



Shenzhen DEWEIMA Communication Equipment Co.Ltd

# SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Siweipu
CUSTOMER P/N	A-RID Independent beacon
PART NAME	2.4GWIFI antenna
Material code	
APPROVAL REV.	DWM-V1.0

<b>CONTRACTOR</b>			<b>DATE:</b> 2024-01-16
<b>QA CHECKED</b>	<b>MR CHECKED</b>	<b>RF CHECKED</b>	<b>MANAGER CHECKED</b>
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<b>CUSTOMER</b>		<b>DATE:</b>
<b>Approved By</b>	<b>Checked By</b>	<b>Prepared By</b>

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## 1. Product Application

Terminal of the antenna products can only be used for 2.4G WIFI antenna.

## 2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices.	VSWR: <b>2400MHz-2500MHz &lt; 2.0</b>
		Test equipment	
			
Item	Description	Test Condition	Requirement

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2.2

Active test

Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.

Antenna gain:

**2400MHz-2500MHz:**  $2 \pm 1\text{dBi}$

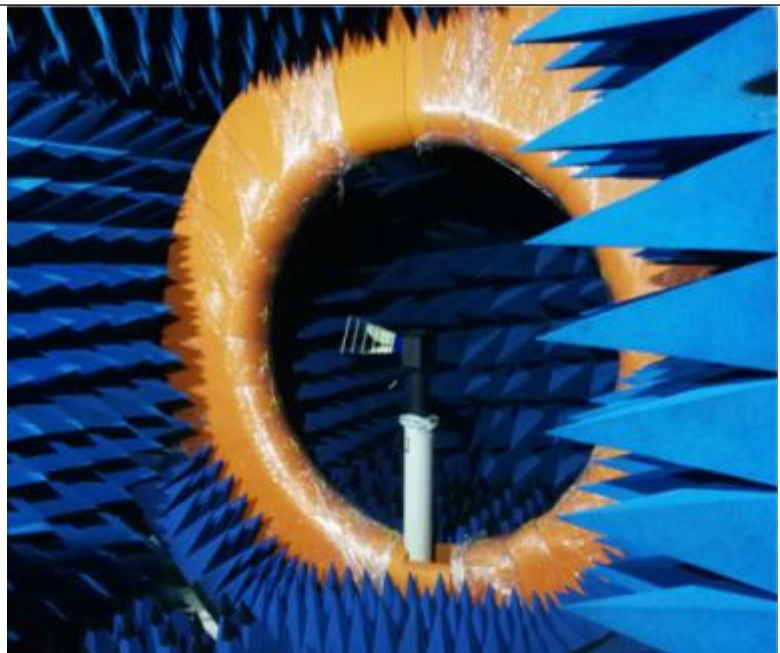
Antenna efficiency:

**2400MHz-2500MHz:**  $>40\%$

Test equipment/测试设备

2.3

Microwave  
Anechoic  
(Satimo&ETS)

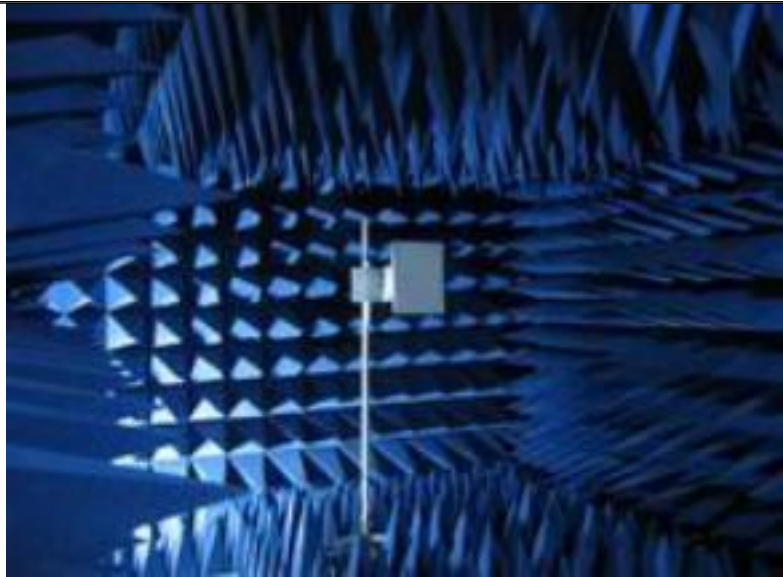


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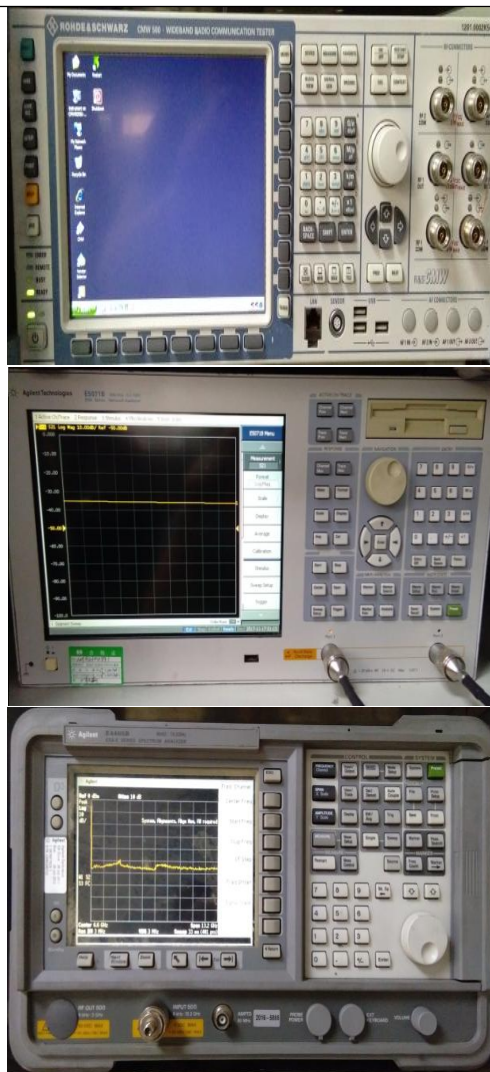
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2.4

CMW500  
Agilent5071B  
AgilentE4405B  
Agilent8960

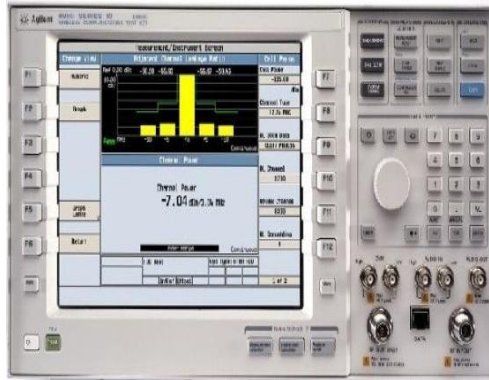


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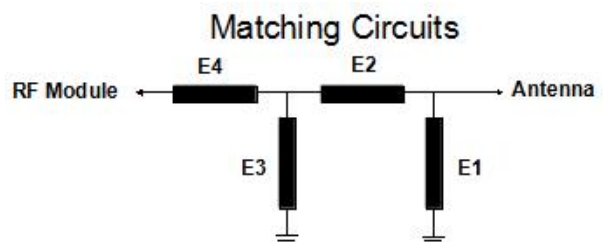
### 3. Technology Parameters

Frequency Range  
Operating Humidity  
Temperature Rating

**2400MHz-2500MHz**  
85% R.H.MAX  
-40°C ~ +85°C

#### 3.1 The matching test value

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	



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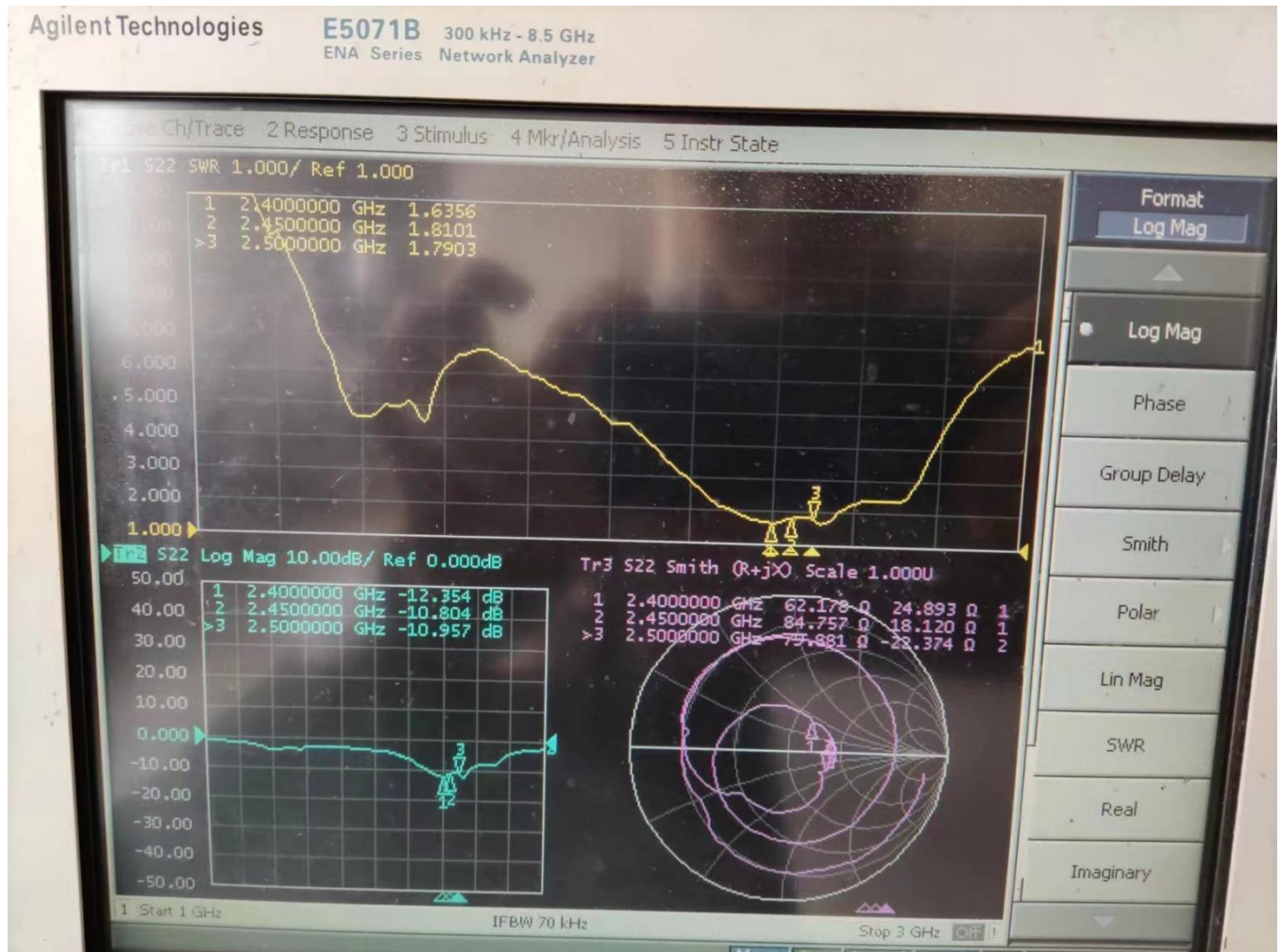
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## 3.2 VSWR



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## 3.3. Efficiency And Gain

Frequency/MHz	Efficiency / %	MaxGain/dBi
2400	52.95	2.55
2410	51.29	2.71
2420	53.79	2.98
2430	53.45	2.61
2440	51.94	2.43
2450	54.62	2.66
2460	52.95	2.72
2470	51.29	2.37
2480	53.62	2.71
2490	55.51	2.59
2500	53.45	2.42



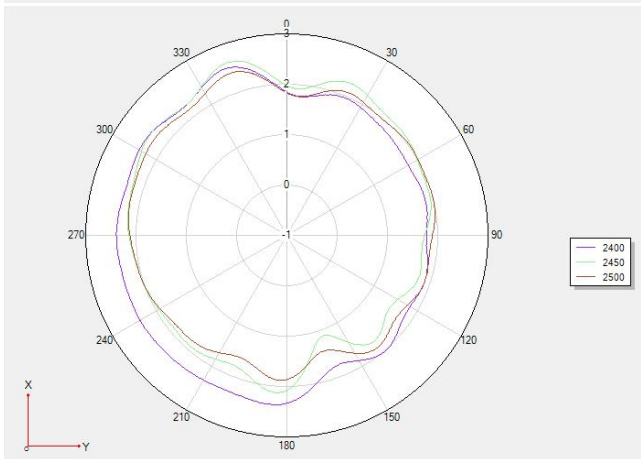
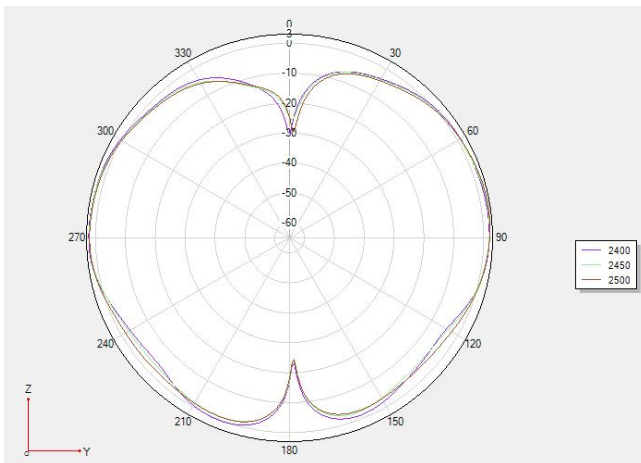
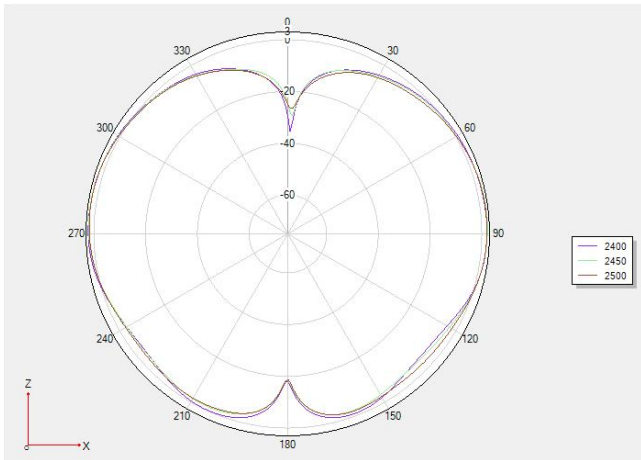
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## 3.4 2D & 3D PHOTO

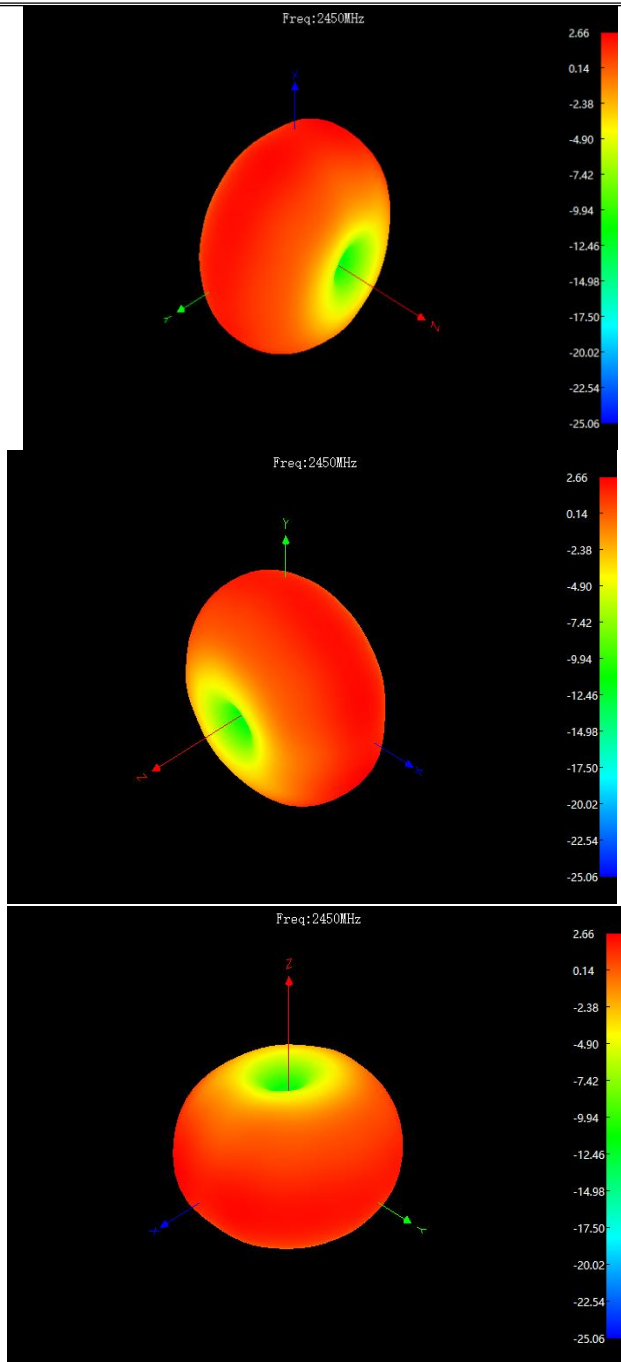


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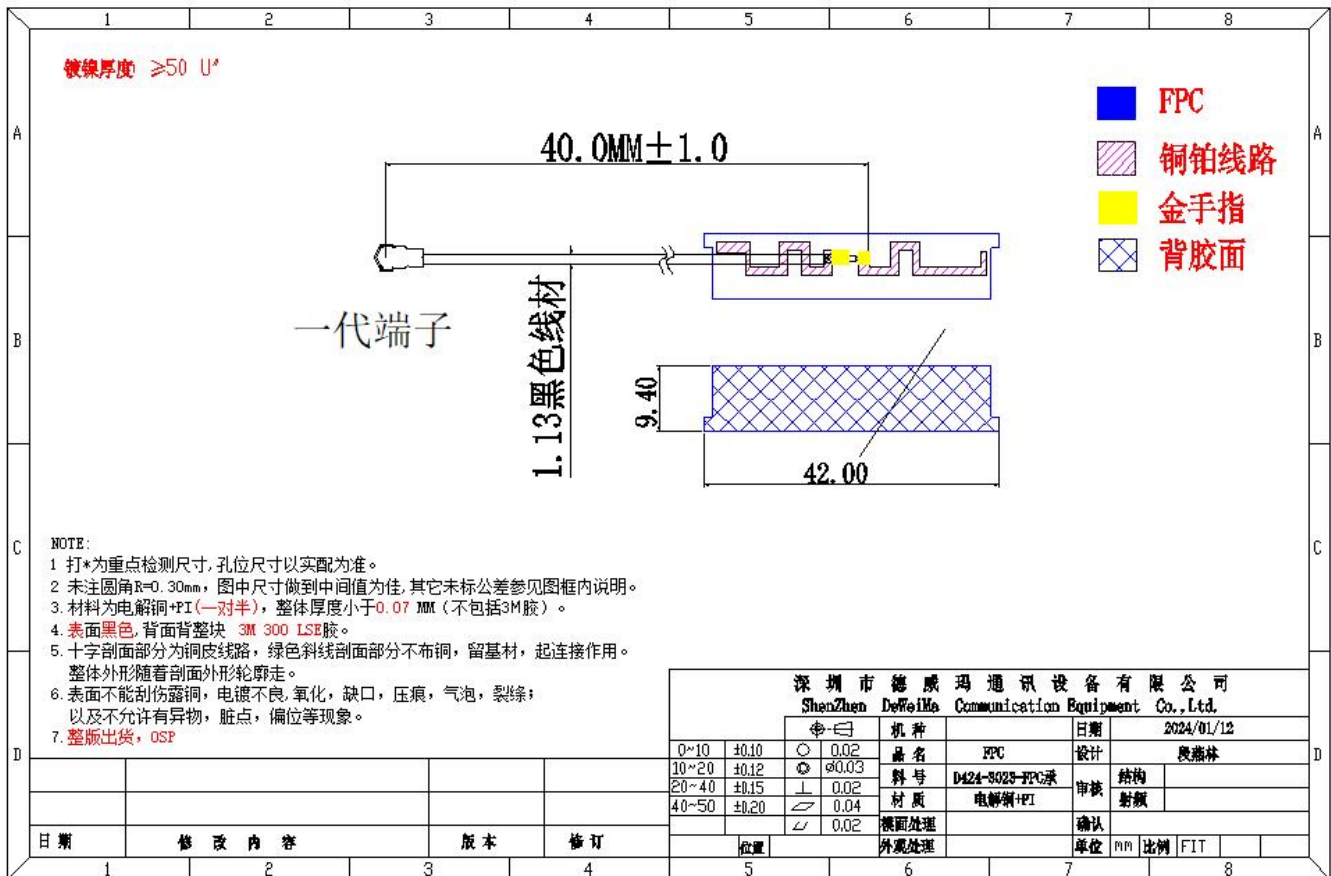
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## 4. Product photo



## 5.Environmental Performance

Item	Description	Test Condition	Requirement
5.1	High and low temperature test	Temp.: $-40 \text{ }^{\circ}\text{C}$ Time: 48 hours  Temp.: $85 \text{ }^{\circ}\text{C}$ Time: 48 hours	1. No visible damage. 2. The electric performances reach the standard.
Item	Description	Test Condition	Requirement
5.2	Salt Spray	$5 \pm 0.1\%$ Nad salt fog PH Value: 6.5-7.2 Temp: $35 \pm 1 \text{ }^{\circ}\text{C}$ Time: 24 hours	1. No color change. 2. the appearance of the antenna does not flake off.

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## 6. Usage Precaution

No	Items	Matter
6.1	Precautions	a)Please avoid the cleaning of this producta)
No	Items	Matter
6.2	Stockpile condition	Use this product within 6 months after receipt Condition : Temp: 5~30℃ Humidity: ≤70%

## 7. Packing metho

**Bag shipment, 100pcs.**