

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
 Data File : BN025260.D  
 Acq On : 04 May 2023 03:28  
 Operator : CG/JU  
 Sample : 02447-02DL 5X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EW907DL

Manual Integrations  
 APPROVED

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

Quant Time: May 04 06:27:31 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  | 6246     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.730 | 136  | 21003    | 0.400 | ng/ul  | 0.01     |
| 9) Acenaphthene-d10         | 14.570 | 164  | 12467    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.321 | 188  | 27864    | 0.400 | ng/ul  | # 0.01   |
| 17) Chrysene-d12            | 21.519 | 240  | 20109    | 0.400 | ng/ul  | # 0.01   |
| 23) Perylene-d12            | 23.972 | 264  | 18830    | 0.400 | ng/ul  | # 0.03   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.297  | 96   | 2712     | 0.419 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.325 | 152  | 922      | 0.034 | ng/ul  | 0.02     |
| 18) Fluoranthene-d10        | 19.353 | 212  | 2282     | 0.043 | ng/ul  | 0.01     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.780 | 128  | 1669     | 0.031 | ng/ul# | 82       |
| 7) 2-Methylnaphthalene      | 12.397 | 142  | 920      | 0.028 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.617 | 142  | 703      | 0.020 | ng/ul  | 98       |
| 10) Acenaphthylene          | 14.287 | 152  | 13548    | 0.292 | ng/ul  | 94       |
| 11) Acenaphthene            | 14.630 | 153  | 2196     | 0.056 | ng/ul# | 90       |
| 12) Fluorene                | 15.620 | 166  | 3283     | 0.075 | ng/ul# | 84       |
| 15) Phenanthrene            | 17.363 | 178  | 51021    | 0.649 | ng/ul  | 96       |
| 16) Anthracene              | 17.452 | 178  | 11982    | 0.186 | ng/ul# | 81       |
| 19) Fluoranthene            | 19.381 | 202  | 133120   | 1.831 | ng/ul  | 98       |
| 20) Pyrene                  | 19.748 | 202  | 115801   | 1.550 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.502 | 228  | 53575    | 0.884 | ng/ul# | 88       |
| 22) Chrysene                | 21.554 | 228  | 59918    | 0.906 | ng/ul# | 88       |
| 24) Benzo(b)fluoranthene    | 23.220 | 252  | 68695m   | 0.899 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.267 | 252  | 23242m   | 0.316 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.863 | 252  | 42397    | 0.671 | ng/ul# | 66       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.536 | 276  | 30431    | 0.418 | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 26.536 | 278  | 7548     | 0.133 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.328 | 276  | 30731    | 0.496 | ng/ul# | 76       |
| -----                       |        |      |          |       |        |          |

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

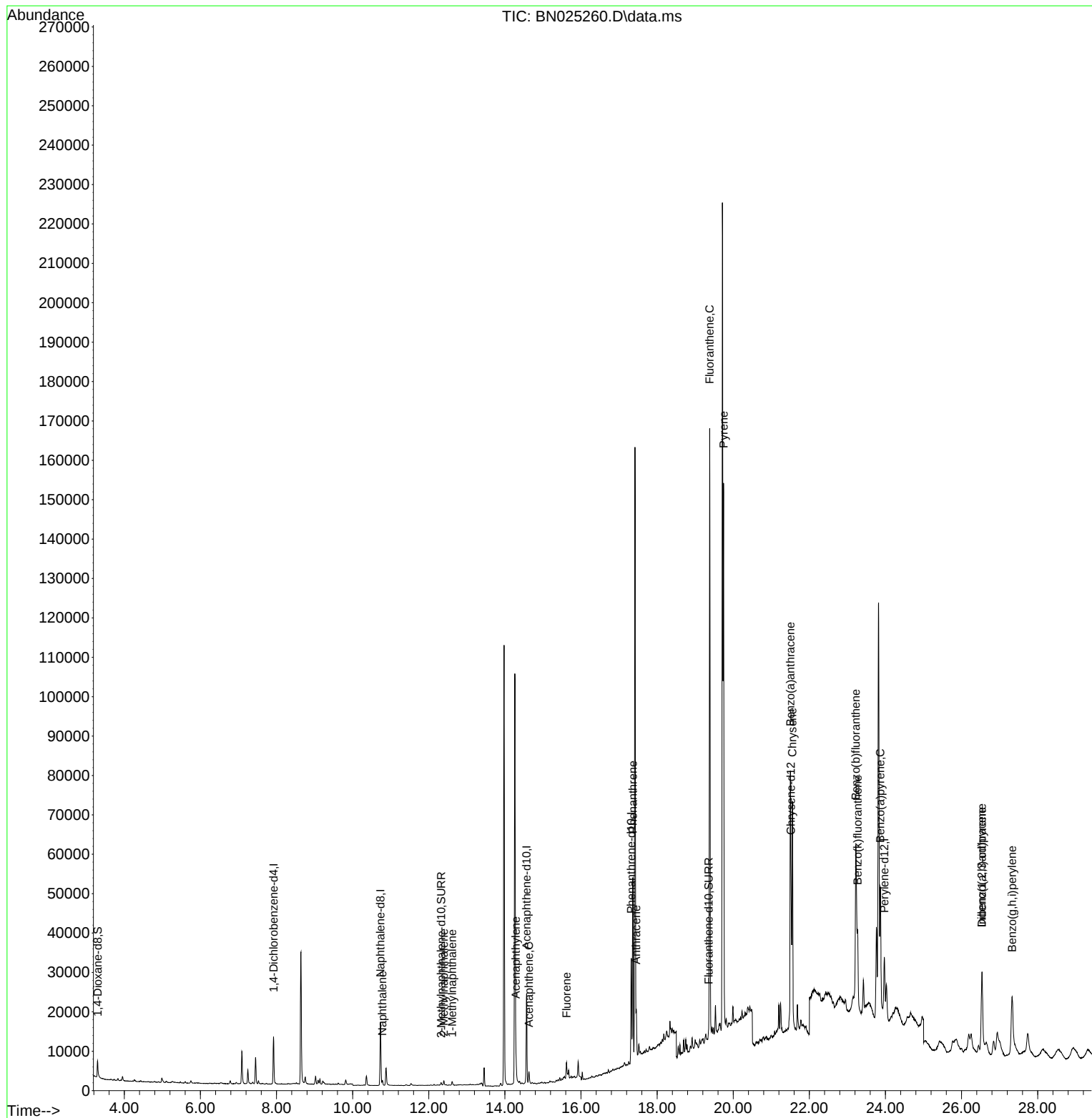
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN050323\  
Data File : BN025260.D  
Acq On : 04 May 2023 03:28  
Operator : CG/JU  
Sample : 02447-02DL 5X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

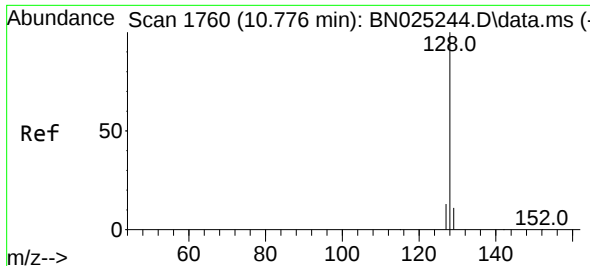
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL

Quant Time: May 04 06:27:31 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

Manual Integrations  
APPROVED

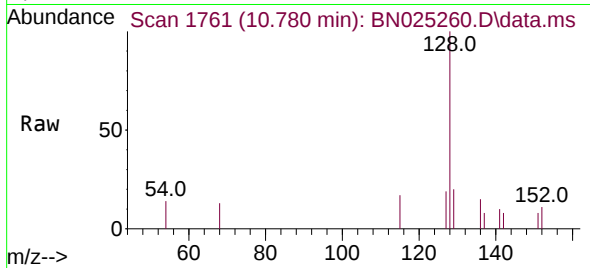
Reviewed By : Christian Giraldo 05/04/2023  
Supervised By : Jagrut Upadhyay 05/04/2023





#5  
Naphthalene  
Concen: 0.031 ng/ul  
RT: 10.780 min Scan# 1761  
Delta R.T. 0.011 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

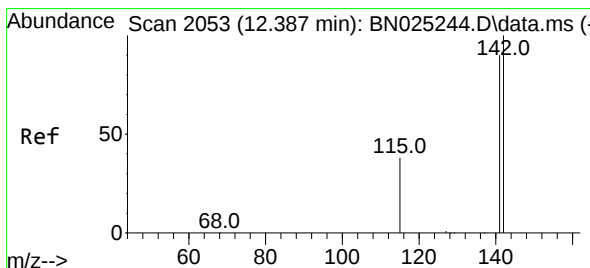
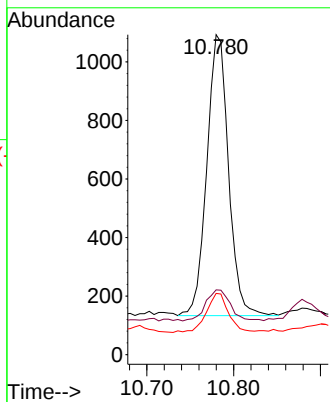
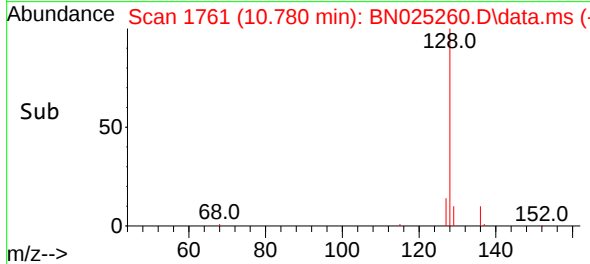
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



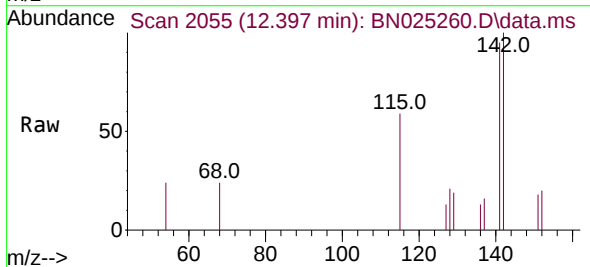
Tgt Ion:128 Resp: 1669  
Ion Ratio Lower Upper  
128 100  
129 20.2 9.0 13.6  
127 19.1 10.7 16.1

Manual Integrations  
APPROVED

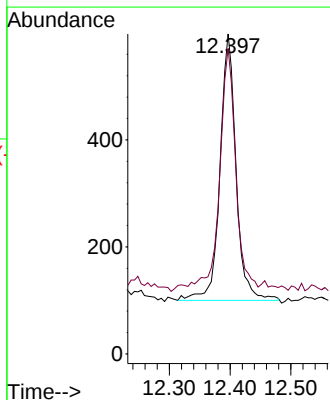
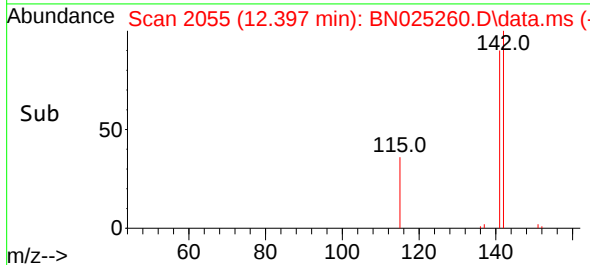
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

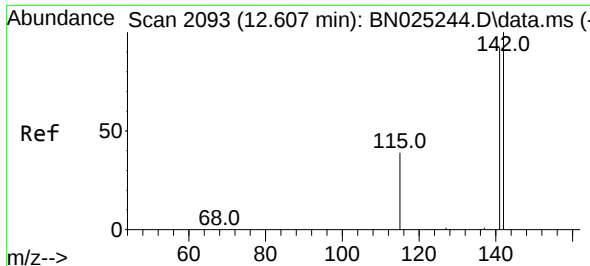


#7  
2-Methylnaphthalene  
Concen: 0.028 ng/ul  
RT: 12.397 min Scan# 2055  
Delta R.T. 0.011 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28



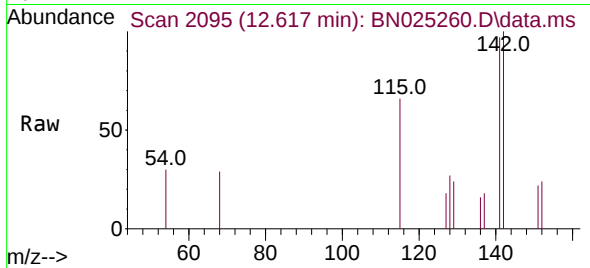
Tgt Ion:142 Resp: 920  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.4 107.0





#8  
1-Methylnaphthalene  
Concen: 0.020 ng/ul  
RT: 12.617 min Scan# 2095  
Delta R.T. 0.011 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

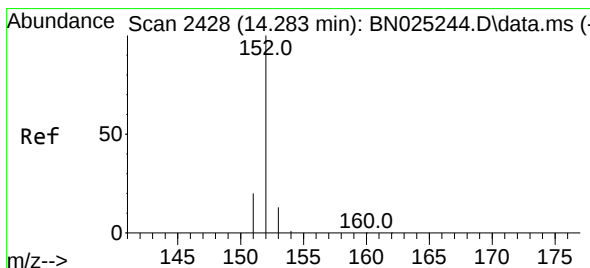
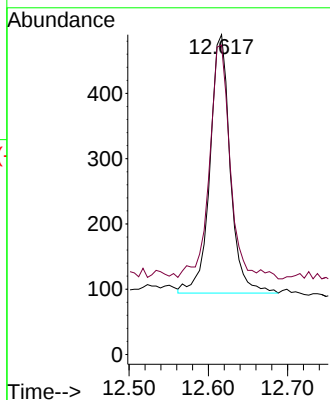
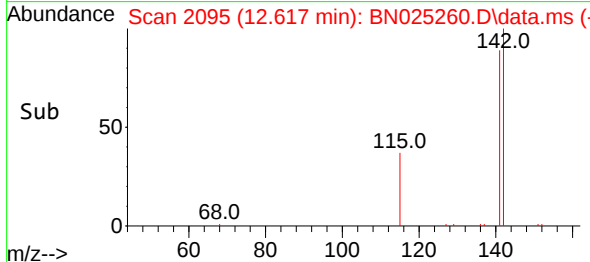
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



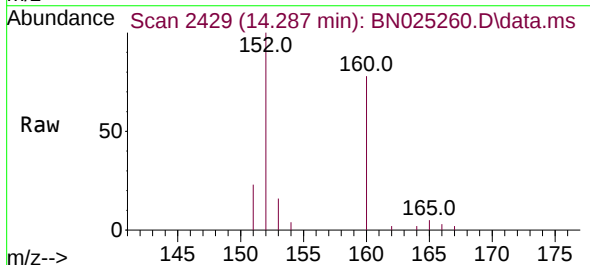
Tgt Ion:142 Resp: 700  
Ion Ratio Lower Upper  
142 100  
141 94.0 73.8 110.6

Manual Integrations  
APPROVED

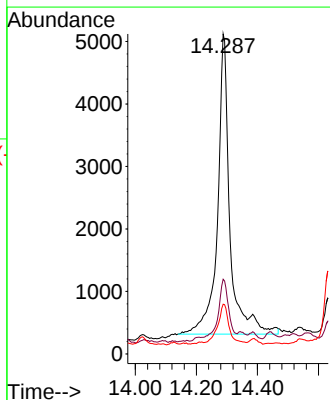
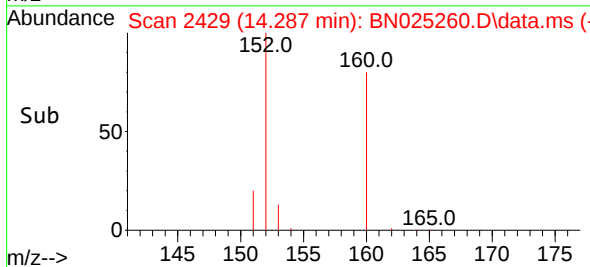
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

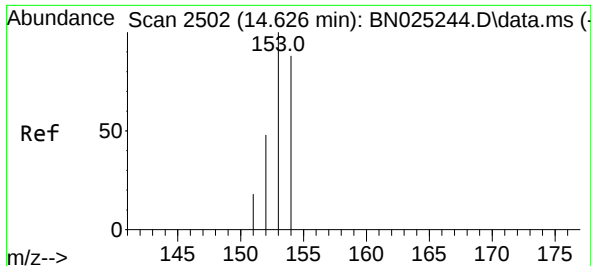


#10  
Acenaphthylene  
Concen: 0.292 ng/ul  
RT: 14.287 min Scan# 2429  
Delta R.T. 0.010 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28



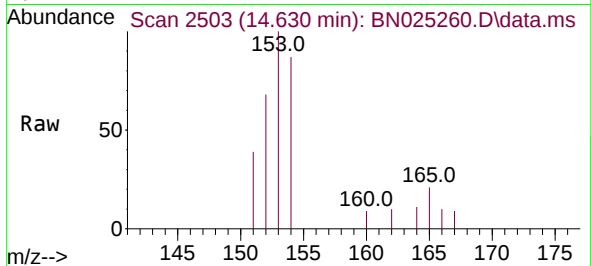
Tgt Ion:152 Resp: 13548  
Ion Ratio Lower Upper  
152 100  
151 23.4 16.0 24.0  
153 15.5 10.8 16.2





#11  
Acenaphthene  
Concen: 0.056 ng/ul  
RT: 14.630 min Scan# 2190  
Delta R.T. 0.010 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

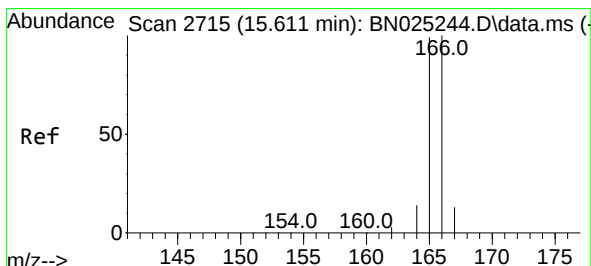
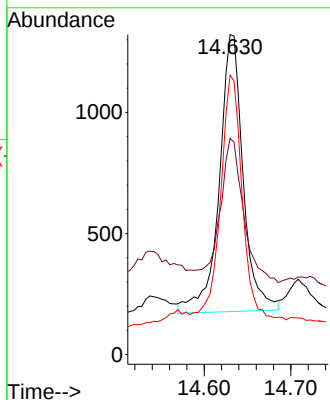
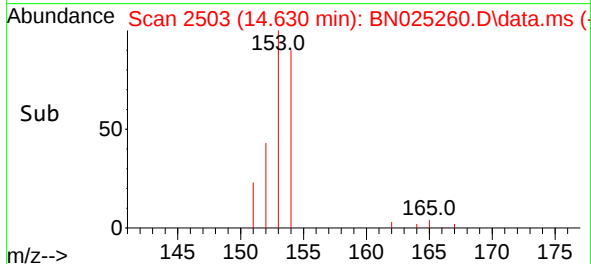
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



Tgt Ion:153 Resp: 2190  
Ion Ratio Lower Upper  
153 100  
152 67.6 40.2 60.4  
154 87.4 69.4 104.2

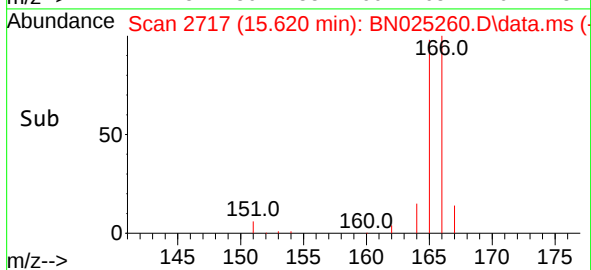
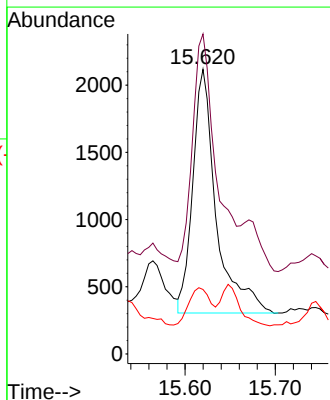
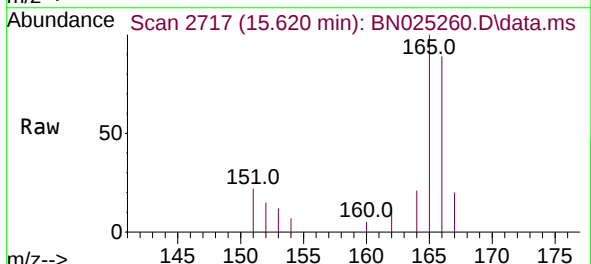
Manual Integrations  
APPROVED

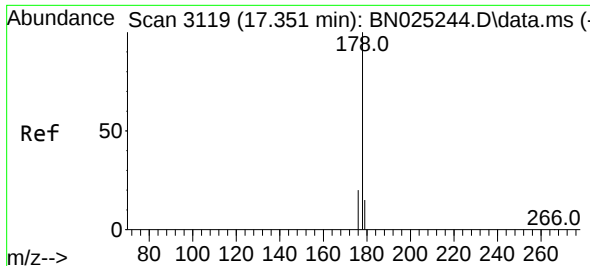
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#12  
Fluorene  
Concen: 0.075 ng/ul  
RT: 15.620 min Scan# 2717  
Delta R.T. 0.010 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

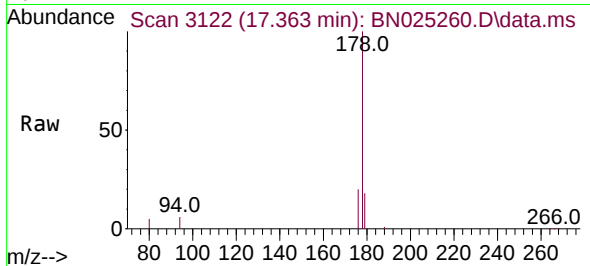
Tgt Ion:166 Resp: 3283  
Ion Ratio Lower Upper  
166 100  
165 112.4 78.1 117.1  
167 22.7 11.0 16.6





#15  
Phenanthrene  
Concen: 0.649 ng/ul  
RT: 17.363 min Scan# 3119  
Delta R.T. 0.013 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

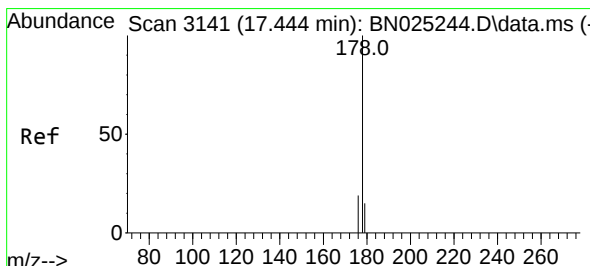
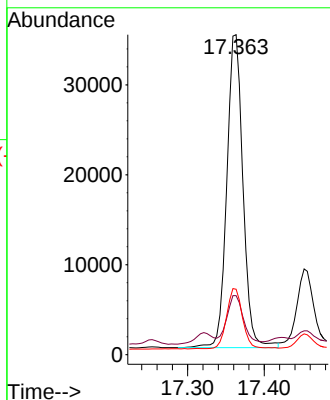
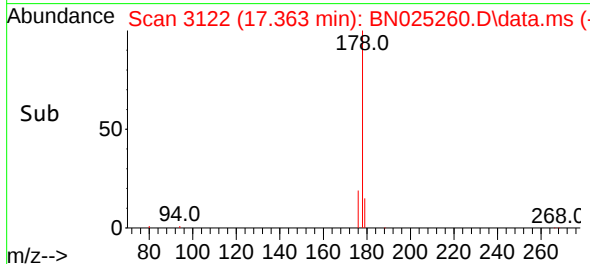
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



Tgt Ion:178 Resp: 5102  
Ion Ratio Lower Upper  
178 100  
179 18.4 12.5 18.7  
176 20.4 15.6 23.4

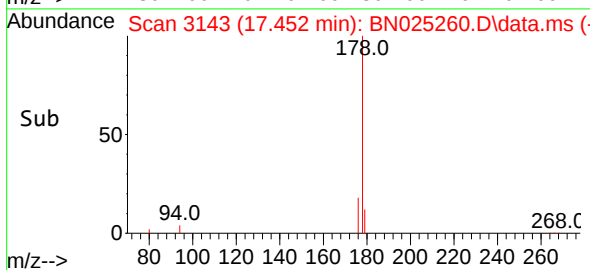
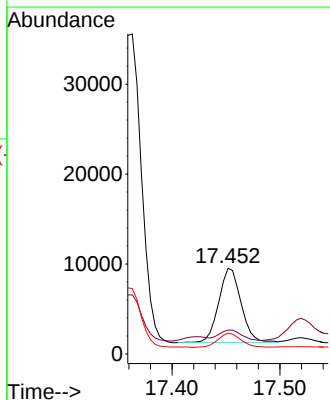
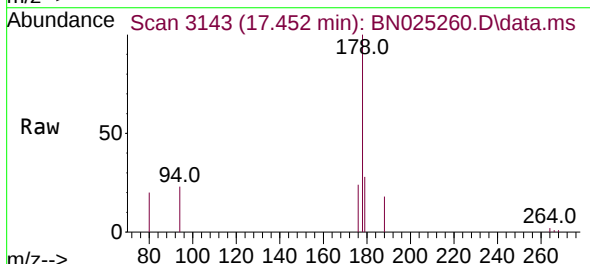
Manual Integrations  
APPROVED

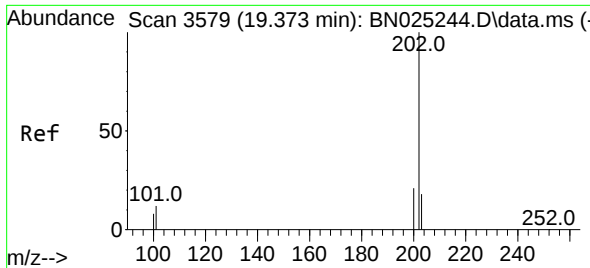
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#16  
Anthracene  
Concen: 0.186 ng/ul  
RT: 17.452 min Scan# 3143  
Delta R.T. 0.009 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

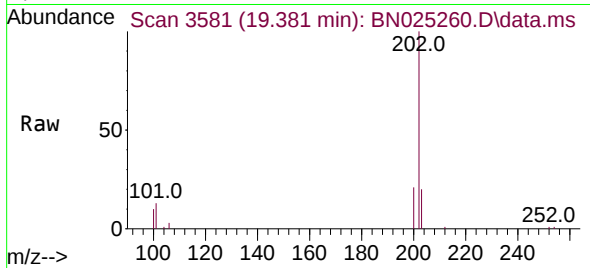
Tgt Ion:178 Resp: 11982  
Ion Ratio Lower Upper  
178 100  
179 27.7 12.7 19.1#  
176 24.3 15.3 22.9#





#19  
Fluoranthene  
Concen: 1.831 ng/u1  
RT: 19.381 min Scan# 3581  
Delta R.T. 0.010 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

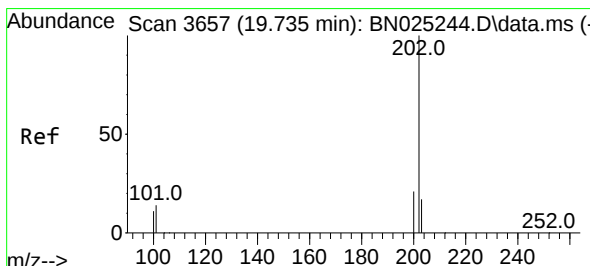
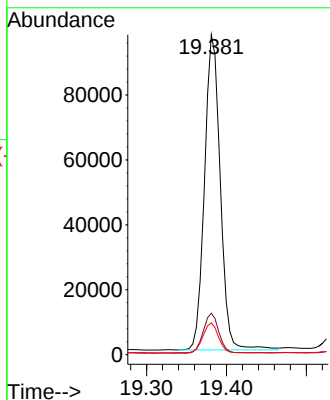
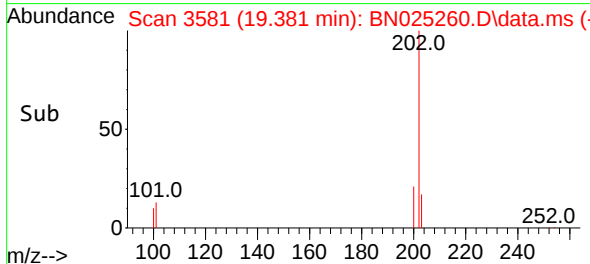
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



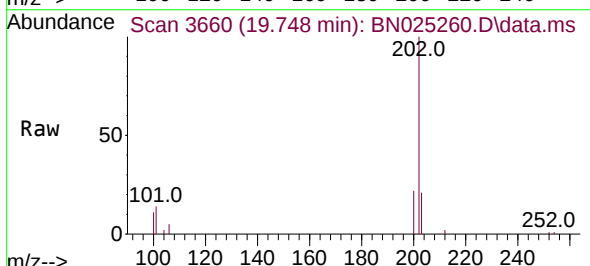
Tgt Ion:202 Resp: 133120  
Ion Ratio Lower Upper  
202 100  
101 12.9 9.7 14.5  
100 10.0 7.3 10.9

Manual Integrations  
APPROVED

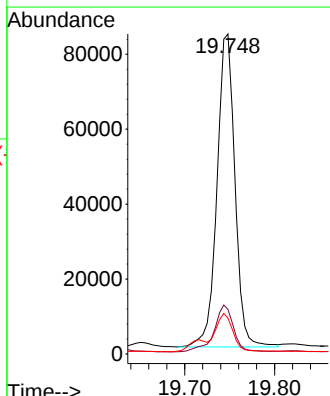
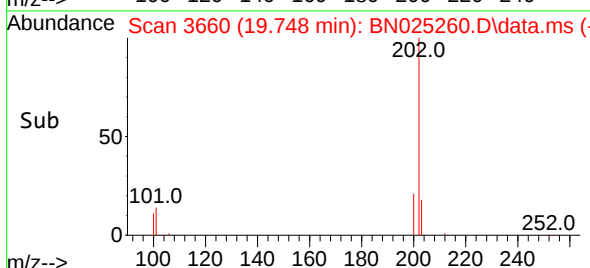
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

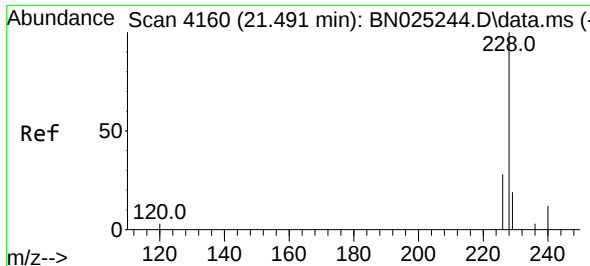


#20  
Pyrene  
Concen: 1.550 ng/u1  
RT: 19.748 min Scan# 3660  
Delta R.T. 0.014 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28



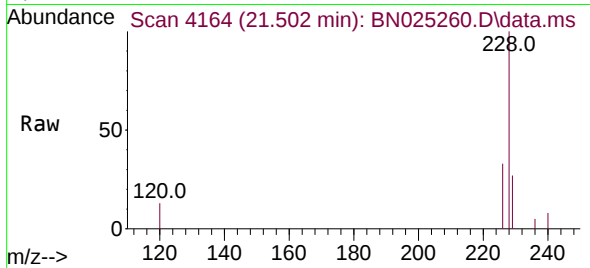
Tgt Ion:202 Resp: 115801  
Ion Ratio Lower Upper  
202 100  
101 14.0 11.3 16.9  
100 11.2 9.2 13.8





#21  
Benzo(a)anthracene  
Concen: 0.884 ng/u1  
RT: 21.502 min Scan# 4164  
Delta R.T. 0.015 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

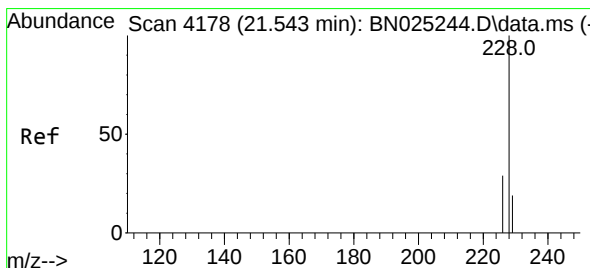
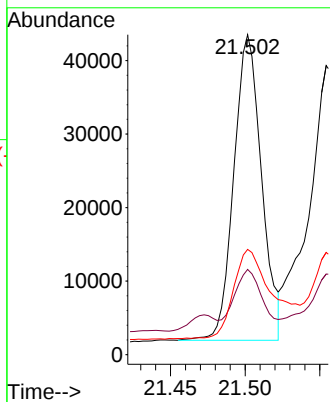
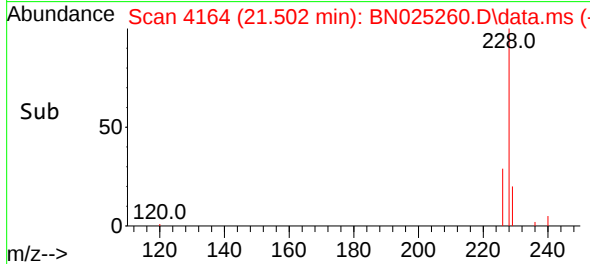
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



Tgt Ion:228 Resp: 53579  
Ion Ratio Lower Upper  
228 100  
229 26.7 15.6 23.4#  
226 32.9 22.1 33.1

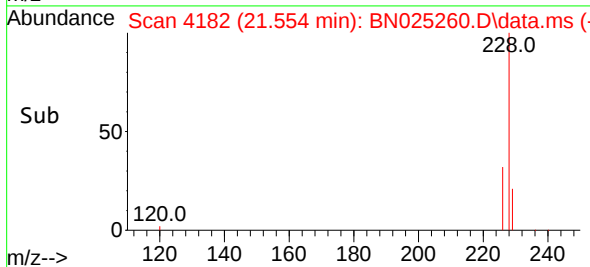
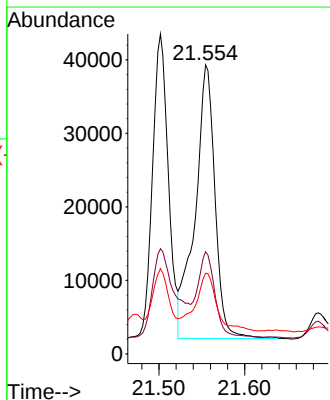
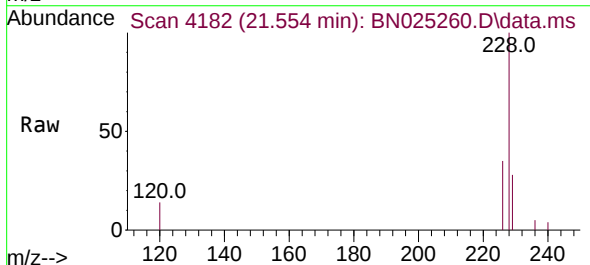
Manual Integrations  
APPROVED

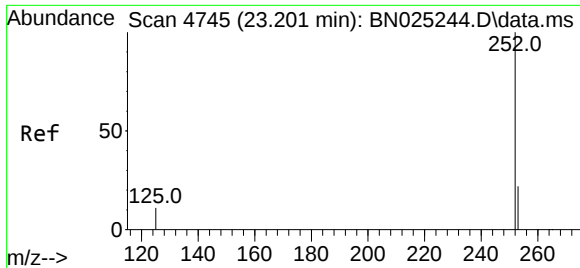
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#22  
Chrysene  
Concen: 0.906 ng/u1  
RT: 21.554 min Scan# 4182  
Delta R.T. 0.015 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

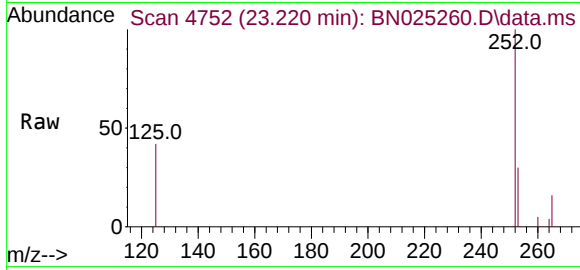
Tgt Ion:228 Resp: 59918  
Ion Ratio Lower Upper  
228 100  
226 35.3 24.5 36.7  
229 27.9 15.8 23.6#





#24  
Benzo(b)fluoranthene  
Concen: 0.899 ng/ul m  
RT: 23.220 min Scan# 4752  
Delta R.T. 0.024 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

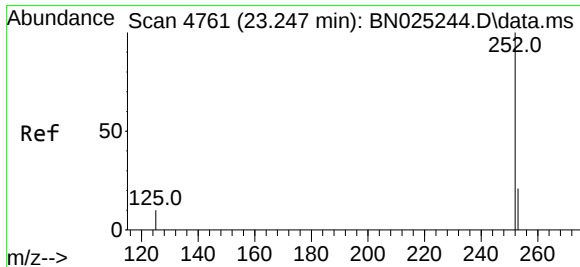
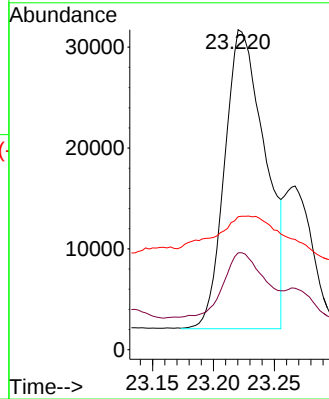
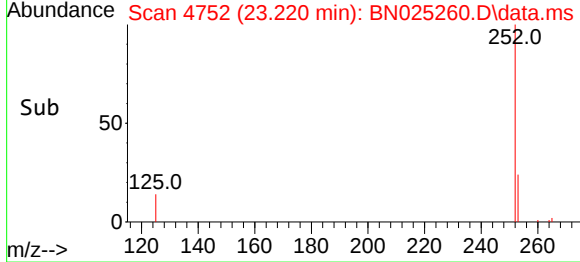
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



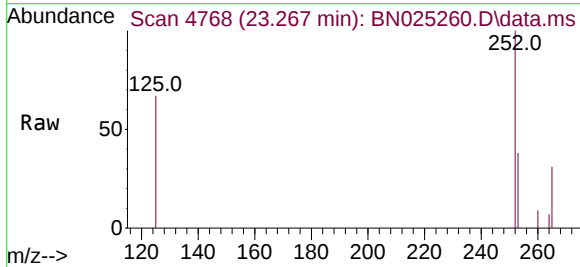
Tgt Ion:252 Resp: 6869  
Ion Ratio Lower Upper  
252 100  
253 30.3 0.0 50.2  
125 41.5 0.0 30.4

Manual Integrations  
APPROVED

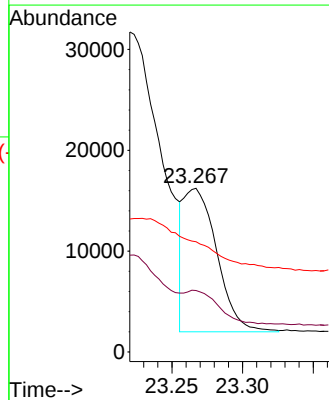
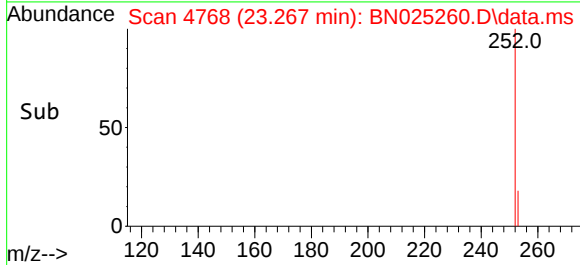
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023

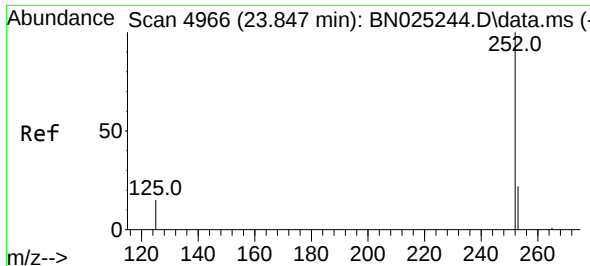


#25  
Benzo(k)fluoranthene  
Concen: 0.316 ng/ul m  
RT: 23.267 min Scan# 4768  
Delta R.T. 0.021 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28



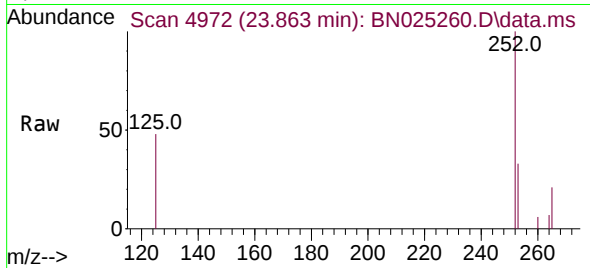
Tgt Ion:252 Resp: 23242  
Ion Ratio Lower Upper  
252 100  
253 37.5 20.2 30.4#  
125 67.4 11.8 17.8#





#26  
Benzo(a)pyrene  
Concen: 0.671 ng/ul  
RT: 23.863 min Scan# 4966  
Delta R.T. 0.035 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

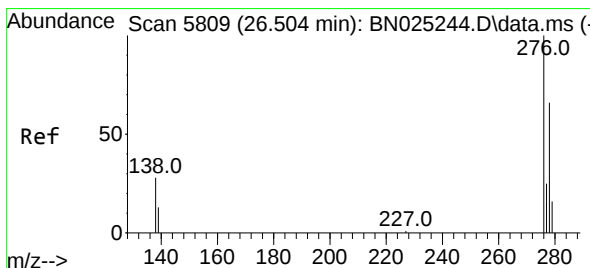
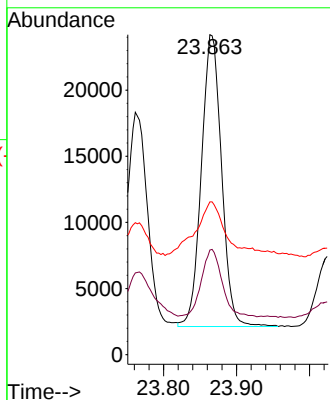
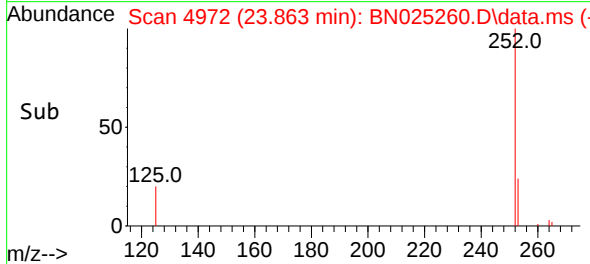
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



Tgt Ion:252 Resp: 42397  
Ion Ratio Lower Upper  
252 100  
253 32.7 21.4 32.2  
125 47.7 14.6 22.0

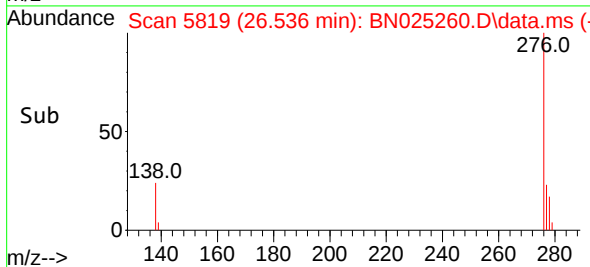
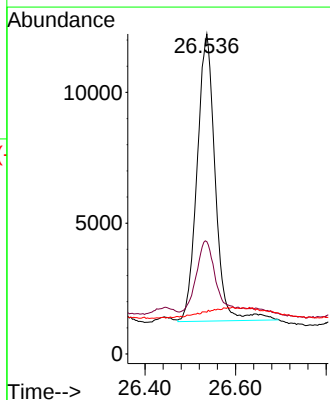
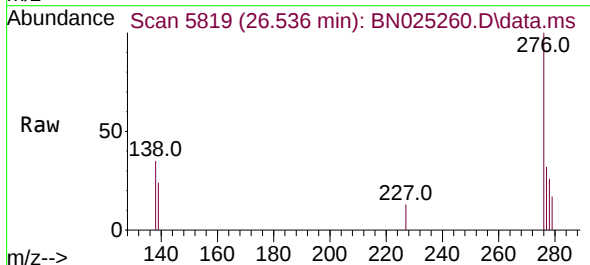
Manual Integrations  
APPROVED

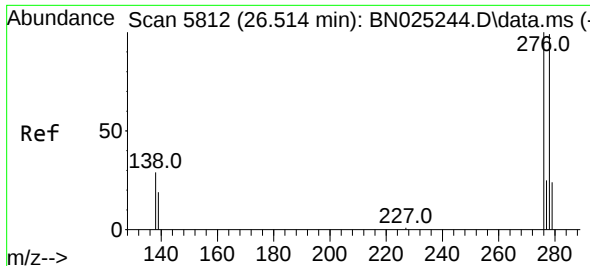
Reviewed By :Christian Giraldo 05/04/2023  
Supervised By :Jagrut Upadhyay 05/04/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.418 ng/ul  
RT: 26.536 min Scan# 5819  
Delta R.T. 0.061 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

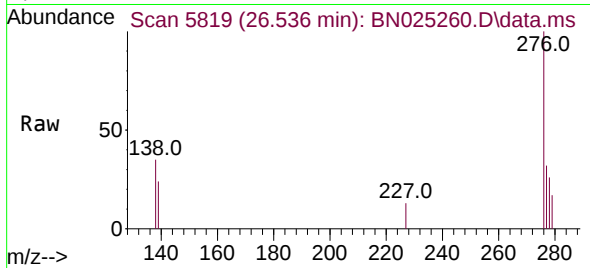
Tgt Ion:276 Resp: 30431  
Ion Ratio Lower Upper  
276 100  
138 29.8 21.9 32.9  
227 0.0 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.133 ng/ul  
RT: 26.536 min Scan# 5819  
Delta R.T. 0.044 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28

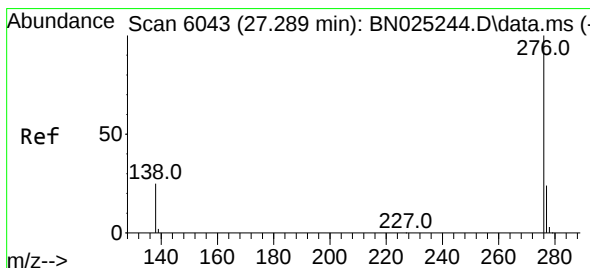
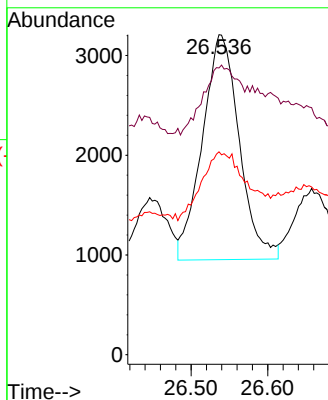
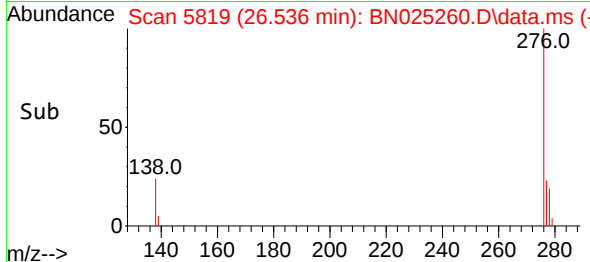
Instrument :  
BNA\_N  
ClientSampleId :  
EW907DL



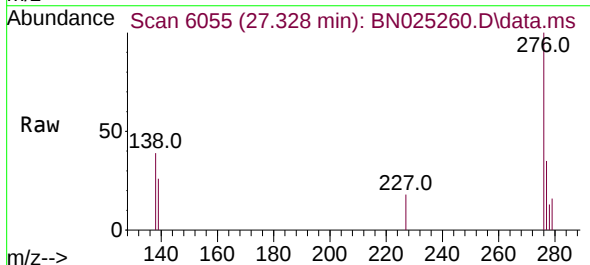
Tgt Ion: 278 Resp: 7548  
Ion Ratio Lower Upper  
278 100  
139 89.6 17.0 25.6#  
279 63.4 21.8 32.8#

Manual Integrations  
APPROVED

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



#29  
Benzo(g,h,i)perylene  
Concen: 0.496 ng/ul  
RT: 27.328 min Scan# 6055  
Delta R.T. 0.067 min  
Lab File: BN025260.D  
Acq: 04 May 2023 03:28



Tgt Ion: 276 Resp: 30731  
Ion Ratio Lower Upper  
276 100  
138 38.8 20.3 30.5#  
277 35.0 19.8 29.6#

