

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN013044.D  
 Acq On : 10 Dec 2020 13:17  
 Operator : CG/JU  
 Sample : L4941-12DL 5X  
 Misc :  
 ALS Vial : 114 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleID :  
 C0BJ1DL

Manual Integrations  
 APPROVED

mohammad

12/11/2020 1:19:16 PM

Quant Time: Dec 10 13:51:08 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 10 10:29:27 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 988      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.14 | 136  | 3911     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.04 | 164  | 2167     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.80 | 188  | 4402     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.03 | 240  | 3231     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.13 | 264  | 2980     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.76 | 152  | 182      | 0.03   | ng/ul  | 0.02     |
| 14) Fluoranthene-d10        | 18.85 | 212  | 386      | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.76 | 152  | 243      | 0.024  | ng/ul# | 64       |
| 12) Phenanthrene            | 16.84 | 178  | 4224     | 0.286  | ng/ul  | 99       |
| 13) Anthracene              | 16.94 | 178  | 458      | 0.036  | ng/ul# | 77       |
| 15) Fluoranthene            | 18.88 | 202  | 10635    | 0.606  | ng/ul  | 97       |
| 17) Pyrene                  | 19.24 | 202  | 9179     | 0.601  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.01 | 228  | 3692     | 0.276  | ng/ul  | 97       |
| 19) Chrysene                | 21.07 | 228  | 5538     | 0.375  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.51 | 252  | 6695m    | 0.486  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.55 | 252  | 2206m    | 0.145  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.04 | 252  | 3779     | 0.295  | ng/ul# | 95       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.18 | 276  | 2601     | 0.155  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 25.18 | 278  | 713      | 0.054  | ng/ul# | 48       |
| 26) Benzo(g,h,i)perylene    | 25.81 | 276  | 2237     | 0.147  | ng/ul# | 90       |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN013044.D  
Acq On : 10 Dec 2020 13:17  
Operator : CG/JU  
Sample : L4941-12DL 5X  
Misc :  
ALS Vial : 114 Sample Multiplier: 1

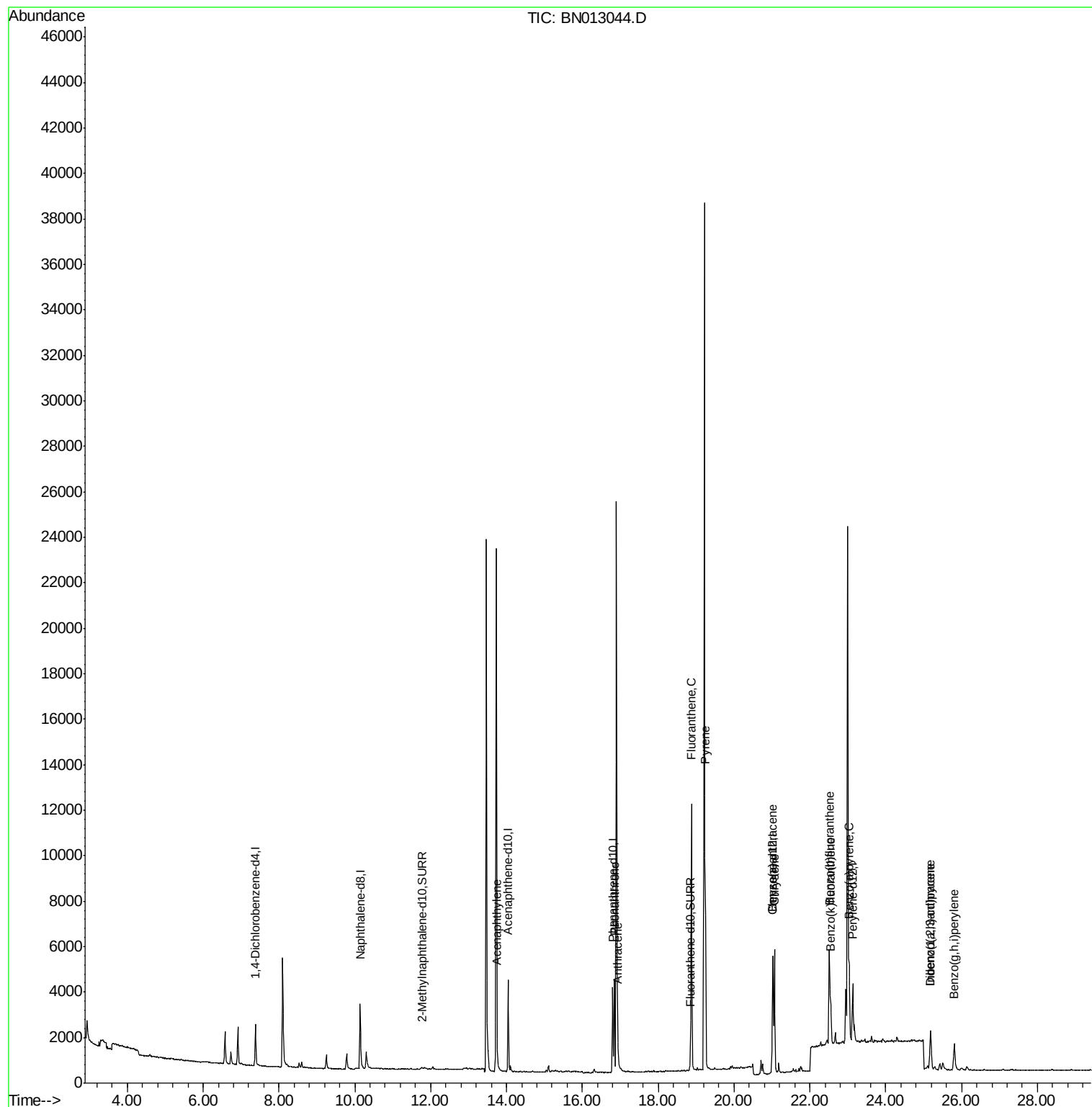
Instrument :  
BNA\_N  
ClientSampleId :  
C0BJ1DL

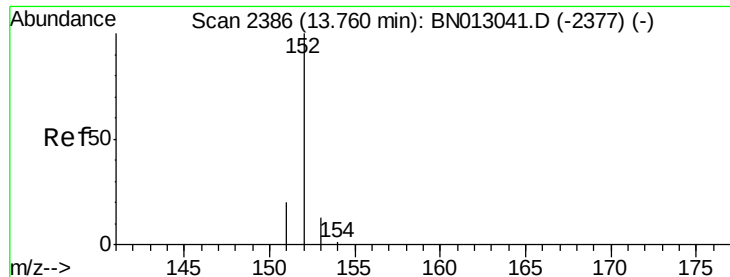
Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 PM

Quant Time: Dec 10 13:51:08 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 10 10:29:27 2020  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.024 ng/ul

RT: 13.76 min Scan# 2386

Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

Instrument :

BNA\_N

ClientSampled :

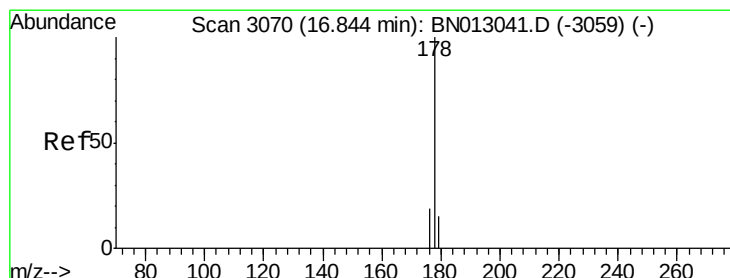
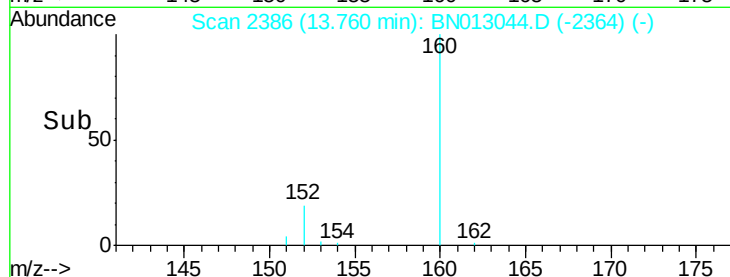
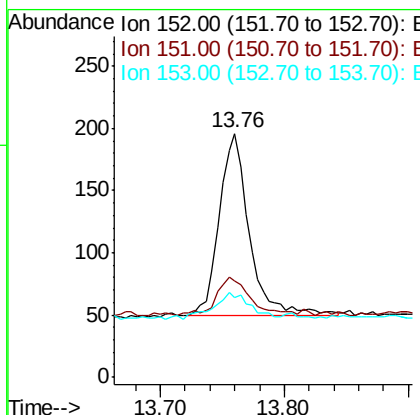
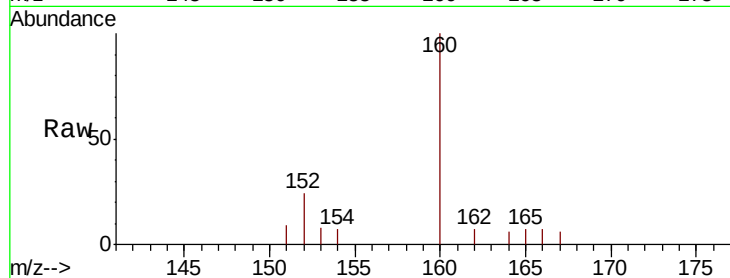
C0BJ1DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 243   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 39.3  | 18.2  | 27.4# |
| 153       | 32.7  | 13.1  | 19.7# |

Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 PM



#12

Phenanthrene

Concen: 0.286 ng/ul

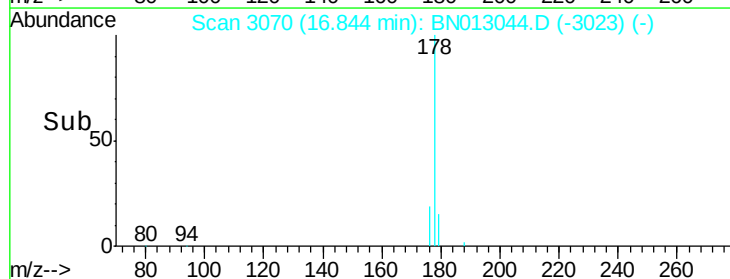
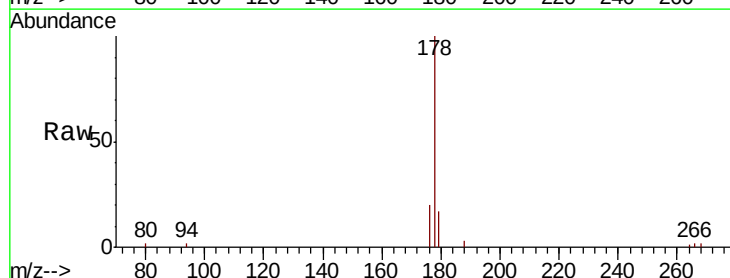
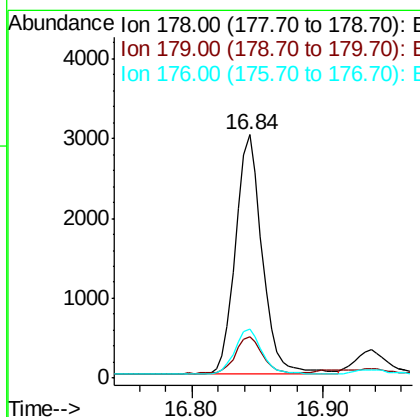
RT: 16.84 min Scan# 3070

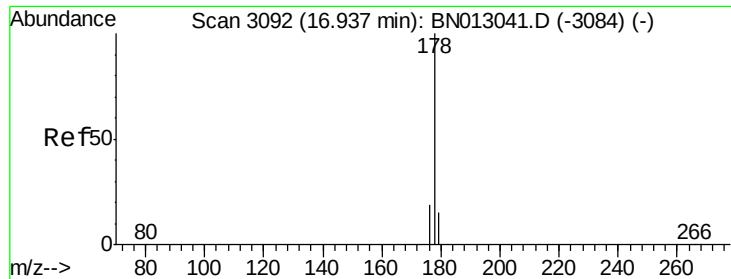
Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4224 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.9  | 13.6  | 20.4 |
| 176       | 20.0  | 16.4  | 24.6 |





#13  
 Anthracene  
 Concen: 0.036 ng/ul  
 RT: 16.94 min Scan# 3092  
 Delta R.T. -0.00 min  
 Lab File: BN013044.D  
 Acq: 10 Dec 2020 13:17

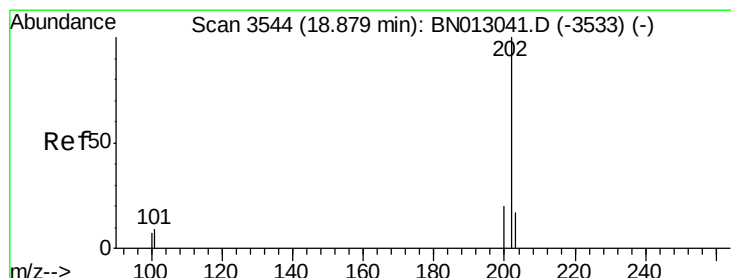
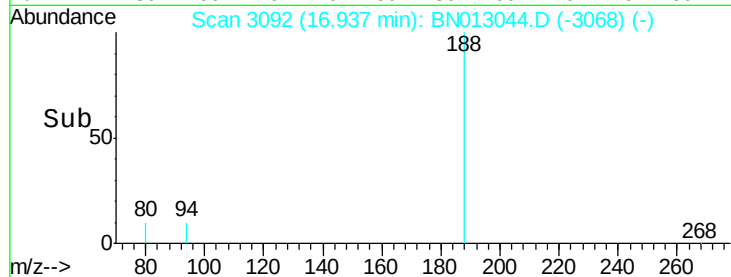
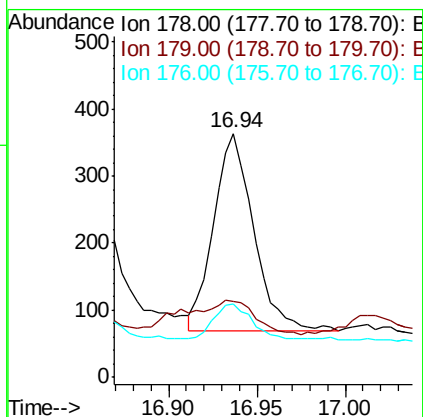
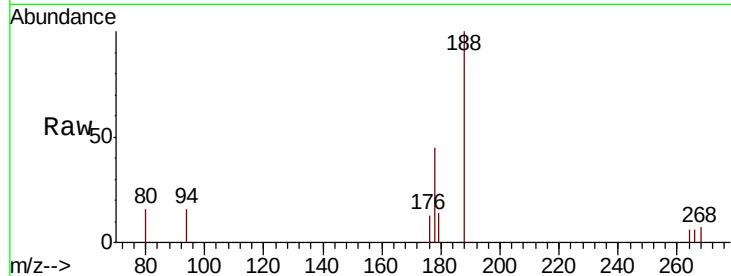
Instrument :  
 BNA\_N  
 ClientSampleID :  
 C0BJ1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 31.1  | 14.6  | 21.8# |
| 176     | 30.0  | 17.1  | 25.7# |

Manual Integrations  
 APPROVED

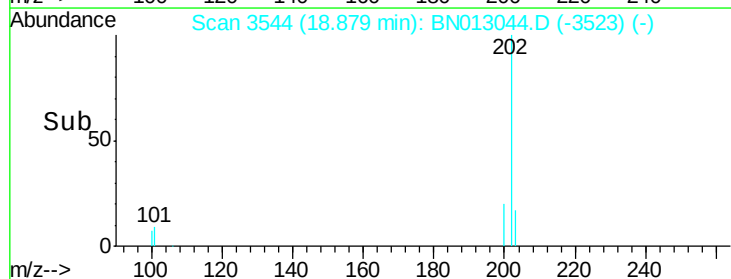
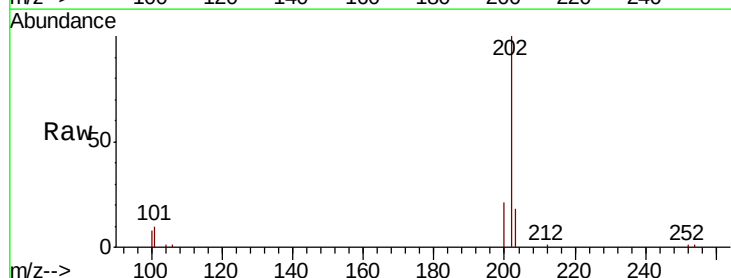
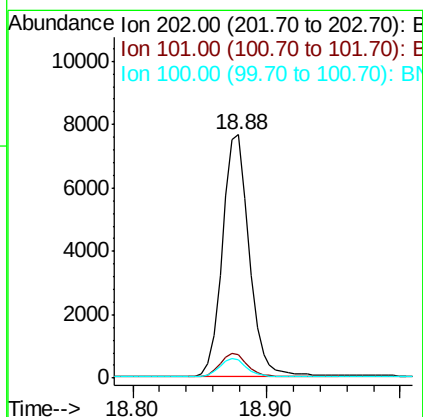
mohammad

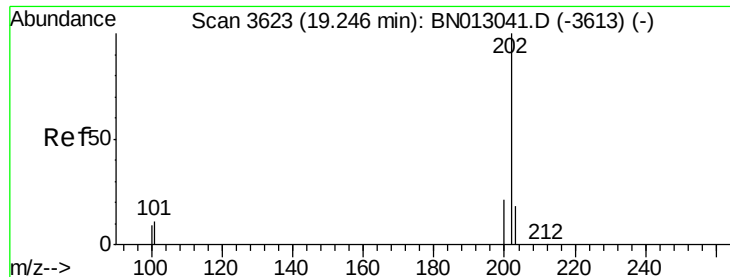
12/11/2020 1:19:16 PM



#15  
 Fluoranthene  
 Concen: 0.606 ng/ul  
 RT: 18.88 min Scan# 3544  
 Delta R.T. -0.00 min  
 Lab File: BN013044.D  
 Acq: 10 Dec 2020 13:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.5   | 0.0   | 30.6  |
| 100     | 7.5   | 0.0   | 28.7  |





#17

Pvrene

Concen: 0.601 ng/ul

RT: 19.24 min Scan# 3622

Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

Instrument :

BNA\_N

ClientSampled :

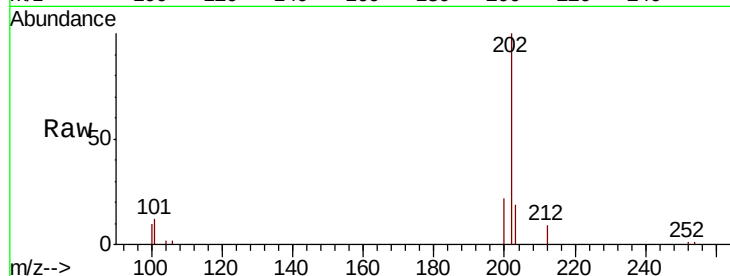
C0BJ1DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 9179 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.7  | 9.1   | 13.7 |
| 100       | 9.9   | 7.5   | 11.3 |

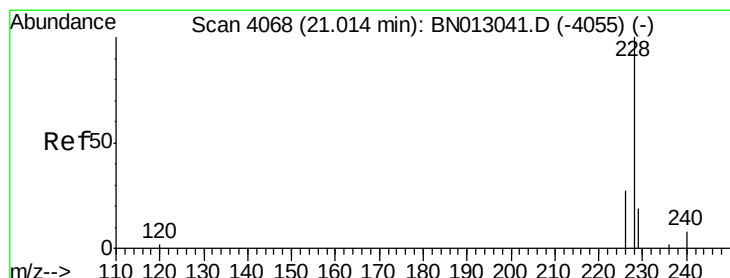
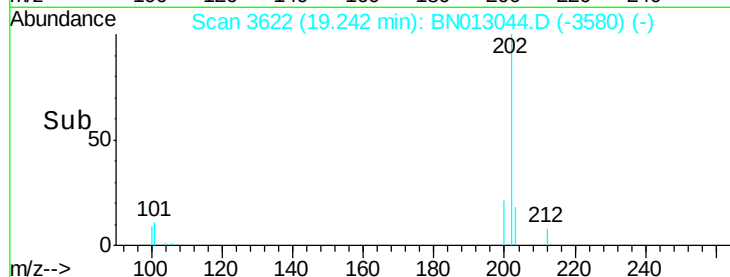
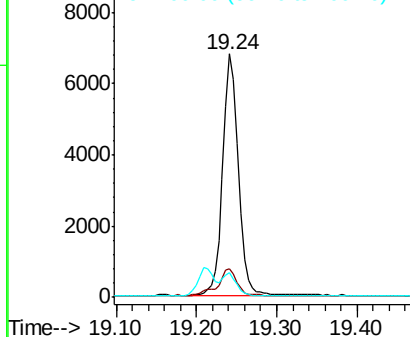
Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 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): E



#18

Benzo(a)anthracene

Concen: 0.276 ng/ul

RT: 21.01 min Scan# 4068

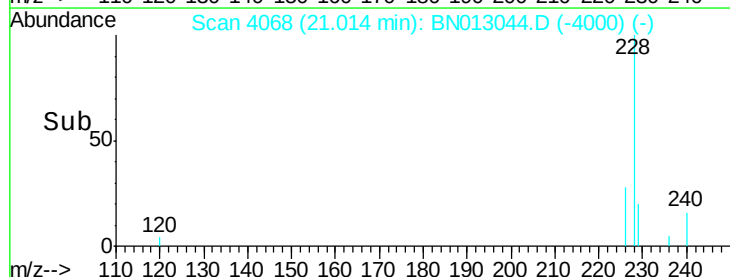
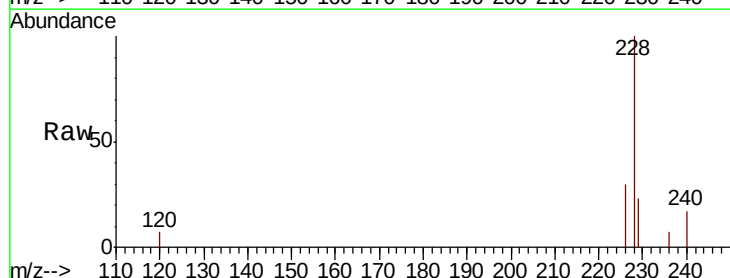
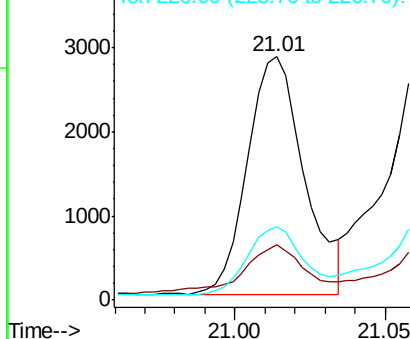
Delta R.T. -0.00 min

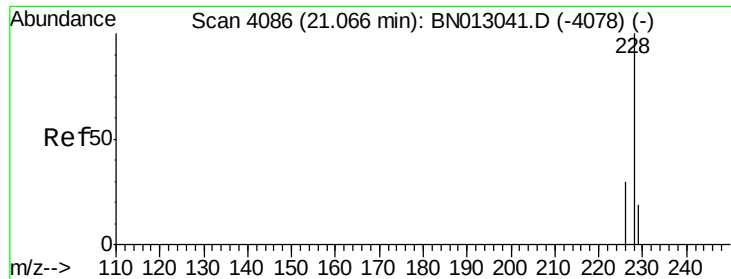
Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 3692 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 22.5  | 16.3  | 24.5 |
| 226       | 29.9  | 23.4  | 35.2 |

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: 0.375 ng/ul

RT: 21.07 min Scan# 4086

Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

Instrument :

BNA\_N

ClientSampled :

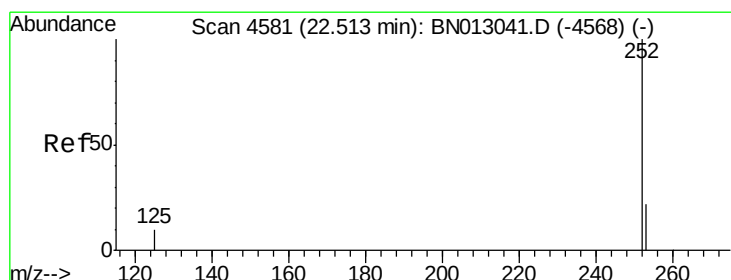
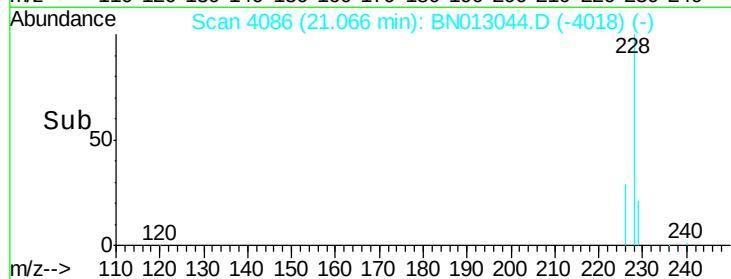
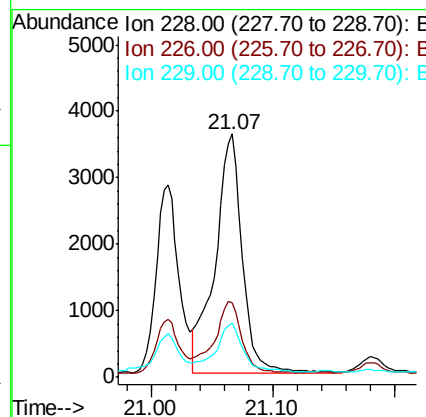
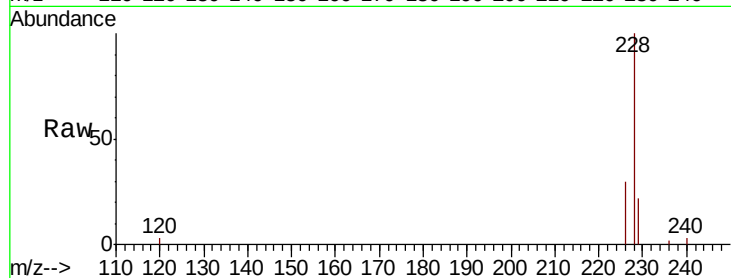
C0BJ1DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 5538  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.5  | 25.0  | 37.6  |
| 229      | 22.0  | 16.4  | 24.6  |

Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 PM



#21

Benzo(b)fluoranthene

Concen: 0.486 ng/ul m

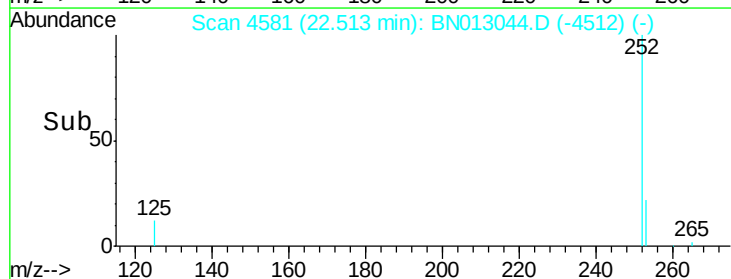
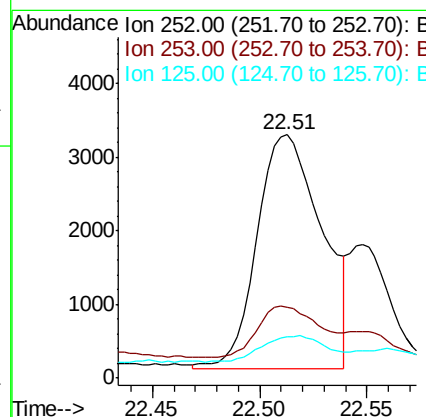
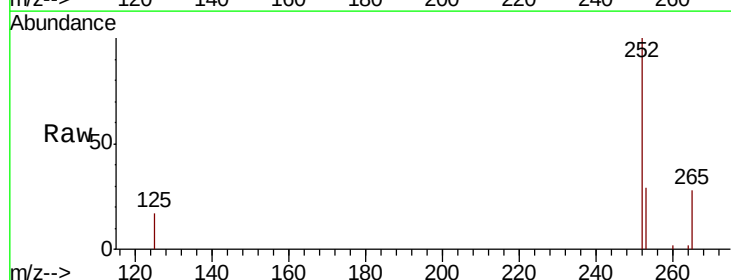
RT: 22.51 min Scan# 4581

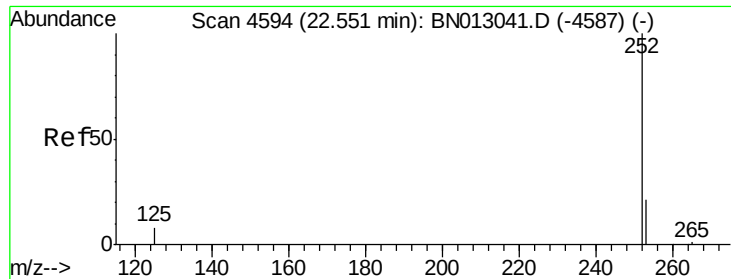
Delta R.T. 0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 6695  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 29.3  | 0.0   | 59.6  |
| 125      | 16.9  | 0.0   | 26.0  |





#22

Benzo(k)fluoranthene

Concen: 0.145 ng/ul m

RT: 22.55 min Scan# 4593

Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

Instrument :

BNA\_N

ClientSampleId :

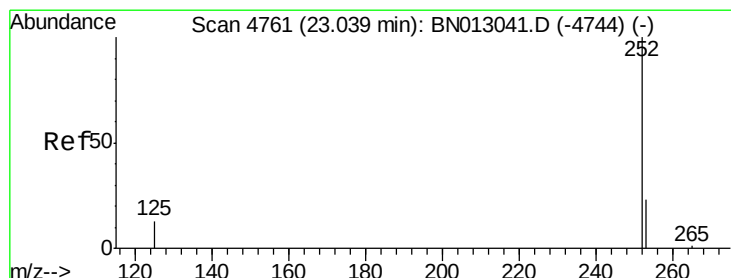
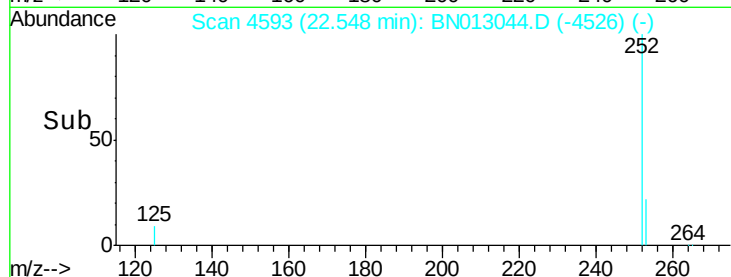
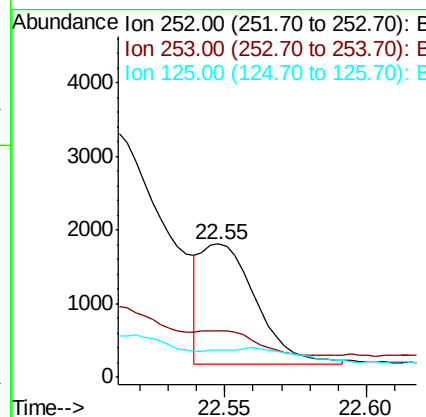
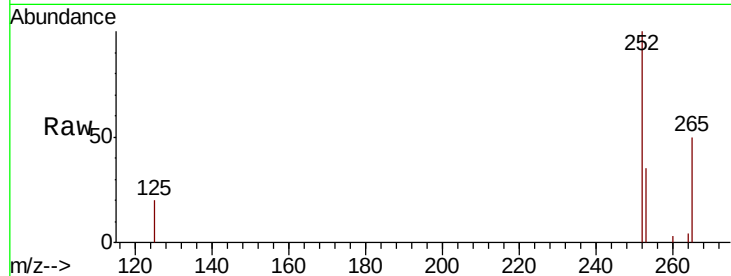
C0BJ1DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 2206  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.7  | 23.4  | 35.2  |
| 125       | 20.1  | 11.1  | 16.7# |

Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 PM



#23

Benzo(a)pyrene

Concen: 0.295 ng/ul

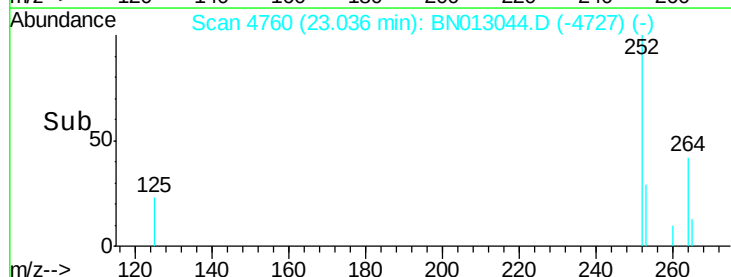
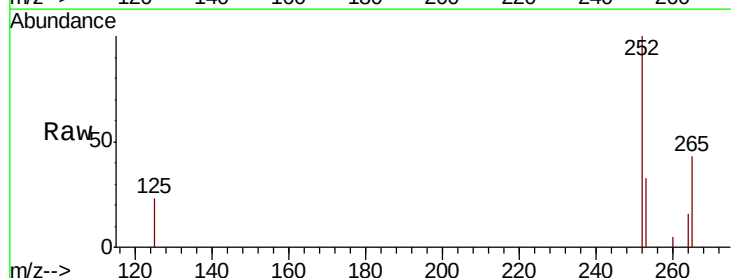
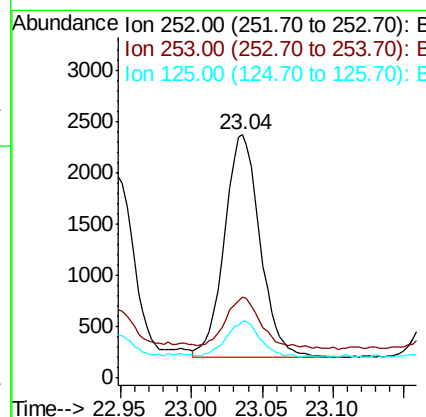
RT: 23.04 min Scan# 4760

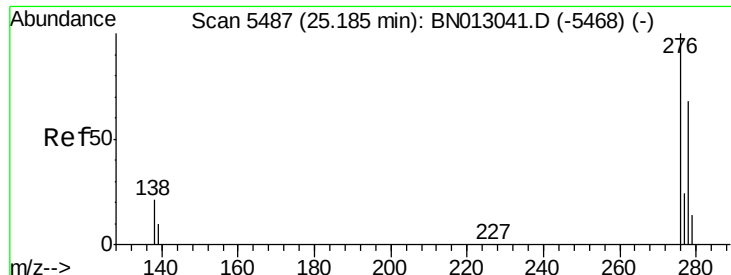
Delta R.T. -0.00 min

Lab File: BN013044.D

Acq: 10 Dec 2020 13:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 3779  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 33.5  | 26.5  | 39.7  |
| 125       | 23.3  | 14.2  | 21.2# |





#24

Indeno(1,2,3-cd)pyrene  
Concen: 0.155 ng/ul  
RT: 25.18 min Scan# 5486  
Delta R.T. -0.00 min  
Lab File: BN013044.D  
Acq: 10 Dec 2020 13:17

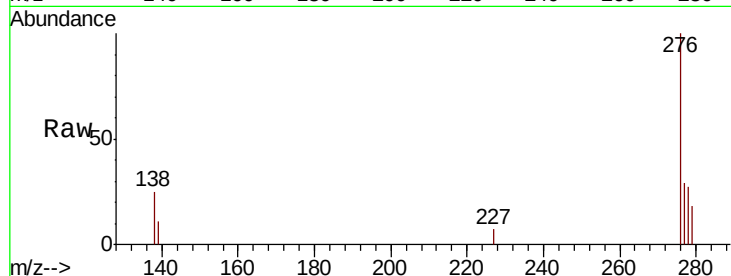
Instrument :  
BNA\_N  
ClientSampled :  
C0BJ1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.7  | 16.2  | 24.2  |
| 227     | 0.0   | 0.0   | 0.0   |

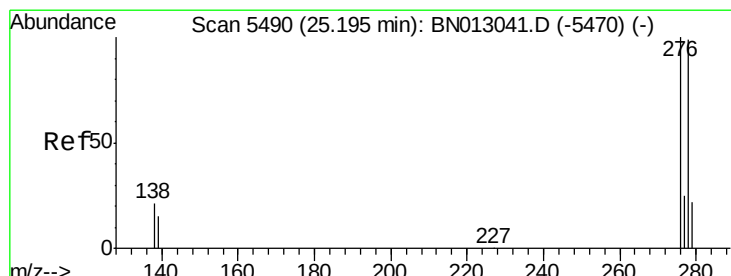
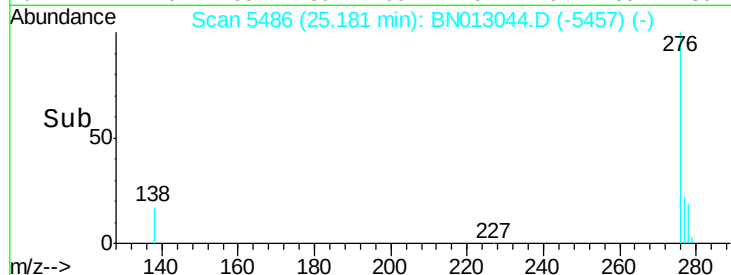
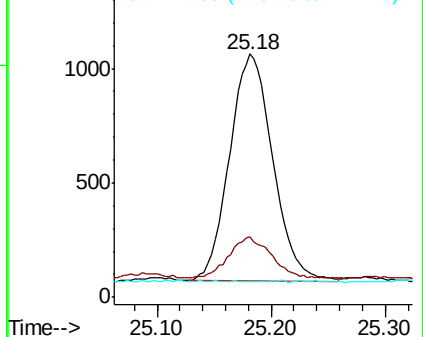
Manual Integrations  
APPROVED

mohammad

12/11/2020 1:19:16 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

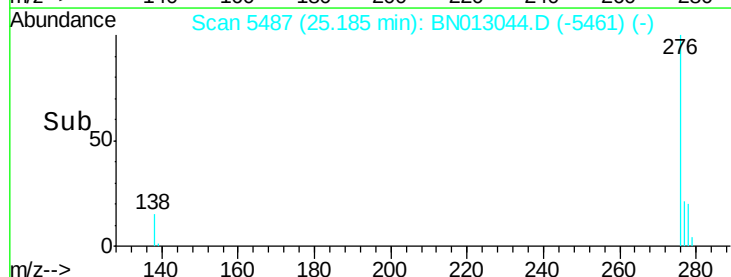
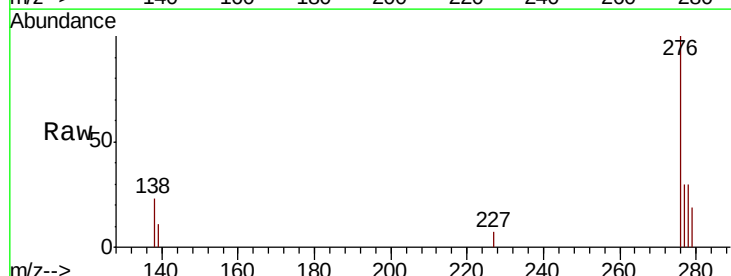
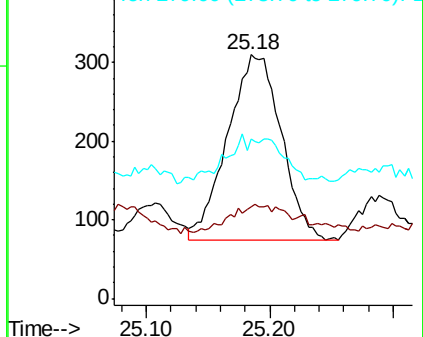


#25

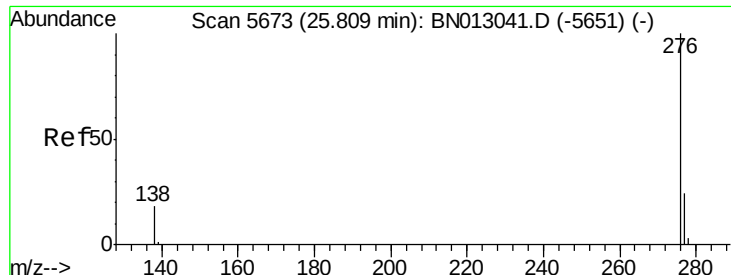
Dibenzo(a,h)anthracene  
Concen: 0.054 ng/ul  
RT: 25.18 min Scan# 5487  
Delta R.T. -0.01 min  
Lab File: BN013044.D  
Acq: 10 Dec 2020 13:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 37.4  | 14.5  | 21.7# |
| 279     | 65.2  | 26.3  | 39.5# |

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: 0.147 ng/ul  
 RT: 25.81 min Scan# 5673  
 Delta R.T. -0.00 min  
 Lab File: BN013044.D  
 Acq: 10 Dec 2020 13:17

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BJ1DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 2237  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 26.7  | 16.3  | 24.5# |
| 277       | 30.7  | 21.8  | 32.6  |

Manual Integrations  
 APPROVED

mohammad

12/11/2020 1:19:16 PM

