



Sheen XinErSheng Technology Co.,Ltd

## SPECIFICATION FOR APPROVAL

Customer name: BeiNaiTe

Product name: 2.4G copper tube antenna

Customer Part  
Number:

Manufacturers of  
Material: SFANTR316001

Deliver quantity: 5PCS

| Mark | Check | Examine and<br>approve | Datelanded |
|------|-------|------------------------|------------|
| Biao | Lisen | Amy                    | 2022.09.05 |

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

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## Main technical parameters of the product

| Main technical specifications |                 |
|-------------------------------|-----------------|
| Frequency Range(MHZ)          | 2400-2500       |
| Gain (dBi)                    | 1.85 dBi        |
| Impedance( $\Omega$ )         | $50 \pm 10$     |
| ReTurnLoss(dB)                | $\leq -10$      |
| VSWR                          | $\leq 2$        |
| Admitted Power                | 1W              |
| Polarization                  | Linear Vertical |
| Connector Type                | Weld            |
| Physical Properties           |                 |
| Antenna Base                  | Copper          |
| Operating Temp                | -20℃-+60℃       |
| Storage Temp                  | -20℃-+70℃       |

### List of raw materials:

| Serial number | Name     | Texture  | Quantity | Unit | Remark |
|---------------|----------|----------|----------|------|--------|
| 1             | Wire rod | 316 wire | 1        | PCS  |        |

## Product drawing

Product drawing

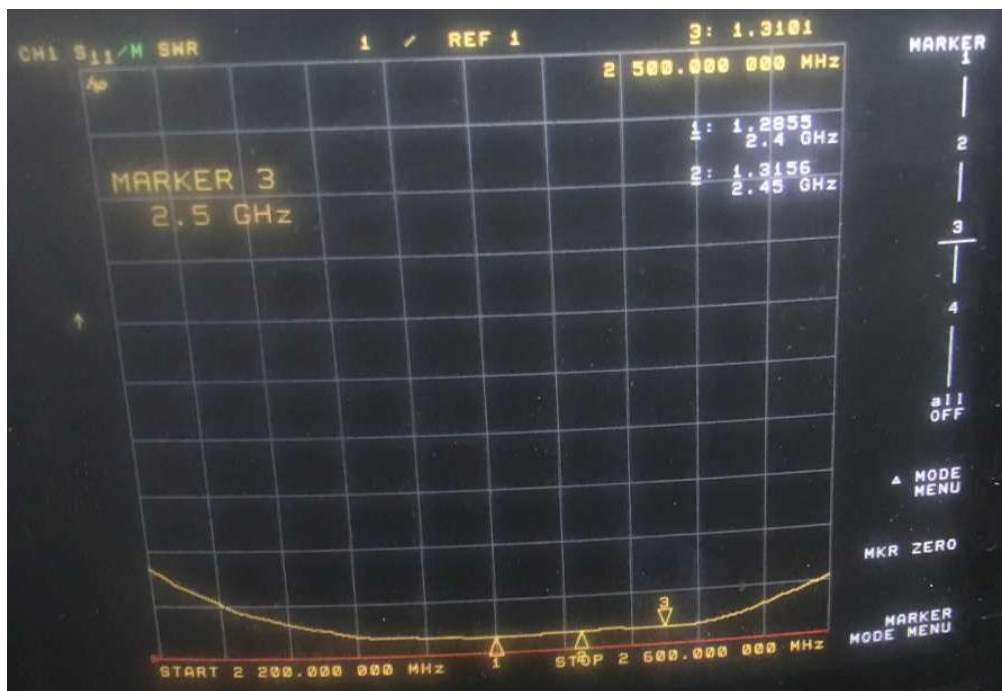
Specification:  
Frequency Rang:2400-2500MHZ  
Return Loss:-10DB or less  
VSWR\*1.92 Max  
Gain:2.0 dbi

|    |             |          |        |
|----|-------------|----------|--------|
| 6  |             |          |        |
| 5  |             |          |        |
| 4  |             |          |        |
| 3  |             |          |        |
| 2  |             | 1        |        |
| 1  | Cable       | 316 wire | 1      |
| NO | DESCRIPTION | QTY      | REMARK |

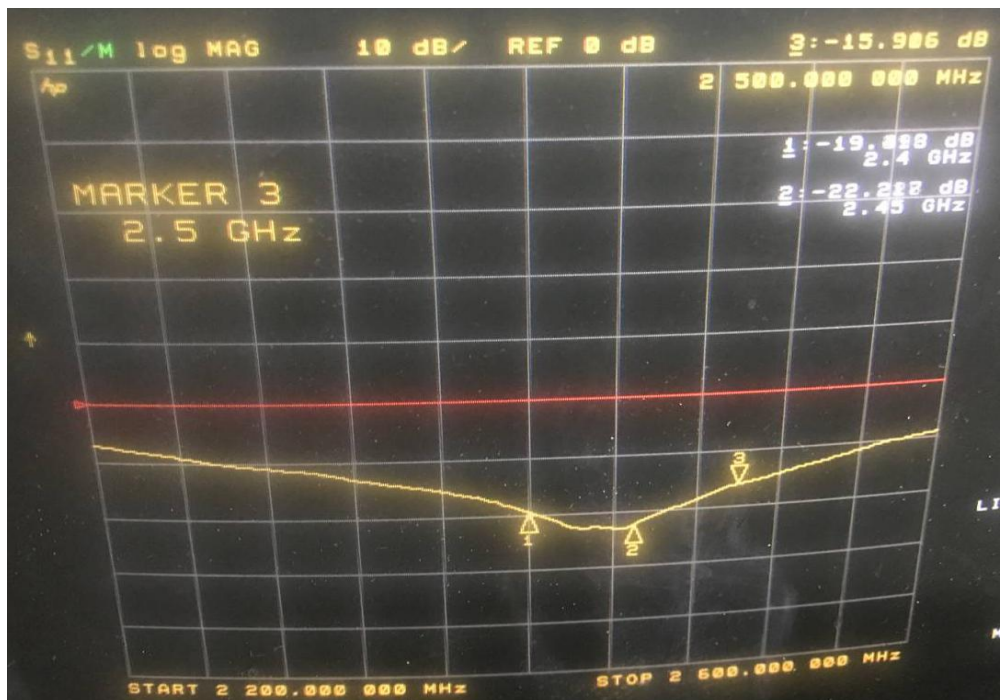
|                                              |          |                          |  |                                        |  |           |  |          |  |
|----------------------------------------------|----------|--------------------------|--|----------------------------------------|--|-----------|--|----------|--|
| TITLE:                                       |          | 2.4G copper tube antenna |  | ShenZhen XinErSheng Technology Co.,Ltd |  |           |  |          |  |
| P/N                                          |          |                          |  |                                        |  |           |  |          |  |
| CUSTOMER:                                    |          |                          |  |                                        |  |           |  |          |  |
| DRAW NO.:                                    |          | SPANTR316001             |  |                                        |  |           |  |          |  |
| DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED |          |                          |  |                                        |  |           |  |          |  |
| TOLERANCE                                    |          |                          |  |                                        |  |           |  |          |  |
|                                              | XX ±0.05 | XX ±1.0                  |  | SHEET:1/1                              |  | SCALE:1/1 |  | APPROVED |  |
|                                              | XX ±0.1  |                          |  | UNIT:MM                                |  | REV. A    |  | CHECKED  |  |
|                                              | XX ±0.2  |                          |  |                                        |  |           |  | DRAWED   |  |
|                                              | XX ±0.5  |                          |  |                                        |  |           |  |          |  |

## Network analyzer test report:

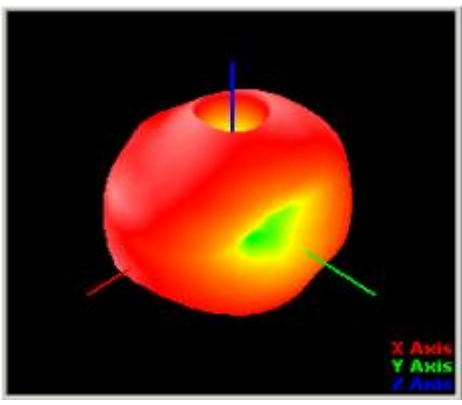
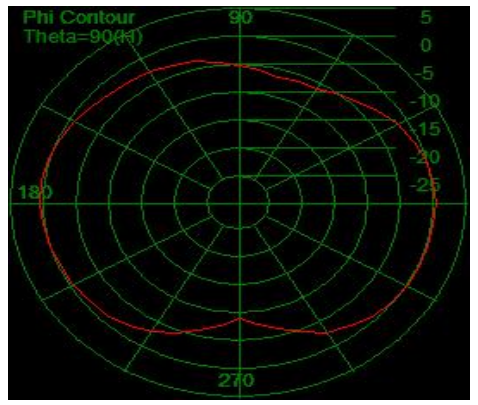
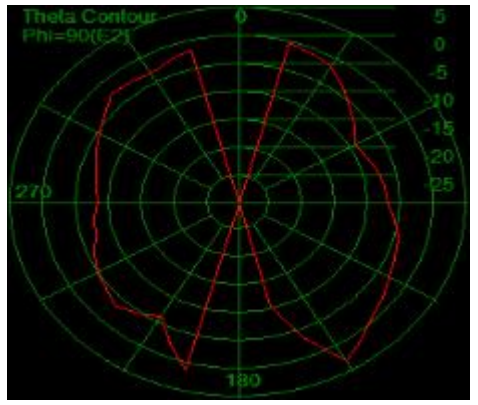
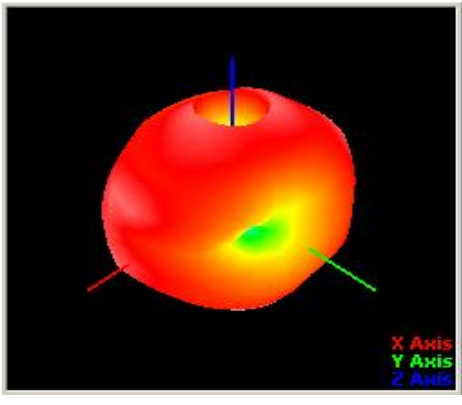
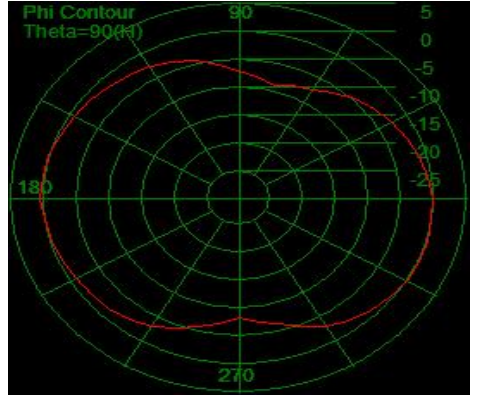
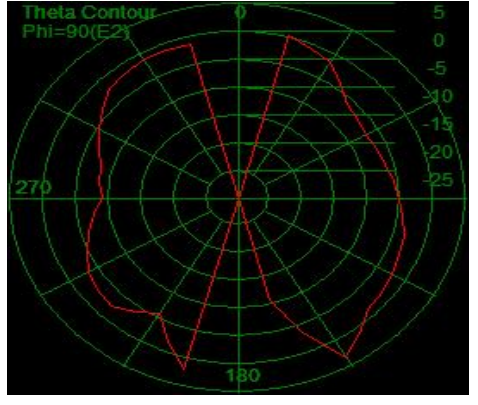
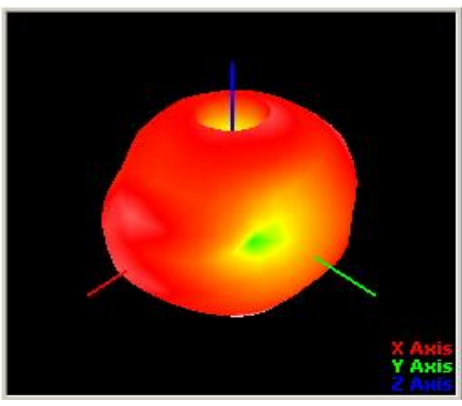
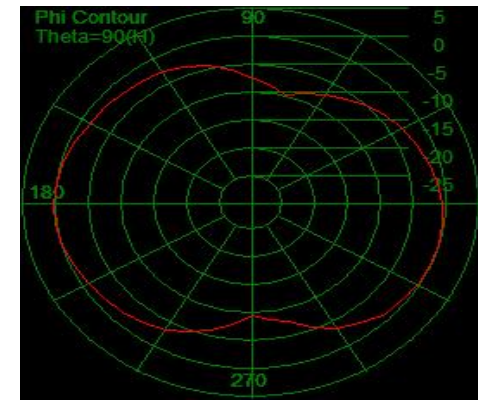
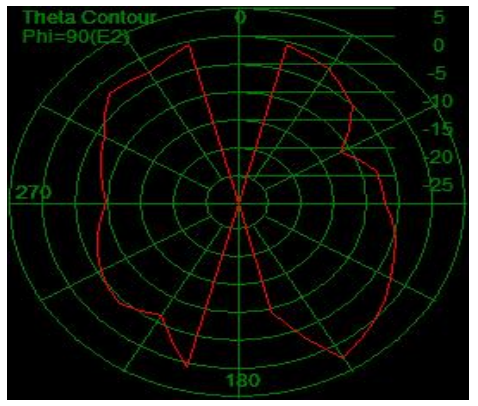
### 1. SWR:



### 2. return loss



## 2D、3DRaditation Pattern

|                                                                                    |                                                                                     |                                                                                       |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |
| <p>2.4G</p>                                                                        | <p>Gain(Peak):1.76dBi</p>                                                           | <p>Efficiency:51.2%</p>                                                               |
|   |   |   |
| <p>2.45G</p>                                                                       | <p>Gain(Peak):1.85dBi</p>                                                           | <p>Efficiency:53.1%</p>                                                               |
|  |  |  |
| <p>2.5G</p>                                                                        | <p>Gain(Peak):1.81dBi</p>                                                           | <p>Efficiency:52.7%</p>                                                               |