

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
 Data File : BN025251.D  
 Acq On : 03 May 2023 22:06  
 Operator : CG/JU  
 Sample : 02447-20  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW938

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/04/2023  
 Supervised By : Jagrut Upadhyay 05/04/2023

Quant Time: May 04 04:31:35 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 : Wed May 03 15:28:32 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.921  | 152  | 6648     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.732 | 136  | 21102    | 0.400  | ng/ul  | 0.01     |
| 9) Acenaphthene-d10         | 14.570 | 164  | 13397    | 0.400  | ng/ul  | 0.01     |
| 13) Phenanthrene-d10        | 17.321 | 188  | 48165    | 0.400  | ng/ul  | # 0.01   |
| 17) Chrysene-d12            | 21.520 | 240  | 19539    | 0.400  | ng/ul  | # 0.02   |
| 23) Perylene-d12            | 23.978 | 264  | 15889    | 0.400  | ng/ul  | # 0.04   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.297  | 96   | 9238     | 1.342  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.321 | 152  | 3454     | 0.127  | ng/ul  | 0.01     |
| 18) Fluoranthene-d10        | 19.354 | 212  | 9121     | 0.177  | ng/ul  | 0.01     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.781 | 128  | 44673    | 0.826  | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.392 | 142  | 34325    | 1.036  | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.612 | 142  | 23432    | 0.664  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.293 | 152  | 78052    | 1.564  | ng/ul  | 97       |
| 11) Acenaphthene            | 14.630 | 153  | 41443    | 0.985  | ng/ul  | 100      |
| 12) Fluorene                | 15.620 | 166  | 51779    | 1.101  | ng/ul  | 98       |
| 15) Phenanthrene            | 17.364 | 178  | 949065   | 6.981  | ng/ul  | 100      |
| 16) Anthracene              | 17.457 | 178  | 230975   | 2.077  | ng/ul  | 99       |
| 19) Fluoranthene            | 19.386 | 202  | 1901330  | 26.909 | ng/ul  | 98       |
| 20) Pyrene                  | 19.753 | 202  | 1771584  | 24.403 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.505 | 228  | 872050   | 14.811 | ng/ul  | 96       |
| 22) Chrysene                | 21.558 | 228  | 928731   | 14.460 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.230 | 252  | 1186835m | 18.411 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.273 | 252  | 441029m  | 7.113  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.879 | 252  | 785812   | 14.733 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.554 | 276  | 712299   | 11.591 | ng/ul# | 94       |
| 28) Dibenzo(a,h)anthracene  | 26.554 | 278  | 181340   | 3.778  | ng/ul# | 91       |
| 29) Benzo(g,h,i)perylene    | 27.345 | 276  | 717684   | 13.735 | ng/ul  | 99       |
| -----                       |        |      |          |        |        |          |

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

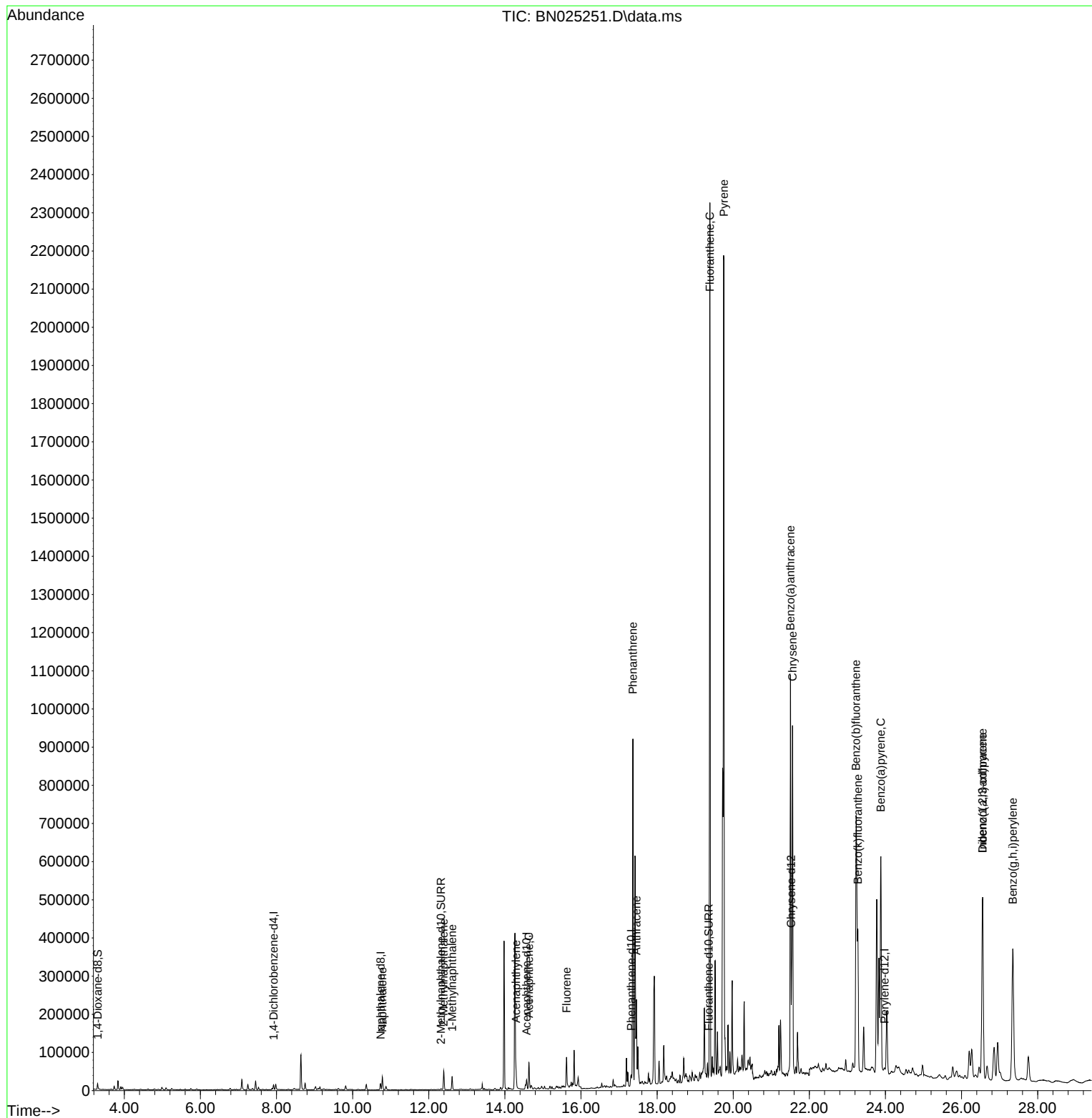
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
Data File : BN025251.D  
Acq On : 03 May 2023 22:06  
Operator : CG/JU  
Sample : 02447-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

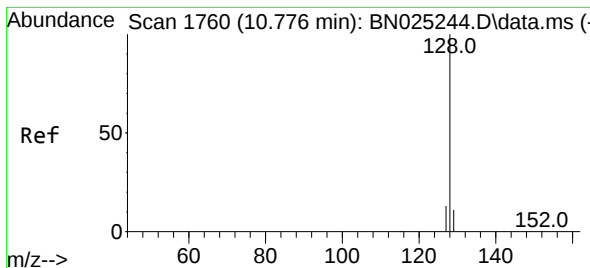
Instrument :  
BNA\_N  
ClientSampleId :  
EW938

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Supervised By : Jagrut Upadhyay 05/04/2023

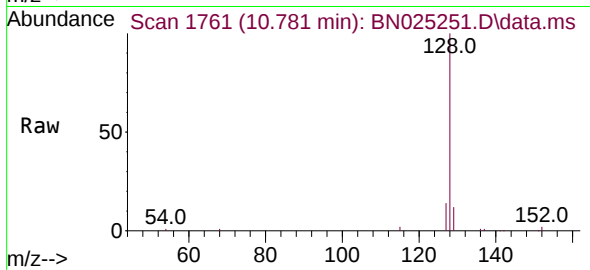
Quant Time: May 04 04:31:35 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN042023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 03 15:28:32 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.826 ng/ul  
RT: 10.781 min Scan# 1761  
Delta R.T. 0.013 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

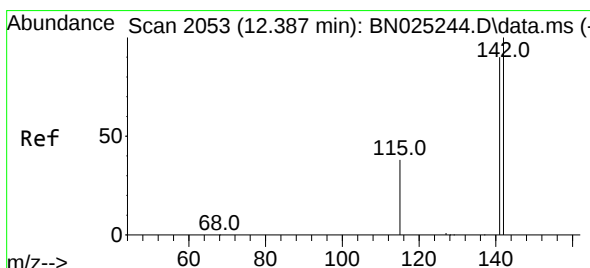
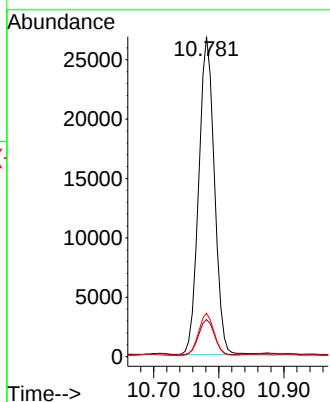
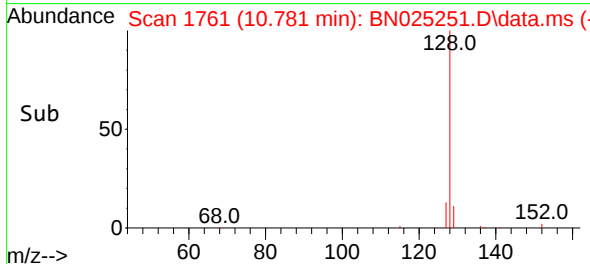
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



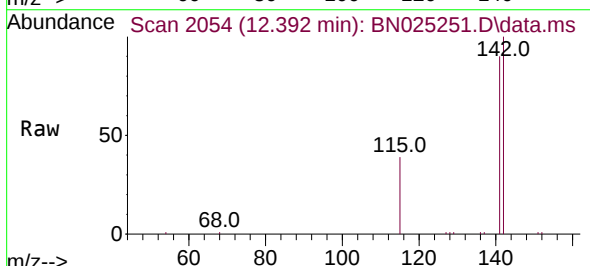
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Ion Ratio Lower Upper  
128 100  
129 11.6 9.0 13.6  
127 13.6 10.7 16.1

Manual Integrations  
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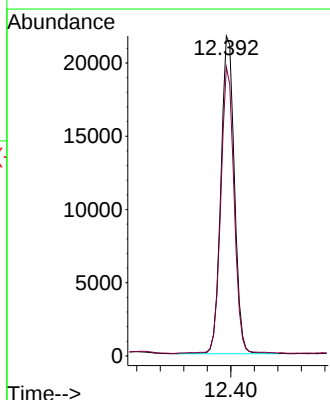
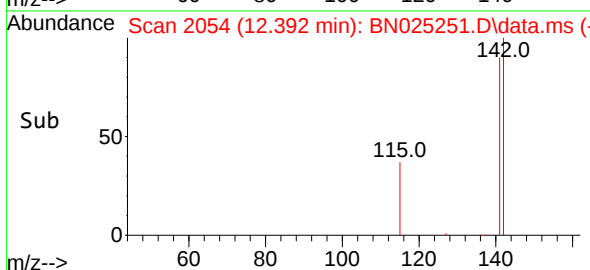
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

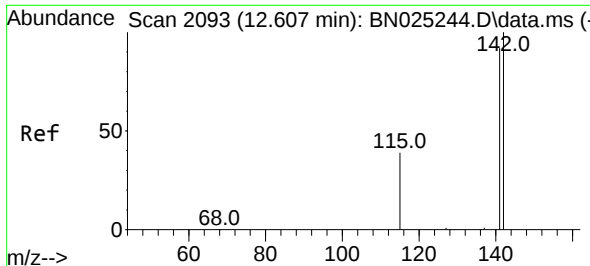


#7  
2-Methylnaphthalene  
Concen: 1.036 ng/ul  
RT: 12.392 min Scan# 2054  
Delta R.T. 0.007 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06



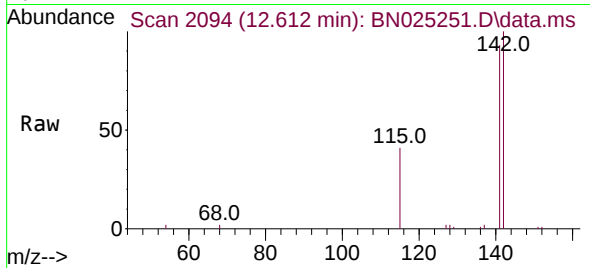
Tgt Ion:142 Resp: 34325  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 0.664 ng/ul  
RT: 12.612 min Scan# 2094  
Delta R.T. 0.007 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

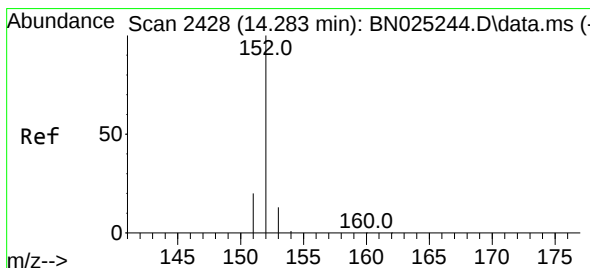
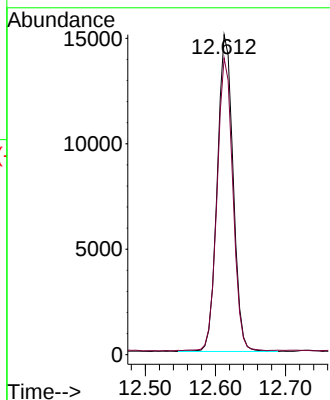
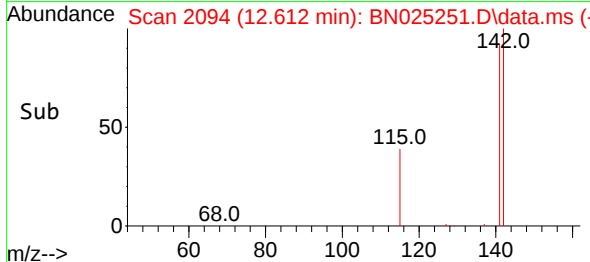
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



Tgt Ion:142 Resp: 2343  
Ion Ratio Lower Upper  
142 100  
141 92.1 73.8 110.6

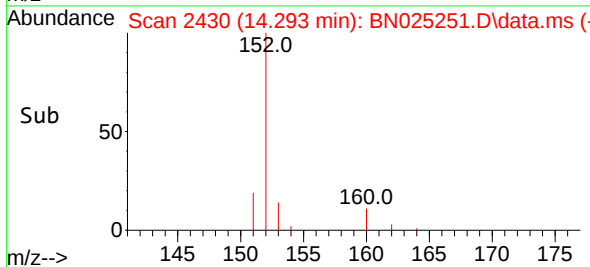
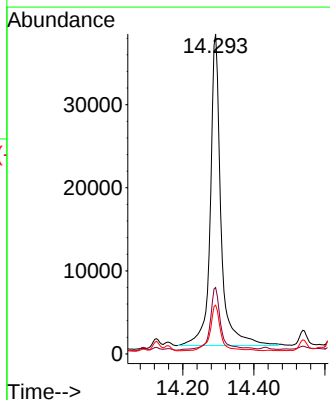
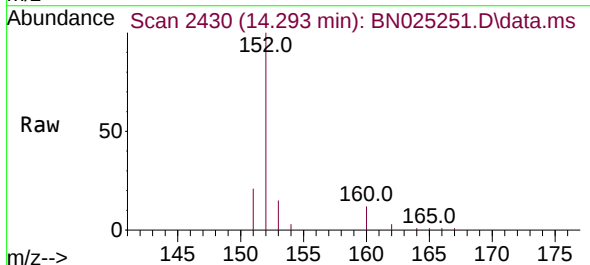
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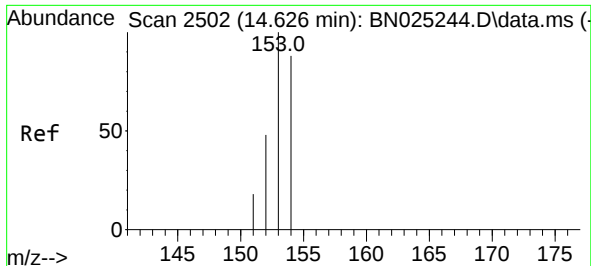
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#10  
Acenaphthylene  
Concen: 1.564 ng/ul  
RT: 14.293 min Scan# 2430  
Delta R.T. 0.015 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

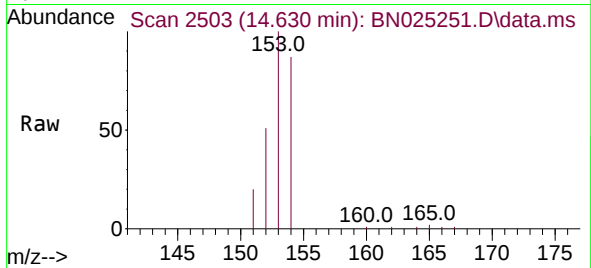
Tgt Ion:152 Resp: 78052  
Ion Ratio Lower Upper  
152 100  
151 20.8 16.0 24.0  
153 15.3 10.8 16.2





#11  
Acenaphthene  
Concen: 0.985 ng/u1  
RT: 14.630 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

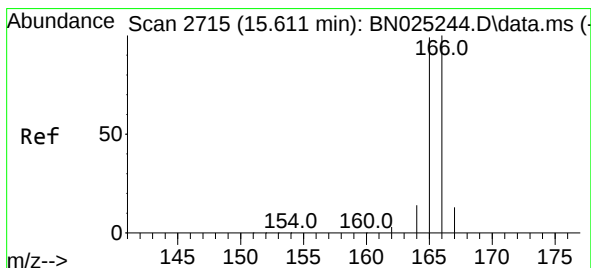
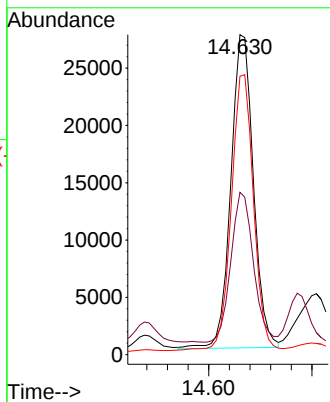
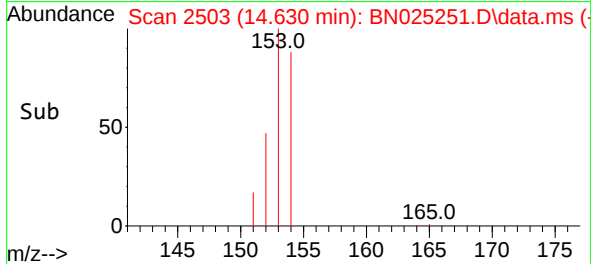
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



Tgt Ion:153 Resp: 4144  
Ion Ratio Lower Upper  
153 100  
152 50.8 40.2 60.4  
154 87.0 69.4 104.2

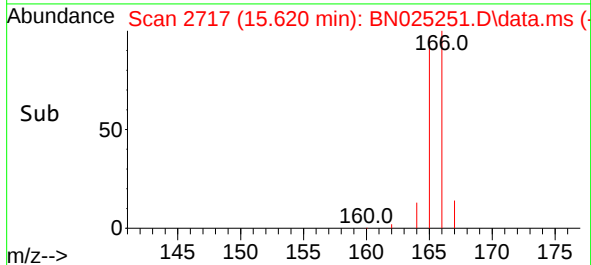
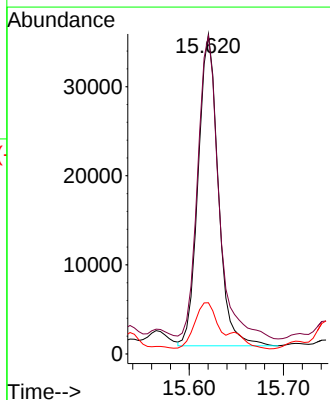
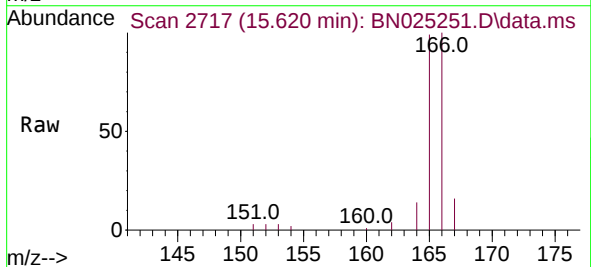
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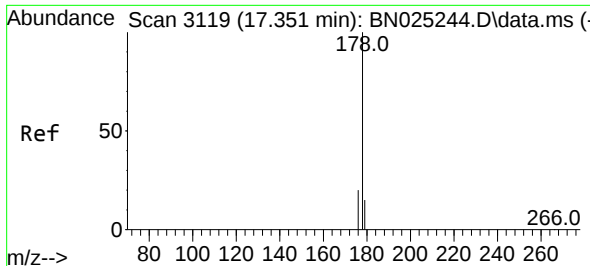
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#12  
Fluorene  
Concen: 1.101 ng/u1  
RT: 15.620 min Scan# 2717  
Delta R.T. 0.010 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

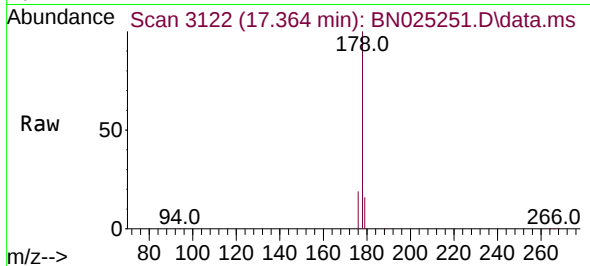
Tgt Ion:166 Resp: 51779  
Ion Ratio Lower Upper  
166 100  
165 99.5 78.1 117.1  
167 16.0 11.0 16.6





#15  
Phenanthrene  
Concen: 6.981 ng/ul  
RT: 17.364 min Scan# 3119  
Delta R.T. 0.014 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

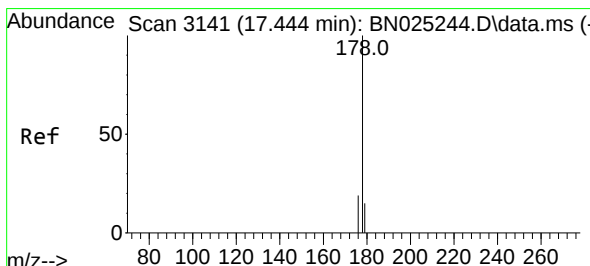
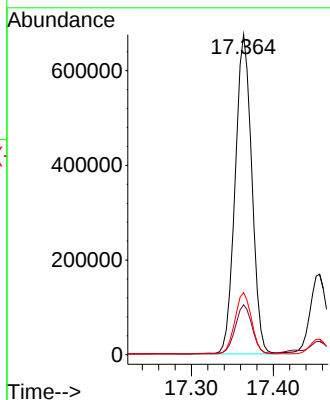
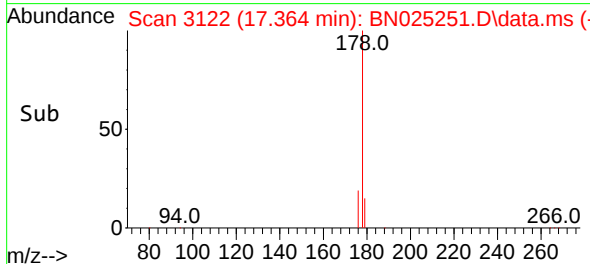
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



Tgt Ion:178 Resp: 949065  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.5 18.7  
176 19.4 15.6 23.4

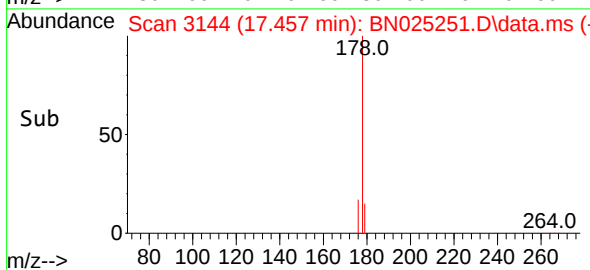
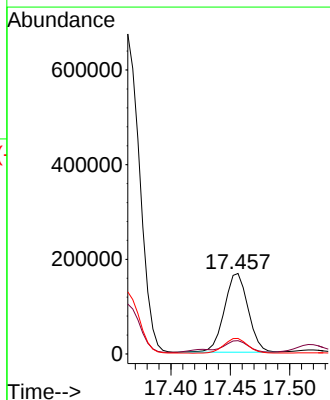
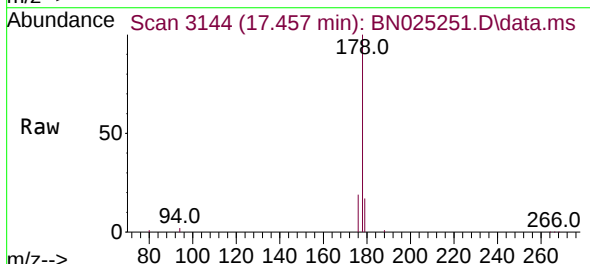
Manual Integrations  
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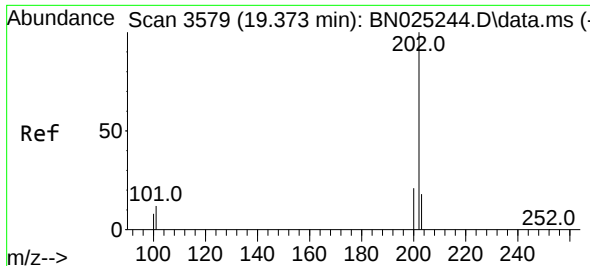
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#16  
Anthracene  
Concen: 2.077 ng/ul  
RT: 17.457 min Scan# 3144  
Delta R.T. 0.014 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

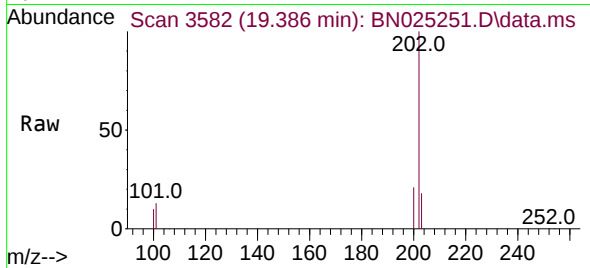
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Ion Ratio Lower Upper  
178 100  
179 16.5 12.7 19.1  
176 19.2 15.3 22.9





#19  
Fluoranthene  
Concen: 26.909 ng/u1  
RT: 19.386 min Scan# 3582  
Delta R.T. 0.015 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

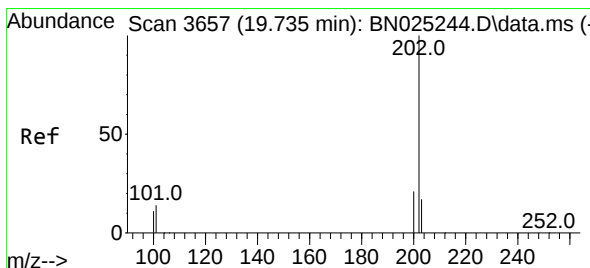
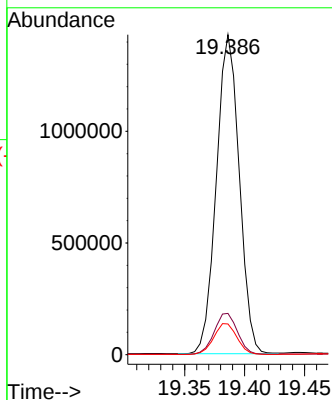
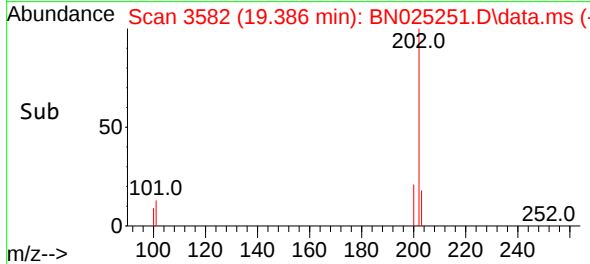
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



Tgt Ion:202 Resp: 1901330  
Ion Ratio Lower Upper  
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100 9.6 7.3 10.9

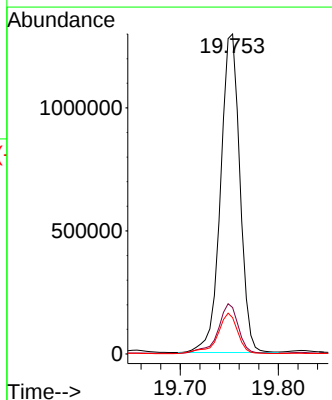
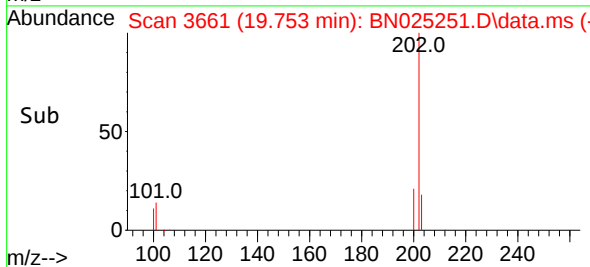
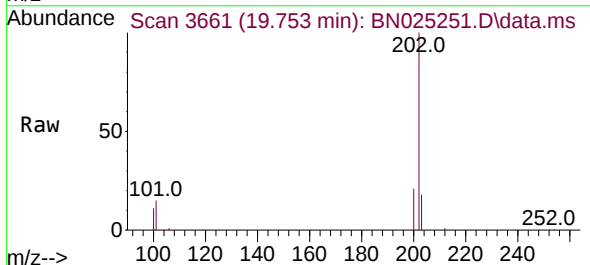
Manual Integrations  
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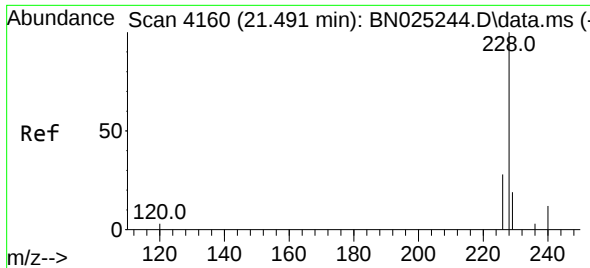
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#20  
Pyrene  
Concen: 24.403 ng/u1  
RT: 19.753 min Scan# 3661  
Delta R.T. 0.019 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

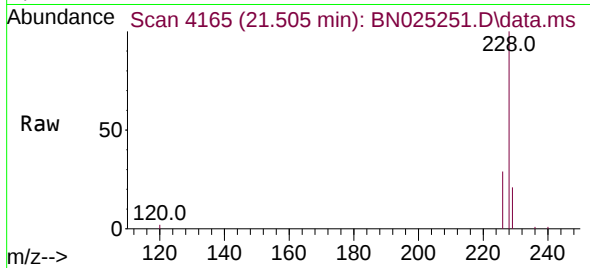
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Ion Ratio Lower Upper  
202 100  
101 14.5 11.3 16.9  
100 11.4 9.2 13.8





#21  
Benzo(a)anthracene  
Concen: 14.811 ng/uI  
RT: 21.505 min Scan# 4160  
Delta R.T. 0.018 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

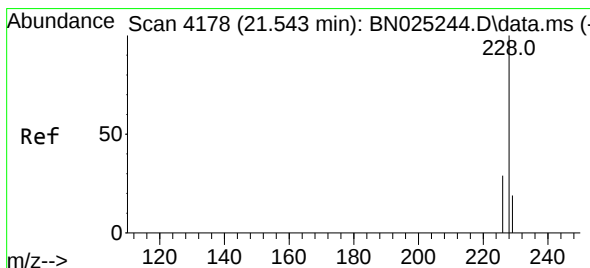
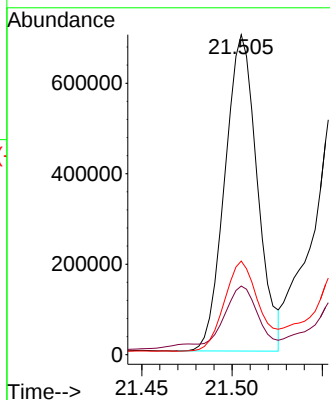
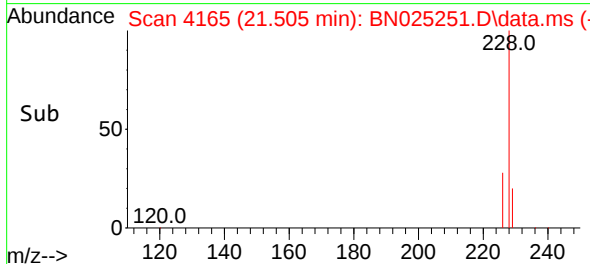
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



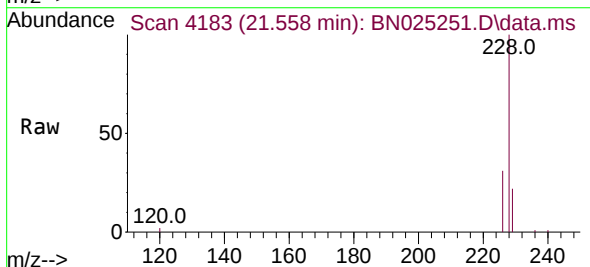
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Ion Ratio Lower Upper  
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226 29.2 22.1 33.1

Manual Integrations  
APPROVED

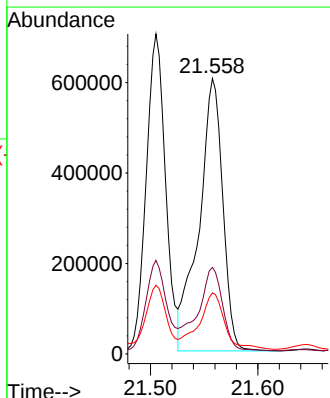
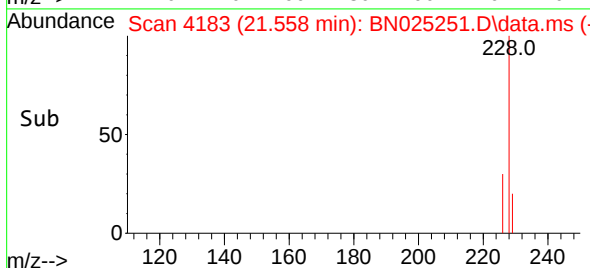
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

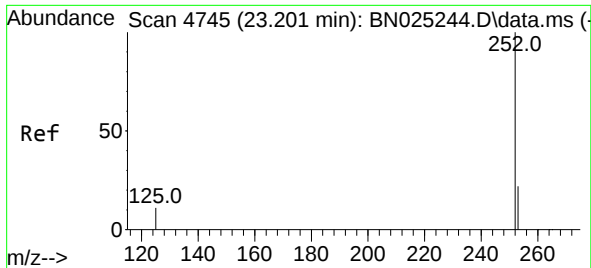


#22  
Chrysene  
Concen: 14.460 ng/uI  
RT: 21.558 min Scan# 4183  
Delta R.T. 0.018 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06



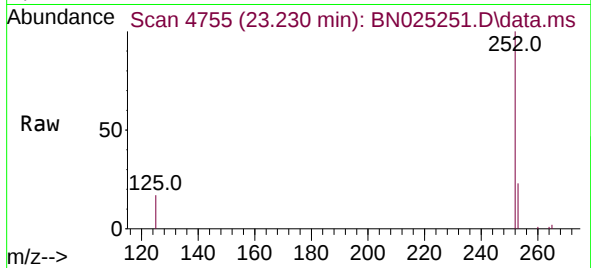
Tgt Ion:228 Resp: 928731  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.5 36.7  
229 22.2 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 18.411 ng/ul m  
RT: 23.230 min Scan# 4755  
Delta R.T. 0.033 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

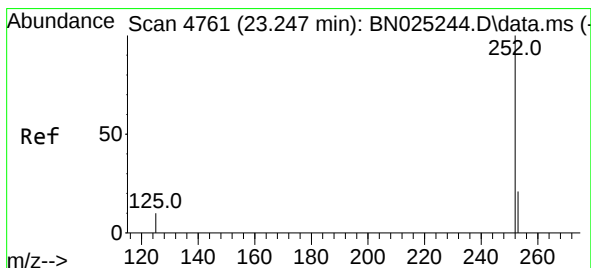
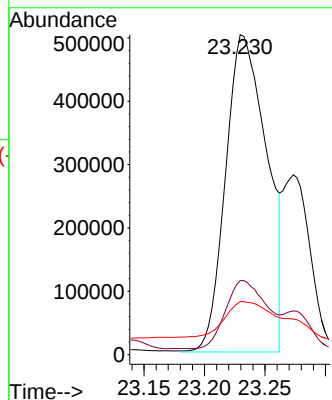
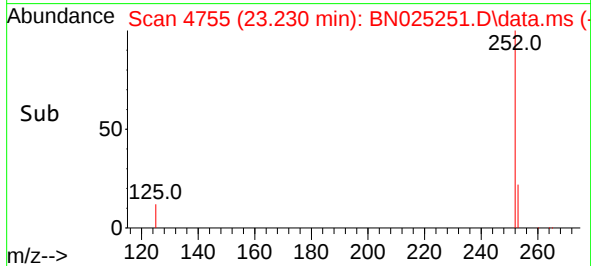
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



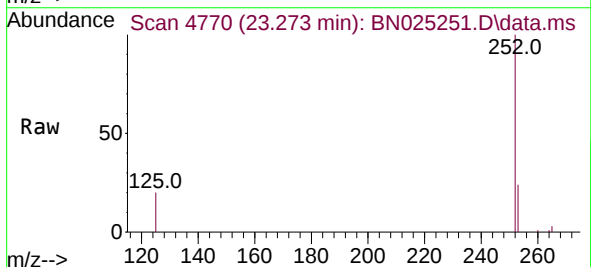
Tgt Ion:252 Resp: 118683  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 50.2  
125 16.6 0.0 30.4

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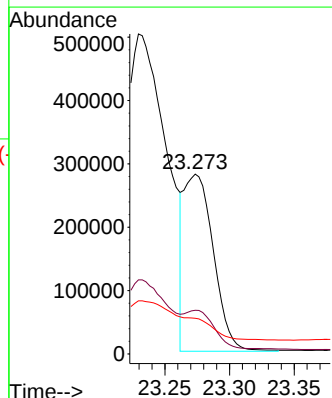
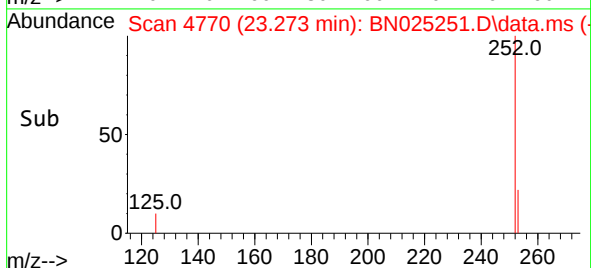
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

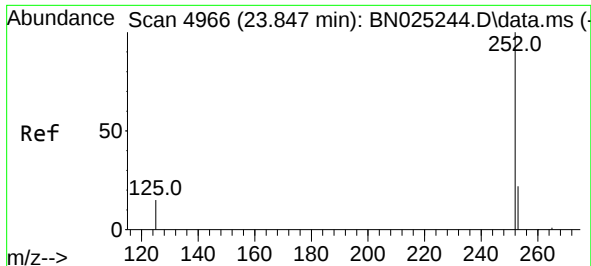


#25  
Benzo(k)fluoranthene  
Concen: 7.113 ng/ul m  
RT: 23.273 min Scan# 4770  
Delta R.T. 0.027 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06



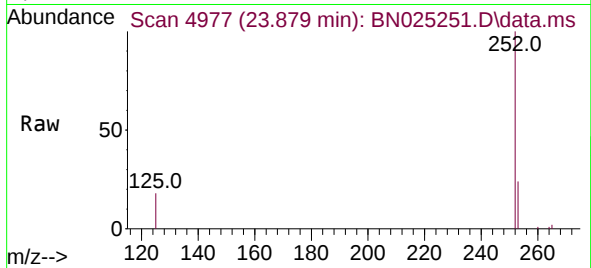
Tgt Ion:252 Resp: 441029  
Ion Ratio Lower Upper  
252 100  
253 24.3 20.2 30.4  
125 19.8 11.8 17.8#





#26  
Benzo(a)pyrene  
Concen: 14.733 ng/ul  
RT: 23.879 min Scan# 4966  
Delta R.T. 0.051 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

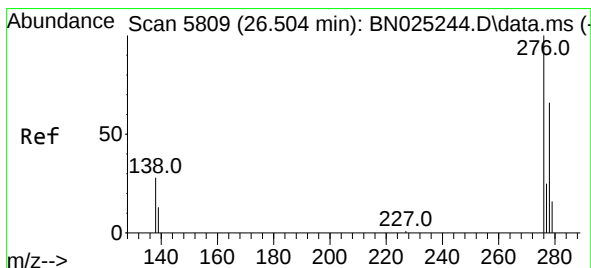
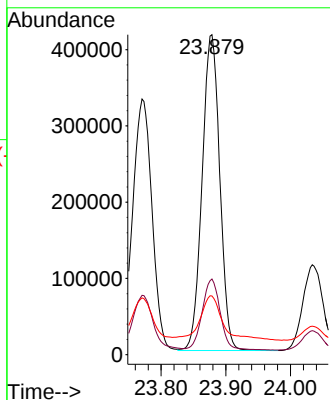
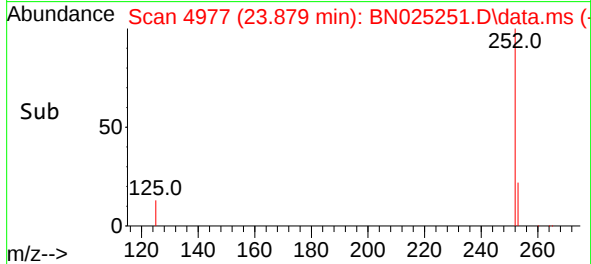
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



Tgt Ion:252 Resp: 785812  
Ion Ratio Lower Upper  
252 100  
253 23.6 21.4 32.2  
125 18.3 14.6 22.0

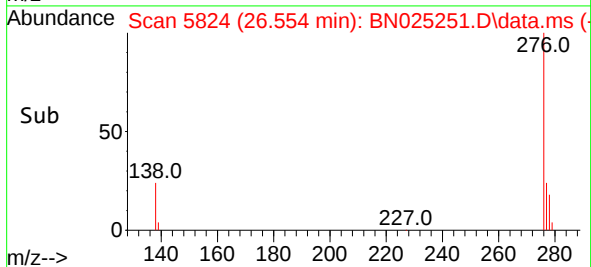
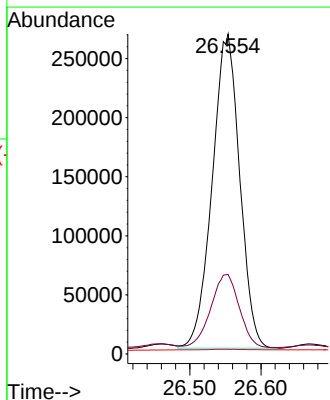
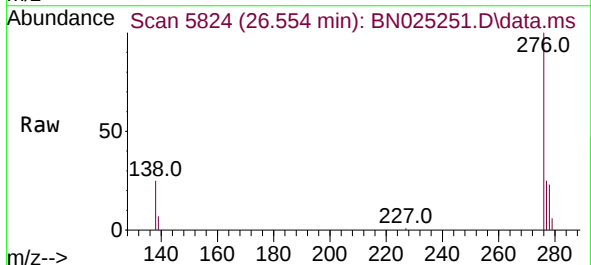
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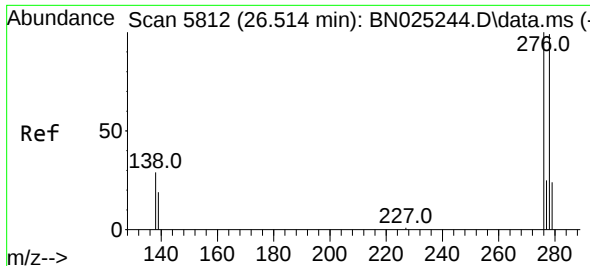
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 11.591 ng/ul  
RT: 26.554 min Scan# 5824  
Delta R.T. 0.078 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

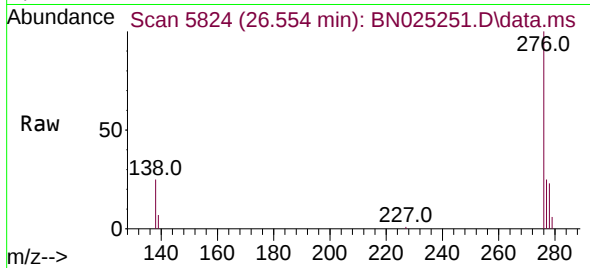
Tgt Ion:276 Resp: 712299  
Ion Ratio Lower Upper  
276 100  
138 24.1 21.9 32.9  
227 0.1 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 3.778 ng/ul  
RT: 26.554 min Scan# 5812  
Delta R.T. 0.061 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06

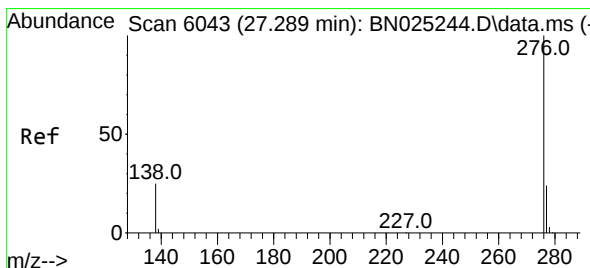
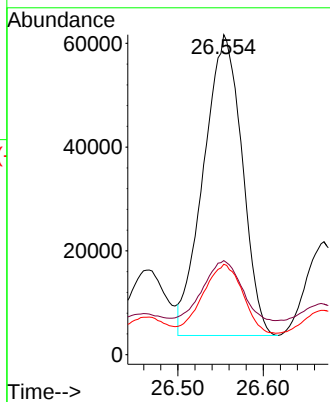
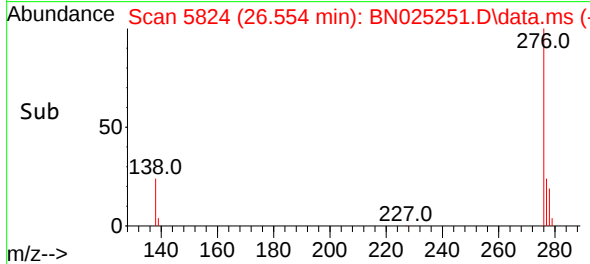
Instrument :  
BNA\_N  
ClientSampleId :  
EW938



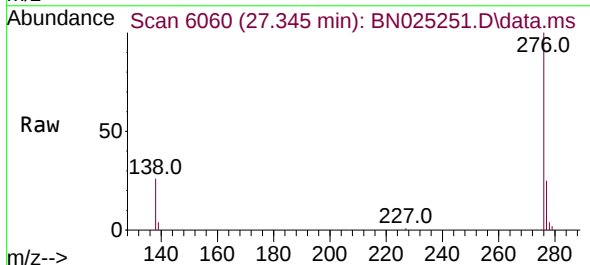
Tgt Ion:278 Resp: 181340  
Ion Ratio Lower Upper  
278 100  
139 29.4 17.0 25.6  
279 28.3 21.8 32.8

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#29  
Benzo(g,h,i)perylene  
Concen: 13.735 ng/ul  
RT: 27.345 min Scan# 6060  
Delta R.T. 0.085 min  
Lab File: BN025251.D  
Acq: 03 May 2023 22:06



Tgt Ion:276 Resp: 717684  
Ion Ratio Lower Upper  
276 100  
138 26.0 20.3 30.5  
277 25.0 19.8 29.6

