

**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 B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28**

**AB/66+TDD B34/38/39/40/41**

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

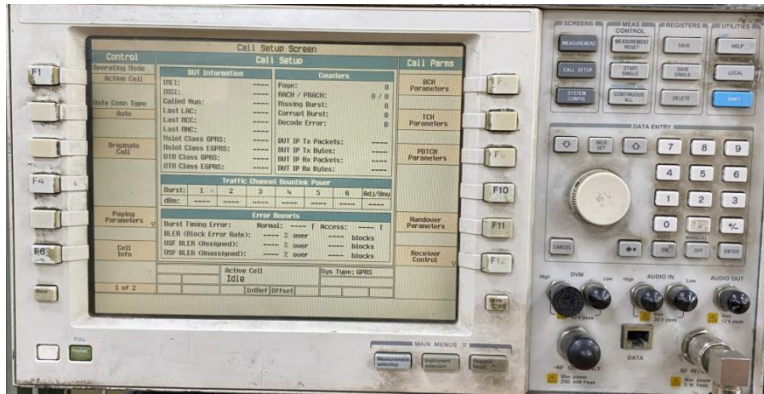
# 1.Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss (RL)  2. VSWR	Network Analyzer:  Agilent 5071B
2. RF Test  (2G+3G+4G+5G)	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)

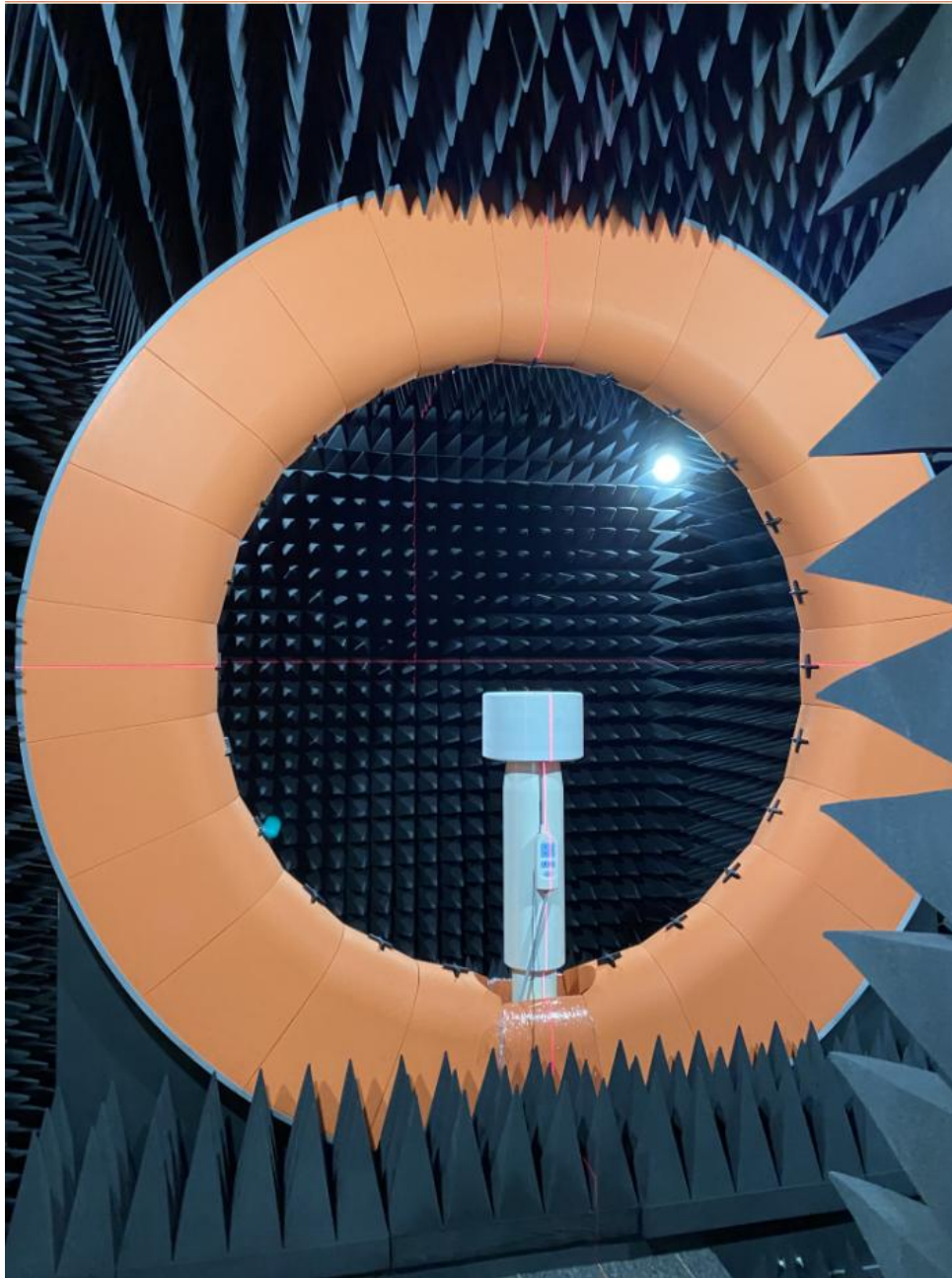


Agilent 8960 (2G/3G Test Equipment)



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

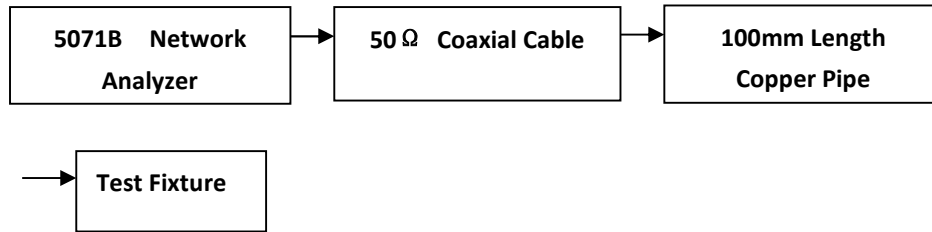
### 3. TestEnvironment



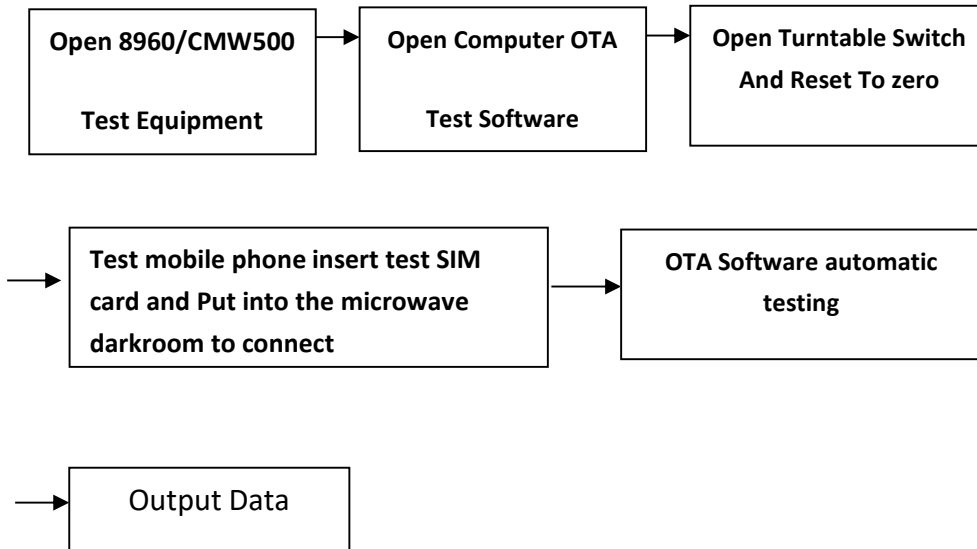
**Anechoic Chamber**

# 4. Test Steps

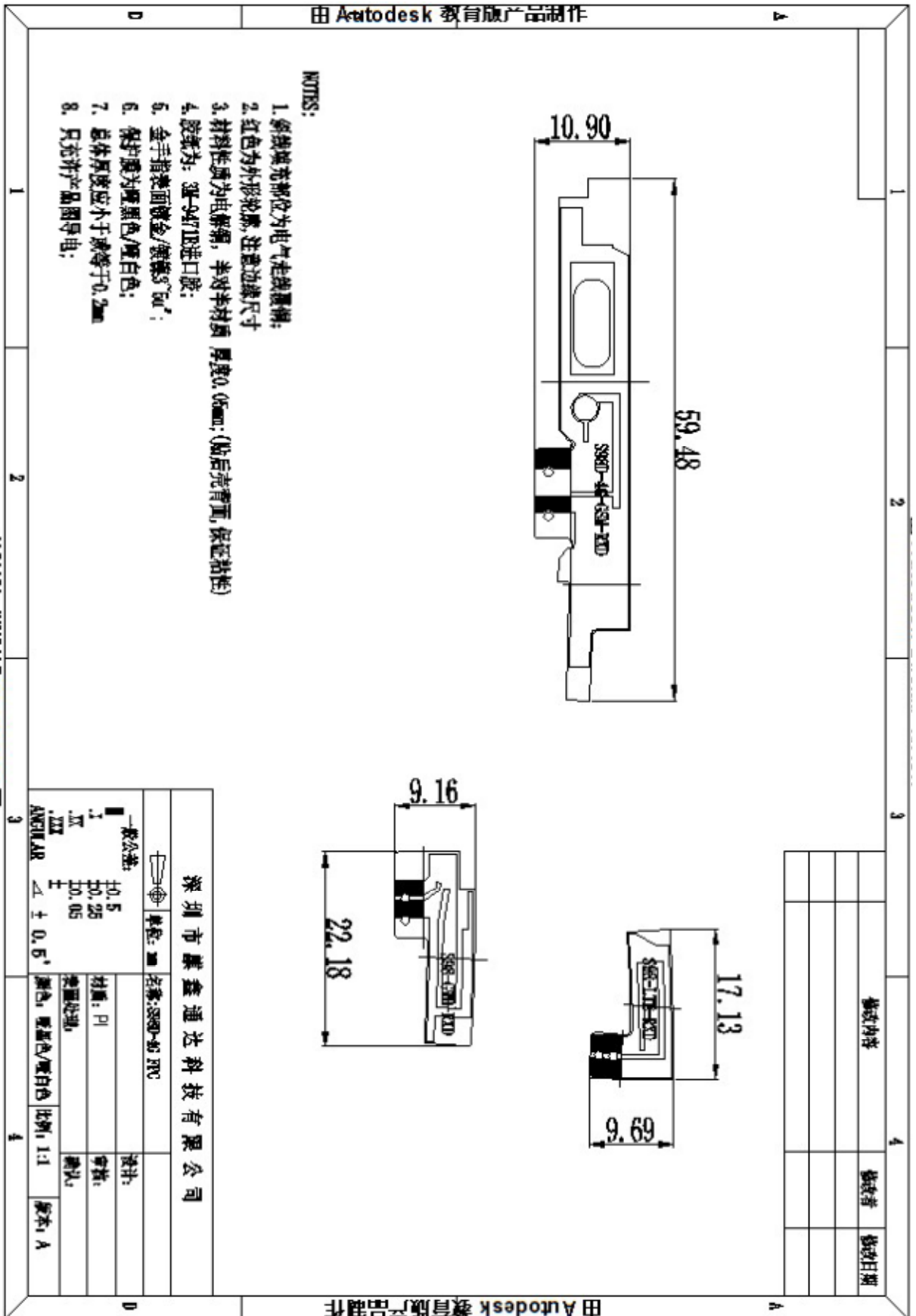
## Passive VSWR/RL Test Steps:



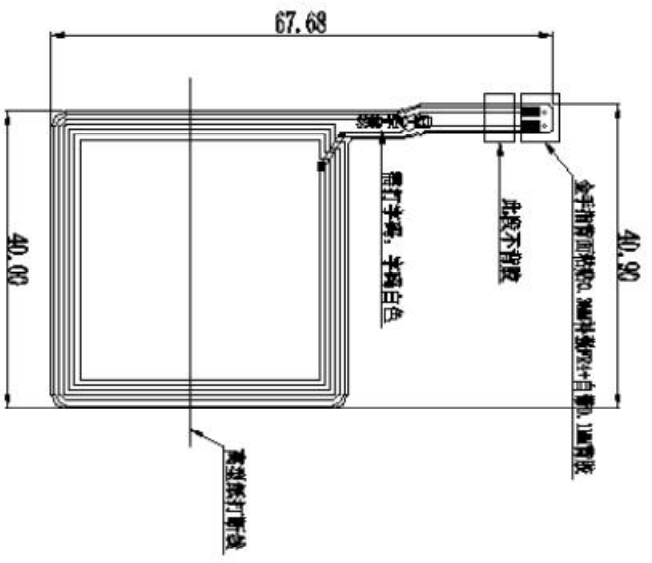
## Active TRP/TIS Test Steps:



# 5. Antenna Dimensions

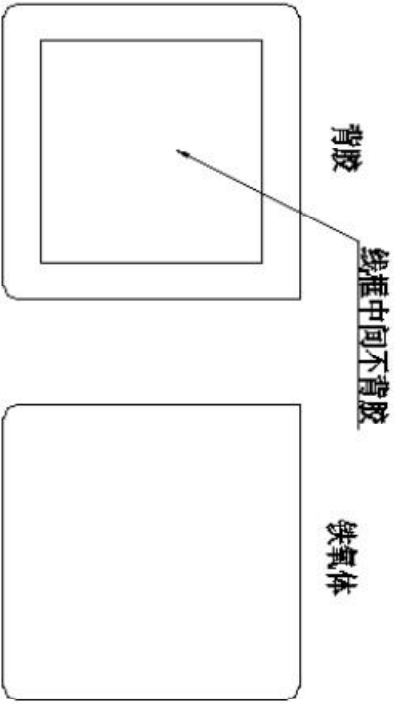


修改内容	修改者	修改日期



NOTES:

1. 斜线填充部位为电气走线覆铜;
2. 红色为外形轮廓, 注意边缘尺寸
3. 材料性质为电绝缘, 半透明材质 厚度0.05mm; (贴后亮背面, 保证粘性)
4. 胶纸为: 3M-9471E进口胶;
5. 金手指表面镀金/镀镍3~5μm;
6. 保护膜为哑黑色/哑白色;
7. 总体厚度应小于或等于0.2mm
8. 只允许产品图导电;



铁氧体贴FPC上面

深圳市顺鑫通达科技有限公司			
图号: 01	名称: S90-PCB FPC	设计:	
公差: ±0.5	单位: mm	审核:	
I ±0.25	材料: PI	确认:	
II ±0.05	表面处理:		
III ±	颜色: 哑黑色/哑白色	比例: 1:1	版本: A
ANGULAR	± 0.5°		

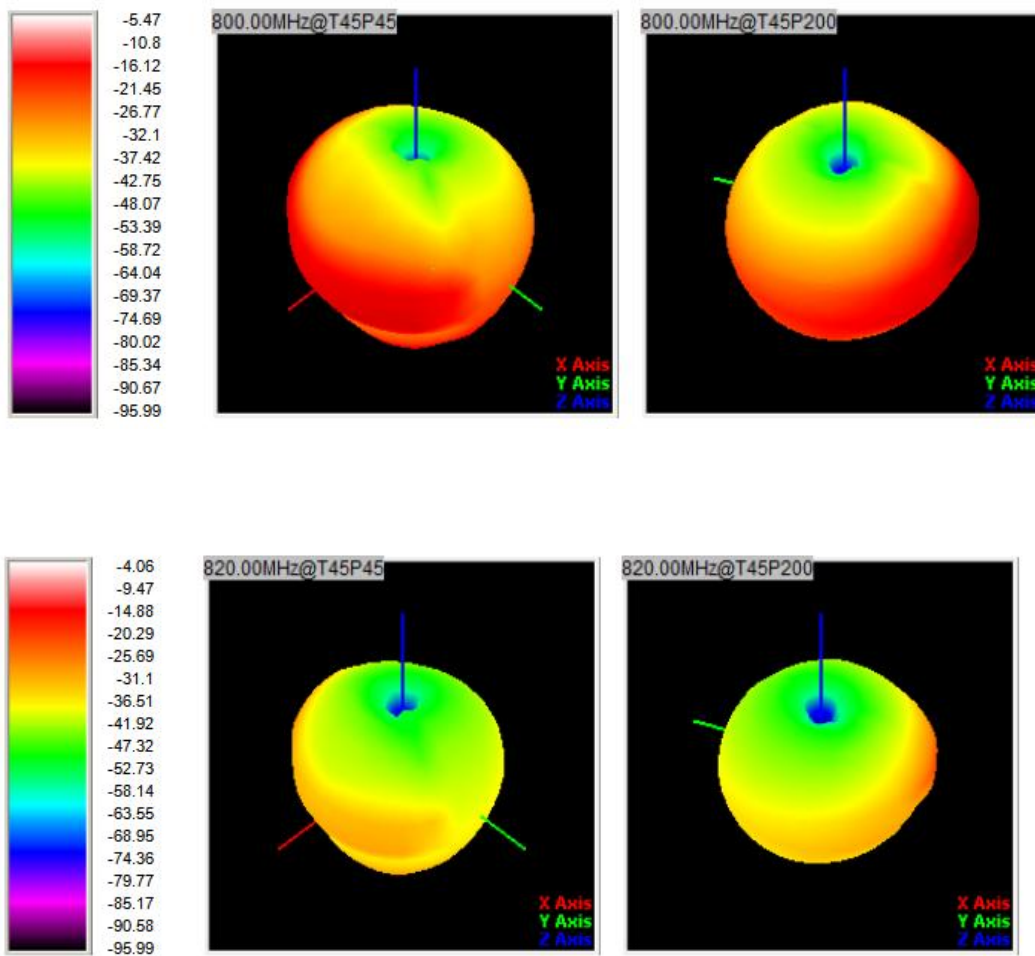
## 6. Antenna Gain

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 2 (1850-1990MHz)	0.12
FDD B 3 (1710-1880MHz)	0.15
FDD B 4 (1710-2155MHz)	0.18
FDD B 5 (824-894MHz)	-2.35
FDD B 7 (2500-2690MHz)	0.25
FDD B 8 (880-960MHz)	-1.26
FDD B 12 (699-746MHz)	-2.58
FDD B 17 (704-746MHz)	-2.56
FDD B 18 (815-875MHz)	-2.32
FDD B 19 (830-890MHz)	-2.33
FDD B 20 (791-862MHz)	-2.32
FDD B 25 (1850-1995MHz)	0.15
FDD B 26 (814-894MHz)	-2.30
FDD B 28 (703-803MHz)	-2.45
FDD B 66 (1700-2200MHz)	0.20

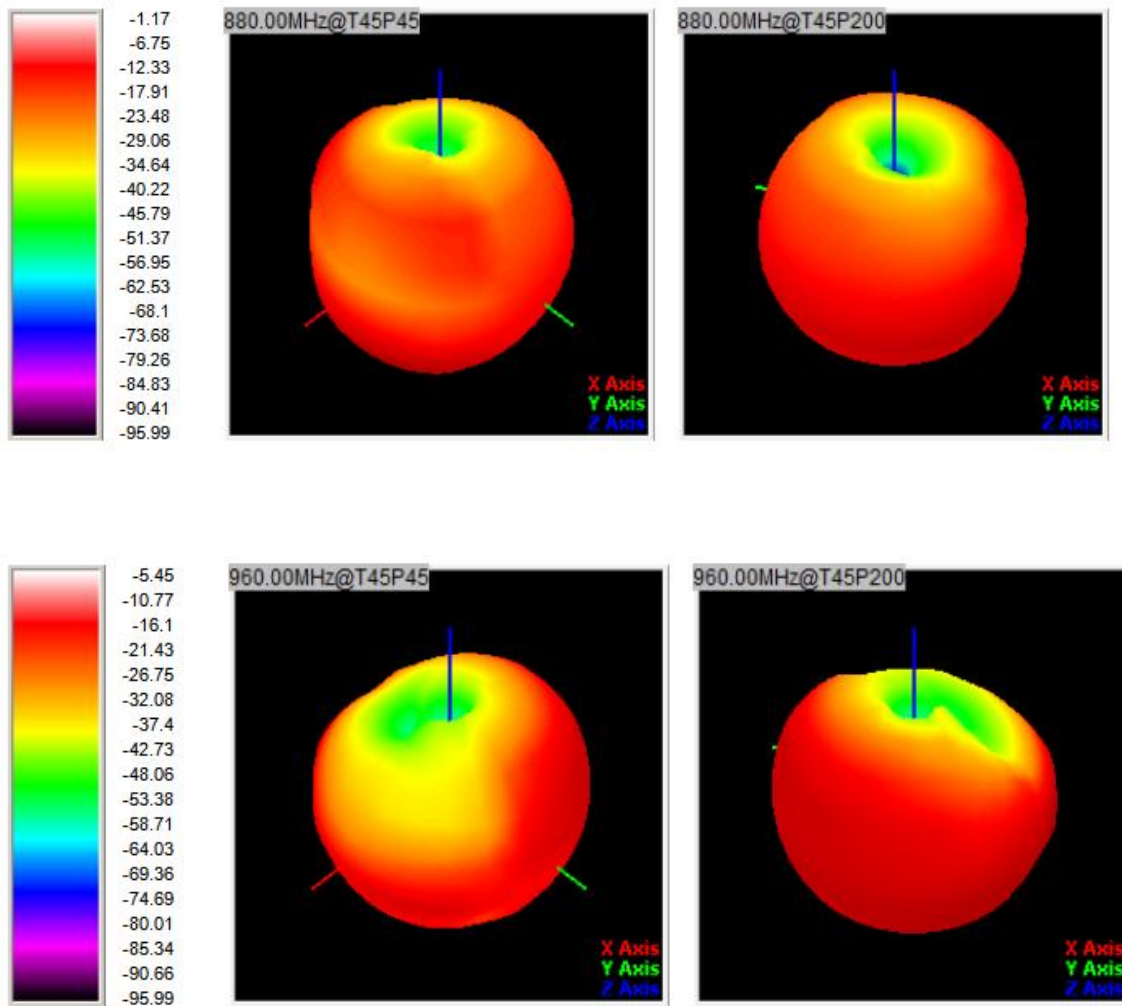


TDD B 34 (2010-2025MHz)	0.28
TDD B 38 (2570-2620MHz)	0.25
TDD B 39 (1880-1920MHz)	0.20
TDD B 40 (2300-2400MHz)	0.30
TDD B 41 (2496-2690MHz)	0.26

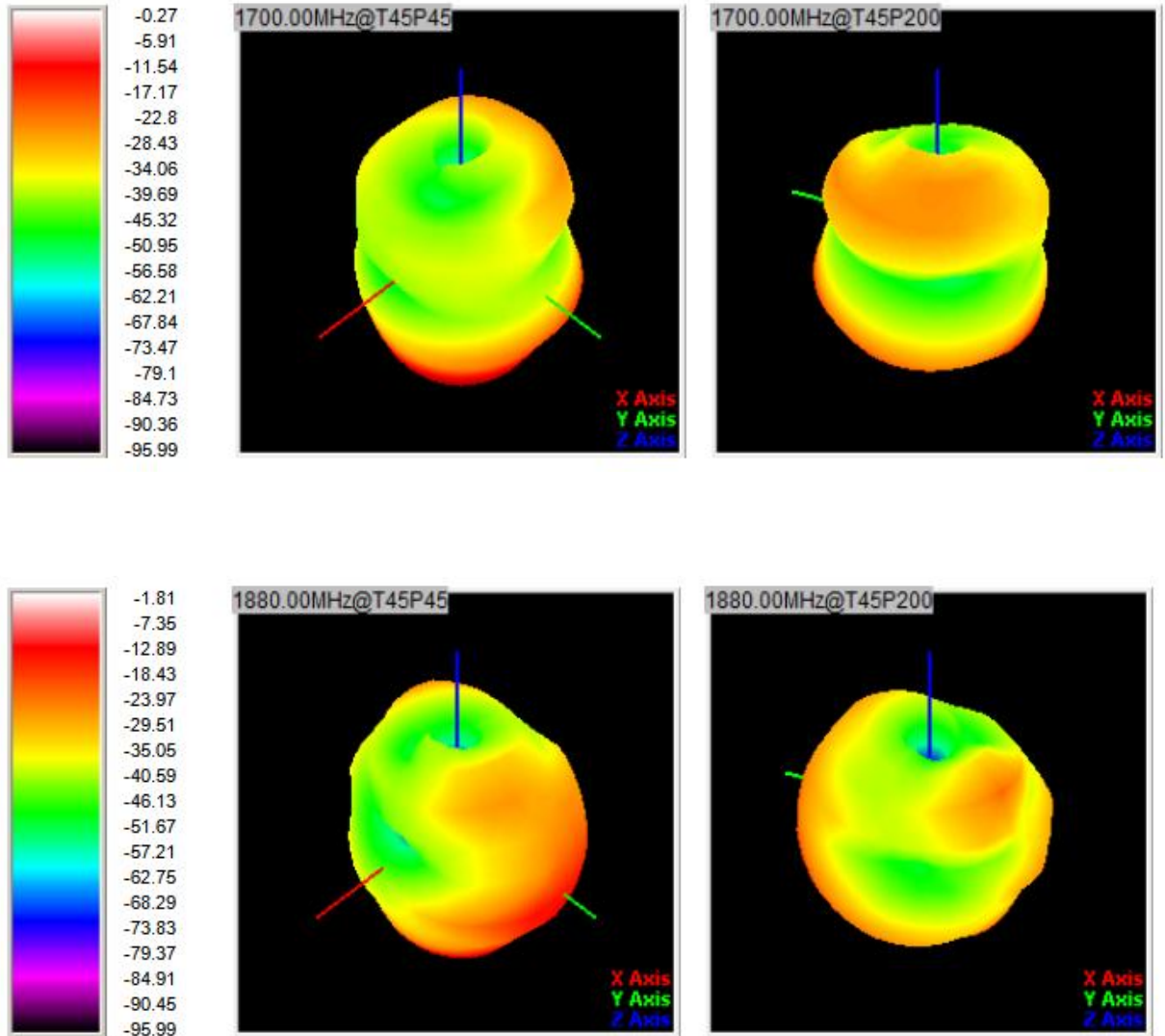
## 7. 3D Lobe Diagram (1)



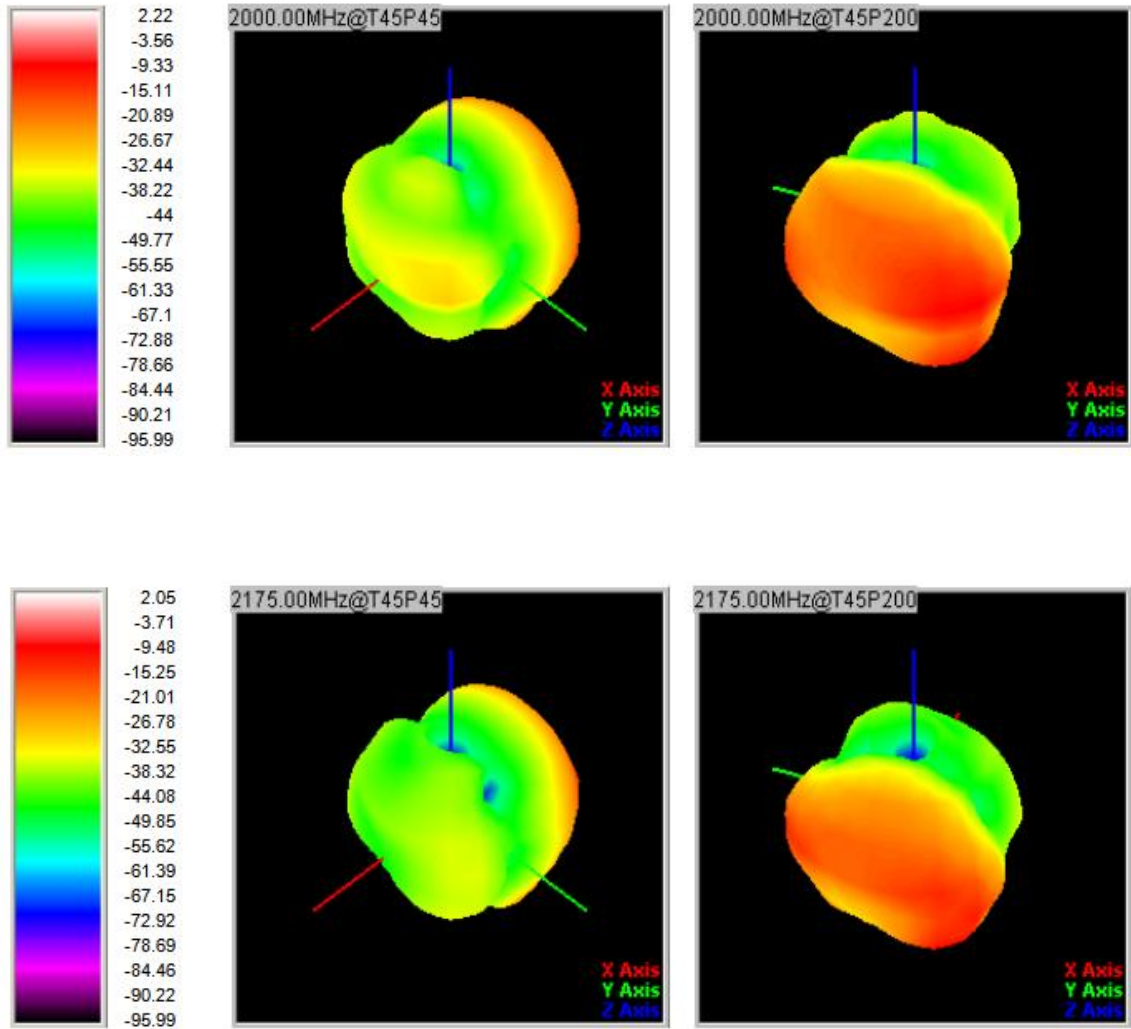
## 8. 3D Lobe Diagram (2)



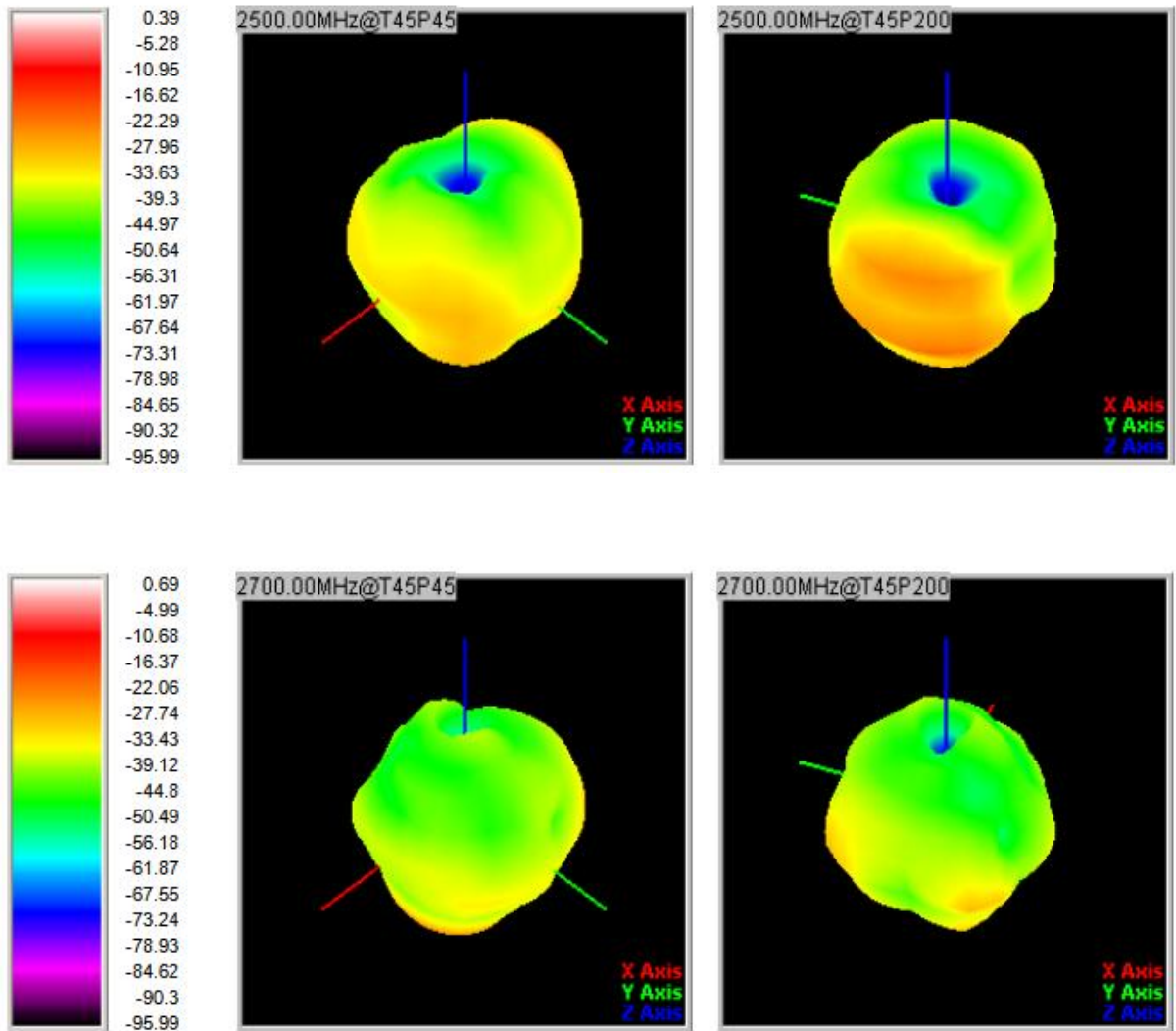
# 9. 3D Lobe Diagram (3)



# 10. 3D Lobe Diagram (4)



## 11. 3D Lobe Diagram (5)



## 12. NFC test data

Reader mode	Type1	32mm
	Type2	20mm
	Type3	32mm
	Type4	20mm
	Type5	38mm