

Antenna SPEC

Supplier Name	;	Sunnyway Technology(China).Co.Ltd					
Material Name	;	WIFI/BT Antenna					
Specification	S	33.4*12.6 Black FPC(L343/Sunnyway)					
Project Model	L3	43-WiFi Ant	igment	Black			
Material code/material number		KR3317L34390100					
Environmental requirements	■RoHS o	■RoHS compliant □no-RoHS □Confirmed to REACH □no-REACH					
Туре		□New product recognition□Material change will be admitted□Specification changes will be admitted					
State	□Structure	□Structure sample qualified □Appearance sample qualified □Color samples qualified					
	Des	cription of rep	olacement mater	rial			
Date		Change description Signature				gnature	
Fill in by supplier							
Producer/Dat		Reviewer/Dat		Approver/Date			
Fill in by the company							
Structural recognition	Project recognition	Procurement recognition	Quality recognition		Hardware recognition		



尚远科技(中国)有限公司

Sunnyway Technology (China) Co. Ltd.

Antenna SPEC

Customer name: JimiloT	Entry name:	L343			
Working frequency band: 2.4G WIFI					
Motherboard version:					
Sunnyway Material specification					
Specification type	Sunnyway number	Customer number			
WIFI/BT Antenna	SZ21517IB77				

Revision history					
Date of	Change content	Altered	Edition		
preparation/change		person			
2022.03.02	New issue	Yang XIN	Α		

Sunnyway Countersign column							
RD	ME:		To examine:		QE:		Approval:
	RF:		To exa	To examine:			
Customer will sign the column							
Electronic Engineer Project m		anager	Structural Engineer		Qua	Quality Engineer	

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ITEM

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1. PROJECT PICTURES

project pictures shown below:



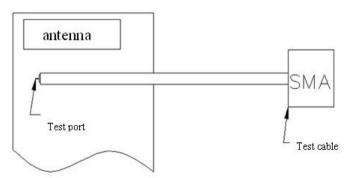
PS:

To ensure that the antenna shipment quality, the final prototype Clients validated the antenna's performance, should be kept in our company for at least a year time, facilitate solving antenna amount during abnormal situation,

2. TEST FIXTURE

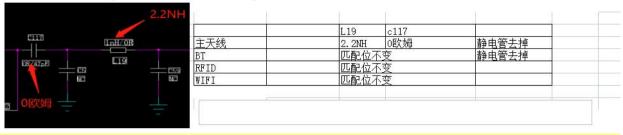
Purpose: To test antenna passive parameters as accurately as possible.

methods: the fixture is to use a 50 ohm coaxial cable, one end is connected to the pad after the antenna 's matching circuit (the front of the antenna switch) , and the other end is connected to the SMA connector.



3. MATCHING CIRCUIT

The matching circuit has been changed as follows:



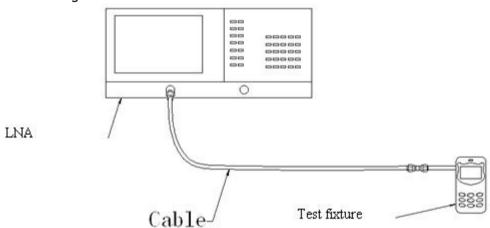
4. S11 test

4.0 S11 test method instructions

Test equipment: LNA (Agilent E5071B)

Test method: With a 50 ohm CABLE ,CABLE export from instrument testing port , After the calibration with calibration Key, connected to the SMA connector, Records the return loss and VSWR of the related frequency points.

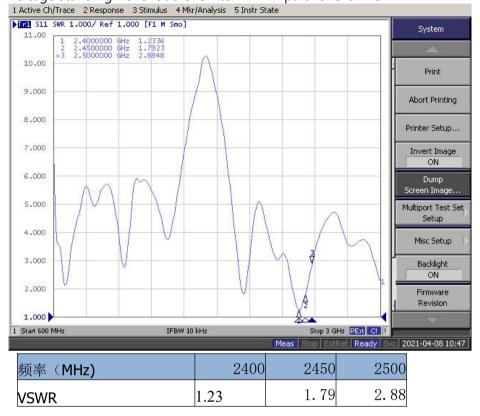
Test schematic diagram is as follows:



Test schematic diagram

4.1 S11 parameter

Picture of voltage standing wave ratio of switch RF1 in parallel O ohms



5. CHAMBER TEST DATA

Test equipment

Test system: chamber

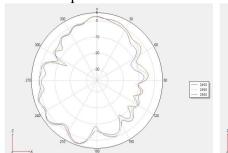
Test environment: the temperature of 22 $^{\circ}$ C + 3 $^{\circ}$ C, humidity of 50% plus or minus 15%

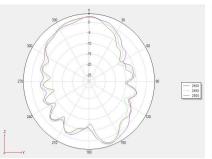
Test equipment: to test passive status, use Agilent 5071C to test active status, use CMW500.

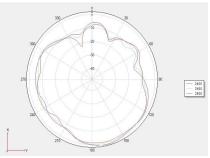
Efficiency and gain

Elliotolic) ullu gu		
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	56.1	4.42
2410	53.33	4.27
2420	54.45	4.24
2430	53.46	4.44
2440	53.95	4.23
2450	53.58	4.48
2460	51.17	3.97
2470	54.95	4.58
2480	54.83	4.27
2490	54.58	4.73
2500	52.6	4.37

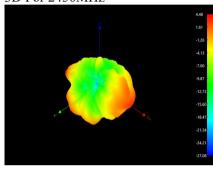
Radiation pattern

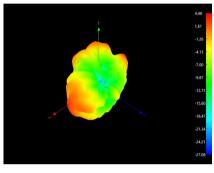


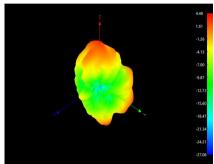




3D For 2450MHz







6. Antenna environment processing and mounting position

Environmental treatment is not added, according to the customer's original environmental treatment.

7. Mass production antenna Spec

During Mass production, to test VSWR as production test standard

According to the difference of the project itself, the following specification:

recording to the difference of the project teen, the following specification					
Frequency	SPEC, Mass Production				
2400-2500MHz	VSWR (MP performance) <vswr(verify performance)+0.5<="" td=""></vswr(verify>				

8.Structural drawings

