

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM111324\  
 Data File : BM048676.D  
 Acq On : 14 Nov 2024 17:21  
 Operator : RC/JU  
 Sample : PB164903BS  
 Misc :  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SLCS903

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/15/2024  
 Supervised By :mohammad ahmed 11/15/2024

Quant Time: Nov 14 17:50:10 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM110624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 13 11:38:55 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.737  | 152  | 3183m    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.497 | 136  | 10396    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.322 | 164  | 6242     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.082 | 188  | 11374    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.266 | 240  | 10273    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.484 | 264  | 10824    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.122  | 96   | 3443     | 0.897 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.103 | 152  | 5447     | 0.405 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.109 | 212  | 12732    | 0.441 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.156  | 88   | 7791     | 1.765 | ng/ul# | 63       |
| 5) Naphthalene              | 10.546 | 128  | 9816     | 0.377 | ng/ul  | 96       |
| 7) 2-Methylnaphthalene      | 12.180 | 142  | 5637     | 0.344 | ng/ul  | 95       |
| 8) 1-Methylnaphthalene      | 12.378 | 142  | 6350     | 0.378 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.049 | 152  | 8982     | 0.379 | ng/ul  | 98       |
| 11) Acenaphthene            | 14.387 | 153  | 7156     | 0.377 | ng/ul  | 99       |
| 12) Fluorene                | 15.395 | 166  | 7665     | 0.372 | ng/ul  | 99       |
| 14) Pentachlorophenol       | 16.753 | 266  | 2271     | 0.544 | ng/ul  | 97       |
| 15) Phenanthrene            | 17.125 | 178  | 11287    | 0.378 | ng/ul  | 99       |
| 16) Anthracene              | 17.234 | 178  | 10347    | 0.372 | ng/ul  | 97       |
| 19) Fluoranthene            | 19.137 | 202  | 15056    | 0.396 | ng/ul  | 99       |
| 20) Pyrene                  | 19.500 | 202  | 16501    | 0.400 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.257 | 228  | 10529    | 0.313 | ng/ul  | 99       |
| 22) Chrysene                | 21.301 | 228  | 18516    | 0.459 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.814 | 252  | 14202    | 0.421 | ng/ul  | 96       |
| 25) Benzo(k)fluoranthene    | 22.861 | 252  | 17959    | 0.454 | ng/ul  | 96       |
| 26) Benzo(a)pyrene          | 23.390 | 252  | 13865    | 0.421 | ng/ul  | 96       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.756 | 276  | 16875    | 0.367 | ng/ul# | 98       |
| 28) Dibenzo(a,h)anthracene  | 25.769 | 278  | 12395    | 0.346 | ng/ul  | 98       |
| 29) Benzo(g,h,i)perylene    | 26.430 | 276  | 15152    | 0.393 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

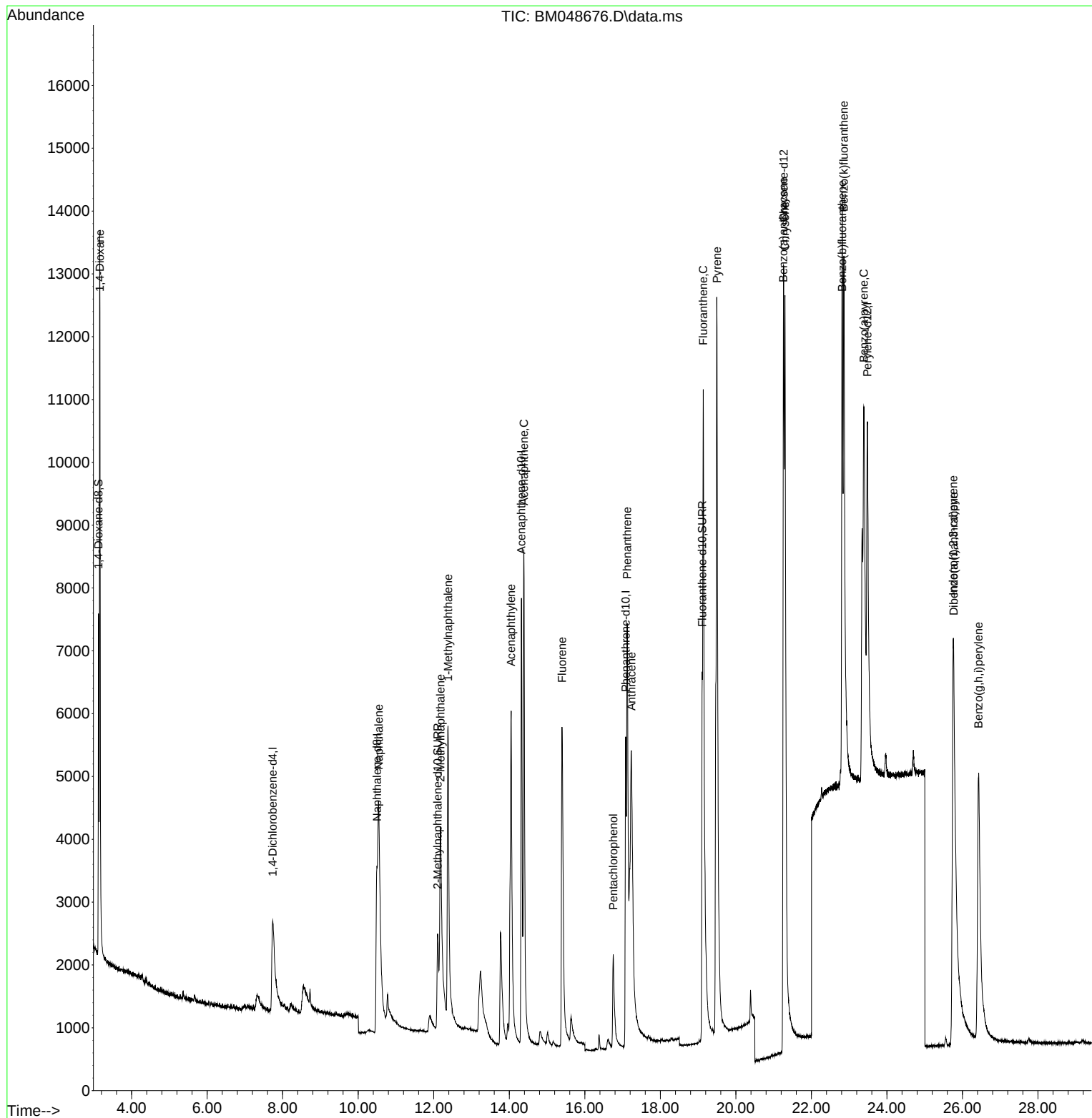
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM111324\  
Data File : BM048676.D  
Acq On : 14 Nov 2024 17:21  
Operator : RC/JU  
Sample : PB164903BS  
Misc :  
ALS Vial : 56 Sample Multiplier: 1

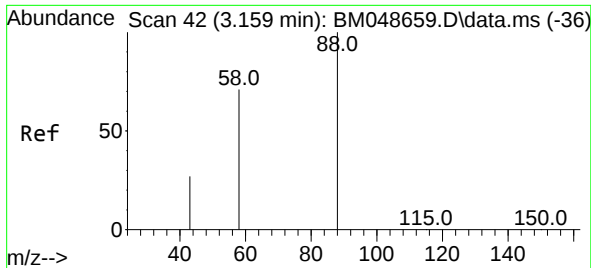
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903

Quant Time: Nov 14 17:50:10 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM110624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 13 11:38:55 2024  
Response via : Initial Calibration

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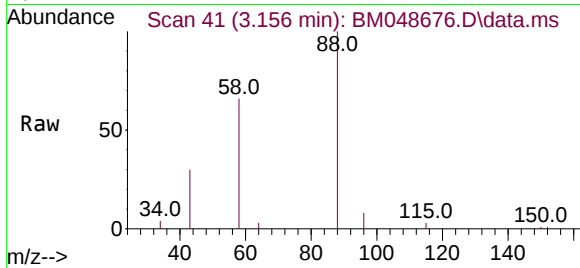
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024





#2  
1,4-Dioxane  
Concen: 1.765 ng/ul  
RT: 3.156 min Scan# 41  
Delta R.T. -0.008 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

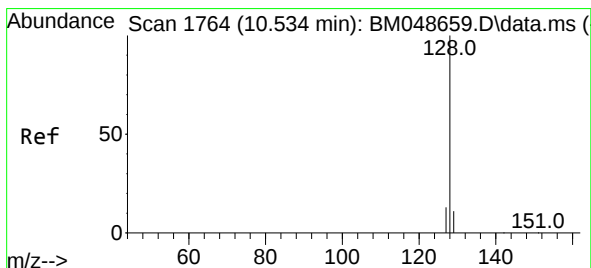
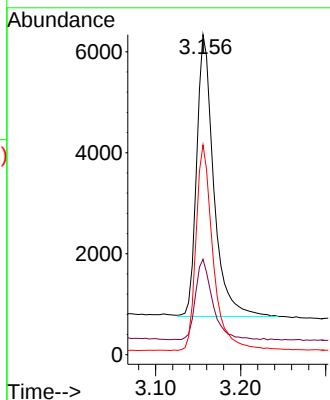
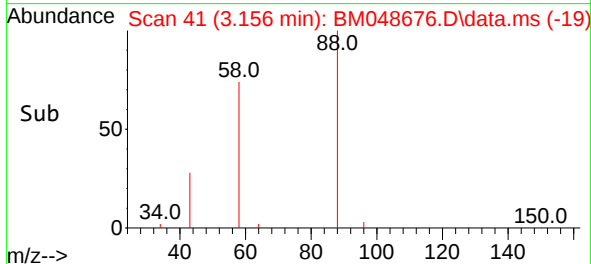
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



Tgt Ion: 88 Resp: 779  
Ion Ratio Lower Upper  
88 100  
43 29.8 60.2 90.4  
58 65.6 44.2 66.2

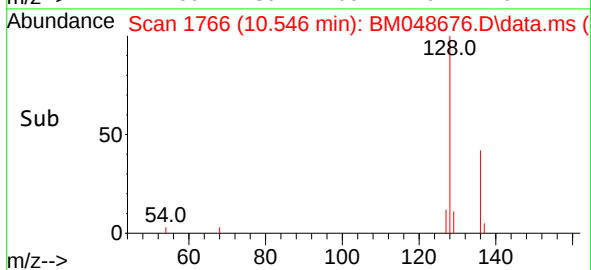
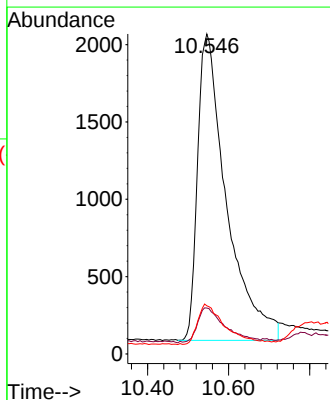
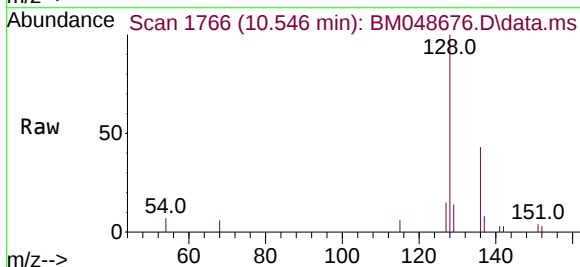
Manual Integrations  
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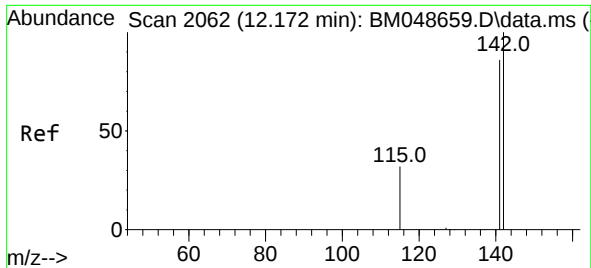
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#5  
Naphthalene  
Concen: 0.377 ng/ul  
RT: 10.546 min Scan# 1766  
Delta R.T. 0.000 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

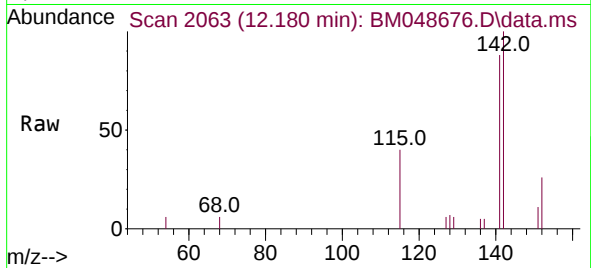
Tgt Ion:128 Resp: 9816  
Ion Ratio Lower Upper  
128 100  
129 14.4 10.0 15.0  
127 15.0 10.9 16.3





#7  
2-Methylnaphthalene  
Concen: 0.344 ng/ul  
RT: 12.180 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

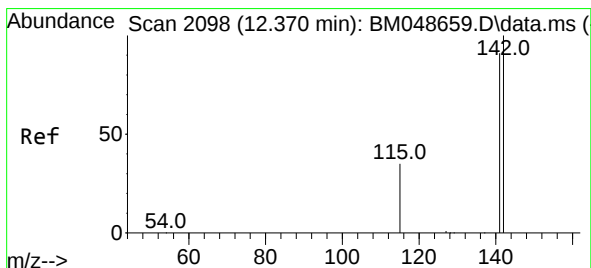
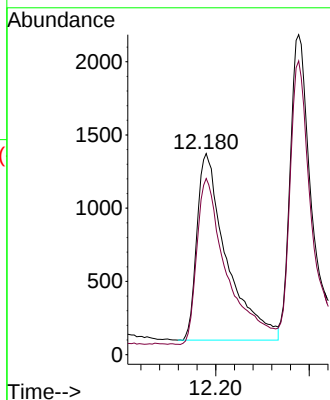
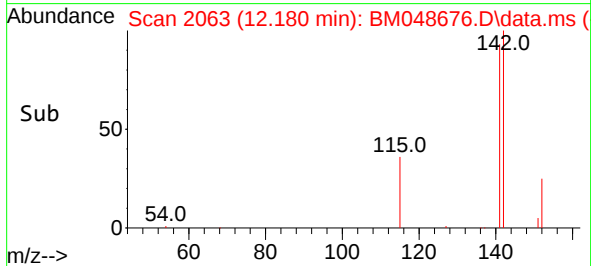
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



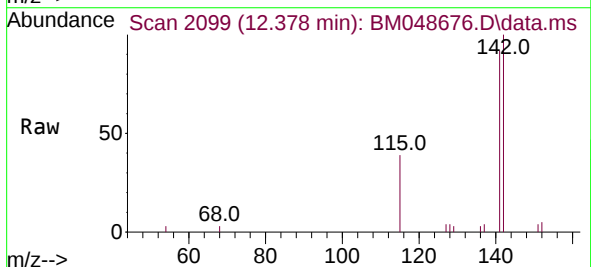
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Ion Ratio Lower Upper  
142 100  
141 90.5 68.6 103.0

Manual Integrations  
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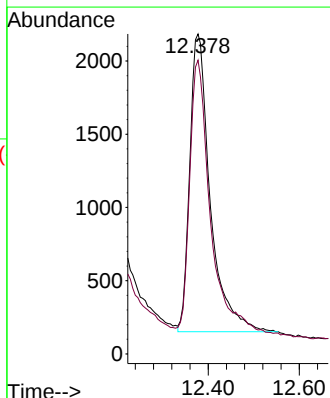
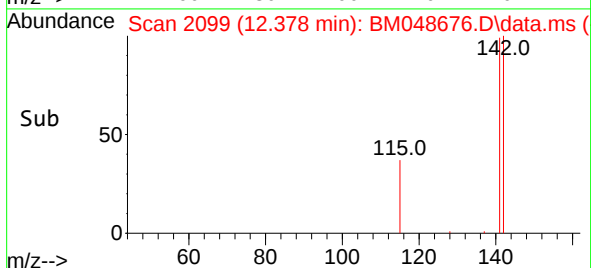
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024

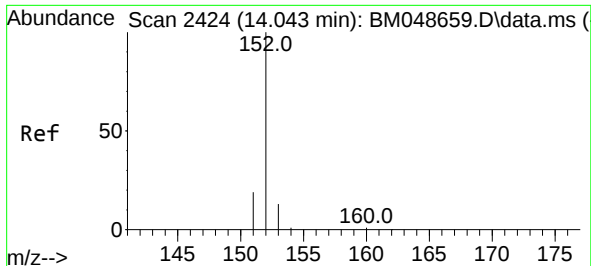


#8  
1-Methylnaphthalene  
Concen: 0.378 ng/ul  
RT: 12.378 min Scan# 2099  
Delta R.T. 0.000 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21



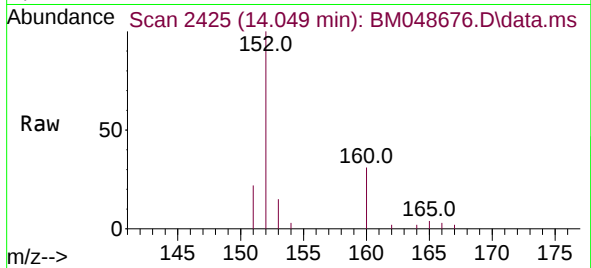
Tgt Ion:142 Resp: 6350  
Ion Ratio Lower Upper  
142 100  
141 92.0 72.8 109.2





#10  
Acenaphthylene  
Concen: 0.379 ng/ul  
RT: 14.049 min Scan# 2425  
Delta R.T. -0.005 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

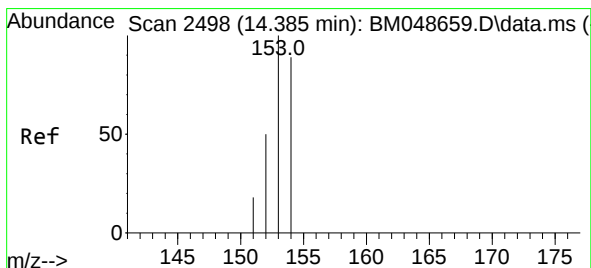
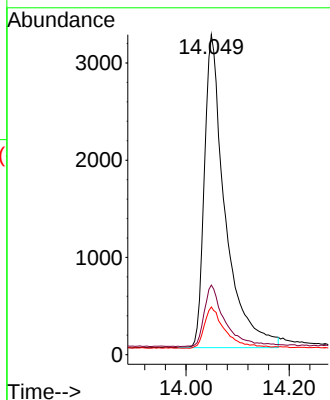
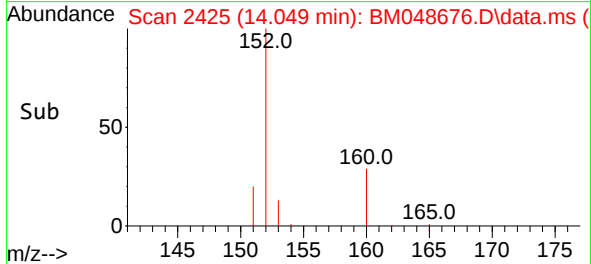
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



Tgt Ion:152 Resp: 898  
Ion Ratio Lower Upper  
152 100  
151 21.8 16.5 24.7  
153 14.9 11.6 17.4

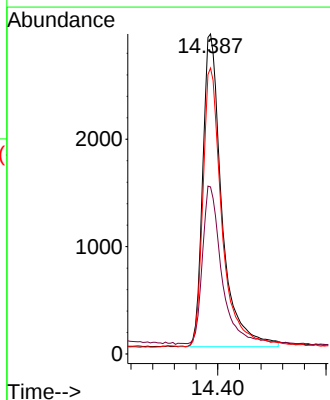
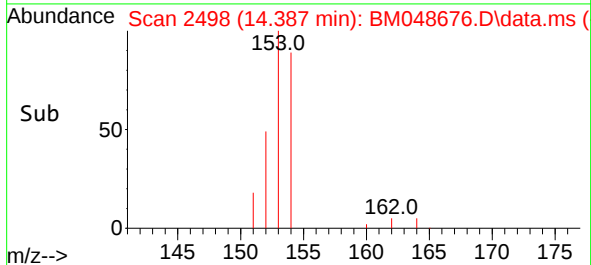
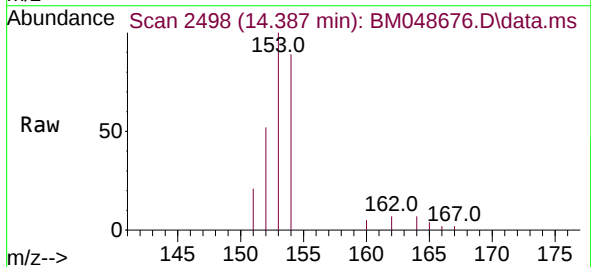
Manual Integrations  
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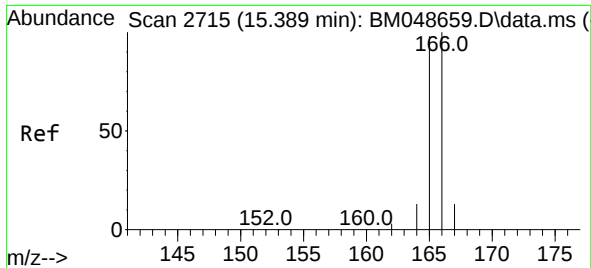
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#11  
Acenaphthene  
Concen: 0.377 ng/ul  
RT: 14.387 min Scan# 2498  
Delta R.T. 0.000 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

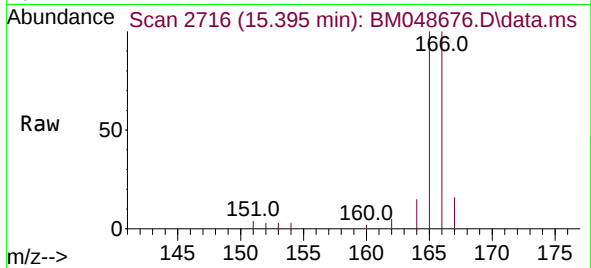
Tgt Ion:153 Resp: 7156  
Ion Ratio Lower Upper  
153 100  
152 52.2 41.1 61.7  
154 89.4 70.3 105.5





#12  
Fluorene  
Concen: 0.372 ng/ul  
RT: 15.395 min Scan# 2715  
Delta R.T. -0.005 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

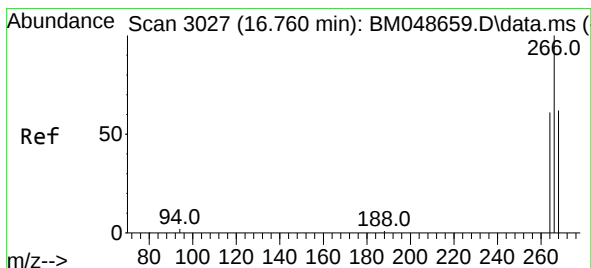
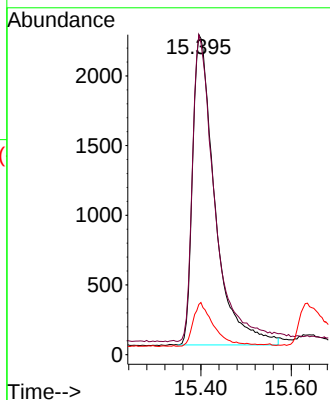
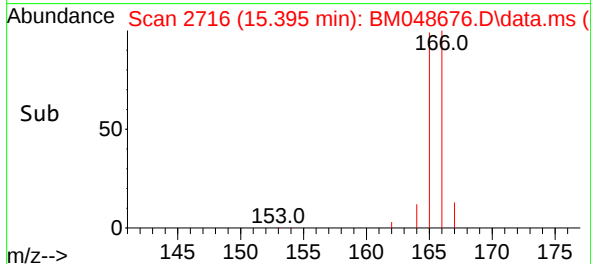
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



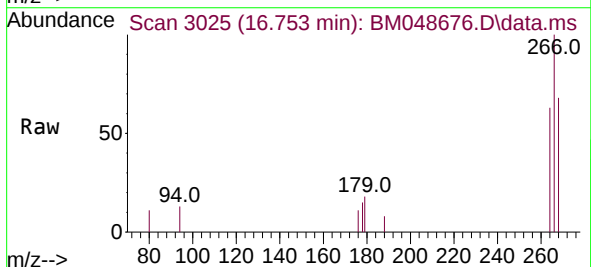
Tgt Ion:166 Resp: 766  
Ion Ratio Lower Upper  
166 100  
165 99.9 78.7 118.1  
167 15.7 12.6 18.8

Manual Integrations  
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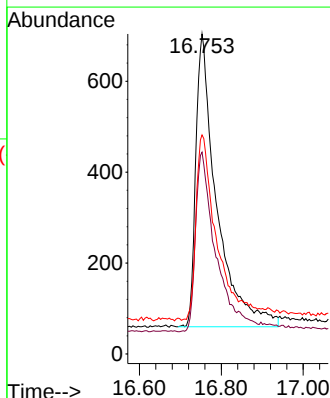
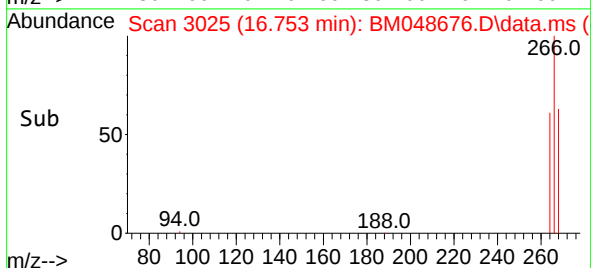
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024

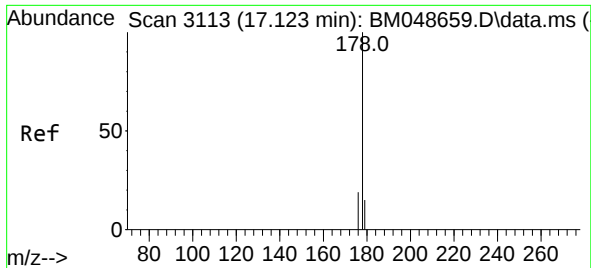


#14  
Pentachlorophenol  
Concen: 0.544 ng/ul  
RT: 16.753 min Scan# 3025  
Delta R.T. -0.008 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21



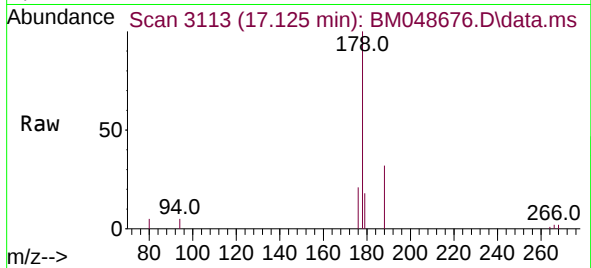
Tgt Ion:266 Resp: 2271  
Ion Ratio Lower Upper  
266 100  
264 62.0 49.6 74.4  
268 66.3 49.4 74.0





#15  
Phenanthrene  
Concen: 0.378 ng/u1  
RT: 17.125 min Scan# 3113  
Delta R.T. -0.004 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

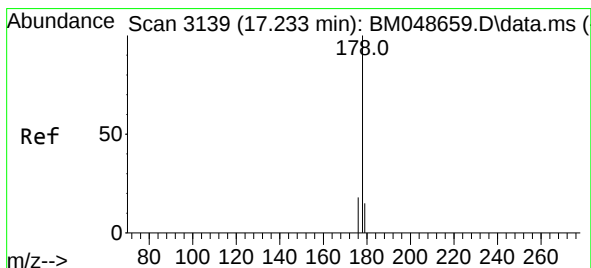
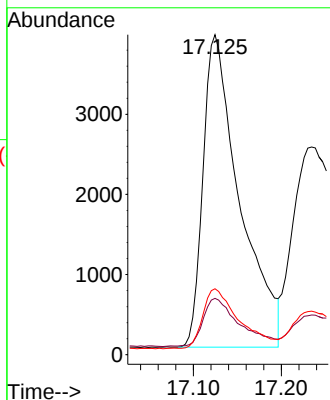
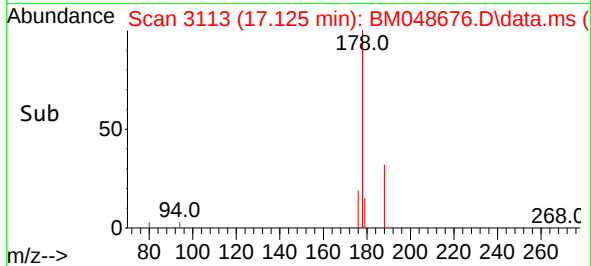
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



Tgt Ion:178 Resp: 1128  
Ion Ratio Lower Upper  
178 100  
179 17.6 13.4 20.0  
176 20.6 16.2 24.2

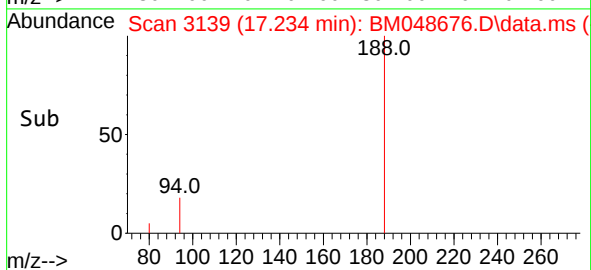
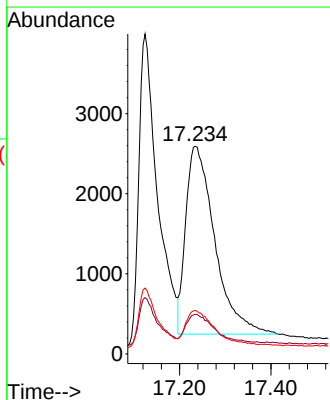
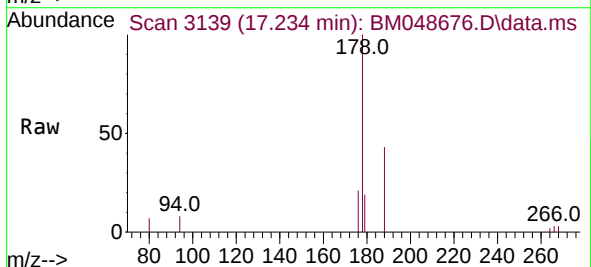
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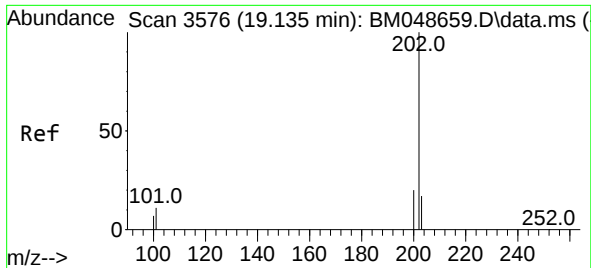
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#16  
Anthracene  
Concen: 0.372 ng/u1  
RT: 17.234 min Scan# 3139  
Delta R.T. -0.004 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

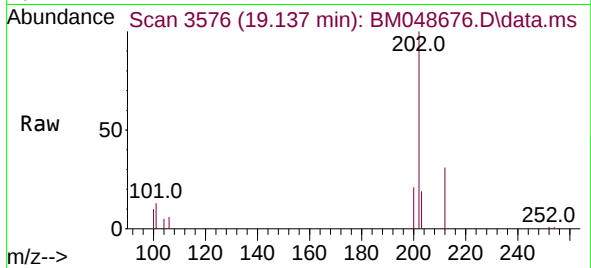
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Ion Ratio Lower Upper  
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179 19.1 13.7 20.5  
176 21.0 15.9 23.9





#19  
Fluoranthene  
Concen: 0.396 ng/u1  
RT: 19.137 min Scan# 3576  
Delta R.T. -0.005 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

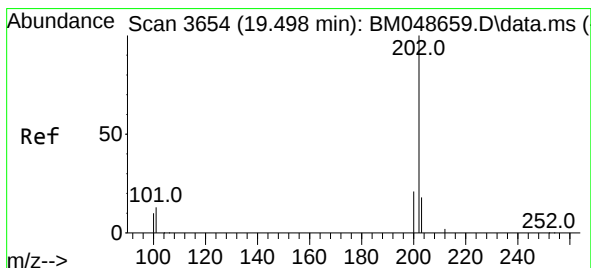
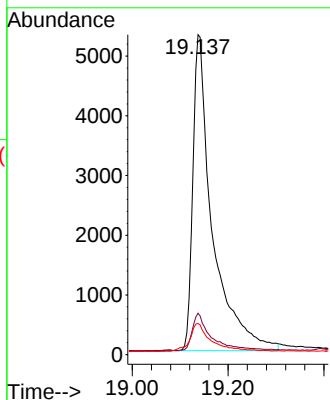
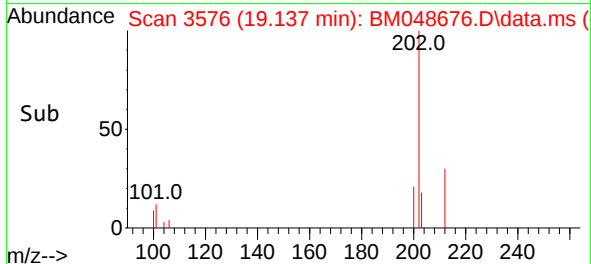
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



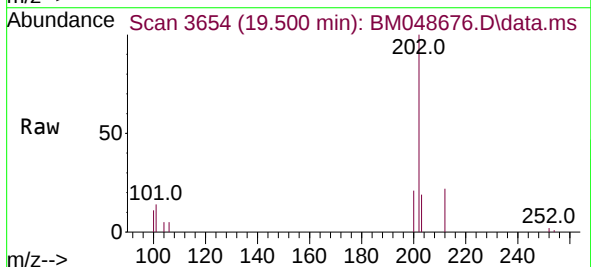
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Ion Ratio Lower Upper  
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100 9.7 7.3 10.9

Manual Integrations  
APPROVED

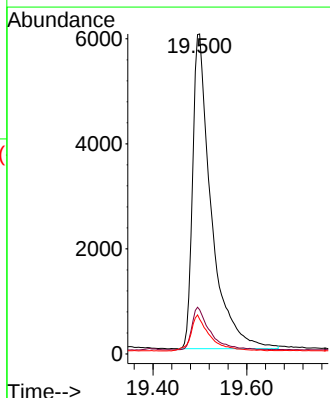
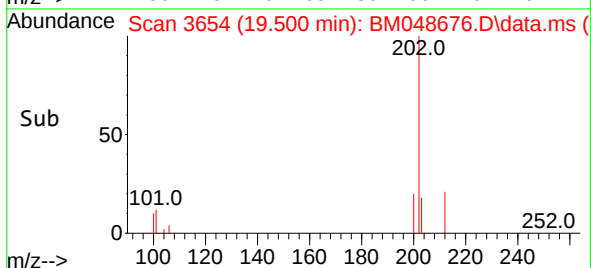
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024

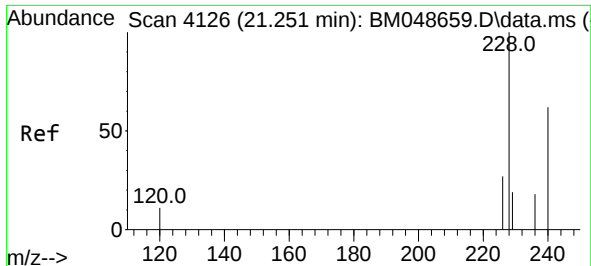


#20  
Pyrene  
Concen: 0.400 ng/u1  
RT: 19.500 min Scan# 3654  
Delta R.T. -0.005 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21



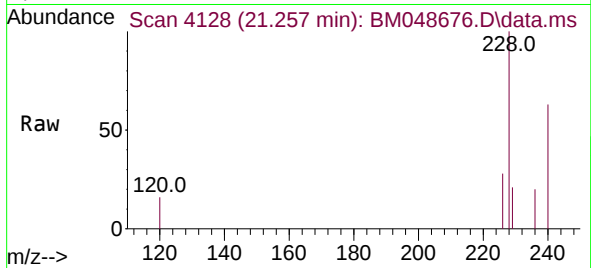
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Ion Ratio Lower Upper  
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101 13.8 11.4 17.2  
100 10.9 8.5 12.7





#21  
Benzo(a)anthracene  
Concen: 0.313 ng/ul  
RT: 21.257 min Scan# 4126  
Delta R.T. 0.003 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

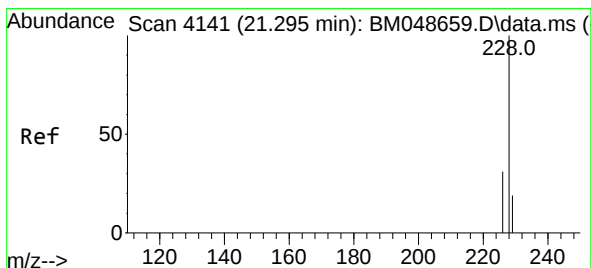
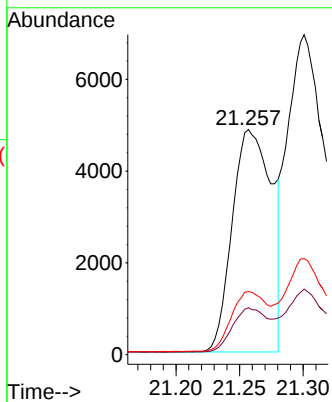
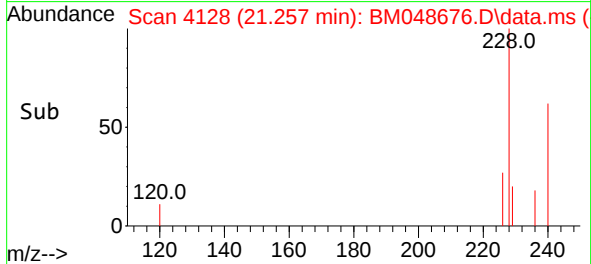
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



Tgt Ion:228 Resp: 10529  
Ion Ratio Lower Upper  
228 100  
229 20.8 16.2 24.2  
226 28.0 22.1 33.1

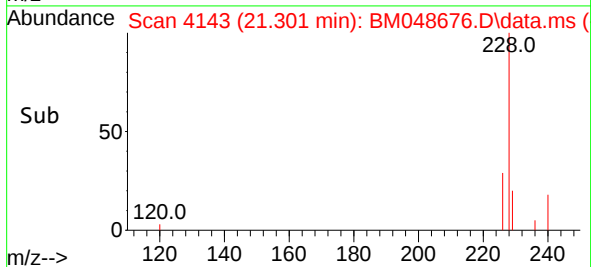
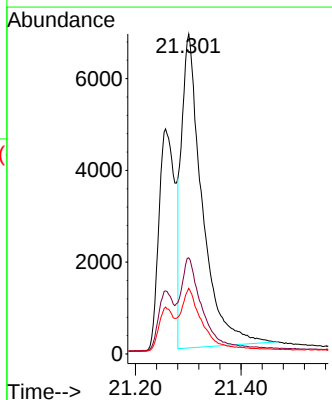
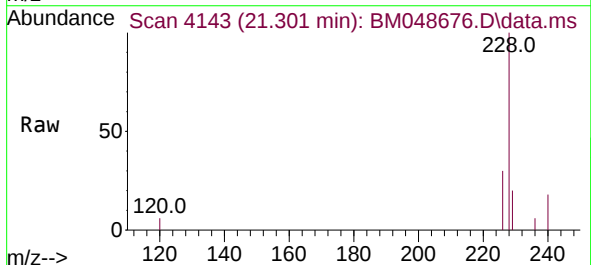
Manual Integrations  
APPROVED

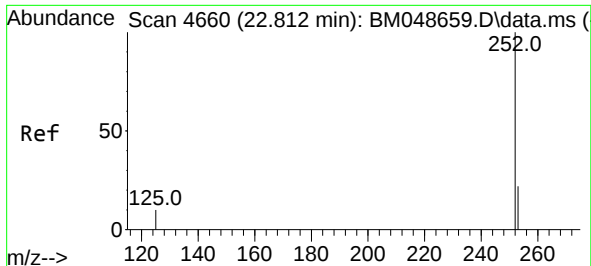
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#22  
Chrysene  
Concen: 0.459 ng/ul  
RT: 21.301 min Scan# 4143  
Delta R.T. 0.003 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

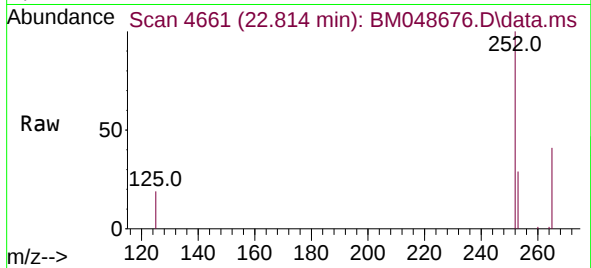
Tgt Ion:228 Resp: 18516  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.4 36.6  
229 20.5 16.5 24.7





#24  
Benzo(b)fluoranthene  
Concen: 0.421 ng/ul  
RT: 22.814 min Scan# 4661  
Delta R.T. 0.000 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

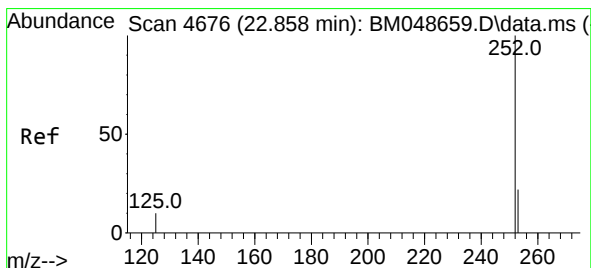
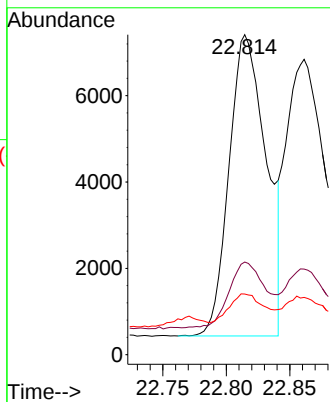
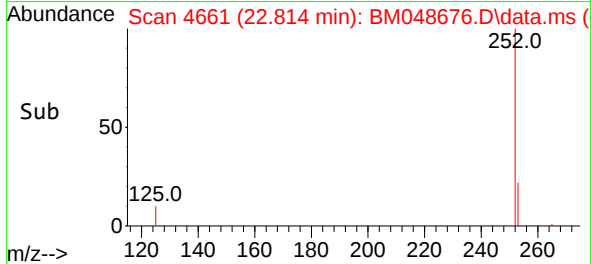
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



Tgt Ion:252 Resp: 1420  
Ion Ratio Lower Upper  
252 100  
253 28.9 0.0 61.6  
125 19.0 0.0 43.2

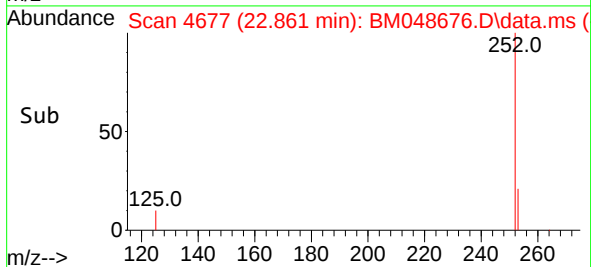
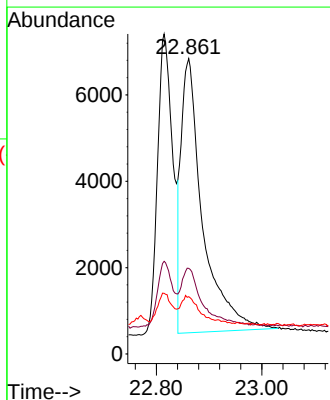
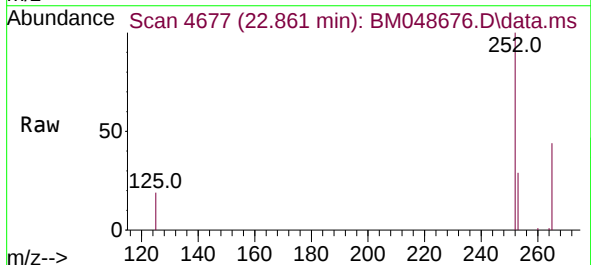
Manual Integrations  
APPROVED

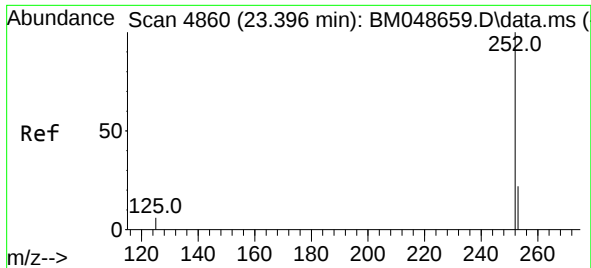
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.454 ng/ul  
RT: 22.861 min Scan# 4677  
Delta R.T. 0.003 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

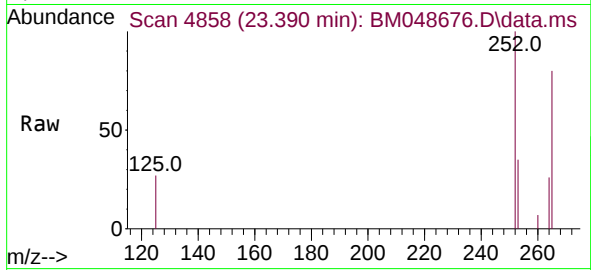
Tgt Ion:252 Resp: 17959  
Ion Ratio Lower Upper  
252 100  
253 29.0 25.0 37.4  
125 19.4 17.4 26.0





#26  
Benzo(a)pyrene  
Concen: 0.421 ng/ul  
RT: 23.390 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

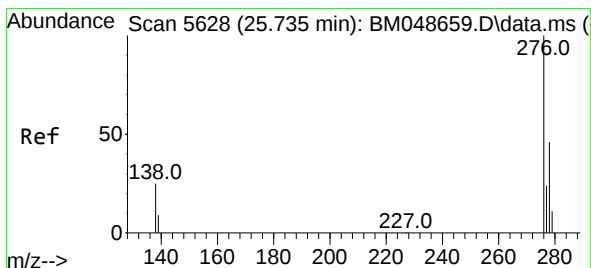
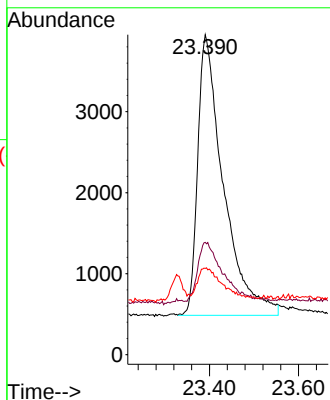
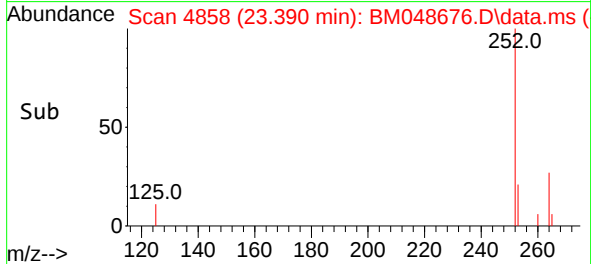
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



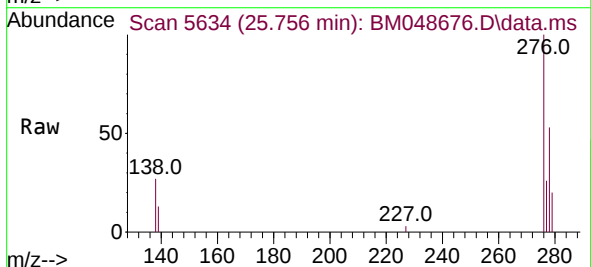
Tgt Ion:252 Resp: 1386  
Ion Ratio Lower Upper  
252 100  
253 35.1 29.6 44.4  
125 26.9 23.9 35.9

Manual Integrations  
APPROVED

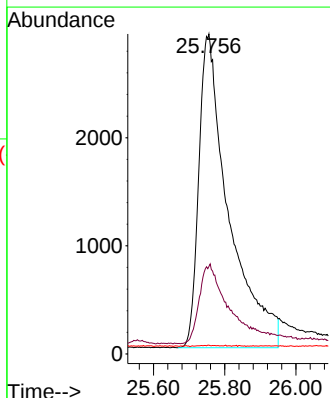
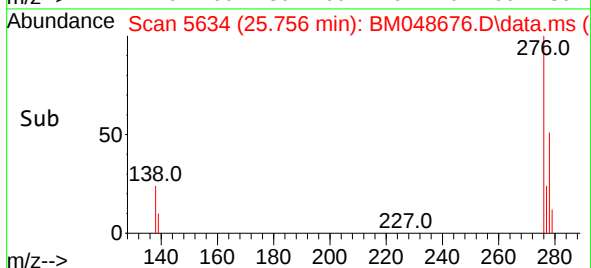
Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024

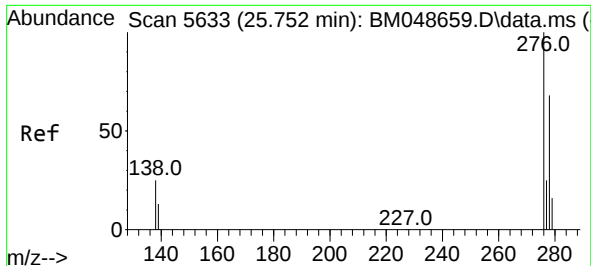


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.367 ng/ul  
RT: 25.756 min Scan# 5634  
Delta R.T. 0.017 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21



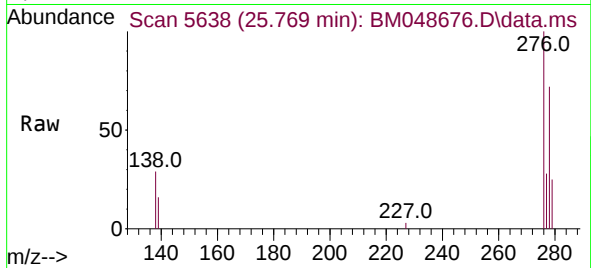
Tgt Ion:276 Resp: 16875  
Ion Ratio Lower Upper  
276 100  
138 26.2 20.1 30.1  
227 0.0 0.1 0.1#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.346 ng/ul  
RT: 25.769 min Scan# 5633  
Delta R.T. 0.010 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21

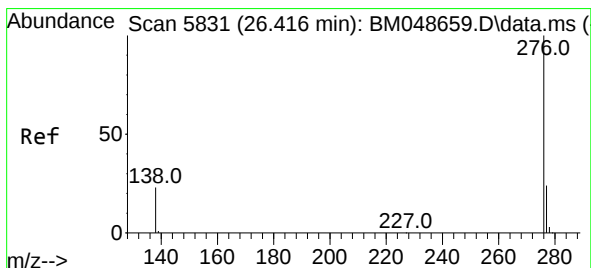
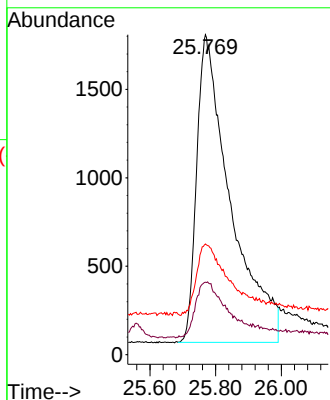
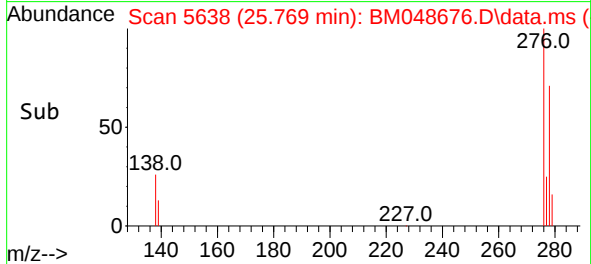
Instrument :  
BNA\_M  
ClientSampleId :  
SLCS903



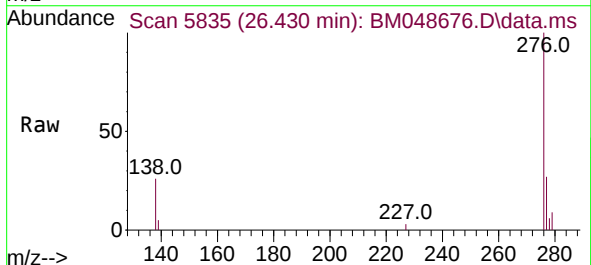
Tgt Ion:278 Resp: 1239  
Ion Ratio Lower Upper  
278 100  
139 22.7 17.8 26.8  
279 34.6 26.6 39.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/15/2024  
Supervised By :mohammad ahmed 11/15/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.393 ng/ul  
RT: 26.430 min Scan# 5835  
Delta R.T. 0.010 min  
Lab File: BM048676.D  
Acq: 14 Nov 2024 17:21



Tgt Ion:276 Resp: 15152  
Ion Ratio Lower Upper  
276 100  
138 25.6 21.0 31.6  
277 26.6 20.5 30.7

