

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG103025\  
 Data File : BG064651.D  
 Acq On : 30 Oct 2025 21:54  
 Operator : RC/JU  
 Sample : Q3488-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-25-0311-0313

Quant Time: Oct 31 01:50:11 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG102425.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 24 16:40:26 2025  
 Response via : Initial Calibration

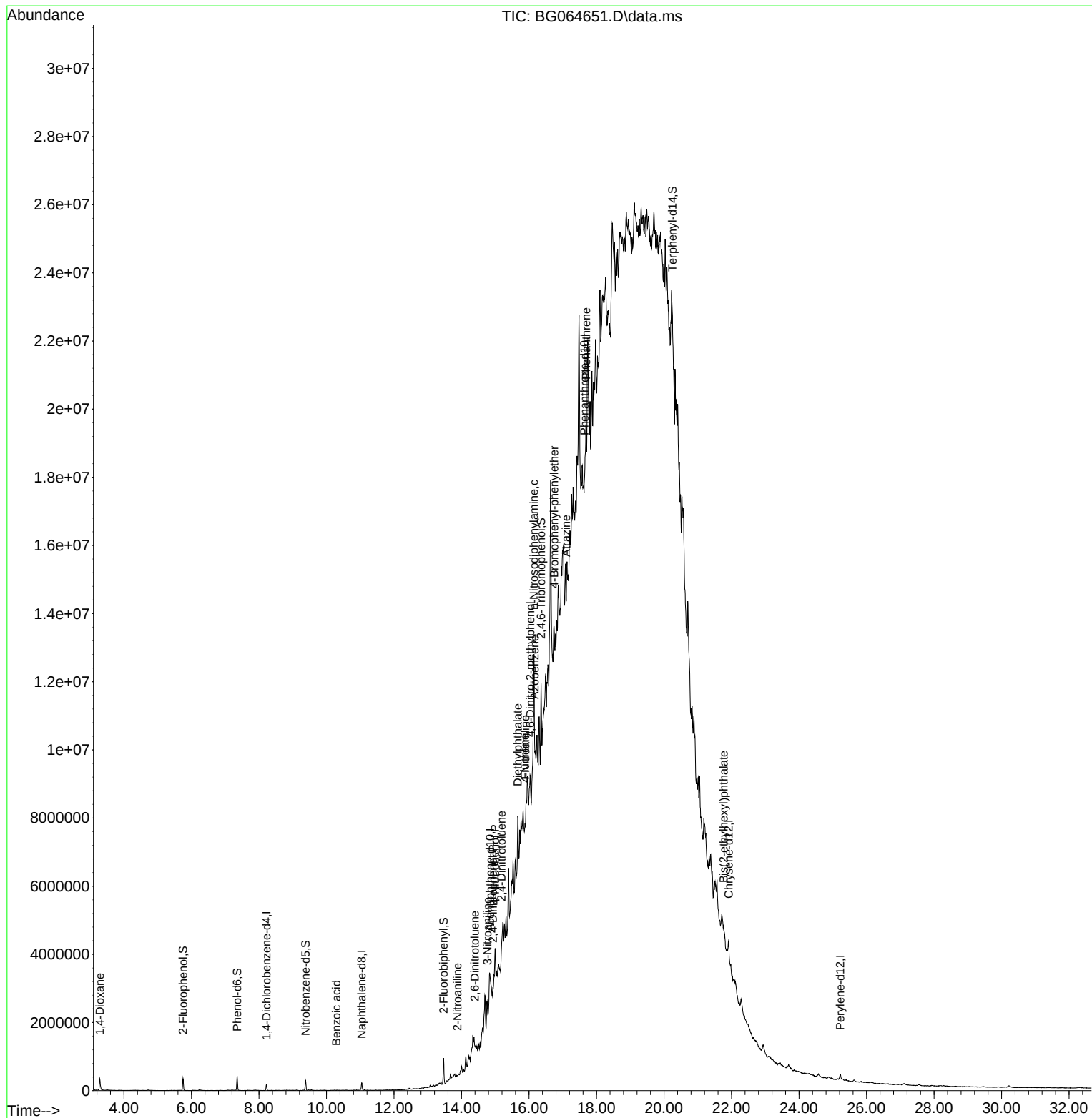
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.217  | 152  | 44529    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.043 | 136  | 172682   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.844 | 164  | 101475   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.641 | 188  | 191606   | 20.000 | ng    | # 0.06   |
| 76) Chrysene-d12              | 21.912 | 240  | 186617   | 20.000 | ng    | 0.05     |
| 86) Perylene-d12              | 25.220 | 264  | 177284   | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.749  | 112  | 139351   | 52.528 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.353  | 99   | 210737   | 57.889 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.380  | 82   | 153834   | 53.507 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.354 | 330  | 99544    | 67.967 | ng    | 0.03     |
| 45) 2-Fluorobiphenyl          | 13.469 | 172  | 370648   | 55.364 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.250 | 244  | 417266   | 42.196 | ng    | 0.07     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.287  | 88   | 3788     | 3.225  | ng    | # 1      |
| 32) Benzoic acid              | 10.291 | 122  | 128      | 6.984  | ng    | # 19     |
| 48) 2-Nitroaniline            | 13.875 | 65   | 371      | 3.414  | ng    | # 54     |
| 51) 2,6-Dinitrotoluene        | 14.392 | 165  | 19739    | 17.575 | ng    | # 29     |
| 53) 3-Nitroaniline            | 14.768 | 138  | 8718     | 6.533  | ng    | # 38     |
| 54) 2,4-Dinitrophenol         | 14.932 | 184  | 476      | 6.135  | ng    | # 1      |
| 56) 4-Nitrophenol             | 14.991 | 139  | 5571     | 4.503  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 15.185 | 165  | 19222    | 12.138 | ng    | # 46     |
| 58) Fluorene                  | 15.878 | 166  | 21052    | 2.841  | ng    | # 1      |
| 60) Diethylphthalate          | 15.661 | 149  | 89606    | 11.302 | ng    | # 61     |
| 62) 4-Nitroaniline            | 15.890 | 138  | 8586     | 5.783  | ng    | # 33     |
| 63) Azobenzene                | 16.166 | 77   | 23874    | 3.282  | ng    | # 45     |
| 65) 4,6-Dinitro-2-methylph... | 16.043 | 198  | 8109     | 13.957 | ng    | # 1      |
| 66) n-Nitrosodiphenylamine    | 16.149 | 169  | 47479    | 9.173  | ng    | # 80     |
| 67) 4-Bromophenyl-phenylether | 16.748 | 248  | 5797     | 2.553  | ng    | # 1      |
| 69) Atrazine                  | 17.100 | 200  | 11738    | 5.270  | ng    | # 1      |
| 71) Phenanthrene              | 17.688 | 178  | 32319    | 3.084  | ng    | # 1      |
| 84) Bis(2-ethylhexyl)phtha... | 21.766 | 149  | 17097    | 3.105  | ng    | # 23     |
| -----                         |        |      |          |        |       |          |

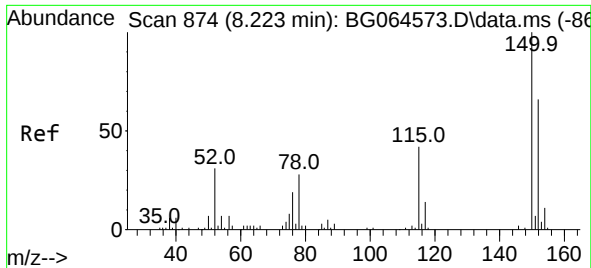
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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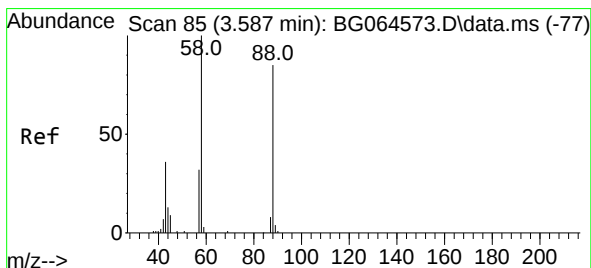
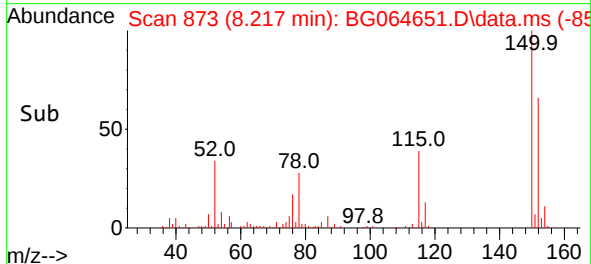
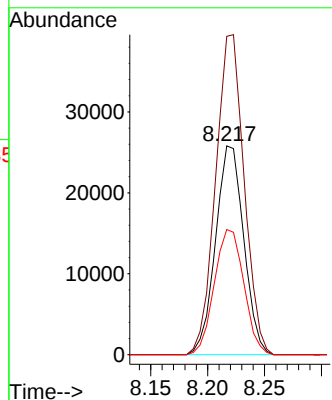
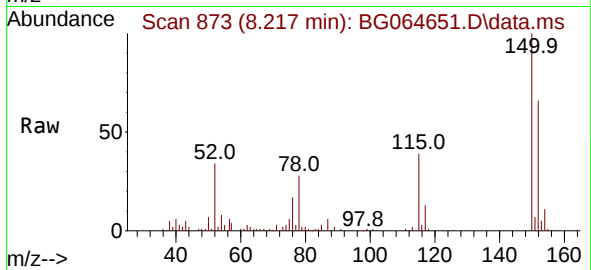




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.217 min Scan# 81  
Delta R.T. -0.004 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

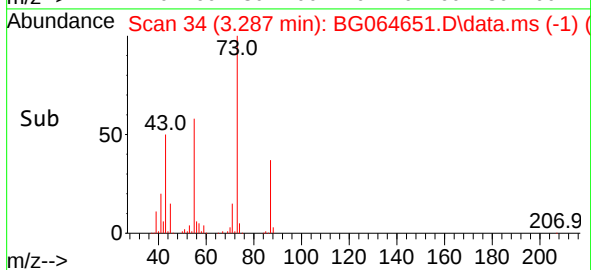
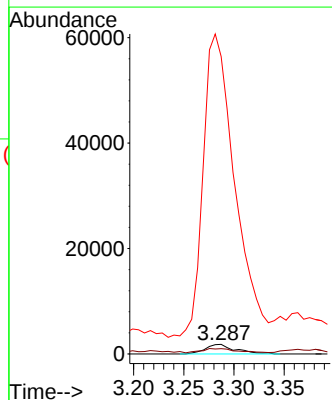
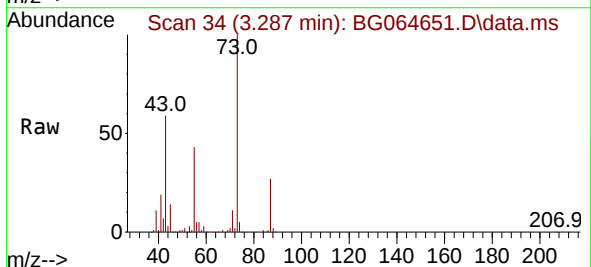
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

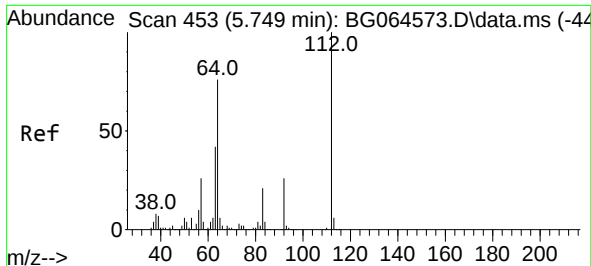
Tgt Ion:152 Resp: 44529  
Ion Ratio Lower Upper  
152 100  
150 152.5 122.2 183.4  
115 59.9 50.8 76.2



#2  
1,4-Dioxane  
Concen: 3.225 ng  
RT: 3.287 min Scan# 34  
Delta R.T. -0.303 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion: 88 Resp: 3788  
Ion Ratio Lower Upper  
88 100  
58 50.9 92.4 138.6#  
43 3280.3 33.0 49.6#

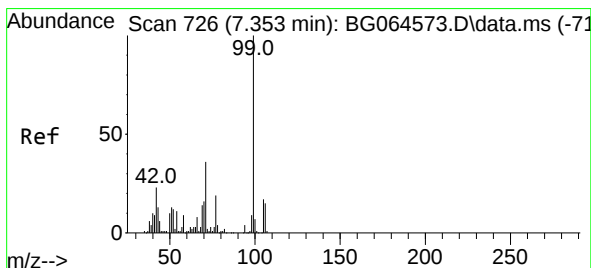
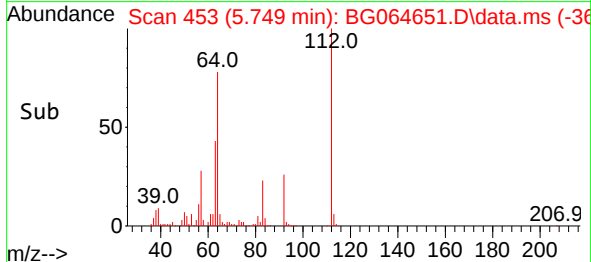
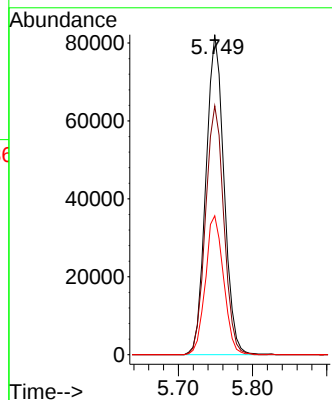
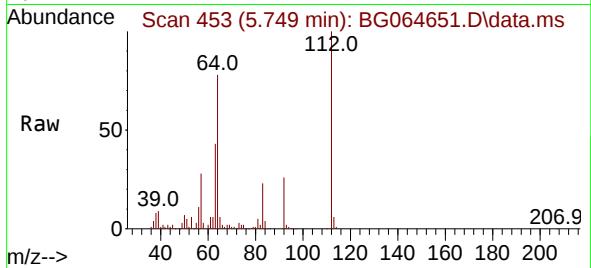




#5  
2-Fluorophenol  
Concen: 52.528 ng  
RT: 5.749 min Scan# 453  
Delta R.T. 0.002 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

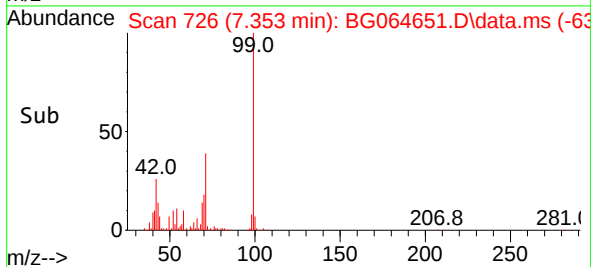
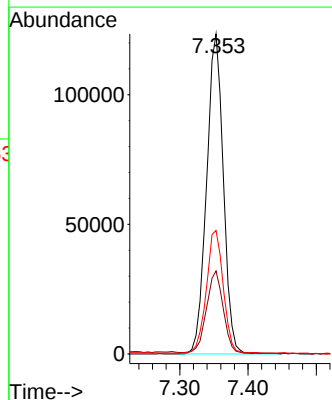
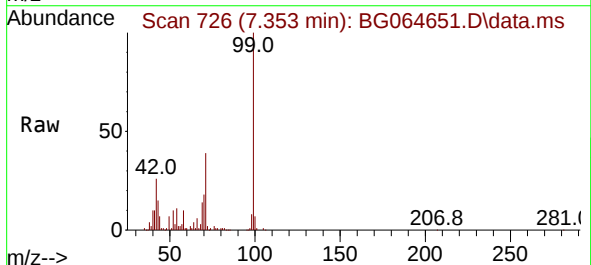
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

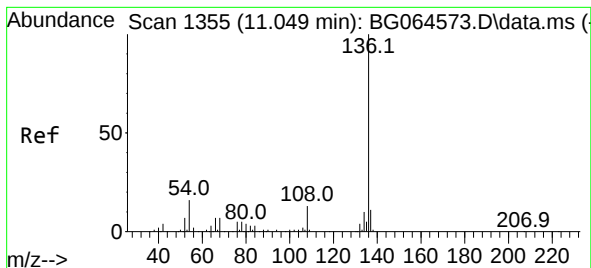
Tgt Ion:112 Resp: 139351  
Ion Ratio Lower Upper  
112 100  
64 77.7 60.7 91.1  
63 43.4 33.4 50.0



#7  
Phenol-d6  
Concen: 57.889 ng  
RT: 7.353 min Scan# 726  
Delta R.T. -0.004 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion: 99 Resp: 210737  
Ion Ratio Lower Upper  
99 100  
42 26.0 18.3 27.5  
71 38.6 28.6 43.0

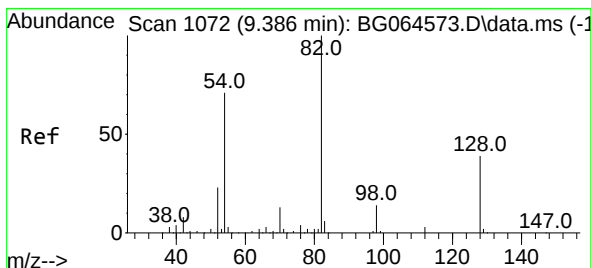
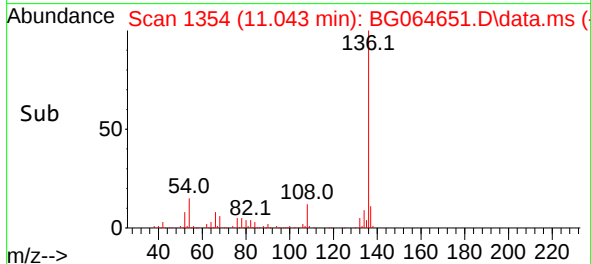
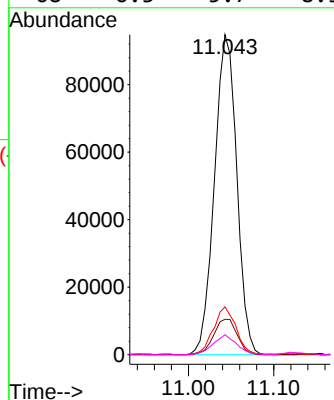
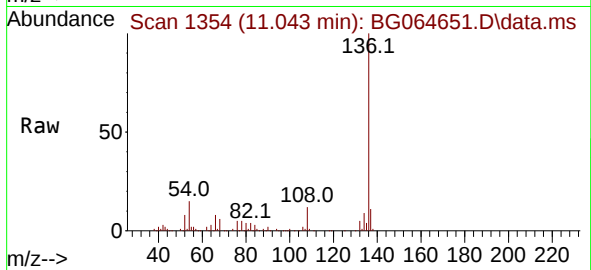




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.043 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

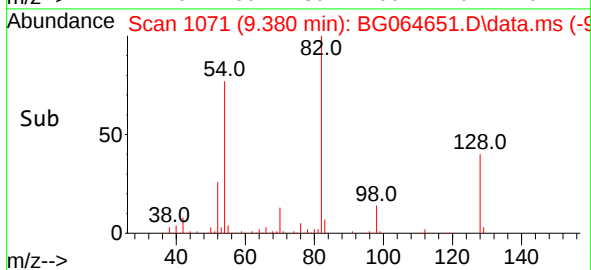
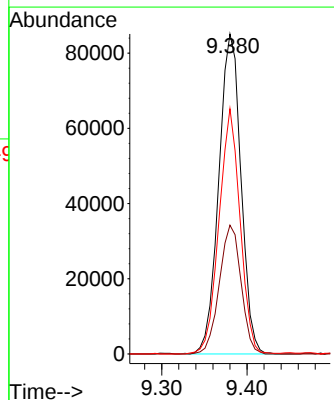
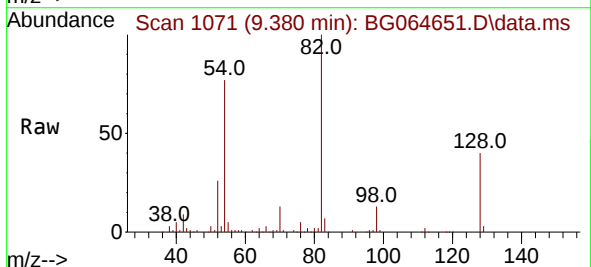
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

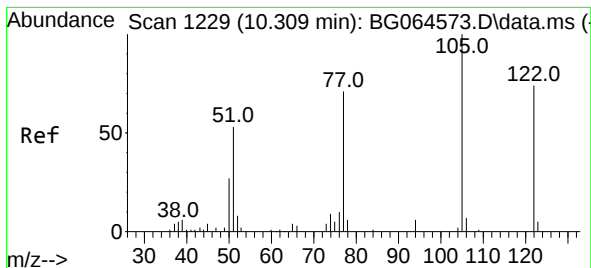
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 172682 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.2   | 13.8   |
| 54       | 14.9  | 12.6  | 19.0   |
| 68       | 6.3   | 5.7   | 8.5    |



#23  
Nitrobenzene-d5  
Concen: 53.507 ng  
RT: 9.380 min Scan# 1071  
Delta R.T. -0.010 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 153834 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.3  | 31.3  | 46.9   |
| 54       | 76.6  | 56.6  | 84.8   |





#32

Benzoic acid

Concen: 6.984 ng

RT: 10.291 min Scan# 11

Delta R.T. -0.051 min

Lab File: BG064651.D

Acq: 30 Oct 2025 21:54

Instrument :

BNA\_G

ClientSampleId :

MOO-25-0311-0313

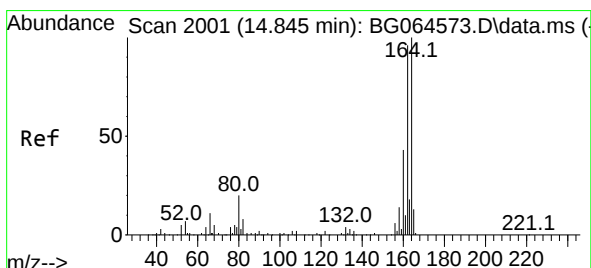
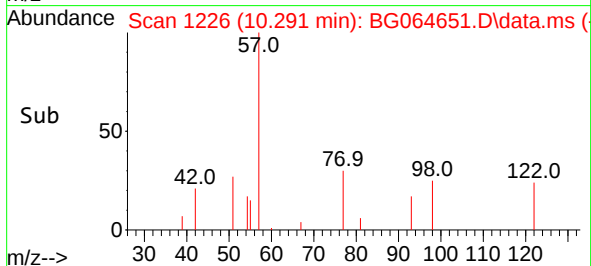
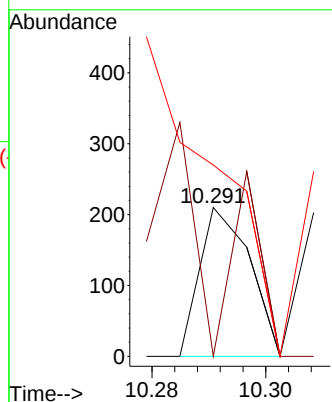
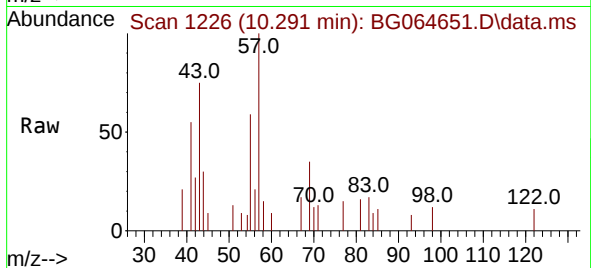
Tgt Ion:122 Resp: 128

Ion Ratio Lower Upper

122 100

105 0.0 104.2 144.2#

77 128.6 70.2 110.2#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.844 min Scan# 2001

Delta R.T. 0.002 min

Lab File: BG064651.D

Acq: 30 Oct 2025 21:54

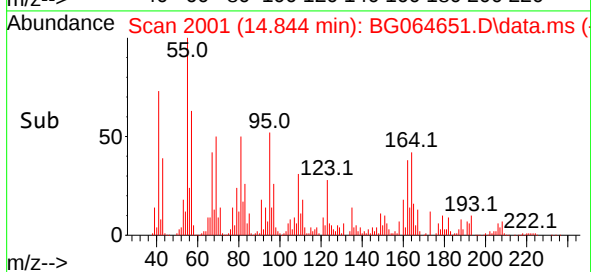
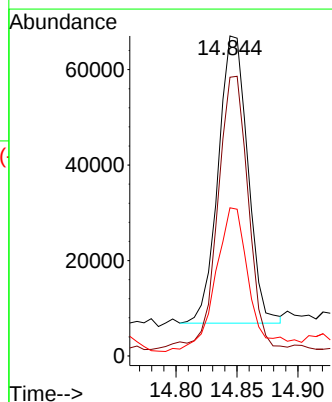
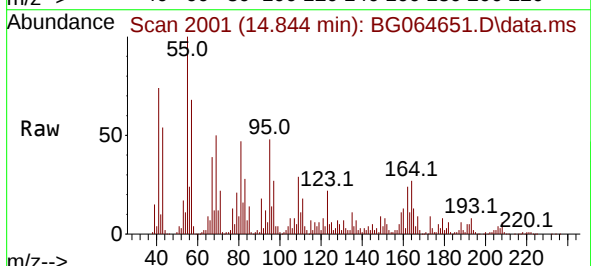
Tgt Ion:164 Resp: 101475

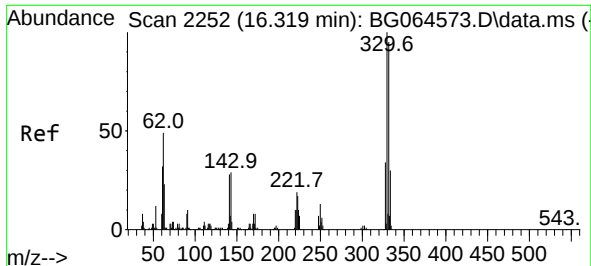
Ion Ratio Lower Upper

164 100

162 87.1 77.0 115.6

160 46.3 34.4 51.6

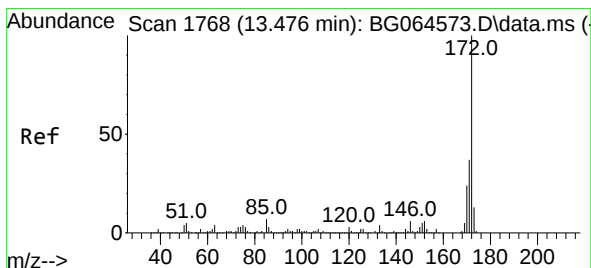
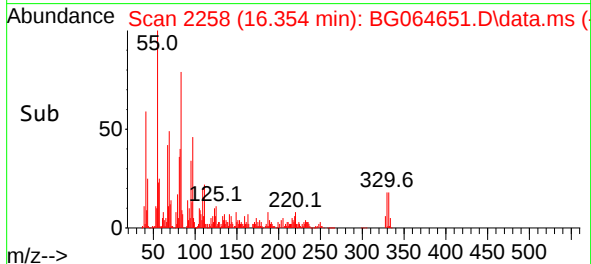
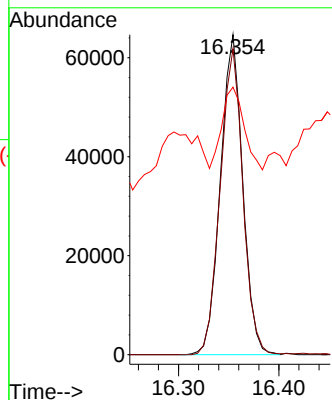
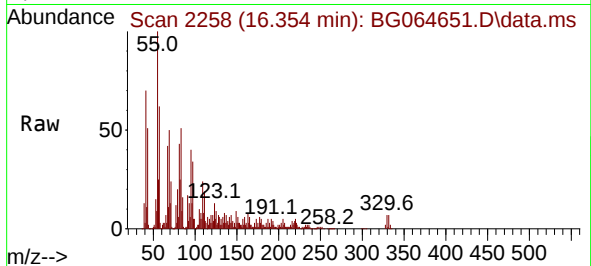




#42  
2,4,6-Tribromophenol  
Concen: 67.967 ng  
RT: 16.354 min Scan# 21  
Delta R.T. 0.031 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

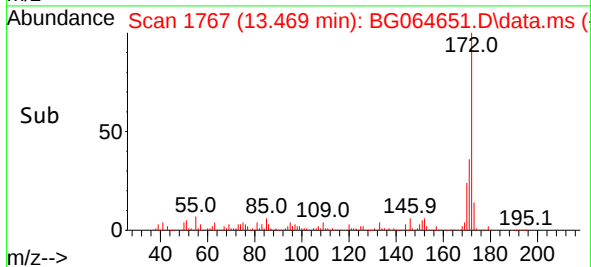
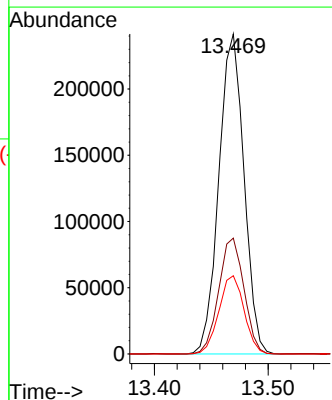
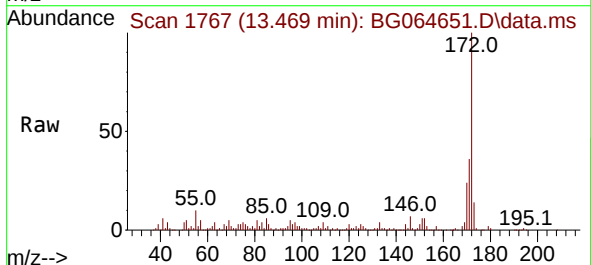
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ClientSampleId :  
MOO-25-0311-0313

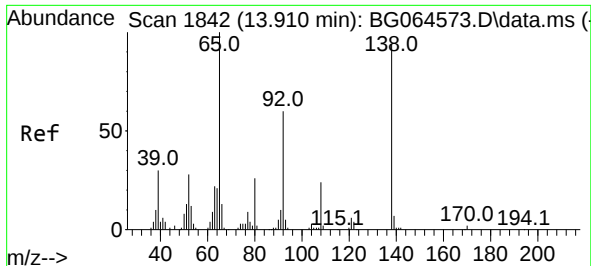
Tgt Ion:330 Resp: 99544  
Ion Ratio Lower Upper  
330 100  
332 97.3 78.0 117.0  
141 25.2 21.8 32.6



#45  
2-Fluorobiphenyl  
Concen: 55.364 ng  
RT: 13.469 min Scan# 1767  
Delta R.T. -0.010 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:172 Resp: 370648  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.4 44.0  
170 24.4 19.1 28.7

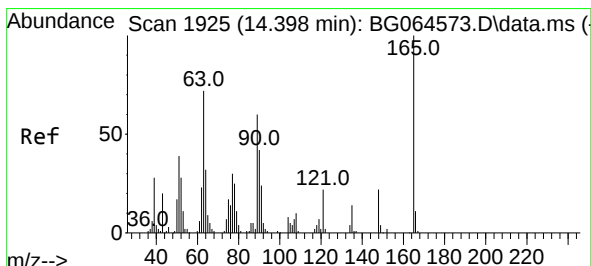
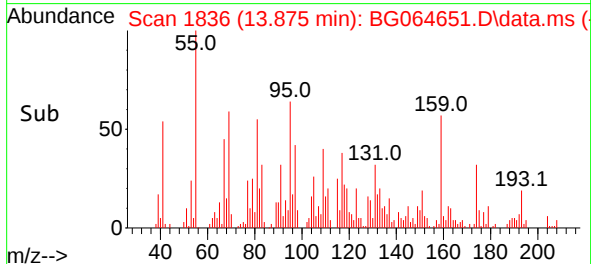
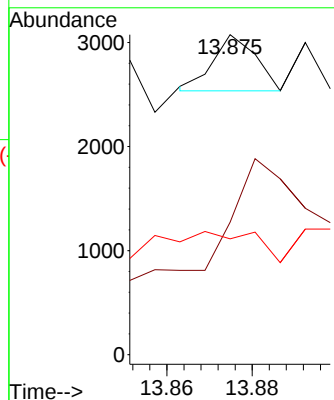
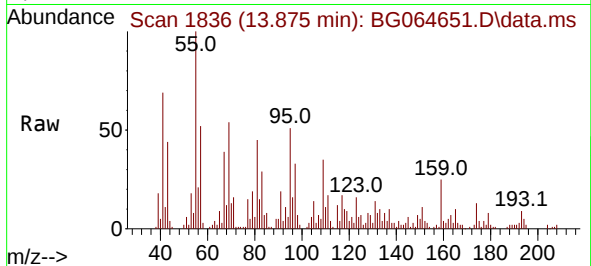




#48  
2-Nitroaniline  
Concen: 3.414 ng  
RT: 13.875 min Scan# 1836  
Delta R.T. -0.039 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

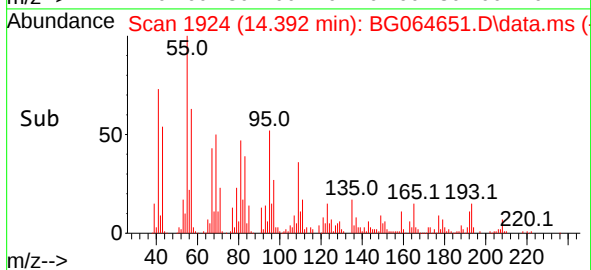
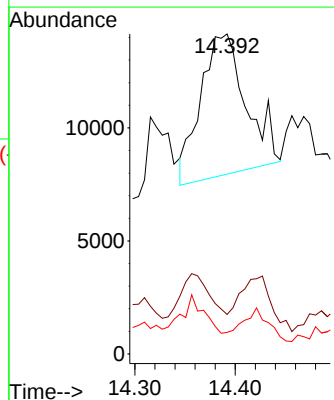
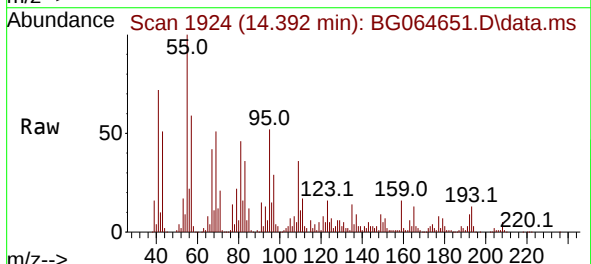
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

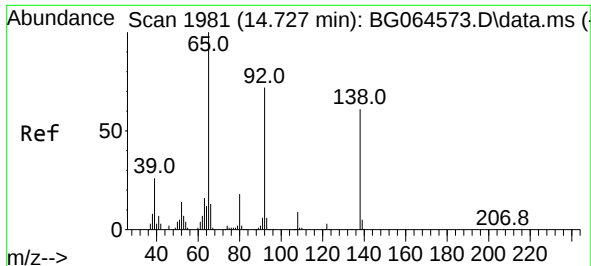
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Ion Ratio Lower Upper  
65 100  
92 41.4 48.3 72.5#  
138 36.2 74.9 112.3#



#51  
2,6-Dinitrotoluene  
Concen: 17.575 ng  
RT: 14.392 min Scan# 1924  
Delta R.T. -0.010 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:165 Resp: 19739  
Ion Ratio Lower Upper  
165 100  
63 12.4 57.4 86.0#  
89 6.7 47.8 71.8#

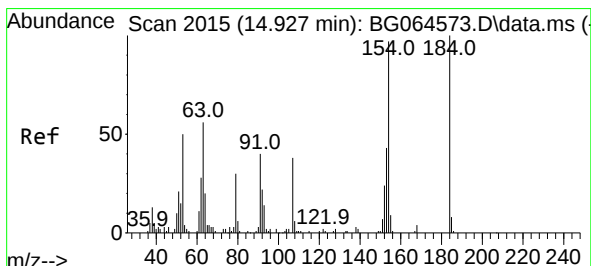
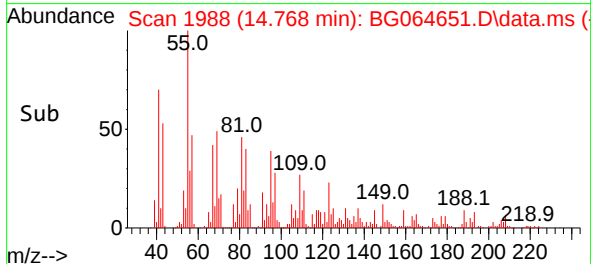
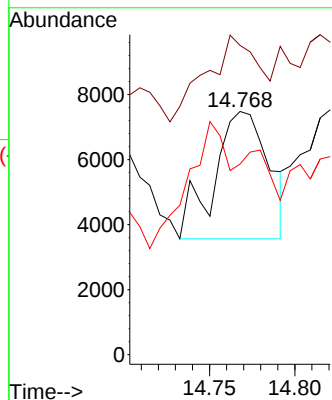
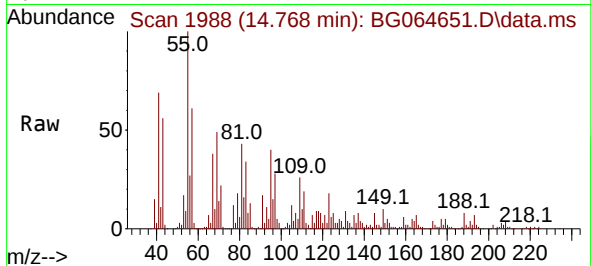




#53  
3-Nitroaniline  
Concen: 6.533 ng  
RT: 14.768 min Scan# 1981  
Delta R.T. 0.037 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

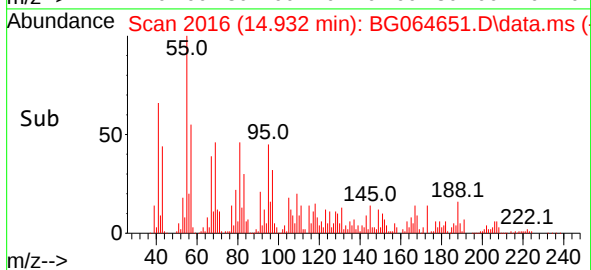
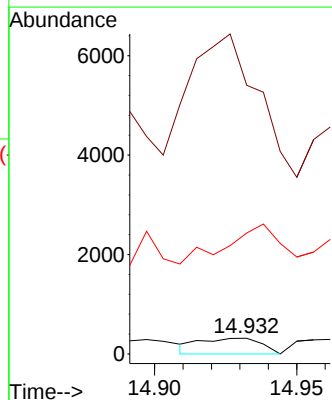
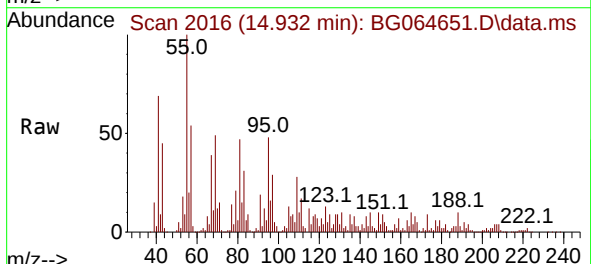
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

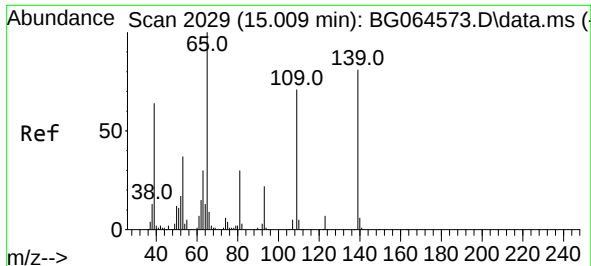
Tgt Ion:138 Resp: 8718  
Ion Ratio Lower Upper  
138 100  
108 127.1 11.4 17.0#  
92 78.3 95.3 142.9#



#54  
2,4-Dinitrophenol  
Concen: 6.135 ng  
RT: 14.932 min Scan# 2016  
Delta R.T. 0.002 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:184 Resp: 476  
Ion Ratio Lower Upper  
184 100  
63 1715.9 56.6 85.0#  
154 772.4 158.6 238.0#

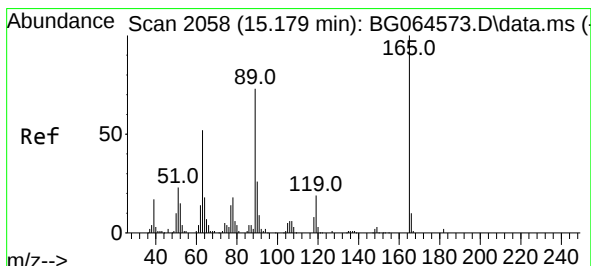
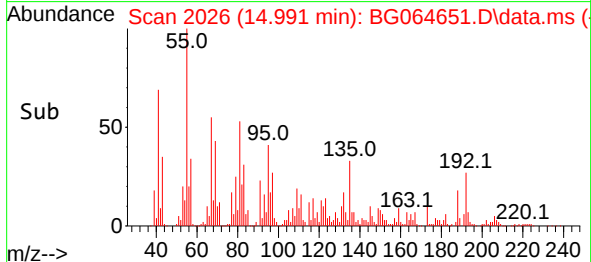
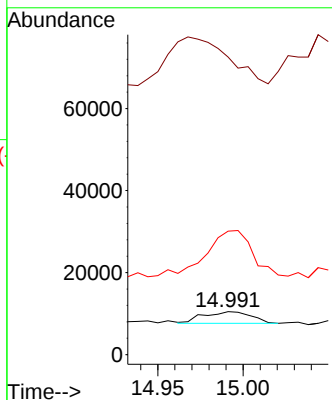
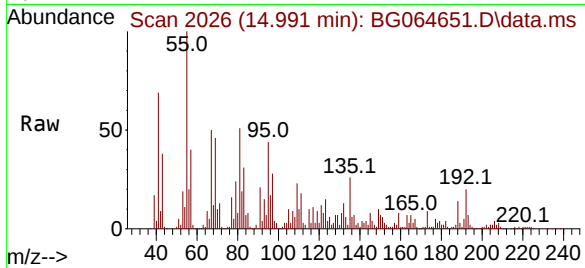




#56  
4-Nitrophenol  
Concen: 4.503 ng  
RT: 14.991 min Scan# 2026  
Delta R.T. -0.027 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

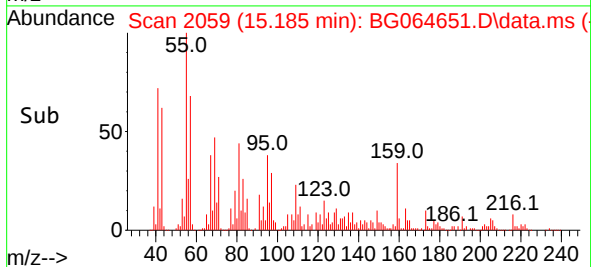
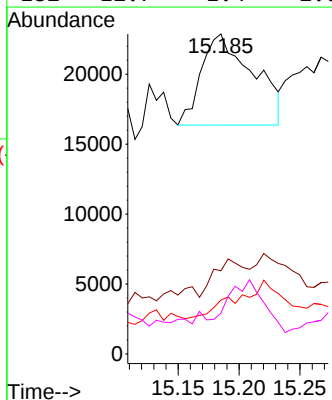
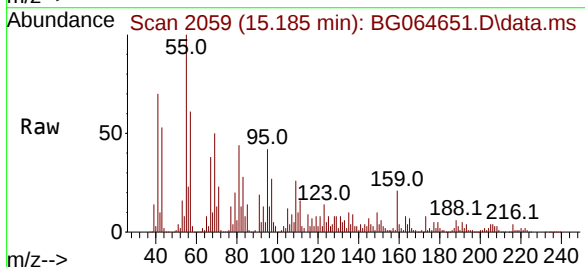
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

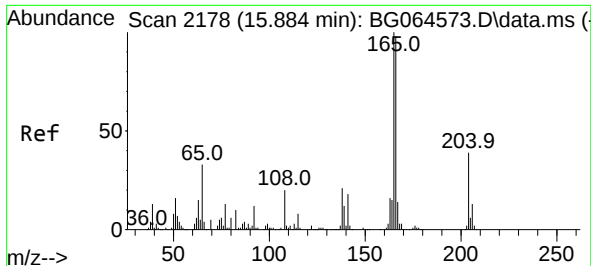
Tgt Ion:139 Resp: 5571  
Ion Ratio Lower Upper  
139 100  
109 692.5 67.8 107.8#  
65 287.4 103.7 143.7#



#57  
2,4-Dinitrotoluene  
Concen: 12.138 ng  
RT: 15.185 min Scan# 2059  
Delta R.T. -0.004 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:165 Resp: 19222  
Ion Ratio Lower Upper  
165 100  
63 26.0 41.8 62.8#  
89 16.8 58.1 87.1#  
182 12.7 1.4 2.0#

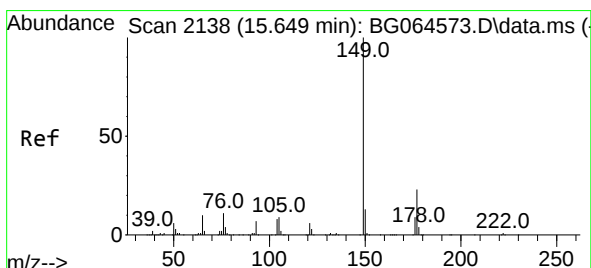
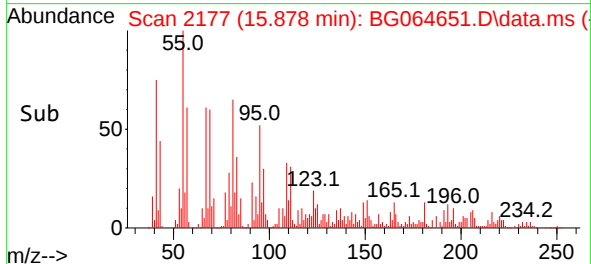
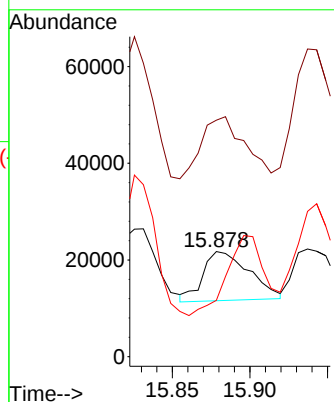
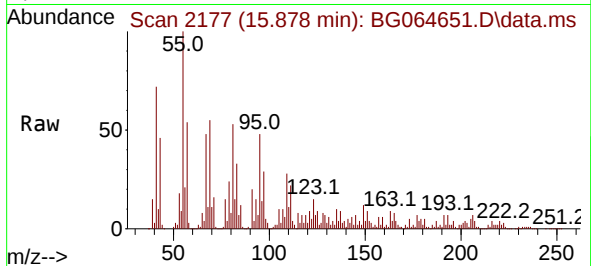




#58  
Fluorene  
Concen: 2.841 ng  
RT: 15.878 min Scan# 2178  
Delta R.T. -0.010 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

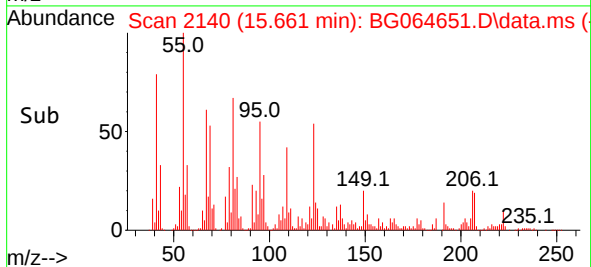
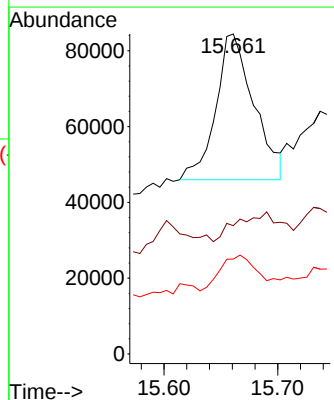
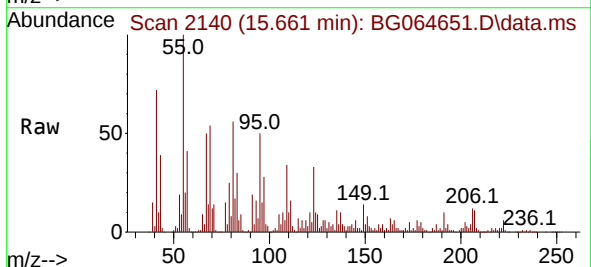
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

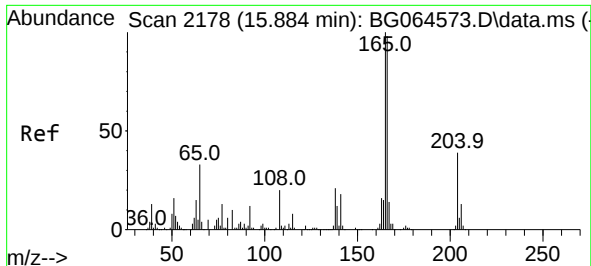
Tgt Ion:166 Resp: 21052  
Ion Ratio Lower Upper  
166 100  
165 224.7 81.5 122.3#  
167 53.6 11.4 17.0#



#60  
Diethylphthalate  
Concen: 11.302 ng  
RT: 15.661 min Scan# 2140  
Delta R.T. 0.008 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:149 Resp: 89606  
Ion Ratio Lower Upper  
149 100  
177 40.1 18.0 27.0#  
150 29.7 10.2 15.4#

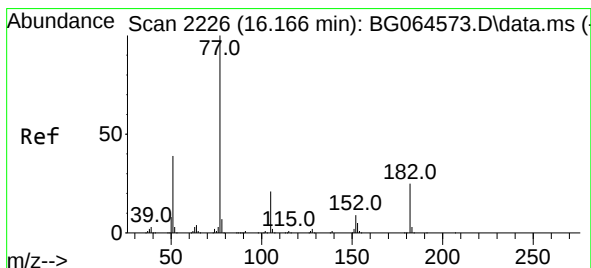
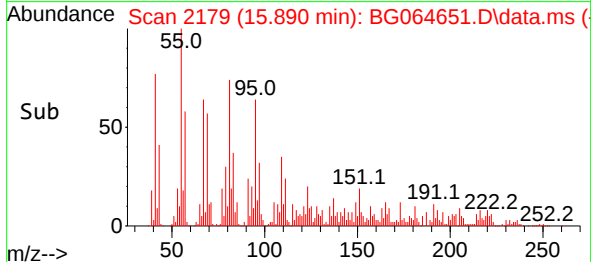
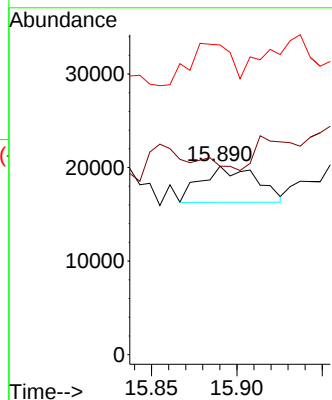
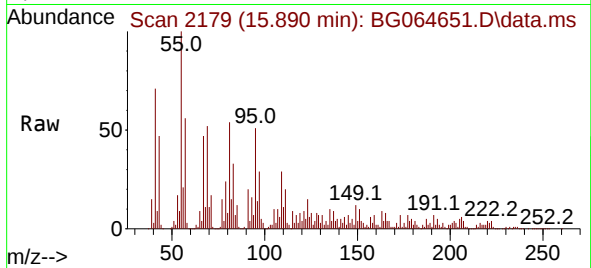




#62  
4-Nitroaniline  
Concen: 5.783 ng  
RT: 15.890 min Scan# 2179  
Delta R.T. -0.004 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

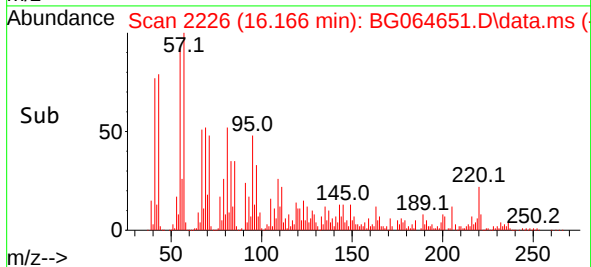
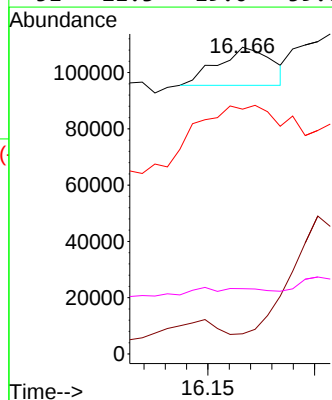
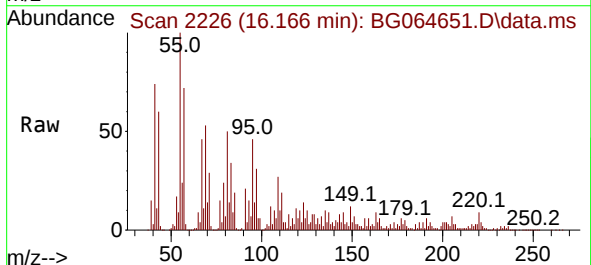
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

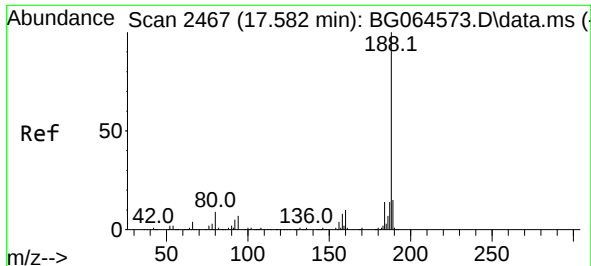
Tgt Ion:138 Resp: 8586  
Ion Ratio Lower Upper  
138 100  
92 100.0 36.1 76.1#  
108 164.3 75.6 115.6#



#63  
Azobenzene  
Concen: 3.282 ng  
RT: 16.166 min Scan# 2226  
Delta R.T. -0.004 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion: 77 Resp: 23874  
Ion Ratio Lower Upper  
77 100  
182 6.6 4.9 44.9  
105 79.8 1.3 41.3#  
51 21.3 19.0 59.0

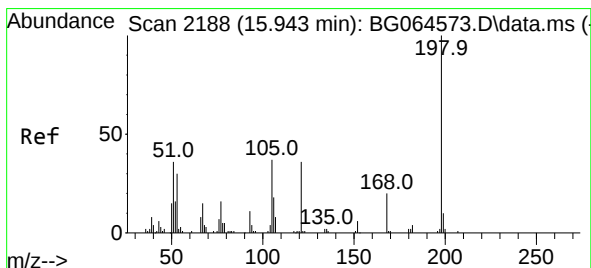
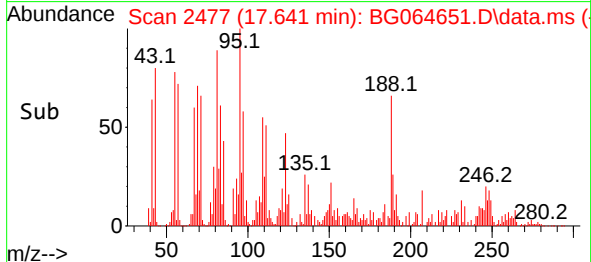
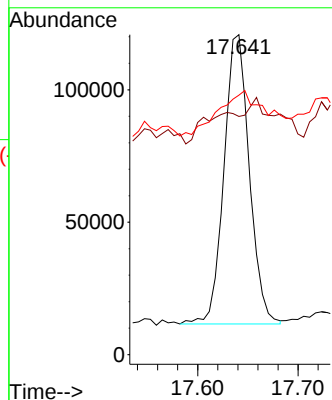
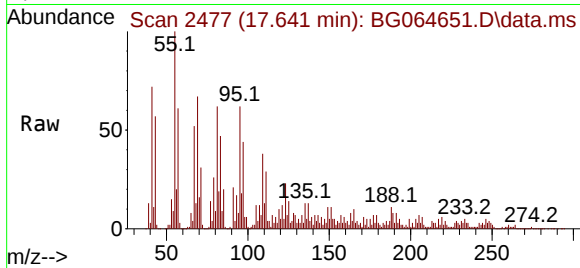




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.641 min Scan# 2467  
Delta R.T. 0.061 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

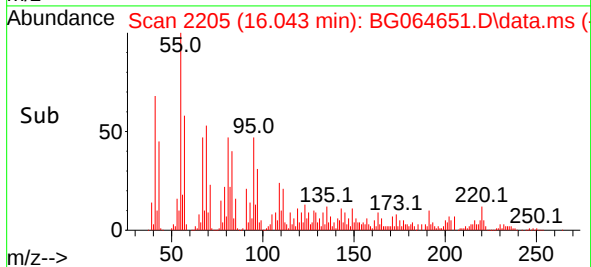
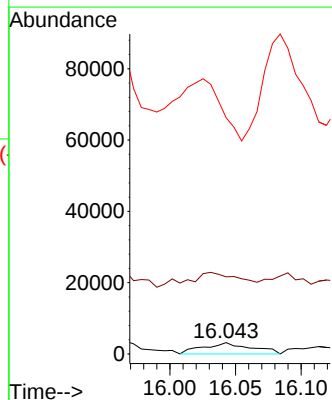
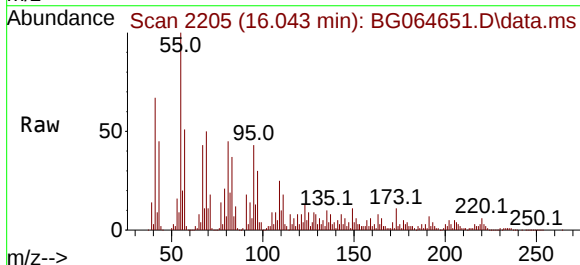
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-25-0311-0313

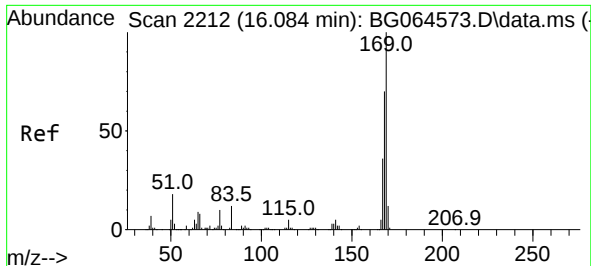
Tgt Ion:188 Resp: 191606  
Ion Ratio Lower Upper  
188 100  
94 74.4 5.7 8.5#  
80 81.1 6.8 10.2#



#65  
4,6-Dinitro-2-methylphenol  
Concen: 13.957 ng  
RT: 16.043 min Scan# 2205  
Delta R.T. 0.096 min  
Lab File: BG064651.D  
Acq: 30 Oct 2025 21:54

Tgt Ion:198 Resp: 8109  
Ion Ratio Lower Upper  
198 100  
51 682.5 24.7 64.7#  
105 2093.3 18.0 58.0#

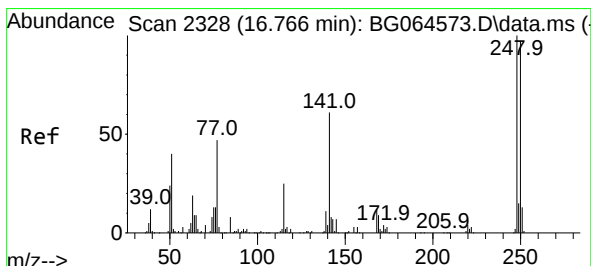
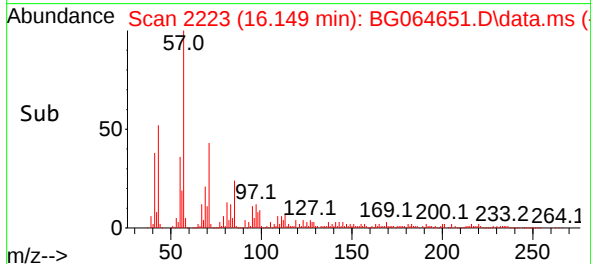
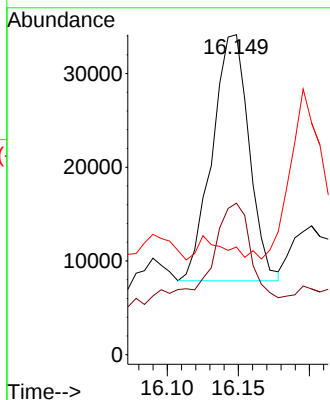
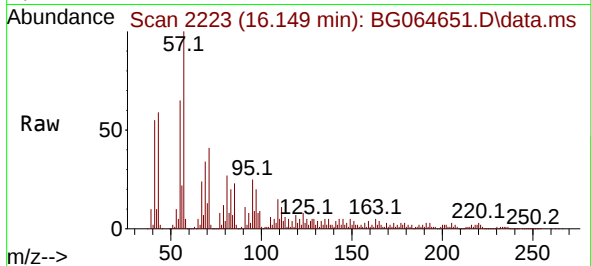




#66  
 n-Nitrosodiphenylamine  
 Concen: 9.173 ng  
 RT: 16.149 min Scan# 21  
 Delta R.T. 0.061 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

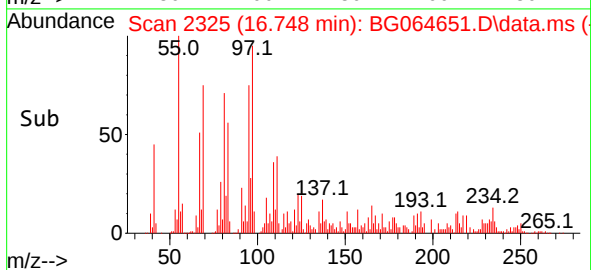
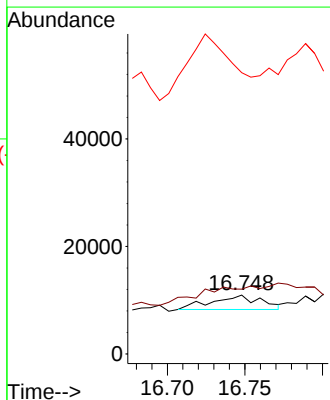
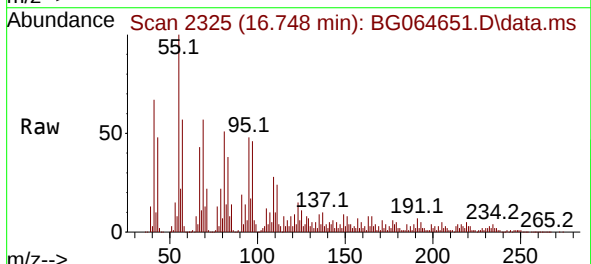
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-25-0311-0313

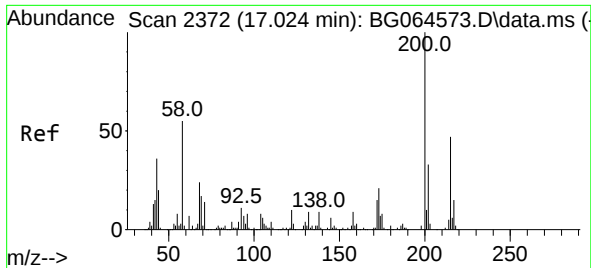
Tgt Ion:169 Resp: 47479  
 Ion Ratio Lower Upper  
 169 100  
 168 47.3 56.3 84.5#  
 167 33.6 29.0 43.6



#67  
 4-Bromophenyl-phenylether  
 Concen: 2.553 ng  
 RT: 16.748 min Scan# 2325  
 Delta R.T. -0.021 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

Tgt Ion:248 Resp: 5797  
 Ion Ratio Lower Upper  
 248 100  
 250 110.2 77.7 116.5  
 141 477.9 48.6 72.8#

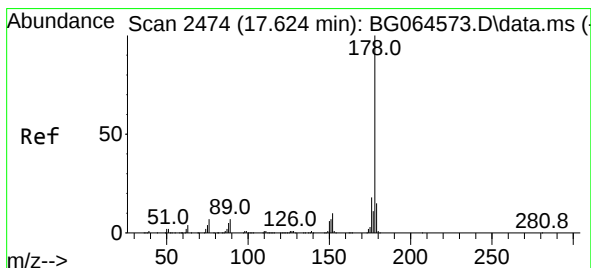
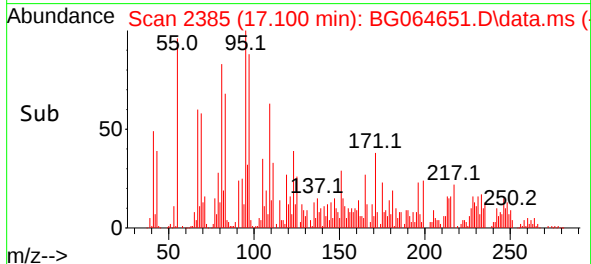
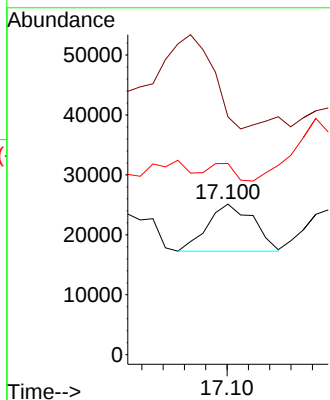
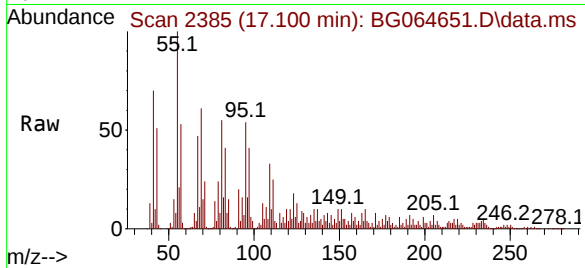




#69  
 Atrazine  
 Concen: 5.270 ng  
 RT: 17.100 min Scan# 21  
 Delta R.T. 0.073 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

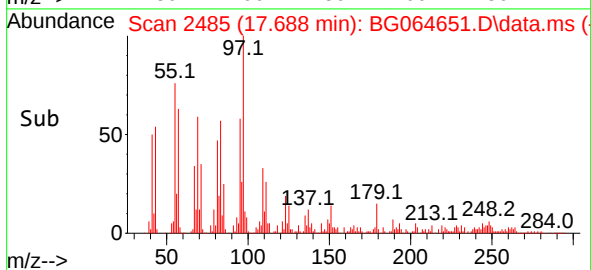
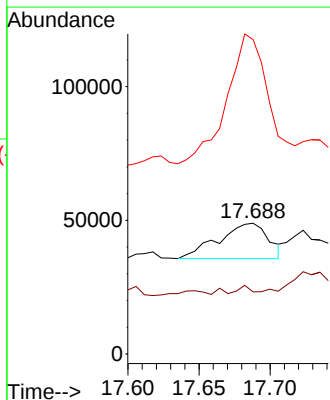
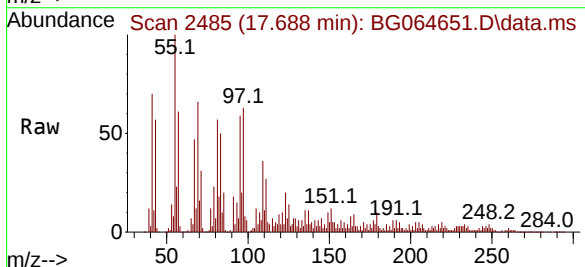
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-25-0311-0313

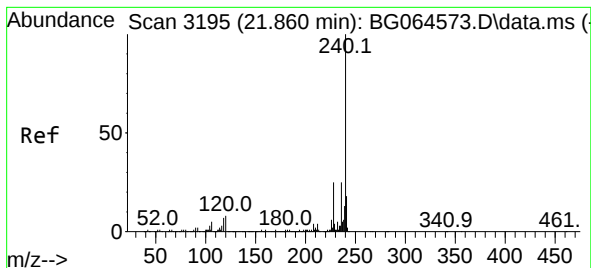
Tgt Ion:200 Resp: 11738  
 Ion Ratio Lower Upper  
 200 100  
 173 157.9 0.9 40.9#  
 215 127.0 27.0 67.0#



#71  
 Phenanthrene  
 Concen: 3.084 ng  
 RT: 17.688 min Scan# 2485  
 Delta R.T. 0.061 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

Tgt Ion:178 Resp: 32319  
 Ion Ratio Lower Upper  
 178 100  
 176 47.4 14.7 22.1#  
 179 240.4 12.2 18.4#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.912 min Scan# 31

Delta R.T. 0.049 min

Lab File: BG064651.D

Acq: 30 Oct 2025 21:54

Instrument :

BNA\_G

ClientSampleId :

MOO-25-0311-0313

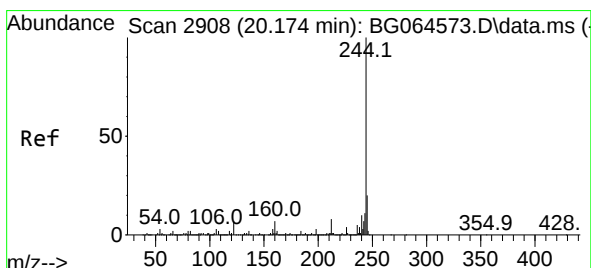
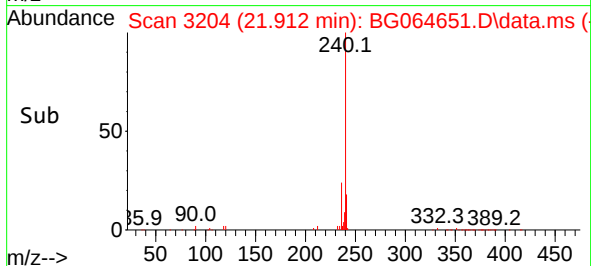
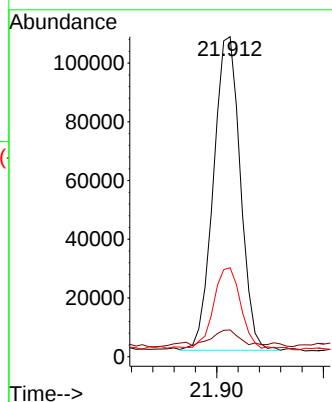
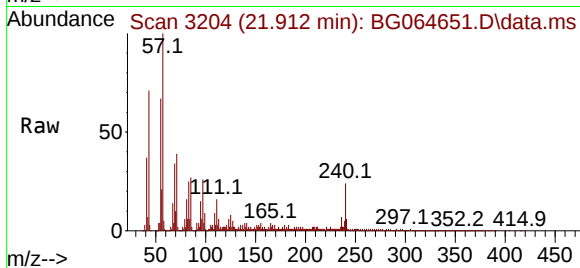
Tgt Ion:240 Resp: 186617

Ion Ratio Lower Upper

240 100

120 8.3 6.5 9.7

236 27.8 20.2 30.2



#79

Terphenyl-d14

Concen: 42.196 ng

RT: 20.250 min Scan# 2921

Delta R.T. 0.073 min

Lab File: BG064651.D

Acq: 30 Oct 2025 21:54

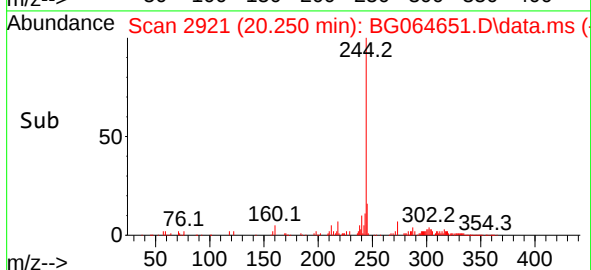
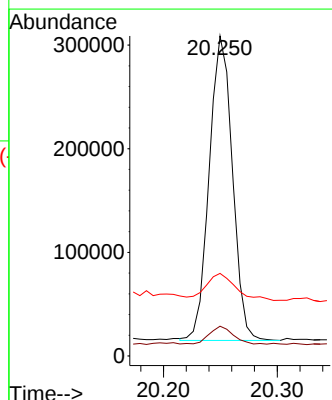
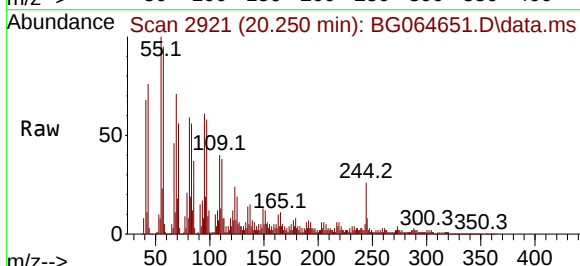
Tgt Ion:244 Resp: 417266

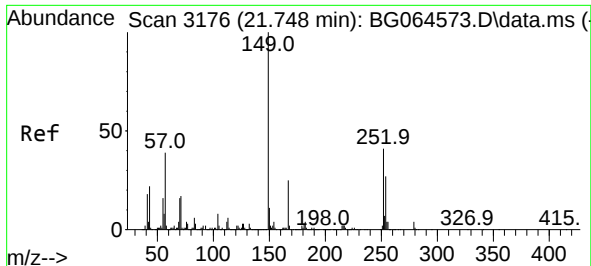
Ion Ratio Lower Upper

244 100

212 9.3 6.1 9.1#

122 25.8 5.6 8.4#

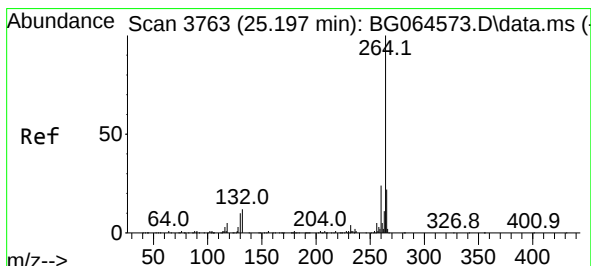
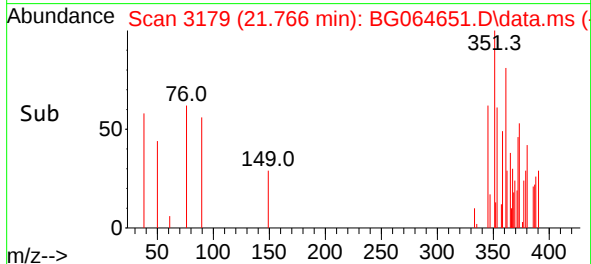
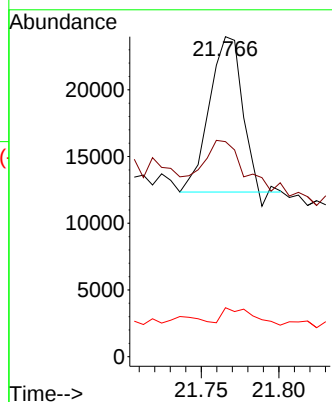
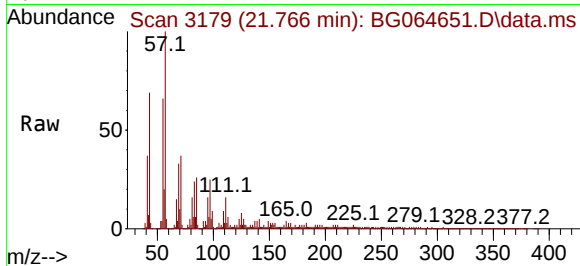




#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.105 ng  
 RT: 21.766 min Scan# 3179  
 Delta R.T. 0.014 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-25-0311-0313

Tgt Ion:149 Resp: 17097  
 Ion Ratio Lower Upper  
 149 100  
 167 67.2 20.0 30.0#  
 279 15.3 3.1 4.7#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.220 min Scan# 3767  
 Delta R.T. 0.020 min  
 Lab File: BG064651.D  
 Acq: 30 Oct 2025 21:54

Tgt Ion:264 Resp: 177284  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.0 28.4  
 265 21.4 17.6 26.4

