



Shenzhen DEWEIMA Communication Equipment Co.,Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Redford
CUSTOMER P/N	RD11SWF
PART NAME	WIFI Antenna
Material code	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE: 2023-07-25
QA CHECKED	MR CHECKED	RF CHECKED	MANAGER CHECKED
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CUSTOMER		DATE:
Approved By	Checked By	Prepared By

TEL: 13603094246

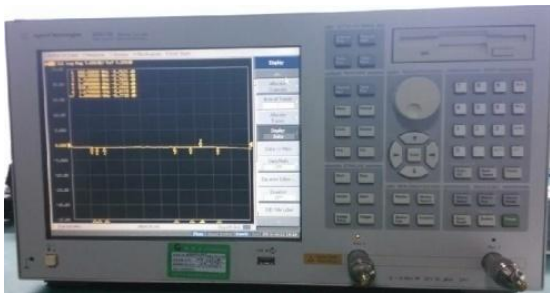
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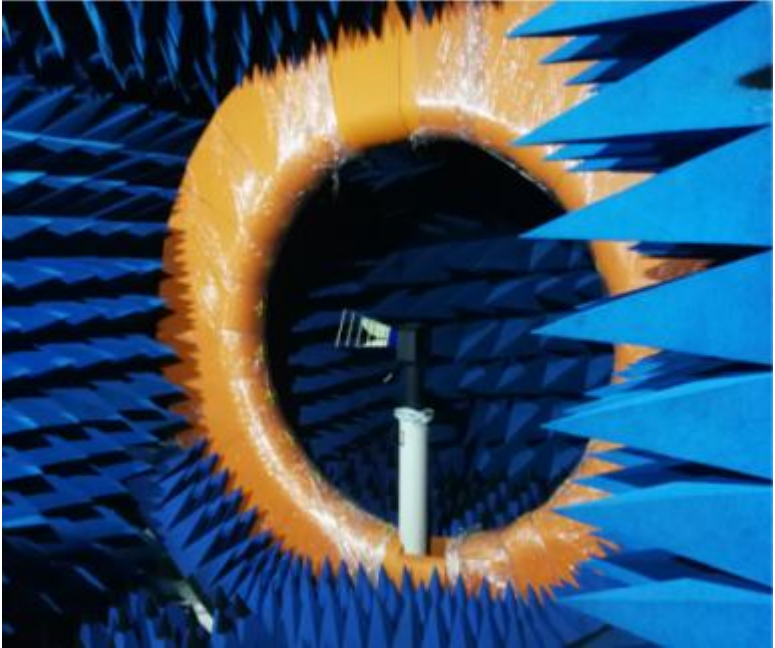
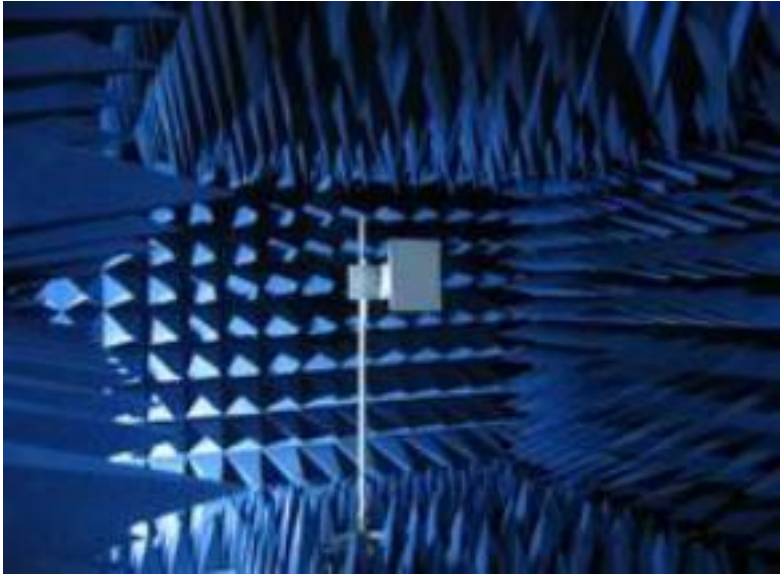
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1. Product Application

Terminal of the antenna products can only be used for 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: 2400-2500MHz $\leq$ 2
		Test equipment	
			
Item	Description	Test Condition	Requirement
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: 2400~2500MHz: 2 ± 1 dB Antenna efficiency: 2400~2500MHz $>35\%$

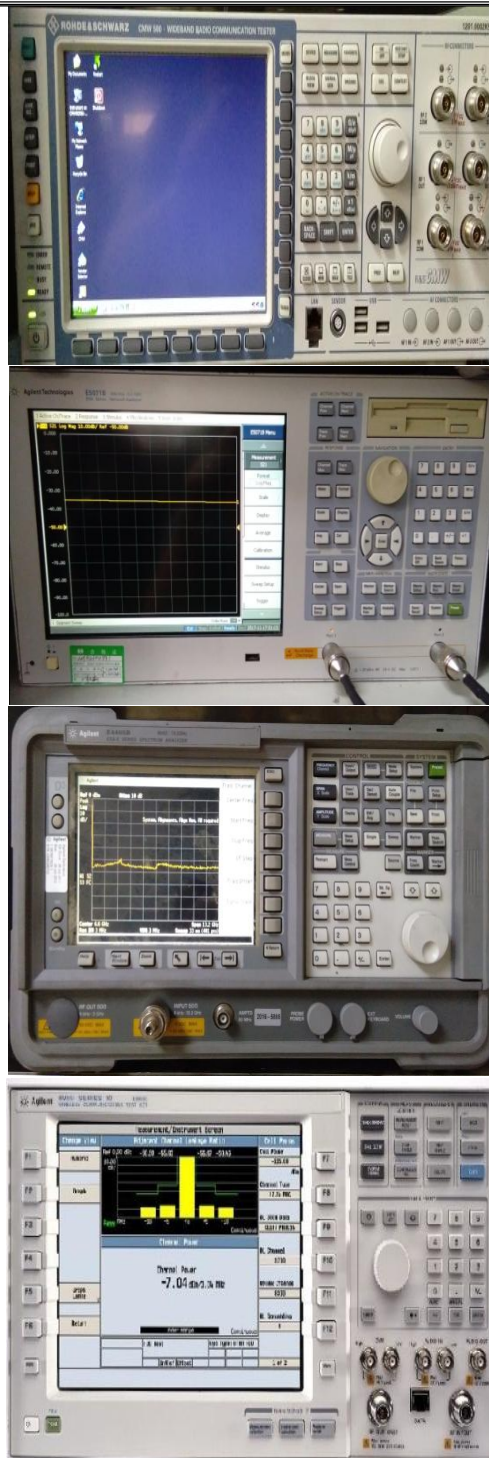
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment
		 

CMW500

Agilent5071B

2.4 AgilentE4405B

Agilent8960



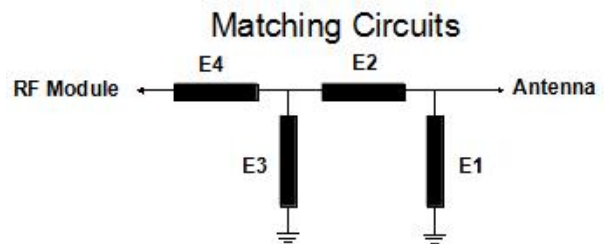
3. Technology Parameters

Frequency Range
Operating Humidity
Temperature Rating

2400~2500MHz
85% R.H.MAX
-40℃~+85℃

3.1 The matching test value

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



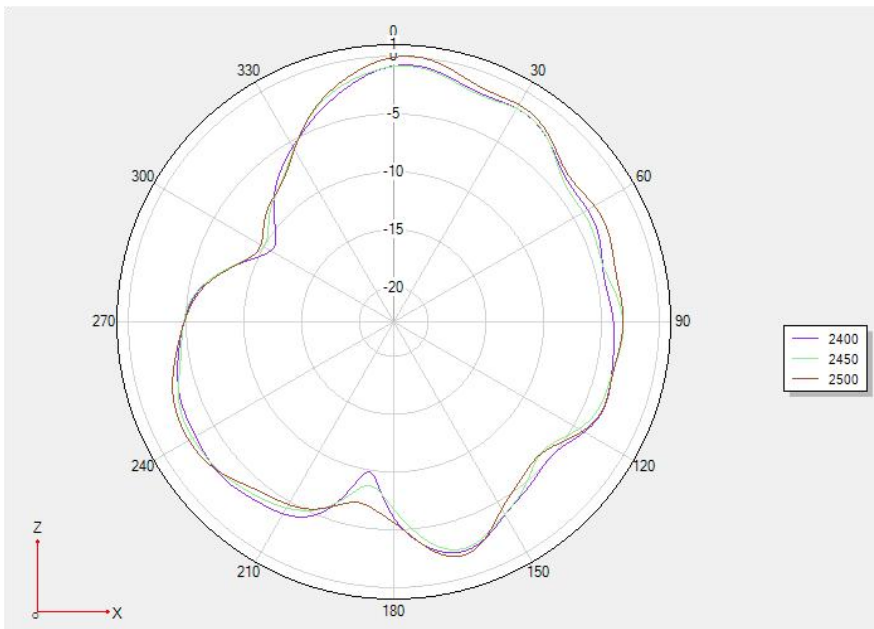
3.2 VSWR&Return Loss&Smith

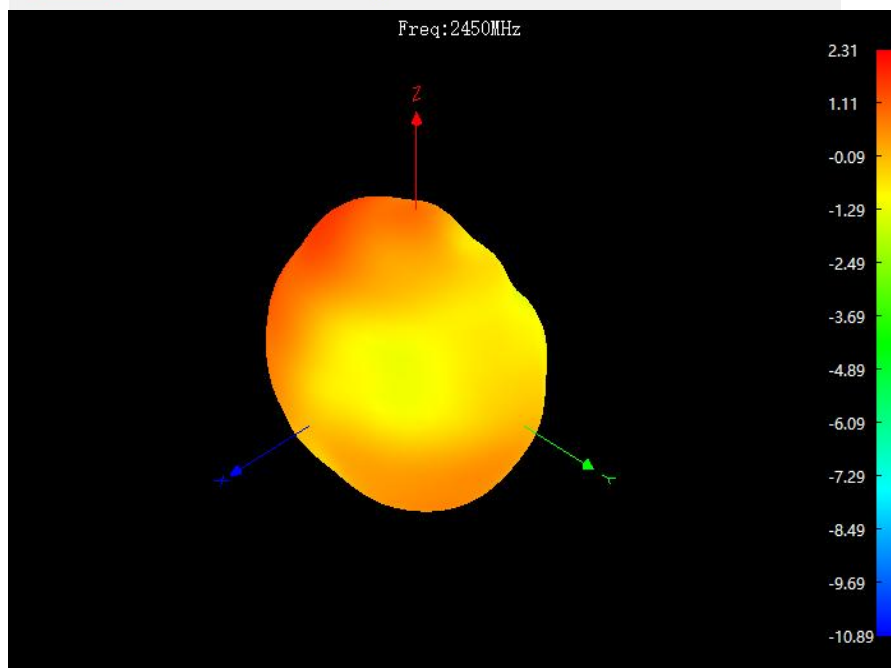
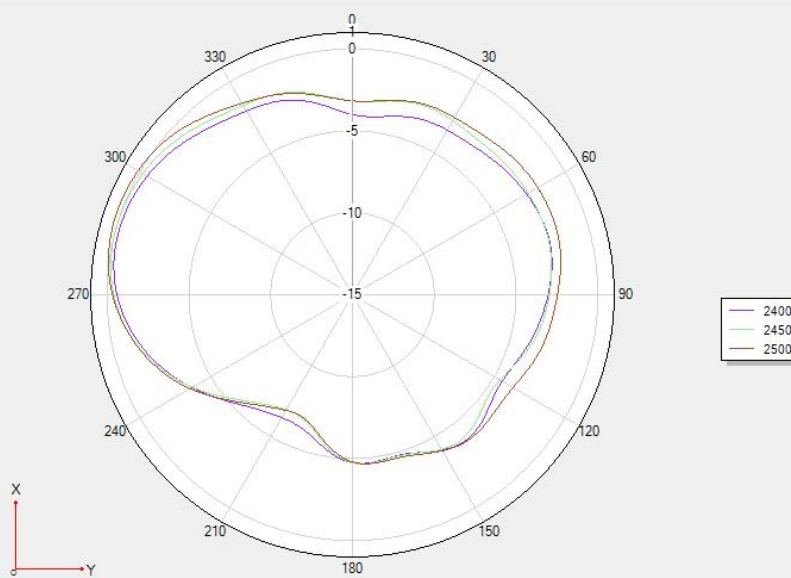
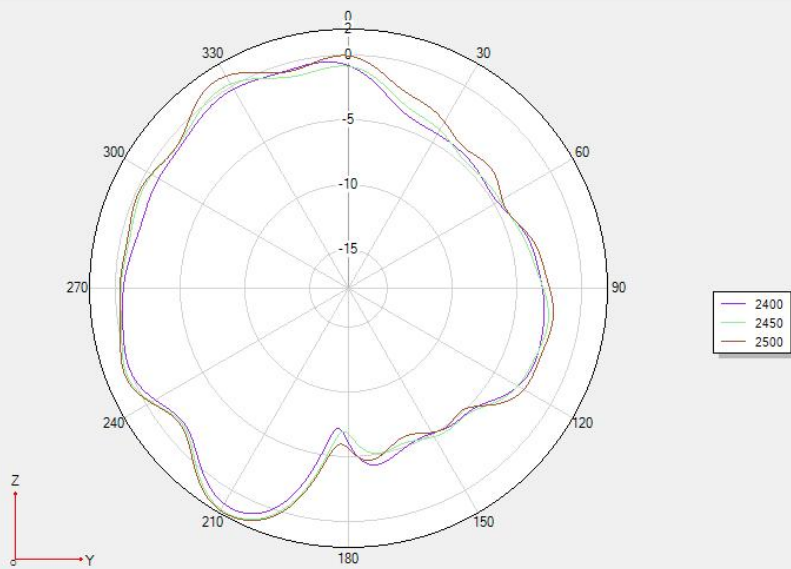


3.3. Efficiency And Gain

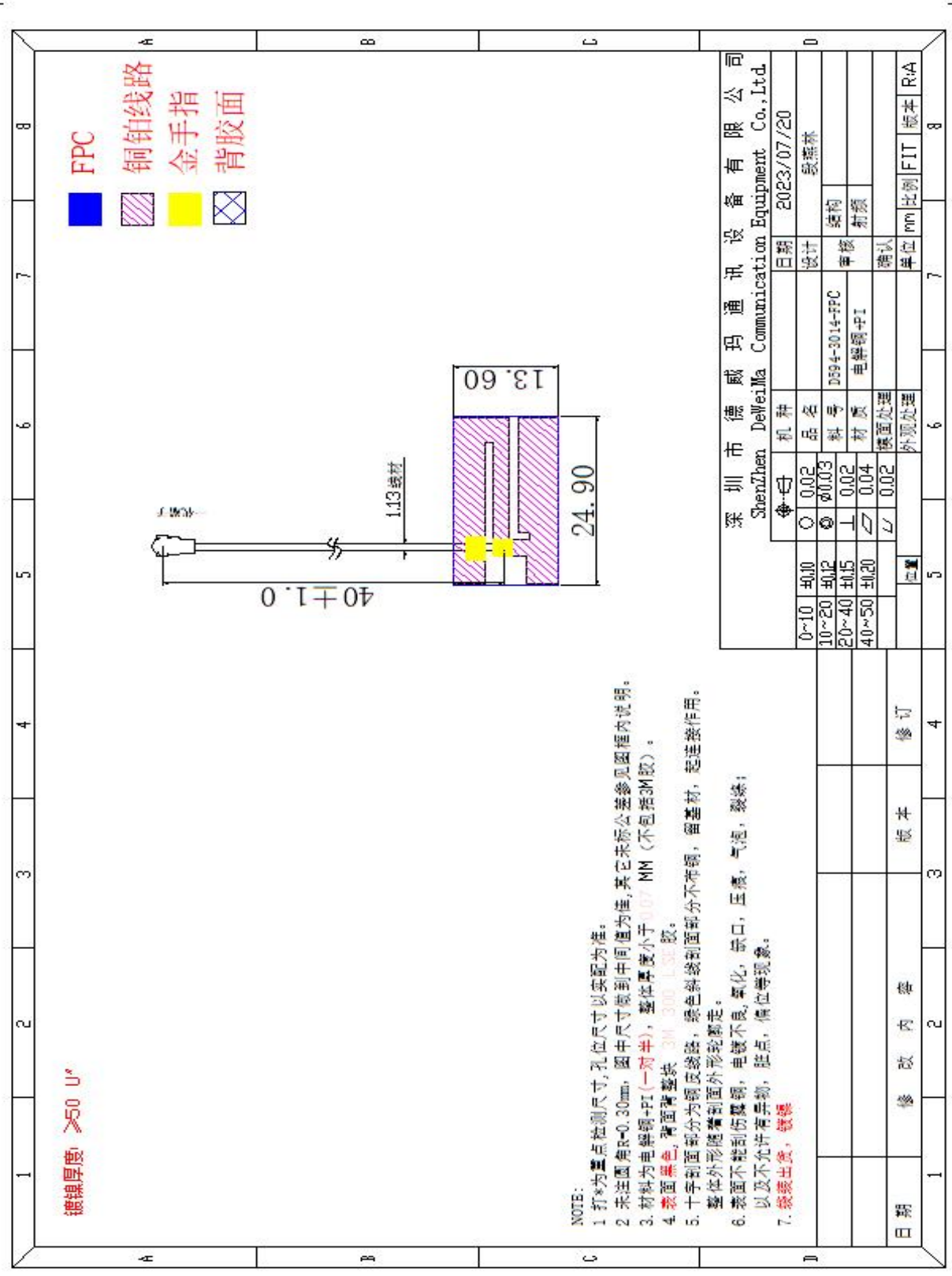
Frequency/ Mhz	Efficiency / dB	Efficiency / %	MaxGain/d Bi
2400	-4.12	38.73	1.72
2410	-4.17	38.28	1.62
2420	-3.93	40.46	2.26
2430	-3.84	41.3	2.41
2440	-3.94	40.36	1.88
2450	-3.75	42.17	2.31
2460	-3.66	43.05	2.72
2470	-3.72	42.46	2.63
2480	-3.58	43.85	2.36
2490	-3.42	45.5	2.12
2500	-3.57	43.95	2.43

3.4 2D & 3D Pattern





4. Product photo



5.Environment Performance

Item	Description	Test Condition	Requirement
5.1	High and low temperature test	Temp.: -40 °C Time: 48 hours Temp.: 85°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±0.1% Nad salt fog PH Value: 6.5-7.2 Temp: 35±1 °C Time:24 hours	1. No color change. 2. the appearance of the antenna does not flake off.

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.