

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
 Data File : BN026905.D  
 Acq On : 15 Aug 2023 17:33  
 Operator : MA/JU  
 Sample : 03965-05  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48H1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

Quant Time: Aug 16 00:54:28 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 16 00:50:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.110  | 152  | 15662    | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.938 | 136  | 53402    | 0.400  | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.735 | 164  | 31355    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.481 | 188  | 71479    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.659 | 240  | 61102    | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.208 | 264  | 55194    | 0.400  | ng/ul  | # 0.00   |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.439  | 96   | 43910    | 2.362  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.511 | 152  | 15068    | 0.192  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.501 | 212  | 39076    | 0.203  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 5) Naphthalene              | 10.988 | 128  | 33518    | 0.222  | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.583 | 142  | 13176    | 0.144  | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.797 | 142  | 9655     | 0.101  | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.467 | 152  | 69314    | 0.395  | ng/ul  | 100      |
| 11) Acenaphthene            | 14.800 | 153  | 34090    | 0.280  | ng/ul  | 99       |
| 12) Fluorene                | 15.781 | 166  | 43871    | 0.319  | ng/ul  | 98       |
| 15) Phenanthrene            | 17.523 | 178  | 1163606  | 4.955  | ng/ul  | 99       |
| 16) Anthracene              | 17.616 | 178  | 184726   | 0.870  | ng/ul  | 100      |
| 19) Fluoranthene            | 19.529 | 202  | 3084307  | 12.152 | ng/ul  | 98       |
| 20) Pyrene                  | 19.896 | 202  | 2665262m | 9.842  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.641 | 228  | 1300622  | 5.352  | ng/ul  | 99       |
| 22) Chrysene                | 21.697 | 228  | 1664146  | 6.938  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.419 | 252  | 2168325m | 10.386 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.465 | 252  | 831869m  | 4.040  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 24.094 | 252  | 1304935  | 6.927  | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.905 | 276  | 923851   | 3.749  | ng/ul# | 90       |
| 28) Dibenzo(a,h)anthracene  | 26.928 | 278  | 205447   | 1.046  | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 27.750 | 276  | 842458   | 4.106  | ng/ul  | 99       |
| -----                       |        |      |          |        |        |          |

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

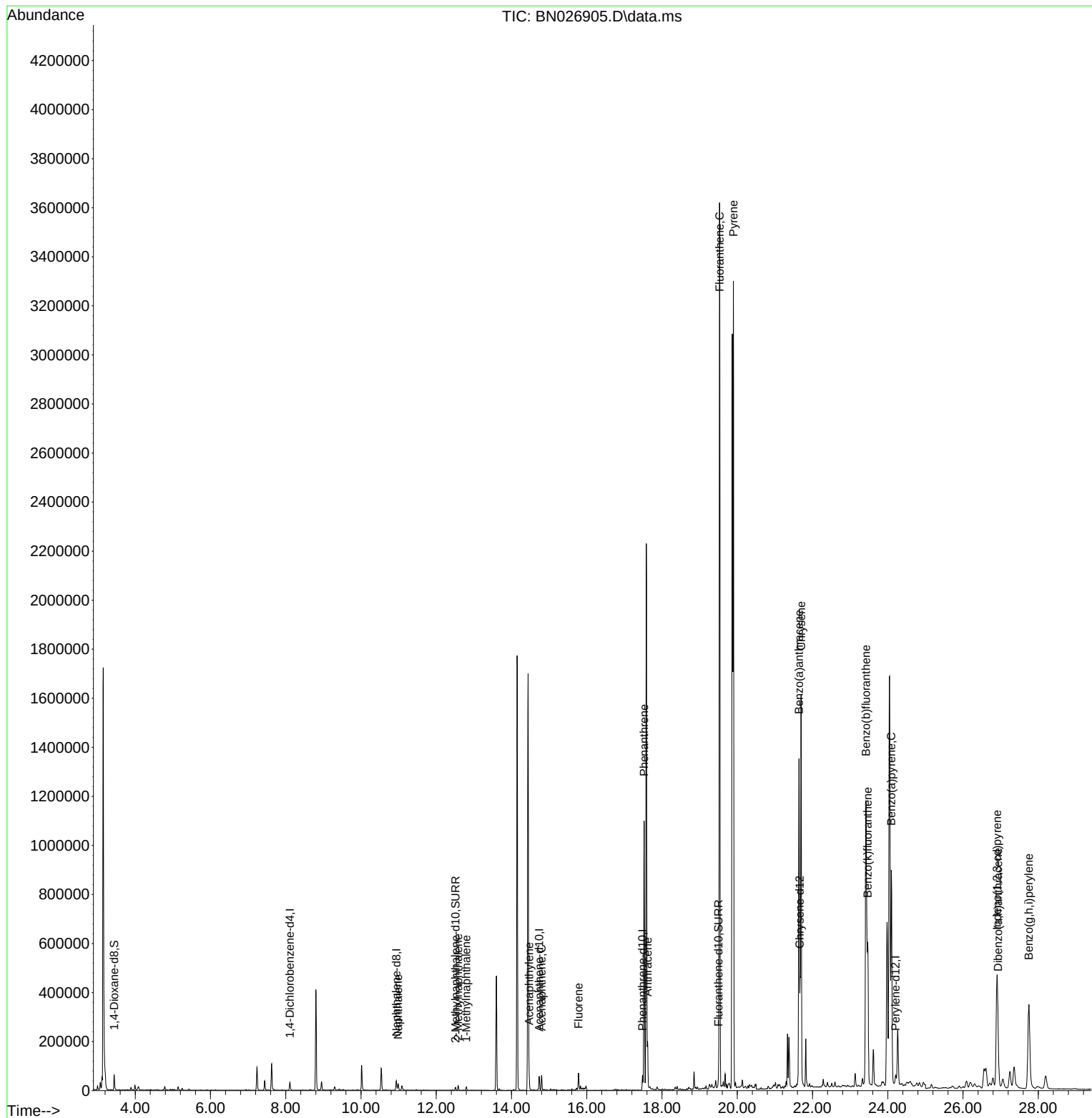
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081523\  
Data File : BN026905.D  
Acq On : 15 Aug 2023 17:33  
Operator : MA/JU  
Sample : 03965-05  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

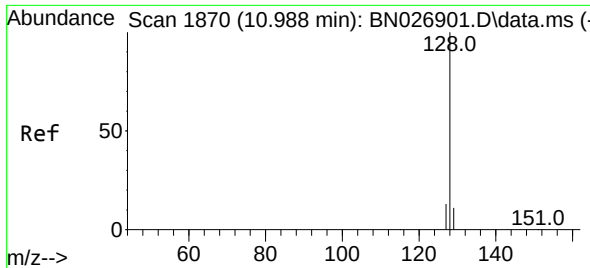
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

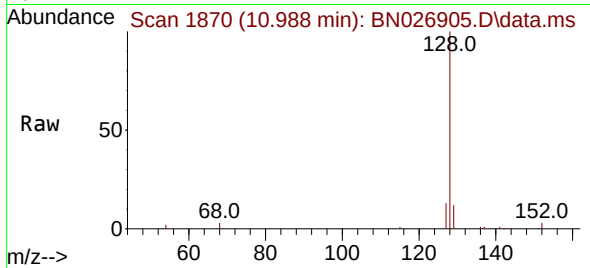
Quant Time: Aug 16 00:54:28 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN080323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 16 00:50:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.222 ng/ul  
RT: 10.988 min Scan# 1870  
Delta R.T. 0.006 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

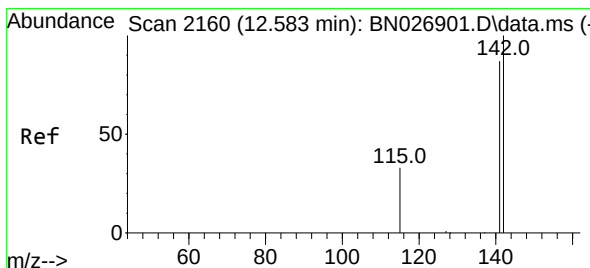
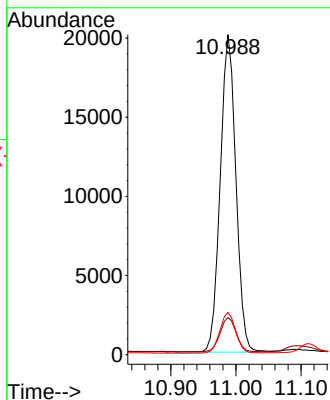
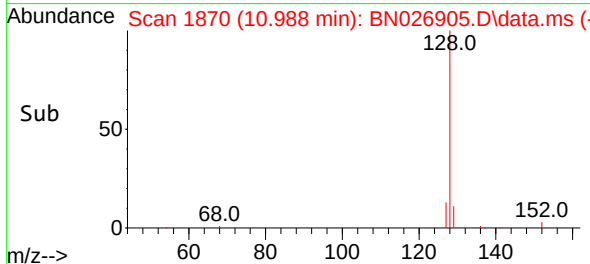
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:128 Resp: 33518  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.2 13.8  
127 13.2 10.5 15.7

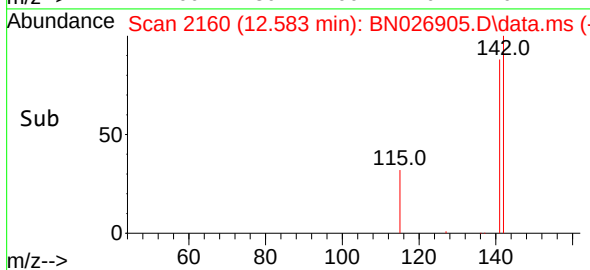
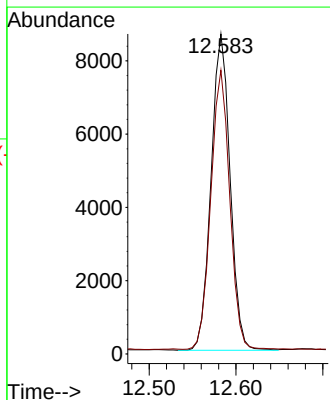
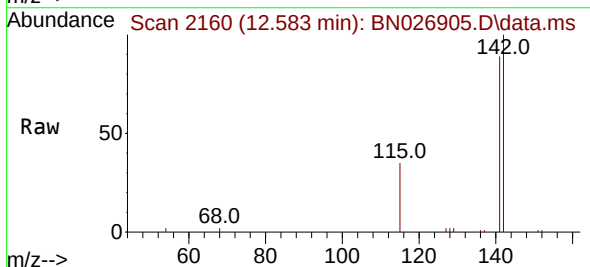
Manual Integrations  
APPROVED

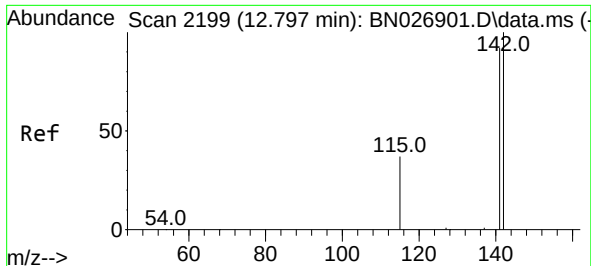
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#7  
2-Methylnaphthalene  
Concen: 0.144 ng/ul  
RT: 12.583 min Scan# 2160  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

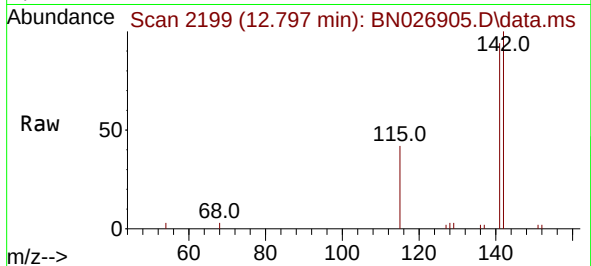
Tgt Ion:142 Resp: 13176  
Ion Ratio Lower Upper  
142 100  
141 87.6 70.9 106.3





#8  
1-Methylnaphthalene  
Concen: 0.101 ng/u1  
RT: 12.797 min Scan# 2199  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

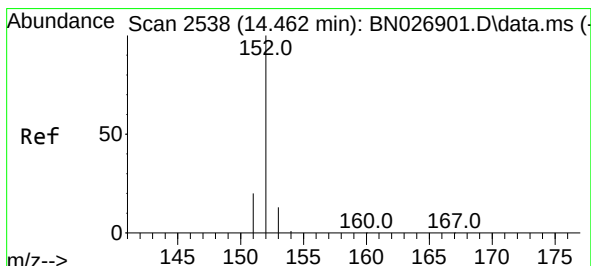
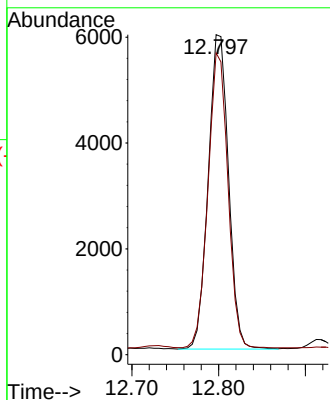
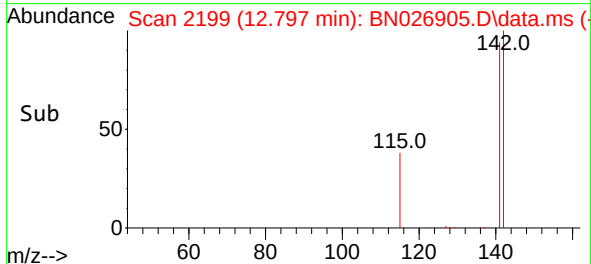
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



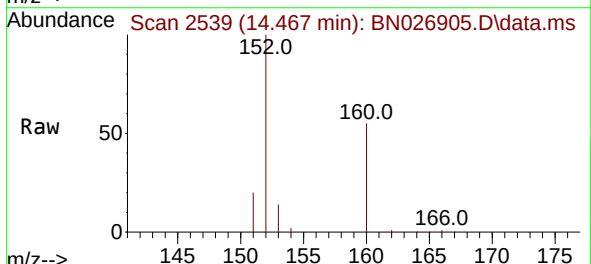
Tgt Ion:142 Resp: 965  
Ion Ratio Lower Upper  
142 100  
141 92.1 73.2 109.8

Manual Integrations  
APPROVED

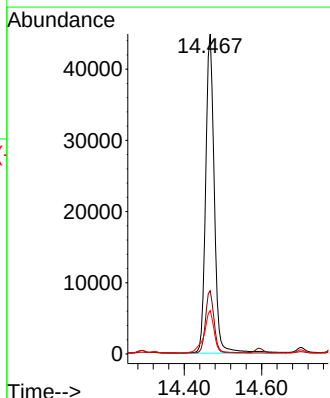
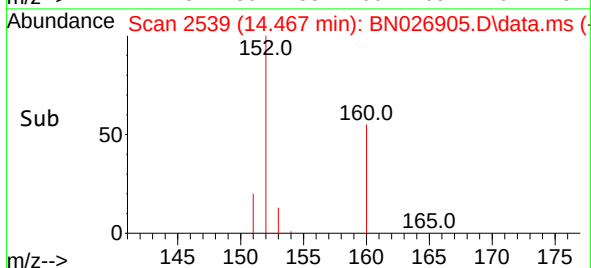
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

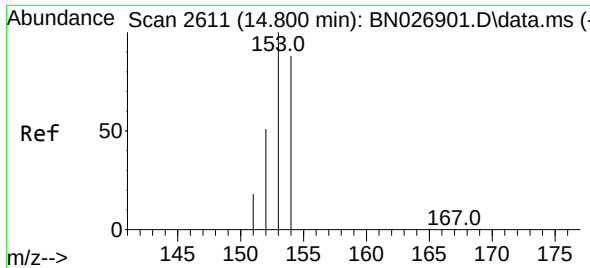


#10  
Acenaphthylene  
Concen: 0.395 ng/u1  
RT: 14.467 min Scan# 2539  
Delta R.T. 0.005 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33



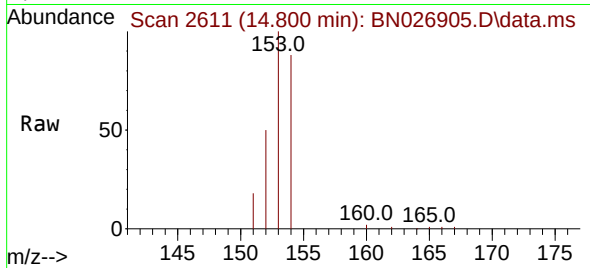
Tgt Ion:152 Resp: 69314  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.9 23.9  
153 13.5 11.0 16.6





#11  
Acenaphthene  
Concen: 0.280 ng/ul  
RT: 14.800 min Scan# 2611  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

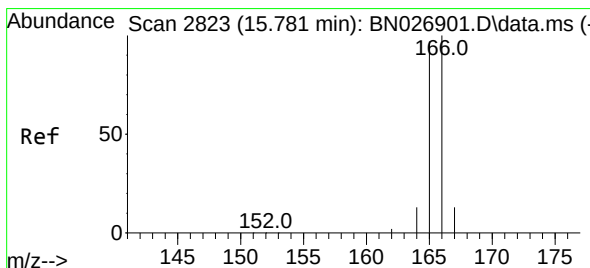
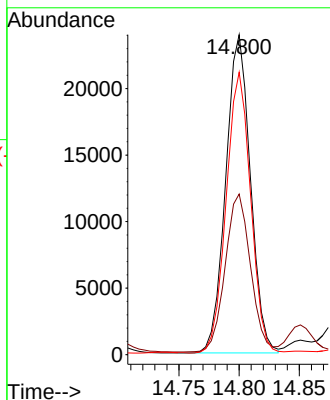
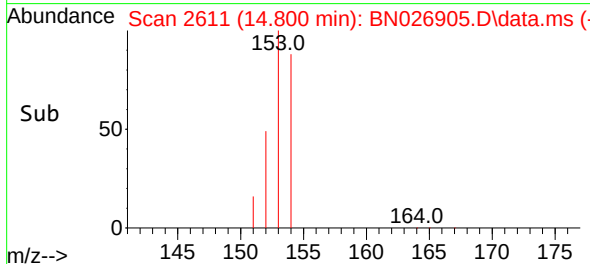
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:153 Resp: 34090  
Ion Ratio Lower Upper  
153 100  
152 50.2 41.1 61.7  
154 88.3 71.6 107.4

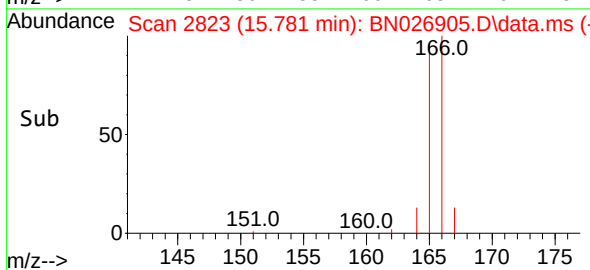
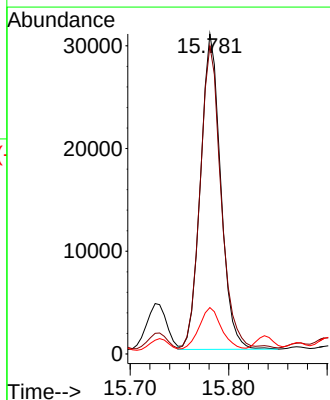
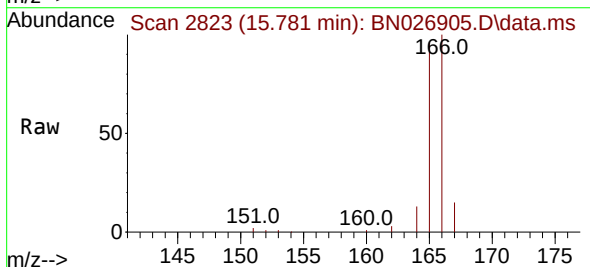
Manual Integrations  
APPROVED

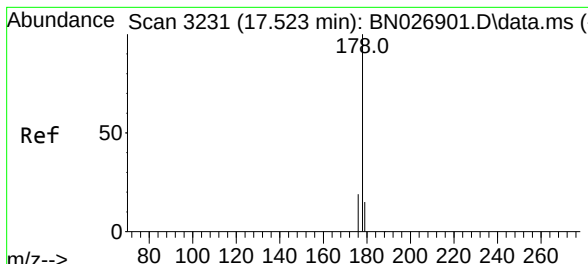
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#12  
Fluorene  
Concen: 0.319 ng/ul  
RT: 15.781 min Scan# 2823  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

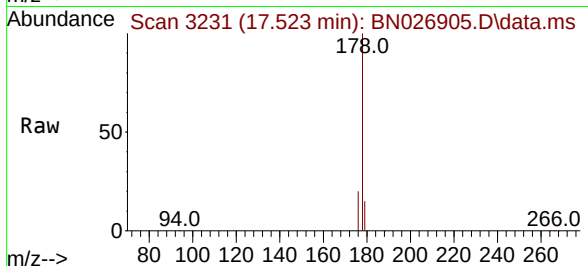
Tgt Ion:166 Resp: 43871  
Ion Ratio Lower Upper  
166 100  
165 96.3 79.1 118.7  
167 14.5 11.4 17.0





#15  
 Phenanthrene  
 Concen: 4.955 ng/u1  
 RT: 17.523 min Scan# 3231  
 Delta R.T. 0.000 min  
 Lab File: BN026905.D  
 Acq: 15 Aug 2023 17:33

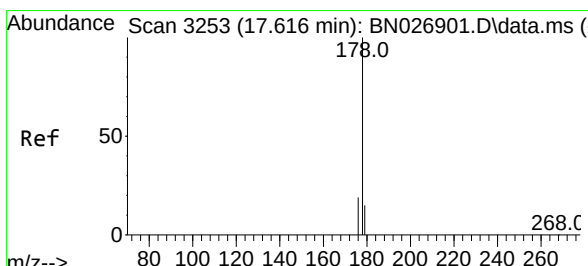
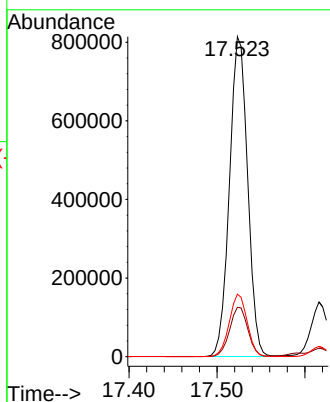
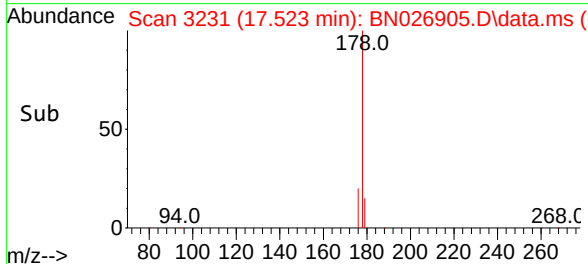
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A48H1



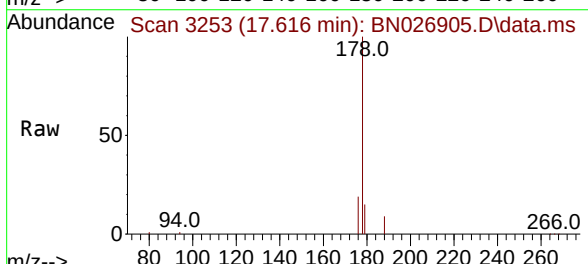
Tgt Ion:178 Resp: 1163600  
 Ion Ratio Lower Upper  
 178 100  
 179 15.4 12.6 18.8  
 176 19.5 15.4 23.2

Manual Integrations  
 APPROVED

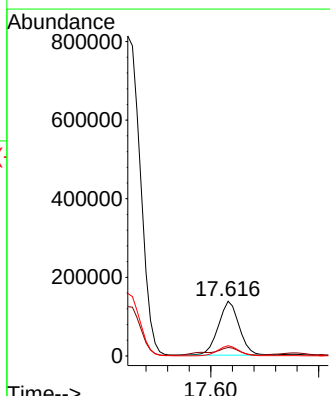
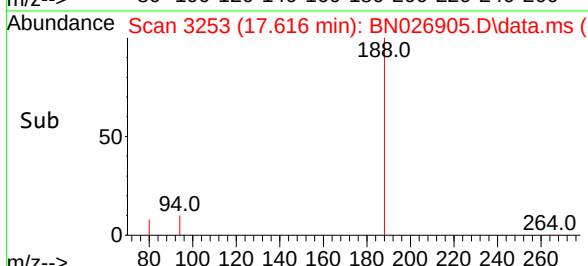
Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

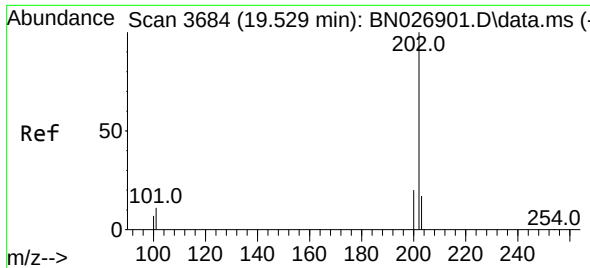


#16  
 Anthracene  
 Concen: 0.870 ng/u1  
 RT: 17.616 min Scan# 3253  
 Delta R.T. 0.000 min  
 Lab File: BN026905.D  
 Acq: 15 Aug 2023 17:33



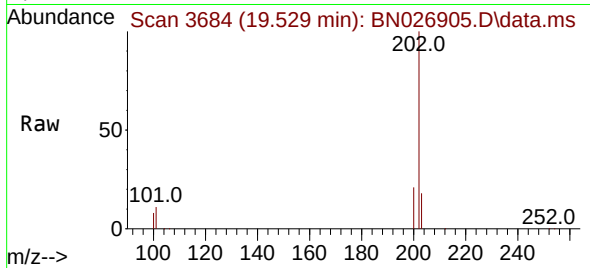
Tgt Ion:178 Resp: 184726  
 Ion Ratio Lower Upper  
 178 100  
 179 15.5 12.6 19.0  
 176 18.7 15.0 22.6





#19  
Fluoranthene  
Concen: 12.152 ng/ul  
RT: 19.529 min Scan# 3684  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

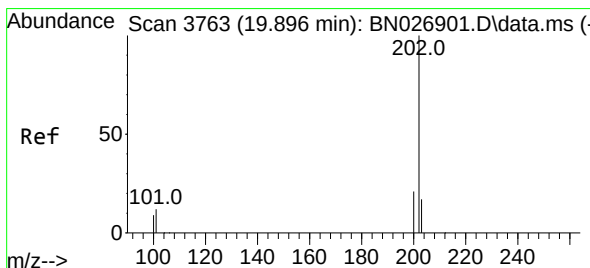
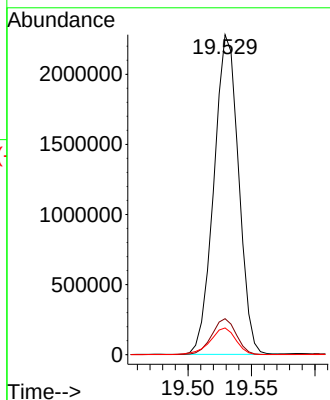
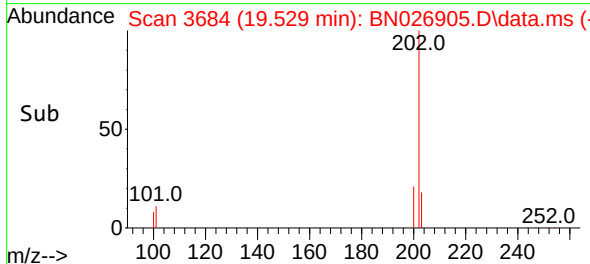
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:202 Resp: 308430  
Ion Ratio Lower Upper  
202 100  
101 11.2 8.3 12.5  
100 8.3 6.2 9.2

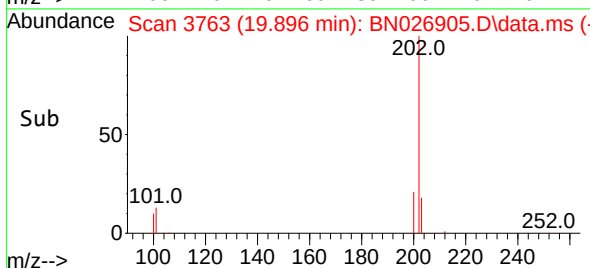
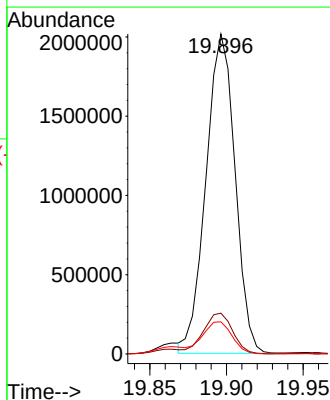
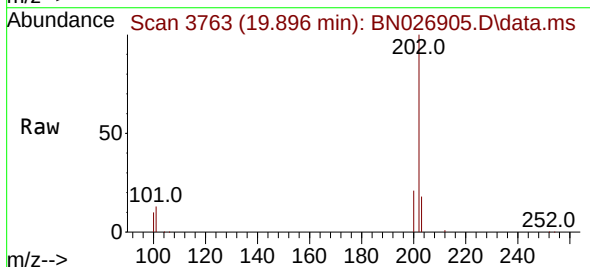
Manual Integrations  
APPROVED

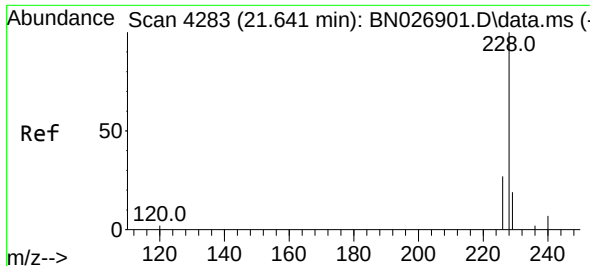
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#20  
Pyrene  
Concen: 9.842 ng/ul m  
RT: 19.896 min Scan# 3763  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

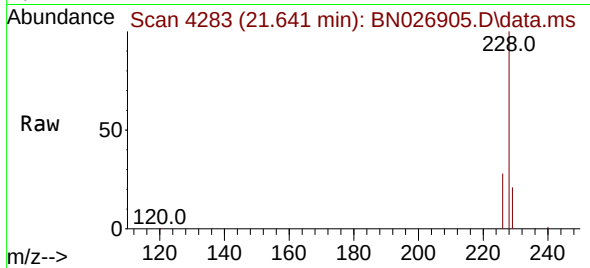
Tgt Ion:202 Resp: 2665262  
Ion Ratio Lower Upper  
202 100  
101 12.7 10.7 16.1  
100 10.1 8.5 12.7





#21  
Benzo(a)anthracene  
Concen: 5.352 ng/u1  
RT: 21.641 min Scan# 4302  
Delta R.T. 0.000 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

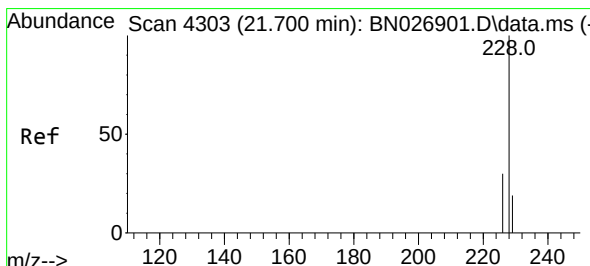
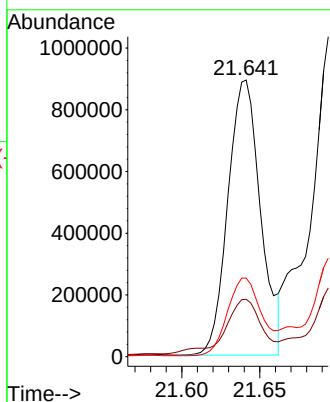
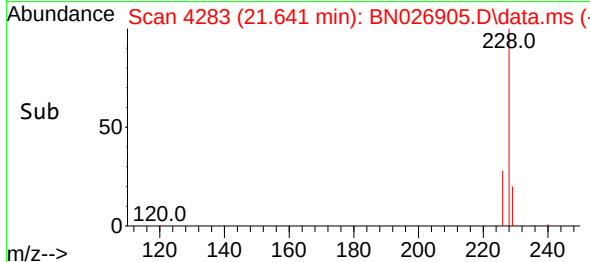
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:228 Resp: 130062  
Ion Ratio Lower Upper  
228 100  
229 20.8 16.0 24.0  
226 28.4 22.2 33.2

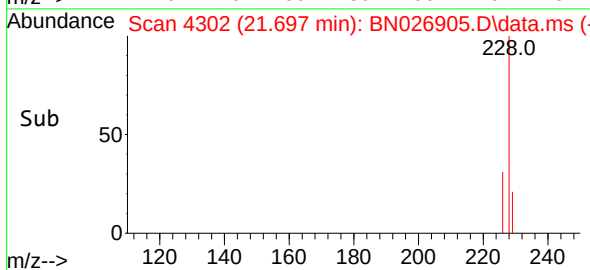
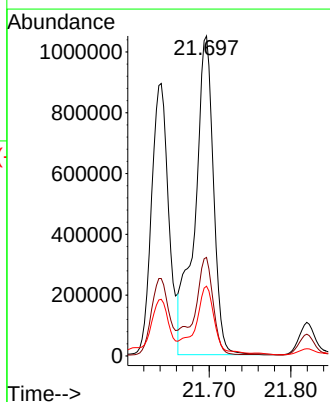
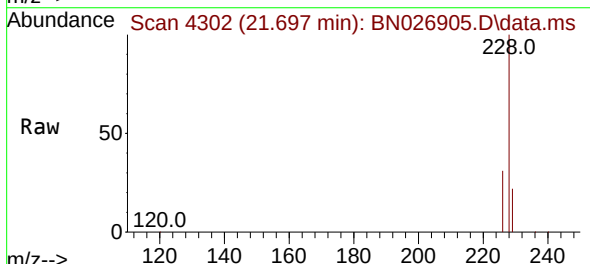
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

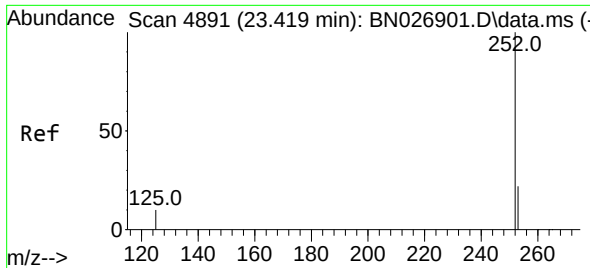


#22  
Chrysene  
Concen: 6.938 ng/u1  
RT: 21.697 min Scan# 4302  
Delta R.T. -0.003 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

Tgt Ion:228 Resp: 1664146  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.6 36.8  
229 21.8 15.8 23.6

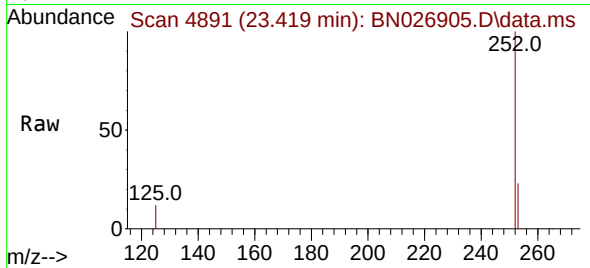






#24  
Benzo(b)fluoranthene  
Concen: 10.386 ng/ul m  
RT: 23.419 min Scan# 4891  
Delta R.T. -0.003 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

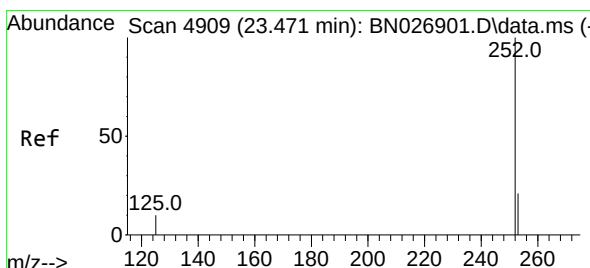
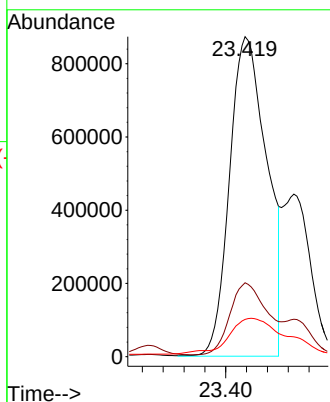
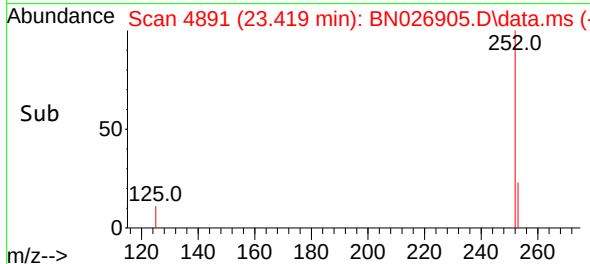
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:252 Resp: 216832  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 46.8  
125 11.7 0.0 25.2

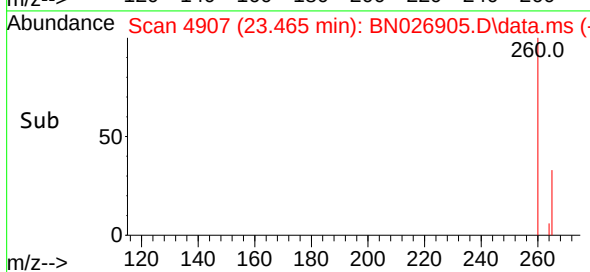
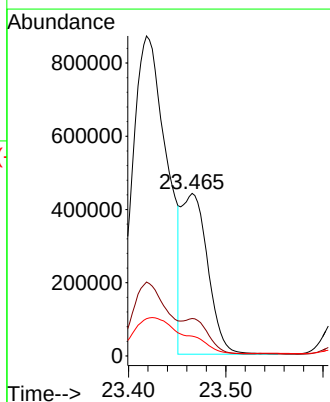
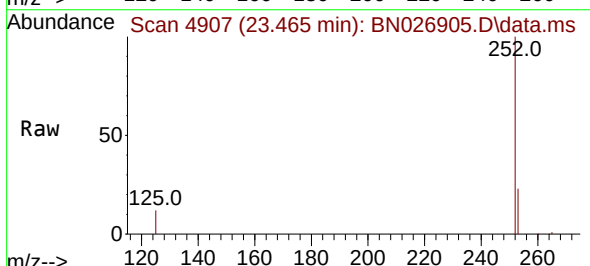
Manual Integrations  
APPROVED

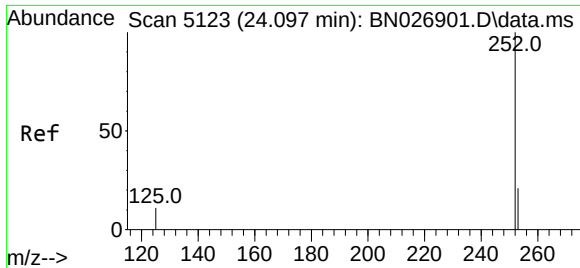
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#25  
Benzo(k)fluoranthene  
Concen: 4.040 ng/ul m  
RT: 23.465 min Scan# 4907  
Delta R.T. -0.009 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

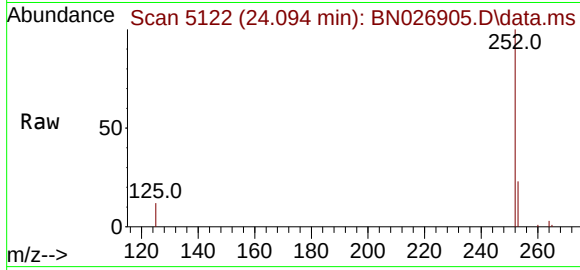
Tgt Ion:252 Resp: 831869  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.2 27.4  
125 12.2 9.9 14.9





#26  
Benzo(a)pyrene  
Concen: 6.927 ng/ul  
RT: 24.094 min Scan# 5123  
Delta R.T. -0.006 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

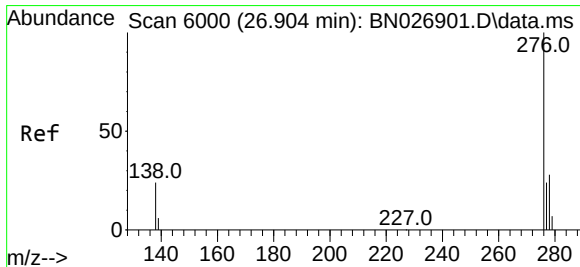
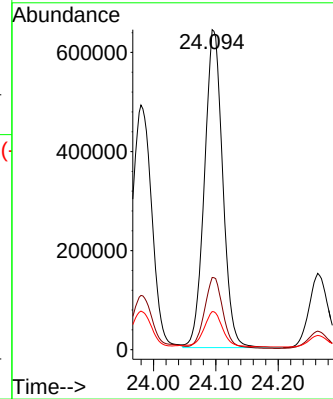
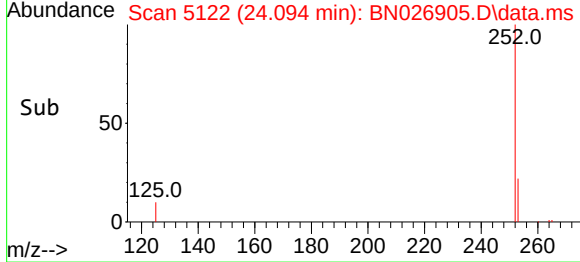
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



Tgt Ion:252 Resp: 1304935  
Ion Ratio Lower Upper  
252 100  
253 22.5 19.0 28.6  
125 11.9 11.4 17.0

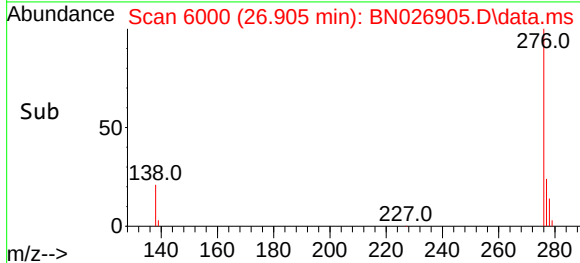
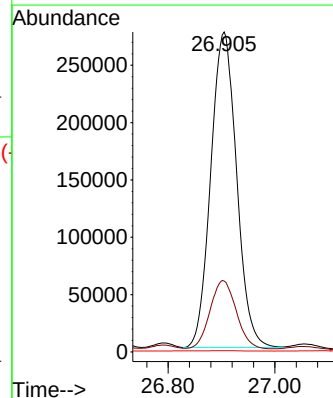
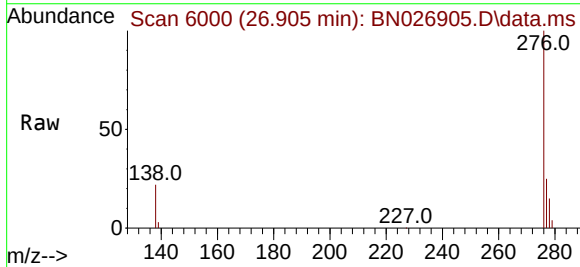
Manual Integrations  
APPROVED

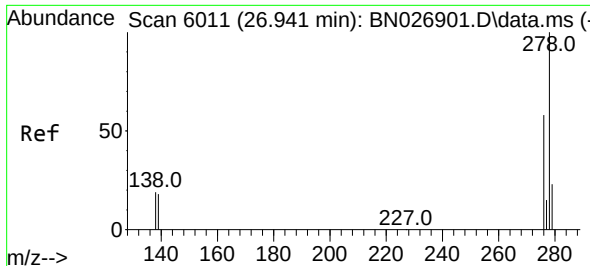
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 3.749 ng/ul  
RT: 26.905 min Scan# 6000  
Delta R.T. -0.003 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

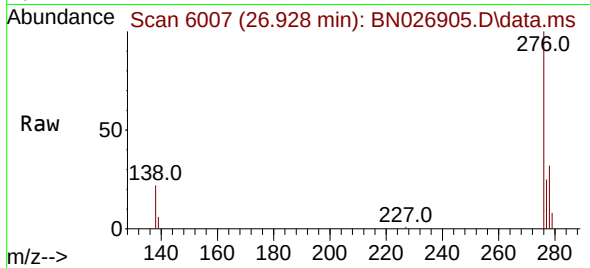
Tgt Ion:276 Resp: 923851  
Ion Ratio Lower Upper  
276 100  
138 22.0 21.6 32.4  
227 0.2 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 1.046 ng/ul  
RT: 26.928 min Scan# 6011  
Delta R.T. -0.010 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33

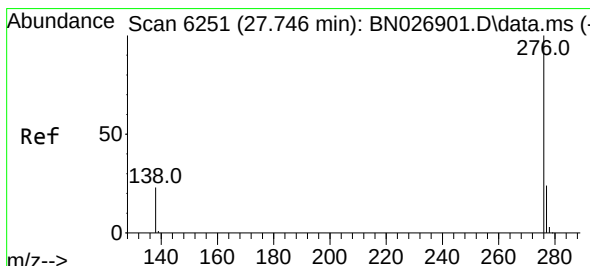
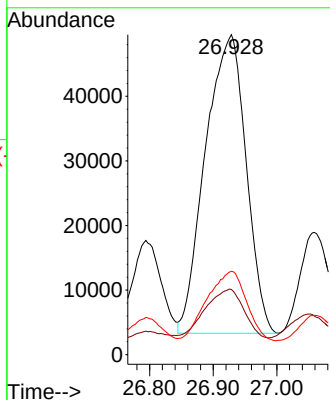
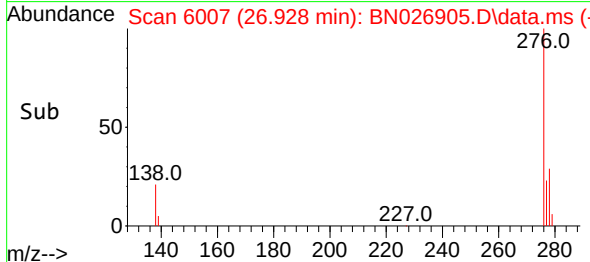
Instrument :  
BNA\_N  
ClientSampleId :  
A48H1



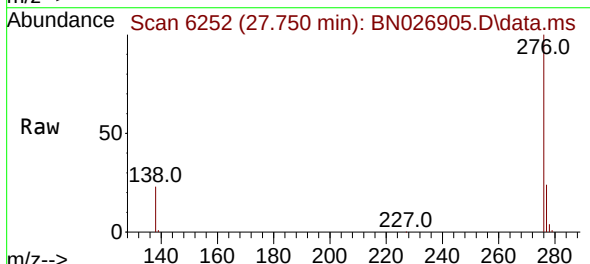
Tgt Ion: 278 Resp: 20544  
Ion Ratio Lower Upper  
278 100  
139 20.4 15.7 23.5  
279 26.1 20.2 30.4

Manual Integrations  
APPROVED

Reviewed By : Yogesh Patel 08/16/2023  
Supervised By : Sohil Jodhani 08/16/2023



#29  
Benzo(g,h,i)perylene  
Concen: 4.106 ng/ul  
RT: 27.750 min Scan# 6252  
Delta R.T. 0.004 min  
Lab File: BN026905.D  
Acq: 15 Aug 2023 17:33



Tgt Ion: 276 Resp: 842458  
Ion Ratio Lower Upper  
276 100  
138 23.3 19.3 28.9  
277 24.2 19.8 29.8

