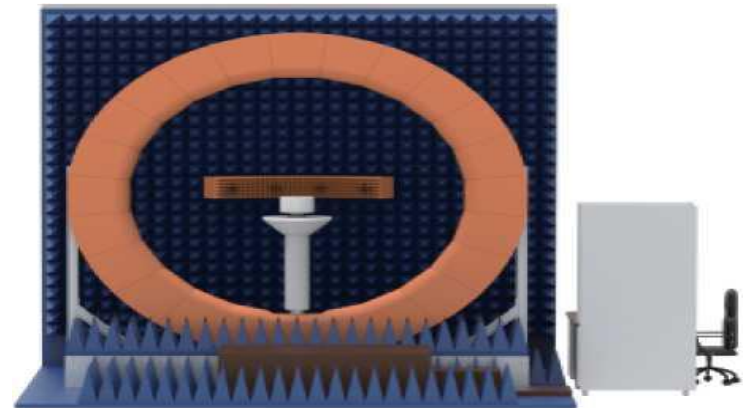
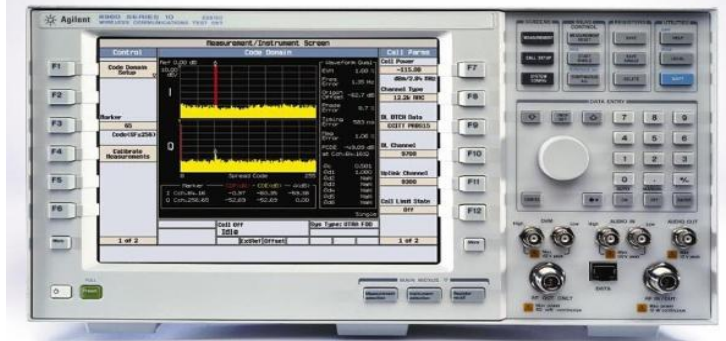




Customer	新联芯
Project	T8
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 12. 30

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 **T8** The antenna operating frequency at 2400MHz-2500MHz 。 All test data are showed as below.

Content

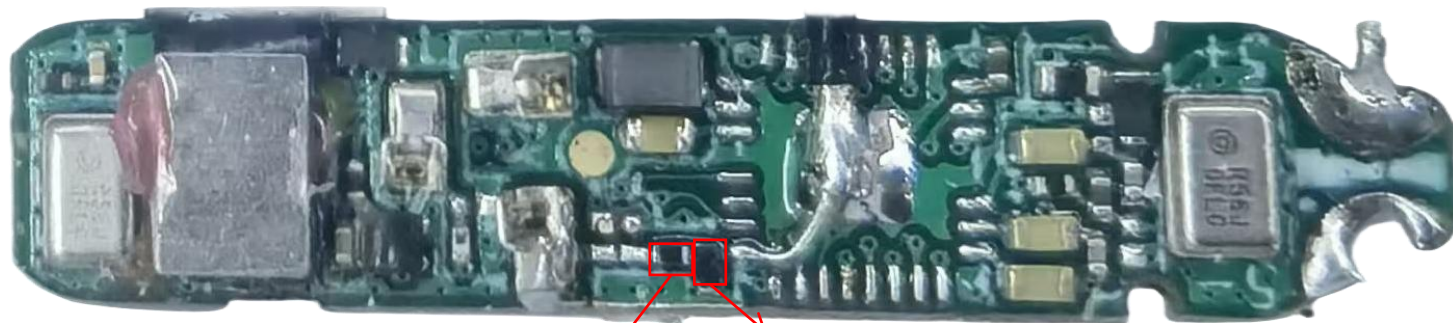
1. Product Overview & Dimension
2. Test system
3. Test Result
4. OTA

4.1 Test Result

4.2 2D Pattern

匹配图

L



0Ω

ESD 移到此处

R

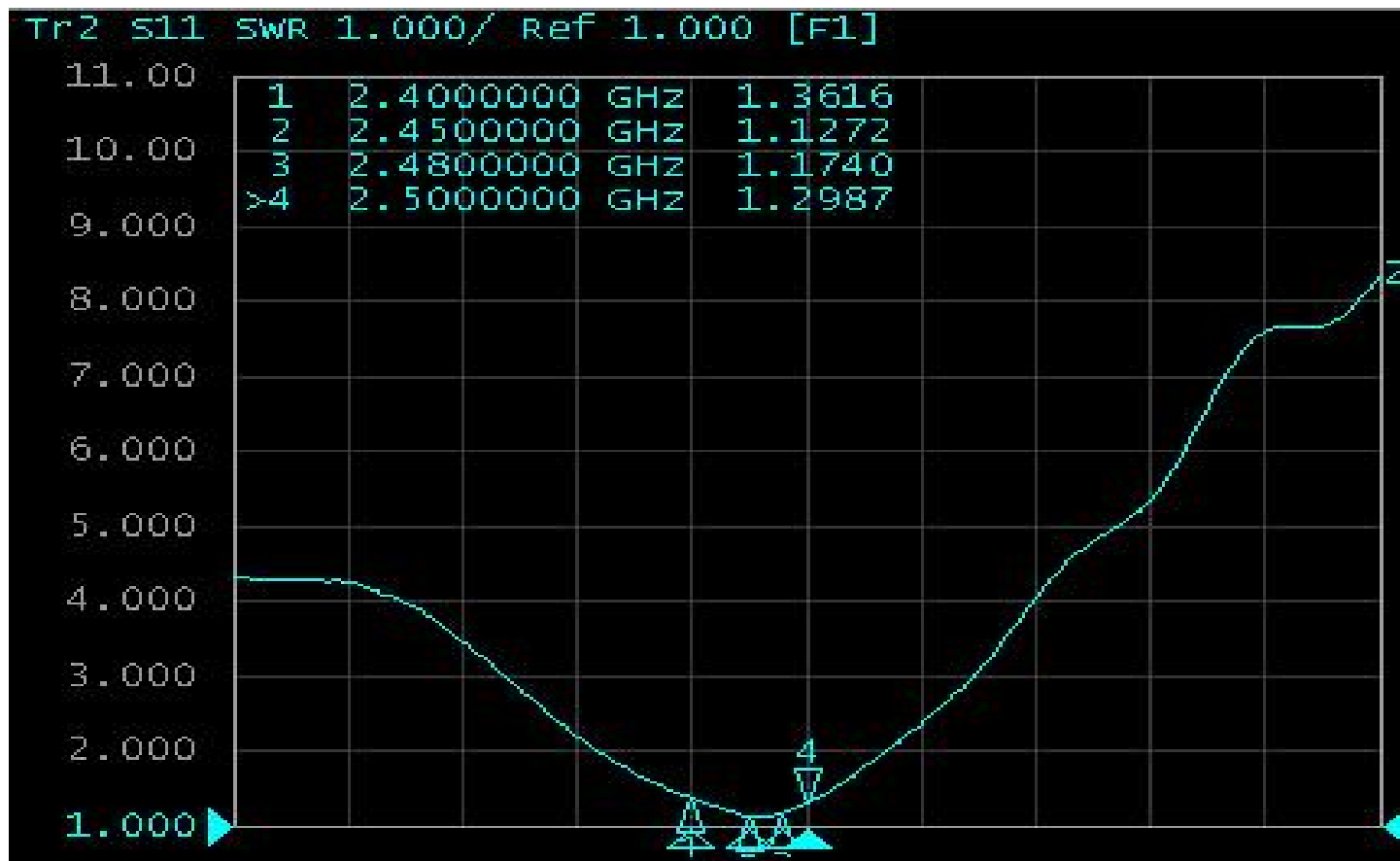


0Ω

ESD 移到此处

3.1 Test Result

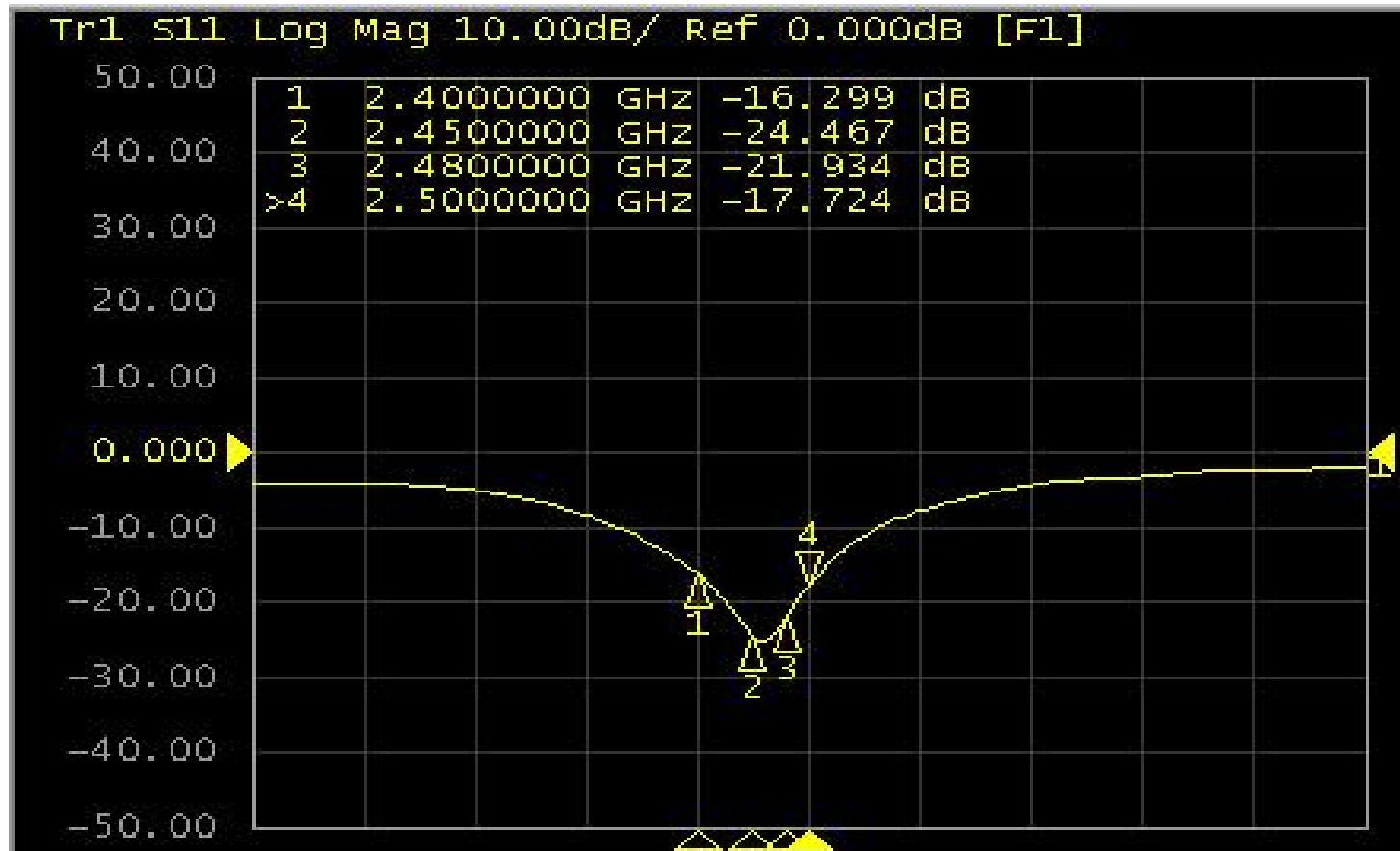
1.S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.36	1.12	1.17	1.29

3.1 Test Result

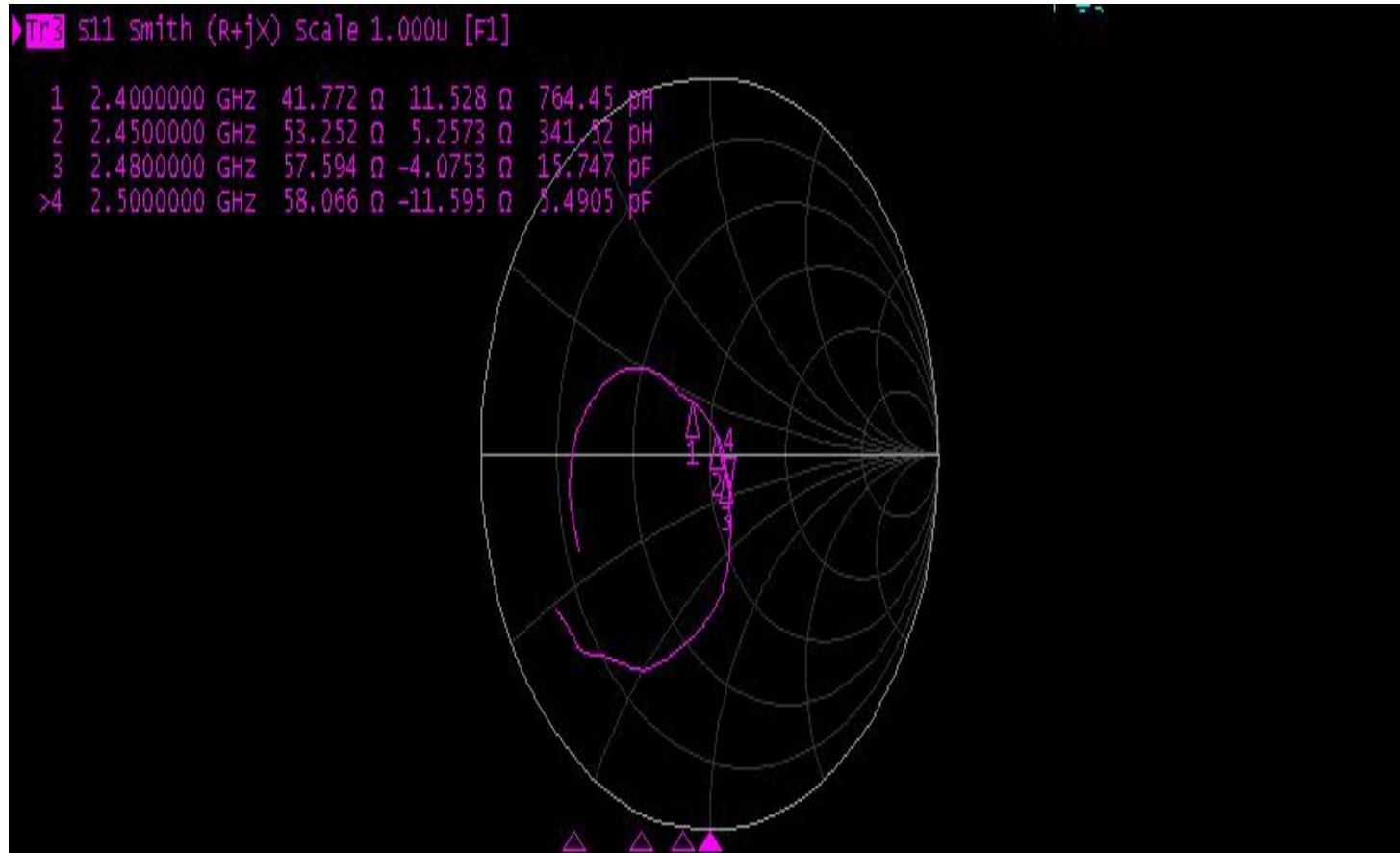
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-16.29	-24.46	-21.93	-17.72

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	41.77	53.25	57.59	58.06

3.2 Test Result

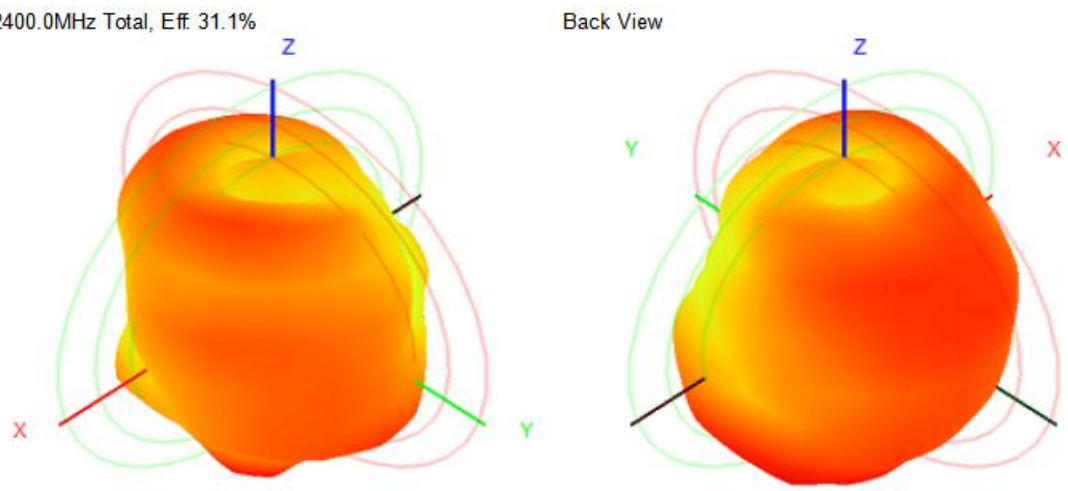
1 Gain & Efficiency——Left **ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	31.15%	3.21
2410	33.18%	3.46
2420	34.95%	3.58
2430	36.54%	3.74
2440	37.90%	4.02
2450	39.47%	4.35
2460	40.56%	4.38
2470	41.43%	4.15
2480	42.17%	3.97

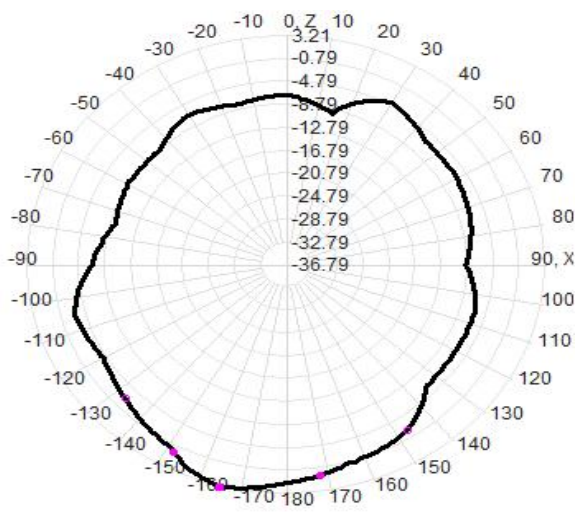
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff. 31.1%



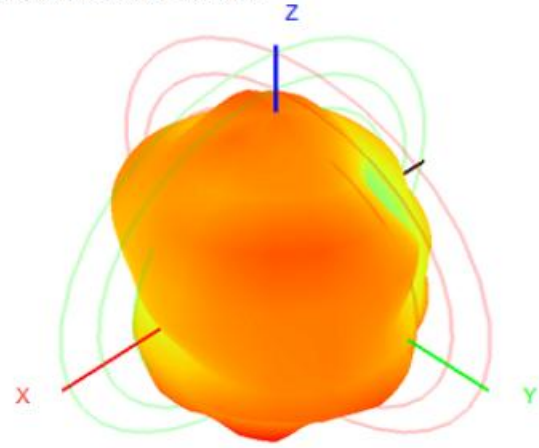
3.21
1.37
-0.48
-2.32
-4.16
-6
-7.84
-9.69
-11.53
-13.37
-15.21
-17.05
-18.9
-20.74
-22.58
-24.42
-26.26
-28.11



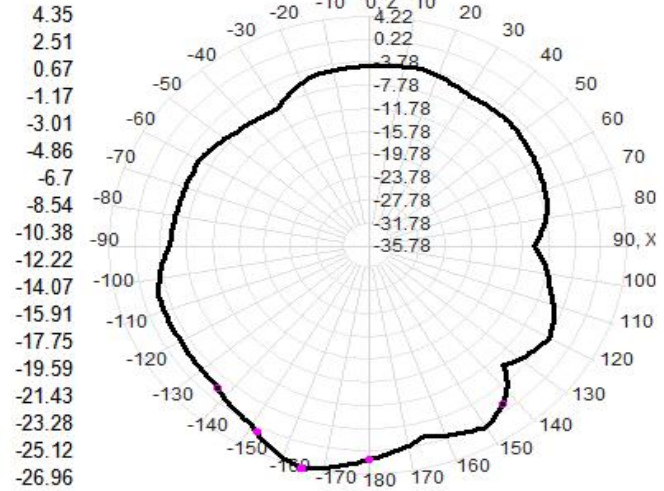
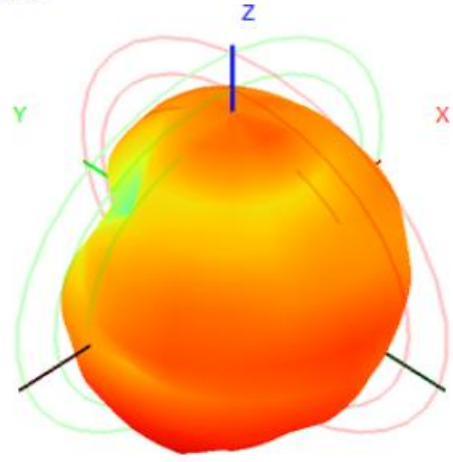
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff. 39.5%



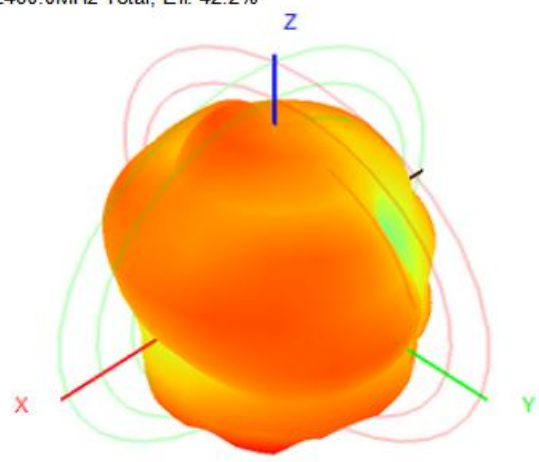
Back View



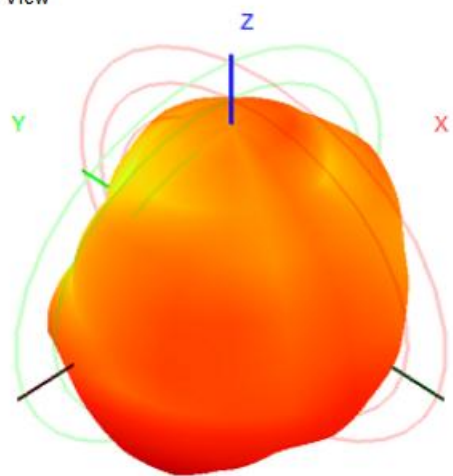
3.3 Test Result

3 2D Pattern—BTANT

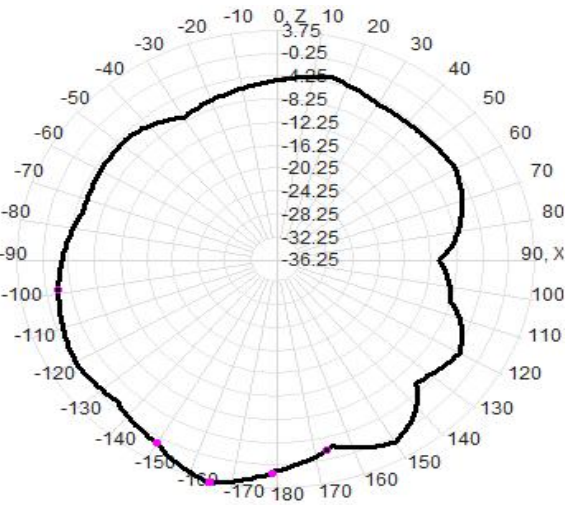
2480.0MHz Total, Eff. 42.2%



Back View

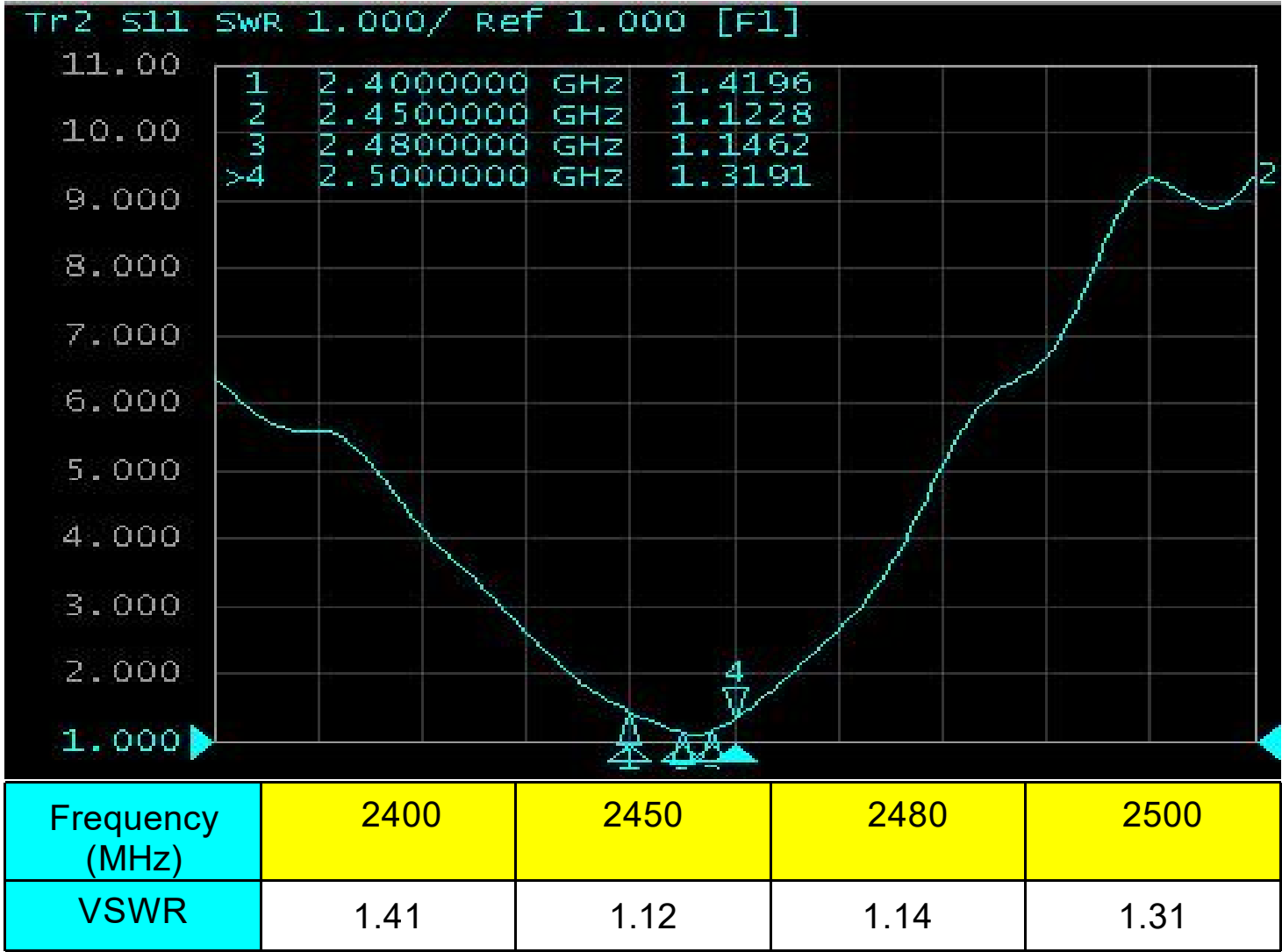


3.97
2.13
0.29
-1.56
-3.4
-5.24
-7.08
-8.92
-10.77
-12.61
-14.45
-16.29
-18.14
-19.98
-21.82
-23.66
-25.5
-27.35



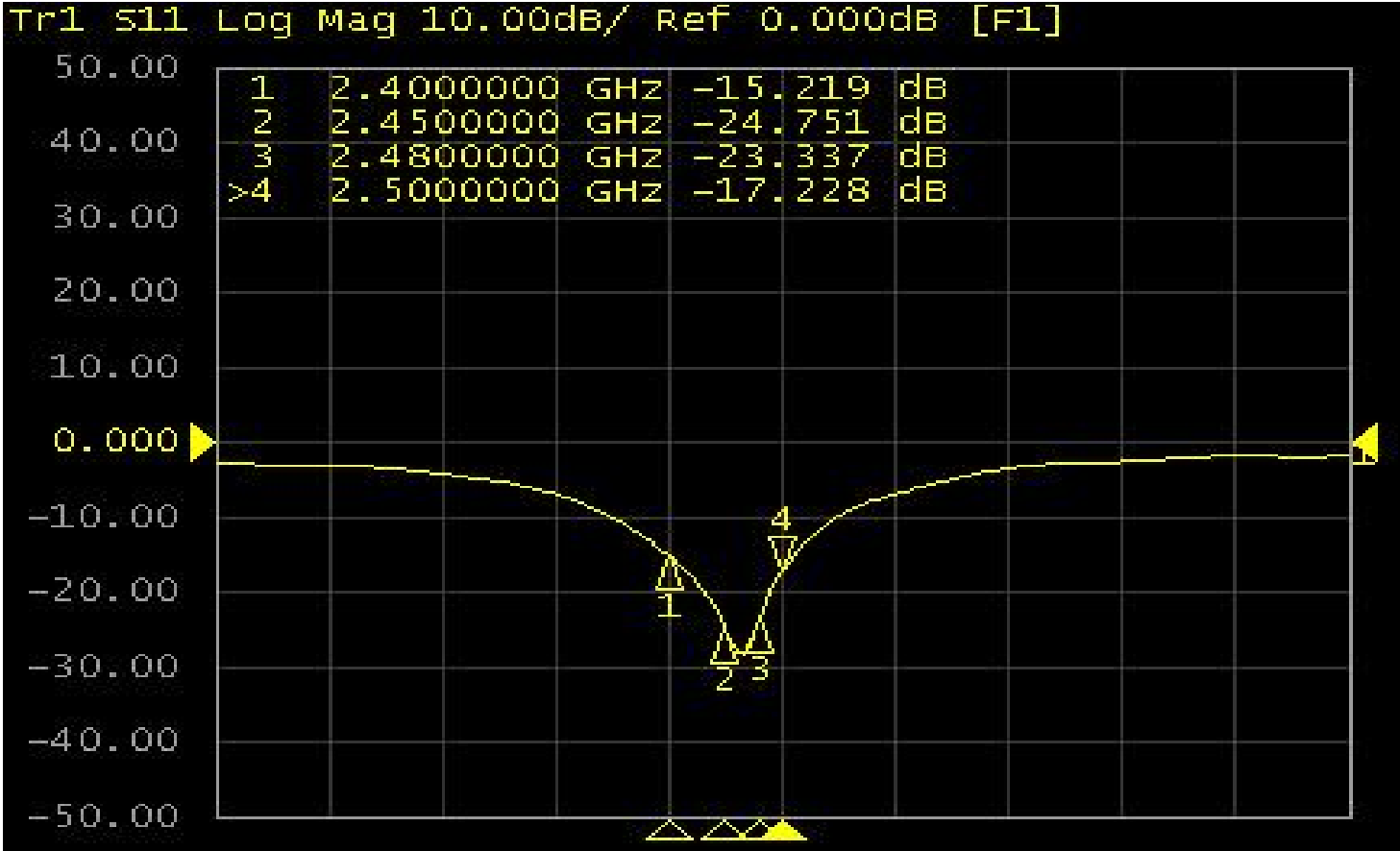
3.1 Test Result

1 .S11 Parameter-VSWR



3.1 Test Result

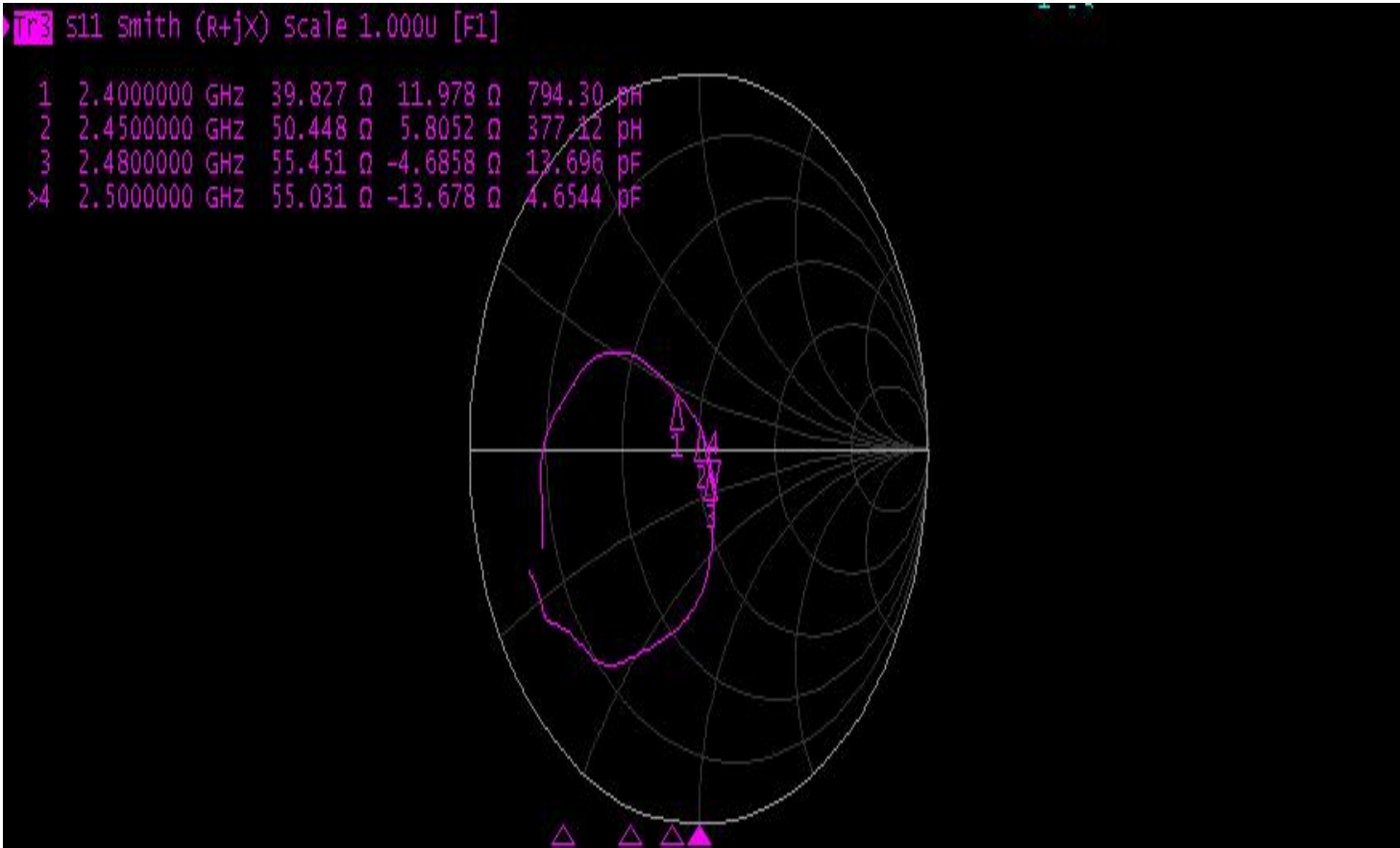
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-15.21	-24.75	-23.33	-17.22

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	39.82	50.44	55.45	55.03

3.2 Test Result

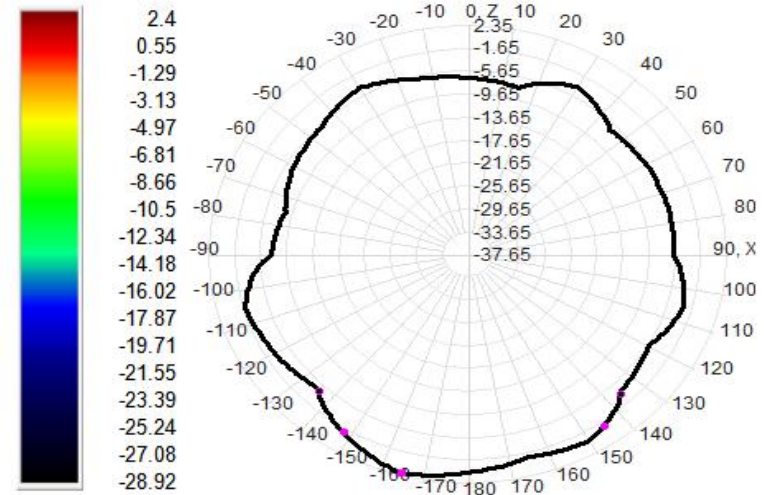
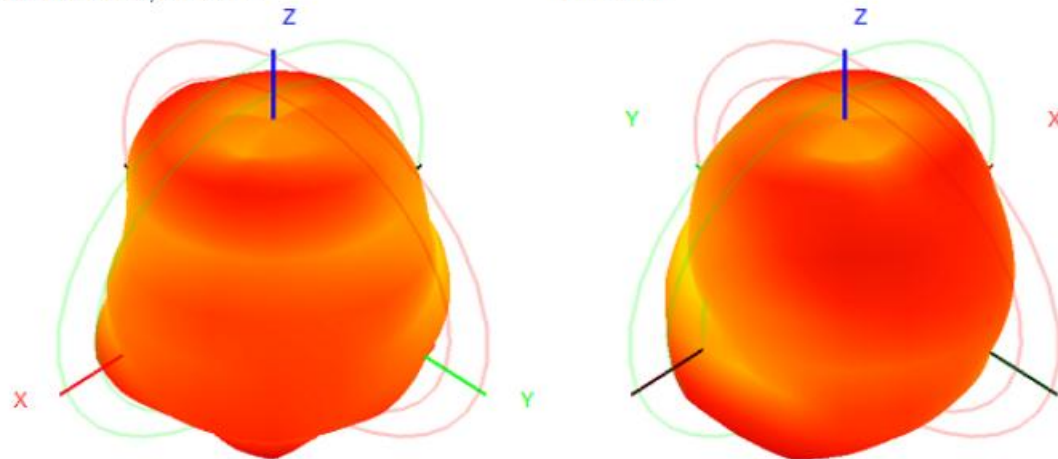
1 Gain & Efficiency——Right **ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	34.69%	2.40
2410	35.47%	2.66
2420	36.16%	2.79
2430	36.78%	2.89
2440	37.32%	3.08
2450	38.46%	3.43
2460	38.87%	3.51
2470	39.39%	3.35
2480	39.61%	3.04

3.3 Test Result

1 2D Pattern—BTANT

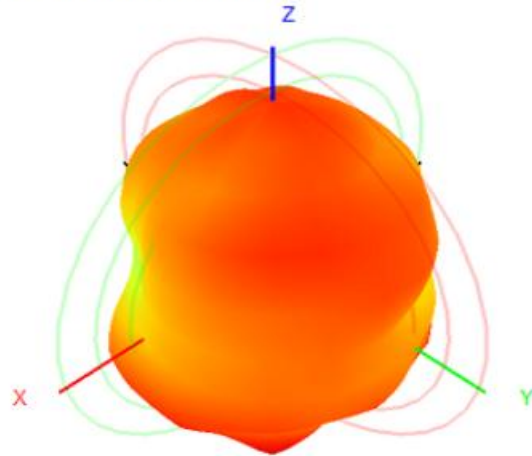
2400.0MHz Total, Eff 34.7%



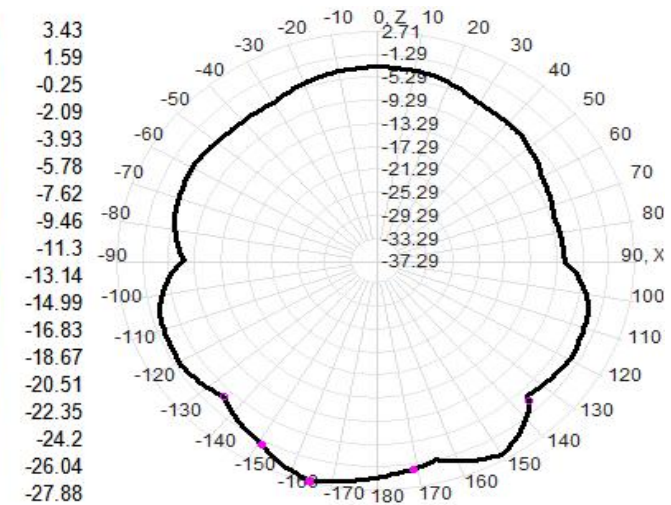
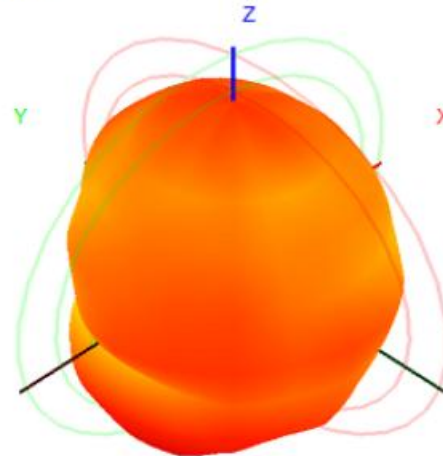
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff. 38.5%



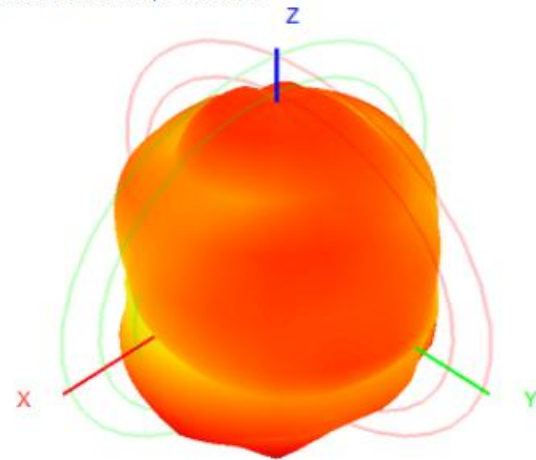
Back View



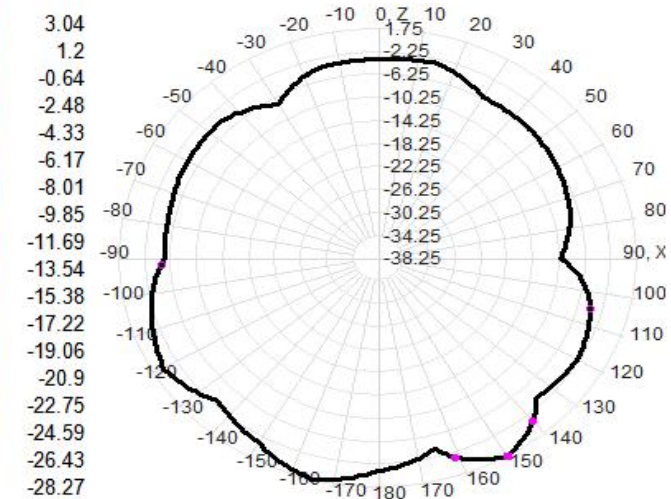
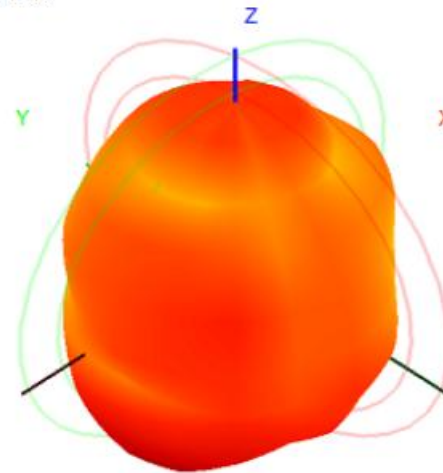
3.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff. 39.6%



Back View





4.1 OTA Data

自由场测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	6.26	-90.97
	39	6.87	-90.64
	78	6.47	-91.70
BT-R	0	6.05	-92.00
	39	6.68	-90.95
	78	6.31	-92.45

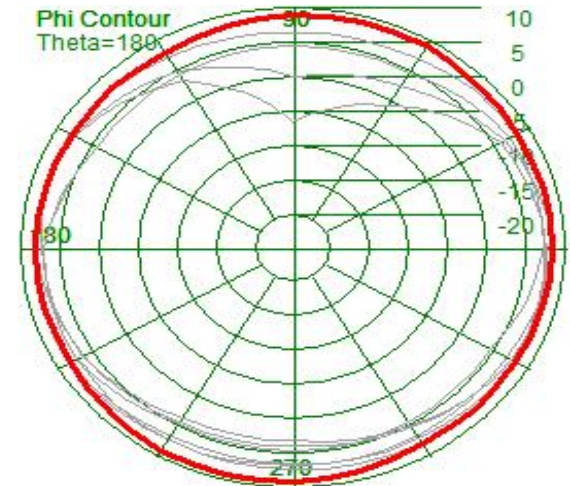
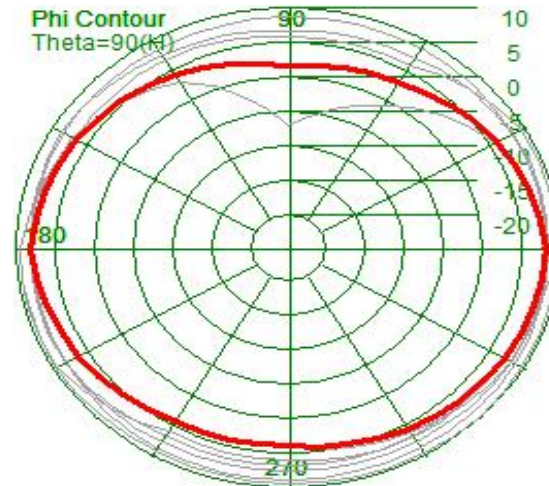
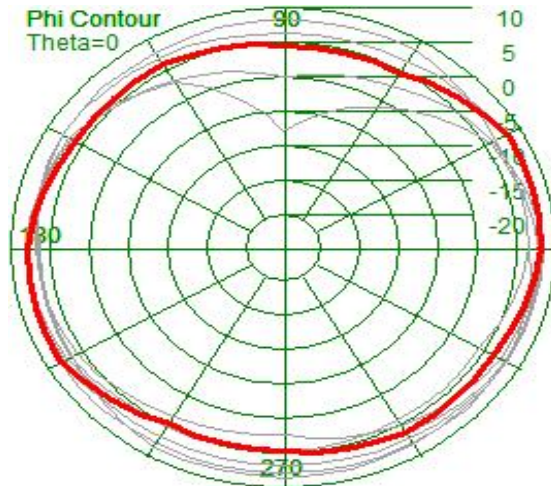
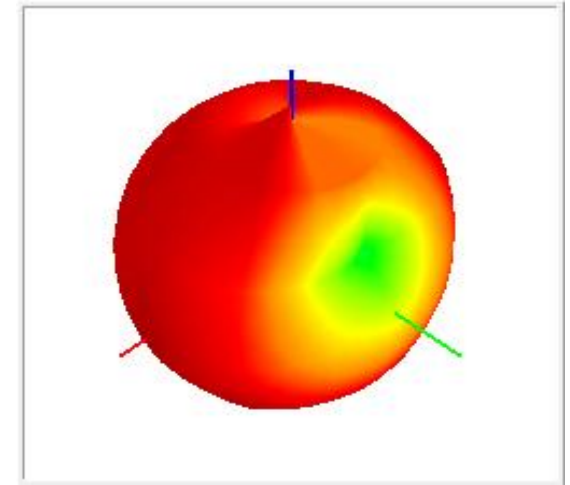
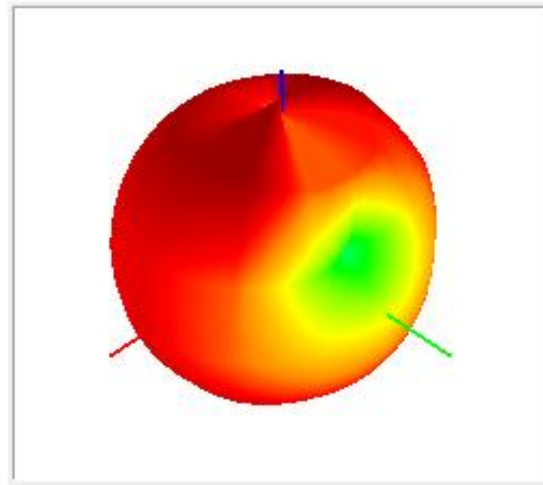
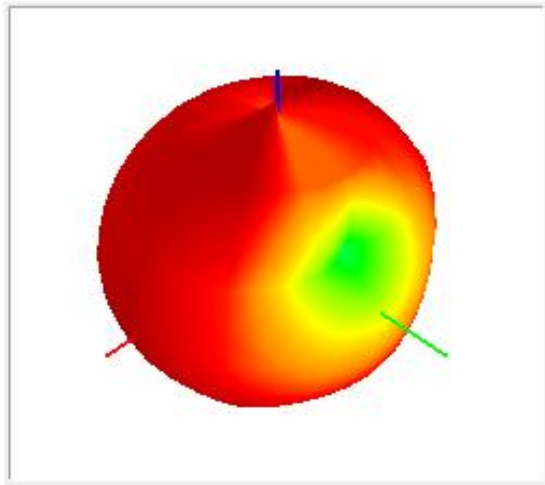
4.2 Test Result

测试1#机

L

1 2D Pattern——**BTANT**

TRP



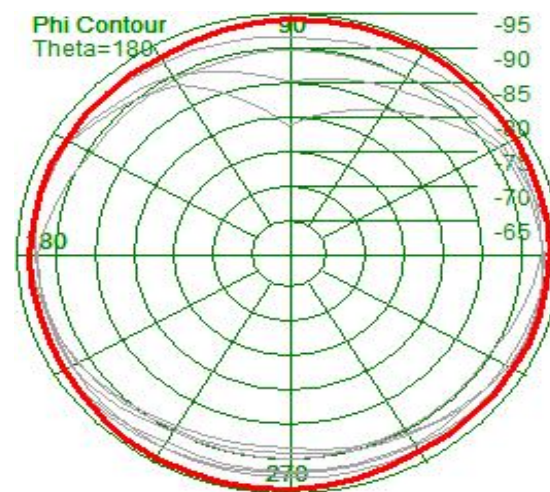
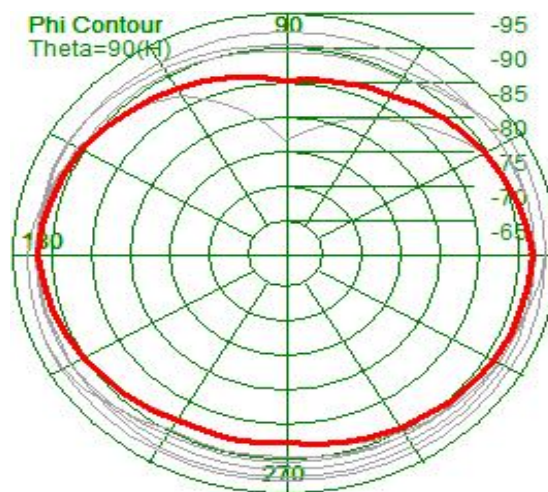
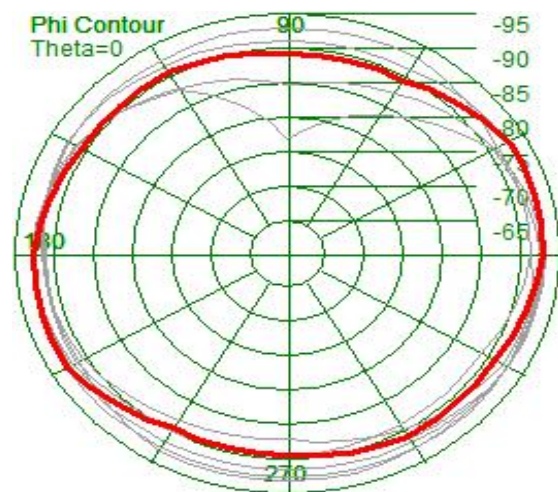
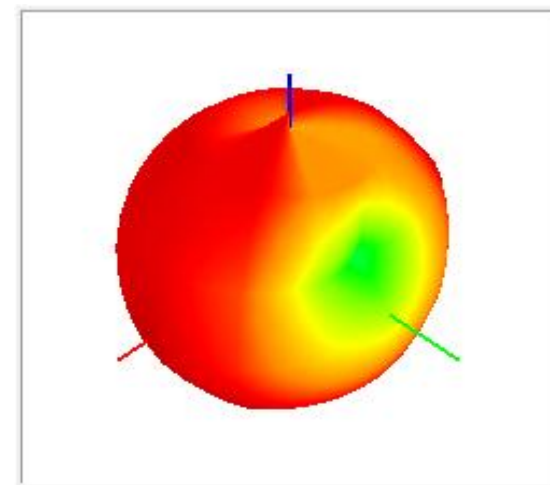
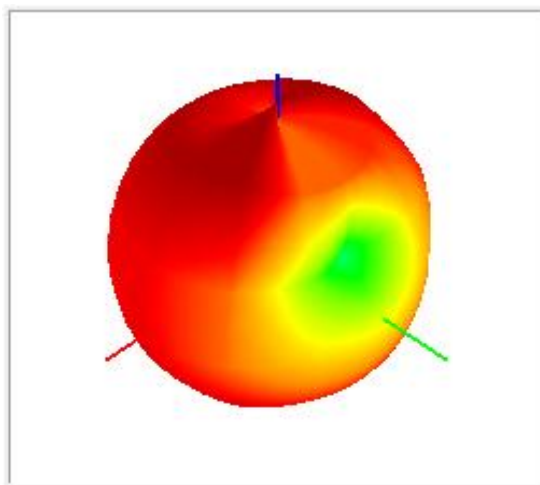
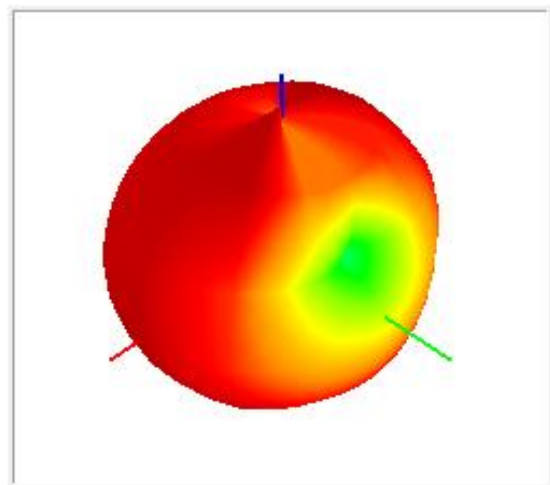
4.2 Test Result

测试1#机

L

2 2D Pattern——**BTANT**

TIS



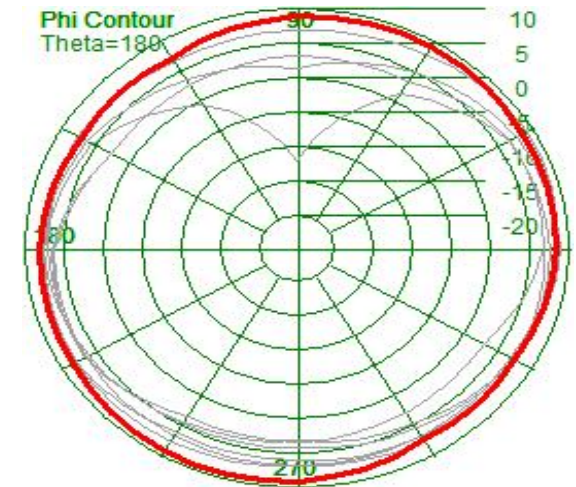
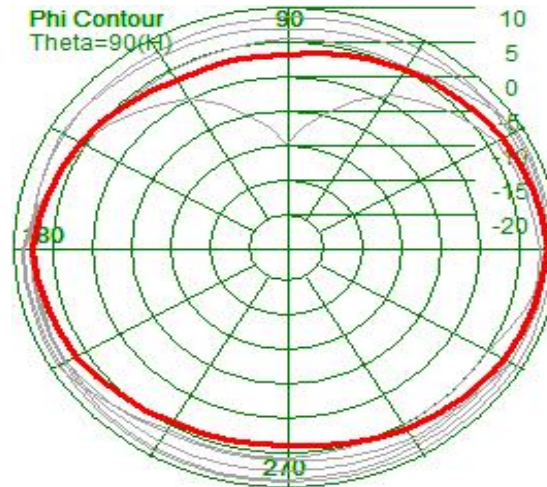
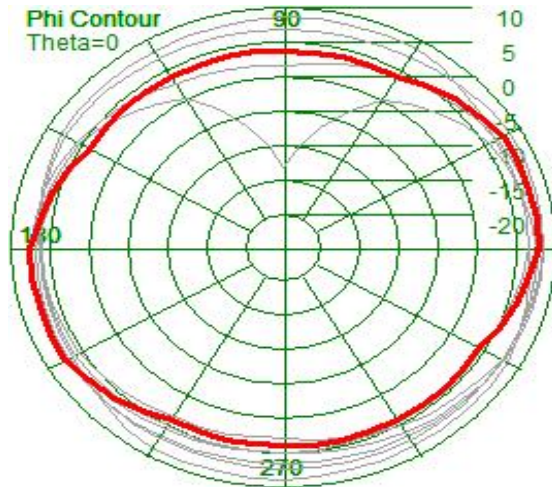
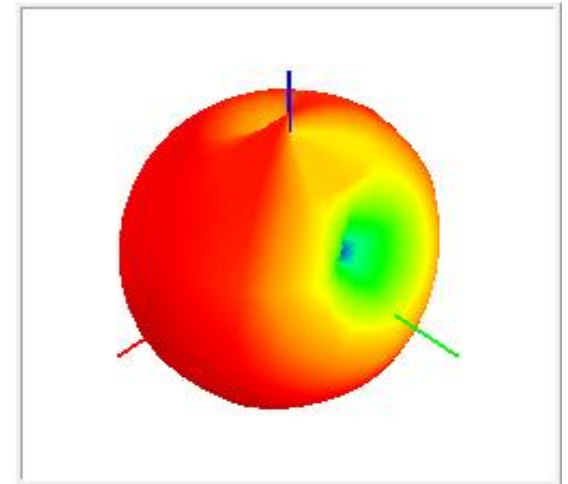
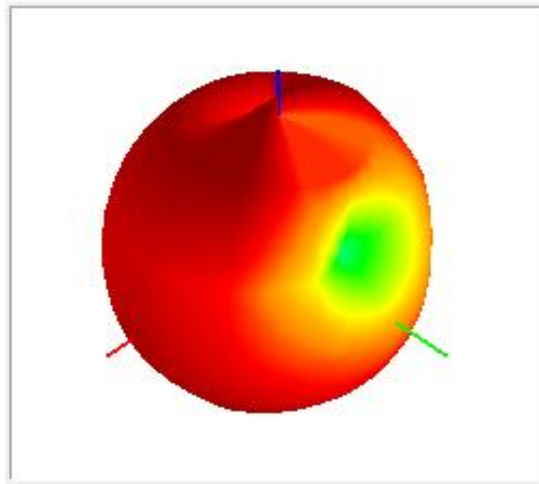
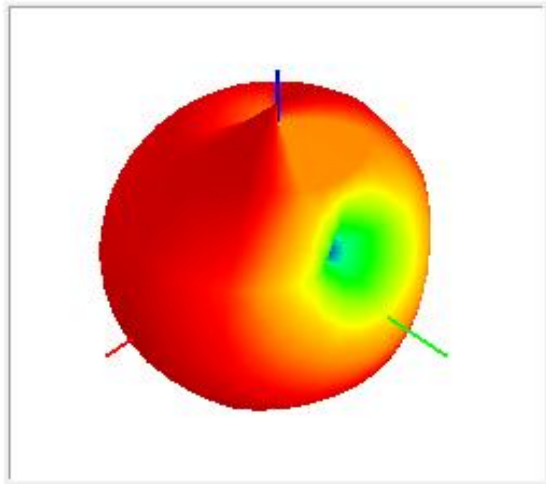
4.2 Test Result

测试1#机

R

1 2D Pattern——**BTANT**

TRP



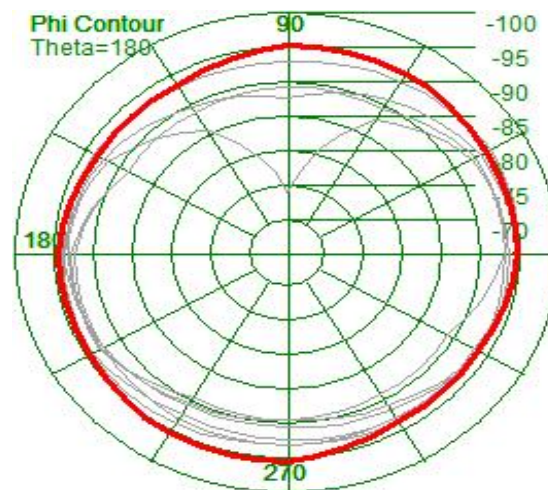
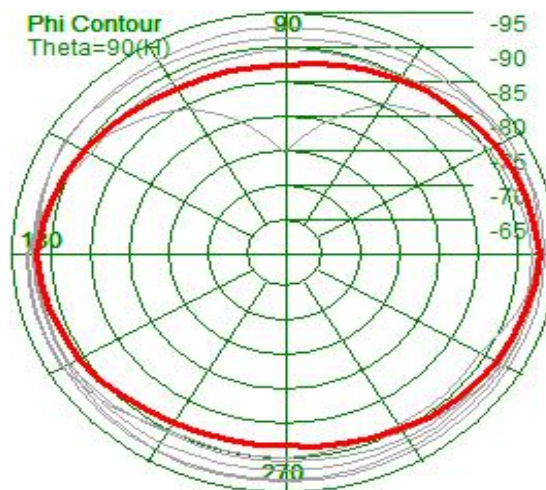
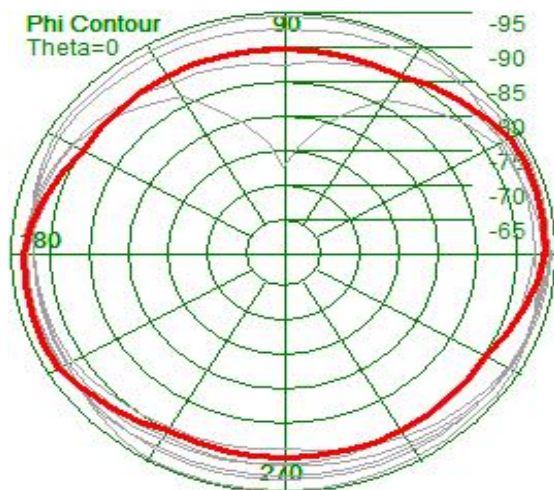
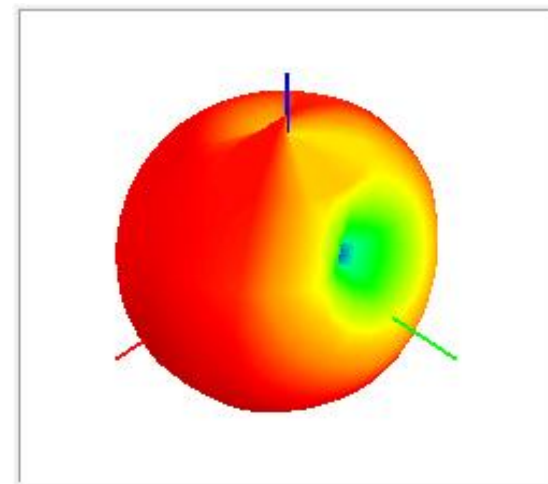
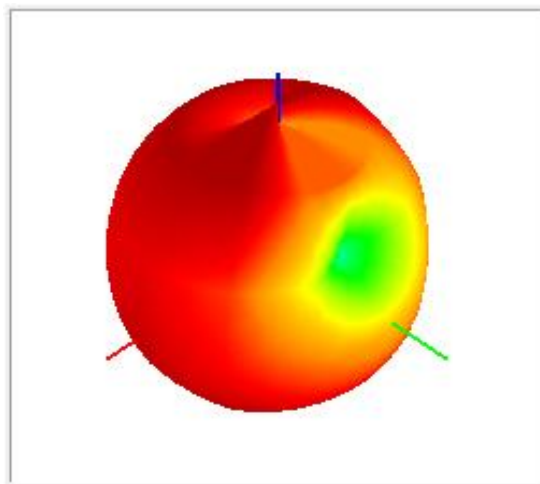
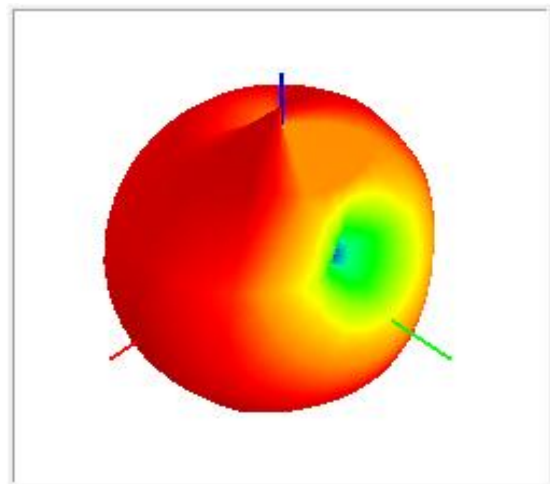
4.2 Test Result

测试1#机

R

2 2D Pattern——**BTANT**

TIS



4.1 OTA Data

模拟人头测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-3.24	-82.62
	39	-2.07	-82.97
	78	-3.23	-82.33
BT-R	0	-3.48	-82.27
	39	-2.18	-82.95
	78	-2.98	-82.45



4.1 OTA Data 自由场测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	6.59	-91.87
	39	7.30	-91.01
	78	6.86	-91.17
BT-R	0	5.78	-92.22
	39	6.20	-91.19
	78	5.47	-92.17

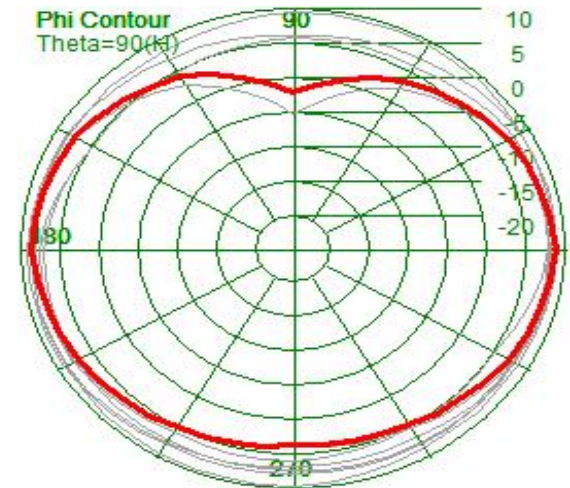
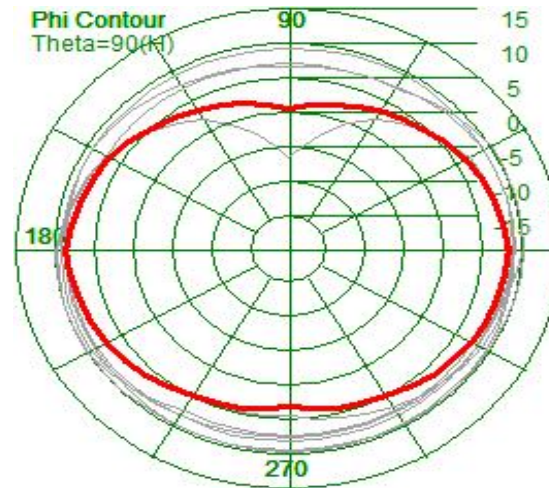
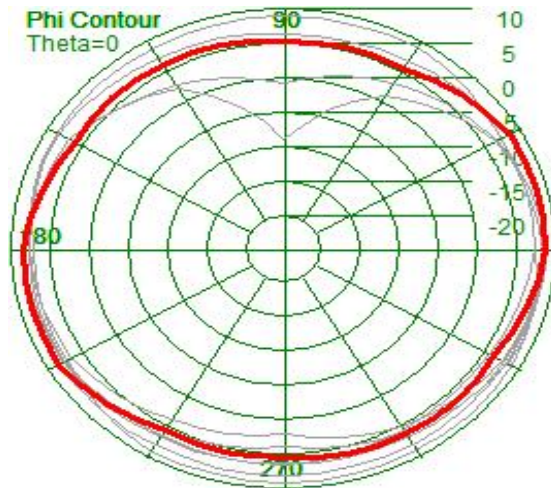
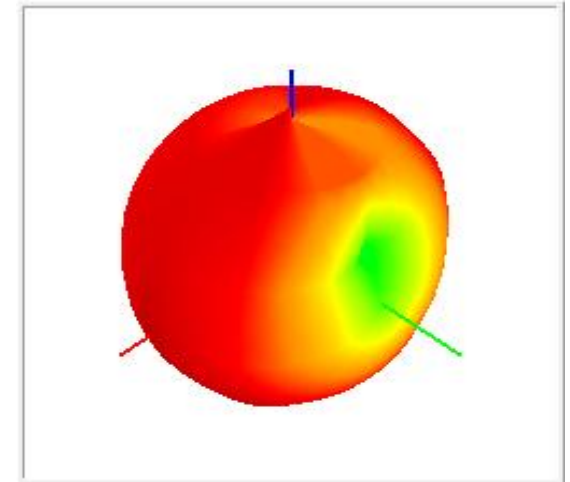
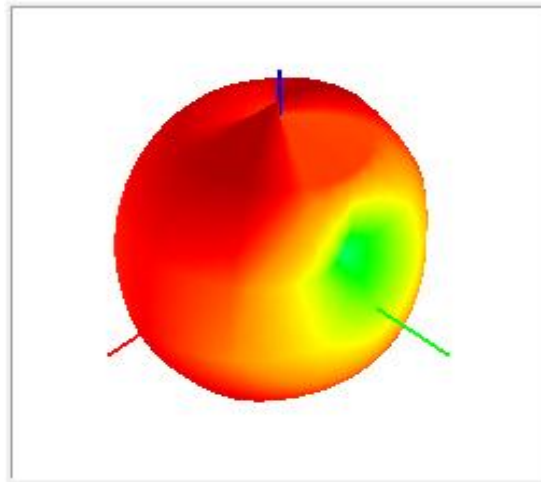
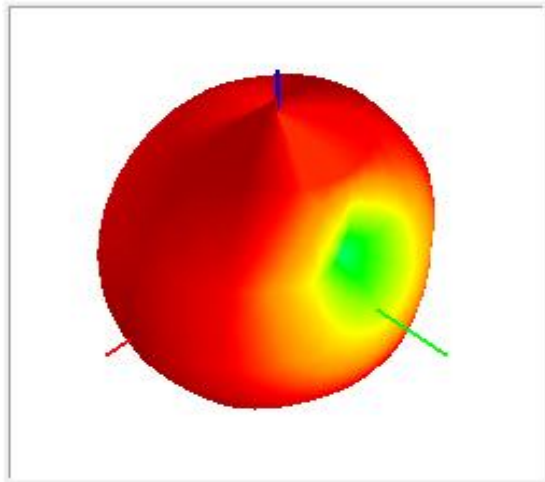
4.2 Test Result

测试2#机

L

1 2D Pattern——**BTANT**

TRP



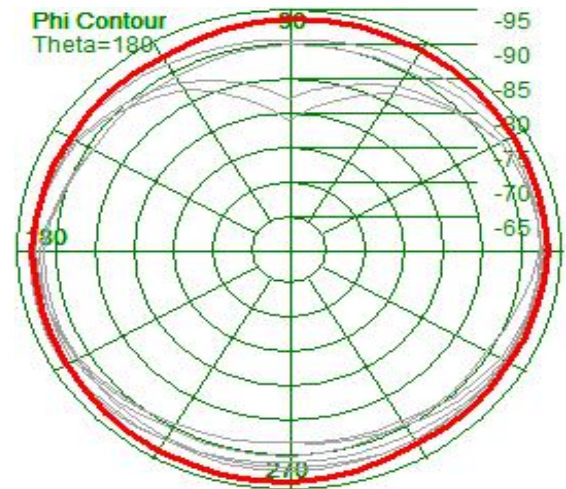
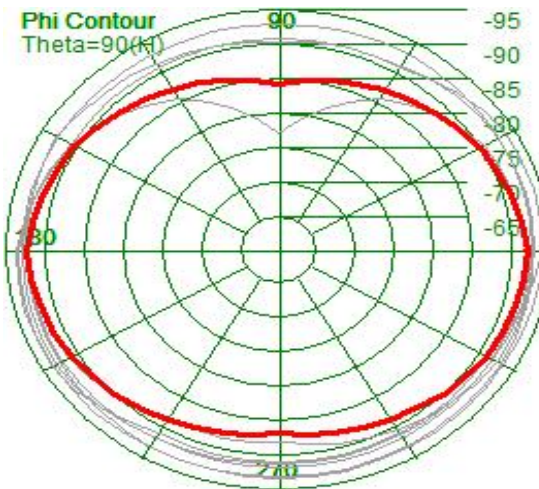
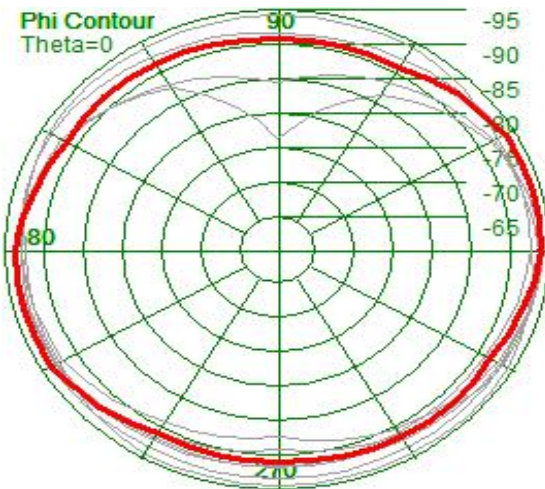
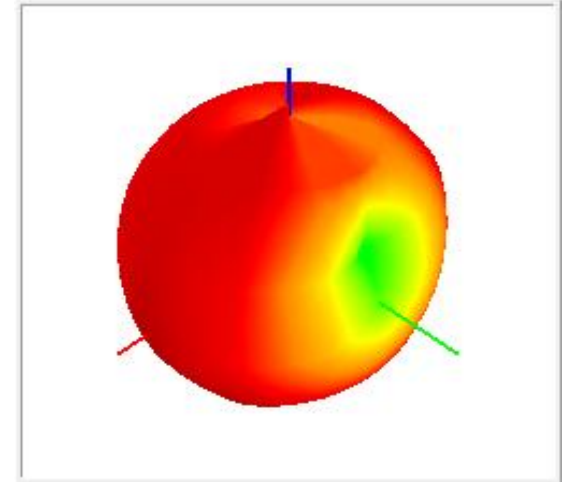
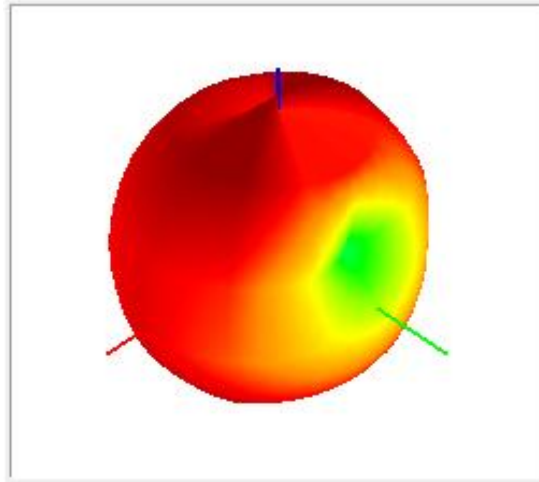
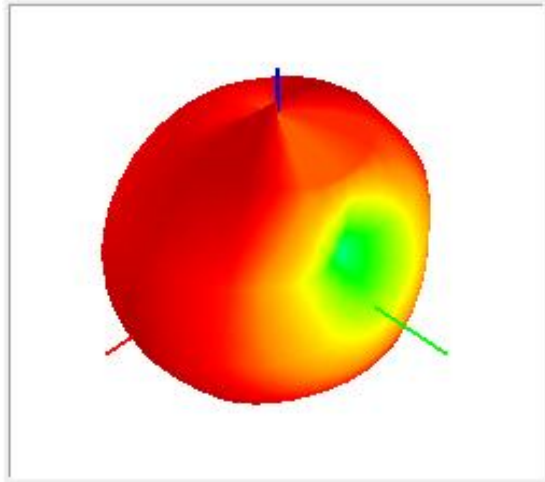
4.2 Test Result

测试2#机

L

2 2D Pattern——**BTANT**

TIS



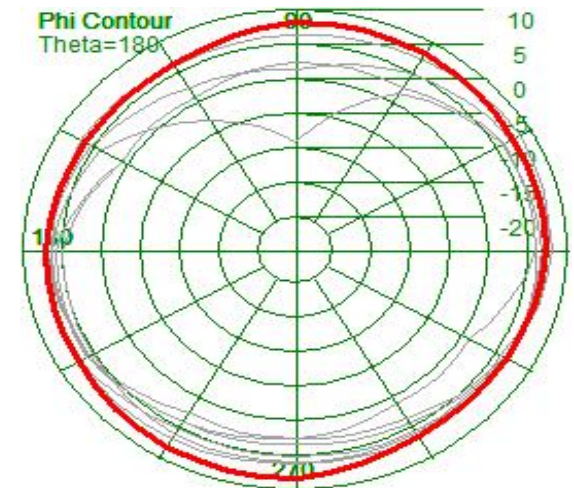
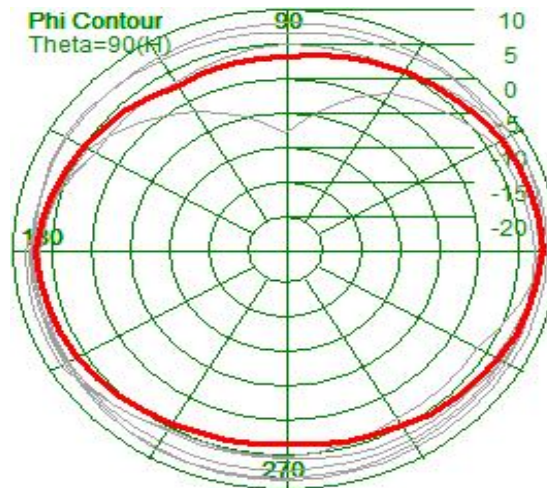
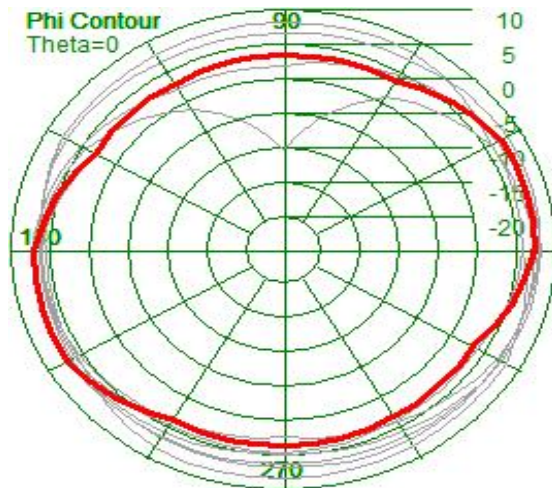
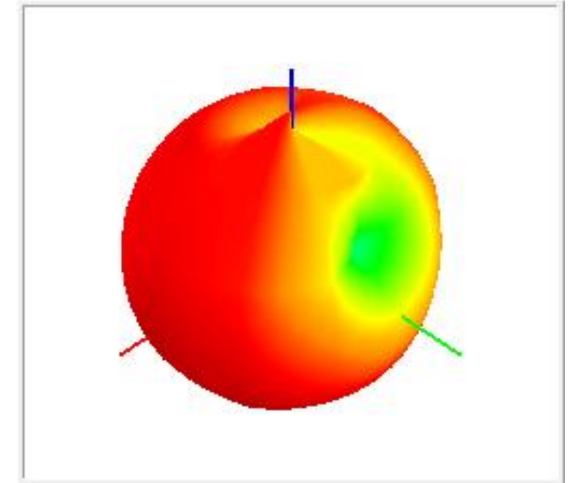
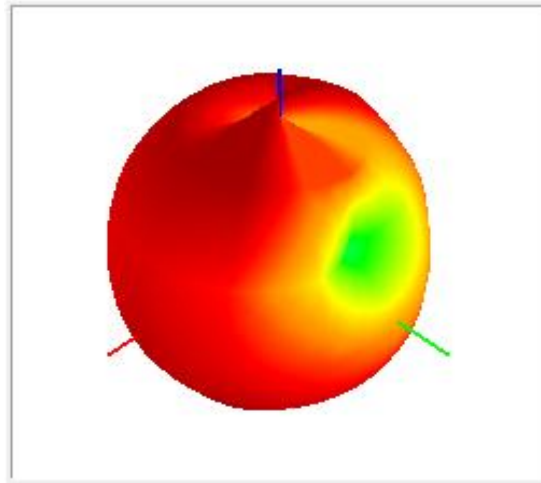
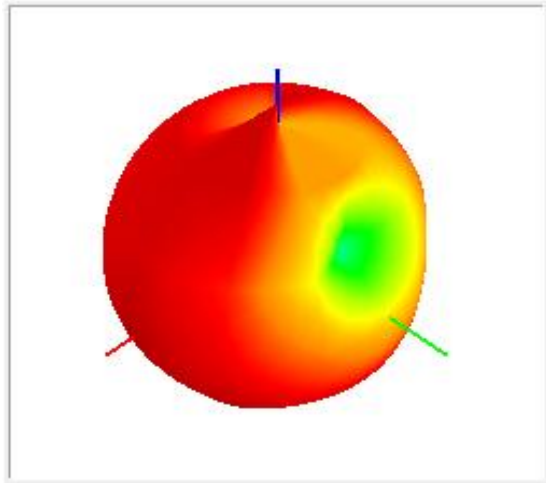
4.2 Test Result

测试2#机

R

1 2D Pattern——**BTANT**

TRP



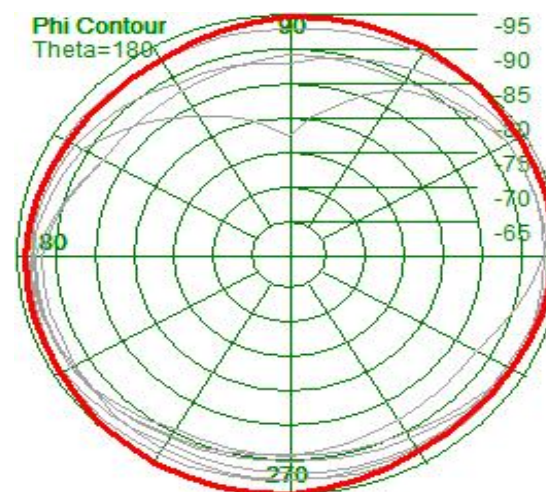
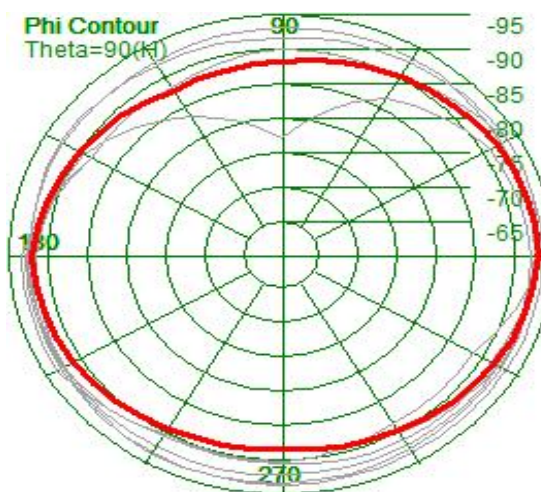
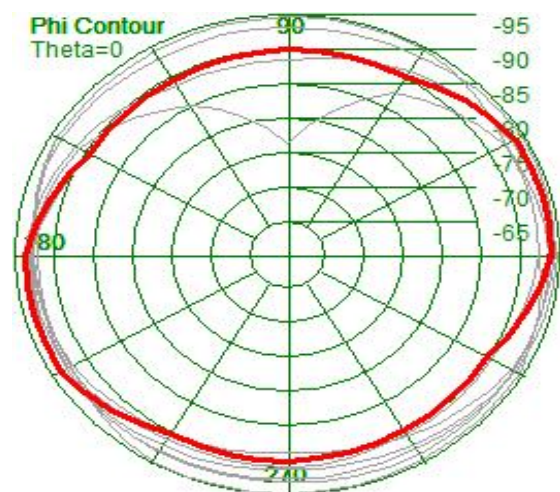
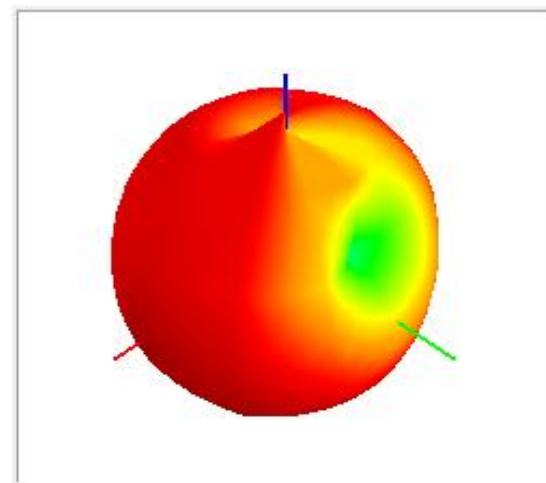
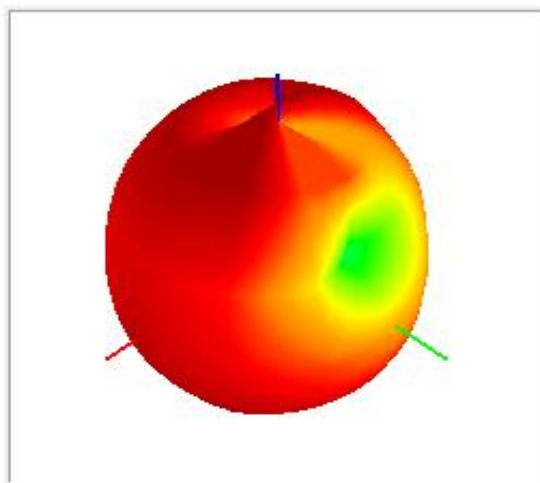
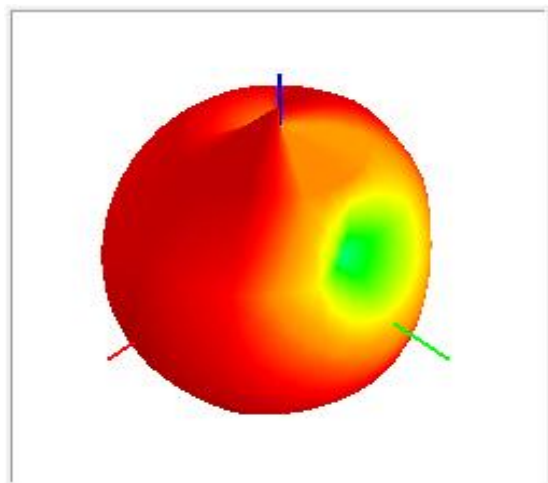
4.2 Test Result

测试2#机

R

2 2D Pattern——**BTANT**

TIS



4.1 OTA Data 模拟人头测试数据

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT-L	0	-3.41	-82.12
	39	-2.24	-82.87
	78	-3.28	-82.09
BT-R	0	-2.89	-82.37
	39	-2.22	-83.03
	78	-3.23	-82.04

Thank you!