

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102022\  
 Data File : BN022228.D  
 Acq On : 20 Oct 2022 11:07  
 Operator : CG/JU  
 Sample : N5023-12  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BD1

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 10/21/2022  
 Supervised By :mohammad ahmed 10/21/2022

Quant Time: Oct 21 01:49:34 2022  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN102022.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 19 23:32:34 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.948  | 152  | 4134     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.778 | 136  | 14178    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.623 | 164  | 8782     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.378 | 188  | 19235    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.579 | 240  | 14802    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.040 | 264  | 11586    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.253  | 96   | 32187    | 5.991 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.372 | 152  | 8203     | 0.382 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.412 | 212  | 19695    | 0.396 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.827 | 128  | 11346    | 0.271 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.444 | 142  | 6788     | 0.257 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.664 | 142  | 5434     | 0.200 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.345 | 152  | 1821     | 0.046 | ng/ul# | 82       |
| 11) Acenaphthene            | 14.688 | 153  | 1301     | 0.039 | ng/ul  | 97       |
| 12) Fluorene                | 15.673 | 166  | 1750     | 0.045 | ng/ul# | 96       |
| 15) Phenanthrene            | 17.421 | 178  | 49897    | 0.773 | ng/ul  | 99       |
| 16) Anthracene              | 17.514 | 178  | 7555     | 0.139 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.444 | 202  | 132801   | 1.959 | ng/ul  | 97       |
| 20) Pyrene                  | 19.807 | 202  | 101017m  | 1.483 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.561 | 228  | 48744    | 0.879 | ng/ul  | 97       |
| 22) Chrysene                | 21.617 | 228  | 58370    | 0.993 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.286 | 252  | 68846m   | 1.183 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.330 | 252  | 24550m   | 0.434 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.932 | 252  | 41839    | 0.902 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.618 | 276  | 29029    | 0.503 | ng/ul# | 93       |
| 28) Dibenzo(a,h)anthracene  | 26.635 | 278  | 7877     | 0.171 | ng/ul# | 82       |
| 29) Benzo(g,h,i)perylene    | 27.420 | 276  | 24654    | 0.525 | ng/ul  | 99       |
| -----                       |        |      |          |       |        |          |

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

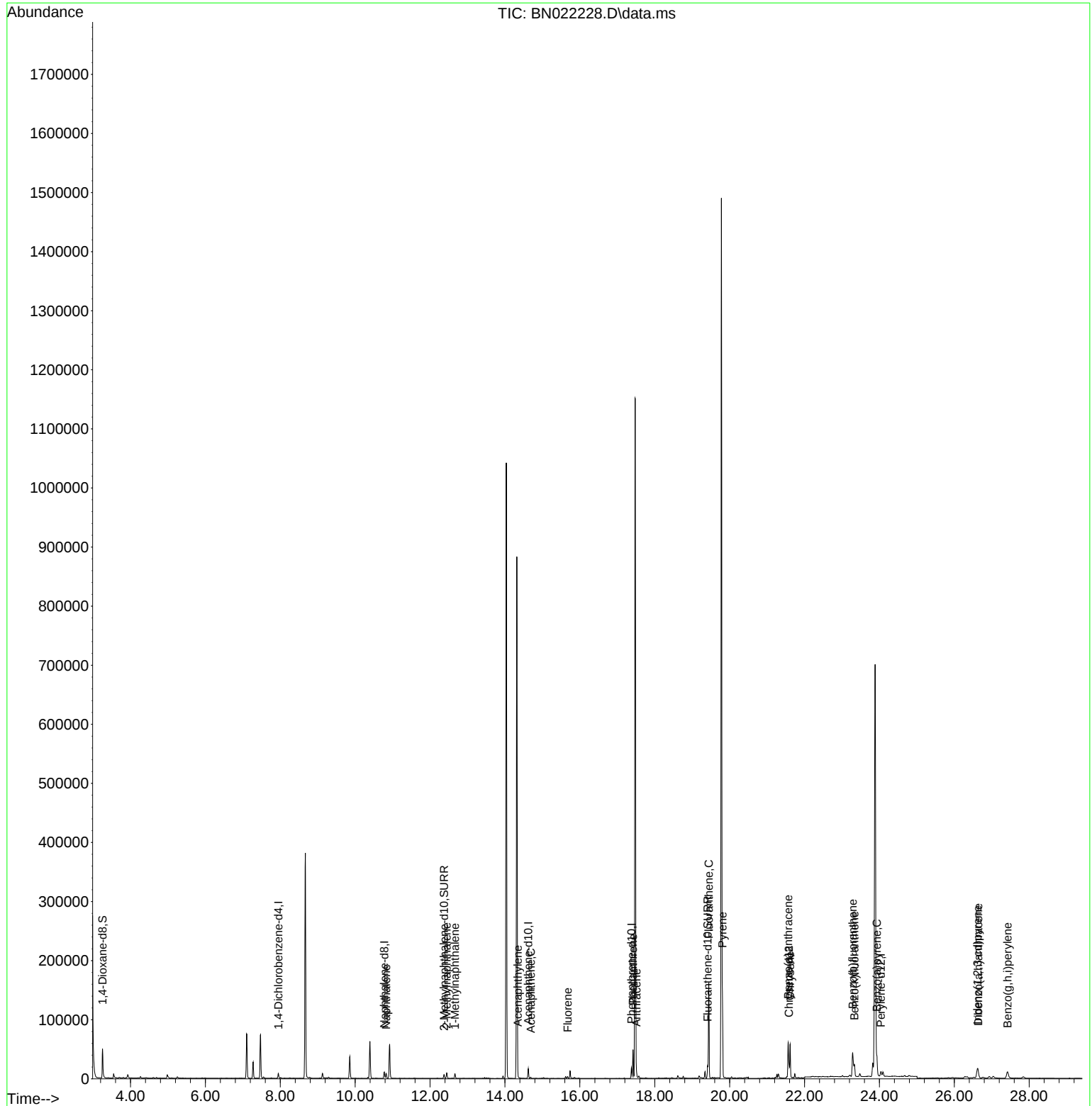
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN102022\  
Data File : BN022228.D  
Acq On : 20 Oct 2022 11:07  
Operator : CG/JU  
Sample : N5023-12  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

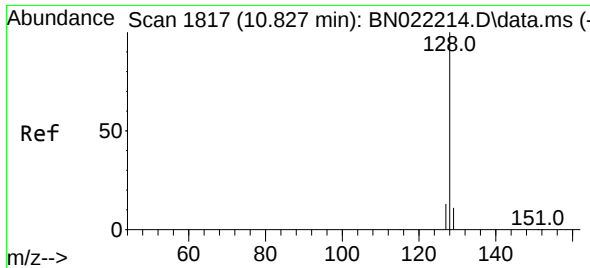
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1

Manual Integrations  
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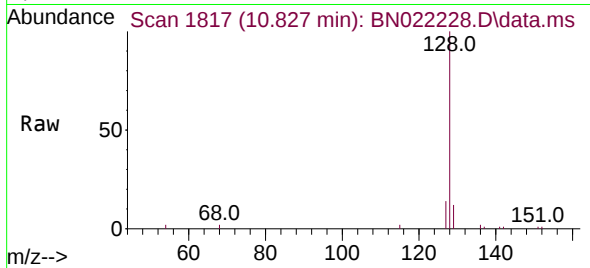
Quant Time: Oct 21 01:49:34 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN102022.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 19 23:32:34 2022  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.271 ng/ul  
RT: 10.827 min Scan# 1817  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

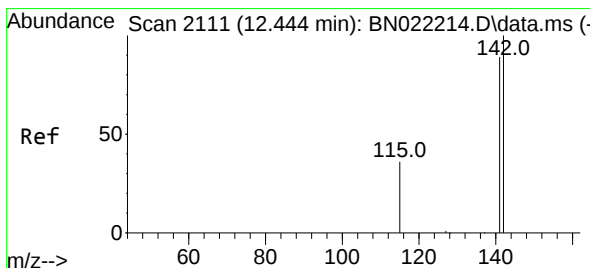
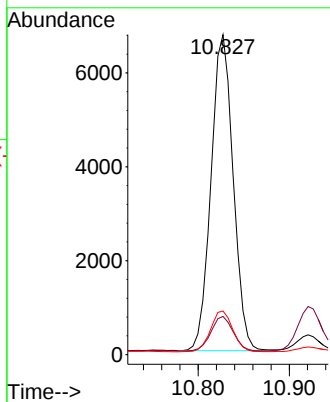
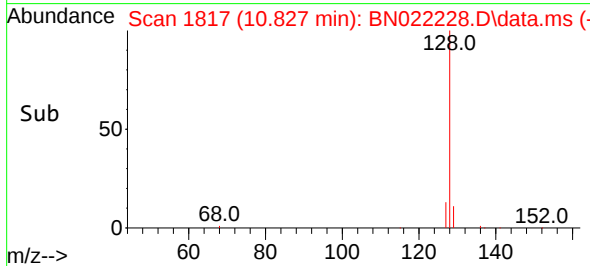
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:128 Resp: 11346  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.3 13.9  
127 13.6 10.7 16.1

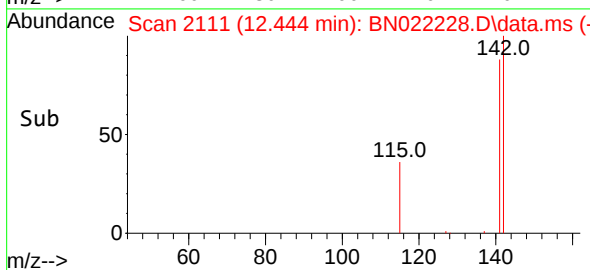
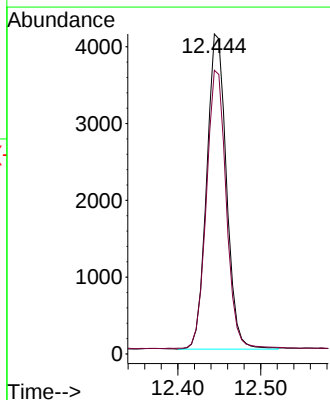
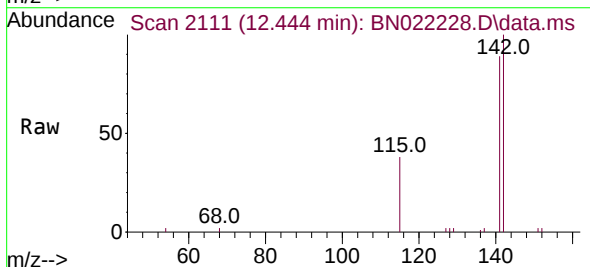
Manual Integrations  
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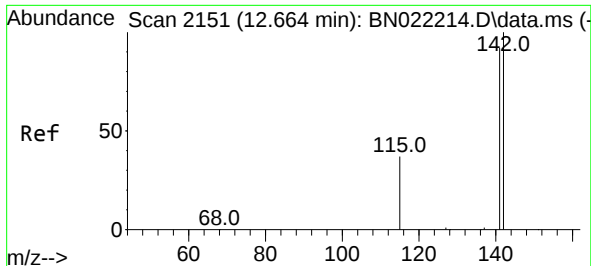
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#7  
2-Methylnaphthalene  
Concen: 0.257 ng/ul  
RT: 12.444 min Scan# 2111  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

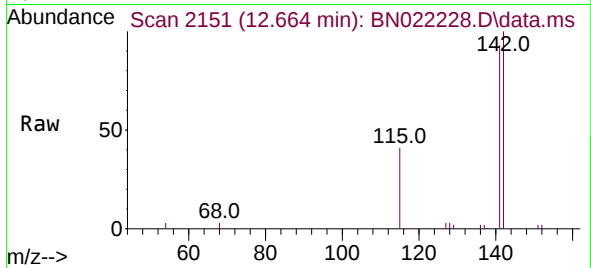
Tgt Ion:142 Resp: 6788  
Ion Ratio Lower Upper  
142 100  
141 88.5 71.1 106.7





#8  
1-Methylnaphthalene  
Concen: 0.200 ng/ul  
RT: 12.664 min Scan# 2151  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

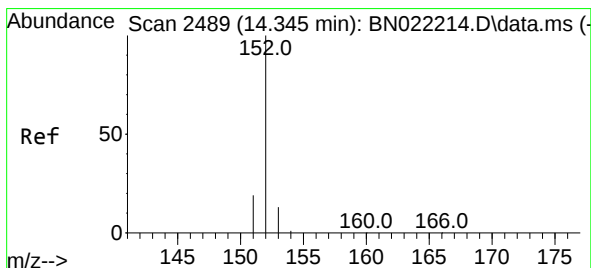
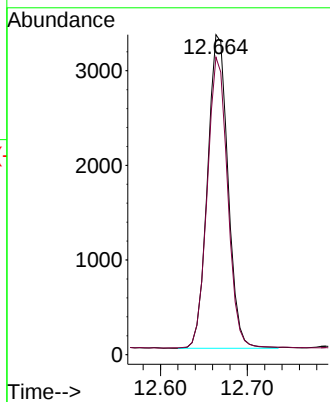
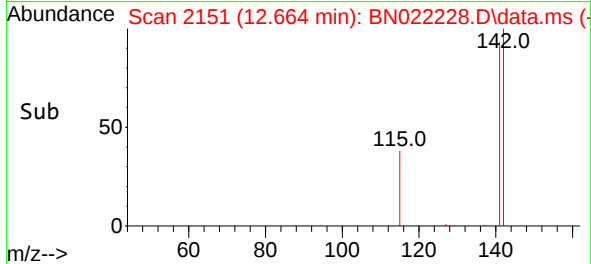
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:142 Resp: 5434  
Ion Ratio Lower Upper  
142 100  
141 92.3 73.3 109.9

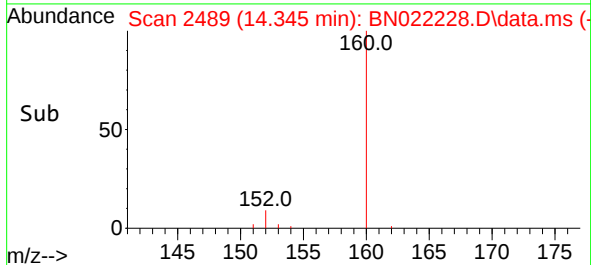
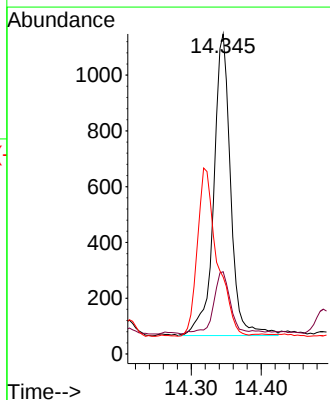
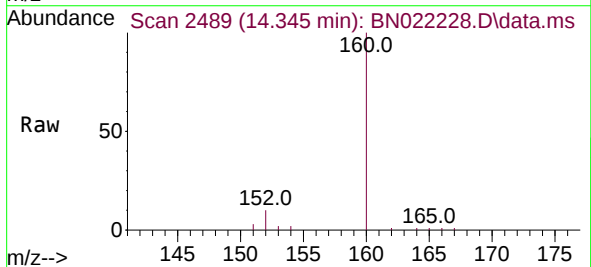
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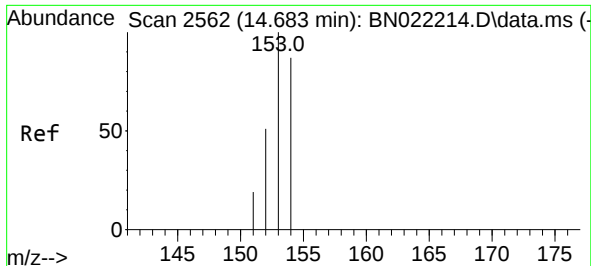
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#10  
Acenaphthylene  
Concen: 0.046 ng/ul  
RT: 14.345 min Scan# 2489  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

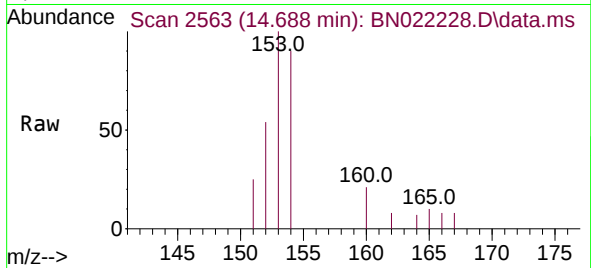
Tgt Ion:152 Resp: 1821  
Ion Ratio Lower Upper  
152 100  
151 25.7 15.9 23.9#  
153 24.0 10.8 16.2#





#11  
Acenaphthene  
Concen: 0.039 ng/ul  
RT: 14.688 min Scan# 2563  
Delta R.T. 0.001 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

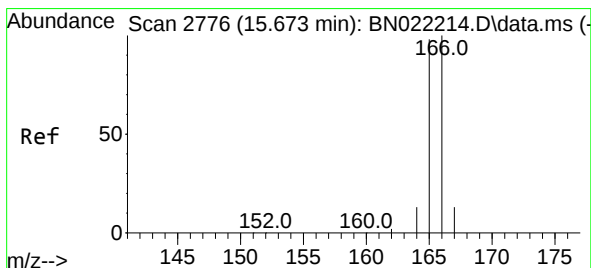
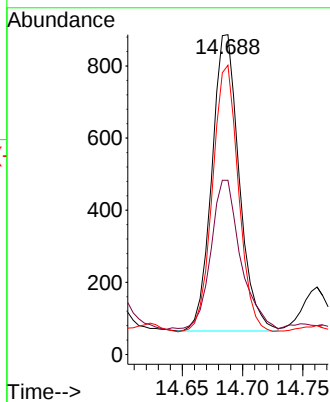
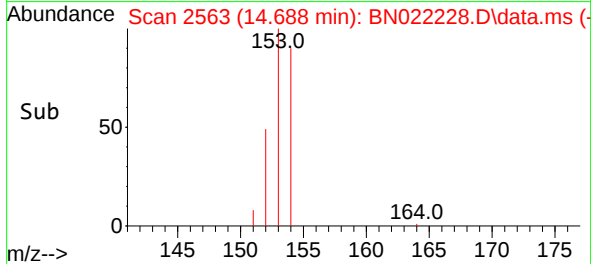
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:153 Resp: 1301  
Ion Ratio Lower Upper  
153 100  
152 54.5 40.6 61.0  
154 90.4 70.6 106.0

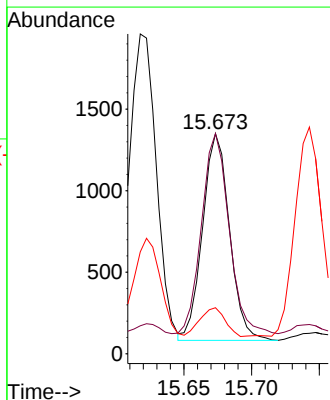
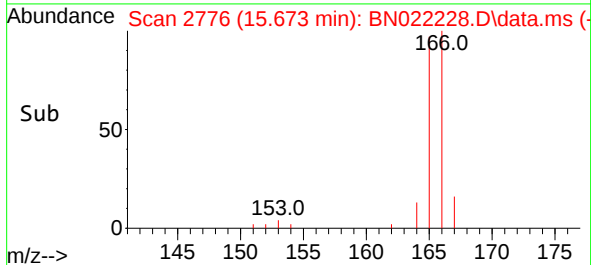
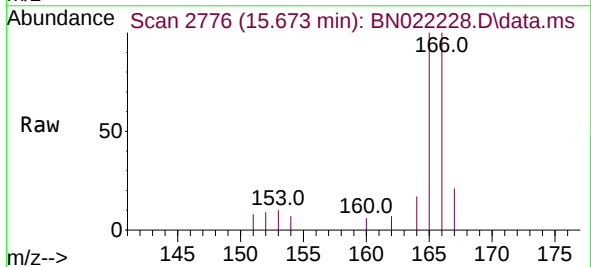
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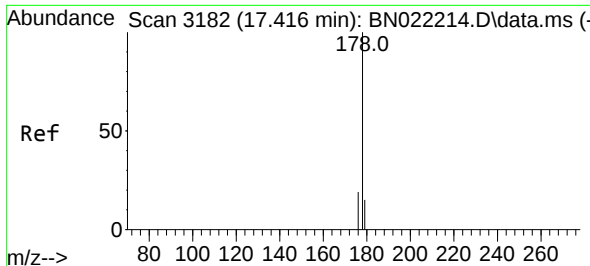
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#12  
Fluorene  
Concen: 0.045 ng/ul  
RT: 15.673 min Scan# 2776  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

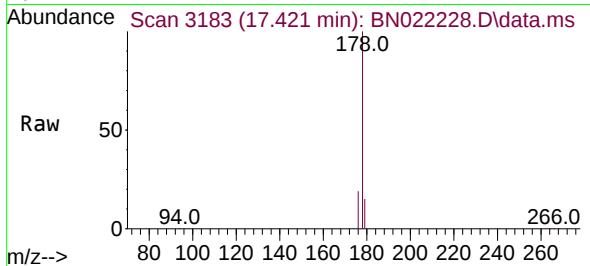
Tgt Ion:166 Resp: 1750  
Ion Ratio Lower Upper  
166 100  
165 100.1 78.2 117.2  
167 21.0 11.0 16.4#





#15  
Phenanthrene  
Concen: 0.773 ng/ul  
RT: 17.421 min Scan# 3183  
Delta R.T. -0.003 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

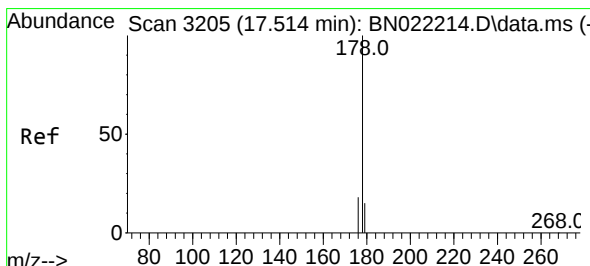
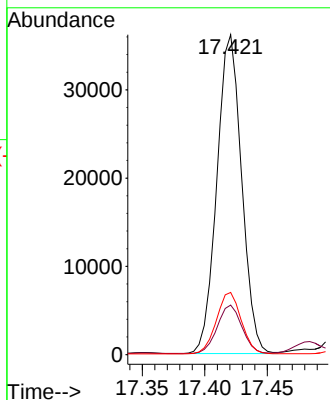
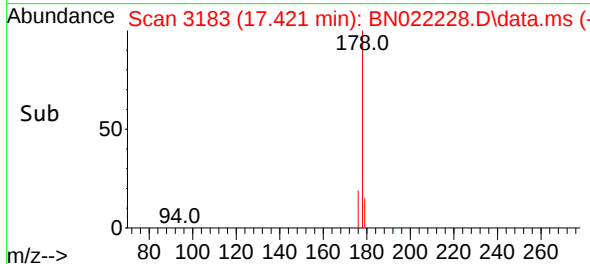
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



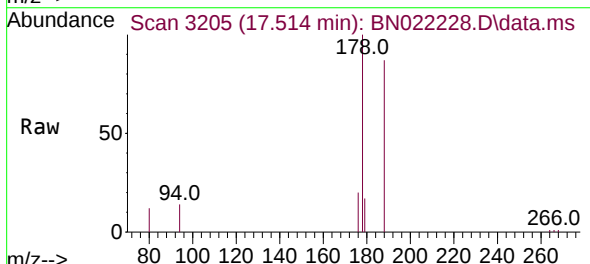
Tgt Ion:178 Resp: 49897  
Ion Ratio Lower Upper  
178 100  
179 15.5 12.7 19.1  
176 19.4 15.4 23.2

Manual Integrations  
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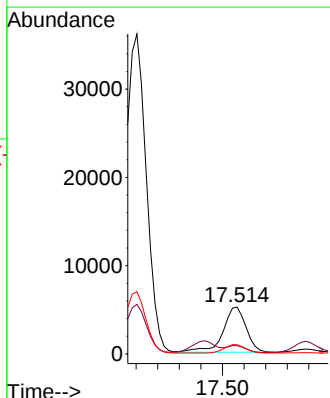
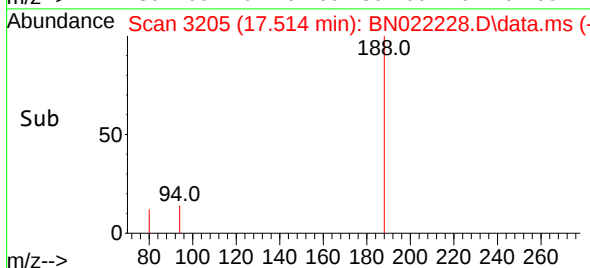
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022

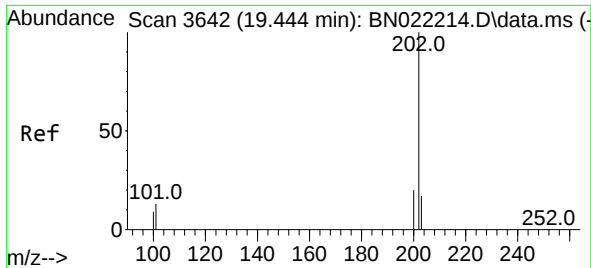


#16  
Anthracene  
Concen: 0.139 ng/ul  
RT: 17.514 min Scan# 3205  
Delta R.T. -0.003 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07



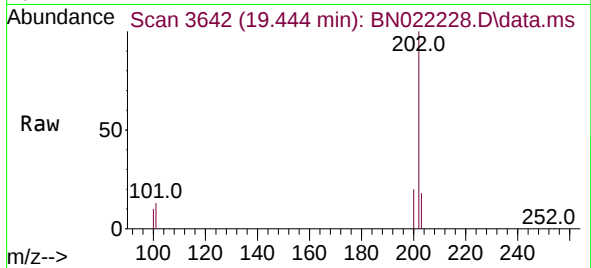
Tgt Ion:178 Resp: 7555  
Ion Ratio Lower Upper  
178 100  
179 17.5 12.6 18.8  
176 19.7 15.0 22.6





#19  
Fluoranthene  
Concen: 1.959 ng/ul  
RT: 19.444 min Scan# 3642  
Delta R.T. 0.001 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

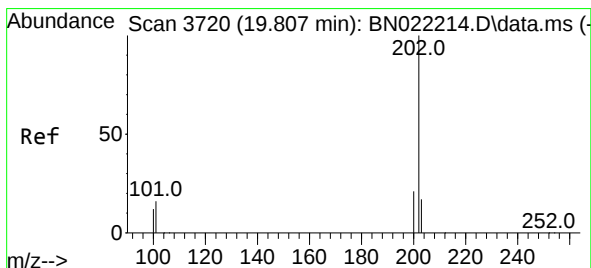
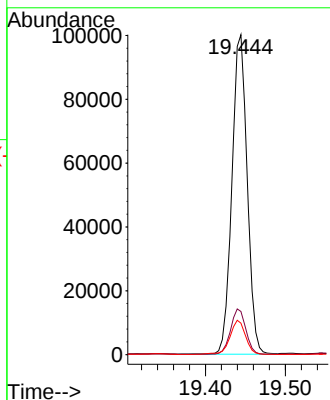
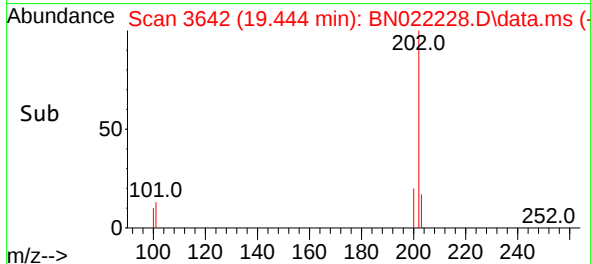
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:202 Resp: 132801  
Ion Ratio Lower Upper  
202 100  
101 13.5 11.8 17.6  
100 9.8 8.7 13.1

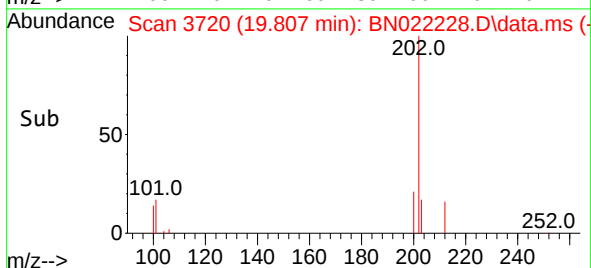
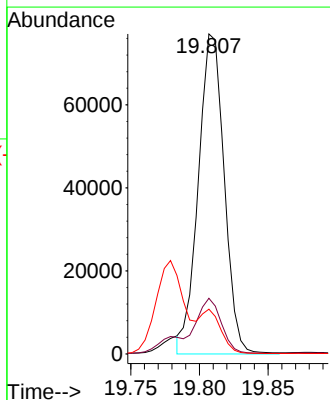
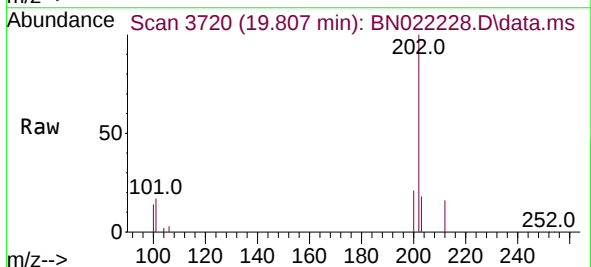
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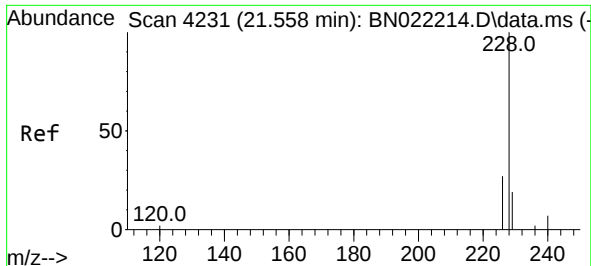
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#20  
Pyrene  
Concen: 1.483 ng/ul m  
RT: 19.807 min Scan# 3720  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

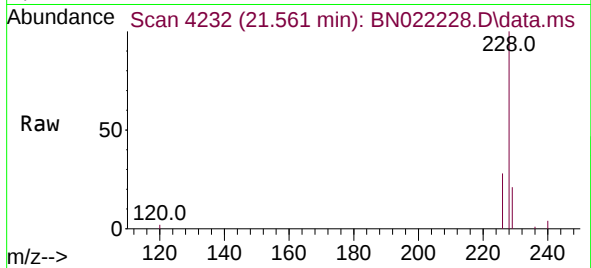
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Ion Ratio Lower Upper  
202 100  
101 17.4 13.1 19.7  
100 14.0 10.6 16.0





#21  
Benzo(a)anthracene  
Concen: 0.879 ng/ul  
RT: 21.561 min Scan# 4231  
Delta R.T. -0.006 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

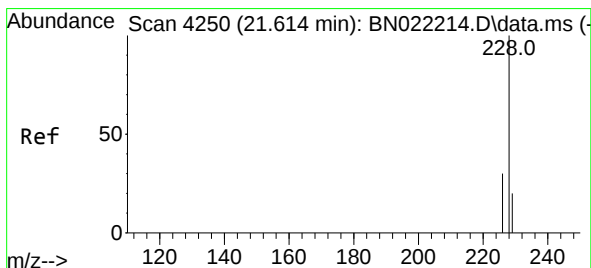
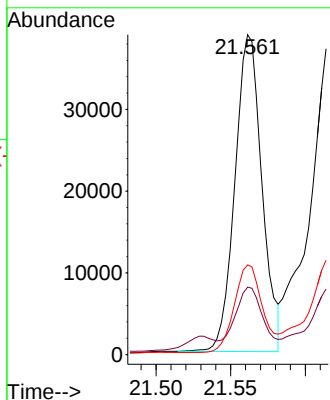
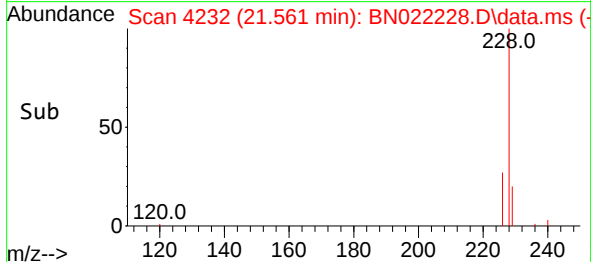
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



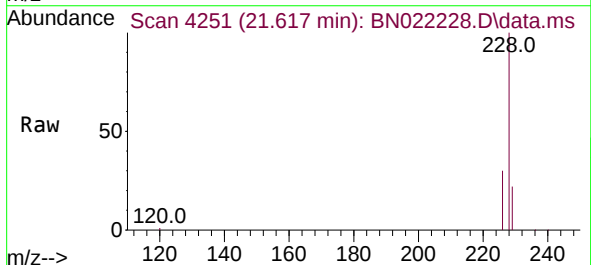
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Ion Ratio Lower Upper  
228 100  
229 21.1 15.7 23.5  
226 28.0 21.5 32.3

Manual Integrations  
APPROVED

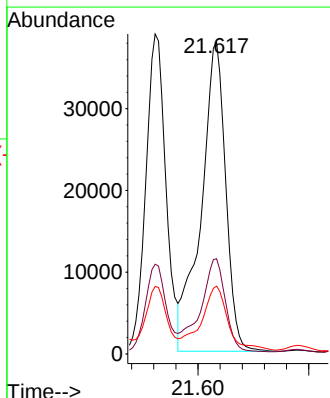
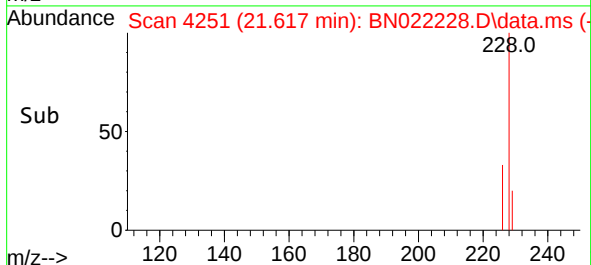
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022

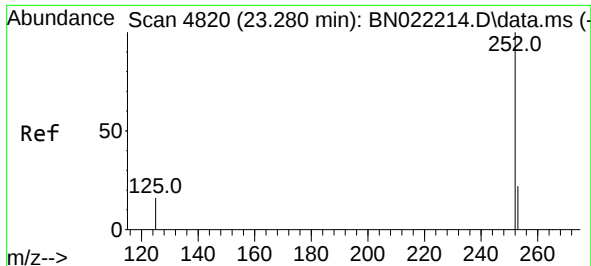


#22  
Chrysene  
Concen: 0.993 ng/ul  
RT: 21.617 min Scan# 4251  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07



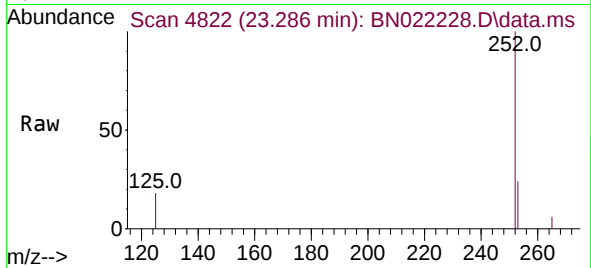
Tgt Ion:228 Resp: 58370  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.9 35.9  
229 21.7 15.9 23.9





#24  
Benzo(b)fluoranthene  
Concen: 1.183 ng/ul m  
RT: 23.286 min Scan# 4820  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

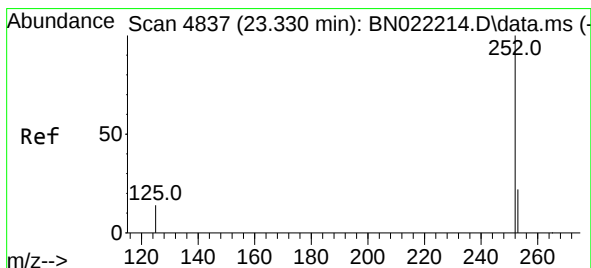
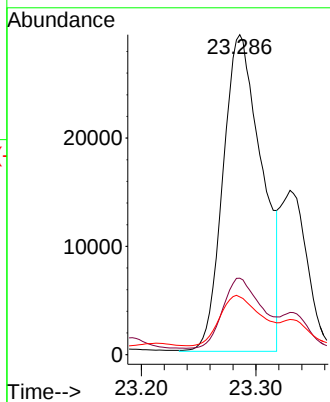
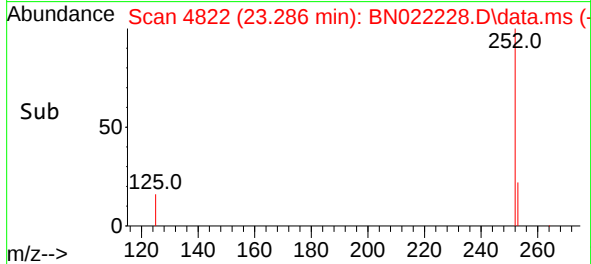
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:252 Resp: 68846  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 49.0  
125 18.0 0.0 35.2

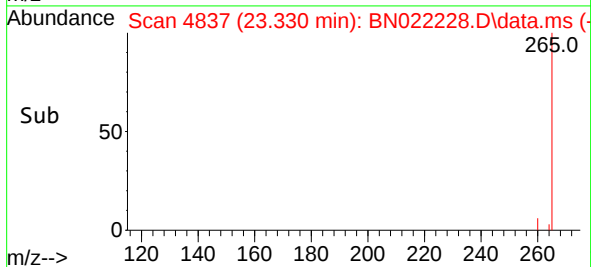
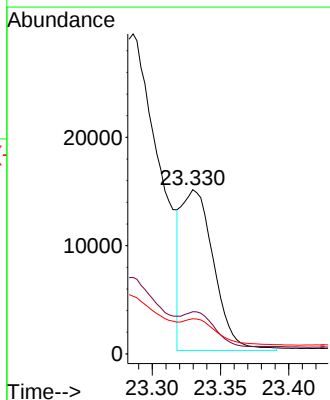
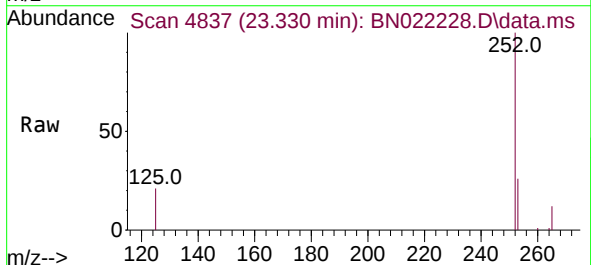
Manual Integrations  
APPROVED

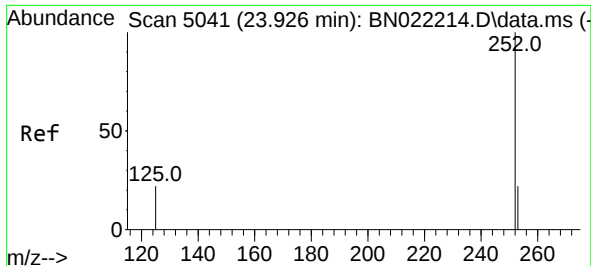
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#25  
Benzo(k)fluoranthene  
Concen: 0.434 ng/ul m  
RT: 23.330 min Scan# 4837  
Delta R.T. -0.009 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

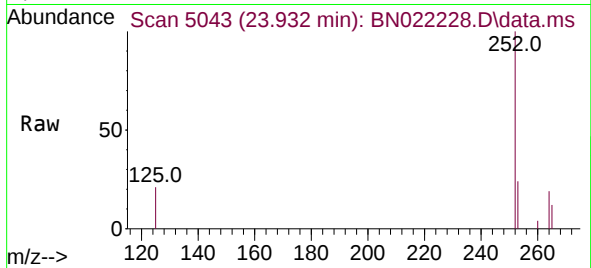
Tgt Ion:252 Resp: 24550  
Ion Ratio Lower Upper  
252 100  
253 25.7 19.7 29.5  
125 21.4 14.0 21.0#





#26  
Benzo(a)pyrene  
Concen: 0.902 ng/ul  
RT: 23.932 min Scan# 5043  
Delta R.T. -0.004 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

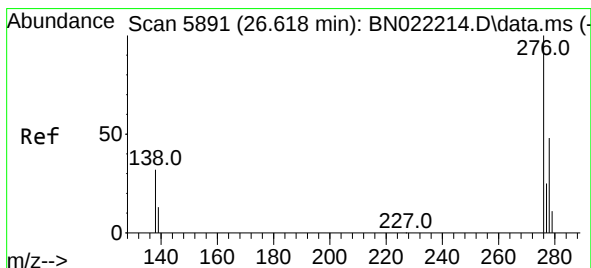
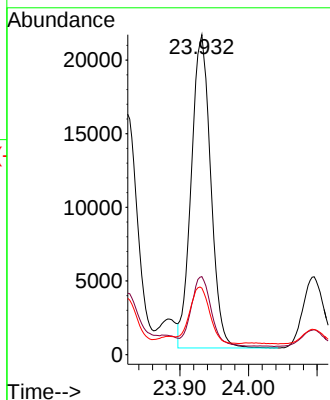
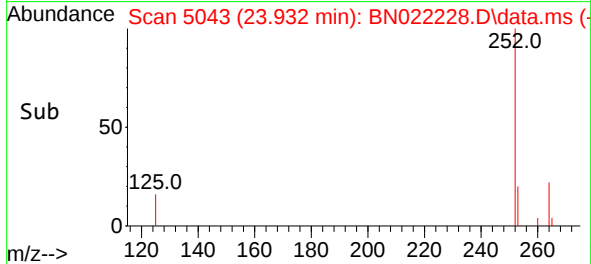
Instrument :  
BNA\_N  
ClientSampleId :  
C0BD1



Tgt Ion:252 Resp: 41839  
Ion Ratio Lower Upper  
252 100  
253 24.4 21.0 31.6  
125 20.8 17.9 26.9

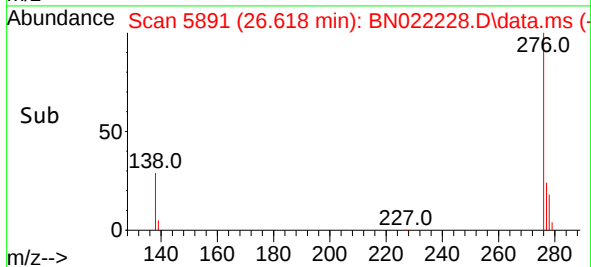
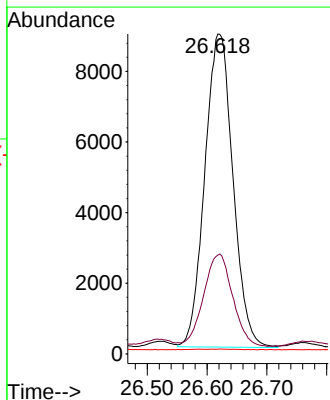
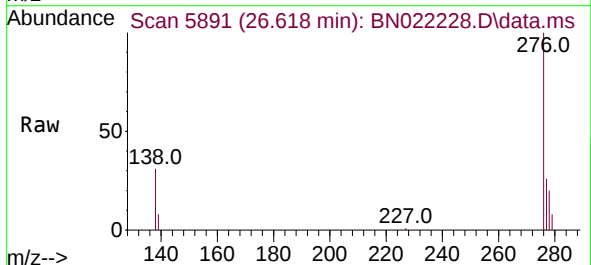
Manual Integrations  
APPROVED

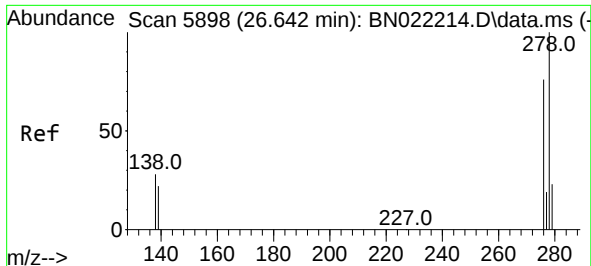
Reviewed By :Jagrut Upadhyay 10/21/2022  
Supervised By :mohammad ahmed 10/21/2022



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.503 ng/ul  
RT: 26.618 min Scan# 5891  
Delta R.T. -0.017 min  
Lab File: BN022228.D  
Acq: 20 Oct 2022 11:07

Tgt Ion:276 Resp: 29029  
Ion Ratio Lower Upper  
276 100  
138 30.4 27.7 41.5  
227 0.1 0.2 0.2





#28

Dibenzo(a,h)anthracene

Concen: 0.171 ng/ul

RT: 26.635 min Scan# 5898

Delta R.T. -0.021 min

Lab File: BN022228.D

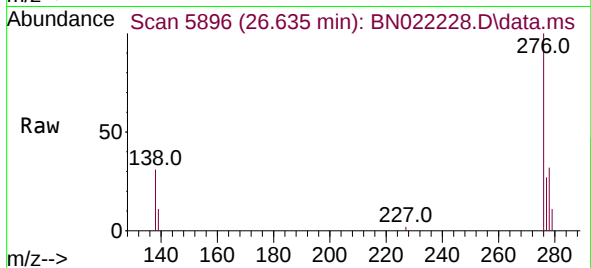
Acq: 20 Oct 2022 11:07

Instrument :

BNA\_N

ClientSampleId :

C0BD1



Tgt Ion:278 Resp: 787

Ion Ratio Lower Upper

278 100

139 33.5 19.6 29.4

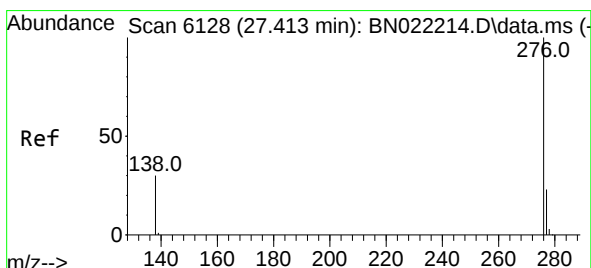
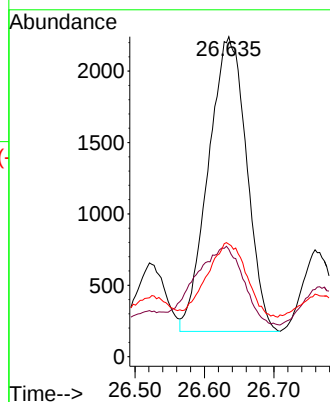
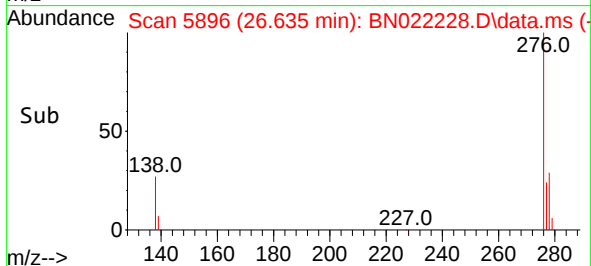
279 35.1 20.6 30.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/21/2022

Supervised By :mohammad ahmed 10/21/2022



#29

Benzo(g,h,i)perylene

Concen: 0.525 ng/ul

RT: 27.420 min Scan# 6130

Delta R.T. -0.011 min

Lab File: BN022228.D

Acq: 20 Oct 2022 11:07

Tgt Ion:276 Resp: 24654

Ion Ratio Lower Upper

276 100

138 31.3 25.2 37.8

277 25.3 19.9 29.9

