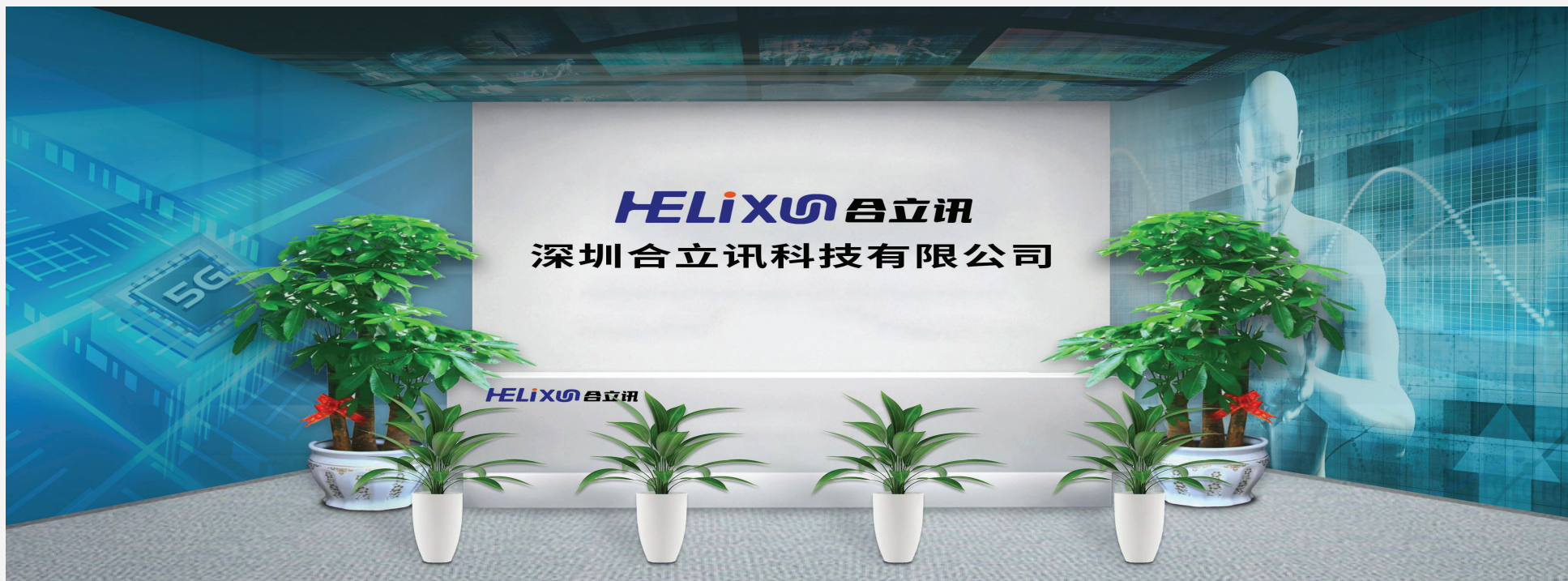




Shenzhen Helixun Technology Co., Ltd

Add: Room 1905, Building 2, Jiufang Plaza, Tizai Road, Gongle Community, Xixiang Subdistrict, Bao'an District, Shenzhen

Antenna Test Report



Customer	SKY WING
Model	01
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2023. 11. 15



Purpose

This report is to measure the performance of antenna for O3 The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

Content

1.Test system

2.Product Overview Dimension

3.Test Result

3.1 S11 Parameter

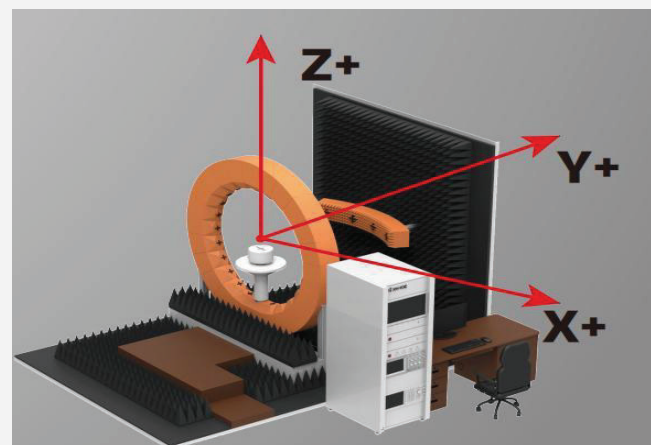
3.2 Gain & Efficiency

3.3 2D Pattern

4.OTA

1.TestSystem

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

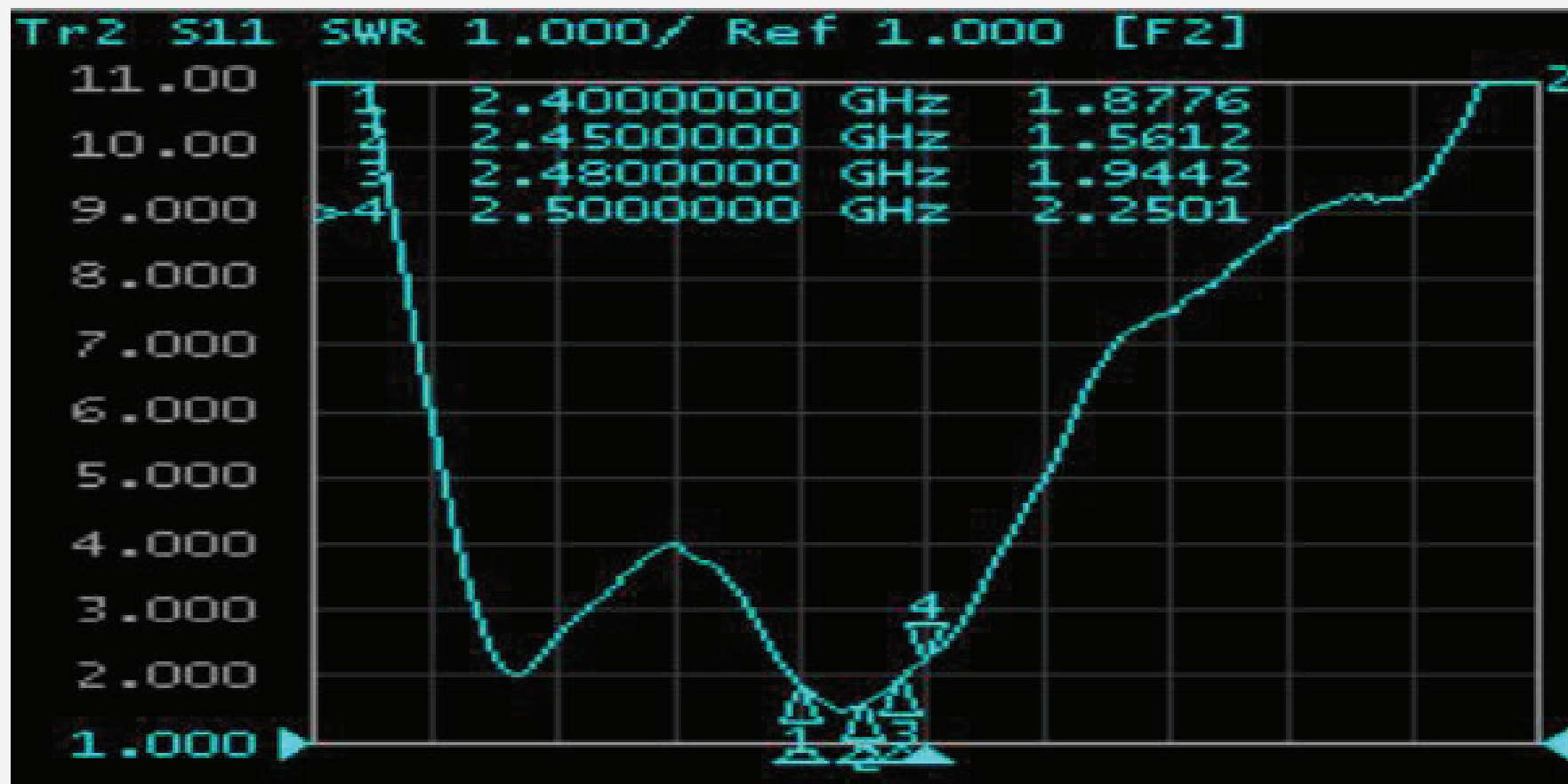


2.Product Overview & Dimension



3.Test Result

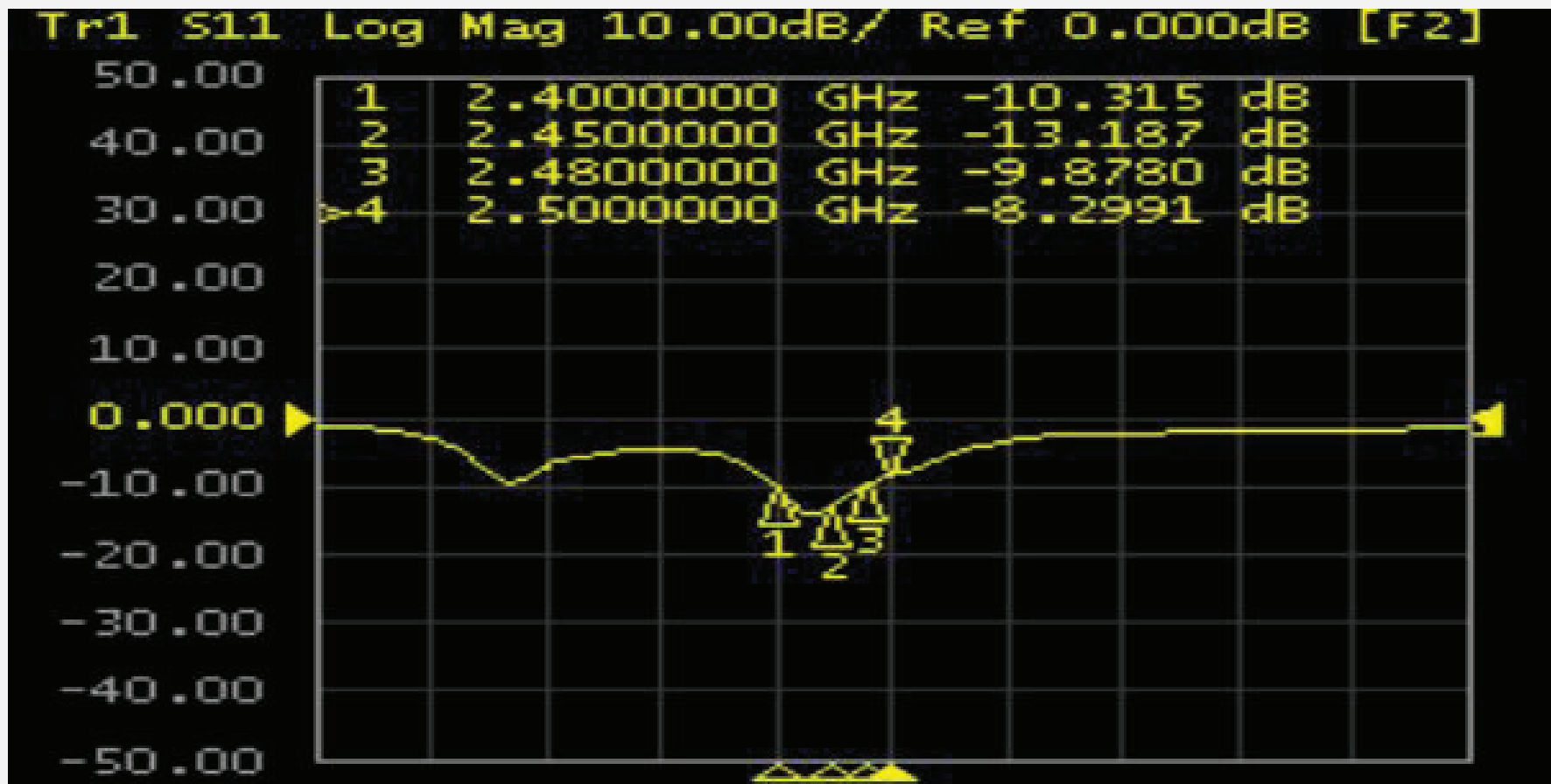
3.1 S11 Parameter-VSWR



Frequency (MHz)	2400	2450	2480	2500
VSWR	1.87	1.56	1.94	2.25

3. Test Result

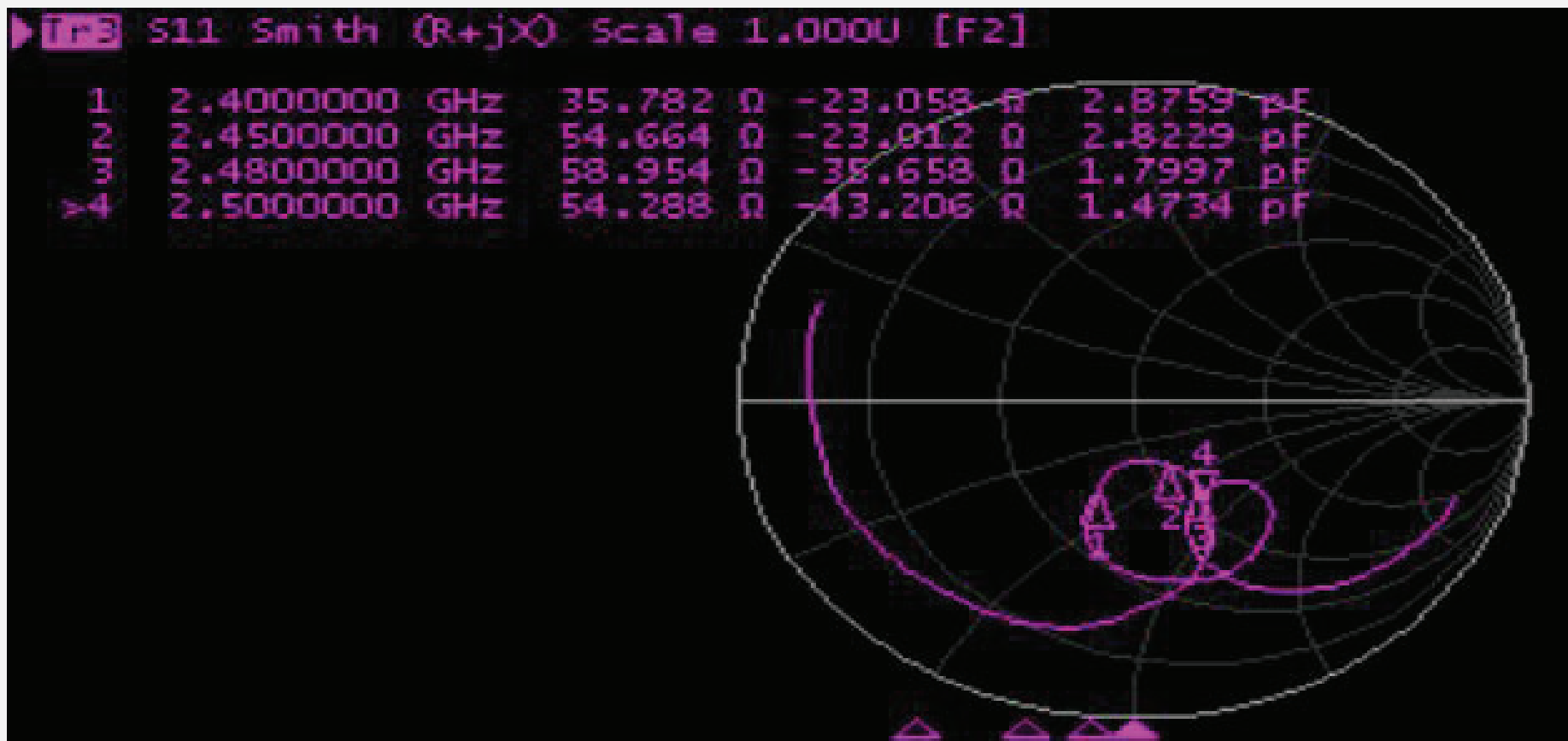
3.1 S11 Parameter-Log Mag



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-10.31	-13.18	-9.87	-8.29

3.Test Result

3.1 S11 Parameter-Smith



Frequency (MHz)	2400	2450	2480	2500
Smi th(Ω)	35.78	54.66	58.95	54.28

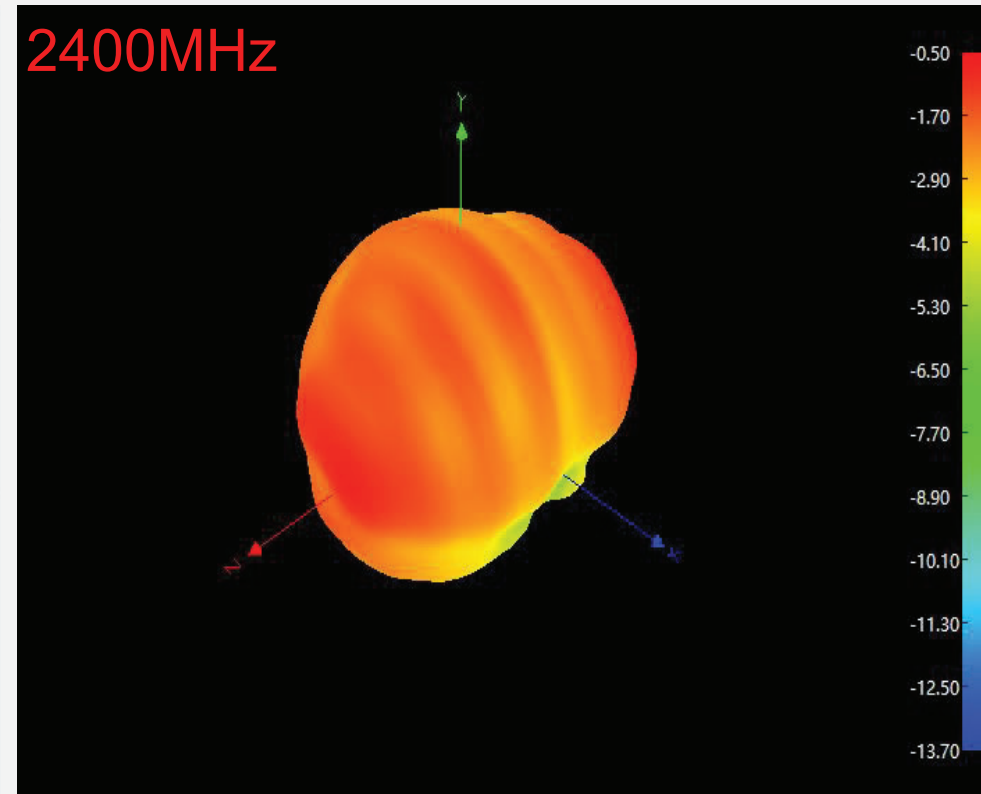
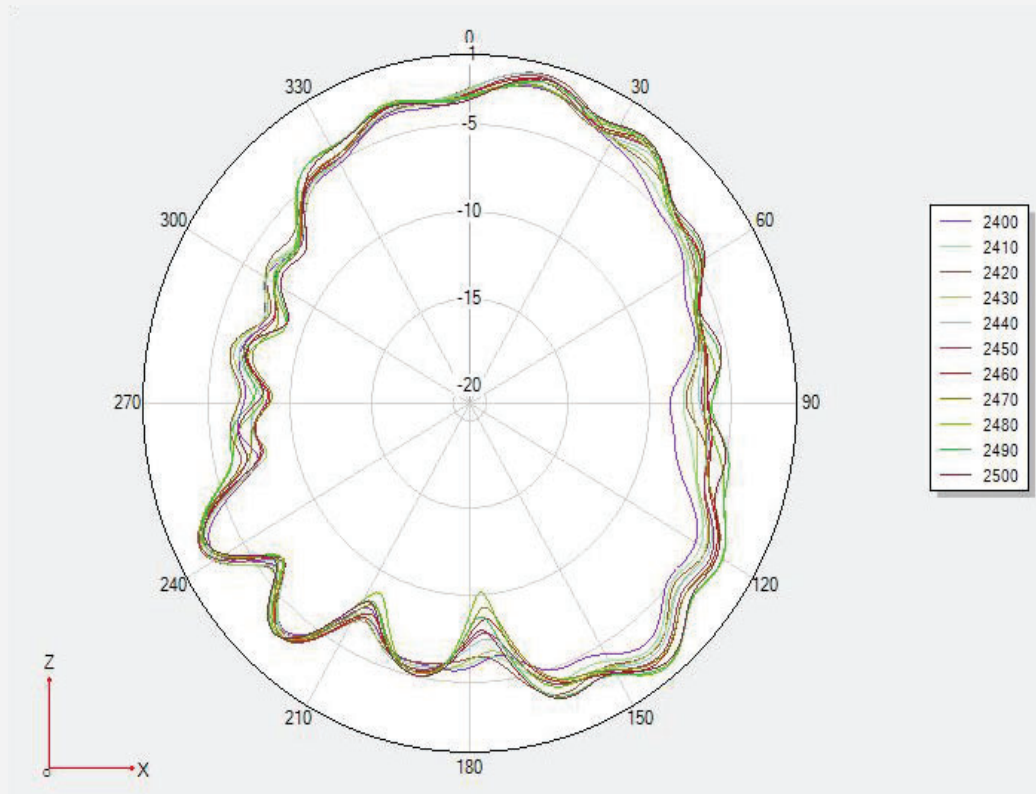
3.Test Result

3.2 Gain & Efficiency——**ANT**

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	24.24	-0.50
2410	24.41	-0.22
2420	25.96	-0.03
2430	25.04	0.02
2440	26.83	-0.22
2450	27.81	-0.11
2460	27.32	0.12
2470	26.89	-0.22
2480	26.81	0.15
2490	25.91	0.05
2500	24.51	0.08

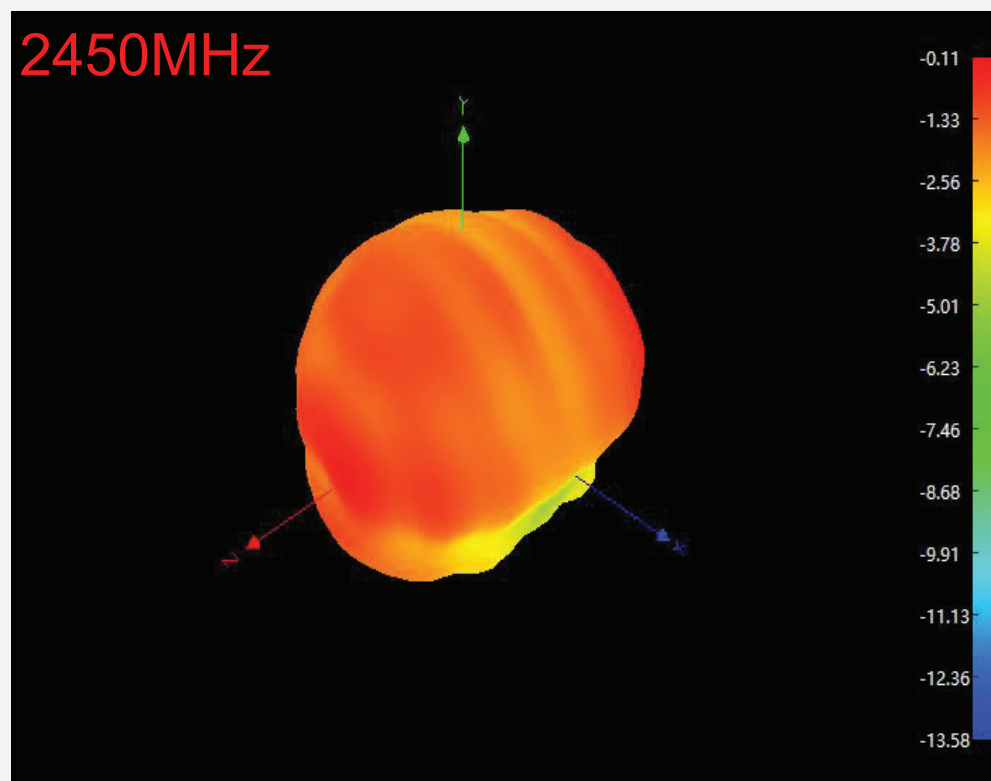
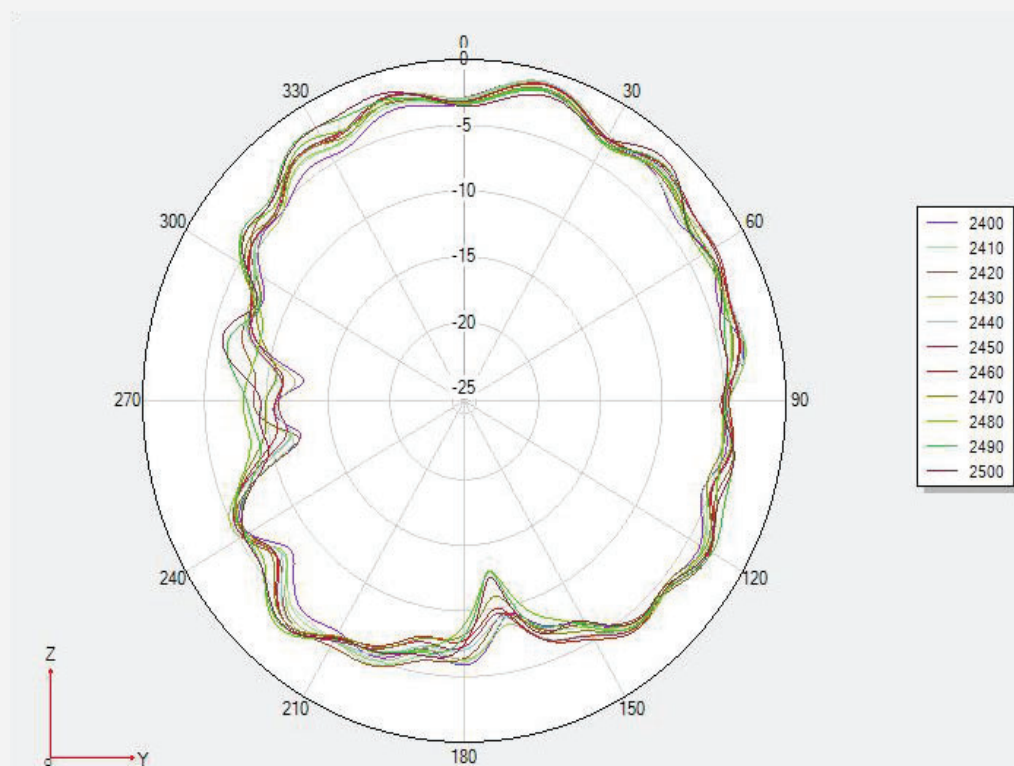
3. Test Result

3.3 2D Pattern—BT ANT



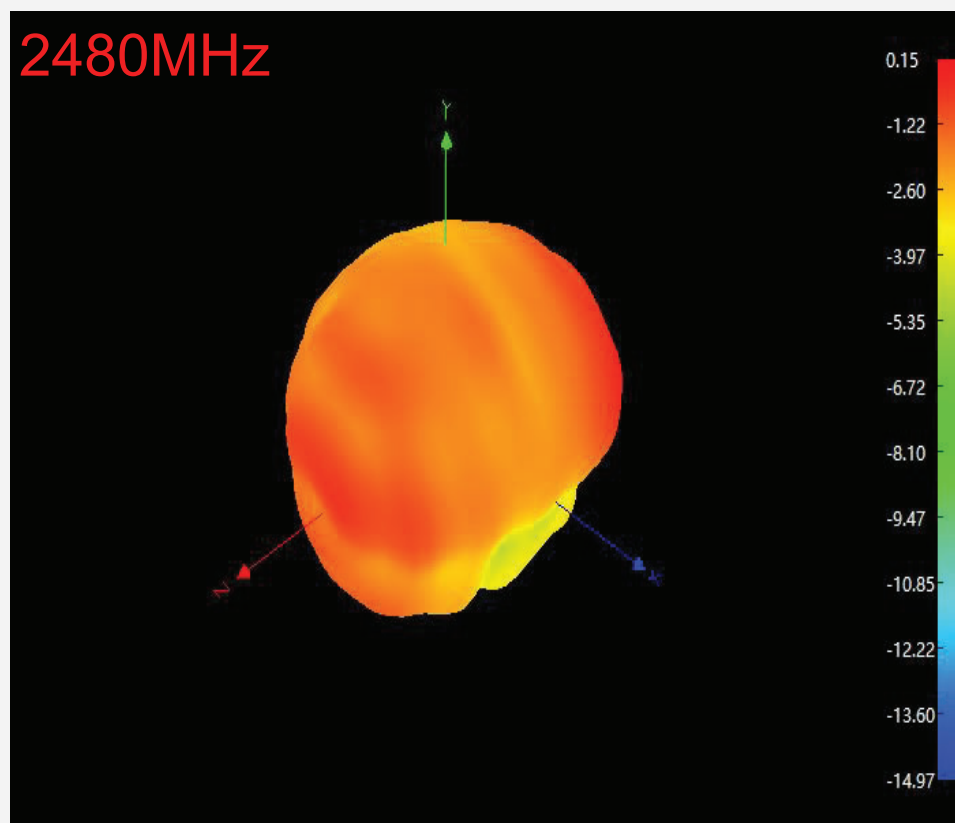
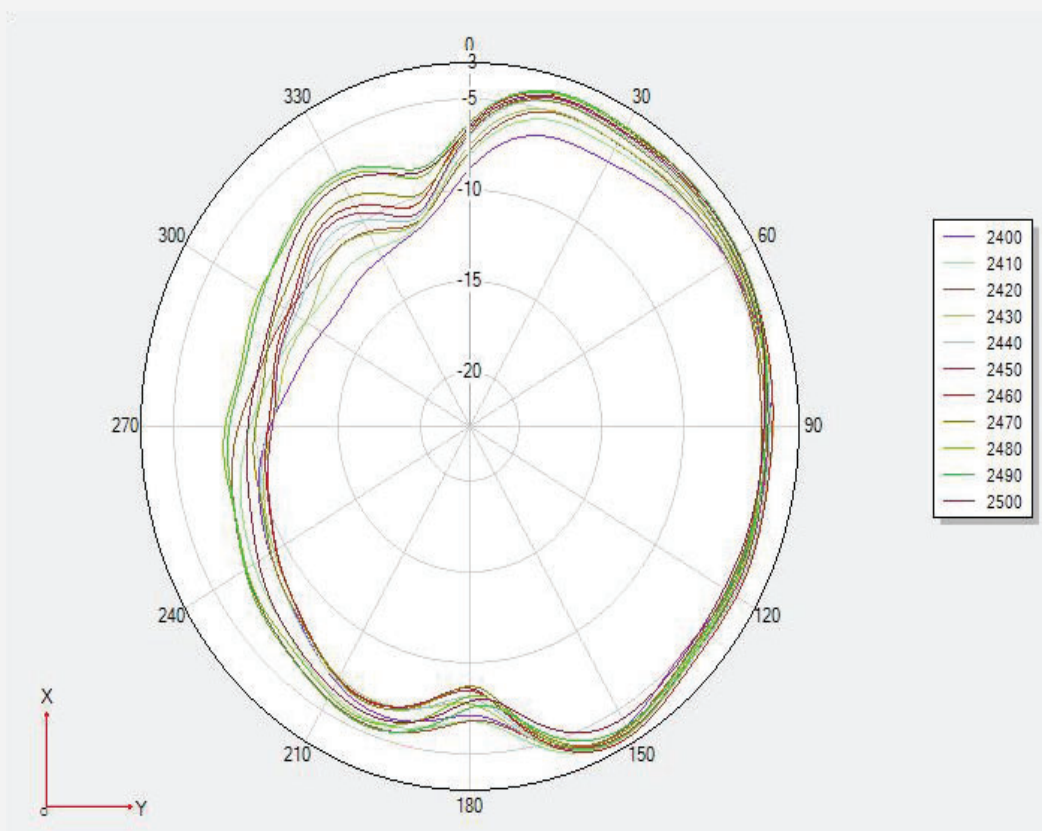
3. Test Result

3.3 2D Pattern—BT ANT



3. Test Result

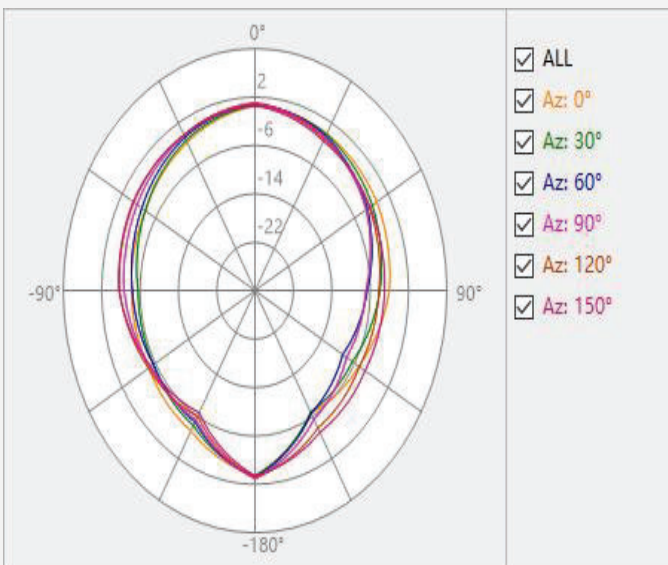
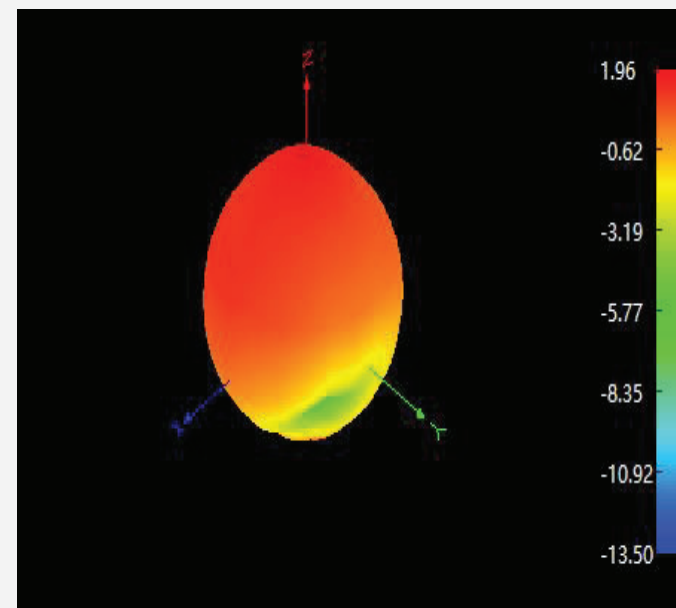
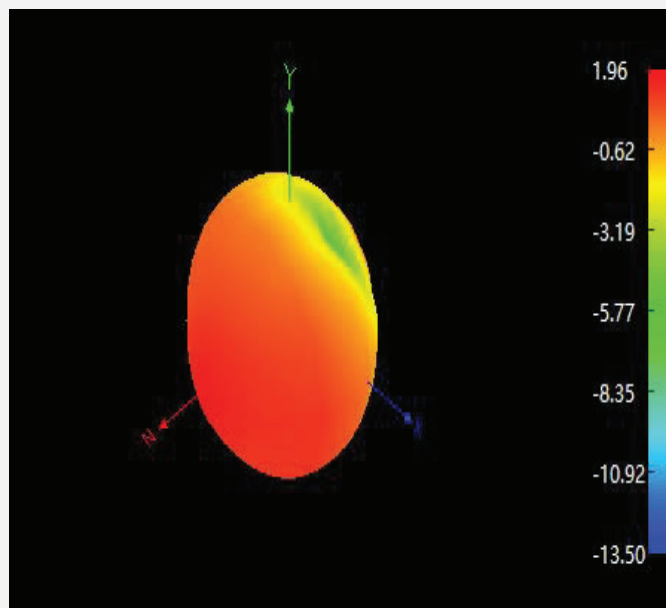
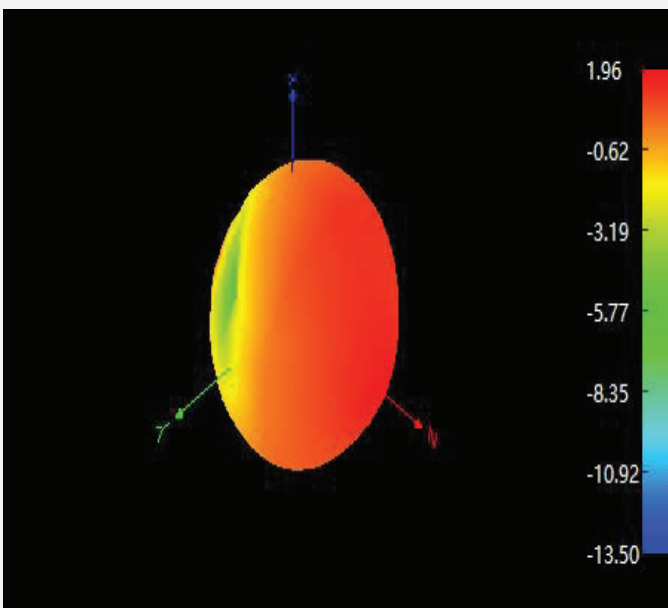
3.3 2D Pattern—BT ANT



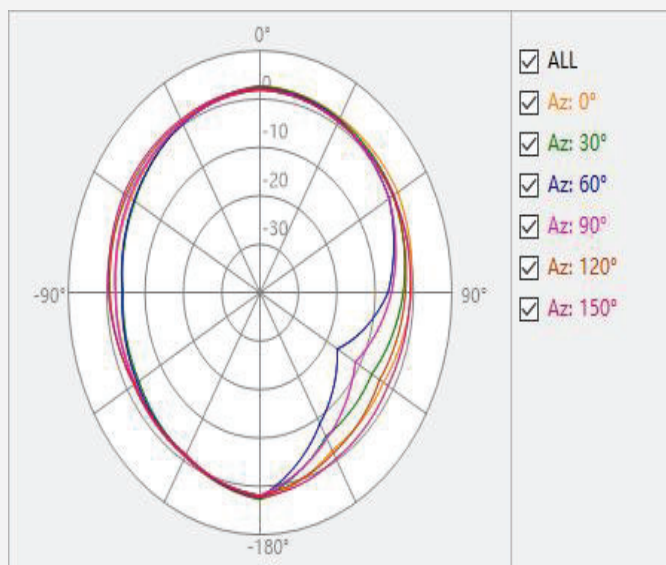
4.OTA Data

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	0.16	-80.46
	39	-0.94	-80.09
	78	-1.53	-80.53

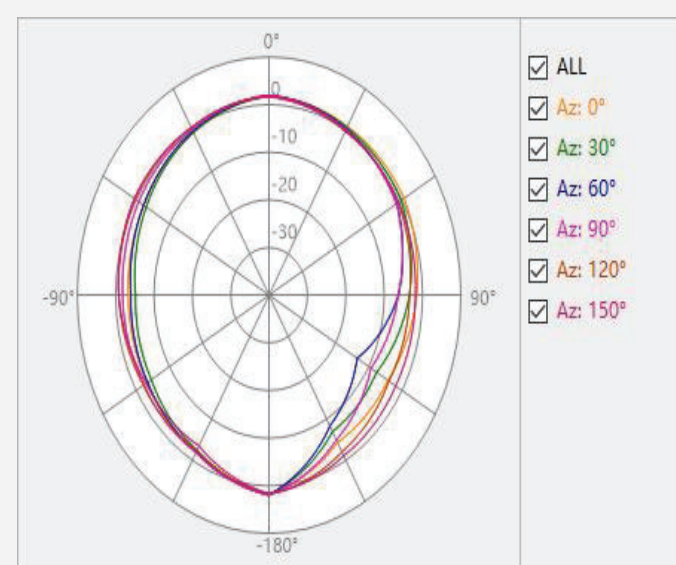
3.Test Result-TRP



2400

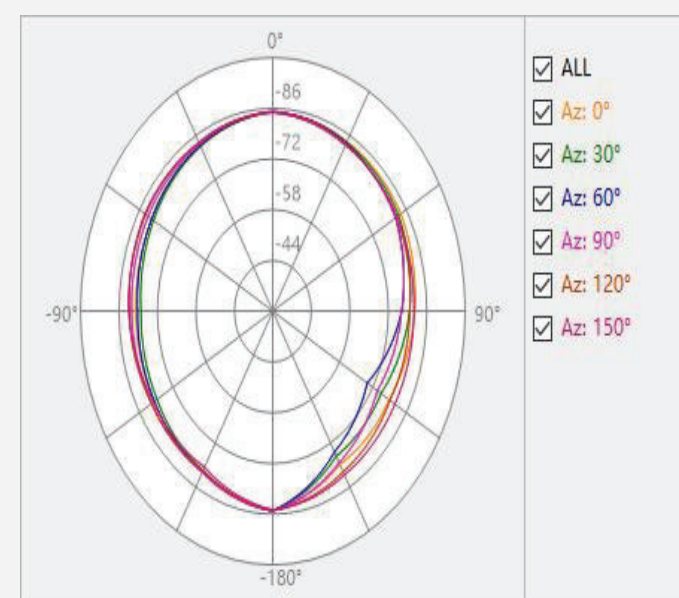
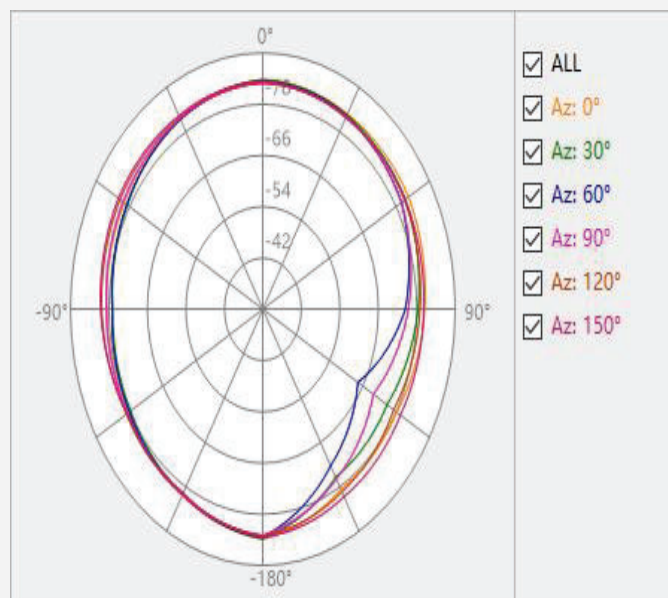
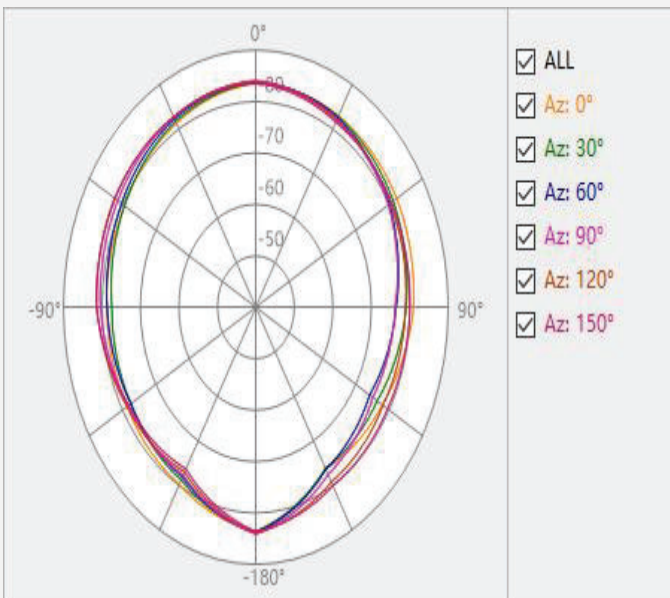
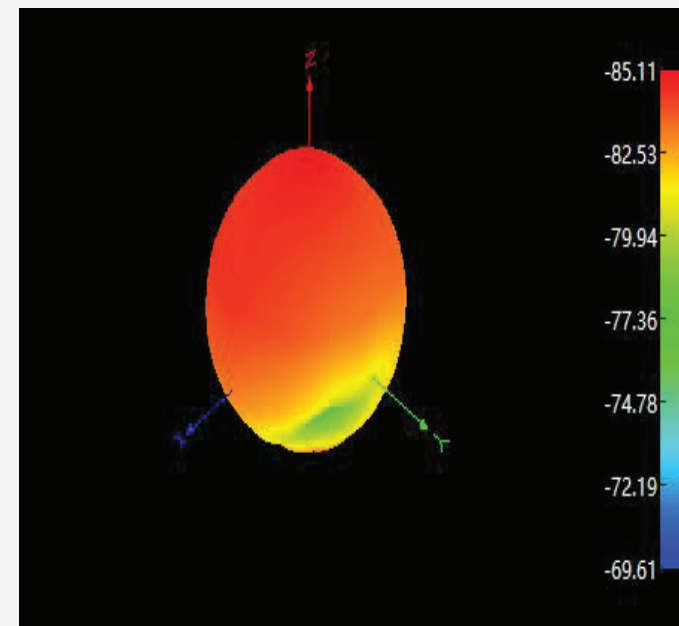
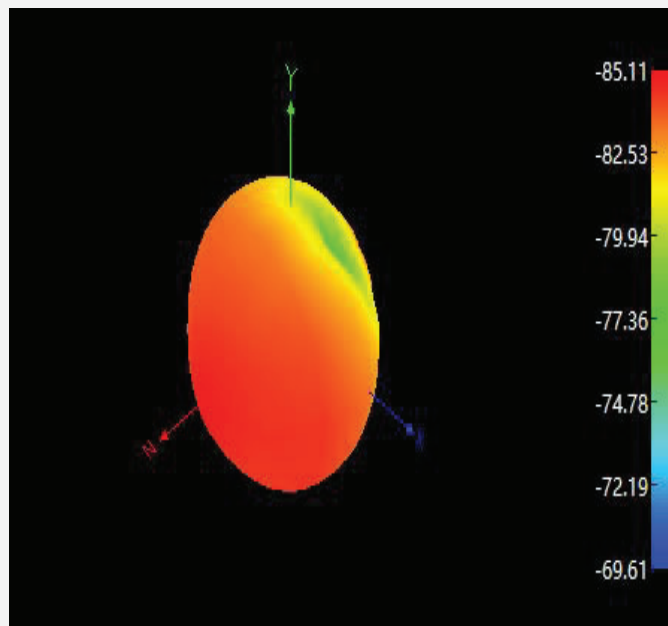
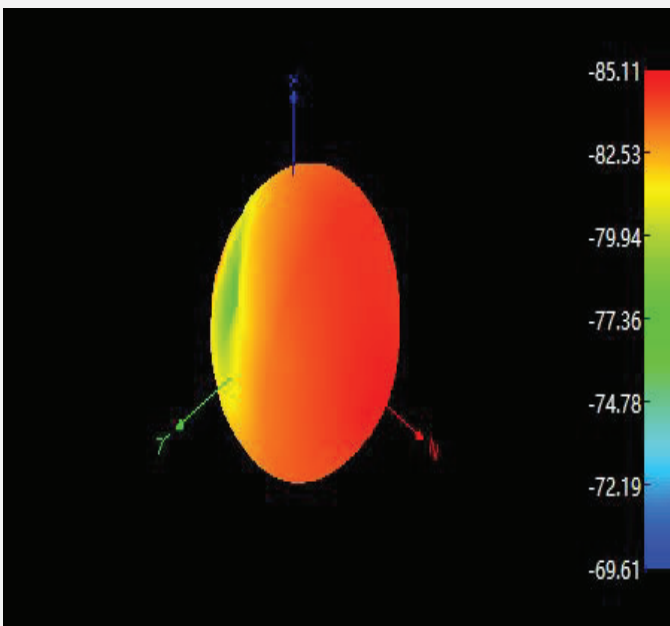


2450



2500

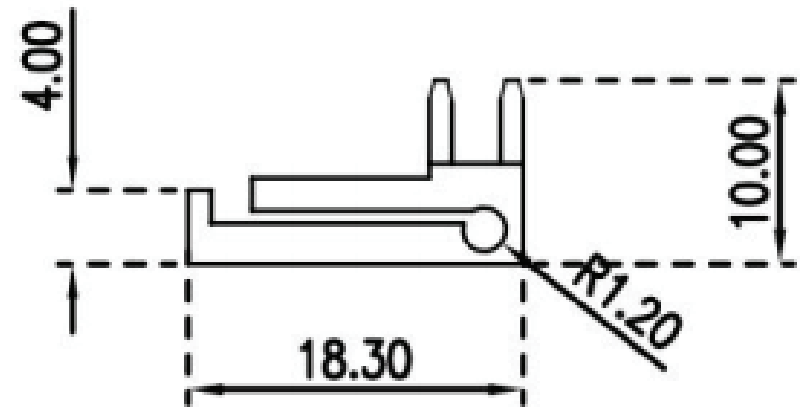
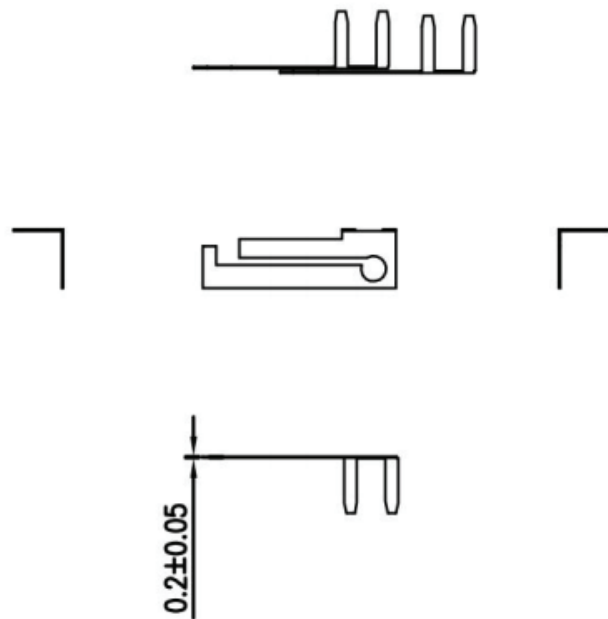
3.Test Result-TIS





Shenzhen Helixun Technology Co., Ltd

Size : mm





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Thank you!

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