Antenna Specification

Manufacture：TUYA

Product Name：CBU Antenna

Antenna Type：PCB

Test Date：2020.11.24

Tested by：Yinhua Zhang

Approved by：Licco

Content

1.General Description

Manufacturer	Hangzhou Tuya Information Technology Co.,Ltd
Address	Room 701,Building 3,More Center,No.87 GuDun Road, Hangzhou, Zhejiang,China
Test Location	Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Binjiang District, Hangzhou
Product Name	CBU Antenna
Product model	CBU
Antenna Type	PCB Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

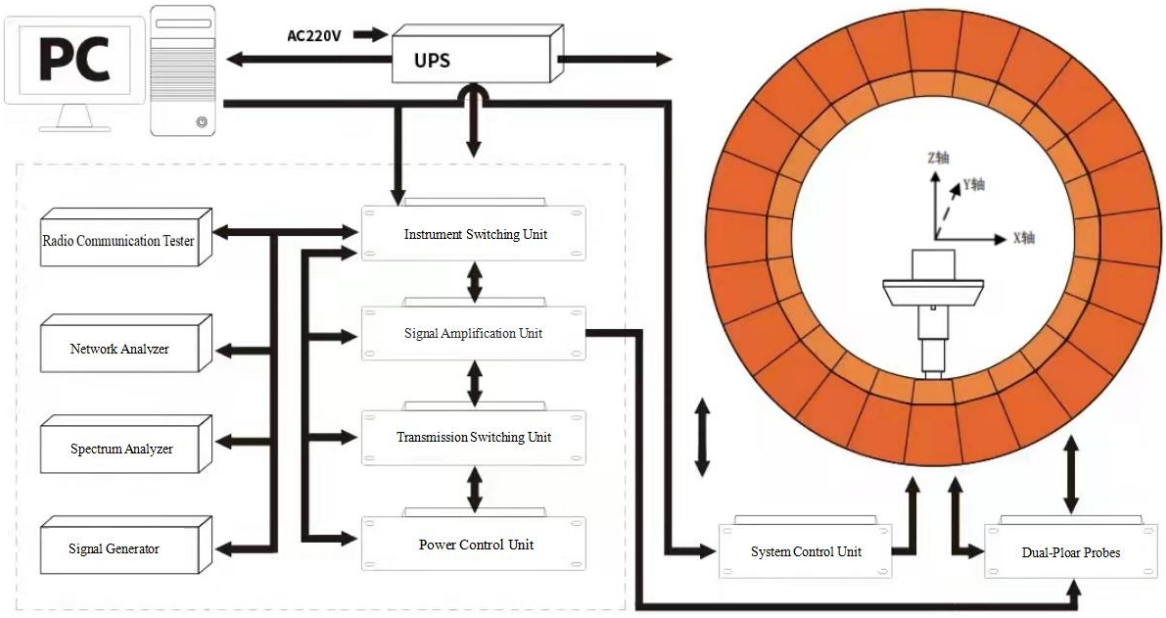
2.1 Test Environment

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



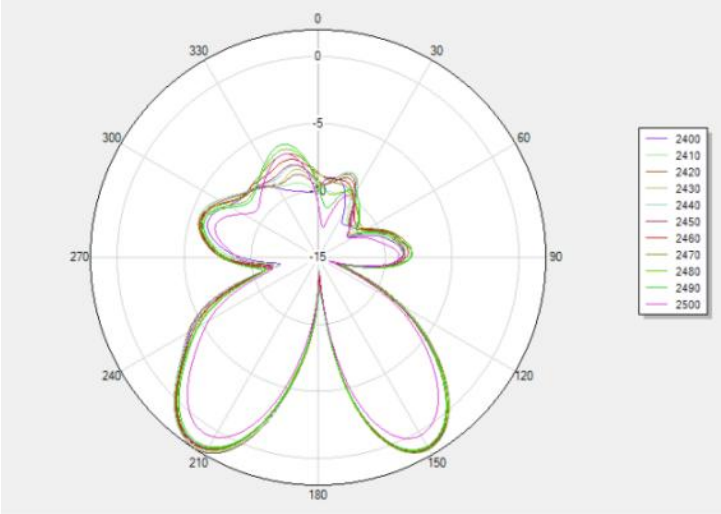
3.Test Results

3.1 Gain and Efficiency

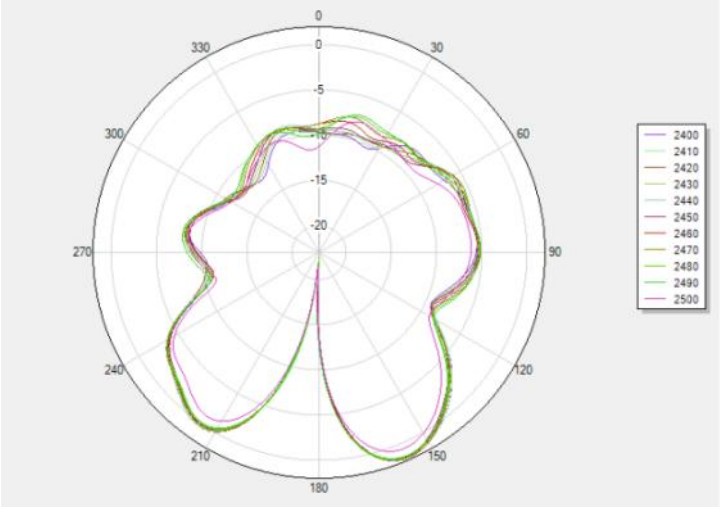
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	2.11	32.36
2410	2.18	32.3
2420	2.21	32.1
2430	2.06	32.4
2440	2.07	32.9
2450	1.91	30.9
2460	2.04	30.8
2470	2.09	30.7
2480	1.98	31.6
2490	1.91	30.6
2500	1.03	30.5

3.2 Radiation Pattern

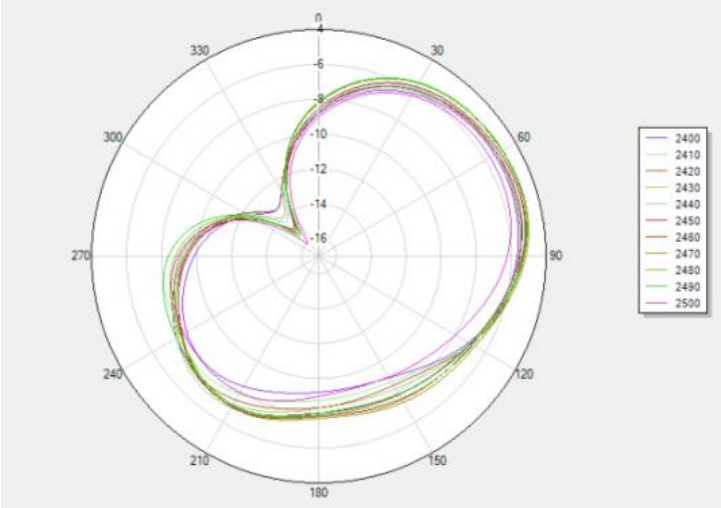
Phi 0 2D



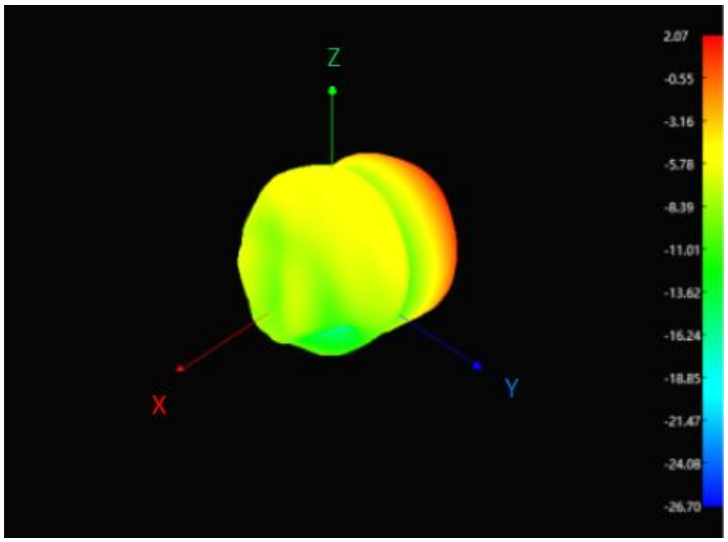
Phi 90 2D



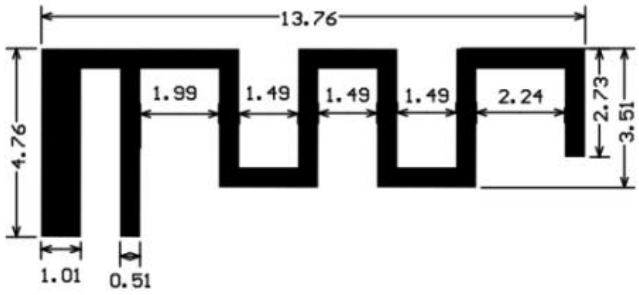
Theta 90 2D



2440MHz 3D



4.Antenna Dimensions



单位：mm

Unit

6.Test Setup Photo