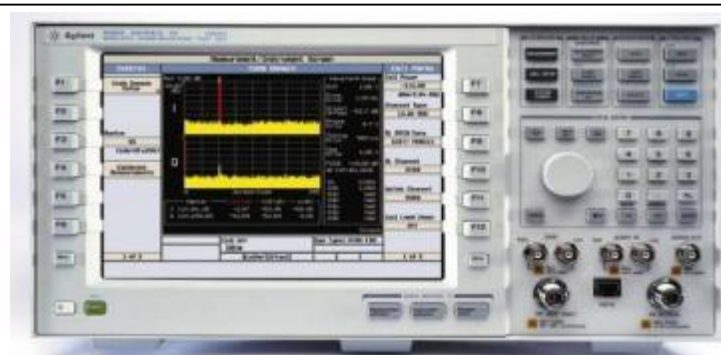




Customer	
Project	BH01
Antenna Revision	A0
Prepared by	18814303605
Checked by	
Date :	2025. 05. 08

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 **BH01** The antenna operating frequency at 2400MHz0-2500MHz 。 All test data are showed as below.

Content

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

3.1 S11 Parameter

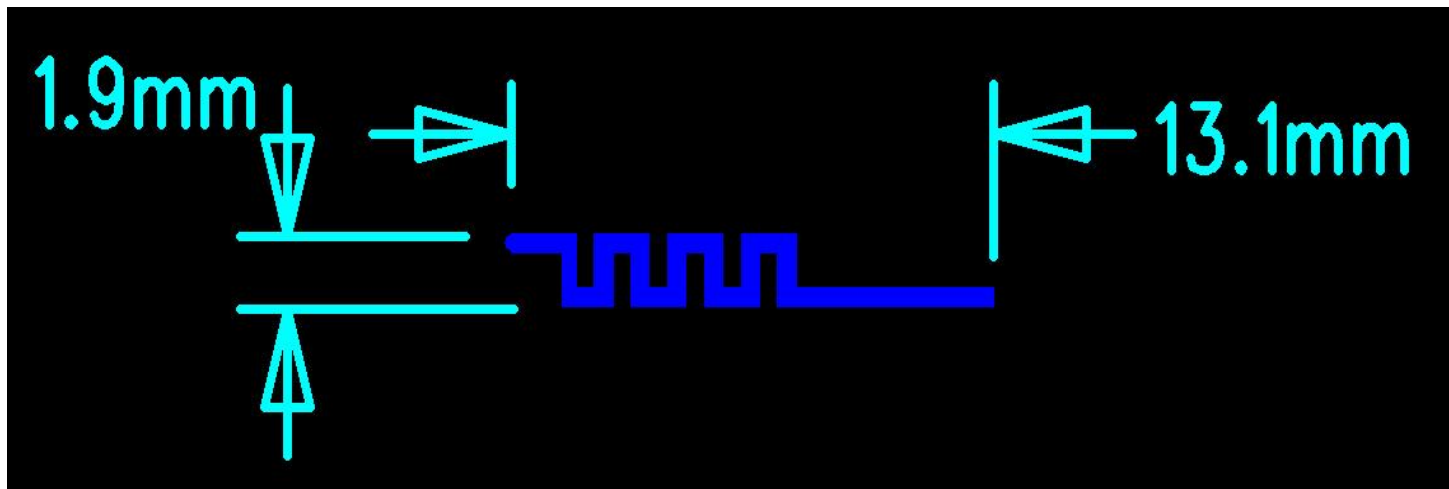
3.2 Gain & Efficiency

3.3 2D Pattern

4. OTA

4.1Test Result

4.2 2D Pattern



Onboard serpentine antenna
Manufacture: ZHUHAI JIELI TECHNOLOGY CO.,LTD
Address:Zhuhai Xiangzhou Nanping Technology Yuankexing Road No.333,Xiangzhou Zhuhai Guangdong China

BH01

匹配图

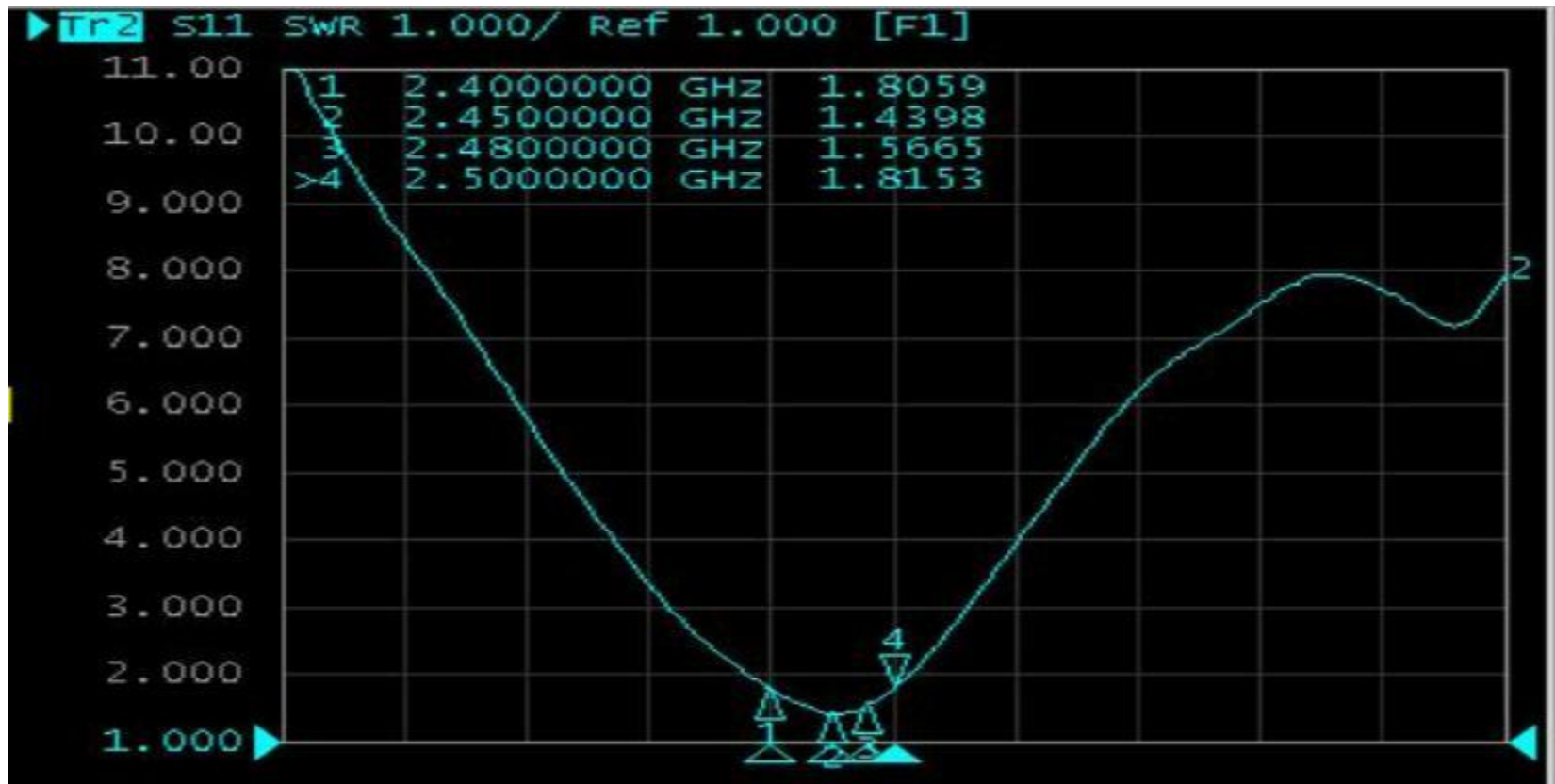


1.5P

3P

3.1 Test Result

1.S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.80	1.43	1.56	1.81

3.1 Test Result

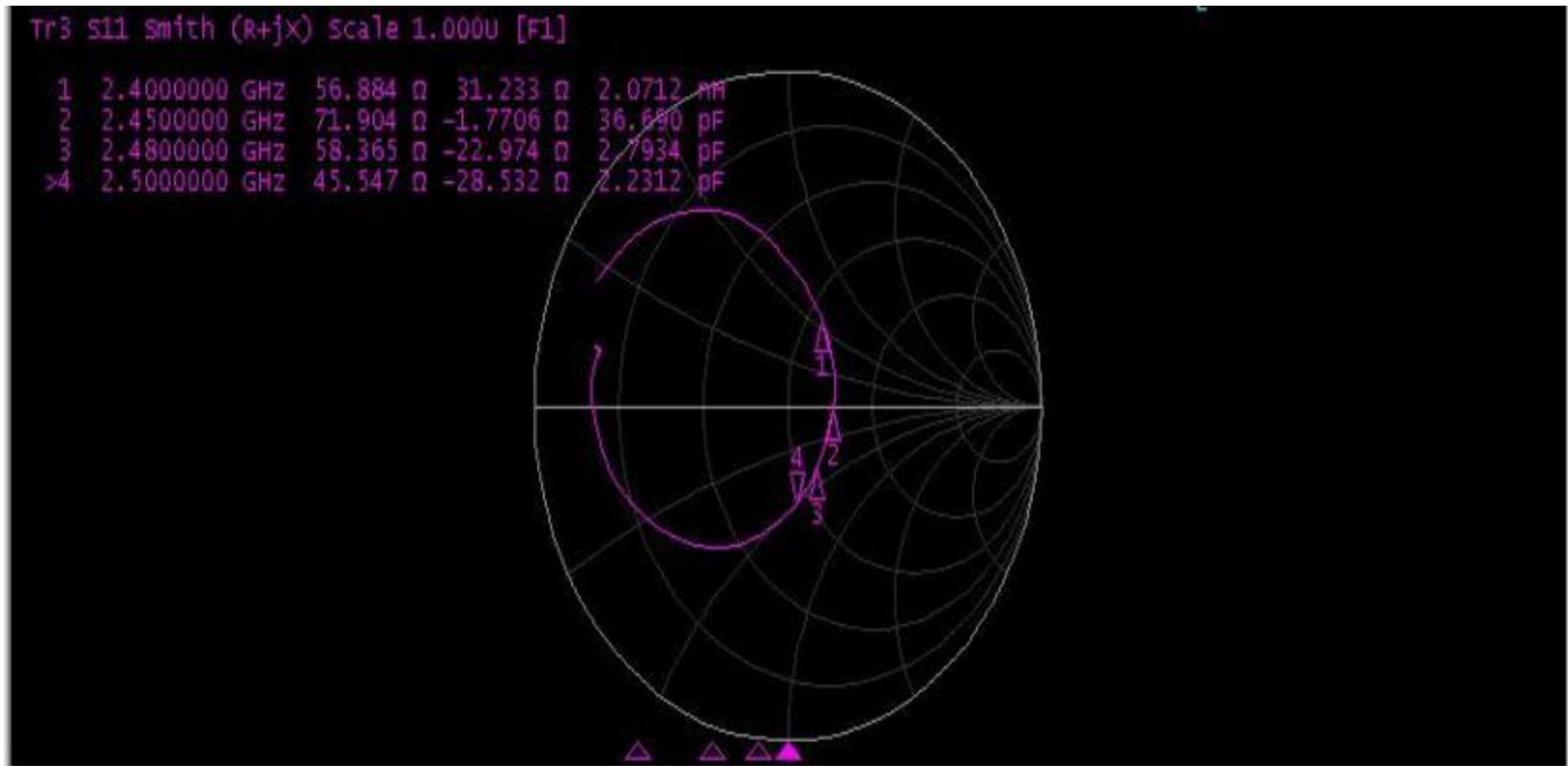
2. S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-10.83	-14.88	-13.12	-10.76

3.1 Test Result

3.S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	56.88	71.90	58.36	45.54

3.2 Test Result

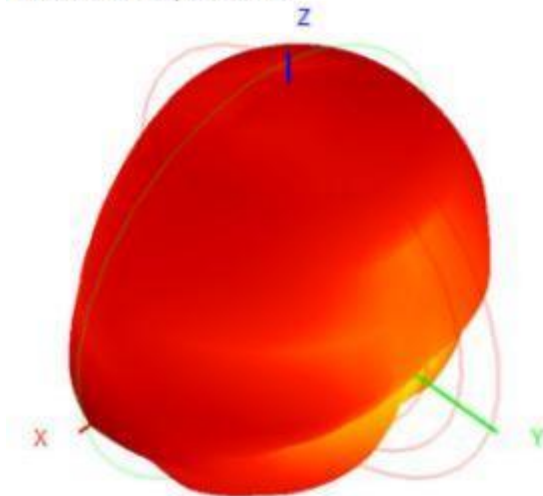
1 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	12.90	-3.93
2410	13.98	-3.57
2420	14.31	-3.22
2430	15.80	-2.52
2440	16.57	-2.57
2450	17.08	-2.82
2460	17.04	-2.44
2470	17.39	-2.47
2480	16.66	-2.97

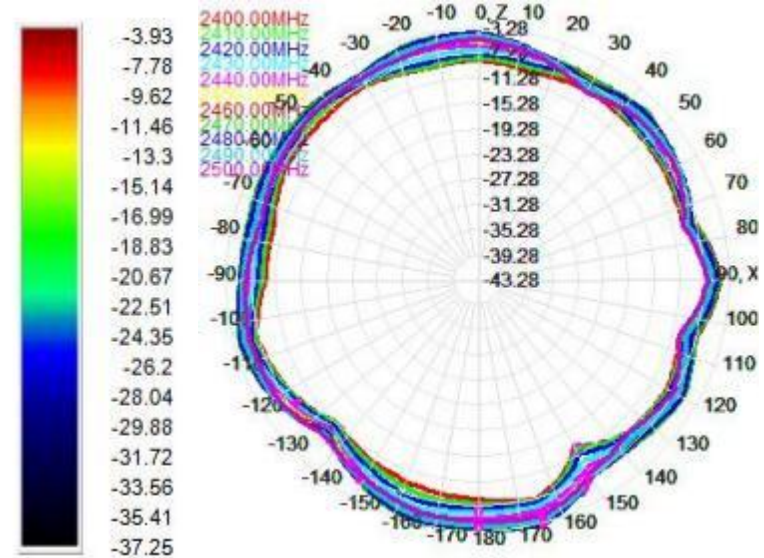
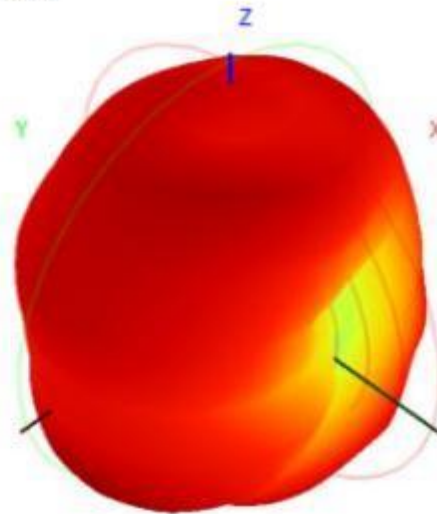
3.3 Test Result

1 2D Pattern——BTANT

2400.0MHz Total, Eff:12.9%



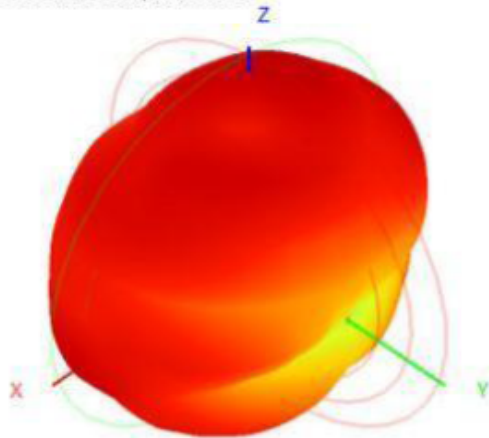
Back View



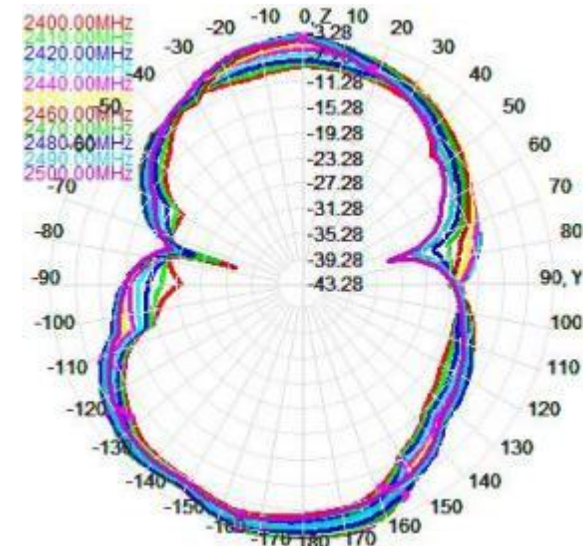
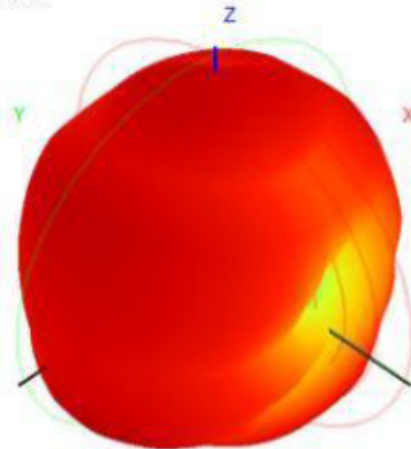
3.3 Test Result

2 2D Pattern—BTANT

2450.0MHz Total, Eff:17.1%



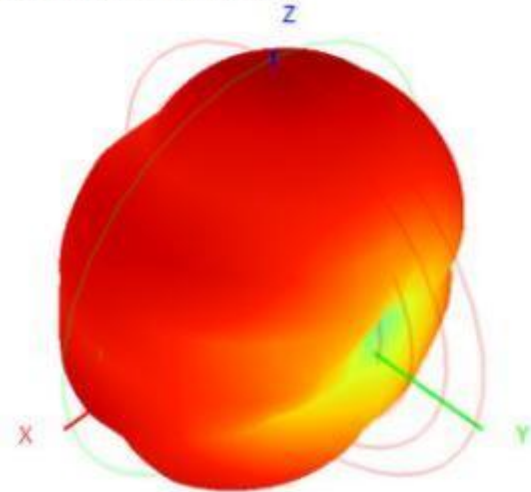
Back View



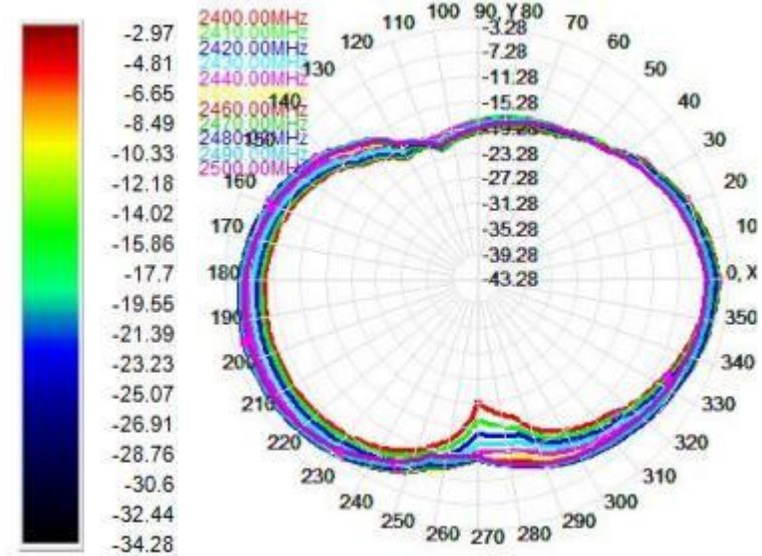
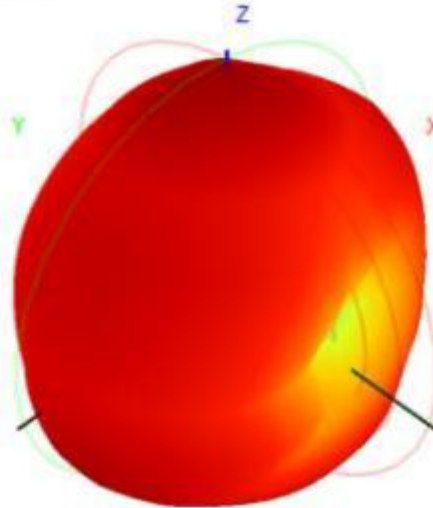
3.3 Test Result

3 2D Pattern—BTANT

2480.0MHz Total, Eff: 16.7%



Back View



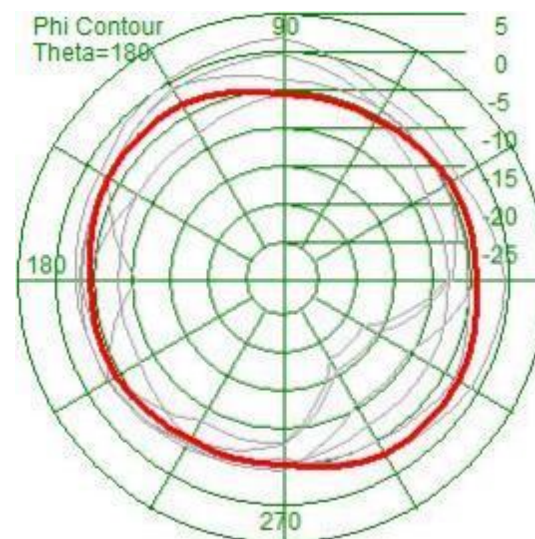
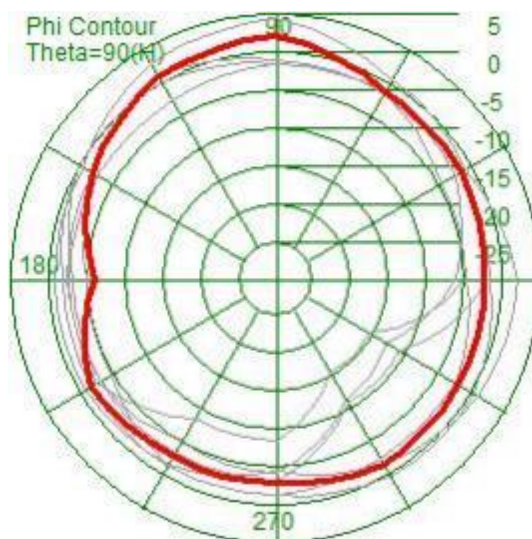
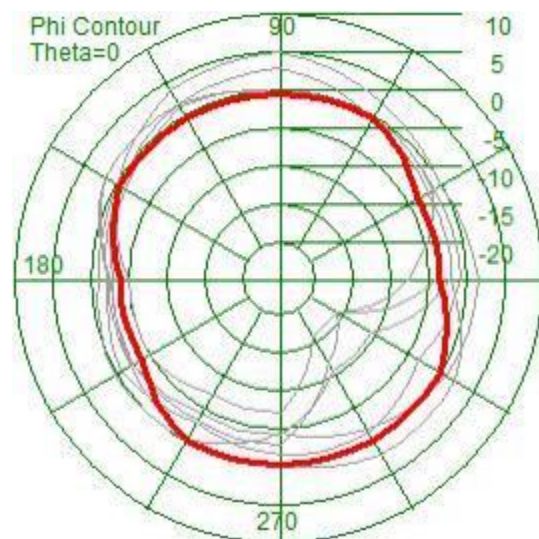
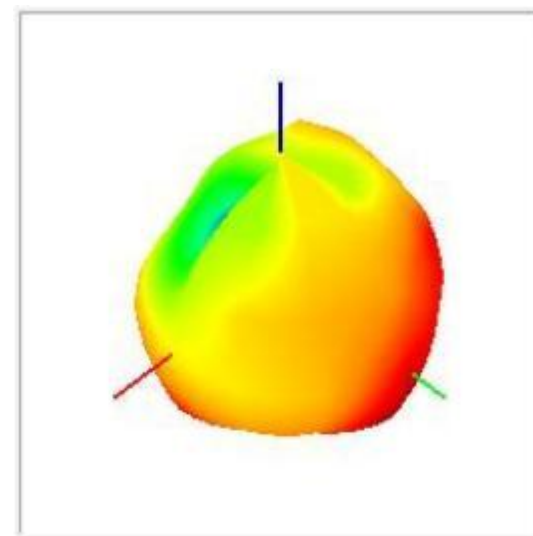
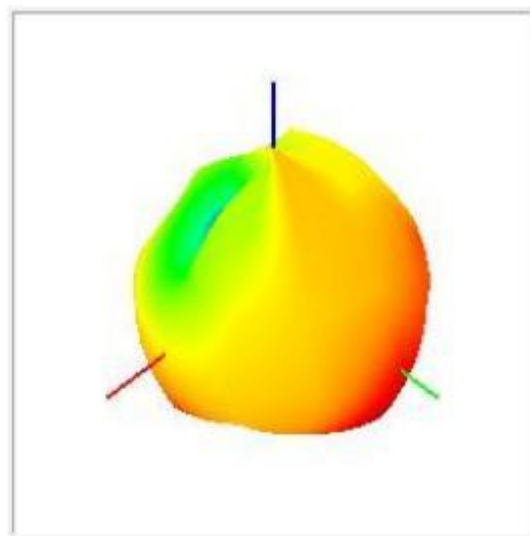
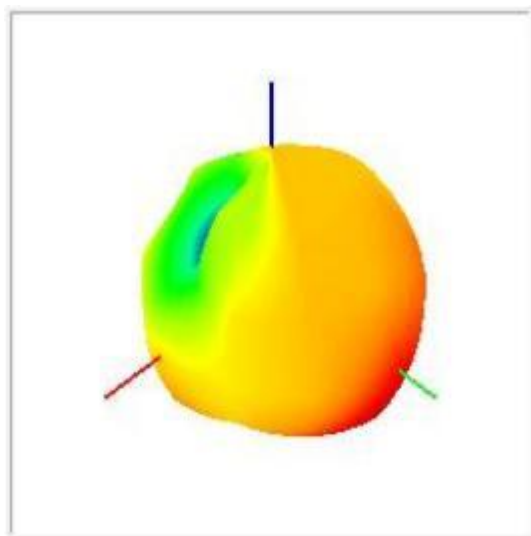
4.1 OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	2 D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	-1.06	-79.75
	39	-1.75	-78.85
	78	-2.01	-74.30

4.2 Test Result

1 2D Pattern_____BTANT

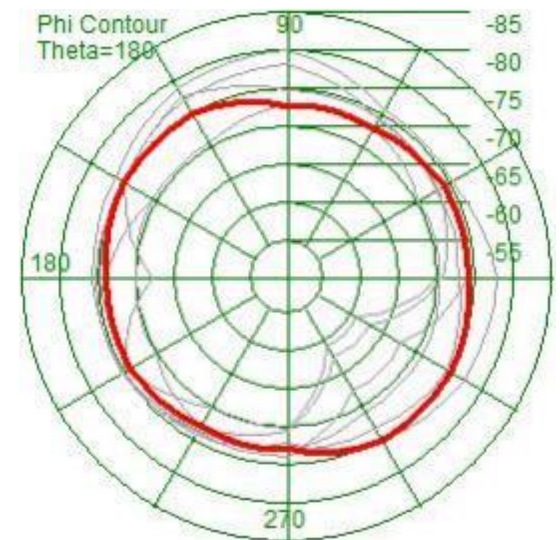
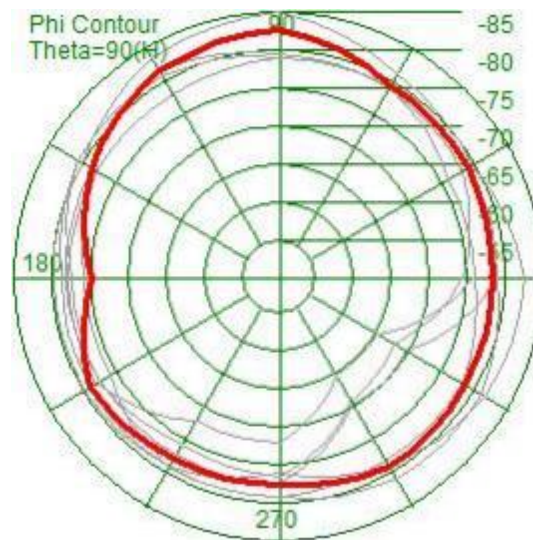
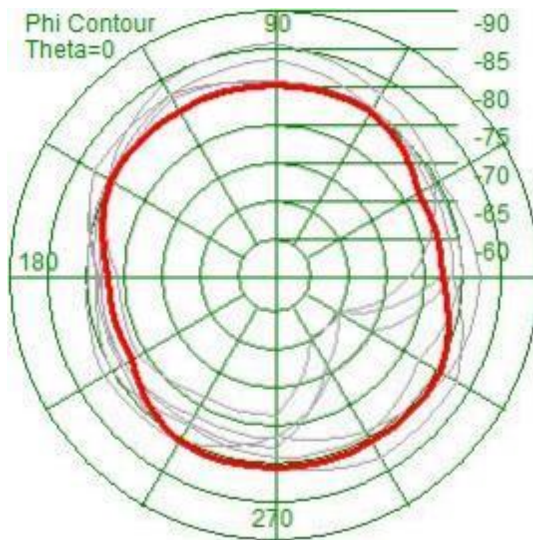
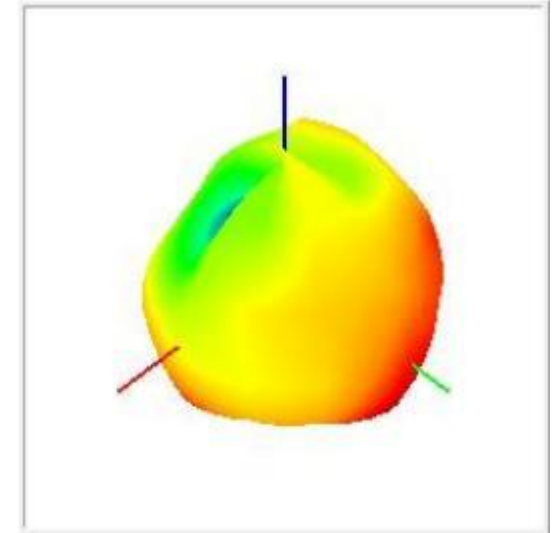
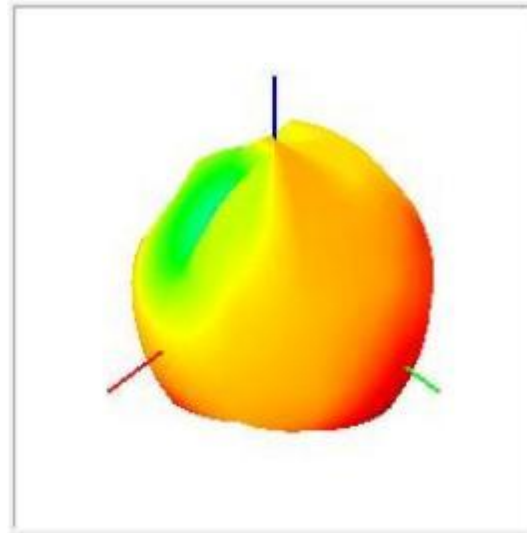
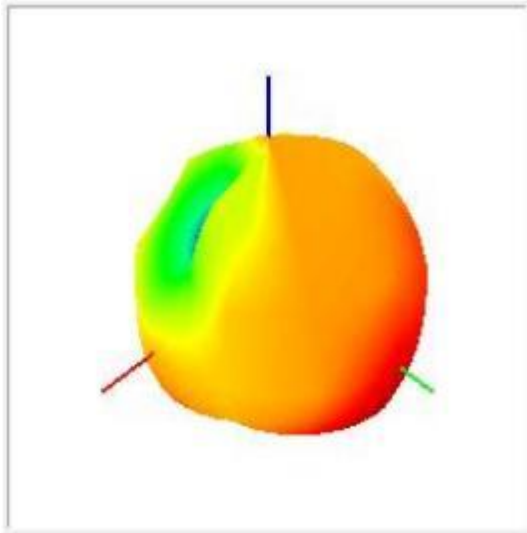
TRP



4.2 Test Result

2 2D Pattern____**BTANT**

TIS



Thank you!