
Antenna Specification

Manufacture: Shenzhen Yundacheng Technology Co., Limited

**Address: No.401, building 3, honghengtai industrial park,
liantang industrial city, shangcun community, gongming street,
guangming district, shenzhen**

Product Name: PCB Antenna

Test Date: 2025.11.24

Tested by: Jianwei Wang

Approved: Yi Mei

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1.General Description

Manufacturer	Shenzhen Yundacheng Technology Co., Limited
Address	No.401, building 3, honghengtai industrial park, liantang industrial city, shangcun community, gongming street, guangming district, shenzhen
Product Name	PCB Antenna
Product model	TPF103-PW
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

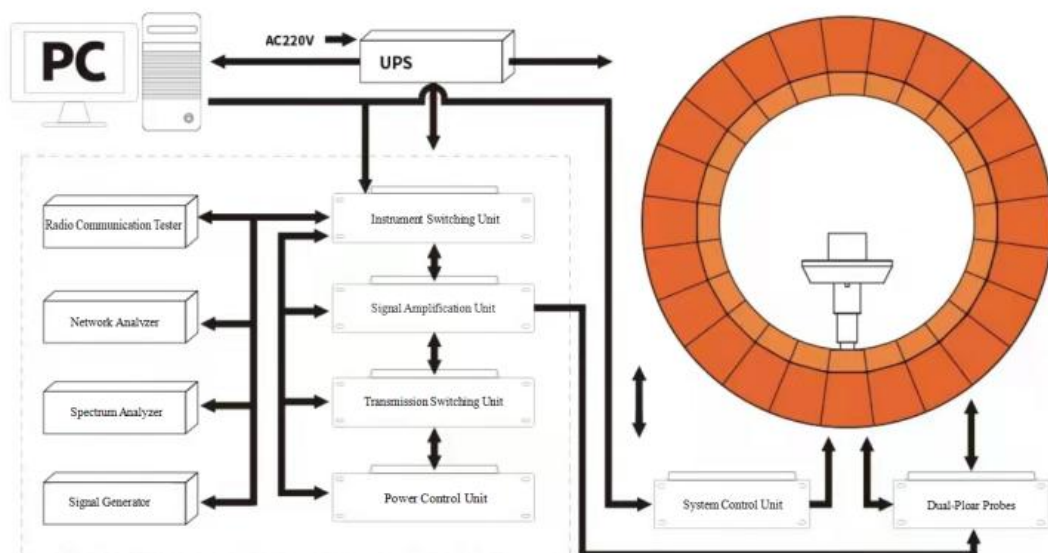
2.1 Test Environment

Temperature (°C)	25
Humidity (%RH)	60
Atmospheric Pressure (kPa)	100.5

2.2 Test Equipment

Test System	TEM 24 Multi-probe Microwave Chamber
Test Instrument	Agilent E5071B

2.3 Test Principle



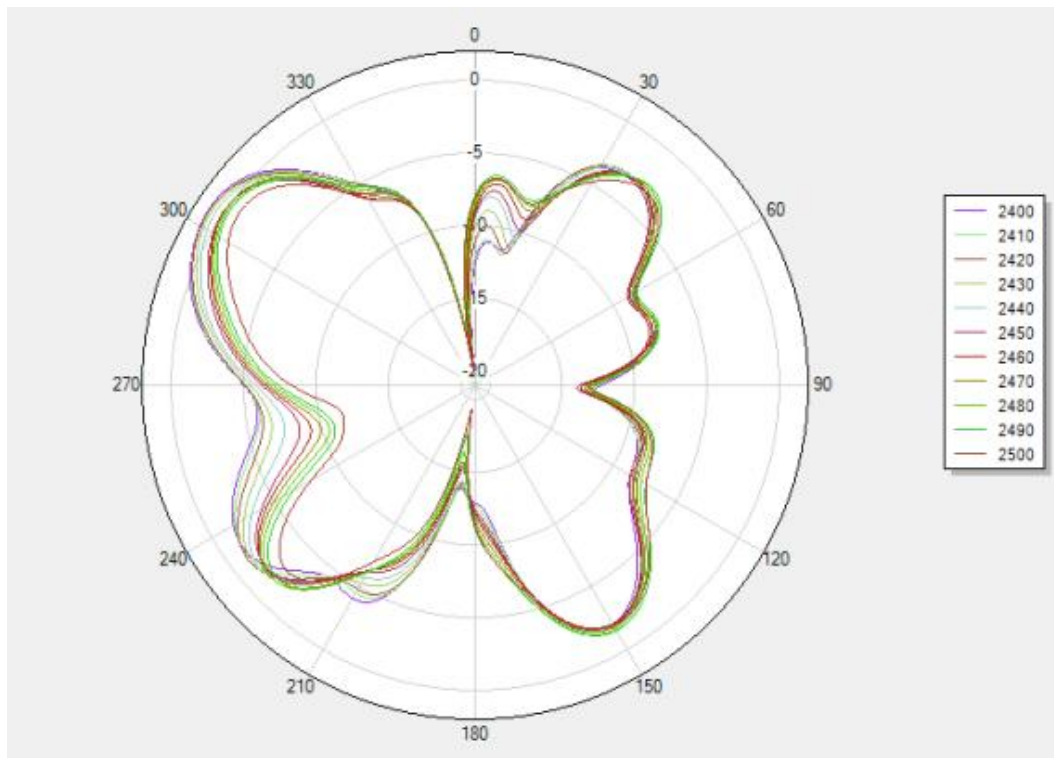
3.Test Results

3.1 Gain and Efficiency

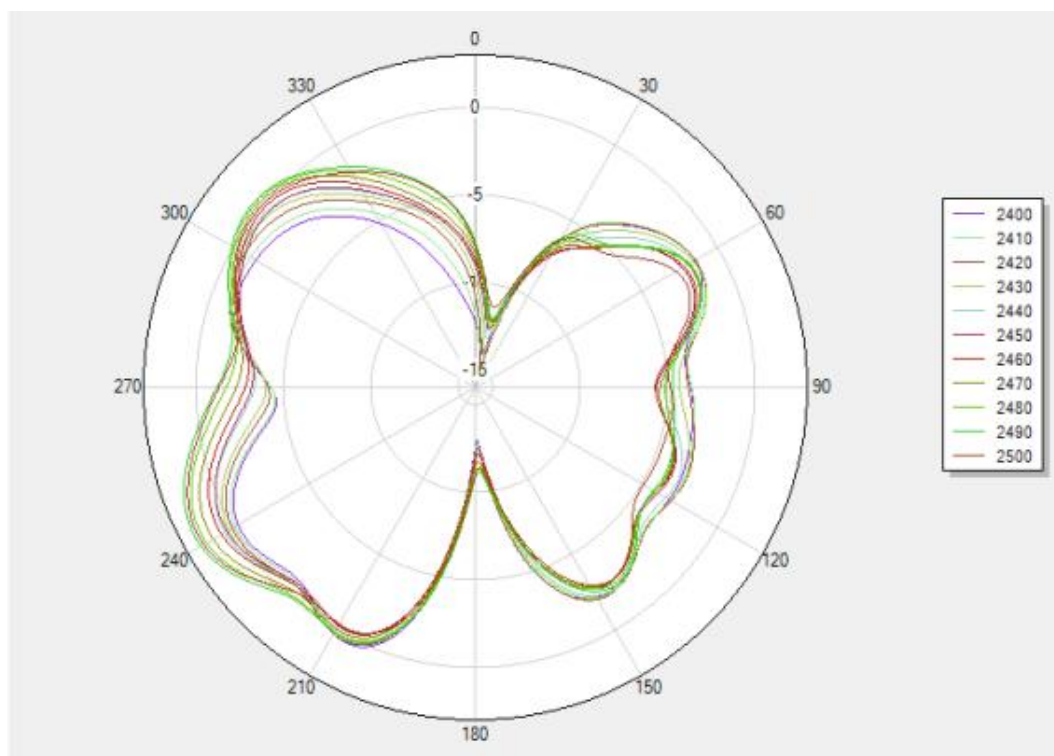
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.03	52.29
2410	-0.11	52.17
2420	-0.20	53.14
2430	0.24	54.16
2440	0.68	57.62
2450	0.52	59.64
2460	0.38	61.55
2470	0.09	60.64
2480	-0.54	62.86
2490	-1.30	59.85
2500	-1.49	60.41

3.2 Radiation Pattern

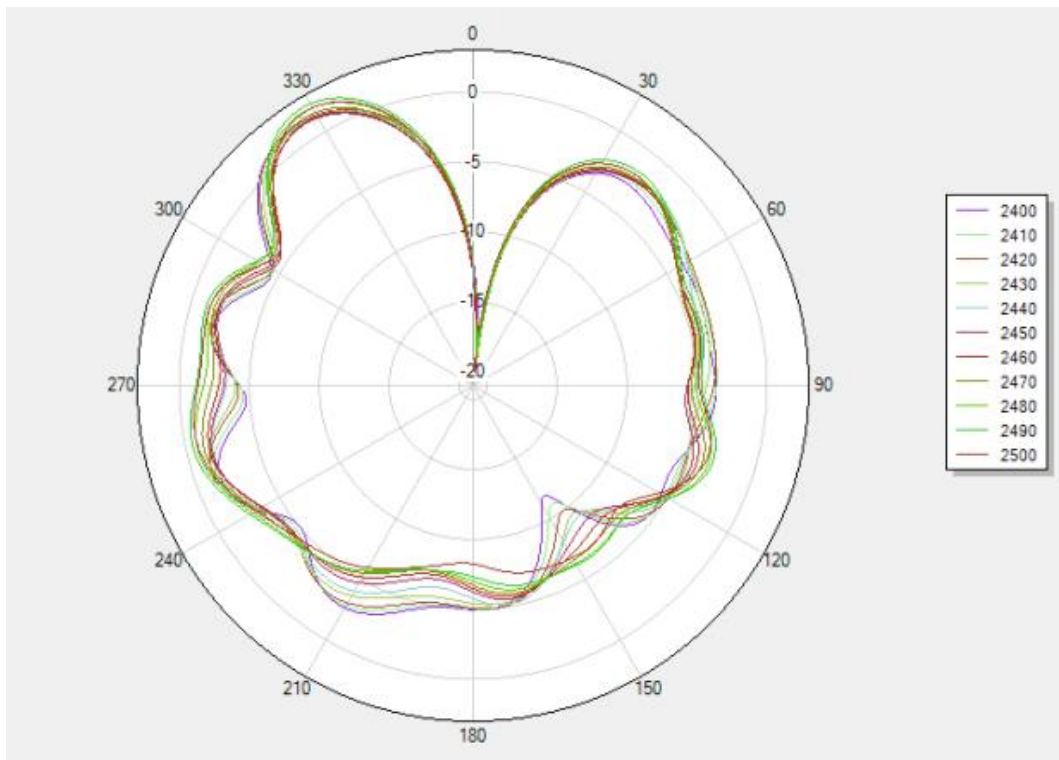
Phi 0 2D



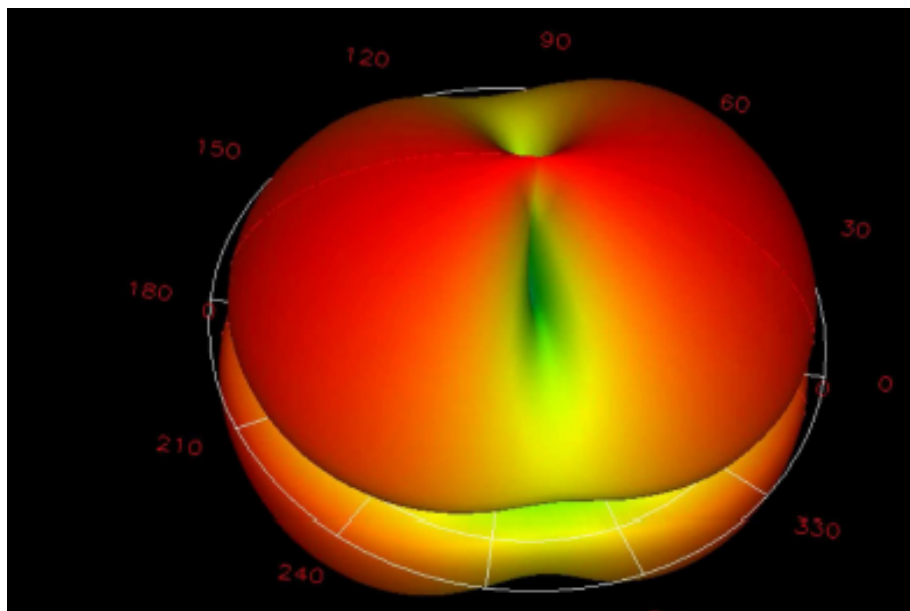
Phi 90 2D



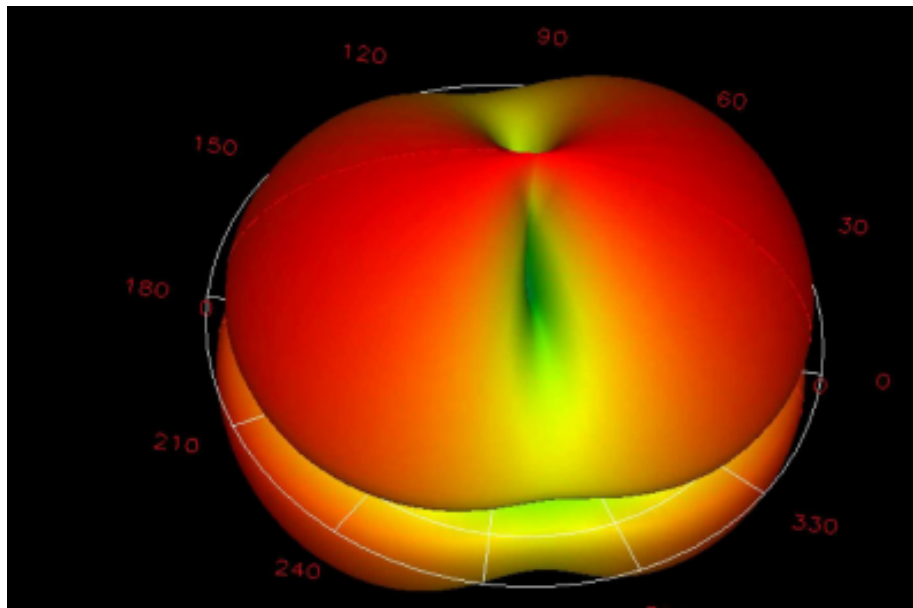
Theta 90 2D



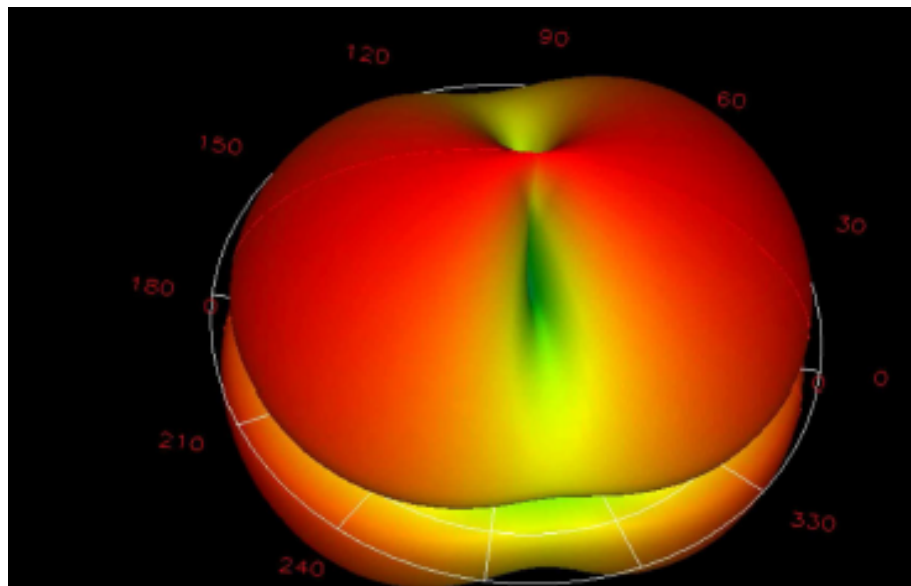
2400MHz 3D



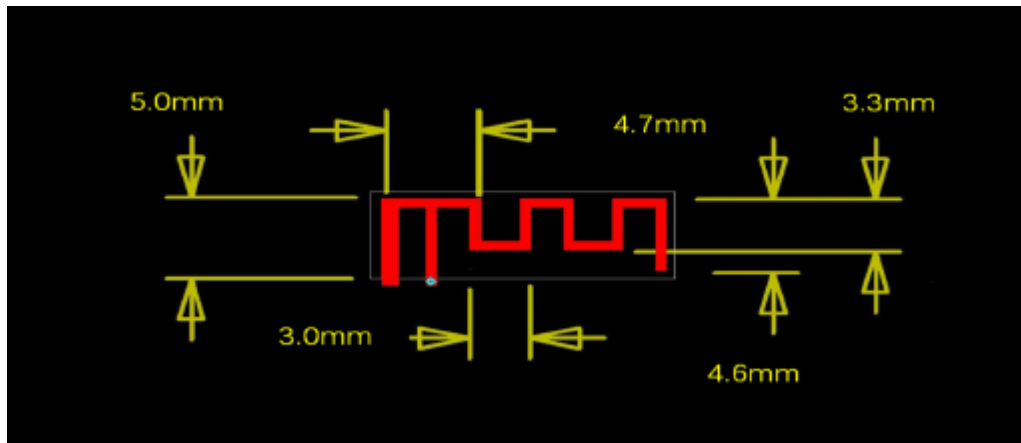
2450MHz 3D



2500MHz 3D



4. Antenna Dimensions



5. EUT Photo



6.Test Setup Photo

