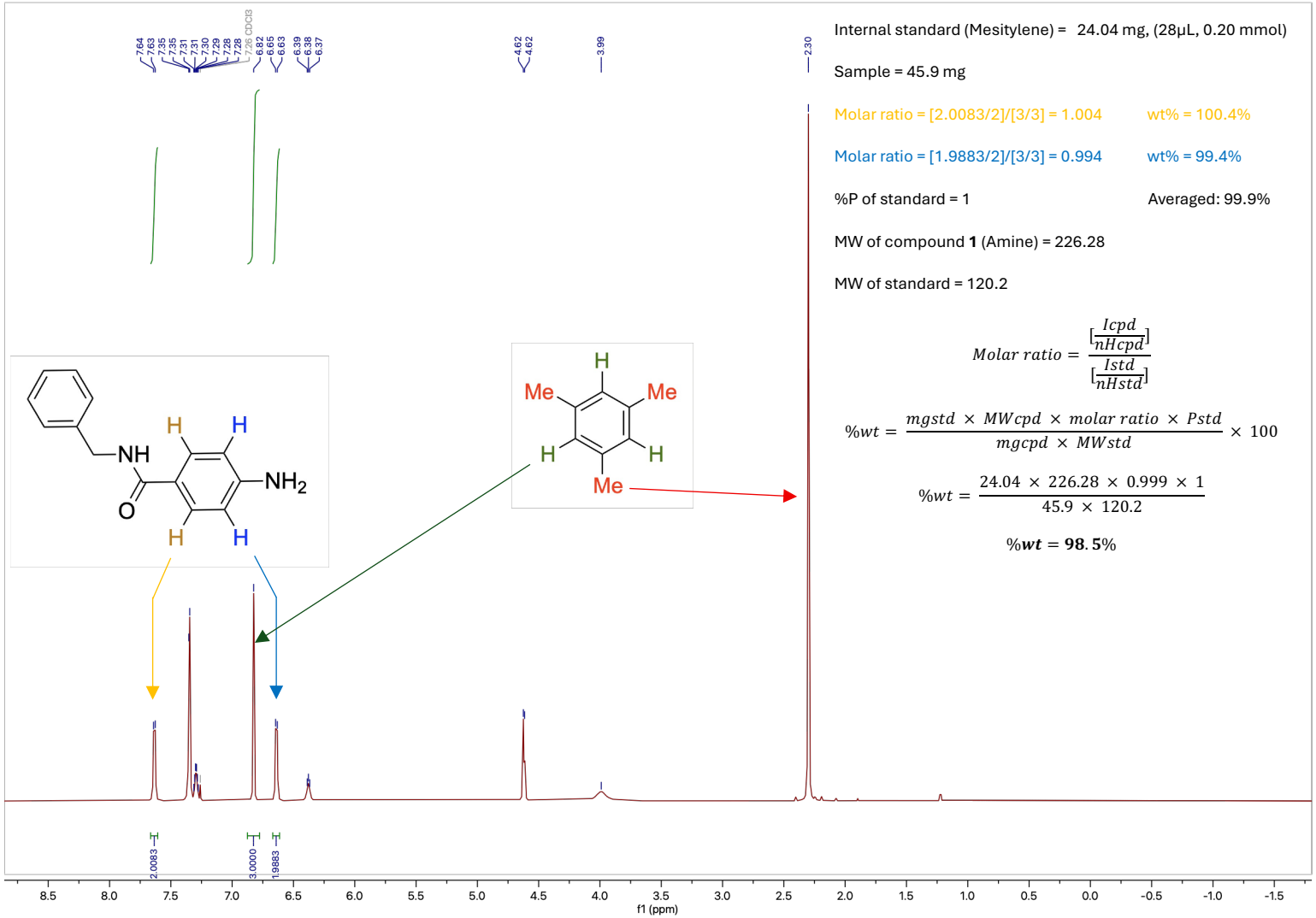
^{1}H qNMR ($CDCl_3$, 500 MHz) of compound **1**



Internal standard (Mesitylene) = 24.04 mg, (28µL, 0.20 mmol)

Sample = 45.9 mg

Molar ratio = [2.0083/2]/[3/3] = 1.004 wt% = 100.4%

Molar ratio = [1.9883/2]/[3/3] = 0.994 wt% = 99.4%

%P of standard = 1 Averaged: 99.9%

MW of compound **1** (Amine) = 226.28

MW of standard = 120.2

$$Molar\ ratio = \frac{[\frac{Icpd}{nHcpd}]}{[\frac{Istd}{nHstd}]}$$

$$\%wt = \frac{mgstd \times MWcpd \times molar\ ratio \times Pstd}{mgcpd \times MWstd} \times 100$$

$$\%wt = \frac{24.04 \times 226.28 \times 0.999 \times 1}{45.9 \times 120.2}$$

$$\%\boldsymbol{wt} = \mathbf{98.5}\%$$