



SPECIFICATIONS FOR APPROVAL
official version

The specification data is the sample antenna data. Due to factors such as the product not being glued to the shell, there may be differences between the trial production machine and the specification data. However, after correction with the trial production machine, the data can remain consistent with the specification data

Customer Name:	JXX
Product Name:	WIFI 2.4G+5G_ANT
Product Model:	MH5
Part Number:	LJF02-230726002-R0A
Write By :	Pengsiheng
Issued Date:	2023/7/26

CUSTOMER				
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY	DATE	Edition/Part number
LEJIN				
R&D DEPT	ENGINEER R&D DEPT	APPROVAL	DATE	Edition/Part number

ECN/ECR			



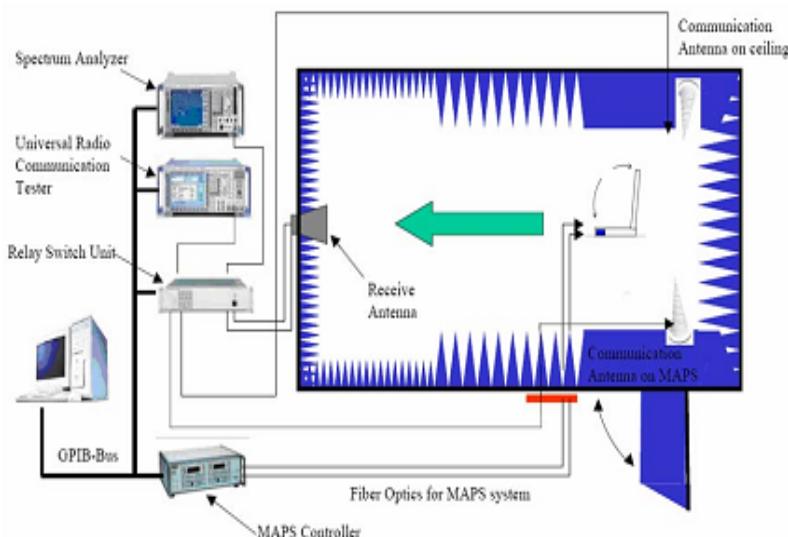
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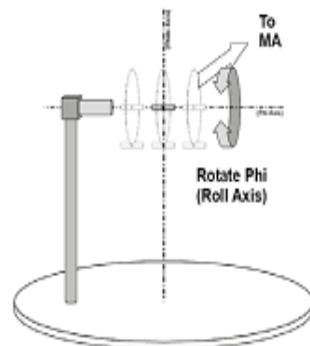
Electrical Characteristics					
Frequency	VSWR	Efficiency	Impedance	Polarization	Gain
2400 MHz ~2500 MHz	<1.8	>30%	50 Ohm	Linear	≥2DB
5100MHz--5900 MHz	<2.5	>40%	50 Ohm	Linear	≥3DB
Material & Mechanical Characteristics				Environmental	
Material of Radiator	Cable Type	Connector Type	Dimension	Operation Temperature	Storage Temperature
BLACK	1.13	IPX1		- 20 °C ~ + 50 °C	- 30 °C ~ + 80 °C

4, Test Equipment & Conditions

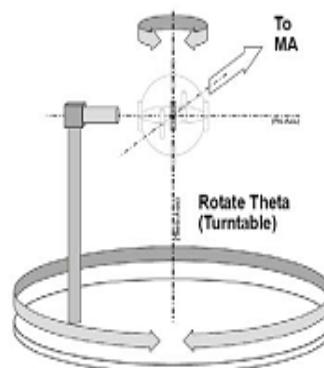
1. Network Analyzers :Agilent 8753SE 5071C
2. Communications Test Set:Agilent E5515C/CMW500
3. 3D Chamber Test System(ETS743)



(Testing by 3D anechoic chamber)

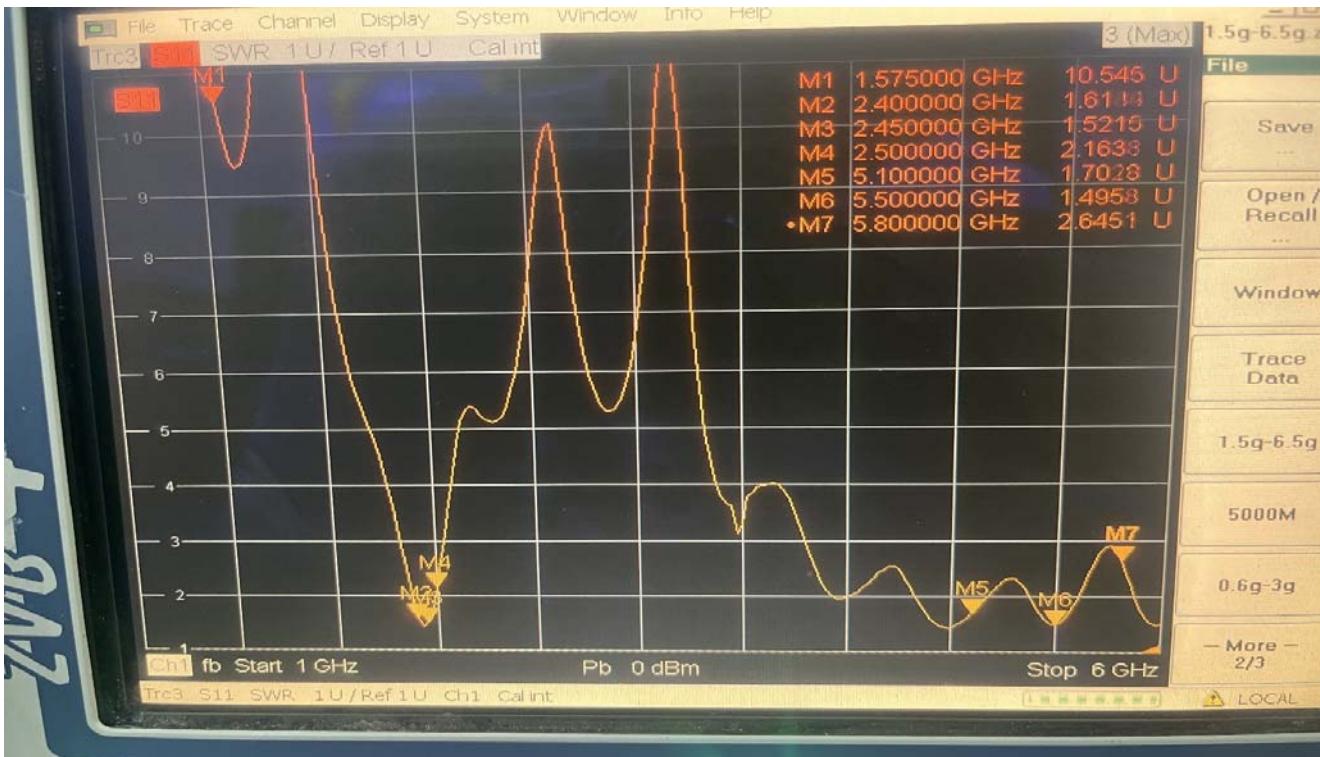


Phi axis test



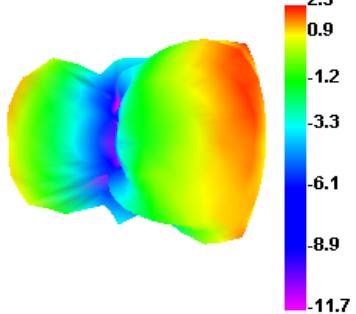
Theta axis test

5,Test Report : WIFI ANT M:

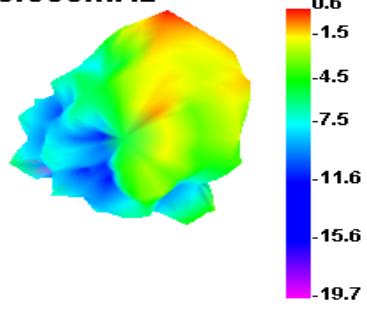


2.4G (WIFI/BT)	Freq (MHz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2500	
	Effi (%)	30.2	32.4	32.8	34.2	33.7	34.4	34.1	34.5	33.9	34.8	
	Gain (dBi)	1.6	2.2	2.1	1.99	2.2	1.2	1.7	1.9	2.8	2.7	
5G WIFI	Freq (MHz)	5150	5250	5350	5450	5550	5650	5750	5850	5950	6000	
	Effi (%)	41.2	40.2	42	43.5	42.5	44.1	44.6	42.2	41.6		
	Gain (dBi)	2.05	2.89	2.22	1.78	2.4	1.5	2.1	1.22	2.1		

2450.000MHz



5150.000MHz



OTD_DATA: (The following OTD_DATA was tested by assembling the antenna according to the requirements of this specification. If the antenna is replaced or the installation method of the antenna is changed, the following OTD_DATA will become invalid. During the test, the BT needs to be turned off and the system should set the module to a non sleep state.)

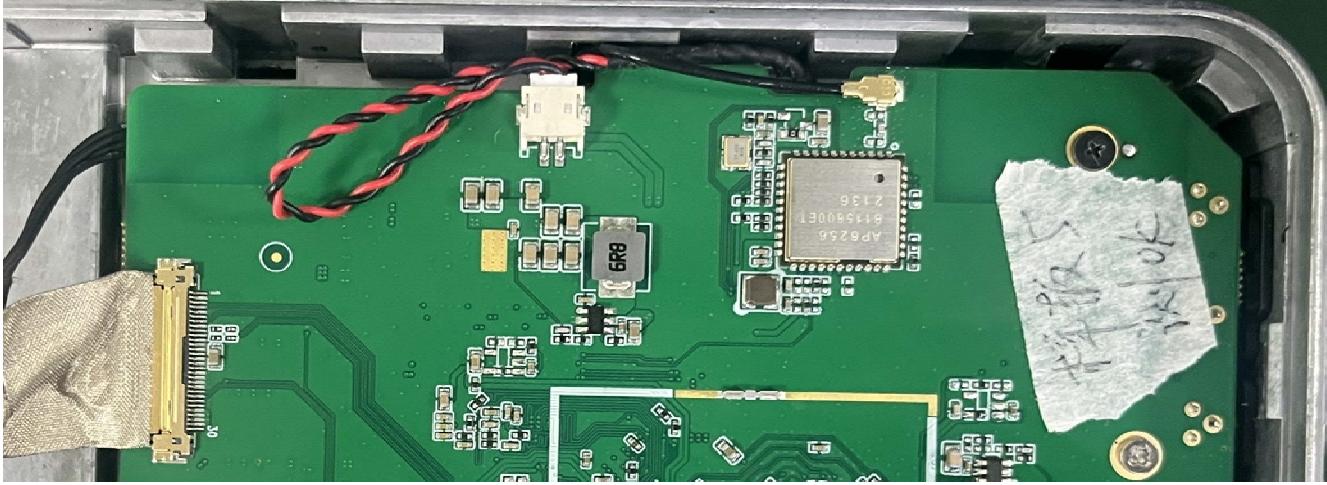
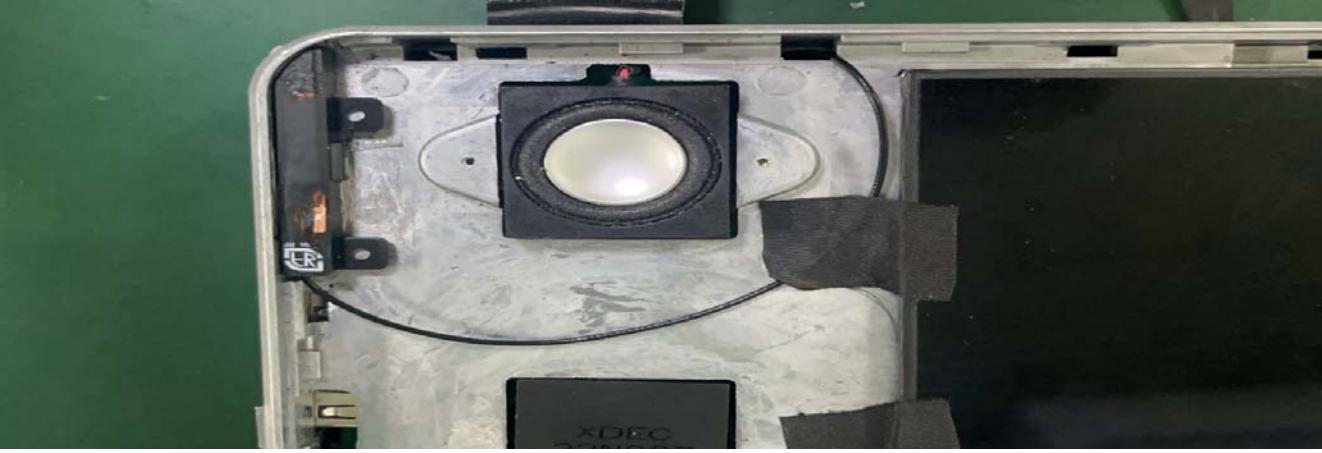
WIFI 2G	802.11B 11MB	
	TRP(dB m)	TIS(dB m)
CH1	9.5	-80.6
CH6	10.24	-81.9
CH11	10.82	-81.3

WIFI 5G	802.11A 54MB	
	TRP(dB m)	TIS(dB m)
CH36	13.22	-70.6
CH149	12.67	-67.5
CH161	13.32	-69

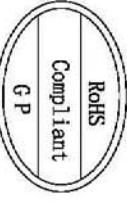
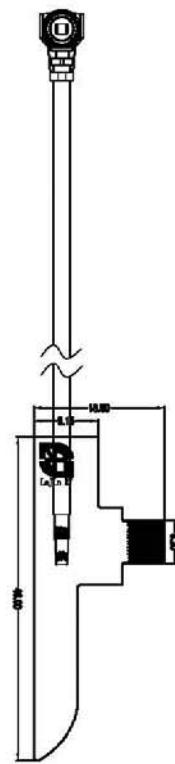
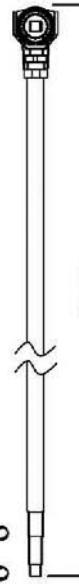


Shenzhen Lejin radio frequency technology Co., LTD

6,Antenna Picture



7&8,Transmission line Specification & Product Drawing

				1	2	3			
							6		
							7		
							8		
A					A				
D					D				
A					A				
Rev	Description		Date	Remark		Location	6	7	8
1	2	3							

 **SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD**

	Third Angle	Project	JXX M5	Date	2023-07-26					
	Part Name	WIFI_ANT	Designed by							
	Part No.		Material		Approved by					
	Description	Date	Remark	Location	Unit	mm	Scale	FT	Rev	A
	0~10	±0.05		0.02		0.03		0.02		0.04
	10~18	±0.10		0.03		0.02		30~40	±0.15	
	40~	±0.20		Angle	±0.5°		IJF02-230726002-ROA			