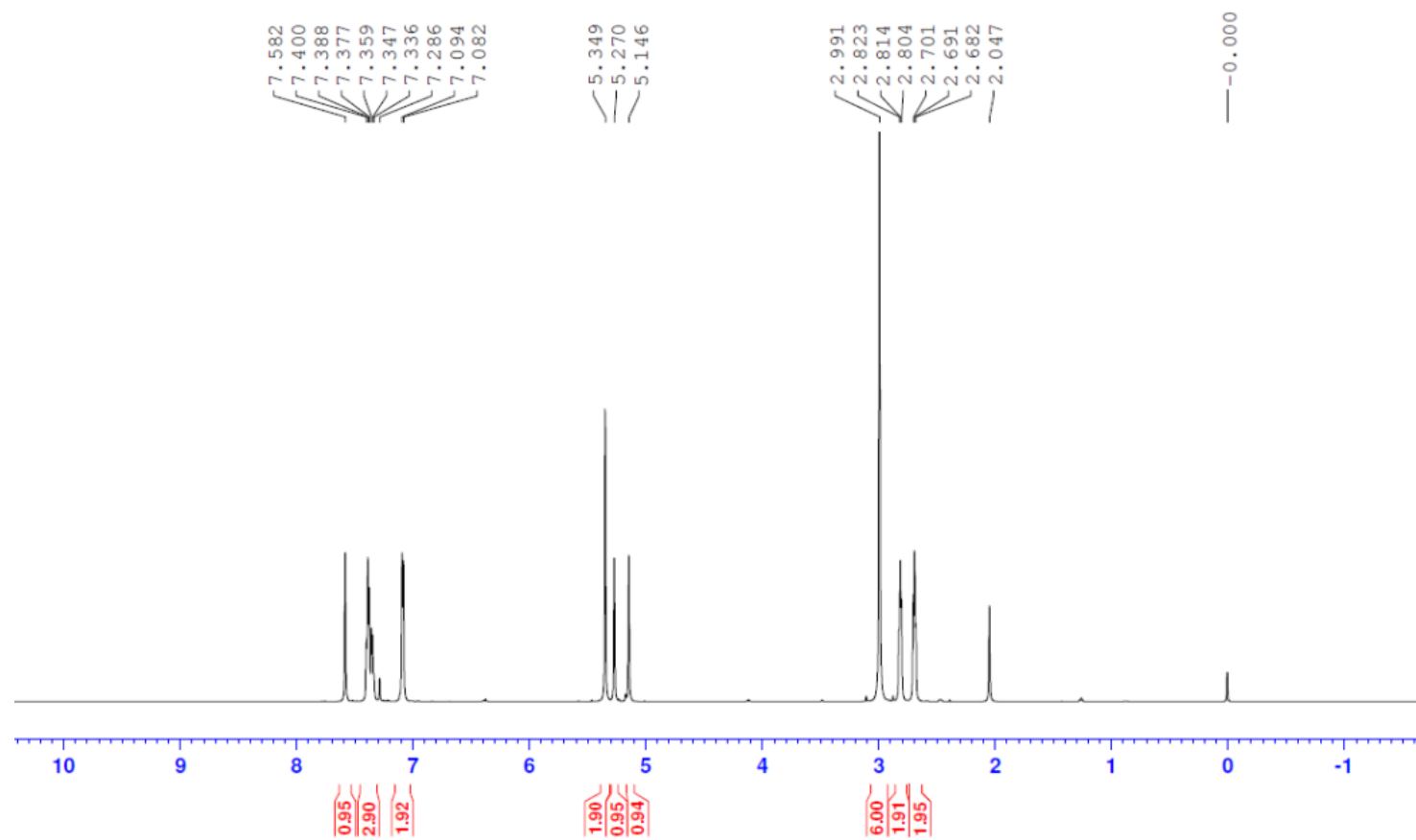


After recrystallization: qNMR spectra



The purity was confirmed by qNMR spectroscopy in CDCl_3 using 24 mg of compound (3) and 9.7 mg of Dimethyl sulfone (99.65%) as an internal standard.

$$P \text{ sample} = \frac{I \text{ sample}}{I \text{ standard}} * \frac{N \text{ standard}}{N \text{ sample}} * \frac{M \text{ sample}}{M \text{ standard}} * \frac{m \text{ standard}}{m \text{ sample}} * P \text{ standard}$$

$$= \frac{0.95}{6.0000} * \frac{6}{1} * \frac{238.29}{94.13} * \frac{9.7}{24} * 99.65\%$$

$$= 96.8\%$$