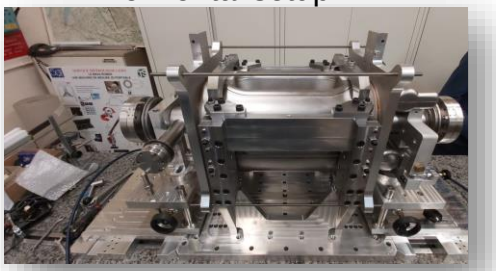
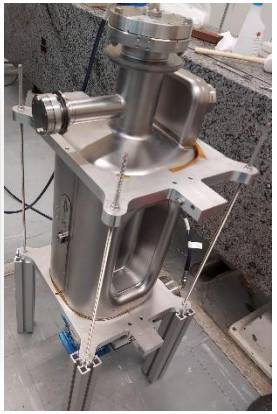
Fundamental Mode

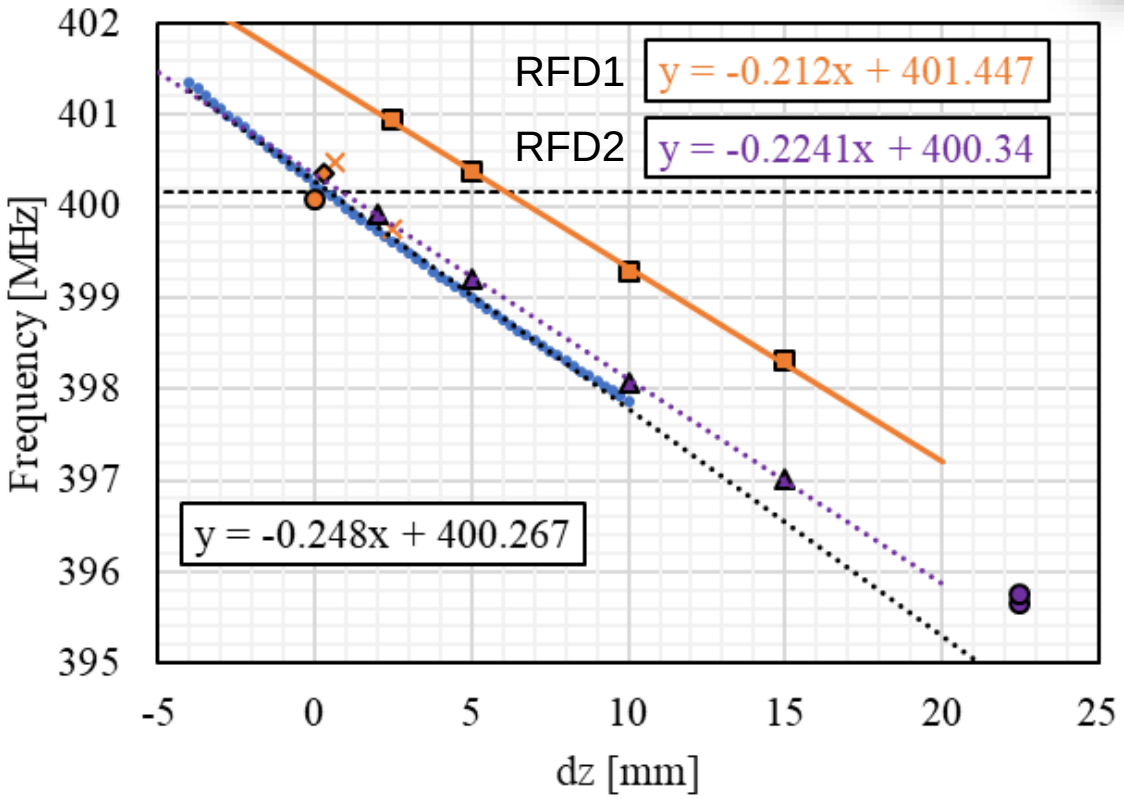
Welded freq = 400.052 MHz (-108 kHz from predicted). Welding caused frequency decrease

Horizontal setup



Vertical setup



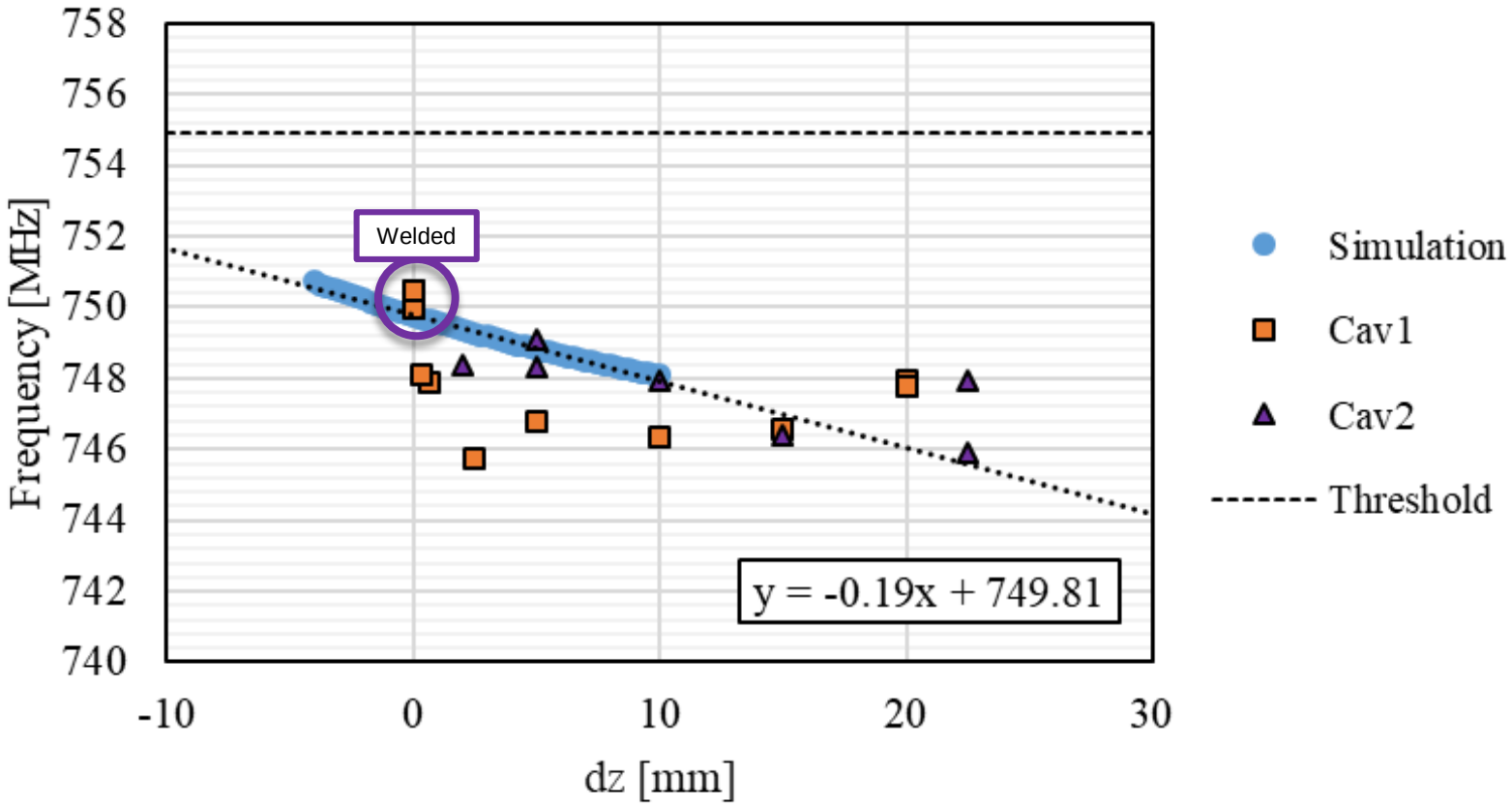


- Simulation
- Cav1: Before pole tune
- Cav1: After pole tune
- Cav2: Main body with Cav1 end caps
- Cav2
- Target (welded)
- Cav1: Weld #1
- Cav1: Weld #2

Vertical setup was easier and gave better Q_L values

HOMs

- Monitored 5 high order modes
- QL of 760 MHz mode very low during trim tuning. Recovered after welding



Beadpull RFD1

- Performed grid & polar scans with metallic needle and metallic sphere. Dielectric needle grid scan but with noisy data (analysis ongoing)