

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050123\  
 Data File : BM039786.D  
 Acq On : 01 May 2023 20:25  
 Operator : CG/JU  
 Sample : 02417-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW8Y1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/02/2023  
 Supervised By : Jagrut Upadhyay 05/02/2023

Quant Time: May 02 01:27:21 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM042723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 29 04:28:45 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|---------|--------|----------|
| -----                       |        |      |          |         |        |          |
| Internal Standards          |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.791  | 152  | 4204     | 0.400   | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.589 | 136  | 15836    | 0.400   | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.446 | 164  | 9478     | 0.400   | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.204 | 188  | 18623    | 0.400   | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.404 | 240  | 7917     | 0.400   | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.757 | 264  | 11714    | 0.400   | ng/ul  | # 0.01   |
|                             |        |      |          |         |        |          |
| System Monitoring Compounds |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8           | 3.188  | 96   | 10219    | 1.649   | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.190 | 152  | 3525     | 0.174   | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.238 | 212  | 5528     | 0.259   | ng/ul  | 0.00     |
|                             |        |      |          |         |        |          |
| Target Compounds            |        |      |          |         |        |          |
|                             |        |      |          |         |        | Qvalue   |
| 5) Naphthalene              | 10.639 | 128  | 76772    | 1.931   | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.261 | 142  | 51008    | 2.222   | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.481 | 142  | 48755    | 1.980   | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.168 | 152  | 139259   | 3.796   | ng/ul  | 99       |
| 11) Acenaphthene            | 14.511 | 153  | 82096    | 2.849   | ng/ul  | 98       |
| 12) Fluorene                | 15.501 | 166  | 134152   | 4.196   | ng/ul  | 98       |
| 14) Pentachlorophenol       | 16.875 | 266  | 266      | 0.066   | ng/ul  | 95       |
| 15) Phenanthrene            | 17.246 | 178  | 2072220  | 42.236  | ng/ul  | 99       |
| 16) Anthracene              | 17.335 | 178  | 463650   | 11.006  | ng/ul  | 97       |
| 19) Fluoranthene            | 19.276 | 202  | 3055906  | 108.194 | ng/ul  | 99       |
| 20) Pyrene                  | 19.638 | 202  | 2794675  | 91.624  | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.386 | 228  | 1361013  | 59.792  | ng/ul  | 98       |
| 22) Chrysene                | 21.439 | 228  | 1221282  | 47.410  | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.046 | 252  | 1604300  | 38.997  | ng/ul  | 92       |
| 25) Benzo(k)fluoranthene    | 23.087 | 252  | 491658m  | 11.737  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.657 | 252  | 1088832  | 29.479  | ng/ul# | 84       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.199 | 276  | 778071   | 16.660  | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 26.202 | 278  | 217709   | 6.006   | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 26.954 | 276  | 715326   | 17.577  | ng/ul  | 97       |

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

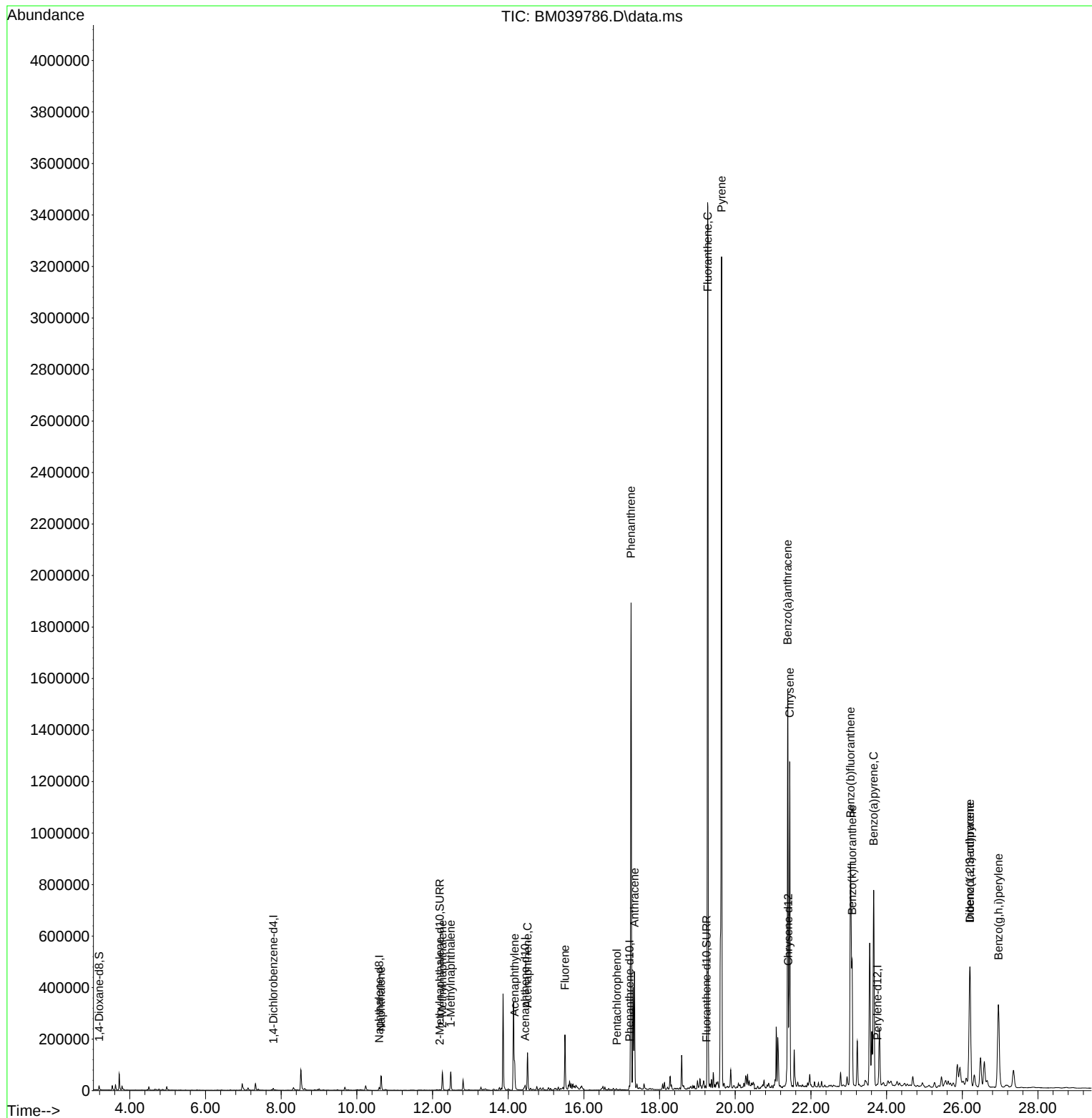
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050123\  
Data File : BM039786.D  
Acq On : 01 May 2023 20:25  
Operator : CG/JU  
Sample : 02417-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

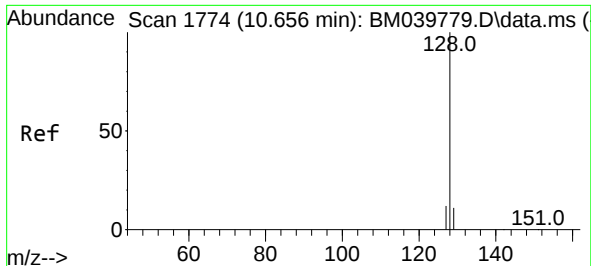
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1

Quant Time: May 02 01:27:21 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM042723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Apr 29 04:28:45 2023  
Response via : Initial Calibration

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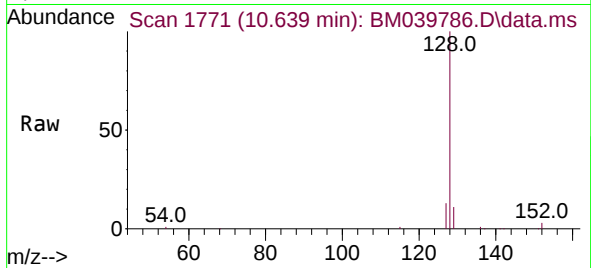
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023





#5  
Naphthalene  
Concen: 1.931 ng/ul  
RT: 10.639 min Scan# 1774  
Delta R.T. -0.016 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

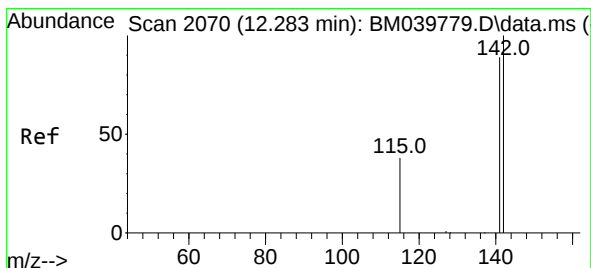
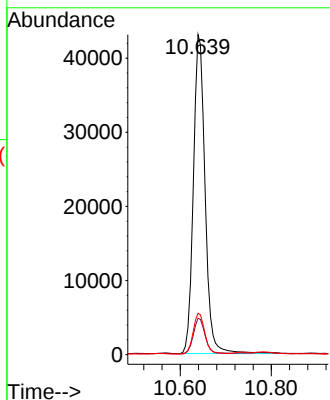
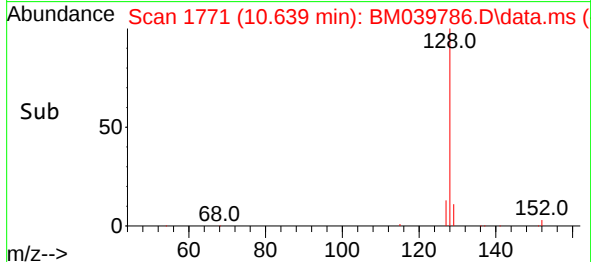
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1



Tgt Ion:128 Resp: 76772  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.8 14.6  
127 13.0 11.1 16.7

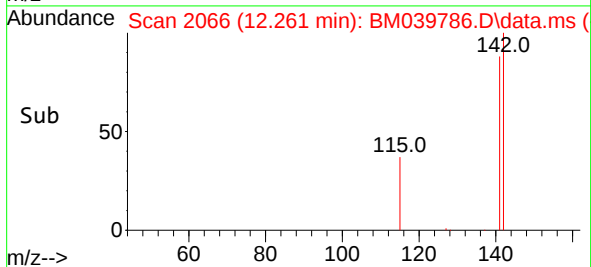
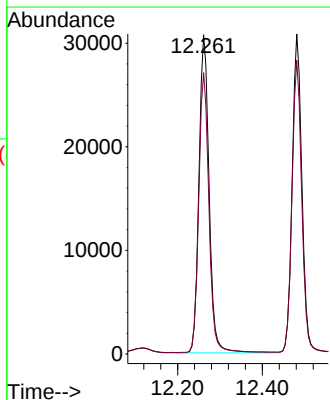
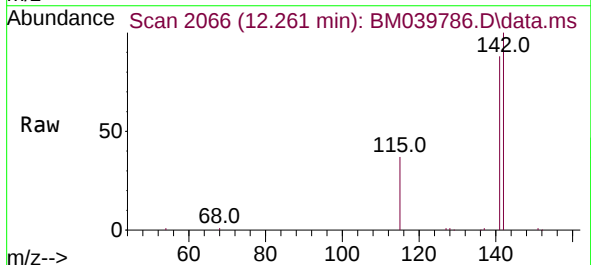
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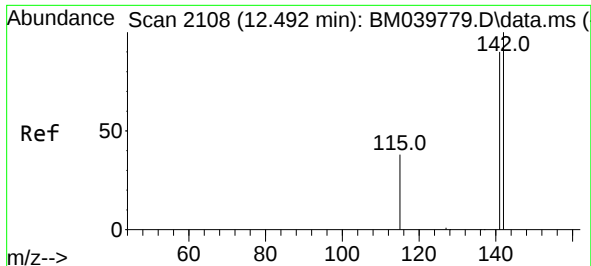
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#7  
2-Methylnaphthalene  
Concen: 2.222 ng/ul  
RT: 12.261 min Scan# 2066  
Delta R.T. -0.016 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

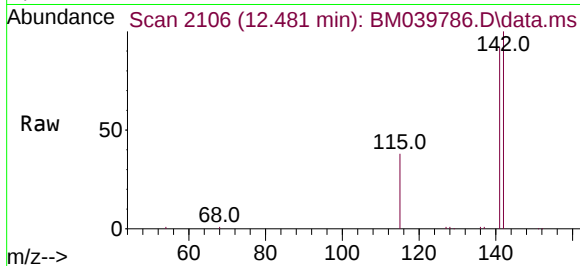
Tgt Ion:142 Resp: 51008  
Ion Ratio Lower Upper  
142 100  
141 88.0 73.2 109.8





#8  
1-Methylnaphthalene  
Concen: 1.980 ng/ul  
RT: 12.481 min Scan# 2106  
Delta R.T. -0.011 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

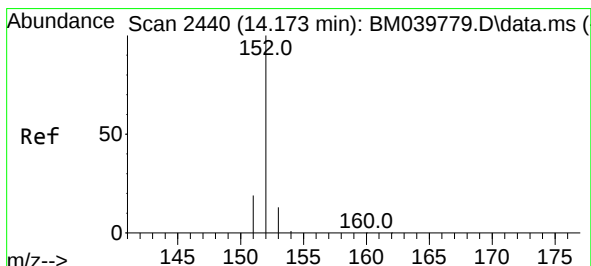
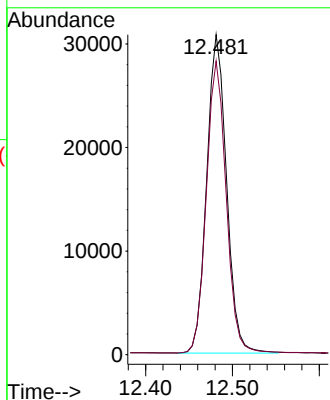
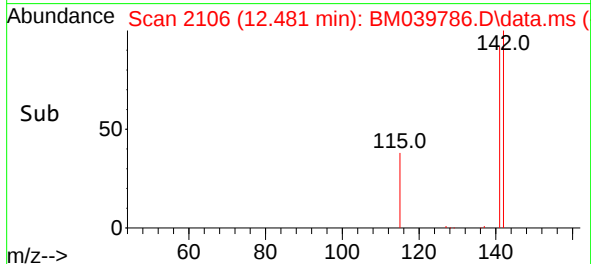
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1



Tgt Ion:142 Resp: 4875  
Ion Ratio Lower Upper  
142 100  
141 91.5 73.4 110.2

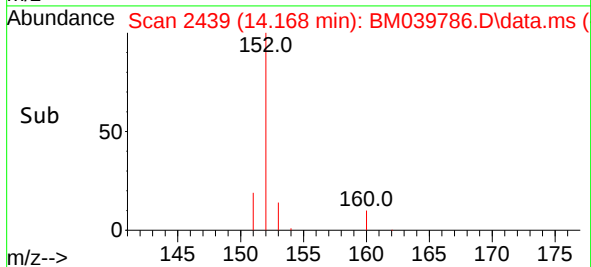
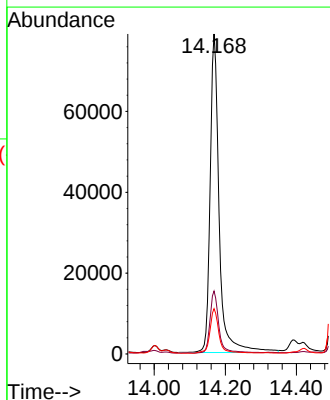
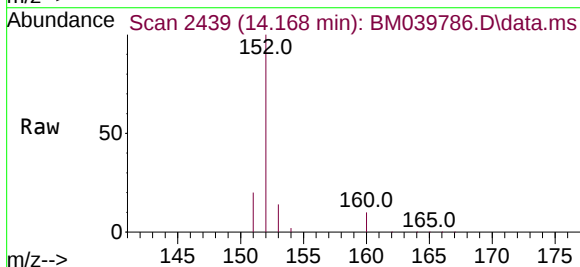
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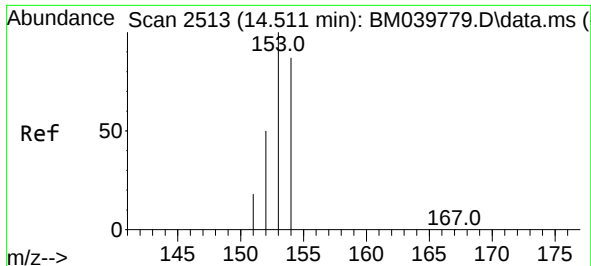
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#10  
Acenaphthylene  
Concen: 3.796 ng/ul  
RT: 14.168 min Scan# 2439  
Delta R.T. -0.005 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

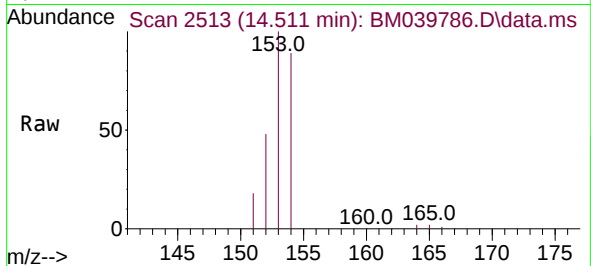
Tgt Ion:152 Resp: 139259  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.0 24.0  
153 14.2 11.2 16.8





#11  
Acenaphthene  
Concen: 2.849 ng/ul  
RT: 14.511 min Scan# 2513  
Delta R.T. 0.000 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

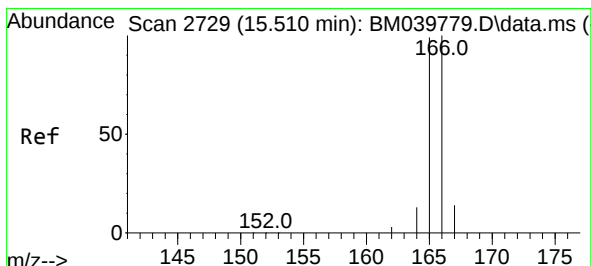
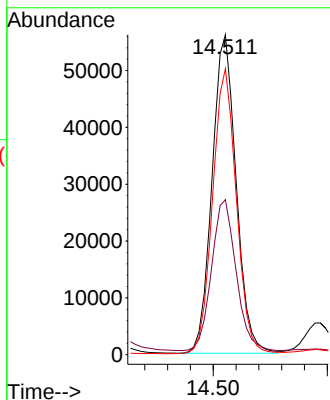
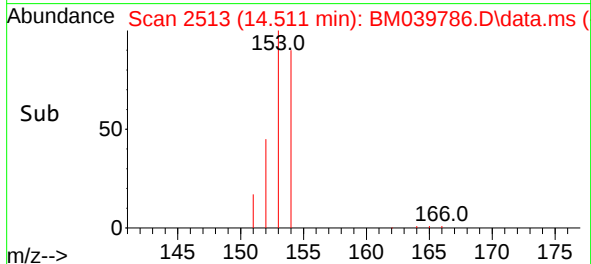
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1



Tgt Ion:153 Resp: 82090  
Ion Ratio Lower Upper  
153 100  
152 48.4 40.6 61.0  
154 89.3 71.9 107.9

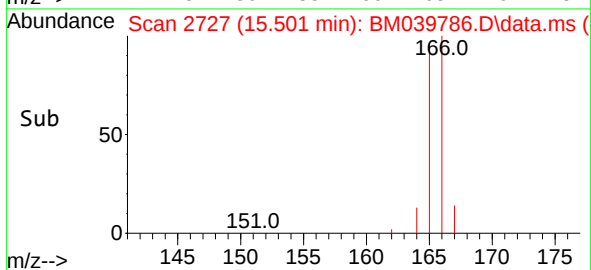
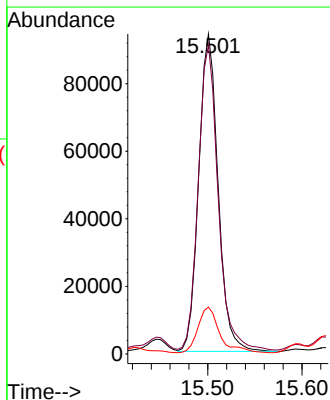
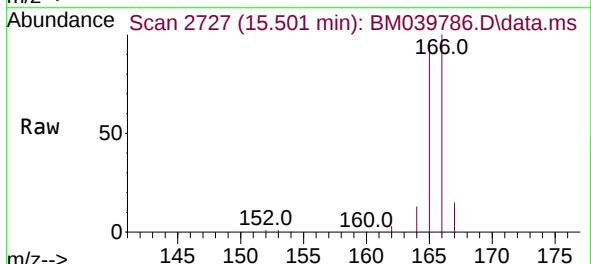
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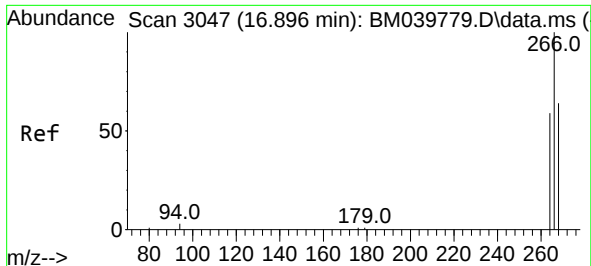
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#12  
Fluorene  
Concen: 4.196 ng/ul  
RT: 15.501 min Scan# 2727  
Delta R.T. -0.009 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

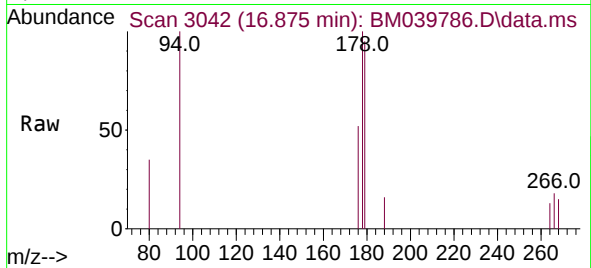
Tgt Ion:166 Resp: 134152  
Ion Ratio Lower Upper  
166 100  
165 96.7 79.0 118.6  
167 14.7 11.8 17.6





#14  
 Pentachlorophenol  
 Concen: 0.066 ng/ul  
 RT: 16.875 min Scan# 3047  
 Delta R.T. -0.013 min  
 Lab File: BM039786.D  
 Acq: 01 May 2023 20:25

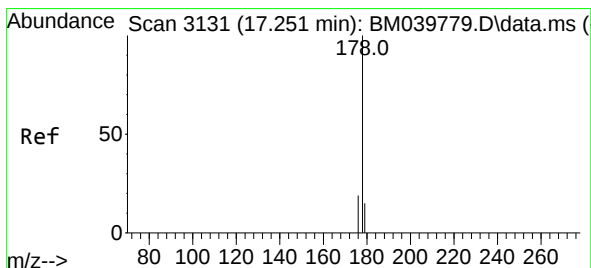
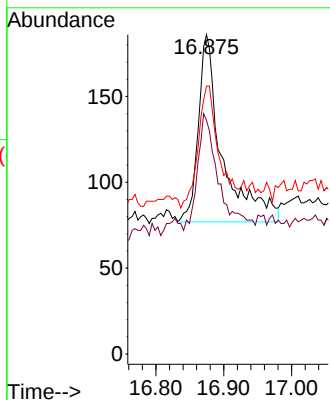
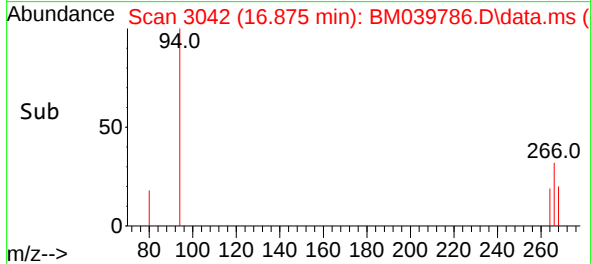
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW8Y1



Tgt Ion:266 Resp: 266  
 Ion Ratio Lower Upper  
 266 100  
 264 56.0 48.8 73.2  
 268 66.2 50.4 75.6

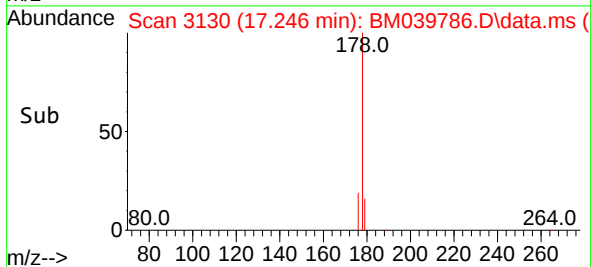
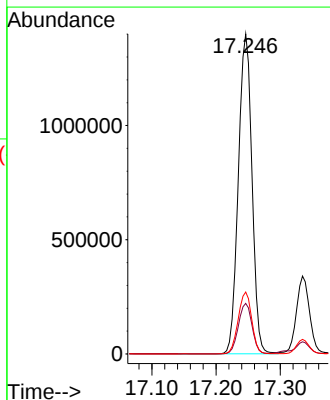
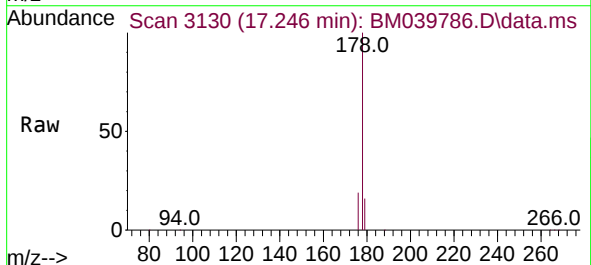
Manual Integrations  
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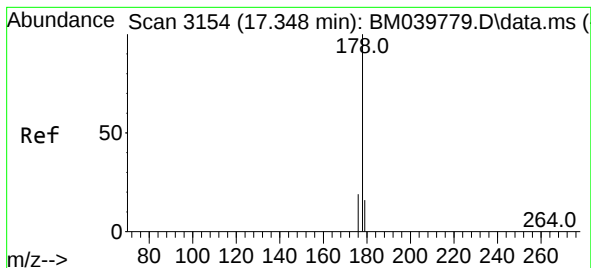
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023



#15  
 Phenanthrene  
 Concen: 42.236 ng/ul  
 RT: 17.246 min Scan# 3130  
 Delta R.T. 0.000 min  
 Lab File: BM039786.D  
 Acq: 01 May 2023 20:25

Tgt Ion:178 Resp: 2072220  
 Ion Ratio Lower Upper  
 178 100  
 179 15.8 13.0 19.6  
 176 19.3 15.8 23.8





#16

Anthracene

Concen: 11.006 ng/ul

RT: 17.335 min Scan# 3154

Delta R.T. -0.008 min

Lab File: BM039786.D

Acq: 01 May 2023 20:25

Instrument :

BNA\_M

ClientSampleId :

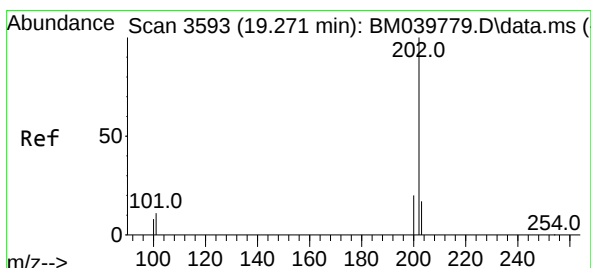
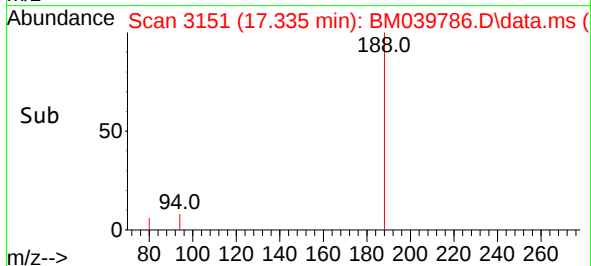
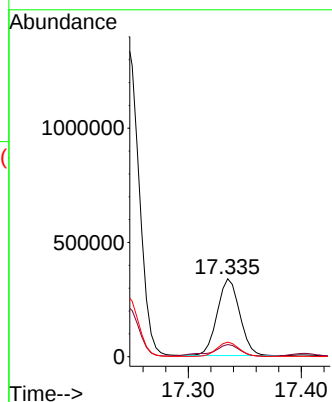
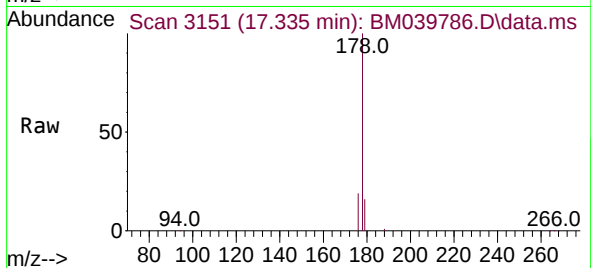
EW8Y1

Tgt Ion:178 Resp: 463650  
 Ion Ratio Lower Upper  
 178 100  
 179 15.6 13.8 20.6  
 176 18.6 15.8 23.8

Manual Integrations

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Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023



#19

Fluoranthene

Concen: 108.194 ng/ul

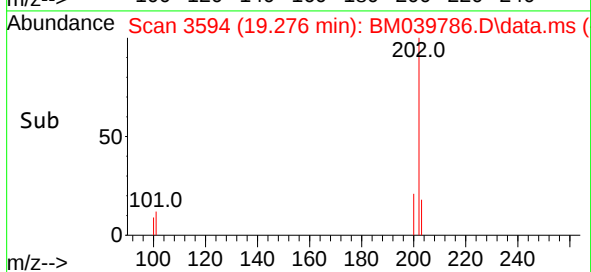
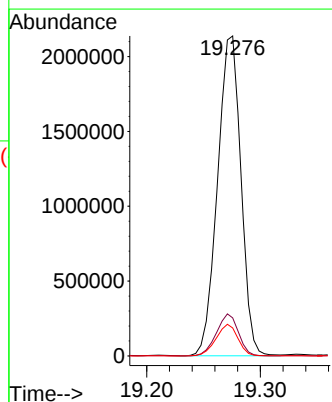
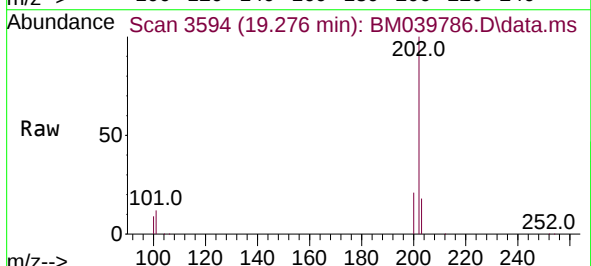
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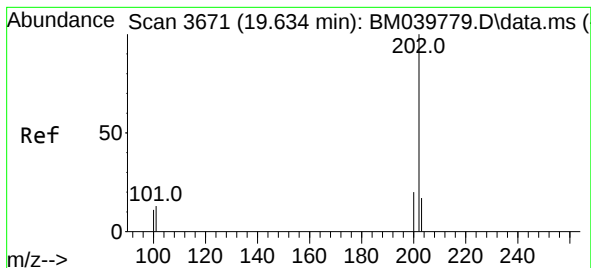
Delta R.T. 0.009 min

Lab File: BM039786.D

Acq: 01 May 2023 20:25

Tgt Ion:202 Resp: 3055906  
 Ion Ratio Lower Upper  
 202 100  
 101 11.9 9.8 14.8  
 100 8.8 7.3 10.9





#20

Pyrene

Concen: 91.624 ng/ul

RT: 19.638 min Scan# 30

Delta R.T. 0.005 min

Lab File: BM039786.D

Acq: 01 May 2023 20:25

Instrument :

BNA\_M

ClientSampleId :

EW8Y1

Tgt Ion:202 Resp: 279467

Ion Ratio Lower Upper

202 100

101 14.0 10.9 16.3

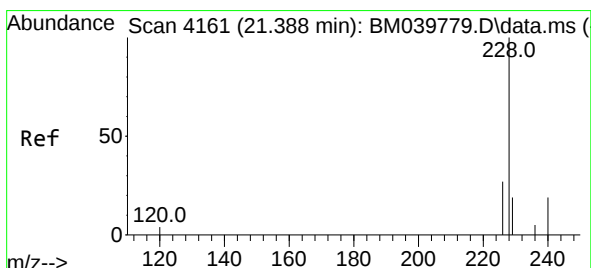
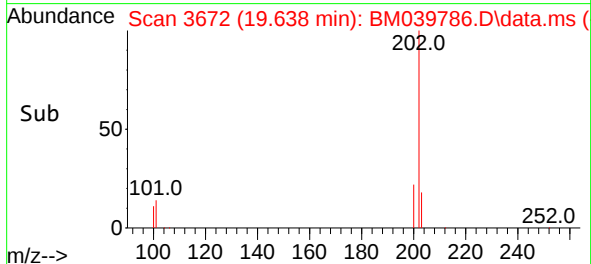
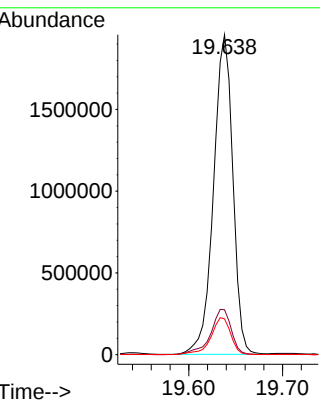
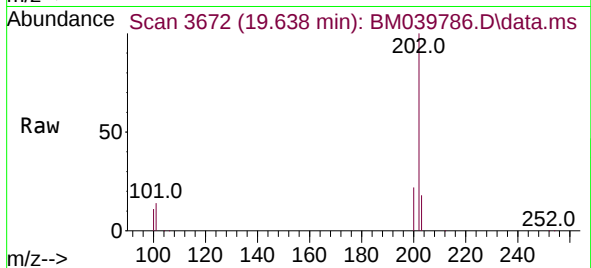
100 11.2 8.9 13.3

Manual Integrations

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Reviewed By :Christian Giraldo 05/02/2023

Supervised By :Jagrut Upadhyay 05/02/2023



#21

Benzo(a)anthracene

Concen: 59.792 ng/ul

RT: 21.386 min Scan# 4160

Delta R.T. 0.003 min

Lab File: BM039786.D

Acq: 01 May 2023 20:25

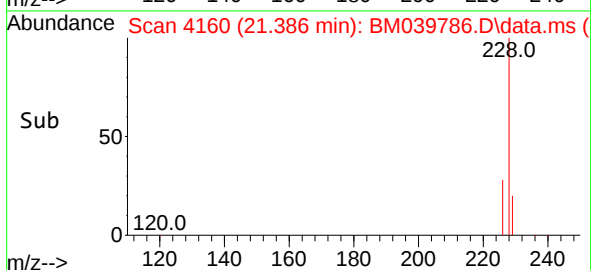
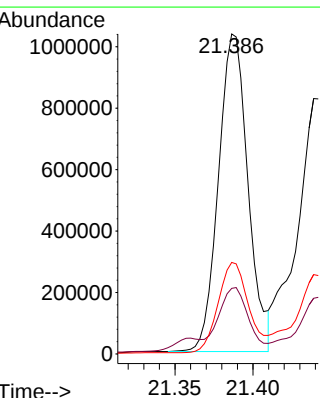
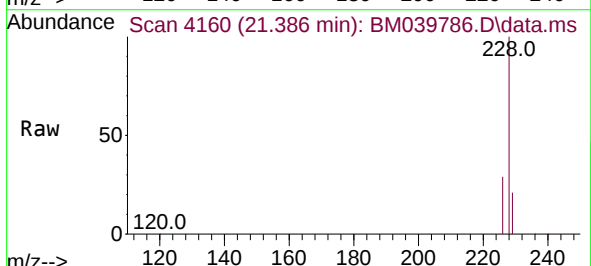
Tgt Ion:228 Resp: 1361013

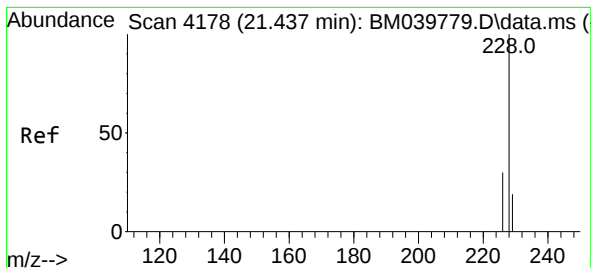
Ion Ratio Lower Upper

228 100

229 20.5 16.2 24.2

226 28.6 21.6 32.4





#22

Chrysene

Concen: 47.410 ng/u1

RT: 21.439 min Scan# 41

Delta R.T. 0.003 min

Lab File: BM039786.D

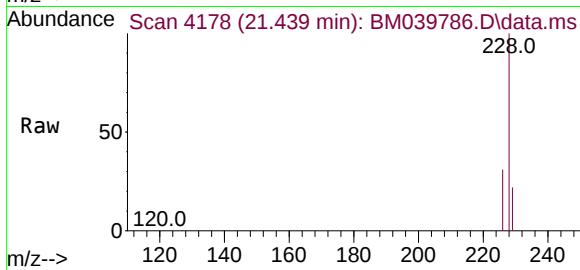
Acq: 01 May 2023 20:25

Instrument :

BNA\_M

ClientSampleId :

EW8Y1



Tgt Ion:228 Resp: 122128

Ion Ratio Lower Upper

228 100

226 31.1 24.3 36.5

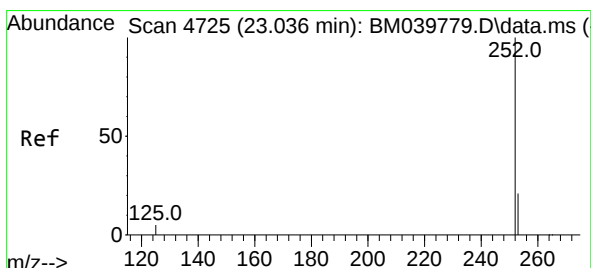
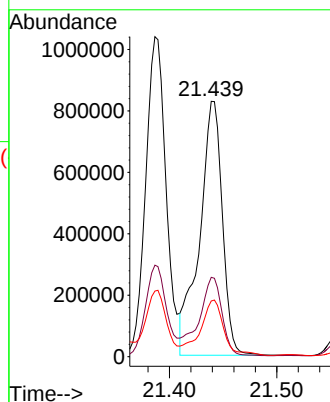
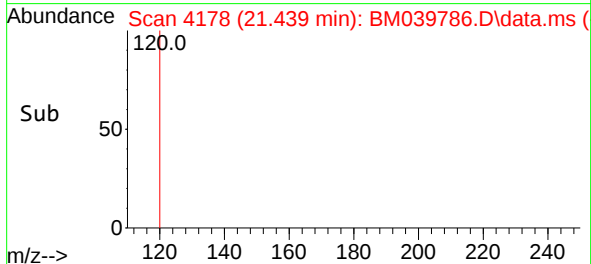
229 21.8 15.9 23.9

Manual Integrations

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Reviewed By :Christian Giraldo 05/02/2023

Supervised By :Jagrut Upadhyay 05/02/2023



#24

Benzo(b)fluoranthene

Concen: 38.997 ng/u1

RT: 23.046 min Scan# 4728

Delta R.T. 0.015 min

Lab File: BM039786.D

Acq: 01 May 2023 20:25

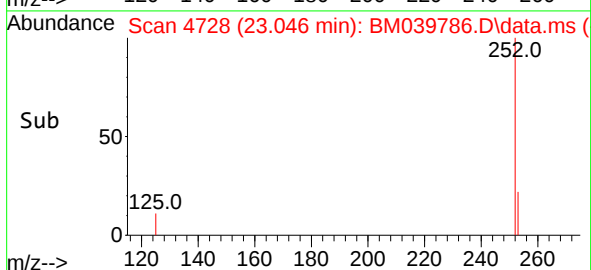
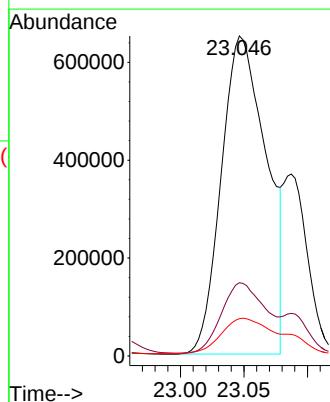
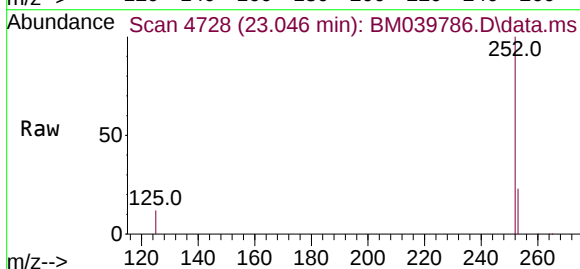
Tgt Ion:252 Resp: 1604300

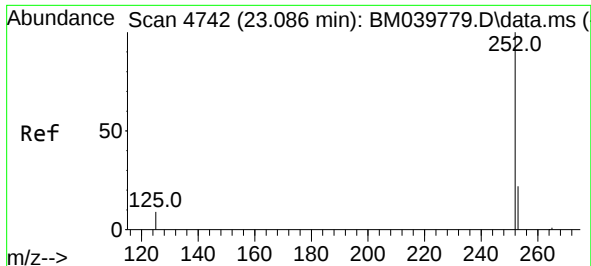
Ion Ratio Lower Upper

252 100

253 22.9 0.0 52.8

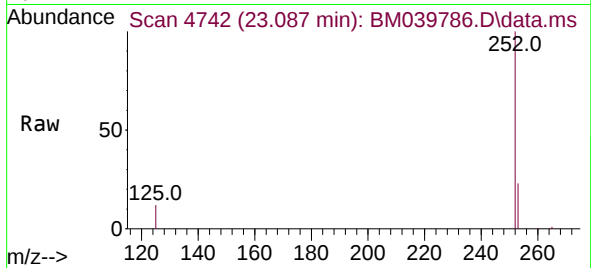
125 11.7 0.0 31.6





#25  
Benzo(k)fluoranthene  
Concen: 11.737 ng/ul m  
RT: 23.087 min Scan# 4742  
Delta R.T. 0.009 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

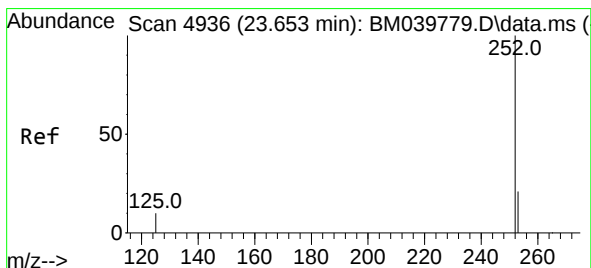
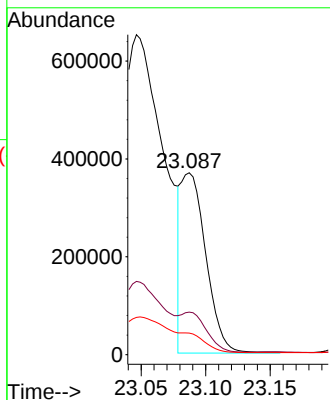
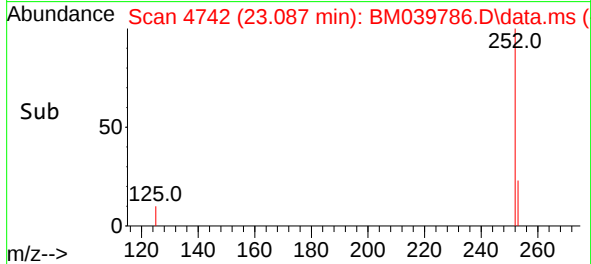
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1



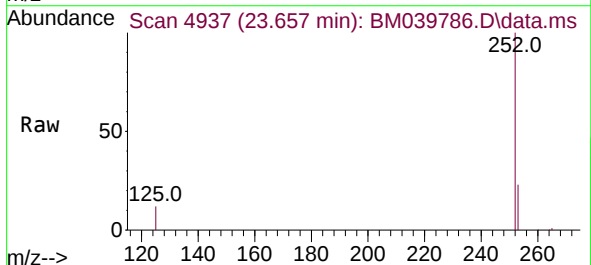
Tgt Ion:252 Resp: 491658  
Ion Ratio Lower Upper  
252 100  
253 23.4 21.3 31.9  
125 11.9 13.0 19.6

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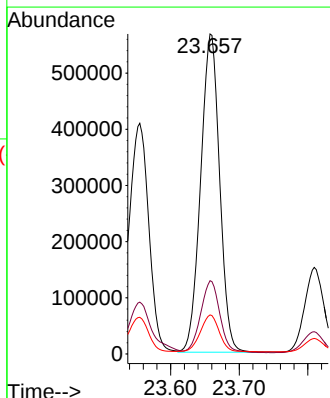
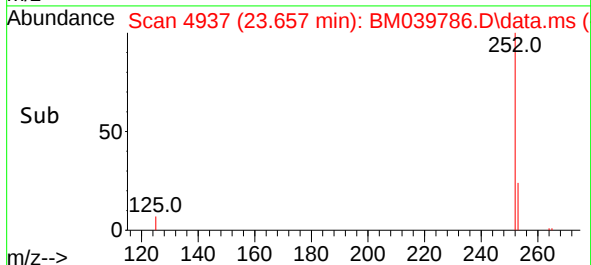
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

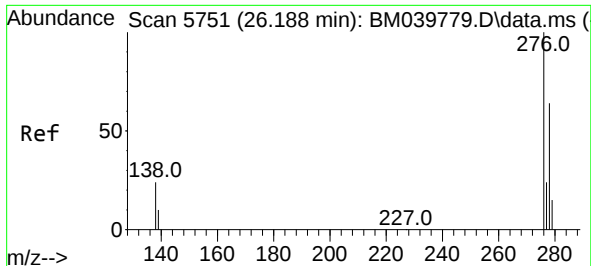


#26  
Benzo(a)pyrene  
Concen: 29.479 ng/ul  
RT: 23.657 min Scan# 4937  
Delta R.T. 0.015 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25



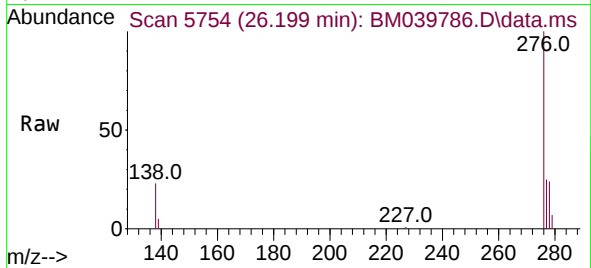
Tgt Ion:252 Resp: 1088832  
Ion Ratio Lower Upper  
252 100  
253 22.9 24.7 37.1#  
125 12.2 16.5 24.7#





#27  
Indeno(1,2,3-cd)pyrene  
Concen: 16.660 ng/ul  
RT: 26.199 min Scan# 5754  
Delta R.T. 0.020 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25

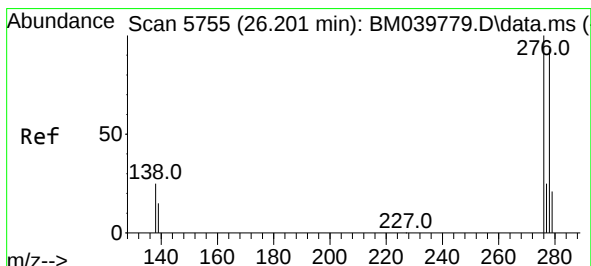
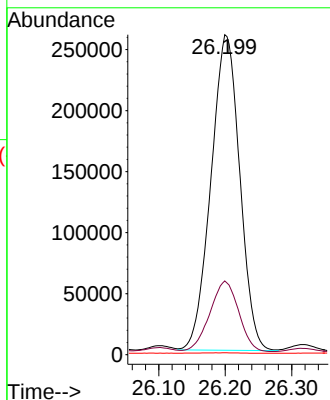
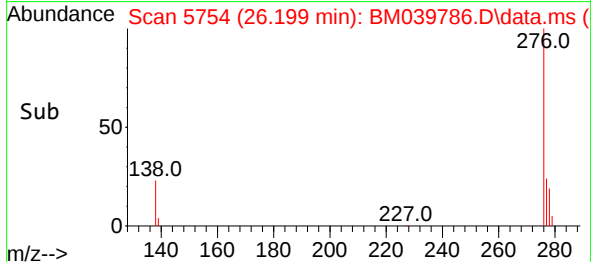
Instrument :  
BNA\_M  
ClientSampleId :  
EW8Y1



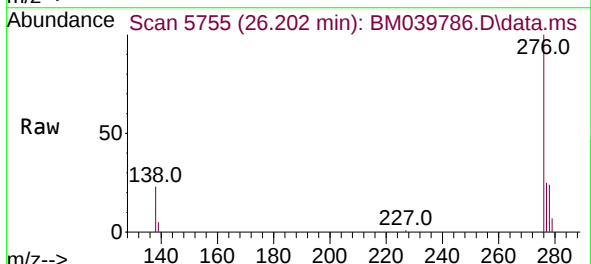
Tgt Ion:276 Resp: 77807  
Ion Ratio Lower Upper  
276 100  
138 22.5 21.1 31.7  
227 0.2 0.1 0.1

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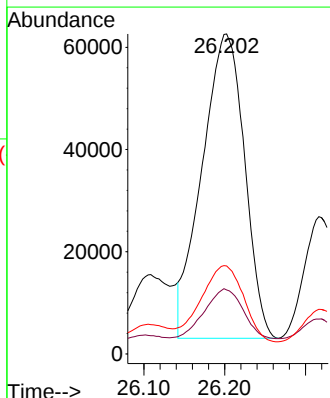
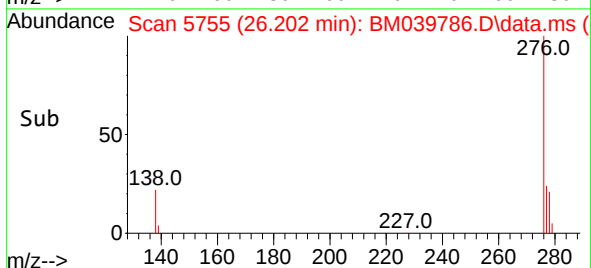
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

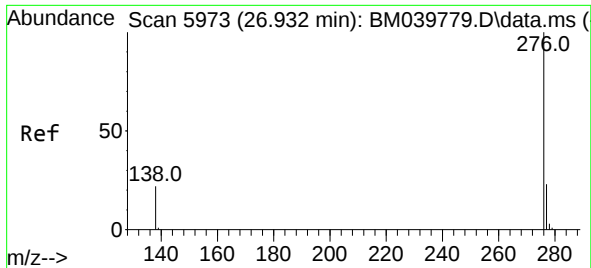


#28  
Dibenzo(a,h)anthracene  
Concen: 6.006 ng/ul  
RT: 26.202 min Scan# 5755  
Delta R.T. 0.013 min  
Lab File: BM039786.D  
Acq: 01 May 2023 20:25



Tgt Ion:278 Resp: 217709  
Ion Ratio Lower Upper  
278 100  
139 20.0 17.0 25.6  
279 27.5 23.4 35.2





#29

Benzo(g,h,i)perylene

Concen: 17.577 ng/ul

RT: 26.954 min Scan# 5979

Delta R.T. 0.034 min

Lab File: BM039786.D

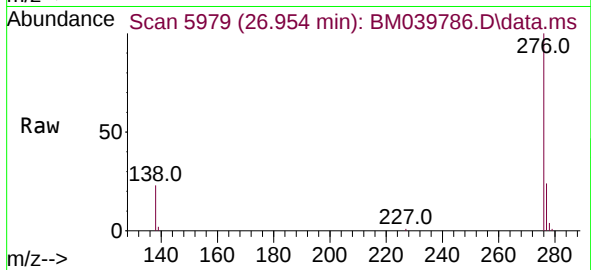
Acq: 01 May 2023 20:25

Instrument :

BNA\_M

ClientSampleId :

EW8Y1



Tgt Ion:276 Resp: 715320

Ion Ratio Lower Upper

276 100

138 23.0 20.1 30.1

277 24.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/02/2023

Supervised By :Jagrut Upadhyay 05/02/2023

