

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
 Data File : BM049905.D  
 Acq On : 11 Apr 2025 17:34  
 Operator : RC/JU  
 Sample : Q1756-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 TP-9

Quant Time: Apr 11 18:25:36 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

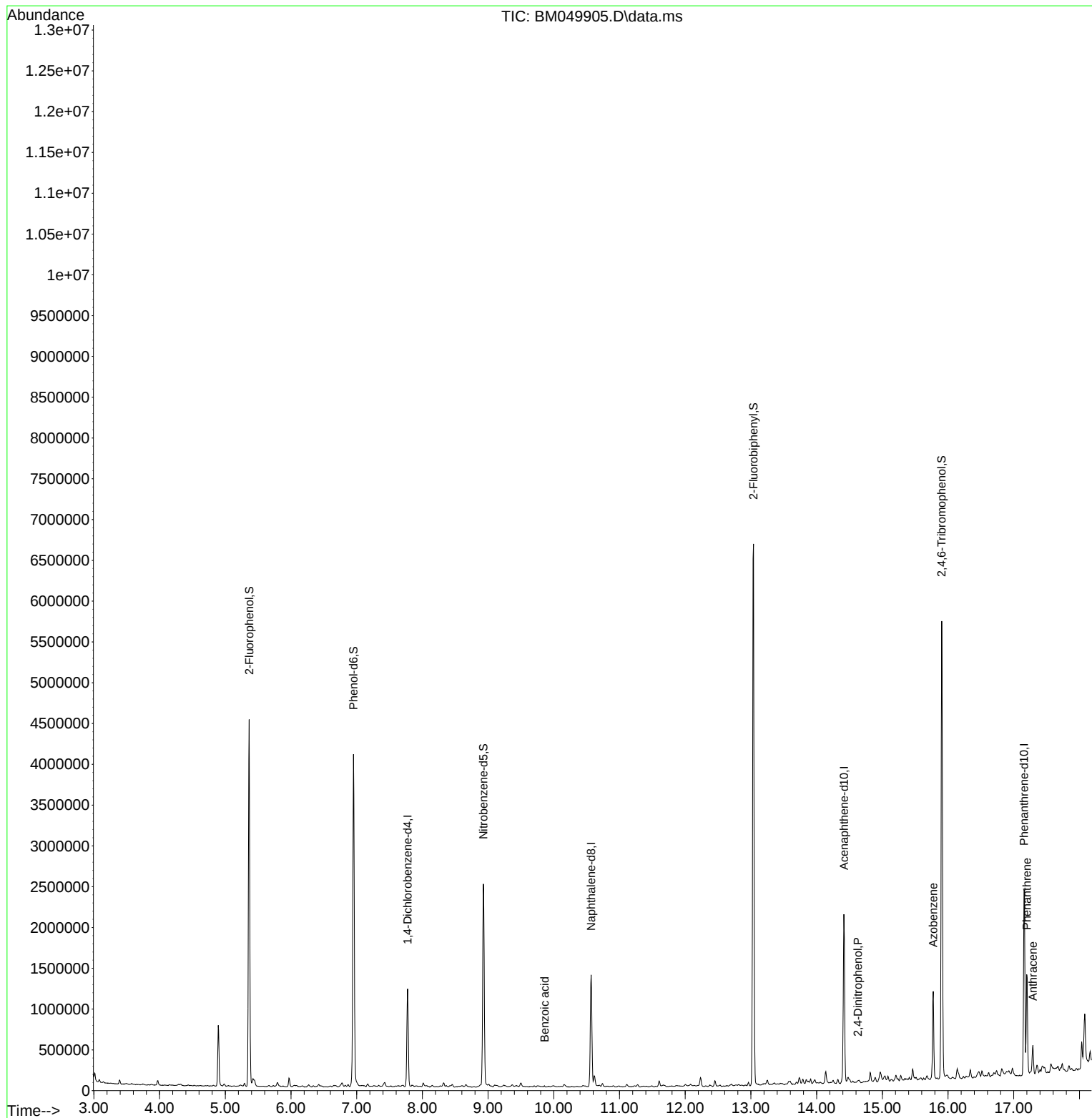
| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.775  | 152  | 341821   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.569 | 136  | 1156923  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.416 | 164  | 739993   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.157 | 188  | 1439481  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.398 | 240  | 1406053  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 24.392 | 264  | 1548926  | 20.000  | ng    | -0.02    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 2005532  | 99.629  | ng    | 0.00     |
| 7) Phenol-d6                | 6.951  | 99   | 2408359  | 96.160  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.928  | 82   | 1456556  | 70.107  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.904 | 330  | 1127825  | 104.783 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.039 | 172  | 3634297  | 66.597  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.786 | 244  | 4882467  | 65.076  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 32) Benzoic acid            | 9.863  | 122  | 451      | 8.563   | ng    | # 1      |
| 54) 2,4-Dinitrophenol       | 14.627 | 184  | 62       | 7.232   | ng    | # 1      |
| 63) Azobenzene              | 15.774 | 77   | 276797   | 6.458   | ng    | # 1      |
| 71) Phenanthrene            | 17.198 | 178  | 771111   | 9.771   | ng    | 100      |
| 72) Anthracene              | 17.292 | 178  | 217393   | 2.795   | ng    | 96       |
| 75) Fluoranthene            | 19.215 | 202  | 1053653  | 10.859  | ng    | 99       |
| 78) Pyrene                  | 19.580 | 202  | 1138502  | 11.749  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.380 | 228  | 708816   | 7.585   | ng    | 93       |
| 83) Chrysene                | 21.380 | 228  | 708816   | 7.979   | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 27.762 | 276  | 549826   | 4.762   | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 23.445 | 252  | 934895   | 9.451   | ng    | 98       |
| 89) Benzo(k)fluoranthene    | 23.445 | 252  | 934895   | 9.752   | ng    | 97       |
| 90) Benzo(a)pyrene          | 24.250 | 252  | 767007   | 8.824   | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 28.809 | 276  | 542765   | 5.585   | ng    | 96       |
| -----                       |        |      |          |         |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041125\  
Data File : BM049905.D  
Acq On : 11 Apr 2025 17:34  
Operator : RC/JU  
Sample : Q1756-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

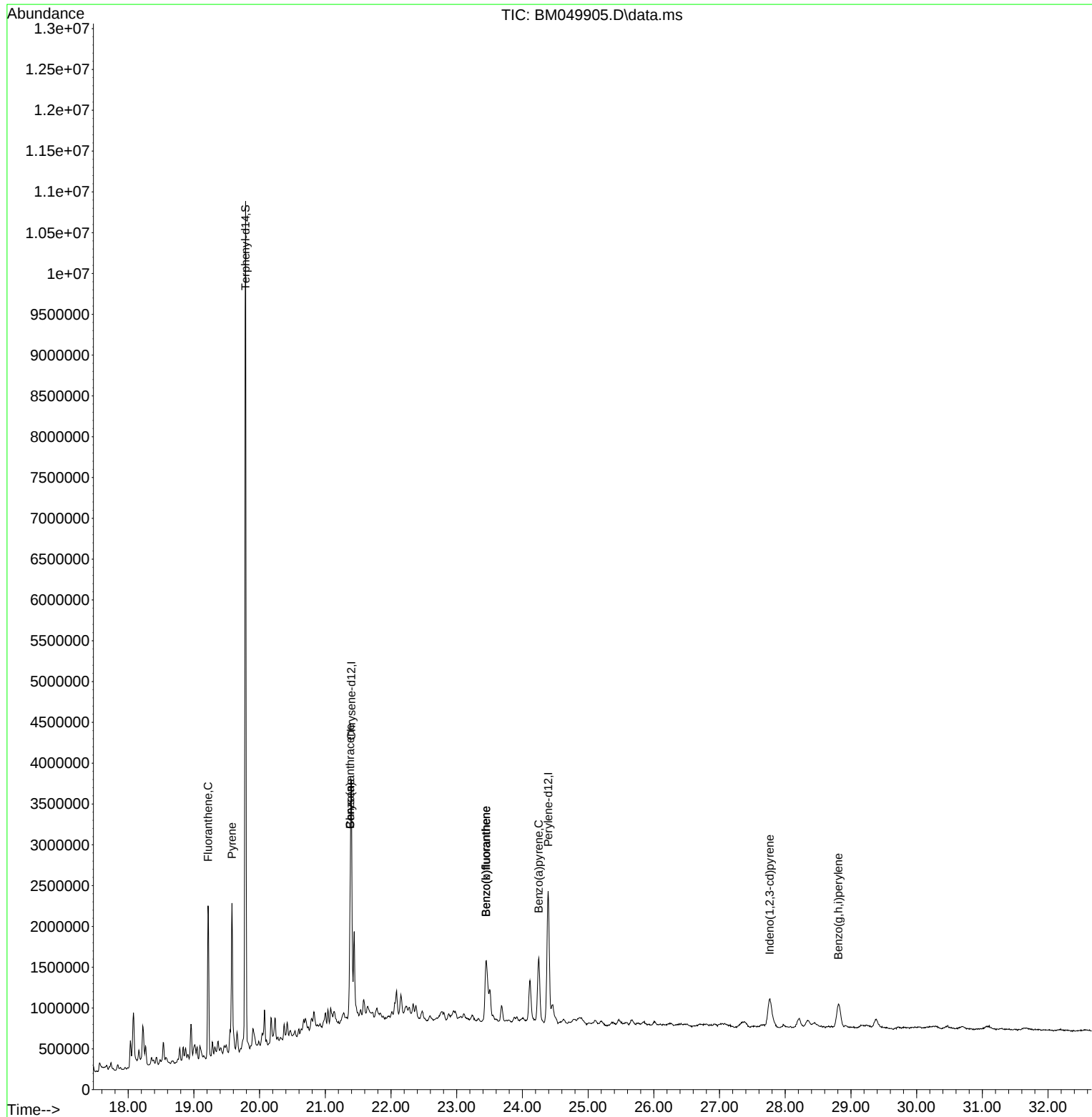
Quant Time: Apr 11 18:25:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040825.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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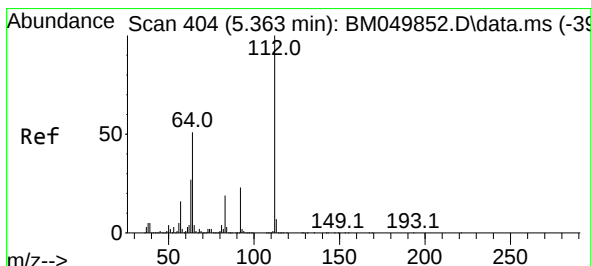
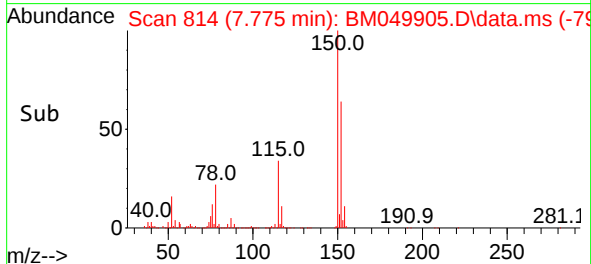
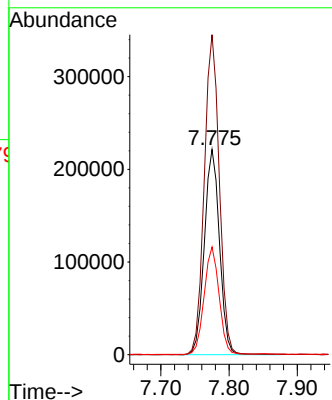
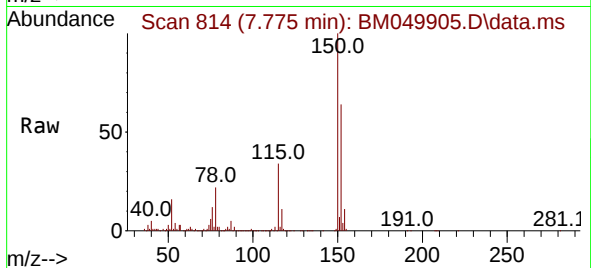




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.775 min Scan# 815  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

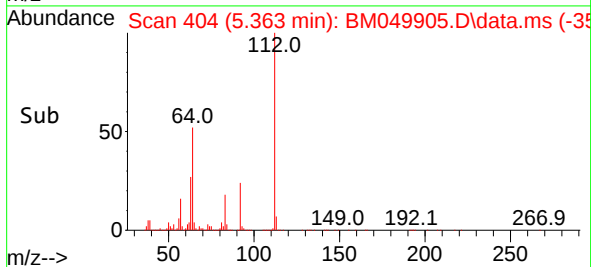
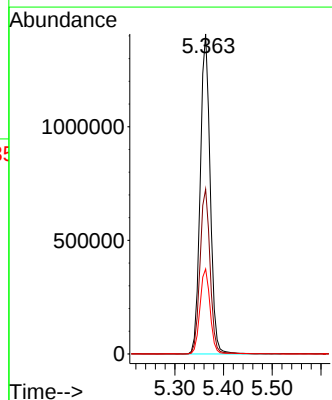
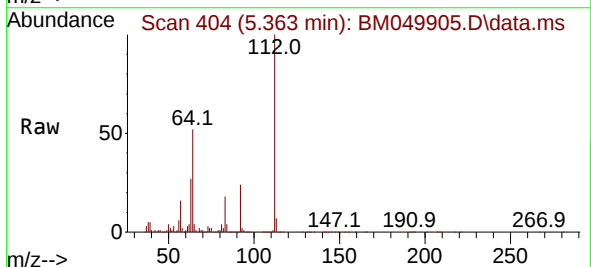
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

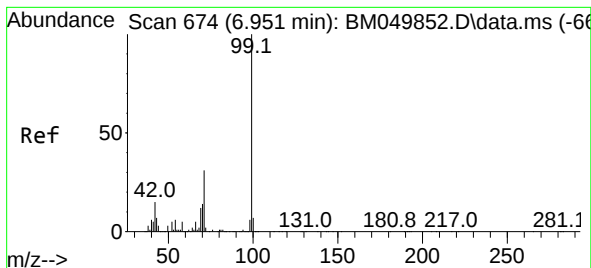
Tgt Ion:152 Resp: 341821  
Ion Ratio Lower Upper  
152 100  
150 155.9 124.3 186.5  
115 52.5 41.1 61.7



#5  
2-Fluorophenol  
Concen: 99.629 ng  
RT: 5.363 min Scan# 404  
Delta R.T. 0.000 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Tgt Ion:112 Resp: 2005532  
Ion Ratio Lower Upper  
112 100  
64 51.5 41.0 61.6  
63 26.6 21.5 32.3





#7

Phenol-d6

Concen: 96.160 ng

RT: 6.951 min Scan# 61

Delta R.T. 0.000 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

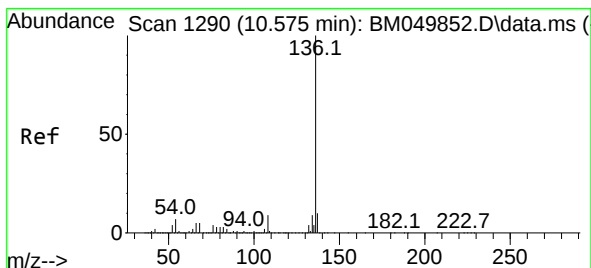
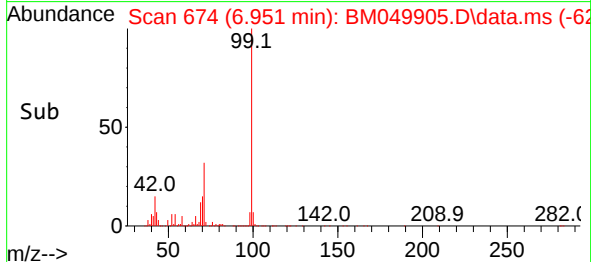
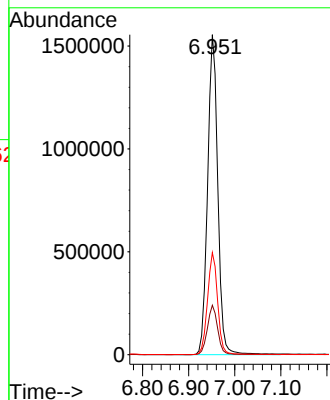
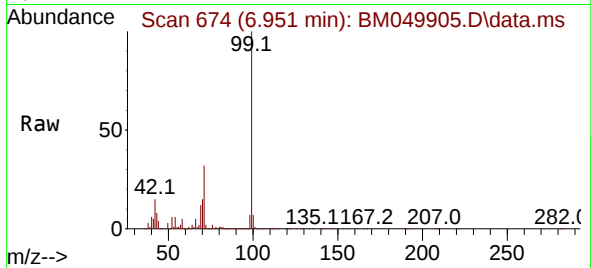
BNA\_M

ClientSampleId :

TP-9

Tgt Ion: 99 Resp: 2408359

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 15.5  | 12.1  | 18.1  |
| 71  | 31.9  | 24.9  | 37.3  |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.569 min Scan# 1289

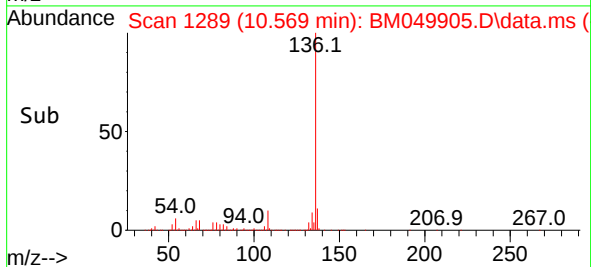
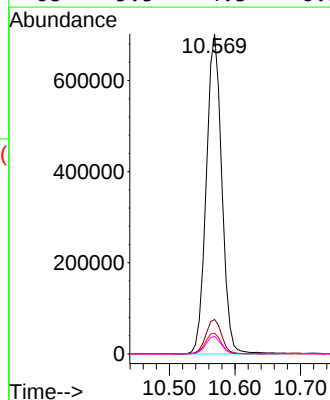
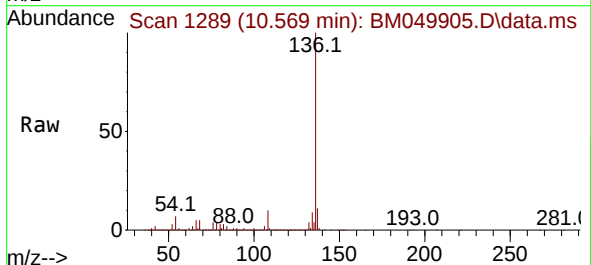
Delta R.T. -0.006 min

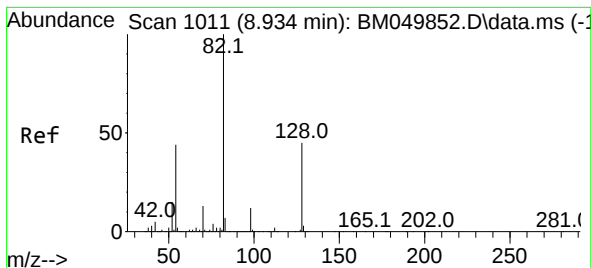
Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Tgt Ion: 136 Resp: 1156923

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.4   | 12.6  |
| 54  | 6.5   | 5.3   | 7.9   |
| 68  | 5.5   | 4.3   | 6.5   |

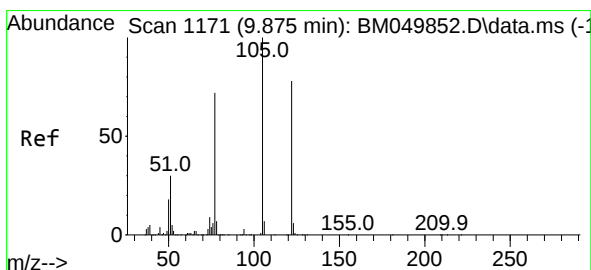
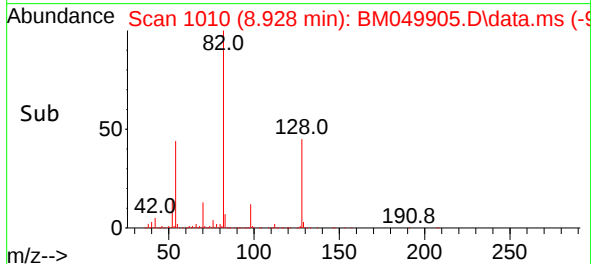
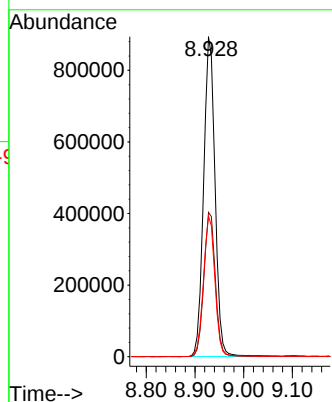
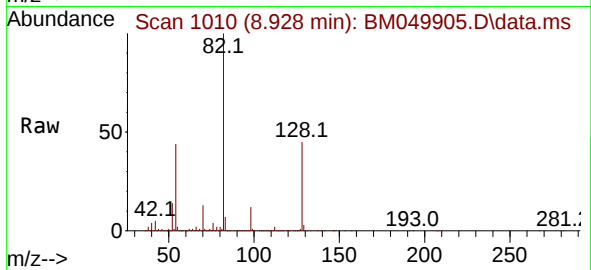




#23  
Nitrobenzene-d5  
Concen: 70.107 ng  
RT: 8.928 min Scan# 1169  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

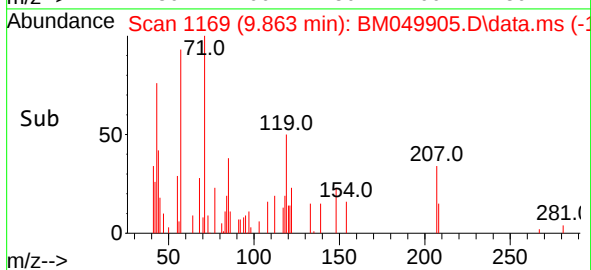
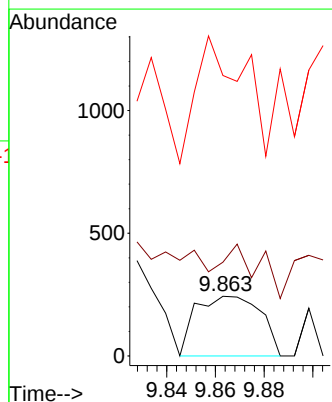
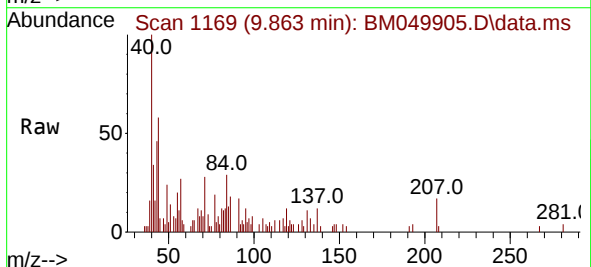
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

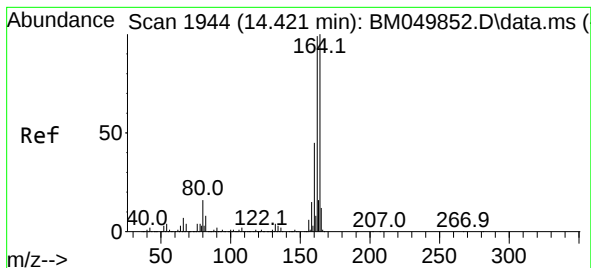
Tgt Ion: 82 Resp: 1456556  
Ion Ratio Lower Upper  
82 100  
128 45.1 36.2 54.2  
54 43.9 35.0 52.6



#32  
Benzoic acid  
Concen: 8.563 ng  
RT: 9.863 min Scan# 1169  
Delta R.T. -0.012 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Tgt Ion:122 Resp: 451  
Ion Ratio Lower Upper  
122 100  
105 157.2 103.8 143.8#  
77 470.4 70.7 110.7#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.416 min Scan# 1943

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

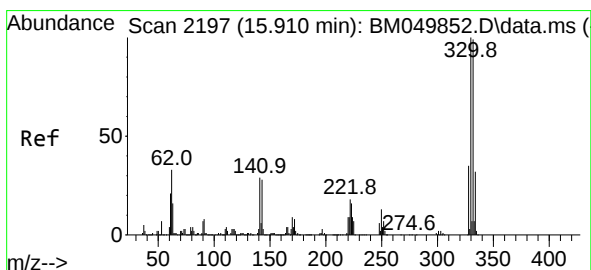
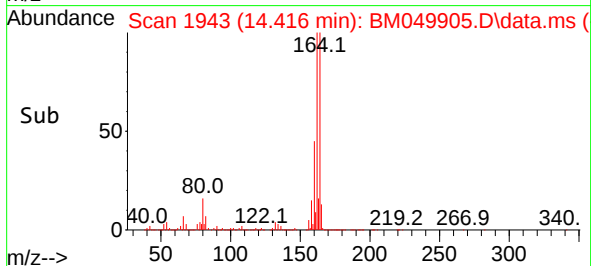
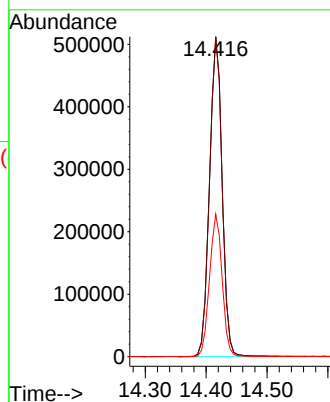
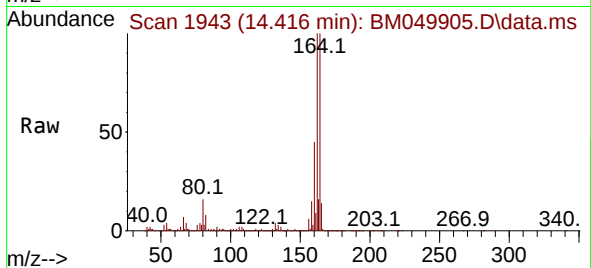
Tgt Ion:164 Resp: 739993

Ion Ratio Lower Upper

164 100

162 99.8 79.4 119.0

160 44.5 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 104.783 ng

RT: 15.904 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

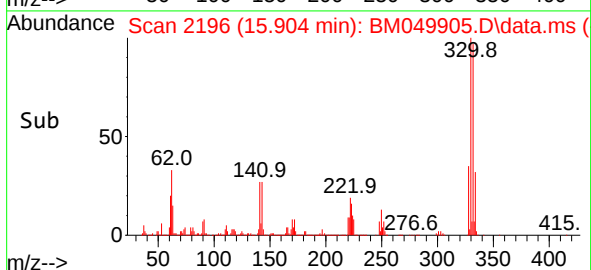
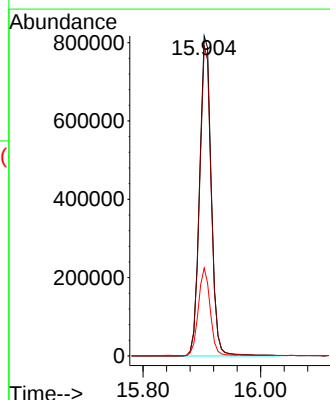
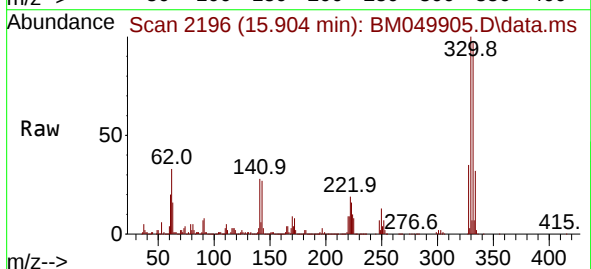
Tgt Ion:330 Resp: 1127825

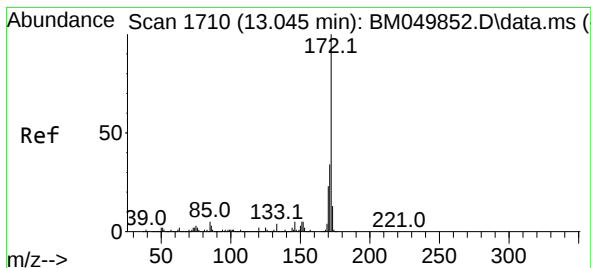
Ion Ratio Lower Upper

330 100

332 96.4 78.0 117.0

141 27.8 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 66.597 ng

RT: 13.039 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

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ClientSampleId :

TP-9

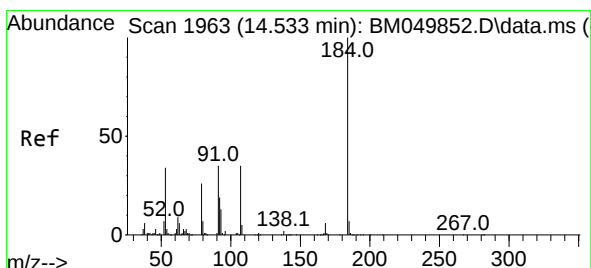
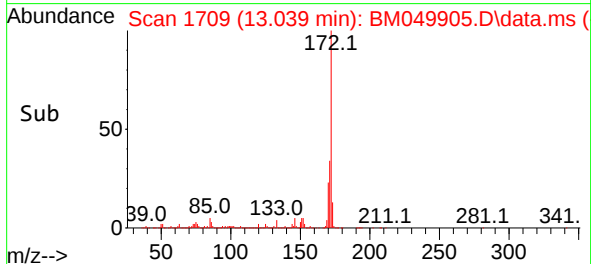
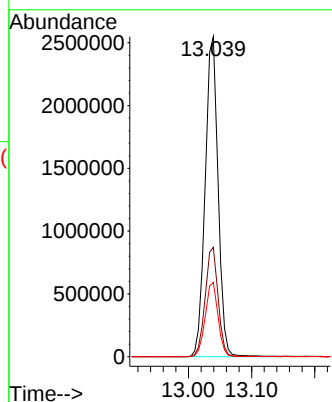
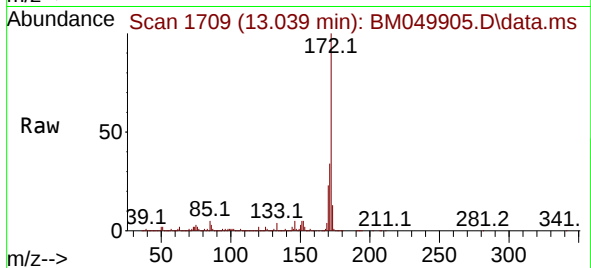
Tgt Ion:172 Resp: 3634297

Ion Ratio Lower Upper

172 100

171 34.2 27.4 41.2

170 23.3 18.6 28.0



#54

2,4-Dinitrophenol

Concen: 7.232 ng

RT: 14.627 min Scan# 1979

Delta R.T. 0.094 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

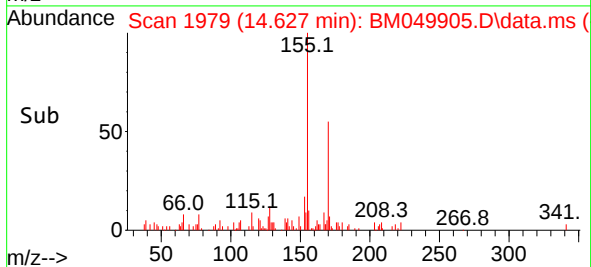
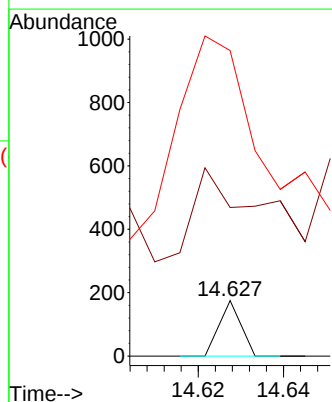
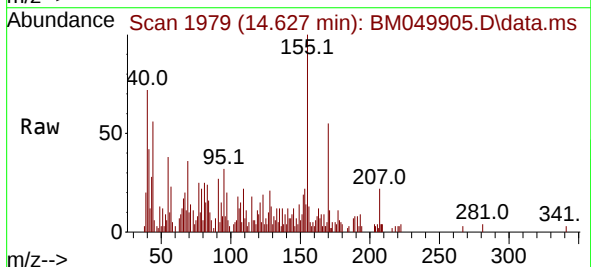
Tgt Ion:184 Resp: 62

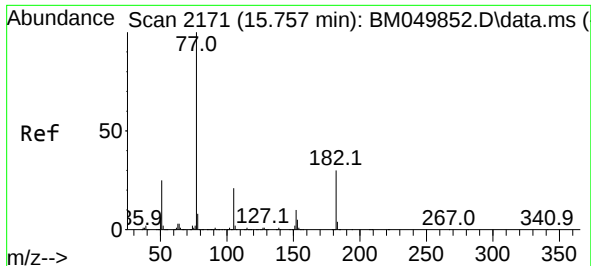
Ion Ratio Lower Upper

184 100

63 268.0 38.4 57.6#

154 550.9 48.1 72.1#

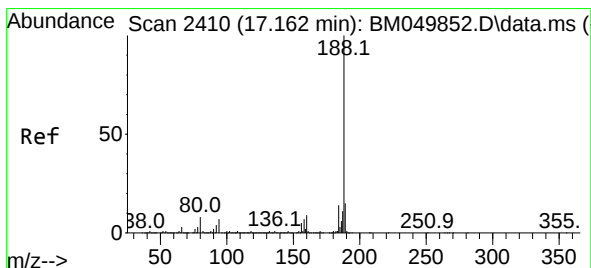
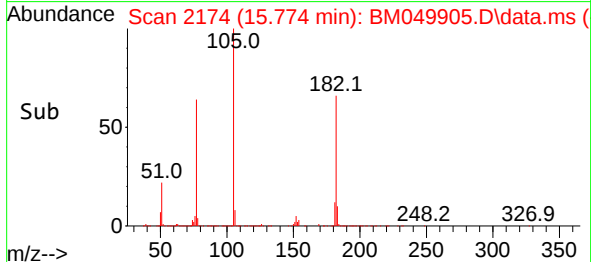
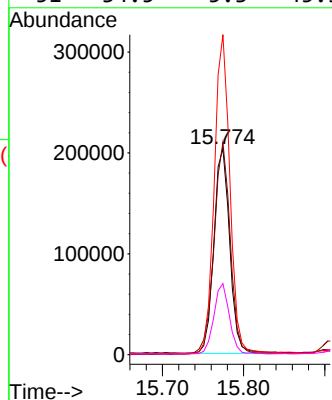
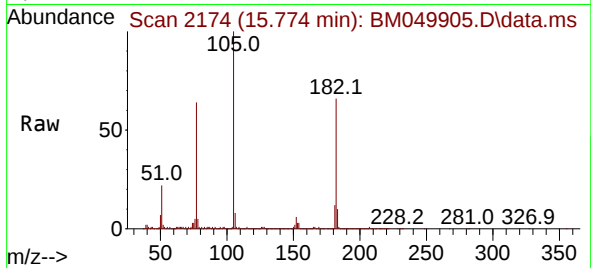




#63  
 Azobenzene  
 Concen: 6.458 ng  
 RT: 15.774 min Scan# 2171  
 Delta R.T. 0.018 min  
 Lab File: BM049905.D  
 Acq: 11 Apr 2025 17:34

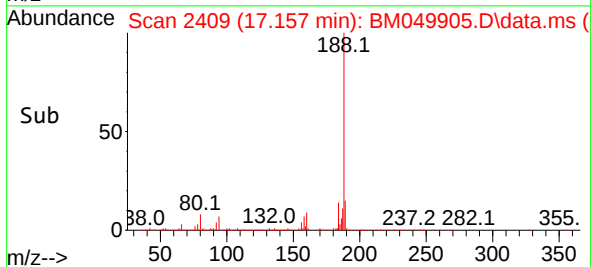
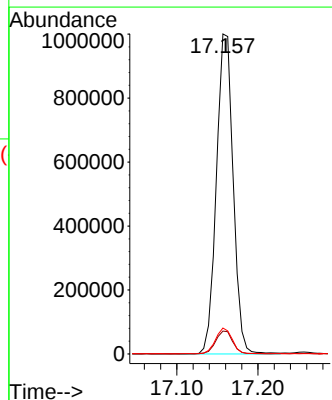
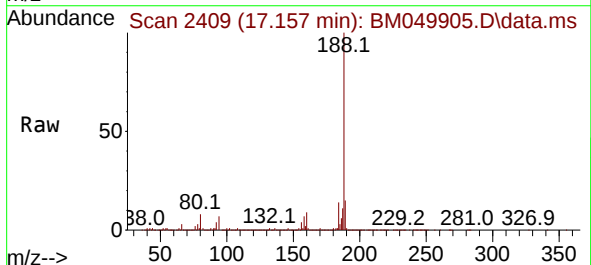
Instrument :  
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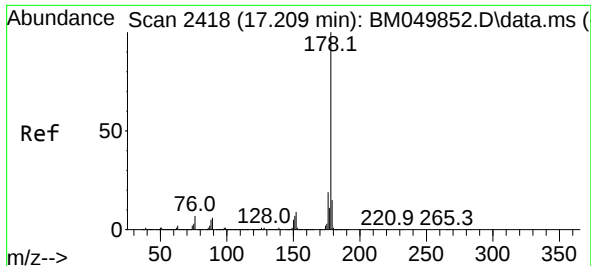
Tgt Ion: 77 Resp: 276797  
 Ion Ratio Lower Upper  
 77 100  
 182 103.0 10.4 50.4#  
 105 155.2 1.5 41.5#  
 51 34.5 5.3 45.3



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.157 min Scan# 2409  
 Delta R.T. -0.006 min  
 Lab File: BM049905.D  
 Acq: 11 Apr 2025 17:34

Tgt Ion: 188 Resp: 1439481  
 Ion Ratio Lower Upper  
 188 100  
 94 7.2 5.8 8.6  
 80 8.1 6.4 9.6

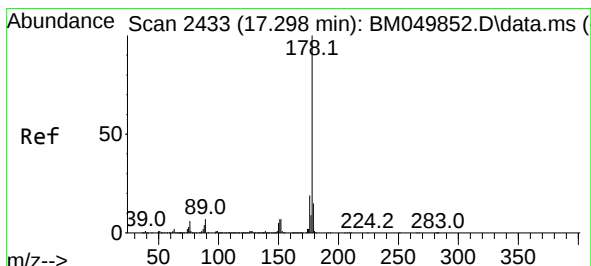
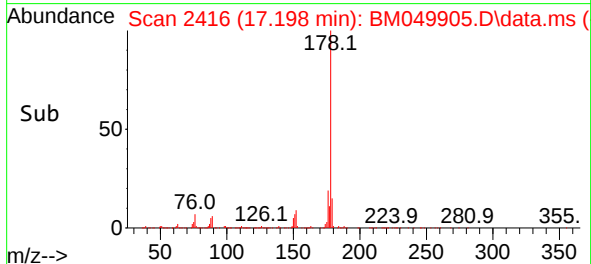
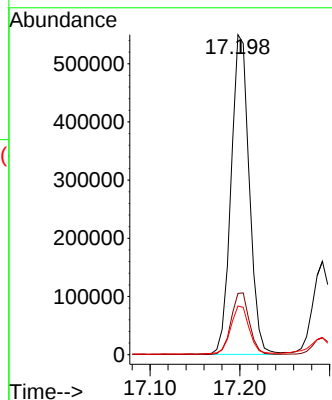
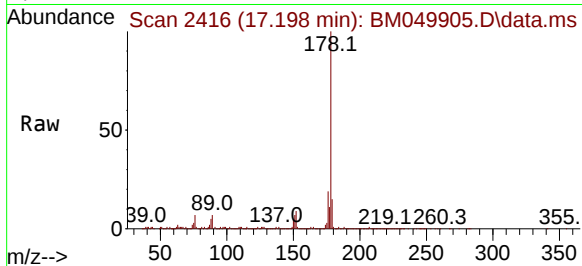




#71  
Phenanthrene  
Concen: 9.771 ng  
RT: 17.198 min Scan# 2418  
Delta R.T. -0.012 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

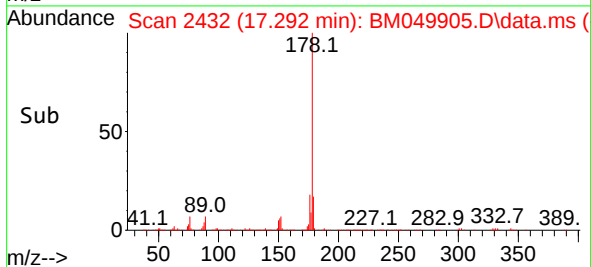
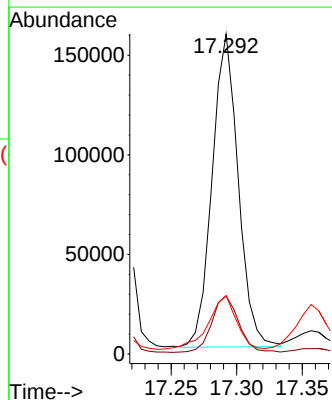
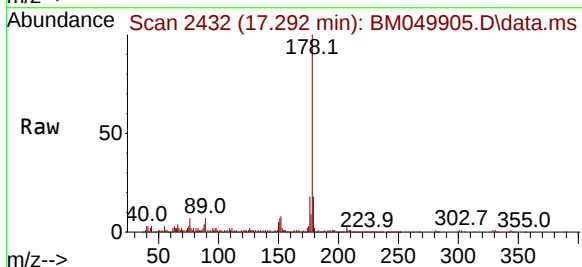
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

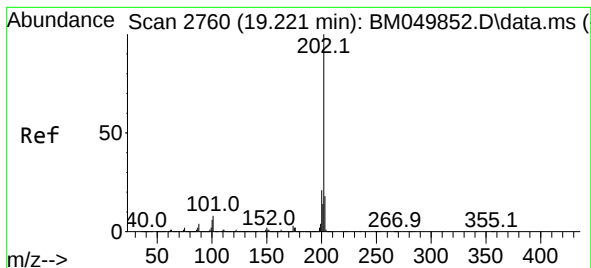
Tgt Ion:178 Resp: 771111  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.2  
179 15.2 12.3 18.5



#72  
Anthracene  
Concen: 2.795 ng  
RT: 17.292 min Scan# 2432  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Tgt Ion:178 Resp: 217393  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.1 22.7  
179 18.3 12.4 18.6





#75

Fluoranthene

Concen: 10.859 ng

RT: 19.215 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

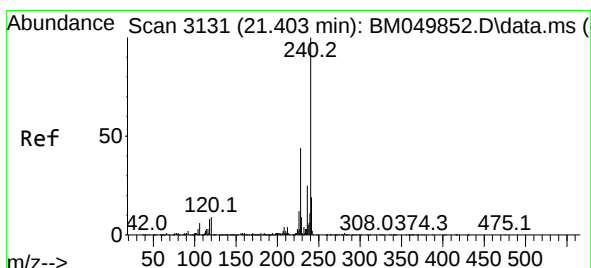
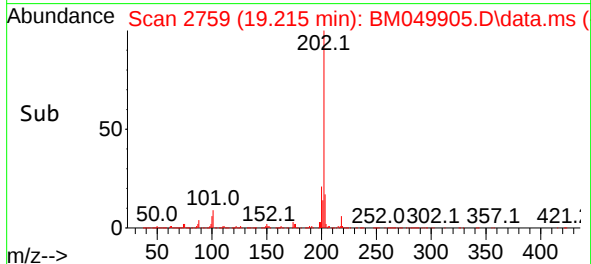
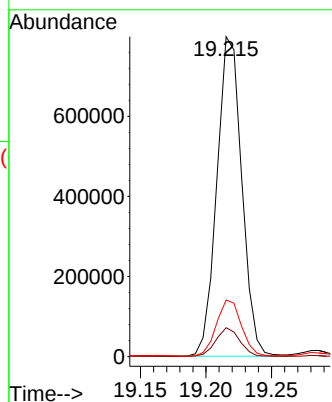
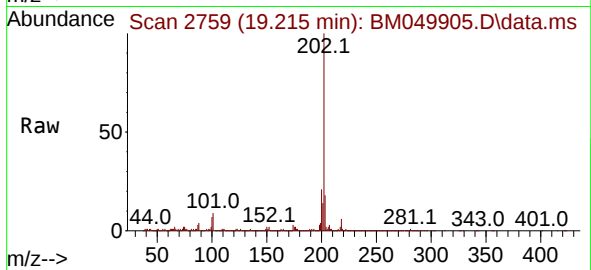
Tgt Ion:202 Resp: 1053653

Ion Ratio Lower Upper

202 100

101 9.0 0.0 28.4

203 17.7 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: BM049905.D

Acq: 11 Apr 2025 17:34

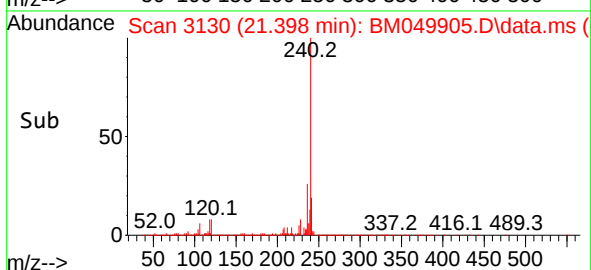
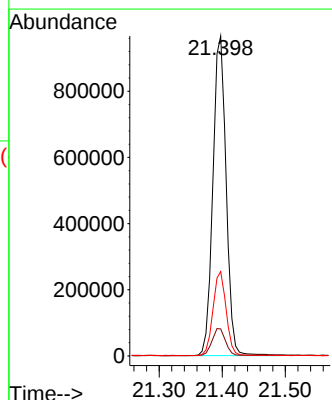
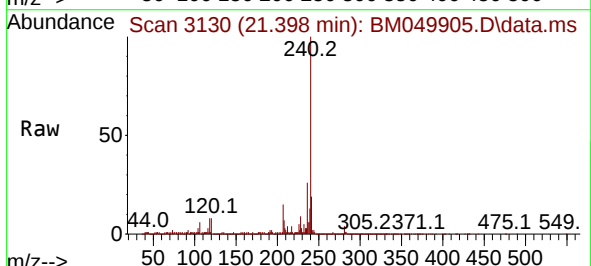
Tgt Ion:240 Resp: 1406053

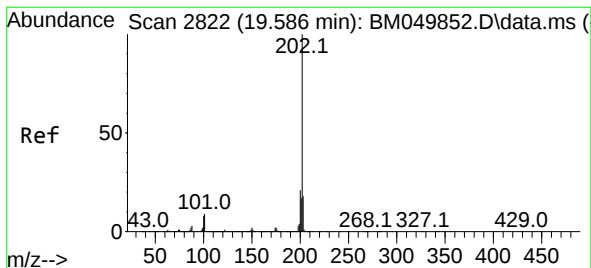
Ion Ratio Lower Upper

240 100

120 8.5 6.9 10.3

236 26.4 20.4 30.6





#78

Pyrene

Concen: 11.749 ng

RT: 19.580 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

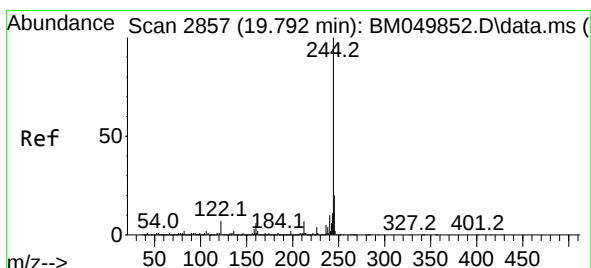
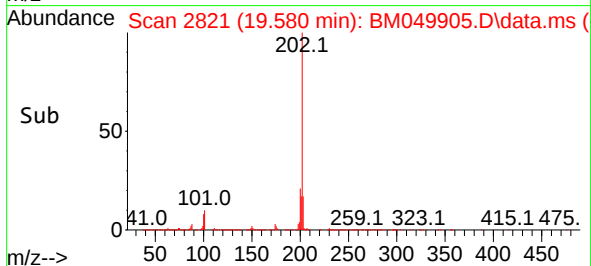
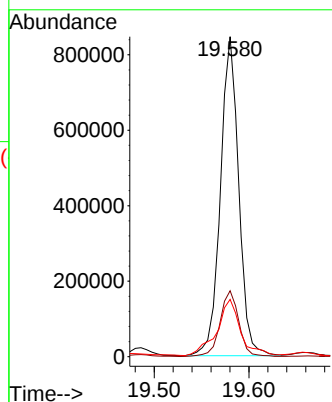
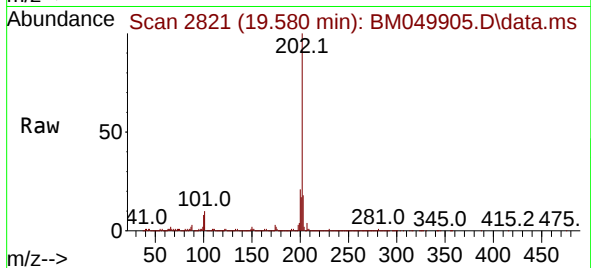
Tgt Ion:202 Resp: 1138502

Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.9 14.0 21.0



#79

Terphenyl-d14

Concen: 65.076 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

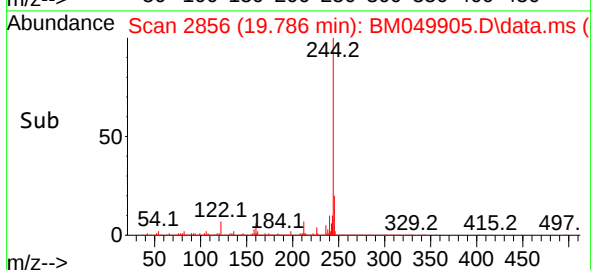
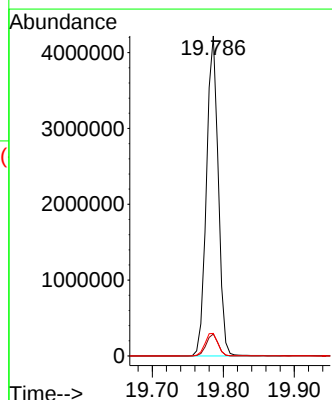
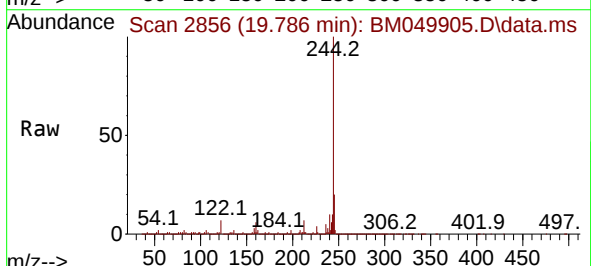
Tgt Ion:244 Resp: 4882467

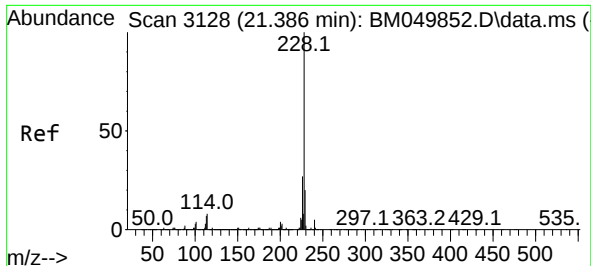
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 7.0 5.4 8.0

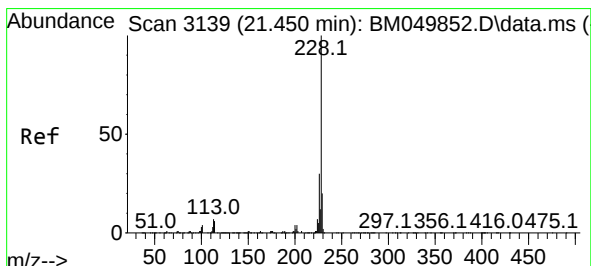
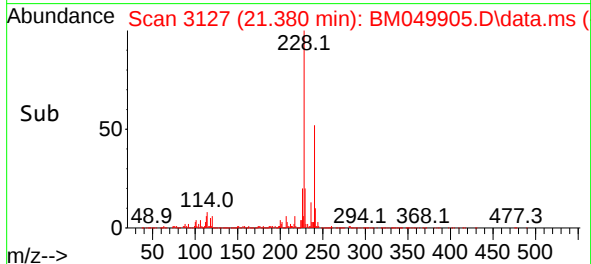
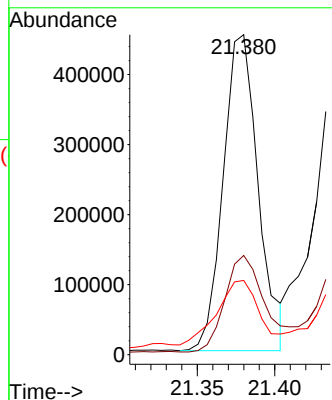
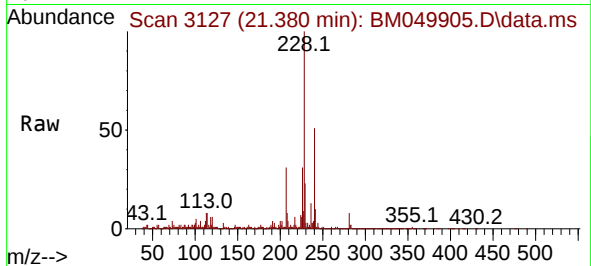




#81  
Benzo(a)anthracene  
Concen: 7.585 ng  
RT: 21.380 min Scan# 3127  
Delta R.T. -0.006 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

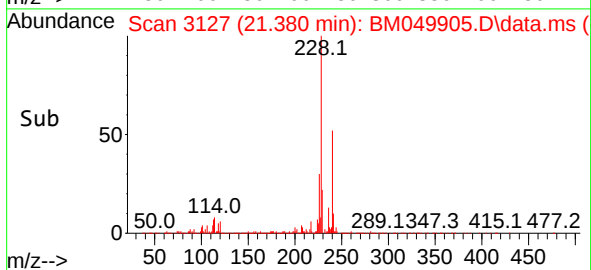
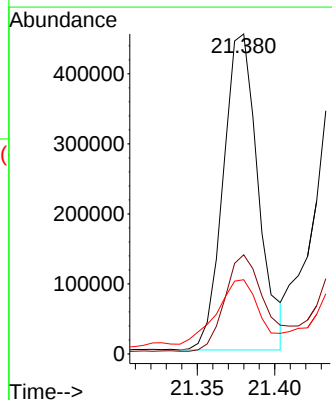
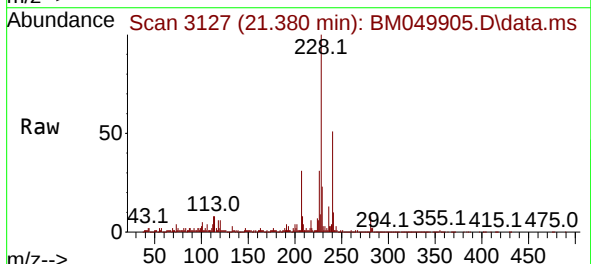
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

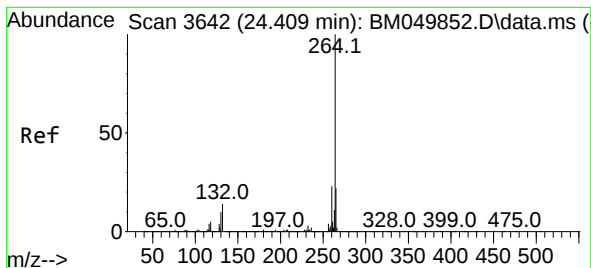
Tgt Ion:228 Resp: 708816  
Ion Ratio Lower Upper  
228 100  
226 31.0 21.8 32.8  
229 23.2 15.8 23.8



#83  
Chrysene  
Concen: 7.979 ng  
RT: 21.380 min Scan# 3127  
Delta R.T. -0.070 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Tgt Ion:228 Resp: 708816  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.1 36.1  
229 23.2 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.392 min Scan# 3

Delta R.T. -0.017 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

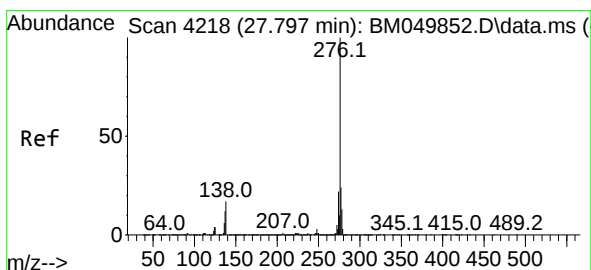
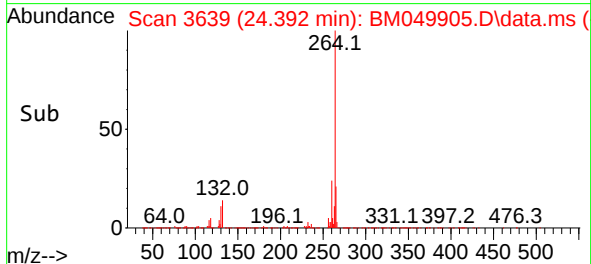
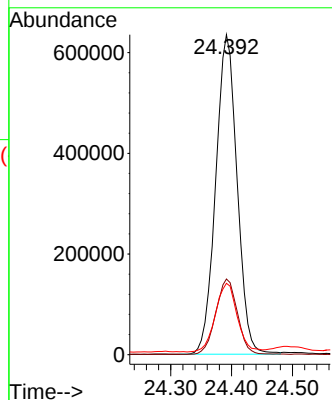
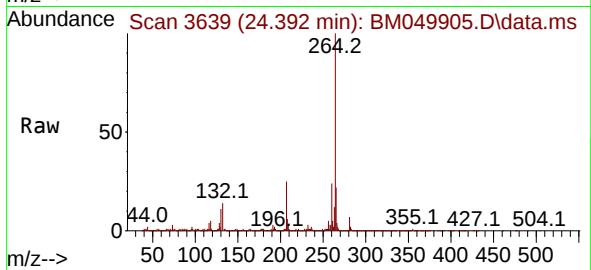
Tgt Ion:264 Resp: 1548926

Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 22.3 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.762 ng

RT: 27.762 min Scan# 4212

Delta R.T. -0.035 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

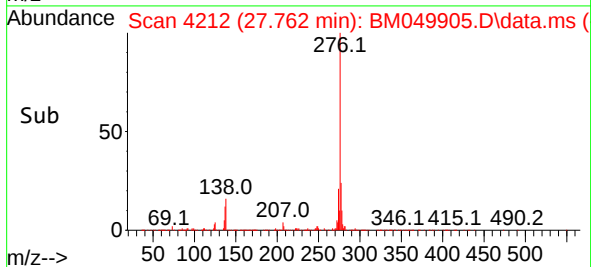
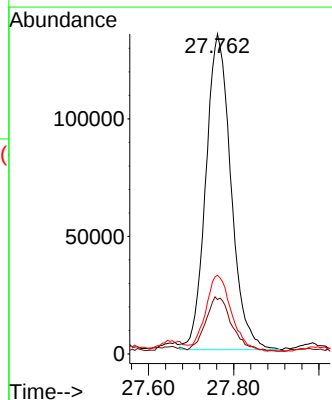
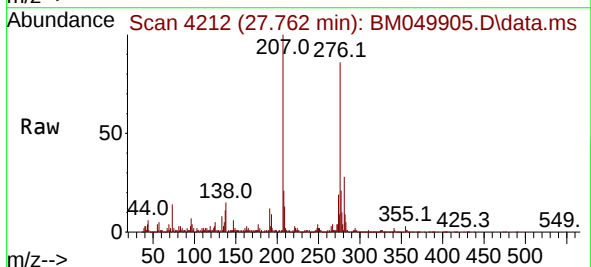
Tgt Ion:276 Resp: 549826

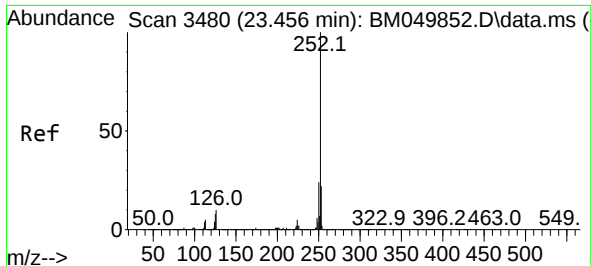
Ion Ratio Lower Upper

276 100

138 18.1 16.8 25.2

277 24.6 20.1 30.1

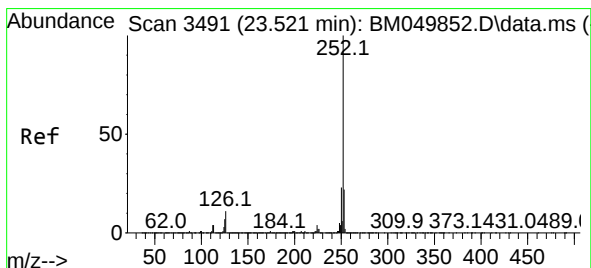
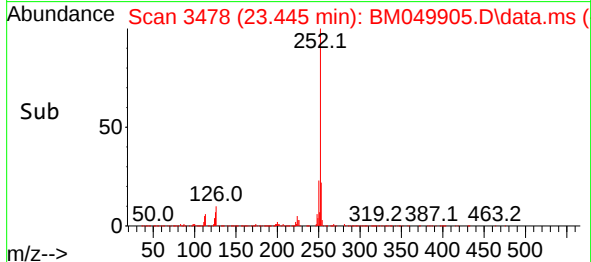
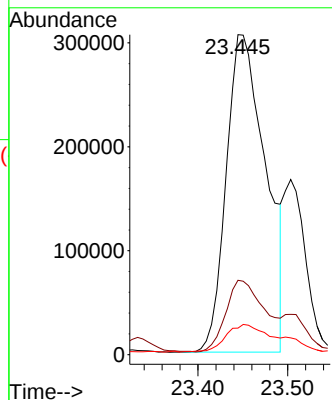
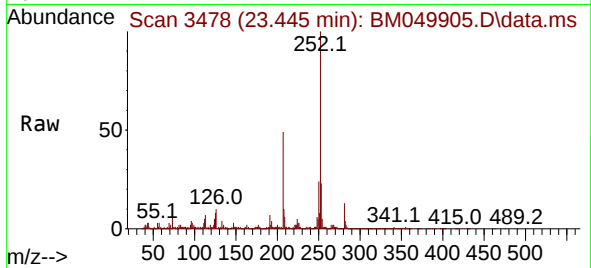




#88  
Benzo(b)fluoranthene  
Concen: 9.451 ng  
RT: 23.445 min Scan# 3480  
Delta R.T. -0.012 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

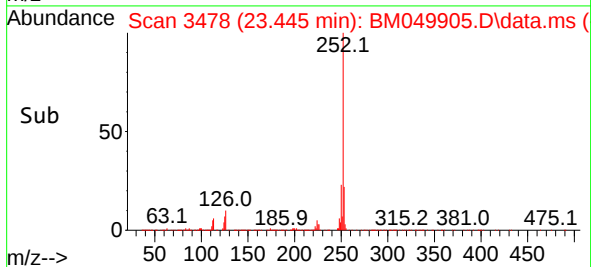
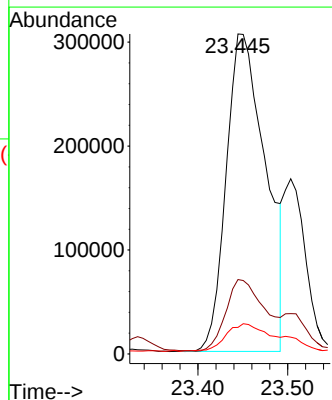
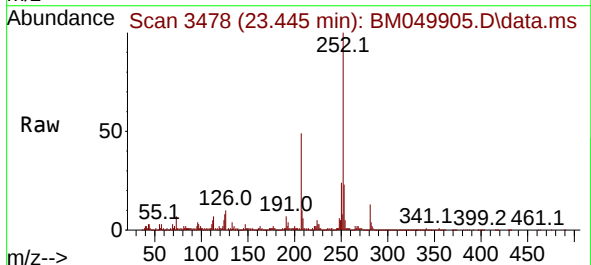
Instrument :  
BNA\_M  
ClientSampleId :  
TP-9

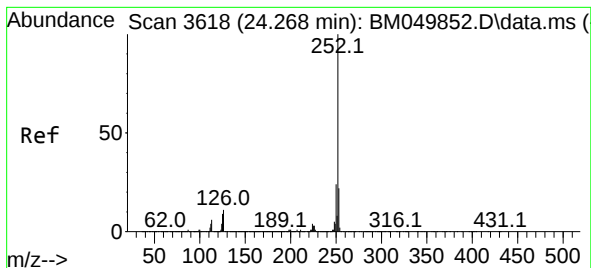
Tgt Ion:252 Resp: 934895  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.5 26.3  
125 8.3 6.2 9.4



#89  
Benzo(k)fluoranthene  
Concen: 9.752 ng  
RT: 23.445 min Scan# 3478  
Delta R.T. -0.076 min  
Lab File: BM049905.D  
Acq: 11 Apr 2025 17:34

Tgt Ion:252 Resp: 934895  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.4 26.2  
125 8.3 5.8 8.8





#90

Benzo(a)pyrene

Concen: 8.824 ng

RT: 24.250 min Scan# 30

Delta R.T. -0.017 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Instrument :

BNA\_M

ClientSampleId :

TP-9

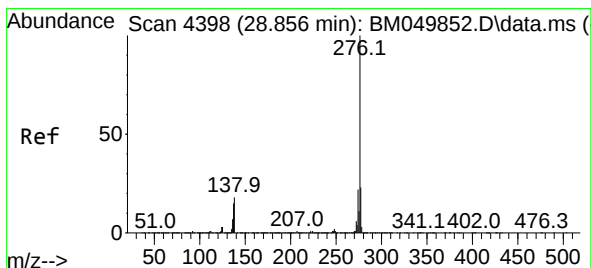
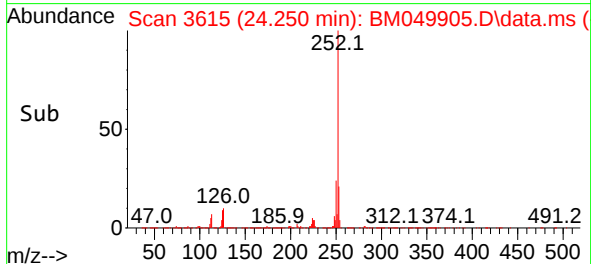
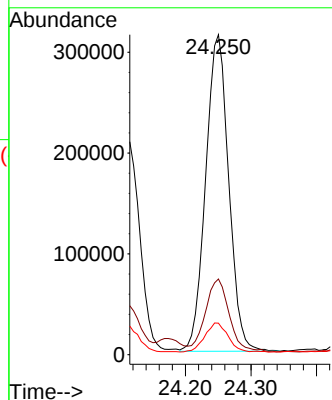
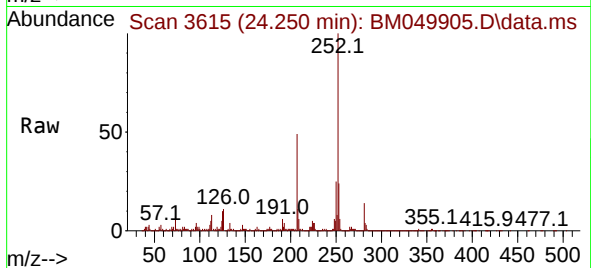
Tgt Ion:252 Resp: 767007

Ion Ratio Lower Upper

252 100

253 23.7 17.8 26.8

125 9.9 7.0 10.4



#92

Benzo(g,h,i)perylene

Concen: 5.585 ng

RT: 28.809 min Scan# 4390

Delta R.T. -0.047 min

Lab File: BM049905.D

Acq: 11 Apr 2025 17:34

Tgt Ion:276 Resp: 542765

Ion Ratio Lower Upper

276 100

277 25.6 18.7 28.1

138 19.2 14.6 21.8

