

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062423\  
 Data File : BN025988.D  
 Acq On : 24 Jun 2023 03:33  
 Operator : MA/JU  
 Sample : 03083-15DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFL3DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/24/2023  
 Supervised By :mohammad ahmed 06/25/2023

Quant Time: Jun 24 04:03:10 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN062223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 22 01:27:41 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.976  | 152  | 8419     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.787 | 136  | 26710    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.616 | 164  | 16134    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.360 | 188  | 35634    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.546 | 240  | 22652    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.014 | 264  | 20189    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.331  | 96   | 6609     | 0.697 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.382 | 152  | 1965     | 0.048 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.387 | 212  | 4880     | 0.057 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.842 | 128  | 3484     | 0.046 | ng/ul# | 91       |
| 7) 2-Methylnaphthalene      | 12.453 | 142  | 2096     | 0.043 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.667 | 142  | 1435     | 0.028 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.334 | 152  | 2550     | 0.034 | ng/ul# | 88       |
| 11) Acenaphthene            | 14.677 | 153  | 1369     | 0.022 | ng/ul  | 96       |
| 15) Phenanthrene            | 17.402 | 178  | 47812    | 0.406 | ng/ul  | 100      |
| 16) Anthracene              | 17.495 | 178  | 6176     | 0.059 | ng/ul# | 92       |
| 19) Fluoranthene            | 19.415 | 202  | 112422   | 0.929 | ng/ul  | 99       |
| 20) Pyrene                  | 19.777 | 202  | 91897    | 0.730 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.529 | 228  | 40523    | 0.434 | ng/ul  | 97       |
| 22) Chrysene                | 21.582 | 228  | 49398    | 0.508 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.259 | 252  | 57673m   | 0.669 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.297 | 252  | 21571m   | 0.249 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.905 | 252  | 34347    | 0.459 | ng/ul  | 94       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.594 | 276  | 27281    | 0.334 | ng/ul# | 100      |
| 28) Dibenzo(a,h)anthracene  | 26.608 | 278  | 6728     | 0.109 | ng/ul# | 71       |
| 29) Benzo(g,h,i)perylene    | 27.396 | 276  | 27363    | 0.376 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

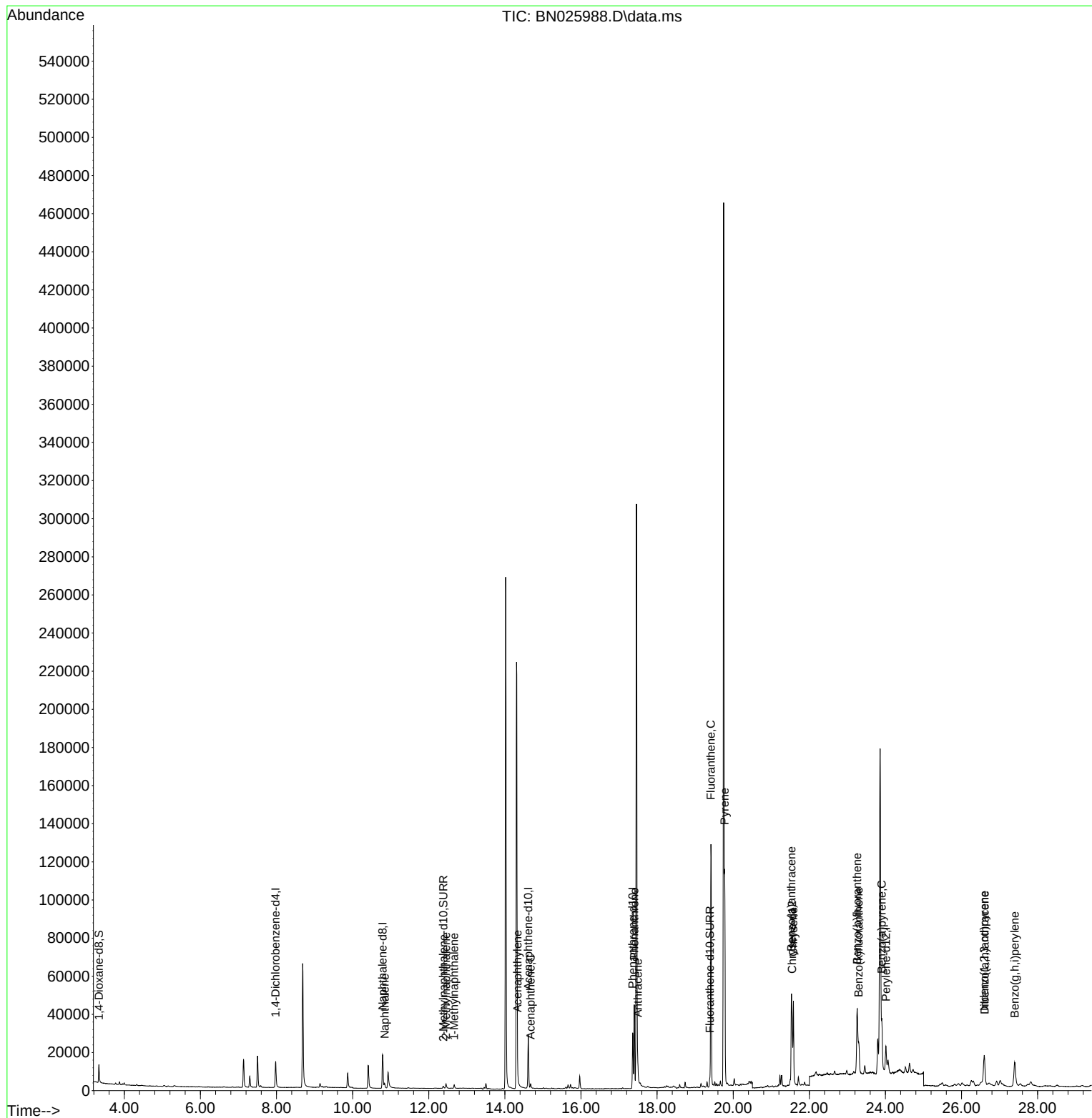
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062423\  
Data File : BN025988.D  
Acq On : 24 Jun 2023 03:33  
Operator : MA/JU  
Sample : 03083-15DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

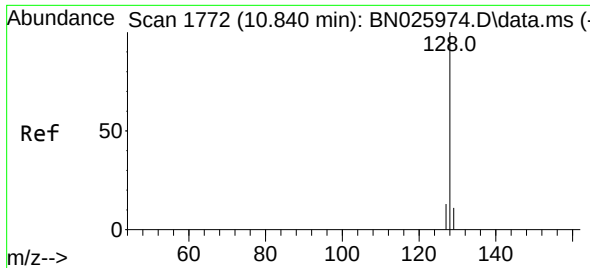
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023

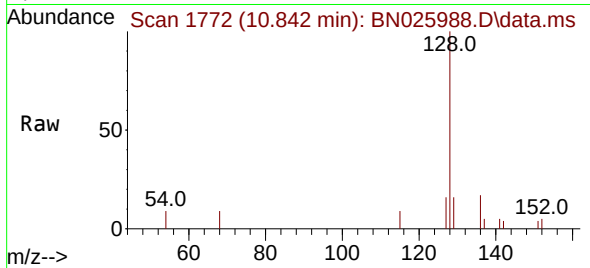
Quant Time: Jun 24 04:03:10 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 22 01:27:41 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.046 ng/u1  
RT: 10.842 min Scan# 1772  
Delta R.T. -0.005 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

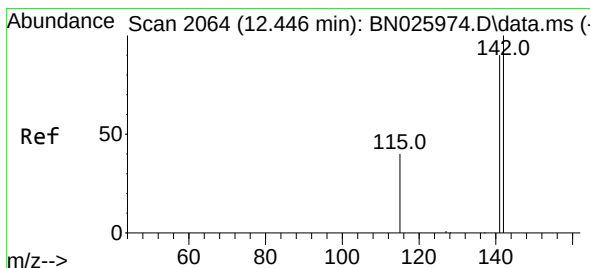
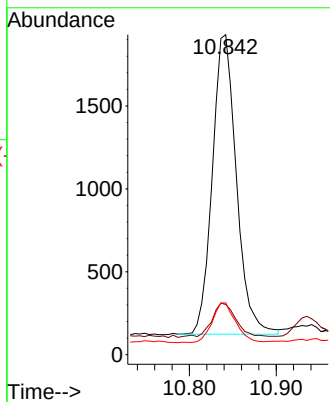
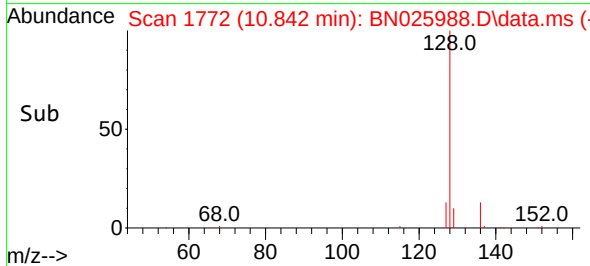
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



Tgt Ion:128 Resp: 3484  
Ion Ratio Lower Upper  
128 100  
129 15.7 9.1 13.7  
127 16.2 10.7 16.1

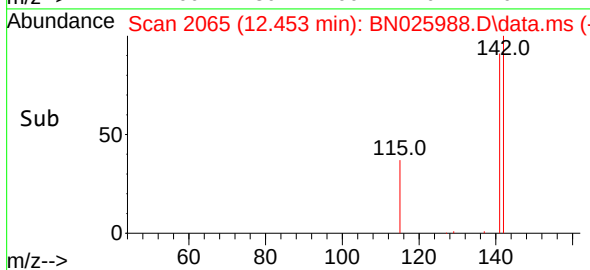
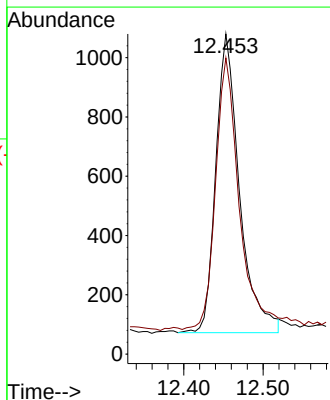
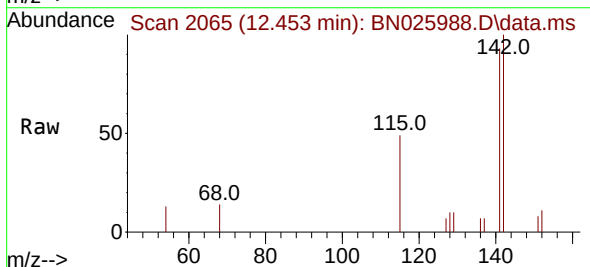
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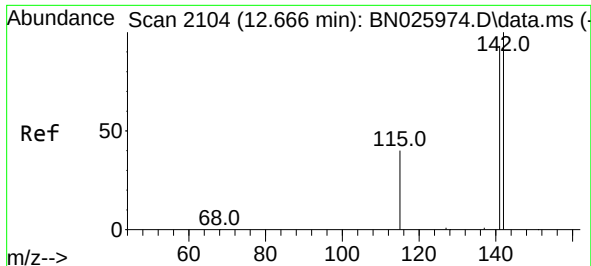
Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023



#7  
2-Methylnaphthalene  
Concen: 0.043 ng/u1  
RT: 12.453 min Scan# 2065  
Delta R.T. 0.000 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

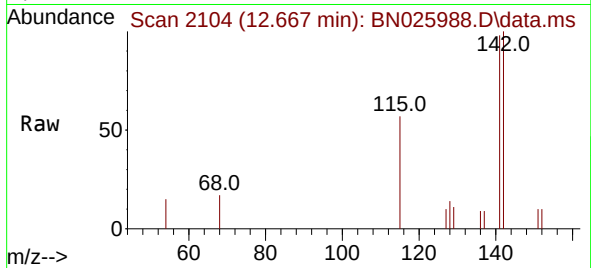
Tgt Ion:142 Resp: 2096  
Ion Ratio Lower Upper  
142 100  
141 90.4 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.028 ng/u1  
RT: 12.667 min Scan# 2104  
Delta R.T. -0.005 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

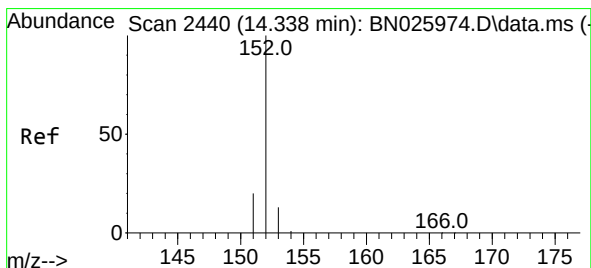
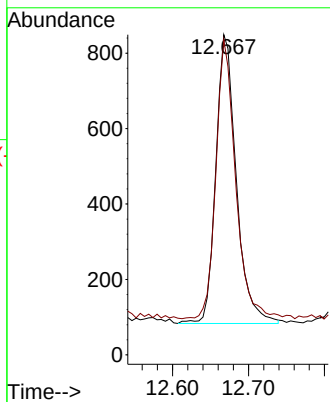
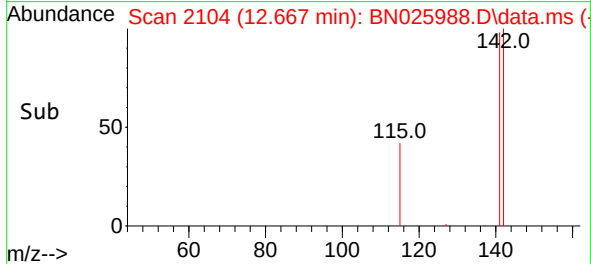
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



Tgt Ion:142 Resp: 1435  
Ion Ratio Lower Upper  
142 100  
141 92.5 74.2 111.4

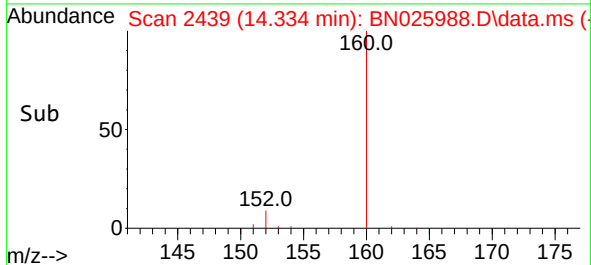
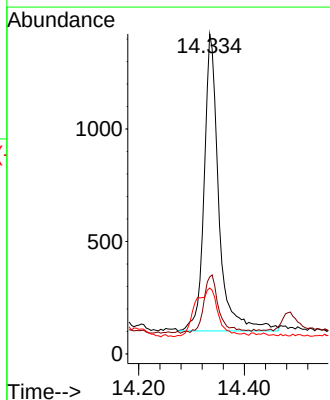
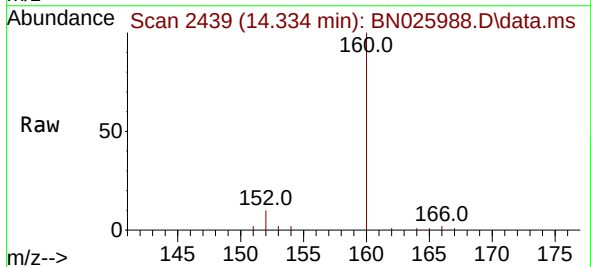
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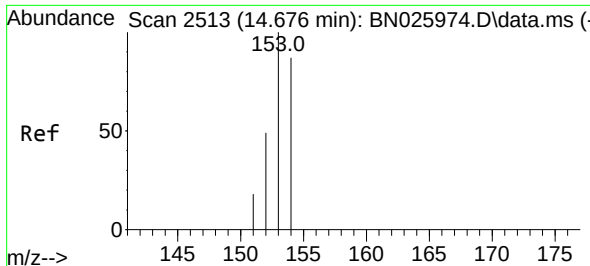
Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023



#10  
Acenaphthylene  
Concen: 0.034 ng/u1  
RT: 14.334 min Scan# 2439  
Delta R.T. -0.009 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

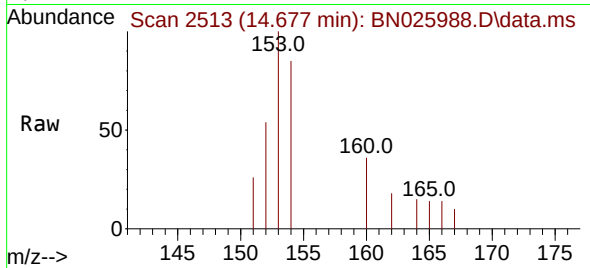
Tgt Ion:152 Resp: 2550  
Ion Ratio Lower Upper  
152 100  
151 24.0 16.2 24.4  
153 20.6 10.9 16.3#





#11  
Acenaphthene  
Concen: 0.022 ng/u1  
RT: 14.677 min Scan# 2513  
Delta R.T. -0.005 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

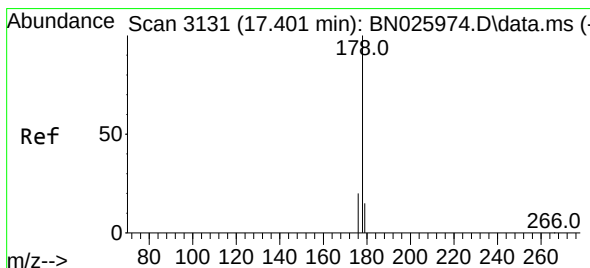
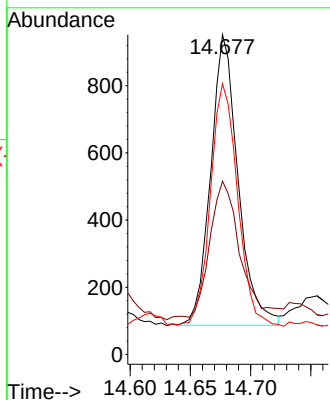
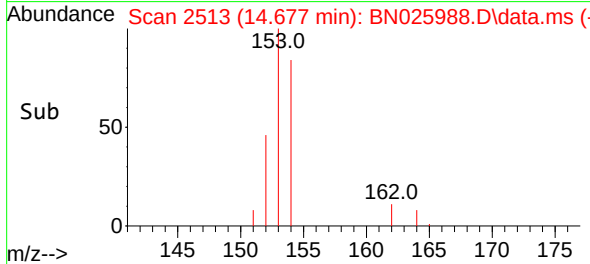
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



Tgt Ion:153 Resp: 1369  
Ion Ratio Lower Upper  
153 100  
152 54.2 39.4 59.0  
154 84.7 68.9 103.3

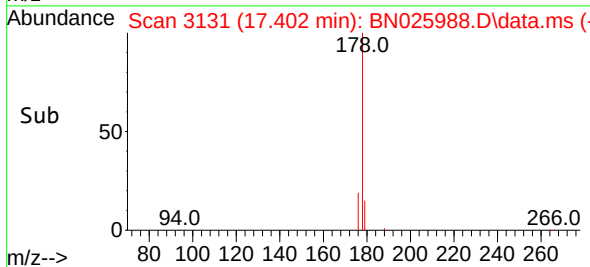
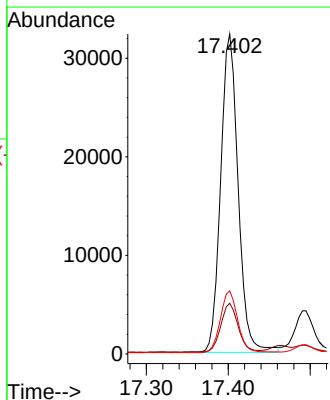
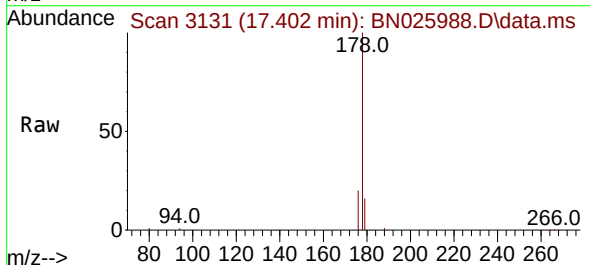
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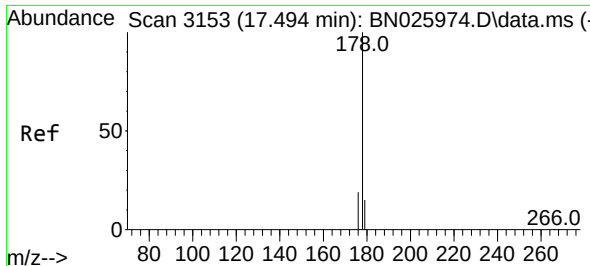
Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023



#15  
Phenanthrene  
Concen: 0.406 ng/u1  
RT: 17.402 min Scan# 3131  
Delta R.T. -0.004 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

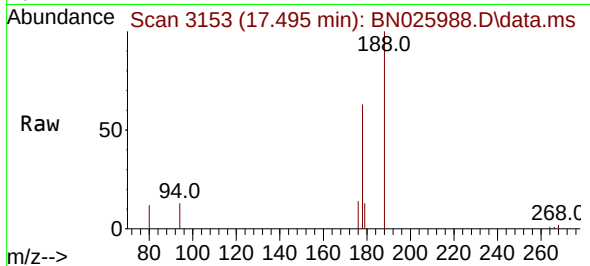
Tgt Ion:178 Resp: 47812  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.6 19.0  
176 19.8 15.8 23.6





#16  
 Anthracene  
 Concen: 0.059 ng/u1  
 RT: 17.495 min Scan# 3153  
 Delta R.T. -0.004 min  
 Lab File: BN025988.D  
 Acq: 24 Jun 2023 03:33

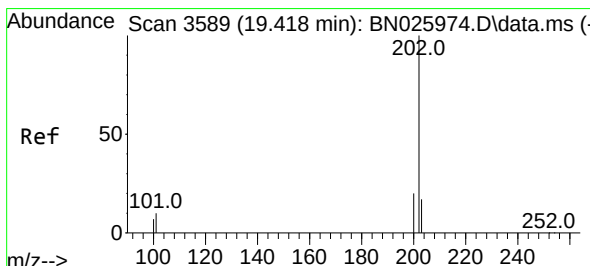
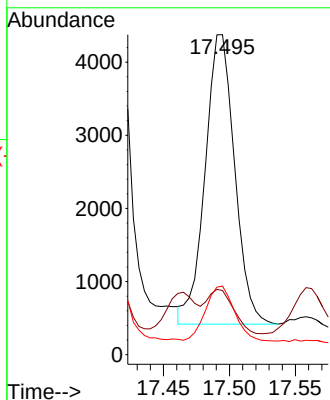
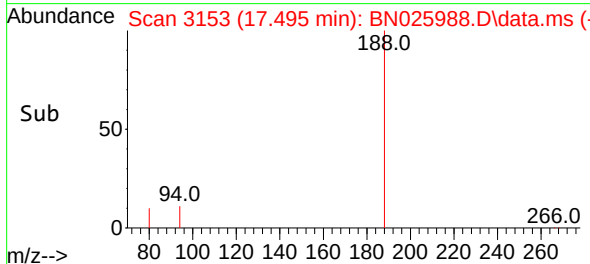
Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFL3DL



Tgt Ion:178 Resp: 6170  
 Ion Ratio Lower Upper  
 178 100  
 179 20.1 12.6 18.8  
 176 21.5 15.1 22.7

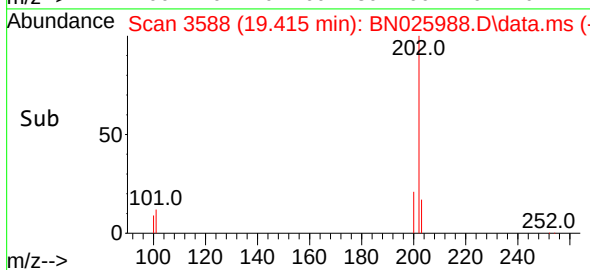
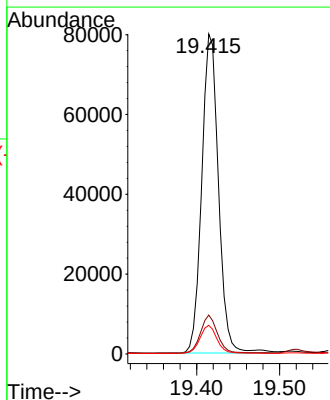
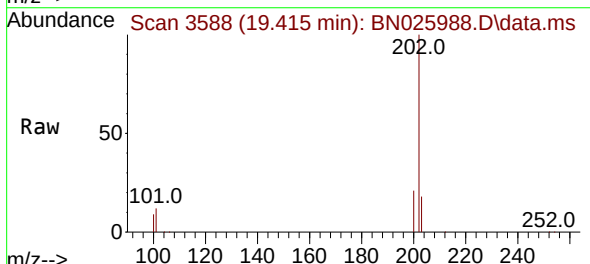
Manual Integrations  
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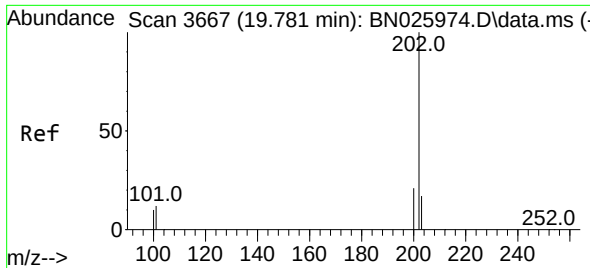
Reviewed By :Yogesh Patel 06/24/2023  
 Supervised By :mohammad ahmed 06/25/2023



#19  
 Fluoranthene  
 Concen: 0.929 ng/u1  
 RT: 19.415 min Scan# 3588  
 Delta R.T. -0.005 min  
 Lab File: BN025988.D  
 Acq: 24 Jun 2023 03:33

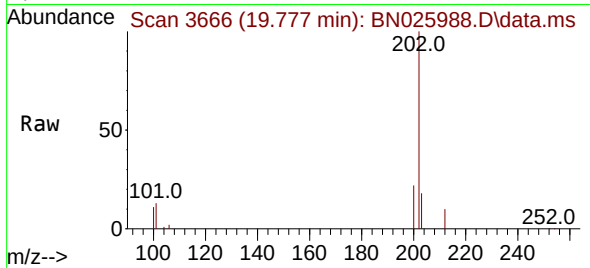
Tgt Ion:202 Resp: 112422  
 Ion Ratio Lower Upper  
 202 100  
 101 12.1 9.5 14.3  
 100 9.0 7.3 10.9





#20  
Pyrene  
Concen: 0.730 ng/ul  
RT: 19.777 min Scan# 30  
Delta R.T. -0.005 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

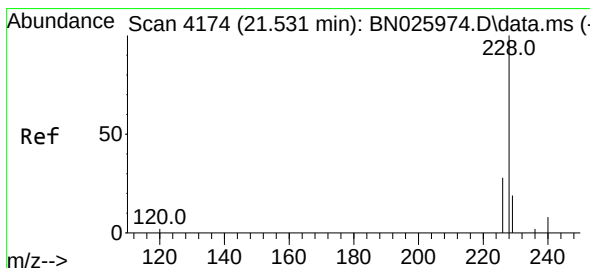
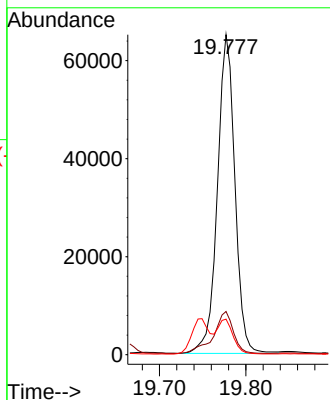
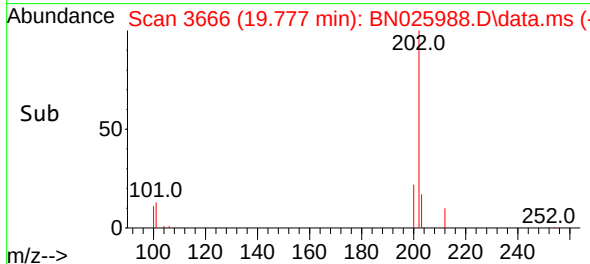
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



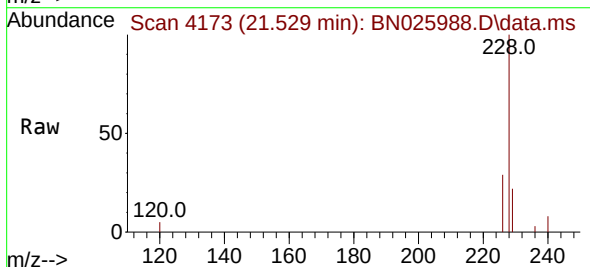
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101 13.5 11.4 17.0  
100 11.1 9.1 13.7

Manual Integrations  
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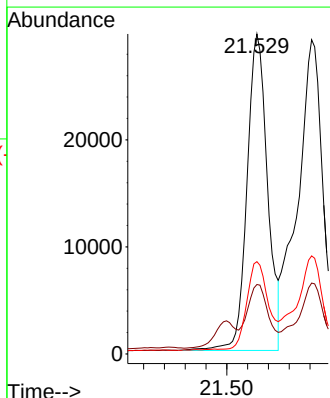
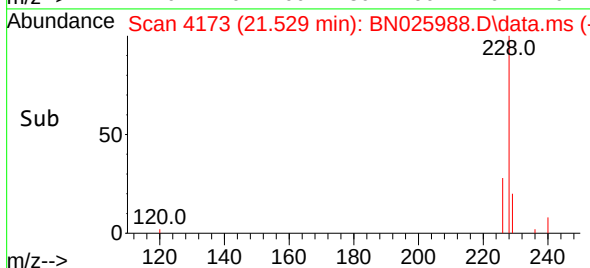
Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023

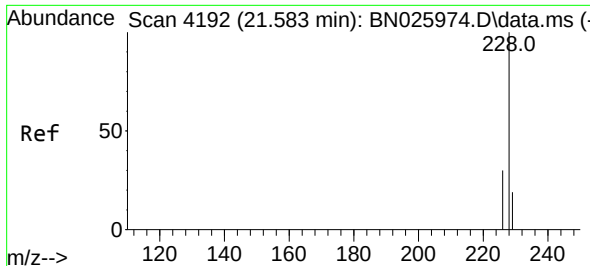


#21  
Benzo(a)anthracene  
Concen: 0.434 ng/ul  
RT: 21.529 min Scan# 4173  
Delta R.T. -0.003 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33



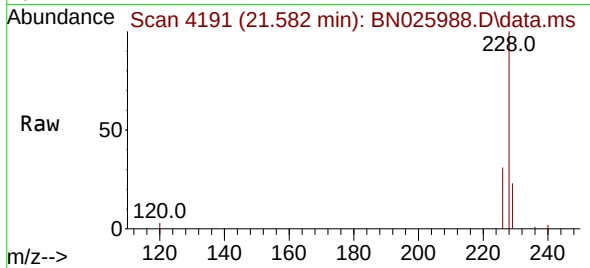
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Ion Ratio Lower Upper  
228 100  
229 21.7 15.8 23.6  
226 28.9 22.5 33.7





#22  
Chrysene  
Concen: 0.508 ng/ul  
RT: 21.582 min Scan# 4191  
Delta R.T. -0.003 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

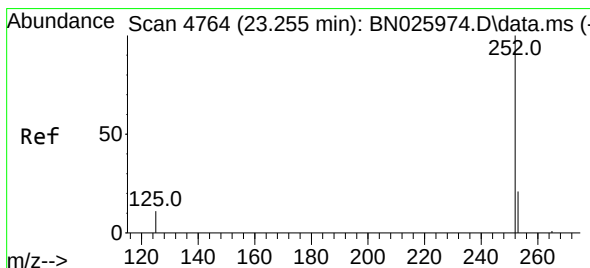
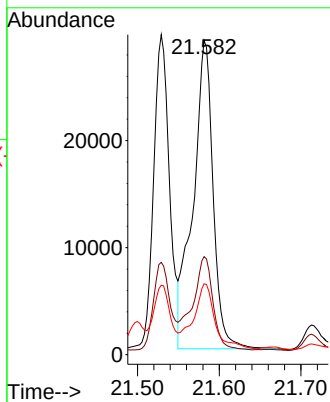
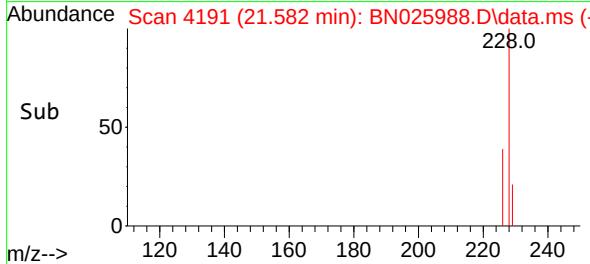
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



Tgt Ion:228 Resp: 49398  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.8 37.2  
229 22.5 15.7 23.5

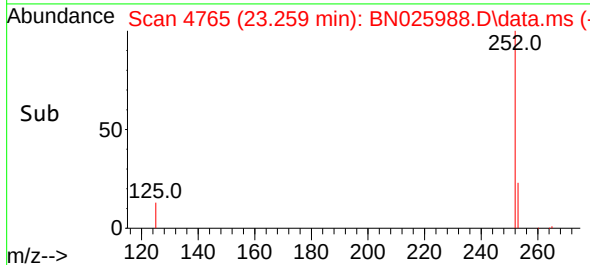
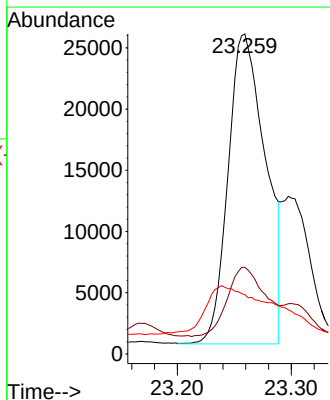
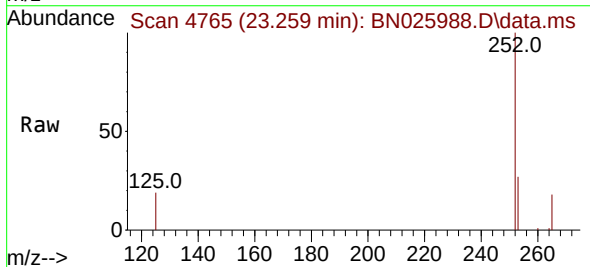
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023

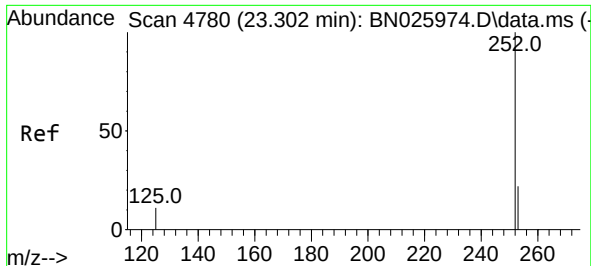


#24  
Benzo(b)fluoranthene  
Concen: 0.669 ng/ul m  
RT: 23.259 min Scan# 4765  
Delta R.T. 0.003 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

Tgt Ion:252 Resp: 57673  
Ion Ratio Lower Upper  
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253 27.1 0.0 55.6  
125 18.5 0.0 35.8

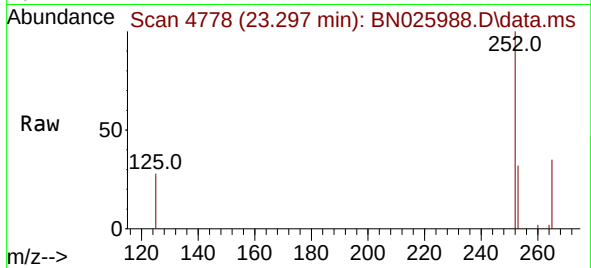






#25  
Benzo(k)fluoranthene  
Concen: 0.249 ng/ul m  
RT: 23.297 min Scan# 4778  
Delta R.T. -0.012 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

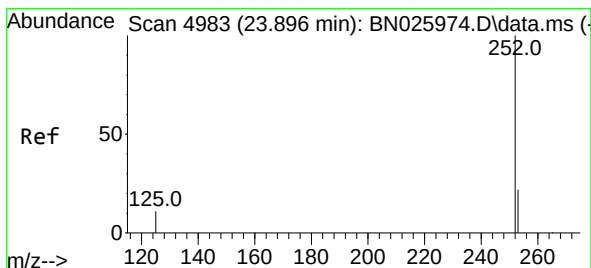
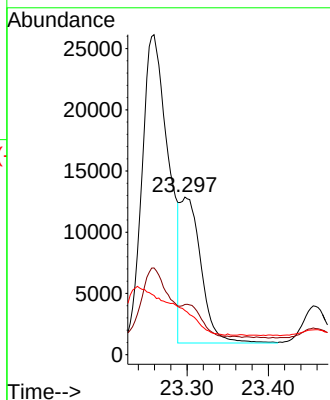
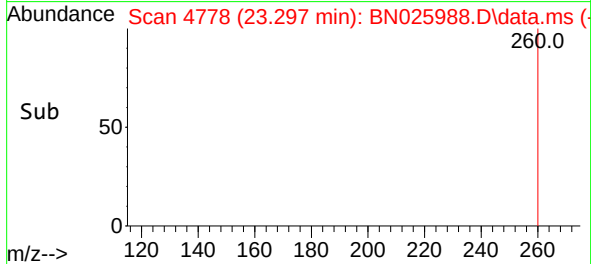
Instrument :  
BNA\_N  
ClientSampleId :  
DCFL3DL



Tgt Ion:252 Resp: 2157  
Ion Ratio Lower Upper  
252 100  
253 31.9 23.2 34.8  
125 28.0 15.0 22.4

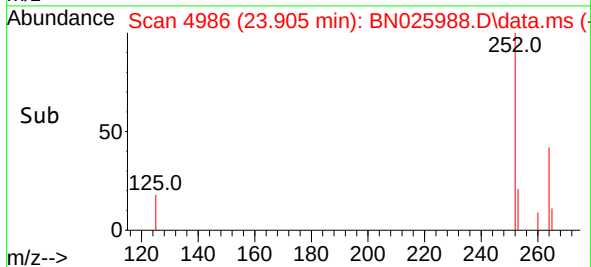
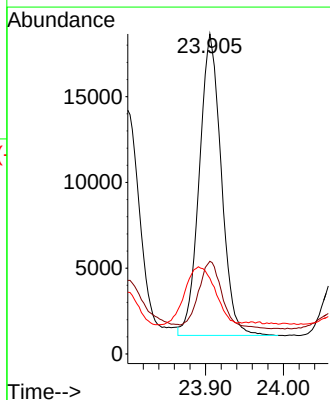
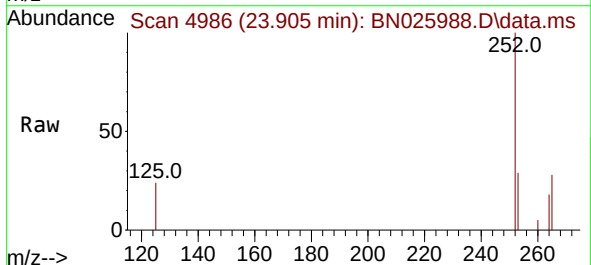
Manual Integrations  
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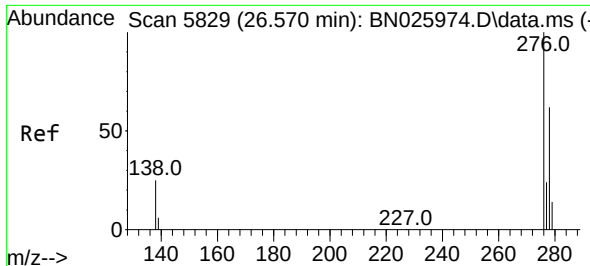
Reviewed By :Yogesh Patel 06/24/2023  
Supervised By :mohammad ahmed 06/25/2023



#26  
Benzo(a)pyrene  
Concen: 0.459 ng/ul  
RT: 23.905 min Scan# 4986  
Delta R.T. -0.003 min  
Lab File: BN025988.D  
Acq: 24 Jun 2023 03:33

Tgt Ion:252 Resp: 34347  
Ion Ratio Lower Upper  
252 100  
253 28.9 26.0 39.0  
125 23.6 17.3 25.9





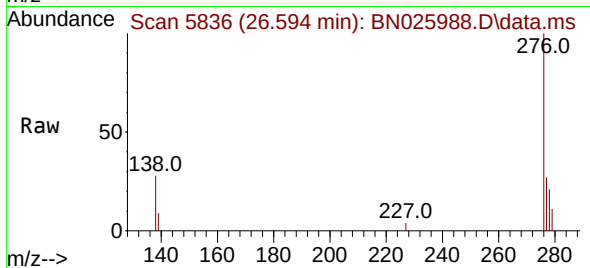
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.334 ng/ul  
 RT: 26.594 min Scan# 5836  
 Delta R.T. 0.000 min  
 Lab File: BN025988.D  
 Acq: 24 Jun 2023 03:33

Instrument :

BNA\_N

ClientSampleId :

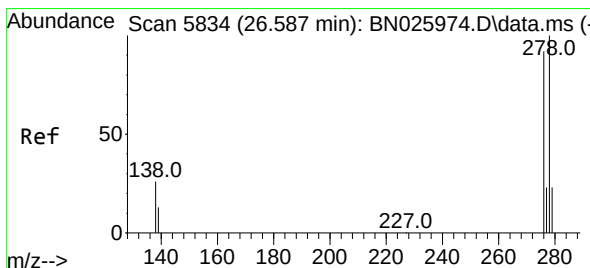
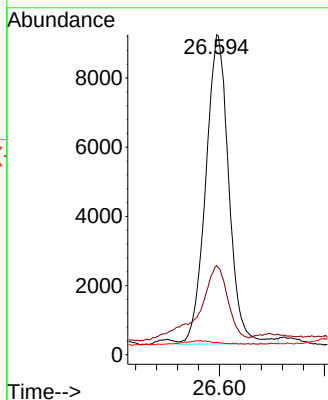
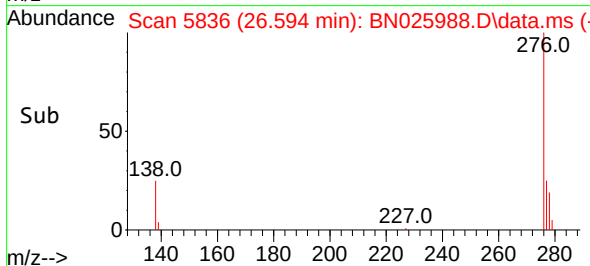
DCFL3DL



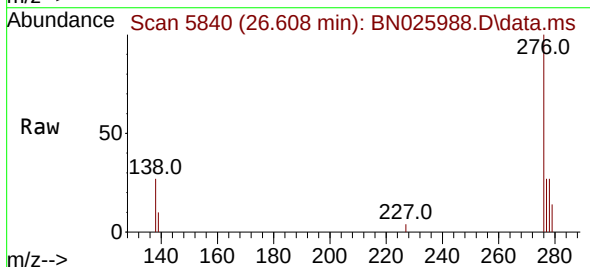
Tgt Ion:276 Resp: 2728  
 Ion Ratio Lower Upper  
 276 100  
 138 30.7 24.5 36.7  
 227 0.0 0.0 0.0

Manual Integrations  
 APPROVED

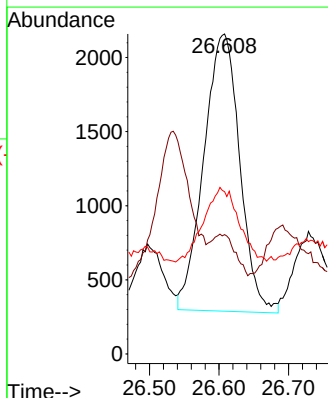
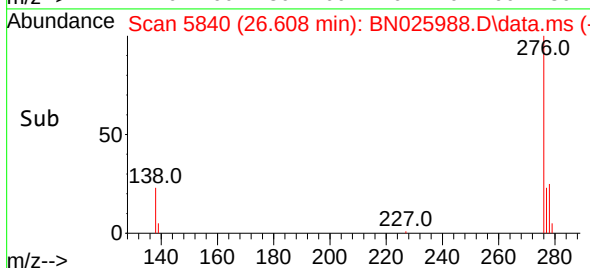
Reviewed By :Yogesh Patel 06/24/2023  
 Supervised By :mohammad ahmed 06/25/2023

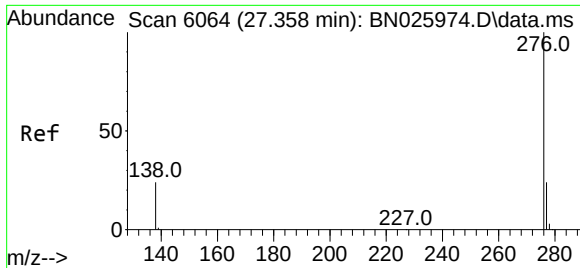


#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.109 ng/ul  
 RT: 26.608 min Scan# 5840  
 Delta R.T. -0.013 min  
 Lab File: BN025988.D  
 Acq: 24 Jun 2023 03:33



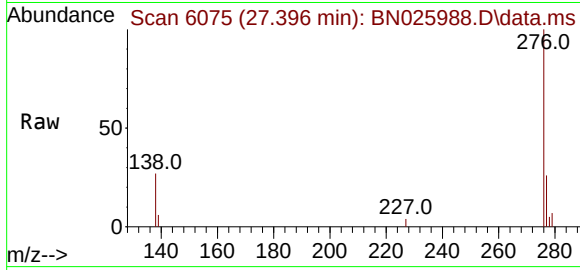
Tgt Ion:278 Resp: 6728  
 Ion Ratio Lower Upper  
 278 100  
 139 37.3 19.0 28.4#  
 279 50.7 26.7 40.1#





#29  
 Benzo(g,h,i)perylene  
 Concen: 0.376 ng/ul  
 RT: 27.396 min Scan# 6064  
 Delta R.T. 0.010 min  
 Lab File: BN025988.D  
 Acq: 24 Jun 2023 03:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFL3DL



Tgt Ion: 276 Resp: 2736

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 27.3  | 23.4  | 35.0  |
| 277 | 26.5  | 20.0  | 30.0  |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/24/2023  
 Supervised By :mohammad ahmed 06/25/2023

