

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042524\  
 Data File : BM045599.D  
 Acq On : 26 Apr 2024 22:07  
 Operator : MA/JU  
 Sample : P2203-21MS  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E1CX4MS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 04/27/2024  
 Supervised By :mohammad ahmed 04/27/2024

Quant Time: Apr 26 23:53:53 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  | 831      | 0.400  | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.314 | 136  | 2319     | 0.400  | ng/ul  | #-0.02   |
| 9) Acenaphthene-d10         | 14.196 | 164  | 1134     | 0.400  | ng/ul  | -0.01    |
| 13) Phenanthrene-d10        | 16.959 | 188  | 2163     | 0.400  | ng/ul  | -0.02    |
| 17) Chrysene-d12            | 21.175 | 240  | 1950     | 0.400  | ng/ul  | #-0.02   |
| 23) Perylene-d12            | 23.361 | 264  | 2870     | 0.400  | ng/ul  | -0.02    |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.167  | 96   | 494      | 0.444  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.914 | 152  | 897      | 0.293  | ng/ul  | -0.02    |
| 18) Fluoranthene-d10        | 19.001 | 212  | 1508     | 0.246  | ng/ul  | -0.02    |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane              | 3.197  | 88   | 1352     | 1.262  | ng/ul# | 76       |
| 5) Naphthalene              | 10.364 | 128  | 19434    | 3.121  | ng/ul# | 87       |
| 7) 2-Methylnaphthalene      | 11.991 | 142  | 6217     | 1.748  | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.211 | 142  | 3470     | 0.870  | ng/ul  | 99       |
| 10) Acenaphthylene          | 13.918 | 152  | 4698     | 0.840  | ng/ul  | 97       |
| 11) Acenaphthene            | 14.256 | 153  | 9340     | 2.249  | ng/ul  | 96       |
| 12) Fluorene                | 15.260 | 166  | 11460    | 2.580  | ng/ul# | 97       |
| 15) Phenanthrene            | 17.001 | 178  | 63858    | 10.137 | ng/ul  | 92       |
| 16) Anthracene              | 17.094 | 178  | 21917    | 3.719  | ng/ul# | 91       |
| 19) Fluoranthene            | 19.029 | 202  | 67121    | 7.459  | ng/ul# | 89       |
| 20) Pyrene                  | 19.396 | 202  | 50073    | 5.414  | ng/ul# | 91       |
| 21) Benzo(a)anthracene      | 21.158 | 228  | 25925    | 4.159  | ng/ul  | 96       |
| 22) Chrysene                | 21.210 | 228  | 25655    | 2.677  | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.712 | 252  | 37574m   | 3.892  | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.750 | 252  | 14966m   | 1.227  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.268 | 252  | 24390    | 2.436  | ng/ul# | 82       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.541 | 276  | 22400    | 1.539  | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 25.554 | 278  | 8263     | 0.716  | ng/ul# | 91       |
| 29) Benzo(g,h,i)perylene    | 26.205 | 276  | 20875    | 1.596  | ng/ul  | 96       |
| -----                       |        |      |          |        |        |          |

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

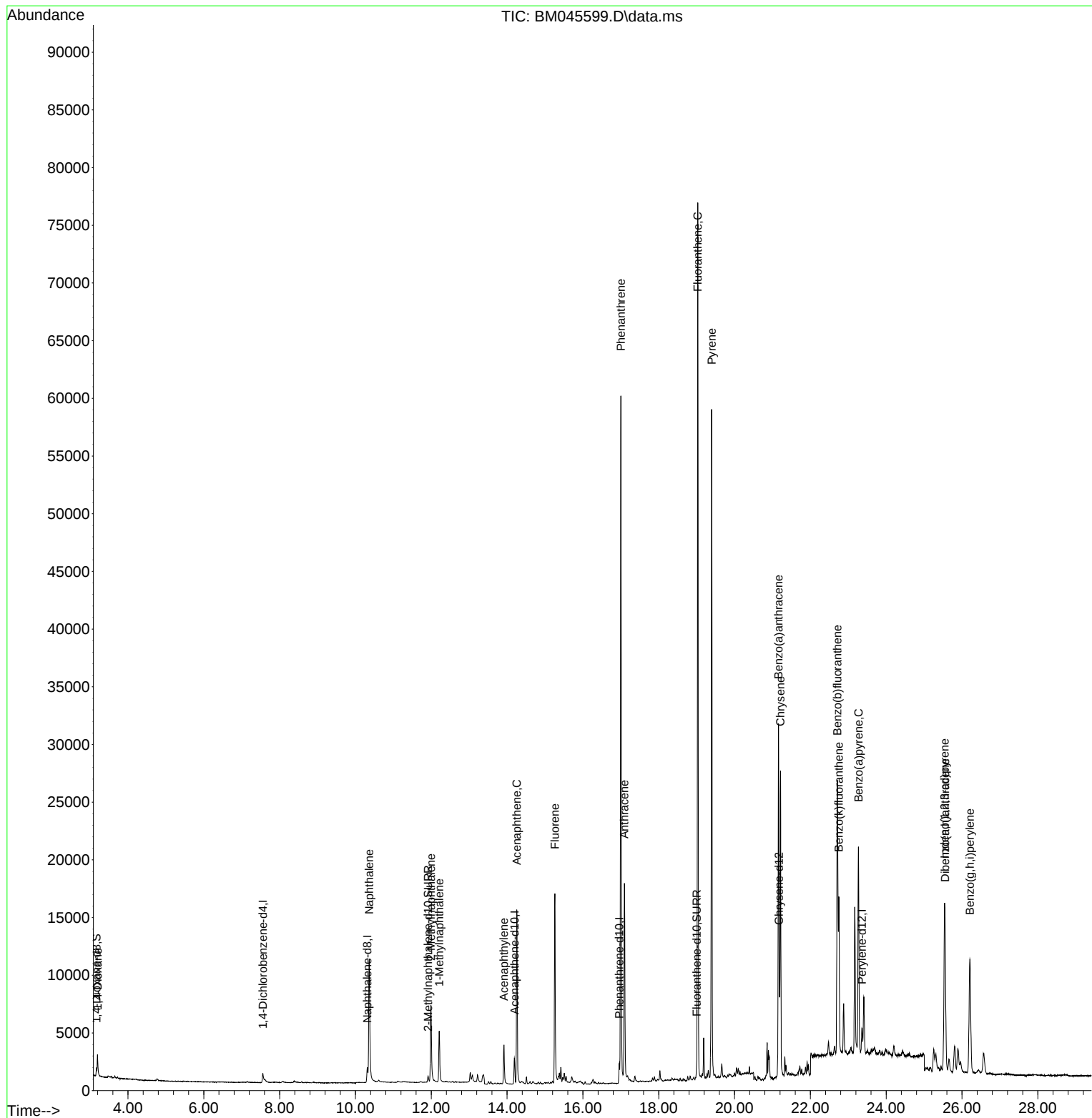
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM042524\  
Data File : BM045599.D  
Acq On : 26 Apr 2024 22:07  
Operator : MA/JU  
Sample : P2203-21MS  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

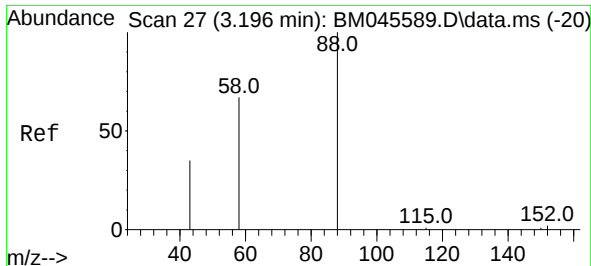
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024

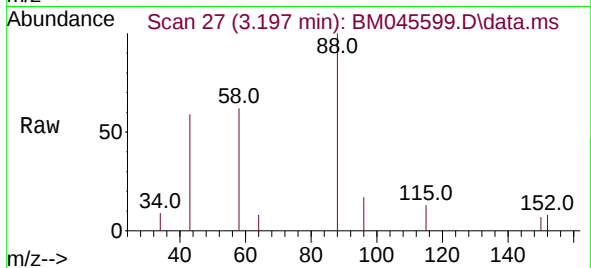
Quant Time: Apr 26 23:53:53 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM042024.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 26 23:51:18 2024  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 1.262 ng/ul  
RT: 3.197 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

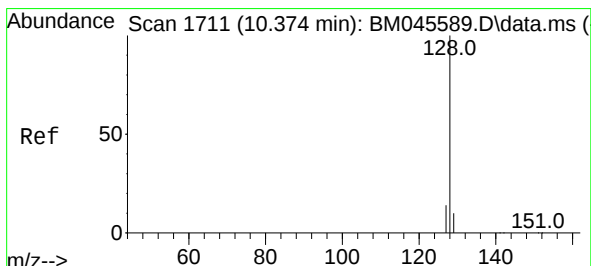
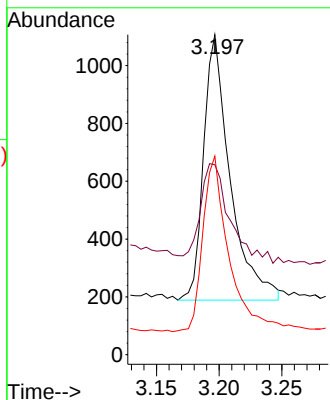
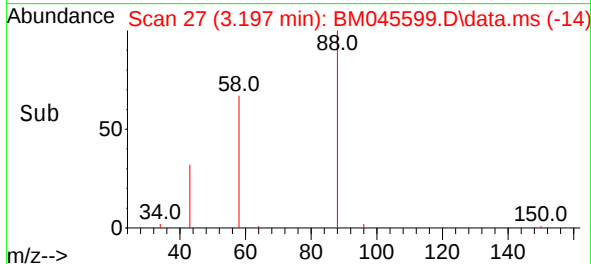
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion: 88 Resp: 135  
Ion Ratio Lower Upper  
88 100  
43 59.3 36.8 55.2  
58 62.1 35.4 53.2

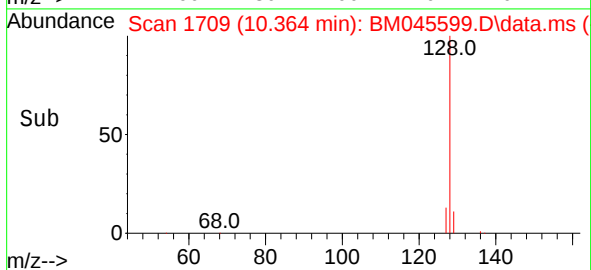
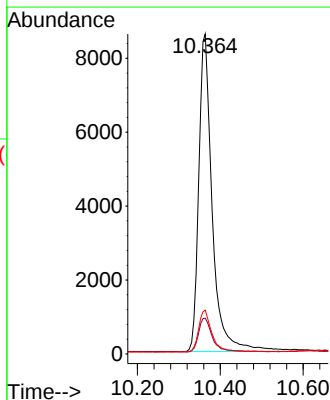
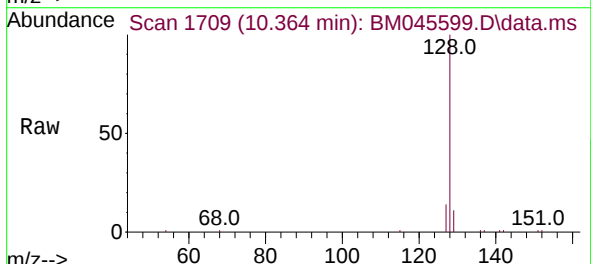
Manual Integrations  
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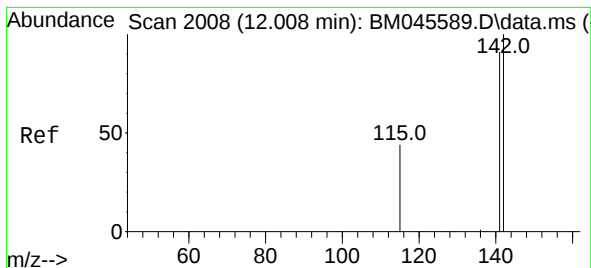
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024



#5  
Naphthalene  
Concen: 3.121 ng/ul  
RT: 10.364 min Scan# 1709  
Delta R.T. -0.016 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

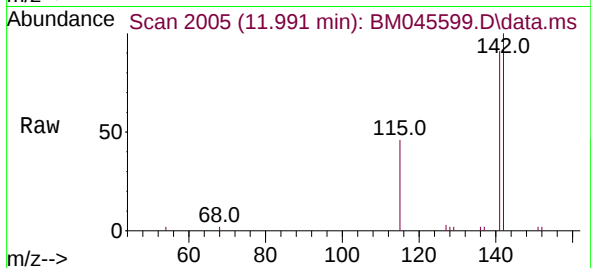
Tgt Ion:128 Resp: 19434  
Ion Ratio Lower Upper  
128 100  
129 11.2 14.0 21.0#  
127 13.7 15.4 23.2#





#7  
2-Methylnaphthalene  
Concen: 1.748 ng/ul  
RT: 11.991 min Scan# 2005  
Delta R.T. -0.016 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

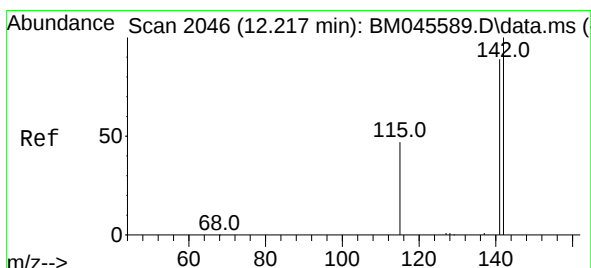
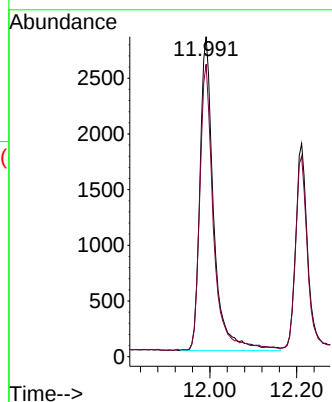
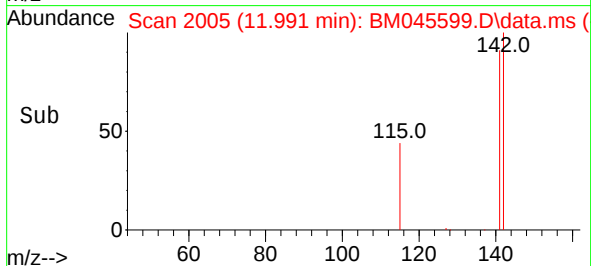
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



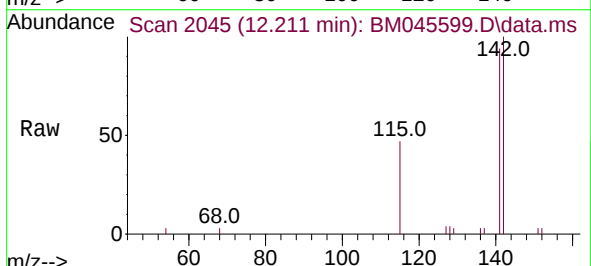
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Ion Ratio Lower Upper  
142 100  
141 89.8 74.6 111.8

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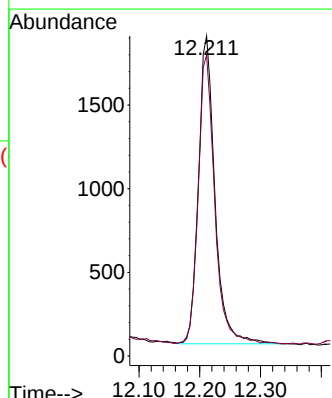
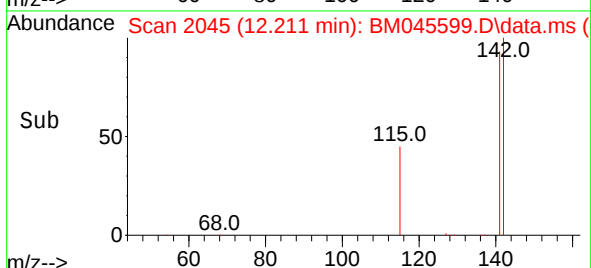
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024

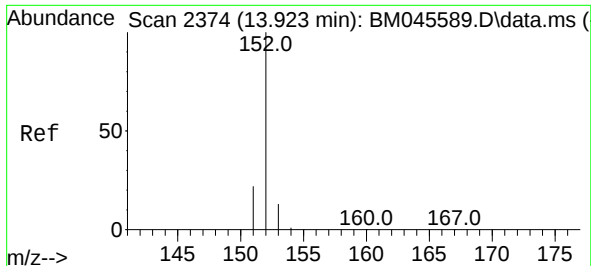


#8  
1-Methylnaphthalene  
Concen: 0.870 ng/ul  
RT: 12.211 min Scan# 2045  
Delta R.T. -0.011 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07



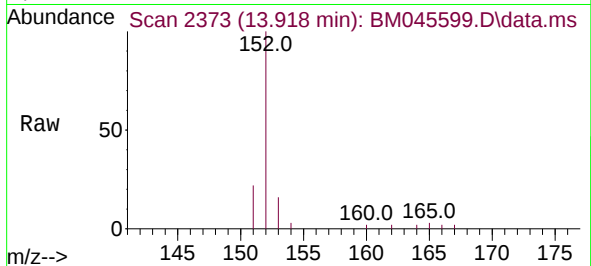
Tgt Ion:142 Resp: 3470  
Ion Ratio Lower Upper  
142 100  
141 93.8 76.1 114.1





#10  
Acenaphthylene  
Concen: 0.840 ng/ul  
RT: 13.918 min Scan# 2418  
Delta R.T. -0.009 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

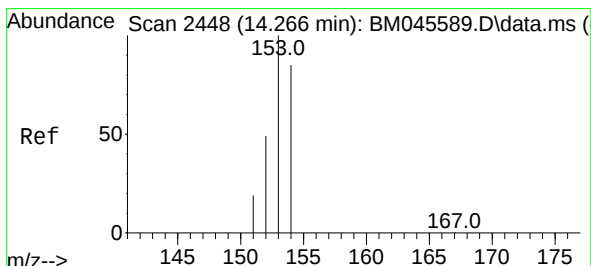
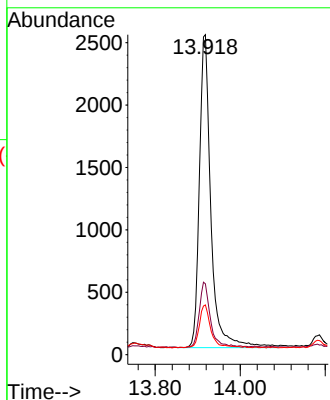
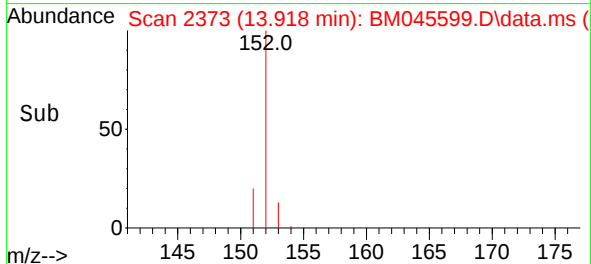
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion:152 Resp: 4698  
Ion Ratio Lower Upper  
152 100  
151 22.2 18.6 28.0  
153 15.6 14.1 21.1

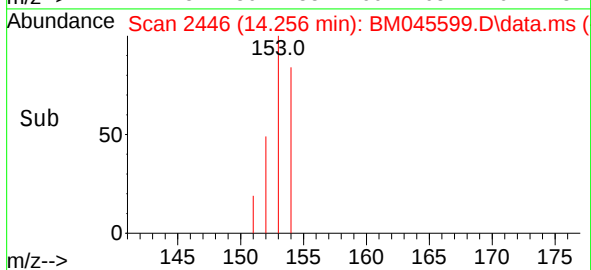
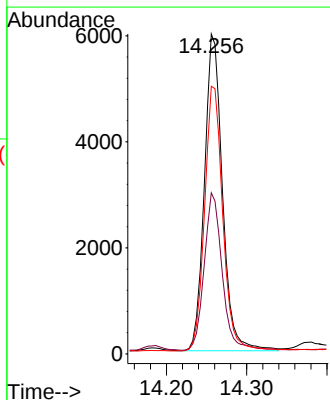
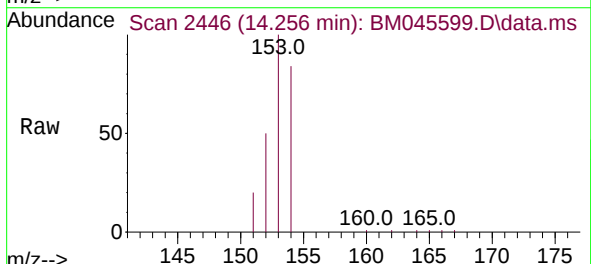
Manual Integrations  
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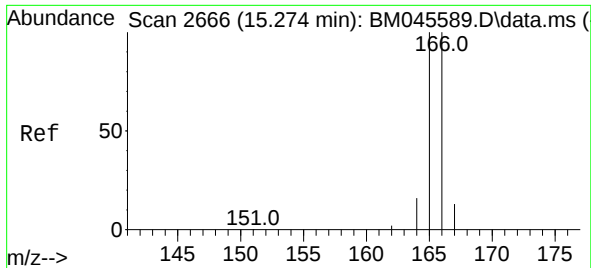
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024



#11  
Acenaphthene  
Concen: 2.249 ng/ul  
RT: 14.256 min Scan# 2446  
Delta R.T. -0.014 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

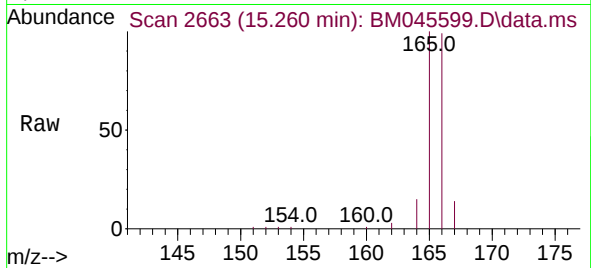
Tgt Ion:153 Resp: 9340  
Ion Ratio Lower Upper  
153 100  
152 50.4 43.4 65.2  
154 83.7 69.0 103.6





#12  
Fluorene  
Concen: 2.580 ng/ul  
RT: 15.260 min Scan# 20  
Delta R.T. -0.018 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

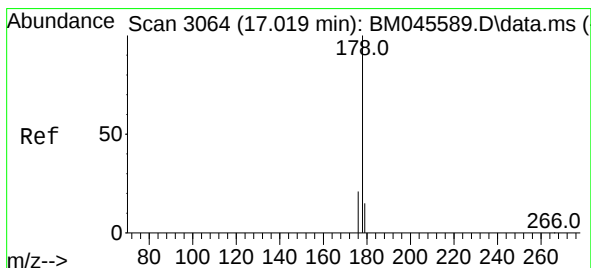
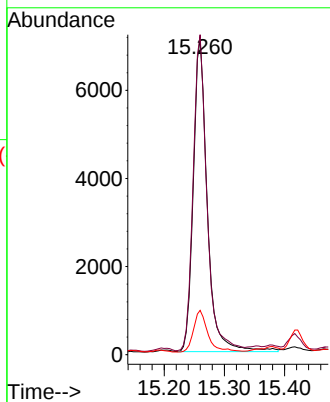
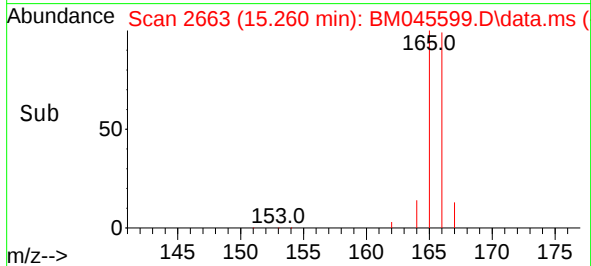
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion:166 Resp: 11460  
Ion Ratio Lower Upper  
166 100  
165 101.4 82.2 123.2  
167 14.0 14.8 22.2

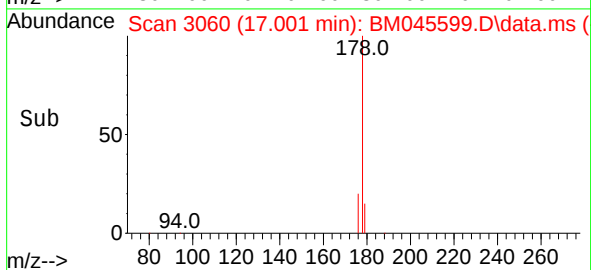
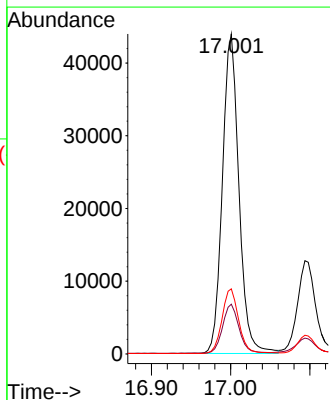
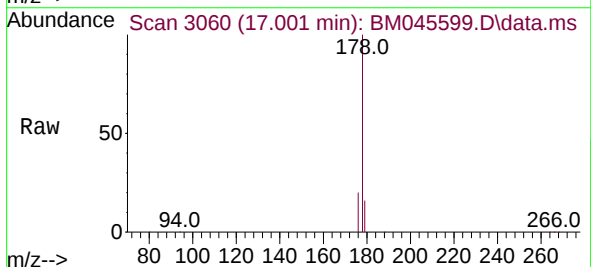
Manual Integrations  
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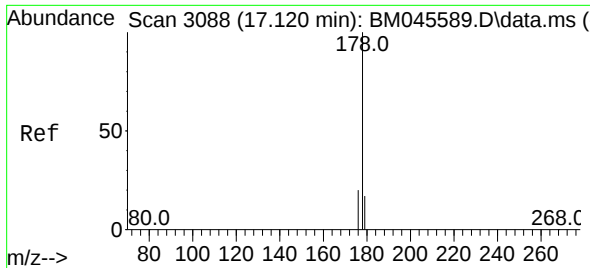
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024



#15  
Phenanthrene  
Concen: 10.137 ng/ul  
RT: 17.001 min Scan# 3060  
Delta R.T. -0.021 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

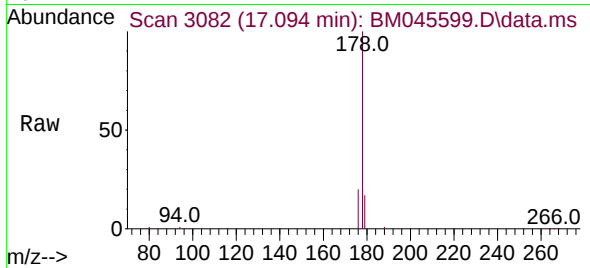
Tgt Ion:178 Resp: 63858  
Ion Ratio Lower Upper  
178 100  
179 15.5 15.4 23.2  
176 20.3 19.0 28.4





#16  
 Anthracene  
 Concen: 3.719 ng/ul  
 RT: 17.094 min Scan# 3088  
 Delta R.T. -0.025 min  
 Lab File: BM045599.D  
 Acq: 26 Apr 2024 22:07

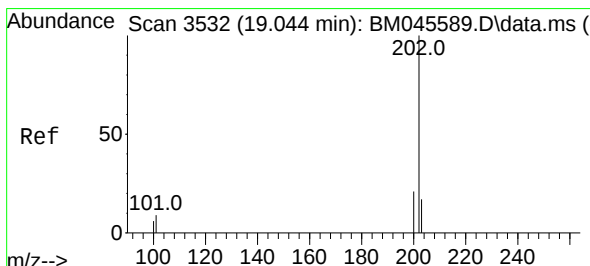
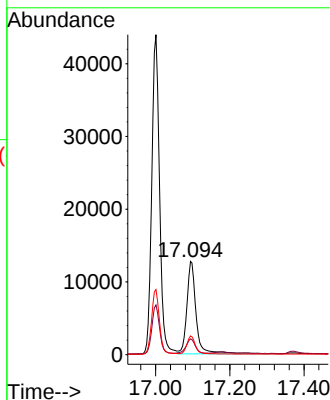
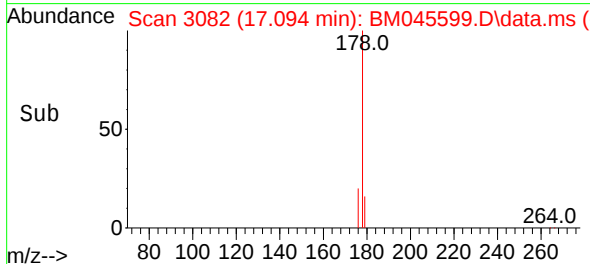
Instrument :  
 BNA\_M  
 ClientSampleId :  
 E1CX4MS



Tgt Ion:178 Resp: 2191  
 Ion Ratio Lower Upper  
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 179 16.9 17.8 26.6#  
 176 20.1 18.7 28.1

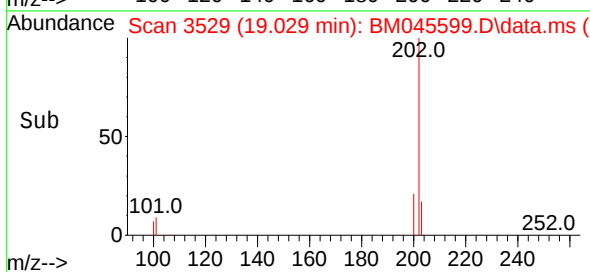
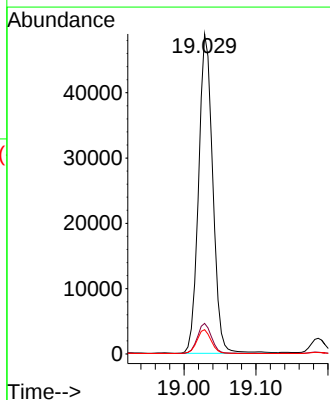
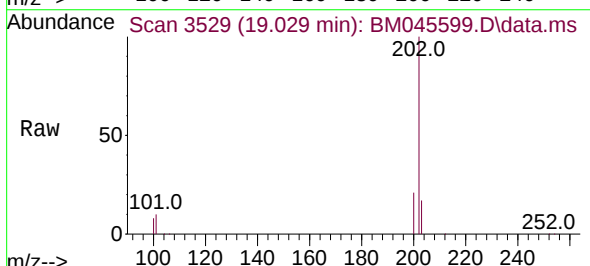
Manual Integrations  
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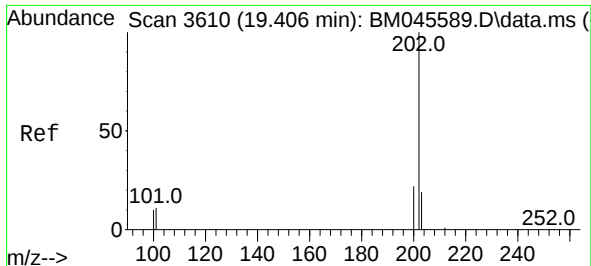
Reviewed By :Yogesh Patel 04/27/2024  
 Supervised By :mohammad ahmed 04/27/2024



#19  
 Fluoranthene  
 Concen: 7.459 ng/ul  
 RT: 19.029 min Scan# 3529  
 Delta R.T. -0.019 min  
 Lab File: BM045599.D  
 Acq: 26 Apr 2024 22:07

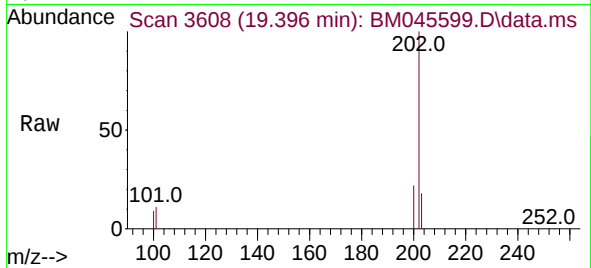
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 Ion Ratio Lower Upper  
 202 100  
 101 9.5 11.2 16.8#  
 100 7.6 9.1 13.7#





#20  
Pyrene  
Concen: 5.414 ng/ul  
RT: 19.396 min Scan# 3610  
Delta R.T. -0.019 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

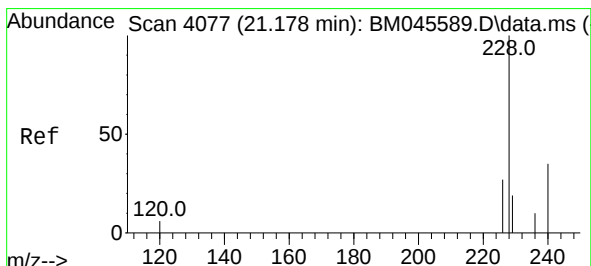
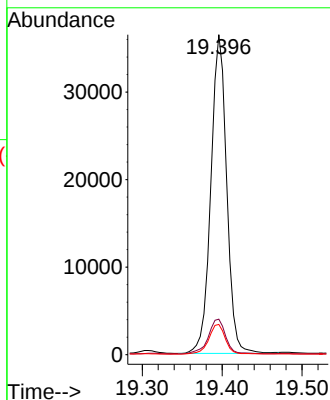
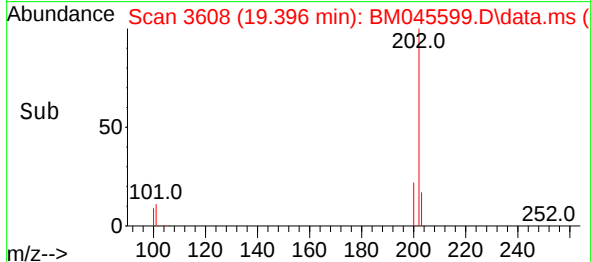
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion:202 Resp: 50073  
Ion Ratio Lower Upper  
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100 9.5 10.6 15.8

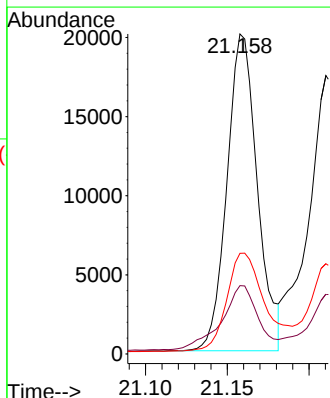
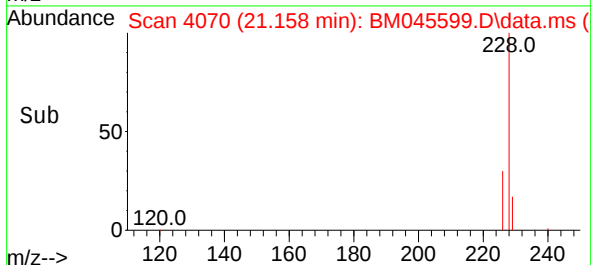
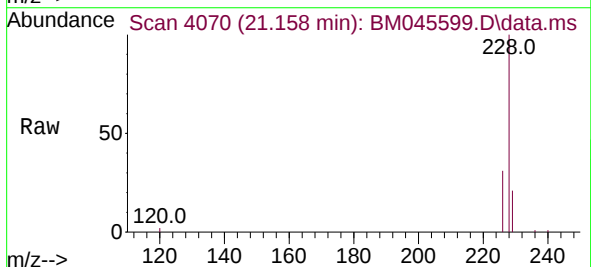
Manual Integrations  
APPROVED

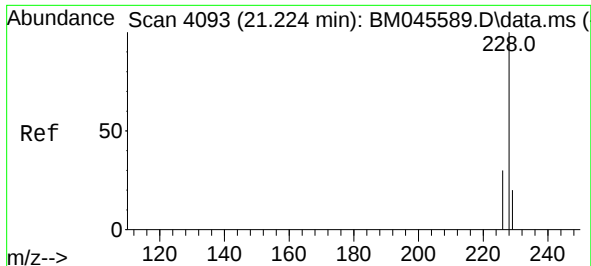
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024



#21  
Benzo(a)anthracene  
Concen: 4.159 ng/ul  
RT: 21.158 min Scan# 4070  
Delta R.T. -0.024 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

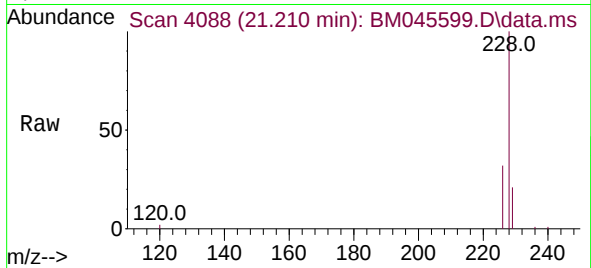
Tgt Ion:228 Resp: 25925  
Ion Ratio Lower Upper  
228 100  
229 21.3 19.4 29.2  
226 31.4 26.3 39.5





#22  
Chrysene  
Concen: 2.677 ng/ul  
RT: 21.210 min Scan# 4088  
Delta R.T. -0.018 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

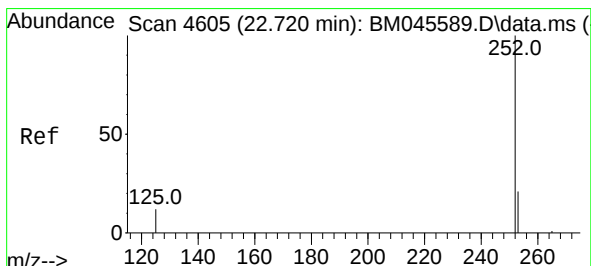
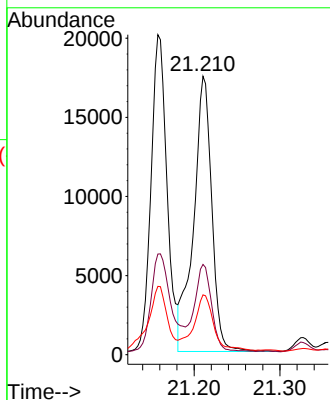
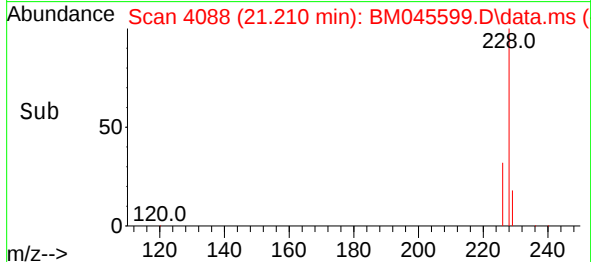
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



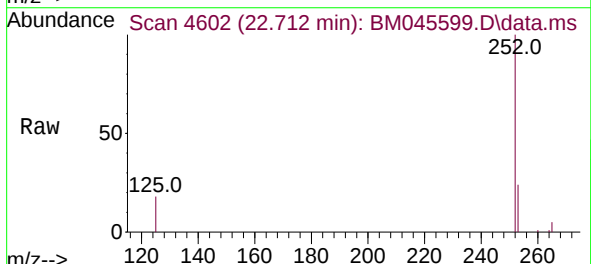
Tgt Ion:228 Resp: 2565  
Ion Ratio Lower Upper  
228 100  
226 32.4 26.3 39.5  
229 21.5 17.8 26.8

Manual Integrations  
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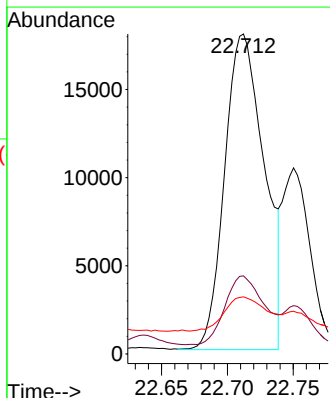
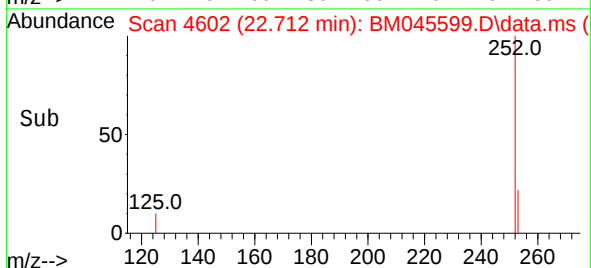
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024

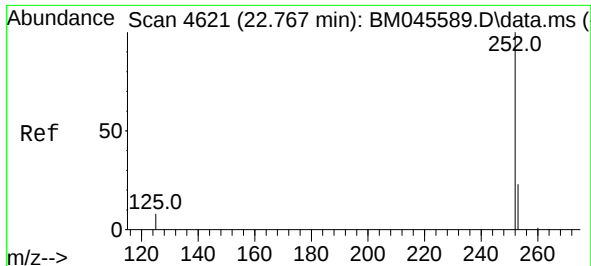


#24  
Benzo(b)fluoranthene  
Concen: 3.892 ng/ul m  
RT: 22.712 min Scan# 4602  
Delta R.T. -0.018 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07



Tgt Ion:252 Resp: 37574  
Ion Ratio Lower Upper  
252 100  
253 24.4 0.0 63.4  
125 17.9 0.0 36.8





#25

Benzo(k)fluoranthene

Concen: 1.227 ng/ul m

RT: 22.750 min Scan# 4

Delta R.T. -0.021 min

Lab File: BM045599.D

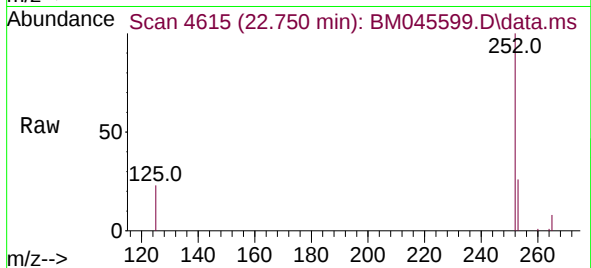
Acq: 26 Apr 2024 22:07

Instrument :

BNA\_M

ClientSampleId :

E1CX4MS



Tgt Ion:252 Resp: 1496

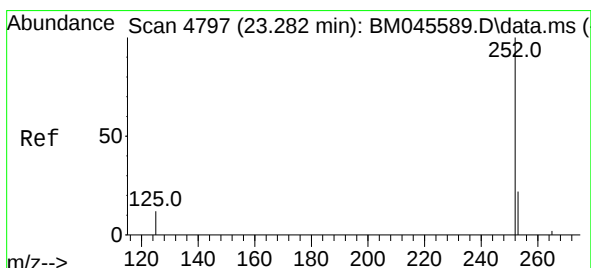
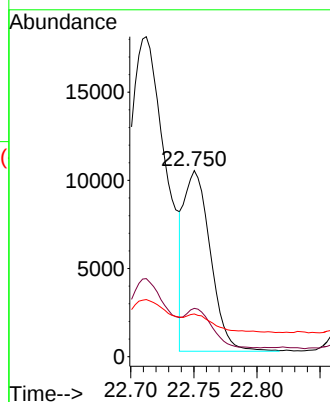
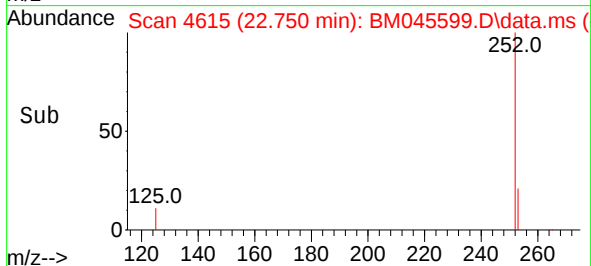
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.0  | 25.4  | 38.0  |
| 125 | 22.9  | 14.8  | 22.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/27/2024

Supervised By :mohammad ahmed 04/27/2024



#26

Benzo(a)pyrene

Concen: 2.436 ng/ul

RT: 23.268 min Scan# 4792

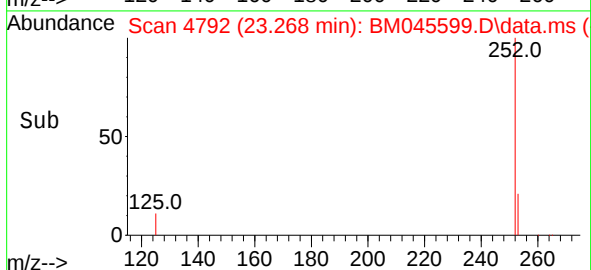
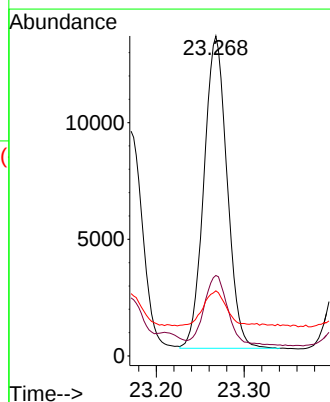
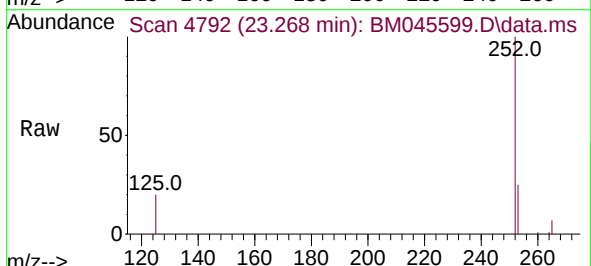
Delta R.T. -0.024 min

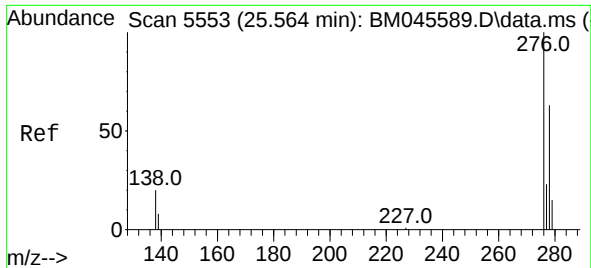
Lab File: BM045599.D

Acq: 26 Apr 2024 22:07

Tgt Ion:252 Resp: 24390

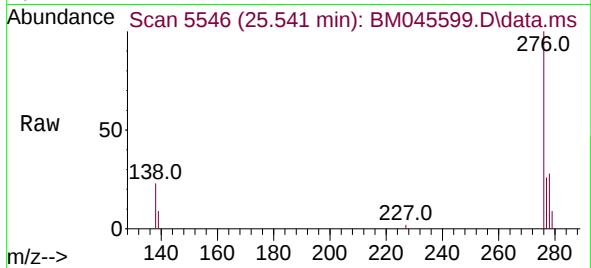
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.2  | 31.6  | 47.4  |
| 125 | 20.3  | 19.5  | 29.3  |





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.539 ng/ul  
RT: 25.541 min Scan# 5546  
Delta R.T. -0.030 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

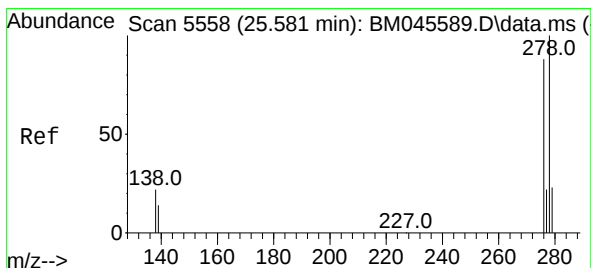
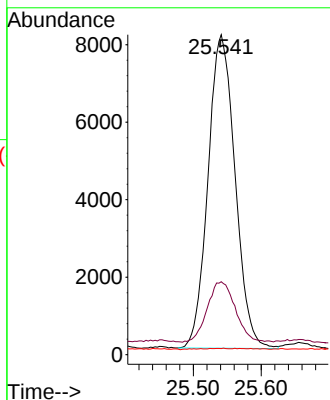
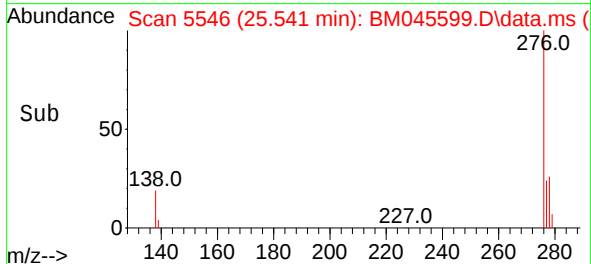
Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion:276 Resp: 22400  
Ion Ratio Lower Upper  
276 100  
138 20.1 19.8 29.6  
227 0.1 0.2 0.2

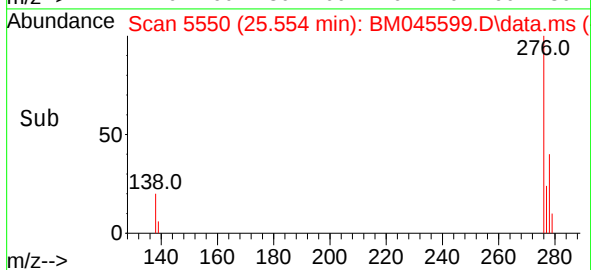
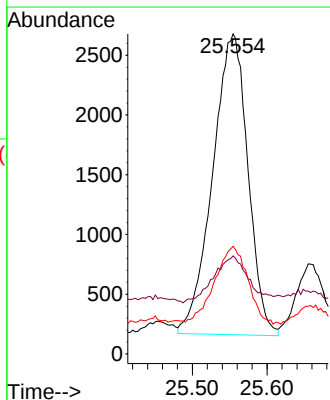
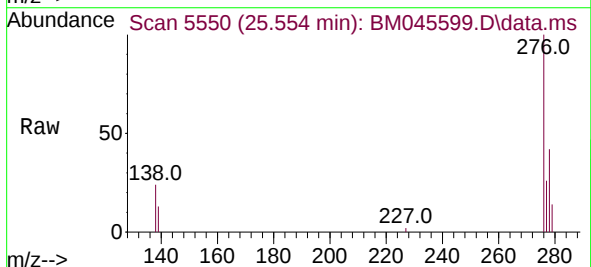
Manual Integrations  
APPROVED

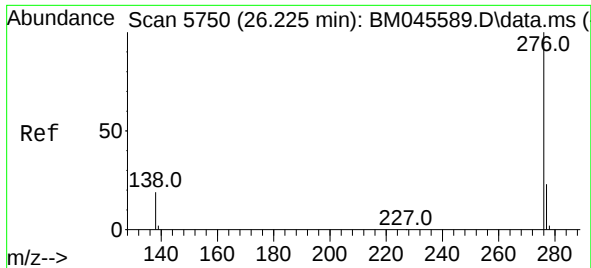
Reviewed By :Yogesh Patel 04/27/2024  
Supervised By :mohammad ahmed 04/27/2024



#28  
Dibenzo(a,h)anthracene  
Concen: 0.716 ng/ul  
RT: 25.554 min Scan# 5550  
Delta R.T. -0.034 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

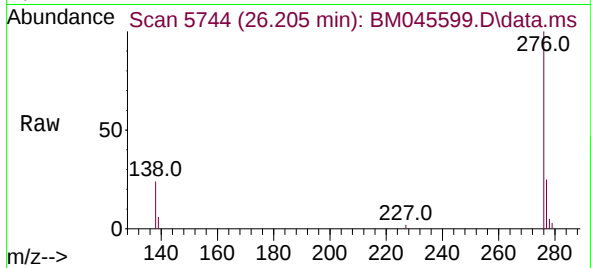
Tgt Ion:278 Resp: 8263  
Ion Ratio Lower Upper  
278 100  
139 30.7 19.0 28.6#  
279 33.7 29.4 44.2





#29  
Benzo(g,h,i)perylene  
Concen: 1.596 ng/ul  
RT: 26.205 min Scan# 51  
Delta R.T. -0.030 min  
Lab File: BM045599.D  
Acq: 26 Apr 2024 22:07

Instrument :  
BNA\_M  
ClientSampleId :  
E1CX4MS



Tgt Ion: 276 Resp: 20879  
Ion Ratio Lower Upper  
276 100  
138 24.1 20.8 31.2  
277 25.1 21.8 32.8

Manual Integrations  
APPROVED

Reviewed By : Yogesh Patel 04/27/2024  
Supervised By : mohammad ahmed 04/27/2024

