

承 认 书 SPECIFICATION FOR APPROVAL

Customer Name		Fuwei			
Customer Project Name	F152AN-WB	SDC Project Name	F152AN-WB		
Customer P/N		SDC P/N	WF5223B-0814R-315 (MIAN) WF5224B-0814R-390 (AUX)		
Band	WIF12. 4G/5. 8G/BT				
Version	A0				
	Designer Info	ormation			
RF Engineer	Yong-hui Yang	R&D Diretor	FuXueRong		
ME Engineer	Huang Zongbao				

	Appr	Custome	r Approval		
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Huang Zongbao	Yong-hui Yang	FuXueRong		
Date	2023. 12. 14	2023. 12. 14	2023. 12. 14		

Change Log					
Version	Change Description	Person in Charge	Approval By	Date	

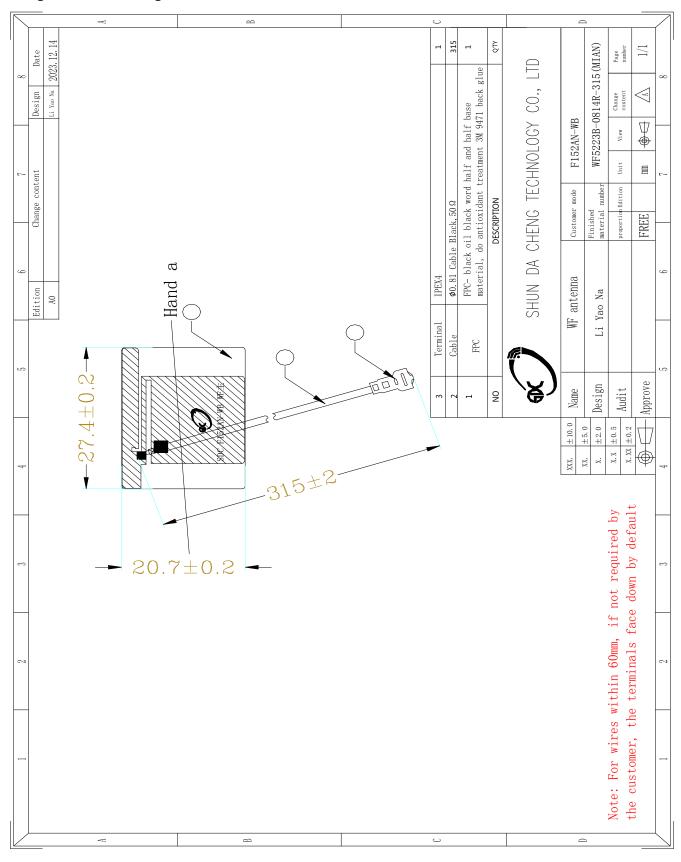


Catalogue

No.	ltem	Page No.
1	Drawing or Product Image	3
2	Dimensions Test Report	4
3	RF Performance Test Report	5-8
4	Reliability Test Report1	9
5	Package Document	10
6	RoHS Control list for Sample	11
7	Install Wizard or Other	11



Drawing or Product Image



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Baoan District, Shenzhen Telephone:0755-27211658 Fax:0755-29485750

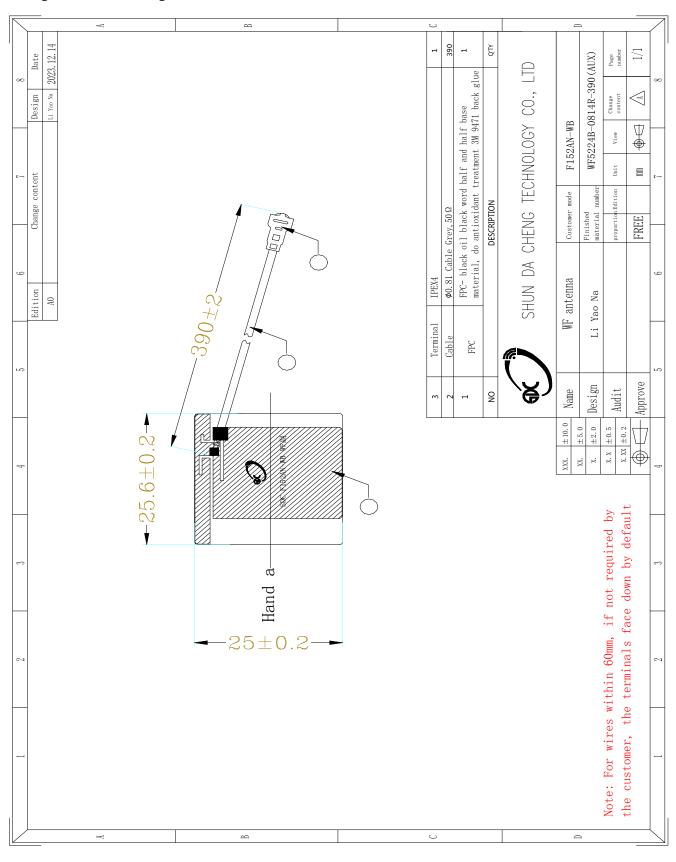


Sample Dimensions Test Report

Test Date	2023. 12. 14	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	27.4±0.2mm	27. 4	27. 5	27. 5	Pass
②width	20.7±0.2mm	20. 7	20. 8	20. 7	Pass
③thickness	0. 1±0. 03mm	0. 1	0.1	0. 1	Pass
4Line length	315±2mm	315	316	315	Pass
	I	Conclusion			PASS
Inspector & Date	Xu Yanfang 20	23. 12. 14	Approval &D ate		



Drawing or Product Image



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Sample Dimensions Test Report

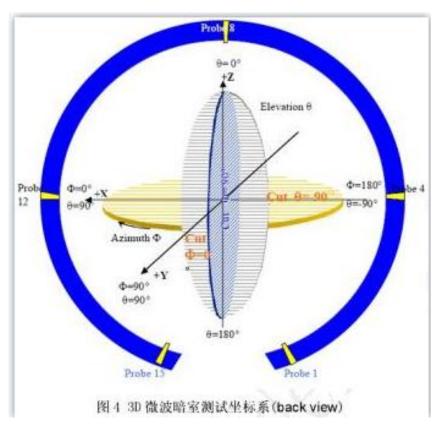
Test Date	2023. 12. 14	Sample Qty.	3	Inspector	Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①length	25.6±0.2mm	25. 6	25. 6	25. 7	Pass
②width	25±0.2mm	25	25. 1	25. 1	Pass
③thickness	0.1±0.03mm	0. 1	0. 1	0. 1	Pass
4Line length	390±2mm	390	391	390	Pass
		Conclusion	1		PASS
Inspector & Date	Xu Yanfang 20	23. 12. 14	Approval &D ate		I



RF Performance Test Report

Antenna Test Equipment Introduction

Test of antenna input characteristics using **Agilent E5071C** and **Agilent 5062A** vector network analyzer; The radiation pattern of the antenna are tested using the guangping 3D near field Anechoic Chamber, and the instrument is used to agilent8960 E5515 and Agilent E4438C. The test coordinates of the darkroom are as follows:



1. S11 Parameter-VSWR

Measuring Method $\,$ is a $50\,\Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the S11 parameter, Keeping this fixture away from metal at least 20cm.



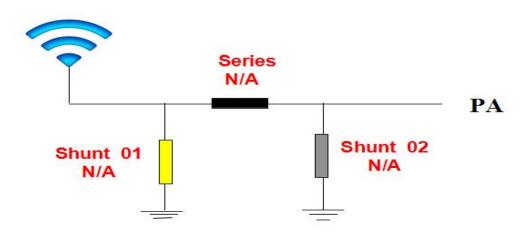
S11 Parameter-VSWR





2. Antenna Matching Network

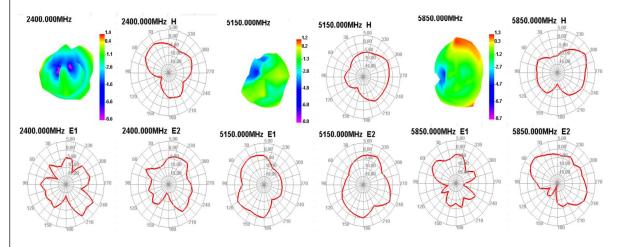
Antenna





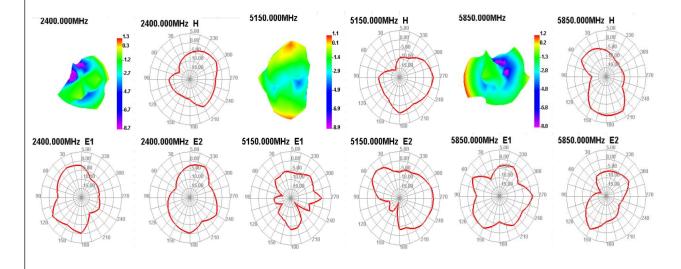
3. Gain & Efficiency

WIFI主Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	40. 54	1. 35
2450	40. 35	1. 32
2500	39. 84	1. 26
5150	34. 33	1. 14
5700	34. 47	1. 18
5850	35. 66	1. 26





WIFI副Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	40. 38	1. 32
2450	39. 42	1. 24
2500	40. 63	1. 37
5150	33. 43	1. 09
5700	34. 51	1. 20
5850	33. 72	1. 15



4.WIFI OTA Data



2. 4G	802.11b, (2.4G)11M		
Channel	СН1	СН6	CH11
TRP	11. 41	11.62	11. 24
TIS	-77. 22	-77. 37	-77. 42

5 G	802.11a, 54M		
Channel	CH36	СН60	CH161
TRP	9. 13	9. 68	9. 37
TIS	-67.51	-67. 38	-67. 19



Reliability Test Report

Test Date	2023. 12. 14	Sample Qty.	3	Inspector	Xu Y	anfang
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
High temperatur e storage	The test was carried out after 24H exposure at +85℃ and 2H recovery	Constant temperature and humidity box	ОК	ок	ок	Pass
Low temperatur e storage	The test was carried out after 24H exposure at -40°C and 2H recovery	Constant temperature and humidity box	ОК	ОК	ОК	Pass
High temperatur e work	At +60℃ for 24H	Constant temperature and humidity box	ОК	ОК	ок	Pass
Work in low temperatur e	At -20℃ under the condition of power work for 24H	Constant temperature and humidity box	ок	ок	ОК	Pass
Salt spray test	The pH value was $6.5 \sim 7.2$, and the temperature of the experimental chamber was $(35\pm2)^{\circ}$ C	Salt spray testing machine	ОК	ОК	ОК	Pass
Connector riveting and drawing force	1.13 线径 ≥10N 0.81 线径 ≥8N RG174 ≥60N RG178 ≥50N	Push pull meter	≥10N	≥10N	≥10N	Pass
		Conclusion				Pass
Inspector &	Xu Yanfang 2023. 1	2. 14	Approval &D			



Install Wizard or Other

Installation process:

Take 1PCS of products and tear off the release paper on the back of the FPC by hand. Then align the positioning holes of the FPC with the positioning holes of the shell (positioning bars or positioning wires) and attach them to the shell smoothly. The specific positions are shown in the figure below:

positions are shown in the figure below:
Precautions for installation:
☐ After attaching the antenna, ensure that the FPC is fully attached to the shell;
\Box The positioning hole is aligned with the position of the housing positioning column;
☐FPC edges are aligned with housing edges;
☐When connecting the antenna with terminal to the PCBA end of the motherboard, align the terminal first
and then close it vertically.
☐When removing the antenna terminal, use a tool (such as a dedicated crowbar) to lift the terminal
vertically. Do not pull the cable to remove the terminal directly



ROHS certificate of the product



Certificate Number: UNIB23083106HC-01

Product: 5G/4G/WIFI/GPS/BT antenna

Applicant: ShenZhen ShunDaCheng Technology Co., Ltd.

4th Floor, Building B5, Xinfu Industrial Zone, Fuyong Chongqing Road,

Baoan District, Shenzhen

Manufacturer: N/A

Model No.: N/A
Trade Name: N/A

Test Methods: IEC 62321-2:2021, IEC 62321-3-1:2013, IEC 62321-4:2013 +A1:2017,

IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015

IEC 62321-7-2:2017, IEC 62321-8:2017

The laboratory tested the product provided by the applicant according to the above test methods. According to the test results, the product conforms to RoHS Directive [(2011/65/EU and Amendment (EU) 2015/863)] issued by the European Commission. It is possible to use CE marking to demonstrate the compliance with RoHS Directive.

The certificate applies to the tested sample above mentioned only and shall not imply an assessment of the whole production. It is only valid in connection with the test report number: UNIB23083106HR-01.

Note: According to the requirements of the applicant for testing, details are shown in the test report.

RoHS

Issue Date

Hoffer Lau

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Shenzhen United Testing Technology

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Certificate of Compliance