

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.

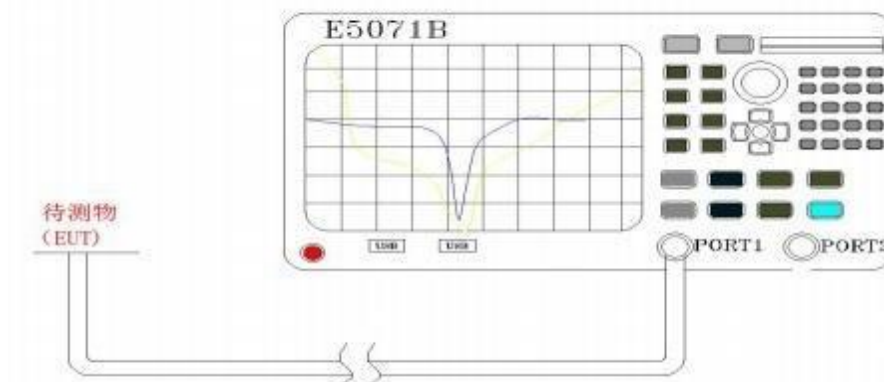
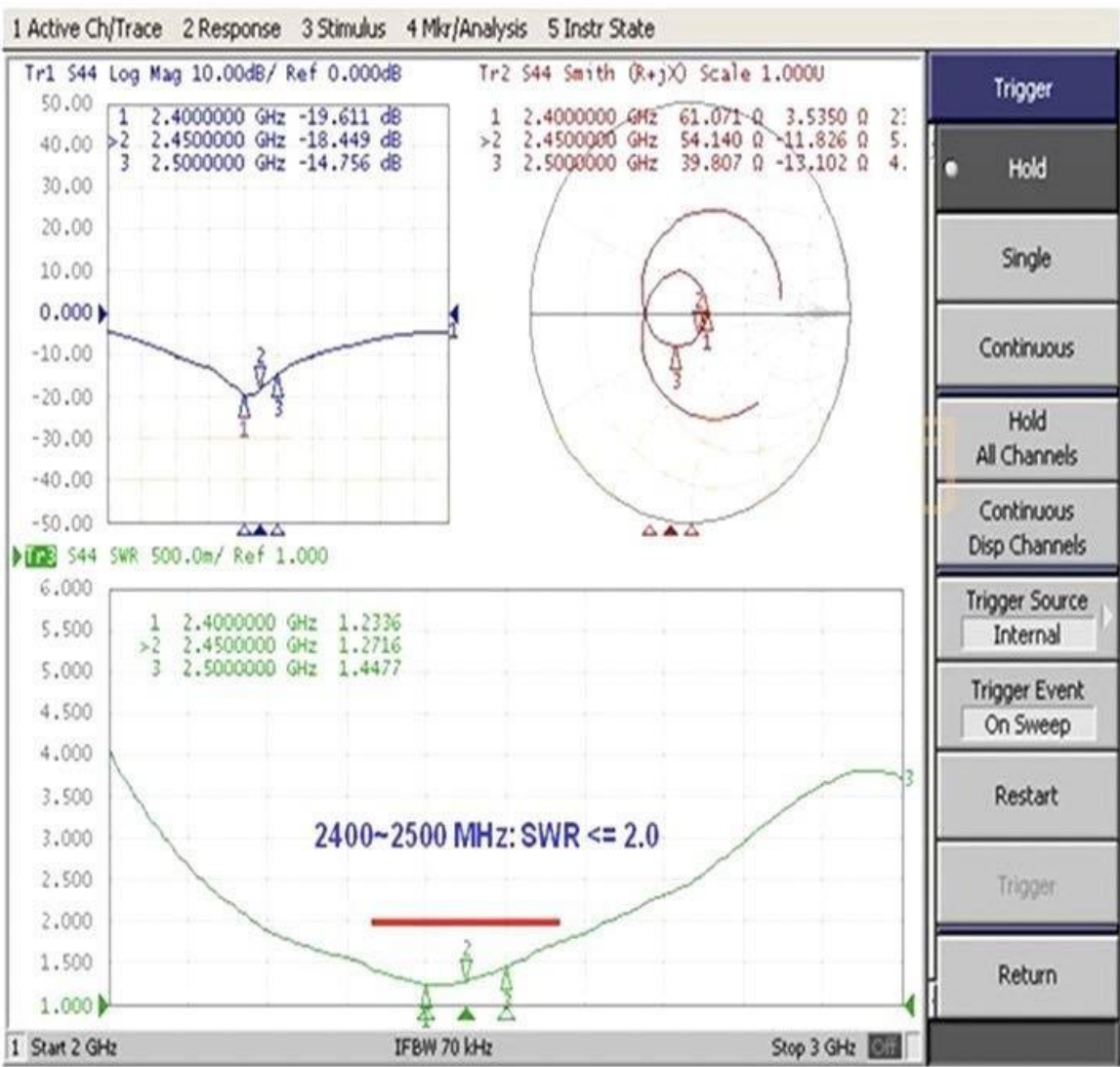


Fig.1 Antenna measured in Network Analyzer

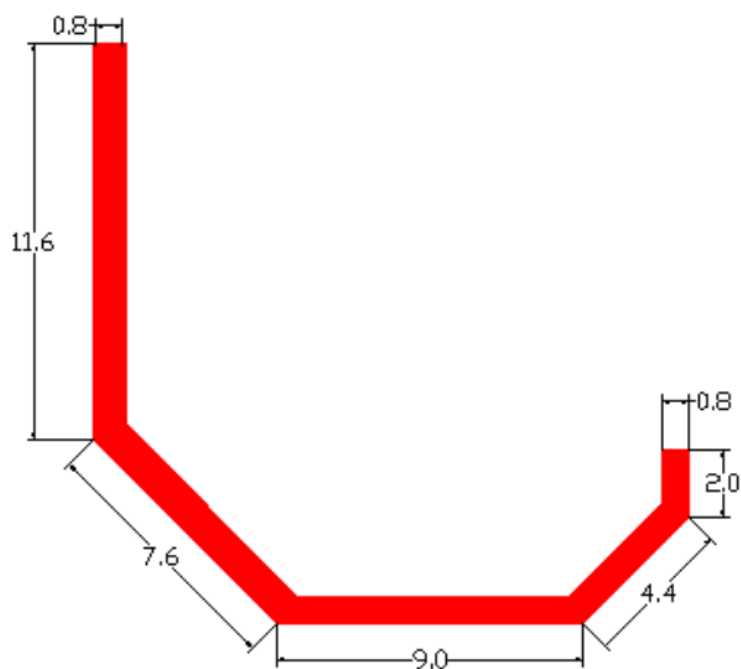
3. S-Parameter Measurement Result S

S-Parameter test image S

Electrical Performance-S.W.R.



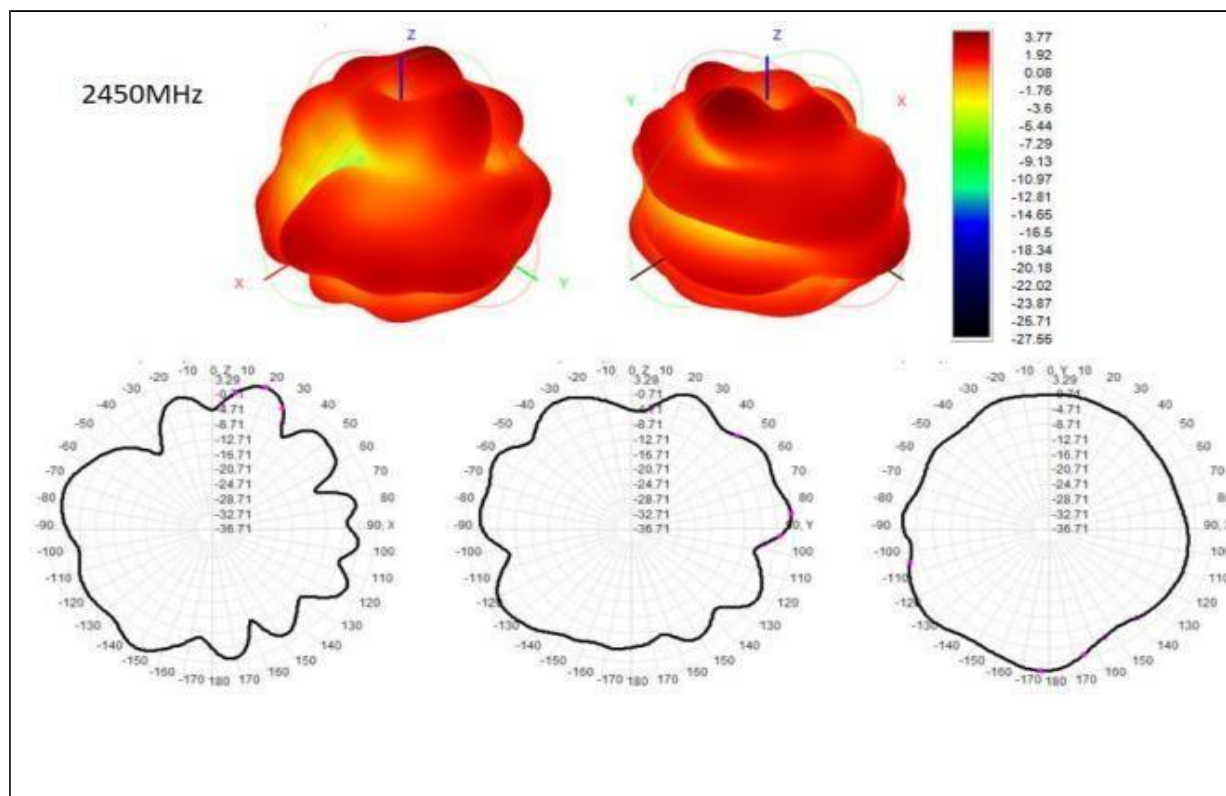
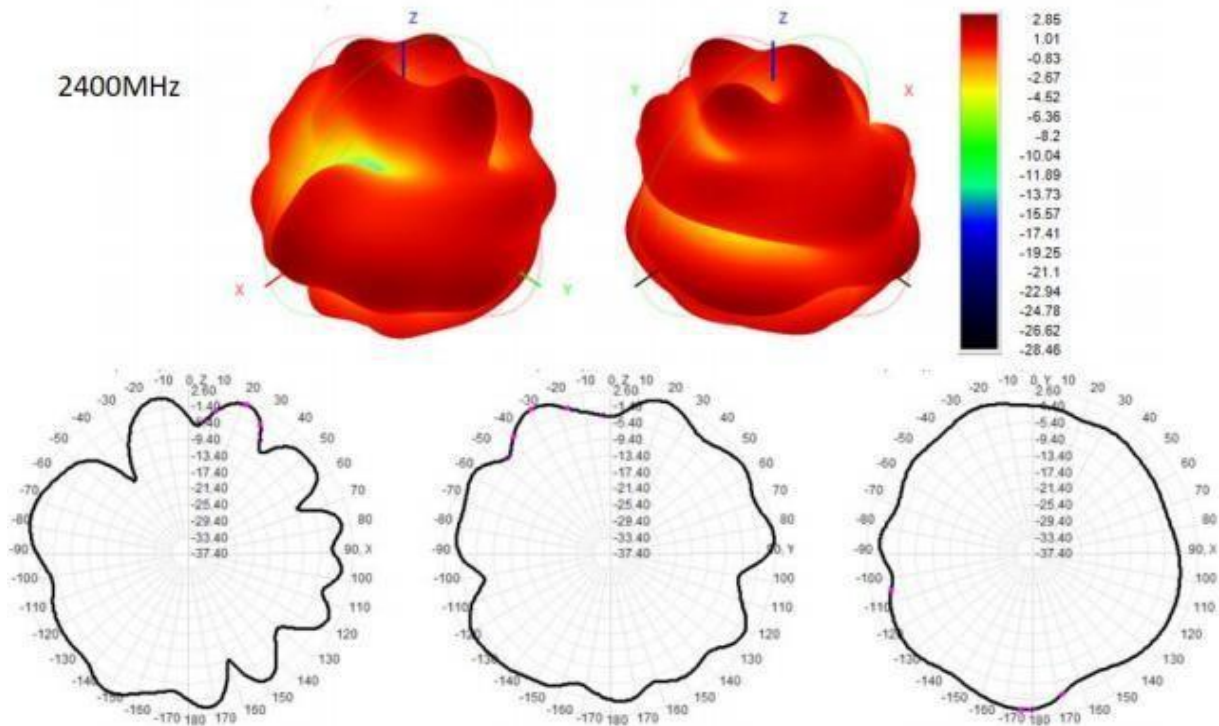
Antenna appearance:



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 Impendence(ohm)	50 Ω
Polarization Type	V ertical &Horizontal

2D、3D



2500MHz

