

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042924\  
 Data File : BM045618.D  
 Acq On : 29 Apr 2024 12:41  
 Operator : MA/JU  
 Sample : P2154-08  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 XA397

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 05/02/2024  
 Supervised By :mohammad ahmed 05/02/2024

Quant Time: Apr 29 13:11:06 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM042024.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 26 23:51:18 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.555  | 152  | 736      | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.320 | 136  | 2036     | 0.400  | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.191 | 164  | 1076     | 0.400  | ng/ul  | -0.02    |
| 13) Phenanthrene-d10        | 16.963 | 188  | 2009     | 0.400  | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.179 | 240  | 1743     | 0.400  | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.370 | 264  | 2502     | 0.400  | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.167  | 96   | 752      | 0.762  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.947 | 152  | 907      | 0.338  | ng/ul  | 0.02     |
| 18) Fluoranthene-d10        | 19.006 | 212  | 1750     | 0.319  | ng/ul  | -0.01    |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.369 | 128  | 10400    | 1.902  | ng/ul# | 91       |
| 10) Acenaphthylene          | 13.909 | 152  | 28832    | 5.433  | ng/ul# | 93       |
| 11) Acenaphthene            | 14.256 | 153  | 39439    | 10.008 | ng/ul  | 96       |
| 12) Fluorene                | 15.260 | 166  | 28948    | 6.868  | ng/ul# | 96       |
| 15) Phenanthrene            | 17.005 | 178  | 19349m   | 3.307  | ng/ul  |          |
| 16) Anthracene              | 17.102 | 178  | 19312    | 3.528  | ng/ul# | 90       |
| 19) Fluoranthene            | 19.034 | 202  | 11751    | 1.461  | ng/ul# | 91       |
| 20) Pyrene                  | 19.401 | 202  | 25169    | 3.044  | ng/ul# | 90       |
| 21) Benzo(a)anthracene      | 21.167 | 228  | 22010    | 3.951  | ng/ul  | 92       |
| 22) Chrysene                | 21.217 | 228  | 5903     | 0.689  | ng/ul  | 96       |
| 24) Benzo(b)fluoranthene    | 22.716 | 252  | 15049    | 1.788  | ng/ul  | 85       |
| 25) Benzo(k)fluoranthene    | 22.756 | 252  | 16546    | 1.556  | ng/ul# | 84       |
| 26) Benzo(a)pyrene          | 23.277 | 252  | 13894    | 1.592  | ng/ul# | 76       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.555 | 276  | 13436    | 1.059  | ng/ul# | 95       |
| 28) Dibenzo(a,h)anthracene  | 25.568 | 278  | 20902    | 2.077  | ng/ul# | 81       |
| 29) Benzo(g,h,i)perylene    | 26.212 | 276  | 17508    | 1.536  | ng/ul# | 92       |
| -----                       |        |      |          |        |        |          |

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

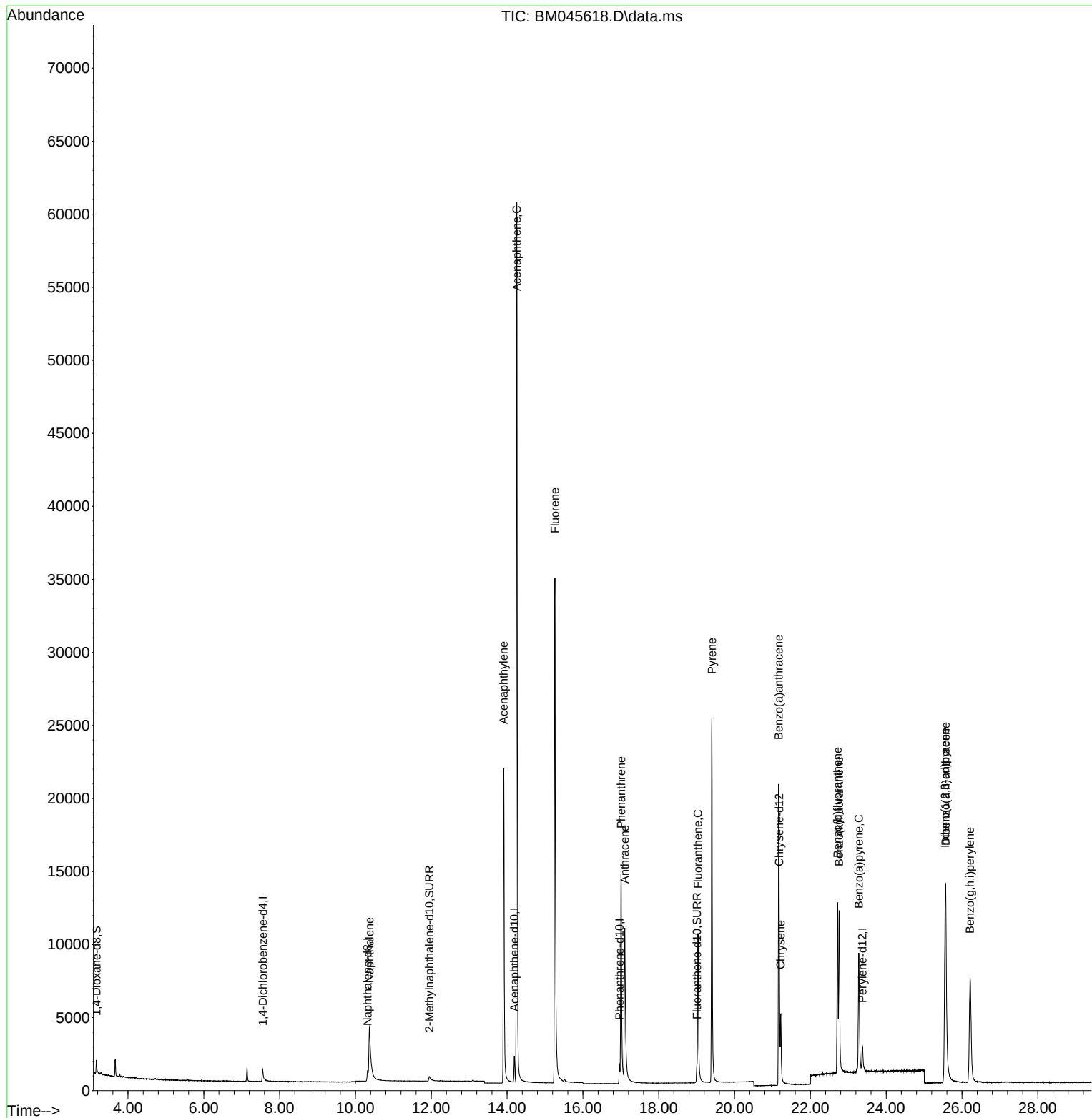
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042924\  
Data File : BM045618.D  
Acq On : 29 Apr 2024 12:41  
Operator : MA/JU  
Sample : P2154-08  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

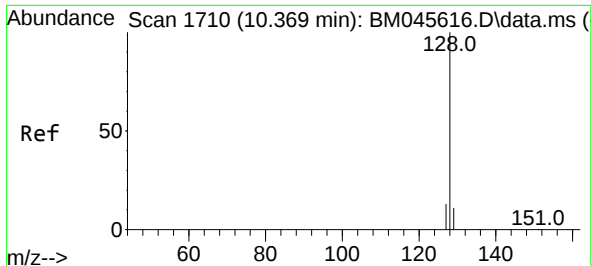
Instrument :  
BNA\_M  
ClientSampleId :  
XA397

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APPROVED

Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024

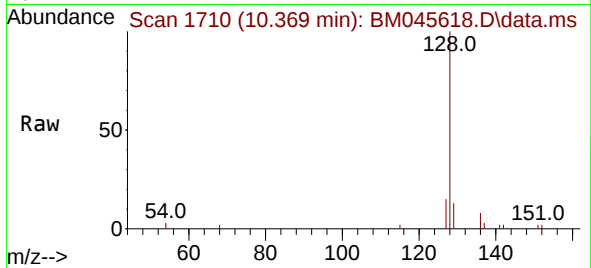
Quant Time: Apr 29 13:11:06 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM042024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 26 23:51:18 2024  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 1.902 ng/ul  
RT: 10.369 min Scan# 1710  
Delta R.T. -0.011 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

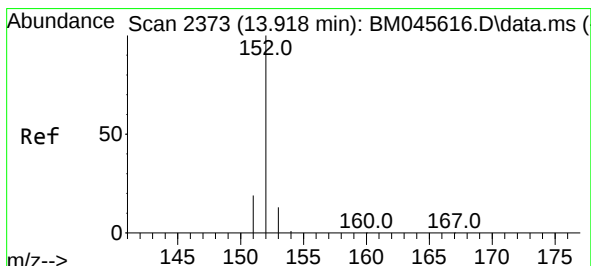
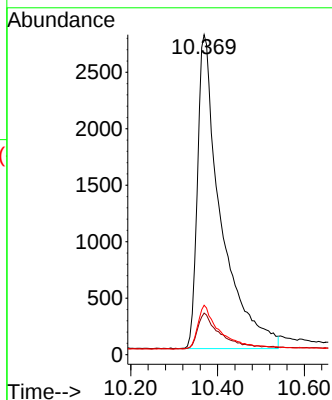
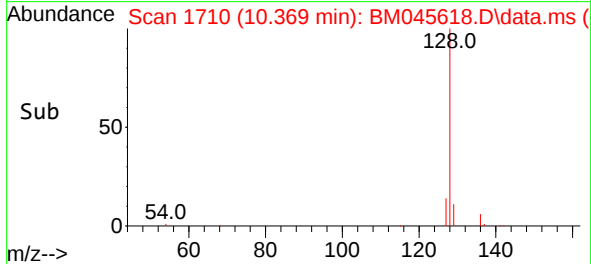
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



Tgt Ion:128 Resp: 10400  
Ion Ratio Lower Upper  
128 100  
129 13.0 14.0 21.0  
127 15.5 15.4 23.2

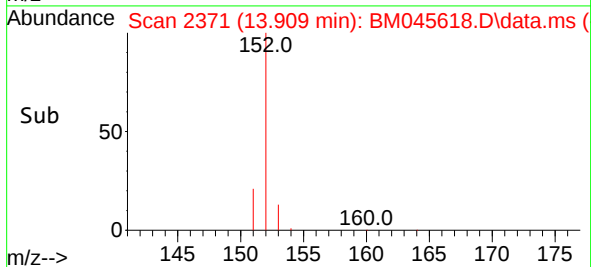
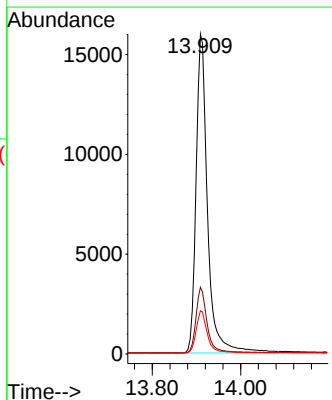
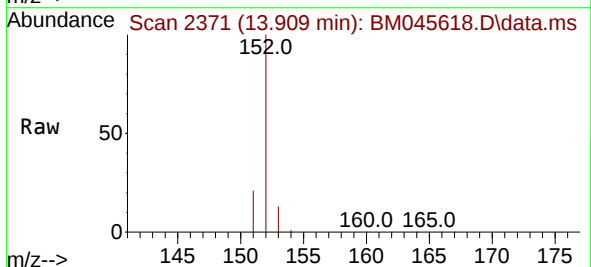
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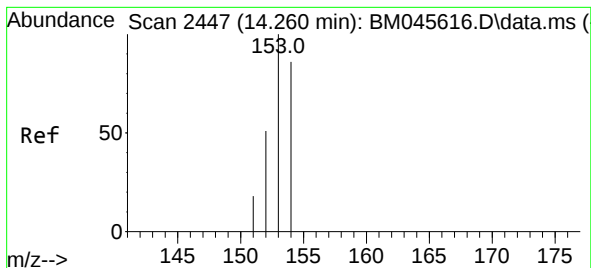
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024



#10  
Acenaphthylene  
Concen: 5.433 ng/ul  
RT: 13.909 min Scan# 2371  
Delta R.T. -0.018 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

Tgt Ion:152 Resp: 28832  
Ion Ratio Lower Upper  
152 100  
151 20.9 18.6 28.0  
153 13.5 14.1 21.1#





#11

Acenaphthene

Concen: 10.008 ng/ul

RT: 14.256 min Scan# 2446

Delta R.T. -0.014 min

Lab File: BM045618.D

Acq: 29 Apr 2024 12:41

Instrument :

BNA\_M

ClientSampleId :

XA397

Tgt Ion:153 Resp: 39439

Ion Ratio Lower Upper

153 100

152 49.0 43.4 65.2

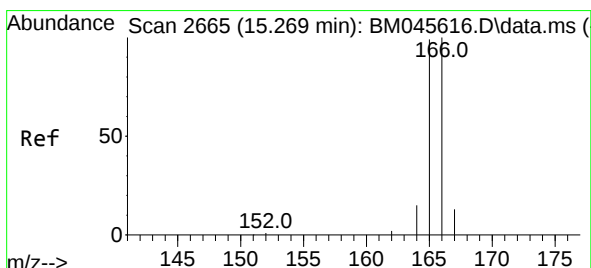
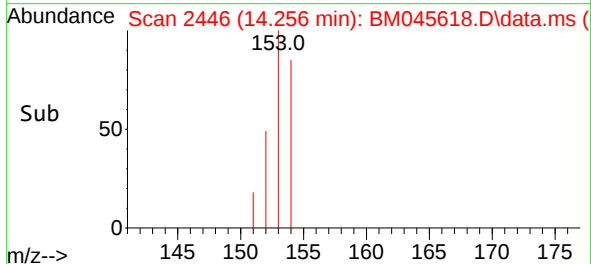
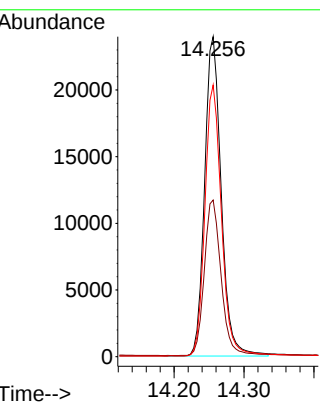
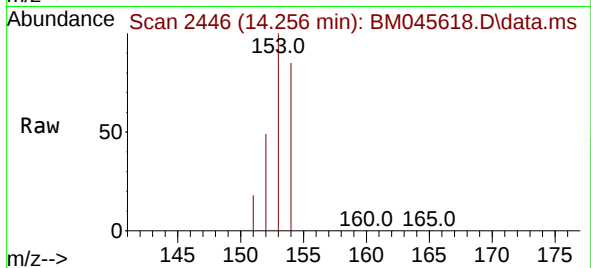
154 84.9 69.0 103.6

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Supervised By :mohammad ahmed 05/02/2024



#12

Fluorene

Concen: 6.868 ng/ul

RT: 15.260 min Scan# 2663

Delta R.T. -0.018 min

Lab File: BM045618.D

Acq: 29 Apr 2024 12:41

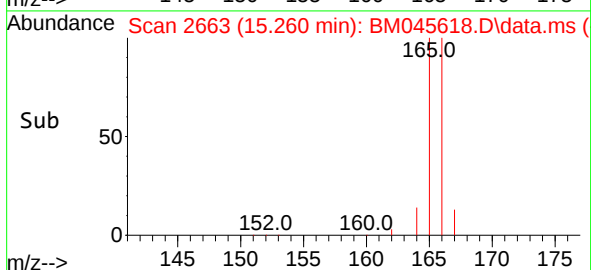
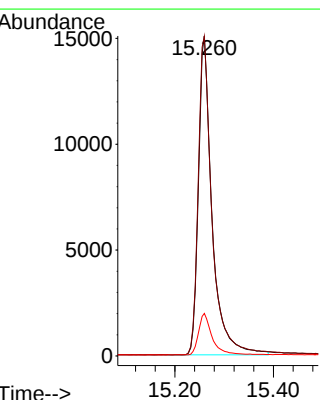
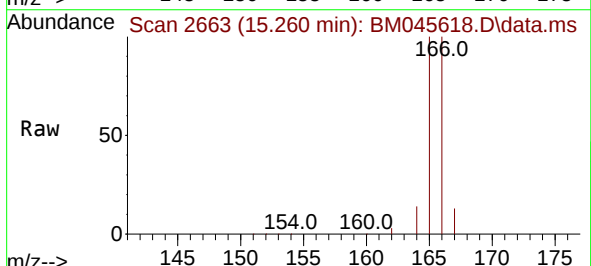
Tgt Ion:166 Resp: 28948

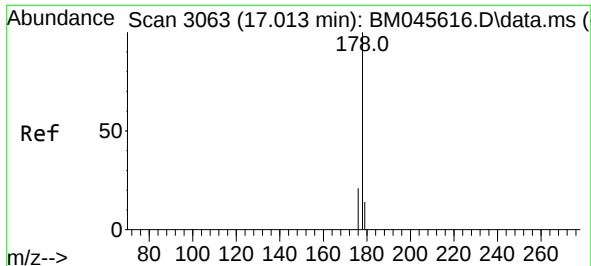
Ion Ratio Lower Upper

166 100

165 99.9 82.2 123.2

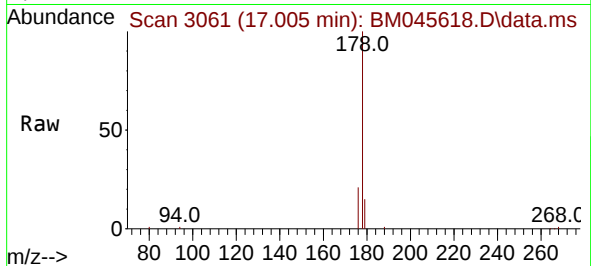
167 13.3 14.8 22.2#





#15  
Phenanthrene  
Concen: 3.307 ng/ul m  
RT: 17.005 min Scan# 3061  
Delta R.T. -0.017 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

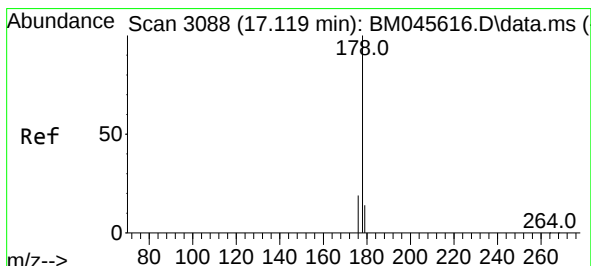
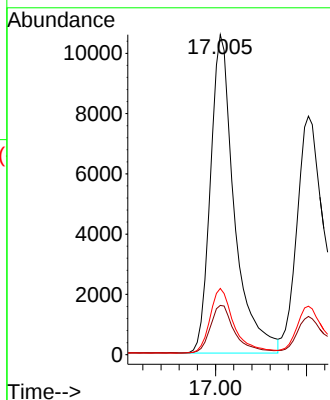
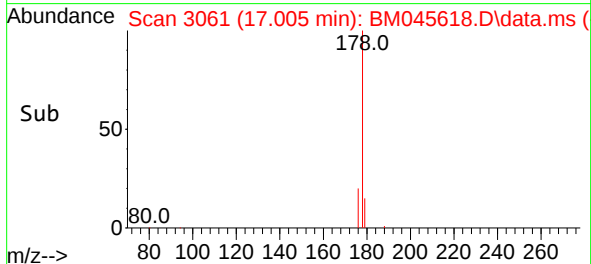
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



Tgt Ion:178 Resp: 19349  
Ion Ratio Lower Upper  
178 100  
179 15.4 15.4 23.2  
176 20.7 19.0 28.4

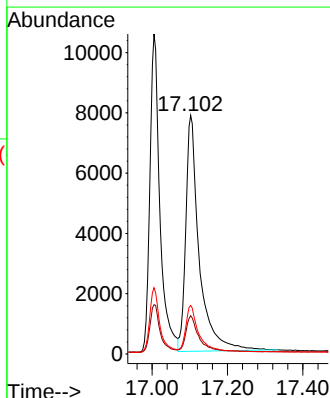
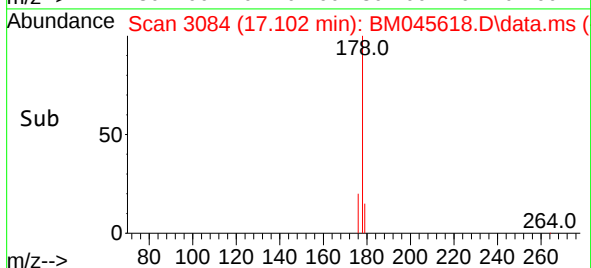
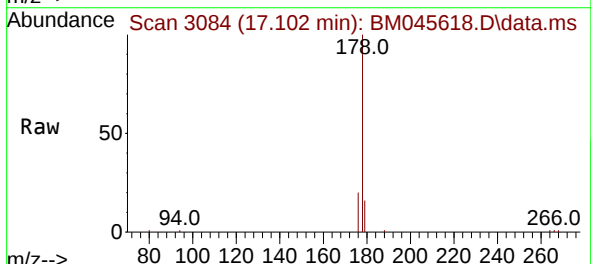
Manual Integrations  
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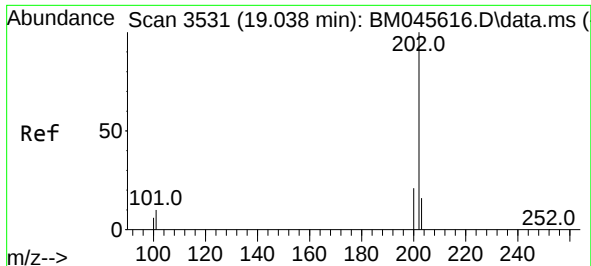
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024



#16  
Anthracene  
Concen: 3.528 ng/ul  
RT: 17.102 min Scan# 3084  
Delta R.T. -0.017 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

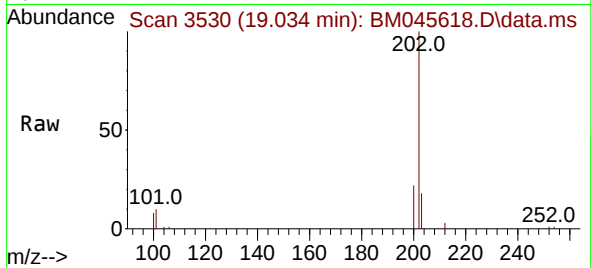
Tgt Ion:178 Resp: 19312  
Ion Ratio Lower Upper  
178 100  
179 16.0 17.8 26.6#  
176 20.3 18.7 28.1





#19  
Fluoranthene  
Concen: 1.461 ng/ul  
RT: 19.034 min Scan# 3531  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

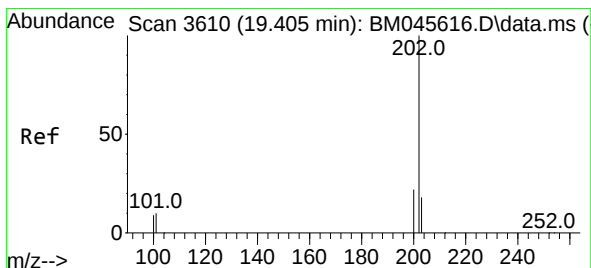
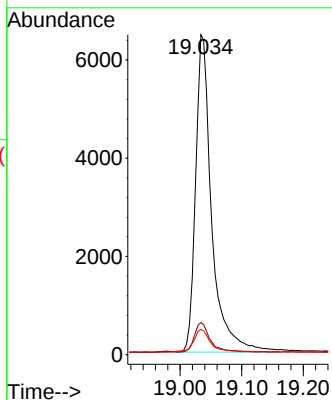
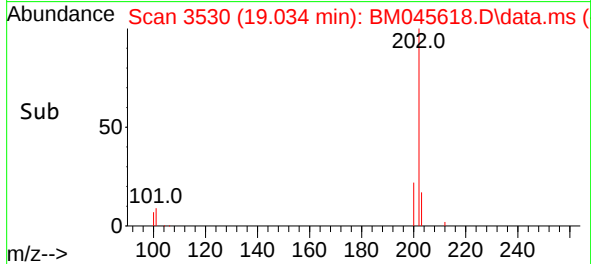
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



Tgt Ion:202 Resp: 1175  
Ion Ratio Lower Upper  
202 100  
101 10.1 11.2 16.8  
100 7.9 9.1 13.7

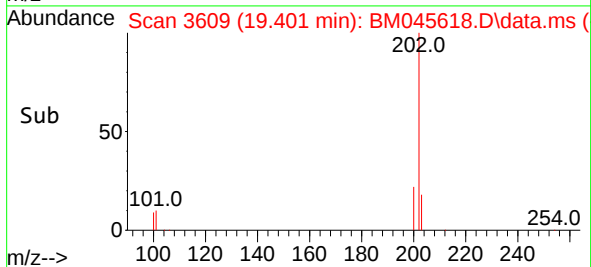
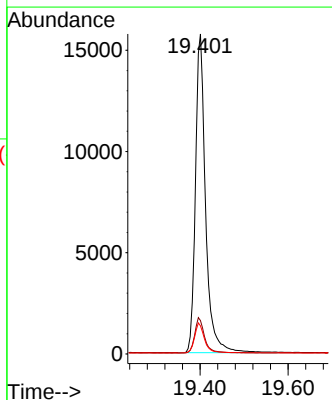
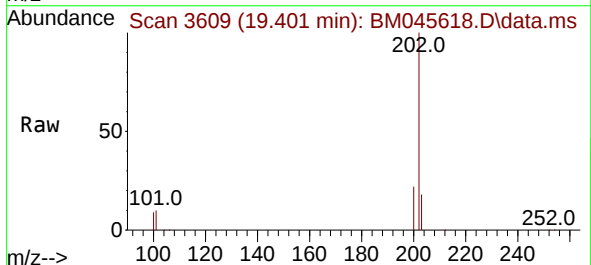
Manual Integrations  
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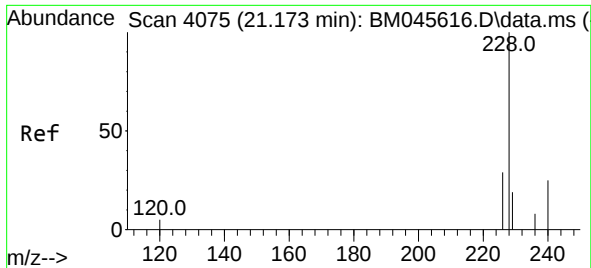
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024



#20  
Pyrene  
Concen: 3.044 ng/ul  
RT: 19.401 min Scan# 3609  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

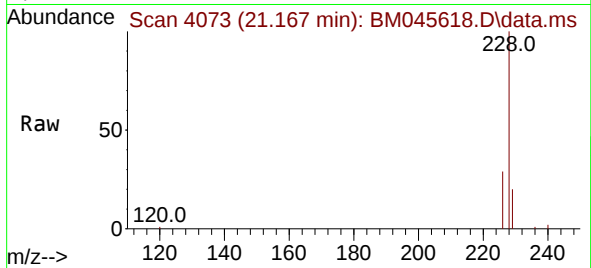
Tgt Ion:202 Resp: 25169  
Ion Ratio Lower Upper  
202 100  
101 10.5 11.5 17.3#  
100 8.8 10.6 15.8#





#21  
Benzo(a)anthracene  
Concen: 3.951 ng/ul  
RT: 21.167 min Scan# 4073  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

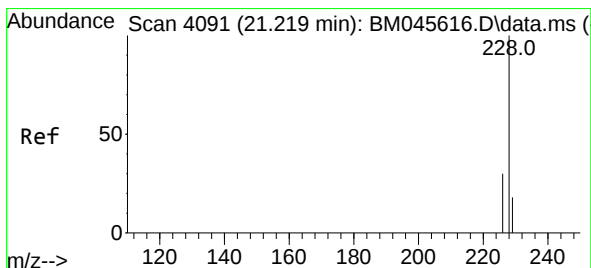
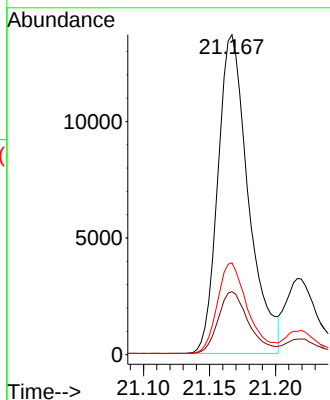
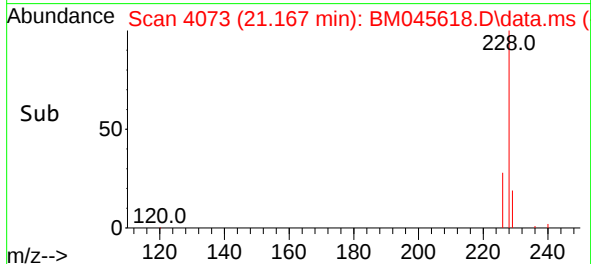
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



Tgt Ion:228 Resp: 22010  
Ion Ratio Lower Upper  
228 100  
229 19.7 19.4 29.2  
226 28.7 26.3 39.5

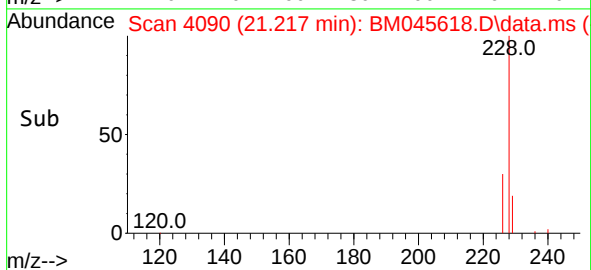
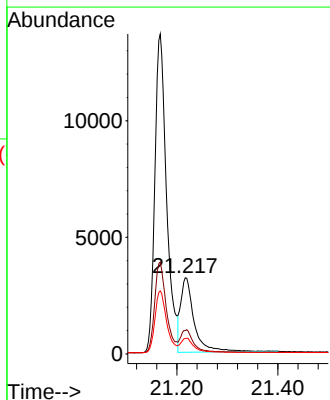
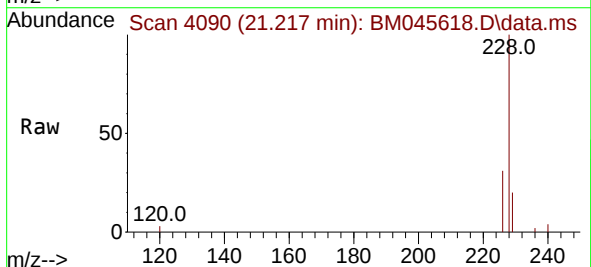
Manual Integrations  
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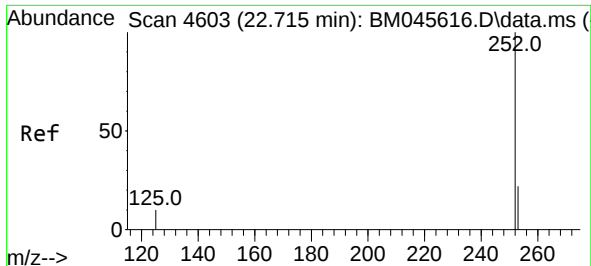
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024



#22  
Chrysene  
Concen: 0.689 ng/ul  
RT: 21.217 min Scan# 4090  
Delta R.T. -0.012 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

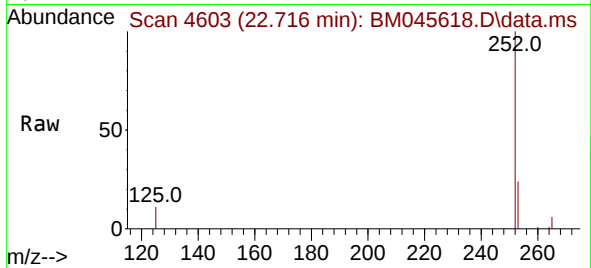
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Ion Ratio Lower Upper  
228 100  
226 30.8 26.3 39.5  
229 20.3 17.8 26.8





#24  
Benzo(b)fluoranthene  
Concen: 1.788 ng/ul  
RT: 22.716 min Scan# 4603  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

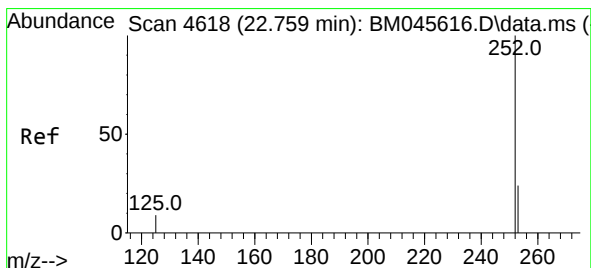
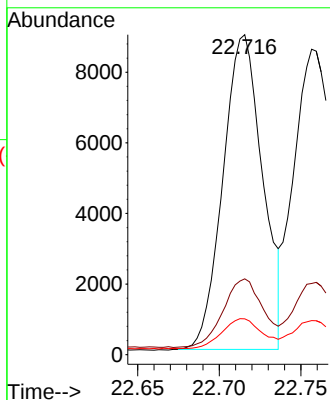
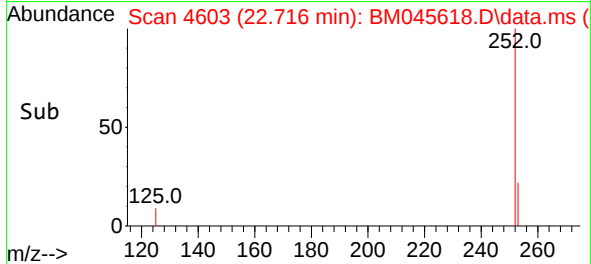
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



Tgt Ion:252 Resp: 15049  
Ion Ratio Lower Upper  
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253 23.7 0.0 63.4  
125 11.2 0.0 36.8

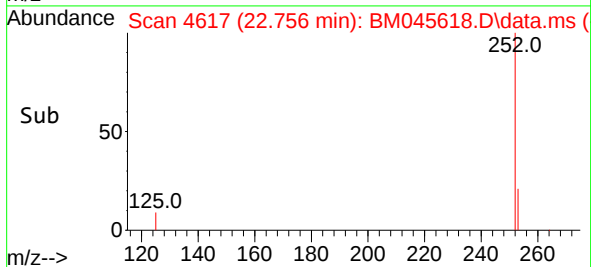
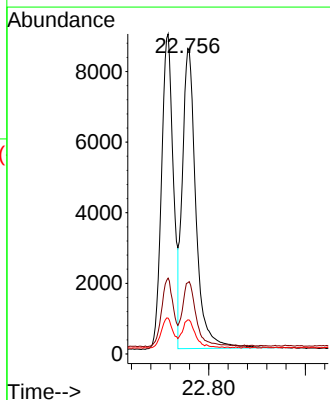
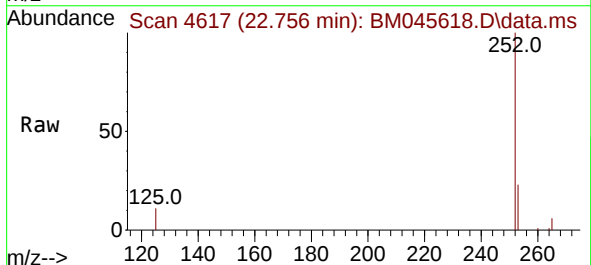
Manual Integrations  
APPROVED

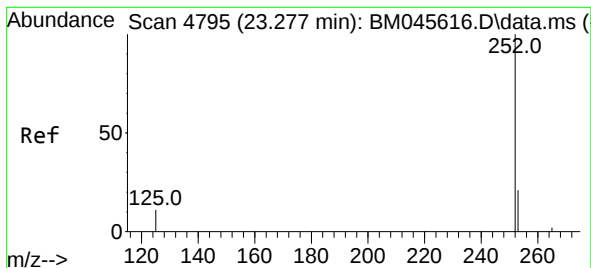
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024



#25  
Benzo(k)fluoranthene  
Concen: 1.556 ng/ul  
RT: 22.756 min Scan# 4617  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

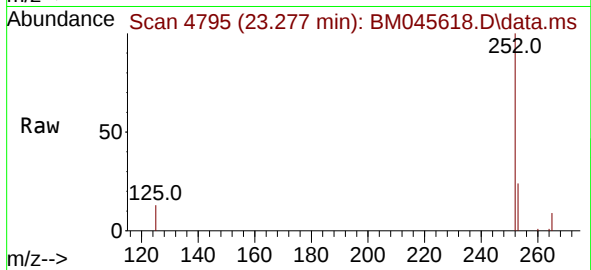
Tgt Ion:252 Resp: 16546  
Ion Ratio Lower Upper  
252 100  
253 23.3 25.4 38.0#  
125 11.2 14.8 22.2#





#26  
Benzo(a)pyrene  
Concen: 1.592 ng/ul  
RT: 23.277 min Scan# 4795  
Delta R.T. -0.014 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41

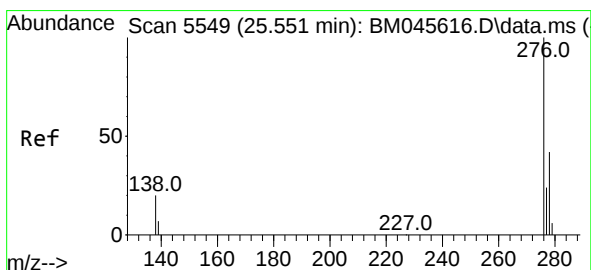
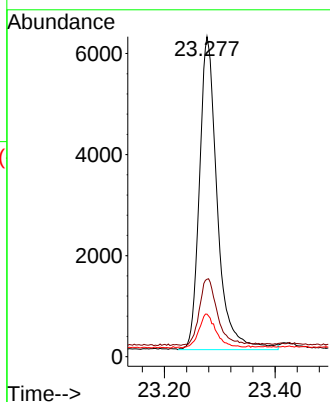
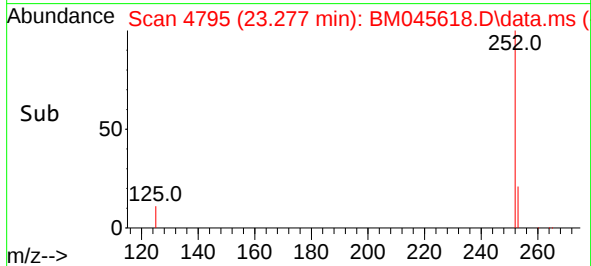
Instrument :  
BNA\_M  
ClientSampleId :  
XA397



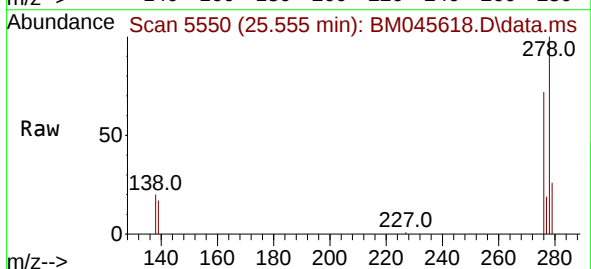
Tgt Ion:252 Resp: 13894  
Ion Ratio Lower Upper  
252 100  
253 24.2 31.6 47.4  
125 13.3 19.5 29.3

Manual Integrations  
APPROVED

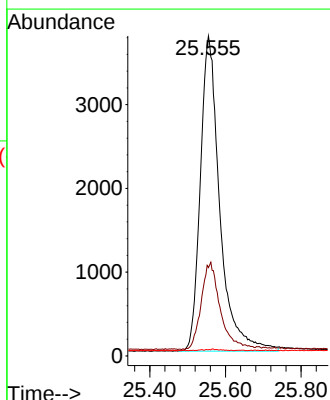
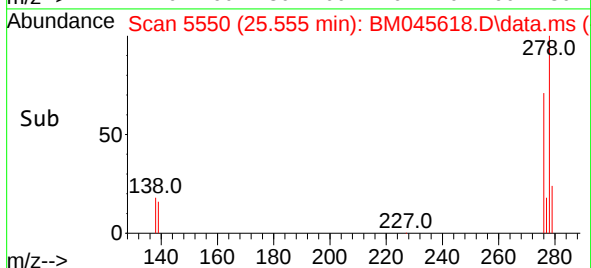
Reviewed By :Yogesh Patel 05/02/2024  
Supervised By :mohammad ahmed 05/02/2024

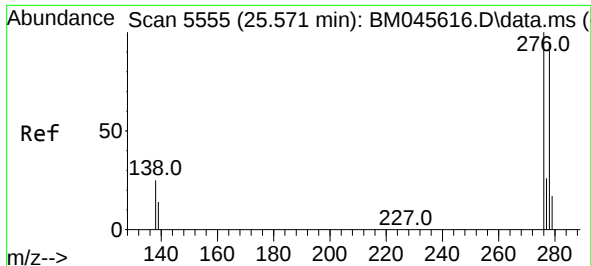


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.059 ng/ul  
RT: 25.555 min Scan# 5550  
Delta R.T. -0.017 min  
Lab File: BM045618.D  
Acq: 29 Apr 2024 12:41



Tgt Ion:276 Resp: 13436  
Ion Ratio Lower Upper  
276 100  
138 27.2 19.8 29.6  
227 0.1 0.2 0.2





#28

Dibenzo(a,h)anthracene

Concen: 2.077 ng/ul

RT: 25.568 min Scan# 51

Delta R.T. -0.020 min

Lab File: BM045618.D

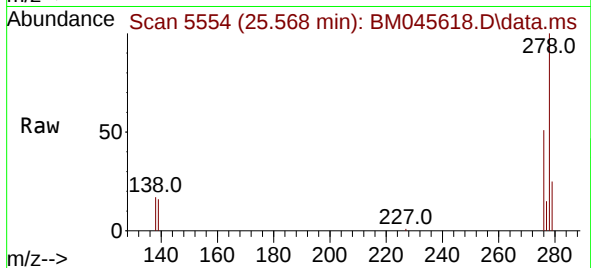
Acq: 29 Apr 2024 12:41

Instrument :

BNA\_M

ClientSampleId :

XA397



Tgt Ion:278 Resp: 20902

Ion Ratio Lower Upper

278 100

139 15.8 19.0 28.6

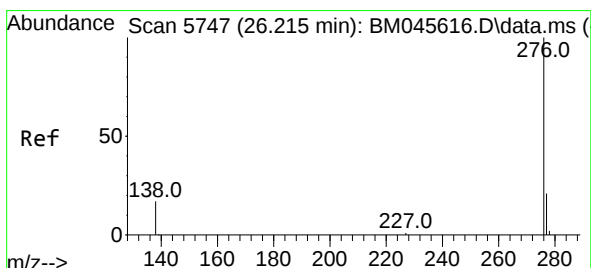
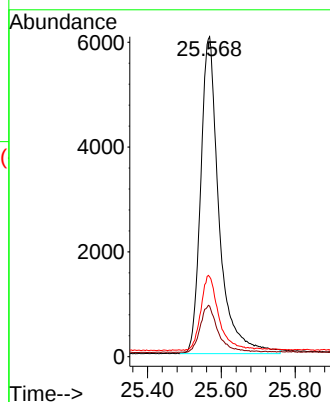
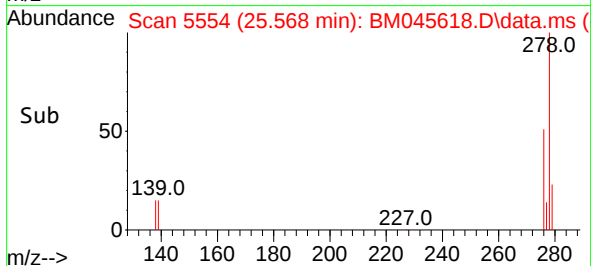
279 24.9 29.4 44.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 05/02/2024

Supervised By :mohammad ahmed 05/02/2024



#29

Benzo(g,h,i)perylene

Concen: 1.536 ng/ul

RT: 26.212 min Scan# 5746

Delta R.T. -0.023 min

Lab File: BM045618.D

Acq: 29 Apr 2024 12:41

Tgt Ion:276 Resp: 17508

Ion Ratio Lower Upper

276 100

138 20.3 20.8 31.2

277 24.7 21.8 32.8

