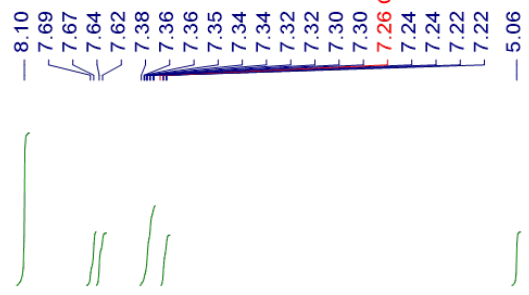


¹H NMR, CDCl₃, 400 MHz (with dimethyl terephthalate internal standard)



$$I_{\text{Analyte}} = 1.42 + 1.37 + 2.08 + 1.32 = 6.19$$

$$I_{\text{CRM}} = 4.00$$

$$P = \frac{I_{\text{Analyte}}}{I_{\text{CRM}}} \cdot \frac{N_{\text{CRM}}}{N_{\text{Analyte}}} \cdot \frac{M_{\text{Analyte}}}{M_{\text{CRM}}} \cdot \frac{m_{\text{CRM}}}{m_{\text{Sample}}}$$

$$= \frac{6.19}{4.00} \cdot \frac{4}{9} \cdot \frac{329.70 \text{ g/mol}}{194.18 \text{ g/mol}} \cdot \frac{11.0 \text{ mg}}{13.2 \text{ mg}} = 97\%$$

