

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

# **Antenna Test Report**

**Client Name: OUQI**

**Project Name: S98D-4G**

**Frequency Band: GSM B2/3/5/8+WCDMA B1/2/4/  
5/8+FDD B1/3/5/7/8/19/20+TDD B34/38/39/40/41**

**RF: LI HAI LONG (137 6025 5827)**

**日期: 2023 年 09 月 22 日**

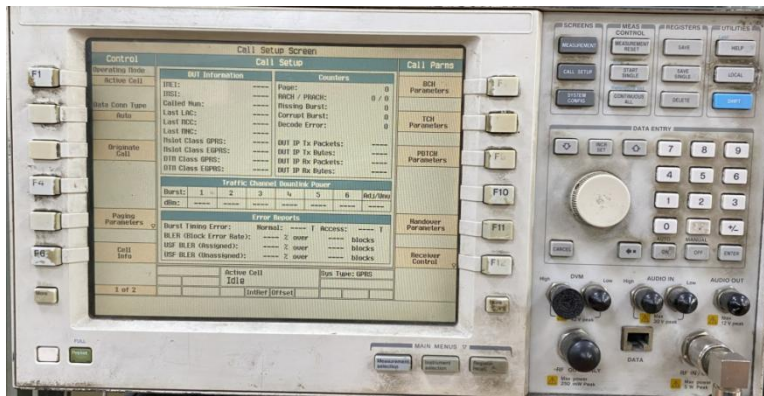
# 1.Test Project

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

## 2. Test Equipment



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

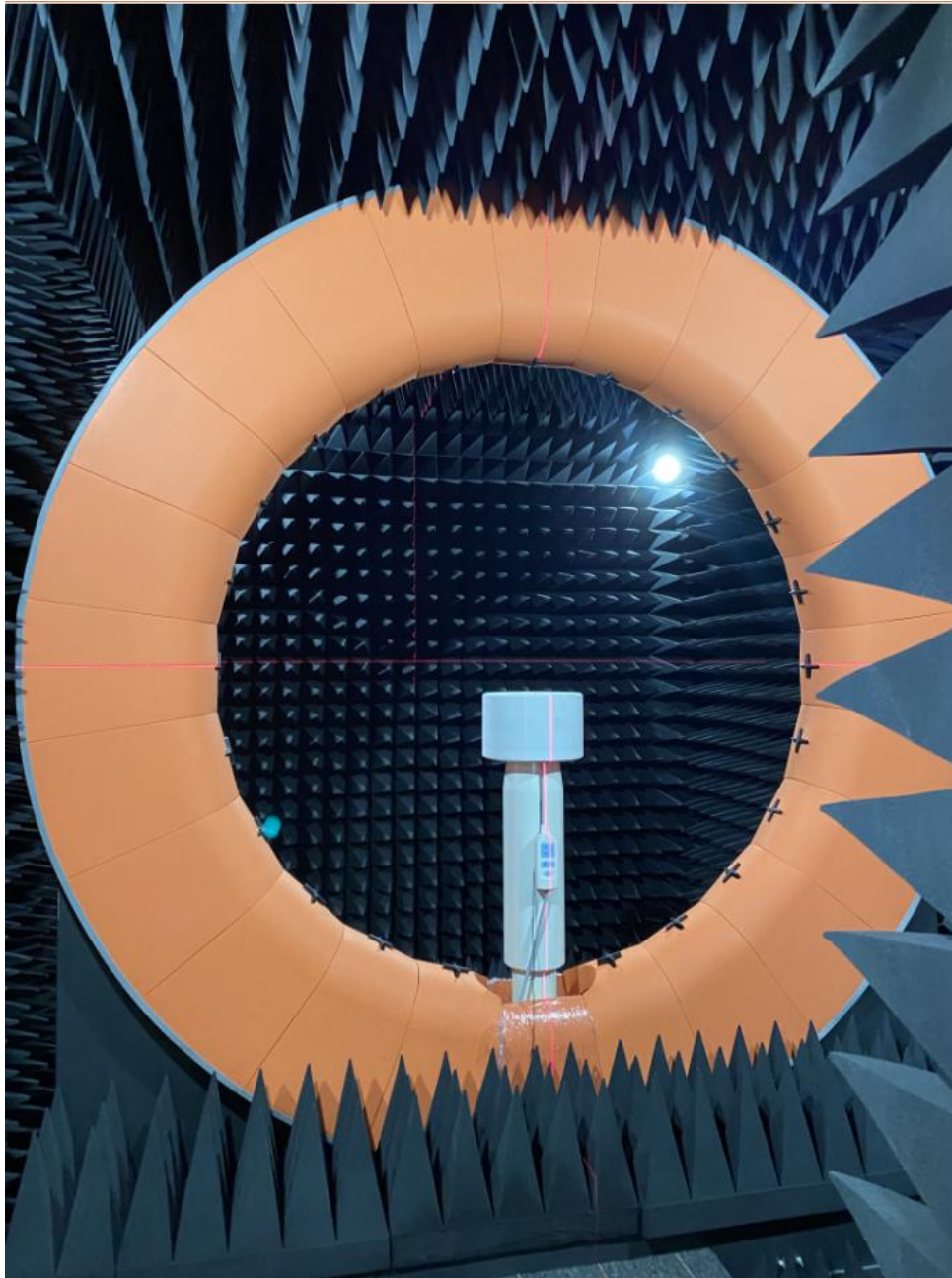


Agilent 8960 (2G/3G Test Equipment)



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

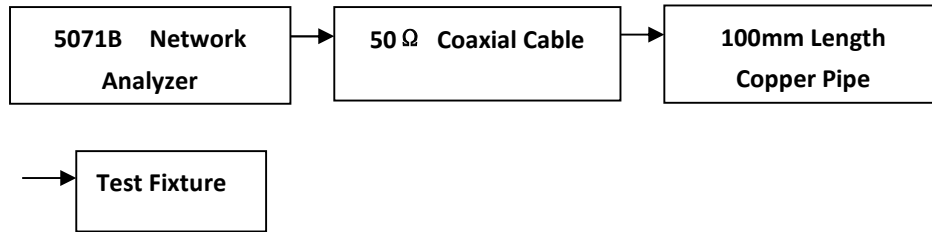
### 3. TestEnvironment



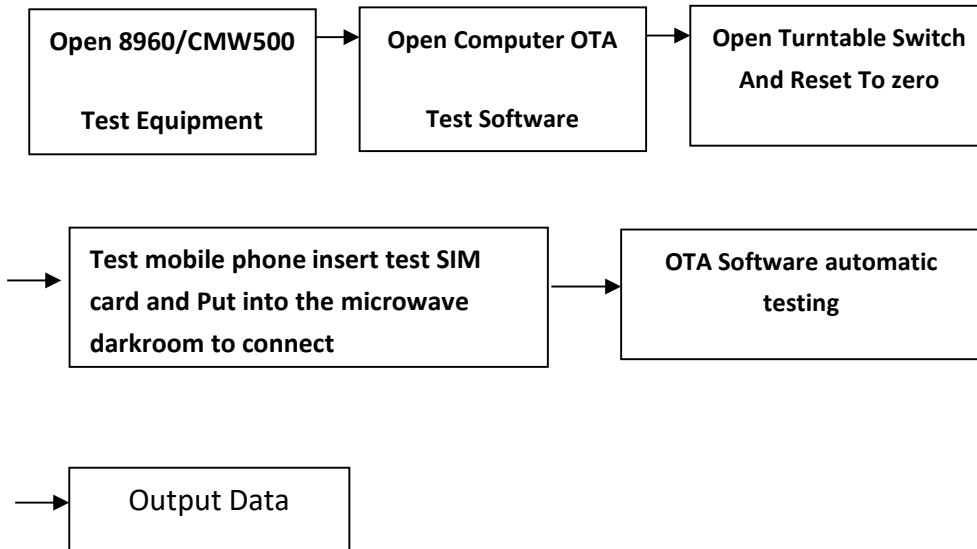
**Anechoic Chamber**

# 4. Test Steps

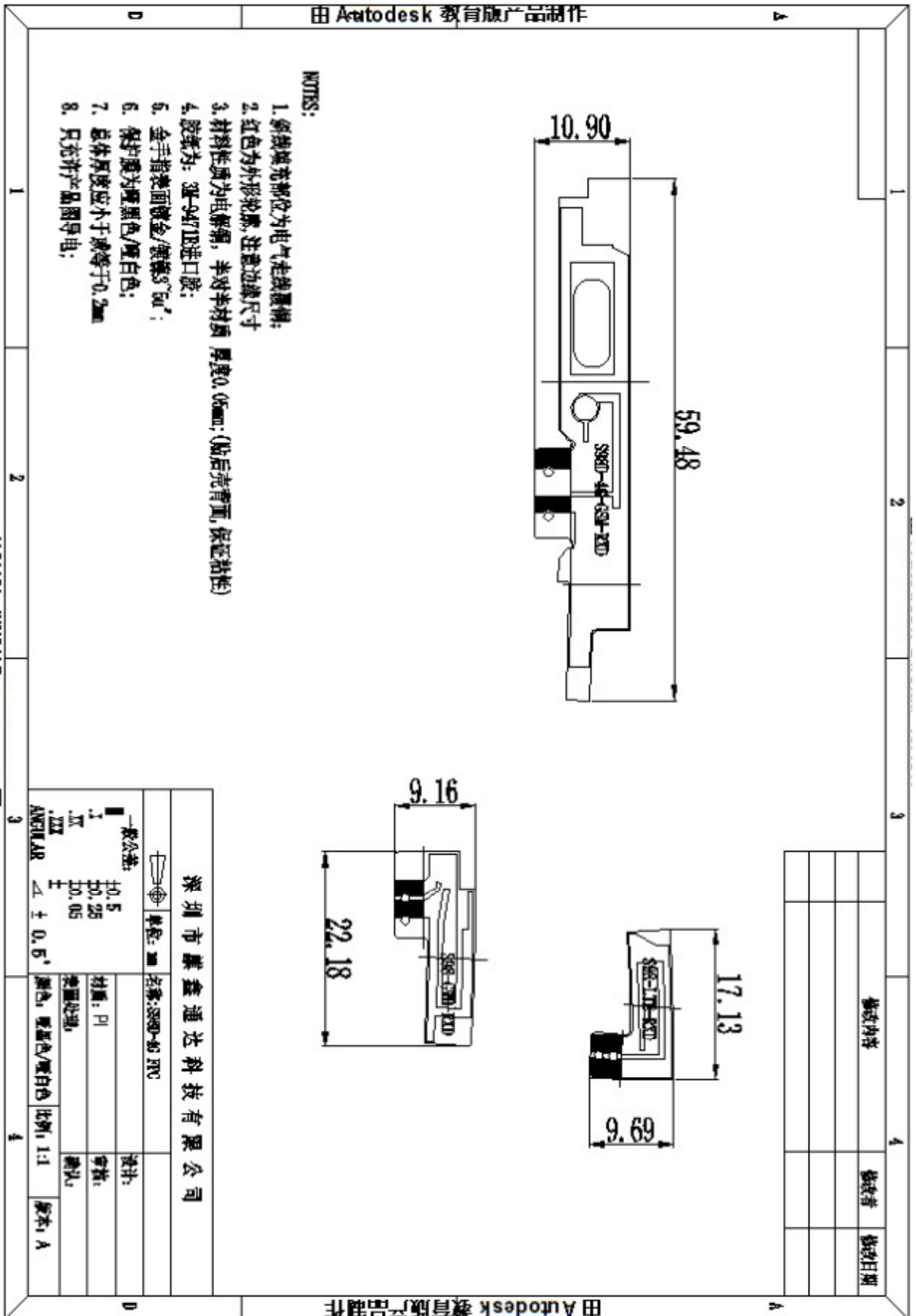
## Passive VSWR/RL Test Steps:



## Active TRP/TIS Test Steps:



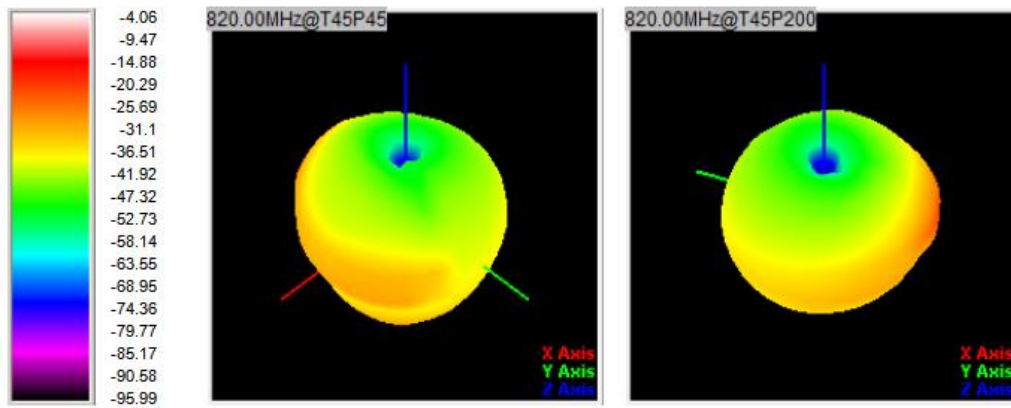
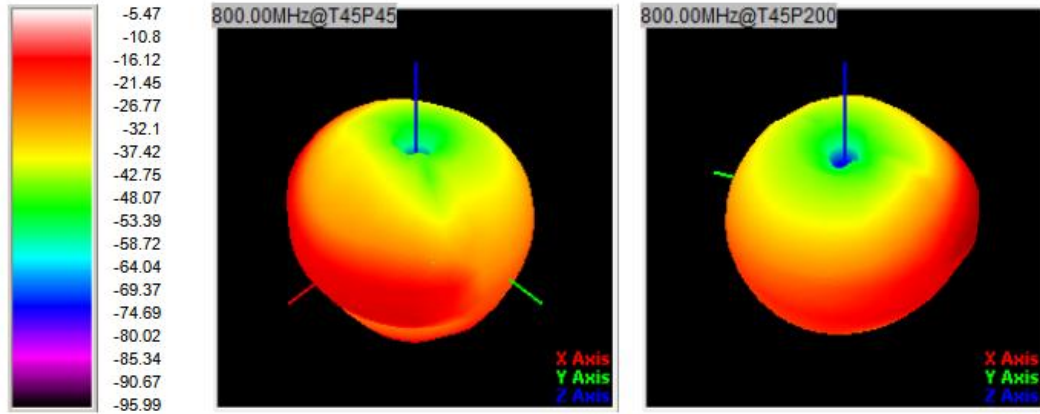
# 5. Antenna Dimensions



## 6. Antenna Gain

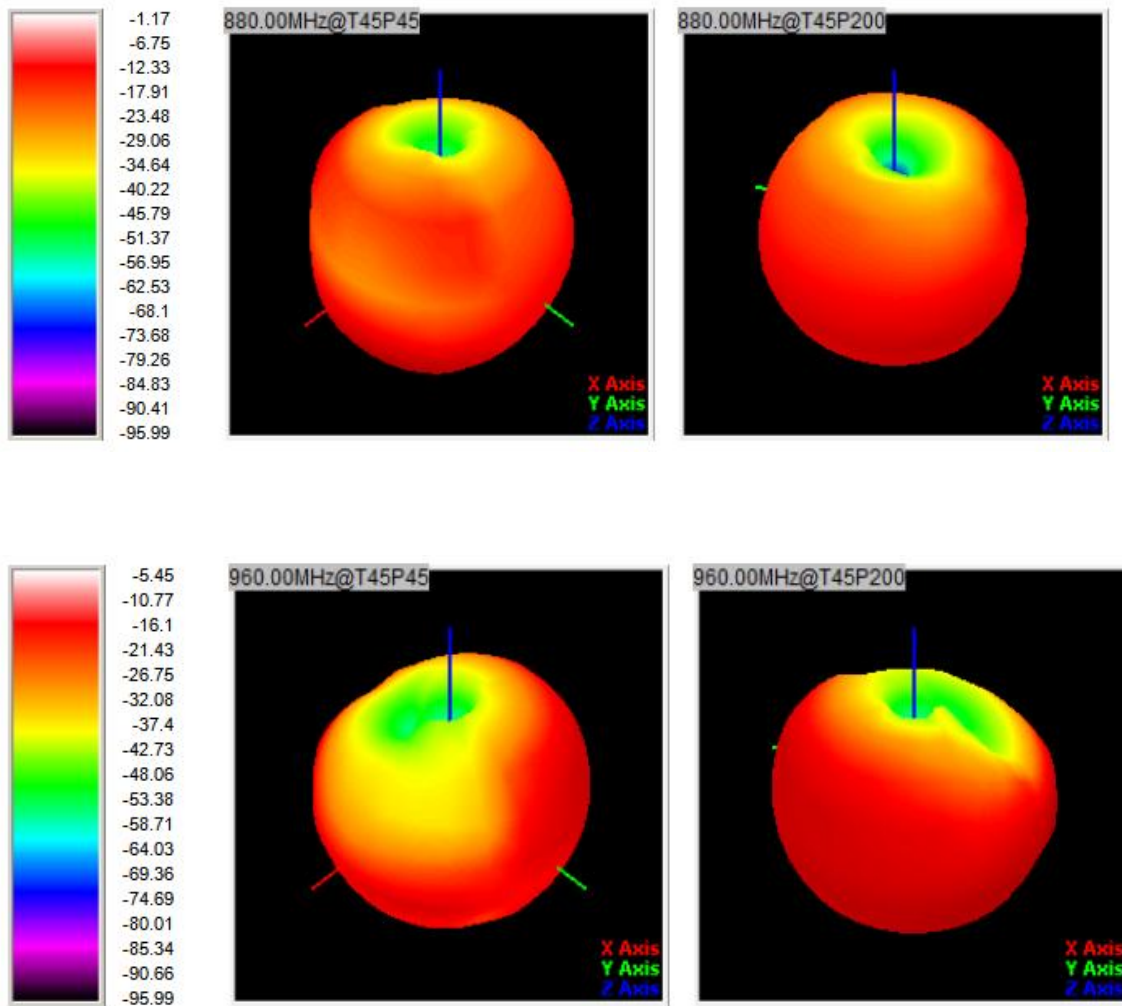
| Frequency Band           | Gain (dBi) |
|--------------------------|------------|
| GSM850 (824-894MHz)      | -2.35      |
| GSM900 (880-960MHz)      | -1.26      |
| DCS1800 (1710-1880MHz)   | 0.15       |
| PCS1900 (1850-1990MHz)   | 0.12       |
| WCDMA850 (824-894MHz)    | -2.35      |
| WCDMA900 (880-960MHz)    | -1.26      |
| WCDMA1700 (1710-2155MHz) | 0.17       |
| WCDMA1900 (1850-1990MHz) | 0.12       |
| WCDMA2100 (1920-2170MHz) | 0.15       |
| FDD B 1 (1920-2170MHz)   | 0.16       |
| FDD B 3 (1710-1880MHz)   | 0.15       |
| FDD B 5 (824-894MHz)     | -2.35      |
| FDD B 7 (2500-2690MHz)   | 0.25       |
| FDD B 8 (880-960MHz)     | -1.26      |
| FDD B 18 (830-890MHz)    | -2.32      |
| FDD B 19 (791-862MHz)    | -2.33      |
| FDD B 20 (791-862MHz)    | -2.32      |
| TDD B 34 (2010-2025MHz)  | 0.15       |
| TDD B 38 (2570-2620MHz)  | 0.25       |
| TDD B 39 (1880-1920MHz)  | 0.20       |
| TDD B 40 (2300-2400MHz)  | 0.30       |
| TDD B 41 (2496-2690MHz)  | 0.26       |
| Bluetooth                | 0.28       |
| WIFI-2.4G                | 0.30       |
| WIFI-5G                  | 0.33       |
| GPS                      | 0.13       |

# 7. 3D Lobe Diagram (1)

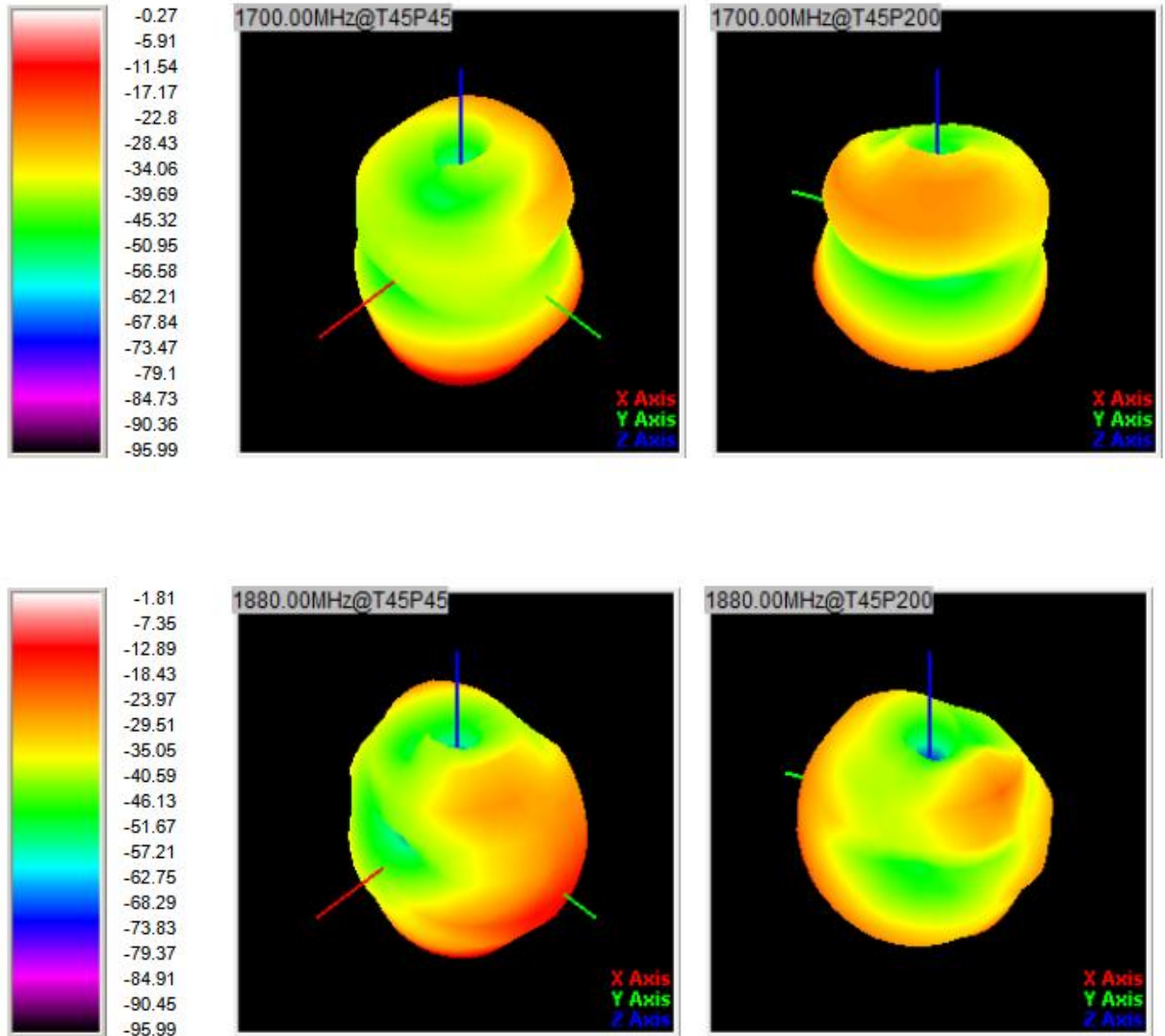




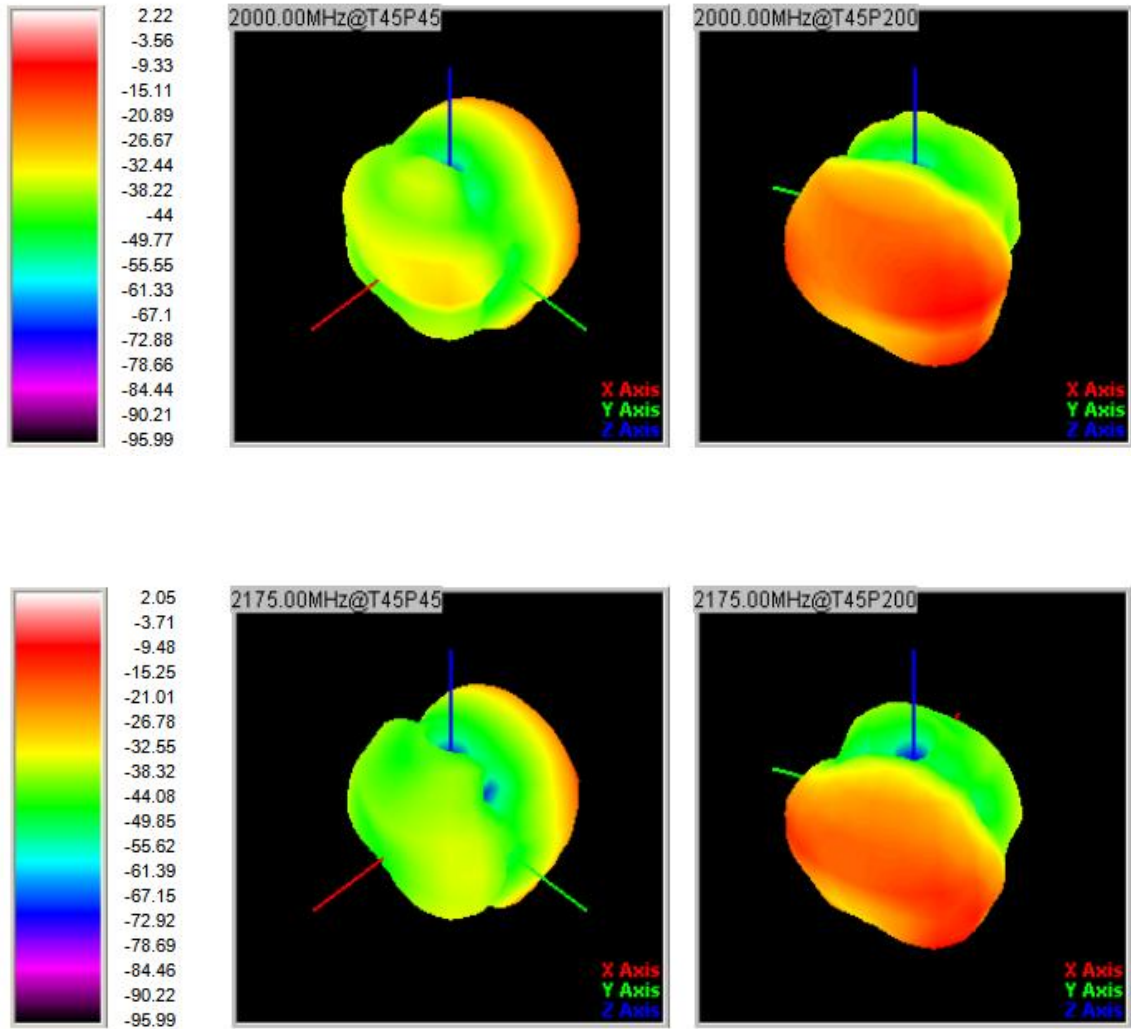
## 8. 3D Lobe Diagram (2)



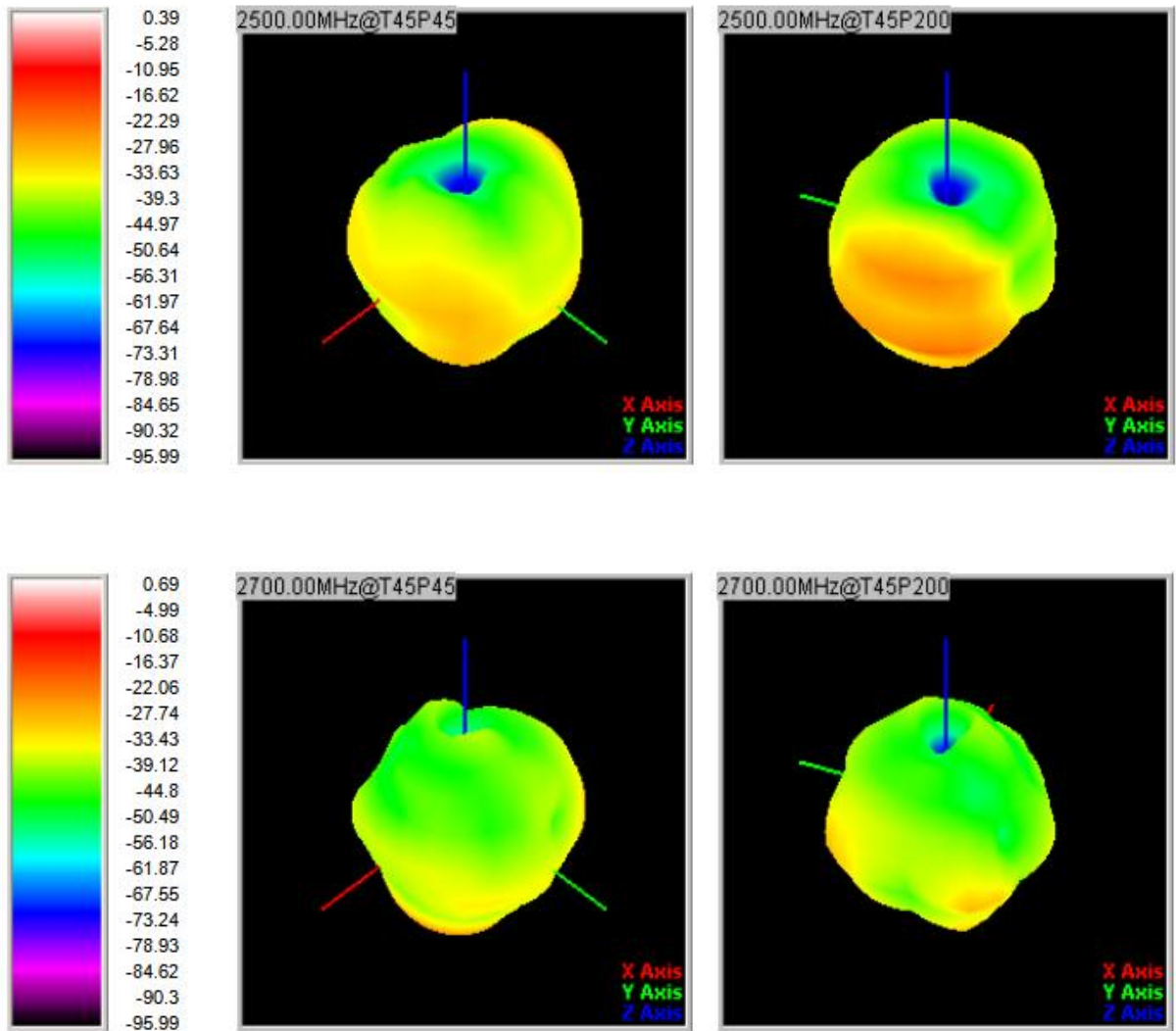
# 9. 3D Lobe Diagram (3)



# 10. 3D Lobe Diagram (4)

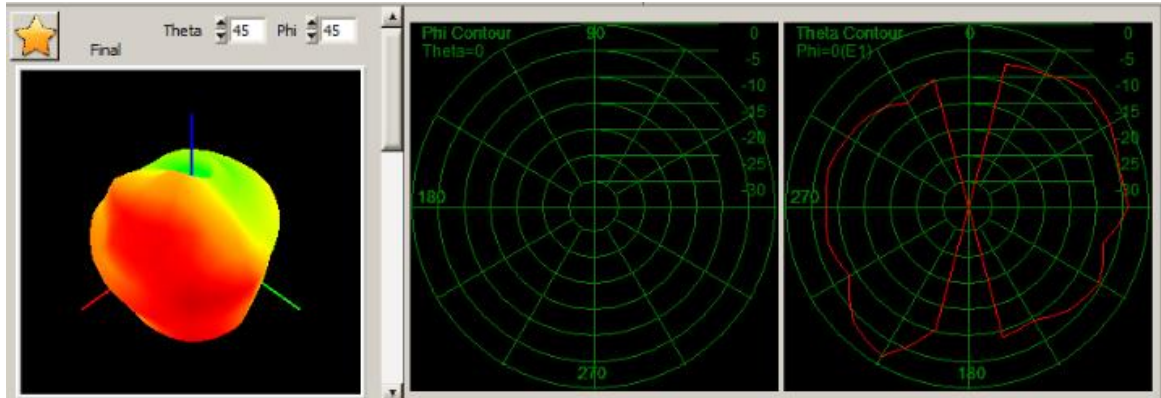


# 11. 3D Lobe Diagram (5)



# 12. 3D Lobe Diagram (6)

BT



WIFI-2.4G



WIFI-5G



# 13. 3D Lobe Diagram (7)

GPS

