

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Test Report

Project Name: S6518-63F

Frequency Band:

G2/3/5/8+W1/2/4/5/8+

FDD-1/2/3/4/5/7/8/12/17/19/20/25/26/28AB/66

DATE: 2024-07-26

ADDRESS: Room503-505,Building211,

Tairan IndustrialandTradePark,Chegongmiao,FutianDistrict,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)

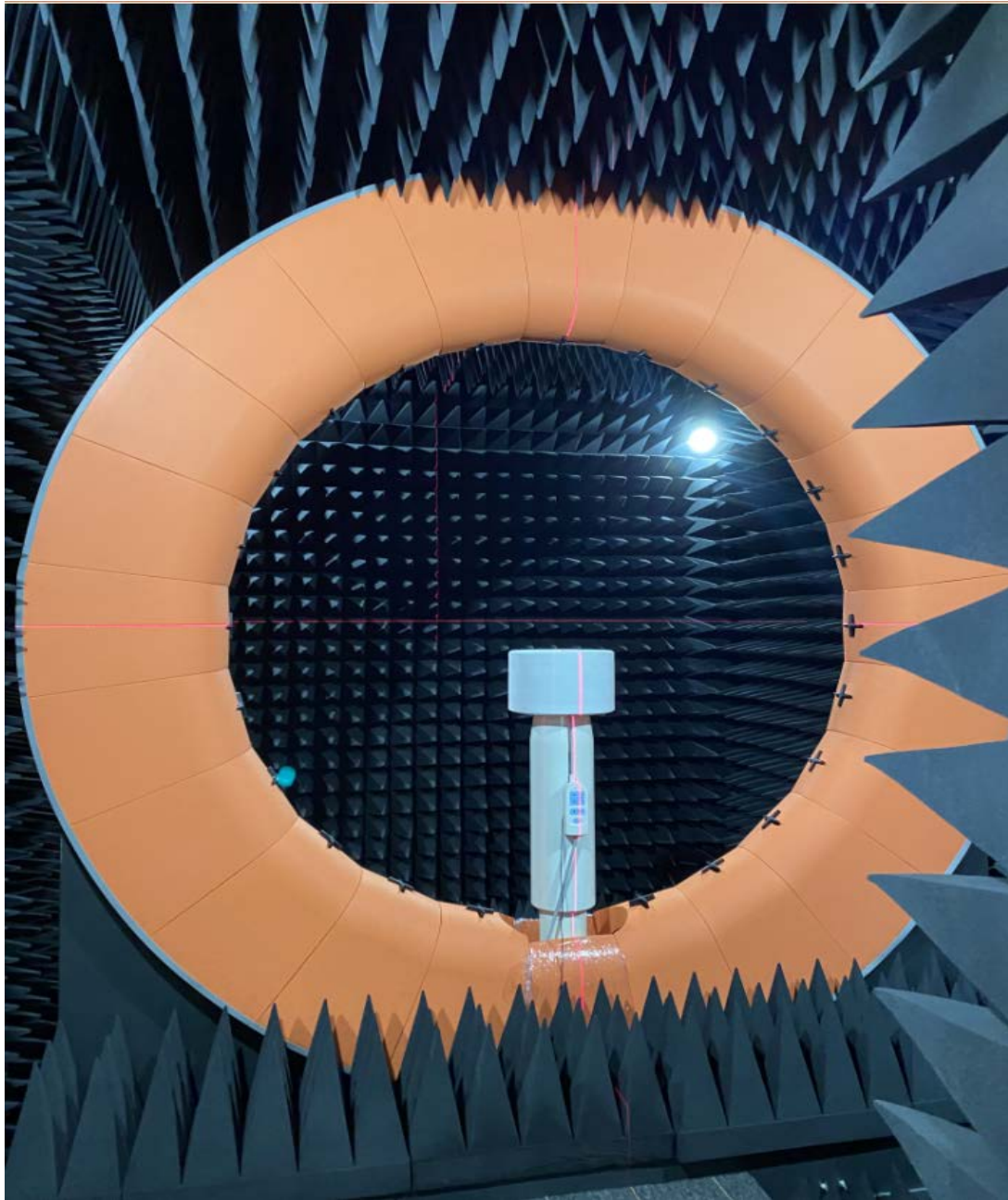


Agilent 8960 (2G/3G Test Equipment)



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

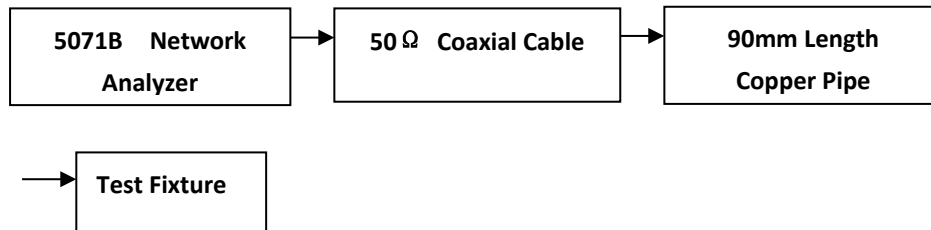
3. TestEnvironment



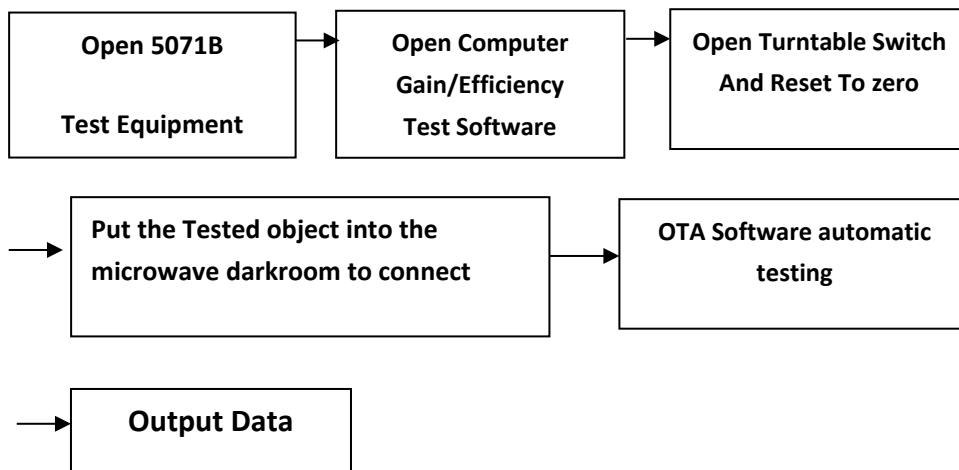
Microwave Anechoic Chamber

4.Test Steps

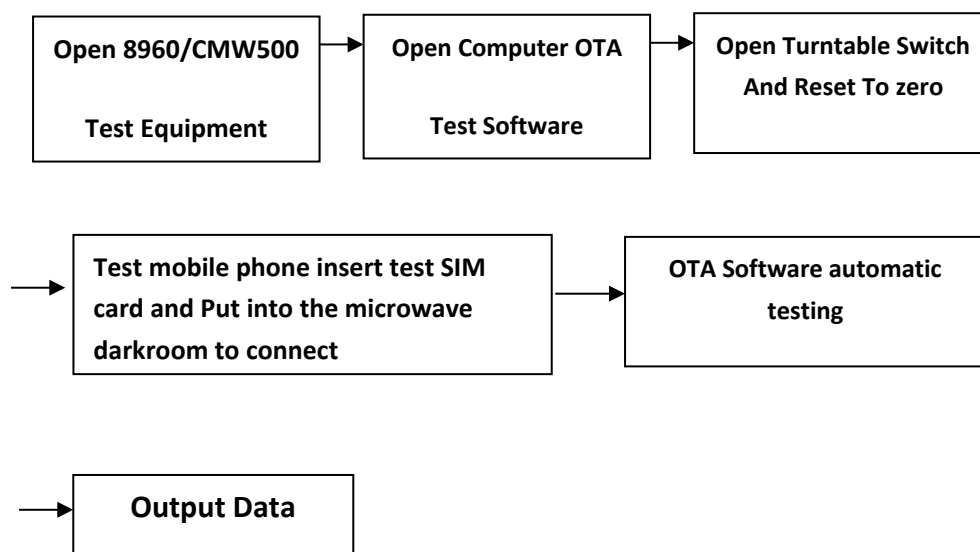
Passive VSWR/RL Test Steps:



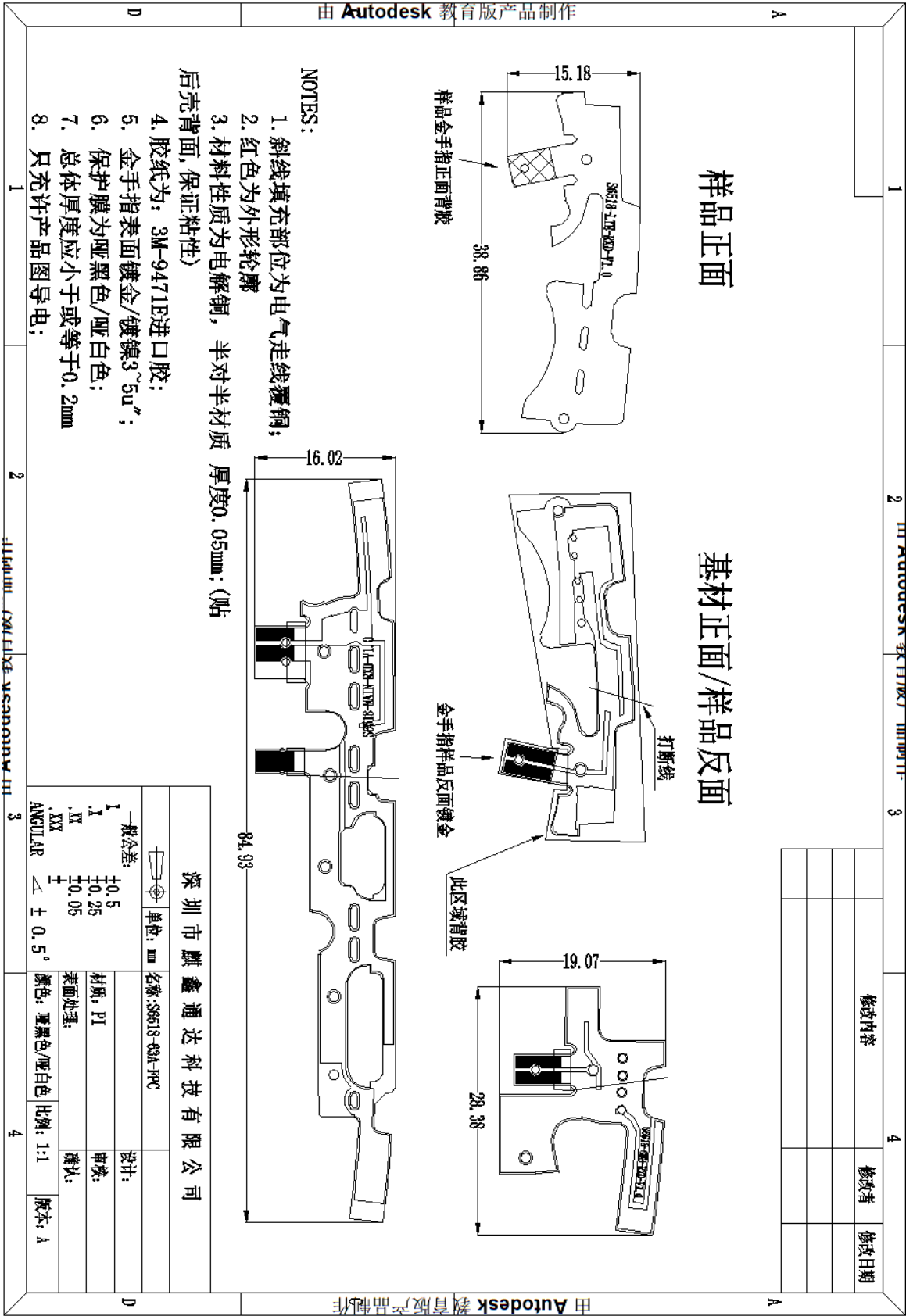
Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



5. Antenna Dimensions



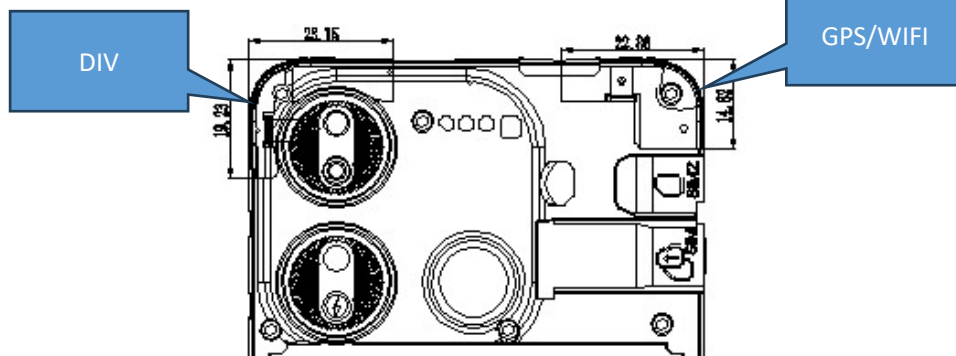
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S6518天线位置图

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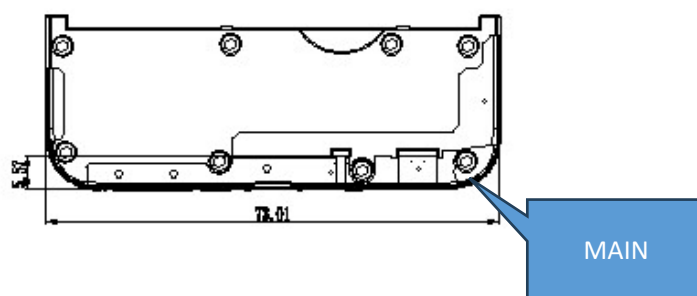
Top



Right

front

Left



Bottom

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6.Introduction to Antenna Information

S6518	
Antenna type and frequency band	MAIN ANTENNA(PIFA):2G/3G/4G 25.058601001 DIV ANTENNA(PIFA):2G/3G/4G 25.058601003 GPS/WIFI/BT ANTENNA(PIFA):L1/2.4GWIFI/BT 25.058601002
Antenna materia	FPC

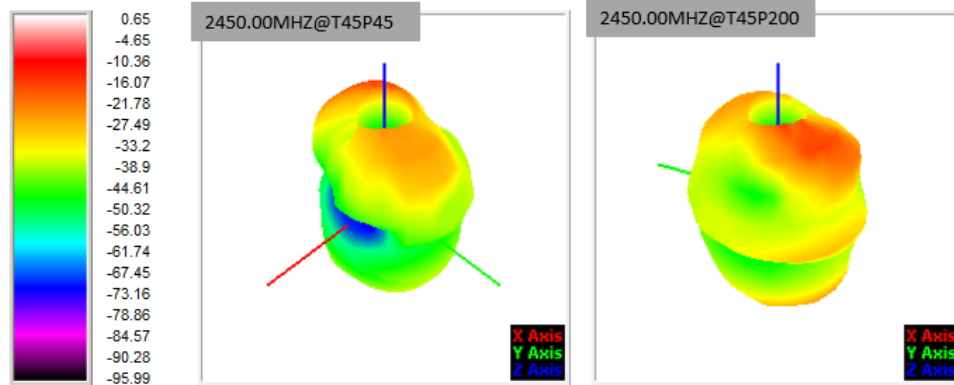
7.Antenna Gain

Band	Max Gain	Efficiency
GSM850	-2.75dBi	30.3%
GSM900	-2.07dBi	31.4%
DCS1800	1.06dBi	36.9%
PCS1900	-0.31dBi	32.1%
WCDMA2100	-0.53dBi	26.6%
WCDMA1900	-0.31dBi	32.1%
WCDMA1700	1.06dBi	36.9%
WCDMA850	-2.75dBi	30.3%
WCDMA900	-2.07dBi	31.4%
BAND 1	-0.53dBi	26.6%
BAND 2	-0.31dBi	32.1%
BAND 3	1.06dBi	36.9%
BAND 4	1.06dBi	36.9%

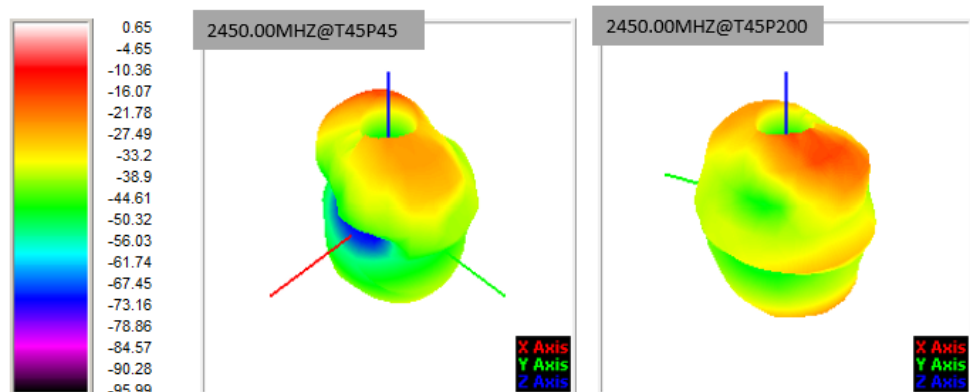
BAND 5	-2.75dBi	30.3%
BAND 7	-0.66dBi	30.6%
BAND 8	-2.07dBi	31.4%
BAND 12	-2.32dBi	32.3%
BAND 17	-2.32dBi	32.3%
BAND 19	-2.75dBi	30.3%
BAND 20	-2.75dBi	30.3%
BAND 25	1.06dBi	36.9%
BAND 26	-2.75dBi	30.3%
BAND 28	-2.35dBi	32.5%
BAND 66	1.06dBi	36.9%
GPS	0.3dBi	33.6%
2.4GWIFI	0.65dBi	35%
BT	0.65dBi	35%

8.3D Lobe Diagram

2.4G-WIFI



BT



9. Antenna OTA

S6518-FS-OTA											
BAND	CHN	TRP	TIS	BAND	CHN	TRP	TIS	BAND	CHN	TRP	TIS
GSM850	L	2654		GSM900	L	26.06		DCS1800	L	26.67	
	M	27.09			M	26.62			M	26.31	
	H	26.91	-101.4		H	26.77	-101.24		H	25.0	-103.28
PCS1900	L	24.37		W-2100	L	18.05		W-1900	L	17.78	
	M	24.2			M	18.02			M	17.85	
	H	24.5	-102.7		H	17.3	-105.85		H	18.54	-105.31
W-1700	L	17.09		W-850	L	17.08		W-900	L	16.39	
	M	17.3			M	17.13			M	17.03	
	H	17.49	-104.35		H	17.26	-102.01		H	17.06	-102.23
FDD-B1	L	18.69		FDD-B2	L	17.92		FDD-B3	L	18.13	
	M	18.57			M	18.01			M	18.43	
	H	17.89	-93.56		H	17.95	-95.4		H	18.48	-93.76
FDD-B4	L	17.25		FDD-B5	L	17.03		FDD-B7	L	16.26	
	M	17.06			M	17.26			M	16.35	
	H	17.4	-94.91		H	17.2	-91.31		H	16.37	-92.74
FDD-B8	L	16.55		FDD-B12	L	16.05		FDD-B17	L	16.32	
	M	17.08			M	16.59			M	16.53	
	H	16.81	-91.44		H	16.78	-92.08		H	16.66	-92.24
FDD-B19	L	16.1		FDD-B20	L	16.31		FDD-B25	L	18.05	
	M	16.42			M	16.75			M	18.0	
	H	17.0	-91.42		H	16.68	-92.63		H	18.02	-94.55
FDD-B26	L	15.86		FDD-B28	L	16.87		FDD-B66	L	17.69	
	M	16.58			M	17.72			M	17.86	
	H	16.61	-90.44		H	18.01	-90.6		H	17.63	-94.54