

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050523\  
 Data File : BN025274.D  
 Acq On : 05 May 2023 11:20  
 Operator : CG/JU  
 Sample : 02447-07DL 5X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW912DL

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/08/2023  
 Supervised By : Jagrut Upadhyay 05/08/2023

Quant Time: May 06 04:06:16 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 05 11:29:16 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.908  | 152  | 9224     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.719 | 136  | 29245    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.556 | 164  | 17231    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.304 | 188  | 37594    | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.508 | 240  | 19988    | 0.400  | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.945 | 264  | 24194    | 0.400  | ng/ul  | # 0.01   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.289  | 96   | 4225     | 0.442  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.309 | 152  | 1267     | 0.034  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.335 | 212  | 2491     | 0.047  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.769 | 128  | 79451    | 1.060  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.380 | 142  | 40227    | 0.876  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.600 | 142  | 37463    | 0.766  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.278 | 152  | 71540    | 1.114  | ng/ul  | 98       |
| 11) Acenaphthene            | 14.616 | 153  | 92223    | 1.704  | ng/ul  | 99       |
| 12) Fluorene                | 15.606 | 166  | 126119   | 2.085  | ng/ul  | 100      |
| 15) Phenanthrene            | 17.346 | 178  | 2291979  | 21.599 | ng/ul  | 100      |
| 16) Anthracene              | 17.439 | 178  | 535391   | 6.167  | ng/ul  | 99       |
| 19) Fluoranthene            | 19.367 | 202  | 3936358  | 54.460 | ng/ul  | 97       |
| 20) Pyrene                  | 19.734 | 202  | 3585097  | 48.275 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.490 | 228  | 1545751  | 25.664 | ng/ul  | 98       |
| 22) Chrysene                | 21.543 | 228  | 1496671  | 22.779 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.209 | 252  | 1868912m | 19.040 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.250 | 252  | 631685m  | 6.690  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.846 | 252  | 1352975  | 16.659 | ng/ul# | 91       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.493 | 276  | 954850   | 10.204 | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 26.496 | 278  | 242359   | 3.316  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 27.281 | 276  | 877579   | 11.030 | ng/ul  | 100      |
| -----                       |        |      |          |        |        |          |

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

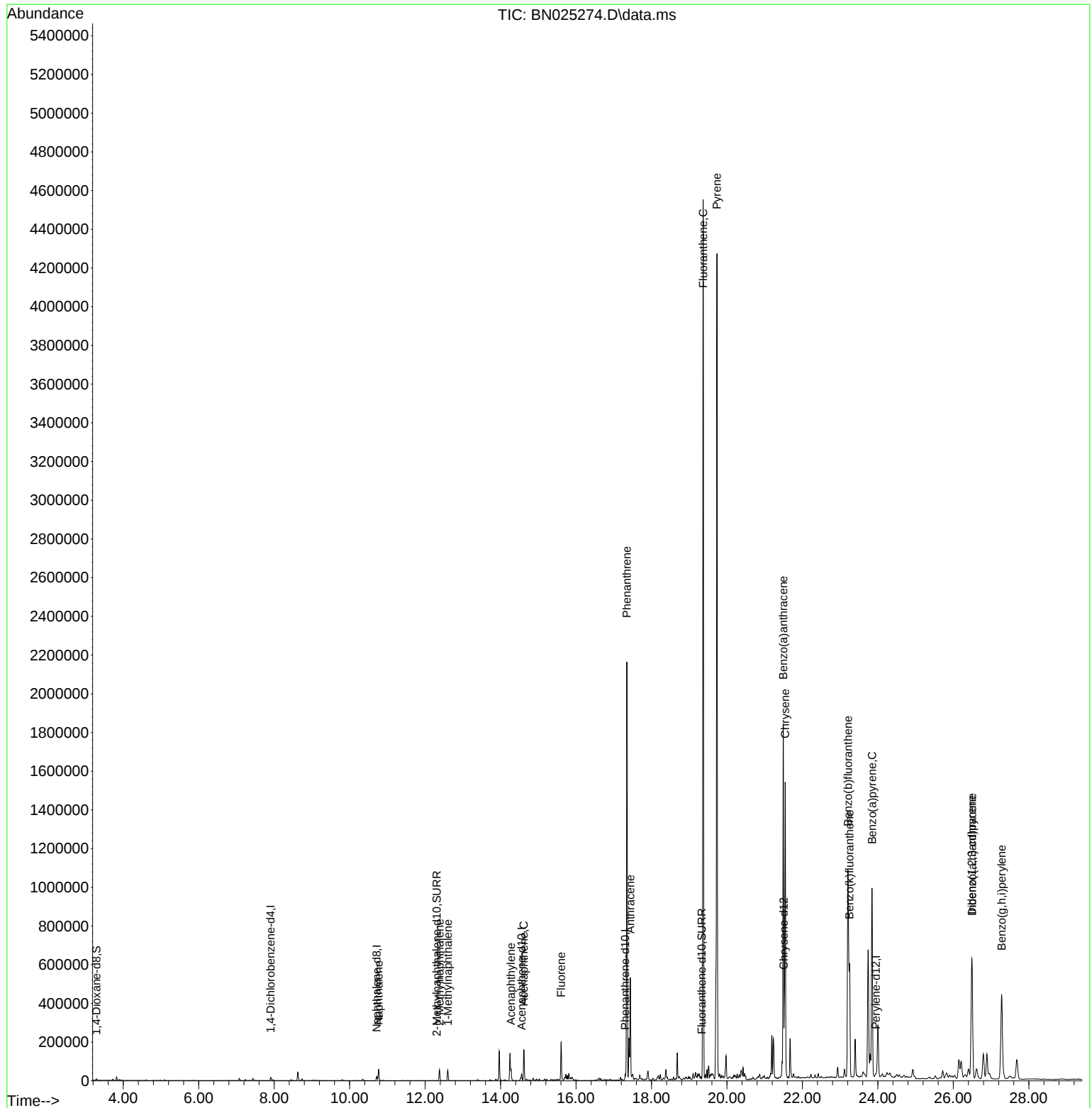
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Data File : BN025274.D  
Acq On : 05 May 2023 11:20  
Operator : CG/JU  
Sample : 02447-07DL 5X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

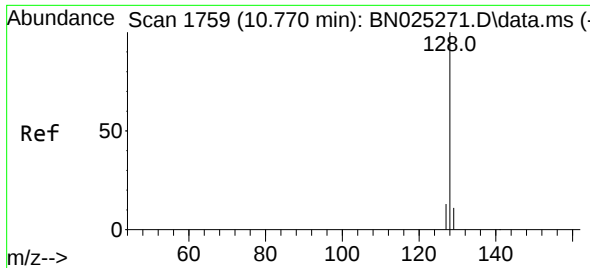
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL

Quant Time: May 06 04:06:16 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 05 11:29:16 2023  
Response via : Initial Calibration

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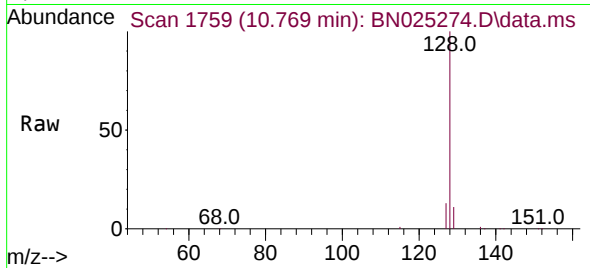
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023





#5  
Naphthalene  
Concen: 1.060 ng/ul  
RT: 10.769 min Scan# 1759  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

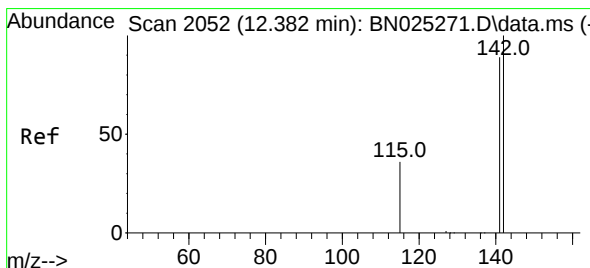
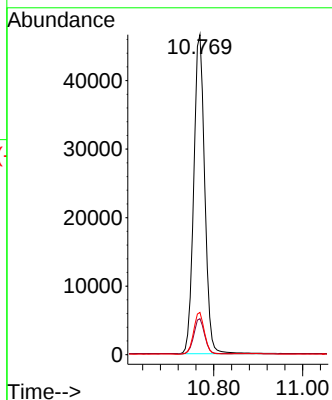
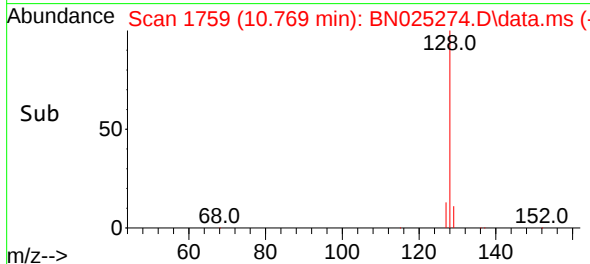
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



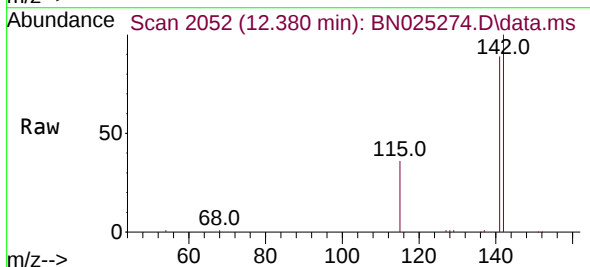
Tgt Ion:128 Resp: 7945  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.6  
127 13.2 10.7 16.1

Manual Integrations  
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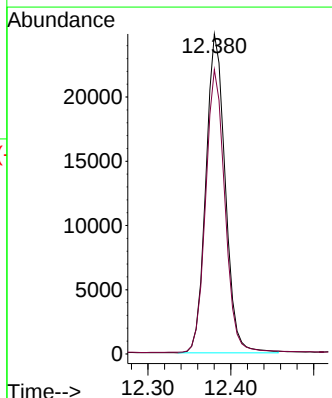
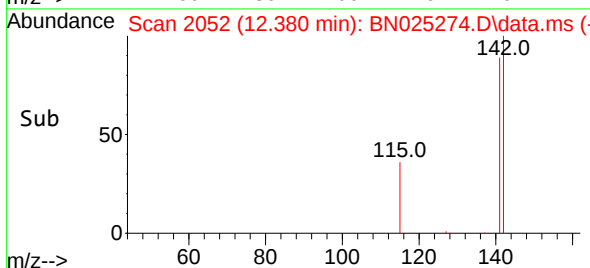
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023

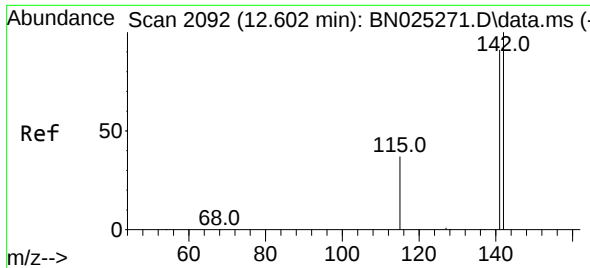


#7  
2-Methylnaphthalene  
Concen: 0.876 ng/ul  
RT: 12.380 min Scan# 2052  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20



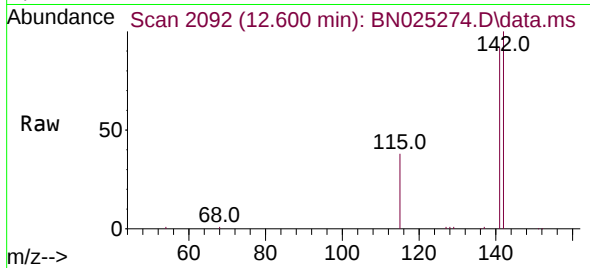
Tgt Ion:142 Resp: 40227  
Ion Ratio Lower Upper  
142 100  
141 88.3 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 0.766 ng/ul  
RT: 12.600 min Scan# 2092  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

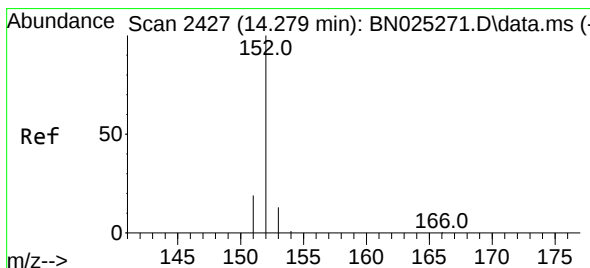
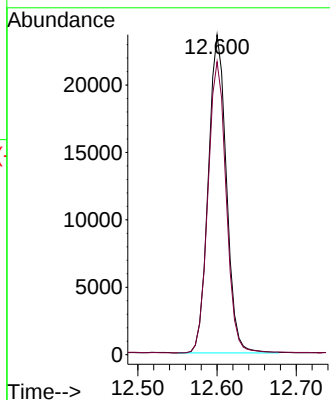
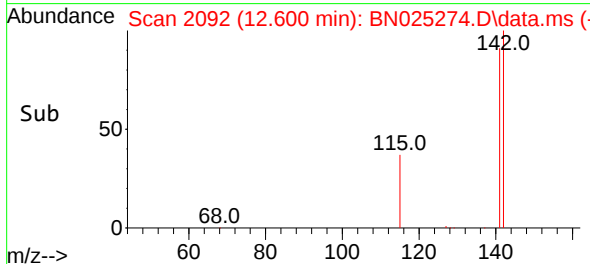
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



Tgt Ion:142 Resp: 3746  
Ion Ratio Lower Upper  
142 100  
141 91.9 73.8 110.6

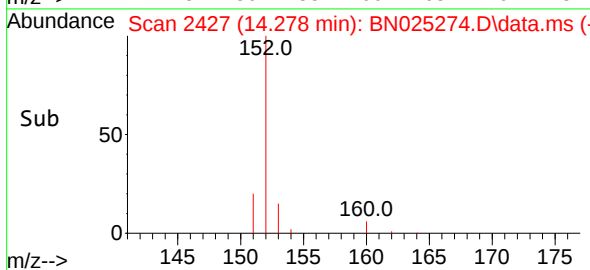
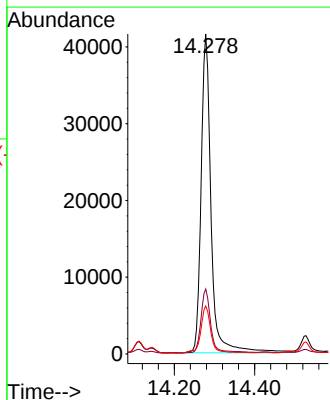
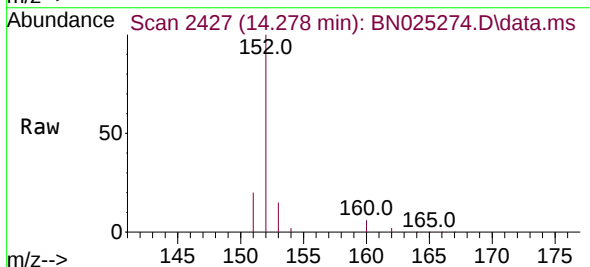
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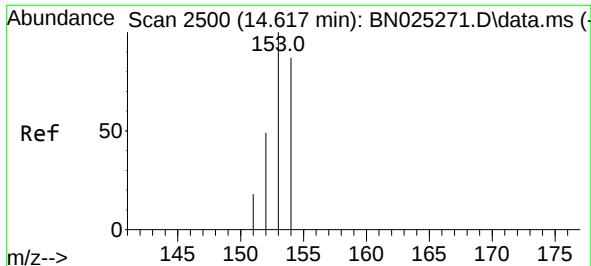
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#10  
Acenaphthylene  
Concen: 1.114 ng/ul  
RT: 14.278 min Scan# 2427  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

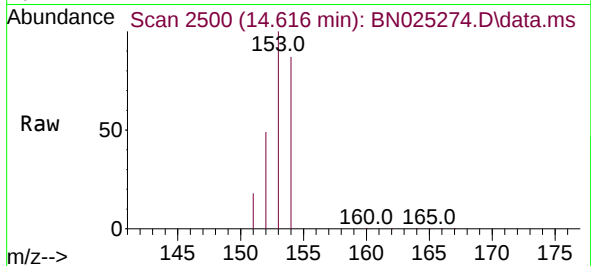
Tgt Ion:152 Resp: 71540  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.0 24.0  
153 15.0 10.8 16.2





#11  
Acenaphthene  
Concen: 1.704 ng/ul  
RT: 14.616 min Scan# 2100  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

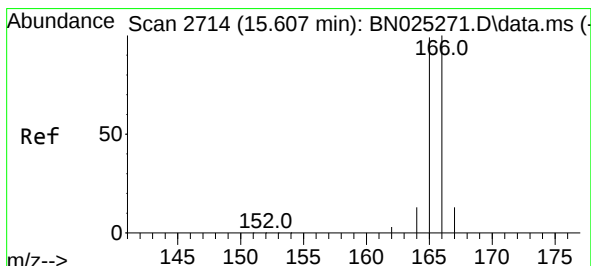
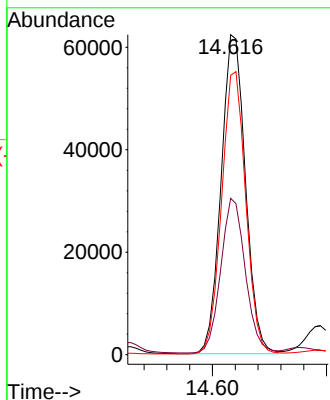
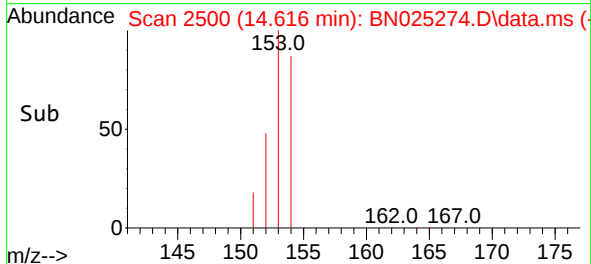
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



Tgt Ion:153 Resp: 92223  
Ion Ratio Lower Upper  
153 100  
152 48.8 40.2 60.4  
154 87.3 69.4 104.2

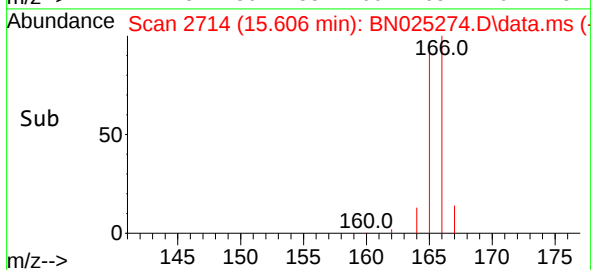
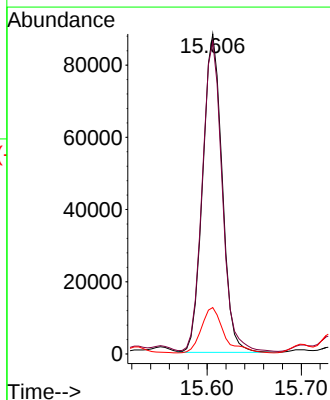
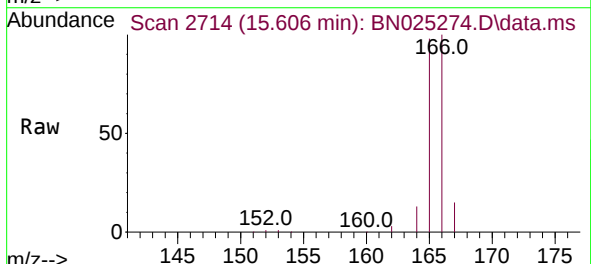
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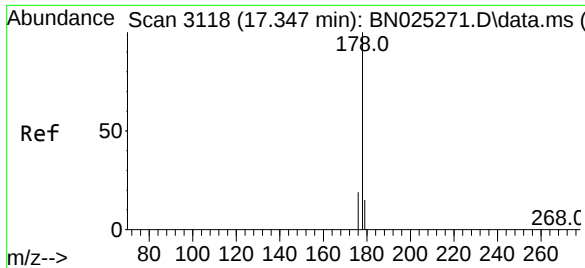
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#12  
Fluorene  
Concen: 2.085 ng/ul  
RT: 15.606 min Scan# 2714  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

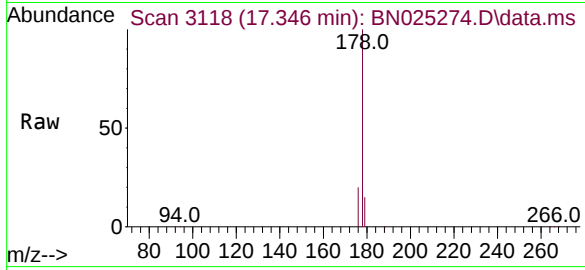
Tgt Ion:166 Resp: 126119  
Ion Ratio Lower Upper  
166 100  
165 97.6 78.1 117.1  
167 14.5 11.0 16.6





#15  
Phenanthrene  
Concen: 21.599 ng/ul  
RT: 17.346 min Scan# 3118  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

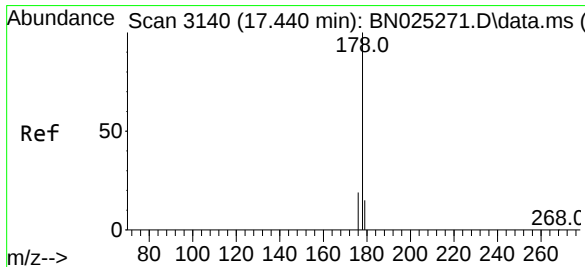
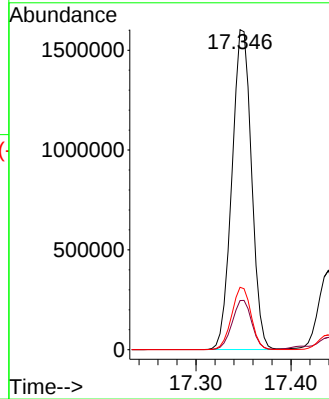
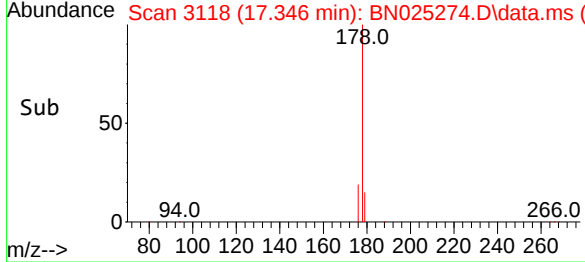
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



Tgt Ion:178 Resp: 2291979  
Ion Ratio Lower Upper  
178 100  
179 15.4 12.5 18.7  
176 19.5 15.6 23.4

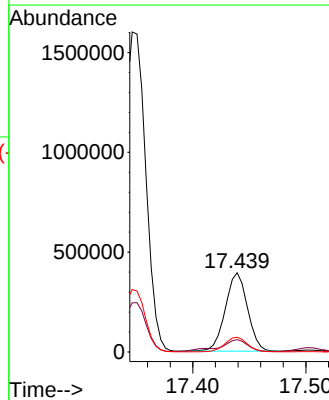
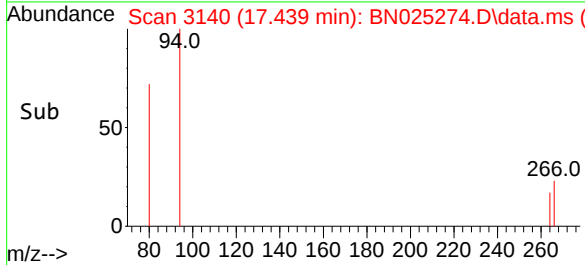
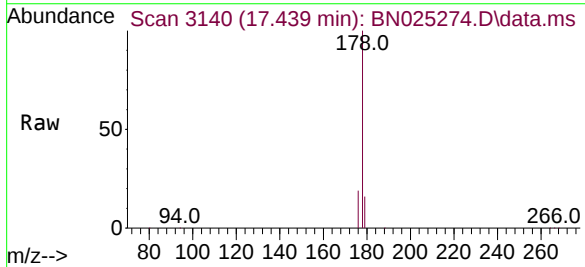
Manual Integrations  
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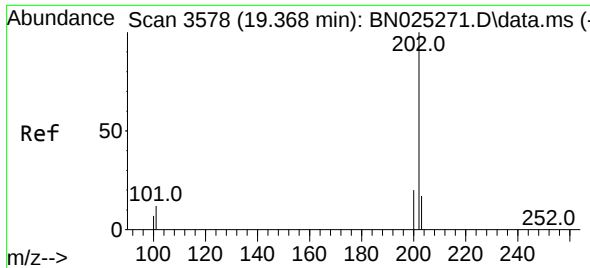
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#16  
Anthracene  
Concen: 6.167 ng/ul  
RT: 17.439 min Scan# 3140  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

Tgt Ion:178 Resp: 535391  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.7 19.1  
176 18.5 15.3 22.9





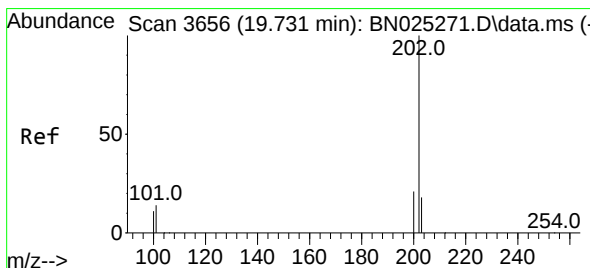
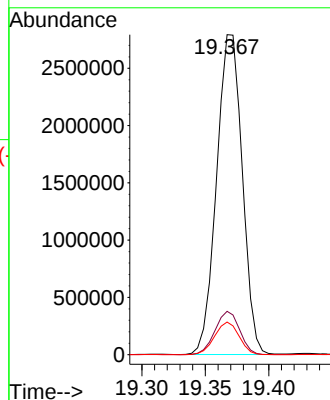
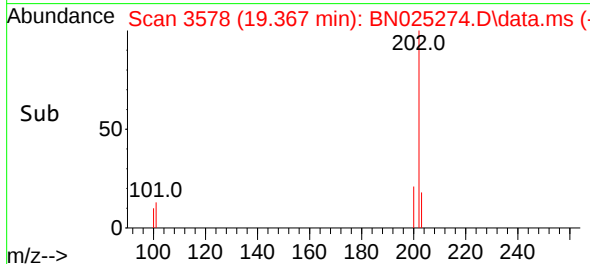
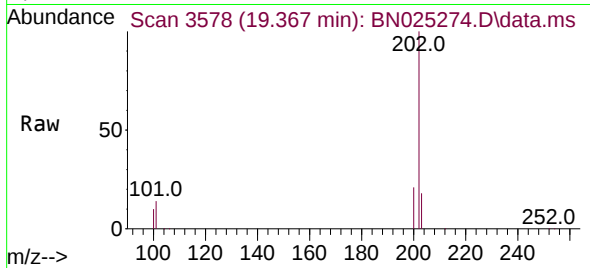
#19  
Fluoranthene  
Concen: 54.460 ng/ul  
RT: 19.367 min Scan# 3578  
Delta R.T. -0.001 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL

Tgt Ion:202 Resp: 393635  
Ion Ratio Lower Upper  
202 100  
101 13.6 9.7 14.5  
100 10.2 7.3 10.9

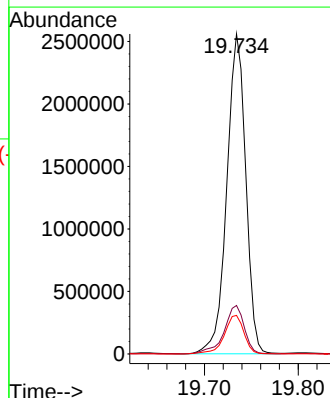
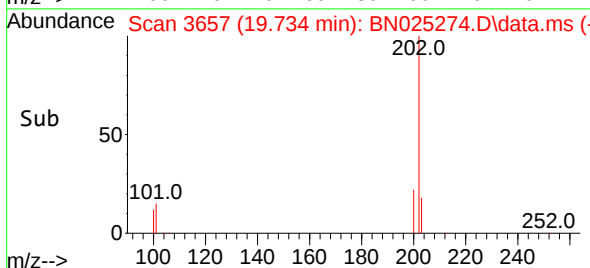
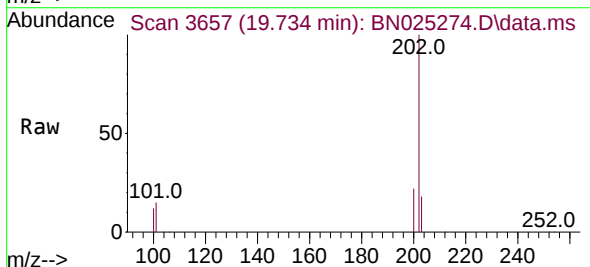
Manual Integrations  
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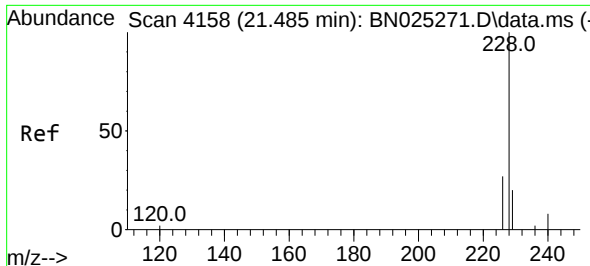
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#20  
Pyrene  
Concen: 48.275 ng/ul  
RT: 19.734 min Scan# 3657  
Delta R.T. 0.004 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

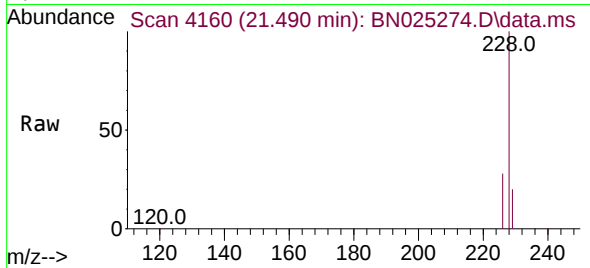
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Ion Ratio Lower Upper  
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101 15.2 11.3 16.9  
100 12.1 9.2 13.8





#21  
Benzo(a)anthracene  
Concen: 25.664 ng/ul  
RT: 21.490 min Scan# 4158  
Delta R.T. 0.005 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

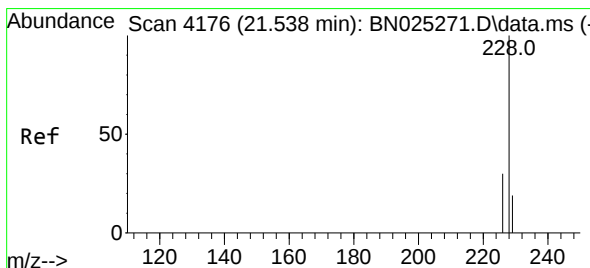
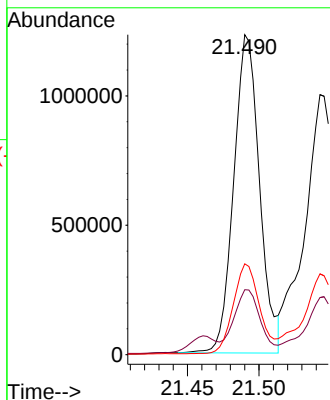
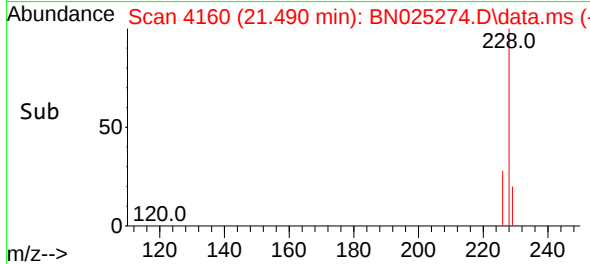
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



Tgt Ion:228 Resp: 154575  
Ion Ratio Lower Upper  
228 100  
229 20.3 15.6 23.4  
226 28.4 22.1 33.1

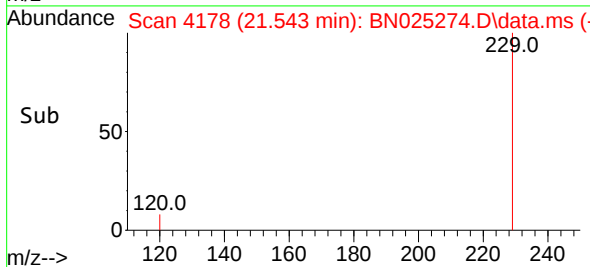
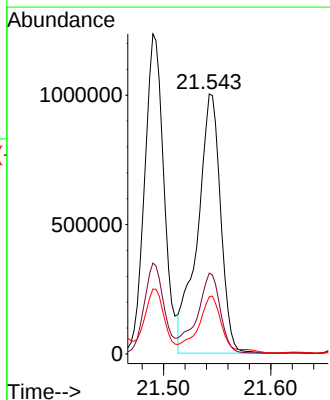
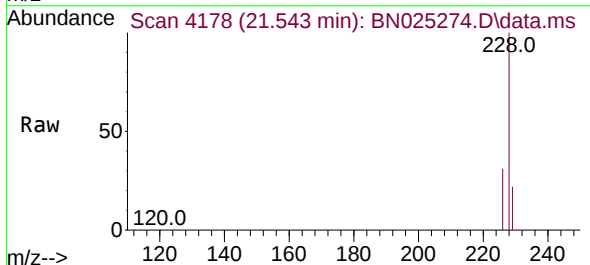
Manual Integrations  
APPROVED

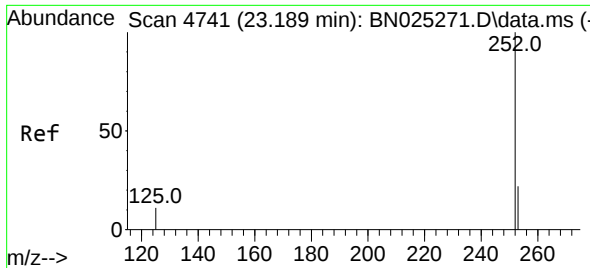
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#22  
Chrysene  
Concen: 22.779 ng/ul  
RT: 21.543 min Scan# 4178  
Delta R.T. 0.005 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

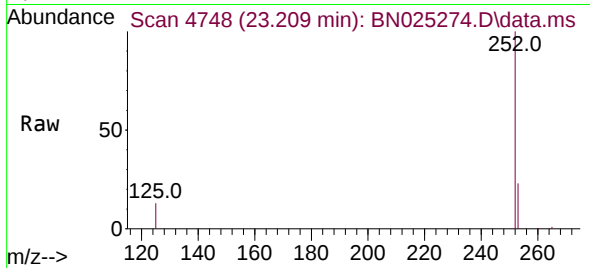
Tgt Ion:228 Resp: 1496671  
Ion Ratio Lower Upper  
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226 31.1 24.5 36.7  
229 22.0 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 19.040 ng/ul m  
RT: 23.209 min Scan# 4748  
Delta R.T. 0.020 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

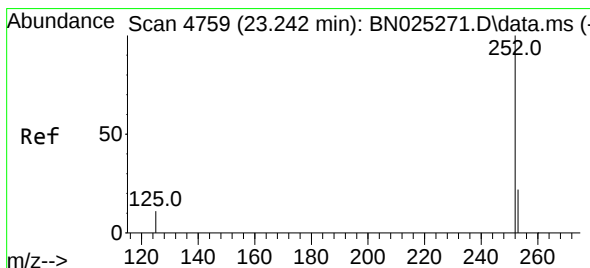
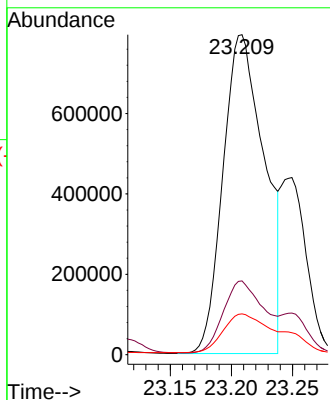
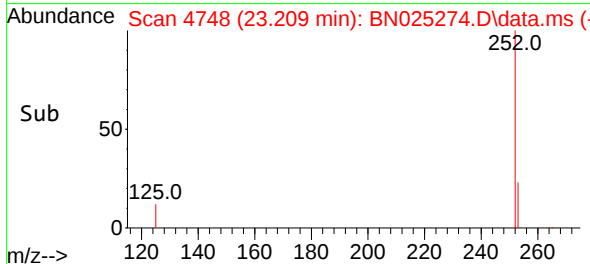
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



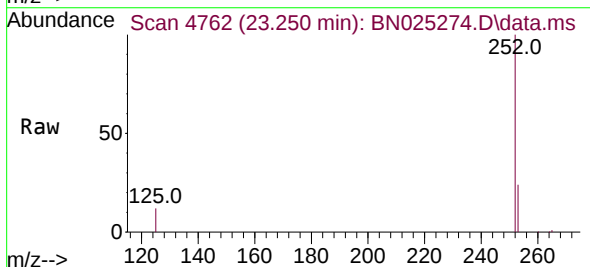
Tgt Ion:252 Resp: 186891  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 50.2  
125 12.8 0.0 30.4

Manual Integrations  
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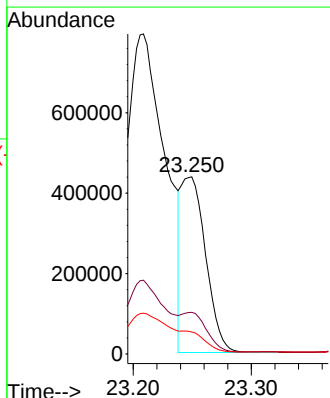
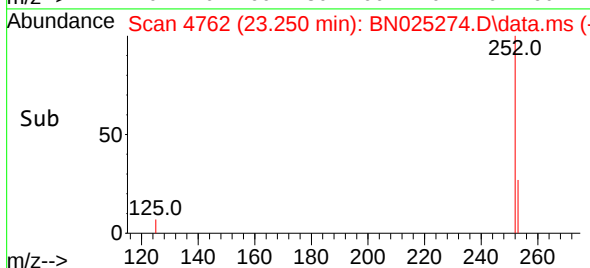
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023

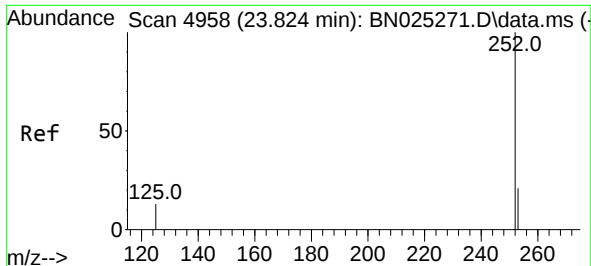


#25  
Benzo(k)fluoranthene  
Concen: 6.690 ng/ul m  
RT: 23.250 min Scan# 4762  
Delta R.T. 0.008 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20



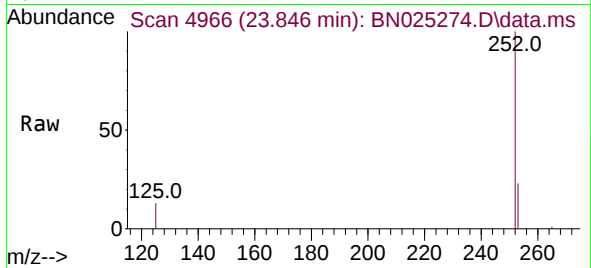
Tgt Ion:252 Resp: 631685  
Ion Ratio Lower Upper  
252 100  
253 23.5 20.2 30.4  
125 12.4 11.8 17.8





#26  
Benzo(a)pyrene  
Concen: 16.659 ng/ul  
RT: 23.846 min Scan# 4958  
Delta R.T. 0.022 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

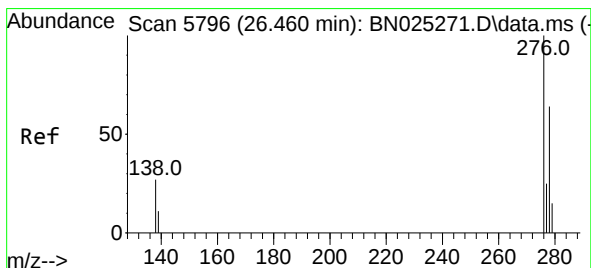
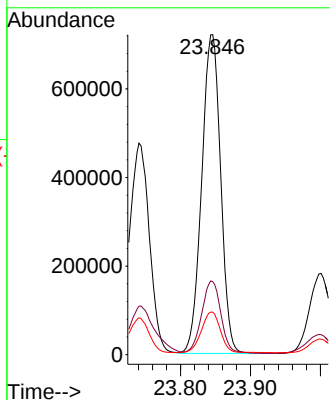
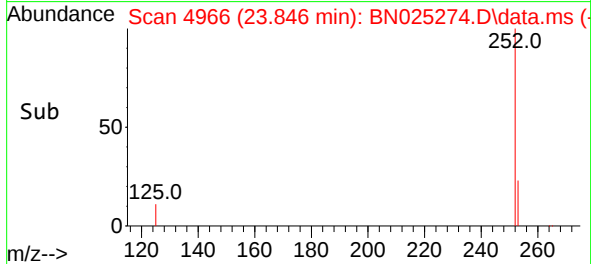
Instrument :  
BNA\_N  
ClientSampleId :  
EW912DL



Tgt Ion:252 Resp: 1352975  
Ion Ratio Lower Upper  
252 100  
253 22.8 21.4 32.2  
125 13.3 14.6 22.0

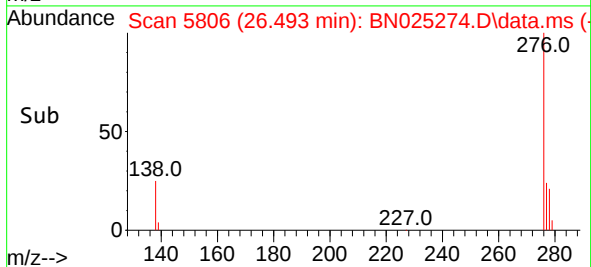
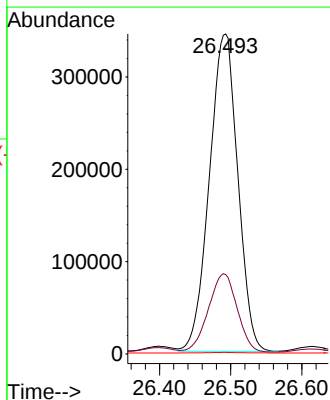
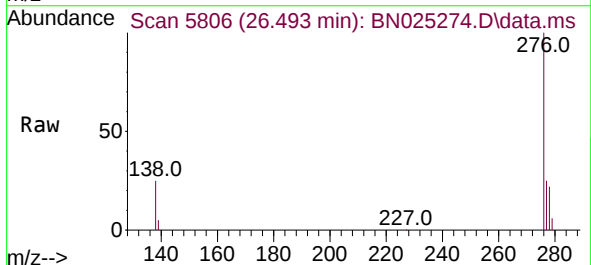
Manual Integrations  
APPROVED

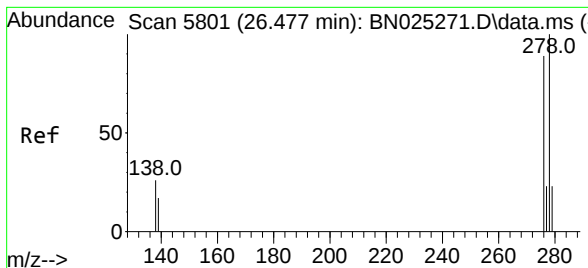
Reviewed By :Christian Giraldo 05/08/2023  
Supervised By :Jagrut Upadhyay 05/08/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 10.204 ng/ul  
RT: 26.493 min Scan# 5806  
Delta R.T. 0.033 min  
Lab File: BN025274.D  
Acq: 05 May 2023 11:20

Tgt Ion:276 Resp: 954850  
Ion Ratio Lower Upper  
276 100  
138 25.0 21.9 32.9  
227 0.3 0.1 0.1





#28

Dibenzo(a,h)anthracene

Concen: 3.316 ng/ul

RT: 26.496 min Scan# 5801

Delta R.T. 0.019 min

Lab File: BN025274.D

Acq: 05 May 2023 11:20

Instrument :

BNA\_N

ClientSampleId :

EW912DL

Tgt Ion:278 Resp: 242359

Ion Ratio Lower Upper

278 100

139 23.0 17.0 25.6

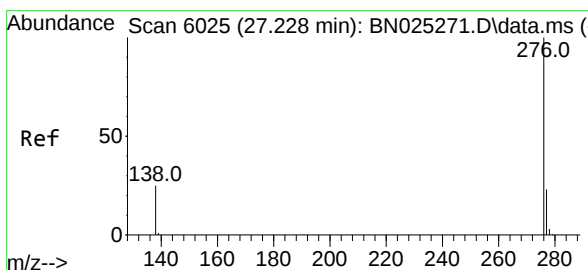
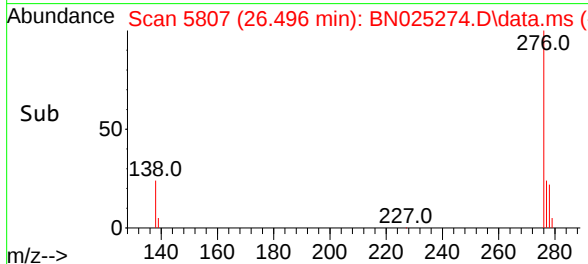
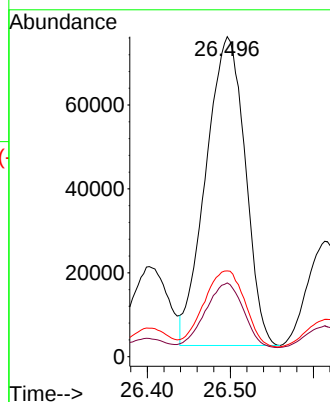
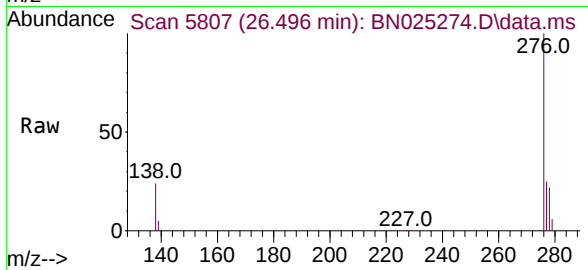
279 26.8 21.8 32.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/08/2023

Supervised By :Jagrut Upadhyay 05/08/2023



#29

Benzo(g,h,i)perylene

Concen: 11.030 ng/ul

RT: 27.281 min Scan# 6041

Delta R.T. 0.053 min

Lab File: BN025274.D

Acq: 05 May 2023 11:20

Tgt Ion:276 Resp: 877579

Ion Ratio Lower Upper

276 100

138 25.3 20.3 30.5

277 24.4 19.8 29.6

