

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: VL68

FrequencyBand:

2G: 850/900/1800/1900

3G: W2/4/5

4G: B2/4/5/12/13/14/17/25/26/41/66/71

DATE: 2025-7-11

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)

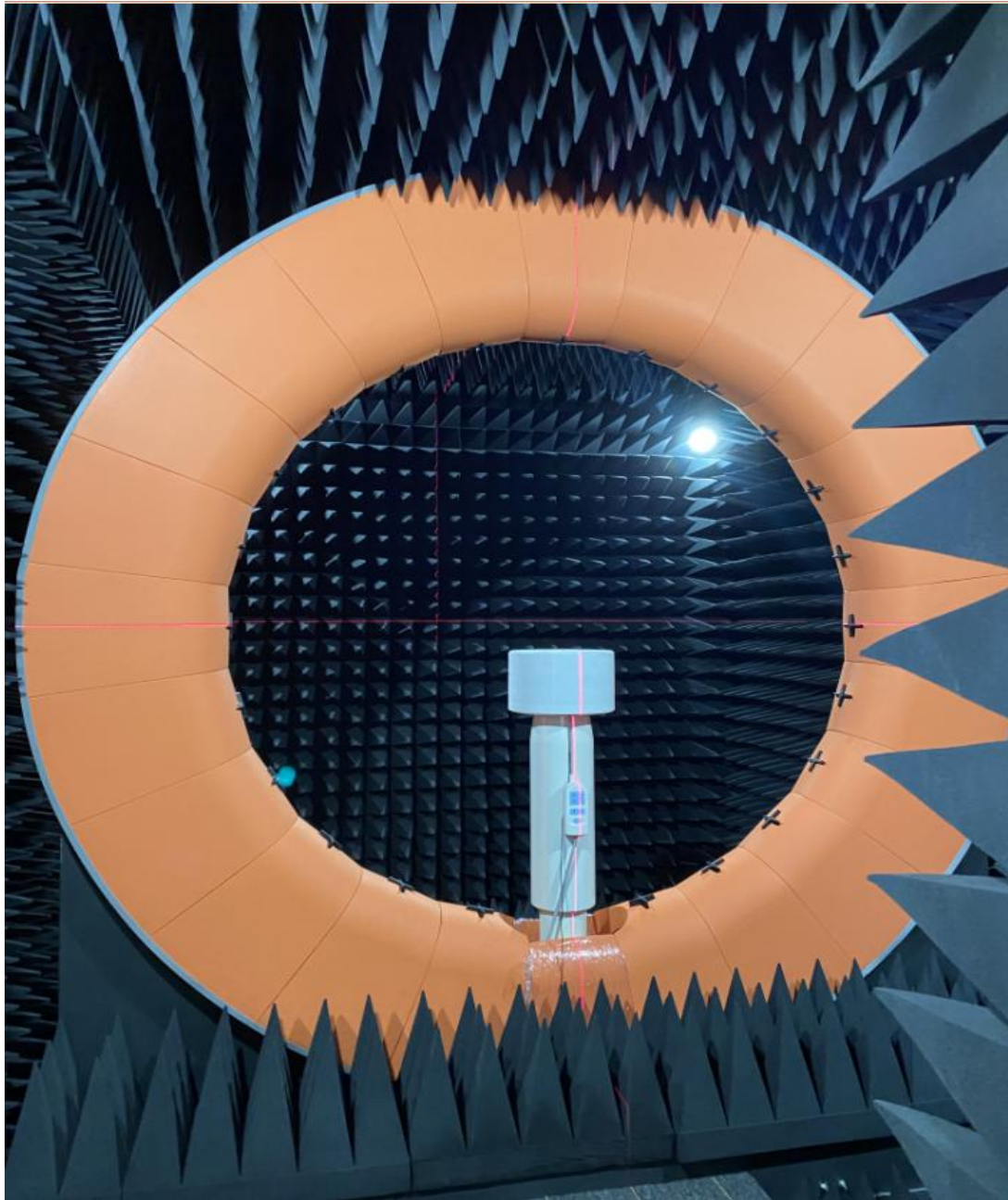


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

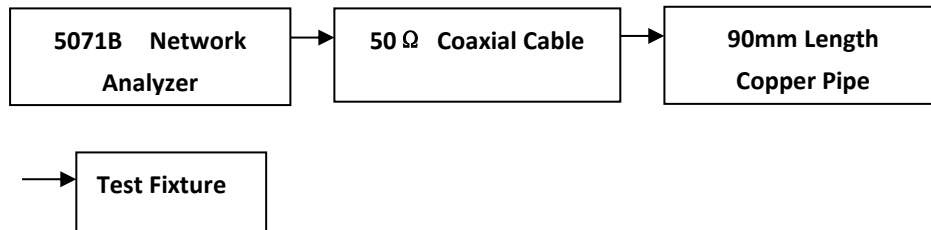
3. TestEnvironment



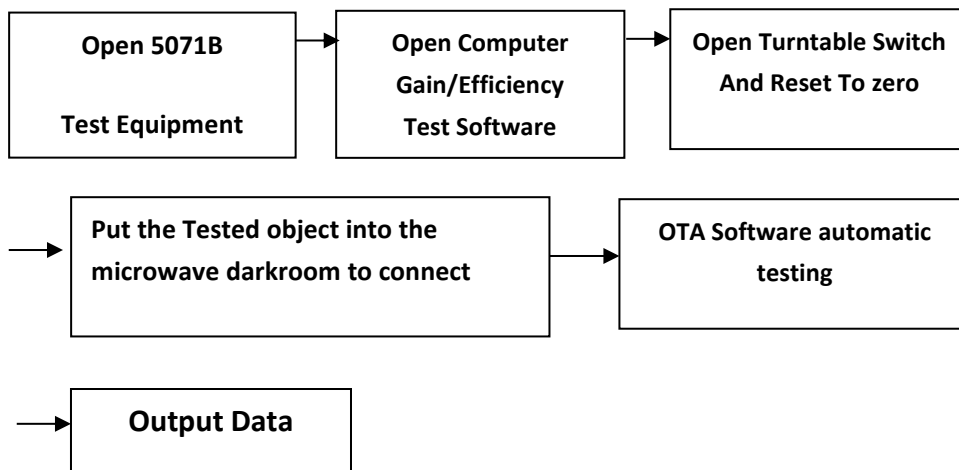
Microwave Anechoic Chamber

4.Test Steps

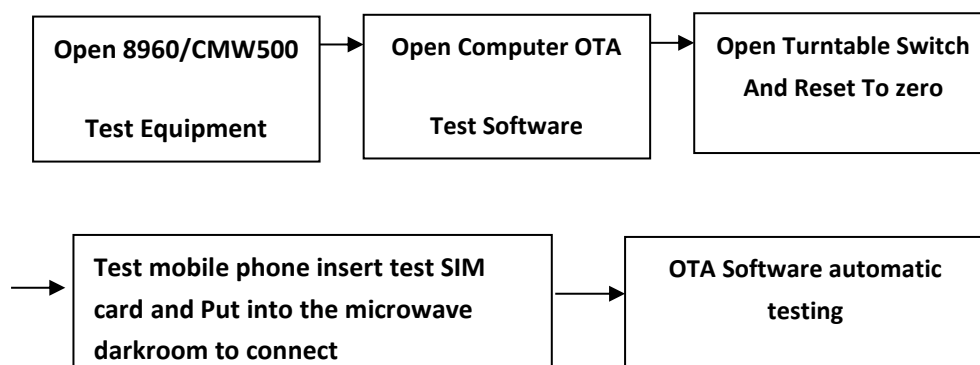
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions

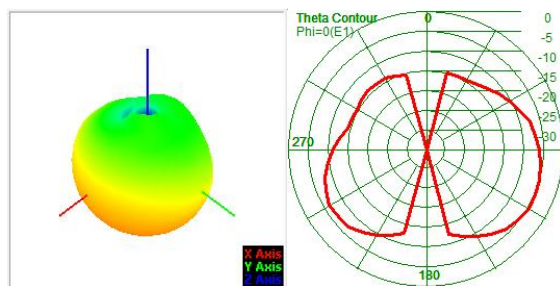
[illegible]

6. Antenna Gain

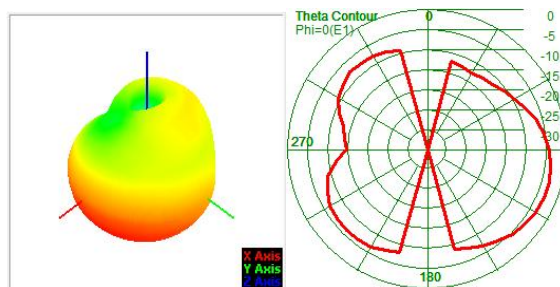
Band	Max Gain	Band	Max Gain
GSM850 (824-894MHZ)	-1.34	Bluetooth (2400-2483.5MHZ)	-0.23
GSM900 (880-960MHZ)	-1.26	WIFI-2.4G (2400-2495MHZ)	-0.23
DCS1800 (1710-1880MHZ)	0.72	GPS (1575.4MHZ)	0.58
PCS1900 (1850-1990MHZ)	1.37		
WCDMA2(1850-1990MHz)	1.37		
WCDMA4(1712-2153MHz)	0.72		
WCDMA5(826-892MHz)	-1.34		
LTE-B2(1850-1990MHZ)	1.37		
LTE-B4(1710-2155MHZ)	0.72		
LTE-B5 (824-894MHZ)	-1.34		
LTE-B12(699-746MHZ)	-1.91		
LTE-B13(746-787MHZ)	-1.52		
LTE-B14(758-798MHZ)	-1.52		
LTE-B17(704-746MHZ)	-1.91		
LTE-B25(1850-1995MHZ)	1.37		
LTE-B26(814-894MHZ)	-1.34		
LTE-B41 (2496-2690MHZ)	2.15		
LTE-B66(1710-2200MHZ)	0.72		
LTE-71(617-698MHZ)	-2.48		

7.3D Lobe Diagram

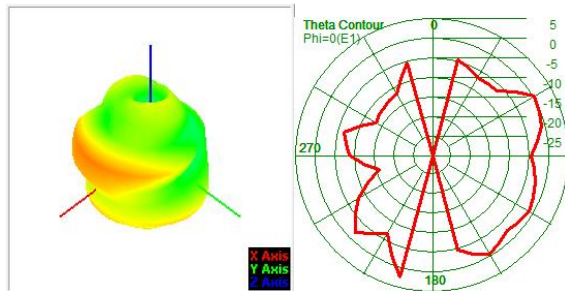
GSM850



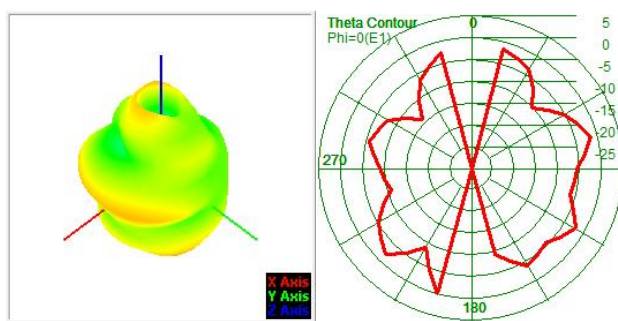
GSM900



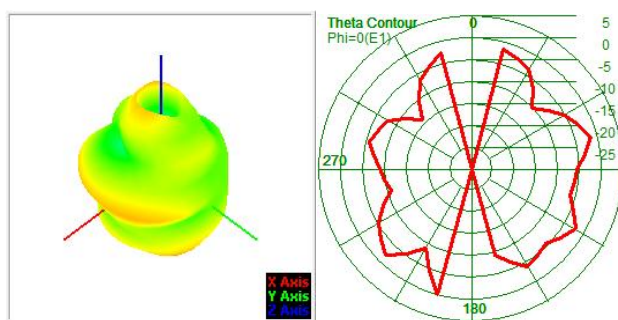
DSC1800



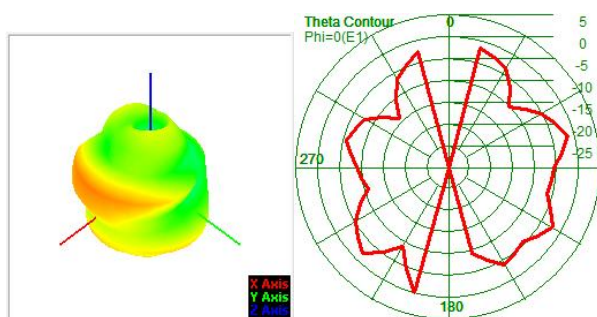
PCS1900



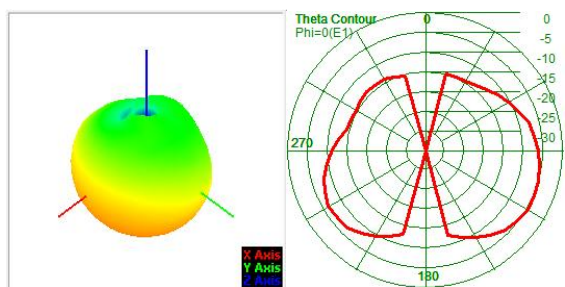
W2



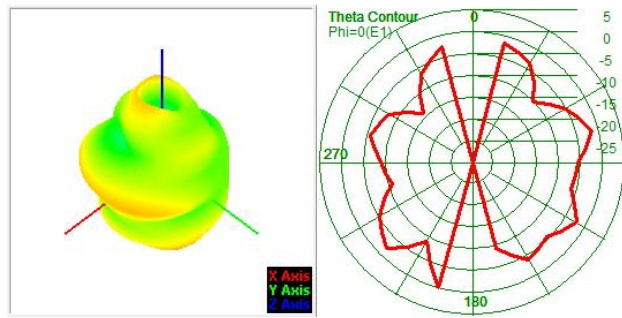
W4



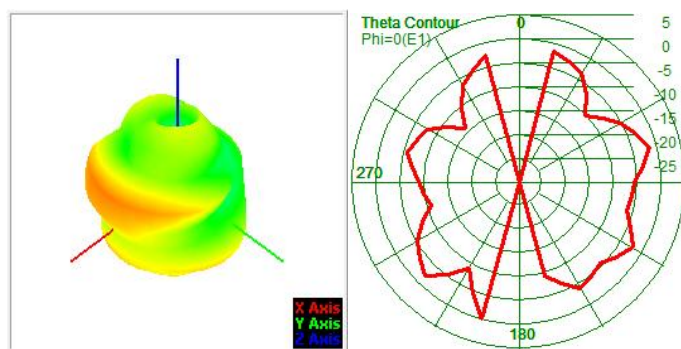
W5



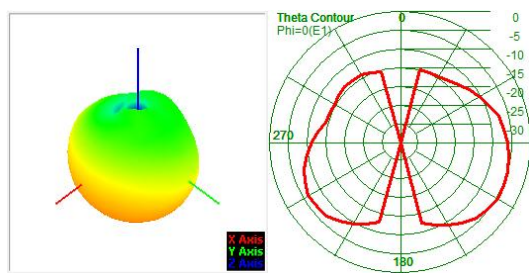
FDD-B2



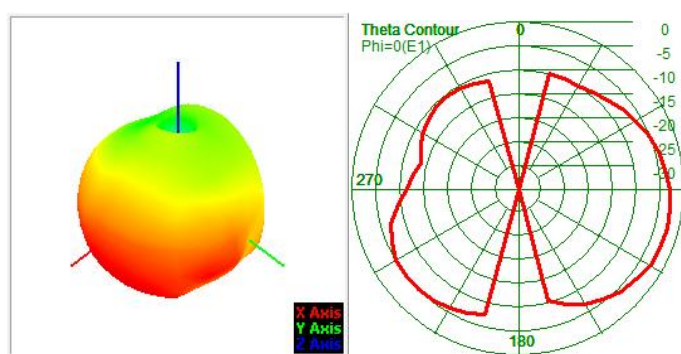
FDD-B4

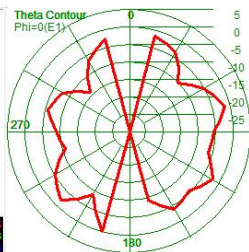
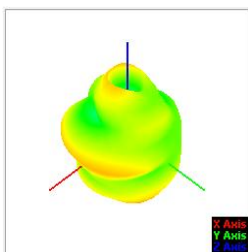
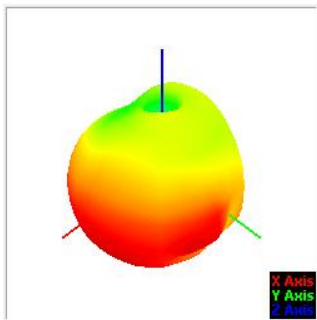
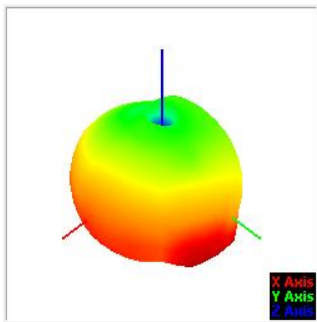


FDD-B5

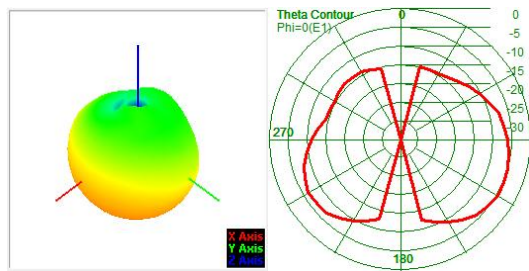


FDD-B12

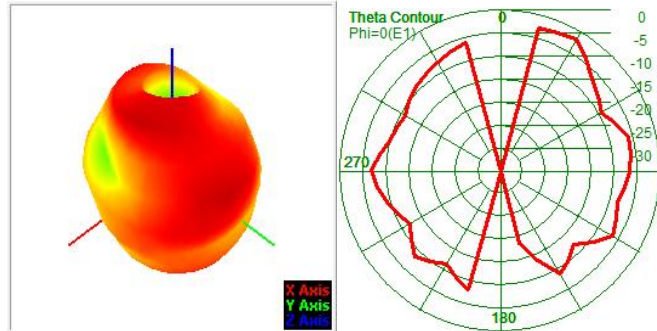




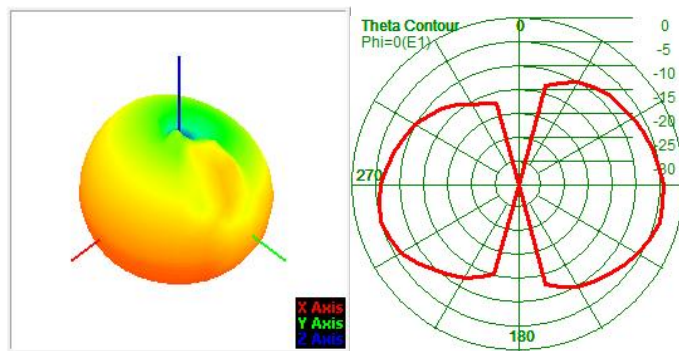
FDD-B26



FDD-B66

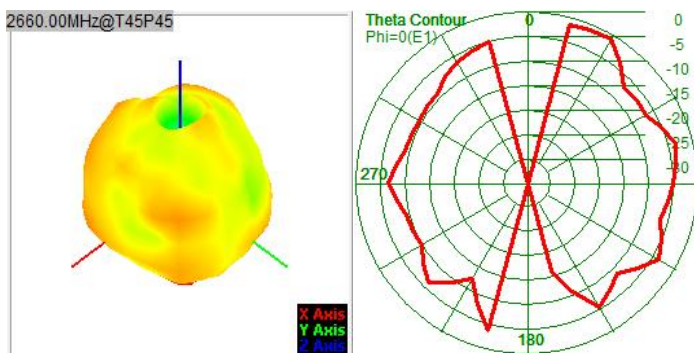


FDD-B71

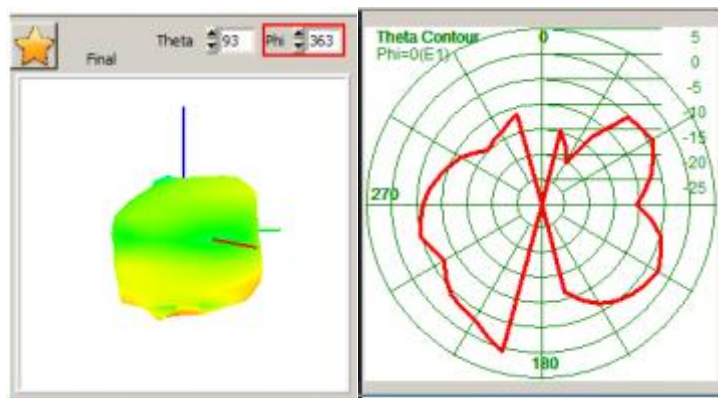


TDD-B41

2660.00MHz@T45P45



GPS-L1



BT/WIFI-2.4

