



ShenZhen XinErSheng Technology Co.,Ltd

# SPECIFICATION FOR APPROVAL

Customer name: \_\_\_\_\_

Product name: 2.4G PCB antenna 0.81 black line L=45MM with double clip  
and adhesive backing  
\_\_\_\_\_

Customer Part

Number: \_\_\_\_\_

Manufacturers of

Material: XESANT12B13813  
\_\_\_\_\_

Deliver quantity: 5PCS  
\_\_\_\_\_

| Mark | Check | Examine and<br>approve | Datelanded     |
|------|-------|------------------------|----------------|
| Biao | Lisen | Amy                    | 2025.02.1<br>2 |

That Customers:

| Acknowledge | Check | Examine and<br>approve | Datelanded |
|-------------|-------|------------------------|------------|
|             |       |                        |            |

Admit that situation: ☒new product ☐ product shanges

Admit that project: ☐acknowledgement ☐soecimen 10PCS

Admit that conclusion: ☐reception ☐refuse

Company address: Floor 3, Building D, No. 96 Lingxia Road, Fuyong Fenghuang  
Fourth Industrial Zone, Baoan District, Shenzhen

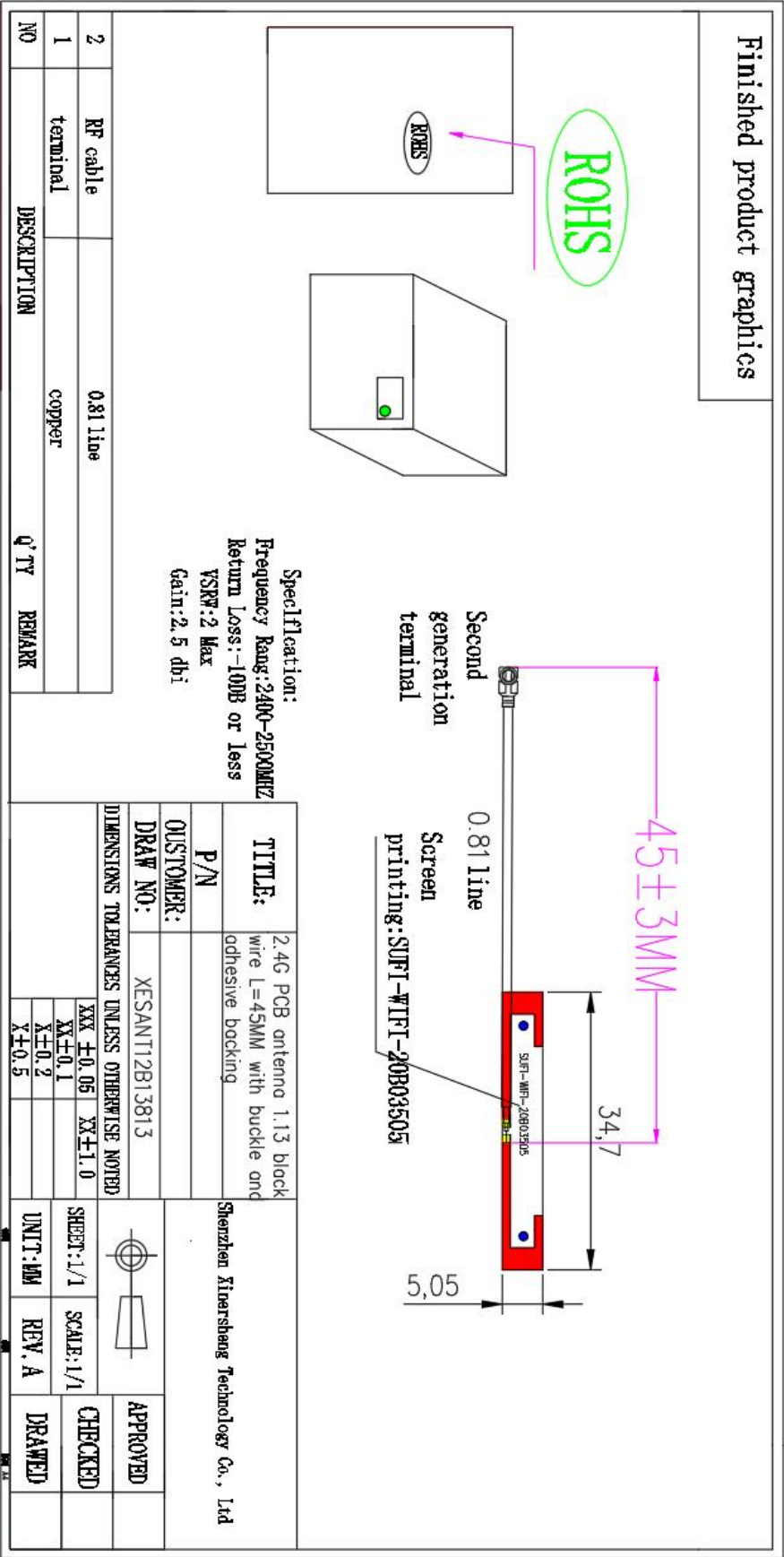
Phone number: 0755-33881455

Fax NO.: 0755-33233276

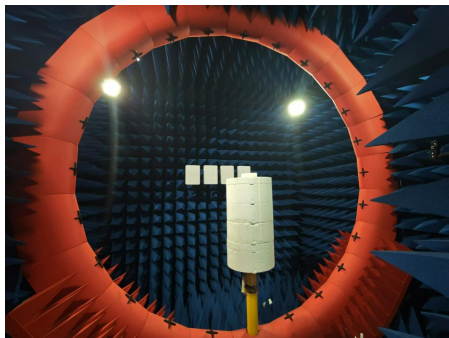
## The main technical parameters of the product

| Main technical specifications |                                             |
|-------------------------------|---------------------------------------------|
| Frequency Range (MHZ)         | 2400-2500                                   |
| Impedance ( $\Omega$ )        | $50 \pm 10$                                 |
| Gain (dBi)                    | 2.68                                        |
| ReTurnLoss (dB)               | $\leq -10$                                  |
| VSWR                          | $\leq 2$                                    |
| Admitted Power                | 1W                                          |
| Polarization                  | Linear Vertical                             |
| Connector Type                | IPEX                                        |
| Physical Properties           |                                             |
| Antenna Base                  | PCB                                         |
| Operating Temp                | $-20^{\circ}\text{C} - +60^{\circ}\text{C}$ |
| Storage Temp                  | $-20^{\circ}\text{C} - +70^{\circ}\text{C}$ |

Finished product drawings



## Test equipment



OTA Test System

Brand: Feitu

Model: 5071C

Frequency range: 400MHz - 8.5GHz

Brand: Agilent

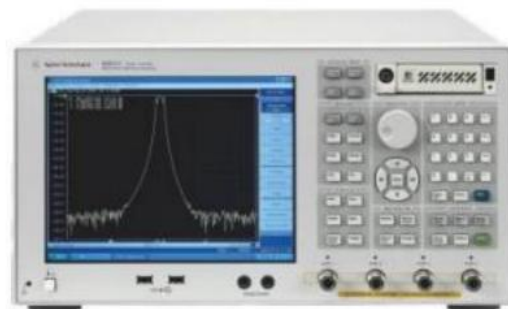
Size of the anechoic chamber: 4m \* 4m \* 4m

Frequency range: 9KHz - 8.5GHz

Number of probes: 24 (23 dual-polarized probes and 1 communication probe)

Functions: Antenna comprehensive passive tests for 2G/3G/4G, BT, WIFI, etc.

Functions: Passive and active tests; Tests for TRP and TIS of G network, C network, 2G/3G/4G, WIFI, BT and other standards.



Brand: Agilent

Model: 8960

Frequency range: 292MHz - 2700GHz

Function: It can meet the active tests for 2G and 3G.



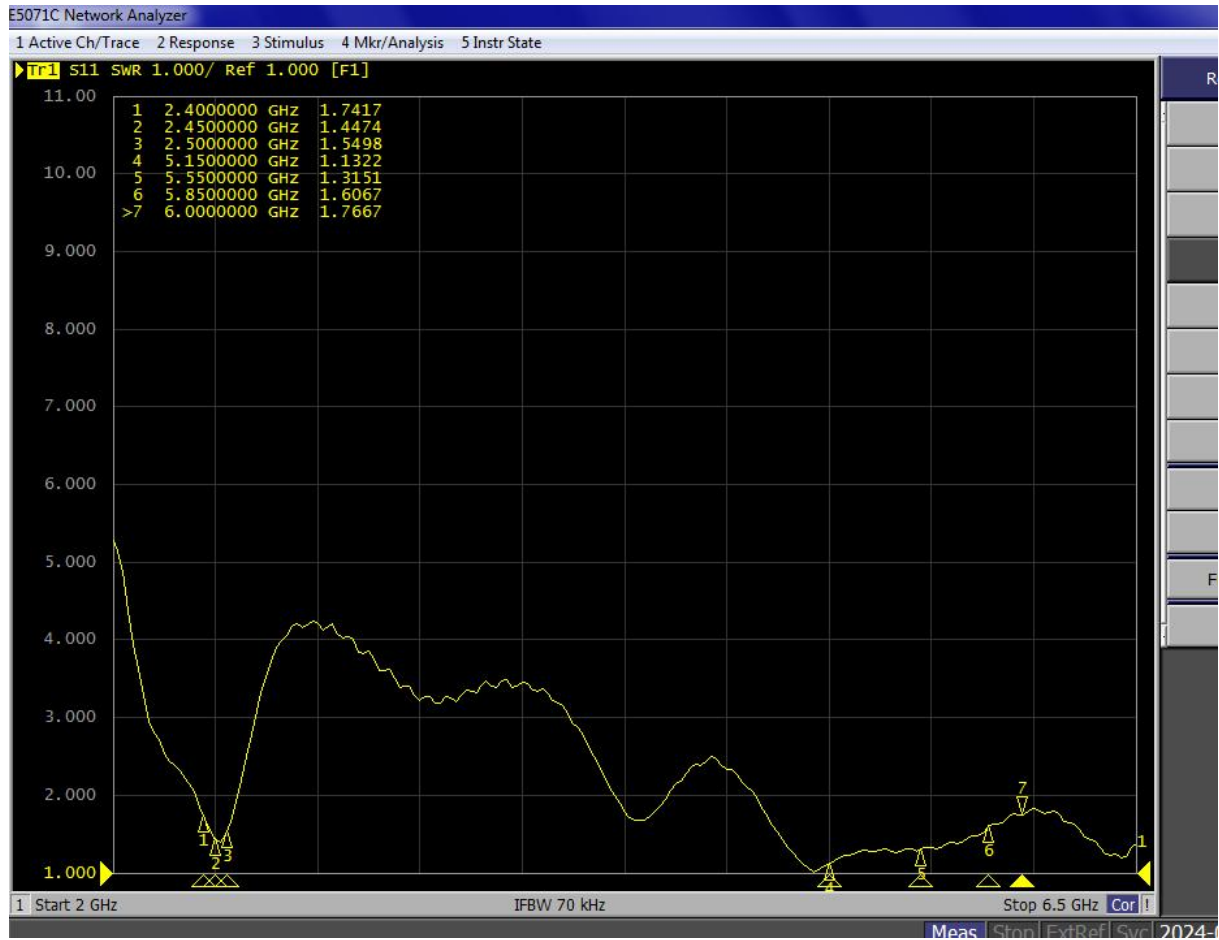
Brand: Rohde & Schwarz

Model: CMW500

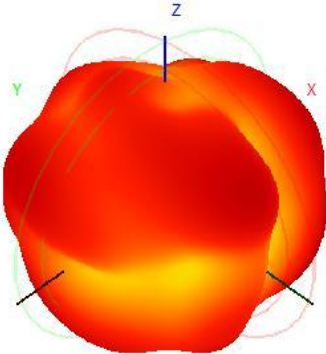
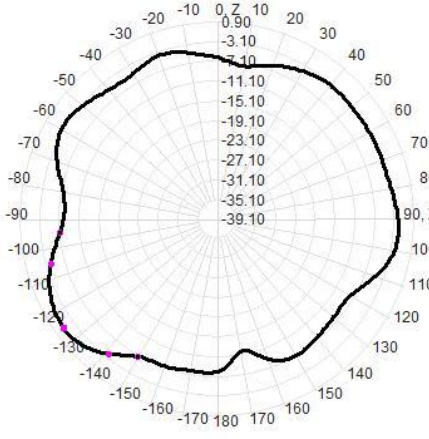
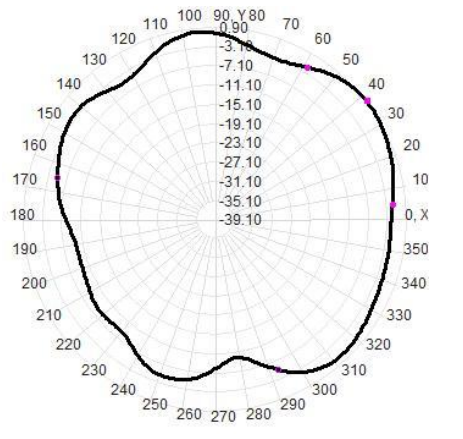
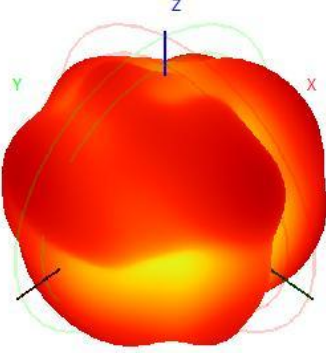
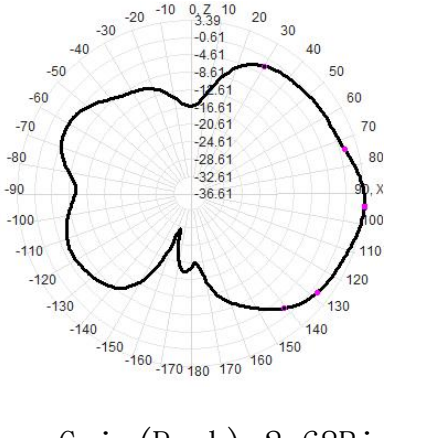
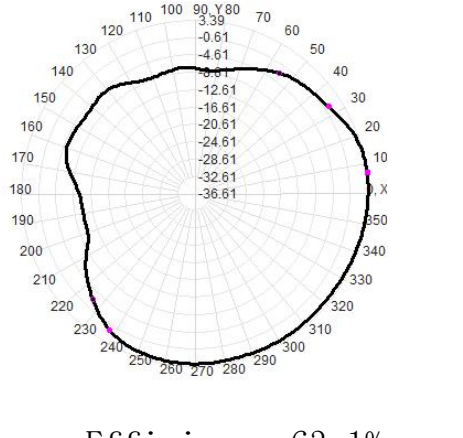
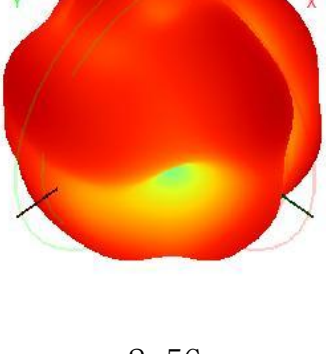
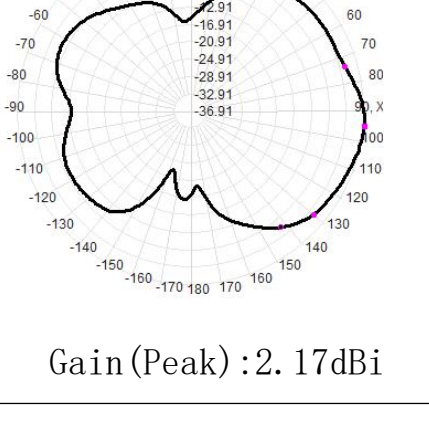
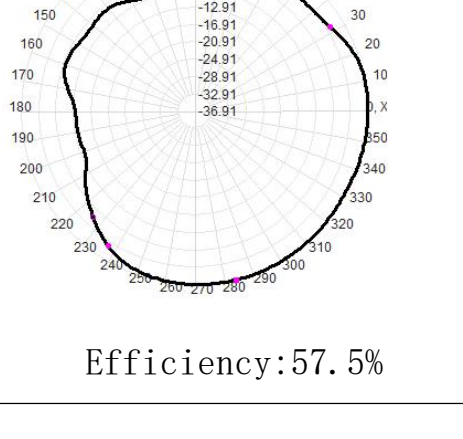
Frequency range: 70KHz - 6GHz

Function: Comprehensive active tests for antennas of 2G, 3G, 4G, BT, WIFI, NB-IoT and other standards

## VSRW:



## 2D、3DRaditation Pattern

|                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |
| <p>2.4G</p>                                                                         | <p>Gain(Peak):2.21dBi</p>                                                            | <p>Efficiency:60.5%</p>                                                               |
|   |   |   |
| <p>2.45G</p>                                                                        | <p>Gain(Peak):2.68dBi</p>                                                            | <p>Efficiency:63.1%</p>                                                               |
|  |  |  |
| <p>2.5G</p>                                                                         | <p>Gain(Peak):2.17dBi</p>                                                            | <p>Efficiency:57.5%</p>                                                               |

## Product Packaging Specification

Product Name/Specification

### 一、Label Requirements

| *****                                  |       |
|----------------------------------------|-------|
| Purchase Order Number                  | ***** |
| Material Coding                        | ***** |
| Name and Specification<br>of the Goods | ***** |
| Quantity/Unit                          | ***** |
| Remarks                                | ***** |

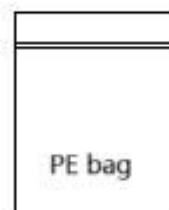
| *****                                  |       |
|----------------------------------------|-------|
| Purchase Order Number                  | ***** |
| Material Coding                        | ***** |
| Name and Specification<br>of the Goods | ***** |
| Quantity/Unit                          | ***** |
| Remarks                                | ***** |

### 二、Packaging Requirements

Operation Instructions:

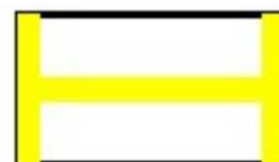
#### 1、Inner Packaging:

100 pieces of products are packed in one small bag.



#### 2、Outer Packaging

Determine the quantity per carton according to the actual quantity.



corrugated box

Matters Needing Attention:

1、Whether it is necessary to add partitions and pearl cotton.

2、Affixation of labels, such as ROHS labels, etc.

