

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM061224\  
 Data File : BM045997.D  
 Acq On : 12 Jun 2024 14:17  
 Operator : MA/JU  
 Sample : P2642-03MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4C18MSD

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
 Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 13 00:07:56 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 13 00:05:38 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.451  | 152  | 3075     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.227 | 136  | 10818    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.095 | 164  | 6925     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.833 | 188  | 15154    | 0.400 | ng/ul  | -0.01    |
| 17) Chrysene-d12            | 21.026 | 240  | 13351    | 0.400 | ng/ul  | -0.01    |
| 23) Perylene-d12            | 23.127 | 264  | 15094    | 0.400 | ng/ul  | -0.01    |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.050  | 96   | 1624     | 0.464 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.827 | 152  | 4422     | 0.284 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.863 | 212  | 12552    | 0.314 | ng/ul  | -0.01    |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.080  | 88   | 4342     | 1.083 | ng/ul# | 73       |
| 5) Naphthalene              | 10.271 | 128  | 14324    | 0.507 | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 11.899 | 142  | 7514     | 0.417 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.119 | 142  | 7222     | 0.368 | ng/ul  | 98       |
| 10) Acenaphthylene          | 13.813 | 152  | 15889    | 0.505 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.155 | 153  | 15901    | 0.687 | ng/ul  | 99       |
| 12) Fluorene                | 15.150 | 166  | 18765    | 0.725 | ng/ul  | 98       |
| 14) Pentachlorophenol       | 16.516 | 266  | 1466     | 0.517 | ng/ul  | 96       |
| 15) Phenanthrene            | 16.875 | 178  | 246112   | 5.784 | ng/ul  | 99       |
| 16) Anthracene              | 16.968 | 178  | 45736    | 1.260 | ng/ul  | 99       |
| 19) Fluoranthene            | 18.895 | 202  | 445741   | 8.373 | ng/ul  | 96       |
| 20) Pyrene                  | 19.258 | 202  | 359539   | 6.474 | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.008 | 228  | 201837   | 4.119 | ng/ul  | 99       |
| 22) Chrysene                | 21.061 | 228  | 205783   | 3.857 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.507 | 252  | 245077m  | 4.895 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.545 | 252  | 109555m  | 1.991 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.036 | 252  | 117774   | 2.366 | ng/ul# | 80       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.178 | 276  | 93415    | 1.451 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.188 | 278  | 35020    | 0.680 | ng/ul  | 95       |
| 29) Benzo(g,h,i)perylene    | 25.806 | 276  | 15615    | 0.281 | ng/ul  | 97       |

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

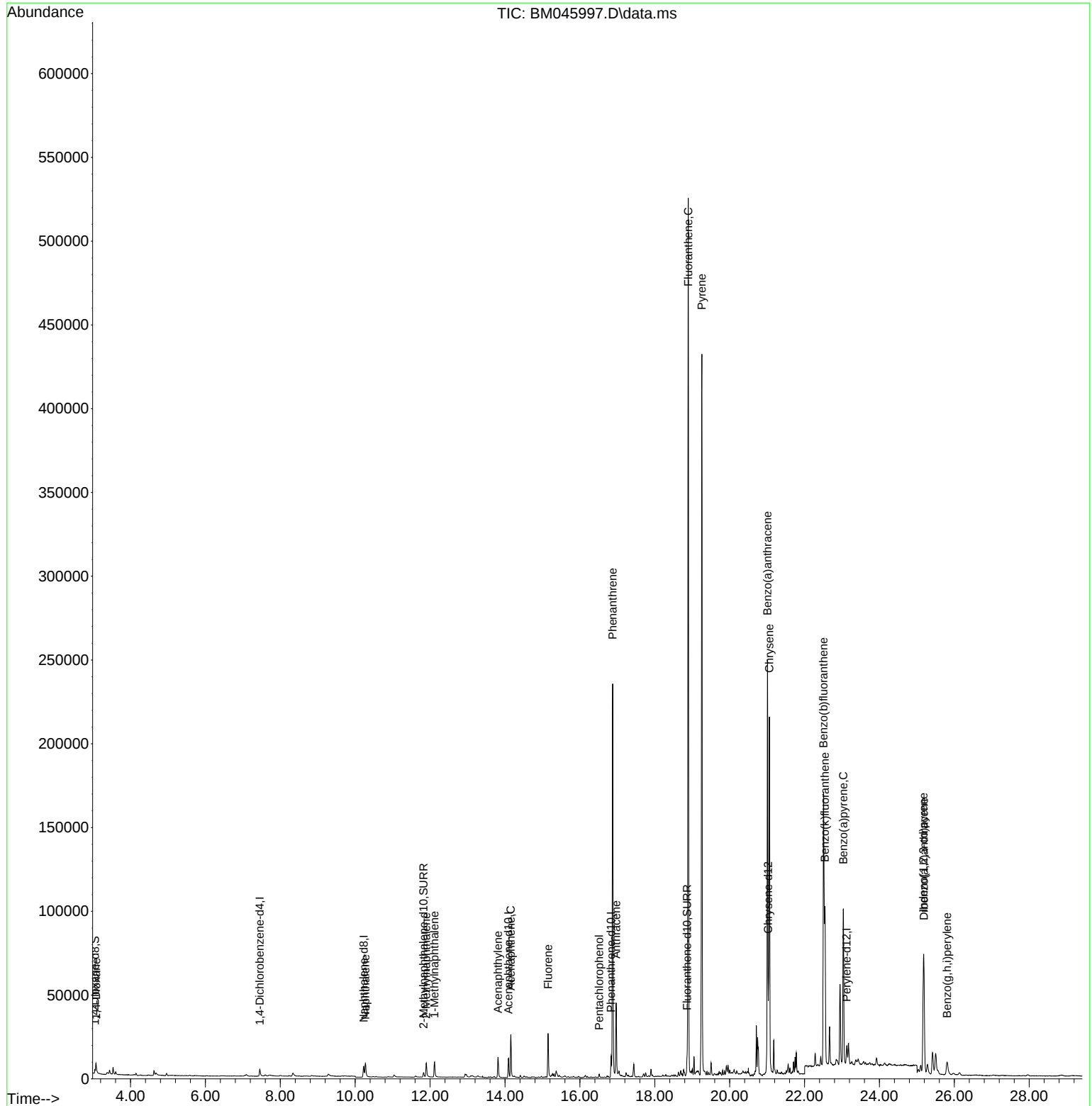
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Data File : BM045997.D  
Acq On : 12 Jun 2024 14:17  
Operator : MA/JU  
Sample : P2642-03MSD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

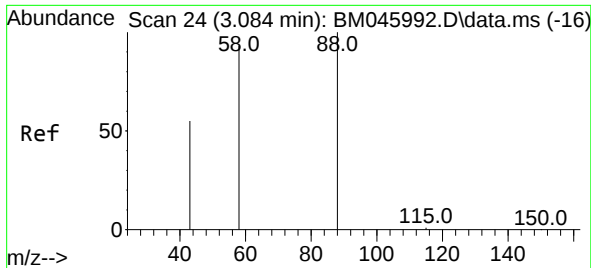
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD

Manual Integrations  
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Supervised By :mohammad ahmed 06/15/2024

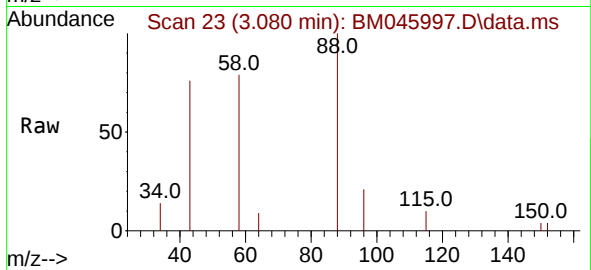
Quant Time: Jun 13 00:07:56 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM060624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 13 00:05:38 2024  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 1.083 ng/ul  
RT: 3.080 min Scan# 21  
Delta R.T. -0.004 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

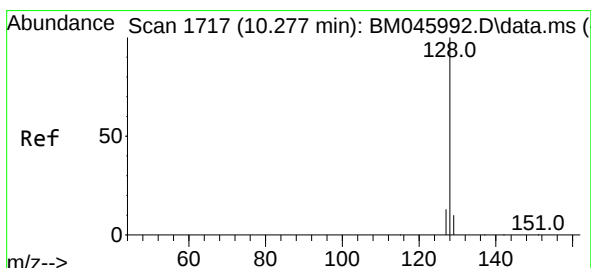
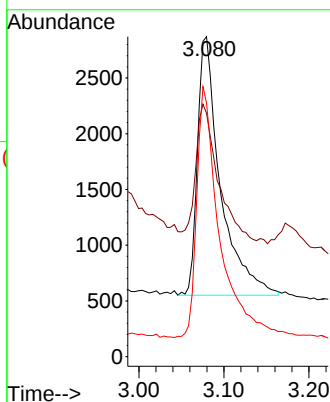
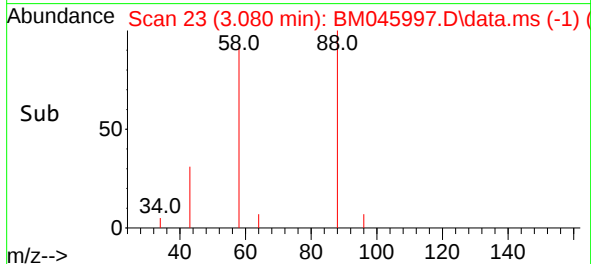
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



Tgt Ion: 88 Resp: 434  
Ion Ratio Lower Upper  
88 100  
43 76.0 87.4 131.2  
58 79.3 51.1 76.7

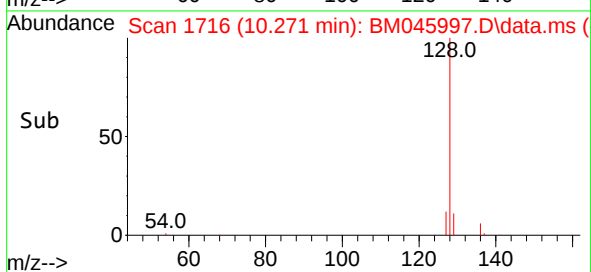
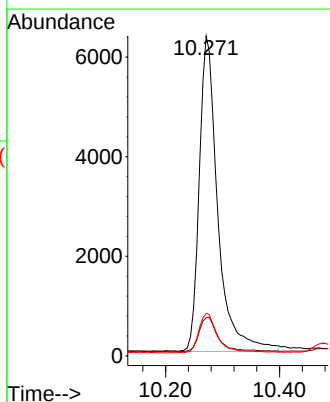
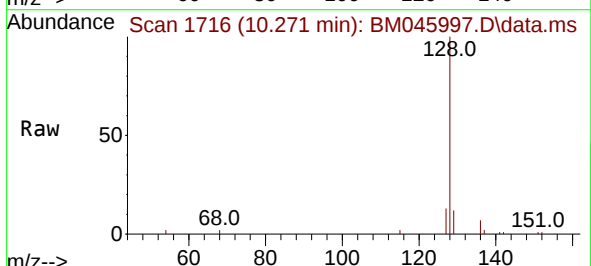
Manual Integrations  
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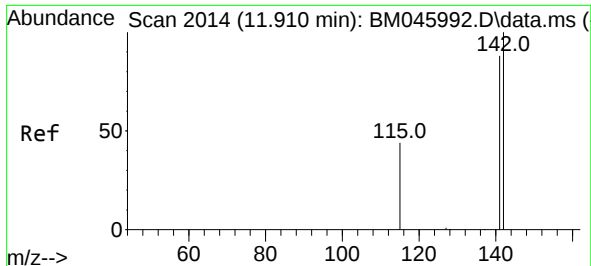
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#5  
Naphthalene  
Concen: 0.507 ng/ul  
RT: 10.271 min Scan# 1716  
Delta R.T. -0.005 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

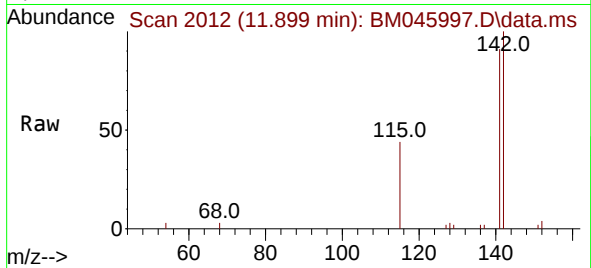
Tgt Ion:128 Resp: 14324  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.4 14.0  
127 13.3 10.6 15.8





#7  
2-Methylnaphthalene  
Concen: 0.417 ng/ul  
RT: 11.899 min Scan# 2014  
Delta R.T. -0.011 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

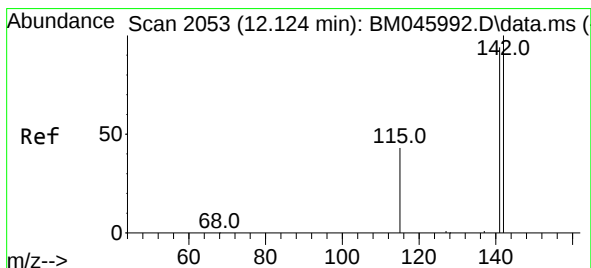
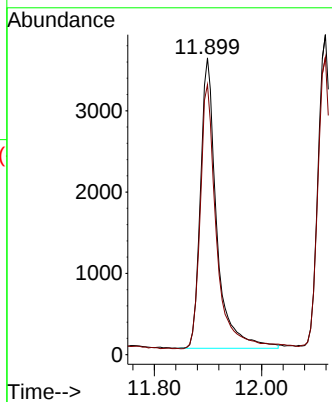
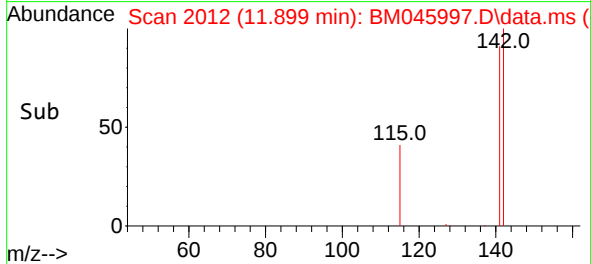
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



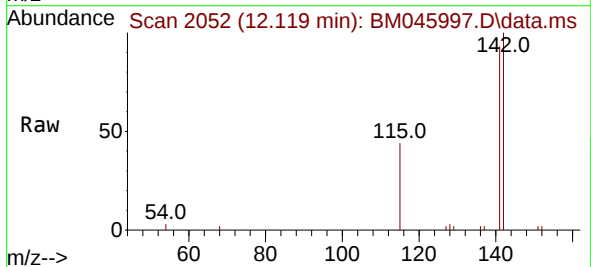
Tgt Ion:142 Resp: 7514  
Ion Ratio Lower Upper  
142 100  
141 91.3 72.2 108.4

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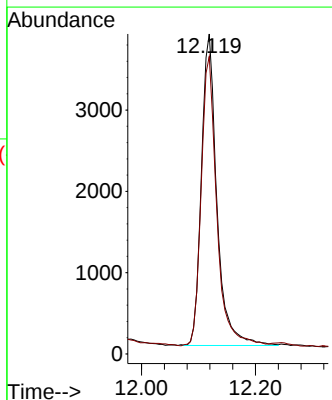
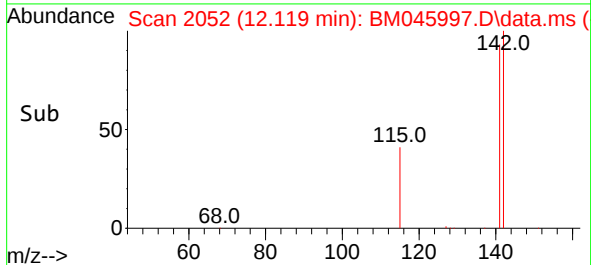
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

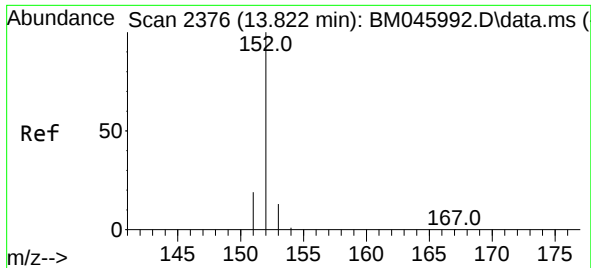


#8  
1-Methylnaphthalene  
Concen: 0.368 ng/ul  
RT: 12.119 min Scan# 2052  
Delta R.T. -0.006 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17



Tgt Ion:142 Resp: 7222  
Ion Ratio Lower Upper  
142 100  
141 93.7 73.5 110.3





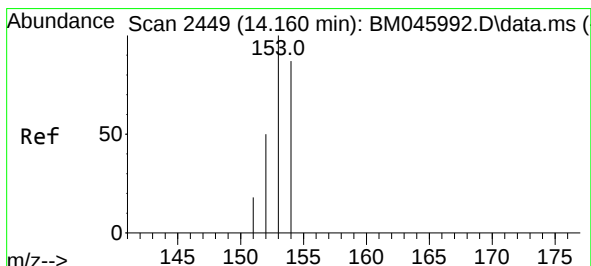
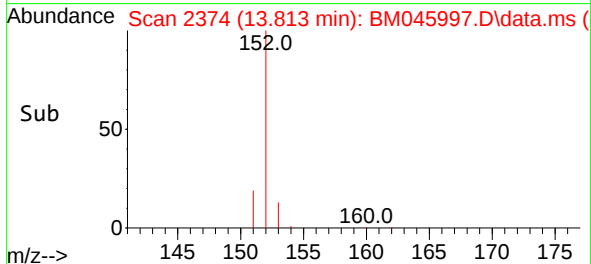
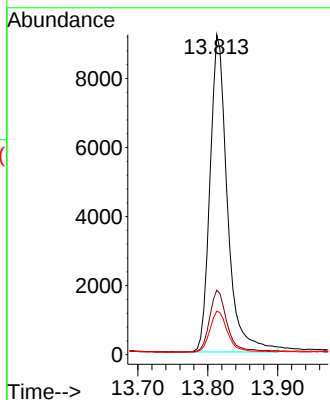
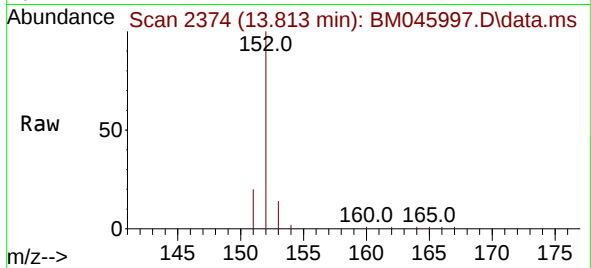
#10  
Acenaphthylene  
Concen: 0.505 ng/ul  
RT: 13.813 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD

Tgt Ion:152 Resp: 15889  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.4 24.6  
153 13.6 11.1 16.7

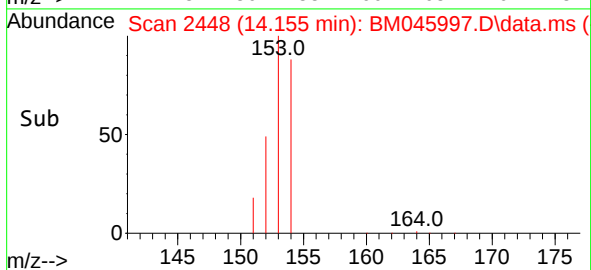
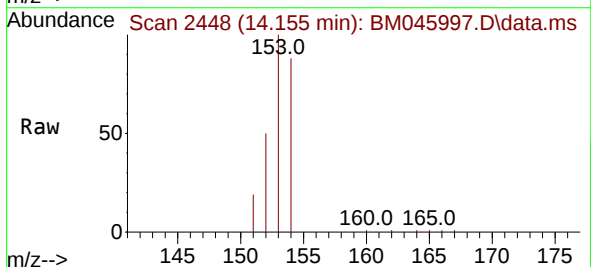
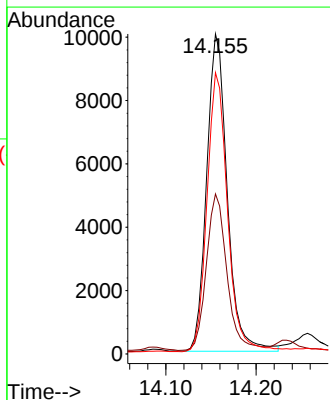
Manual Integrations  
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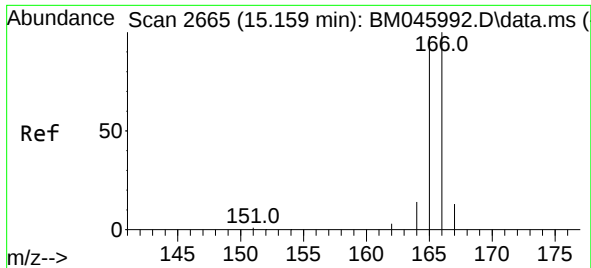
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#11  
Acenaphthene  
Concen: 0.687 ng/ul  
RT: 14.155 min Scan# 2448  
Delta R.T. -0.005 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

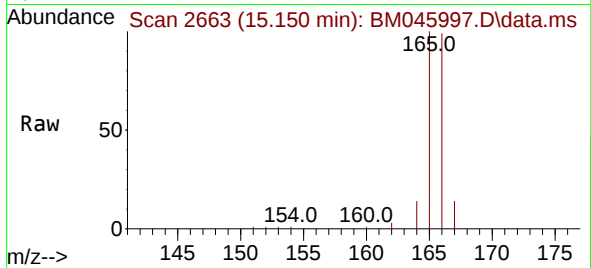
Tgt Ion:153 Resp: 15901  
Ion Ratio Lower Upper  
153 100  
152 50.0 39.0 58.4  
154 87.9 69.4 104.2





#12  
Fluorene  
Concen: 0.725 ng/ul  
RT: 15.150 min Scan# 20  
Delta R.T. -0.009 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

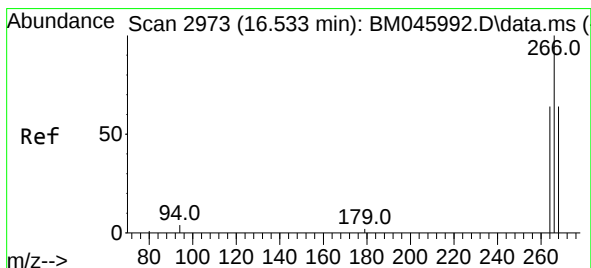
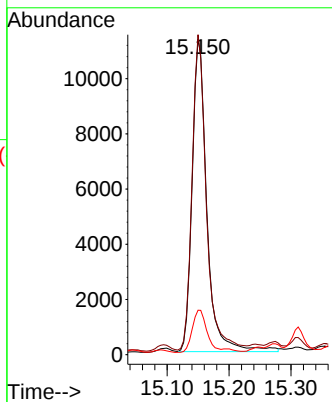
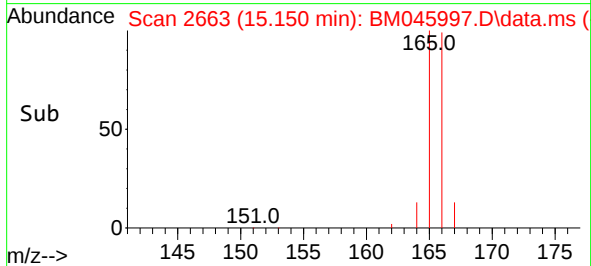
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



Tgt Ion:166 Resp: 1876  
Ion Ratio Lower Upper  
166 100  
165 101.4 79.7 119.5  
167 14.1 11.3 16.9

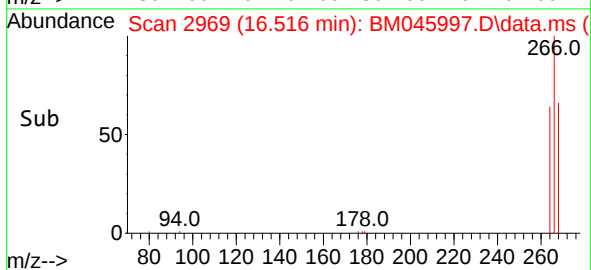
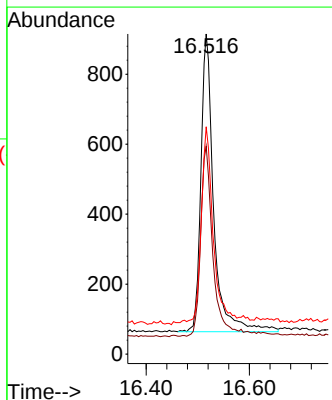
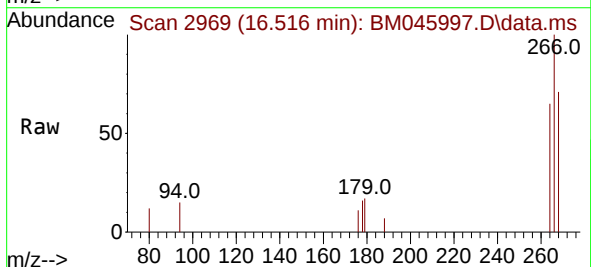
Manual Integrations  
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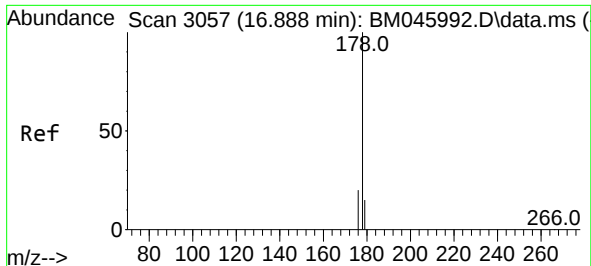
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#14  
Pentachlorophenol  
Concen: 0.517 ng/ul  
RT: 16.516 min Scan# 2969  
Delta R.T. -0.017 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

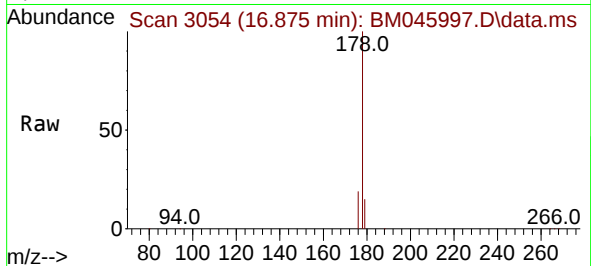
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Ion Ratio Lower Upper  
266 100  
264 63.1 47.9 71.9  
268 60.5 50.9 76.3





#15  
Phenanthrene  
Concen: 5.784 ng/ul  
RT: 16.875 min Scan# 3054  
Delta R.T. -0.013 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

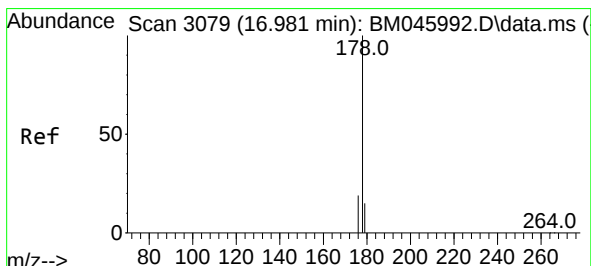
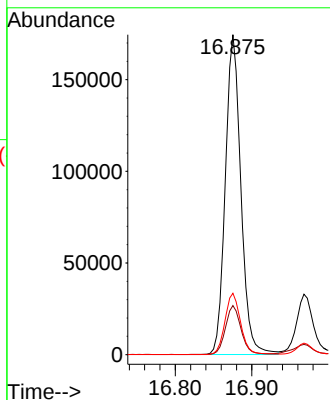
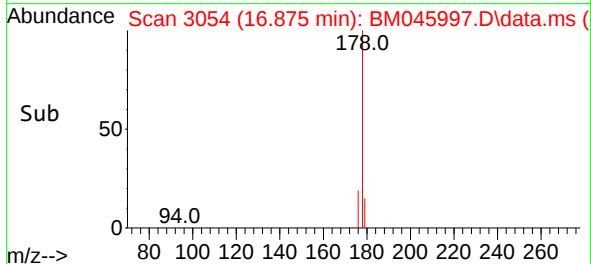
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



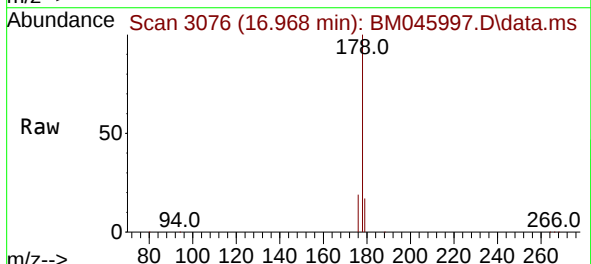
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176 19.2 15.6 23.4

Manual Integrations  
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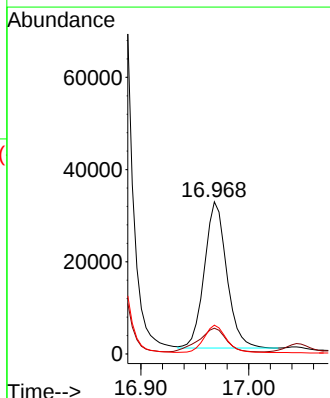
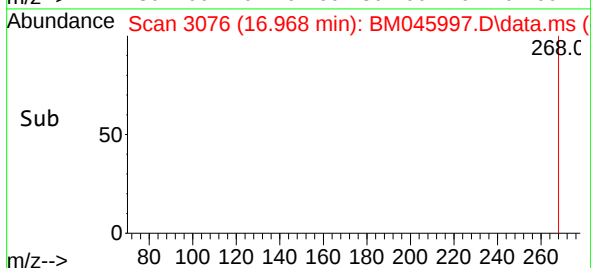
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

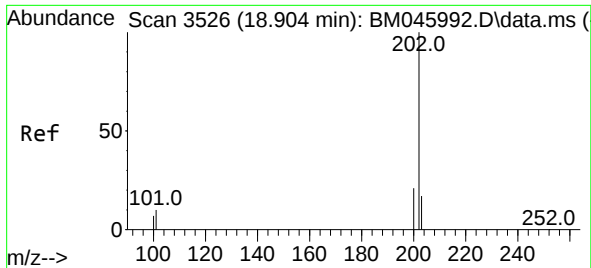


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Anthracene  
Concen: 1.260 ng/ul  
RT: 16.968 min Scan# 3076  
Delta R.T. -0.013 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17



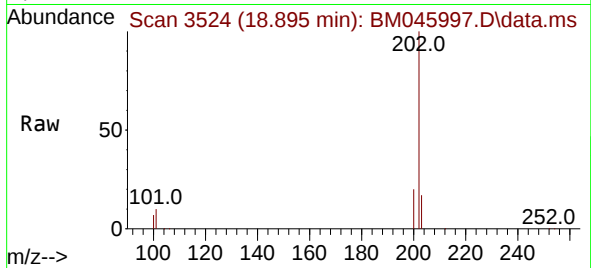
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Ion Ratio Lower Upper  
178 100  
179 16.9 13.1 19.7  
176 19.0 15.5 23.3





#19  
Fluoranthene  
Concen: 8.373 ng/ul  
RT: 18.895 min Scan# 3524  
Delta R.T. -0.009 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

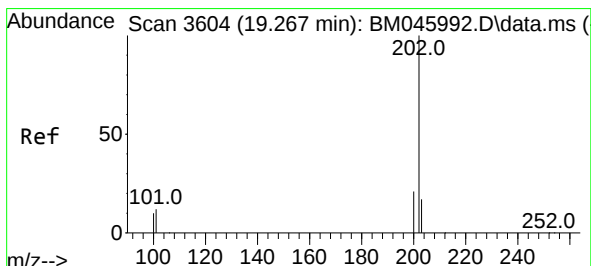
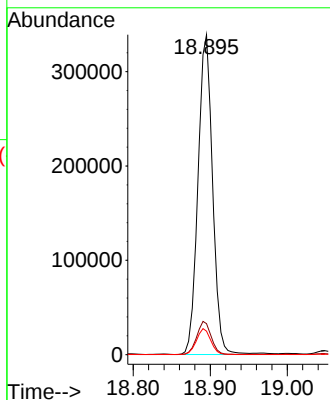
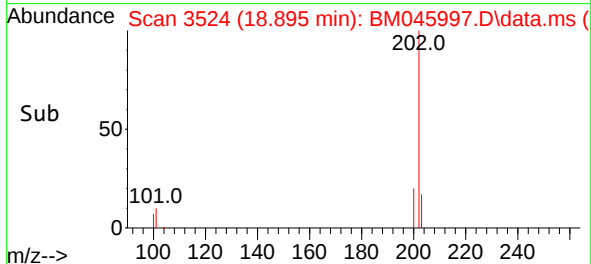
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



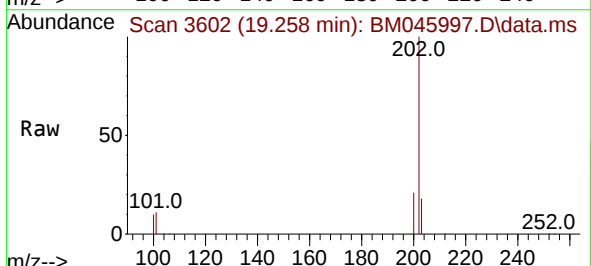
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100 7.4 7.0 10.6

Manual Integrations  
APPROVED

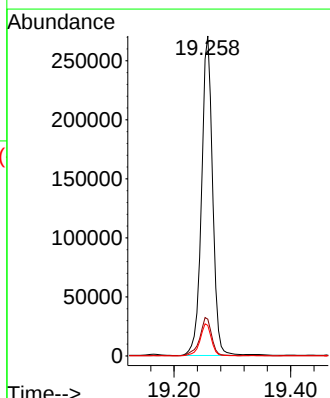
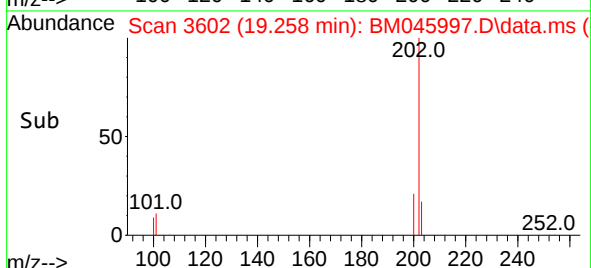
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024

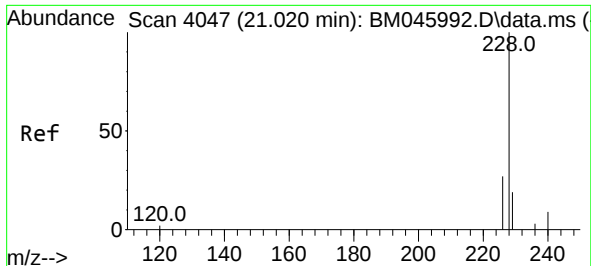


#20  
Pyrene  
Concen: 6.474 ng/ul  
RT: 19.258 min Scan# 3602  
Delta R.T. -0.009 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17



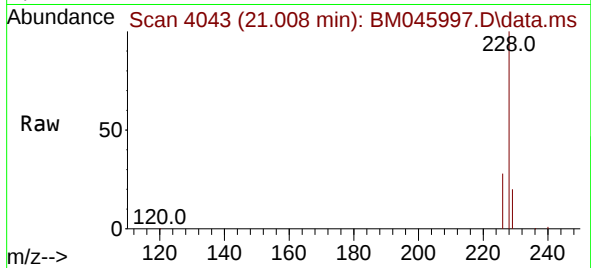
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Ion Ratio Lower Upper  
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101 11.5 10.6 16.0  
100 9.5 9.1 13.7





#21  
Benzo(a)anthracene  
Concen: 4.119 ng/ul  
RT: 21.008 min Scan# 4047  
Delta R.T. -0.012 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

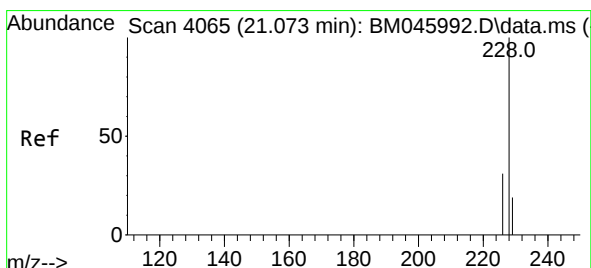
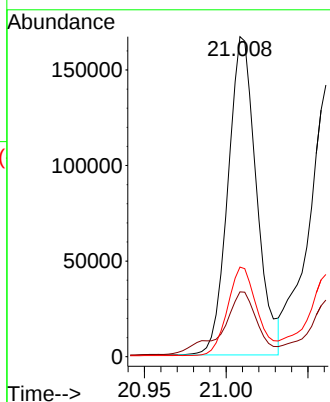
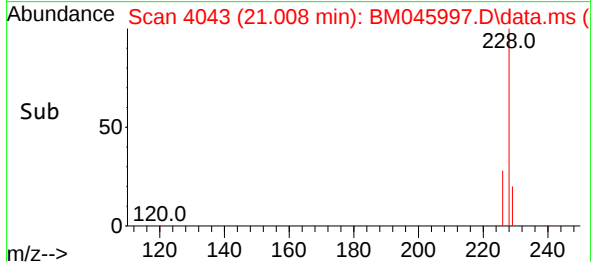
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



Tgt Ion:228 Resp: 20183  
Ion Ratio Lower Upper  
228 100  
229 20.3 15.7 23.5  
226 28.0 22.0 33.0

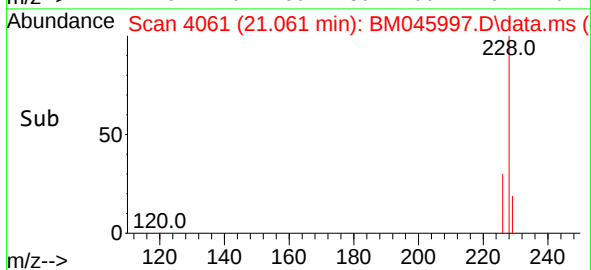
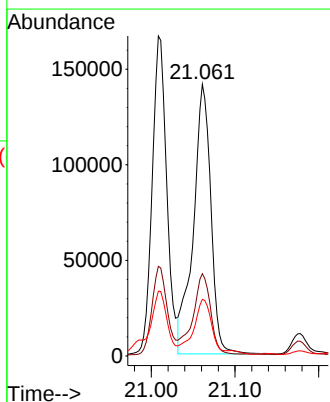
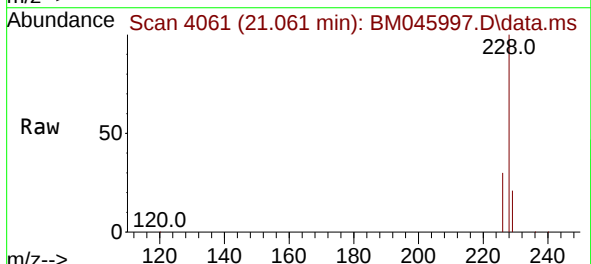
Manual Integrations  
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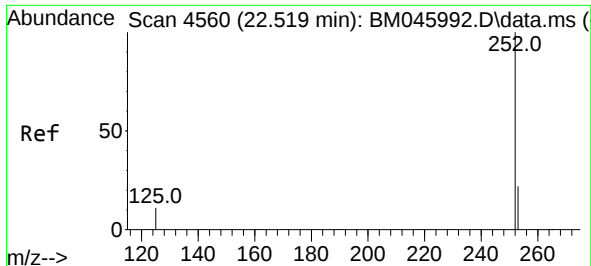
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#22  
Chrysene  
Concen: 3.857 ng/ul  
RT: 21.061 min Scan# 4061  
Delta R.T. -0.012 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

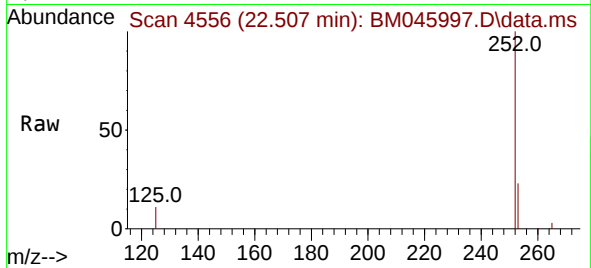
Tgt Ion:228 Resp: 205783  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.5 36.7  
229 20.9 16.2 24.2





#24  
Benzo(b)fluoranthene  
Concen: 4.895 ng/ul m  
RT: 22.507 min Scan# 4556  
Delta R.T. -0.012 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

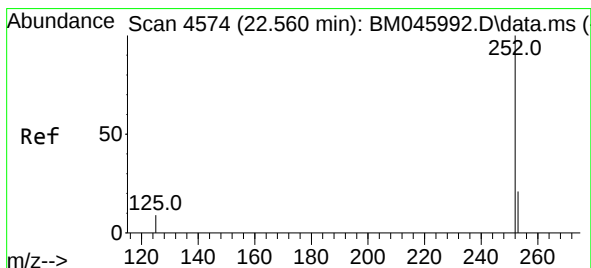
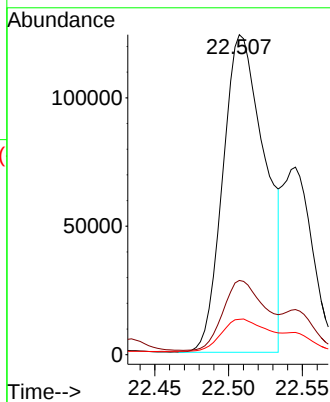
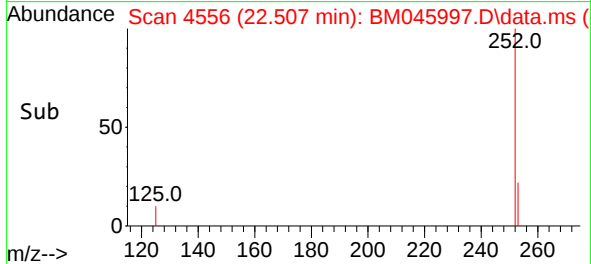
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



Tgt Ion:252 Resp: 245072  
Ion Ratio Lower Upper  
252 100  
253 23.2 0.0 63.6  
125 11.1 0.0 35.8

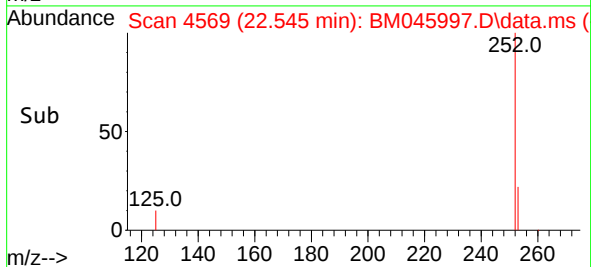
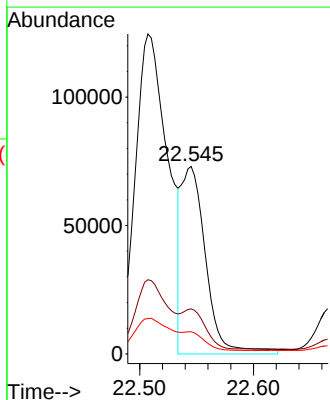
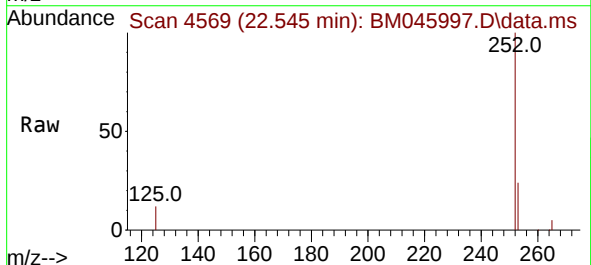
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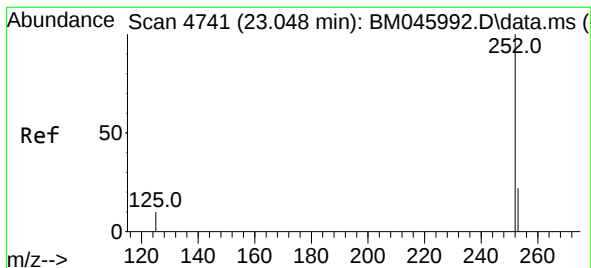
Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#25  
Benzo(k)fluoranthene  
Concen: 1.991 ng/ul m  
RT: 22.545 min Scan# 4569  
Delta R.T. -0.015 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

Tgt Ion:252 Resp: 109555  
Ion Ratio Lower Upper  
252 100  
253 24.1 25.0 37.6#  
125 11.9 14.2 21.2#





#26

Benzo(a)pyrene

Concen: 2.366 ng/ul

RT: 23.036 min Scan# 41

Delta R.T. -0.012 min

Lab File: BM045997.D

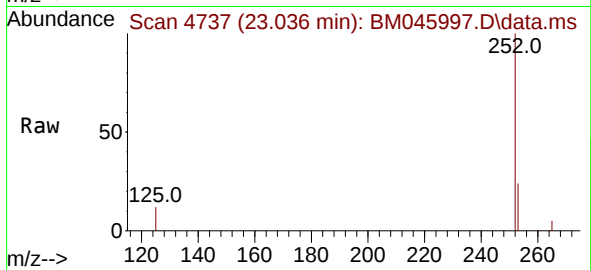
Acq: 12 Jun 2024 14:17

Instrument :

BNM\_M

ClientSampleId :

A4C18MSD



Tgt Ion:252 Resp: 117774

Ion Ratio Lower Upper

252 100

253 24.1 28.8 43.2

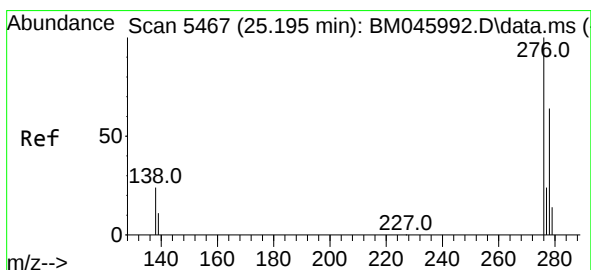
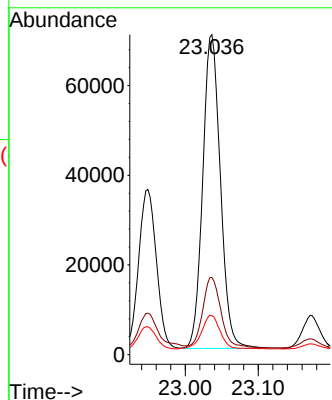
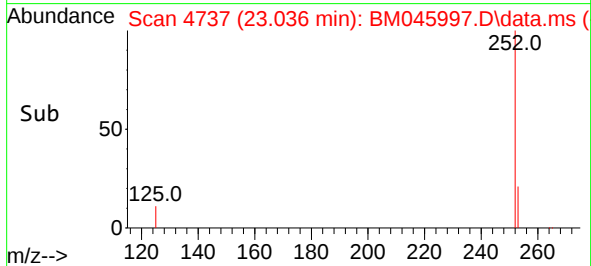
125 12.2 17.3 25.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/13/2024

Supervised By :mohammad ahmed 06/15/2024



#27

Indeno(1,2,3-cd)pyrene

Concen: 1.451 ng/ul

RT: 25.178 min Scan# 5462

Delta R.T. -0.017 min

Lab File: BM045997.D

Acq: 12 Jun 2024 14:17

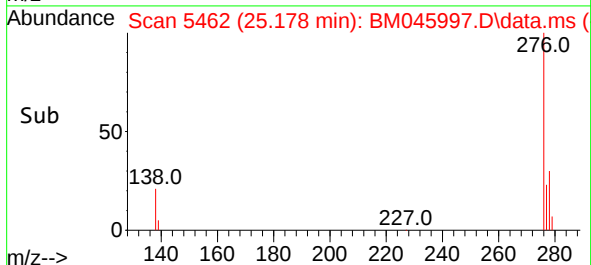
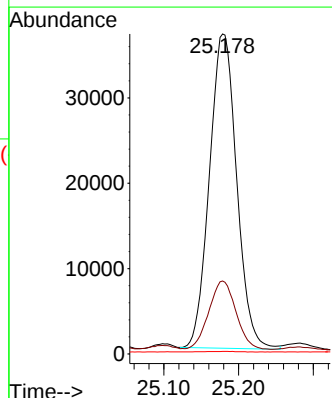
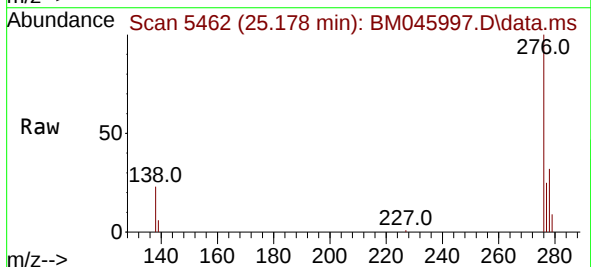
Tgt Ion:276 Resp: 93415

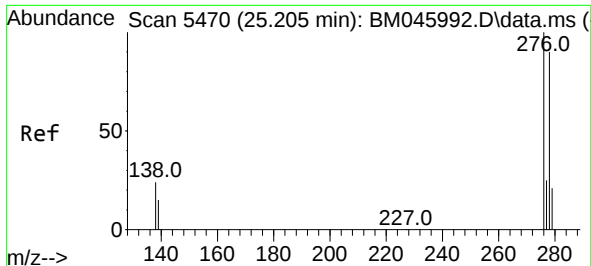
Ion Ratio Lower Upper

276 100

138 21.8 20.7 31.1

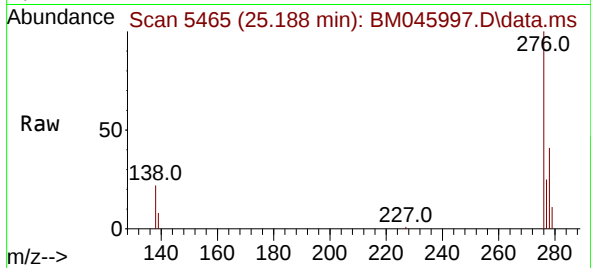
227 0.3 0.2 0.2





#28  
Dibenzo(a,h)anthracene  
Concen: 0.680 ng/ul  
RT: 25.188 min Scan# 5470  
Delta R.T. -0.017 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17

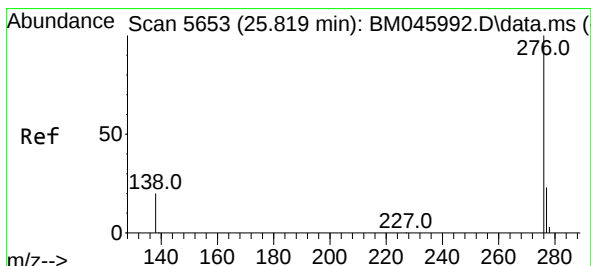
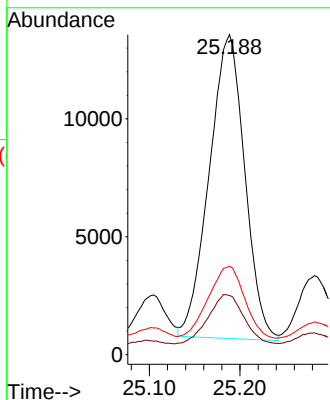
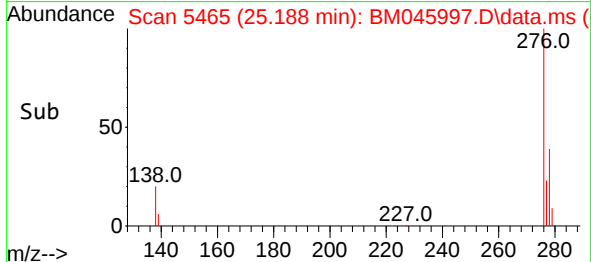
Instrument :  
BNA\_M  
ClientSampleId :  
A4C18MSD



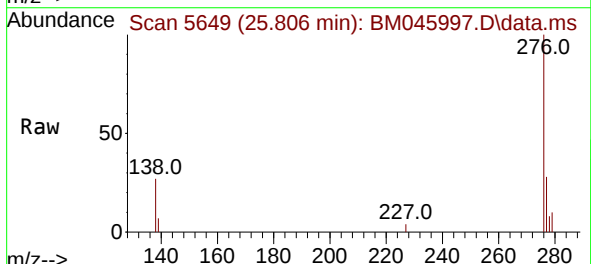
Tgt Ion:278 Resp: 35020  
Ion Ratio Lower Upper  
278 100  
139 18.5 16.6 25.0  
279 27.7 24.6 37.0

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 06/13/2024  
Supervised By :mohammad ahmed 06/15/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.281 ng/ul  
RT: 25.806 min Scan# 5649  
Delta R.T. -0.013 min  
Lab File: BM045997.D  
Acq: 12 Jun 2024 14:17



Tgt Ion:276 Resp: 15615  
Ion Ratio Lower Upper  
276 100  
138 26.6 21.0 31.4  
277 28.1 20.5 30.7

