

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

project: l89B1

Band: 2G--B2/3/5/8

3G--W2/4/5/8

4G--B2/3/4/5/7/8/12/17/18/19/20/26/28/38/40/41/66

Design Engineer: Chen (150 1454 6468)

date: 2025-12-05

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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)

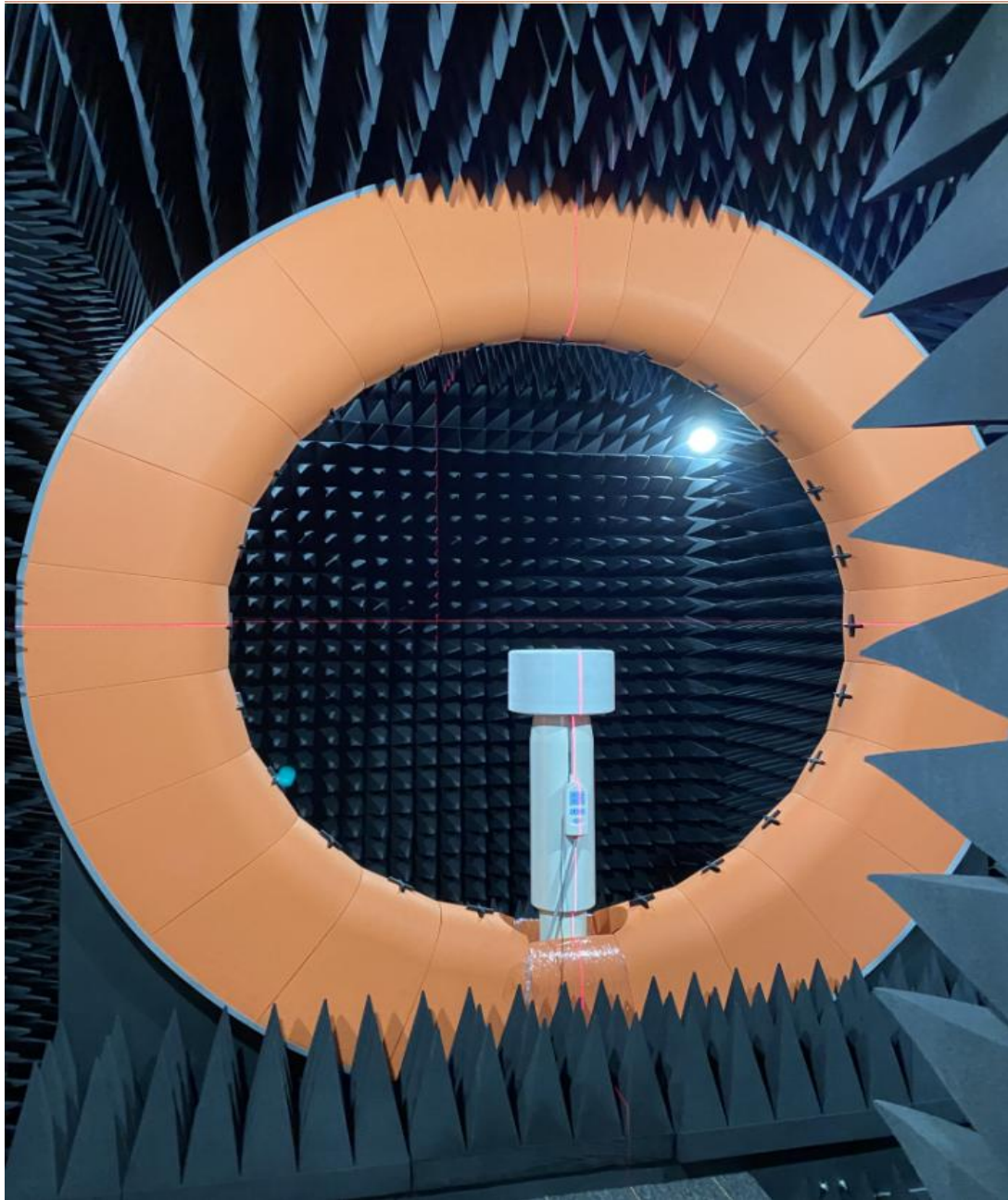


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

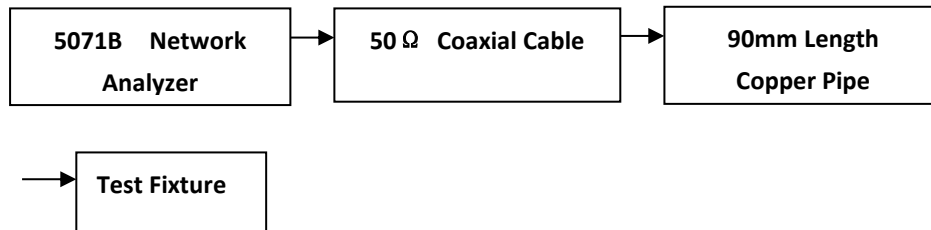
3. TestEnvironment



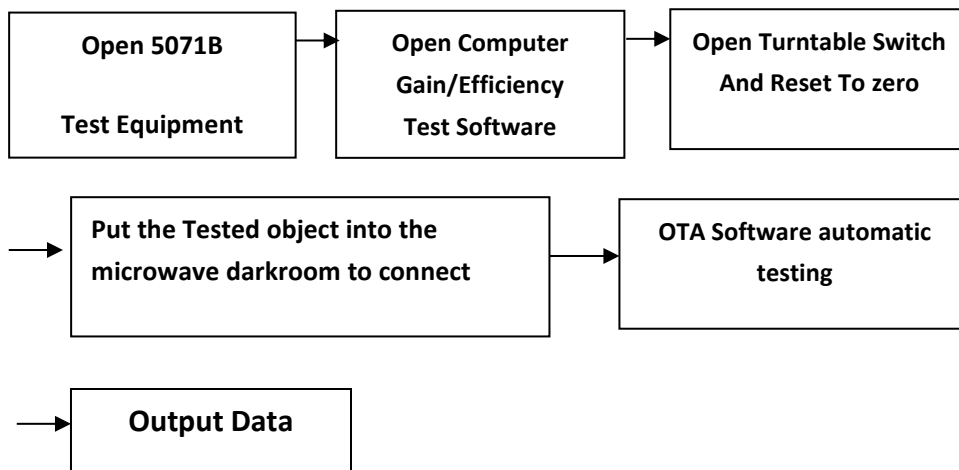
Microwave Anechoic Chamber

4.Test Steps

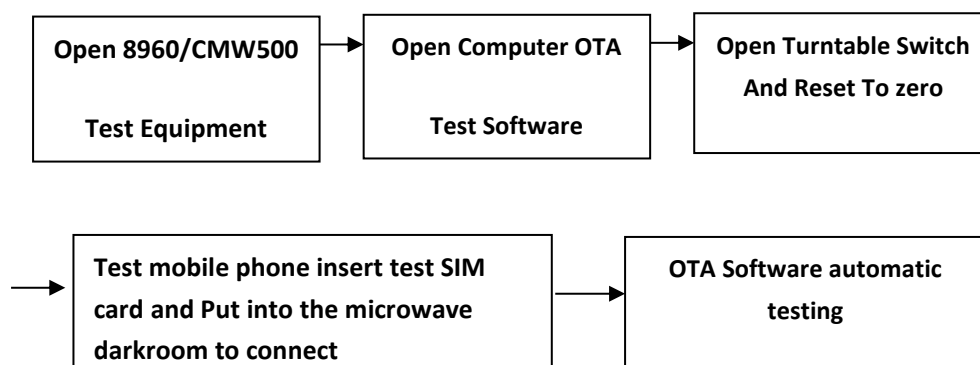
Passive VSWR/RL Test Steps:



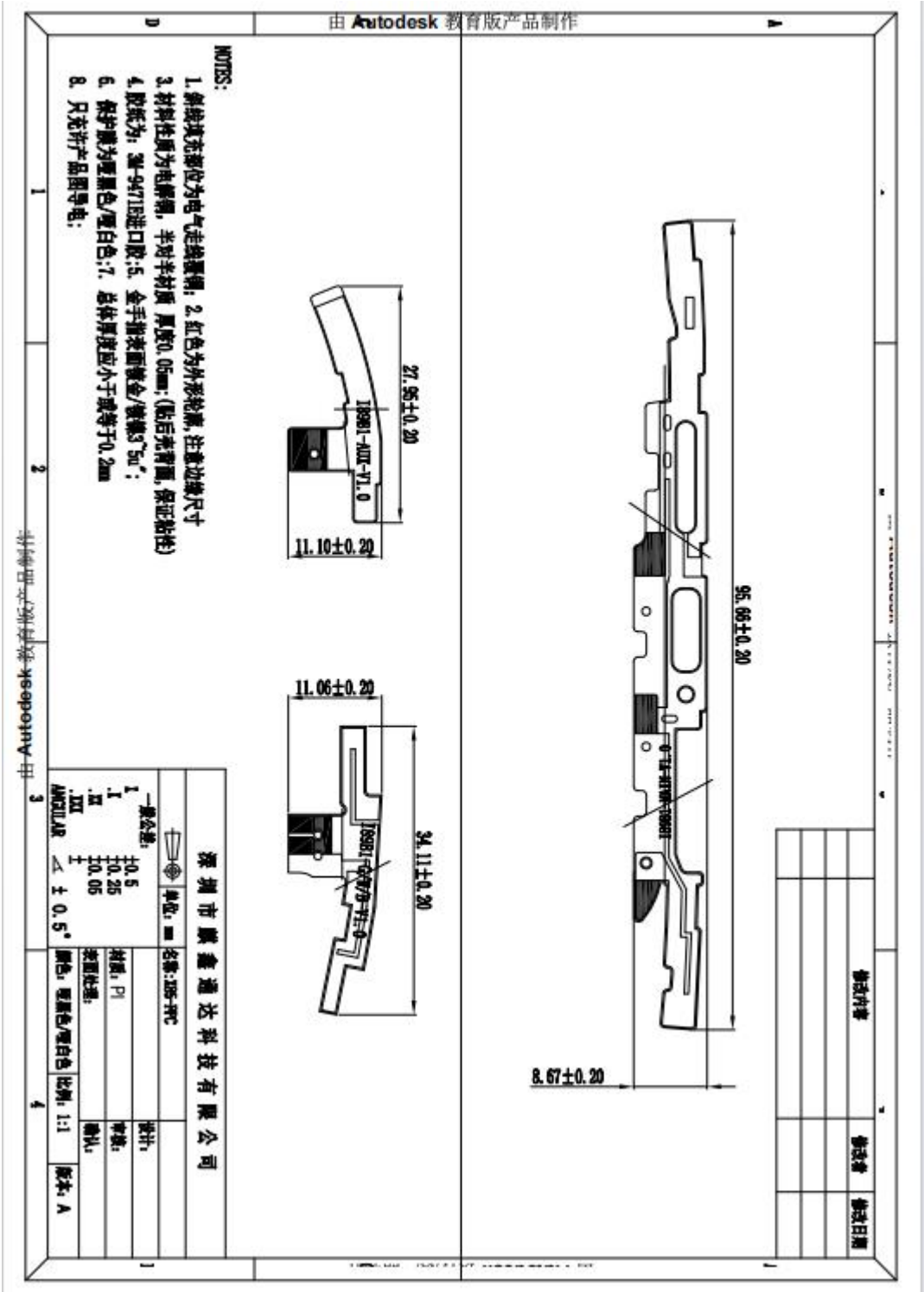
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5.Antenna Dimensions



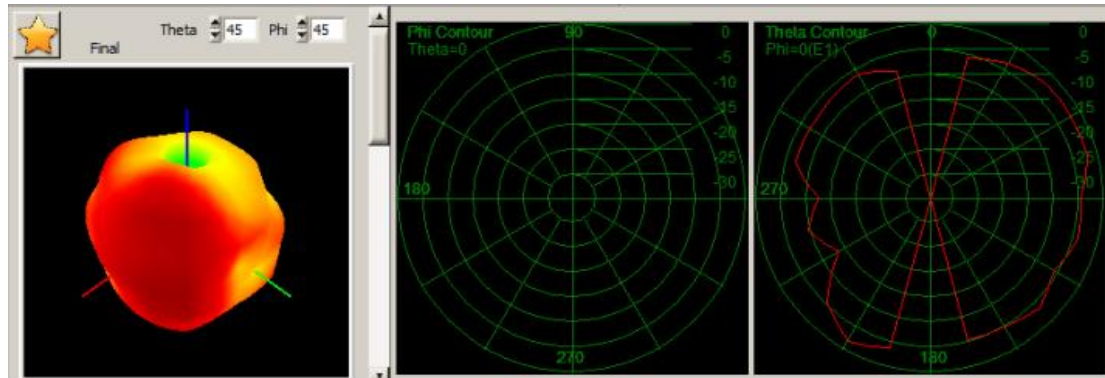
6. Antenna Gain(dBi)

Band	Max Gain
GSM850	-2.45
GSM900	-2.47
DCS1800	0.31
PCS1900	0.54
WCDMA2	-0.11
WCDMA4	-0.31
WCDMA5	-2.41
WCDMA8	-2.15
LTE-B1	0.58
LTE-B2	-0.11
LTE-B3	0.22
LTE-B4	0.31
LTE-B5	-2.41
LTE-B7	0.24
LTE-B8	-2.15
LTE-B12	-0.21
LTE-B17	0.33
LTE-B18	0.35
LTE-B19	0.26
LTE-B20	0.28
LTE-B26	0.22
LTE-B28	-0.14
LTE-B38	0.24
LTE-B39	0.32
LTE-B40	0.3
LTE-B41	0.3
LTE-B66	-0.19

L1/BT/WIFI2.4G/WIFI5.2-5.8G	
Band	Max Gain
Bluetooth(2402-2480)	0.2
WIFI-2.4(2412-2484)	0.2
GPS-L1(1575.42)	0.2

7.2D&3D Lobe Diagram

BT



2.4G

WIFI



GPS-L1



8.Introduction to Antenna Information

I89B1	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G GPS/WIFI/BT ANTENNA(<u>PIFA</u>): L1/WIFI(2.4G)/BT
Antenna materia	FPC