

Shenzhen Qixin Tongda Technology Co., Ltd

Antenna Specification

Client: YIBOTONG

Project Name: E66F1

Frequency Band:G2/3/5/8+W1/2/4/5/8+

FDD-B1/2/3/4/5/7/13/20/28AB/66+TDD-B38/40/41

Engineering: Jason (137 6025 5827)

date: 2026-04-09

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)

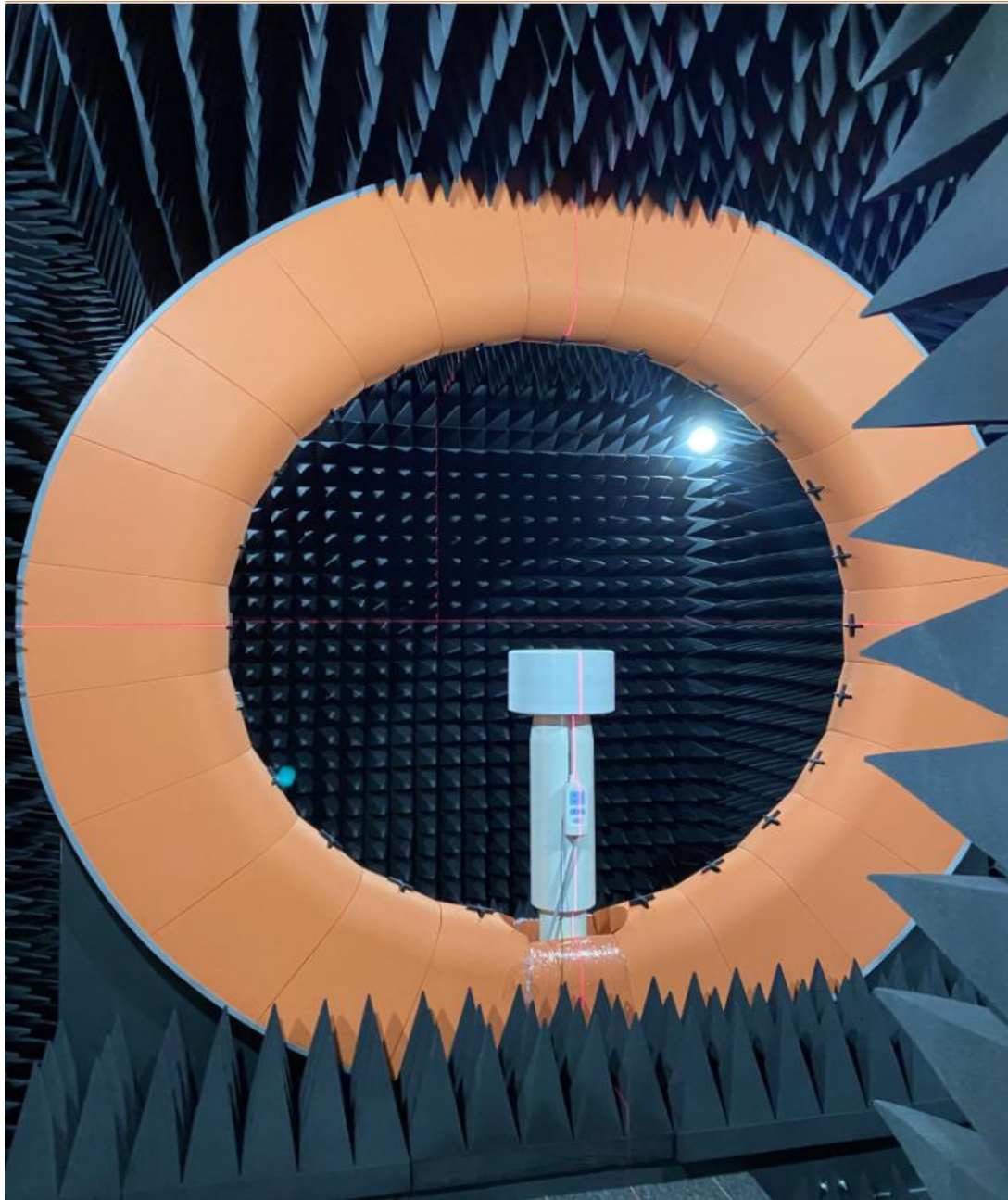


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

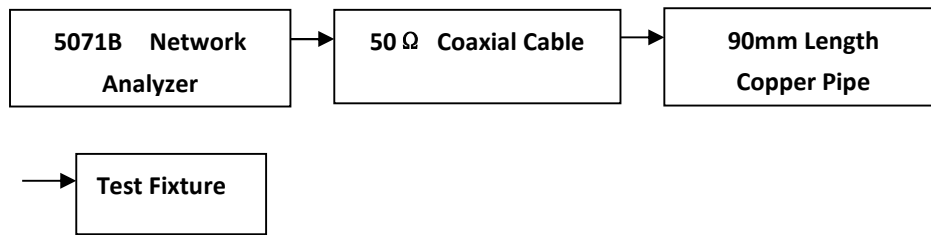
3. TestEnvironment



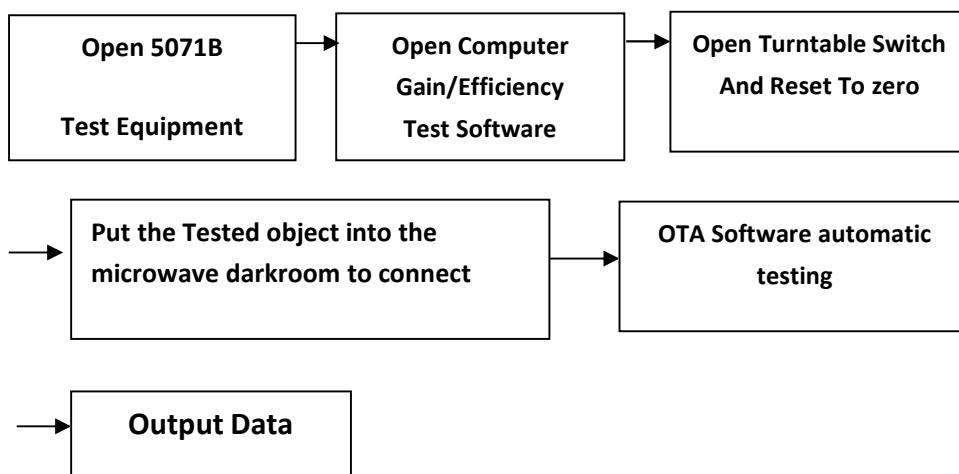
Microwave Anechoic Chamber

4.Test Steps

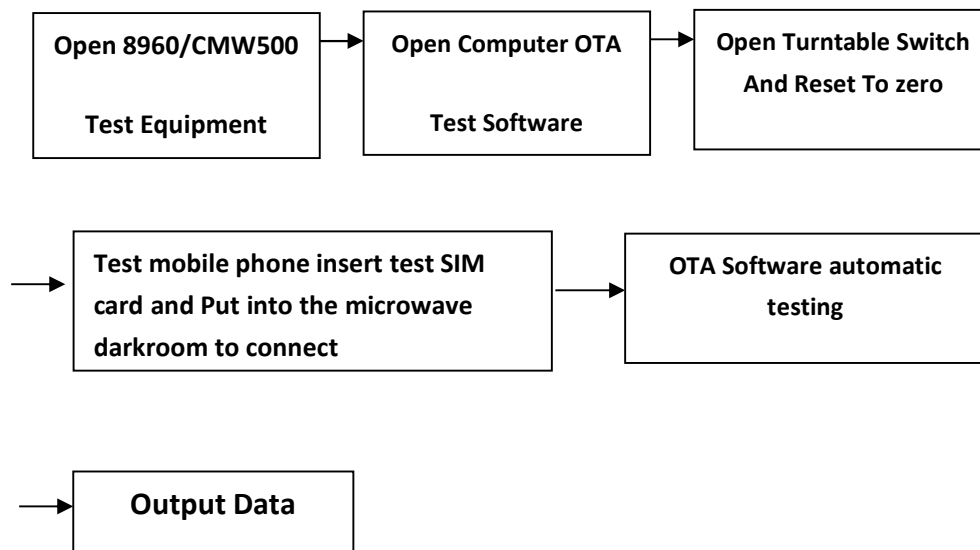
Passive VSWR/RL Test Steps:



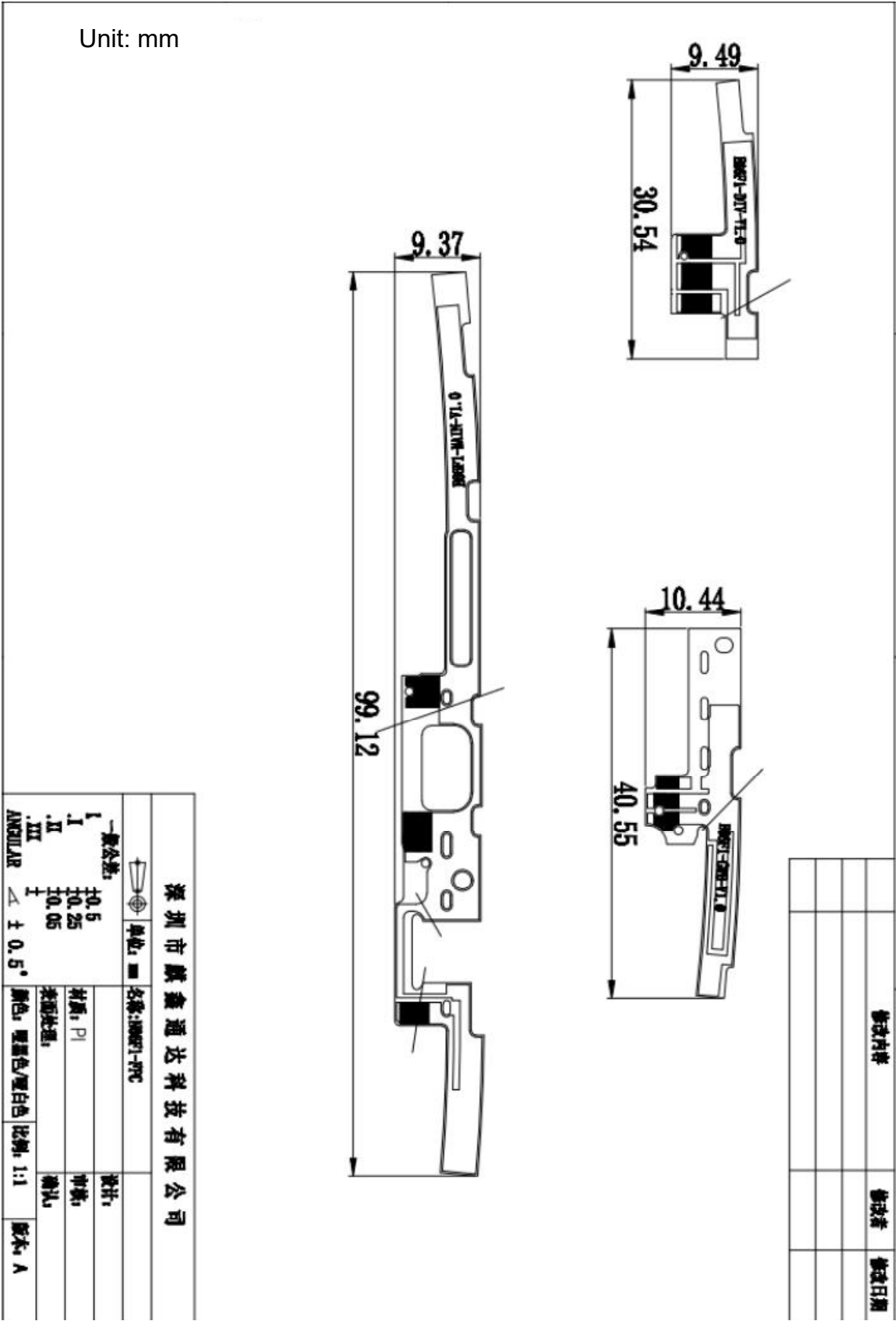
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna size diagram



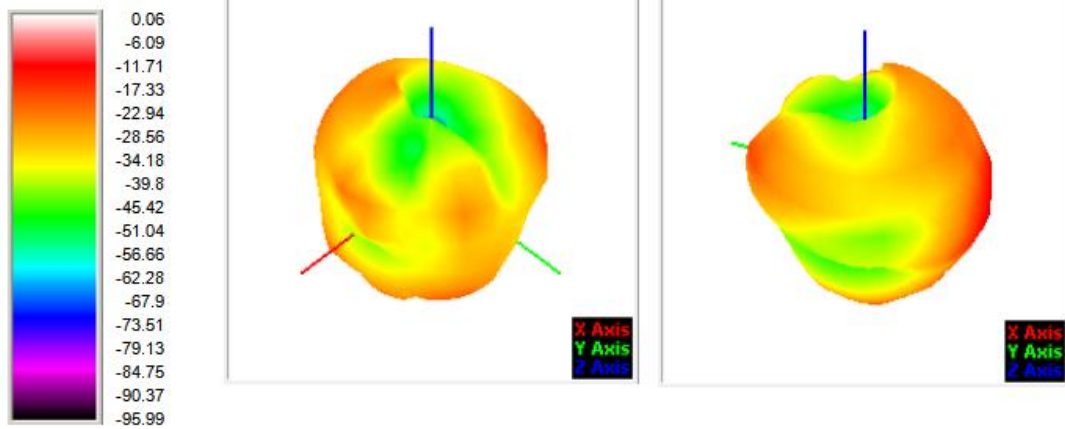
6. Antenna Gain

Band	Max Gain
GSM850 (824-894MHZ)	-2.65
GSM900 (880-960MHZ)	-2.32
DCS1800 (1710-1880MHZ)	0.35
PCS1900 (1850-1990MHZ)	0.28
WCDMA1 (1920-2170MHZ)	0.26
WCDMA2 (1850-1990MHZ)	0.28
WCDMA4 (1710-2155MHZ)	0.25
WCDMA5 (824-894MHZ)	-2.65
WCDMA8 (880-960MHZ)	-2.32
LTE-B1 (1920-2170MHZ)	0.25
LTE-B2 (1850-1990MHZ)	0.28
LTE-B3 (1710-1880MHZ)	0.32
LTE-B4 (1710-2155MHZ)	0.25
LTE-B5 (824-894MHZ)	-2.65
LTE-B7 (880-960MHZ)	0.45
LTE-B13 (746-777MHZ)	-2.80
LTE-B20 (791-862MHZ)	-2.65
LTE-B28 (703-803MHZ)	-2.88
LTE-B66 (1710-1780MHZ)	0.35
LTE-B38 (2570-2620MHZ)	0.45
LTE-B40 (2300-2400MHZ)	0.39
LTE-B41 (2496-2690MHZ)	0.45

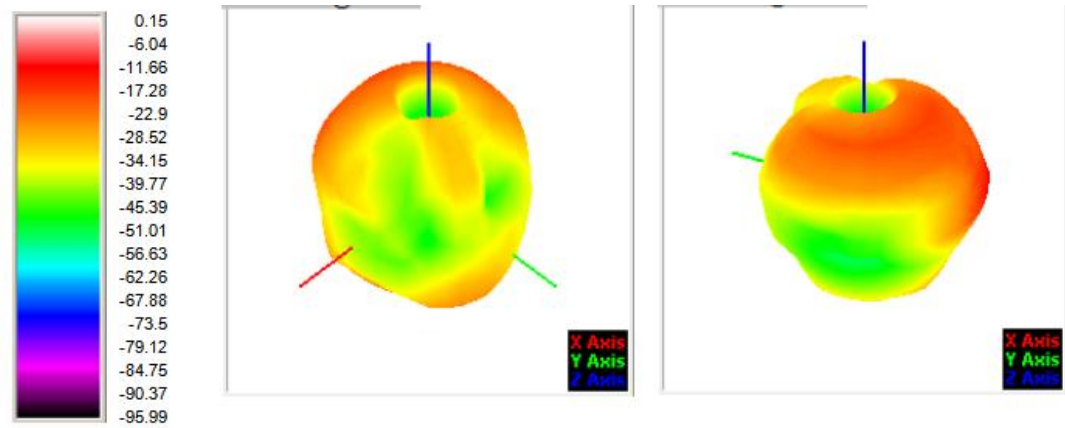
(L1/BT/WIFI2.4/5150-5.850G/GPS)	
Band	Max Gain(dBi)
Bluetooth	0.15
WIFI-2.4G	0.15
WIFI-5G	0.12
GPS-L1	0.06

7.2D&3D Lobe Diagram

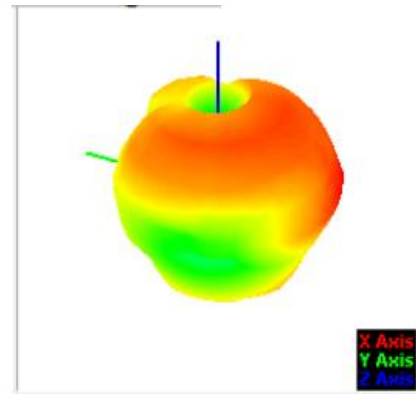
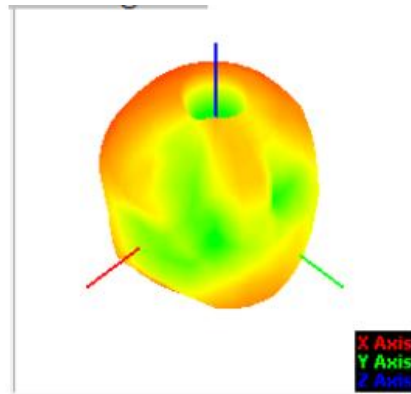
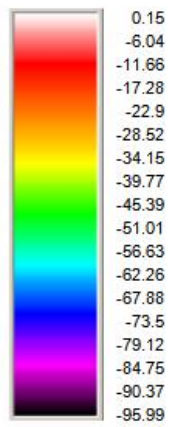
GPS-L1



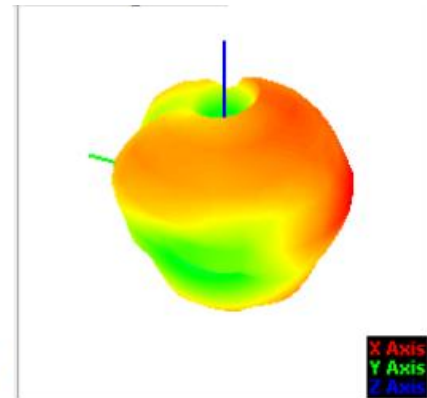
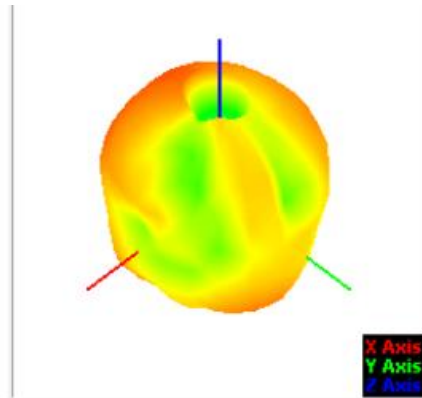
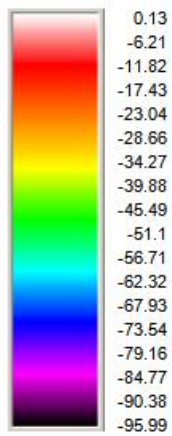
BT-2.4G



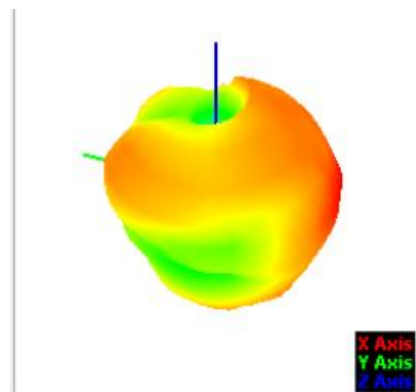
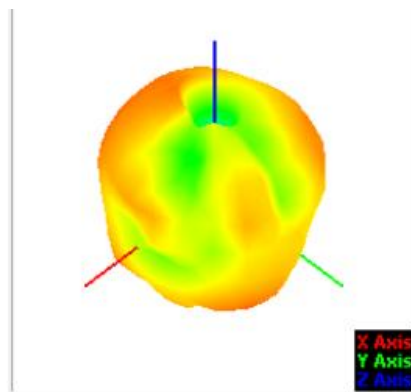
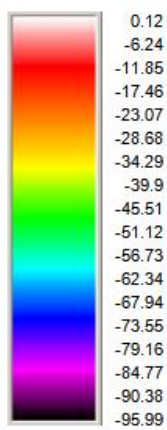
2.4G-WIFI



WIFI-5.1G



WIFI-5.8G



8.Introduction to Antenna Information

E66F1-4G	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G DIV ANTENNA(<u>PIFA</u>):2G/3G/4G GPS/WIFI/BT ANTENNA(<u>PIFA</u>):GPS-L1/WIFI-2.4G/WIFI-5.8G/BT-2.4G
Antenna materia	FPC