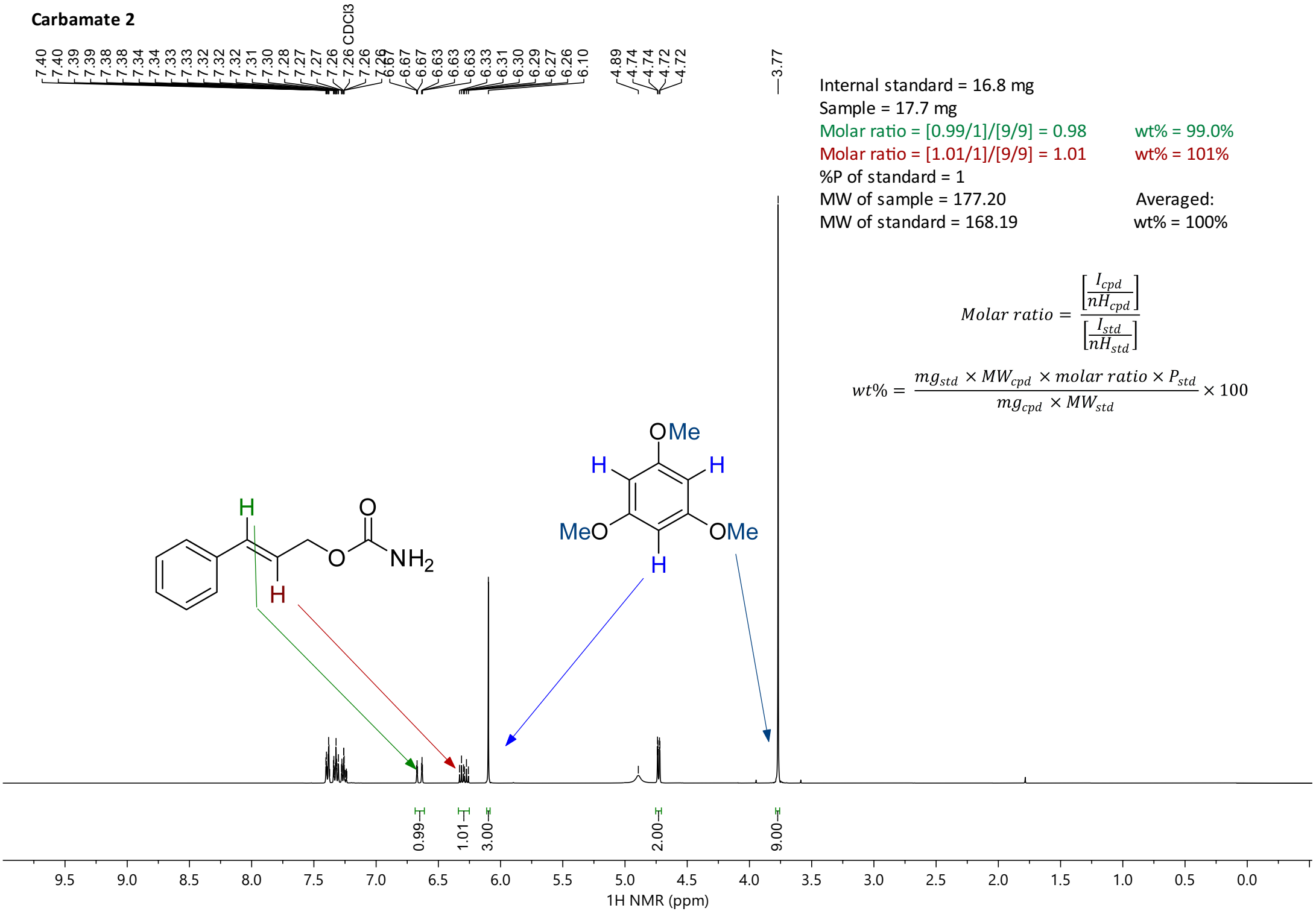
Carbamate 2



Internal standard = 16.8 mg
Sample = 17.7 mg
Molar ratio = [0.99/1]/[9/9] = 0.98 wt% = 99.0%
Molar ratio = [1.01/1]/[9/9] = 1.01 wt% = 101%
%P of standard = 1
MW of sample = 177.20 Averaged:
MW of standard = 168.19 wt% = 100%

$$Molar\ ratio = \frac{\left[\frac{I_{cpd}}{nH_{cpd}}\right]}{\left[\frac{I_{std}}{nH_{std}}\right]}$$

$$wt\% = \frac{mg_{std} \times MW_{cpd} \times molar\ ratio \times P_{std}}{mg_{cpd} \times MW_{std}} \times 100$$