

Antenna Specification

Manufacture: **GUANGDONG ROULE ELECTRONICS CO. , LTD**

Product Name: RL-BT01 Antenna

Antenna Type: PCB

Test Date: 2023.09.07

Tested by: **Fenji Xu**

Approved by: **Jinfeng Wang**

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1. General Description

Manufacturer	GUANGDONG ROULE ELECTRONICS CO.,LTD.
Address	No. 12,Pingdong 3rd Road, Nanping Industry Community, Zhuhai City,GuangDong, China
Test Location	Role laboratory
Product Name	RL-BT01 Antenna
Product model	RL-BT01
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2. Test Configurations

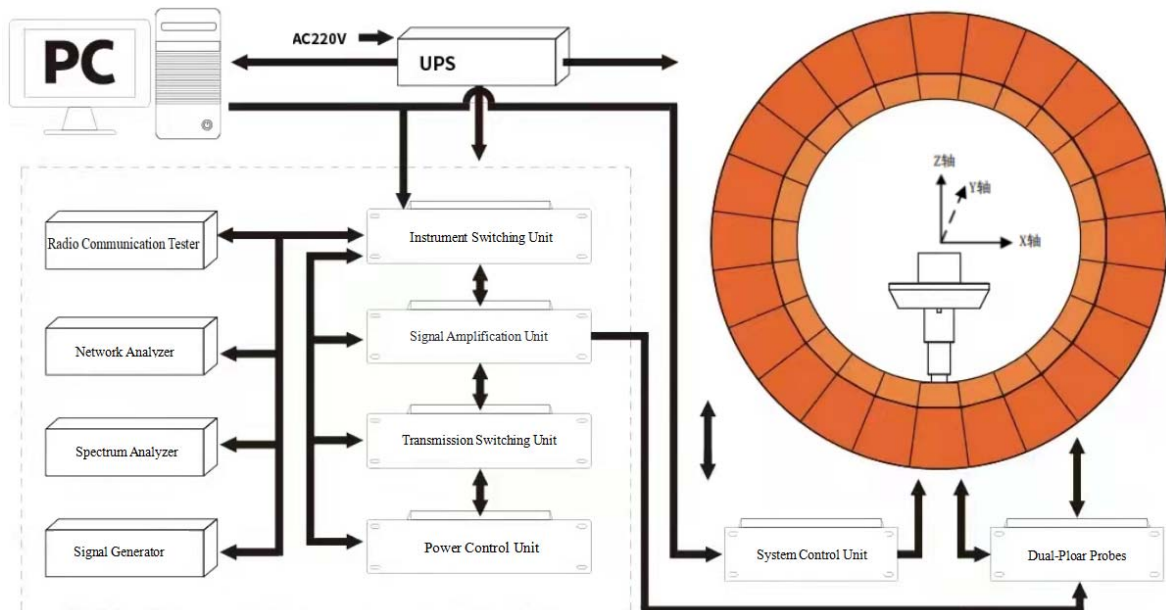
2.1 Test Environment

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



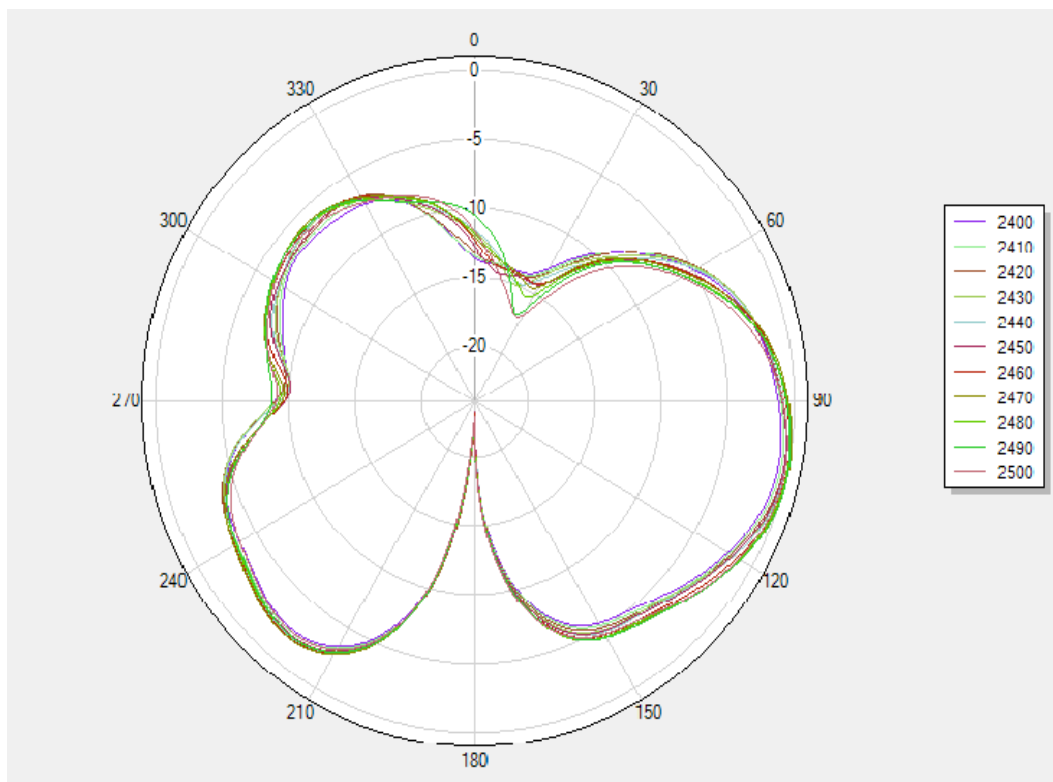
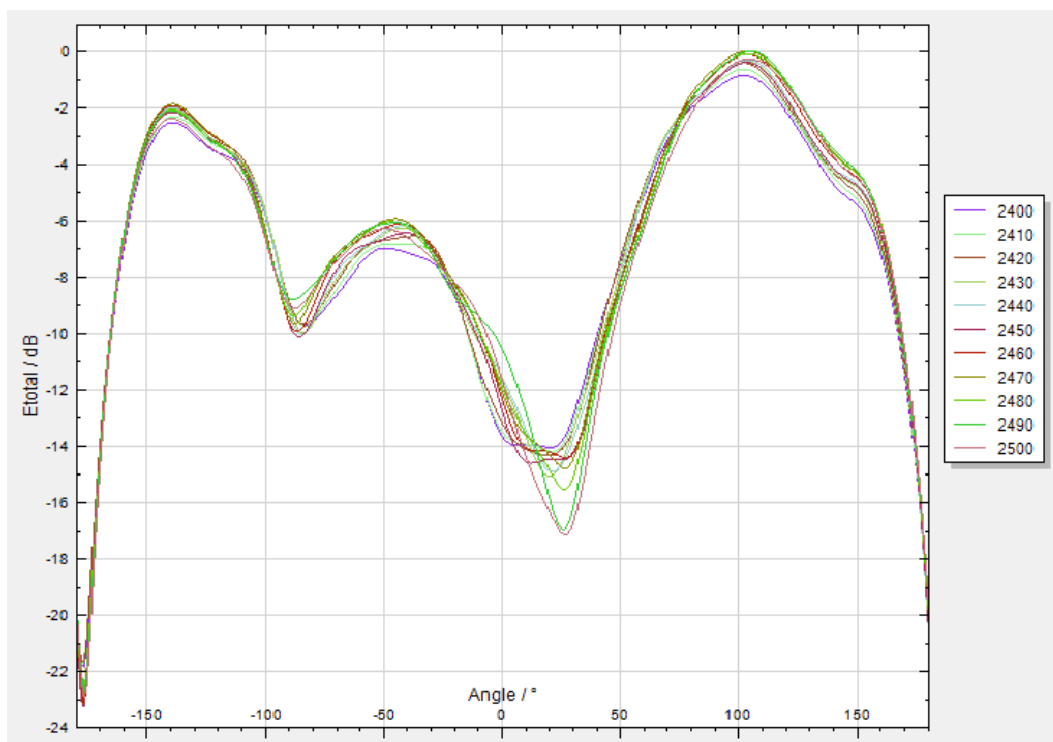
3. Test Results

3.1 Gain and Efficiency

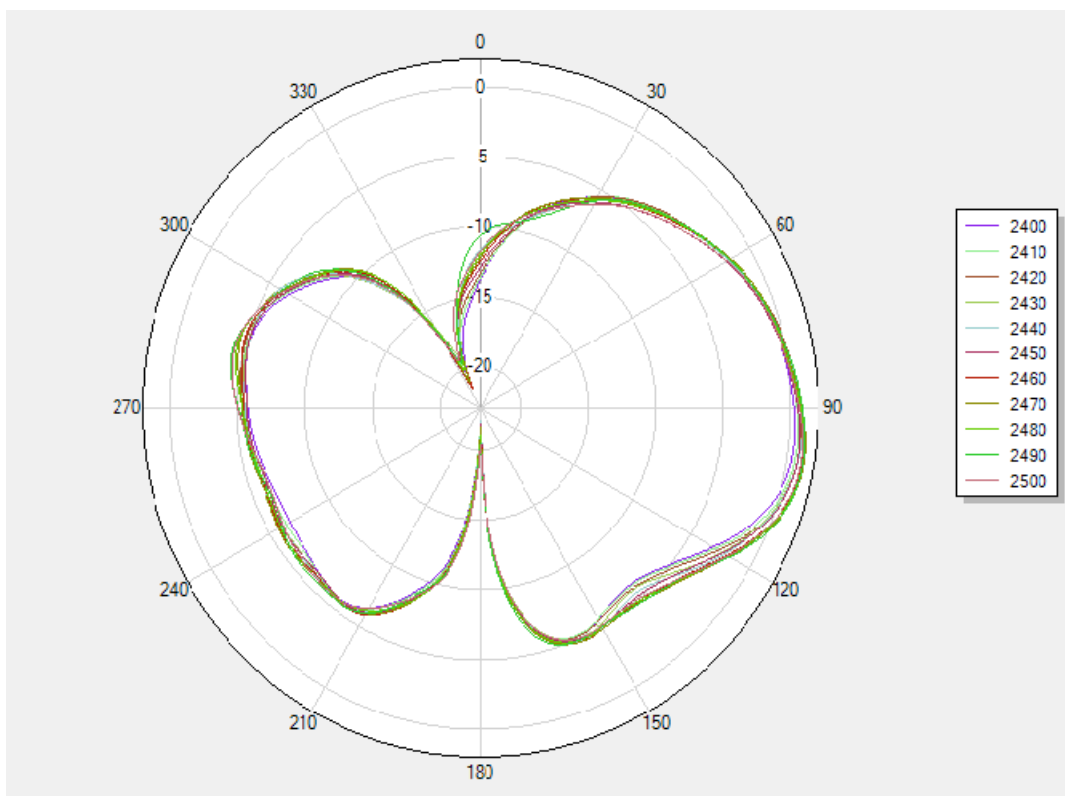
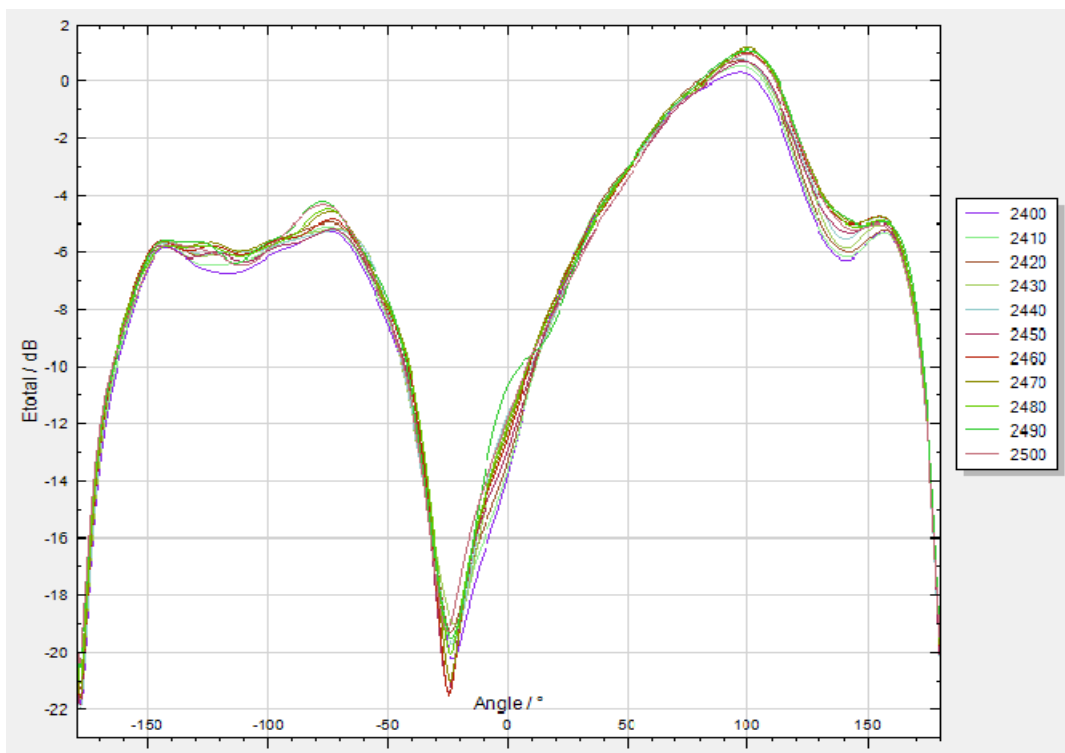
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.46	44.36
2410	0.71	45.71
2420	0.92	45.92
2430	0.91	45.6
2440	0.95	45.6
2450	0.93	45.29
2460	1.27	46.45
2470	1.37	46.88
2480	1.25	47.21
2490	1.24	46.67
2500	1.05	44.87

3.2 Radiation Pattern

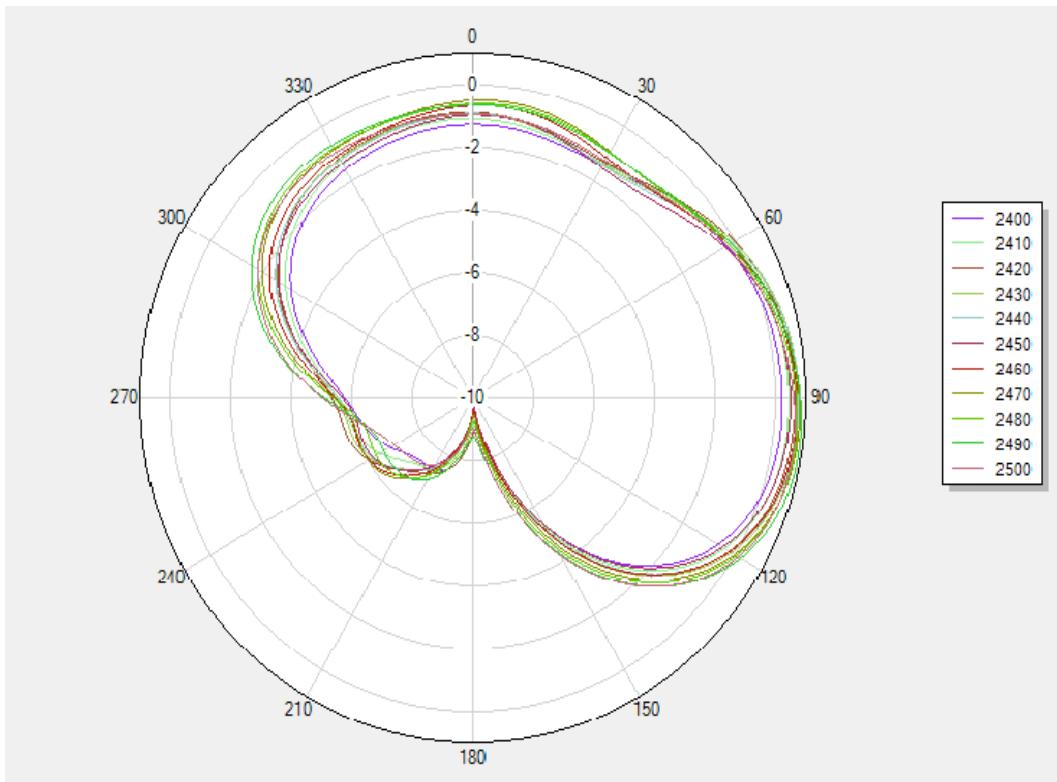
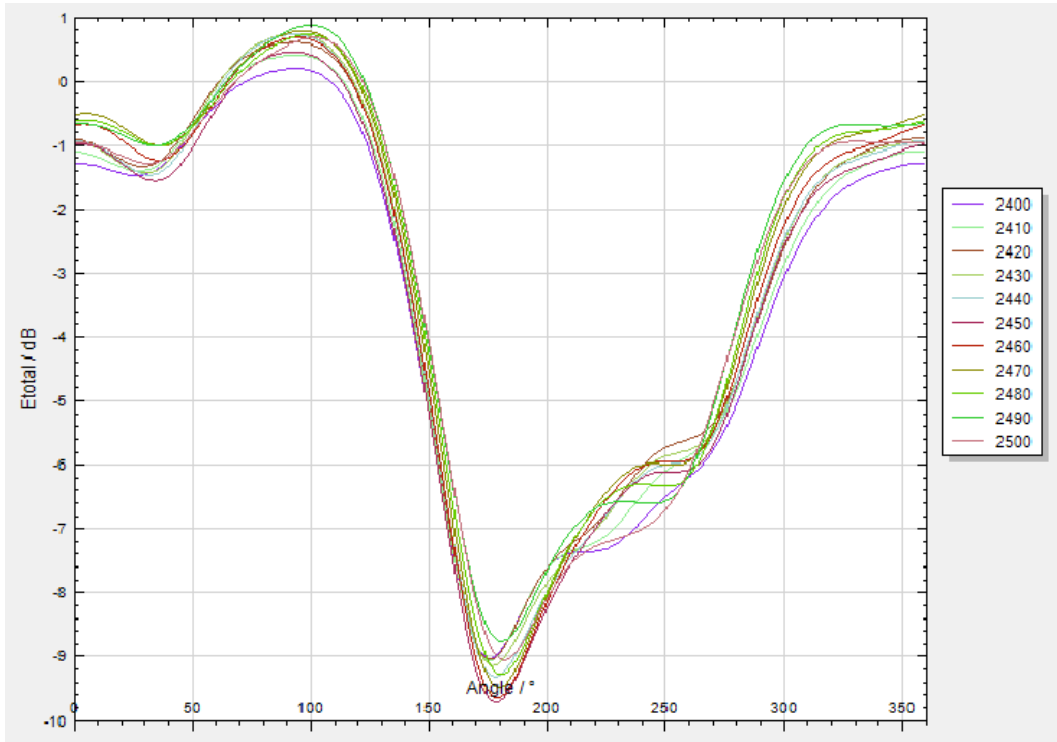
Phi 0



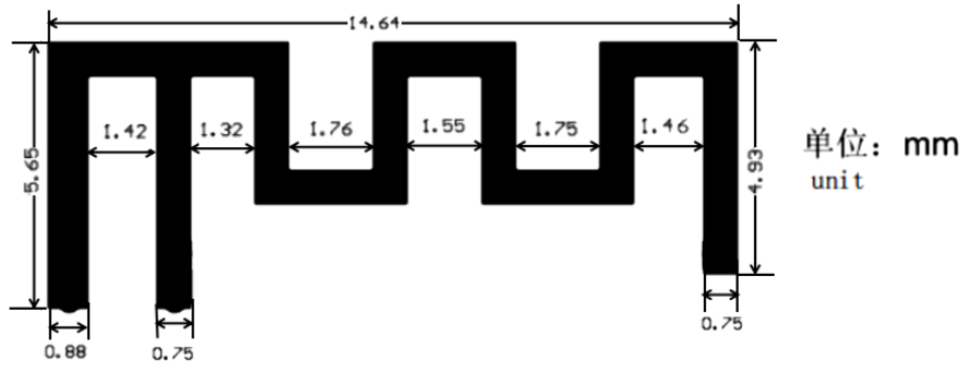
Phi 90



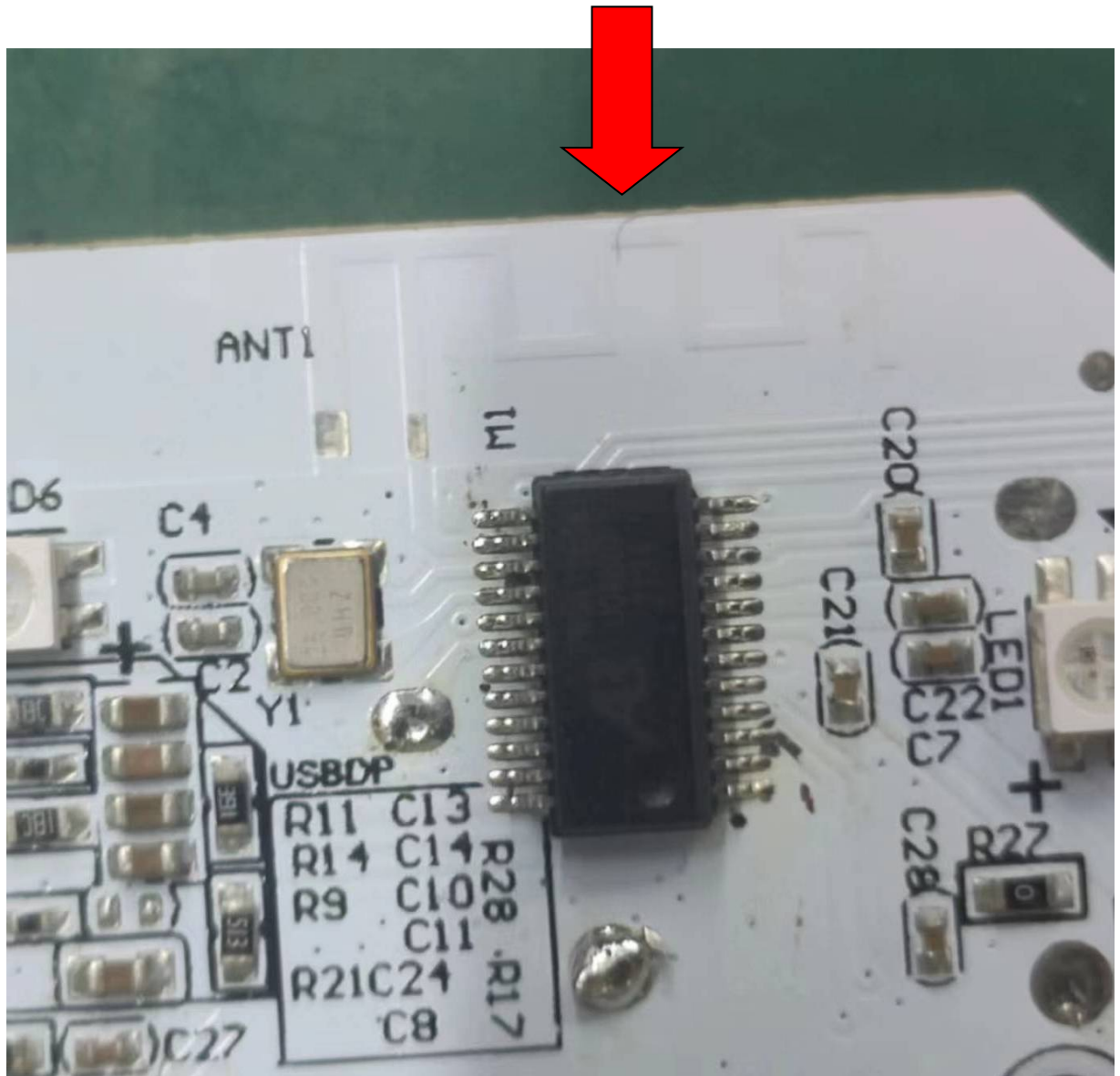
Theta 90



4. Antenna Dimensions



5.EUT Photo



6. Test Setup Photo

