



Figure 8: ^1H nutation acquired for water peak from a sample of 100 mM ^{15}N -urea dissolved in water measured at 600 MHz. The $810^\circ/90^\circ$ ratio is 92% at 600 MHz. The 90° pulse length is below $2.5 \mu\text{sec}$ corresponding to 100 kHz radio-frequency field for an input power of 100 W. Similar B_1 efficiency and homogeneity was observed at 500 MHz.