



Shure ULXD2

Measurements of Shure ULXD2 UHF Antennas for Regulatory Approval

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1. Shure ULXD2 – Handheld Transmitter

1.1 Design Block Diagram and Reference Angles

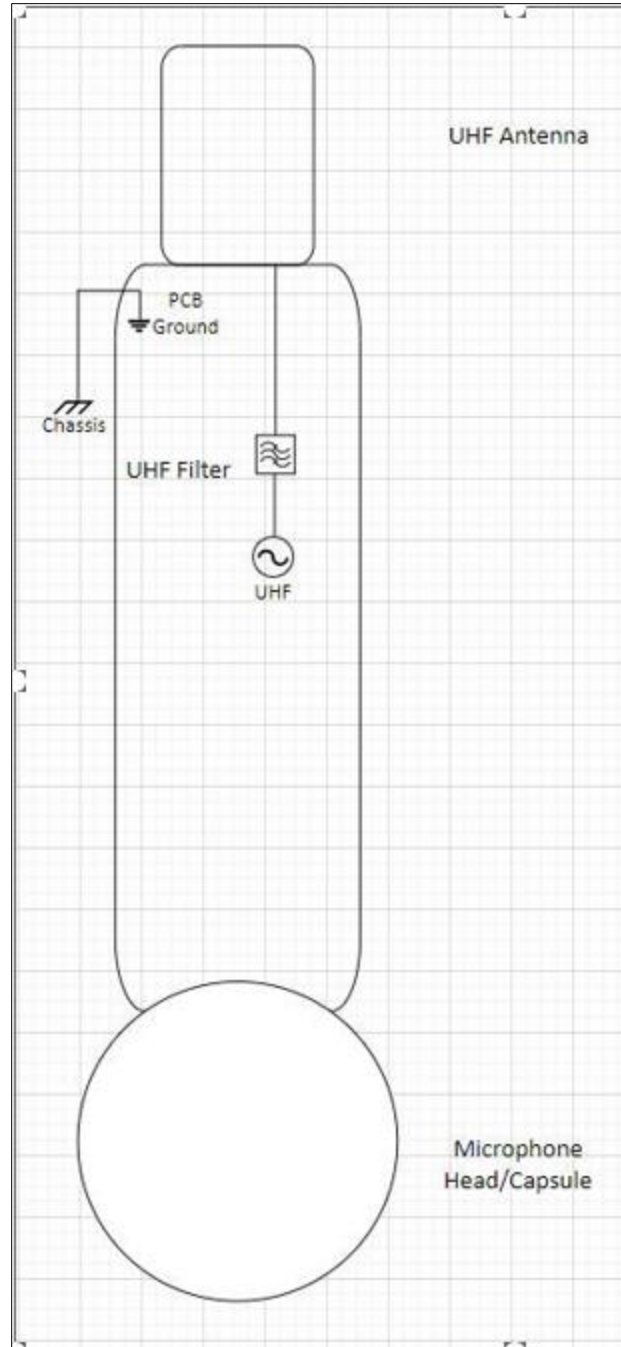


Figure 1 Shure ULXD2 UHF Antenna Block Diagram

1.2 Test Setup

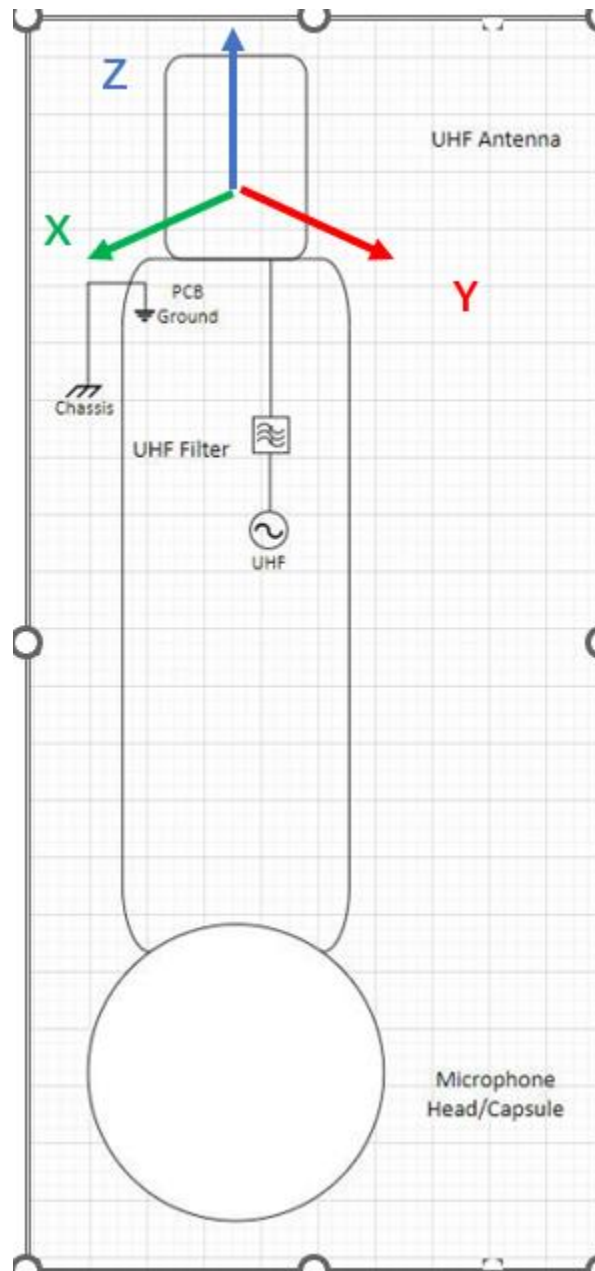


Figure 2 Shure ULXD2 Reference Angles

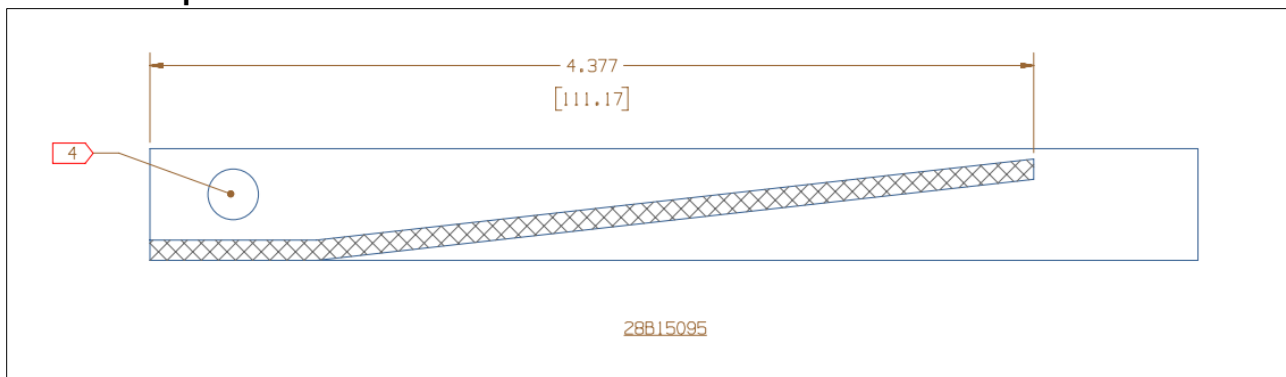


Figure 3 Photo of Shure ULXD2 in Antenna Chamber

Supporting Test Equipment List and Software:

- E5071C ENA series Vector Network Analyzer 100kHz-8.5GHz
- ETS Model 2090 Multi Device Controller
- ETS Lindgren Model 3164-10 3164-10 Open Boundary Quad-Ridged Horn 400MHz-10GHz
- ETS Lindgren Model 3126-2450 Precision Sleeve Dipole
- ETS Lindgren Model 3122D-DB4 Tuned Dipole Antenna
- EMQuest Data Acquisition and Analysis Software

antenna shape and dimensions



2. Test Results

2.1 ULXD2 UHF Antenna (Helical Dipole/Monopole Type)

2.1.1 ULXD2 – Helical Antenna Blue Dot (28B15095 Label)

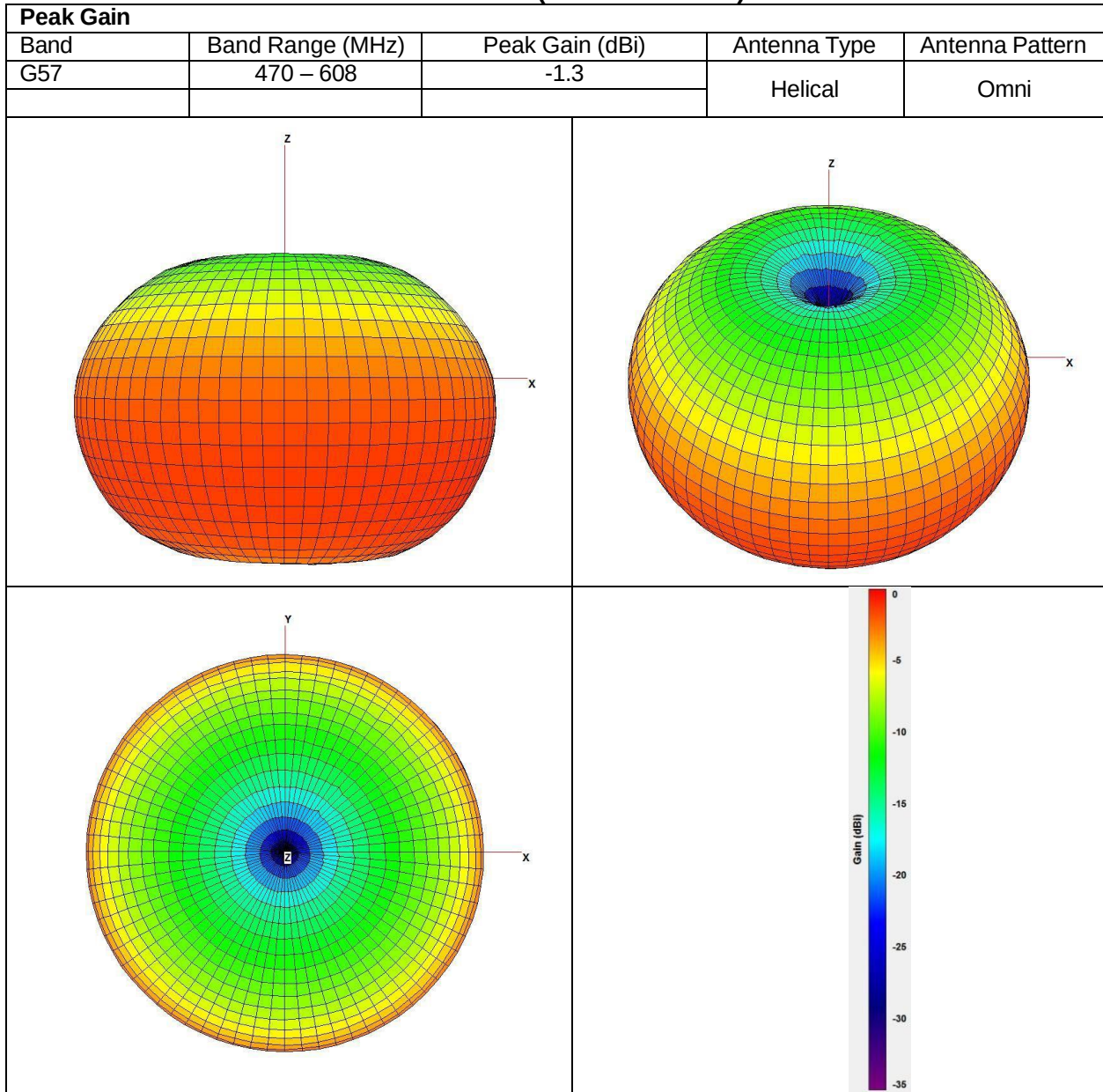


Figure 4 – ULXD2 (Helical Antenna Blue Dot) 3D radiation patterns and scale at max peak gain