

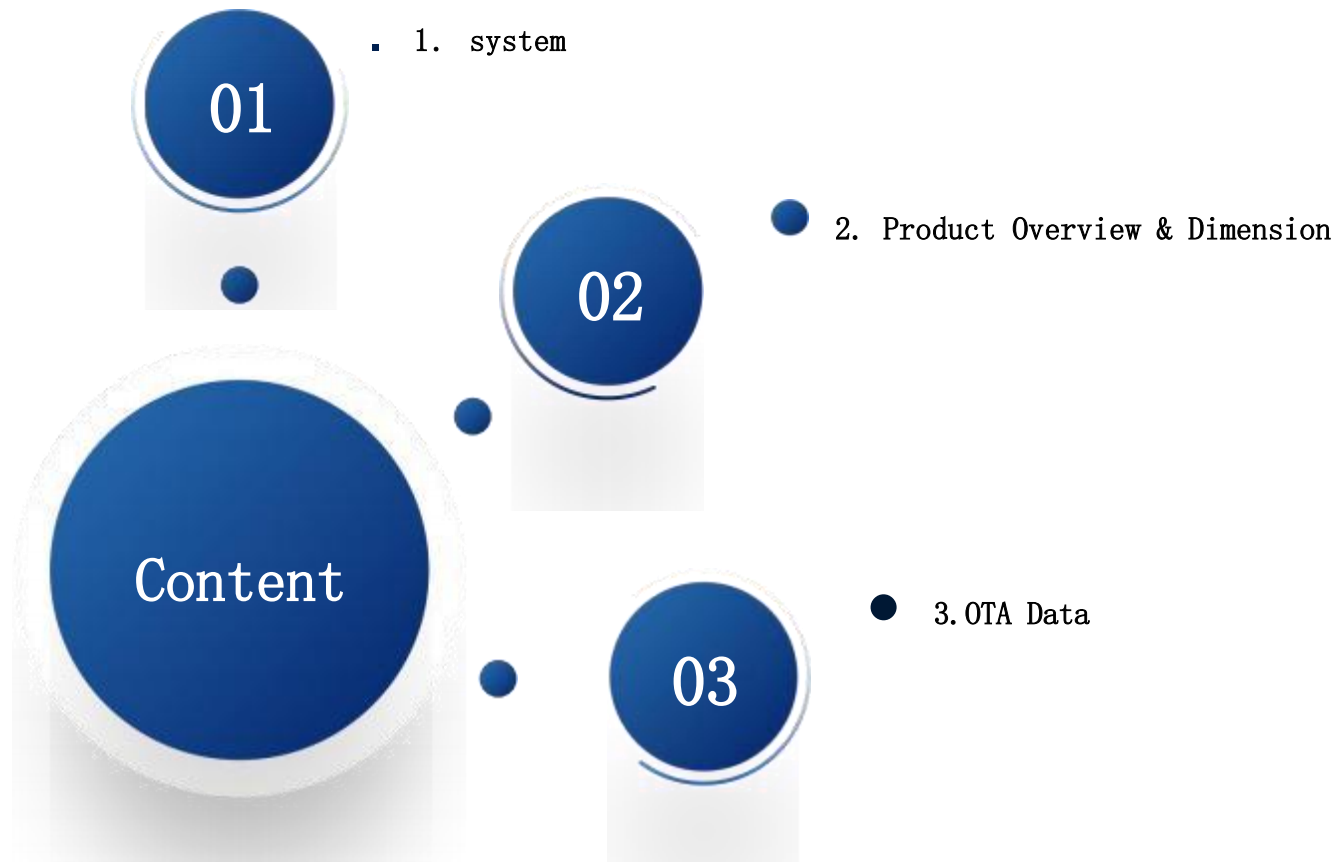


深圳合翊讯科技有限公司
Shenzhen Heyixun Technology Co., Ltd.

Customer	Hailingwei
Project	HQ31
Antenna Revision	A1
Prepared by	15993920520
Checked by	17279710721
Date	2024. 09. 18

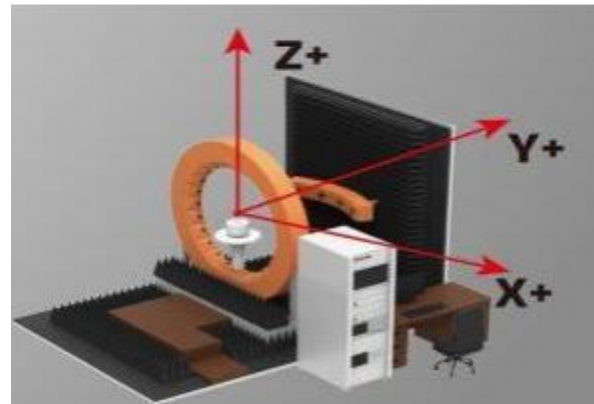
Purpose

This is the antenna specification sheet for HQ31, The antenna operating frequency at 2400-2500MHz .



1. 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



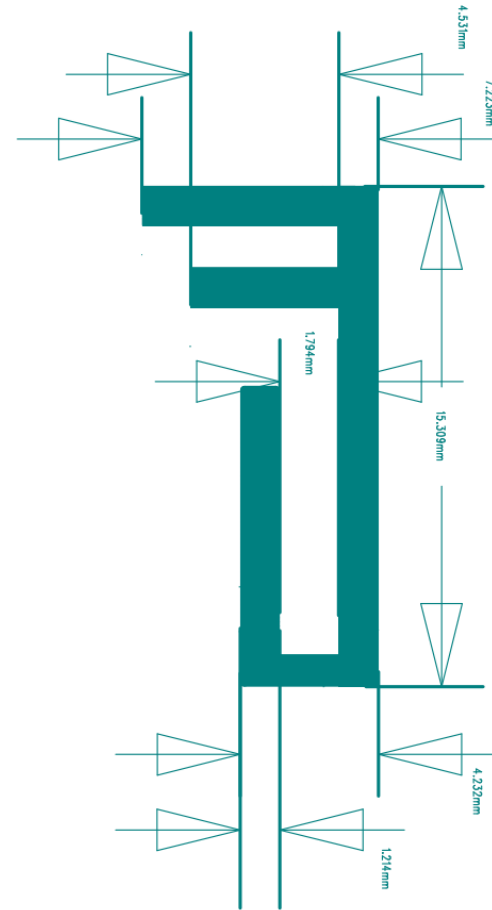
2.Product Overview & Dimension

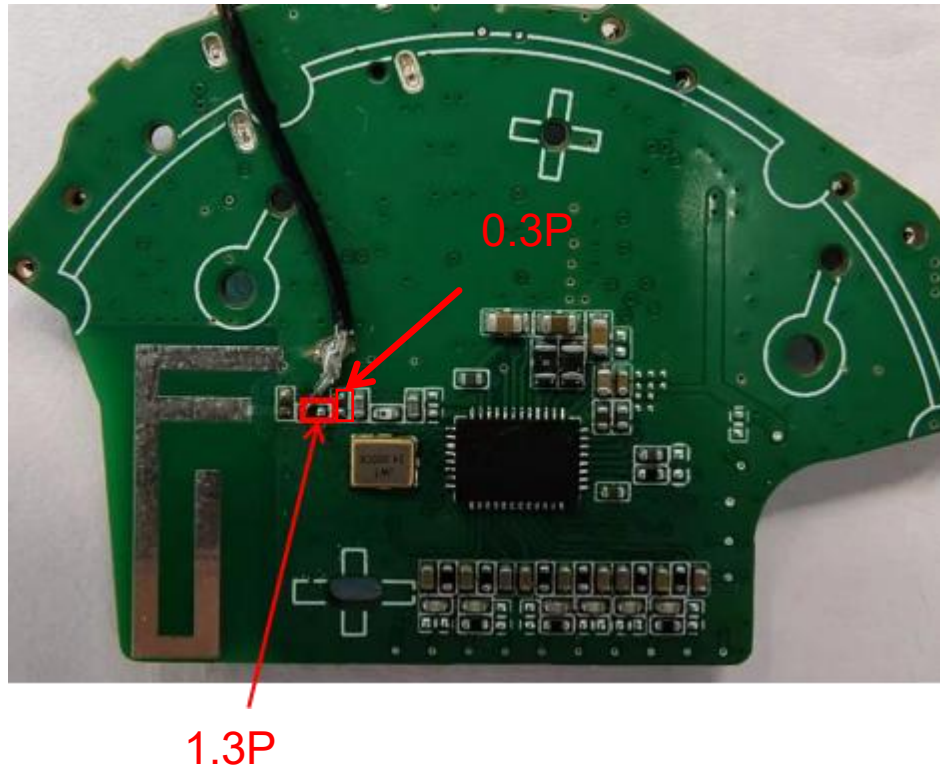
Antenna Type: PCB Antenna
Antenna Model: HQ31

Max. Gain: 2.05dBi

manufacturer: Shenzhen Hailingwei Electronics Co., Ltd.

address: 3rd Floor, Building 9, Longwangmiao Industrial Zone, Baishixia Community, Fuyong Street, Bao'an District, Shenzhen City





2.Test Result VSWR&Log Mag&Smith(Ω)



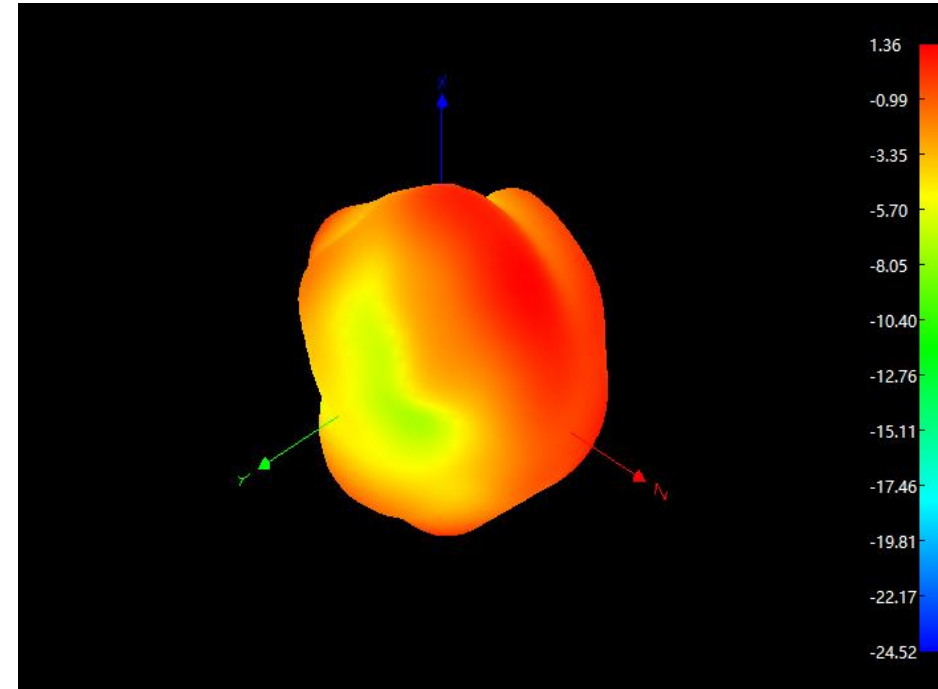
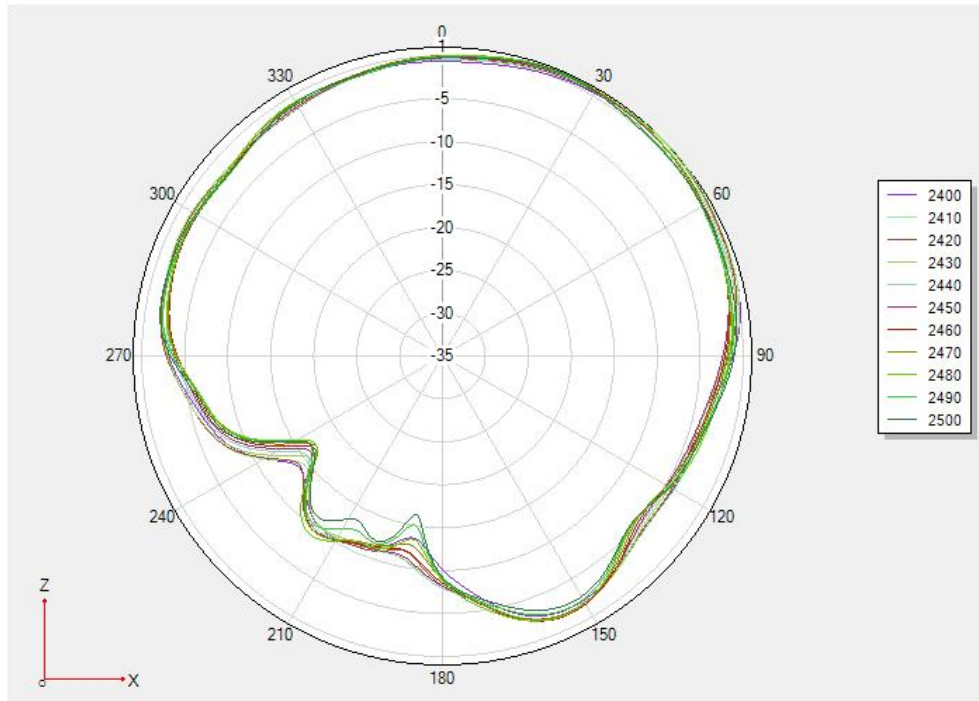
Frequency (MHz)	2400	2450	2480	2500
Log Mag	-12.29	-19.14	-18.17	-15.30
VSWR	1.64	1.25	1.28	1.41
Smith(Ω)	79.38	48.74	39.51	35.44

3. Test Result

Frequency (MHz)	Efficiency (%)	Max GAIN (dBi)
2400	43.15	1.36
2410	44.87	1.52
2420	45.39	1.66
2430	45.92	1.61
2440	45.6	1.6
2450	45.19	1.59
2460	45.71	1.7
2470	46.13	1.83
2480	45.92	2.05
2490	44.67	2.01
2500	43.95	1.98

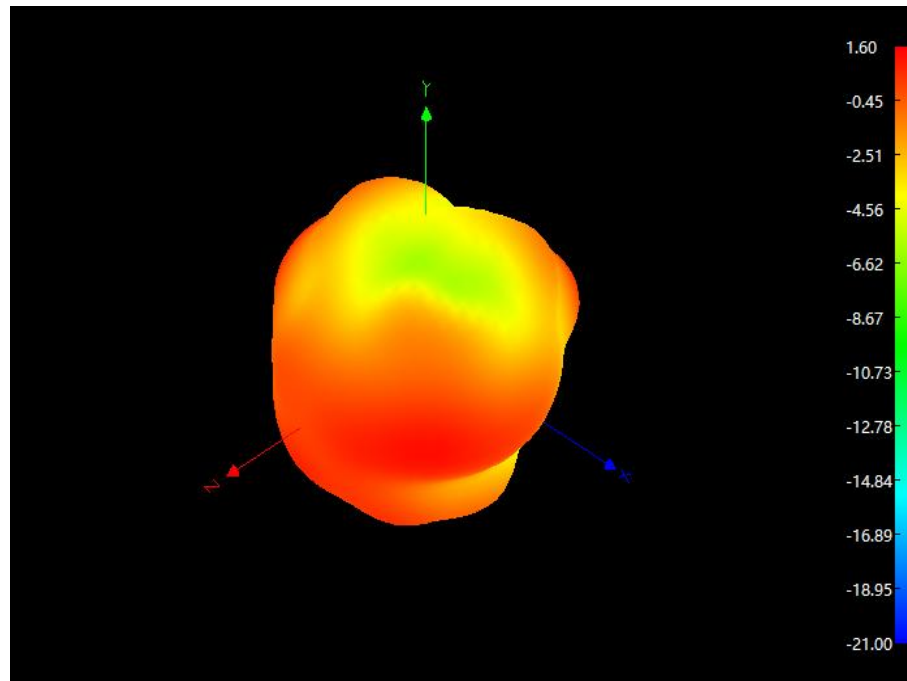
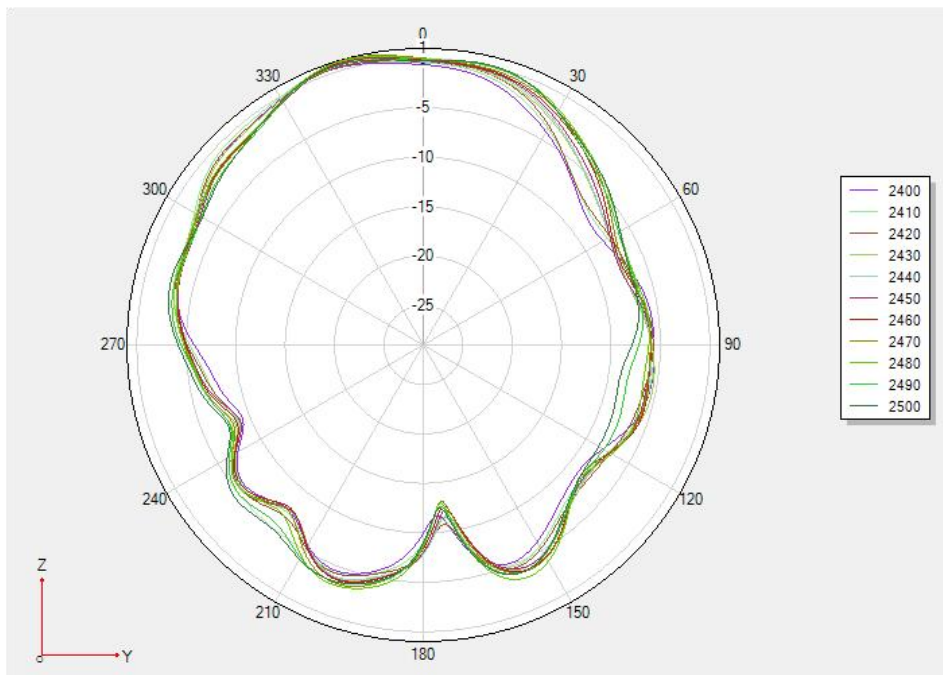
3. Test Result

3.1 2D Pattern—BTANT



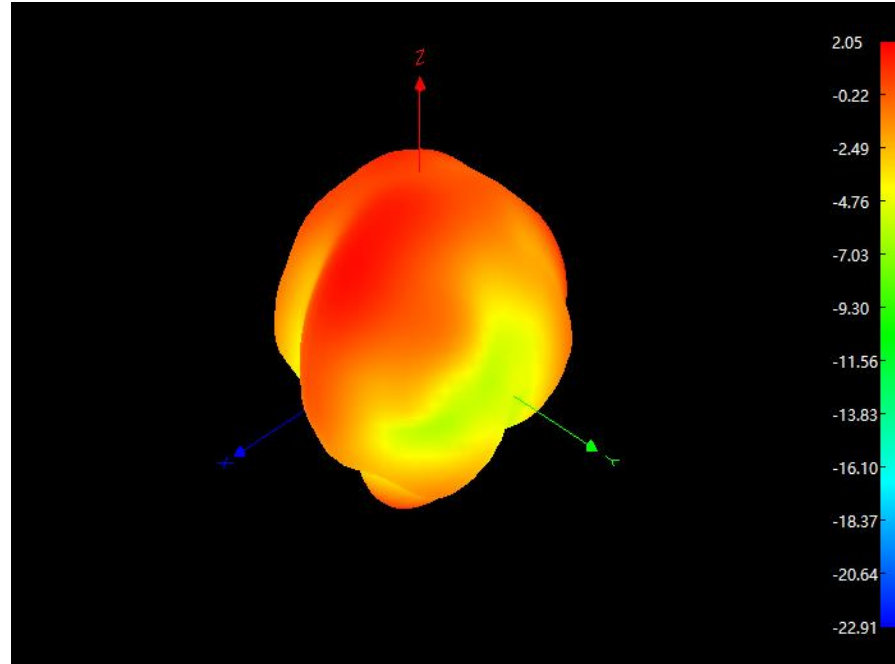
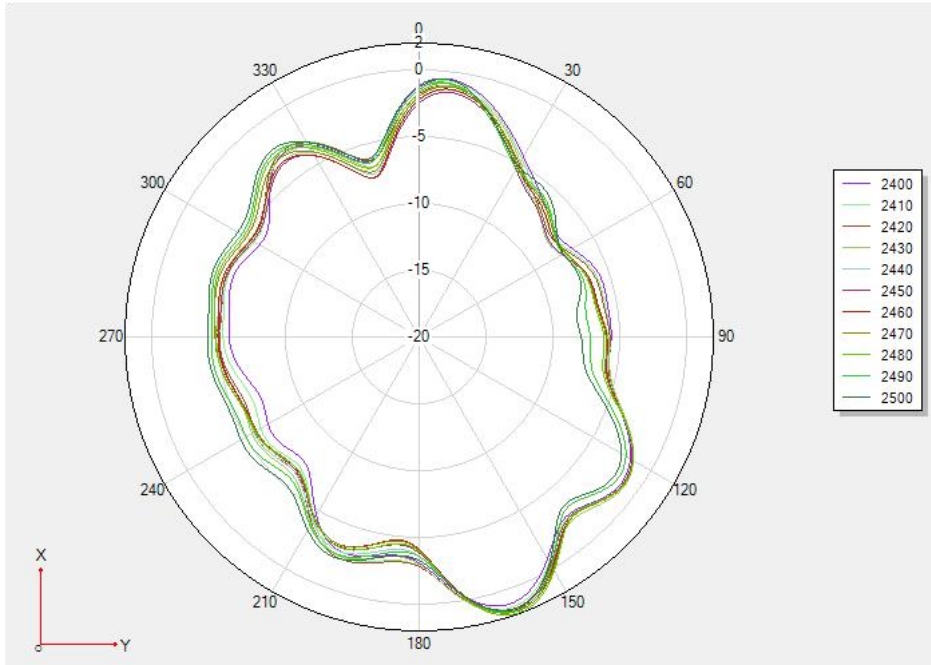
3. Test Result

3.1 2D Pattern—BTANT



3. Test Result

3.1 2D Pattern—BTANT



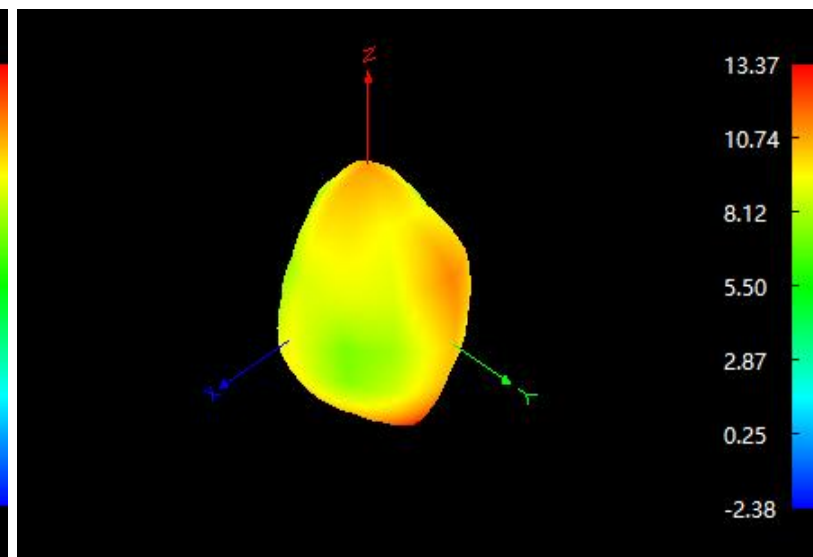
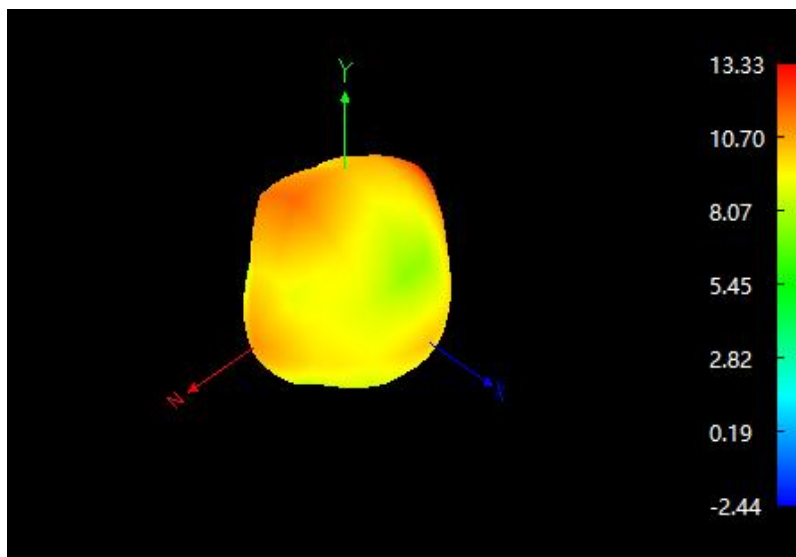
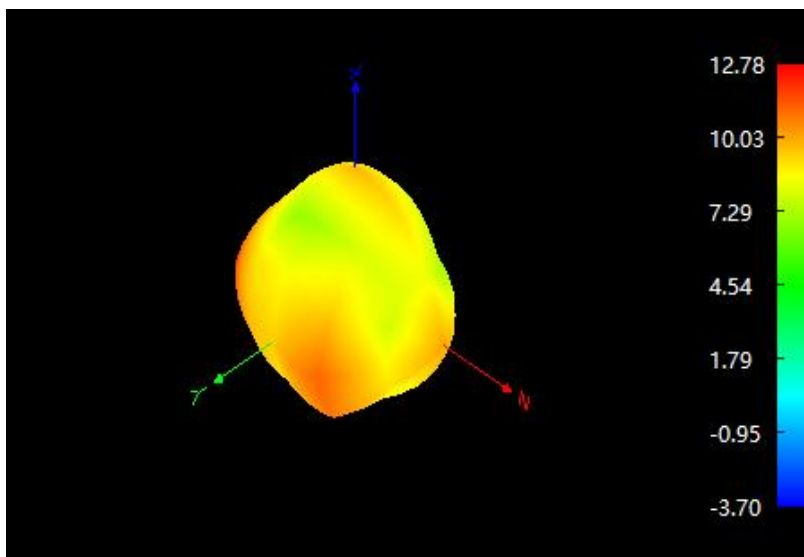
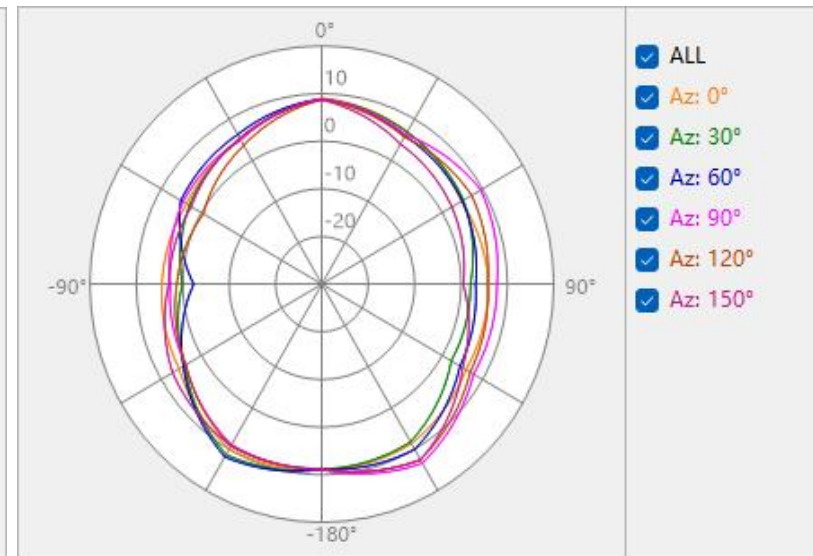
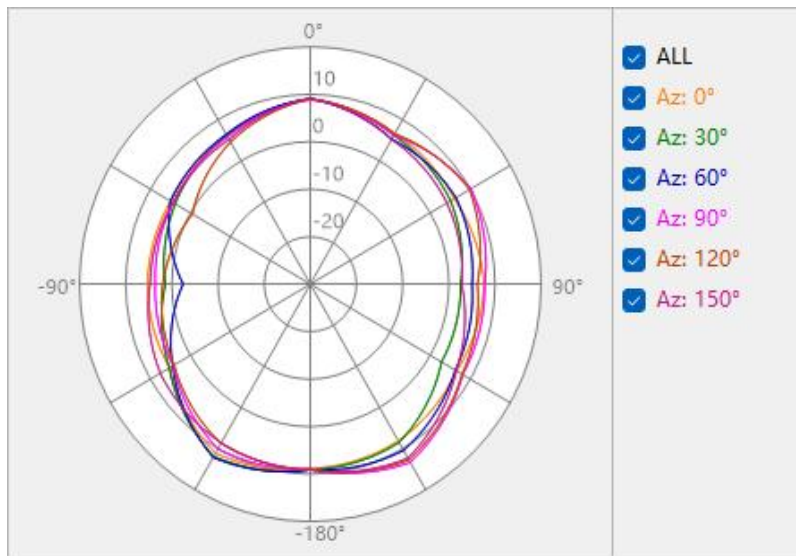
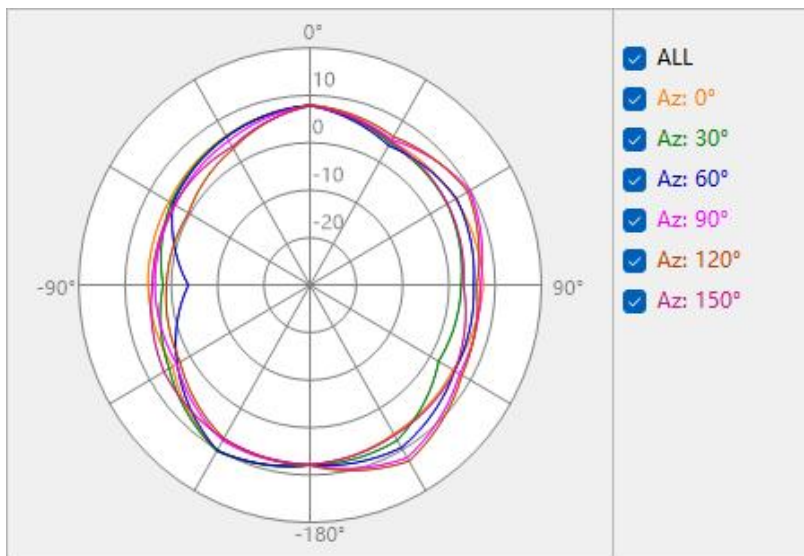
4.OTA Data

Free field test data

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	6.78	-92.18
	39	7.57	-94.1
	78	6.99	-92.81

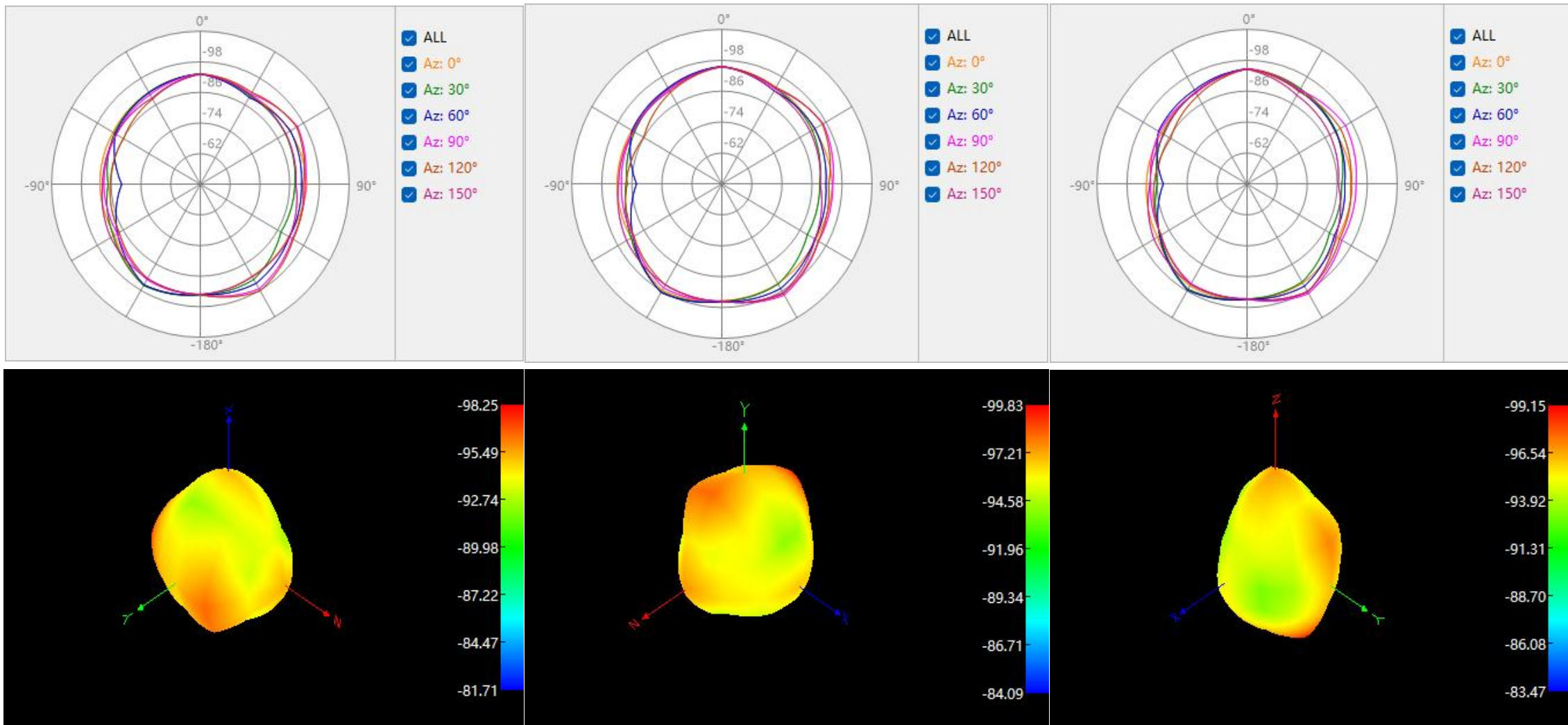
4. Test Result

TRP



4. Test Result

TIS



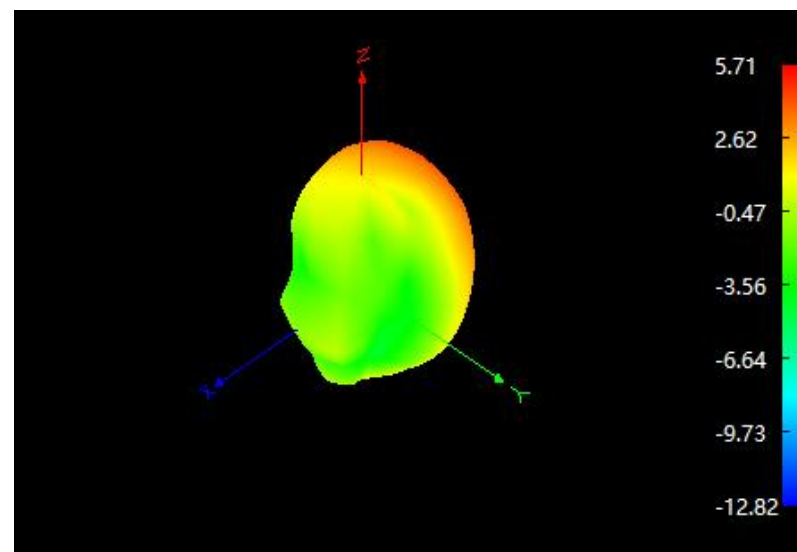
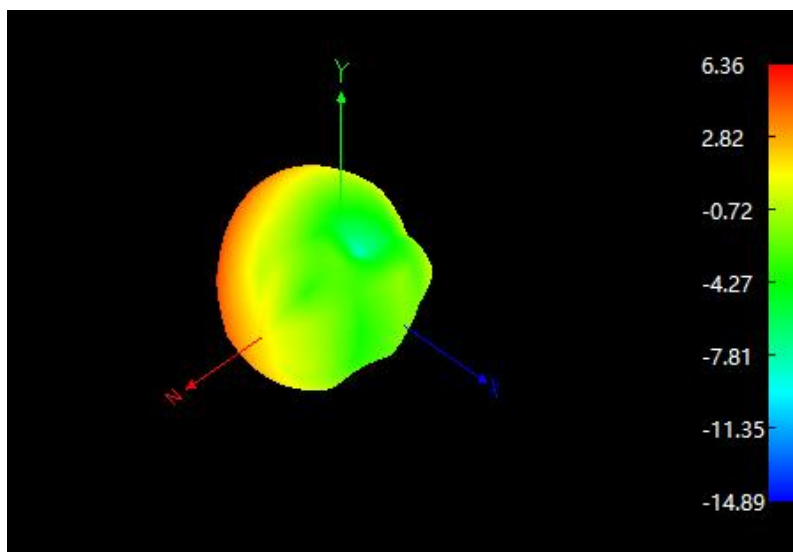
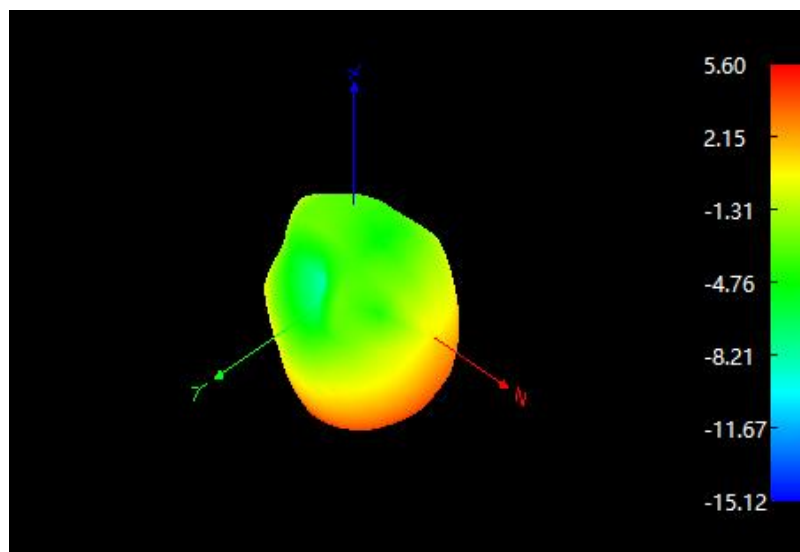
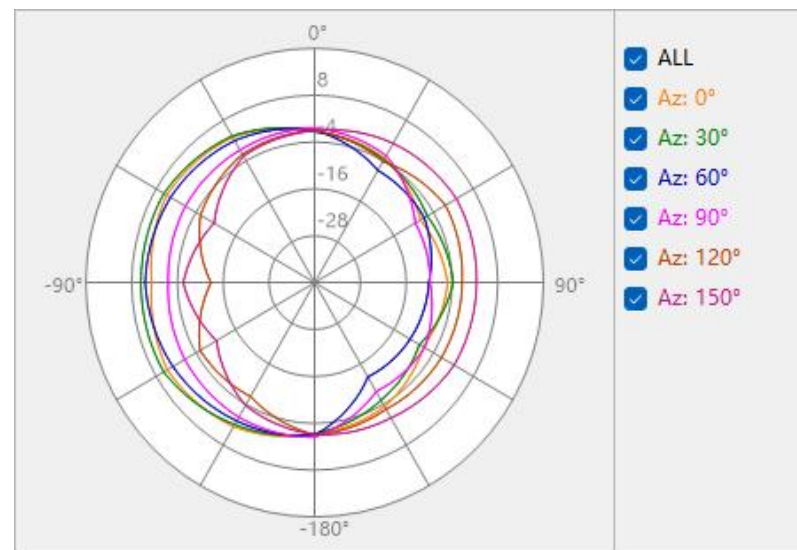
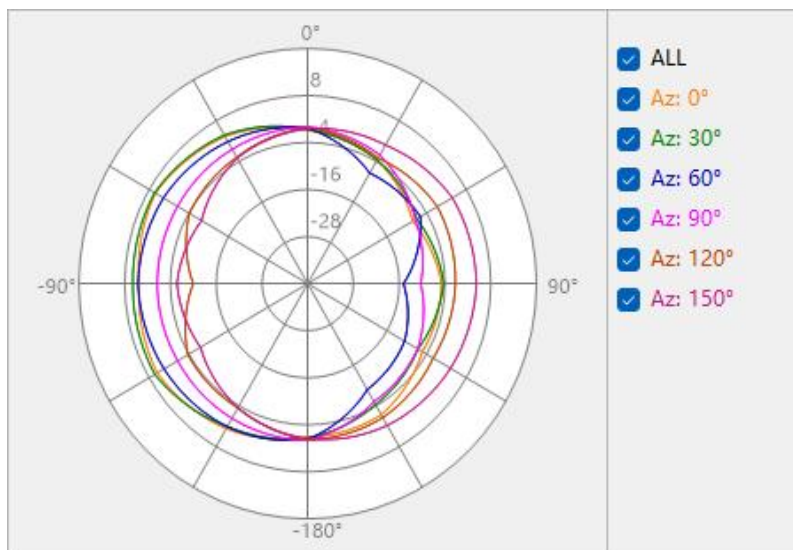
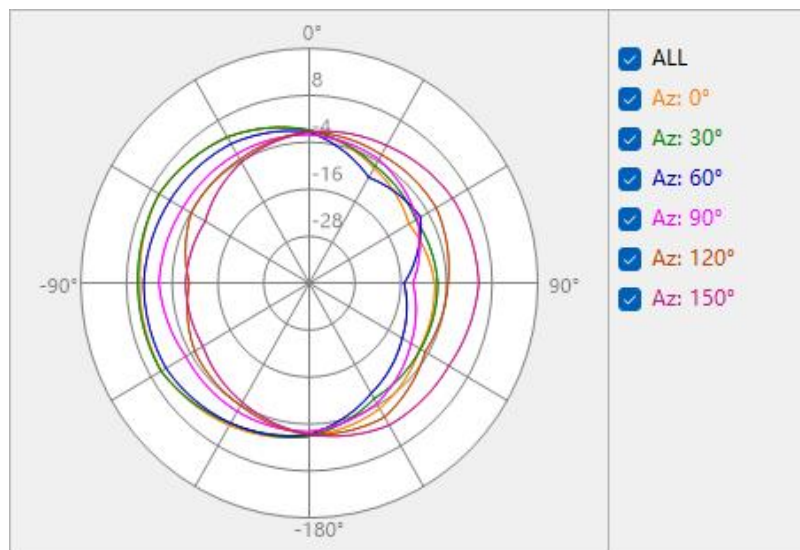
4.OTA Data

Head model data

Test Equipment:	R&S CMW500		
Test Condition:	3D chamber		
Band	Channel	TRP(dBm)	TIS(dBm)
BT	0	3.21	-88.62
	39	4.09	-90.18
	78	3.61	-88.94

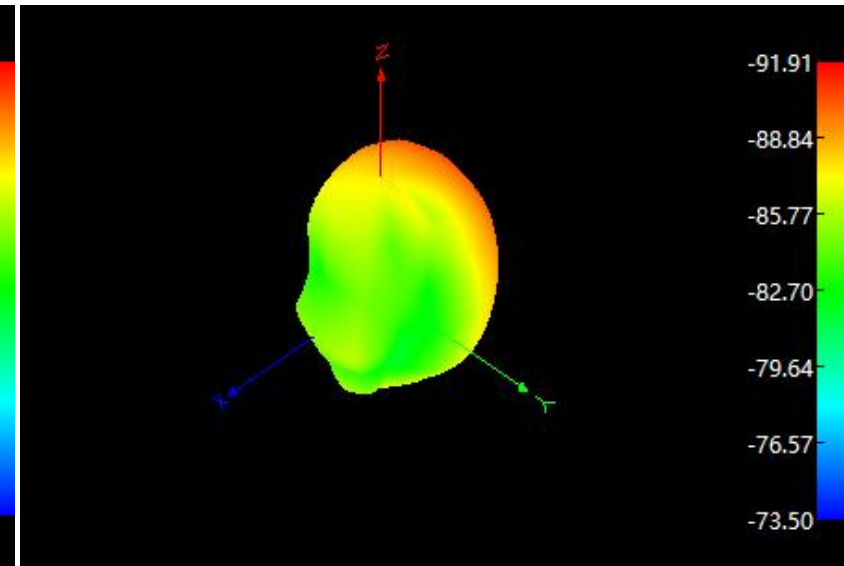
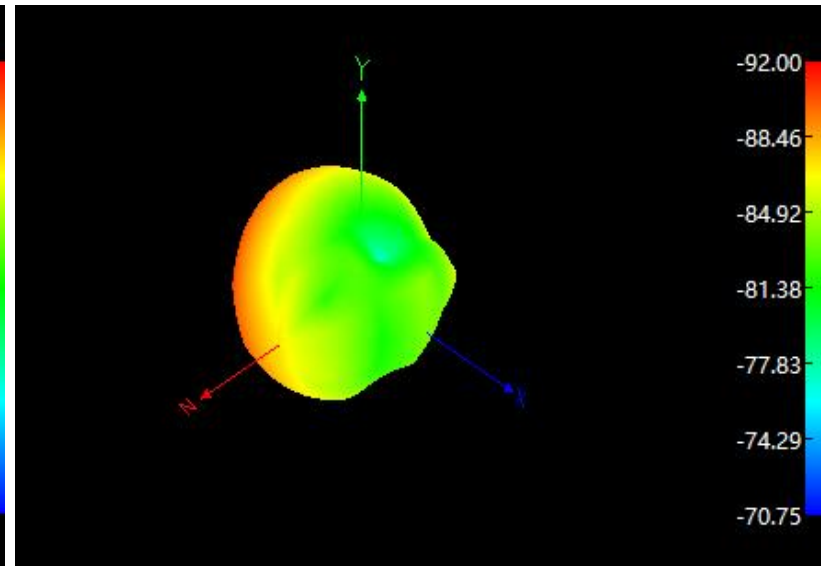
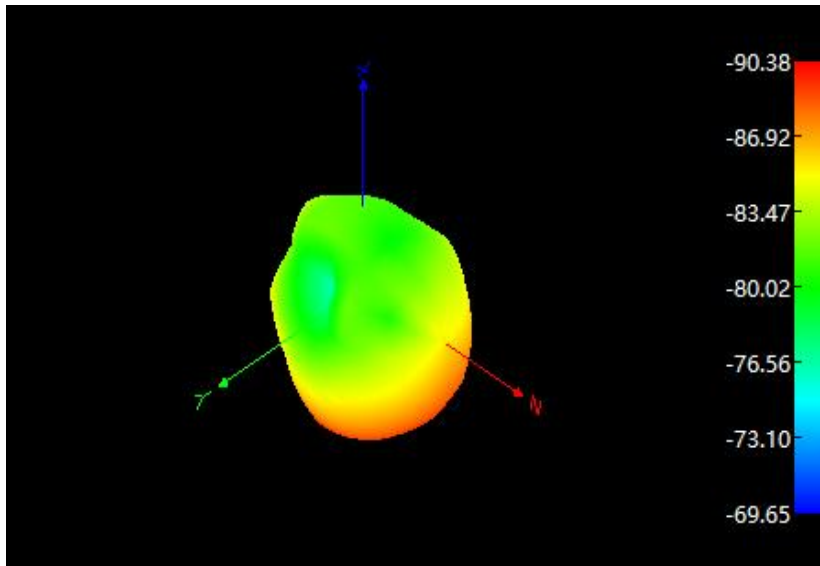
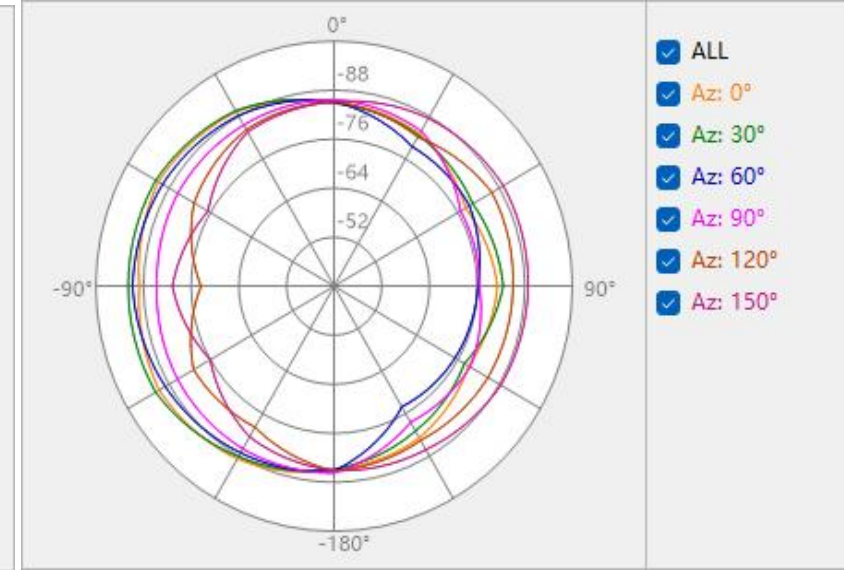
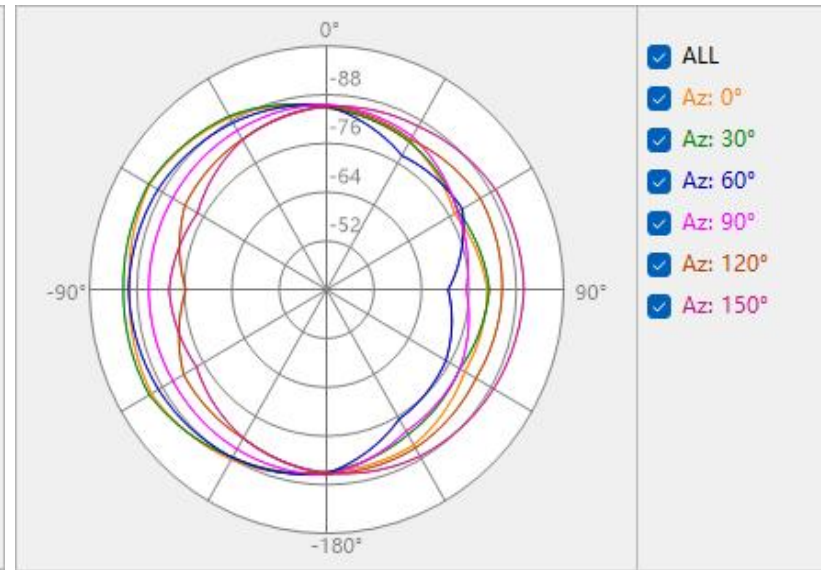
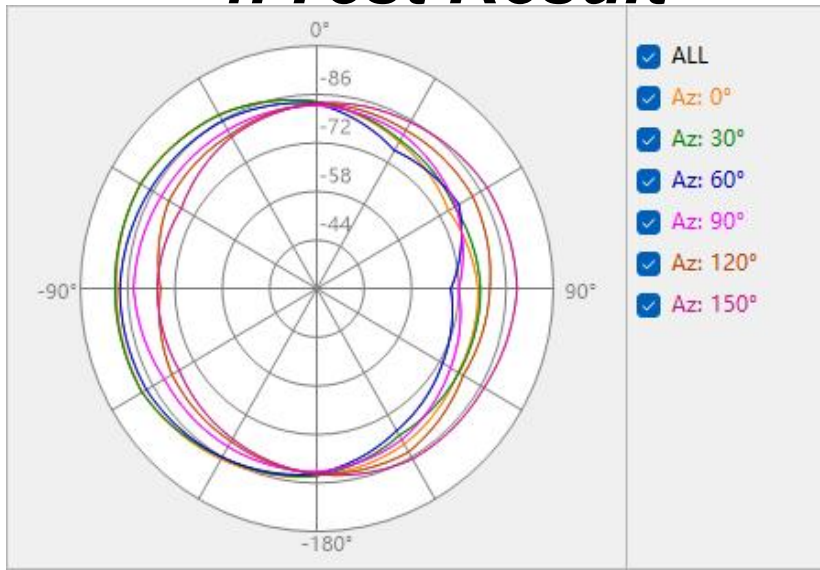
4. Test Result

TRP



4. Test Result

TIS



WORK REPORT

谢谢观看