

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM121523\  
 Data File : BM043370.D  
 Acq On : 15 Dec 2023 22:37  
 Operator : MA/JU  
 Sample : 05794-11  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BH3Q6

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/16/2023  
 Supervised By :mohammad ahmed 12/16/2023

Quant Time: Dec 15 23:16:17 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM121523.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 22:09:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.992  | 152  | 467003   | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8            | 10.804 | 136  | 2094628  | 20.000 | ng/u1 | 0.00     |
| 38) Acenaphthene-d10          | 14.621 | 164  | 1133339  | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10          | 17.368 | 188  | 1909013  | 20.000 | ng/u1 | 0.00     |
| 79) Chrysene-d12              | 21.539 | 240  | 1243993  | 20.000 | ng/u1 | 0.00     |
| 88) Perylene-d12              | 23.956 | 264  | 1385603  | 20.000 | ng/u1 | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8             | 3.387  | 96   | 25032    | 1.742  | ng/uL | 0.00     |
| 4) Pyridine-d5                | 3.822  | 84   | 41991    | 1.015  | ng/u1 | 0.02     |
| 7) Phenol-d5                  | 7.151  | 99   | 498648   | 9.386  | ng/u1 | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.328  | 67   | 372885   | 11.083 | ng/u1 | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.516  | 132  | 420818   | 10.375 | ng/u1 | 0.00     |
| 15) 4-Methylphenol-d8         | 8.704  | 113  | 333518   | 8.090  | ng/u1 | 0.00     |
| 21) Nitrobenzene-d5           | 9.163  | 128  | 218140   | 10.764 | ng/u1 | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.886  | 143  | 225328   | 10.761 | ng/u1 | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.422 | 165  | 394846   | 10.682 | ng/u1 | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.945 | 131  | 424370   | 7.804  | ng/u1 | 0.00     |
| 46) Dimethylphthalate-d6      | 14.039 | 166  | 1172649  | 11.494 | ng/u1 | 0.00     |
| 49) Acenaphthylene-d8         | 14.316 | 160  | 1459108  | 12.056 | ng/u1 | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.821 | 143  | 86439    | 4.476  | ng/u1 | 0.00     |
| 60) Fluorene-d10              | 15.616 | 176  | 1021379  | 12.107 | ng/u1 | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.733 | 200  | 78236    | 6.197  | ng/u1 | 0.00     |
| 73) Anthracene-d10            | 17.462 | 188  | 1350036  | 12.610 | ng/u1 | 0.00     |
| 81) Pyrene-d10                | 19.751 | 212  | 1262083  | 12.851 | ng/u1 | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.803 | 264  | 1091810  | 12.769 | ng/u1 | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 16) Acetophenone              | 8.828  | 105  | 245778   | 3.894  | ng/u1 | 98       |
| 30) Naphthalene               | 10.851 | 128  | 284519   | 2.131  | ng/u1 | 98       |
| 36) 2-Methylnaphthalene       | 12.457 | 142  | 101525   | 1.117  | ng/u1 | 96       |
| 52) Acenaphthene              | 14.686 | 153  | 169749   | 1.853  | ng/u1 | 99       |
| 56) Dibenzofuran              | 15.021 | 168  | 256021   | 2.164  | ng/u1 | 99       |
| 61) Fluorene                  | 15.668 | 166  | 187329   | 1.854  | ng/u1 | 100      |
| 72) Phenanthrene              | 17.410 | 178  | 2895991  | 22.383 | ng/u1 | 99       |
| 74) Anthracene                | 17.498 | 178  | 436501   | 3.343  | ng/u1 | 99       |
| 77) Carbazole                 | 17.768 | 167  | 206071   | 1.849  | ng/u1 | 99       |
| 80) Fluoranthene              | 19.415 | 202  | 2690955  | 22.125 | ng/u1 | 98       |
| 82) Pyrene                    | 19.780 | 202  | 2226995  | 17.811 | ng/u1 | 99       |
| 85) Benzo(a)anthracene        | 21.521 | 228  | 922740   | 8.871  | ng/u1 | 98       |
| 87) Chrysene                  | 21.574 | 228  | 852913   | 9.114  | ng/u1 | 97       |
| 90) Benzo(b)fluoranthene      | 23.227 | 252  | 1055993  | 9.945  | ng/u1 | 98       |
| 91) Benzo(k)fluoranthene      | 23.268 | 252  | 328504m  | 3.172  | ng/u1 |          |
| 93) Benzo(a)pyrene            | 23.850 | 252  | 718761   | 7.419  | ng/u1 | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.474 | 276  | 475301   | 4.109  | ng/u1 | 97       |
| 95) Dibenzo(a,h)anthracene    | 26.480 | 278  | 135197m  | 1.411  | ng/u1 |          |
| 96) Benzo(g,h,i)perylene      | 27.244 | 276  | 268769   | 2.964  | ng/u1 | 99       |
| -----                         |        |      |          |        |       |          |

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

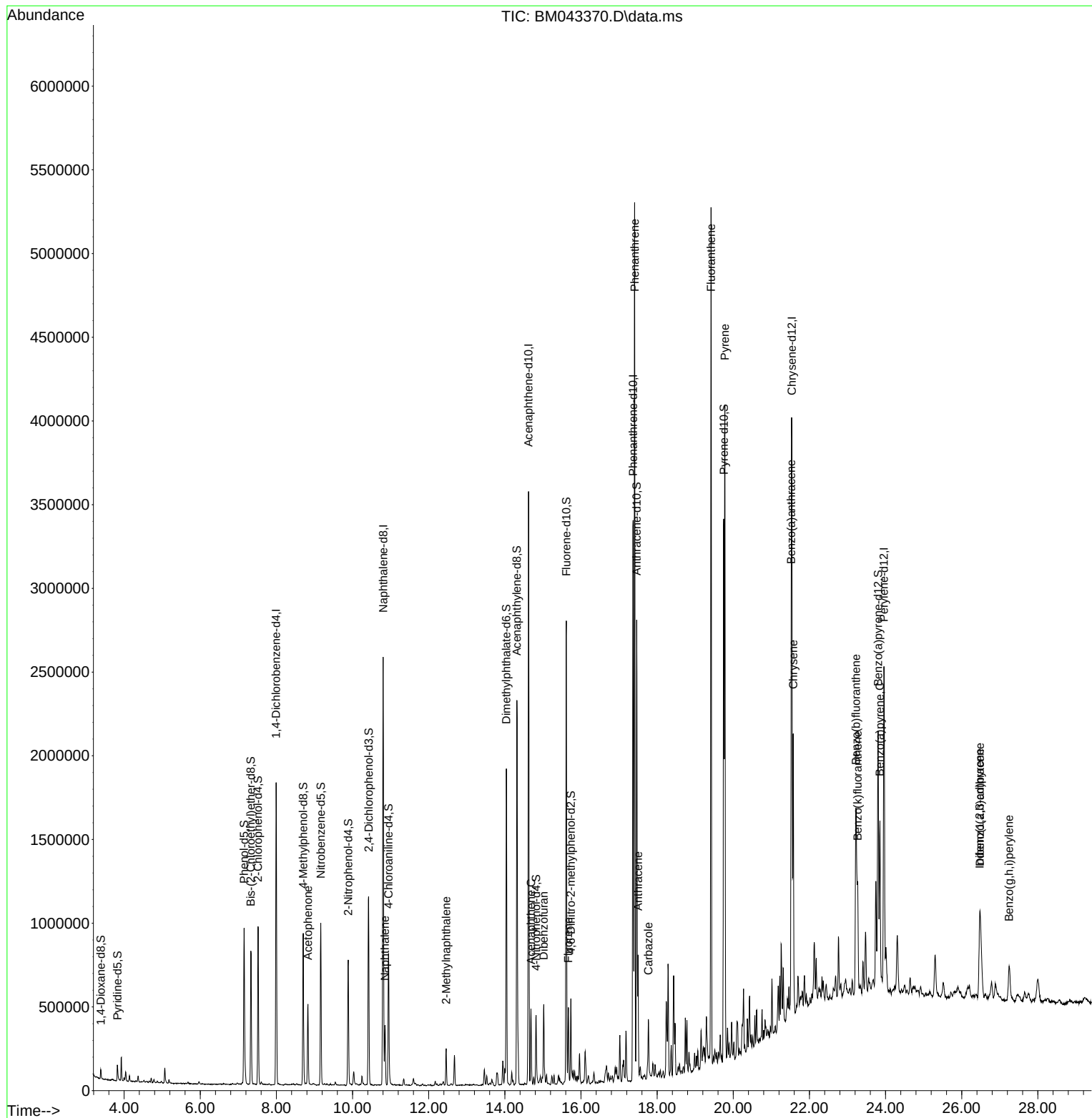
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 Data File : BM043370.D  
 Acq On : 15 Dec 2023 22:37  
 Operator : MA/JU  
 Sample : 05794-11  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

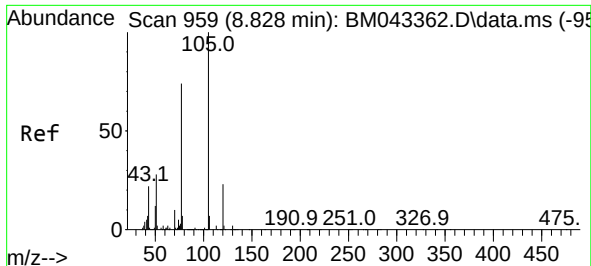
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BH3Q6

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/16/2023  
 Supervised By :mohammad ahmed 12/16/2023

Quant Time: Dec 15 23:16:17 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM121523.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 22:09:25 2023  
 Response via : Initial Calibration





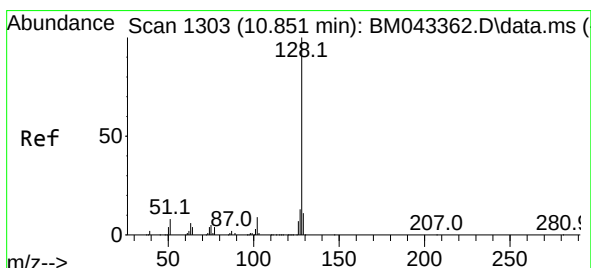
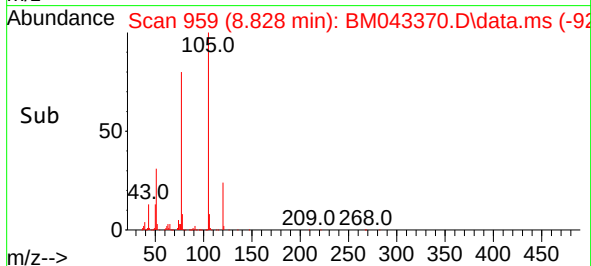
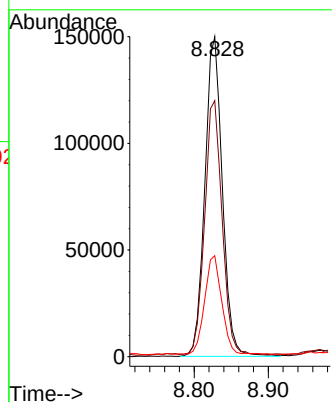
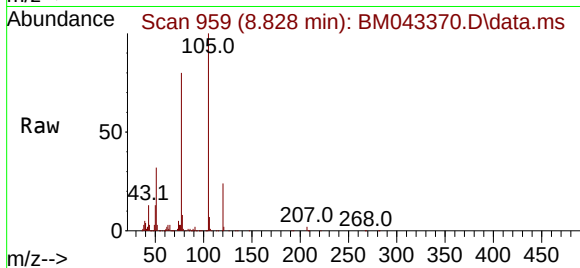
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Acetophenone  
Concen: 3.894 ng/ul  
RT: 8.828 min Scan# 959  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

Instrument :  
BNA\_M  
ClientSampleId :  
BH3Q6

Tgt Ion:105 Resp: 245778  
Ion Ratio Lower Upper  
105 100  
77 80.0 65.1 97.7  
51 31.5 24.3 36.5

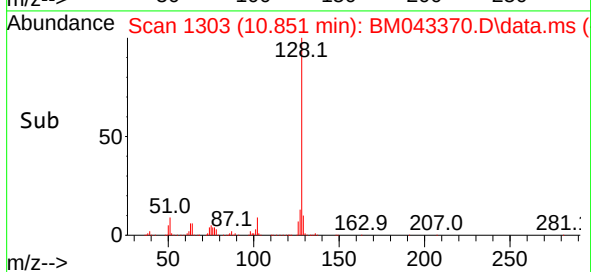
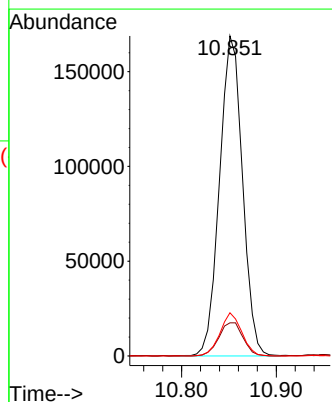
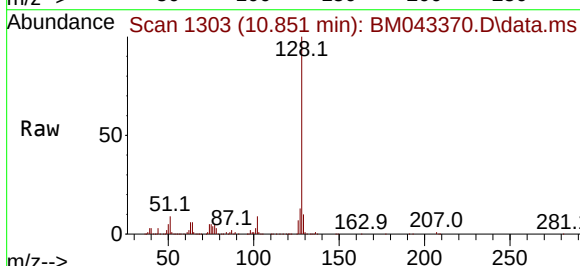
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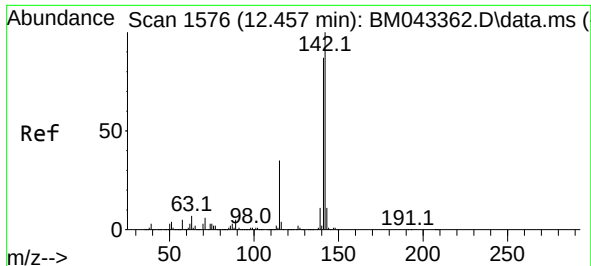
Reviewed By :Yogesh Patel 12/16/2023  
Supervised By :mohammad ahmed 12/16/2023



#30  
Naphthalene  
Concen: 2.131 ng/ul  
RT: 10.851 min Scan# 1303  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

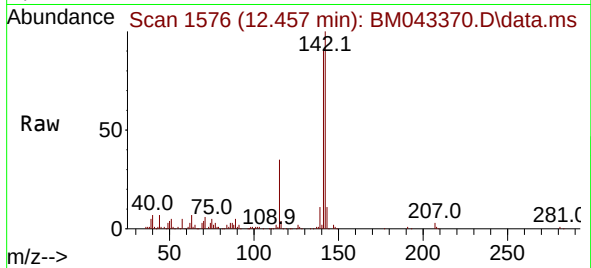
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Ion Ratio Lower Upper  
128 100  
129 10.3 8.8 13.2  
127 13.5 10.2 15.4





#36  
2-Methylnaphthalene  
Concen: 1.117 ng/ul  
RT: 12.457 min Scan# 1576  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

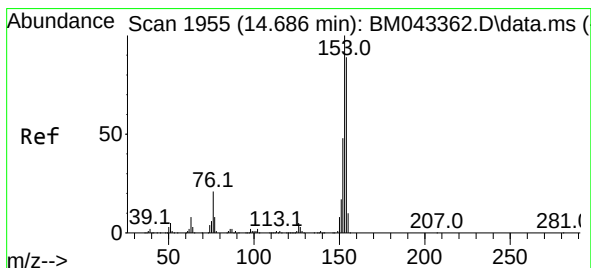
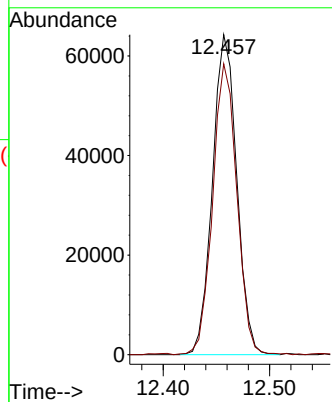
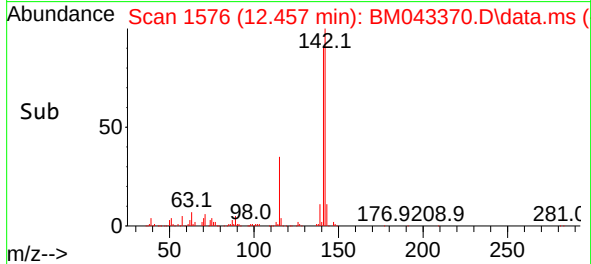
Instrument :  
BNA\_M  
ClientSampleId :  
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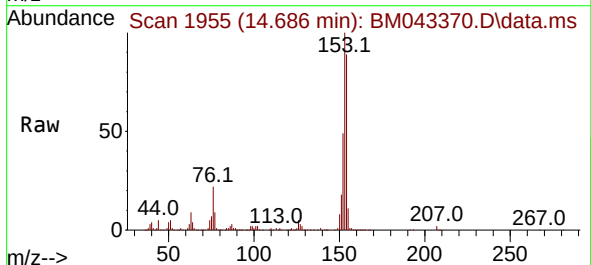
Tgt Ion:142 Resp: 101529  
Ion Ratio Lower Upper  
142 100  
141 90.9 69.9 104.9

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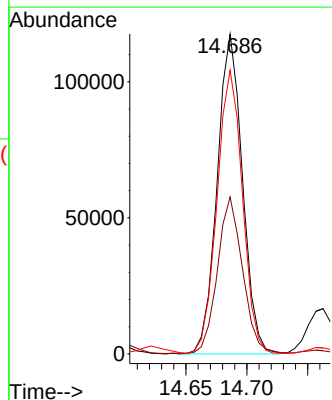
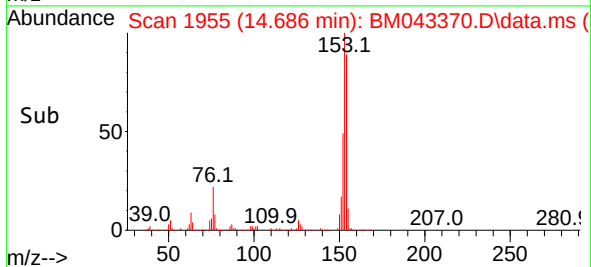
Reviewed By :Yogesh Patel 12/16/2023  
Supervised By :mohammad ahmed 12/16/2023

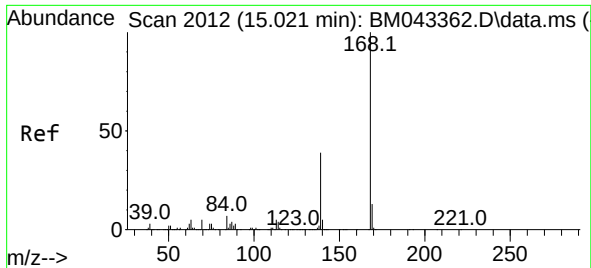


#52  
Acenaphthene  
Concen: 1.853 ng/ul  
RT: 14.686 min Scan# 1955  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37



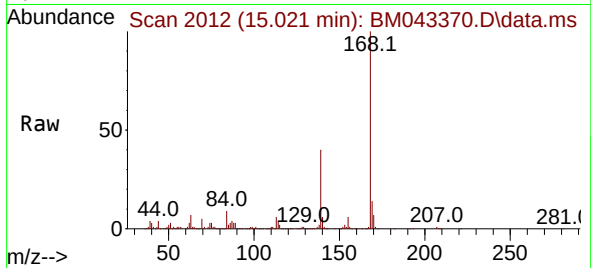
Tgt Ion:153 Resp: 169749  
Ion Ratio Lower Upper  
153 100  
152 49.1 38.1 57.1  
154 88.6 70.4 105.6





#56  
Dibenzenofuran  
Concen: 2.164 ng/ul  
RT: 15.021 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

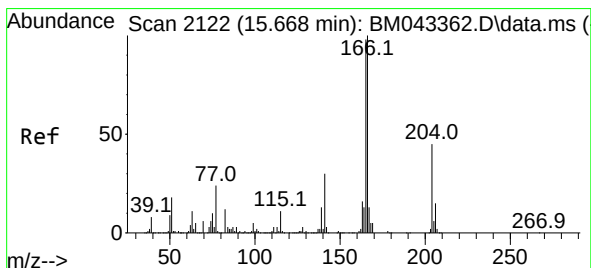
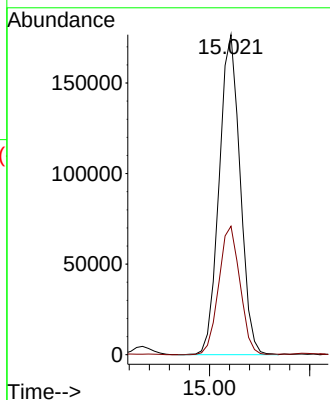
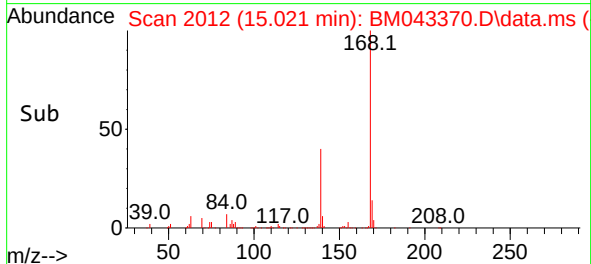
Instrument :  
BNA\_M  
ClientSampleId :  
BH3Q6



Tgt Ion:168 Resp: 25602  
Ion Ratio Lower Upper  
168 100  
139 40.1 31.8 47.8

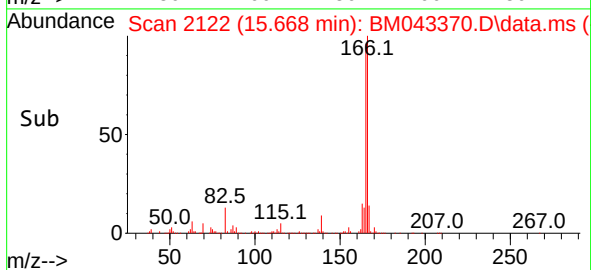
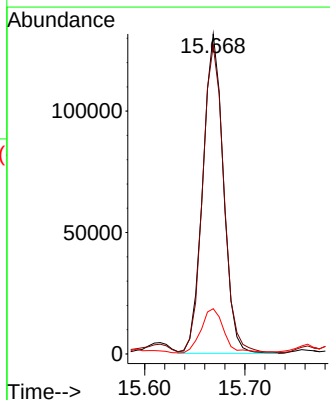
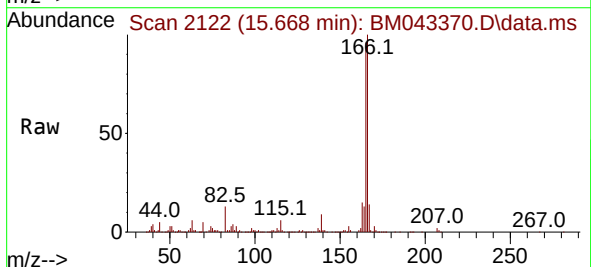
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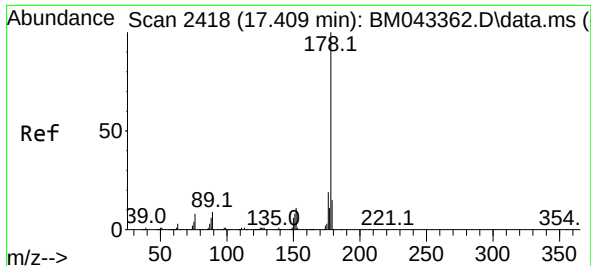
Reviewed By :Yogesh Patel 12/16/2023  
Supervised By :mohammad ahmed 12/16/2023



#61  
Fluorene  
Concen: 1.854 ng/ul  
RT: 15.668 min Scan# 2122  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

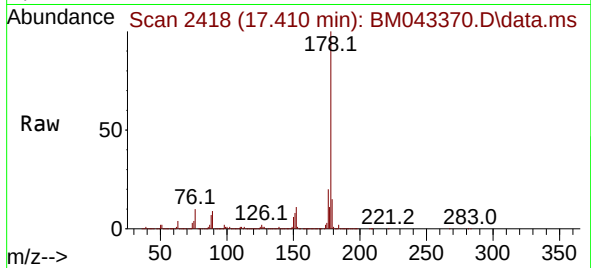
Tgt Ion:166 Resp: 187329  
Ion Ratio Lower Upper  
166 100  
165 96.3 76.9 115.3  
167 14.2 10.9 16.3





#72  
Phenanthrene  
Concen: 22.383 ng/u1  
RT: 17.410 min Scan# 2418  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

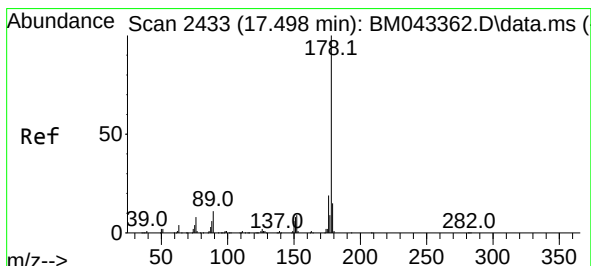
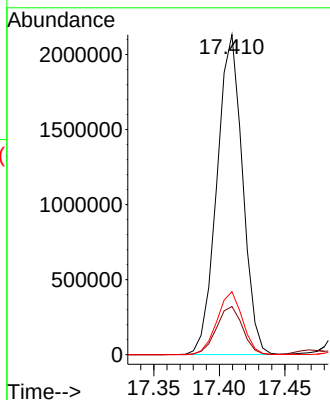
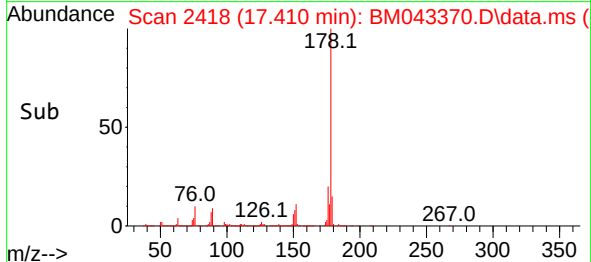
Instrument :  
BNA\_M  
ClientSampleId :  
BH3Q6



Tgt Ion:178 Resp: 289599  
Ion Ratio Lower Upper  
178 100  
179 15.1 12.2 18.4  
176 19.7 15.5 23.3

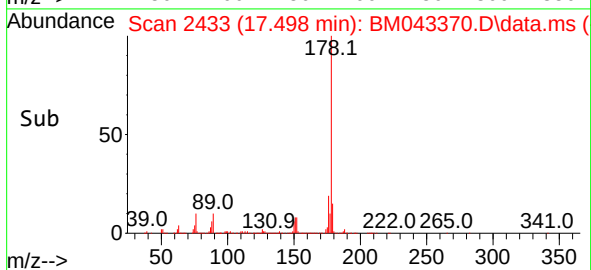
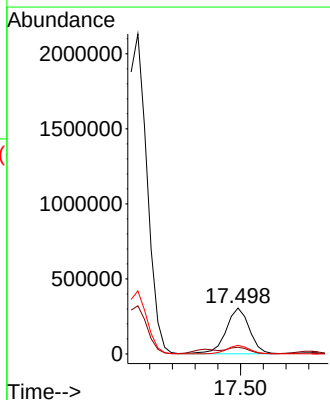
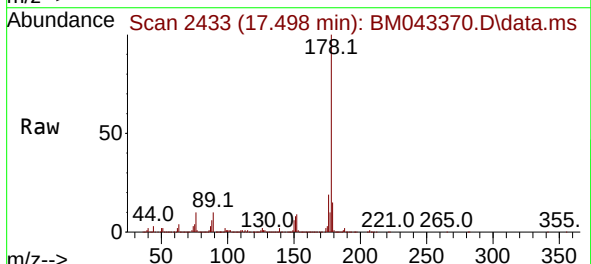
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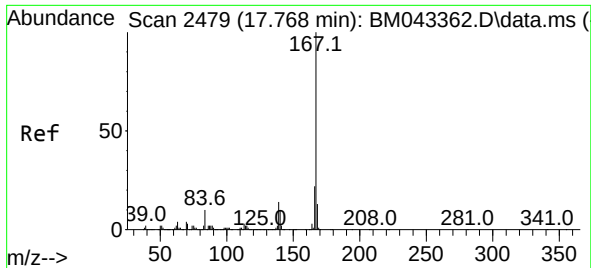
Reviewed By :Yogesh Patel 12/16/2023  
Supervised By :mohammad ahmed 12/16/2023



#74  
Anthracene  
Concen: 3.343 ng/u1  
RT: 17.498 min Scan# 2433  
Delta R.T. 0.000 min  
Lab File: BM043370.D  
Acq: 15 Dec 2023 22:37

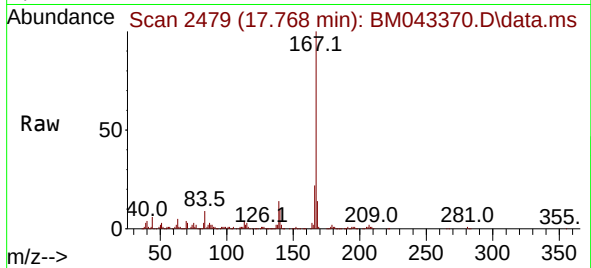
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Ion Ratio Lower Upper  
178 100  
179 14.7 12.4 18.6  
176 18.7 15.2 22.8





#77  
 Carbazole  
 Concen: 1.849 ng/ul  
 RT: 17.768 min Scan# 2479  
 Delta R.T. -0.006 min  
 Lab File: BM043370.D  
 Acq: 15 Dec 2023 22:37

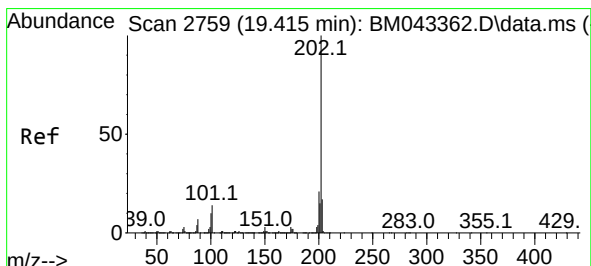
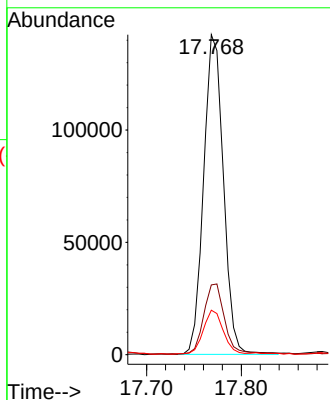
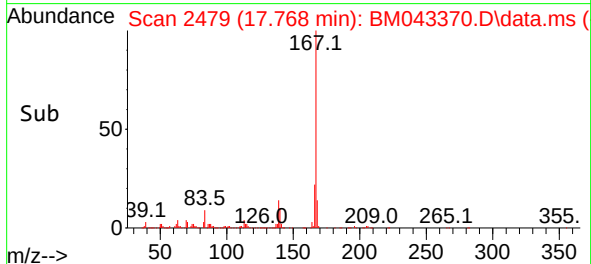
Instrument :  
 BNA\_M  
 ClientSampleId :  
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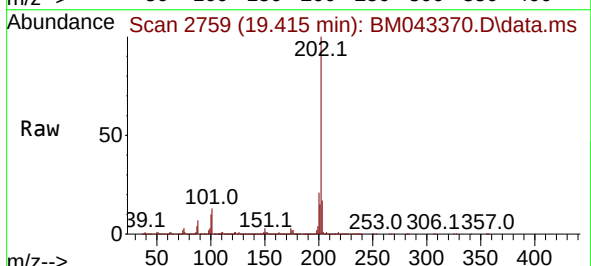
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 166 21.8 17.3 25.9  
 139 13.9 10.7 16.1

Manual Integrations  
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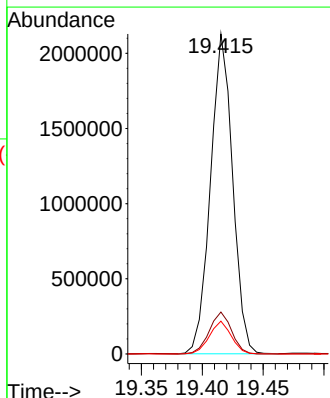
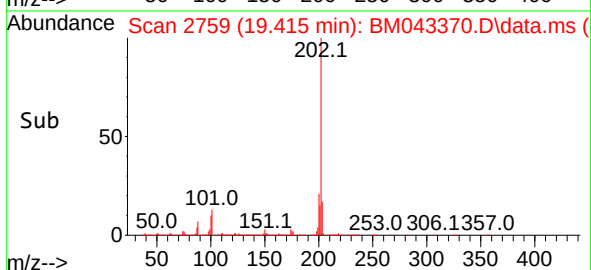
Reviewed By :Yogesh Patel 12/16/2023  
 Supervised By :mohammad ahmed 12/16/2023

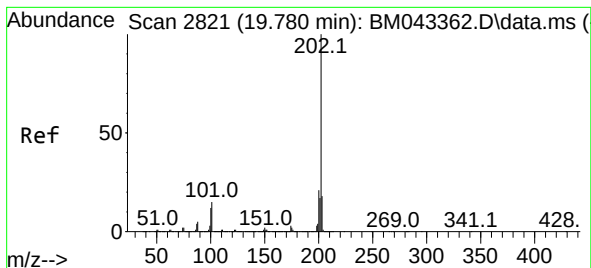


#80  
 Fluoranthene  
 Concen: 22.125 ng/ul  
 RT: 19.415 min Scan# 2759  
 Delta R.T. 0.000 min  
 Lab File: BM043370.D  
 Acq: 15 Dec 2023 22:37



Tgt Ion:202 Resp: 2690955  
 Ion Ratio Lower Upper  
 202 100  
 101 13.1 11.4 17.0  
 100 10.2 8.2 12.4





#82

Pyrene

Concen: 17.811 ng/ul

RT: 19.780 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Instrument :

BNA\_M

ClientSampleId :

BH3Q6

Tgt Ion:202 Resp: 222699

Ion Ratio Lower Upper

202 100

101 15.6 12.7 19.1

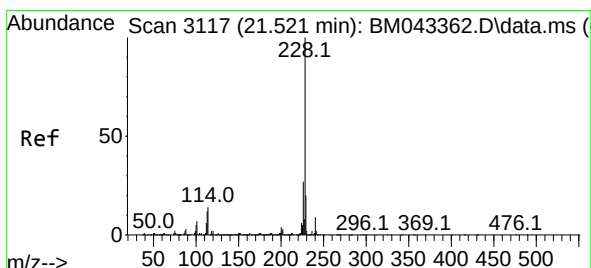
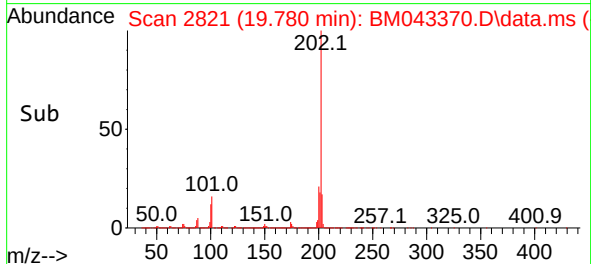
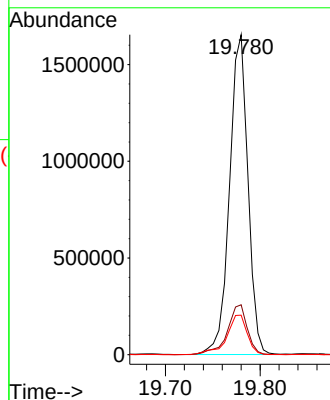
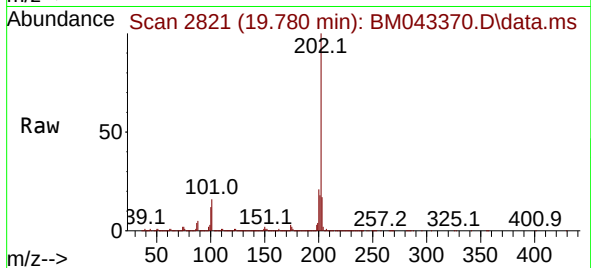
100 12.3 10.1 15.1

Manual Integrations

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Supervised By :mohammad ahmed 12/16/2023



#85

Benzo(a)anthracene

Concen: 8.871 ng/ul

RT: 21.521 min Scan# 3117

Delta R.T. 0.000 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

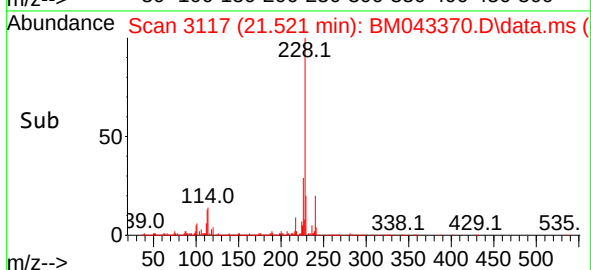
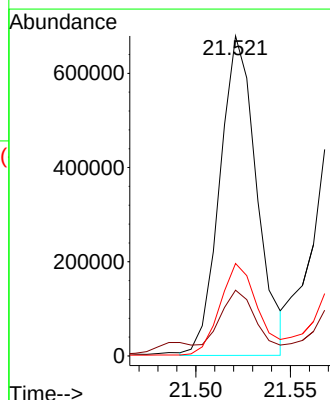
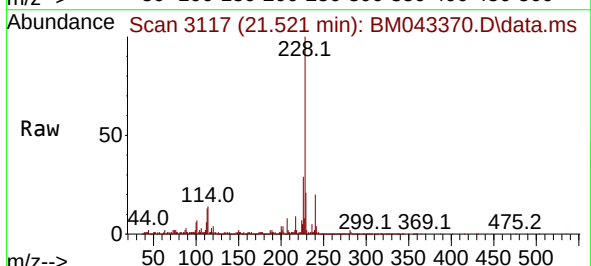
Tgt Ion:228 Resp: 922740

Ion Ratio Lower Upper

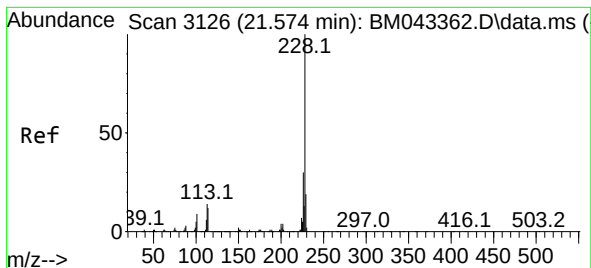
228 100

229 20.5 15.6 23.4

226 28.9 22.2 33.2







#87

Chrysene

Concen: 9.114 ng/ul

RT: 21.574 min Scan# 3126

Delta R.T. 0.000 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Instrument :

BNA\_M

ClientSampleId :

BH3Q6

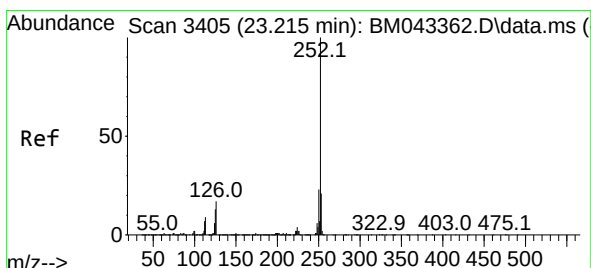
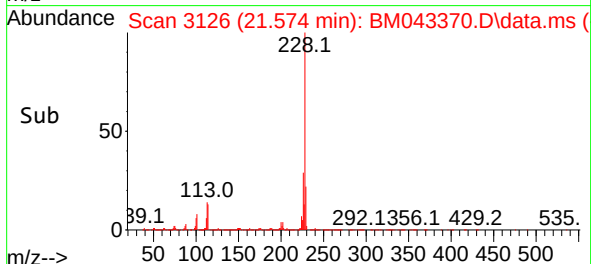
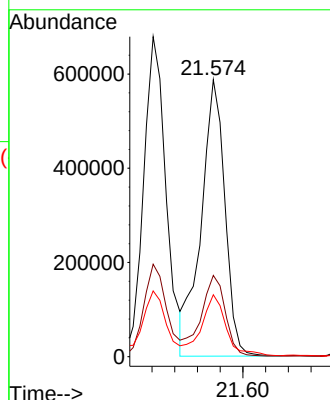
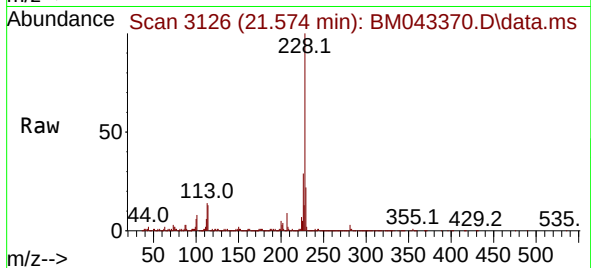
Tgt Ion:228 Resp: 852911  
 Ion Ratio Lower Upper  
 228 100  
 226 29.3 24.2 36.2  
 229 22.4 15.9 23.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/16/2023

Supervised By :mohammad ahmed 12/16/2023



#90

Benzo(b)fluoranthene

Concen: 9.945 ng/ul

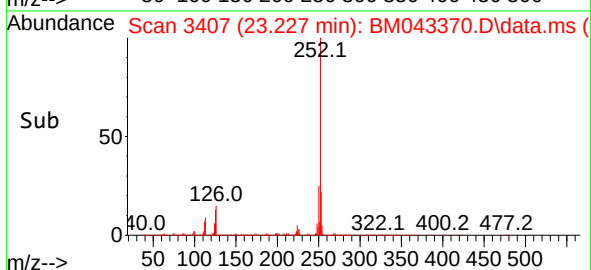
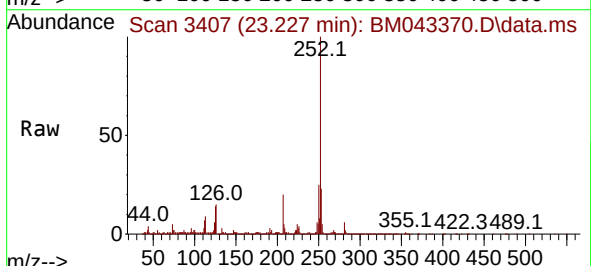
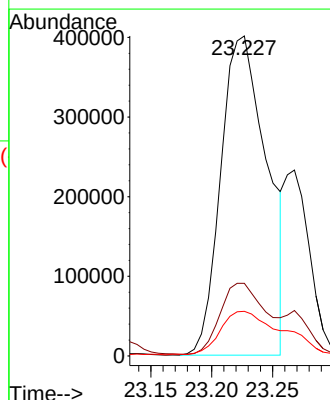
RT: 23.227 min Scan# 3407

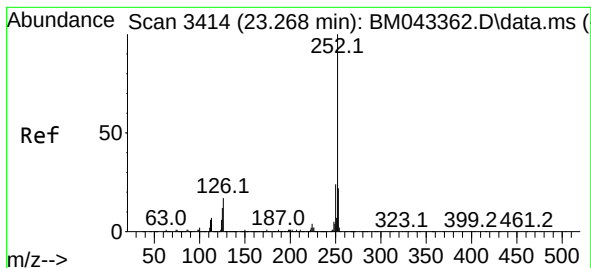
Delta R.T. 0.006 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Tgt Ion:252 Resp: 1055993  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 17.4 26.2  
 125 14.0 10.4 15.6





#91

Benzo(k)fluoranthene

Concen: 3.172 ng/ul m

RT: 23.268 min Scan# 3414

Delta R.T. 0.000 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Instrument :

BNA\_M

ClientSampleId :

BH3Q6

Tgt Ion:252 Resp: 328504

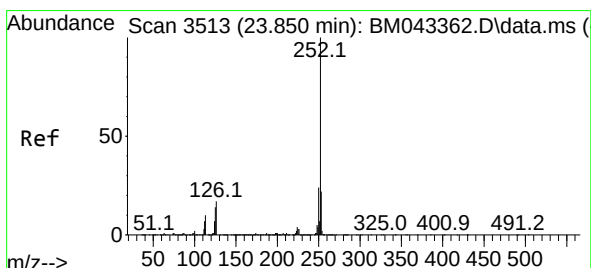
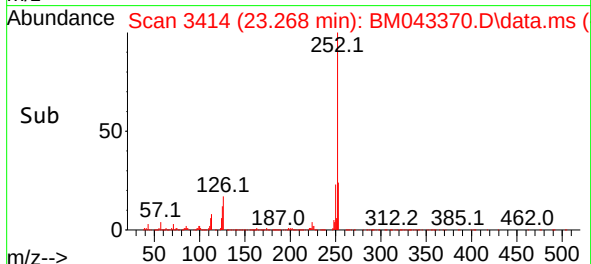
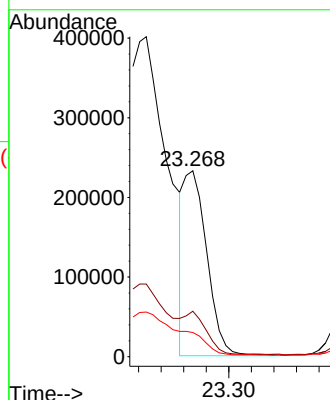
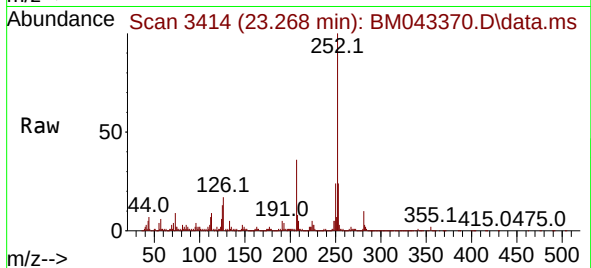
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.5  | 17.5  | 26.3  |
| 125 | 13.0  | 10.2  | 15.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/16/2023

Supervised By :mohammad ahmed 12/16/2023



#93

Benzo(a)pyrene

Concen: 7.419 ng/ul

RT: 23.850 min Scan# 3513

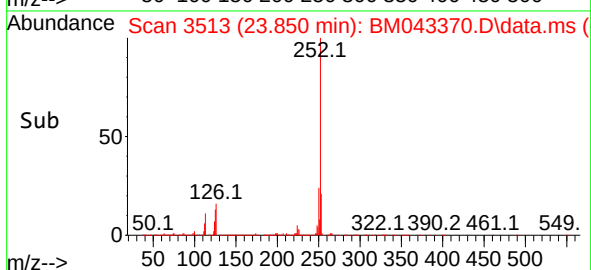
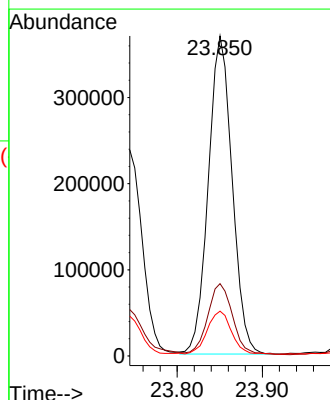
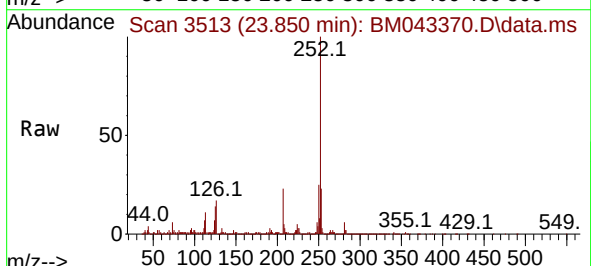
Delta R.T. 0.000 min

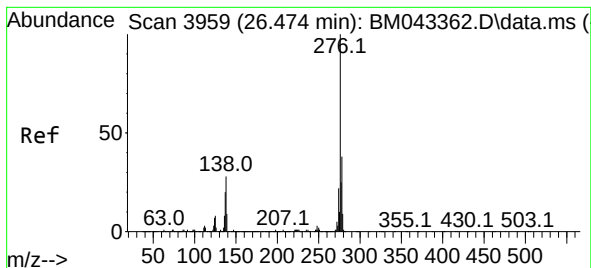
Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Tgt Ion:252 Resp: 718761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.6  | 17.9  | 26.9  |
| 125 | 14.0  | 11.4  | 17.2  |





#94

Indeno(1,2,3-cd)pyrene

Concen: 4.109 ng/ul

RT: 26.474 min Scan# 3959

Delta R.T. -0.006 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

Instrument :

BNA\_M

ClientSampleId :

BH3Q6

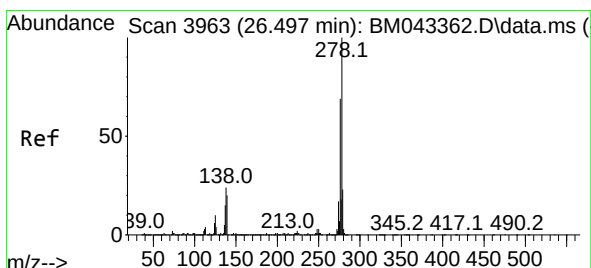
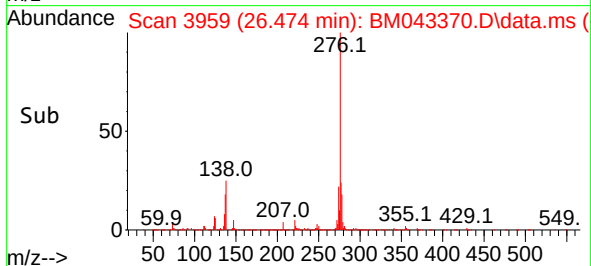
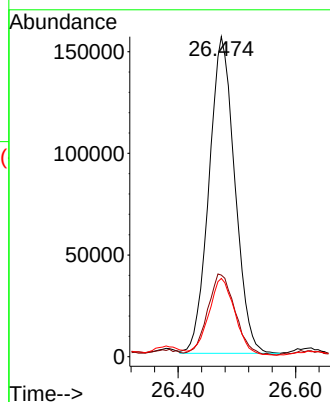
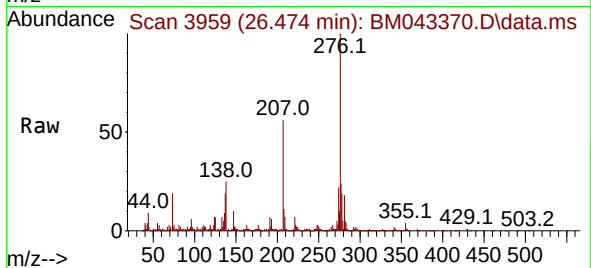
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 47530 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.5  | 22.6  | 34.0  |
| 277       | 24.5  | 19.7  | 29.5  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/16/2023

Supervised By :mohammad ahmed 12/16/2023



#95

Dibenzo(a,h)anthracene

Concen: 1.411 ng/ul m

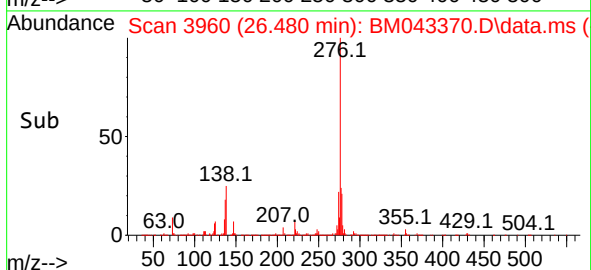
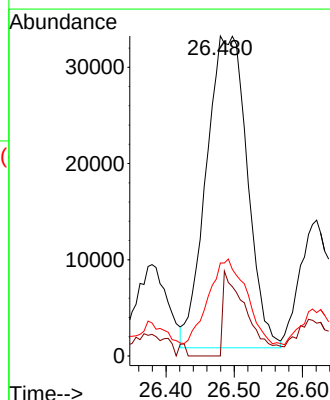
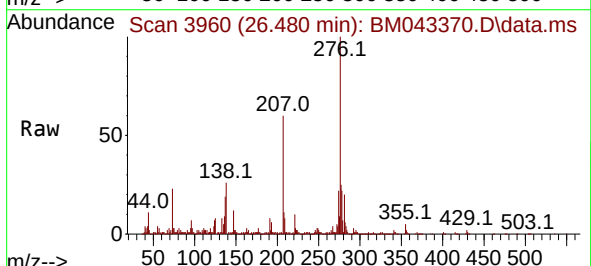
RT: 26.480 min Scan# 3960

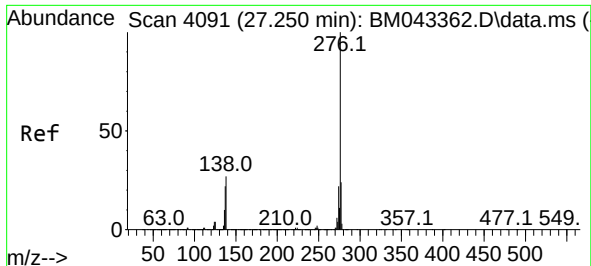
Delta R.T. -0.023 min

Lab File: BM043370.D

Acq: 15 Dec 2023 22:37

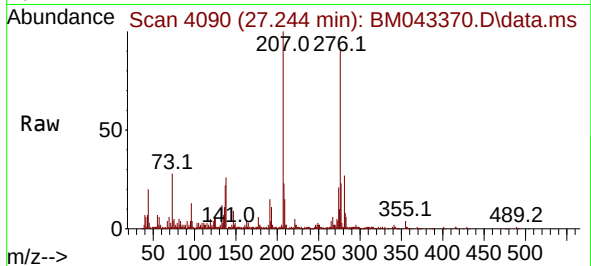
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 135197 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 0.0   | 16.0  | 24.0#  |
| 279       | 29.0  | 19.4  | 29.0   |





#96  
 Benzo(g,h,i)perylene  
 Concen: 2.964 ng/ul  
 RT: 27.244 min Scan# 4090  
 Delta R.T. -0.006 min  
 Lab File: BM043370.D  
 Acq: 15 Dec 2023 22:37

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BH3Q6



Tgt Ion: 276 Resp: 268769

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 28.0  | 22.4  | 33.6  |
| 277 | 24.7  | 19.1  | 28.7  |

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 12/16/2023  
 Supervised By :mohammad ahmed 12/16/2023

