



Shure SLXD2+

**Measurements of Shure SLXD2+ A Variant
Handheld Microphone
For Regulatory Approval
BLE Band (2402 – 2480 MHz)**

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1. SLXD2+ – Handheld Transmitter

1.1 SLXD2+ – BLE antenna for 2402-2480 MHz

Antenna 3D patterns for:

- Test frequency = 2402.000 MHz
- Maximum gain = 4.0 dBi

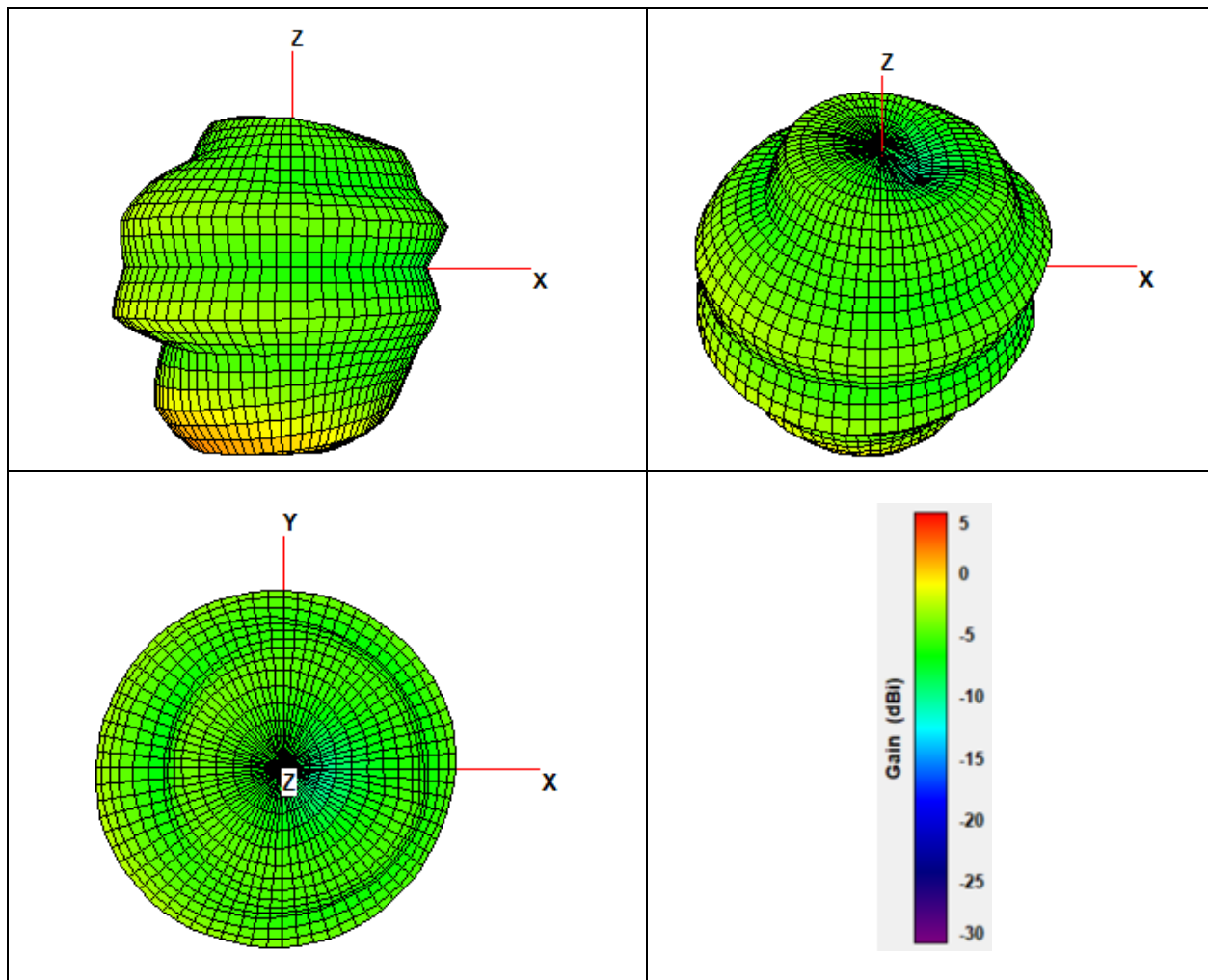


Figure 1 – SLXD2+ BLE (2402.000 MHz) 3D radiation patterns and scale

- Test frequency = 2440.000MHz
- Maximum gain = 4.3 dBi

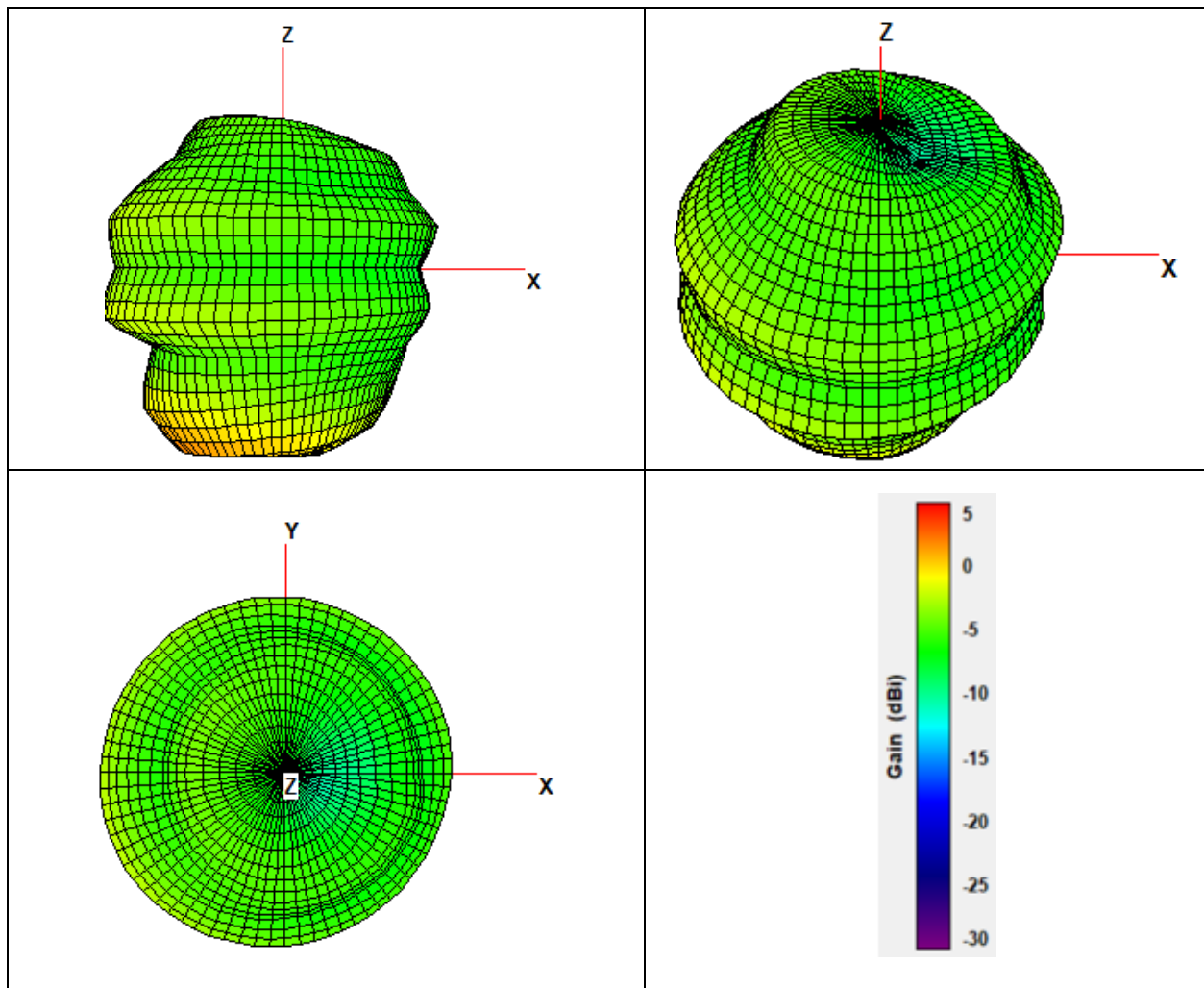


Figure 2 – SLXD2+ BLE (2440.000 MHz) 3D radiation patterns and scale

- Test frequency = 2480.000 MHz
- Maximum gain = 4.9 dBi

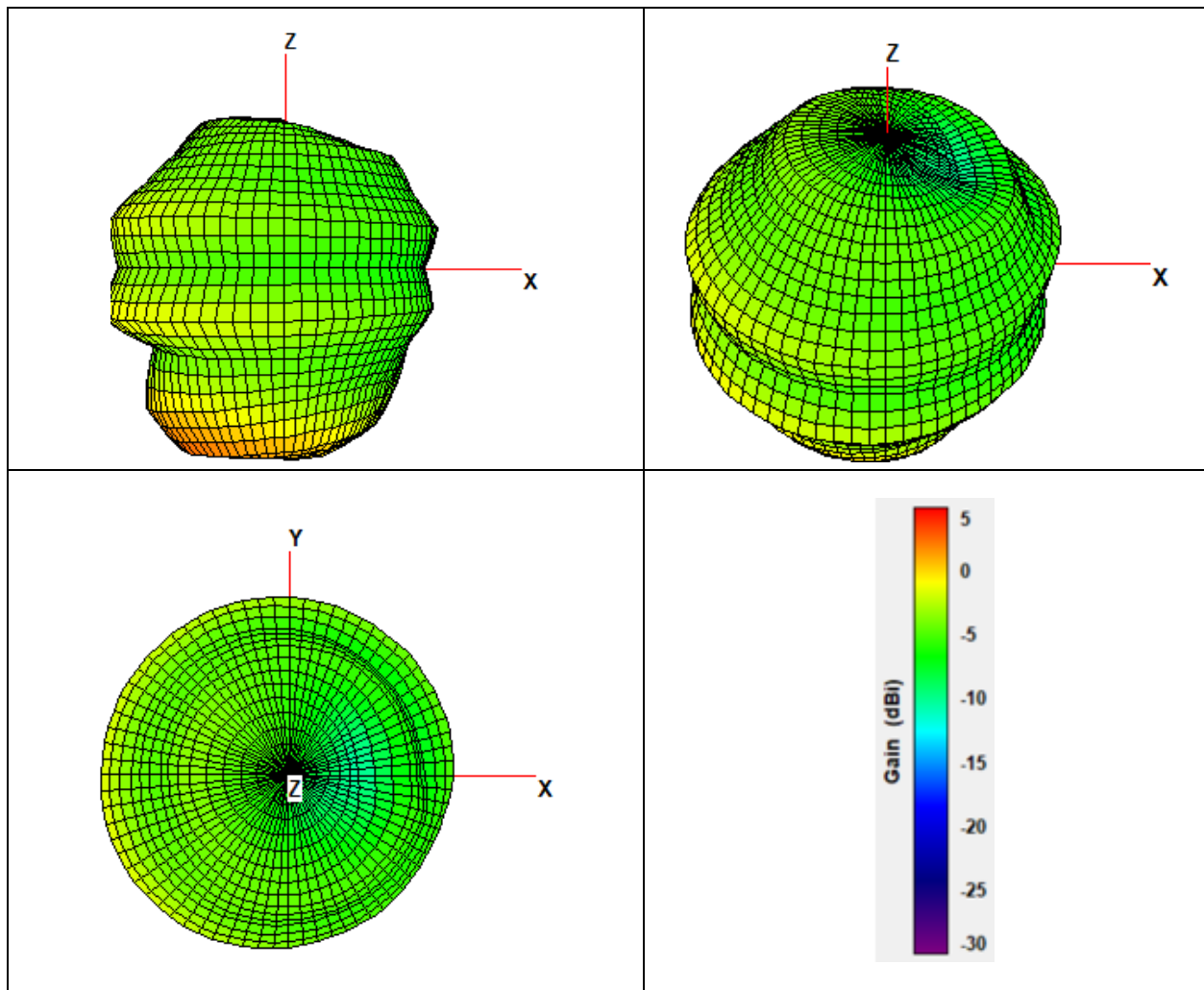


Figure 3 – SLXD2+ BLE (2480.000 MHz) 3D radiation patterns and scale

2. Appendix

2.1 Supporting Test Equipment List

- 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 no 3126-1920 precision sleeve dipole 1728-2112MHz
- EMQuest Data Acquisition and Analysis Software v1.12

2.2 Antenna Chamber Diagram and Reference Angles and DUT Pictures

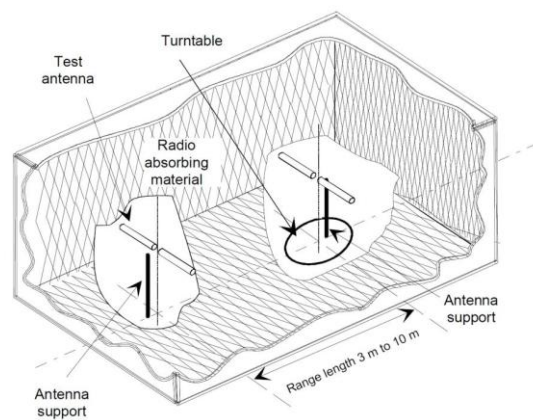


Figure 4– Diagram of Shure antenna chamber. Designed per ETSI EN 300 422-1, section D-1



Figure 5 – Photo of Shure Antenna Test Chamber.

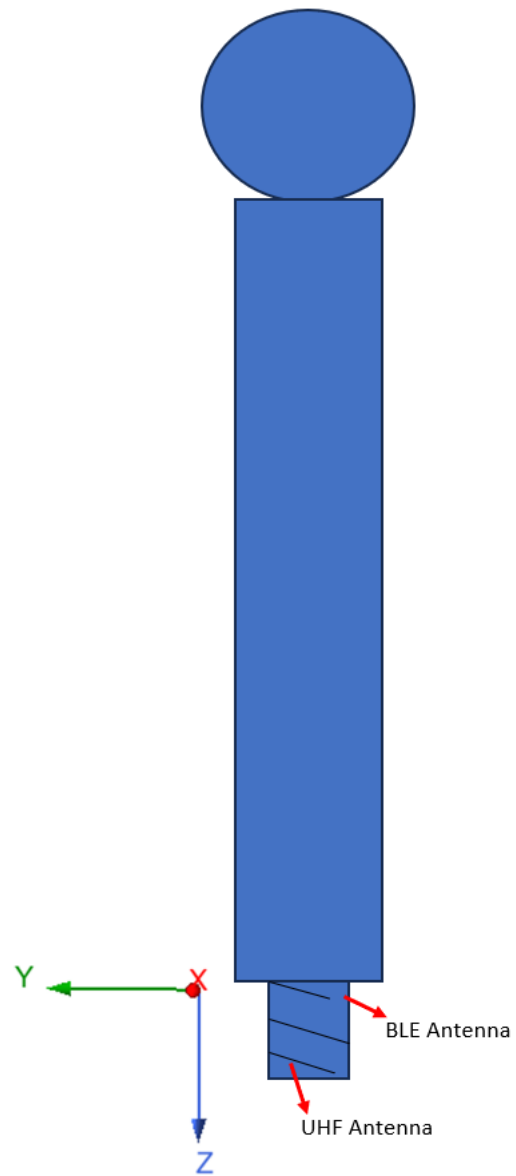


Figure 6 - Antenna reference angles

SLXD2+ Helical UHF and BLE Antenna Structures

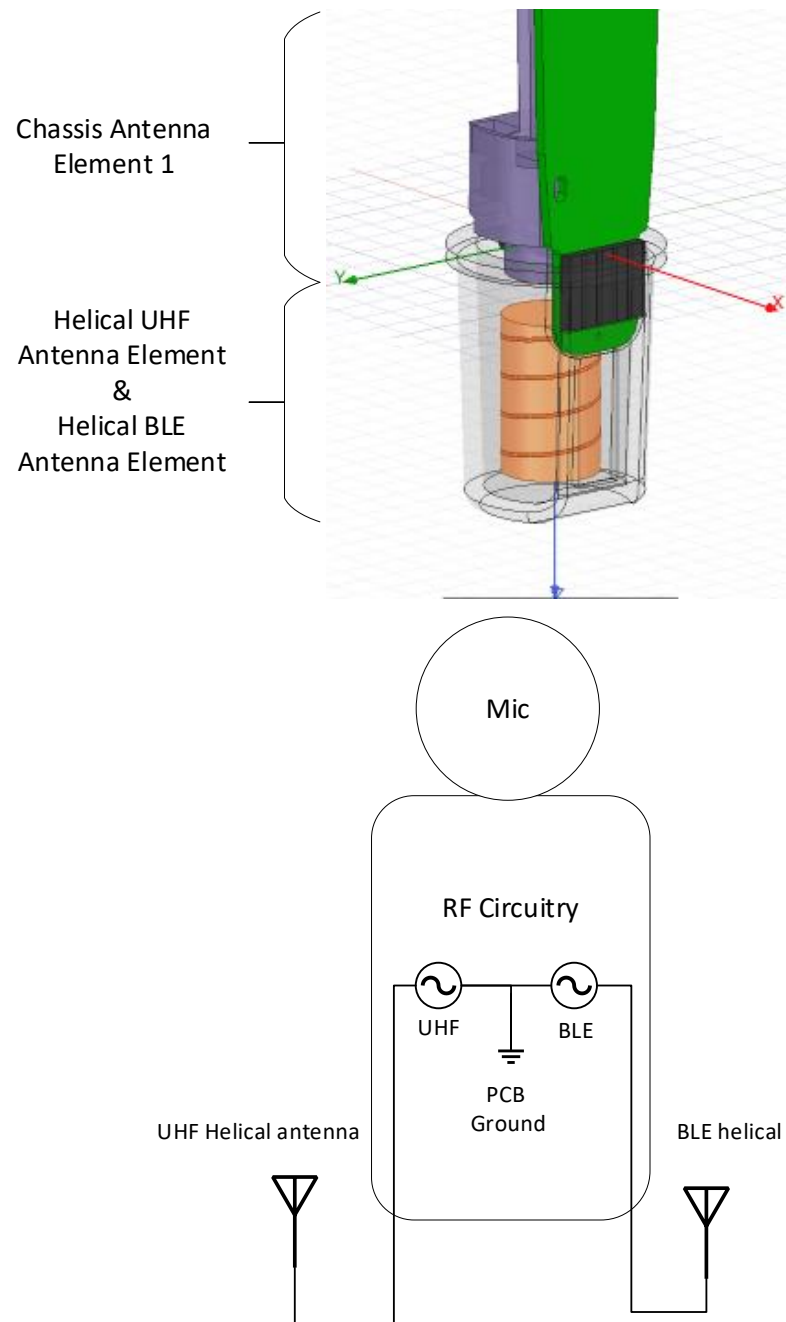


Figure 7 – SLXD2+ UHF Helical Antenna and BLE Helical Antenna RF Connection Block Diagram