

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM040325\  
 Data File : BM049812.D  
 Acq On : 03 Apr 2025 19:11  
 Operator : RC/JU  
 Sample : Q1706-03 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-02-040225

Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 04/04/2025  
 Supervised By :Jagrut Upadhyay 04/04/2025

Quant Time: Apr 04 01:01:25 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 13 14:55:34 2025  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.787  | 152  | 395265   | 20.000 | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.581 | 136  | 1396312  | 20.000 | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.427 | 164  | 897798   | 20.000 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.174 | 188  | 1714136  | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.403 | 240  | 1629694  | 20.000 | ng    | -0.02    |
| 86) Perylene-d12            | 24.409 | 264  | 1774416  | 20.000 | ng    | -0.03    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.369  | 112  | 443561   | 18.935 | ng    | -0.02    |
| 7) Phenol-d6                | 6.957  | 99   | 574572   | 19.545 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.940  | 82   | 322748   | 11.867 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.916 | 330  | 211820   | 20.205 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.051 | 172  | 817891   | 11.409 | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.792 | 244  | 1023686  | 10.585 | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.215 | 178  | 423486   | 4.449  | ng    | 99       |
| 72) Anthracene              | 17.304 | 178  | 200644   | 2.177  | ng    | 99       |
| 75) Fluoranthene            | 19.227 | 202  | 1042598  | 9.514  | ng    | 98       |
| 78) Pyrene                  | 19.592 | 202  | 1160602  | 10.193 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.392 | 228  | 684521   | 6.289  | ng    | 94       |
| 83) Chrysene                | 21.450 | 228  | 640724   | 6.209  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.791 | 276  | 439895   | 3.444  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 23.468 | 252  | 836720   | 7.001  | ng    | # 95     |
| 89) Benzo(k)fluoranthene    | 23.521 | 252  | 300509m  | 2.555  | ng    |          |
| 90) Benzo(a)pyrene          | 24.268 | 252  | 631605   | 6.292  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 28.844 | 276  | 443277   | 4.136  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

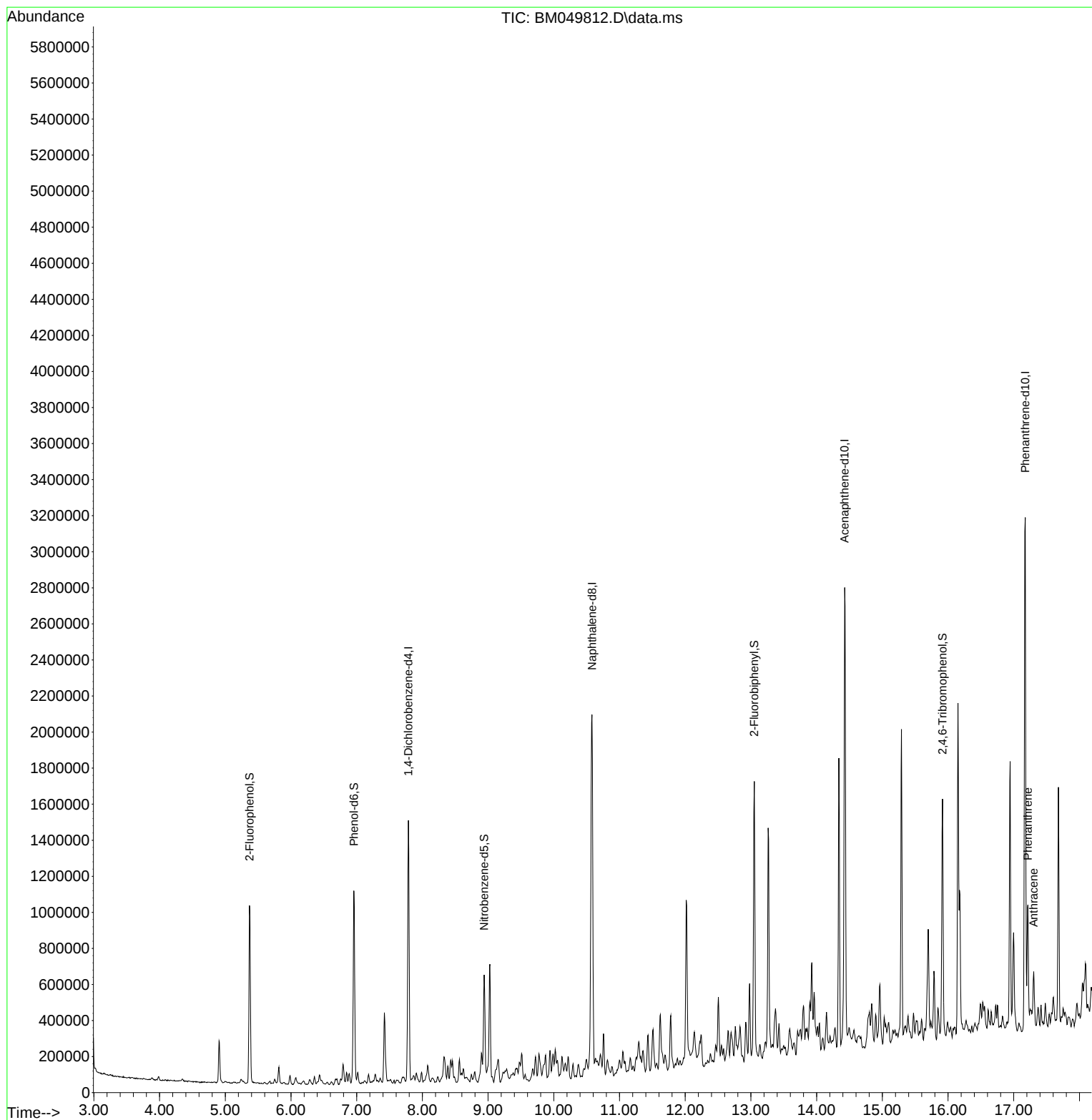
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM040325\  
Data File : BM049812.D  
Acq On : 03 Apr 2025 19:11  
Operator : RC/JU  
Sample : Q1706-03 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-02-040225

Quant Time: Apr 04 01:01:25 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 13 14:55:34 2025  
Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



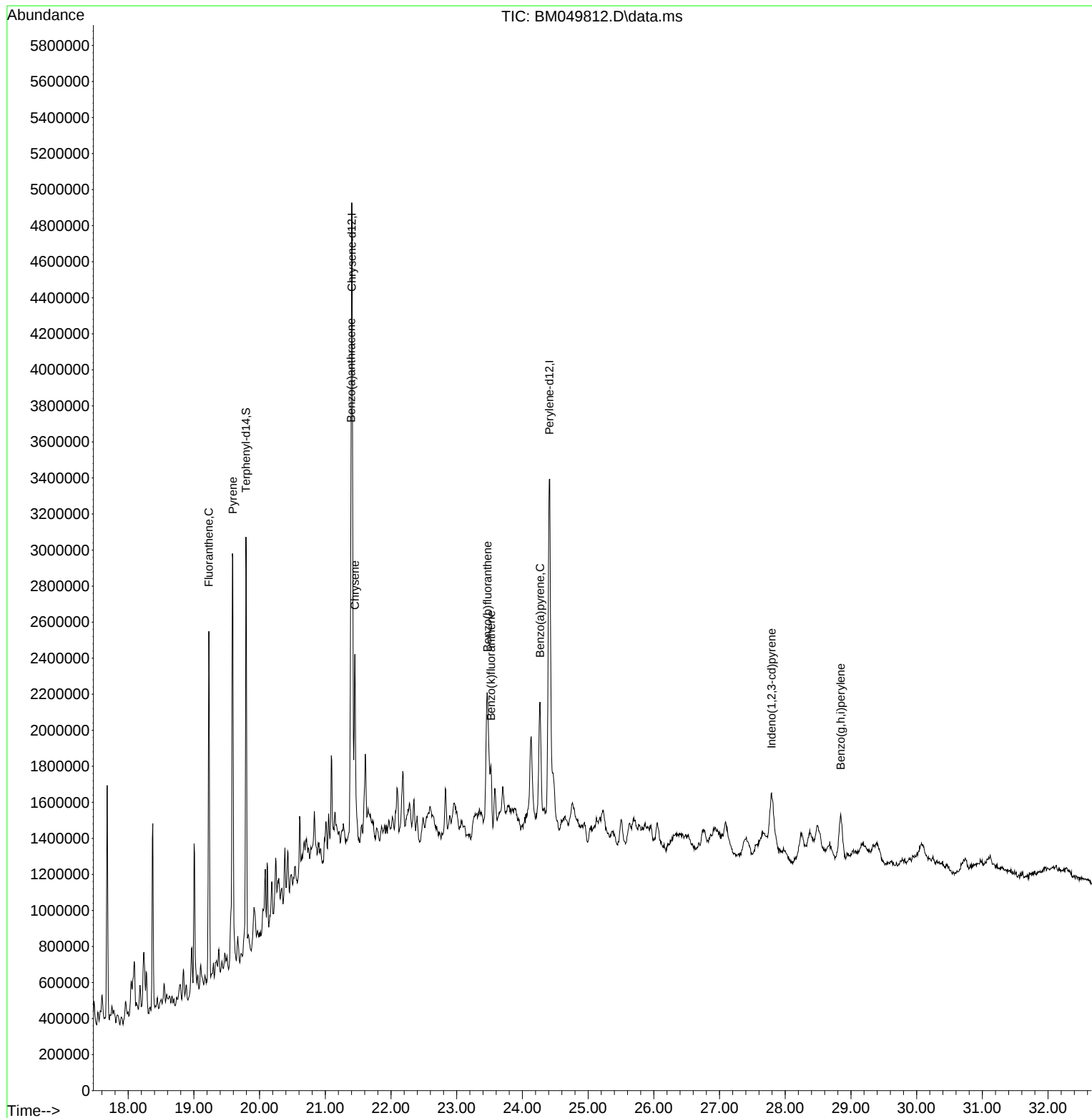
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Data File : BM049812.D  
Acq On : 03 Apr 2025 19:11  
Operator : RC/JU  
Sample : Q1706-03 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

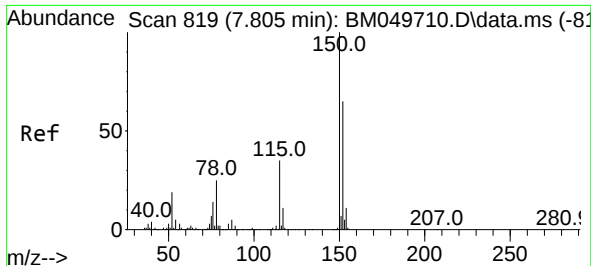
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BNA\_M  
ClientSampleId :  
PL-02-040225

Quant Time: Apr 04 01:01:25 2025  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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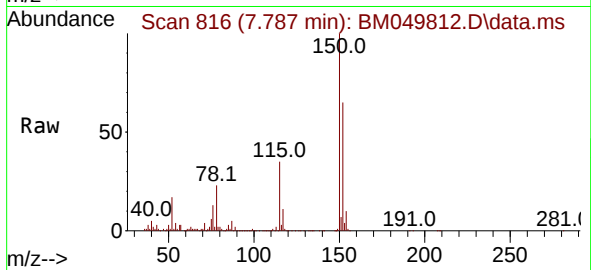
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.787 min Scan# 819  
Delta R.T. -0.018 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

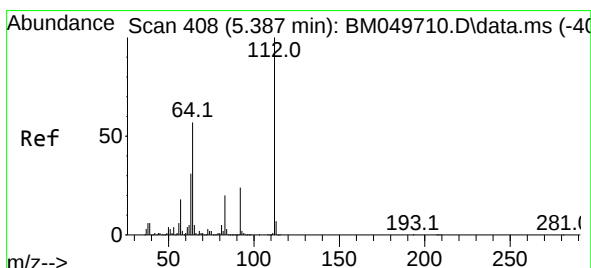
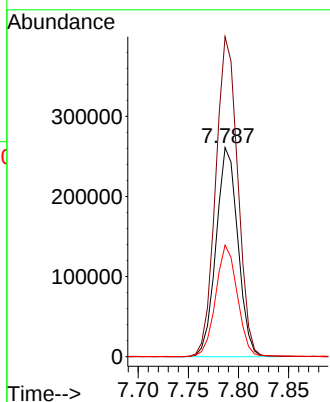
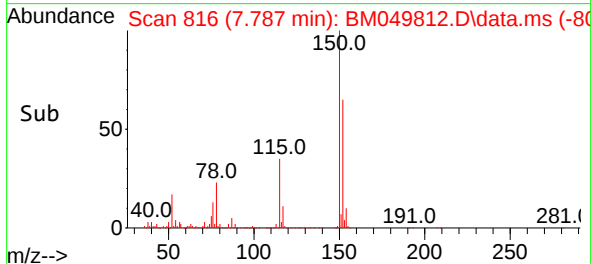
Instrument :  
BNA\_M  
ClientSampleId :  
PL-02-040225



Tgt Ion:152 Resp: 395268  
Ion Ratio Lower Upper  
152 100  
150 153.0 123.8 185.8  
115 53.3 43.0 64.6

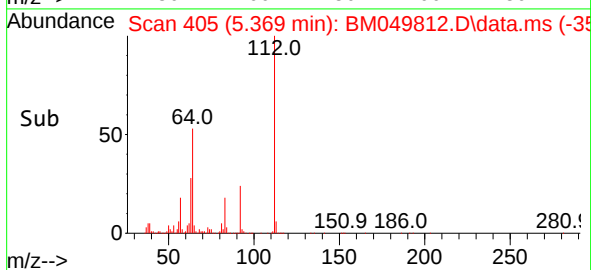
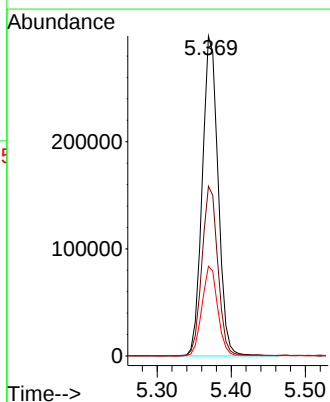
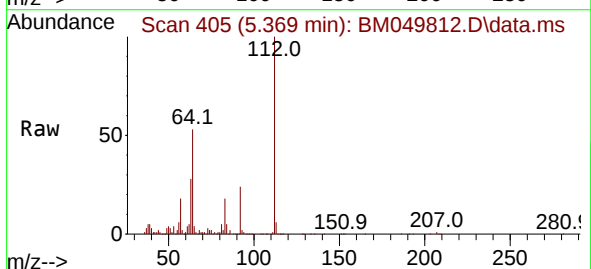
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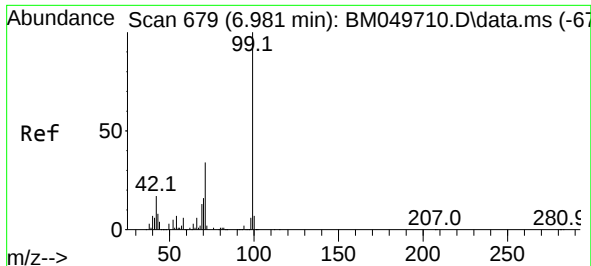
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#5  
2-Fluorophenol  
Concen: 18.935 ng  
RT: 5.369 min Scan# 405  
Delta R.T. -0.018 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

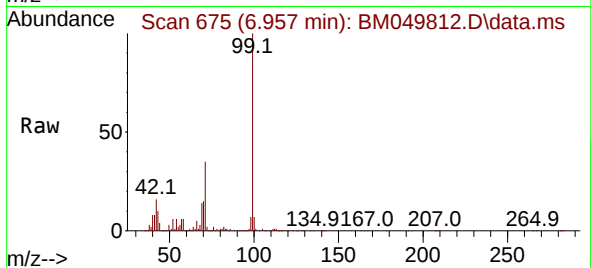
Tgt Ion:112 Resp: 443561  
Ion Ratio Lower Upper  
112 100  
64 53.0 45.3 67.9  
63 28.1 24.4 36.6





#7  
Phenol-d6  
Concen: 19.545 ng  
RT: 6.957 min Scan# 61  
Delta R.T. -0.024 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

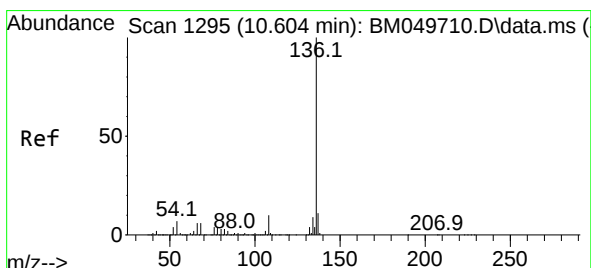
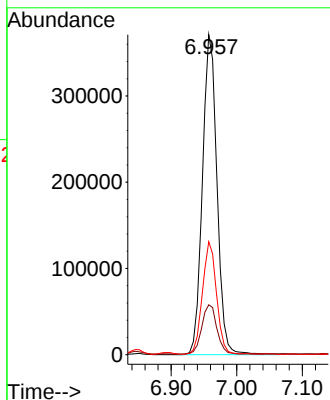
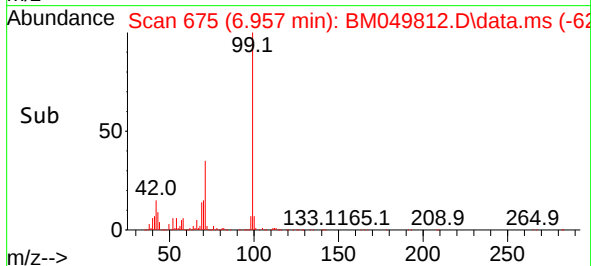
Instrument :  
BNA\_M  
ClientSampleId :  
PL-02-040225



Tgt Ion: 99 Resp: 574572  
Ion Ratio Lower Upper  
99 100  
42 15.6 13.6 20.4  
71 35.3 27.0 40.6

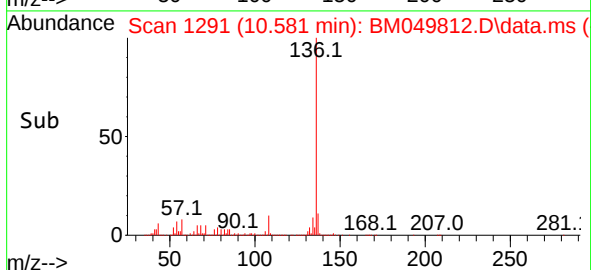
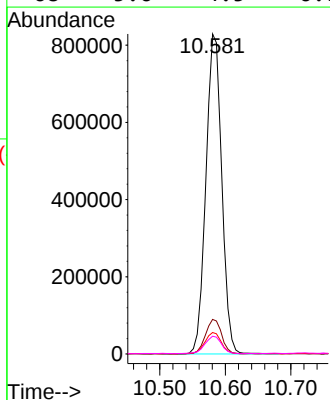
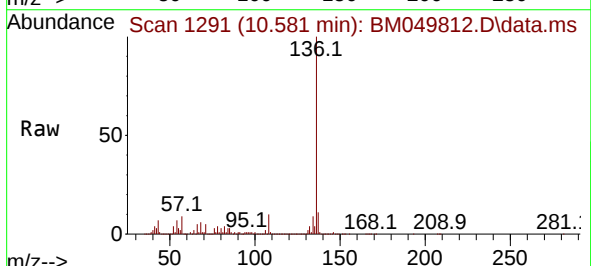
Manual Integrations  
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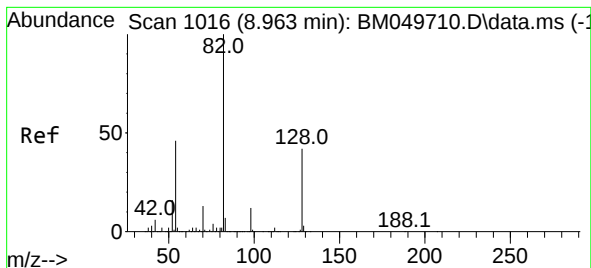
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.581 min Scan# 1291  
Delta R.T. -0.024 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

Tgt Ion:136 Resp: 1396312  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 12.8  
54 6.7 5.8 8.8  
68 5.6 4.5 6.7





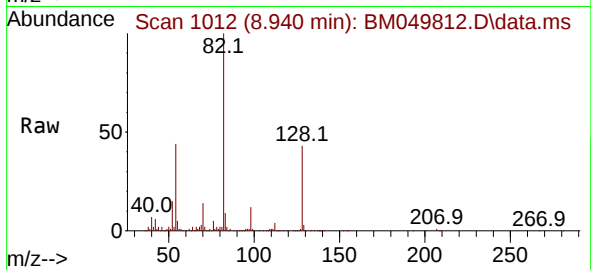
#23  
Nitrobenzene-d5  
Concen: 11.867 ng  
RT: 8.940 min Scan# 1016  
Delta R.T. -0.024 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225



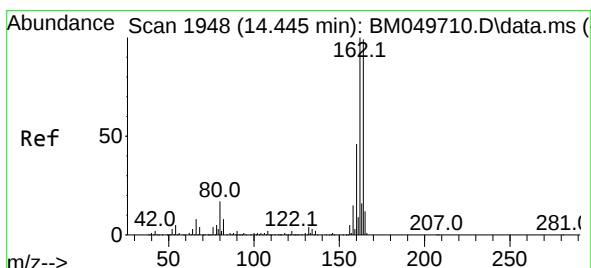
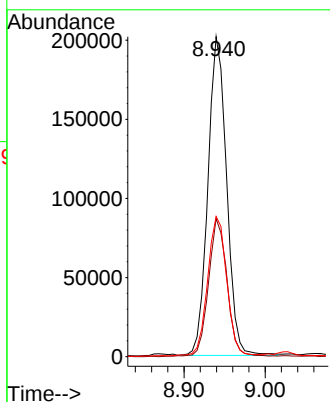
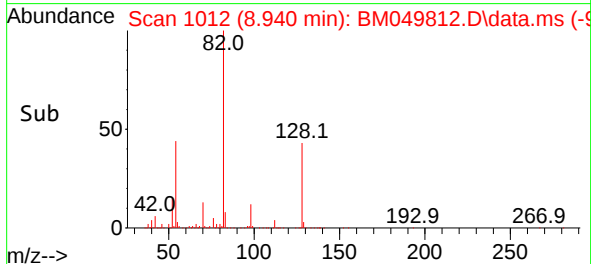
Tgt Ion: 82 Resp: 322748  
Ion Ratio Lower Upper  
82 100  
128 43.2 33.4 50.0  
54 43.8 36.4 54.6

Manual Integrations

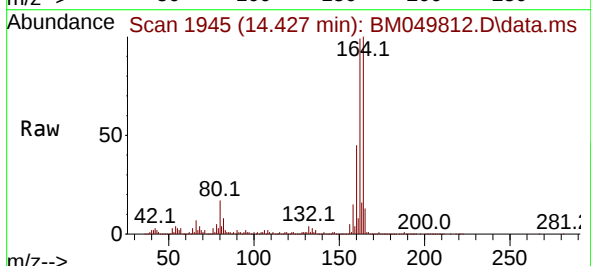
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

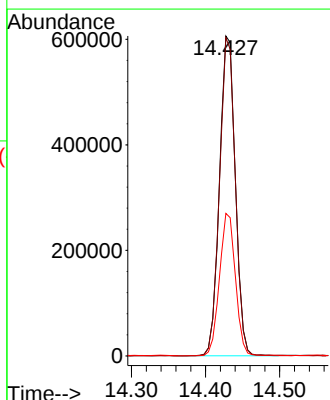
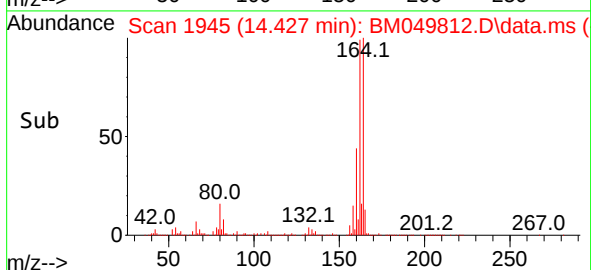
Supervised By :Jagrut Upadhyay 04/04/2025

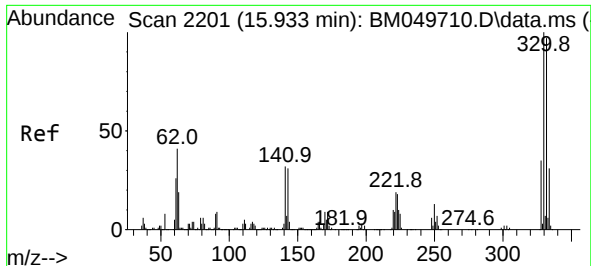


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.427 min Scan# 1945  
Delta R.T. -0.018 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11



Tgt Ion:164 Resp: 897798  
Ion Ratio Lower Upper  
164 100  
162 99.5 80.5 120.7  
160 44.5 36.9 55.3





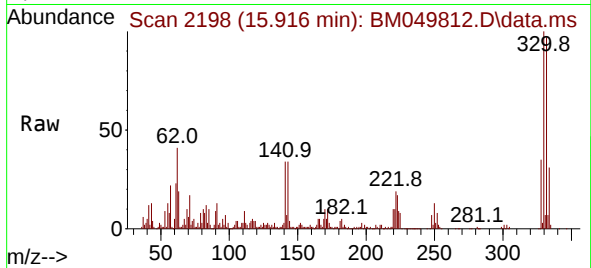
#42  
2,4,6-Tribromophenol  
Concen: 20.205 ng  
RT: 15.916 min Scan# 2118  
Delta R.T. -0.017 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225



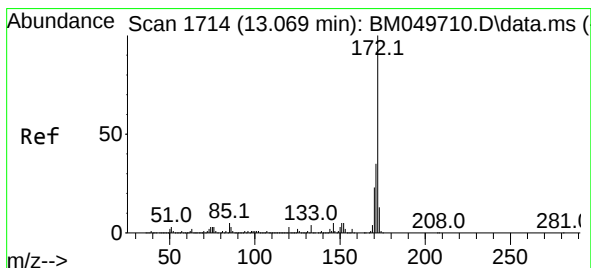
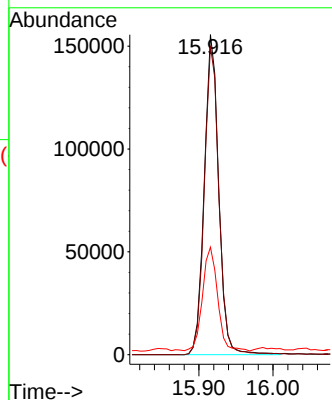
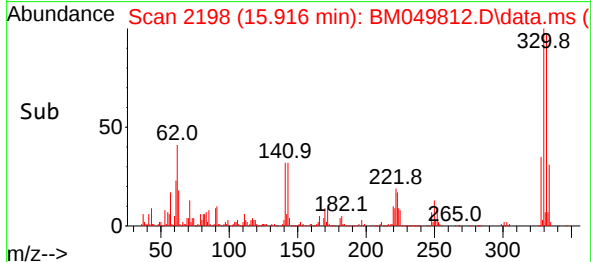
Tgt Ion:330 Resp: 211820  
Ion Ratio Lower Upper  
330 100  
332 97.4 77.0 115.4  
141 33.7 27.8 41.6

Manual Integrations

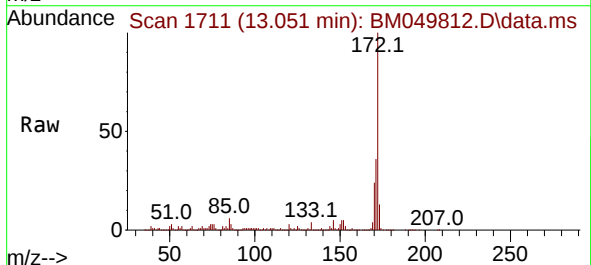
APPROVED

Reviewed By :Rahul Chavli 04/04/2025

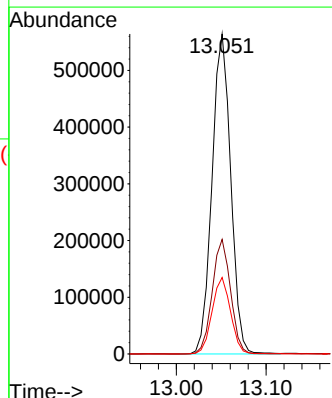
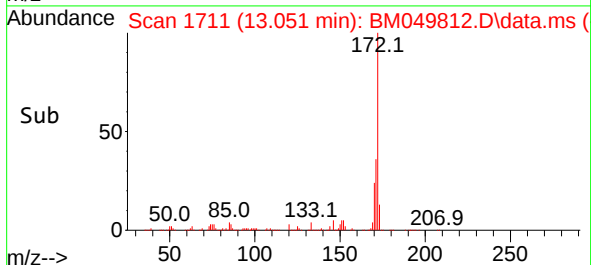
Supervised By :Jagrut Upadhyay 04/04/2025

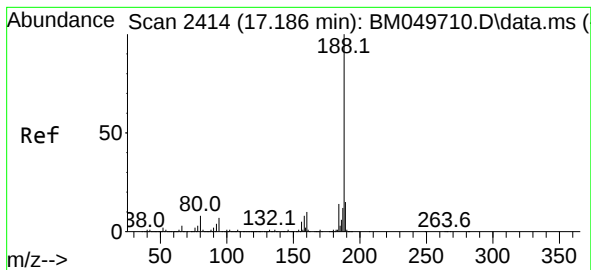


#45  
2-Fluorobiphenyl  
Concen: 11.409 ng  
RT: 13.051 min Scan# 1711  
Delta R.T. -0.018 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11



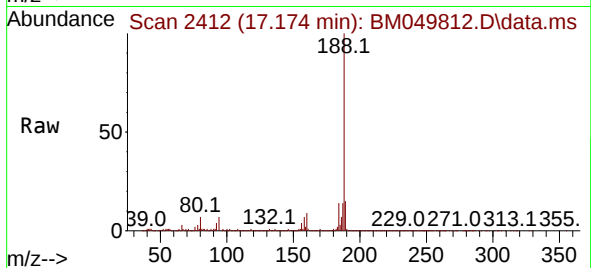
Tgt Ion:172 Resp: 817891  
Ion Ratio Lower Upper  
172 100  
171 35.8 27.9 41.9  
170 23.9 18.6 28.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.174 min Scan# 2414  
Delta R.T. -0.012 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

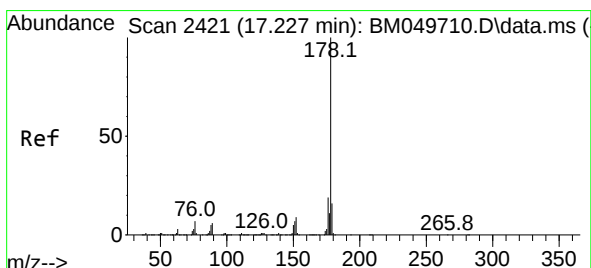
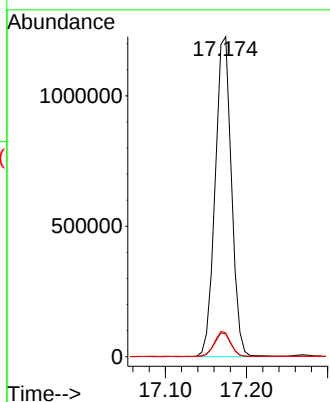
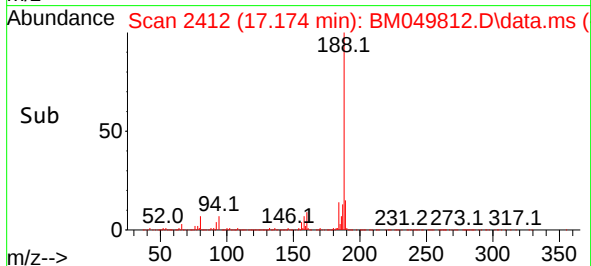
Instrument :  
BNA\_M  
ClientSampleId :  
PL-02-040225



Tgt Ion:188 Resp: 1714130  
Ion Ratio Lower Upper  
188 100  
94 7.2 5.8 8.6  
80 7.5 6.3 9.5

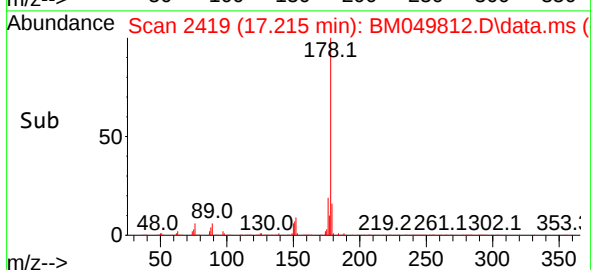
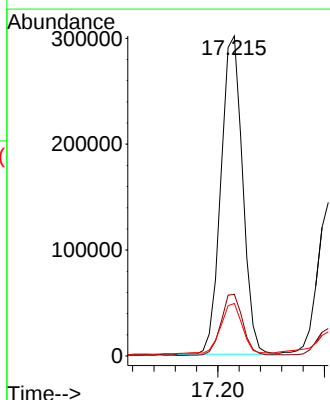
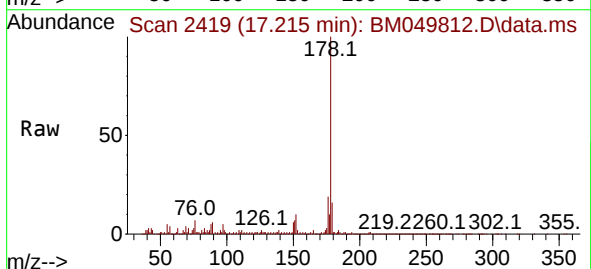
Manual Integrations  
APPROVED

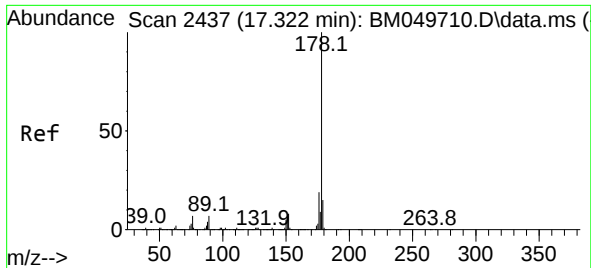
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#71  
Phenanthrene  
Concen: 4.449 ng  
RT: 17.215 min Scan# 2419  
Delta R.T. -0.012 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

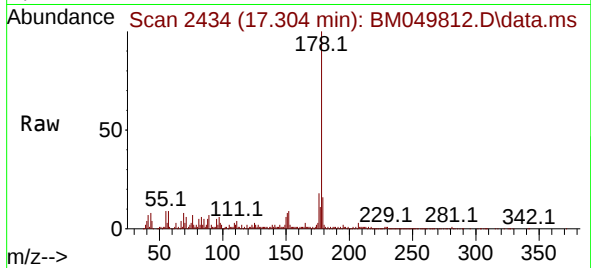
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Ion Ratio Lower Upper  
178 100  
176 19.3 15.5 23.3  
179 16.4 12.5 18.7





#72  
 Anthracene  
 Concen: 2.177 ng  
 RT: 17.304 min Scan# 2437  
 Delta R.T. -0.018 min  
 Lab File: BM049812.D  
 Acq: 03 Apr 2025 19:11

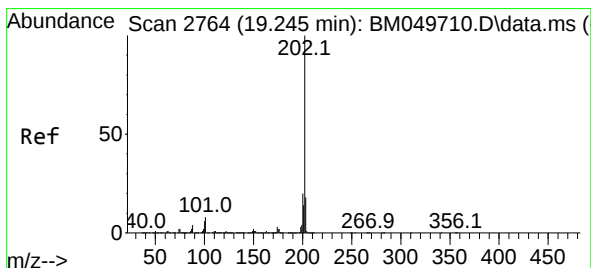
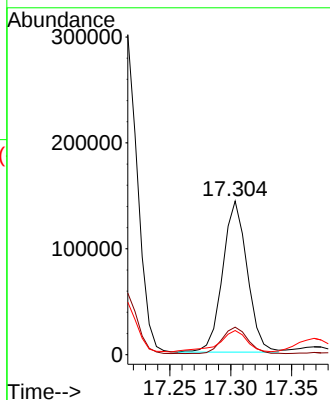
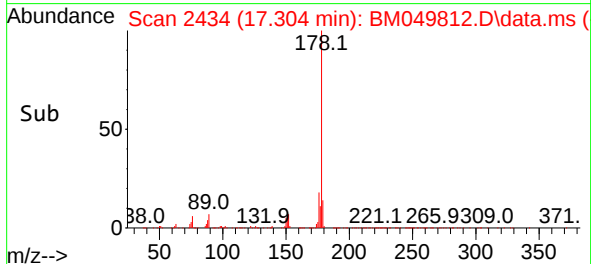
Instrument :  
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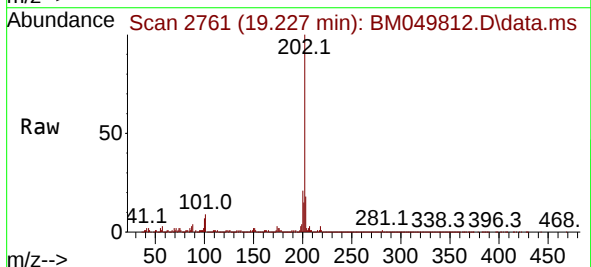
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Manual Integrations  
 APPROVED

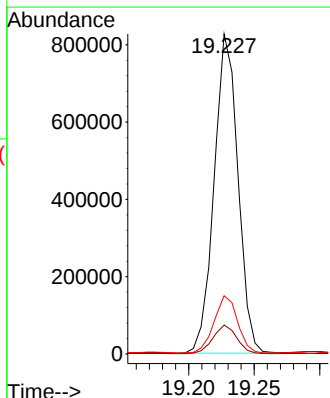
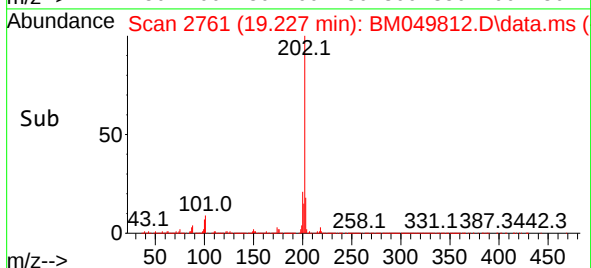
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 Supervised By :Jagrut Upadhyay 04/04/2025

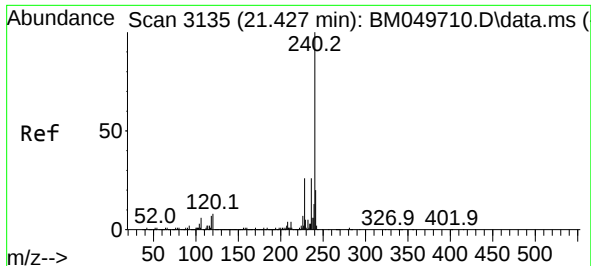


#75  
 Fluoranthene  
 Concen: 9.514 ng  
 RT: 19.227 min Scan# 2761  
 Delta R.T. -0.018 min  
 Lab File: BM049812.D  
 Acq: 03 Apr 2025 19:11



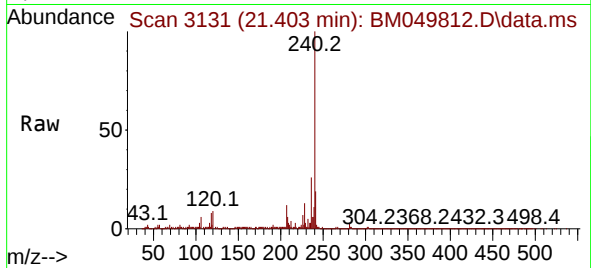
Tgt Ion:202 Resp: 1042598  
 Ion Ratio Lower Upper  
 202 100  
 101 9.0 0.0 27.8  
 203 18.2 0.0 37.6





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.403 min Scan# 3135  
Delta R.T. -0.024 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

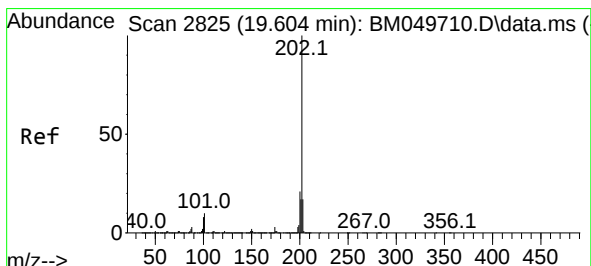
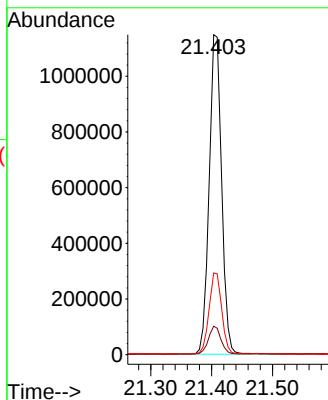
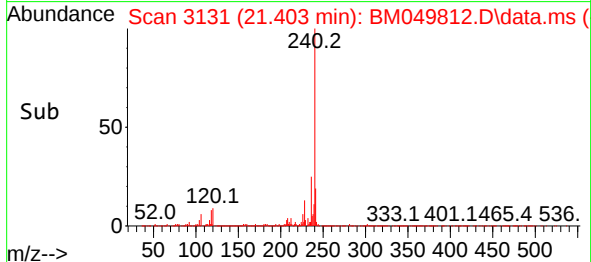
Instrument :  
BNA\_M  
ClientSampleId :  
PL-02-040225



Tgt Ion:240 Resp: 1629694  
Ion Ratio Lower Upper  
240 100  
120 8.9 6.5 9.7  
236 25.6 20.7 31.1

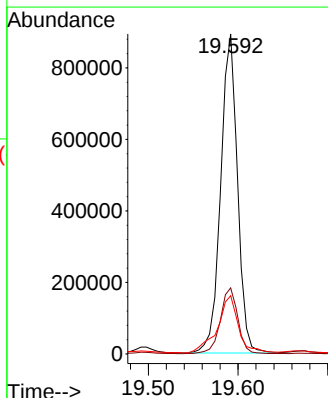
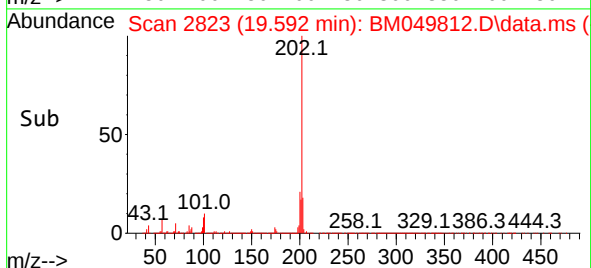
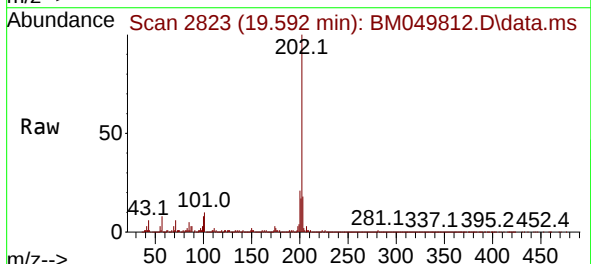
Manual Integrations  
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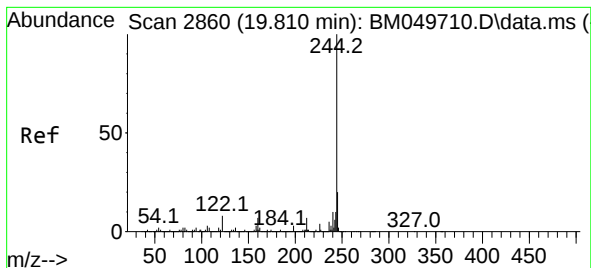
Reviewed By :Rahul Chavli 04/04/2025  
Supervised By :Jagrut Upadhyay 04/04/2025



#78  
Pyrene  
Concen: 10.193 ng  
RT: 19.592 min Scan# 2823  
Delta R.T. -0.012 min  
Lab File: BM049812.D  
Acq: 03 Apr 2025 19:11

Tgt Ion:202 Resp: 1160602  
Ion Ratio Lower Upper  
202 100  
200 20.6 17.0 25.4  
203 18.2 14.0 21.0





#79

Terphenyl-d14

Concen: 10.585 ng

RT: 19.792 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM049812.D

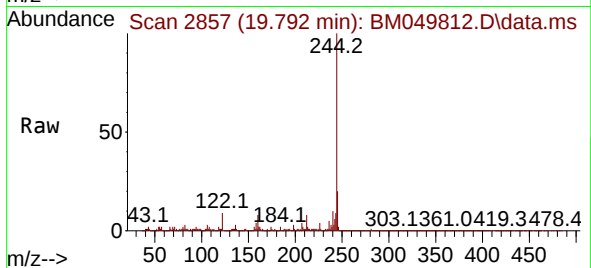
Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225



Tgt Ion:244 Resp: 1023680

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.6

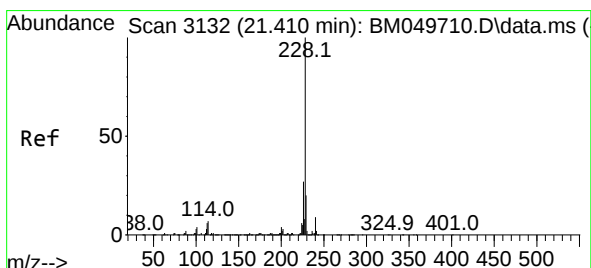
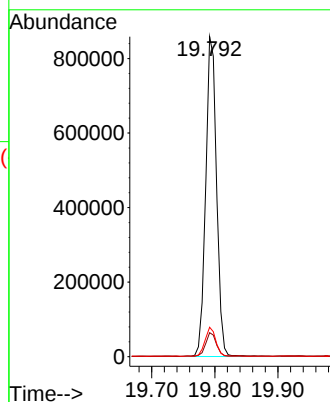
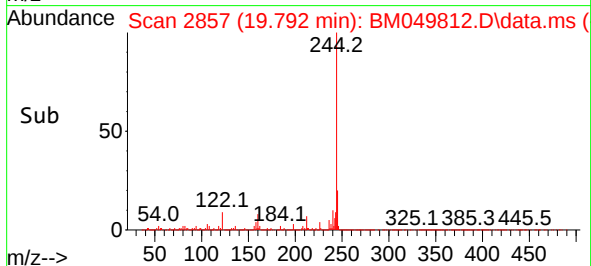
122 9.2 6.0 9.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#81

Benzo(a)anthracene

Concen: 6.289 ng

RT: 21.392 min Scan# 3129

Delta R.T. -0.018 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

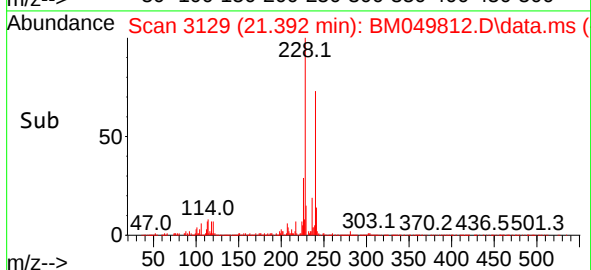
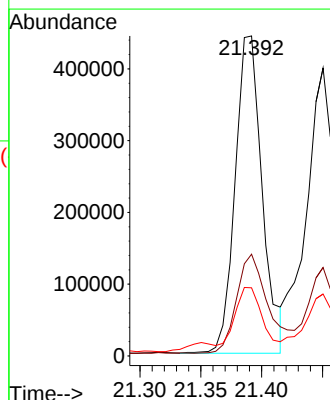
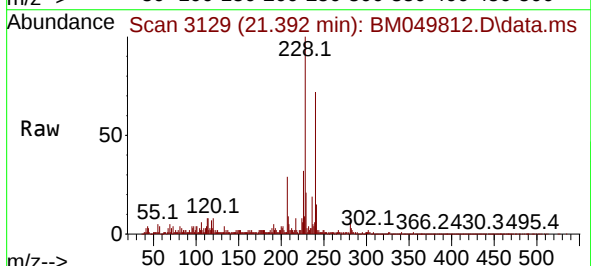
Tgt Ion:228 Resp: 684521

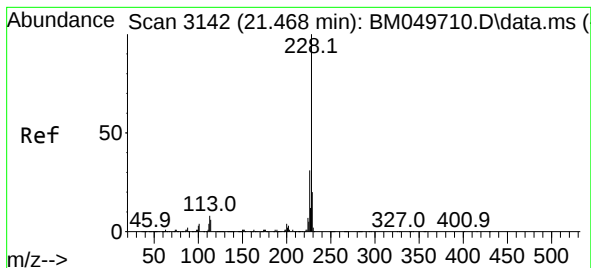
Ion Ratio Lower Upper

228 100

226 31.8 22.0 33.0

229 21.3 15.8 23.8





#83

Chrysene

Concen: 6.209 ng

RT: 21.450 min Scan# 3142

Delta R.T. -0.018 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225

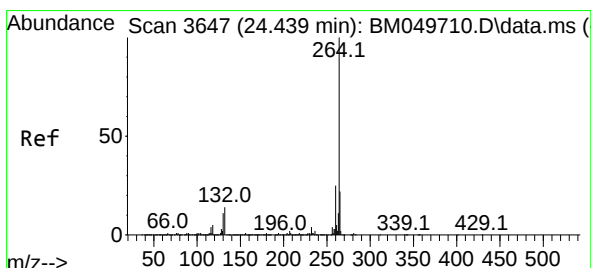
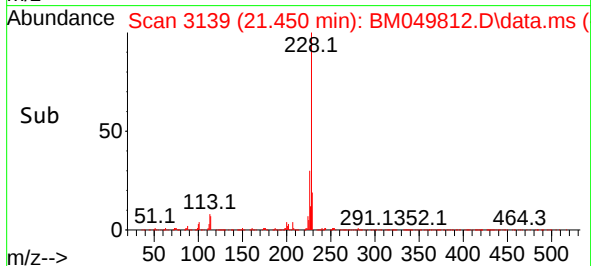
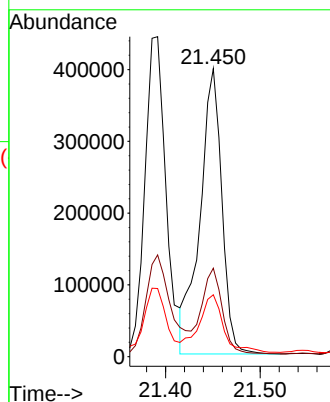
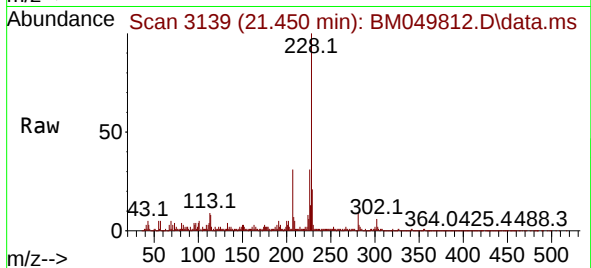
Tgt Ion:228 Resp: 640724  
 Ion Ratio Lower Upper  
 228 100  
 226 30.7 24.5 36.7  
 229 21.5 15.8 23.6

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#86

Perylene-d12

Concen: 20.000 ng

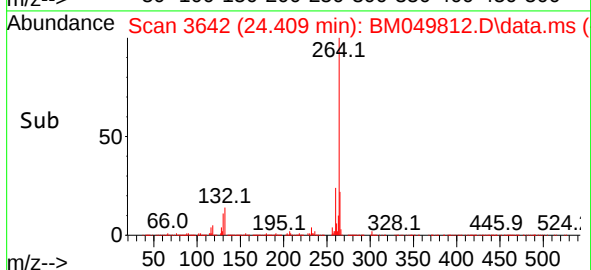
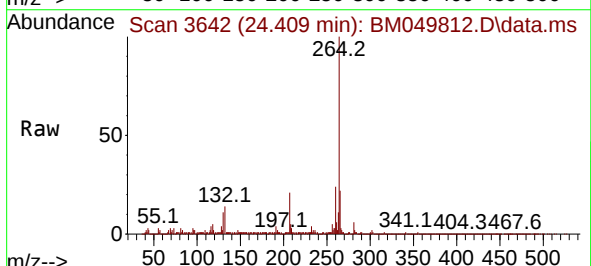
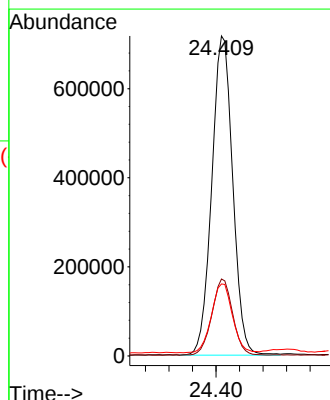
RT: 24.409 min Scan# 3642

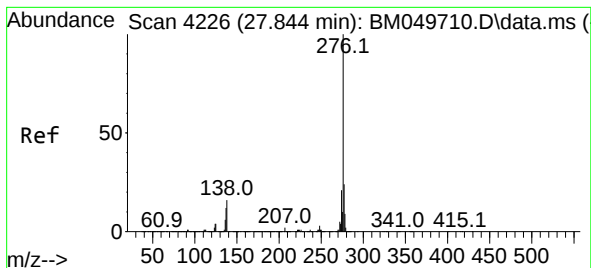
Delta R.T. -0.030 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

Tgt Ion:264 Resp: 1774416  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.6 29.4  
 265 22.5 18.2 27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.444 ng

RT: 27.791 min Scan# 41

Delta R.T. -0.053 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225

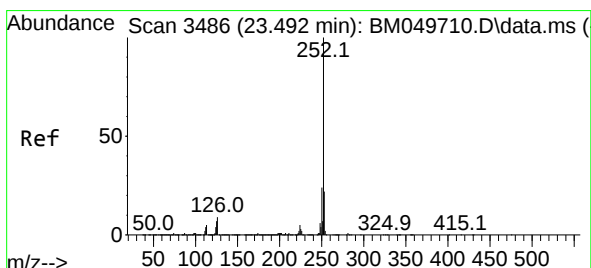
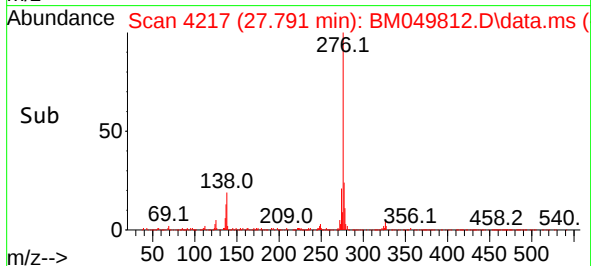
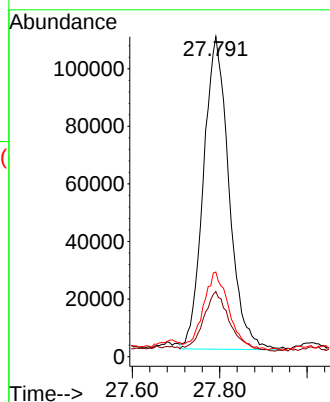
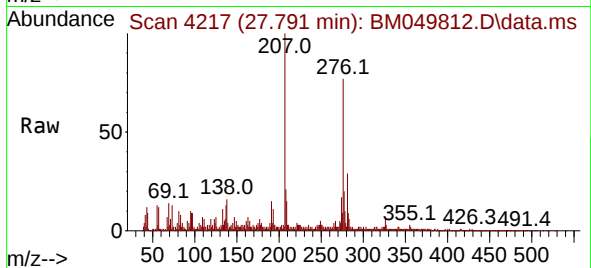
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 43989 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 20.0  | 16.3  | 24.5  |
| 277       | 25.4  | 19.9  | 29.9  |

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#88

Benzo(b)fluoranthene

Concen: 7.001 ng

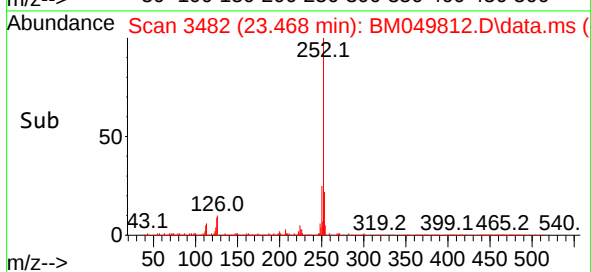
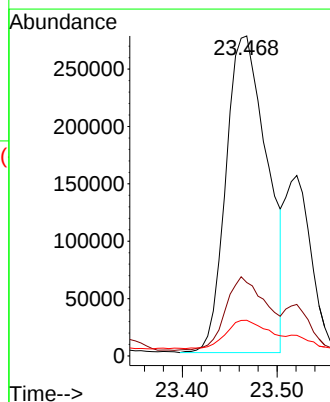
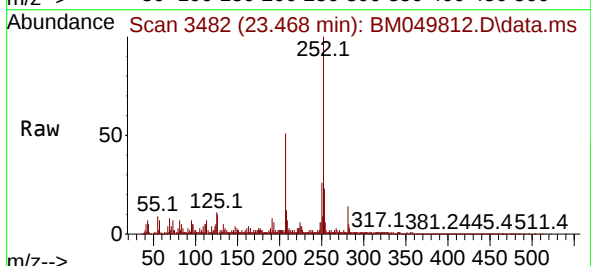
RT: 23.468 min Scan# 3482

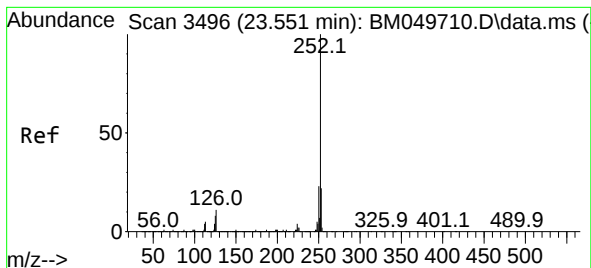
Delta R.T. -0.024 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 836720 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 17.4  | 26.0   |
| 125       | 11.2  | 5.9   | 8.9    |





#89

Benzo(k)fluoranthene

Concen: 2.555 ng m

RT: 23.521 min Scan# 34

Delta R.T. -0.030 min

Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225

Tgt Ion:252 Resp: 300509

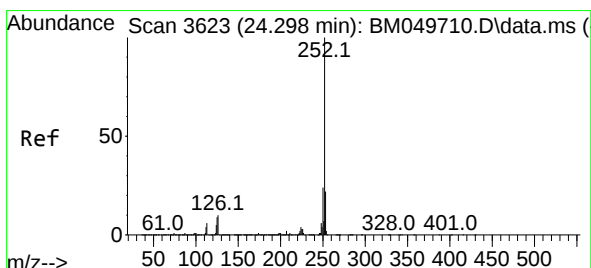
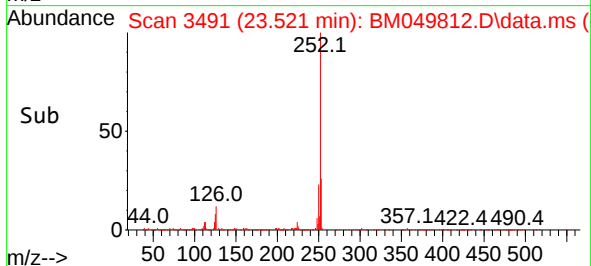
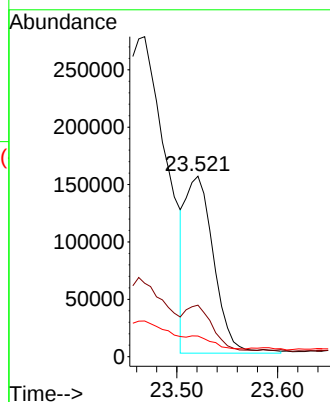
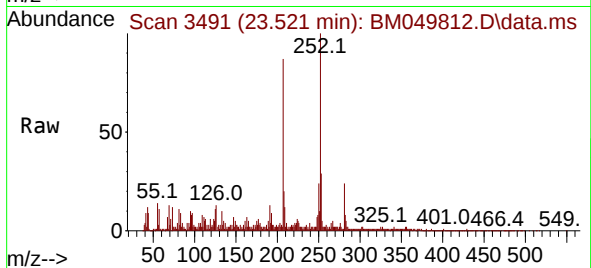
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 28.5  | 17.3  | 25.9  |
| 125 | 11.5  | 6.2   | 9.2   |

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025



#90

Benzo(a)pyrene

Concen: 6.292 ng

RT: 24.268 min Scan# 3618

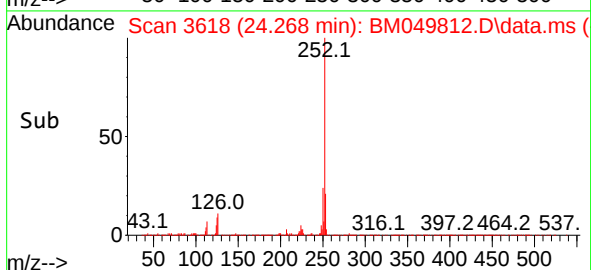
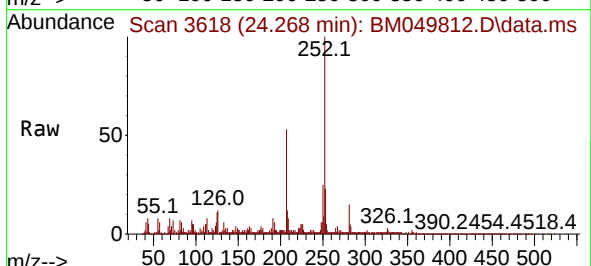
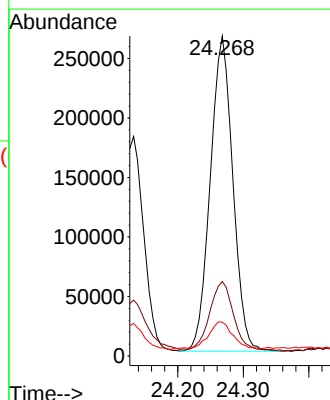
Delta R.T. -0.030 min

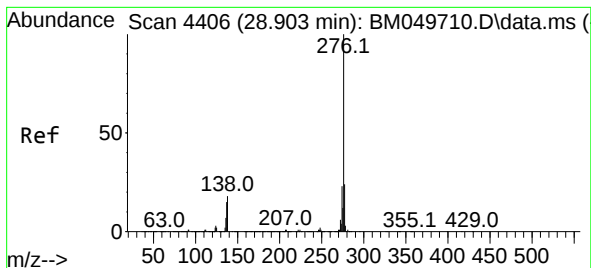
Lab File: BM049812.D

Acq: 03 Apr 2025 19:11

Tgt Ion:252 Resp: 631605

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.3  | 17.2  | 25.8  |
| 125 | 10.5  | 7.0   | 10.6  |





#92

Benzo(g,h,i)perylene

Concen: 4.136 ng

RT: 28.844 min Scan# 41

Delta R.T. -0.059 min

Lab File: BM049812.D

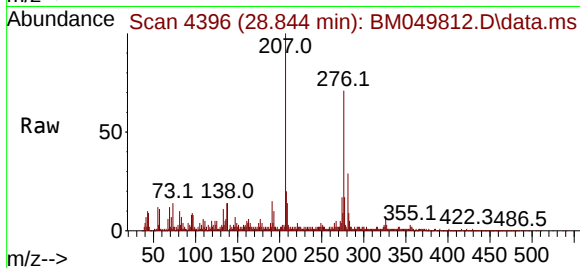
Acq: 03 Apr 2025 19:11

Instrument :

BNA\_M

ClientSampleId :

PL-02-040225



Tgt Ion: 276 Resp: 44327

Ion Ratio Lower Upper

276 100

277 24.6 18.8 28.2

138 19.2 14.0 21.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/04/2025

Supervised By :Jagrut Upadhyay 04/04/2025

