

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061225\  
 Data File : BP024934.D  
 Acq On : 12 Jun 2025 17:55  
 Operator : RC/JU  
 Sample : Q2296-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-1

Manual Integrations  
 APPROVED

Reviewed By :Anahy  
 Claudio

06/13/2025  
 Supervised By :Jagrut  
 Upadhyay

Quant Time: Jun 12 18:33:03 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 06 16:20:27 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.608  | 152  | 249029   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.378 | 136  | 975728   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.249 | 164  | 609284   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.066 | 188  | 1239557  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.501 | 240  | 1351212  | 20.000 | ng    | 0.02     |
| 86) Perylene-d12              | 24.772 | 264  | 1630054  | 20.000 | ng    | 0.05     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.237  | 112  | 1215882  | 81.499 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.819  | 99   | 1638667  | 83.015 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.761  | 82   | 1030766  | 51.334 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.784 | 330  | 815547   | 96.816 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.860 | 172  | 2192282  | 48.471 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.801 | 244  | 3403420  | 45.143 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene            | 13.972 | 152  | 741697   | 13.071 | ng    | 99       |
| 58) Fluorene                  | 15.325 | 166  | 99937    | 2.370  | ng    | 99       |
| 71) Phenanthrene              | 17.107 | 178  | 2068977  | 30.204 | ng    | 100      |
| 72) Anthracene                | 17.201 | 178  | 848303   | 12.228 | ng    | 99       |
| 73) Carbazole                 | 17.490 | 167  | 190351   | 2.960  | ng    | 98       |
| 75) Fluoranthene              | 19.201 | 202  | 6435553  | 81.058 | ng    | 98       |
| 78) Pyrene                    | 19.578 | 202  | 6668829  | 78.999 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.483 | 228  | 4249587  | 49.173 | ng    | 95       |
| 83) Chrysene                  | 21.548 | 228  | 4306396  | 52.590 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 21.413 | 149  | 227643   | 4.109  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.495 | 276  | 3678185  | 30.927 | ng    | 96       |
| 88) Benzo(b)fluoranthene      | 23.742 | 252  | 6502479  | 69.703 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 23.795 | 252  | 2188866m | 23.051 | ng    |          |
| 90) Benzo(a)pyrene            | 24.613 | 252  | 4930705  | 54.122 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 28.530 | 278  | 992070   | 10.248 | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 29.642 | 276  | 3742883  | 38.967 | ng    | 99       |

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

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Operator : RC/JU  
Sample : Q2296-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1

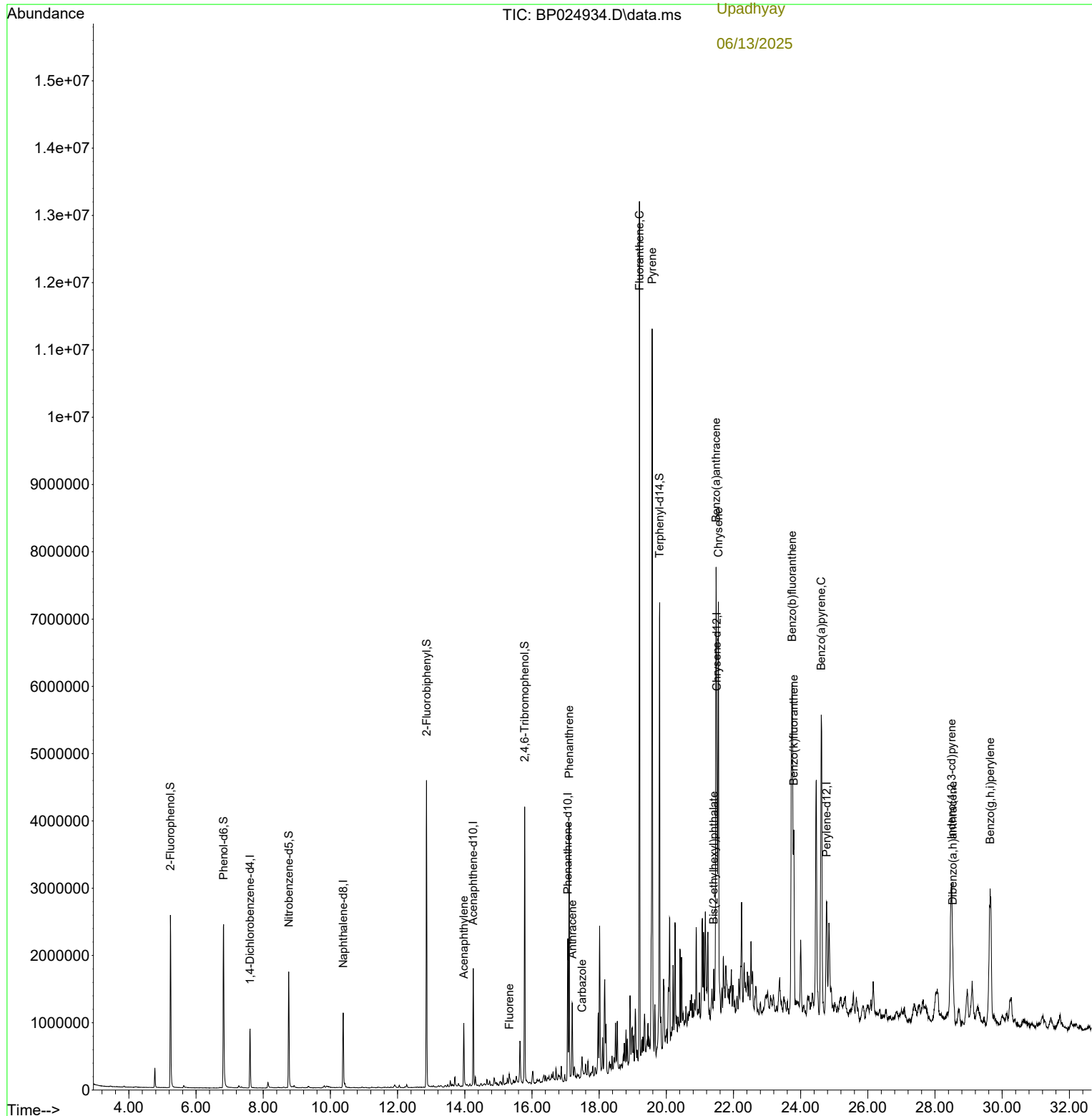
Quant Time: Jun 12 18:33:03 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060625.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 06 16:20:27 2025  
Response via : Initial Calibration

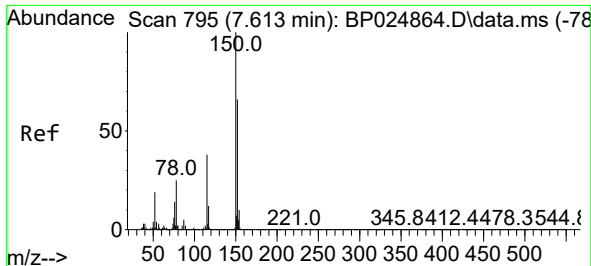
Manual Integrations  
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Reviewed By :Anahy  
Claudio

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Upadhyay

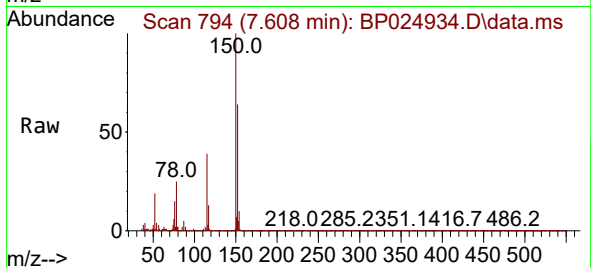
06/13/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.608 min Scan# 795  
Delta R.T. -0.005 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



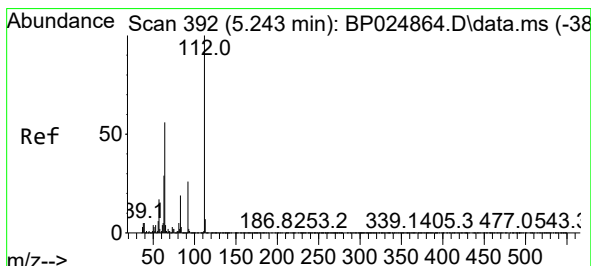
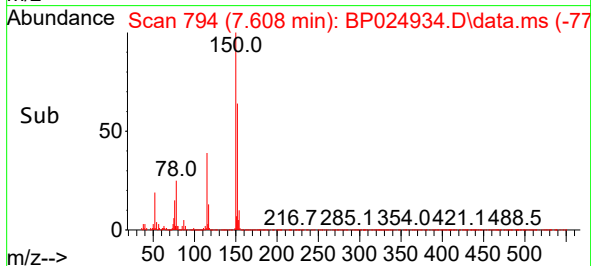
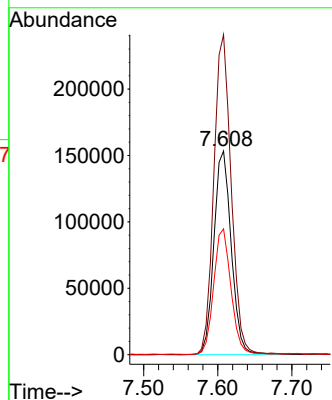
Tgt Ion:152 Resp: 249029  
Ion Ratio Lower Upper  
152 100  
150 157.2 122.1 183.1  
115 61.8 46.4 69.6

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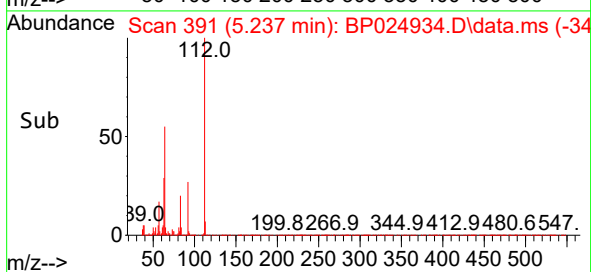
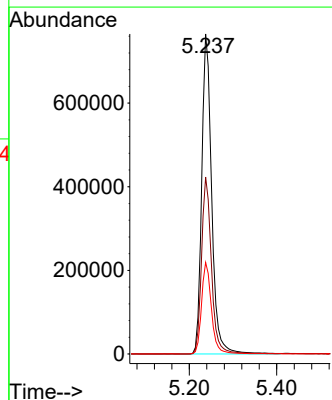
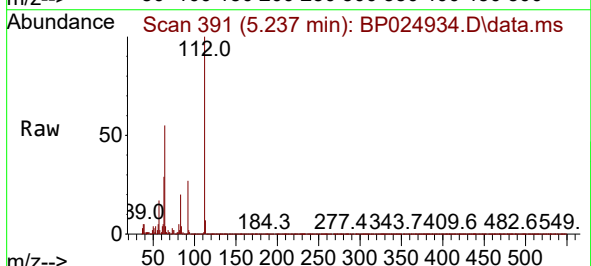
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Upadhyay

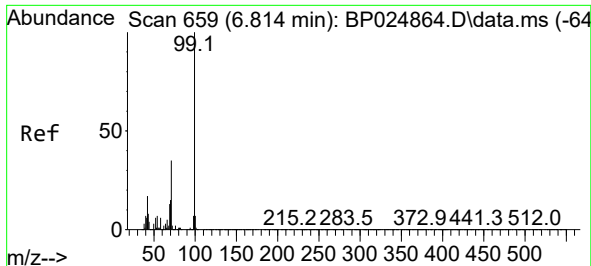
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#5  
2-Fluorophenol  
Concen: 81.499 ng  
RT: 5.237 min Scan# 391  
Delta R.T. -0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

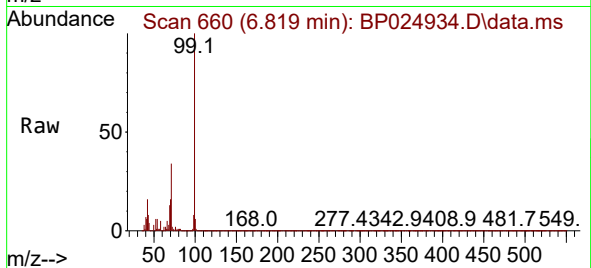
Tgt Ion:112 Resp: 1215882  
Ion Ratio Lower Upper  
112 100  
64 55.3 44.7 67.1  
63 28.6 23.5 35.3





#7  
Phenol-d6  
Concen: 83.015 ng  
RT: 6.819 min Scan# 60  
Delta R.T. 0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



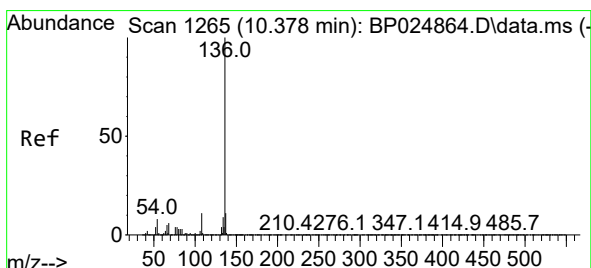
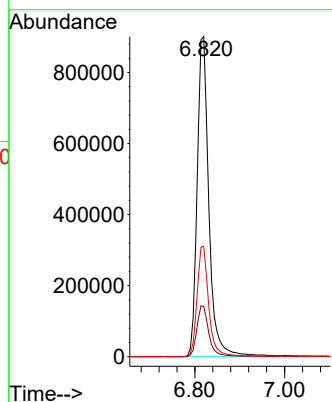
Tgt Ion: 99 Resp: 163866  
Ion Ratio Lower Upper  
99 100  
42 15.7 13.4 20.2  
71 34.4 27.6 41.4

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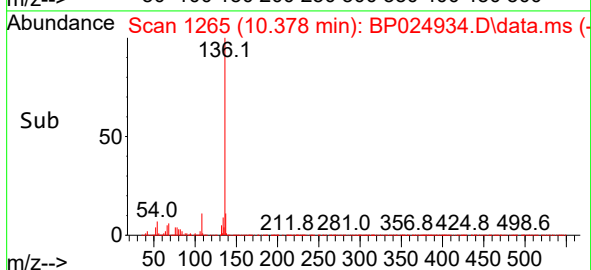
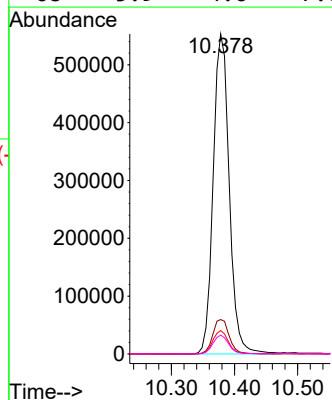
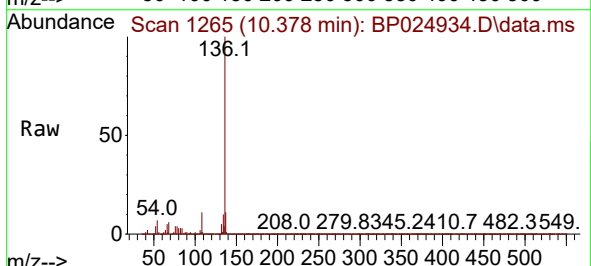
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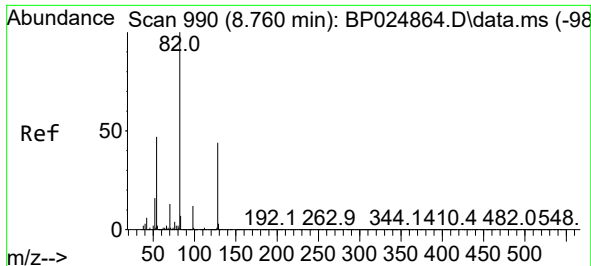
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.378 min Scan# 1265  
Delta R.T. 0.000 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

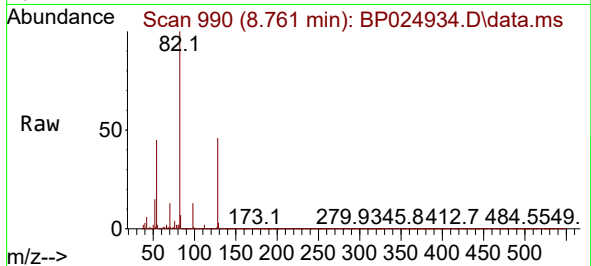
Tgt Ion:136 Resp: 975728  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.9 13.3  
54 7.3 6.1 9.1  
68 5.9 4.6 7.0





#23  
Nitrobenzene-d5  
Concen: 51.334 ng  
RT: 8.761 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



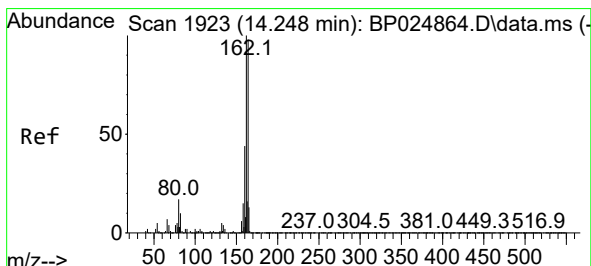
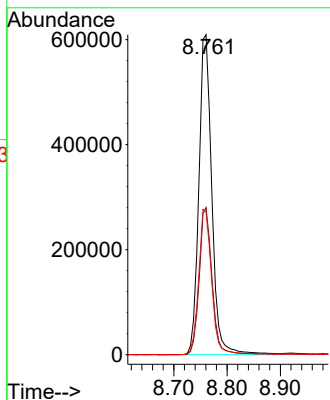
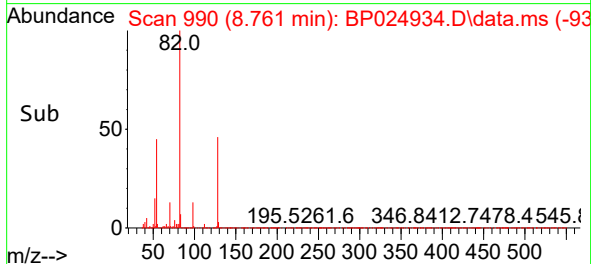
Tgt Ion: 82 Resp: 1030760  
Ion Ratio Lower Upper  
82 100  
128 46.0 35.3 52.9  
54 44.7 37.4 56.0

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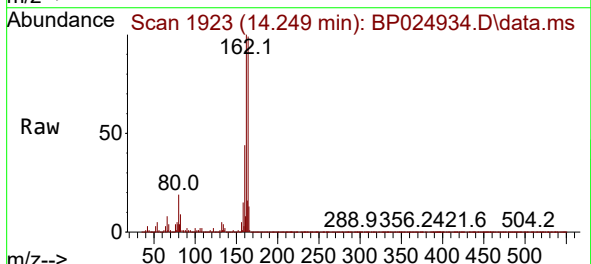
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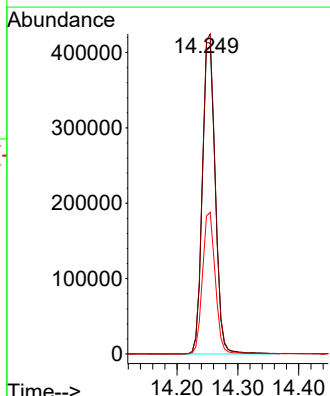
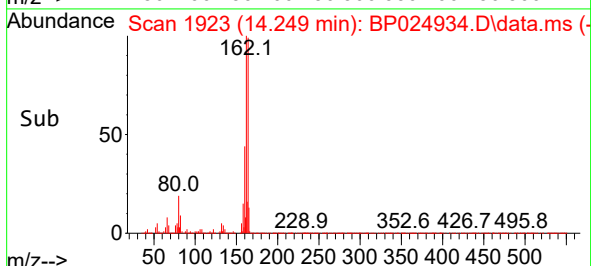
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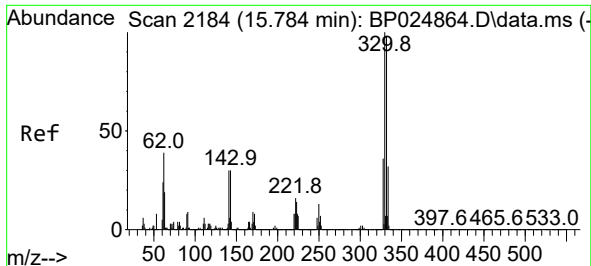


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.249 min Scan# 1923  
Delta R.T. 0.000 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55



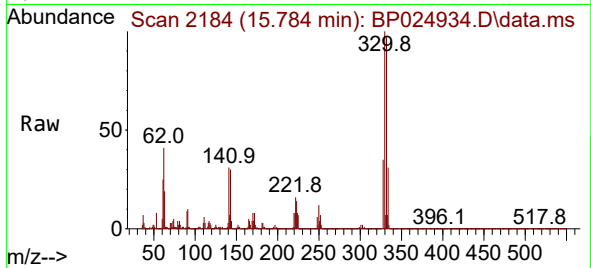
Tgt Ion:164 Resp: 609284  
Ion Ratio Lower Upper  
164 100  
162 100.7 81.6 122.4  
160 44.4 36.2 54.2





#42  
2,4,6-Tribromophenol  
Concen: 96.816 ng  
RT: 15.784 min Scan# 2184  
Delta R.T. 0.000 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



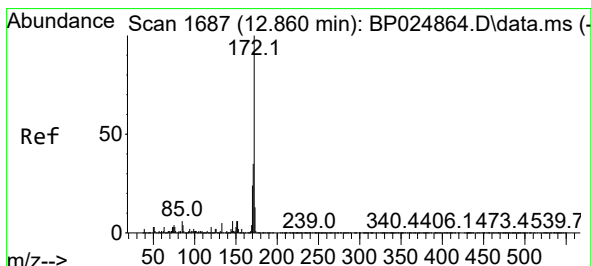
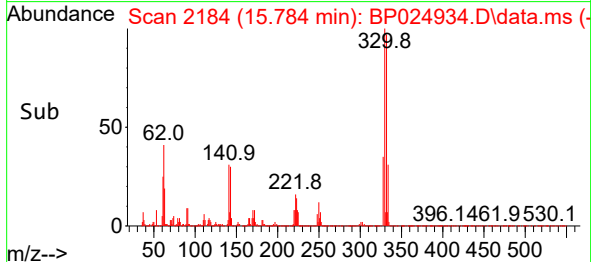
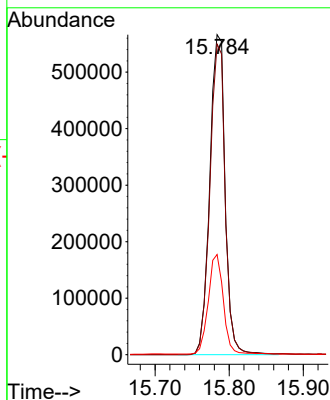
Tgt Ion: 330 Resp: 81554  
Ion Ratio Lower Upper  
330 100  
332 96.8 77.7 116.5  
141 30.4 26.4 39.6

Manual Integrations  
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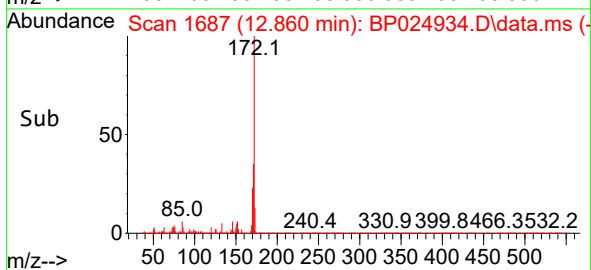
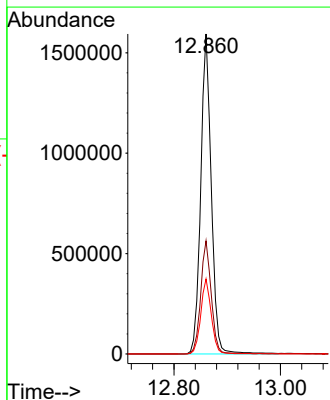
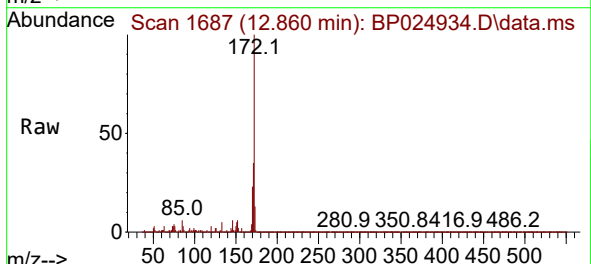
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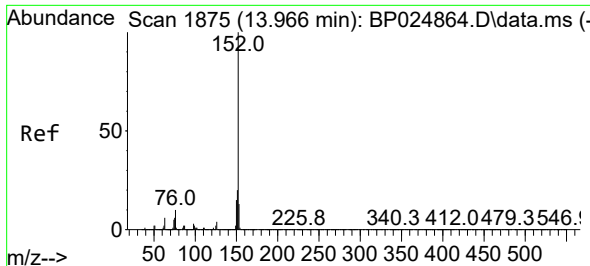
06/13/2025



#45  
2-Fluorobiphenyl  
Concen: 48.471 ng  
RT: 12.860 min Scan# 1687  
Delta R.T. 0.000 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

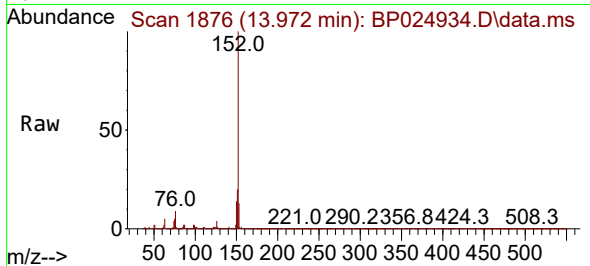
Tgt Ion: 172 Resp: 2192282  
Ion Ratio Lower Upper  
172 100  
171 35.4 28.3 42.5  
170 23.4 19.0 28.4





#49  
Acenaphthylene  
Concen: 13.071 ng  
RT: 13.972 min Scan# 1876  
Delta R.T. 0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



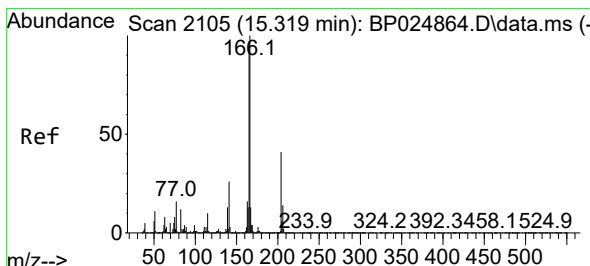
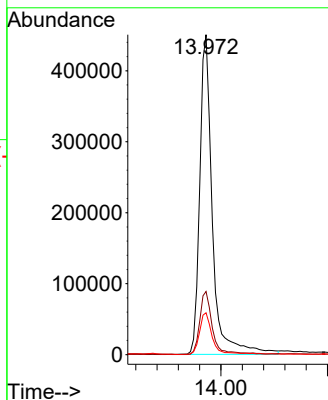
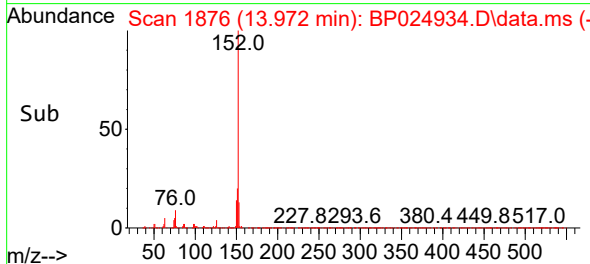
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Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 13.1 10.6 15.8

Manual Integrations  
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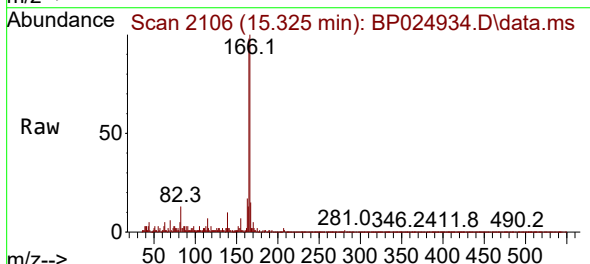
Reviewed By :Anahy  
Claudio

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Upadhyay

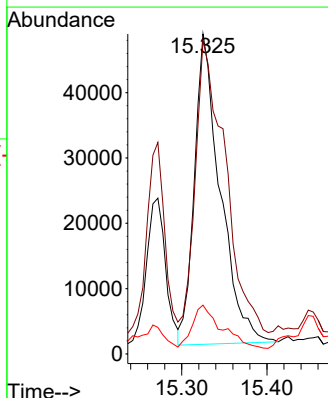
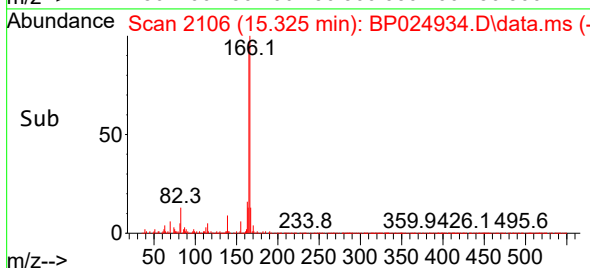
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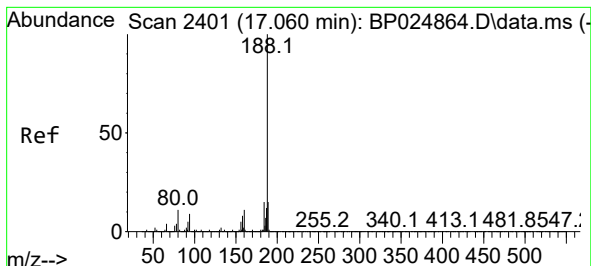


#58  
Fluorene  
Concen: 2.370 ng  
RT: 15.325 min Scan# 2106  
Delta R.T. 0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55



Tgt Ion:166 Resp: 99937  
Ion Ratio Lower Upper  
166 100  
165 98.0 77.7 116.5  
167 15.2 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.066 min Scan# 2401

Delta R.T. 0.006 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

Instrument :

BNA\_P

ClientSampleId :

WC-1

Tgt Ion:188 Resp: 123955

Ion Ratio Lower Upper

188 100

94 8.8 7.3 10.9

80 9.6 8.5 12.7

Manual Integrations

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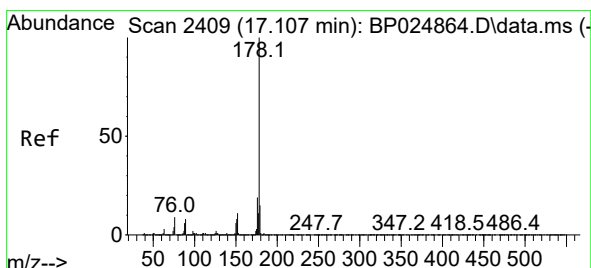
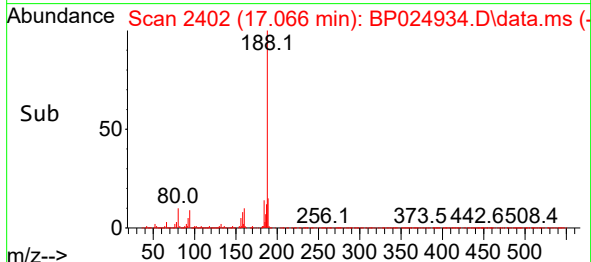
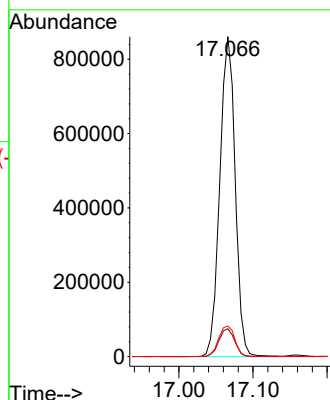
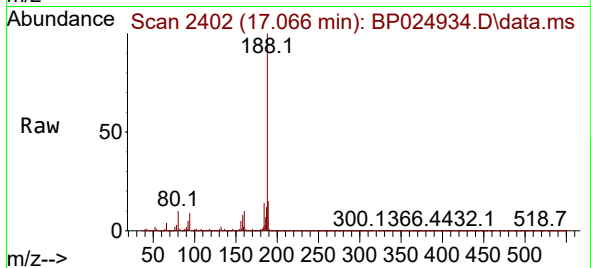
Claudio

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Supervised By :Jagrut

Upadhyay

06/13/2025



#71

Phenanthrene

Concen: 30.204 ng

RT: 17.107 min Scan# 2409

Delta R.T. 0.000 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

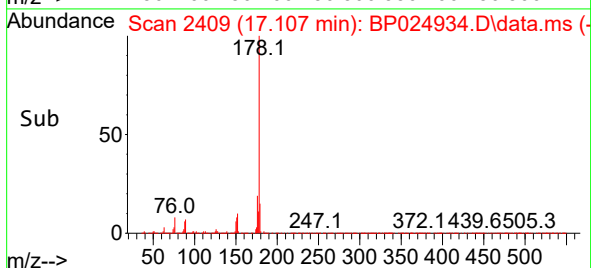
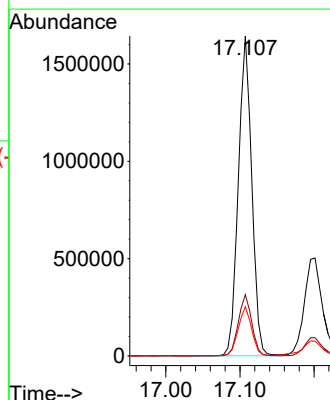
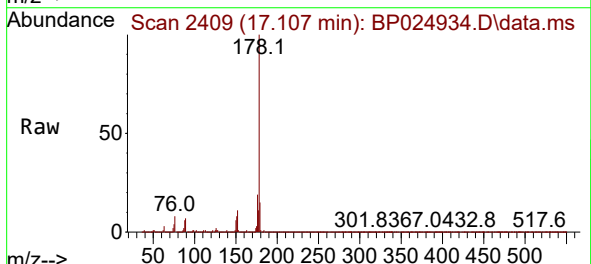
Tgt Ion:178 Resp: 2068977

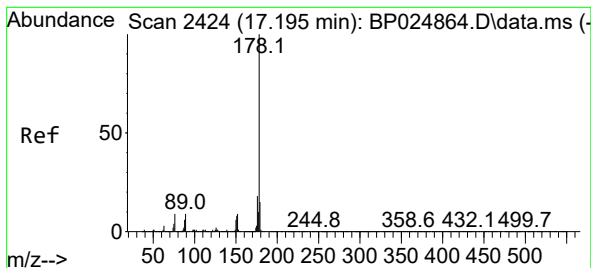
Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.4 12.1 18.1





#72

Anthracene

Concen: 12.228 ng

RT: 17.201 min Scan# 2425

Delta R.T. 0.006 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

Instrument :

BNA\_P

ClientSampleId :

WC-1

|             |             |
|-------------|-------------|
| Tgt Ion:178 | Resp: 84830 |
| Ion Ratio   | Lower Upper |
| 178 100     |             |
| 176 18.7    | 14.7 22.1   |
| 179 15.1    | 12.3 18.5   |

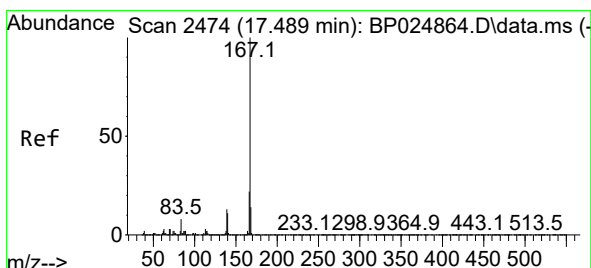
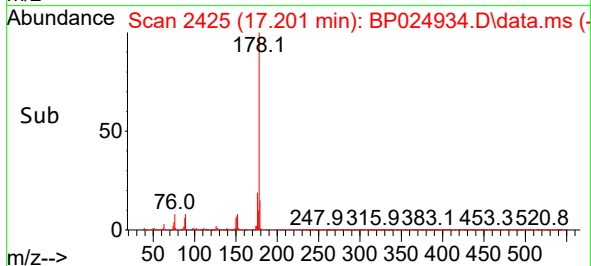
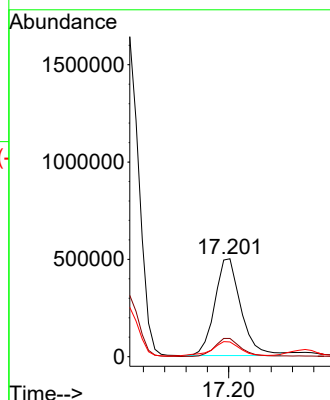
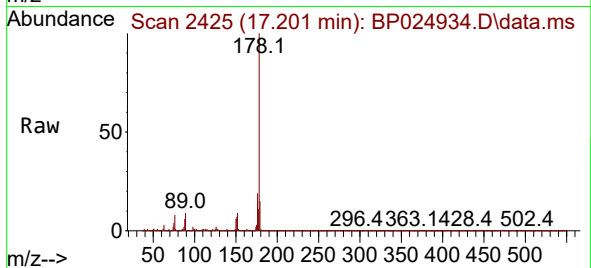
Manual Integrations  
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Reviewed By :Anahy  
Claudio

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Supervised By :Jagrut  
Upadhyay

06/13/2025



#73

Carbazole

Concen: 2.960 ng

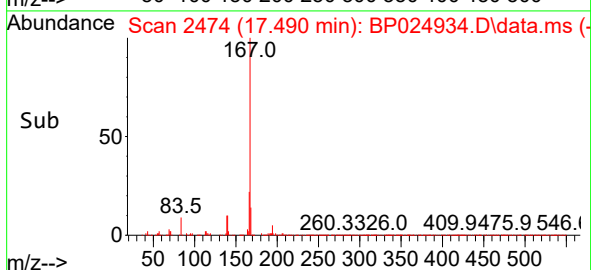
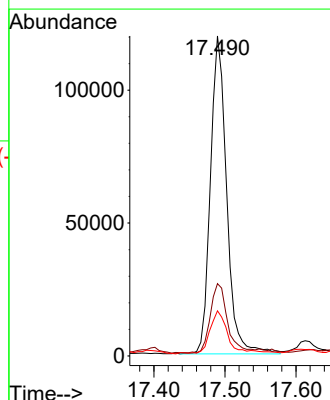
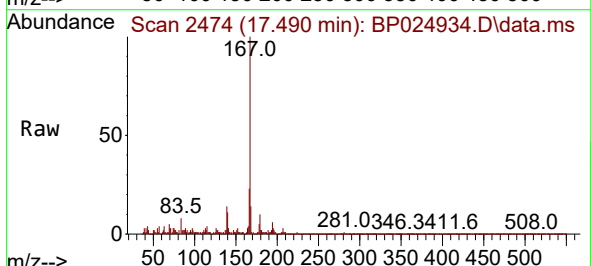
RT: 17.490 min Scan# 2474

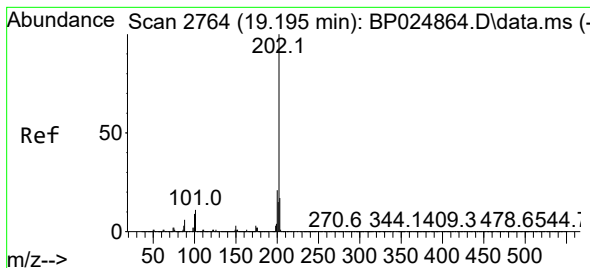
Delta R.T. 0.000 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

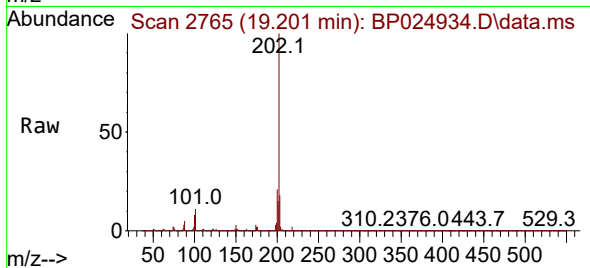
|             |              |
|-------------|--------------|
| Tgt Ion:167 | Resp: 190351 |
| Ion Ratio   | Lower Upper  |
| 167 100     |              |
| 166 22.6    | 17.3 25.9    |
| 139 14.1    | 10.8 16.2    |





#75  
Fluoranthene  
Concen: 81.058 ng  
RT: 19.201 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



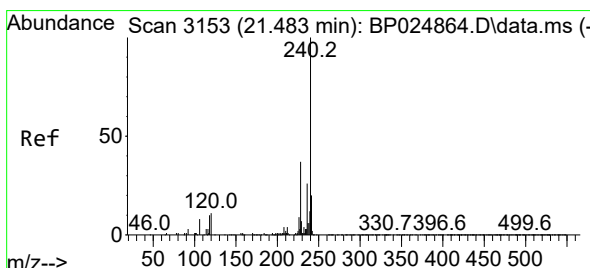
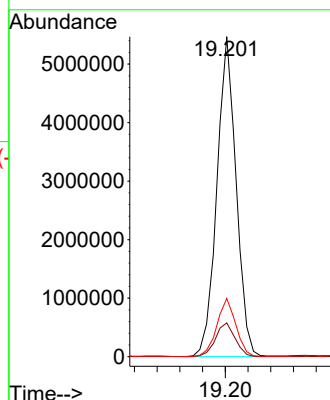
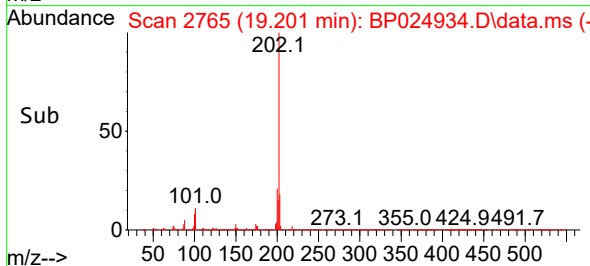
Tgt Ion:202 Resp: 643555  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 31.4  
203 18.2 0.0 37.5

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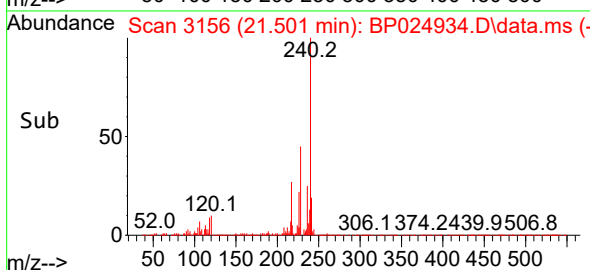
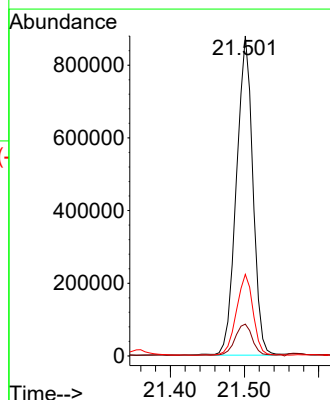
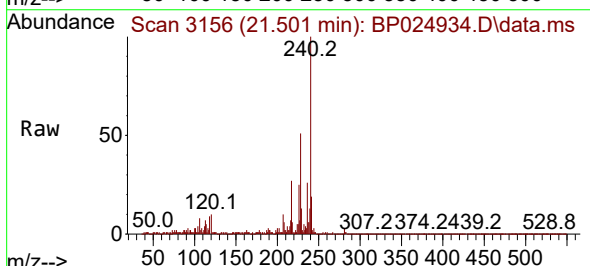
06/13/2025  
Supervised By :Jagrut  
Upadhyay

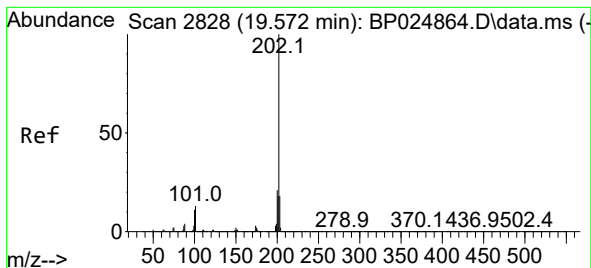
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#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.501 min Scan# 3156  
Delta R.T. 0.018 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Tgt Ion:240 Resp: 1351212  
Ion Ratio Lower Upper  
240 100  
120 10.0 8.9 13.3  
236 25.5 20.9 31.3





#78

Pyrene

Concen: 78.999 ng

RT: 19.578 min Scan# 2828

Delta R.T. 0.006 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

Instrument :

BNA\_P

ClientSampleId :

WC-1

Tgt Ion:202 Resp: 6668829

Ion Ratio Lower Upper

202 100

200 21.7 17.1 25.7

203 18.1 14.0 21.0

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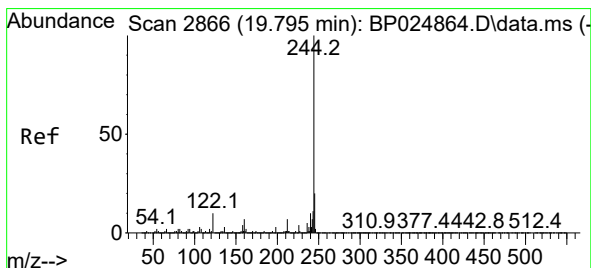
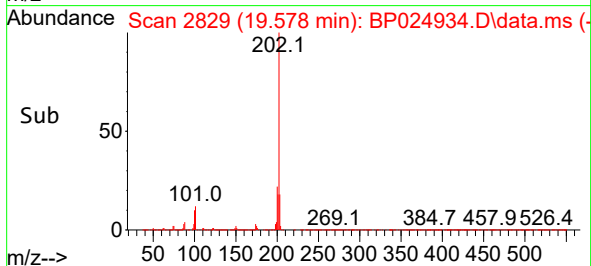
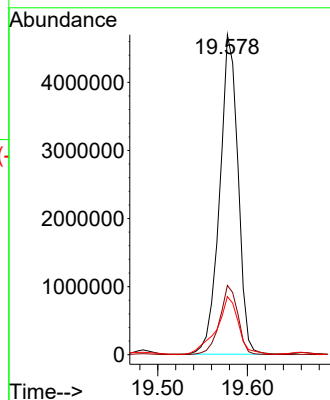
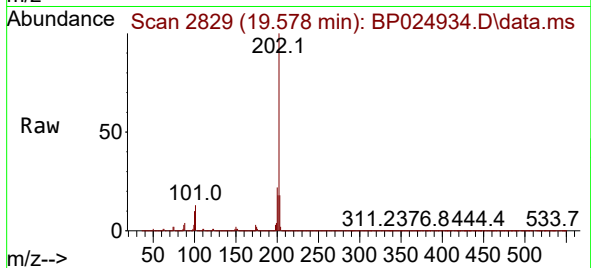
Reviewed By :Anahy

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Upadhyay

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#79

Terphenyl-d14

Concen: 45.143 ng

RT: 19.801 min Scan# 2867

Delta R.T. 0.006 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

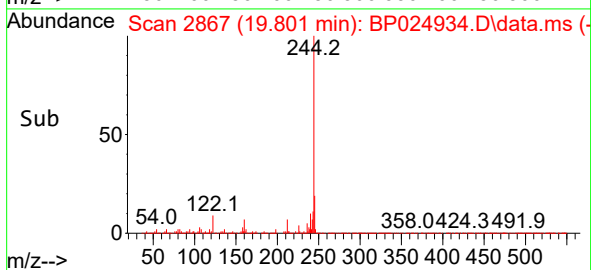
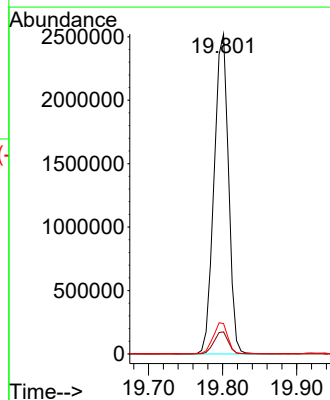
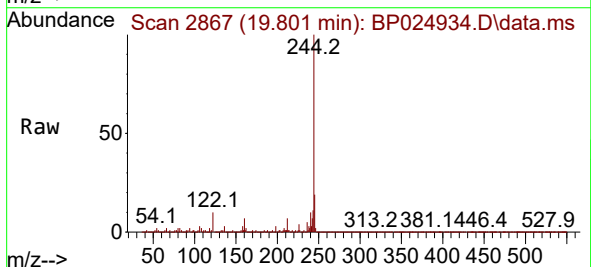
Tgt Ion:244 Resp: 3403420

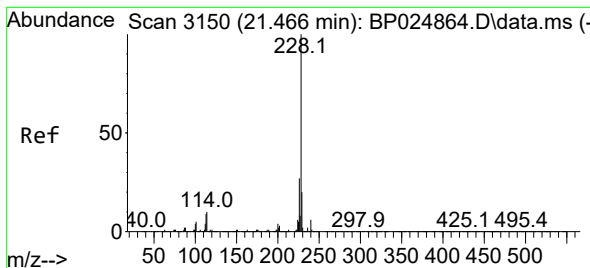
Ion Ratio Lower Upper

244 100

212 6.9 5.6 8.4

122 9.5 7.7 11.5





#81

Benzo(a)anthracene

Concen: 49.173 ng

RT: 21.483 min Scan# 3150

Delta R.T. 0.018 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

Instrument :

BNA\_P

ClientSampleId :

WC-1

Tgt Ion:228 Resp: 424958

Ion Ratio Lower Upper

228 100

226 31.3 22.1 33.1

229 20.7 15.9 23.9

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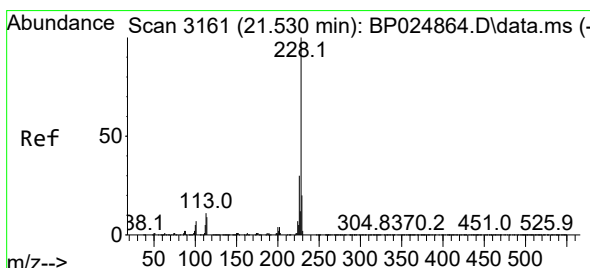
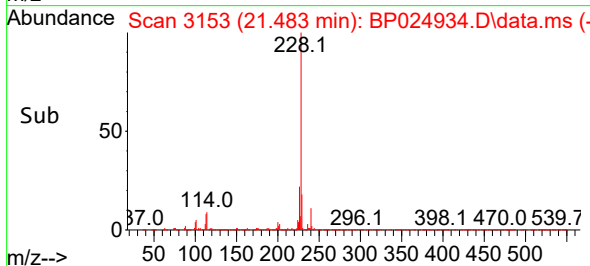
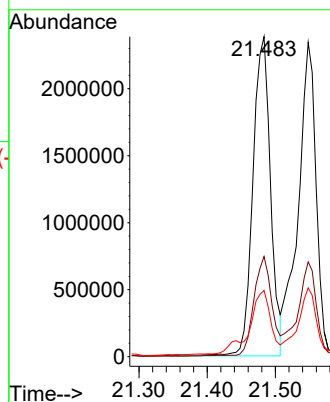
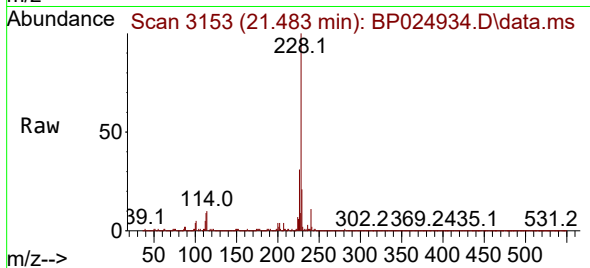
Reviewed By :Anahy

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Supervised By :Jagrut  
Upadhyay

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#83

Chrysene

Concen: 52.590 ng

RT: 21.548 min Scan# 3164

Delta R.T. 0.018 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

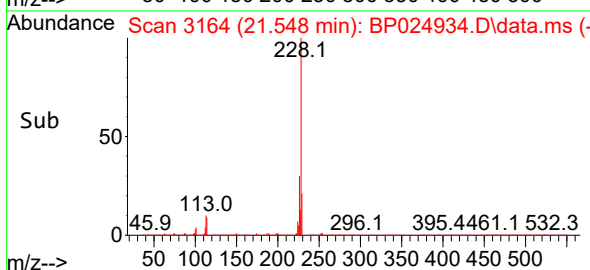
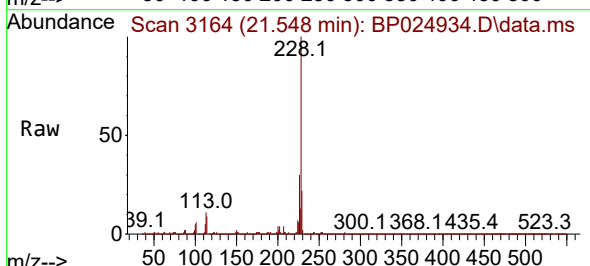
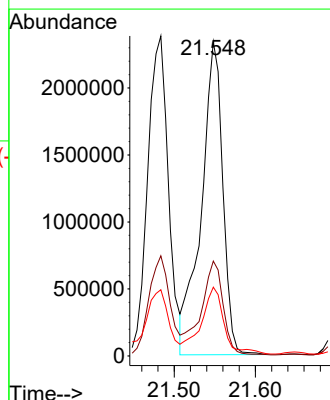
Tgt Ion:228 Resp: 4306396

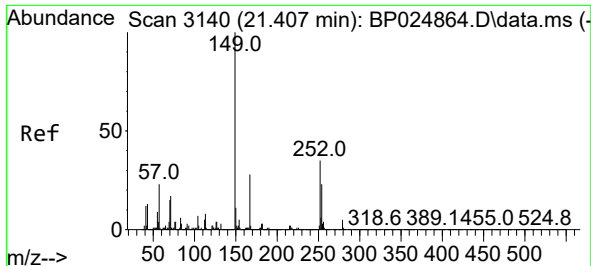
Ion Ratio Lower Upper

228 100

226 30.2 23.8 35.6

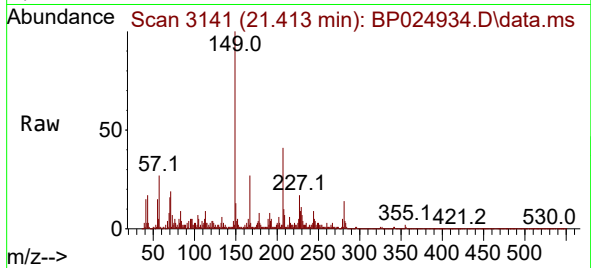
229 21.9 15.6 23.4





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.109 ng  
RT: 21.413 min Scan# 3140  
Delta R.T. 0.006 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



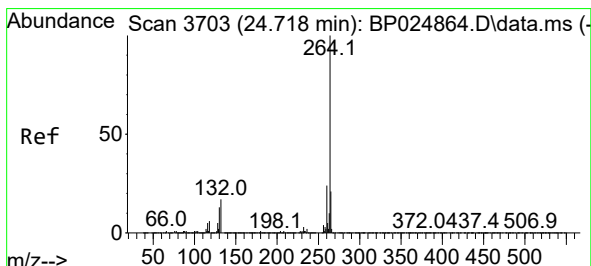
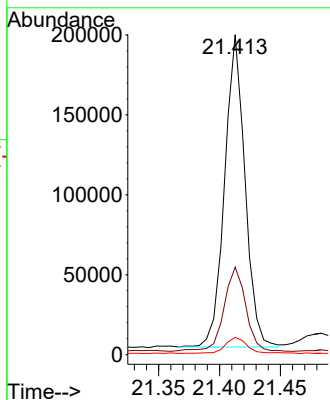
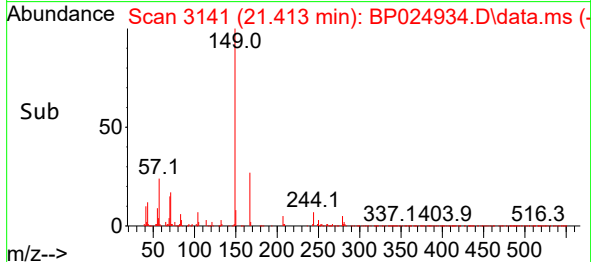
Tgt Ion:149 Resp: 22764  
Ion Ratio Lower Upper  
149 100  
167 27.4 22.2 33.4  
279 5.4 4.0 6.0

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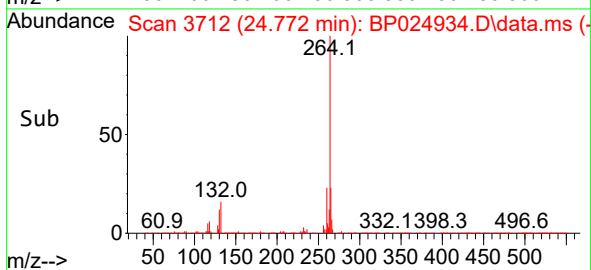
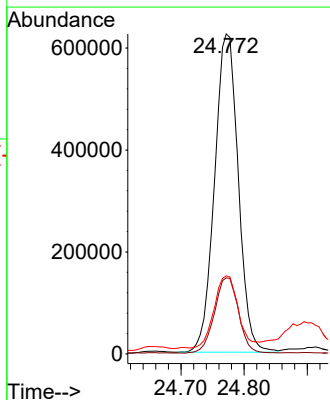
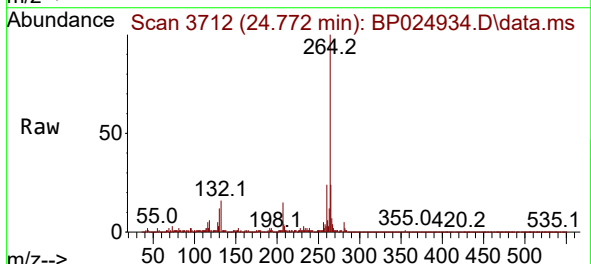
06/13/2025  
Supervised By :Jagrut  
Upadhyay

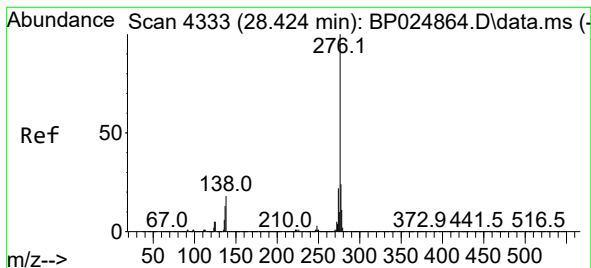
06/13/2025



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.772 min Scan# 3712  
Delta R.T. 0.053 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Tgt Ion:264 Resp: 1630054  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.0 28.4  
265 24.4 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 30.927 ng

RT: 28.495 min Scan# 4333

Delta R.T. 0.071 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

Instrument :

BNA\_P

ClientSampleId :

WC-1

Tgt Ion:276 Resp: 367818

Ion Ratio Lower Upper

276 100

138 19.6 18.6 27.8

277 25.0 20.2 30.4

Manual Integrations

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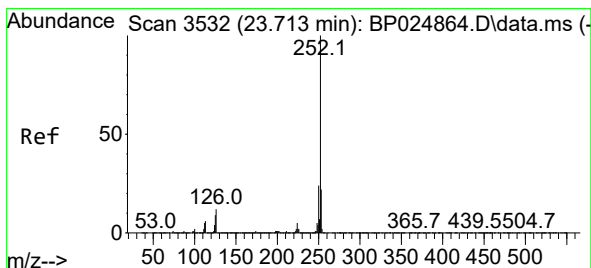
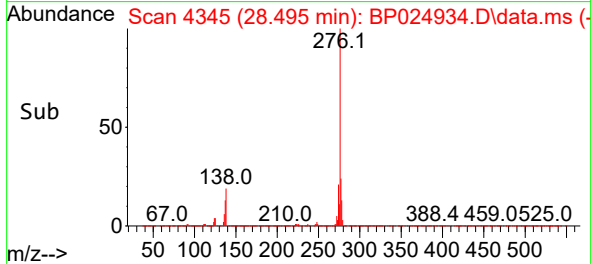
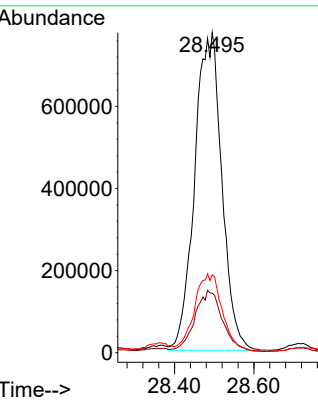
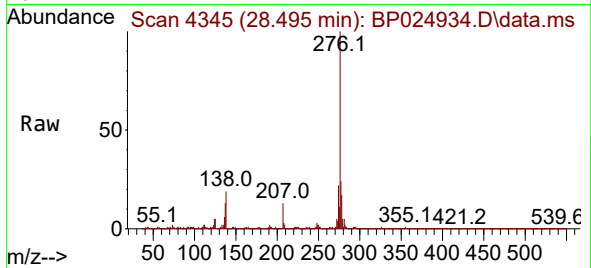
Claudio

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#88

Benzo(b)fluoranthene

Concen: 69.703 ng

RT: 23.742 min Scan# 3537

Delta R.T. 0.030 min

Lab File: BP024934.D

Acq: 12 Jun 2025 17:55

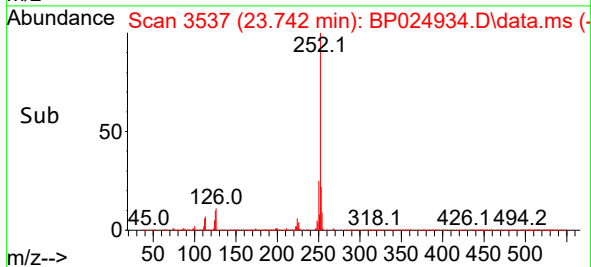
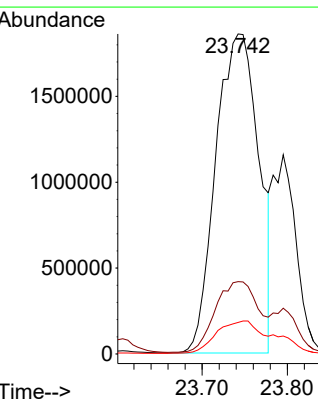
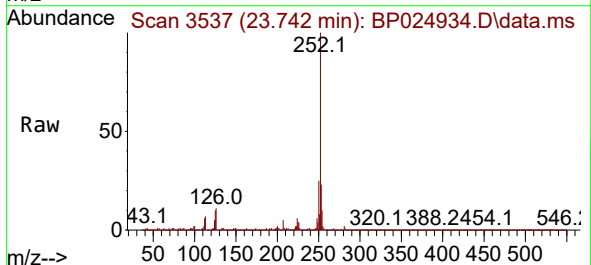
Tgt Ion:252 Resp: 6502479

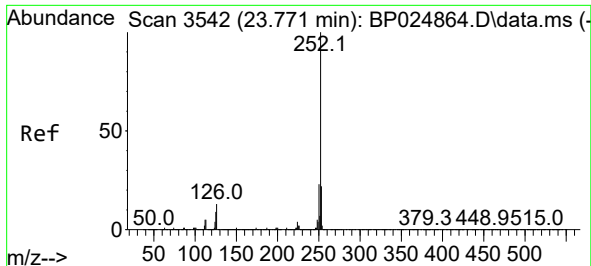
Ion Ratio Lower Upper

252 100

253 22.6 17.6 26.4

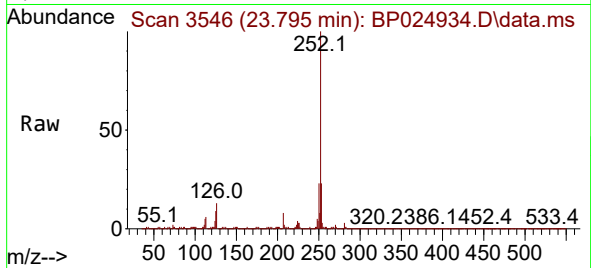
125 9.9 7.1 10.7





#89  
Benzo(k)fluoranthene  
Concen: 23.051 ng m  
RT: 23.795 min Scan# 31  
Delta R.T. 0.024 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



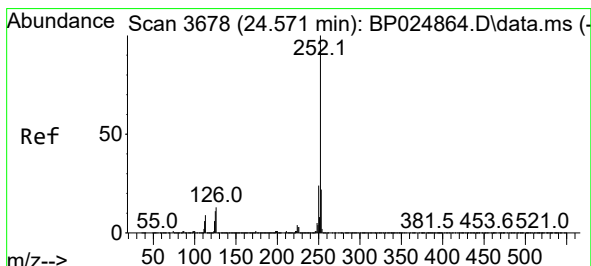
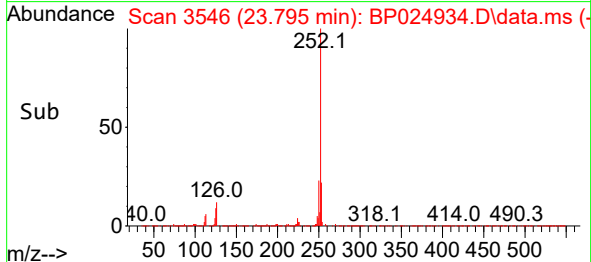
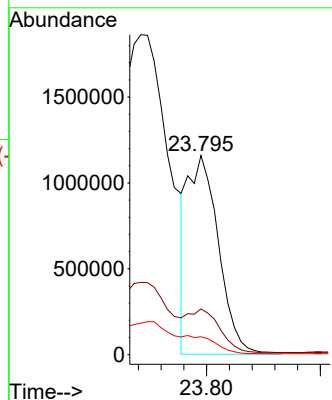
Tgt Ion:252 Resp: 218886  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.7 26.5  
125 9.0 7.4 11.0

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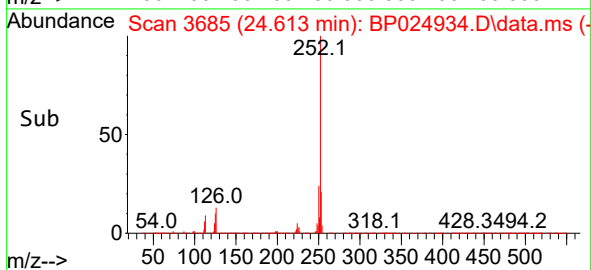
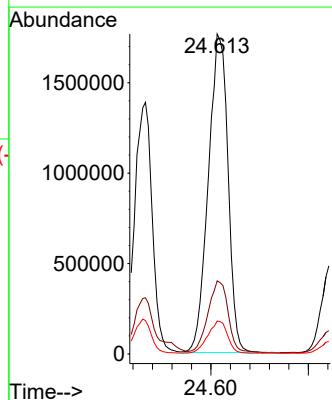
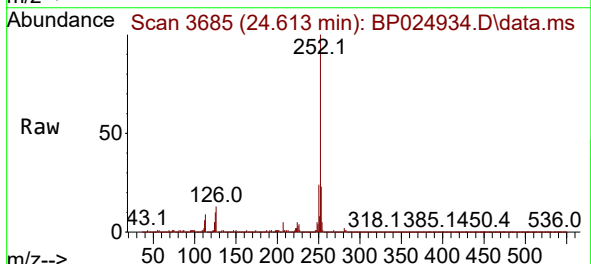
06/13/2025  
Supervised By :Jagrut  
Upadhyay

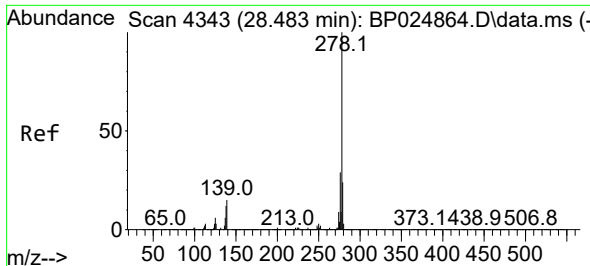
06/13/2025



#90  
Benzo(a)pyrene  
Concen: 54.122 ng  
RT: 24.613 min Scan# 3685  
Delta R.T. 0.041 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

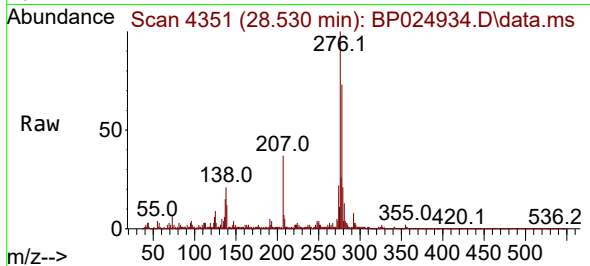
Tgt Ion:252 Resp: 4930705  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 10.3 8.8 13.2





#91  
Dibenzo(a,h)anthracene  
Concen: 10.248 ng  
RT: 28.530 min Scan# 41  
Delta R.T. 0.047 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Instrument :  
BNA\_P  
ClientSampleId :  
WC-1



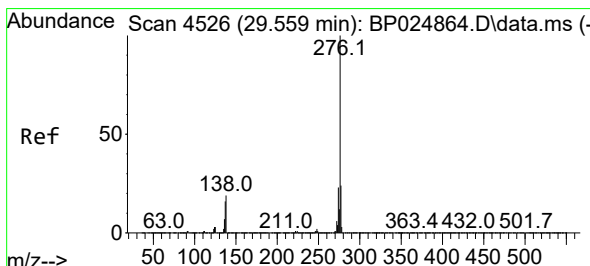
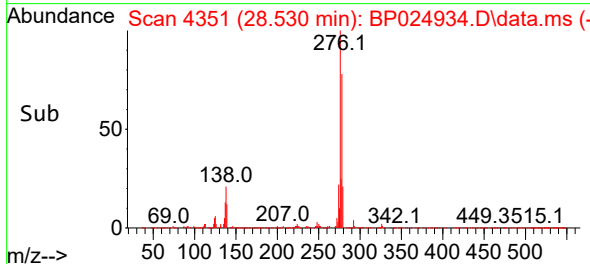
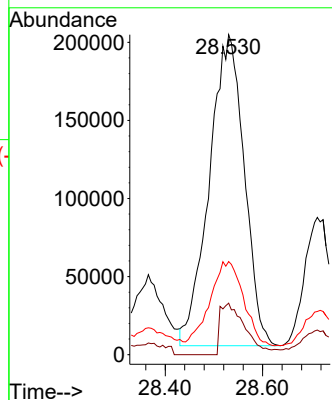
Tgt Ion:278 Resp: 992070  
Ion Ratio Lower Upper  
278 100  
139 16.1 12.0 18.0  
279 29.1 19.1 28.7

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Upadhyay

06/13/2025



#92  
Benzo(g,h,i)perylene  
Concen: 38.967 ng  
RT: 29.642 min Scan# 4540  
Delta R.T. 0.082 min  
Lab File: BP024934.D  
Acq: 12 Jun 2025 17:55

Tgt Ion:276 Resp: 3742883  
Ion Ratio Lower Upper  
276 100  
277 24.2 19.1 28.7  
138 20.0 15.4 23.2

