

**Measurements of Shure SLXD3+
with VP89M Microphone
For Regulatory Approval
BLE (2402 – 2480 MHz)**

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1. SLXD3+ – Plug-on Transmitter

1.1 SLXD3+ – with VP89M microphone

Antenna 3D patterns for:

- Test frequency = 2402 MHz
- Maximum gain = 3.1 dBi

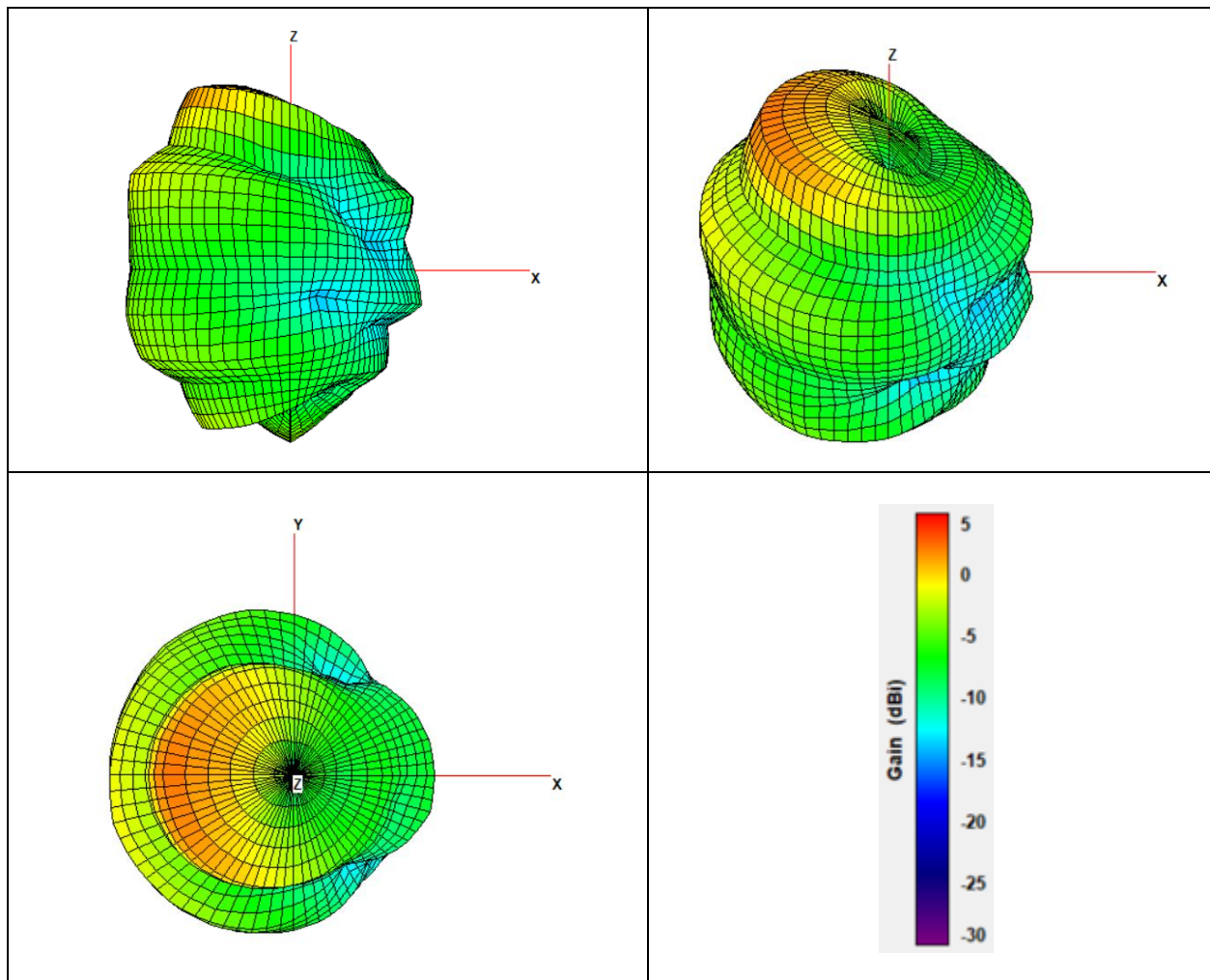


Figure 1 – SLXD3+ BLE (2402 MHz) 3D radiation patterns and scale

- Test frequency = 2440 MHz
- Maximum gain = 3.6dBi

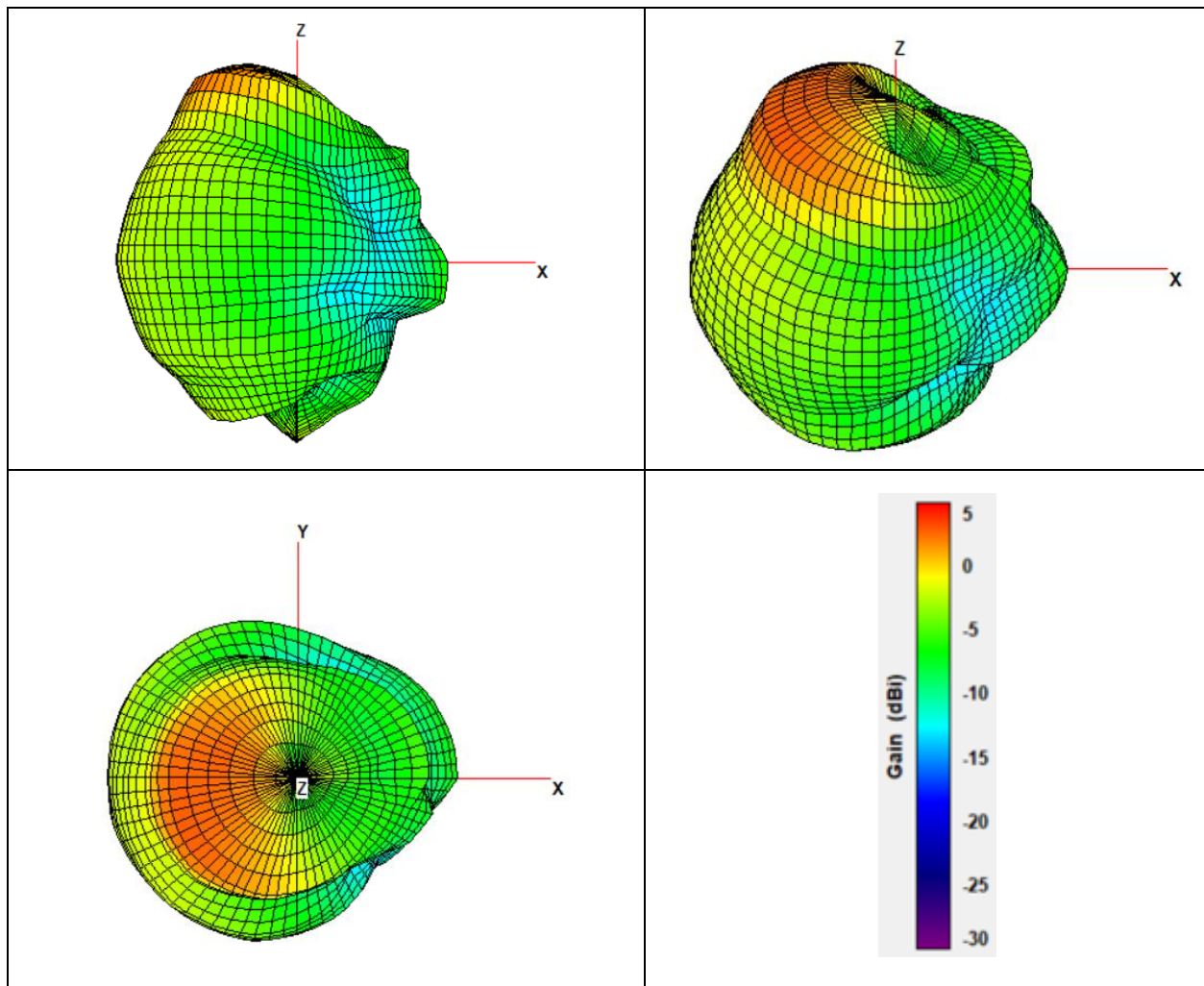


Figure 2 – SLXD3+ BLE (2440 MHz) 3D radiation patterns and scale

- Test frequency = 2480 MHz
- Maximum gain = 4.1 dBi

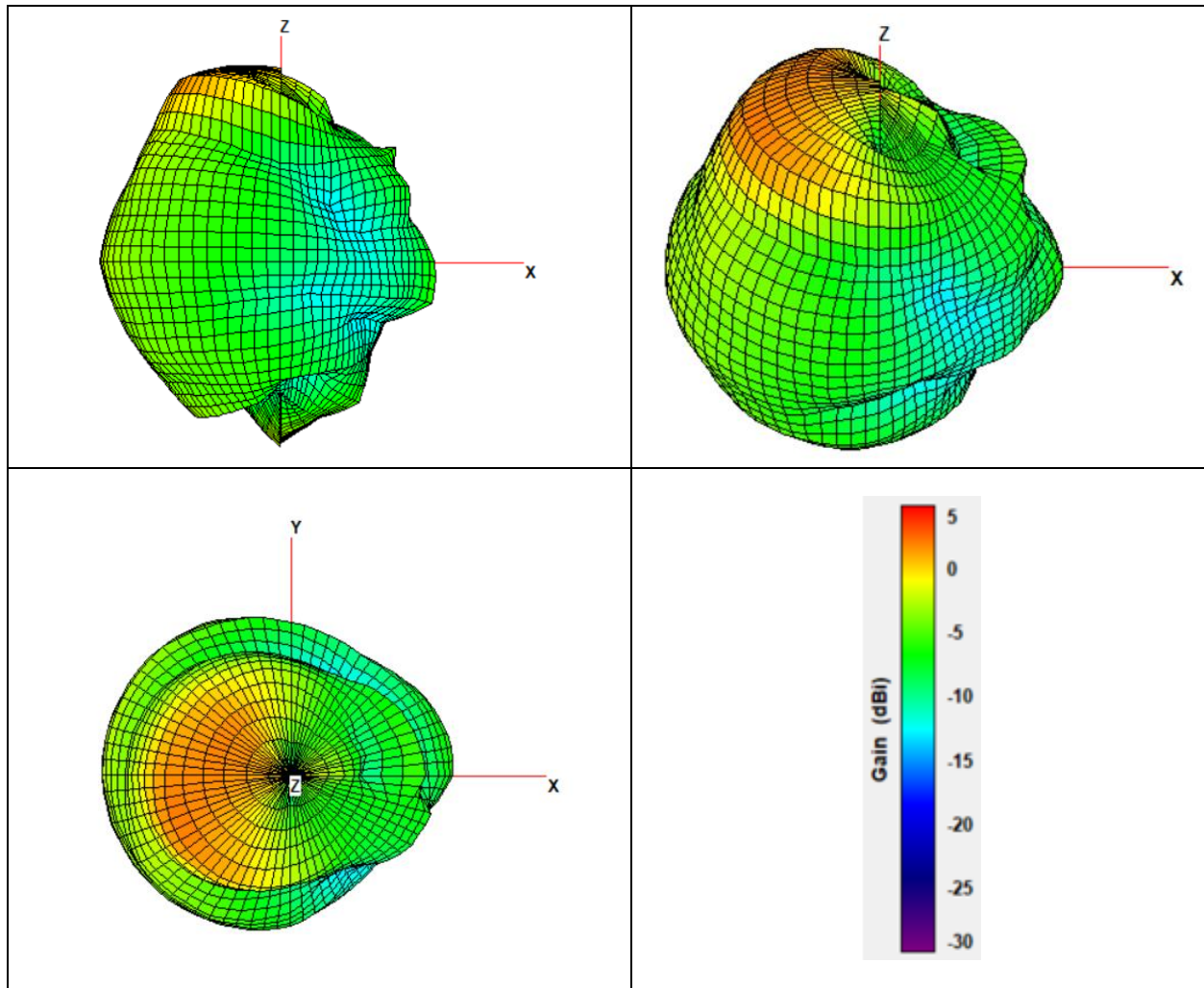


Figure 3 – SLXD3+ BLE (2480 MHz) 3D radiation patterns and scale

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

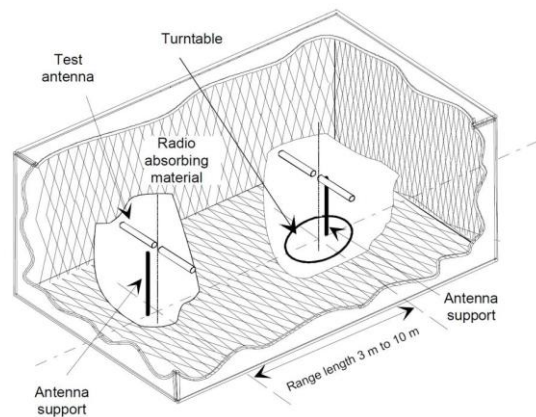
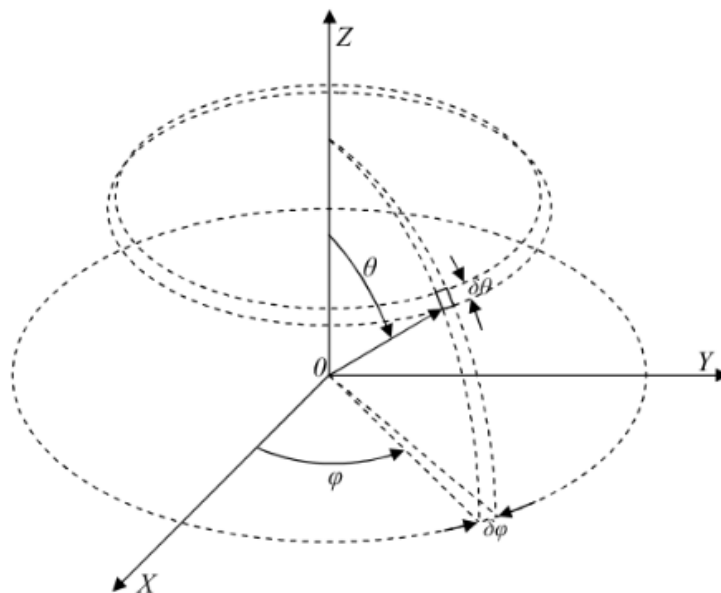
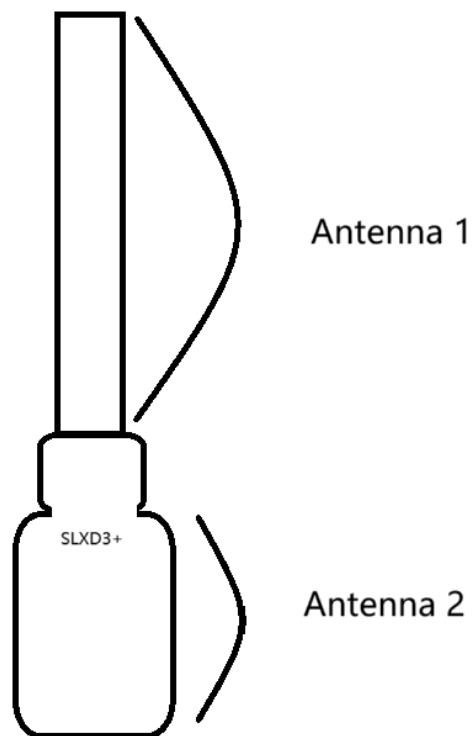


Figure 4 – Diagram of Shure antenna chamber. Designed per ETSI EN 300 422-1, section D-1



Figure 5 – Photo of Shure Antenna Test Chamber.**Figure 6 – Antenna reference Angle**

SLXD3+ Dipole Antenna Structure





Shure SLXD3+

Figure 7 - SLXD3+ Dipole Antenna and RF Connection Block Diagram