

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070124\  
 Data File : BN032368.D  
 Acq On : 01 Jul 2024 18:55  
 Operator : MA/JU  
 Sample : P2934-05  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4B72

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/02/2024  
 Supervised By :mohammad ahmed 07/04/2024

Quant Time: Jul 01 23:45:12 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 27 13:23:38 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.607  | 152  | 7992     | 0.400 | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.382 | 136  | 22769    | 0.400 | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.253 | 164  | 11621    | 0.400 | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 17.008 | 188  | 20561m   | 0.400 | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.212 | 240  | 16440m   | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.427 | 264  | 18583m   | 0.400 | ng/ul  | -0.03    |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.148  | 96   | 26430    | 2.975 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.982 | 152  | 6891     | 0.202 | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.045 | 212  | 11263    | 0.228 | ng/ul  | -0.01    |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 5) Naphthalene              | 10.431 | 128  | 37008    | 0.614 | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.059 | 142  | 10593    | 0.265 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.279 | 142  | 6531     | 0.158 | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.976 | 152  | 42937    | 0.888 | ng/ul  | 100      |
| 11) Acenaphthene            | 14.318 | 153  | 16471    | 0.439 | ng/ul  | 99       |
| 12) Fluorene                | 15.308 | 166  | 19203    | 0.430 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.050 | 178  | 299449m  | 5.312 | ng/ul  |          |
| 16) Anthracene              | 17.143 | 178  | 59665m   | 1.187 | ng/ul  |          |
| 19) Fluoranthene            | 19.078 | 202  | 540797   | 8.639 | ng/ul  | 99       |
| 20) Pyrene                  | 19.440 | 202  | 418293   | 6.394 | ng/ul  | 100      |
| 21) Benzo(a)anthracene      | 21.194 | 228  | 287045   | 4.838 | ng/ul  | 98       |
| 22) Chrysene                | 21.249 | 228  | 285446   | 4.383 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 22.763 | 252  | 428414m  | 5.306 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.801 | 252  | 152689m  | 1.946 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.330 | 252  | 188082   | 3.348 | ng/ul# | 90       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.663 | 276  | 175780   | 1.999 | ng/ul# | 97       |
| 28) Dibenzo(a,h)anthracene  | 25.666 | 278  | 54643    | 0.836 | ng/ul# | 89       |
| 29) Benzo(g,h,i)perylene    | 26.351 | 276  | 27396    | 0.391 | ng/ul# | 87       |
| -----                       |        |      |          |       |        |          |

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

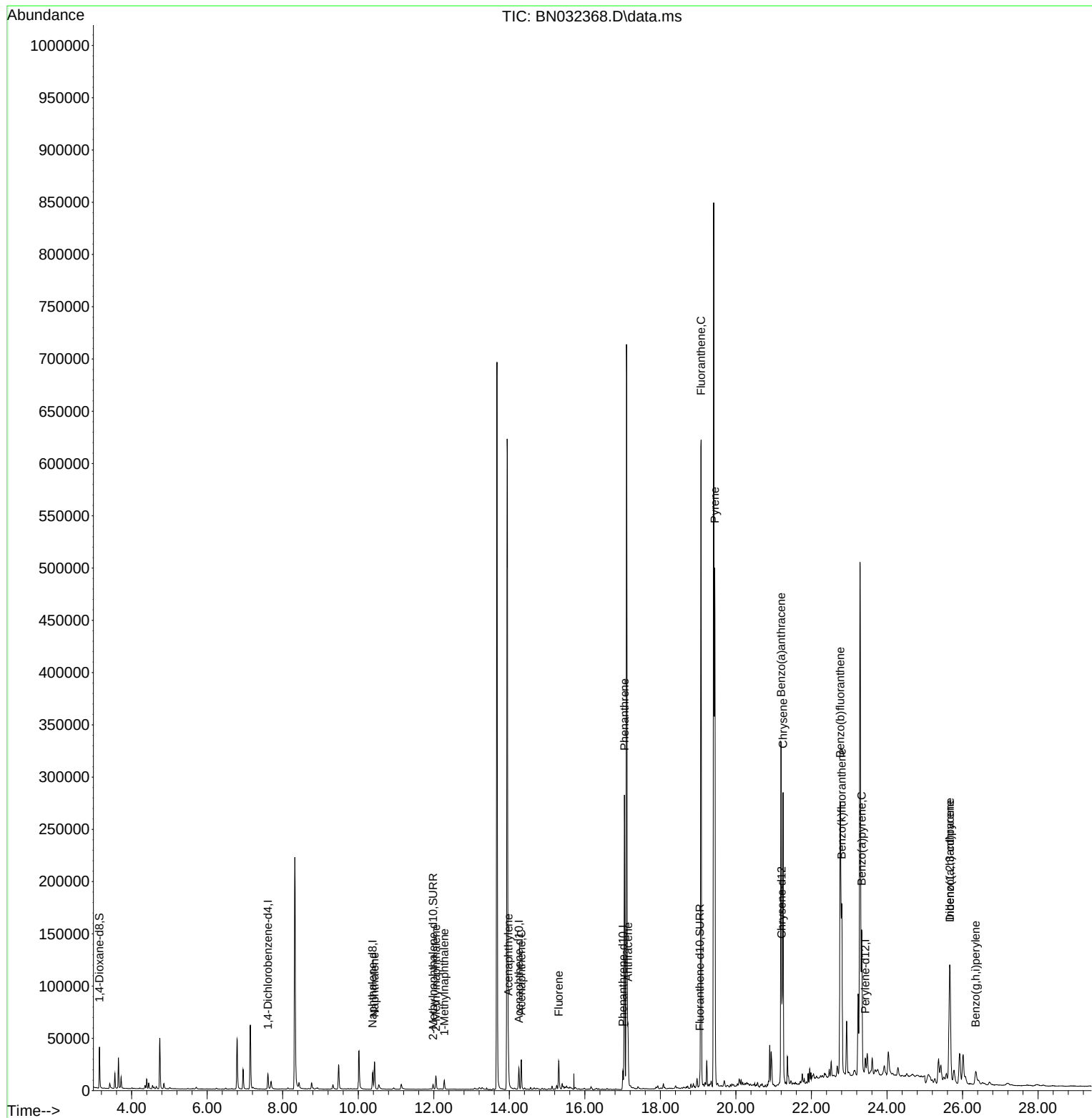
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN070124\  
Data File : BN032368.D  
Acq On : 01 Jul 2024 18:55  
Operator : MA/JU  
Sample : P2934-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

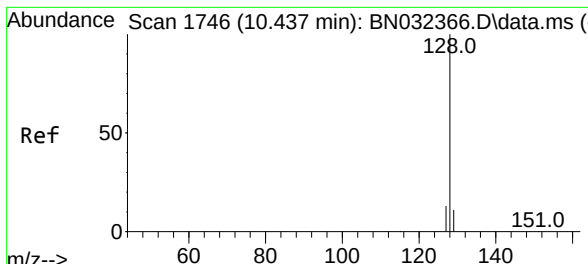
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72

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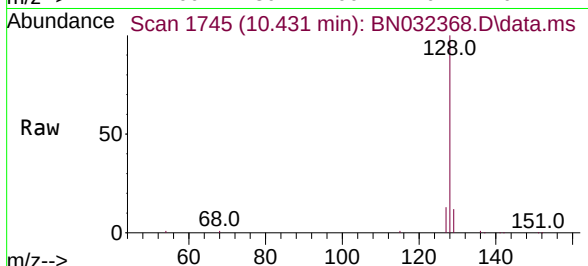
Quant Time: Jul 01 23:45:12 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN062724.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 27 13:23:38 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.614 ng/ul  
RT: 10.431 min Scan# 1745  
Delta R.T. -0.017 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

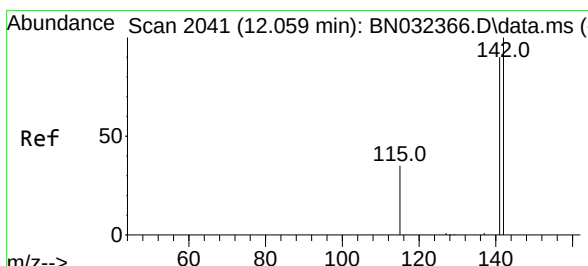
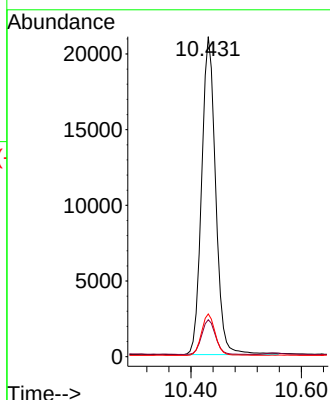
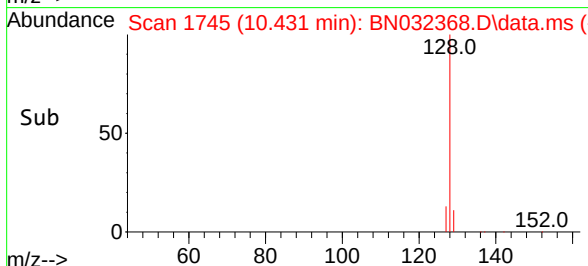
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



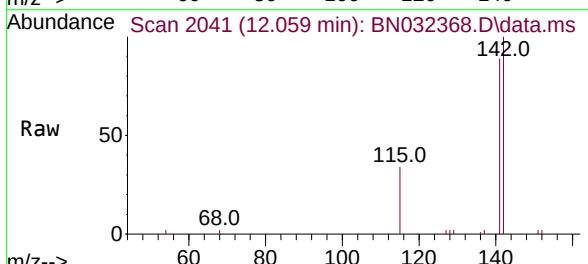
Tgt Ion:128 Resp: 37008  
Ion Ratio Lower Upper  
128 100  
129 11.6 9.2 13.8  
127 13.4 10.8 16.2

Manual Integrations  
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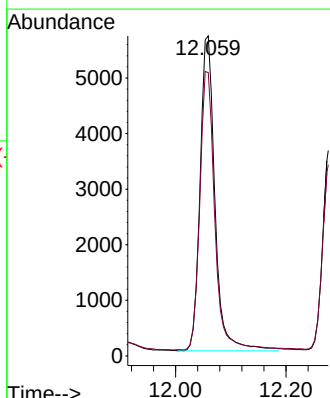
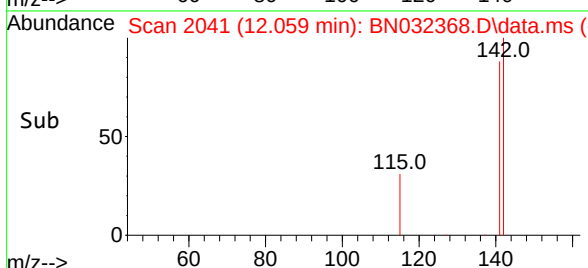
Reviewed By :Jagrut Upadhyay 07/02/2024  
Supervised By :mohammad ahmed 07/04/2024

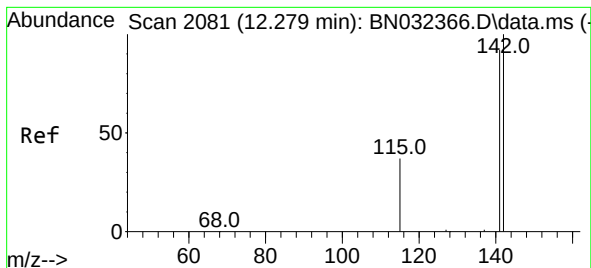


#7  
2-Methylnaphthalene  
Concen: 0.265 ng/ul  
RT: 12.059 min Scan# 2041  
Delta R.T. -0.017 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55



Tgt Ion:142 Resp: 10593  
Ion Ratio Lower Upper  
142 100  
141 88.5 72.2 108.2





#8

1-Methylnaphthalene

Concen: 0.158 ng/ul

RT: 12.279 min Scan# 2081

Delta R.T. -0.017 min

Lab File: BN032368.D

Acq: 01 Jul 2024 18:55

Instrument :

BNA\_N

ClientSampleId :

A4B72

Tgt Ion:142 Resp: 653

Ion Ratio Lower Upper

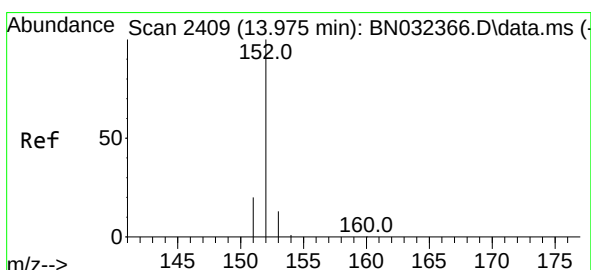
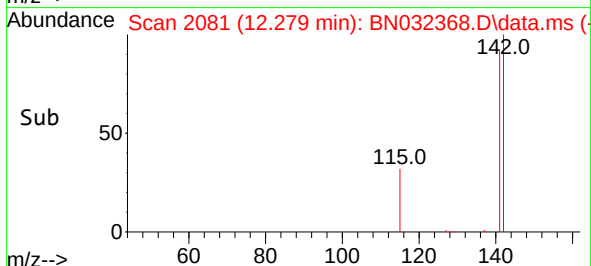
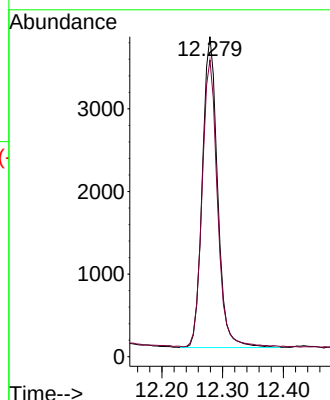
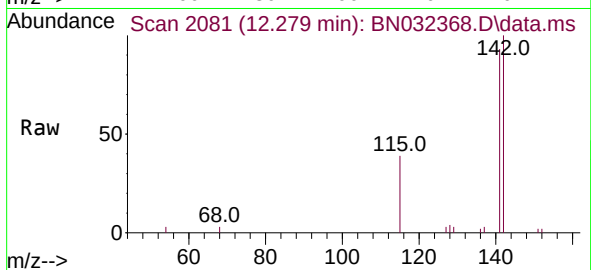
142 100

141 93.0 73.4 110.0

Manual Integrations

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#10

Acenaphthylene

Concen: 0.888 ng/ul

RT: 13.976 min Scan# 2409

Delta R.T. -0.014 min

Lab File: BN032368.D

Acq: 01 Jul 2024 18:55

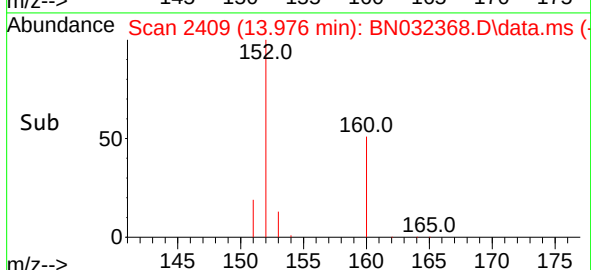
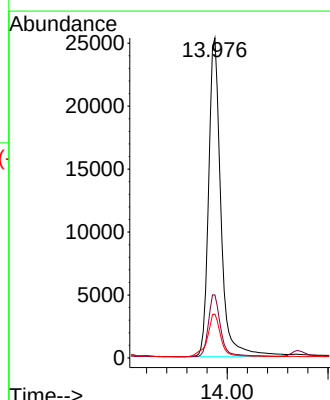
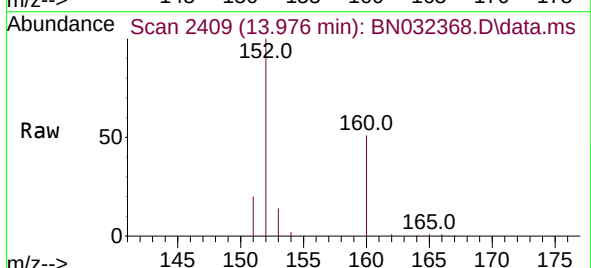
Tgt Ion:152 Resp: 42937

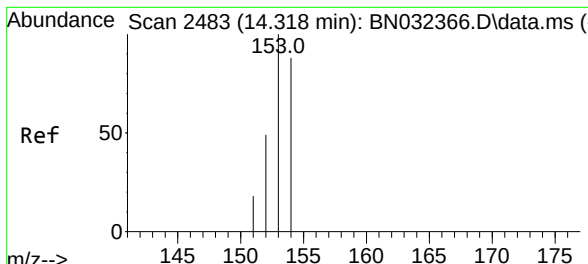
Ion Ratio Lower Upper

152 100

151 19.7 15.7 23.5

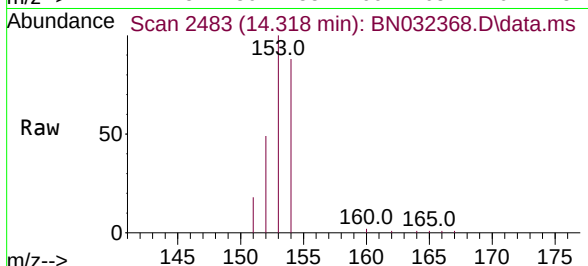
153 13.7 10.9 16.3





#11  
Acenaphthene  
Concen: 0.439 ng/ul  
RT: 14.318 min Scan# 2483  
Delta R.T. -0.014 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

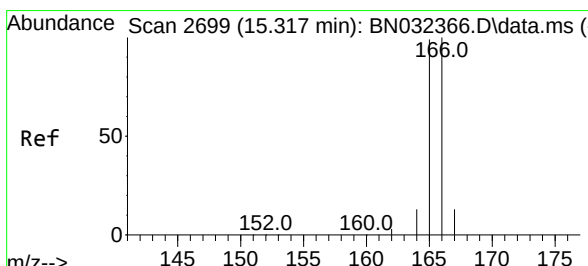
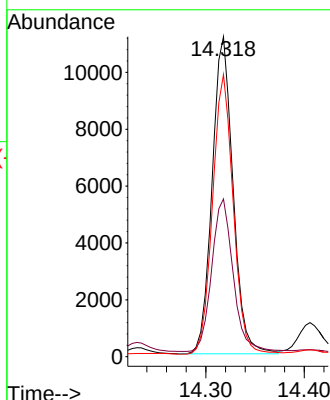
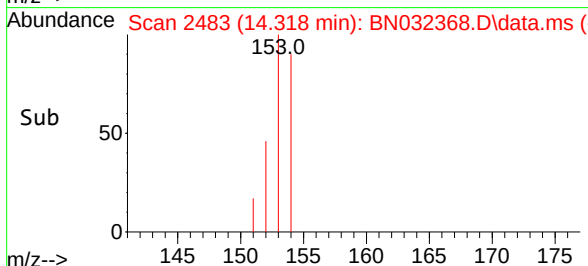
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



Tgt Ion:153 Resp: 1647  
Ion Ratio Lower Upper  
153 100  
152 49.3 39.5 59.3  
154 88.2 71.7 107.5

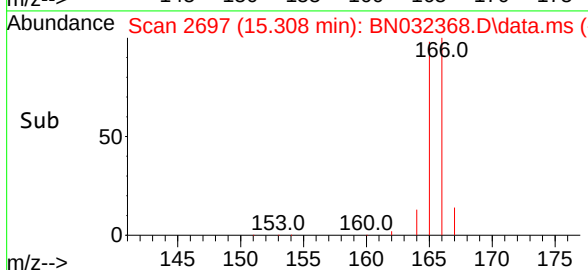
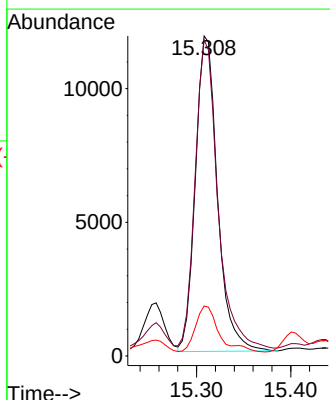
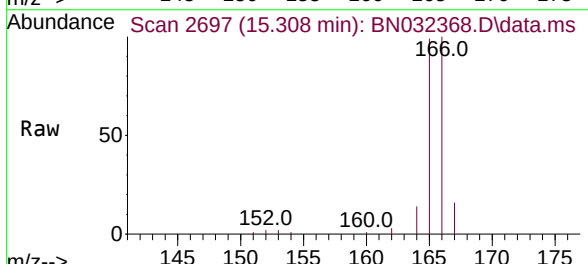
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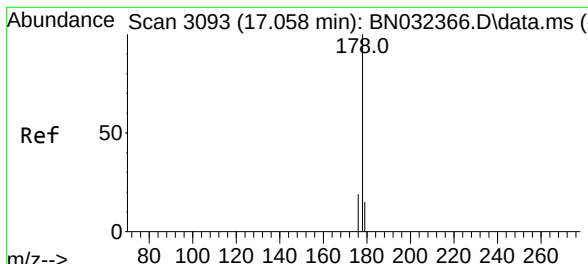
Reviewed By :Jagrut Upadhyay 07/02/2024  
Supervised By :mohammad ahmed 07/04/2024



#12  
Fluorene  
Concen: 0.430 ng/ul  
RT: 15.308 min Scan# 2697  
Delta R.T. -0.019 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

Tgt Ion:166 Resp: 19203  
Ion Ratio Lower Upper  
166 100  
165 98.8 79.0 118.6  
167 15.6 11.0 16.6





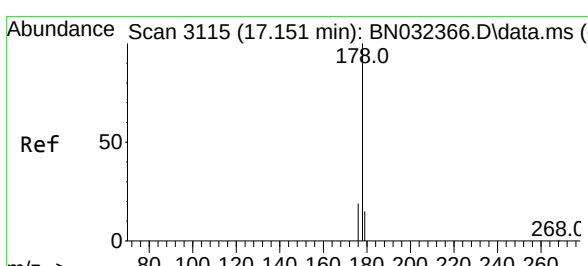
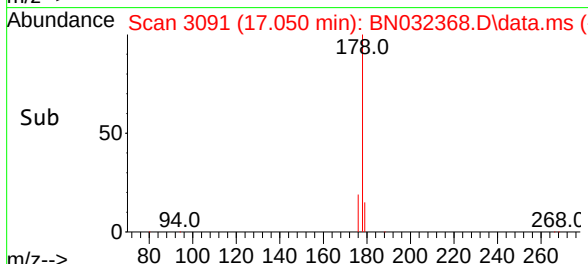
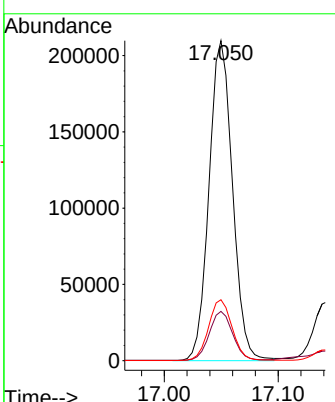
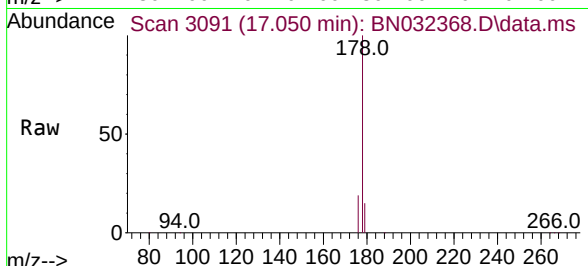
#15  
 Phenanthrene  
 Concen: 5.312 ng/ul m  
 RT: 17.050 min Scan# 3091  
 Delta R.T. -0.017 min  
 Lab File: BN032368.D  
 Acq: 01 Jul 2024 18:55

Instrument : BNA\_N  
 ClientSampleId : A4B72

Tgt Ion:178 Resp: 299449

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.4  | 12.6  | 18.8  |
| 176 | 19.1  | 15.6  | 23.4  |

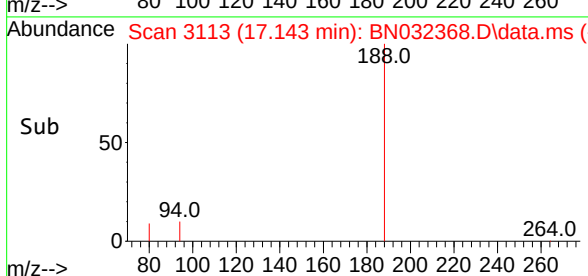
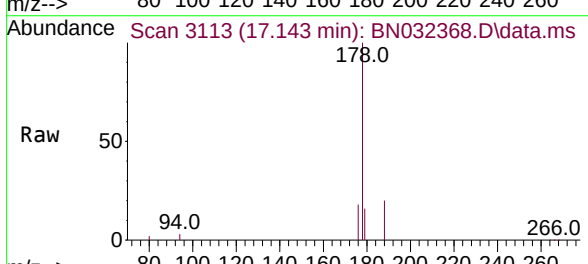
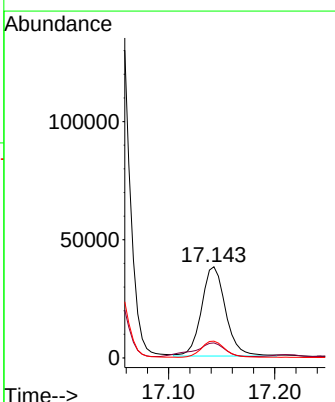
Manual Integrations  
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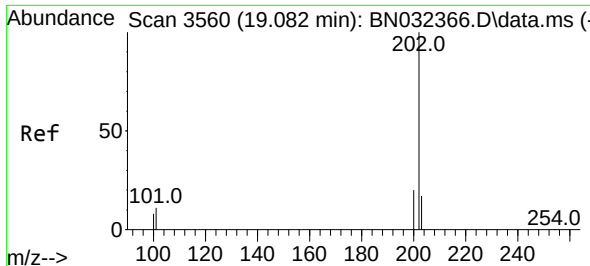


#16  
 Anthracene  
 Concen: 1.187 ng/ul m  
 RT: 17.143 min Scan# 3113  
 Delta R.T. -0.017 min  
 Lab File: BN032368.D  
 Acq: 01 Jul 2024 18:55

Tgt Ion:178 Resp: 59665

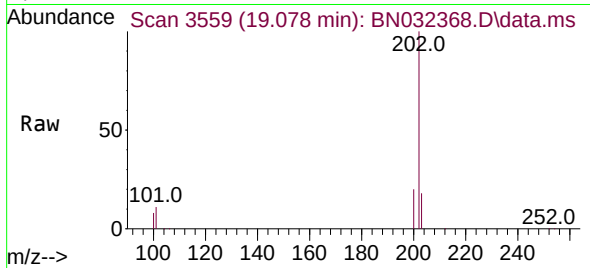
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 16.5  | 12.5  | 18.7  |
| 176 | 18.5  | 15.0  | 22.6  |





#19  
Fluoranthene  
Concen: 8.639 ng/u1  
RT: 19.078 min Scan# 3559  
Delta R.T. -0.014 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

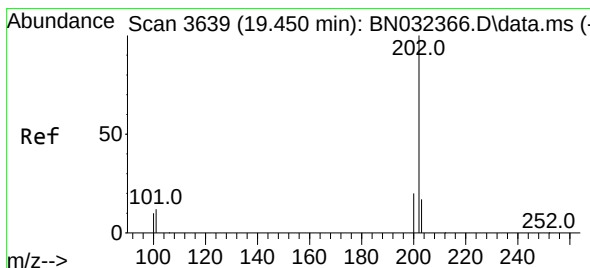
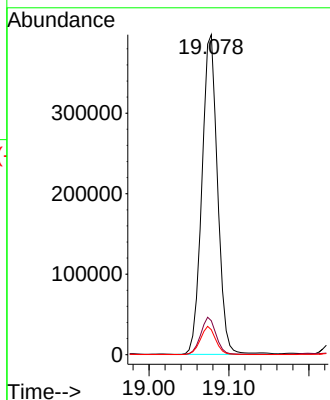
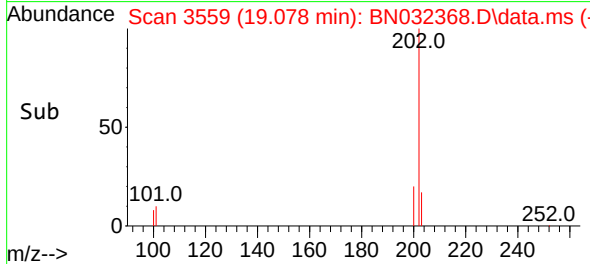
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



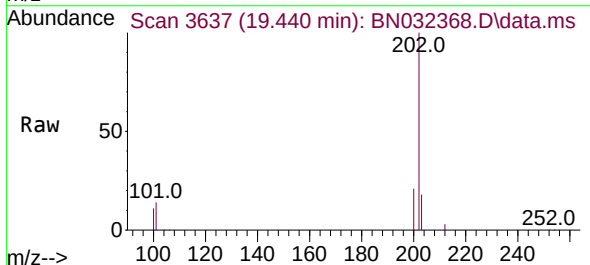
Tgt Ion:202 Resp: 54079  
Ion Ratio Lower Upper  
202 100  
101 10.6 8.8 13.2  
100 7.8 6.4 9.6

Manual Integrations  
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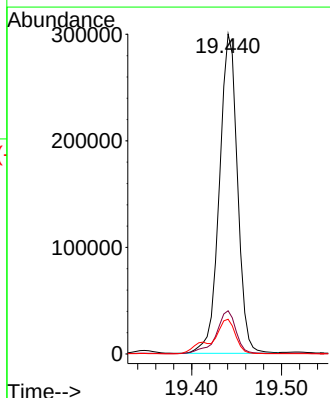
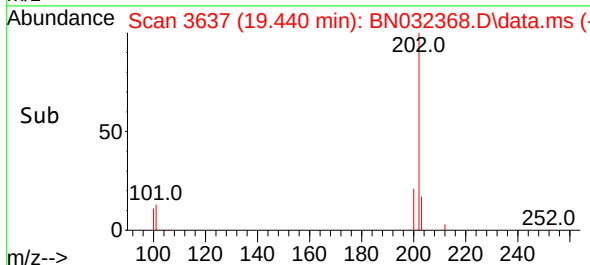
Reviewed By :Jagrut Upadhyay 07/02/2024  
Supervised By :mohammad ahmed 07/04/2024

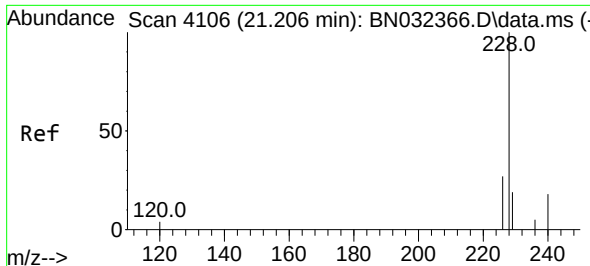


#20  
Pyrene  
Concen: 6.394 ng/u1  
RT: 19.440 min Scan# 3637  
Delta R.T. -0.014 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55



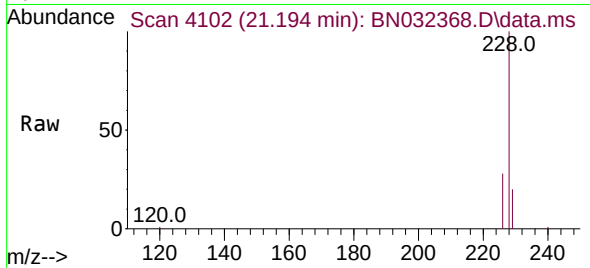
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Ion Ratio Lower Upper  
202 100  
101 13.5 11.0 16.4  
100 10.9 8.7 13.1





#21  
Benzo(a)anthracene  
Concen: 4.838 ng/u1  
RT: 21.194 min Scan# 4106  
Delta R.T. -0.020 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

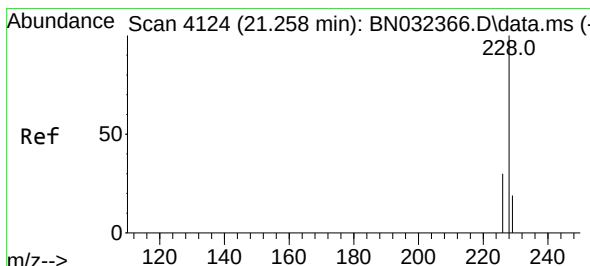
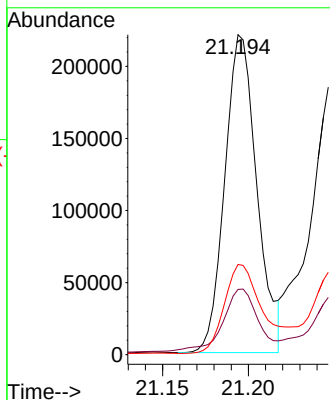
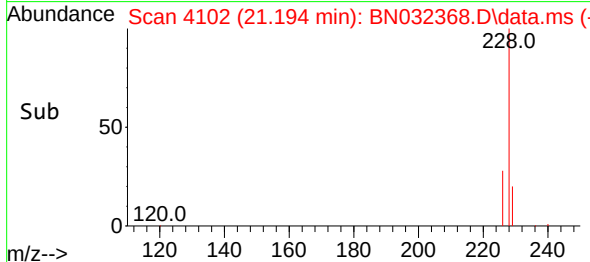
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



Tgt Ion:228 Resp: 287045  
Ion Ratio Lower Upper  
228 100  
229 20.4 15.7 23.5  
226 28.2 21.8 32.8

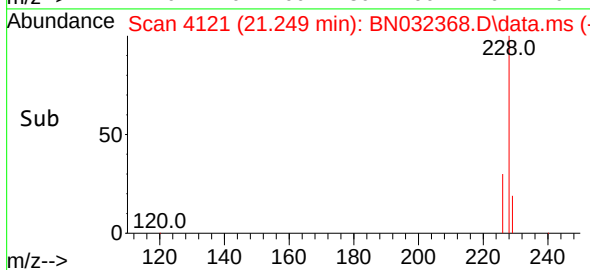
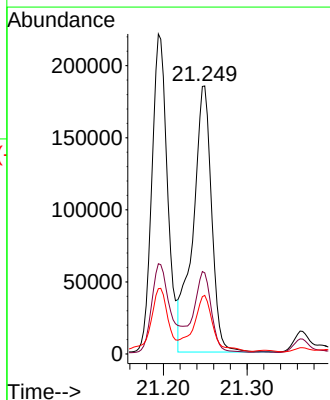
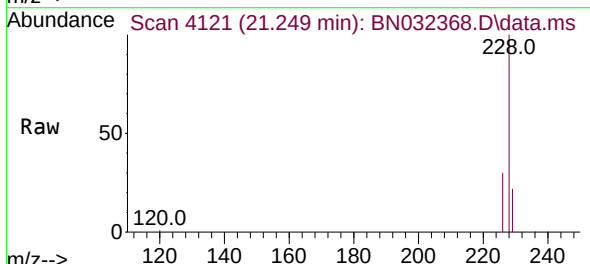
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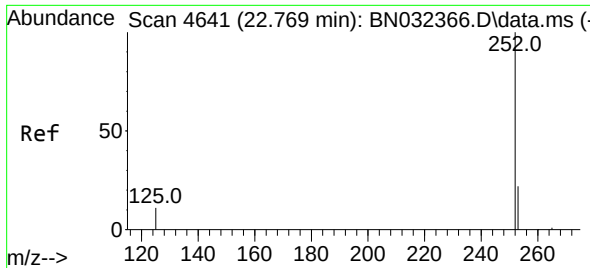


#22  
Chrysene  
Concen: 4.383 ng/u1  
RT: 21.249 min Scan# 4121  
Delta R.T. -0.018 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

Tgt Ion:228 Resp: 285446  
Ion Ratio Lower Upper  
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226 30.2 23.6 35.4  
229 21.9 15.7 23.5

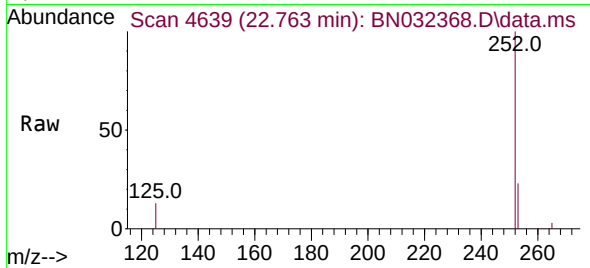






#24  
Benzo(b)fluoranthene  
Concen: 5.306 ng/ul m  
RT: 22.763 min Scan# 4639  
Delta R.T. -0.021 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

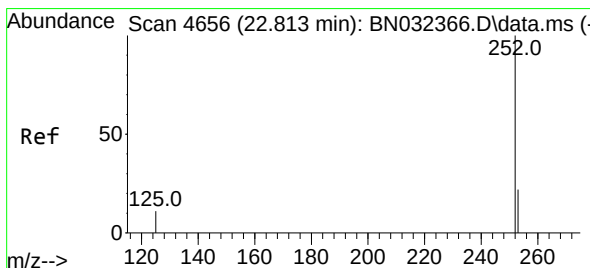
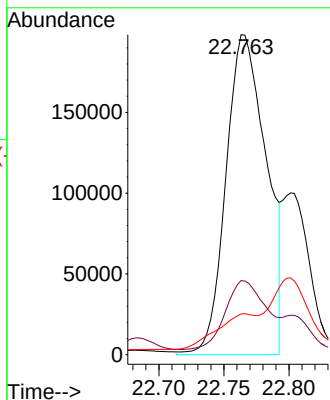
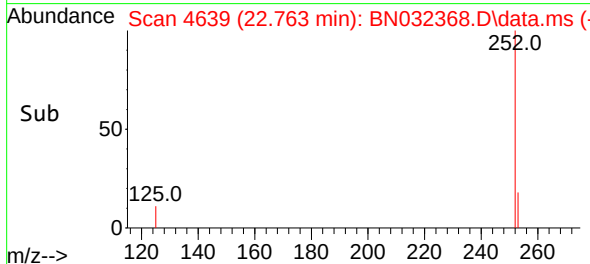
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



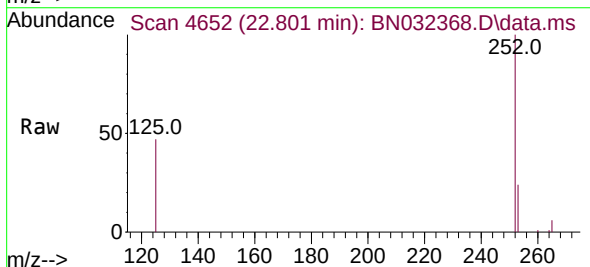
Tgt Ion:252 Resp: 428414  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 50.2  
125 12.7 0.0 32.0

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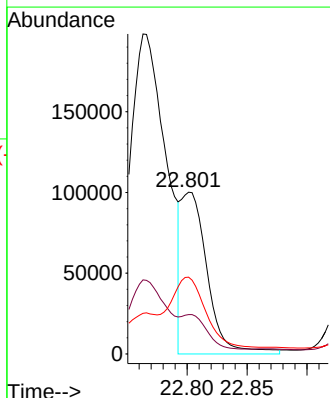
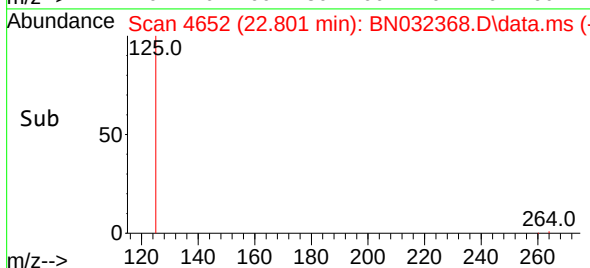
Reviewed By :Jagrut Upadhyay 07/02/2024  
Supervised By :mohammad ahmed 07/04/2024

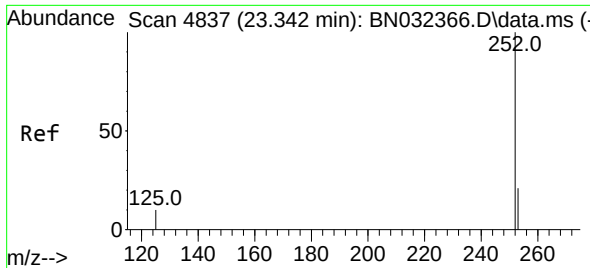


#25  
Benzo(k)fluoranthene  
Concen: 1.946 ng/ul m  
RT: 22.801 min Scan# 4652  
Delta R.T. -0.026 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55



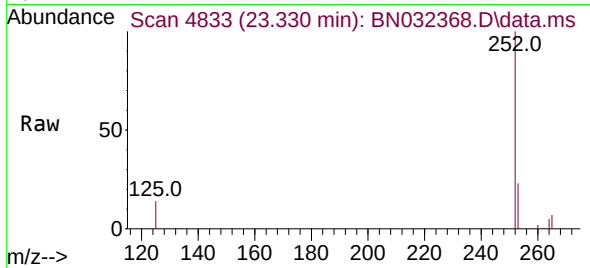
Tgt Ion:252 Resp: 152689  
Ion Ratio Lower Upper  
252 100  
253 24.3 20.3 30.5  
125 47.5 12.8 19.2#





#26  
Benzo(a)pyrene  
Concen: 3.348 ng/ul  
RT: 23.330 min Scan# 4833  
Delta R.T. -0.029 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

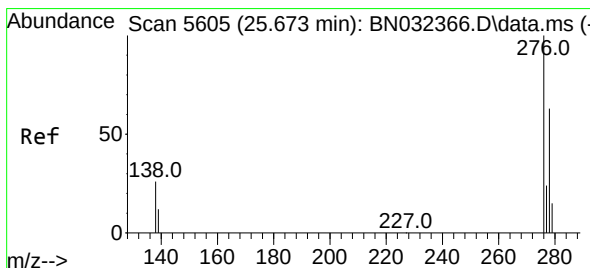
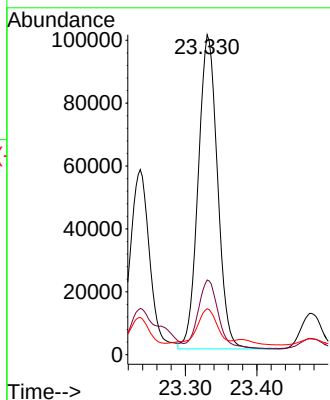
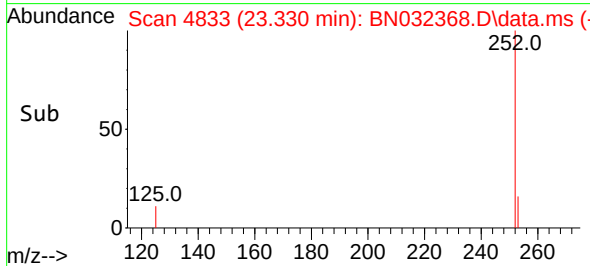
Instrument :  
BNA\_N  
ClientSampleId :  
A4B72



Tgt Ion:252 Resp: 18808  
Ion Ratio Lower Upper  
252 100  
253 23.3 22.2 33.2  
125 14.3 16.4 24.6

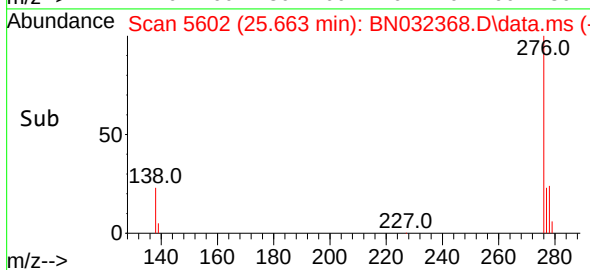
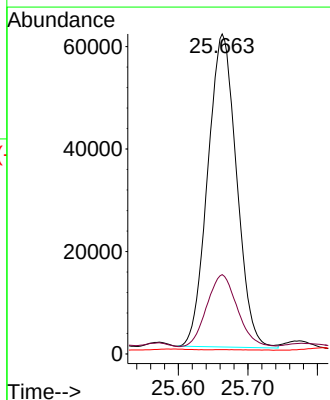
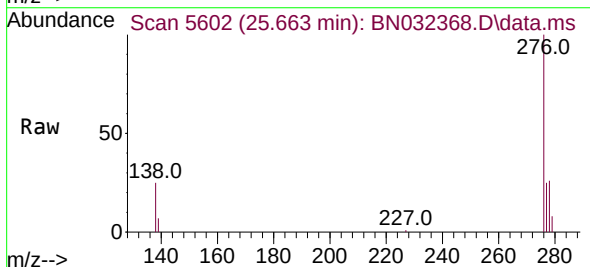
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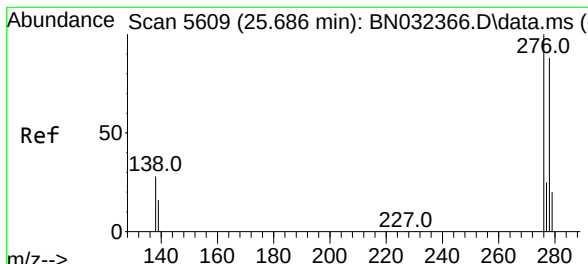
Reviewed By :Jagrut Upadhyay 07/02/2024  
Supervised By :mohammad ahmed 07/04/2024



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.999 ng/ul  
RT: 25.663 min Scan# 5602  
Delta R.T. -0.037 min  
Lab File: BN032368.D  
Acq: 01 Jul 2024 18:55

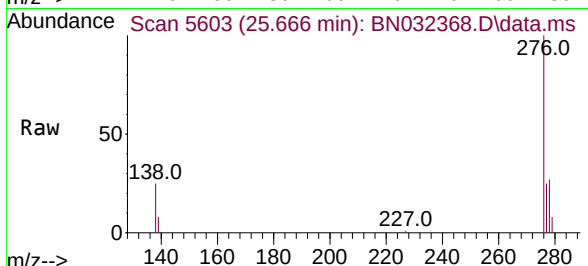
Tgt Ion:276 Resp: 175780  
Ion Ratio Lower Upper  
276 100  
138 25.2 21.3 31.9  
227 0.0 0.1 0.1





#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.836 ng/ul  
 RT: 25.666 min Scan# 50  
 Delta R.T. -0.044 min  
 Lab File: BN032368.D  
 Acq: 01 Jul 2024 18:55

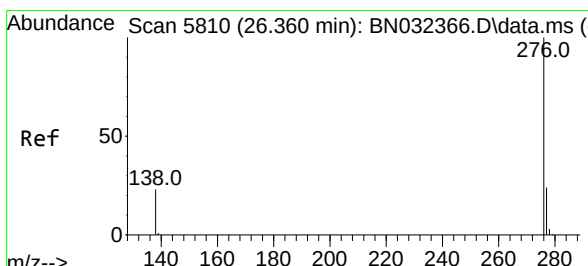
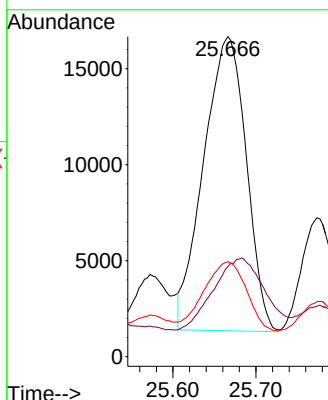
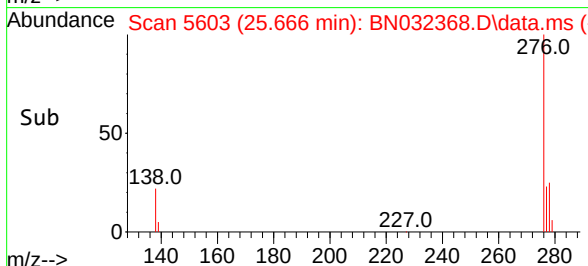
Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4B72



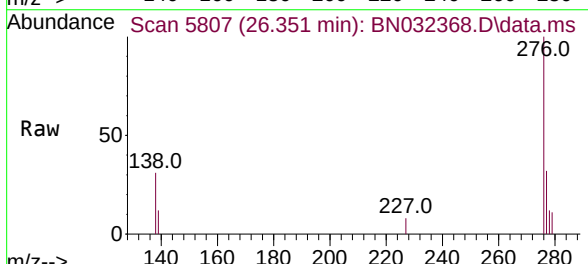
Tgt Ion:278 Resp: 5464  
 Ion Ratio Lower Upper  
 278 100  
 139 28.1 15.9 23.9#  
 279 29.7 21.1 31.7

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/02/2024  
 Supervised By :mohammad ahmed 07/04/2024



#29  
 Benzo(g,h,i)perylene  
 Concen: 0.391 ng/ul  
 RT: 26.351 min Scan# 5807  
 Delta R.T. -0.030 min  
 Lab File: BN032368.D  
 Acq: 01 Jul 2024 18:55



Tgt Ion:276 Resp: 27396  
 Ion Ratio Lower Upper  
 276 100  
 138 31.2 19.8 29.6#  
 277 31.5 19.8 29.6#

