

深圳赛维通讯科技有限公司

天线测试报告

客户名称：盟博
项目名称：6506
报告时间：20230811

赛维-赛以致远，维以永恒！

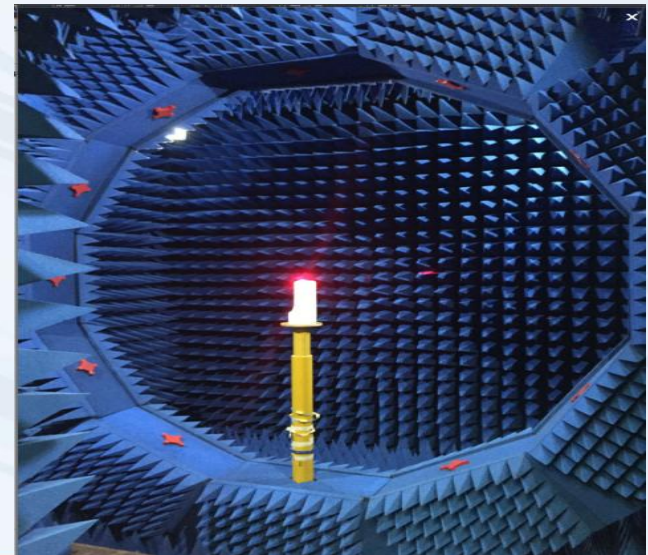
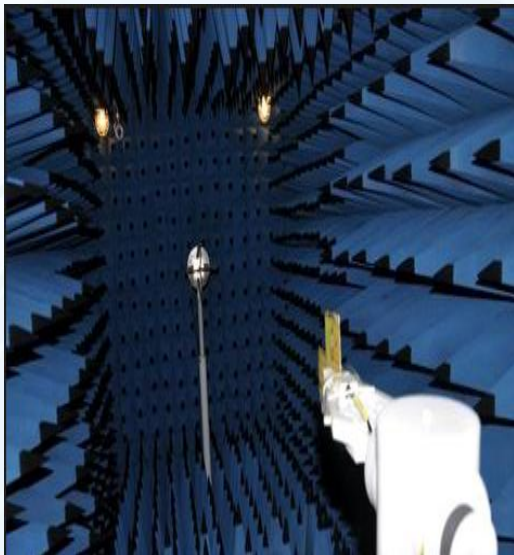
- △ 项目调试简介
- △ 报告版本提要
- △ 测试环境
- △ 主天线暗室数据
- △ 附加说明

项目调试简介

机型	智能机						
板型	主板						
天线概况	主天线	频段		天线状态	天线形式	设计区域	匹配改动
		2G	850/900/1800/1900	FPC	PIFA		
		3G	850/900/1800/1900				
	4G	2/4/5/7/26/28AB/38					
	其它天线	BT/WIFI		FPC	PIFA		
		GPS					
		分集					
	环境处理						

报告版本提要

版本	日期	内容概况
V1	20230809	数据报告



- A Brief Introduction to debugging the project

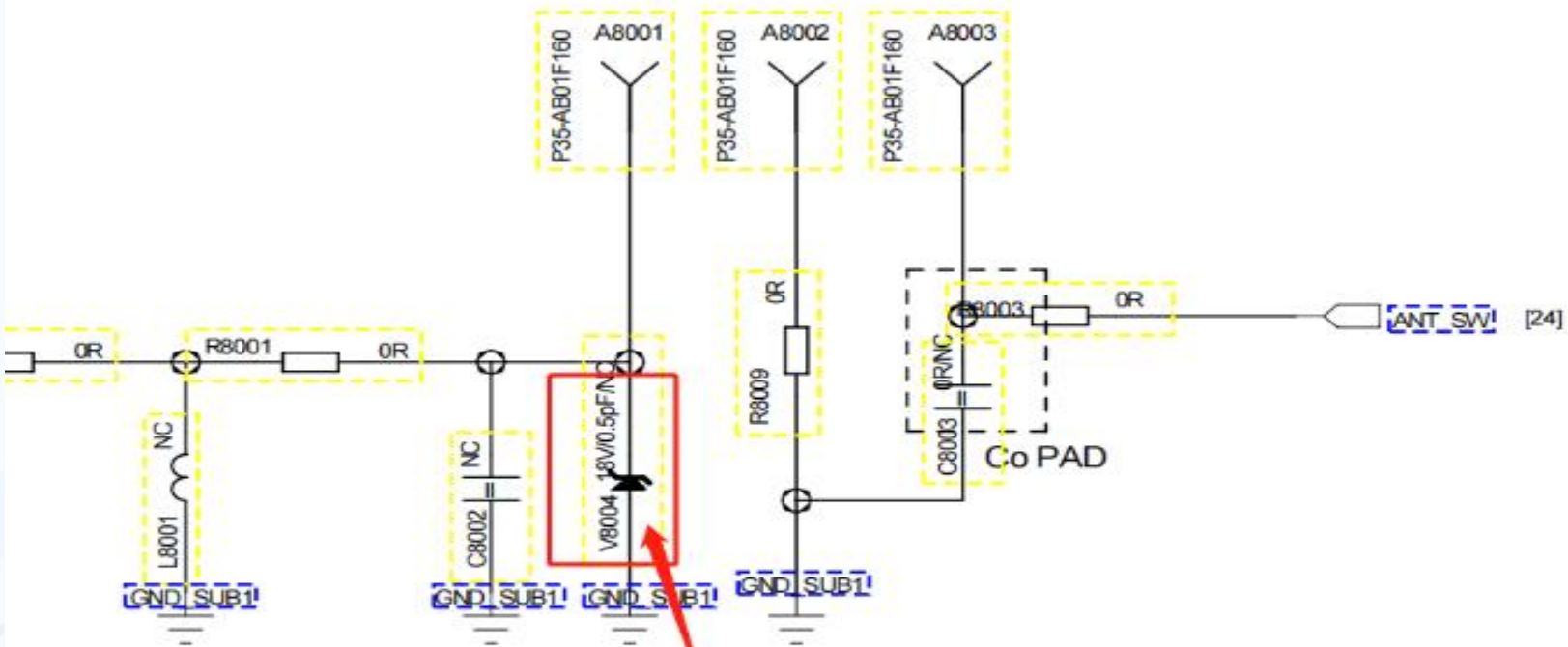
Plate type	The whole machine						
Antenna Overview	The main antenna	Frequency band		Antenna status	Antenna form	Design area	Match the changes
		2G	G850/900/1800/1900 W850/900/1800/1900	Gold-plated FPC	PIFA	The bottom of the phone	YES
		3G					
		4G	2/4/5/7/26/28AB/38				
		5G	N/A				
	Other antennas	BT/WIFI	2.4G				
		GPS	1575.42MHZ				
		Diversity	N/A	Gold-plated FPC	PIFA	Top of the phone	No
Prototype status	5016H (BL53) Debugging machine	Environmental treatment					

SAIWEI TRP&TIS parameter Summary of 5016H(BL53)

BAND	GSM900			DCS1800		
CHANNEL	1	62	124	512	698	885
TRP (dBm)	27.3	27.1	26.6	24.7	24.2	23.1
TIS (dBm)			-102.5			-104.1
BAND	GSM850			PCS1900		
CHANNEL	128	190	251	512	661	810
TRP (dBm)	26.4	26.8	27.6	23.4	25.8	26.7
TIS (dBm)			-100.4			-103.9
BAND	WCDMA850			WCDMA1900		
CHANNEL	4132	4183	4233	9262	9400	9538
TRP (dBm)	16.1	15.2	14.3	16.8	17.3	17.1
TIS (dBm)			-105.9			-108.1
BAND	WCDMA900			WCDMA1800		
CHANNEL	2712	2788	2863	1736	1747	1769
TRP (dBm)	17.1	17.2	17.3	16.3	16.5	17.1
TIS (dBm)			-108.6			-108.3

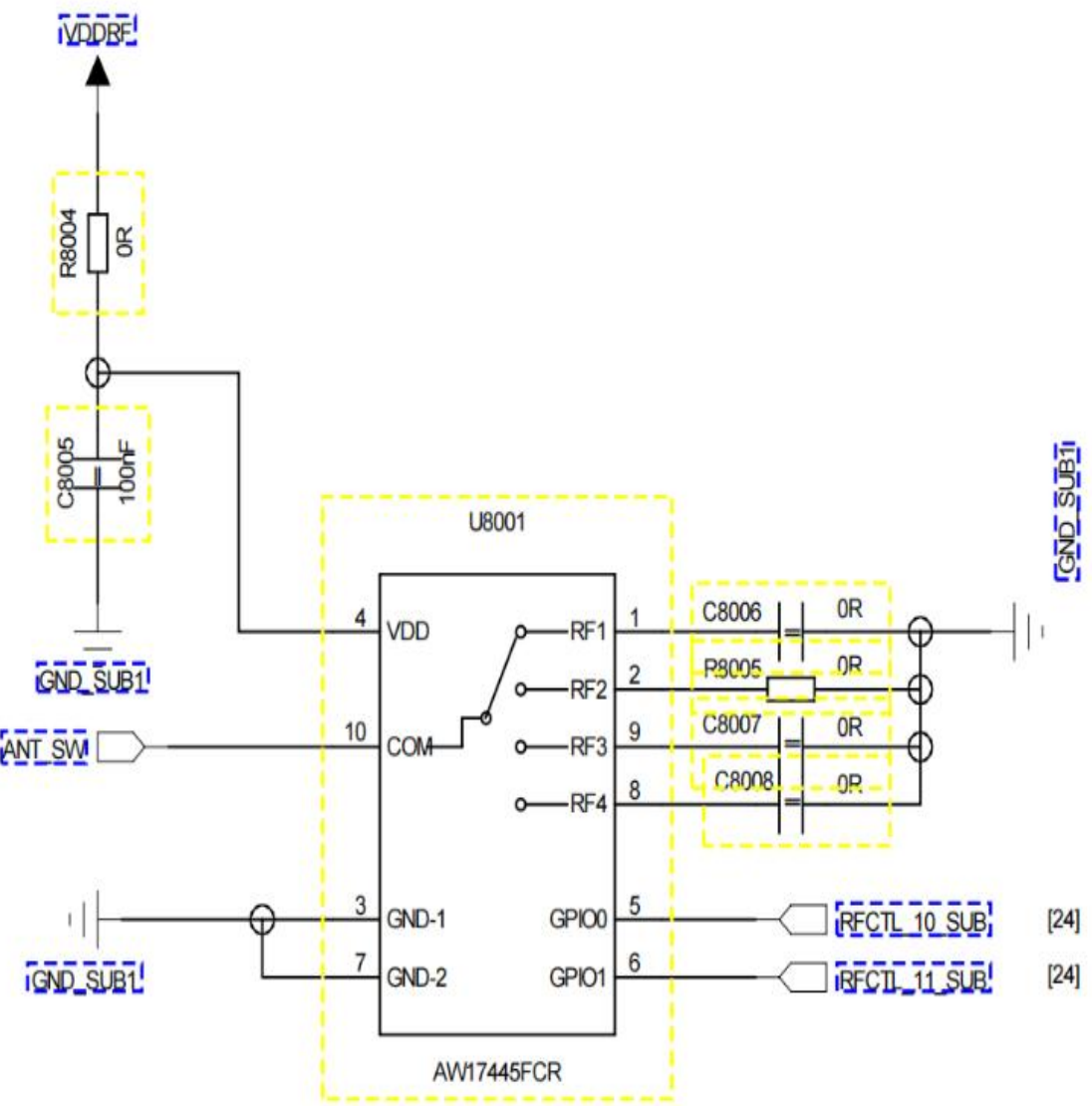
SAIWEI TRP&TIS parameter Summary of 5016H(BL53)							
BAND	FDD-2			FDD-4			
CHANNEL	18650	18900	19150	20000	20175	20350	
TRP (dBm)	18.1	18.2	18.6	17.7	18.1	17.9	
TIS (dBm)			-94.5			-94.9	
BAND	FDD-5			FDD-7			
CHANNEL	20450	20525	20600	20800	21100	21400	
TRP (dBm)	16.9	16.6	16.4	18.1	17.7	17.2	
TIS (dBm)			-88.4			-93.5	
BAND	FDD-26			FDD-28B			
CHANNEL	26740	26856	26990	27410	27510	27600	
TRP (dBm)	17.3	16.8	16.3	17.6	17.7	17.8	
TIS (dBm)			-88.6			-93.1	
BAND	FDD-28A			TDD-38			
CHANNEL	27260	27370	27469	37850	38000	38150	
TRP (dBm)	17.8	17.7	17.9	18.4	18.5	18.6	
TIS (dBm)			-93.6			-90.5	

天线开关逻辑如下



V8004用12NH电感

天线开关逻辑如下

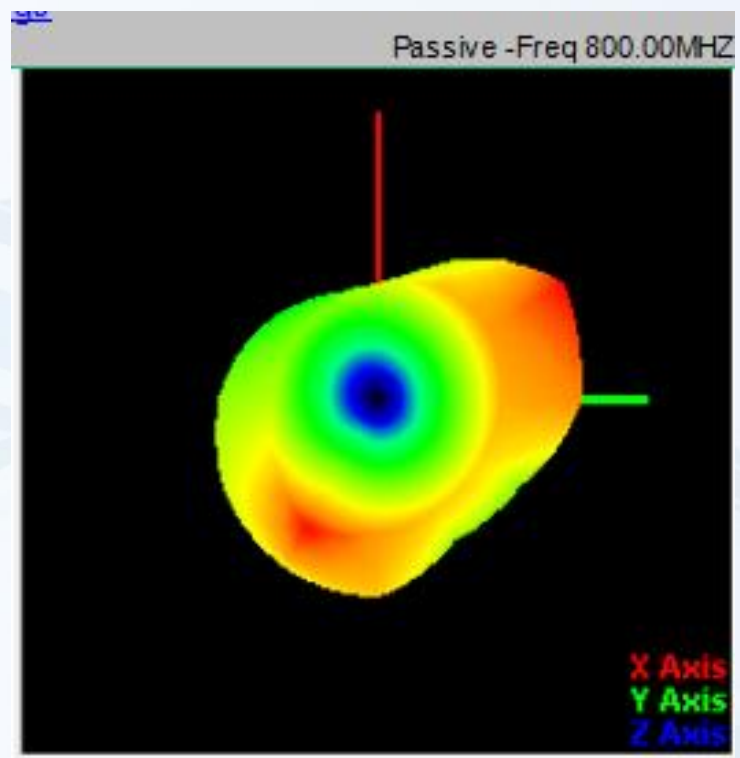


RF2(R8005)用4.7NH控制2G、3G,4G的B5频段。
 RF3(C8007)用12NH控制4G的B12/13/17/28AB/
 RF1(C8006)用0欧控制其它频段

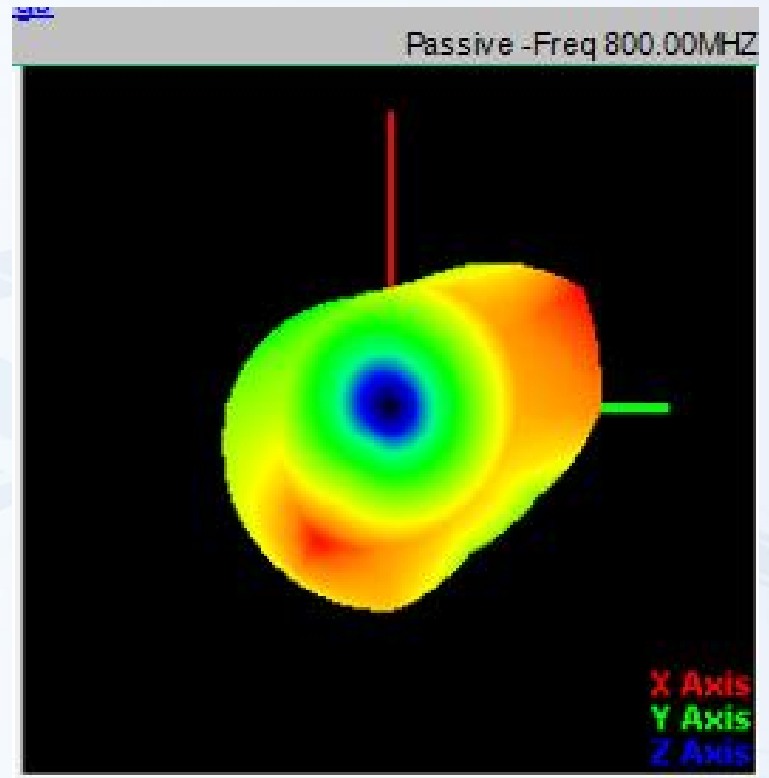
Antenna gain

Standard	Band	Frequency	Gain(dbi)
TDD_LTE	TDD_B38	2580	0.80
FDD_LTE	FDD_B2	1940	0.36
FDD_LTE	FDD_B4	1720	-2.43
FDD_LTE	FDD_B5	840	-3.62
FDD_LTE	FDD_B7	2560	0.70
FDD_LTE	FDD_B26	840	-3.62
FDD_LTE	FDD_B28A	820	-4.42
FDD_LTE	FDD_B28B	710	-5.87
WCDMA	WCDMA_B2	1880	0.5
WCDMA	WCDMA_B4	840	-3.62
WCDMA	WCDMA_B5	1880	0.5
WCDMA	WCDMA_B8	840	-3.62
GSM	GSM850	840	-3.62
GSM	GSM900	880	-2.69
GSM	DCS1800	1720	-2.43
GSM	PCS1900	1880	0.5
2.4G BT/WIFI		2450	0.9
WIFI5G		5700	0.9
GPS		1575	-5.75

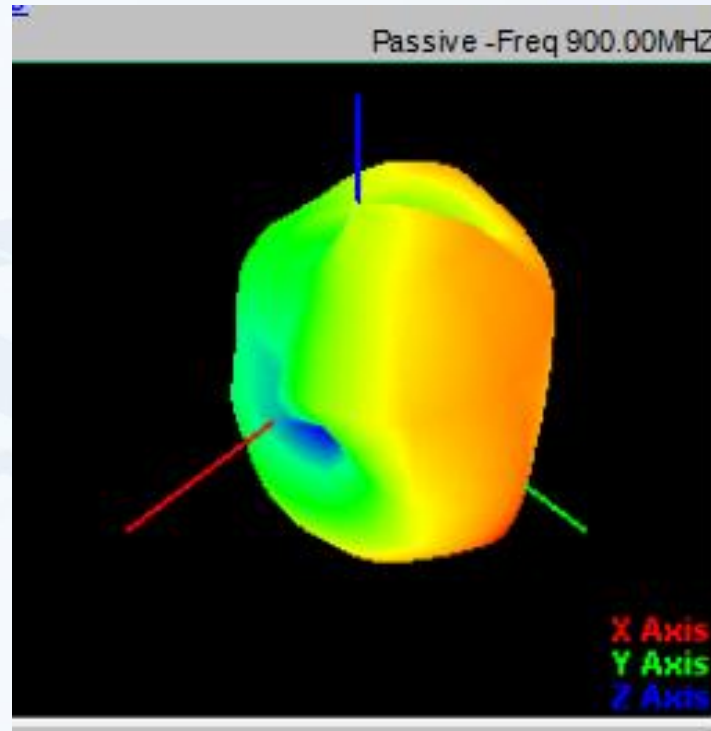
Main antenna apple diagramApple chart



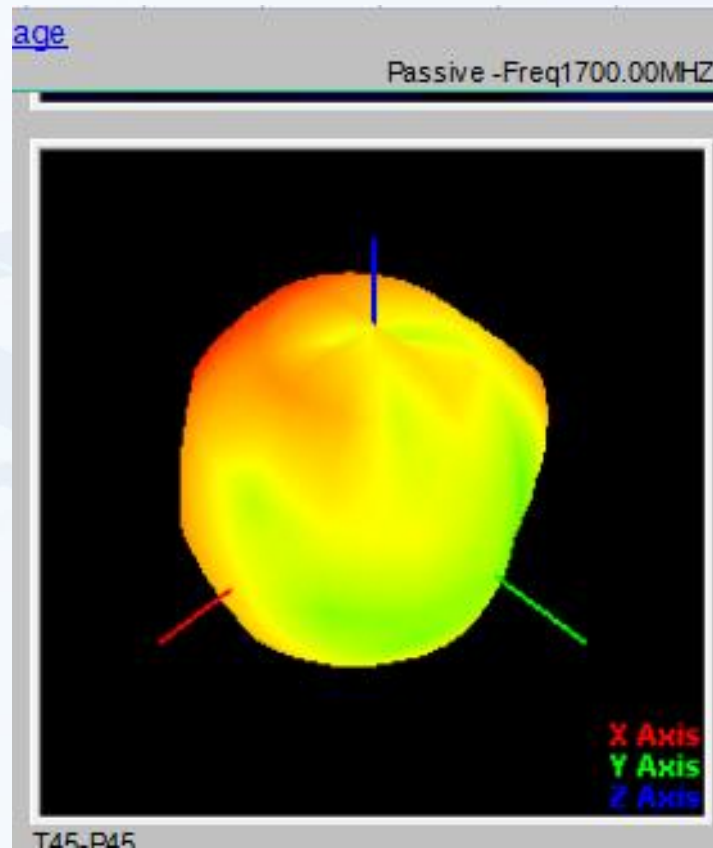
Main antenna apple diagramApple chart



Main antenna apple diagramApple chart

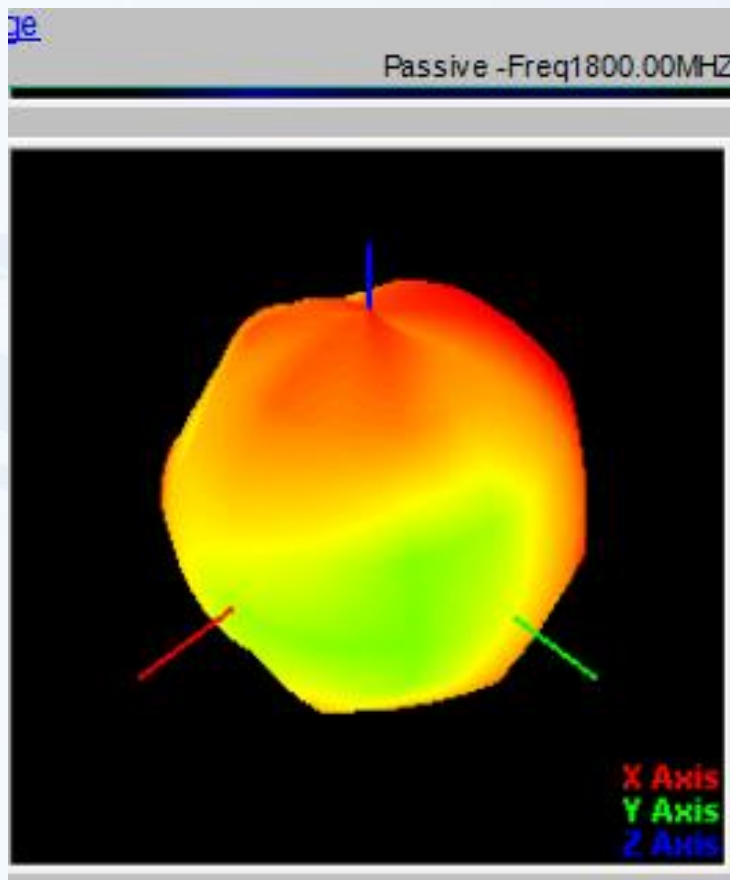


Main antenna apple diagram Apple chart

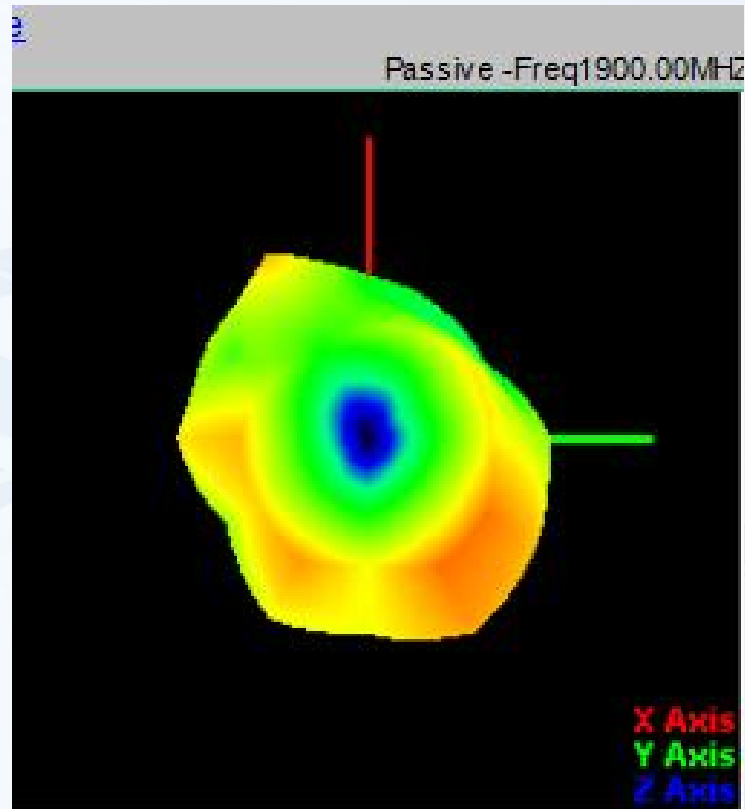


Main antenna apple diagram

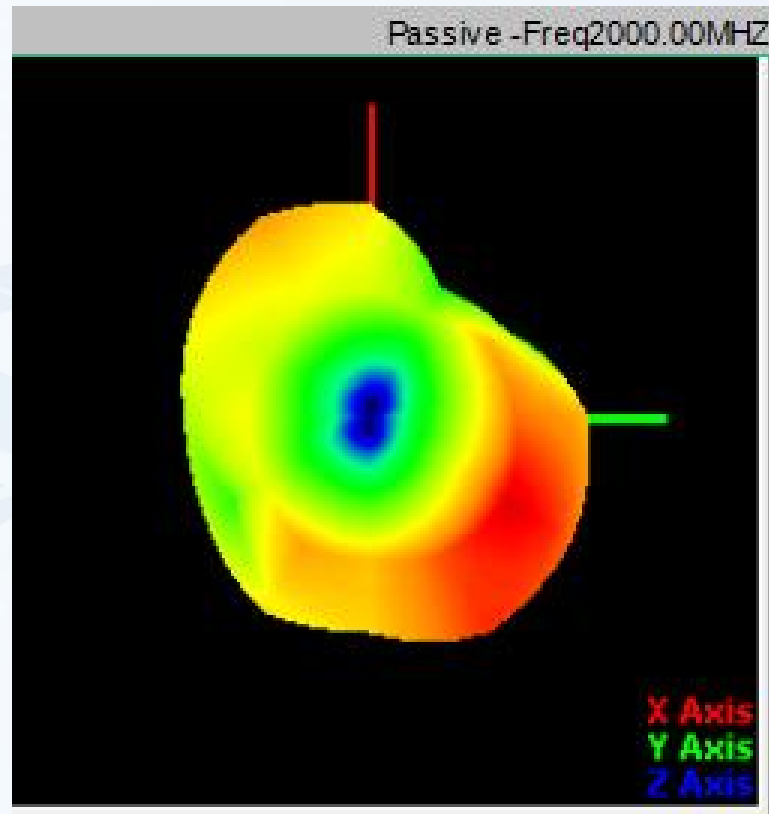
Apple chart



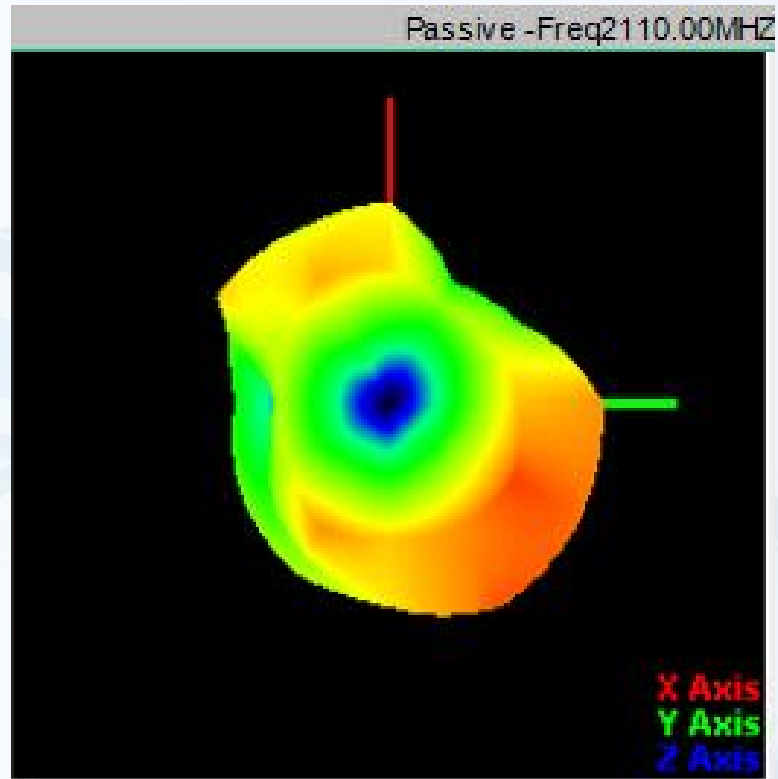
Main antenna apple diagram Apple chart



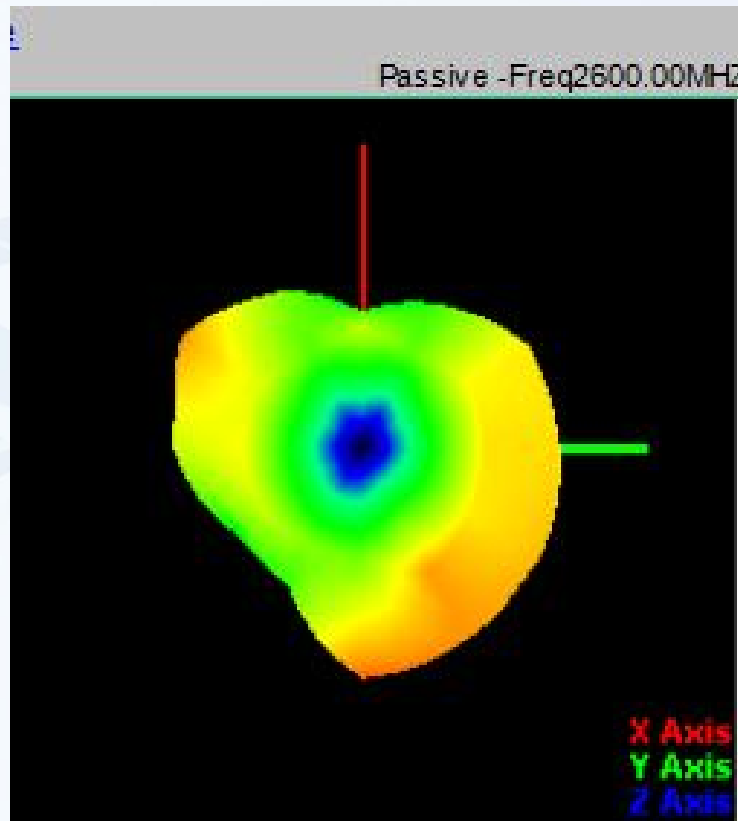
Main antenna apple diagramApple chart



Main antenna apple diagramApple chart

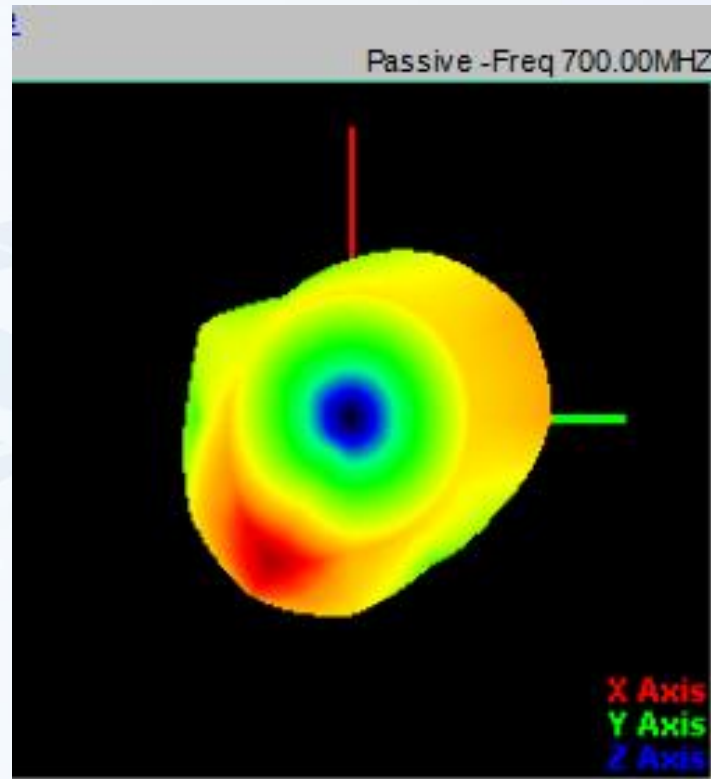


Main antenna apple diagramApple chart

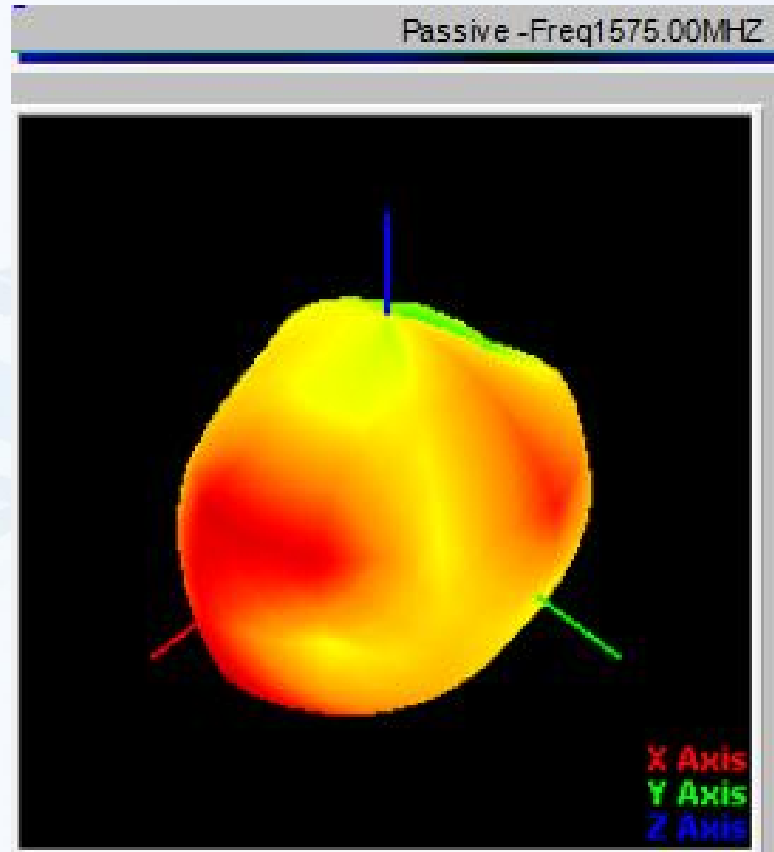


Main antenna apple diagram

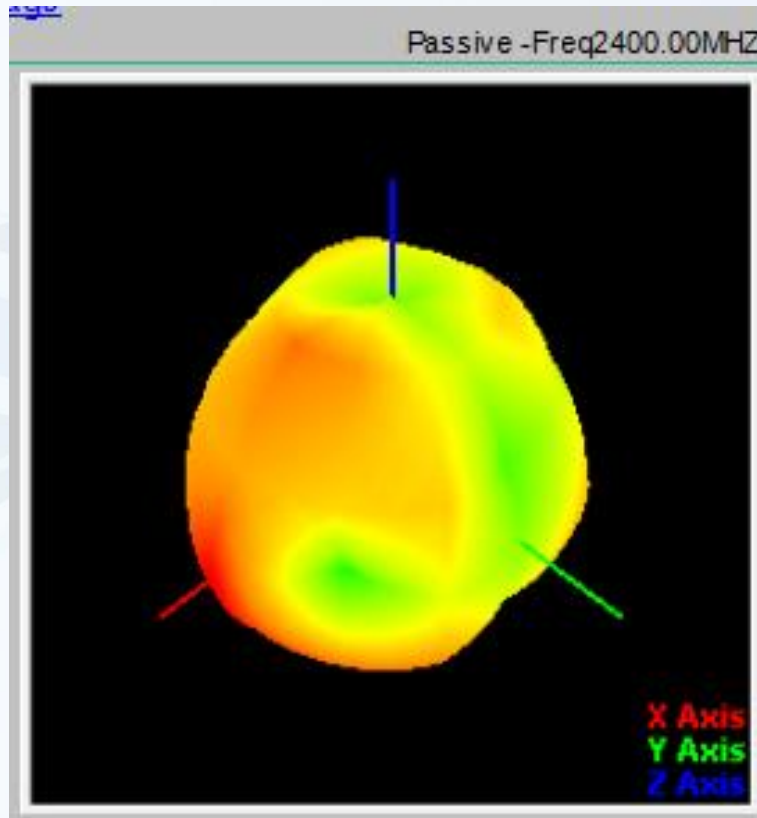
Apple chart



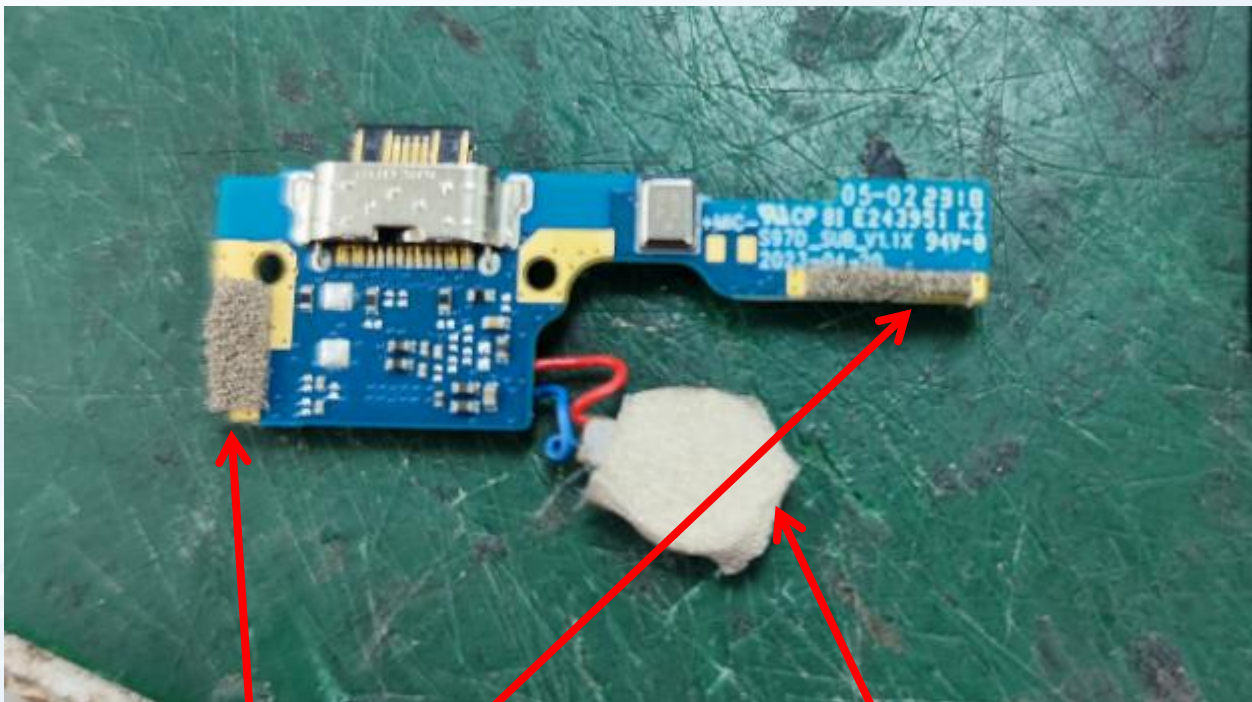
GPS antenna apple diagram



WIFI/BT antenna apple diagram



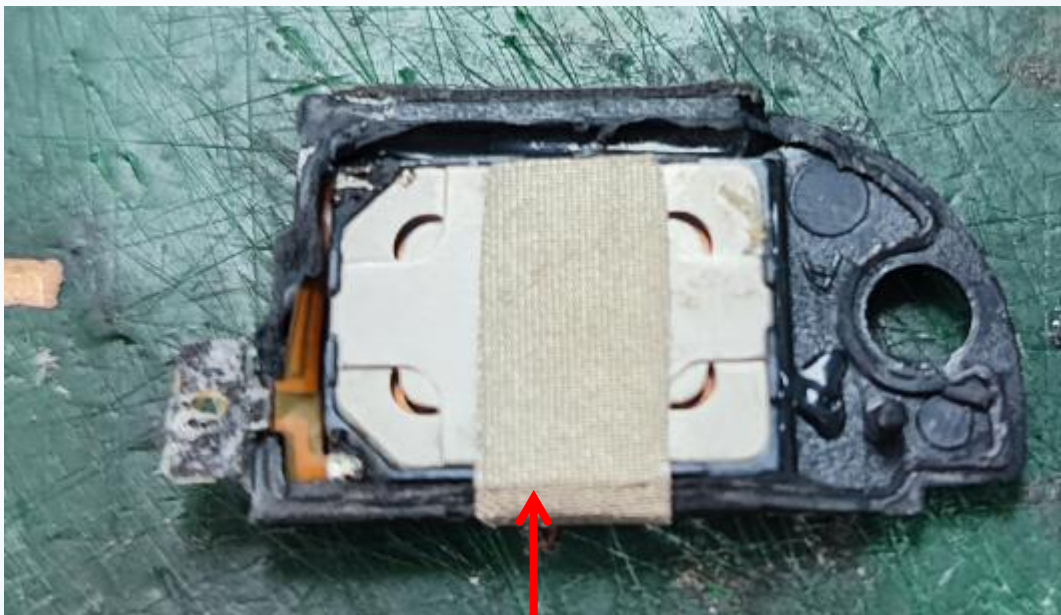
Environmental treatment



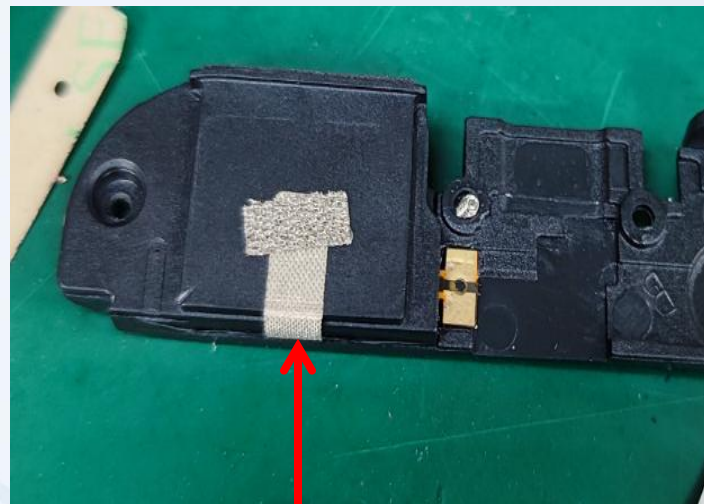
小板露铜部位用导电海绵接地

马达用导电布贴着接地

Environmental treatment

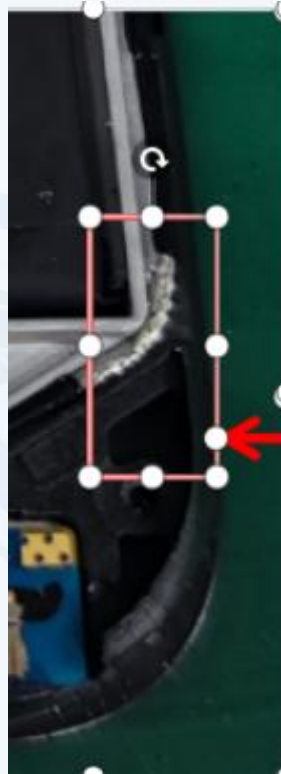


喇叭的导电布导电效果不好，
需要重新贴一张。



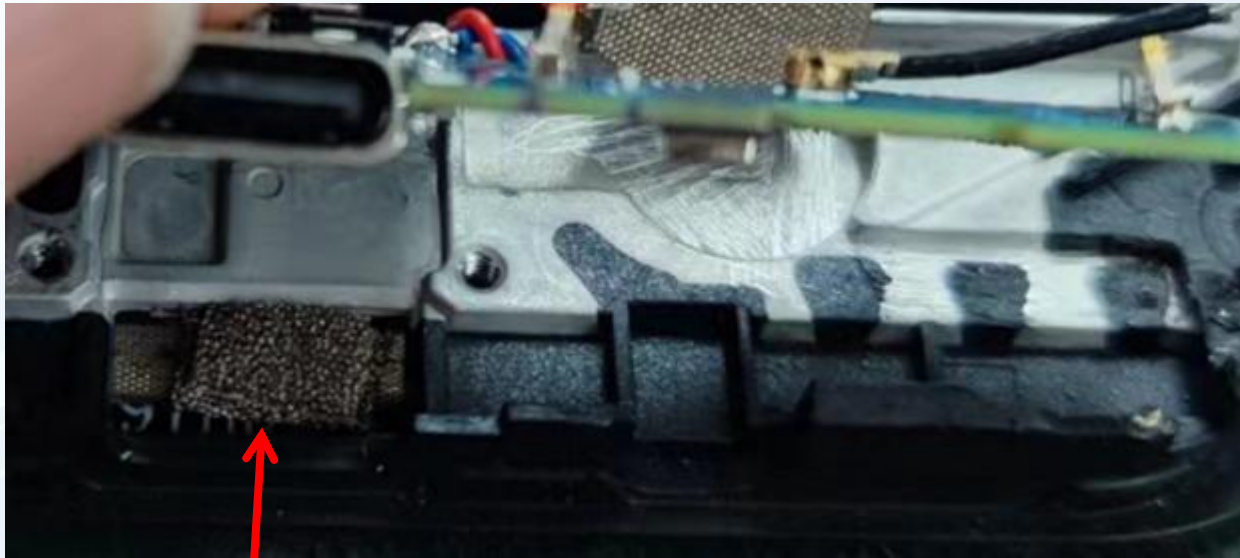
喇叭位置加个导电海绵，与
屏更好的接地

Environmental treatment



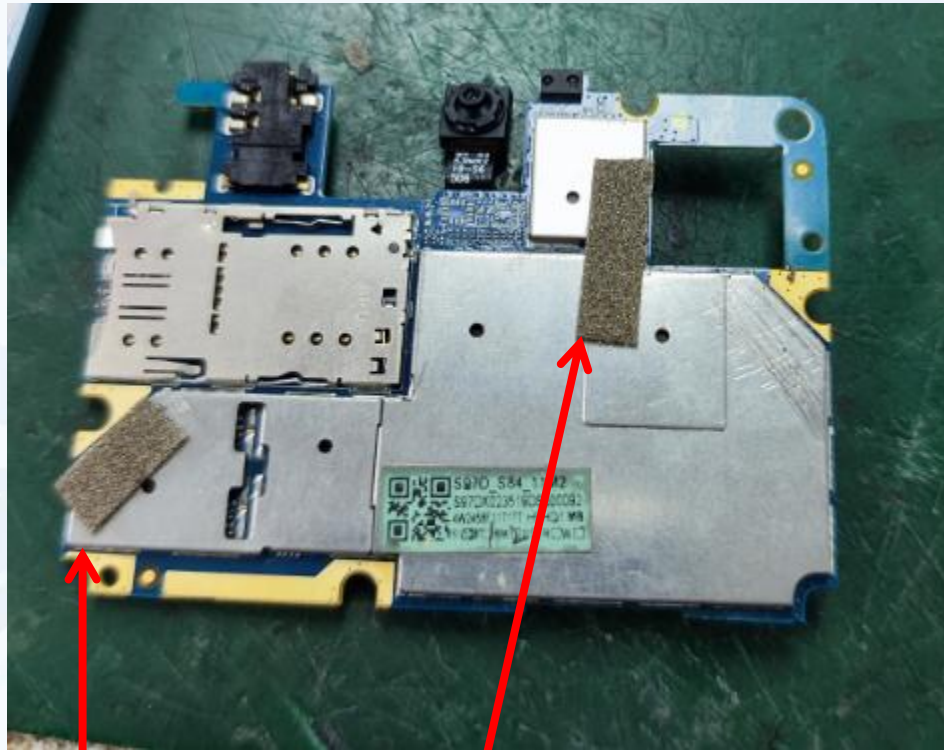
← 同轴线转弯
处剥线，并
焊锡

Environmental treatment



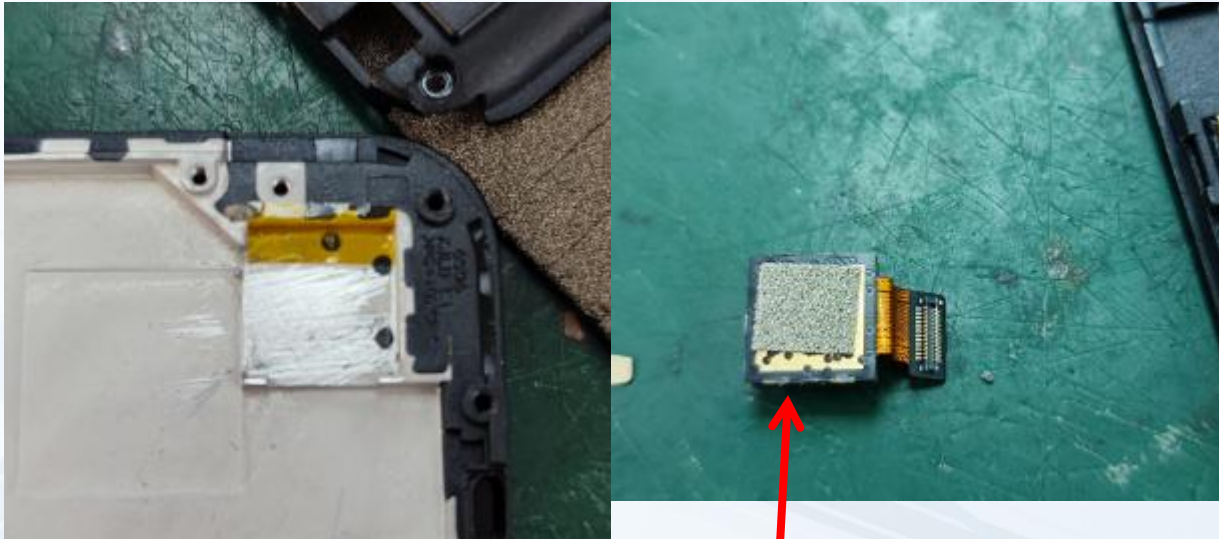
充电口下面贴导电海绵接地

Environmental treatment



主板贴两个导电海绵接地

Environmental treatment



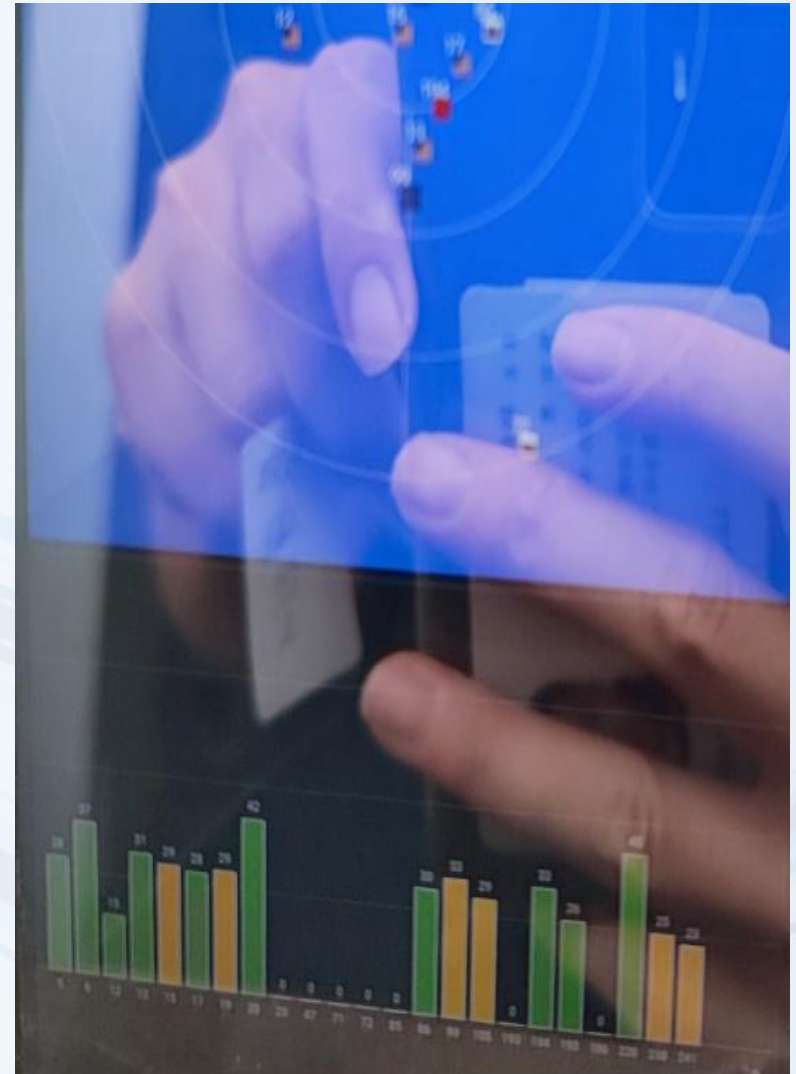
主摄像头贴导电海绵与锌合金接地

GPS Actual test

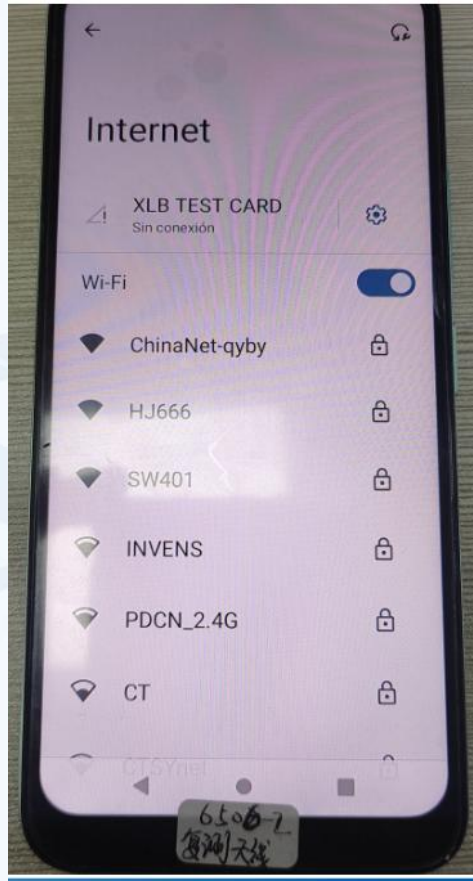
- 该测试天线为大货样品
- GPS天线实陆测试效果:

测试环境	
项目型号	6506
搜星总数	15
In use 卫星数	
最大C/N值	42
CN>40	2
定位时间	90S

测试环境： 4楼窗口。

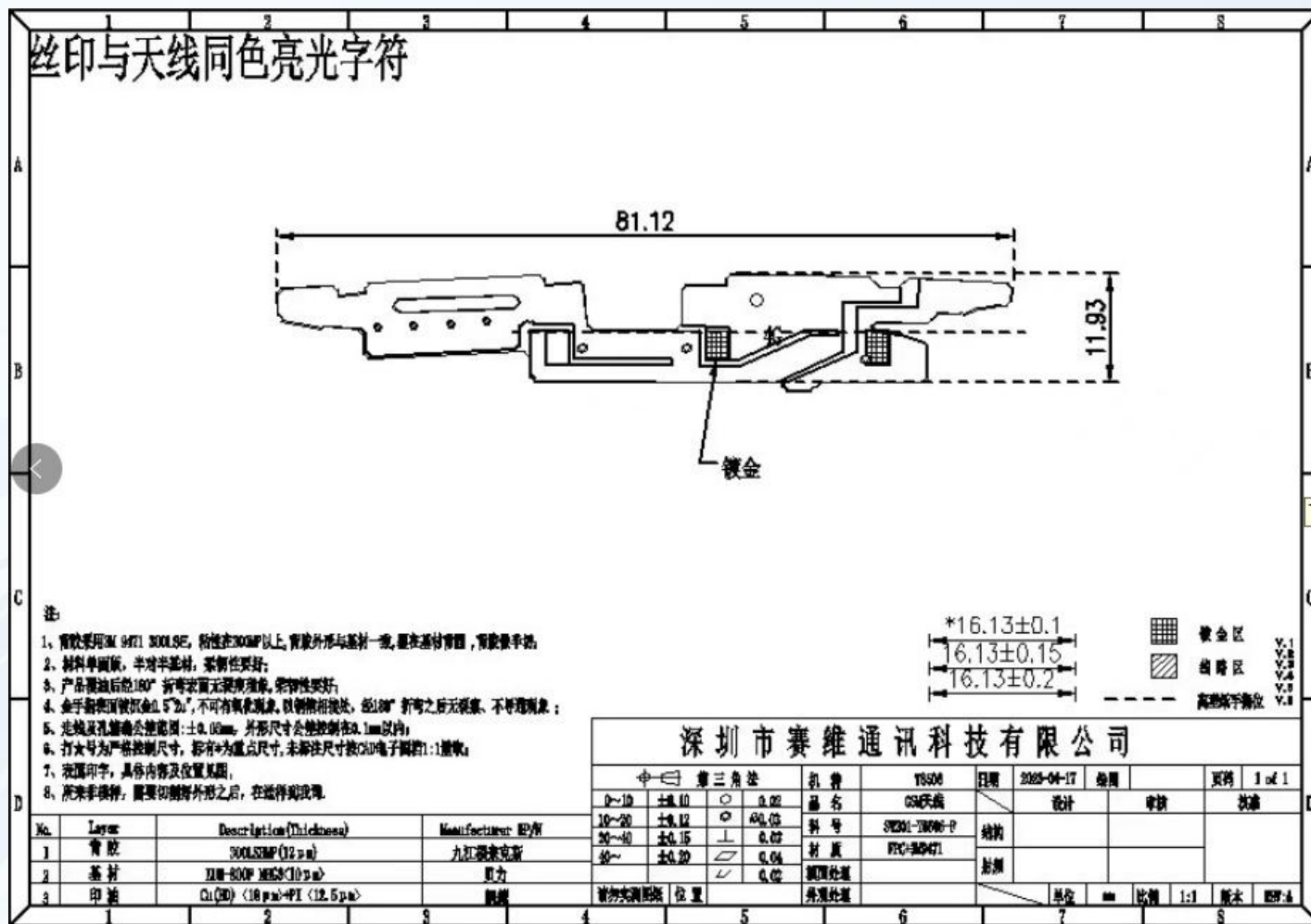


WIFI Actual test

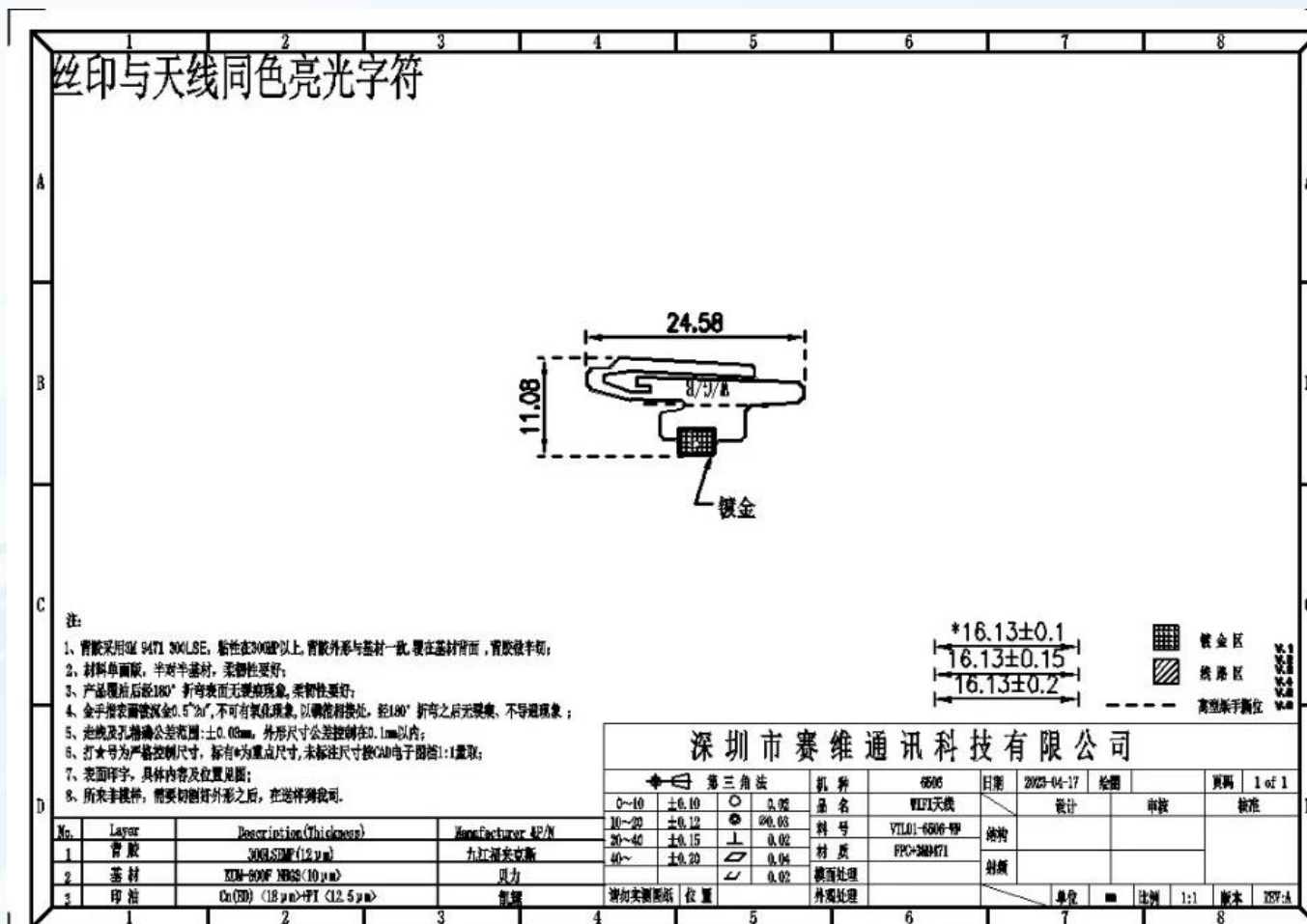


WiFi十米实测测试满格。

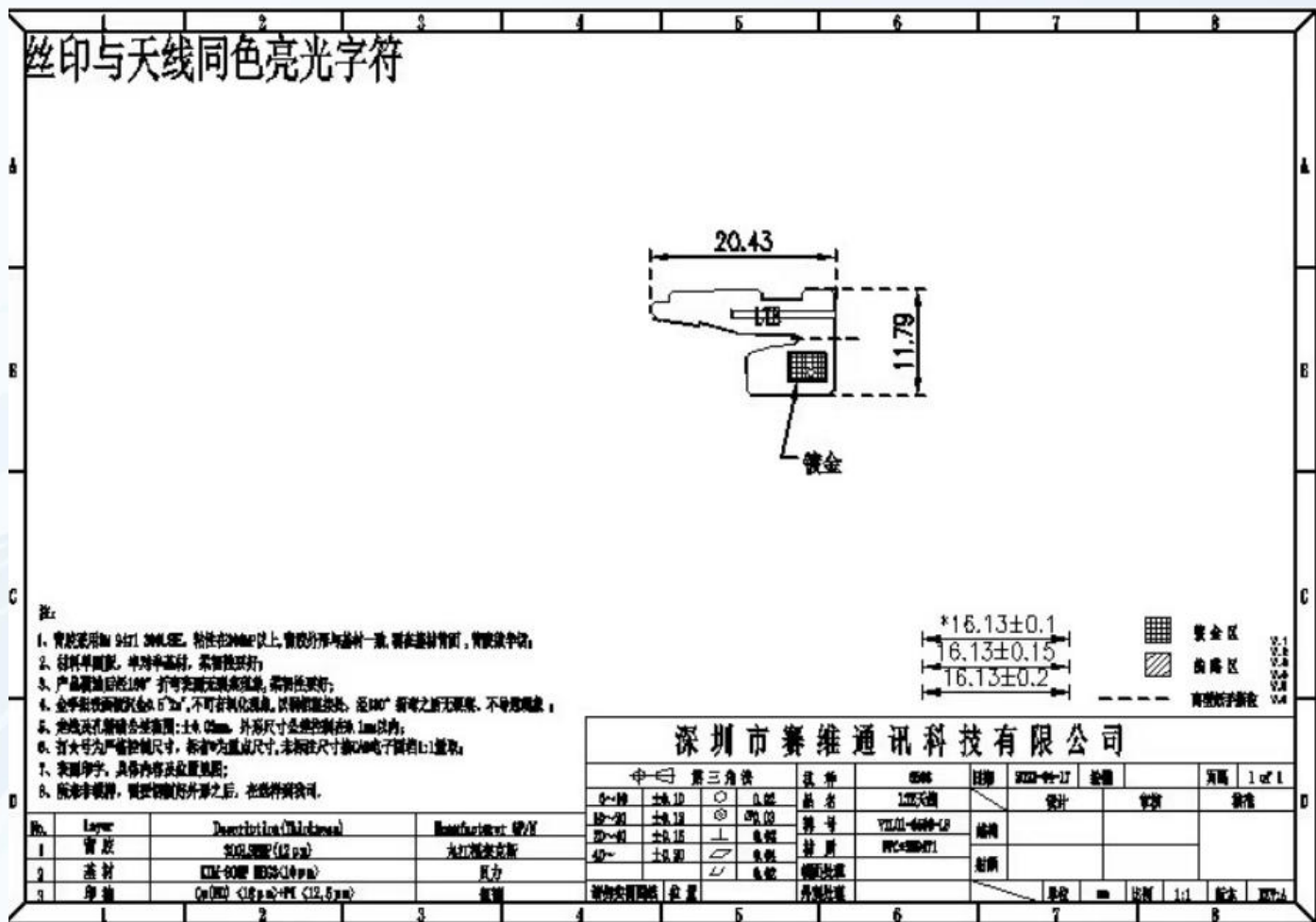
(Main antenna)



(GWB antenna)



(Diversity antenna)



THANKS!

