

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041025\  
 Data File : BM049887.D  
 Acq On : 10 Apr 2025 16:46  
 Operator : RC/JU  
 Sample : Q1739-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 WC-LIQUID-20250404

Quant Time: Apr 10 17:25:07 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 09 04:00:55 2025  
 Response via : Initial Calibration

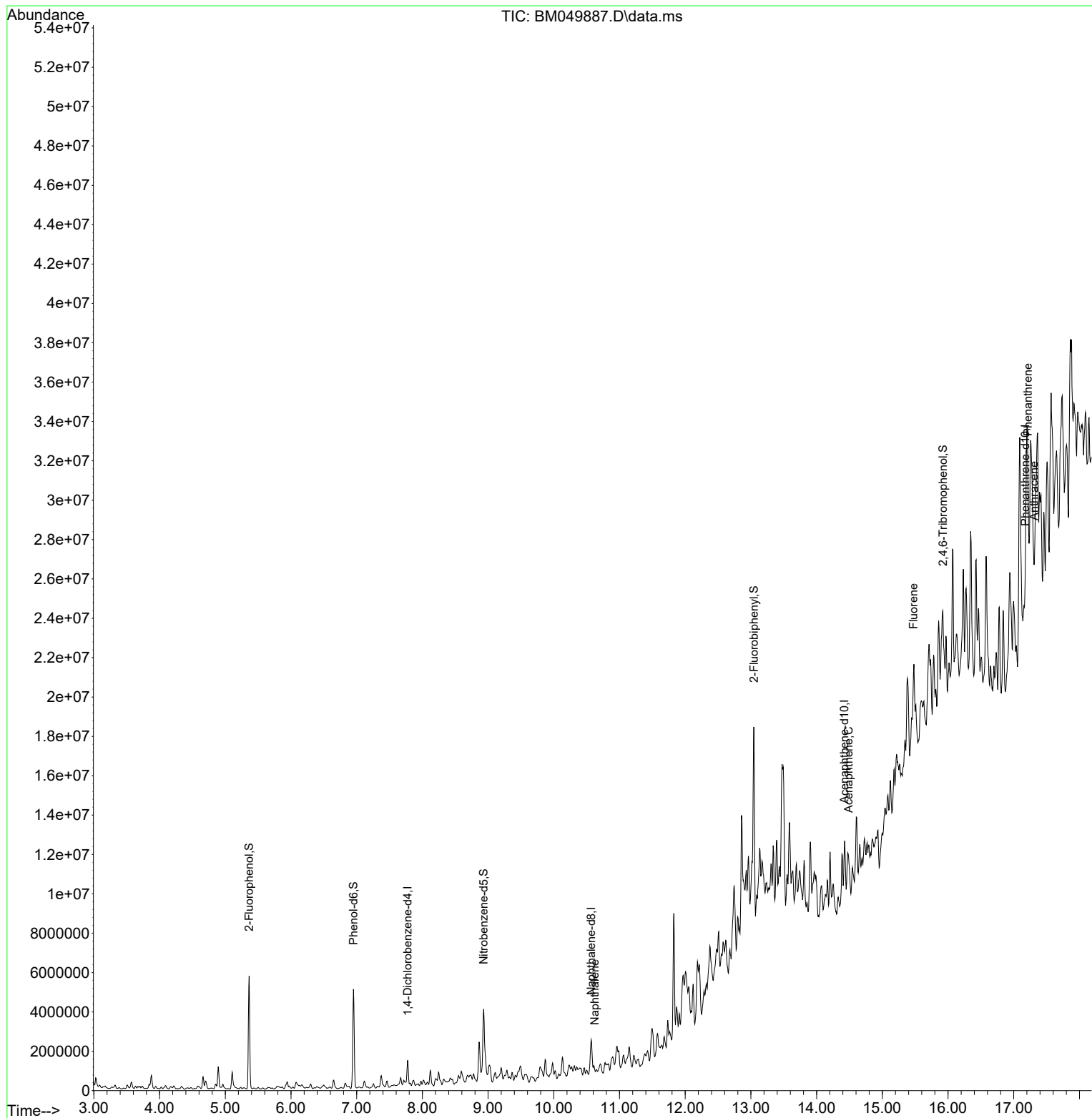
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.775  | 152  | 358611   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.569 | 136  | 1281723  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.421 | 164  | 872039   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.174 | 188  | 1741711  | 20.000  | ng    | 0.01     |
| 76) Chrysene-d12            | 21.433 | 240  | 763660   | 20.000  | ng    | # 0.03   |
| 86) Perylene-d12            | 24.468 | 264  | 2090736  | 20.000  | ng    | 0.06     |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 2581539  | 122.240 | ng    | 0.00     |
| 7) Phenol-d6                | 6.951  | 99   | 2941862  | 111.962 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.933  | 82   | 2084525  | 90.563  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.921 | 330  | 1999799  | 157.662 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 13.045 | 172  | 5961326  | 92.698  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.815 | 244  | 5954452  | 146.124 | ng    | 0.02     |
| Target Compounds            |        |      |          |         |       |          |
|                             |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 10.622 | 128  | 134597   | 2.044   | ng    | # 94     |
| 52) Acenaphthene            | 14.486 | 154  | 296602   | 6.283   | ng    | 98       |
| 58) Fluorene                | 15.474 | 166  | 131487   | 2.096   | ng    | # 72     |
| 71) Phenanthrene            | 17.215 | 178  | 944184   | 9.888   | ng    | # 87     |
| 72) Anthracene              | 17.309 | 178  | 491977   | 5.228   | ng    | # 78     |
| 75) Fluoranthene            | 19.244 | 202  | 4186907  | 35.662  | ng    | # 42     |
| 78) Pyrene                  | 19.609 | 202  | 4507158  | 85.638  | ng    | # 72     |
| 81) Benzo(a)anthracene      | 21.421 | 228  | 728722   | 14.358  | ng    | # 56     |
| 83) Chrysene                | 21.486 | 228  | 431882   | 8.951   | ng    | # 51     |
| 87) Indeno(1,2,3-cd)pyrene  | 27.844 | 276  | 400940   | 2.573   | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 23.527 | 252  | 1600999  | 11.990  | ng    | # 57     |
| 89) Benzo(k)fluoranthene    | 23.574 | 252  | 567255m  | 4.384   | ng    |          |
| 90) Benzo(a)pyrene          | 24.327 | 252  | 804802   | 6.859   | ng    | # 46     |
| 92) Benzo(g,h,i)perylene    | 28.897 | 276  | 333461   | 2.542   | ng    | # 76     |
| -----                       |        |      |          |         |       |          |

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

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Sample : Q1739-02  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

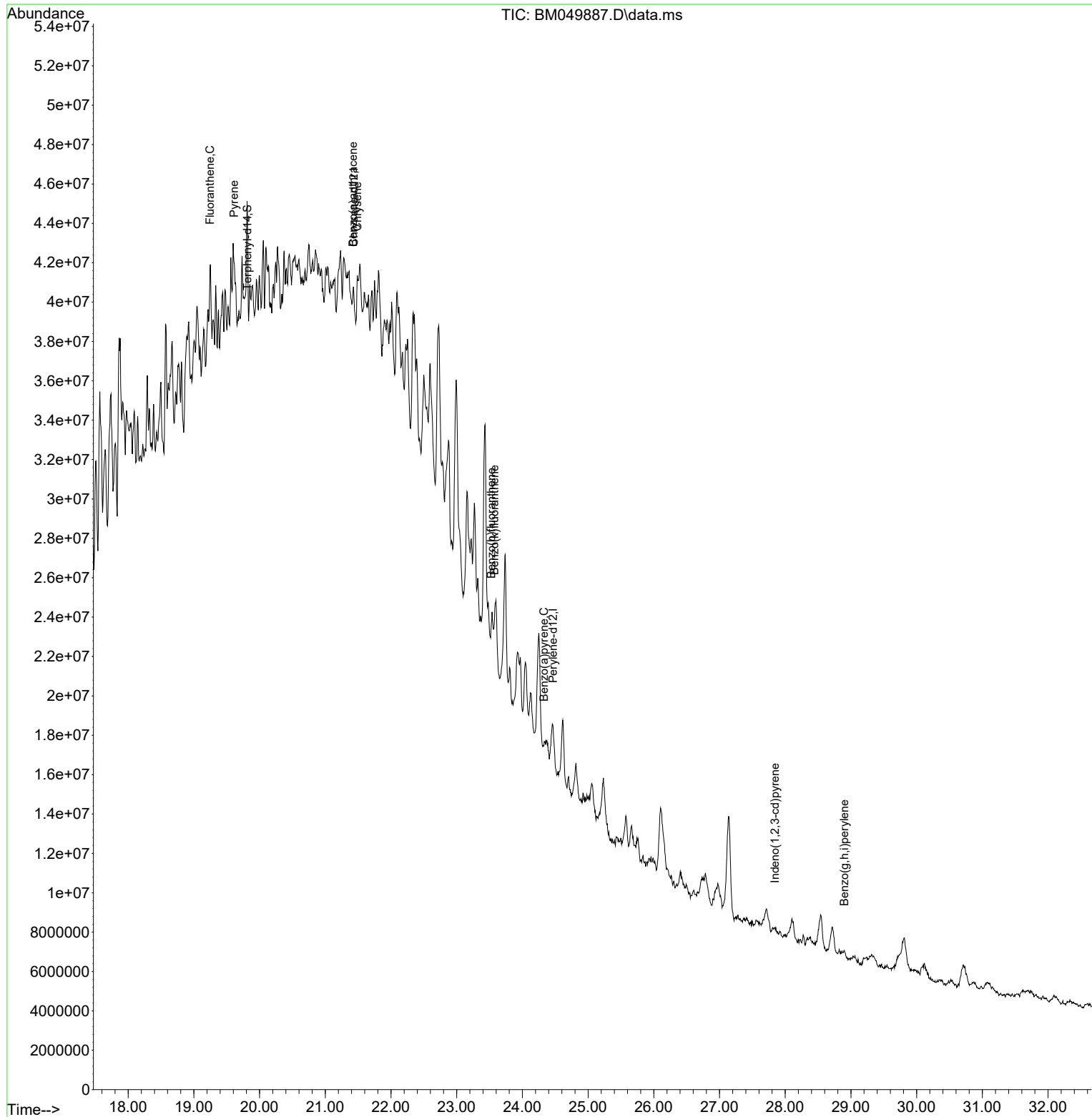
Quant Time: Apr 10 17:25:07 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
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Data File : BM049887.D  
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Quant Time: Apr 10 17:25:07 2025  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
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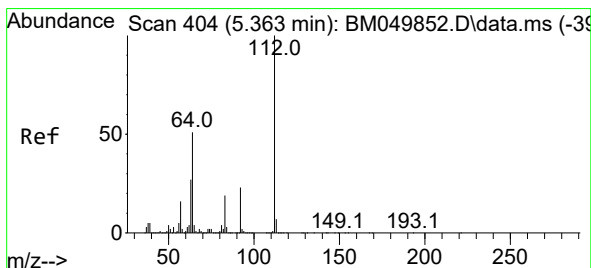
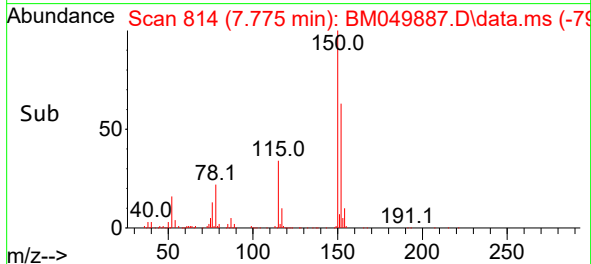
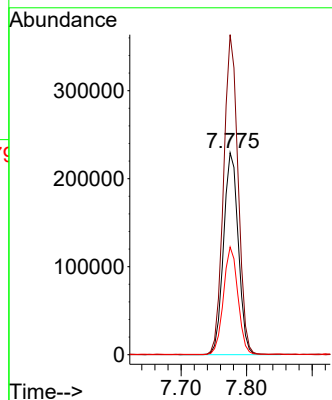
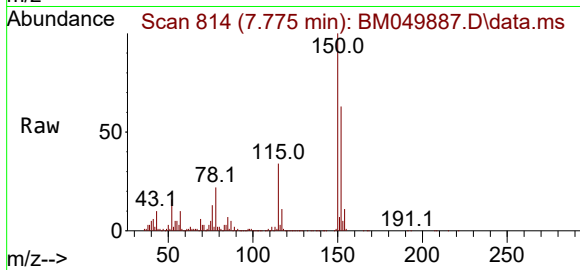




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.775 min Scan# 815  
Delta R.T. -0.006 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

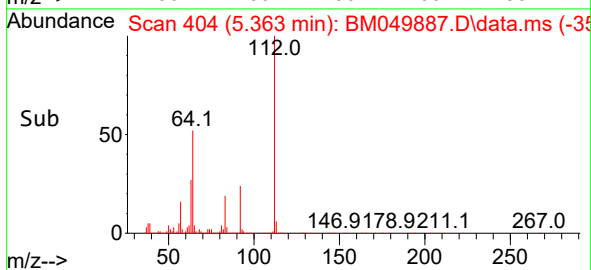
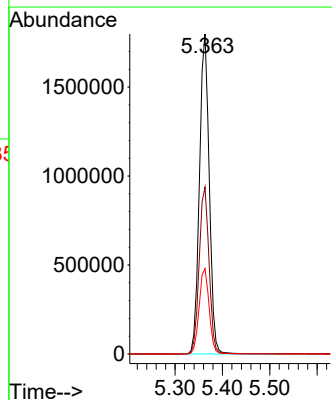
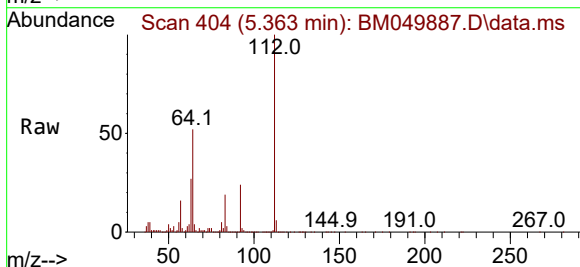
Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

Tgt Ion:152 Resp: 358611  
Ion Ratio Lower Upper  
152 100  
150 158.5 124.3 186.5  
115 53.3 41.1 61.7



#5  
2-Fluorophenol  
Concen: 122.240 ng  
RT: 5.363 min Scan# 404  
Delta R.T. -0.000 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Tgt Ion:112 Resp: 2581539  
Ion Ratio Lower Upper  
112 100  
64 52.1 41.0 61.6  
63 26.7 21.5 32.3



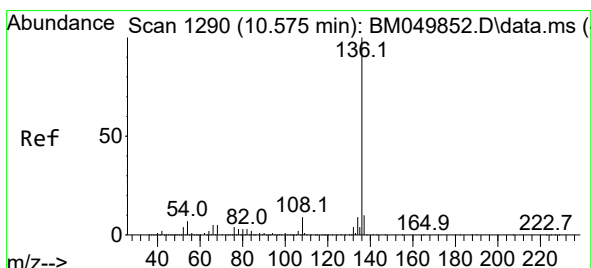
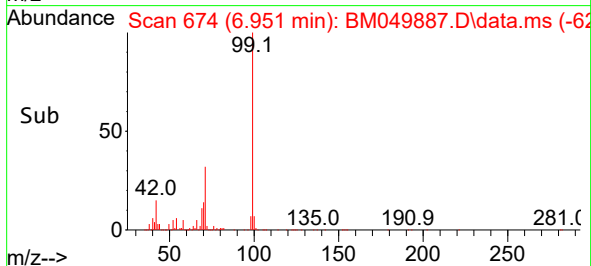
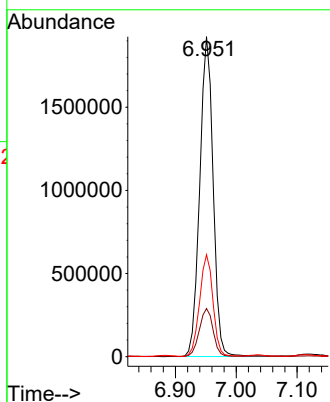
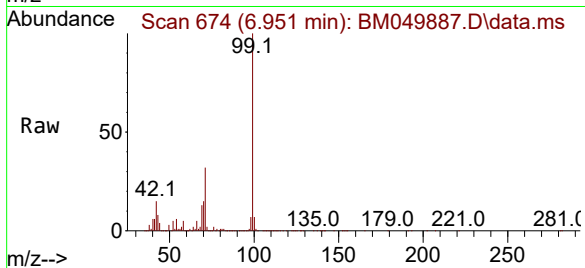


#7  
Phenol-d6  
Concen: 111.962 ng  
RT: 6.951 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

Tgt Ion: 99 Resp: 2941862

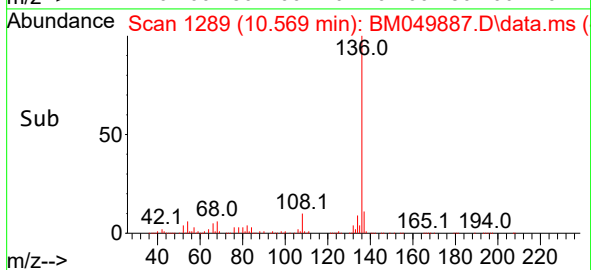
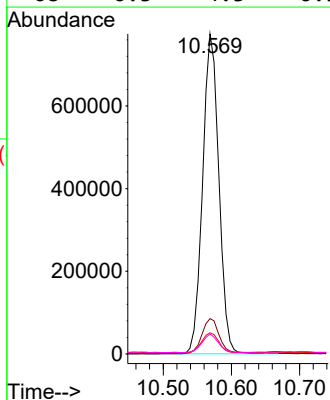
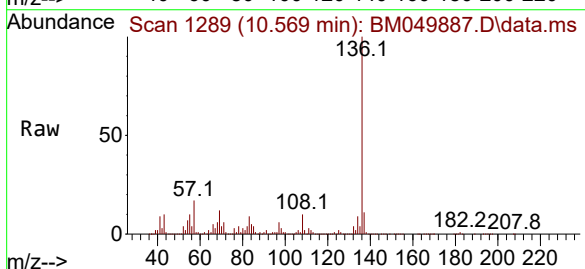
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.1  | 12.1  | 18.1  |
| 71  | 31.9  | 24.9  | 37.3  |

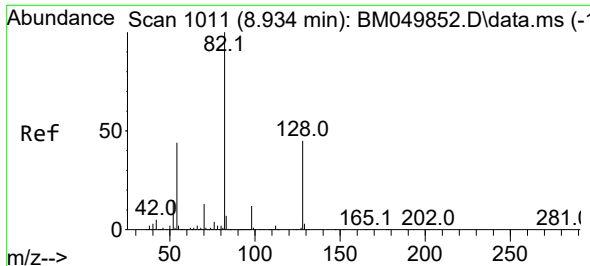


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.569 min Scan# 1289  
Delta R.T. -0.006 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Tgt Ion: 136 Resp: 1281723

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.4   | 12.6  |
| 54  | 6.6   | 5.3   | 7.9   |
| 68  | 6.3   | 4.3   | 6.5   |

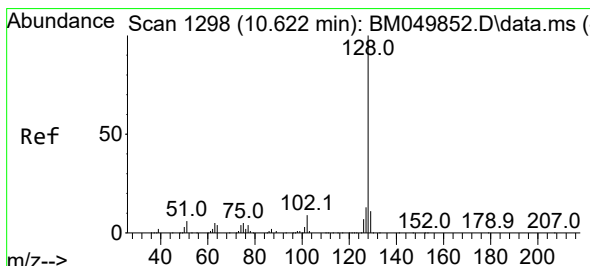
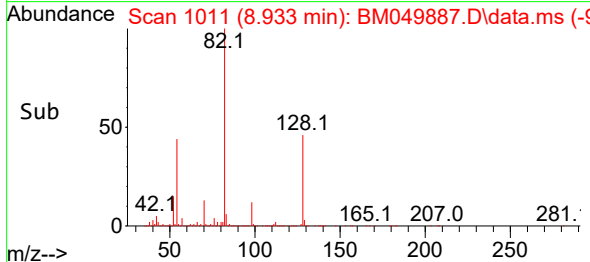
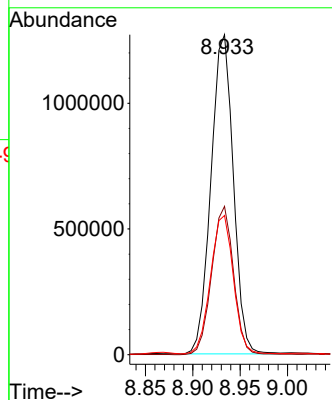
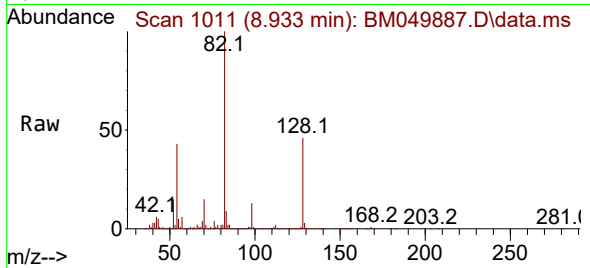




#23  
Nitrobenzene-d5  
Concen: 90.563 ng  
RT: 8.933 min Scan# 1011  
Delta R.T. -0.000 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

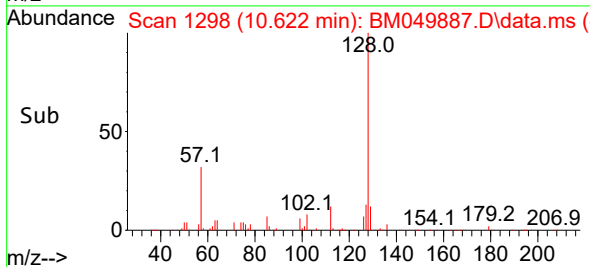
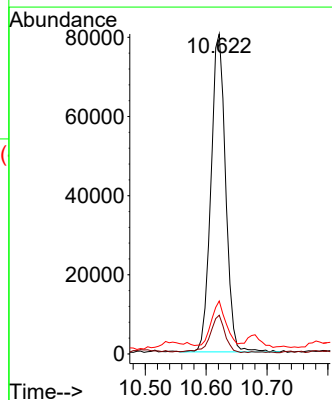
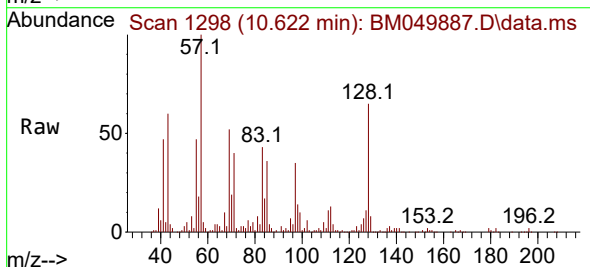
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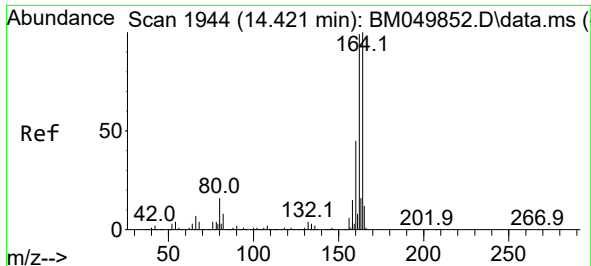
Tgt Ion: 82 Resp: 2084525  
Ion Ratio Lower Upper  
82 100  
128 46.3 36.2 54.2  
54 43.5 35.0 52.6



#31  
Naphthalene  
Concen: 2.044 ng  
RT: 10.622 min Scan# 1298  
Delta R.T. -0.000 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

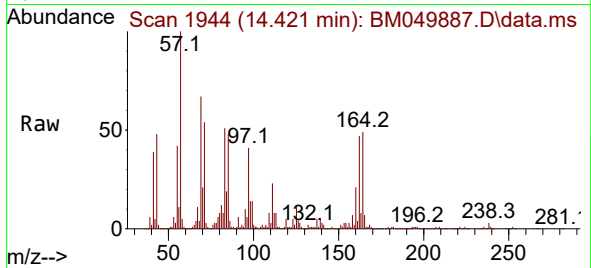
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Ion Ratio Lower Upper  
128 100  
129 12.1 8.8 13.2  
127 16.5 10.6 15.8



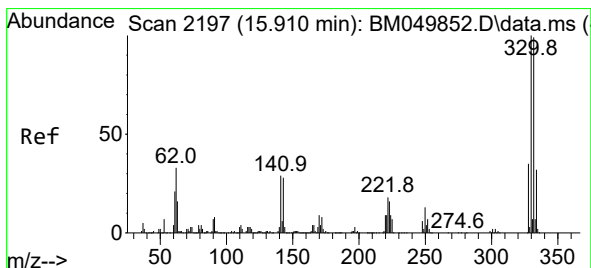
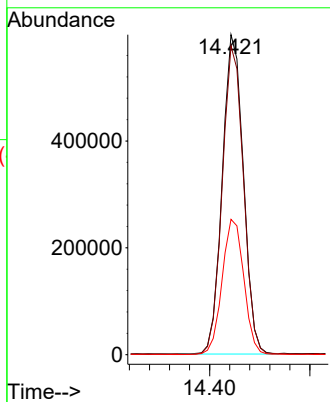
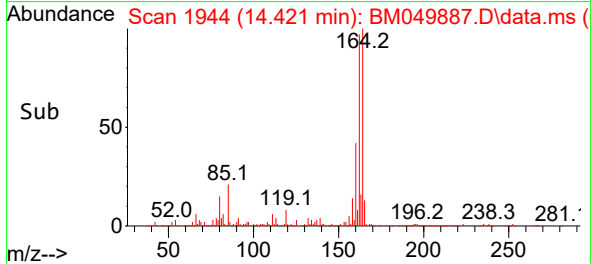


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.421 min Scan# 1944  
Delta R.T. -0.000 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

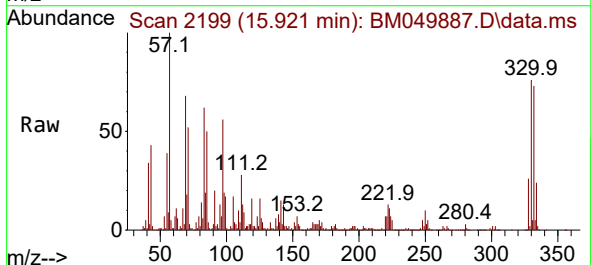
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ClientSampleId :  
WC-LIQUID-20250404



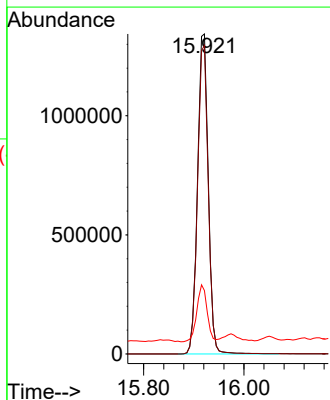
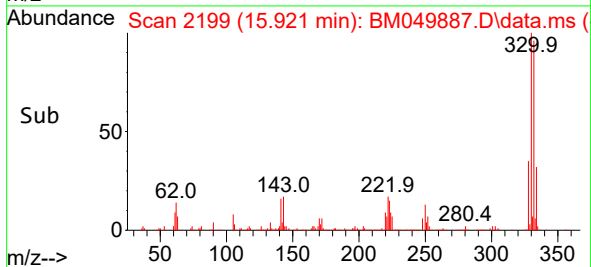
Tgt Ion:164 Resp: 872039  
Ion Ratio Lower Upper  
164 100  
162 96.4 79.4 119.0  
160 42.3 36.2 54.2

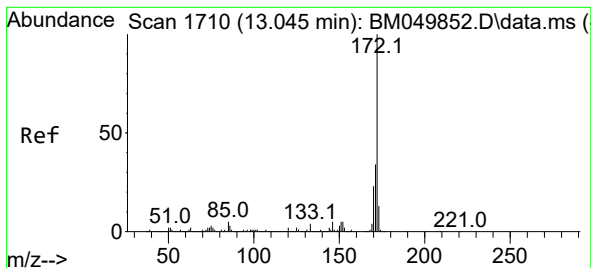


#42  
2,4,6-Tribromophenol  
Concen: 157.662 ng  
RT: 15.921 min Scan# 2199  
Delta R.T. 0.012 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46



Tgt Ion:330 Resp: 1999799  
Ion Ratio Lower Upper  
330 100  
332 96.1 78.0 117.0  
141 17.1 23.5 35.3#





#45

2-Fluorobiphenyl

Concen: 92.698 ng

RT: 13.045 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA\_M

ClientSampleId :

WC-LIQUID-20250404

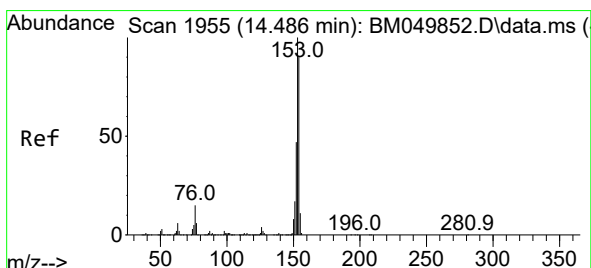
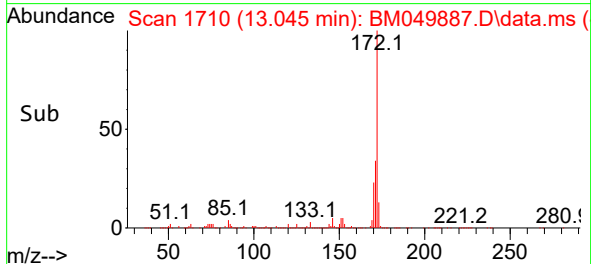
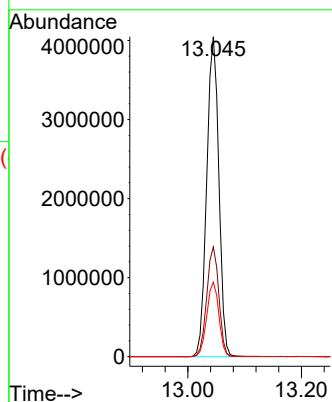
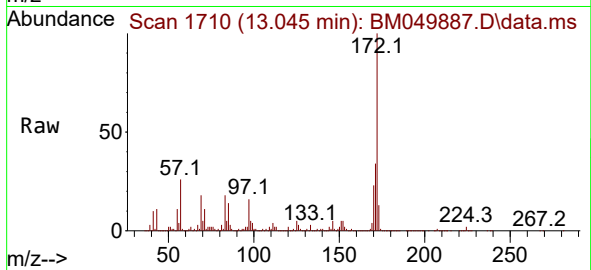
Tgt Ion:172 Resp: 5961326

Ion Ratio Lower Upper

172 100

171 34.3 27.4 41.2

170 23.3 18.6 28.0



#52

Acenaphthene

Concen: 6.283 ng

RT: 14.486 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

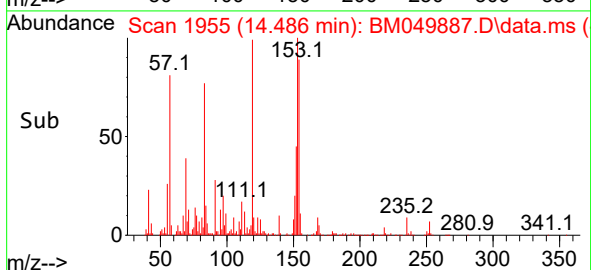
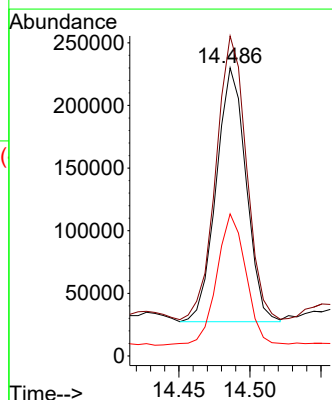
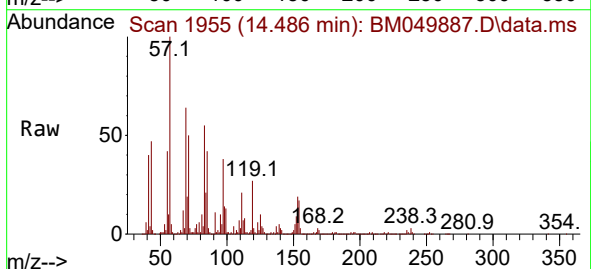
Tgt Ion:154 Resp: 296602

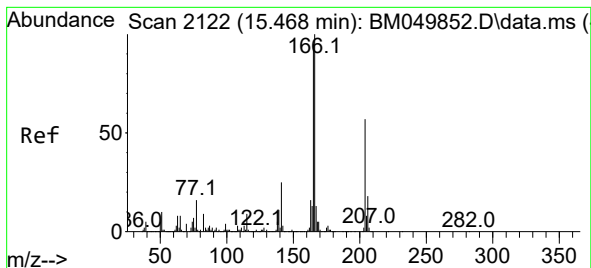
Ion Ratio Lower Upper

154 100

153 111.0 89.3 133.9

152 49.3 42.2 63.2





#58

Fluorene

Concen: 2.096 ng

RT: 15.474 min Scan# 2122

Delta R.T. 0.006 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

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ClientSampleId :

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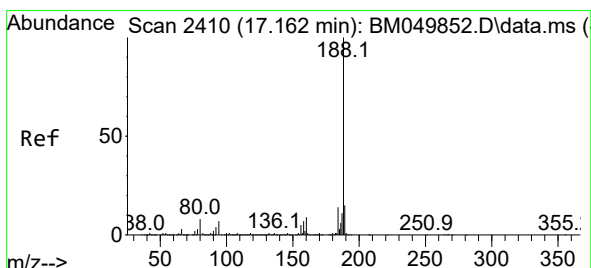
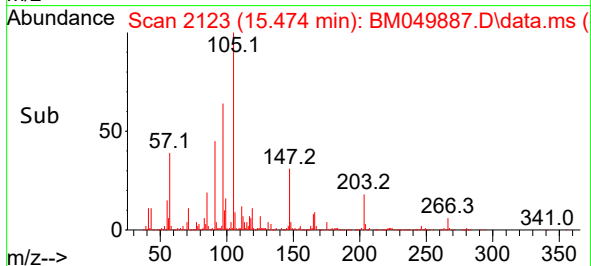
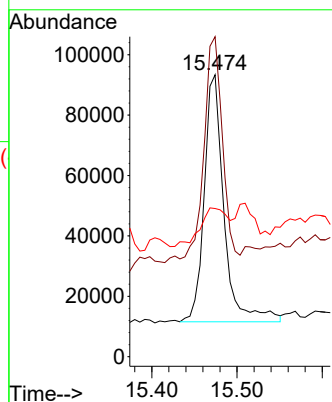
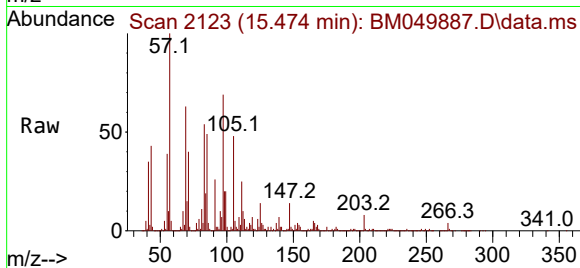
Tgt Ion:166 Resp: 131487

Ion Ratio Lower Upper

166 100

165 113.5 76.3 114.5

167 52.6 10.7 16.1#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.174 min Scan# 2412

Delta R.T. 0.012 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

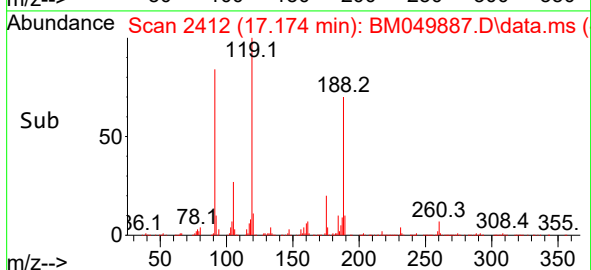
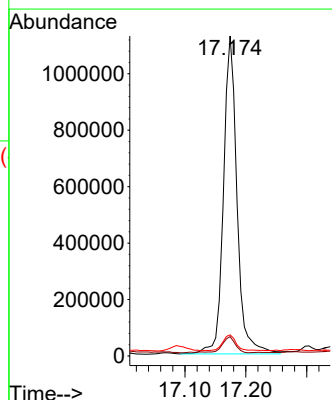
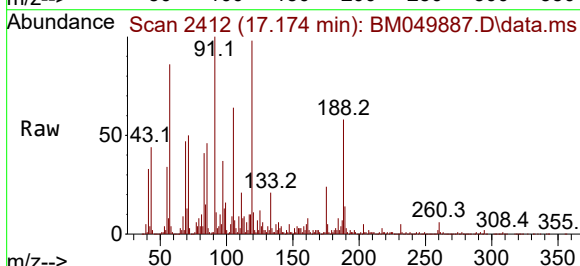
Tgt Ion:188 Resp: 1741711

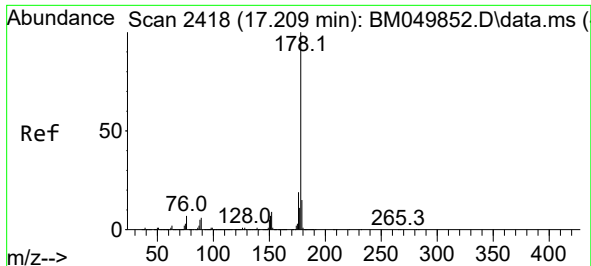
Ion Ratio Lower Upper

188 100

94 6.1 5.8 8.6

80 6.6 6.4 9.6

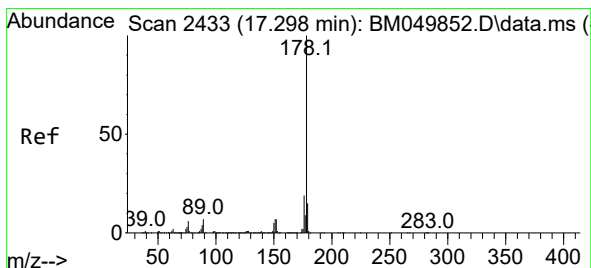
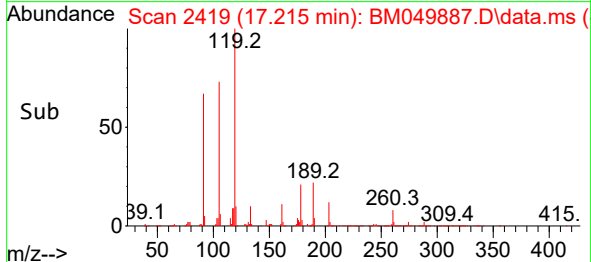
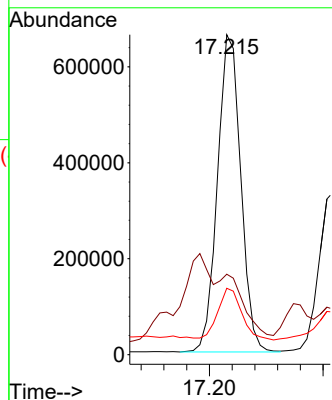
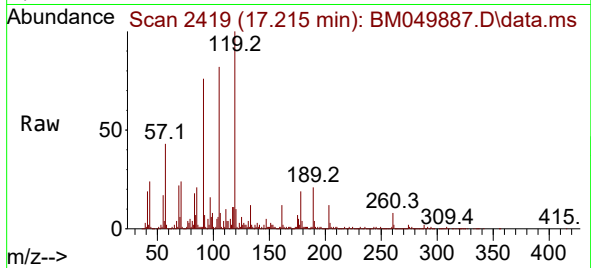




#71  
Phenanthrene  
Concen: 9.888 ng  
RT: 17.215 min Scan# 2418  
Delta R.T. 0.006 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

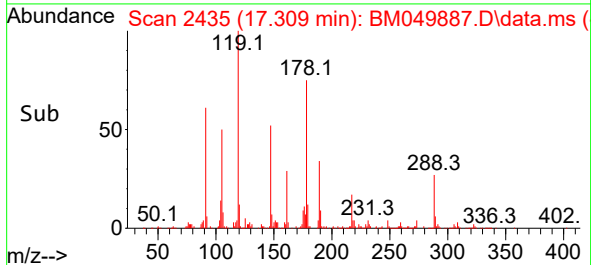
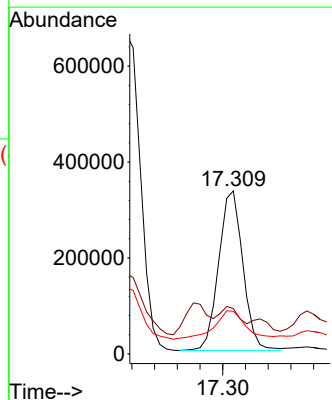
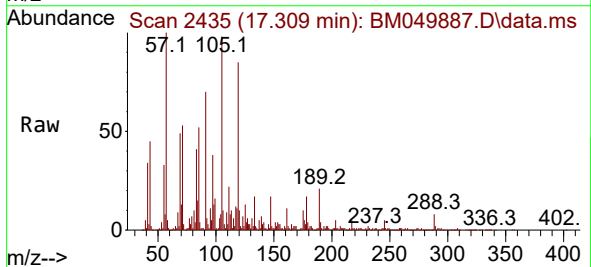
Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

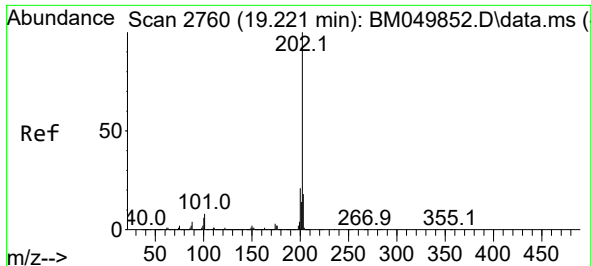
Tgt Ion:178 Resp: 944184  
Ion Ratio Lower Upper  
178 100  
176 25.1 15.4 23.2#  
179 20.8 12.3 18.5#



#72  
Anthracene  
Concen: 5.228 ng  
RT: 17.309 min Scan# 2435  
Delta R.T. 0.012 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Tgt Ion:178 Resp: 491977  
Ion Ratio Lower Upper  
178 100  
176 27.9 15.1 22.7#  
179 26.2 12.4 18.6#

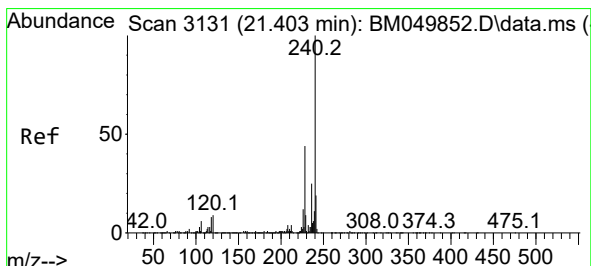
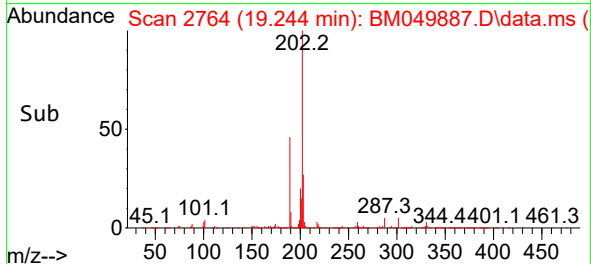
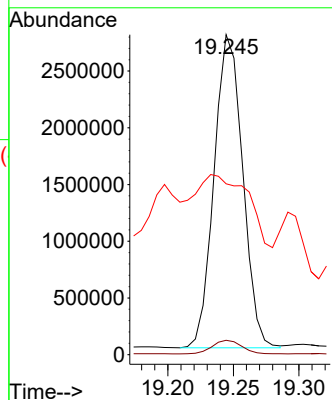
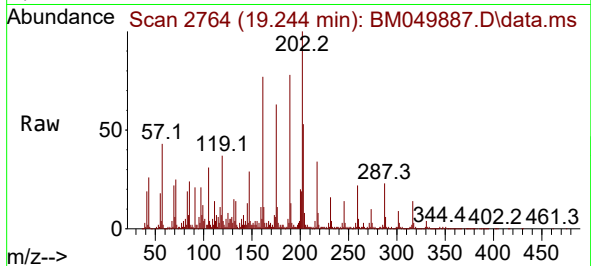




#75  
Fluoranthene  
Concen: 35.662 ng  
RT: 19.244 min Scan# 21  
Delta R.T. 0.023 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

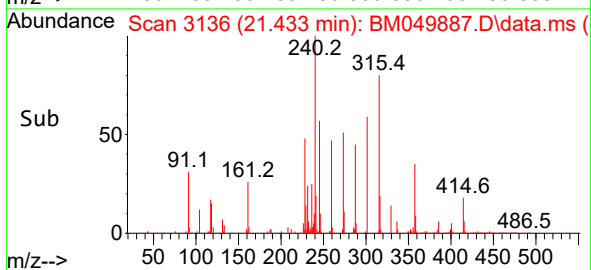
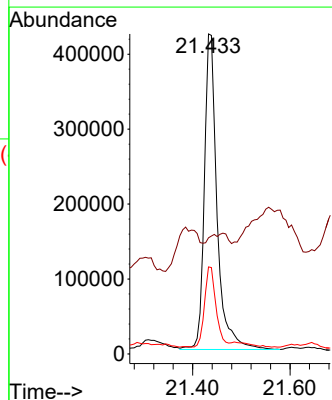
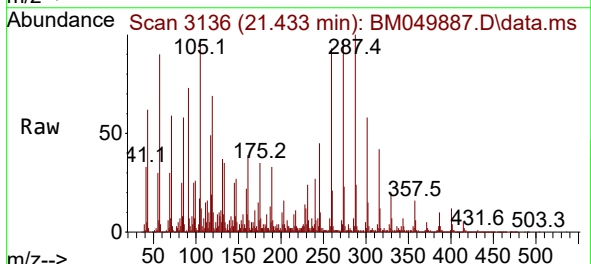
Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

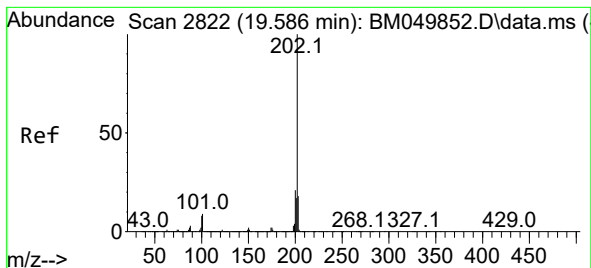
Tgt Ion:202 Resp: 4186907  
Ion Ratio Lower Upper  
202 100  
101 4.5 0.0 28.4  
203 53.4 0.0 37.8#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.433 min Scan# 3136  
Delta R.T. 0.029 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Tgt Ion:240 Resp: 763660  
Ion Ratio Lower Upper  
240 100  
120 36.3 6.9 10.3#  
236 27.2 20.4 30.6





#78

Pyrene

Concen: 85.638 ng

RT: 19.609 min Scan# 2826

Delta R.T. 0.023 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA\_M

ClientSampleId :

WC-LIQUID-20250404

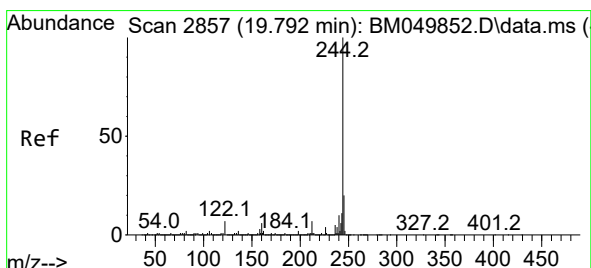
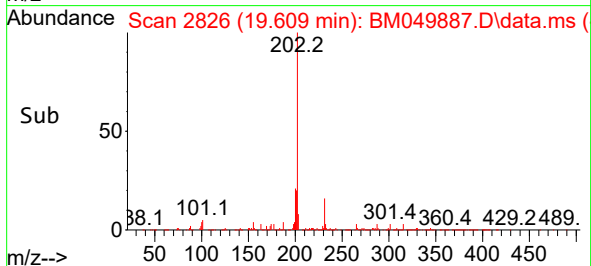
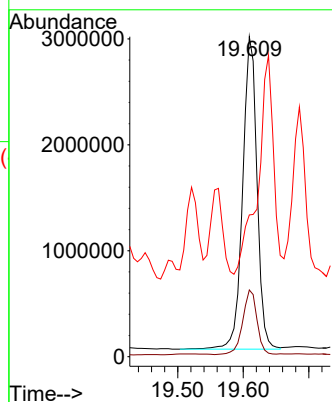
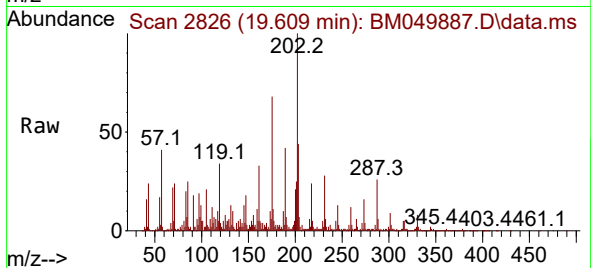
Tgt Ion:202 Resp: 4507158

Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 44.3 14.0 21.0#



#79

Terphenyl-d14

Concen: 146.124 ng

RT: 19.815 min Scan# 2861

Delta R.T. 0.023 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

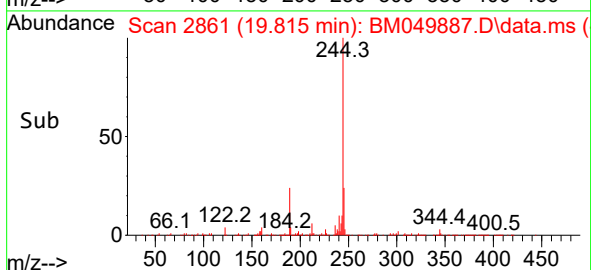
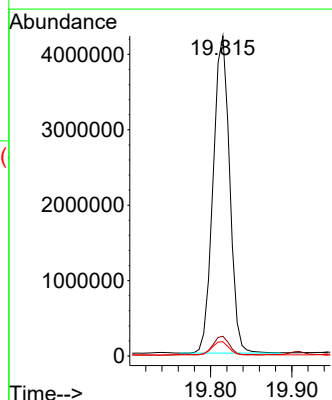
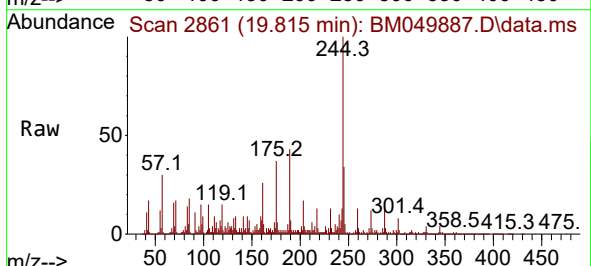
Tgt Ion:244 Resp: 5954452

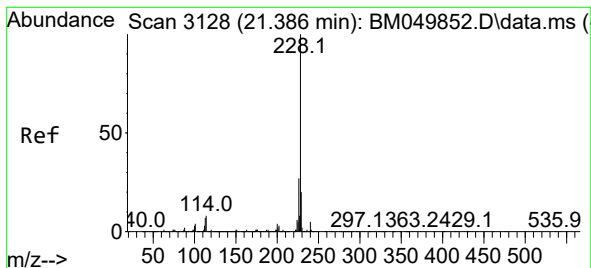
Ion Ratio Lower Upper

244 100

212 6.2 5.5 8.3

122 4.4 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 14.358 ng

RT: 21.421 min Scan# 31

Delta R.T. 0.035 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA\_M

ClientSampleId :

WC-LIQUID-20250404

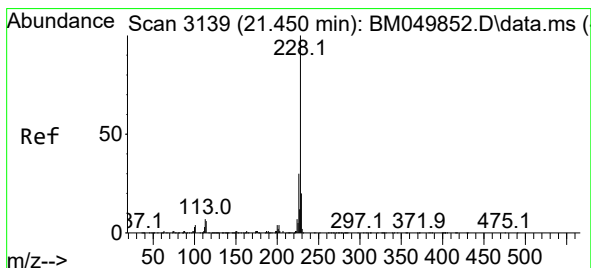
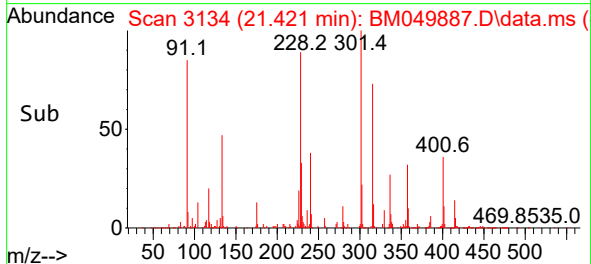
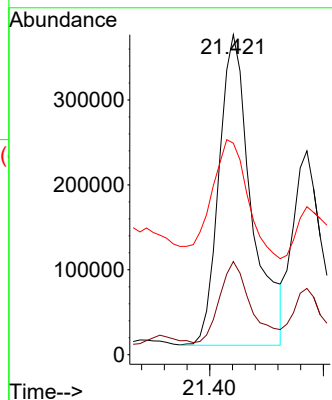
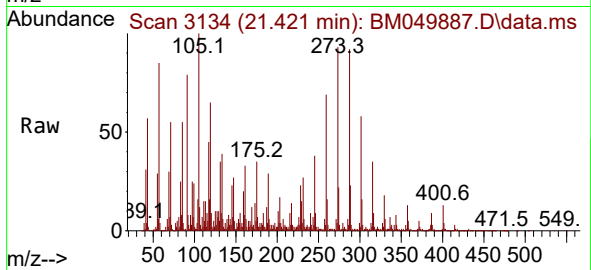
Tgt Ion:228 Resp: 728722

Ion Ratio Lower Upper

228 100

226 29.1 21.8 32.8

229 66.1 15.8 23.8#



#83

Chrysene

Concen: 8.951 ng

RT: 21.486 min Scan# 3145

Delta R.T. 0.035 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

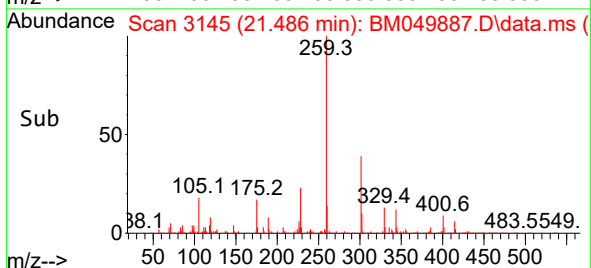
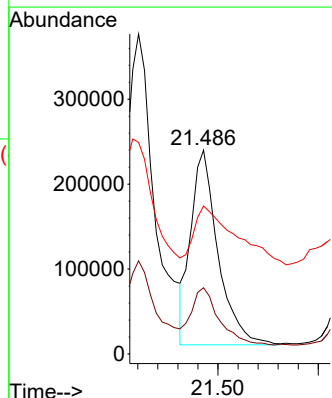
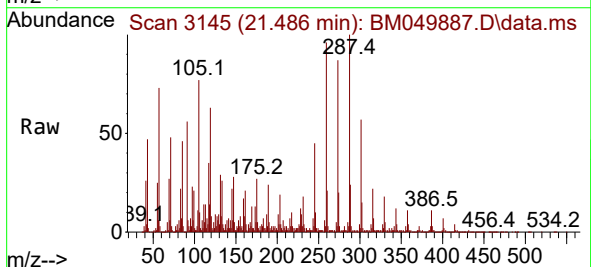
Tgt Ion:228 Resp: 431882

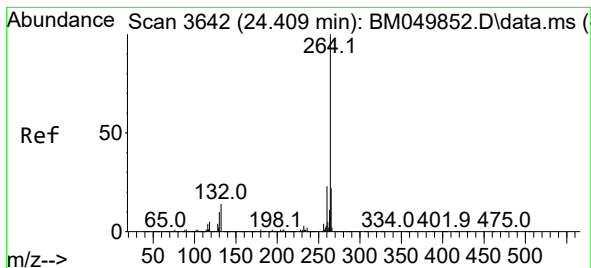
Ion Ratio Lower Upper

228 100

226 32.5 24.1 36.1

229 72.6 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.468 min Scan# 3

Delta R.T. 0.059 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA\_M

ClientSampleId :

WC-LIQUID-20250404

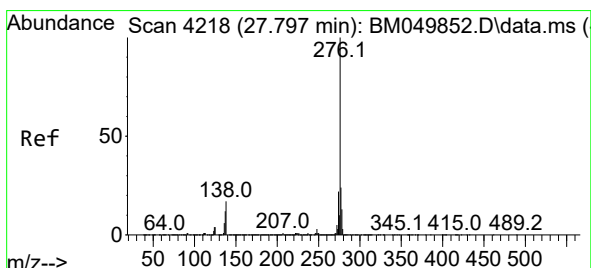
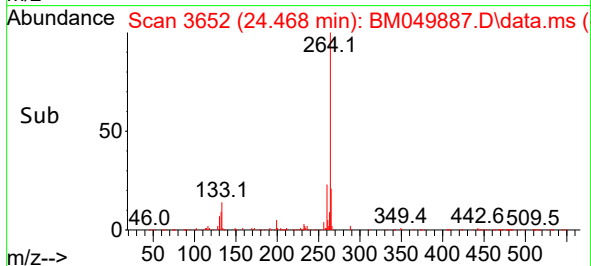
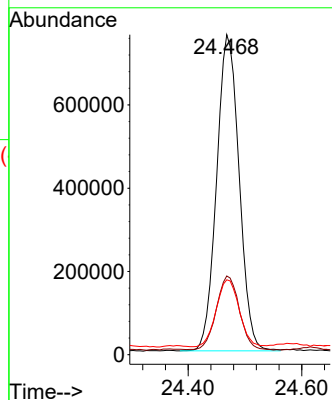
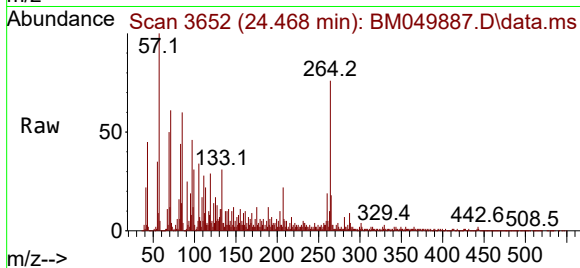
Tgt Ion:264 Resp: 2090736

Ion Ratio Lower Upper

264 100

260 24.6 18.6 28.0

265 23.4 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.573 ng

RT: 27.844 min Scan# 4226

Delta R.T. 0.047 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

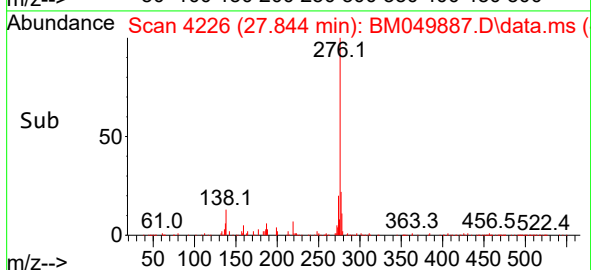
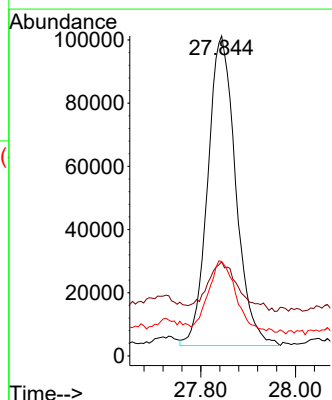
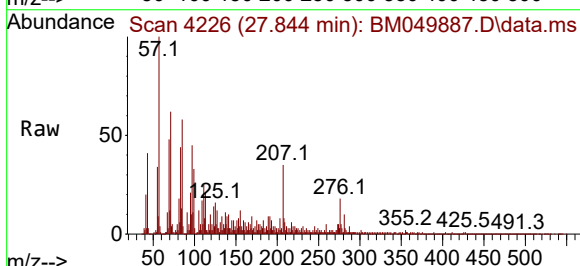
Tgt Ion:276 Resp: 400940

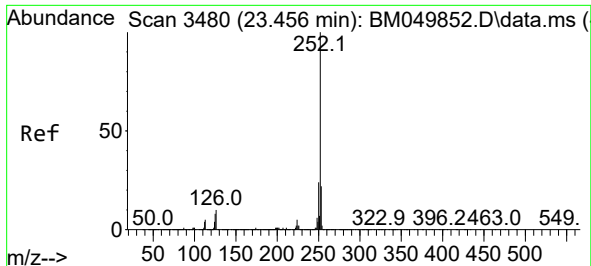
Ion Ratio Lower Upper

276 100

138 17.9 16.8 25.2

277 21.8 20.1 30.1

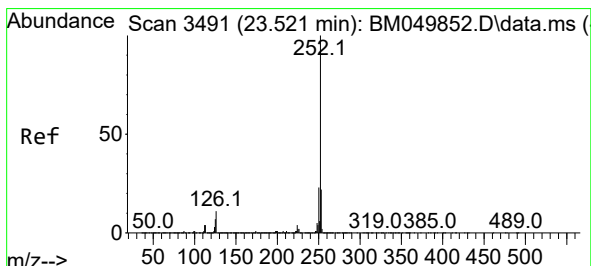
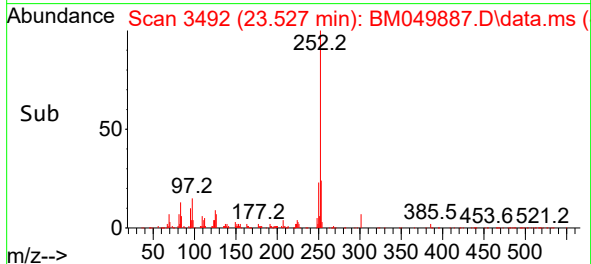
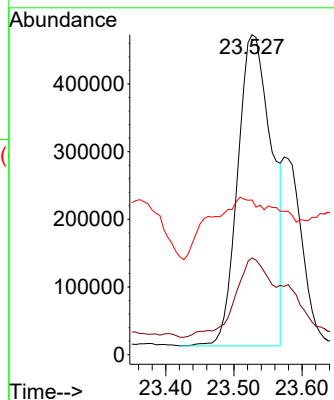
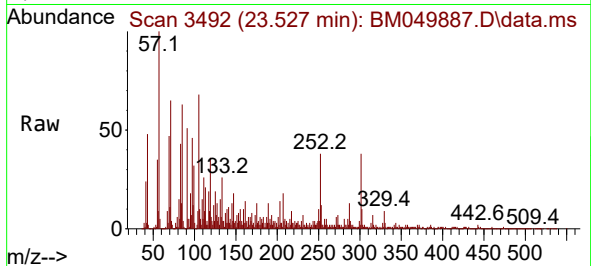




#88  
Benzo(b)fluoranthene  
Concen: 11.990 ng  
RT: 23.527 min Scan# 34  
Delta R.T. 0.070 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

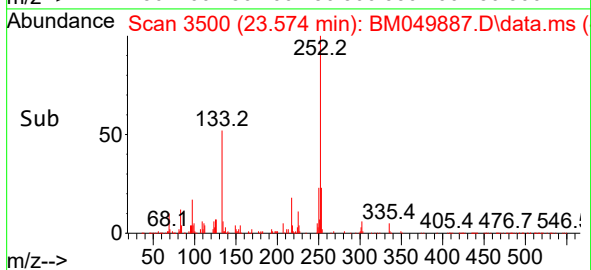
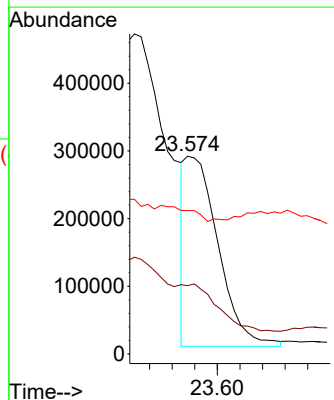
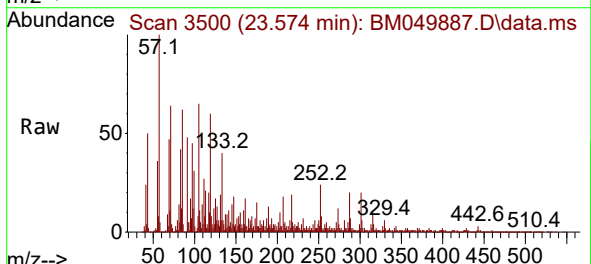
Instrument :  
BNA\_M  
ClientSampleId :  
WC-LIQUID-20250404

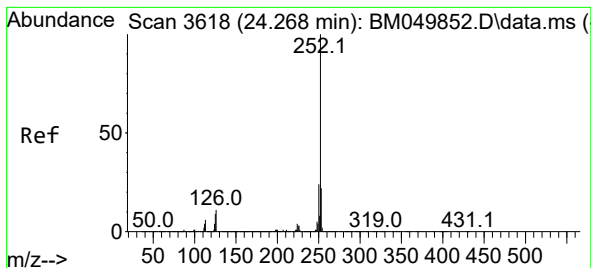
Tgt Ion:252 Resp: 1600999  
Ion Ratio Lower Upper  
252 100  
253 30.2 17.5 26.3#  
125 48.3 6.2 9.4#



#89  
Benzo(k)fluoranthene  
Concen: 4.384 ng m  
RT: 23.574 min Scan# 3500  
Delta R.T. 0.053 min  
Lab File: BM049887.D  
Acq: 10 Apr 2025 16:46

Tgt Ion:252 Resp: 567255  
Ion Ratio Lower Upper  
252 100  
253 34.6 17.4 26.2#  
125 72.5 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 6.859 ng

RT: 24.327 min Scan# 3

Delta R.T. 0.059 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Instrument :

BNA\_M

ClientSampleId :

WC-LIQUID-20250404

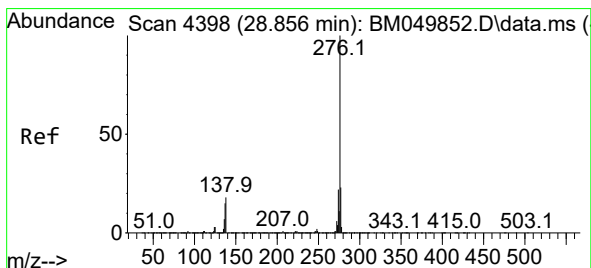
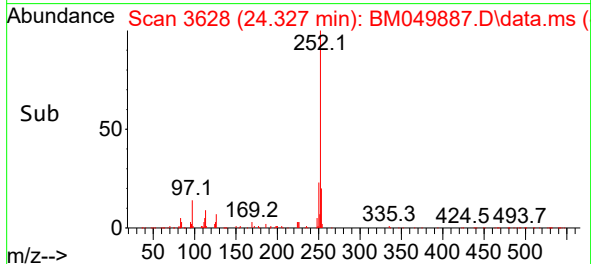
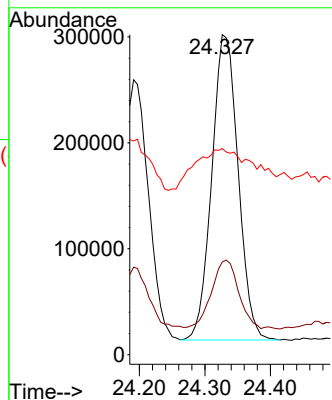
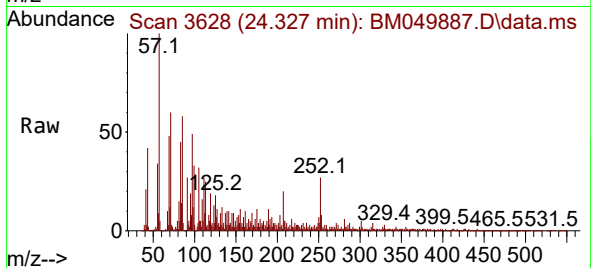
Tgt Ion:252 Resp: 804802

Ion Ratio Lower Upper

252 100

253 29.0 17.8 26.8#

125 64.4 7.0 10.4#



#92

Benzo(g,h,i)perylene

Concen: 2.542 ng

RT: 28.897 min Scan# 4405

Delta R.T. 0.041 min

Lab File: BM049887.D

Acq: 10 Apr 2025 16:46

Tgt Ion:276 Resp: 333461

Ion Ratio Lower Upper

276 100

277 31.1 18.7 28.1#

138 33.3 14.6 21.8#

