

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062223\  
 Data File : BN025953.D  
 Acq On : 23 Jun 2023 00:36  
 Operator : MA/JU  
 Sample : 03083-05DL 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFK3DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/23/2023  
 Supervised By :mohammad ahmed 06/23/2023

Quant Time: Jun 23 01:06:02 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   | 7.980  | 152  | 8797     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.791 | 136  | 27304    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.616 | 164  | 16212    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.363 | 188  | 32350    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.543 | 240  | 16484    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.004 | 264  | 15923    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.335  | 96   | 6651     | 0.671 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.386 | 152  | 1912     | 0.046 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.386 | 212  | 3721     | 0.059 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.840 | 128  | 3468     | 0.044 | ng/ul# | 91       |
| 7) 2-Methylnaphthalene      | 12.457 | 142  | 2078     | 0.042 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.672 | 142  | 1434     | 0.028 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.339 | 152  | 1616     | 0.021 | ng/ul# | 81       |
| 11) Acenaphthene            | 14.681 | 153  | 1318     | 0.021 | ng/ul  | 98       |
| 15) Phenanthrene            | 17.401 | 178  | 42337    | 0.396 | ng/ul  | 100      |
| 16) Anthracene              | 17.494 | 178  | 5187     | 0.055 | ng/ul# | 92       |
| 19) Fluoranthene            | 19.414 | 202  | 86671    | 0.984 | ng/ul  | 100      |
| 20) Pyrene                  | 19.776 | 202  | 70220    | 0.767 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.525 | 228  | 28879    | 0.425 | ng/ul  | 97       |
| 22) Chrysene                | 21.581 | 228  | 34902    | 0.493 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.250 | 252  | 46777m   | 0.688 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.291 | 252  | 15359m   | 0.225 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.890 | 252  | 27799    | 0.471 | ng/ul  | 97       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.570 | 276  | 22096    | 0.343 | ng/ul# | 86       |
| 28) Dibenzo(a,h)anthracene  | 26.577 | 278  | 5523     | 0.113 | ng/ul# | 72       |
| 29) Benzo(g,h,i)perylene    | 27.352 | 276  | 22851    | 0.398 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

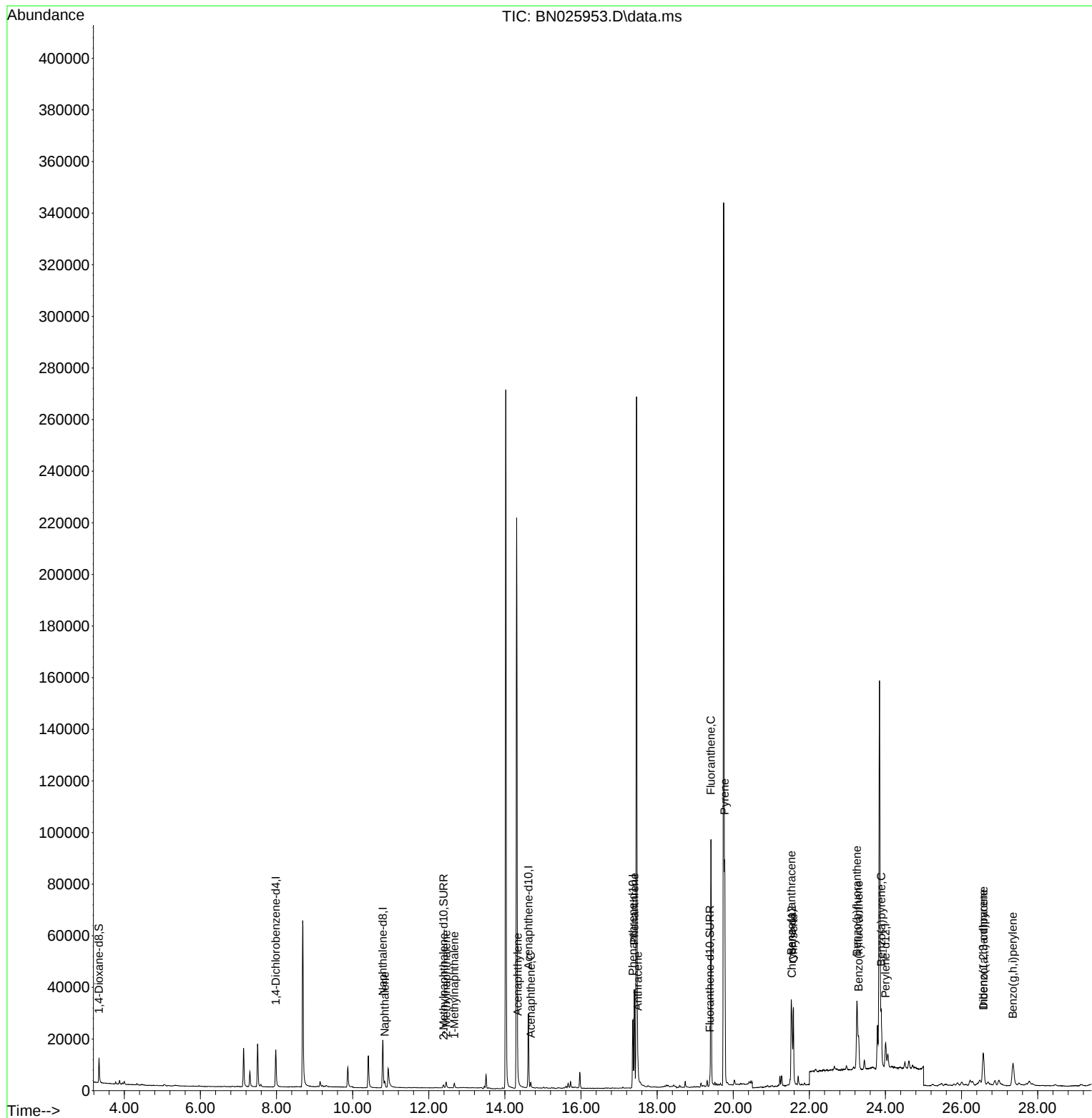
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062223\  
Data File : BN025953.D  
Acq On : 23 Jun 2023 00:36  
Operator : MA/JU  
Sample : 03083-05DL 5X  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

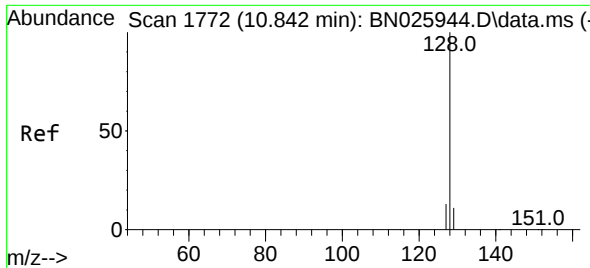
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

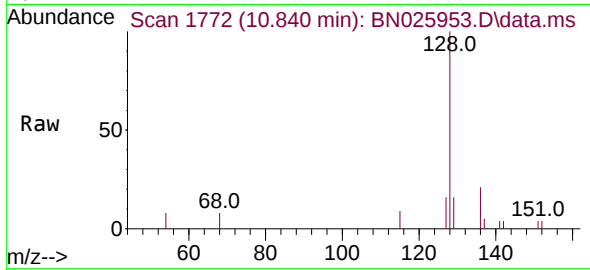
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 22 01:27:41 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.044 ng/ul  
RT: 10.840 min Scan# 1772  
Delta R.T. -0.007 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

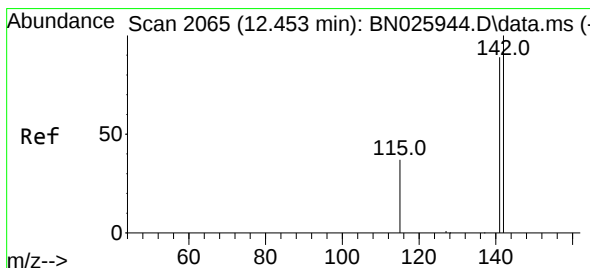
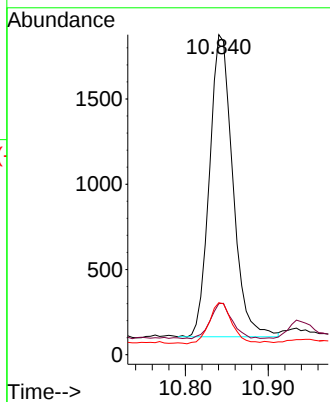
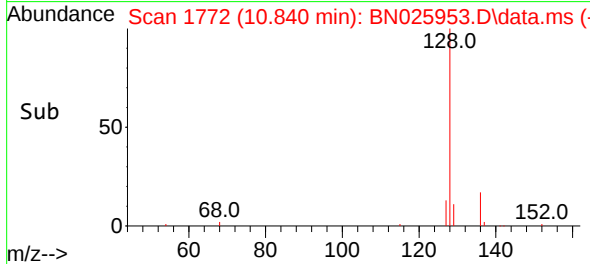
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



Tgt Ion:128 Resp: 3468  
Ion Ratio Lower Upper  
128 100  
129 16.0 9.1 13.7  
127 16.2 10.7 16.1

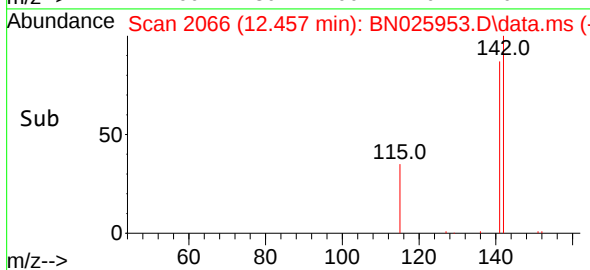
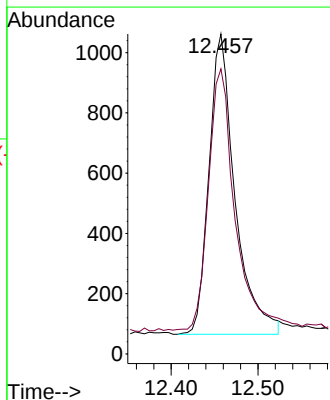
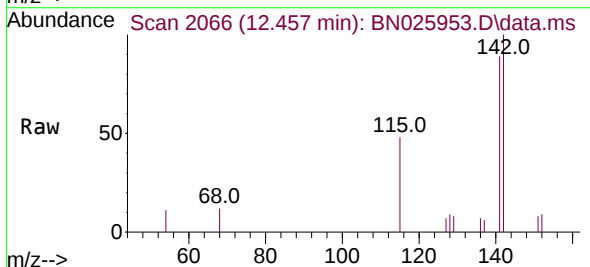
Manual Integrations  
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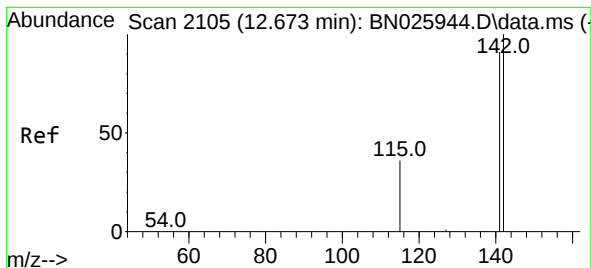
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#7  
2-Methylnaphthalene  
Concen: 0.042 ng/ul  
RT: 12.457 min Scan# 2066  
Delta R.T. 0.004 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

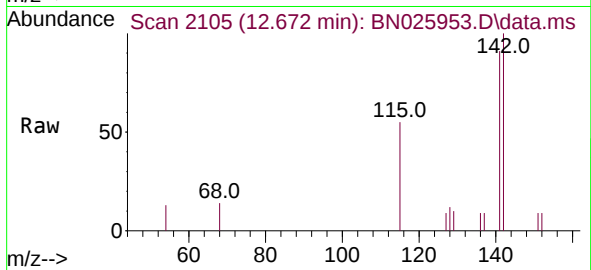
Tgt Ion:142 Resp: 2078  
Ion Ratio Lower Upper  
142 100  
141 87.9 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.028 ng/ul  
RT: 12.672 min Scan# 2105  
Delta R.T. -0.001 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

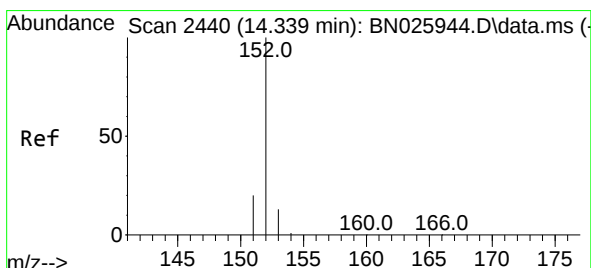
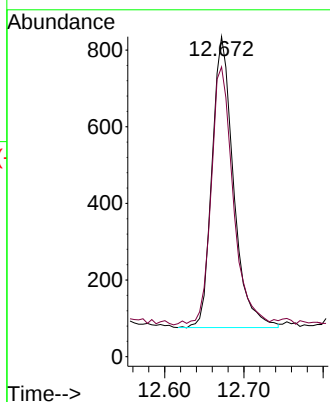
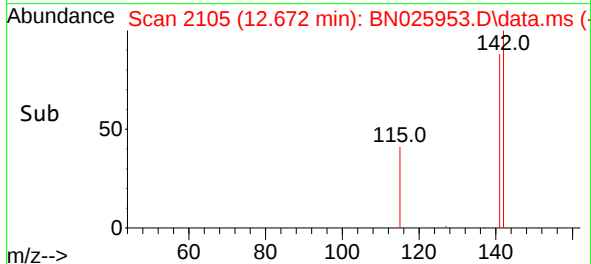
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



Tgt Ion:142 Resp: 1434  
Ion Ratio Lower Upper  
142 100  
141 90.9 74.2 111.4

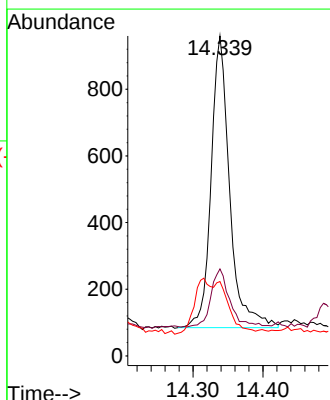
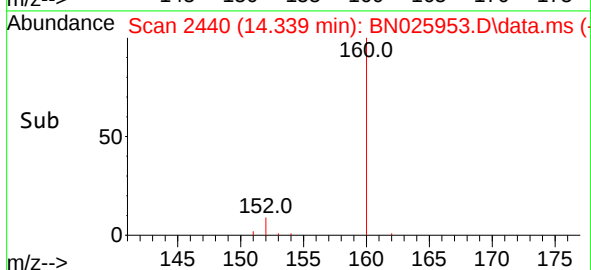
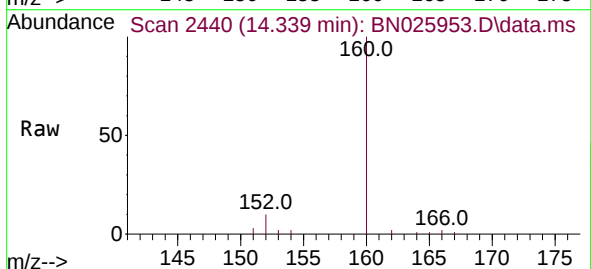
Manual Integrations  
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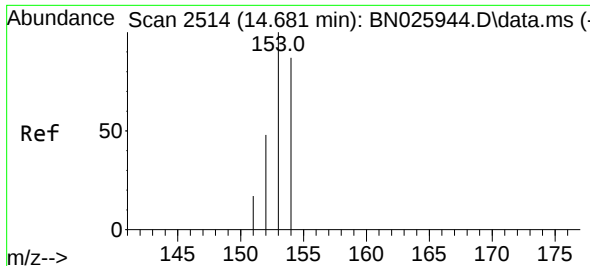
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#10  
Acenaphthylene  
Concen: 0.021 ng/ul  
RT: 14.339 min Scan# 2440  
Delta R.T. -0.005 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

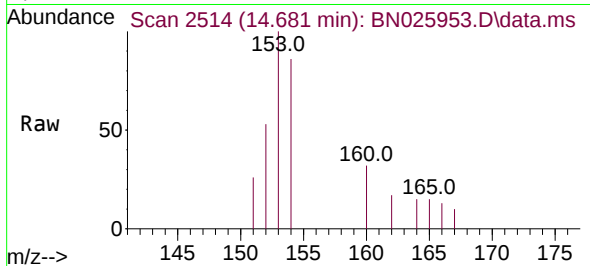
Tgt Ion:152 Resp: 1616  
Ion Ratio Lower Upper  
152 100  
151 27.2 16.2 24.4#  
153 23.2 10.9 16.3#





#11  
Acenaphthene  
Concen: 0.021 ng/u1  
RT: 14.681 min Scan# 2514  
Delta R.T. -0.000 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

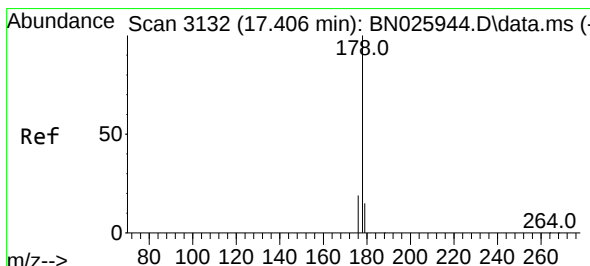
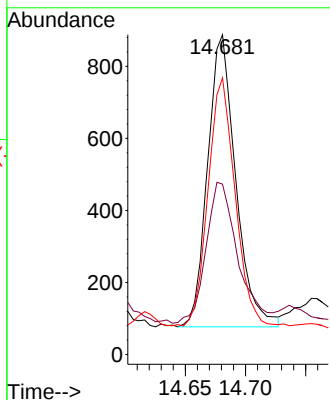
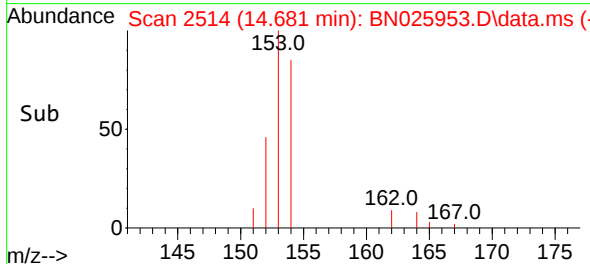
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



Tgt Ion:153 Resp: 1318  
Ion Ratio Lower Upper  
153 100  
152 53.3 39.4 59.0  
154 86.5 68.9 103.3

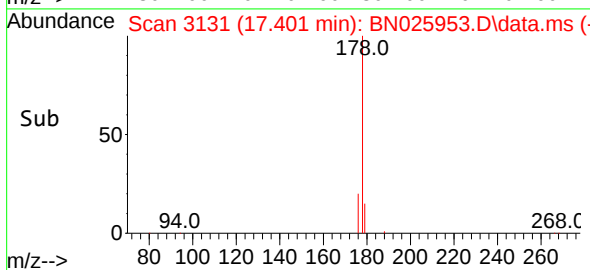
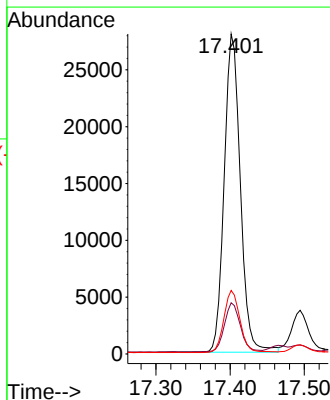
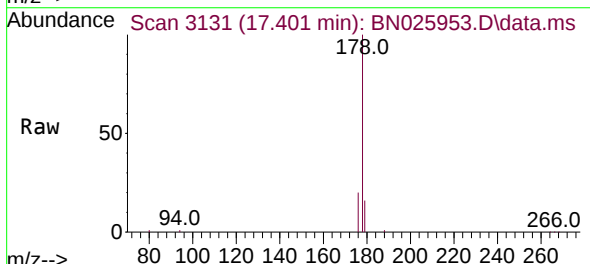
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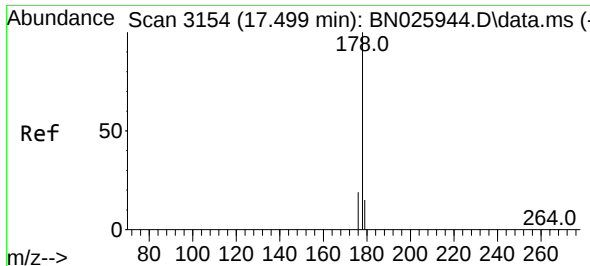
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023



#15  
Phenanthrene  
Concen: 0.396 ng/u1  
RT: 17.401 min Scan# 3131  
Delta R.T. -0.005 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

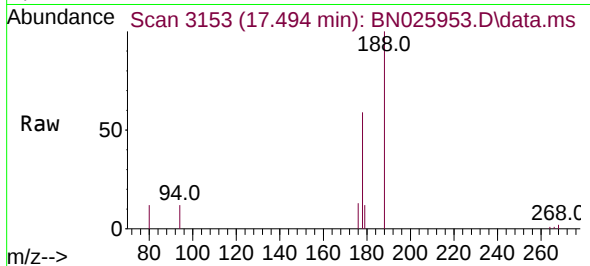
Tgt Ion:178 Resp: 42337  
Ion Ratio Lower Upper  
178 100  
179 16.0 12.6 19.0  
176 19.9 15.8 23.6





#16  
 Anthracene  
 Concen: 0.055 ng/ul  
 RT: 17.494 min Scan# 3154  
 Delta R.T. -0.005 min  
 Lab File: BN025953.D  
 Acq: 23 Jun 2023 00:36

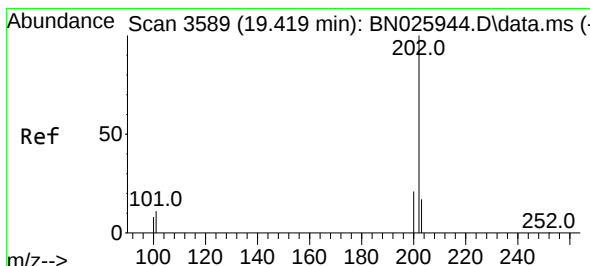
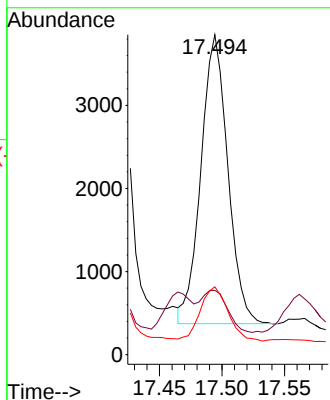
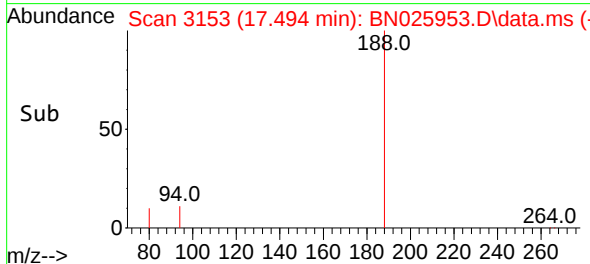
Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFK3DL



Tgt Ion:178 Resp: 518  
 Ion Ratio Lower Upper  
 178 100  
 179 20.1 12.6 18.8  
 176 21.2 15.1 22.7

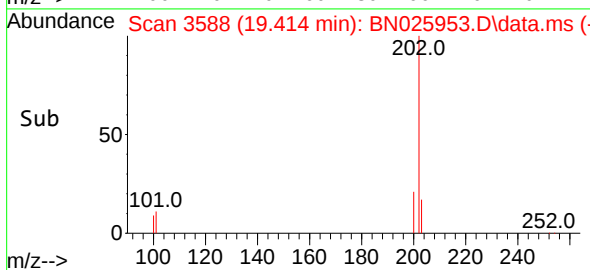
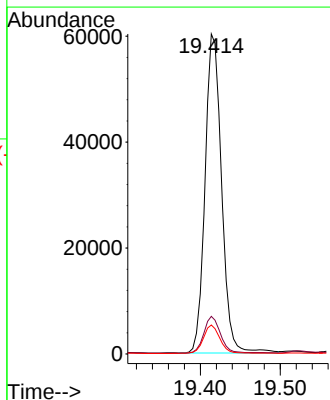
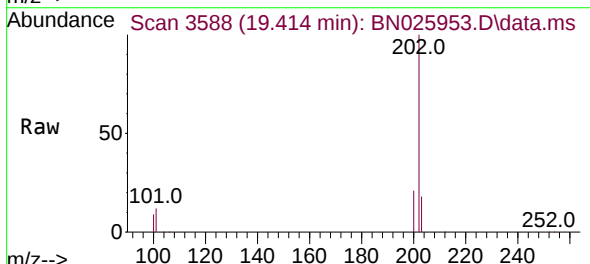
Manual Integrations  
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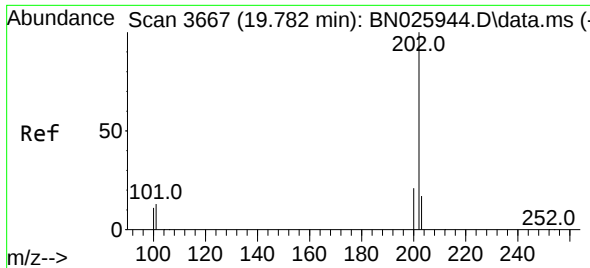
Reviewed By :Yogesh Patel 06/23/2023  
 Supervised By :mohammad ahmed 06/23/2023



#19  
 Fluoranthene  
 Concen: 0.984 ng/ul  
 RT: 19.414 min Scan# 3588  
 Delta R.T. -0.005 min  
 Lab File: BN025953.D  
 Acq: 23 Jun 2023 00:36

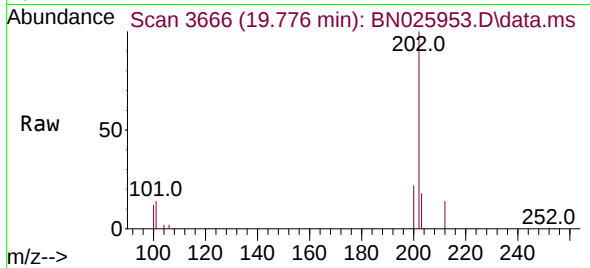
Tgt Ion:202 Resp: 86671  
 Ion Ratio Lower Upper  
 202 100  
 101 11.8 9.5 14.3  
 100 9.1 7.3 10.9





#20  
Pyrene  
Concen: 0.767 ng/ul  
RT: 19.776 min Scan# 3666  
Delta R.T. -0.005 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

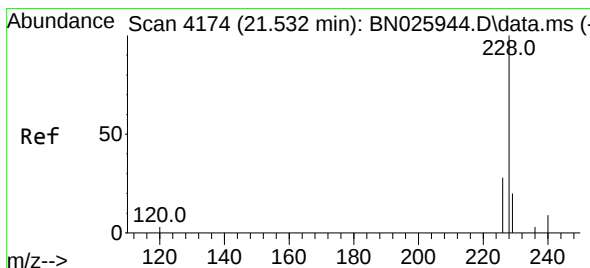
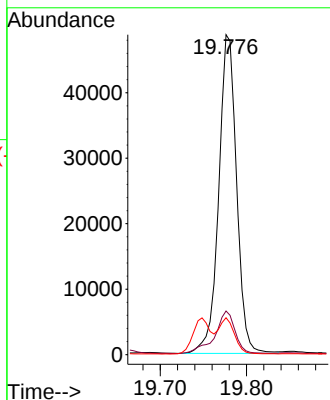
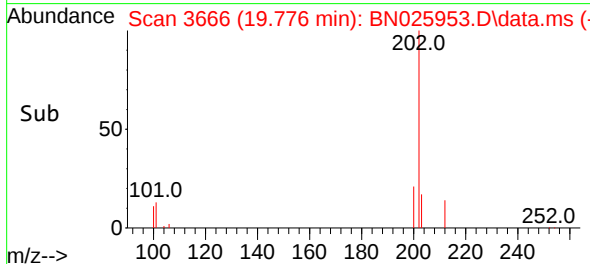
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



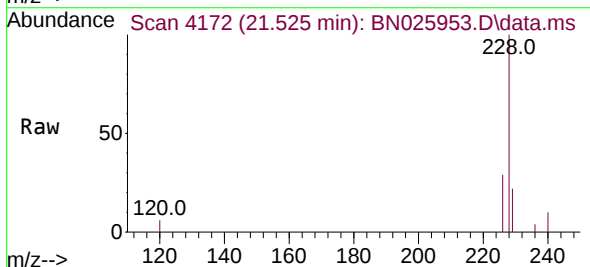
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101 13.7 11.4 17.0  
100 11.5 9.1 13.7

Manual Integrations  
APPROVED

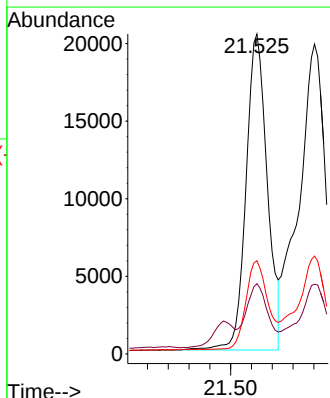
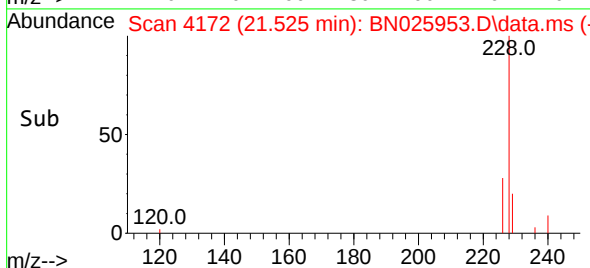
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

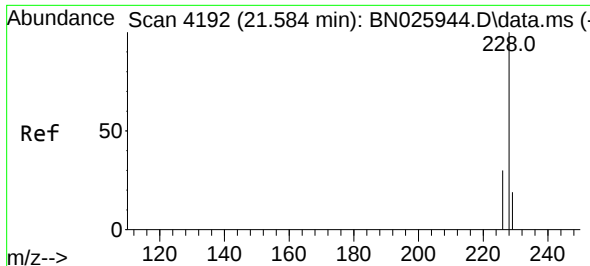


#21  
Benzo(a)anthracene  
Concen: 0.425 ng/ul  
RT: 21.525 min Scan# 4172  
Delta R.T. -0.007 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36



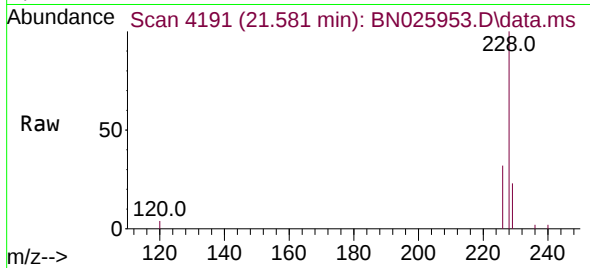
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Ion Ratio Lower Upper  
228 100  
229 21.9 15.8 23.6  
226 29.2 22.5 33.7





#22  
Chrysene  
Concen: 0.493 ng/ul  
RT: 21.581 min Scan# 4191  
Delta R.T. -0.004 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

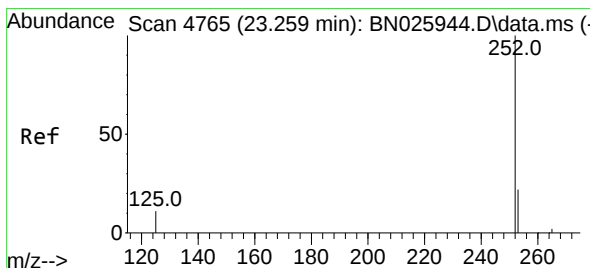
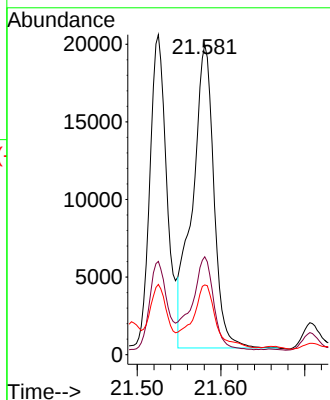
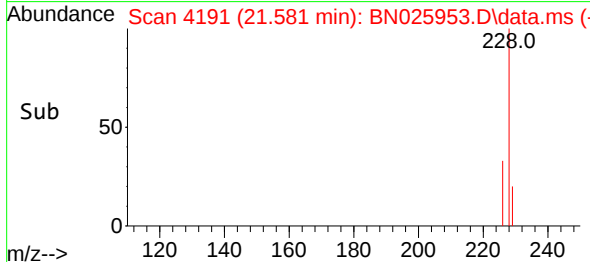
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



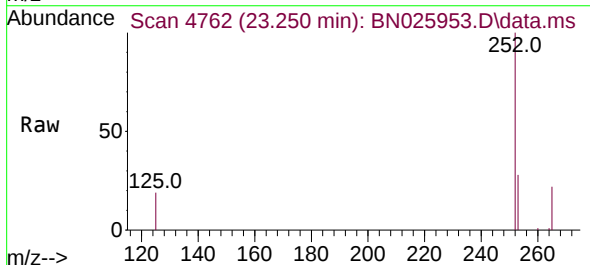
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229 22.5 15.7 23.5

Manual Integrations  
APPROVED

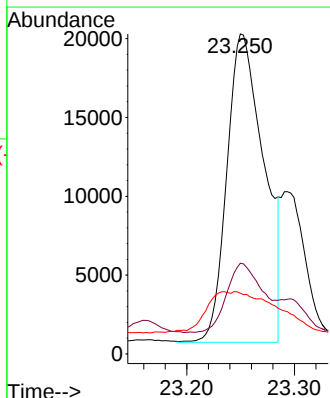
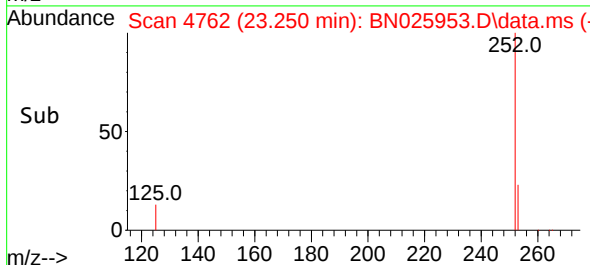
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

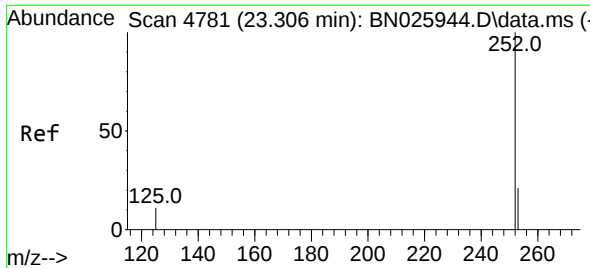


#24  
Benzo(b)fluoranthene  
Concen: 0.688 ng/ul m  
RT: 23.250 min Scan# 4762  
Delta R.T. -0.007 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36



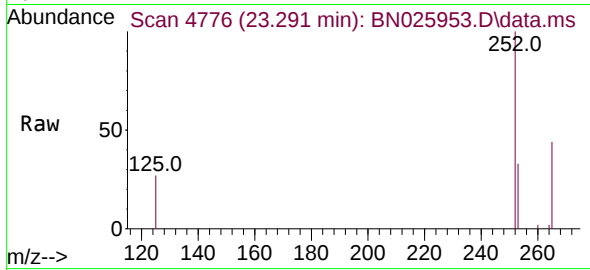
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Ion Ratio Lower Upper  
252 100  
253 28.4 0.0 55.6  
125 19.0 0.0 35.8





#25  
Benzo(k)fluoranthene  
Concen: 0.225 ng/ul m  
RT: 23.291 min Scan# 4776  
Delta R.T. -0.018 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

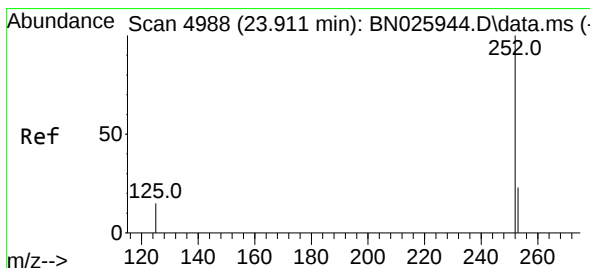
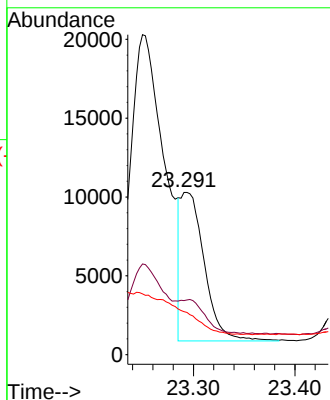
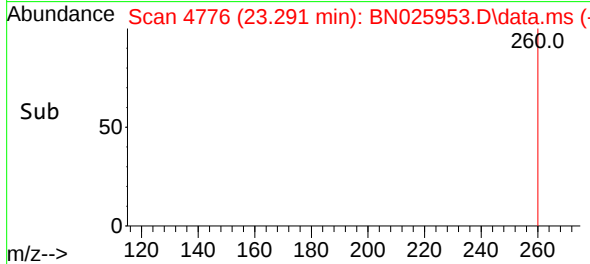
Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



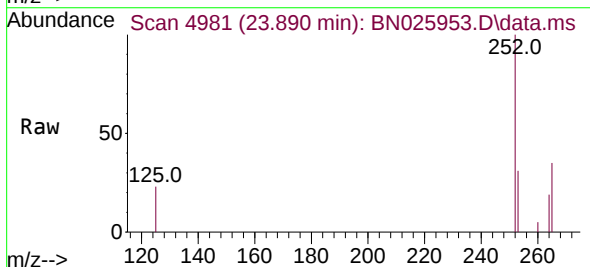
Tgt Ion:252 Resp: 15359  
Ion Ratio Lower Upper  
252 100  
253 33.3 23.2 34.8  
125 26.5 15.0 22.4

Manual Integrations  
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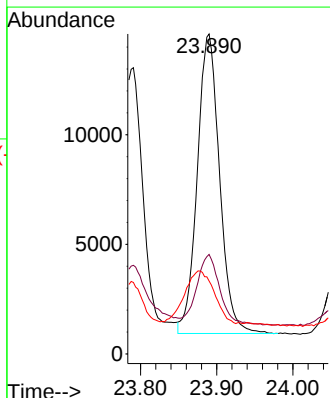
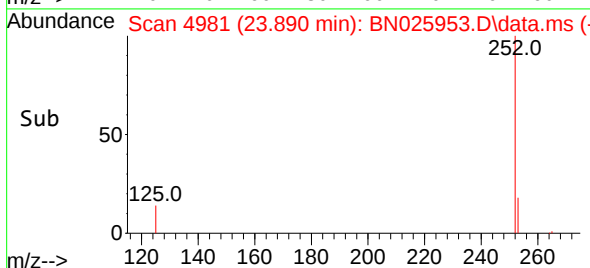
Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

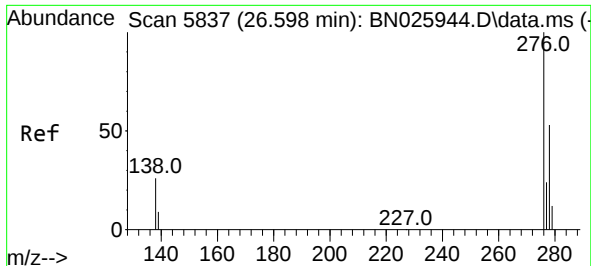


#26  
Benzo(a)pyrene  
Concen: 0.471 ng/ul  
RT: 23.890 min Scan# 4981  
Delta R.T. -0.018 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36



Tgt Ion:252 Resp: 27799  
Ion Ratio Lower Upper  
252 100  
253 31.1 26.0 39.0  
125 22.8 17.3 25.9





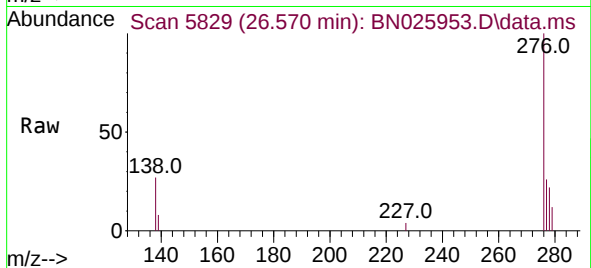
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.343 ng/ul  
RT: 26.570 min Scan# 5829  
Delta R.T. -0.024 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

Instrument :

BNA\_N

ClientSampleId :

DCFK3DL



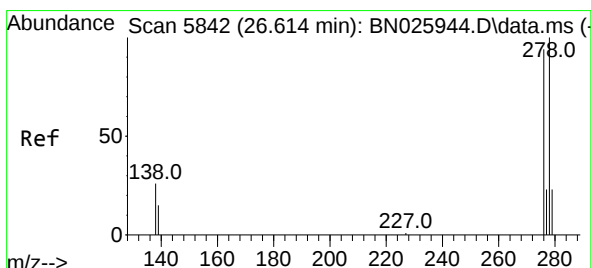
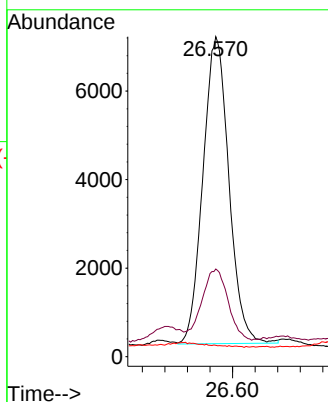
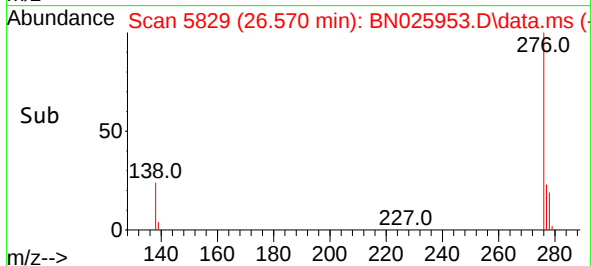
Tgt Ion:276 Resp: 22090  
Ion Ratio Lower Upper  
276 100  
138 23.2 24.5 36.7#  
227 0.0 0.0 0.0

Manual Integrations

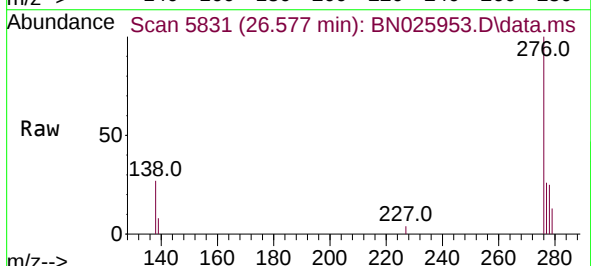
APPROVED

Reviewed By :Yogesh Patel 06/23/2023

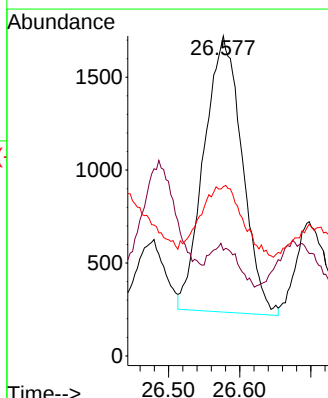
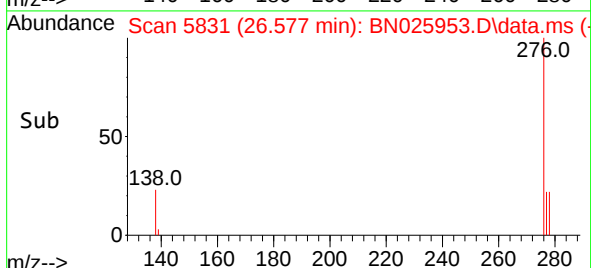
Supervised By :mohammad ahmed 06/23/2023

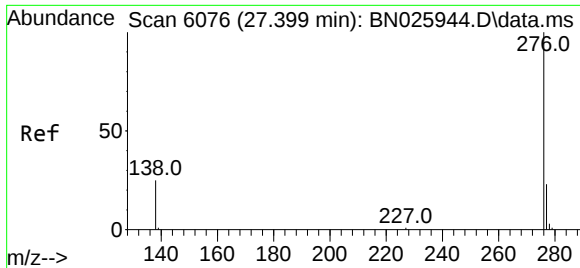


#28  
Dibenzo(a,h)anthracene  
Concen: 0.113 ng/ul  
RT: 26.577 min Scan# 5831  
Delta R.T. -0.044 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36



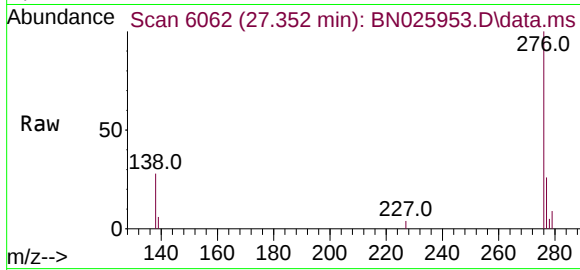
Tgt Ion:278 Resp: 5523  
Ion Ratio Lower Upper  
278 100  
139 33.0 19.0 28.4#  
279 52.9 26.7 40.1#





#29  
Benzo(g,h,i)perylene  
Concen: 0.398 ng/ul  
RT: 27.352 min Scan# 6062  
Delta R.T. -0.034 min  
Lab File: BN025953.D  
Acq: 23 Jun 2023 00:36

Instrument :  
BNA\_N  
ClientSampleId :  
DCFK3DL



Tgt Ion:276 Resp: 2285  
Ion Ratio Lower Upper  
276 100  
138 28.0 23.4 35.0  
277 26.1 20.0 30.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/23/2023  
Supervised By :mohammad ahmed 06/23/2023

