

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080723\  
 Data File : BM041313.D  
 Acq On : 07 Aug 2023 15:35  
 Operator : MA/JU  
 Sample : 03903-09  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MW-09

Quant Time: Aug 07 17:30:54 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 17:25:06 2023  
 Response via : Initial Calibration

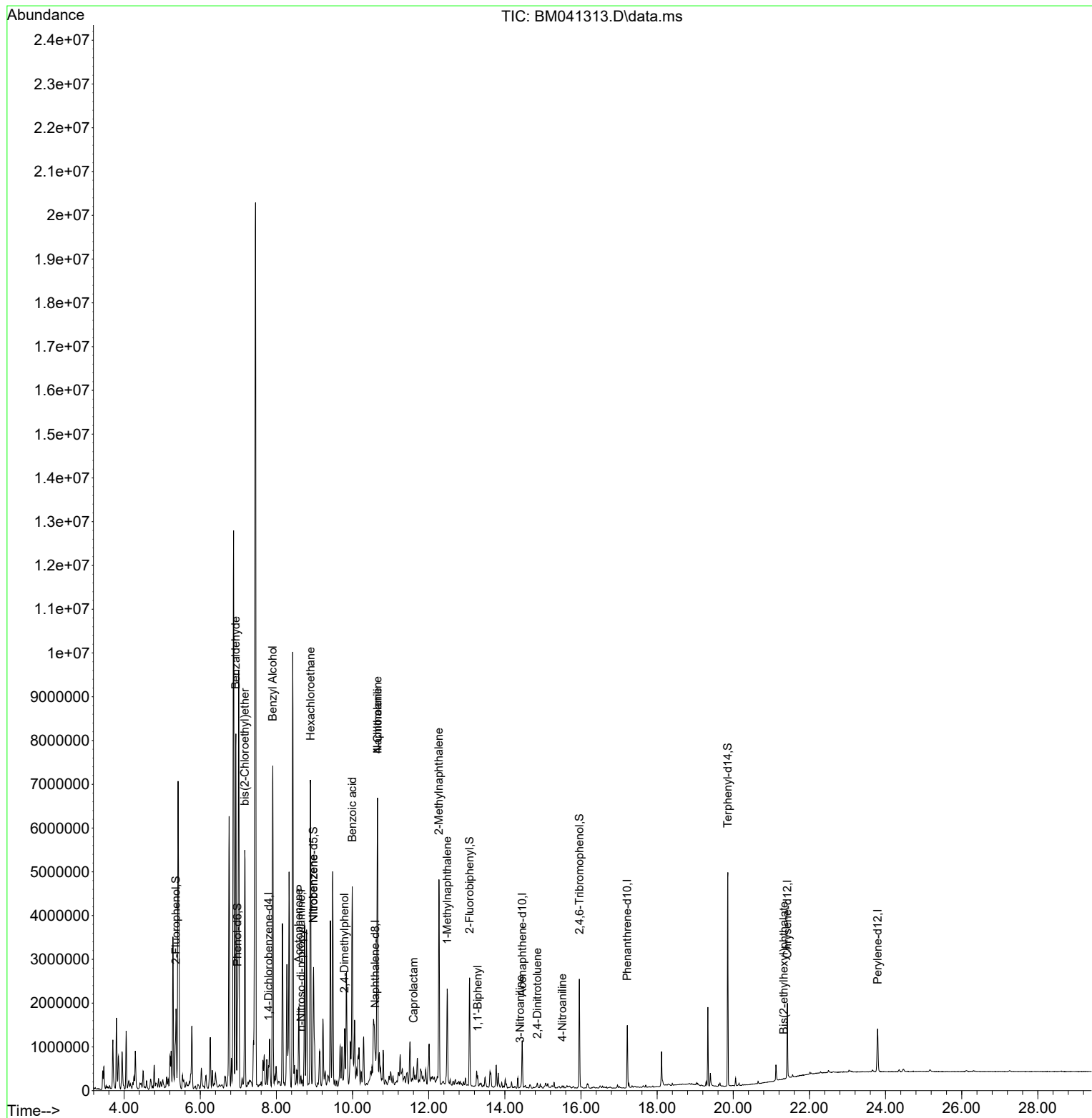
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.792  | 152  | 123845   | 20.000  | ng     | 0.00     |
| 21) Naphthalene-d8            | 10.598 | 136  | 507548   | 20.000  | ng     | 0.00     |
| 39) Acenaphthene-d10          | 14.457 | 164  | 346102   | 20.000  | ng     | 0.00     |
| 64) Phenanthrene-d10          | 17.215 | 188  | 817172   | 20.000  | ng     | 0.00     |
| 76) Chrysene-d12              | 21.421 | 240  | 758873   | 20.000  | ng     | 0.00     |
| 86) Perylene-d12              | 23.791 | 264  | 755427   | 20.000  | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 5) 2-Fluorophenol             | 5.363  | 112  | 709852   | 85.666  | ng     | 0.00     |
| 7) Phenol-d6                  | 6.975  | 99   | 867744   | 80.788  | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 8.975  | 82   | 554373   | 50.795  | ng     | 0.01     |
| 42) 2,4,6-Tribromophenol      | 15.957 | 330  | 446165   | 91.139  | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.074 | 172  | 1234416  | 45.055  | ng     | 0.00     |
| 79) Terphenyl-d14             | 19.856 | 244  | 2330825  | 55.533  | ng     | 0.00     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 9) Benzaldehyde               | 6.934  | 77   | 559461   | 98.713  | ng     | # 1      |
| 11) bis(2-Chloroethyl)ether   | 7.169  | 93   | 17177    | 2.046   | ng     | # 1      |
| 15) Benzyl Alcohol            | 7.904  | 79   | 370482   | 54.619  | ng     | # 4      |
| 18) Hexachloroethane          | 8.898  | 117  | 564294   | 171.258 | ng     | # 1      |
| 19) n-Nitroso-di-n-propyla... | 8.645  | 70   | 28857    | 4.423   | ng     | # 53     |
| 22) Acetophenone              | 8.586  | 105  | 1161618  | 86.417  | ng     | # 55     |
| 24) Nitrobenzene              | 8.975  | 77   | 67160    | 6.085   | ng     | # 12     |
| 27) 2,4-Dimethylphenol        | 9.786  | 122  | 16846    | 2.219   | ng     | # 59     |
| 31) Naphthalene               | 10.657 | 128  | 4612462  | 167.467 | ng     | 100      |
| 32) Benzoic acid              | 9.992  | 122  | 756      | 7.268   | ng     | # 1      |
| 33) 4-Chloroaniline           | 10.657 | 127  | 615858   | 55.952  | ng     | # 36     |
| 35) Caprolactam               | 11.604 | 113  | 12201    | 5.509   | ng     | # 1      |
| 37) 2-Methylnaphthalene       | 12.269 | 142  | 2083691  | 112.216 | ng     | 98       |
| 38) 1-Methylnaphthalene       | 12.486 | 142  | 938518   | 54.003  | ng     | 100      |
| 46) 1,1'-Biphenyl             | 13.286 | 154  | 113432   | 4.043   | ng     | 99       |
| 53) 3-Nitroaniline            | 14.398 | 138  | 258      | 2.617   | ng     | # 80     |
| 57) 2,4-Dinitrotoluene        | 14.851 | 165  | 3168     | 3.059   | ng     | # 50     |
| 62) 4-Nitroaniline            | 15.510 | 138  | 172      | 4.175   | ng     | # 85     |
| 84) Bis(2-ethylhexyl)phtha... | 21.327 | 149  | 3971     | 2.661   | ng     | # 93     |

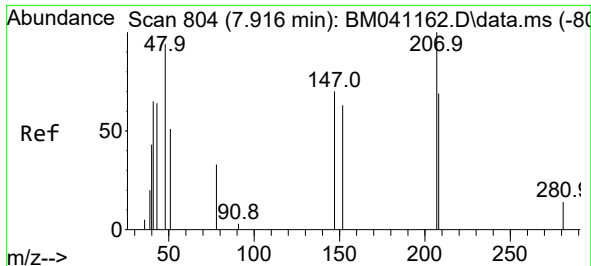
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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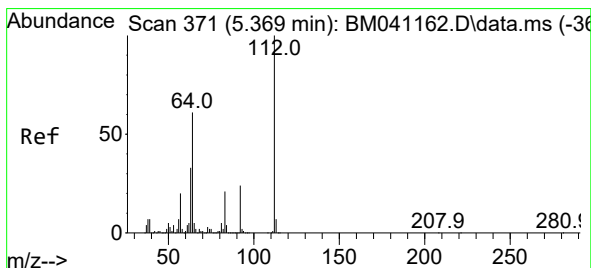
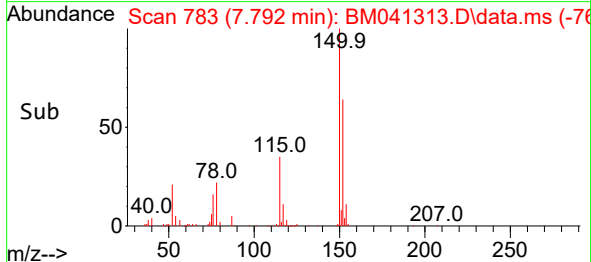
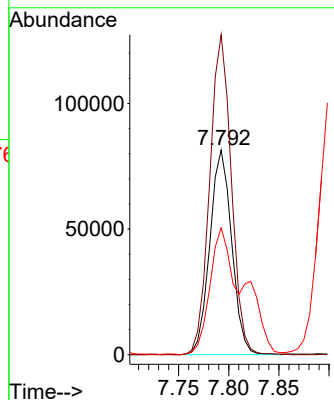
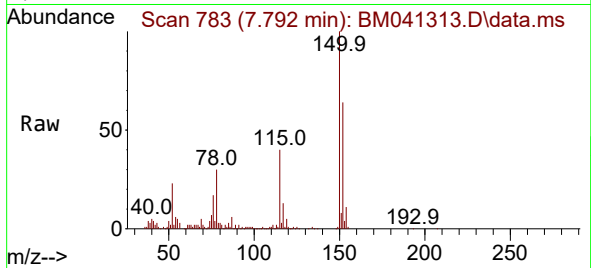




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.792 min Scan# 71  
Delta R.T. 0.005 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

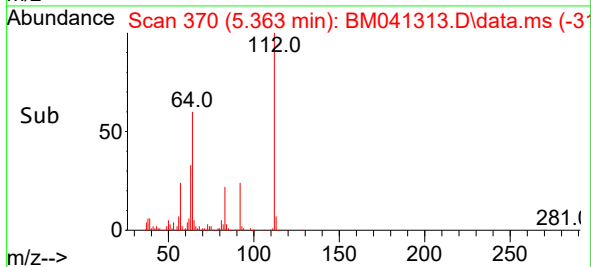
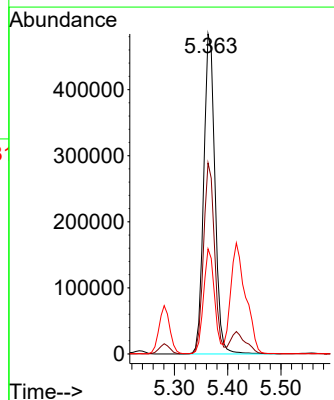
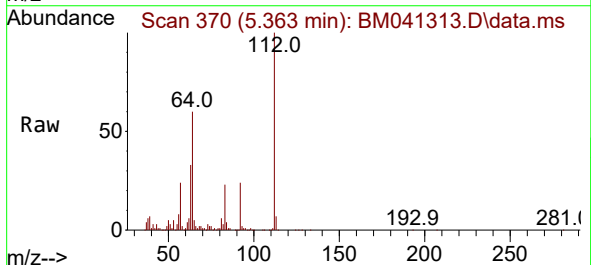
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ClientSampleId :  
MW-09

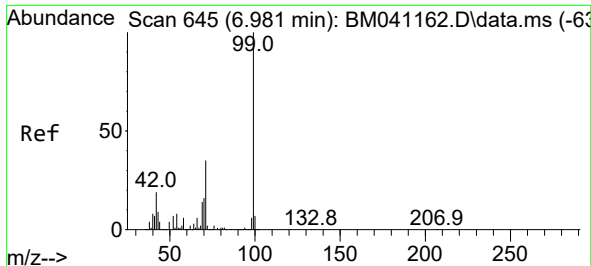
Tgt Ion:152 Resp: 123845  
Ion Ratio Lower Upper  
152 100  
150 156.3 125.5 188.3  
115 62.0 48.0 72.0



#5  
2-Fluorophenol  
Concen: 85.666 ng  
RT: 5.363 min Scan# 370  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion:112 Resp: 709852  
Ion Ratio Lower Upper  
112 100  
64 59.7 48.5 72.7  
63 32.8 26.5 39.7

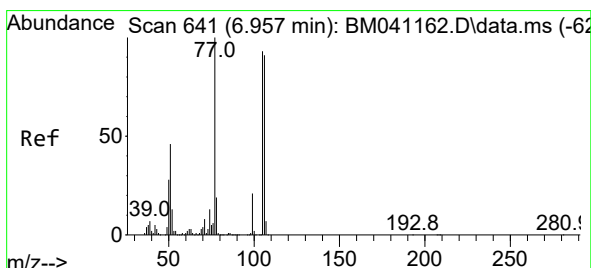
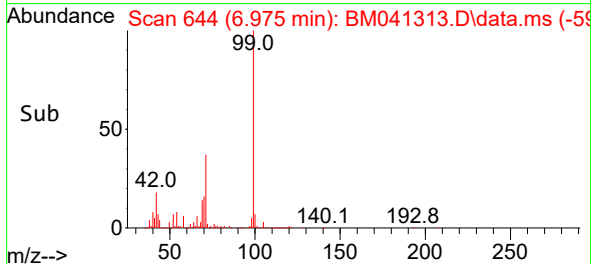
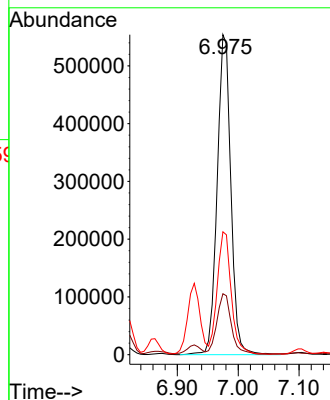
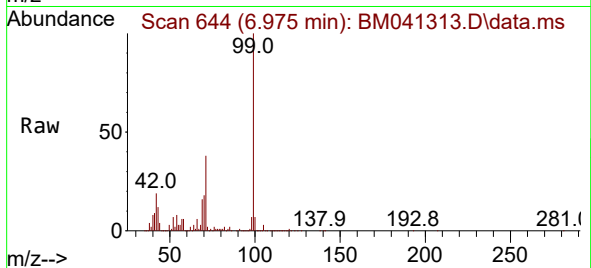




#7  
Phenol-d6  
Concen: 80.788 ng  
RT: 6.975 min Scan# 64  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

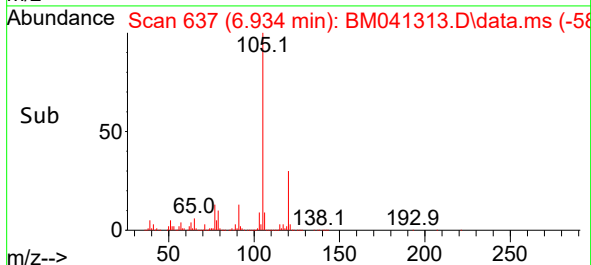
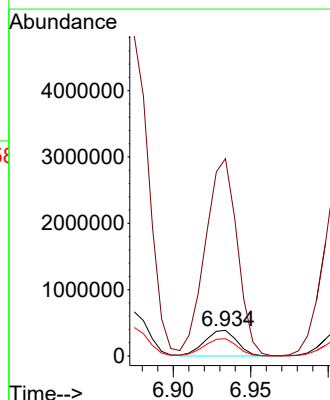
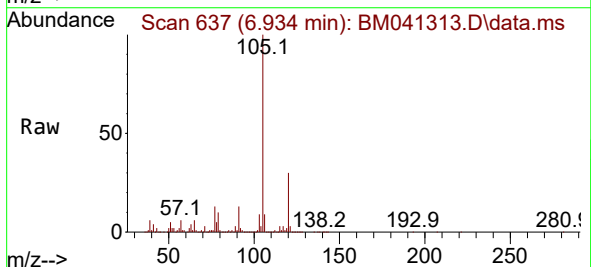
Instrument :  
BNA\_M  
ClientSampleId :  
MW-09

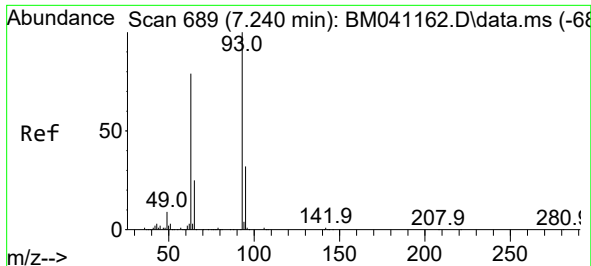
Tgt Ion: 99 Resp: 867744  
Ion Ratio Lower Upper  
99 100  
42 19.1 15.4 23.0  
71 38.4 28.2 42.4



#9  
Benzaldehyde  
Concen: 98.713 ng  
RT: 6.934 min Scan# 637  
Delta R.T. 0.000 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion: 77 Resp: 559461  
Ion Ratio Lower Upper  
77 100  
105 770.7 72.8 112.8#  
106 67.3 70.8 110.8#





#11

bis(2-Chloroethyl)ether

Concen: 2.046 ng

RT: 7.169 min Scan# 61

Delta R.T. -0.053 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

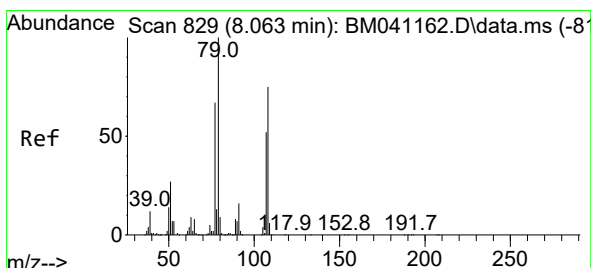
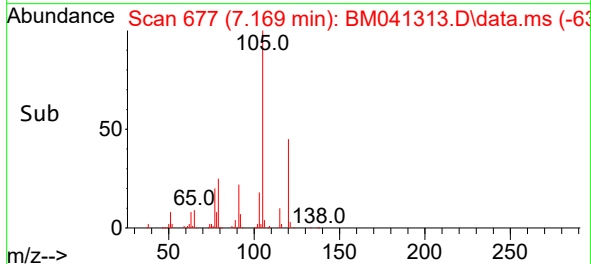
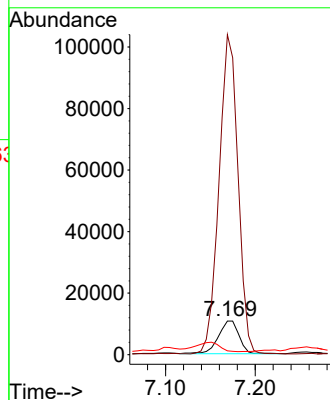
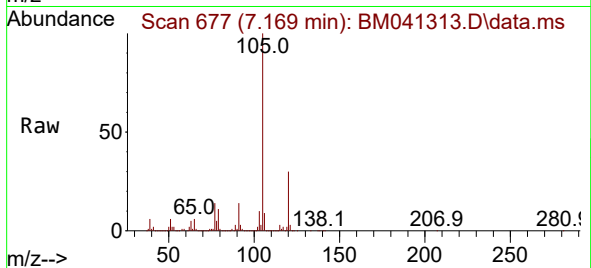
Tgt Ion: 93 Resp: 17177

Ion Ratio Lower Upper

93 100

63 950.1 58.8 98.8#

95 11.3 11.8 51.8#



#15

Benzyl Alcohol

Concen: 54.619 ng

RT: 7.904 min Scan# 802

Delta R.T. -0.135 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

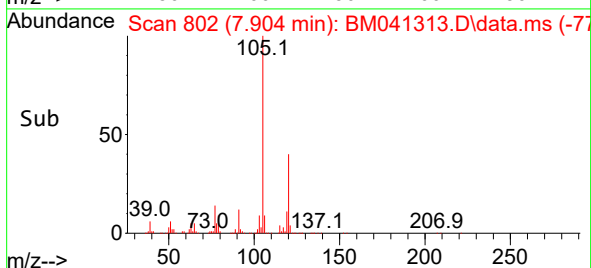
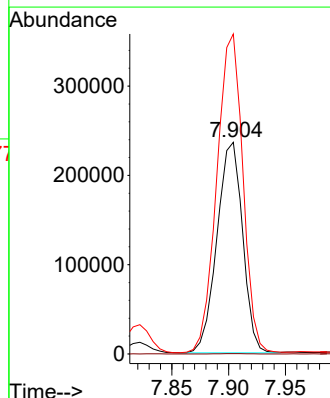
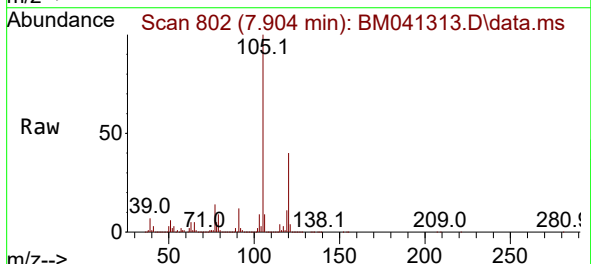
Tgt Ion: 79 Resp: 370482

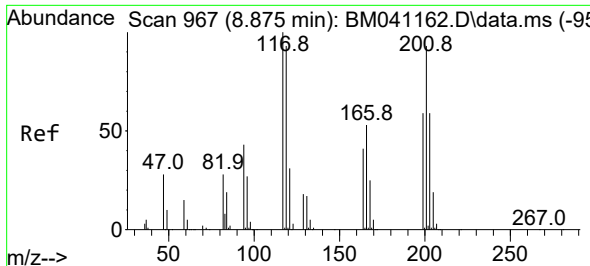
Ion Ratio Lower Upper

79 100

108 0.2 59.8 89.8#

77 151.2 53.8 80.6#

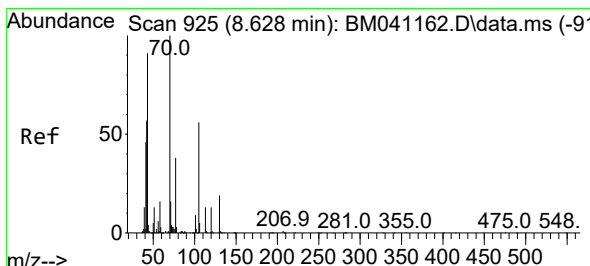
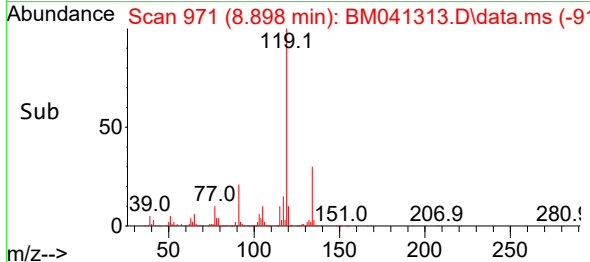
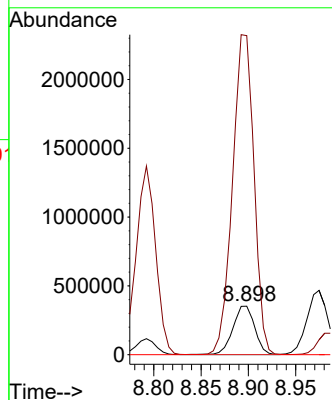
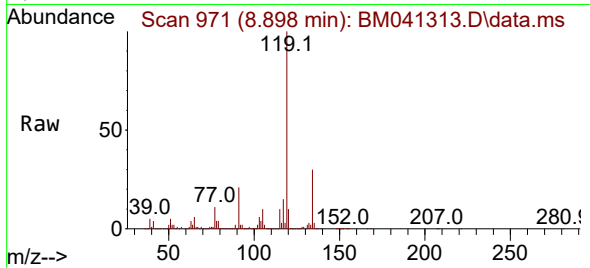




#18  
Hexachloroethane  
Concen: 171.258 ng  
RT: 8.898 min Scan# 91  
Delta R.T. 0.047 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

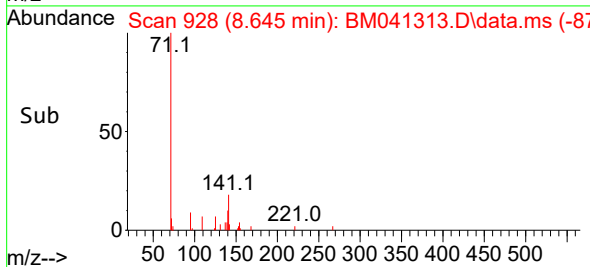
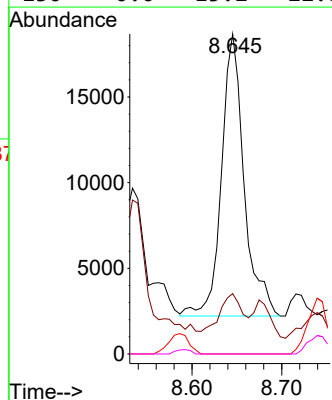
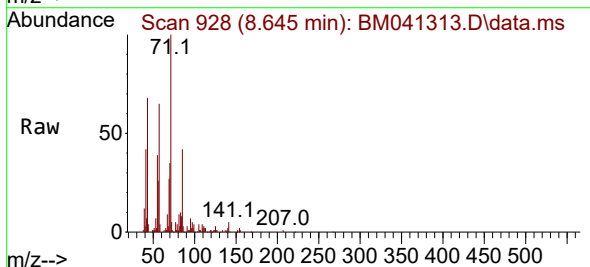
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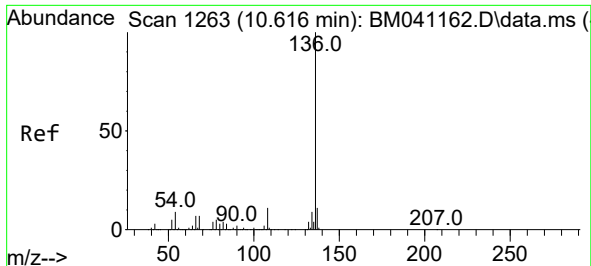
Tgt Ion:117 Resp: 564294  
Ion Ratio Lower Upper  
117 100  
119 657.6 74.2 111.4#  
201 0.0 74.5 111.7#



#19  
n-Nitroso-di-n-propylamine  
Concen: 4.423 ng  
RT: 8.645 min Scan# 928  
Delta R.T. 0.041 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion: 70 Resp: 28857  
Ion Ratio Lower Upper  
70 100  
42 18.8 45.8 68.8#  
101 0.0 7.4 11.0#  
130 0.0 15.2 22.8#

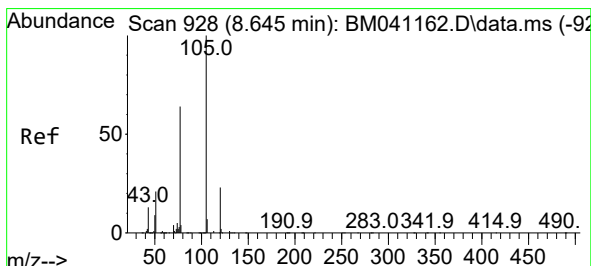
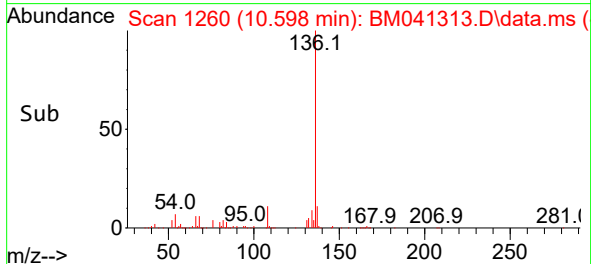
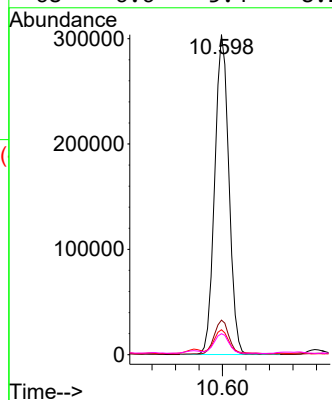
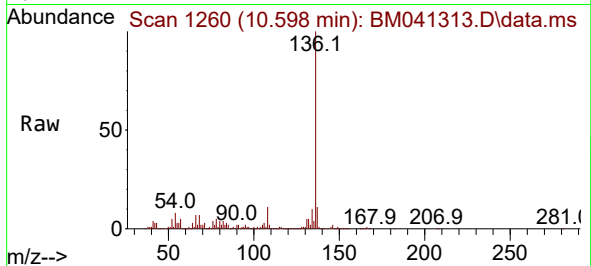




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.598 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

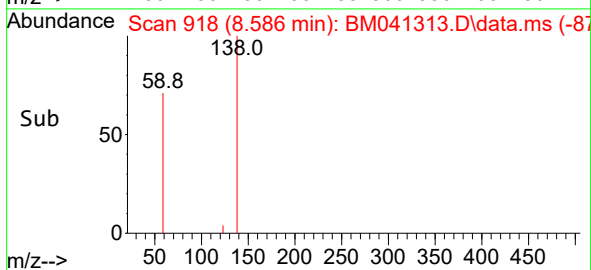
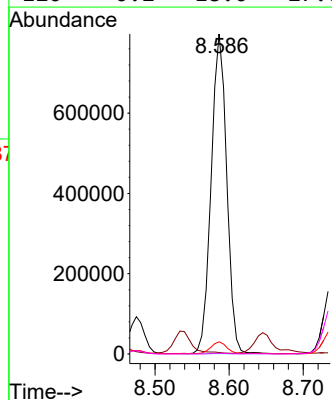
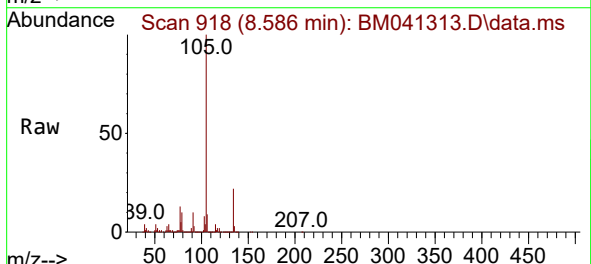
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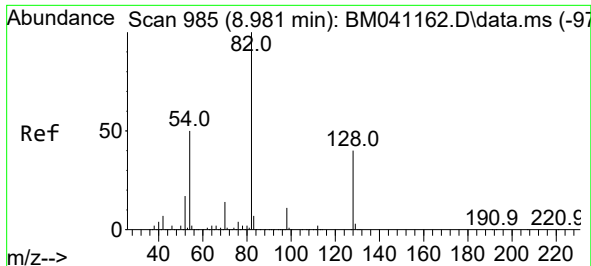
Tgt Ion:136 Resp: 507548  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.8 13.2  
54 7.8 6.9 10.3  
68 6.6 5.4 8.2



#22  
Acetophenone  
Concen: 86.417 ng  
RT: 8.586 min Scan# 918  
Delta R.T. -0.035 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion:105 Resp: 1161618  
Ion Ratio Lower Upper  
105 100  
71 0.4 1.2 1.8#  
51 3.8 22.0 33.0#  
120 0.2 18.0 27.0#





#23

Nitrobenzene-d5

Concen: 50.795 ng

RT: 8.975 min Scan# 984

Delta R.T. 0.012 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

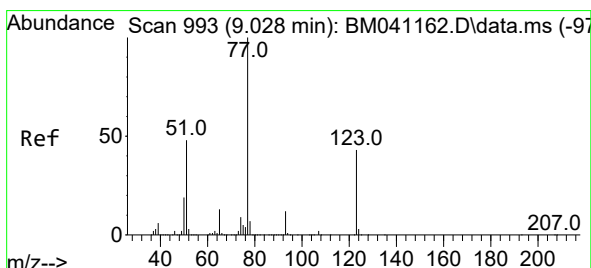
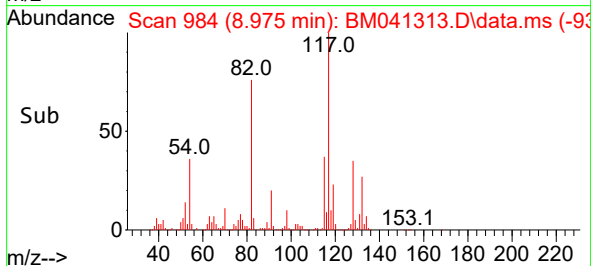
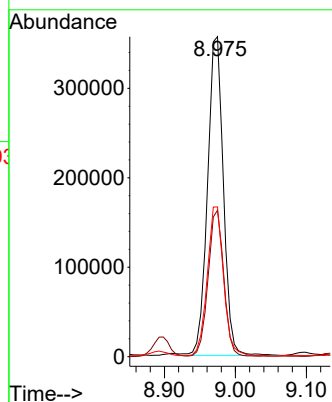
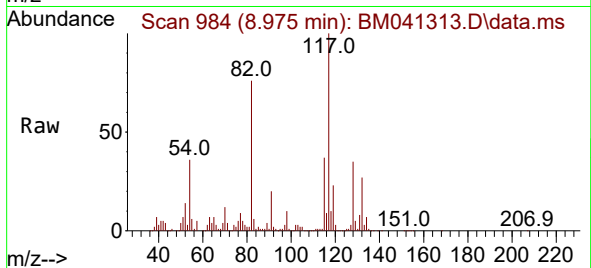
Tgt Ion: 82 Resp: 554373

Ion Ratio Lower Upper

82 100

128 45.7 31.8 47.6

54 46.8 40.1 60.1



#24

Nitrobenzene

Concen: 6.085 ng

RT: 8.975 min Scan# 984

Delta R.T. -0.029 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

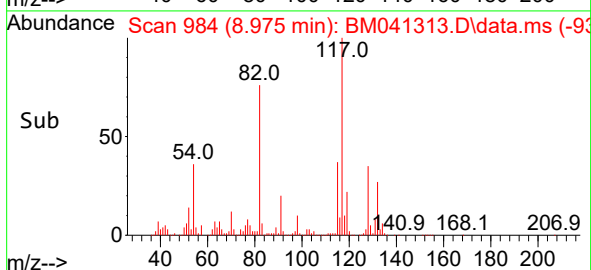
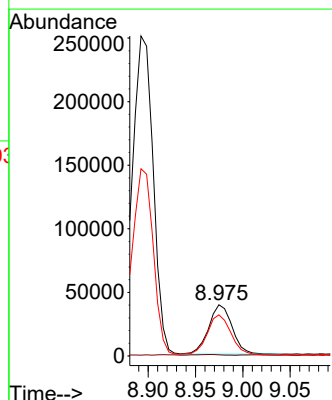
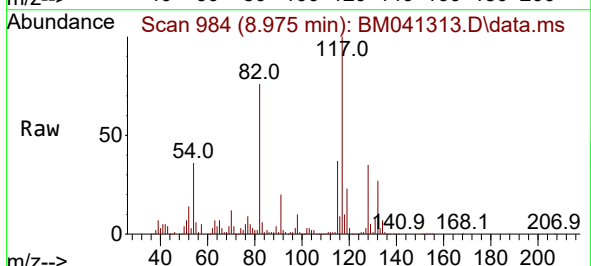
Tgt Ion: 77 Resp: 67160

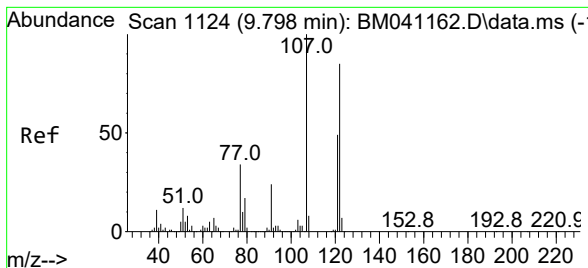
Ion Ratio Lower Upper

77 100

123 2.2 34.2 51.2#

65 80.2 10.7 16.1#

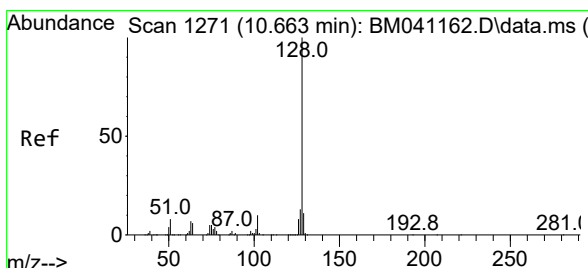
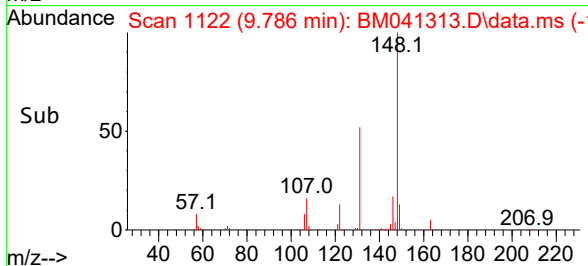
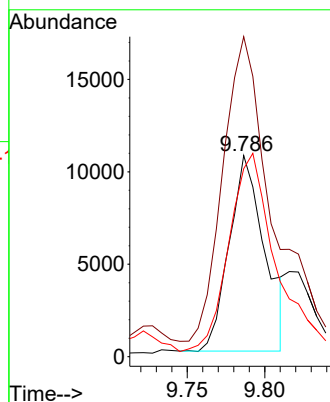
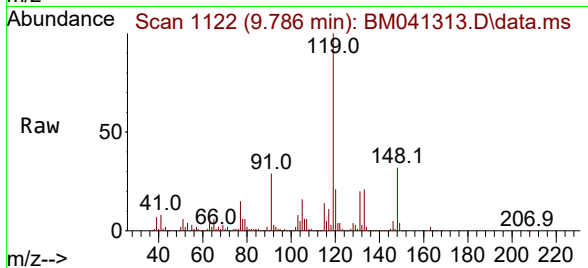




#27  
2,4-Dimethylphenol  
Concen: 2.219 ng  
RT: 9.786 min Scan# 1124  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

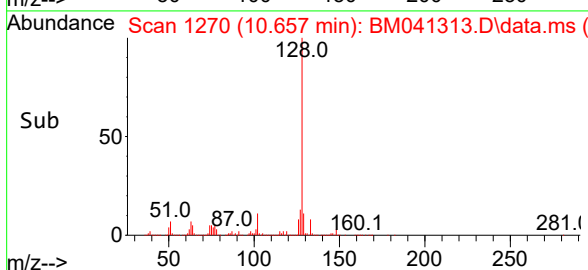
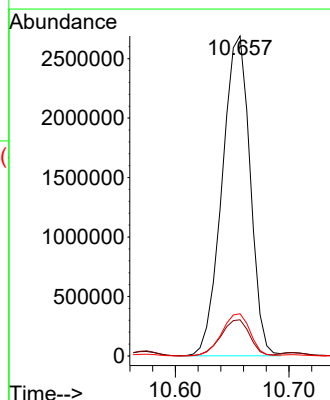
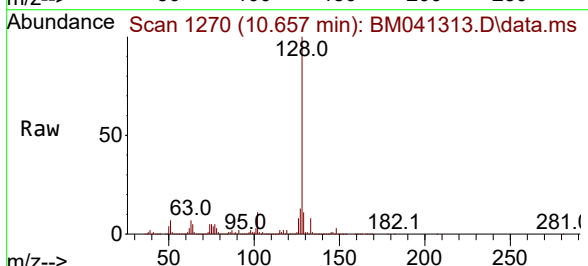
Instrument :  
BNA\_M  
ClientSampleId :  
MW-09

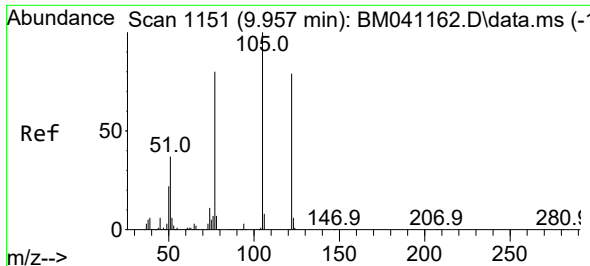
Tgt Ion:122 Resp: 16846  
Ion Ratio Lower Upper  
122 100  
107 159.1 94.3 141.5#  
121 93.5 45.8 68.8#



#31  
Naphthalene  
Concen: 167.467 ng  
RT: 10.657 min Scan# 1270  
Delta R.T. 0.012 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion:128 Resp: 4612462  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.0 13.4  
127 13.2 10.5 15.7





#32

Benzoic acid

Concen: 7.268 ng

RT: 9.992 min Scan# 1157

Delta R.T. 0.035 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

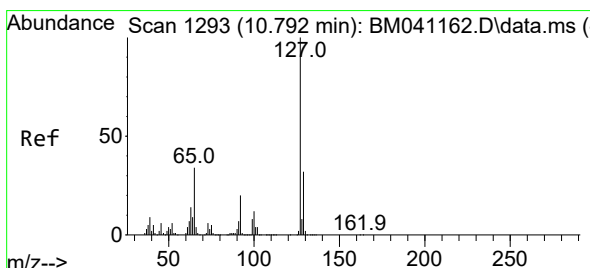
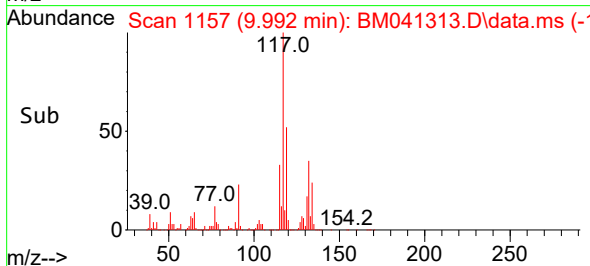
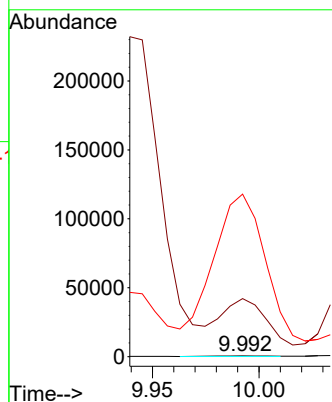
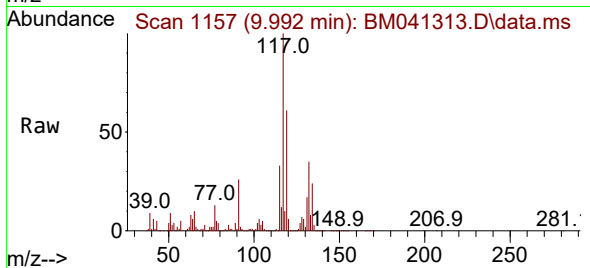
Tgt Ion:122 Resp: 756

Ion Ratio Lower Upper

122 100

105 7745.6 104.0 144.0#

77 21677.9 79.9 119.9#



#33

4-Chloroaniline

Concen: 55.952 ng

RT: 10.657 min Scan# 1270

Delta R.T. -0.112 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Tgt Ion:127 Resp: 615858

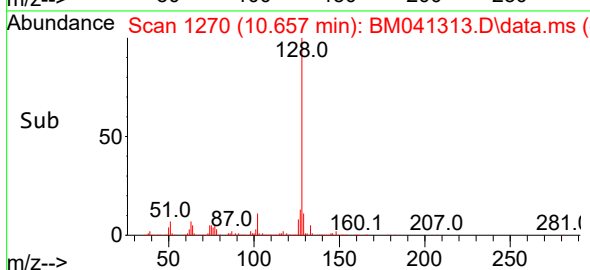
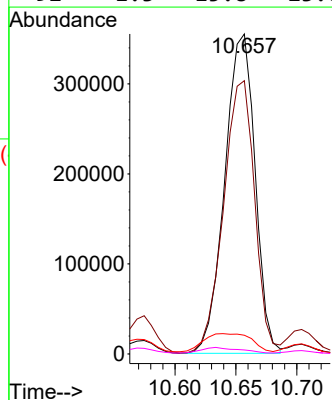
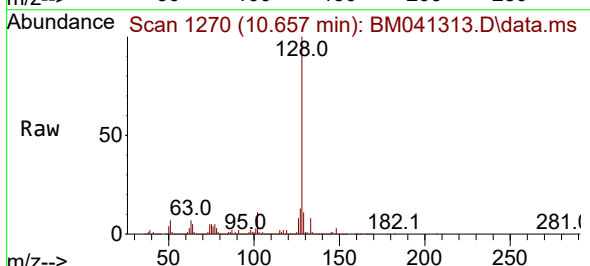
Ion Ratio Lower Upper

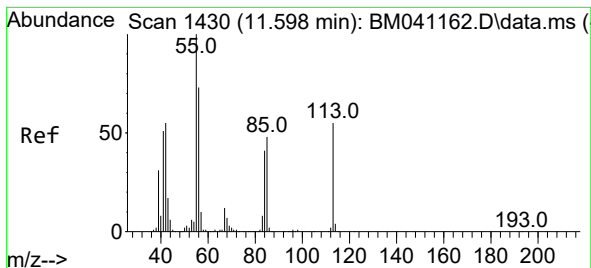
127 100

129 85.4 25.9 38.9#

65 5.8 26.9 40.3#

92 1.3 15.8 23.6#





#35

Caprolactam

Concen: 5.509 ng

RT: 11.604 min Scan# 1431

Delta R.T. 0.012 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

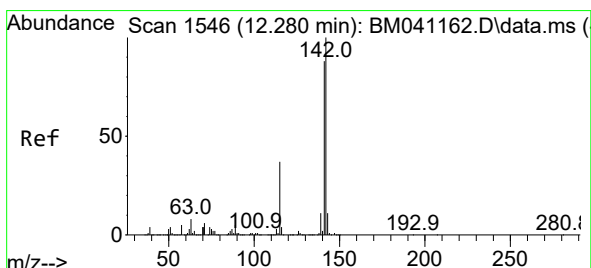
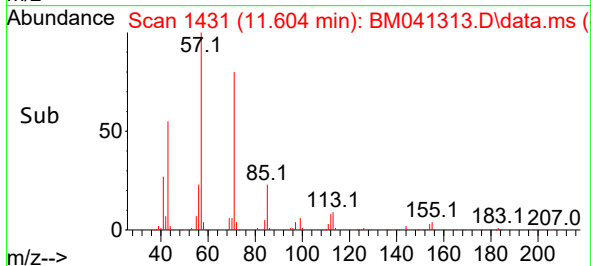
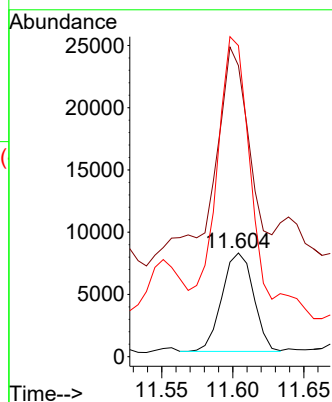
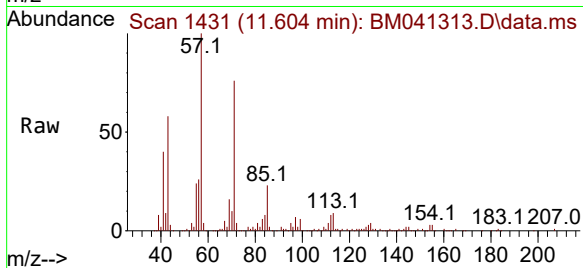
Tgt Ion:113 Resp: 12201

Ion Ratio Lower Upper

113 100

55 280.7 162.5 202.5#

56 299.9 114.1 154.1#



#37

2-Methylnaphthalene

Concen: 112.216 ng

RT: 12.269 min Scan# 1544

Delta R.T. 0.006 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

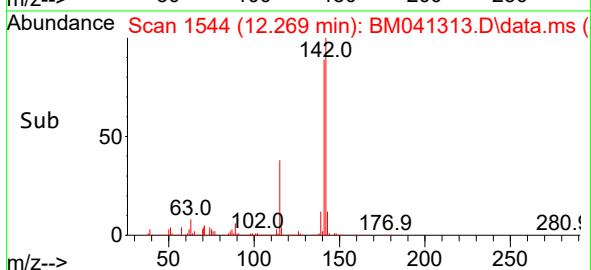
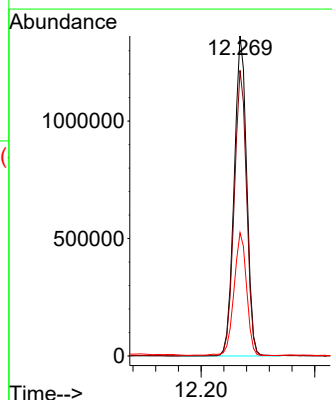
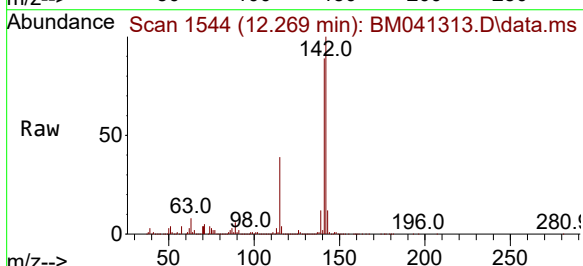
Tgt Ion:142 Resp: 2083691

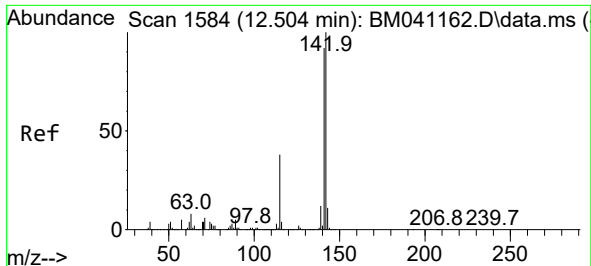
Ion Ratio Lower Upper

142 100

141 89.3 70.7 106.1

115 38.5 29.3 43.9

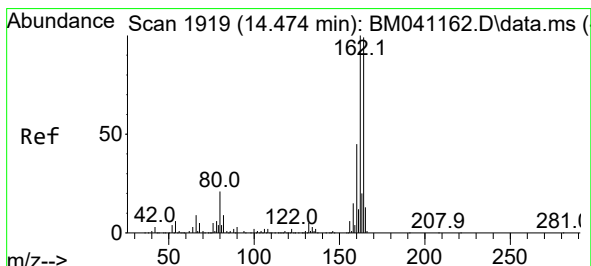
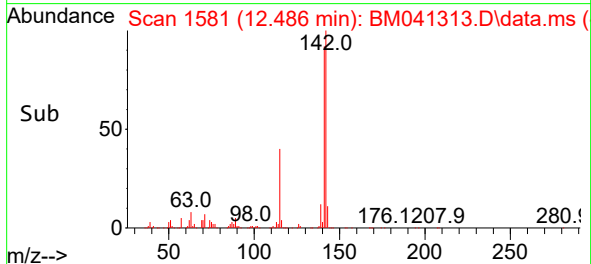
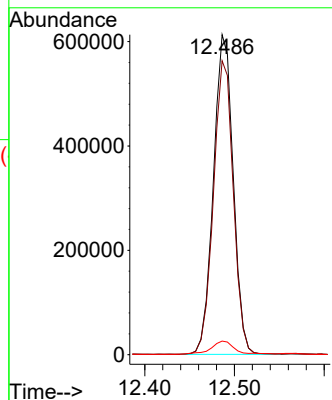
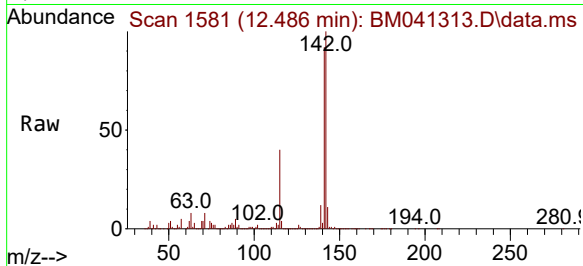




#38  
1-Methylnaphthalene  
Concen: 54.003 ng  
RT: 12.486 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

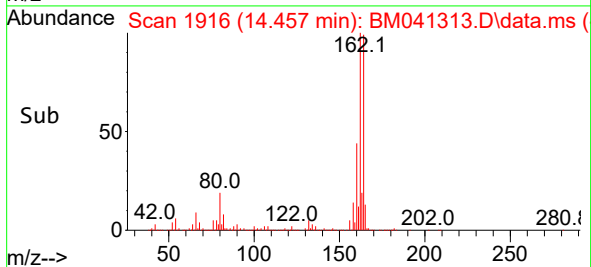
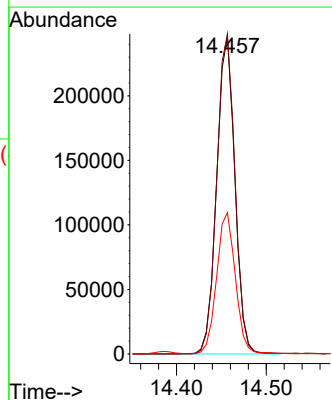
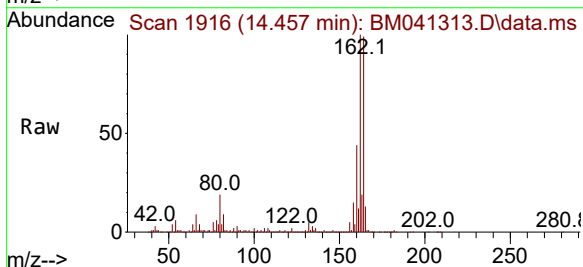
Instrument :  
BNA\_M  
ClientSampleId :  
MW-09

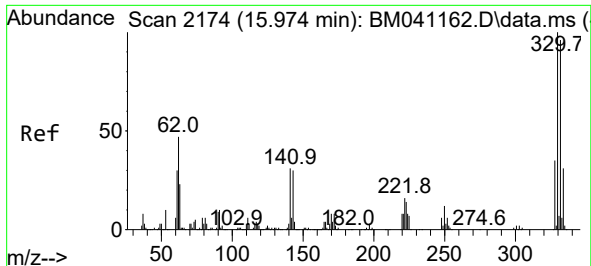
Tgt Ion:142 Resp: 938518  
Ion Ratio Lower Upper  
142 100  
141 91.9 73.4 110.2  
116 4.2 3.2 4.8



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.457 min Scan# 1916  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion:164 Resp: 346102  
Ion Ratio Lower Upper  
164 100  
162 100.8 80.4 120.6  
160 44.5 36.2 54.2





#42

2,4,6-Tribromophenol

Concen: 91.139 ng

RT: 15.957 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

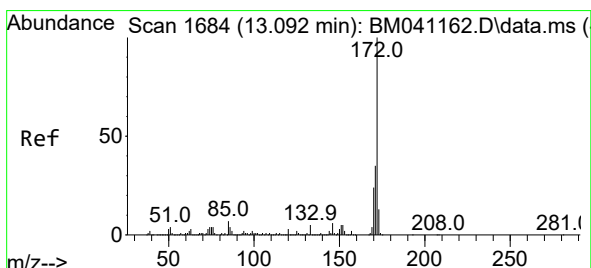
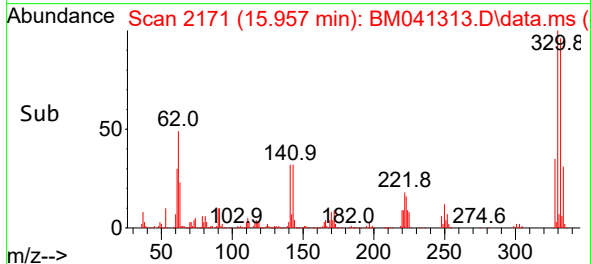
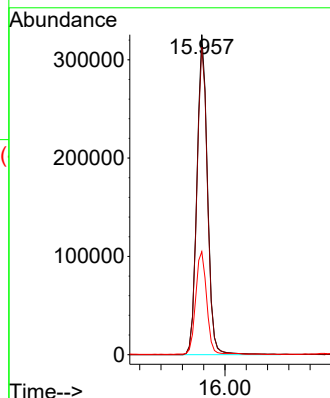
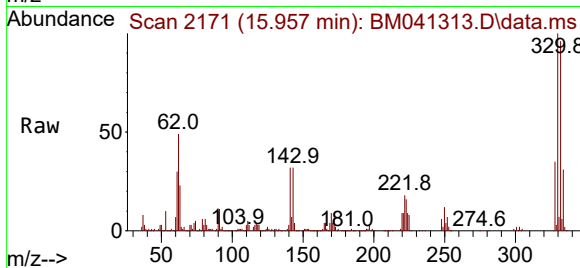
Tgt Ion:330 Resp: 446165

Ion Ratio Lower Upper

330 100

332 97.1 77.7 116.5

141 33.2 28.3 42.5



#45

2-Fluorobiphenyl

Concen: 45.055 ng

RT: 13.074 min Scan# 1681

Delta R.T. 0.006 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

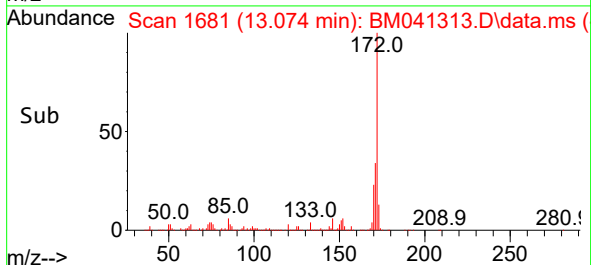
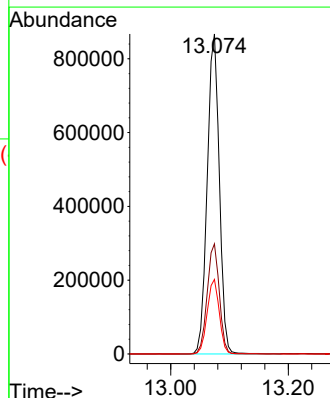
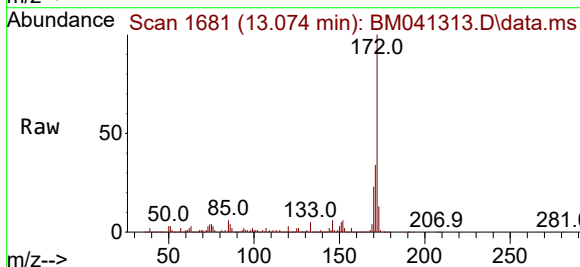
Tgt Ion:172 Resp: 1234416

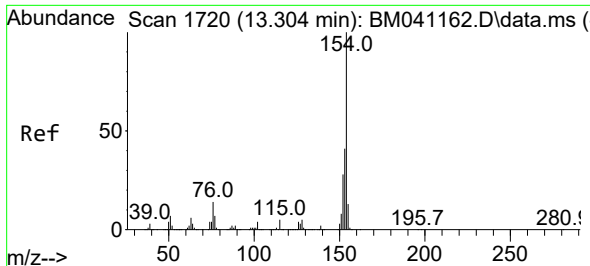
Ion Ratio Lower Upper

172 100

171 34.4 28.1 42.1

170 23.3 18.9 28.3

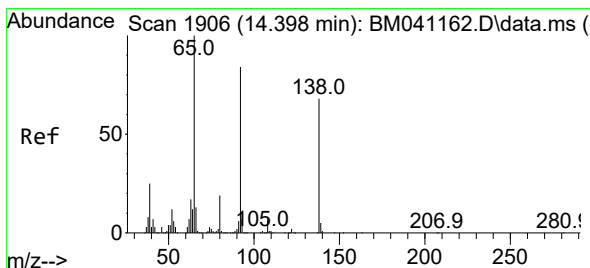
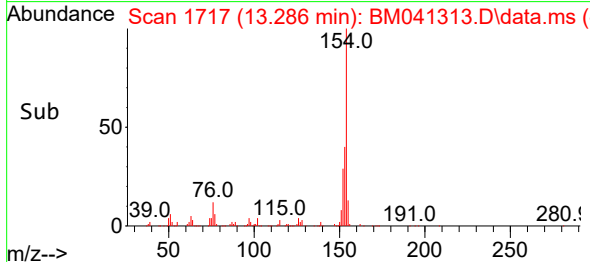
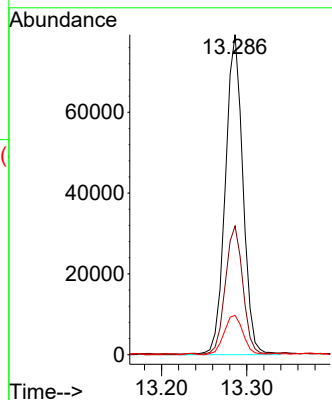
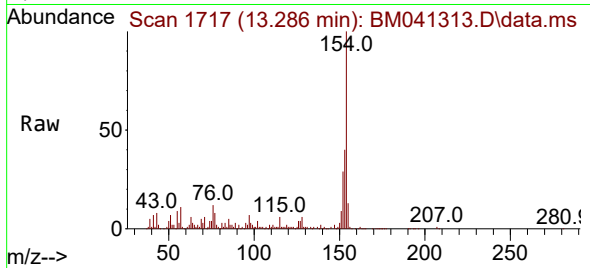




#46  
1,1'-Biphenyl  
Concen: 4.043 ng  
RT: 13.286 min Scan# 1717  
Delta R.T. 0.006 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

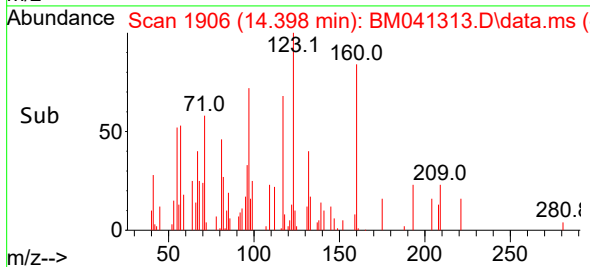
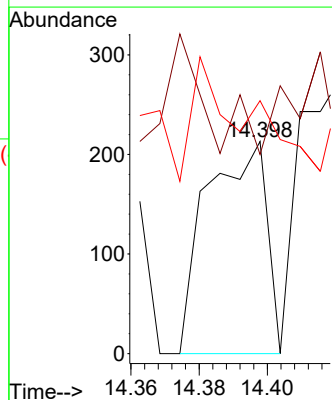
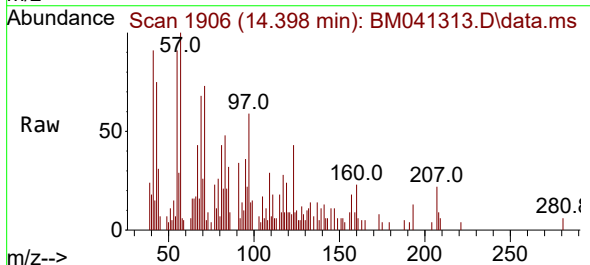
Instrument :  
BNA\_M  
ClientSampleId :  
MW-09

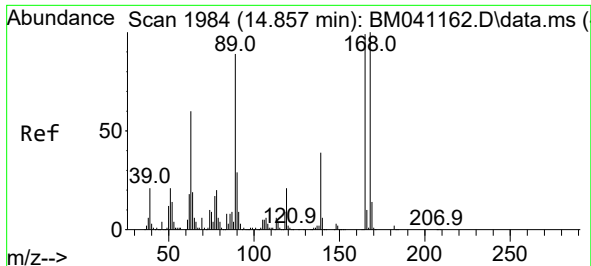
Tgt Ion:154 Resp: 113432  
Ion Ratio Lower Upper  
154 100  
153 40.2 20.5 60.5  
76 12.3 0.0 34.1



#53  
3-Nitroaniline  
Concen: 2.617 ng  
RT: 14.398 min Scan# 1906  
Delta R.T. 0.012 min  
Lab File: BM041313.D  
Acq: 07 Aug 2023 15:35

Tgt Ion:138 Resp: 258  
Ion Ratio Lower Upper  
138 100  
108 93.9 7.6 11.4#  
92 119.2 98.9 148.3





#57

2,4-Dinitrotoluene

Concen: 3.059 ng

RT: 14.851 min Scan# 1984

Delta R.T. 0.000 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

Tgt Ion:165 Resp: 3168

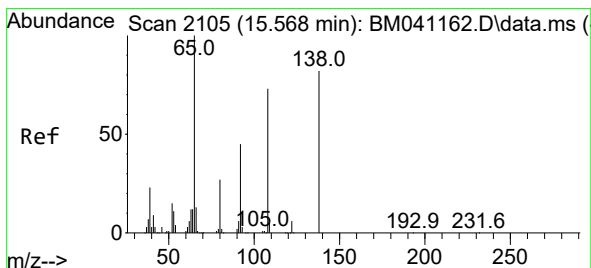
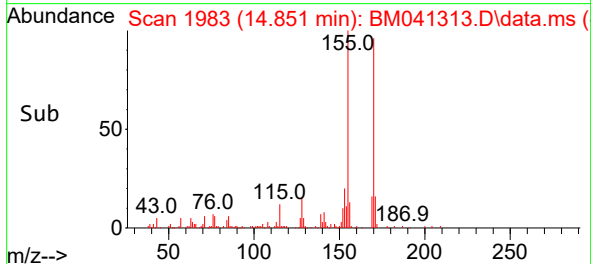
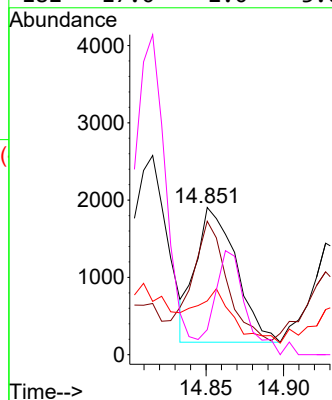
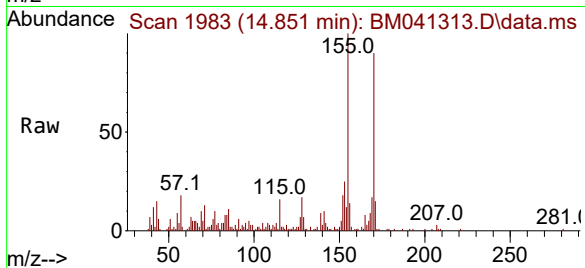
Ion Ratio Lower Upper

165 100

63 90.7 48.3 72.5#

89 36.5 71.8 107.8#

182 17.0 2.0 3.0#



#62

4-Nitroaniline

Concen: 4.175 ng

RT: 15.510 min Scan# 2095

Delta R.T. -0.047 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

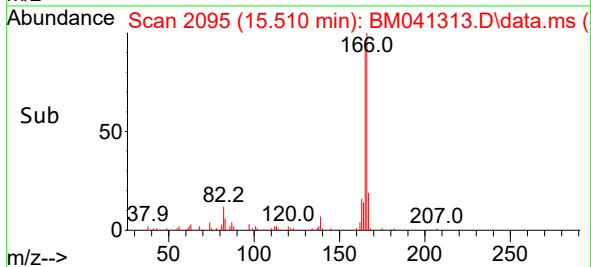
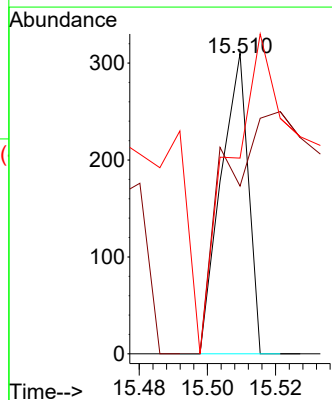
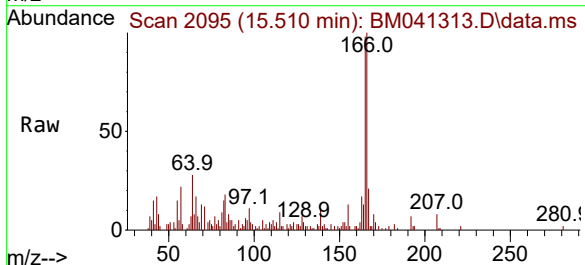
Tgt Ion:138 Resp: 172

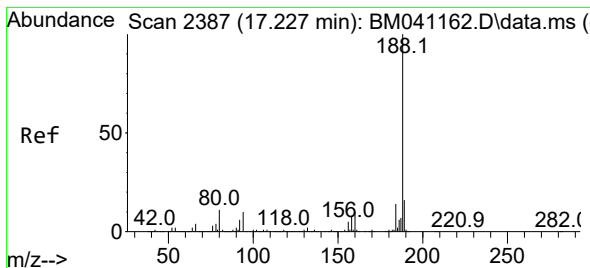
Ion Ratio Lower Upper

138 100

92 55.8 35.1 75.1

108 65.2 67.8 107.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

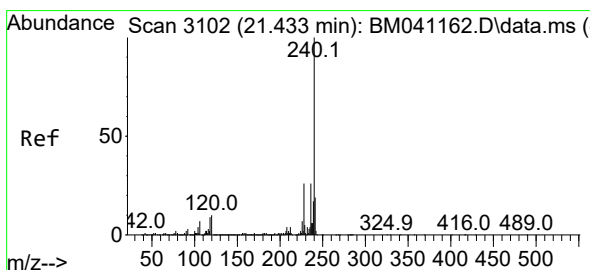
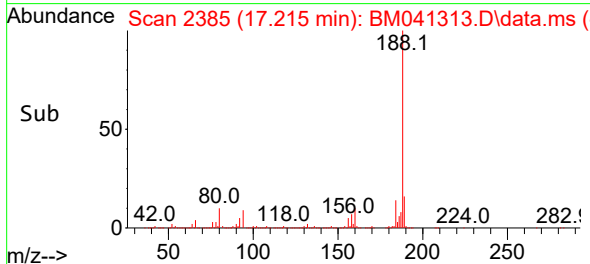
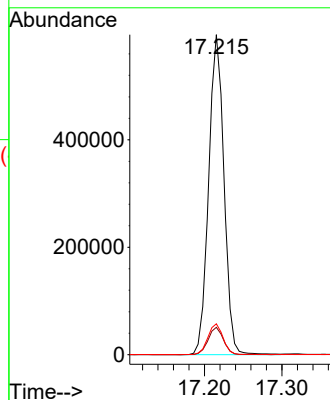
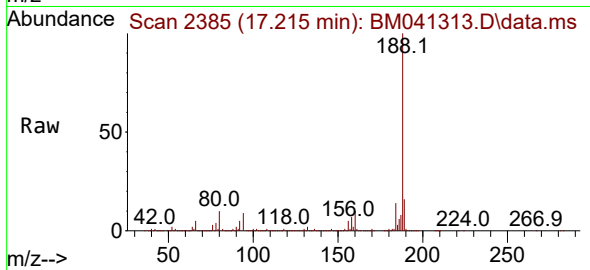
Tgt Ion:188 Resp: 817172

Ion Ratio Lower Upper

188 100

94 8.5 8.2 12.2

80 9.7 8.6 13.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.421 min Scan# 3100

Delta R.T. 0.000 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

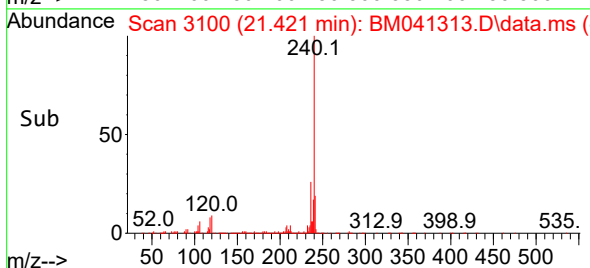
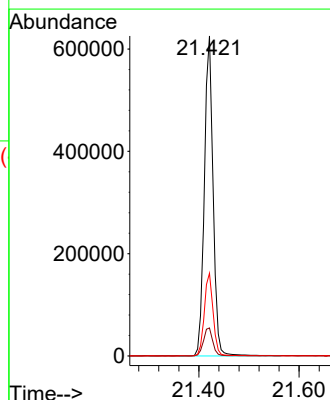
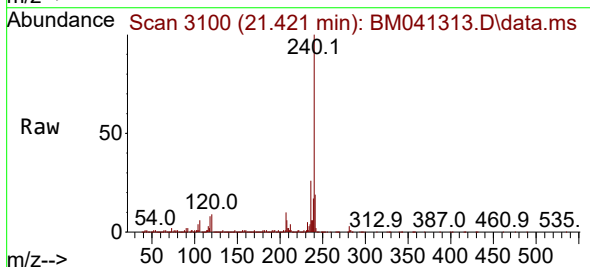
Tgt Ion:240 Resp: 758873

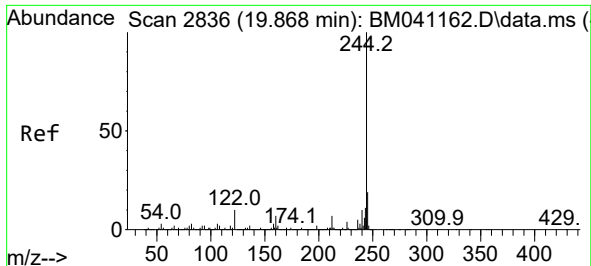
Ion Ratio Lower Upper

240 100

120 8.7 8.3 12.5

236 25.9 20.6 30.8

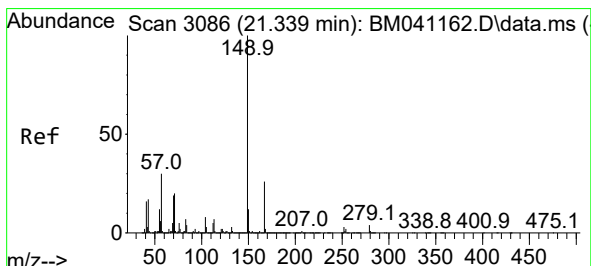
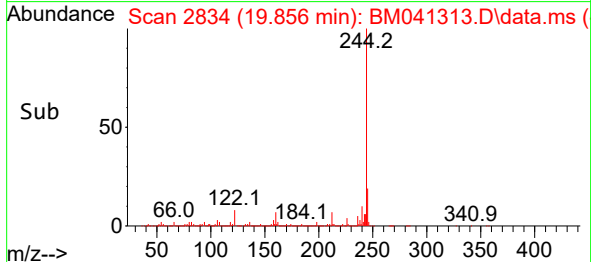
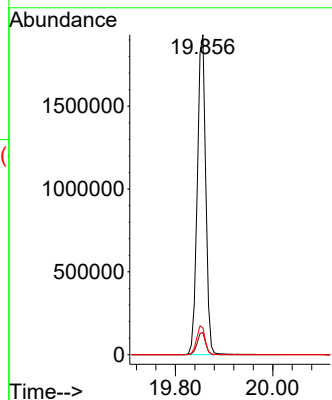
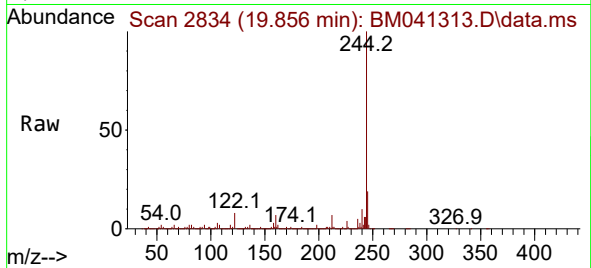




#79  
 Terphenyl-d14  
 Concen: 55.533 ng  
 RT: 19.856 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: BM041313.D  
 Acq: 07 Aug 2023 15:35

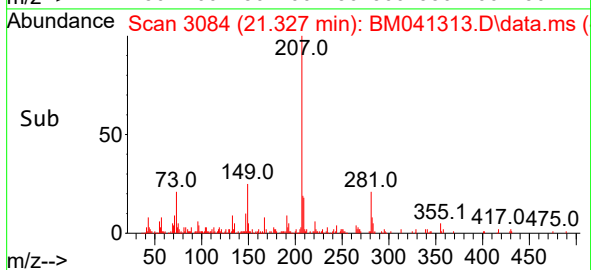
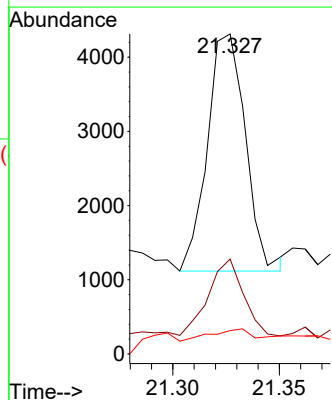
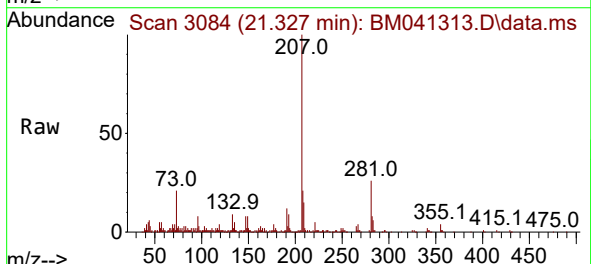
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MW-09

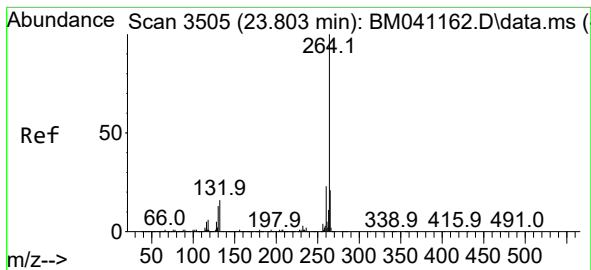
Tgt Ion:244 Resp: 2330825  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.4 8.2  
 122 8.4 7.8 11.6



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 2.661 ng  
 RT: 21.327 min Scan# 3084  
 Delta R.T. 0.000 min  
 Lab File: BM041313.D  
 Acq: 07 Aug 2023 15:35

Tgt Ion:149 Resp: 3971  
 Ion Ratio Lower Upper  
 149 100  
 167 29.7 21.0 31.6  
 279 7.3 3.1 4.7#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.791 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM041313.D

Acq: 07 Aug 2023 15:35

Instrument :

BNA\_M

ClientSampleId :

MW-09

Tgt Ion:264 Resp: 755427

Ion Ratio Lower Upper

264 100

260 23.3 18.5 27.7

265 21.8 17.4 26.0

