

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050123\  
 Data File : BM039783.D  
 Acq On : 01 May 2023 18:37  
 Operator : CG/JU  
 Sample : 02418-30  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW904

Manual Integrations  
 APPROVED

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

Quant Time: May 02 01:26:49 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  | 4590      | 0.400   | ng/ul  | -0.03    |
| 4) Naphthalene-d8           | 10.588 | 136  | 16119     | 0.400   | ng/ul  | -0.02    |
| 9) Acenaphthene-d10         | 14.445 | 164  | 10229     | 0.400   | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.211 | 188  | 12273     | 0.400   | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.373 | 240  | 13999     | 0.400   | ng/ul  | #-0.03   |
| 23) Perylene-d12            | 23.805 | 264  | 26310m    | 0.400   | ng/ul  | 0.06     |
|                             |        |      |           |         |        |          |
| System Monitoring Compounds |        |      |           |         |        |          |
| 3) 1,4-Dioxane-d8           | 3.188  | 96   | 14992     | 2.216   | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.188 | 152  | 4970      | 0.240   | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.241 | 212  | 14410m    | 0.383   | ng/ul  | 0.00     |
|                             |        |      |           |         |        |          |
| Target Compounds            |        |      |           |         |        |          |
|                             |        |      |           |         | Qvalue |          |
| 5) Naphthalene              | 10.638 | 128  | 850773    | 21.019  | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.260 | 142  | 329242    | 14.093  | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.480 | 142  | 292996    | 11.692  | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.167 | 152  | 1715837   | 43.338  | ng/ul  | 99       |
| 11) Acenaphthene            | 14.509 | 153  | 1171856   | 37.682  | ng/ul  | 98       |
| 12) Fluorene                | 15.504 | 166  | 1961544   | 56.851  | ng/ul  | 96       |
| 14) Pentachlorophenol       | 16.882 | 266  | 1326      | 0.496   | ng/ul  | 96       |
| 15) Phenanthrene            | 17.283 | 178  | 16849951  | 521.123 | ng/ul  | 97       |
| 16) Anthracene              | 17.355 | 178  | 6032805   | 217.291 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.316 | 202  | 26406149m | 528.728 | ng/ul  |          |
| 20) Pyrene                  | 19.692 | 202  | 22141093  | 410.528 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.428 | 228  | 14377924m | 357.222 | ng/ul  |          |
| 22) Chrysene                | 21.499 | 228  | 12520750m | 274.884 | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.144 | 252  | 22799663m | 246.752 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 23.179 | 252  | 5695625m  | 60.539  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.764 | 252  | 15460485m | 186.364 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 26.385 | 276  | 16575787m | 158.017 | ng/ul  |          |
| 28) Dibenzo(a,h)anthracene  | 26.335 | 278  | 3854175m  | 47.338  | ng/ul  |          |
| 29) Benzo(g,h,i)perylene    | 27.143 | 276  | 13497489m | 147.669 | ng/ul  |          |
| -----                       |        |      |           |         |        |          |

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

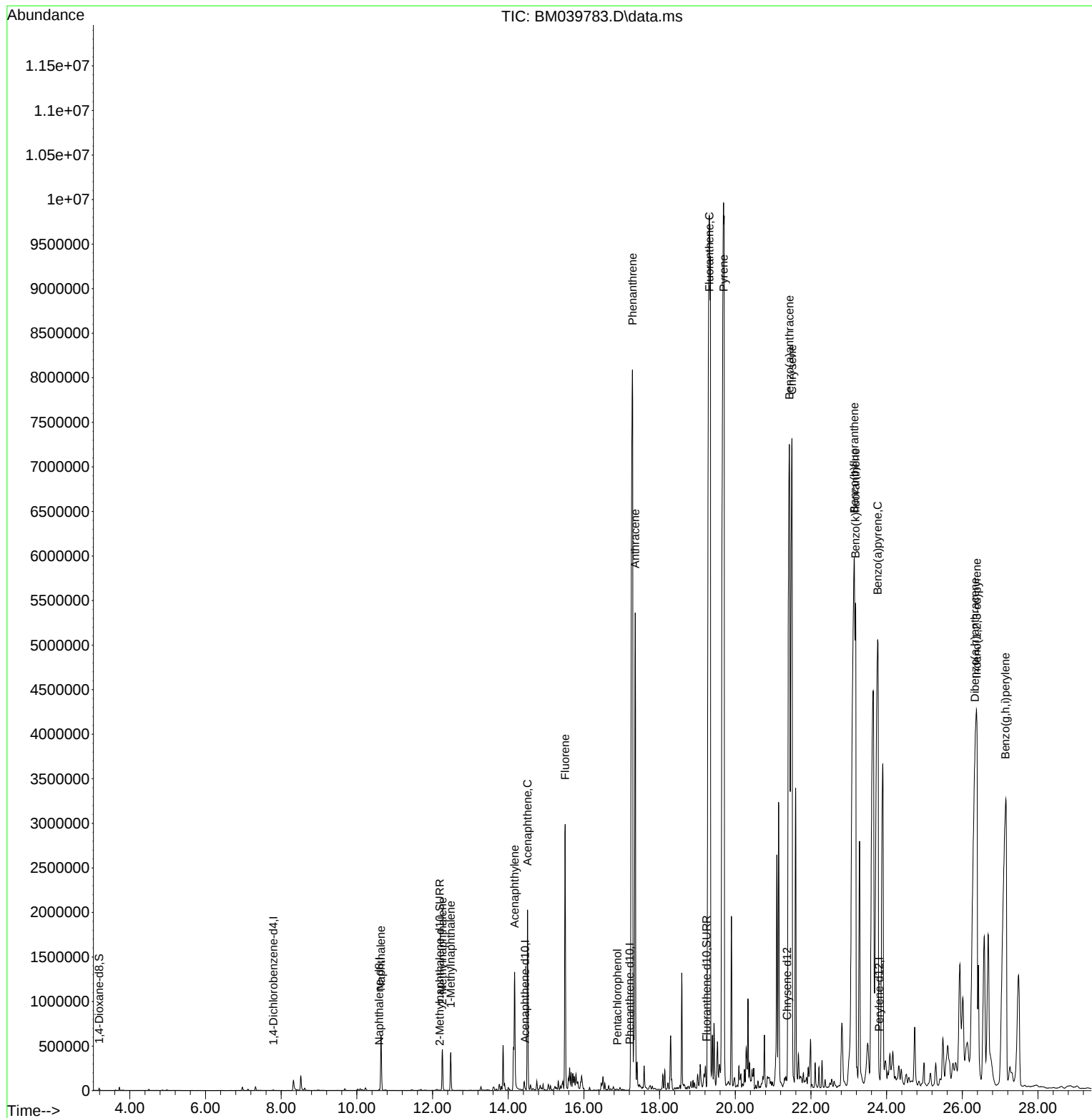
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM050123\  
Data File : BM039783.D  
Acq On : 01 May 2023 18:37  
Operator : CG/JU  
Sample : 02418-30  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

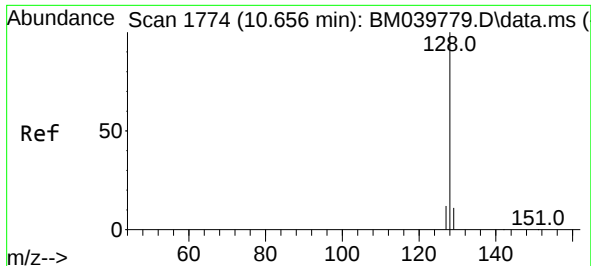
Instrument :  
BNA\_M  
ClientSampleId :  
EW904

Quant Time: May 02 01:26:49 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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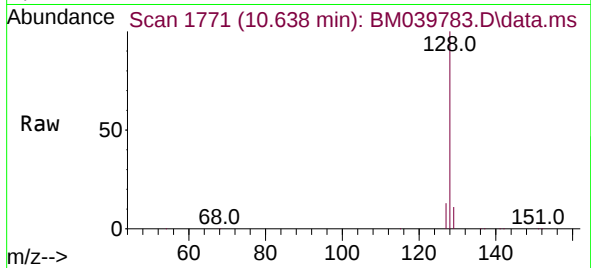
Reviewed By : Christian Giraldo 05/02/2023  
Supervised By : Jagrut Upadhyay 05/02/2023





#5  
Naphthalene  
Concen: 21.019 ng/ul  
RT: 10.638 min Scan# 1774  
Delta R.T. -0.018 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

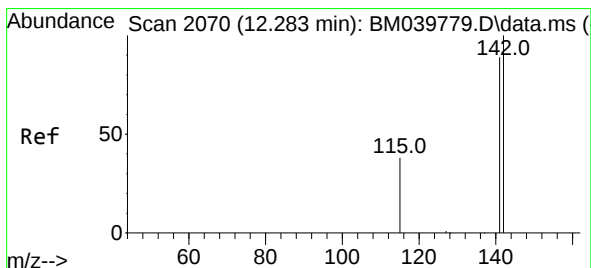
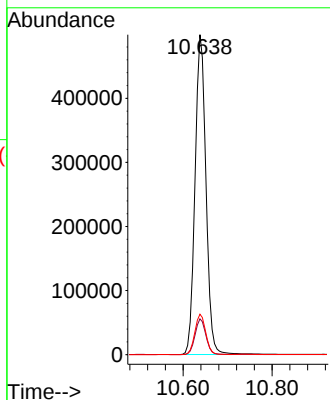
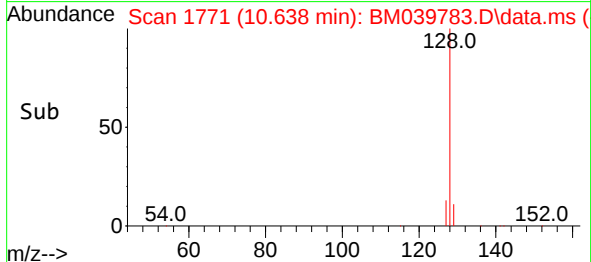
Instrument :  
BNA\_M  
ClientSampleId :  
EW904



Tgt Ion:128 Resp: 850774  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.8 14.6  
127 12.7 11.1 16.7

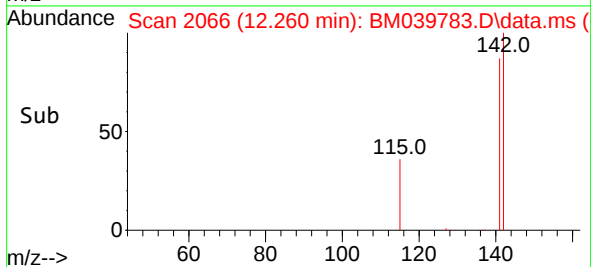
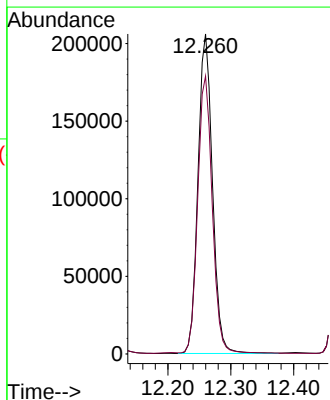
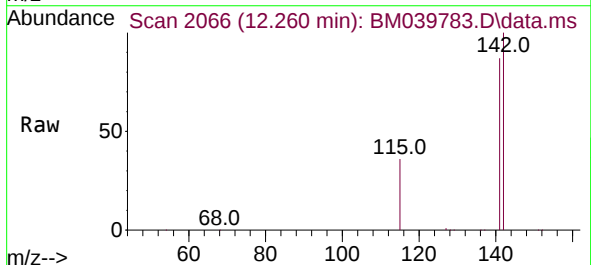
Manual Integrations  
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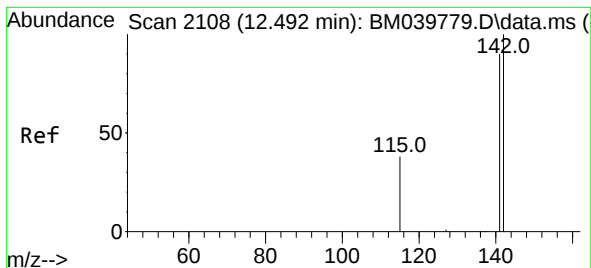
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#7  
2-Methylnaphthalene  
Concen: 14.093 ng/ul  
RT: 12.260 min Scan# 2066  
Delta R.T. -0.018 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

Tgt Ion:142 Resp: 329242  
Ion Ratio Lower Upper  
142 100  
141 87.6 73.2 109.8





#8

1-Methylnaphthalene

Concen: 11.692 ng/ul

RT: 12.480 min Scan# 2106

Delta R.T. -0.012 min

Lab File: BM039783.D

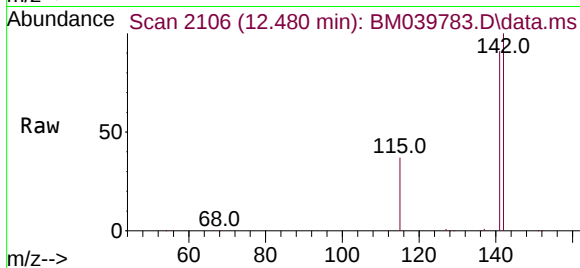
Acq: 01 May 2023 18:37

Instrument :

BNA\_M

ClientSampleId :

EW904



Tgt Ion:142 Resp: 292990

Ion Ratio Lower Upper

142 100

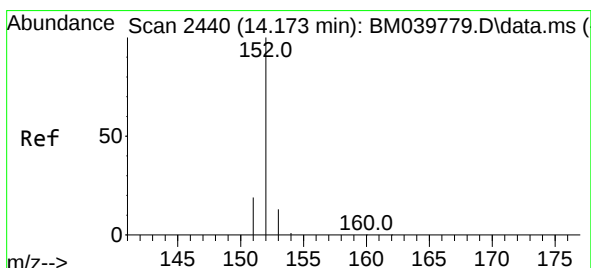
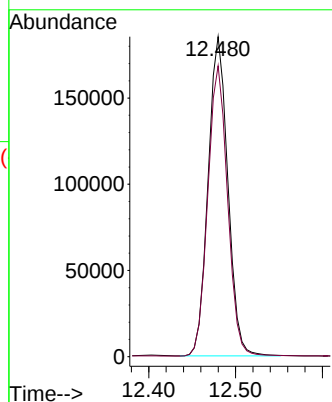
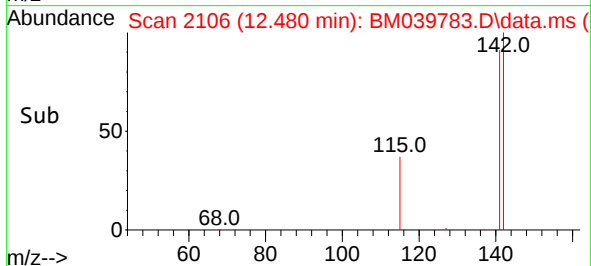
141 90.9 73.4 110.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/02/2023



#10

Acenaphthylene

Concen: 43.338 ng/ul

RT: 14.167 min Scan# 2439

Delta R.T. -0.006 min

Lab File: BM039783.D

Acq: 01 May 2023 18:37

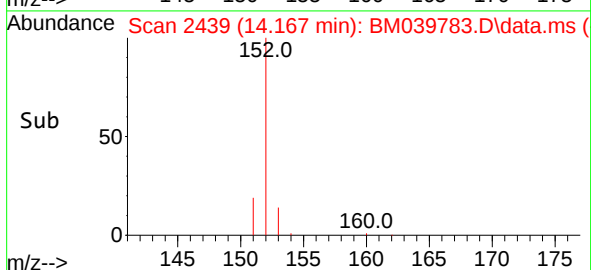
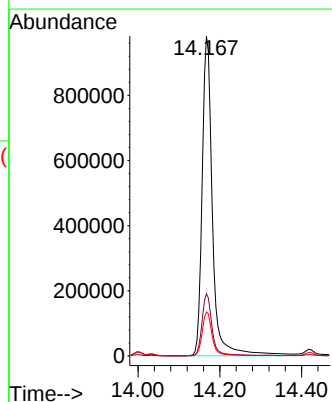
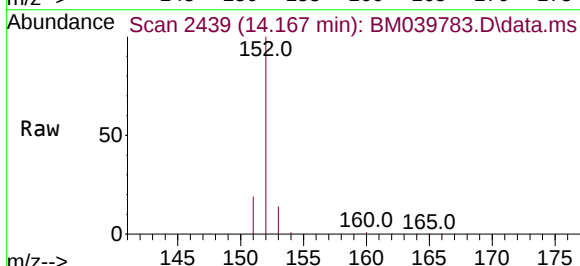
Tgt Ion:152 Resp: 1715837

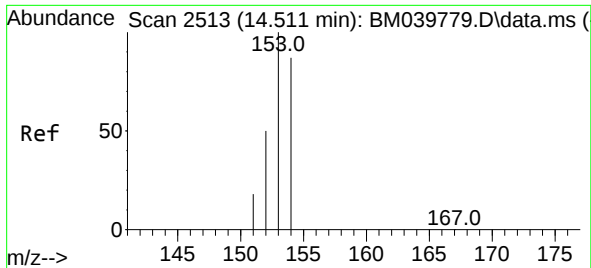
Ion Ratio Lower Upper

152 100

151 19.4 16.0 24.0

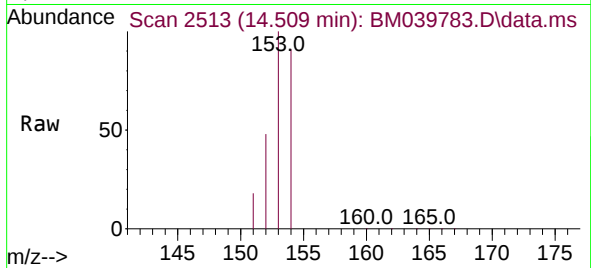
153 13.7 11.2 16.8





#11  
Acenaphthene  
Concen: 37.682 ng/ul  
RT: 14.509 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

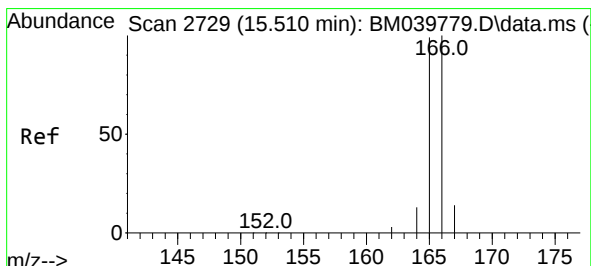
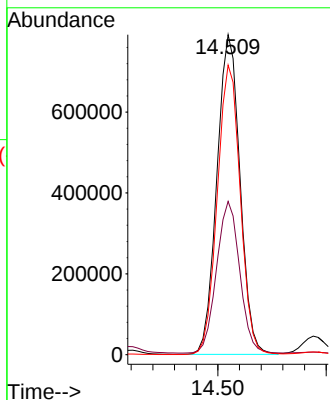
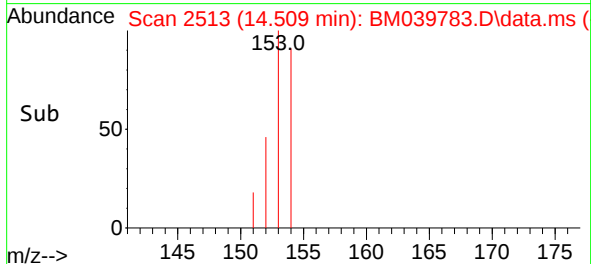
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ClientSampleId :  
EW904



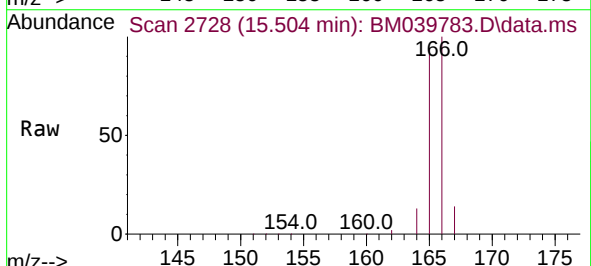
Tgt Ion:153 Resp: 1171850  
Ion Ratio Lower Upper  
153 100  
152 47.9 40.6 61.0  
154 90.5 71.9 107.9

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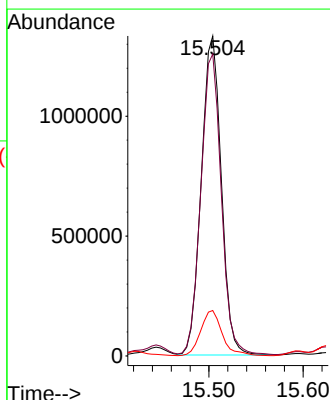
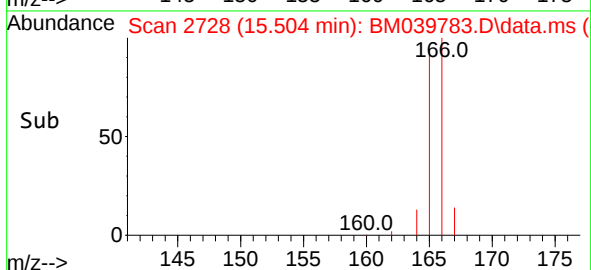
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

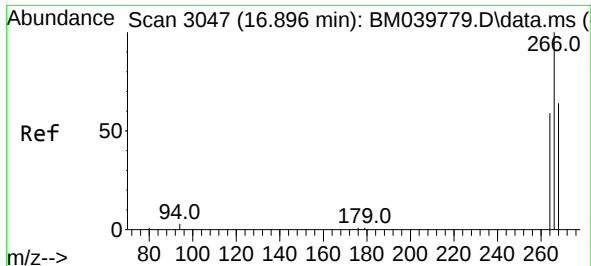


#12  
Fluorene  
Concen: 56.851 ng/ul  
RT: 15.504 min Scan# 2728  
Delta R.T. -0.006 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37



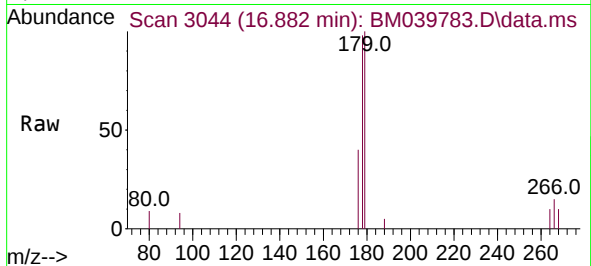
Tgt Ion:166 Resp: 1961544  
Ion Ratio Lower Upper  
166 100  
165 94.4 79.0 118.6  
167 14.2 11.8 17.6





#14  
Pentachlorophenol  
Concen: 0.496 ng/uI  
RT: 16.882 min Scan# 3044  
Delta R.T. -0.006 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

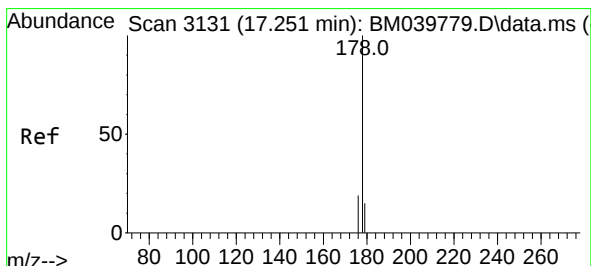
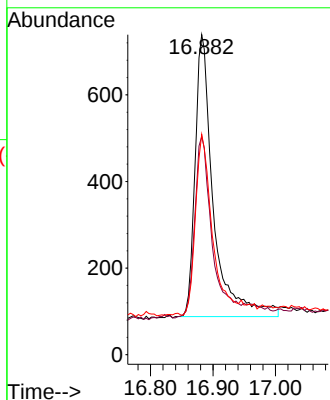
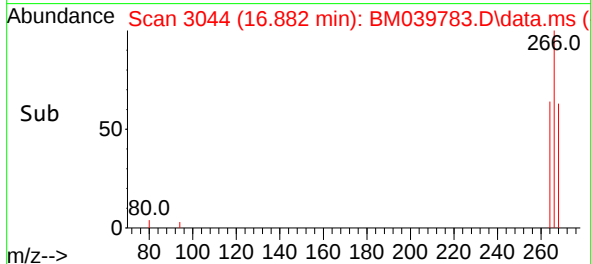
Instrument :  
BNA\_M  
ClientSampleId :  
EW904



Tgt Ion:266 Resp: 1320  
Ion Ratio Lower Upper  
266 100  
264 67.7 48.8 73.2  
268 62.8 50.4 75.6

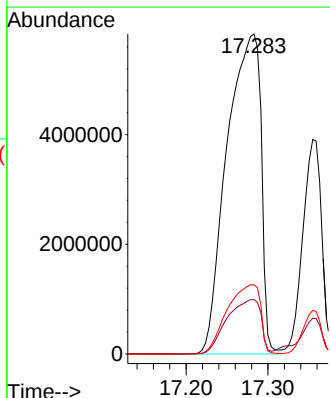
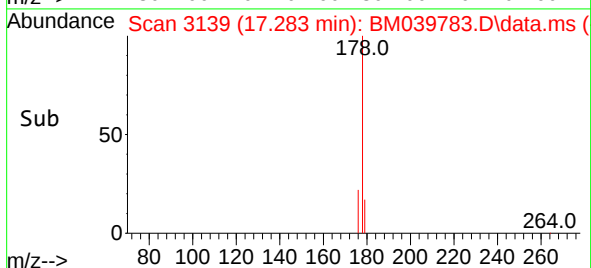
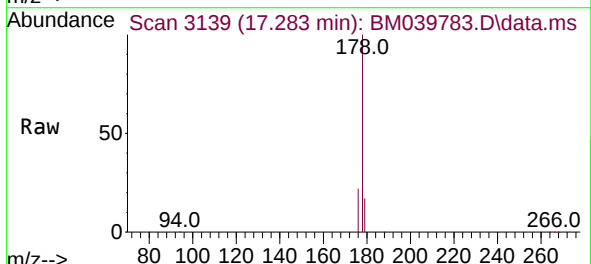
Manual Integrations  
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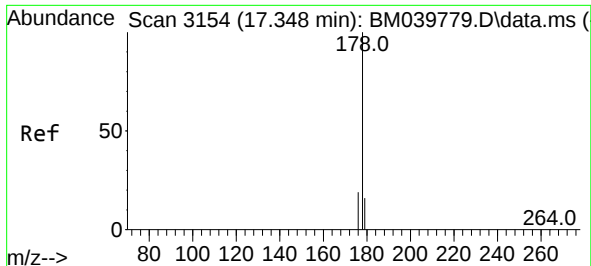
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#15  
Phenanthrene  
Concen: 521.123 ng/uI  
RT: 17.283 min Scan# 3139  
Delta R.T. 0.037 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

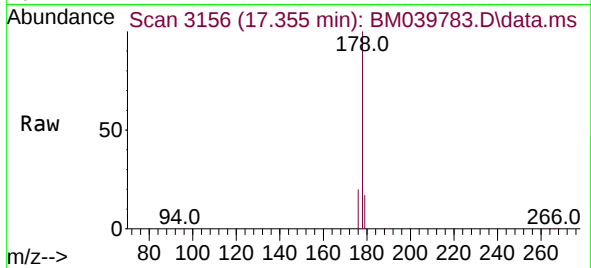
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Ion Ratio Lower Upper  
178 100  
179 17.0 13.0 19.6  
176 21.6 15.8 23.8





#16  
 Anthracene  
 Concen: 217.291 ng/ul  
 RT: 17.355 min Scan# 3154  
 Delta R.T. 0.011 min  
 Lab File: BM039783.D  
 Acq: 01 May 2023 18:37

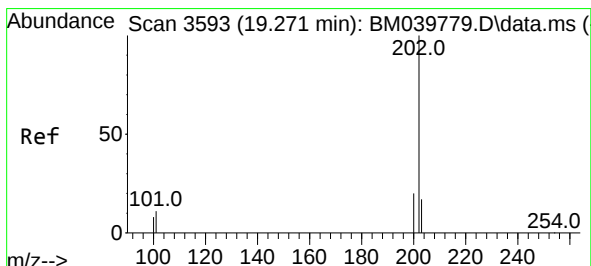
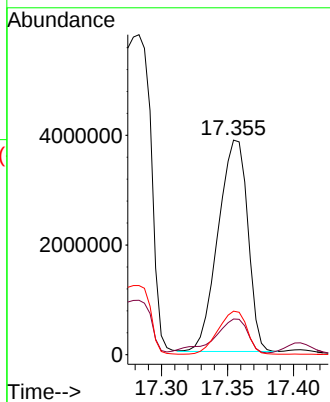
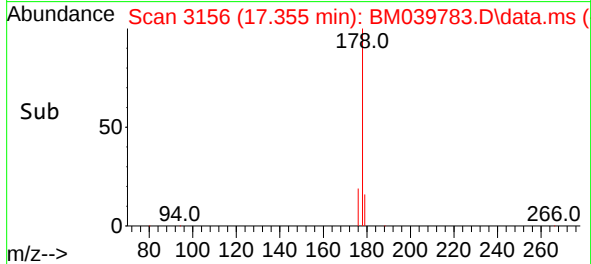
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW904



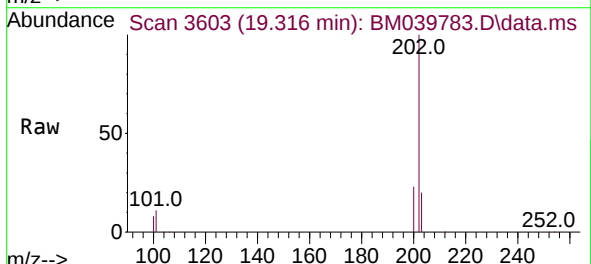
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Manual Integrations  
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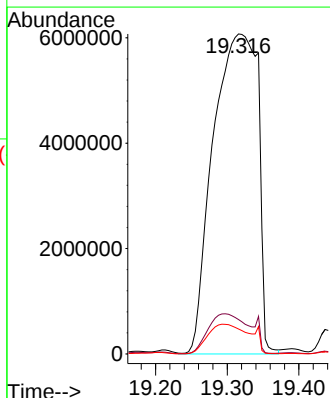
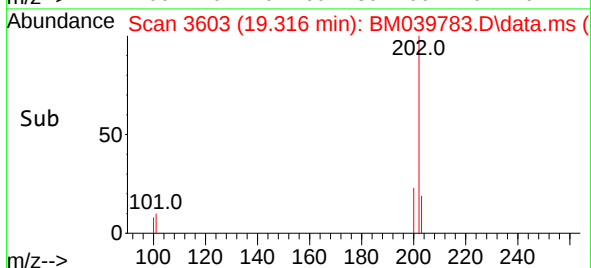
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023

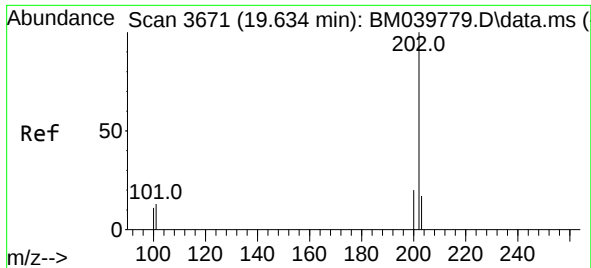


#19  
 Fluoranthene  
 Concen: 528.728 ng/ul m  
 RT: 19.316 min Scan# 3603  
 Delta R.T. 0.049 min  
 Lab File: BM039783.D  
 Acq: 01 May 2023 18:37



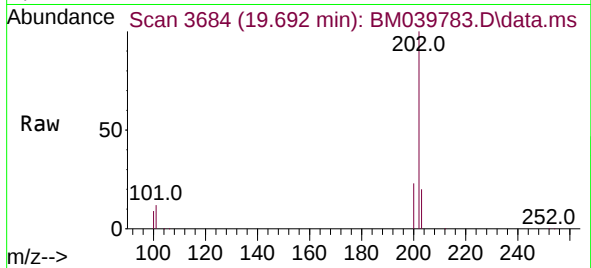
Tgt Ion:202 Resp:26406149  
 Ion Ratio Lower Upper  
 202 100  
 101 10.7 9.8 14.8  
 100 7.8 7.3 10.9





#20  
Pyrene  
Concen: 410.528 ng/ul  
RT: 19.692 min Scan# 30  
Delta R.T. 0.059 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

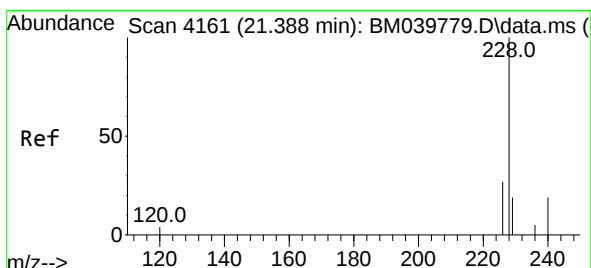
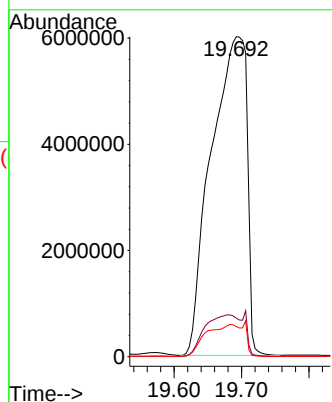
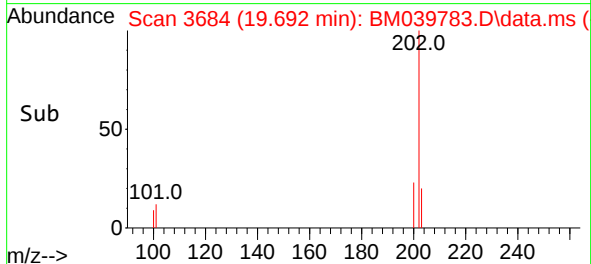
Instrument :  
BNA\_M  
ClientSampleId :  
EW904



Tgt Ion:202 Resp:2214109  
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100 9.4 8.9 13.3

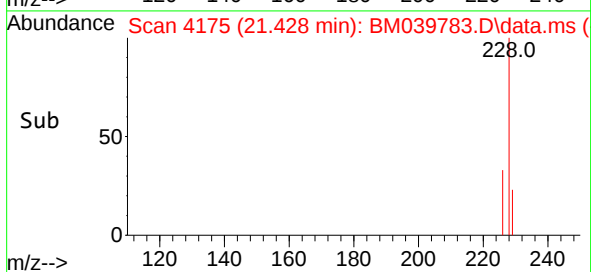
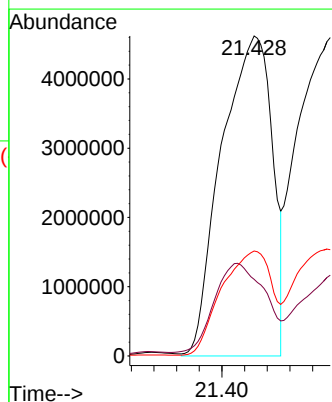
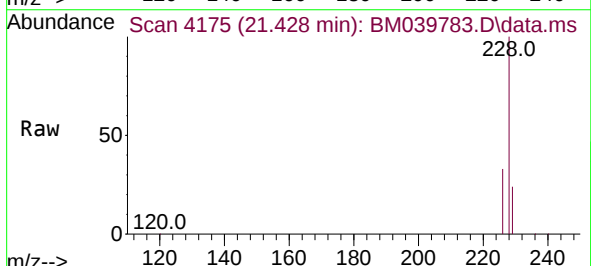
Manual Integrations  
APPROVED

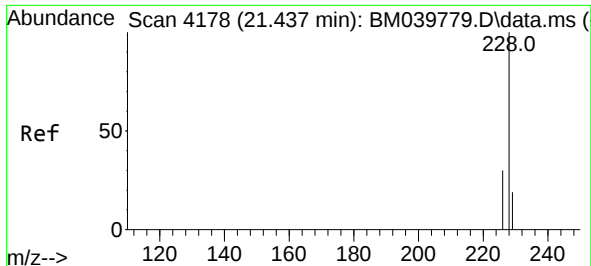
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#21  
Benzo(a)anthracene  
Concen: 357.222 ng/ul m  
RT: 21.428 min Scan# 4175  
Delta R.T. 0.045 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

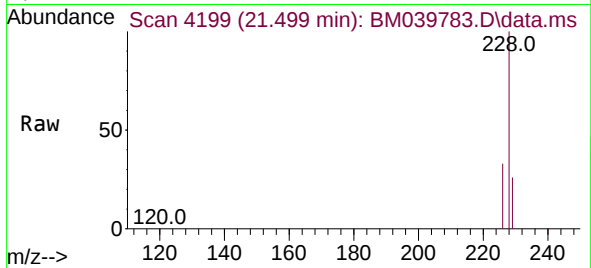
Tgt Ion:228 Resp:14377924  
Ion Ratio Lower Upper  
228 100  
229 24.0 16.2 24.2  
226 32.8 21.6 32.4#





#22  
Chrysene  
Concen: 274.884 ng/ul m  
RT: 21.499 min Scan# 4178  
Delta R.T. 0.063 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

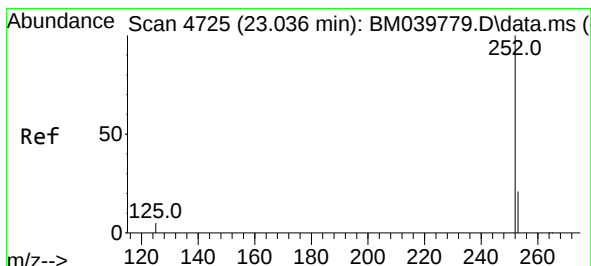
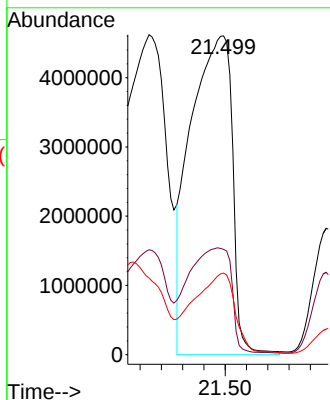
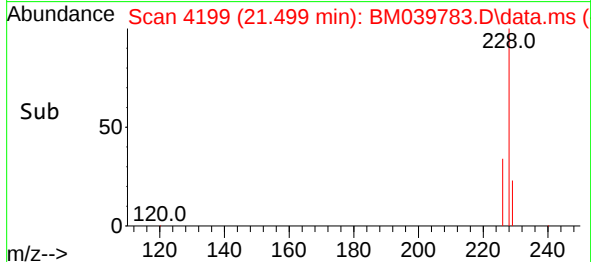
Instrument :  
BNA\_M  
ClientSampleId :  
EW904



Tgt Ion:228 Resp:12520750  
Ion Ratio Lower Upper  
228 100  
226 33.0 24.3 36.5  
229 25.6 15.9 23.9

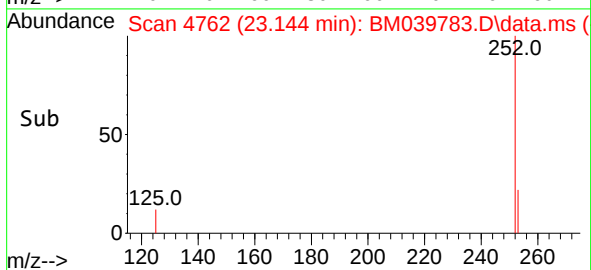
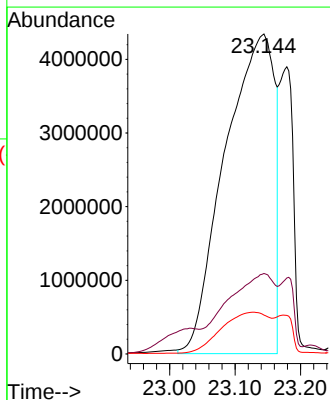
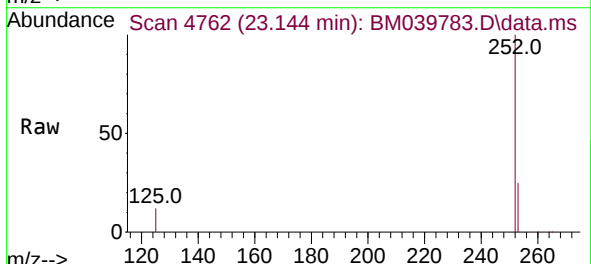
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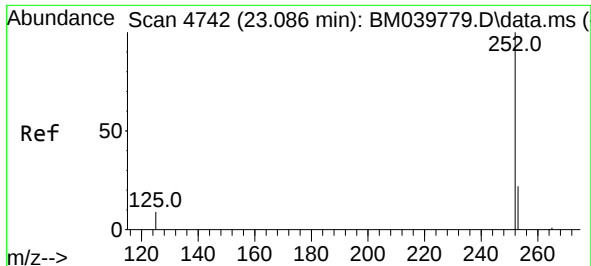
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#24  
Benzo(b)fluoranthene  
Concen: 246.752 ng/ul m  
RT: 23.144 min Scan# 4762  
Delta R.T. 0.112 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

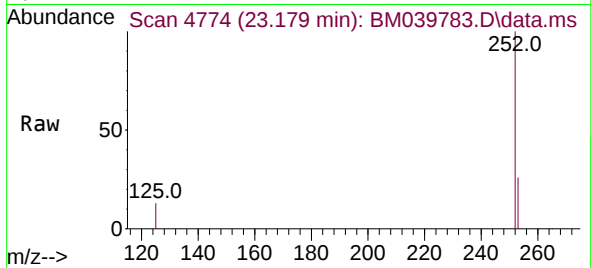
Tgt Ion:252 Resp:22799663  
Ion Ratio Lower Upper  
252 100  
253 25.2 0.0 52.8  
125 12.2 0.0 31.6





#25  
Benzo(k)fluoranthene  
Concen: 60.539 ng/ul m  
RT: 23.179 min Scan# 4774  
Delta R.T. 0.101 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

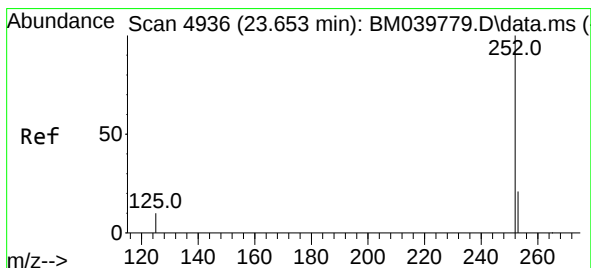
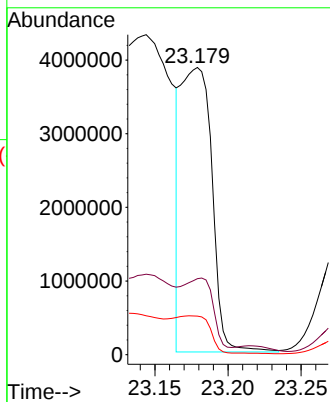
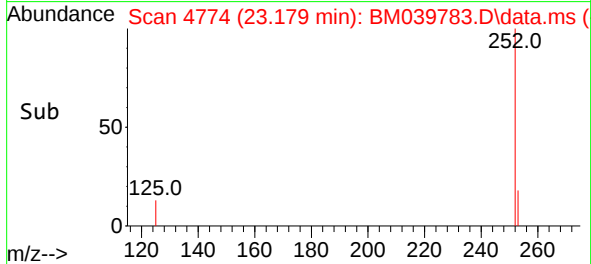
Instrument :  
BNA\_M  
ClientSampleId :  
EW904



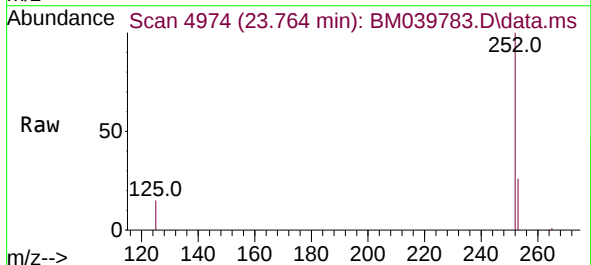
Tgt Ion:252 Resp: 5695629  
Ion Ratio Lower Upper  
252 100  
253 26.4 21.3 31.9  
125 13.4 13.0 19.6

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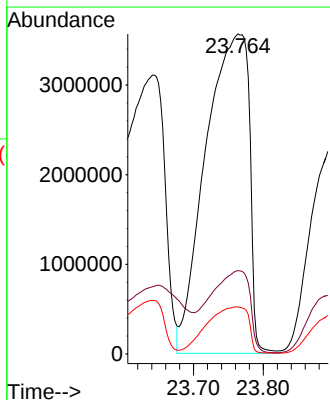
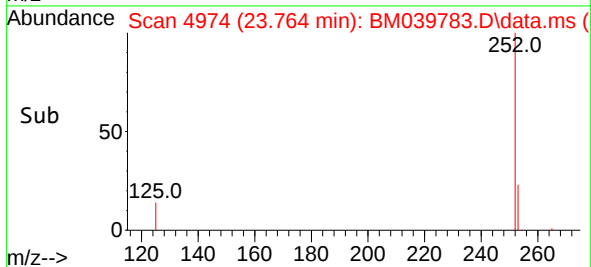
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

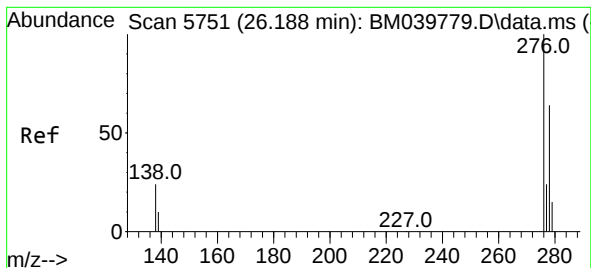


#26  
Benzo(a)pyrene  
Concen: 186.364 ng/ul m  
RT: 23.764 min Scan# 4974  
Delta R.T. 0.121 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37



Tgt Ion:252 Resp:15460485  
Ion Ratio Lower Upper  
252 100  
253 26.0 24.7 37.1  
125 14.7 16.5 24.7#





#27

Indeno(1,2,3-cd)pyrene

Concen: 158.017 ng/ul m

RT: 26.385 min Scan# 5751

Delta R.T. 0.206 min

Lab File: BM039783.D

Acq: 01 May 2023 18:37

Instrument :

BNA\_M

ClientSampleId :

EW904

Tgt Ion:276 Resp:1657578

Ion Ratio Lower Upper

276 100

138 2.2 21.1 31.7

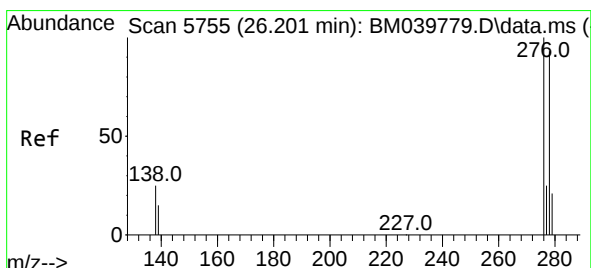
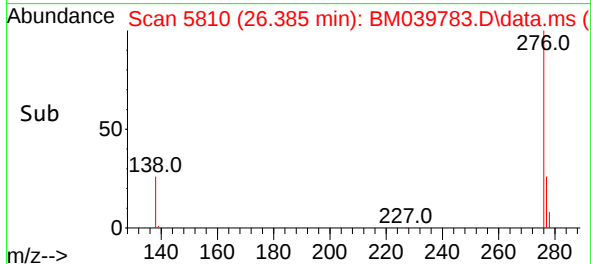
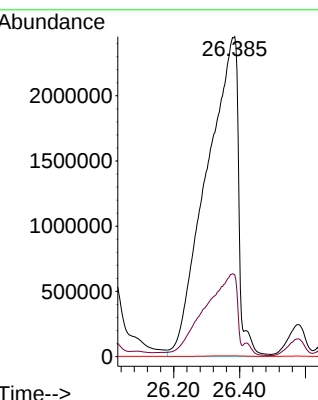
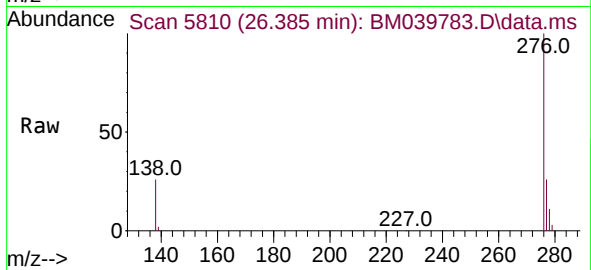
227 0.0 0.1 0.1

Manual Integrations

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Reviewed By :Christian Giraldo 05/02/2023

Supervised By :Jagrut Upadhyay 05/02/2023



#28

Dibenzo(a,h)anthracene

Concen: 47.338 ng/ul m

RT: 26.335 min Scan# 5795

Delta R.T. 0.146 min

Lab File: BM039783.D

Acq: 01 May 2023 18:37

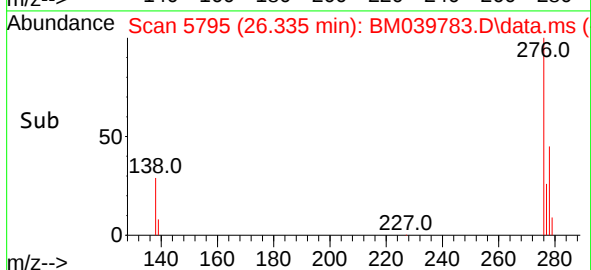
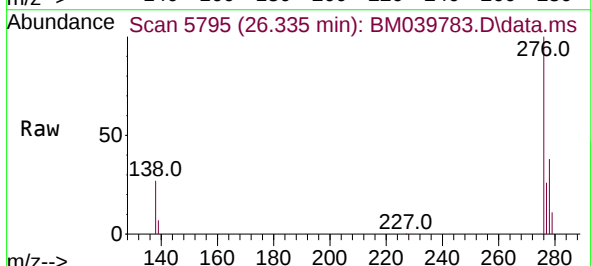
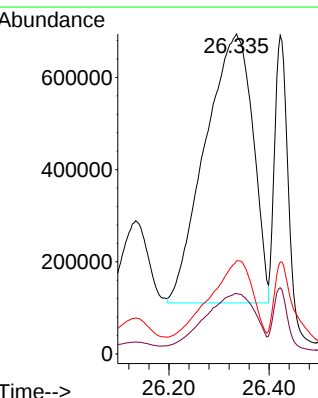
Tgt Ion:278 Resp: 3854175

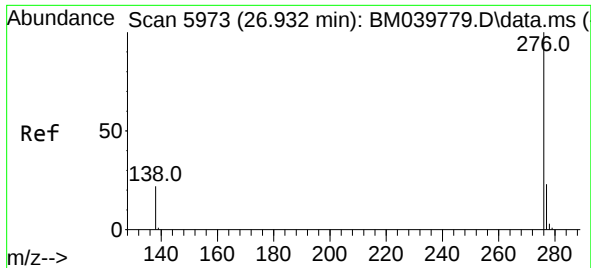
Ion Ratio Lower Upper

278 100

139 18.9 17.0 25.6

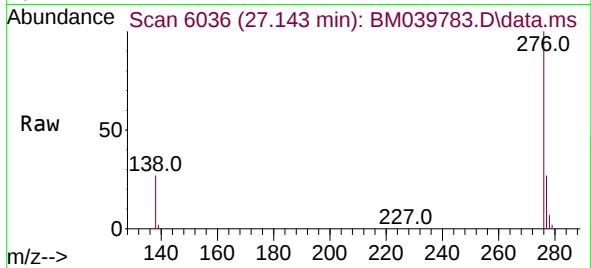
279 29.1 23.4 35.2





#29  
Benzo(g,h,i)perylene  
Concen: 147.669 ng/ul m  
RT: 27.143 min Scan# 60  
Delta R.T. 0.223 min  
Lab File: BM039783.D  
Acq: 01 May 2023 18:37

Instrument :  
BNA\_M  
ClientSampleId :  
EW904



Tgt Ion:276 Resp:13497489  
Ion Ratio Lower Upper  
276 100  
138 27.4 20.1 30.1  
277 27.3 20.1 30.1

Manual Integrations  
APPROVED

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

