

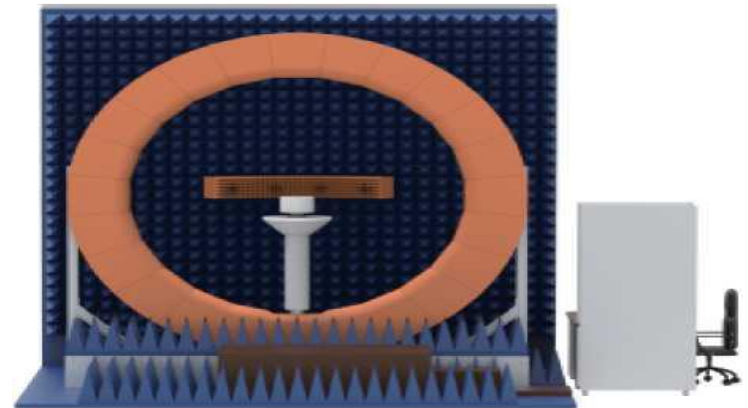
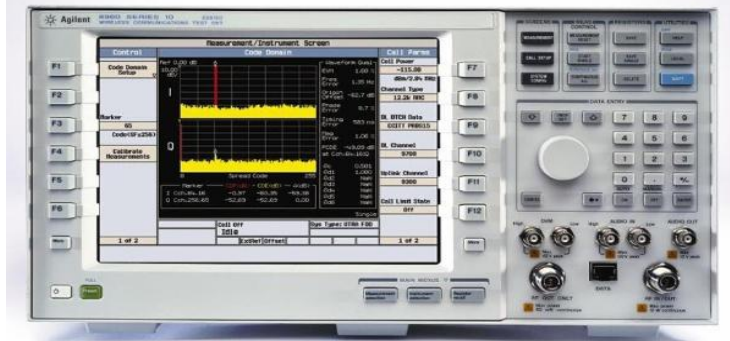


Customer	
Project	H670
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 07. 08

Shenzhen Helixun Technology Co., Ltd

2. Test System

Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



Purpose

This report is to measure the performance of antenna for **H670** The antenna operating frequency at 2400MHz-2500MHz 。 All test data are showed as below.

Content

1. Product Overview & Dimension
2. Test system
3. Test Result

3.1 S11 Parameter

3.2 Gain & Efficiency

3.3 2D Pattern

4. OTA

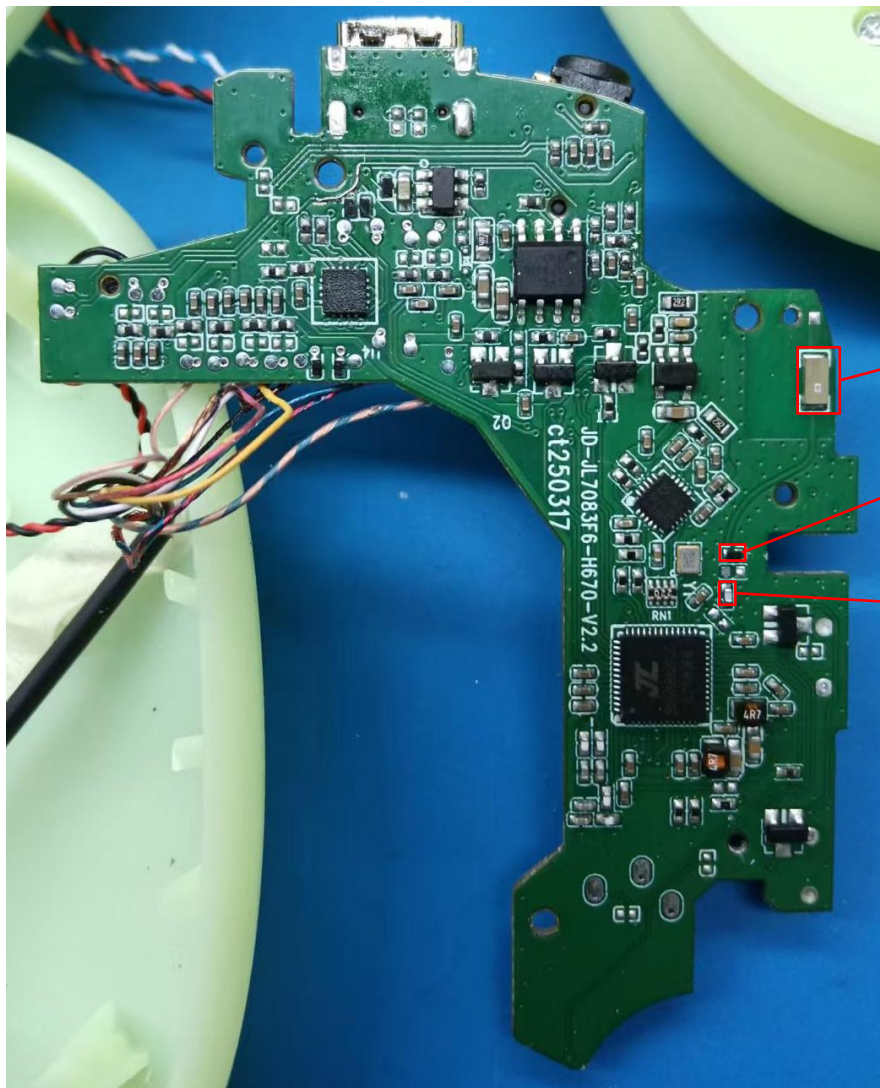
4.1 Test Result

4.2 2D Pattern



H670

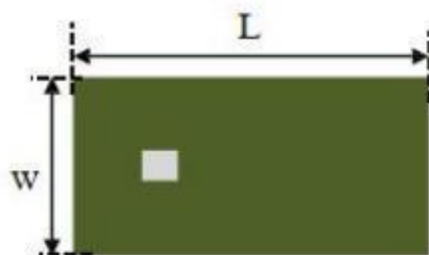
匹配图



A01

HT0521P1

2.7P



(Top View)



(Bottom View)



(Side View)

Number	Terminal Name
①	INPUT
②	NC



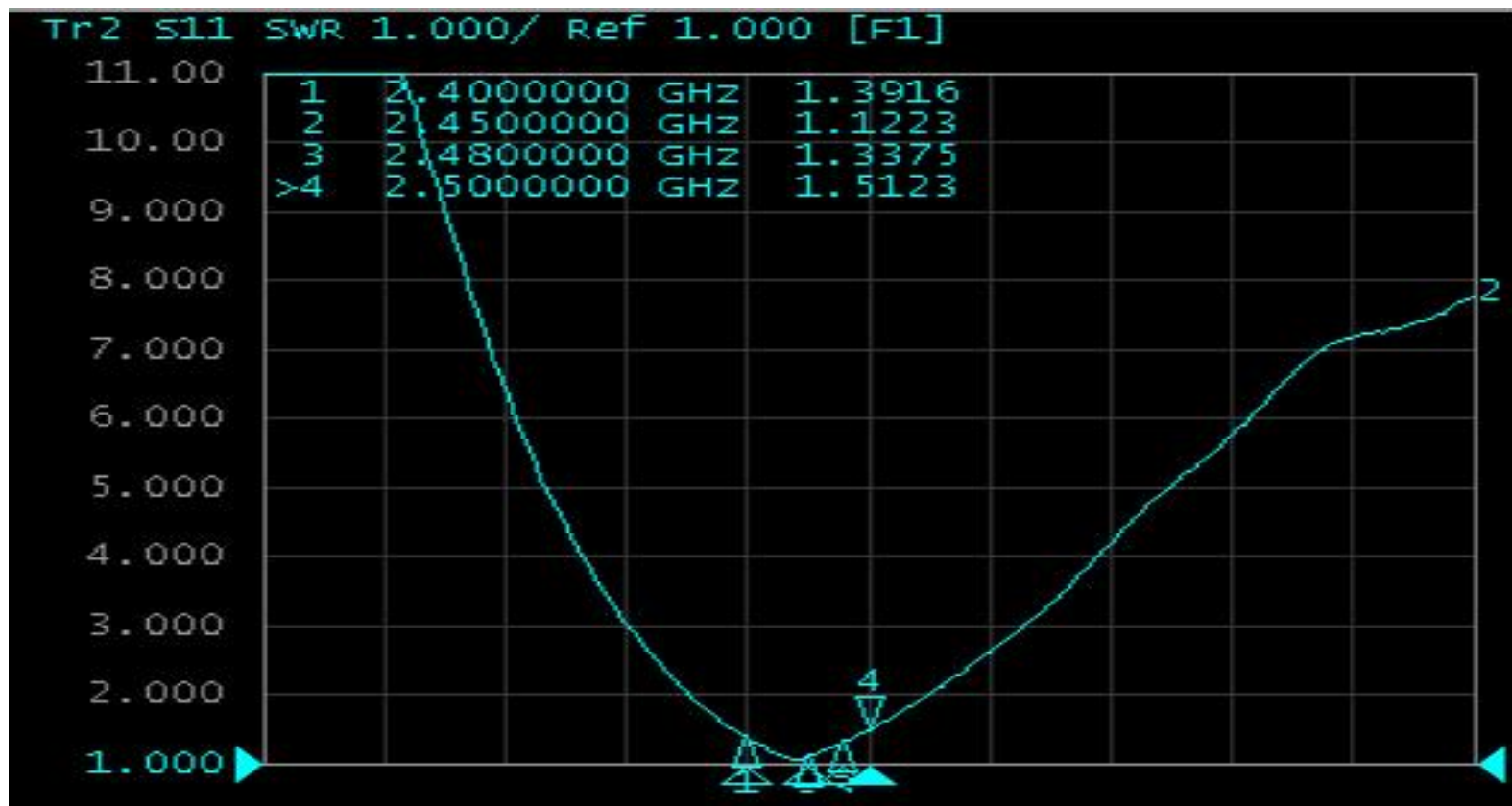
(Side View)

Symbols	L	W	T	A
Dimensions	3.2+/-0.2	1.6+/-0.2	0.6+/-0.1	0.5+/-0.1

Room 1004, Jinhuan Building, No. 56 Tiezai Road, Xixiang Street,
Bao'an District, Shenzhen City, Guangdong Province

3.1 Test Result

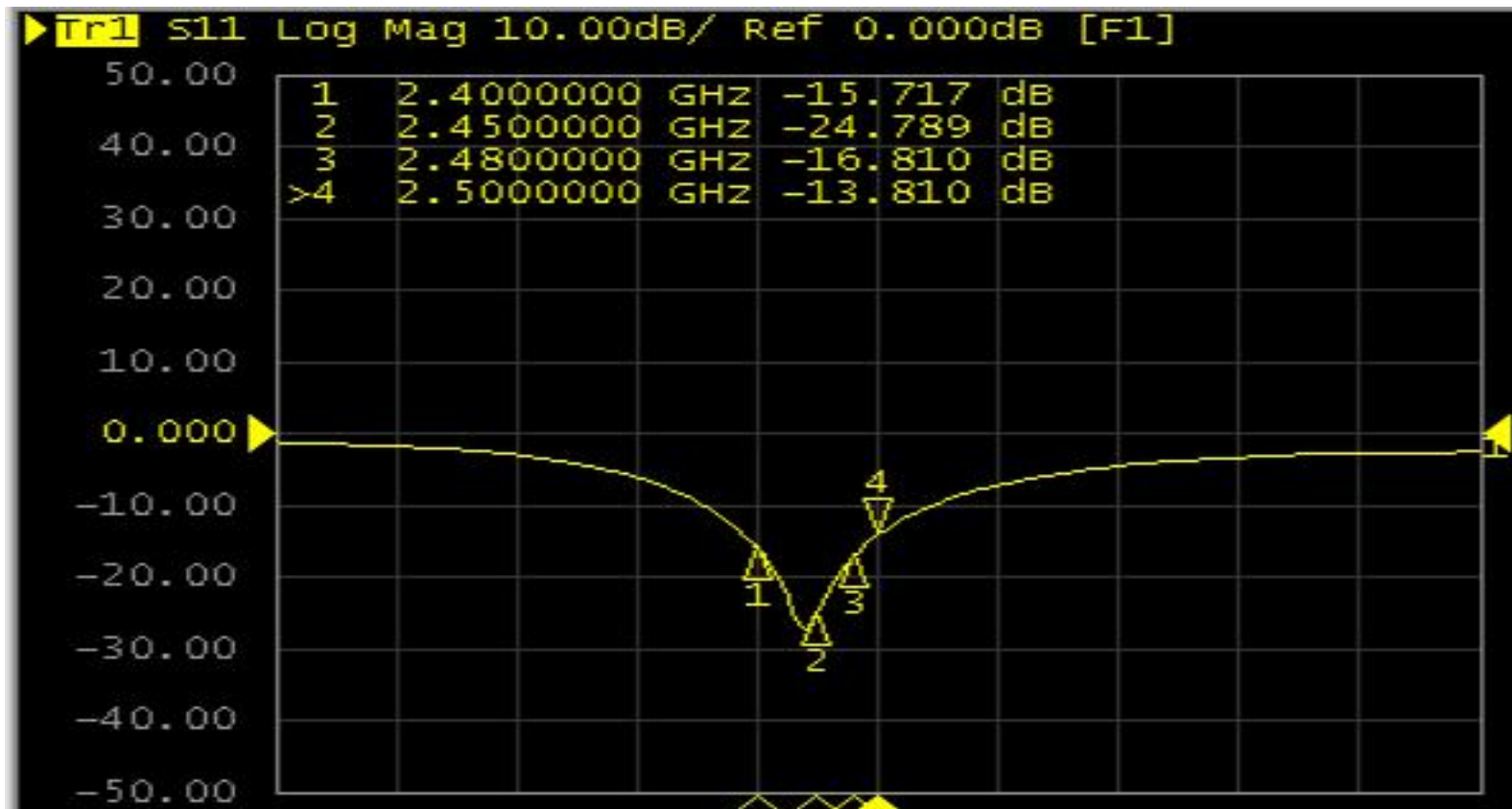
1 .S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.39	1.12	1.33	1.51

3.1 Test Result

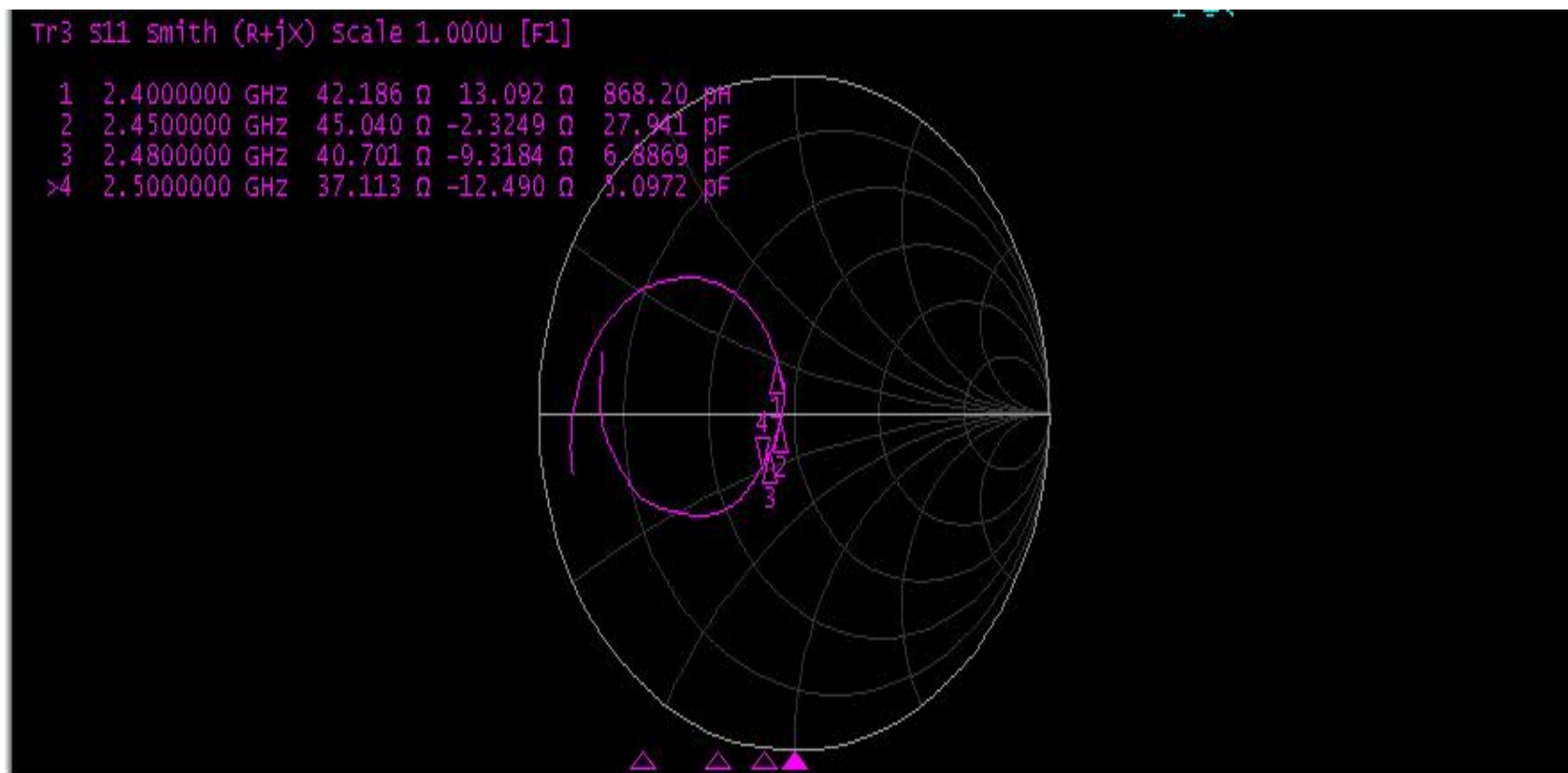
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-15.71	-24.78	-16.81	-13.81

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	42.18	45.04	40.70	37.11

3.2 Test Result

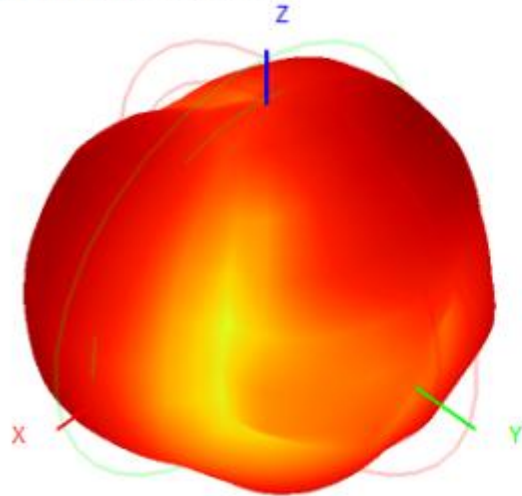
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	37.38	0.30
2410	38.09	0.17
2420	38.89	-0.02
2430	39.87	0.31
2440	40.73	0.77
2450	41.51	1.19
2460	42.43	1.34
2470	42.96	1.15
2480	43.31	0.80

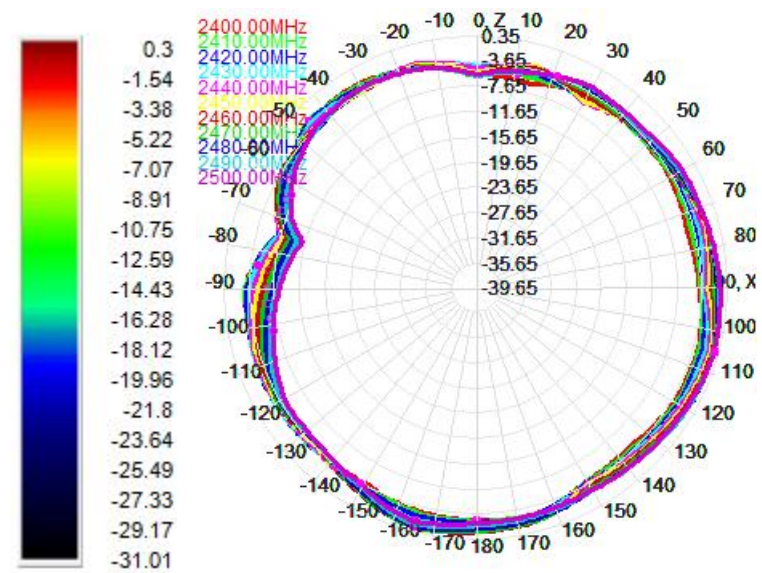
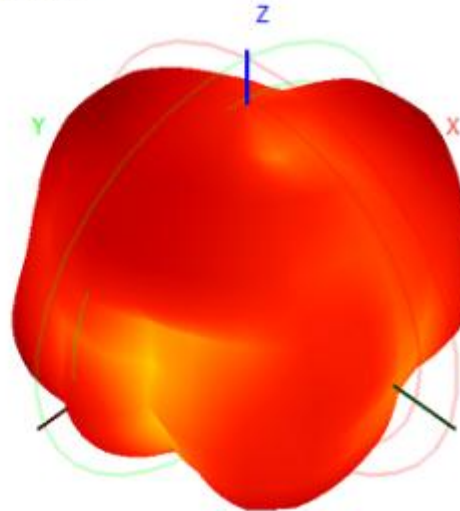
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff: 37.4%



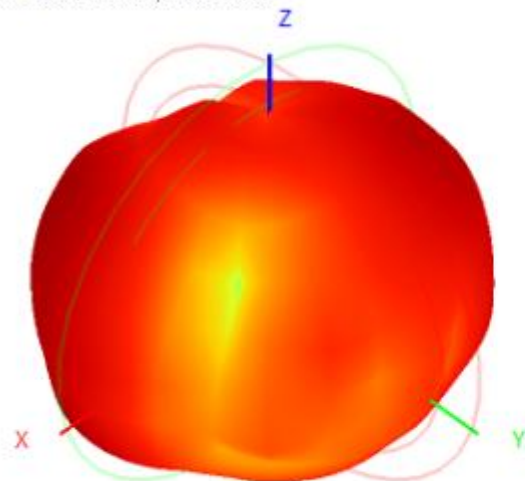
Back View



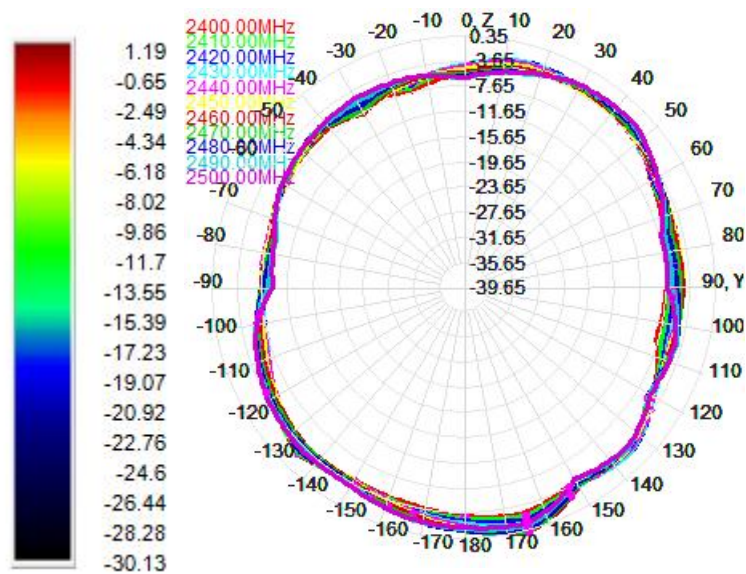
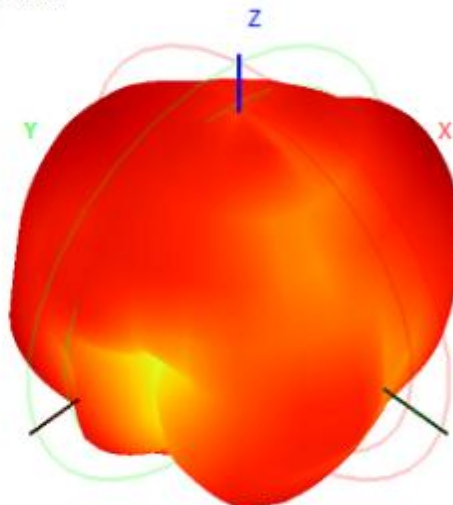
4.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff: 41.5%



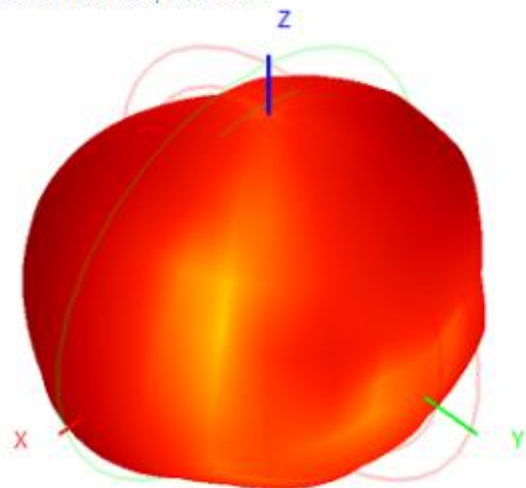
Back View



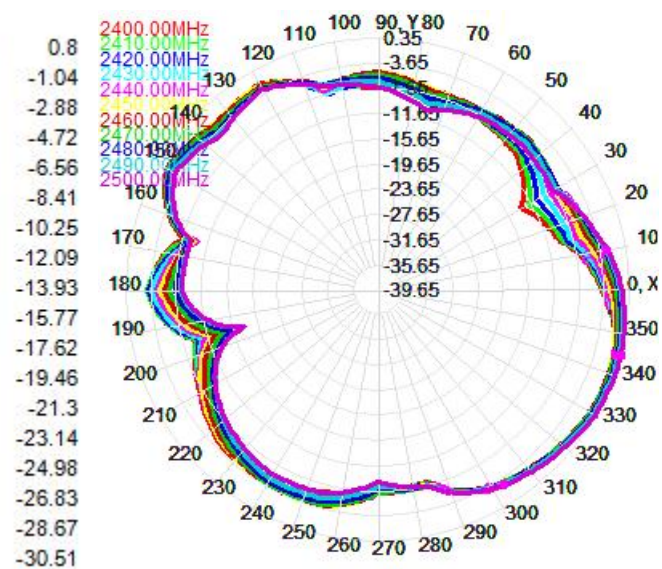
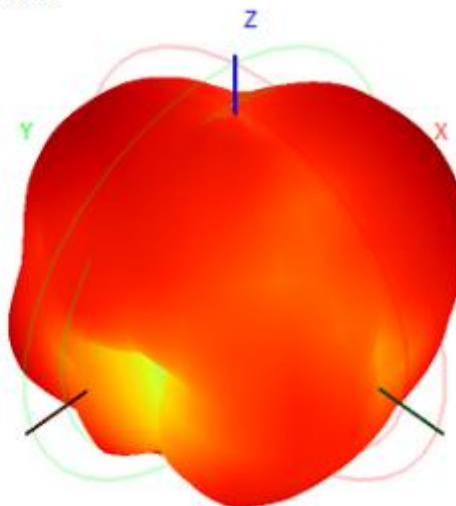
4.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff: 43.3%



Back View



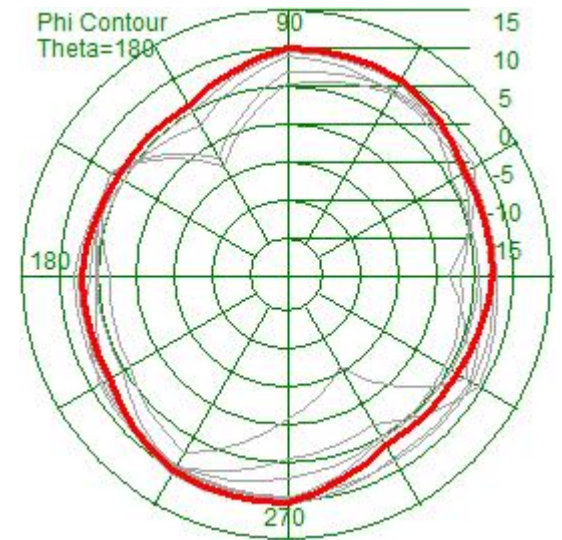
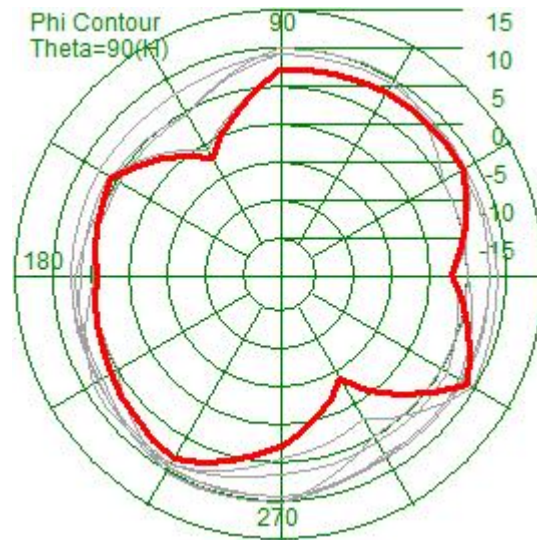
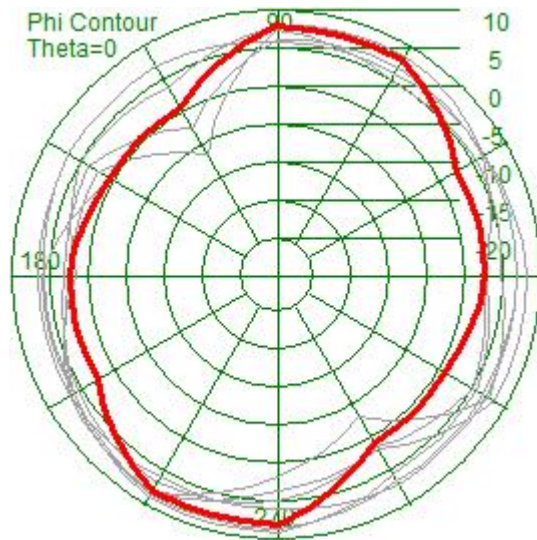
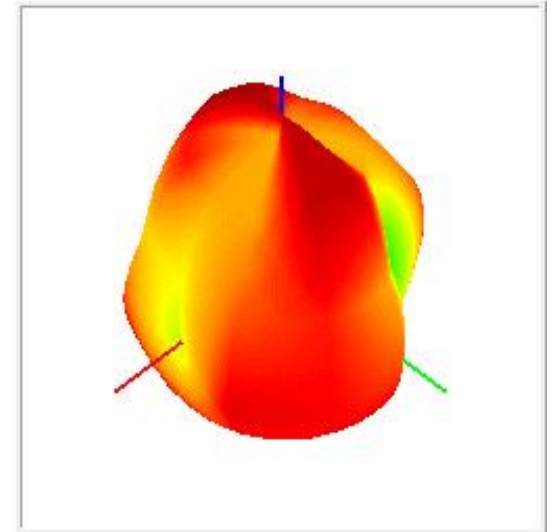
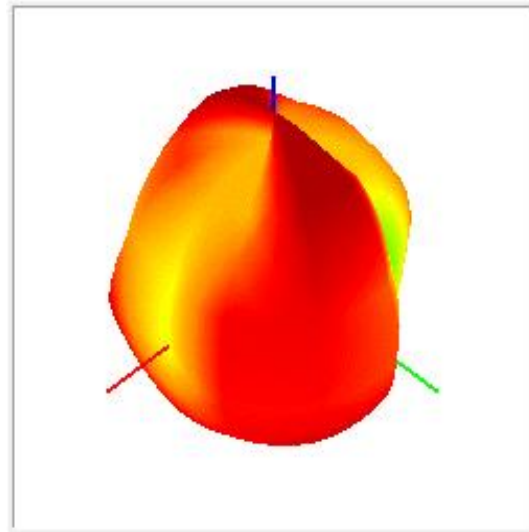
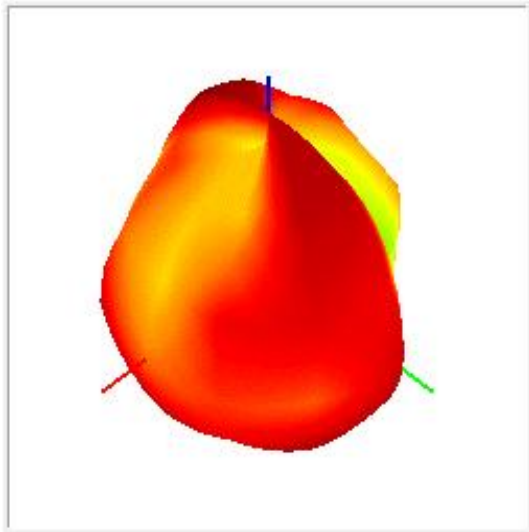
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	5.50	-92.55
	39	6.95	-93.27
	78	6.72	-91.98

4.2 Test Result

1 2D Pattern——**BTANT**

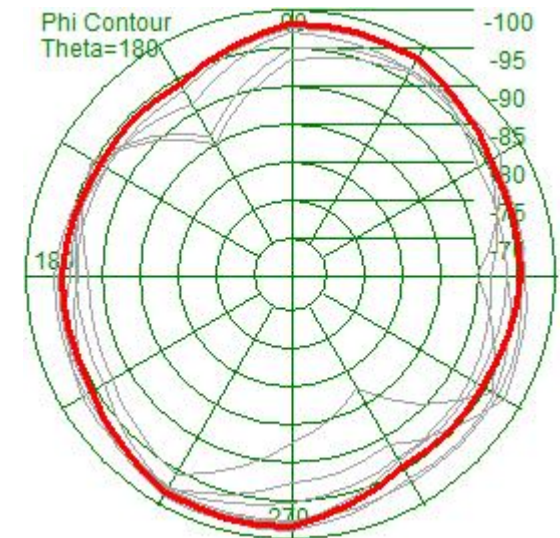
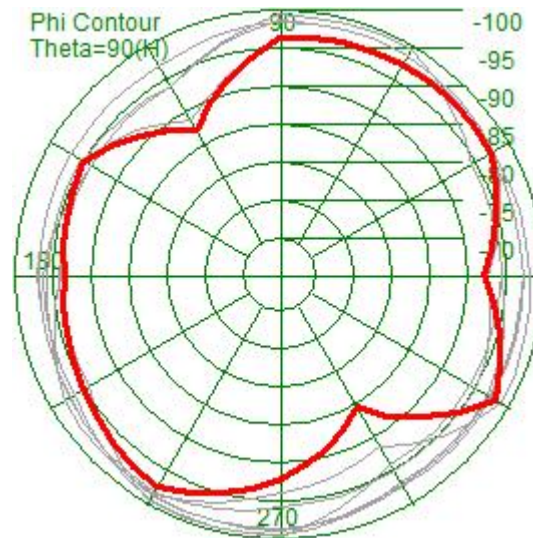
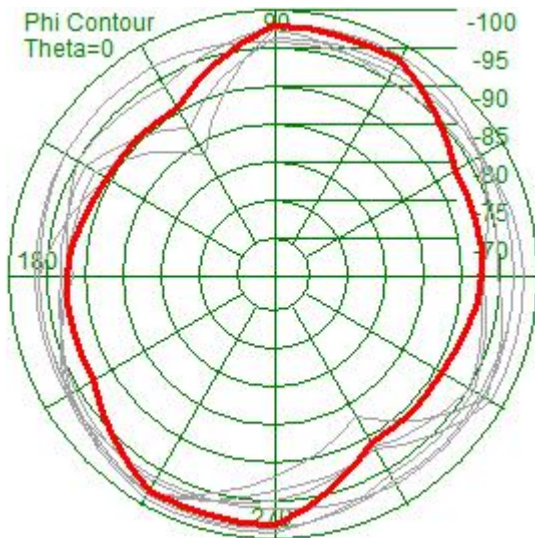
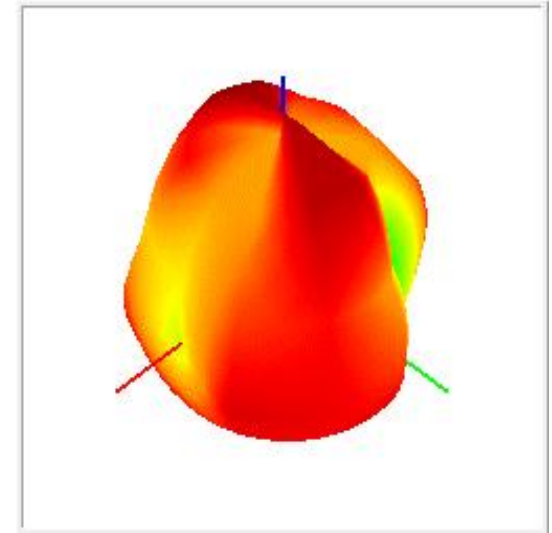
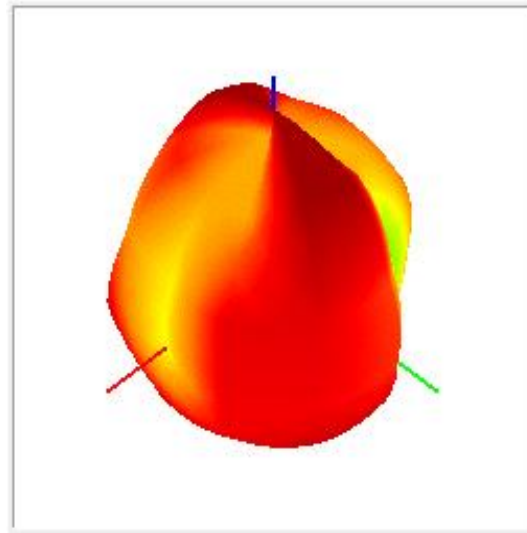
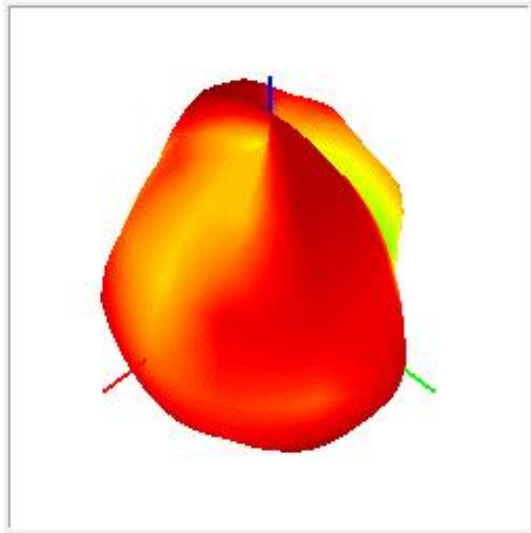
TRP



4.2 Test Result

2 2D Pattern——**BTANT**

TIS



Thank you!