

Antenna Test Report

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TECHNOLOGIES CO.,LTD.***

***Customer: 联合天通
Project: V103***

***RF Engineer: 安增侠
Testing Date: 2025.01.03***

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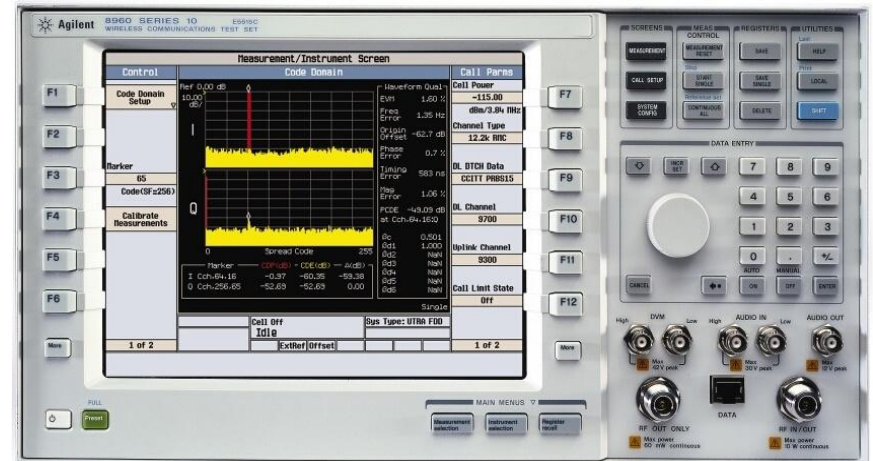
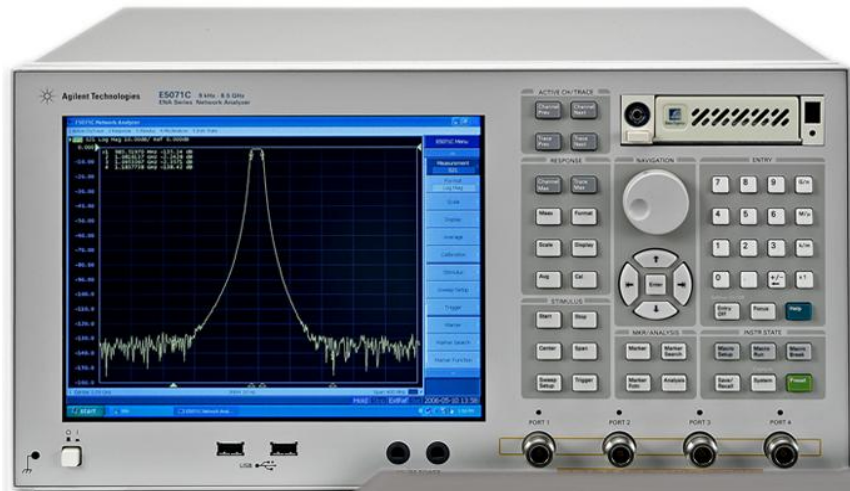
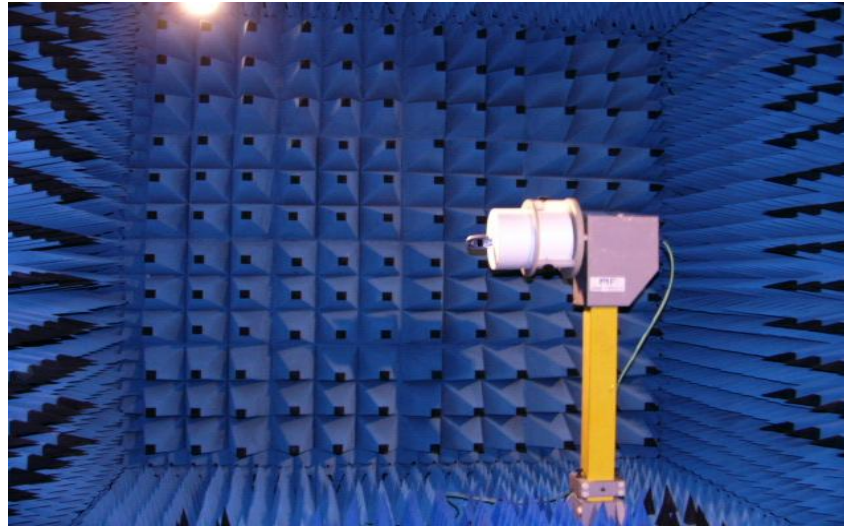
- 1. Testing Item & Equipments**
- 2. Matching Circuits**
- 3. Environmental Disposal**
- 4. Test Data**
- 5. GPS / WIFI / BT Test**

1. The Equipment of Active Test

1: Anechoic Chamber 7x4x3 m (3D)

2: AGILENT 8960 5515C

3: Network Analyzer-AGILENT ENA5062A



2. Matching Circuits 下天线开关逻辑和匹配变更

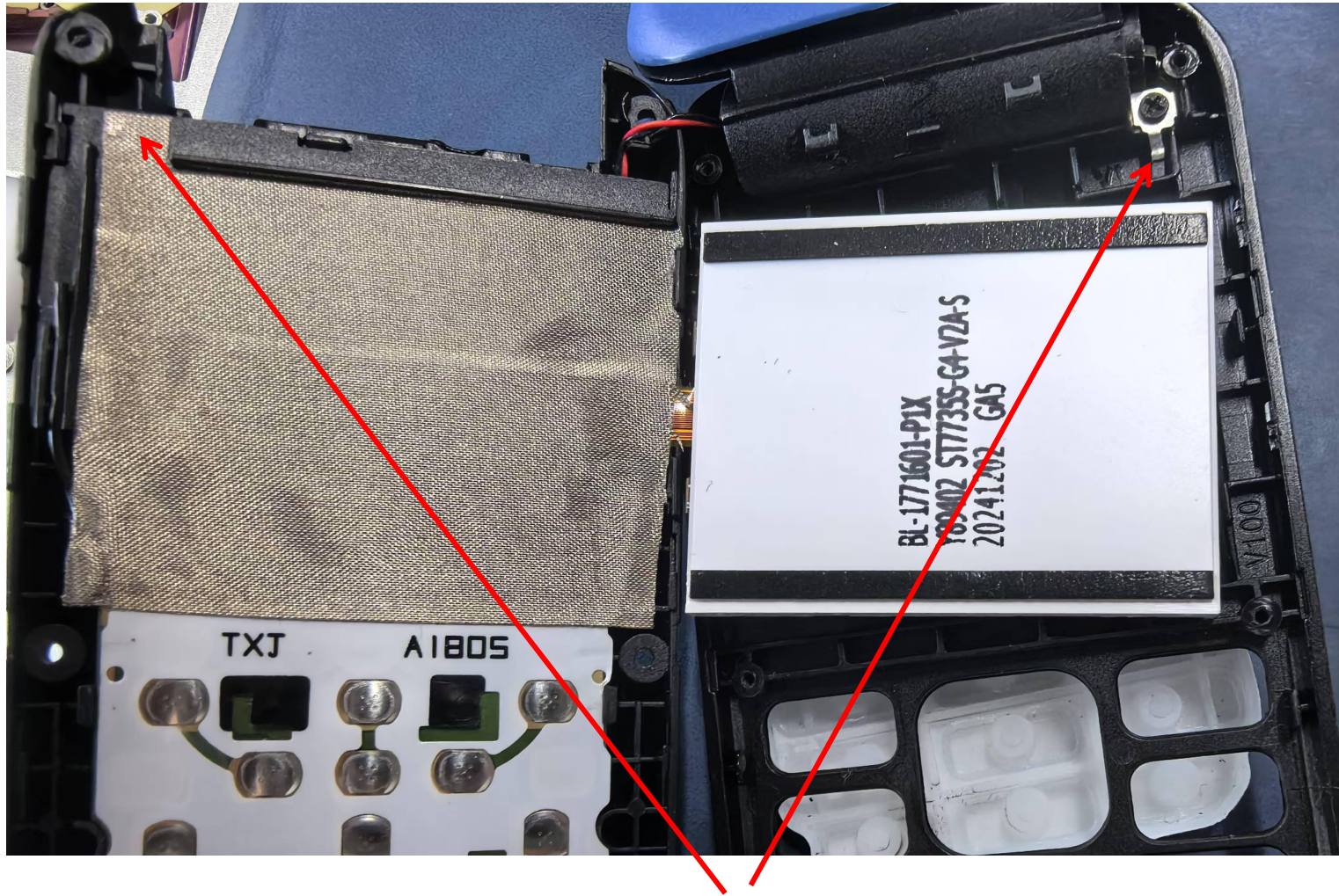
开关匹配逻辑	开关路径	匹配值	2G频率	3G频率	4G频率
	RF1	0Ω	GSM900/1800/1900	W2/8	B2/4/7/8
	RF2	2.2nH	GSM850	W5	
	RF3	22nH			B28AB
	RF4	NC			

并12nH



主板匹配不变

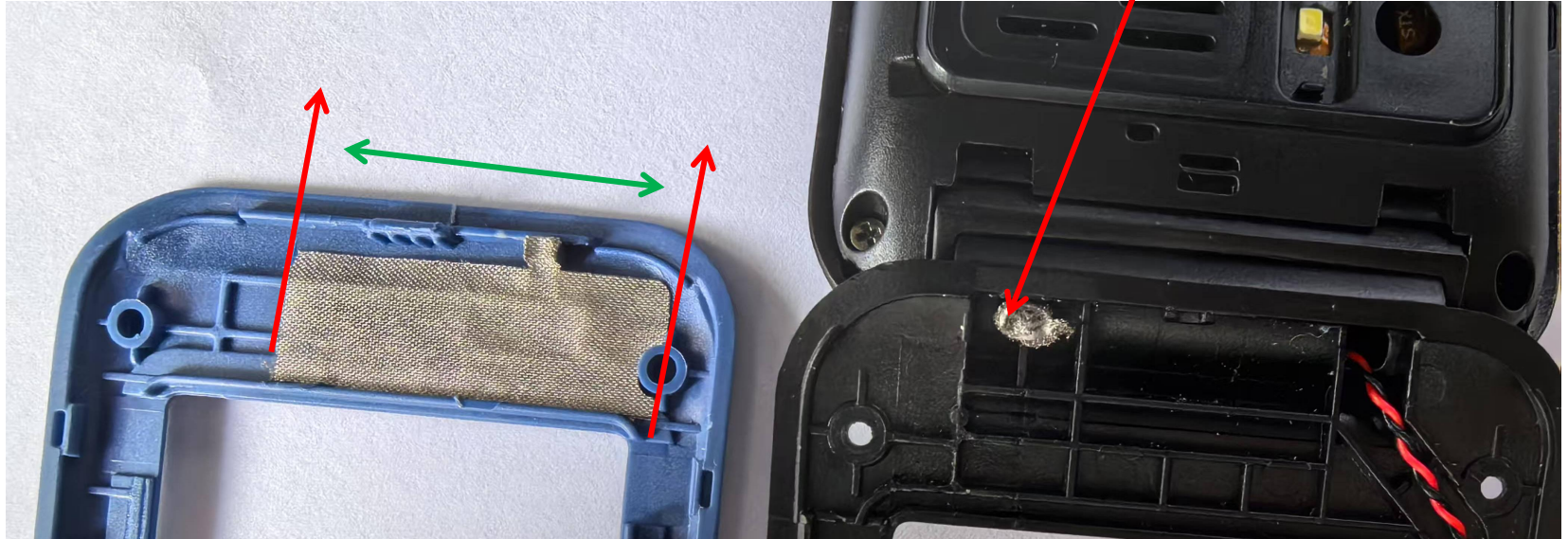
3. Environmental Disposal



主板接地导电布和转轴弹片连接

此处接地必须良好，
不然低频一致性很差

29.5mm



4. Test Data

Band	TRP	TIS	Band	TRP	TIS
GSM850	26.7	-102.5	WCDMA_B8	15.5	-102.4
	27.2			15.9	
	27.7	-101.0		16.3	-97.8
GSM900	26.1	-100.8	FDD_B2	18.6	-91.3
	25.6			18.5	
	25.4	-99.2		18.7	-91.2
DCS1800	23.0	-104.8	FDD_B4	17.5	-92.1
	24.3			17.8	
	25.2	-104.5		18.2	-92.0
PCS1900	25.2	-104.4	FDD_B7	17.8	-86.9
	24.8			17.5	
	24.5	-104.3		17.0	-86.7
WCDMA_B2	18.5	-104.6	FDD_B8	15.7	-88.8
	18.3			15.8	
	18.6	-104.1		16.1	-87.1
WCDMA_B5	17.2	-103.9	FDD_B28A	13.2	-89.0
	17.8			14.0	
	18.8	-102.5		14.4	-89.2
			FDD_B28B	15.5	-89.1
				16.1	
				17.4	-89.6

频段	增益 (dbm)	频段	增益 (dbm)
GSM850	-0.7	LTE B2	0.8
GSM900	-0.5	LTE B4	0.6
DCS1800	0.6	LTE B7	0.7
PCS1900	0.8	LTE B8	-0.5
WCDMA B2	0.8	LTE B28A	-2.0
WCDMA B5	0.6	LTE B28B	-2.0
WCDMA B8	-0.5	BT	0.1

FM天线我司阳台测试

