

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041825\  
 Data File : BM049972.D  
 Acq On : 18 Apr 2025 19:04  
 Operator : RC/JU  
 Sample : Q1832-13 2X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PL-714-COMP-03

Quant Time: Apr 18 23:10:53 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

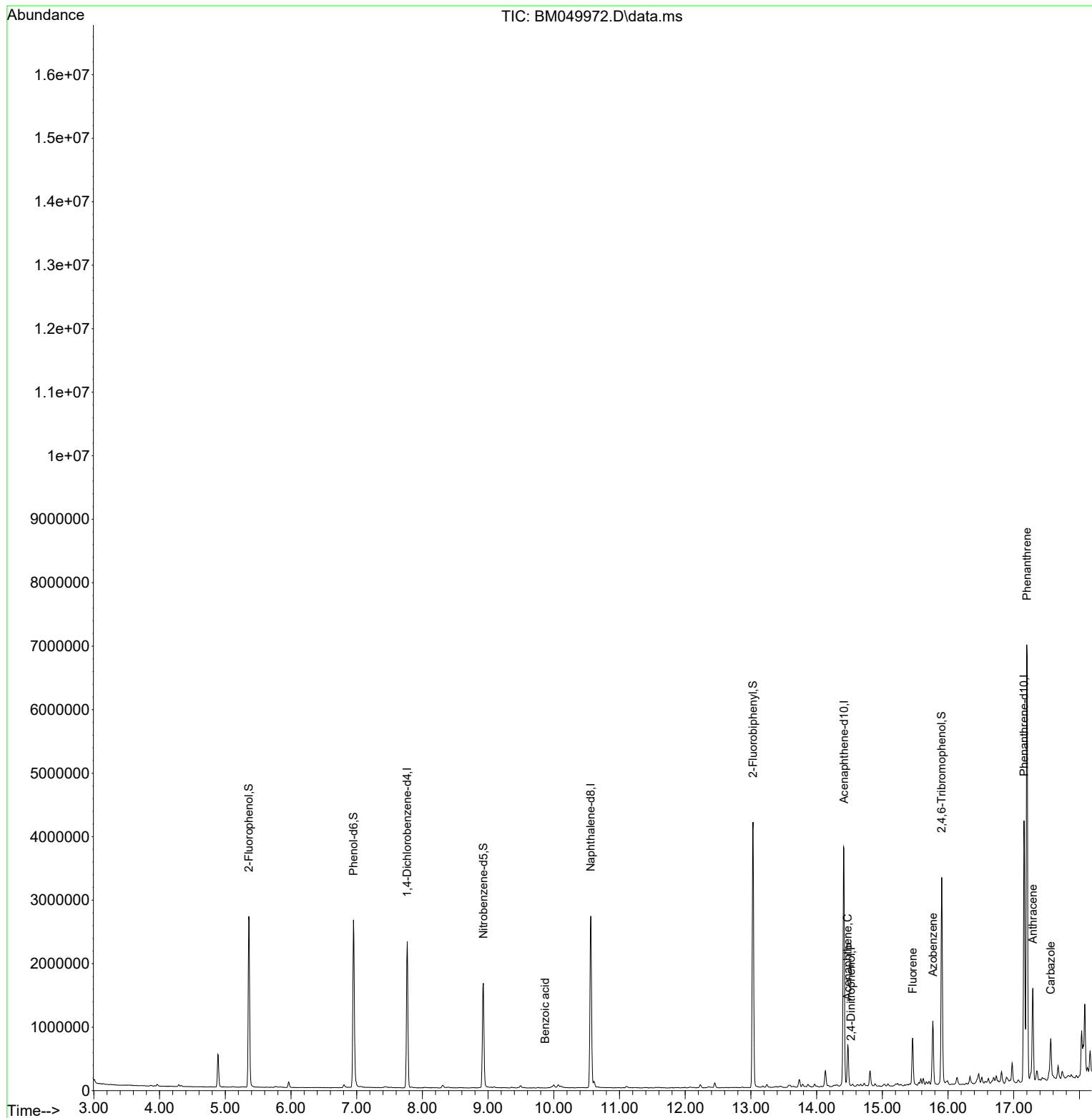
| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.769  | 152  | 672637   | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.563 | 136  | 2307081  | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.415 | 164  | 1408514  | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.156 | 188  | 2446928  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.397 | 240  | 2109574  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.403 | 264  | 2083176  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.357  | 112  | 1271691  | 32.104 | ng    | 0.00     |
| 7) Phenol-d6                | 6.951  | 99   | 1646701  | 33.412 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.928  | 82   | 988928   | 23.869 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.904 | 330  | 644150   | 31.441 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.033 | 172  | 2415654  | 23.256 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.780 | 244  | 2404987  | 21.365 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 32) Benzoic acid            | 9.869  | 122  | 1063     | 8.568  | ng    | # 53     |
| 52) Acenaphthene            | 14.474 | 154  | 235389   | 3.087  | ng    | 99       |
| 54) 2,4-Dinitrophenol       | 14.521 | 184  | 60       | 7.228  | ng    | # 1      |
| 58) Fluorene                | 15.462 | 166  | 349482   | 3.449  | ng    | 99       |
| 63) Azobenzene              | 15.768 | 77   | 252658   | 3.097  | ng    | # 1      |
| 71) Phenanthrene            | 17.198 | 178  | 4396875  | 32.776 | ng    | 100      |
| 72) Anthracene              | 17.292 | 178  | 974944   | 7.375  | ng    | 100      |
| 73) Carbazole               | 17.562 | 167  | 447282   | 3.592  | ng    | 99       |
| 75) Fluoranthene            | 19.221 | 202  | 7940281  | 48.139 | ng    | 98       |
| 78) Pyrene                  | 19.580 | 202  | 6375855  | 43.854 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.380 | 228  | 3207251  | 22.876 | ng    | 98       |
| 83) Chrysene                | 21.444 | 228  | 2787972  | 20.917 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.797 | 276  | 1638078  | 10.549 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 23.462 | 252  | 3622307  | 27.226 | ng    | 99       |
| 89) Benzo(k)fluoranthene    | 23.462 | 252  | 3622307  | 28.095 | ng    | 98       |
| 90) Benzo(a)pyrene          | 24.268 | 252  | 2665117  | 22.796 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 27.832 | 278  | 429607   | 3.359  | ng    | # 87     |
| 92) Benzo(g,h,i)perylene    | 28.856 | 276  | 1525958  | 11.675 | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

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Sample : Q1832-13 2X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-03

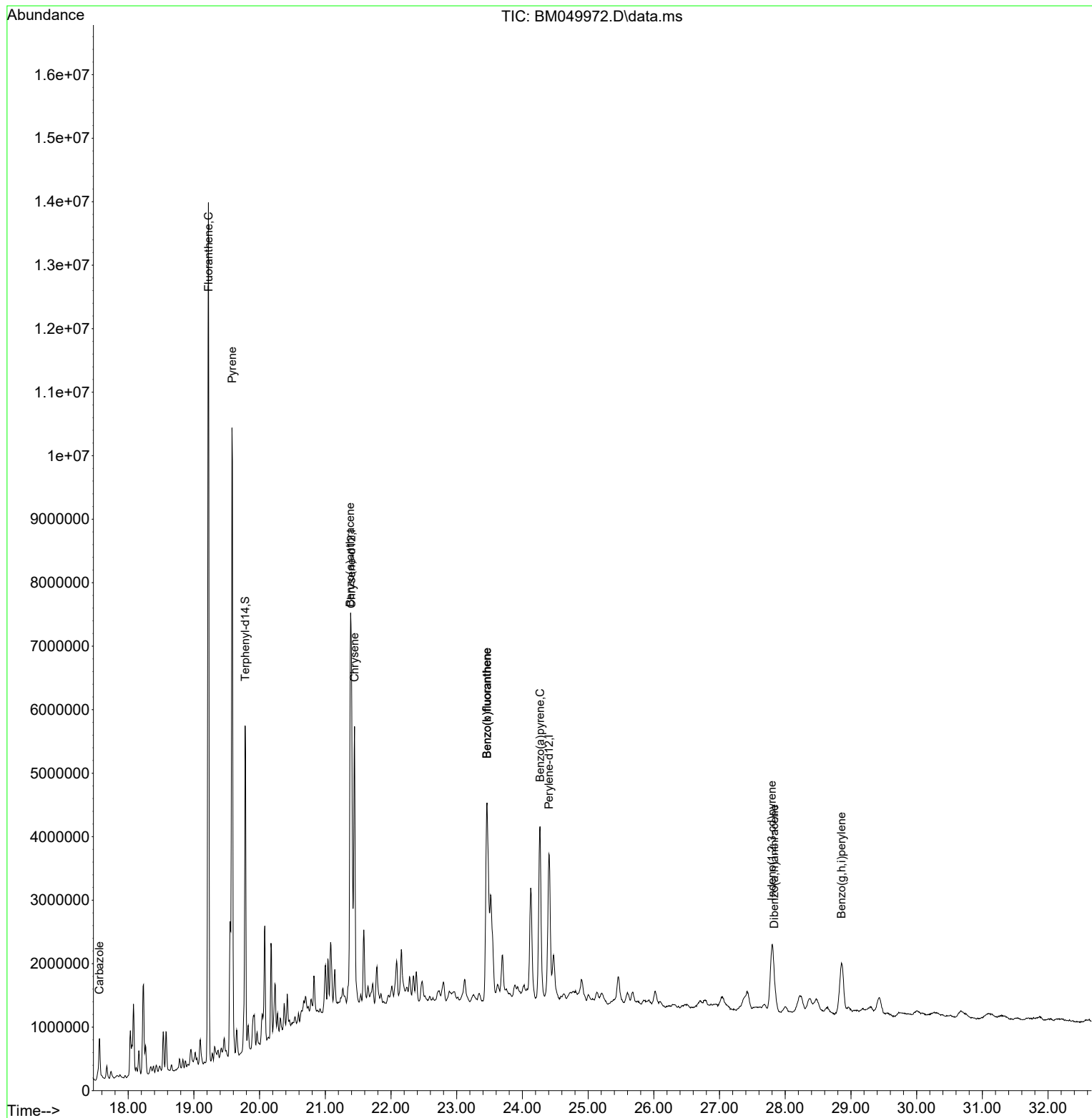
Quant Time: Apr 18 23:10:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 09 04:00:55 2025  
Response via : Initial Calibration

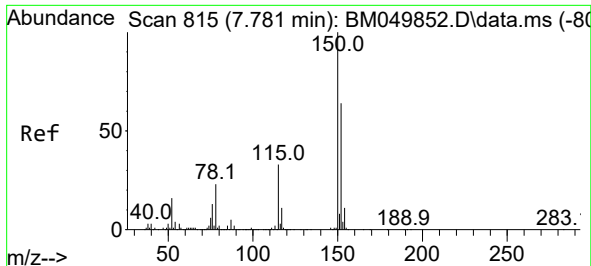


Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041825\  
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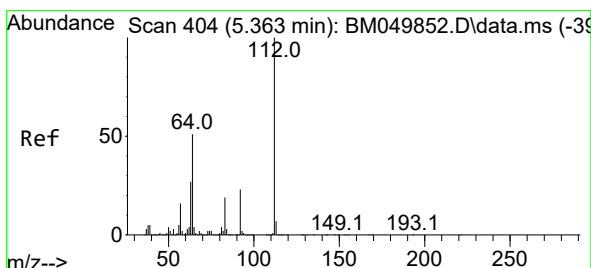
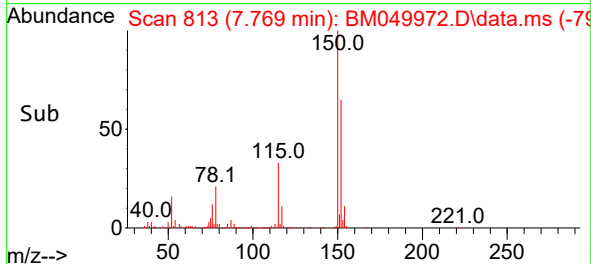
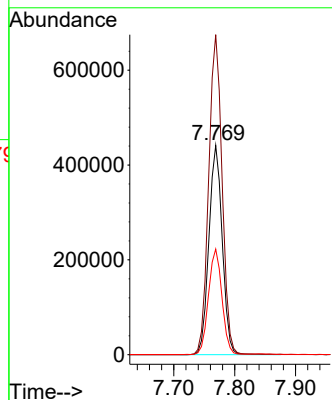
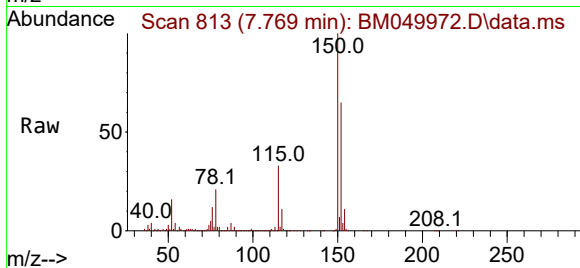




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.769 min Scan# 815  
Delta R.T. -0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

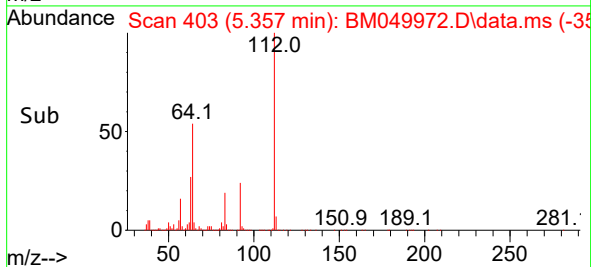
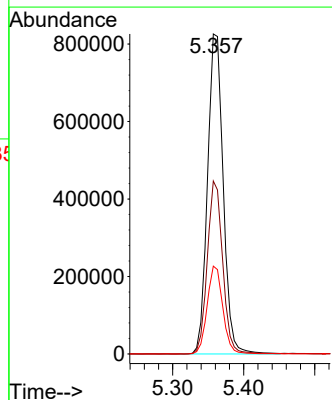
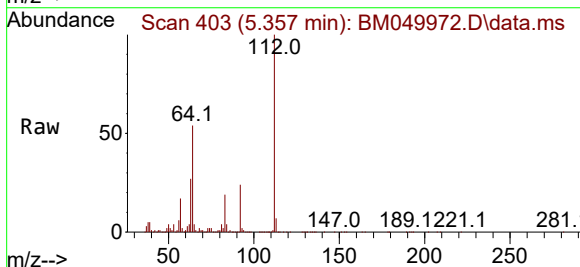
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ClientSampleId :  
PL-714-COMP-03

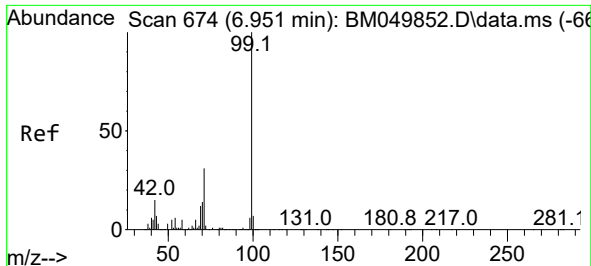
Tgt Ion:152 Resp: 672637  
Ion Ratio Lower Upper  
152 100  
150 152.9 124.3 186.5  
115 50.4 41.1 61.7



#5  
2-Fluorophenol  
Concen: 32.104 ng  
RT: 5.357 min Scan# 403  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion:112 Resp: 1271691  
Ion Ratio Lower Upper  
112 100  
64 54.0 41.0 61.6  
63 27.5 21.5 32.3

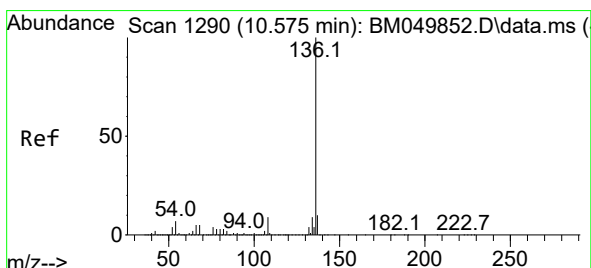
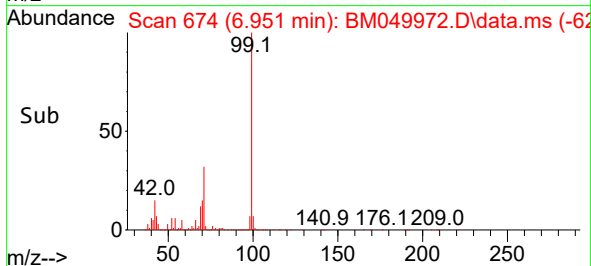
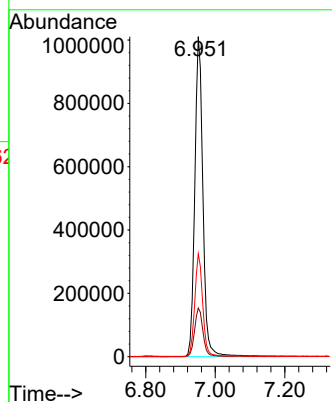
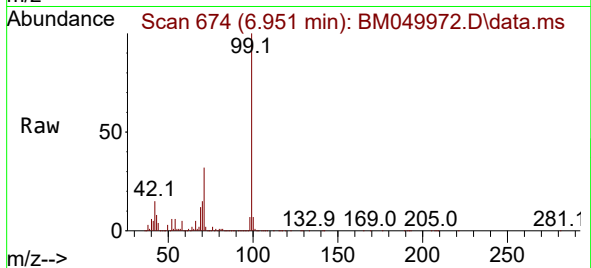




#7  
Phenol-d6  
Concen: 33.412 ng  
RT: 6.951 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

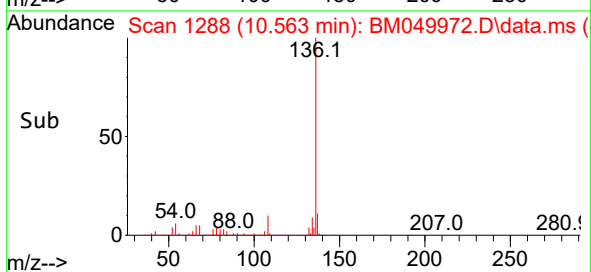
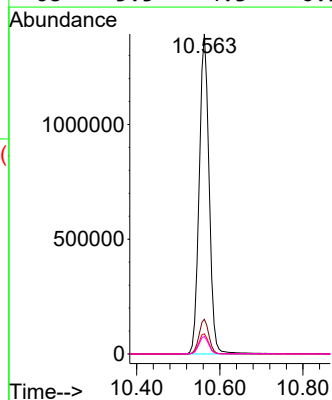
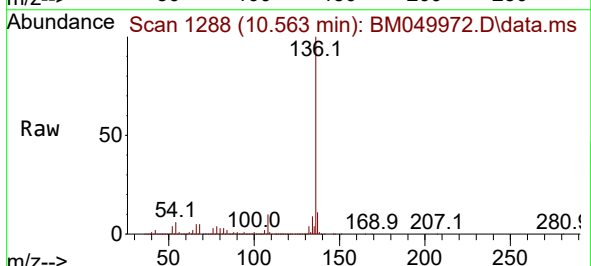
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ClientSampleId :  
PL-714-COMP-03

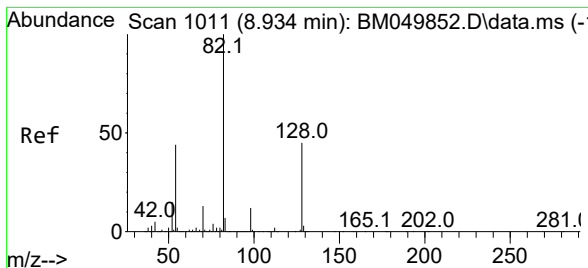
Tgt Ion: 99 Resp: 1646701  
Ion Ratio Lower Upper  
99 100  
42 15.2 12.1 18.1  
71 32.2 24.9 37.3



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.563 min Scan# 1288  
Delta R.T. -0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion: 136 Resp: 2307081  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.4 12.6  
54 6.3 5.3 7.9  
68 5.5 4.3 6.5

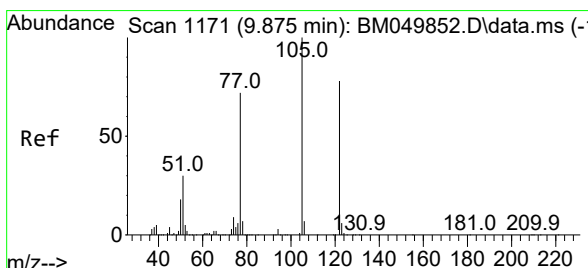
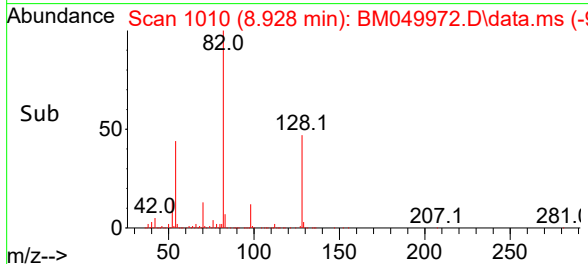
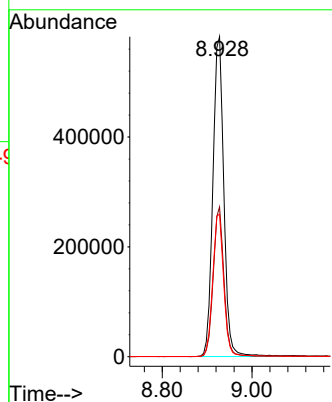
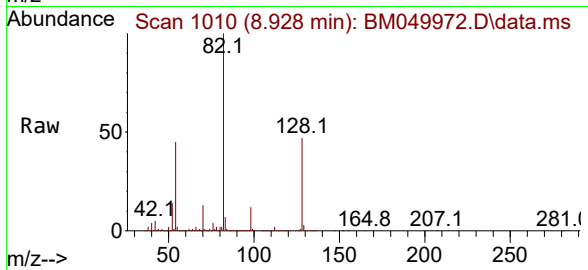




#23  
Nitrobenzene-d5  
Concen: 23.869 ng  
RT: 8.928 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

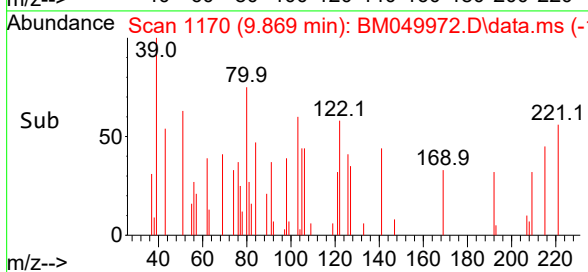
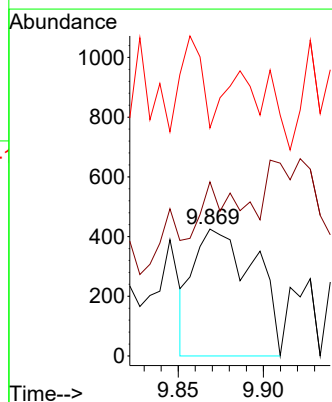
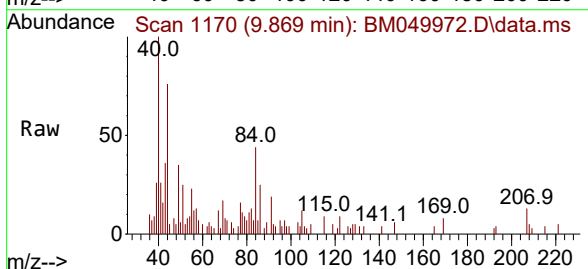
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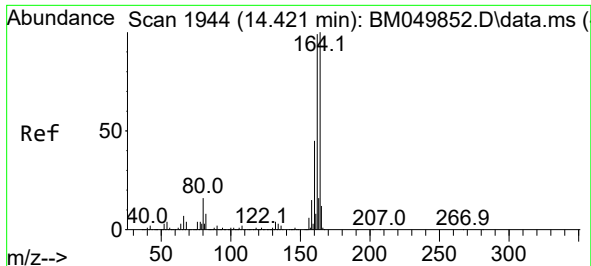
Tgt Ion: 82 Resp: 988928  
Ion Ratio Lower Upper  
82 100  
128 46.8 36.2 54.2  
54 44.5 35.0 52.6



#32  
Benzoic acid  
Concen: 8.568 ng  
RT: 9.869 min Scan# 1170  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion: 122 Resp: 1063  
Ion Ratio Lower Upper  
122 100  
105 137.2 103.8 143.8  
77 179.8 70.7 110.7#

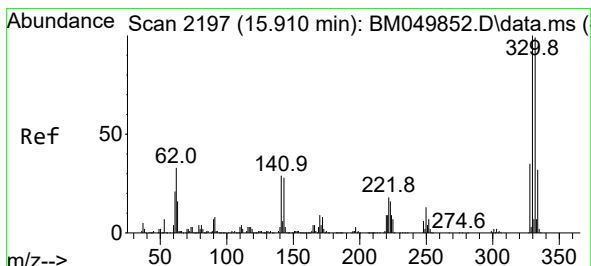
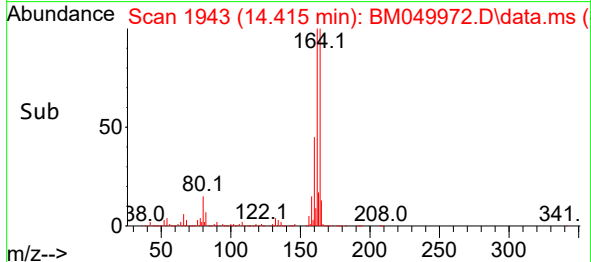
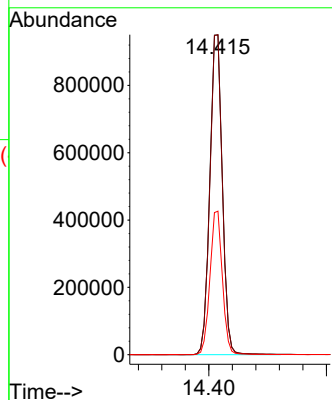
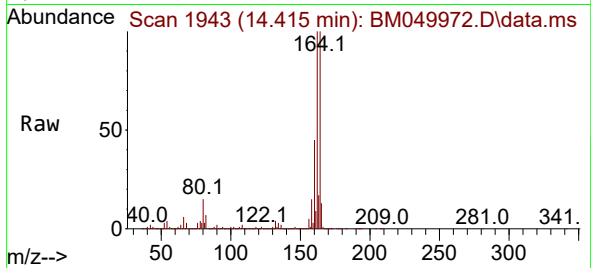




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.415 min Scan# 1943  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

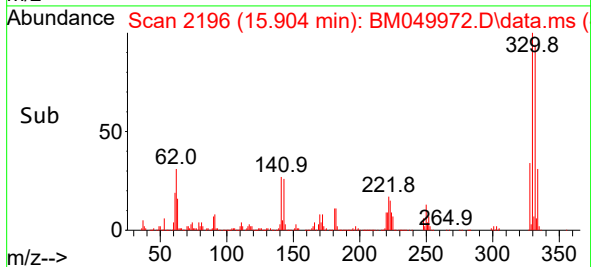
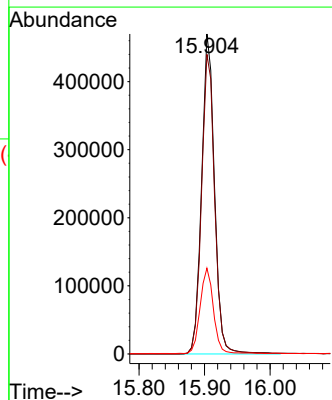
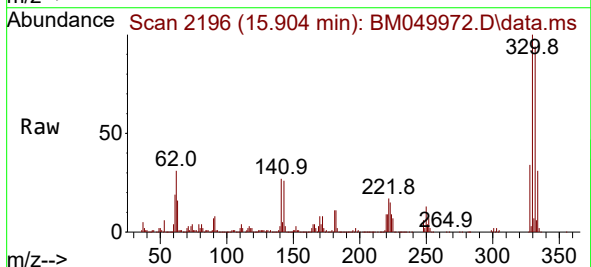
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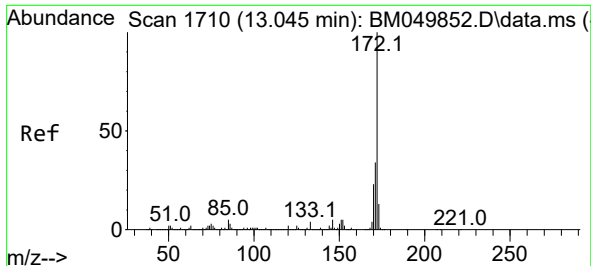
Tgt Ion:164 Resp: 1408514  
Ion Ratio Lower Upper  
164 100  
162 100.1 79.4 119.0  
160 44.9 36.2 54.2



#42  
2,4,6-Tribromophenol  
Concen: 31.441 ng  
RT: 15.904 min Scan# 2196  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion:330 Resp: 644150  
Ion Ratio Lower Upper  
330 100  
332 95.5 78.0 117.0  
141 27.8 23.5 35.3

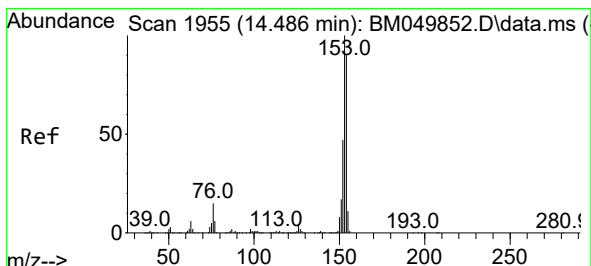
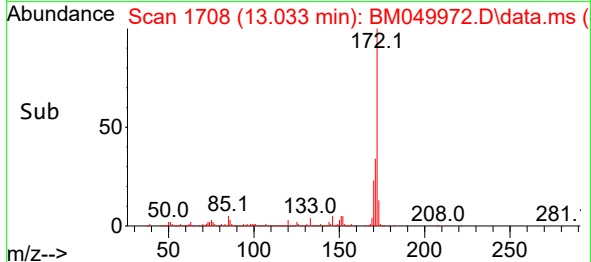
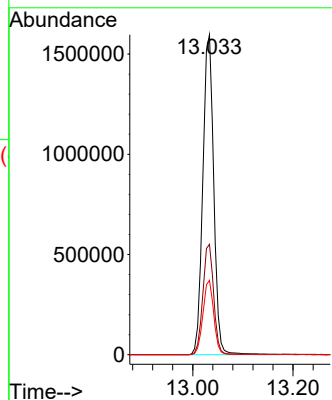
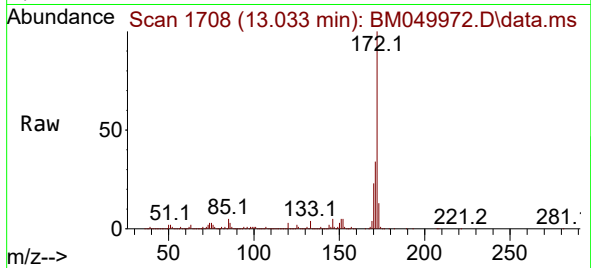




#45  
2-Fluorobiphenyl  
Concen: 23.256 ng  
RT: 13.033 min Scan# 1710  
Delta R.T. -0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

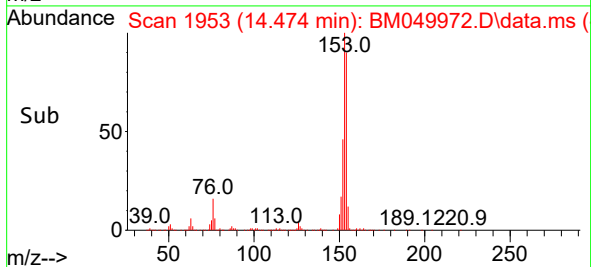
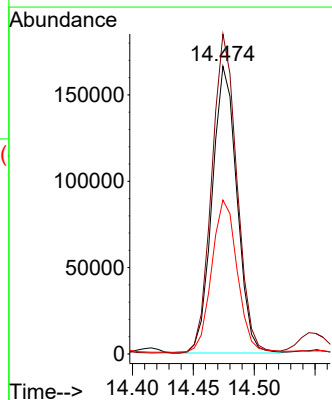
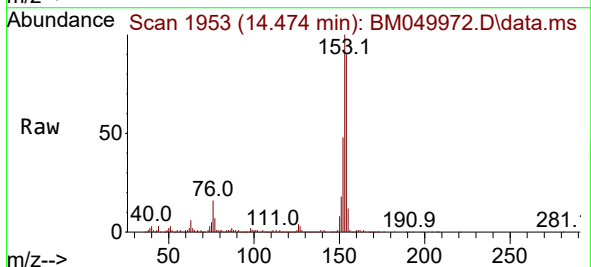
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Tgt Ion:172 Resp: 2415654  
Ion Ratio Lower Upper  
172 100  
171 34.5 27.4 41.2  
170 23.3 18.6 28.0

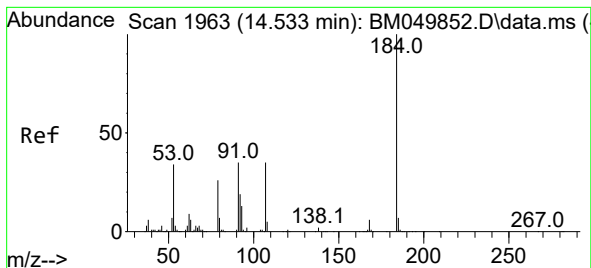


#52  
Acenaphthene  
Concen: 3.087 ng  
RT: 14.474 min Scan# 1953  
Delta R.T. -0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion:154 Resp: 235389  
Ion Ratio Lower Upper  
154 100  
153 111.2 89.3 133.9  
152 53.5 42.2 63.2



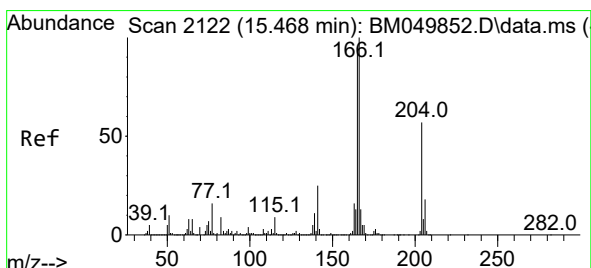
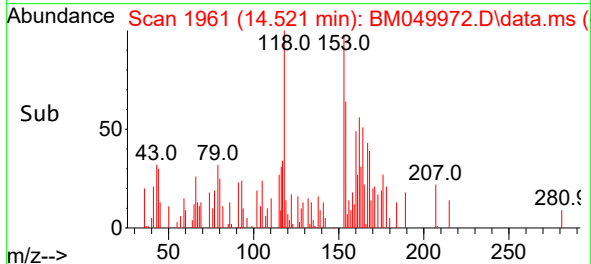
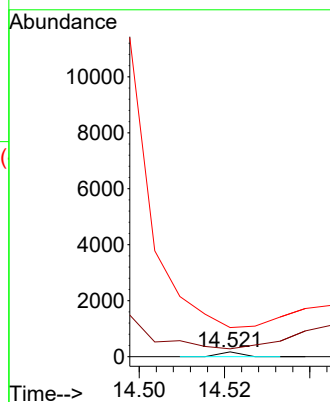
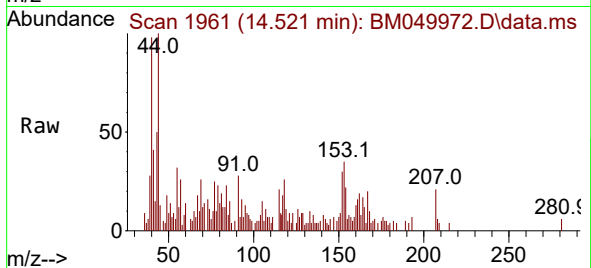




#54  
2,4-Dinitrophenol  
Concen: 7.228 ng  
RT: 14.521 min Scan# 1961  
Delta R.T. -0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

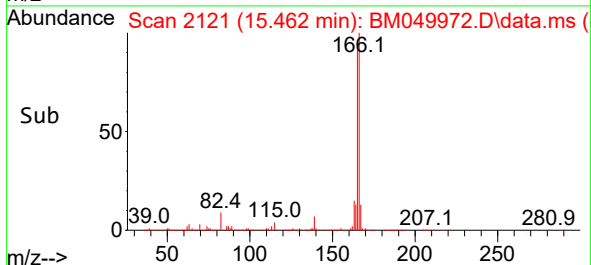
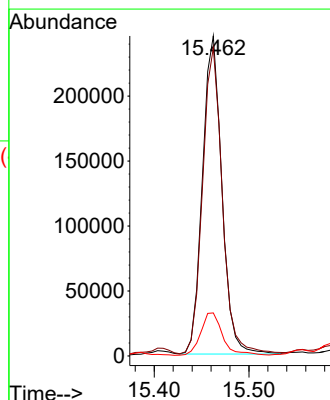
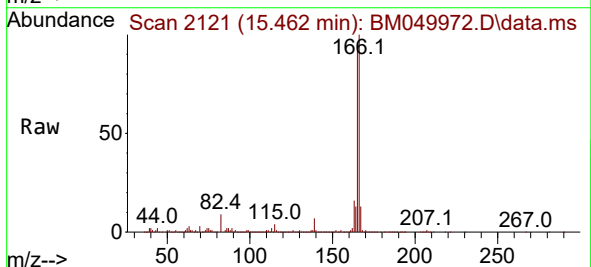
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ClientSampleId :  
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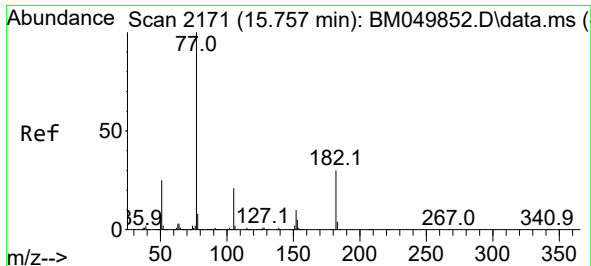
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Ion Ratio Lower Upper  
184 100  
63 165.3 38.4 57.6#  
154 612.9 48.1 72.1#



#58  
Fluorene  
Concen: 3.449 ng  
RT: 15.462 min Scan# 2121  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion:166 Resp: 349482  
Ion Ratio Lower Upper  
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165 96.3 76.3 114.5  
167 13.5 10.7 16.1

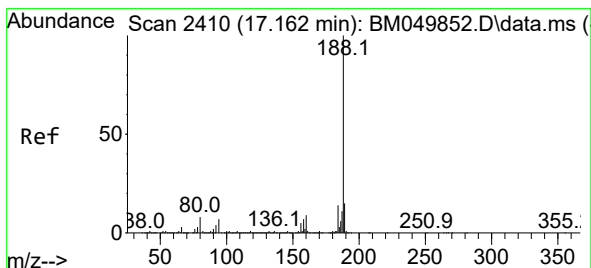
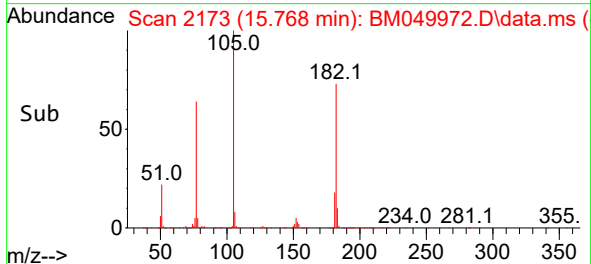
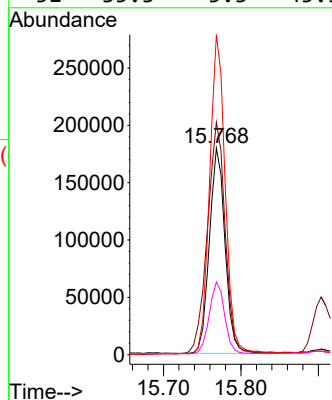
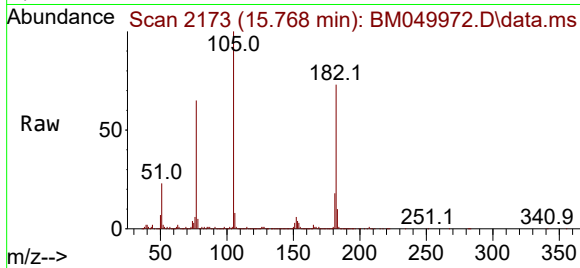




#63  
Azobenzene  
Concen: 3.097 ng  
RT: 15.768 min Scan# 2171  
Delta R.T. 0.012 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

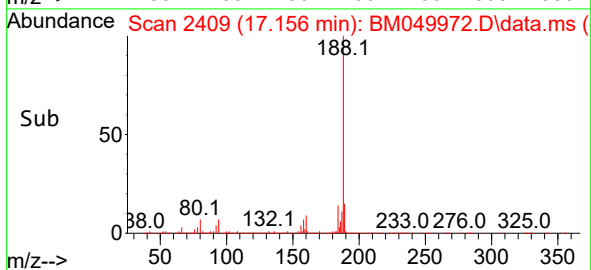
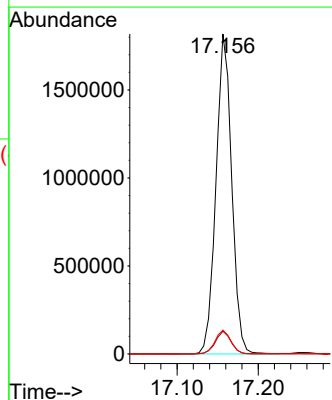
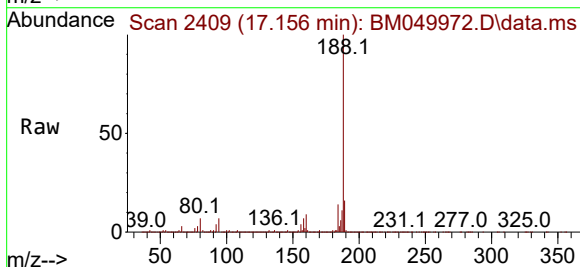
Instrument :  
BNA\_M  
ClientSampleId :  
PL-714-COMP-03

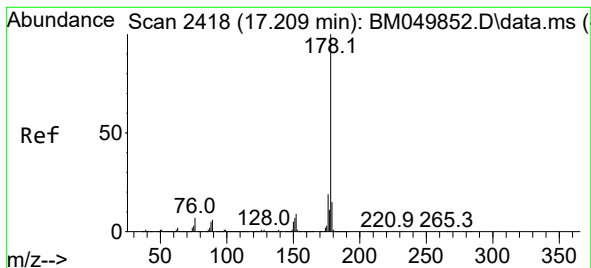
Tgt Ion: 77 Resp: 252658  
Ion Ratio Lower Upper  
77 100  
182 112.5 10.4 50.4#  
105 154.9 1.5 41.5#  
51 35.3 5.3 45.3



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.156 min Scan# 2409  
Delta R.T. -0.006 min  
Lab File: BM049972.D  
Acq: 18 Apr 2025 19:04

Tgt Ion: 188 Resp: 2446928  
Ion Ratio Lower Upper  
188 100  
94 7.1 5.8 8.6  
80 7.5 6.4 9.6





#71

Phenanthrene

Concen: 32.776 ng

RT: 17.198 min Scan# 2418

Delta R.T. -0.012 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

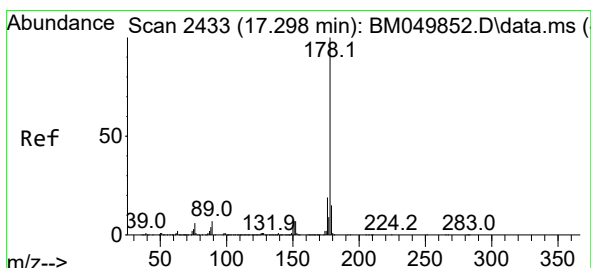
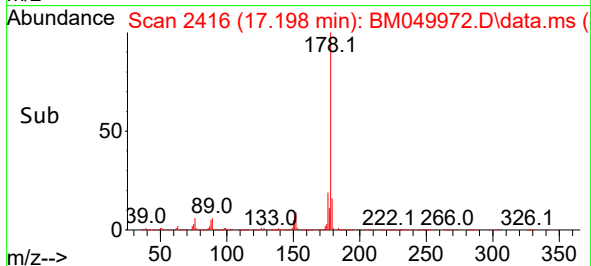
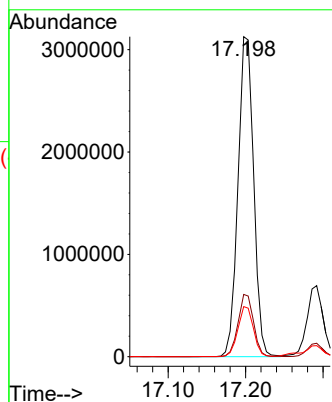
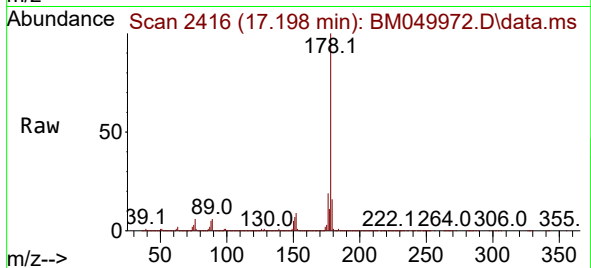
Tgt Ion:178 Resp: 4396875

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.6 12.3 18.5



#72

Anthracene

Concen: 7.375 ng

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

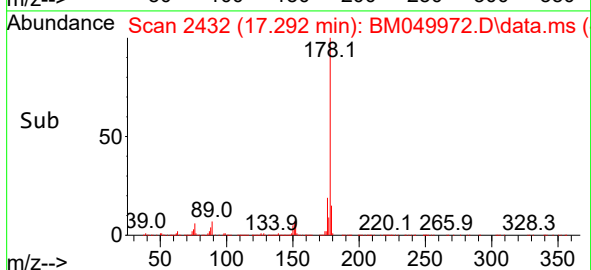
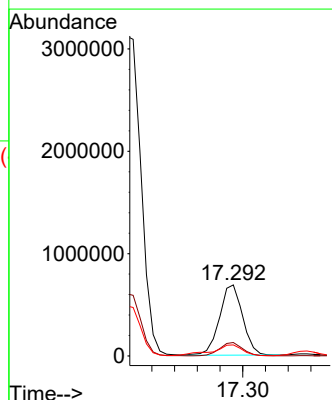
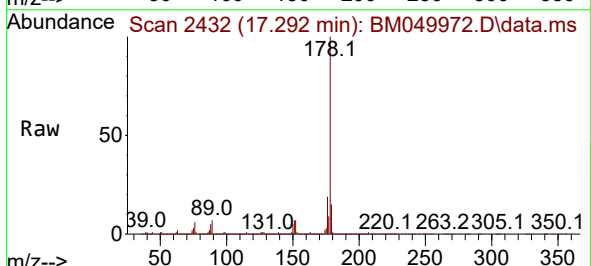
Tgt Ion:178 Resp: 974944

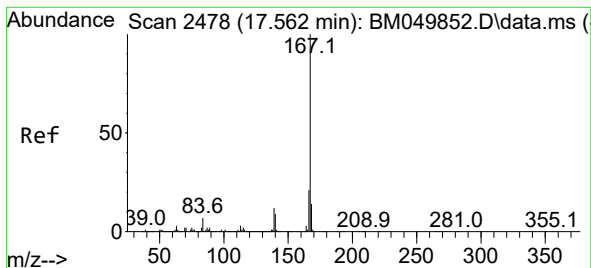
Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.5 12.4 18.6





#73

Carbazole

Concen: 3.592 ng

RT: 17.562 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

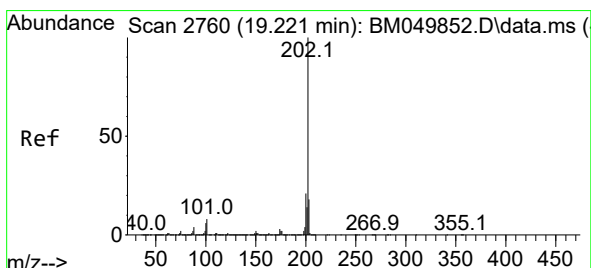
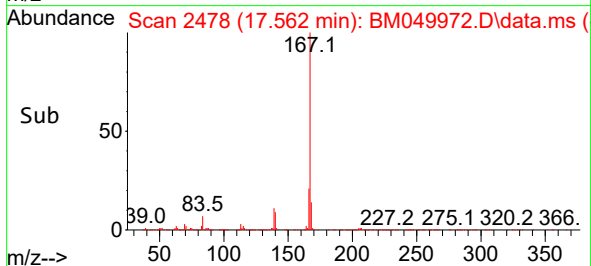
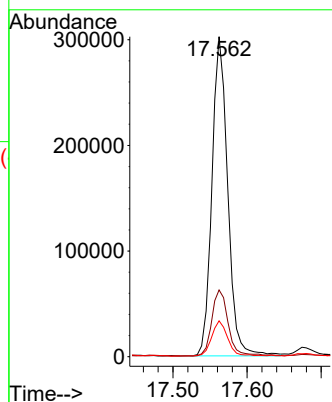
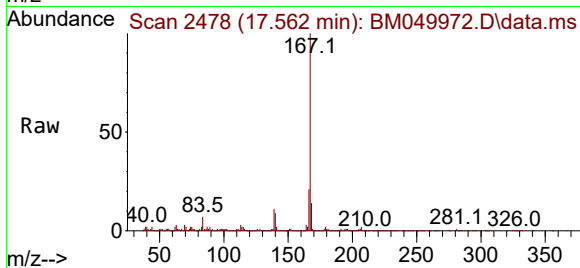
Tgt Ion:167 Resp: 447282

Ion Ratio Lower Upper

167 100

166 20.9 16.9 25.3

139 11.2 9.3 13.9



#75

Fluoranthene

Concen: 48.139 ng

RT: 19.221 min Scan# 2760

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

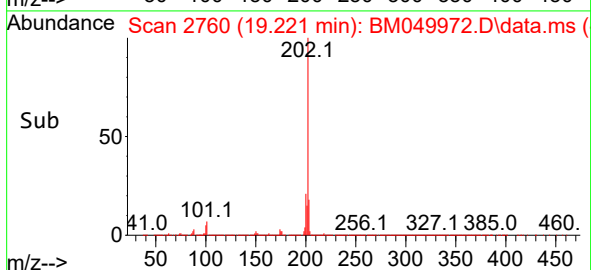
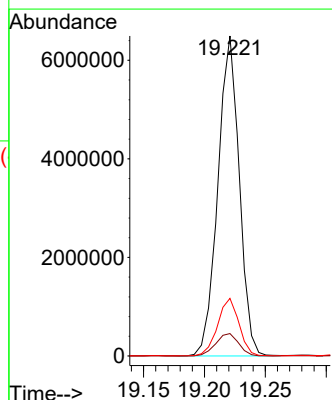
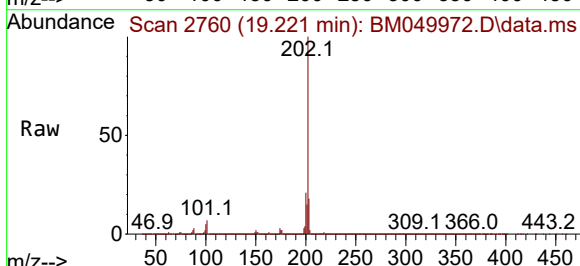
Tgt Ion:202 Resp: 7940281

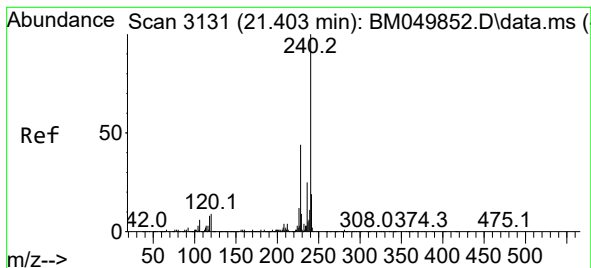
Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.4

203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

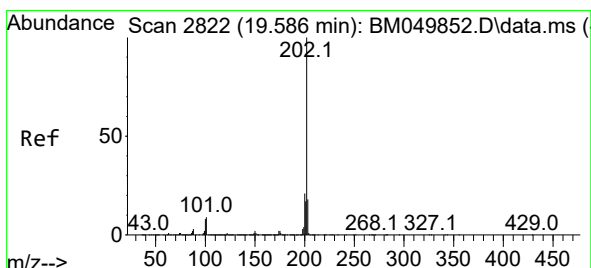
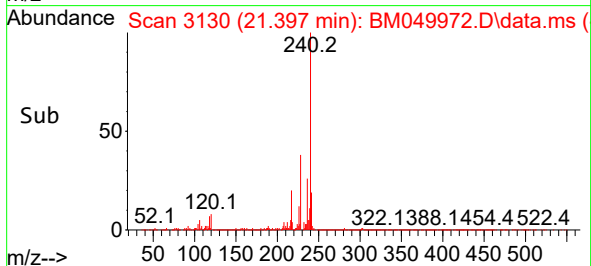
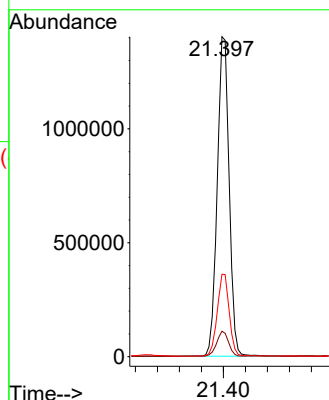
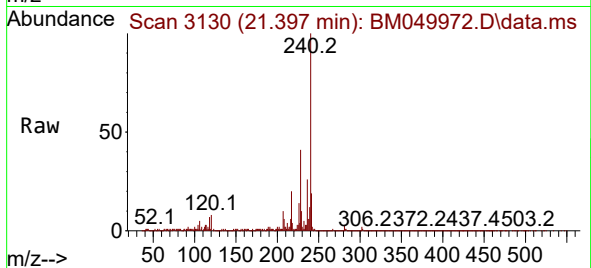
Tgt Ion:240 Resp: 2109574

Ion Ratio Lower Upper

240 100

120 8.0 6.9 10.3

236 25.8 20.4 30.6



#78

Pyrene

Concen: 43.854 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

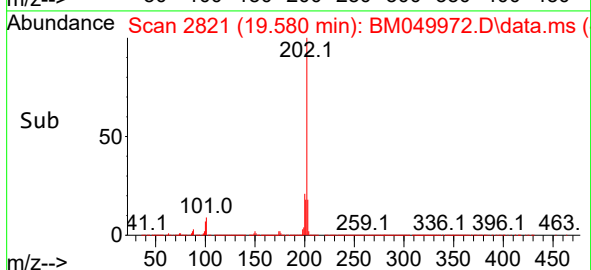
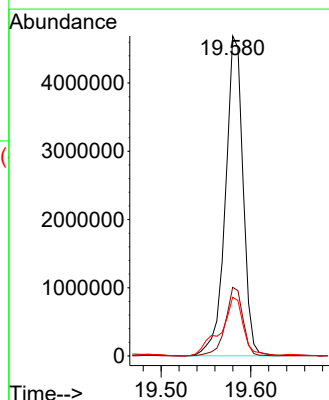
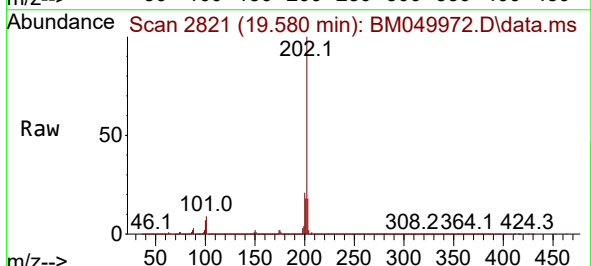
Tgt Ion:202 Resp: 6375855

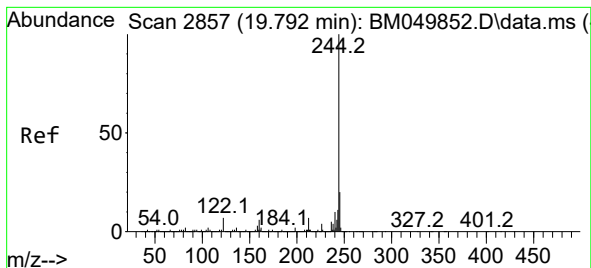
Ion Ratio Lower Upper

202 100

200 21.4 16.5 24.7

203 18.4 14.0 21.0





#79

Terphenyl-d14

Concen: 21.365 ng

RT: 19.780 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

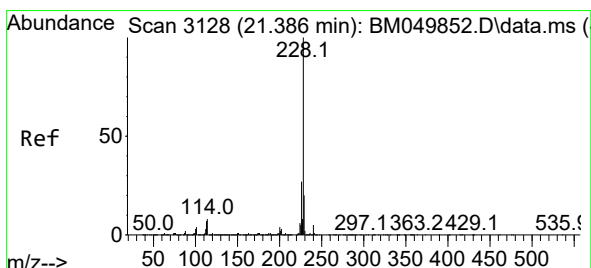
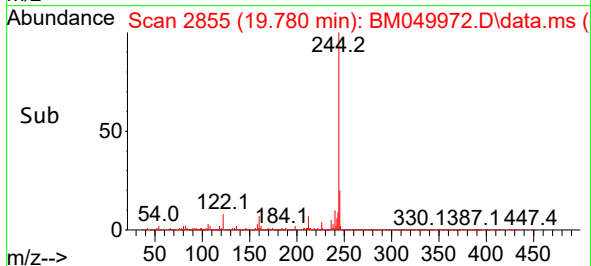
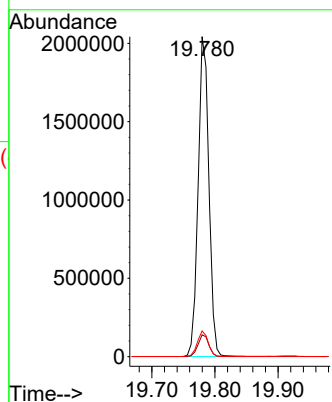
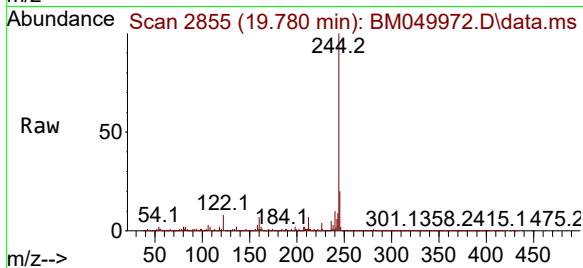
Tgt Ion:244 Resp: 2404987

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 8.1 5.4 8.0#



#81

Benzo(a)anthracene

Concen: 22.876 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

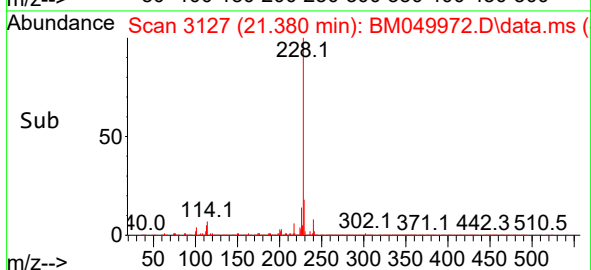
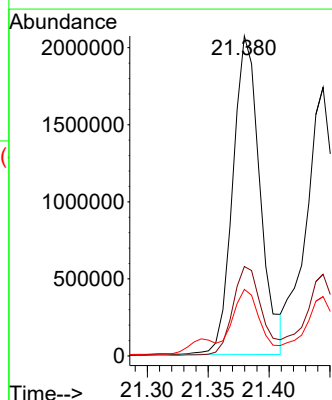
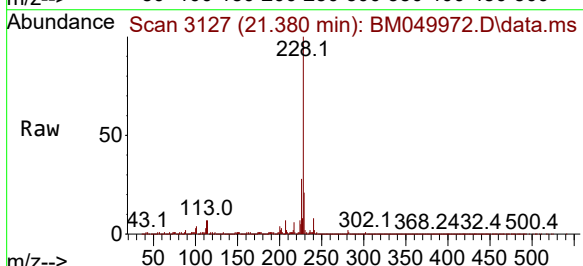
Tgt Ion:228 Resp: 3207251

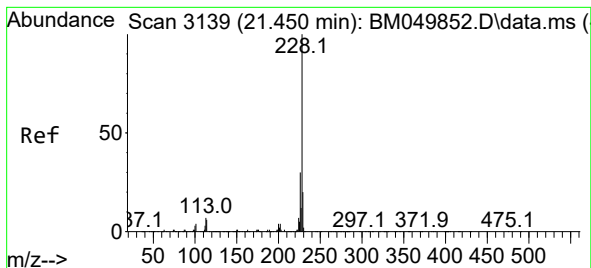
Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.8

229 20.8 15.8 23.8





#83

Chrysene

Concen: 20.917 ng

RT: 21.444 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

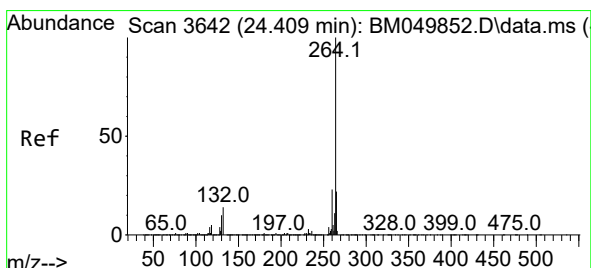
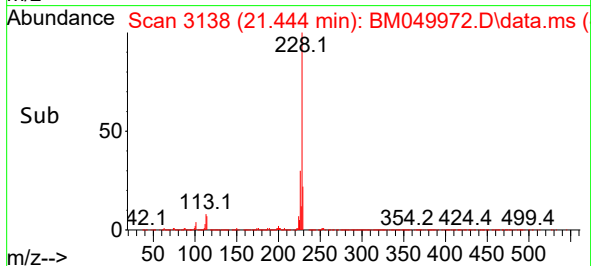
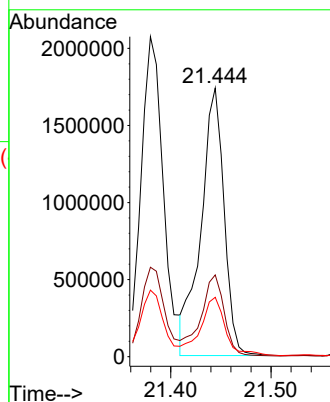
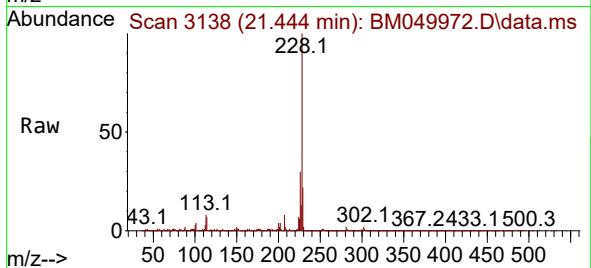
Tgt Ion:228 Resp: 2787972

Ion Ratio Lower Upper

228 100

226 30.4 24.1 36.1

229 22.1 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3641

Delta R.T. -0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

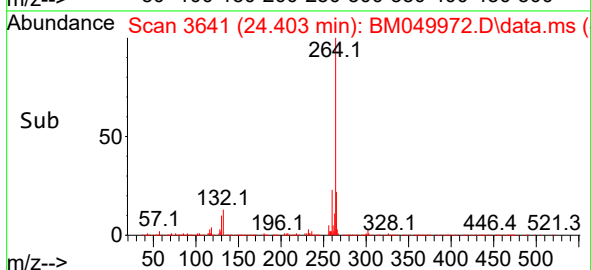
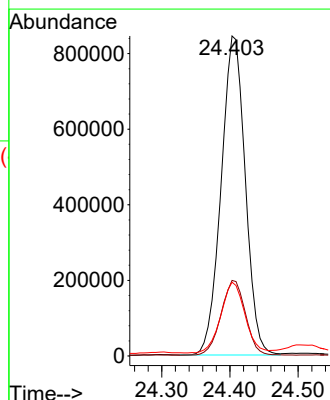
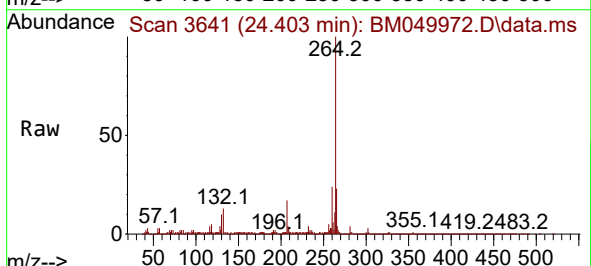
Tgt Ion:264 Resp: 2083176

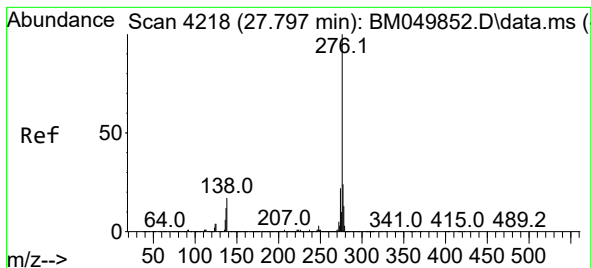
Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 23.1 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.549 ng

RT: 27.797 min Scan# 41

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

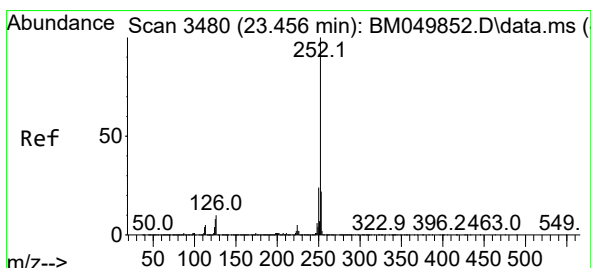
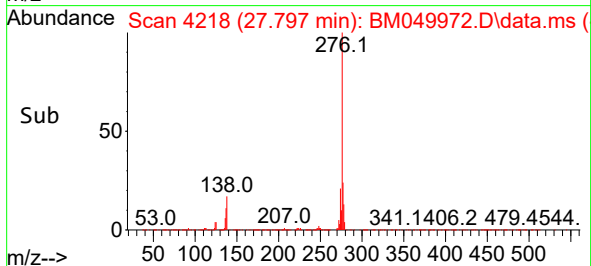
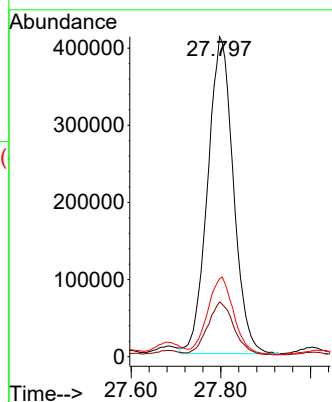
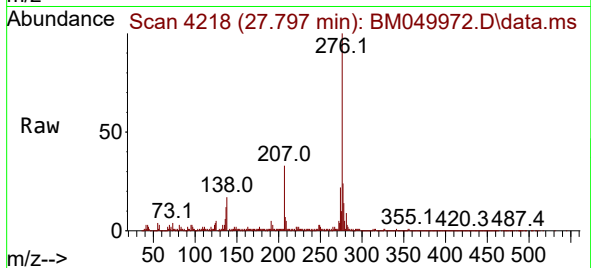
Tgt Ion:276 Resp: 1638078

Ion Ratio Lower Upper

276 100

138 17.1 16.8 25.2

277 25.1 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 27.226 ng

RT: 23.462 min Scan# 3481

Delta R.T. 0.006 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

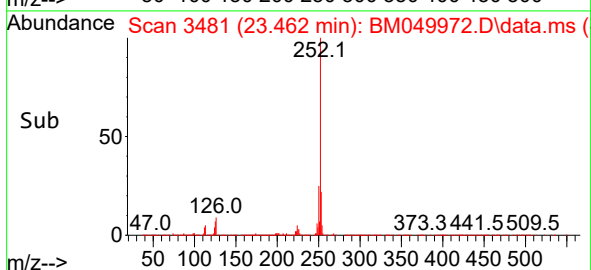
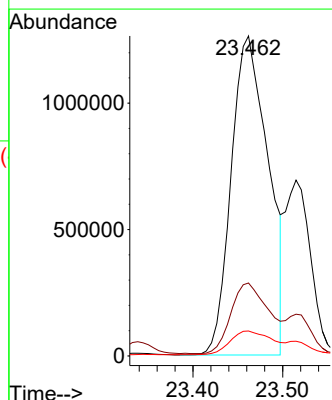
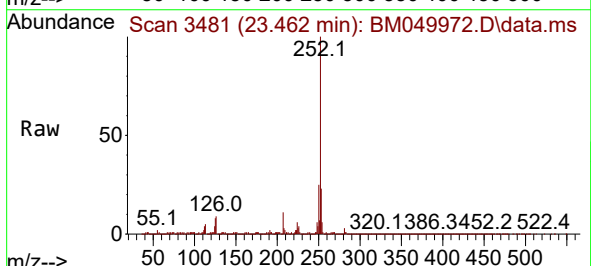
Tgt Ion:252 Resp: 3622307

Ion Ratio Lower Upper

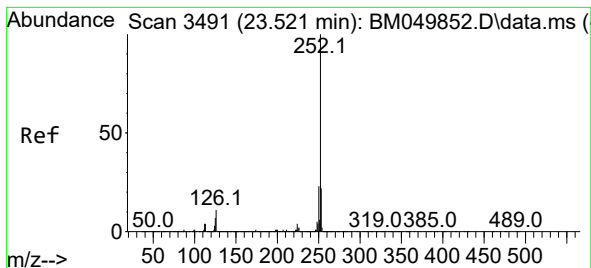
252 100

253 22.8 17.5 26.3

125 7.8 6.2 9.4







#89

Benzo(k)fluoranthene

Concen: 28.095 ng

RT: 23.462 min Scan# 34

Delta R.T. -0.059 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

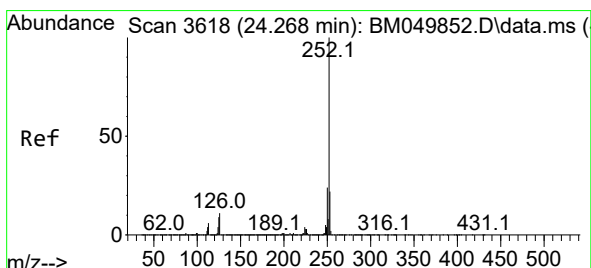
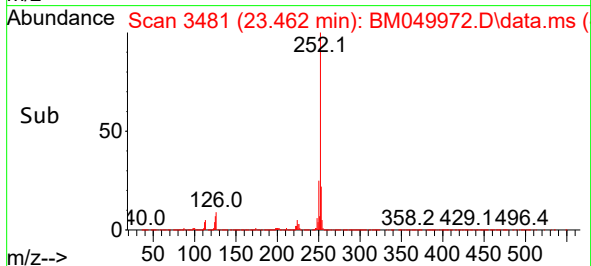
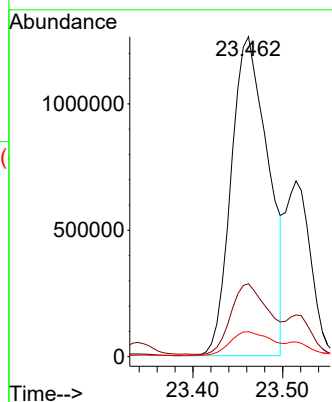
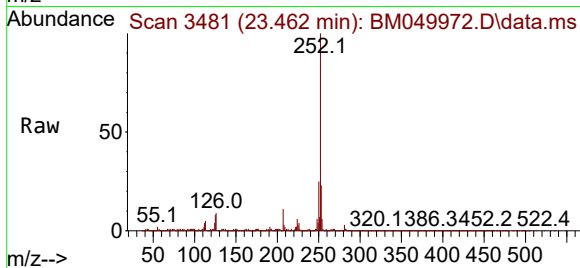
Tgt Ion:252 Resp: 3622307

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

125 7.8 5.8 8.8



#90

Benzo(a)pyrene

Concen: 22.796 ng

RT: 24.268 min Scan# 3618

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

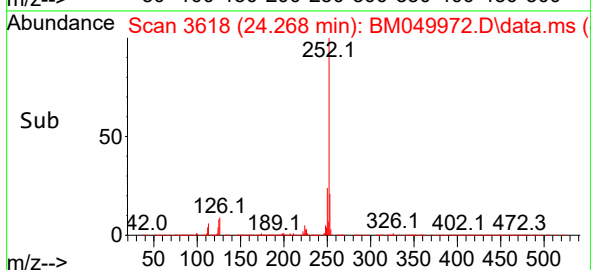
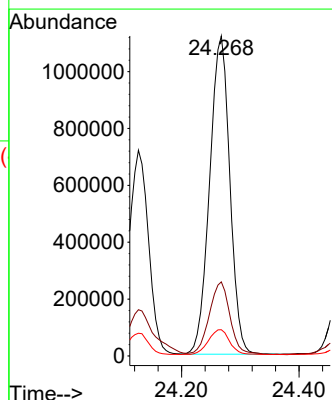
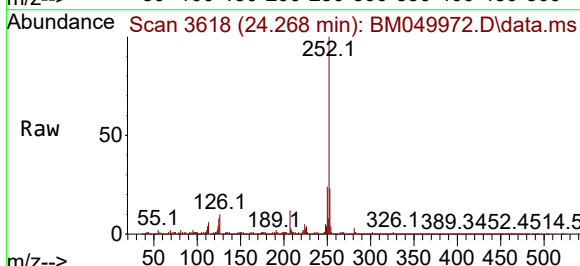
Tgt Ion:252 Resp: 2665117

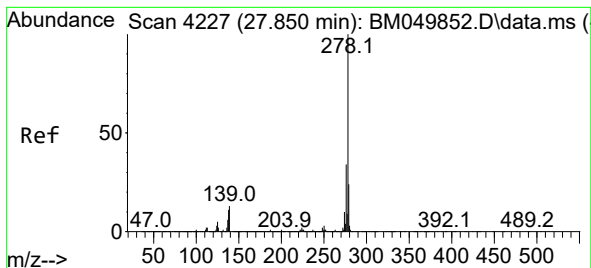
Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

125 8.2 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 3.359 ng

RT: 27.832 min Scan# 41

Delta R.T. -0.018 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Instrument :

BNA\_M

ClientSampleId :

PL-714-COMP-03

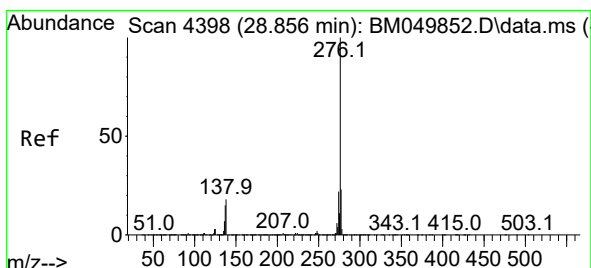
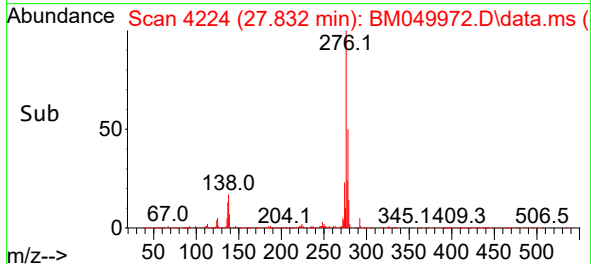
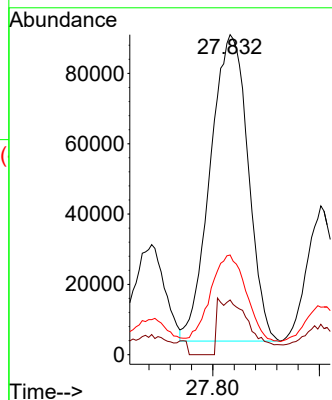
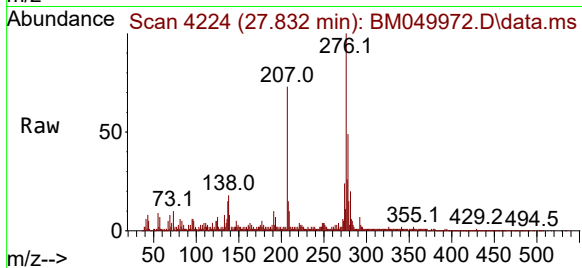
Tgt Ion:278 Resp: 429607

Ion Ratio Lower Upper

278 100

139 17.1 10.6 15.8#

279 31.2 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 11.675 ng

RT: 28.856 min Scan# 4398

Delta R.T. -0.000 min

Lab File: BM049972.D

Acq: 18 Apr 2025 19:04

Tgt Ion:276 Resp: 1525958

Ion Ratio Lower Upper

276 100

277 24.2 18.7 28.1

138 17.5 14.6 21.8

