



Antenna Specification

Manufacture: Shenzhen Lilixing technology company

Product Name: PCB Antenna

Model Number: HM-10-Ant

Antenna Type: PCB

Test Date: 2023.10.16

Tested by: Jianwei Wang

Approved by: Licco

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1.General Description

Manufacturer	Shenzhen Lilixing technology company
Address	201, No. 23, Zone 1, the Fifth Industrial Zone, Shangfen Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Test Location	Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Shenzhen
Product Name	PCB Antenna
Product model	HM-10-Ant
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

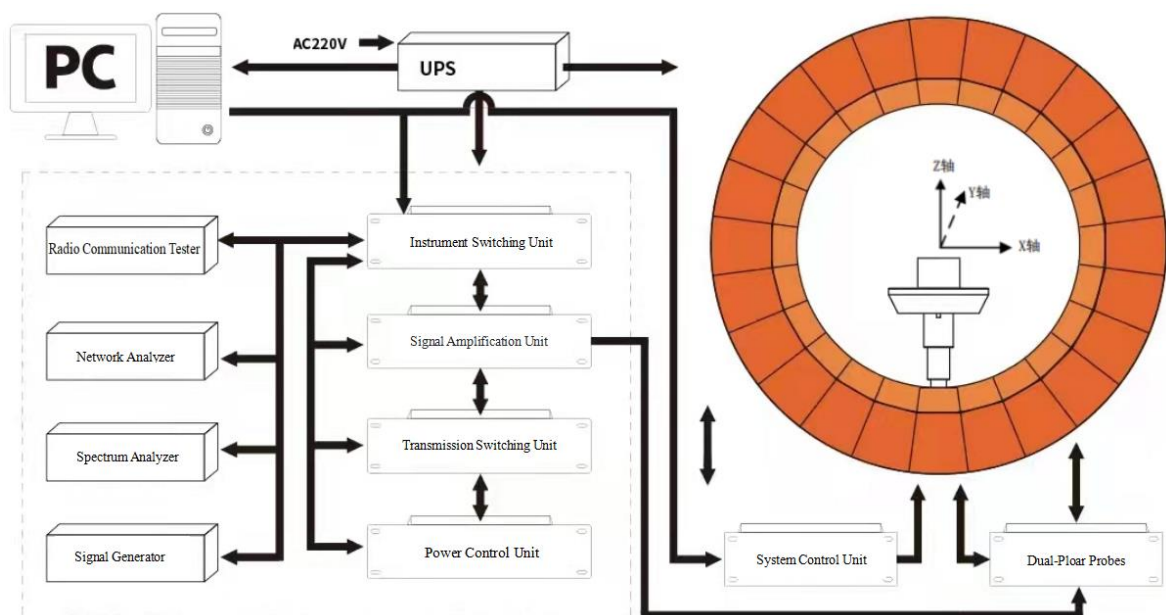
2.1 Test Environment

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





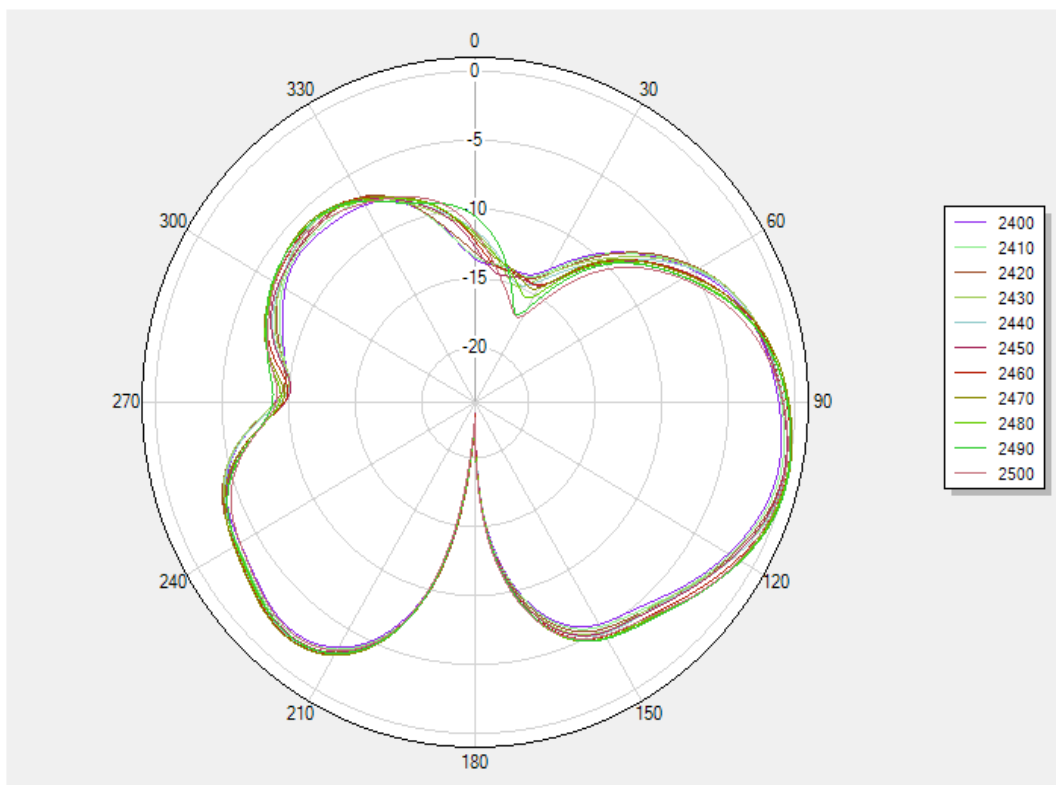
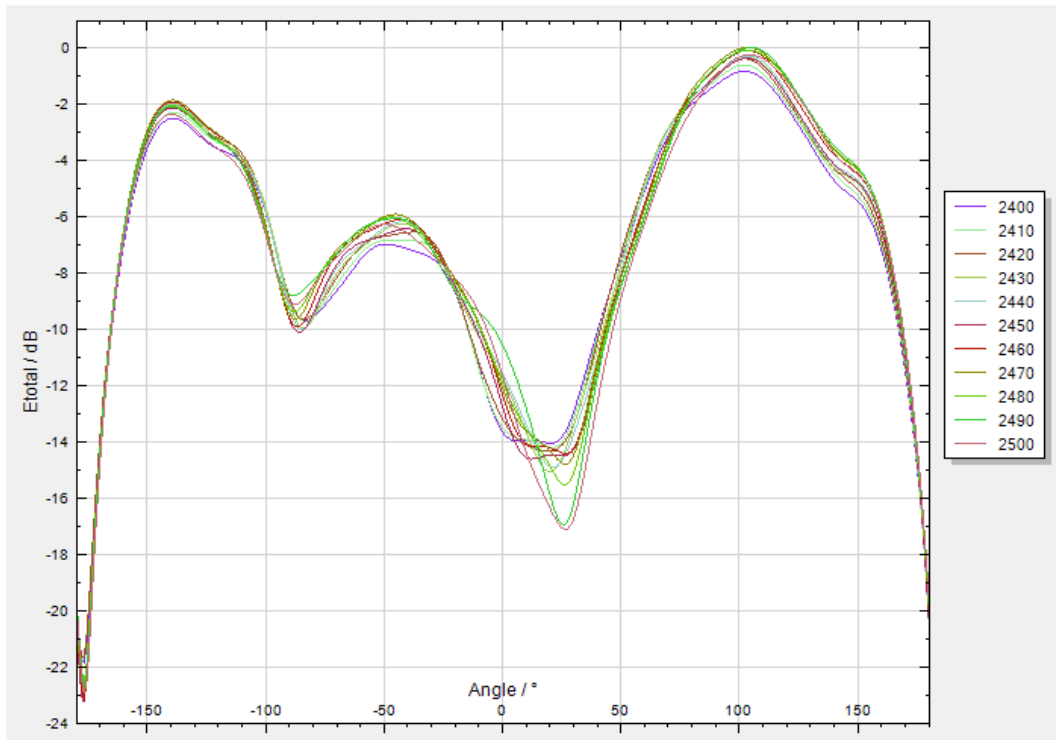
3.Test Results

3.1 Gain and Efficiency

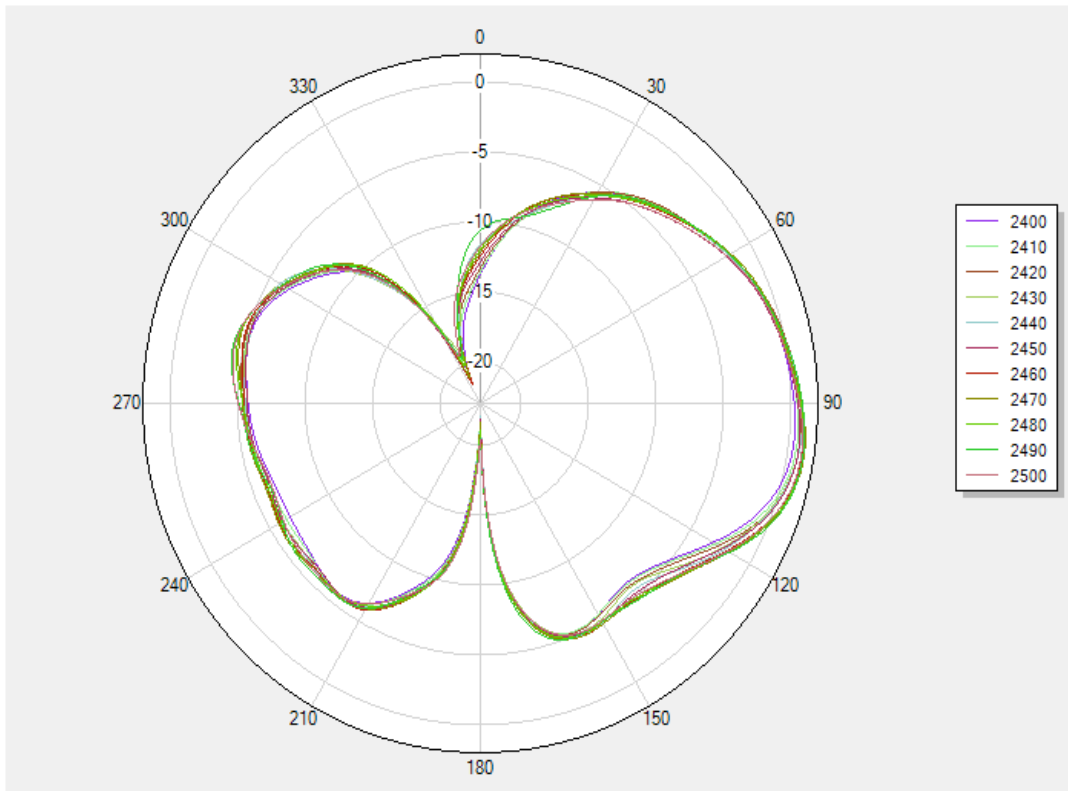
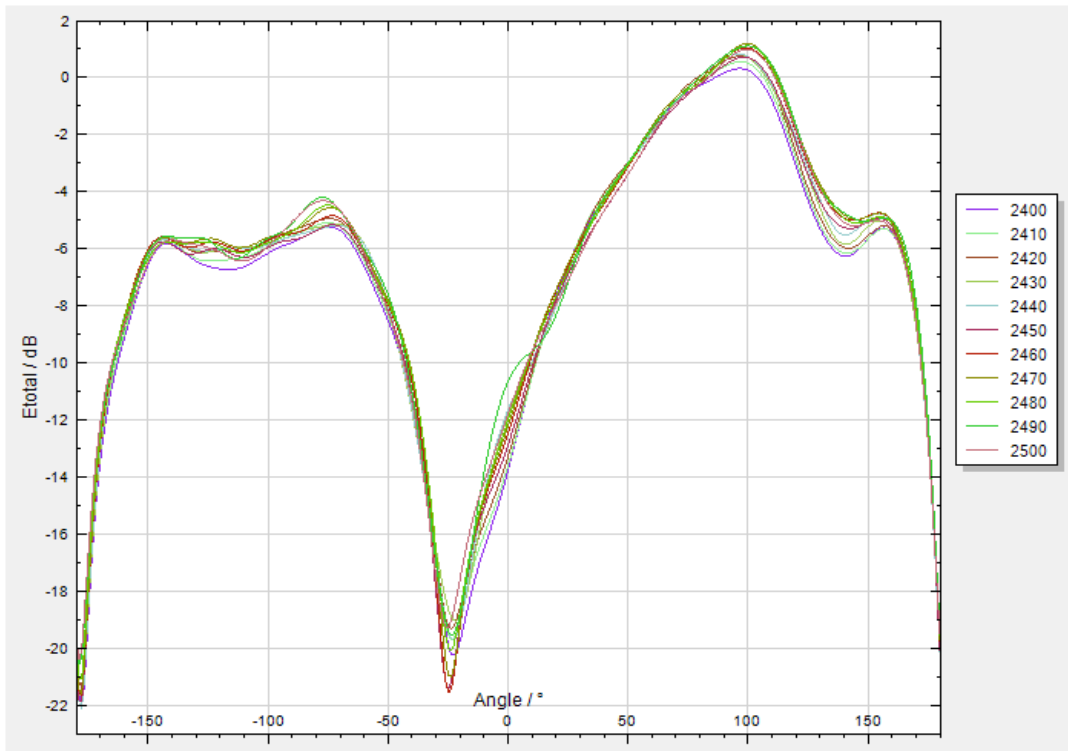
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.46	44.36
2410	0.71	45.71
2420	0.92	45.92
2430	0.91	45.6
2440	0.95	45.6
2450	0.93	45.29
2460	1.27	46.45
2470	1.37	46.88
2480	1.25	47.21
2490	1.24	46.67
2500	1.05	44.87

3.2 Radiation Pattern

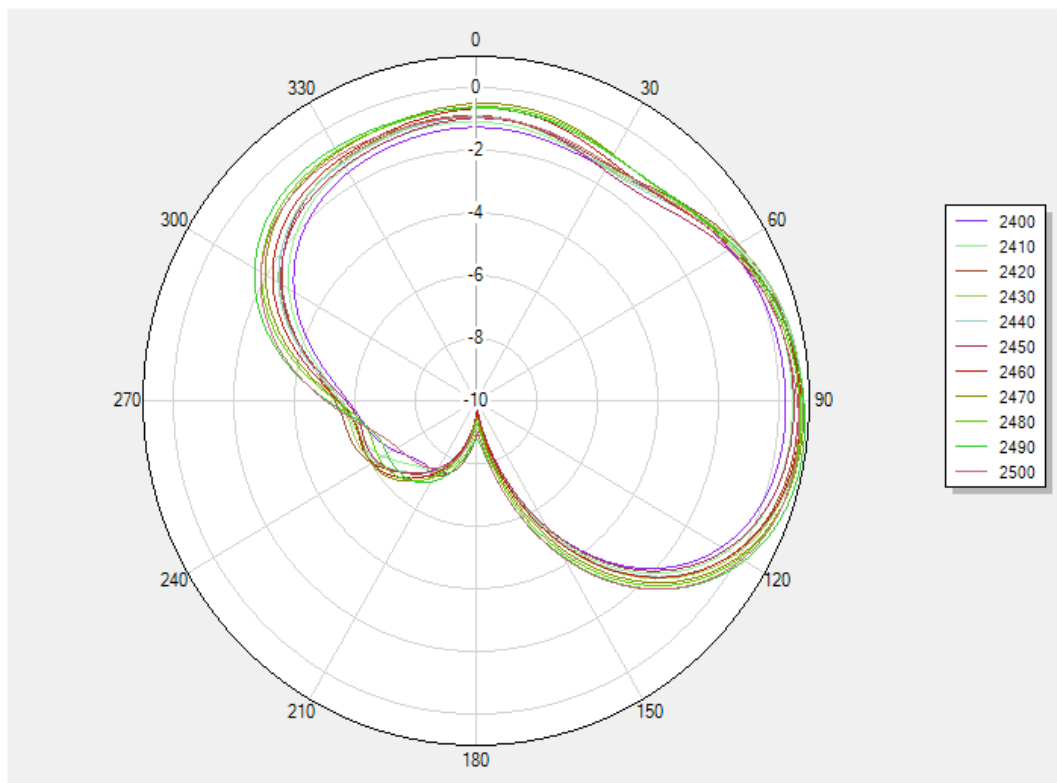
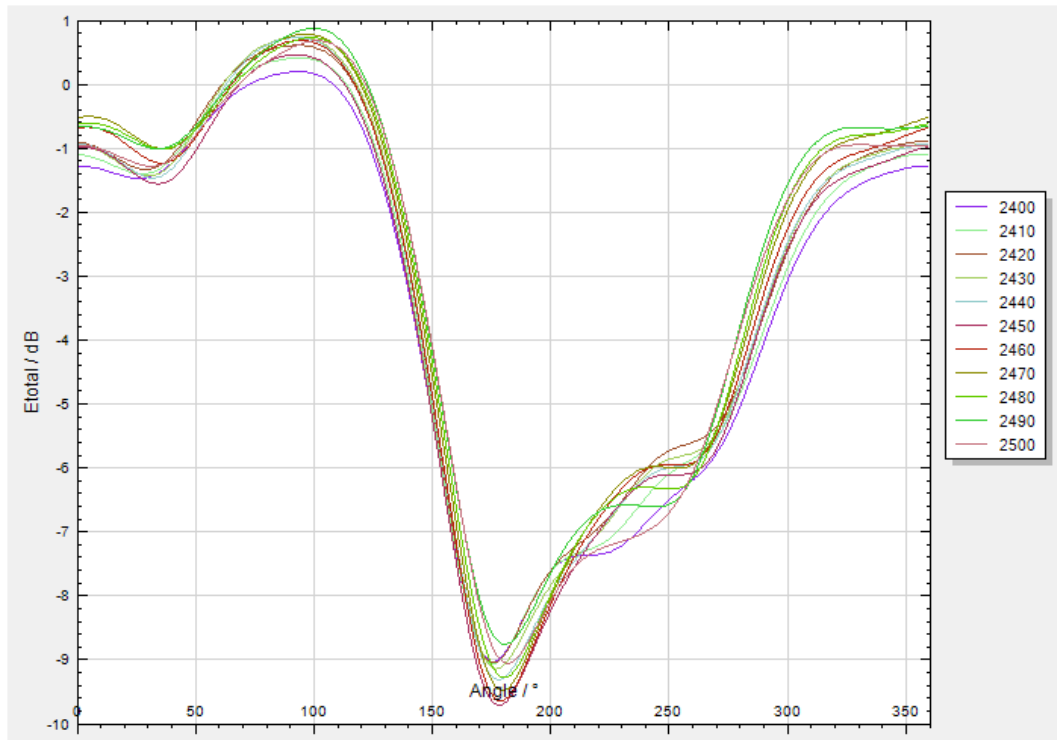
Phi 0



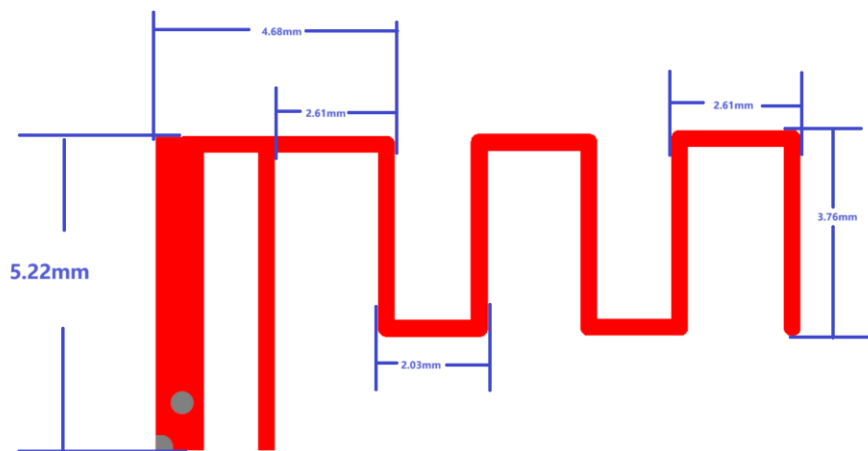
Phi 90



Theta 90



4. Antenna Dimensions



5. EUT Photo

