

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100423\  
 Data File : BM042197.D  
 Acq On : 04 Oct 2023 21:51  
 Operator : MA/JU  
 Sample : 04588-11  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BBHP1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/05/2023  
 Supervised By :mohammad ahmed 10/06/2023

Quant Time: Oct 05 01:55:27 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM100223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 02 19:28:41 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.954  | 152  | 4395     | 0.400  | ng/ul  | # 0.02   |
| 4) Naphthalene-d8           | 10.746 | 136  | 7779     | 0.400  | ng/ul  | # 0.00   |
| 9) Acenaphthene-d10         | 14.578 | 164  | 4838     | 0.400  | ng/ul  | # 0.00   |
| 13) Phenanthrene-d10        | 17.333 | 188  | 8925     | 0.400  | ng/ul  | # 0.00   |
| 17) Chrysene-d12            | 21.501 | 240  | 6101     | 0.400  | ng/ul  | #-0.01   |
| 23) Perylene-d12            | 23.904 | 264  | 6581     | 0.400  | ng/ul  | -0.02    |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8           | 3.360  | 96   | 20166    | 3.446  | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.330 | 152  | 5317     | 0.498  | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.352 | 212  | 8064     | 0.352  | ng/ul  | 0.00     |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        |        |          |
|                             |        |      |          |        |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.393  | 88   | 1665     | 0.272  | ng/ul# | 38       |
| 5) Naphthalene              | 10.796 | 128  | 529995   | 20.422 | ng/ul  | 97       |
| 7) 2-Methylnaphthalene      | 12.401 | 142  | 352433   | 22.681 | ng/ul  | 97       |
| 8) 1-Methylnaphthalene      | 12.627 | 142  | 776598   | 49.616 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.291 | 152  | 14714    | 0.481  | ng/ul# | 1        |
| 11) Acenaphthene            | 14.643 | 153  | 40580    | 1.754  | ng/ul# | 80       |
| 12) Fluorene                | 15.628 | 166  | 78546    | 3.014  | ng/ul# | 93       |
| 15) Phenanthrene            | 17.375 | 178  | 135012   | 3.669  | ng/ul  | 97       |
| 16) Anthracene              | 17.468 | 178  | 8163     | 0.243  | ng/ul# | 68       |
| 19) Fluoranthene            | 19.380 | 202  | 9089     | 0.196  | ng/ul# | 86       |
| 20) Pyrene                  | 19.752 | 202  | 16865m   | 0.342  | ng/ul  |          |
| 21) Benzo(a)anthracene      | 21.486 | 228  | 6104     | 0.155  | ng/ul# | 84       |
| 22) Chrysene                | 21.542 | 228  | 7909m    | 0.206  | ng/ul  |          |
| 24) Benzo(b)fluoranthene    | 23.164 | 252  | 4695     | 0.121  | ng/ul# | 51       |
| 25) Benzo(k)fluoranthene    | 23.208 | 252  | 1807m    | 0.047  | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.795 | 252  | 3529     | 0.105  | ng/ul# | 56       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.384 | 276  | 2637     | 0.056  | ng/ul# | 99       |
| 28) Dibenzo(a,h)anthracene  | 26.388 | 278  | 1804     | 0.050  | ng/ul# | 17       |
| 29) Benzo(g,h,i)perylene    | 27.162 | 276  | 4308     | 0.109  | ng/ul# | 86       |
| -----                       |        |      |          |        |        |          |

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

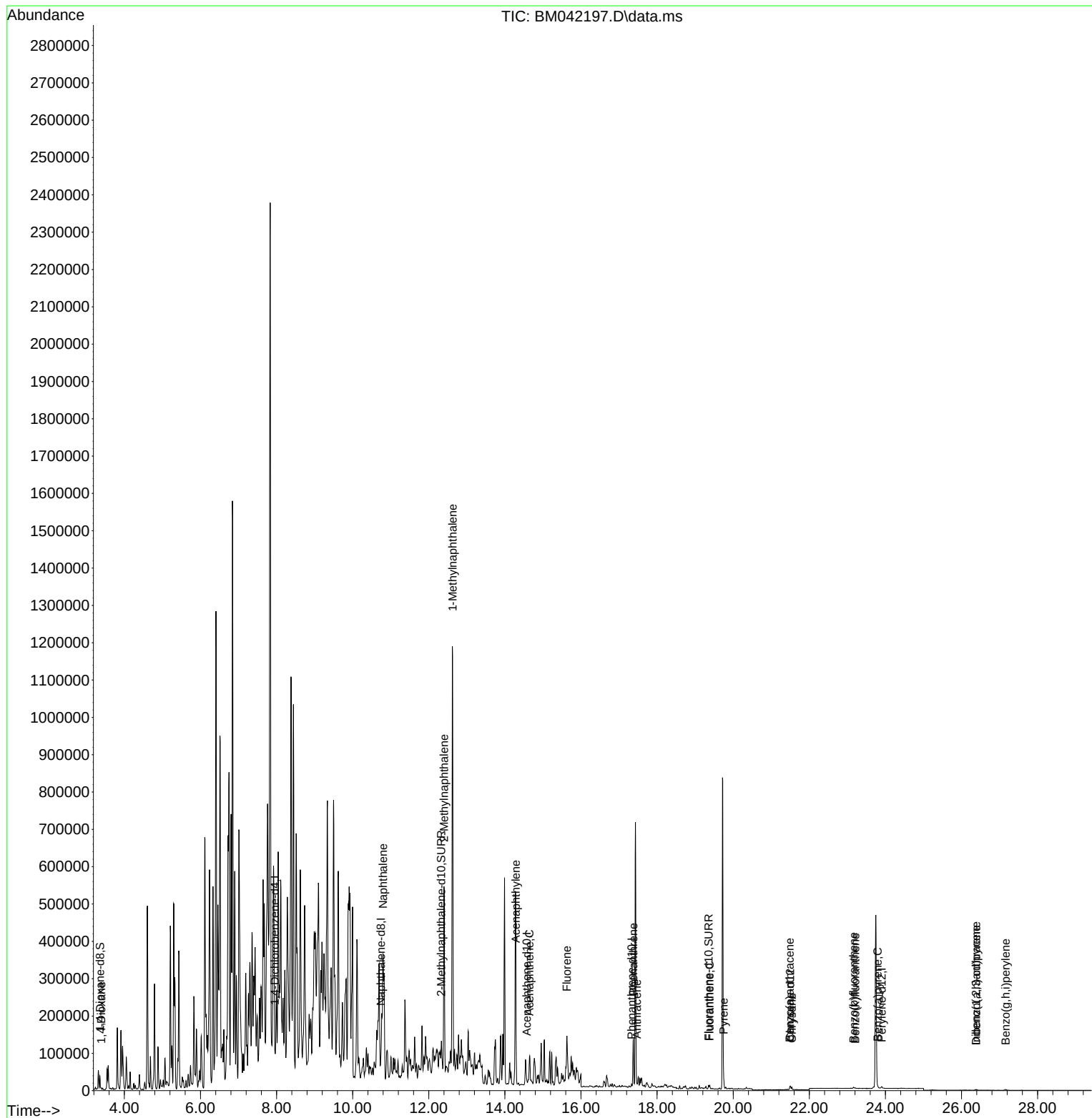
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM100423\  
Data File : BM042197.D  
Acq On : 04 Oct 2023 21:51  
Operator : MA/JU  
Sample : 04588-11  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

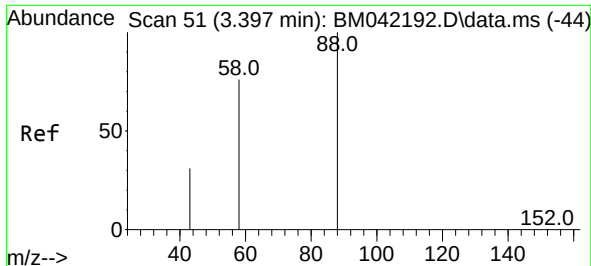
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023

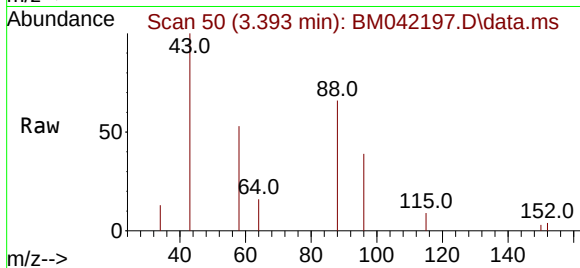
Quant Time: Oct 05 01:55:27 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM100223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 02 19:28:41 2023  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 0.272 ng/ul  
RT: 3.393 min Scan# 50  
Delta R.T. -0.008 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

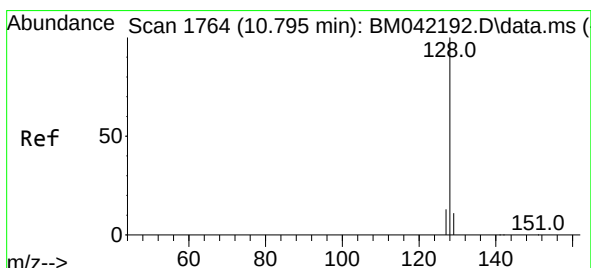
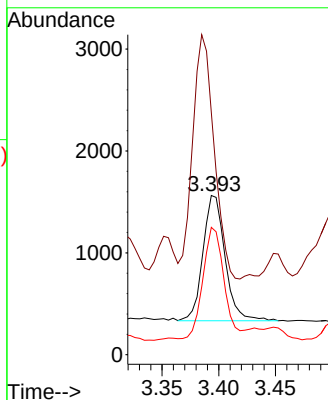
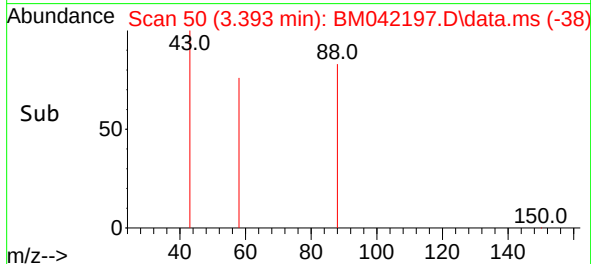
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



Tgt Ion: 88 Resp: 166  
Ion Ratio Lower Upper  
88 100  
43 152.0 52.1 78.1  
58 79.9 53.8 80.6

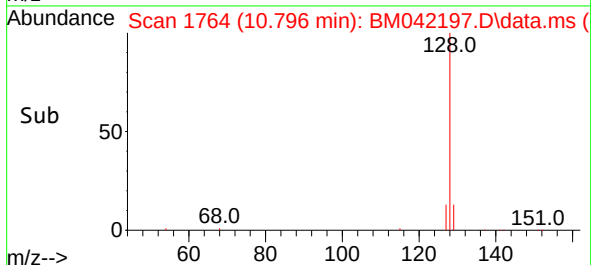
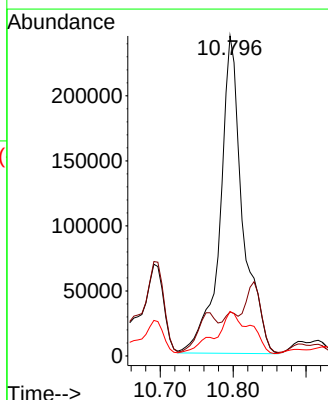
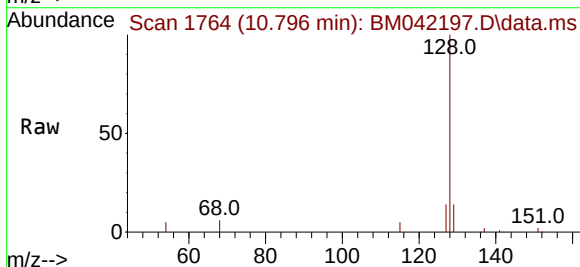
Manual Integrations  
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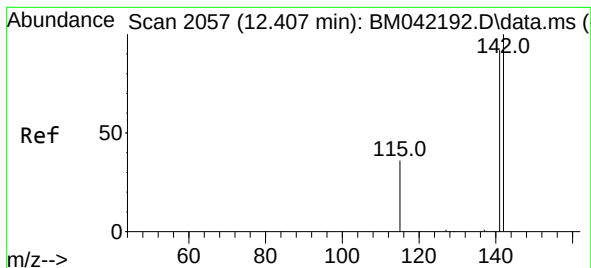
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023



#5  
Naphthalene  
Concen: 20.422 ng/ul  
RT: 10.796 min Scan# 1764  
Delta R.T. -0.005 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

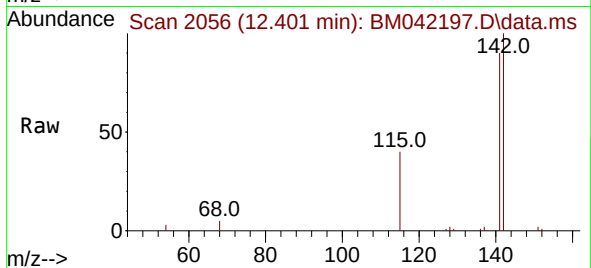
Tgt Ion:128 Resp: 529995  
Ion Ratio Lower Upper  
128 100  
129 13.8 9.4 14.2  
127 13.9 11.0 16.4





#7  
2-Methylnaphthalene  
Concen: 22.681 ng/ul  
RT: 12.401 min Scan# 2056  
Delta R.T. -0.005 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

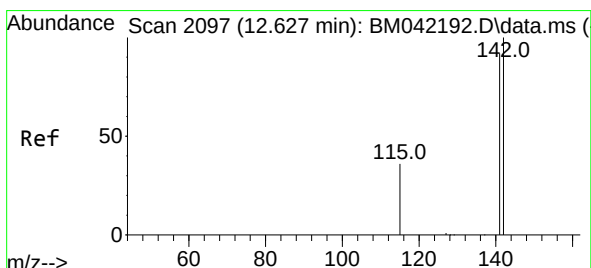
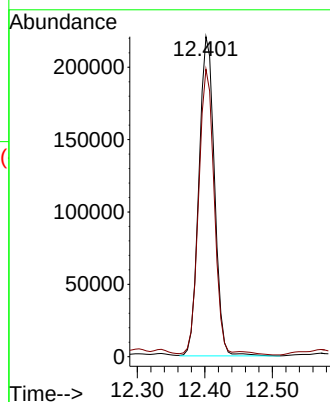
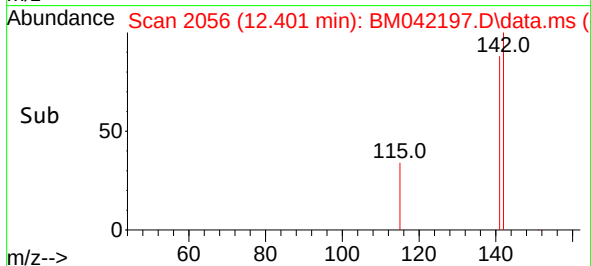
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



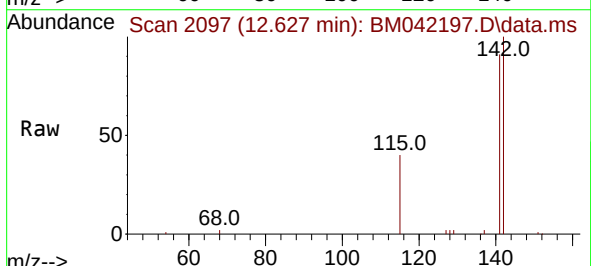
Tgt Ion:142 Resp: 35243  
Ion Ratio Lower Upper  
142 100  
141 90.4 70.2 105.4

Manual Integrations  
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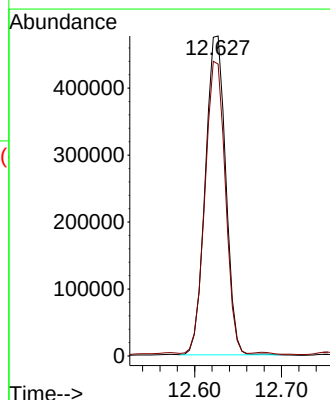
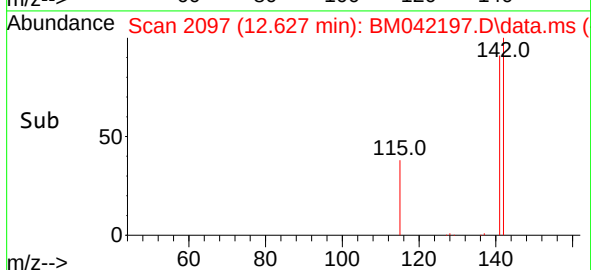
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023

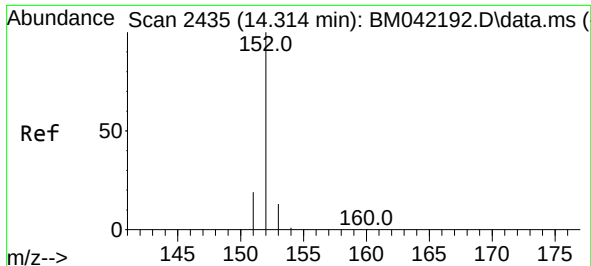


#8  
1-Methylnaphthalene  
Concen: 49.616 ng/ul  
RT: 12.627 min Scan# 2097  
Delta R.T. 0.000 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51



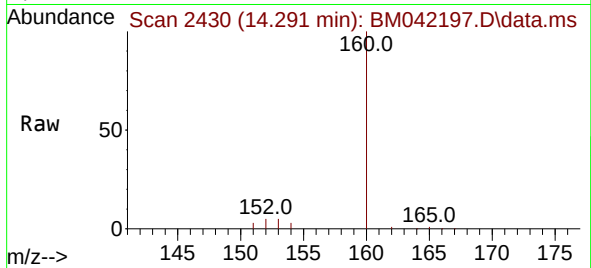
Tgt Ion:142 Resp: 776598  
Ion Ratio Lower Upper  
142 100  
141 91.1 73.5 110.3





#10  
Acenaphthylene  
Concen: 0.481 ng/ul  
RT: 14.291 min Scan# 2430  
Delta R.T. -0.023 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

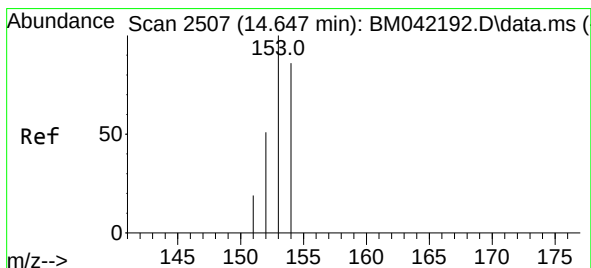
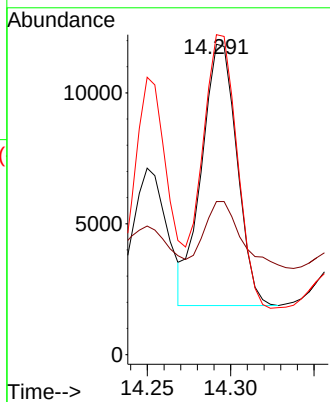
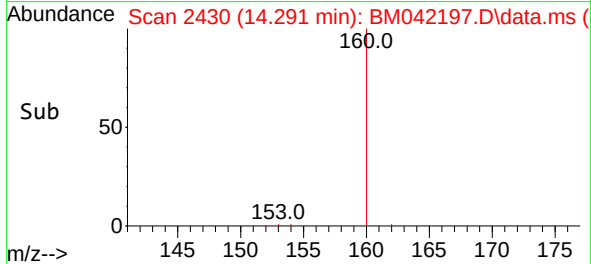
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



Tgt Ion:152 Resp: 14714  
Ion Ratio Lower Upper  
152 100  
151 49.3 16.4 24.6  
153 103.1 10.9 16.3

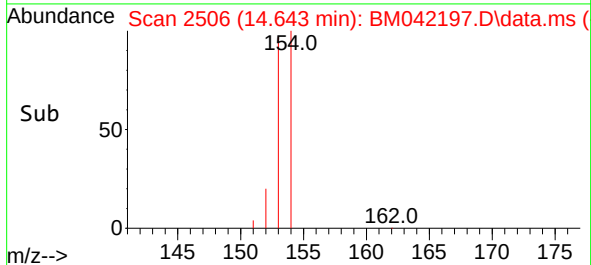
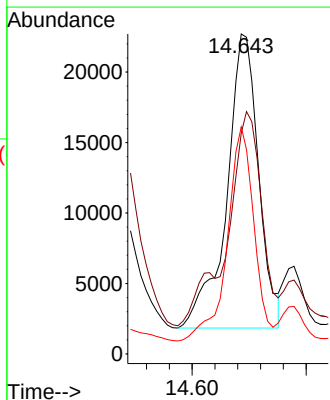
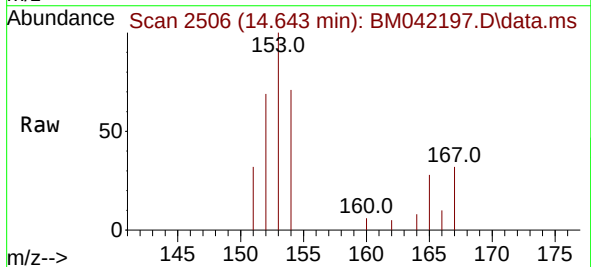
Manual Integrations  
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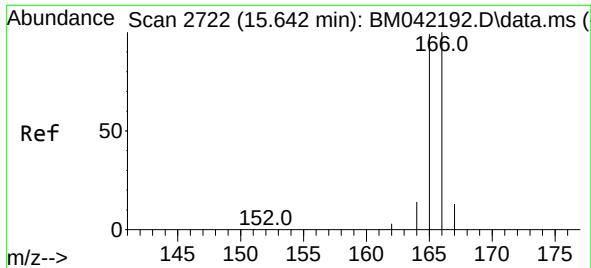
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023



#11  
Acenaphthene  
Concen: 1.754 ng/ul  
RT: 14.643 min Scan# 2506  
Delta R.T. -0.005 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

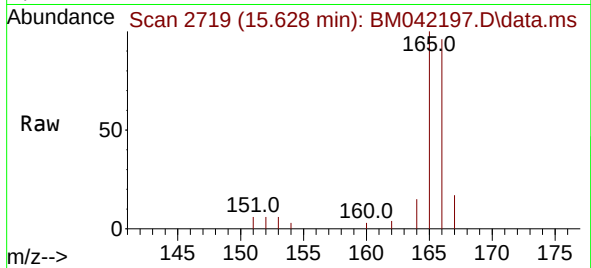
Tgt Ion:153 Resp: 40580  
Ion Ratio Lower Upper  
153 100  
152 69.0 41.1 61.7#  
154 70.9 69.5 104.3





#12  
Fluorene  
Concen: 3.014 ng/ul  
RT: 15.628 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

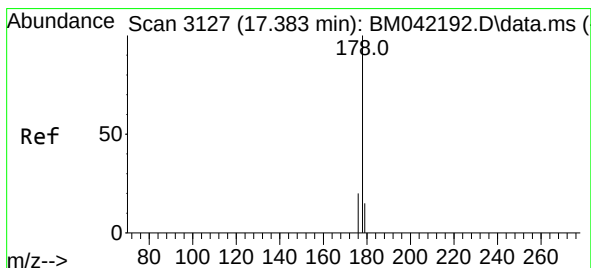
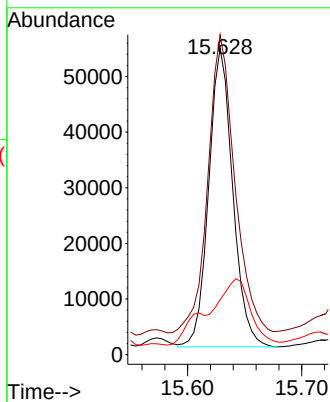
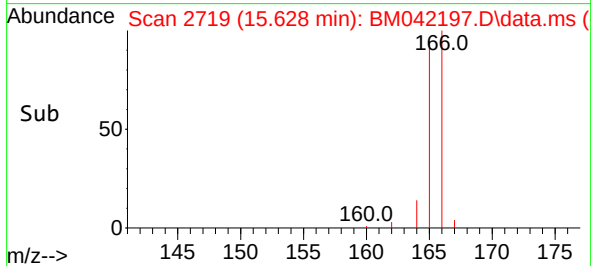
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



Tgt Ion:166 Resp: 78540  
Ion Ratio Lower Upper  
166 100  
165 104.5 78.4 117.6  
167 17.9 11.5 17.3

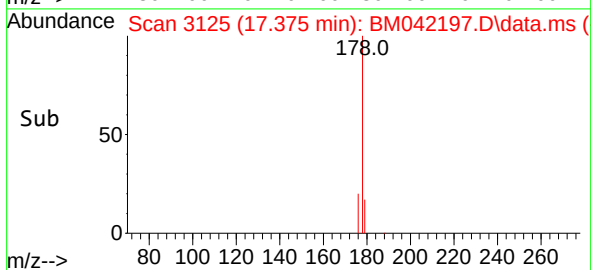
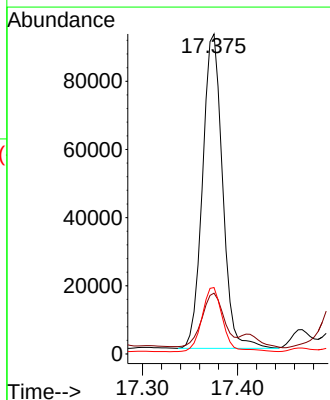
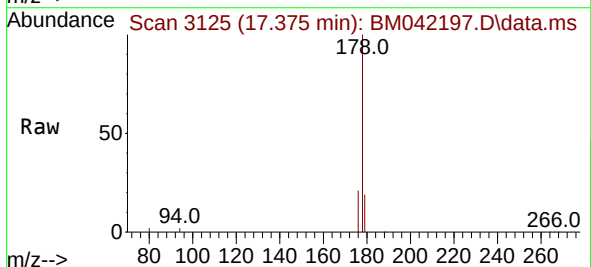
Manual Integrations  
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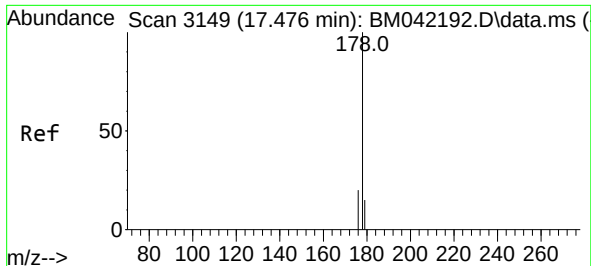
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023



#15  
Phenanthrene  
Concen: 3.669 ng/ul  
RT: 17.375 min Scan# 3125  
Delta R.T. -0.008 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

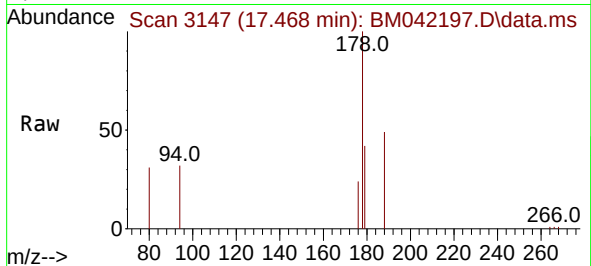
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Ion Ratio Lower Upper  
178 100  
179 19.0 13.0 19.4  
176 20.7 16.8 25.2





#16  
 Anthracene  
 Concen: 0.243 ng/ul  
 RT: 17.468 min Scan# 3149  
 Delta R.T. -0.008 min  
 Lab File: BM042197.D  
 Acq: 04 Oct 2023 21:51

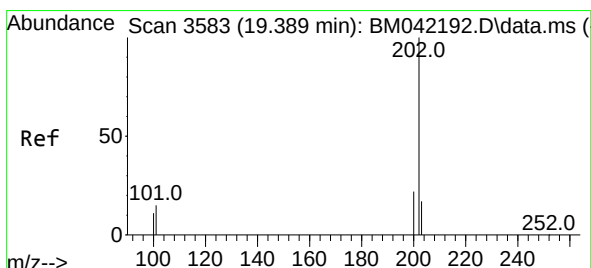
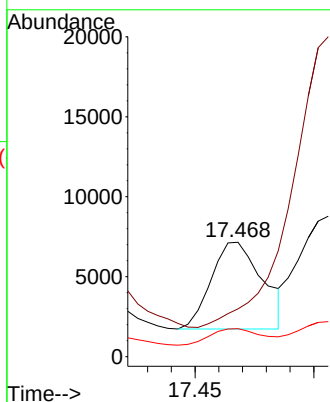
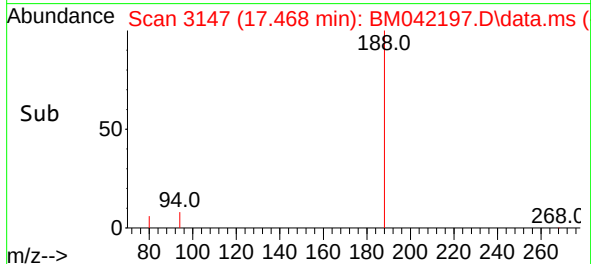
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BBHP1



Tgt Ion:178 Resp: 816  
 Ion Ratio Lower Upper  
 178 100  
 179 41.9 12.9 19.3#  
 176 24.5 16.3 24.5

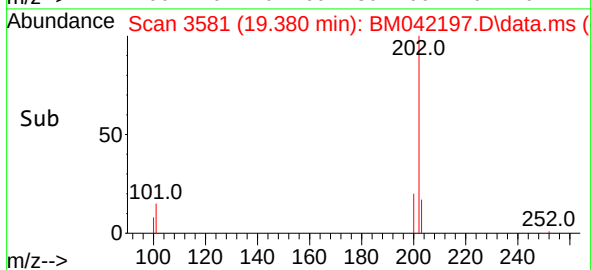
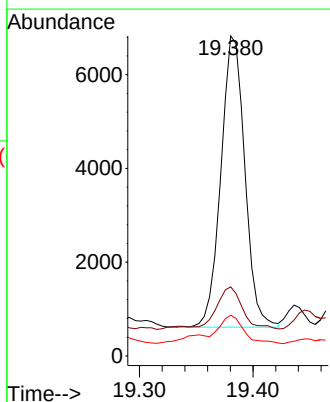
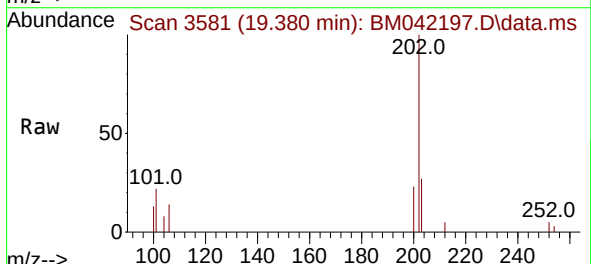
Manual Integrations  
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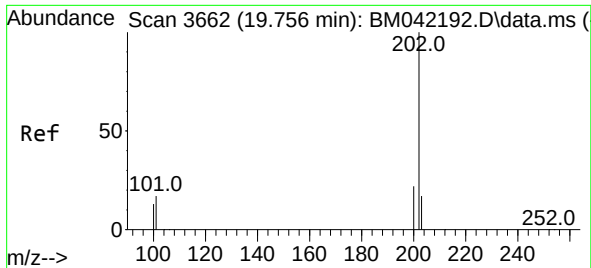
Reviewed By :Yogesh Patel 10/05/2023  
 Supervised By :mohammad ahmed 10/06/2023



#19  
 Fluoranthene  
 Concen: 0.196 ng/ul  
 RT: 19.380 min Scan# 3581  
 Delta R.T. -0.014 min  
 Lab File: BM042197.D  
 Acq: 04 Oct 2023 21:51

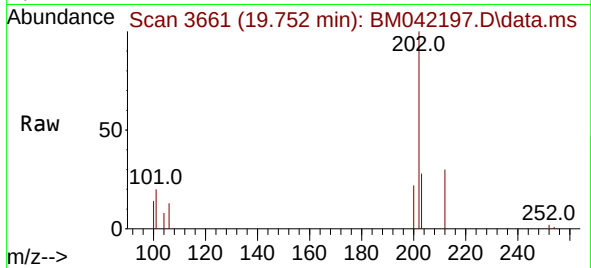
Tgt Ion:202 Resp: 9089  
 Ion Ratio Lower Upper  
 202 100  
 101 21.6 11.1 16.7#  
 100 12.7 8.2 12.2#





#20  
Pyrene  
Concen: 0.342 ng/ul m  
RT: 19.752 min Scan# 3661  
Delta R.T. -0.009 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

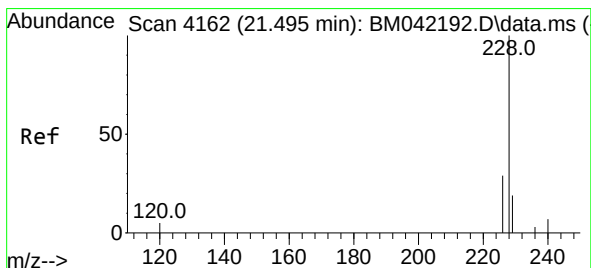
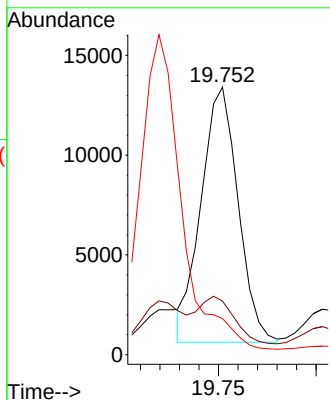
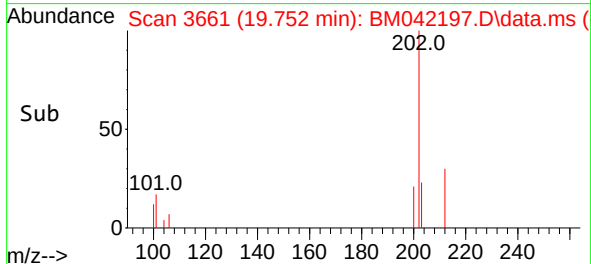
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



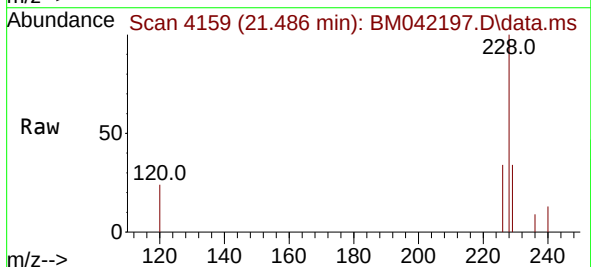
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100 13.5 9.9 14.9

Manual Integrations  
APPROVED

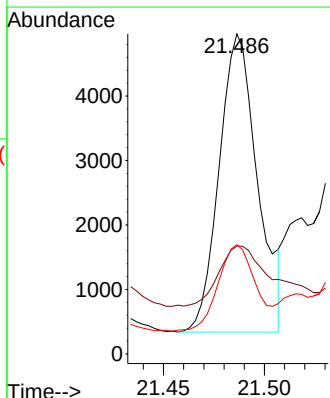
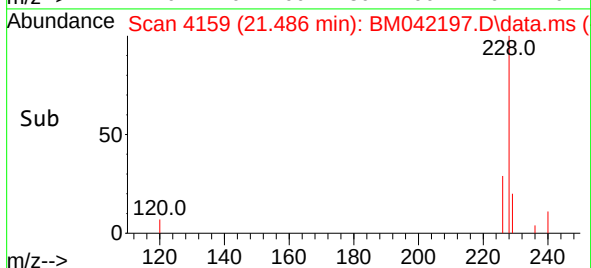
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023



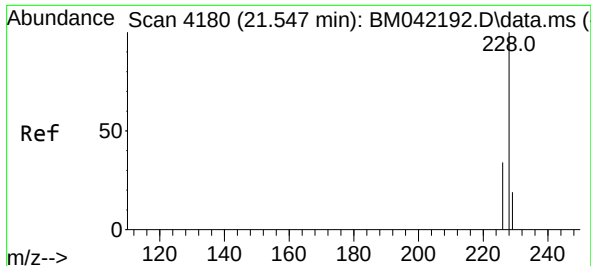
#21  
Benzo(a)anthracene  
Concen: 0.155 ng/ul  
RT: 21.486 min Scan# 4159  
Delta R.T. -0.012 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51



Tgt Ion:228 Resp: 6104  
Ion Ratio Lower Upper  
228 100  
229 33.8 15.8 23.8#  
226 34.2 24.6 37.0

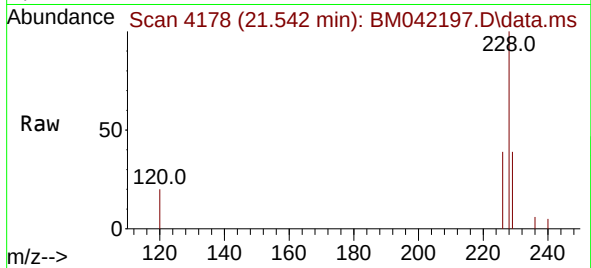






#22  
Chrysene  
Concen: 0.206 ng/ul m  
RT: 21.542 min Scan# 4180  
Delta R.T. -0.012 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

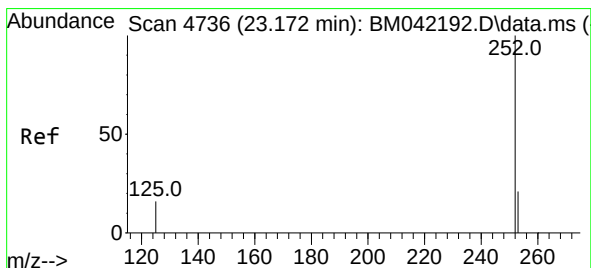
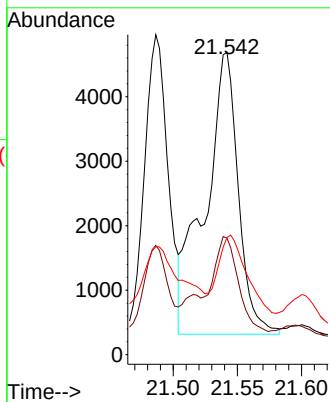
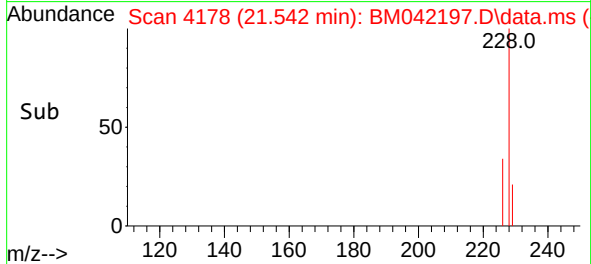
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



Tgt Ion:228 Resp: 7905  
Ion Ratio Lower Upper  
228 100  
226 38.6 26.7 40.1  
229 38.8 15.8 23.8

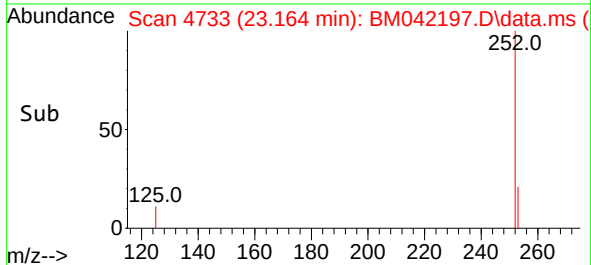
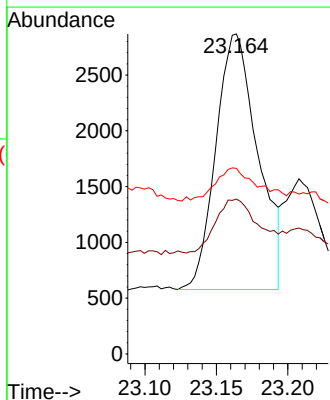
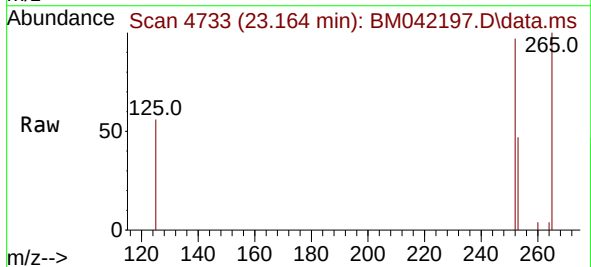
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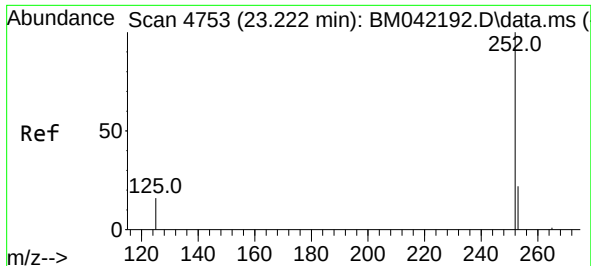
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023



#24  
Benzo(b)fluoranthene  
Concen: 0.121 ng/ul  
RT: 23.164 min Scan# 4733  
Delta R.T. -0.015 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

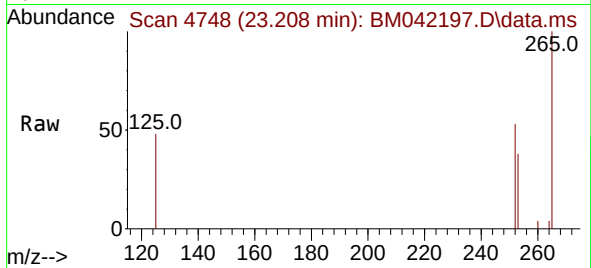
Tgt Ion:252 Resp: 4695  
Ion Ratio Lower Upper  
252 100  
253 48.4 0.0 59.0  
125 58.0 0.0 49.6





#25  
Benzo(k)fluoranthene  
Concen: 0.047 ng/ul m  
RT: 23.208 min Scan# 4753  
Delta R.T. -0.020 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

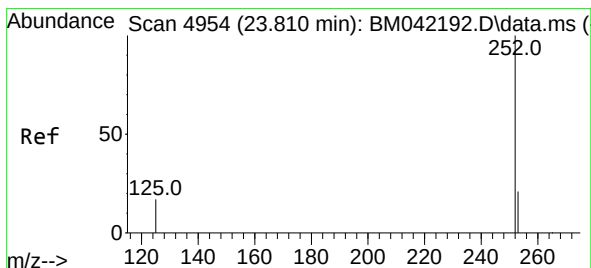
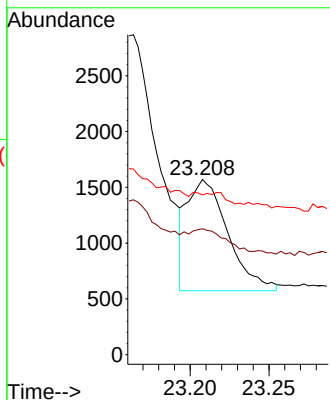
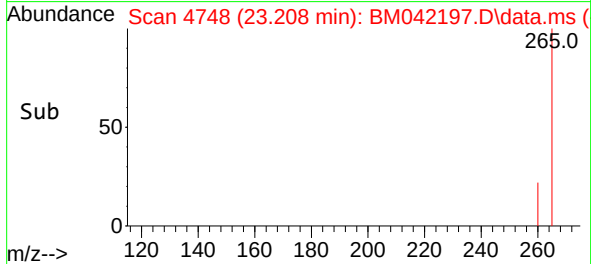
Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



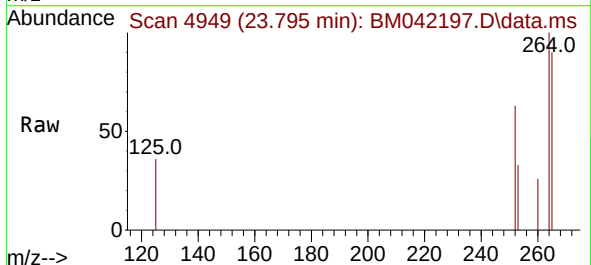
Tgt Ion:252 Resp: 1807  
Ion Ratio Lower Upper  
252 100  
253 71.9 23.4 35.0#  
125 91.2 19.9 29.9#

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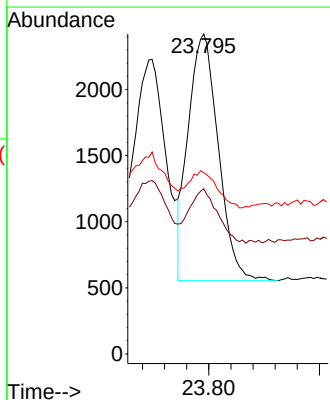
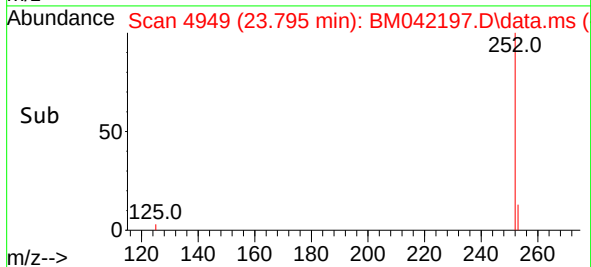
Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023

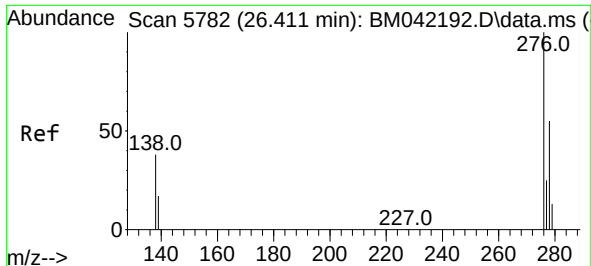


#26  
Benzo(a)pyrene  
Concen: 0.105 ng/ul  
RT: 23.795 min Scan# 4949  
Delta R.T. -0.020 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51



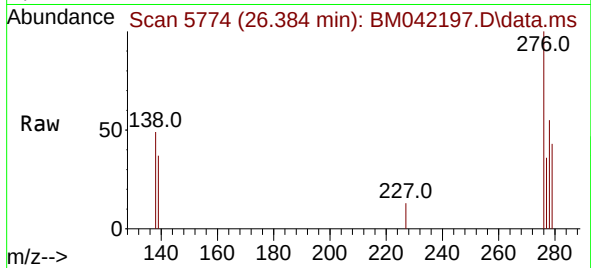
Tgt Ion:252 Resp: 3529  
Ion Ratio Lower Upper  
252 100  
253 51.6 25.3 37.9#  
125 56.7 23.2 34.8#





#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.056 ng/ul  
 RT: 26.384 min Scan# 5774  
 Delta R.T. -0.033 min  
 Lab File: BM042197.D  
 Acq: 04 Oct 2023 21:51

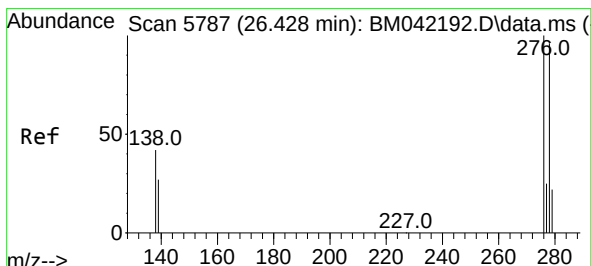
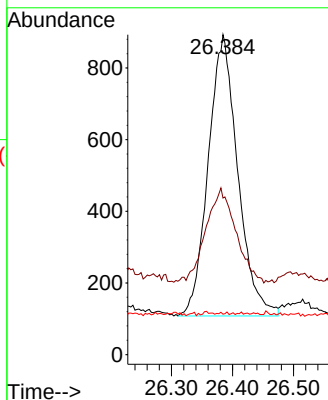
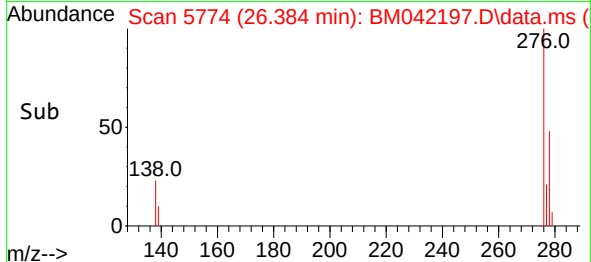
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BBHP1



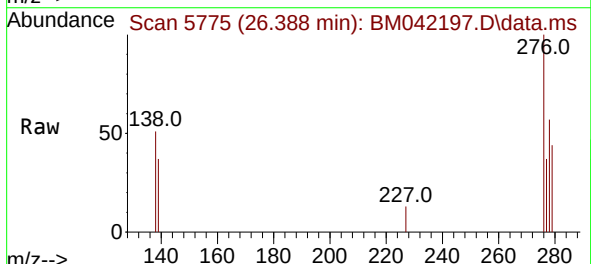
Tgt Ion:276 Resp: 263  
 Ion Ratio Lower Upper  
 276 100  
 138 33.9 26.7 40.1  
 227 0.0 0.2 0.2

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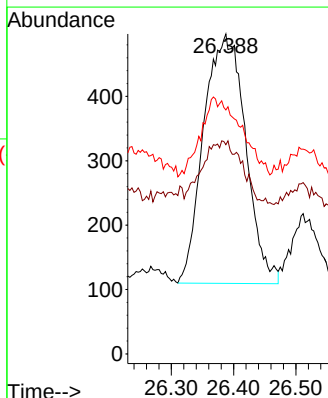
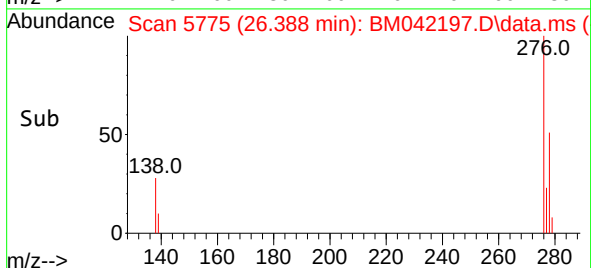
Reviewed By :Yogesh Patel 10/05/2023  
 Supervised By :mohammad ahmed 10/06/2023

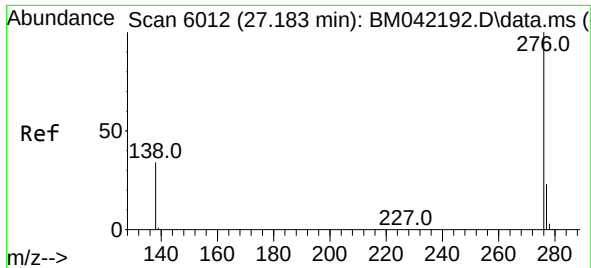


#28  
 Dibenzo(a,h)anthracene  
 Concen: 0.050 ng/ul  
 RT: 26.388 min Scan# 5775  
 Delta R.T. -0.047 min  
 Lab File: BM042197.D  
 Acq: 04 Oct 2023 21:51



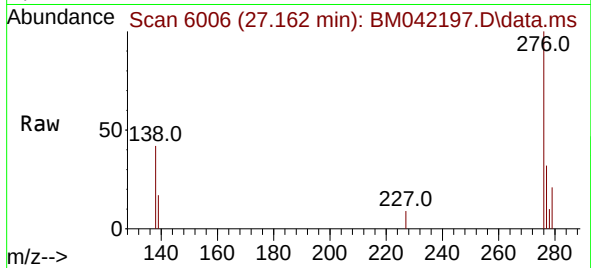
Tgt Ion:278 Resp: 1804  
 Ion Ratio Lower Upper  
 278 100  
 139 65.4 21.7 32.5#  
 279 76.3 22.4 33.6#





#29  
Benzo(g,h,i)perylene  
Concen: 0.109 ng/ul  
RT: 27.162 min Scan# 6012  
Delta R.T. -0.033 min  
Lab File: BM042197.D  
Acq: 04 Oct 2023 21:51

Instrument :  
BNA\_M  
ClientSampleId :  
BBHP1



Tgt Ion:276 Resp: 4308  
Ion Ratio Lower Upper  
276 100  
138 41.6 26.8 40.2  
277 31.6 20.1 30.1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/05/2023  
Supervised By :mohammad ahmed 10/06/2023

