

**ShenZhen QiXinTongDa Technology Co.,Ltd.**

# **Antenna Test Report**

**Project Name:** S67B1

**Frequency Band:**

G2/3/5/8+W1/2/4/5/8+

FDD1/2/3/4/5/7/8/12/13/17/20/28/66+TDD38

**DATE:** 2024-02-27

# 1.Test Project

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

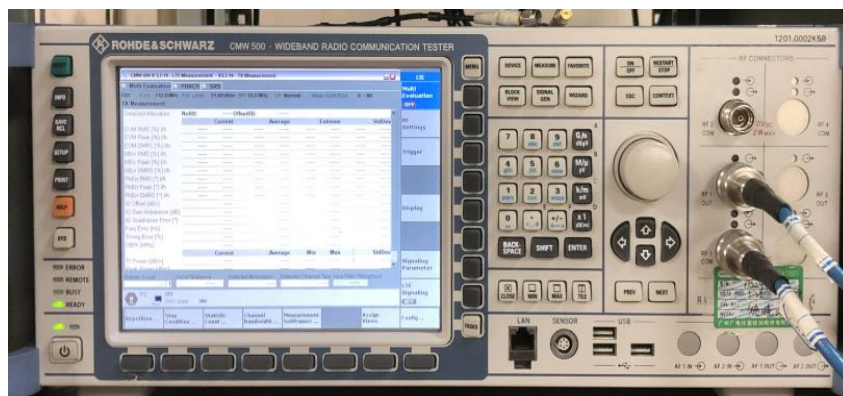
## 2. Test Equipment



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

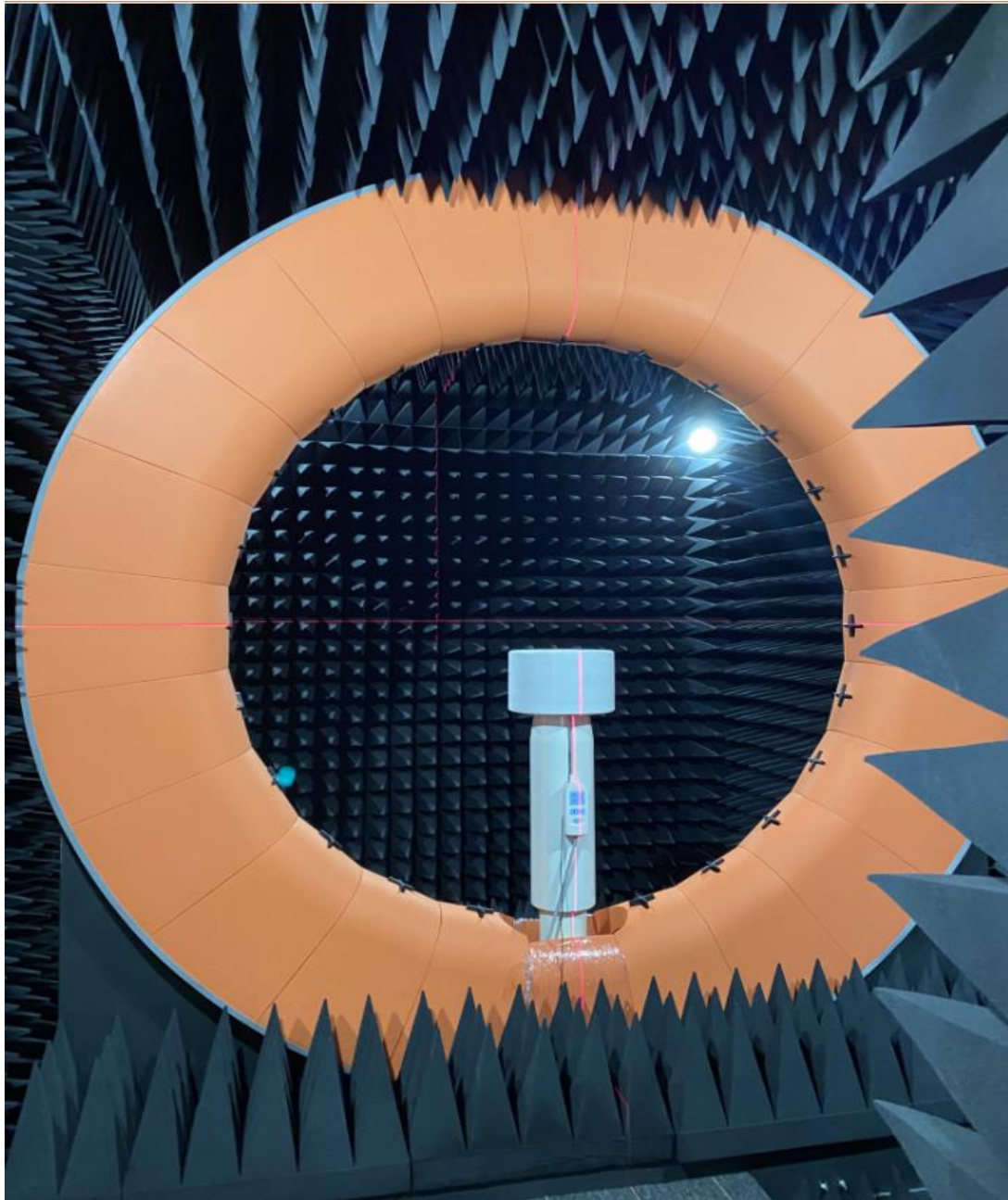


Agilent 8960 (2G/3G Test Equipment)



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

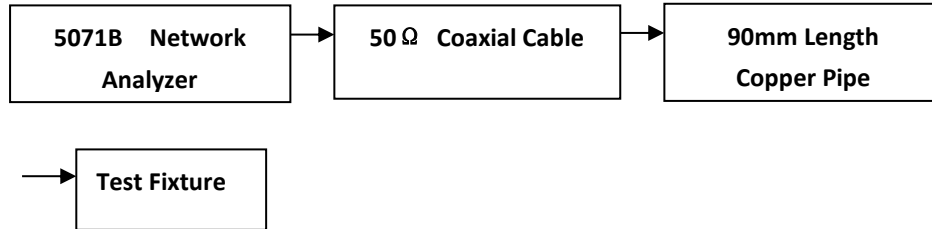
### 3. TestEnvironment



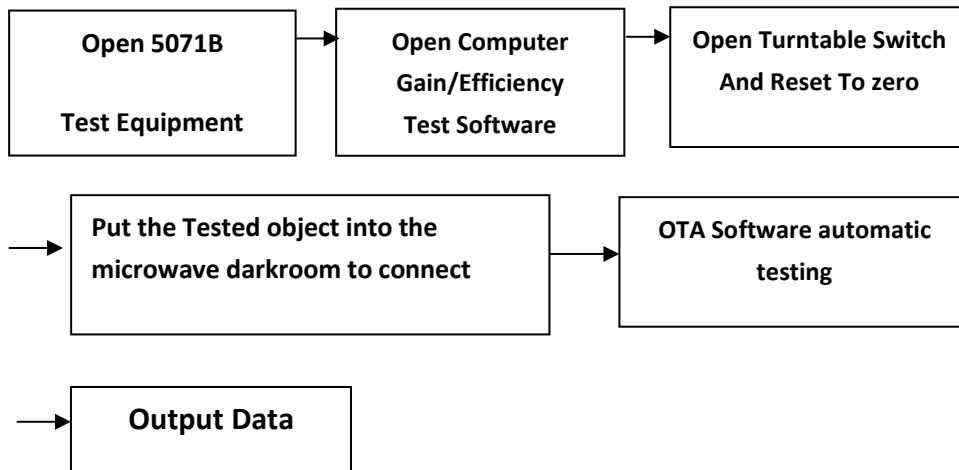
Microwave Anechoic Chamber

# 4. Test Steps

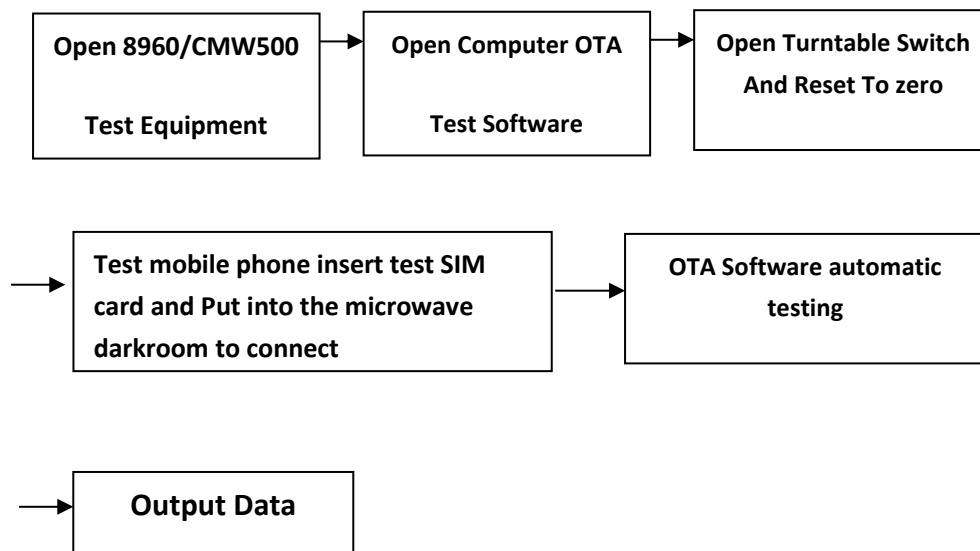
## Passive VSWR/RL Test Steps:



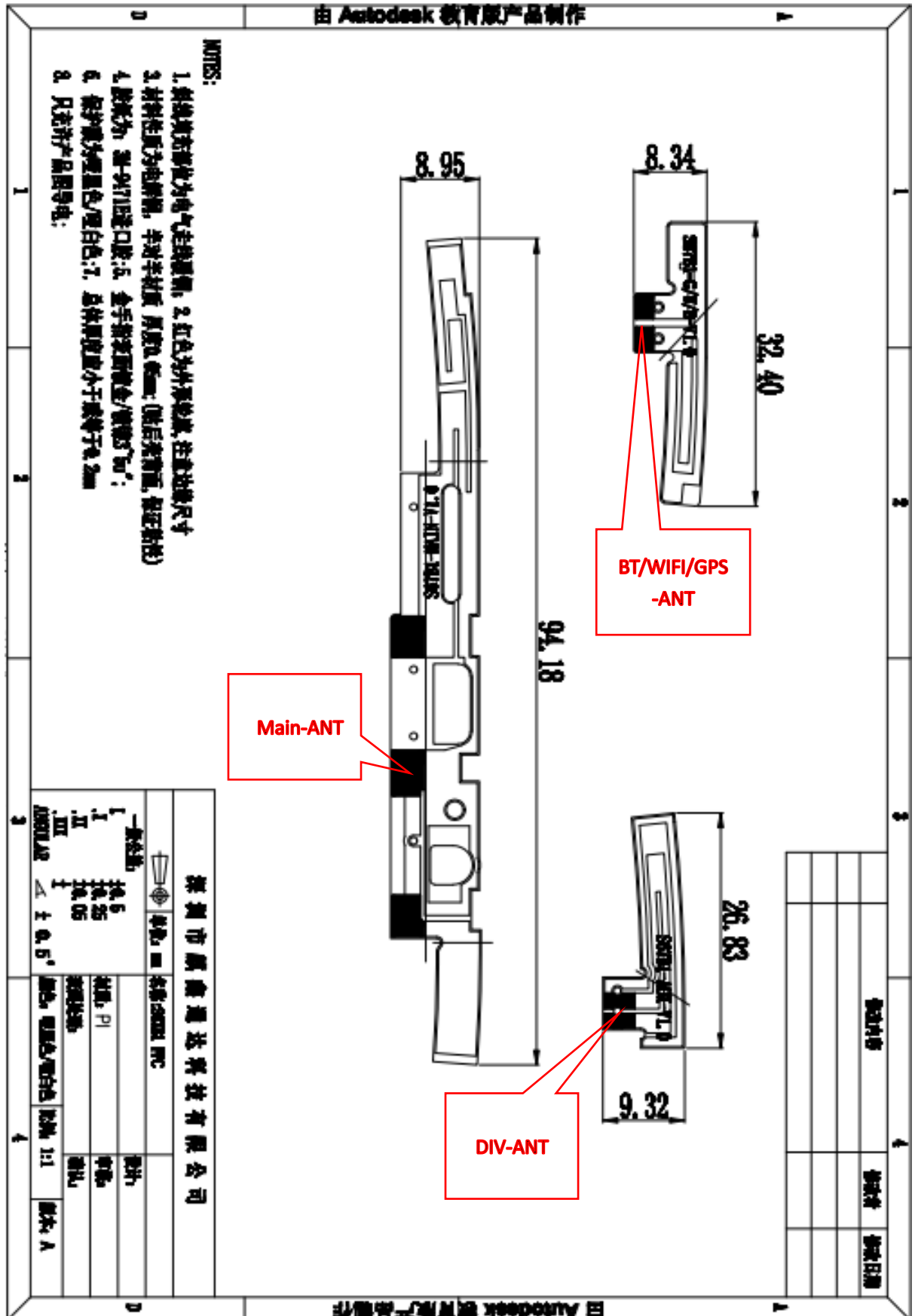
## Gain/Efficiency Test Steps:



## Active TRP/TIS Test Steps:



# 5. Antenna Dimensions



## 6.Introduction to Antenna Information

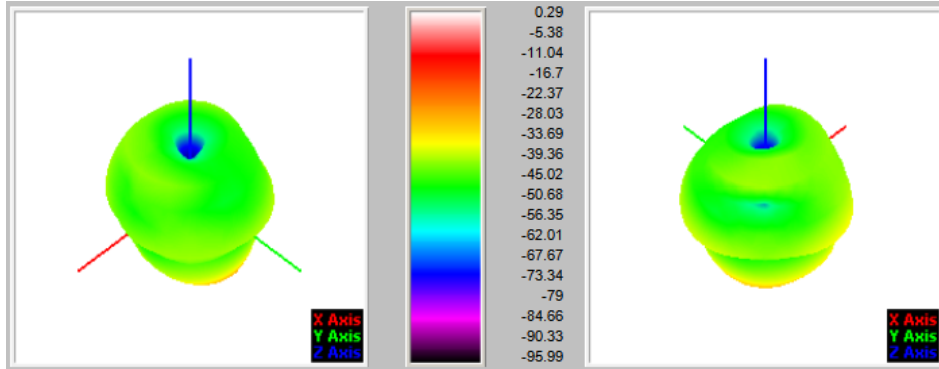
S67B1	
Antenna type and frequency band	MAIN ANTENNA ( <a href="#">PIFA</a> ) : 2G/3G/4G (G2/3/5/8+W1/2/4/5/8+ FDD1/2/3/4/5/7/8/12/13/17/20/28/66+TDD38) DIV ANTENNA ( <a href="#">PIFA</a> ) : 2G/3G/4G GPS/WIFI/BT ANTENNA ( <a href="#">PIFA</a> ) : L1/2. 4G/5GWIFI/BT
Antenna materia	FPC

## 7.Antenna Gain

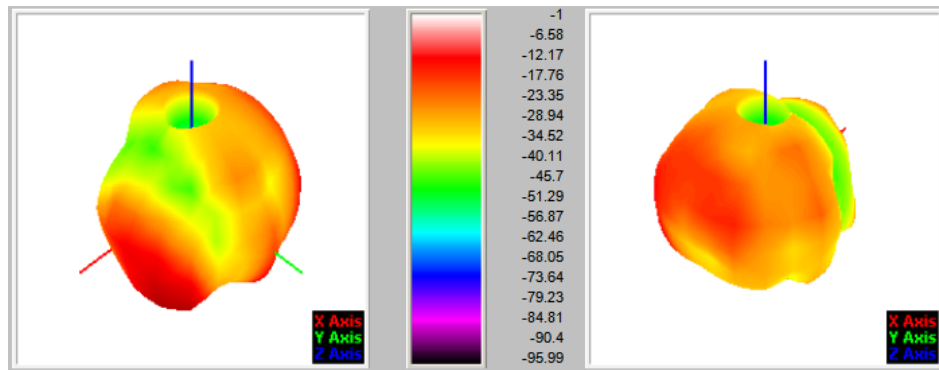
Band	Max Gain	Band	Max Gain
GSM850	-2.3	BAND 20	-2.3
GSM900	-2.2	BAND 28	-2.8
DCS1800	0.4	BAND 66	0.4
PCS1900	0.3	BAND 38	-0.6
WCDMA2100	0.2		
WCDMA1900	0.3	GPS	1.4
WCDMA1700	0.4	2.4GWIFI	0.29
WCDMA850	-2.3	BT	0.29
WCDMA900	-2.2	WIFI-5.17-5.25G	-1
BAND 1	0.2	WIFI-5.25-5.30G	-0.67
BAND 2	0.3	WIFI-5.49-5.74G	0.38
BAND 3	0.4	WIFI-5.74-5.84G	-0.68
BAND 4	0.4		
BAND 5	-2.3		
BAND 7	-0.6		
BAND 8	-2.2		
BAND 12	-2.8		
BAND 13	-2.6		
BAND 17	-2.8		

# 8.3D Lobe Diagram

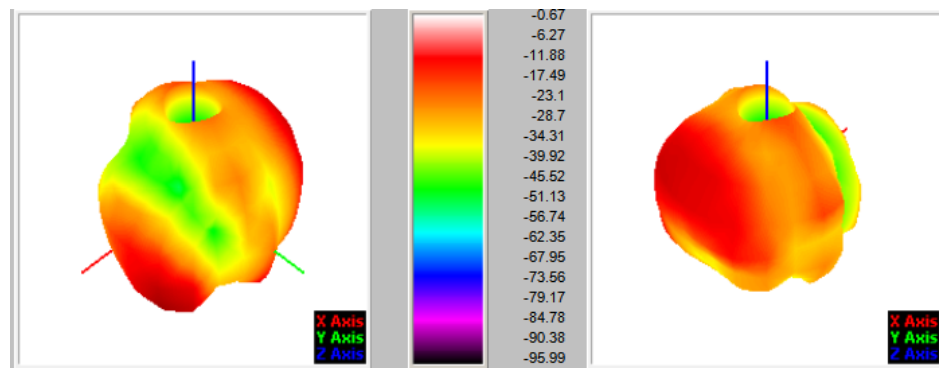
2.4G-WIFI/BT



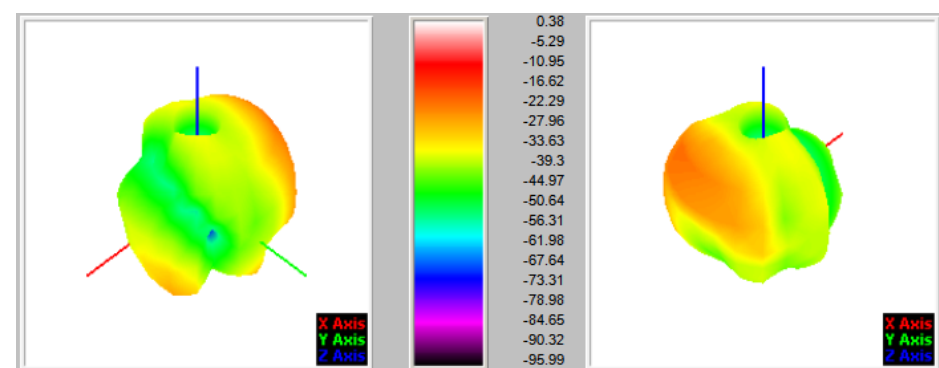
WIFI-5.17-5.25G



WIFI-5.25-5.30G

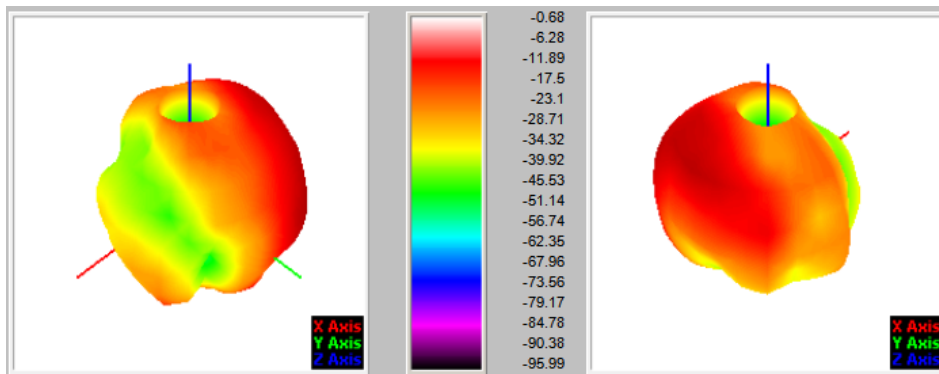


WIFI-5.49-5.74G



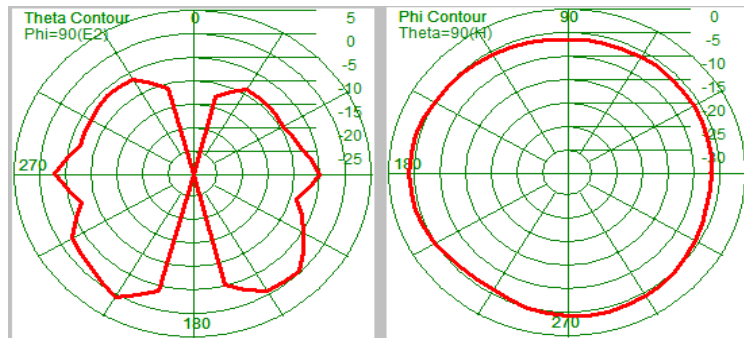


WIFI-5.74-5.84G

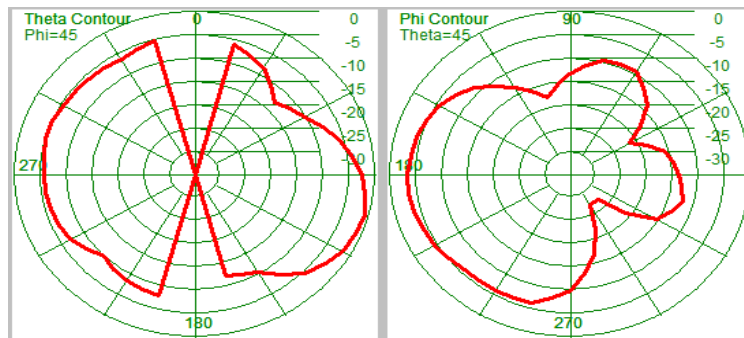


## 9.2D Lobe Diagram

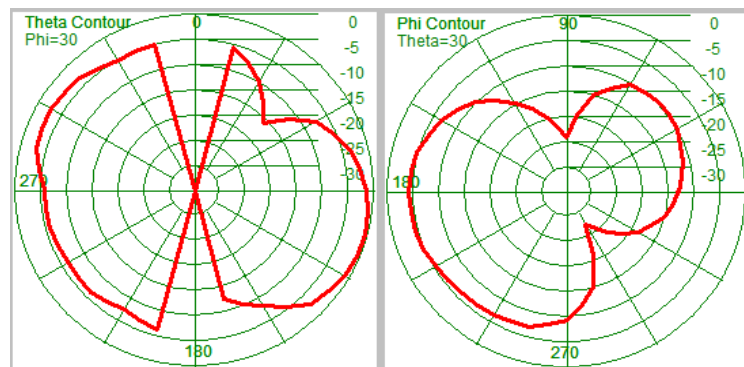
2.4G-WIFI/BT



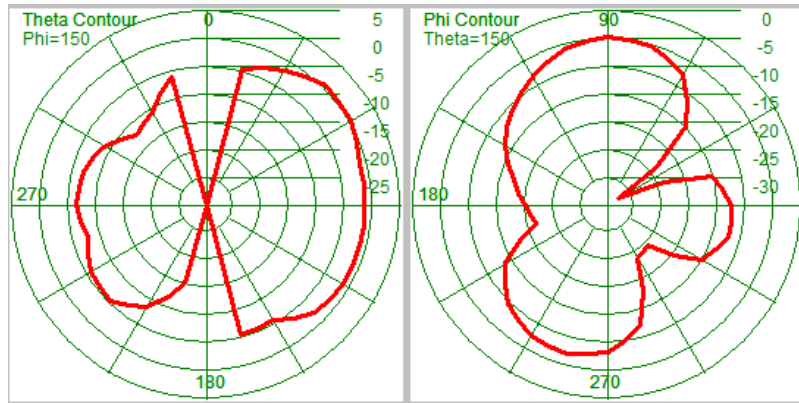
WIFI-5.17-5.25G



WIFI-5.25-5.30G



WIFI-5.49-5.74G



WIFI-5.74-5.84G

