

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
 Data File : BN026565.D  
 Acq On : 18 Jul 2023 15:31  
 Operator : MA/JU  
 Sample : 03458-15  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46M8

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
 Supervised By :mohammad ahmed 07/19/2023

Quant Time: Jul 19 00:17:10 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN071223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 19 00:15:47 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.925  | 152  | 2384     | 0.400 | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.737 | 136  | 6989     | 0.400 | ng/ul  | #-0.01   |
| 9) Acenaphthene-d10         | 14.575 | 164  | 4644     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.326 | 188  | 14398    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.526 | 240  | 12426    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.964 | 264  | 11350    | 0.400 | ng/ul  | #-0.01   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.284  | 96   | 4984     | 1.587 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.332 | 152  | 1223     | 0.129 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.354 | 212  | 4281     | 0.099 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.787 | 128  | 18422    | 0.960 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.403 | 142  | 4527     | 0.416 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.623 | 142  | 3750     | 0.322 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.293 | 152  | 5113     | 0.225 | ng/ul# | 92       |
| 11) Acenaphthene            | 14.635 | 153  | 14412    | 0.832 | ng/ul  | 99       |
| 12) Fluorene                | 15.625 | 166  | 17515    | 0.964 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.368 | 178  | 225534   | 4.918 | ng/ul  | 97       |
| 16) Anthracene              | 17.457 | 178  | 41867    | 1.052 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.387 | 202  | 249990   | 4.292 | ng/ul# | 94       |
| 20) Pyrene                  | 19.749 | 202  | 221872   | 3.508 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.508 | 228  | 121843   | 2.668 | ng/ul  | 99       |
| 22) Chrysene                | 21.564 | 228  | 120551   | 2.319 | ng/ul  | 100      |
| 24) Benzo(b)fluoranthene    | 23.221 | 252  | 108650m  | 2.457 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.265 | 252  | 45542m   | 0.983 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.853 | 252  | 32821    | 0.834 | ng/ul# | 79       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.497 | 276  | 28760    | 0.557 | ng/ul# | 77       |
| 28) Dibenzo(a,h)anthracene  | 26.511 | 278  | 12101    | 0.306 | ng/ul  | 96       |
| 29) Benzo(g,h,i)perylene    | 27.289 | 276  | 1745     | 0.038 | ng/ul# | 51       |

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

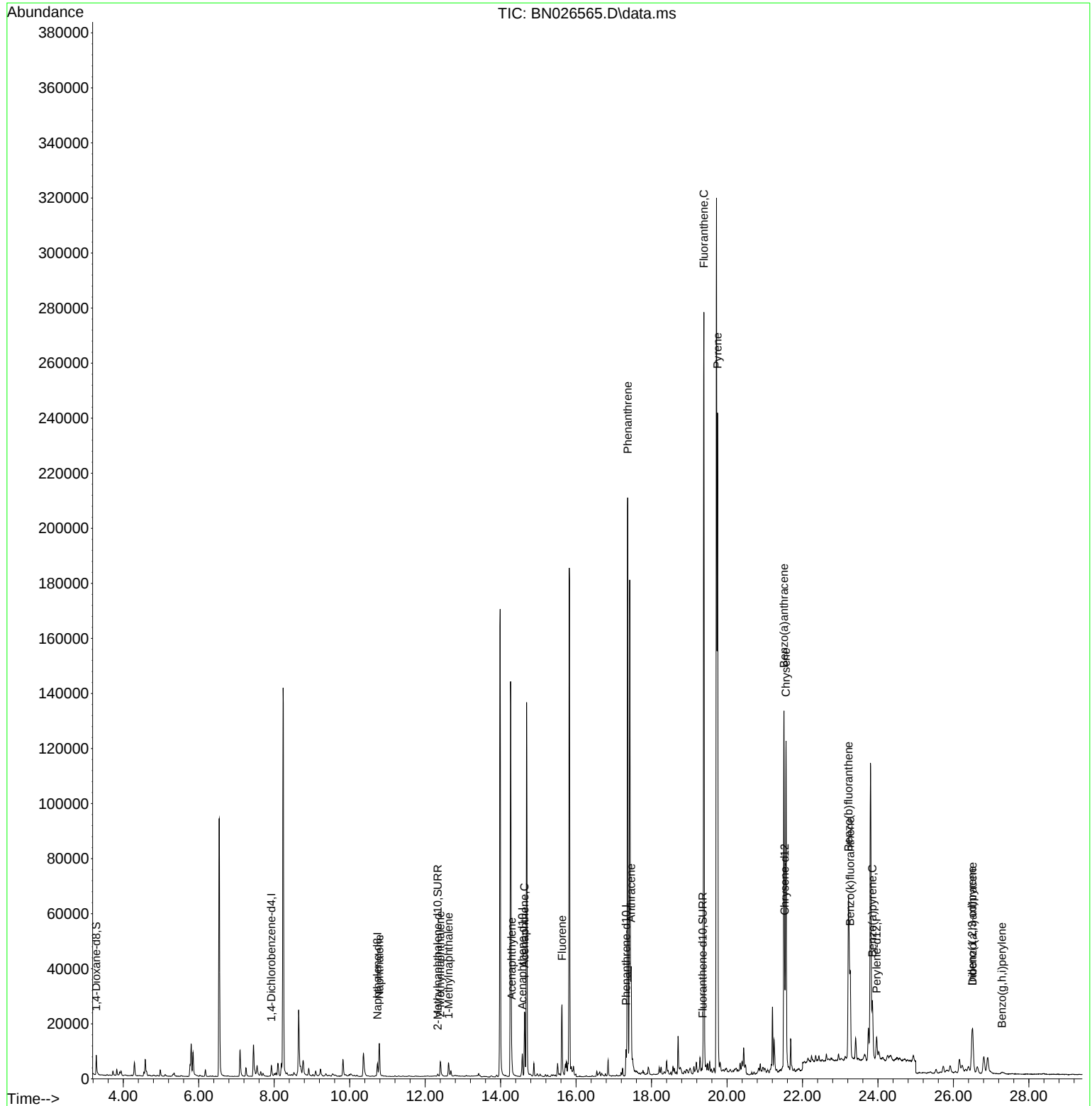
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN071823\  
Data File : BN026565.D  
Acq On : 18 Jul 2023 15:31  
Operator : MA/JU  
Sample : 03458-15  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

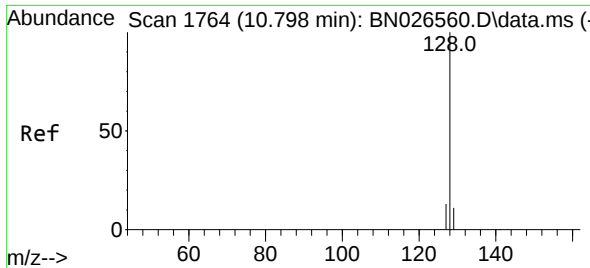
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

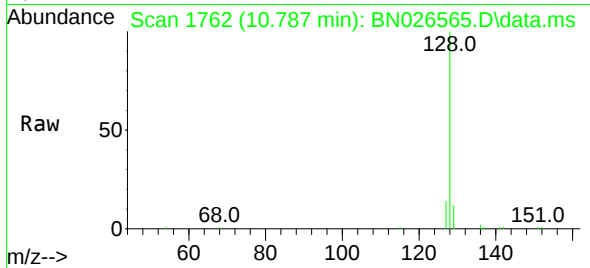
Quant Time: Jul 19 00:17:10 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN071223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 19 00:15:47 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.960 ng/ul  
RT: 10.787 min Scan# 1762  
Delta R.T. -0.011 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

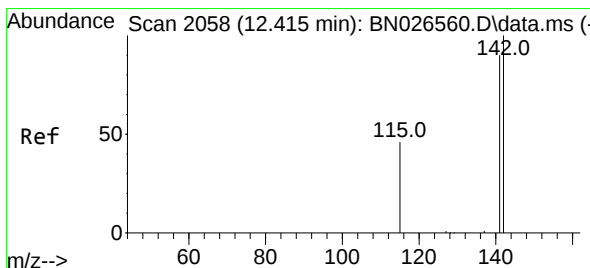
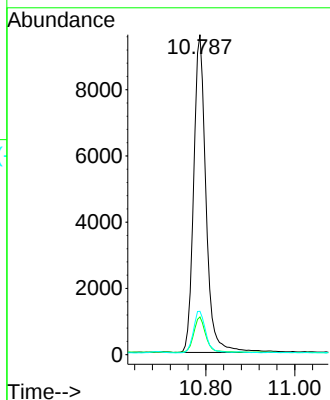
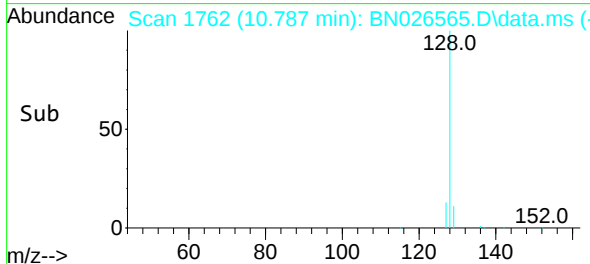
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



Tgt Ion:128 Resp: 1842  
Ion Ratio Lower Upper  
128 100  
129 11.8 10.2 15.2  
127 13.5 11.4 17.0

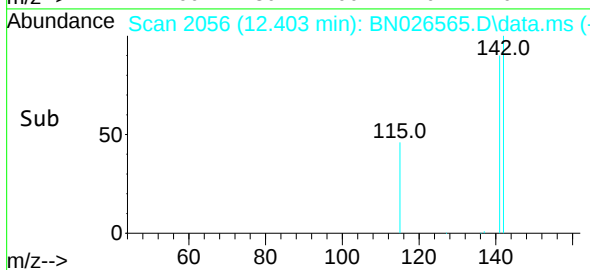
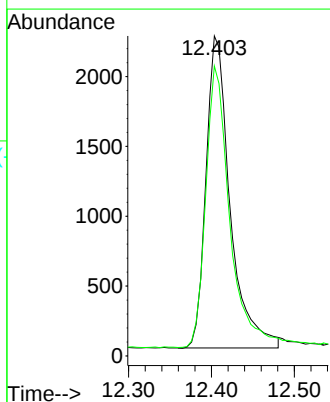
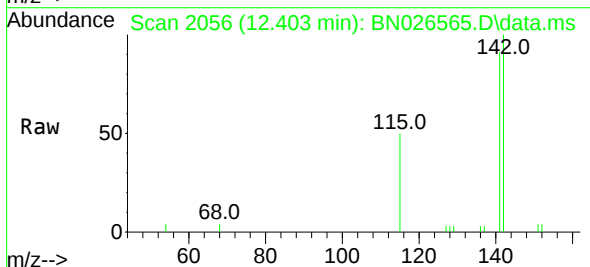
Manual Integrations  
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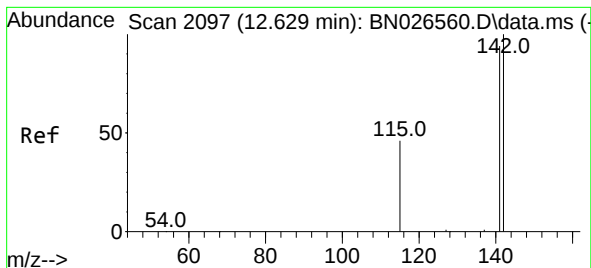
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#7  
2-Methylnaphthalene  
Concen: 0.416 ng/ul  
RT: 12.403 min Scan# 2056  
Delta R.T. -0.011 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

Tgt Ion:142 Resp: 4527  
Ion Ratio Lower Upper  
142 100  
141 89.6 72.3 108.5





#8

1-Methylnaphthalene

Concen: 0.322 ng/ul

RT: 12.623 min Scan# 2096

Delta R.T. -0.006 min

Lab File: BN026565.D

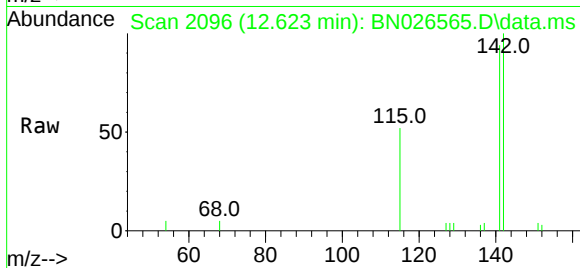
Acq: 18 Jul 2023 15:31

Instrument :

BNA\_N

ClientSampleId :

A46M8



Tgt Ion:142 Resp: 3750

Ion Ratio Lower Upper

142 100

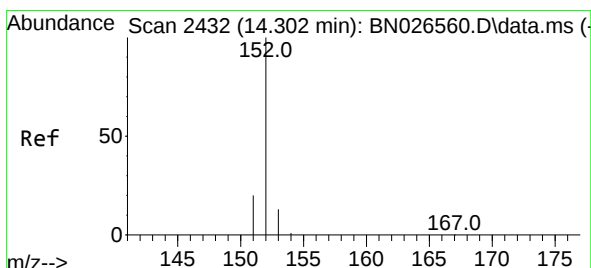
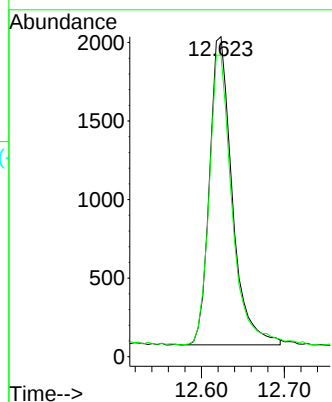
141 94.3 74.5 111.7

Manual Integrations

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Reviewed By :Yogesh Patel 07/19/2023

Supervised By :mohammad ahmed 07/19/2023



#10

Acenaphthylene

Concen: 0.225 ng/ul

RT: 14.293 min Scan# 2430

Delta R.T. -0.009 min

Lab File: BN026565.D

Acq: 18 Jul 2023 15:31

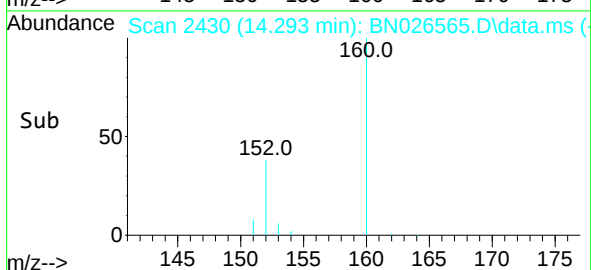
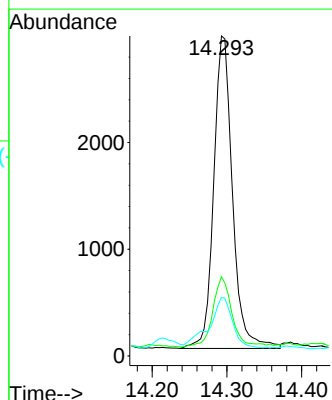
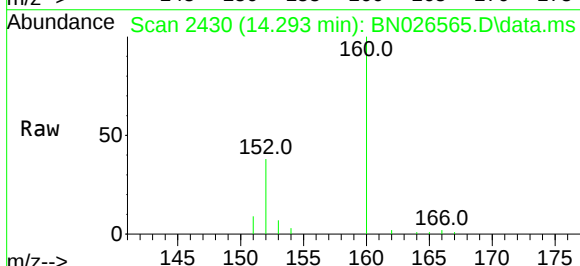
Tgt Ion:152 Resp: 5113

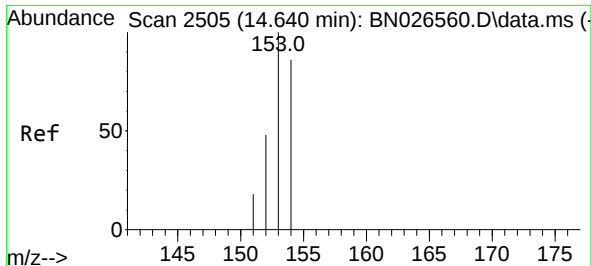
Ion Ratio Lower Upper

152 100

151 24.7 17.0 25.6

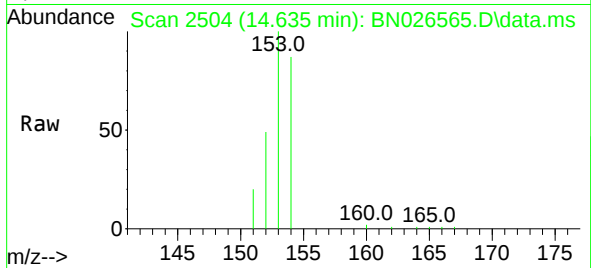
153 18.3 11.4 17.2#





#11  
Acenaphthene  
Concen: 0.832 ng/u1  
RT: 14.635 min Scan# 2111  
Delta R.T. -0.005 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

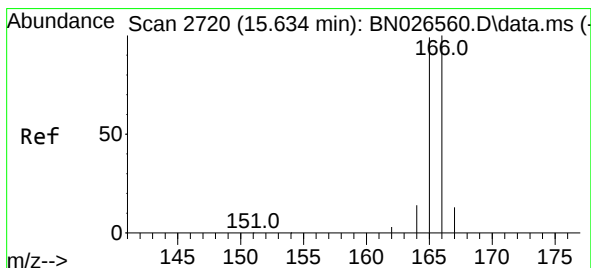
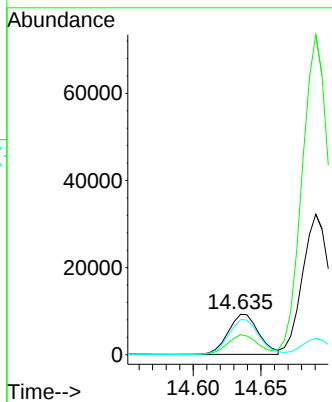
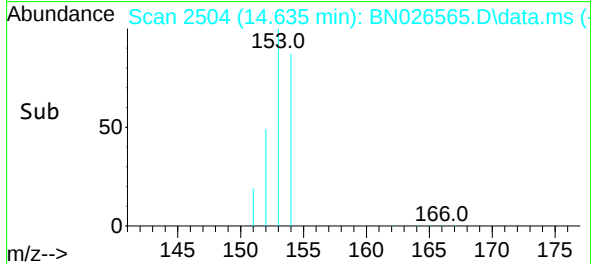
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



Tgt Ion:153 Resp: 14412  
Ion Ratio Lower Upper  
153 100  
152 49.4 40.2 60.4  
154 86.7 69.3 103.9

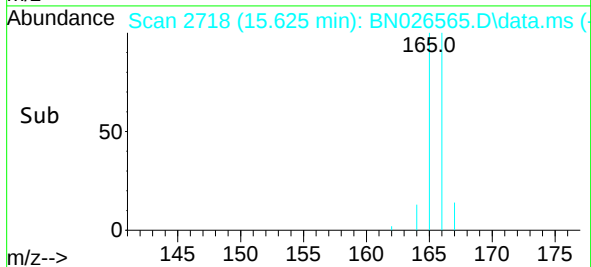
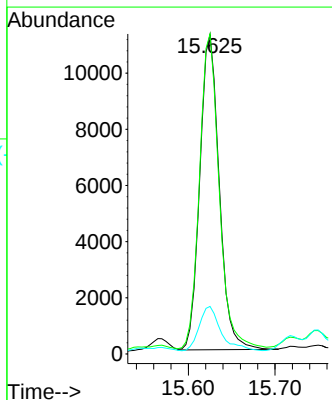
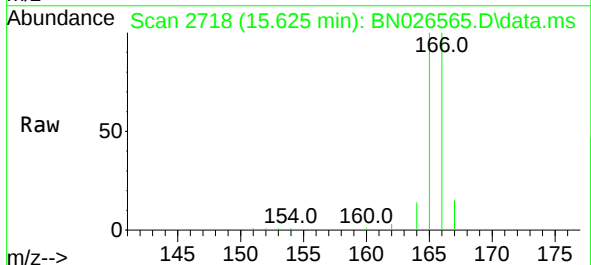
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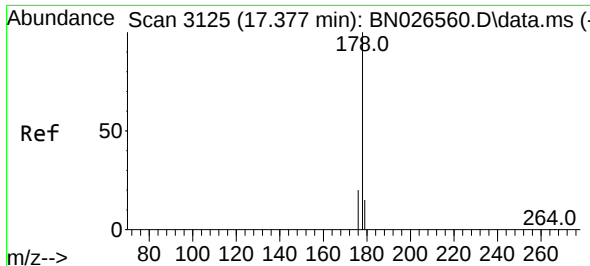
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#12  
Fluorene  
Concen: 0.964 ng/u1  
RT: 15.625 min Scan# 2718  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

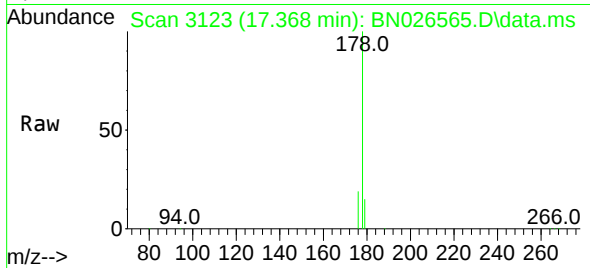
Tgt Ion:166 Resp: 17515  
Ion Ratio Lower Upper  
166 100  
165 100.2 80.6 120.8  
167 14.9 12.0 18.0





#15  
Phenanthrene  
Concen: 4.918 ng/u1  
RT: 17.368 min Scan# 3123  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

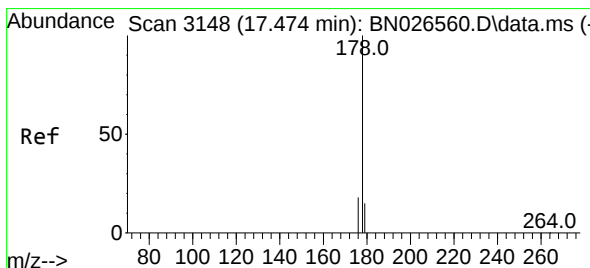
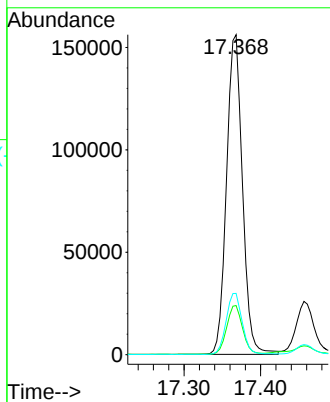
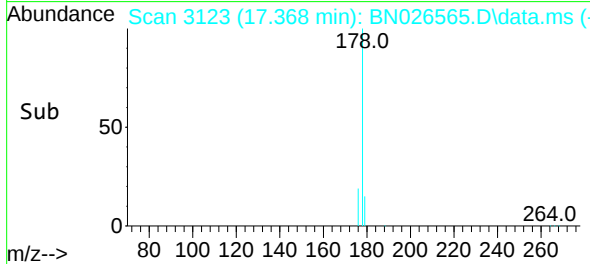
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



Tgt Ion:178 Resp: 225534  
Ion Ratio Lower Upper  
178 100  
179 15.4 13.7 20.5  
176 19.2 16.5 24.7

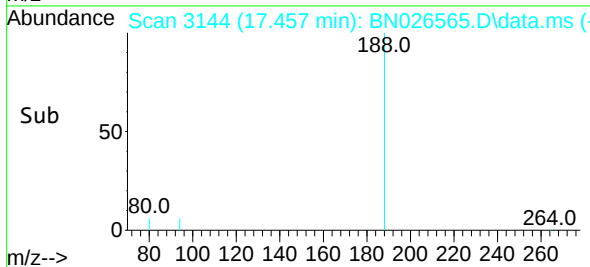
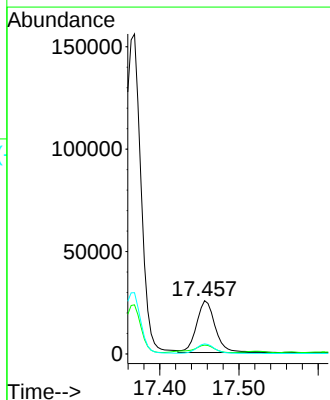
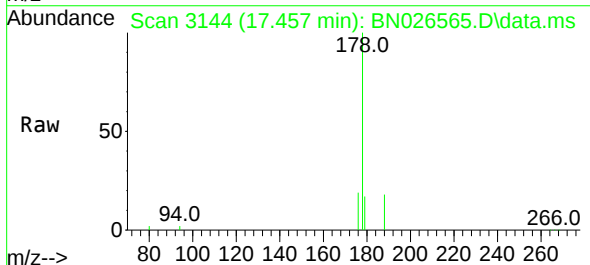
Manual Integrations  
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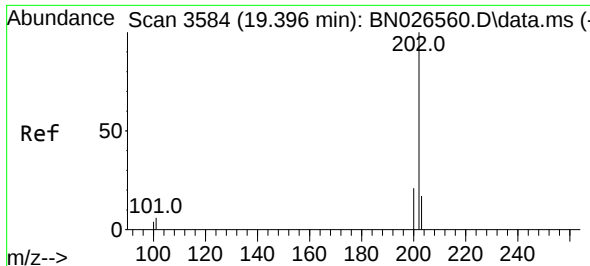
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#16  
Anthracene  
Concen: 1.052 ng/u1  
RT: 17.457 min Scan# 3144  
Delta R.T. -0.017 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

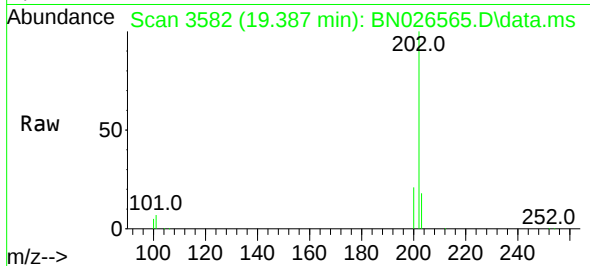
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Ion Ratio Lower Upper  
178 100  
179 16.6 14.8 22.2  
176 18.9 16.6 25.0





#19  
Fluoranthene  
Concen: 4.292 ng/u1  
RT: 19.387 min Scan# 3582  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

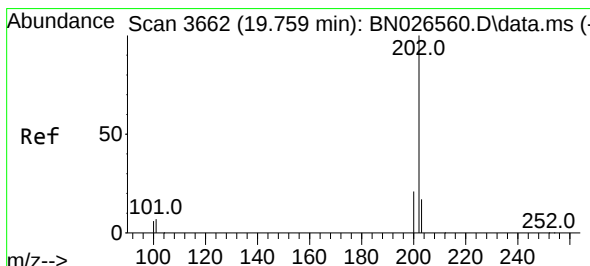
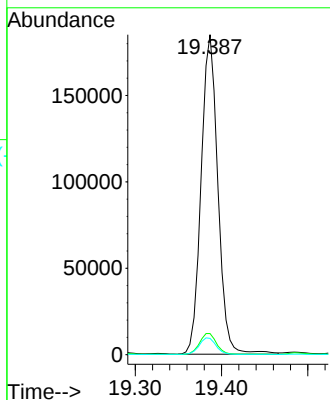
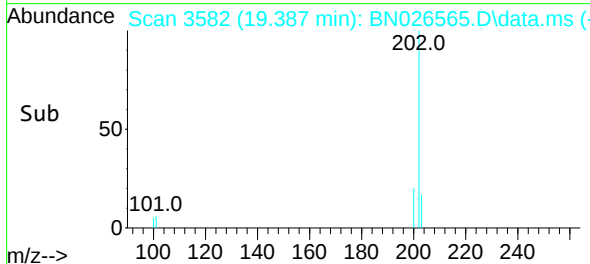
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



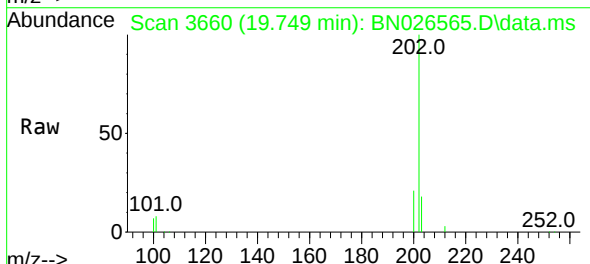
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Ion Ratio Lower Upper  
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101 6.6 7.0 10.4  
100 5.1 6.0 9.0

Manual Integrations  
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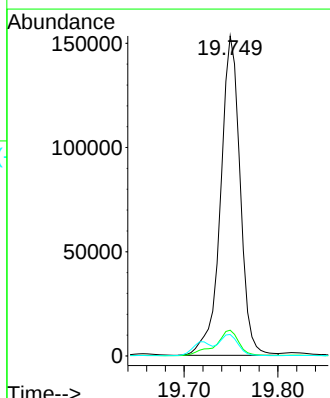
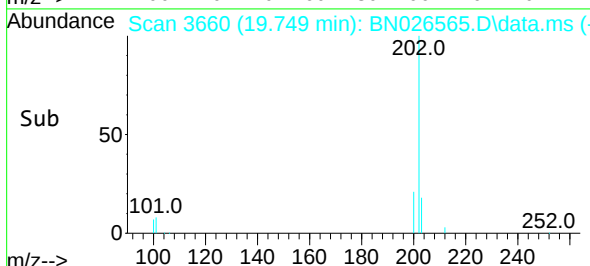
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

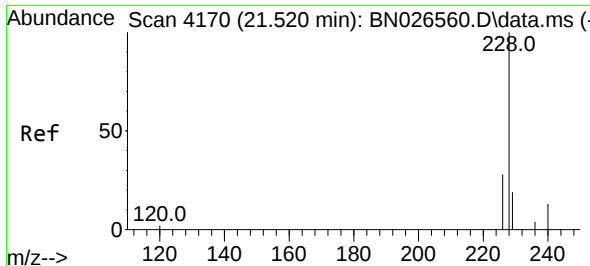


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Pyrene  
Concen: 3.508 ng/u1  
RT: 19.749 min Scan# 3660  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31



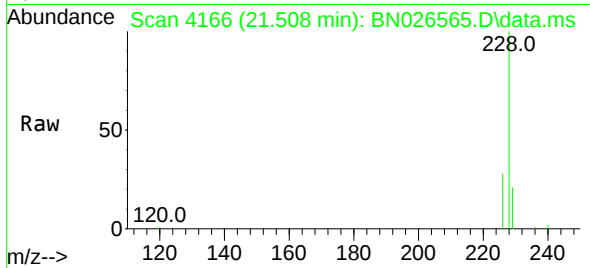
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Ion Ratio Lower Upper  
202 100  
101 8.1 8.0 12.0  
100 6.7 6.2 9.2





#21  
Benzo(a)anthracene  
Concen: 2.668 ng/u1  
RT: 21.508 min Scan# 4166  
Delta R.T. -0.012 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

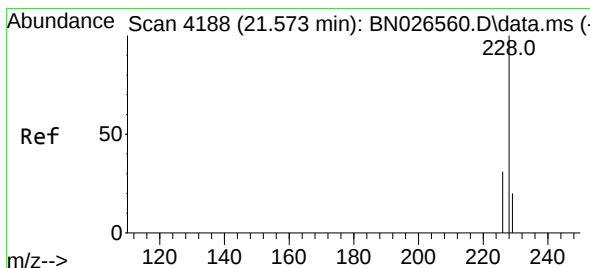
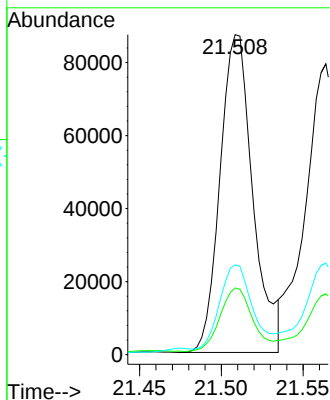
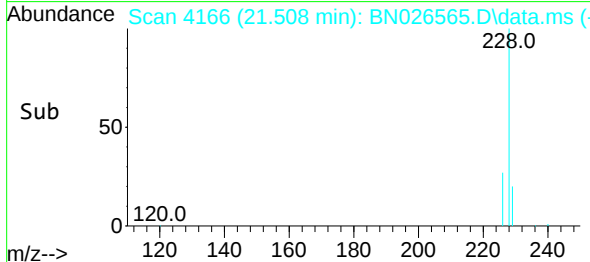
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



Tgt Ion:228 Resp: 12184  
Ion Ratio Lower Upper  
228 100  
229 20.9 16.7 25.1  
226 28.1 23.5 35.3

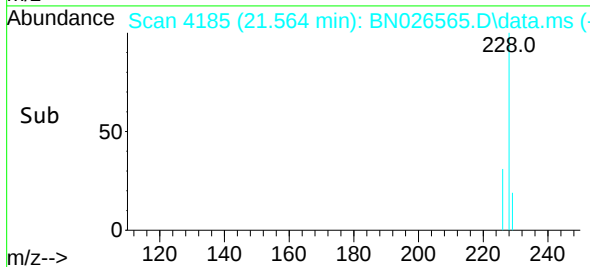
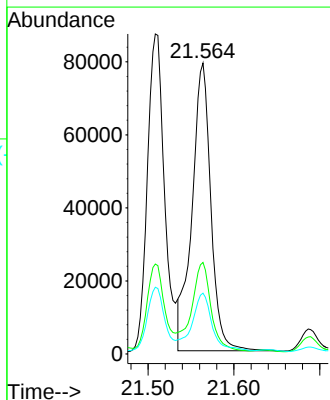
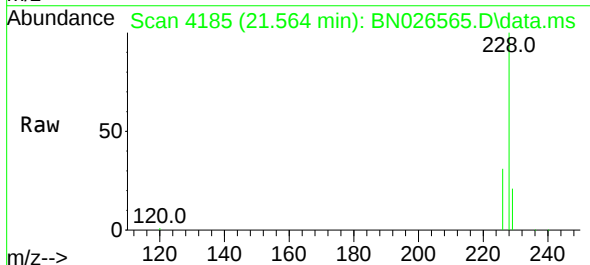
Manual Integrations  
APPROVED

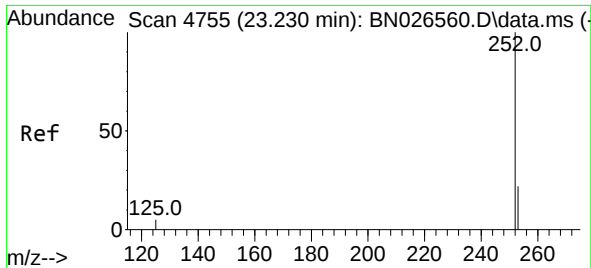
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#22  
Chrysene  
Concen: 2.319 ng/u1  
RT: 21.564 min Scan# 4185  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

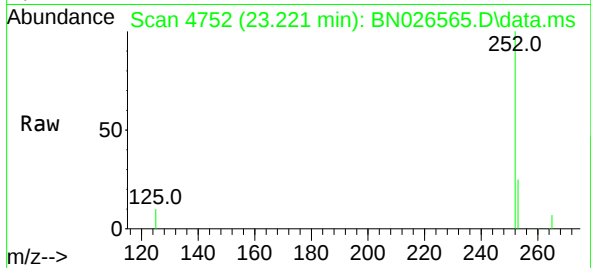
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Ion Ratio Lower Upper  
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226 31.4 25.2 37.8  
229 20.9 16.4 24.6





#24  
Benzo(b)fluoranthene  
Concen: 2.457 ng/ul m  
RT: 23.221 min Scan# 4752  
Delta R.T. -0.009 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

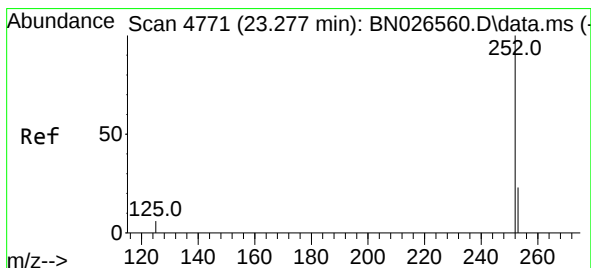
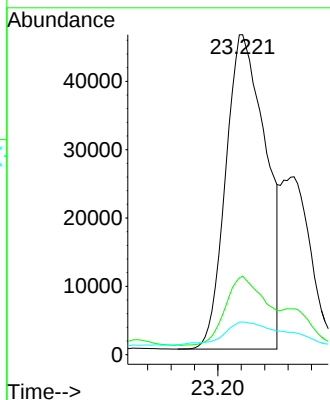
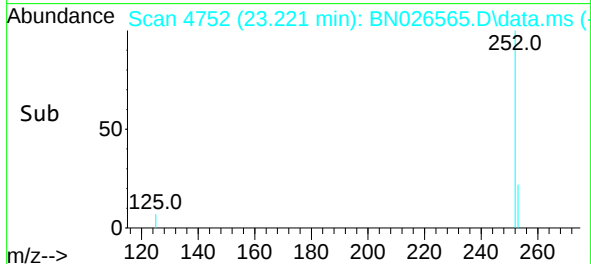
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



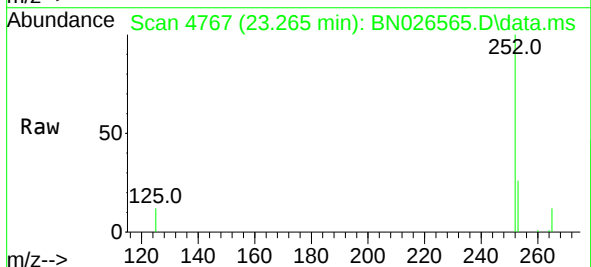
Tgt Ion:252 Resp: 108650  
Ion Ratio Lower Upper  
252 100  
253 24.5 0.0 68.6  
125 10.2 0.0 34.0

Manual Integrations  
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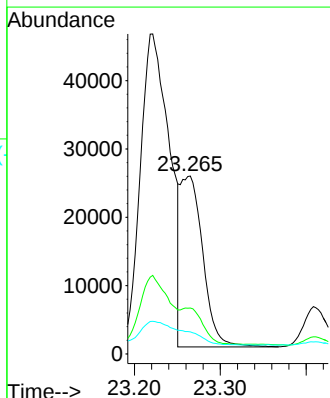
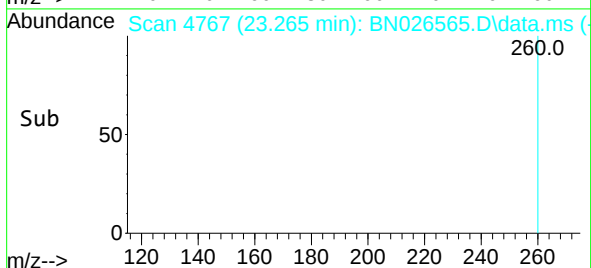
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

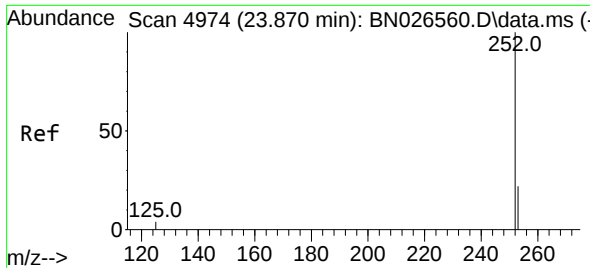


#25  
Benzo(k)fluoranthene  
Concen: 0.983 ng/ul m  
RT: 23.265 min Scan# 4767  
Delta R.T. -0.012 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31



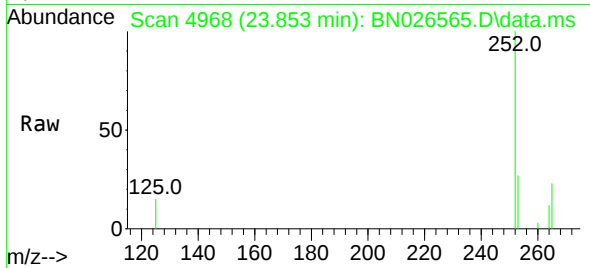
Tgt Ion:252 Resp: 45542  
Ion Ratio Lower Upper  
252 100  
253 25.8 27.2 40.8#  
125 12.4 13.4 20.2#





#26  
Benzo(a)pyrene  
Concen: 0.834 ng/ul  
RT: 23.853 min Scan# 4968  
Delta R.T. -0.018 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

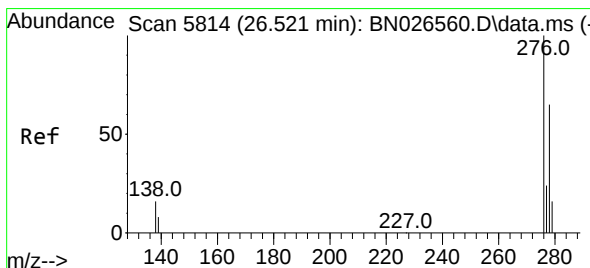
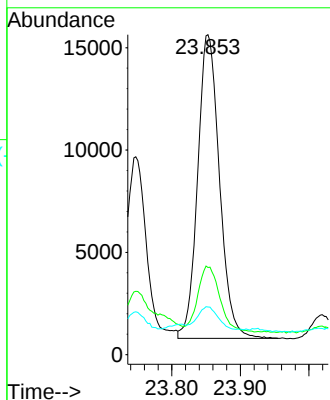
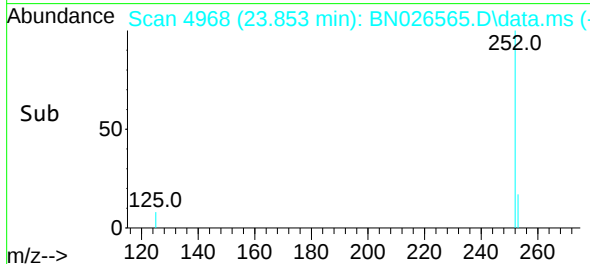
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



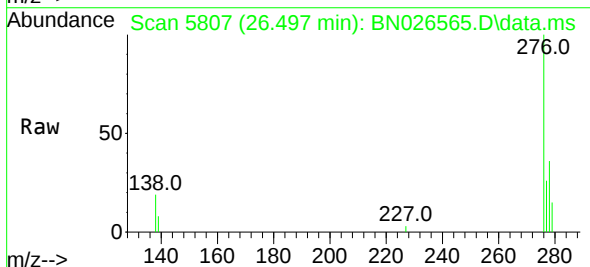
Tgt Ion:252 Resp: 3282  
Ion Ratio Lower Upper  
252 100  
253 27.3 32.6 49.0#  
125 14.9 19.3 28.9#

Manual Integrations  
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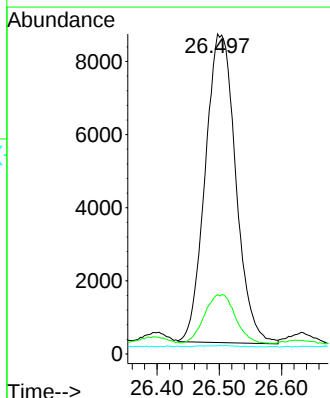
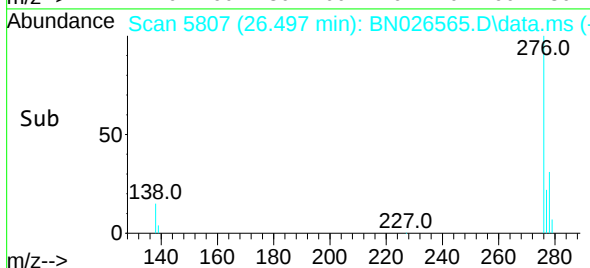
Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023

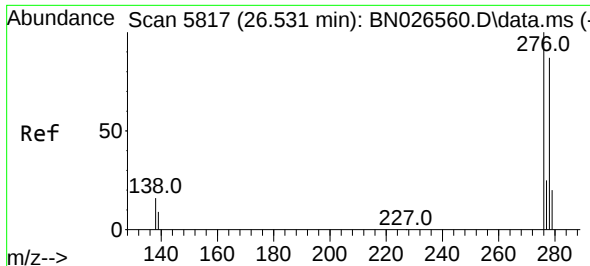


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.557 ng/ul  
RT: 26.497 min Scan# 5807  
Delta R.T. -0.024 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31



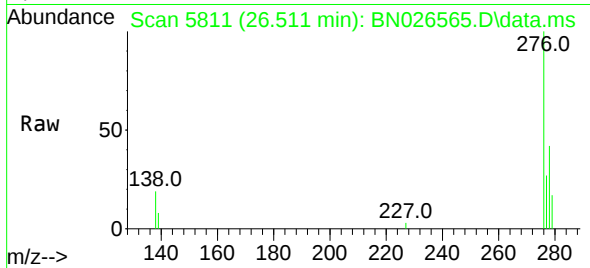
Tgt Ion:276 Resp: 28760  
Ion Ratio Lower Upper  
276 100  
138 15.9 22.2 33.4#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.306 ng/ul  
RT: 26.511 min Scan# 5811  
Delta R.T. -0.020 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31

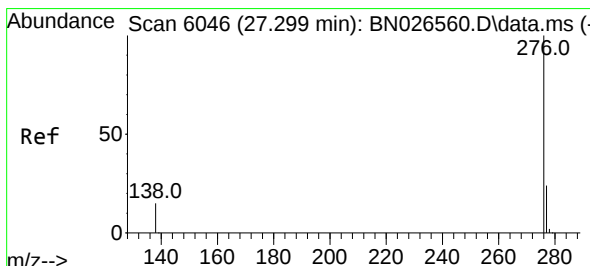
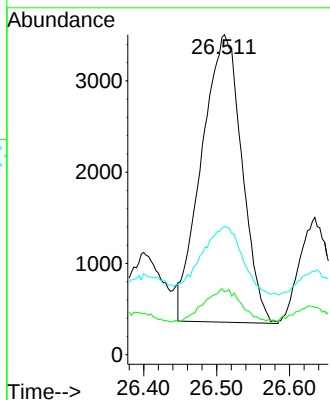
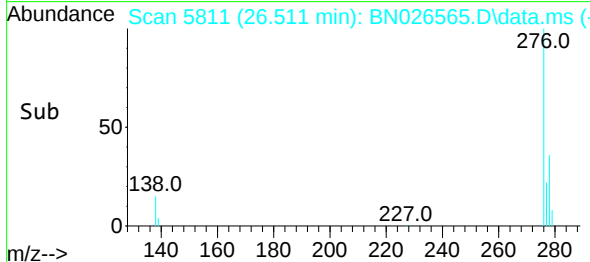
Instrument :  
BNA\_N  
ClientSampleId :  
A46M8



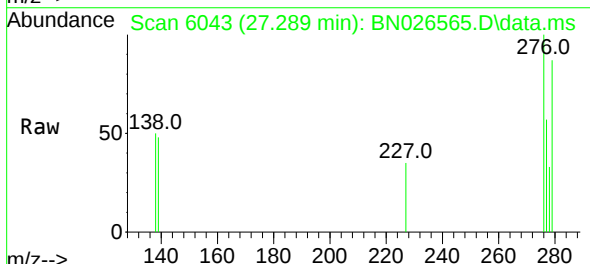
Tgt Ion:278 Resp: 1210  
Ion Ratio Lower Upper  
278 100  
139 19.6 18.9 28.3  
279 40.1 31.3 46.9

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/19/2023  
Supervised By :mohammad ahmed 07/19/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.038 ng/ul  
RT: 27.289 min Scan# 6043  
Delta R.T. -0.010 min  
Lab File: BN026565.D  
Acq: 18 Jul 2023 15:31



Tgt Ion:276 Resp: 1745  
Ion Ratio Lower Upper  
276 100  
138 50.0 22.6 34.0#  
277 57.4 21.8 32.8#

