

Shenzhen Yunding Communications Electronics Co., Ltd.

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APPROVAL SHEET

CUSTOMER :

DESCRIPTION: FPC(SY-WIFI-01)-2.4 – 5.8GHz-1.13Black-L150MM-RF-1

PART NO.:

CUS PART NO.:

2026-9-4

D A T E:

Yunding Sample Signature Seal

ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

Customer Acknowledgment and Signature

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

Contact number: 0755 23073599

This Acknowledgment is issued in three original copies; please affix your official seal and signature to this document.

✂ Approval in duplicate, please signed by your company.

Shenzhen Yunding Communications Electronics Co., Ltd.

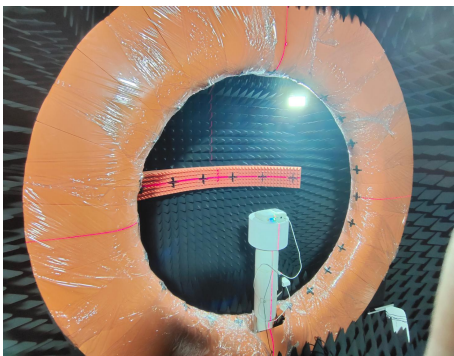
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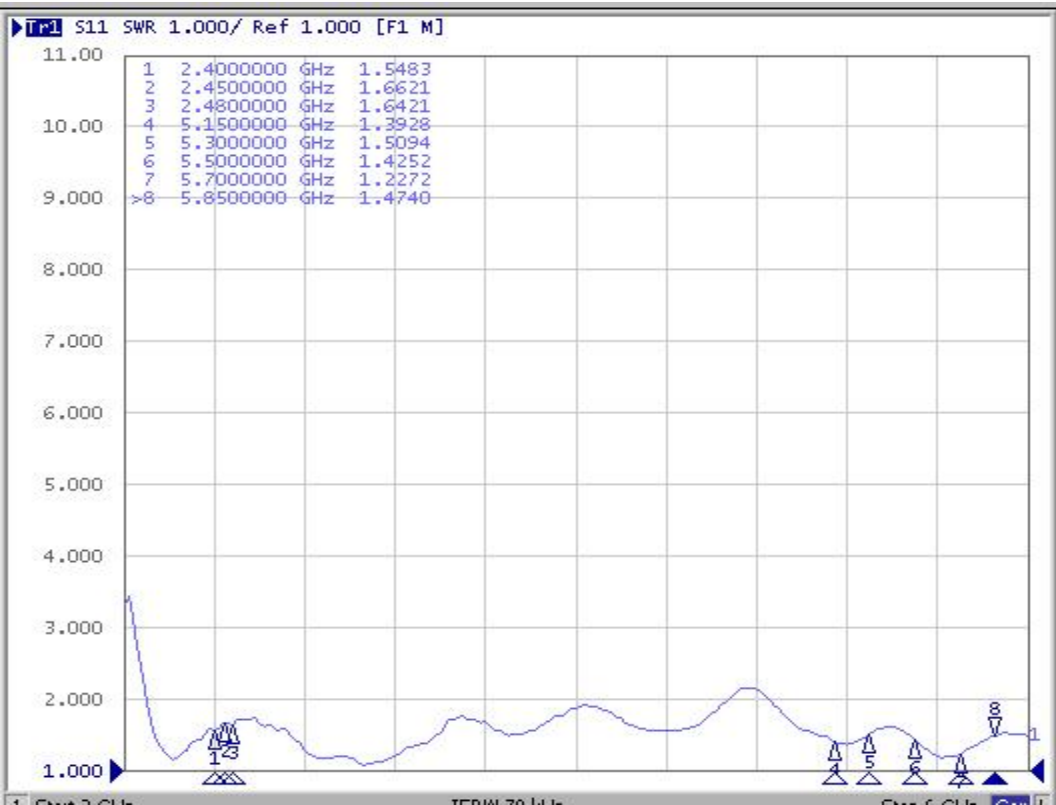
1. Test Items and Equipment

	Test item	Equipment
1. S11 S-parameters	1. Return Loss 2. Voltage Standing Wave Ratio (VSWR)	Network Analyzer: Agilent E5071B HP 8753D
2. Active Test	1. Transmitter Power (TRP) 2. Received Sensitivity (TIS)	1. Darkroom: ETS 7×4×3 m (3D) Chamber; ETS 5×3×3 m (3D) Chamber 2. Comprehensive Test Instrument: Agilent 8960 E5515B ×2, StarPoint SP6011, Cmw500
3. Passive Testing	1. Antenna gain (Gain) 2. Antenna efficiency (Efficiency)	1. Darkroom: ETS 7×4×3 m (3D) Chamber; ETS 5×3×3 m (3D) Chamber 2. Network Analyzer: Agilent E5071B HP 8753D



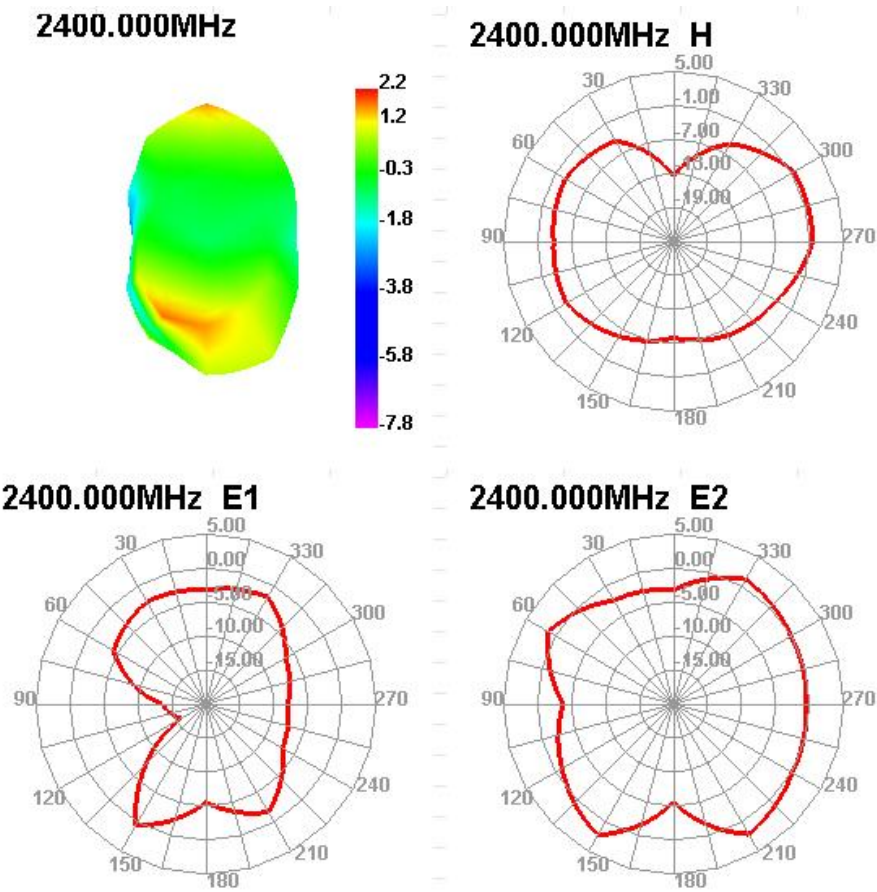
2. Antenna Performance

SWR



3. Antenna Efficiency and Gain

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	43.31	2.23
2410	44.09	2.14
2420	49.98	1.8
2430	42	1.87
2440	44.57	2.02
2450	50.41	2.43
2460	50.15	2.39
2470	53.86	2.65
2480	54.07	2.78
2490	57.9	2.98
2500	56.6	2.93



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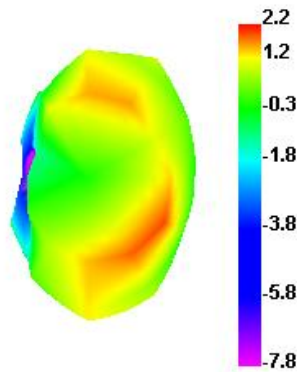
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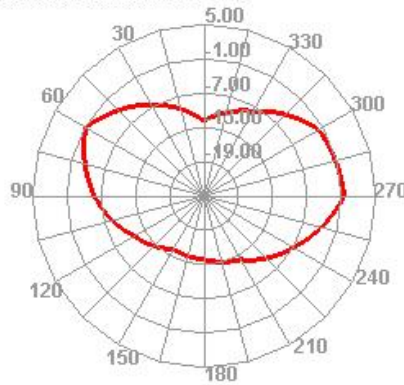
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Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	44.32	2.16
5250	46.87	2.79
5350	58.25	4.14
5450	53.87	3.65
5550	50.92	2.7
5650	44.29	1.14
5750	47.6	0.79
5850	51.41	1.74

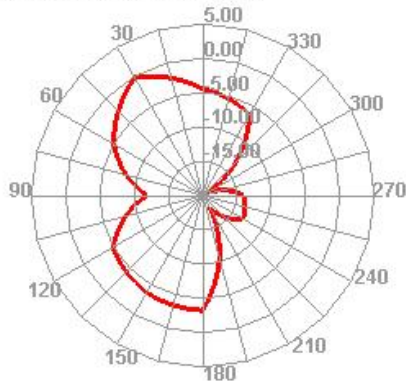
5150.000MHz



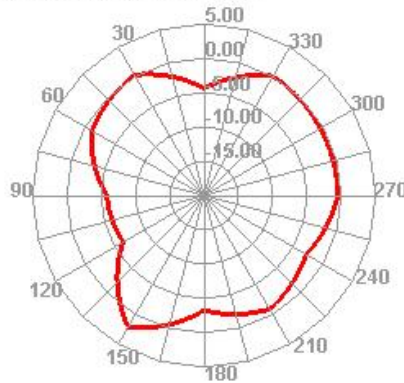
5150.000MHz H



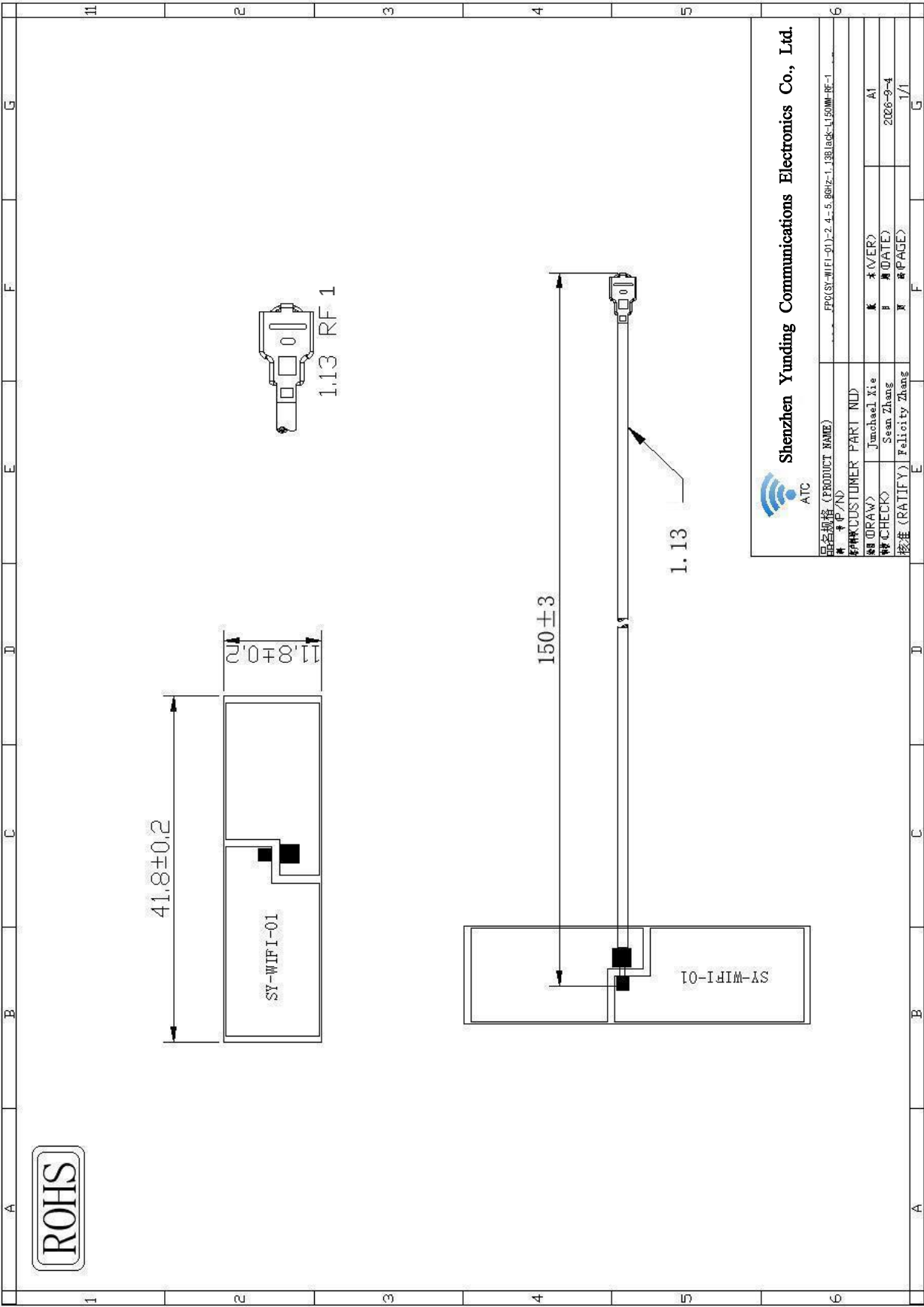
5150.000MHz E1



5150.000MHz E2



4. Antenna Structure Diagram:



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Electrical Technical Specifications			
Electrical Performance Metrics		Electrical Specifications	
Frequency range	2400~2500/5150~5850 MHz	Frequency Range	2400~2500/5150~5850 MHz
Voltage standing-wave ratio	≤2.0	VSWR	≤2.0
Maximum gain	4.14 DBI	Max gain	4.14 DBI
Input impedance	50 Ω	Input Impedance	50 Ω
Maximum input power	50W	Maximum Input Power	50W
Mechanical Parameters		Mechanical Specifications	
Wire color	Black	Wire Color	Black
Interface Format	RF Generation 1 Terminal	Input connector	RF Gen 1 Terminal
Wire length	150 MM	Wire length	150 MM
Working temperature	-40℃~+85℃	Working Temperature	-40℃~+85℃
Work environment humidity	20~80%	Working Humidity	20~80%