



Shenzhen Xinersheng Technology Co., LTD

ShenZhen XinErSheng Technology Co.,Ltd

acknowledgement

SPECIFICATION FOR APPROVAL

customer name : Liyuan

Product Name: 2.4G/5.8G FPC Built-in Antenna 0.81mm Black Wire L=65mm with 4th Generation Clip

Customer part number:

Manufacturer part number: XESANT12B13501

Number of samples sent: 5PCS

fabrication	examine and verify	approval	Date of sample delivery
Sun Chuan-yung	Founder and Director	Li Qinghui	2025.07.25

The client acknowledged that:

admit	examine and verify	approval	Date of admission

Acknowledgement: ☒ new product ☐ Product changes

Recognized projects: ☐ Two originals of the letter of acknowledgment ☐ Sample 5PCS

Concluding observations: ☐ receive ☐ refuse

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Product Main Technical Parameters

Main technical parameters		Main technical specifications	
Frequency range (MHZ)	2400-2500/5150-5850	Frequency Range(MHZ)	2400-2500/5150-5850
center frequency Characteristic impedance(Ω)	50 ± 10	Impedance(Ω)	50 ± 10
gain (dBi)	2.5 ± 1	Gain(dBi)	2.5 ± 1
reflection loss	≤ -10	ReTurnLoss(dB)	≤ -10
Output voltage standing wave ratio	≤ 2	VSWR	≤ 2
Polarization mode	vertical polarization	Polarization	Linear Vertical
attended mode	IPEX	Connector Type	IPEX
physical characteristics		Physical Properties	
Antenna body material	FPC	Antenna Base	FPC
working temperature	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$	Operating Temp	$-20^{\circ}\text{C} - +60^{\circ}\text{C}$
Storage temperature	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$	Storage Temp	$-20^{\circ}\text{C} - +70^{\circ}\text{C}$

Raw material list:

Component number	Component name	Main material of raw material	Number of uses	unit	remarks
1	FPC	9471 Adhesive tape	1	PCS	
2	0.81 The Line	0.81 The Black Line	1	PCS	
3	terminal	copper	1	PCS	

成品图

Specification:
Frequency Rang:2400-2500MHZ
5150-5850MHZ
Return Loss:-10DB or less
VSRW:2 Max
Gain:2.5 dbi

手撕位

—丝印XES-WFI-LY-V4.0

0.81线

四代端子

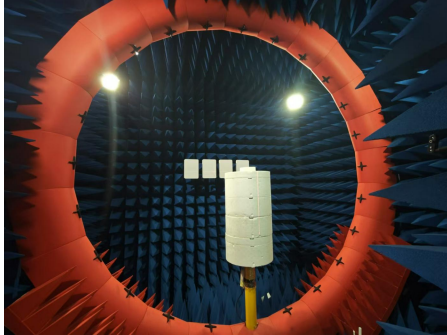
四代端子

TITLE:		2.4G/5.8G PCB内置天线0.81黑色线 L=65MM带四代扣			
P/N	深圳市鑫尔盛科技有限公司				
CUSTOMER:					
DRAW NO:					
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED					
一般公差		SHEET: 1/1		SCALE: 1/1	
TOLERANCE		UNIT: MM		REV. A	
				DRAWED	

幅面: A4

Test Report:

Test Equipment



OTA test macro

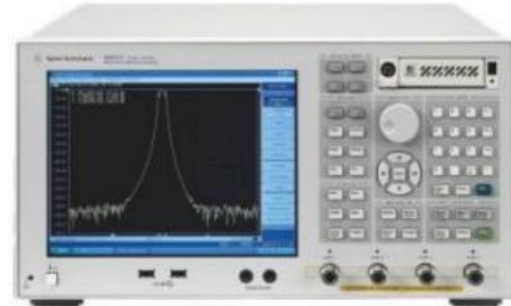
Brand: Feitu

Frequency range 400MHz-8.5GHz

The dark room measures 4m * 4m * 4m

Number of probes: 24 (23 bipolar probes, 1 talk probe) Function: 2G / 3G / 4G / BT / WIFI and other integrated passive antenna test.

Function: passive, active test; G network, C network, 2G/3G/4G, WIFI, BT and other systems TRP, TIS test, etc.



Model: 5071C

Brand: Agilent

Frequency range: 9KHz-8.5GHz



Model: 8960

Brand: Agilent

Frequency range: 292MHz-2700GHz

Function: meet 2G/3G active test



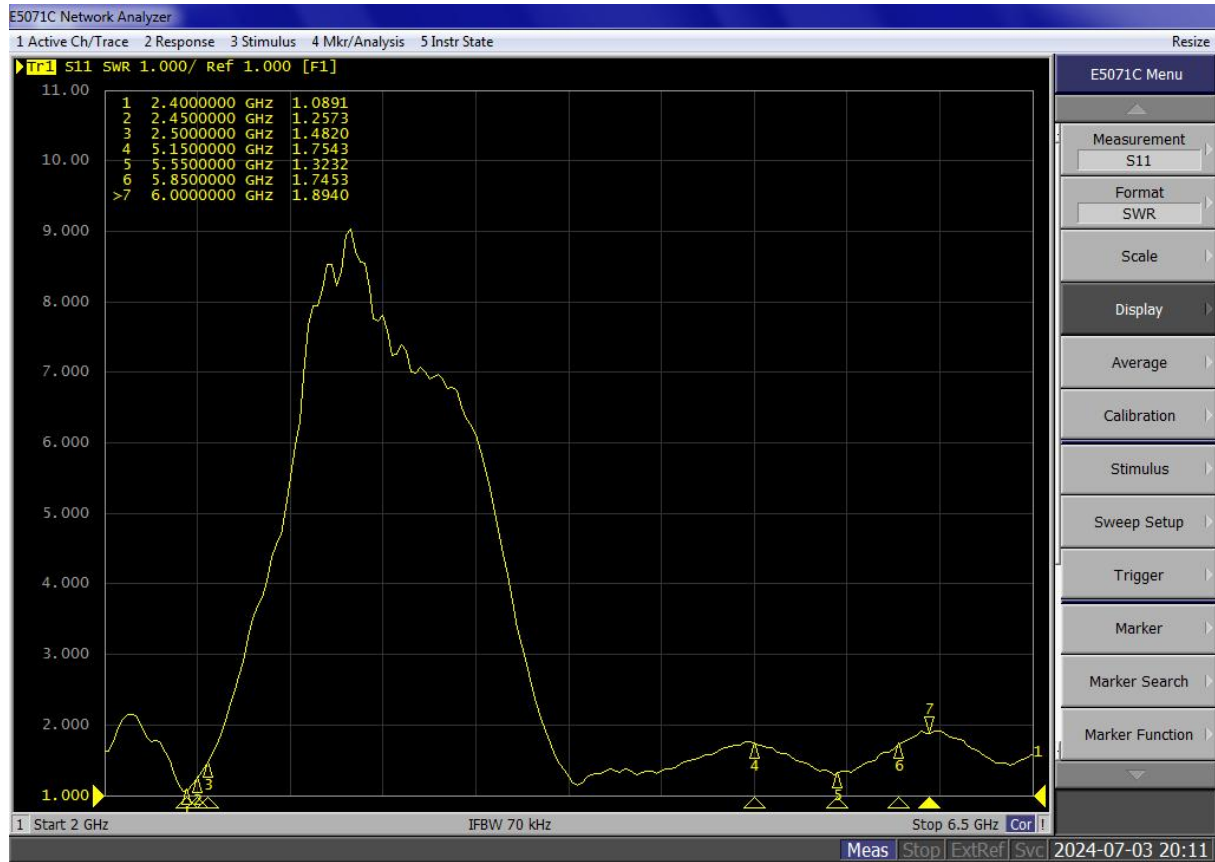
Model: CMW500

Brand: Rod & Schwarz

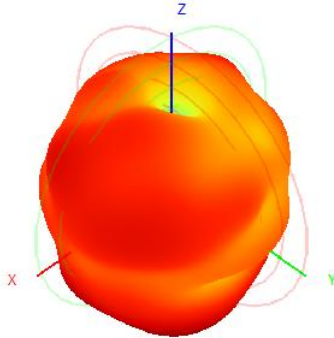
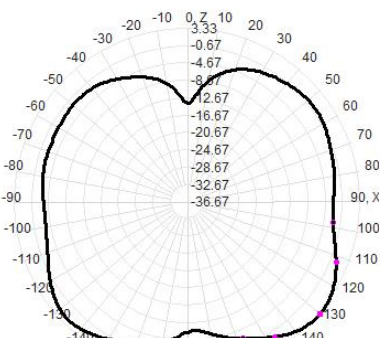
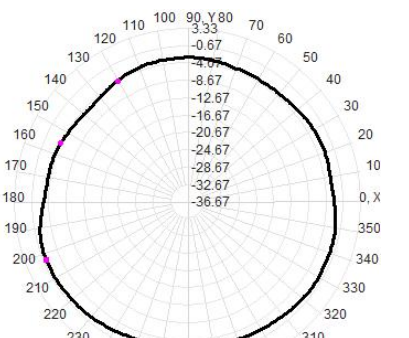
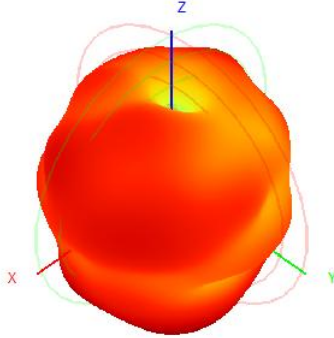
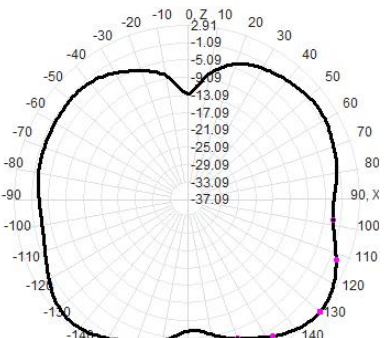
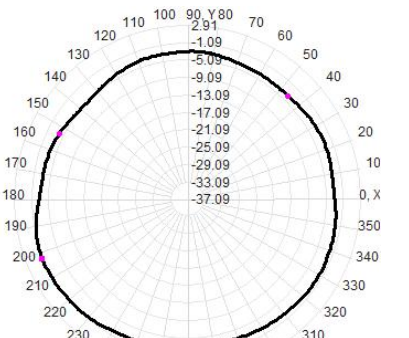
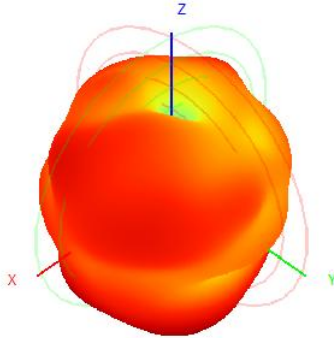
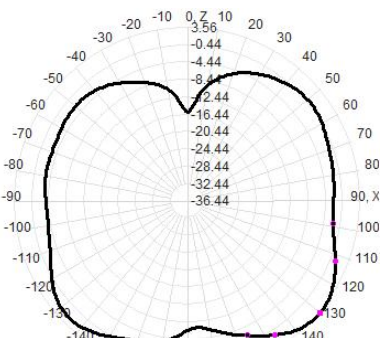
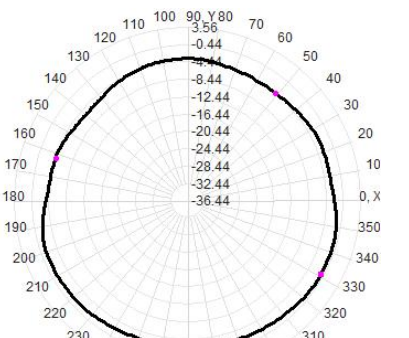
Frequency range: 70KHz-6GHz

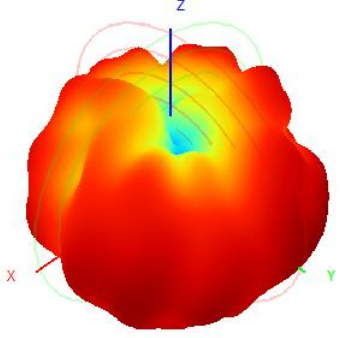
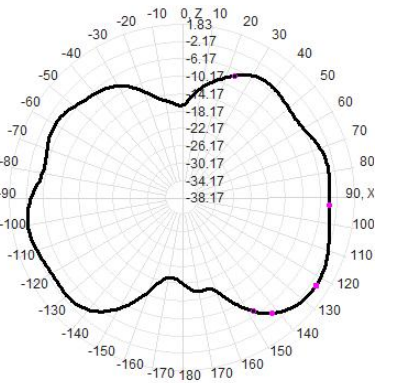
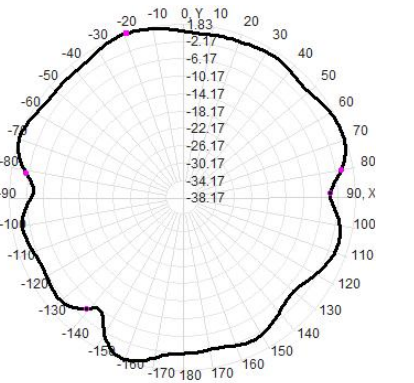
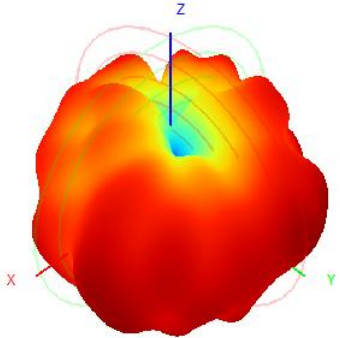
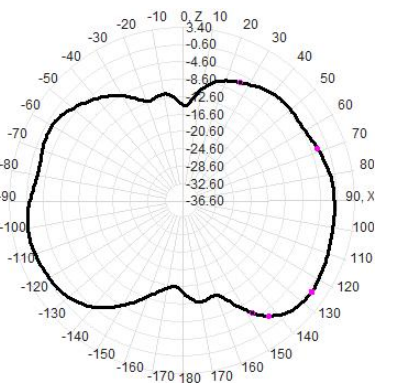
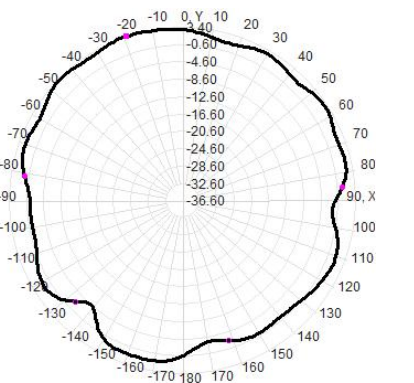
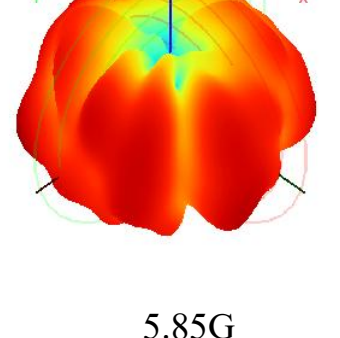
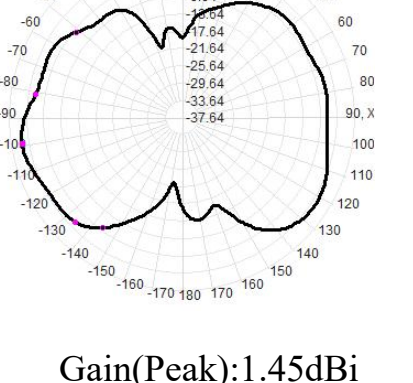
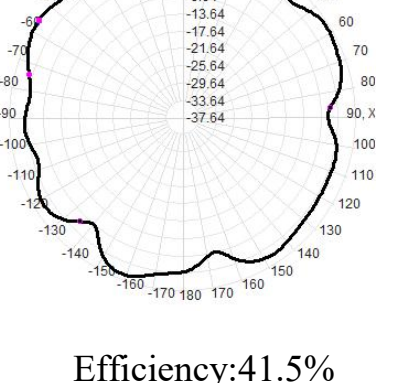
Function: 2G/3G/4G/BT/WIFI/NB-Lot and other integrated active antenna test

Network analyzer test report:



2D、3DRaditation Pattern

		
2.4G	Gain(Peak):2.33dBi	Efficiency:61.5%
 2.45G	 Gain(Peak):2.51dBi	 Efficiency60.8%
 2.5G	 Gain(Peak):2.56dBi	 Efficiency:63.4%

		
5.15G	Gain(Peak):1.82dBi	Efficiency:42.5%
		
5.5G	Gain(Peak):2.13dBi	Efficiency:45.3%
		
5.85G	Gain(Peak):1.45dBi	Efficiency:41.5%



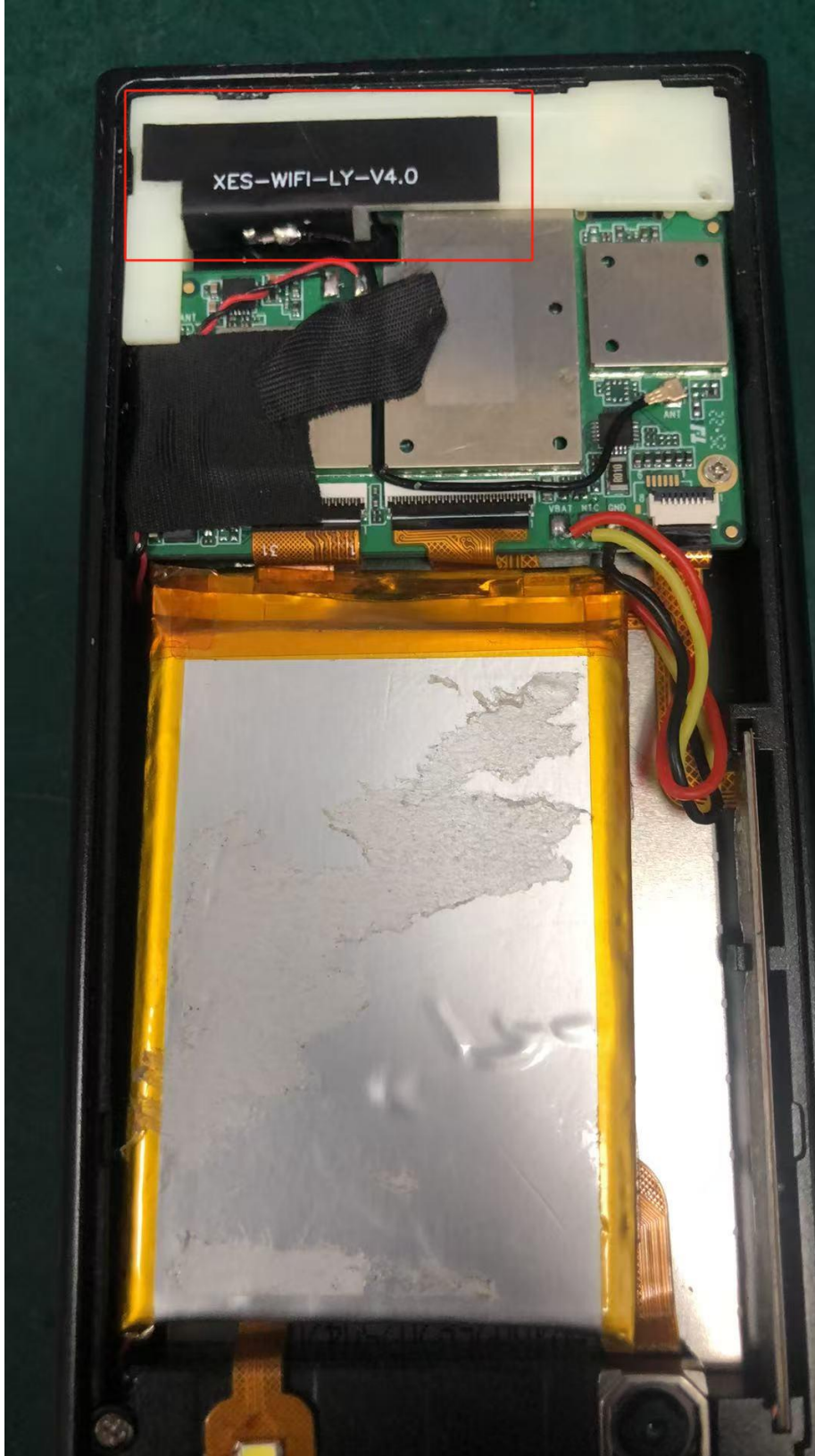
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Active test data:

V1	Band		TRP	Band		TIS
	B-11■	1	11.54	B-11■	1	-78.59
		6	11.25		6	-79.95
		11	10.56		11	-78.85
	A-54■	36	10.05	A-54■	36	-70.15
		149	11.24		149	-72.17
		165	11.45		165	-73.54

assembly drawing :



Product packaging specifications

Product Name/Specification

I. Labeling requirements

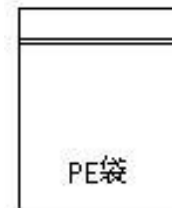
Purchase order number	*****
material code	*****
Name and specification	*****
Quantity/Unit	*****
remarks	*****

Purchase order number	*****
material code	*****
Name and specification	*****
Quantity/Unit	*****
remarks	*****

II. Packing requirements and operation instructions:

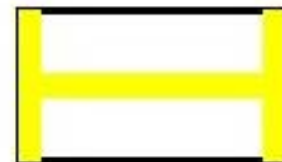
1. inner packing :

Product 100 PCS a small bag

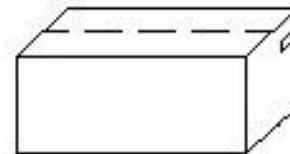


2. external packing :

Determine quantity/cases based on actual quantity



纸箱



Matters Need Attention :

- Whether to add partition, pearl cotton;
- Labeling, such as ROHS;