



Antenna Specification

Manufacture: TUYA

Product Name: ZTC Antenna

Antenna Type: Monopole

Test Date: 2022.05.11

Tested by: Zhu Pei

Approved by: Licco



Content

1.General Description	1
2.Test Configurations	2
2.1 Test Environment	2
2.2 Test Equipment	2
2.3 Test Principle	2
3.Test Results	3
3.1 Gain and Efficiency	3
3.2 Radiation Pattern	4
4.Antenna Dimensions	6
5.EUT Photo	6
6.Test Setup Photo	7



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	ZTC Antenna
Product model	ZTC
Antenna Type	Monopole Antenna
Test Items	Gain; Efficiency; Radiation Pattern
Test Frequency	2400-2500MHz
Test Standard	ANSI/IEEE Std 149-1979

2.Test Configurations

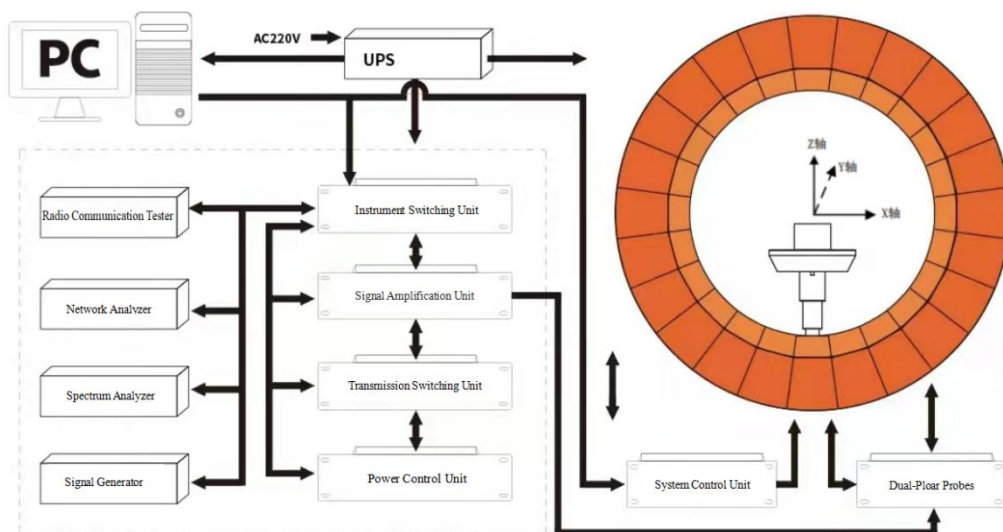
2.1 Test Environment

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

2.2 Test Equipment

Test System	Microwave Chamber 5m*5m*4m
Test Software	Passive Test 
Software Version	V2.7.0
Test Instrument	Agilent E5071B

2.3 Test Principle





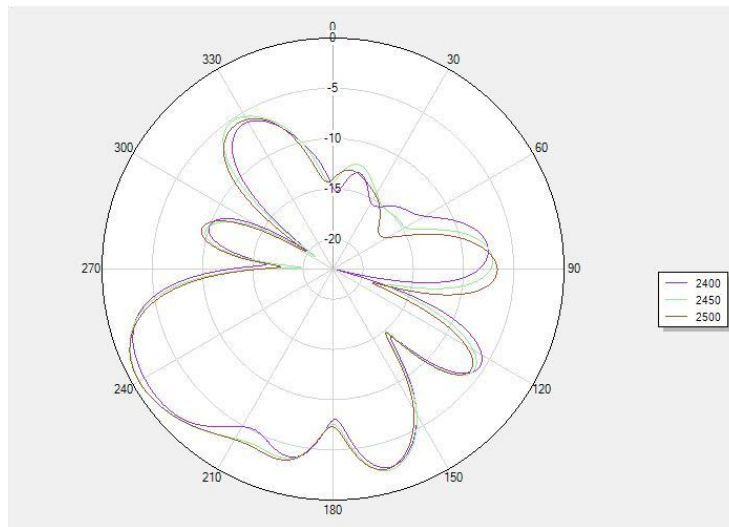
3.Test Results

3.1 Gain and Efficiency

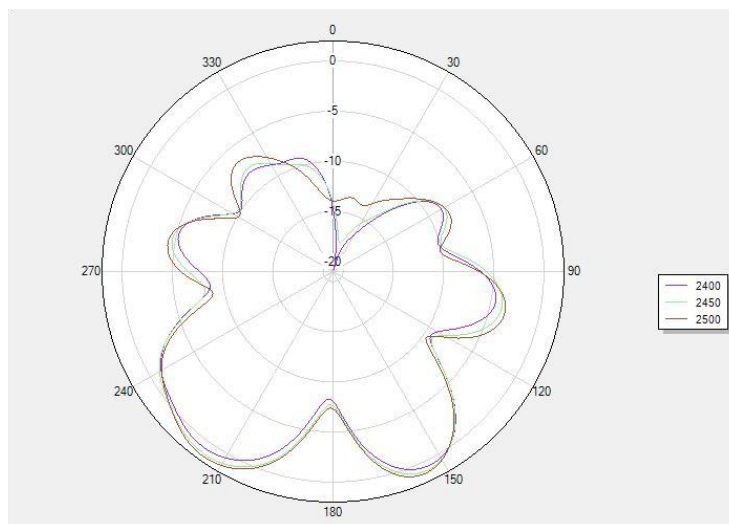
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	1.41	33.81
2410	1.49	33.73
2420	1.71	34.12
2430	1.73	34.12
2440	1.95	34.75
2450	2.15	35.56
2460	2.09	35.24
2470	2.44	36.48
2480	2.34	35.56
2490	2.54	35.89
2500	2.47	35.48

3.2 Radiation Pattern

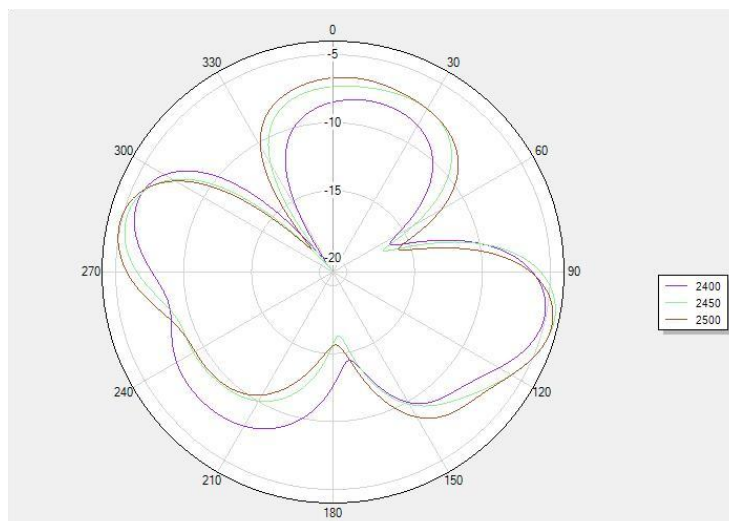
Phi 0 2D



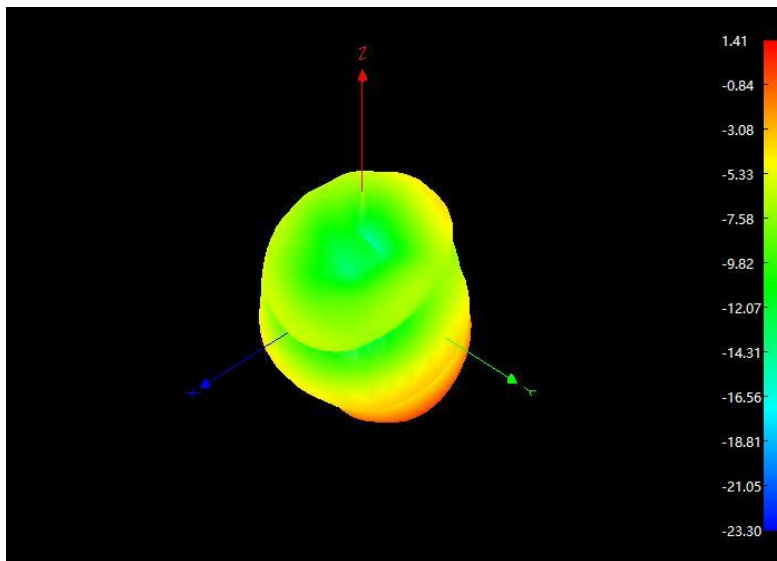
Phi 90 2D



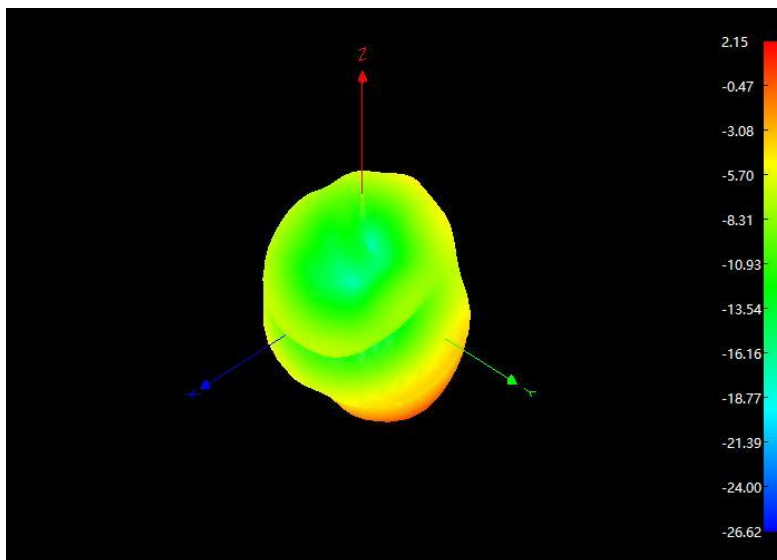
Theta 90 2D



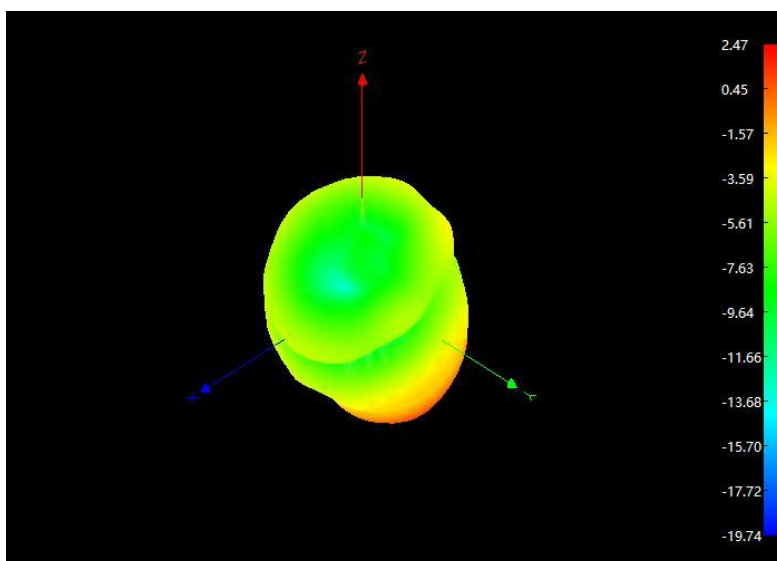
2400MHz 3D



2450MHz 3D



2500MHz 3D



5.EUT Photo

