



Shure HWRX

**Measurements of Shure  
Midway HWRX  
For Regulatory Approval  
BLE (2402–2480 MHz)**

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### 1. HWRX – BLE portable receiver

#### 1.1 HWRX – FIPA 3D patterns

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#### HWRX Top mounted PIFA

- Test frequency = 2402 MHz
- Maximum gain = 4.3 dBi

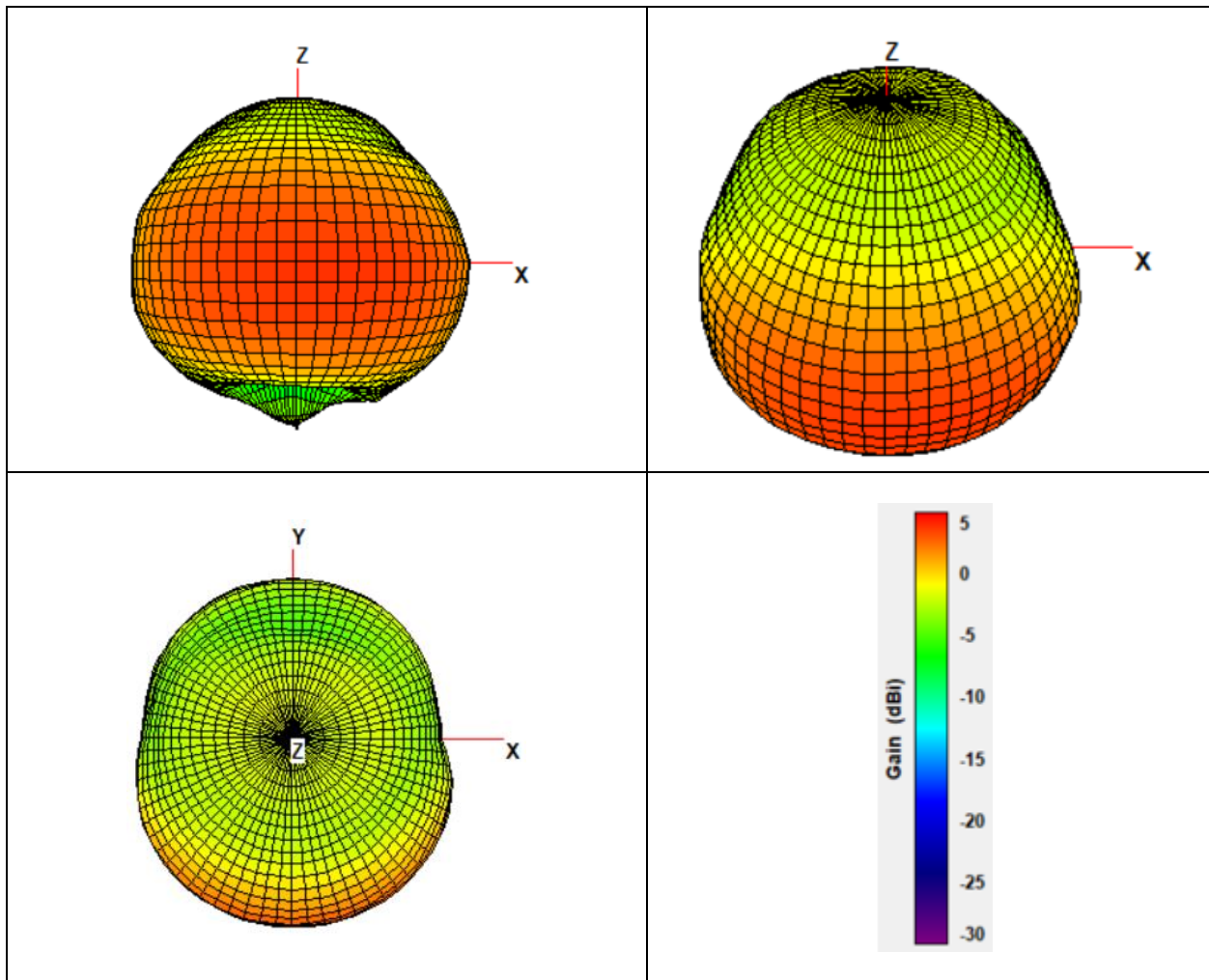


Figure 1 – HWRX (2402 MHz) Top Antenna 3D radiation patterns and scale

### HWRX Top mounted PIFA

- Test frequency = 2440 MHz
- Maximum gain = 3.3dBi

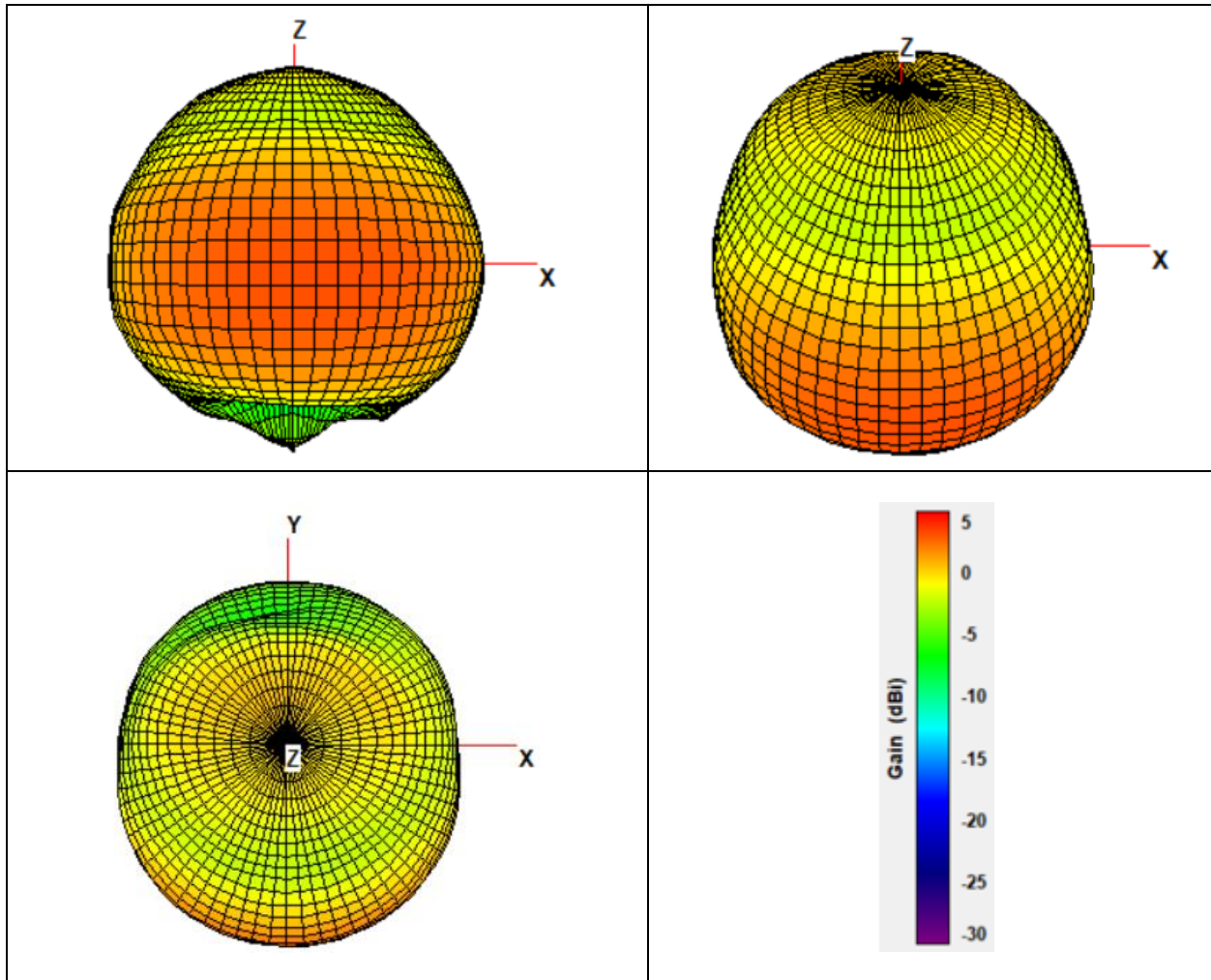


Figure 2 – HWRX (2440 MHz) Top Antenna 3D radiation patterns and scale

### HWRX Top mounted PIFA

- Test frequency = 2480 MHz
- Maximum gain = 2.2dBi

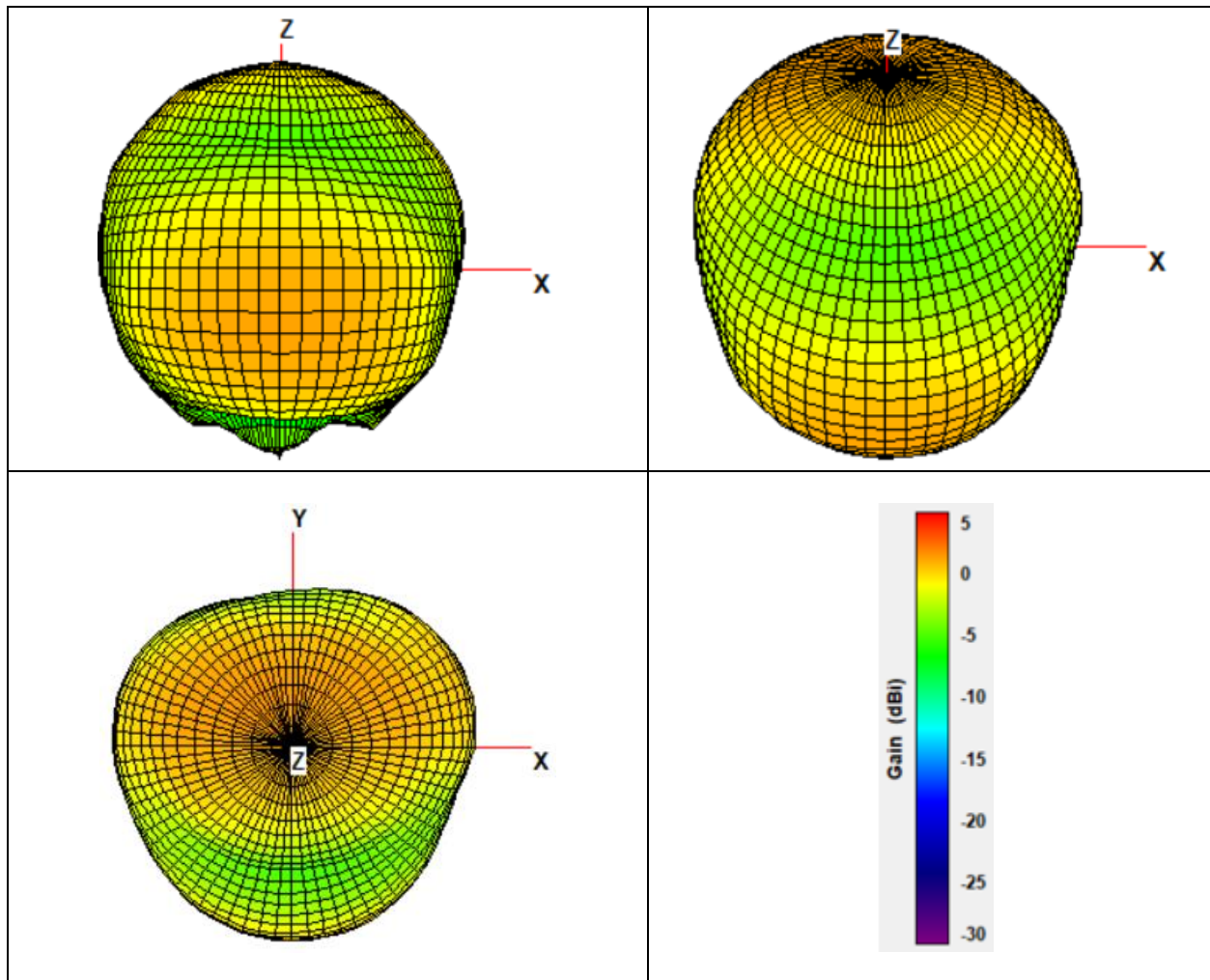


Figure 3 – HWRX (2480 MHz) Top Antenna 3D radiation patterns and scale

### HWRX Side mounted PIFA

- Test frequency = 2402 MHz
- Maximum gain = 2.5 dBi

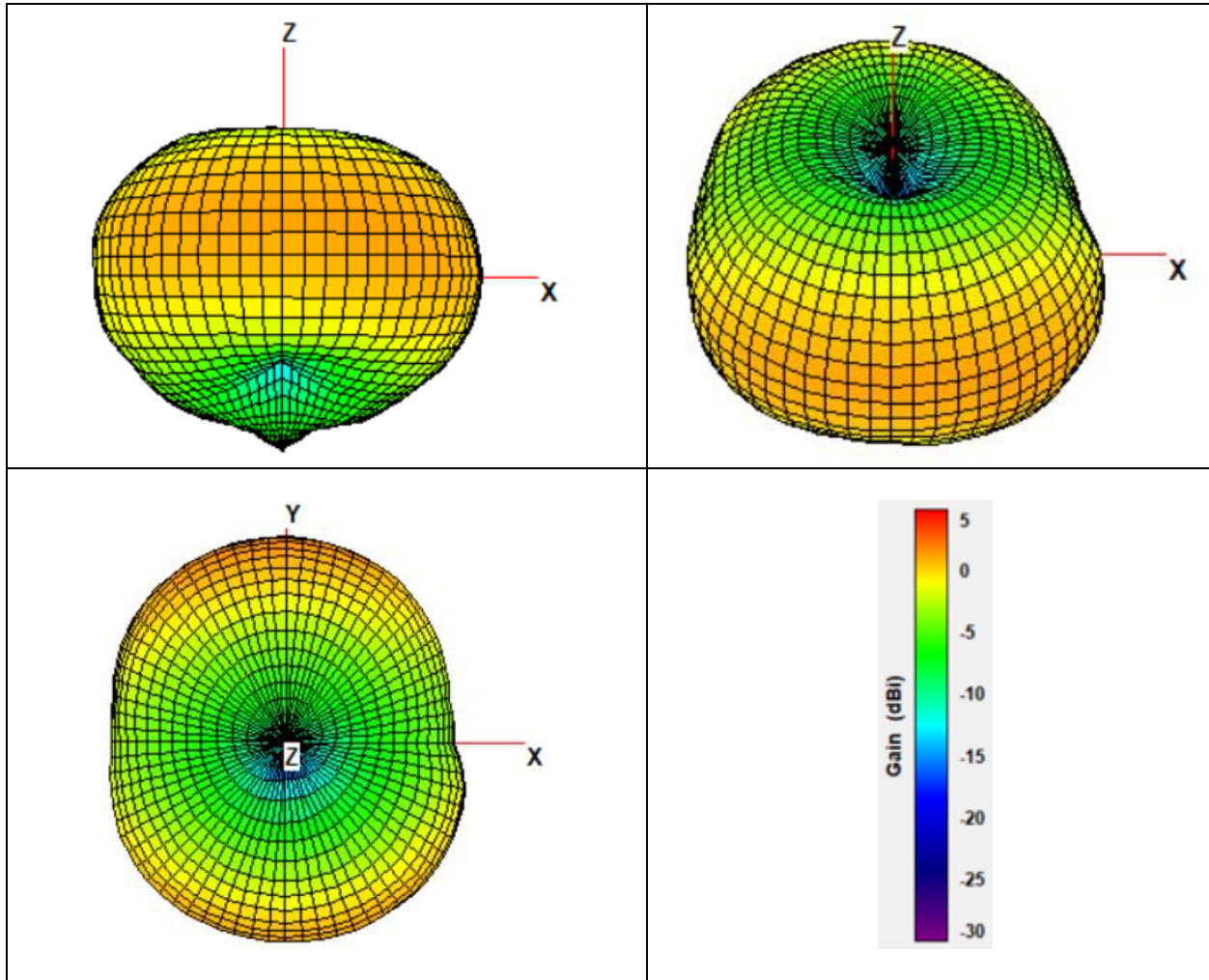


Figure 4 – HWRX (2402 MHz) Side Antenna 3D radiation patterns and scale

### WHRX Side Mounted PIFA

- Test frequency = 2440 MHz
- Maximum gain = 2.2dBi

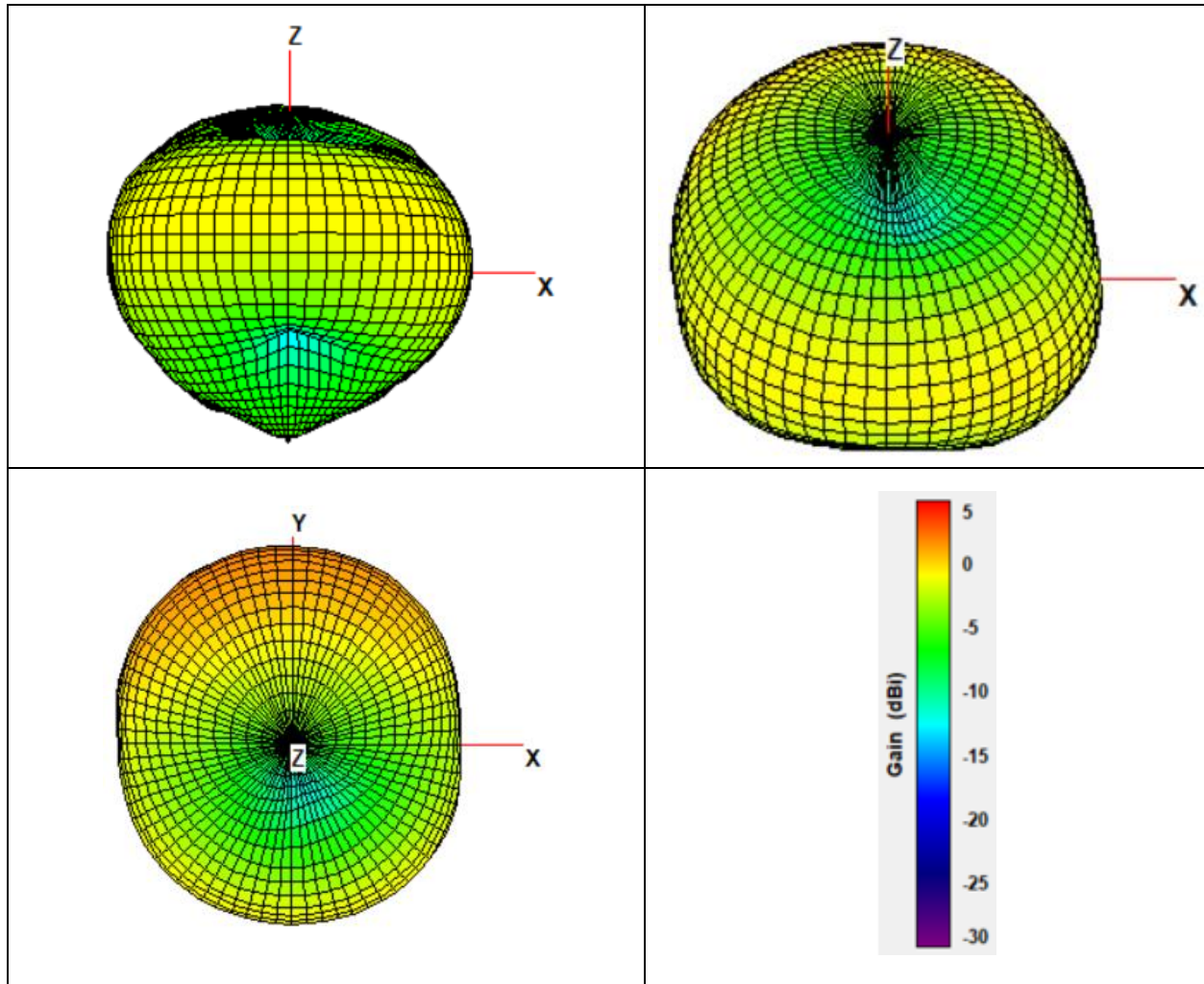


Figure 5 – HWRX (2440 MHz) Side Antenna 3D radiation patterns and scale



### HWRX Side mounted PIFA

- Test frequency = 2480 MHz
- Maximum gain = 1.5dBi

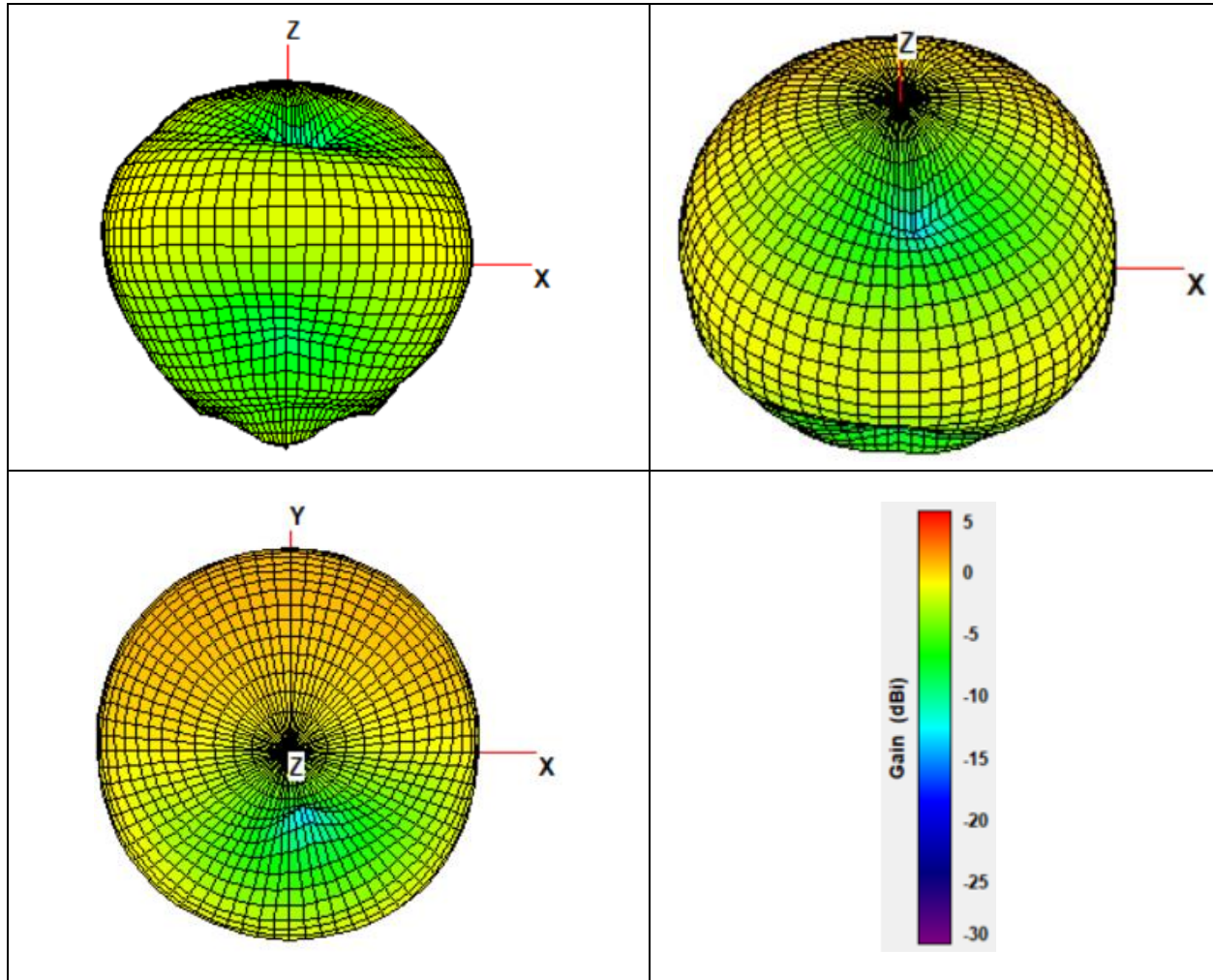


Figure 6 – HWRX (2480 MHz) Side Antenna 3D radiation patterns and scale



2. Appendix

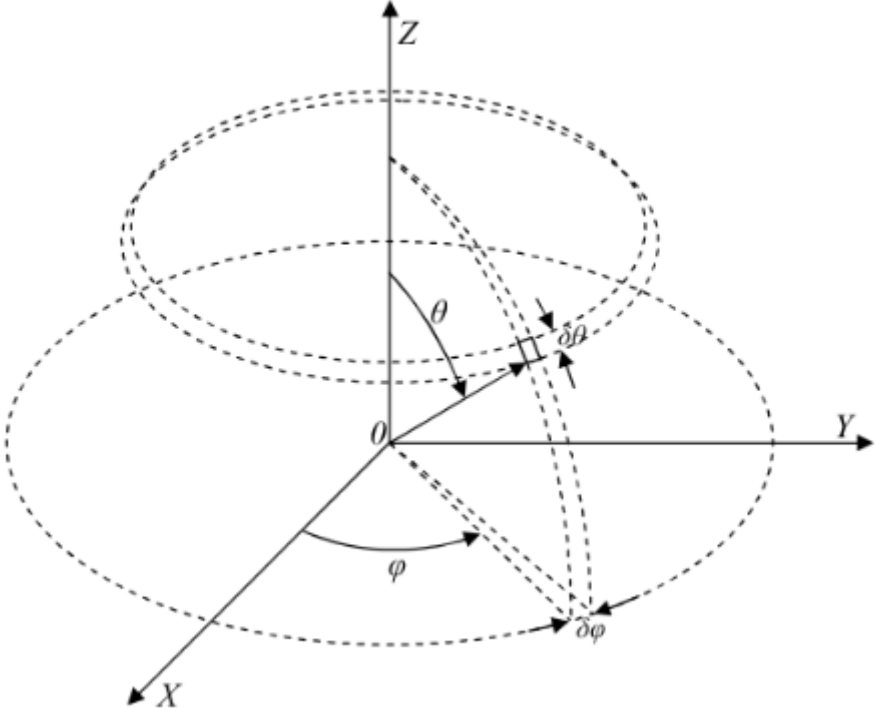


Figure 7 – Antenna reference angles

Front View

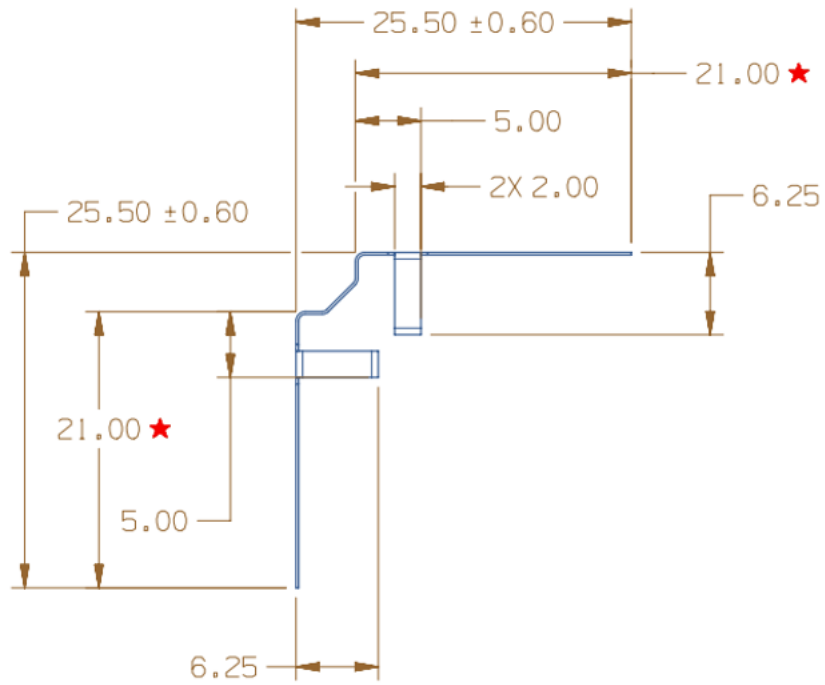
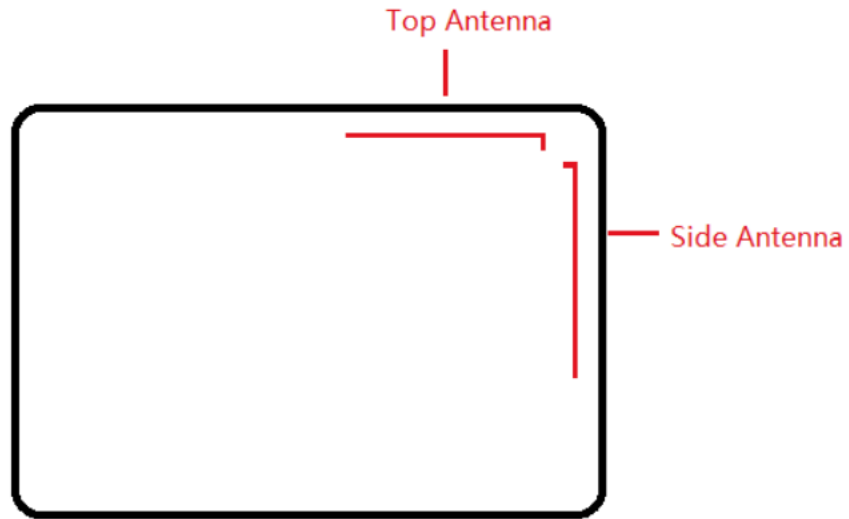


Figure 8 – HWRX PIFA