

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM122624\  
 Data File : BM049233.D  
 Acq On : 26 Dec 2024 19:21  
 Operator : RC/JU  
 Sample : P5333-04DL 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E2907DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 12/27/2024  
 Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 26 21:59:29 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM121824.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Dec 26 11:35:38 2024

Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.544  | 152  | 6040     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.308 | 136  | 18091    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.182 | 164  | 10440    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 16.929 | 188  | 22747    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.135 | 240  | 19044    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.288 | 264  | 20684    | 0.400 | ng/ul  | # 0.00   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.139  | 96   | 6616     | 0.950 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 11.909 | 152  | 1375     | 0.057 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 18.968 | 212  | 2539     | 0.047 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 5) Naphthalene              | 10.352 | 128  | 4511     | 0.100 | ng/ul# | 95       |
| 7) 2-Methylnaphthalene      | 11.986 | 142  | 2304     | 0.080 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.206 | 142  | 1678     | 0.057 | ng/ul  | 97       |
| 10) Acenaphthylene          | 13.899 | 152  | 919      | 0.021 | ng/ul# | 69       |
| 11) Acenaphthene            | 14.246 | 153  | 5838     | 0.185 | ng/ul  | 99       |
| 12) Fluorene                | 15.236 | 166  | 5077     | 0.142 | ng/ul  | 99       |
| 15) Phenanthrene            | 16.971 | 178  | 147054   | 2.475 | ng/ul  | 98       |
| 16) Anthracene              | 17.064 | 178  | 10185    | 0.187 | ng/ul  | 97       |
| 19) Fluoranthene            | 18.996 | 202  | 184573   | 2.681 | ng/ul  | 99       |
| 20) Pyrene                  | 19.359 | 202  | 140945   | 1.919 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.120 | 228  | 51846    | 0.783 | ng/ul  | 98       |
| 22) Chrysene                | 21.170 | 228  | 66446    | 0.935 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 22.651 | 252  | 79753m   | 1.207 | ng/ul  |          |
| 25) Benzo(k)fluoranthene    | 22.689 | 252  | 29828m   | 0.411 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.192 | 252  | 43458m   | 0.686 | ng/ul  |          |
| 27) Indeno(1,2,3-cd)pyrene  | 25.417 | 276  | 37580    | 0.419 | ng/ul# | 92       |
| 28) Dibenzo(a,h)anthracene  | 25.427 | 278  | 8952     | 0.128 | ng/ul# | 91       |
| 29) Benzo(g,h,i)perylene    | 26.068 | 276  | 36408    | 0.505 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

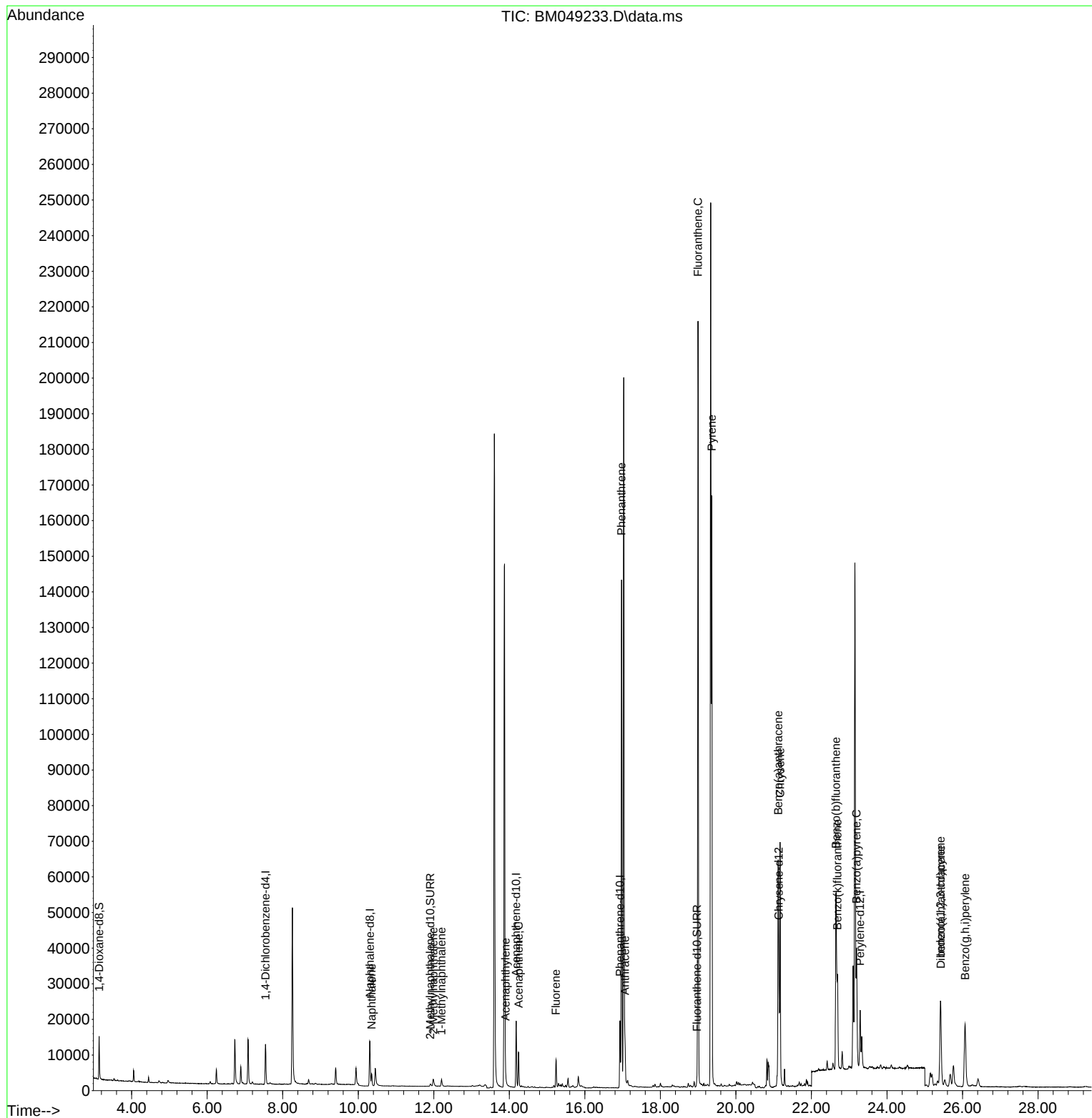
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM122624\  
Data File : BM049233.D  
Acq On : 26 Dec 2024 19:21  
Operator : RC/JU  
Sample : P5333-04DL 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

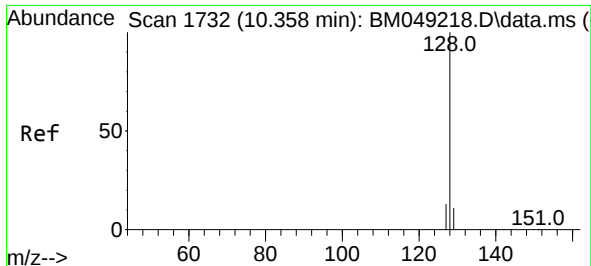
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL

Quant Time: Dec 26 21:59:29 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM121824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 26 11:35:38 2024  
Response via : Initial Calibration

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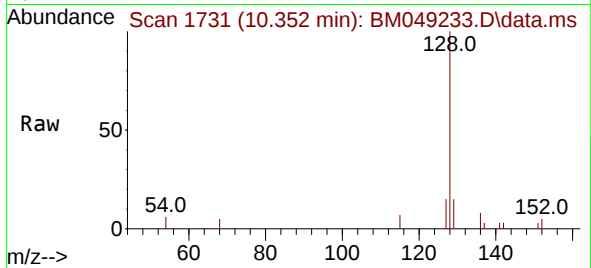
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024





#5  
Naphthalene  
Concen: 0.100 ng/ul  
RT: 10.352 min Scan# 1731  
Delta R.T. -0.005 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

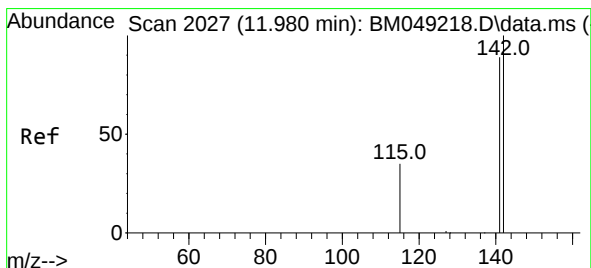
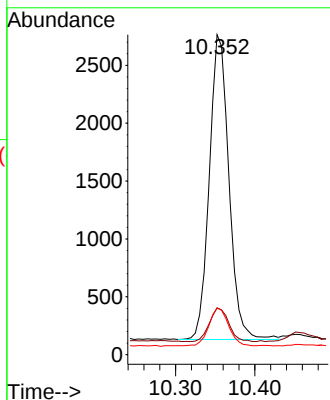
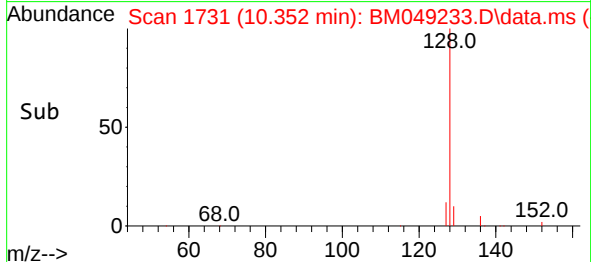
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



Tgt Ion:128 Resp: 451  
Ion Ratio Lower Upper  
128 100  
129 14.6 9.7 14.5  
127 14.6 10.6 16.0

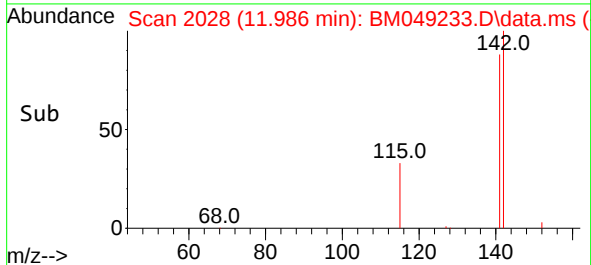
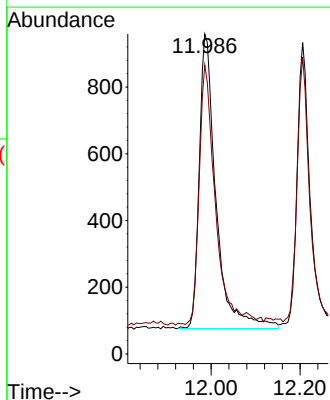
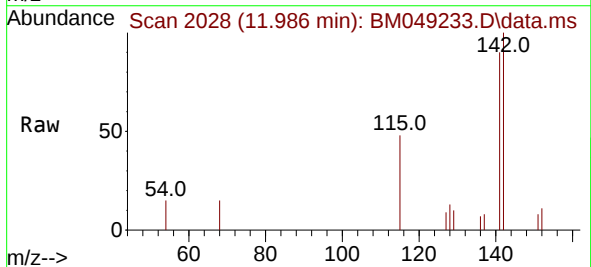
Manual Integrations  
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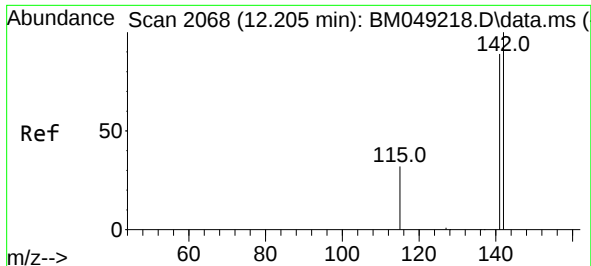
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



#7  
2-Methylnaphthalene  
Concen: 0.080 ng/ul  
RT: 11.986 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

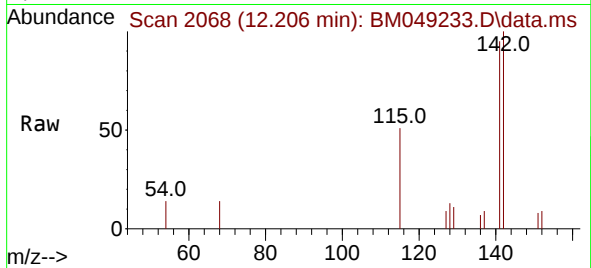
Tgt Ion:142 Resp: 2304  
Ion Ratio Lower Upper  
142 100  
141 85.8 71.7 107.5





#8  
1-Methylnaphthalene  
Concen: 0.057 ng/ul  
RT: 12.206 min Scan# 2068  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

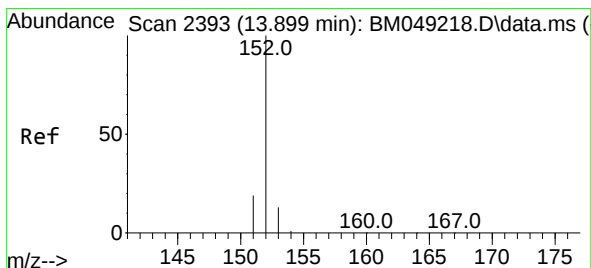
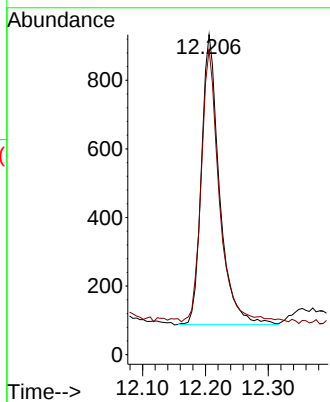
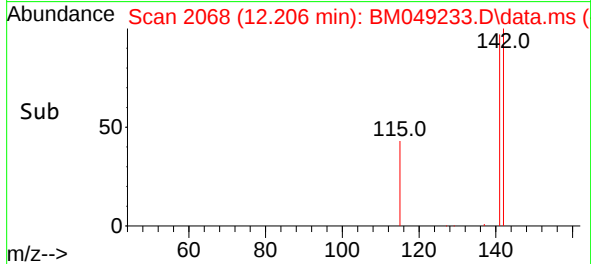
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



Tgt Ion:142 Resp: 1678  
Ion Ratio Lower Upper  
142 100  
141 93.9 72.7 109.1

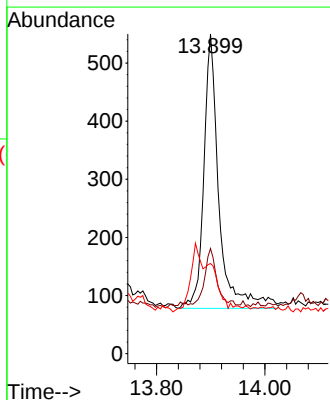
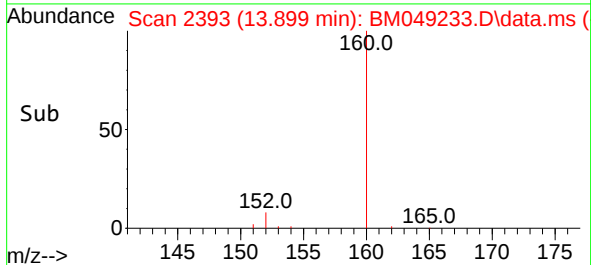
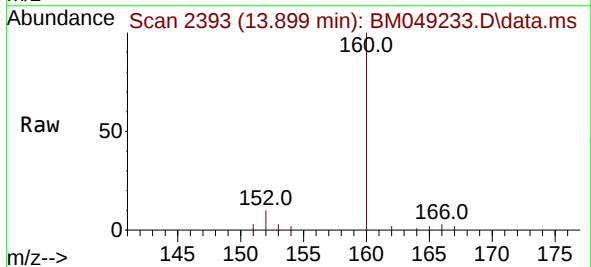
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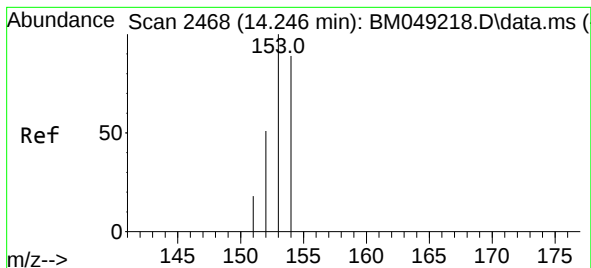
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



#10  
Acenaphthylene  
Concen: 0.021 ng/ul  
RT: 13.899 min Scan# 2393  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

Tgt Ion:152 Resp: 919  
Ion Ratio Lower Upper  
152 100  
151 32.9 16.0 24.0#  
153 28.2 11.0 16.6#





#11

Acenaphthene

Concen: 0.185 ng/u1

RT: 14.246 min Scan# 2468

Delta R.T. 0.000 min

Lab File: BM049233.D

Acq: 26 Dec 2024 19:21

Instrument :

BNA\_M

ClientSampleId :

E2907DL

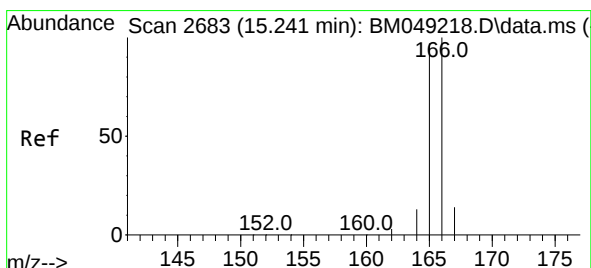
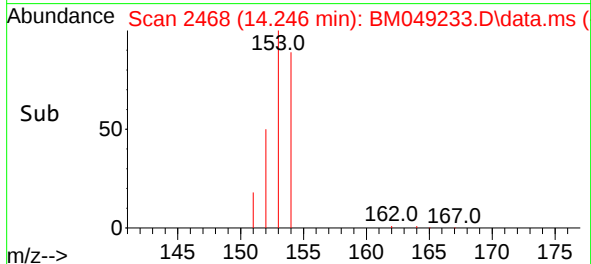
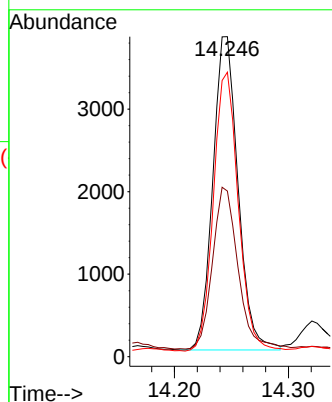
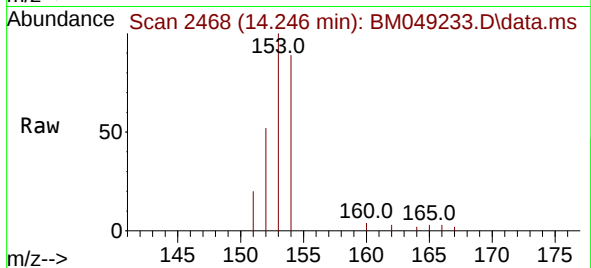
Tgt Ion:153 Resp: 5838

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100   |       |       |
| 152 | 51.8  | 40.7  | 61.1  |
| 154 | 88.9  | 70.8  | 106.2 |

Manual Integrations

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#12

Fluorene

Concen: 0.142 ng/u1

RT: 15.236 min Scan# 2682

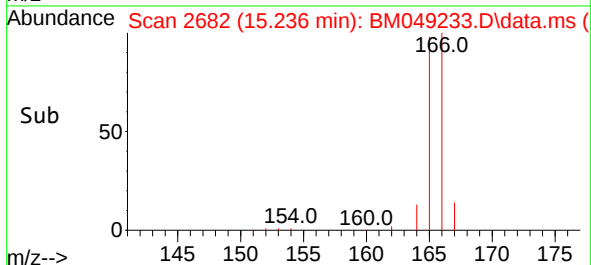
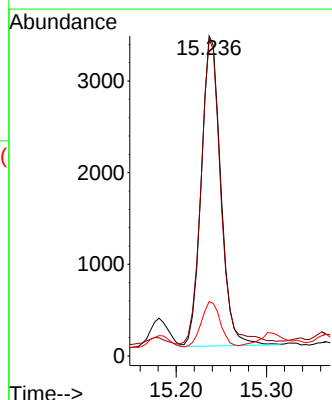
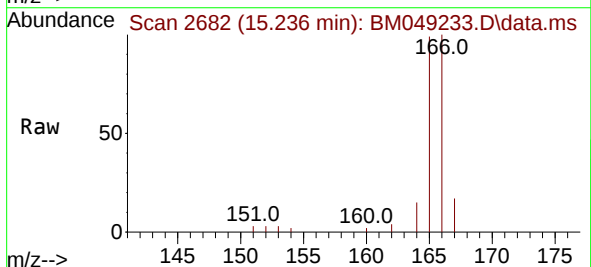
Delta R.T. -0.004 min

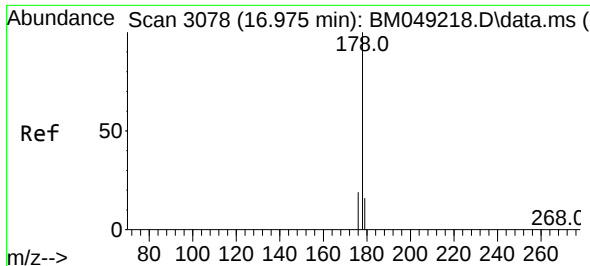
Lab File: BM049233.D

Acq: 26 Dec 2024 19:21

Tgt Ion:166 Resp: 5077

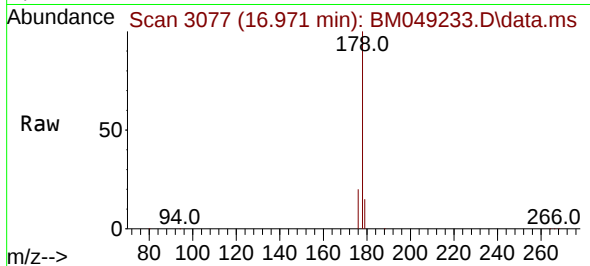
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 98.9  | 79.7  | 119.5 |
| 167 | 17.0  | 11.4  | 17.0  |





#15  
Phenanthrene  
Concen: 2.475 ng/u1  
RT: 16.971 min Scan# 3077  
Delta R.T. -0.004 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

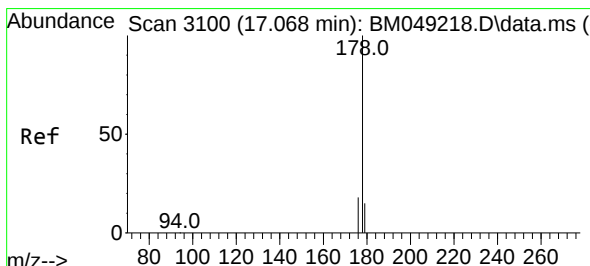
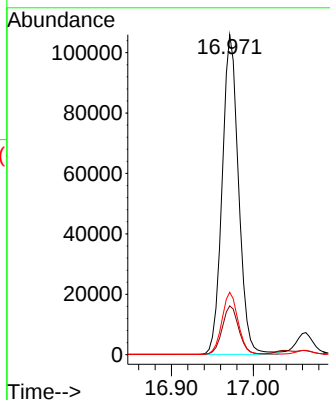
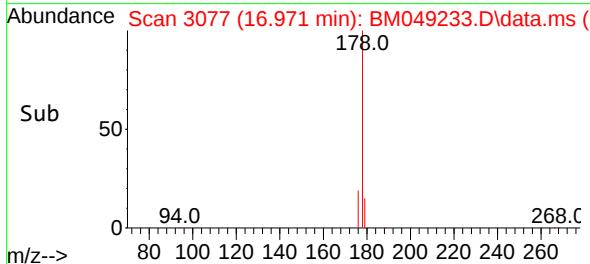
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



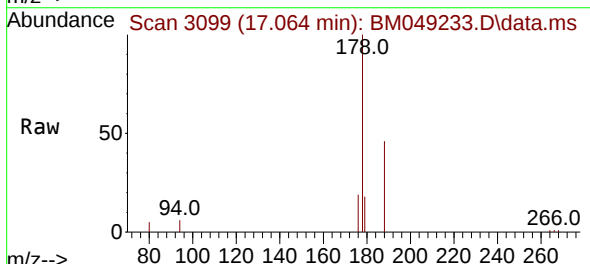
Tgt Ion:178 Resp: 147054  
Ion Ratio Lower Upper  
178 100  
179 15.2 13.0 19.4  
176 19.5 16.2 24.2

Manual Integrations  
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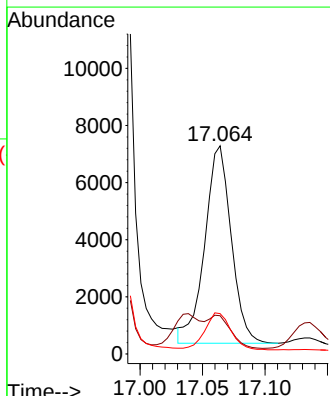
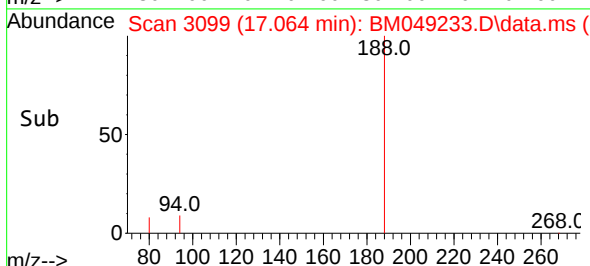
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024

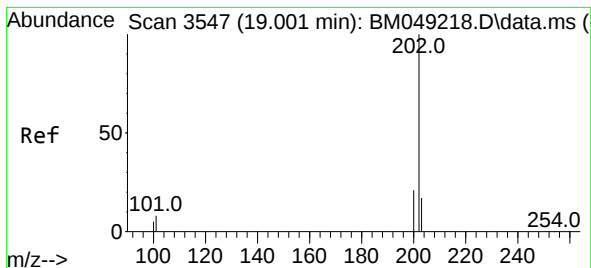


#16  
Anthracene  
Concen: 0.187 ng/u1  
RT: 17.064 min Scan# 3099  
Delta R.T. -0.004 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21



Tgt Ion:178 Resp: 10185  
Ion Ratio Lower Upper  
178 100  
179 18.4 12.9 19.3  
176 19.3 15.3 22.9





#19

Fluoranthene

Concen: 2.681 ng/u1

RT: 18.996 min Scan# 3547

Delta R.T. -0.004 min

Lab File: BM049233.D

Acq: 26 Dec 2024 19:21

Instrument :

BNA\_M

ClientSampleId :

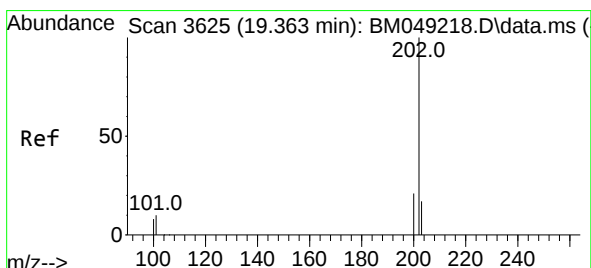
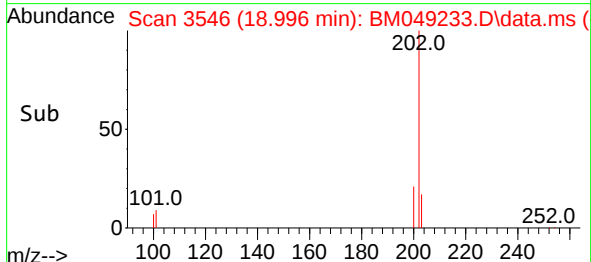
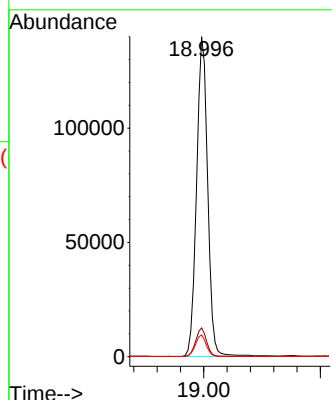
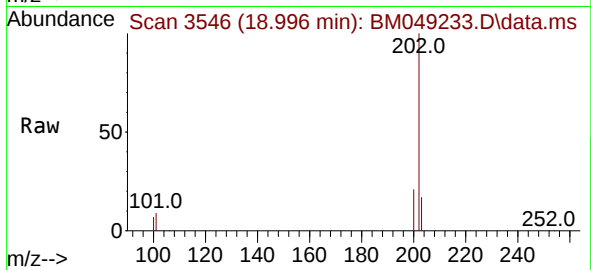
E2907DL

Tgt Ion:202 Resp: 18457  
Ion Ratio Lower Upper  
202 100  
101 9.0 7.6 11.4  
100 6.8 5.5 8.3

Manual Integrations

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Supervised By :mohammad ahmed 12/30/2024



#20

Pyrene

Concen: 1.919 ng/u1

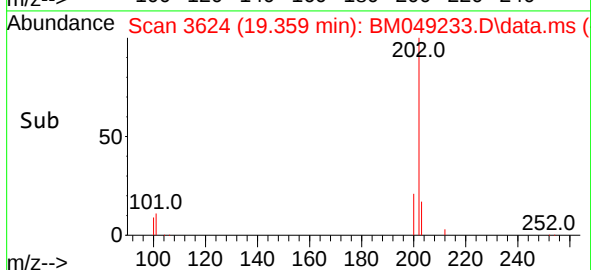
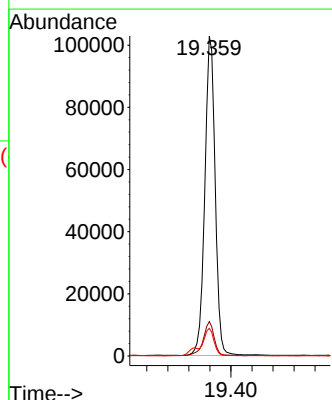
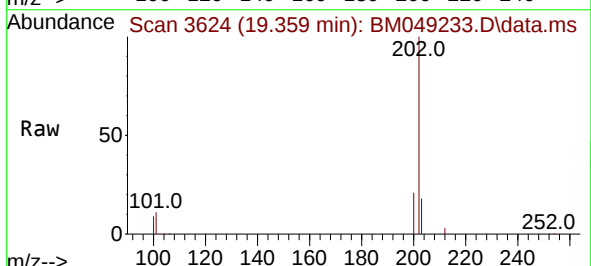
RT: 19.359 min Scan# 3624

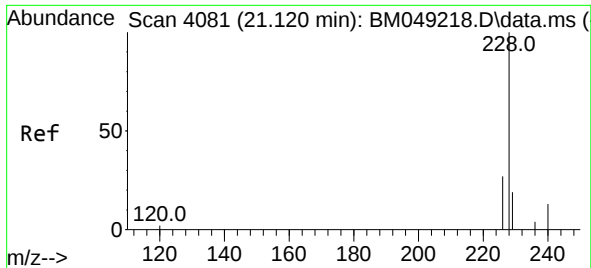
Delta R.T. -0.004 min

Lab File: BM049233.D

Acq: 26 Dec 2024 19:21

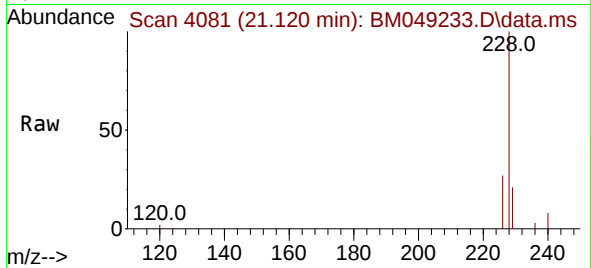
Tgt Ion:202 Resp: 140945  
Ion Ratio Lower Upper  
202 100  
101 10.7 8.9 13.3  
100 8.6 6.9 10.3





#21  
Benzo(a)anthracene  
Concen: 0.783 ng/ul  
RT: 21.120 min Scan# 4081  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

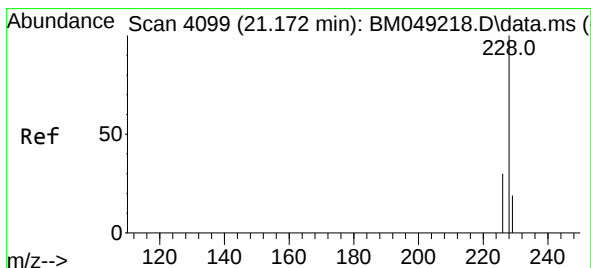
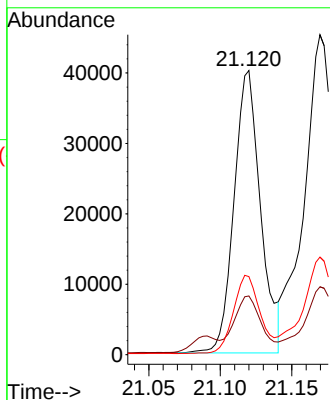
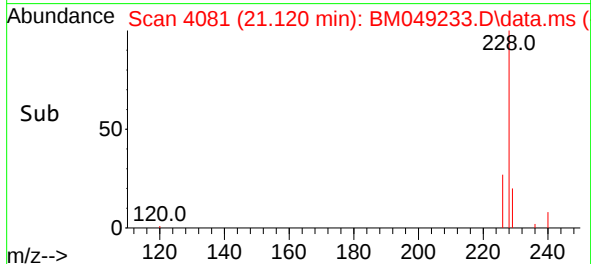
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



Tgt Ion:228 Resp: 51840  
Ion Ratio Lower Upper  
228 100  
229 20.6 15.9 23.9  
226 27.5 22.6 34.0

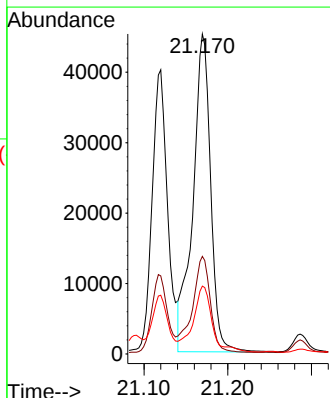
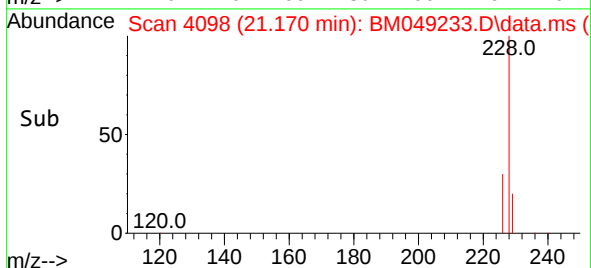
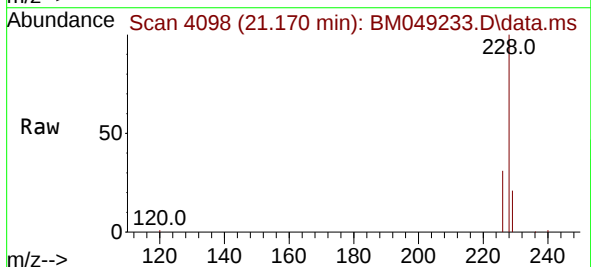
Manual Integrations  
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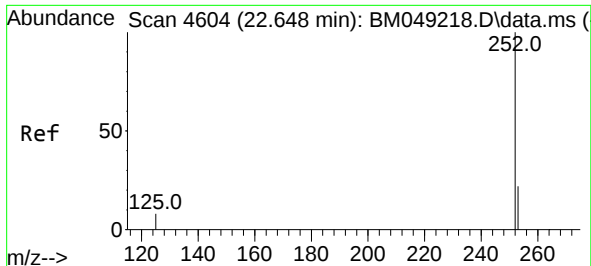
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



#22  
Chrysene  
Concen: 0.935 ng/ul  
RT: 21.170 min Scan# 4098  
Delta R.T. -0.003 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

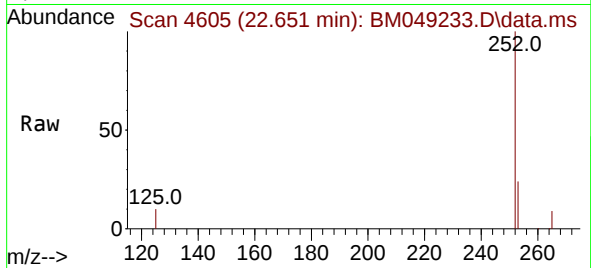
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Ion Ratio Lower Upper  
228 100  
226 30.5 24.1 36.1  
229 21.2 15.8 23.8





#24  
Benzo(b)fluoranthene  
Concen: 1.207 ng/ul m  
RT: 22.651 min Scan# 4605  
Delta R.T. 0.003 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

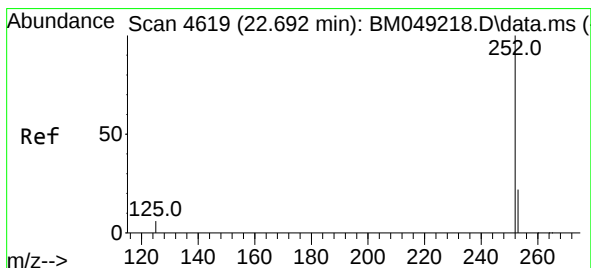
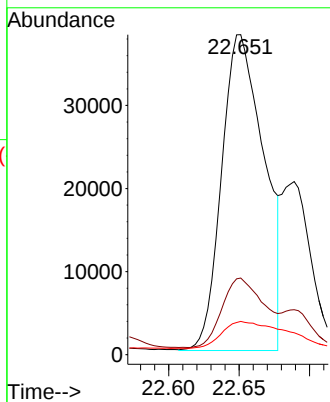
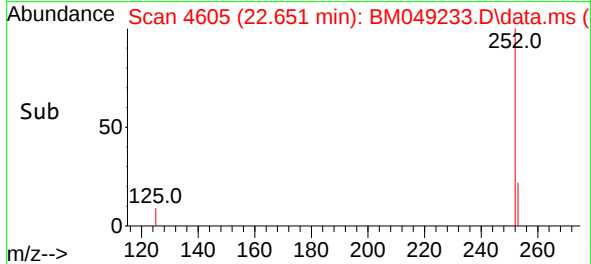
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



Tgt Ion:252 Resp: 7975  
Ion Ratio Lower Upper  
252 100  
253 24.0 0.0 52.6  
125 10.4 0.0 30.8

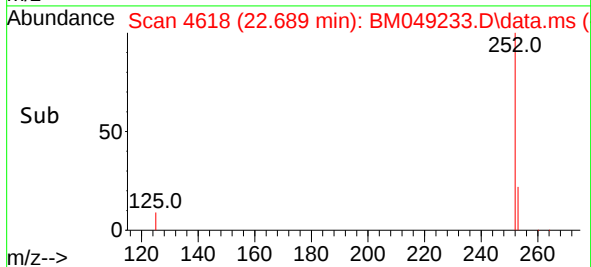
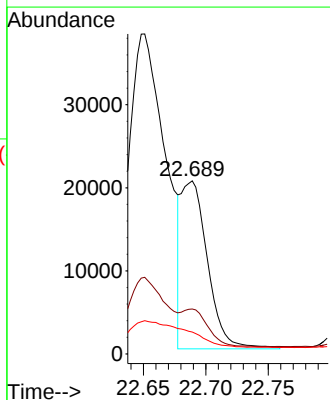
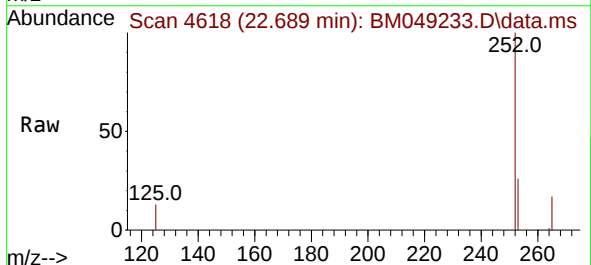
Manual Integrations  
APPROVED

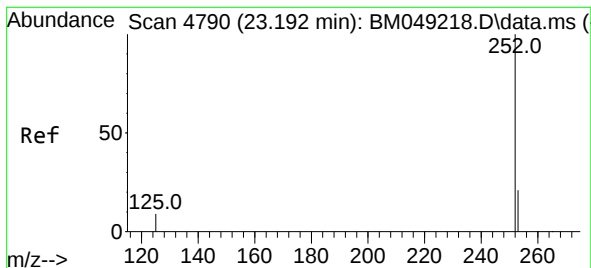
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



#25  
Benzo(k)fluoranthene  
Concen: 0.411 ng/ul m  
RT: 22.689 min Scan# 4618  
Delta R.T. -0.003 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

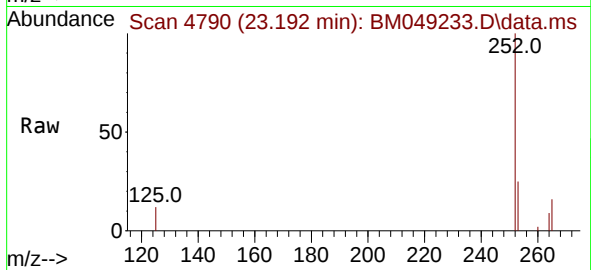
Tgt Ion:252 Resp: 29828  
Ion Ratio Lower Upper  
252 100  
253 26.0 21.3 31.9  
125 12.7 12.6 18.8





#26  
Benzo(a)pyrene  
Concen: 0.686 ng/ul m  
RT: 23.192 min Scan# 4790  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

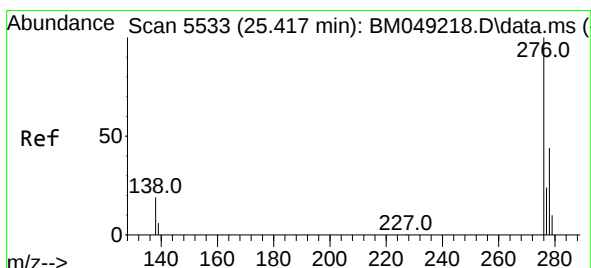
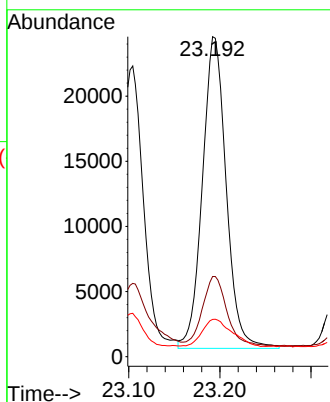
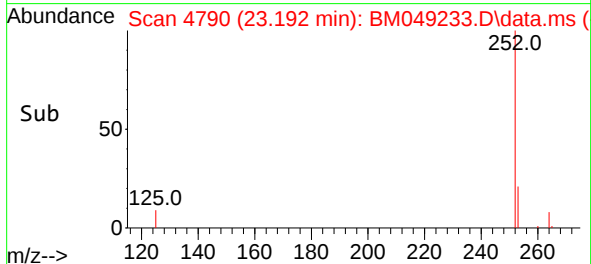
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



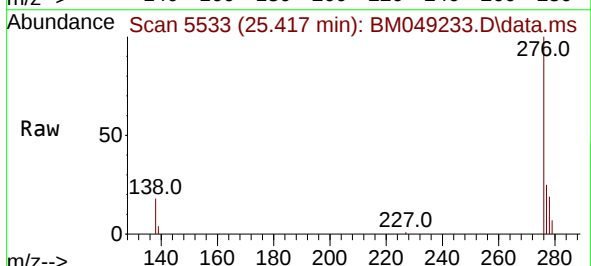
Tgt Ion:252 Resp: 43458  
Ion Ratio Lower Upper  
252 100  
253 25.0 22.4 33.6  
125 11.6 14.8 22.2

Manual Integrations  
APPROVED

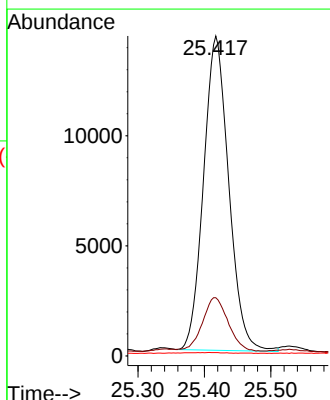
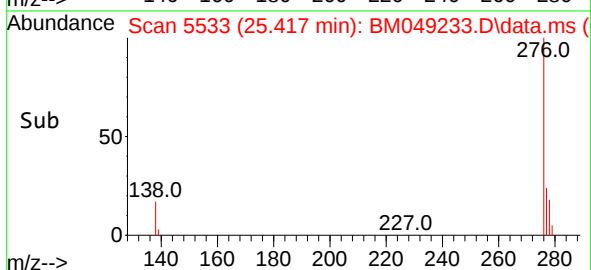
Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024

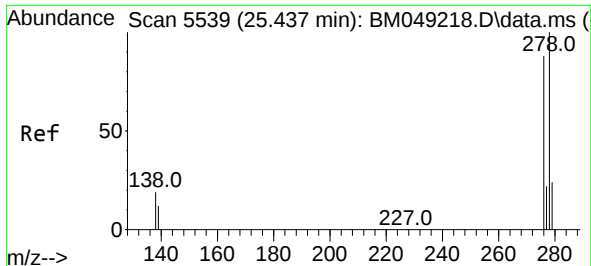


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.419 ng/ul  
RT: 25.417 min Scan# 5533  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21



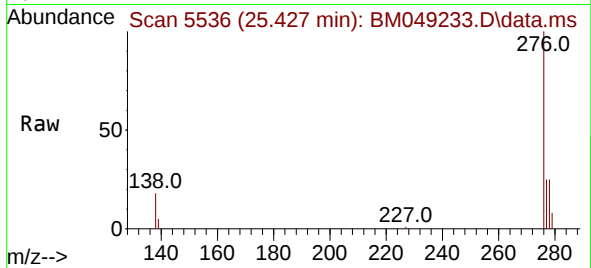
Tgt Ion:276 Resp: 37580  
Ion Ratio Lower Upper  
276 100  
138 17.8 17.4 26.2  
227 0.0 0.2 0.2





#28  
Dibenzo(a,h)anthracene  
Concen: 0.128 ng/ul  
RT: 25.427 min Scan# 51  
Delta R.T. -0.010 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

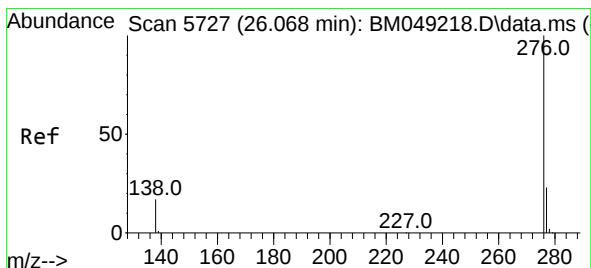
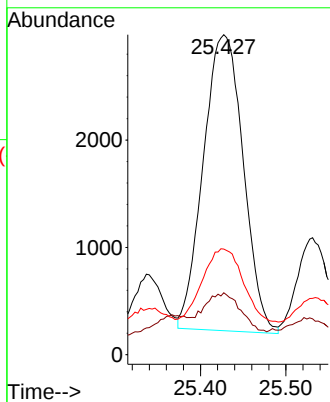
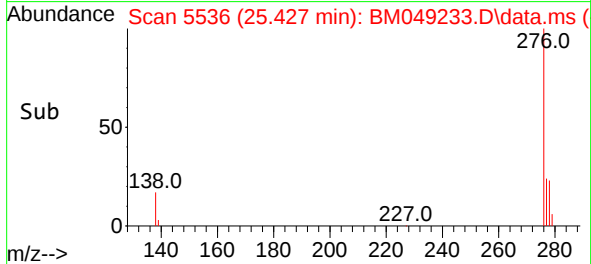
Instrument :  
BNA\_M  
ClientSampleId :  
E2907DL



Tgt Ion:278 Resp: 895  
Ion Ratio Lower Upper  
278 100  
139 19.4 13.5 20.3  
279 33.0 21.5 32.3

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 12/27/2024  
Supervised By :mohammad ahmed 12/30/2024



#29  
Benzo(g,h,i)perylene  
Concen: 0.505 ng/ul  
RT: 26.068 min Scan# 5727  
Delta R.T. 0.000 min  
Lab File: BM049233.D  
Acq: 26 Dec 2024 19:21

Tgt Ion:276 Resp: 36408  
Ion Ratio Lower Upper  
276 100  
138 18.8 16.7 25.1  
277 24.4 19.9 29.9

