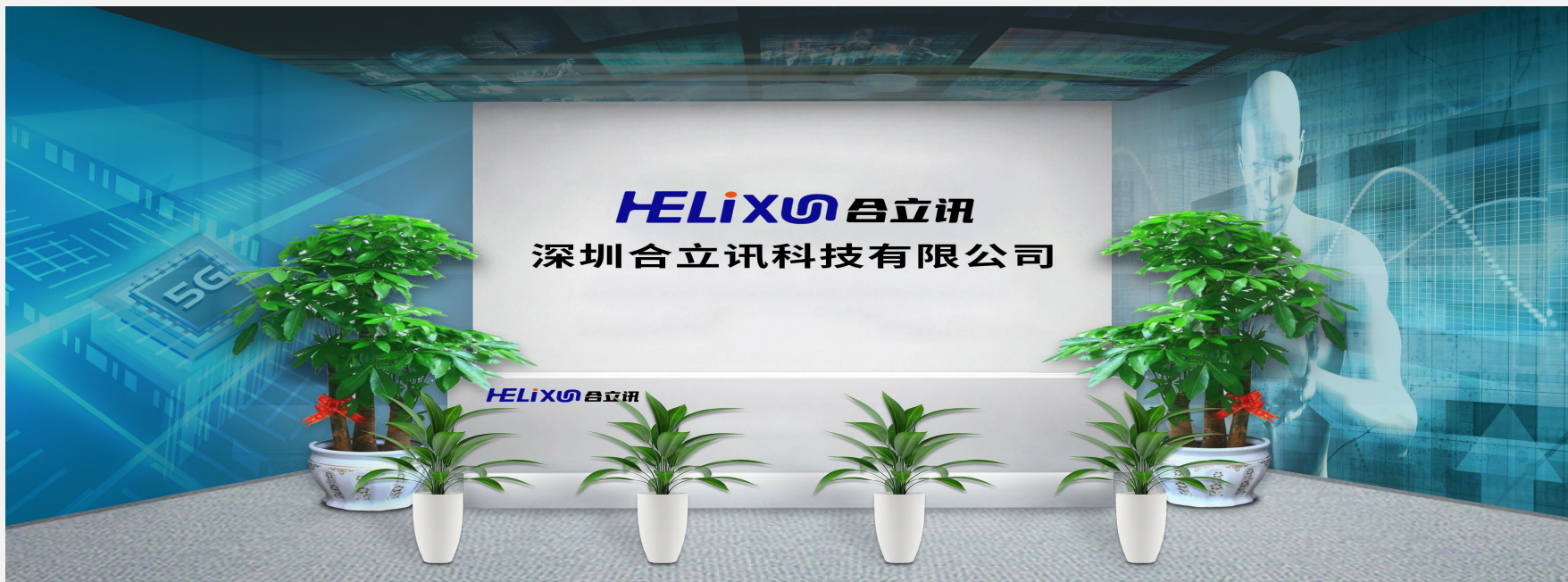


Antenna Test Report



Customer	Bowie
Project	MIXX Ultra ANC
Antenna Revision	A0
Prepared by	15993920520
Checked by	17279710721
Date	2024. 03. 15

synopsis

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

Antenna type: FPCB

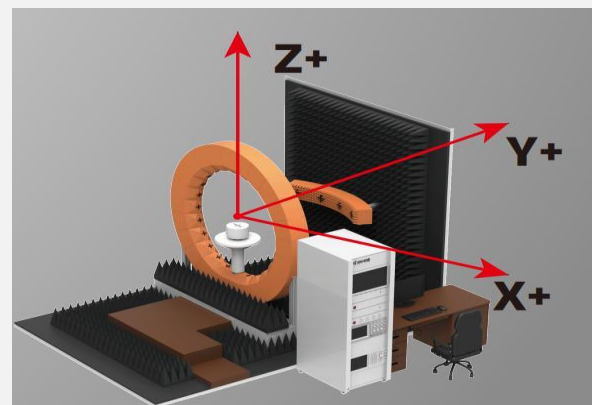
Address: No.1905, Building 2, Jiufang Square, Tiezai Road, Gongle Community, Xixiang Street, Baoan District, Shenzhen, Guangdong Province

Content

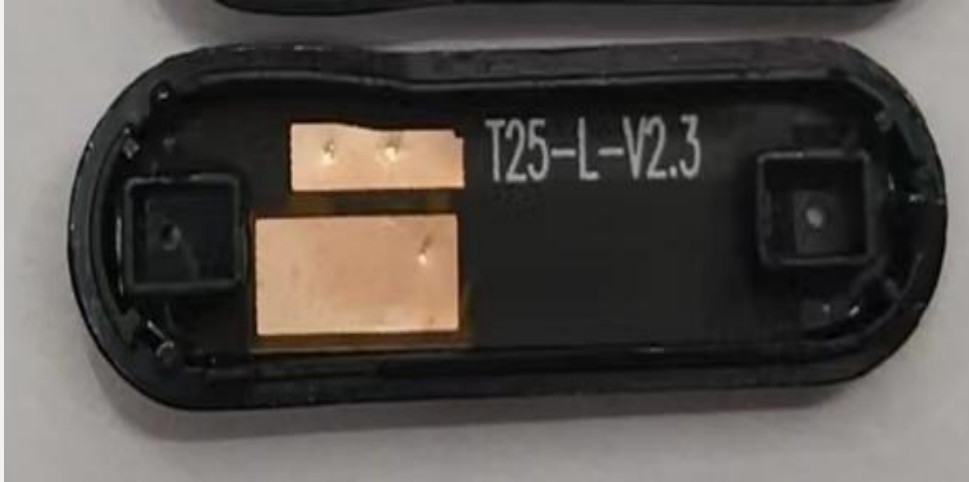
1. Test system
2. Product Overview & Dimension
3. Test Result
4. OTA Data

1. Test System

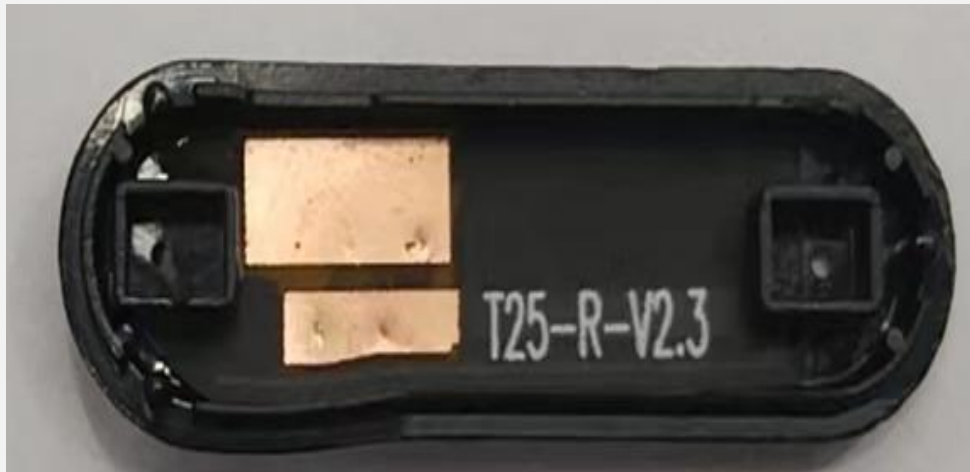
Sequence Number	Test Item	equipment
S parameter	VSWR	Agilent 5071C & Agilent 5071B
OTA Test	TRP&TIS	Agilent 8960 & CMW500 STIMO
Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C



2. Product Overview & Dimension **L&R**



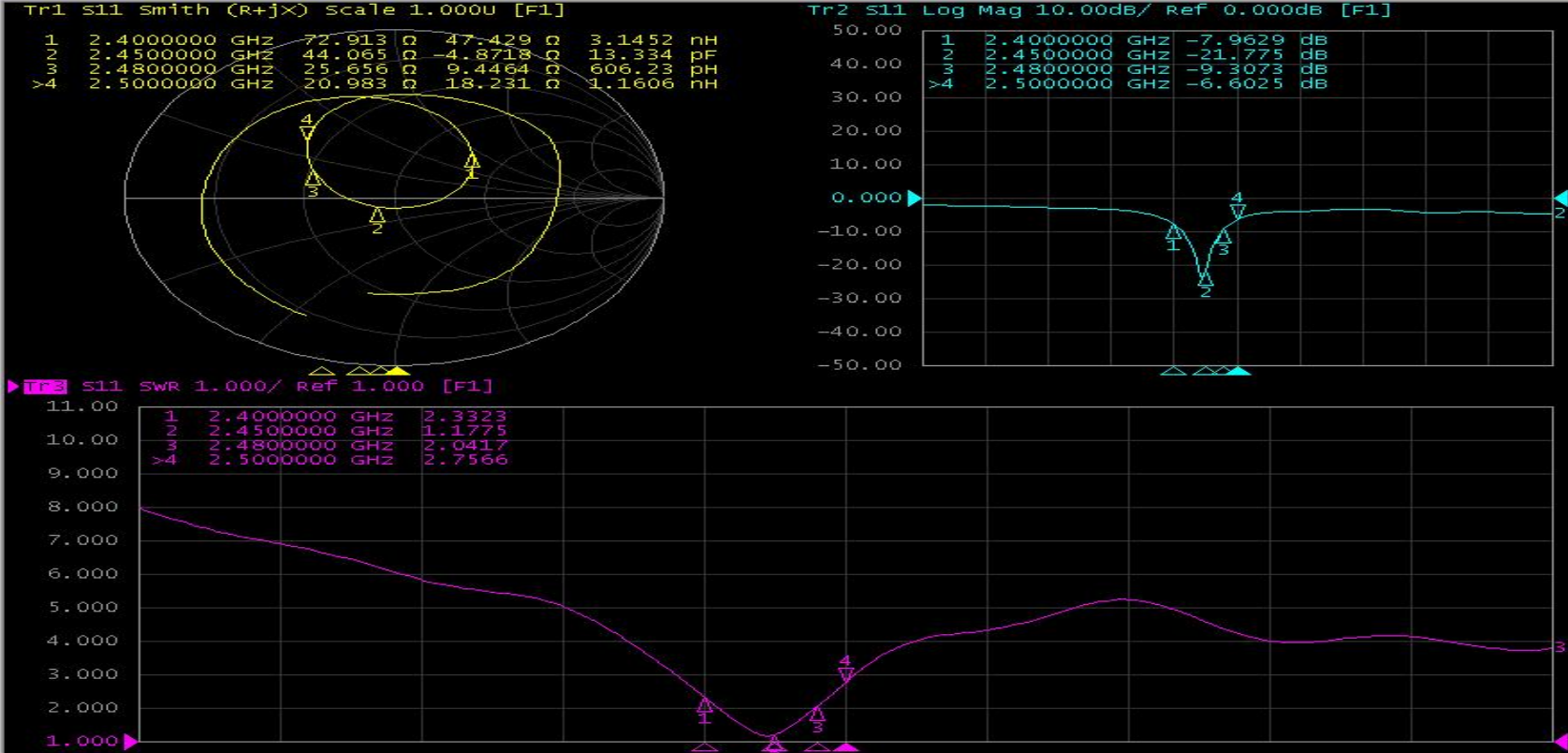
Length * Width: 18mm * 8mm



Length * Width: 18mm * 8mm

3. Test Result VSWR&Log Mag&Smith(Ω)

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



Frequency (MHz)	2400	2450	2480	2500
Log Mag	-7.96	-21.77	-9.30	-6.60
VSWR	2.33	1.17	2.04	2.75
Smith(Ω)	72.91	44.06	25.65	20.98

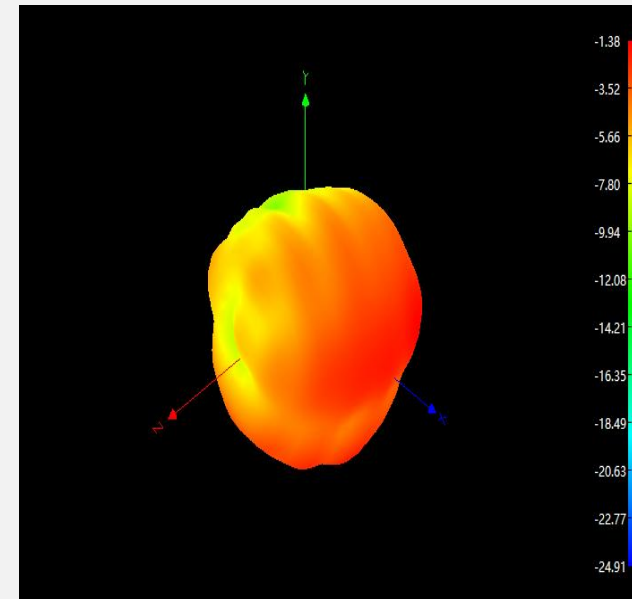
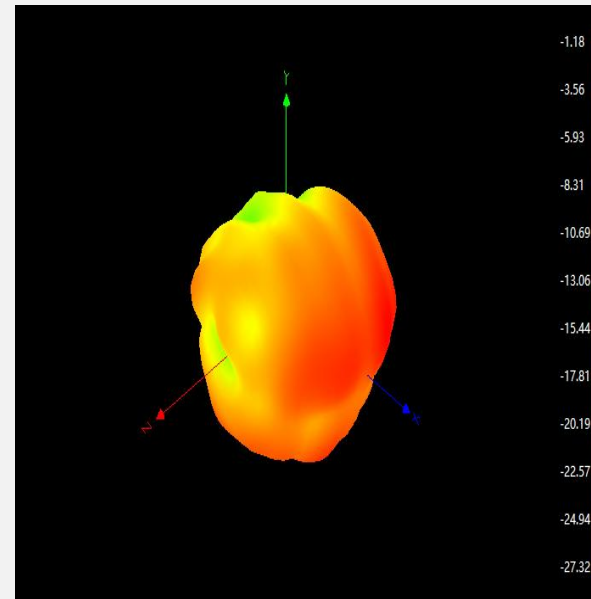
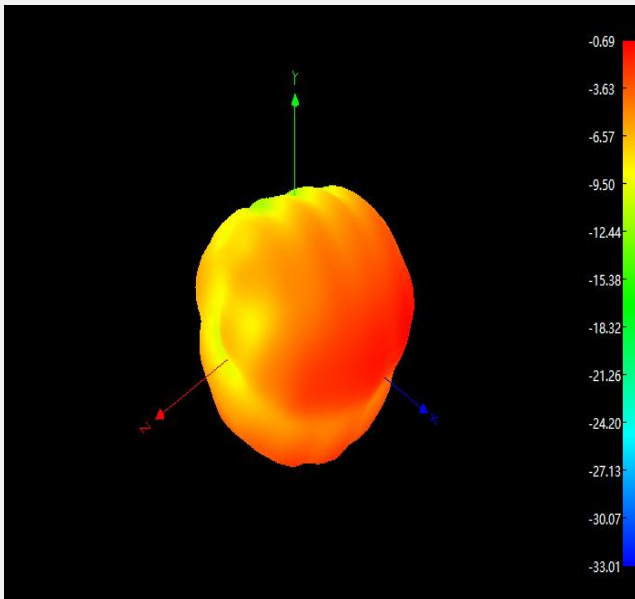
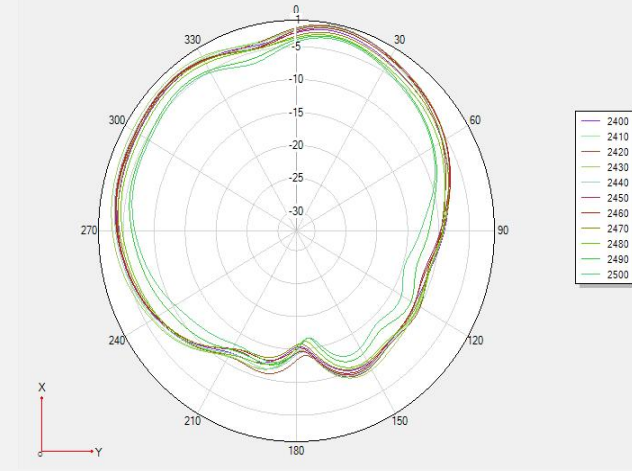
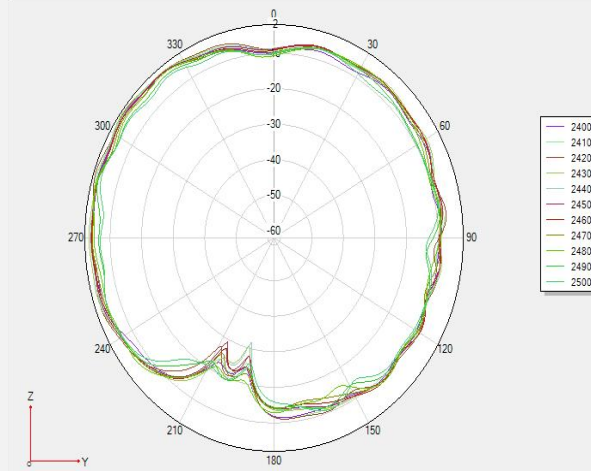
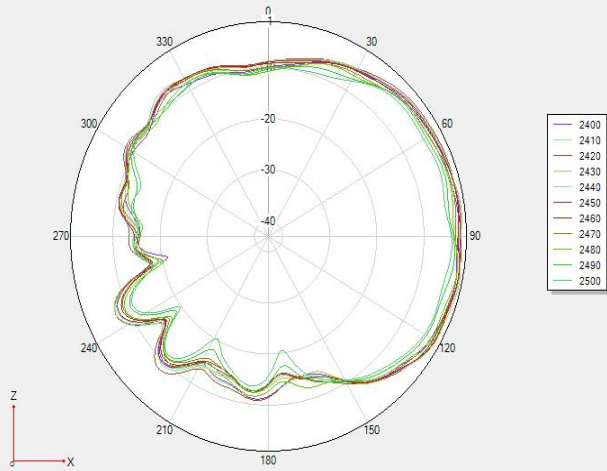
3. Test Result

Gain & Efficiency——ANT

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	20.63	-0.15
2410	20.71	-0.39
2420	21.46	-0.48
2430	22.96	-0.84
2440	22.59	-0.57
2450	23.97	0.41
2460	21.07	0.13
2470	22.89	-0.67
2480	21.59	-0.91
2490	21.57	-0.08
2500	20.14	0.05

3. Test Result

2D 3D Pattern — BT ANT

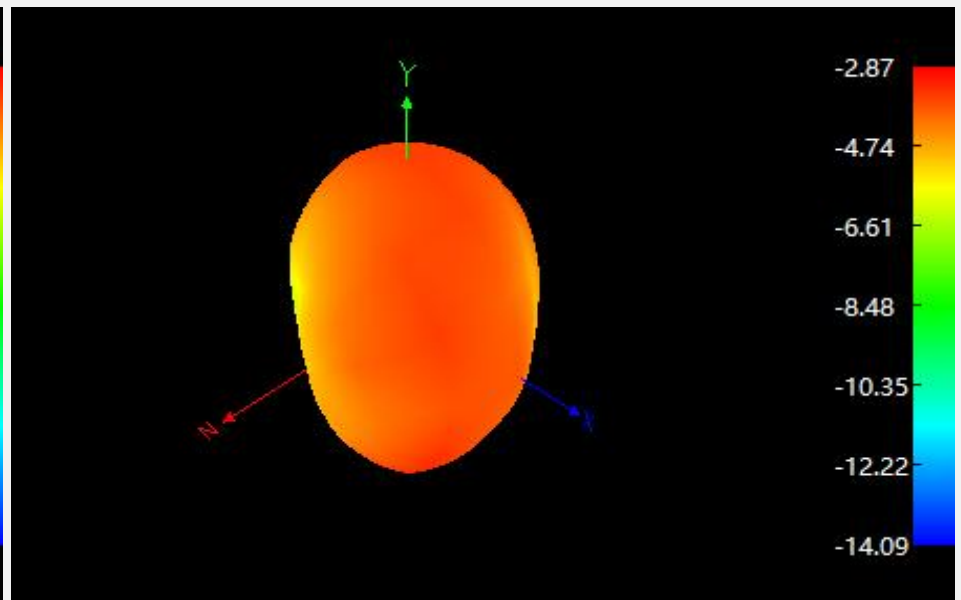
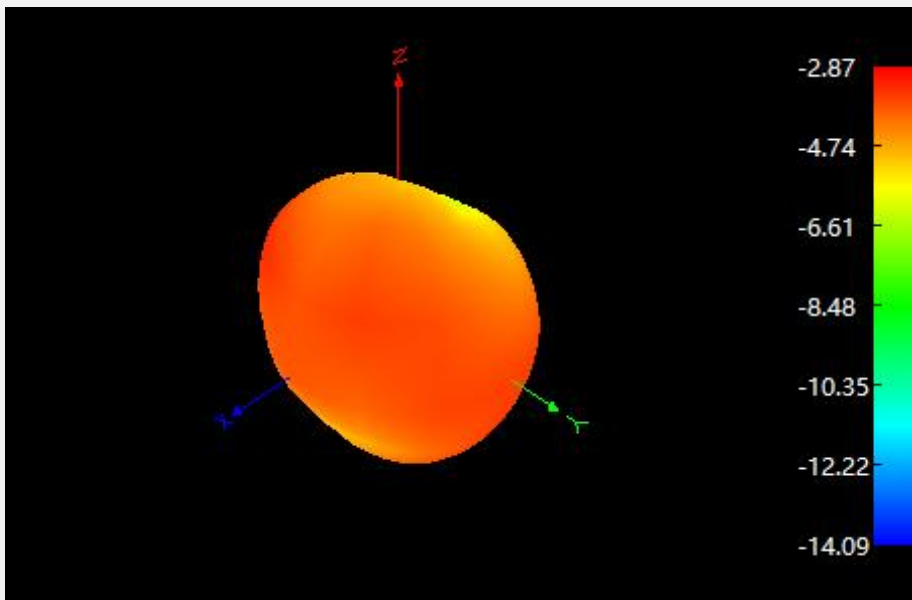
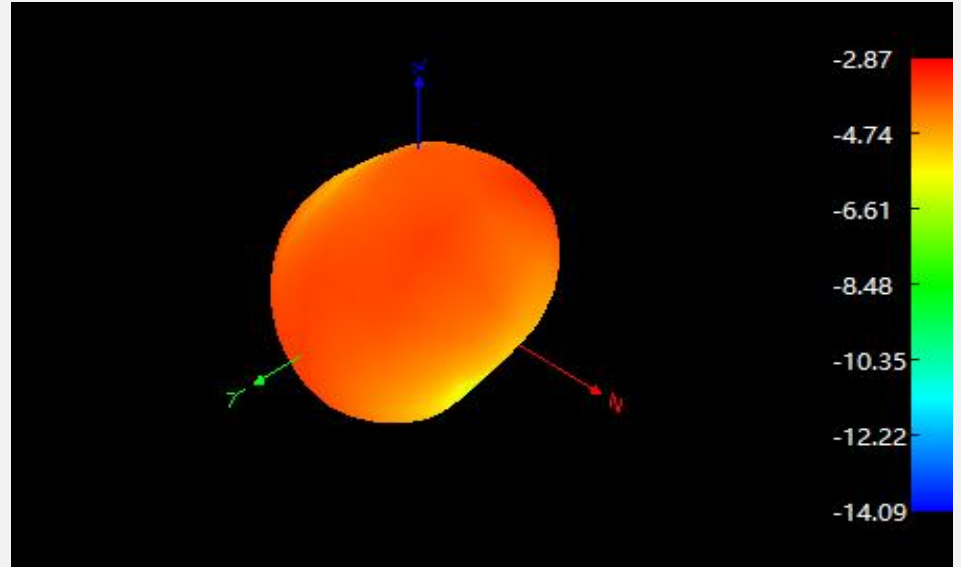


4.OTA Data

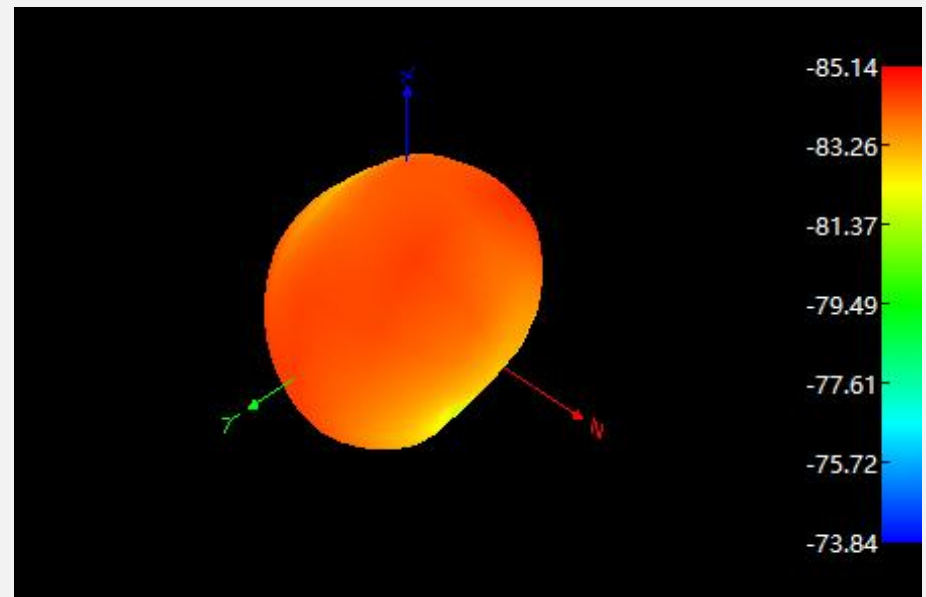
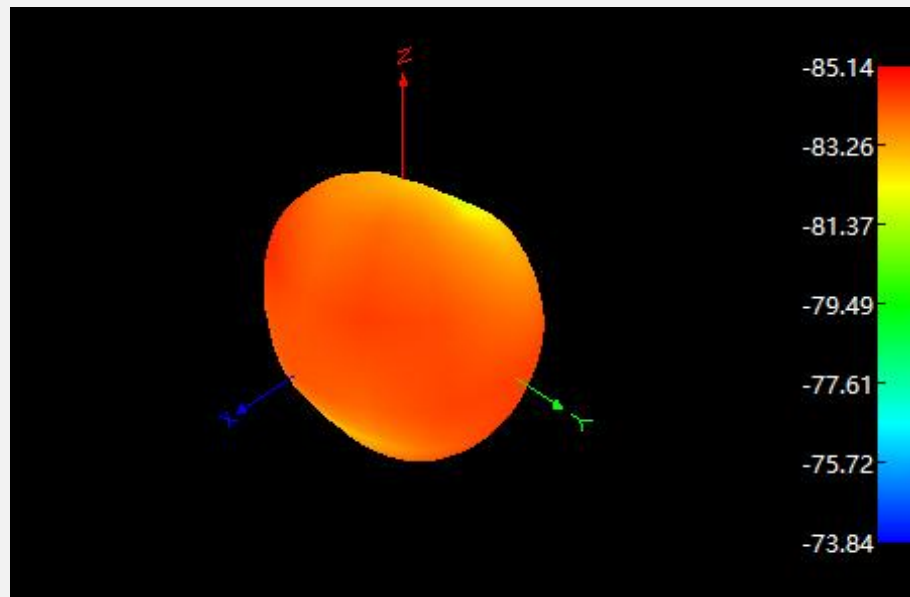
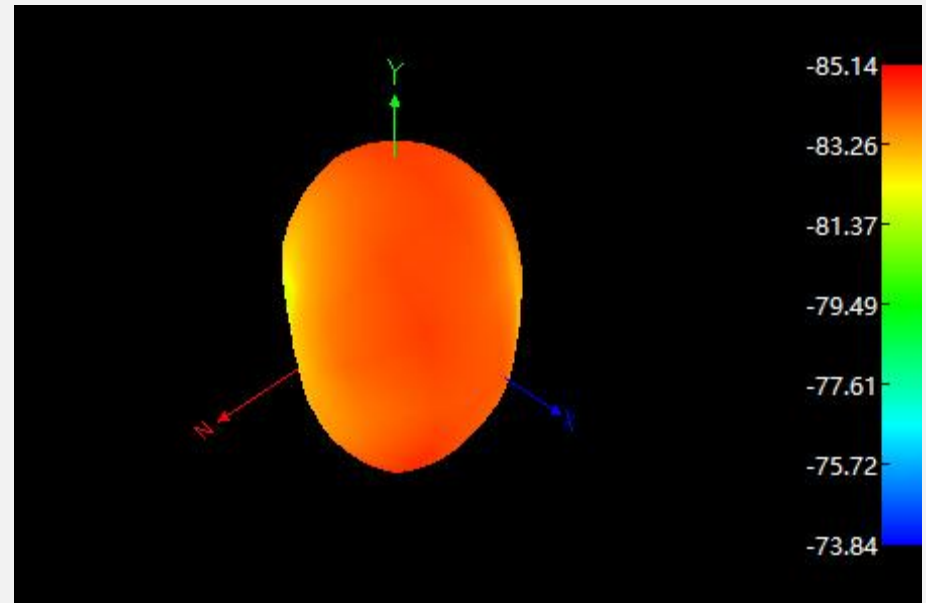
Test Equipment:	R&S CMW500			
Test Condition:	3D chamber			
Band		Channel	TRP(dBm)	TIS(dBm)
BT	L&R	0	-3.21	-83.55
		39	-2.51	-84.24
		78	-3.02	-83.61

3.Test

Result



3.Test Result



Thank you!