



# Material acknowledgement

Acknowledgement number: \_\_\_\_\_

stock number: 6111500670

supplier: Shenzhen feimin technology co., ltd

project: FM-S855-MW-P5

Material name: Built-in 2.4G antenna

Material specification: \_\_\_\_\_

Sample sending reason: \_\_\_\_\_

remarks:

Confirmation of supplier's material production: (seal required)

formulate	check	approve	Seal
FanMa	XingxiXia	DongdongMa	

Yundong chuangxiang approval:

responsi bility	check	check and ratify	quality	Seal



Shenzhen yun dong Chuang Xiang technology co., ltd

List of material recognition data items

serial number	Data item	condition	remarks
1	Parts test/verification report	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____
2	Supplier to provide recognition information.		
	2. 1 Product specification	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 1. 1 Appearance/size specificati	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 1. 2 Functional specification	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 1. 3 packing specifications	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 1. 4 Specification of application and storage condition	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 1. 5 Screen printing, LOGO, coding, etc.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	2. 2 Environmental protection information	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____
	(including ROHS declaration of conformity and SGS report)		
	2. 3 Test report of sample delivery.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	_____

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# ANTENNA SPECIFICATION

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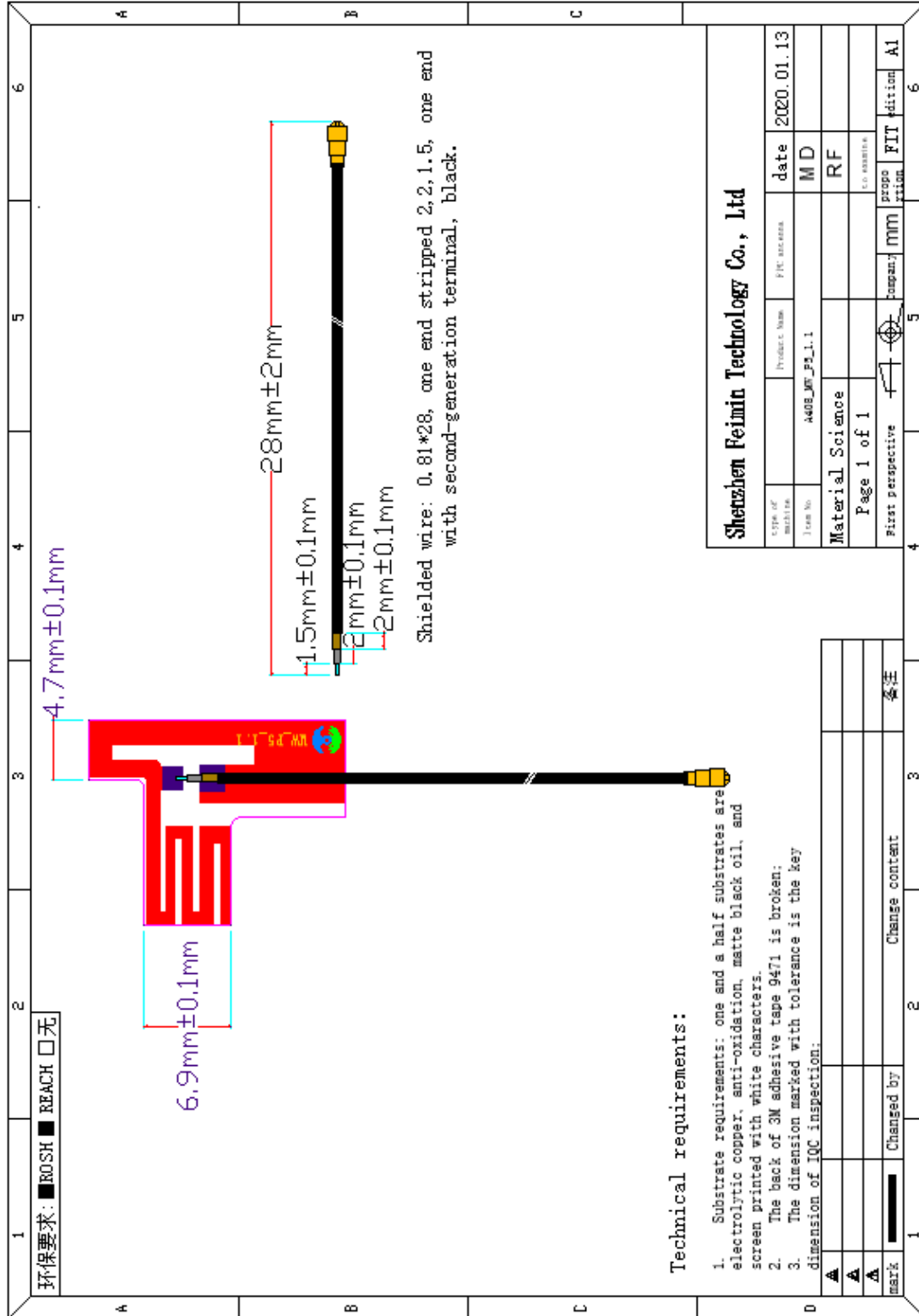
## Revision history

version	date	condition
A1	2020-01-13	First edition

# ANTENNA SPECIFICATION

## 1. Project Information

### 1.1. Appearance and Dimensions

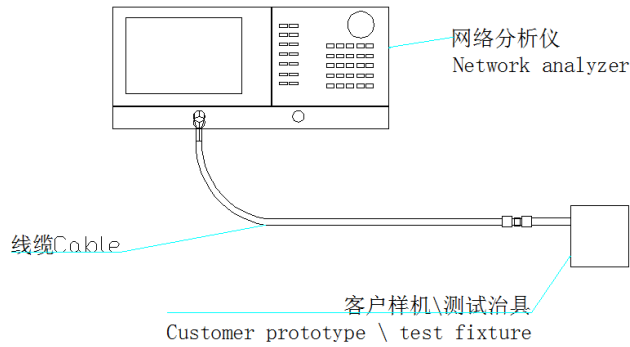


## 2. Electrical Characteristics

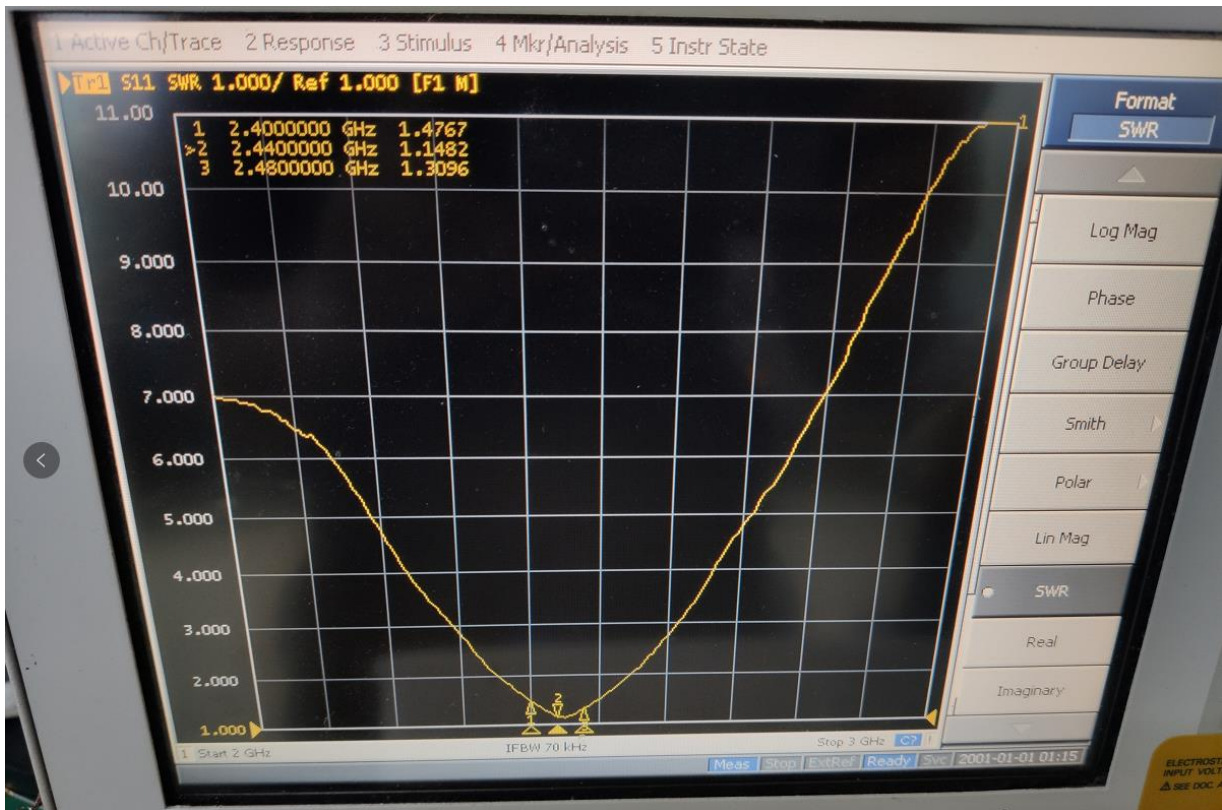
### 2.1. Test Environment Conditions

Temperature	Ordinary Temperature (5 to 35°C)
Humidity	Ordinary Humidity (25 to 85% RH)

### 2.2. Measurement method

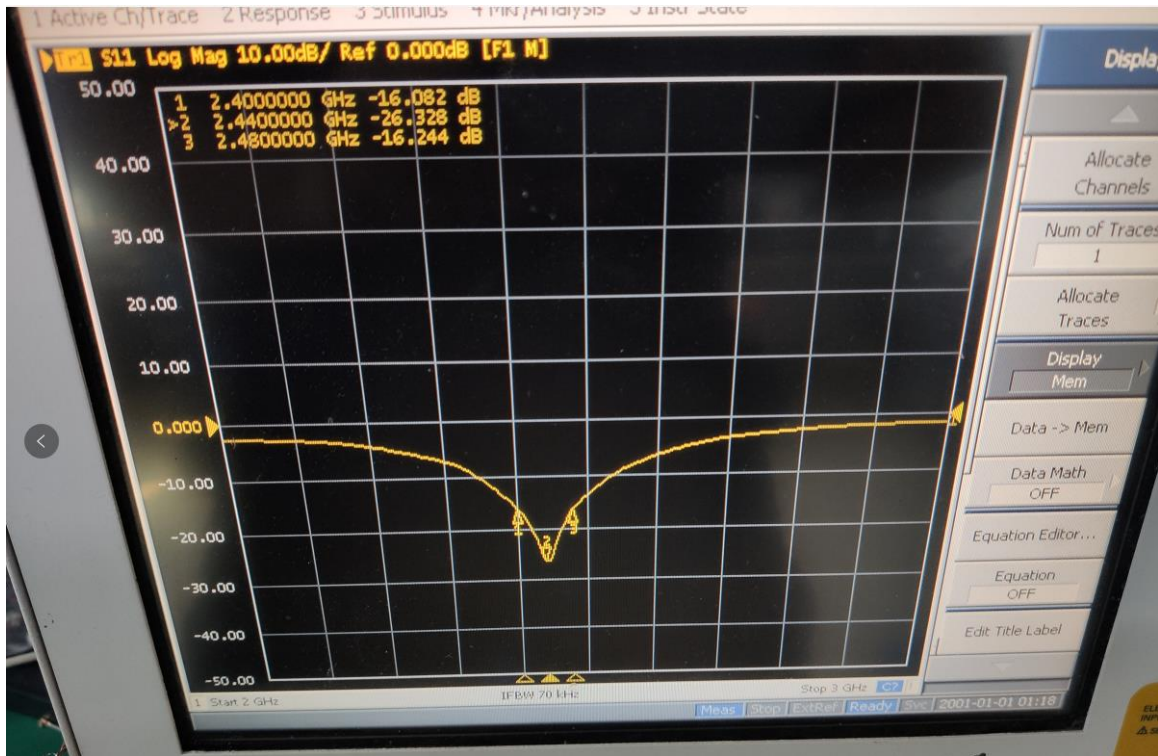


#### 2.2.1. VSWR



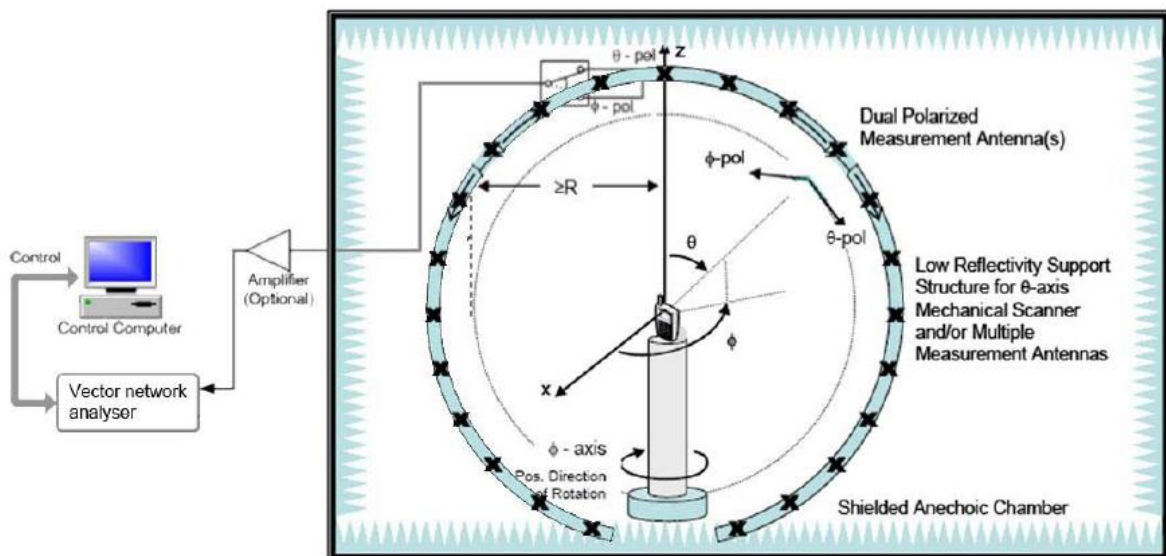
# ANTENNA SPECIFICATION

## 2.2.2. Log Mag



## 2.3. Efficiency and Gain

### 2.3.1. Test system

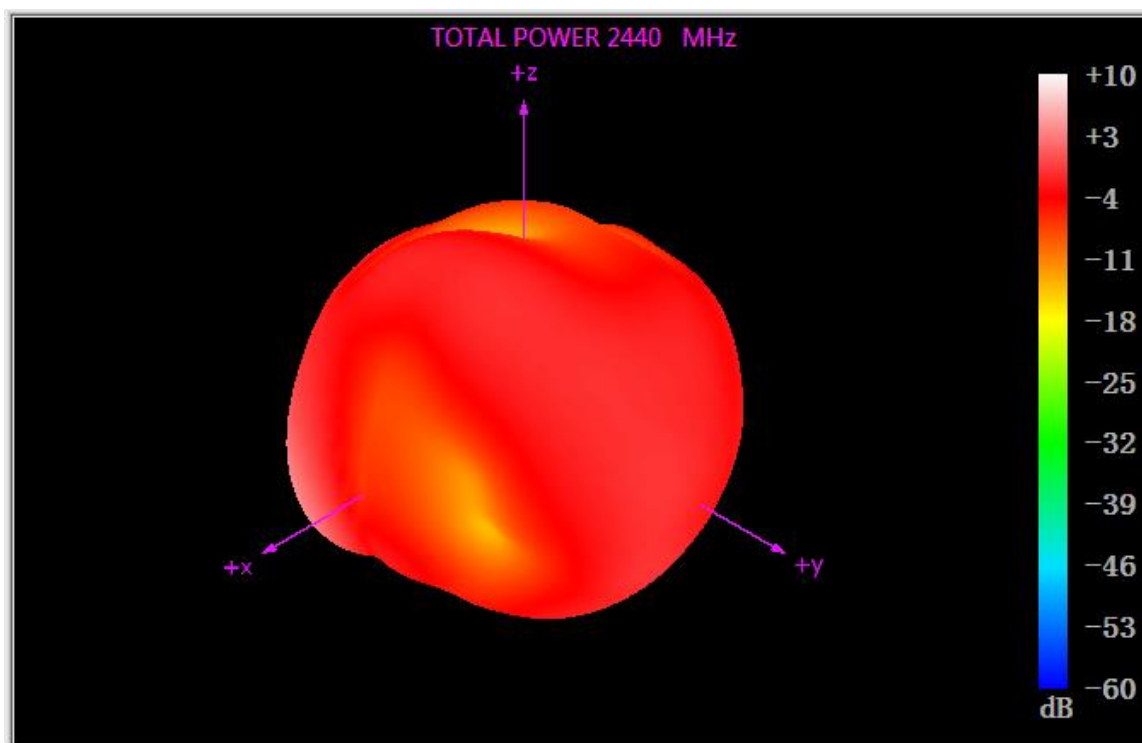


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## 2.3.2. No-source test data

Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400 MHz	3.98	54.63
2410 MHz	4.26	57.15
2420 MHz	4.27	56.86
2430 MHz	4.19	55.5
2440 MHz	4.07	54.17
2450 MHz	3.89	53.67
2460 MHz	3.55	52.52
2470 MHz	3.29	52.04
2480 MHz	3.17	52.36
2490 MHz	3.26	52.09
2500 MHz	3.39	53.19

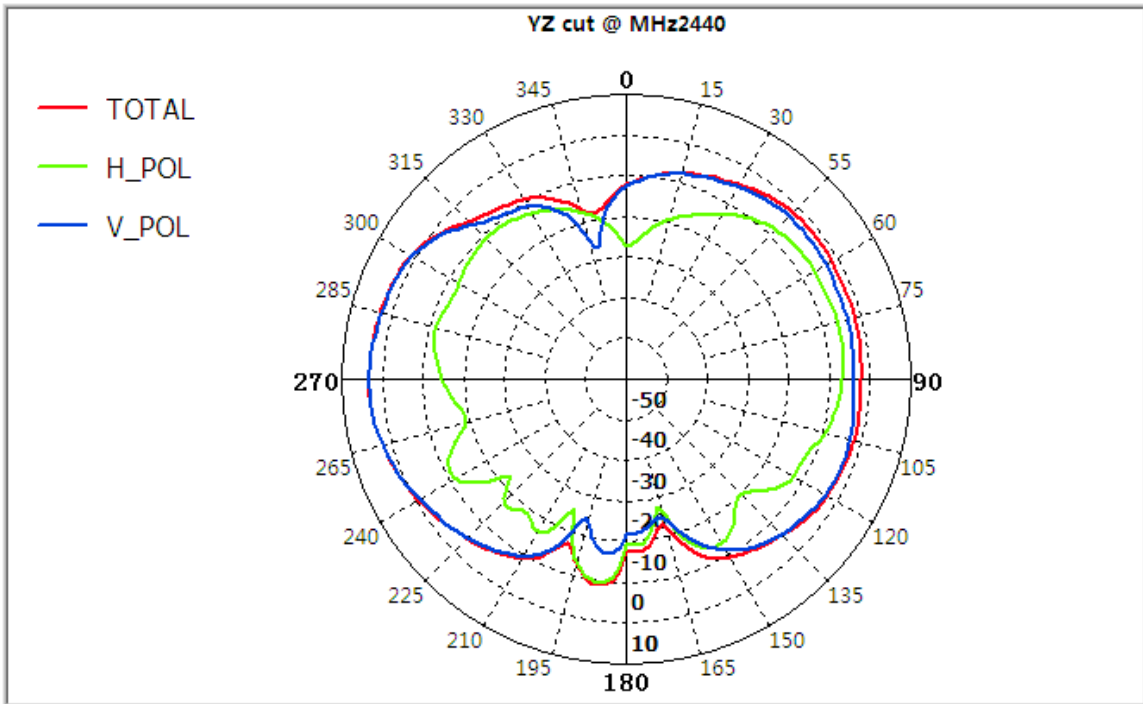
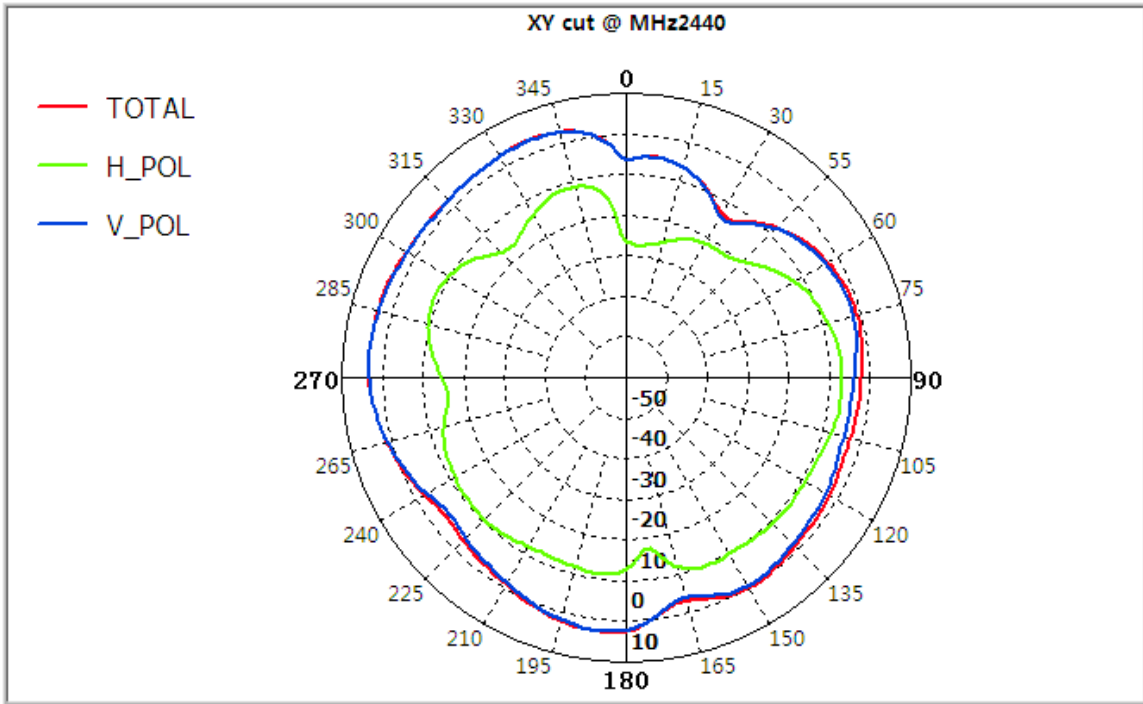
## 2.3.3. 3D Radiation Drawing



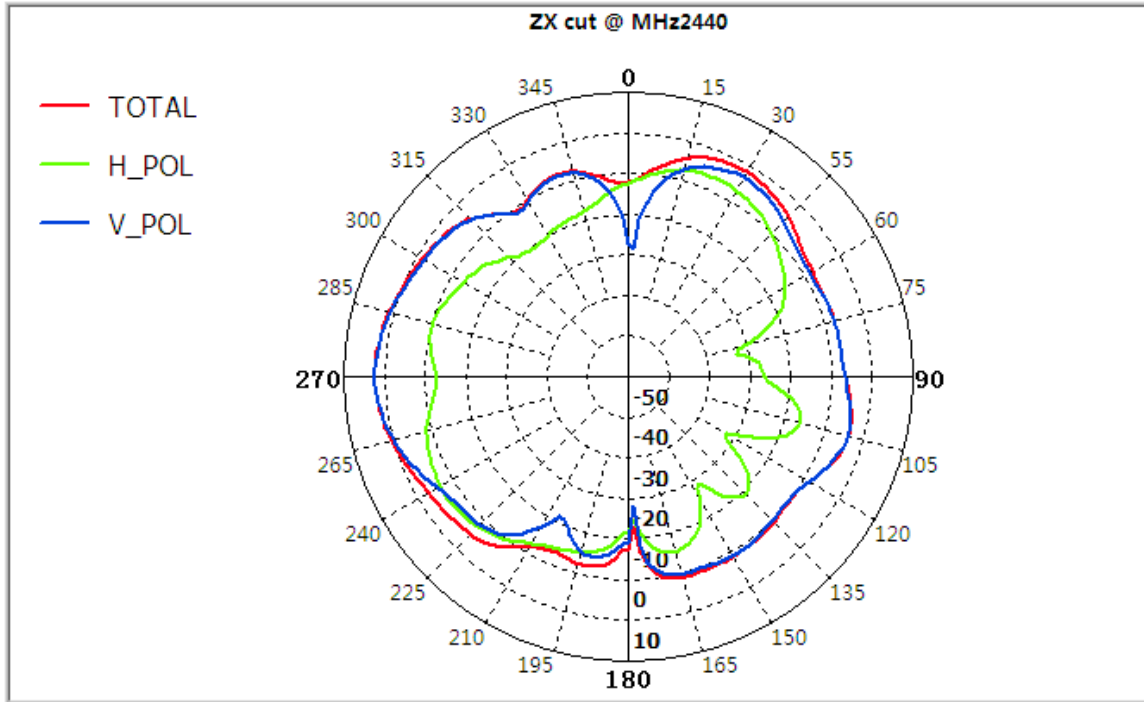


# ANTENNA SPECIFICATION

## 2.3.4. directional drawing of horizontal plane



# ANTENNA SPECIFICATION



## 3. Notes

1. When installing, be careful not to be too close to the metal part to avoid affecting the antenna performance.

2. This antenna is only suitable for this model, and the position of the antenna cannot be changed at will. If it is used on other machines, the effect will become worse, which has nothing to do with our company.

## 4. Reliability test

project	Test methods and conditions	Specifications and requirements
Storage environment	Test the temperature, humidity and air pressure without specifying as follows: 1. The temperature is -30°C~+80°C 2. The relative humidity is 45%-85% 3, the air pressure is 86Kpa-106Kpa.	There is no obvious change in appearance All electrical parameters are consistent with those before the test.
Salt spray test	Saline concentration is 50 10g/L (about 5%); PH6.5-7.2; The test temperature is 35 1°C; The corrosion time is 16H.	
Vibration test	The vibration frequency is 10-2000-10HZ, and the amplitude is 1.52mm, 10 times in the X, Y and Z directions respectively.	
Drop test	Fell on the board from 1M.	
Drawing force test	Test its endurance with a push-pull tester: $\geq 4N$ .	
Constant temperature and humidity test	Temperature and humidity: 40°C 2°C, 90-95% RH Duration: 4H Recovery time: 1-2H.	
gdw 800	Circulate between 70°C and -20°C for 5 times, and then under normal conditions for 1-2H.	

## 5. Product packaging specification

**Product name: Bluetooth antenna**

**Antenna form: shielded wire +FPC**

### 1、Labeling requirements

The inner label is 7CM long and 4CM wide

The outer label is 7CM long, about 5CM

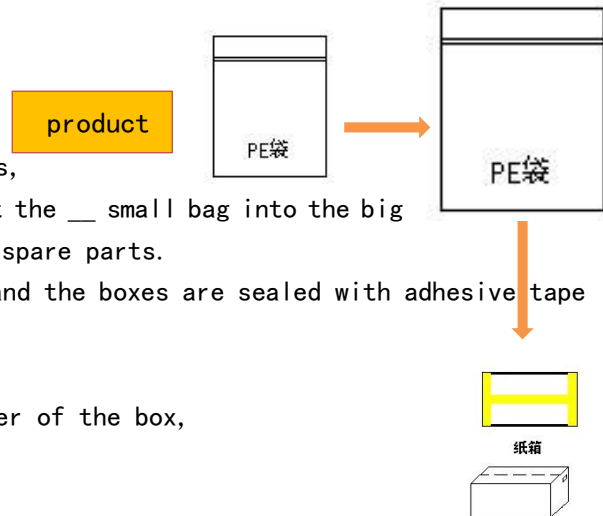
supplier	Shenzhen Feimin Technology Co., Ltd.
product name	*****
Material coding	*****
Specifications	*****
quantity	***PCS

client's name			
supplier	Shenzhen Feimin Technology Co., Ltd.		
Order number	*****		
Material coding	*****		
Specification model	*****	product name	*****
quantity	*****PCS	QC:	
spare parts	***PCS	Notes	

### 2、Packing process

Job description:

- The product \_\_PCS is packed in PE open pockets, and the inner label is affixed to each pouch; Put the \_\_ small bag into the big PE sealing tape bag, except the tail number and spare parts.
- Each box contains \_\_ large bags of products, and the boxes are sealed with adhesive tape in the shape of "I".
- Paste the outer label on the upper right corner of the box, and there must be no missing or wrong filling.



### 3、Precautions

When packing the box, please pay attention to lay the antenna flat and avoid serious shaking after sealing. If the whole box is not filled, it needs to be filled with foam to avoid transportation Circumstances that caused product defects in the process.