

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
 Data File : BM040557.D  
 Acq On : 03 Jul 2023 02:15  
 Operator : MA/JU  
 Sample : 03243-22  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCGE2

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
 Supervised By :mohammad ahmed 07/03/2023

Quant Time: Jul 03 06:50:10 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jul 01 03:00:05 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.923  | 152  | 11183    | 0.400  | ng/ul  | -0.01    |
| 4) Naphthalene-d8           | 10.734 | 136  | 40050    | 0.400  | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.568 | 164  | 21911    | 0.400  | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.319 | 188  | 40668    | 0.400  | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.503 | 240  | 24111    | 0.400  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.917 | 264  | 25538    | 0.400  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.321  | 96   | 56759    | 3.231  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.323 | 152  | 12906    | 0.230  | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.347 | 212  | 20738    | 0.268  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        | Qvalue |          |
| 5) Naphthalene              | 10.783 | 128  | 39706    | 0.359  | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.395 | 142  | 19054    | 0.294  | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.615 | 142  | 13149    | 0.203  | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.290 | 152  | 103534   | 1.058  | ng/ul  | 100      |
| 11) Acenaphthene            | 14.633 | 153  | 32940    | 0.399  | ng/ul  | 99       |
| 12) Fluorene                | 15.618 | 166  | 35408    | 0.401  | ng/ul  | 100      |
| 15) Phenanthrene            | 17.362 | 178  | 773007   | 6.119  | ng/ul  | 98       |
| 16) Anthracene              | 17.450 | 178  | 183573   | 1.729  | ng/ul  | 99       |
| 19) Fluoranthene            | 19.375 | 202  | 1931325  | 18.857 | ng/ul  | 95       |
| 20) Pyrene                  | 19.742 | 202  | 1399799  | 12.748 | ng/ul  | 94       |
| 21) Benzo(a)anthracene      | 21.488 | 228  | 813780   | 9.978  | ng/ul  | 98       |
| 22) Chrysene                | 21.541 | 228  | 835153   | 8.977  | ng/ul  | 97       |
| 24) Benzo(b)fluoranthene    | 23.184 | 252  | 1335710  | 13.515 | ng/ul  | 87       |
| 25) Benzo(k)fluoranthene    | 23.224 | 252  | 439326m  | 4.510  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.812 | 252  | 715189   | 8.034  | ng/ul# | 82       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.420 | 276  | 657950   | 5.307  | ng/ul# | 84       |
| 28) Dibenzo(a,h)anthracene  | 26.430 | 278  | 167100   | 1.721  | ng/ul  | 95       |
| 29) Benzo(g,h,i)perylene    | 27.198 | 276  | 601229   | 5.533  | ng/ul# | 93       |
| -----                       |        |      |          |        |        |          |

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

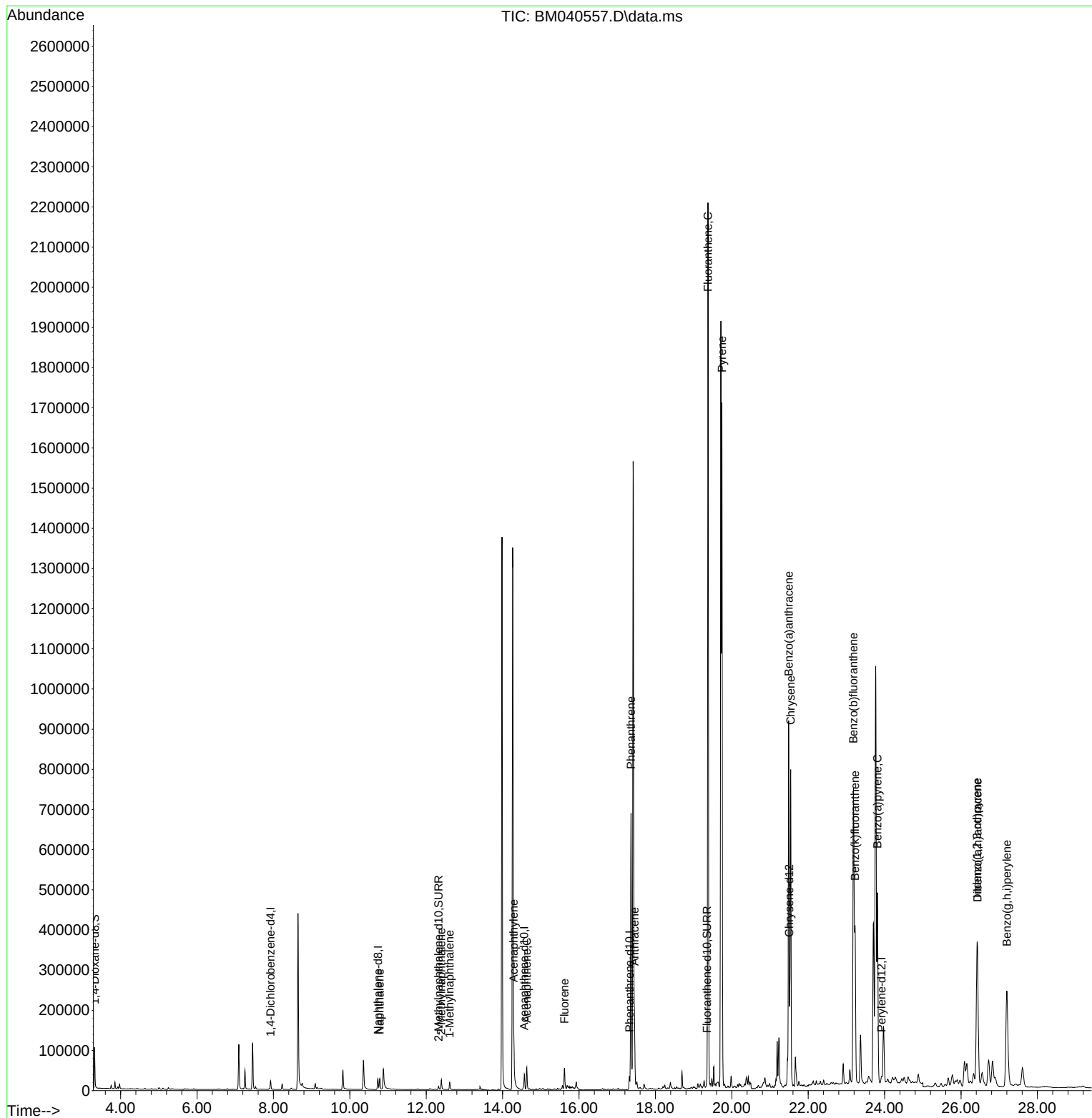
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM070123\  
Data File : BM040557.D  
Acq On : 03 Jul 2023 02:15  
Operator : MA/JU  
Sample : 03243-22  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

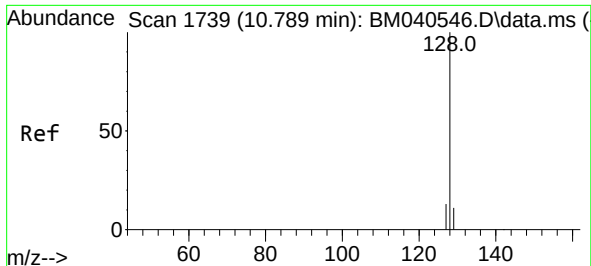
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2

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Supervised By :mohammad ahmed 07/03/2023

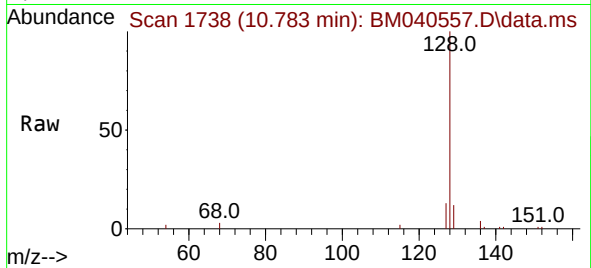
Quant Time: Jul 03 06:50:10 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM062223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jul 01 03:00:05 2023  
Response via : Initial Calibration





#5  
Naphthalene  
Concen: 0.359 ng/ul  
RT: 10.783 min Scan# 1738  
Delta R.T. -0.011 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

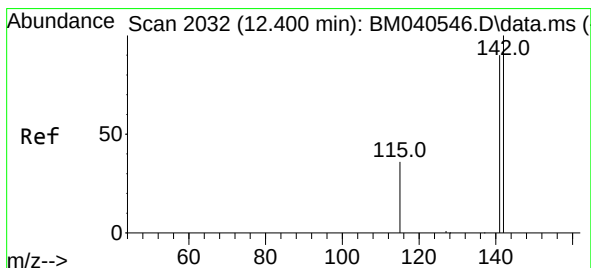
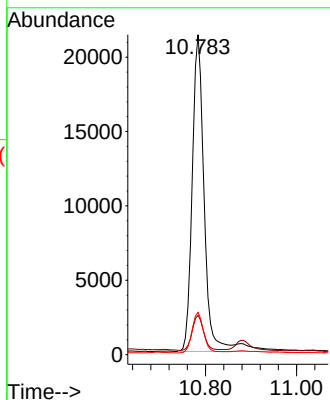
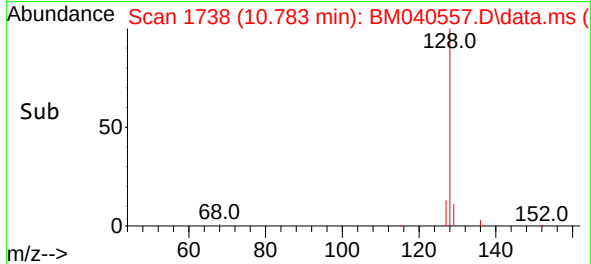
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



Tgt Ion:128 Resp: 39700  
Ion Ratio Lower Upper  
128 100  
129 12.3 9.2 13.8  
127 13.2 10.6 15.8

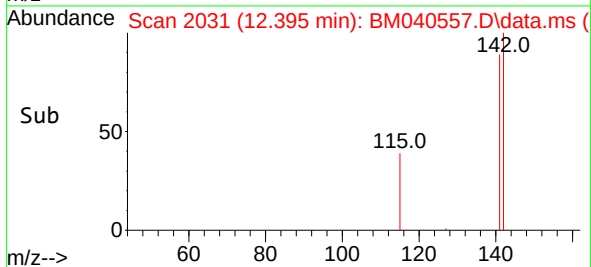
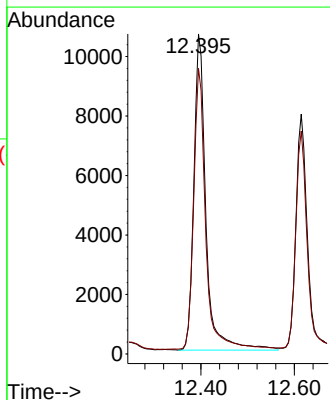
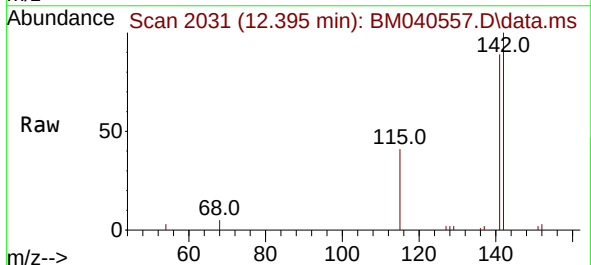
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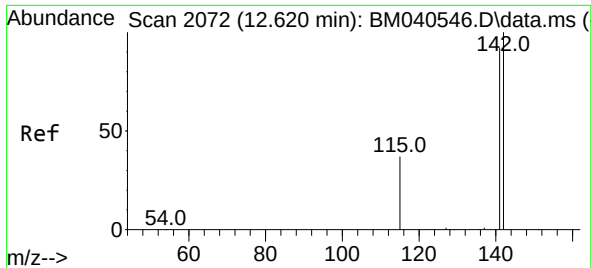
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#7  
2-Methylnaphthalene  
Concen: 0.294 ng/ul  
RT: 12.395 min Scan# 2031  
Delta R.T. -0.011 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

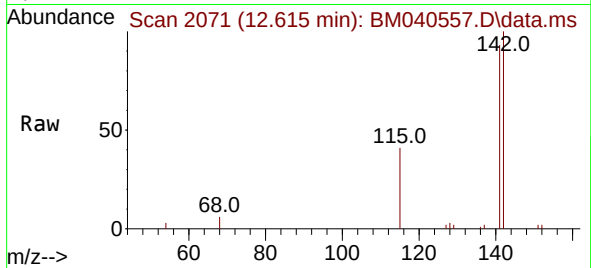
Tgt Ion:142 Resp: 19054  
Ion Ratio Lower Upper  
142 100  
141 88.3 71.9 107.9





#8  
1-Methylnaphthalene  
Concen: 0.203 ng/ul  
RT: 12.615 min Scan# 2071  
Delta R.T. -0.011 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

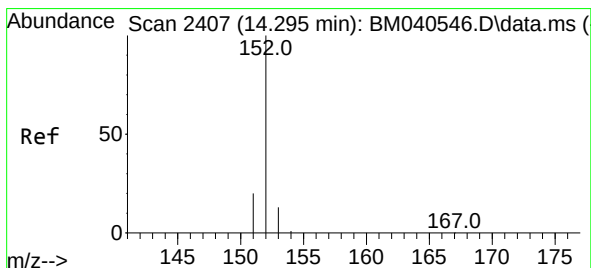
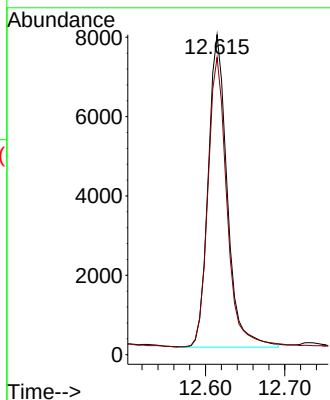
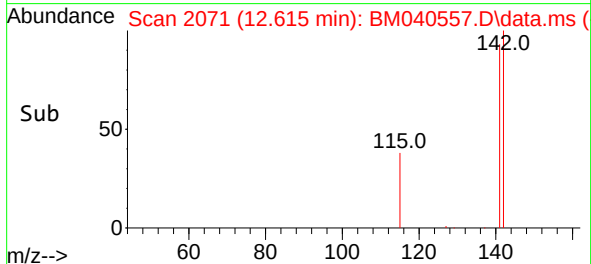
Instrument :  
BNA\_M  
ClientSampleId :  
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Tgt Ion:142 Resp: 13149  
Ion Ratio Lower Upper  
142 100  
141 92.5 73.7 110.5

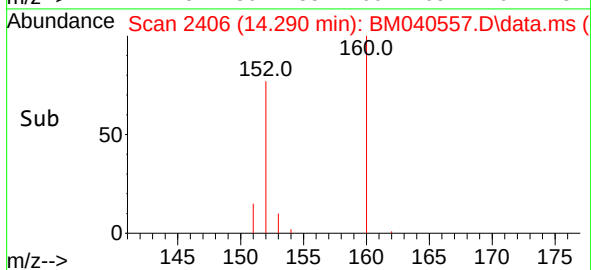
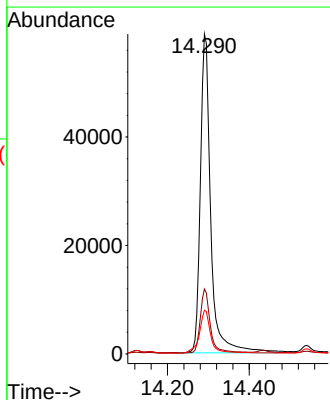
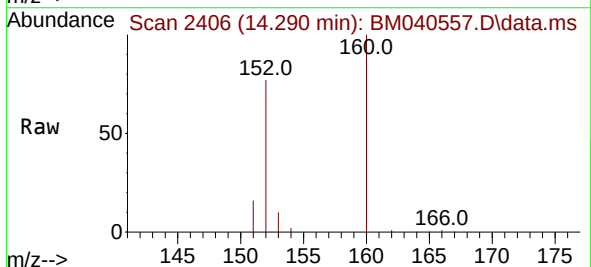
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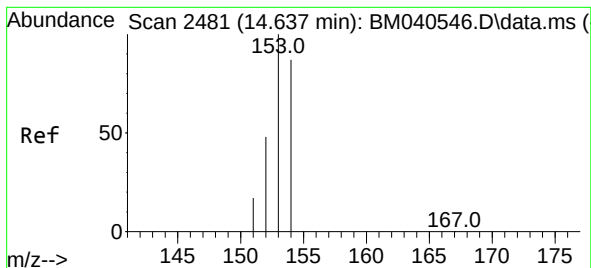
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#10  
Acenaphthylene  
Concen: 1.058 ng/ul  
RT: 14.290 min Scan# 2406  
Delta R.T. -0.009 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

Tgt Ion:152 Resp: 103534  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.2 24.2  
153 13.6 10.9 16.3





#11

Acenaphthene

Concen: 0.399 ng/ul

RT: 14.633 min Scan# 2481

Delta R.T. -0.009 min

Lab File: BM040557.D

Acq: 03 Jul 2023 02:15

Instrument :

BNA\_M

ClientSampleId :

DCGE2

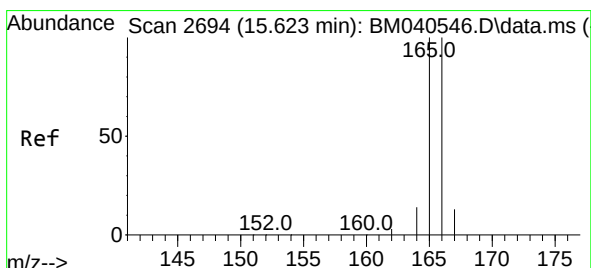
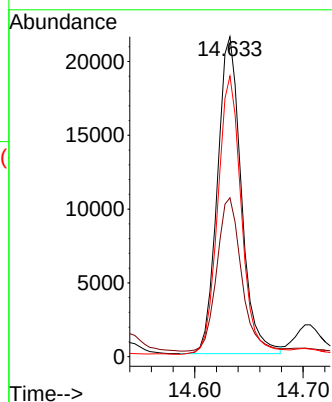
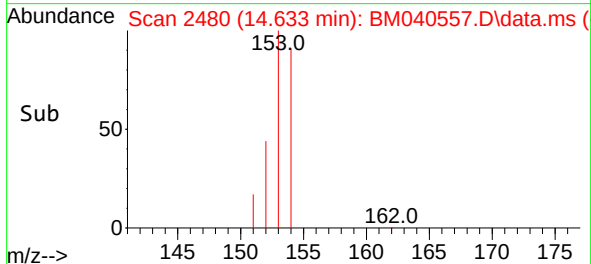
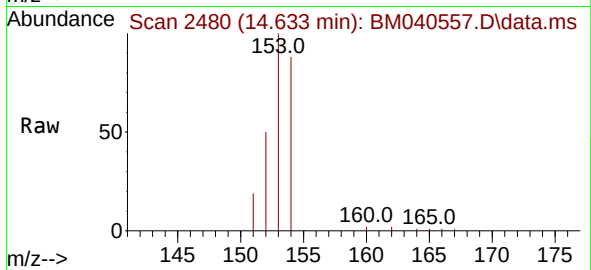
Tgt Ion:153 Resp: 32940  
 Ion Ratio Lower Upper  
 153 100  
 152 49.7 41.0 61.4  
 154 87.7 70.8 106.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/03/2023

Supervised By :mohammad ahmed 07/03/2023



#12

Fluorene

Concen: 0.401 ng/ul

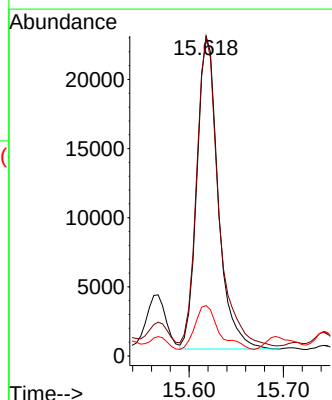
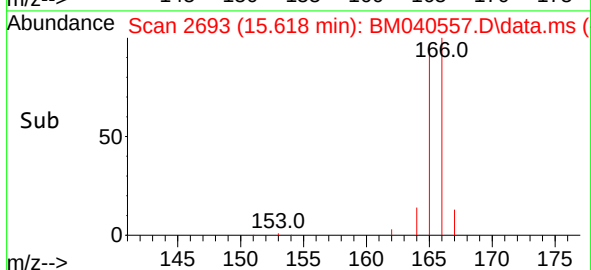
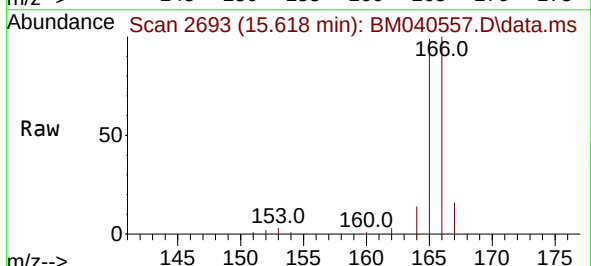
RT: 15.618 min Scan# 2693

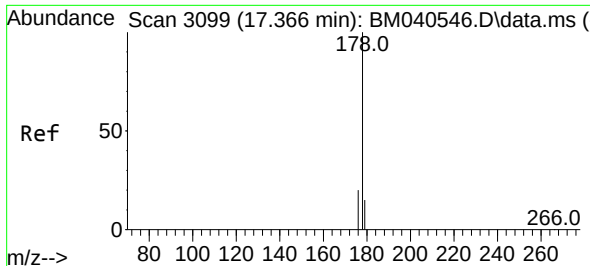
Delta R.T. -0.014 min

Lab File: BM040557.D

Acq: 03 Jul 2023 02:15

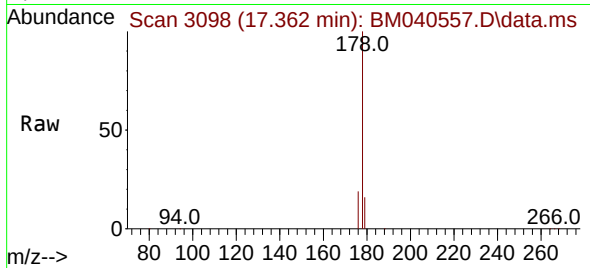
Tgt Ion:166 Resp: 35408  
 Ion Ratio Lower Upper  
 166 100  
 165 99.5 79.6 119.4  
 167 15.8 11.4 17.0





#15  
Phenanthrene  
Concen: 6.119 ng/u1  
RT: 17.362 min Scan# 3099  
Delta R.T. -0.008 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

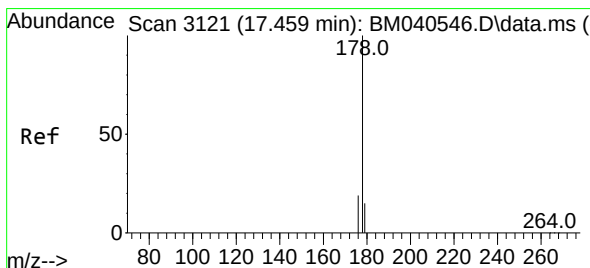
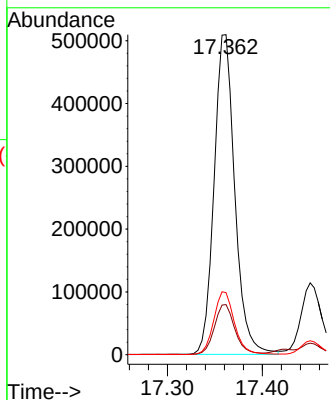
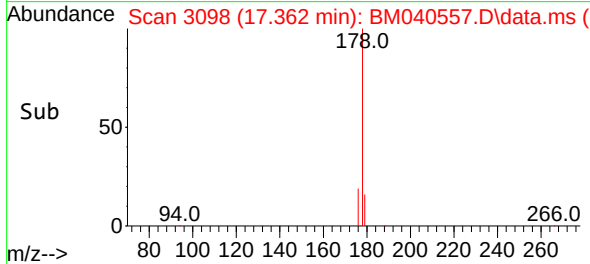
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



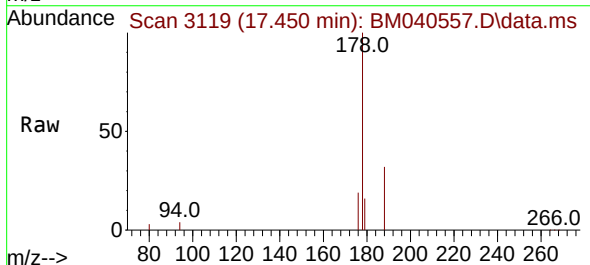
Tgt Ion:178 Resp: 77300  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.8 19.2  
176 19.4 16.4 24.6

Manual Integrations  
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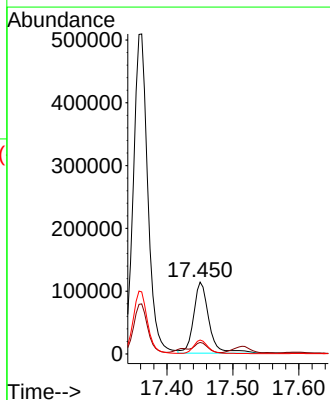
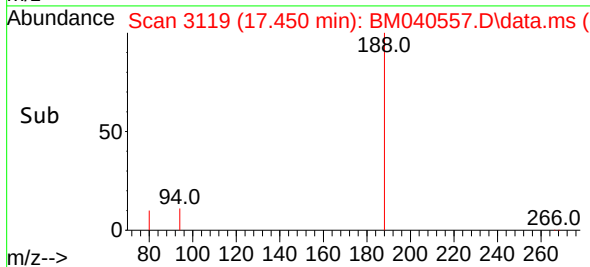
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

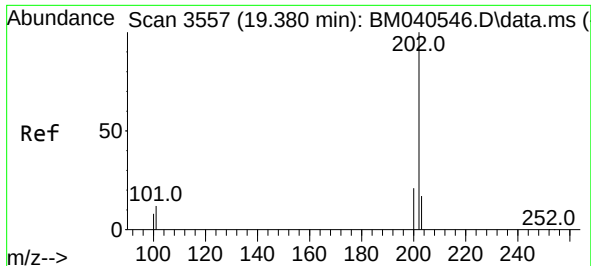


#16  
Anthracene  
Concen: 1.729 ng/u1  
RT: 17.450 min Scan# 3119  
Delta R.T. -0.013 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15



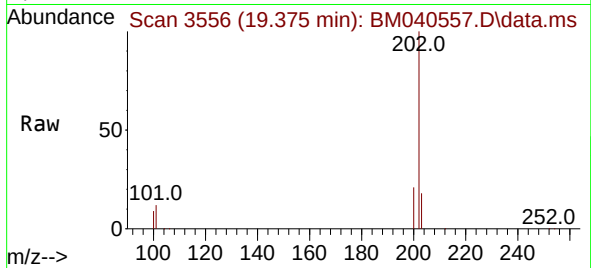
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Ion Ratio Lower Upper  
178 100  
179 16.0 12.9 19.3  
176 19.3 15.8 23.6





#19  
Fluoranthene  
Concen: 18.857 ng/ul  
RT: 19.375 min Scan# 3556  
Delta R.T. -0.009 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

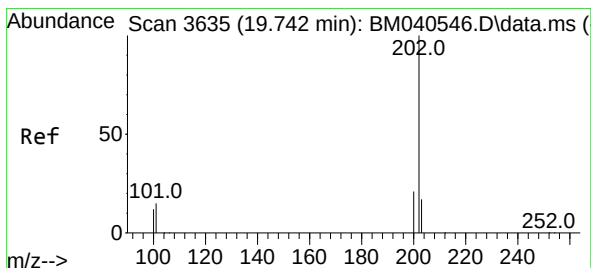
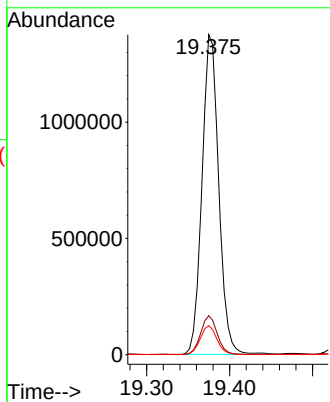
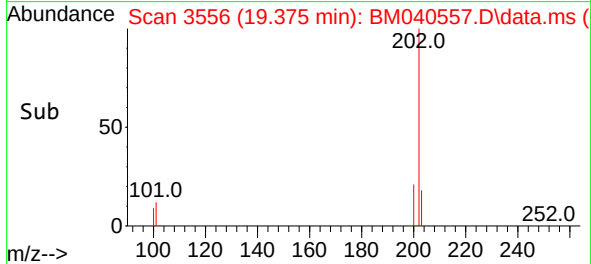
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



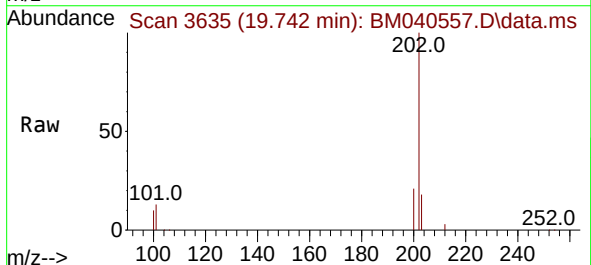
Tgt Ion:202 Resp: 1931329  
Ion Ratio Lower Upper  
202 100  
101 12.2 11.4 17.0  
100 9.1 8.7 13.1

Manual Integrations  
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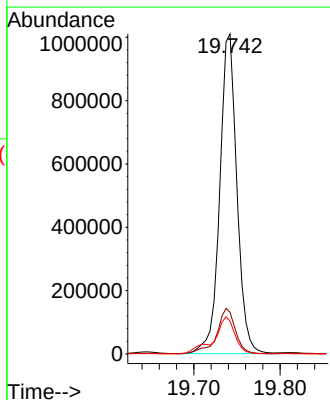
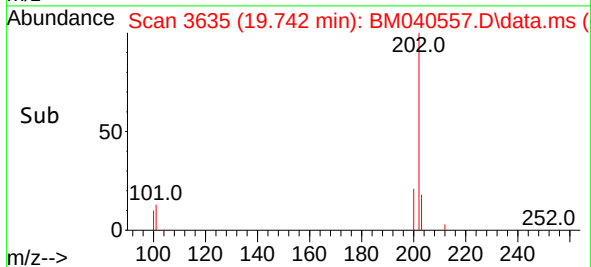
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023

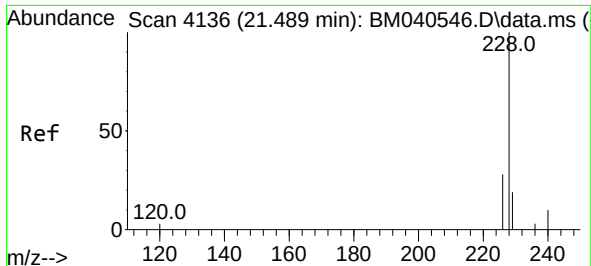


#20  
Pyrene  
Concen: 12.748 ng/ul  
RT: 19.742 min Scan# 3635  
Delta R.T. -0.005 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15



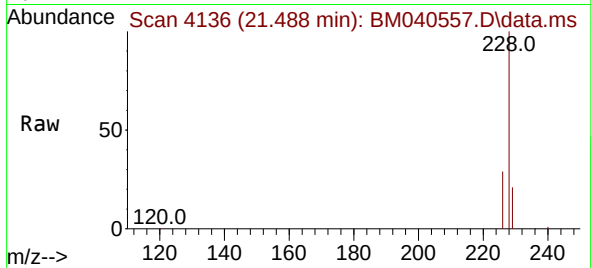
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Ion Ratio Lower Upper  
202 100  
101 13.0 12.6 18.8  
100 10.3 9.8 14.6





#21  
Benzo(a)anthracene  
Concen: 9.978 ng/ul  
RT: 21.488 min Scan# 4136  
Delta R.T. -0.003 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

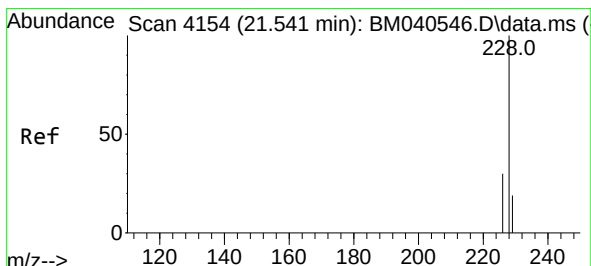
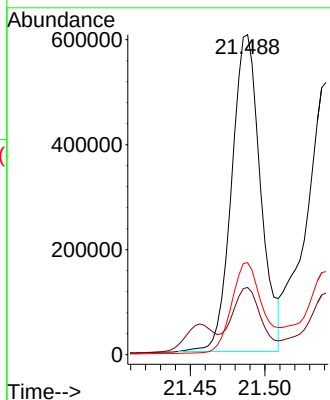
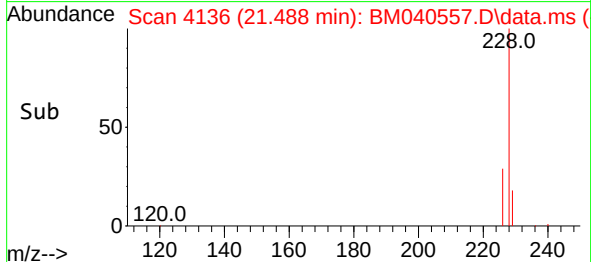
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



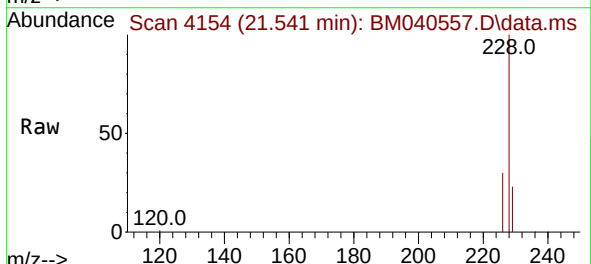
Tgt Ion:228 Resp: 813780  
Ion Ratio Lower Upper  
228 100  
229 21.0 16.0 24.0  
226 28.7 22.3 33.5

Manual Integrations  
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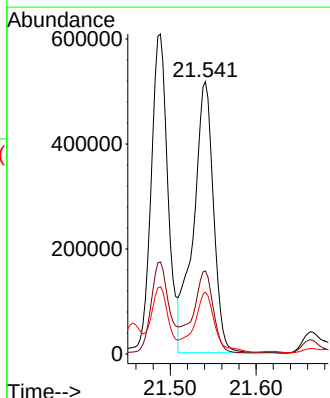
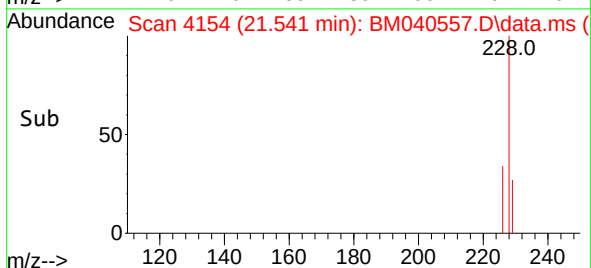
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



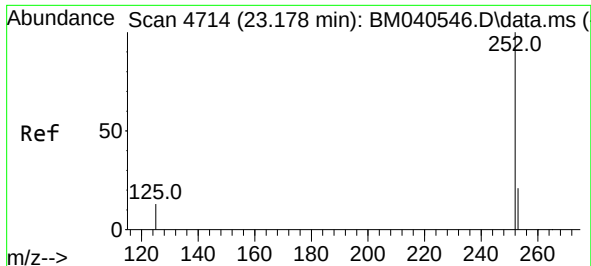
#22  
Chrysene  
Concen: 8.977 ng/ul  
RT: 21.541 min Scan# 4154  
Delta R.T. -0.003 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15



Tgt Ion:228 Resp: 835153  
Ion Ratio Lower Upper  
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226 30.5 24.9 37.3  
229 22.7 15.8 23.6

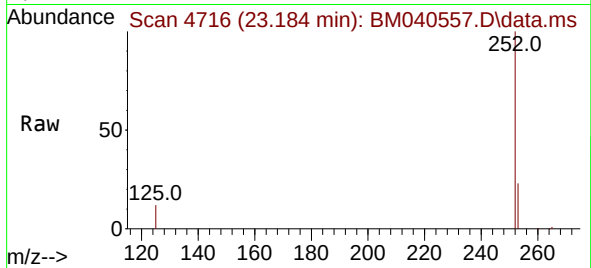






#24  
Benzo(b)fluoranthene  
Concen: 13.515 ng/ul  
RT: 23.184 min Scan# 4716  
Delta R.T. 0.003 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

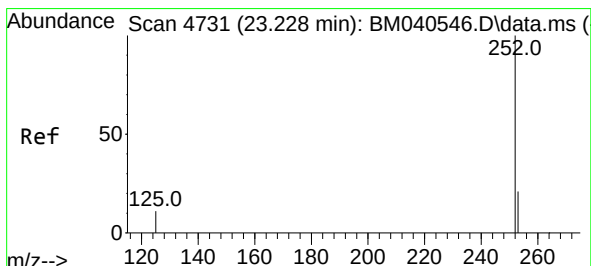
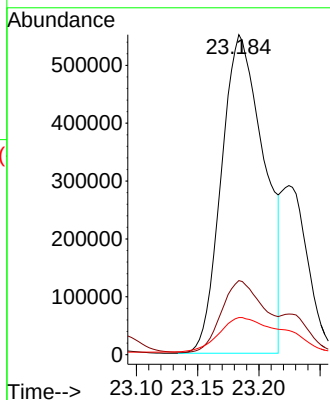
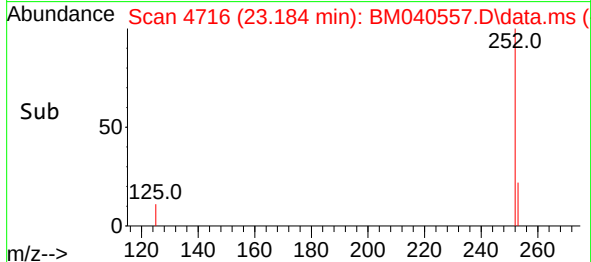
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



Tgt Ion:252 Resp: 1335710  
Ion Ratio Lower Upper  
252 100  
253 23.1 0.0 52.8  
125 11.6 0.0 43.0

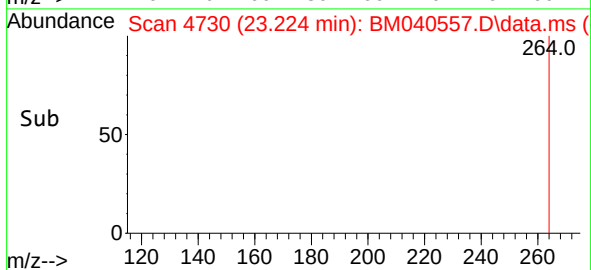
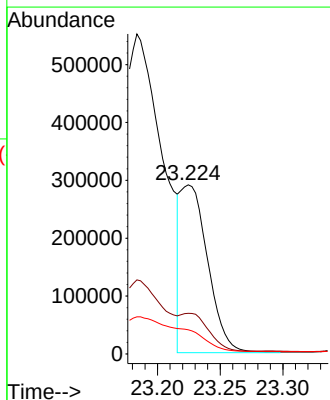
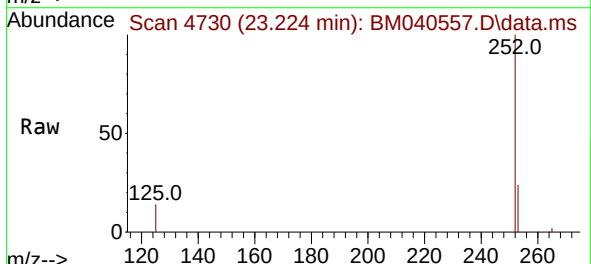
Manual Integrations  
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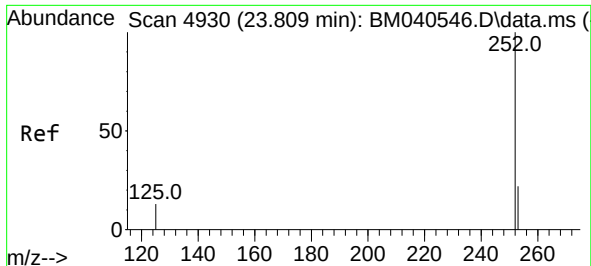
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#25  
Benzo(k)fluoranthene  
Concen: 4.510 ng/ul m  
RT: 23.224 min Scan# 4730  
Delta R.T. -0.003 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

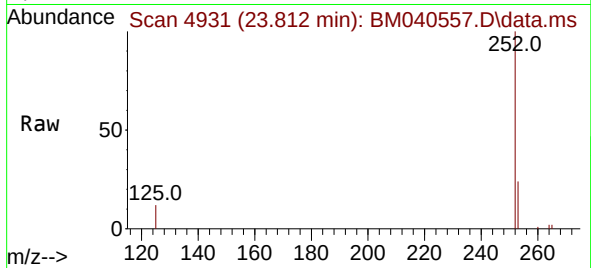
Tgt Ion:252 Resp: 439326  
Ion Ratio Lower Upper  
252 100  
253 24.1 21.2 31.8  
125 14.3 16.4 24.6#





#26  
Benzo(a)pyrene  
Concen: 8.034 ng/ul  
RT: 23.812 min Scan# 4931  
Delta R.T. 0.000 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

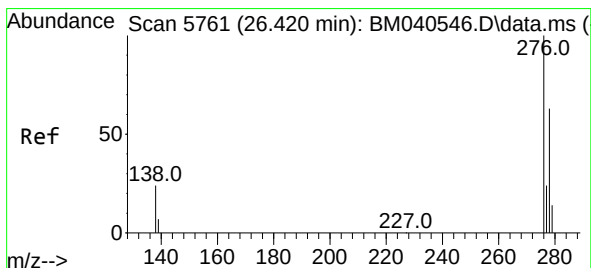
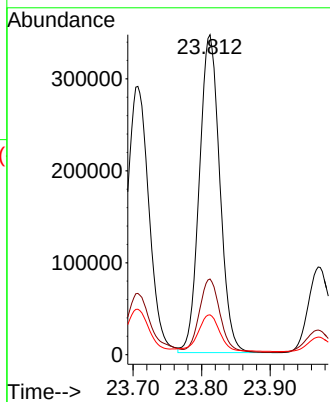
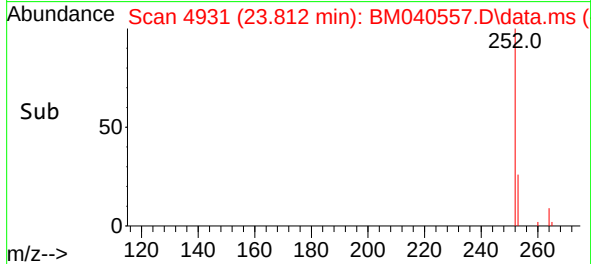
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



Tgt Ion:252 Resp: 715189  
Ion Ratio Lower Upper  
252 100  
253 23.7 22.9 34.3  
125 12.5 21.0 31.4

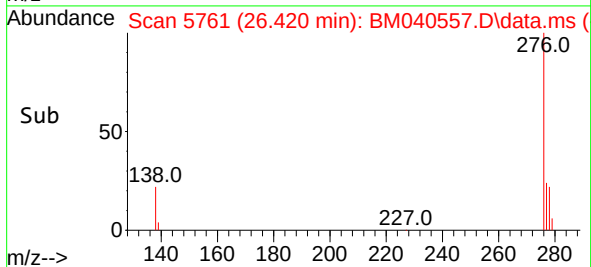
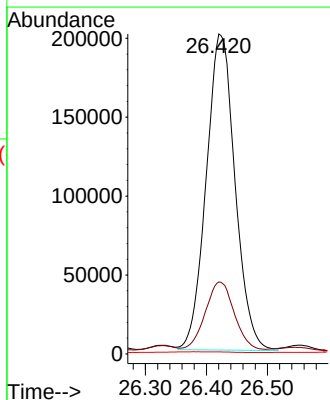
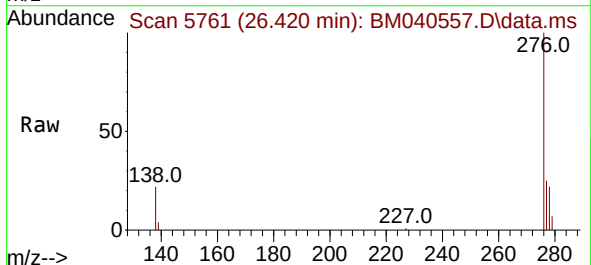
Manual Integrations  
APPROVED

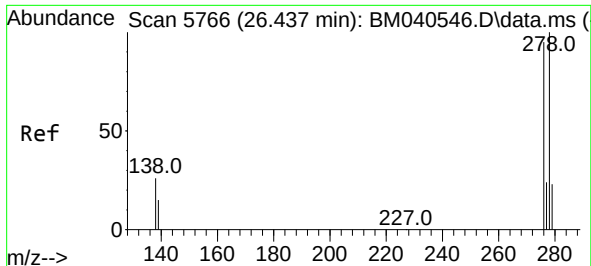
Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 5.307 ng/ul  
RT: 26.420 min Scan# 5761  
Delta R.T. 0.000 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

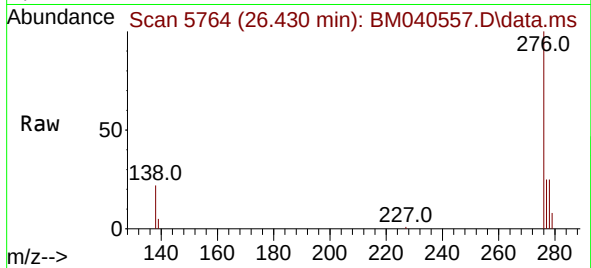
Tgt Ion:276 Resp: 657950  
Ion Ratio Lower Upper  
276 100  
138 21.9 24.5 36.7#  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 1.721 ng/ul  
RT: 26.430 min Scan# 5766  
Delta R.T. -0.007 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

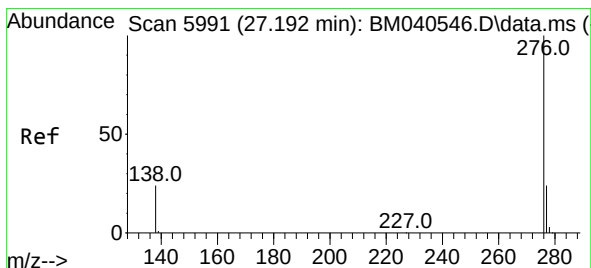
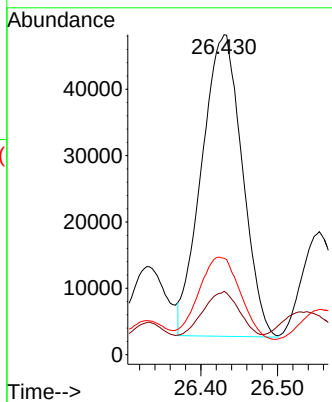
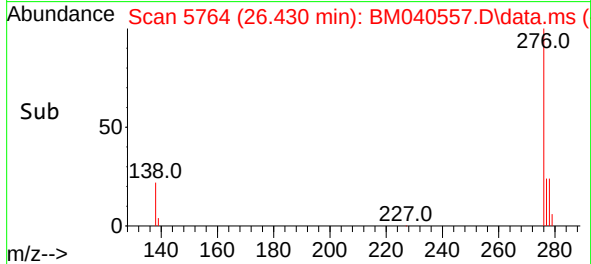
Instrument :  
BNA\_M  
ClientSampleId :  
DCGE2



Tgt Ion:278 Resp: 167100  
Ion Ratio Lower Upper  
278 100  
139 19.8 17.9 26.9  
279 30.1 22.0 33.0

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 07/03/2023  
Supervised By :mohammad ahmed 07/03/2023



#29  
Benzo(g,h,i)perylene  
Concen: 5.533 ng/ul  
RT: 27.198 min Scan# 5993  
Delta R.T. 0.013 min  
Lab File: BM040557.D  
Acq: 03 Jul 2023 02:15

Tgt Ion:276 Resp: 601229  
Ion Ratio Lower Upper  
276 100  
138 22.9 23.0 34.6#  
277 24.4 20.3 30.5

