

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
 Data File : BM044122.D  
 Acq On : 16 Feb 2024 04:15  
 Operator : MA/JU  
 Sample : P1329-22  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 COFN0

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024

Quant Time: Feb 17 03:14:57 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 15 13:40:24 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.905  | 152  | 9589     | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.710 | 136  | 15046    | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.553 | 164  | 20788    | 0.400  | ng/ul  | # 0.00   |
| 13) Phenanthrene-d10        | 17.297 | 188  | 29302m   | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.508 | 240  | 13862m   | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.907 | 264  | 14649m   | 0.400  | ng/ul  | 0.01     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.352  | 96   | 52302    | 3.852  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.294 | 152  | 27102    | 1.286  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.332 | 212  | 21515m   | 0.520  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.754 | 128  | 186078   | 4.161  | ng/ul# | 76       |
| 7) 2-Methylnaphthalene      | 12.376 | 142  | 415056   | 15.048 | ng/ul  | 91       |
| 8) 1-Methylnaphthalene      | 12.596 | 142  | 378761   | 13.573 | ng/ul  | 92       |
| 10) Acenaphthylene          | 14.280 | 152  | 47015    | 0.412  | ng/ul# | 1        |
| 11) Acenaphthene            | 14.613 | 153  | 42568    | 0.514  | ng/ul# | 83       |
| 12) Fluorene                | 15.603 | 166  | 52261    | 0.560  | ng/ul# | 78       |
| 14) Pentachlorophenol       | 16.947 | 266  | 1365     | 0.130  | ng/ul  | 96       |
| 15) Phenanthrene            | 17.339 | 178  | 247742   | 2.668  | ng/ul  | 97       |
| 16) Anthracene              | 17.432 | 178  | 9385m    | 0.102  | ng/ul  |          |
| 19) Fluoranthene            | 19.364 | 202  | 1391910m | 22.025 | ng/ul  |          |
| 20) Pyrene                  | 19.727 | 202  | 795251   | 11.966 | ng/ul# | 95       |
| 21) Benzo(a)anthracene      | 21.490 | 228  | 291850m  | 4.597  | ng/ul  |          |
| 22) Chrysene                | 21.546 | 228  | 372334m  | 5.440  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.176 | 252  | 431506m  | 7.138  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.220 | 252  | 154934m  | 2.361  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.799 | 252  | 239187m  | 4.257  | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 26.386 | 276  | 175670m  | 2.455  | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 26.406 | 278  | 46450m   | 0.825  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 27.147 | 276  | 165214m  | 2.611  | ng/ul  |          |
| -----                       |        |      |          |        |        |          |

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

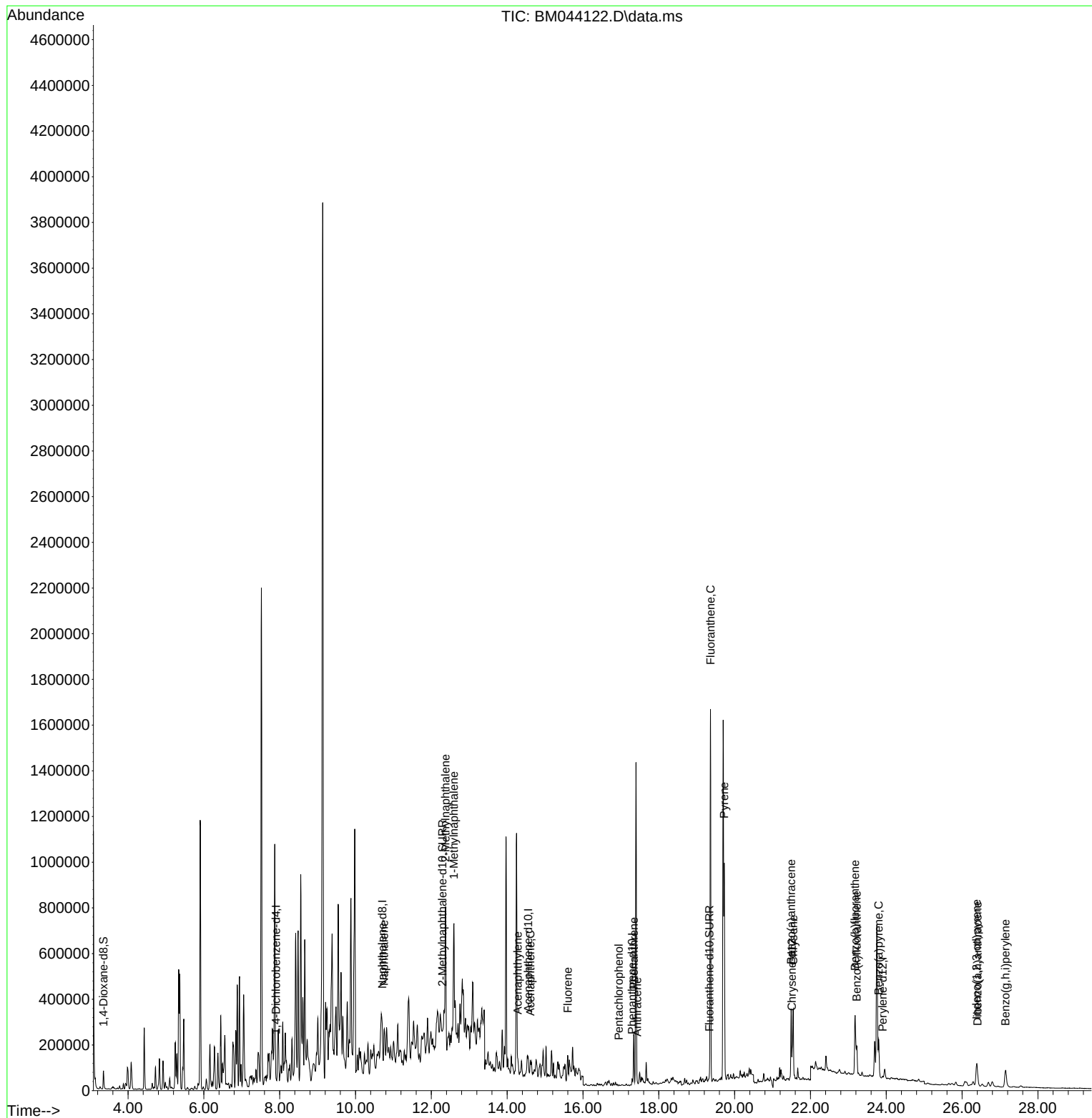
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM021524\  
Data File : BM044122.D  
Acq On : 16 Feb 2024 04:15  
Operator : MA/JU  
Sample : P1329-22  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

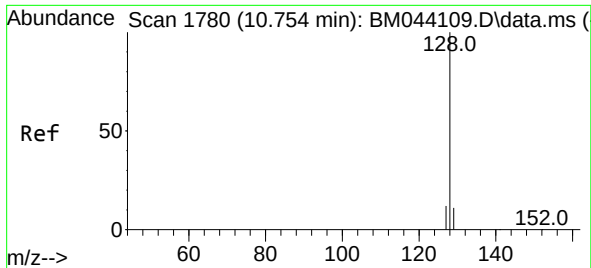
Instrument :  
BNA\_M  
ClientSampleId :  
C0FN0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024

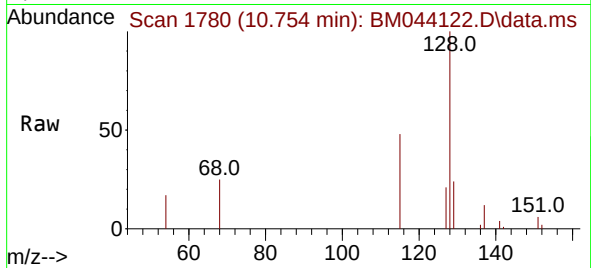
Quant Time: Feb 17 03:14:57 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM021524.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 15 13:40:24 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 4.161 ng/ul  
RT: 10.754 min Scan# 1780  
Delta R.T. 0.000 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

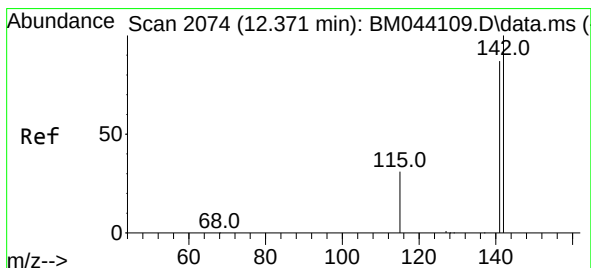
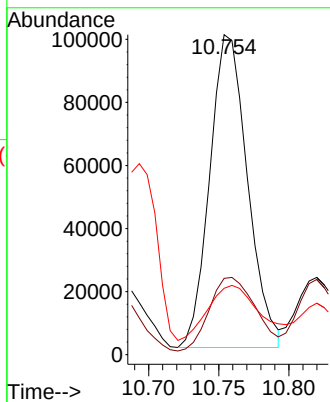
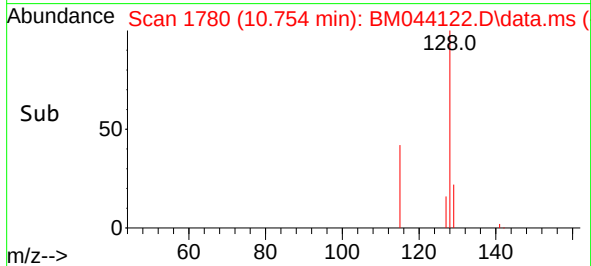
Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



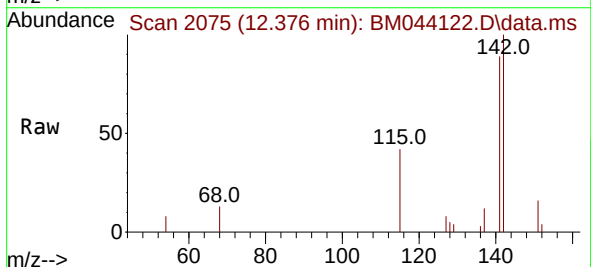
Tgt Ion:128 Resp: 186078  
Ion Ratio Lower Upper  
128 100  
129 23.9 9.5 14.3  
127 20.7 10.7 16.1

Manual Integrations  
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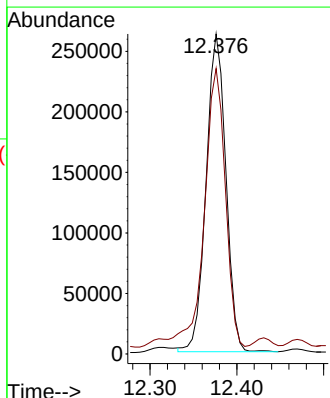
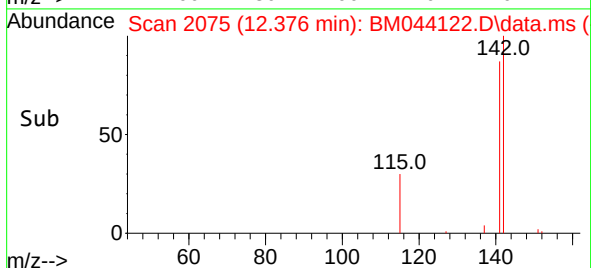
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024

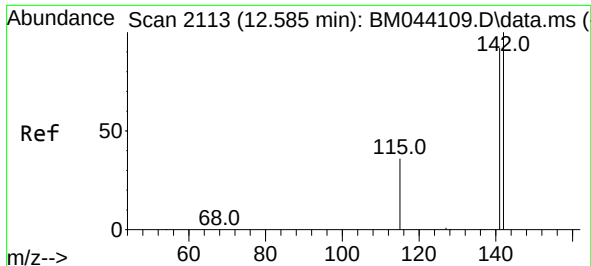


#7  
2-Methylnaphthalene  
Concen: 15.048 ng/ul  
RT: 12.376 min Scan# 2075  
Delta R.T. 0.005 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15



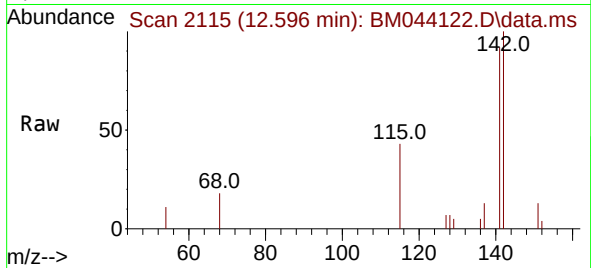
Tgt Ion:142 Resp: 415056  
Ion Ratio Lower Upper  
142 100  
141 95.4 70.0 105.0





#8  
1-Methylnaphthalene  
Concen: 13.573 ng/ul  
RT: 12.596 min Scan# 2115  
Delta R.T. 0.006 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

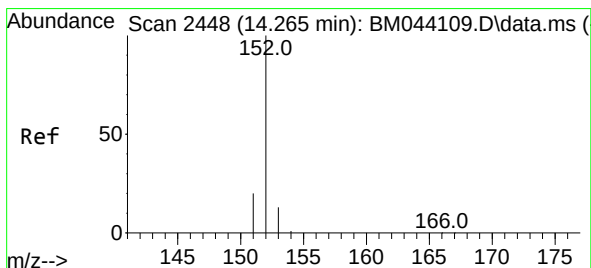
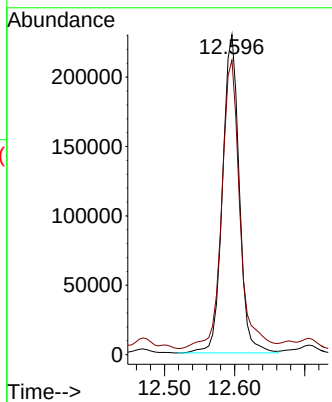
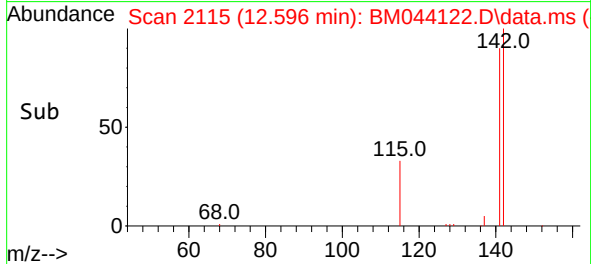
Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



Tgt Ion:142 Resp: 37876  
Ion Ratio Lower Upper  
142 100  
141 98.4 72.5 108.7

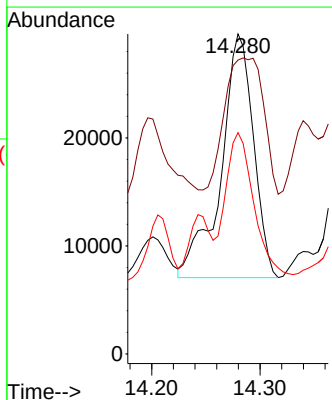
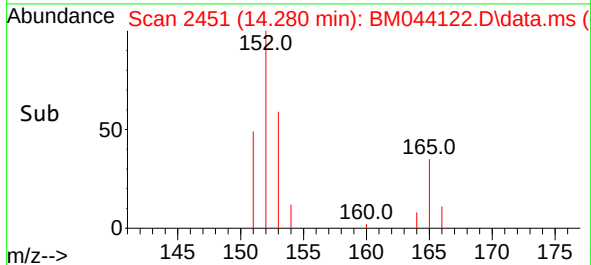
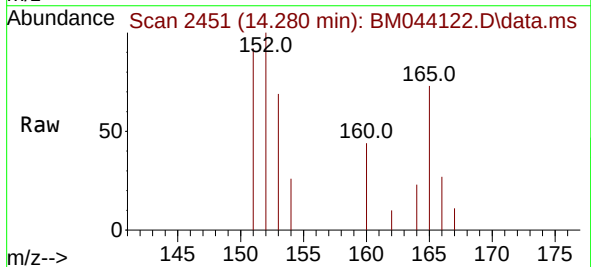
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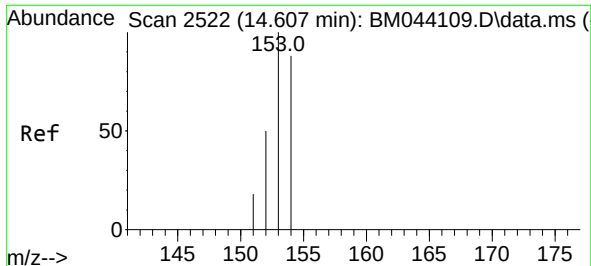
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



#10  
Acenaphthylene  
Concen: 0.412 ng/ul  
RT: 14.280 min Scan# 2451  
Delta R.T. 0.010 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

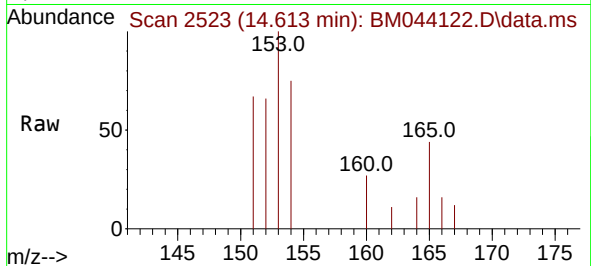
Tgt Ion:152 Resp: 47015  
Ion Ratio Lower Upper  
152 100  
151 91.9 15.5 23.3#  
153 69.2 10.8 16.2#





#11  
Acenaphthene  
Concen: 0.514 ng/ul  
RT: 14.613 min Scan# 2523  
Delta R.T. 0.005 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

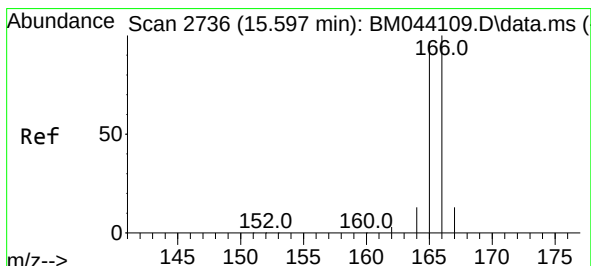
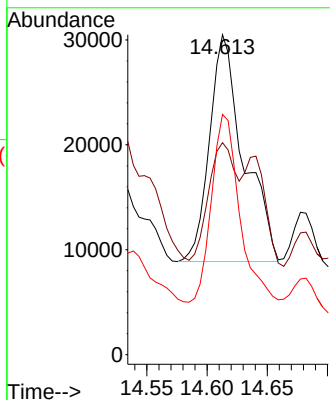
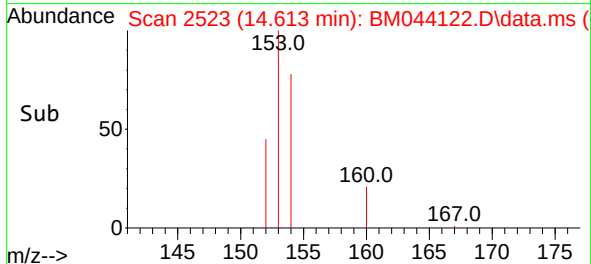
Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



Tgt Ion:153 Resp: 42568  
Ion Ratio Lower Upper  
153 100  
152 66.3 40.6 61.0  
154 75.1 70.1 105.1

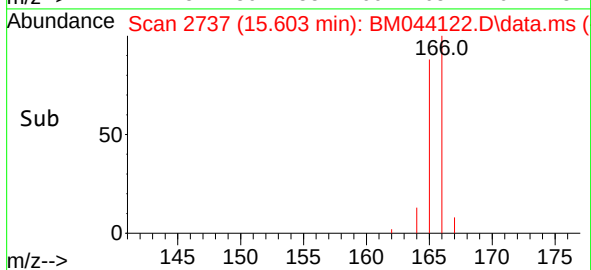
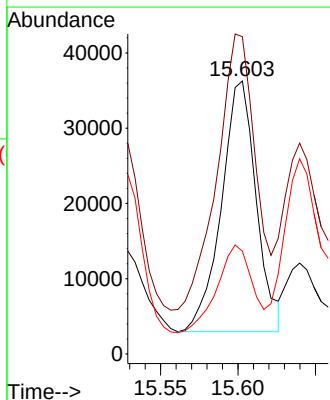
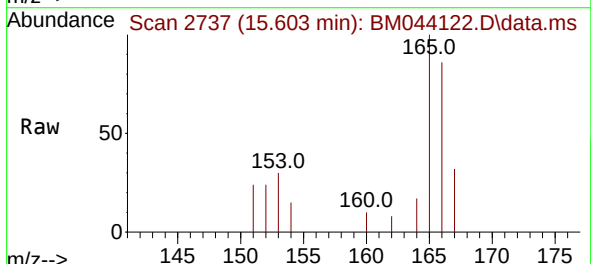
Manual Integrations  
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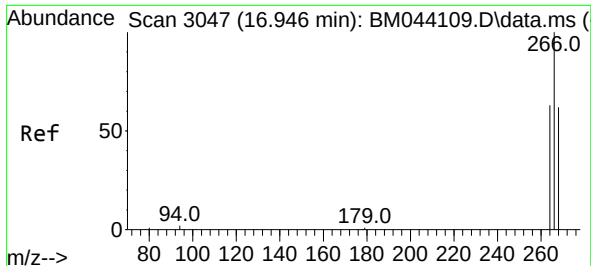
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



#12  
Fluorene  
Concen: 0.560 ng/ul  
RT: 15.603 min Scan# 2737  
Delta R.T. 0.005 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

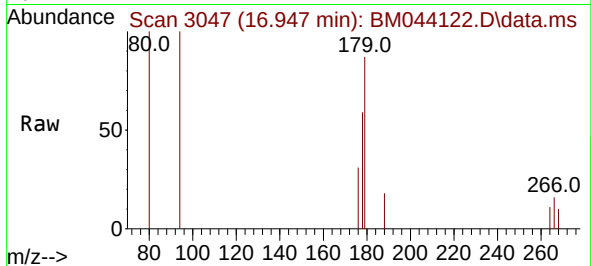
Tgt Ion:166 Resp: 52261  
Ion Ratio Lower Upper  
166 100  
165 116.3 79.8 119.6  
167 37.7 11.1 16.7#





#14  
Pentachlorophenol  
Concen: 0.130 ng/u1  
RT: 16.947 min Scan# 3047  
Delta R.T. 0.001 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

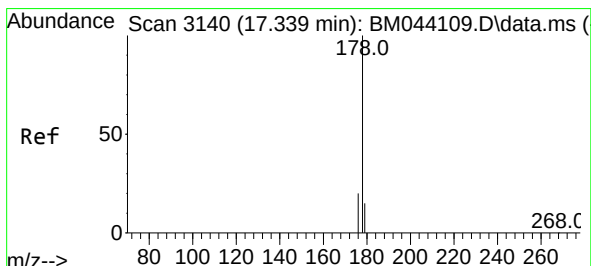
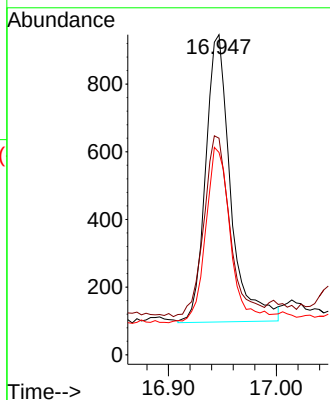
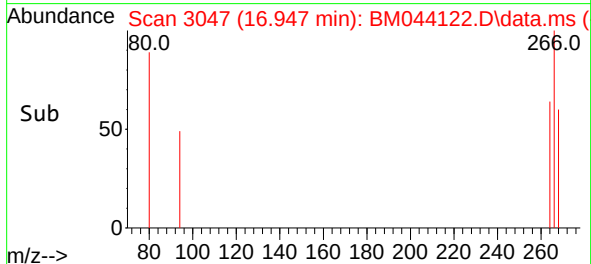
Instrument :  
BNA\_M  
ClientSampleId :  
COFNO



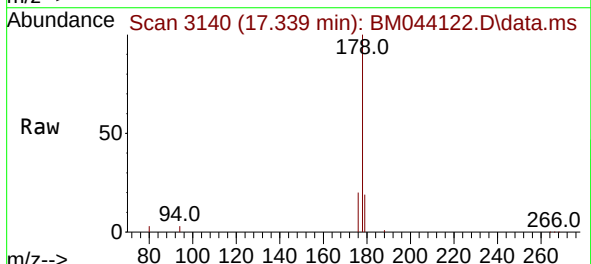
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 65.5  | 49.4  | 74.0  |
| 268     | 67.4  | 52.1  | 78.1  |

Manual Integrations  
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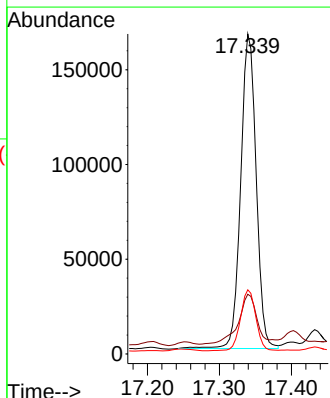
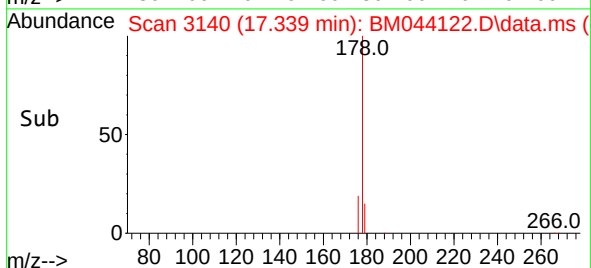
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024

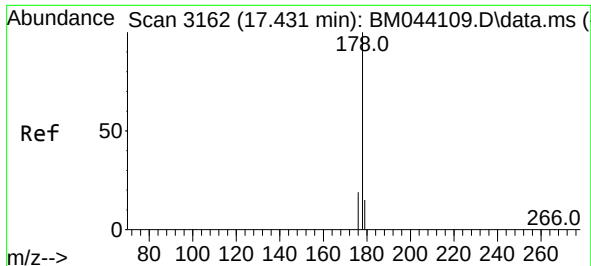


#15  
Phenanthrene  
Concen: 2.668 ng/u1  
RT: 17.339 min Scan# 3140  
Delta R.T. 0.001 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15



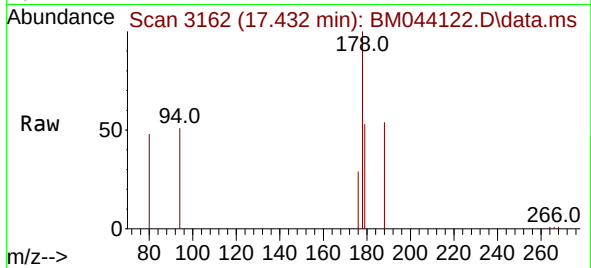
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.6  | 12.6  | 19.0  |
| 176     | 20.1  | 16.0  | 24.0  |





#16  
 Anthracene  
 Concen: 0.102 ng/ul m  
 RT: 17.432 min Scan# 3162  
 Delta R.T. -0.003 min  
 Lab File: BM044122.D  
 Acq: 16 Feb 2024 04:15

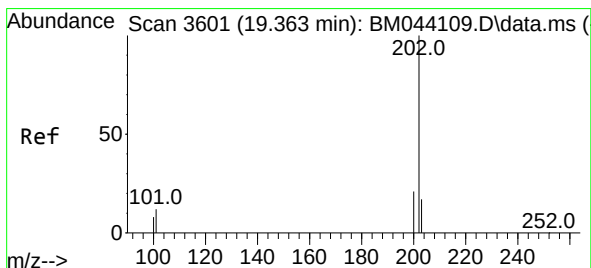
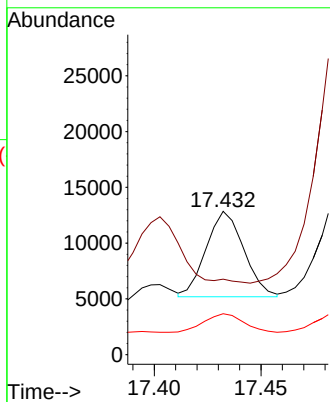
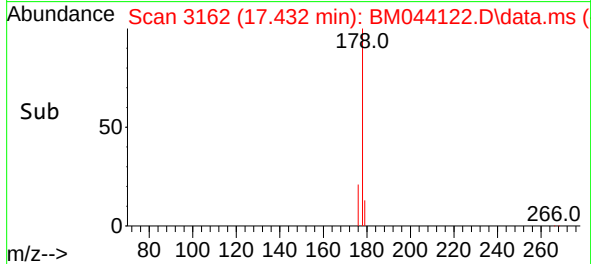
Instrument :  
 BNA\_M  
 ClientSampleId :  
 COFN0



Tgt Ion:178 Resp: 9385  
 Ion Ratio Lower Upper  
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 179 52.6 12.8 19.2  
 176 28.6 15.3 22.9

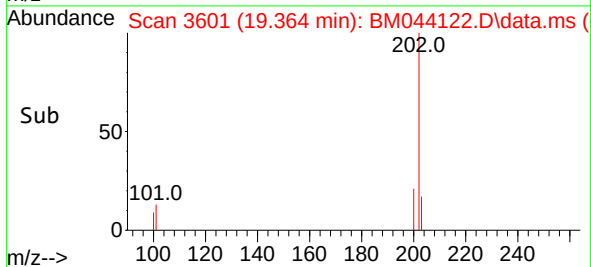
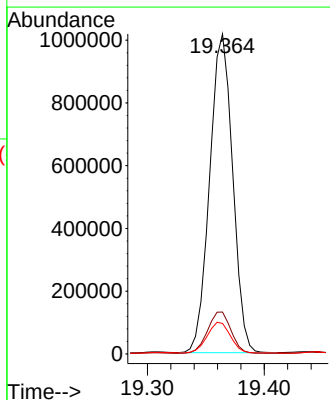
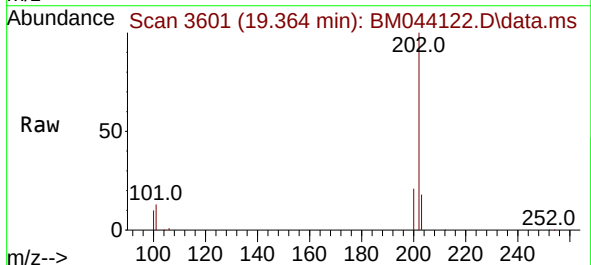
Manual Integrations  
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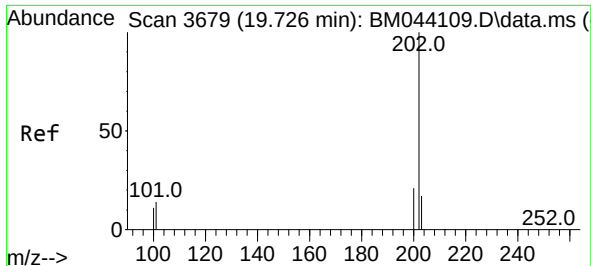
Reviewed By :Yogesh Patel 02/17/2024  
 Supervised By :mohammad ahmed 02/19/2024



#19  
 Fluoranthene  
 Concen: 22.025 ng/ul m  
 RT: 19.364 min Scan# 3601  
 Delta R.T. 0.001 min  
 Lab File: BM044122.D  
 Acq: 16 Feb 2024 04:15

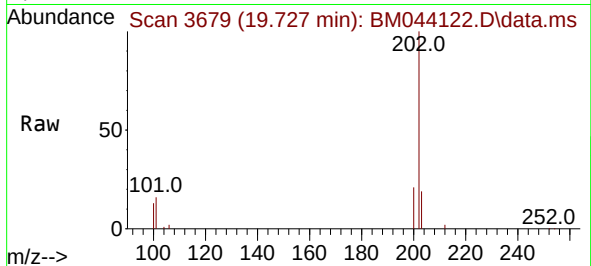
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 Ion Ratio Lower Upper  
 202 100  
 101 13.1 9.8 14.6  
 100 9.6 7.0 10.4





#20  
Pyrene  
Concen: 11.966 ng/ul  
RT: 19.727 min Scan# 30  
Delta R.T. 0.001 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

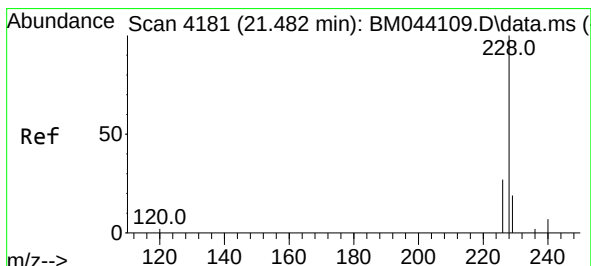
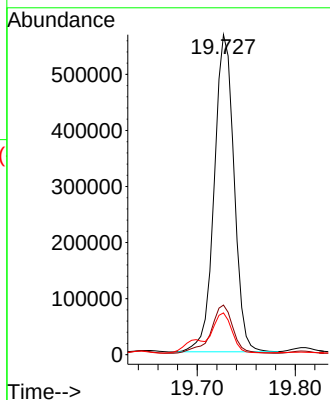
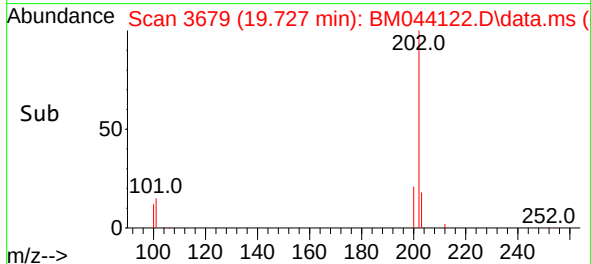
Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



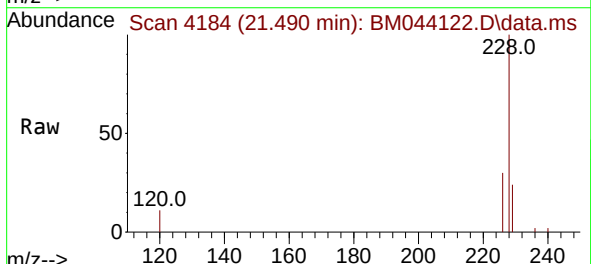
Tgt Ion:202 Resp: 79525  
Ion Ratio Lower Upper  
202 100  
101 15.5 11.2 16.8  
100 13.0 8.6 13.0

Manual Integrations  
APPROVED

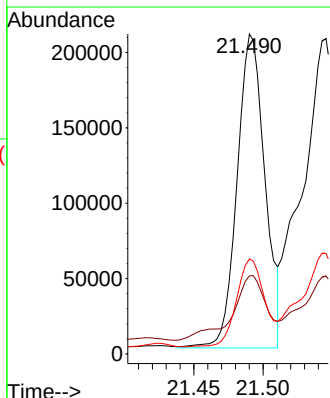
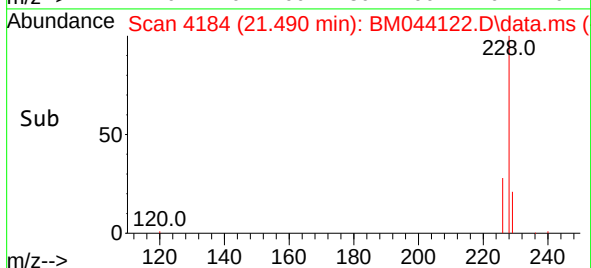
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



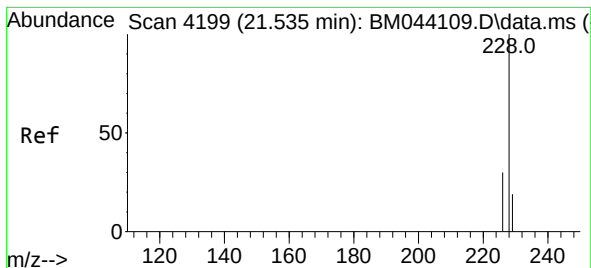
#21  
Benzo(a)anthracene  
Concen: 4.597 ng/ul m  
RT: 21.490 min Scan# 4184  
Delta R.T. 0.005 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15



Tgt Ion:228 Resp: 291850  
Ion Ratio Lower Upper  
228 100  
229 24.4 15.4 23.2#  
226 29.7 22.1 33.1







#22

Chrysene

Concen: 5.440 ng/ul m

RT: 21.546 min Scan# 41

Delta R.T. 0.008 min

Lab File: BM044122.D

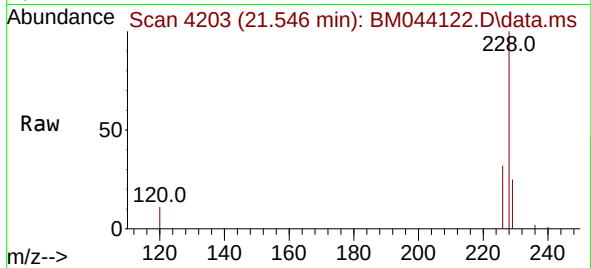
Acq: 16 Feb 2024 04:15

Instrument :

BNA\_M

ClientSampleId :

COFNO



Tgt Ion:228 Resp: 372334

Ion Ratio Lower Upper

228 100

226 31.9 24.2 36.2

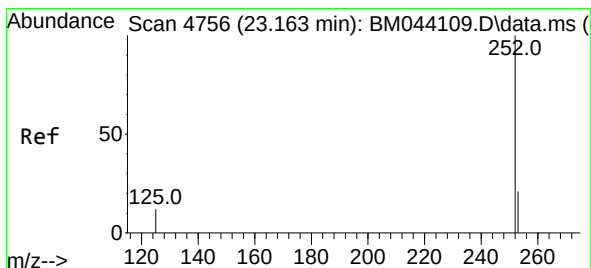
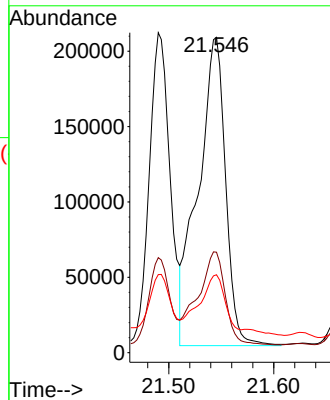
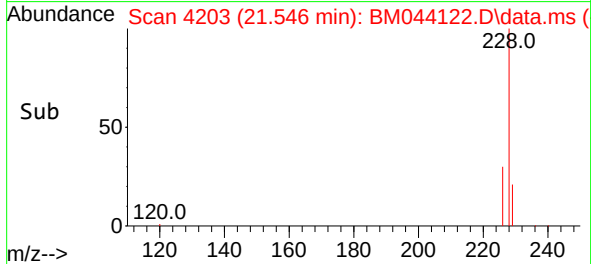
229 24.7 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/17/2024

Supervised By :mohammad ahmed 02/19/2024



#24

Benzo(b)fluoranthene

Concen: 7.138 ng/ul m

RT: 23.176 min Scan# 4761

Delta R.T. 0.014 min

Lab File: BM044122.D

Acq: 16 Feb 2024 04:15

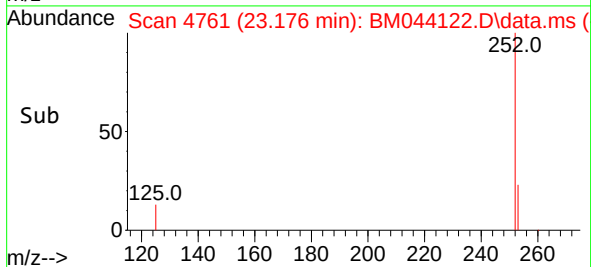
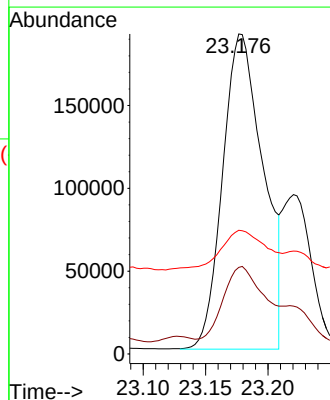
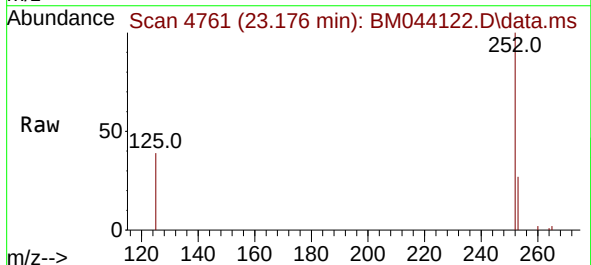
Tgt Ion:252 Resp: 431506

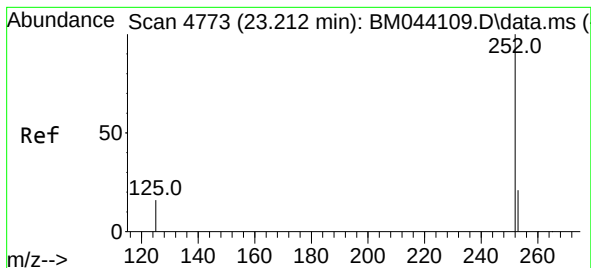
Ion Ratio Lower Upper

252 100

253 27.0 0.0 50.0

125 38.7 0.0 28.2#





#25

Benzo(k)fluoranthene

Concen: 2.361 ng/ul m

RT: 23.220 min Scan# 4

Delta R.T. 0.008 min

Lab File: BM044122.D

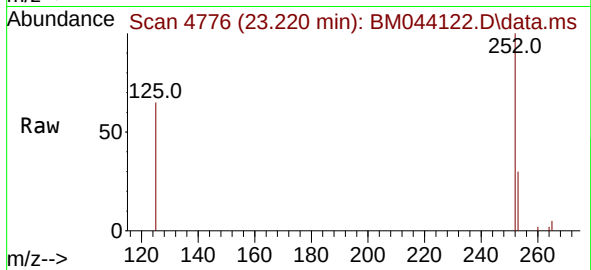
Acq: 16 Feb 2024 04:15

Instrument :

BNA\_M

ClientSampleId :

C0FN0



Tgt Ion:252 Resp: 154934

Ion Ratio Lower Upper

252 100

253 30.0 20.1 30.1

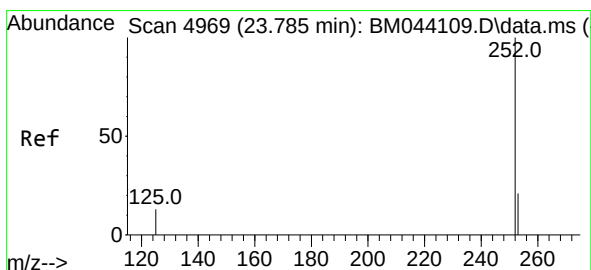
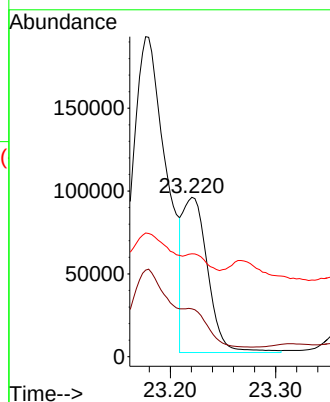
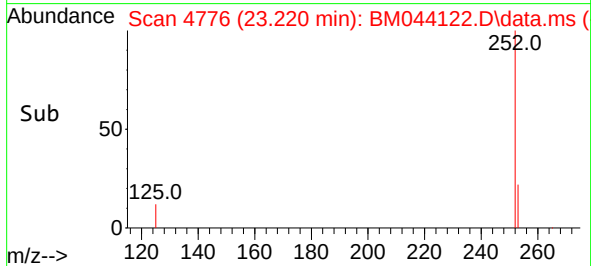
125 64.6 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/17/2024

Supervised By :mohammad ahmed 02/19/2024



#26

Benzo(a)pyrene

Concen: 4.257 ng/ul m

RT: 23.799 min Scan# 4974

Delta R.T. 0.014 min

Lab File: BM044122.D

Acq: 16 Feb 2024 04:15

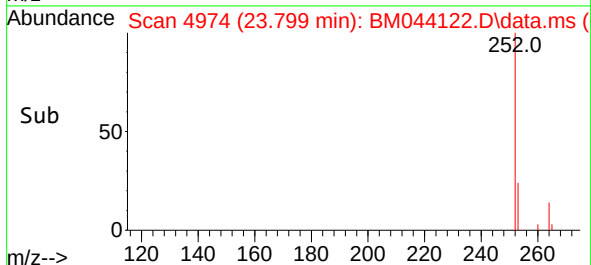
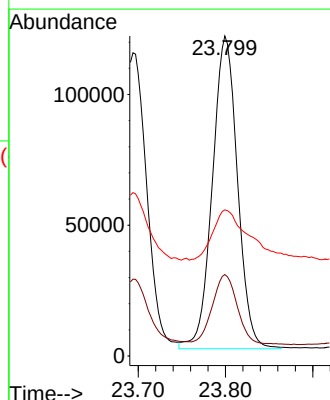
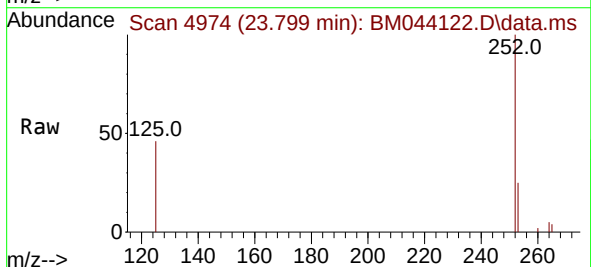
Tgt Ion:252 Resp: 239187

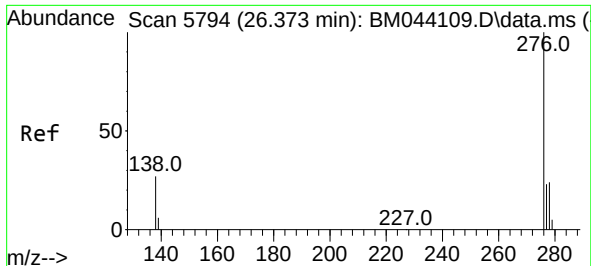
Ion Ratio Lower Upper

252 100

253 25.5 21.4 32.2

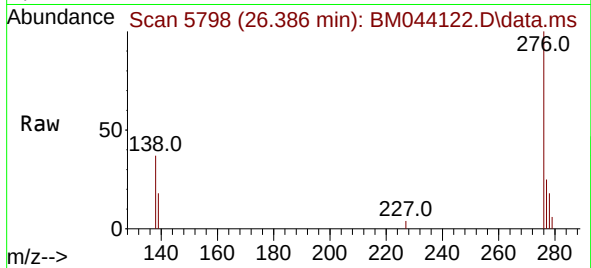
125 45.6 13.3 19.9#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 2.455 ng/ul m  
RT: 26.386 min Scan# 5798  
Delta R.T. 0.016 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

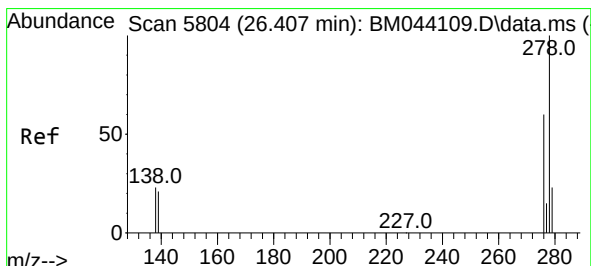
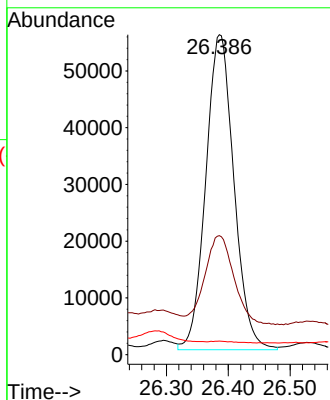
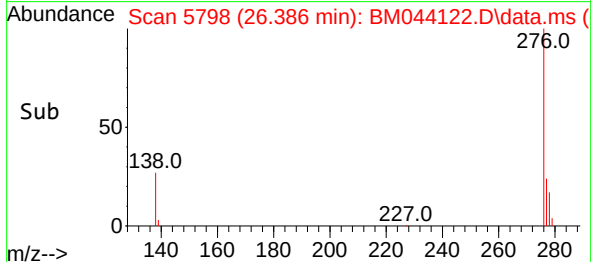
Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



Tgt Ion:276 Resp: 175670  
Ion Ratio Lower Upper  
276 100  
138 29.0 25.2 37.8  
227 0.0 0.1 0.1

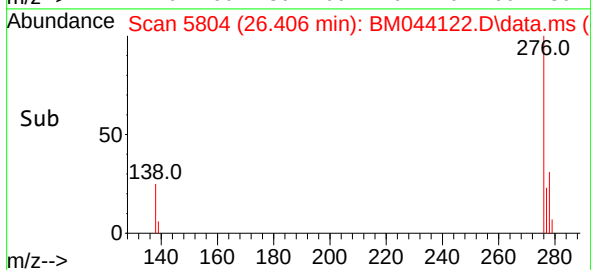
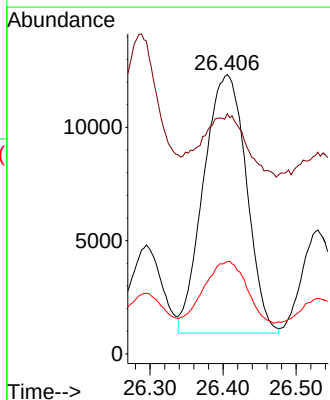
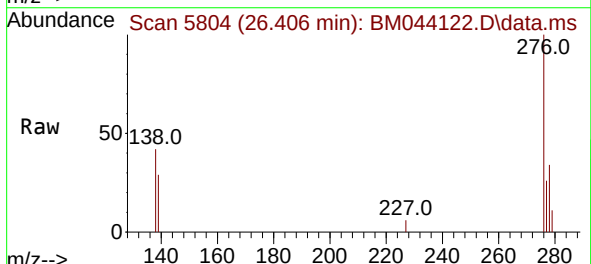
Manual Integrations  
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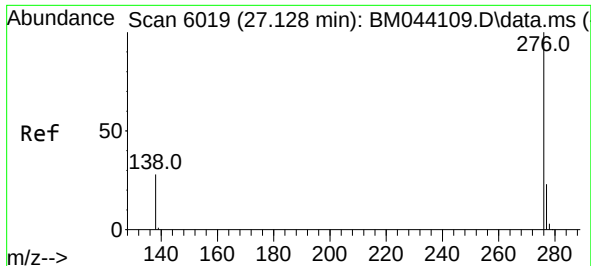
Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024



#28  
Dibenzo(a,h)anthracene  
Concen: 0.825 ng/ul m  
RT: 26.406 min Scan# 5804  
Delta R.T. -0.004 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

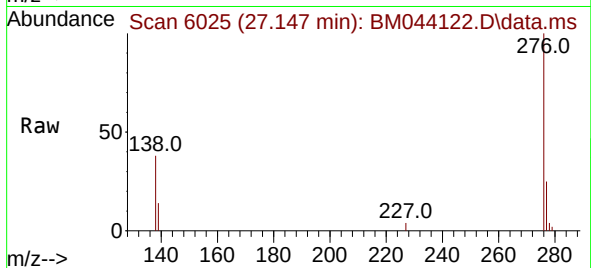
Tgt Ion:278 Resp: 46450  
Ion Ratio Lower Upper  
278 100  
139 86.0 17.8 26.8#  
279 33.1 21.8 32.8#





#29  
Benzo(g,h,i)perylene  
Concen: 2.611 ng/ul m  
RT: 27.147 min Scan# 6019  
Delta R.T. 0.019 min  
Lab File: BM044122.D  
Acq: 16 Feb 2024 04:15

Instrument :  
BNA\_M  
ClientSampleId :  
COFN0



Tgt Ion:276 Resp: 165214  
Ion Ratio Lower Upper  
276 100  
138 37.7 22.7 34.1  
277 24.8 19.0 28.6

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/17/2024  
Supervised By :mohammad ahmed 02/19/2024

