

Dongguan Siyou Communication Electronics Co.LTD

Test Report

Commissionunit:DongguanSiyouCommunication Electronics Co.LTD

Address:No.116, West Road, Tangxia Town, Dongguan City, Guangdong

Product Name: antenna

Test Mode: Microwave darkroom network analyzer

TestingTime: On February 25,2025

审核:



1. Summary :

This report to account for the measurement setup and result of the Antenna. The measurement setup includes s-parameter, The measured data for Antenna are presented and analysis.

2. S-Parameter Measurement S :

A. Reflection coefficient :

(a) Instrument: Network Analyzer.

(b) Setup

- (1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.
- (2) Connect the antenna under test to the Network Analyzer.
- (3) Measure the S11(reflection coefficient) shown in Fig. 1.
- (4) Generally, the S11 is less than -10dB to ensure the 90% VSWR 2.0:1 power into antenna and only less than 10% power back to system.

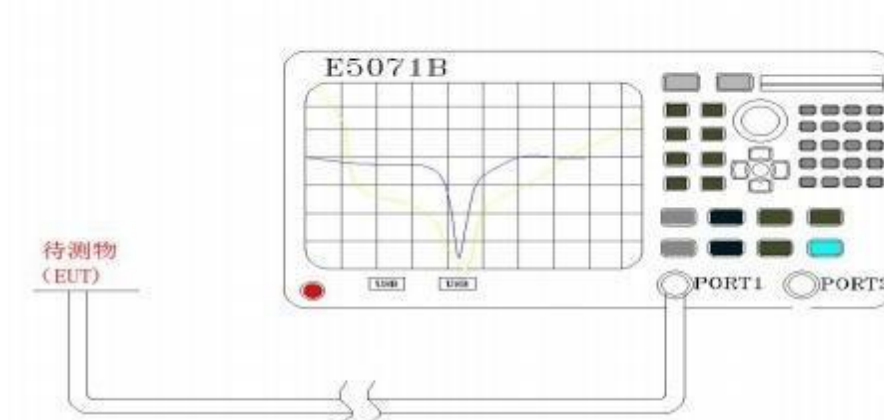
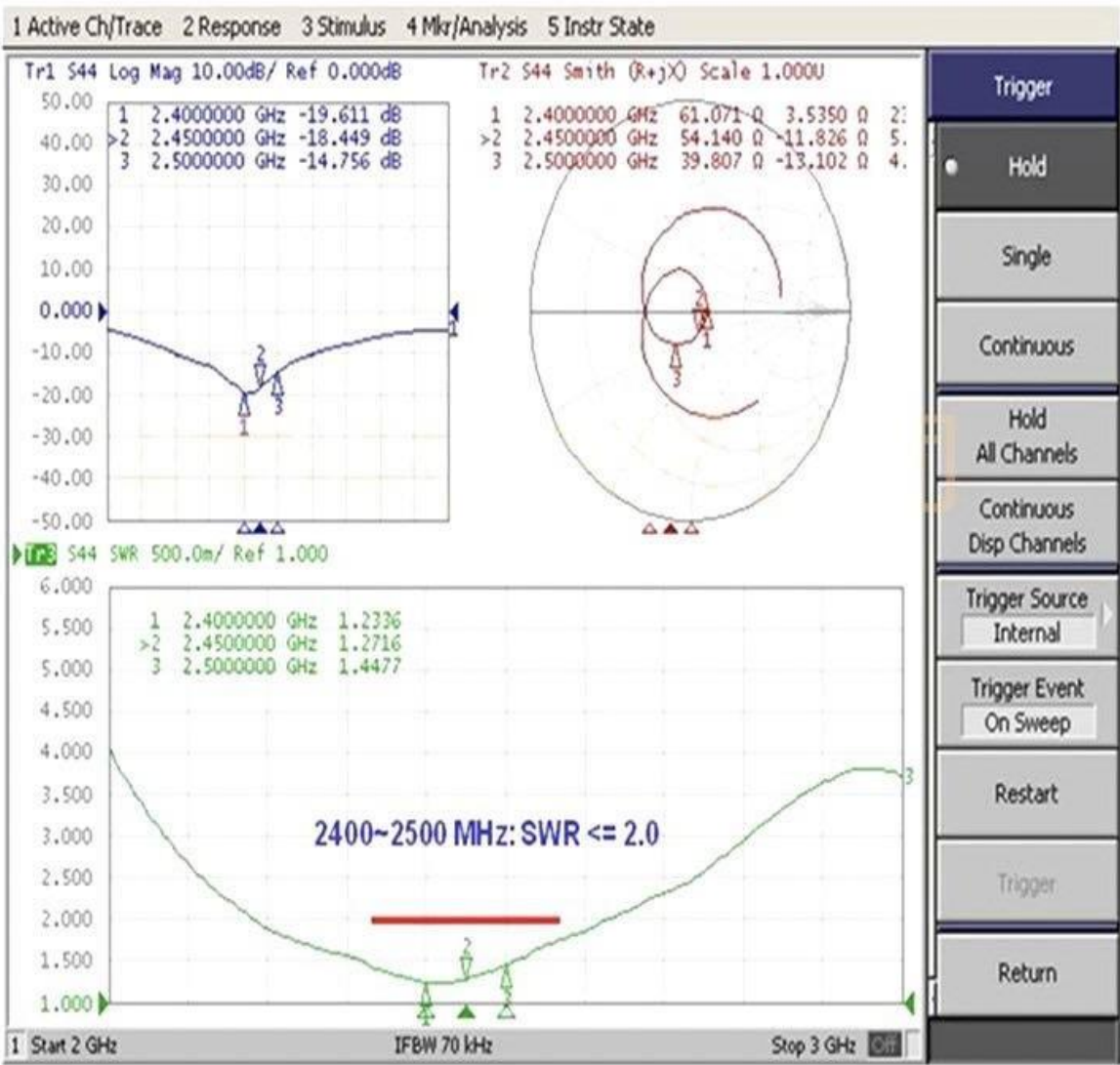


Fig.1 Antenna measured in Network Analyzer

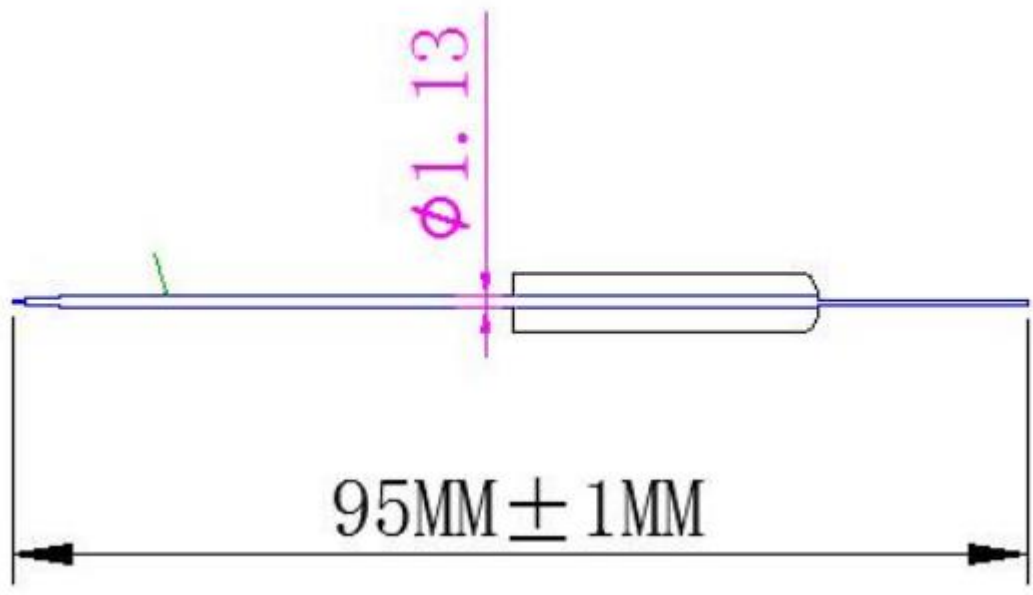
3. S-Parameter Measurement Result S

S-Parameter test image S

Electrical Performance-S.W.R.



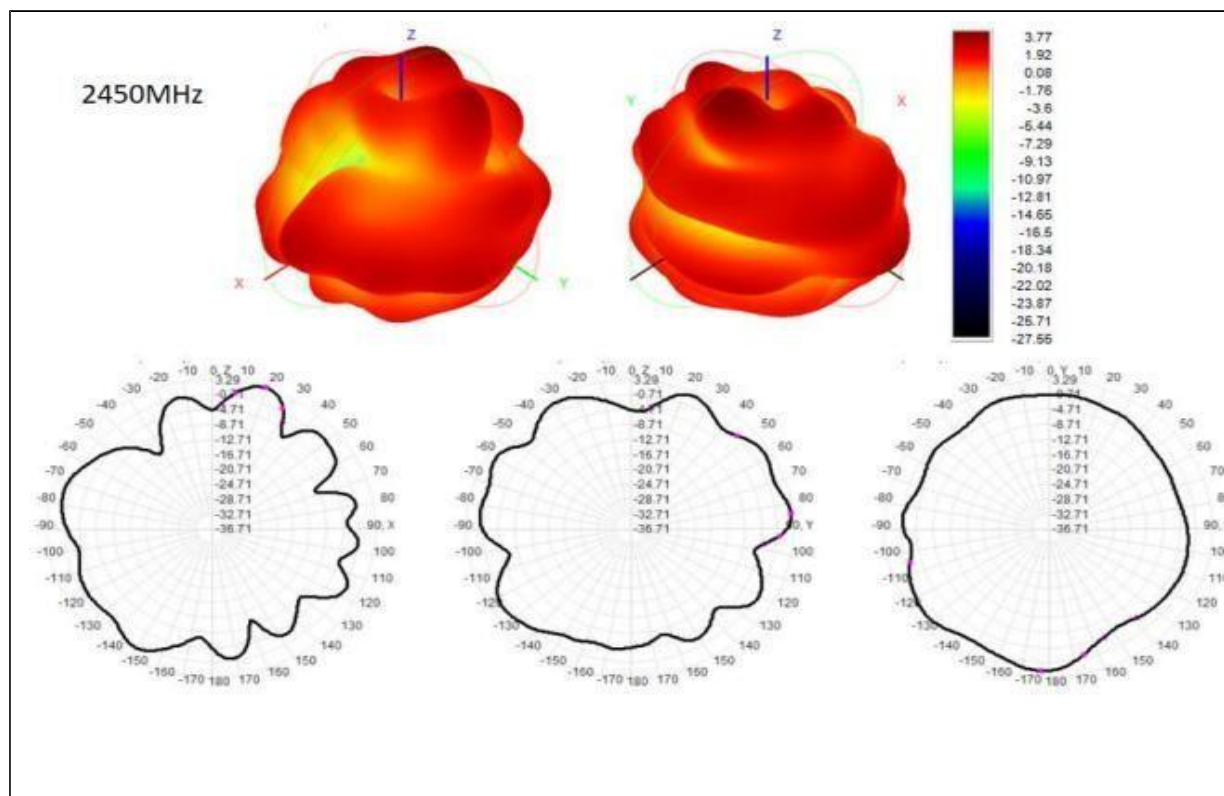
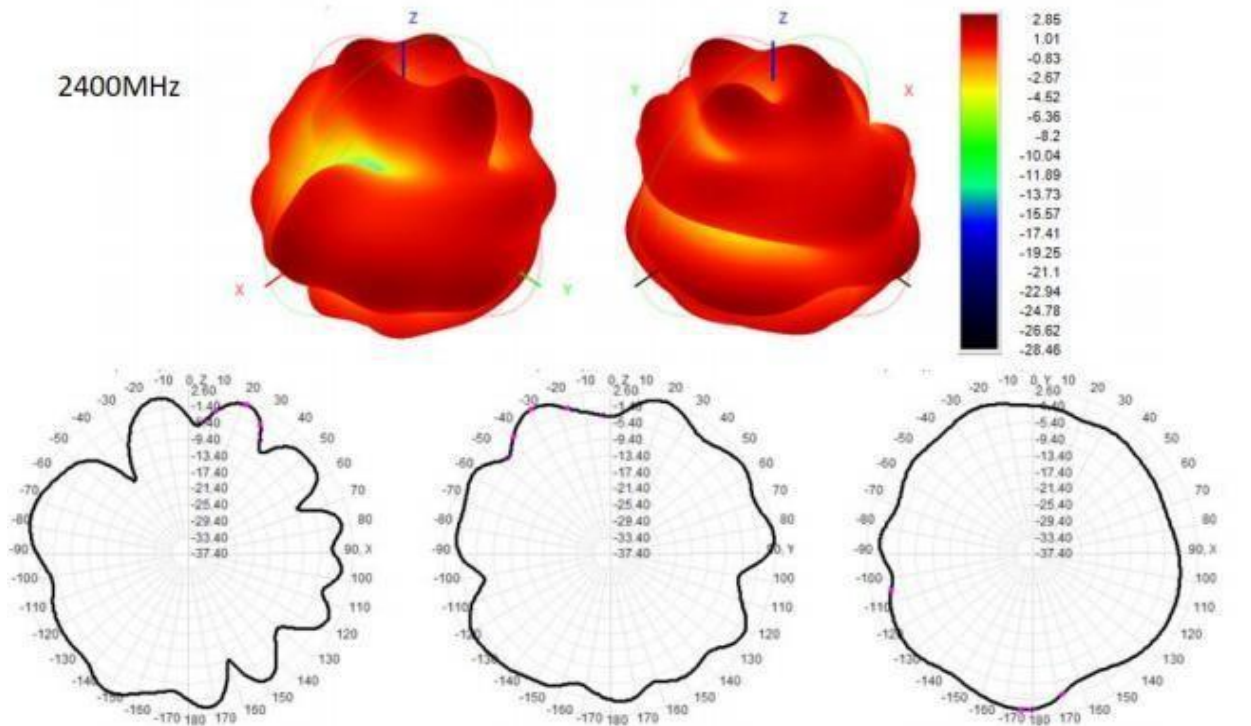
Antenna appearance:



Passive value:

Frequenc Range	2400~ 2500MHz
Ant.Port Input Pwr. (dBm)	0(Typ.BT class 2 output power)
Tot. Rad. Pwr. (dBm)	-1.3(Input pwr-loss pwr)
Peak EIRP(dBm)	1.2
Directivity(dBi)	1.2(all direction antenna)
Efficiency(dB)	72.2%
Gain(dBi)	4.31
Maximum Power(dBm)	1.5(XZ-plane)
Minimum Power(dBm)	-4.8(XZ-plane)
Avg. Power (dBm)	-0.5(XY-plane)
Input Impedence(ohm)	50 Ω
Polarization Type	V ertical &Horizontal

2D、3D



2500MHz

