

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM051122\  
 Data File : BM035015.D  
 Acq On : 12 May 2022 09:44  
 Operator : CG/JU  
 Sample : N2603-23DL 2X  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW4A2DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 05/16/2022  
 Supervised By :Yogesh Patel 05/17/2022

Quant Time: May 13 04:38:32 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM051022.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 10 16:40:09 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.916  | 152  | 165919   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.722 | 136  | 764904   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.551 | 164  | 524893   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.292 | 188  | 1123445  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.468 | 240  | 908234   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.850 | 264  | 809000   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.363  | 96   | 10081m   | 2.542  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.781  | 84   | 62166    | 5.687  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.081  | 99   | 190610   | 13.280 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.246  | 67   | 128548   | 14.268 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.446  | 132  | 165077   | 14.635 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.622  | 113  | 114779   | 9.808  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.075  | 128  | 88974    | 15.177 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.798  | 143  | 93599    | 14.802 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.339 | 165  | 162196   | 13.706 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.851 | 131  | 141968   | 8.426  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.957 | 166  | 641187   | 16.197 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.239 | 160  | 751102   | 14.953 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.733 | 143  | 74090m   | 10.954 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.539 | 176  | 577970   | 17.306 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.657 | 200  | 63089    | 8.912  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.392 | 188  | 891334   | 16.307 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.680 | 212  | 1048556  | 18.489 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.697 | 264  | 750133   | 17.742 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.769 | 128  | 115547   | 2.875  | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.381 | 142  | 48539    | 1.747  | ng/u1  | 99       |
| 37) 1-Methylnaphthalene       | 12.598 | 142  | 32041    | 1.140  | ng/u1  | 94       |
| 50) Acenaphthylene            | 14.275 | 152  | 60905    | 1.207  | ng/u1# | 97       |
| 52) Acenaphthene              | 14.616 | 153  | 54685    | 1.621  | ng/u1  | 100      |
| 56) Dibenzofuran              | 14.945 | 168  | 217165   | 4.675  | ng/u1  | 94       |
| 61) Fluorene                  | 15.592 | 166  | 327818   | 8.627  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.333 | 178  | 2554489  | 40.425 | ng/u1  | 99       |
| 74) Anthracene                | 17.421 | 178  | 573462   | 8.973  | ng/u1  | 99       |
| 77) Carbazole                 | 17.692 | 167  | 138691   | 2.468  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.345 | 202  | 3197708  | 46.903 | ng/u1  | 98       |
| 82) Pyrene                    | 19.709 | 202  | 2429977  | 34.903 | ng/u1  | 100      |
| 85) Benzo(a)anthracene        | 21.451 | 228  | 1186858  | 20.113 | ng/u1  | 98       |
| 87) Chrysene                  | 21.503 | 228  | 1044765  | 18.181 | ng/u1  | 98       |
| 90) Benzo(b)fluoranthene      | 23.133 | 252  | 1245407  | 22.918 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.174 | 252  | 382038m  | 7.383  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.744 | 252  | 902494   | 17.421 | ng/u1# | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.315 | 276  | 583808   | 9.851  | ng/u1  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.321 | 278  | 143832   | 2.831  | ng/u1# | 86       |
| 96) Benzo(g,h,i)perylene      | 27.074 | 276  | 458334   | 9.311  | ng/u1# | 94       |
| -----                         |        |      |          |        |        |          |

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

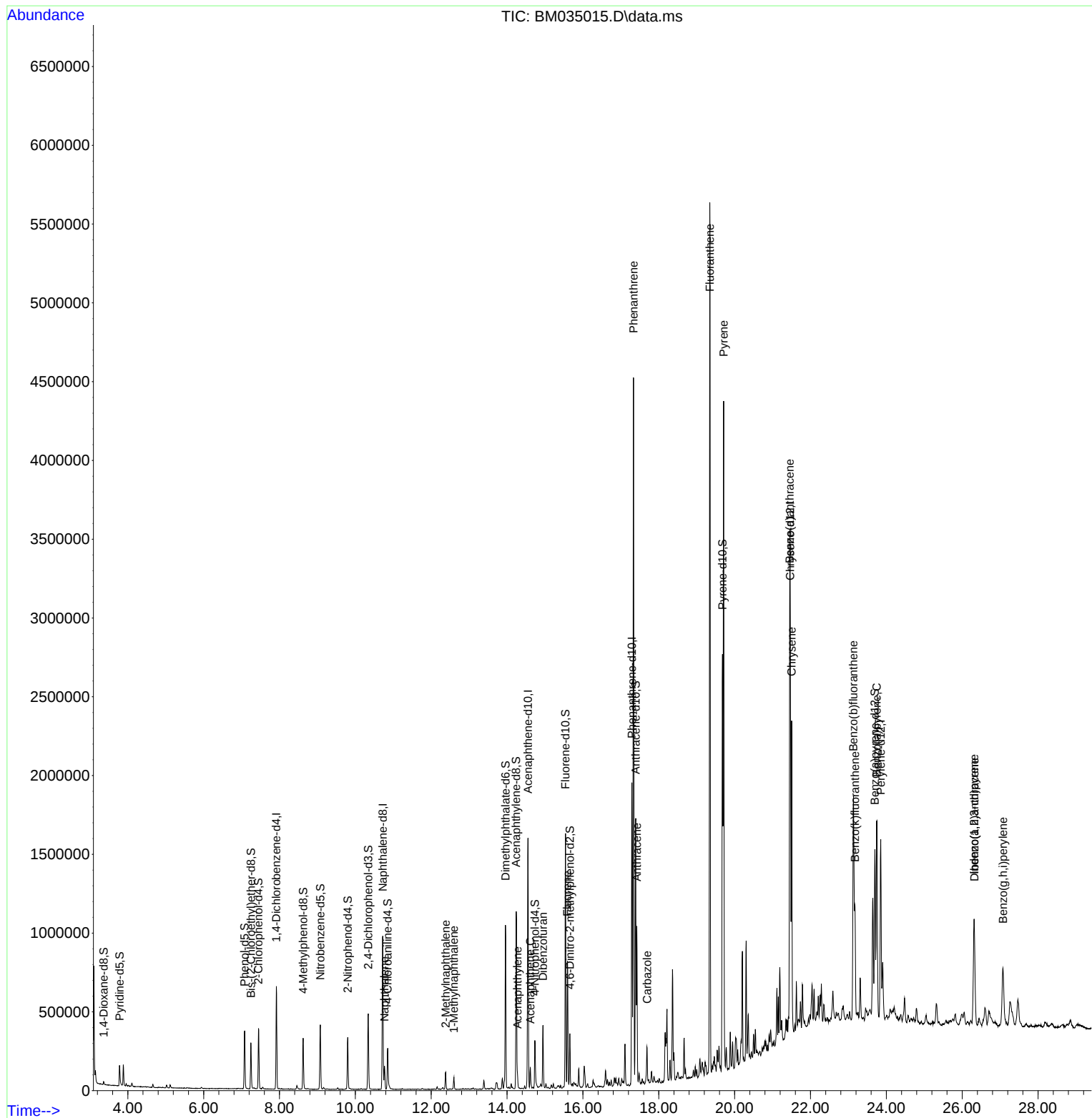
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Data File : BM035015.D  
Acq On : 12 May 2022 09:44  
Operator : CG/JU  
Sample : N2603-23DL 2X  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

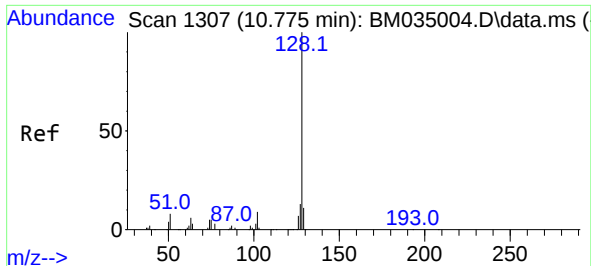
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022

Quant Time: May 13 04:38:32 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM051022.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 10 16:40:09 2022  
Response via : Initial Calibration





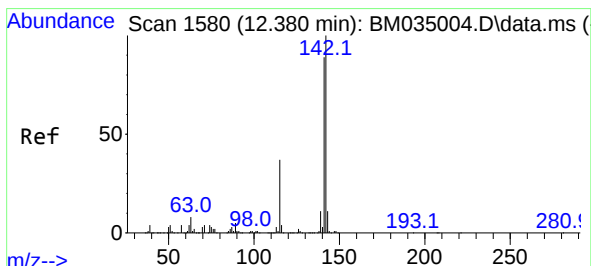
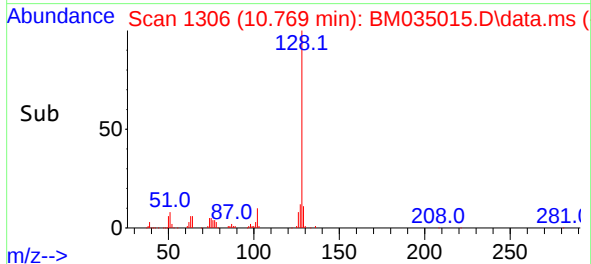
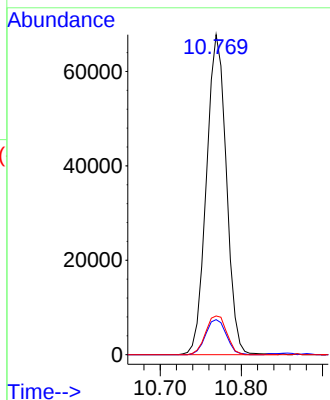
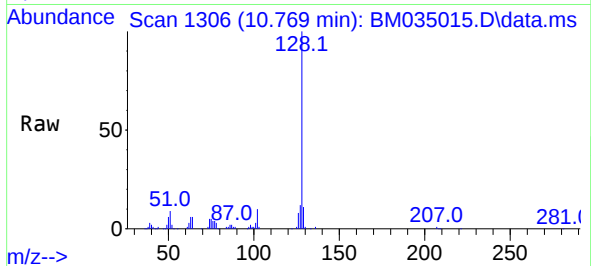
#30  
Naphthalene  
Concen: 2.875 ng/ul  
RT: 10.769 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL

Tgt Ion:128 Resp: 11554  
Ion Ratio Lower Upper  
128 100  
129 11.0 9.1 13.7  
127 12.1 10.6 16.0

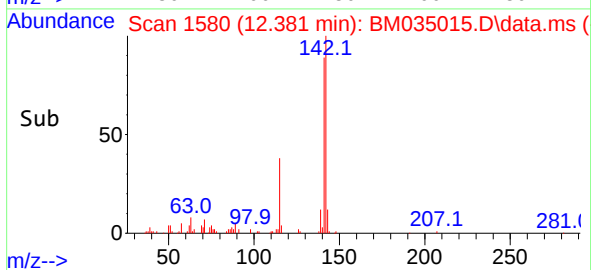
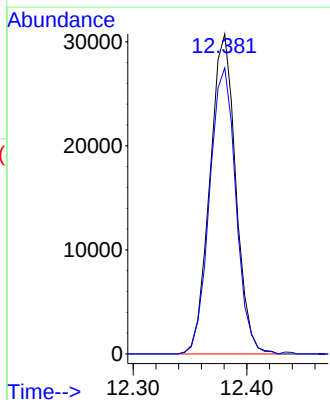
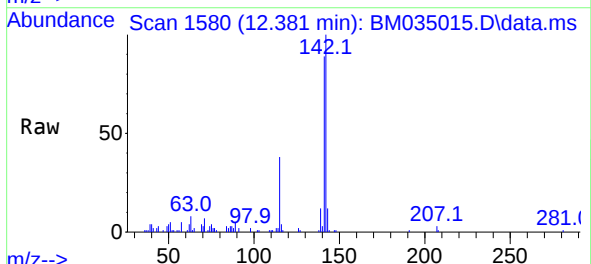
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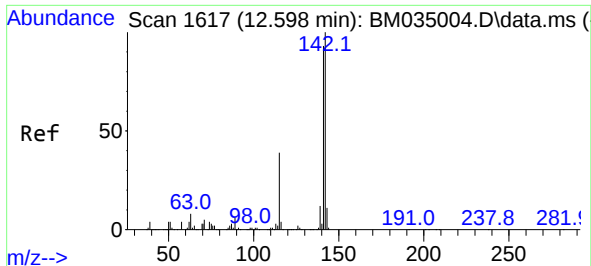
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#36  
2-Methylnaphthalene  
Concen: 1.747 ng/ul  
RT: 12.381 min Scan# 1580  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

Tgt Ion:142 Resp: 48539  
Ion Ratio Lower Upper  
142 100  
141 89.4 72.2 108.2





#37

1-Methylnaphthalene

Concen: 1.140 ng/ul

RT: 12.598 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM035015.D

Acq: 12 May 2022 09:44

Instrument :

BNA\_M

ClientSampleId :

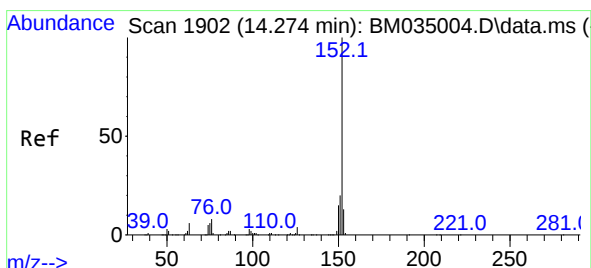
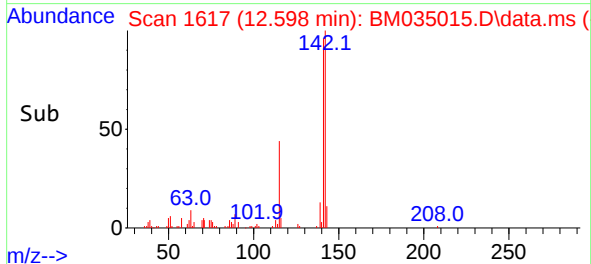
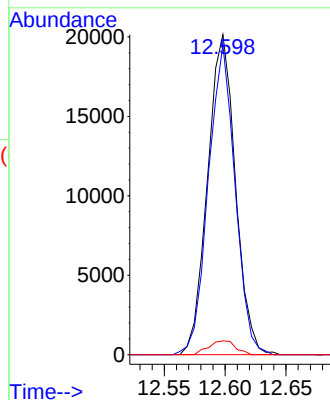
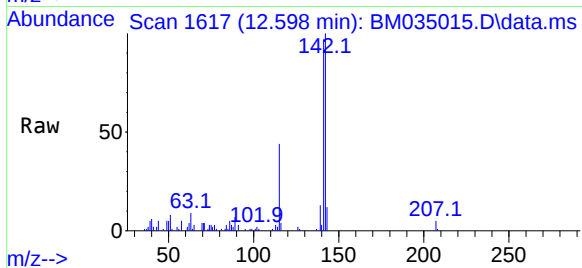
EW4A2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 3204  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 96.9  | 73.0  | 109.4 |
| 116       | 4.3   | 3.2   | 4.8   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#50

Acenaphthylene

Concen: 1.207 ng/ul

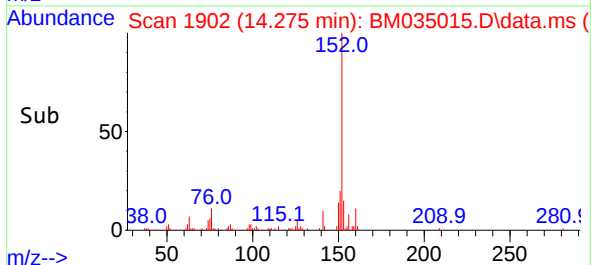
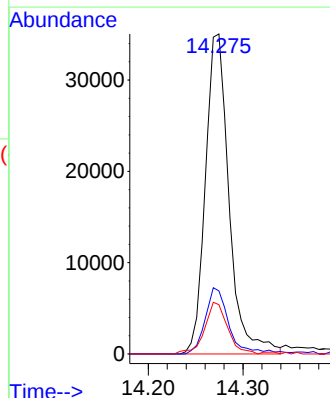
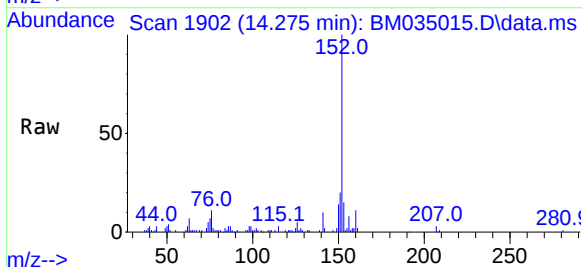
RT: 14.275 min Scan# 1902

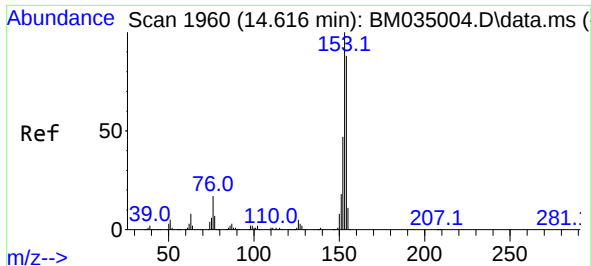
Delta R.T. 0.000 min

Lab File: BM035015.D

Acq: 12 May 2022 09:44

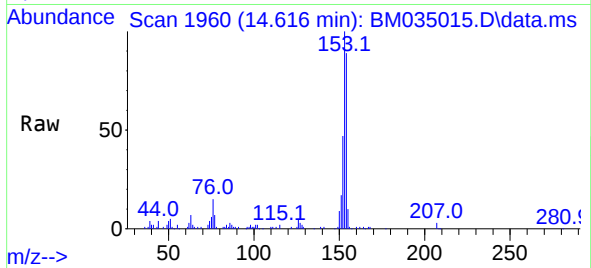
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 60905 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 15.3  | 22.9  |
| 153       | 15.4  | 10.2  | 15.4  |





#52  
Acenaphthene  
Concen: 1.621 ng/u1  
RT: 14.616 min Scan# 1960  
Delta R.T. 0.000 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

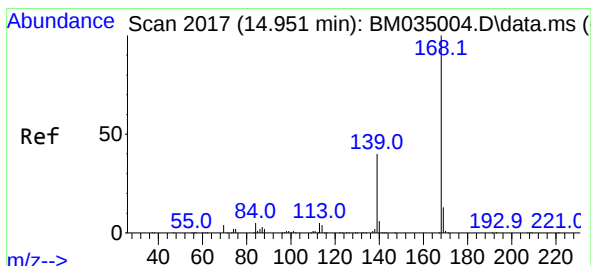
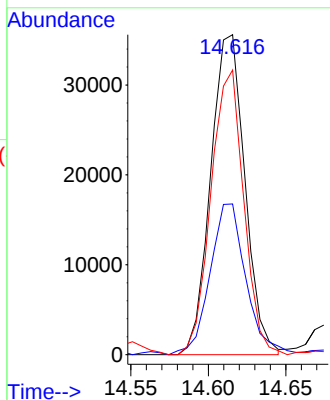
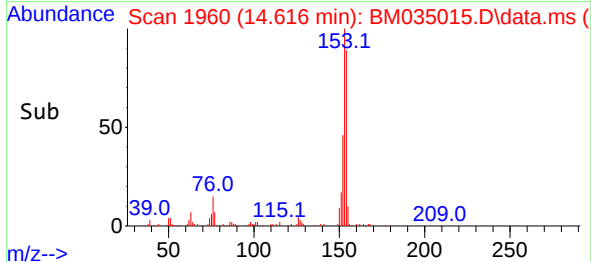
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



Tgt Ion:153 Resp: 54685  
Ion Ratio Lower Upper  
153 100  
152 47.1 37.5 56.3  
154 88.9 71.0 106.4

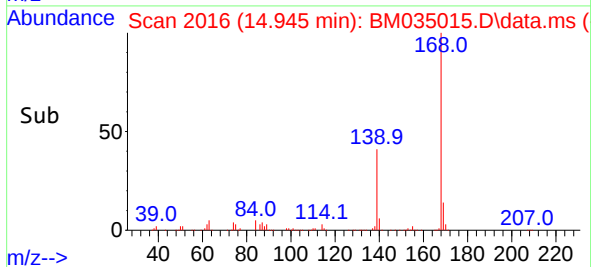
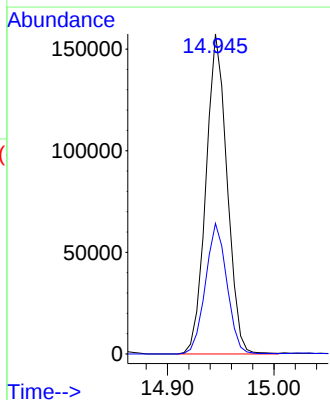
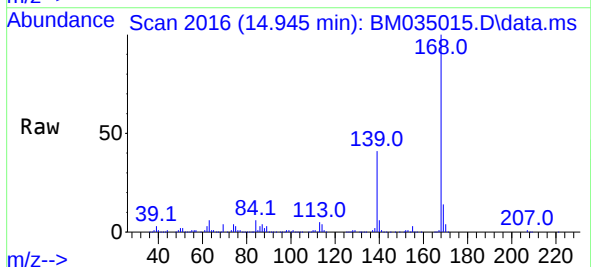
Manual Integrations  
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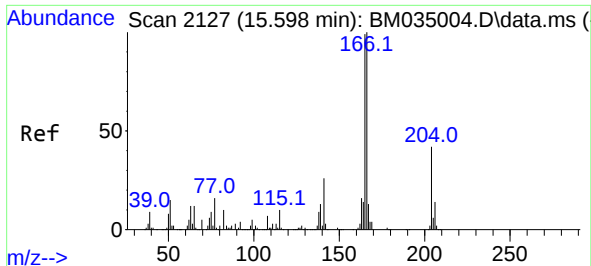
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#56  
Dibenzofuran  
Concen: 4.675 ng/u1  
RT: 14.945 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

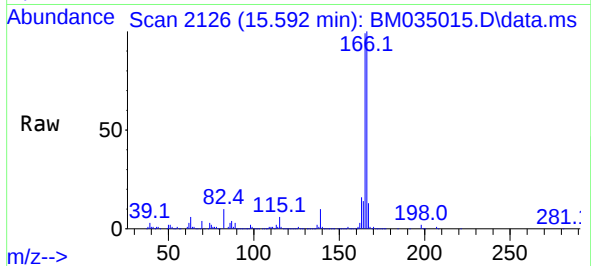
Tgt Ion:168 Resp: 217165  
Ion Ratio Lower Upper  
168 100  
139 40.8 30.0 45.0





#61  
Fluorene  
Concen: 8.627 ng/u1  
RT: 15.592 min Scan# 2127  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

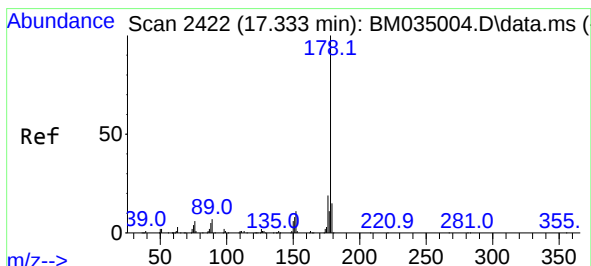
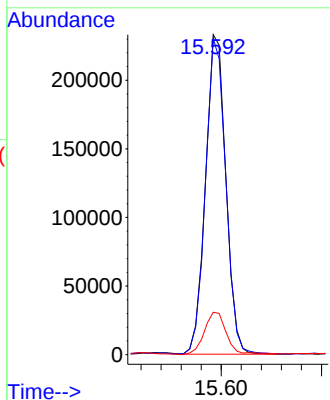
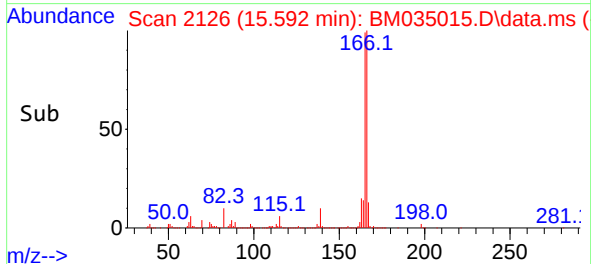
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



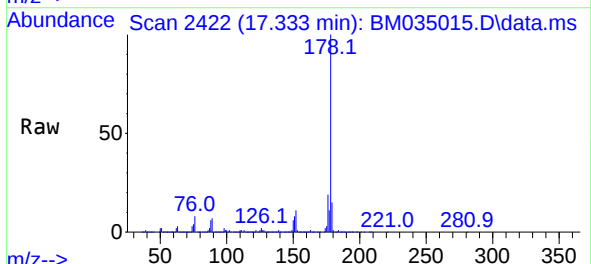
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Ion Ratio Lower Upper  
166 100  
165 98.8 77.9 116.9  
167 13.3 10.3 15.5

Manual Integrations  
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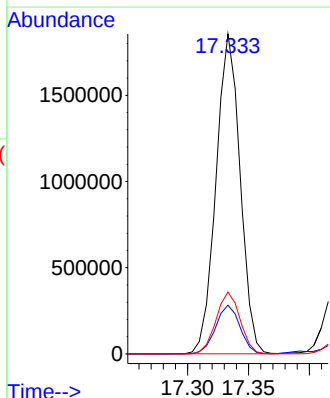
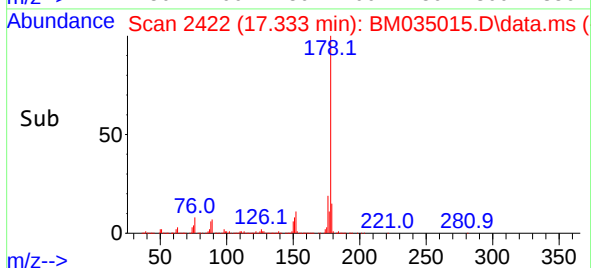
Reviewed By :Jagrut Upadhyay 05/16/2022  
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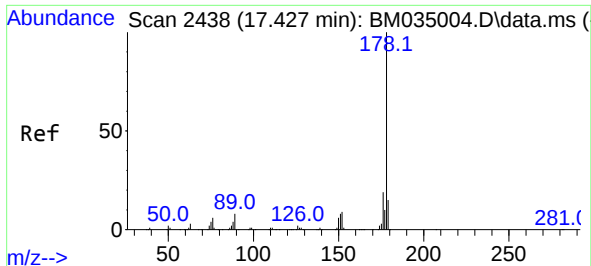


#72  
Phenanthrene  
Concen: 40.425 ng/u1  
RT: 17.333 min Scan# 2422  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44



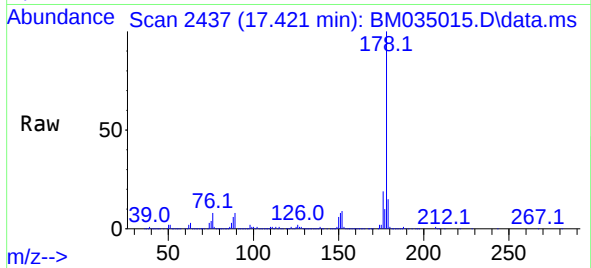
Tgt Ion:178 Resp: 2554489  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.2 18.4  
176 19.3 15.0 22.6





#74  
 Anthracene  
 Concen: 8.973 ng/u1  
 RT: 17.421 min Scan# 2438  
 Delta R.T. -0.006 min  
 Lab File: BM035015.D  
 Acq: 12 May 2022 09:44

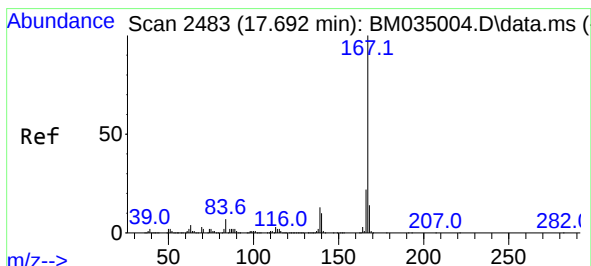
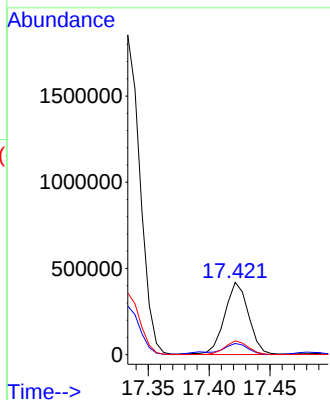
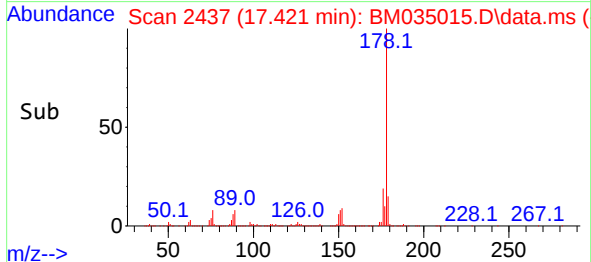
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EW4A2DL



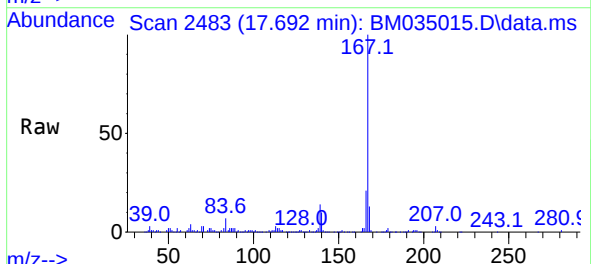
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 Ion Ratio Lower Upper  
 178 100  
 179 15.5 12.2 18.4  
 176 19.1 14.6 22.0

Manual Integrations  
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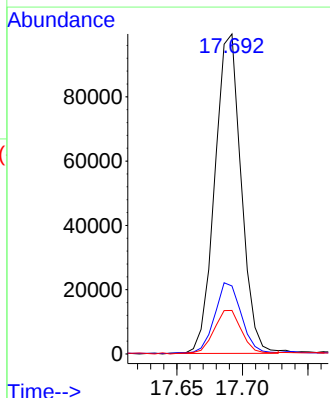
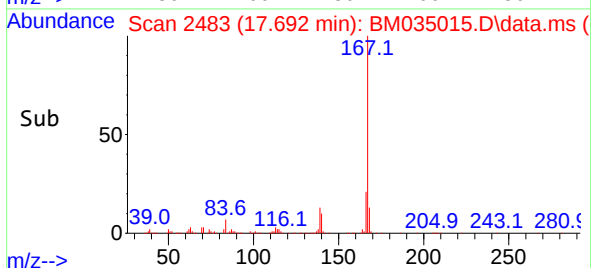
Reviewed By :Jagrut Upadhyay 05/16/2022  
 Supervised By :Yogesh Patel 05/17/2022

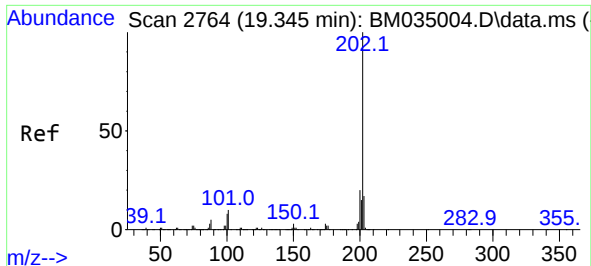


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 Carbazole  
 Concen: 2.468 ng/u1  
 RT: 17.692 min Scan# 2483  
 Delta R.T. 0.000 min  
 Lab File: BM035015.D  
 Acq: 12 May 2022 09:44



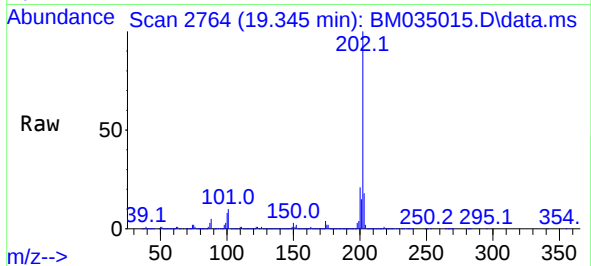
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 166 21.3 17.1 25.7  
 139 13.6 10.5 15.7





#80  
Fluoranthene  
Concen: 46.903 ng/u1  
RT: 19.345 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

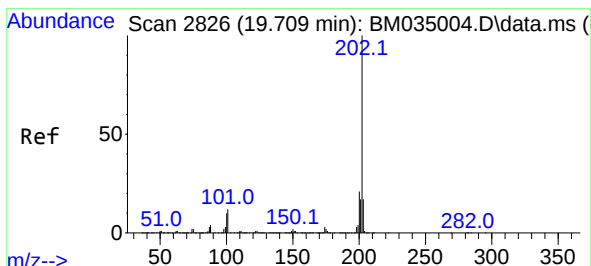
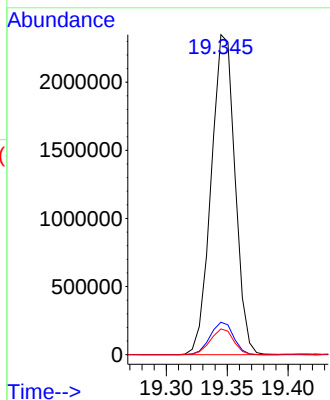
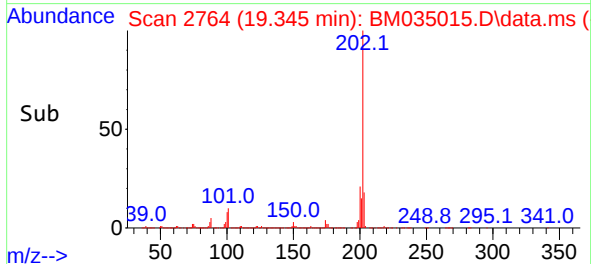
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



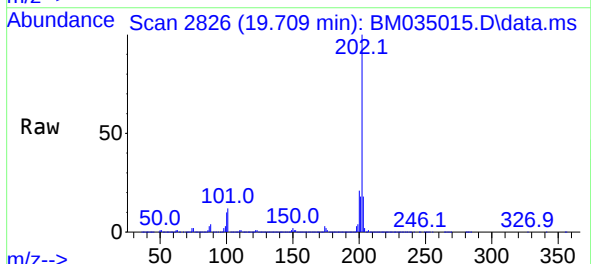
Tgt Ion:202 Resp: 3197708  
Ion Ratio Lower Upper  
202 100  
101 10.2 7.4 11.2  
100 8.1 5.8 8.6

Manual Integrations  
APPROVED

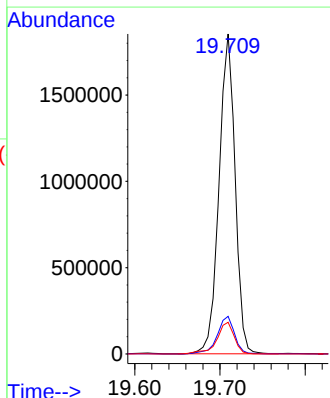
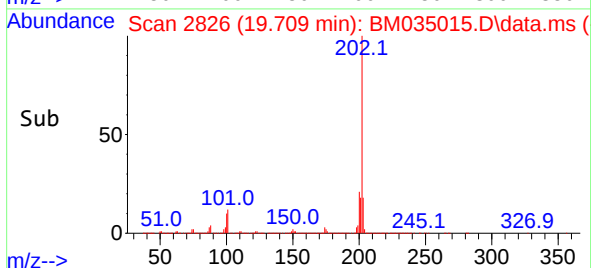
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022

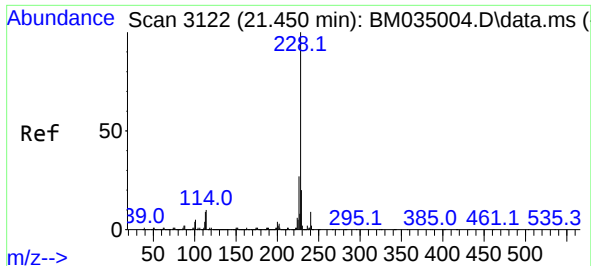


#82  
Pyrene  
Concen: 34.903 ng/u1  
RT: 19.709 min Scan# 2826  
Delta R.T. 0.000 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44



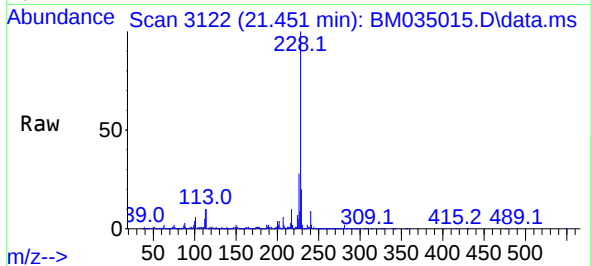
Tgt Ion:202 Resp: 2429977  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.4 14.0  
100 9.9 7.8 11.6





#85  
Benzo(a)anthracene  
Concen: 20.113 ng/u1  
RT: 21.451 min Scan# 3122  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

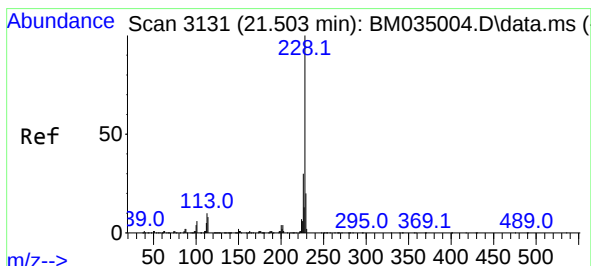
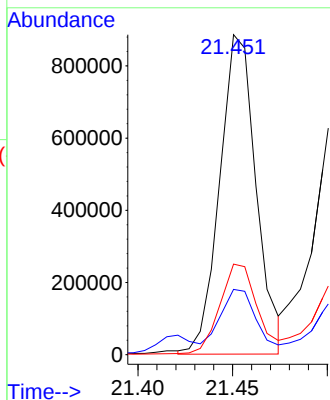
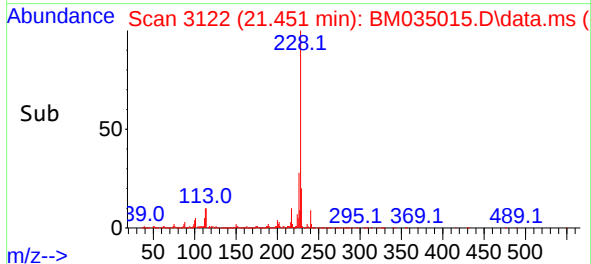
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



Tgt Ion:228 Resp: 1186858  
Ion Ratio Lower Upper  
228 100  
229 20.4 15.4 23.0  
226 28.3 21.7 32.5

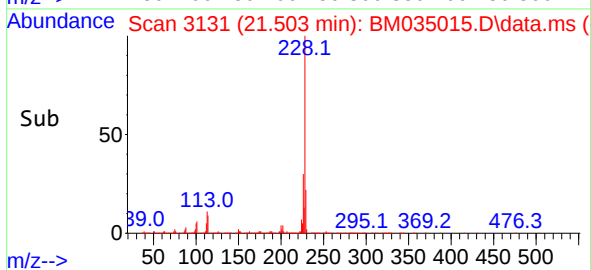
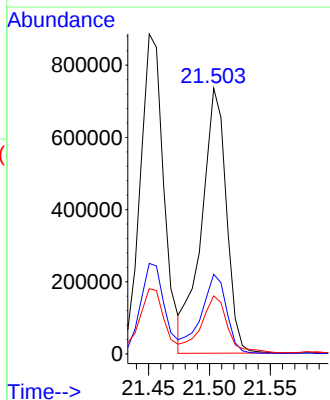
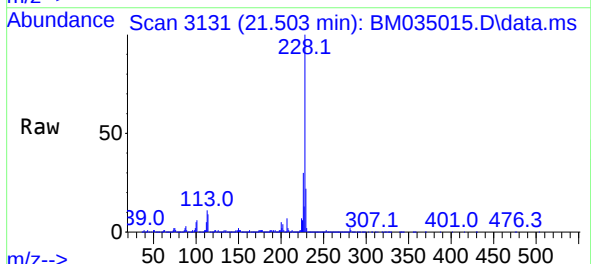
Manual Integrations  
APPROVED

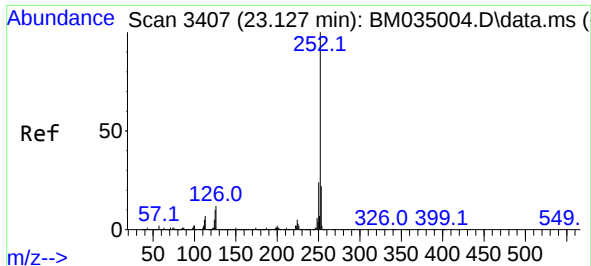
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#87  
Chrysene  
Concen: 18.181 ng/u1  
RT: 21.503 min Scan# 3131  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

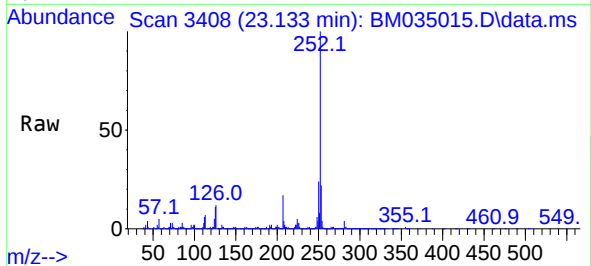
Tgt Ion:228 Resp: 1044765  
Ion Ratio Lower Upper  
228 100  
226 30.0 23.7 35.5  
229 21.9 15.7 23.5





#90  
Benzo(b)fluoranthene  
Concen: 22.918 ng/ul  
RT: 23.133 min Scan# 3407  
Delta R.T. 0.000 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

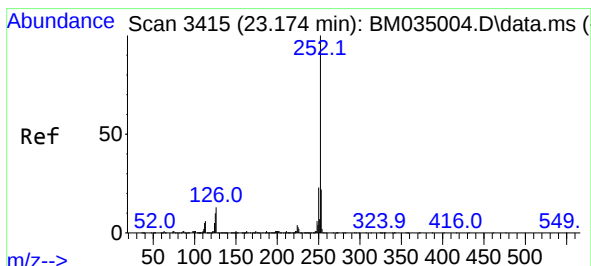
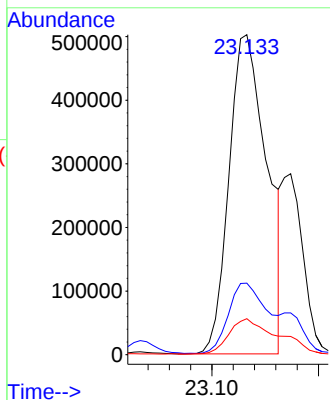
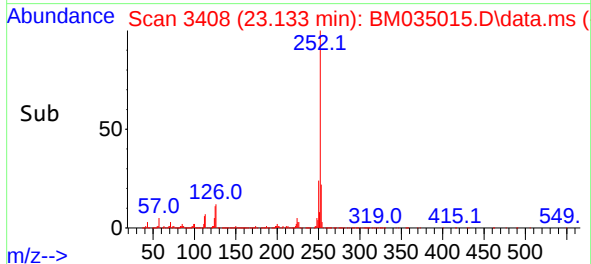
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



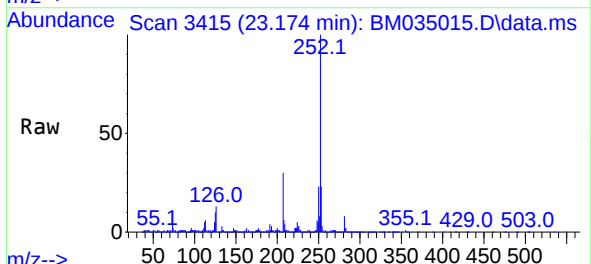
Tgt Ion:252 Resp: 124540  
Ion Ratio Lower Upper  
252 100  
253 22.3 17.4 26.0  
125 11.2 7.6 11.4

Manual Integrations  
APPROVED

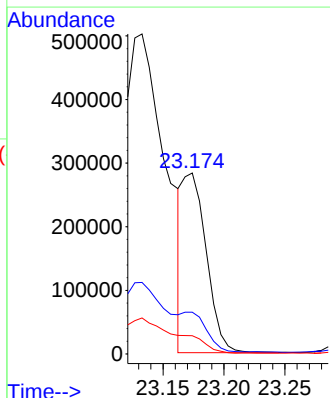
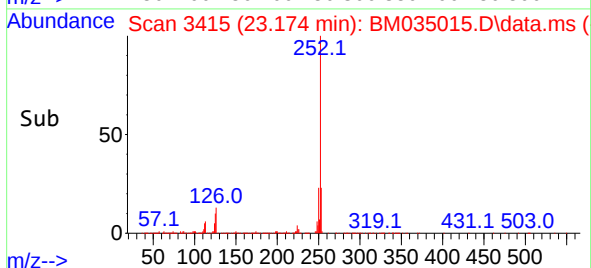
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022

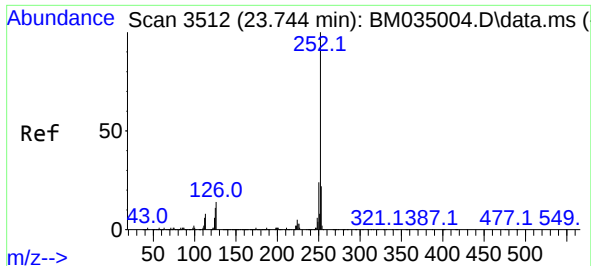


#91  
Benzo(k)fluoranthene  
Concen: 7.383 ng/ul m  
RT: 23.174 min Scan# 3415  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44



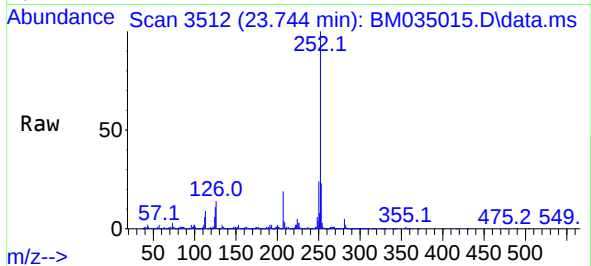
Tgt Ion:252 Resp: 382038  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.4 26.2  
125 10.1 7.8 11.6





#93  
Benzo(a)pyrene  
Concen: 17.421 ng/ul  
RT: 23.744 min Scan# 3512  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

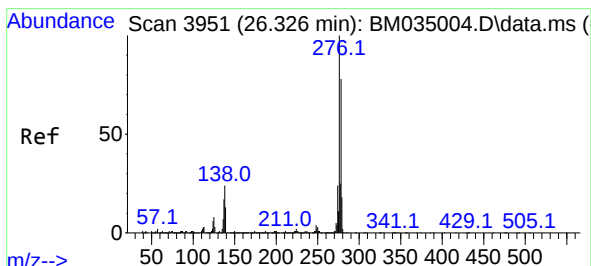
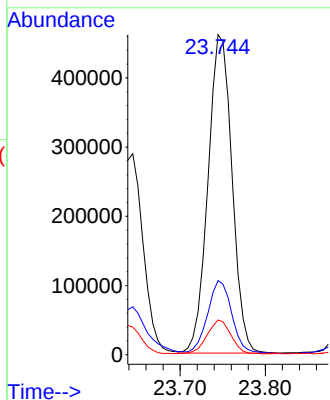
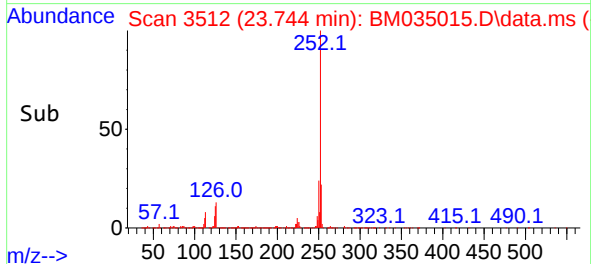
Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL



Tgt Ion:252 Resp: 902494  
Ion Ratio Lower Upper  
252 100  
253 23.2 16.6 25.0  
125 10.9 6.2 9.2

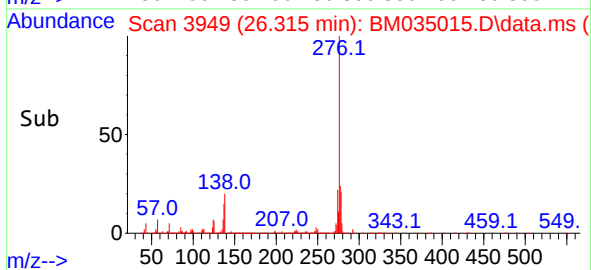
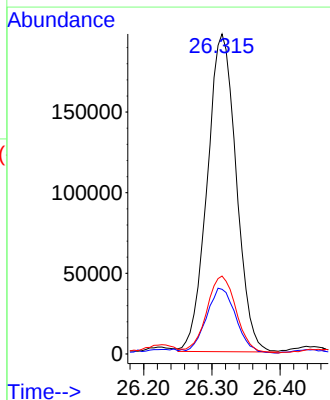
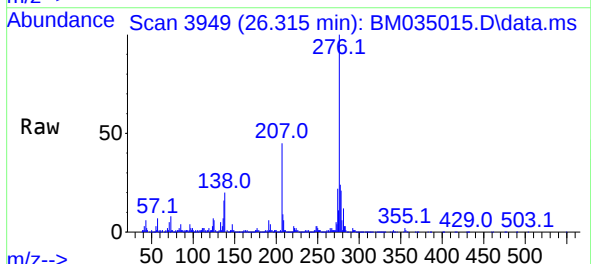
Manual Integrations  
APPROVED

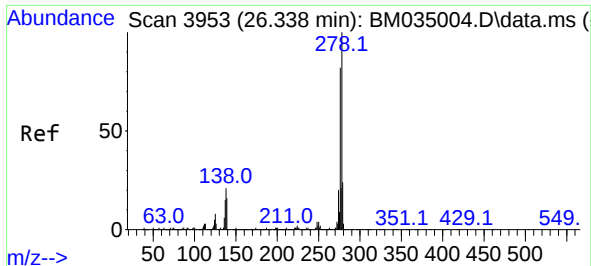
Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 9.851 ng/ul  
RT: 26.315 min Scan# 3949  
Delta R.T. -0.012 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

Tgt Ion:276 Resp: 583808  
Ion Ratio Lower Upper  
276 100  
138 20.2 15.3 22.9  
277 24.4 19.6 29.4





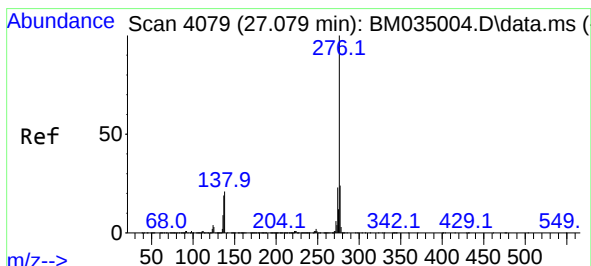
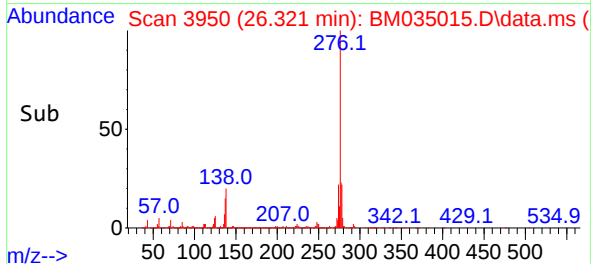
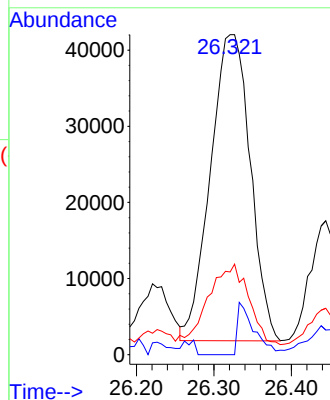
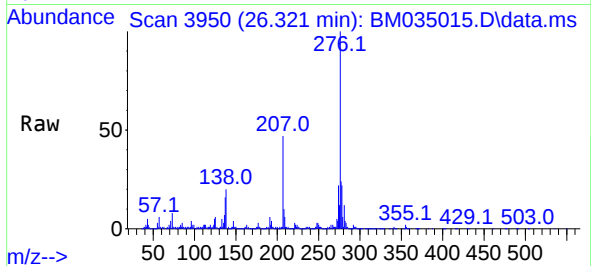
#95  
Dibenzo(a,h)anthracene  
Concen: 2.831 ng/ul  
RT: 26.321 min Scan# 3953  
Delta R.T. -0.018 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

Instrument :  
BNA\_M  
ClientSampleId :  
EW4A2DL

Tgt Ion:278 Resp: 143832  
Ion Ratio Lower Upper  
278 100  
139 0.0 9.7 14.5  
279 25.9 18.8 28.2

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 05/16/2022  
Supervised By :Yogesh Patel 05/17/2022



#96  
Benzo(g,h,i)perylene  
Concen: 9.311 ng/ul  
RT: 27.074 min Scan# 4078  
Delta R.T. -0.006 min  
Lab File: BM035015.D  
Acq: 12 May 2022 09:44

Tgt Ion:276 Resp: 458334  
Ion Ratio Lower Upper  
276 100  
138 21.6 13.0 19.6  
277 23.8 18.6 28.0

