



深圳市麒鑫通达科技有限公司

Shenzhen Qixin Tongda Technology Co., Ltd.

天线测试数据报告

Antenna test data report

Customer: Kyushu

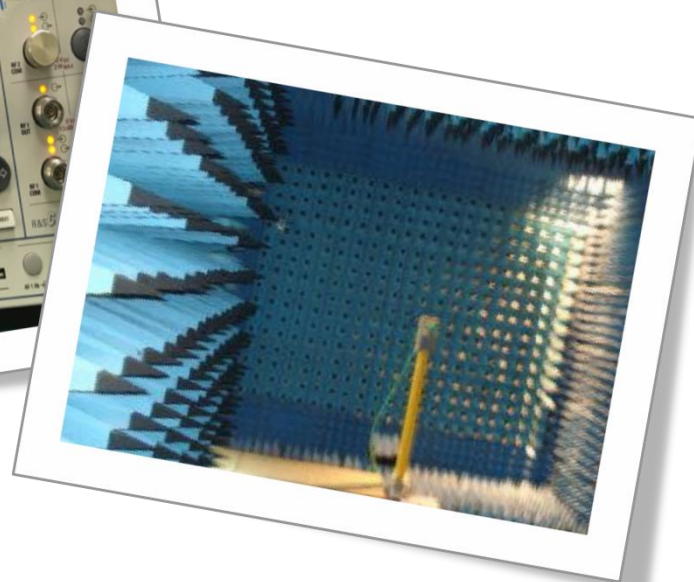
Project: HS4001

Frequency band: WIFI

Engineer: Chen (15014546468)

Date: November 24, 2025

	测试项目	设备
1. S参数/ S data	1. 回损(Return Lost) 2. 驻波比(VSWR)	网络分析仪: Agilent 5071B Network analyzer equipment: Agilent 5071B
2. 耦合功率测试/ Coupled power test	1. 发射功率 (power) 2. 接收灵敏度(level)	综测仪: CMW500/8960 Integrated measuring instrument: CMW500/8960 暗室/Dark room: 6*4*3微波暗室/anechoic chamber





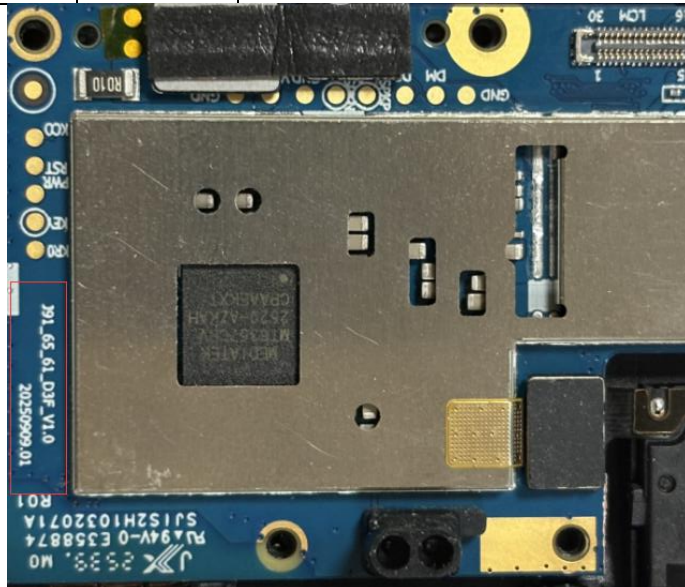
Version	Date	Debugging Overview
	2025-11-19	Preliminary debugging data
	2025-11-24	Mold Antenna Test Data

	测试项目	设备
1. S参数/S data	1. 回损(Return Lost) 2. 驻波比(VSWR)	网络分析仪/Network analyzer: Agilent 5071B
2. 耦合功率测试/ Coupled power test	1. 发射功率 (power) 2. 接收灵敏度(level)	综测仪/integrated measuring instrument: CMW500/8960 暗室/Dark room: 6*4*3微波暗室/anechoic chamber



Illustration of the complete machine and motherboard models

Test Environment	Temperature	22℃	Humidity	52%
Machine Status	Motherboard Version	Motherboard Model: J91_65_61_3DF_V1.0		
	PA Matching			
	Antenna Version	Character: HS4001 W-B		
	Antenna matching	Not changed		
	Software Version			
	Others			



Antenna Radiation Test Data (Active)

Serial Number		Notes	Character: HS4001 W-B				
Test Project		WiFi B			WIFI A		
Faith		1	6	11	36	56	165
TRP (dBm)		13.48	13.69	13.48	9.84	9.48	9.7
TIS (dBm)				-80.47			-66.36

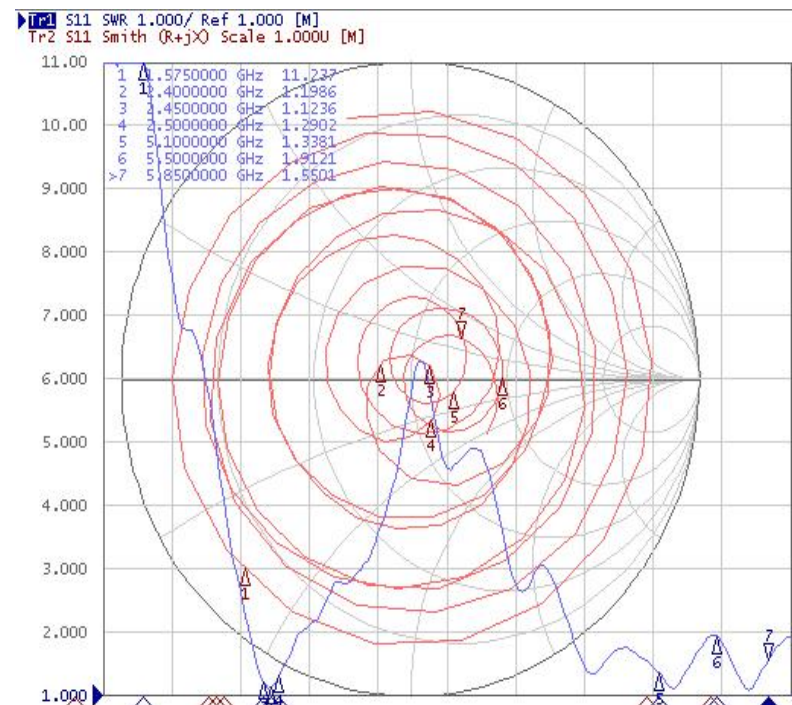
Test Project	Test Environment	Maximum Matching Distance	Normal Bluetooth headset call range	Bluetooth speaker music playback is smooth over a distance
BT	Office	9-10m	5~6m	7~8m

Band	Max Gain	Efficiency
WIFI-2.4G	0.22	35%
WIFI-5.8G	-0.12	31%

2.4G-WIFI

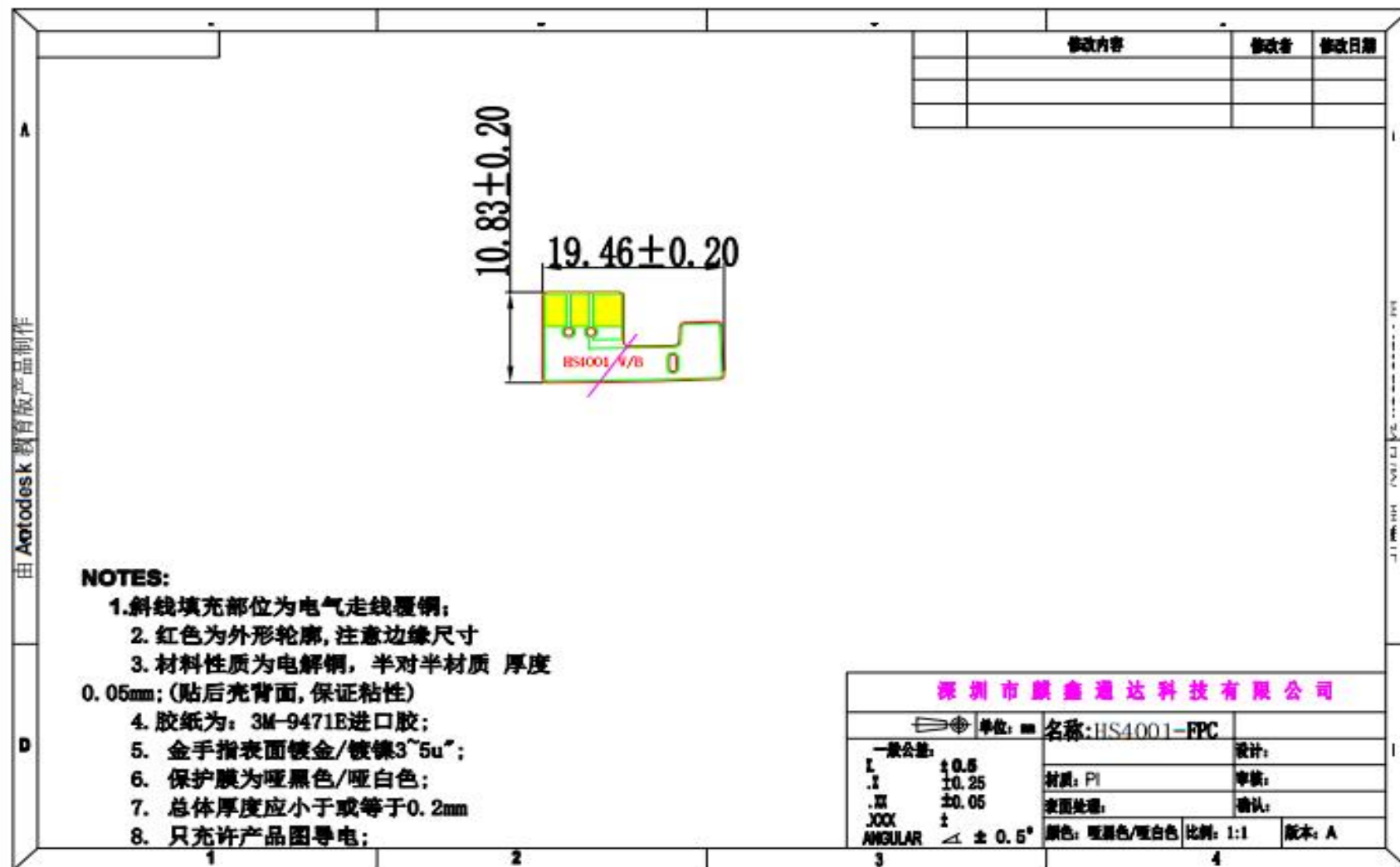


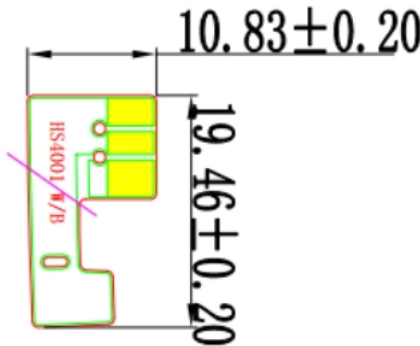
5G-WIFI





As shown in the figure: attach conductive cloth foam to the left and right sides behind the screen, and attach a piece of conductive cloth to the screen ribbon cable for proper grounding;



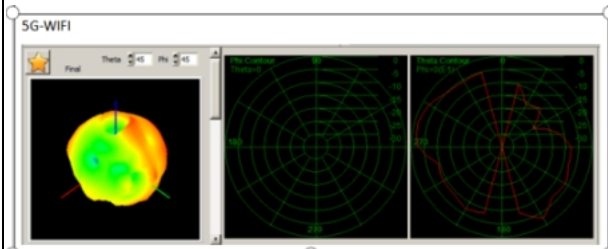
Technical Specification							
Antenna Mode		HS4001	Manufactured	Shenzhen Qixin Tongda Technology Co., Ltd.			
Address		Room 503, Building 211, Tairan Industrial Park, Chegongmiao, Futian District, Shenzhen					
Size & Picture							
	WIFI: PIF						
							
Technical Specification							
Band		Mode	Name	Frequency	Antenna Type	Antenna Max Gain	
BT/WiFi	802.11b/g/n	2.4GHz	Wi-Fi 4	2401-2495	PIFAPIFAPIF A	-1.25	dBi
	802.11a/n/ac/ax	5GHz	Wi-Fi 5	5185-5825		1.47	
	Bluetooth			2400-2500		0.57	
						1.35	

Technical Specification

G/W/B 3-D Patten Plots



W/B: 2460Mhz



G/W/B: 5820Mhz