

规格承认书

Specification for Approval

客户名称: WoMaster
Customer:
规格描述: 2.4/5.8G WiFi Blade Antenna with RP-SMA Male,L=200mm
Part name
飞宇信料号: 3.08.1003001000
FYX Part No.
客户料号: SMA-3442-3081003-00
Customer Part No.

CUSTOMER APPROVED BY		
APPROVE	CHIEF	SUPERVISOR

MANUFACTURER RECOGNITION			
SALES	APPROVE	CHECK	DESIGN
Effy Zhong	Mr. Li	Mr. Zhou	Ms. Zheng
Date:2025.09.11		Date:2025.09.11	
THANKS FOR OFFERING US THE OPPORTUNITY TO SEND SAMPLES FOR APPROVEMENT. PLS KINDLY SIGN BACK THIS DOCUMENT TO US WHEN SAMPLES ARE APPROVED.			

FEIYUXIN HEADQUARTER

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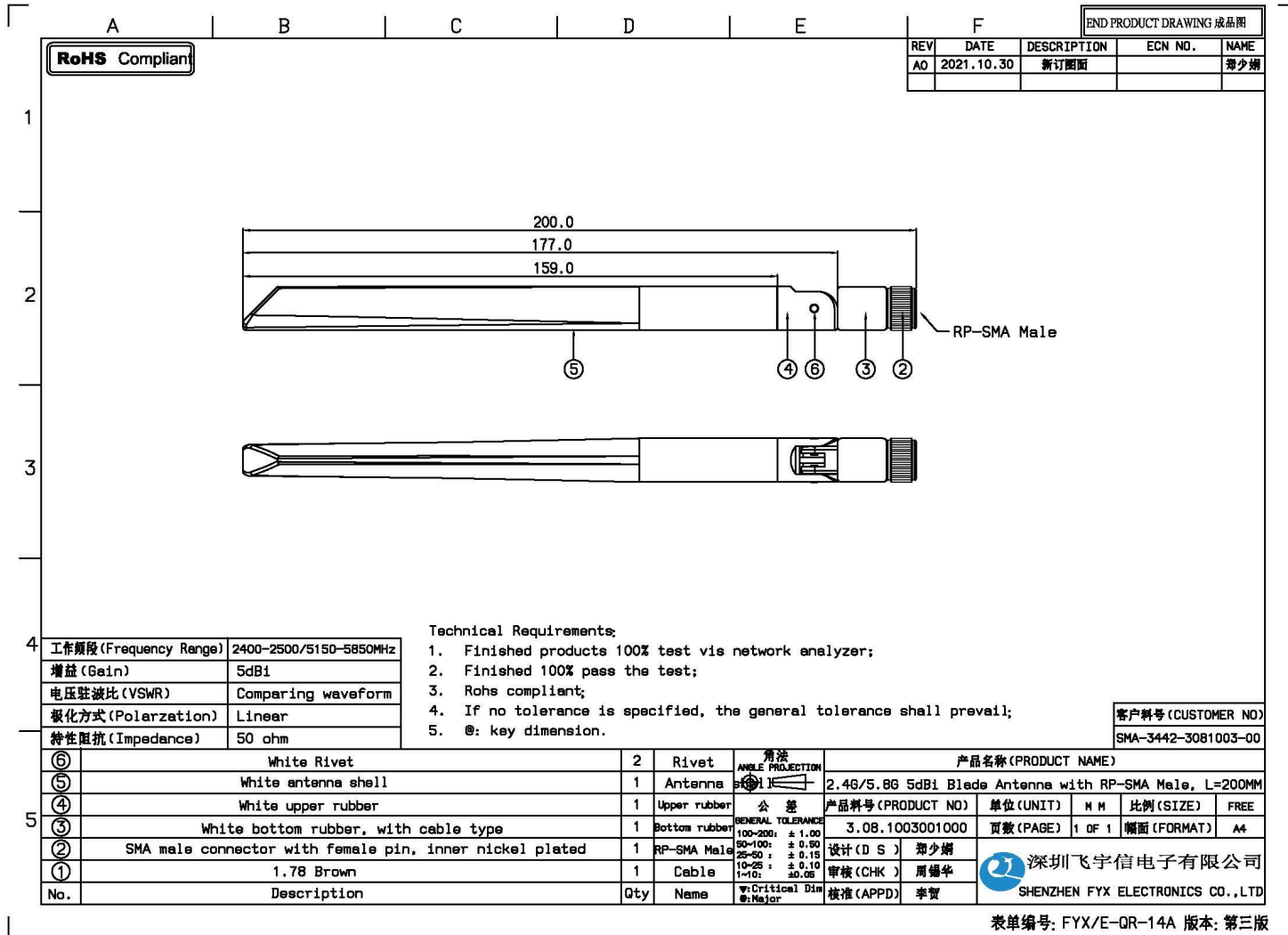
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Amendment Record

Version	Date	Engineer	Revised details
01	2025.09.11	Ms. Zheng	NEW

1. Antenna Drawing



2.Product Appearance

Dimension	Φ13.0*L200MM	Fixing Way	Screw mount
Shell Color	White color	Connector Type	RP-SMA Male, swivel type

3.Antenna Performance Parameters

Item	Characteristic	Unit
Frequency Range	2400~2500/5150~5850	MHz
Impedance	50	Ω
VSWR	Comparing waveform	——
Gain	5	dBi
Polarization	Vertical	
Radiation	Omni-directional	
Max. Input Power	5	W
Working Temp.	-40~+70	°C
Storage Temp.	-45~+75	°C

4.Connector Specification

Material and Coating

No	Part Name	Material	Coating	Remarks
1	Inner Conductor	Brass	Gold plated	
2	Insulator	Teflon	/	
3	Inner Shell	Brass	Nickel plated	
4	Outer Shell	Plastic steel	/	

S11 Testing Report

1. Summary

This report states the measurement and result of the antenna. The measurement includes VSWR and reflection coefficient of s-parameter.

2. S-Parameter Measurement

A. Reflection coefficient:

a. Instrument: Network Analyzer.

b. Setup:

(1) Calibrate the Network Analyzer by one port calibration using O.S.L. calibration kits.

(2) Connect the antenna under test to the Network Analyzer.

(3) Measure the S11(reflection coefficient) shown in Fig. 1.

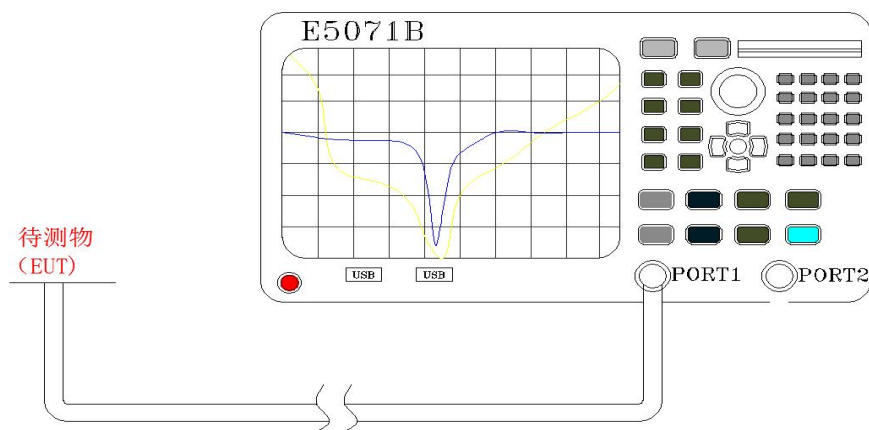


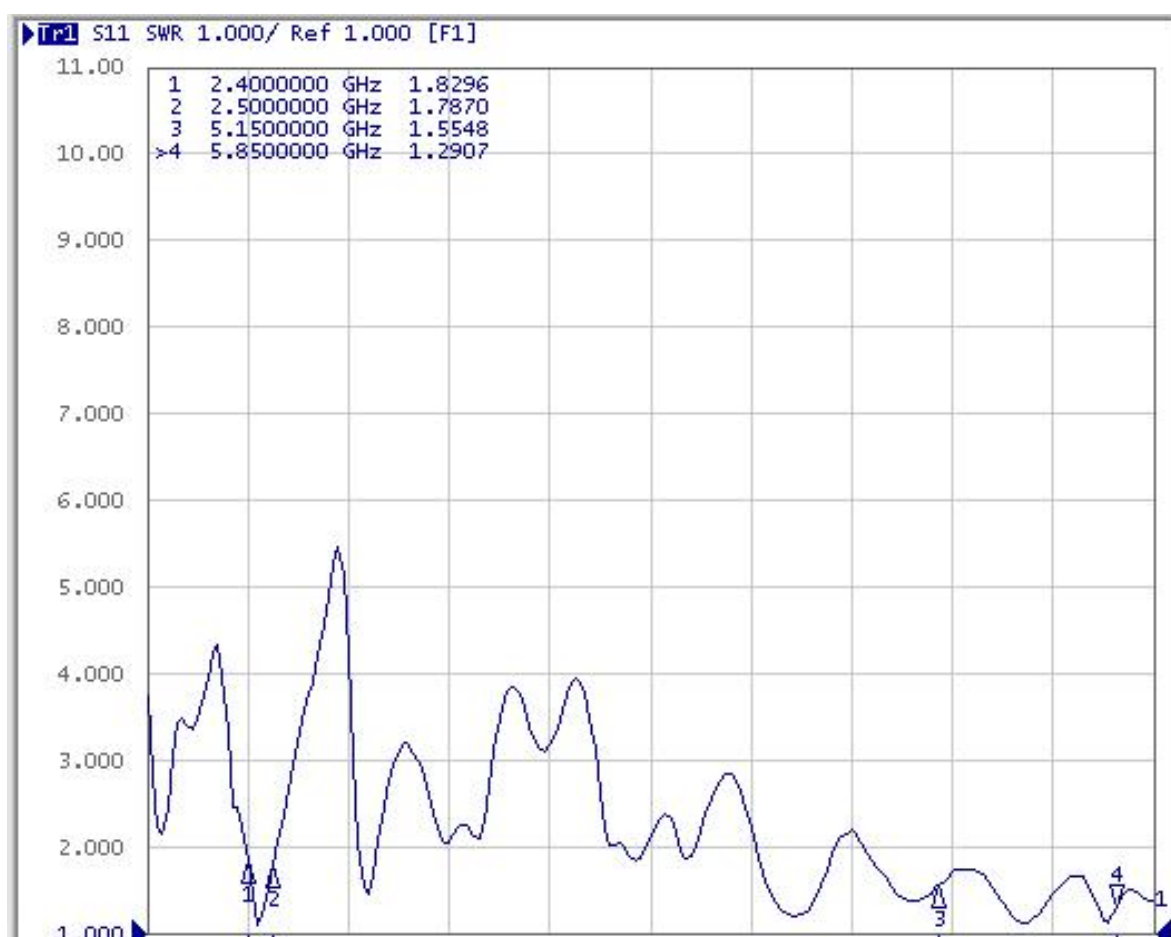
Fig.1 Antenna measured in Network Analyzer

3. S-Parameter Measurement Result

S-Parameter test data

Frequency	2400MHz	2500MHz	5150MHz	5850MHz
V.S.W.R	1.82	1.78	1.55	1.29

S-Parameter test image



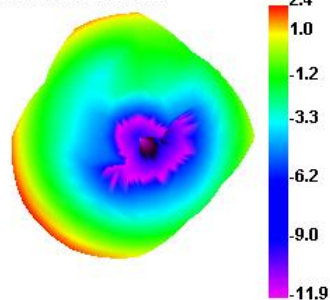
Efficiency and Gain Testing Report

Passive Test For 2.4G-T1			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	60.23	-2.2	2.4
2405	61.42	-2.12	2.52
2410	66.77	-1.75	2.91
2415	68.63	-1.64	2.98
2420	68.59	-1.64	3.03
2425	68.73	-1.63	3.03
2430	69.27	-1.59	3.08
2435	69.91	-1.55	3.13
2440	70.17	-1.54	3.14
2445	72.73	-1.38	3.32
2450	74.89	-1.26	3.48
2455	74.38	-1.29	3.49
2460	75.14	-1.24	3.55
2465	75.64	-1.21	3.58
2470	75.35	-1.23	3.55
2475	75.81	-1.2	3.55
2480	71.92	-1.43	3.32
2485	70.38	-1.53	3.24
2490	67.16	-1.73	2.99
2495	66.99	-1.74	2.98
2500	64.56	-1.9	2.82

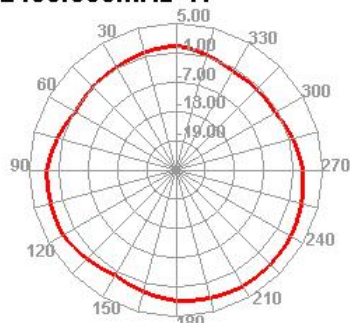
Passive Test For 5.8-T1			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	71.93	-1.43	3.41
5200	90.06	-0.45	4.7
5250	87.18	-0.6	4.66
5300	63.52	-1.97	3.53
5350	68.79	-1.62	3.88
5400	97.81	-0.1	5.52
5450	91.45	-0.39	5.28
5500	84.07	-0.75	5.11
5550	81.29	-0.9	4.85
5600	76.84	-1.14	4.53
5650	78.41	-1.06	4.52
5700	69.41	-1.59	3.92
5750	71.62	-1.45	3.88
5800	71.09	-1.48	4.04
5850	71.73	-1.44	4.4
5900	56.96	-2.44	3.76

Radiation Pattern of 2.4G and 2.5G

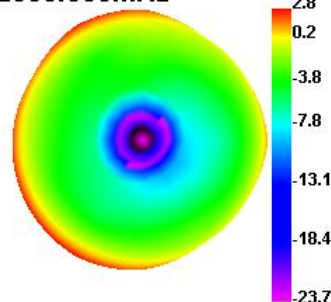
2400.000MHz



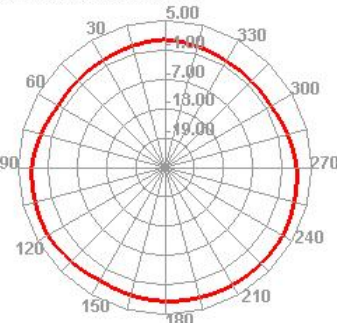
2400.000MHz H



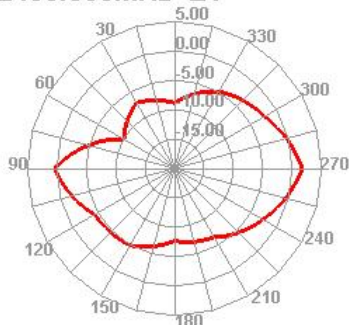
2500.000MHz



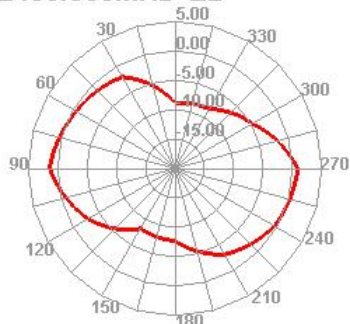
2500.000MHz H



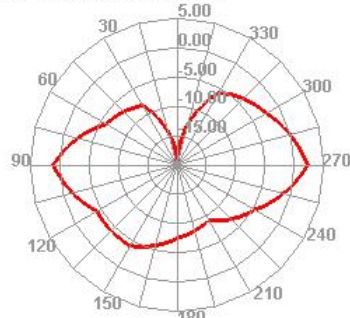
2400.000MHz E1



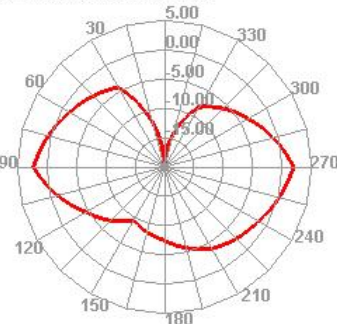
2400.000MHz E2



2500.000MHz E1

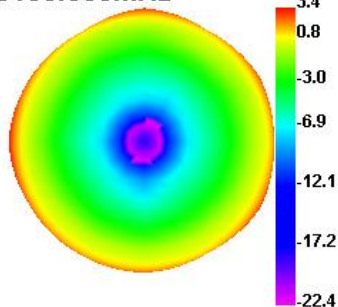


2500.000MHz E2

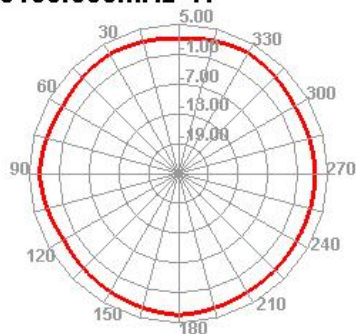


Radiation Pattern of 5.15G and 5.85G

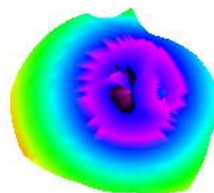
5150.000MHz



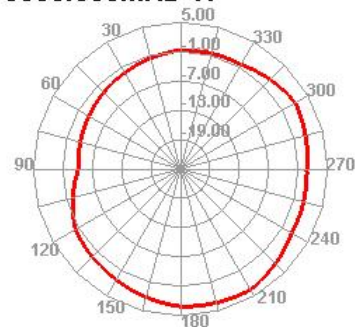
5150.000MHz H



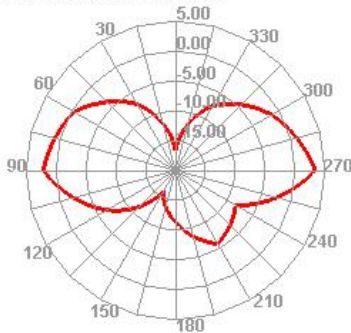
5850.000MHz



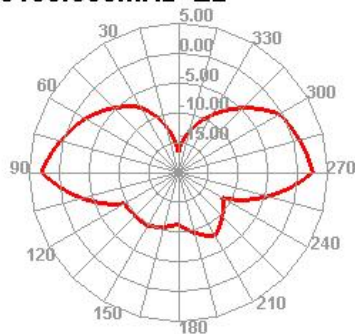
5850.000MHz H



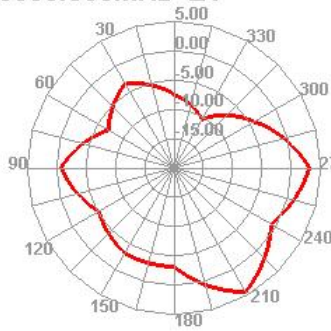
5150.000MHz E1



5150.000MHz E2



5850.000MHz E1



5850.000MHz E2

