

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092823\  
 Data File : BN027919.D  
 Acq On : 28 Sep 2023 11:03  
 Operator : MA/JU  
 Sample : 04417-30  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 EZYM9

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/29/2023  
 Supervised By :mohammad ahmed 09/30/2023

Quant Time: Sep 28 12:12:00 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN091523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 27 03:52:19 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.958  | 152  | 4155     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.773 | 136  | 15214    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.601 | 164  | 10279    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.354 | 188  | 20597    | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.545 | 240  | 16643    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 24.038 | 264  | 13975    | 0.400 | ng/ul  | # 0.03   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.330  | 96   | 10847    | 2.073 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.357 | 152  | 3778     | 0.164 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.380 | 212  | 8284     | 0.163 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.828 | 128  | 9425     | 0.217 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.429 | 142  | 6636     | 0.241 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.649 | 142  | 3544     | 0.125 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.328 | 152  | 5348     | 0.119 | ng/ul# | 64       |
| 11) Acenaphthene            | 14.661 | 153  | 3074     | 0.079 | ng/ul  | 91       |
| 12) Fluorene                | 15.651 | 166  | 2786     | 0.061 | ng/ul# | 50       |
| 15) Phenanthrene            | 17.396 | 178  | 41060    | 0.634 | ng/ul# | 78       |
| 16) Anthracene              | 17.489 | 178  | 18377    | 0.339 | ng/ul# | 55       |
| 19) Fluoranthene            | 19.413 | 202  | 62539    | 0.929 | ng/ul# | 94       |
| 20) Pyrene                  | 19.780 | 202  | 93738m   | 1.352 | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.527 | 228  | 31867    | 0.495 | ng/ul# | 34       |
| 22) Chrysene                | 21.583 | 228  | 67062m   | 1.008 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.261 | 252  | 68669    | 1.102 | ng/ul# | 1        |
| 25) Benzo(k)fluoranthene    | 23.310 | 252  | 38347    | 0.635 | ng/ul# | 1        |
| 26) Benzo(a)pyrene          | 23.921 | 252  | 56682    | 1.131 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.640 | 276  | 41633    | 0.649 | ng/ul# | 87       |
| 28) Dibenzo(a,h)anthracene  | 26.640 | 278  | 11339    | 0.219 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.458 | 276  | 61999    | 1.137 | ng/ul# | 75       |
| -----                       |        |      |          |       |        |          |

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

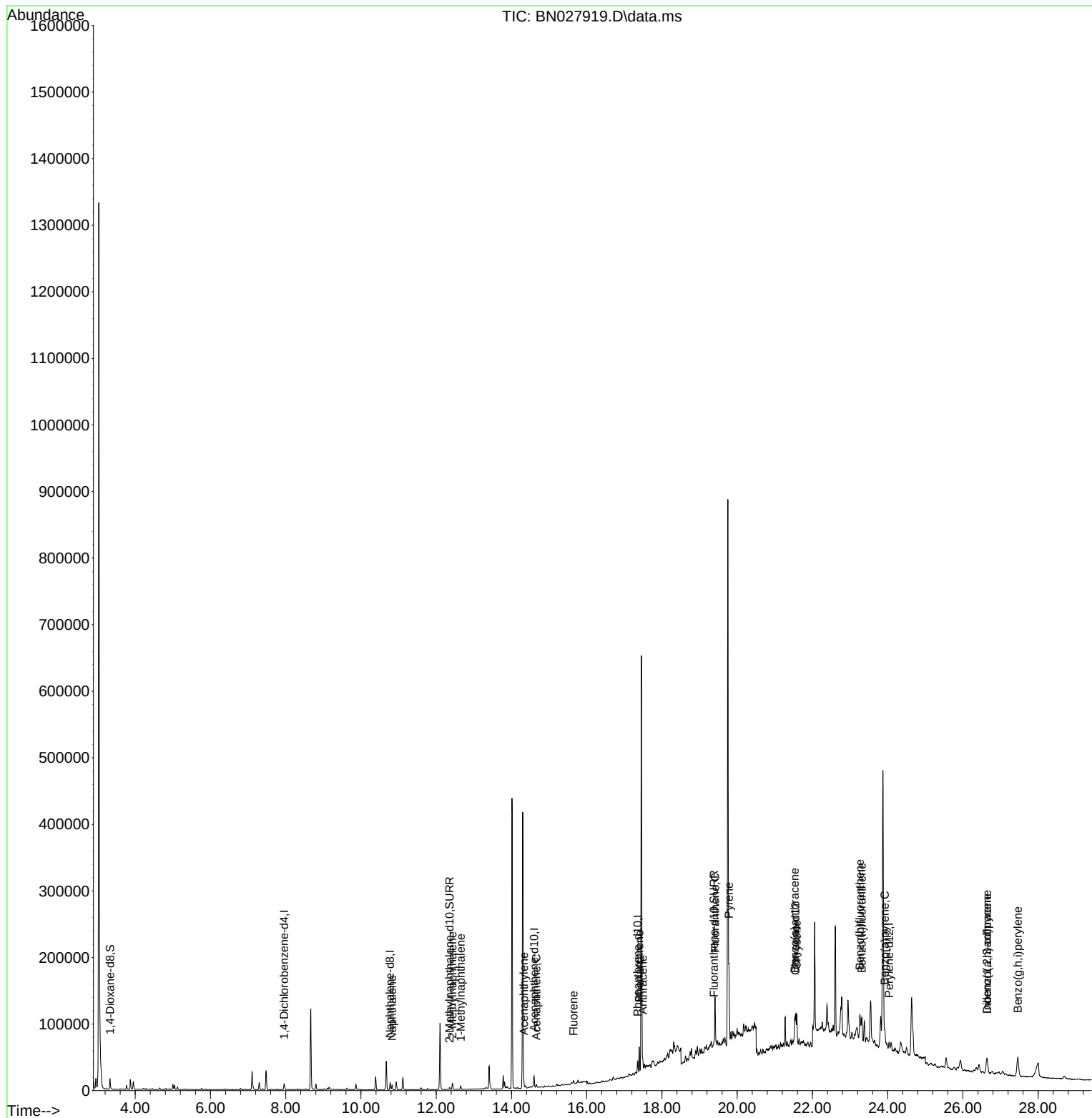
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092823\  
Data File : BN027919.D  
Acq On : 28 Sep 2023 11:03  
Operator : MA/JU  
Sample : 04417-30  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

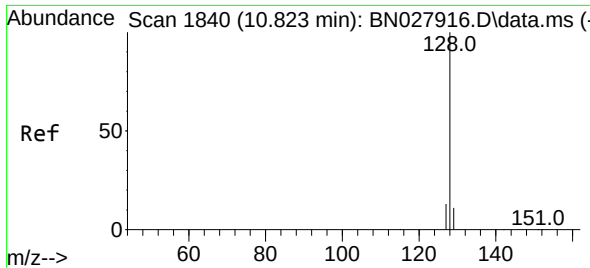
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9

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Supervised By :mohammad ahmed 09/30/2023

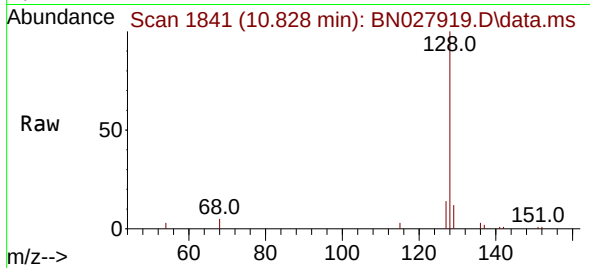
Quant Time: Sep 28 12:12:00 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN091523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 27 03:52:19 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.217 ng/ul  
RT: 10.828 min Scan# 1841  
Delta R.T. -0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

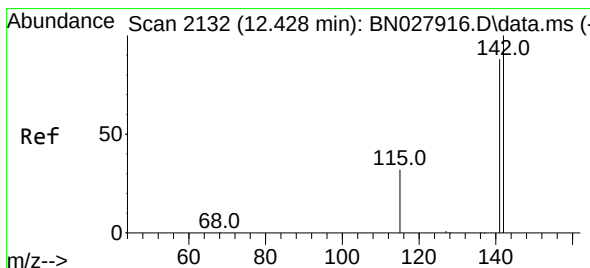
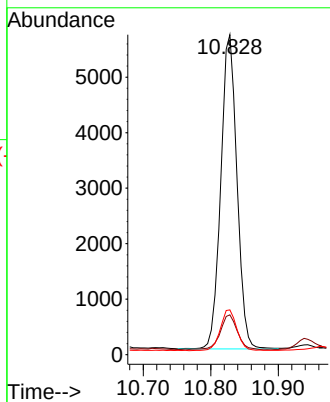
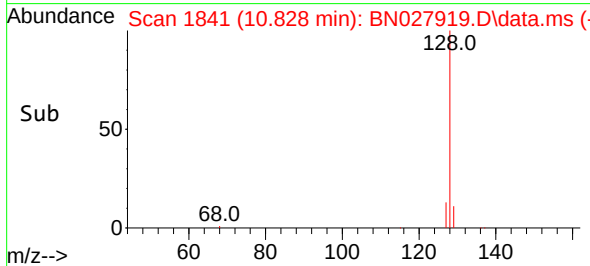
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



Tgt Ion:128 Resp: 9425  
Ion Ratio Lower Upper  
128 100  
129 12.5 9.3 13.9  
127 14.0 10.7 16.1

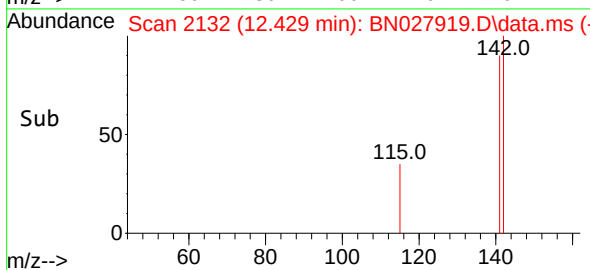
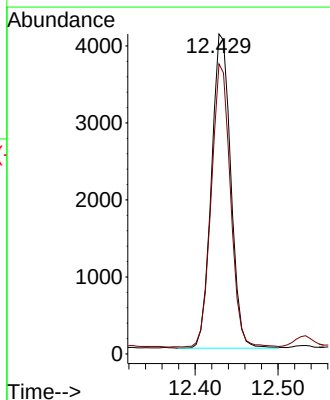
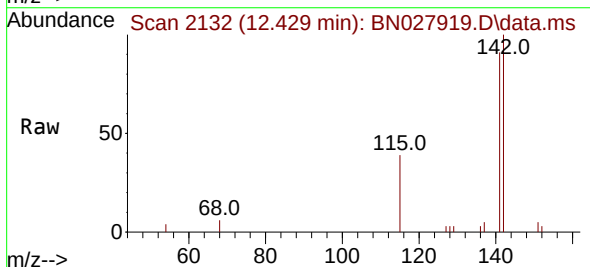
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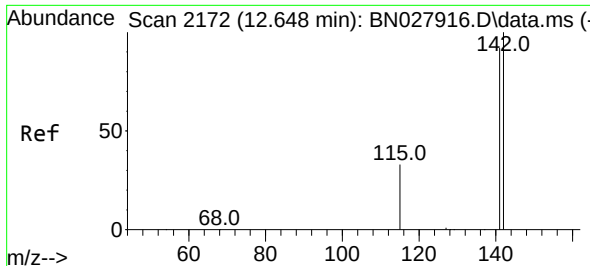
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023



#7  
2-Methylnaphthalene  
Concen: 0.241 ng/ul  
RT: 12.429 min Scan# 2132  
Delta R.T. -0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

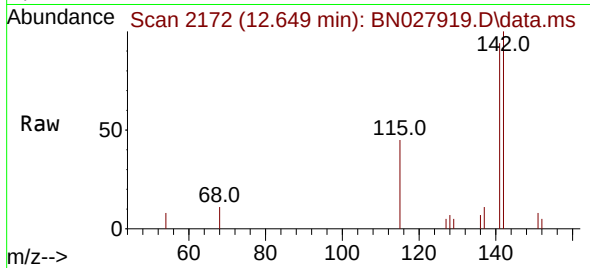
Tgt Ion:142 Resp: 6636  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.1 106.7





#8  
1-Methylnaphthalene  
Concen: 0.125 ng/ul  
RT: 12.649 min Scan# 2172  
Delta R.T. -0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

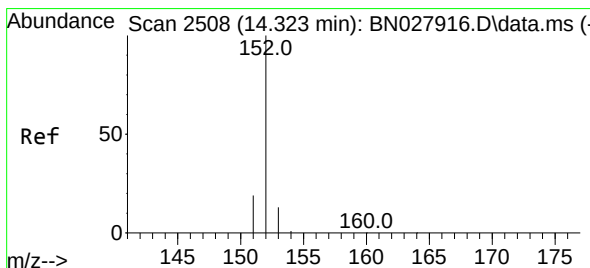
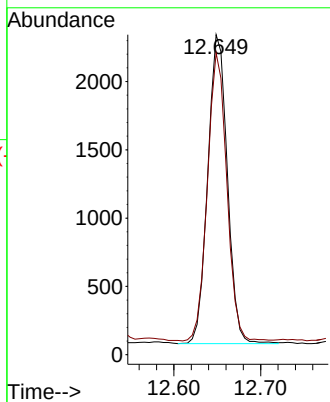
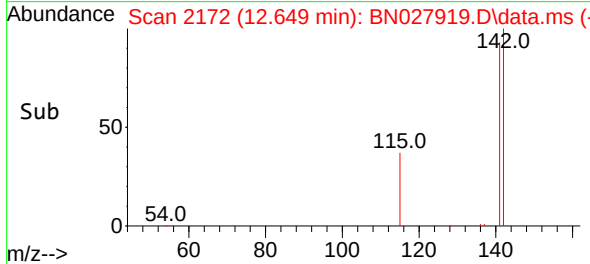
Instrument :  
BNA\_N  
ClientSampleId :  
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Tgt Ion:142 Resp: 3544  
Ion Ratio Lower Upper  
142 100  
141 92.2 72.8 109.2

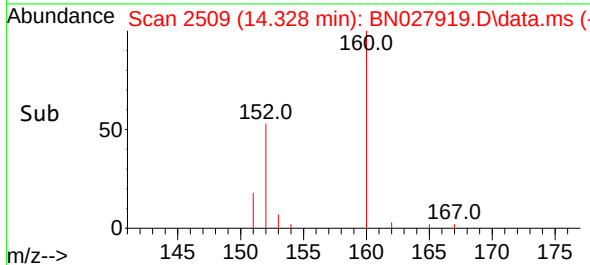
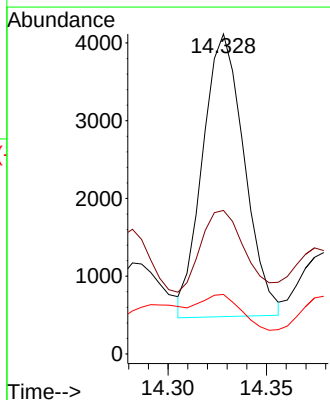
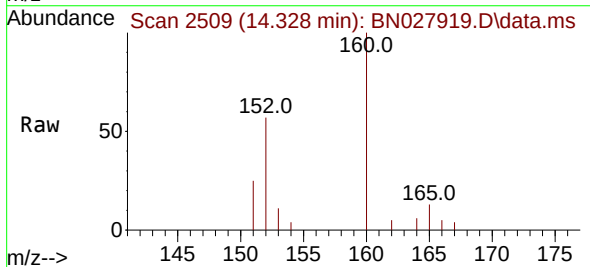
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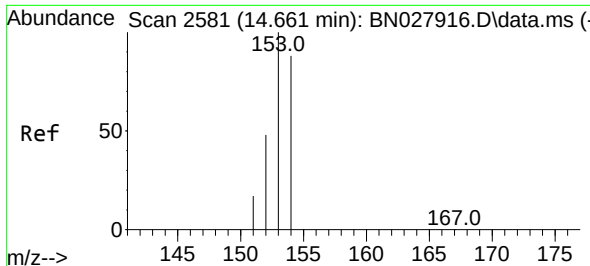
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023



#10  
Acenaphthylene  
Concen: 0.119 ng/ul  
RT: 14.328 min Scan# 2509  
Delta R.T. -0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

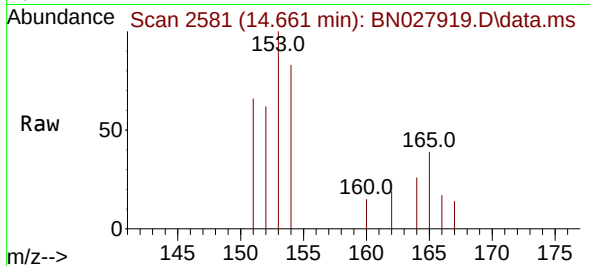
Tgt Ion:152 Resp: 5348  
Ion Ratio Lower Upper  
152 100  
151 44.8 16.6 25.0#  
153 18.6 11.0 16.6#





#11  
Acenaphthene  
Concen: 0.079 ng/ul  
RT: 14.661 min Scan# 2581  
Delta R.T. -0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

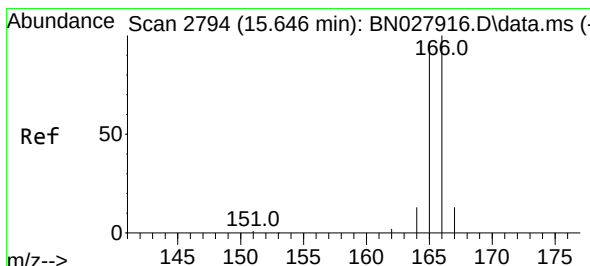
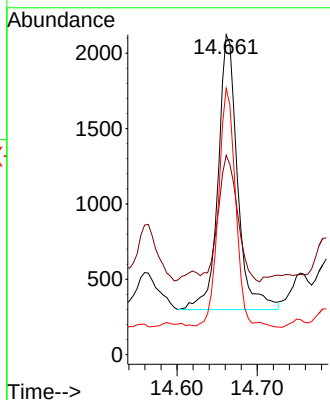
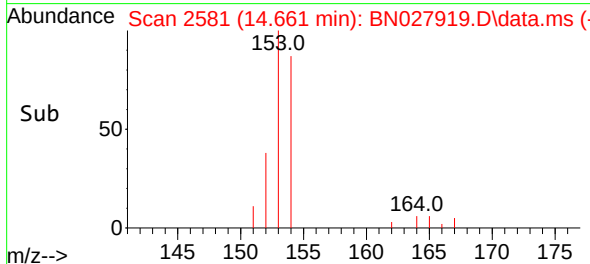
Instrument :  
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ClientSampleId :  
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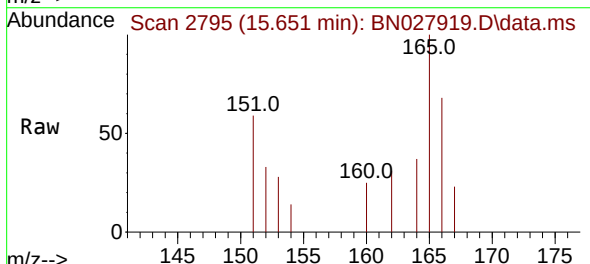
Tgt Ion:153 Resp: 3074  
Ion Ratio Lower Upper  
153 100  
152 62.3 41.7 62.5  
154 83.2 70.3 105.5

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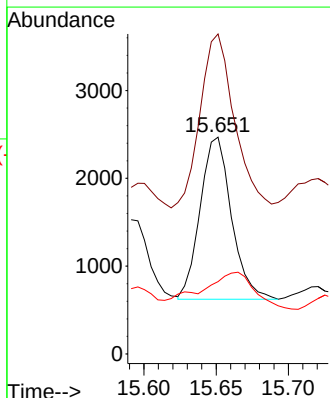
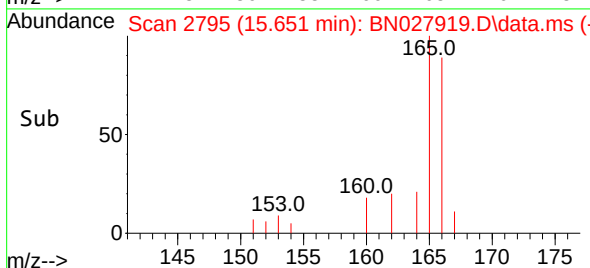
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023

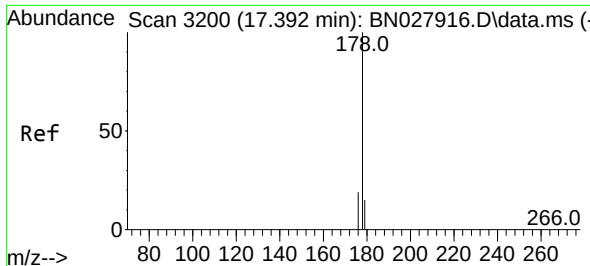


#12  
Fluorene  
Concen: 0.061 ng/ul  
RT: 15.651 min Scan# 2795  
Delta R.T. 0.000 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



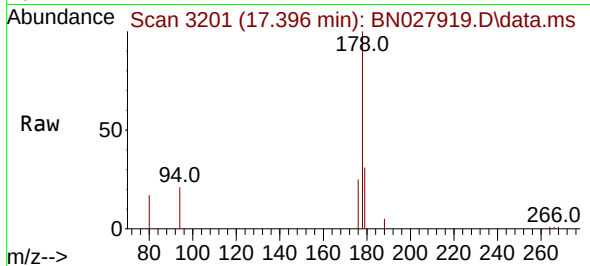
Tgt Ion:166 Resp: 2786  
Ion Ratio Lower Upper  
166 100  
165 147.6 78.0 117.0#  
167 33.3 11.4 17.2#





#15  
Phenanthrene  
Concen: 0.634 ng/ul  
RT: 17.396 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

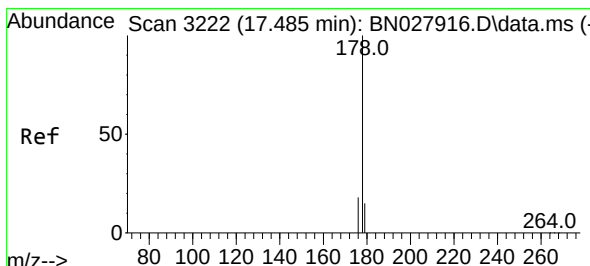
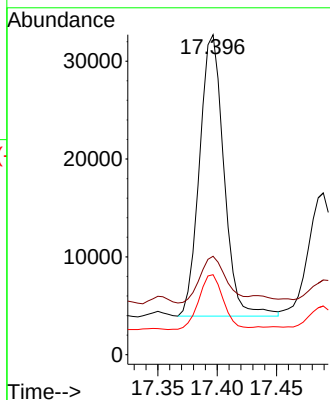
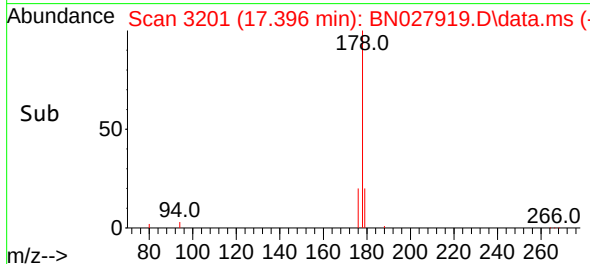
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



Tgt Ion:178 Resp: 41060  
Ion Ratio Lower Upper  
178 100  
179 30.8 12.4 18.6  
176 25.0 16.0 24.0

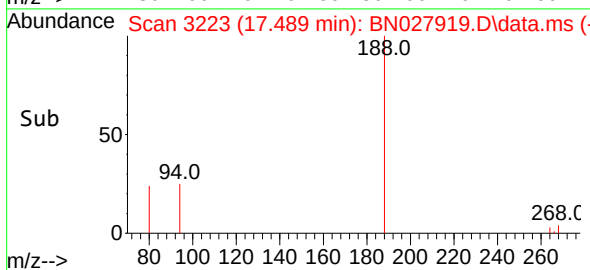
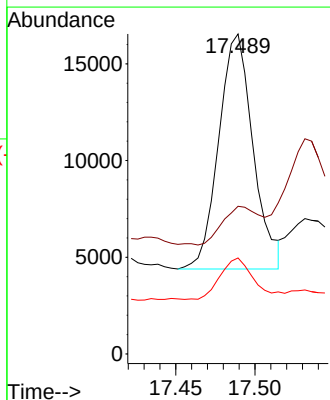
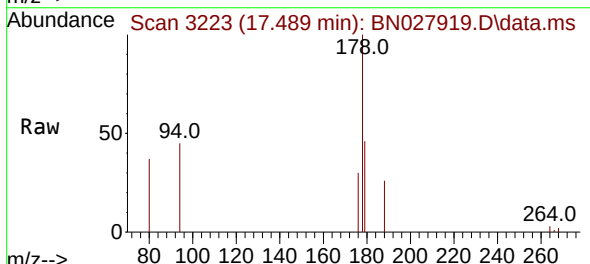
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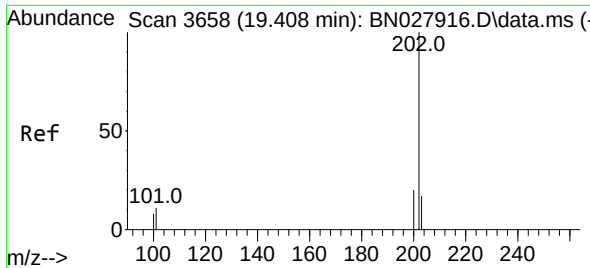
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023



#16  
Anthracene  
Concen: 0.339 ng/ul  
RT: 17.489 min Scan# 3223  
Delta R.T. 0.000 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

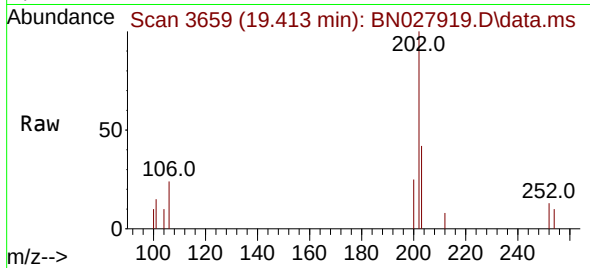
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Ion Ratio Lower Upper  
178 100  
179 46.2 12.6 19.0#  
176 30.0 15.5 23.3#





#19  
Fluoranthene  
Concen: 0.929 ng/ul  
RT: 19.413 min Scan# 3659  
Delta R.T. 0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

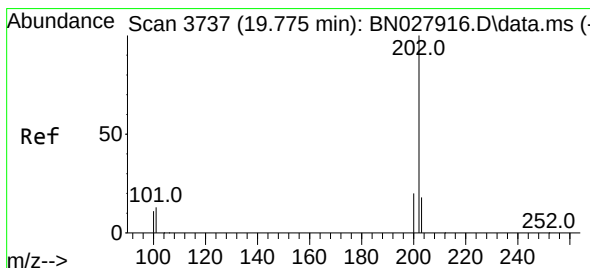
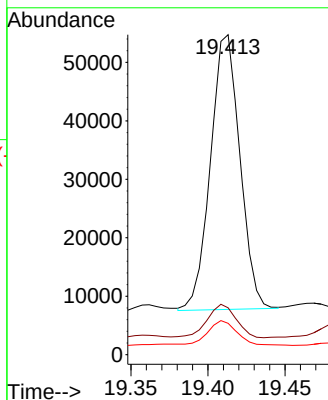
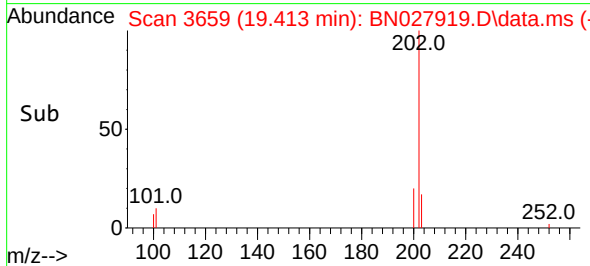
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



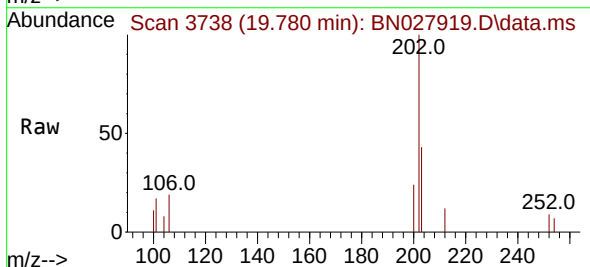
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Ion Ratio Lower Upper  
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101 14.6 9.3 13.9  
100 9.8 7.0 10.4

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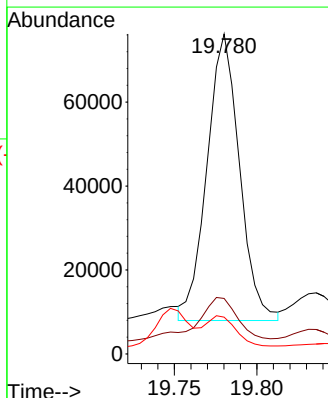
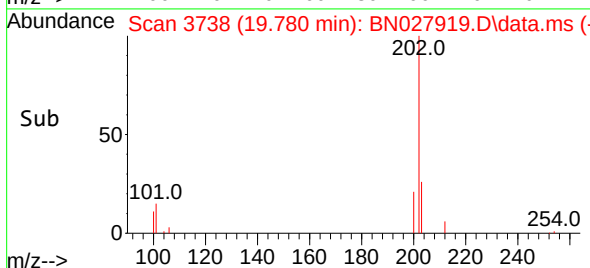
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023

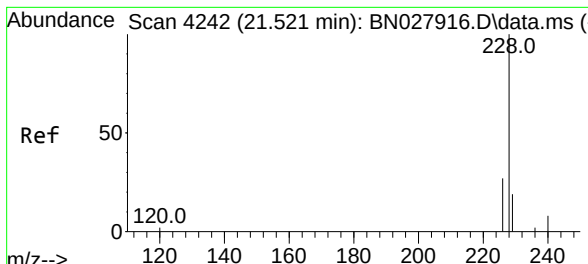


#20  
Pyrene  
Concen: 1.352 ng/ul m  
RT: 19.780 min Scan# 3738  
Delta R.T. 0.005 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



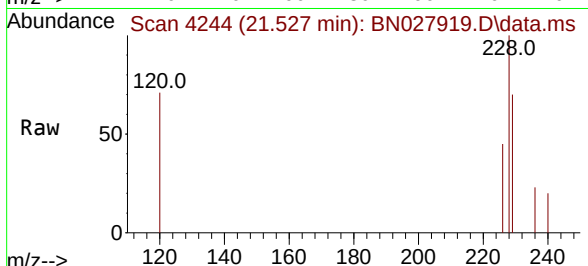
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Ion Ratio Lower Upper  
202 100  
101 17.3 11.4 17.0  
100 11.5 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 0.495 ng/ul  
RT: 21.527 min Scan# 4242  
Delta R.T. 0.009 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

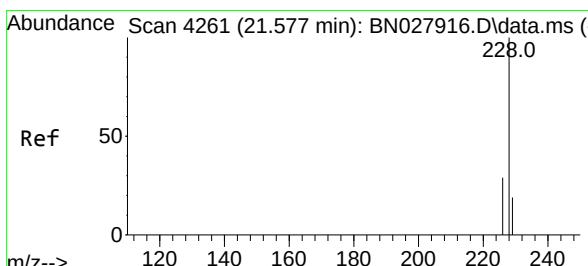
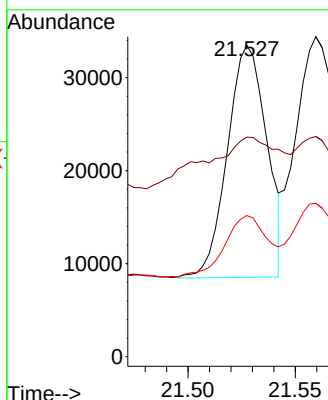
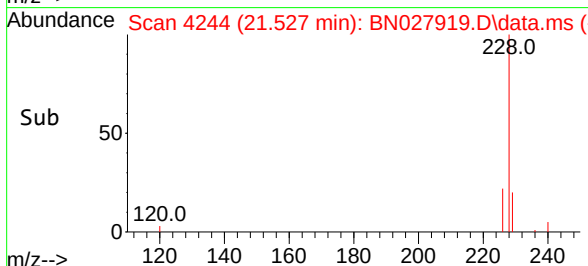
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



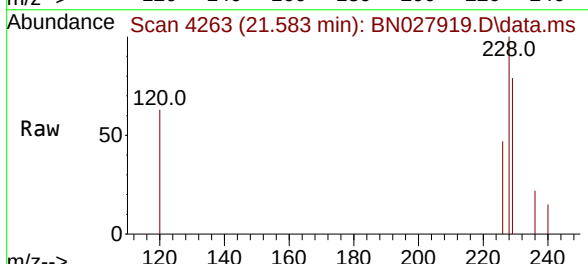
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228 100  
229 70.5 15.8 23.8#  
226 45.3 22.0 33.0#

Manual Integrations  
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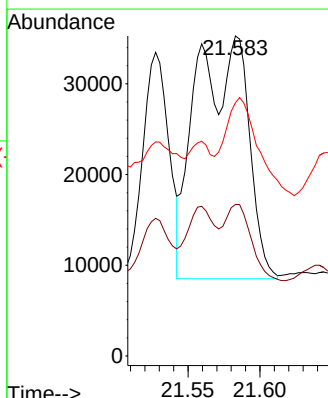
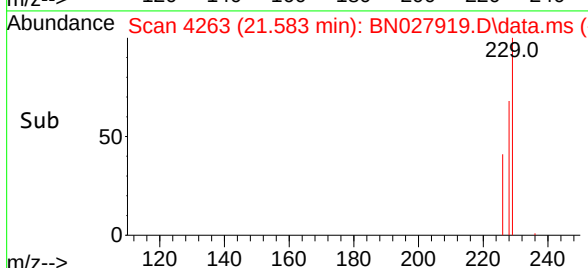
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023



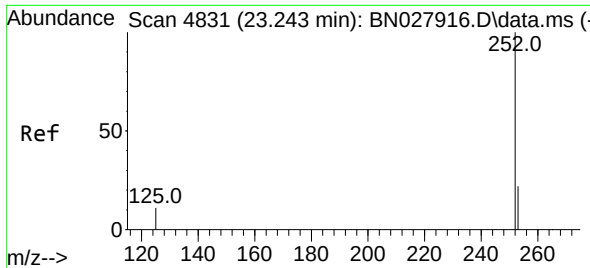
#22  
Chrysene  
Concen: 1.008 ng/ul m  
RT: 21.583 min Scan# 4263  
Delta R.T. 0.009 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



Tgt Ion:228 Resp: 67062  
Ion Ratio Lower Upper  
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229 79.1 16.0 24.0#

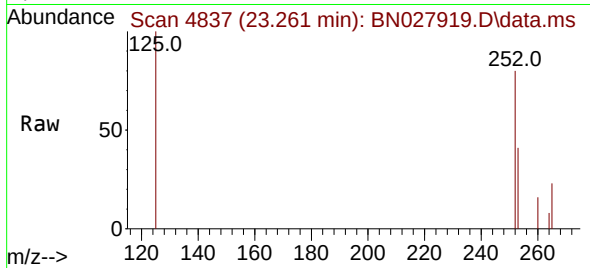






#24  
Benzo(b)fluoranthene  
Concen: 1.102 ng/u1  
RT: 23.261 min Scan# 4837  
Delta R.T. 0.020 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

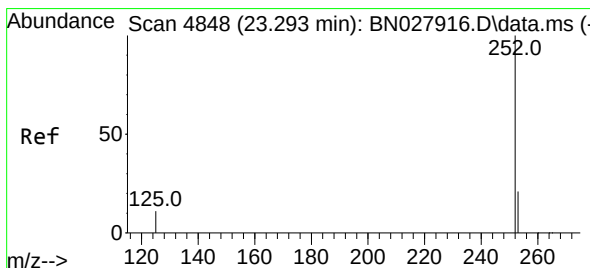
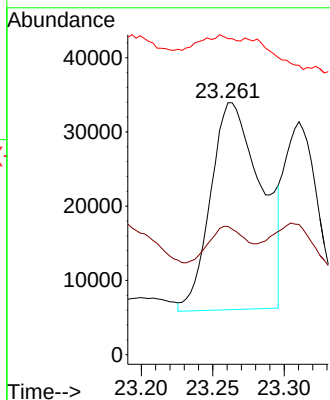
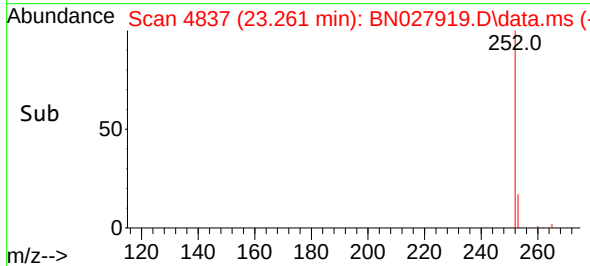
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



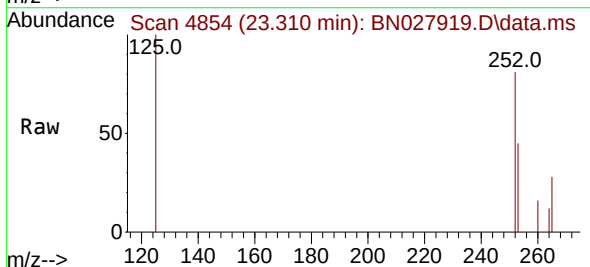
Tgt Ion:252 Resp: 68669  
Ion Ratio Lower Upper  
252 100  
253 50.9 0.0 50.2  
125 125.4 0.0 31.4

Manual Integrations  
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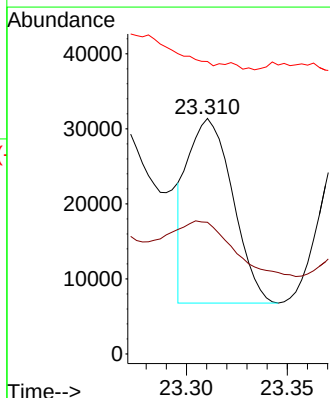
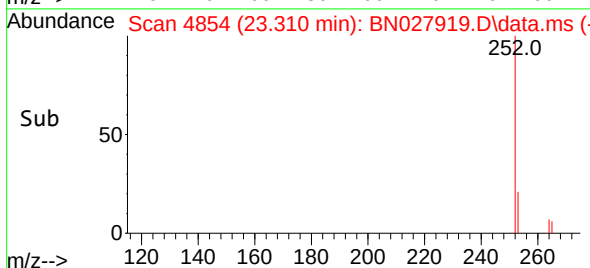
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023

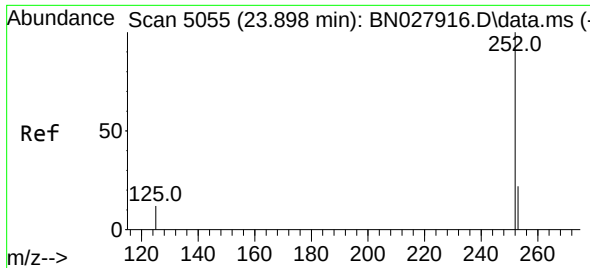


#25  
Benzo(k)fluoranthene  
Concen: 0.635 ng/u1  
RT: 23.310 min Scan# 4854  
Delta R.T. 0.018 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



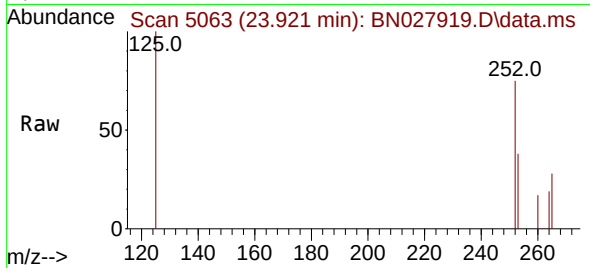
Tgt Ion:252 Resp: 38347  
Ion Ratio Lower Upper  
252 100  
253 55.9 19.9 29.9#  
125 124.2 12.6 19.0#





#26  
Benzo(a)pyrene  
Concen: 1.131 ng/ul  
RT: 23.921 min Scan# 5063  
Delta R.T. 0.026 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

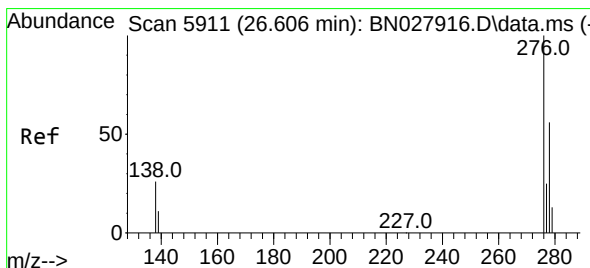
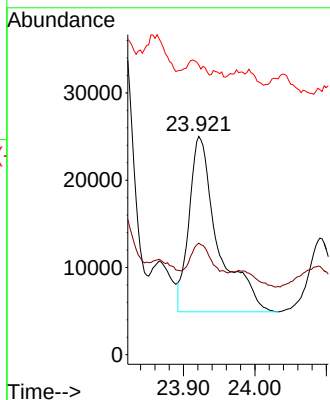
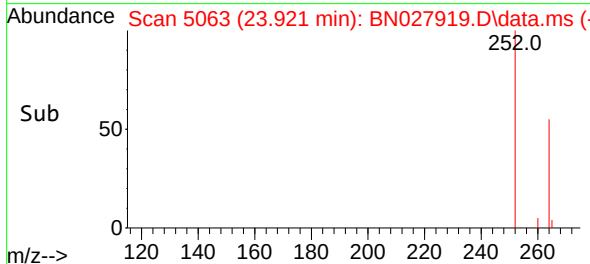
Instrument :  
BNA\_N  
ClientSampleId :  
EZYM9



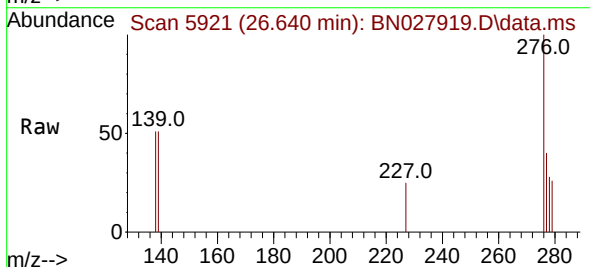
Tgt Ion:252 Resp: 5668  
Ion Ratio Lower Upper  
252 100  
253 51.1 21.9 32.9  
125 132.7 15.5 23.3

Manual Integrations  
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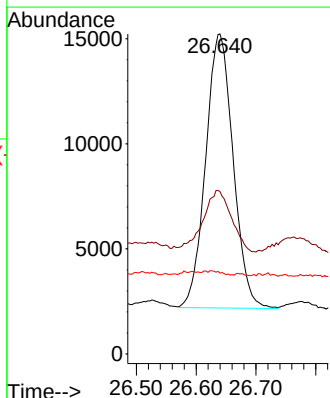
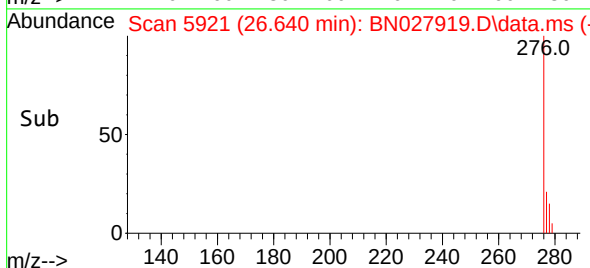
Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023

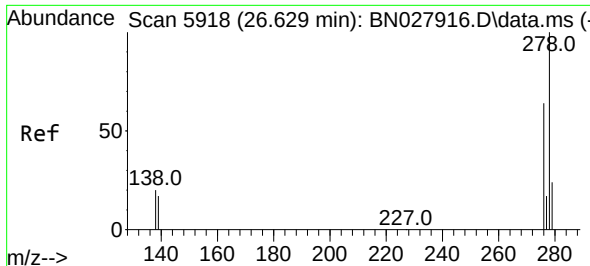


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.649 ng/ul  
RT: 26.640 min Scan# 5921  
Delta R.T. 0.041 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



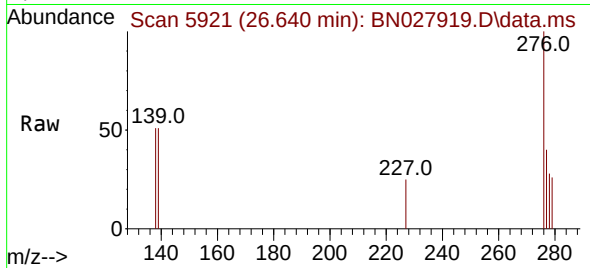
Tgt Ion:276 Resp: 41633  
Ion Ratio Lower Upper  
276 100  
138 23.5 24.3 36.5  
227 0.0 0.0 0.0





#28  
Dibenzo(a,h)anthracene  
Concen: 0.219 ng/ul  
RT: 26.640 min Scan# 5918  
Delta R.T. 0.017 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03

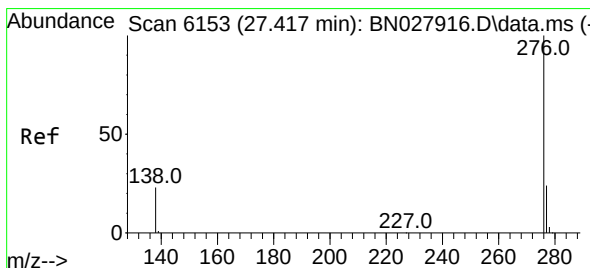
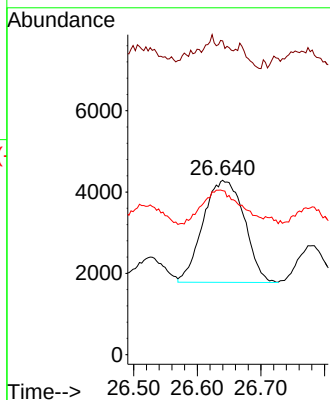
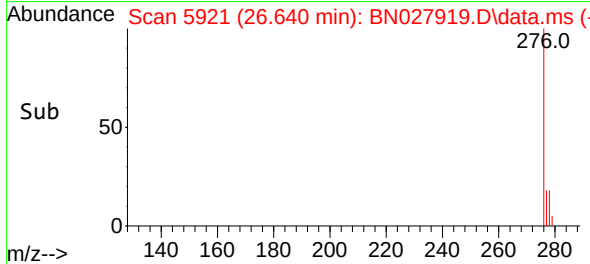
Instrument :  
BNA\_N  
ClientSampleId :  
EZY9



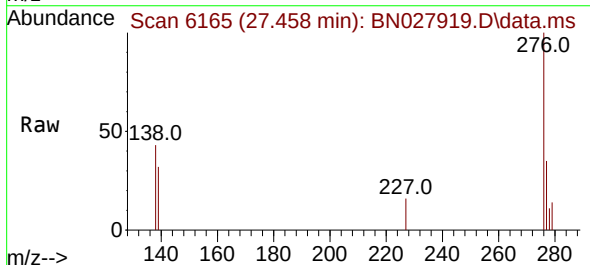
Tgt Ion:278 Resp: 11339  
Ion Ratio Lower Upper  
278 100  
139 179.9 17.2 25.8#  
279 94.0 21.4 32.0#

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/29/2023  
Supervised By :mohammad ahmed 09/30/2023



#29  
Benzo(g,h,i)perylene  
Concen: 1.137 ng/ul  
RT: 27.458 min Scan# 6165  
Delta R.T. 0.047 min  
Lab File: BN027919.D  
Acq: 28 Sep 2023 11:03



Tgt Ion:276 Resp: 61999  
Ion Ratio Lower Upper  
276 100  
138 42.6 21.7 32.5#  
277 34.6 20.2 30.2#

