

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045858.D  
 Acq On : 05 Jun 2024 20:15  
 Operator : MA/JU  
 Sample : P2586-02DL 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D15DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 06 02:10:51 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.463  | 152  | 275321   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.234 | 136  | 1069815  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.104 | 164  | 602339   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.851 | 188  | 1110343  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.062 | 240  | 959618   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.786 | 264  | 1098097  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.058  | 96   | 3800     | 0.535  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 6.722  | 99   | 65932    | 2.819  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.834  | 67   | 47260    | 2.814  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.028  | 132  | 55352    | 3.168  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.240  | 113  | 47140    | 2.668  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.634  | 128  | 25599    | 3.060  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.345  | 143  | 23347    | 2.758  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.898  | 165  | 44614    | 2.810  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.434 | 131  | 23706    | 1.079  | ng/u1  | 0.01     |
| 46) Dimethylphthalate-d6      | 13.563 | 166  | 137126   | 3.288  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.798 | 160  | 150684   | 3.112  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.416 | 143  | 10506m   | 1.167  | ng/u1  | 0.01     |
| 60) Fluorene-d10              | 15.104 | 176  | 114560   | 3.220  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 0.000  | 200  | 0d       | 0.000  | ng/u1  |          |
| 73) Anthracene-d10            | 16.951 | 188  | 158293   | 3.279  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.251 | 212  | 173871   | 2.914  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.597 | 264  | 125351   | 2.442  | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.281 | 128  | 145900   | 2.558  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 11.904 | 142  | 49823    | 1.319  | ng/u1  | 95       |
| 37) 1-Methylnaphthalene       | 12.128 | 142  | 45508    | 1.205  | ng/u1  | 100      |
| 50) Acenaphthylene            | 13.827 | 152  | 163363   | 2.915  | ng/u1  | 98       |
| 52) Acenaphthene              | 14.175 | 153  | 67276    | 1.799  | ng/u1  | 98       |
| 56) Dibenzofuran              | 14.516 | 168  | 131338   | 2.604  | ng/u1  | 97       |
| 61) Fluorene                  | 15.163 | 166  | 100591   | 2.475  | ng/u1  | 97       |
| 72) Phenanthrene              | 16.892 | 178  | 2832855  | 48.420 | ng/u1  | 99       |
| 74) Anthracene                | 16.986 | 178  | 264498   | 4.526  | ng/u1  | 98       |
| 77) Carbazole                 | 17.274 | 167  | 311992   | 6.257  | ng/u1  | 100      |
| 80) Fluoranthene              | 18.915 | 202  | 3615623  | 49.976 | ng/u1  | 99       |
| 82) Pyrene                    | 19.280 | 202  | 2187812  | 29.433 | ng/u1  | 100      |
| 85) Benzo(a)anthracene        | 21.045 | 228  | 672563   | 10.150 | ng/u1  | 96       |
| 87) Chrysene                  | 21.103 | 228  | 957587   | 15.622 | ng/u1  | 98       |
| 90) Benzo(b)fluoranthene      | 22.939 | 252  | 912816   | 13.527 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 22.986 | 252  | 384739m  | 5.837  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.656 | 252  | 291949   | 4.923  | ng/u1  | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.780 | 276  | 244395   | 3.774  | ng/u1  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.821 | 278  | 81752    | 1.596  | ng/u1  | 93       |
| -----                         |        |      |          |        |        |          |

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

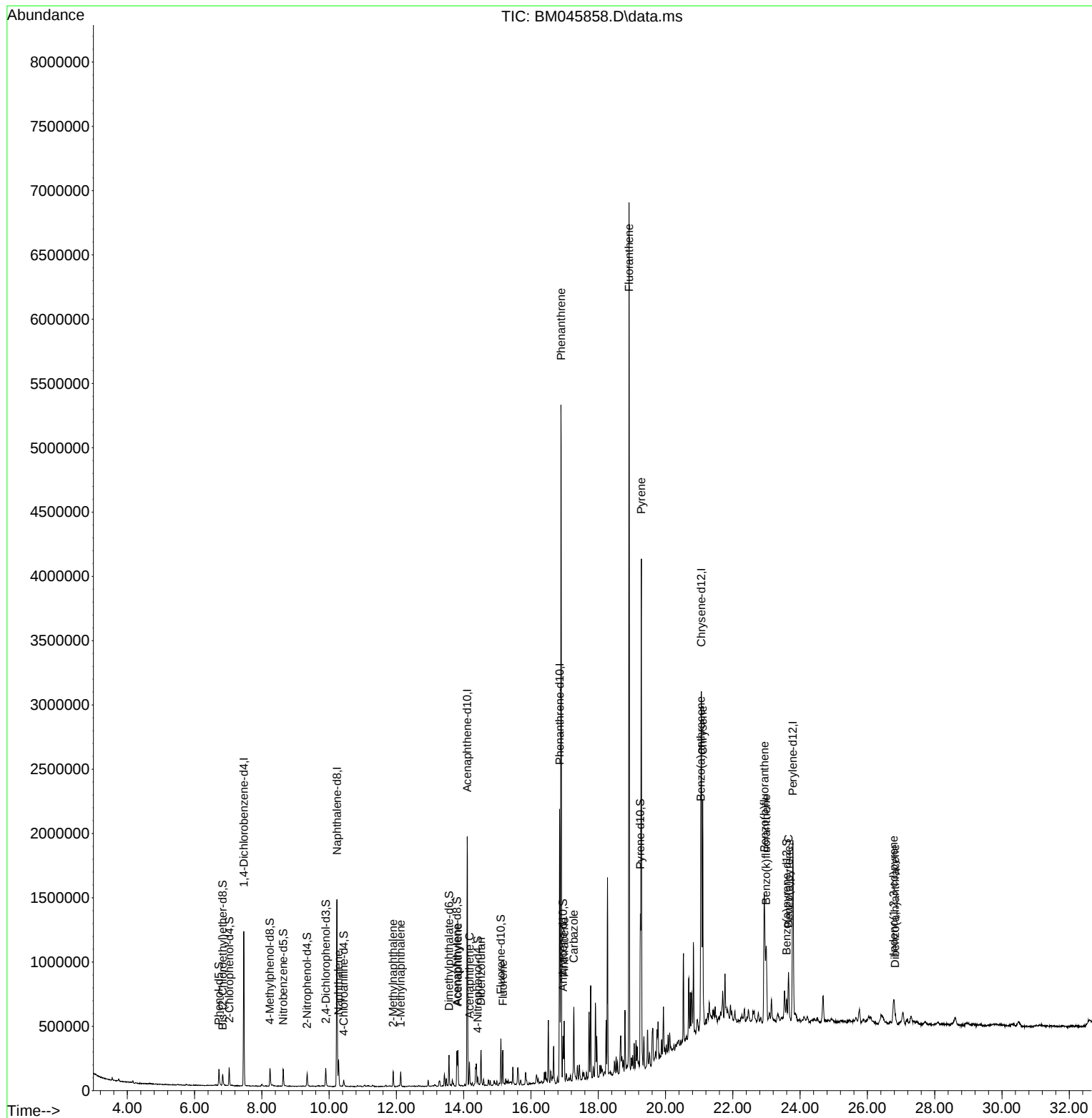
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
Data File : BM045858.D  
Acq On : 05 Jun 2024 20:15  
Operator : MA/JU  
Sample : P2586-02DL 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

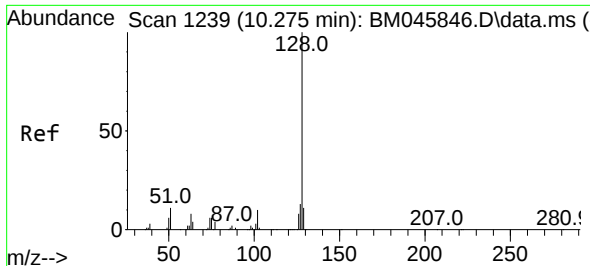
Instrument :  
BNA\_M  
ClientSampleId :  
A4D15DL

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Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024

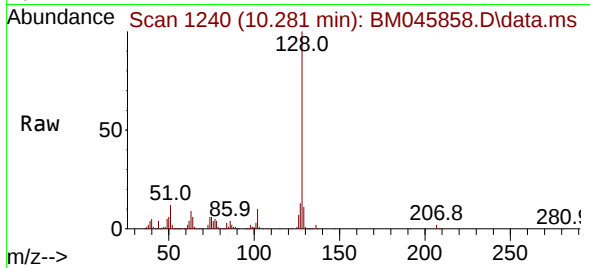
Quant Time: Jun 06 02:10:51 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 31 13:01:11 2024  
Response via : Initial Calibration





#30  
Naphthalene  
Concen: 2.558 ng/ul  
RT: 10.281 min Scan# 1239  
Delta R.T. -0.006 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15

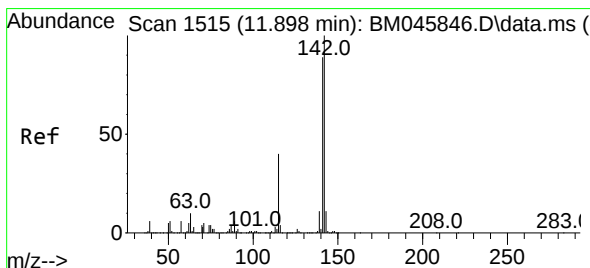
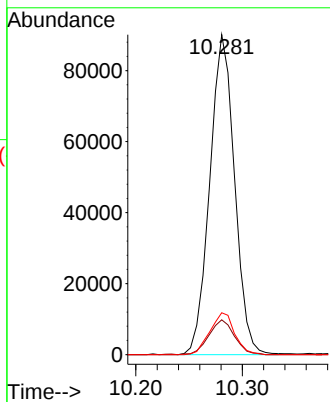
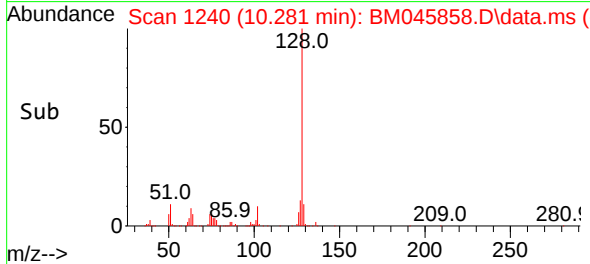
Instrument :  
BNA\_M  
ClientSampleId :  
A4D15DL



Tgt Ion:128 Resp: 145900  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.3 12.5  
127 13.1 10.3 15.5

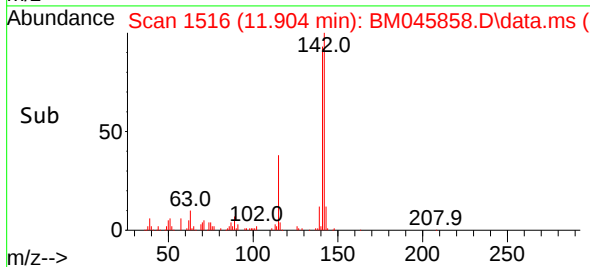
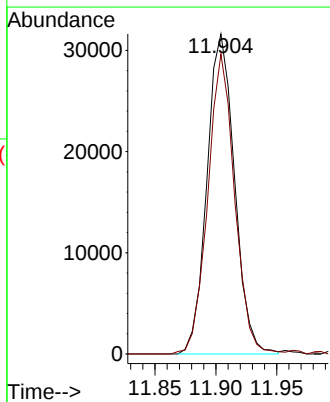
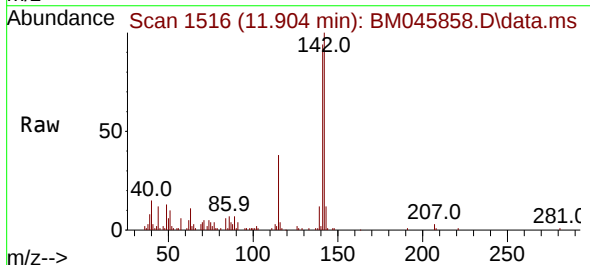
Manual Integrations  
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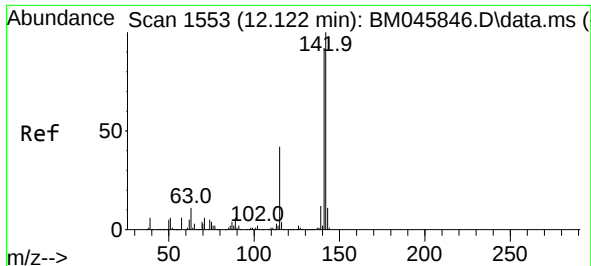
Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#36  
2-Methylnaphthalene  
Concen: 1.319 ng/ul  
RT: 11.904 min Scan# 1516  
Delta R.T. 0.000 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15

Tgt Ion:142 Resp: 49823  
Ion Ratio Lower Upper  
142 100  
141 93.7 71.1 106.7





#37

1-Methylnaphthalene

Concen: 1.205 ng/ul

RT: 12.128 min Scan# 1553

Delta R.T. 0.000 min

Lab File: BM045858.D

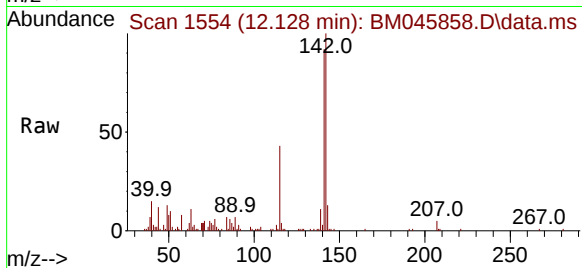
Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

A4D15DL

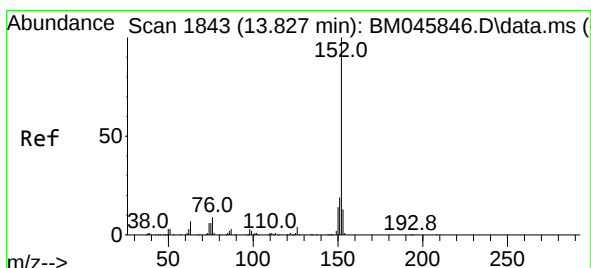
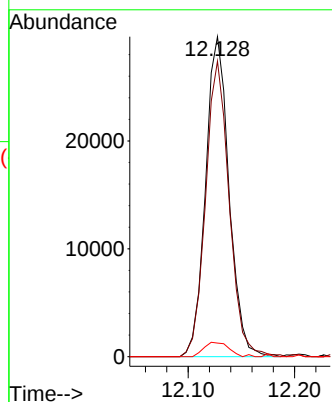
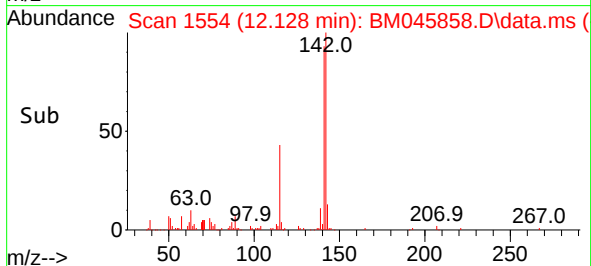


|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 45508 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 92.4  | 73.5  | 110.3 |
| 116       | 4.2   | 3.3   | 4.9   |

Manual Integrations

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Supervised By :mohammad ahmed 06/07/2024



#50

Acenaphthylene

Concen: 2.915 ng/ul

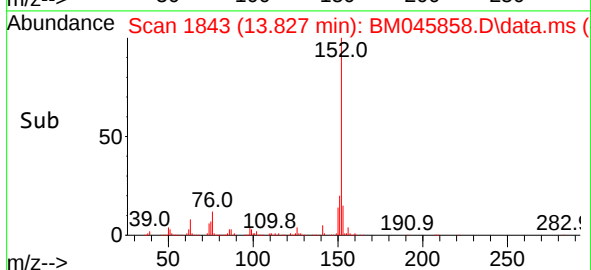
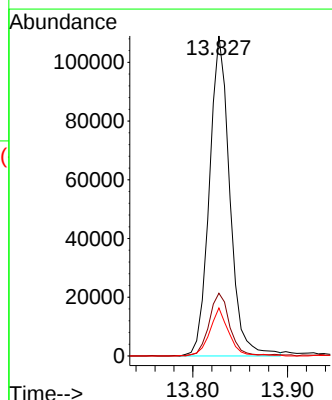
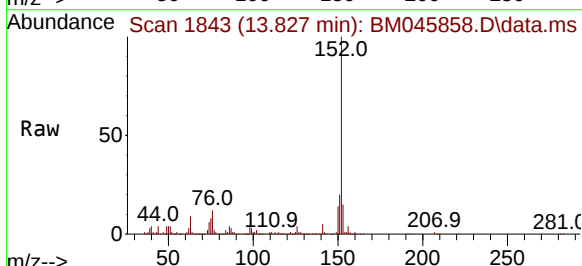
RT: 13.827 min Scan# 1843

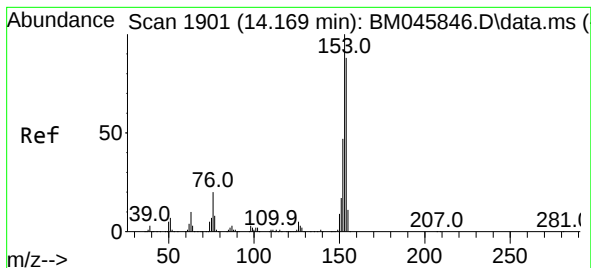
Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

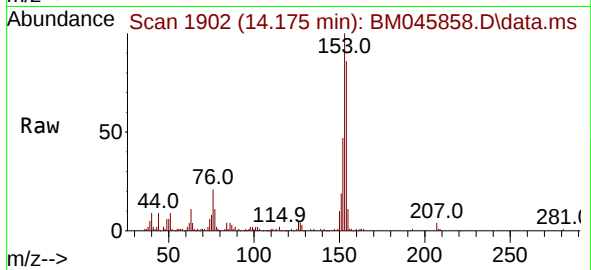
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 163363 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.6  | 15.6  | 23.4   |
| 153       | 15.0  | 10.4  | 15.6   |





#52  
Acenaphthene  
Concen: 1.799 ng/ul  
RT: 14.175 min Scan# 1901  
Delta R.T. 0.000 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15

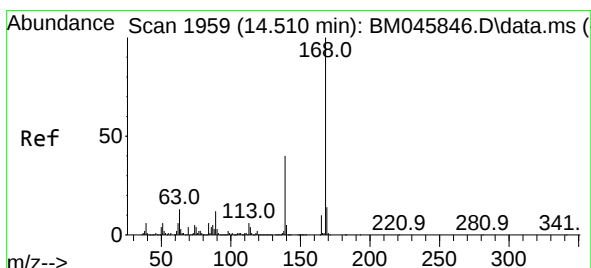
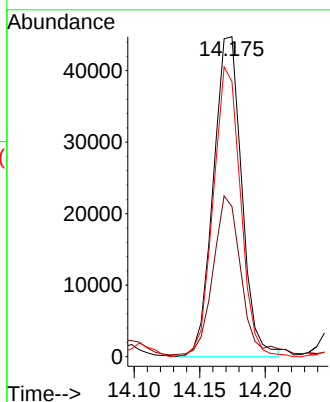
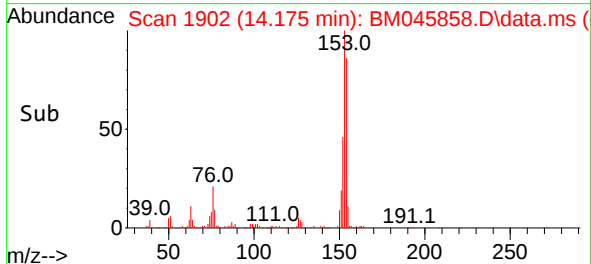
Instrument :  
BNA\_M  
ClientSampleId :  
A4D15DL



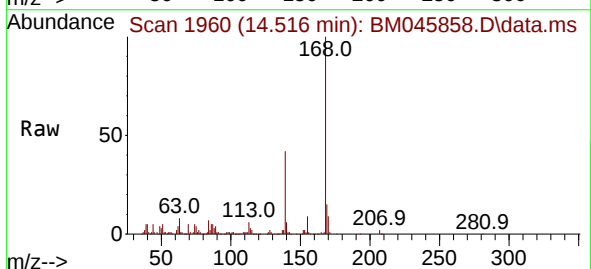
Tgt Ion:153 Resp: 67270  
Ion Ratio Lower Upper  
153 100  
152 46.9 38.6 58.0  
154 86.0 70.7 106.1

Manual Integrations  
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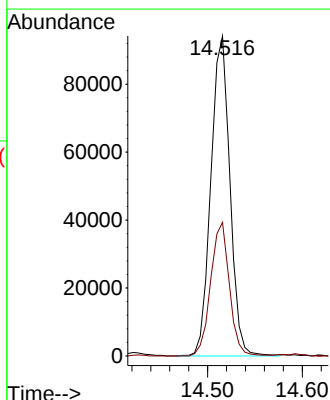
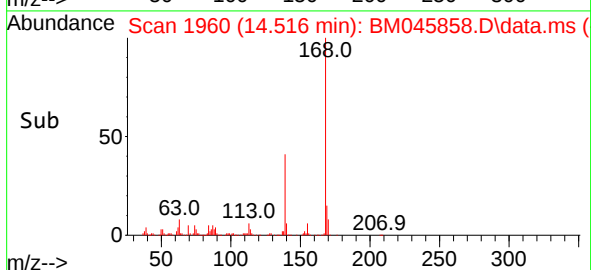
Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024

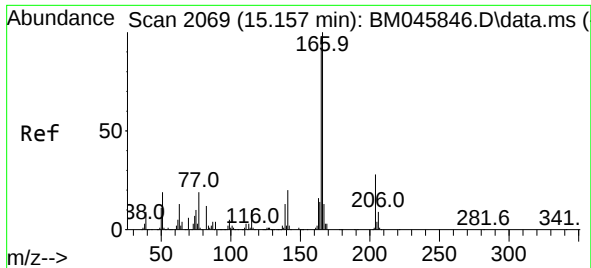


#56  
Dibenzofuran  
Concen: 2.604 ng/ul  
RT: 14.516 min Scan# 1960  
Delta R.T. 0.000 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15



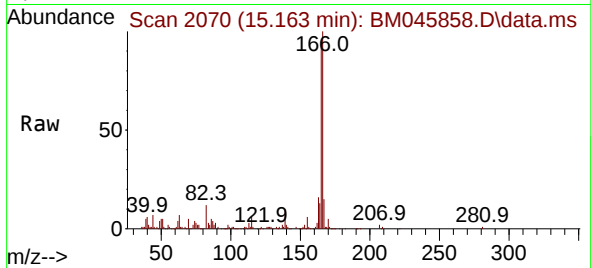
Tgt Ion:168 Resp: 131338  
Ion Ratio Lower Upper  
168 100  
139 41.8 32.2 48.2





#61  
Fluorene  
Concen: 2.475 ng/ul  
RT: 15.163 min Scan# 2069  
Delta R.T. 0.000 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15

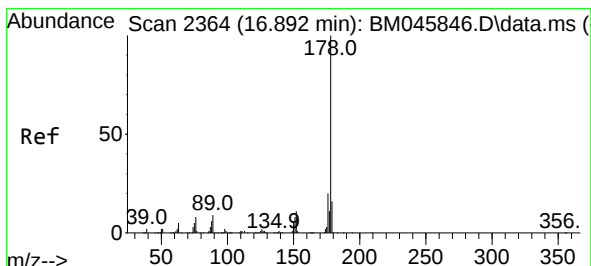
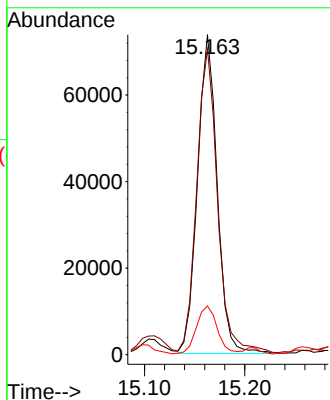
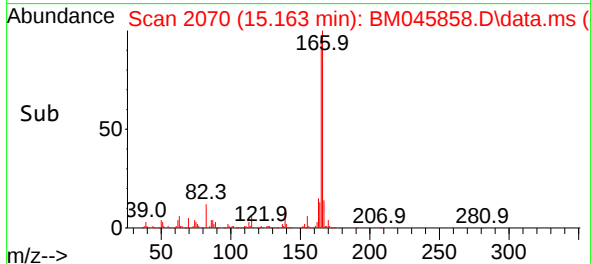
Instrument :  
BNA\_M  
ClientSampleId :  
A4D15DL



Tgt Ion:166 Resp: 100591  
Ion Ratio Lower Upper  
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165 95.4 78.1 117.1  
167 15.2 10.6 16.0

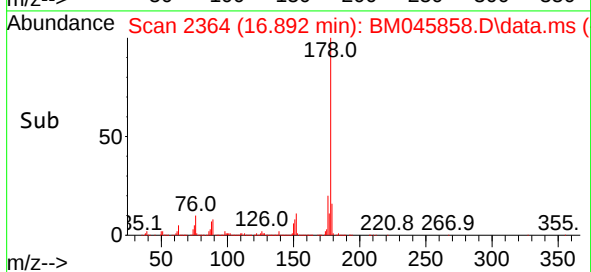
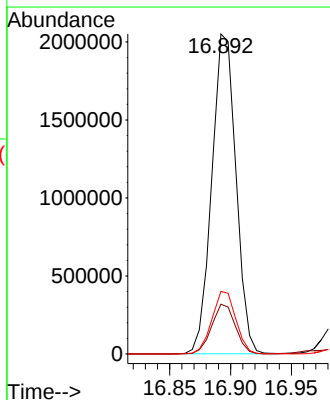
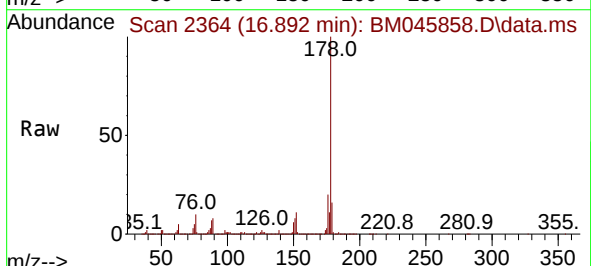
Manual Integrations  
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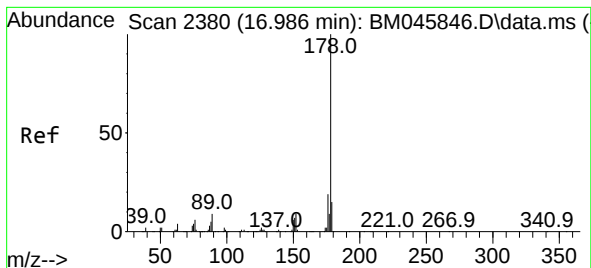
Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#72  
Phenanthrene  
Concen: 48.420 ng/ul  
RT: 16.892 min Scan# 2364  
Delta R.T. -0.006 min  
Lab File: BM045858.D  
Acq: 05 Jun 2024 20:15

Tgt Ion:178 Resp: 2832855  
Ion Ratio Lower Upper  
178 100  
179 15.6 12.4 18.6  
176 19.6 15.3 22.9





#74

Anthracene

Concen: 4.526 ng/ul

RT: 16.986 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

A4D15DL

Tgt Ion:178 Resp: 264498

Ion Ratio Lower Upper

178 100

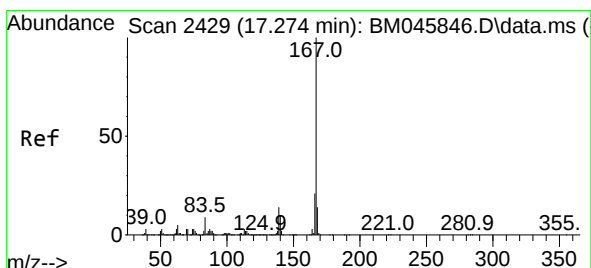
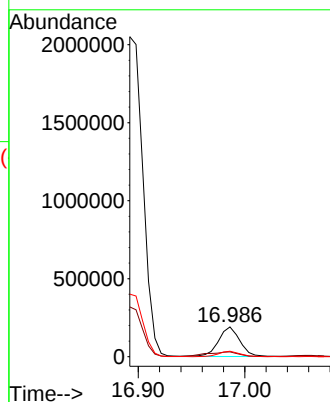
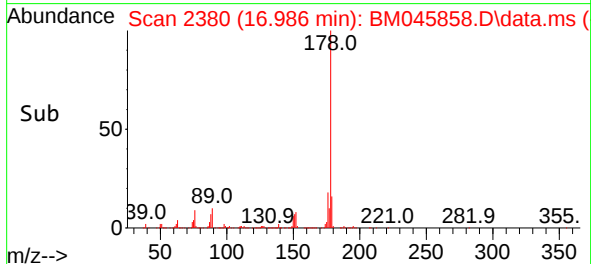
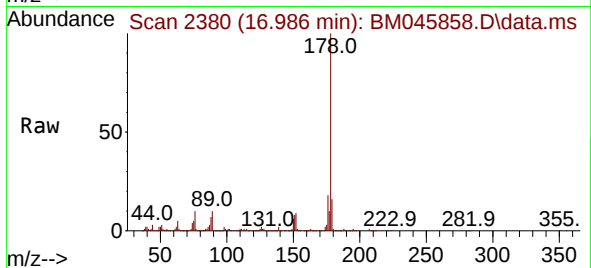
179 16.4 12.0 18.0

176 18.1 15.0 22.6

Manual Integrations

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#77

Carbazole

Concen: 6.257 ng/ul

RT: 17.274 min Scan# 2429

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

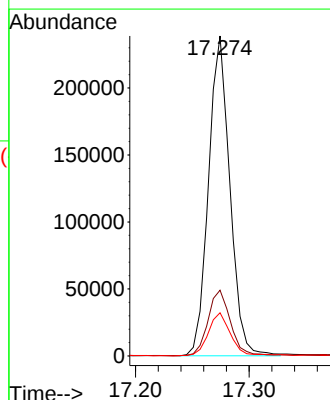
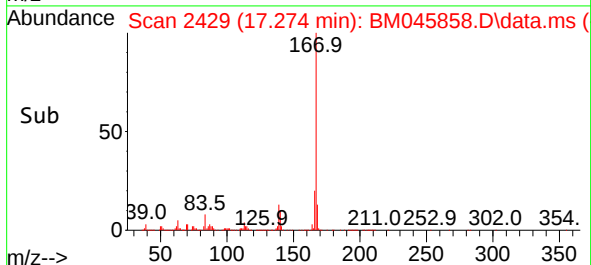
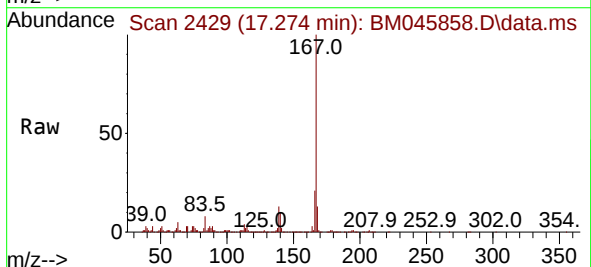
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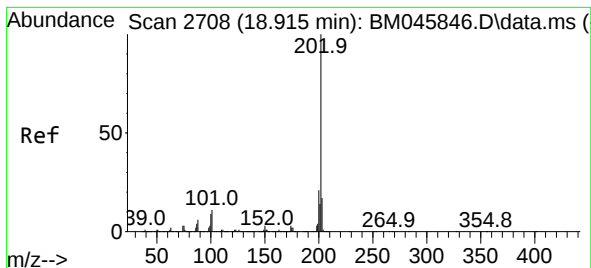
Ion Ratio Lower Upper

167 100

166 20.6 16.6 24.8

139 13.5 10.6 16.0





#80

Fluoranthene

Concen: 49.976 ng/ul

RT: 18.915 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

A4D15DL

Tgt Ion:202 Resp: 361562

Ion Ratio Lower Upper

202 100

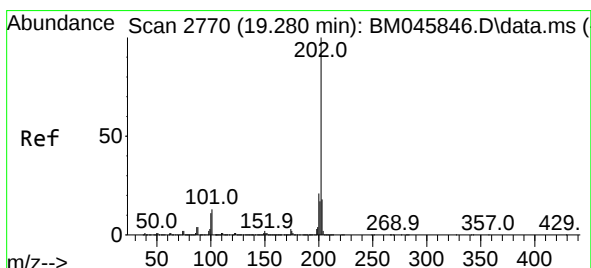
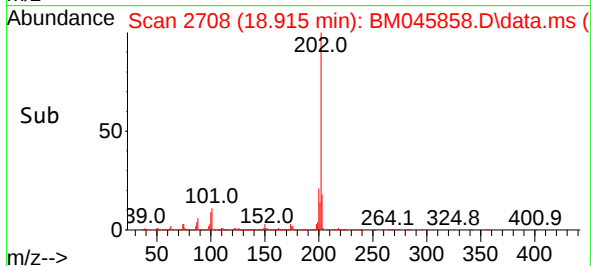
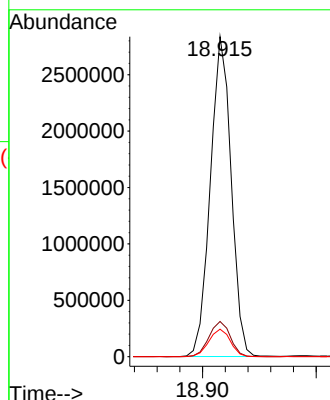
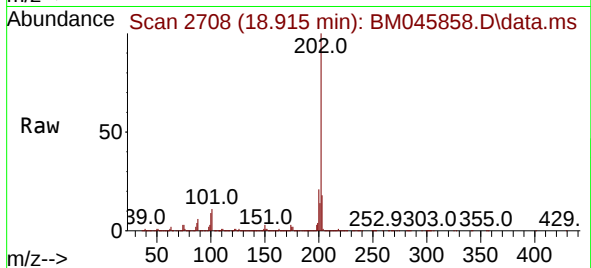
101 11.0 8.9 13.3

100 8.6 6.6 10.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#82

Pyrene

Concen: 29.433 ng/ul

RT: 19.280 min Scan# 2770

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

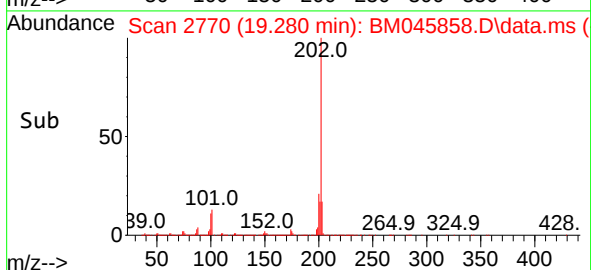
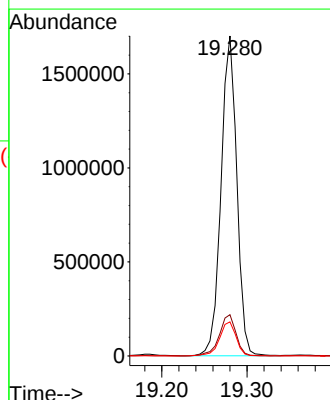
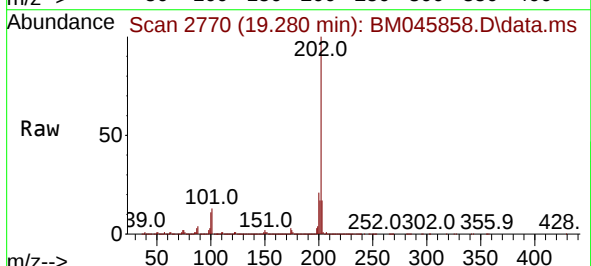
Tgt Ion:202 Resp: 2187812

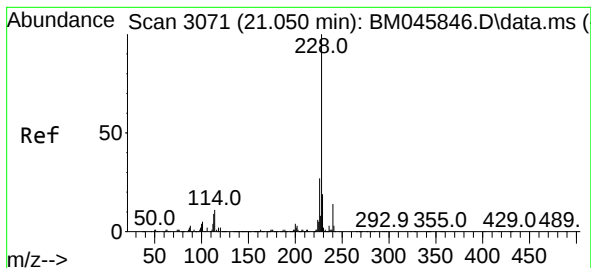
Ion Ratio Lower Upper

202 100

101 12.9 10.5 15.7

100 10.7 8.6 12.8





#85

Benzo(a)anthracene

Concen: 10.150 ng/ul

RT: 21.045 min Scan# 3071

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

A4D15DL

Tgt Ion:228 Resp: 67256

Ion Ratio Lower Upper

228 100

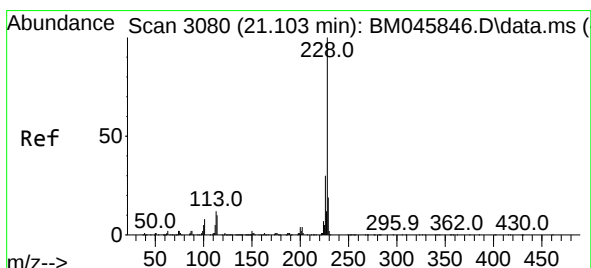
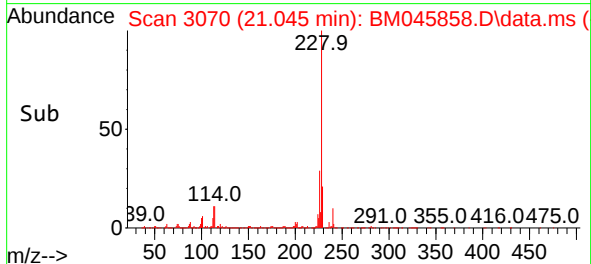
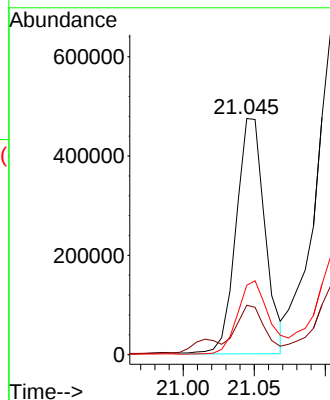
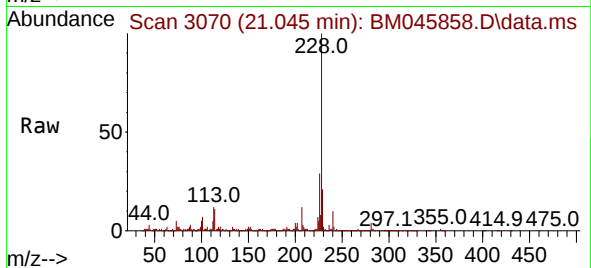
229 21.0 15.8 23.8

226 29.4 21.4 32.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#87

Chrysene

Concen: 15.622 ng/ul

RT: 21.103 min Scan# 3080

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

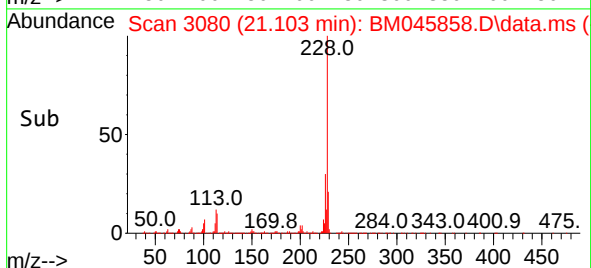
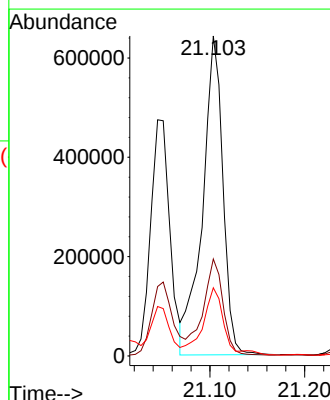
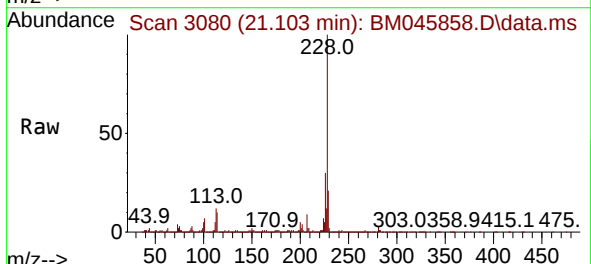
Tgt Ion:228 Resp: 957587

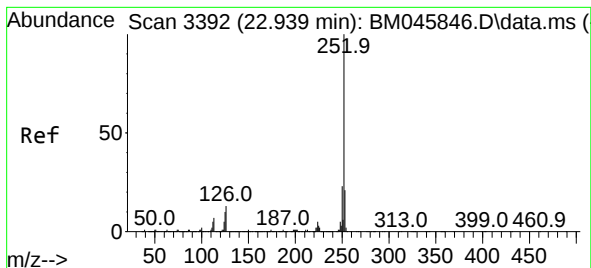
Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.2

229 21.3 15.2 22.8





#90

Benzo(b)fluoranthene

Concen: 13.527 ng/ul

RT: 22.939 min Scan# 31

Delta R.T. 0.000 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

A4D15DL

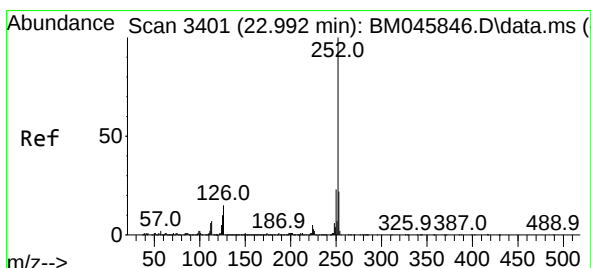
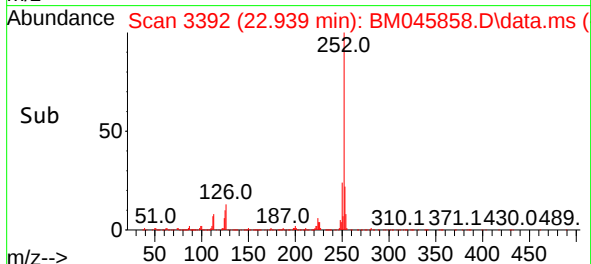
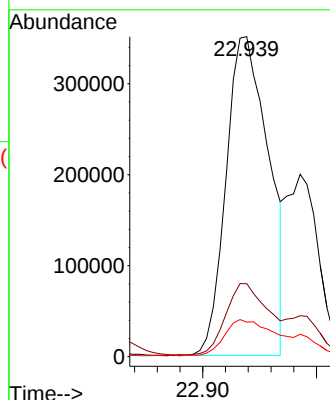
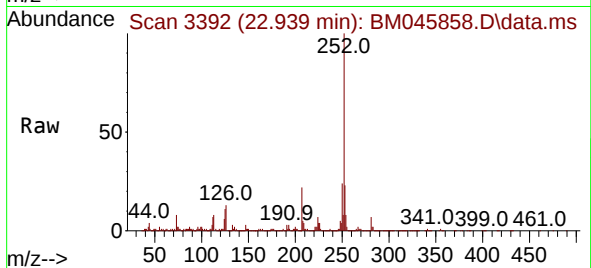
Tgt Ion:252 Resp: 912810

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.8  | 17.8  | 26.6  |
| 125 | 10.8  | 8.4   | 12.6  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#91

Benzo(k)fluoranthene

Concen: 5.837 ng/ul m

RT: 22.986 min Scan# 3400

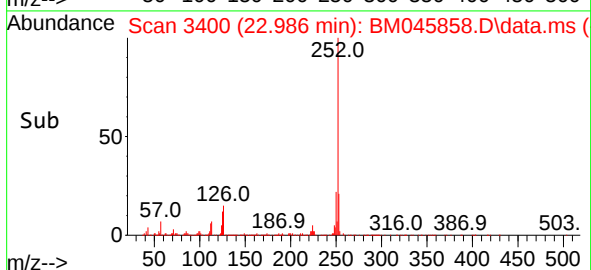
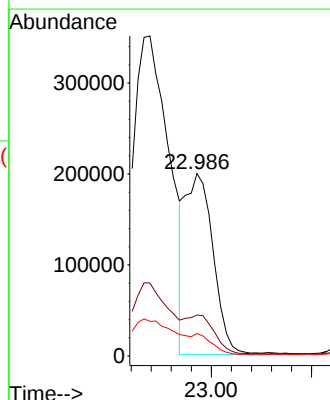
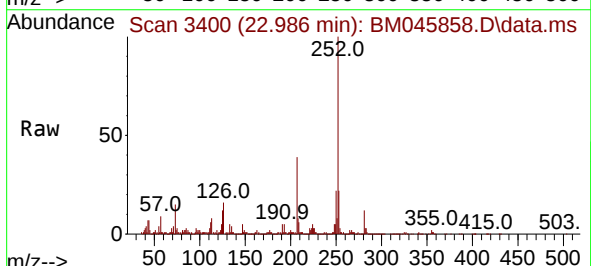
Delta R.T. -0.012 min

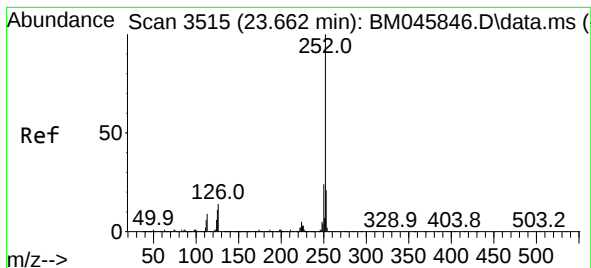
Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Tgt Ion:252 Resp: 384739

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.4  | 16.8  | 25.2  |
| 125 | 12.3  | 8.2   | 12.4  |





#93

Benzo(a)pyrene

Concen: 4.923 ng/ul

RT: 23.656 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

Instrument :

BNA\_M

ClientSampleId :

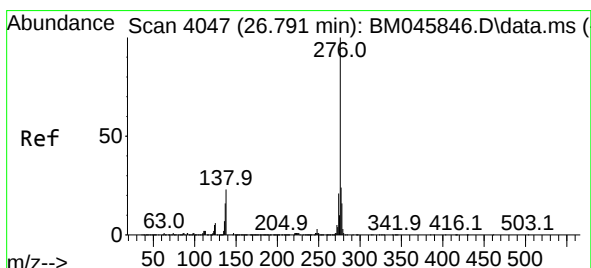
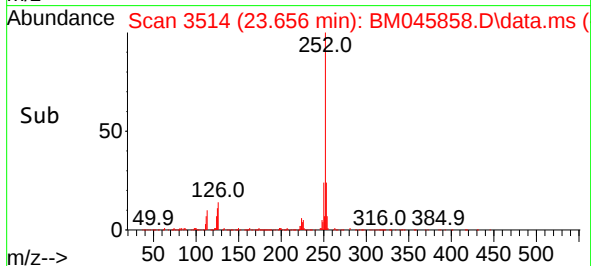
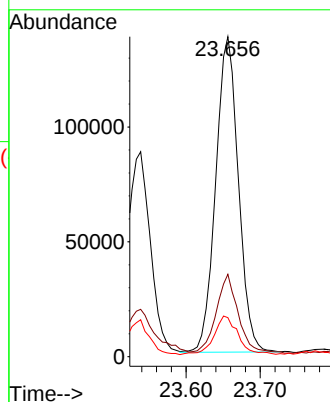
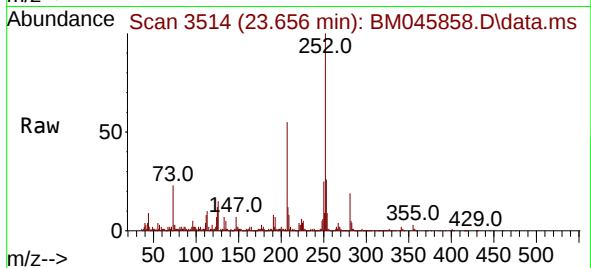
A4D15DL

Tgt Ion:252 Resp: 291949  
 Ion Ratio Lower Upper  
 252 100  
 253 25.8 17.5 26.3  
 125 12.2 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.774 ng/ul

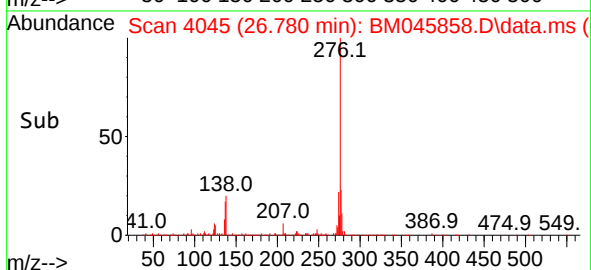
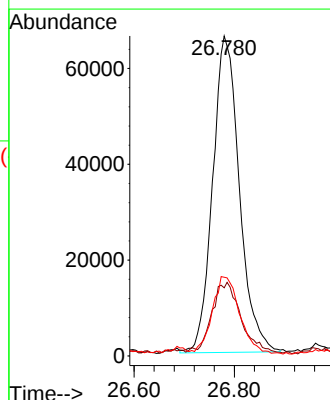
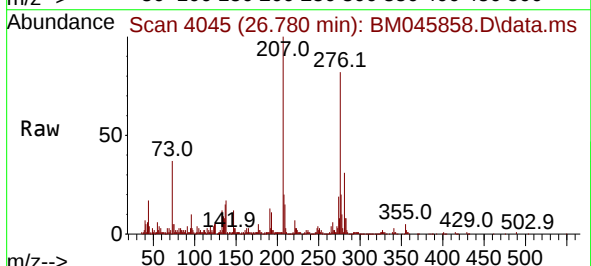
RT: 26.780 min Scan# 4045

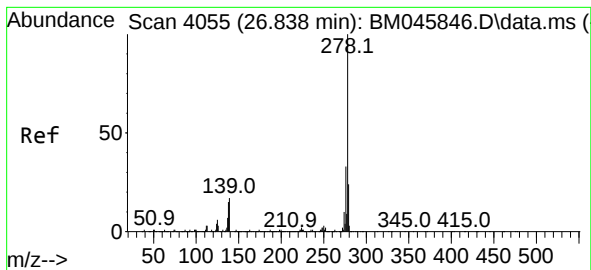
Delta R.T. -0.012 min

Lab File: BM045858.D

Acq: 05 Jun 2024 20:15

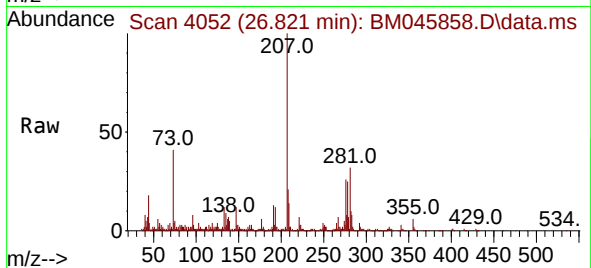
Tgt Ion:276 Resp: 244395  
 Ion Ratio Lower Upper  
 276 100  
 138 21.3 17.9 26.9  
 277 24.6 19.0 28.6





#95  
 Dibenzo(a,h)anthracene  
 Concen: 1.596 ng/ul  
 RT: 26.821 min Scan# 4052  
 Delta R.T. -0.018 min  
 Lab File: BM045858.D  
 Acq: 05 Jun 2024 20:15

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D15DL



Tgt Ion:278 Resp: 81752  
 Ion Ratio Lower Upper  
 278 100  
 139 19.3 13.2 19.8  
 279 27.5 19.1 28.7

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024

