

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082318\  
 Data File : BN002482.D  
 Acq On : 24 Aug 2018 00:50  
 Operator : JU/SJ  
 Sample : J4421-09  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AA7

Manual Integrations  
 APPROVED

Sohil  
 8/24/2018 5:11:53 PM

Quant Time: Aug 24 04:24:42 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  | 1982     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.44 | 136  | 8278     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.31 | 164  | 4716     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.06 | 188  | 11209m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.25 | 240  | 11246m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.47 | 264  | 9877m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.05 | 152  | 2254     | 0.17   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.09 | 212  | 6882m    | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.49 | 128  | 552      | 0.026  | ng/ul# | 70       |
| 7) Acenaphthylene           | 14.02 | 152  | 8948     | 0.405  | ng/ul  | 97       |
| 9) Fluorene                 | 15.36 | 166  | 1001     | 0.052  | ng/ul# | 86       |
| 12) Phenanthrene            | 17.09 | 178  | 32397m   | 0.977  | ng/ul  |          |
| 13) Anthracene              | 17.19 | 178  | 5271m    | 0.185  | ng/ul  |          |
| 15) Fluoranthene            | 19.12 | 202  | 89948m   | 2.307  | ng/ul  |          |
| 17) Pyrene                  | 19.48 | 202  | 162073   | 4.225  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.23 | 228  | 51785m   | 1.540  | ng/ul  |          |
| 19) Chrysene                | 21.29 | 228  | 55314    | 1.455  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.81 | 252  | 45526m   | 1.283  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.85 | 252  | 13638m   | 0.372  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.37 | 252  | 44095    | 1.322  | ng/ul  | 95       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.69 | 276  | 19699    | 0.567  | ng/ul# | 79       |
| 25) Dibenzo(a,h)anthracene  | 25.69 | 278  | 5244     | 0.191  | ng/ul  | 96       |
| 26) Benzo(g,h,i)perylene    | 26.36 | 276  | 28657    | 0.962  | ng/ul  | 95       |

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

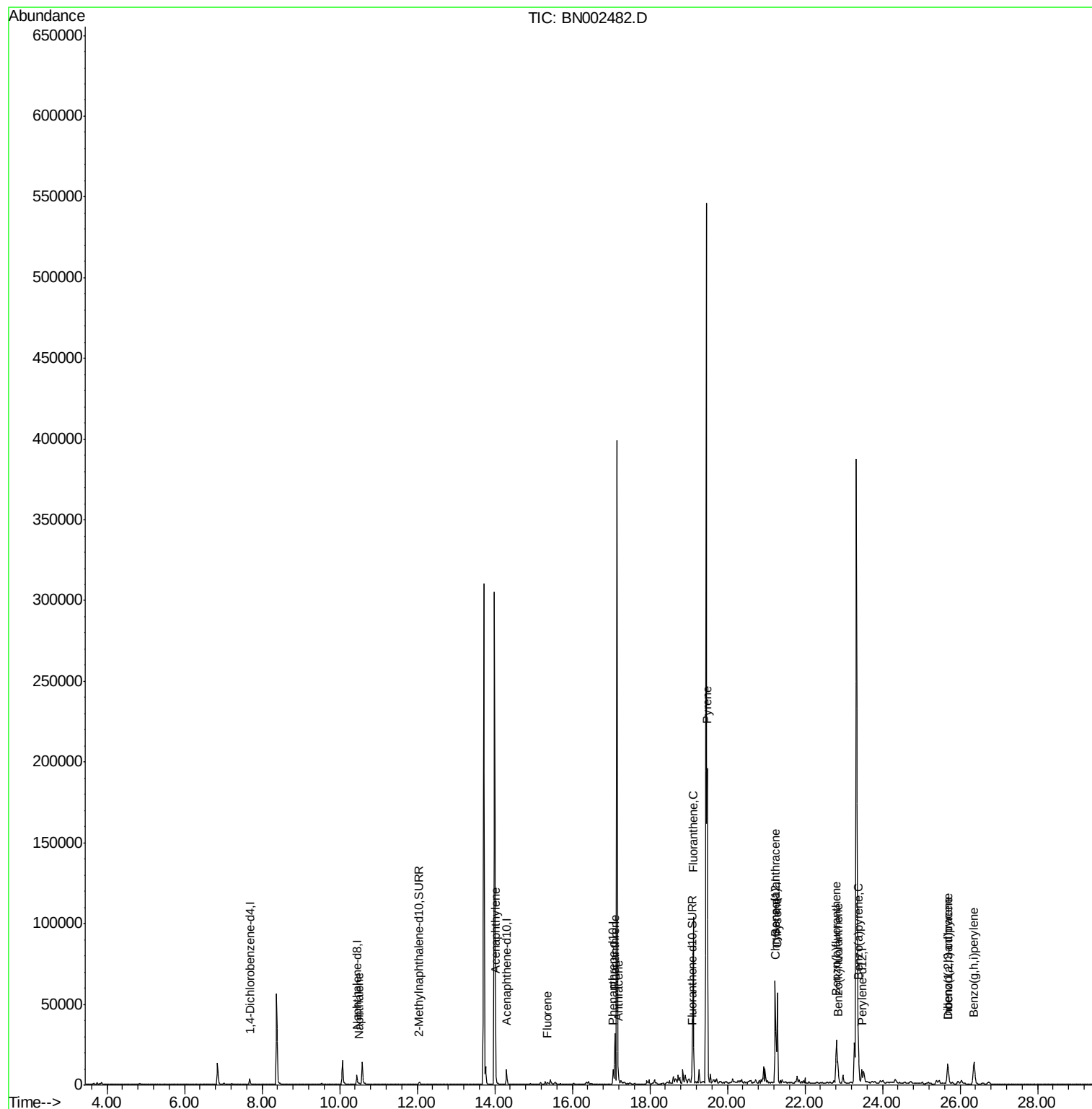
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082318\  
Data File : BN002482.D  
Acq On : 24 Aug 2018 00:50  
Operator : JU/SJ  
Sample : J4421-09  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

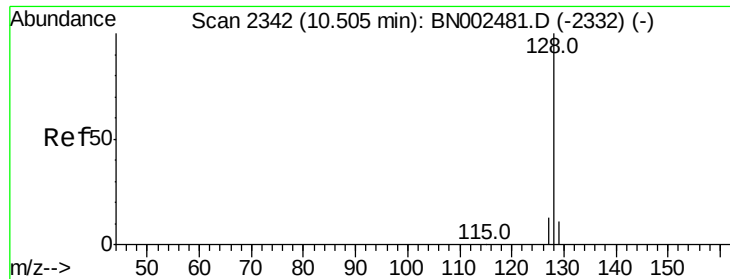
Instrument :  
BNA\_N  
ClientSampleId :  
C0AA7

Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:11:53 PM

Quant Time: Aug 24 04:24:42 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: 0.026 ng/ul

RT: 10.49 min Scan# 2340

Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

Instrument :

BNA\_N

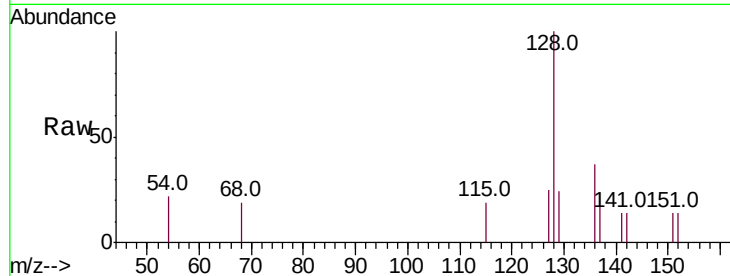
ClientSampled :

C0AA7

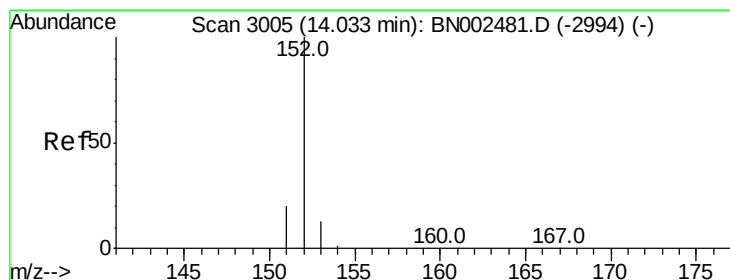
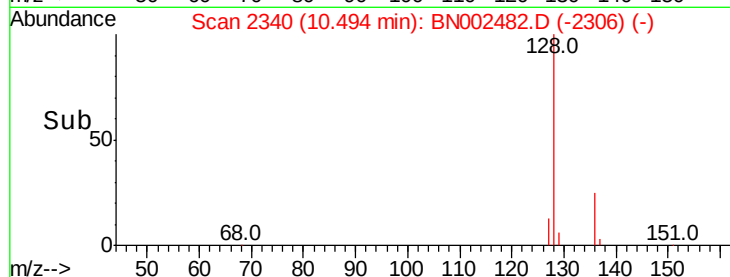
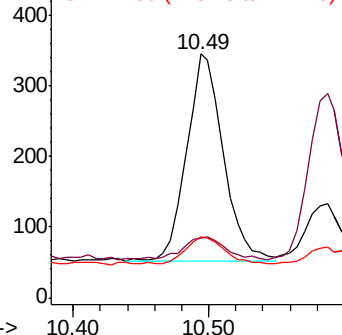
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 552   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 24.3  | 8.0   | 12.0# |
| 127       | 25.2  | 12.0  | 18.0# |

Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:11:53 PM



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#7

Acenaphthylene

Concen: 0.405 ng/ul

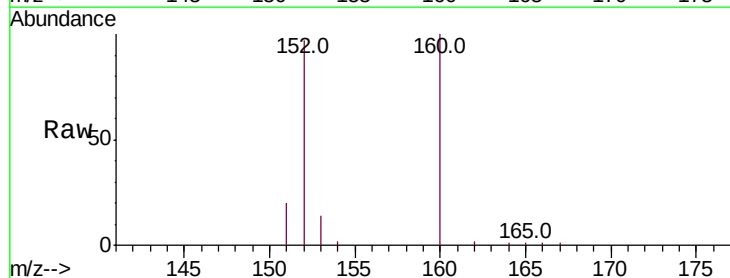
RT: 14.02 min Scan# 3003

Delta R.T. -0.01 min

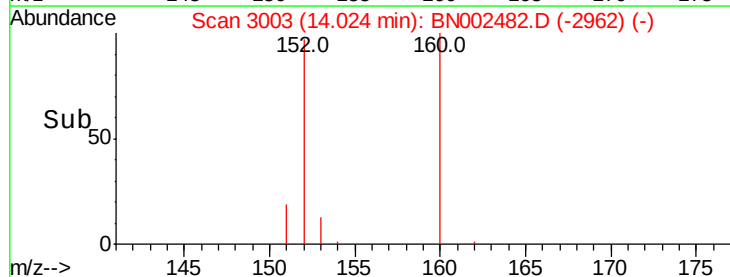
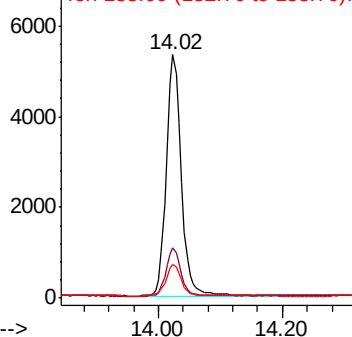
Lab File: BN002482.D

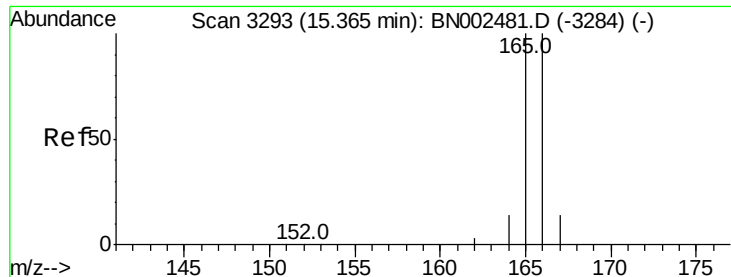
Acq: 24 Aug 2018 00:50

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 8948 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.5  | 17.1  | 25.7 |
| 153       | 14.0  | 12.8  | 19.2 |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#9

Fluorene

Concen: 0.052 ng/ul

RT: 15.36 min Scan# 3292

Delta R.T. -0.00 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

Instrument :

BNA\_N

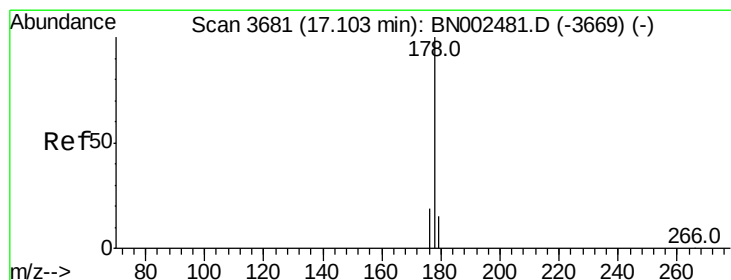
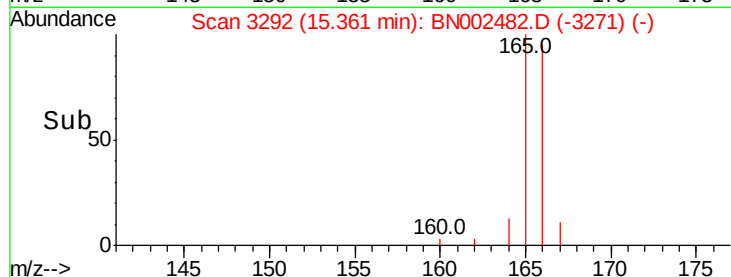
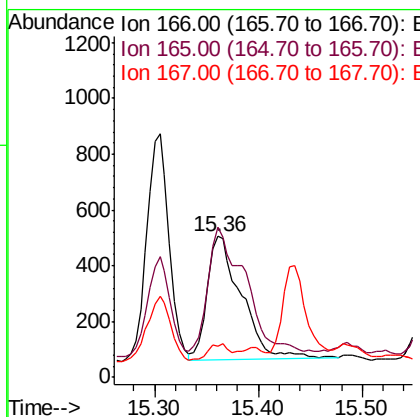
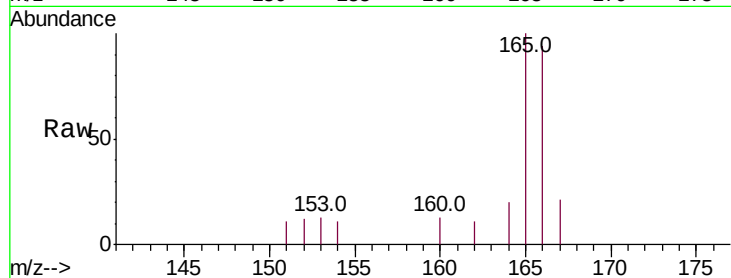
ClientSampled :

C0AA7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 1001  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 106.7 | 73.4  | 110.2 |
| 167       | 22.0  | 14.6  | 22.0# |

Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:11:53 PM



#12

Phenanthrene

Concen: 0.977 ng/ul m

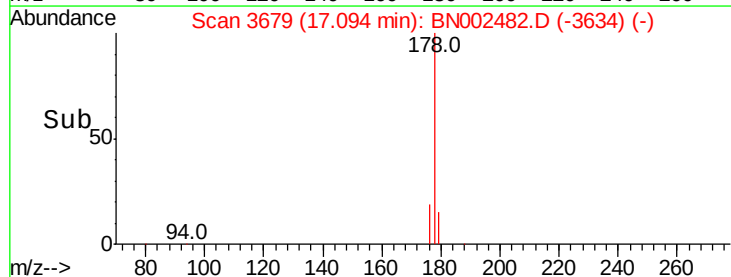
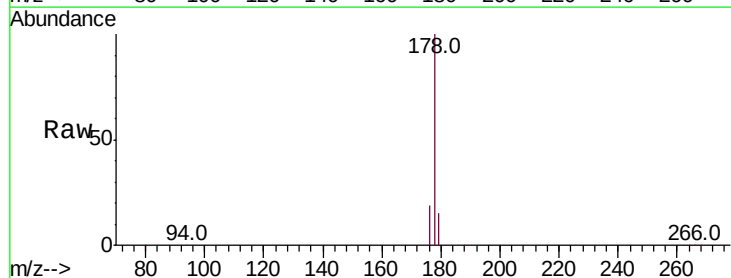
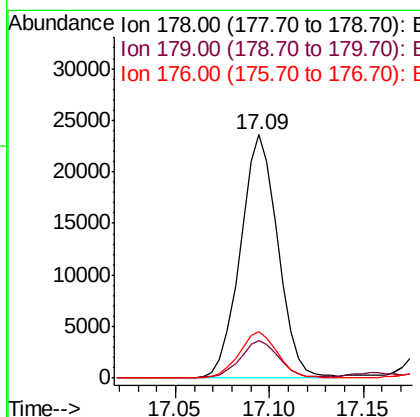
RT: 17.09 min Scan# 3679

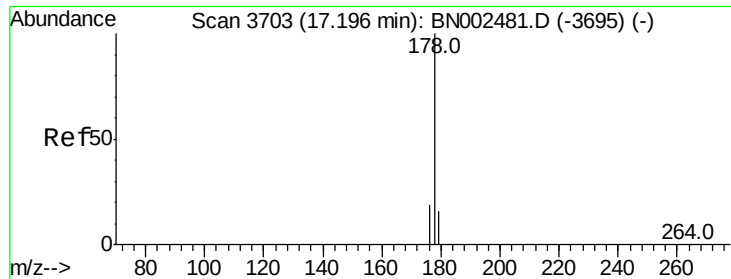
Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 32397 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.4  | 18.4  | 27.6# |
| 176       | 19.0  | 13.6  | 20.4  |





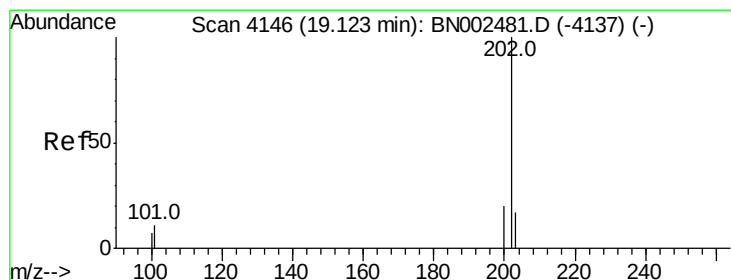
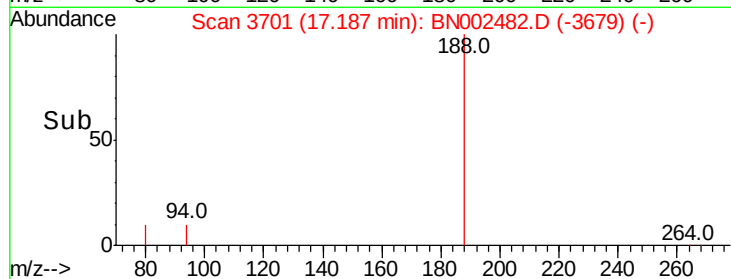
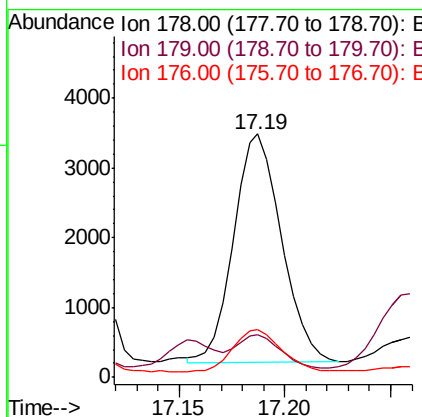
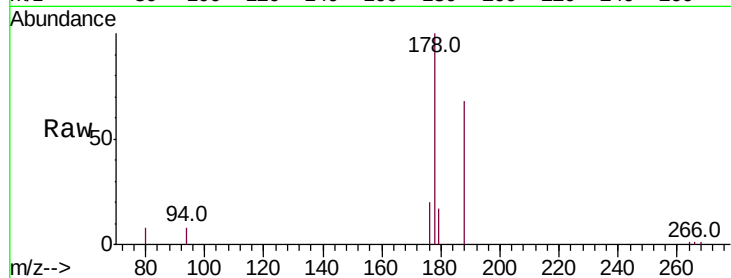
#13  
 Anthracene  
 Concen: 0.185 ng/ul m  
 RT: 17.19 min Scan# 3701  
 Delta R.T. -0.01 min  
 Lab File: BN002482.D  
 Acq: 24 Aug 2018 00:50

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AA7

Tot Ion:178 Resp: 5271  
 Ion Ratio Lower Upper  
 178 100  
 179 17.4 18.1 27.1#  
 176 19.8 14.7 22.1

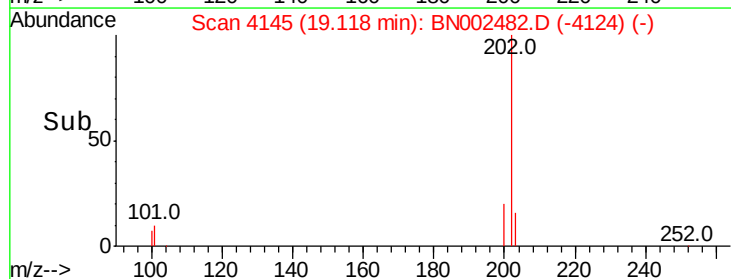
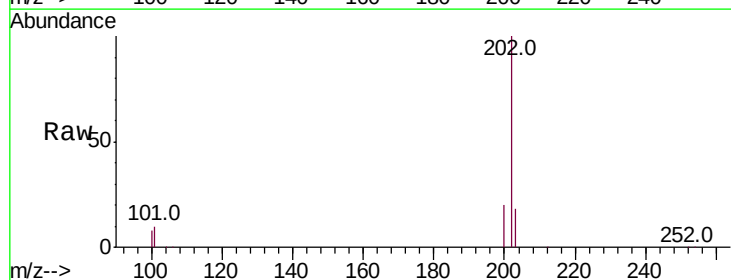
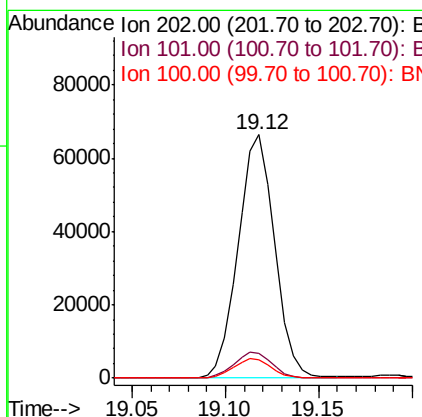
Manual Integrations  
 APPROVED

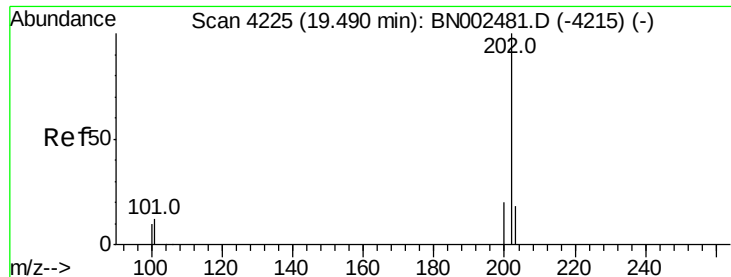
Sohil  
 8/24/2018 5:11:53 PM



#15  
 Fluoranthene  
 Concen: 2.307 ng/ul m  
 RT: 19.12 min Scan# 4145  
 Delta R.T. -0.00 min  
 Lab File: BN002482.D  
 Acq: 24 Aug 2018 00:50

Tgt Ion:202 Resp: 89948  
 Ion Ratio Lower Upper  
 202 100  
 101 10.3 0.0 30.0  
 100 7.5 0.0 30.0





#17

Pvrene

Concen: 4.225 ng/ul

RT: 19.48 min Scan# 4223

Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

Instrument :

BNA\_N

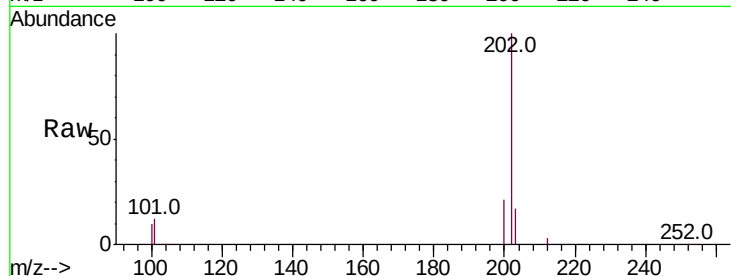
ClientSampleId :

C0AA7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 162073 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.1  | 12.0  | 18.0   |
| 100       | 9.8   | 8.0   | 12.0   |

Manual Integrations  
APPROVED

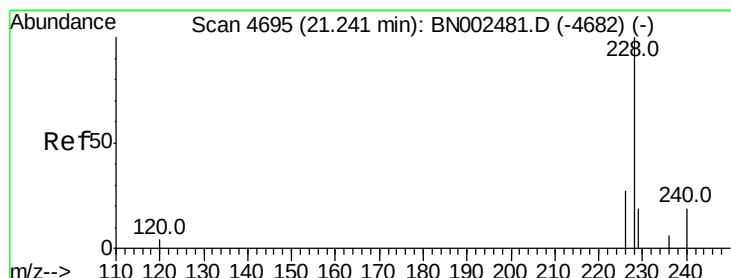
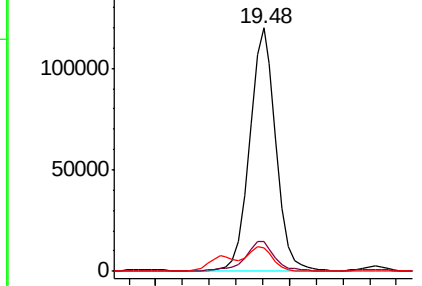
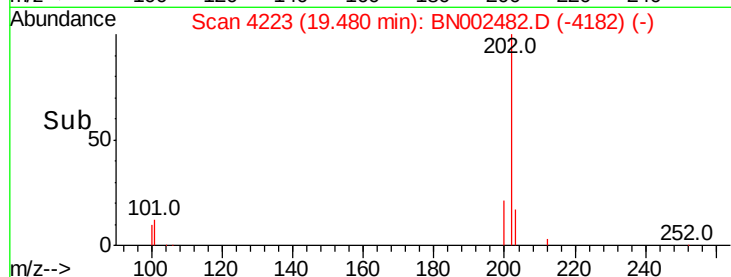
Sohil  
8/24/2018 5:11:53 PM



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



#18

Benzo(a)anthracene

Concen: 1.540 ng/ul m

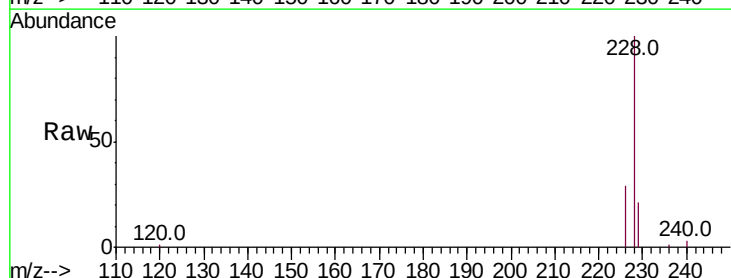
RT: 21.23 min Scan# 4693

Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

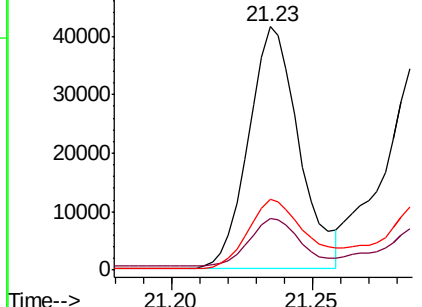
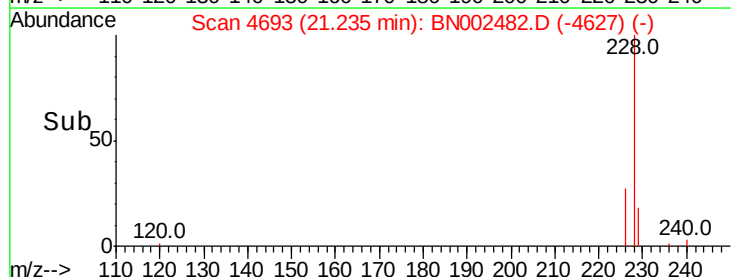
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 51785 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.4  | 22.8  | 34.2# |
| 226       | 28.9  | 17.0  | 25.6# |

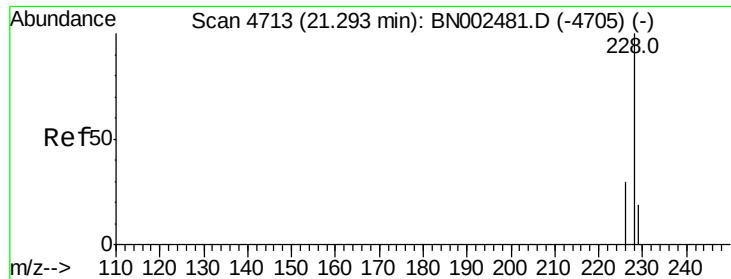


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





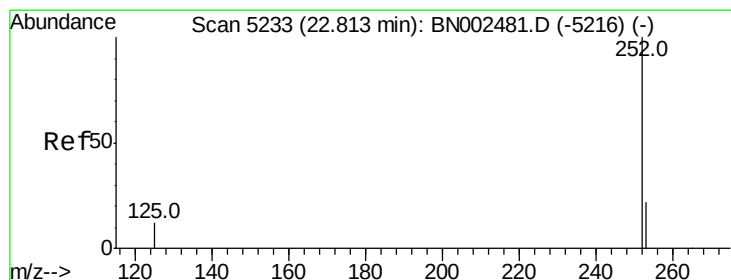
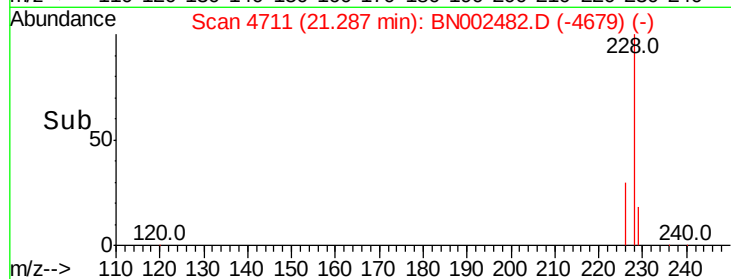
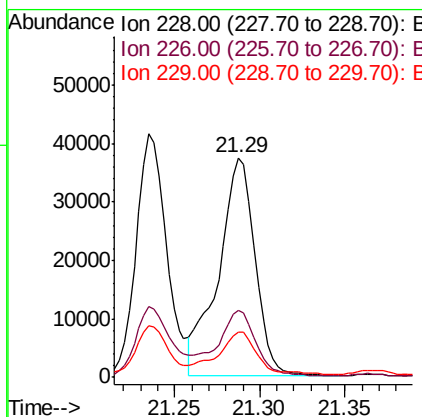
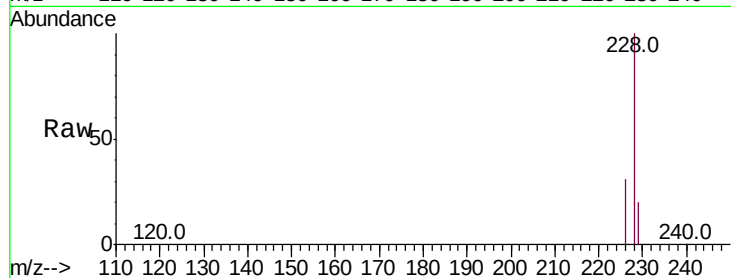
#19  
Chrysene  
Concen: 1.455 ng/ul  
RT: 21.29 min Scan# 4711  
Delta R.T. -0.01 min  
Lab File: BN002482.D  
Acq: 24 Aug 2018 00:50

Instrument :  
BNA\_N  
ClientSampled :  
C0AA7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 23.4  | 35.0  |
| 229     | 20.4  | 17.7  | 26.5  |

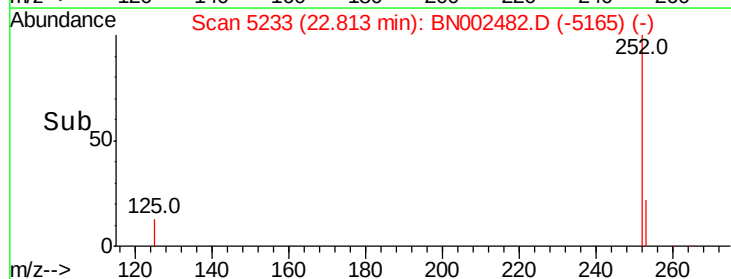
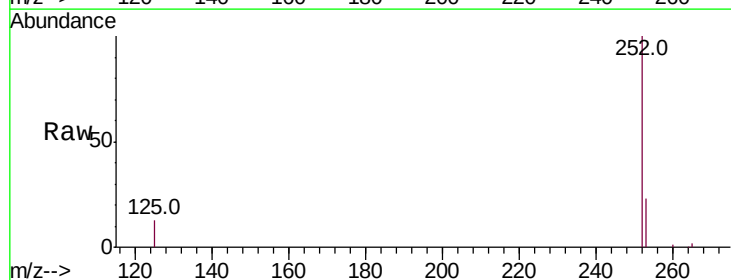
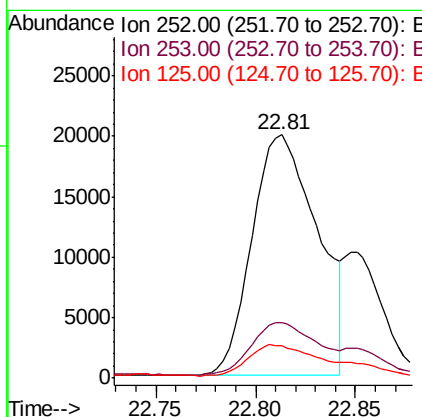
Manual Integrations  
APPROVED

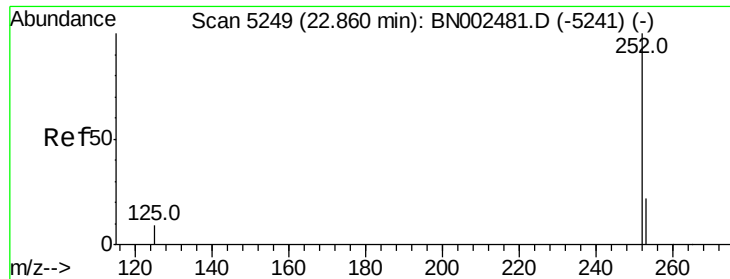
Sohil  
8/24/2018 5:11:53 PM



#21  
Benzo(b)fluoranthene  
Concen: 1.283 ng/ul m  
RT: 22.81 min Scan# 5233  
Delta R.T. -0.00 min  
Lab File: BN002482.D  
Acq: 24 Aug 2018 00:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 0.0   | 64.2  |
| 125     | 13.5  | 0.0   | 35.0  |





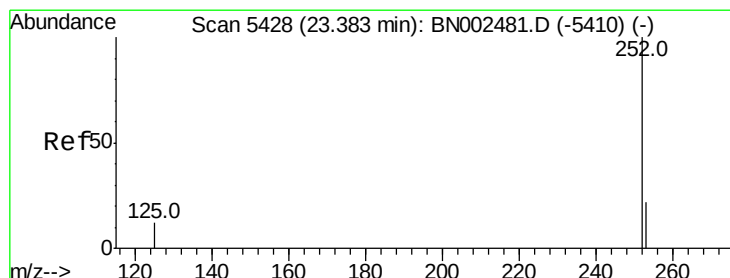
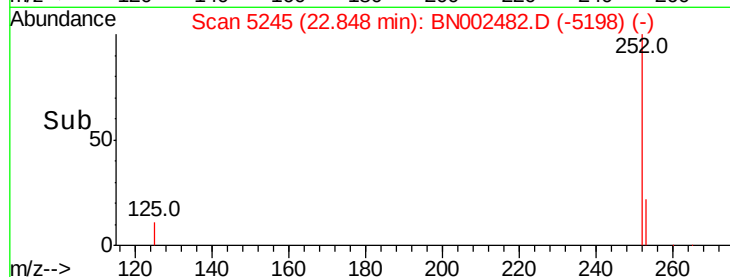
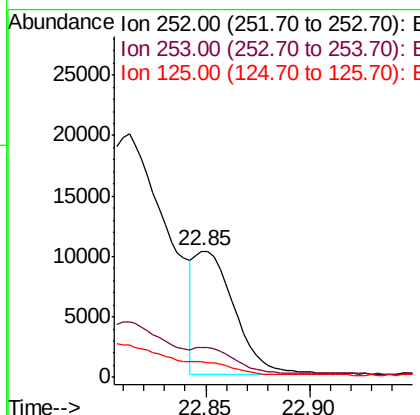
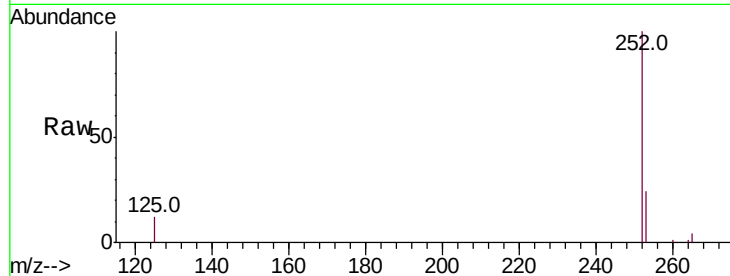
#22  
Benzo(k)fluoranthene  
Concen: 0.372 ng/ul m  
RT: 22.85 min Scan# 5245  
Delta R.T. -0.01 min  
Lab File: BN002482.D  
Acq: 24 Aug 2018 00:50

Instrument :  
BNA\_N  
ClientSampleId :  
C0AA7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 24.5  | 36.7# |
| 125     | 12.2  | 13.7  | 20.5# |

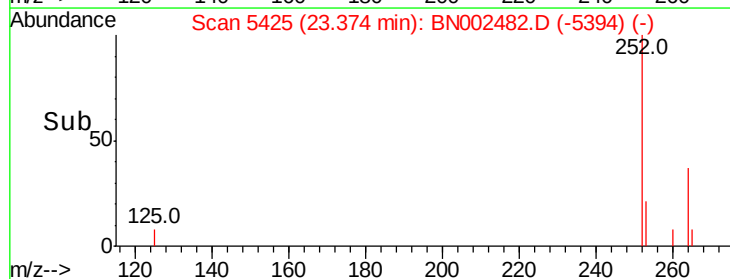
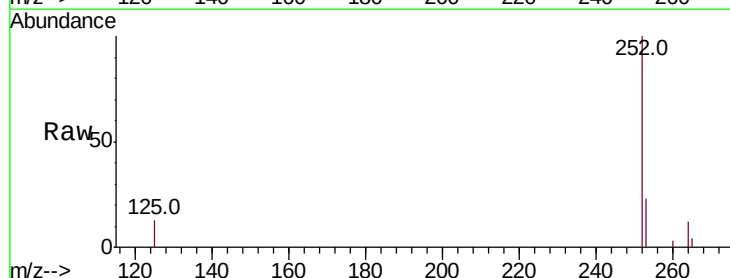
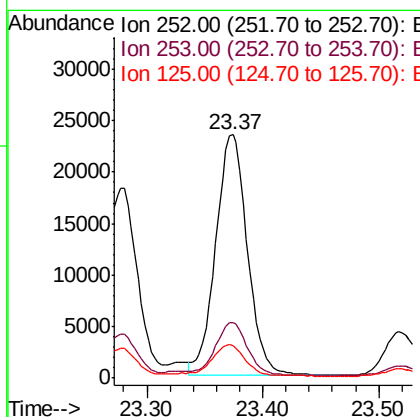
Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:11:53 PM

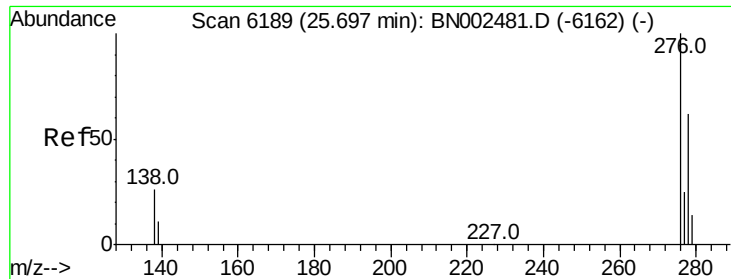


#23  
Benzo(a)pyrene  
Concen: 1.322 ng/ul  
RT: 23.37 min Scan# 5425  
Delta R.T. -0.01 min  
Lab File: BN002482.D  
Acq: 24 Aug 2018 00:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 16.0  | 24.0  |
| 125     | 13.1  | 12.0  | 18.0  |







#24

Indeno(1,2,3-cd)pyrene

Concen: 0.567 ng/ul

RT: 25.69 min Scan# 6186

Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

Instrument :

BNA\_N

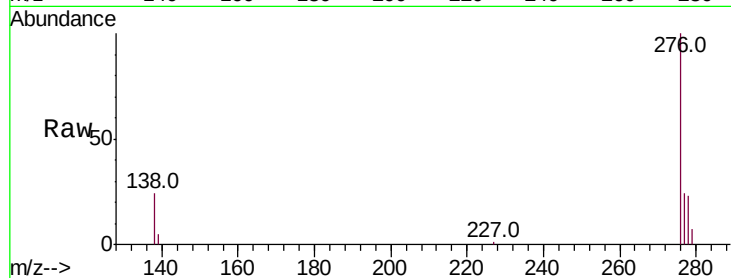
ClientSampleId :

C0AA7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 19699 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 22.4  | 28.0  | 42.0# |
| 227       | 0.0   | 0.8   | 1.2#  |

Manual Integrations  
APPROVED

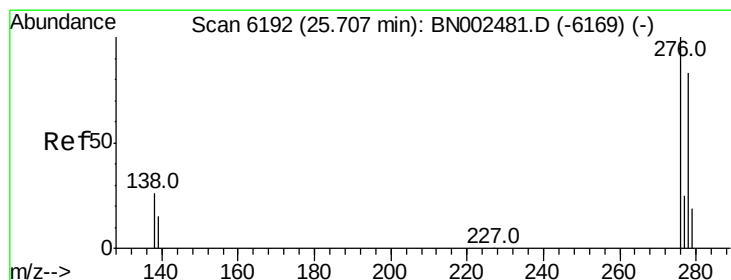
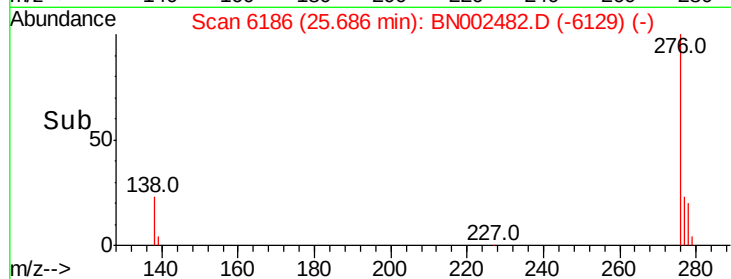
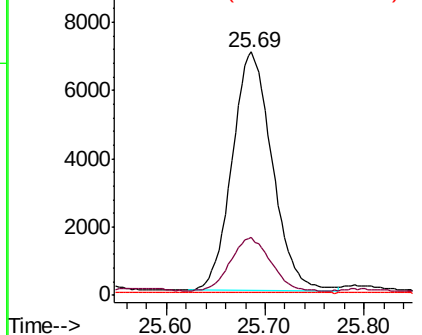
Sohil  
8/24/2018 5:11:53 PM



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: 0.191 ng/ul

RT: 25.69 min Scan# 6186

Delta R.T. -0.02 min

Lab File: BN002482.D

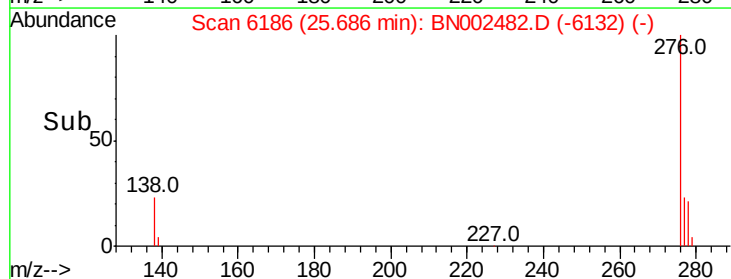
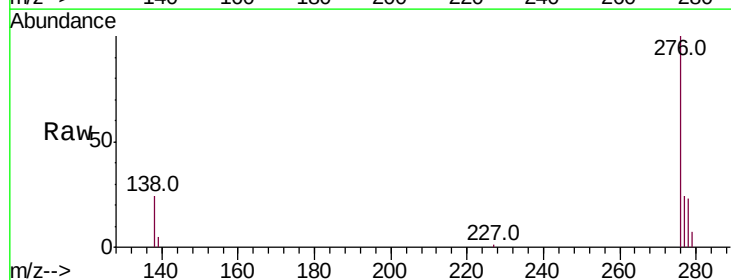
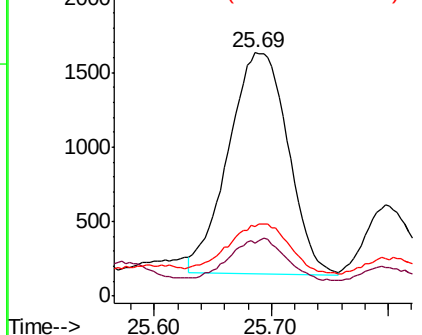
Acq: 24 Aug 2018 00:50

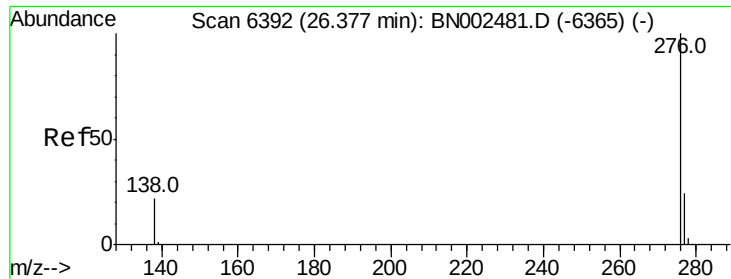
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 5244 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.5  | 17.4  | 26.0 |
| 279       | 28.6  | 25.9  | 38.9 |

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: 0.962 ng/ul

RT: 26.36 min Scan# 6388

Delta R.T. -0.01 min

Lab File: BN002482.D

Acq: 24 Aug 2018 00:50

Instrument :

BNA\_N

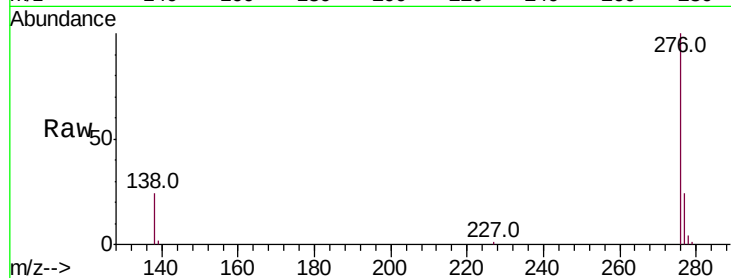
ClientSampleId :

C0AA7

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 28657 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.6  | 21.8  | 32.8  |
| 277       | 23.9  | 20.5  | 30.7  |

Manual Integrations  
APPROVED

Sohil  
8/24/2018 5:11:53 PM



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

