

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061325\  
 Data File : BP024944.D  
 Acq On : 13 Jun 2025 14:51  
 Operator : RC/JU  
 Sample : Q2286-01 10X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

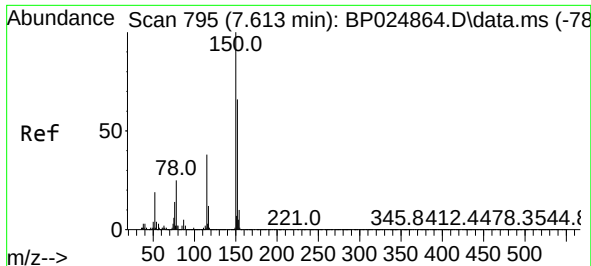
Instrument :  
 BNA\_P  
 ClientSampleId :  
 LAW-25-0082-LAW-250083

Quant Time: Jun 13 15:17:31 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP060625.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 06 16:20:27 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.608  | 152  | 245599   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.372 | 136  | 961065   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.254 | 164  | 595173   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.066 | 188  | 1031307  | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.489 | 240  | 1352680  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.742 | 264  | 1586030  | 20.000 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.249  | 112  | 87793    | 5.967  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.837  | 99   | 107544   | 5.524  | ng    | 0.02     |
| 23) Nitrobenzene-d5           | 8.772  | 82   | 75392    | 3.812  | ng    | 0.01     |
| 42) 2,4,6-Tribromophenol      | 15.784 | 330  | 66256    | 8.052  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 12.854 | 172  | 203709   | 4.611  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.789 | 244  | 337905   | 4.477  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 31) Naphthalene               | 10.431 | 128  | 920419   | 18.688 | ng    | 100      |
| 33) 4-Chloroaniline           | 10.431 | 127  | 120480   | 5.839  | ng    | # 37     |
| 37) 2-Methylnaphthalene       | 12.049 | 142  | 345230   | 11.051 | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.266 | 142  | 171931   | 5.148  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.072 | 154  | 90424    | 2.091  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 13.860 | 165  | 34128    | 3.606  | ng    | # 39     |
| 52) Acenaphthene              | 14.319 | 154  | 140835   | 4.434  | ng    | # 89     |
| 53) 3-Nitroaniline            | 14.213 | 138  | 32493    | 3.308  | ng    | # 23     |
| 54) 2,4-Dinitrophenol         | 14.372 | 184  | 593      | 5.653  | ng    | # 1      |
| 55) Dibenzofuran              | 14.660 | 168  | 243994   | 4.786  | ng    | # 54     |
| 56) 4-Nitrophenol             | 14.548 | 139  | 9159     | 6.436  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.660 | 165  | 30057    | 2.270  | ng    | # 63     |
| 58) Fluorene                  | 15.325 | 166  | 269532   | 6.544  | ng    | # 79     |
| 61) 4-Chlorophenyl-phenyle... | 15.337 | 204  | 40730    | 2.023  | ng    | # 1      |
| 62) 4-Nitroaniline            | 15.490 | 138  | 21451    | 2.409  | ng    | 85       |
| 66) n-Nitrosodiphenylamine    | 15.548 | 169  | 351585   | 10.999 | ng    | # 44     |
| 71) Phenanthrene              | 17.113 | 178  | 1480436  | 25.976 | ng    | # 85     |
| 74) Di-n-butylphthalate       | 18.072 | 149  | 251196   | 3.790  | ng    | # 62     |
| 75) Fluoranthene              | 19.207 | 202  | 510102   | 7.722  | ng    | 81       |
| 78) Pyrene                    | 19.584 | 202  | 323201   | 3.825  | ng    | # 80     |
| -----                         |        |      |          |        |       |          |

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

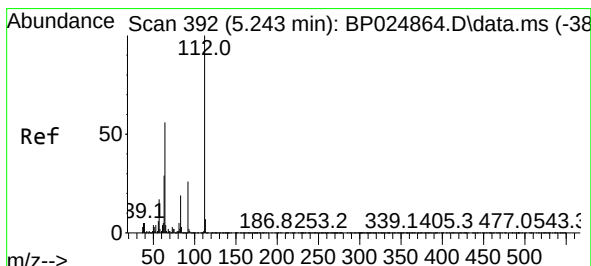
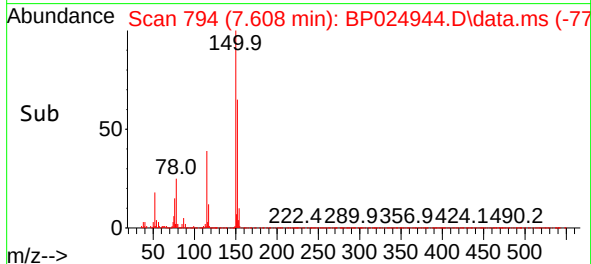
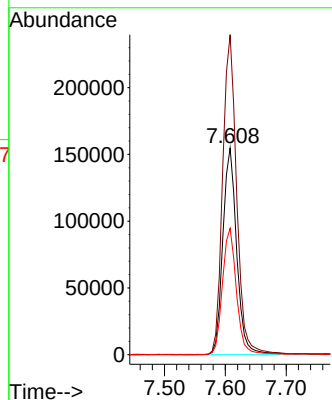
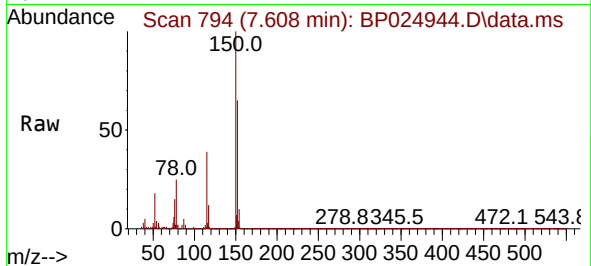




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.608 min Scan# 795  
Delta R.T. -0.005 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

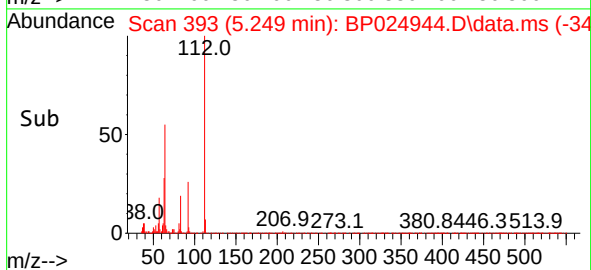
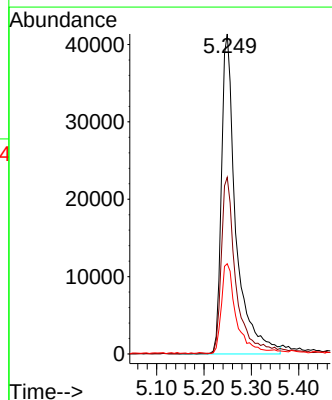
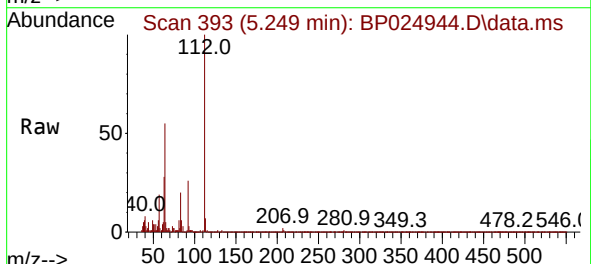
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BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

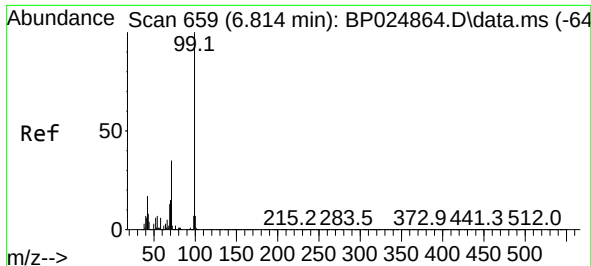
Tgt Ion:152 Resp: 245599  
Ion Ratio Lower Upper  
152 100  
150 154.8 122.1 183.1  
115 61.1 46.4 69.6



#5  
2-Fluorophenol  
Concen: 5.967 ng  
RT: 5.249 min Scan# 393  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:112 Resp: 87793  
Ion Ratio Lower Upper  
112 100  
64 55.2 44.7 67.1  
63 28.2 23.5 35.3

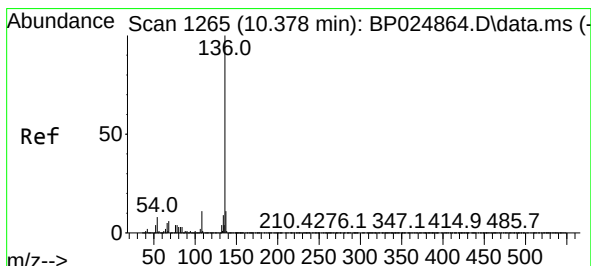
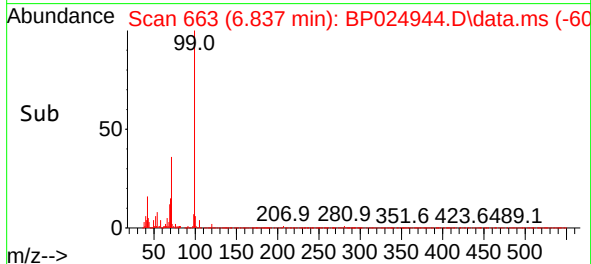
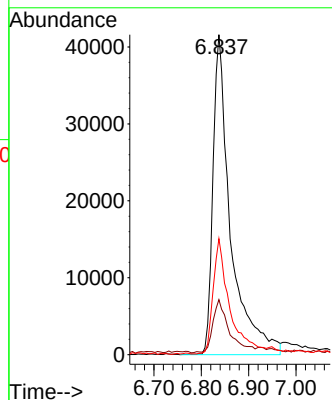
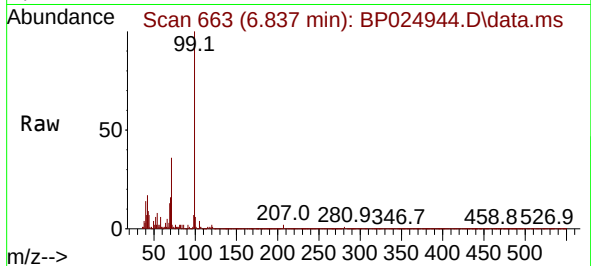




#7  
Phenol-d6  
Concen: 5.524 ng  
RT: 6.837 min Scan# 60  
Delta R.T. 0.024 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

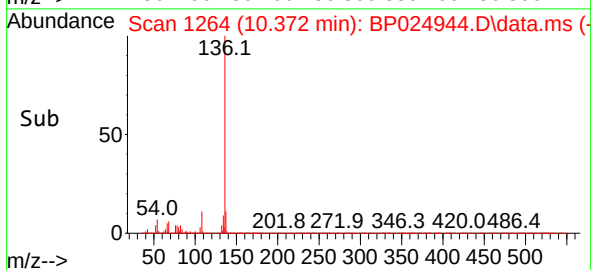
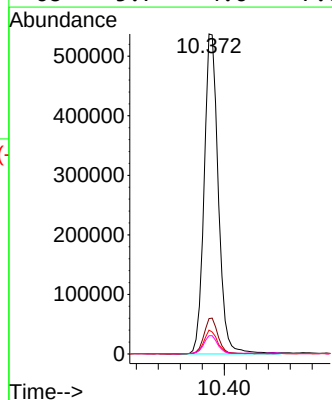
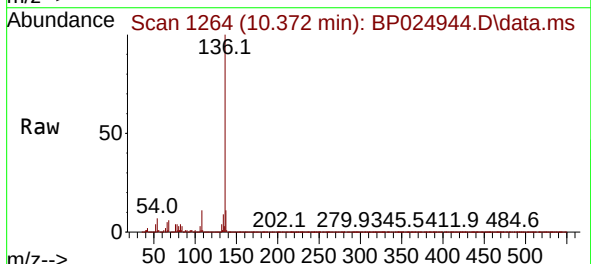
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ClientSampleId :  
LAW-25-0082-LAW-250083

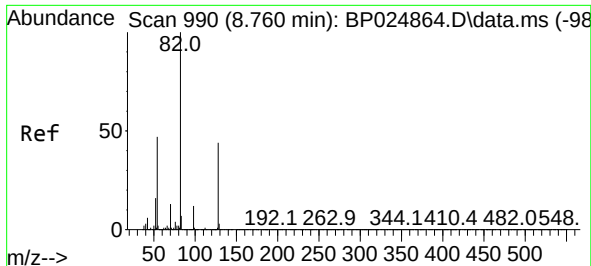
Tgt Ion: 99 Resp: 107544  
Ion Ratio Lower Upper  
99 100  
42 17.2 13.4 20.2  
71 36.3 27.6 41.4



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.372 min Scan# 1264  
Delta R.T. -0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion: 136 Resp: 961065  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 7.5 6.1 9.1  
68 5.7 4.6 7.0

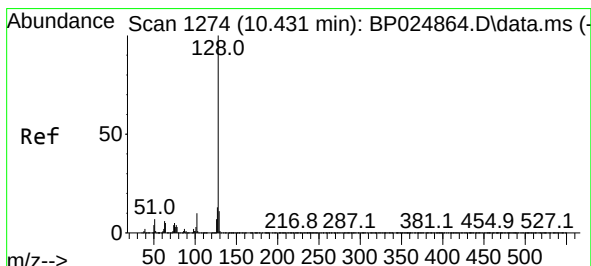
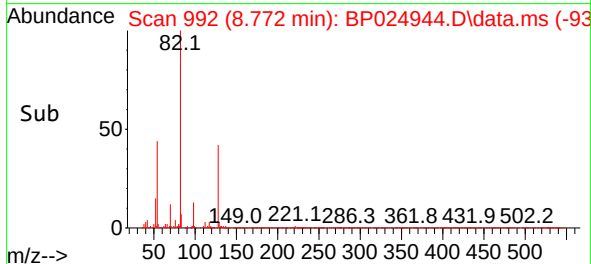
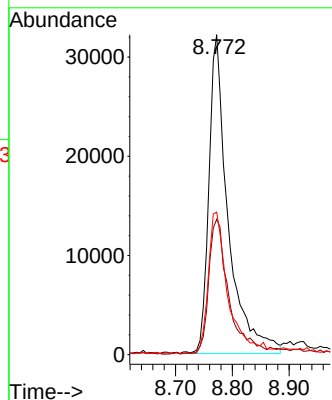
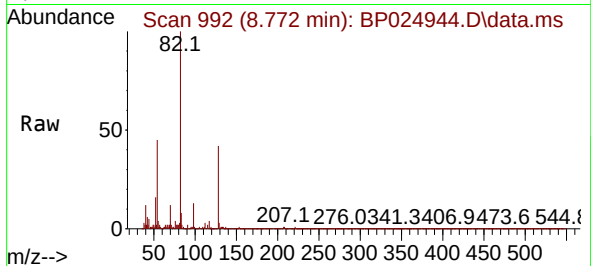




#23  
Nitrobenzene-d5  
Concen: 3.812 ng  
RT: 8.772 min Scan# 990  
Delta R.T. 0.012 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

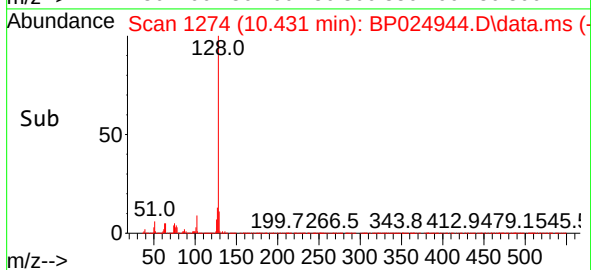
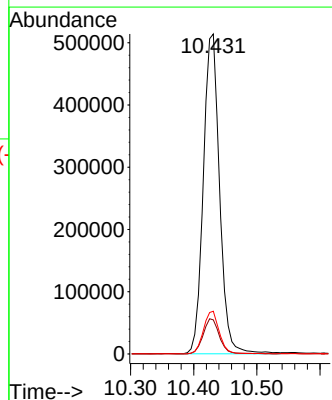
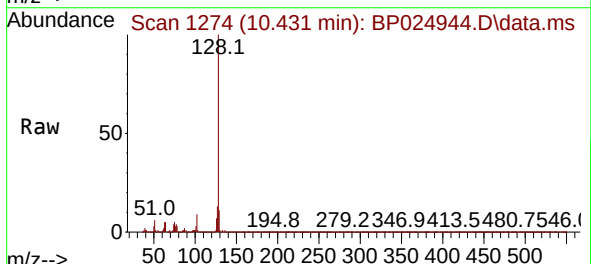
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LAW-25-0082-LAW-250083

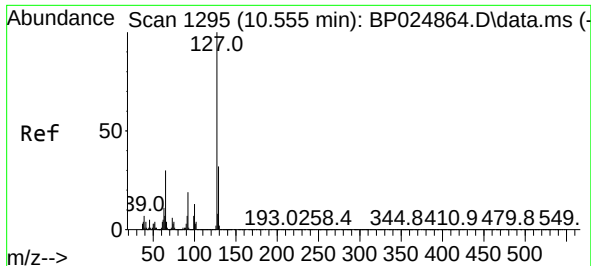
Tgt Ion: 82 Resp: 75392  
Ion Ratio Lower Upper  
82 100  
128 42.3 35.3 52.9  
54 44.6 37.4 56.0



#31  
Naphthalene  
Concen: 18.688 ng  
RT: 10.431 min Scan# 1274  
Delta R.T. 0.000 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion: 128 Resp: 920419  
Ion Ratio Lower Upper  
128 100  
129 10.6 8.7 13.1  
127 13.4 10.7 16.1

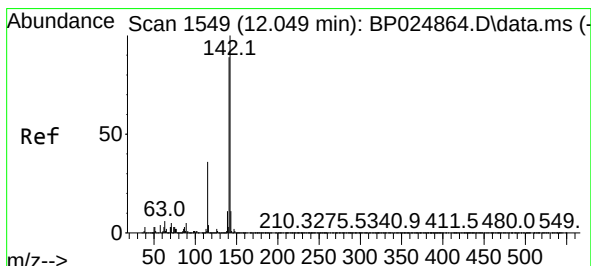
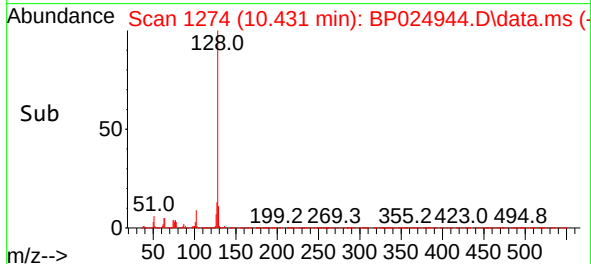
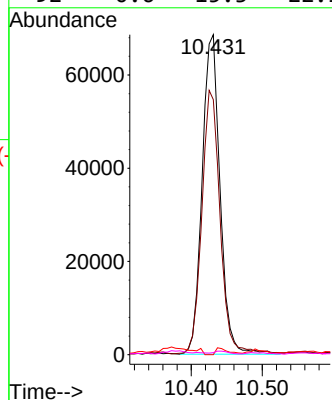
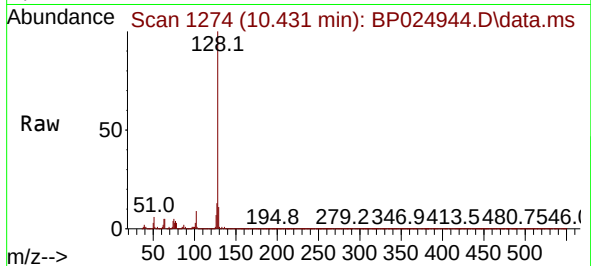




#33  
4-Chloroaniline  
Concen: 5.839 ng  
RT: 10.431 min Scan# 1274  
Delta R.T. -0.123 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

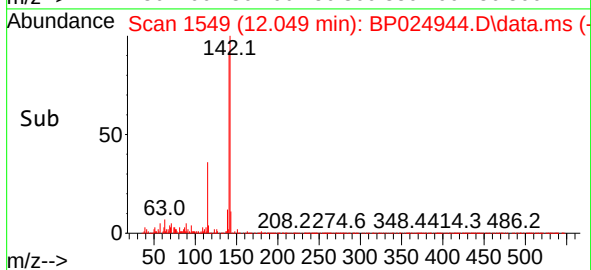
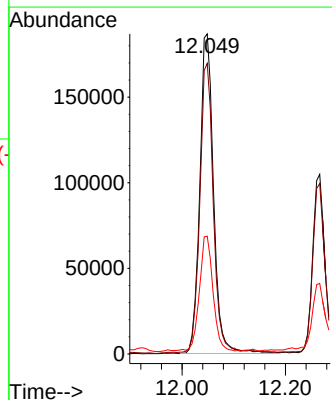
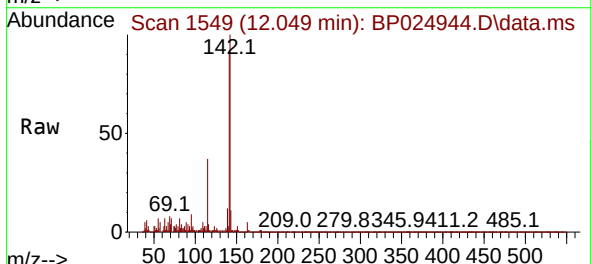
Instrument :  
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ClientSampleId :  
LAW-25-0082-LAW-250083

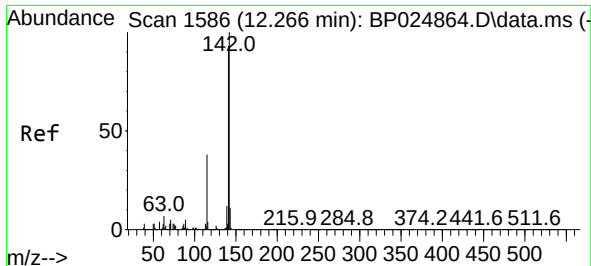
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 120480 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 79.7  | 25.9  | 38.9#  |
| 65       | 0.0   | 23.9  | 35.9#  |
| 92       | 0.6   | 15.3  | 22.9#  |



#37  
2-Methylnaphthalene  
Concen: 11.051 ng  
RT: 12.049 min Scan# 1549  
Delta R.T. 0.000 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 142   | Resp: | 345230 |
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 90.8  | 71.2  | 106.8  |
| 115      | 36.8  | 28.5  | 42.7   |

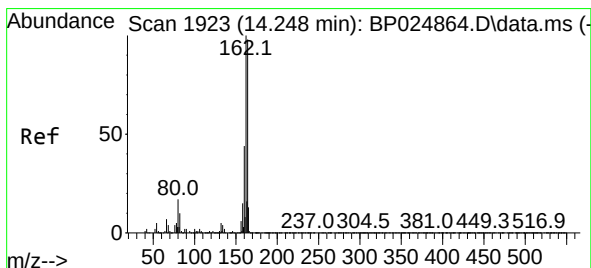
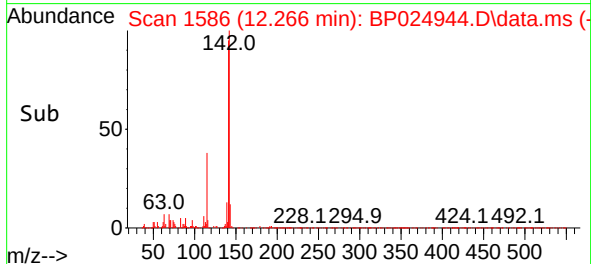
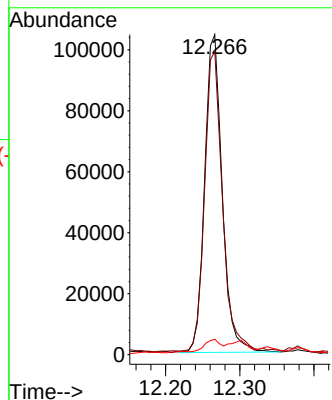
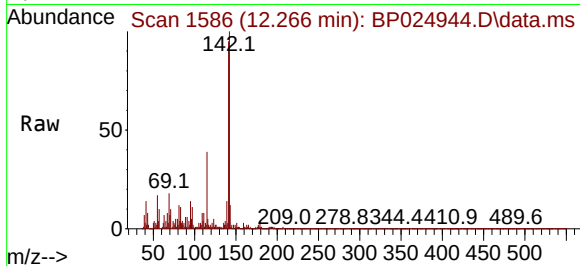




#38  
1-Methylnaphthalene  
Concen: 5.148 ng  
RT: 12.266 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

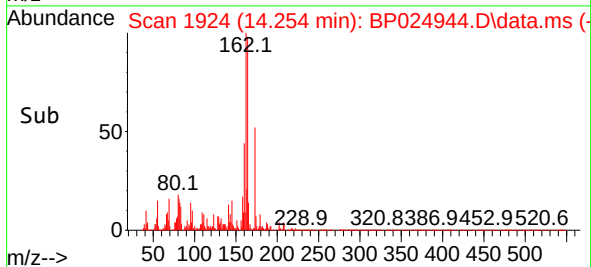
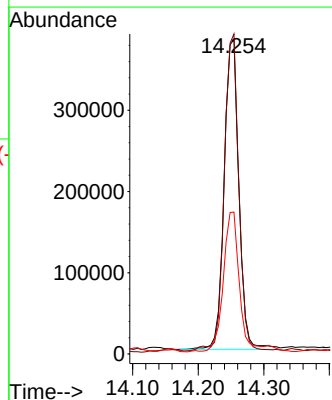
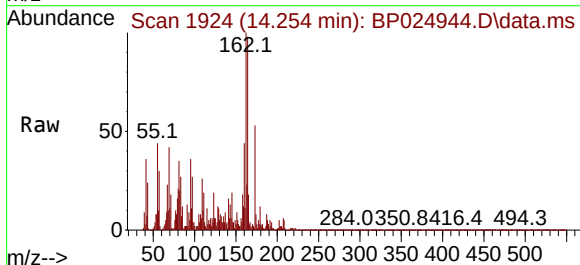
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

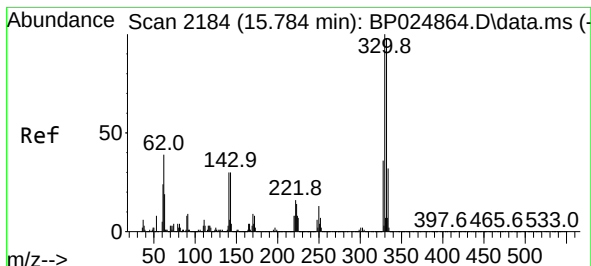
Tgt Ion:142 Resp: 171931  
Ion Ratio Lower Upper  
142 100  
141 94.8 74.7 112.1  
116 4.9 3.4 5.0



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.254 min Scan# 1924  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:164 Resp: 595173  
Ion Ratio Lower Upper  
164 100  
162 101.7 81.6 122.4  
160 45.1 36.2 54.2





#42

2,4,6-Tribromophenol

Concen: 8.052 ng

RT: 15.784 min Scan# 21

Delta R.T. 0.000 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Instrument :

BNA\_P

ClientSampleId :

LAW-25-0082-LAW-250083

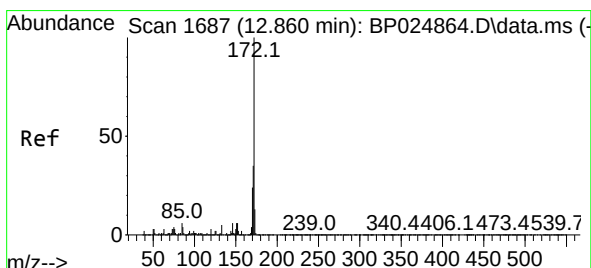
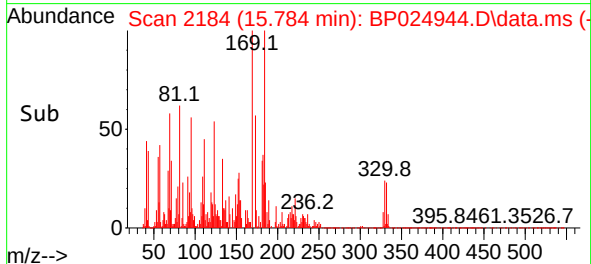
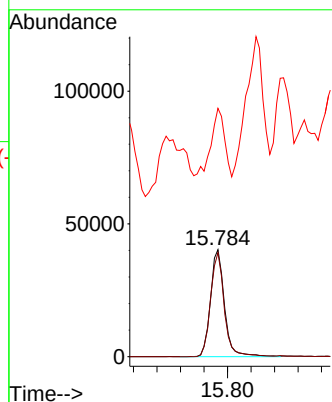
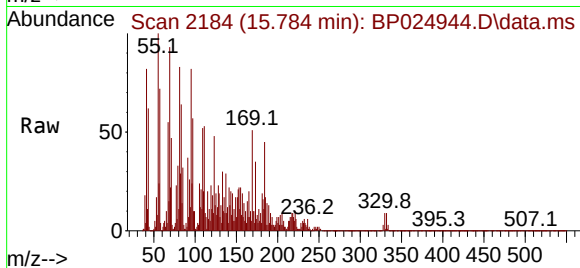
Tgt Ion:330 Resp: 66256

Ion Ratio Lower Upper

330 100

332 95.7 77.7 116.5

141 60.0 26.4 39.6#



#45

2-Fluorobiphenyl

Concen: 4.611 ng

RT: 12.854 min Scan# 1686

Delta R.T. -0.006 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

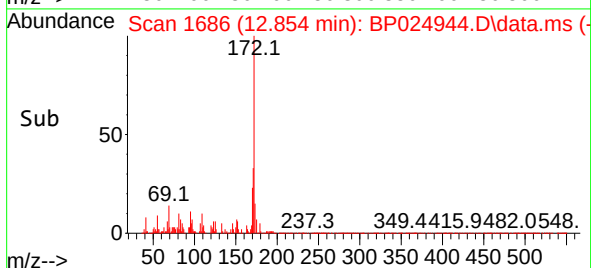
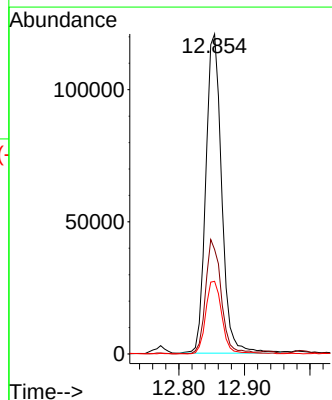
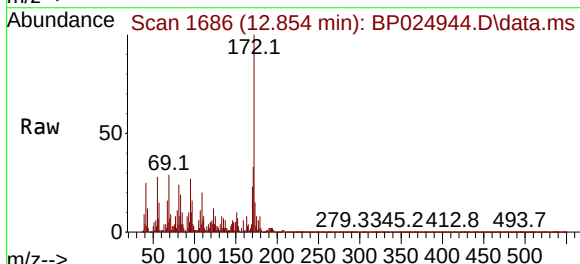
Tgt Ion:172 Resp: 203709

Ion Ratio Lower Upper

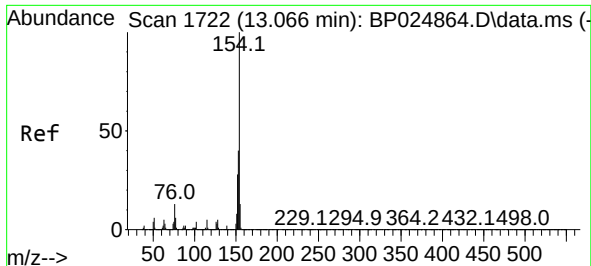
172 100

171 32.7 28.3 42.5

170 22.7 19.0 28.4



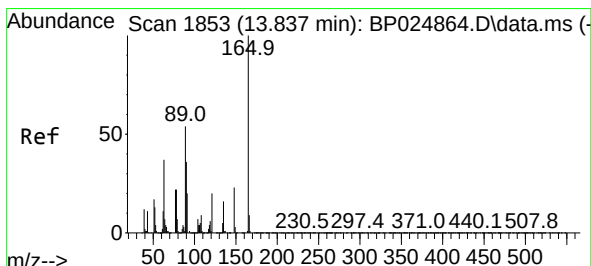
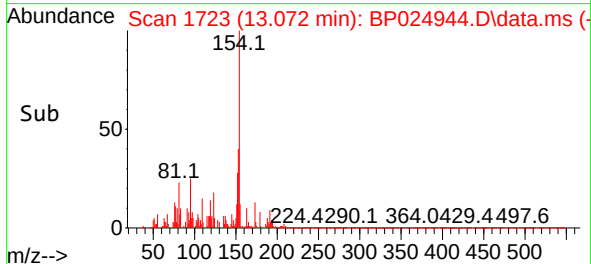
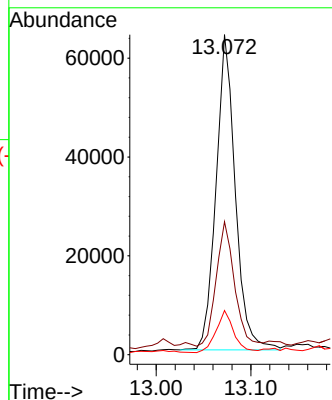
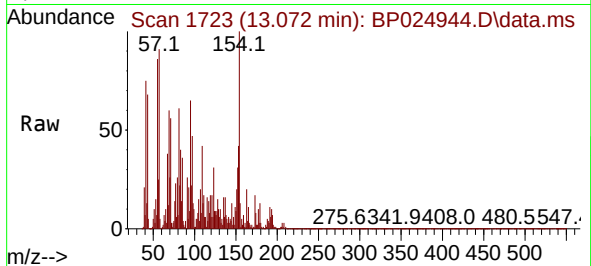




#46  
1,1'-Biphenyl  
Concen: 2.091 ng  
RT: 13.072 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

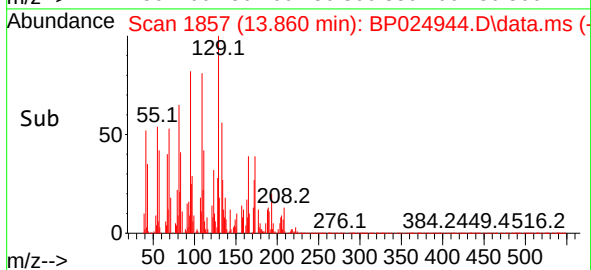
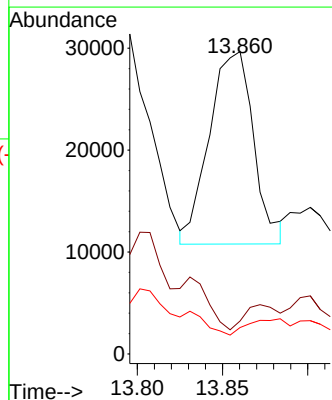
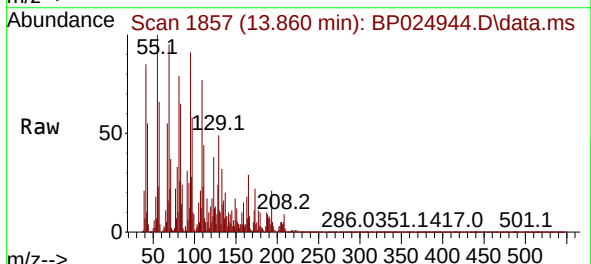
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

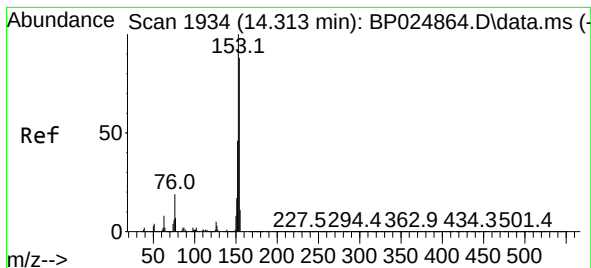
Tgt Ion:154 Resp: 90424  
Ion Ratio Lower Upper  
154 100  
153 41.5 20.3 60.3  
76 13.8 0.0 33.0



#51  
2,6-Dinitrotoluene  
Concen: 3.606 ng  
RT: 13.860 min Scan# 1857  
Delta R.T. 0.024 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:165 Resp: 34128  
Ion Ratio Lower Upper  
165 100  
63 10.9 41.8 62.8#  
89 8.7 43.1 64.7#





#52

Acenaphthene

Concen: 4.434 ng

RT: 14.319 min Scan# 1934

Delta R.T. 0.006 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Instrument :

BNA\_P

ClientSampleId :

LAW-25-0082-LAW-250083

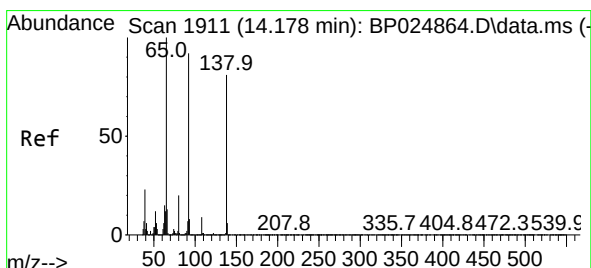
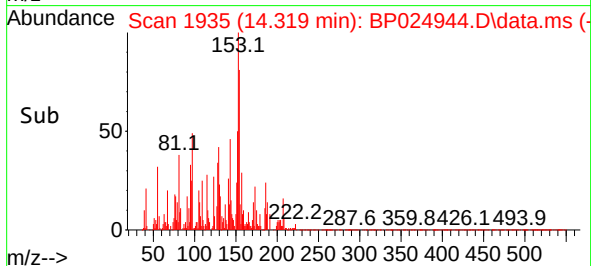
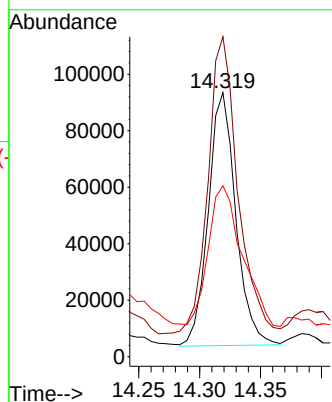
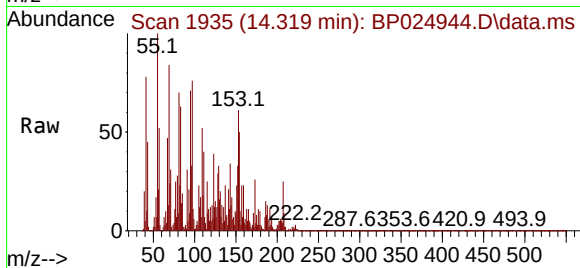
Tgt Ion:154 Resp: 140835

Ion Ratio Lower Upper

154 100

153 121.2 90.5 135.7

152 64.8 42.1 63.1#



#53

3-Nitroaniline

Concen: 3.308 ng

RT: 14.213 min Scan# 1917

Delta R.T. 0.035 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

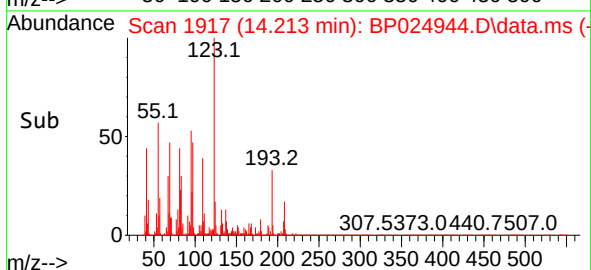
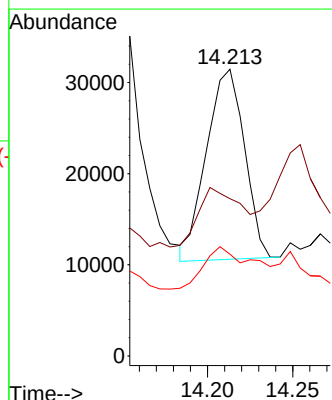
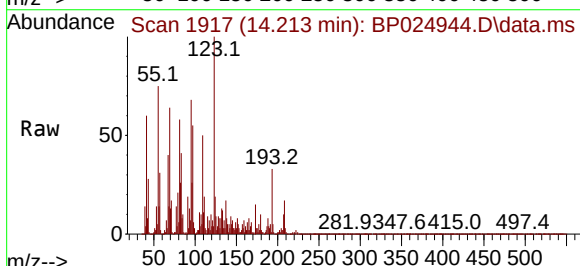
Tgt Ion:138 Resp: 32493

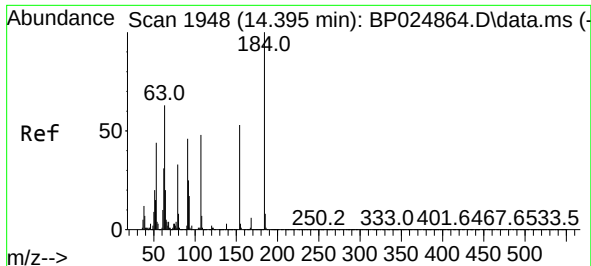
Ion Ratio Lower Upper

138 100

108 54.8 8.6 12.8#

92 35.5 91.3 136.9#

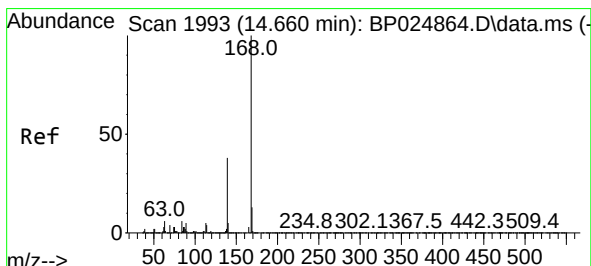
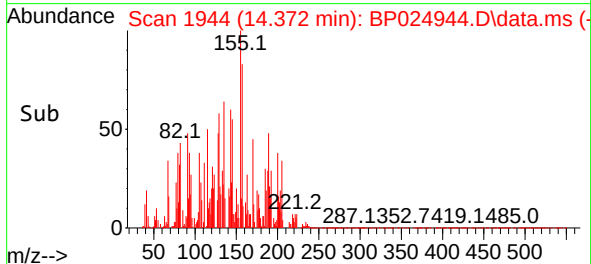
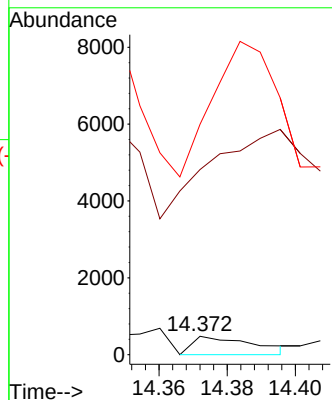
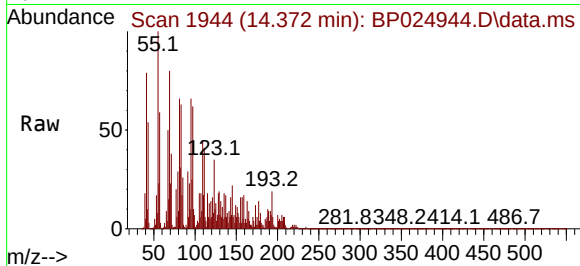




#54  
2,4-Dinitrophenol  
Concen: 5.653 ng  
RT: 14.372 min Scan# 1944  
Delta R.T. -0.023 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

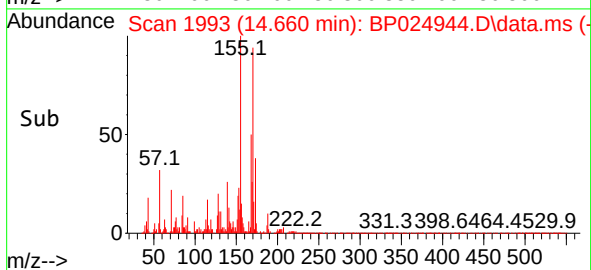
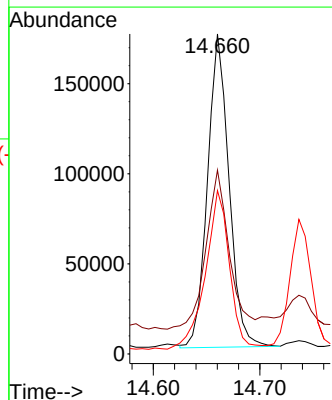
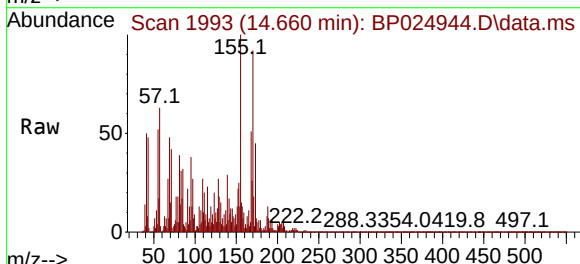
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

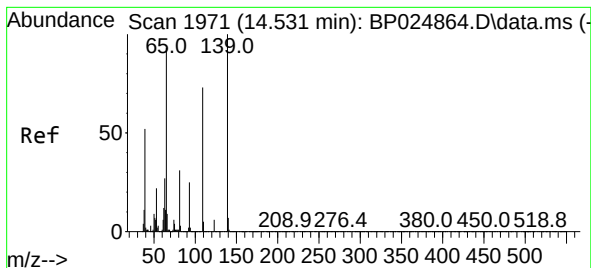
Tgt Ion:184 Resp: 593  
Ion Ratio Lower Upper  
184 100  
63 1003.5 51.0 76.4#  
154 1249.0 51.7 77.5#



#55  
Dibenzofuran  
Concen: 4.786 ng  
RT: 14.660 min Scan# 1993  
Delta R.T. 0.000 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:168 Resp: 243994  
Ion Ratio Lower Upper  
168 100  
139 57.5 31.6 47.4#  
169 51.1 10.6 15.8#





#56

4-Nitrophenol

Concen: 6.436 ng

RT: 14.548 min Scan# 1971

Delta R.T. 0.017 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Instrument :

BNA\_P

ClientSampleId :

LAW-25-0082-LAW-250083

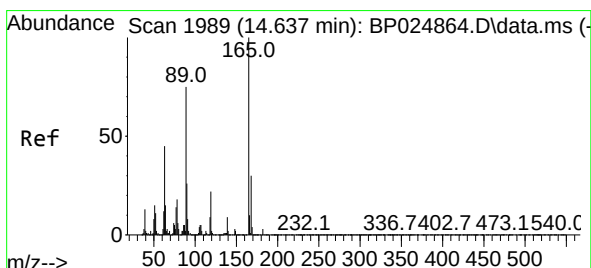
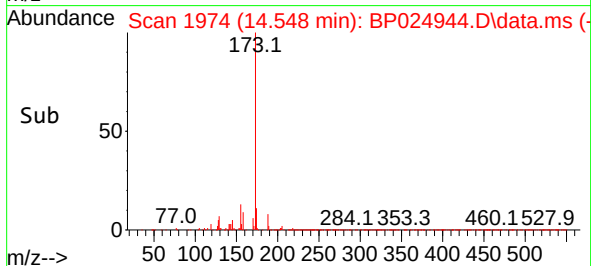
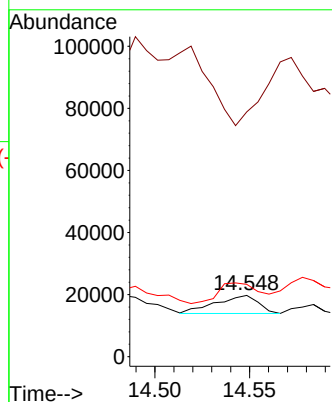
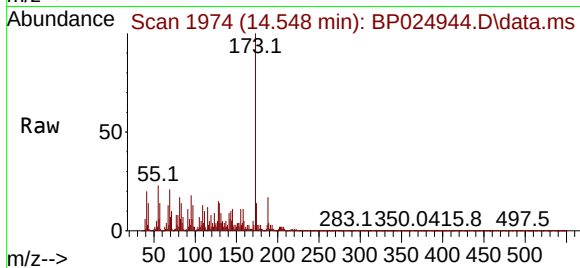
Tgt Ion:139 Resp: 9159

Ion Ratio Lower Upper

139 100

109 398.9 53.1 93.1#

65 118.0 73.0 113.0#



#57

2,4-Dinitrotoluene

Concen: 2.270 ng

RT: 14.660 min Scan# 1993

Delta R.T. 0.023 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Tgt Ion:165 Resp: 30057

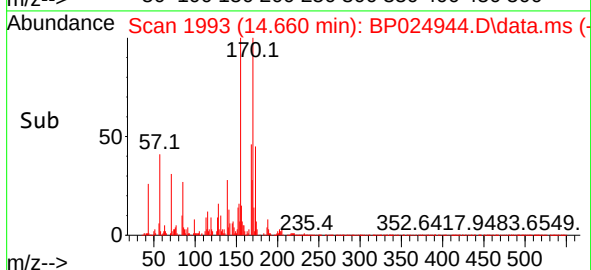
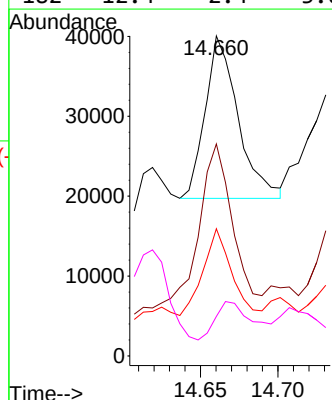
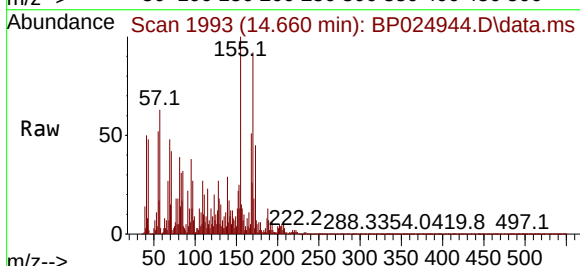
Ion Ratio Lower Upper

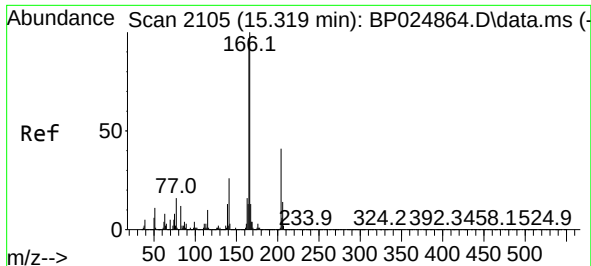
165 100

63 66.2 37.0 55.6#

89 39.7 60.1 90.1#

182 12.4 2.4 3.6#

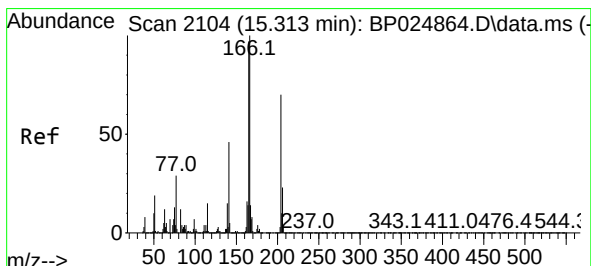
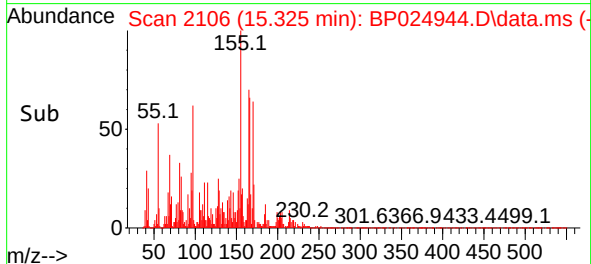
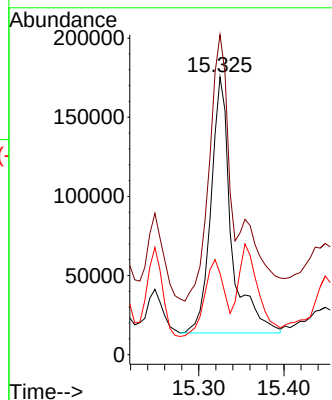
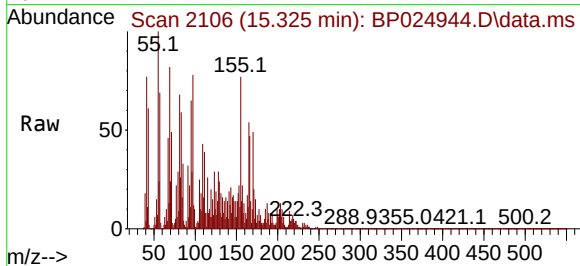




#58  
Fluorene  
Concen: 6.544 ng  
RT: 15.325 min Scan# 2105  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

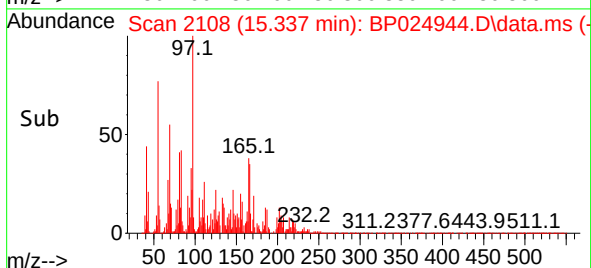
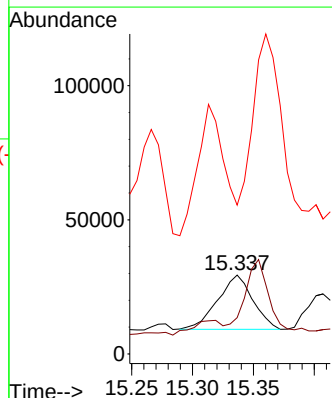
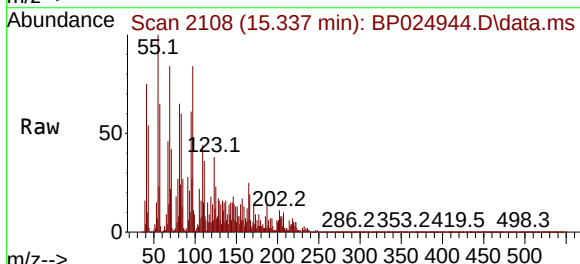
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

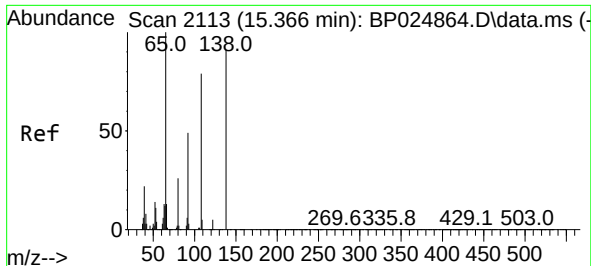
Tgt Ion:166 Resp: 269532  
Ion Ratio Lower Upper  
166 100  
165 115.2 77.7 116.5  
167 29.3 10.6 16.0#



#61  
4-Chlorophenyl-phenylether  
Concen: 2.023 ng  
RT: 15.337 min Scan# 2108  
Delta R.T. 0.024 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:204 Resp: 40730  
Ion Ratio Lower Upper  
204 100  
206 46.1 26.6 40.0#  
141 188.6 52.4 78.6#

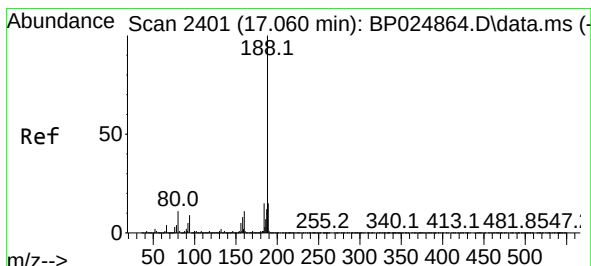
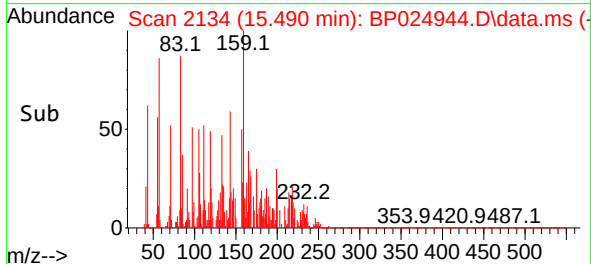
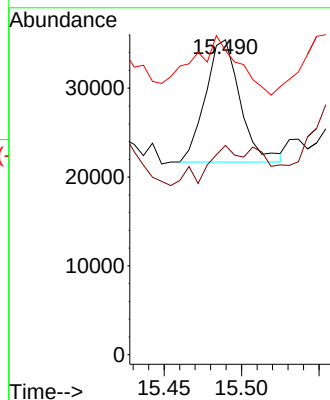
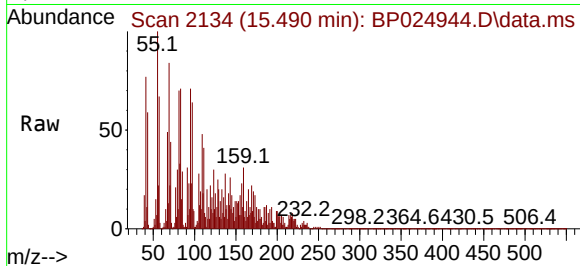




#62  
4-Nitroaniline  
Concen: 2.409 ng  
RT: 15.490 min Scan# 2113  
Delta R.T. 0.124 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

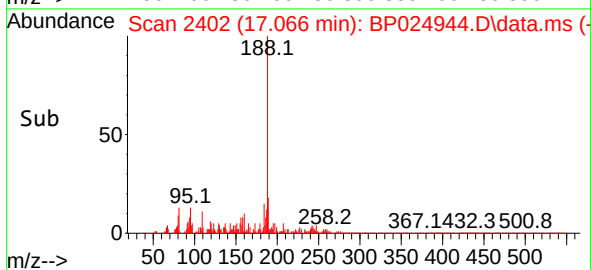
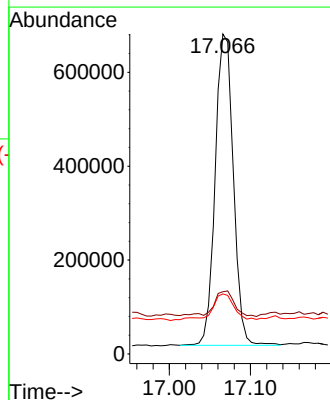
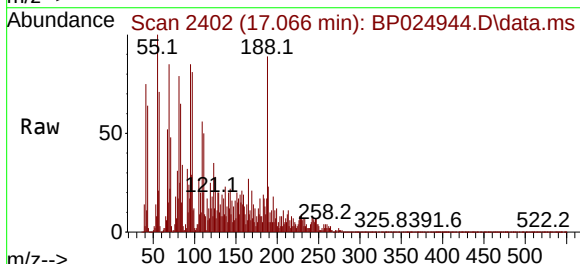
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

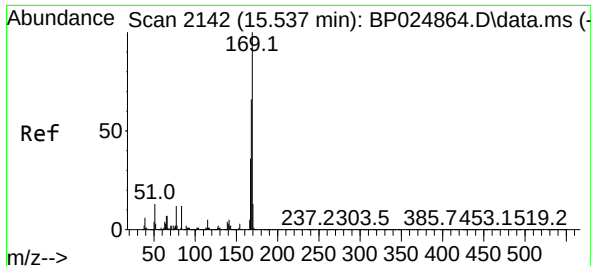
Tgt Ion:138 Resp: 21451  
Ion Ratio Lower Upper  
138 100  
92 66.5 33.5 73.5  
108 96.6 65.1 105.1



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.066 min Scan# 2402  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:188 Resp: 1031307  
Ion Ratio Lower Upper  
188 100  
94 19.5 7.3 10.9#  
80 18.8 8.5 12.7#

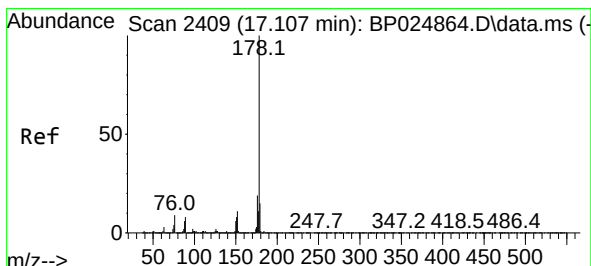
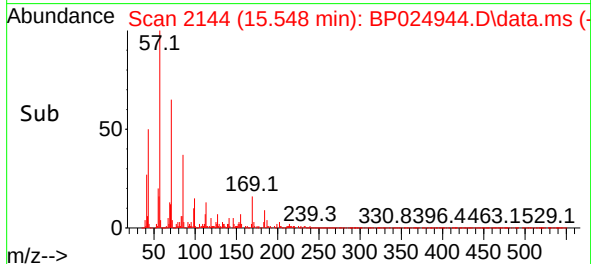
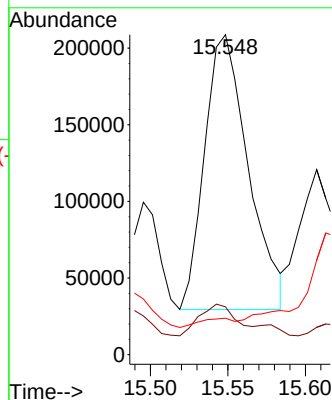
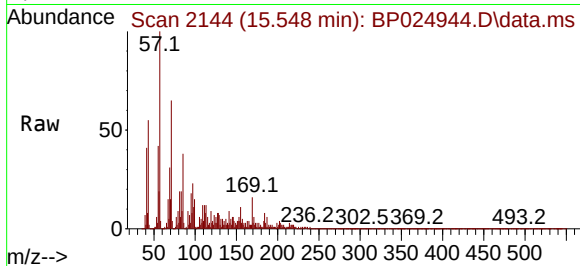




#66  
n-Nitrosodiphenylamine  
Concen: 10.999 ng  
RT: 15.548 min Scan# 2142  
Delta R.T. 0.012 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

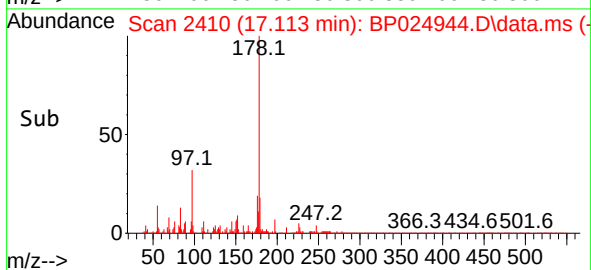
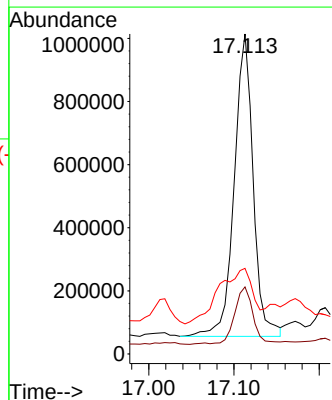
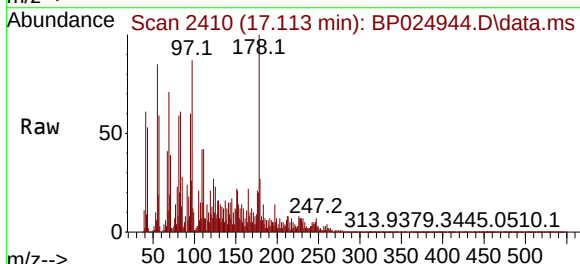
Instrument :  
BNA\_P  
ClientSampleId :  
LAW-25-0082-LAW-250083

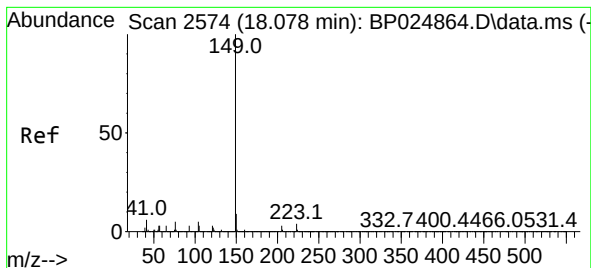
Tgt Ion:169 Resp: 351585  
Ion Ratio Lower Upper  
169 100  
168 14.9 53.0 79.6#  
167 11.4 28.6 43.0#



#71  
Phenanthrene  
Concen: 25.976 ng  
RT: 17.113 min Scan# 2410  
Delta R.T. 0.006 min  
Lab File: BP024944.D  
Acq: 13 Jun 2025 14:51

Tgt Ion:178 Resp: 1480436  
Ion Ratio Lower Upper  
178 100  
176 20.9 15.3 22.9  
179 26.7 12.1 18.1#





#74

Di-n-butylphthalate

Concen: 3.790 ng

RT: 18.072 min Scan# 2573

Delta R.T. -0.006 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Instrument :

BNA\_P

ClientSampleId :

LAW-25-0082-LAW-250083

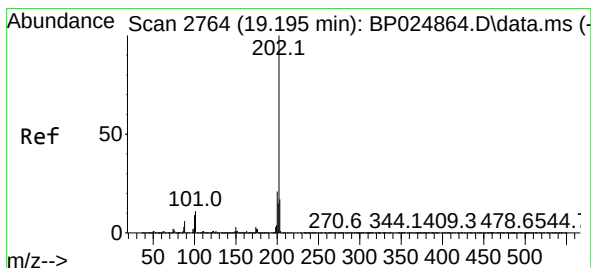
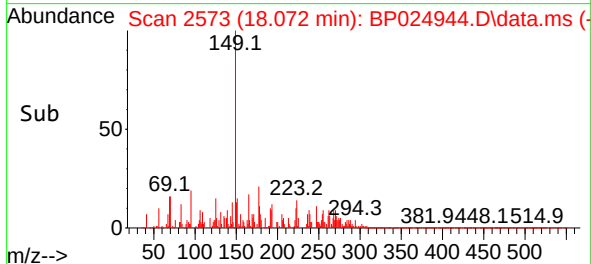
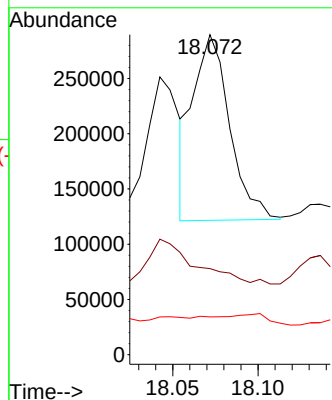
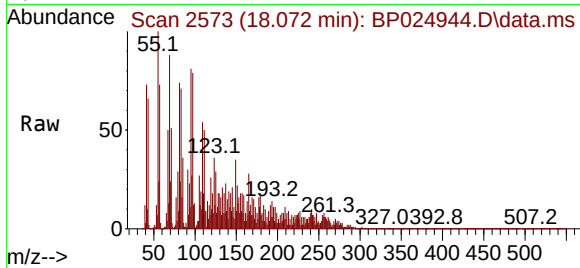
Tgt Ion:149 Resp: 251196

Ion Ratio Lower Upper

149 100

150 26.9 7.4 11.2#

104 11.8 4.2 6.2#



#75

Fluoranthene

Concen: 7.722 ng

RT: 19.207 min Scan# 2766

Delta R.T. 0.012 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

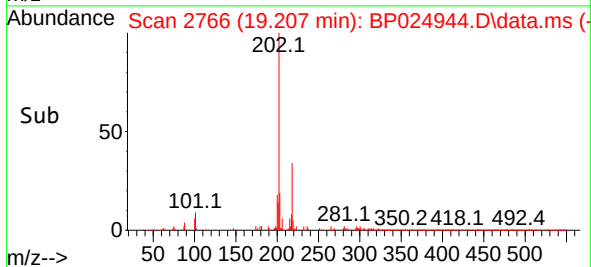
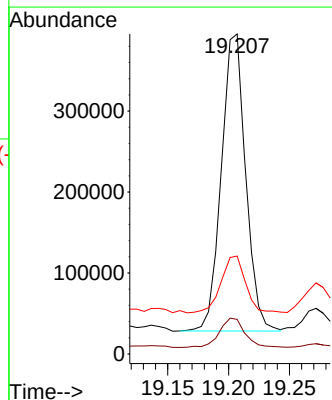
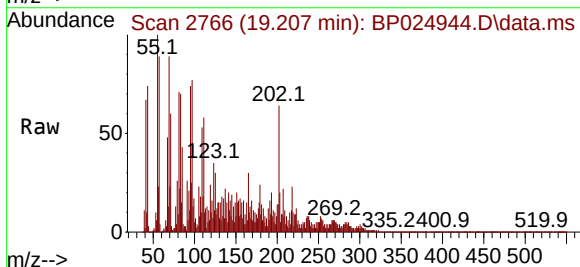
Tgt Ion:202 Resp: 510102

Ion Ratio Lower Upper

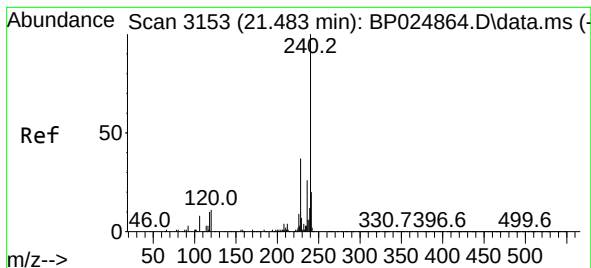
202 100

101 10.8 0.0 31.4

203 30.6 0.0 37.5







#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.489 min Scan# 3154

Delta R.T. 0.006 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

Instrument :

BNA\_P

ClientSampleId :

LAW-25-0082-LAW-250083

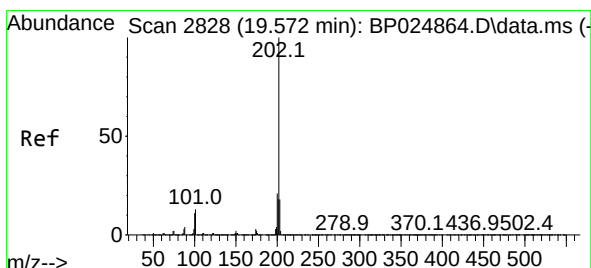
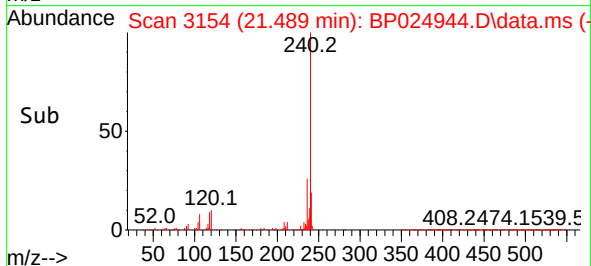
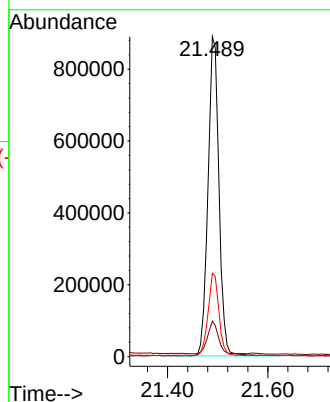
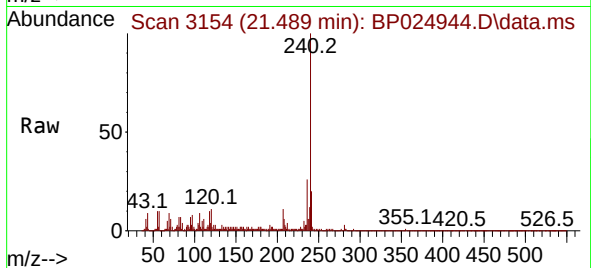
Tgt Ion:240 Resp: 1352680

Ion Ratio Lower Upper

240 100

120 11.1 8.9 13.3

236 26.1 20.9 31.3



#78

Pyrene

Concen: 3.825 ng

RT: 19.584 min Scan# 2830

Delta R.T. 0.012 min

Lab File: BP024944.D

Acq: 13 Jun 2025 14:51

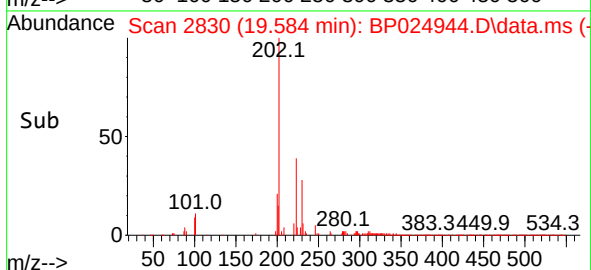
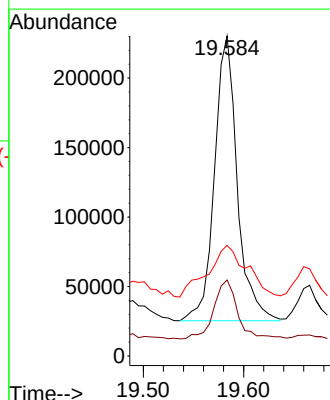
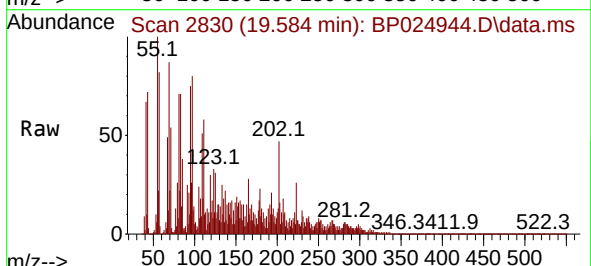
Tgt Ion:202 Resp: 323201

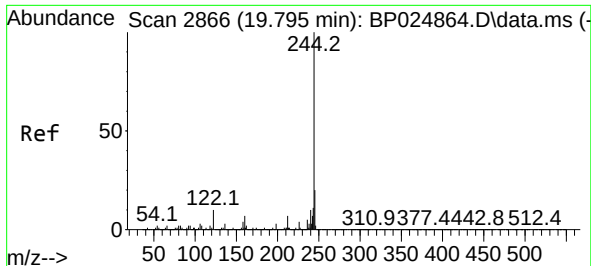
Ion Ratio Lower Upper

202 100

200 23.7 17.1 25.7

203 34.6 14.0 21.0#

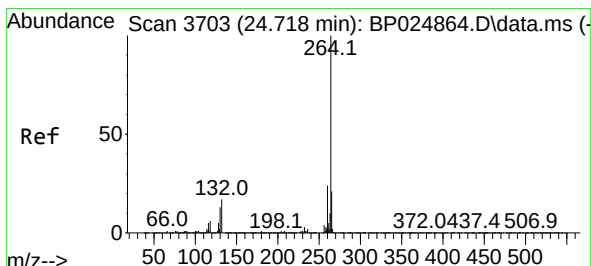
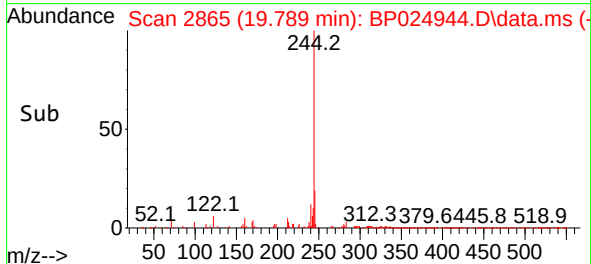
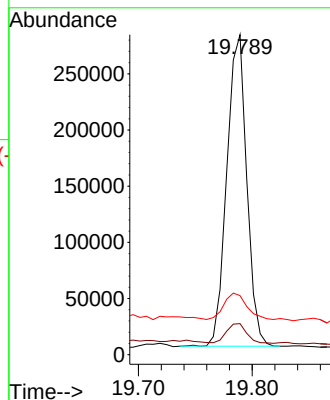
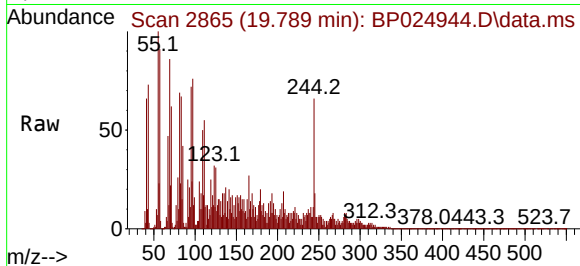




#79  
 Terphenyl-d14  
 Concen: 4.477 ng  
 RT: 19.789 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BP024944.D  
 Acq: 13 Jun 2025 14:51

Instrument :  
 BNA\_P  
 ClientSampleId :  
 LAW-25-0082-LAW-250083

Tgt Ion:244 Resp: 337905  
 Ion Ratio Lower Upper  
 244 100  
 212 9.7 5.6 8.4#  
 122 18.5 7.7 11.5#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.742 min Scan# 3707  
 Delta R.T. 0.024 min  
 Lab File: BP024944.D  
 Acq: 13 Jun 2025 14:51

Tgt Ion:264 Resp: 1586030  
 Ion Ratio Lower Upper  
 264 100  
 260 23.4 19.0 28.4  
 265 22.1 17.4 26.0

