

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082318\  
 Data File : BN002490.D  
 Acq On : 24 Aug 2018 05:32  
 Operator : JU/SJ  
 Sample : J4424-14  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3Z60

Manual Integrations  
 APPROVED

Sohil  
 8/24/2018 5:12:01 PM

Quant Time: Aug 24 07:04:32 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 24 02:20:09 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.68  | 152  | 1664     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.44 | 136  | 6974     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.31 | 164  | 4084     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.05 | 188  | 9875m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.25 | 240  | 11419m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.47 | 264  | 10443m   | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.04 | 152  | 2610     | 0.24   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 7576m    | 0.26   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.49 | 128  | 5378     | 0.299  | ng/ul# | 96       |
| 5) 2-Methylnaphthalene      | 12.12 | 142  | 1585     | 0.127  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.02 | 152  | 25377    | 1.327  | ng/ul  | 95       |
| 8) Acenaphthene             | 14.37 | 153  | 2543     | 0.174  | ng/ul# | 94       |
| 9) Fluorene                 | 15.36 | 166  | 9443     | 0.565  | ng/ul  | 94       |
| 12) Phenanthrene            | 17.09 | 178  | 164272m  | 5.624  | ng/ul  |          |
| 13) Anthracene              | 17.18 | 178  | 25383m   | 1.011  | ng/ul  |          |
| 15) Fluoranthene            | 19.11 | 202  | 270275m  | 7.870  | ng/ul  |          |
| 17) Pyrene                  | 19.48 | 202  | 227384   | 5.838  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.23 | 228  | 111487m  | 3.265  | ng/ul  |          |
| 19) Chrysene                | 21.29 | 228  | 125485m  | 3.250  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 22.81 | 252  | 184824m  | 4.927  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.85 | 252  | 68427m   | 1.765  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.37 | 252  | 121286m  | 3.439  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.68 | 276  | 86516m   | 2.354  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.68 | 278  | 21319m   | 0.736  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 26.35 | 276  | 79124m   | 2.513  | ng/ul  |          |

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

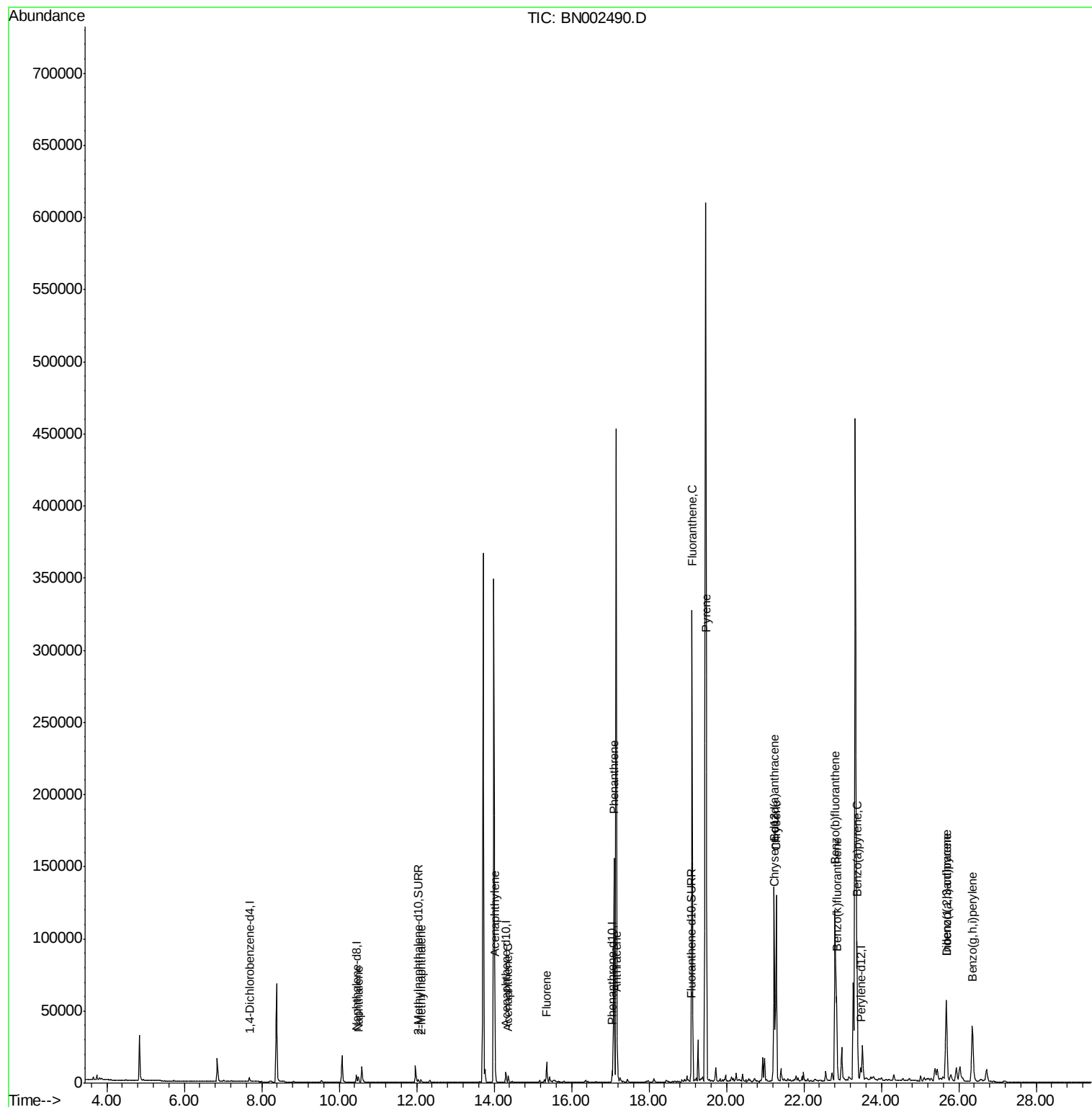
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082318\  
Data File : BN002490.D  
Acq On : 24 Aug 2018 05:32  
Operator : JU/SJ  
Sample : J4424-14  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

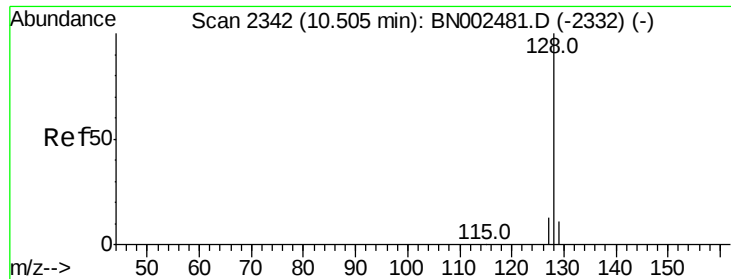
Instrument :  
BNA\_N  
ClientSampleId :  
A3Z60

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Quant Time: Aug 24 07:04:32 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 24 02:20:09 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.299 ng/ul

RT: 10.49 min Scan# 2340

Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

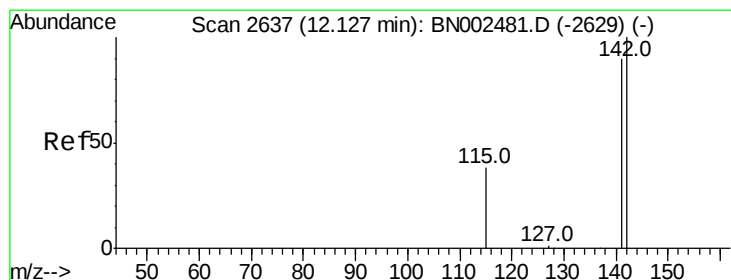
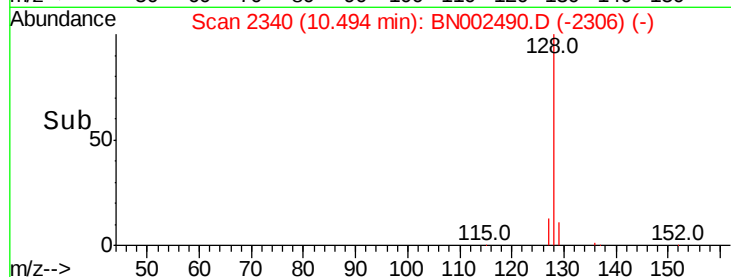
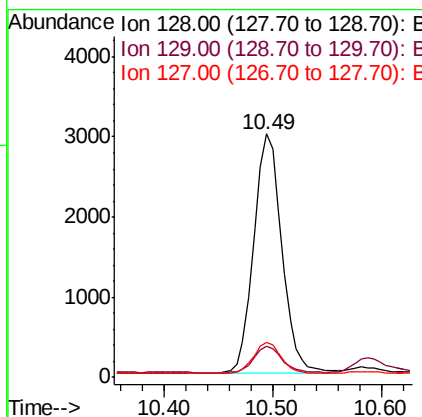
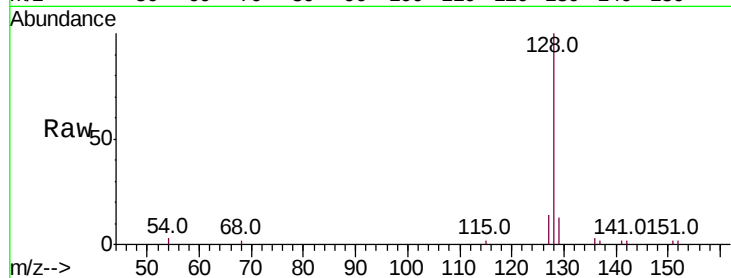
ClientSampleId :

A3Z60

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 5378  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.9  | 8.0   | 12.0# |
| 127      | 14.3  | 12.0  | 18.0  |

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#5

2-Methylnaphthalene

Concen: 0.127 ng/ul

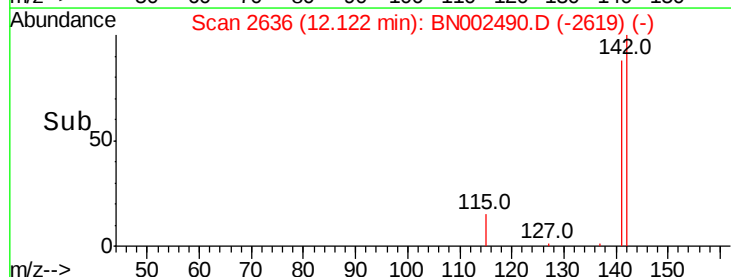
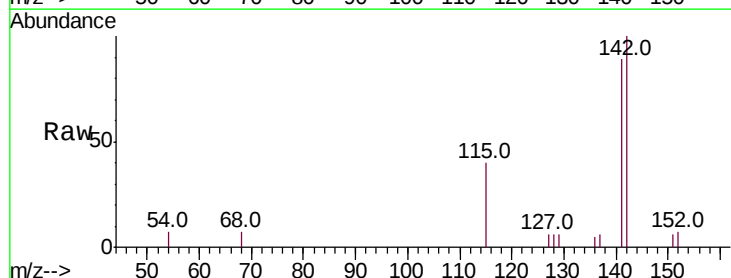
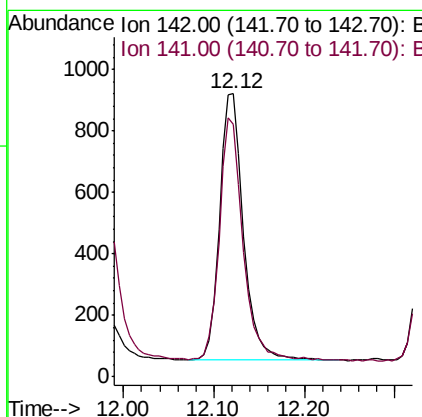
RT: 12.12 min Scan# 2636

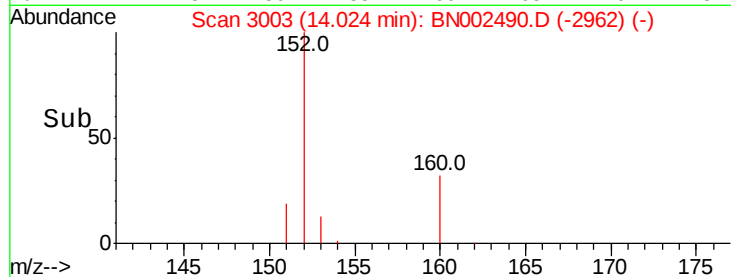
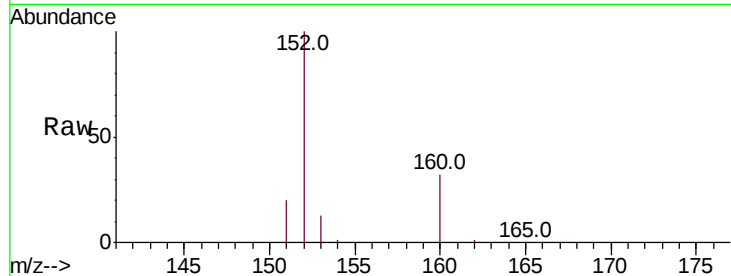
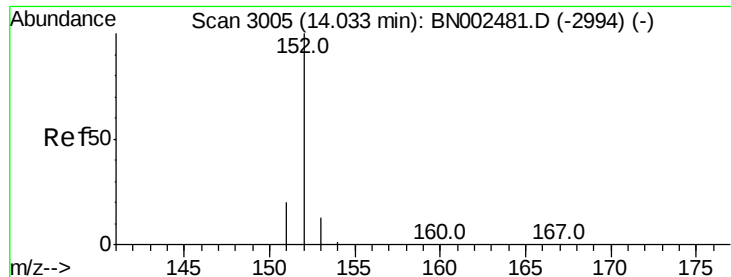
Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 1585  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 91.4  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 1.327 ng/ul

RT: 14.02 min Scan# 3003

Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

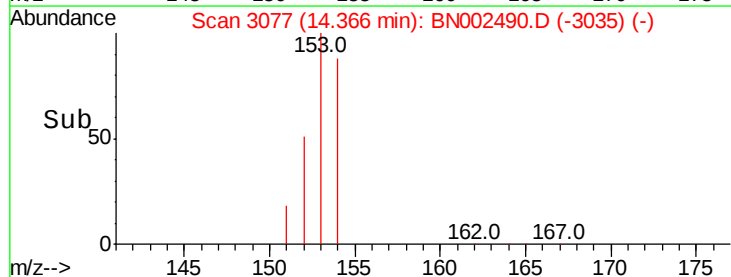
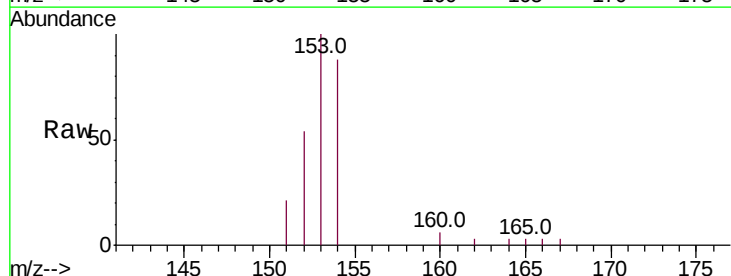
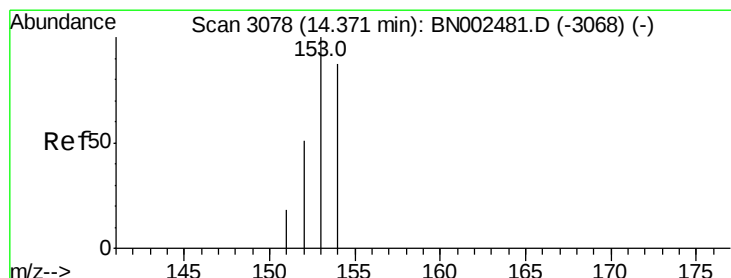
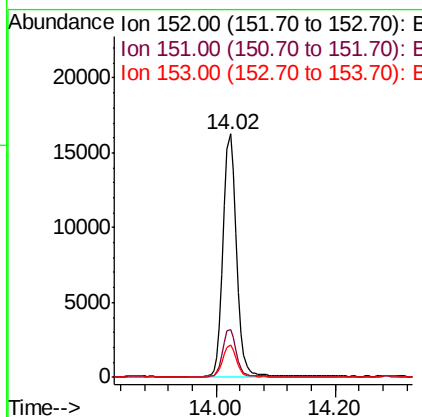
ClientSampleId :

A3Z60

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 25377 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 17.1  | 25.7  |
| 153       | 13.4  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 0.174 ng/ul

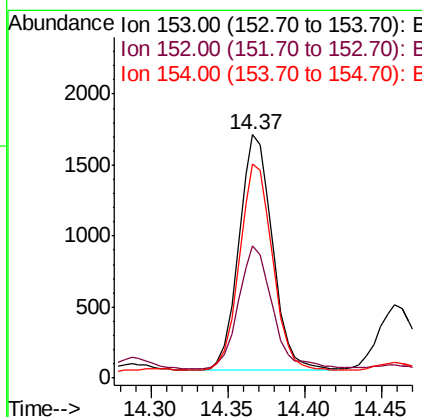
RT: 14.37 min Scan# 3077

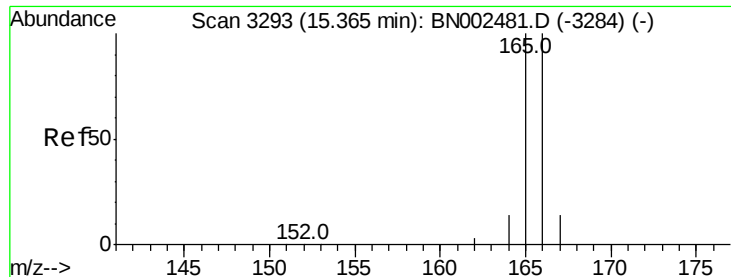
Delta R.T. -0.00 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2543  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 54.2  | 36.0  | 54.0# |
| 154       | 87.7  | 72.0  | 108.0 |





#9

Fluorene

Concen: 0.565 ng/ul

RT: 15.36 min Scan# 3292

Delta R.T. -0.00 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

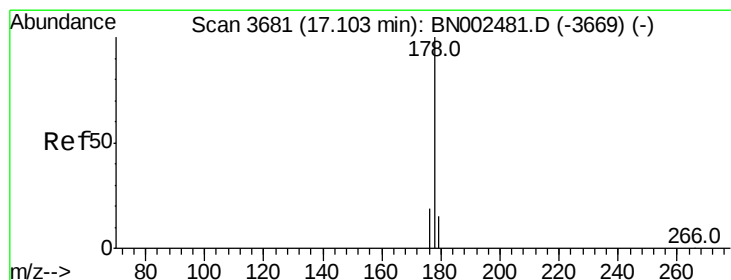
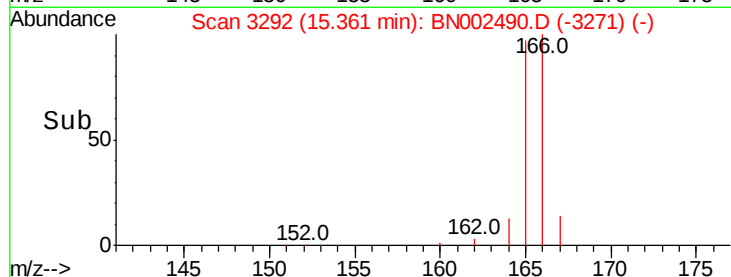
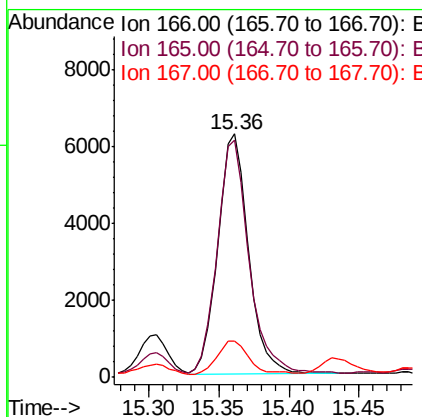
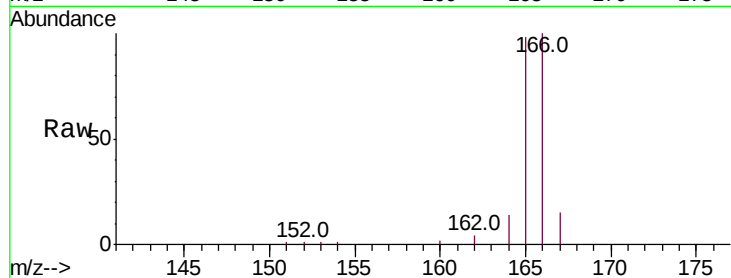
ClientSampleId :

A3Z60

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 9443  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.5  | 73.4  | 110.2 |
| 167       | 15.0  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 5.624 ng/ul m

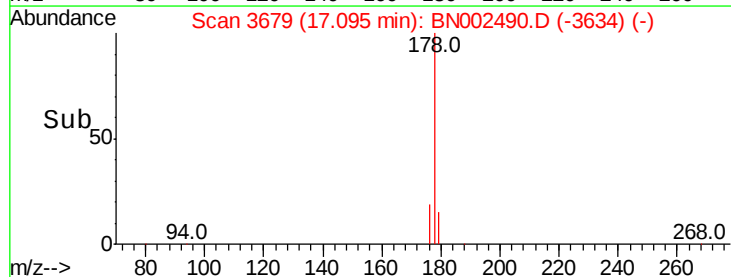
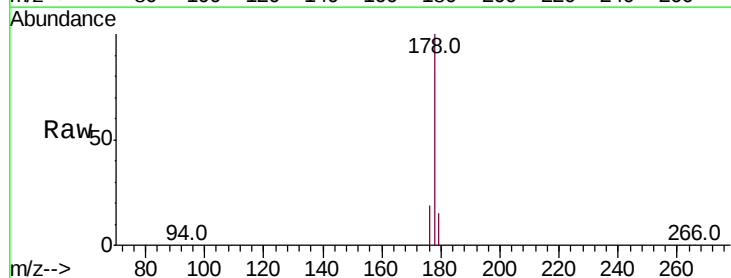
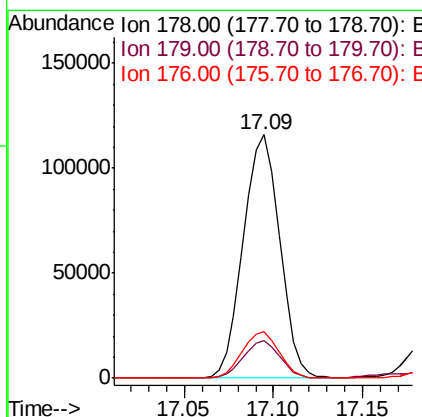
RT: 17.09 min Scan# 3679

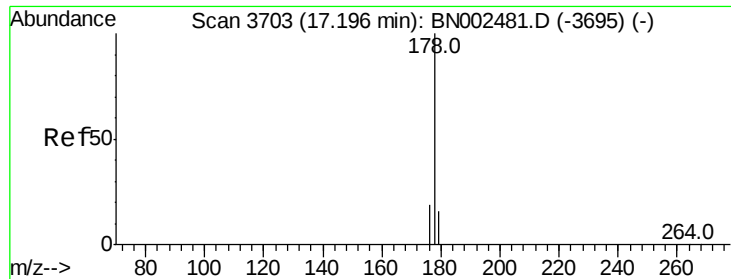
Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 164272 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.2  | 18.4  | 27.6#  |
| 176       | 19.0  | 13.6  | 20.4   |





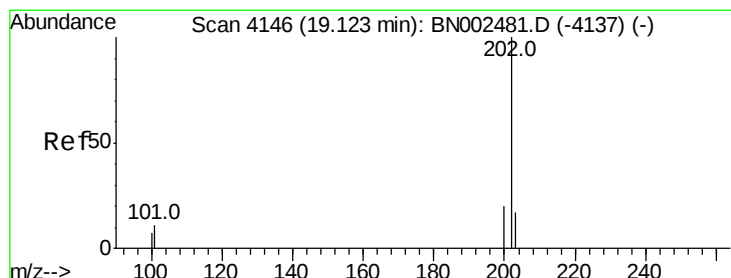
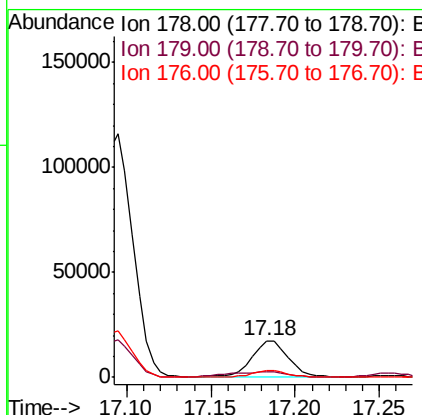
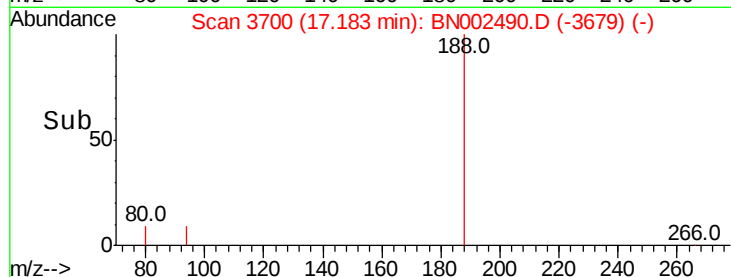
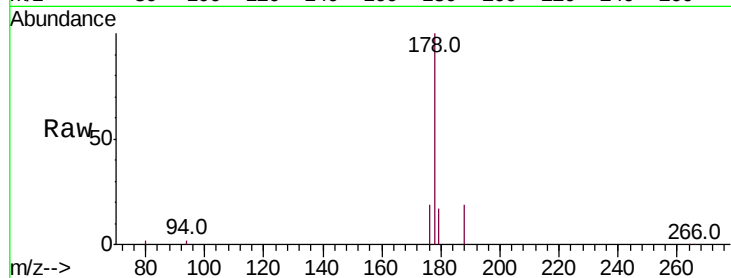
#13  
 Anthracene  
 Concen: 1.011 ng/ul m  
 RT: 17.18 min Scan# 3700  
 Delta R.T. -0.01 min  
 Lab File: BN002490.D  
 Acq: 24 Aug 2018 05:32

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A3Z60

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.8  | 18.1  | 27.1# |
| 176     | 19.0  | 14.7  | 22.1  |

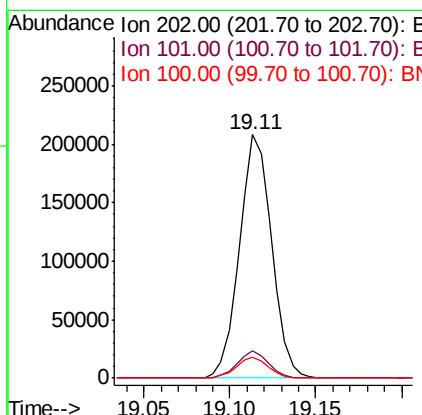
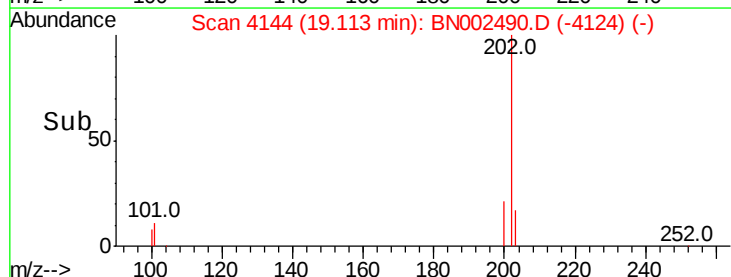
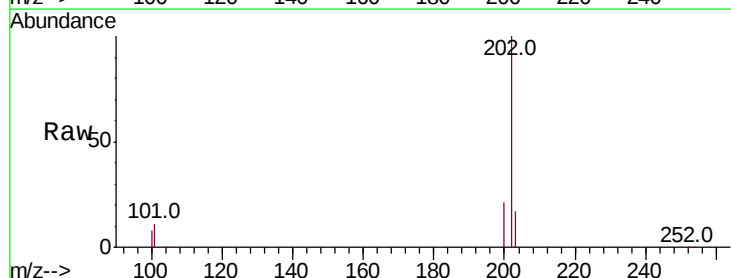
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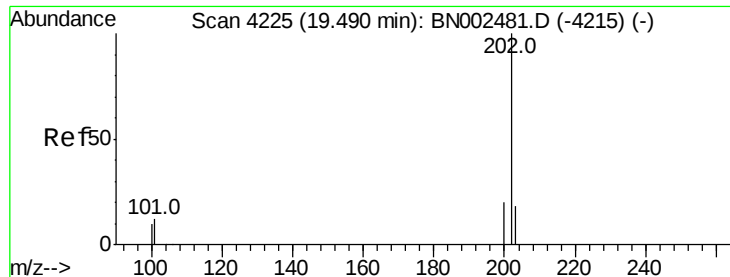
Sohil  
 8/24/2018 5:12:01 PM



#15  
 Fluoranthene  
 Concen: 7.870 ng/ul m  
 RT: 19.11 min Scan# 4144  
 Delta R.T. -0.01 min  
 Lab File: BN002490.D  
 Acq: 24 Aug 2018 05:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 0.0   | 30.0  |
| 100     | 8.3   | 0.0   | 30.0  |





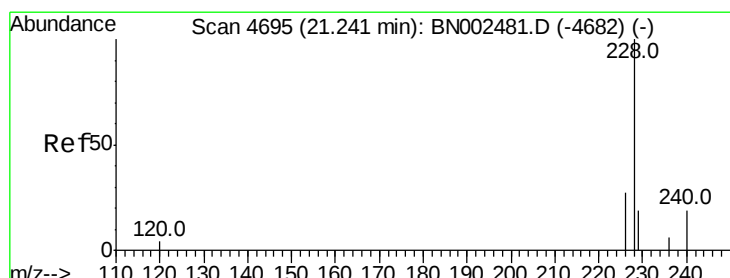
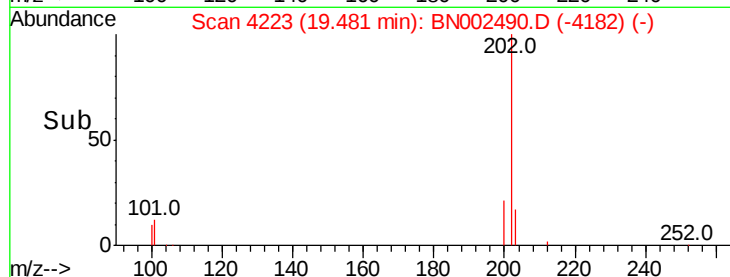
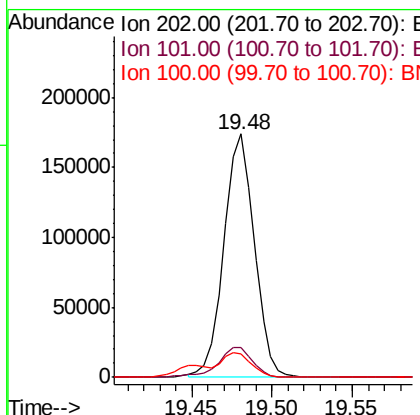
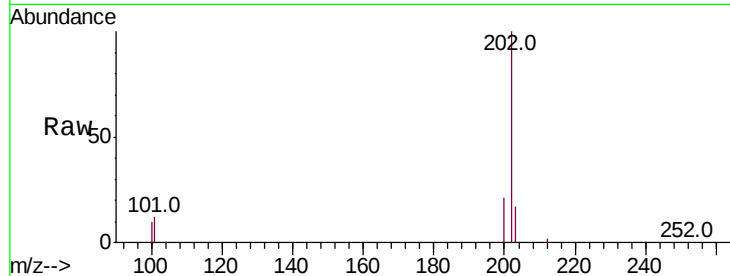
#17  
Pvrene  
Concen: 5.838 ng/ul  
RT: 19.48 min Scan# 4223  
Delta R.T. -0.01 min  
Lab File: BN002490.D  
Acq: 24 Aug 2018 05:32

Instrument :  
BNA\_N  
ClientSampleId :  
A3Z60

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 227384 |       |       |
| 101     | 12.1  |        | 12.0  | 18.0  |
| 100     | 9.7   |        | 8.0   | 12.0  |

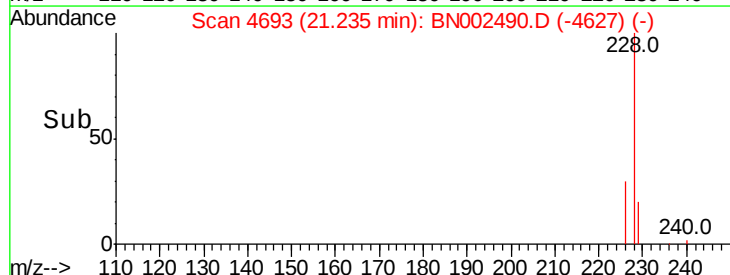
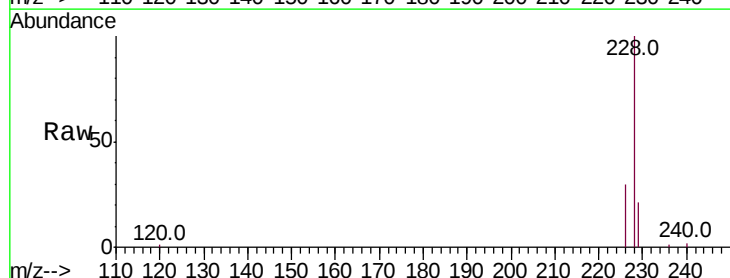
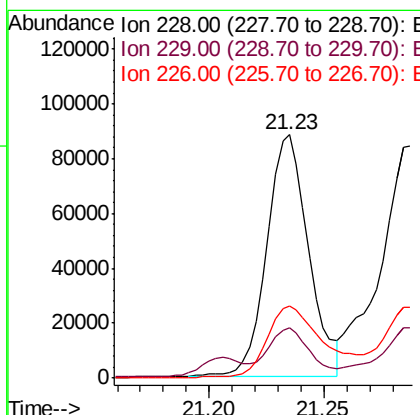
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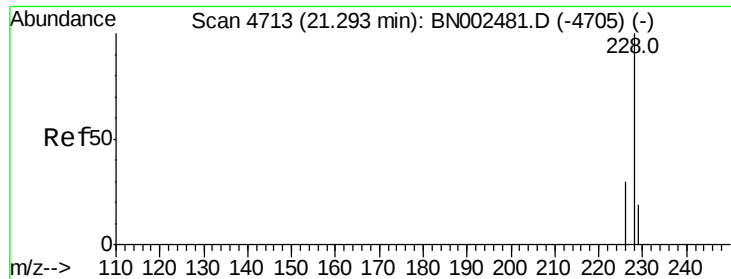
Sohil  
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#18  
Benzo(a)anthracene  
Concen: 3.265 ng/ul m  
RT: 21.23 min Scan# 4693  
Delta R.T. -0.01 min  
Lab File: BN002490.D  
Acq: 24 Aug 2018 05:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 111487 |       |       |
| 229     | 20.6  |        | 22.8  | 34.2# |
| 226     | 29.9  |        | 17.0  | 25.6# |





#19

Chrysene

Concen: 3.250 ng/ul m

RT: 21.29 min Scan# 4711

Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

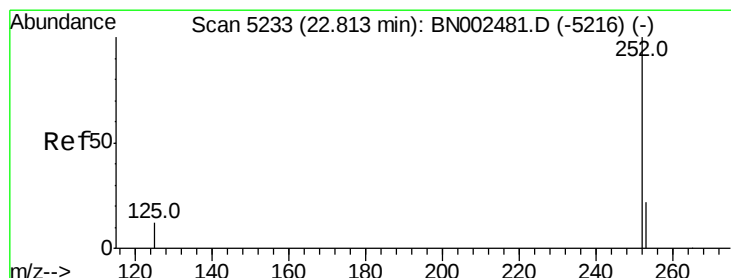
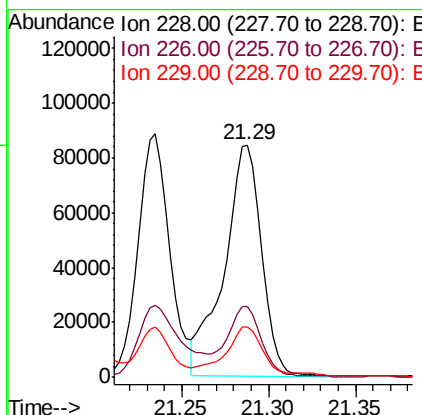
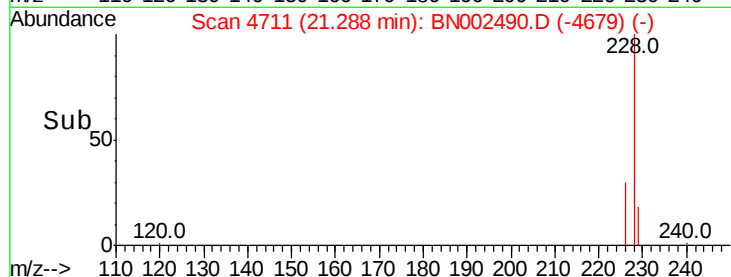
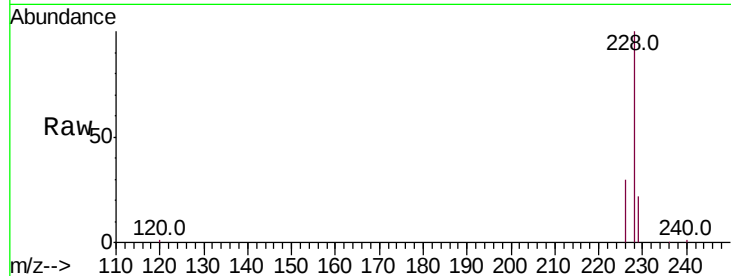
ClientSampled :

A3Z60

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 125485 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.5  | 23.4  | 35.0   |
| 229       | 21.6  | 17.7  | 26.5   |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 4.927 ng/ul m

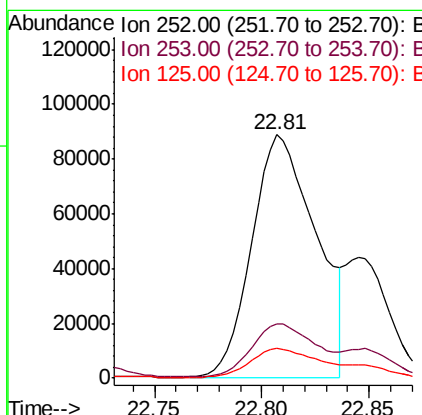
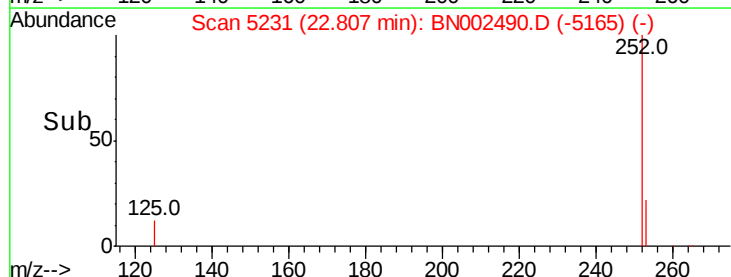
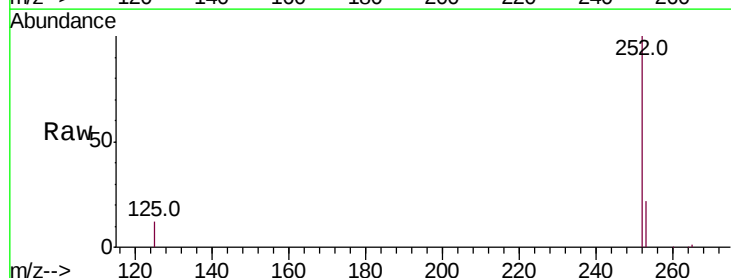
RT: 22.81 min Scan# 5231

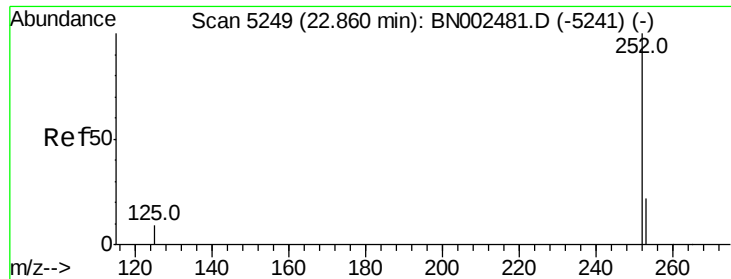
Delta R.T. -0.01 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 184824 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.4  | 0.0   | 64.2   |
| 125       | 12.2  | 0.0   | 35.0   |





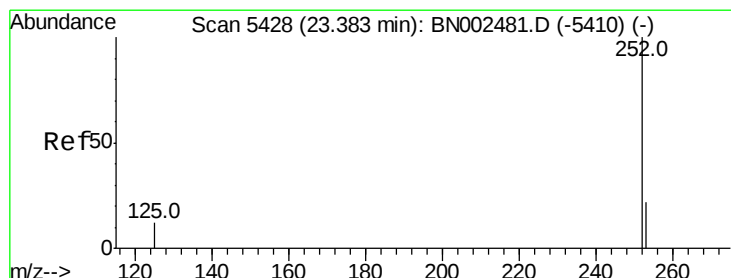
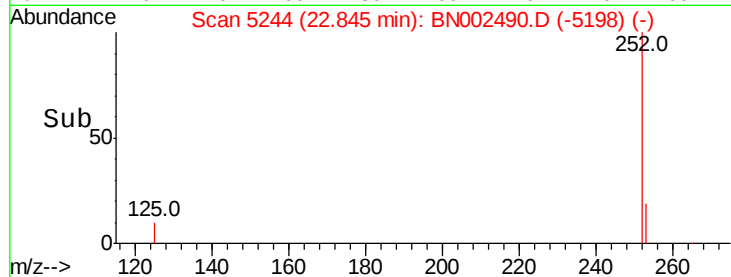
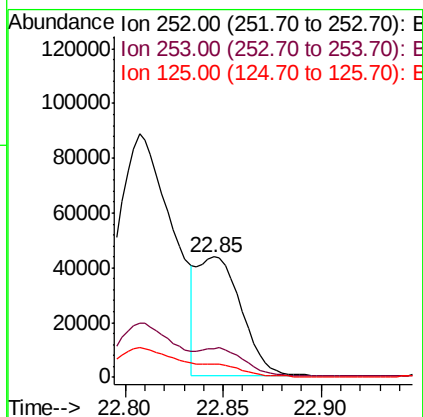
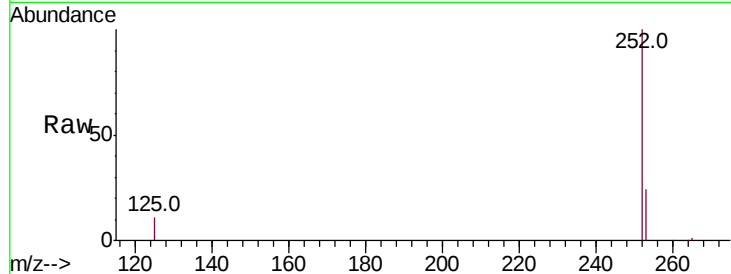
#22  
Benzo(k)fluoranthene  
Concen: 1.765 ng/ul m  
RT: 22.85 min Scan# 5244  
Delta R.T. -0.01 min  
Lab File: BN002490.D  
Acq: 24 Aug 2018 05:32

Instrument :  
BNA\_N  
ClientSampleId :  
A3Z60

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 24.5  | 36.7# |
| 125     | 11.1  | 13.7  | 20.5# |

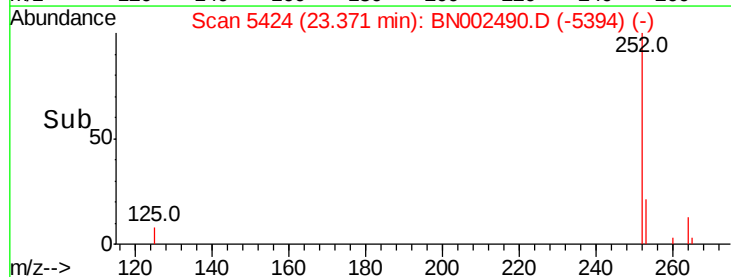
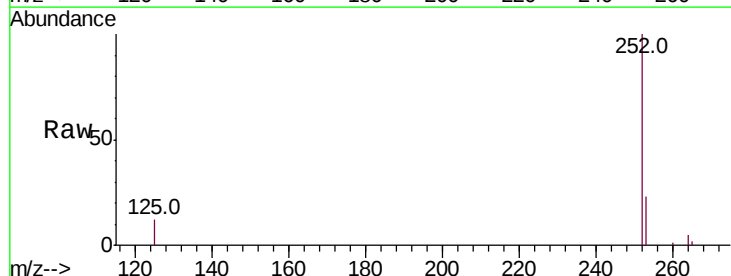
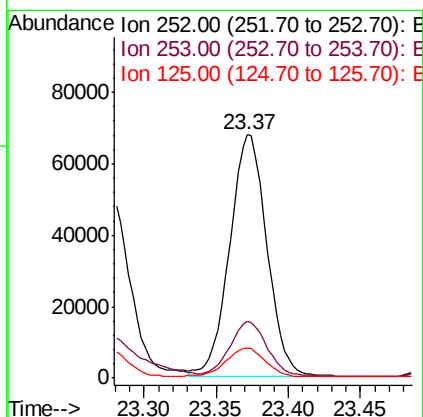
Manual Integrations  
APPROVED

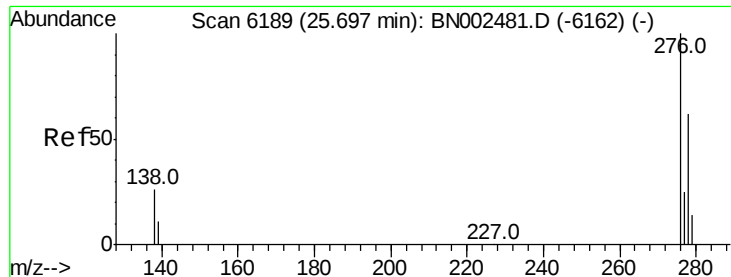
Sohil  
8/24/2018 5:12:01 PM



#23  
Benzo(a)pyrene  
Concen: 3.439 ng/ul m  
RT: 23.37 min Scan# 5424  
Delta R.T. -0.01 min  
Lab File: BN002490.D  
Acq: 24 Aug 2018 05:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 16.0  | 24.0  |
| 125     | 12.4  | 12.0  | 18.0  |





#24

Indeno(1,2,3-cd)pyrene

Concen: 2.354 ng/ul m

RT: 25.68 min Scan# 6184

Delta R.T. -0.02 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

ClientSampleId :

A3Z60

Tot Ion:276 Resp: 86516

Ion Ratio Lower Upper

276 100

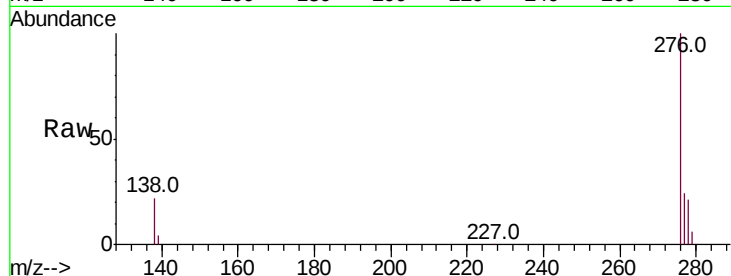
138 2.2 28.0 42.0#

227 0.1 0.8 1.2#

Manual Integrations  
APPROVED

Sohil

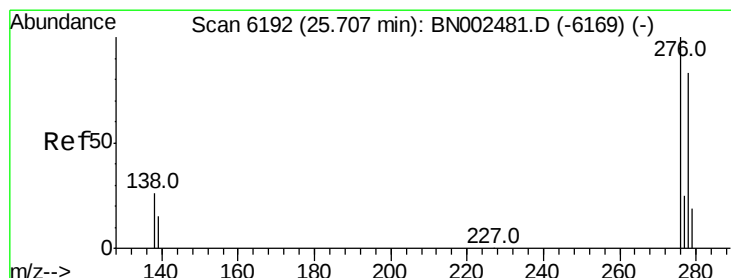
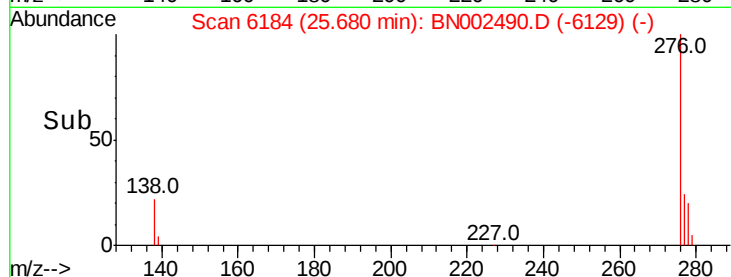
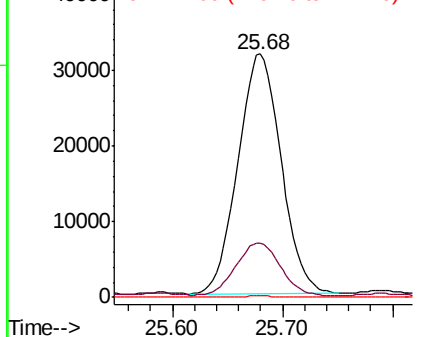
8/24/2018 5:12:01 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25

Dibenzo(a,h)anthracene

Concen: 0.736 ng/ul m

RT: 25.68 min Scan# 6185

Delta R.T. -0.02 min

Lab File: BN002490.D

Acq: 24 Aug 2018 05:32

Tgt Ion:278 Resp: 21319

Ion Ratio Lower Upper

278 100

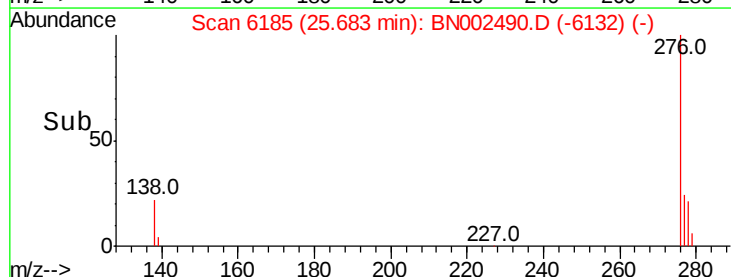
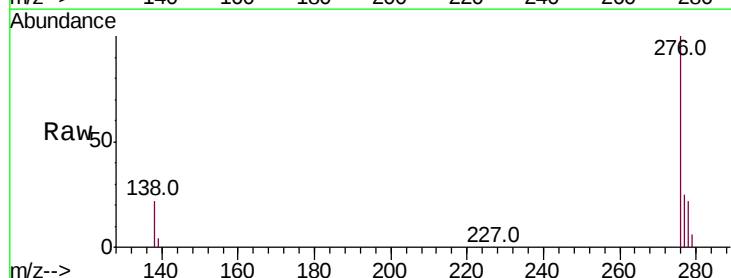
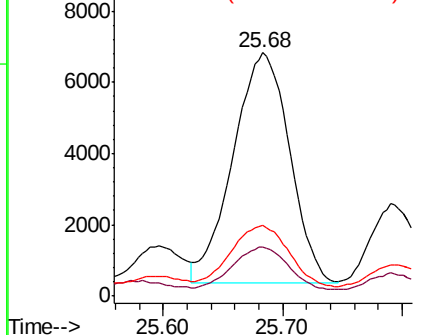
139 20.0 17.4 26.0

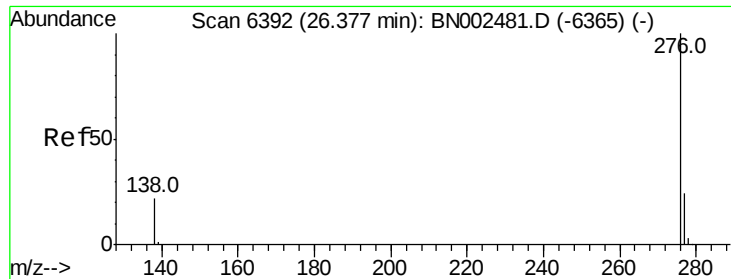
279 28.9 25.9 38.9

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





#26

Benzo(a,h,i)perylene

Concen: 2.513 ng/ul m

RT: 26.35 min Scan# 6385

Delta R.T. -0.02 min

Lab File: BN002490.D

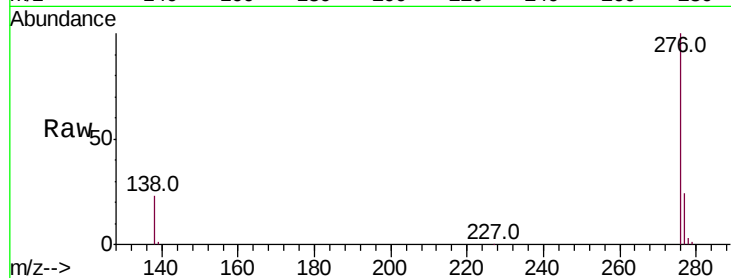
Acq: 24 Aug 2018 05:32

Instrument :

BNA\_N

ClientSampleId :

A3Z60



|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 79124 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.5  | 21.8  | 32.8  |
| 277       | 24.0  | 20.5  | 30.7  |

Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:12:01 PM

