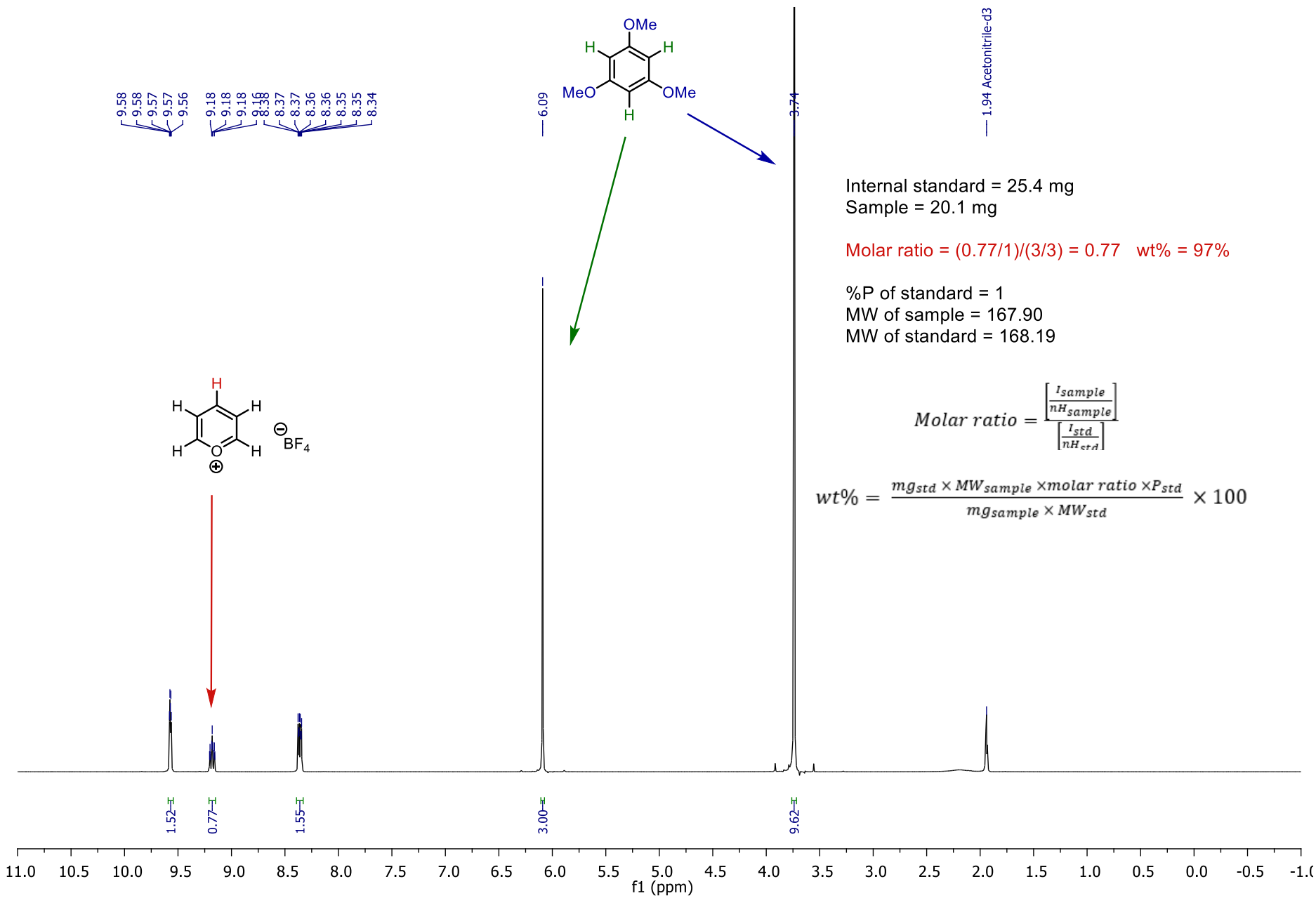


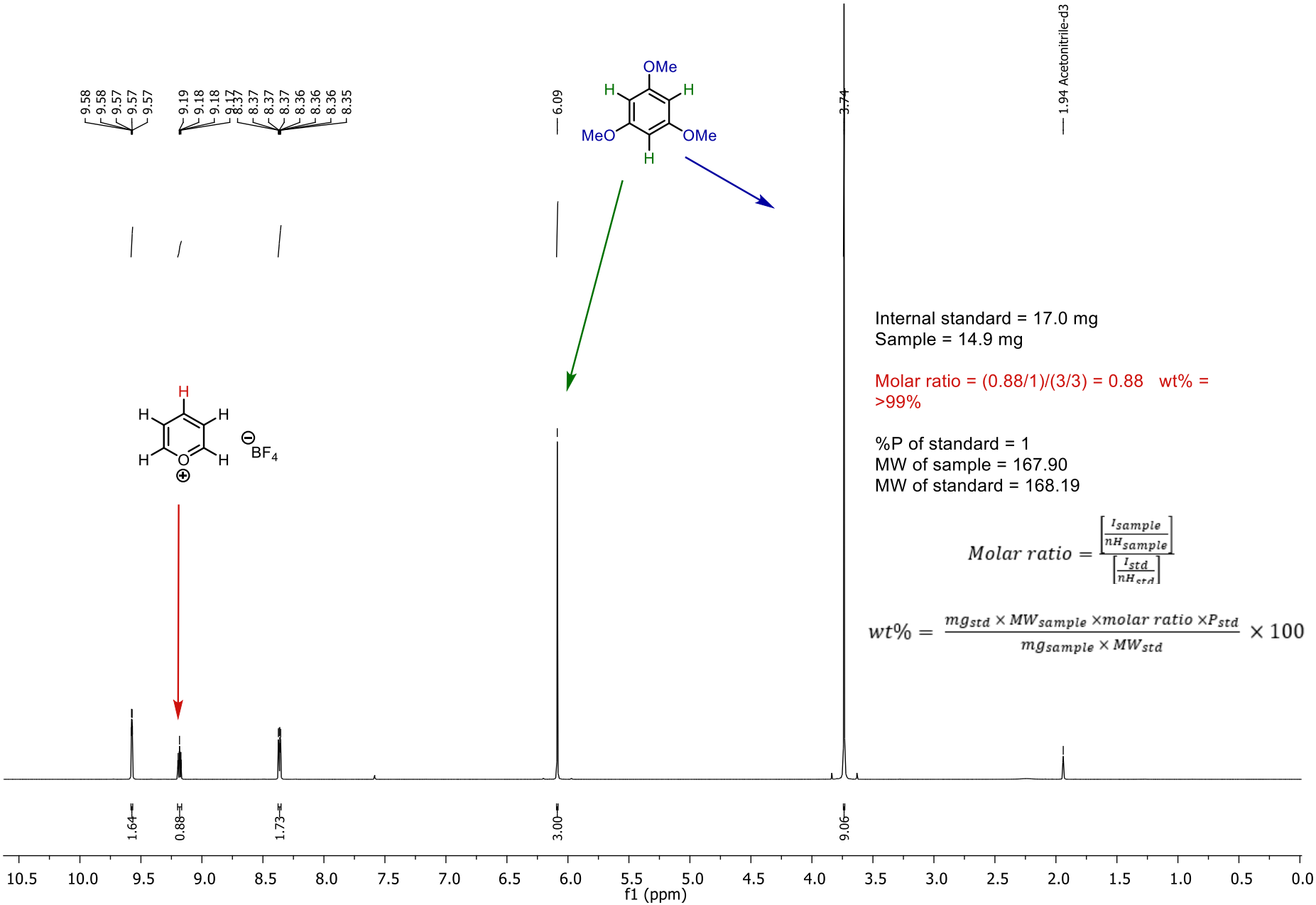
Internal standard = 25.4 mg
Sample = 20.1 mg

Molar ratio = (0.77/1)/(3/3) = 0.77 wt% = 97%

%P of standard = 1
MW of sample = 167.90
MW of standard = 168.19

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

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



Internal standard = 17.0 mg
Sample = 14.9 mg

Molar ratio = (0.88/1)/(3/3) = 0.88 wt% = >99%

%P of standard = 1
MW of sample = 167.90
MW of standard = 168.19

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

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