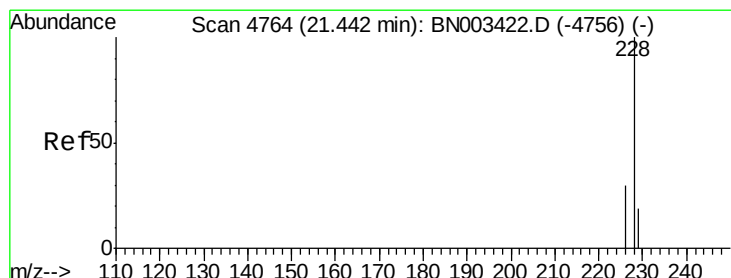
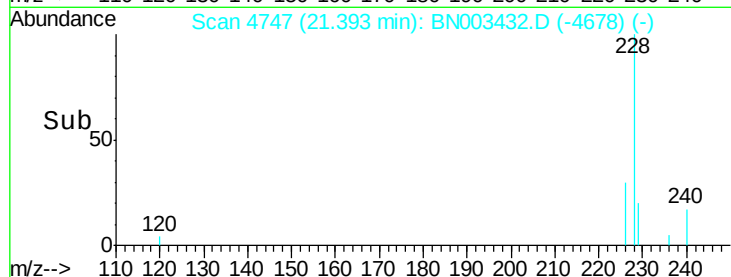
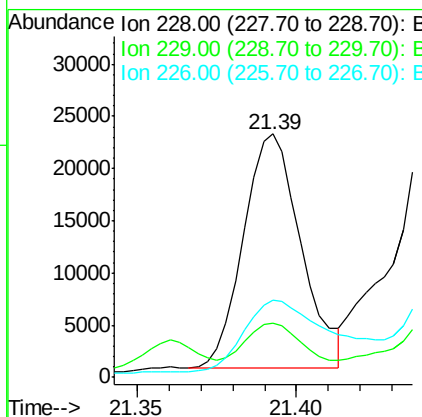
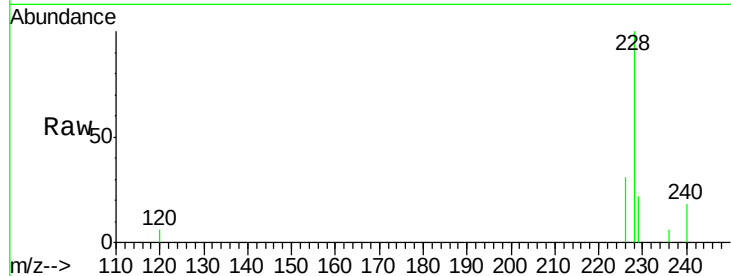
#18  
Benzo(a)anthracene  
Concen: 0.238 ng/ul  
RT: 21.39 min Scan# 4747  
Delta R.T. 0.00 min  
Lab File: BN003432.D  
Acq: 05 Nov 2018 16:36

Instrument :  
BNA\_N  
ClientSampleId :  
A40H9DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.2  | 15.5  | 23.3  |
| 226     | 31.5  | 21.5  | 32.3  |

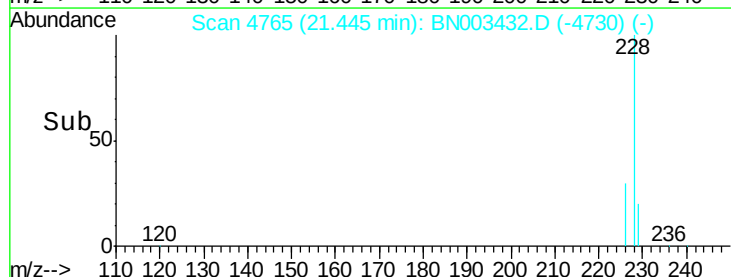
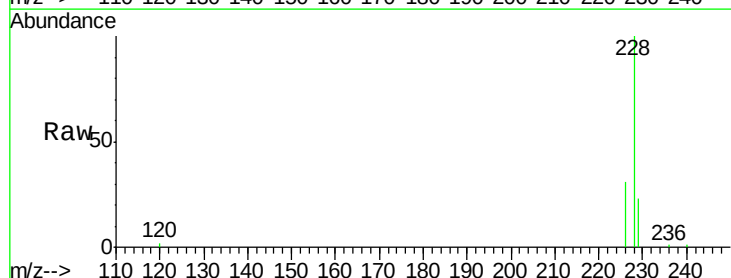
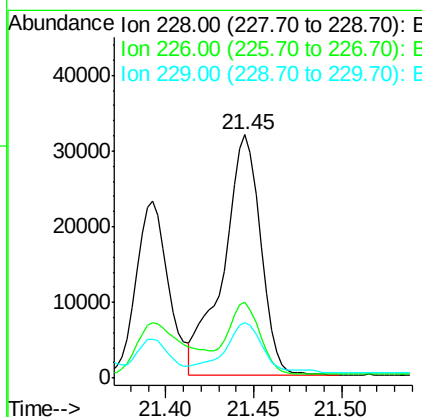
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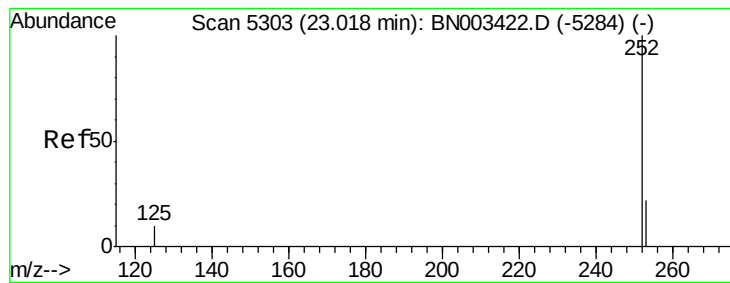
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#19  
Chrysene  
Concen: 0.340 ng/ul  
RT: 21.45 min Scan# 4765  
Delta R.T. 0.00 min  
Lab File: BN003432.D  
Acq: 05 Nov 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.0  | 23.8  | 35.6  |
| 229     | 22.9  | 15.5  | 23.3  |





#21

Benzo(b)fluoranthene

Concen: 0.392 ng/ul m

RT: 23.02 min Scan# 5305

Delta R.T. 0.01 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

Instrument :

BNA\_N

ClientSampleId :

A40H9DL

Tgt Ion:252 Resp: 57980

Ion Ratio Lower Upper

252 100

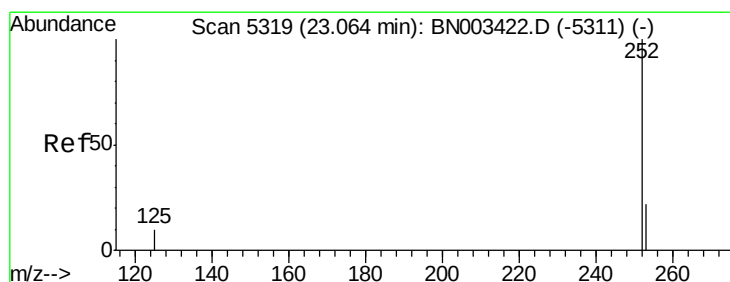
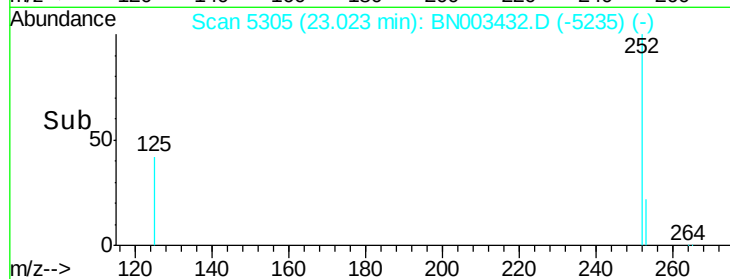
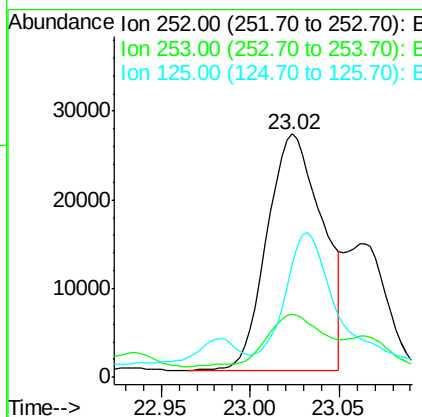
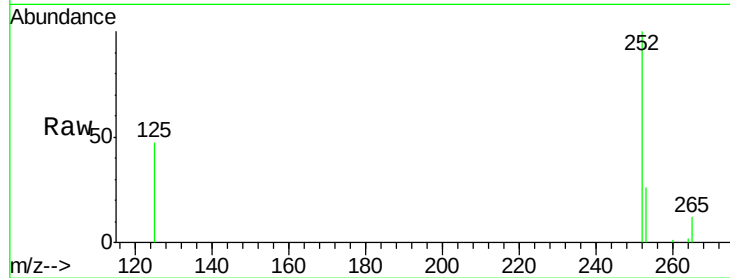
253 25.9 0.0 45.6

125 46.6 0.0 21.8#

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#22

Benzo(k)fluoranthene

Concen: 0.147 ng/ul m

RT: 23.06 min Scan# 5319

Delta R.T. -0.00 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

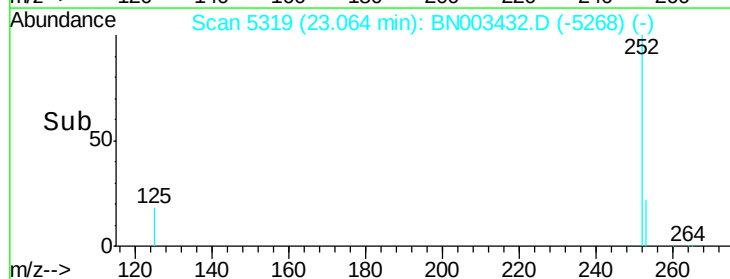
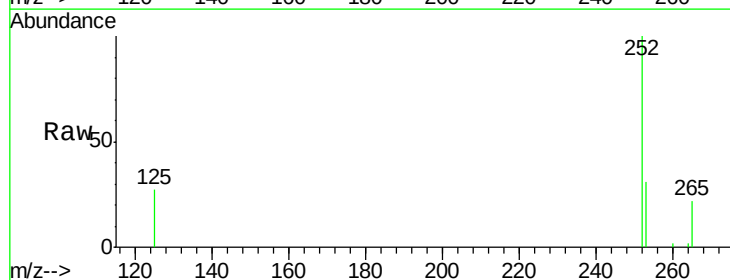
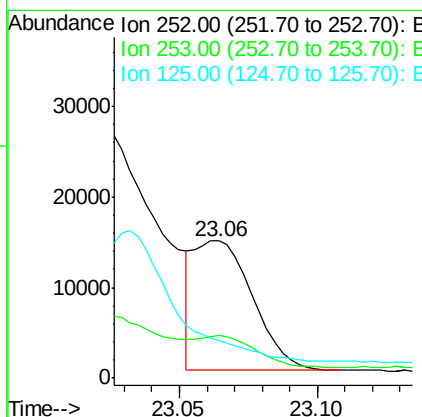
Tgt Ion:252 Resp: 21049

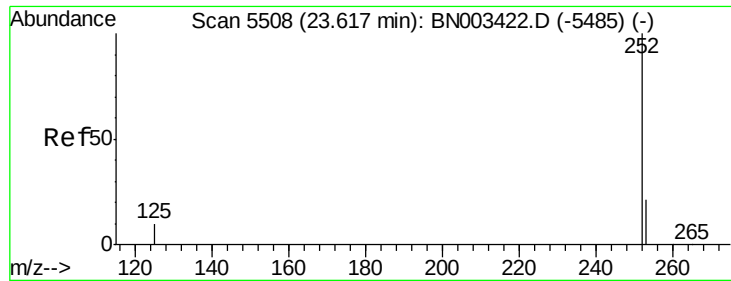
Ion Ratio Lower Upper

252 100

253 30.8 18.2 27.4#

125 27.3 8.6 13.0#





#23

Benzo(a)pyrene

Concen: 0.267 ng/ul

RT: 23.62 min Scan# 5510

Delta R.T. 0.01 min

Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

Instrument :

BNA\_N

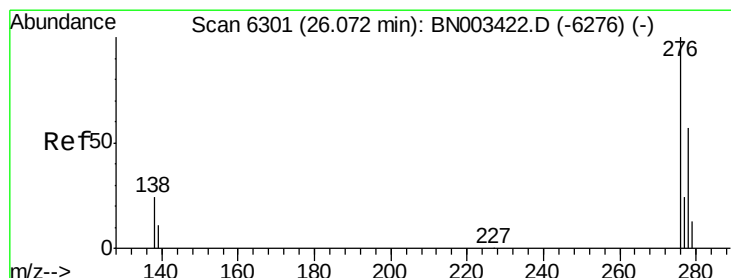
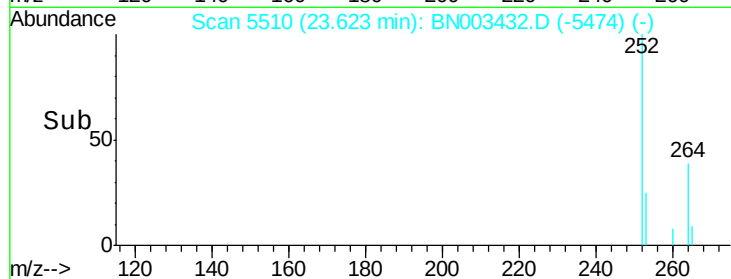
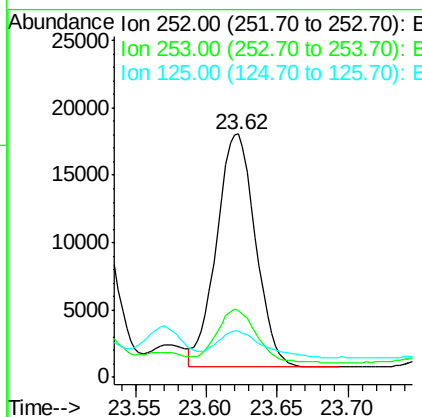
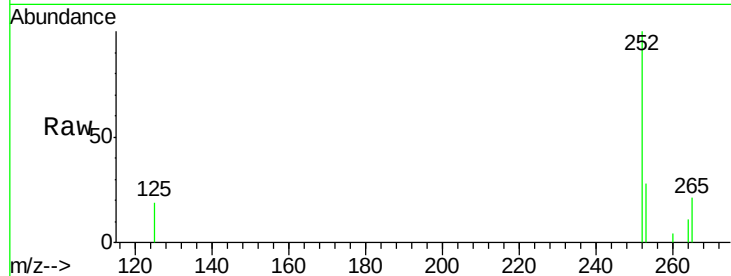
ClientSampleId :

A40H9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 32970 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.7  | 18.5  | 27.7  |
| 125       | 19.0  | 9.9   | 14.9# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.218 ng/ul

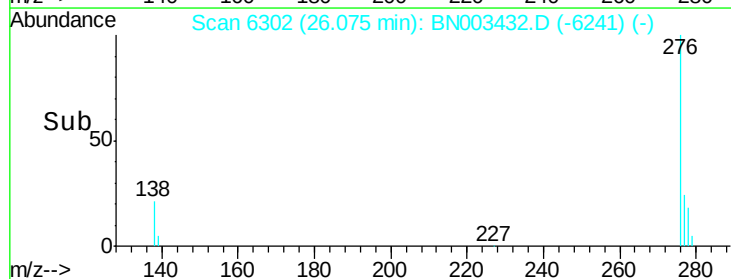
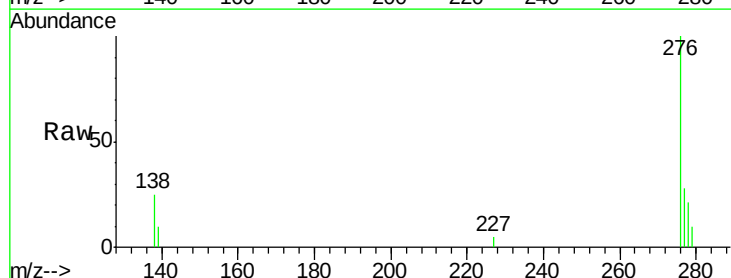
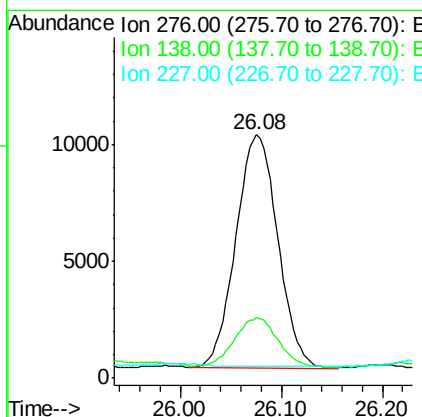
RT: 26.08 min Scan# 6302

Delta R.T. 0.00 min

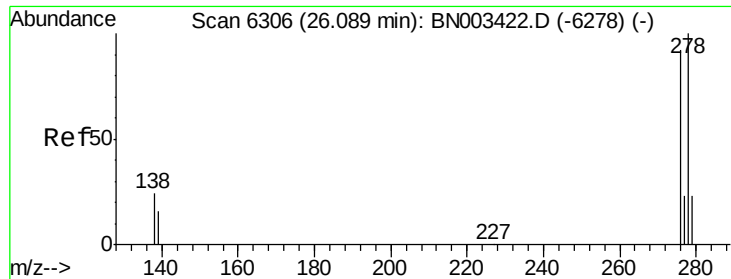
Lab File: BN003432.D

Acq: 05 Nov 2018 16:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28859 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 21.7  | 19.8  | 29.8  |
| 227       | 0.0   | 0.2   | 0.2#  |







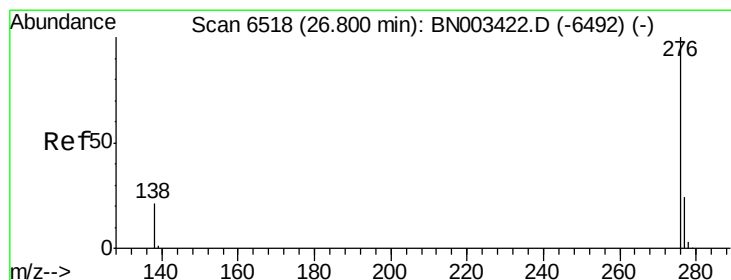
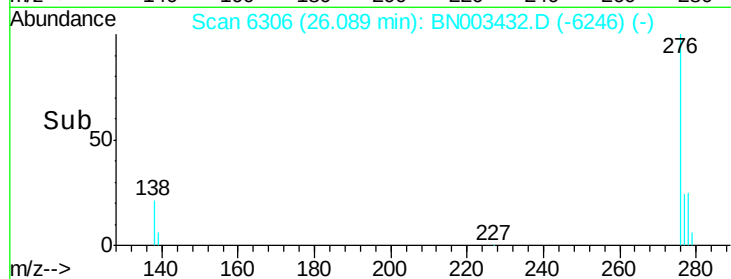
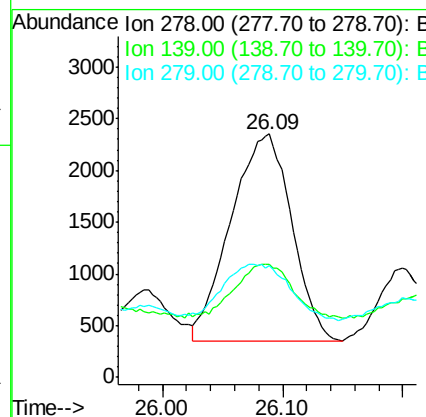
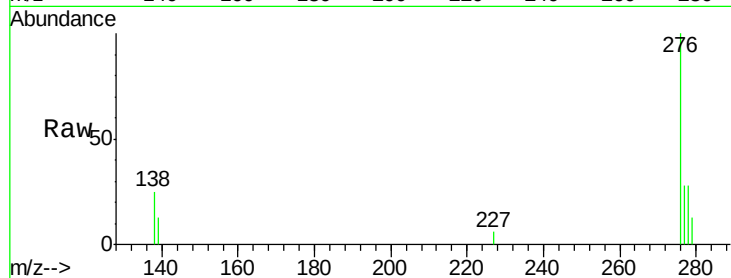
#25  
Dibenzo(a,h)anthracene  
Concen: 0.065 ng/ul  
RT: 26.09 min Scan# 6306  
Delta R.T. -0.00 min  
Lab File: BN003432.D  
Acq: 05 Nov 2018 16:36

Instrument :  
BNA\_N  
ClientSampled :  
A40H9DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 46.2  | 13.1  | 19.7# |
| 279     | 45.9  | 19.5  | 29.3# |

Manual Integrations  
APPROVED

Sohil  
11/6/2018 1:23:55 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.180 ng/ul  
RT: 26.81 min Scan# 6520  
Delta R.T. 0.01 min  
Lab File: BN003432.D  
Acq: 05 Nov 2018 16:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 17.0  | 25.6# |
| 277     | 28.8  | 19.2  | 28.8# |

