

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna test data report

Client: Xinmiao

project: V230C

G2/3/5/8+W2/4/5/8+

FDD-2/4/5/7/8/28

Engineering: Jason (137 6025 5827)

date: 2025-05-13

Factory address: Bao'an District, Shenzhen, Shajing Street, Shayi North

Yongfa Science and Technology Park, the first third floor

1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

2. Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



Agilent 8960 (2G/3G Test Equipment)

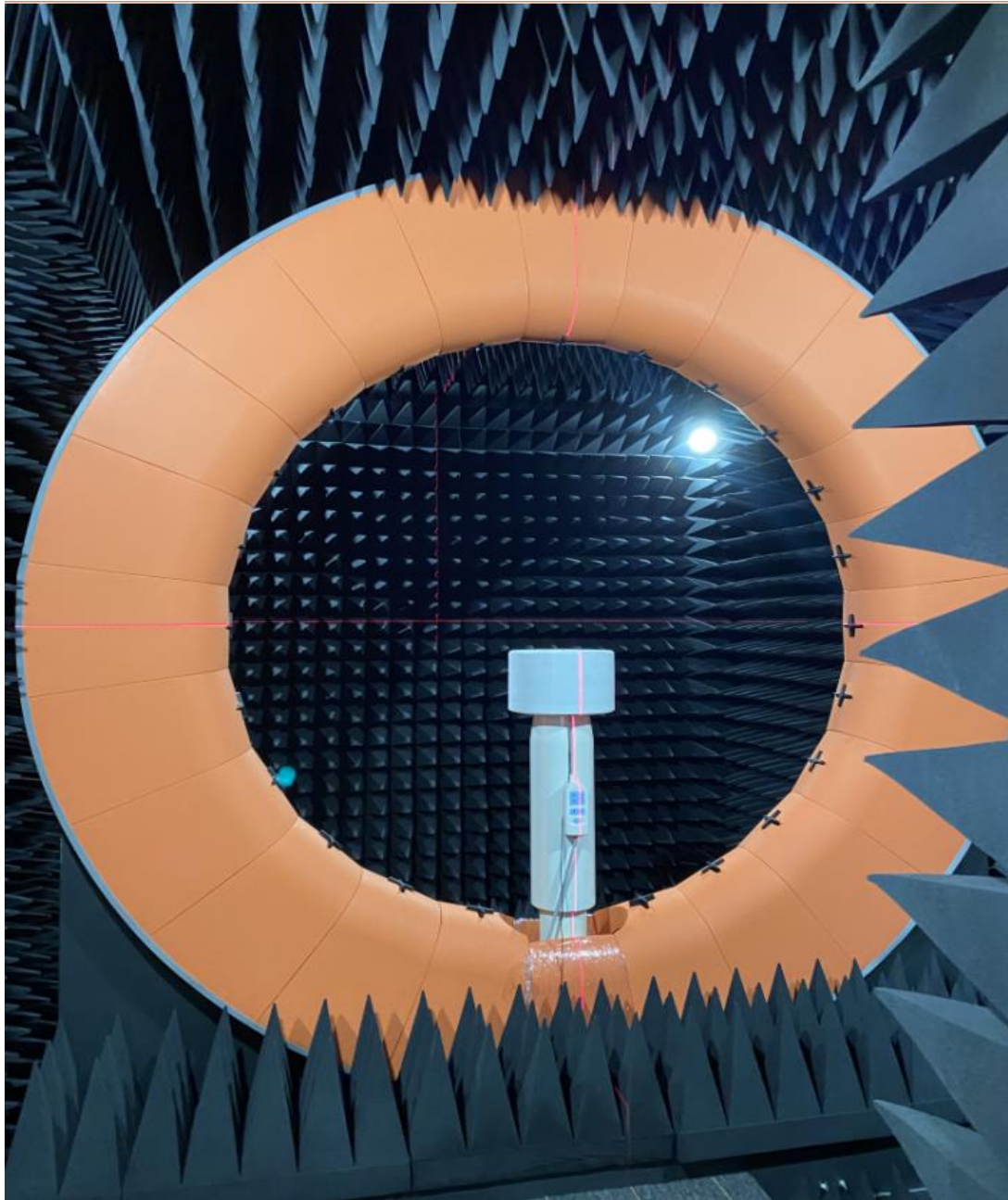


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

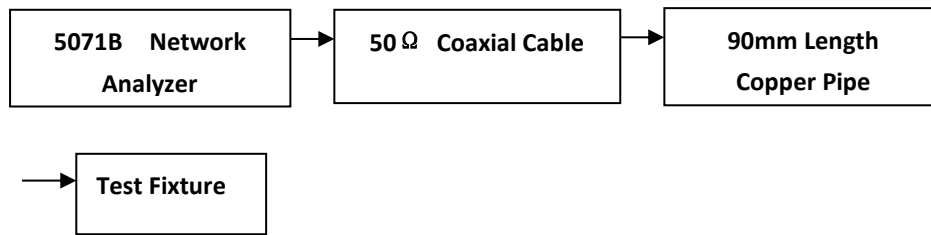
3. TestEnvironment



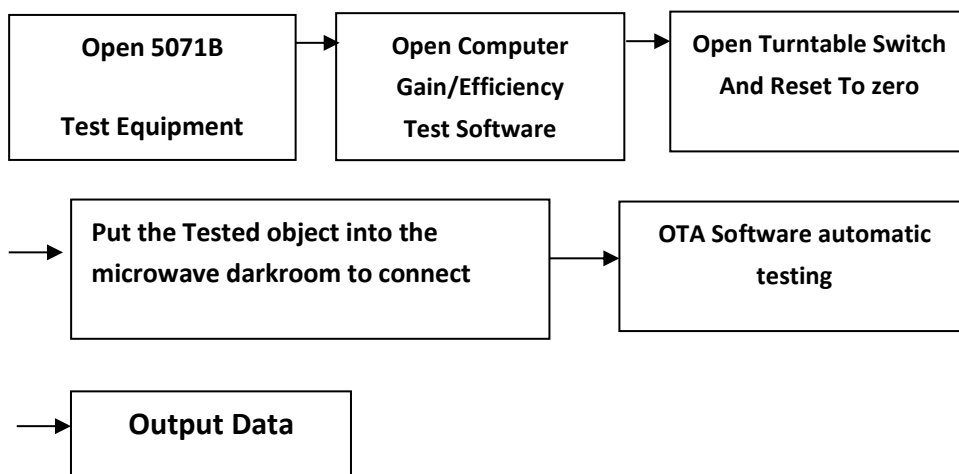
Microwave Anechoic Chamber

4.Test Steps

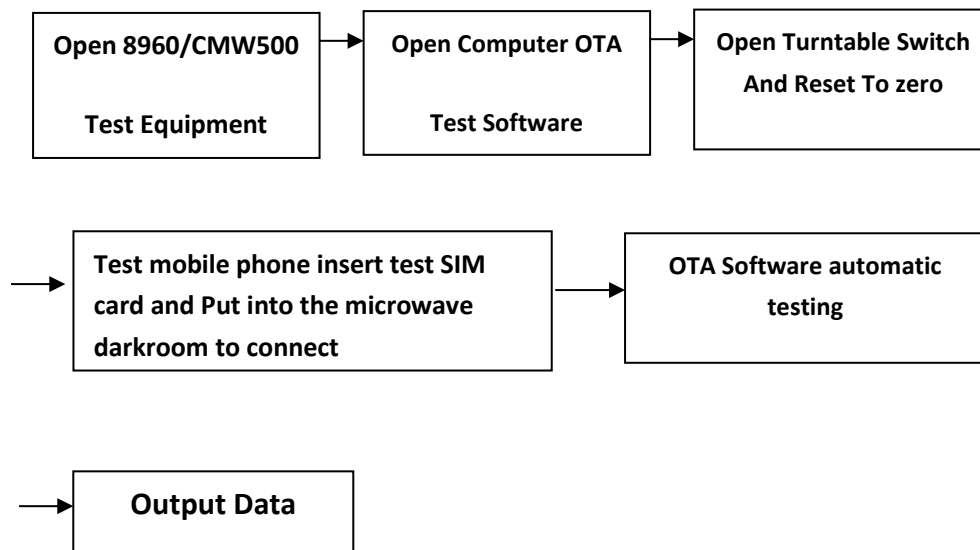
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:

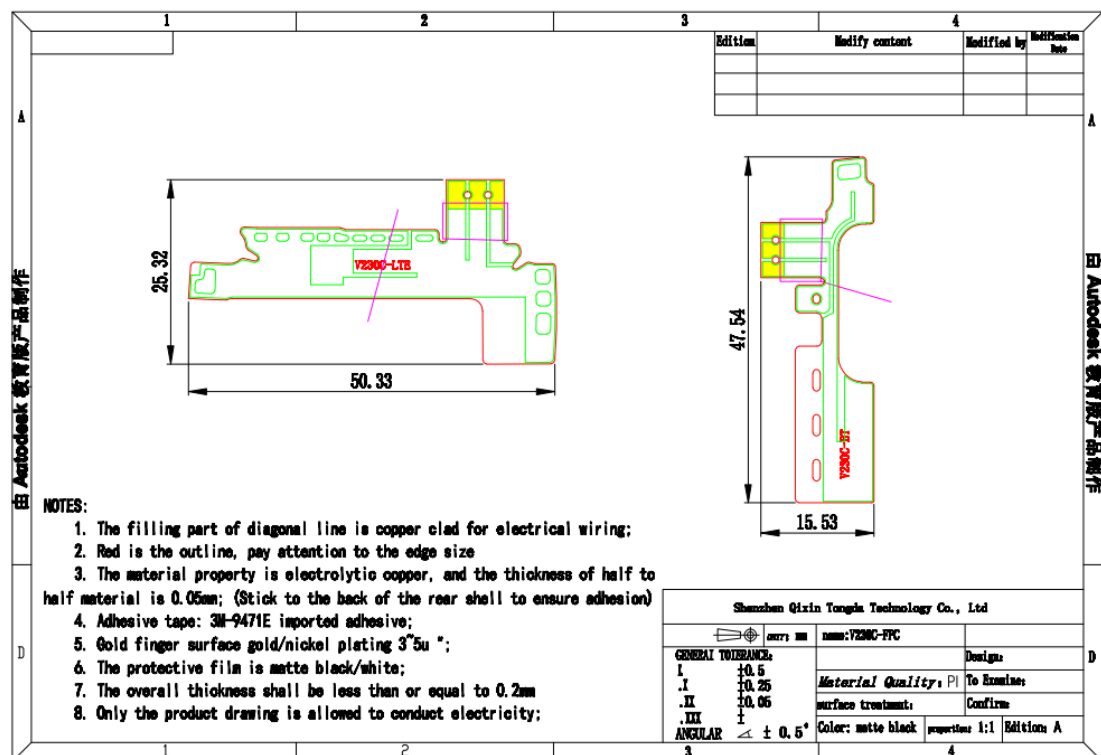


Active TRP/TIS Test Steps:



5. Antenna size diagram

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由 Autodesk 教育版产品制作

6. Antenna Gain

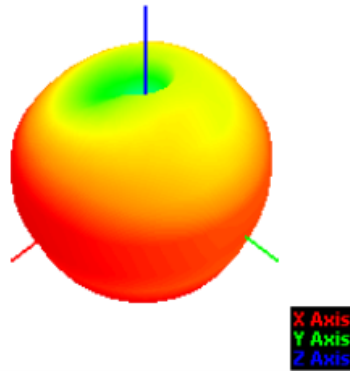
Band	Max Gain
GSM850 (824-894MHZ)	-1.56
GSM900 (880-960MHZ)	-1.32
DCS1800 (1710-1880MHZ)	-0.85
PCS1900 (1850-1990MHZ)	-1.2
WCDMA2 (1950-1990MHZ)	-1.2
WCDMA4 (1710-2155MHZ)	-0.85
WCDMA5 (824-894MHZ)	-1.56
WCDMA8 (880-960MHZ)	-2.46
LTE-B2 (1850-1990MHZ)	-1.2
LTE-B4 (1710-2155MHZ)	-0.85
LTE-B5 (824-894MHZ)	-1.56
LTE-B7 (2500-2690MHZ)	-0.62
LTE-B8 (880-960MHZ)	-1.32
LTE-B28 (703-803MHZ)	-1.85
Bluetooth (2400-2483.5MHZ)	0.05

7.2D&3D Lobe Diagram

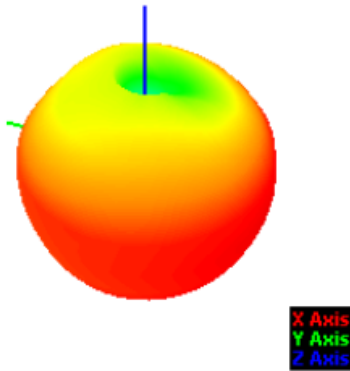
GSM850



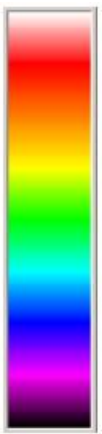
830.00MHz@T45P45



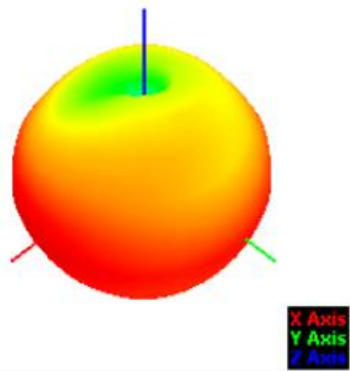
830.00MHz@T45P200



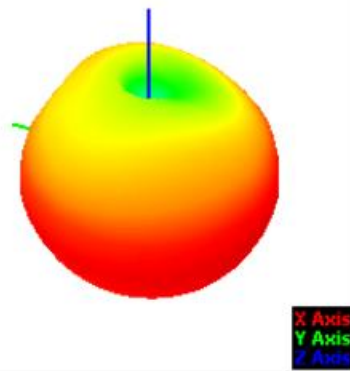
GSM900



880.00MHz@T45P45



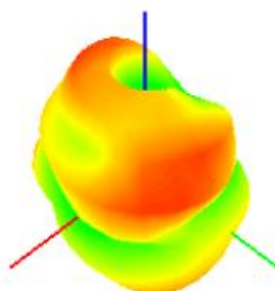
880.00MHz@T45P200



DSC1800

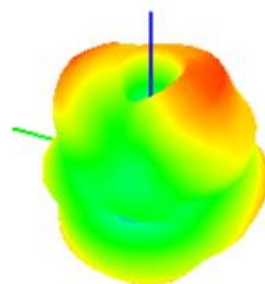


1720.00MHz@T45P45



X Axis
Y Axis
Z Axis

1720.00MHz@T45P200

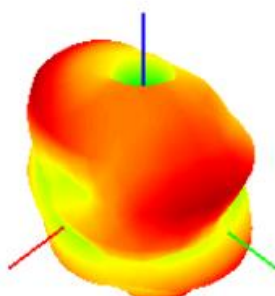


X Axis
Y Axis
Z Axis

PCS1900

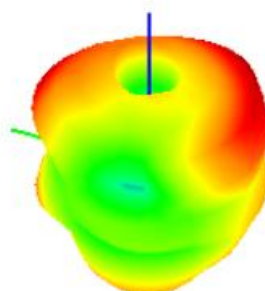


1860.00MHz@T45P45



X Axis
Y Axis
Z Axis

1860.00MHz@T45P200

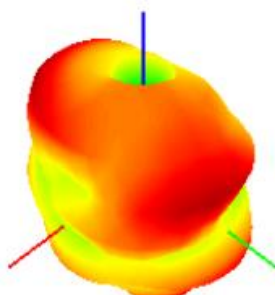


X Axis
Y Axis
Z Axis

W2

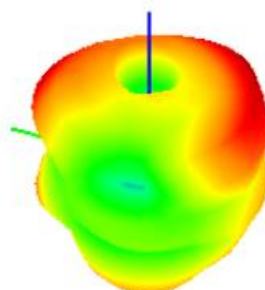


1860.00MHz@T45P45



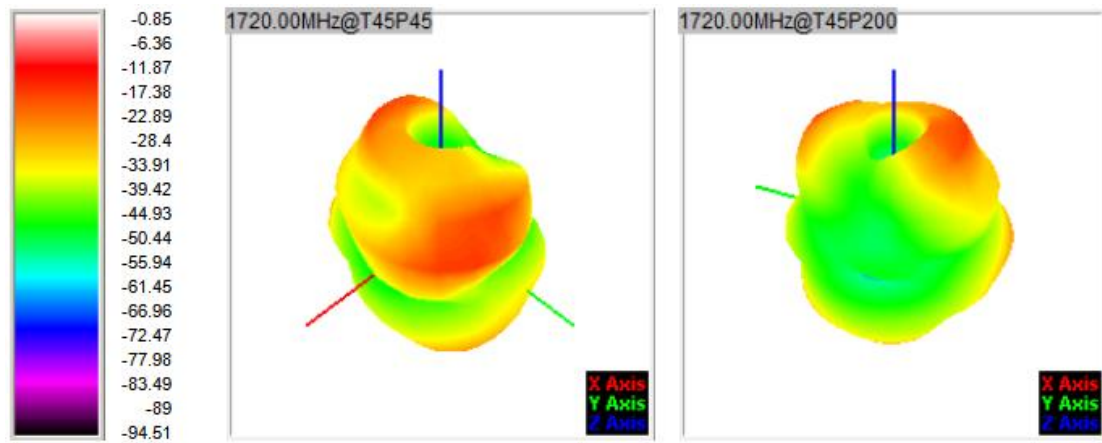
X Axis
Y Axis
Z Axis

1860.00MHz@T45P200

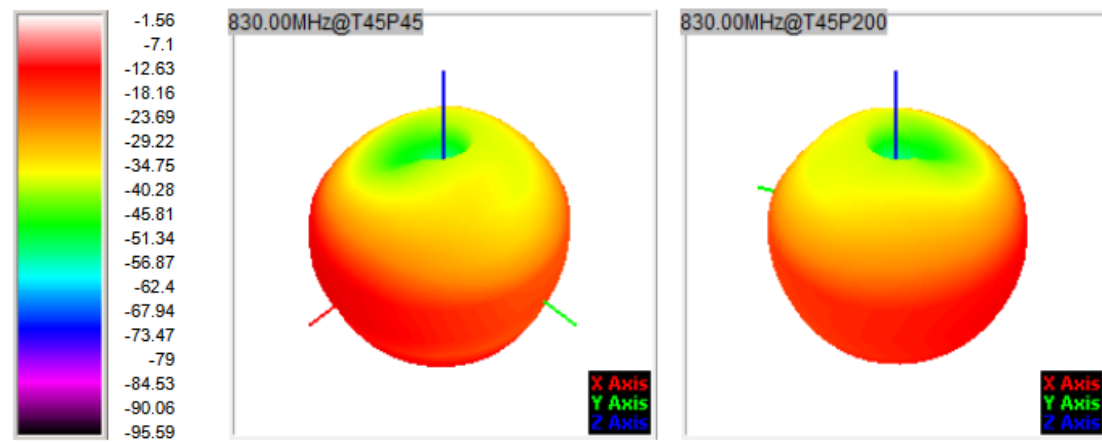


X Axis
Y Axis
Z Axis

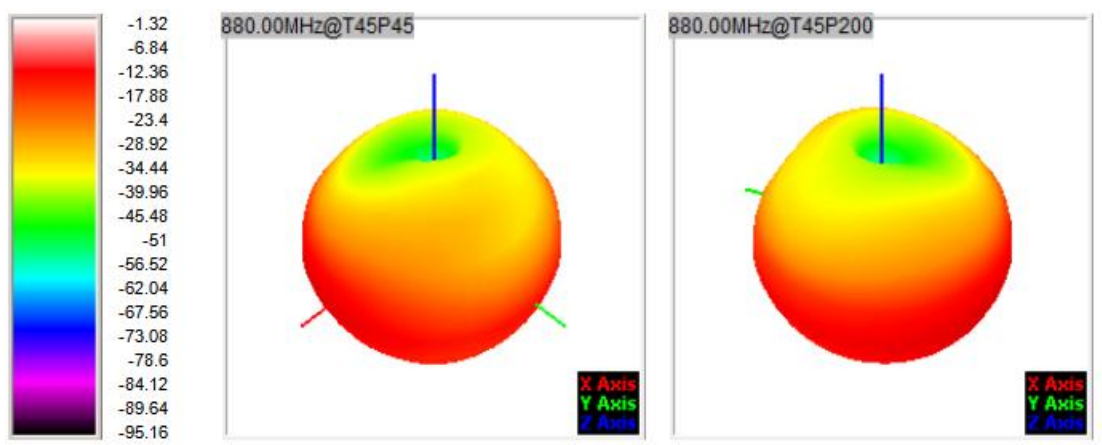
W4



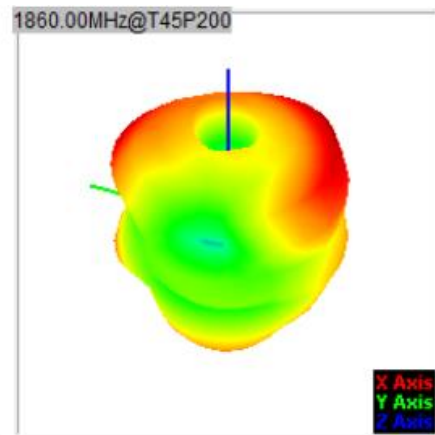
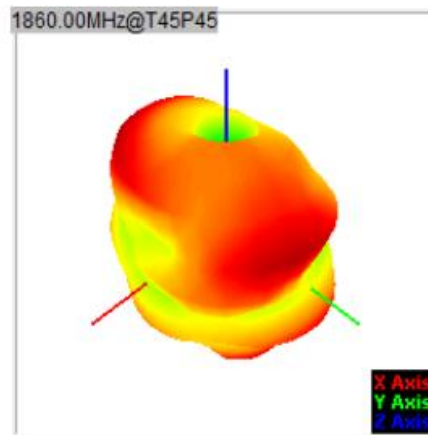
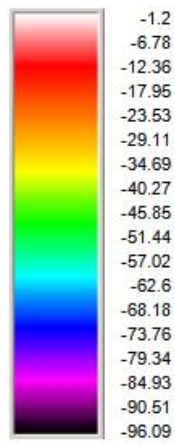
W5



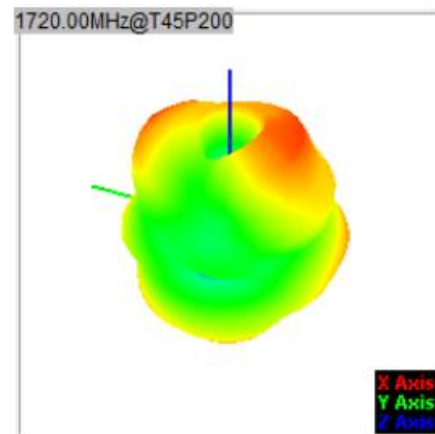
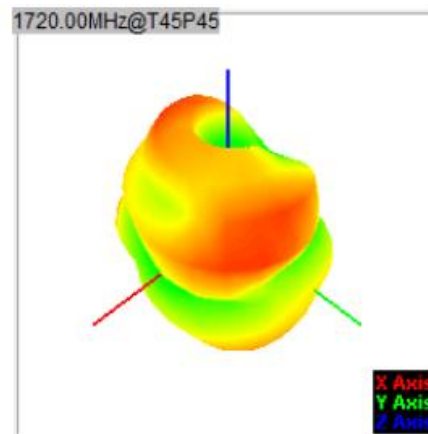
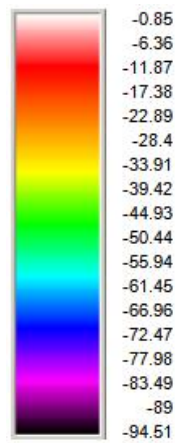
W8



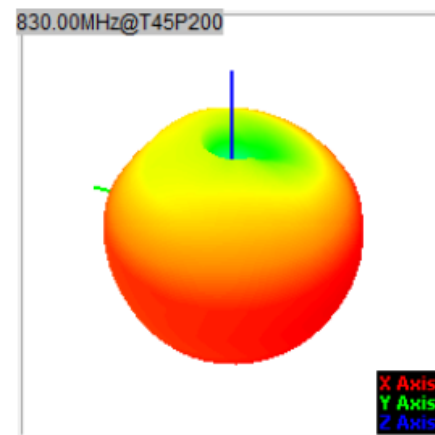
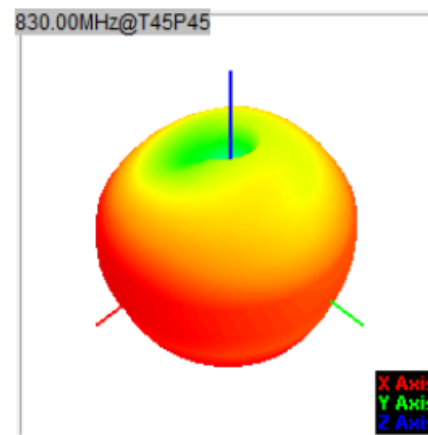
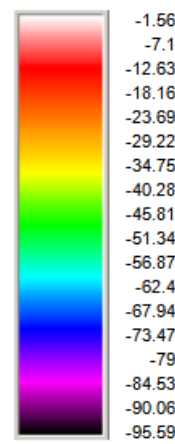
FDD-B2



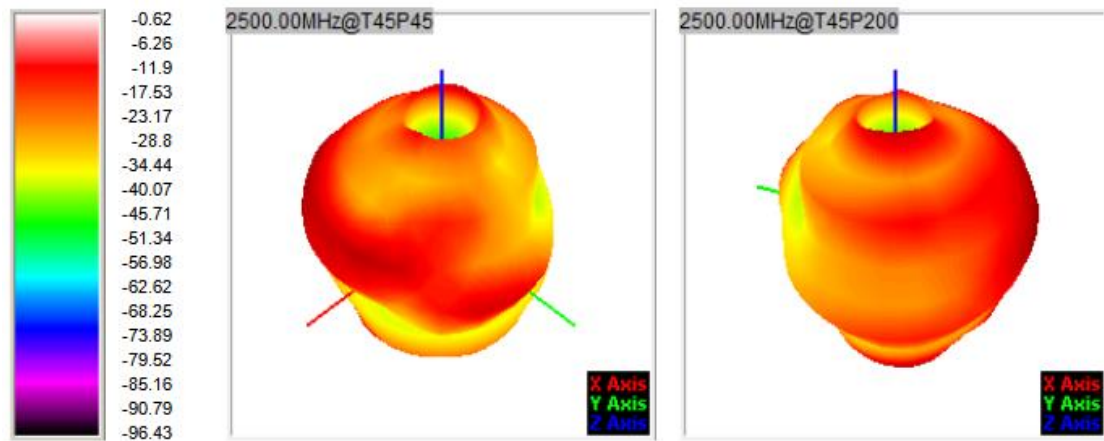
FDD-B4



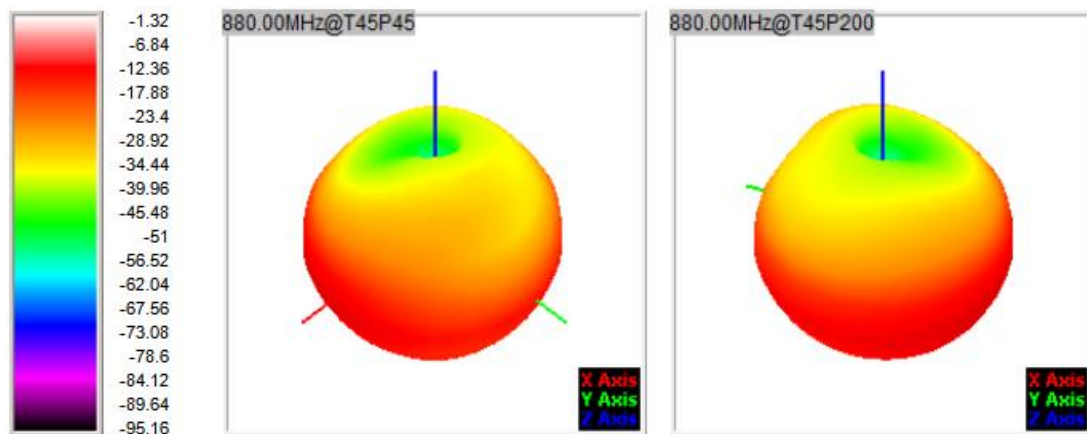
FDD-B5



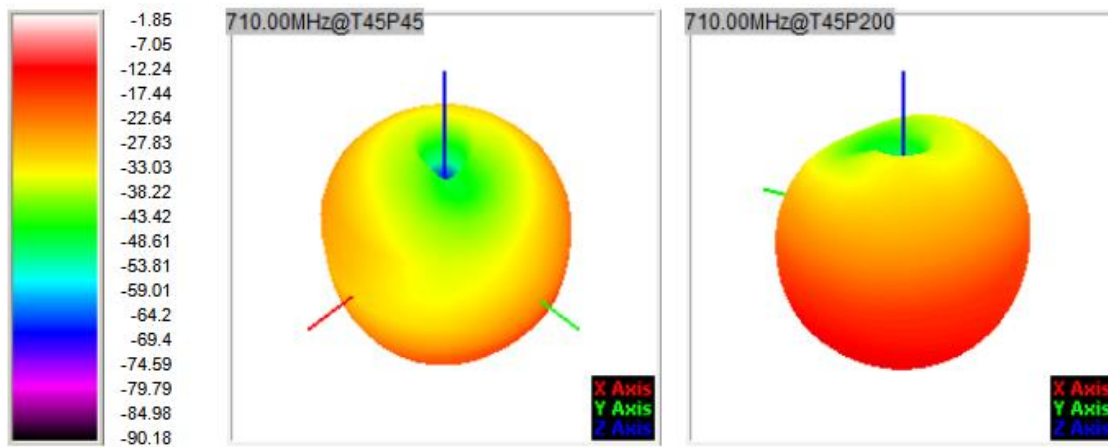
FDD-B7



FDD-B8



FDD-B28



8.Introduction to Antenna Information

V230C	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G
Antenna materia	FPC