

Acknowledgement

SPECIFICATION FOR APPROVAL

CUSTOMER NAME: 360

PRODUCT NAME: 2.4 G 3dBi Internal antenna L=110mm

CUSTOMER P/N:

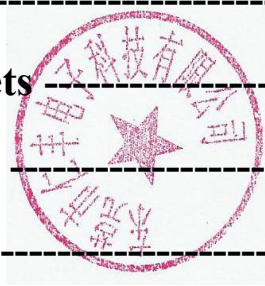
Ren Feng P/N: U00T02S000N02803 REV: A

Internal structure: PCB

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Zhou Rongchuang	
AUDITOR BY:	Xiao-Lin Liu	
APPROVED BY:	Yao Dingjun	
DATE:	2023-02-21	

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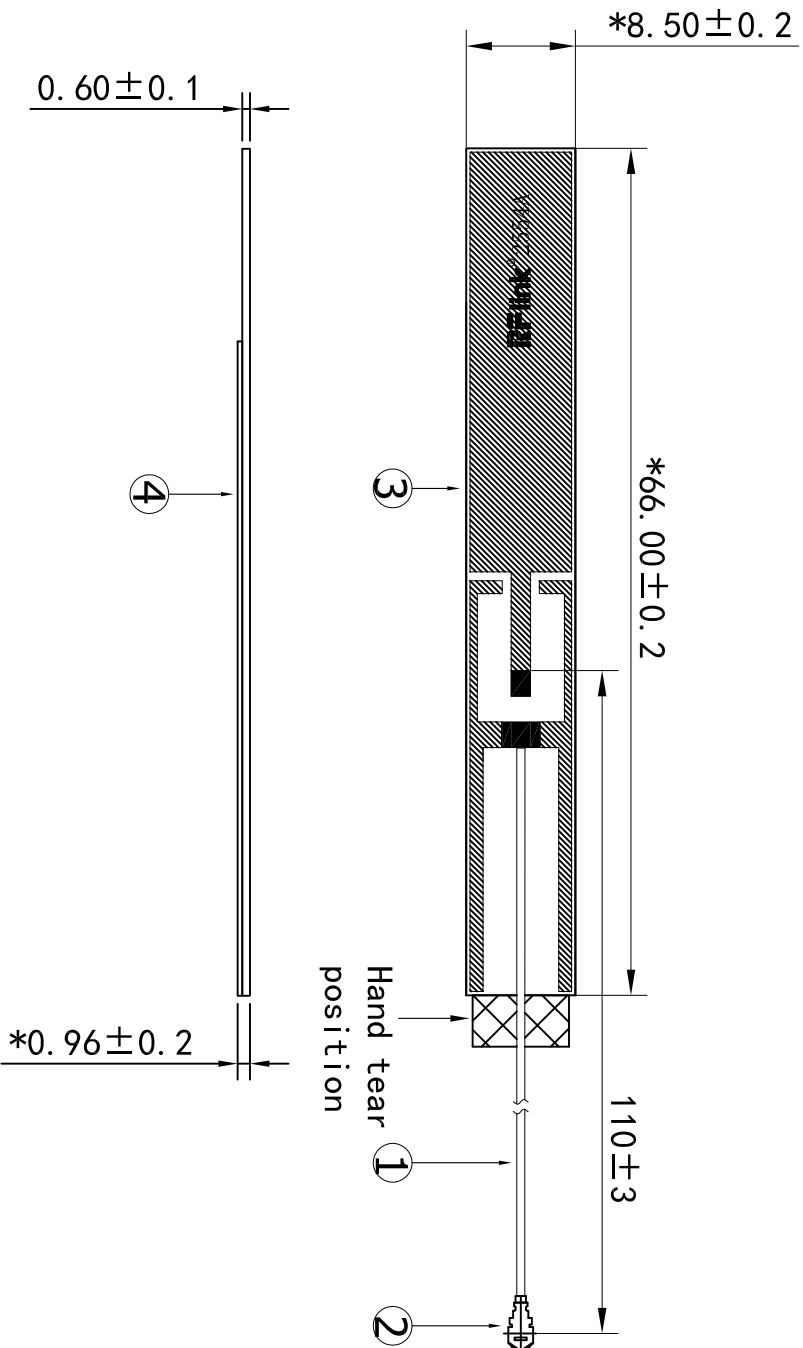
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Main technical specifications

Main technical specifications		Main technical specifications	
Frequency Range (MHZ)	2400-2500MHZ	Frequency Range (MHZ)	2400-2500
Impedance(Ω)	50	Impedance(Ω)	50
Gain(dBi)	3	Gain(dBi)	3
Return Loss(dB)	≤ -9.5	Return Loss(dB)	≤ -9.5
VSWR	≤ 2.0	VSWR	≤ 2.0
Polarization	Linear, Vertical	Polarization	Linear, Vertical
Radiation	Omni-directional	Radiation	Omni-directional
Connector Type	terminal	Connector Type	terminal
Physical Properties		Physical Properties	
AntennaBase	PCB	Antenna Base	FR-4
Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

REV	DATE	DESCRIPTION	Change the code
A	2023-02-17	NEW ISSUE	



规格Specification:
频率Frequency Range: 2. 4-2. 5GHz

NO.	DESCRIPTION	QTY	REMARK
4	Double-sided adhesive	1	3M300LSE;
3	PCB	1	FR-4;
2	terminal	1	Copper;
1	Wire bar	1	φ1.13 Gray;
带公差尺寸为检验尺寸			
产品符合环保RoHS2.0之要求			

尺寸范围 (mm)	公差 (mm)
0<L≤6	±0.10
6<L≤30	±0.10
30<L≤90	±0.15
90<L≤180	±0.20
180<L≤315	±0.25
315<L≤800	±0.35
角度	±0.5°

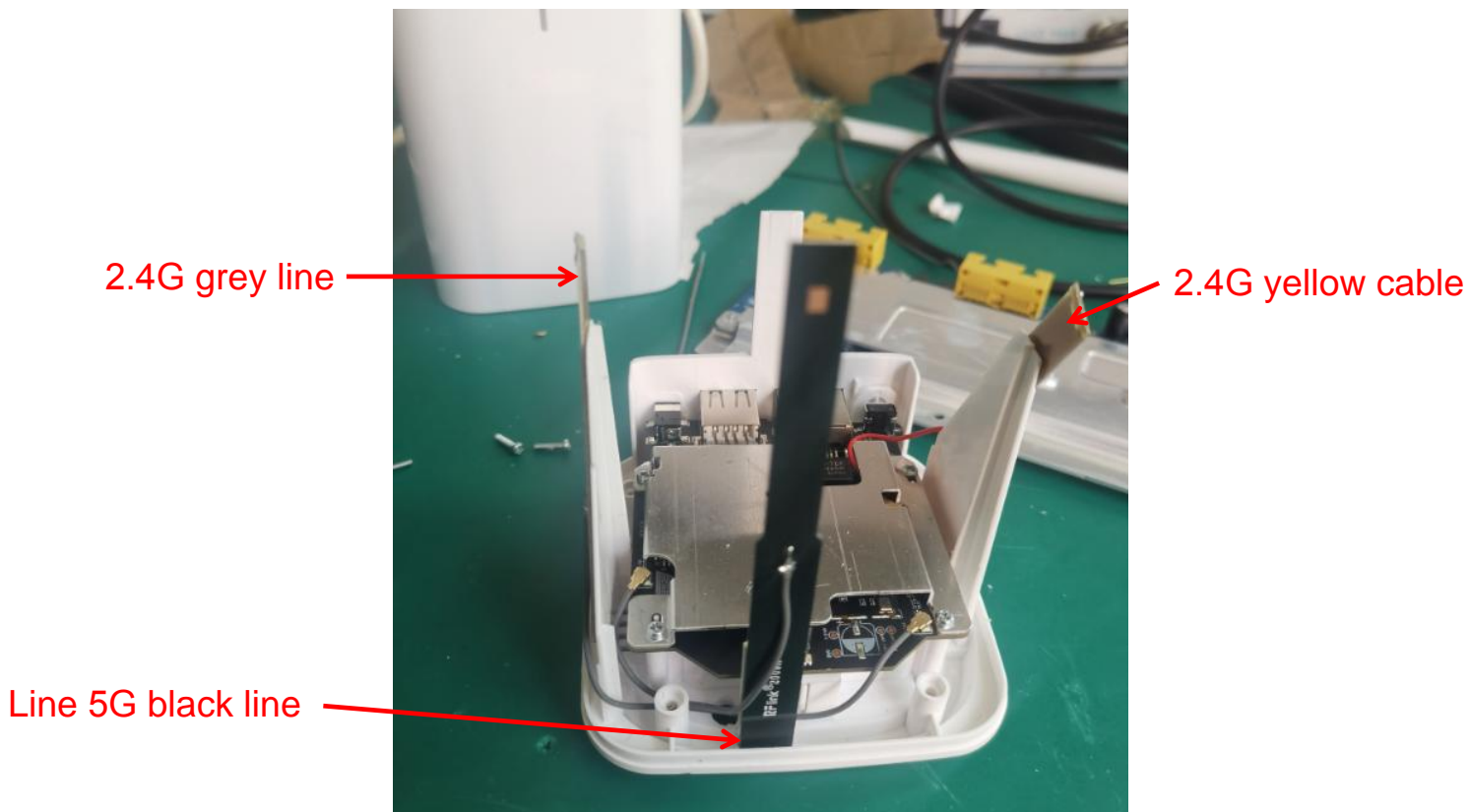
APPROVED	CHECKED	DRAWING

CUSTOMER:				
PART NO :				
PARTNAME :	RF Antenna Assembly			
R.F P/NO :	U00T02S000N02803			
REV	UNIT	SCALE	SIZE	SHEET
A	mm	1:1	A4	10F1

东莞市仁丰电子科技有限公司
RenFeng Electronic technology Co., LTD.

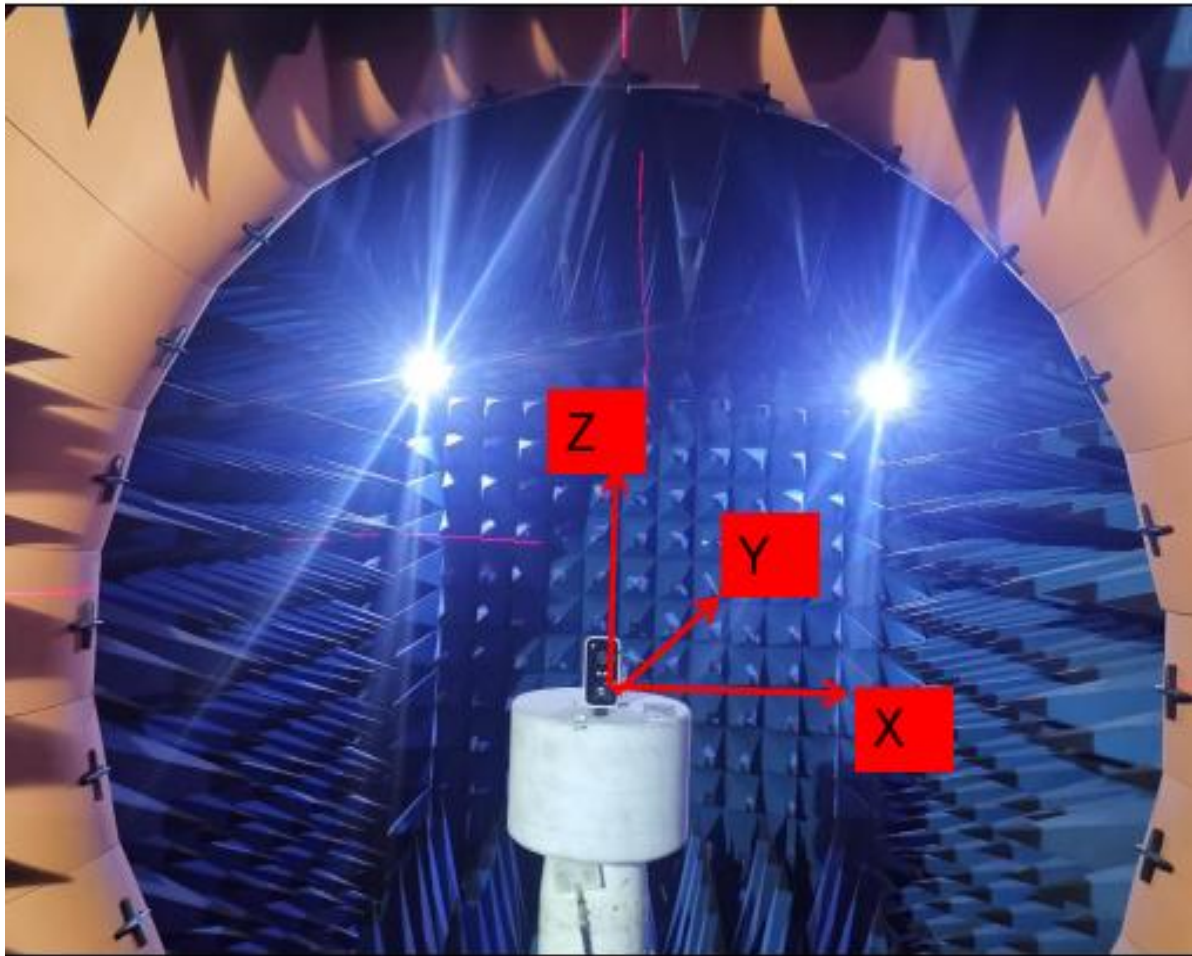
Antenna assembly diagram

Machine equipment WIFI antenna



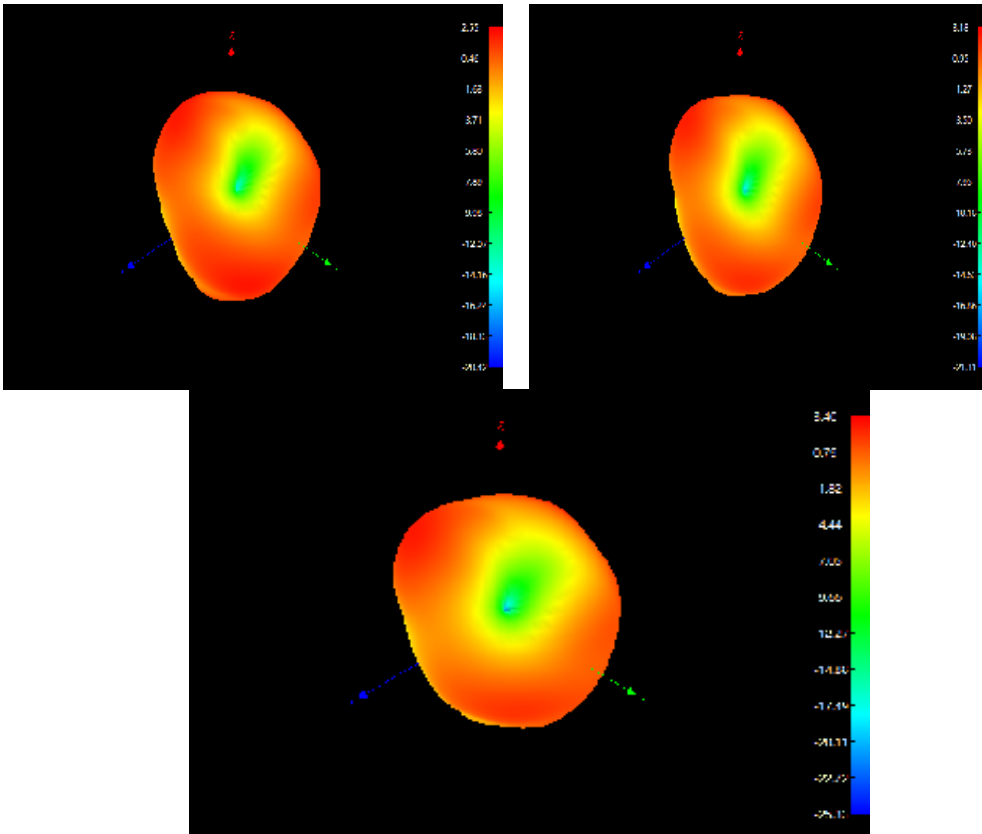
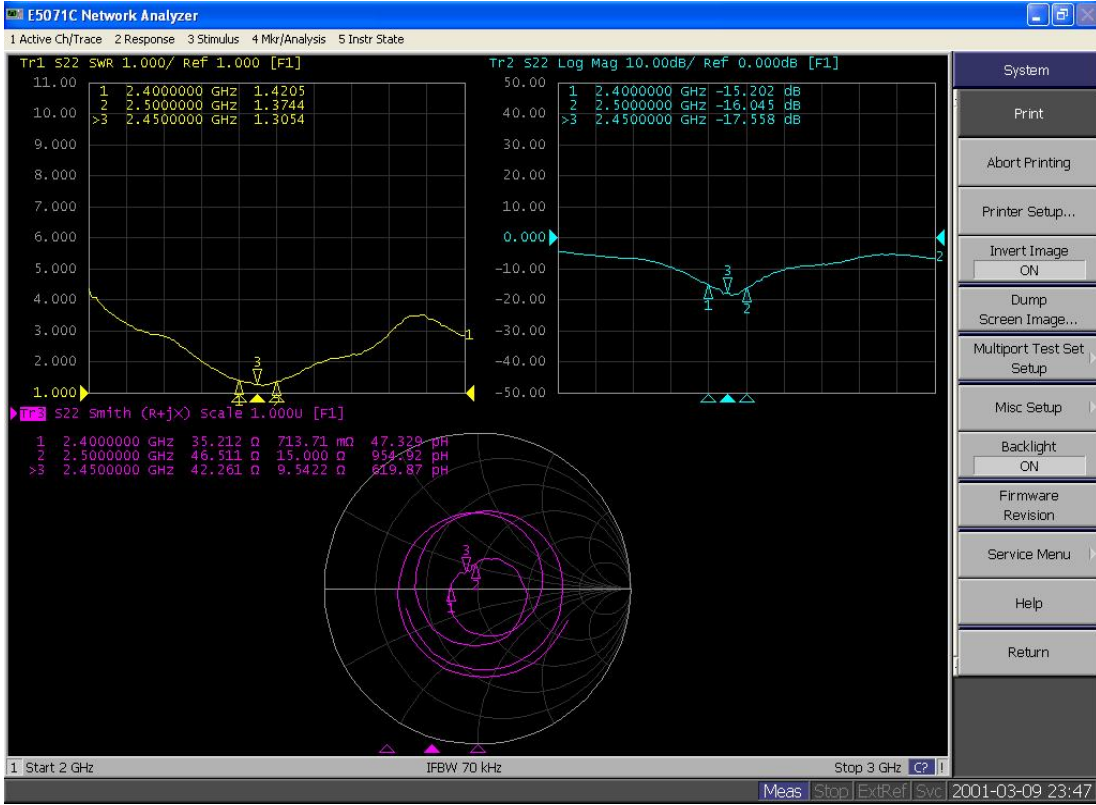
Antenna assembly diagram

Horizontal plane: XY plane

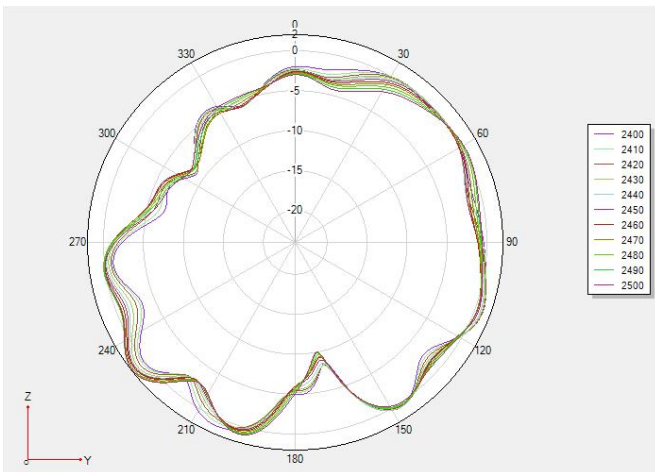
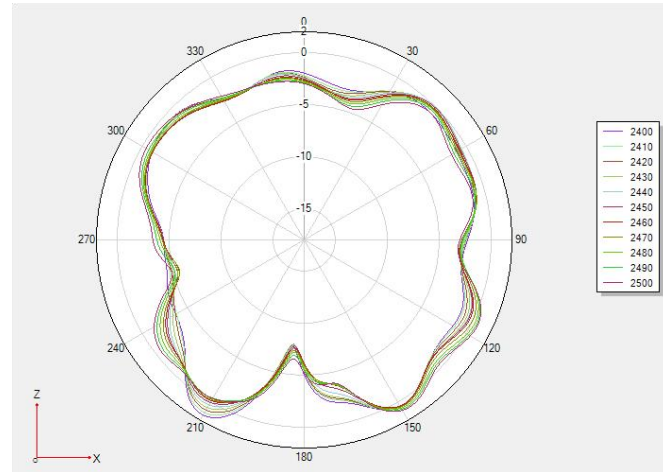
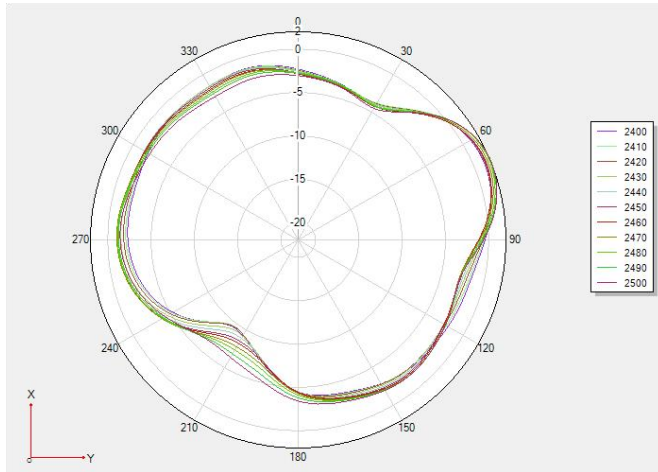


6. Testing report

6.1 Network analyzer test report



2.4G



6.2:Antenna gain, efficiency meter

Freq (MHz)	Effi (%)	Gain (dBi)
2400	69.82	3.92
2410	70.96	3.58
2420	71.45	3.24
2430	72.78	2.93
2440	72.95	2.59
2450	71.94	2.28
2460	70.79	2.02
2470	70.63	1.86
2480	70.79	1.96
2490	70.31	2
2500	69.98	2.01

7、ROHS/ Raw material list:

Meet RoHS requirements。

Serial number	Name	Material	QTY	Unit	Supplier	UL certification number
1	PCB	FR-4	1	pc	Junyi	/
2	1.13 Coaxial line	Tinning/FEP	1	pc	China Ocean Unicom	/
3	Terminal	Phosphor bronze	1	pc	Kexincheng	/
4	Linear sponge	Sponge T10	1	pc	Pengsheng	/