

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072921\  
 Data File : BM031276.D  
 Acq On : 30 Jul 2021 13:07  
 Operator : CG/JU  
 Sample : M3084-07  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0025

Manual Integrations  
 APPROVED

mohammad  
 8/2/2021 3:40:01 PM

Quant Time: Jul 30 13:45:35 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 30 09:57:24 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|------|--------|----------|
| -----                       |        |      |          |      |        |          |
| Internal Standards          |        |      |          |      |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.611  | 152  | 1735     | 0.40 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.374 | 136  | 6510     | 0.40 | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.239 | 164  | 4455     | 0.40 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.989 | 188  | 7963     | 0.40 | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.181 | 240  | 6597     | 0.40 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.346 | 264  | 6277     | 0.40 | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |      |        |          |
| 3) 1,4-Dioxane-d8           | 3.199  | 96   | 4534     | 2.35 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.966 | 152  | 1613     | 0.15 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.020 | 212  | 3577     | 0.16 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |      |        |          |
|                             |        |      |          |      | Qvalue |          |
| 5) Naphthalene              | 10.424 | 128  | 38082    | 1.96 | ng/ul  | 98       |
| 7) 2-Methylnaphthalene      | 12.043 | 142  | 41509    | 3.13 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.263 | 142  | 23602    | 1.80 | ng/ul  | 100      |
| 10) Acenaphthylene          | 13.959 | 152  | 8226     | 0.43 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.303 | 153  | 3894m    | 0.24 | ng/ul  |          |
| 12) Fluorene                | 15.297 | 166  | 7270     | 0.40 | ng/ul# | 85       |
| 15) Phenanthrene            | 17.030 | 178  | 109193   | 4.32 | ng/ul  | 98       |
| 16) Anthracene              | 17.120 | 178  | 13641    | 0.58 | ng/ul  | 98       |
| 19) Fluoranthene            | 19.050 | 202  | 79327    | 2.82 | ng/ul# | 95       |
| 20) Pyrene                  | 19.416 | 202  | 74148    | 2.60 | ng/ul  | 96       |
| 21) Benzo(a)anthracene      | 21.164 | 228  | 48566    | 1.82 | ng/ul# | 87       |
| 22) Chrysene                | 21.217 | 228  | 88654    | 3.22 | ng/ul# | 95       |
| 24) Benzo(b)fluoranthene    | 22.703 | 252  | 72060m   | 2.55 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.742 | 252  | 24573m   | 0.84 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.251 | 252  | 36240    | 1.46 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.490 | 276  | 23625    | 0.74 | ng/ul# | 97       |
| 28) Dibenzo(a,h)anthracene  | 25.497 | 278  | 9133     | 0.35 | ng/ul# | 69       |
| 29) Benzo(g,h,i)perylene    | 26.149 | 276  | 21361    | 0.78 | ng/ul  | 96       |
| -----                       |        |      |          |      |        |          |

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

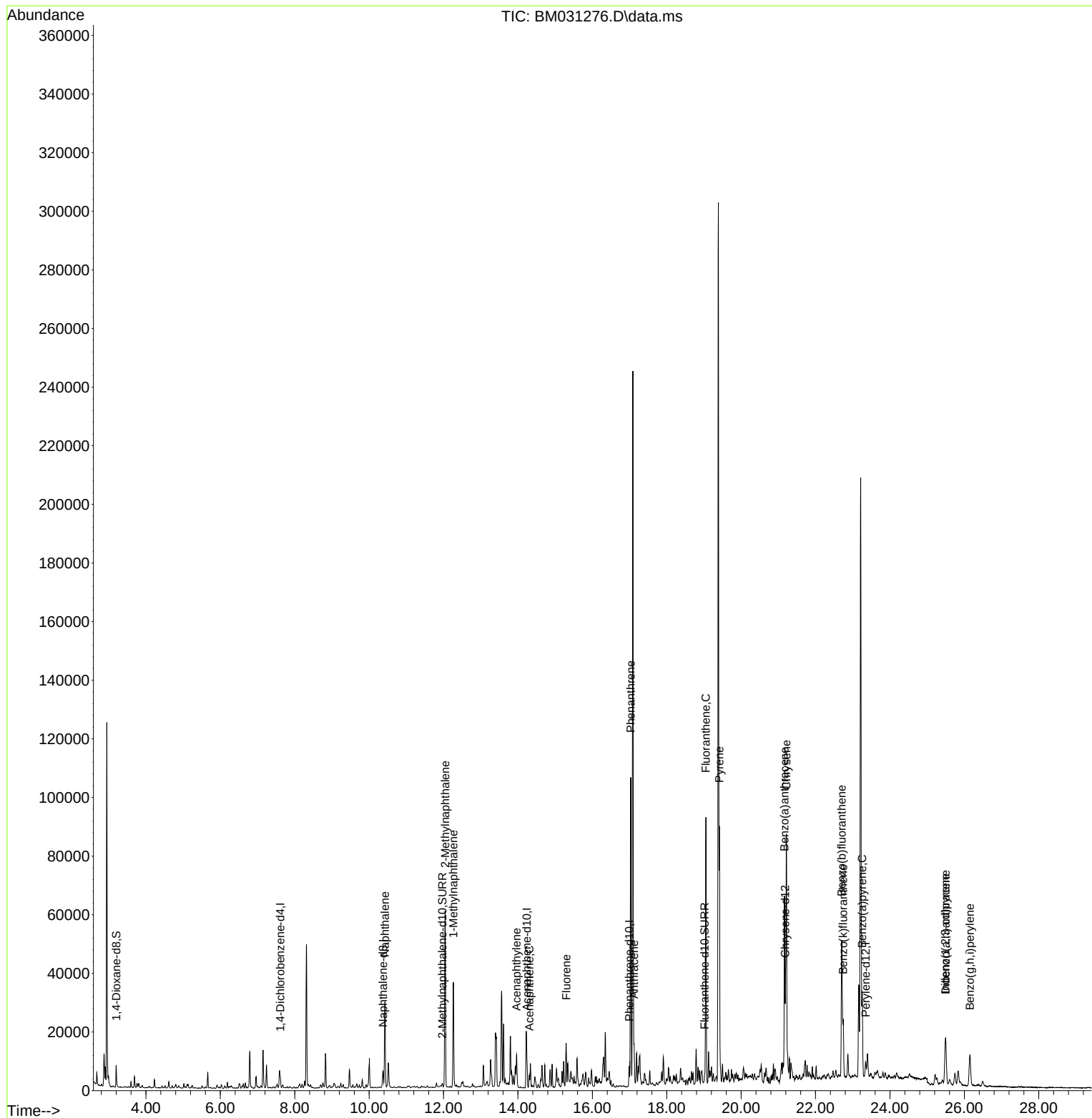
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM072921\  
Data File : BM031276.D  
Acq On : 30 Jul 2021 13:07  
Operator : CG/JU  
Sample : M3084-07  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

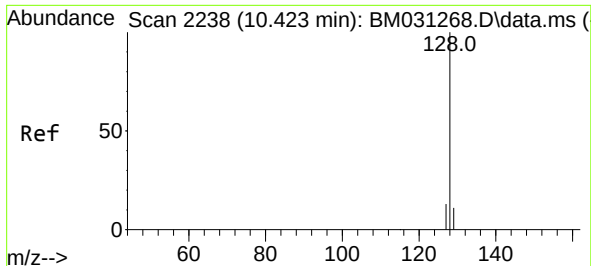
Instrument :  
BNA\_M  
ClientSampleId :  
C0025

Manual Integrations  
APPROVED

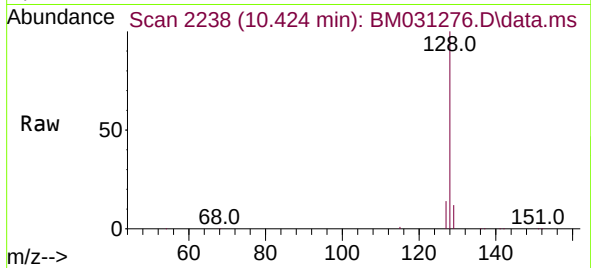
mohammad  
8/2/2021 3:40:01 PM

Quant Time: Jul 30 13:45:35 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SFAM-EPA-SIM-BM072821.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 30 09:57:24 2021  
Response via : Initial Calibration

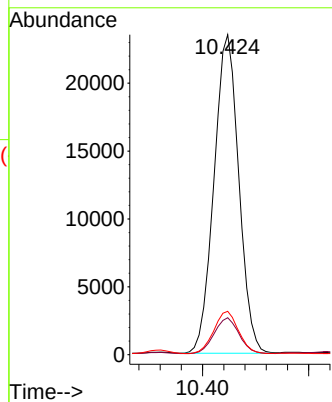
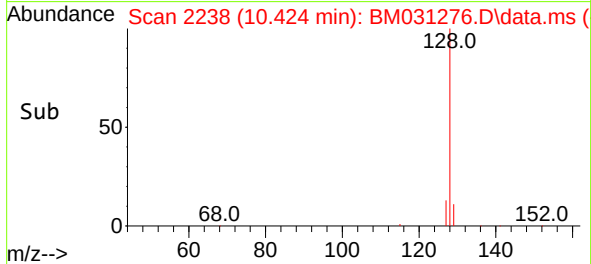




#5  
Naphthalene  
Concen: 1.96 ng/ul  
RT: 10.424 min Scan# 2238  
Delta R.T. 0.001 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



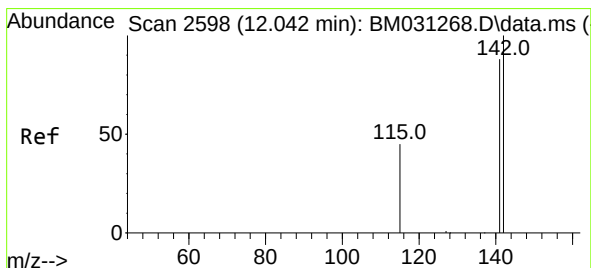
Tgt Ion:128 Resp: 38082  
Ion Ratio Lower Upper  
128 100  
129 11.6 10.0 15.0  
127 13.5 11.6 17.4



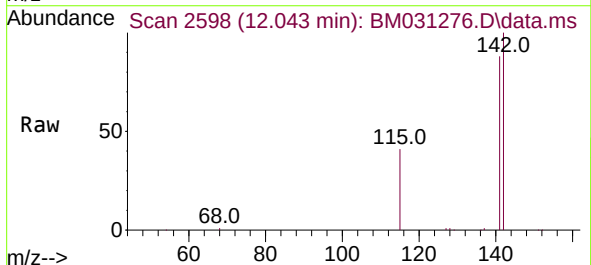
Instrument :  
BNA\_M  
ClientSampled :  
C0025

Manual Integrations  
APPROVED

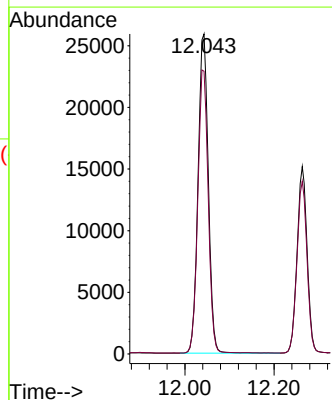
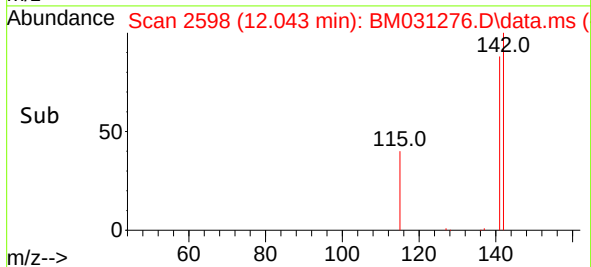
mohammad  
8/2/2021 3:40:01 PM

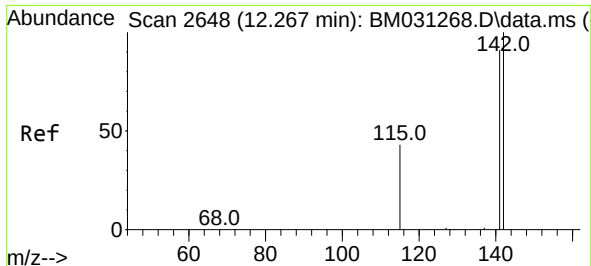


#7  
2-Methylnaphthalene  
Concen: 3.13 ng/ul  
RT: 12.043 min Scan# 2598  
Delta R.T. 0.001 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



Tgt Ion:142 Resp: 41509  
Ion Ratio Lower Upper  
142 100  
141 89.4 71.4 107.0





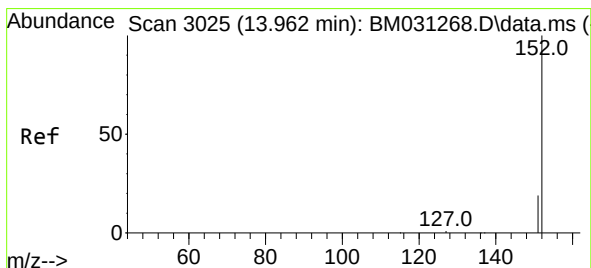
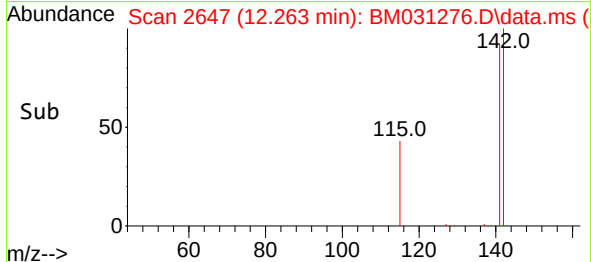
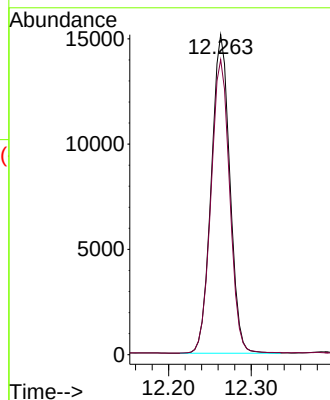
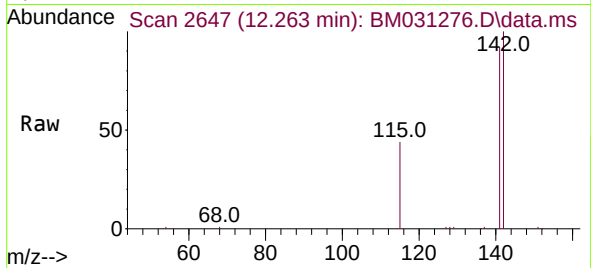
#8  
1-Methylnaphthalene  
Concen: 1.80 ng/ul  
RT: 12.263 min Scan# 2647  
Delta R.T. -0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:142 Resp: 23602  
Ion Ratio Lower Upper  
142 100  
141 92.7 74.1 111.1

Instrument :  
BNA\_M  
ClientSampled :  
C0025

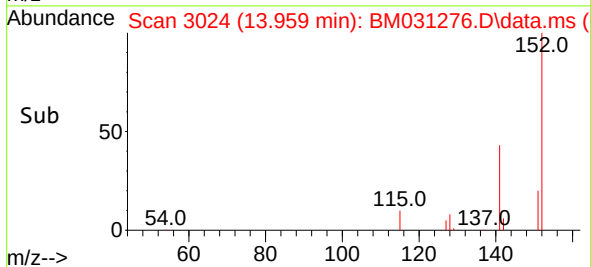
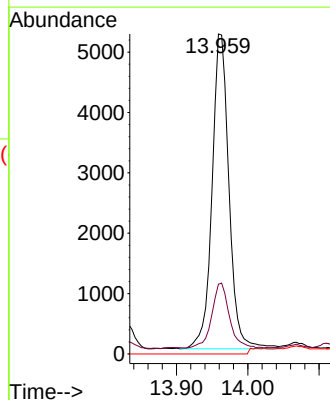
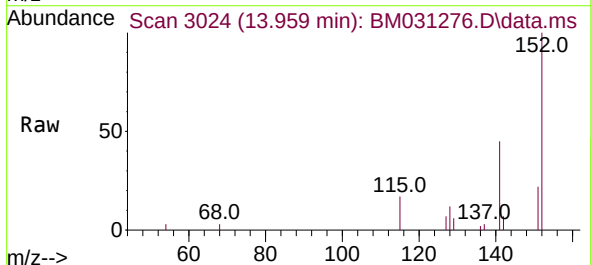
Manual Integrations  
APPROVED

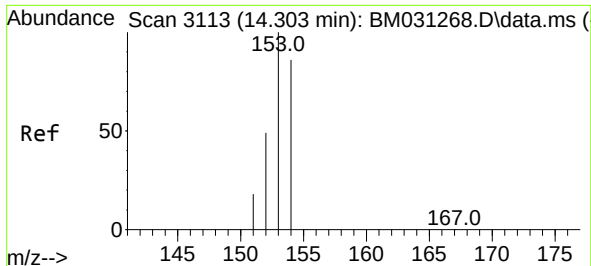
mohammad  
8/2/2021 3:40:01 PM



#10  
Acenaphthylene  
Concen: 0.43 ng/ul  
RT: 13.959 min Scan# 3024  
Delta R.T. -0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

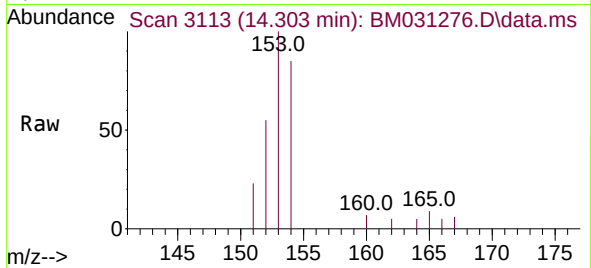
Tgt Ion:152 Resp: 8226  
Ion Ratio Lower Upper  
152 100  
151 21.8 16.9 25.3  
153 0.0 0.0 0.0





#11  
Acenaphthene  
Concen: 0.24 ng/ul m  
RT: 14.303 min Scan# 3113  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

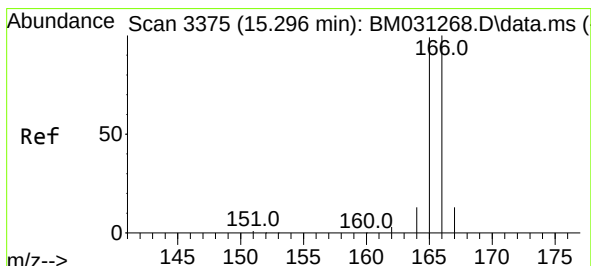
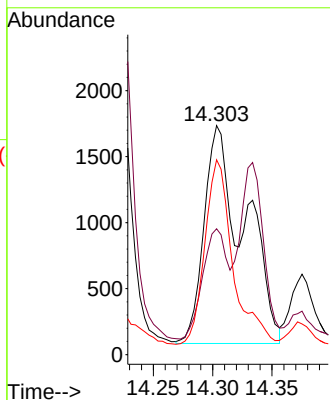
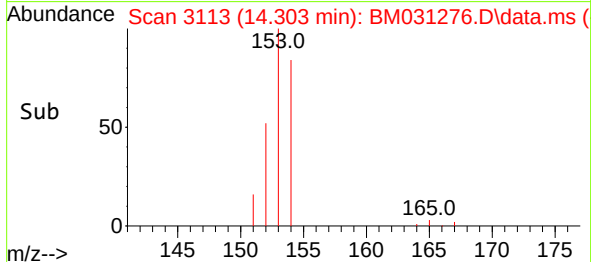
Instrument :  
BNA\_M  
ClientSampled :  
C0025



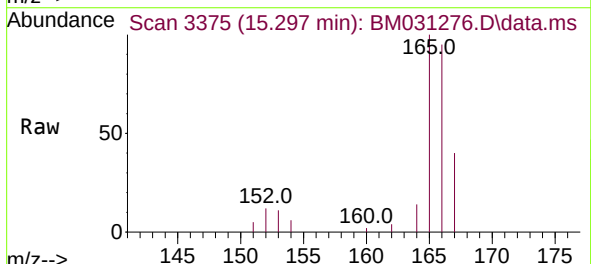
Tgt Ion:153 Resp: 3894  
Ion Ratio Lower Upper  
153 100  
152 55.0 40.7 61.1  
154 85.1 70.2 105.2

Manual Integrations  
APPROVED

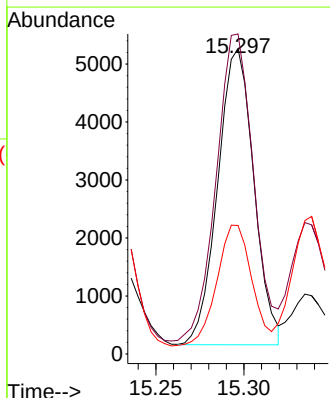
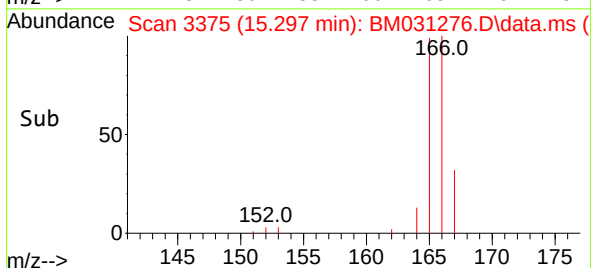
mohammad  
8/2/2021 3:40:01 PM

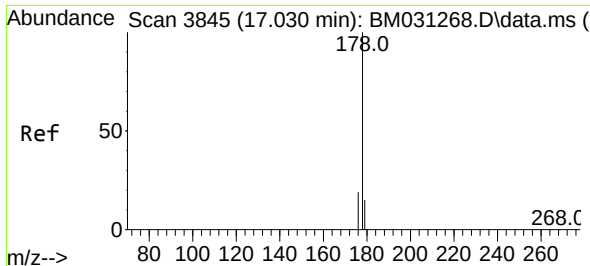


#12  
Fluorene  
Concen: 0.40 ng/ul  
RT: 15.297 min Scan# 3375  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



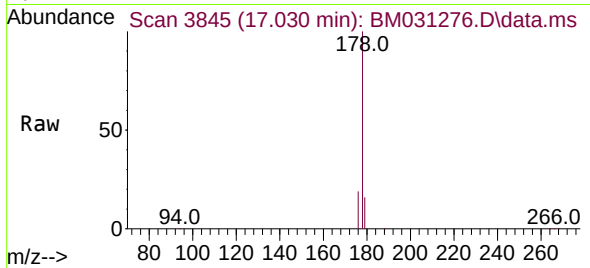
Tgt Ion:166 Resp: 7270  
Ion Ratio Lower Upper  
166 100  
165 104.8 78.0 117.0  
167 42.1 12.0 18.0#





#15  
Phenanthrene  
Concen: 4.32 ng/ul  
RT: 17.030 min Scan# 3845  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

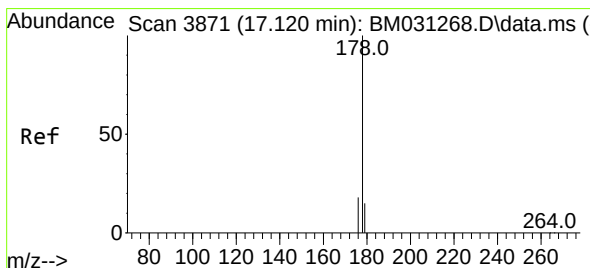
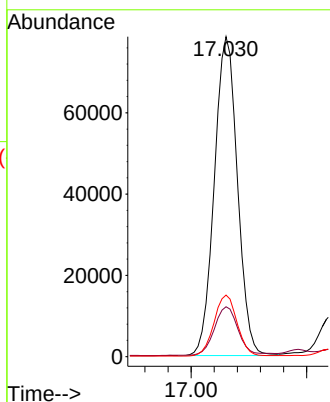
Instrument :  
BNA\_M  
ClientSampled :  
C0025



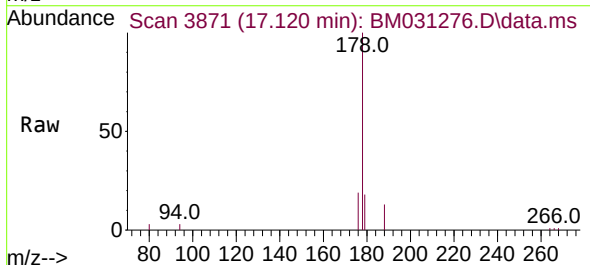
Tgt Ion:178 Resp: 109193  
Ion Ratio Lower Upper  
178 100  
179 15.6 13.3 19.9  
176 19.3 16.2 24.4

Manual Integrations  
APPROVED

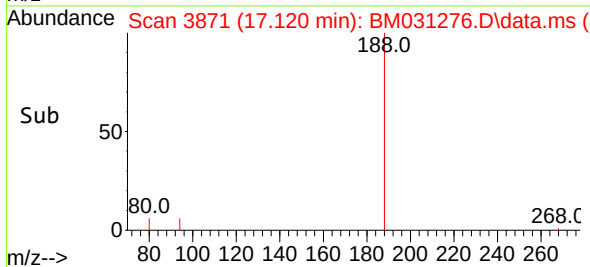
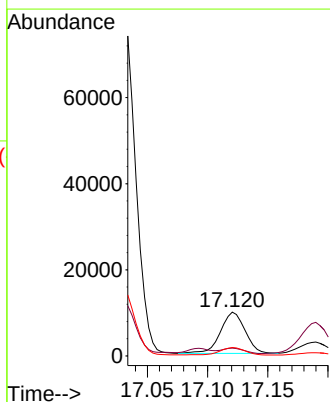
mohammad  
8/2/2021 3:40:01 PM

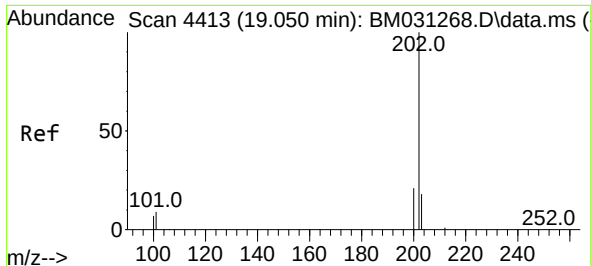


#16  
Anthracene  
Concen: 0.58 ng/ul  
RT: 17.120 min Scan# 3871  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



Tgt Ion:178 Resp: 13641  
Ion Ratio Lower Upper  
178 100  
179 18.0 13.0 19.6  
176 19.3 15.6 23.4





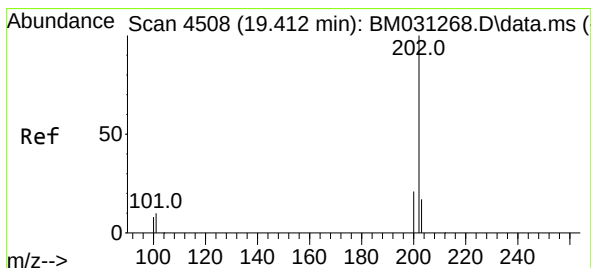
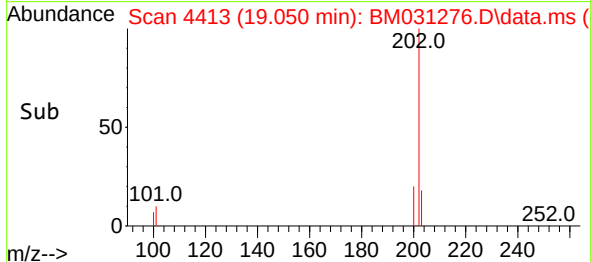
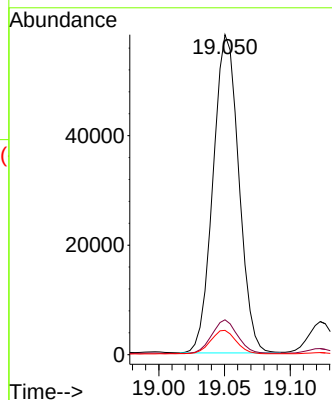
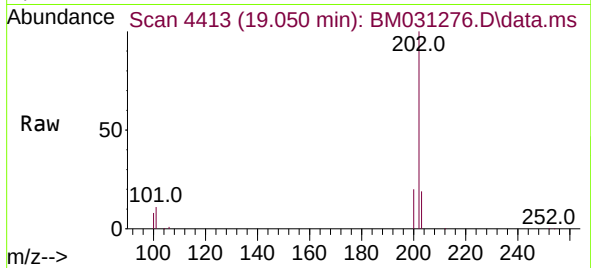
#19  
Fluoranthene  
Concen: 2.82 ng/ul  
RT: 19.050 min Scan# 4413  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:202 Resp: 79327  
Ion Ratio Lower Upper  
202 100  
101 10.9 6.6 10.0#  
100 7.6 5.4 8.0

Instrument :  
BNA\_M  
ClientSampleId :  
C0025

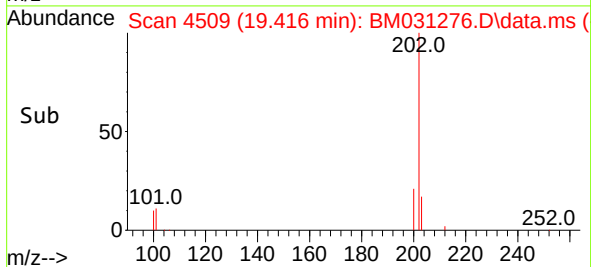
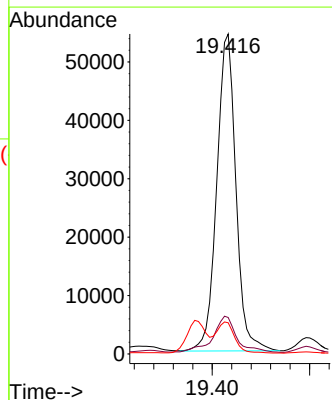
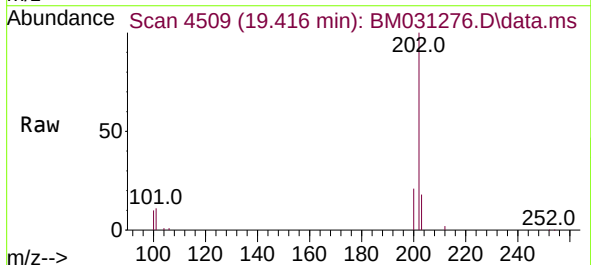
Manual Integrations  
APPROVED

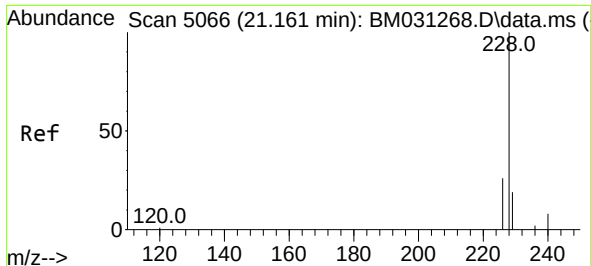
mohammad  
8/2/2021 3:40:01 PM



#20  
Pyrene  
Concen: 2.60 ng/ul  
RT: 19.416 min Scan# 4509  
Delta R.T. 0.004 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

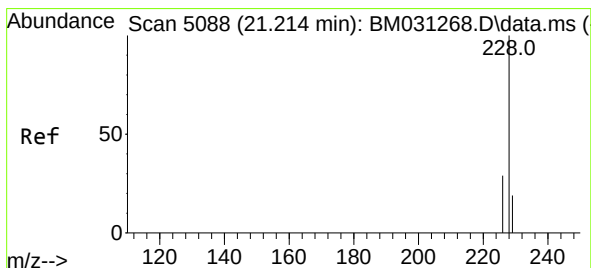
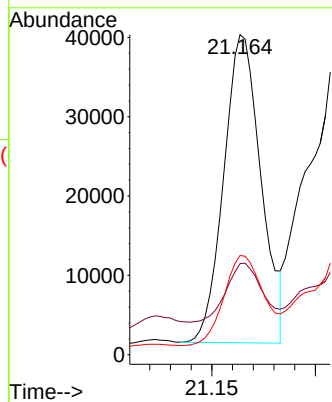
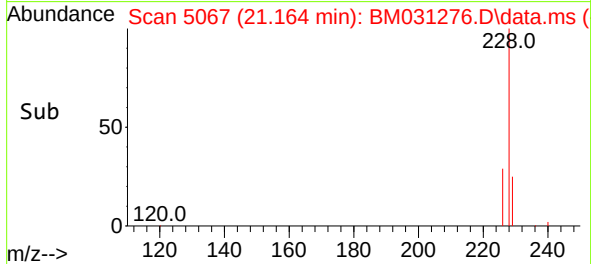
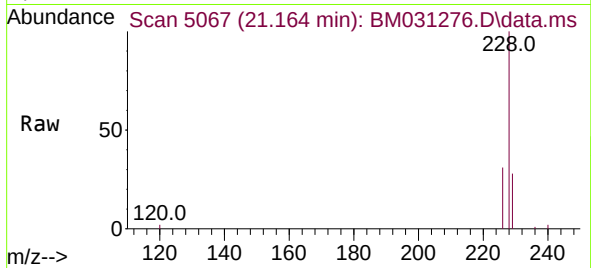
Tgt Ion:202 Resp: 74148  
Ion Ratio Lower Upper  
202 100  
101 11.4 7.8 11.6  
100 9.7 6.6 10.0





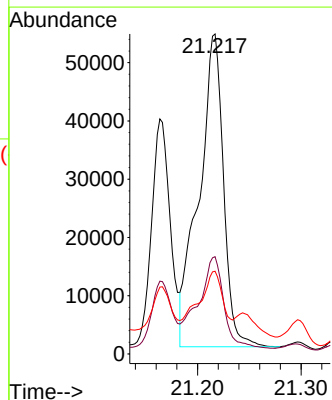
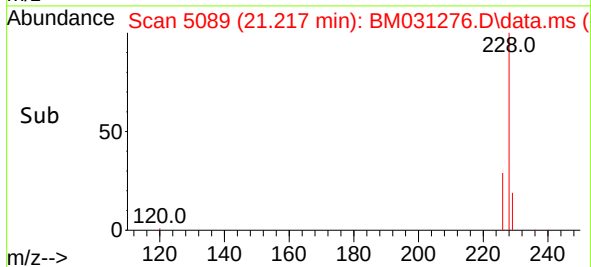
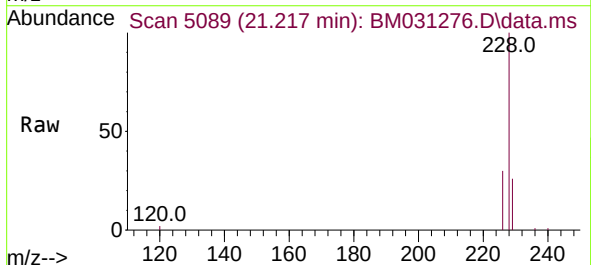
#21  
Benzo(a)anthracene  
Concen: 1.82 ng/ul  
RT: 21.164 min Scan# 5067  
Delta R.T. 0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:228 Resp: 48566  
Ion Ratio Lower Upper  
228 100  
229 28.5 15.6 23.4#  
226 31.0 21.7 32.5



#22  
Chrysene  
Concen: 3.22 ng/ul  
RT: 21.217 min Scan# 5089  
Delta R.T. 0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:228 Resp: 88654  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.7 37.1  
229 25.8 16.2 24.2#

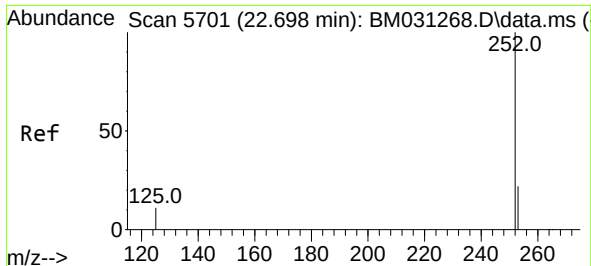


Instrument :  
BNA\_M  
ClientSampled :  
C0025

Manual Integrations  
APPROVED

mohammad  
8/2/2021 3:40:01 PM





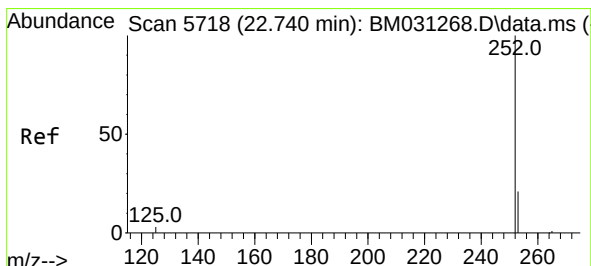
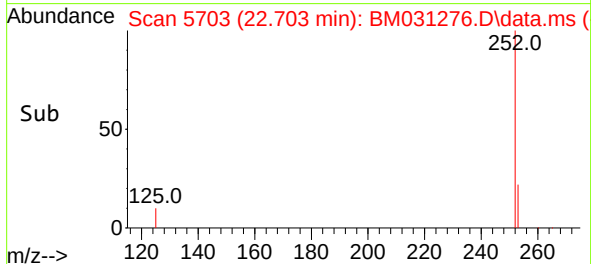
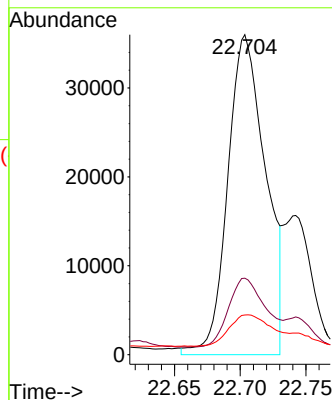
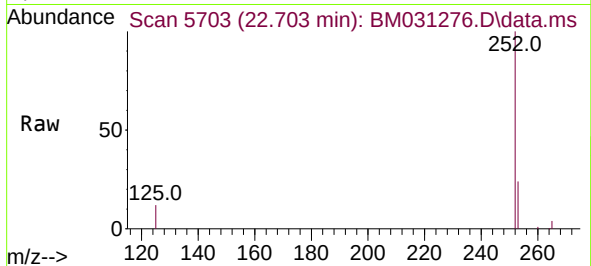
#24  
Benzo(b)fluoranthene  
Concen: 2.55 ng/ul m  
RT: 22.703 min Scan# 5703  
Delta R.T. 0.005 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:252 Resp: 72060  
Ion Ratio Lower Upper  
252 100  
253 23.9 0.0 53.0  
125 12.4 0.0 22.8

Instrument :  
BNA\_M  
ClientSampled :  
C0025

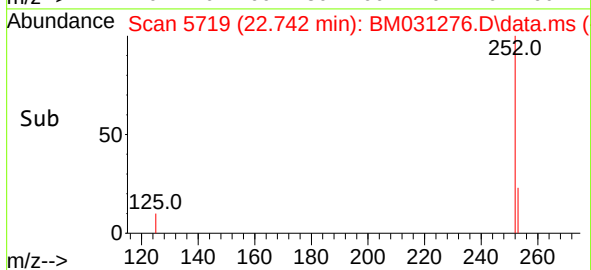
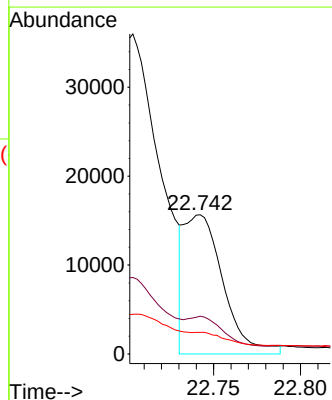
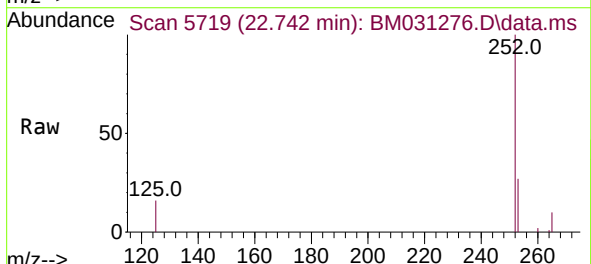
Manual Integrations  
APPROVED

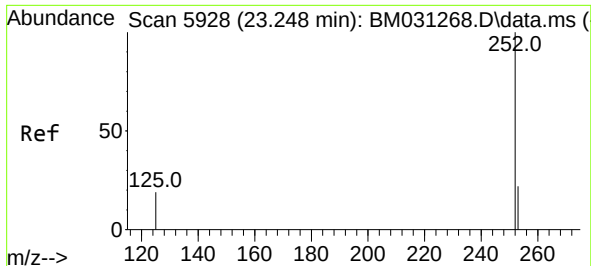
mohammad  
8/2/2021 3:40:01 PM



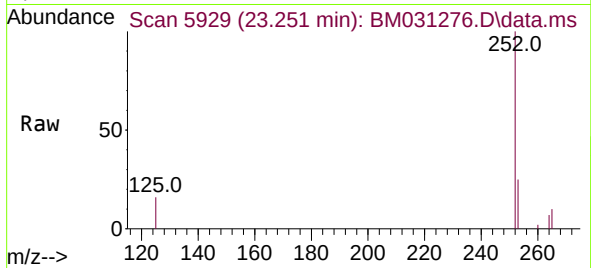
#25  
Benzo(k)fluoranthene  
Concen: 0.84 ng/ul m  
RT: 22.742 min Scan# 5719  
Delta R.T. 0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07

Tgt Ion:252 Resp: 24573  
Ion Ratio Lower Upper  
252 100  
253 27.1 21.3 31.9  
125 15.5 8.8 13.2#

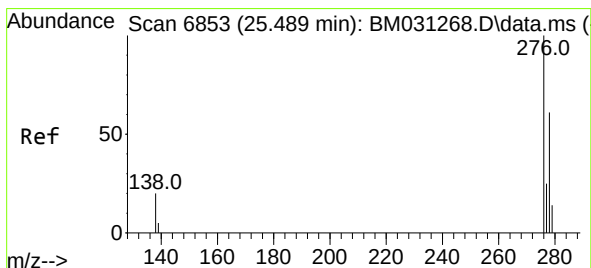
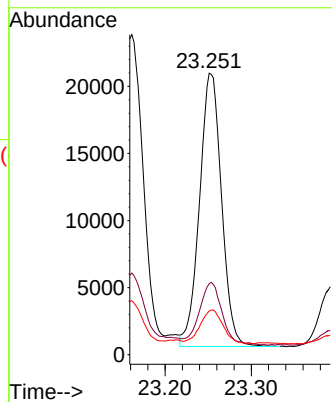
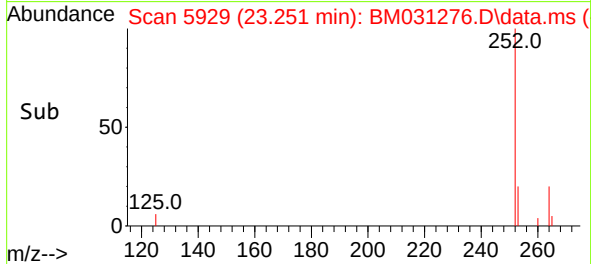




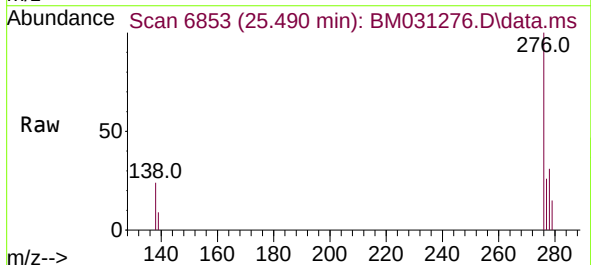
#26  
Benzo(a)pyrene  
Concen: 1.46 ng/ul  
RT: 23.251 min Scan# 5929  
Delta R.T. 0.003 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



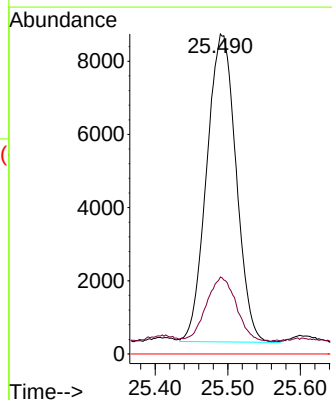
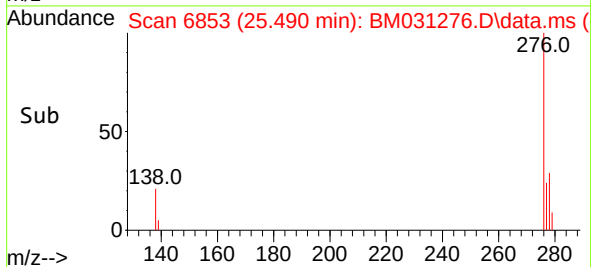
Tgt Ion:252 Resp: 36240  
Ion Ratio Lower Upper  
252 100  
253 25.2 22.4 33.6  
125 15.5 13.0 19.4



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.74 ng/ul  
RT: 25.490 min Scan# 6853  
Delta R.T. 0.000 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



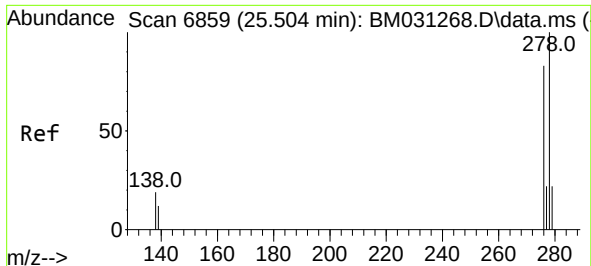
Tgt Ion:276 Resp: 23625  
Ion Ratio Lower Upper  
276 100  
138 21.1 15.8 23.8  
227 0.0 0.0 0.0



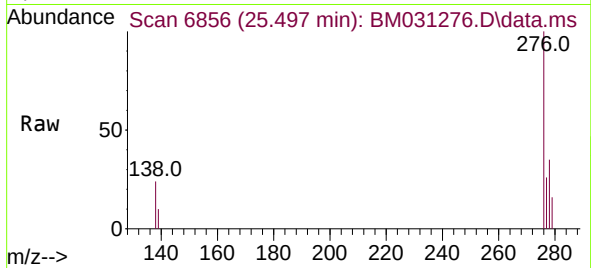
Instrument :  
BNA\_M  
ClientSampleId :  
C0025

Manual Integrations  
APPROVED

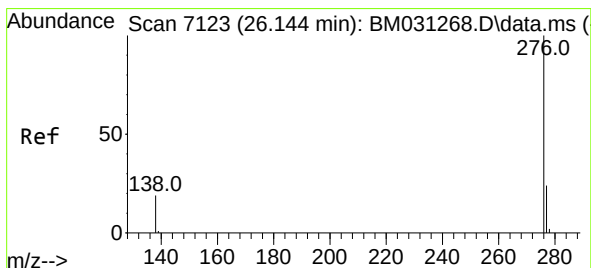
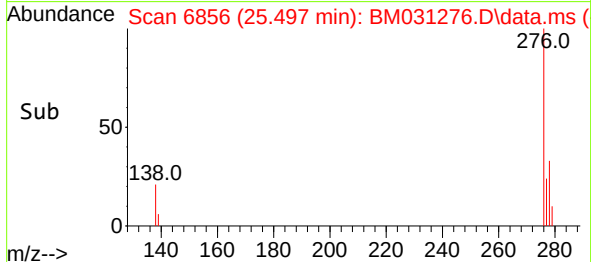
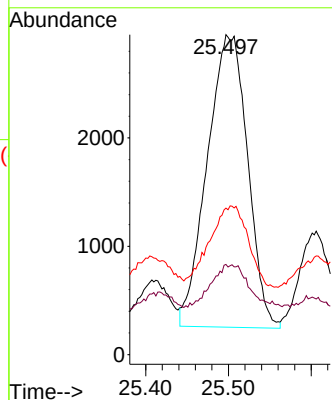
mohammad  
8/2/2021 3:40:01 PM



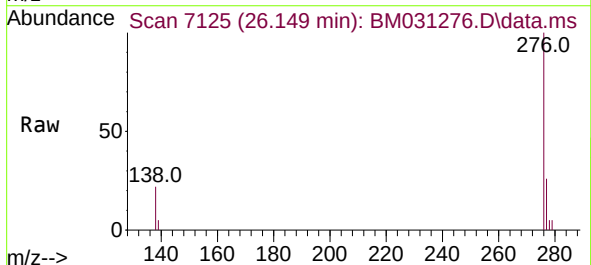
#28  
Dibenzo(a,h)anthracene  
Concen: 0.35 ng/ul  
RT: 25.497 min Scan# 6856  
Delta R.T. -0.007 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



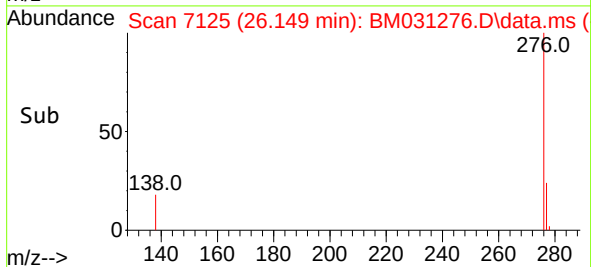
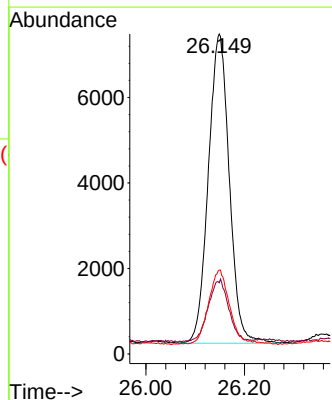
Tgt Ion: 278 Resp: 9133  
Ion Ratio Lower Upper  
278 100  
139 28.2 13.3 19.9#  
279 45.8 22.8 34.2#



#29  
Benzo(g,h,i)perylene  
Concen: 0.78 ng/ul  
RT: 26.149 min Scan# 7125  
Delta R.T. 0.005 min  
Lab File: BM031276.D  
Acq: 30 Jul 2021 13:07



Tgt Ion: 276 Resp: 21361  
Ion Ratio Lower Upper  
276 100  
138 22.3 15.4 23.2  
277 26.2 19.9 29.9



Instrument :  
BNA\_M  
ClientSampled :  
C0025

Manual Integrations  
APPROVED

mohammad  
8/2/2021 3:40:01 PM