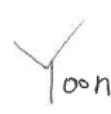


IE266 RF Radiated data

Prepared by	Checked by	Approved by
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2025.06.27.

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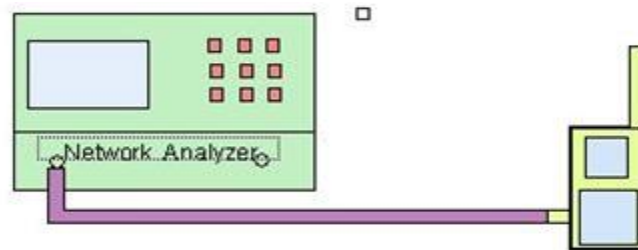
1. Frequency Band

Mode	Frequency Band (MHz)
Zigbee	2,400 ~ 2,500

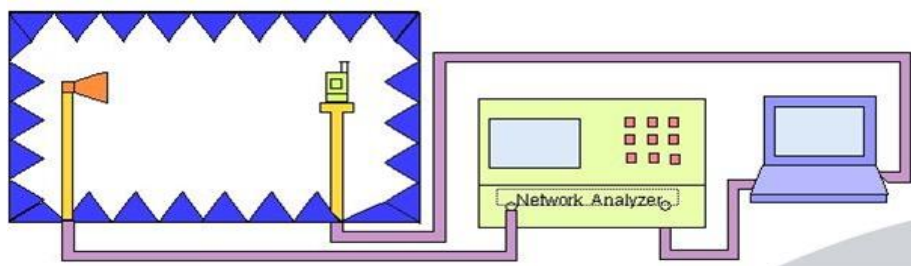
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1-1. Measurement Engineer

- Connect the device under test and required test equipment (Network analyzer). Measuring VSWR and frequency. Measurements include the magnitude and phase of both the vertical and horizontal components of the 3-D antenna pattern of actual hardware in an anechoic chamber (Partron). all measurements are made with antennas installed.
- Frequency, VSWR measurement



- Gain measurement



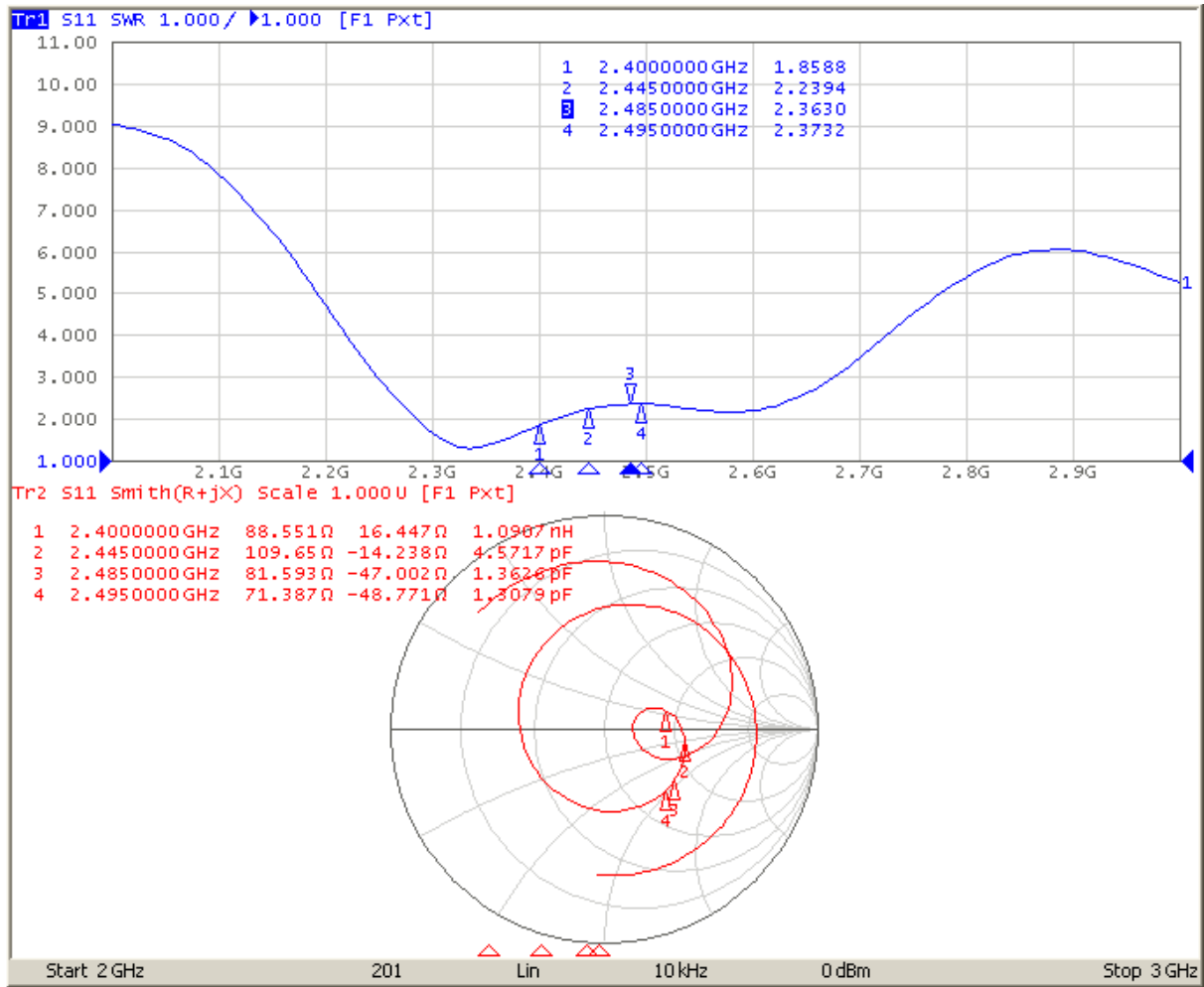
- Co-Polarization, Cross-Polarization Meaning
- Co-Polarization : When Radiated Vertical and Horizontal Polarization in Source Ant.

Co-Polarization is Higher Polarization that is Ave. Gain Value

- Cross-Polarization : When Radiated Vertical and Horizontal Polarization in Source Ant.

Co-Polarization is Lower Polarization that is Ave. Gain Value

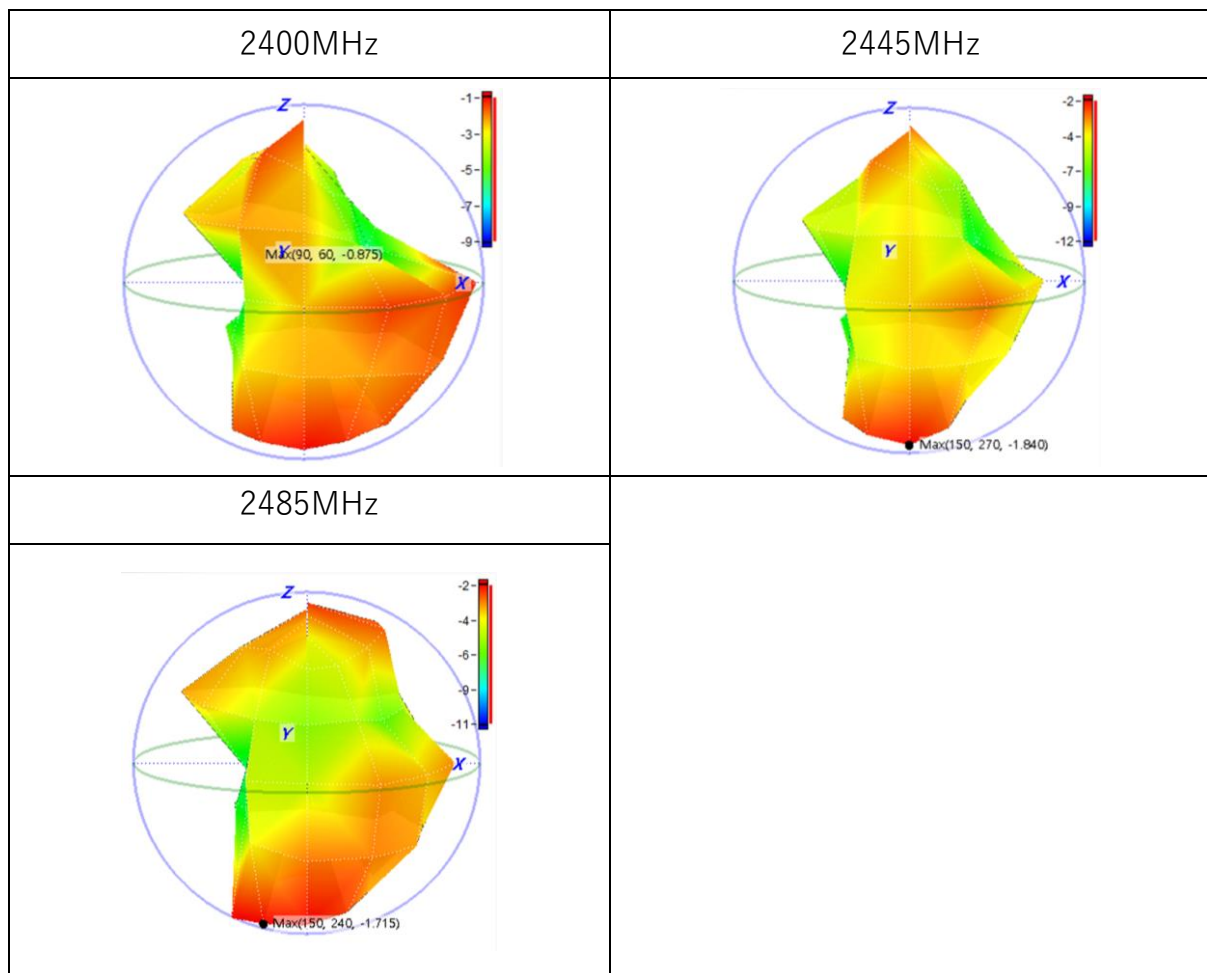
1-2. VSWR



1-3. Efficiency & Gain

Frequency	Peak Value		Minimum Value		Avg. Gain	Efficiency
[MHz]	Value[dBi]	Degree	Value[dBi]	Degree	[dBi]	[%]
2400.000	-0.875374	90 / 60	-9.071630	180 / 270	-3.024138	49.840935
2415.000	-0.167181	150 / 270	-8.681329	180 / 240	-2.458919	56.768590
2430.000	-1.760461	150 / 270	-11.024757	180 / 240	-4.484869	35.605175
2445.000	-1.839767	150 / 270	-11.533293	180 / 240	-4.799389	33.117773
2460.000	-0.762533	150 / 270	-10.309264	180 / 240	-3.514763	44.516773
2465.000	-0.262330	150 / 270	-9.955650	180 / 240	-3.239087	47.434166
2480.000	-1.706803	150 / 240	-11.147508	180 / 270	-4.311004	37.059500
2485.000	-1.714700	150 / 240	-11.236635	180 / 270	-4.183702	38.161887
2490.000	-1.659301	150 / 210	-12.038664	180 / 270	-4.346908	36.754386
2500.000	-1.703645	150 / 210	-11.972804	180 / 270	-4.344298	36.776488

1-4. 3D Radiated Pattern



2. TEST METHOD

2-1. Measurement information

Description	Manufacturer	Model
Network Analyzer	Anritsu	ME7848A

2-2. 3D Chamber

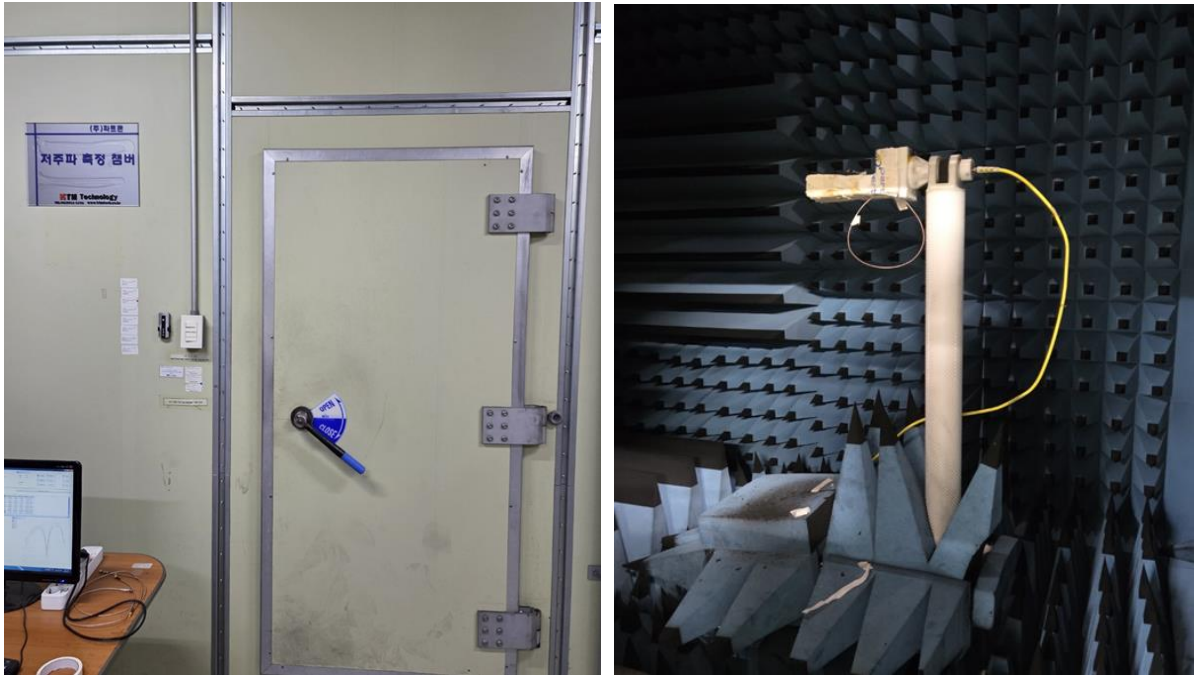


Figure 1: Testing with RF Chamber

Measurement facility: Partron ESL, 3D Chamber

3. Antenna Dimension

