Case-01: Spool filled fully with water with End Caps On
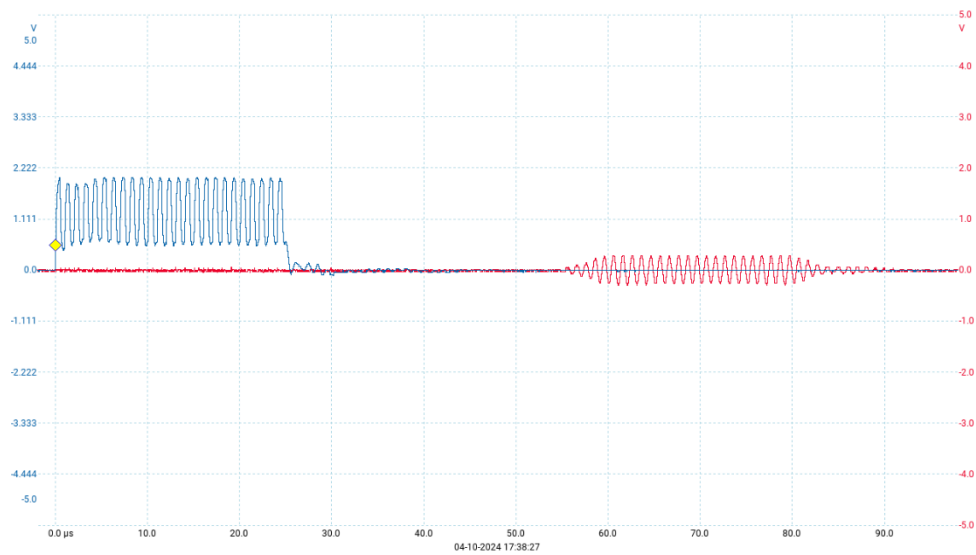
A. Waveform captured on the Oscilloscope

Figure 1: Channel A (blue) and Channel B (red)
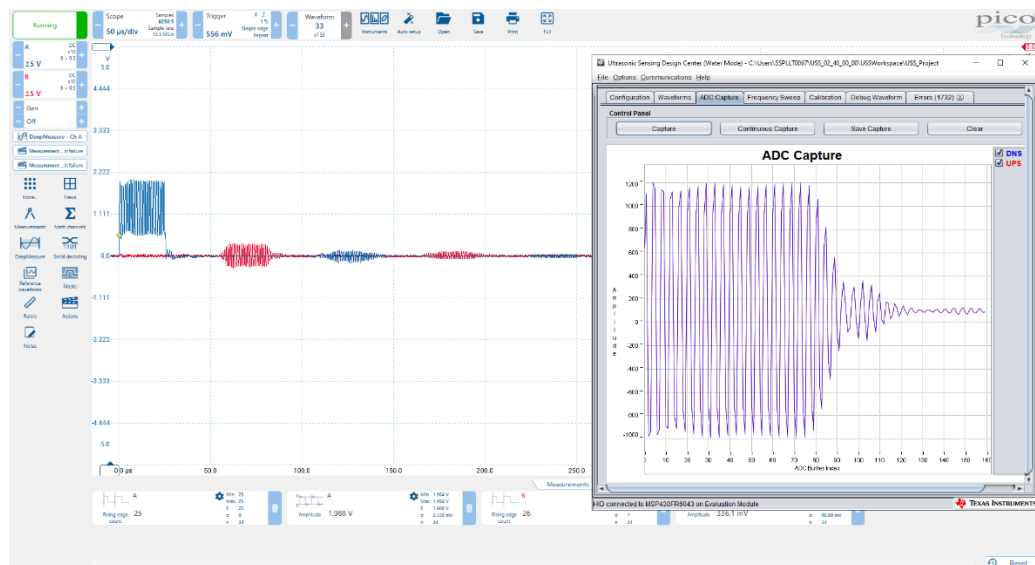
B. Waveform captured on TIs USS Design Center

Figure 2: Oscilloscope vs TI USS Design Center ADC Capture

Case-02: Empty Spool with End Caps On

A. Waveform captured on the Oscilloscope

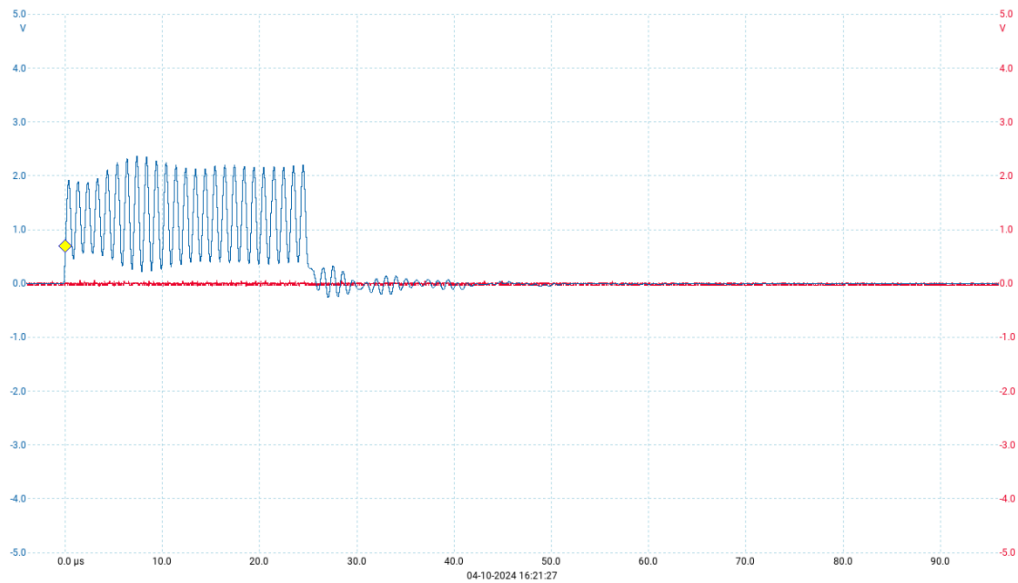*Figure 3: Channel A (blue) and Channel B (red)*
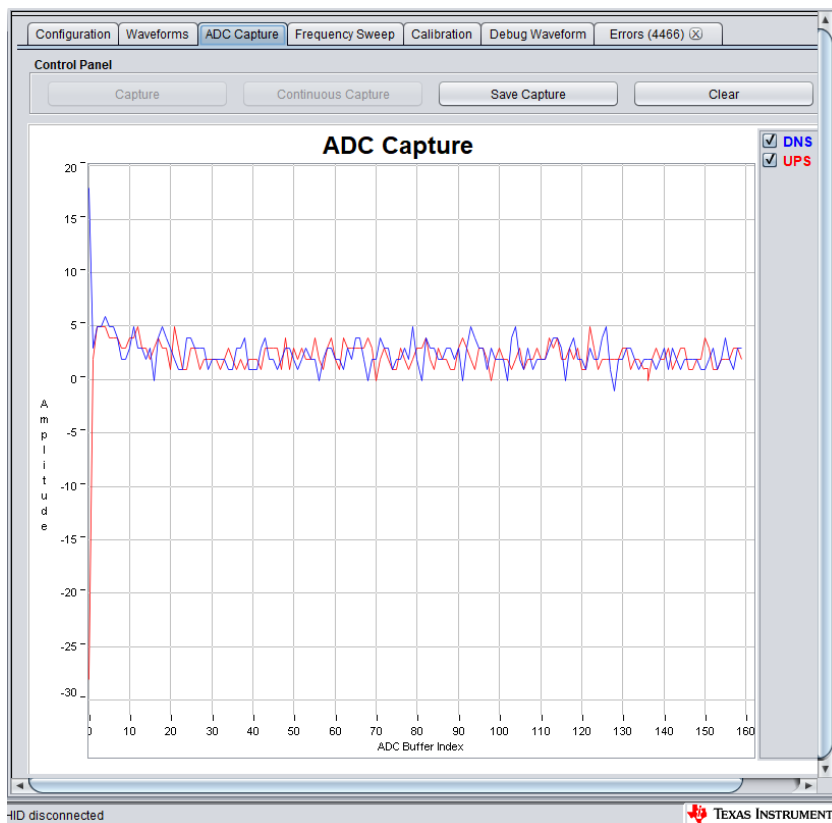
B. Waveform captured on TIs USS Design Center

Figure 4: TI USS Design Center Waveform Capture

TI USS Design Center Software Parameters:

Software Parameters

Transmit frequency (kHz)	F1	1,000	F2	1,020	Single Tone
Gap between pulse start and ADC capture (µs)		60			
Number of Pulses		25			
UPS and DNS Gap (µs)		500			
UPS0 to UPS1 Gap (ms)		1,000			
GUI Based Gain Control		1.0 db			
Meter Constant		12742000.00	ℓ/h	G/m	