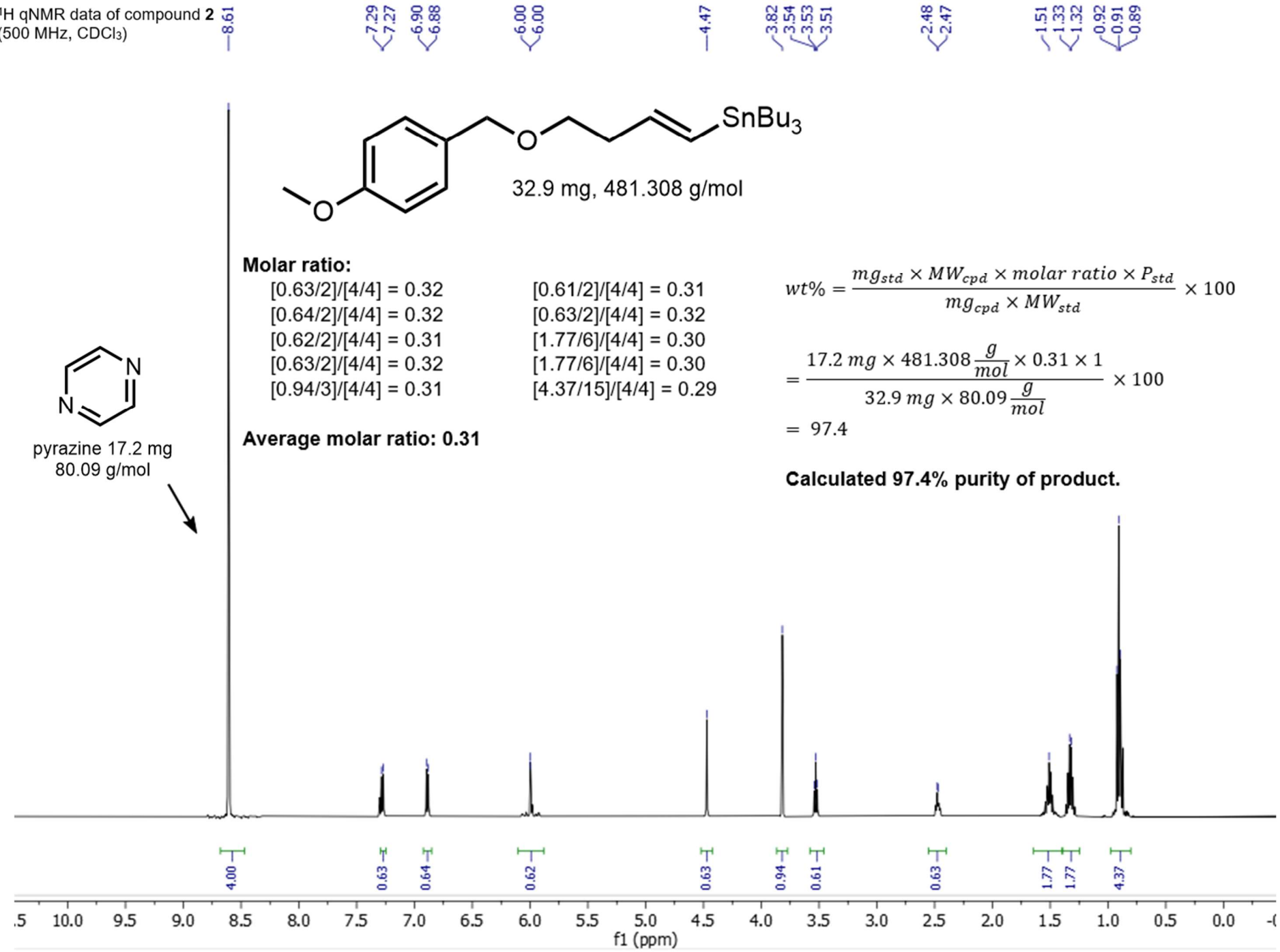
^{1}H qNMR data of compound **2**
(500 MHz, $CDCl_3$)



Molar ratio:

[0.63/2]/[4/4] = 0.32	[0.61/2]/[4/4] = 0.31
[0.64/2]/[4/4] = 0.32	[0.63/2]/[4/4] = 0.32
[0.62/2]/[4/4] = 0.31	[1.77/6]/[4/4] = 0.30
[0.63/2]/[4/4] = 0.32	[1.77/6]/[4/4] = 0.30
[0.94/3]/[4/4] = 0.31	[4.37/15]/[4/4] = 0.29

Average molar ratio: 0.31

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

$$= \frac{17.2\ mg \times 481.308 \frac{g}{mol} \times 0.31 \times 1}{32.9\ mg \times 80.09 \frac{g}{mol}} \times 100$$

$$= 97.4$$

Calculated 97.4% purity of product.