

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062923\  
 Data File : BN026085.D  
 Acq On : 29 Jun 2023 09:01  
 Operator : MA/JU  
 Sample : 03142-03DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 DCFS2DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/29/2023  
 Supervised By :mohammad ahmed 06/30/2023

Quant Time: Jun 29 09:38:24 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 : Wed Jun 28 22:47:20 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.968  | 152  | 7281     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.780 | 136  | 24610    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.607 | 164  | 14921    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.355 | 188  | 30061    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.540 | 240  | 17286    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.992 | 264  | 16106    | 0.400 | ng/ul  | -0.02    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.327  | 96   | 2378     | 0.290 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.369 | 152  | 984      | 0.026 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.377 | 212  | 2125     | 0.032 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.829 | 128  | 5046     | 0.072 | ng/ul# | 94       |
| 7) 2-Methylnaphthalene      | 12.446 | 142  | 3178     | 0.071 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.661 | 142  | 2237     | 0.048 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.329 | 152  | 5458     | 0.078 | ng/ul# | 94       |
| 11) Acenaphthene            | 14.667 | 153  | 2154     | 0.038 | ng/ul  | 97       |
| 12) Fluorene                | 15.657 | 166  | 1994     | 0.030 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.393 | 178  | 64159    | 0.646 | ng/ul  | 99       |
| 16) Anthracene              | 17.486 | 178  | 11696    | 0.133 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.409 | 202  | 170045   | 1.842 | ng/ul  | 97       |
| 20) Pyrene                  | 19.772 | 202  | 145775   | 1.518 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.525 | 228  | 59008    | 0.827 | ng/ul  | 98       |
| 22) Chrysene                | 21.578 | 228  | 71538    | 0.964 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.247 | 252  | 99079m   | 1.441 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.288 | 252  | 32971m   | 0.478 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.884 | 252  | 57135    | 0.957 | ng/ul# | 89       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.550 | 276  | 45936    | 0.704 | ng/ul# | 88       |
| 28) Dibenzo(a,h)anthracene  | 26.560 | 278  | 11002    | 0.223 | ng/ul# | 91       |
| 29) Benzo(g,h,i)perylene    | 27.345 | 276  | 44870    | 0.773 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

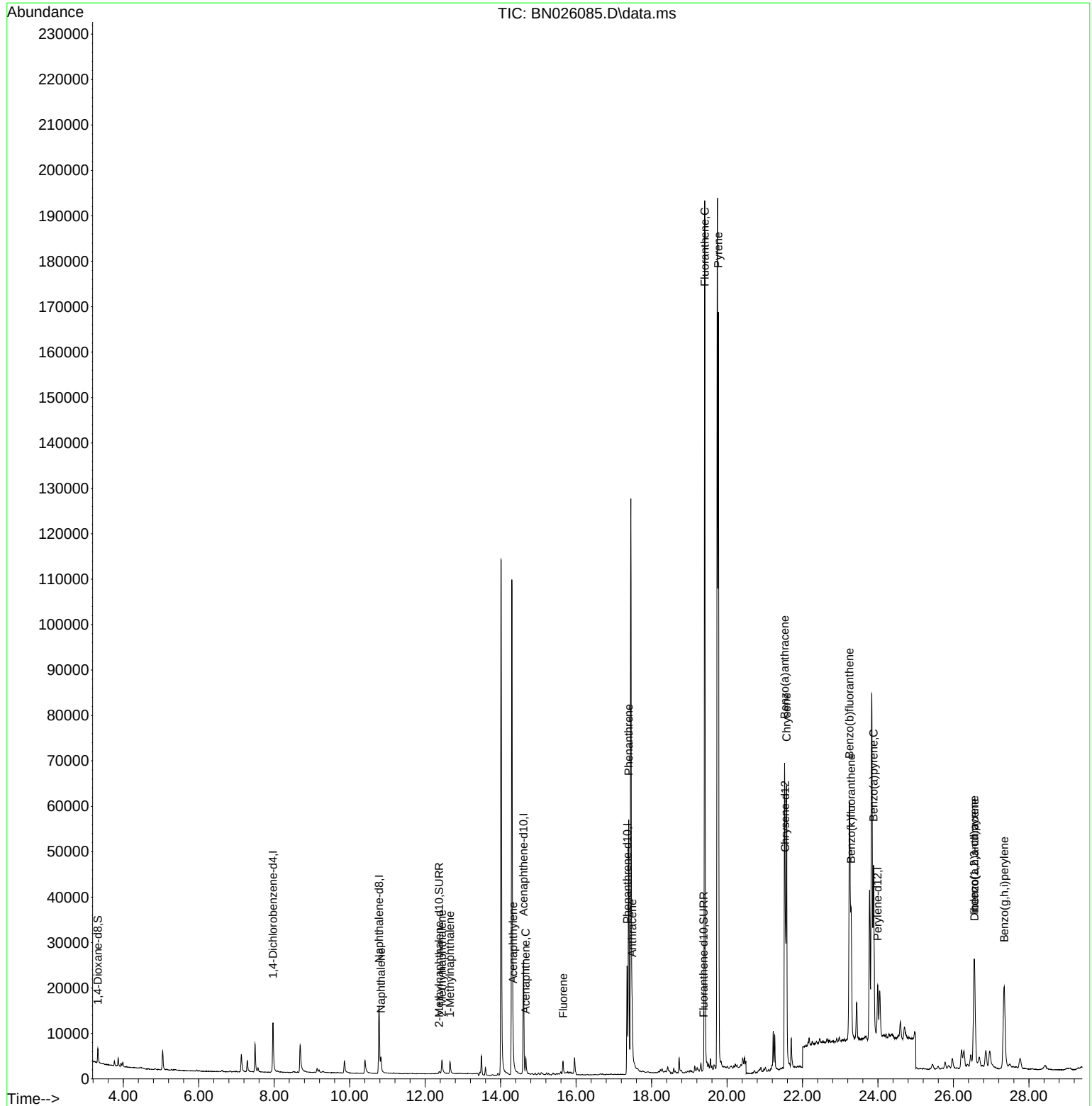
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN062923\  
Data File : BN026085.D  
Acq On : 29 Jun 2023 09:01  
Operator : MA/JU  
Sample : 03142-03DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

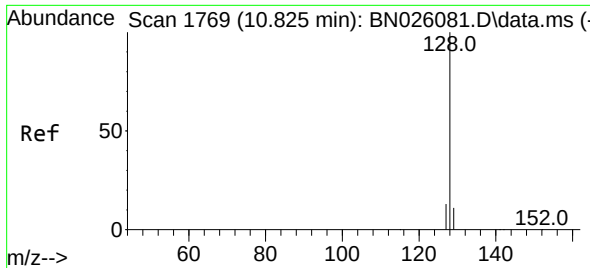
Instrument :  
BNA\_N  
ClientSampleId :  
DCFS2DL

Quant Time: Jun 29 09:38:24 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 : Wed Jun 28 22:47:20 2023  
Response via : Initial Calibration

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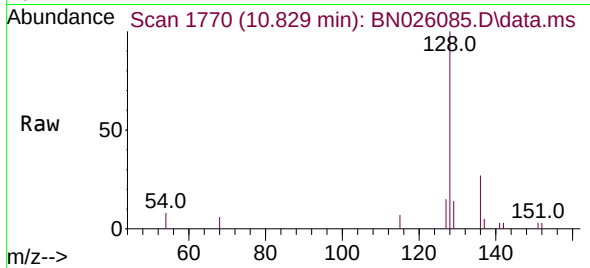
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023





#5  
Naphthalene  
Concen: 0.072 ng/ul  
RT: 10.829 min Scan# 1769  
Delta R.T. -0.007 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

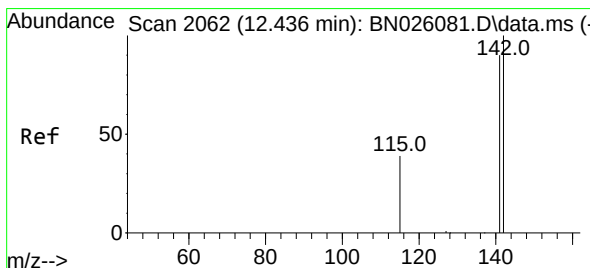
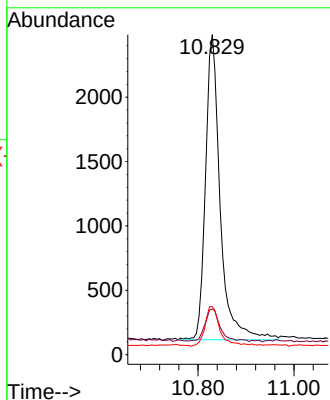
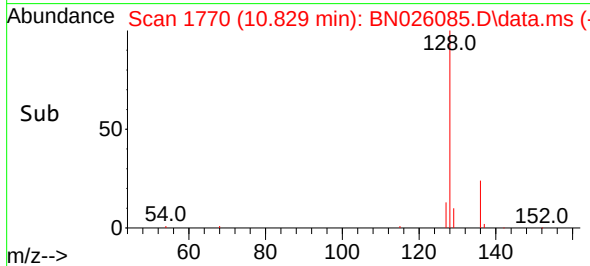
Instrument :  
BNA\_N  
ClientSampleId :  
DCFS2DL



Tgt Ion:128 Resp: 5040  
Ion Ratio Lower Upper  
128 100  
129 14.2 9.1 13.7  
127 15.0 10.7 16.1

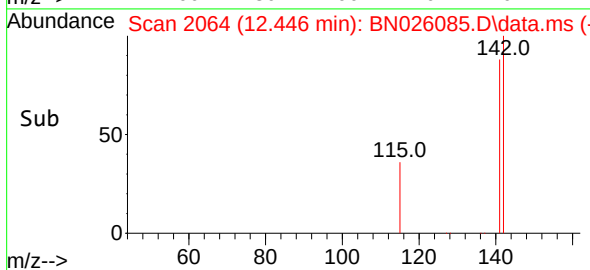
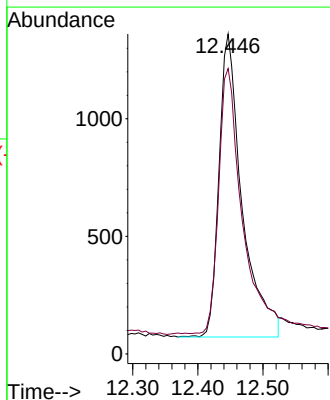
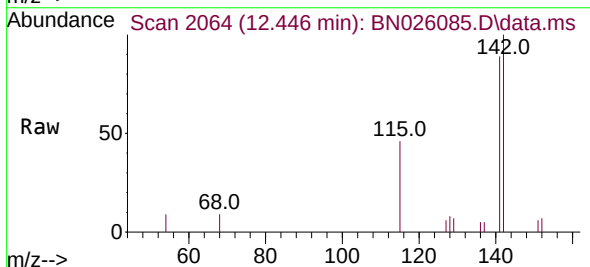
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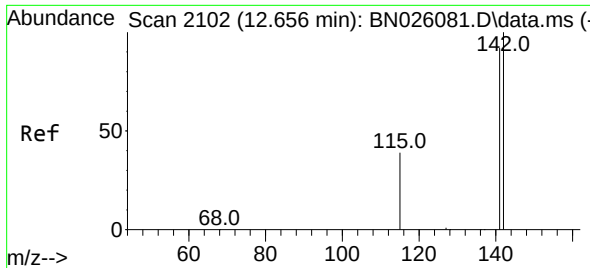
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023



#7  
2-Methylnaphthalene  
Concen: 0.071 ng/ul  
RT: 12.446 min Scan# 2064  
Delta R.T. -0.001 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

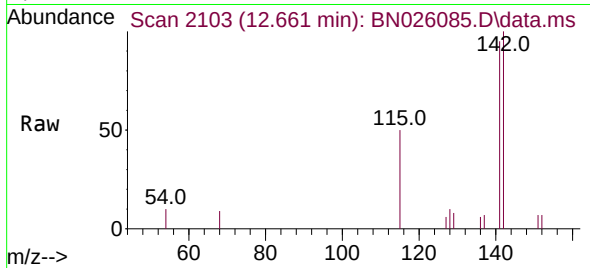
Tgt Ion:142 Resp: 3178  
Ion Ratio Lower Upper  
142 100  
141 88.4 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.048 ng/ul  
RT: 12.661 min Scan# 2102  
Delta R.T. -0.001 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

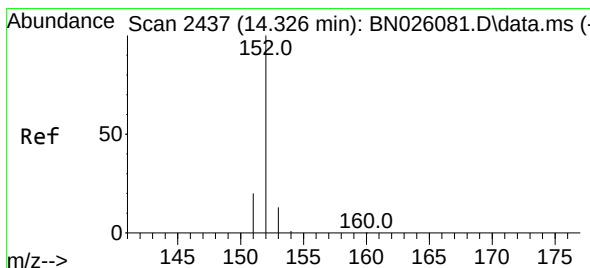
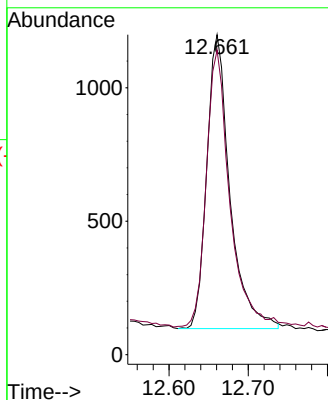
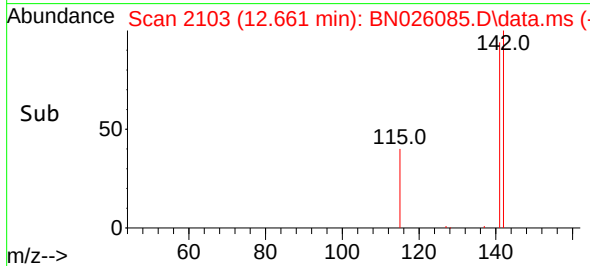
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BNA\_N  
ClientSampleId :  
DCFS2DL



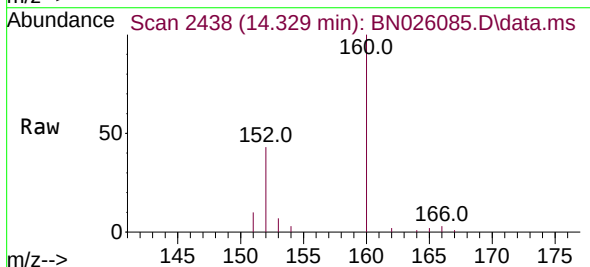
Tgt Ion:142 Resp: 223  
Ion Ratio Lower Upper  
142 100  
141 94.8 74.2 111.4

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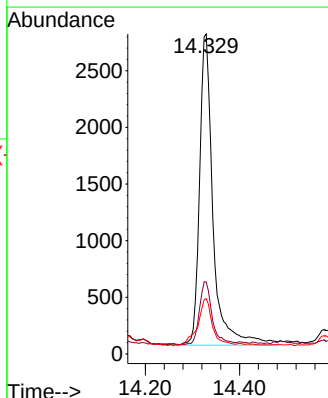
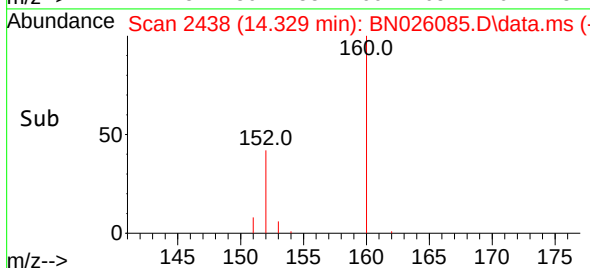
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023

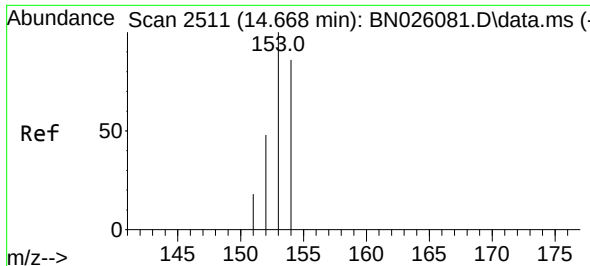


#10  
Acenaphthylene  
Concen: 0.078 ng/ul  
RT: 14.329 min Scan# 2438  
Delta R.T. -0.000 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01



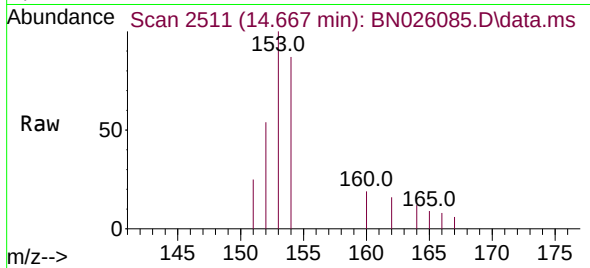
Tgt Ion:152 Resp: 5458  
Ion Ratio Lower Upper  
152 100  
151 22.5 16.2 24.4  
153 17.3 10.9 16.3#





#11  
Acenaphthene  
Concen: 0.038 ng/ul  
RT: 14.667 min Scan# 2154  
Delta R.T. -0.005 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

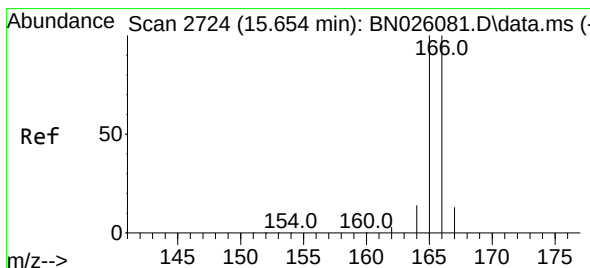
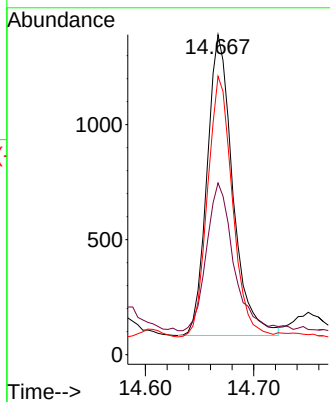
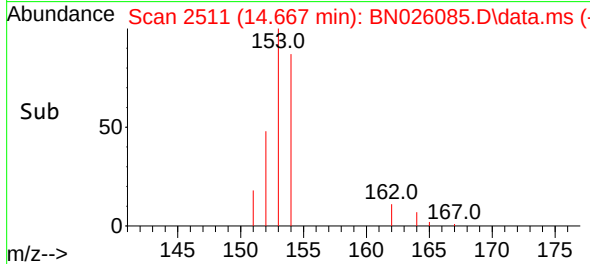
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BNA\_N  
ClientSampleId :  
DCFS2DL



Tgt Ion:153 Resp: 2154  
Ion Ratio Lower Upper  
153 100  
152 53.6 39.4 59.0  
154 87.0 68.9 103.3

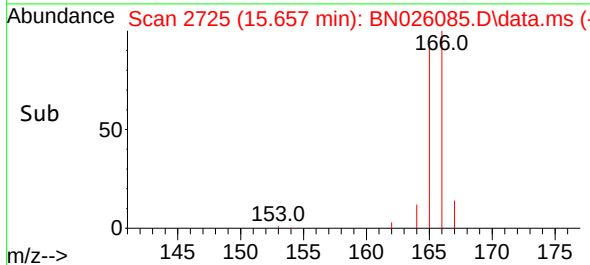
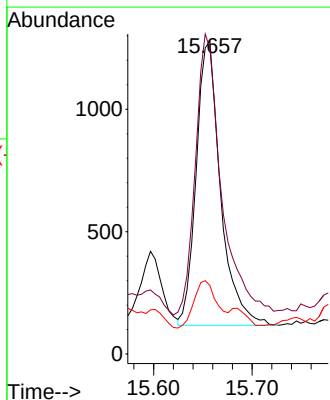
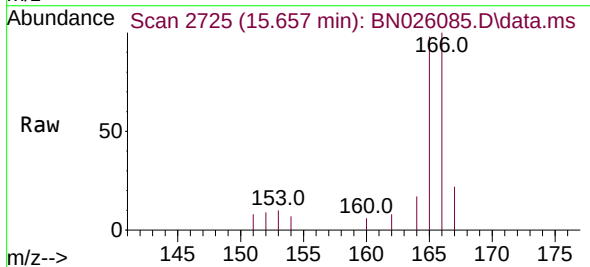
Manual Integrations  
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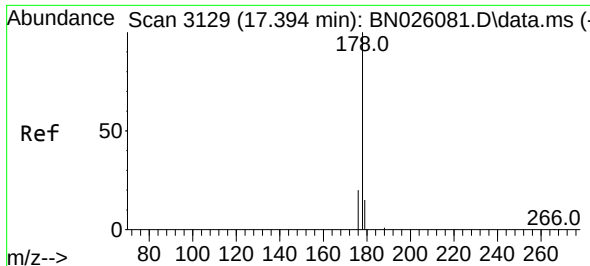
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023



#12  
Fluorene  
Concen: 0.030 ng/ul  
RT: 15.657 min Scan# 2725  
Delta R.T. -0.005 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

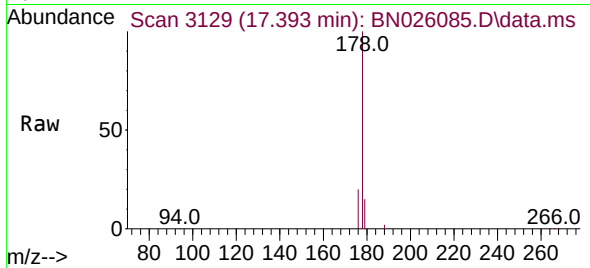
Tgt Ion:166 Resp: 1994  
Ion Ratio Lower Upper  
166 100  
165 97.7 79.9 119.9  
167 21.9 10.8 16.2#





#15  
Phenanthrene  
Concen: 0.646 ng/ul  
RT: 17.393 min Scan# 3129  
Delta R.T. -0.009 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

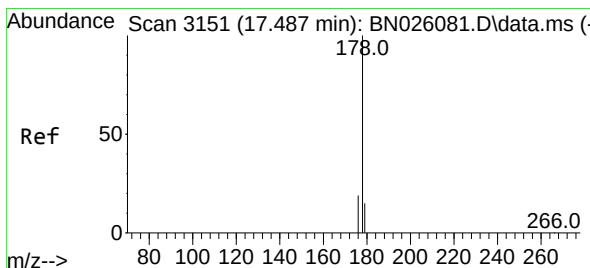
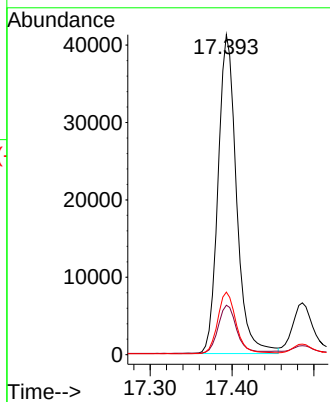
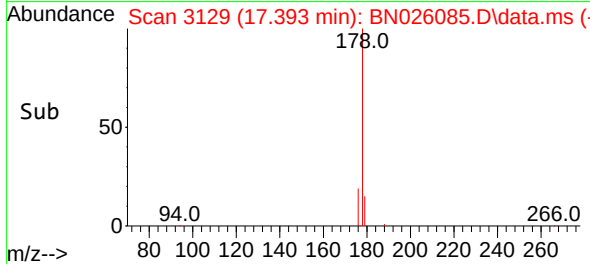
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BNA\_N  
ClientSampleId :  
DCFS2DL



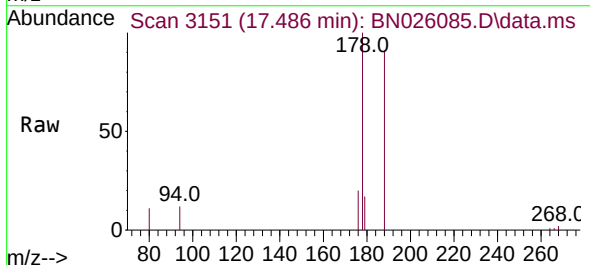
Tgt Ion:178 Resp: 64159  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.6 19.0  
176 19.6 15.8 23.6

Manual Integrations  
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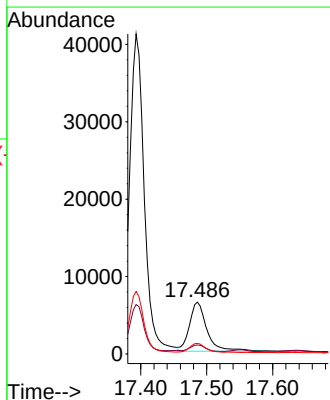
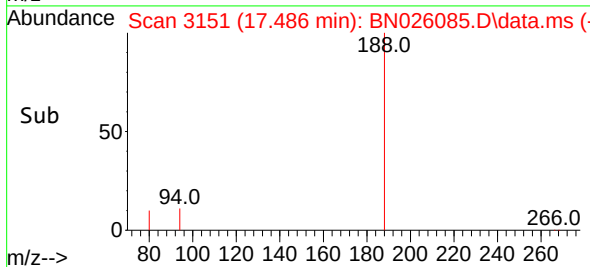
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023

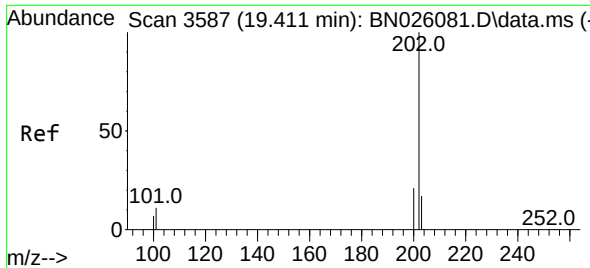


#16  
Anthracene  
Concen: 0.133 ng/ul  
RT: 17.486 min Scan# 3151  
Delta R.T. -0.009 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01



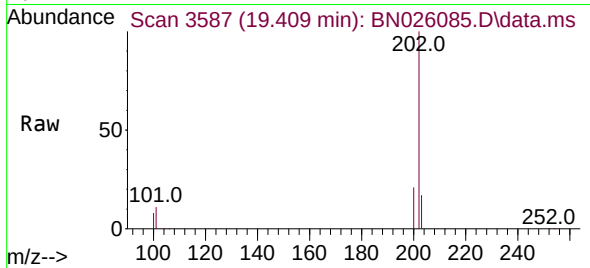
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Ion Ratio Lower Upper  
178 100  
179 17.5 12.6 18.8  
176 20.3 15.1 22.7





#19  
Fluoranthene  
Concen: 1.842 ng/ul  
RT: 19.409 min Scan# 3587  
Delta R.T. -0.005 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

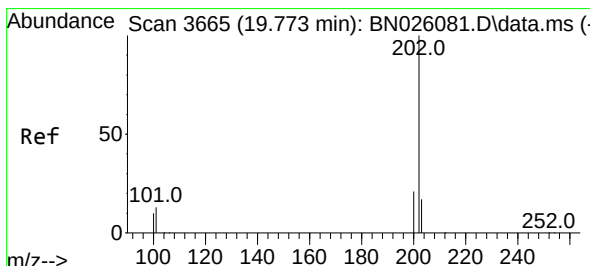
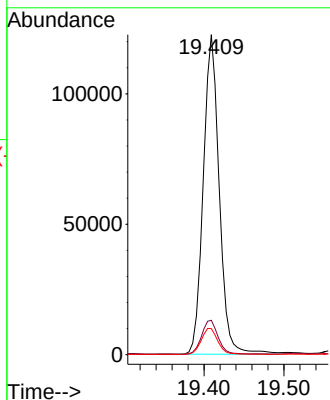
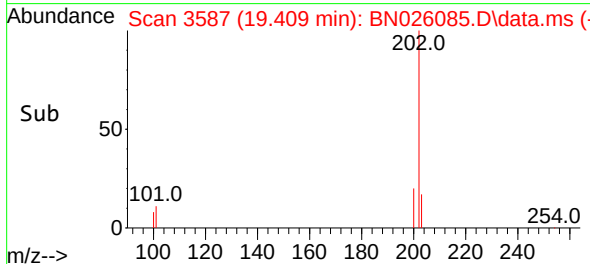
Instrument :  
BNA\_N  
ClientSampleId :  
DCFS2DL



Tgt Ion:202 Resp: 170045  
Ion Ratio Lower Upper  
202 100  
101 10.8 9.5 14.3  
100 8.2 7.3 10.9

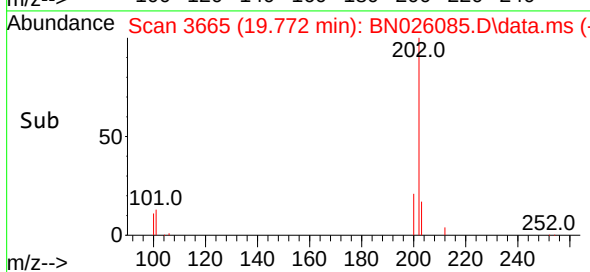
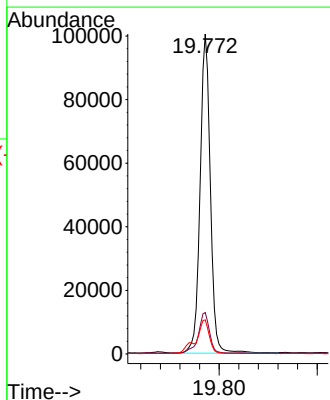
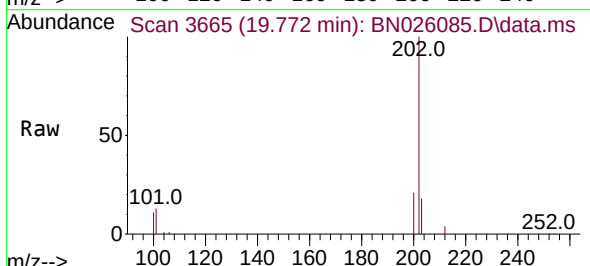
Manual Integrations  
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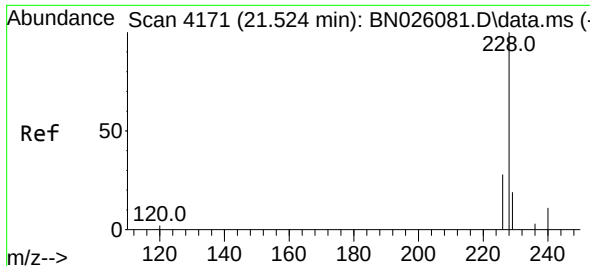
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023



#20  
Pyrene  
Concen: 1.518 ng/ul  
RT: 19.772 min Scan# 3665  
Delta R.T. -0.005 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

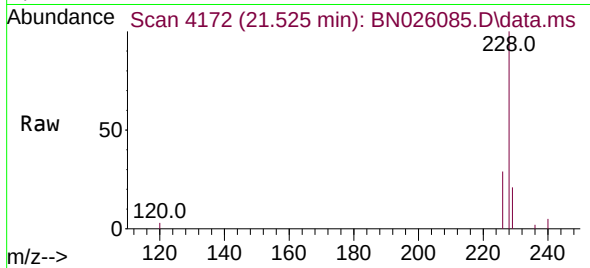
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Ion Ratio Lower Upper  
202 100  
101 13.0 11.4 17.0  
100 10.6 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 0.827 ng/ul  
RT: 21.525 min Scan# 4171  
Delta R.T. -0.004 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

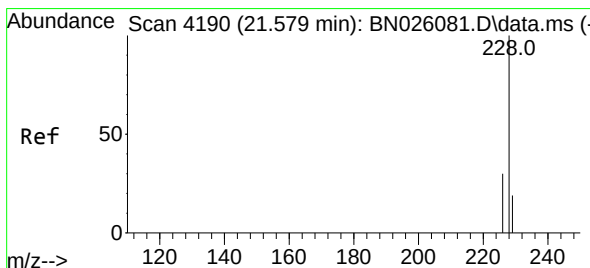
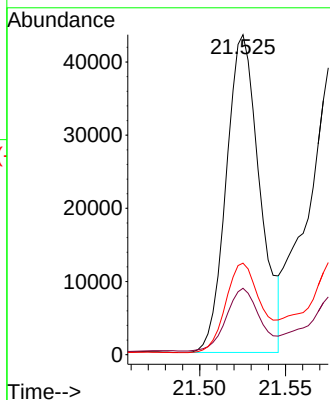
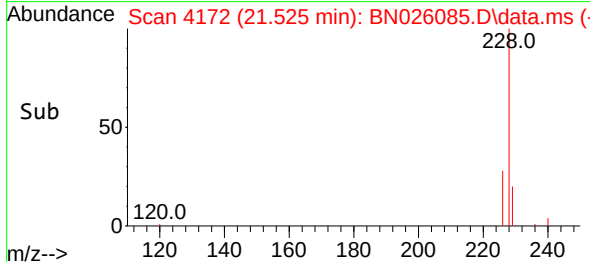
Instrument :  
BNA\_N  
ClientSampleId :  
DCFS2DL



Tgt Ion:228 Resp: 59008  
Ion Ratio Lower Upper  
228 100  
229 20.8 15.8 23.6  
226 28.6 22.5 33.7

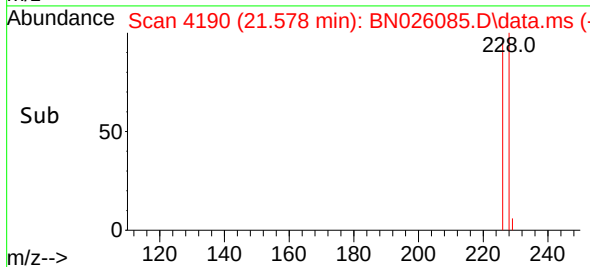
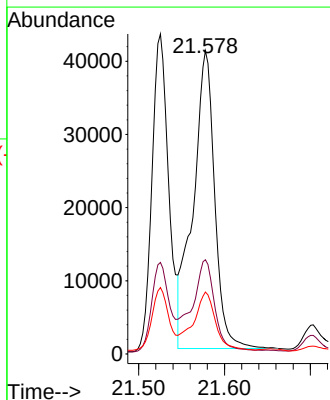
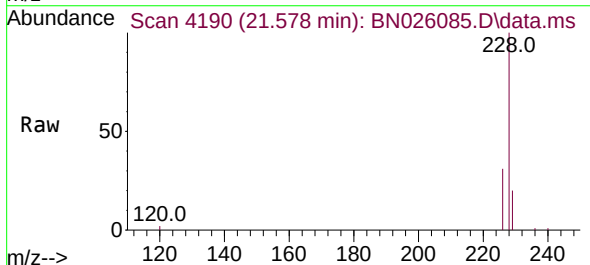
Manual Integrations  
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Supervised By :mohammad ahmed 06/30/2023

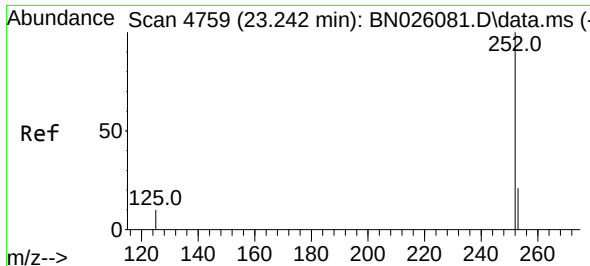


#22  
Chrysene  
Concen: 0.964 ng/ul  
RT: 21.578 min Scan# 4190  
Delta R.T. -0.001 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

Tgt Ion:228 Resp: 71538  
Ion Ratio Lower Upper  
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226 31.1 24.8 37.2  
229 20.4 15.7 23.5

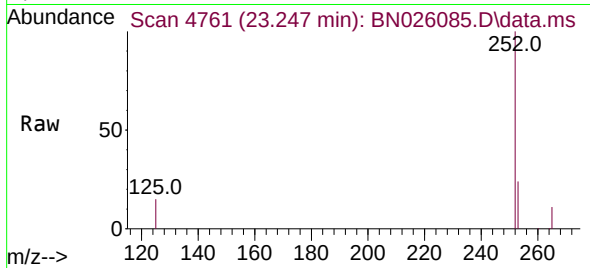






#24  
Benzo(b)fluoranthene  
Concen: 1.441 ng/ul m  
RT: 23.247 min Scan# 4761  
Delta R.T. -0.006 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

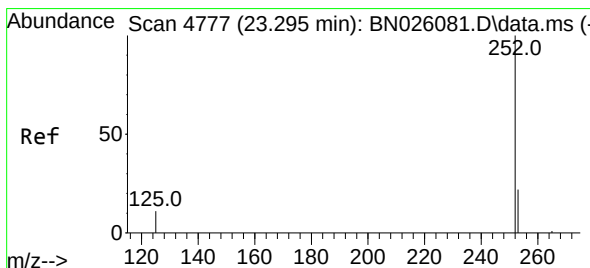
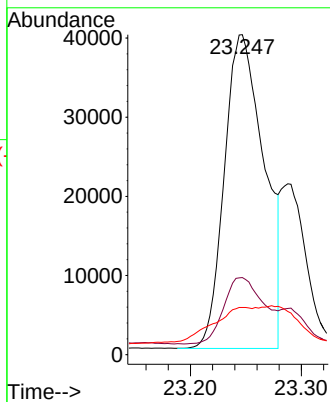
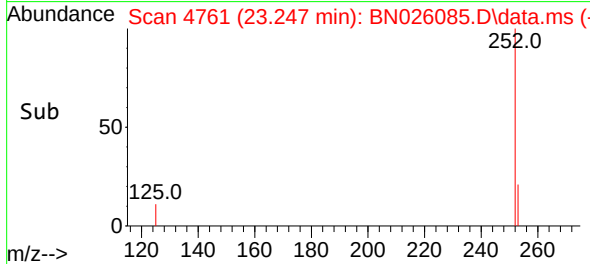
Instrument :  
BNA\_N  
ClientSampleId :  
DCFS2DL



Tgt Ion:252 Resp: 99079  
Ion Ratio Lower Upper  
252 100  
253 24.1 0.0 55.6  
125 14.7 0.0 35.8

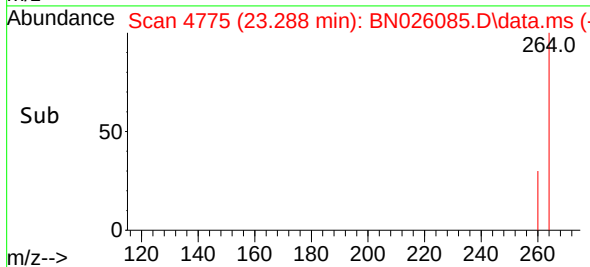
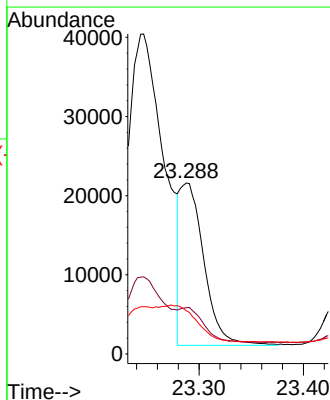
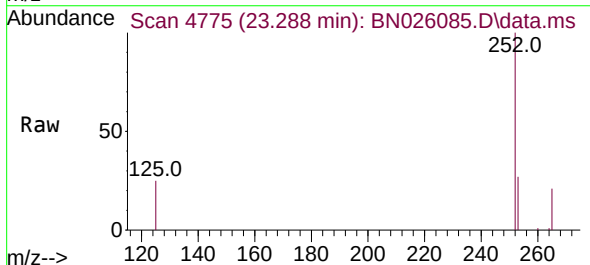
Manual Integrations  
APPROVED

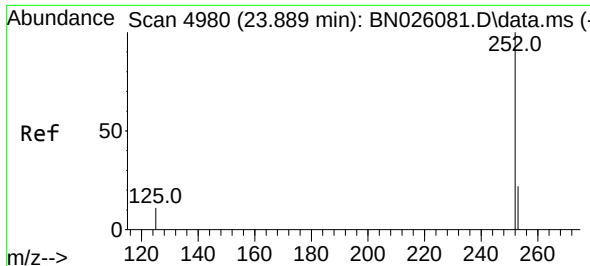
Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.478 ng/ul m  
RT: 23.288 min Scan# 4775  
Delta R.T. -0.015 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

Tgt Ion:252 Resp: 32971  
Ion Ratio Lower Upper  
252 100  
253 27.0 23.2 34.8  
125 25.3 15.0 22.4#





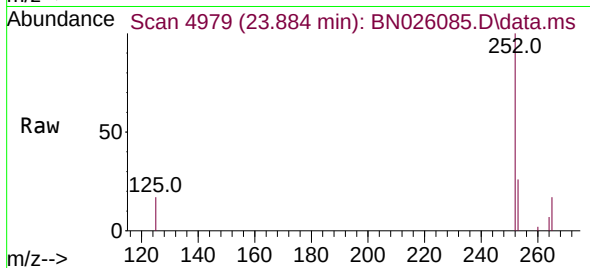
#26  
Benzo(a)pyrene  
Concen: 0.957 ng/ul  
RT: 23.884 min Scan# 4979  
Delta R.T. -0.021 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

Instrument :

BNA\_N

ClientSampleId :

DCFS2DL



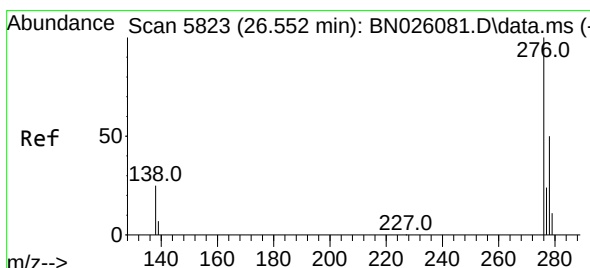
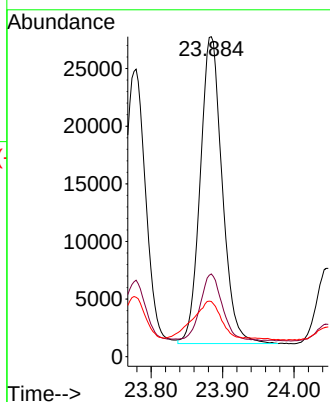
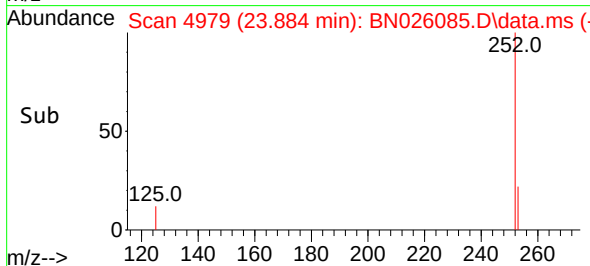
Tgt Ion:252 Resp: 57135  
Ion Ratio Lower Upper  
252 100  
253 25.8 26.0 39.0  
125 17.3 17.3 25.9

Manual Integrations

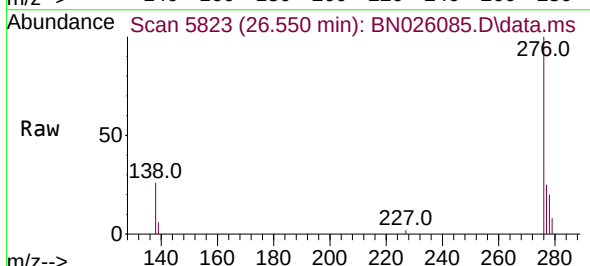
APPROVED

Reviewed By :Yogesh Patel 06/29/2023

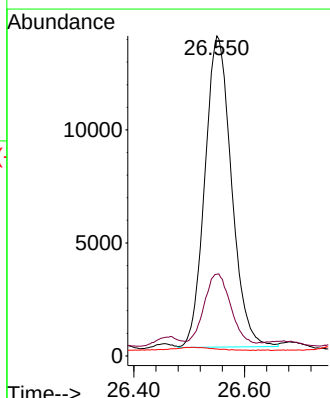
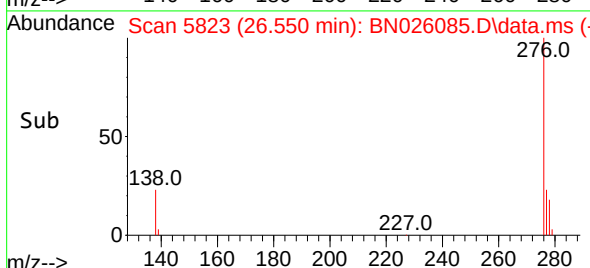
Supervised By :mohammad ahmed 06/30/2023

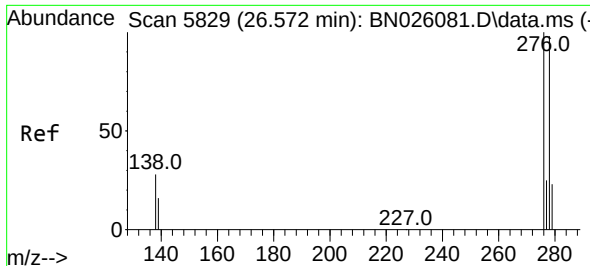


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.704 ng/ul  
RT: 26.550 min Scan# 5823  
Delta R.T. -0.044 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01



Tgt Ion:276 Resp: 45936  
Ion Ratio Lower Upper  
276 100  
138 24.1 24.5 36.7  
227 0.0 0.0 0.0





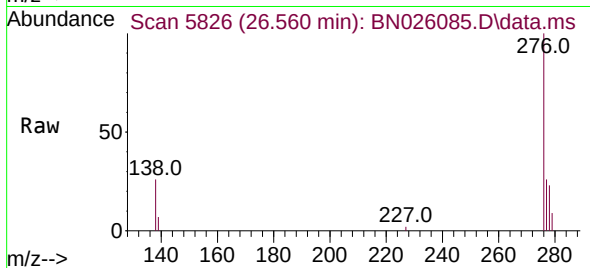
#28  
Dibenzo(a,h)anthracene  
Concen: 0.223 ng/ul  
RT: 26.560 min Scan# 5829  
Delta R.T. -0.054 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01

Instrument :

BNA\_N

ClientSampleId :

DCFS2DL

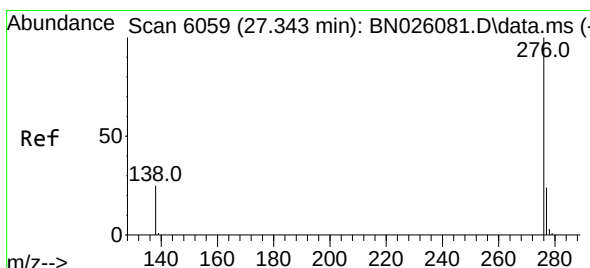
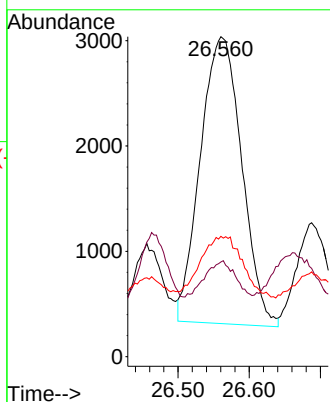
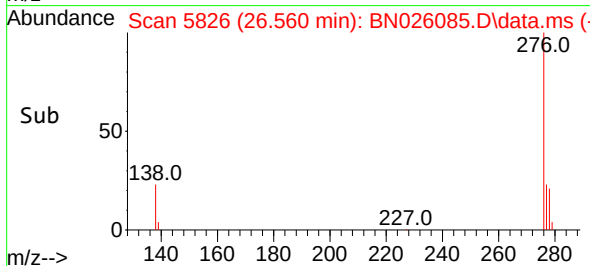


Tgt Ion:278 Resp: 1100  
Ion Ratio Lower Upper  
278 100  
139 29.6 19.0 28.4  
279 37.6 26.7 40.1

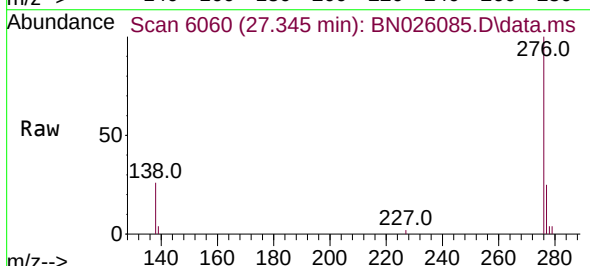
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/29/2023  
Supervised By :mohammad ahmed 06/30/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.773 ng/ul  
RT: 27.345 min Scan# 6060  
Delta R.T. -0.041 min  
Lab File: BN026085.D  
Acq: 29 Jun 2023 09:01



Tgt Ion:276 Resp: 44870  
Ion Ratio Lower Upper  
276 100  
138 26.4 23.4 35.0  
277 25.0 20.0 30.0

