

深圳市艾汇科技有限公司

天线规格书

Antenna Sample Confirmation From

供应商名称 Vendor Name	深圳市艾汇科技有限公司 ShenZhen Aihui Technology Co., Ltd				
地址 Address	深圳市宝安区西乡街道南昌社区钜鑫科技产业园C栋402 Building C, Room 402, Juxin Technology Industrial Park, Nanchang Community, Xixiang Street, Baoan District, Shenzhen				
样品名称 Sample Name	514K				
产品型号 Part Number	FPC				
样品规格 Specification	线长: 120mm 1代端子 右出线				
检验项目 Inspection Item	性能测试 Performance	外观检查 Total Appearance	结构 structure	其它 Others	检验结果 Inspection Result
备注 Remark					
品质审核 QA Audit		工程审核 Engineer Audit	曹杨	业务确认 Sales Confirm	
签名 Signature	Li Pengfei				
日期/date: 2025. 09. 11					

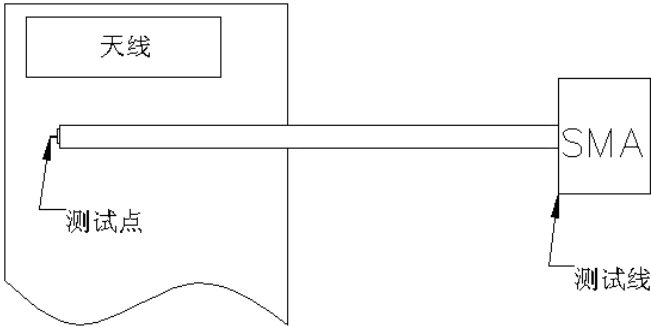
Antenna Test Report

深圳市艾汇科技有限公司

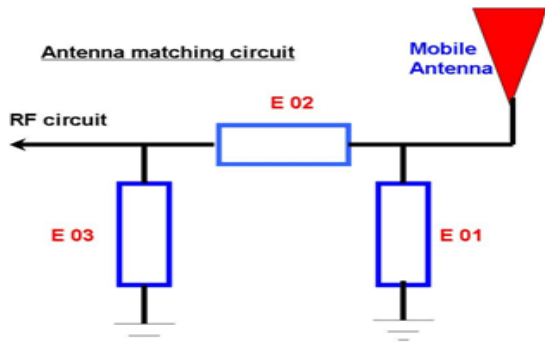
测试单位: 深圳市艾汇科技有限公司 Test by: ShenZhen Aihui Technology Co., Ltd			
材料 Material	FPC+同轴线		
天线类型 Antenna Type	PIFA	极化方式 Polarization mode	Linear
应用场景 Application			
工作频段 Band	2400Mhz-2500Mhz	VSWR	≤2
功率 Power	Max: 2W	阻抗 Impedance	50 Ω
增益 dBi	≥1dBi		
测试设备 Test Equipment	HPE5071C、Shielding Room、3D automatic turntable		
Antenna Description:: 1. Grounding processing and picture description: no 2. Need to change the motherboard to match: no ● Test voltage: 3.6V, check the antenna contact is good before testing. ● The RF cable of the integrated tester is kept in a natural state and can not be curled. Specification:test the specified power level, all indicators must conform to the specifications.			

2、测试制具 Testing tool

- 1: Test the passive parameters of the antenna as accurately as possible.。
- 2; The mobile phone fixture uses a 50-ohm coaxial cable, one end connected to the test point at the back end of the matching circuit on the mobile phone motherboard (front end of the RF test hole), and the other end connected to an SMA connector.
- The schematic diagram is as follows.:



3、天线匹配电路 Antenna matching circuit



修改点/Modify

E01	E02	E03
No	No	No

备注：匹配无修改。

4. S11 测试

4.0 S11 Test Method Description

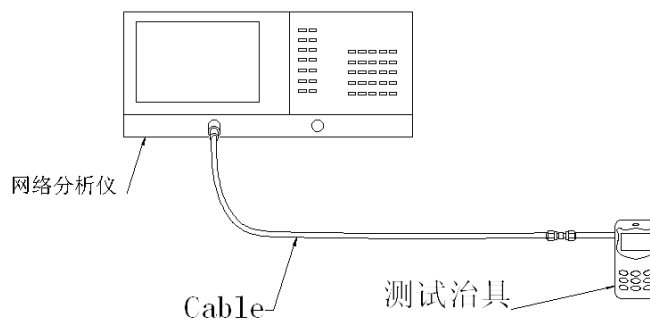
Test Equipment: Network Analyzer (E5071C)

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Test method: Use a 50-ohm cable to connect from the instrument test port, calibrate using a calibration fixture, and connect to the SMA connector of the mobile phone fixture. Record the return loss and standing wave ratio corresponding to the relevant frequency points. The test



schematic is as follows:

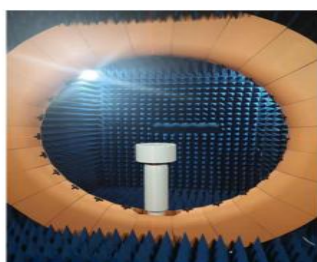
5、Testing equipment and data

6.0 测试设备

Test system: Shielded darkroom

Testing environment: Temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, Humidity $50\% \pm 15\%$

Testing equipment: AgilentE5071C
CMW500

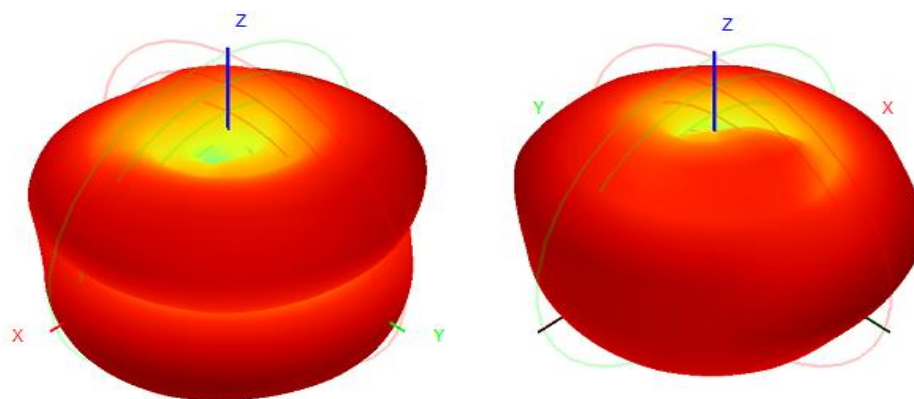


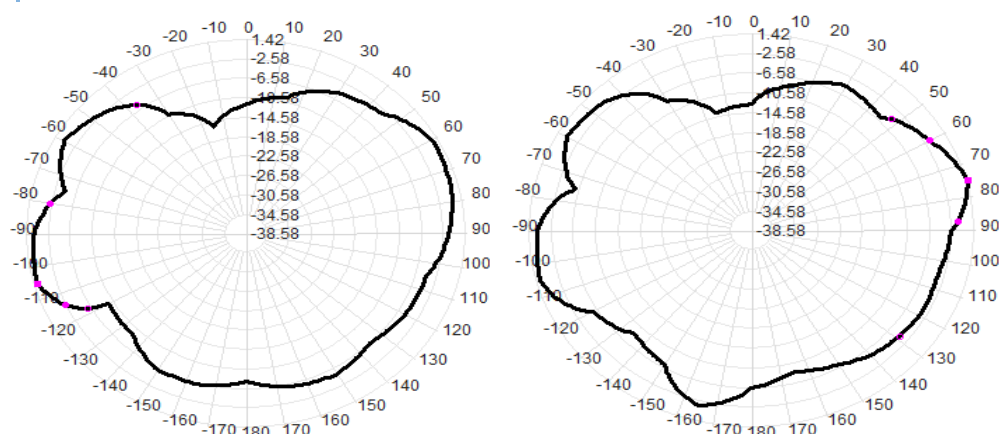
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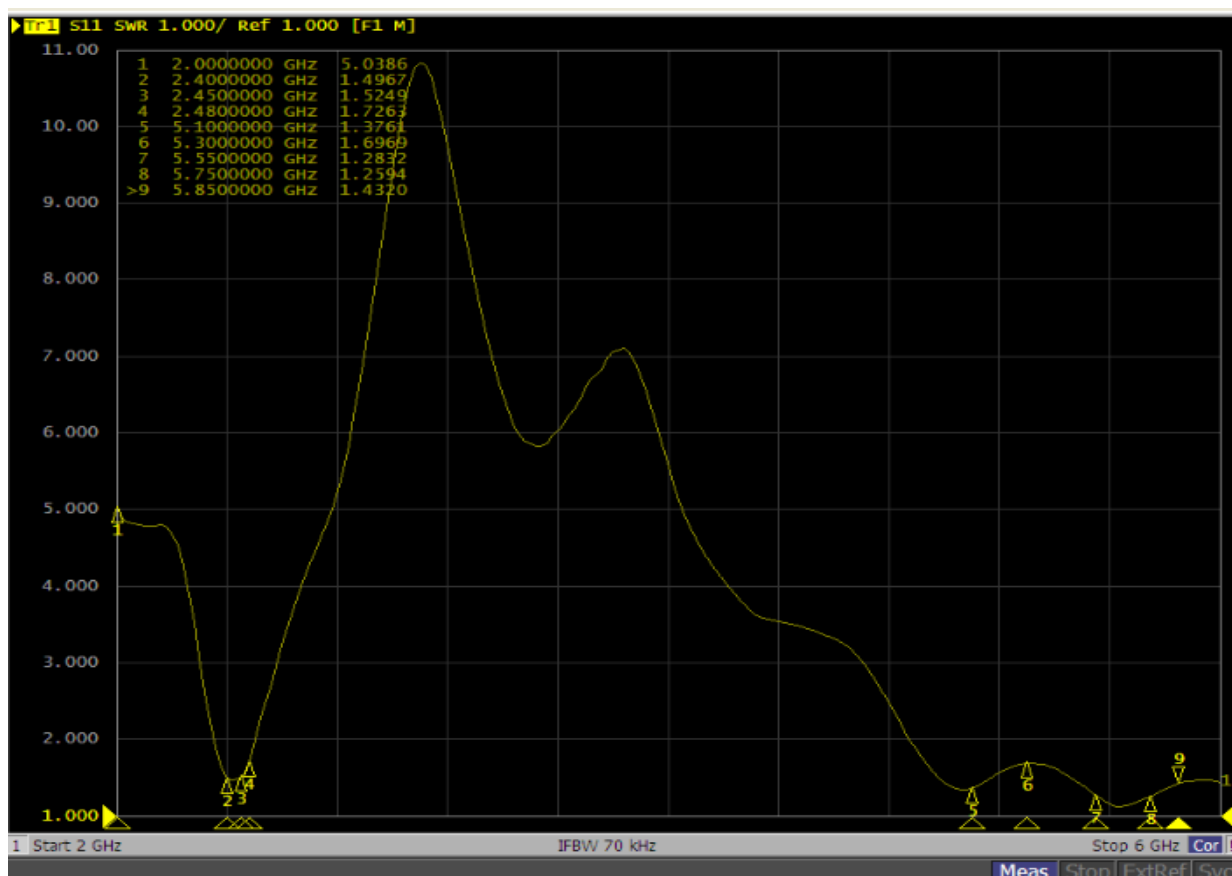
6. Antenna passive test data

测试数据 Test data:		
WIFI 2.4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	58.62	1.06
2410	57.41	1.00
2420	56.55	1.05
2430	57.21	1.42
2440	54.69	1.26
2450	55.25	1.33
2460	54.30	1.40
2470	51.09	1.26
2480	52.30	1.04



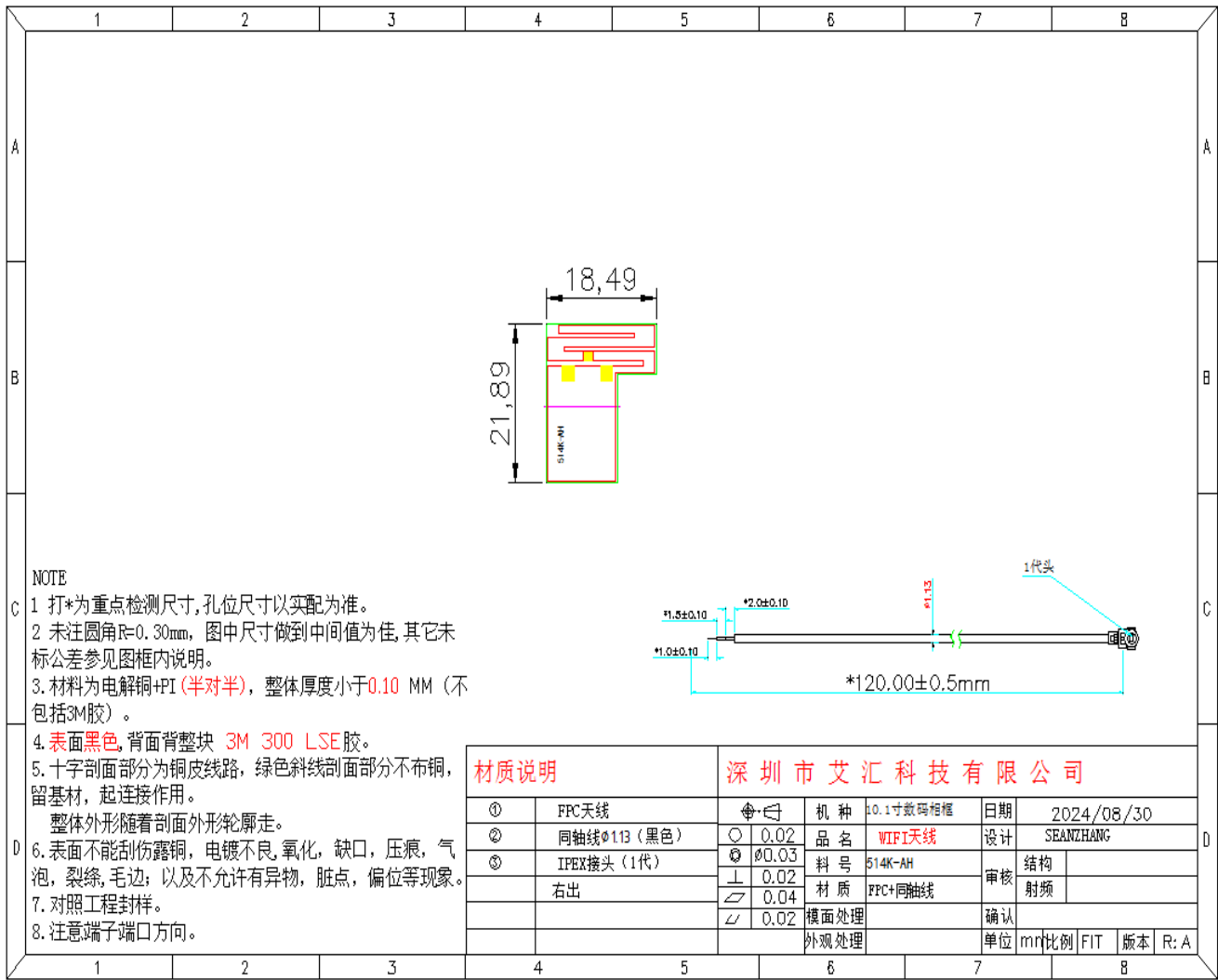


6.2 天线驻波比 Antenna Standing Wave Ratio



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8. 结构图纸 Structural drawings



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