

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092223\  
 Data File : BN027837.D  
 Acq On : 22 Sep 2023 22:45  
 Operator : MA/JU  
 Sample : 04387-11  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AB8

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/25/2023  
 Supervised By :mohammad ahmed 09/25/2023

Quant Time: Sep 23 03:50:03 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN091523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 22 03:58:00 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.004  | 152  | 5163     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.823 | 136  | 17815    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.643 | 164  | 10810    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.392 | 188  | 24882    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.571 | 240  | 20487    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.071 | 264  | 17987    | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.380  | 96   | 15423    | 2.372 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.401 | 152  | 8504     | 0.315 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.413 | 212  | 21915    | 0.350 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.872 | 128  | 3228     | 0.063 | ng/ul# | 89       |
| 7) 2-Methylnaphthalene      | 12.478 | 142  | 3013     | 0.093 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.693 | 142  | 2522     | 0.076 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.370 | 152  | 2525     | 0.053 | ng/ul# | 84       |
| 15) Phenanthrene            | 17.434 | 178  | 22167    | 0.284 | ng/ul  | 98       |
| 16) Anthracene              | 17.527 | 178  | 2936     | 0.045 | ng/ul# | 83       |
| 19) Fluoranthene            | 19.446 | 202  | 56264    | 0.679 | ng/ul  | 98       |
| 20) Pyrene                  | 19.813 | 202  | 46706m   | 0.547 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.554 | 228  | 21111    | 0.266 | ng/ul  | 95       |
| 22) Chrysene                | 21.612 | 228  | 26673    | 0.326 | ng/ul# | 95       |
| 24) Benzo(b)fluoranthene    | 23.293 | 252  | 37235m   | 0.464 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.343 | 252  | 13818m   | 0.178 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.956 | 252  | 20497    | 0.318 | ng/ul# | 52       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.696 | 276  | 17299    | 0.209 | ng/ul# | 30       |
| 29) Benzo(g,h,i)perylene    | 27.525 | 276  | 18733    | 0.267 | ng/ul# | 47       |
| -----                       |        |      |          |       |        |          |

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

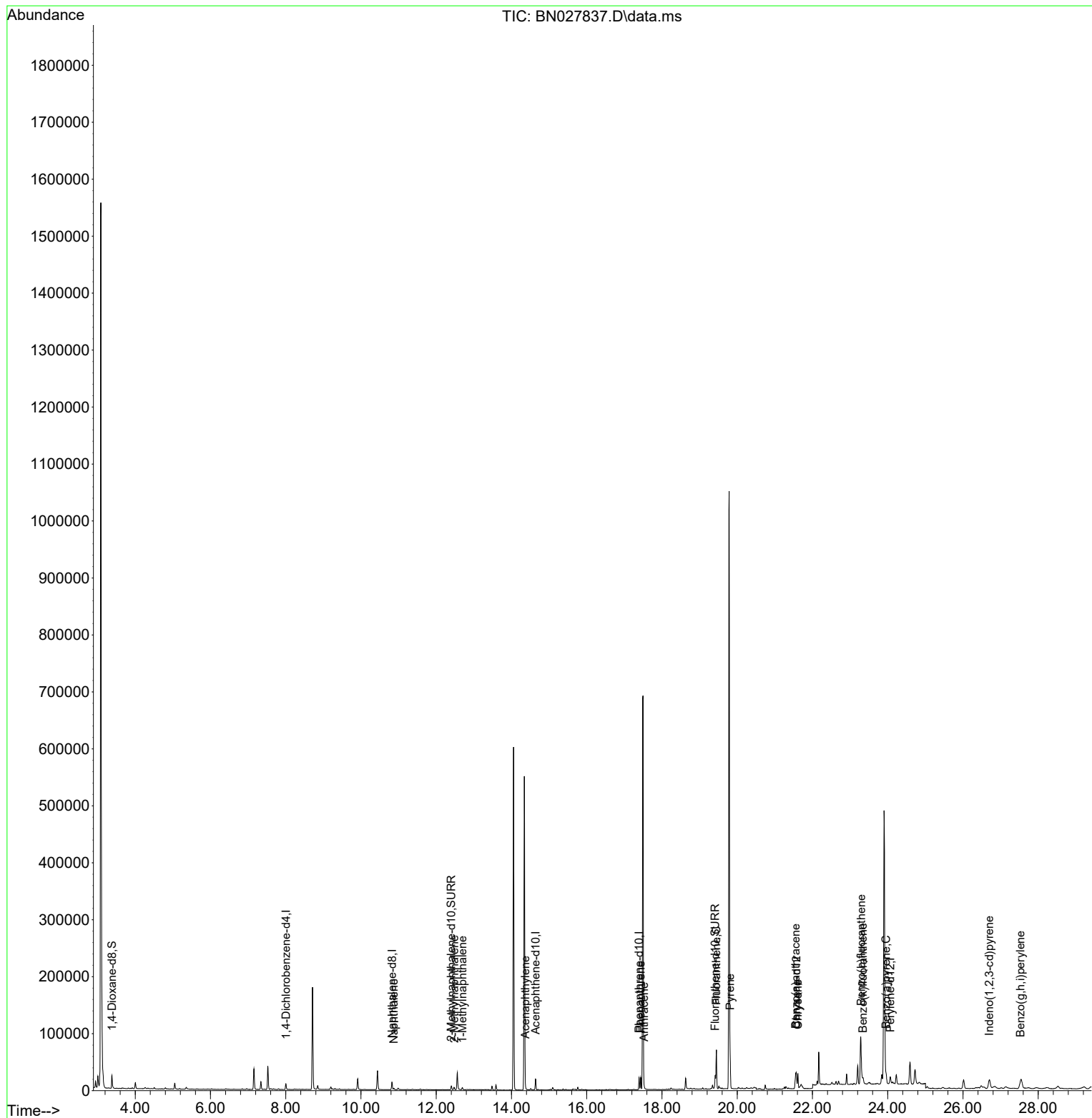
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092223\  
Data File : BN027837.D  
Acq On : 22 Sep 2023 22:45  
Operator : MA/JU  
Sample : 04387-11  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

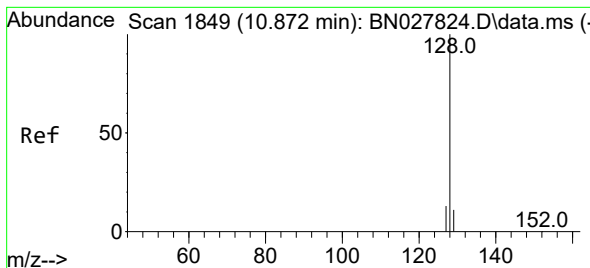
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8

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Supervised By :mohammad ahmed 09/25/2023

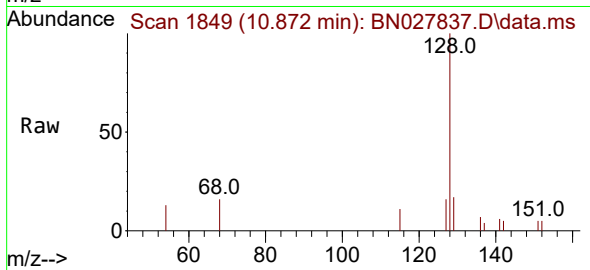
Quant Time: Sep 23 03:50:03 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN091523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 22 03:58:00 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.063 ng/ul  
RT: 10.872 min Scan# 1849  
Delta R.T. -0.005 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

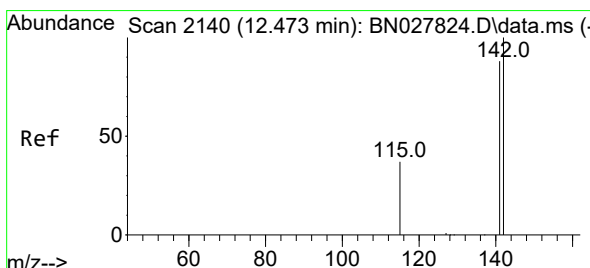
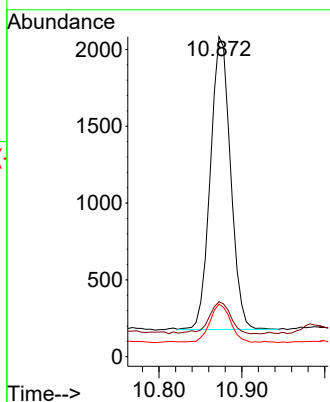
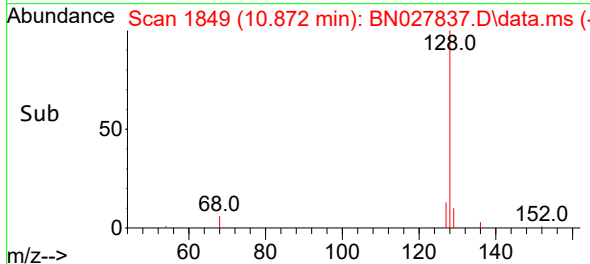
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8



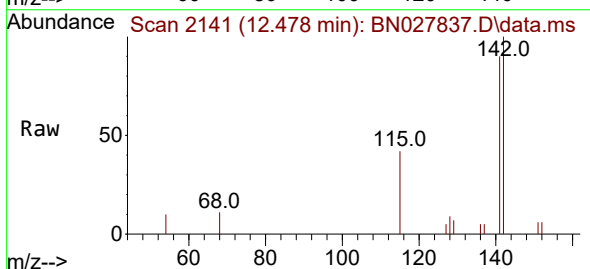
Tgt Ion:128 Resp: 3228  
Ion Ratio Lower Upper  
128 100  
129 17.2 9.3 13.9  
127 16.5 10.7 16.1

Manual Integrations  
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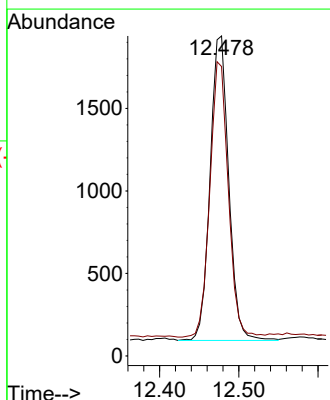
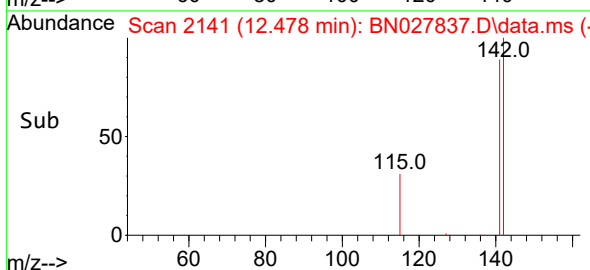
Reviewed By :Yogesh Patel 09/25/2023  
Supervised By :mohammad ahmed 09/25/2023

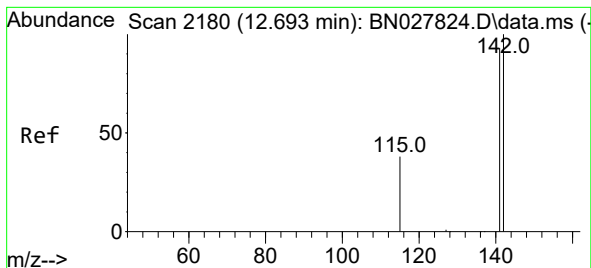


#7  
2-Methylnaphthalene  
Concen: 0.093 ng/ul  
RT: 12.478 min Scan# 2141  
Delta R.T. 0.000 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45



Tgt Ion:142 Resp: 3013  
Ion Ratio Lower Upper  
142 100  
141 89.1 71.1 106.7





#8

1-Methylnaphthalene

Concen: 0.076 ng/ul

RT: 12.693 min Scan# 2180

Delta R.T. -0.005 min

Lab File: BN027837.D

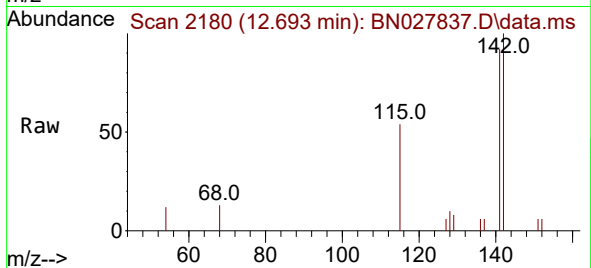
Acq: 22 Sep 2023 22:45

Instrument :

BNA\_N

ClientSampleId :

C0AB8



Tgt Ion:142 Resp: 252

Ion Ratio Lower Upper

142 100

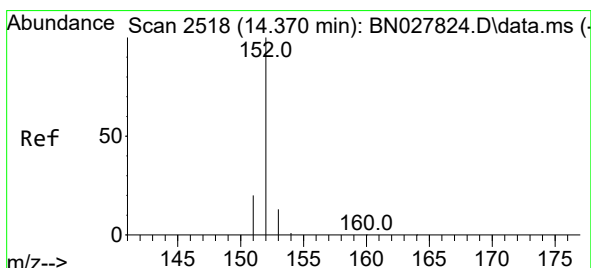
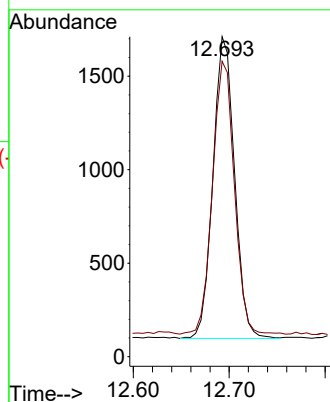
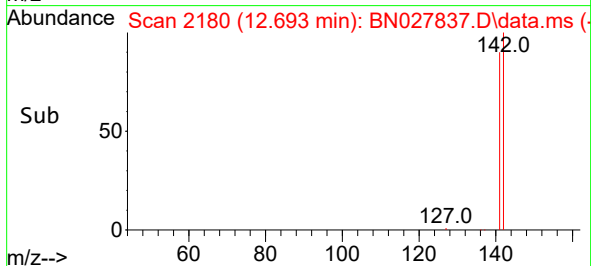
141 91.2 72.8 109.2

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#10

Acenaphthylene

Concen: 0.053 ng/ul

RT: 14.370 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN027837.D

Acq: 22 Sep 2023 22:45

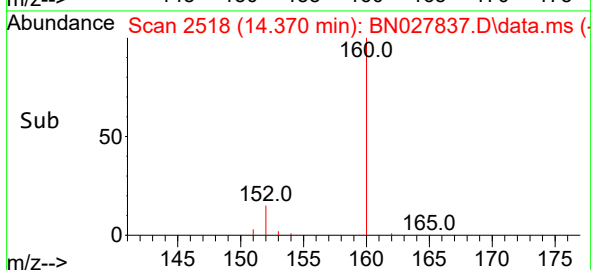
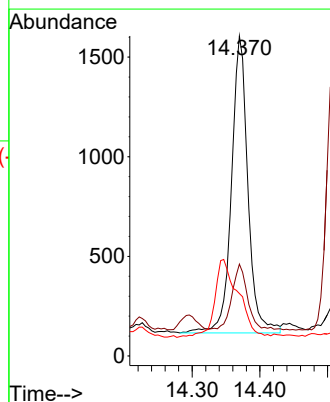
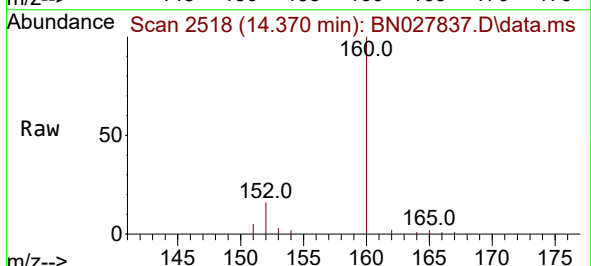
Tgt Ion:152 Resp: 2525

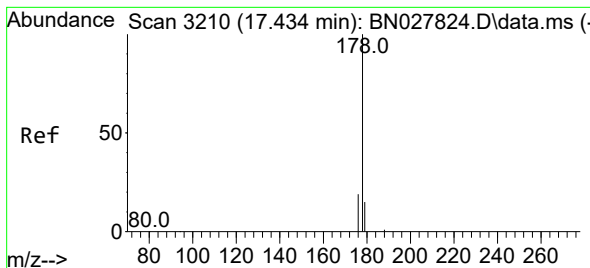
Ion Ratio Lower Upper

152 100

151 28.7 16.6 25.0#

153 19.5 11.0 16.6#





#15

Phenanthrene

Concen: 0.284 ng/ul

RT: 17.434 min Scan# 3210

Delta R.T. 0.000 min

Lab File: BN027837.D

Acq: 22 Sep 2023 22:45

Instrument :

BNA\_N

ClientSampleId :

C0AB8

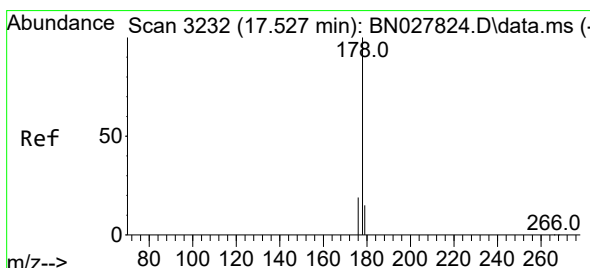
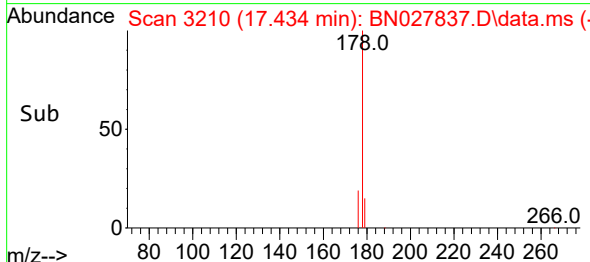
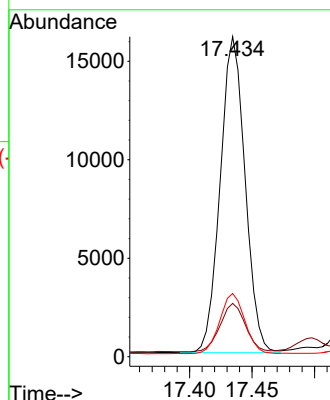
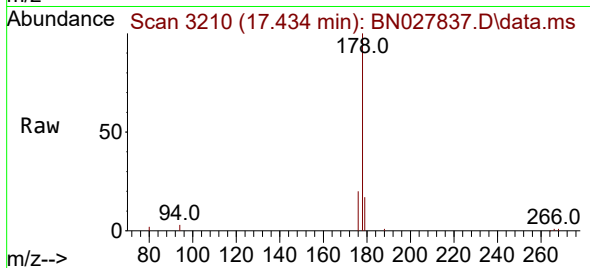
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 2216      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.6  | 12.4 18.6 |
| 176         | 19.7  | 16.0 24.0 |

Manual Integrations

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Supervised By :mohammad ahmed 09/25/2023



#16

Anthracene

Concen: 0.045 ng/ul

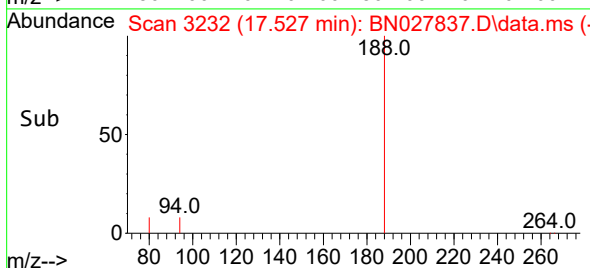
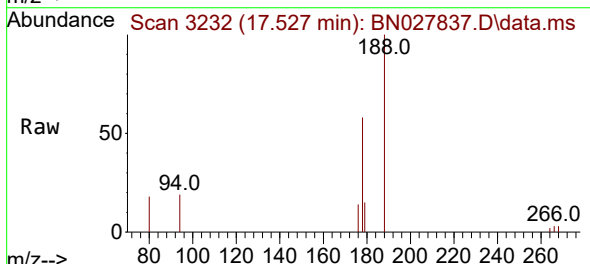
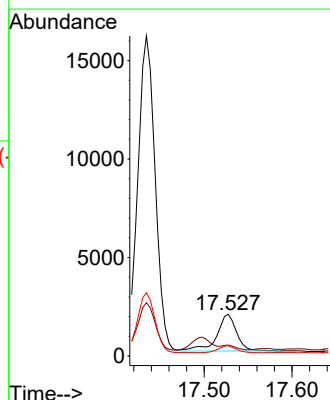
RT: 17.527 min Scan# 3232

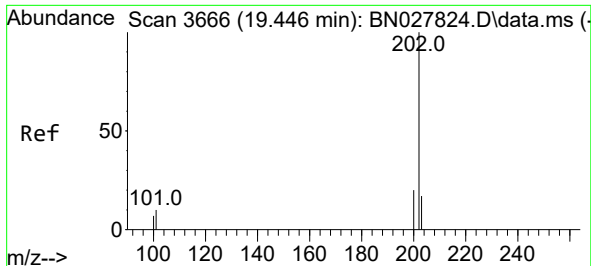
Delta R.T. 0.000 min

Lab File: BN027837.D

Acq: 22 Sep 2023 22:45

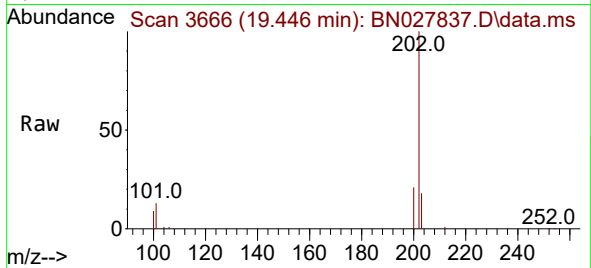
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 2936       |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 26.0  | 12.6 19.0# |
| 176         | 24.8  | 15.5 23.3# |





#19  
Fluoranthene  
Concen: 0.679 ng/ul  
RT: 19.446 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

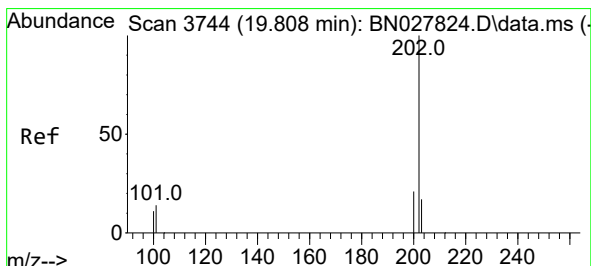
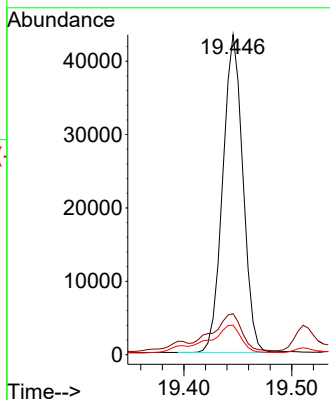
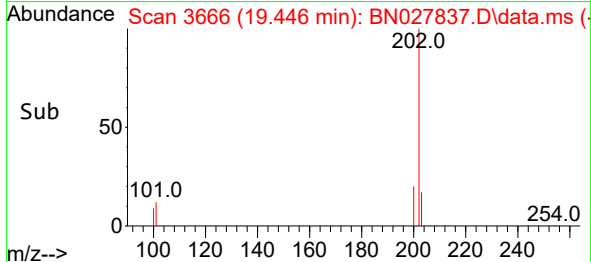
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8



Tgt Ion:202 Resp: 56264  
Ion Ratio Lower Upper  
202 100  
101 12.8 9.3 13.9  
100 9.2 7.0 10.4

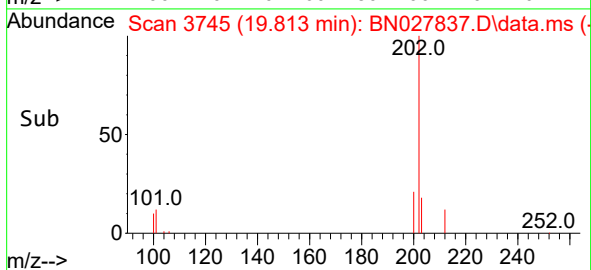
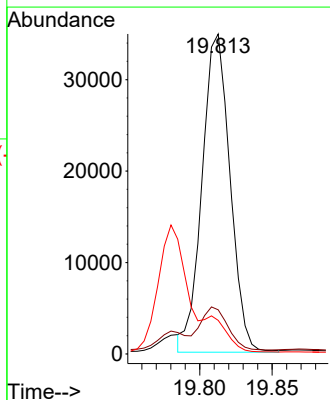
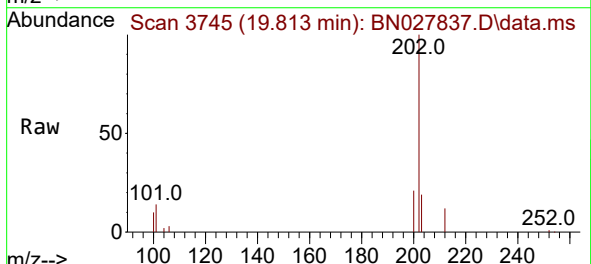
Manual Integrations  
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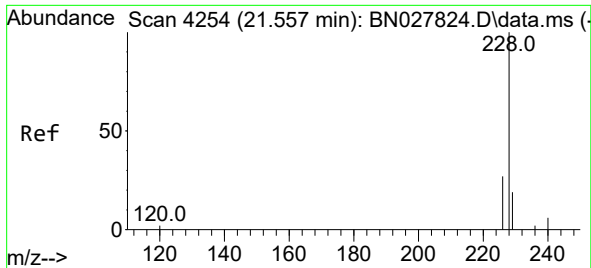
Reviewed By :Yogesh Patel 09/25/2023  
Supervised By :mohammad ahmed 09/25/2023



#20  
Pyrene  
Concen: 0.547 ng/ul m  
RT: 19.813 min Scan# 3745  
Delta R.T. 0.000 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

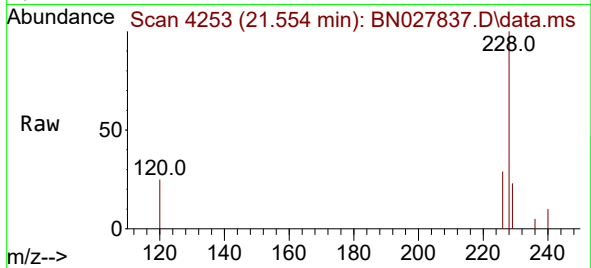
Tgt Ion:202 Resp: 46706  
Ion Ratio Lower Upper  
202 100  
101 13.8 11.4 17.0  
100 10.5 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 0.266 ng/ul  
RT: 21.554 min Scan# 4254  
Delta R.T. 0.000 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

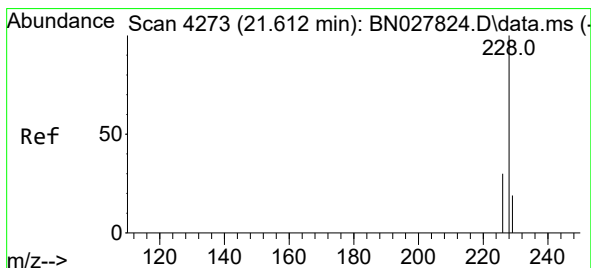
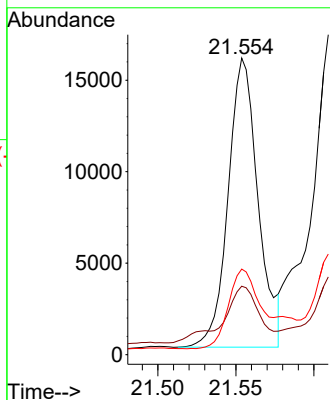
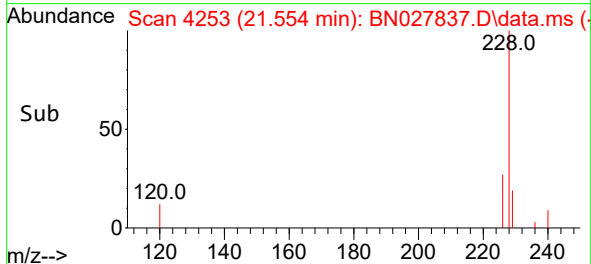
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8



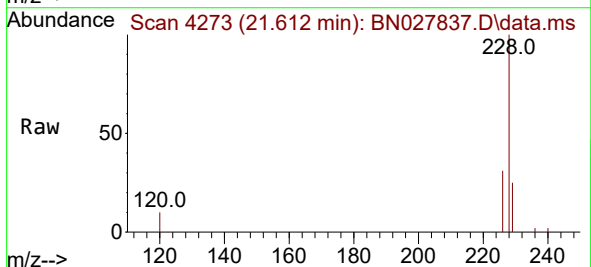
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Ion Ratio Lower Upper  
228 100  
229 23.1 15.8 23.8  
226 28.9 22.0 33.0

Manual Integrations  
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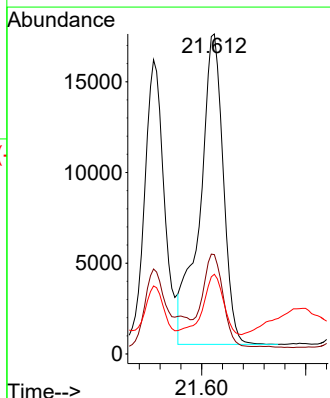
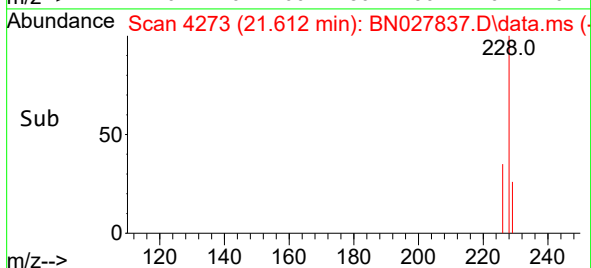
Reviewed By :Yogesh Patel 09/25/2023  
Supervised By :mohammad ahmed 09/25/2023

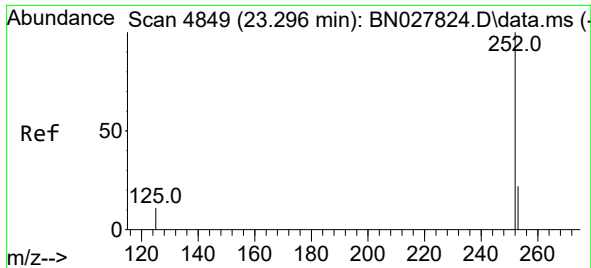


#22  
Chrysene  
Concen: 0.326 ng/ul  
RT: 21.612 min Scan# 4273  
Delta R.T. 0.003 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45



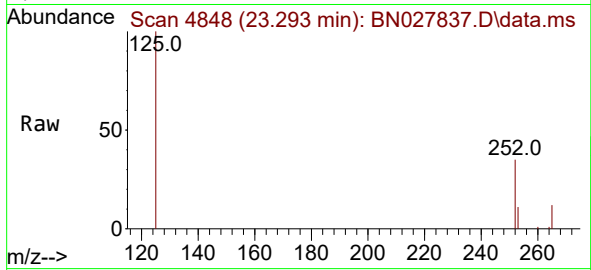
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Ion Ratio Lower Upper  
228 100  
226 31.0 24.5 36.7  
229 24.9 16.0 24.0#





#24  
Benzo(b)fluoranthene  
Concen: 0.464 ng/ul m  
RT: 23.293 min Scan# 4849  
Delta R.T. 0.003 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

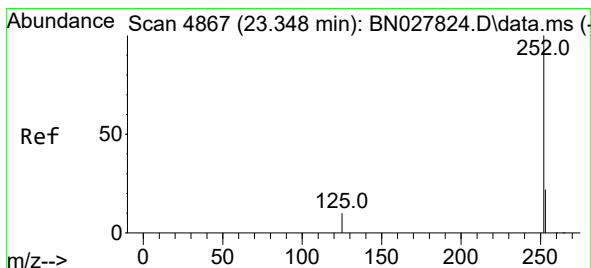
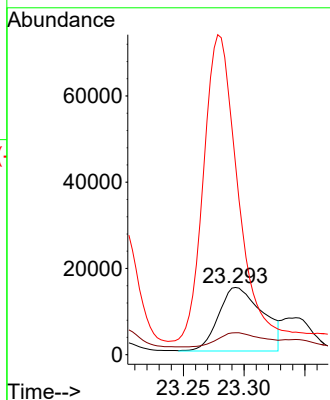
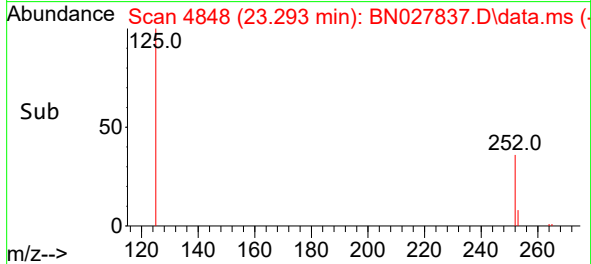
Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8



Tgt Ion:252 Resp: 37235  
Ion Ratio Lower Upper  
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253 32.6 0.0 50.2  
125 283.9 0.0 31.4

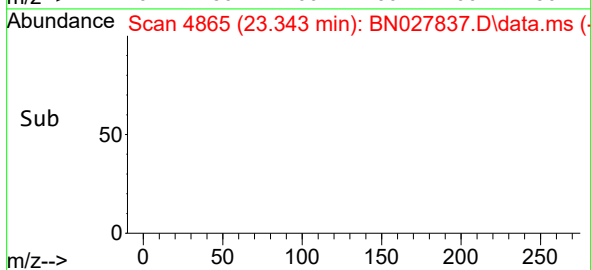
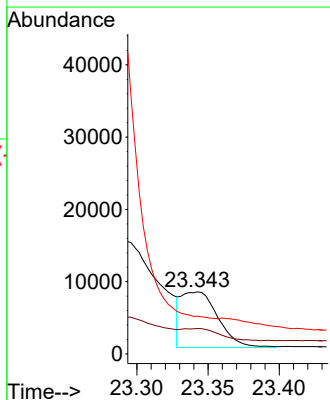
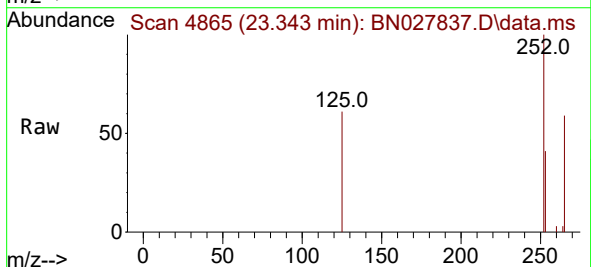
Manual Integrations  
APPROVED

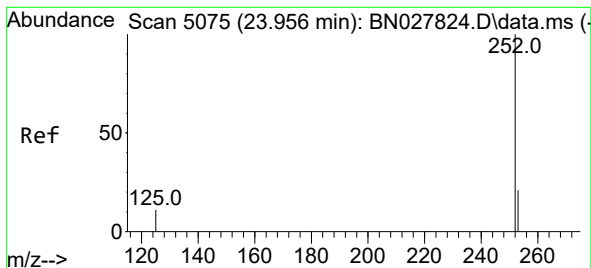
Reviewed By :Yogesh Patel 09/25/2023  
Supervised By :mohammad ahmed 09/25/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.178 ng/ul m  
RT: 23.343 min Scan# 4865  
Delta R.T. 0.000 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

Tgt Ion:252 Resp: 13818  
Ion Ratio Lower Upper  
252 100  
253 41.0 19.9 29.9#  
125 60.9 12.6 19.0#





#26

Benzo(a)pyrene

Concen: 0.318 ng/ul

RT: 23.956 min Scan# 5075

Delta R.T. 0.006 min

Lab File: BN027837.D

Acq: 22 Sep 2023 22:45

Instrument :

BN027837.D

ClientSampleId :

C0AB8

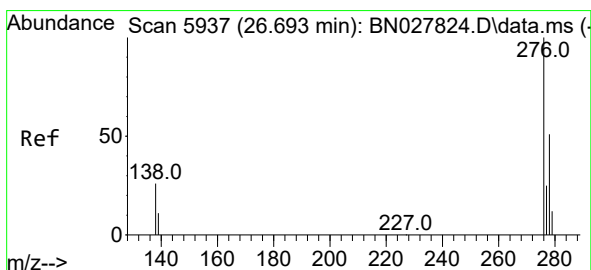
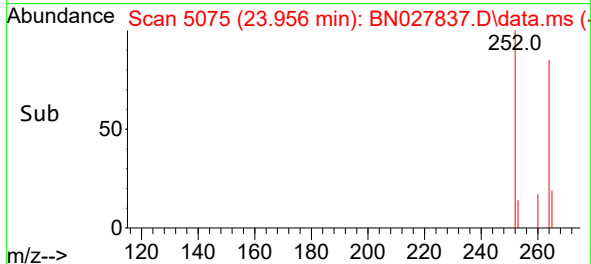
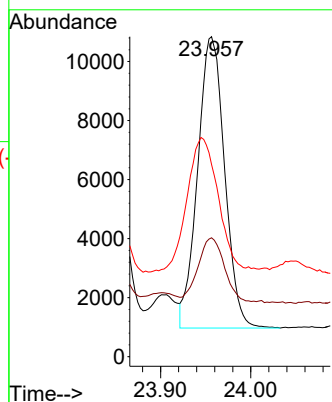
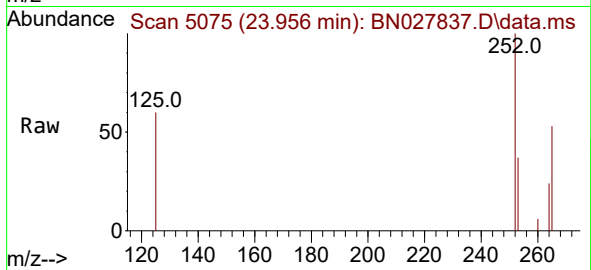
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 2049 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 37.1  | 21.9  | 32.9 |
| 125       | 60.1  | 15.5  | 23.3 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/25/2023

Supervised By :mohammad ahmed 09/25/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.209 ng/ul

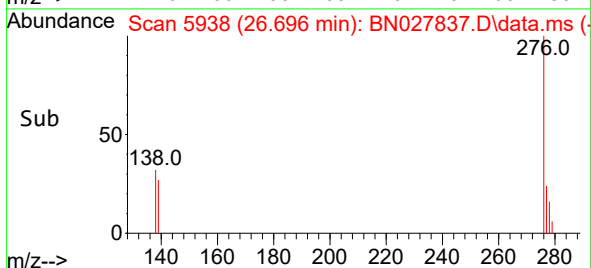
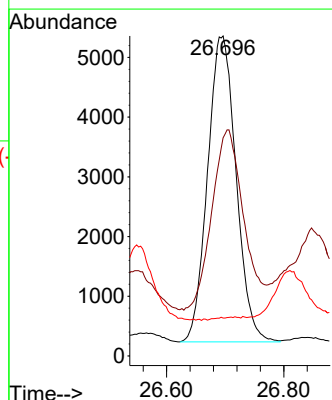
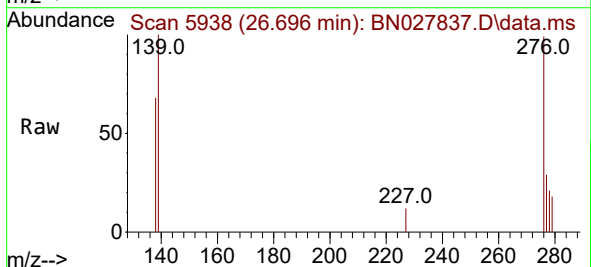
RT: 26.696 min Scan# 5938

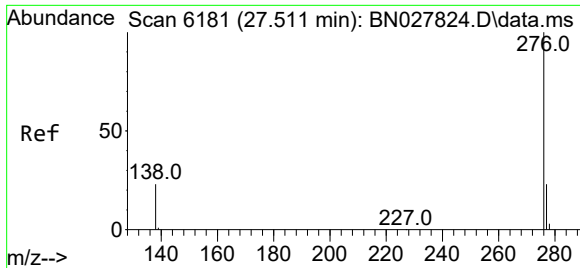
Delta R.T. 0.014 min

Lab File: BN027837.D

Acq: 22 Sep 2023 22:45

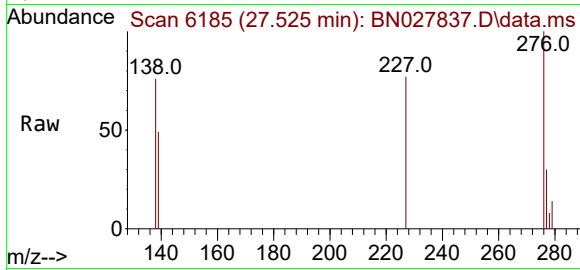
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 17299 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 68.3  | 24.3  | 36.5  |
| 227       | 0.0   | 0.0   | 0.0   |





#29  
Benzo(g,h,i)perylene  
Concen: 0.267 ng/ul  
RT: 27.525 min Scan# 6185  
Delta R.T. 0.020 min  
Lab File: BN027837.D  
Acq: 22 Sep 2023 22:45

Instrument :  
BNA\_N  
ClientSampleId :  
C0AB8



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 1873 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 75.8  | 21.7  | 32.5 |
| 277       | 30.3  | 20.2  | 30.2 |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/25/2023  
Supervised By :mohammad ahmed 09/25/2023

