

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
 Data File : BM049908.D  
 Acq On : 11 Apr 2025 19:32  
 Operator : RC/JU  
 Sample : Q1771-05 5X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-7C

Quant Time: Apr 11 23:04:32 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

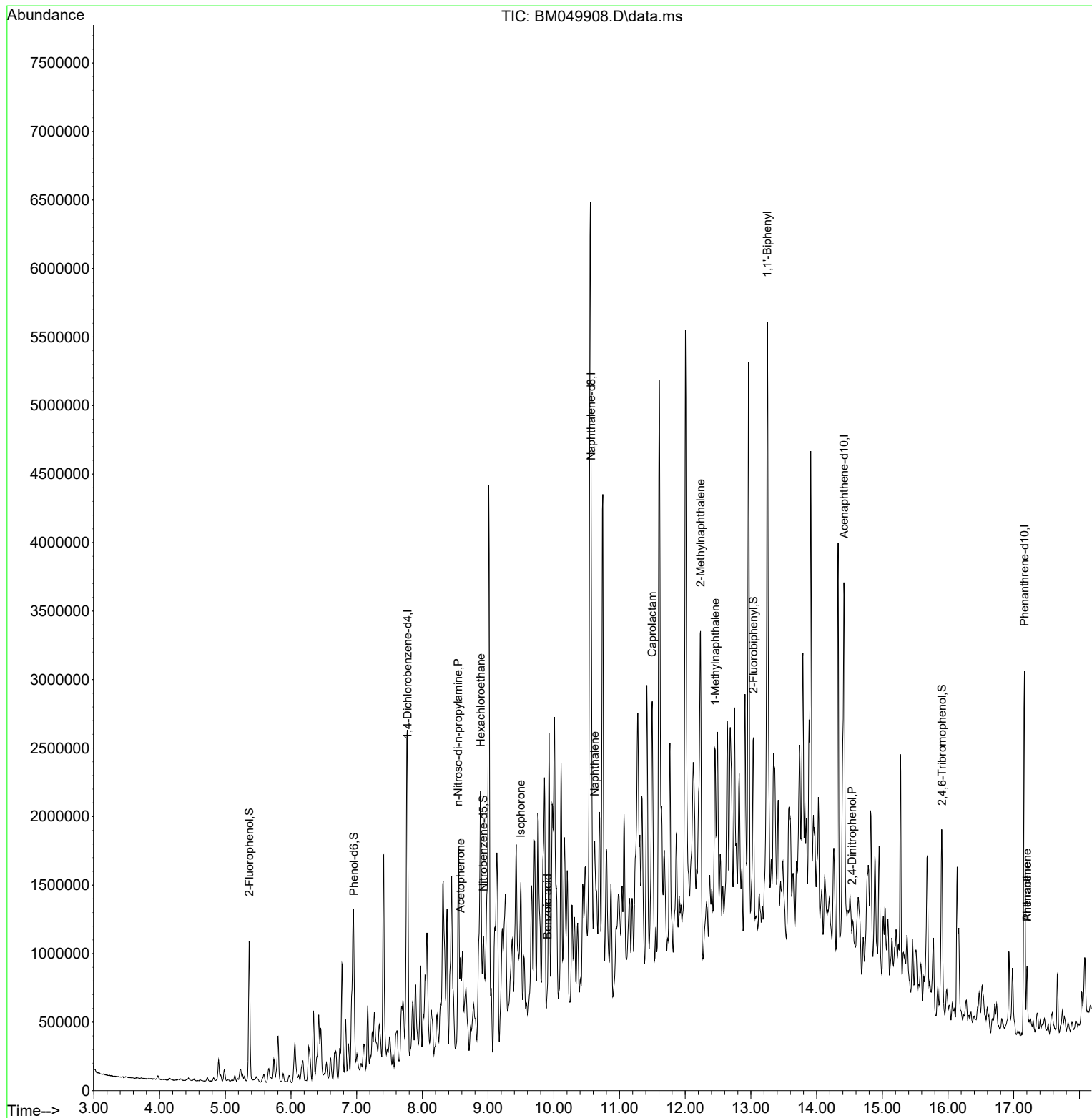
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.775  | 152  | 365200   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.569 | 136  | 1196803  | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.416 | 164  | 797301   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.162 | 188  | 1590646  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12              | 21.398 | 240  | 1525389  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.403 | 264  | 1767718  | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.363  | 112  | 429811   | 19.985 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.957  | 99   | 511215   | 19.105 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 8.928  | 82   | 314968   | 14.655 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.910 | 330  | 232391   | 20.039 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.039 | 172  | 776369   | 13.204 | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.786 | 244  | 1065789  | 13.094 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 18) Hexachloroethane          | 8.887  | 117  | 95036    | 10.418 | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 8.545  | 70   | 61184    | 4.128  | ng    | # 59     |
| 22) Acetophenone              | 8.581  | 105  | 325980   | 11.207 | ng    | # 59     |
| 25) Isophorone                | 9.498  | 82   | 120226   | 3.339  | ng    | # 1      |
| 31) Naphthalene               | 10.622 | 128  | 339285   | 5.517  | ng    | # 92     |
| 32) Benzoic acid              | 9.904  | 122  | 1537     | 8.620  | ng    | # 1      |
| 35) Caprolactam               | 11.498 | 113  | 32840    | 5.541  | ng    | # 1      |
| 37) 2-Methylnaphthalene       | 12.233 | 142  | 638987   | 14.748 | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.457 | 142  | 471929   | 11.180 | ng    | # 99     |
| 46) 1,1'-Biphenyl             | 13.251 | 154  | 156761   | 2.645  | ng    | 99       |
| 54) 2,4-Dinitrophenol         | 14.539 | 184  | 318      | 7.259  | ng    | # 1      |
| 71) Phenanthrene              | 17.204 | 178  | 309932   | 3.554  | ng    | 99       |
| 72) Anthracene                | 17.204 | 178  | 309932   | 3.606  | ng    | 98       |
| 75) Fluoranthene              | 19.215 | 202  | 432052   | 4.029  | ng    | 98       |
| 78) Pyrene                    | 19.580 | 202  | 448140   | 4.263  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.380 | 228  | 227291   | 2.242  | ng    | # 88     |
| 83) Chrysene                  | 21.439 | 228  | 249952   | 2.593  | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 23.450 | 252  | 325236   | 2.881  | ng    | # 78     |
| 89) Benzo(k)fluoranthene      | 23.450 | 252  | 325236   | 2.973  | ng    | # 78     |
| 90) Benzo(a)pyrene            | 24.256 | 252  | 242520   | 2.445  | ng    | # 80     |
| -----                         |        |      |          |        |       |          |

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

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Sample : Q1771-05 5X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

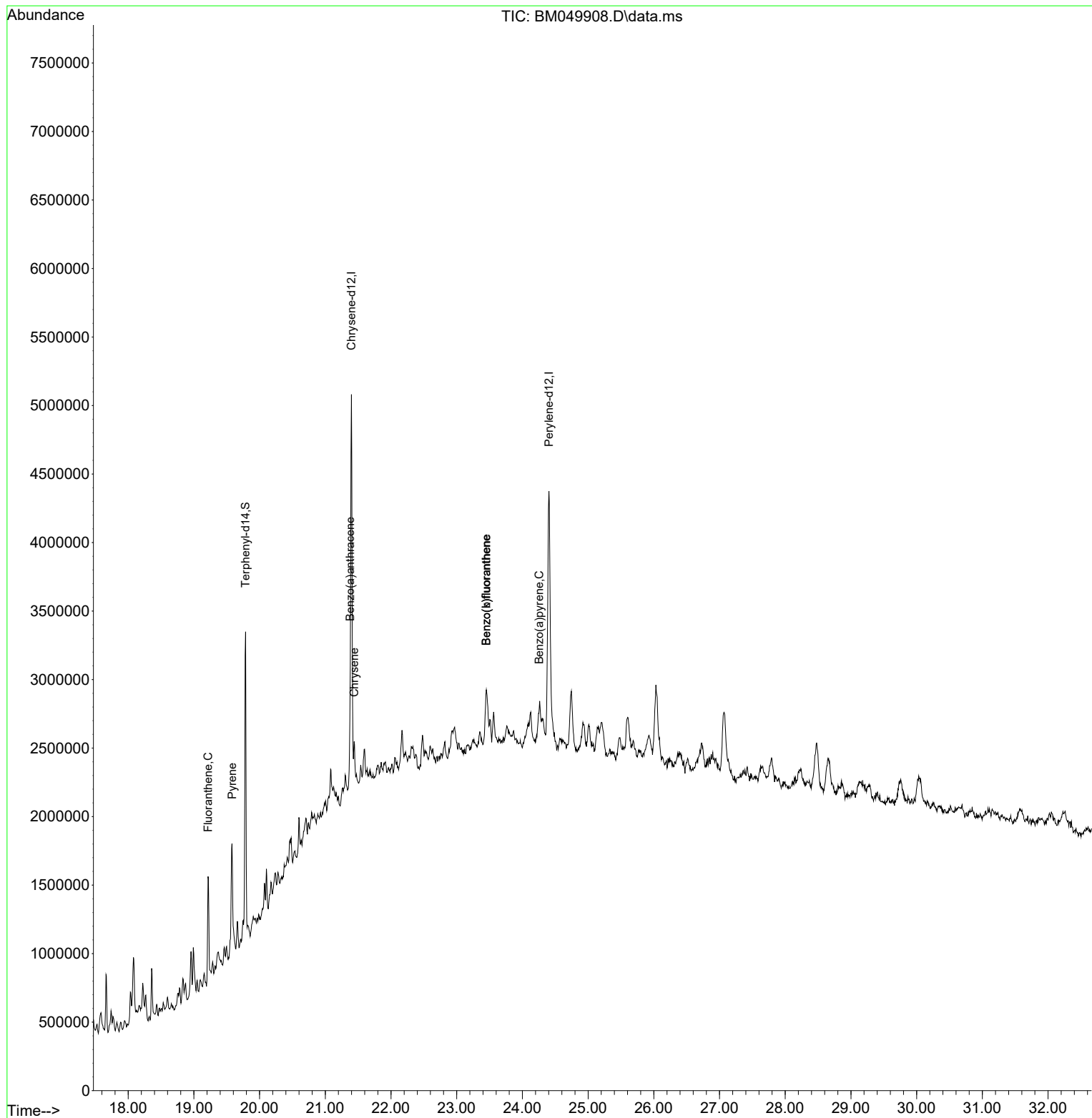
Quant Time: Apr 11 23:04:32 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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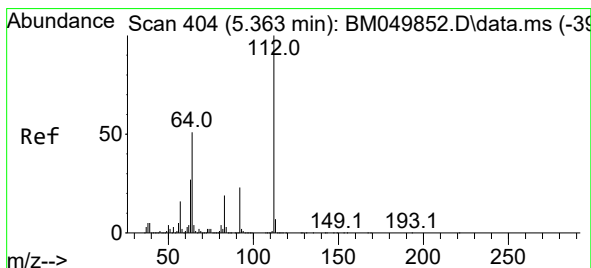
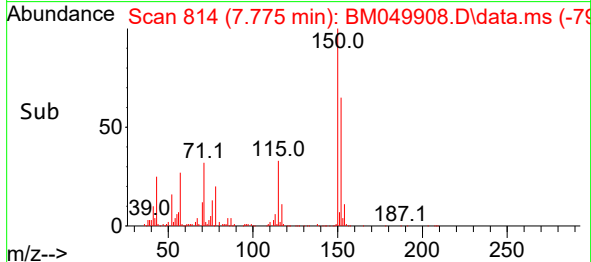
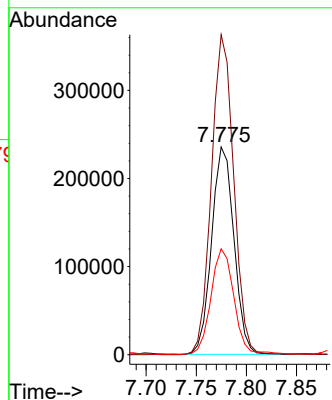
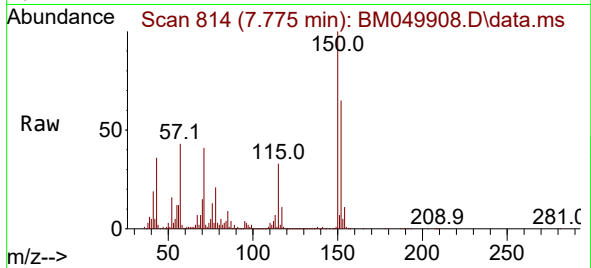




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.775 min Scan# 815  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

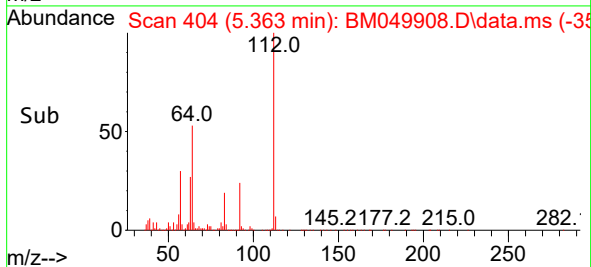
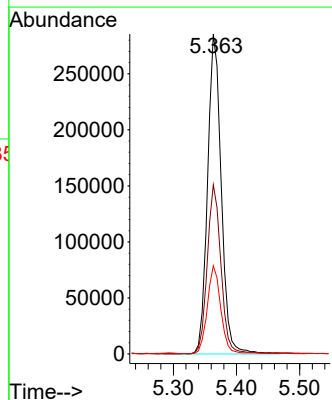
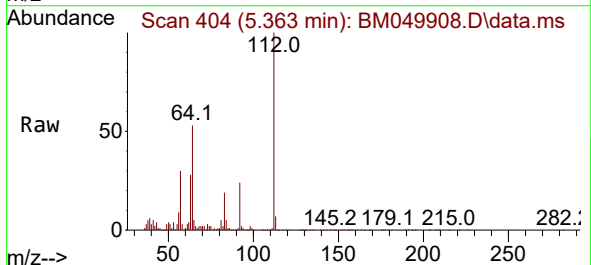
Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

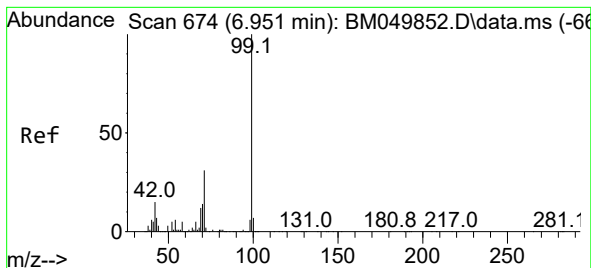
Tgt Ion:152 Resp: 365200  
Ion Ratio Lower Upper  
152 100  
150 154.1 124.3 186.5  
115 51.0 41.1 61.7



#5  
2-Fluorophenol  
Concen: 19.985 ng  
RT: 5.363 min Scan# 404  
Delta R.T. 0.000 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:112 Resp: 429811  
Ion Ratio Lower Upper  
112 100  
64 52.9 41.0 61.6  
63 27.5 21.5 32.3





#7

Phenol-d6

Concen: 19.105 ng

RT: 6.957 min Scan# 61

Delta R.T. 0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

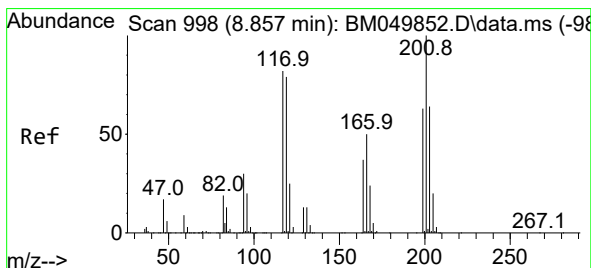
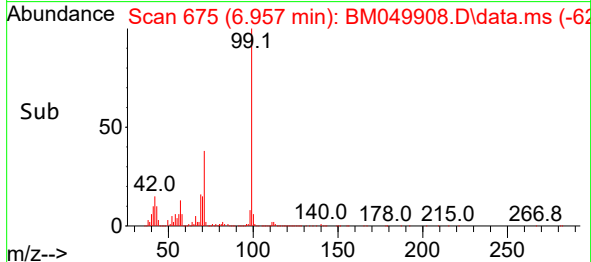
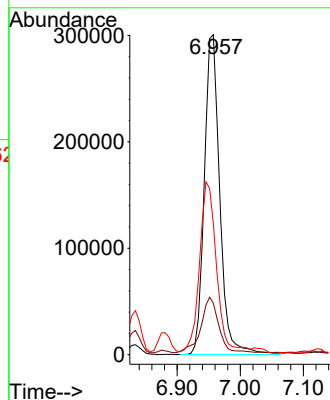
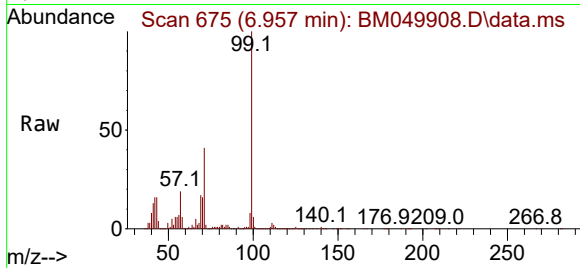
Tgt Ion: 99 Resp: 511215

Ion Ratio Lower Upper

99 100

42 16.1 12.1 18.1

71 41.0 24.9 37.3#



#18

Hexachloroethane

Concen: 10.418 ng

RT: 8.887 min Scan# 1003

Delta R.T. 0.029 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

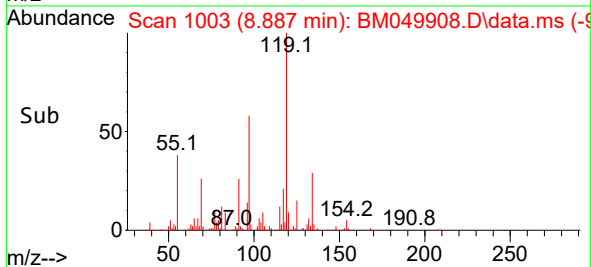
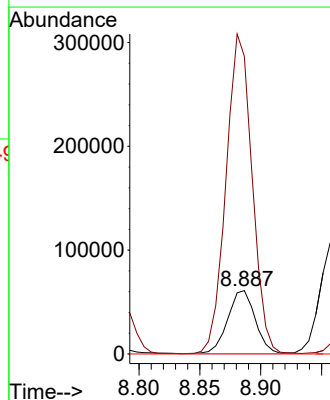
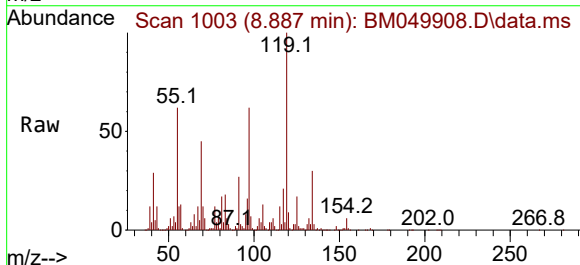
Tgt Ion: 117 Resp: 95036

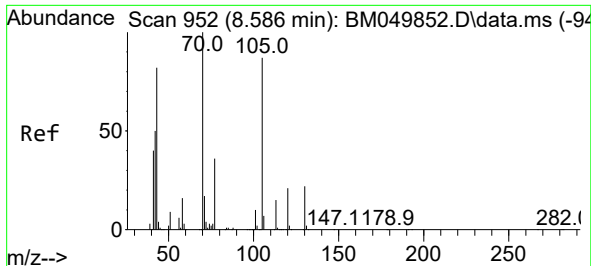
Ion Ratio Lower Upper

117 100

119 469.5 77.5 116.3#

201 0.0 97.7 146.5#

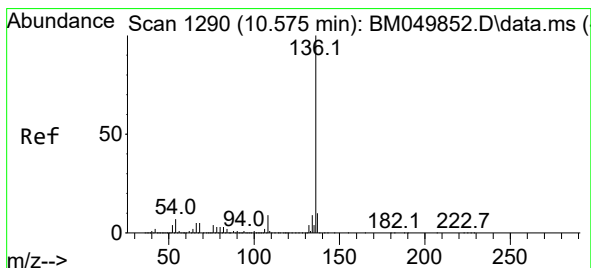
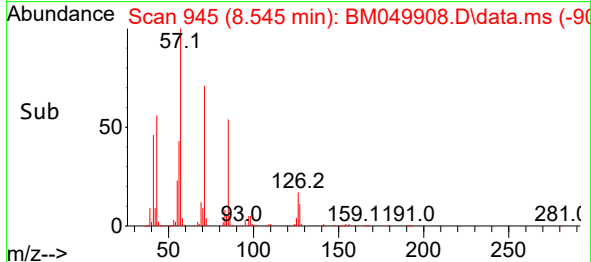
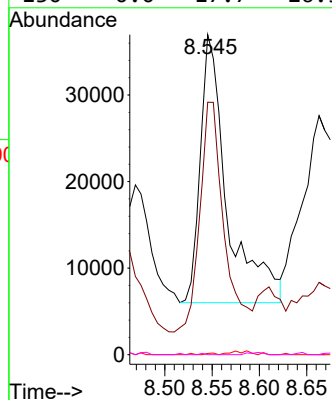
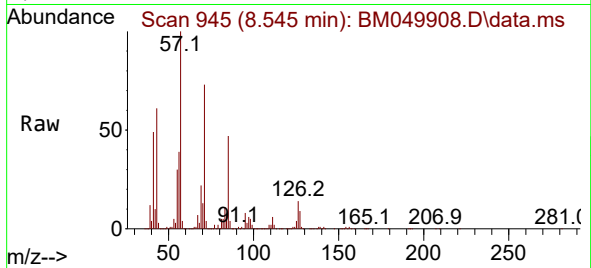




#19  
n-Nitroso-di-n-propylamine  
Concen: 4.128 ng  
RT: 8.545 min Scan# 94  
Delta R.T. -0.041 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

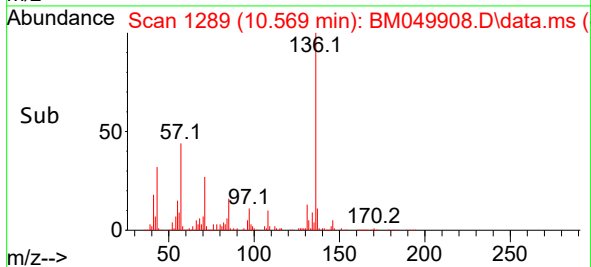
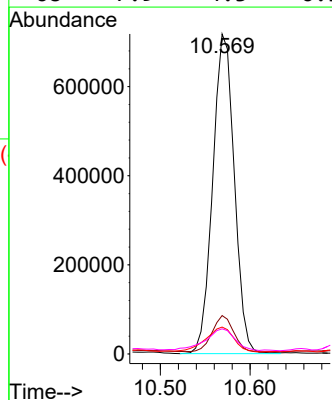
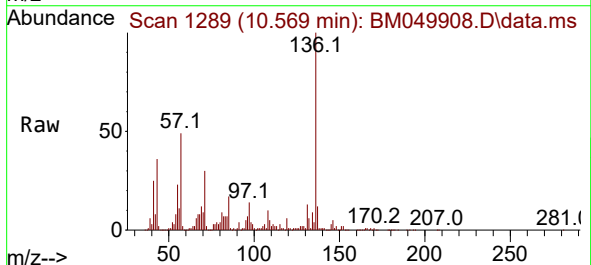
Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

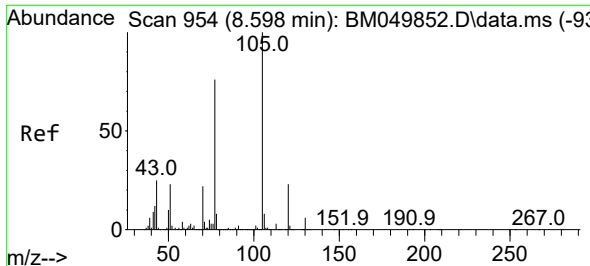
Tgt Ion: 70 Resp: 61184  
Ion Ratio Lower Upper  
70 100  
42 78.9 40.2 60.2#  
101 0.4 7.9 11.9#  
130 0.0 17.7 26.5#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.569 min Scan# 1289  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:136 Resp: 1196803  
Ion Ratio Lower Upper  
136 100  
137 12.0 8.4 12.6  
54 8.4 5.3 7.9#  
68 7.9 4.3 6.5#

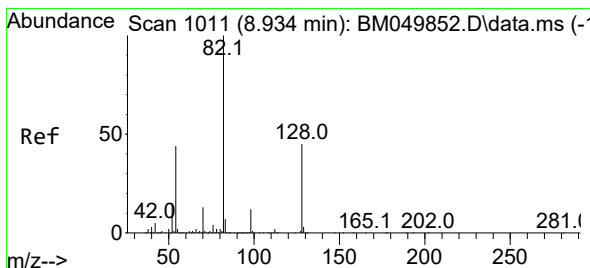
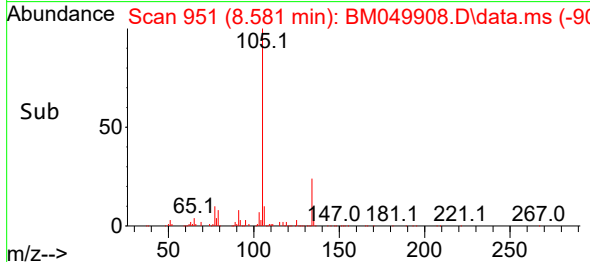
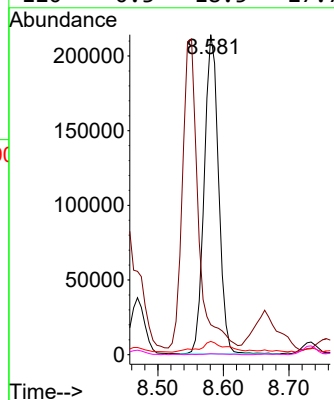
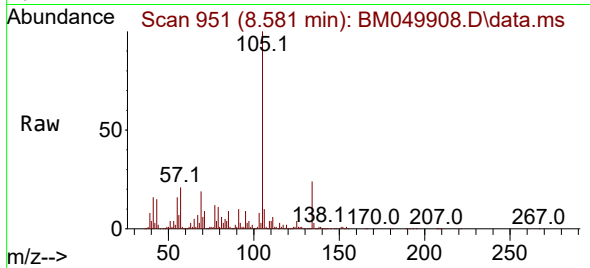




#22  
Acetophenone  
Concen: 11.207 ng  
RT: 8.581 min Scan# 91  
Delta R.T. -0.018 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

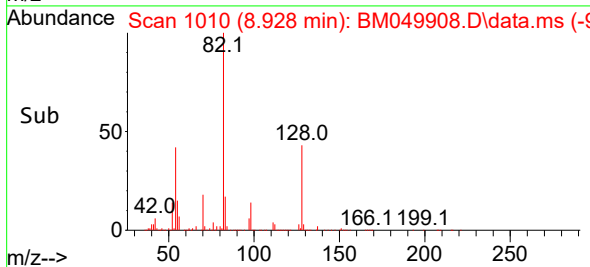
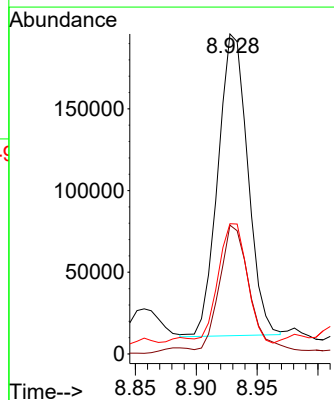
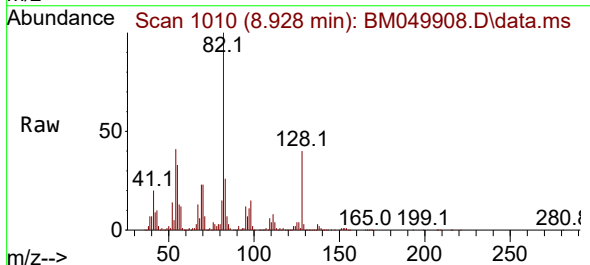
Instrument :  
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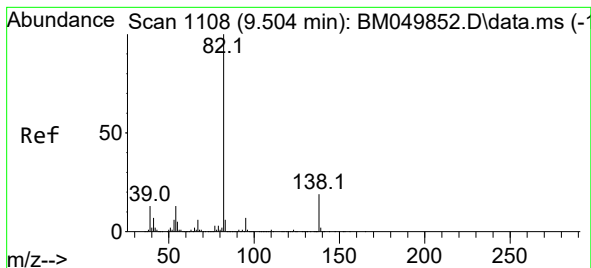
Tgt Ion:105 Resp: 325980  
Ion Ratio Lower Upper  
105 100  
71 9.4 3.0 4.4#  
51 4.2 18.6 27.8#  
120 0.3 18.5 27.7#



#23  
Nitrobenzene-d5  
Concen: 14.655 ng  
RT: 8.928 min Scan# 1010  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion: 82 Resp: 314968  
Ion Ratio Lower Upper  
82 100  
128 40.2 36.2 54.2  
54 40.7 35.0 52.6





#25

Isophorone

Concen: 3.339 ng

RT: 9.498 min Scan# 1107

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

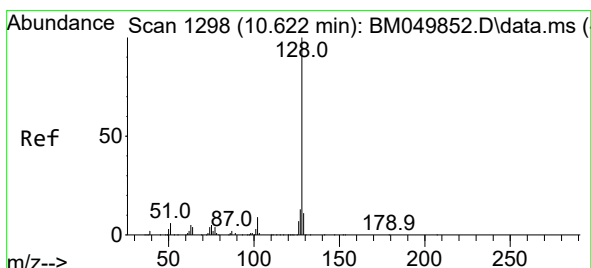
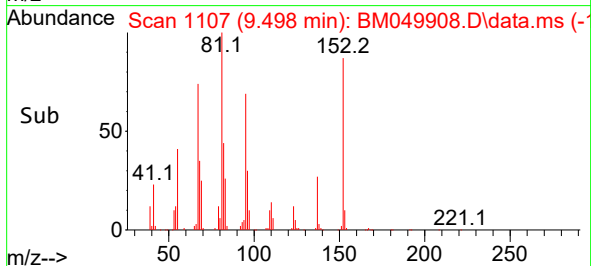
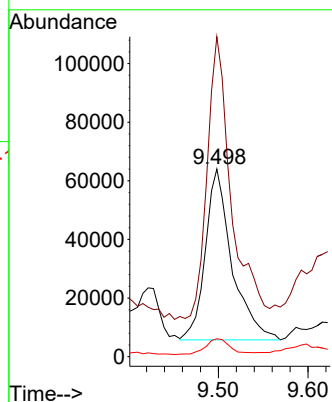
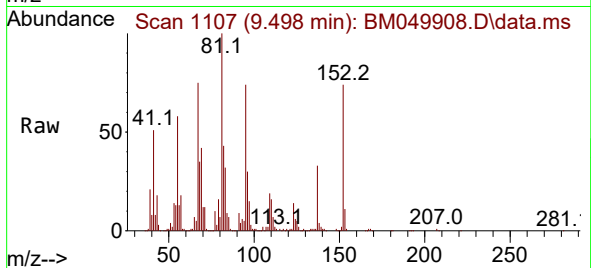
Tgt Ion: 82 Resp: 120226

Ion Ratio Lower Upper

82 100

95 170.4 5.4 8.2#

138 9.5 15.0 22.6#



#31

Naphthalene

Concen: 5.517 ng

RT: 10.622 min Scan# 1298

Delta R.T. 0.000 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

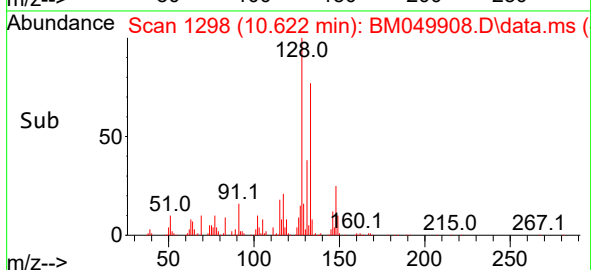
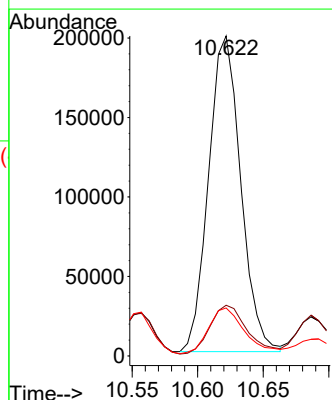
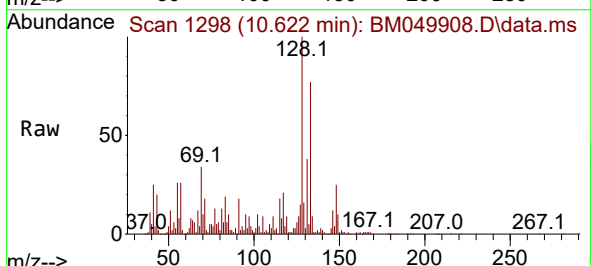
Tgt Ion:128 Resp: 339285

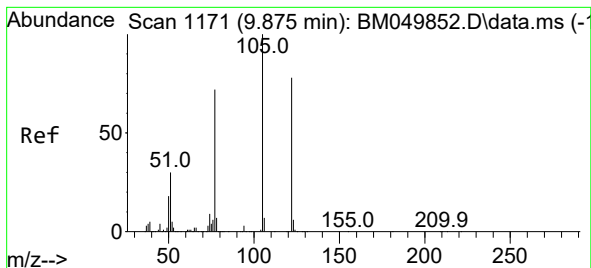
Ion Ratio Lower Upper

128 100

129 15.9 8.8 13.2#

127 15.0 10.6 15.8





#32

Benzoic acid

Concen: 8.620 ng

RT: 9.904 min Scan# 1176

Delta R.T. 0.029 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

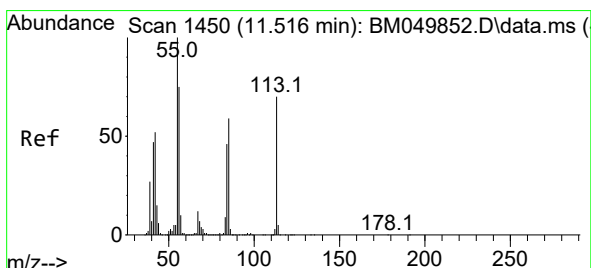
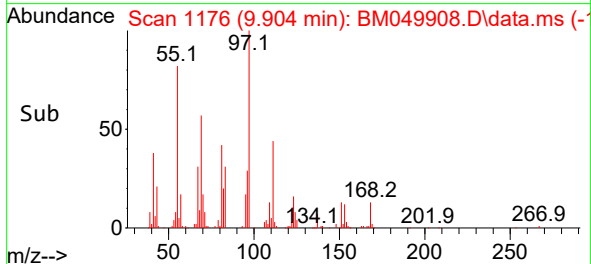
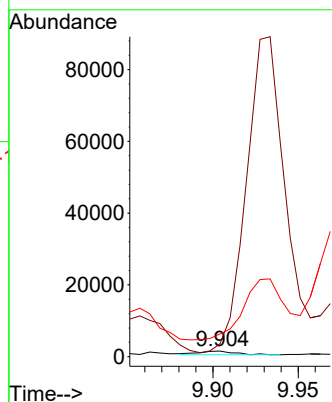
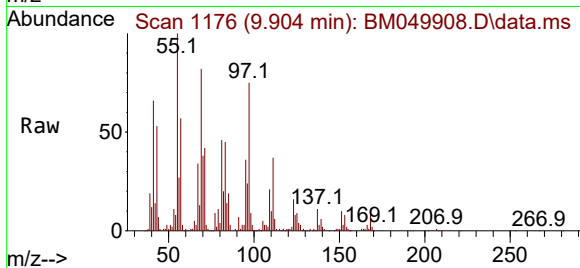
Tgt Ion:122 Resp: 1537

Ion Ratio Lower Upper

122 100

105 232.4 103.8 143.8#

77 406.5 70.7 110.7#



#35

Caprolactam

Concen: 5.541 ng

RT: 11.498 min Scan# 1447

Delta R.T. -0.018 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

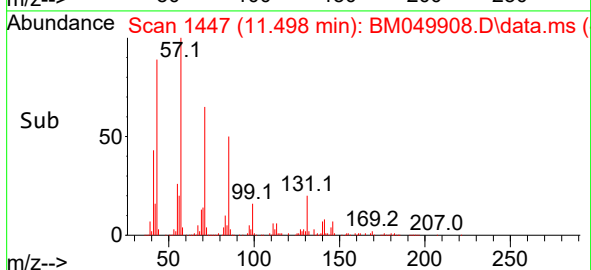
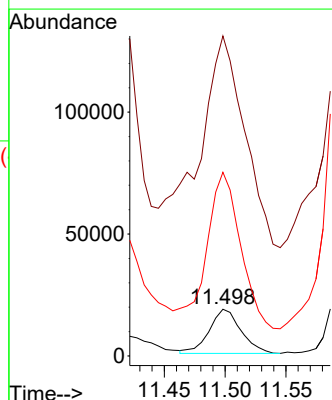
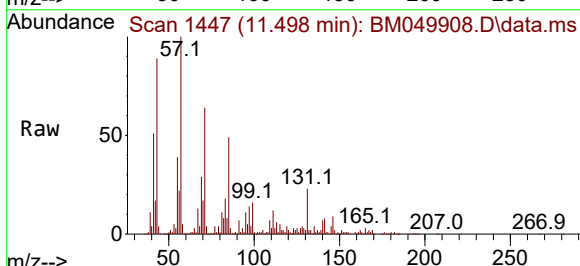
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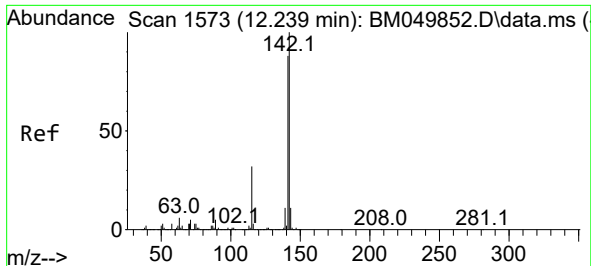
Ion Ratio Lower Upper

113 100

55 684.5 124.3 164.3#

56 392.9 87.5 127.5#

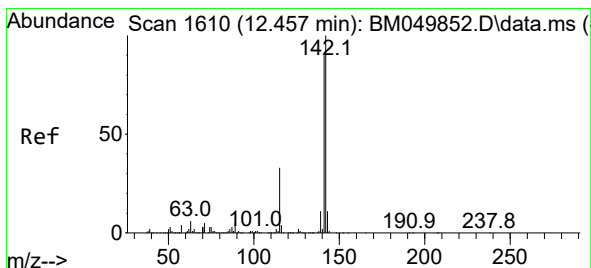
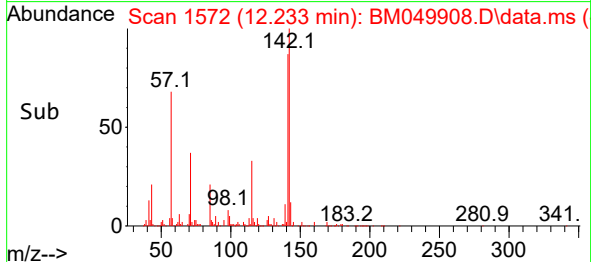
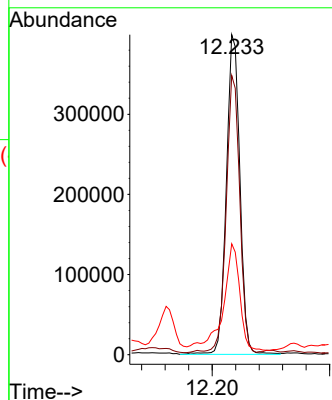
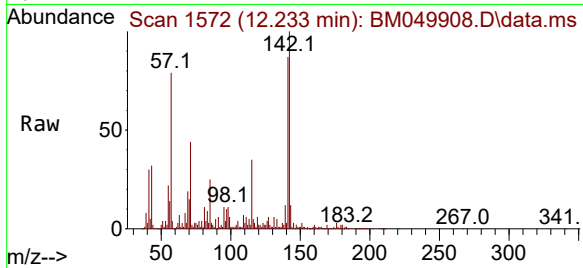




#37  
2-Methylnaphthalene  
Concen: 14.748 ng  
RT: 12.233 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

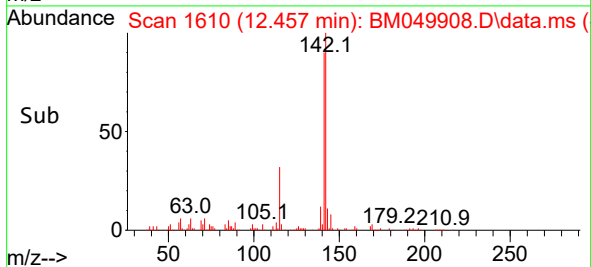
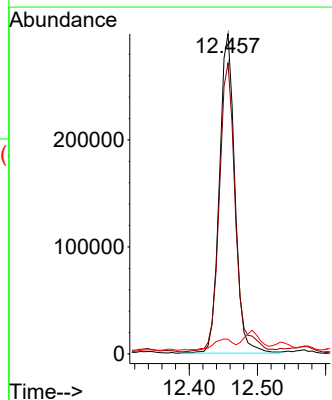
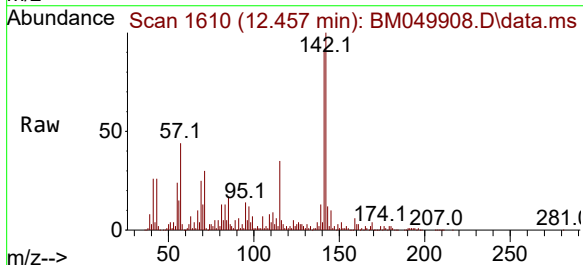
Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

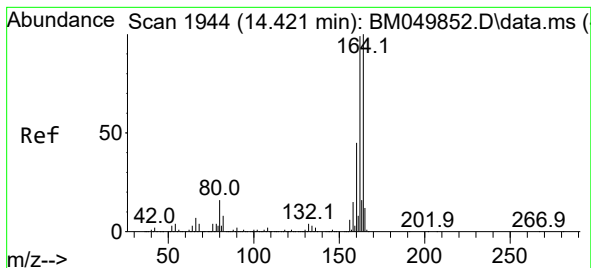
Tgt Ion:142 Resp: 638987  
Ion Ratio Lower Upper  
142 100  
141 87.3 70.2 105.2  
115 34.6 25.4 38.2



#38  
1-Methylnaphthalene  
Concen: 11.180 ng  
RT: 12.457 min Scan# 1610  
Delta R.T. 0.000 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:142 Resp: 471929  
Ion Ratio Lower Upper  
142 100  
141 90.9 72.2 108.2  
116 4.6 2.9 4.3#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.416 min Scan# 1943

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

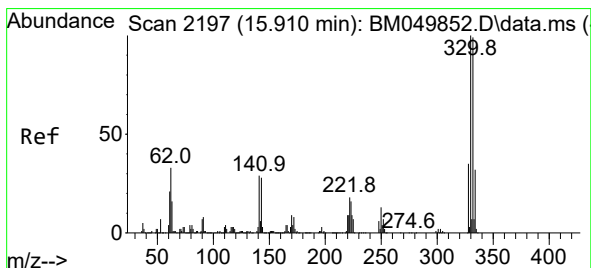
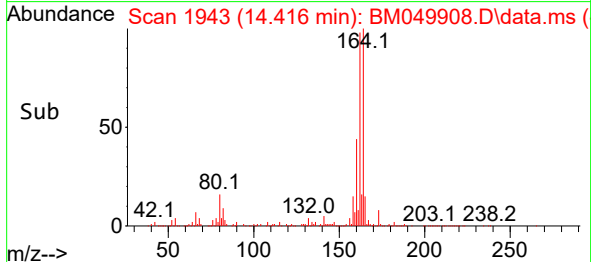
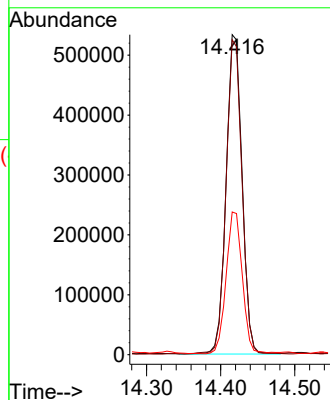
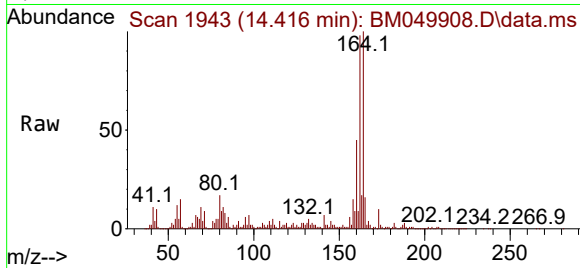
Tgt Ion:164 Resp: 797301

Ion Ratio Lower Upper

164 100

162 98.4 79.4 119.0

160 44.6 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 20.039 ng

RT: 15.910 min Scan# 2197

Delta R.T. 0.000 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

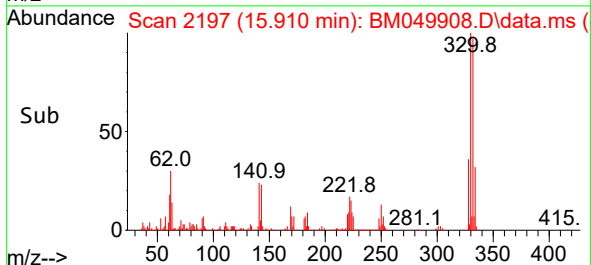
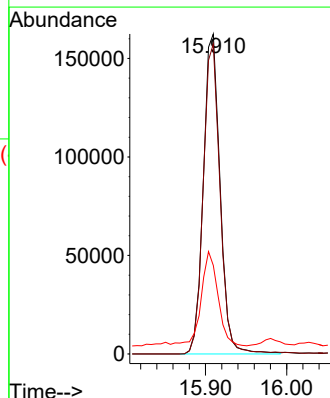
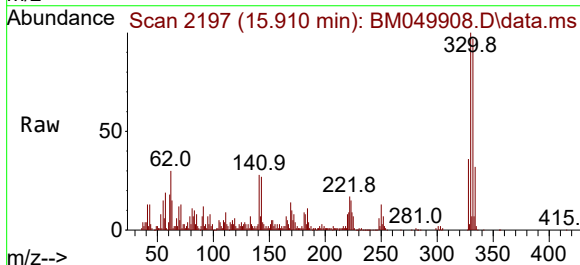
Tgt Ion:330 Resp: 232391

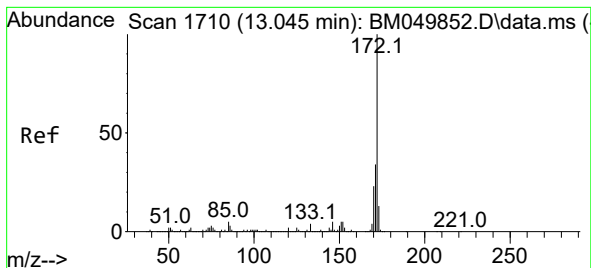
Ion Ratio Lower Upper

330 100

332 96.9 78.0 117.0

141 30.5 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 13.204 ng

RT: 13.039 min Scan# 1710

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

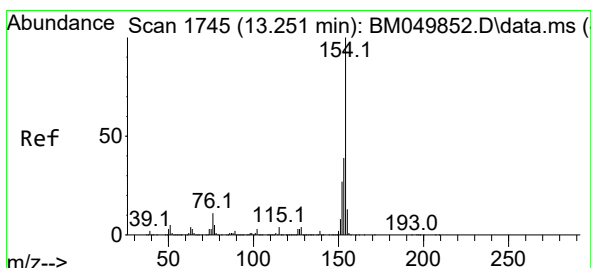
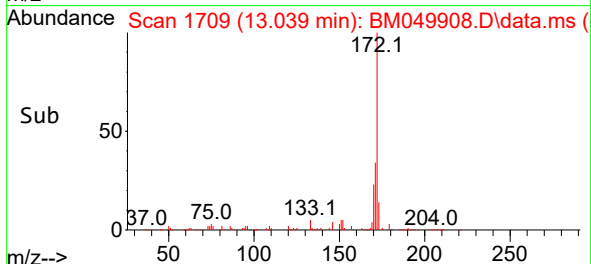
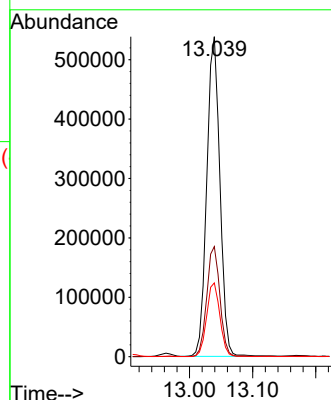
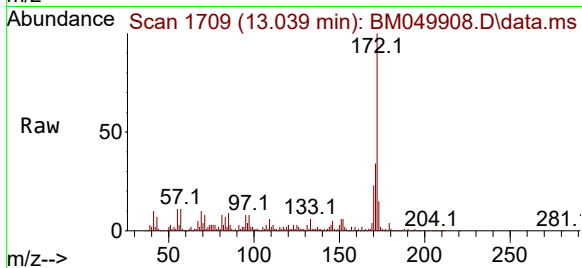
Tgt Ion:172 Resp: 776369

Ion Ratio Lower Upper

172 100

171 34.4 27.4 41.2

170 23.1 18.6 28.0



#46

1,1'-Biphenyl

Concen: 2.645 ng

RT: 13.251 min Scan# 1745

Delta R.T. 0.000 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

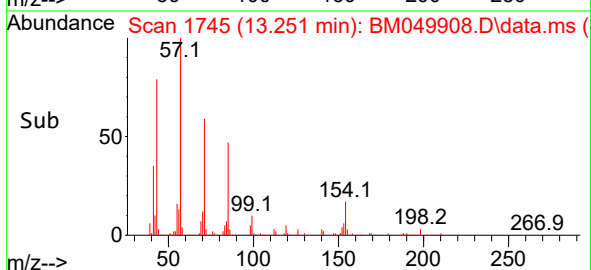
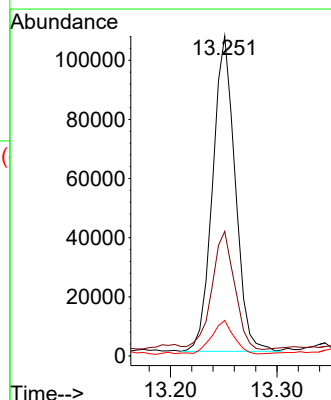
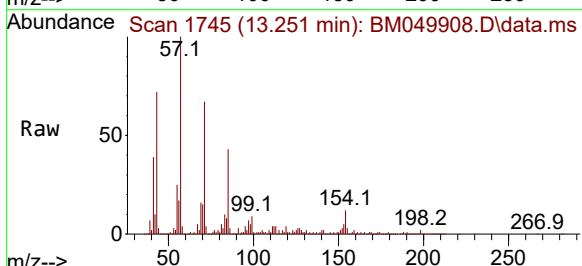
Tgt Ion:154 Resp: 156761

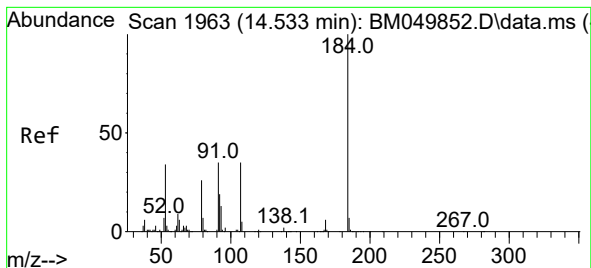
Ion Ratio Lower Upper

154 100

153 38.9 19.3 59.3

76 11.1 0.0 30.7

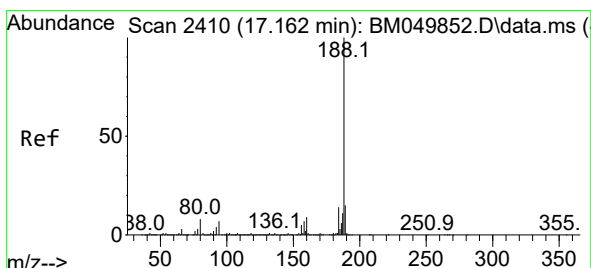
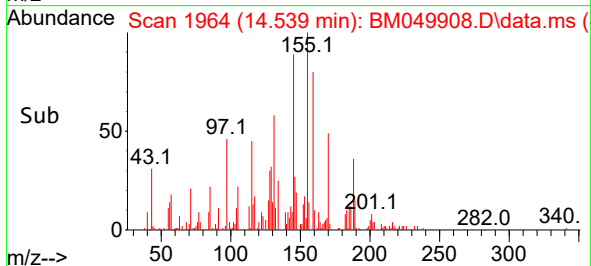
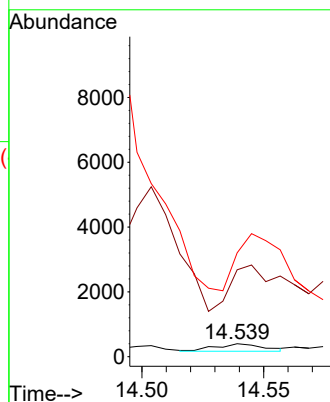
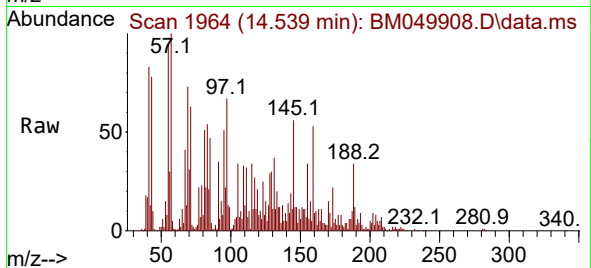




#54  
2,4-Dinitrophenol  
Concen: 7.259 ng  
RT: 14.539 min Scan# 1963  
Delta R.T. 0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

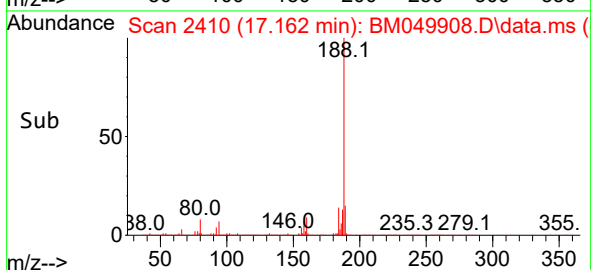
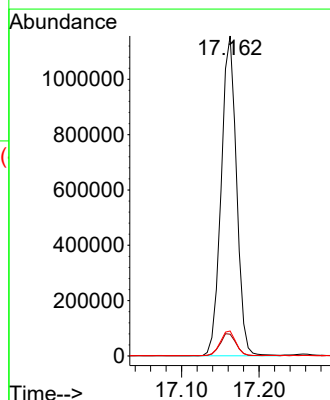
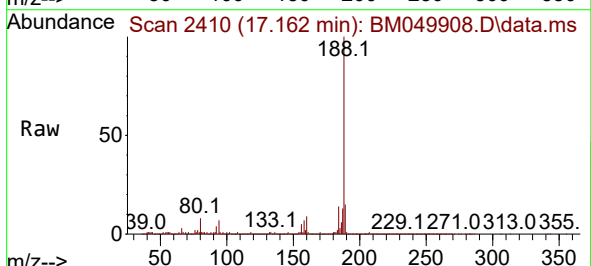
Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

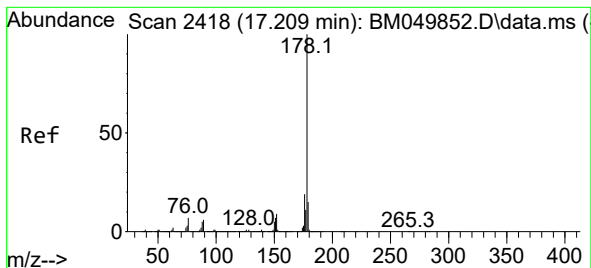
Tgt Ion:184 Resp: 318  
Ion Ratio Lower Upper  
184 100  
63 672.4 38.4 57.6#  
154 803.0 48.1 72.1#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.162 min Scan# 2410  
Delta R.T. 0.000 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:188 Resp: 1590646  
Ion Ratio Lower Upper  
188 100  
94 6.8 5.8 8.6  
80 7.8 6.4 9.6





#71

Phenanthrene

Concen: 3.554 ng

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

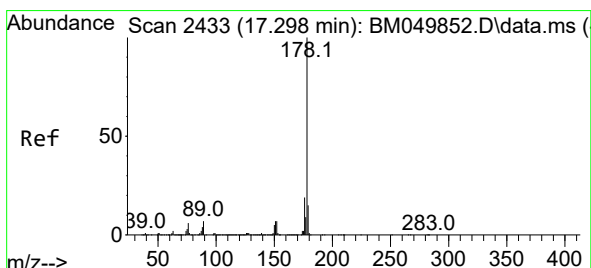
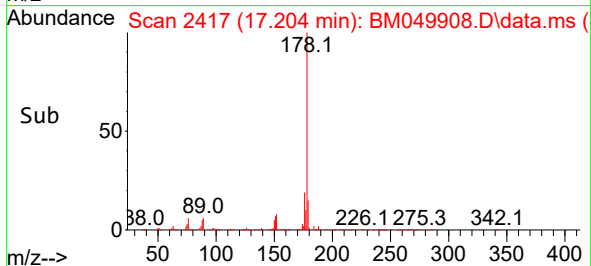
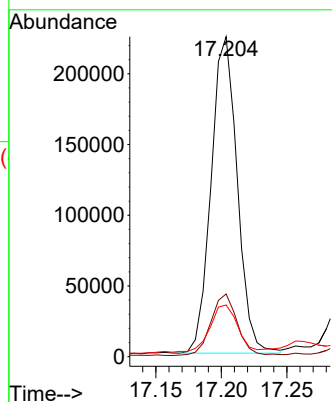
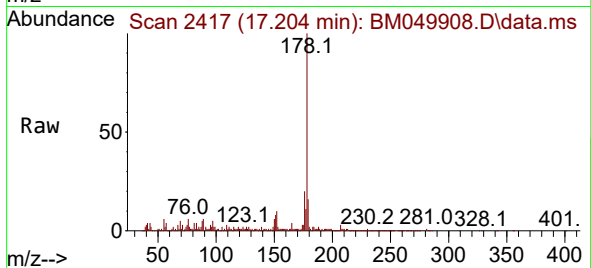
Tgt Ion:178 Resp: 309932

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

179 16.1 12.3 18.5



#72

Anthracene

Concen: 3.606 ng

RT: 17.204 min Scan# 2417

Delta R.T. -0.094 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

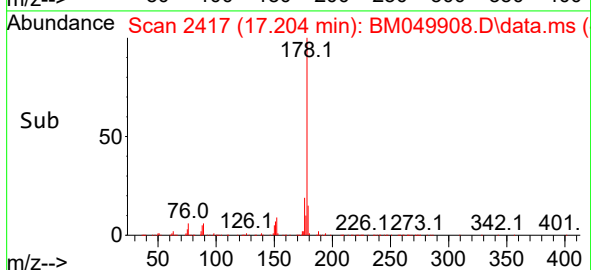
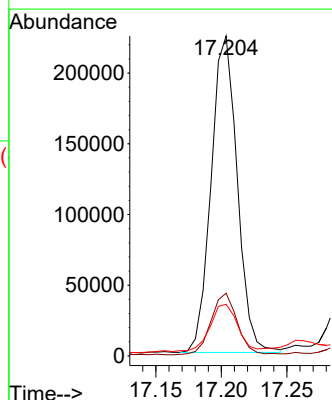
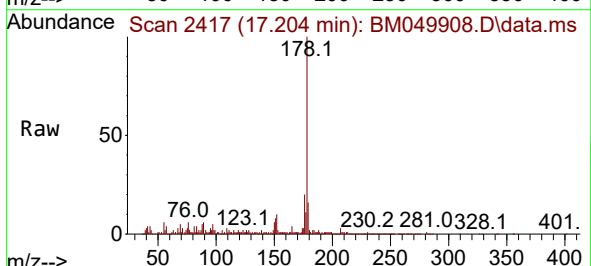
Tgt Ion:178 Resp: 309932

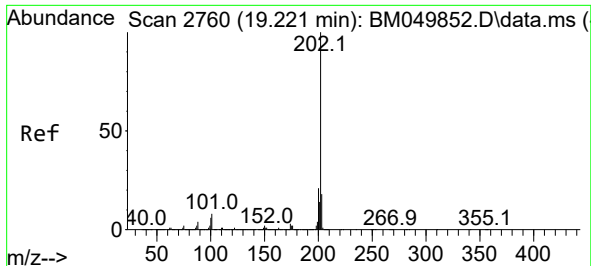
Ion Ratio Lower Upper

178 100

176 19.6 15.1 22.7

179 16.1 12.4 18.6

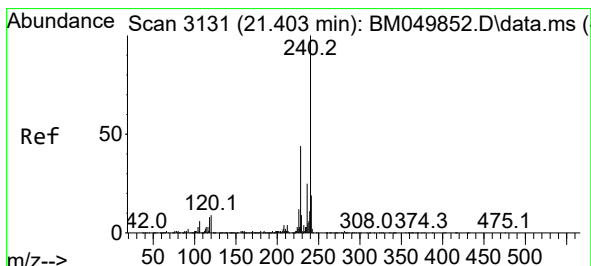
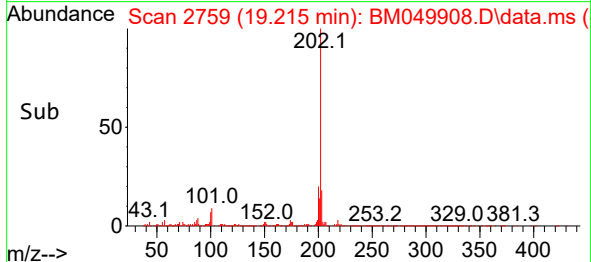
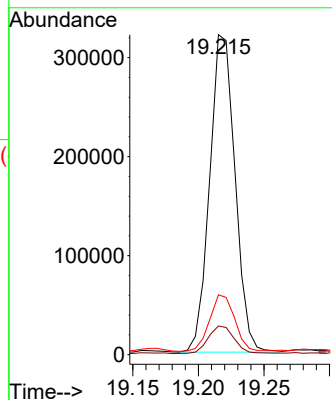
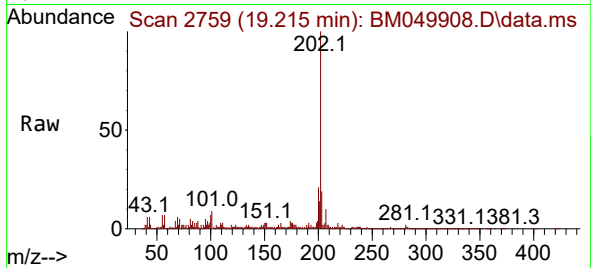




#75  
Fluoranthene  
Concen: 4.029 ng  
RT: 19.215 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

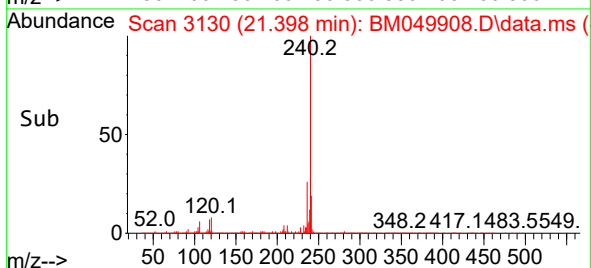
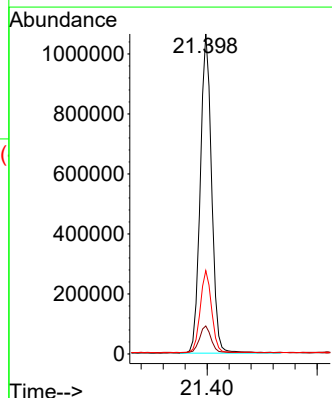
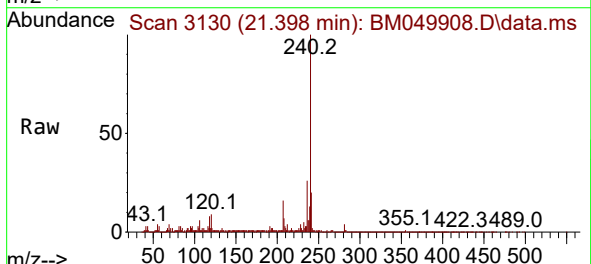
Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

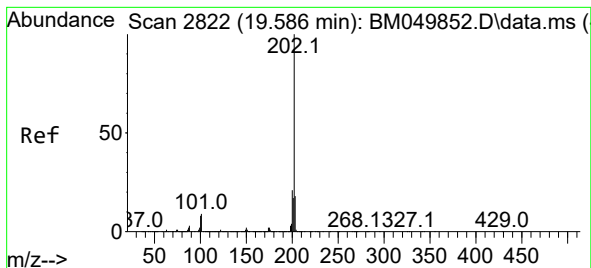
Tgt Ion:202 Resp: 432052  
Ion Ratio Lower Upper  
202 100  
101 9.0 0.0 28.4  
203 18.7 0.0 37.8



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.398 min Scan# 3130  
Delta R.T. -0.006 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:240 Resp: 1525389  
Ion Ratio Lower Upper  
240 100  
120 8.8 6.9 10.3  
236 26.1 20.4 30.6





#78

Pyrene

Concen: 4.263 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

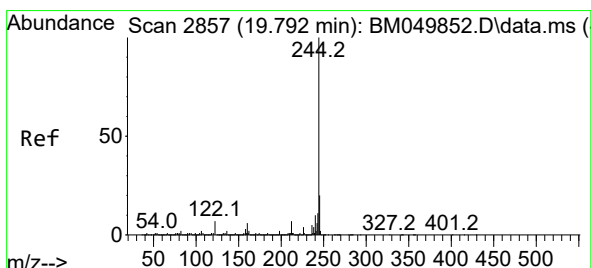
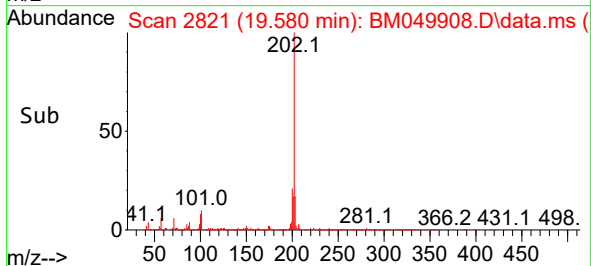
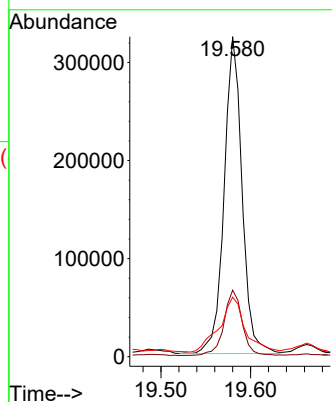
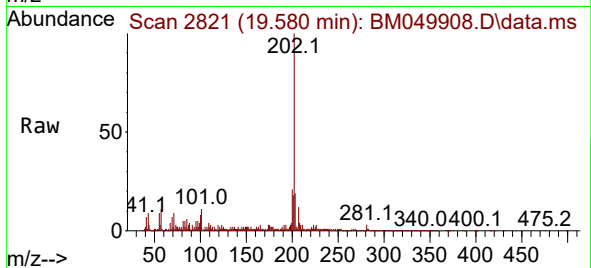
Tgt Ion:202 Resp: 448140

Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 18.6 14.0 21.0



#79

Terphenyl-d14

Concen: 13.094 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

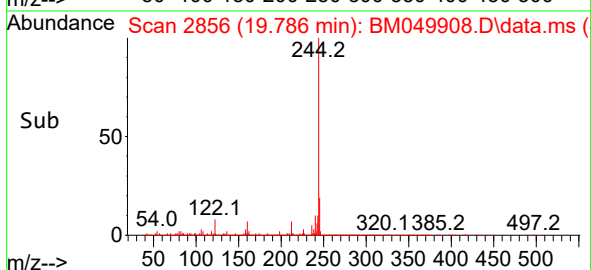
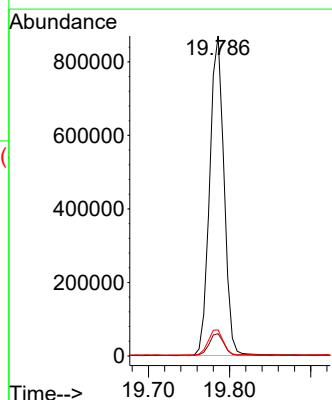
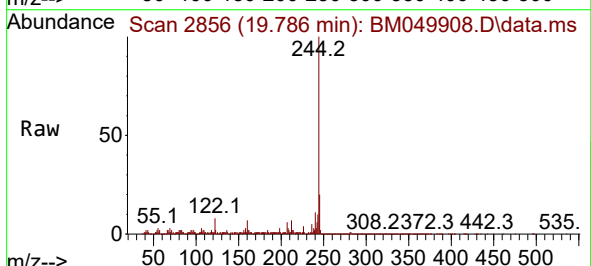
Tgt Ion:244 Resp: 1065789

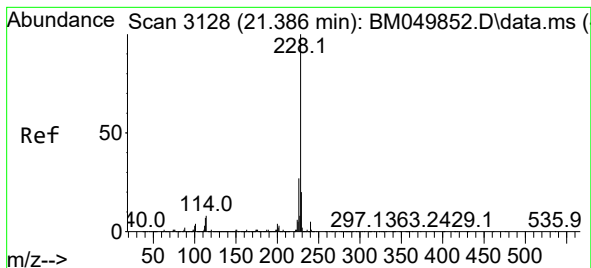
Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 8.1 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 2.242 ng

RT: 21.380 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

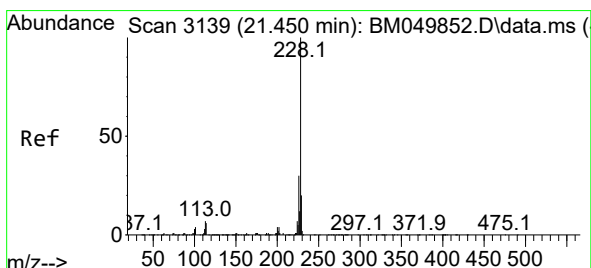
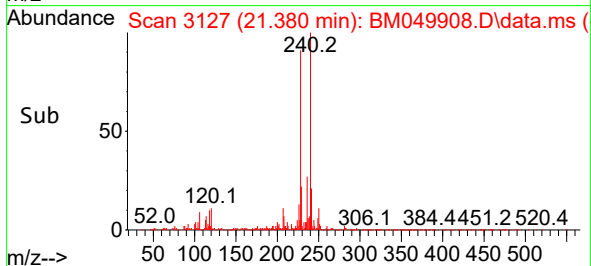
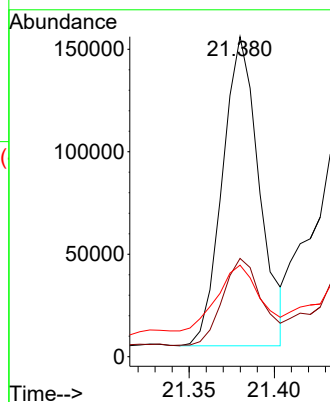
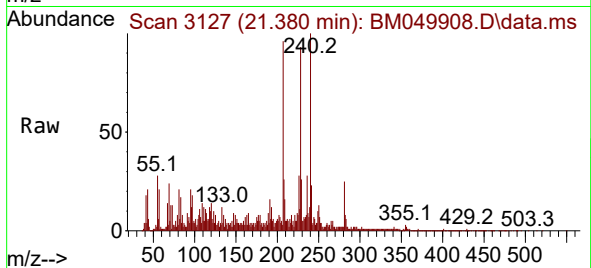
Tgt Ion:228 Resp: 227291

Ion Ratio Lower Upper

228 100

226 30.7 21.8 32.8

229 28.6 15.8 23.8#



#83

Chrysene

Concen: 2.593 ng

RT: 21.439 min Scan# 3137

Delta R.T. -0.012 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

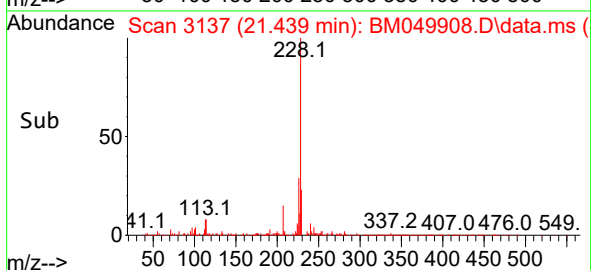
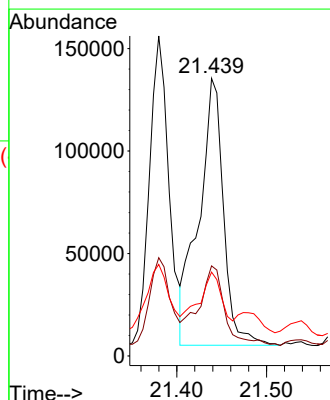
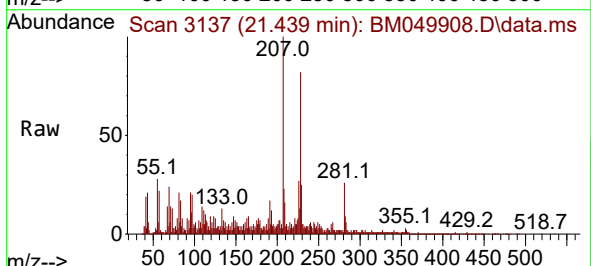
Tgt Ion:228 Resp: 249952

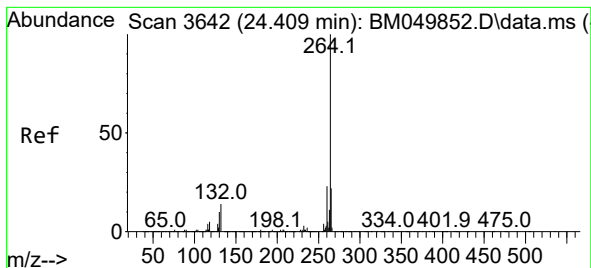
Ion Ratio Lower Upper

228 100

226 32.5 24.1 36.1

229 30.2 15.8 23.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

Instrument :

BNA\_M

ClientSampleId :

TP-7C

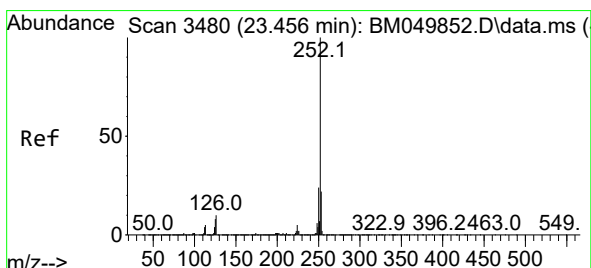
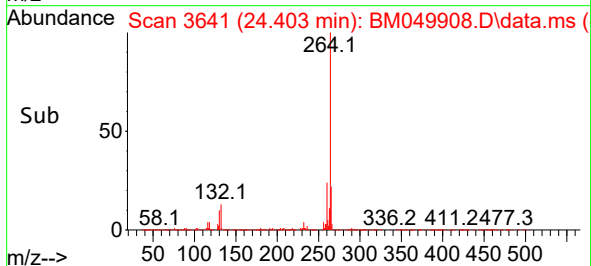
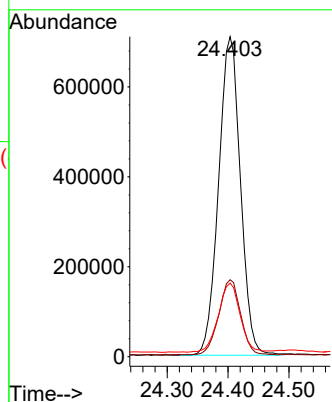
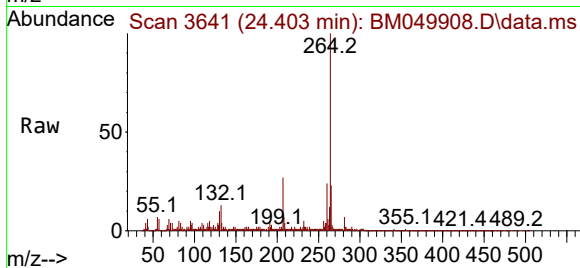
Tgt Ion:264 Resp: 1767718

Ion Ratio Lower Upper

264 100

260 24.0 18.6 28.0

265 23.0 17.8 26.8



#88

Benzo(b)fluoranthene

Concen: 2.881 ng

RT: 23.450 min Scan# 3479

Delta R.T. -0.006 min

Lab File: BM049908.D

Acq: 11 Apr 2025 19:32

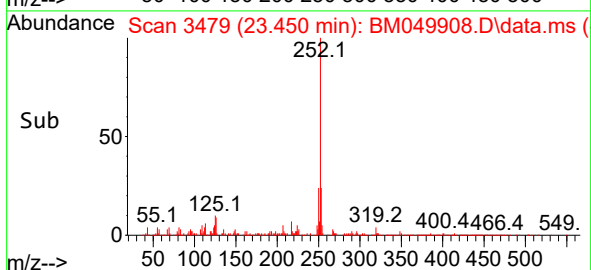
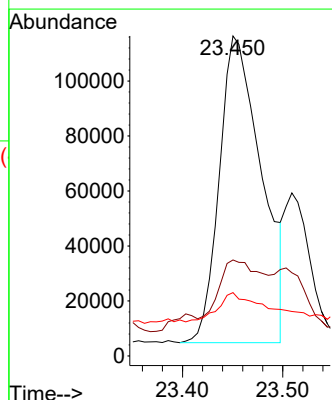
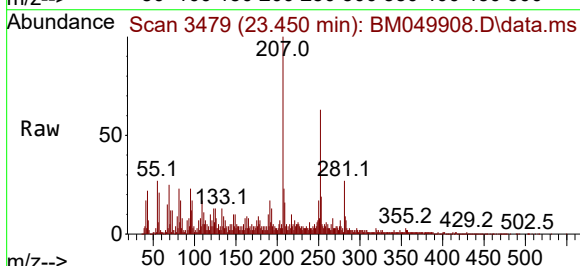
Tgt Ion:252 Resp: 325236

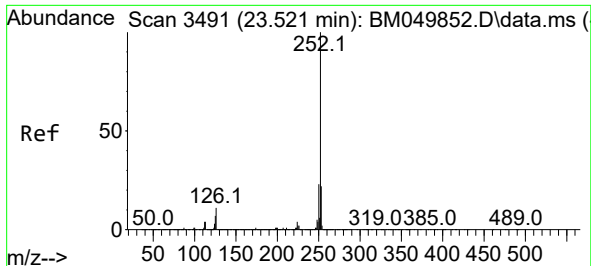
Ion Ratio Lower Upper

252 100

253 30.0 17.5 26.3#

125 19.8 6.2 9.4#

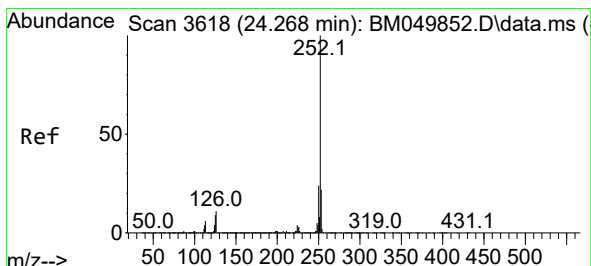
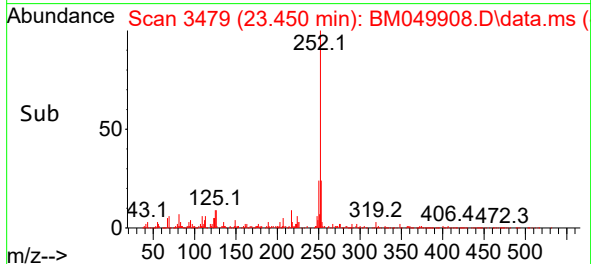
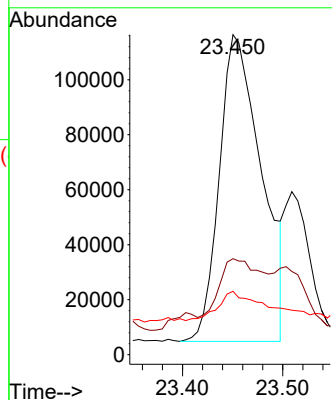
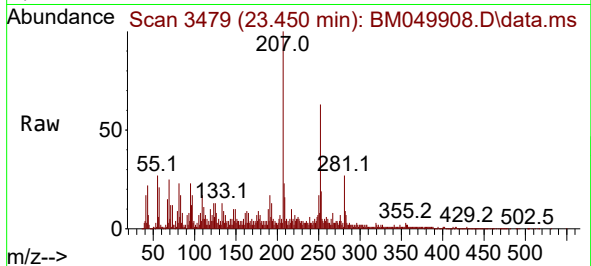




#89  
Benzo(k)fluoranthene  
Concen: 2.973 ng  
RT: 23.450 min Scan# 3491  
Delta R.T. -0.070 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Instrument :  
BNA\_M  
ClientSampleId :  
TP-7C

Tgt Ion:252 Resp: 325236  
Ion Ratio Lower Upper  
252 100  
253 30.0 17.4 26.2#  
125 19.8 5.8 8.8#



#90  
Benzo(a)pyrene  
Concen: 2.445 ng  
RT: 24.256 min Scan# 3616  
Delta R.T. -0.012 min  
Lab File: BM049908.D  
Acq: 11 Apr 2025 19:32

Tgt Ion:252 Resp: 242520  
Ion Ratio Lower Upper  
252 100  
253 30.7 17.8 26.8#  
125 18.8 7.0 10.4#

