

Acknowledgment Letter

SPECIFICATION FOR APPROVAL

Customer Name	Shiyutong				
Customer Project Name	XM	Project Name	XM		
Customer P/N		RF P/N	WF4377B-A150-A(14.8)		
Band	WIFI2. 4G/BT				
Version	A0				
	Designer Info	ormation			
RF Engineer	Fu Xuerong	R&D Diretor	Xia Chenglei		
ME Engineer	Huang Zongbao				

	Appr	ustomer	Approval		
	Prepared By	Checked By	Approval By	Checked By	Approval By
Signature	Huang Zongbao	Fu Xuerong	Xia Chenglei		
Date	2023. 5. 8	2023. 5. 8	2023. 5. 8		

hange Log					
Version	Change Description	Person in Charge	Approval By	Date	

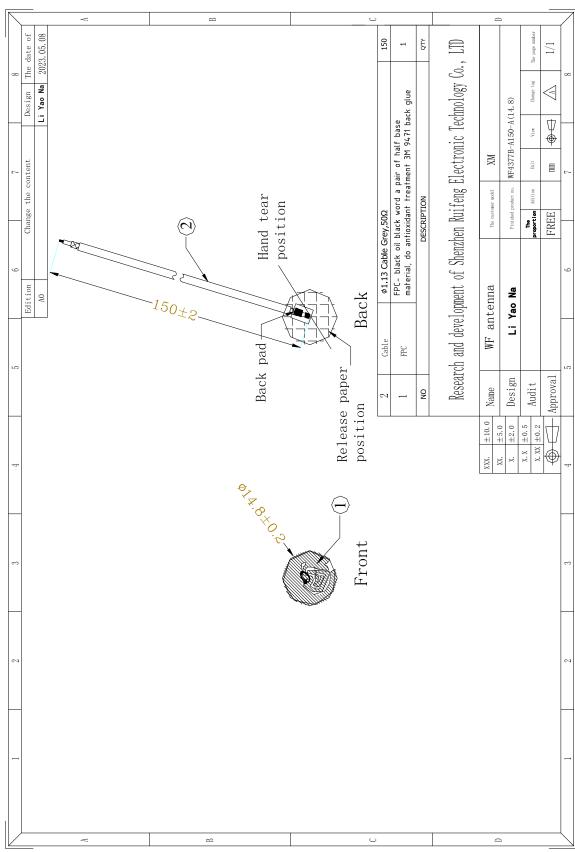


Catalogue

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



Drawing or Product Image



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen TEL:0755-27211658 FAX:0755-29485750



Sample Dimensions Test Report

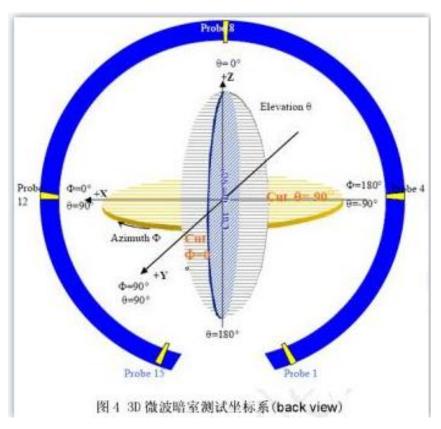
Test Date	e 2023. 5. 8 Sample Qty. 3 Inspector				Xu Yanfang
Dimension No.	Standard	Sample 1	Sample 2	Sample 3	Pass/NG
①diameter	14.8±0.2mm	14. 8	14. 9	14. 8	Pass
2thickness	0.1±0.03mm	0. 1	0. 1	0. 1	Pass
③Line length	150±2mm	150	151	150	Pass
4					
\$					
6					
7					
	Conclusion				
Inspector & Date	Xu Yanfang 20 2	23. 5. 8	Approval &D ate		



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:

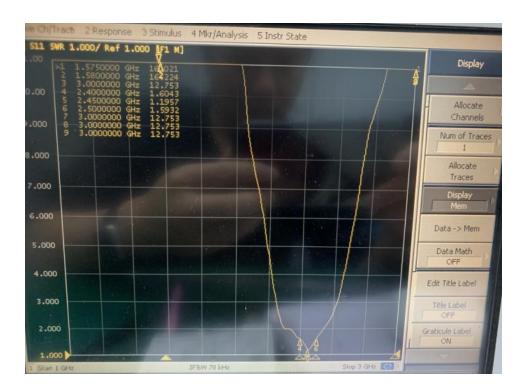


1. S11 Parameter-VSWR

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.

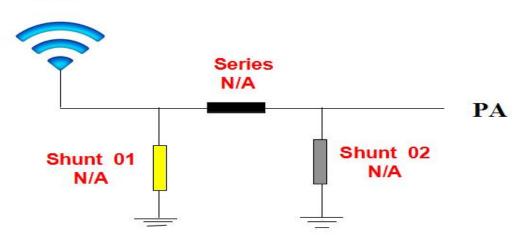
S11 Parameter-VSWR

frequency (MHZ)	2400	2450	2500
standing-wave ratio	1.6	1.19	1.59



2. Antenna Matching Network

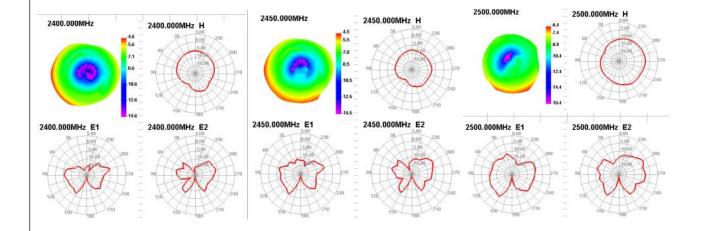
Antenna



Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen TEL:0755-27211658 FAX:0755-29485750

3. Gain & Efficiency

Frequency (MHz)	Efficiency (%)	Peak GAIN (dBi)
2400	8. 28	-4. 59
2450	7. 64	-4. 52
2500	6. 13	-6. 39





Reliability Test Report

Test Date	2023. 5. 8	Sample Qty.	3	Inspector	Xu Yanfang	
Test Item	Requirement	testing equipment	Sample 1	Sample 2	Sample 3	PASS/NG
high temperature storage	Expose to+85 °C for 24 hours, recover for 2 hours, and conduct testing	Constant temperature and humidity box	ОК	ОК	ОК	Pass
low temperature storage	Expose to -40 ° C for 24 hours, recover for 2 hours, and perform testing	Constant temperature and humidity box	ОК	ОК	ОК	Pass
High temperature operation	Powered on for 24 hours at+60 °C	Constant temperature and humidity box	ОК	ОК	ОК	Pass
Low temperature operation	Powered on for 24 hours at -20 °C	Constant temperature and humidity box	ок	ок	ок	Pass
Salt spray test	(5 ± 0. 5)%sodium chloride, pHValue is6.5~7.2, Temperature of experimental chamber (35±2)°C □24H ☑48H	Salt spray testing machine	ОК	ОК	ОК	Pass
Connector riveting and pulling force	1.13Wire diameter≥ 10N 0.81Wire diameter≥ 8N RG174 ≥60N RG178 ≥50N	Push-pull force gauge	≥10N	≥10N	≥10N	Pass
		Conclus	ion			Pass
Inspector &	Xu Yanfang 2023.5	. 8	Approval &D ate			I

Company Address: 4th Floor, Building B5, Xinfu Industrial Park, Chongqing Road, Fuyong Town, Bao'an District, Shenzhen TEL:0755-27211658 FAX:0755-29485750



Product ROHS Composition Declaration Form

produc	Unifo rm	Harm	ıful subst	ance cont	ent(PPM)		Date of HS test
t name		Pb	Cd	Hg	Cr	Br	HS test report number	report
		ND	ND	ND	ND	ND		
	wire	ND	ND	ND	ND	ND	UNIB21042707HR-01	2023. 5. 8
		ND	ND	ND	ND	ND		
WIFI&		ND	ND	ND	ND	ND		
BT		ND	ND	ND	ND	ND		
		ND	ND	ND	ND	ND		
anten		ND	ND	ND	ND	ND		
na	rod	ND	ND	ND	ND	ND		
	termin	ND	ND	ND	ND	ND		

Install Wizard or Other

setup script:

Take 1 PCS of product, tear off the release paper on the back of the FPC by hand, and then align the FPC positioning hole position with the shell positioning hole position (positioning rib position or positioning line), and attach it flat to the shell, as shown in the following figure:

	Installation process precautions:
	☐ Ensure that the FPC is fully attached to the housing after pasting the antenna;
	□Align the positioning hole with the position of the casing positioning column;
	□Align FPC edge with shell edge;
	\square When attaching the terminal to the PCBA end of the motherboard, please first align
the	terminals and then snap them vertically;
	When disassembling antenna terminals, it is necessary to use a tool (such as a special
	pry bar) to vertically lift the terminals and not directly pull
	the wires for disassembly



