

# Antenna test report

Model Name: 2.4G ANT

**Manufacture: Shenzhen Yuanliang Intelligent Technology Co., LTD**

1307 Shansha Building, No. 160, Xinsha Avenue, Shansha Community,  
Pinghu Street, Longgang District, Shenzhen

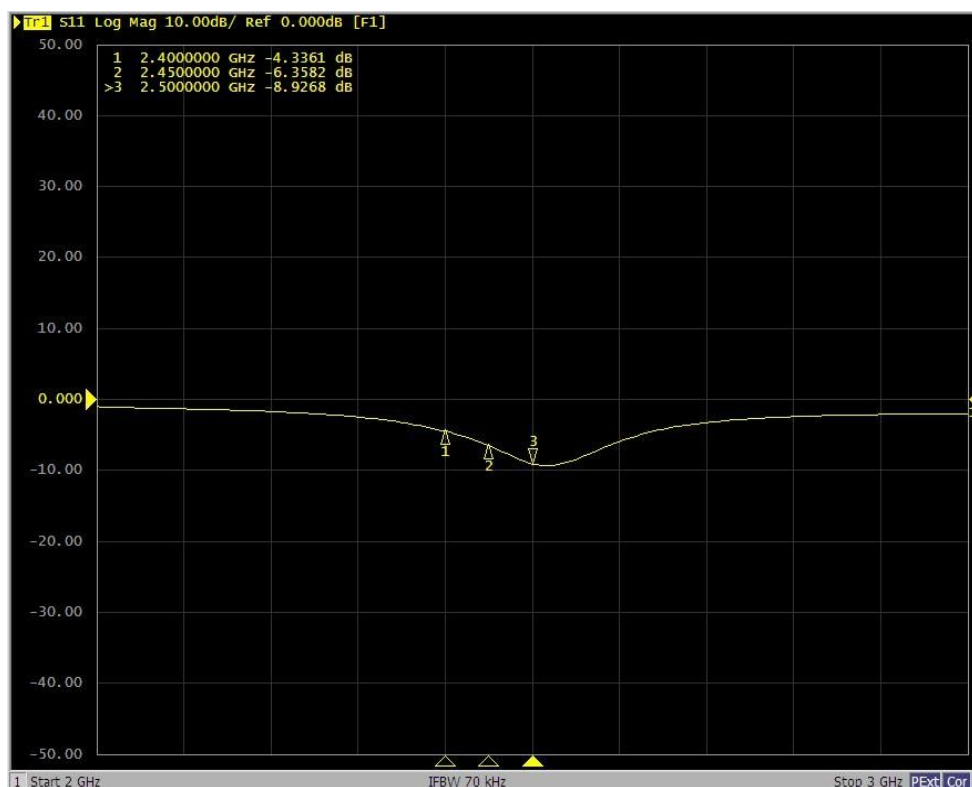
**-RFsister**

## 1. Electrical Characteristics

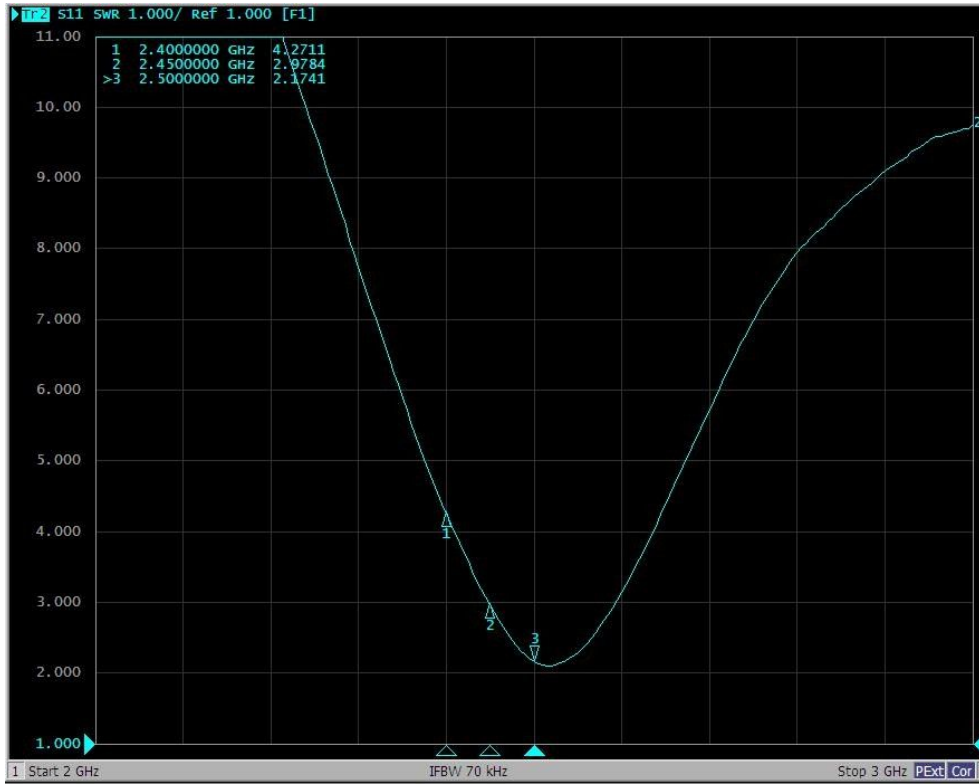
No.	Item	Specifications
1	Working Central Frequency	2450 MHz
2	Band Width	±75 MHz ( 2400~2500MHz )
3	Gain	(-5.5) - (-3) dbi
4	V.S.W.R (in BW)	≤4.3
5	Polarization	Linear
6	Azimuth Beam width	Omni-directional
7	Impedance 阻抗	50

## 2. Return Loss and Smith Chart

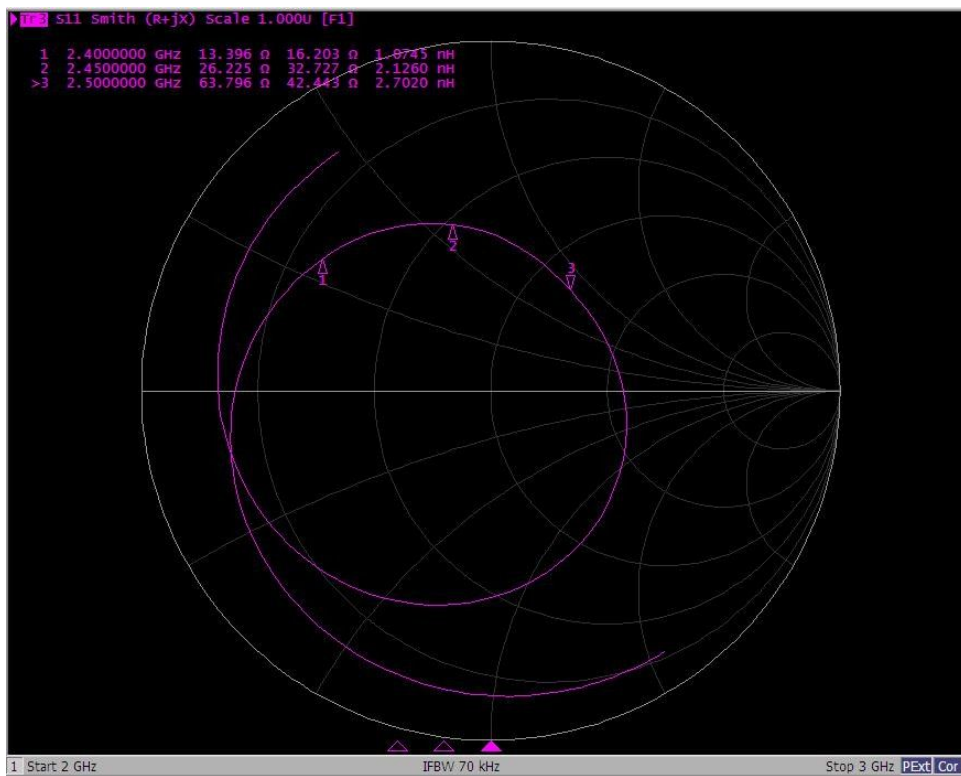
### Return Loss



### V.S.W.R



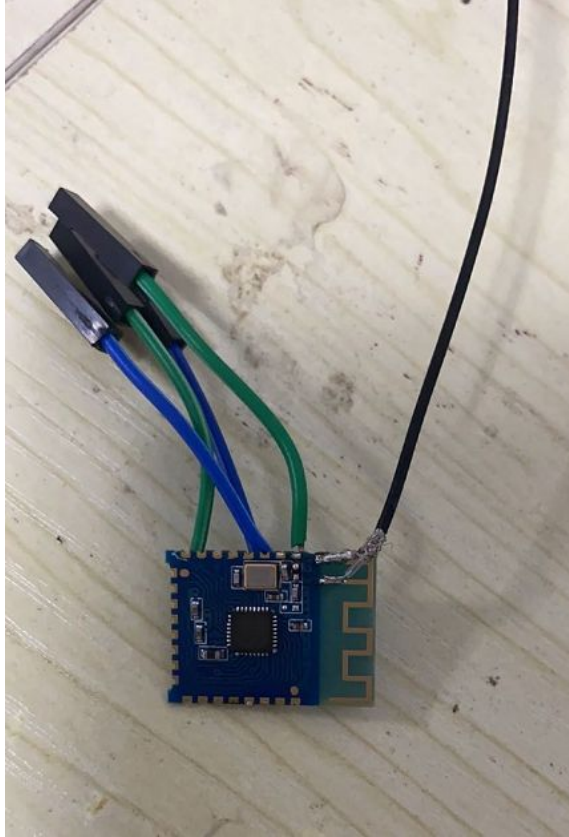
### Smith Chart



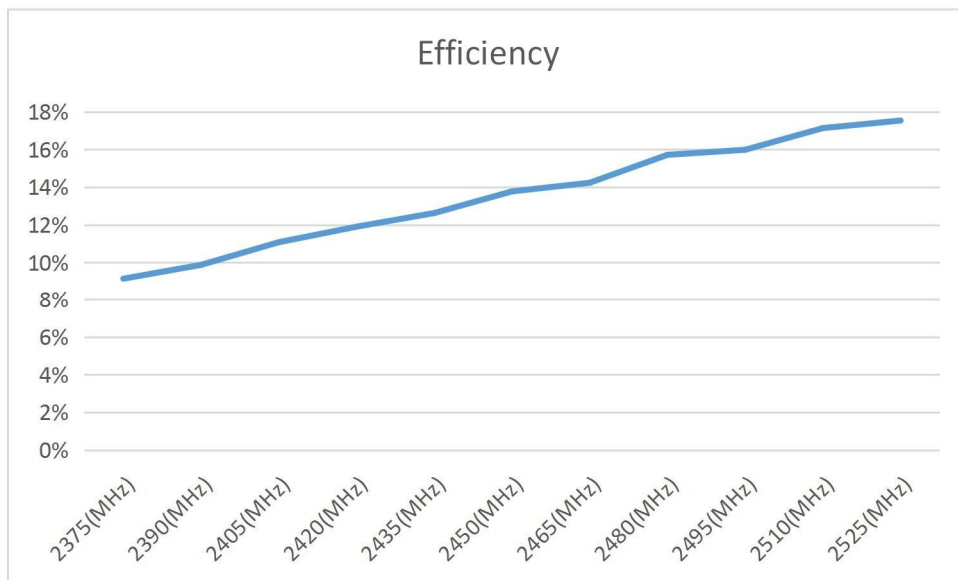
### 3. Physical Test Environment

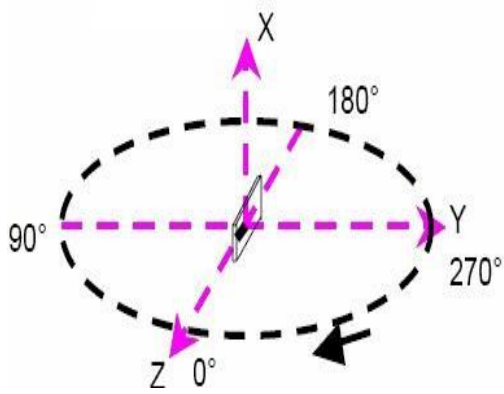
E5071C

### 4. Shape of the antenna

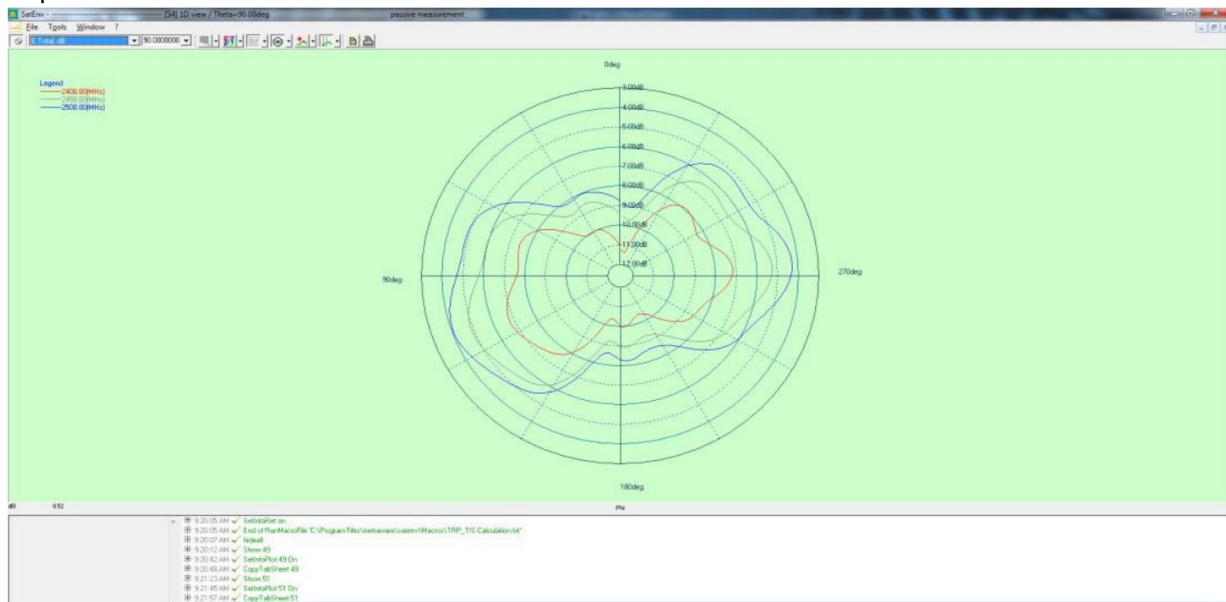


Efficiency:

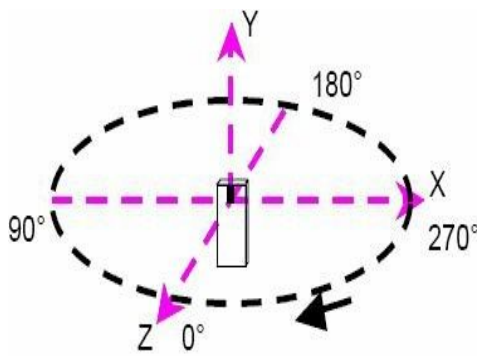




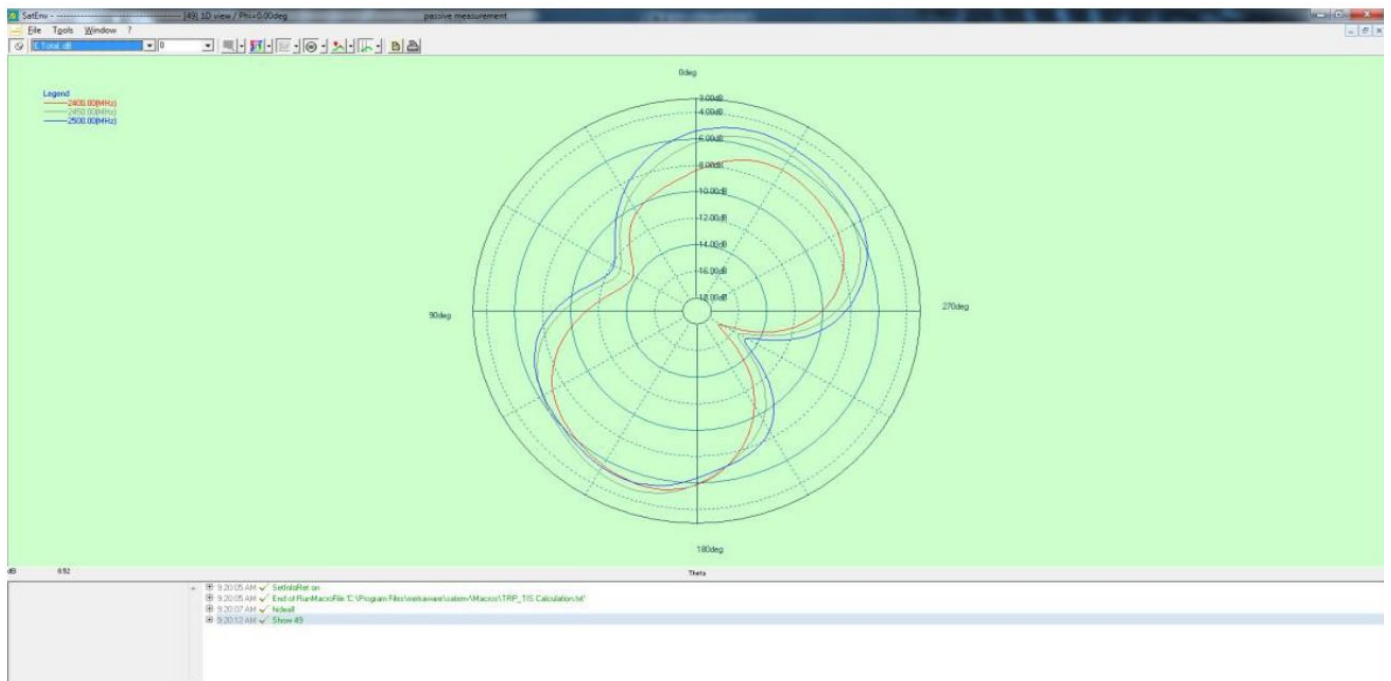
H pattern



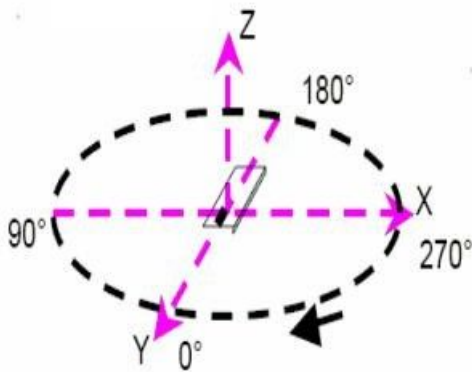
Fre(Mhz)	Max gain(dB)	Degree
2400 (MHz)	-6.79 dB	114.00 deg
2450 (MHz)	-4.92 dB	112.00 deg
2500 (MHz)	-4.07 dB	108.00 deg



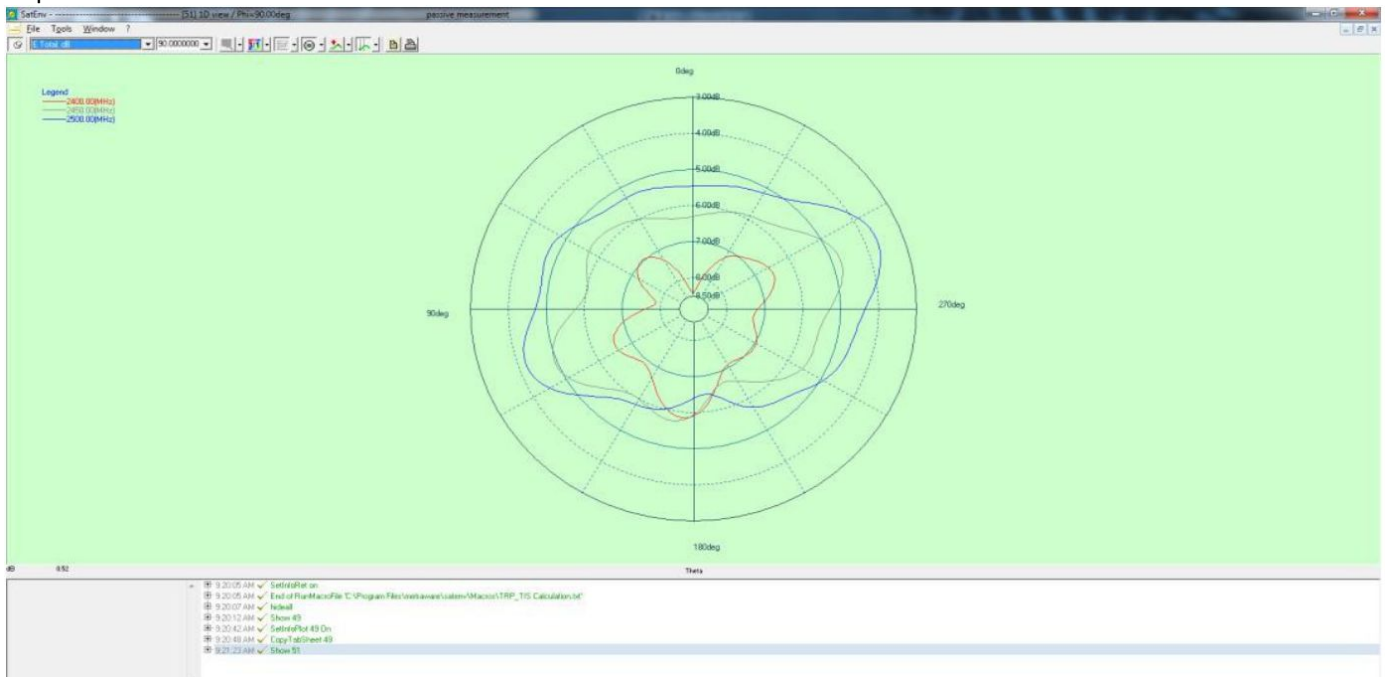
E1 pattern



Fre(MHz)	Max gain(dB)	Degree
2400 (MHz)	-5.29 dB	164.00 deg
2450 (MHz)	-4.80 dB	160.00 deg
2500 (MHz)	-4.87 dB	-20.00 deg



E2 pattern



Fre(Mhz)	Max gain(dB)	Degree
2400 (MHz)	-5.86 dB	174.00 deg
2450 (MHz)	-4.78 dB	-70.00 deg
2500 (MHz)	-3.68 dB	-68.00 deg