

Antenna Test Report

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Customer: 联合天通
Project: U1802C

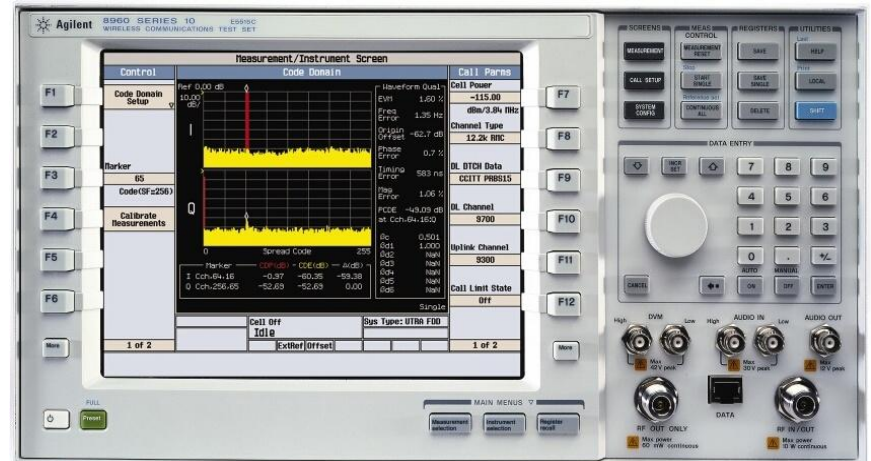
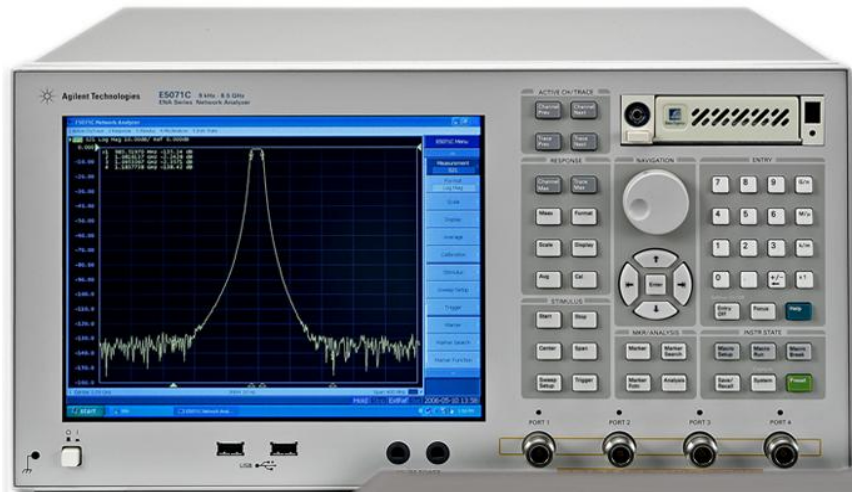
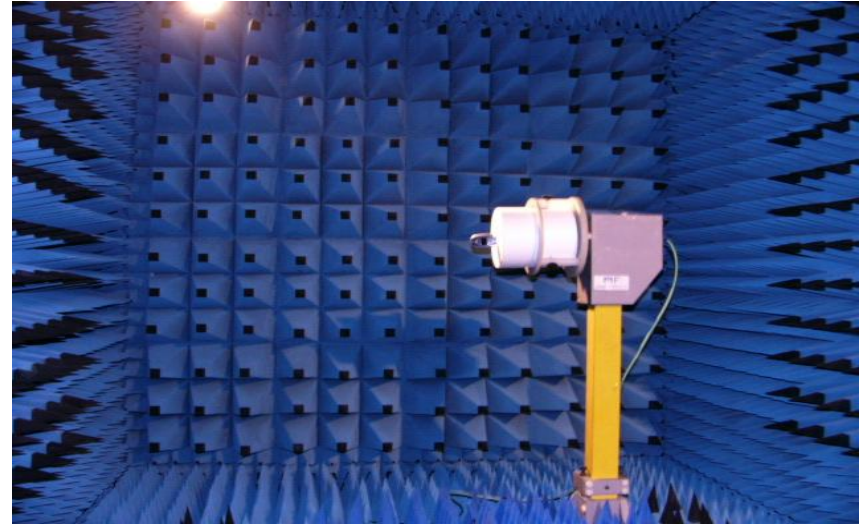
RF Engineer: 安增侠
Testing Date: 2025.03.25

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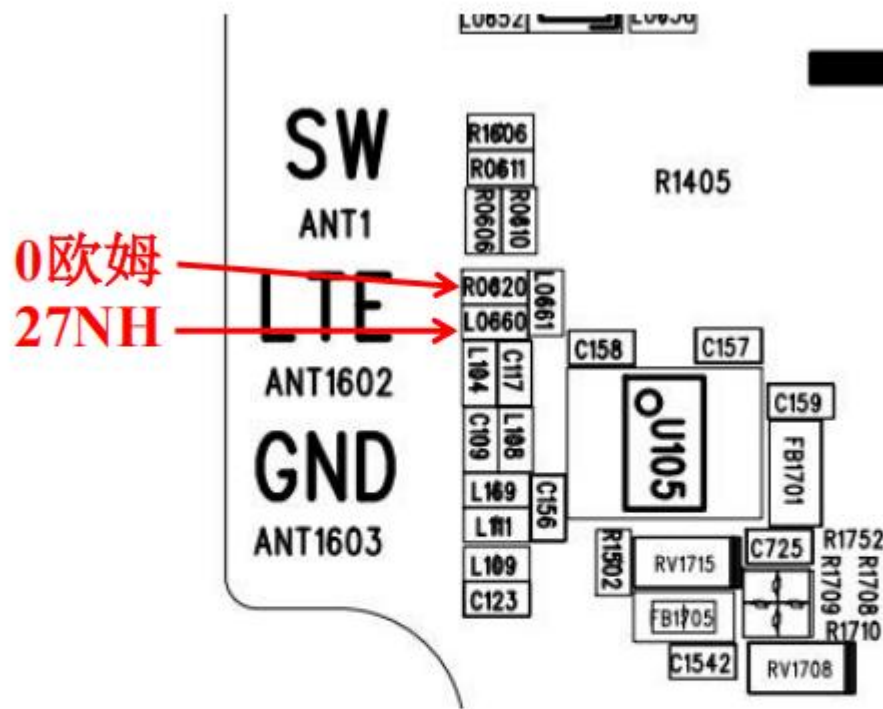
- 1. Testing Item & Equipments**
- 2. Test Data**

1. The Equipment of Active Test

- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B

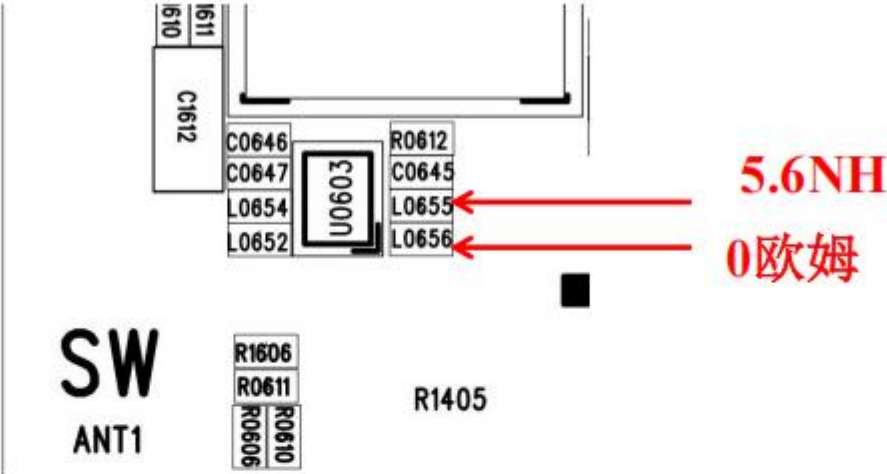


2. Matching Circuits 主天线原匹配不变



主路匹配: L0660:27NH
R0620:0欧姆
L0661:NC

主天线逻辑不变



开关匹配逻辑	开关路径	匹配值	2G频率	3G频率	4G频率
	RF1（L0656）	0欧姆	850/900/1900/1800	W2/4/5/8	B2/3/4/5/7/8/66
	RF2(L0655)	5.6NH			B12/17/28AB
	RF3(L0652)	NC			
	RF4(L0654)	NC			

FM匹配

FM原匹配不变

4. Test Data

	TRP	TIS		TRP	TIS
GSM850	27.2		LTE B4	17.5	
	27.8	-103.2		16.2	-91.8
GSM900	28.1		LTE B5	18.5	
	26.0	-101.3		18.7	-90.7
DCS	24.0		LTE B7	17.8	
	25.1	-103.8		15.5	-90.0
PCS	24.2		LTE B8	18.5	
	23.5	-103.9		16.7	-90.1
WCDMA B2	17.6		LTE B12	15.2	
	16.0	-104.5		14.5	-90.1
WCDMA B4	17.4		LTE B17	13.9	
	16.0	-105.1		14.0	-90.2
WCDMA B5	18.8		LTE B28AB	15.2	
	18.2	-104.5		17.8	-90.5
LTE B2	18.0		LTE B66	16.8	
	16.4	-91.2		13.0	-91.2

5. Antena Gain in dbi

RF antenna	Band	Frequency (MHZ)	pattern	Max Gain (Dbi)
LTE antenna	GSM850	824-894	IFIA	0.2
	GSM900	880-960		0.2
	DCS1800	1850-1990		0.4
	PCS1900	1850-1990		0.4
	W1900	1850-1990		0.4
	W1700	1710-2155		0.4
	W850	824-894		0.2
	LTE-B2	1850-1990		0.4
	LTE-B4	1710-2155		0.4
	LTE-B5	824-894		0.2
	LTE-B7	2500-2690		0.6
	LTE-B8	880-960		0.2
	LTE-B12/17/28	703-803		-0.8
	LTE-B66	1710-2200		0.4
BT antenna	BT	2400-2500	monopole	-0.1
FM antenna	EZFM	880-960	IFIA	0.2