

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012623\  
 Data File : BM038584.D  
 Acq On : 27 Jan 2023 13:48  
 Operator : CG/JU  
 Sample : 01226-09MS  
 Misc :  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EX9G4MS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2023  
 Supervised By :mohammad ahmed 01/30/2023

Quant Time: Jan 27 21:59:43 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM012623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 27 00:18:15 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.967  | 152  | 1187     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.774 | 136  | 3224     | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.597 | 164  | 2061     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.337 | 188  | 5290     | 0.400 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.513 | 240  | 6774     | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.918 | 264  | 7445     | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.347  | 96   | 219      | 0.141 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.357 | 152  | 1141     | 0.228 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.362 | 212  | 4590     | 0.237 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.376  | 88   | 871      | 0.551 | ng/ul# | 23       |
| 5) Naphthalene              | 10.823 | 128  | 2090     | 0.199 | ng/ul  | 94       |
| 7) 2-Methylnaphthalene      | 12.429 | 142  | 1347     | 0.243 | ng/ul  | 94       |
| 8) 1-Methylnaphthalene      | 12.649 | 142  | 1426     | 0.249 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.319 | 152  | 2354     | 0.259 | ng/ul# | 91       |
| 11) Acenaphthene            | 14.657 | 153  | 1699     | 0.245 | ng/ul  | 98       |
| 12) Fluorene                | 15.642 | 166  | 2168     | 0.251 | ng/ul# | 98       |
| 14) Pentachlorophenol       | 16.991 | 266  | 1232     | 0.572 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.379 | 178  | 4154     | 0.243 | ng/ul# | 93       |
| 16) Anthracene              | 17.472 | 178  | 4731m    | 0.324 | ng/ul  |          |
| 19) Fluoranthene            | 19.390 | 202  | 6219     | 0.258 | ng/ul# | 93       |
| 20) Pyrene                  | 19.752 | 202  | 6666     | 0.257 | ng/ul# | 95       |
| 21) Benzo(a)anthracene      | 21.495 | 228  | 6678     | 0.277 | ng/ul  | 94       |
| 22) Chrysene                | 21.548 | 228  | 6624     | 0.274 | ng/ul# | 92       |
| 24) Benzo(b)fluoranthene    | 23.184 | 252  | 7361     | 0.263 | ng/ul  | 90       |
| 25) Benzo(k)fluoranthene    | 23.231 | 252  | 7119     | 0.262 | ng/ul# | 92       |
| 26) Benzo(a)pyrene          | 23.813 | 252  | 6283     | 0.250 | ng/ul  | 92       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.431 | 276  | 8738     | 0.247 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.441 | 278  | 6965     | 0.247 | ng/ul# | 93       |
| 29) Benzo(g,h,i)perylene    | 27.203 | 276  | 7424     | 0.241 | ng/ul  | 97       |

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

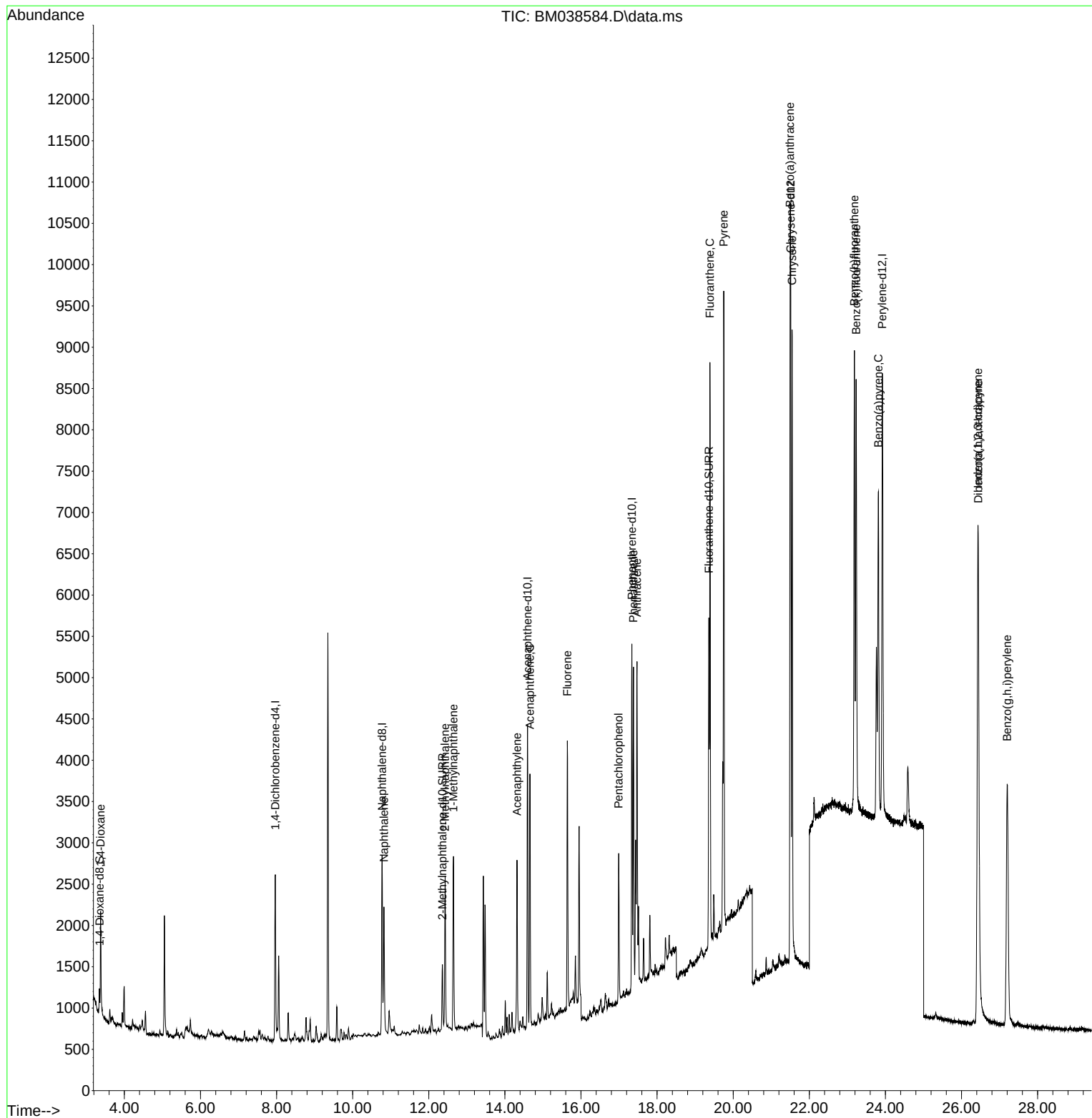
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012623\  
Data File : BM038584.D  
Acq On : 27 Jan 2023 13:48  
Operator : CG/JU  
Sample : 01226-09MS  
Misc :  
ALS Vial : 43 Sample Multiplier: 1

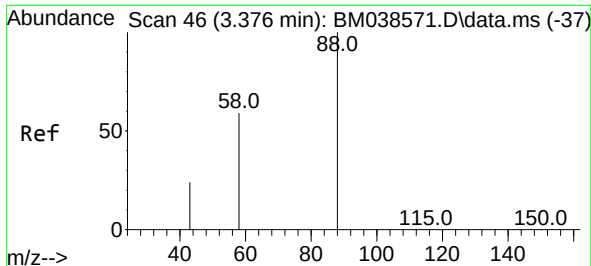
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS

Quant Time: Jan 27 21:59:43 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM012623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 27 00:18:15 2023  
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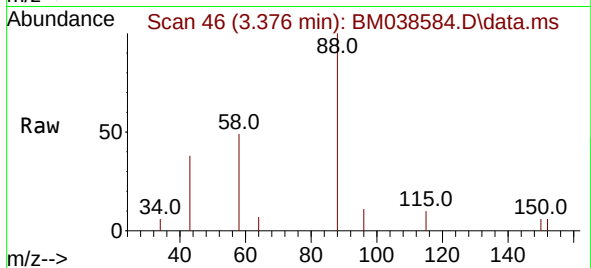
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023





#2  
1,4-Dioxane  
Concen: 0.551 ng/ul  
RT: 3.376 min Scan# 46  
Delta R.T. -0.004 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

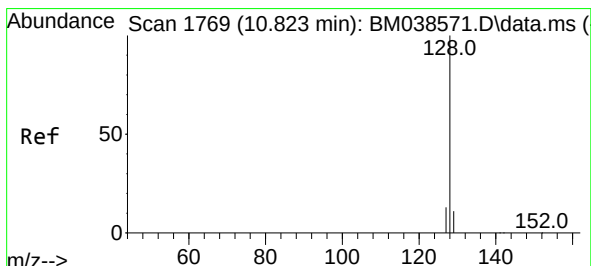
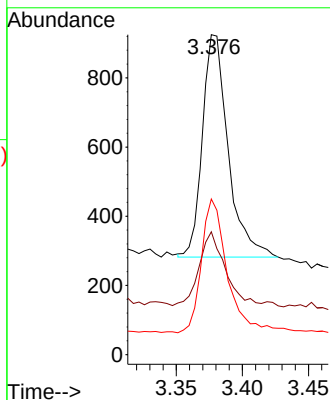
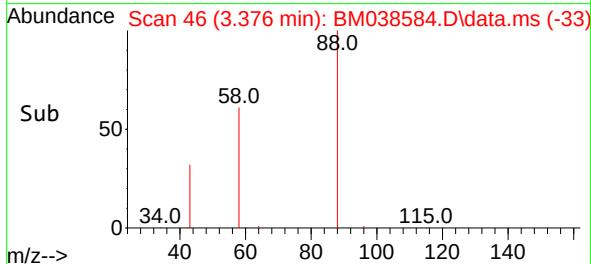
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



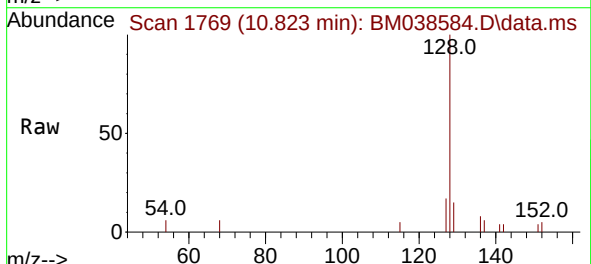
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Ion Ratio Lower Upper  
88 100  
43 38.4 141.3 211.9  
58 48.6 45.7 68.5

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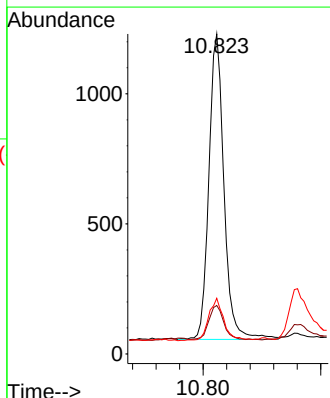
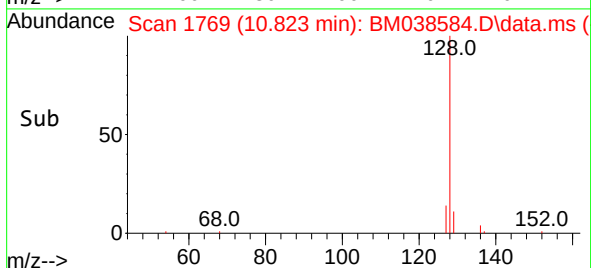
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

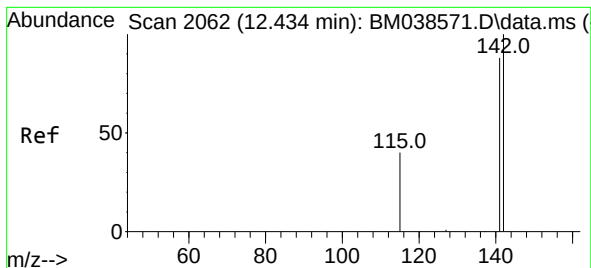


#5  
Naphthalene  
Concen: 0.199 ng/ul  
RT: 10.823 min Scan# 1769  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48



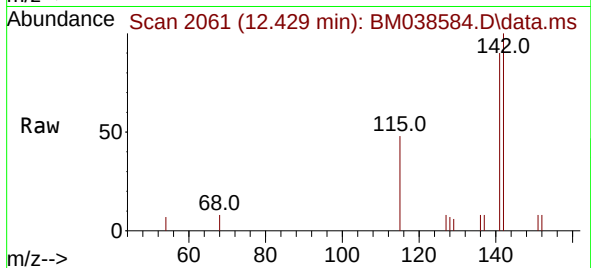
Tgt Ion:128 Resp: 2090  
Ion Ratio Lower Upper  
128 100  
129 15.1 10.3 15.5  
127 17.4 11.9 17.9





#7  
2-Methylnaphthalene  
Concen: 0.243 ng/ul  
RT: 12.429 min Scan# 2061  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

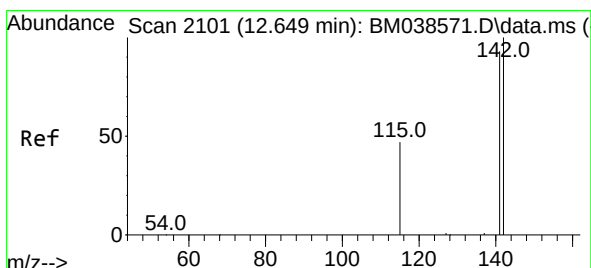
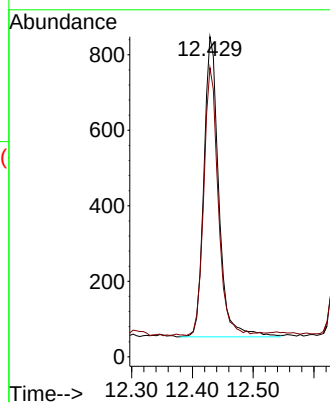
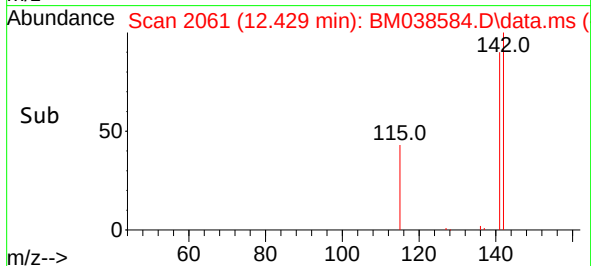
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



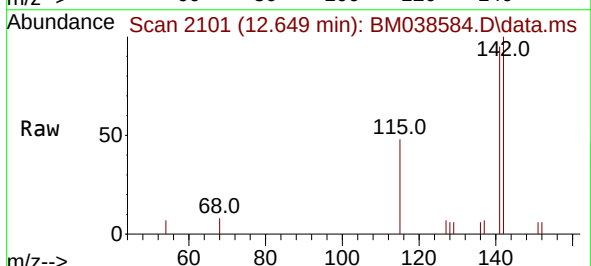
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Ion Ratio Lower Upper  
142 100  
141 86.5 73.7 110.5

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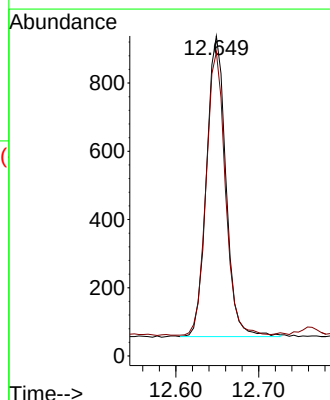
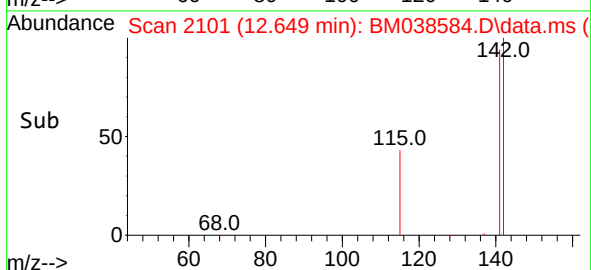
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

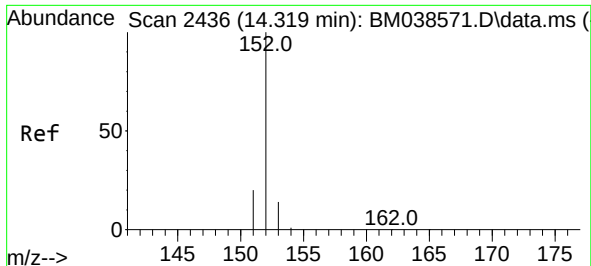


#8  
1-Methylnaphthalene  
Concen: 0.249 ng/ul  
RT: 12.649 min Scan# 2101  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48



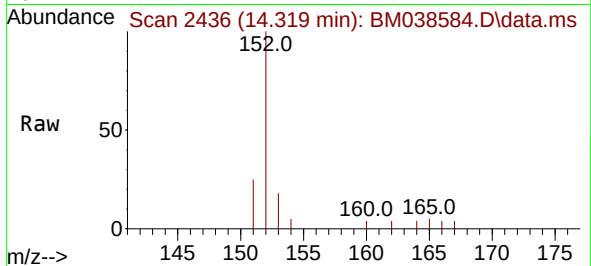
Tgt Ion:142 Resp: 1426  
Ion Ratio Lower Upper  
142 100  
141 93.5 74.0 111.0





#10  
Acenaphthylene  
Concen: 0.259 ng/ul  
RT: 14.319 min Scan# 2436  
Delta R.T. -0.005 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

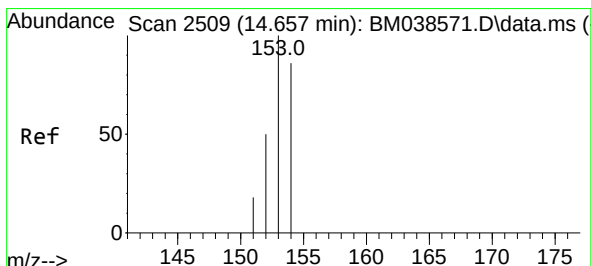
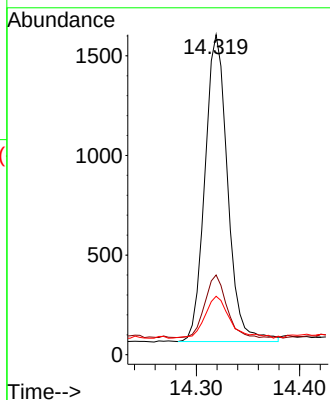
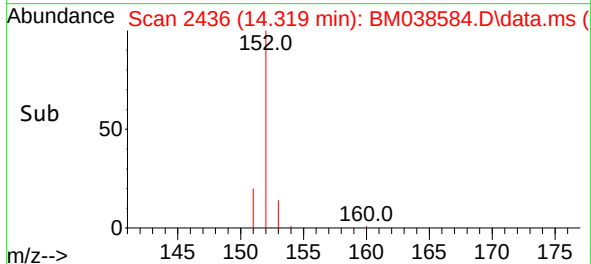
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BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:152 Resp: 2354  
Ion Ratio Lower Upper  
152 100  
151 24.9 16.3 24.5  
153 18.2 11.8 17.6

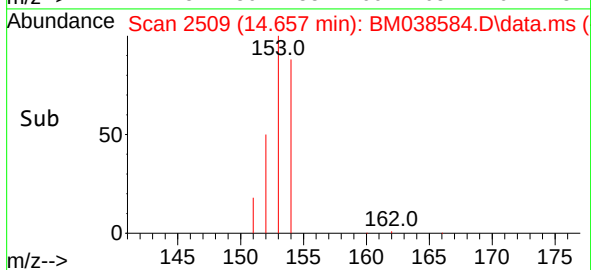
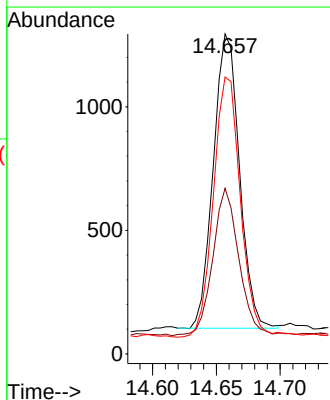
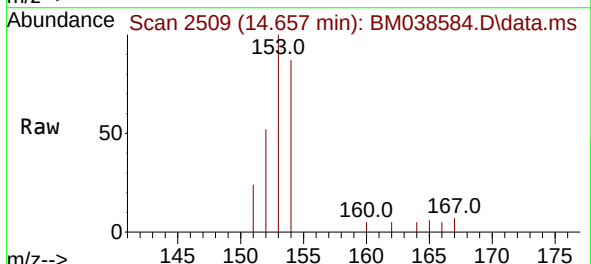
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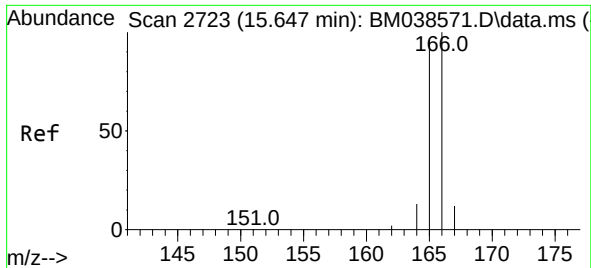
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#11  
Acenaphthene  
Concen: 0.245 ng/ul  
RT: 14.657 min Scan# 2509  
Delta R.T. -0.005 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

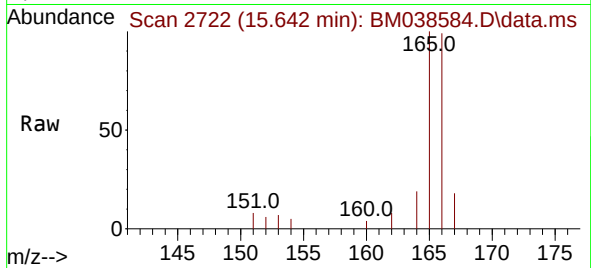
Tgt Ion:153 Resp: 1699  
Ion Ratio Lower Upper  
153 100  
152 51.7 40.1 60.1  
154 86.6 68.4 102.6





#12  
Fluorene  
Concen: 0.251 ng/ul  
RT: 15.642 min Scan# 2168  
Delta R.T. -0.005 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

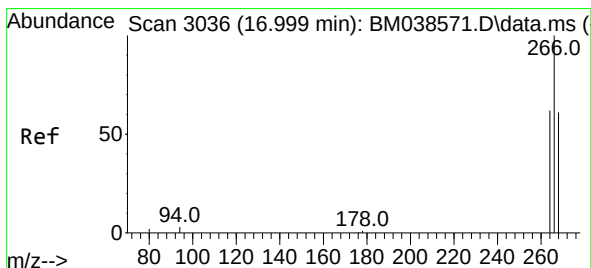
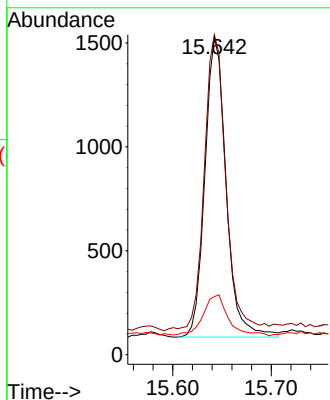
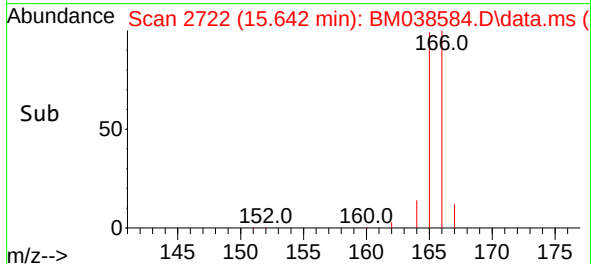
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:166 Resp: 2168  
Ion Ratio Lower Upper  
166 100  
165 100.6 79.3 118.9  
167 18.3 11.9 17.9

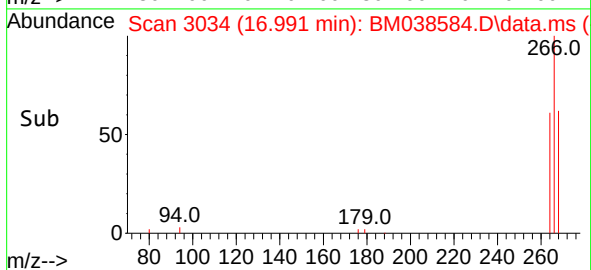
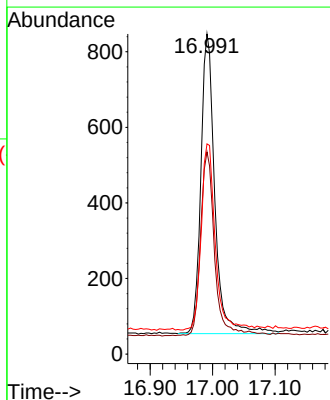
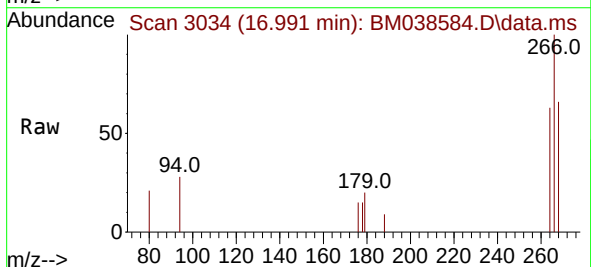
Manual Integrations  
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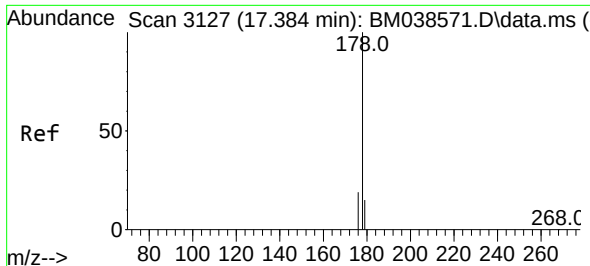
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#14  
Pentachlorophenol  
Concen: 0.572 ng/ul  
RT: 16.991 min Scan# 3034  
Delta R.T. -0.008 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

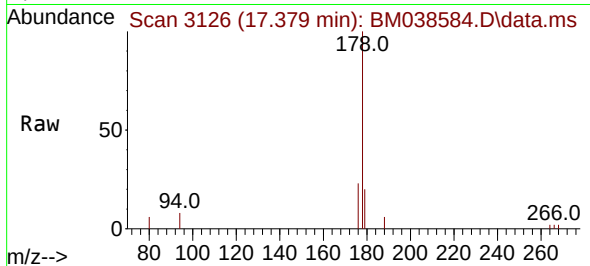
Tgt Ion:266 Resp: 1232  
Ion Ratio Lower Upper  
266 100  
264 61.4 49.4 74.2  
268 63.1 51.7 77.5





#15  
Phenanthrene  
Concen: 0.243 ng/u1  
RT: 17.379 min Scan# 3126  
Delta R.T. -0.004 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

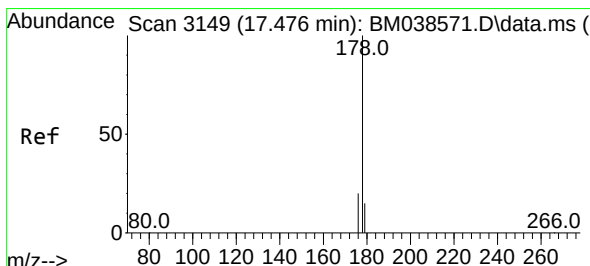
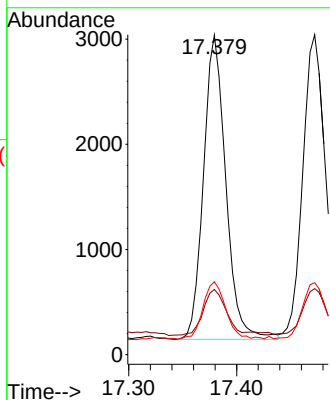
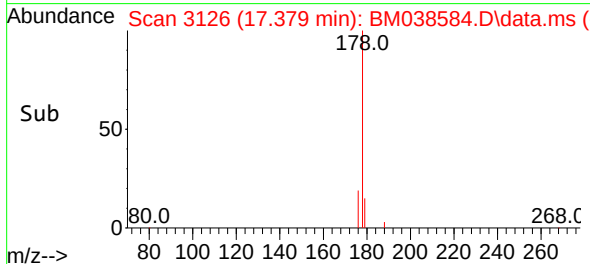
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



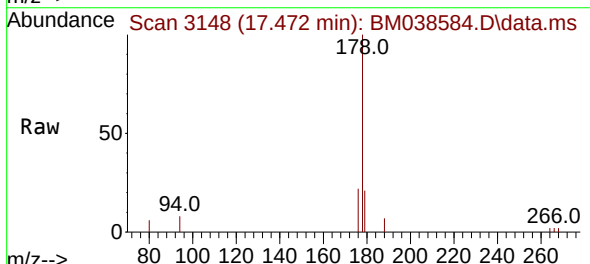
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176 22.9 16.4 24.6

Manual Integrations  
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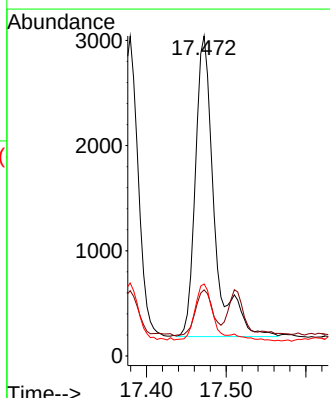
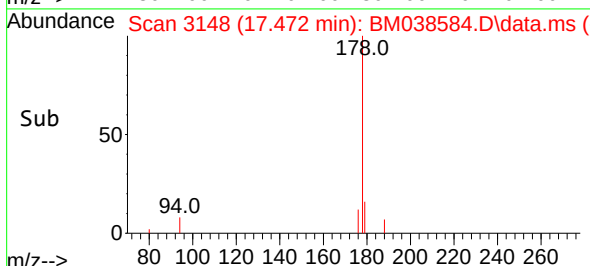
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

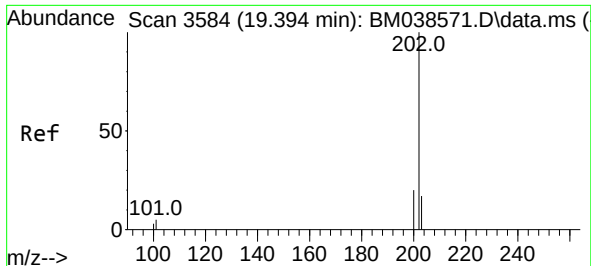


#16  
Anthracene  
Concen: 0.324 ng/u1 m  
RT: 17.472 min Scan# 3148  
Delta R.T. -0.004 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48



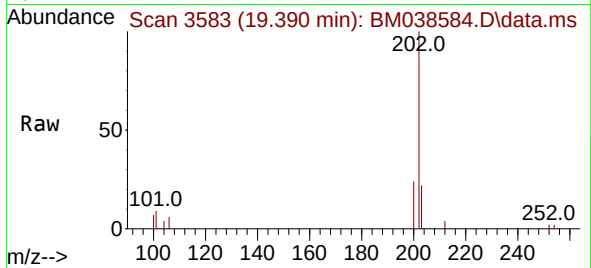
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Ion Ratio Lower Upper  
178 100  
179 20.7 13.2 19.8  
176 22.5 16.2 24.4





#19  
Fluoranthene  
Concen: 0.258 ng/u1  
RT: 19.390 min Scan# 3583  
Delta R.T. -0.005 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

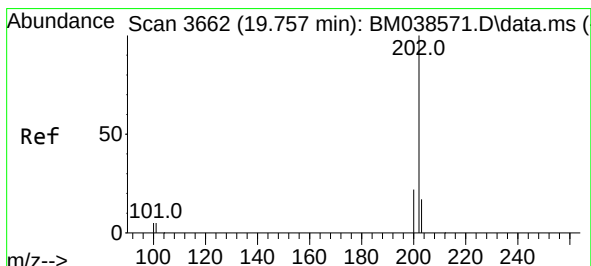
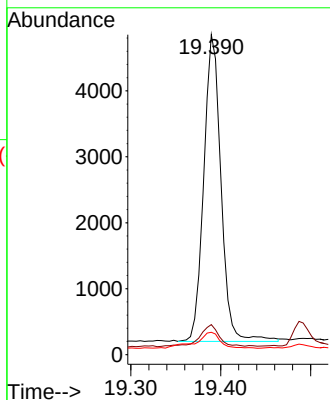
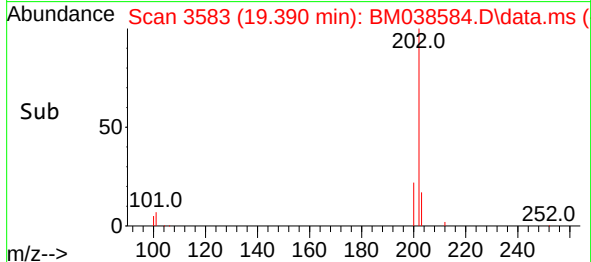
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:202 Resp: 6219  
Ion Ratio Lower Upper  
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100 7.0 4.2 6.2#

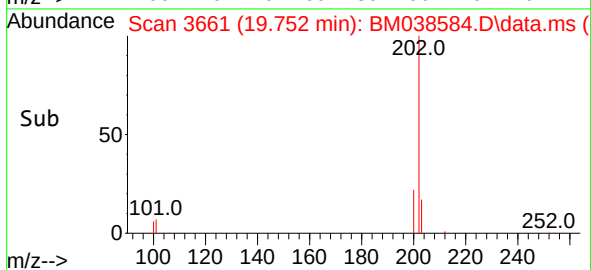
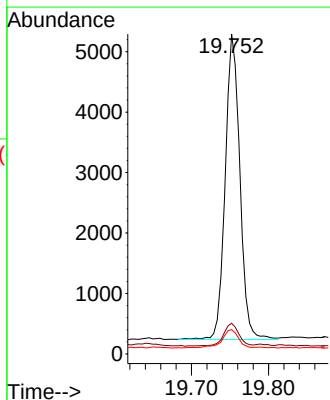
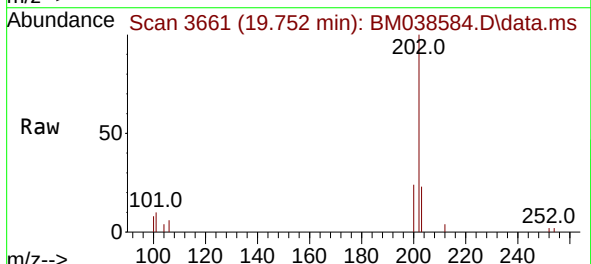
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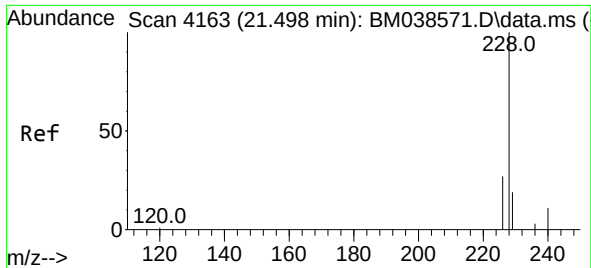


#20  
Pyrene  
Concen: 0.257 ng/u1  
RT: 19.752 min Scan# 3661  
Delta R.T. -0.005 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

Tgt Ion:202 Resp: 6666  
Ion Ratio Lower Upper  
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100 7.6 5.2 7.8

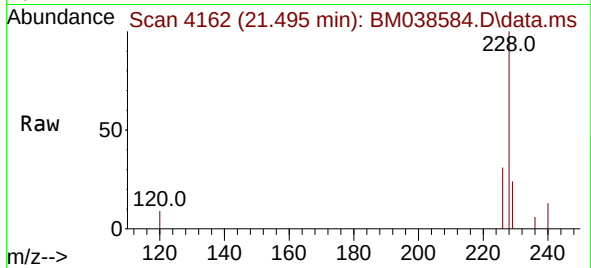






#21  
Benzo(a)anthracene  
Concen: 0.277 ng/ul  
RT: 21.495 min Scan# 4163  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

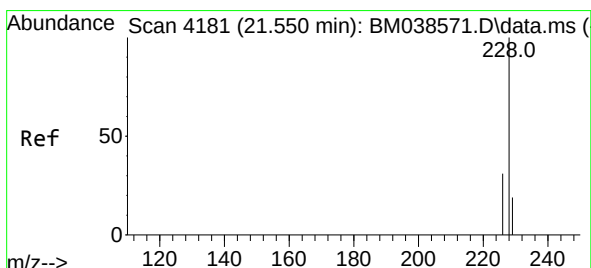
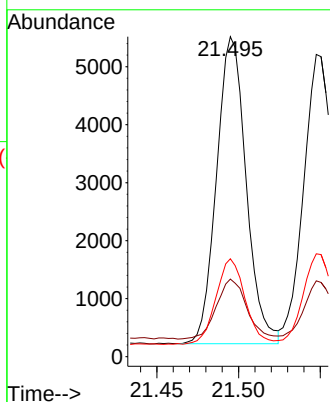
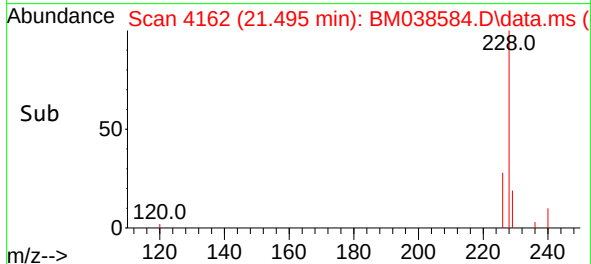
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



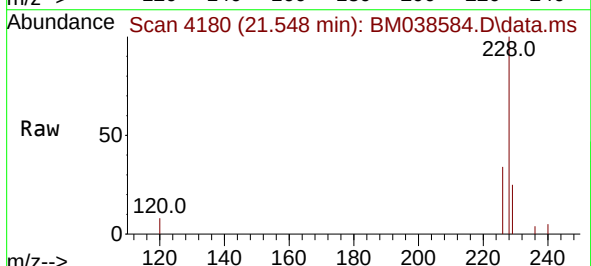
Tgt Ion:228 Resp: 6678  
Ion Ratio Lower Upper  
228 100  
229 24.3 16.7 25.1  
226 30.6 22.2 33.4

Manual Integrations  
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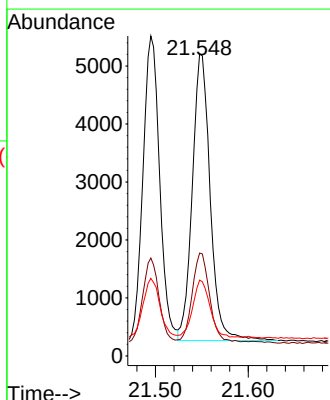
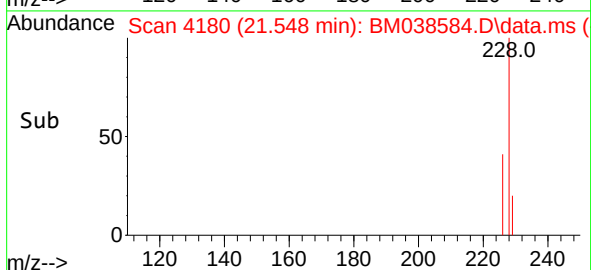
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023

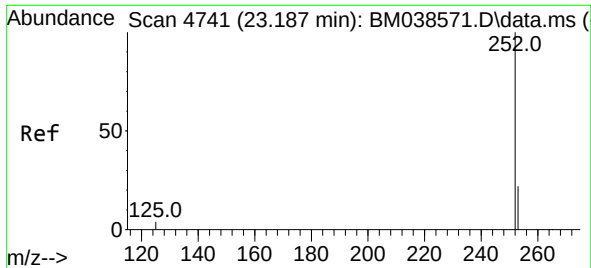


#22  
Chrysene  
Concen: 0.274 ng/ul  
RT: 21.548 min Scan# 4180  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48



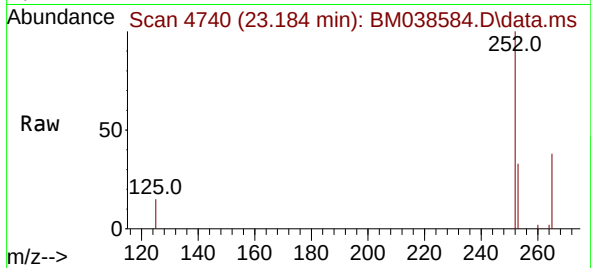
Tgt Ion:228 Resp: 6624  
Ion Ratio Lower Upper  
228 100  
226 34.0 24.6 36.8  
229 25.1 16.2 24.4





#24  
Benzo(b)fluoranthene  
Concen: 0.263 ng/ul  
RT: 23.184 min Scan# 4741  
Delta R.T. -0.006 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

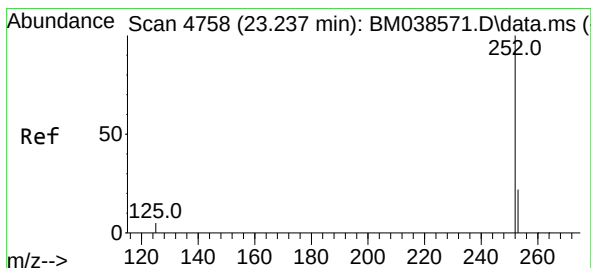
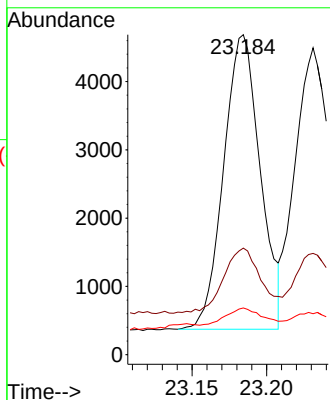
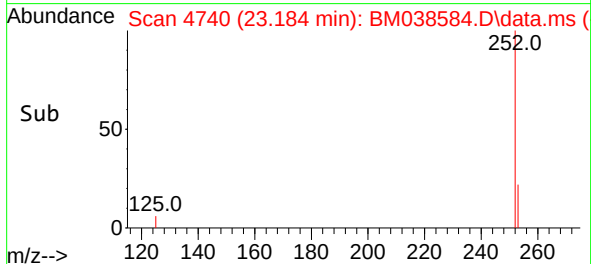
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



Tgt Ion:252 Resp: 736  
Ion Ratio Lower Upper  
252 100  
253 33.3 0.0 56.6  
125 14.6 0.0 21.4

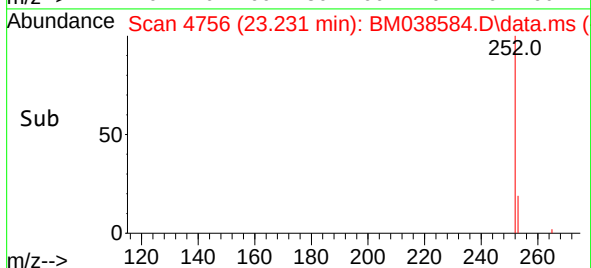
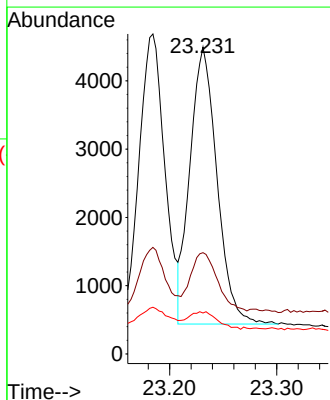
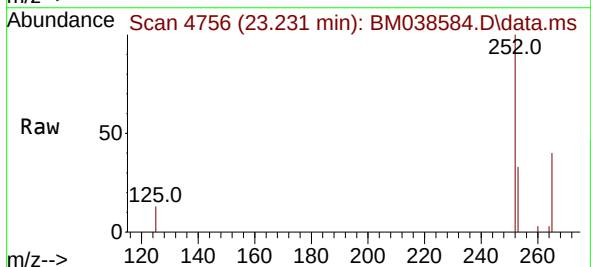
Manual Integrations  
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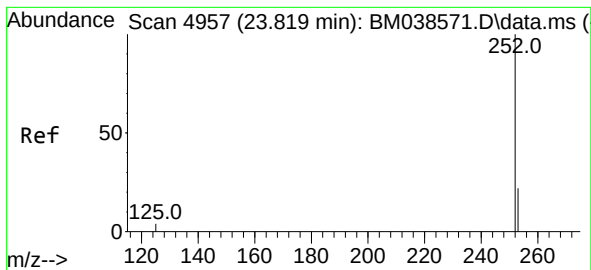
Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.262 ng/ul  
RT: 23.231 min Scan# 4756  
Delta R.T. -0.009 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

Tgt Ion:252 Resp: 7119  
Ion Ratio Lower Upper  
252 100  
253 33.0 23.1 34.7  
125 13.4 8.4 12.6#





#26

Benzo(a)pyrene

Concen: 0.250 ng/ul

RT: 23.813 min Scan# 4957

Delta R.T. -0.009 min

Lab File: BM038584.D

Acq: 27 Jan 2023 13:48

Instrument :

BNM

ClientSampleId :

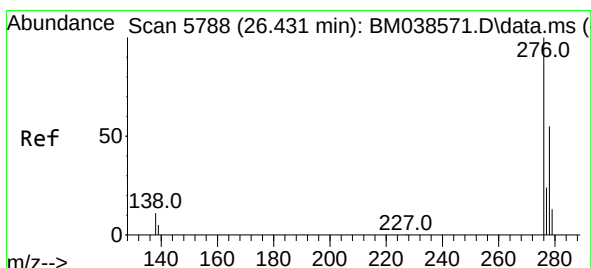
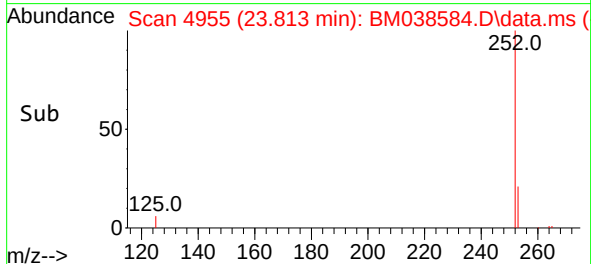
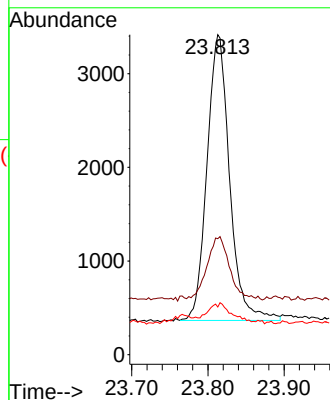
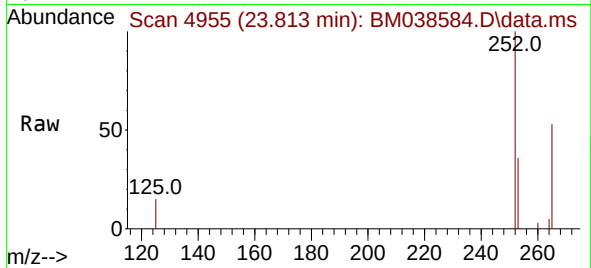
EX9G4MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 628  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 36.3  | 25.1  | 37.7 |
| 125       | 14.9  | 10.0  | 15.0 |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.247 ng/ul

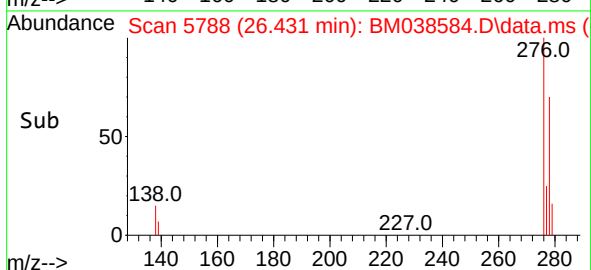
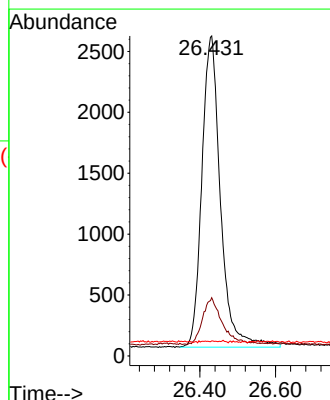
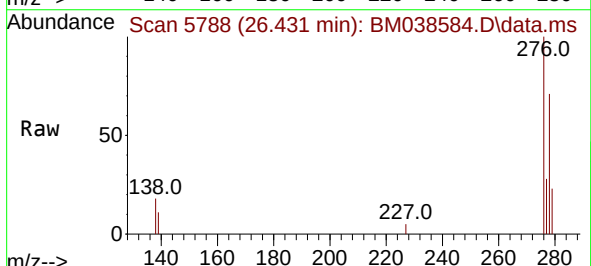
RT: 26.431 min Scan# 5788

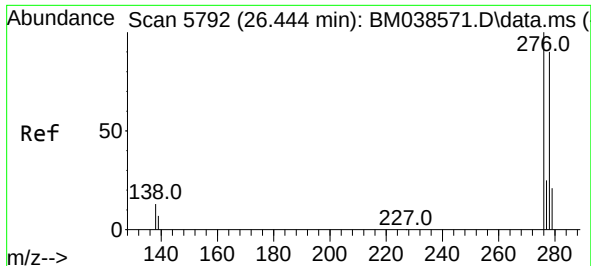
Delta R.T. -0.010 min

Lab File: BM038584.D

Acq: 27 Jan 2023 13:48

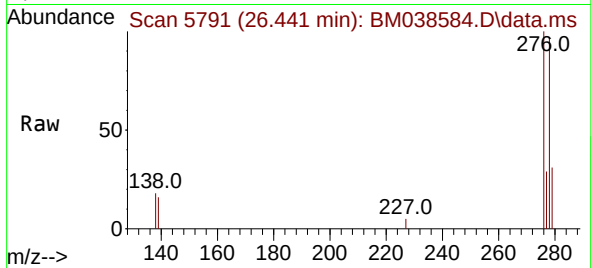
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 8738 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 16.1  | 11.7  | 17.5 |
| 227       | 0.1   | 0.3   | 0.5  |





#28  
Dibenzo(a,h)anthracene  
Concen: 0.247 ng/ul  
RT: 26.441 min Scan# 5792  
Delta R.T. -0.017 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48

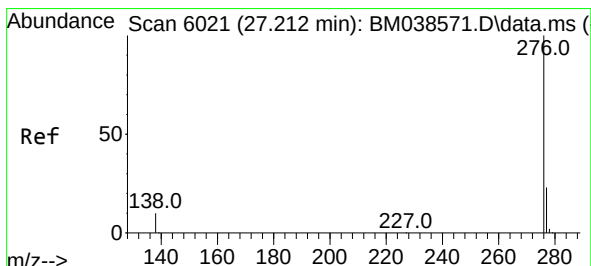
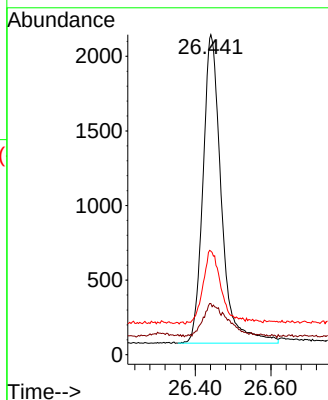
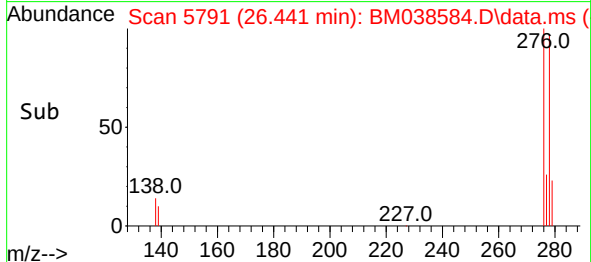
Instrument :  
BNA\_M  
ClientSampleId :  
EX9G4MS



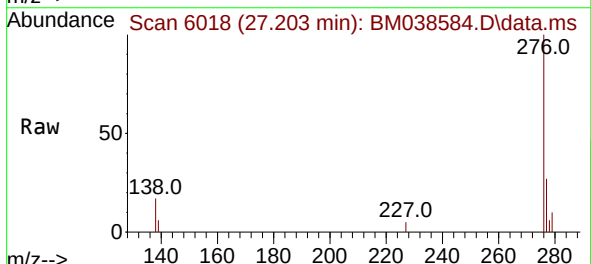
Tgt Ion:278 Resp: 696  
Ion Ratio Lower Upper  
278 100  
139 16.0 9.8 14.8  
279 32.4 23.3 34.9

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 01/30/2023  
Supervised By :mohammad ahmed 01/30/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.241 ng/ul  
RT: 27.203 min Scan# 6018  
Delta R.T. -0.017 min  
Lab File: BM038584.D  
Acq: 27 Jan 2023 13:48



Tgt Ion:276 Resp: 7424  
Ion Ratio Lower Upper  
276 100  
138 16.7 12.6 19.0  
277 27.2 20.5 30.7

