

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: A7

FrequencyBand:

GSM--2/3/5/8

WCDMA--1/2/4/5/8

CDMA--BC0/BC1/BC10

LTE--1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/38/39/40/41/66

DATE: 2026-6-5

**Address: The west side of the first floor and the third floor of Building 1,
Shayi North Yongfa Technology Park, Xinhe Road, Gonghe Community,
Shajing Street, Bao'an District, Shenzhen**

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)	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)

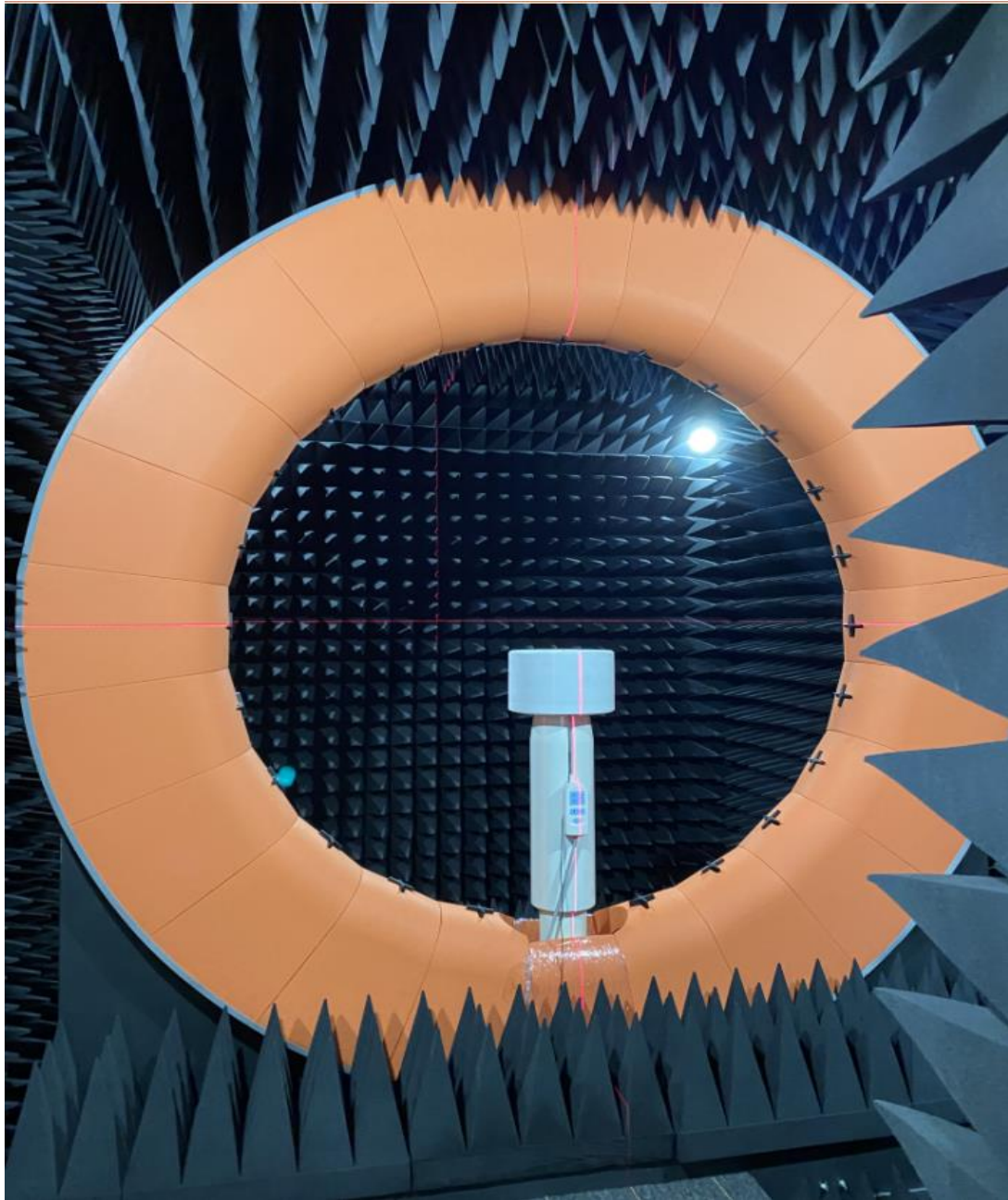


Agilent 8960 (2G/3G Test Equipment)



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

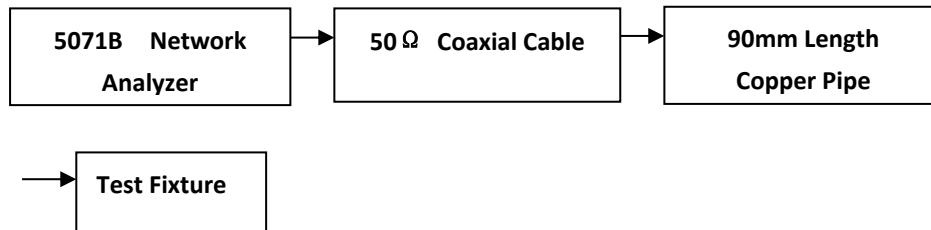
3. TestEnvironment



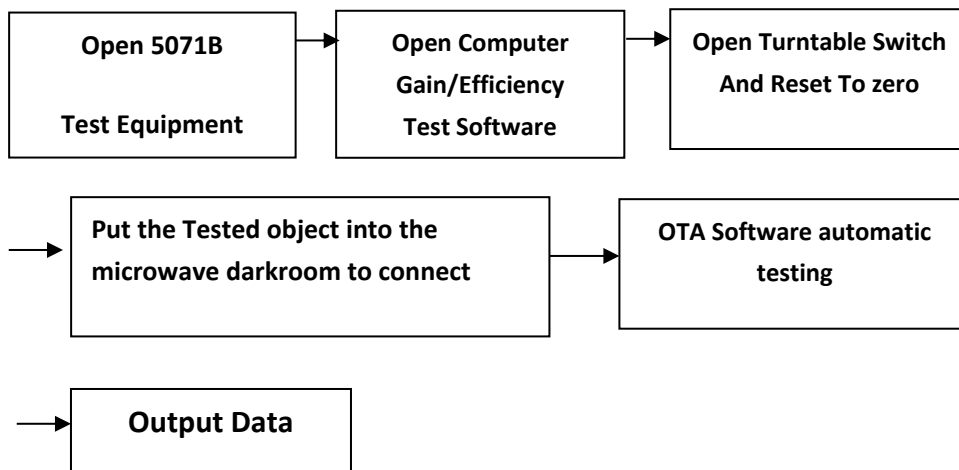
Microwave Anechoic Chamber

4.Test Steps

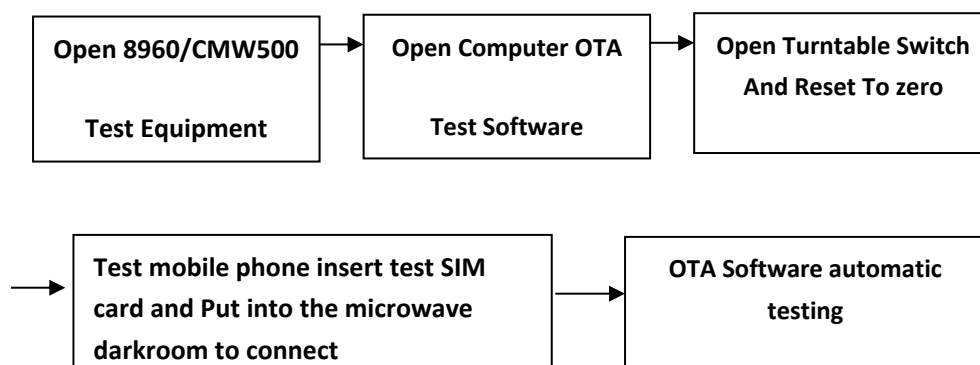
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



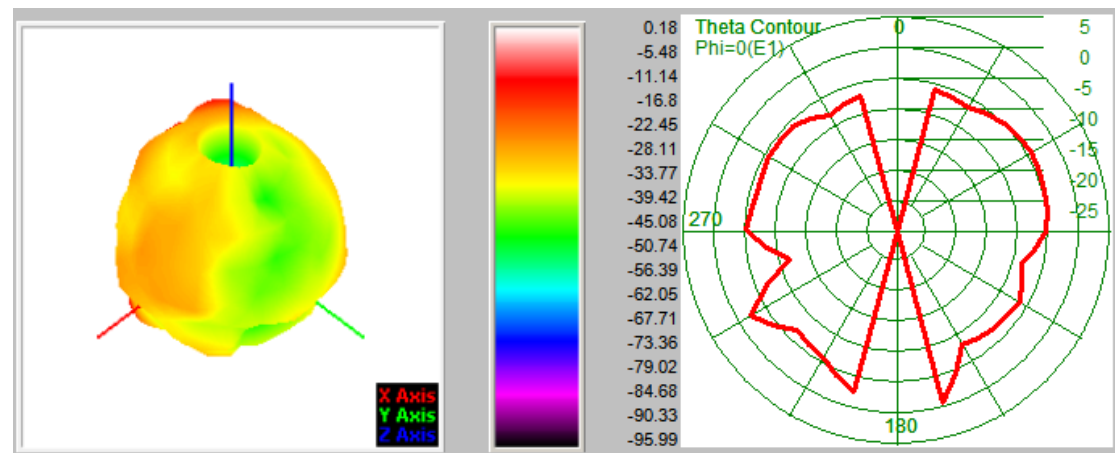
5. Antenna Gain

Band	Max Gain	Band	Max Gain
GSM850(824-894MHz)	-1.65	LTE-B7(2500-2690MHz)	0.53
GSM900(880-960MHz)	-1.42	LTE-B8(880-960MHz)	-1.42
DCS1800(1710-1880MHz)	-0.96	LTE-B12(699-746MHz)	-2.72
PCS1900(1850-1990MHz)	-0.67	LTE-B13(746-787MHz)	-2.28
WCDMA1(1922-2168MHz)	-0.93	LTE-B17(704-746MHz)	-2.72
WCDMA2(826-892MHz)	-0.67	LTE-B18(815-875MHz)	-1.65
WCDMA4(882-958MHz)	-0.96	LTE-B19(830-890MHz)	-1.65
WCDMA5(826-892MHz)	-1.65	LTE-B20(791-862MHz)	-1.65
WCDMA8(882-958MHz)	-1.42	LTE-B25(1850-1995MHz)	-0.67
BC0(815-894MHz)	-1.65	LTE-B26(814-894MHz)	-1.65
BC1(1850-1990MHz)	-0.67	LTE-B28(706-803MHz)	-2.72
BC10(806-940MHz)	-1.65	LTE-B66(1710-2200MHz)	-0.96
LTE-B1(1920-2170MHz)	-0.93	LTE-B38(2570-2620MHz)	0.53
LTE-B2(1850-1990MHz)	-0.67	LTE-B39(1880-1920MHz)	-0.67
LTE-B3(1710-1880MHz)	-0.96	LTE-B40(2300-2400MHz)	0.29
LTE-B4(1710-2155MHz)	-0.96	LTE-B41(2496-2690MHz)	0.53
LTE-B5(824-894MHz)	-1.65		

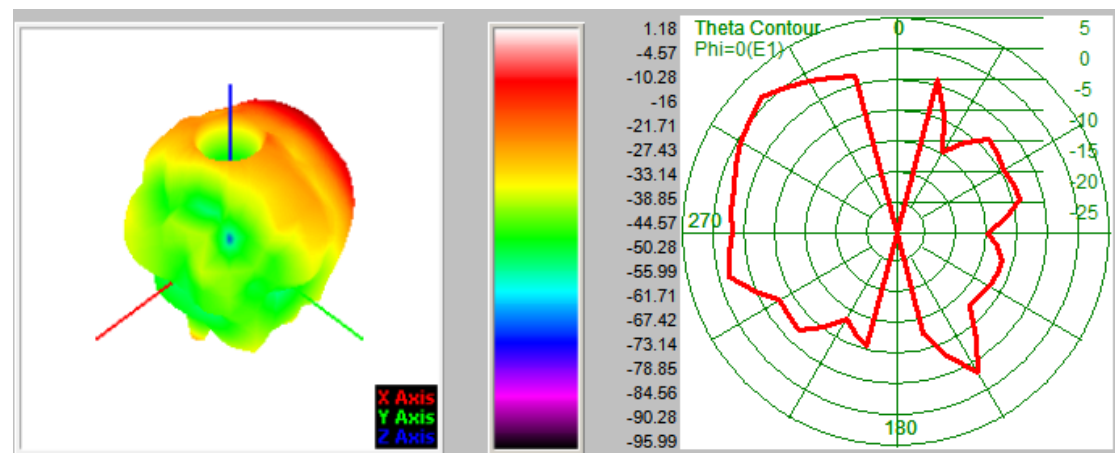
L1/BT/WIFI2.4G/WIFI5.2-5.8G	
Band	Max Gain
Bluetooth(2402-2480)	0.18
WIFI-2.4G(2412-2484)	0.18
WIFI-5.1(5150-5350)	1.18
WIFI-5.8(5725-5850)	1.52
GPS-L1(1575.42)	-0.36

6.3D Lobe Diagram

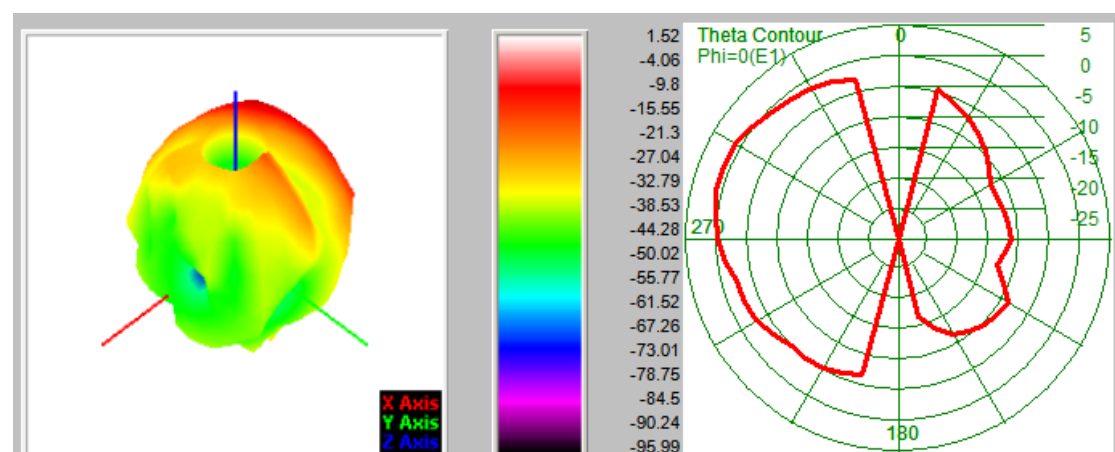
2.4GWIFI

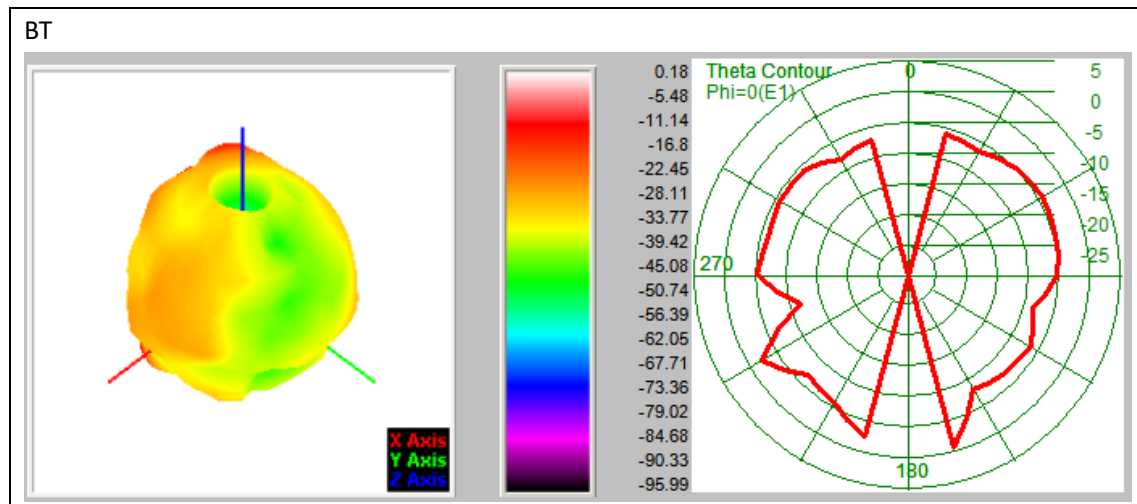


5.1GWIFI



5.8GWIFI





7. Antenna distribution diagram



8. Antenna drawing

版本	修改内容	修改者	修改日期
T.B			

A

B

C

Dimensions:

- Top View (A): 4.60 ± 0.2 , 26.85 ± 0.2 , 70.60 ± 0.2
- Side View (B): 17.72 ± 0.2 , 70.61 ± 0.2 , 3.97 ± 0.2
- Front View (C): 70.60 ± 0.2

注:			
1.根据图纸检查喇叭来料素材，素材不能有多胶，缺胶，脏污，披风等外观问题。 2.素材来料必须按照材质要求。 塑胶材料沙比克：11354。 3.镭雕不能断线，电镀不能产生溢镀与粉尘。 4.如客户有百格需求，再根据要求检验。 5.出货线路前需全检。			
序号	名称	数量	材质
1	黑色	1	11354
2	沙比克	1	沙比克
3	深圳市顺鑫通达科技有限公司	一般公差: I. ±0.5 II. ±0.25 III. ±0.15 ANGULAR ±0.5°	
4	单位: mm	名称: A7-LDS天线组件	设计:
5	材质: 铜镍+电镀	R F ₂	确认:
6	表面处理: 清洗	比例: 1:1	版本: A
7	颜色:		

9.Introduction to Antenna Information

A7	
Antenna type and frequency band	MAIN ANT --PIFA GPS/WIFI/BT ANT --PIFA DIV ANT --PIFA
Antenna materia	LDS