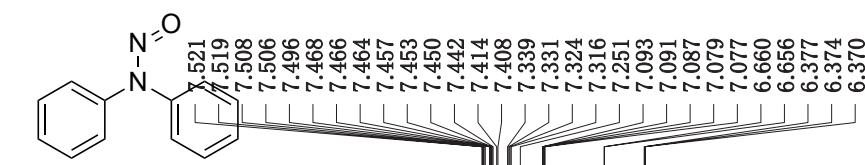
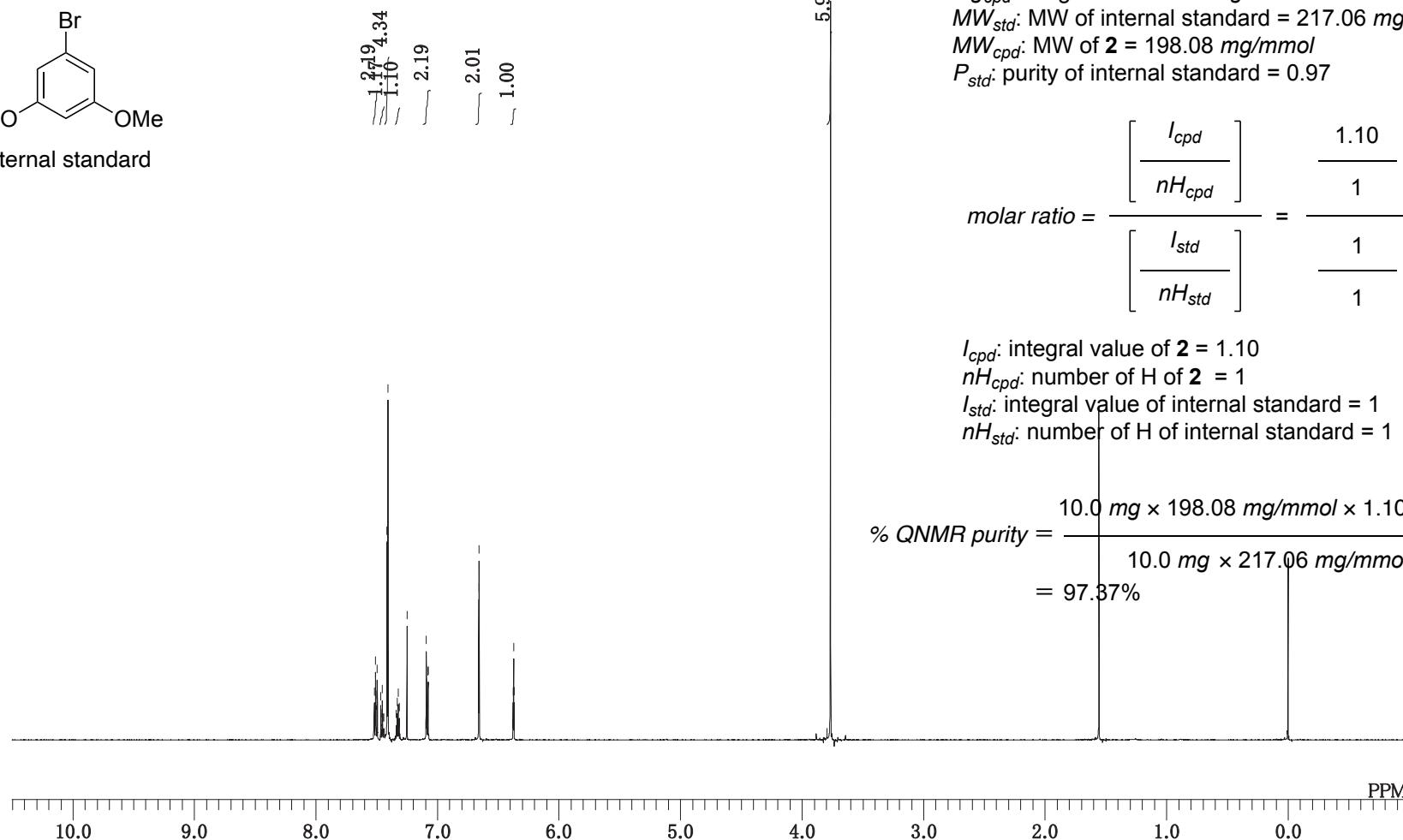
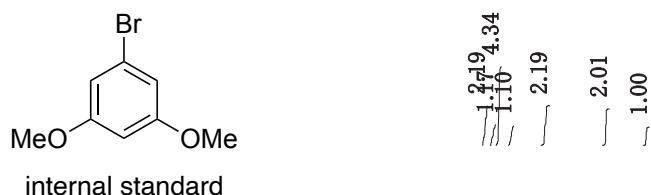


<sup>1</sup>H-NMR (600 Mz, CDCl<sub>3</sub>)



Purified Compound 2



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

mg<sub>std</sub>: weight of internal standard = 10.0 mg

mg<sub>cpd</sub>: weight of **2** = 10.0 mg

MW<sub>std</sub>: MW of internal standard = 217.06 mg/mmol

MW<sub>cpd</sub>: MW of **2** = 198.08 mg/mmol

P<sub>std</sub>: purity of internal standard = 0.97

$$\text{molar ratio} = \frac{\left[ \frac{I_{cpd}}{nH_{cpd}} \right]}{\left[ \frac{I_{std}}{nH_{std}} \right]} = \frac{\frac{1.10}{1}}{\frac{1}{1}} = 1.10$$

I<sub>cpd</sub>: integral value of **2** = 1.10

nH<sub>cpd</sub>: number of H of **2** = 1

I<sub>std</sub>: integral value of internal standard = 1

nH<sub>std</sub>: number of H of internal standard = 1

$$\% \text{ QNMR purity} = \frac{10.0 \text{ mg} \times 198.08 \text{ mg/mmol} \times 1.10 \times 0.97}{10.0 \text{ mg} \times 217.06 \text{ mg/mmol}} \times 100 \\ = 97.37\%$$

PPM