



Antenna Test Report

Customer	Jialide
Project	017
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2024. 6. 9



Purpose

This report is to measure the performance of antenna for **017** The antenna operating frequency at 2400-2500MHz, All test data are showed as below.

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2.Product Overview & Dimension R

2.1Product Overview & Dimension

2.2*Test Result* VSWR&Log Mag&Smith(Ω)

3.Test Result

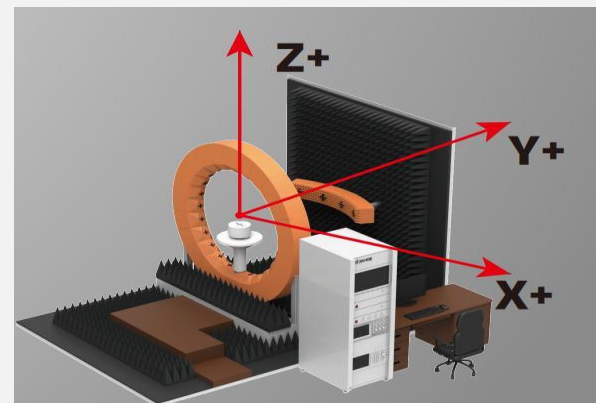
3.1 Gain & Efficiency

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1. Test System

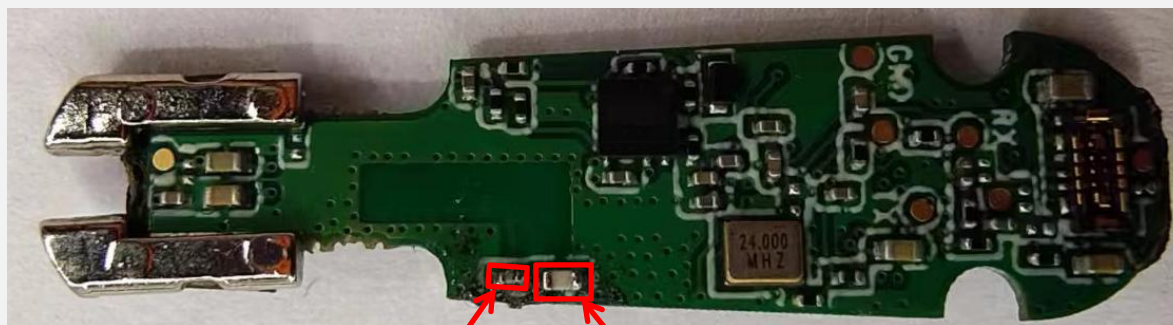
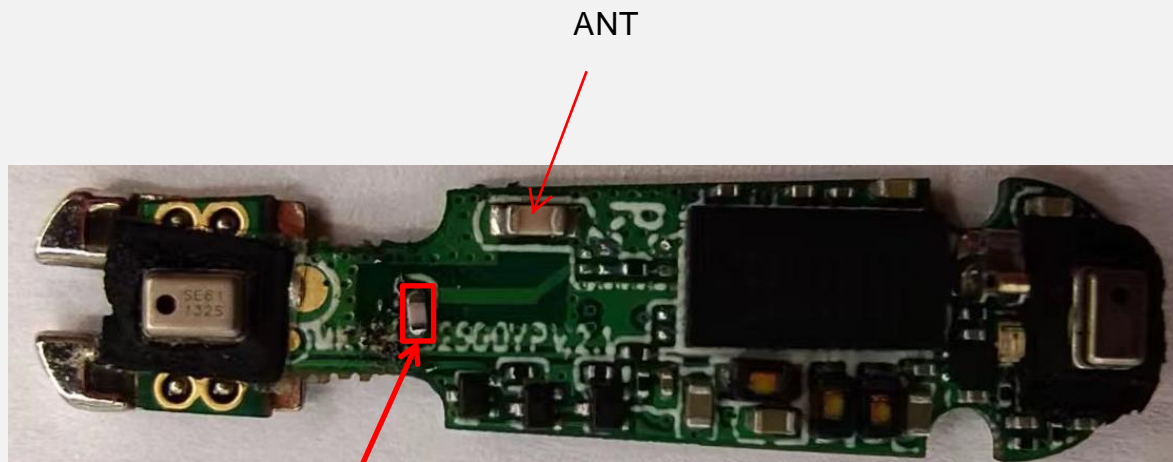
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



HELIX

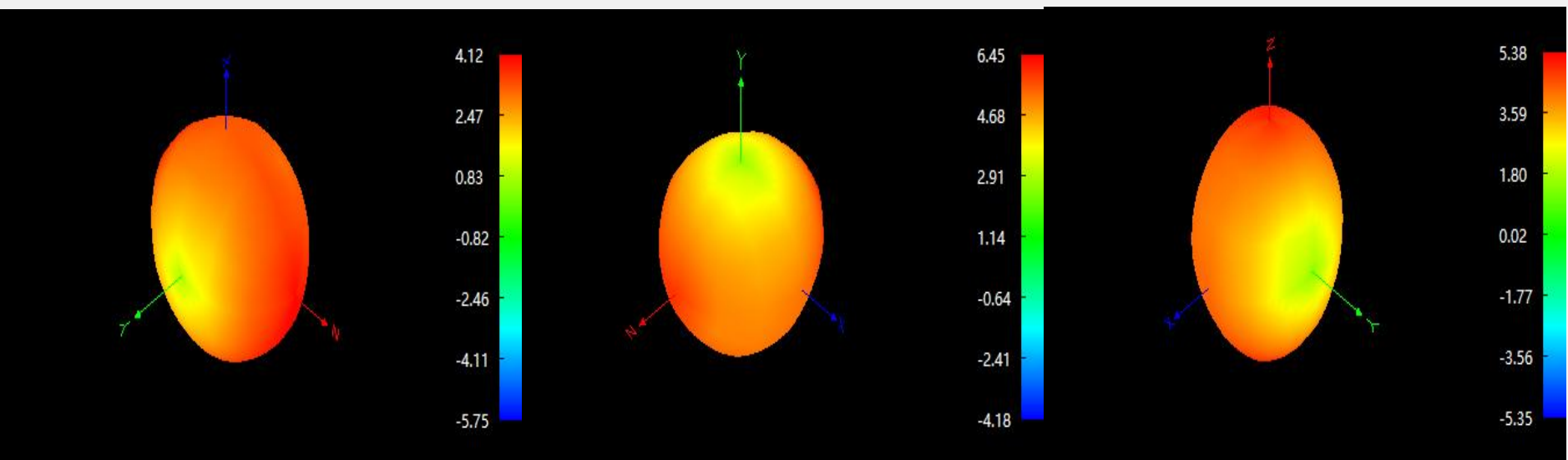
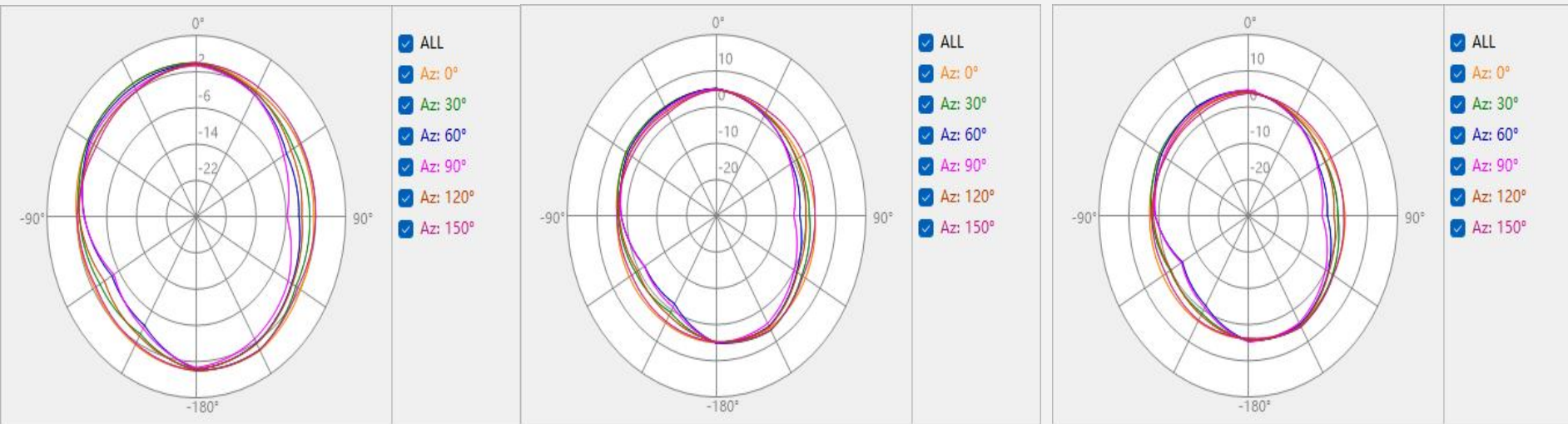
2.1 Product Overview & Dimension





3. Test

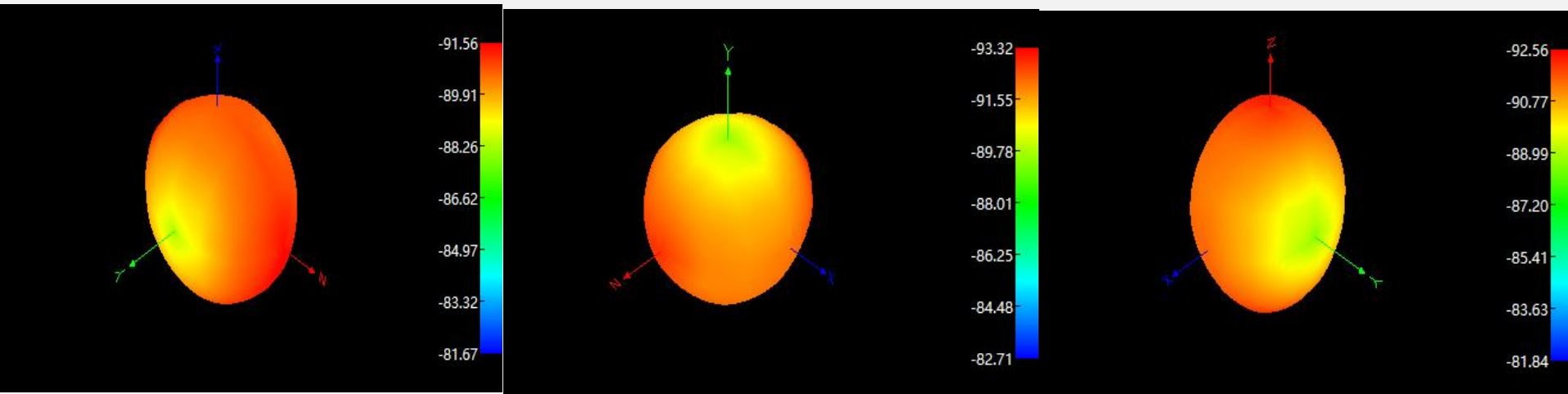
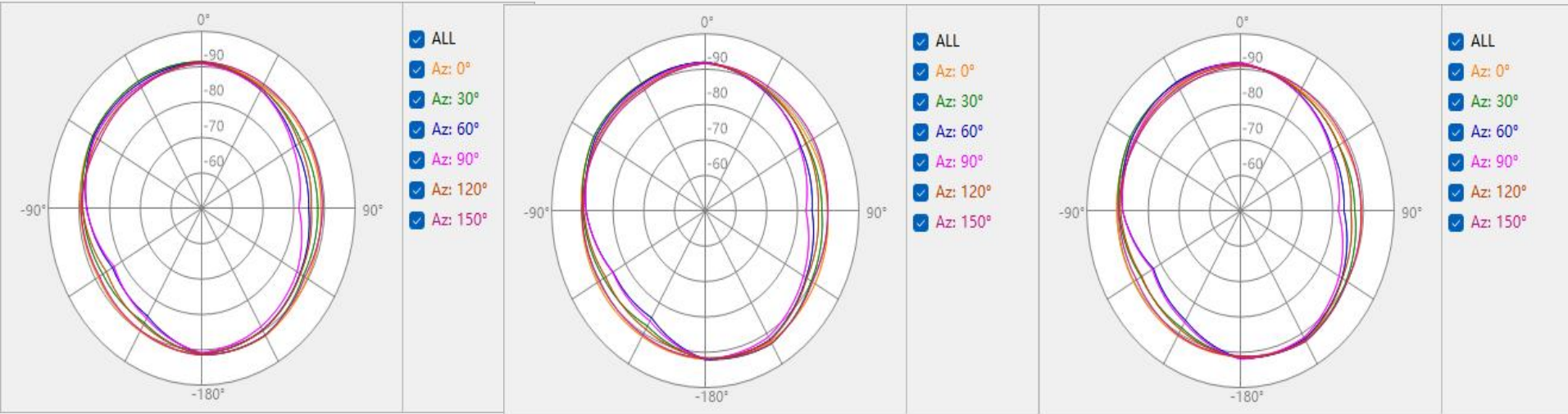
Result TRP



3. Test

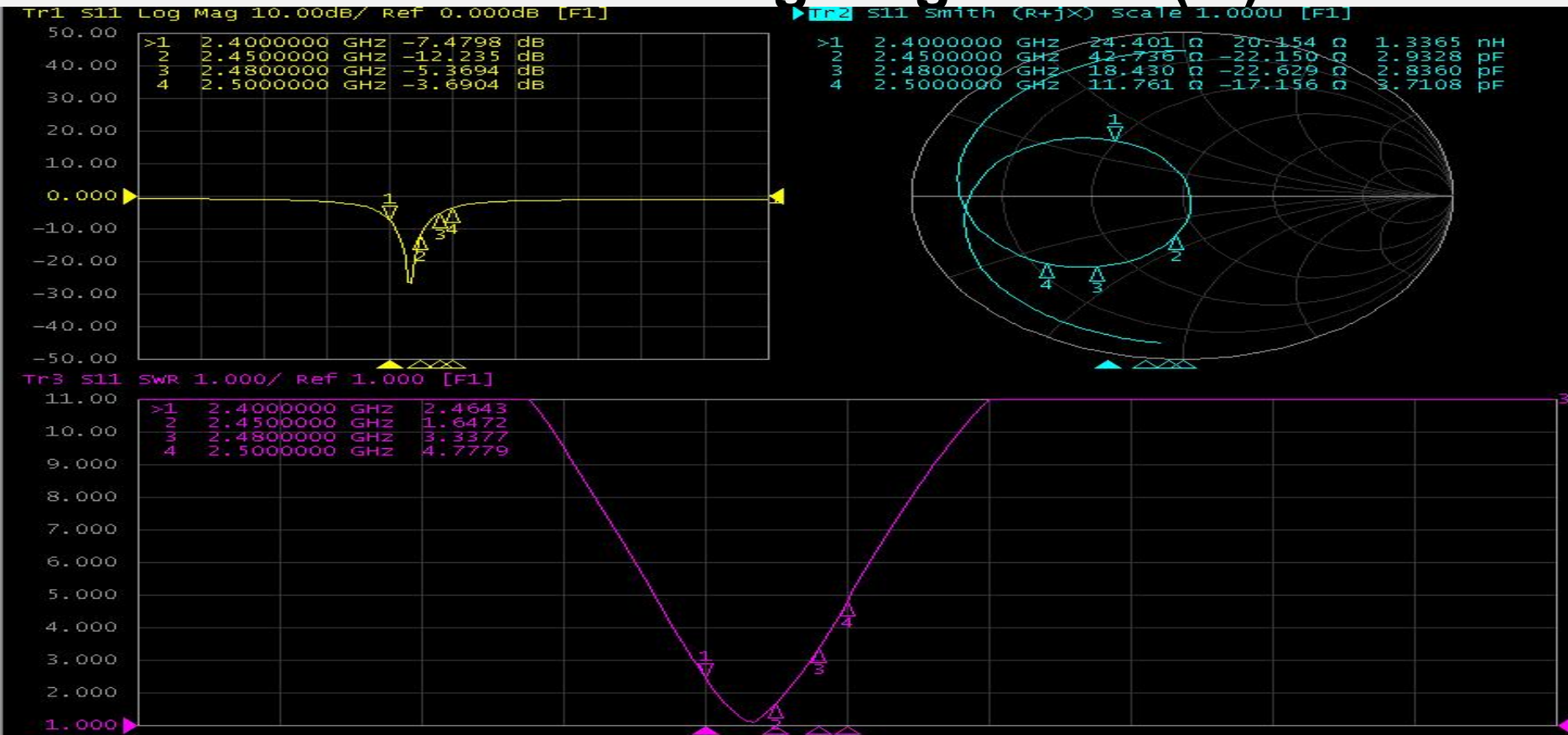
Result

TIS





Test Result VSWR&Log Mag&Smith(Ω)



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.47	-12.23	-5.36	-3.69
Smith(Ω)	24.40	42.73	18.43	11.76
VSWR	2.46	1.64	3.33	4.77

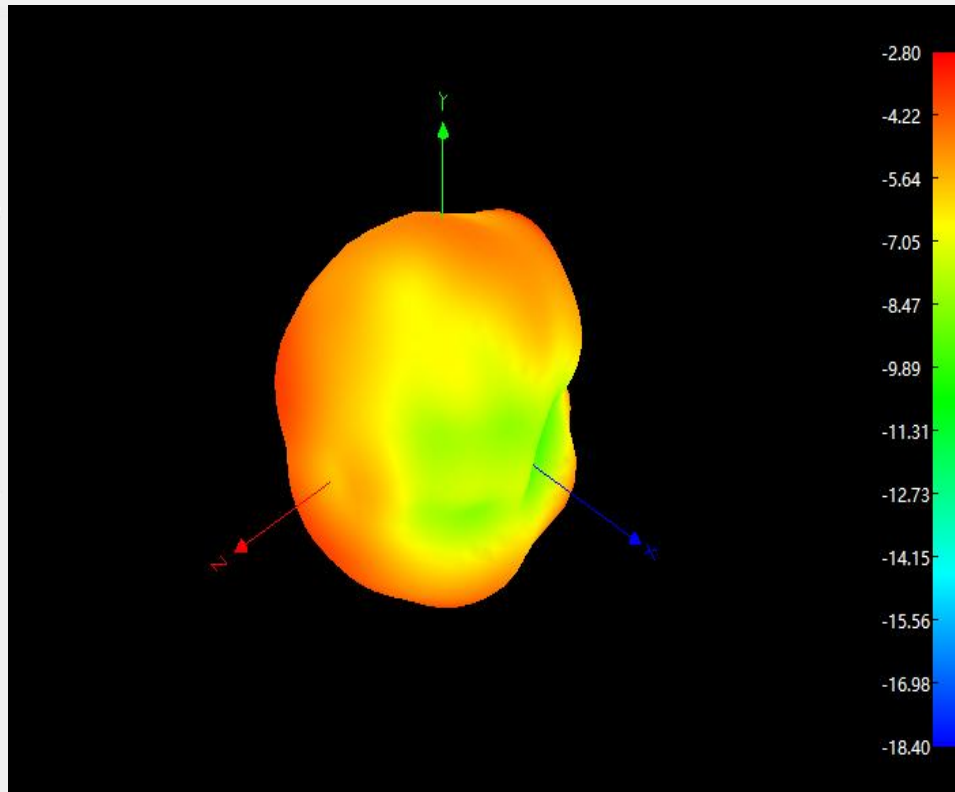
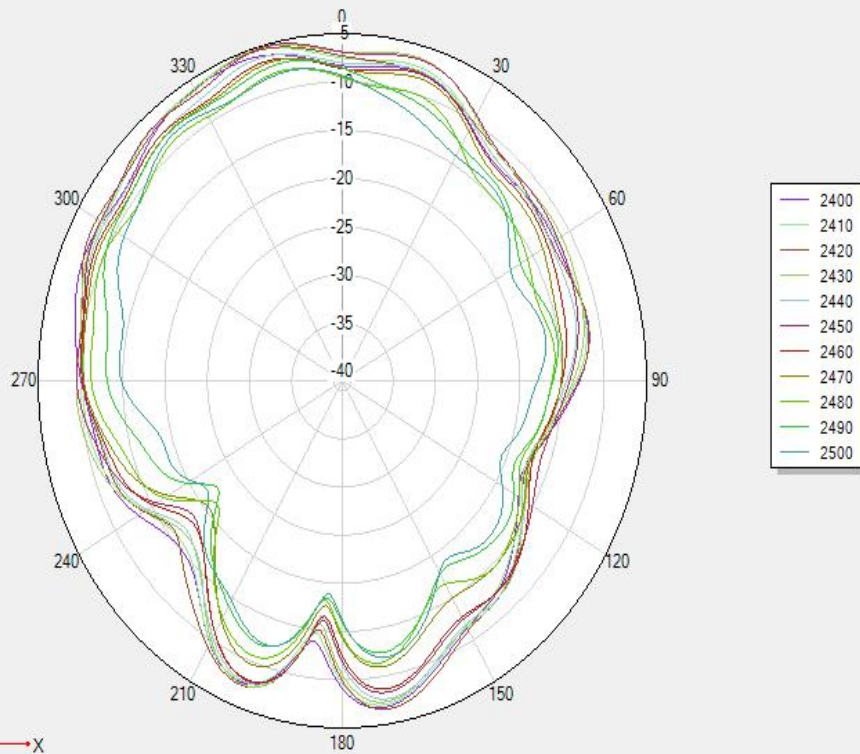


3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	22.99	-2.82
2410	21.74	-3.04
2420	23.01	-2.53
2430	22.62	-2.97
2440	24.03	-2.81
2450	26.77	-2.87
2460	27.56	-2.79
2470	24.74	-4.39
2480	23.38	-4.75
2490	25.29	-5.82
2500	21.26	-6.01

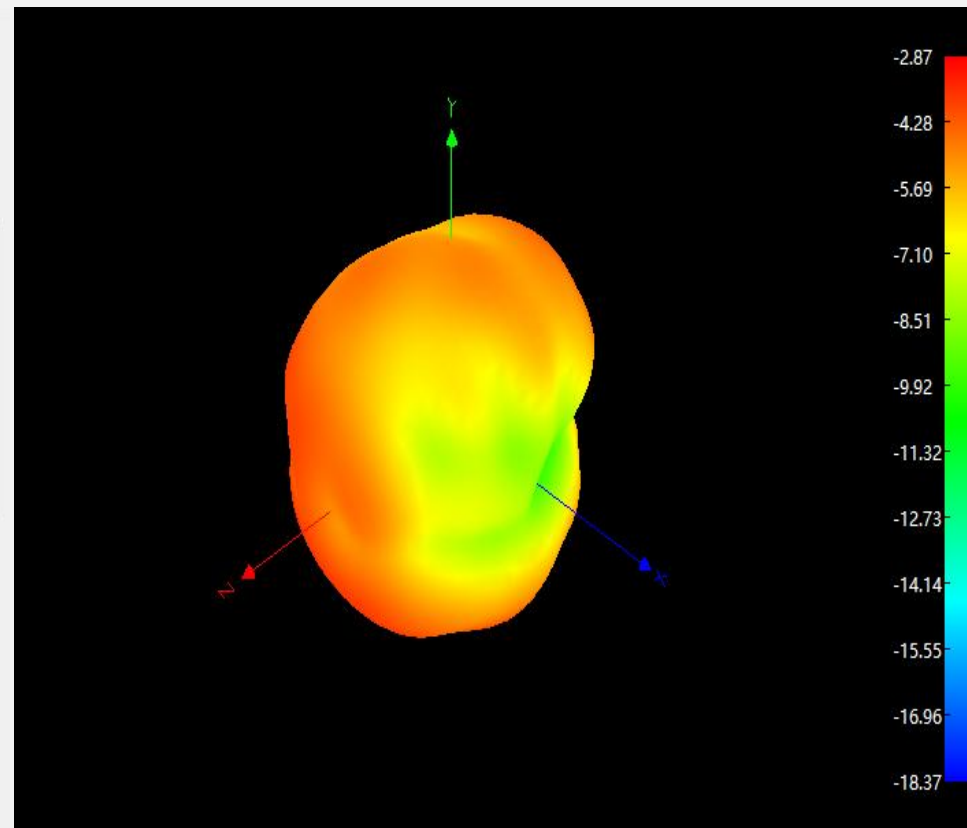
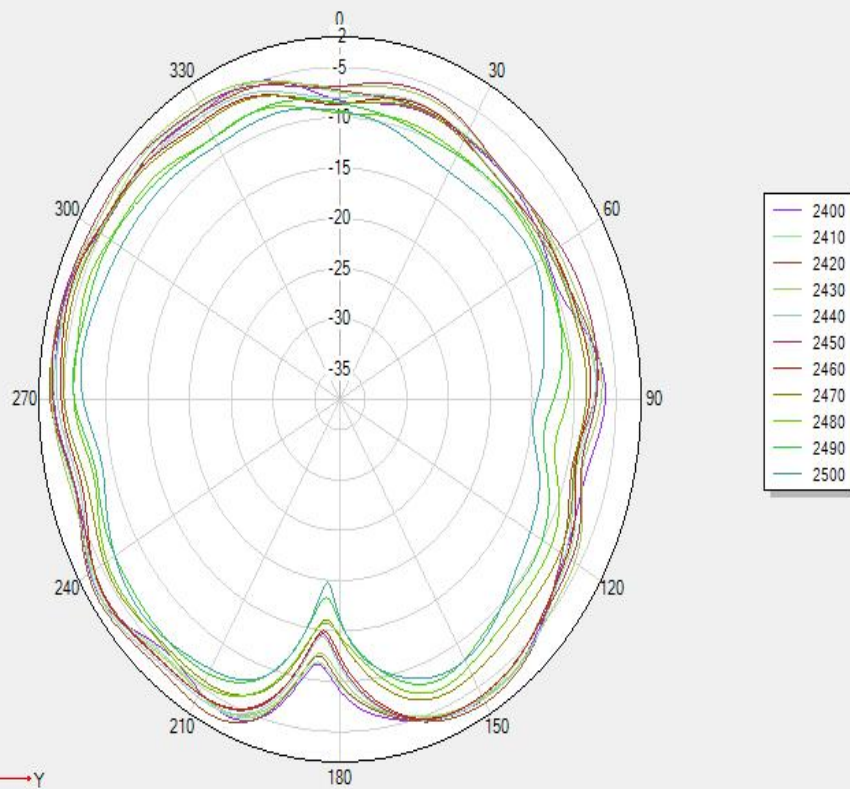
3. Test Result

3.2 2D Pattern — BT ANT



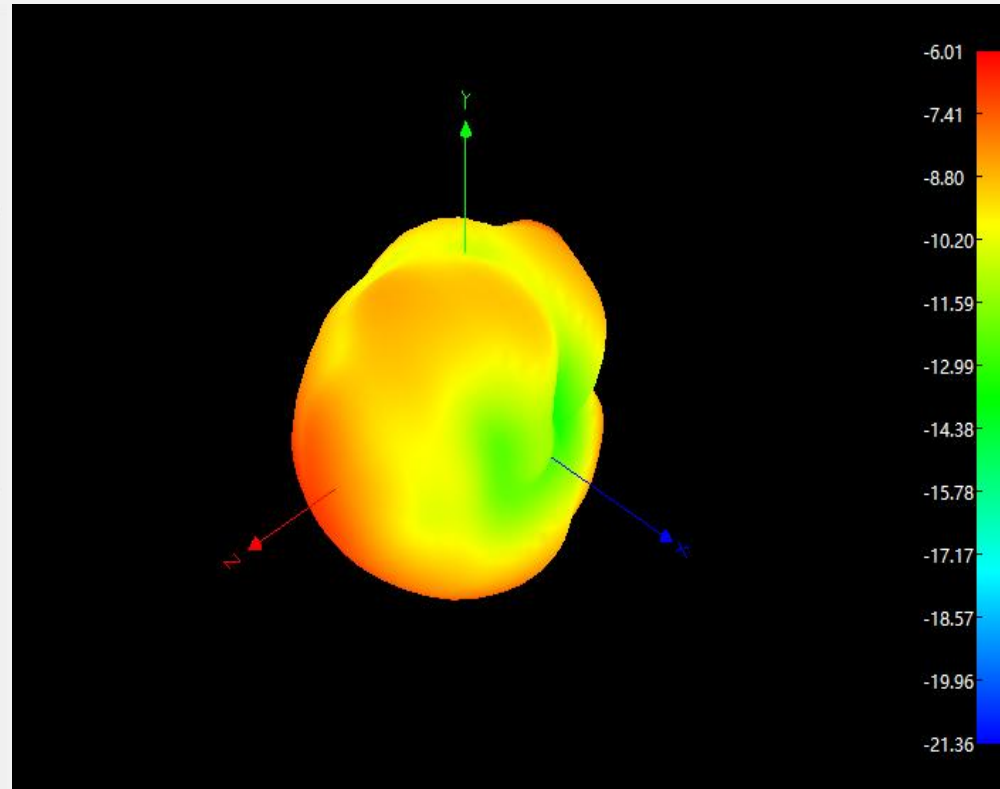
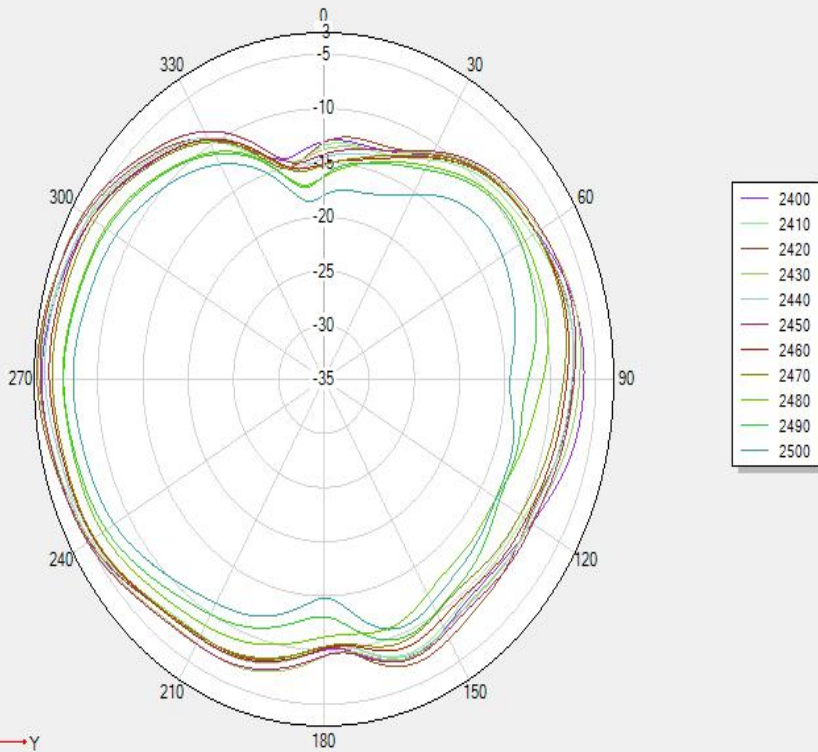
3. Test Result

3.2 2D Pattern — BT ANT



3. Test Result

3.2 2D Pattern — BT ANT



4.OTA Data

Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	R	0	3.74	-90.76
		39	3.58	-90.61
		78	3.58	-90.13

HELIXUN

Thank you!

Ant manufacture: SHENZHEN HEYIXUN TECHNOLOGY Co., LTD

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