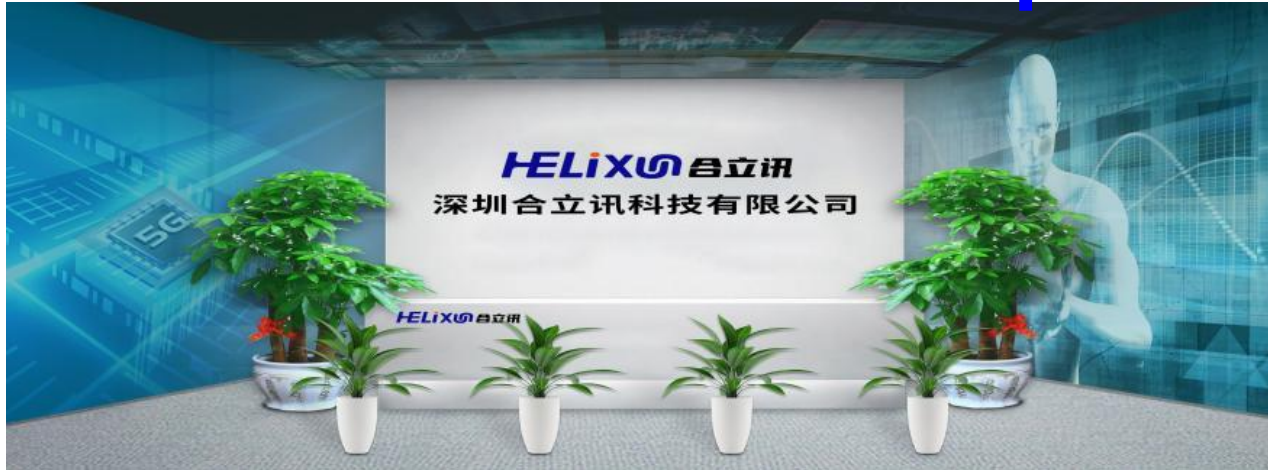


Antenna Test Report



Customer	Yinbeiqi (Shenzhen) Technology Co., Ltd.
Project	YINPAGE Free 1
address	1609-1,Building A,Bantian International CenterNo.5 Huancheng South Road,Ma 'an Tang CommunityLonggang District, Shenzhen
Prepared by	15993920520
Checked by	17279710721
Date :	2023. 09. 06

Purpose

This report is to measure the performance of antenna for YINPAGE Free 1The antenna operating frequency at 2400MHz0-2500MHz 。
All test data are showed as below.

Content

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

4.1 S11 Parameter-VSWR

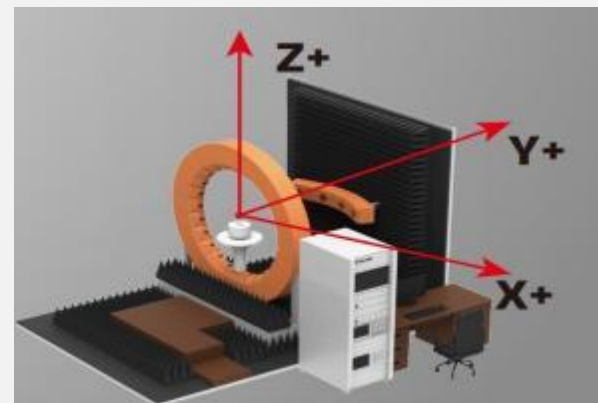
4.2 Gain & Efficiency

4.3 Test coordinate

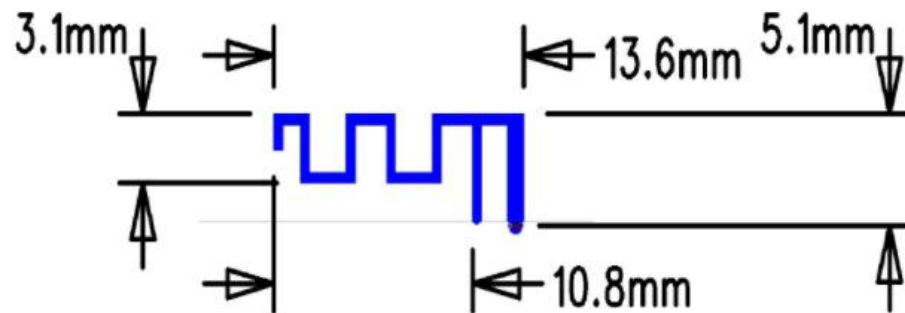
4.4 2D Pattern

1. 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

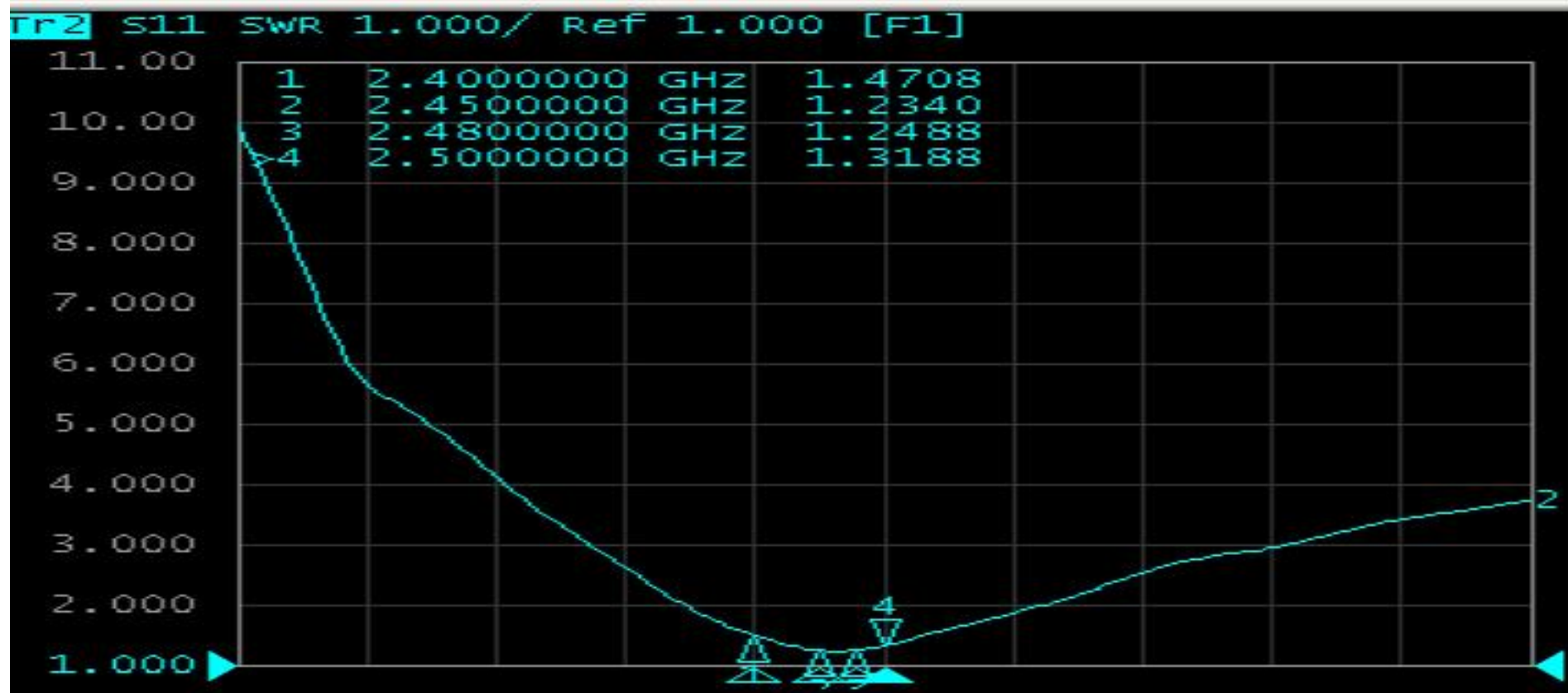


2. Product Overview & Dimension



4.Test Result

4.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.47	1.23	1.24	1.31

4. Test Result

4.1 S11 Parameter-Log Mag

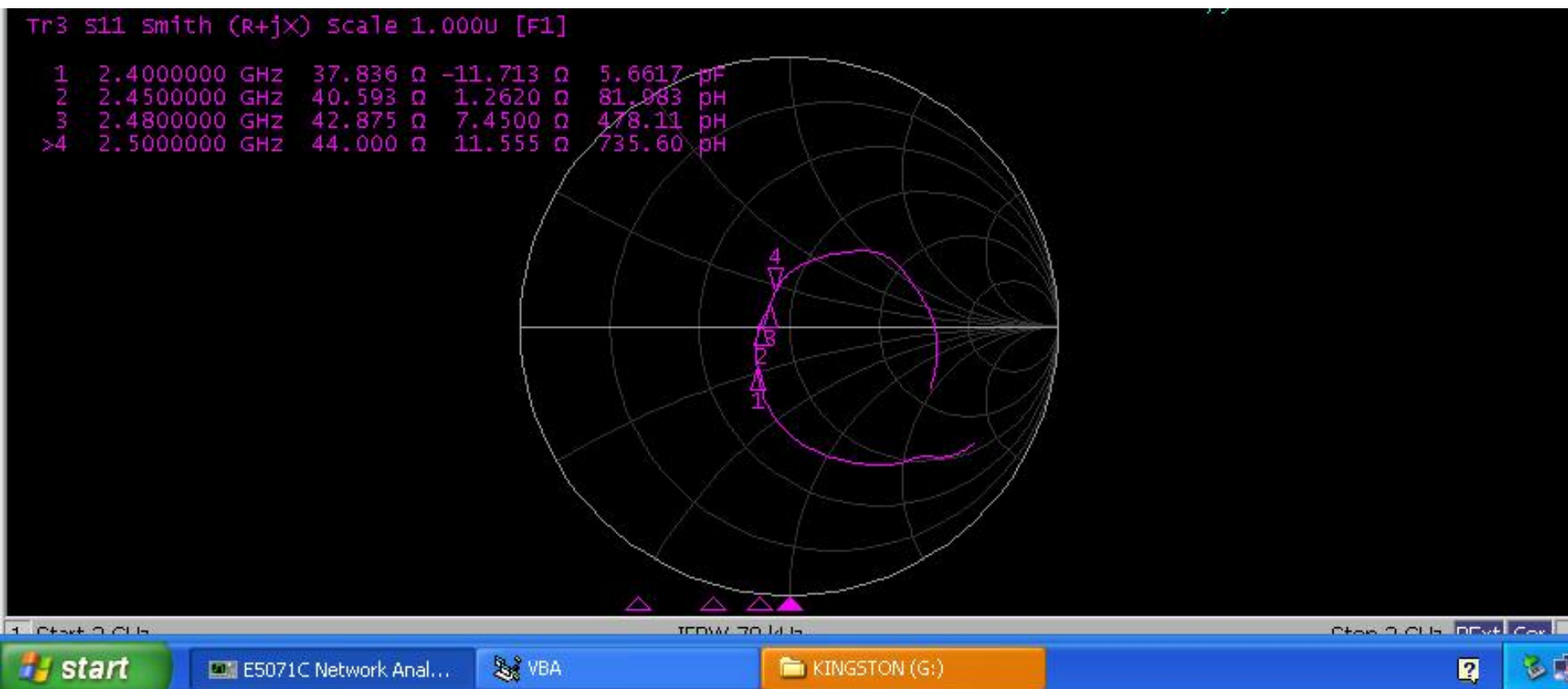
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F1]



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-14.39	-19.59	-19.12	-17.23

4.Test Result

4.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smith(Ω)	37.83	40.59	52.87	44.00

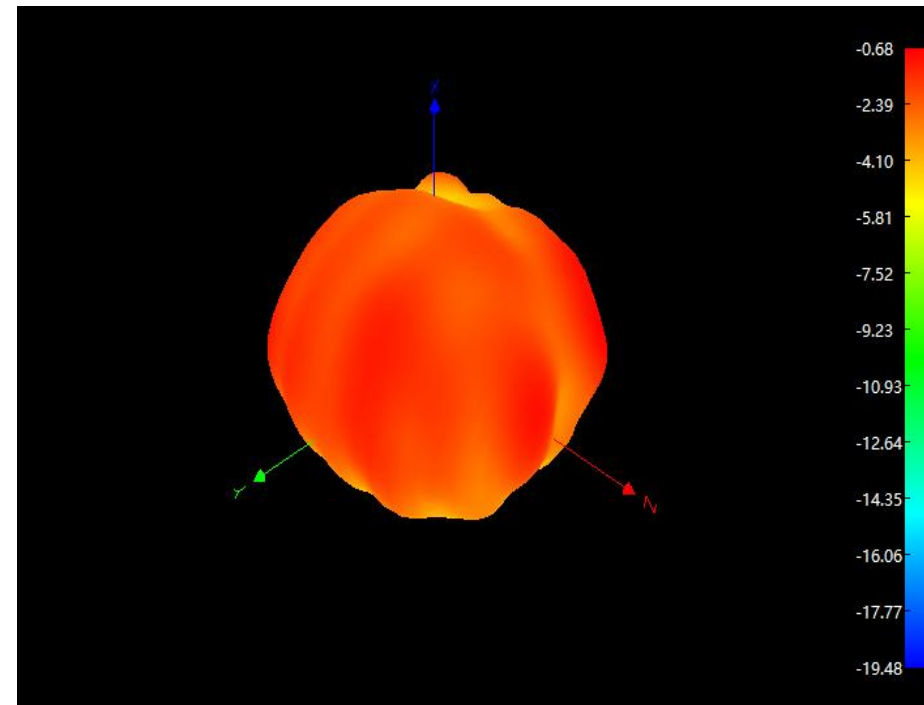
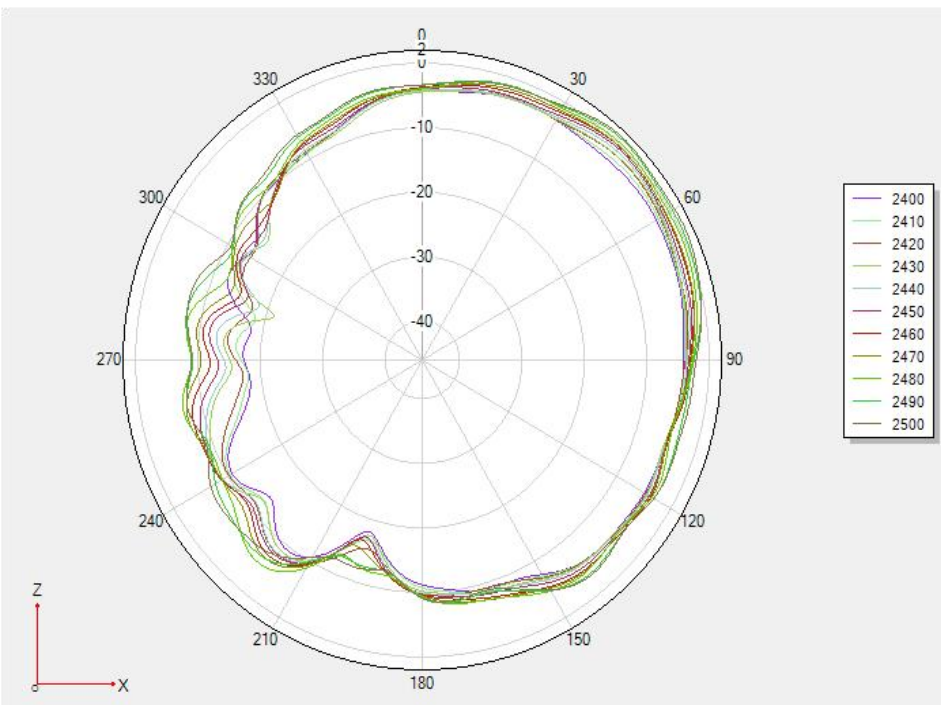
4. Test Result

4.2 Gain & Efficiency—**ANT**

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	28.38%	-0.68
2410	29.31%	-0.46
2420	30.9%	-0.37
2430	31.84%	-0.18
2440	33.96%	-0.19
2450	36.56%	0.01
2460	38.55%	0.29
2470	38.73%	0.66
2480	40.46%	1.00

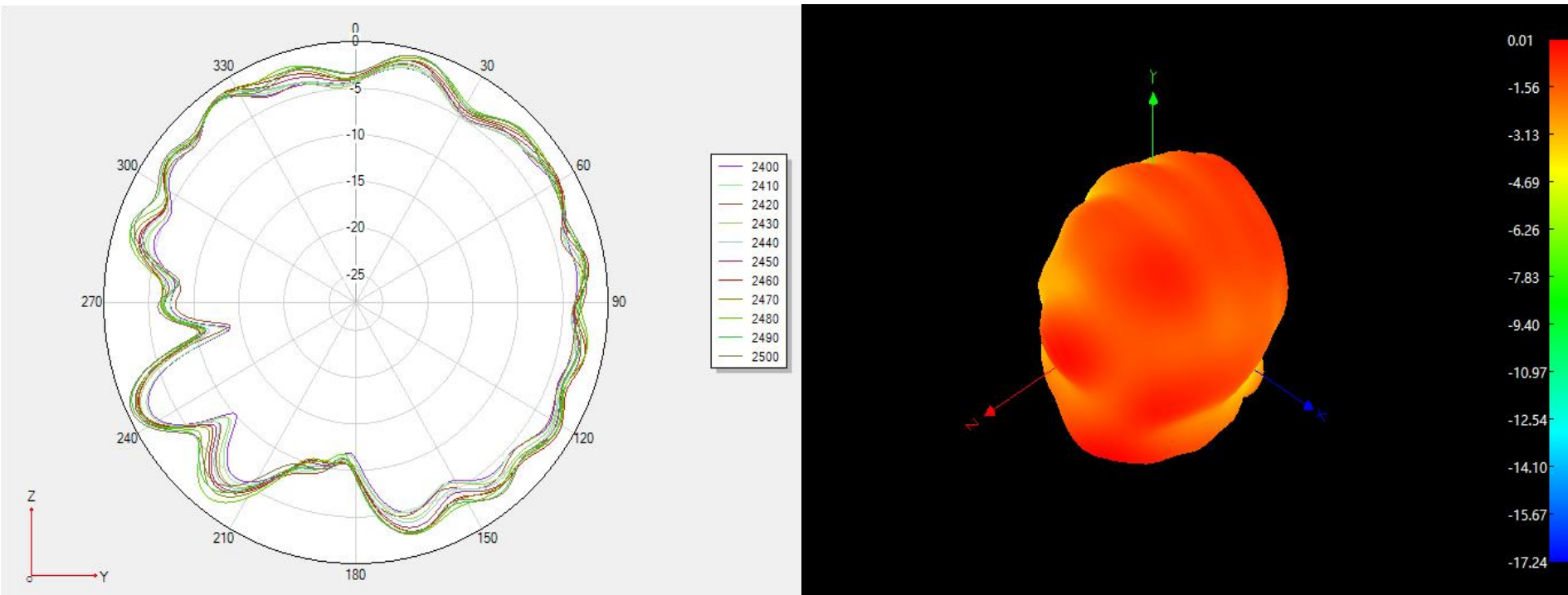
4. Test Result

4.3 2D Pattern—BT ANT



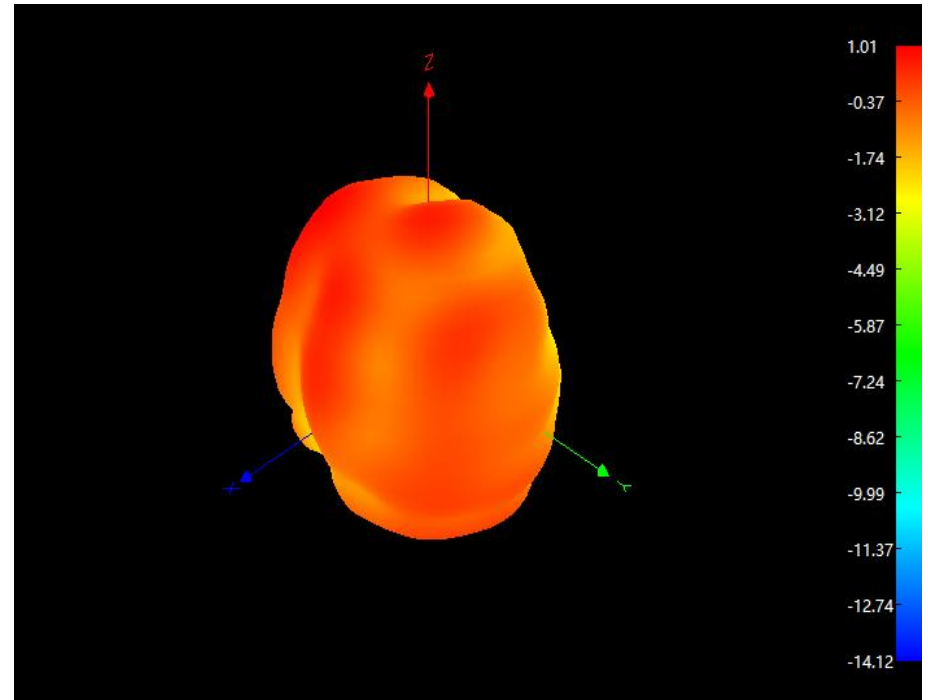
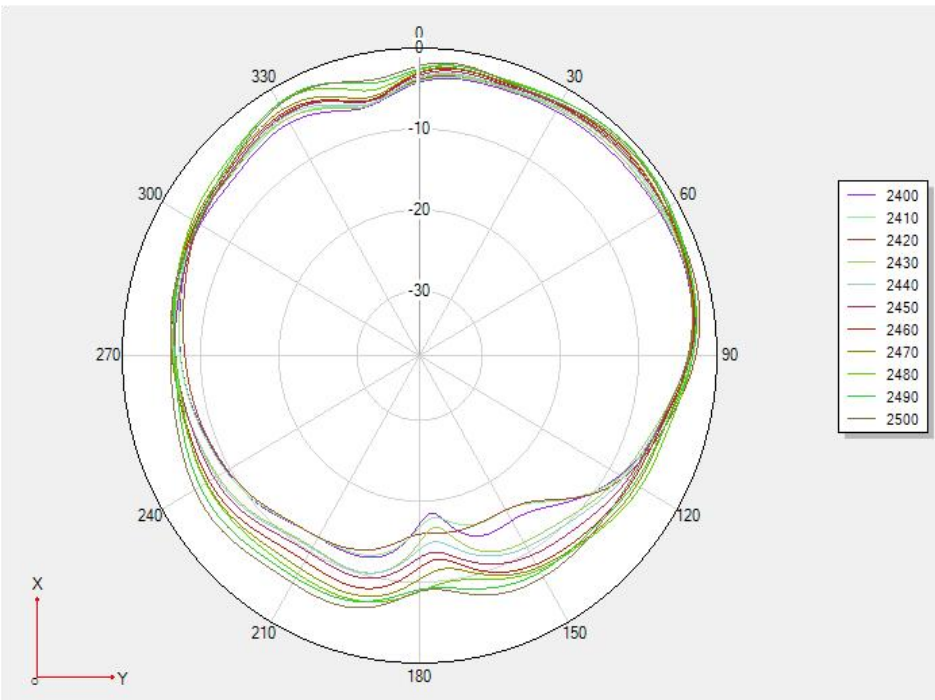
4. Test Result

4.3 2D Pattern—BT ANT



4. Test Result

4.3 2D Pattern—BT ANT

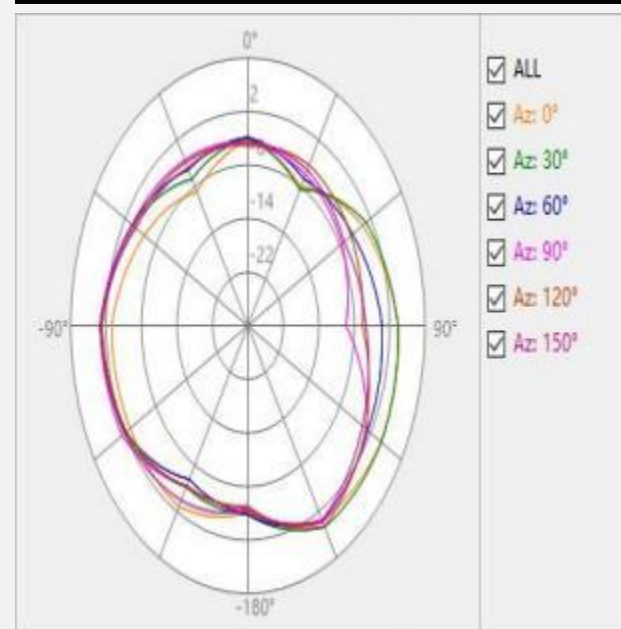
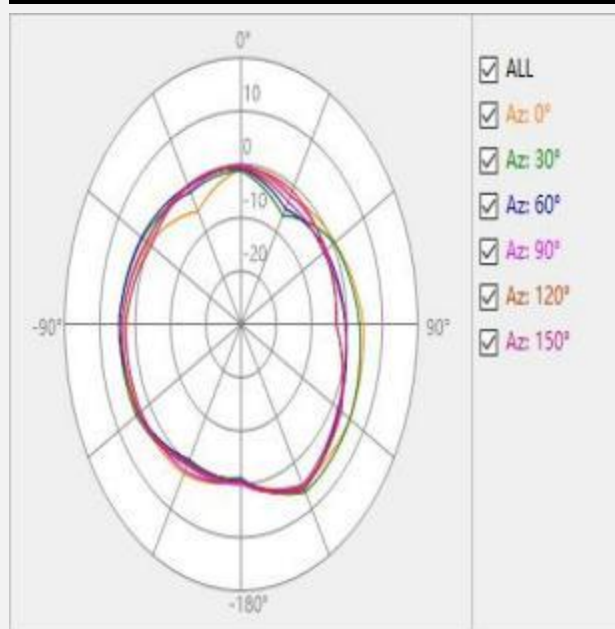
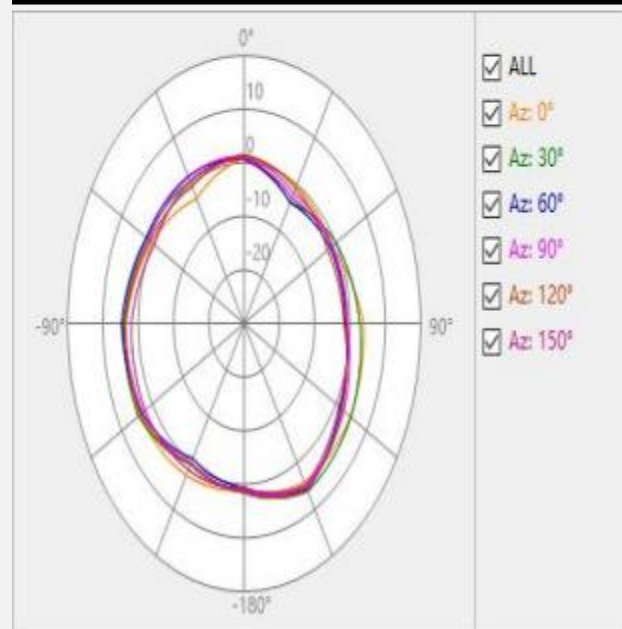
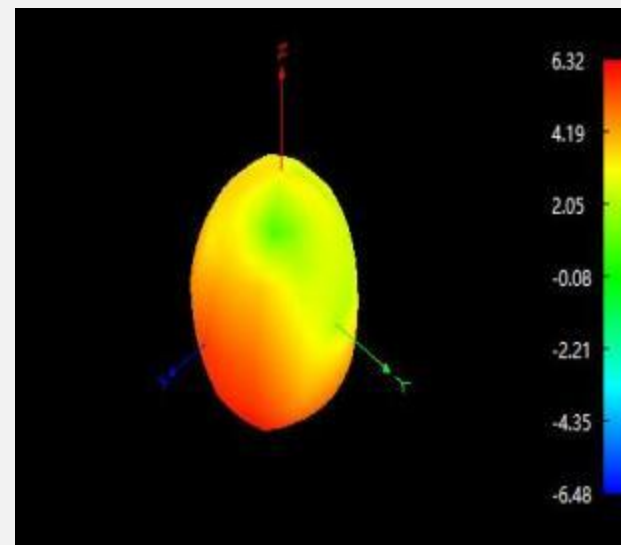
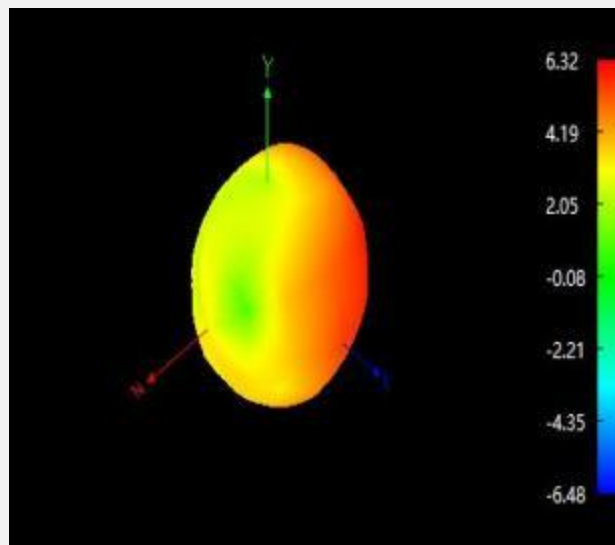
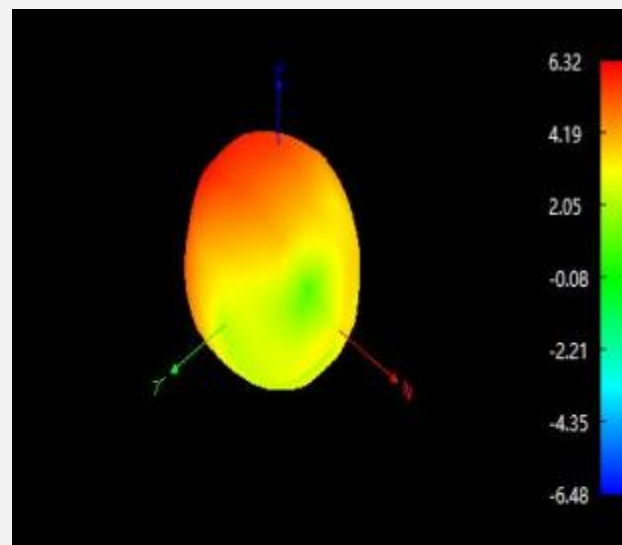


3.OTA Data

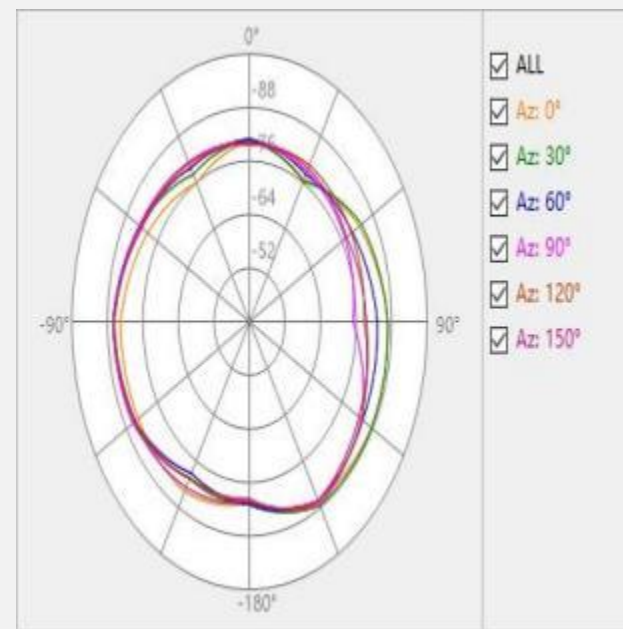
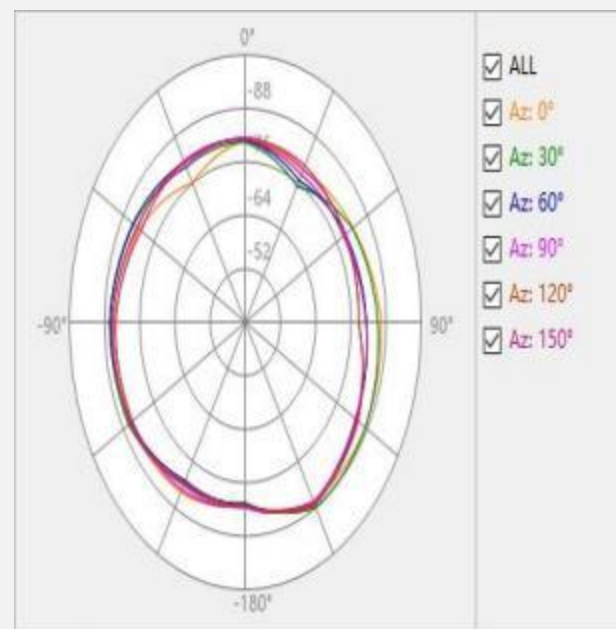
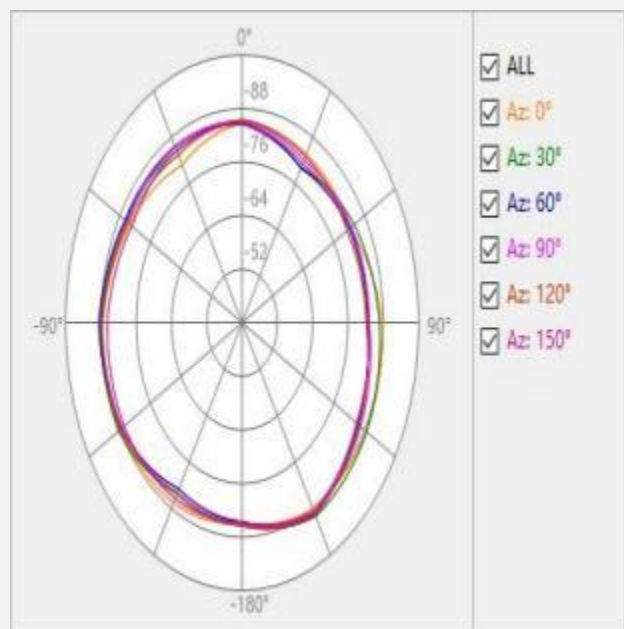
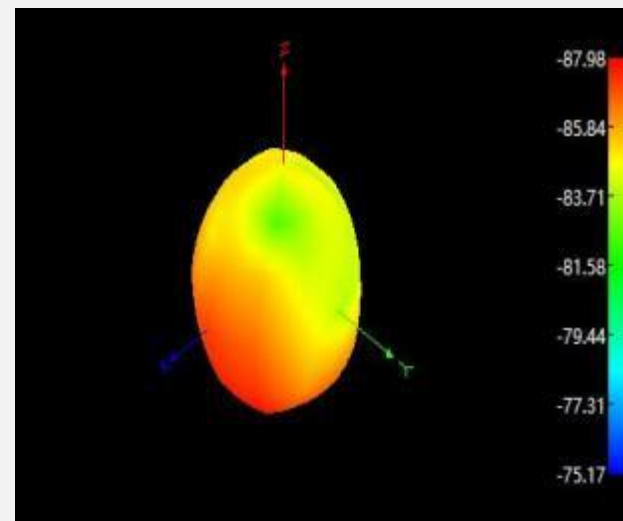
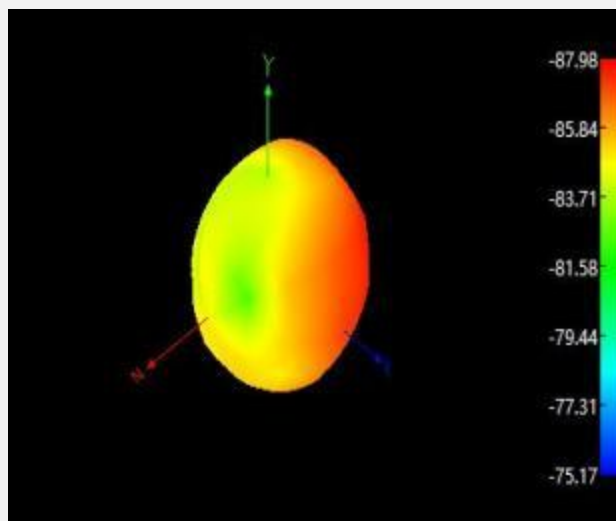
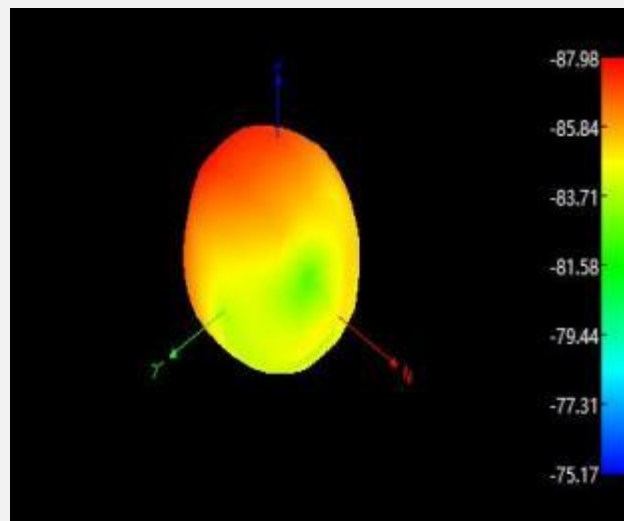
Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	1.69	-84.45
	39	2.91	-84.56
	78	2.81	-86.73

3. Test

Result



3. Test Result



Thank you!

Shenzhen Helixun Technology Co., Ltd.

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