

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
 Data File : BM046029.D  
 Acq On : 13 Jun 2024 18:36  
 Operator : MA/JU  
 Sample : P2648-18DL 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BHC50DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 14 00:27:34 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jun 11 16:01:34 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.434  | 152  | 122909   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.204 | 136  | 506797   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.080 | 164  | 307610   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.827 | 188  | 611910   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.044 | 240  | 582324   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.750 | 264  | 686100   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.046  | 96   | 2202     | 0.695  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 6.704  | 99   | 44606    | 4.272  | ng/u1  | 0.01     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.816  | 67   | 32906    | 4.389  | ng/u1  | 0.01     |
| 11) 2-Chlorophenol-d4         | 7.004  | 132  | 36911    | 4.733  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.222  | 113  | 32286    | 4.093  | ng/u1  | 0.01     |
| 21) Nitrobenzene-d5           | 8.616  | 128  | 18652m   | 4.707  | ng/u1  | 0.02     |
| 24) 2-Nitrophenol-d4          | 9.322  | 143  | 18207    | 4.540  | ng/u1  | 0.01     |
| 28) 2,4-Dichlorophenol-d3     | 9.892  | 165  | 33431    | 4.445  | ng/u1  | 0.03     |
| 31) 4-Chloroaniline-d4        | 10.422 | 131  | 19887m   | 1.911  | ng/u1  | 0.04     |
| 46) Dimethylphthalate-d6      | 13.539 | 166  | 112274   | 5.272  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.774 | 160  | 125496   | 5.075  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.410 | 143  | 9982m    | 2.172  | ng/u1  | 0.03     |
| 60) Fluorene-d10              | 15.086 | 176  | 94779    | 5.217  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.239 | 200  | 6316m    | 2.021  | ng/u1  | 0.02     |
| 73) Anthracene-d10            | 16.927 | 188  | 146820   | 5.519  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.227 | 212  | 155761   | 4.301  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.568 | 264  | 131657   | 4.106  | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 50) Acenaphthylene            | 13.804 | 152  | 113032   | 3.949  | ng/u1  | 98       |
| 61) Fluorene                  | 15.139 | 166  | 27006    | 1.301  | ng/u1# | 93       |
| 72) Phenanthrene              | 16.868 | 178  | 636523   | 19.742 | ng/u1  | 99       |
| 74) Anthracene                | 16.962 | 178  | 144134   | 4.476  | ng/u1  | 99       |
| 77) Carbazole                 | 17.251 | 167  | 48095    | 1.750  | ng/u1  | 97       |
| 80) Fluoranthene              | 18.892 | 202  | 1401557  | 31.925 | ng/u1  | 99       |
| 82) Pyrene                    | 19.256 | 202  | 1076881  | 23.874 | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.027 | 228  | 612405   | 15.231 | ng/u1  | 95       |
| 86) Bis(2-ethylhexyl)phtha... | 20.974 | 149  | 54521    | 1.996  | ng/u1  | 99       |
| 87) Chrysene                  | 21.080 | 228  | 656883   | 17.660 | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 22.909 | 252  | 924958   | 21.937 | ng/u1  | 100      |
| 91) Benzo(k)fluoranthene      | 22.956 | 252  | 283361   | 6.881  | ng/u1  | 95       |
| 93) Benzo(a)pyrene            | 23.621 | 252  | 400397   | 10.807 | ng/u1  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.738 | 276  | 354421   | 8.759  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.762 | 278  | 114981   | 3.593  | ng/u1# | 89       |
| 96) Benzo(g,h,i)perylene      | 27.668 | 276  | 97932    | 2.748  | ng/u1  | 100      |

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

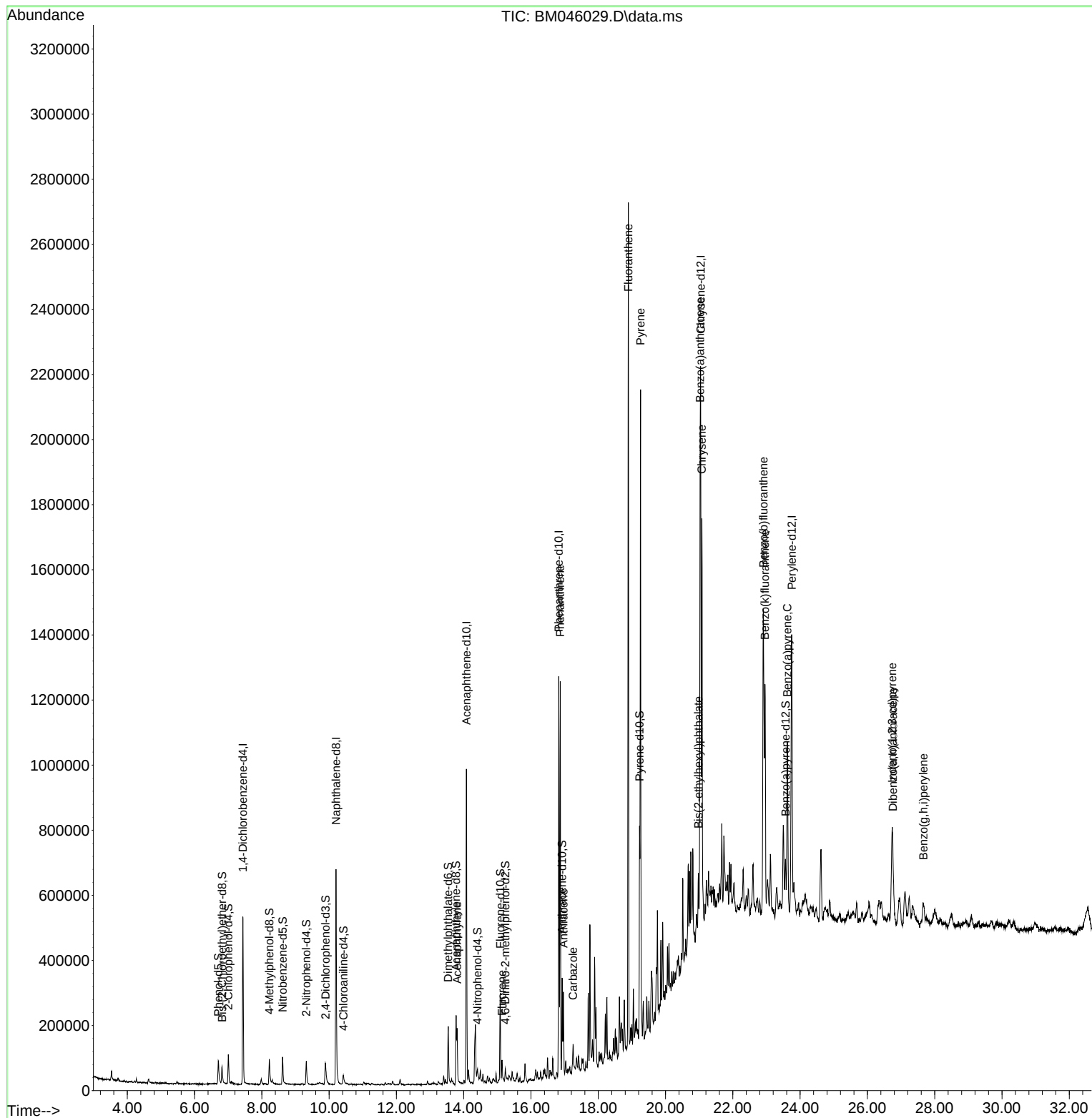
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061324\  
Data File : BM046029.D  
Acq On : 13 Jun 2024 18:36  
Operator : MA/JU  
Sample : P2648-18DL 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

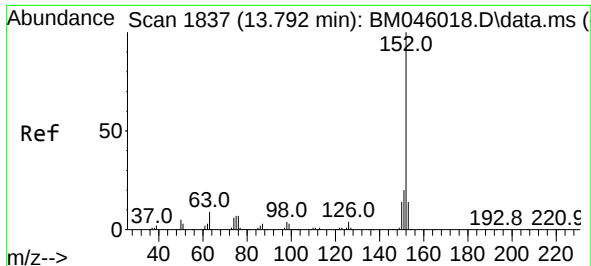
Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL

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Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

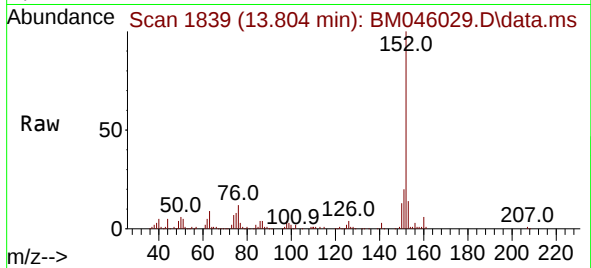
Quant Time: Jun 14 00:27:34 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Jun 11 16:01:34 2024  
Response via : Initial Calibration





#50  
Acenaphthylene  
Concen: 3.949 ng/ul  
RT: 13.804 min Scan# 1839  
Delta R.T. 0.006 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

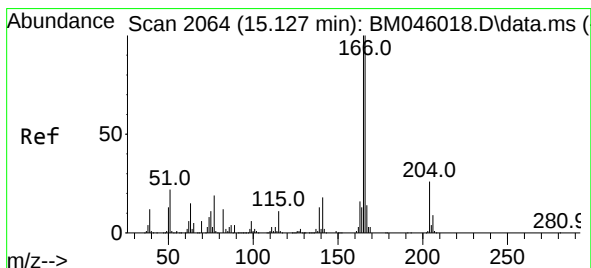
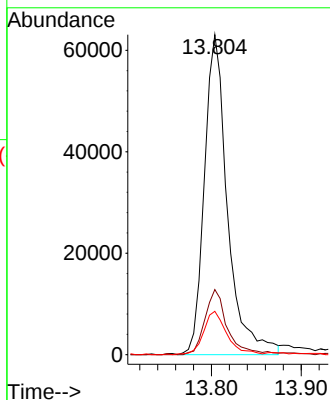
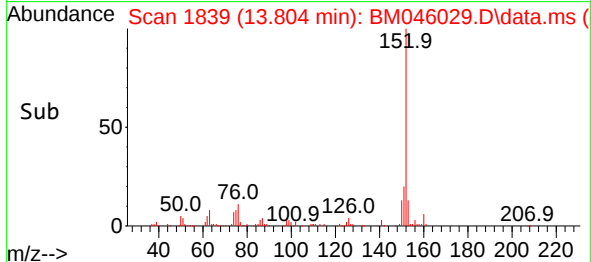
Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL



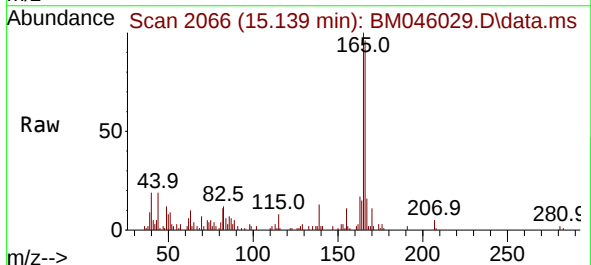
Tgt Ion:152 Resp: 11303  
Ion Ratio Lower Upper  
152 100  
151 20.4 15.6 23.4  
153 13.6 10.4 15.6

Manual Integrations  
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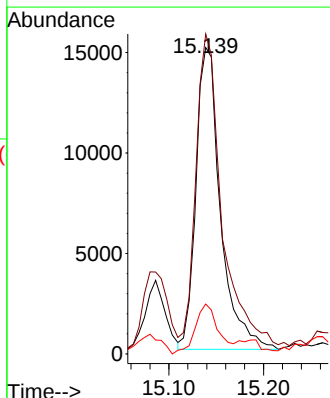
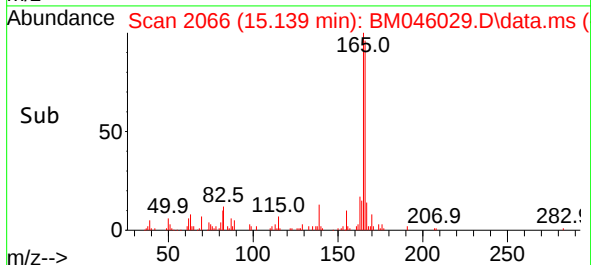
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

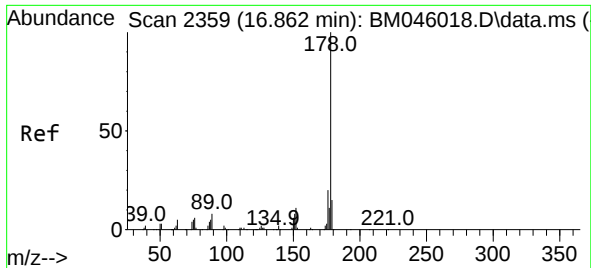


#61  
Fluorene  
Concen: 1.301 ng/ul  
RT: 15.139 min Scan# 2066  
Delta R.T. 0.006 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36



Tgt Ion:166 Resp: 27006  
Ion Ratio Lower Upper  
166 100  
165 104.4 78.1 117.1  
167 16.3 10.6 16.0#





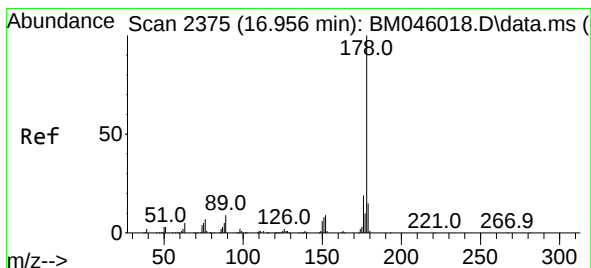
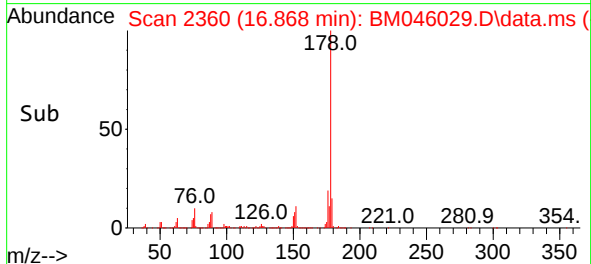
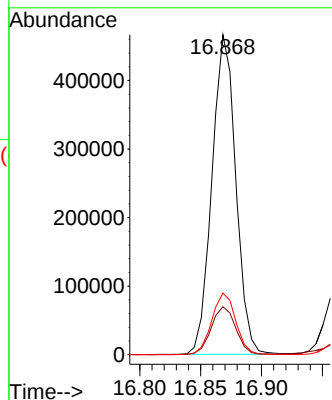
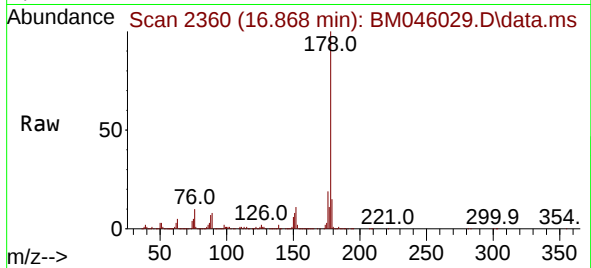
#72  
Phenanthrene  
Concen: 19.742 ng/ul  
RT: 16.868 min Scan# 2360  
Delta R.T. -0.000 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL

Tgt Ion:178 Resp: 63652  
Ion Ratio Lower Upper  
178 100  
179 15.0 12.4 18.6  
176 19.3 15.3 22.9

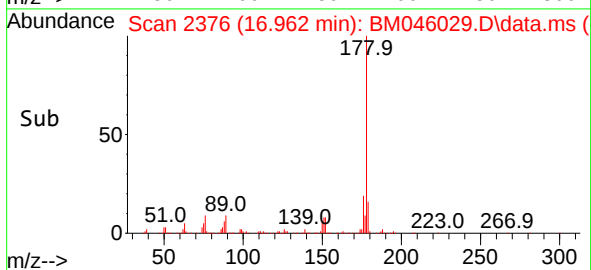
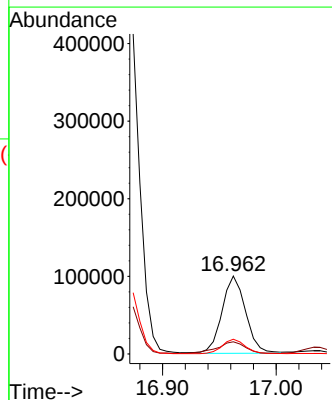
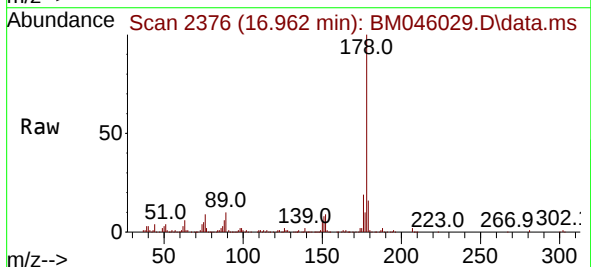
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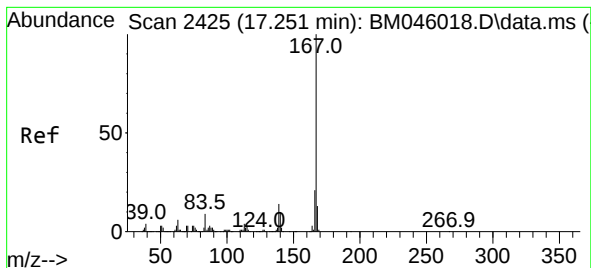
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#74  
Anthracene  
Concen: 4.476 ng/ul  
RT: 16.962 min Scan# 2376  
Delta R.T. -0.000 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

Tgt Ion:178 Resp: 144134  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.0 18.0  
176 18.9 15.0 22.6





#77

Carbazole

Concen: 1.750 ng/ul

RT: 17.251 min Scan# 2425

Delta R.T. -0.006 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

Instrument :

BNA\_M

ClientSampleId :

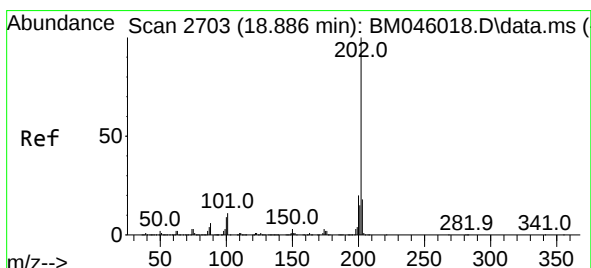
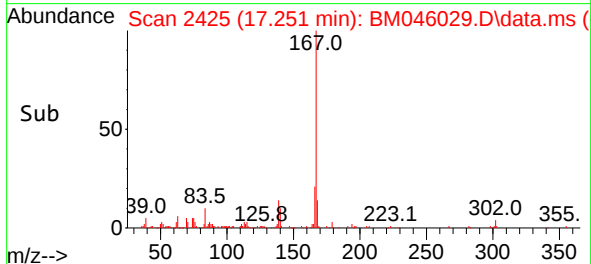
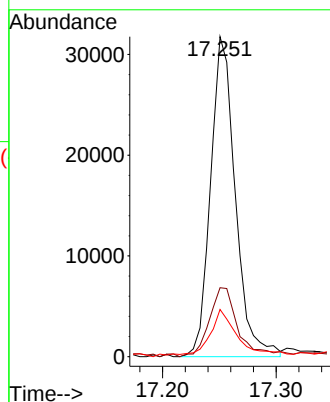
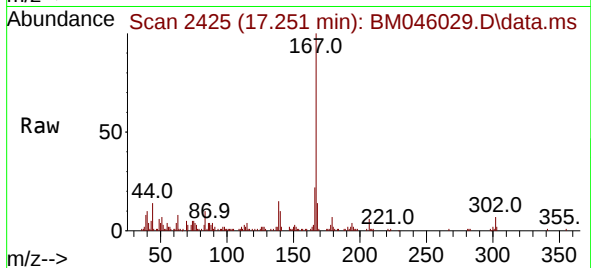
BHC50DL

|             |             |
|-------------|-------------|
| Tgt Ion:167 | Resp: 4809  |
| Ion Ratio   | Lower Upper |
| 167 100     |             |
| 166 21.6    | 16.6 24.8   |
| 139 14.8    | 10.6 16.0   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/14/2024  
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#80

Fluoranthene

Concen: 31.925 ng/ul

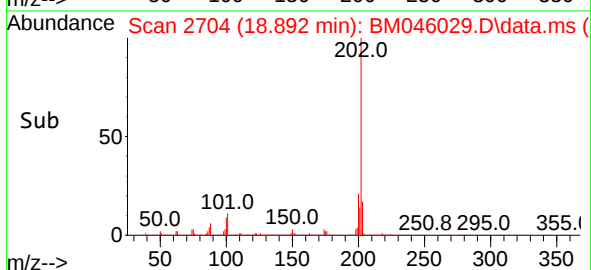
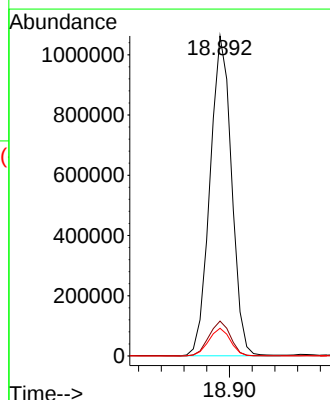
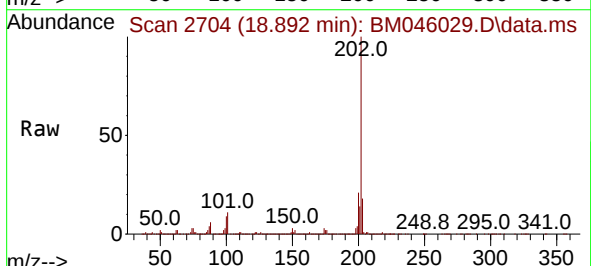
RT: 18.892 min Scan# 2704

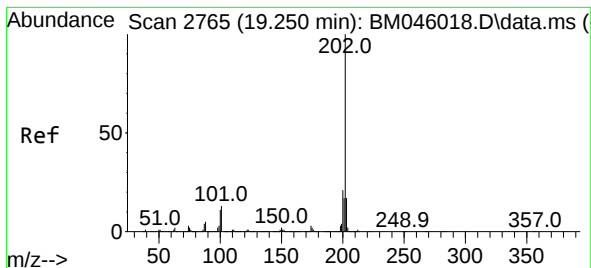
Delta R.T. -0.000 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

|             |               |
|-------------|---------------|
| Tgt Ion:202 | Resp: 1401557 |
| Ion Ratio   | Lower Upper   |
| 202 100     |               |
| 101 10.9    | 8.9 13.3      |
| 100 8.7     | 6.6 10.0      |





#82

Pyrene

Concen: 23.874 ng/ul

RT: 19.256 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

Instrument :

BNA\_M

ClientSampleId :

BHC50DL

Tgt Ion:202 Resp: 107688

Ion Ratio Lower Upper

202 100

101 12.1 10.5 15.7

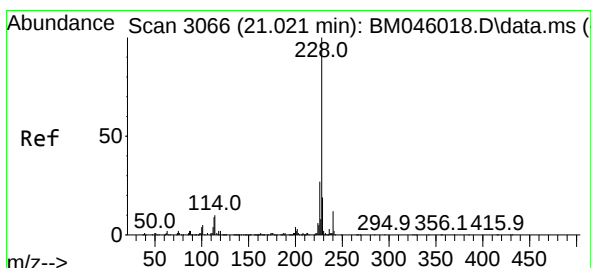
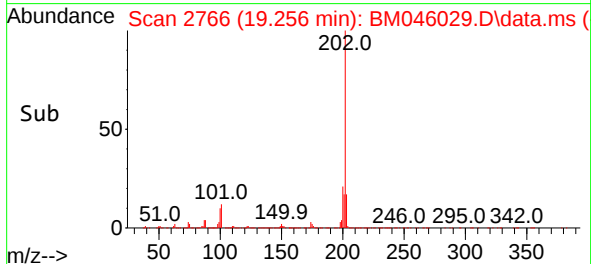
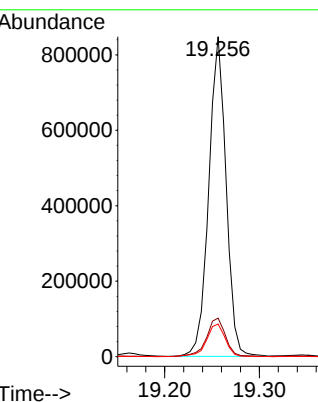
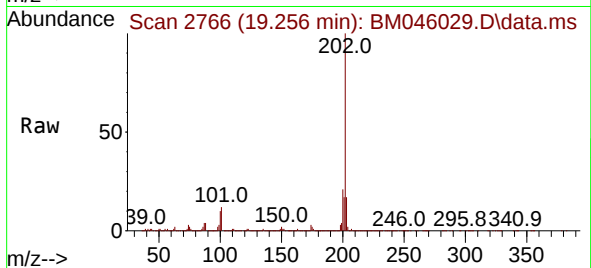
100 10.2 8.6 12.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/14/2024

Supervised By :mohammad ahmed 06/15/2024



#85

Benzo(a)anthracene

Concen: 15.231 ng/ul

RT: 21.027 min Scan# 3067

Delta R.T. -0.000 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

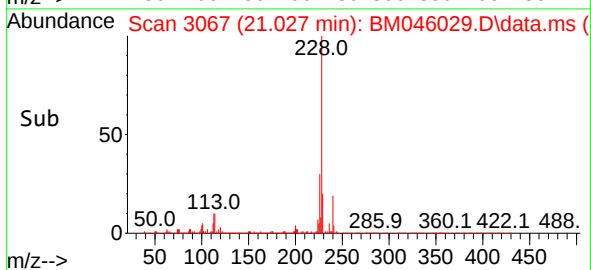
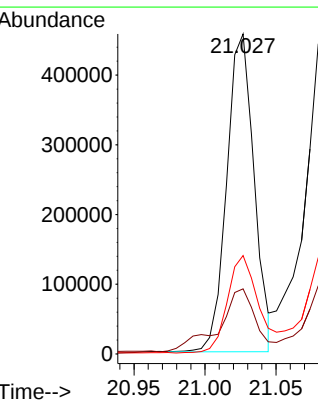
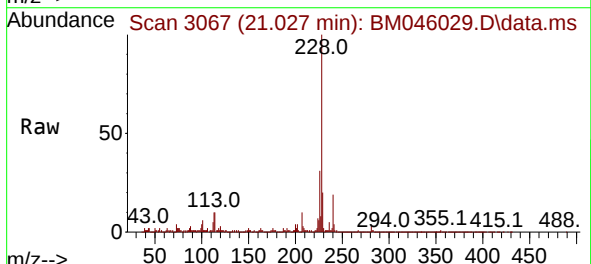
Tgt Ion:228 Resp: 612405

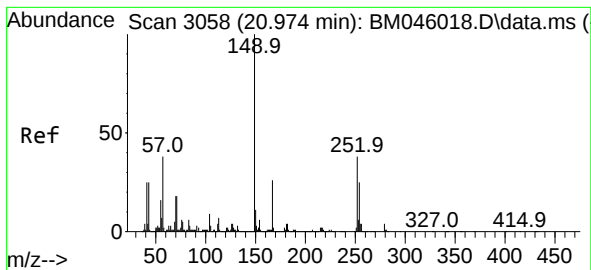
Ion Ratio Lower Upper

228 100

229 20.3 15.8 23.8

226 30.8 21.4 32.0





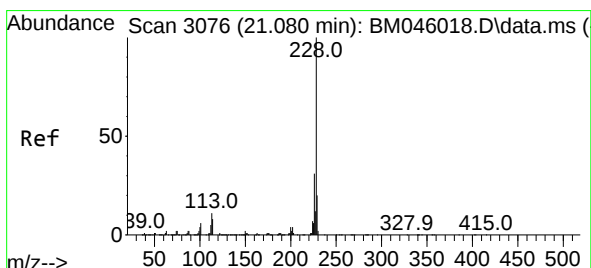
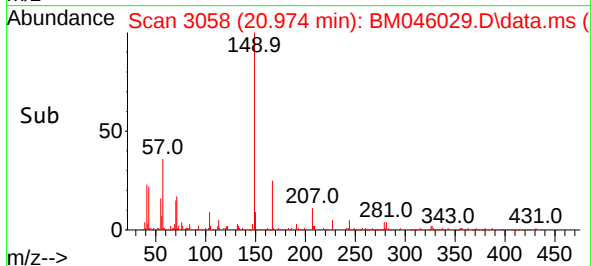
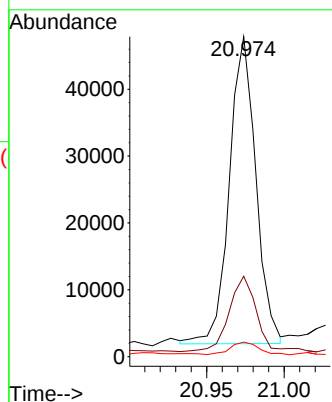
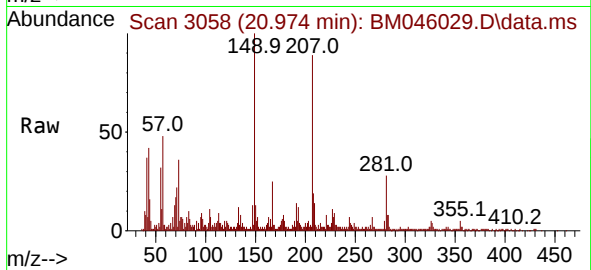
#86  
Bis(2-ethylhexyl)phthalate  
Concen: 1.996 ng/ul  
RT: 20.974 min Scan# 3058  
Delta R.T. -0.006 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL

Tgt Ion:149 Resp: 5452  
Ion Ratio Lower Upper  
149 100  
167 25.1 20.4 30.6  
279 4.6 3.1 4.7

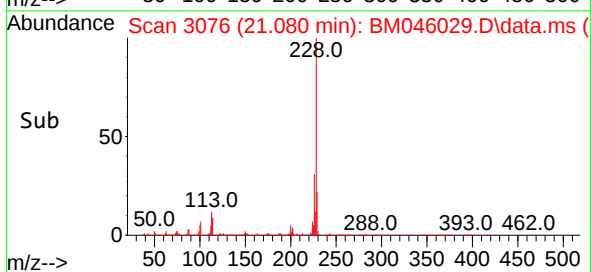
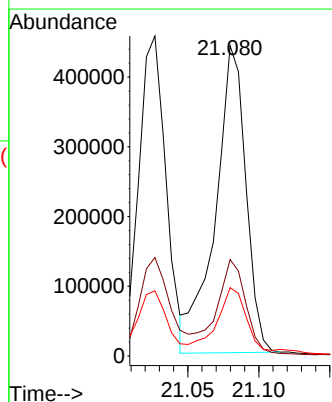
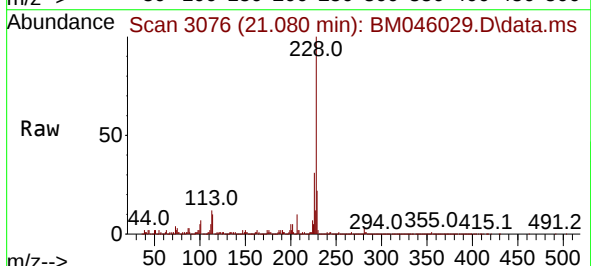
Manual Integrations  
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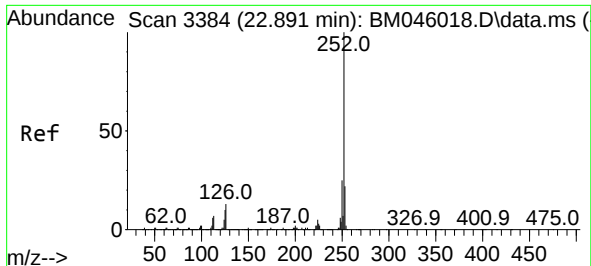
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#87  
Chrysene  
Concen: 17.660 ng/ul  
RT: 21.080 min Scan# 3076  
Delta R.T. -0.006 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

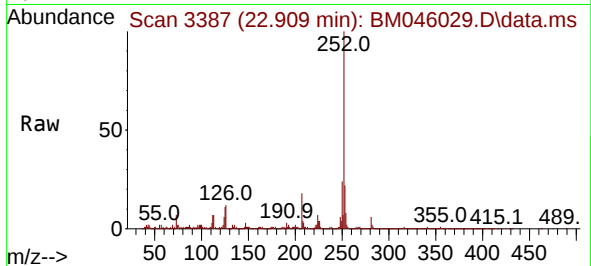
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Ion Ratio Lower Upper  
228 100  
226 31.1 24.2 36.2  
229 22.0 15.2 22.8





#90  
Benzo(b)fluoranthene  
Concen: 21.937 ng/ul  
RT: 22.909 min Scan# 3387  
Delta R.T. 0.006 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

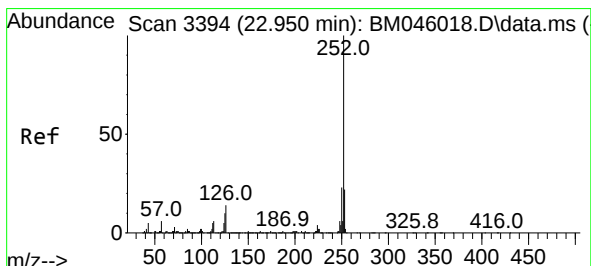
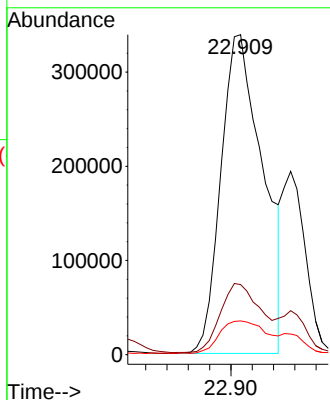
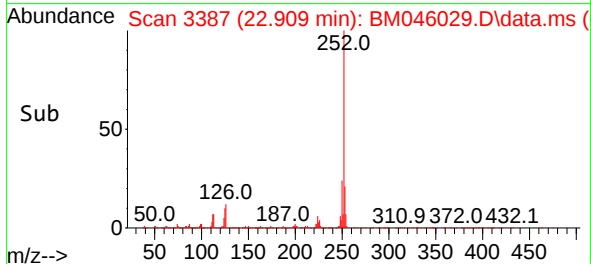
Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL



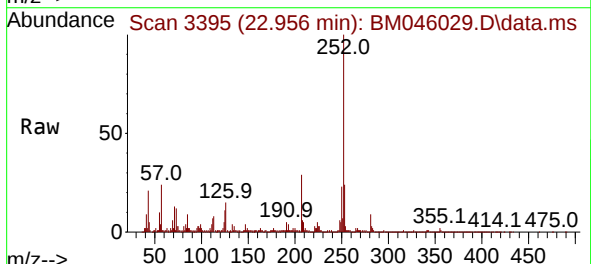
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Ion Ratio Lower Upper  
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125 10.6 8.4 12.6

Manual Integrations  
APPROVED

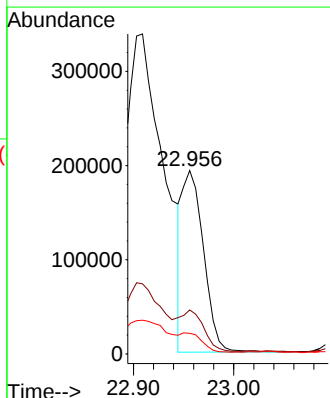
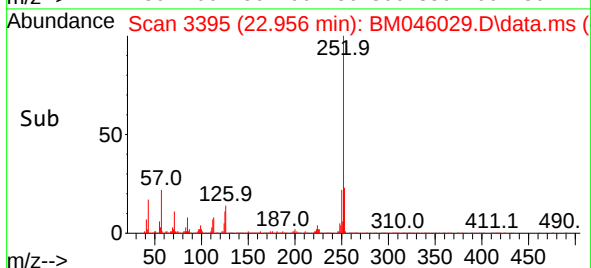
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

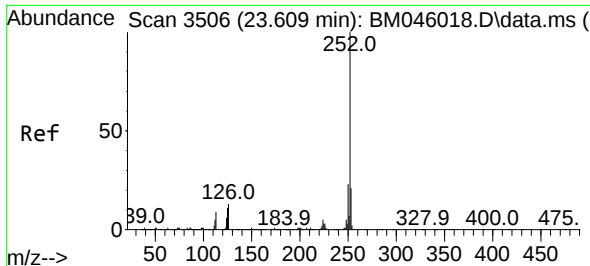


#91  
Benzo(k)fluoranthene  
Concen: 6.881 ng/ul  
RT: 22.956 min Scan# 3395  
Delta R.T. -0.000 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36



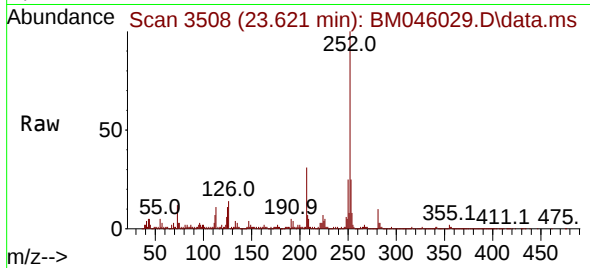
Tgt Ion:252 Resp: 283361  
Ion Ratio Lower Upper  
252 100  
253 24.0 16.8 25.2  
125 11.3 8.2 12.4





#93  
Benzo(a)pyrene  
Concen: 10.807 ng/ul  
RT: 23.621 min Scan# 3508  
Delta R.T. -0.000 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36

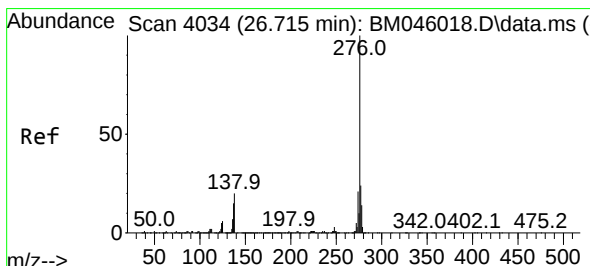
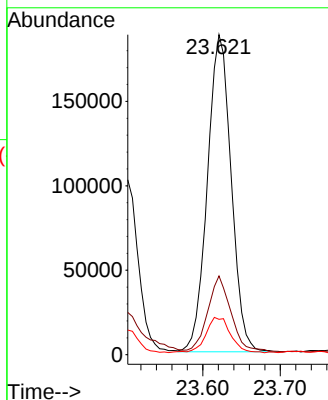
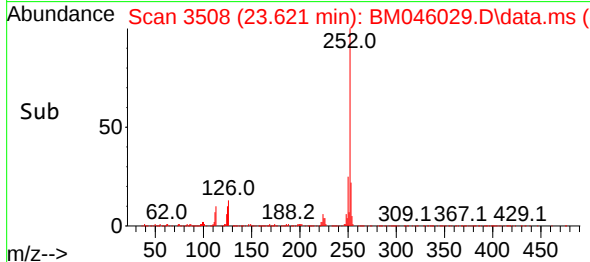
Instrument :  
BNA\_M  
ClientSampleId :  
BHC50DL



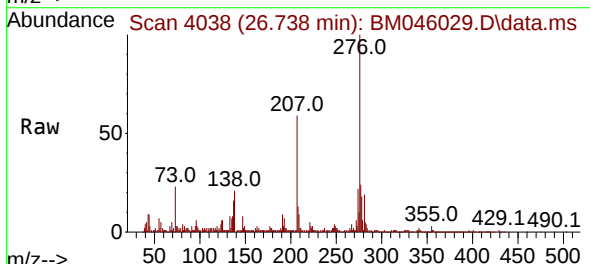
Tgt Ion:252 Resp: 400397  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.5 26.3  
125 11.1 9.3 13.9

Manual Integrations  
APPROVED

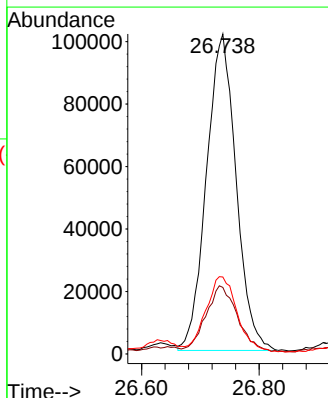
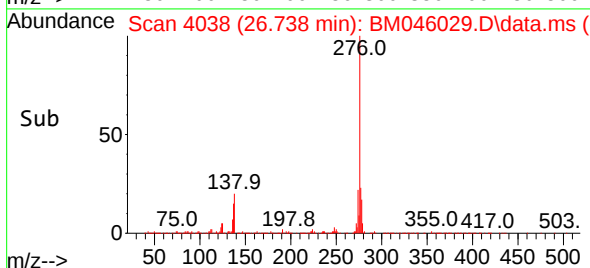
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

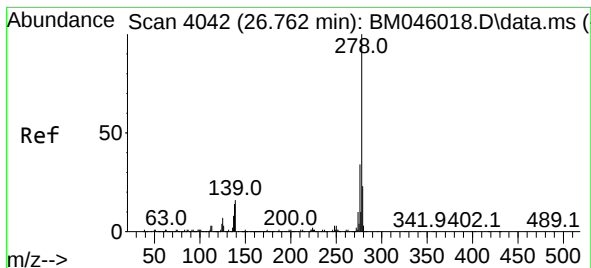


#94  
Indeno(1,2,3-cd)pyrene  
Concen: 8.759 ng/ul  
RT: 26.738 min Scan# 4038  
Delta R.T. 0.012 min  
Lab File: BM046029.D  
Acq: 13 Jun 2024 18:36



Tgt Ion:276 Resp: 354421  
Ion Ratio Lower Upper  
276 100  
138 20.8 17.9 26.9  
277 24.1 19.0 28.6





#95

Dibenzo(a,h)anthracene

Concen: 3.593 ng/ul

RT: 26.762 min Scan# 4042

Delta R.T. -0.012 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

Instrument :

BNM

ClientSampleId :

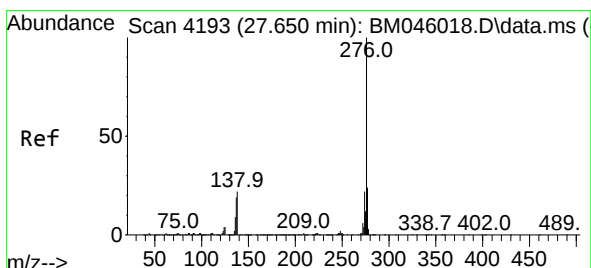
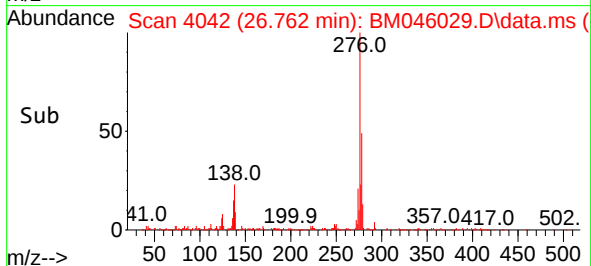
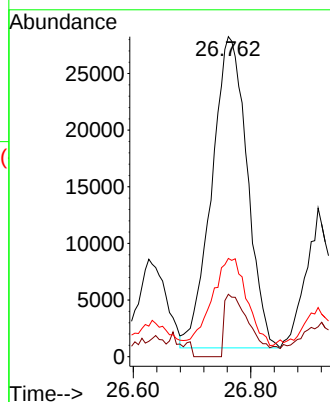
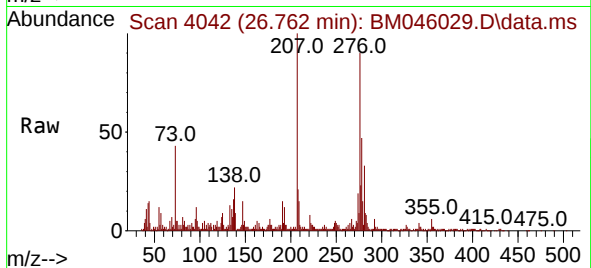
BHC50DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 11498 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.5  | 13.2  | 19.8  |
| 279       | 30.7  | 19.1  | 28.7  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#96

Benzo(g,h,i)perylene

Concen: 2.748 ng/ul

RT: 27.668 min Scan# 4196

Delta R.T. 0.012 min

Lab File: BM046029.D

Acq: 13 Jun 2024 18:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 97932 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.3  | 18.6  | 27.8  |
| 277       | 23.3  | 18.7  | 28.1  |

