

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
 Data File : BM041845.D  
 Acq On : 14 Sep 2023 00:19  
 Operator : MA/JU  
 Sample : 04235-08DL 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYJ9DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/14/2023  
 Supervised By :mohammad ahmed 09/15/2023

Quant Time: Sep 14 03:39:07 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM091323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 13 16:15:23 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.971  | 152  | 11055    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.785 | 136  | 27867    | 0.400 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.615 | 164  | 15136    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.367 | 188  | 28435    | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.542 | 240  | 14373    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.968 | 264  | 13460    | 0.400 | ng/ul  | # 0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.381  | 96   | 4488     | 0.319 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.368 | 152  | 1392     | 0.037 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.390 | 212  | 1329     | 0.027 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.840 | 128  | 17616    | 0.188 | ng/ul  | 96       |
| 7) 2-Methylnaphthalene      | 12.440 | 142  | 106960   | 1.895 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.660 | 142  | 105447   | 1.831 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.328 | 152  | 5237     | 0.055 | ng/ul# | 1        |
| 11) Acenaphthene            | 14.689 | 153  | 5329     | 0.073 | ng/ul# | 38       |
| 15) Phenanthrene            | 17.409 | 178  | 213872   | 1.723 | ng/ul  | 99       |
| 16) Anthracene              | 17.502 | 178  | 3759m    | 0.035 | ng/ul  |          |
| 19) Fluoranthene            | 19.417 | 202  | 219310   | 1.970 | ng/ul  | 99       |
| 20) Pyrene                  | 19.785 | 202  | 146514   | 1.257 | ng/ul  | 97       |
| 21) Benzo(a)anthracene      | 21.524 | 228  | 20671    | 0.218 | ng/ul# | 79       |
| 22) Chrysene                | 21.577 | 228  | 87757    | 0.904 | ng/ul# | 94       |
| 24) Benzo(b)fluoranthene    | 23.219 | 252  | 82714    | 0.864 | ng/ul# | 1        |
| 25) Benzo(k)fluoranthene    | 23.266 | 252  | 26390m   | 0.299 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.857 | 252  | 7689     | 0.105 | ng/ul# | 1        |
| 27) Indeno(1,2,3-cd)pyrene  | 26.471 | 276  | 29256    | 0.261 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.488 | 278  | 8455     | 0.102 | ng/ul# | 1        |
| 29) Benzo(g,h,i)perylene    | 27.259 | 276  | 34376    | 0.362 | ng/ul# | 58       |
| -----                       |        |      |          |       |        |          |

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

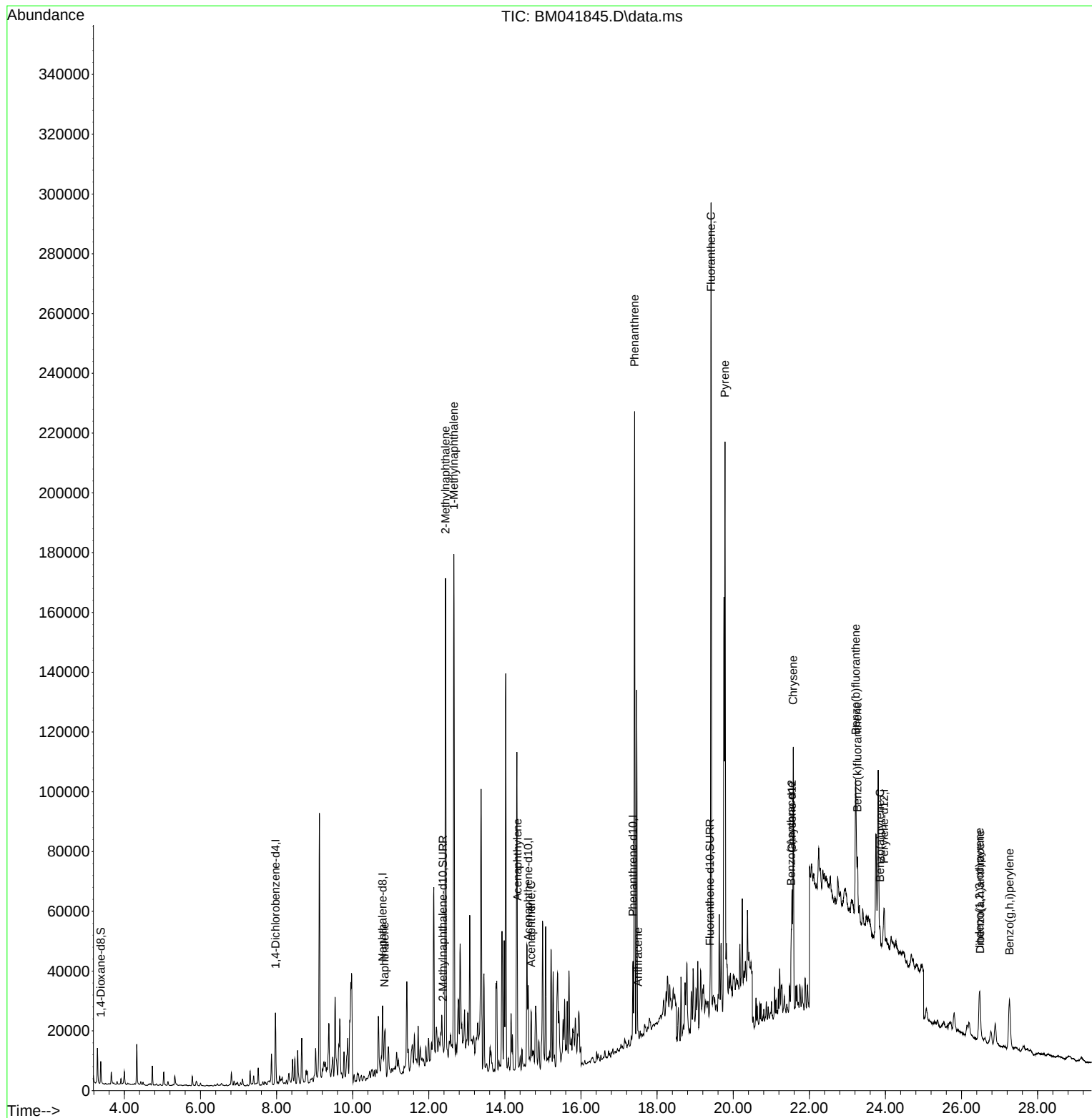
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM091323\  
Data File : BM041845.D  
Acq On : 14 Sep 2023 00:19  
Operator : MA/JU  
Sample : 04235-08DL 5X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

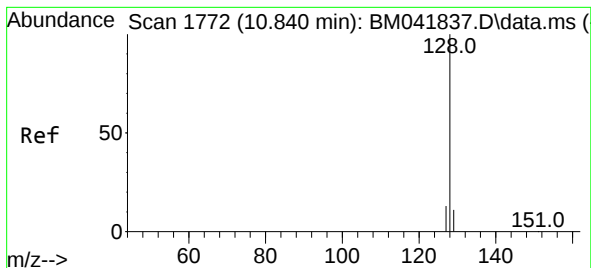
Instrument :  
BNA\_M  
ClientSampleId :  
EZYJ9DL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023

Quant Time: Sep 14 03:39:07 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM091323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 13 16:15:23 2023  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.188 ng/ul

RT: 10.840 min Scan# 1772

Delta R.T. -0.000 min

Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

Instrument :

BNA\_M

ClientSampleId :

EZYJ9DL

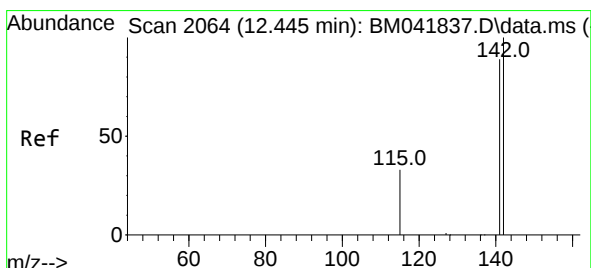
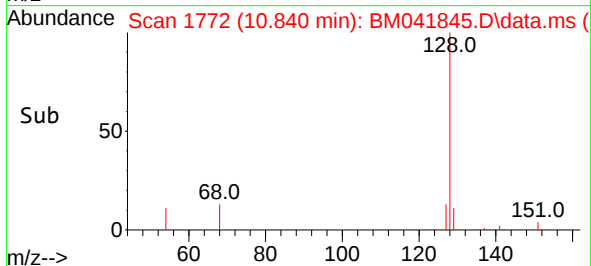
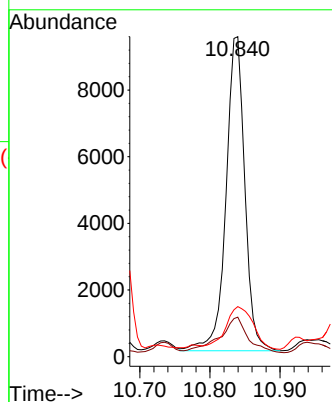
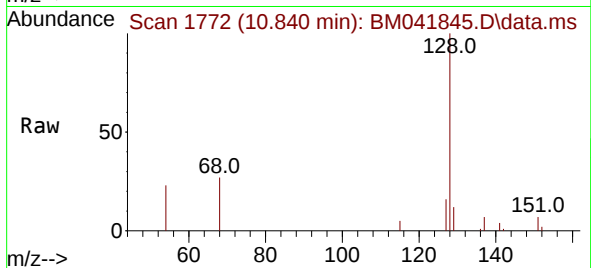
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 17610 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 12.4  | 9.5   | 14.3  |
| 127       | 15.7  | 10.7  | 16.1  |

Manual Integrations

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Supervised By :mohammad ahmed 09/15/2023



#7

2-Methylnaphthalene

Concen: 1.895 ng/ul

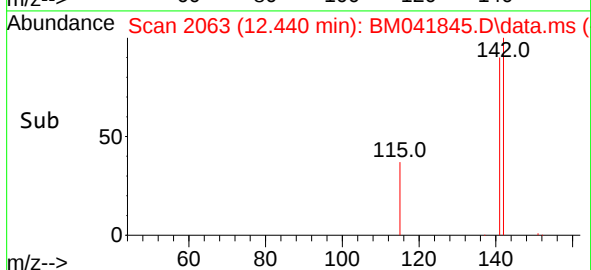
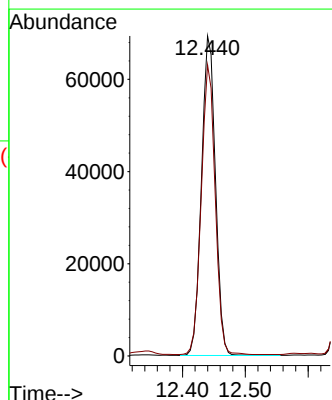
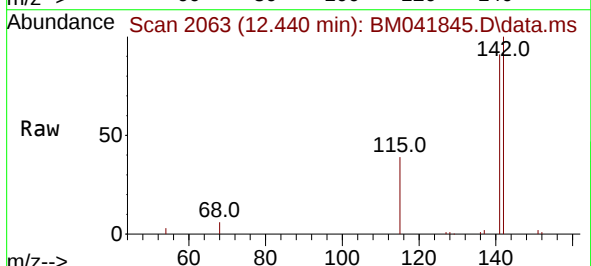
RT: 12.440 min Scan# 2063

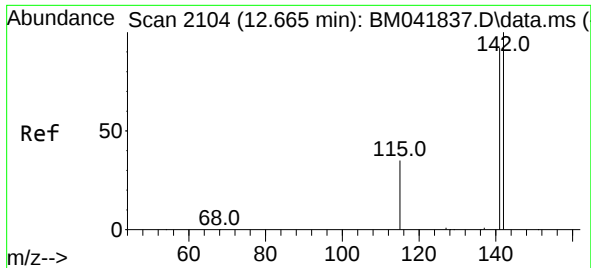
Delta R.T. -0.006 min

Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

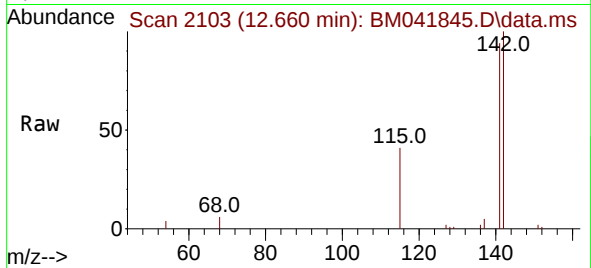
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 106960 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 90.6  | 72.1  | 108.1  |





#8  
1-Methylnaphthalene  
Concen: 1.831 ng/ul  
RT: 12.660 min Scan# 2104  
Delta R.T. -0.006 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

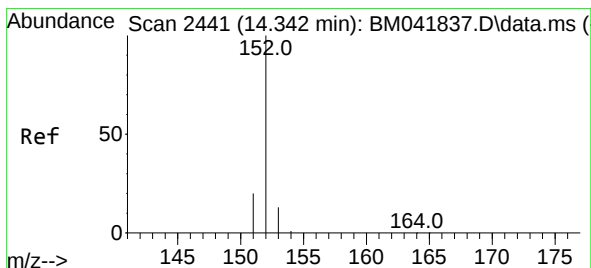
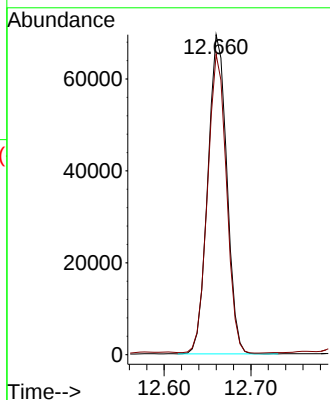
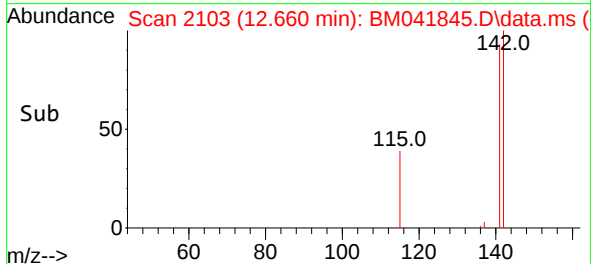
Instrument :  
BNA\_M  
ClientSampleId :  
EZYJ9DL



Tgt Ion:142 Resp: 10544  
Ion Ratio Lower Upper  
142 100  
141 93.3 74.3 111.5

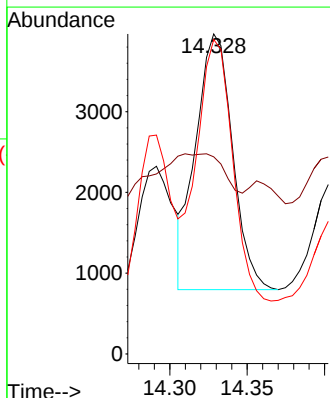
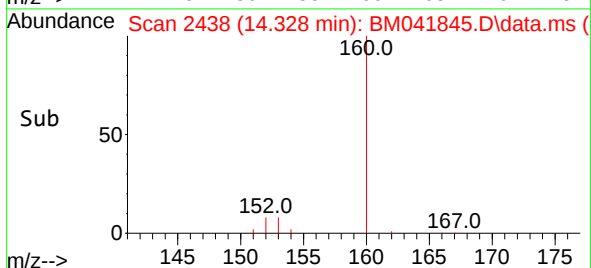
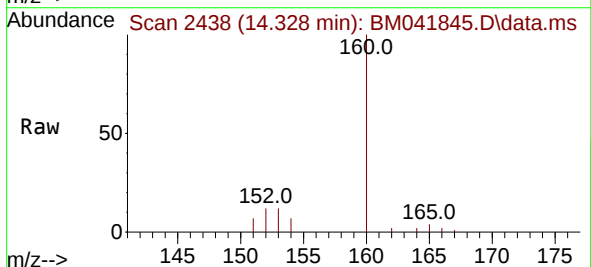
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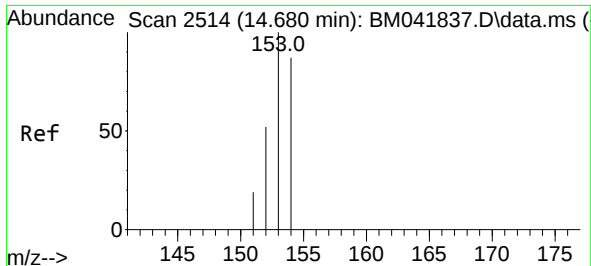
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#10  
Acenaphthylene  
Concen: 0.055 ng/ul  
RT: 14.328 min Scan# 2438  
Delta R.T. -0.014 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

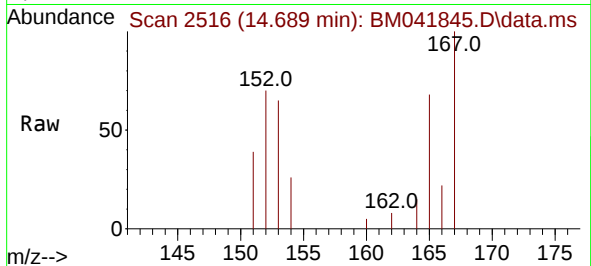
Tgt Ion:152 Resp: 5237  
Ion Ratio Lower Upper  
152 100  
151 61.6 16.3 24.5#  
153 98.2 10.9 16.3#





#11  
Acenaphthene  
Concen: 0.073 ng/u1  
RT: 14.689 min Scan# 2514  
Delta R.T. 0.009 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

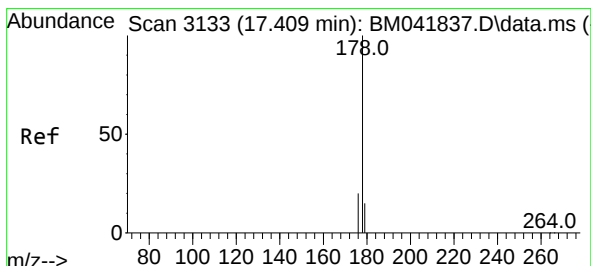
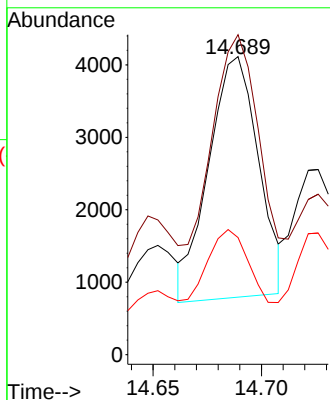
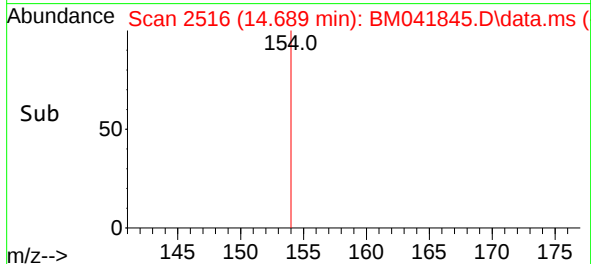
Instrument :  
BNA\_M  
ClientSampleId :  
EZYJ9DL



Tgt Ion:153 Resp: 5329  
Ion Ratio Lower Upper  
153 100  
152 107.3 41.5 62.3  
154 39.3 70.7 106.1

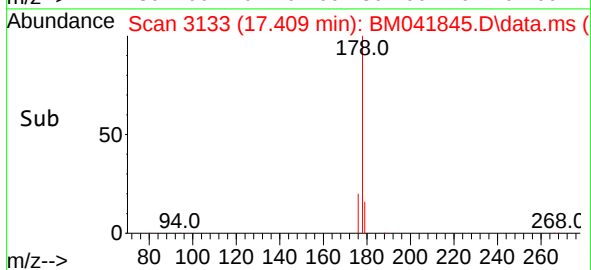
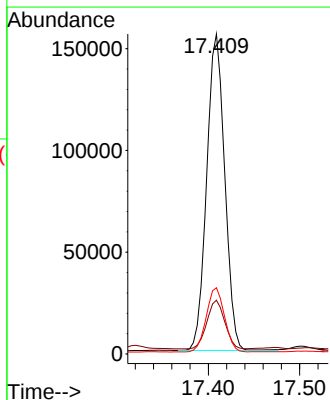
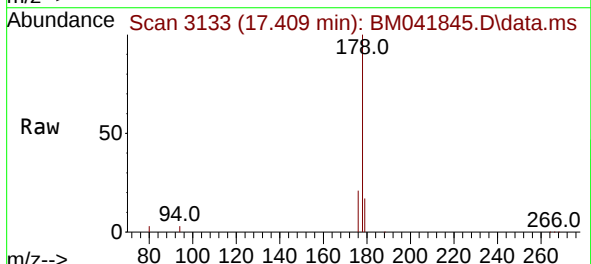
Manual Integrations  
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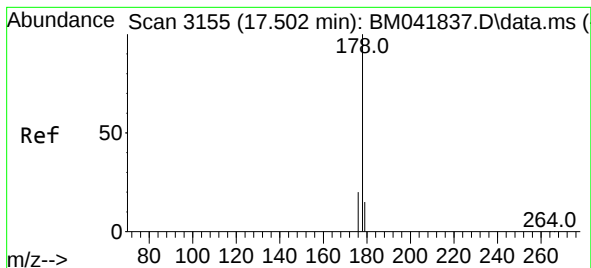
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#15  
Phenanthrene  
Concen: 1.723 ng/u1  
RT: 17.409 min Scan# 3133  
Delta R.T. -0.000 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

Tgt Ion:178 Resp: 213872  
Ion Ratio Lower Upper  
178 100  
179 16.8 12.6 19.0  
176 20.7 16.6 25.0





#16

Anthracene

Concen: 0.035 ng/ul m

RT: 17.502 min Scan# 3155

Delta R.T. -0.000 min

Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

Instrument :

BNA\_M

ClientSampleId :

EZYJ9DL

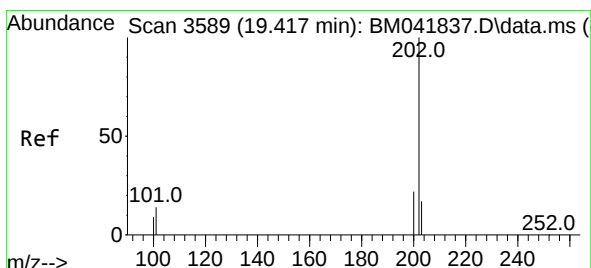
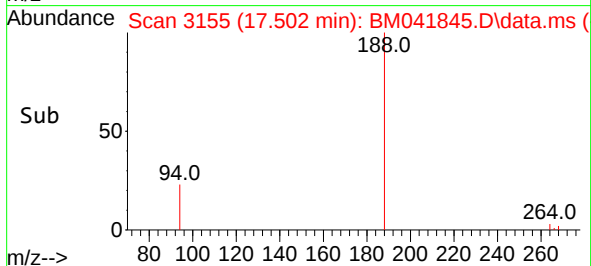
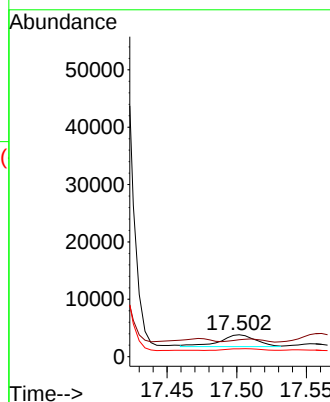
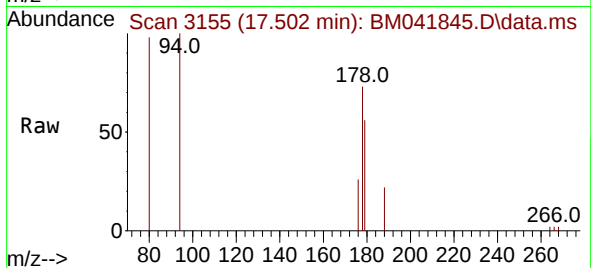
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 3759      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 77.0  | 12.7 19.1 |
| 176         | 35.9  | 16.1 24.1 |

Manual Integrations

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Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/15/2023



#19

Fluoranthene

Concen: 1.970 ng/ul

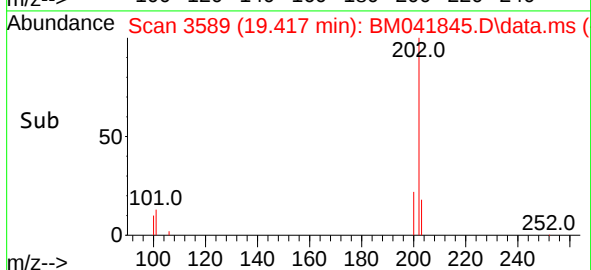
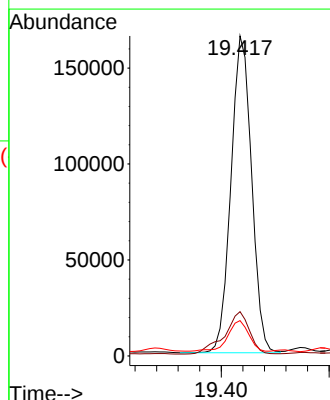
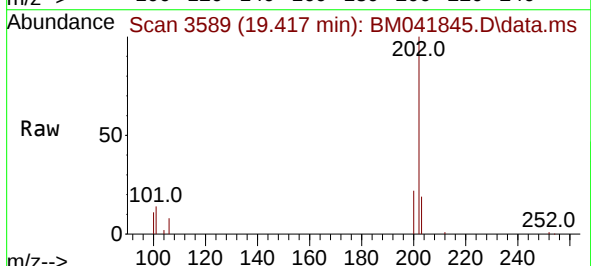
RT: 19.417 min Scan# 3589

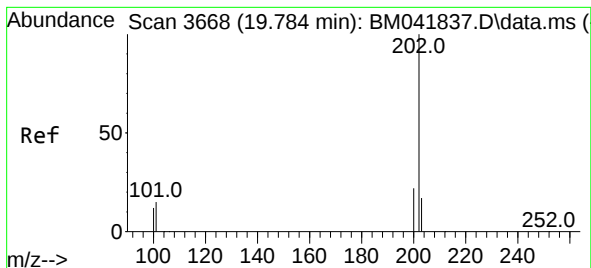
Delta R.T. -0.000 min

Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 219310    |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 101         | 13.8  | 11.0 16.6 |
| 100         | 11.1  | 8.2 12.4  |





#20

Pyrene

Concen: 1.257 ng/ul

RT: 19.785 min Scan# 3668

Delta R.T. -0.000 min

Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

Instrument :

BNA\_M

ClientSampleId :

EZYJ9DL

Tgt Ion:202 Resp: 146514

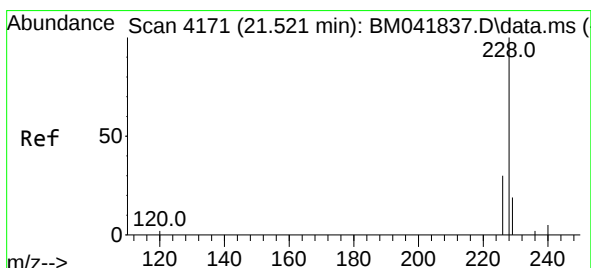
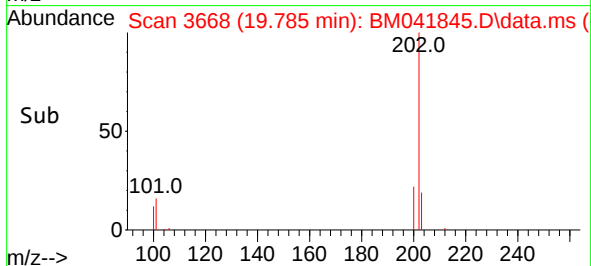
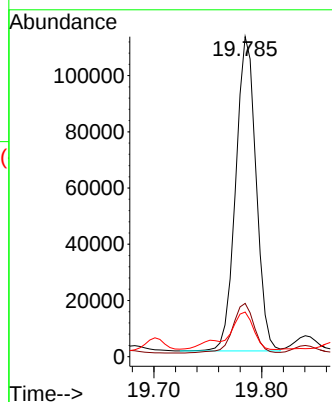
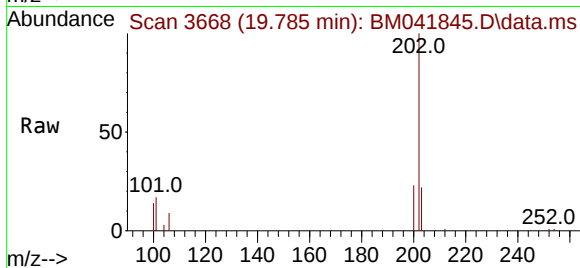
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 16.7  | 12.6  | 19.0  |
| 100 | 14.0  | 9.9   | 14.9  |

Manual Integrations

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Supervised By :mohammad ahmed 09/15/2023



#21

Benzo(a)anthracene

Concen: 0.218 ng/ul

RT: 21.524 min Scan# 4172

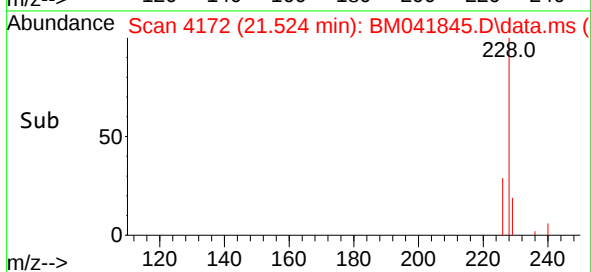
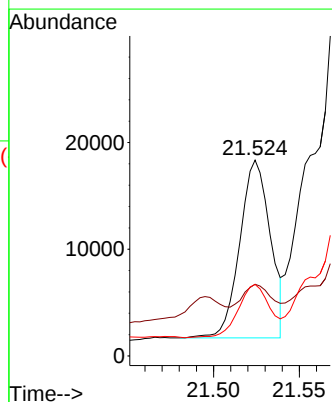
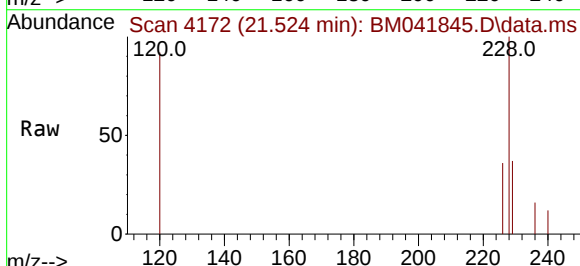
Delta R.T. 0.003 min

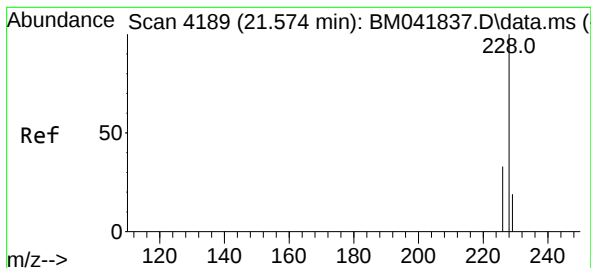
Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

Tgt Ion:228 Resp: 20671

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 36.6  | 15.8  | 23.8# |
| 226 | 36.5  | 24.3  | 36.5# |





#22

Chrysene

Concen: 0.904 ng/ul

RT: 21.577 min Scan# 41

Delta R.T. -0.000 min

Lab File: BM041845.D

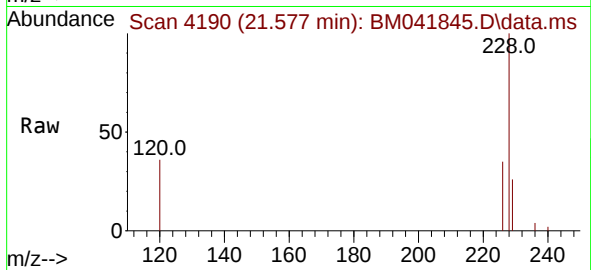
Acq: 14 Sep 2023 00:19

Instrument :

BNA\_M

ClientSampleId :

EZYJ9DL



Tgt Ion:228 Resp: 8775

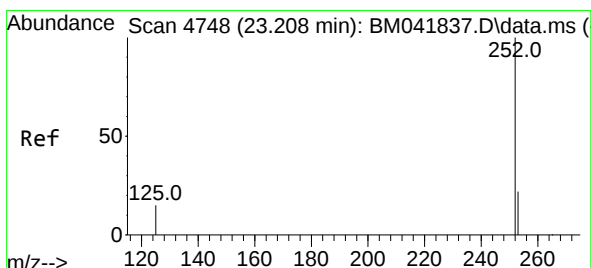
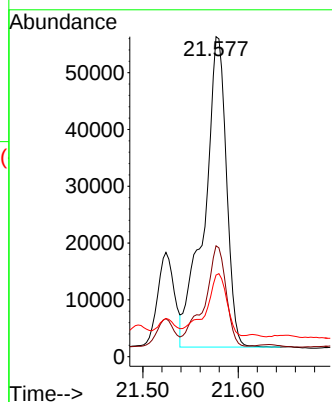
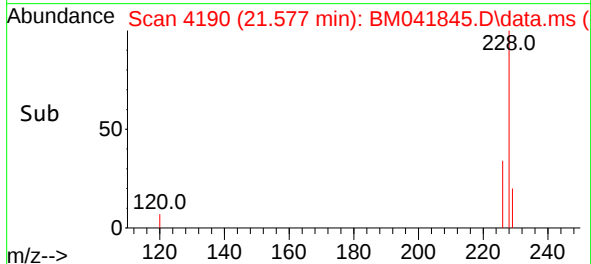
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 34.7  | 27.0  | 40.4  |
| 229 | 25.5  | 15.7  | 23.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/14/2023

Supervised By :mohammad ahmed 09/15/2023



#24

Benzo(b)fluoranthene

Concen: 0.864 ng/ul

RT: 23.219 min Scan# 4752

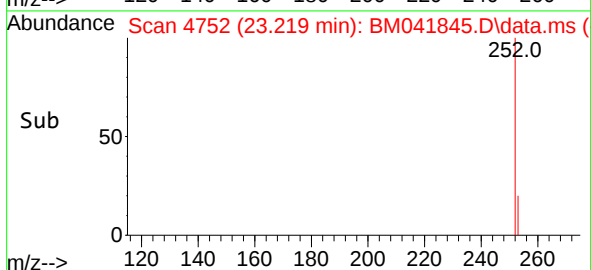
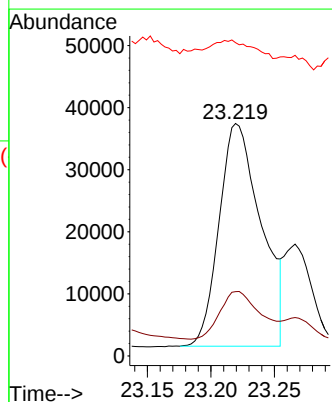
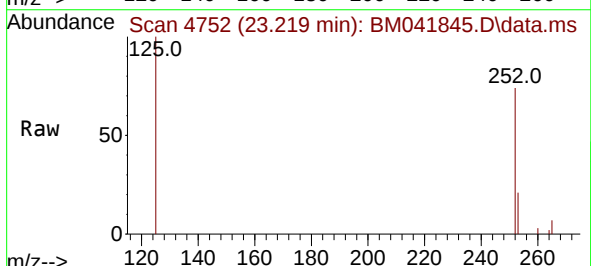
Delta R.T. 0.012 min

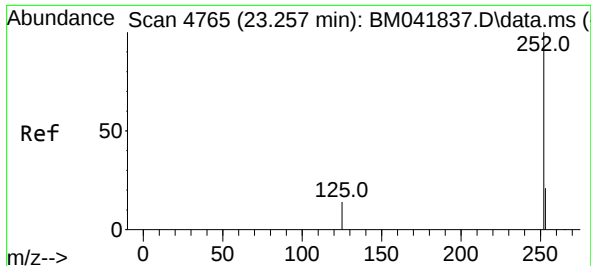
Lab File: BM041845.D

Acq: 14 Sep 2023 00:19

Tgt Ion:252 Resp: 82714

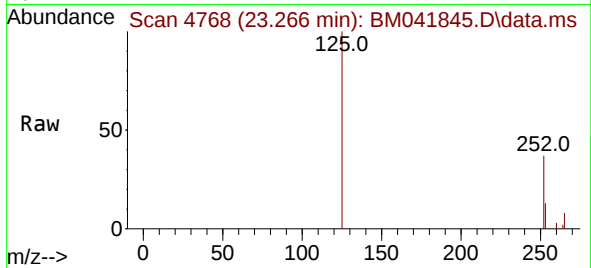
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 27.7  | 0.0   | 51.0  |
| 125 | 134.8 | 0.0   | 39.8  |





#25  
Benzo(k)fluoranthene  
Concen: 0.299 ng/ul m  
RT: 23.266 min Scan# 4765  
Delta R.T. 0.006 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

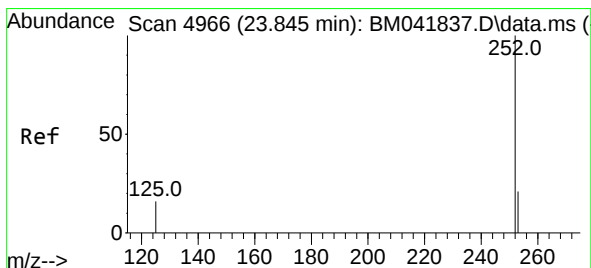
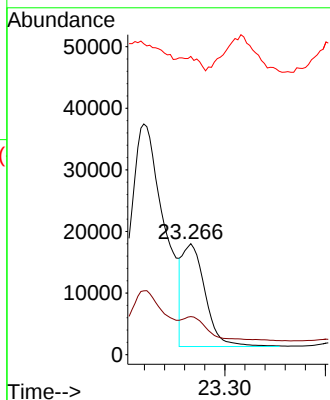
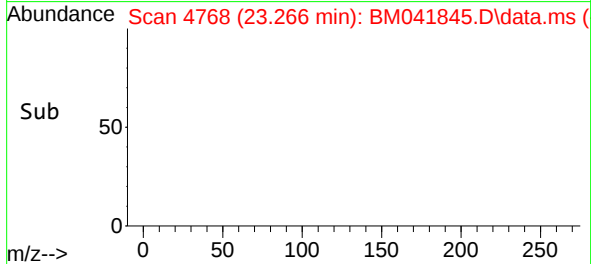
Instrument :  
BNA\_M  
ClientSampleId :  
EZYJ9DL



Tgt Ion:252 Resp: 26390  
Ion Ratio Lower Upper  
252 100  
253 34.3 20.2 30.2#  
125 268.6 15.8 23.8#

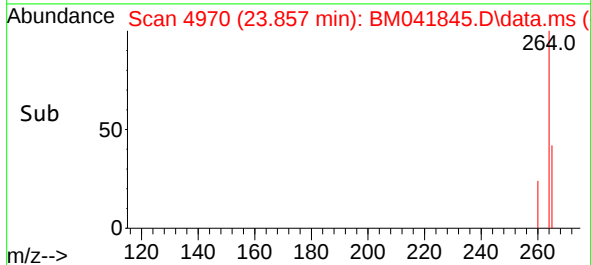
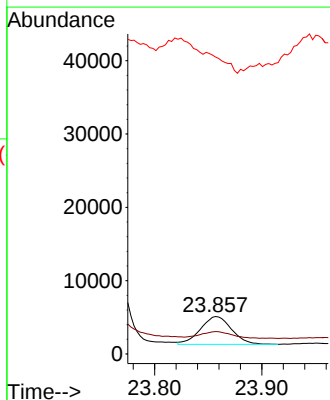
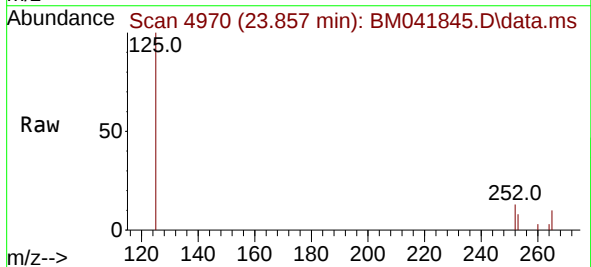
Manual Integrations  
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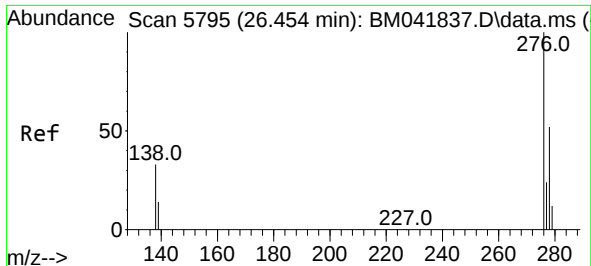
Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023



#26  
Benzo(a)pyrene  
Concen: 0.105 ng/ul  
RT: 23.857 min Scan# 4970  
Delta R.T. 0.012 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

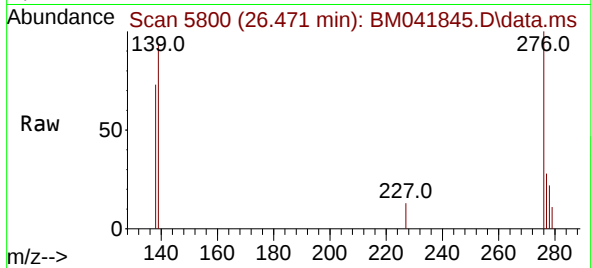
Tgt Ion:252 Resp: 7689  
Ion Ratio Lower Upper  
252 100  
253 59.6 21.8 32.8#  
125 791.4 18.8 28.2#





#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.261 ng/ul  
 RT: 26.471 min Scan# 5800  
 Delta R.T. 0.017 min  
 Lab File: BM041845.D  
 Acq: 14 Sep 2023 00:19

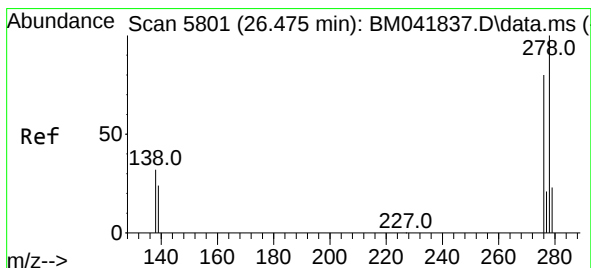
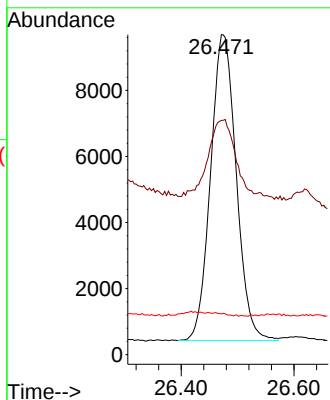
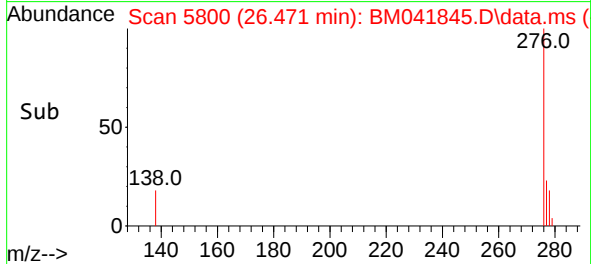
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EZYJ9DL



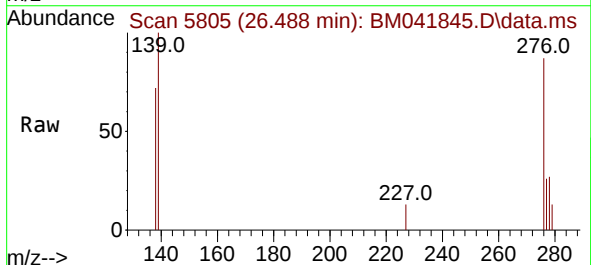
Tgt Ion: 276 Resp: 29250  
 Ion Ratio Lower Upper  
 276 100  
 138 32.6 27.7 41.5  
 227 0.0 0.1 0.1

Manual Integrations  
 APPROVED

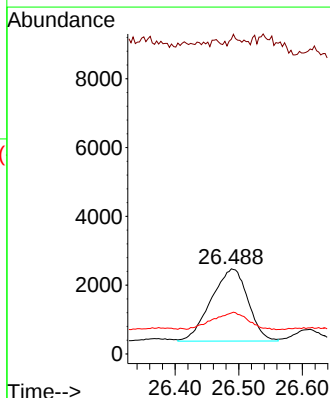
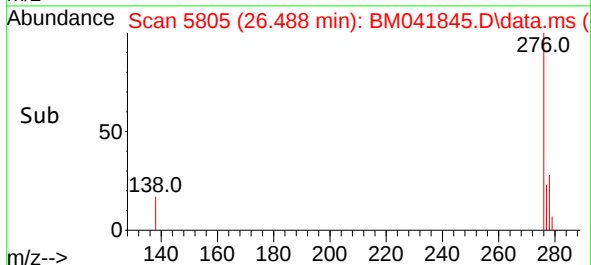
Reviewed By : Yogesh Patel 09/14/2023  
 Supervised By : mohammad ahmed 09/15/2023

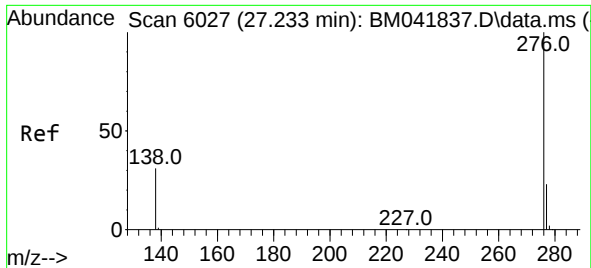


#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.102 ng/ul  
 RT: 26.488 min Scan# 5805  
 Delta R.T. 0.013 min  
 Lab File: BM041845.D  
 Acq: 14 Sep 2023 00:19



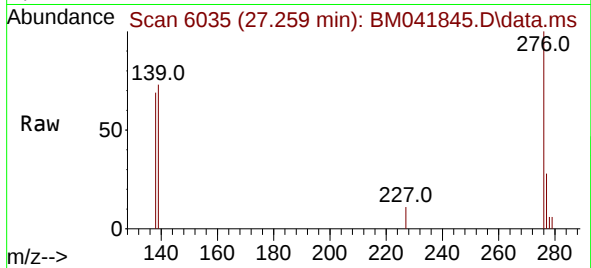
Tgt Ion: 278 Resp: 8455  
 Ion Ratio Lower Upper  
 278 100  
 139 369.6 20.9 31.3#  
 279 48.0 20.3 30.5#





#29  
Benzo(g,h,i)perylene  
Concen: 0.362 ng/ul  
RT: 27.259 min Scan# 6027  
Delta R.T. 0.023 min  
Lab File: BM041845.D  
Acq: 14 Sep 2023 00:19

Instrument :  
BNA\_M  
ClientSampleId :  
EZYJ9DL



Tgt Ion:276 Resp: 34370  
Ion Ratio Lower Upper  
276 100  
138 69.2 24.7 37.1  
277 27.5 19.3 28.9

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/14/2023  
Supervised By :mohammad ahmed 09/15/2023

