

ShenZhen QiXinTongDa Technology Co.,Ltd.

Antenna Specification

project: S001B3

Band:

GSM--2/3/5/8

WCDMA--1/2/4/5/6/8/19

LTE--1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/34/38/39/40/41/66/71

Design Engineer: Fu (137 6016 7811)

date: 2026-7-1

ADDRESS: Room503-505,Building211,

Tairan IndustrialandTradePark,Chegongmiao,FutianDistrict,Shenzhen

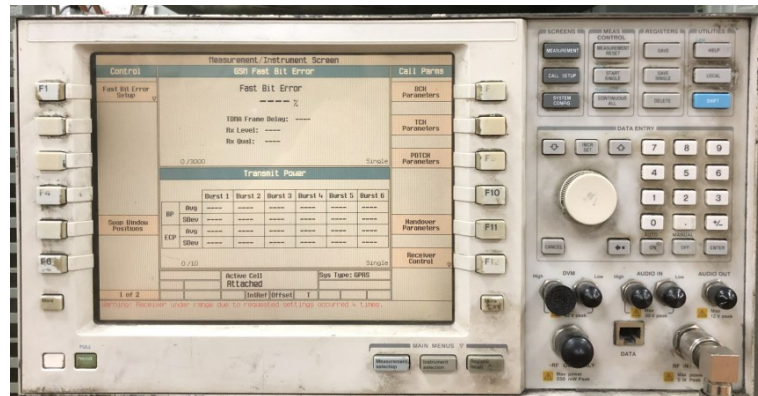
1.Test Project

	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)

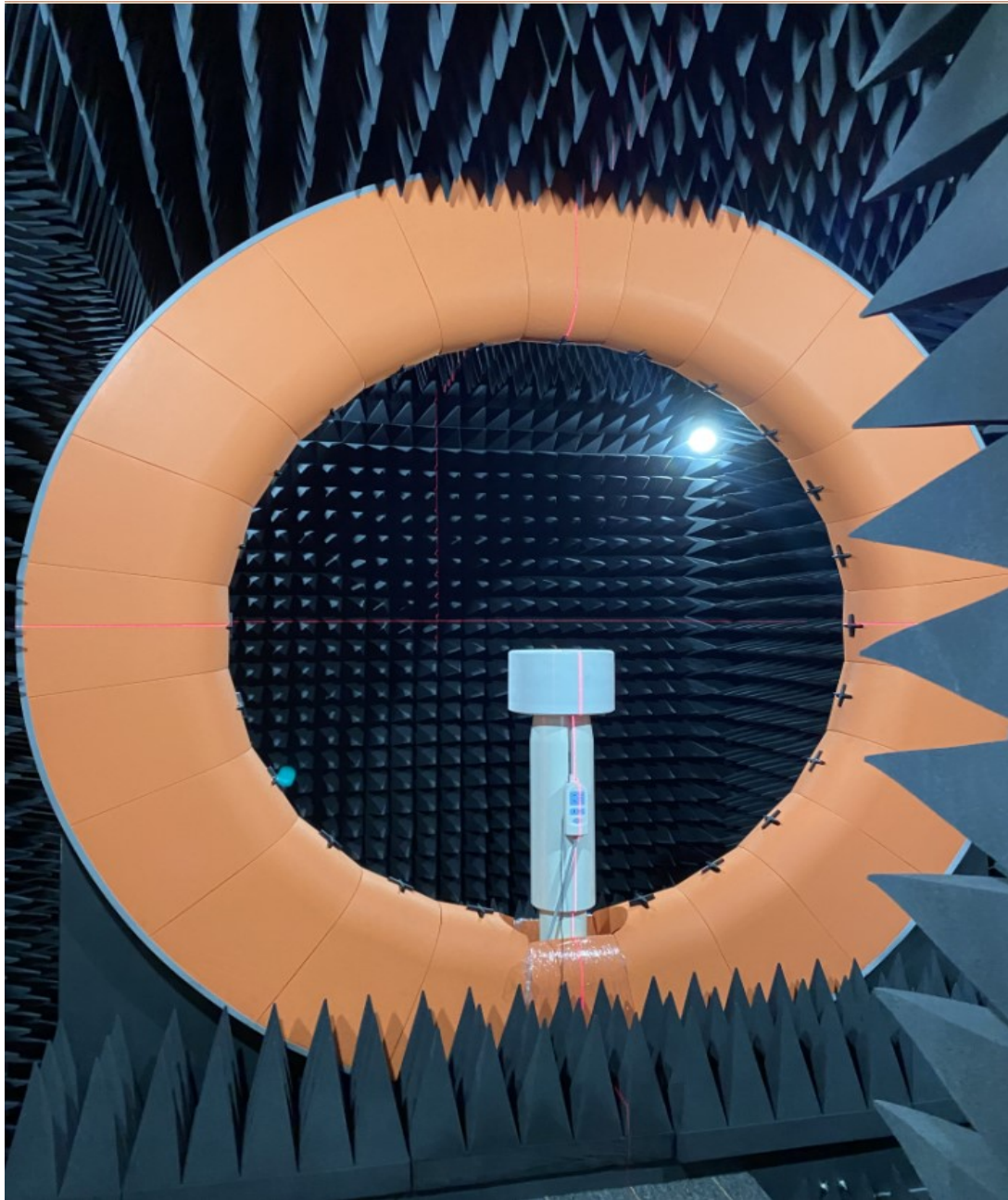


Agilent 8960 (2G/3G Test Equipment)



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

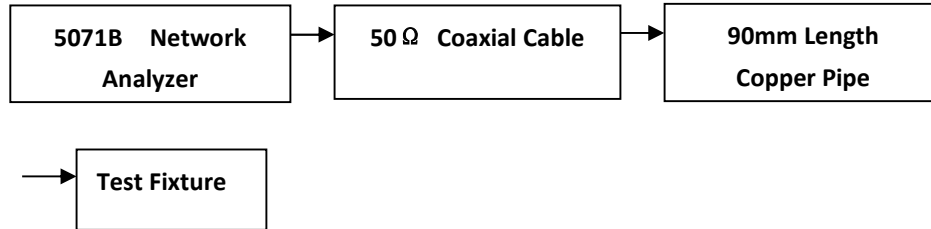
3. TestEnvironment



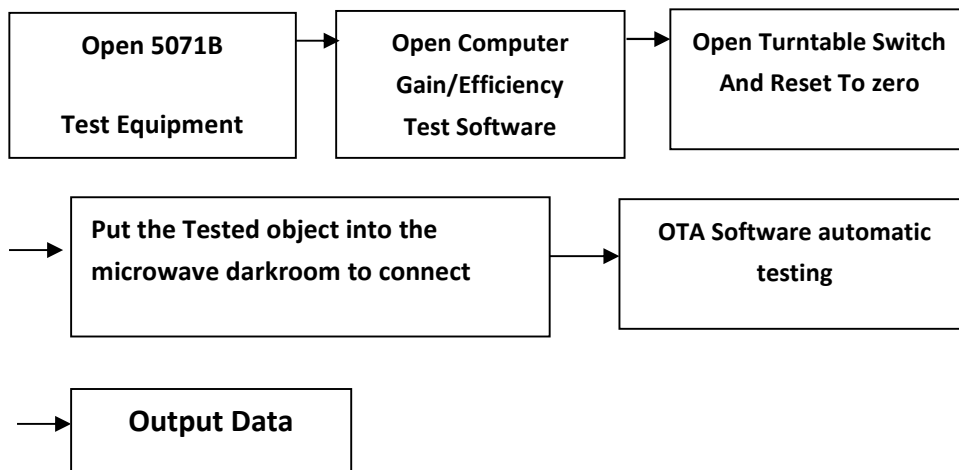
Microwave Anechoic Chamber

4.Test Steps

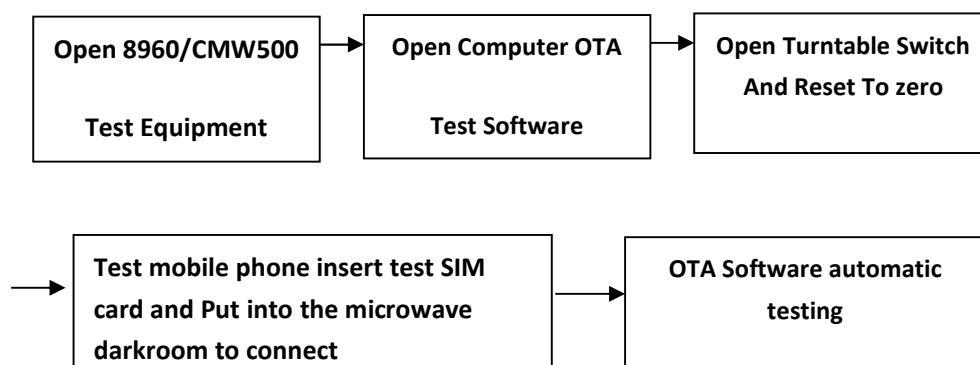
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:



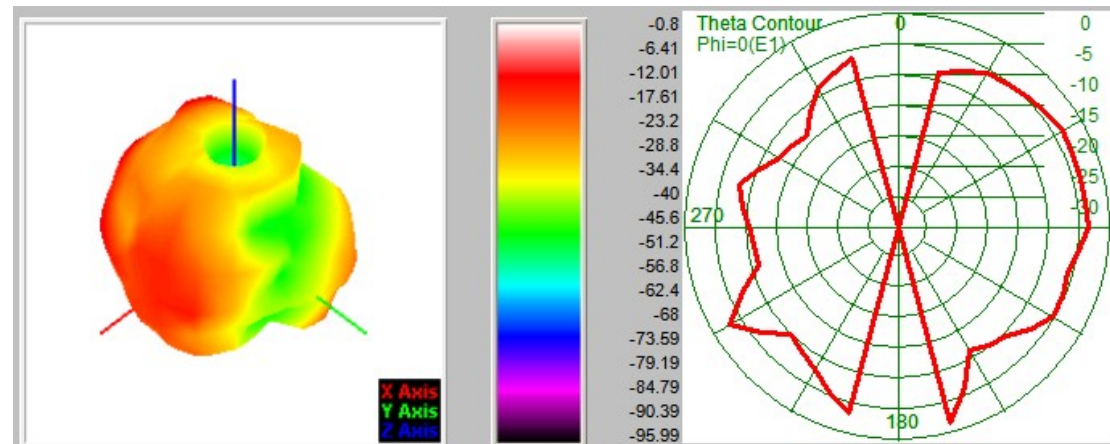
5. Antenna Gain

Band	Max Gain	Band	Max Gain
GSM850(824-894MHz)	-1.38	LTE-B8(880-960MHz)	-1.46
GSM900(880-960MHz)	-1.46	LTE-B12(699-746MHz)	-2.58
DCS1800(1710-1880MHz)	-0.82	LTE-B13(746-787MHz)	-2.39
PCS1900(1850-1990MHz)	-0.56	LTE-B17(704-746MHz)	-2.58
WCDMA1(1922-2168MHz)	-0.39	LTE-B18(815-875MHz)	-1.38
WCDMA2(826-892MHz)	-0.56	LTE-B19(830-890MHz)	-1.38
WCDMA4(882-958MHz)	-0.82	LTE-B20(791-862MHz)	-1.38
WCDMA5(826-892MHz)	-1.38	LTE-B25(1850-1995MHz)	-0.56
WCDMA6(832-883MHz)	-1.38	LTE-B26(814-894MHz)	-1.38
WCDMA8(882-958MHz)	-1.46	LTE-B28(706-803MHz)	-2.58
WCDMA19(832-888MHz)	-1.38	LTE-B66(1710-2200MHz)	-0.82
LTE-B1(1920-2170MHz)	-0.39	LTE-B71(617-698MHz)	-3.23
LTE-B2(1850-1990MHz)	-0.56	LTE-B34(2010-2024MHz)	-0.41
LTE-B3(1710-1880MHz)	-0.82	LTE-B38(2570-2620MHz)	0.24
LTE-B4(1710-2155MHz)	-0.82	LTE-B39(1880-1920MHz)	-0.56
LTE-B5(824-894MHz)	-1.38	LTE-B40(2300-2400MHz)	0.15
LTE-B7(2500-2690MHz)	0.24	LTE-B41(2496-2690MHz)	0.24

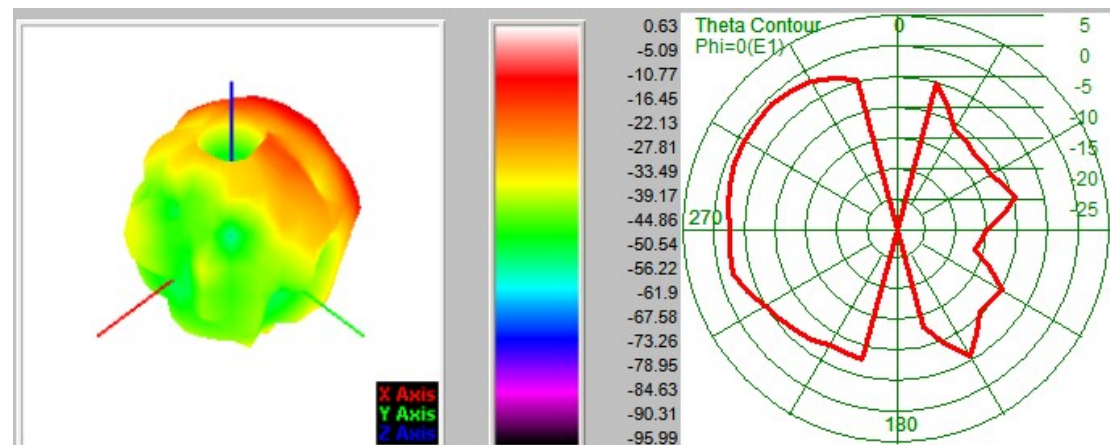
L1/BT/WIFI2.4G/WIFI5.2-5.8G	
Band	Max Gain
Bluetooth(2402-2480)	-0.80
WIFI-2.4G(2412-2484)	-0.80
WIFI-5.1(5150-5350)	0.63
WIFI-5.8(5725-5850)	0.52
GPS-L1(1575.42)	-0.45

6.3D Lobe Diagram

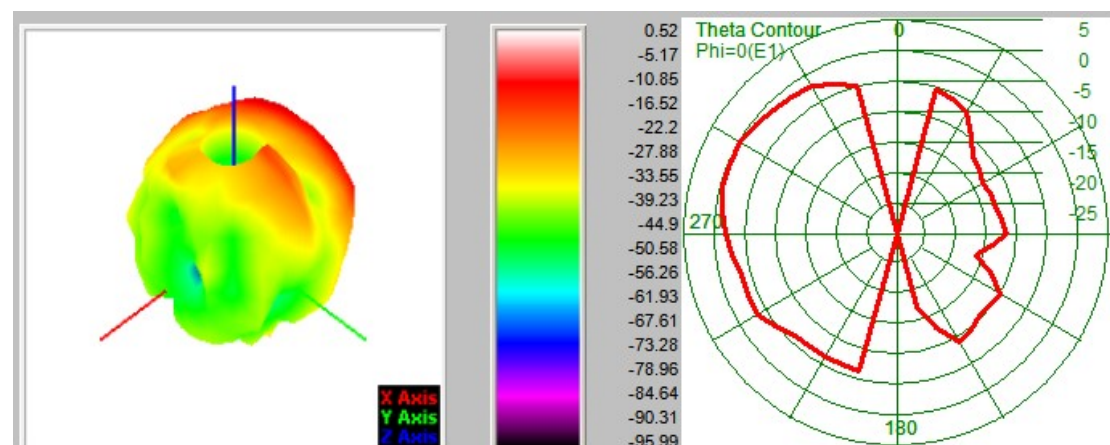
2.4GWIFI



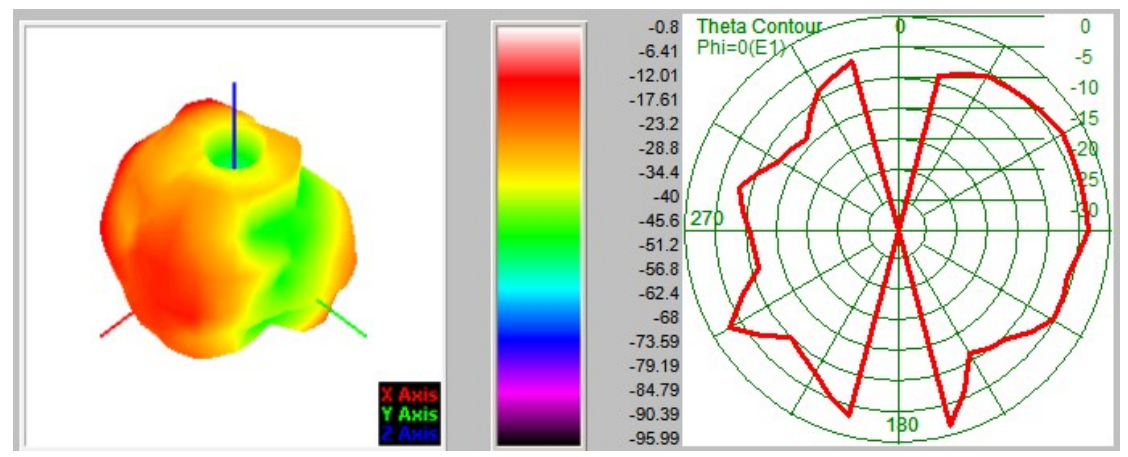
5.1GWIFI



5.8GWIFI



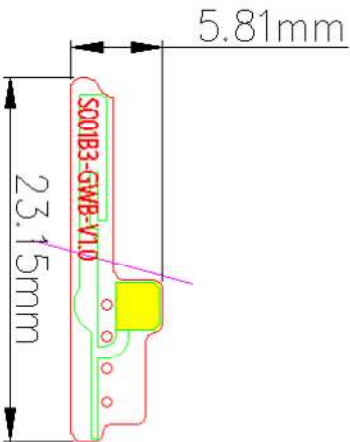
BT



7. Antenna distribution diagram



8.Antenna drawing



NOTES:

1. The filling part of diagonal line is copper clad for electrical wiring;
2. Red is the outline, pay attention to the edge size
3. The material property is electrolytic copper, and the thickness of half to half material is 0.05mm; (Stick to the back of the rear shell to ensure adhesion)
4. Adhesive tape: 3M-9471E imported adhesive;
5. Gold finger surface gold/nickel plating 3"5u ";
6. The protective film is matte black/white;
7. The overall thickness shall be less than or equal to 0.2mm
8. Only the product drawing is allowed to conduct electricity;

Edition	Modify content	Modified by	Modification Date

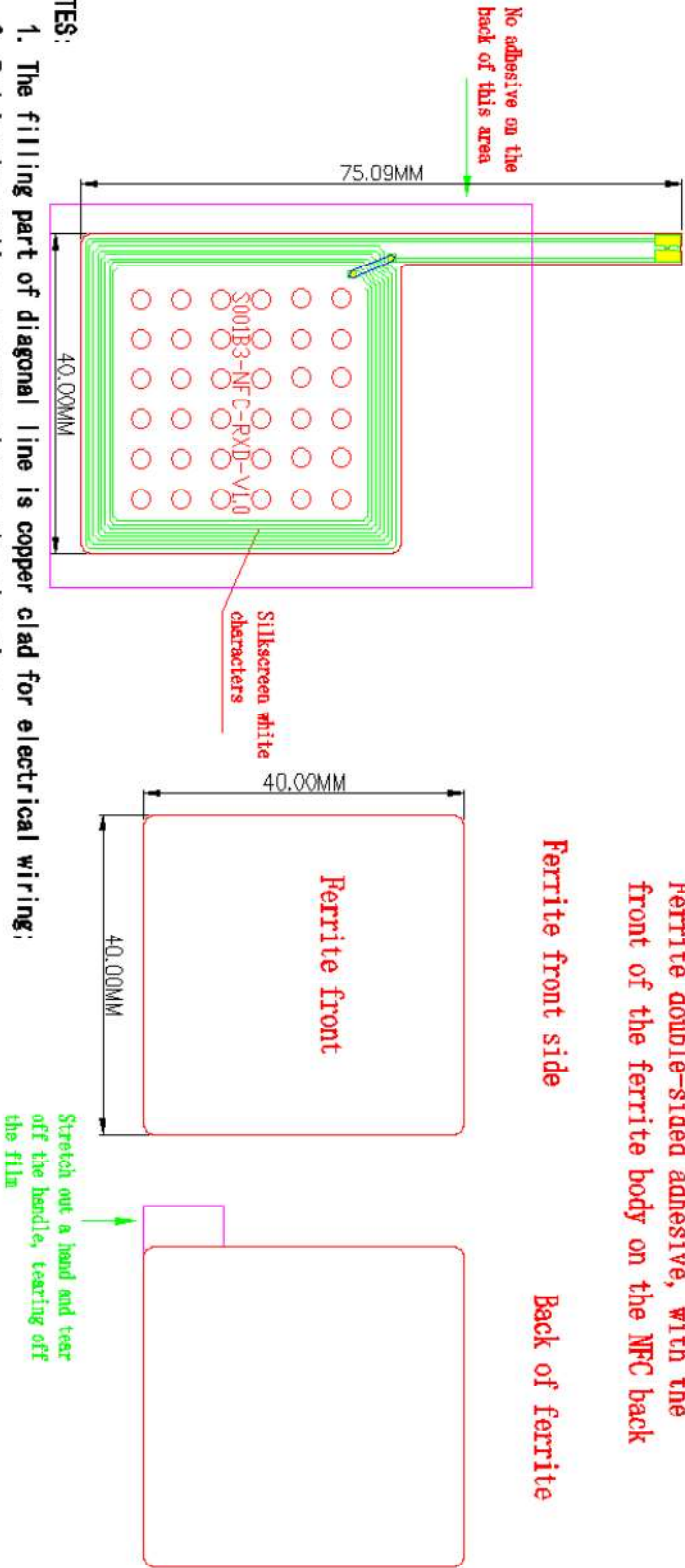
Shenzhen Qixin Tongda Technology Co., Ltd

	QNT: TM	name: S001B3-GWB-TPC	Design:
GENERAL TOLERANCE:		Material Quality: P1	To Examine:
I	±0.5		
.I	±0.25		
.IX	±0.05		
.XIX	±		
ANGULAR	± 0.5°	Color: matte black	proportion: 1:1
		Edition: A	

Revision	Modify content	Modified by	Modification Date

Ferrite double-sided adhesive, with the front of the ferrite body on the NFC back

Ferrite front side Back of ferrite

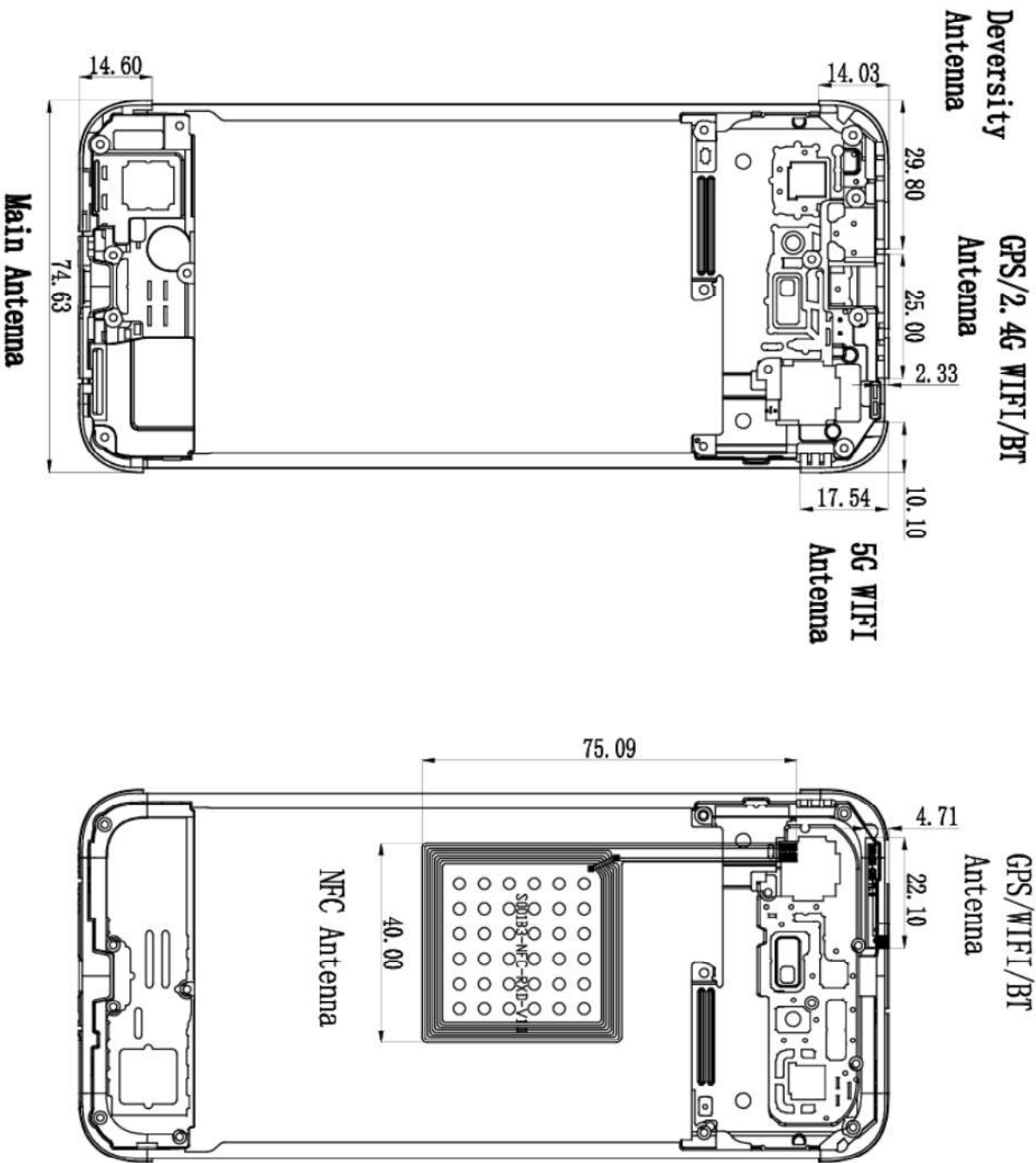


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Shenzhen Qixin Tongda Technology Co., Ltd			
	size: mm	name: S001B3-NFC	Design:
GENERAL TOLERANCE:		Material Quality: Pl To Examine:	
I	±0.5	surface treatment:	Confirm:
II	±0.25		
III	±0.05		
ANGULAR	± 0.5°	Color: matte black	proportion: 1:1
		Edition: A	

Unit: mm



9.Introduction to Antenna Information

S001B3	
Antenna type and frequency band	MAIN ANT --PIFA GPS/2.4GWIFI/BT ANT --PIFA 5GWIFI--PIFA DIV ANT --PIFA
Antenna materia	FPC+Metal-frame