

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN072323\  
 Data File : BN026687.D  
 Acq On : 23 Jul 2023 22:00  
 Operator : MA/JU  
 Sample : 03472-22  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A46R3

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/24/2023  
 Supervised By :mohammad ahmed 07/24/2023

Quant Time: Jul 24 00:43:15 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 : Mon Jul 24 00:39:11 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.823  | 152  | 2855     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.625 | 136  | 9372     | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.467 | 164  | 6172     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.215 | 188  | 25426    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.408 | 240  | 8919     | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.775 | 264  | 9947     | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.195  | 96   | 11091    | 2.950 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.220 | 152  | 6597     | 0.518 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.246 | 212  | 16148    | 0.522 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.674 | 128  | 1754     | 0.068 | ng/ul# | 85       |
| 7) 2-Methylnaphthalene      | 12.297 | 142  | 622      | 0.043 | ng/ul  | 93       |
| 8) 1-Methylnaphthalene      | 12.511 | 142  | 1650     | 0.105 | ng/ul  | 93       |
| 10) Acenaphthylene          | 14.185 | 152  | 3677     | 0.122 | ng/ul# | 86       |
| 11) Acenaphthene            | 14.527 | 153  | 3049m    | 0.132 | ng/ul  |          |
| 12) Fluorene                | 15.512 | 166  | 4508     | 0.187 | ng/ul# | 94       |
| 15) Phenanthrene            | 17.253 | 178  | 54218    | 0.670 | ng/ul  | 99       |
| 16) Anthracene              | 17.346 | 178  | 8183     | 0.116 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.274 | 202  | 97876    | 2.341 | ng/ul  | 98       |
| 20) Pyrene                  | 19.636 | 202  | 92185    | 2.030 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.390 | 228  | 38573    | 1.177 | ng/ul  | 97       |
| 22) Chrysene                | 21.443 | 228  | 44720    | 1.199 | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.056 | 252  | 56531m   | 1.459 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.100 | 252  | 19632m   | 0.483 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.667 | 252  | 34412    | 0.998 | ng/ul# | 81       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.224 | 276  | 28106    | 0.622 | ng/ul# | 83       |
| 28) Dibenzo(a,h)anthracene  | 26.227 | 278  | 6594     | 0.190 | ng/ul# | 84       |
| 29) Benzo(g,h,i)perylene    | 26.982 | 276  | 28460    | 0.713 | ng/ul# | 93       |
| -----                       |        |      |          |       |        |          |

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

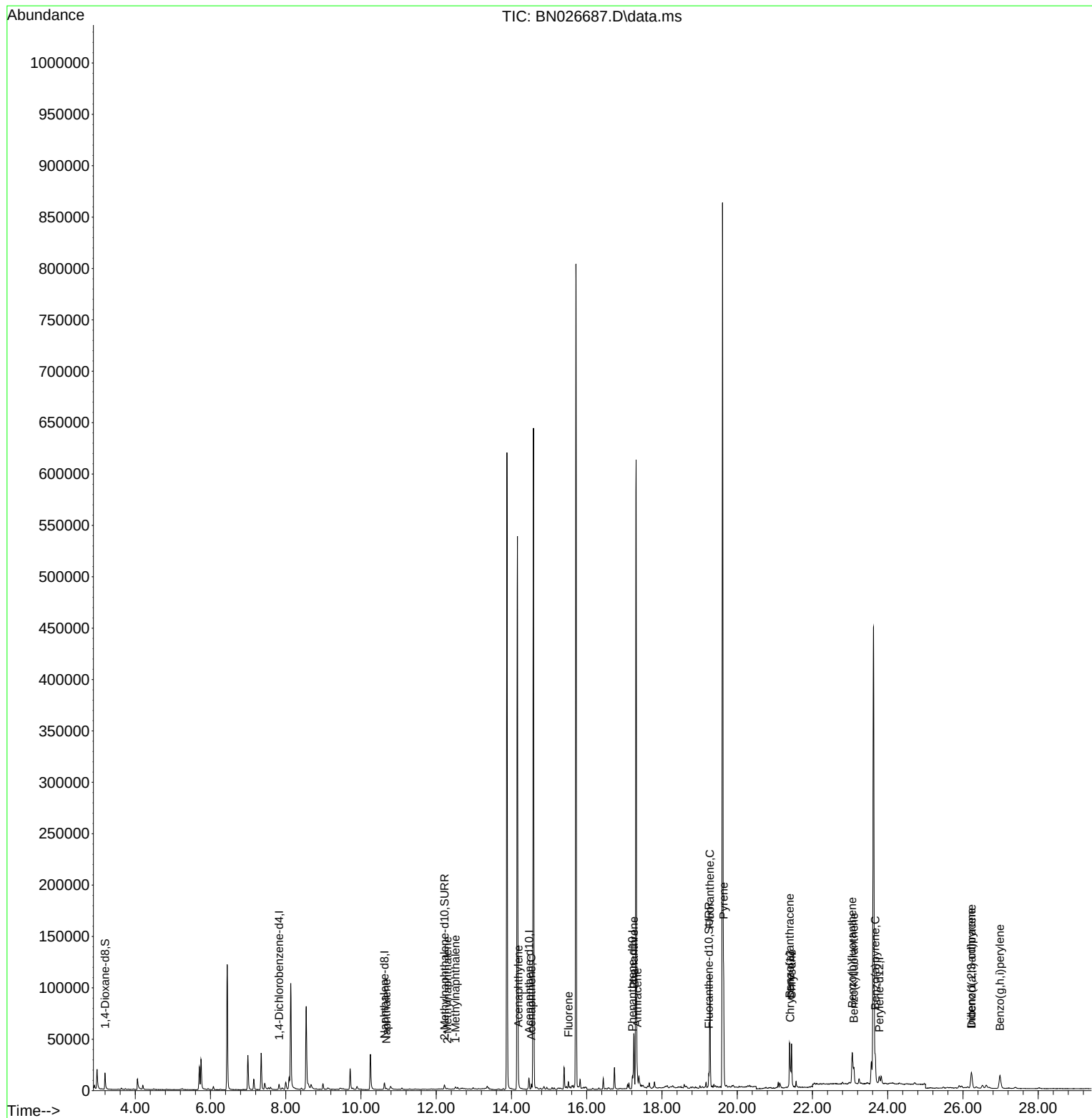
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN072323\  
Data File : BN026687.D  
Acq On : 23 Jul 2023 22:00  
Operator : MA/JU  
Sample : 03472-22  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

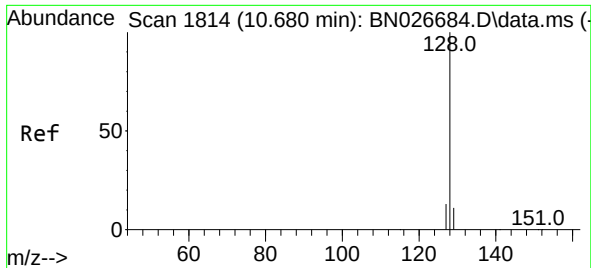
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023

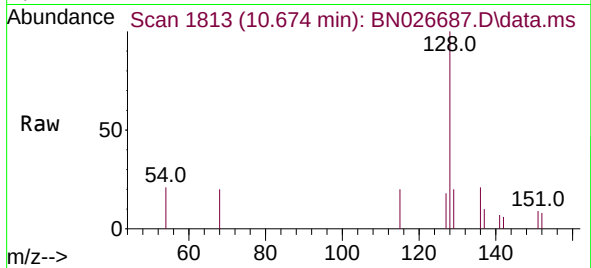
Quant Time: Jul 24 00:43:15 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN071223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 24 00:39:11 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.068 ng/ul  
RT: 10.674 min Scan# 1813  
Delta R.T. -0.000 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

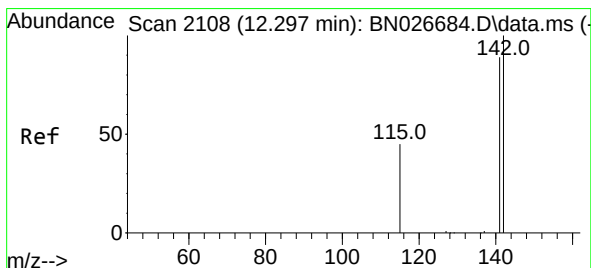
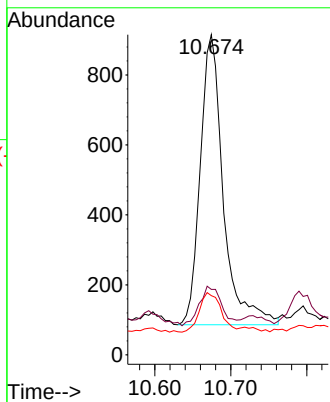
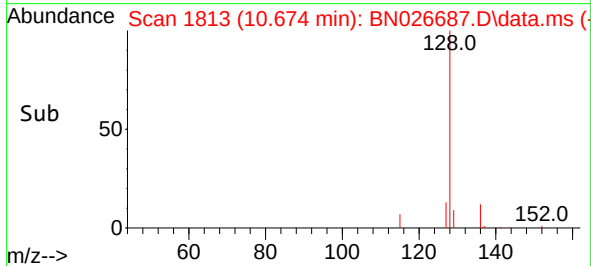
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



Tgt Ion:128 Resp: 1754  
Ion Ratio Lower Upper  
128 100  
129 20.4 10.2 15.2  
127 18.5 11.4 17.0

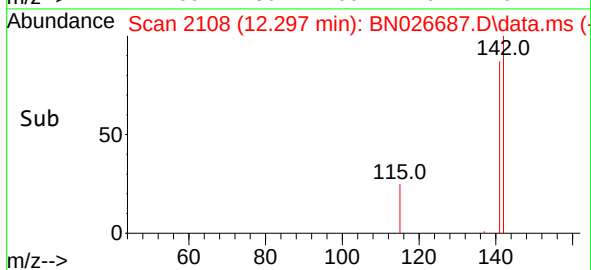
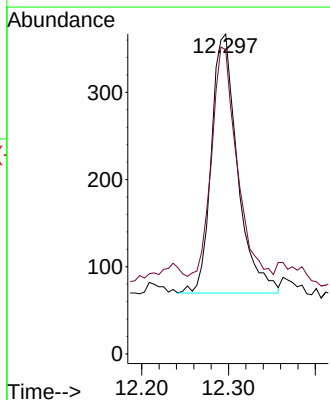
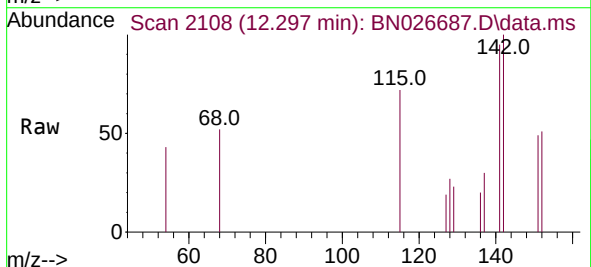
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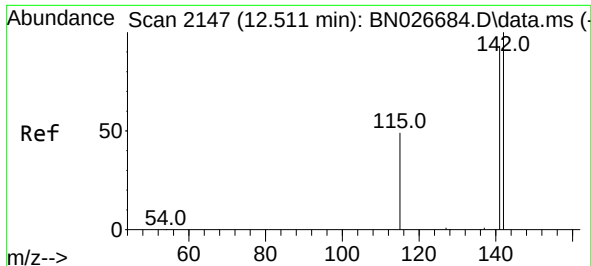
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#7  
2-Methylnaphthalene  
Concen: 0.043 ng/ul  
RT: 12.297 min Scan# 2108  
Delta R.T. -0.000 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

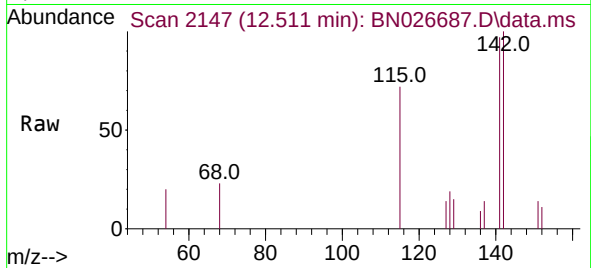
Tgt Ion:142 Resp: 622  
Ion Ratio Lower Upper  
142 100  
141 84.1 72.3 108.5





#8  
1-Methylnaphthalene  
Concen: 0.105 ng/ul  
RT: 12.511 min Scan# 2147  
Delta R.T. -0.000 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

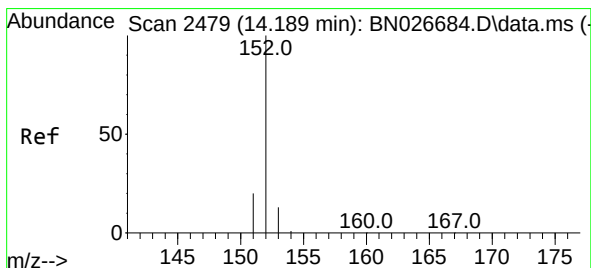
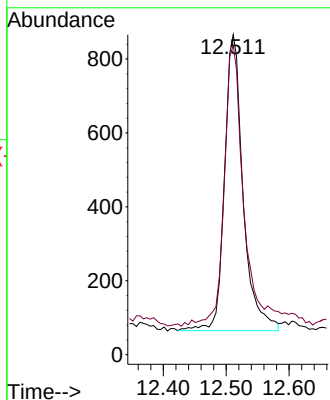
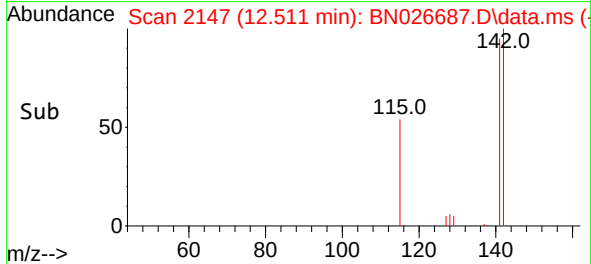
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:142 Resp: 1650  
Ion Ratio Lower Upper  
142 100  
141 100.0 74.5 111.7

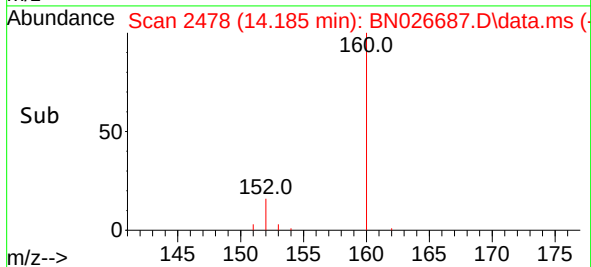
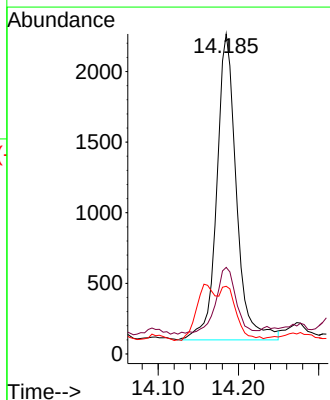
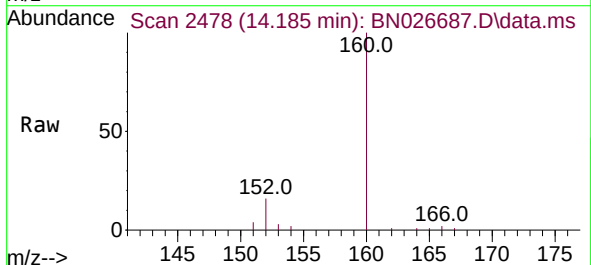
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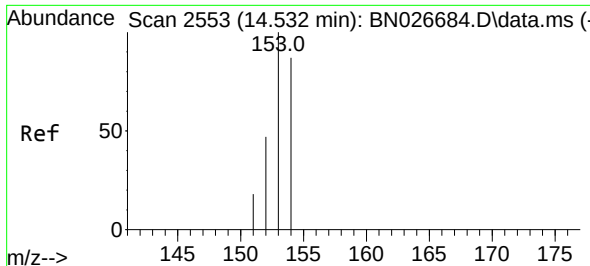
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#10  
Acenaphthylene  
Concen: 0.122 ng/ul  
RT: 14.185 min Scan# 2478  
Delta R.T. -0.005 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

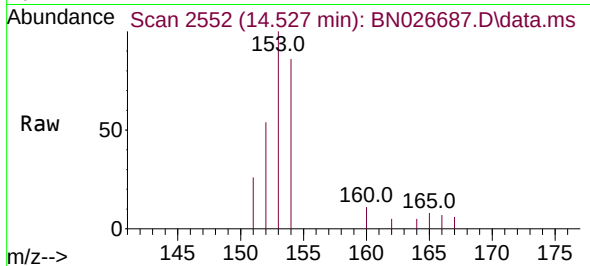
Tgt Ion:152 Resp: 3677  
Ion Ratio Lower Upper  
152 100  
151 27.1 17.0 25.6#  
153 21.1 11.4 17.2#





#11  
Acenaphthene  
Concen: 0.132 ng/ul m  
RT: 14.527 min Scan# 2552  
Delta R.T. -0.000 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

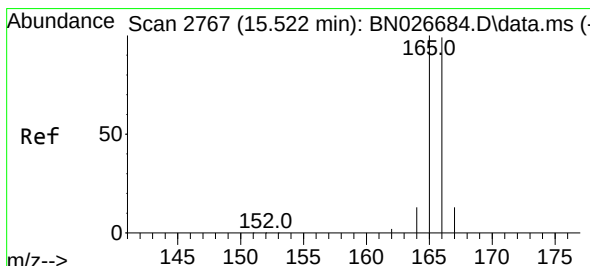
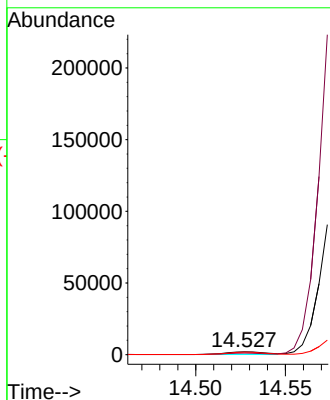
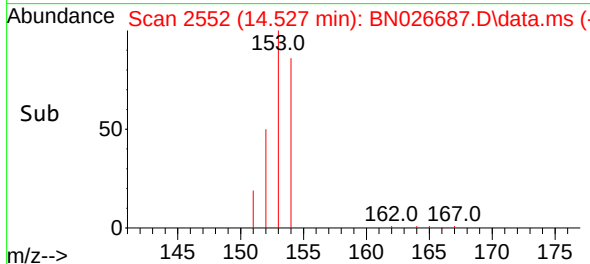
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:153 Resp: 3049  
Ion Ratio Lower Upper  
153 100  
152 54.1 40.2 60.4  
154 85.6 69.3 103.9

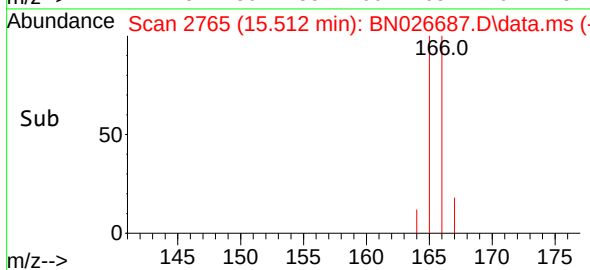
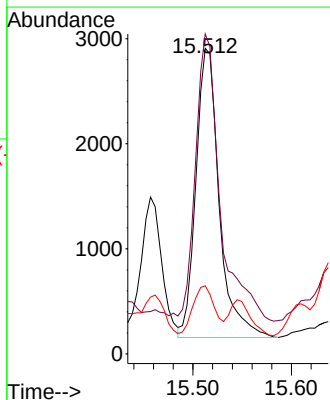
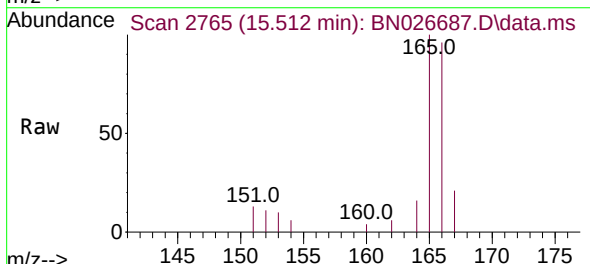
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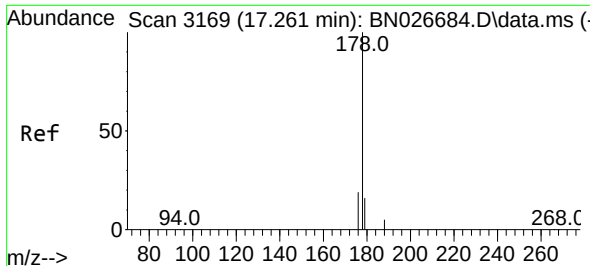
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#12  
Fluorene  
Concen: 0.187 ng/ul  
RT: 15.512 min Scan# 2765  
Delta R.T. -0.005 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

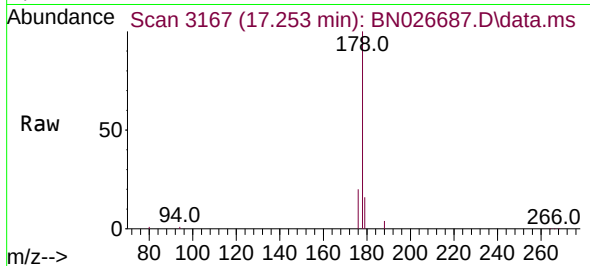
Tgt Ion:166 Resp: 4508  
Ion Ratio Lower Upper  
166 100  
165 104.7 80.6 120.8  
167 22.3 12.0 18.0#





#15  
Phenanthrene  
Concen: 0.670 ng/u1  
RT: 17.253 min Scan# 3167  
Delta R.T. -0.004 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

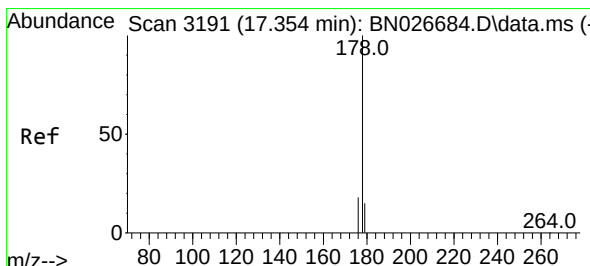
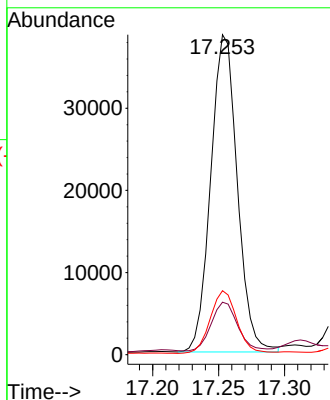
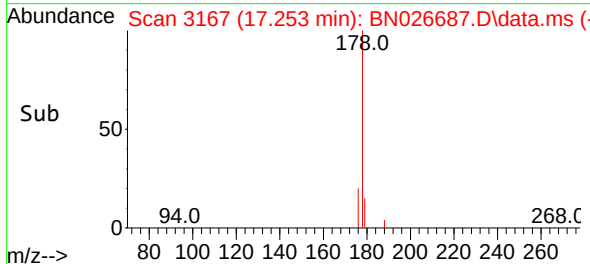
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



Tgt Ion:178 Resp: 54218  
Ion Ratio Lower Upper  
178 100  
179 16.4 13.7 20.5  
176 20.0 16.5 24.7

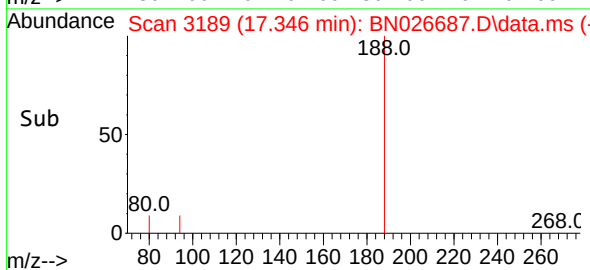
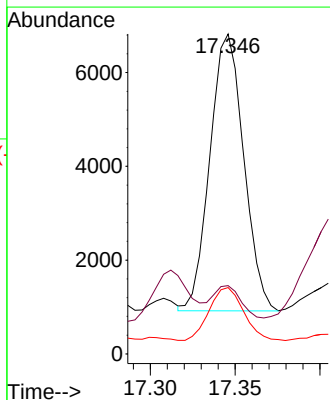
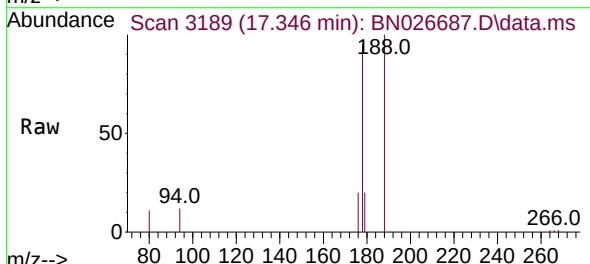
Manual Integrations  
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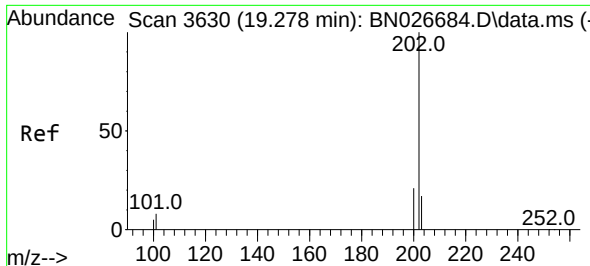
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#16  
Anthracene  
Concen: 0.116 ng/u1  
RT: 17.346 min Scan# 3189  
Delta R.T. -0.004 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

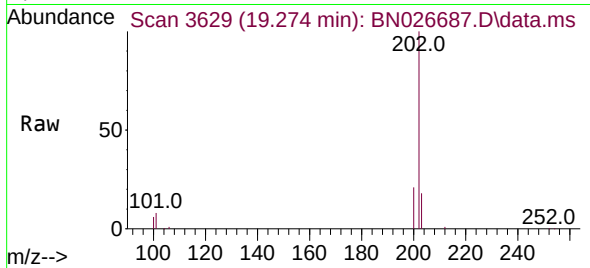
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Ion Ratio Lower Upper  
178 100  
179 21.4 14.8 22.2  
176 20.7 16.6 25.0





#19  
Fluoranthene  
Concen: 2.341 ng/u1  
RT: 19.274 min Scan# 3629  
Delta R.T. -0.005 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

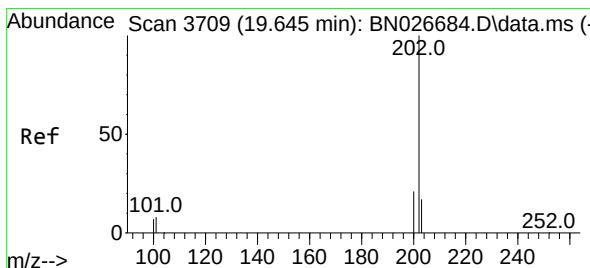
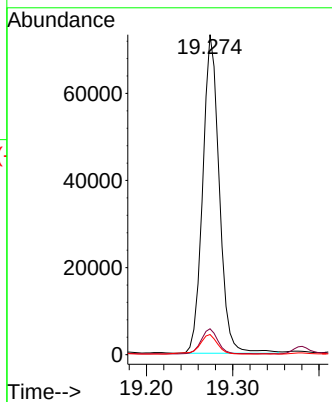
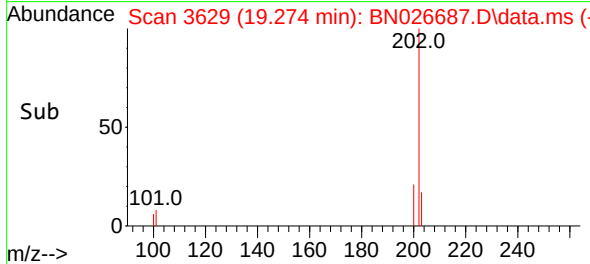
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



Tgt Ion:202 Resp: 97870  
Ion Ratio Lower Upper  
202 100  
101 8.1 7.0 10.4  
100 6.3 6.0 9.0

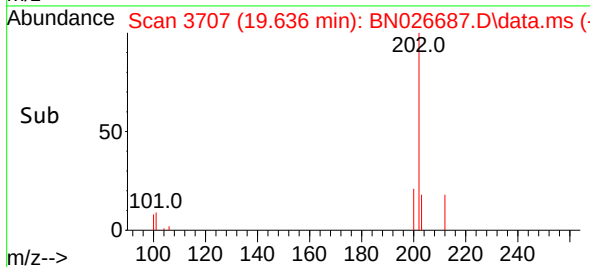
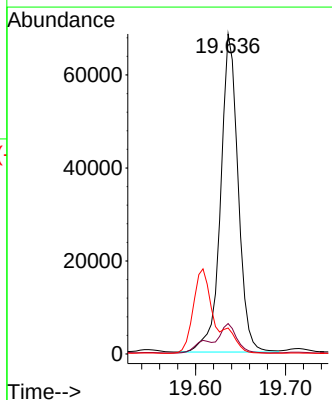
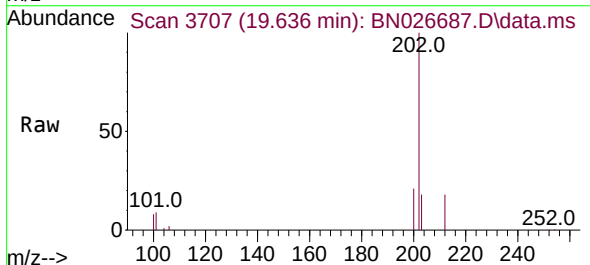
Manual Integrations  
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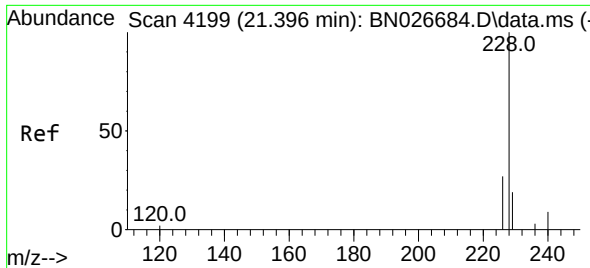
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#20  
Pyrene  
Concen: 2.030 ng/u1  
RT: 19.636 min Scan# 3707  
Delta R.T. -0.009 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

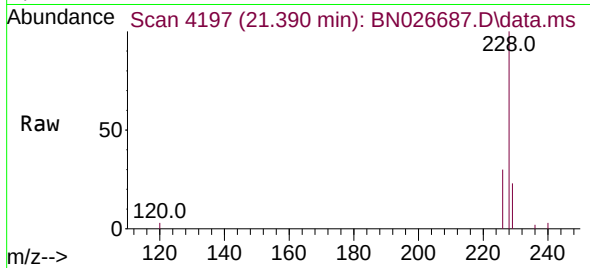
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Ion Ratio Lower Upper  
202 100  
101 9.5 8.0 12.0  
100 8.1 6.2 9.2





#21  
Benzo(a)anthracene  
Concen: 1.177 ng/ul  
RT: 21.390 min Scan# 4199  
Delta R.T. -0.012 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

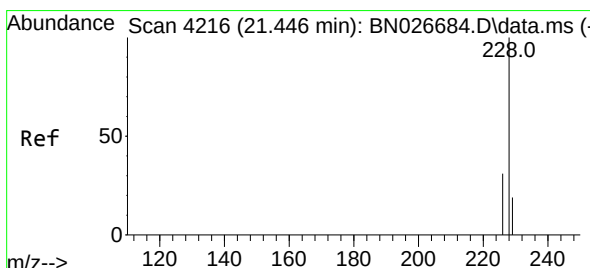
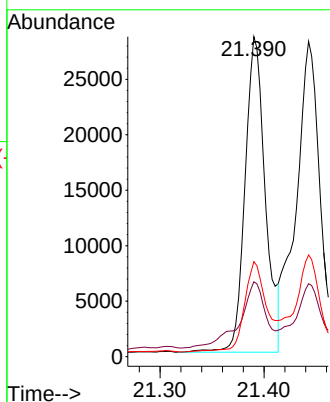
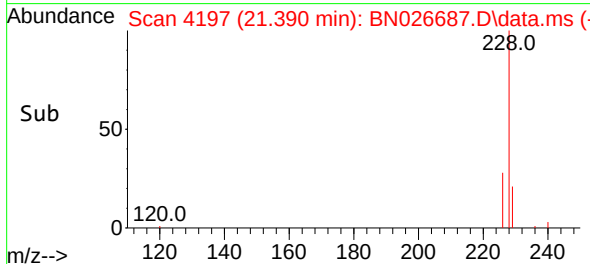
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



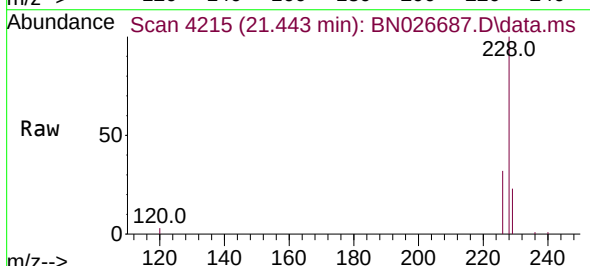
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Ion Ratio Lower Upper  
228 100  
229 23.4 16.7 25.1  
226 29.7 23.5 35.3

Manual Integrations  
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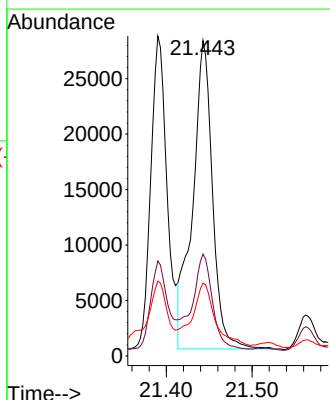
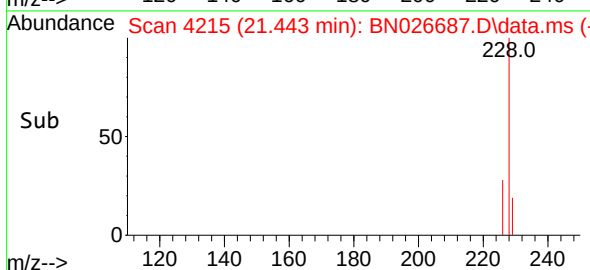
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



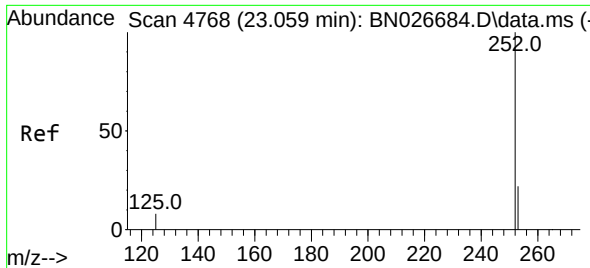
#22  
Chrysene  
Concen: 1.199 ng/ul  
RT: 21.443 min Scan# 4215  
Delta R.T. -0.012 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00



Tgt Ion:228 Resp: 44720  
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226 32.3 25.2 37.8  
229 23.1 16.4 24.6

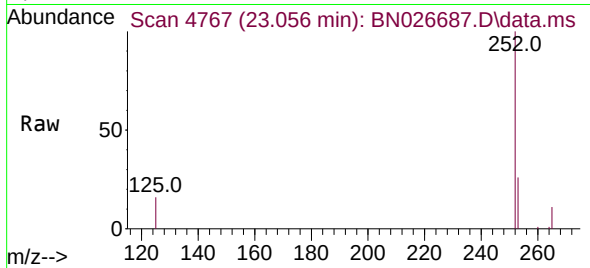






#24  
Benzo(b)fluoranthene  
Concen: 1.459 ng/ul m  
RT: 23.056 min Scan# 4767  
Delta R.T. -0.012 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

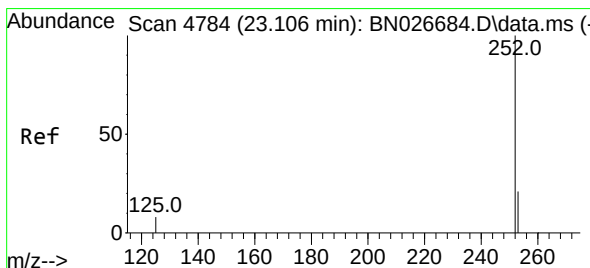
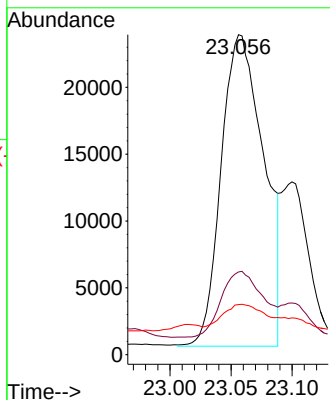
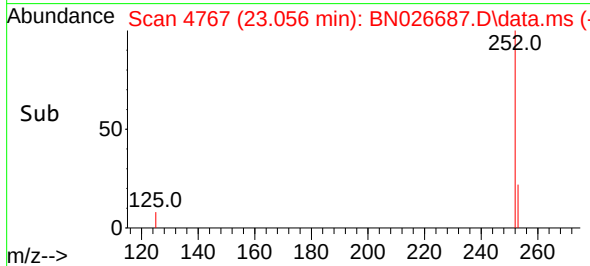
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



Tgt Ion:252 Resp: 5653  
Ion Ratio Lower Upper  
252 100  
253 25.8 0.0 68.6  
125 15.6 0.0 34.0

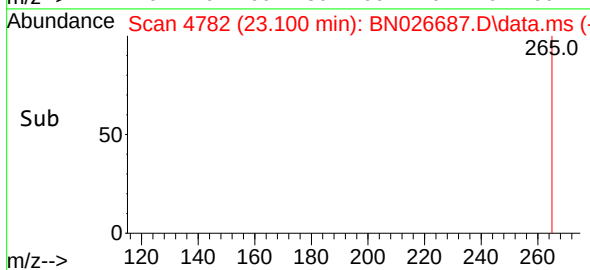
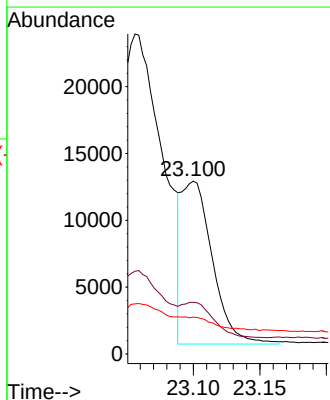
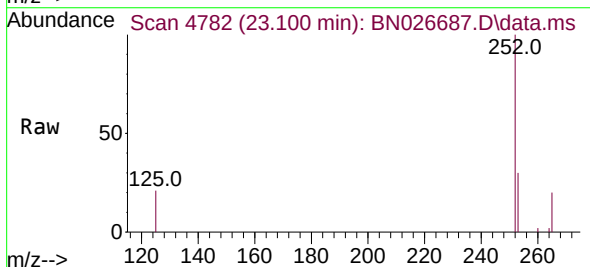
Manual Integrations  
APPROVED

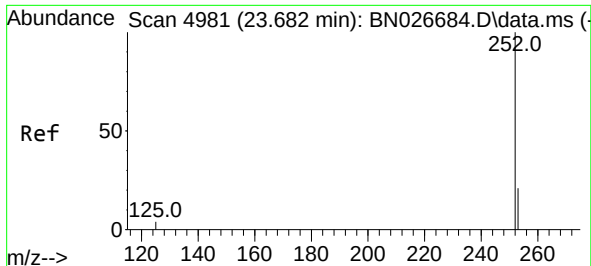
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.483 ng/ul m  
RT: 23.100 min Scan# 4782  
Delta R.T. -0.015 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

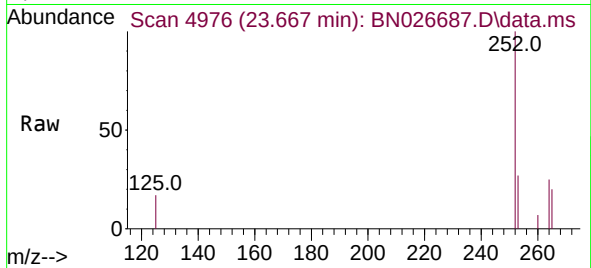
Tgt Ion:252 Resp: 19632  
Ion Ratio Lower Upper  
252 100  
253 29.9 27.2 40.8  
125 21.3 13.4 20.2#





#26  
Benzo(a)pyrene  
Concen: 0.998 ng/ul  
RT: 23.667 min Scan# 4981  
Delta R.T. -0.018 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

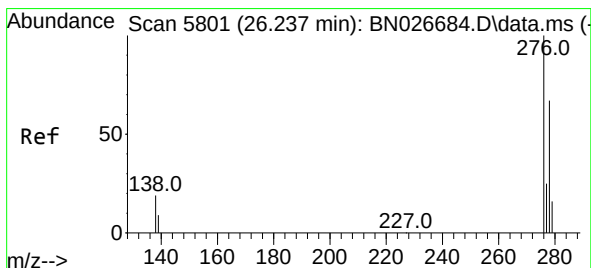
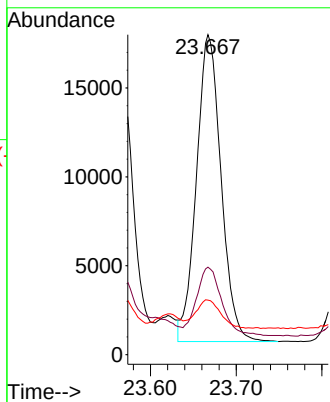
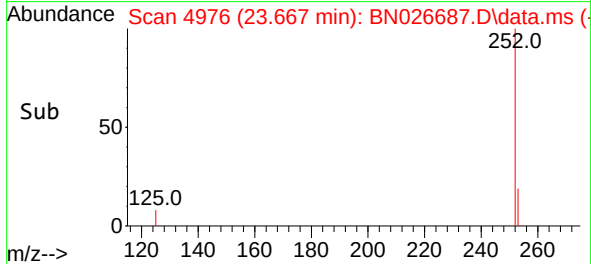
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



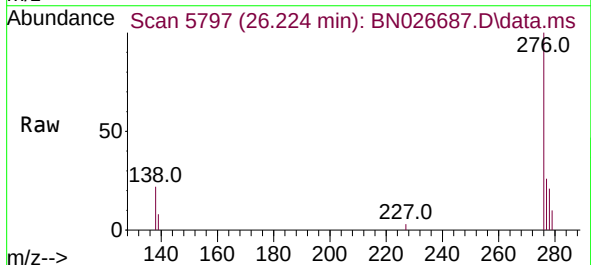
Tgt Ion:252 Resp: 3441  
Ion Ratio Lower Upper  
252 100  
253 27.4 32.6 49.0  
125 17.0 19.3 28.9

Manual Integrations  
APPROVED

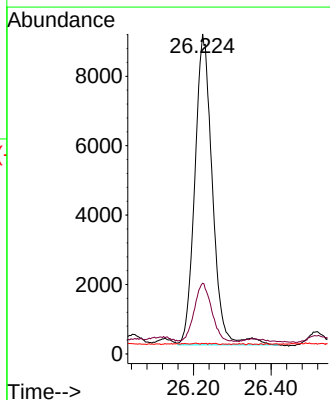
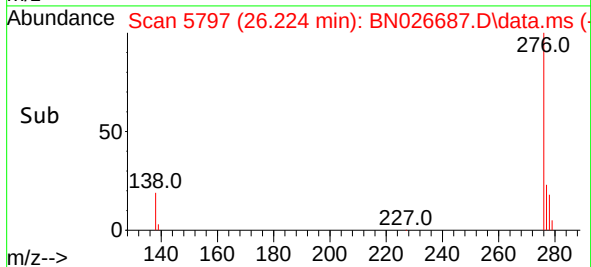
Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023

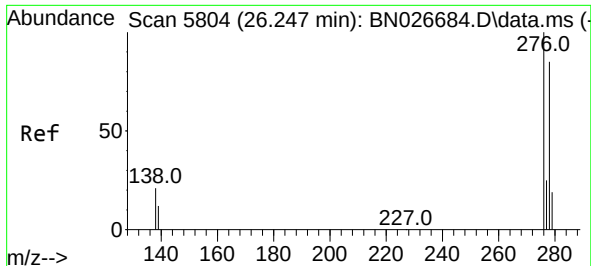


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.622 ng/ul  
RT: 26.224 min Scan# 5797  
Delta R.T. -0.027 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00



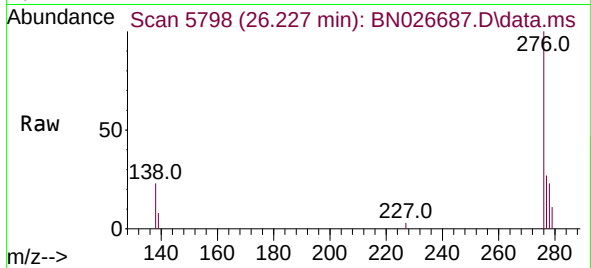
Tgt Ion:276 Resp: 28106  
Ion Ratio Lower Upper  
276 100  
138 18.6 22.2 33.4  
227 0.1 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.190 ng/ul  
RT: 26.227 min Scan# 51  
Delta R.T. -0.031 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00

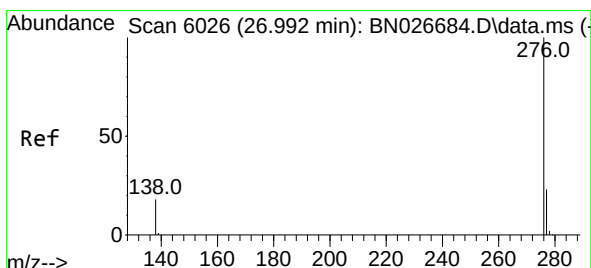
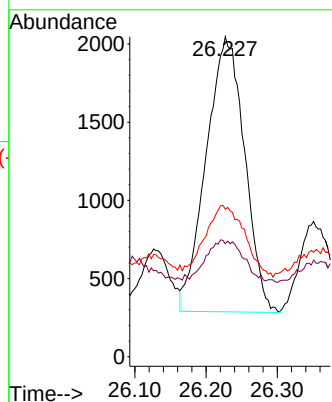
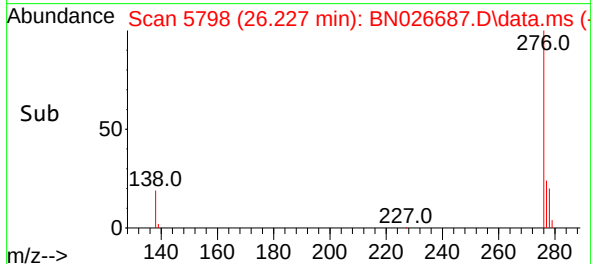
Instrument :  
BNA\_N  
ClientSampleId :  
A46R3



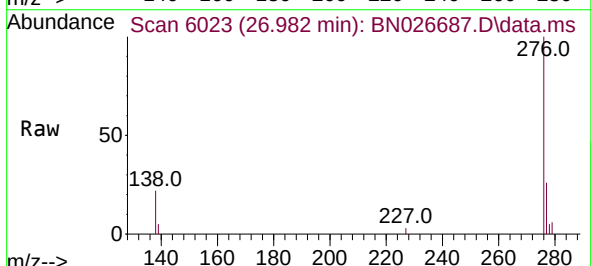
Tgt Ion:278 Resp: 6594  
Ion Ratio Lower Upper  
278 100  
139 35.3 18.9 28.3  
279 46.1 31.3 46.9

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/24/2023  
Supervised By :mohammad ahmed 07/24/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.713 ng/ul  
RT: 26.982 min Scan# 6023  
Delta R.T. -0.021 min  
Lab File: BN026687.D  
Acq: 23 Jul 2023 22:00



Tgt Ion:276 Resp: 28460  
Ion Ratio Lower Upper  
276 100  
138 22.0 22.6 34.0  
277 26.0 21.8 32.8

