

# **Shenzhen Jiexuntong Wireless Technology Co. LTD**

## **Antenna acknowledgment**

**Customer name: Baoneng Daktron**

**Project model: 902M**

**Antenna frequency: 908-920MHz**

**Manufacturer: Shenzhen Jiexuntong Wireless Technology Co. LTD**

**Manufacturer Address: 409, Building A, No. 30, Aviation Road,**

**Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen Date**

**of issue: 2023-03-31**

### **Manufacturer acknowledgment column:**

| <b>Project<br/>preparation</b> | <b>RF</b> | <b>structure</b> | <b>approve</b> | <b>Date</b> |
|--------------------------------|-----------|------------------|----------------|-------------|
|                                |           |                  |                |             |

### **Customer acknowledgement column:**

| <b>confirm</b> | <b>audit</b> | <b>approve</b> | <b>Date</b> |
|----------------|--------------|----------------|-------------|
|                |              |                |             |

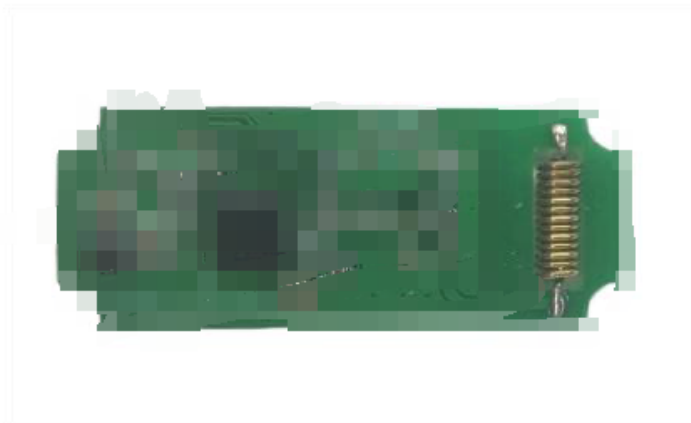


## 一、Antenna picture



## 二、Antenna assembly and environmental treatment

### 2. 1. Antenna assembly



### 2. 2. Environmental treatment

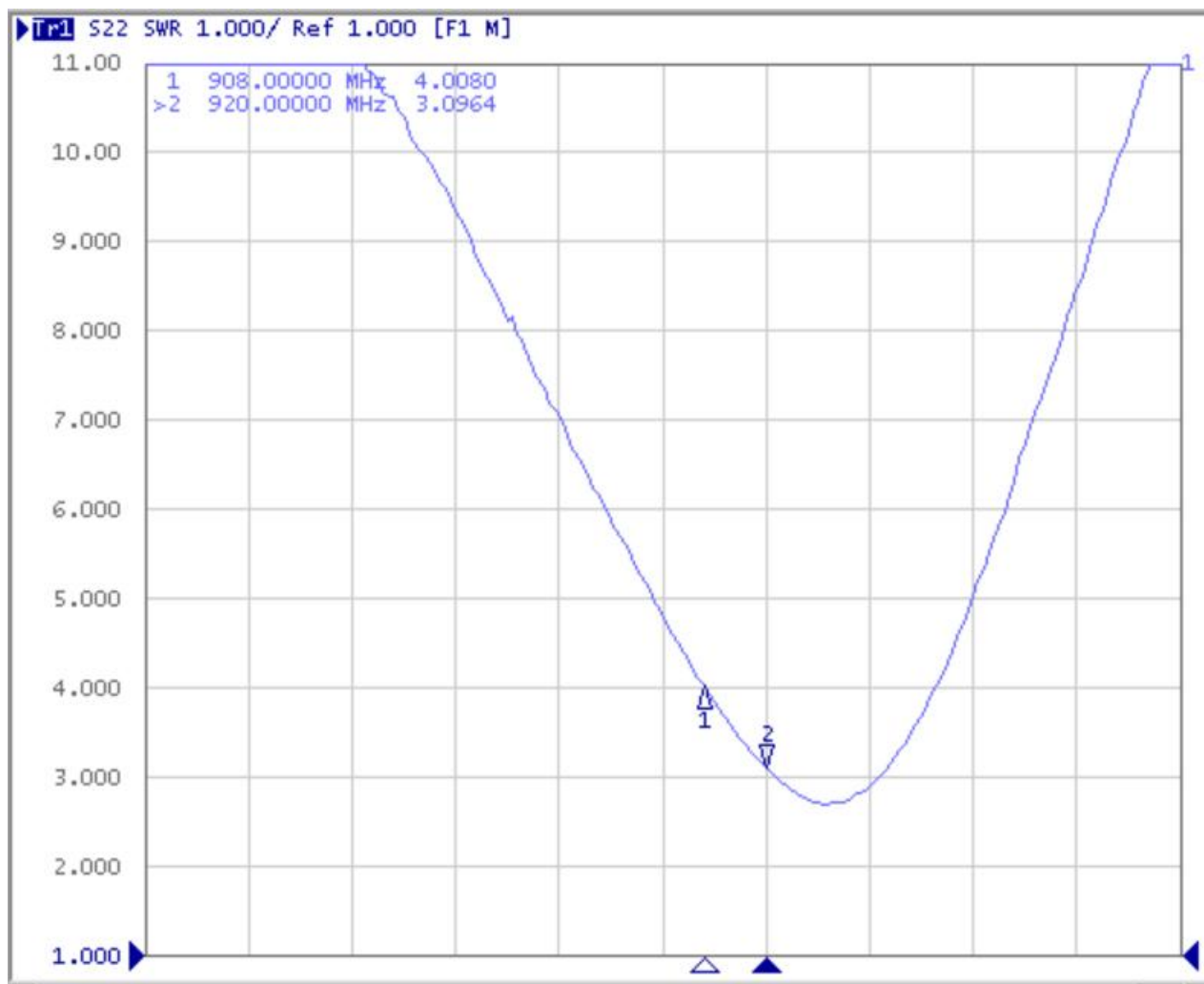
(No environmental treatment)

### 2. 3. Matching

(No modifications were made to the original match)

### 三、Electrical performance report

#### 3. 1. VSWR



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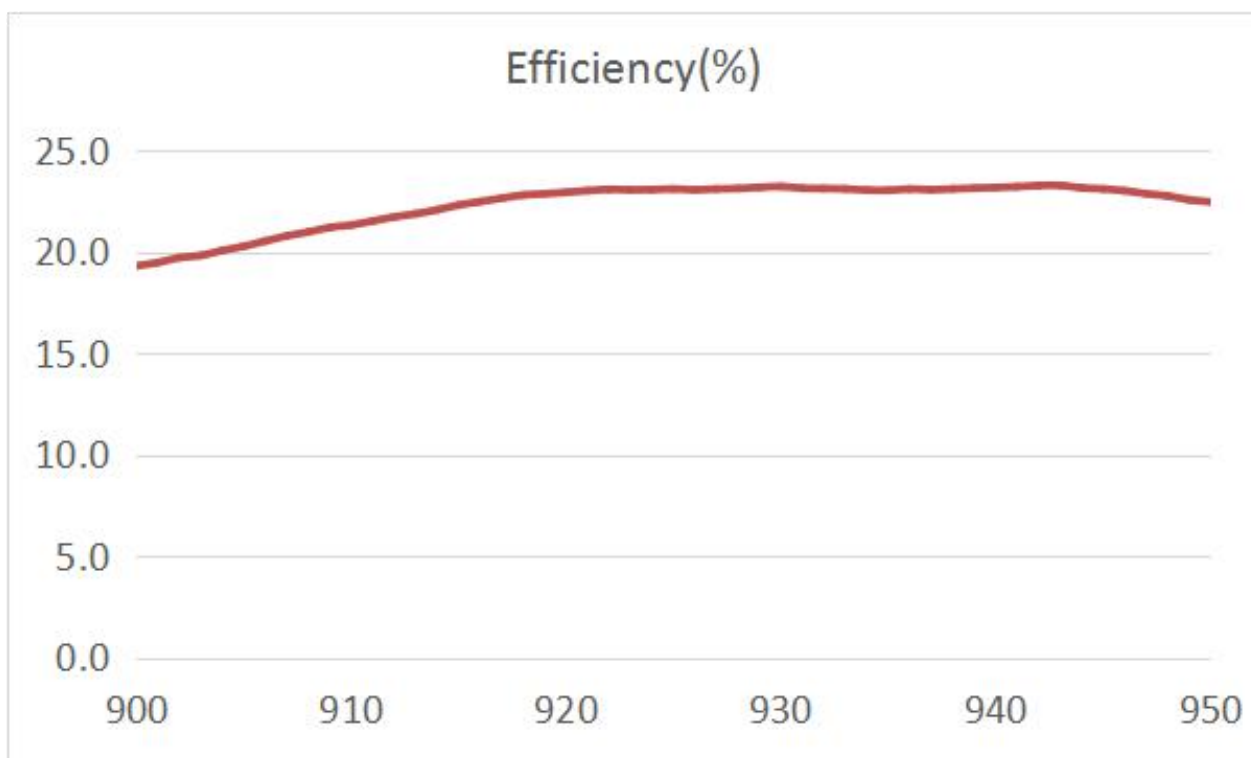


### 3. 2. Efficiency/ gain data

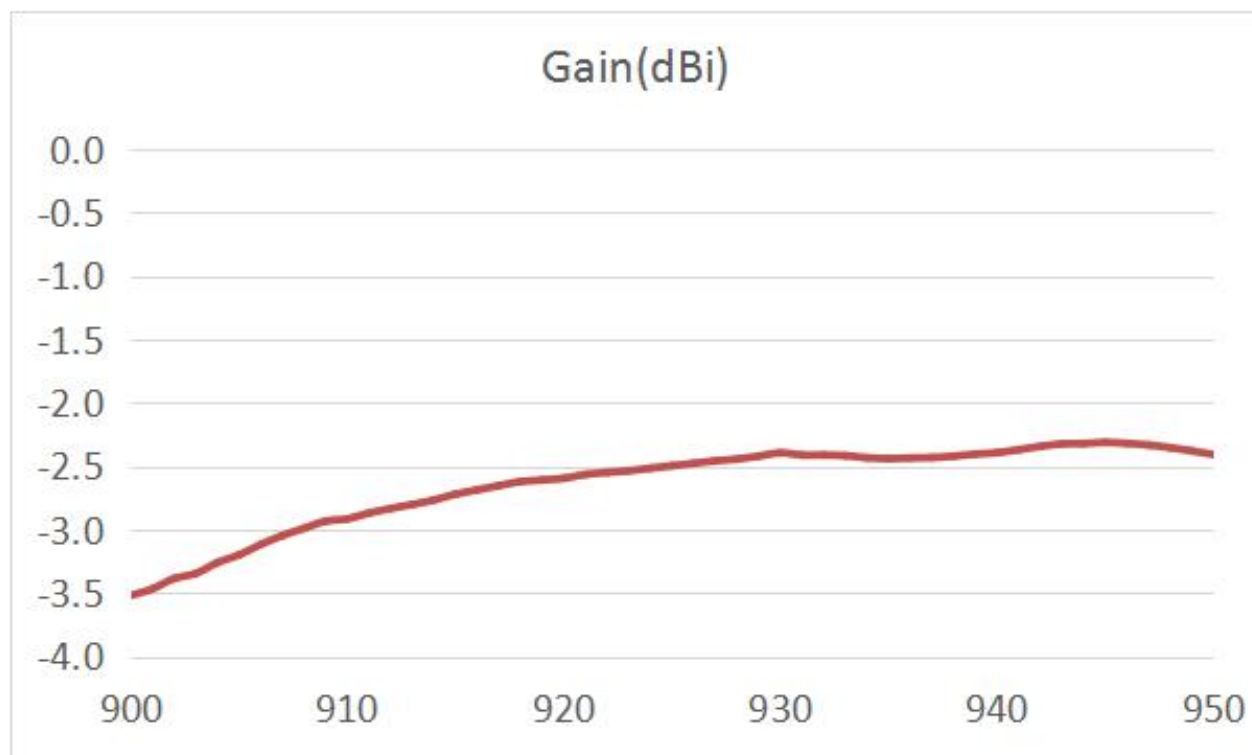
| Freq(MHz) | Gain(dBi) | Efficiency(dB) | Efficiency(%) |
|-----------|-----------|----------------|---------------|
| 850       | -5.86     | -9.18          | 12.09         |
| 852       | -5.78     | -9.10          | 12.30         |
| 854       | -5.71     | -9.05          | 12.45         |
| 856       | -5.66     | -9.01          | 12.57         |
| 858       | -5.57     | -8.95          | 12.74         |
| 860       | -5.49     | -8.86          | 12.99         |
| 862       | -5.37     | -8.75          | 13.34         |
| 864       | -5.25     | -8.62          | 13.73         |
| 866       | -5.14     | -8.52          | 14.05         |
| 868       | -5.04     | -8.42          | 14.38         |
| 870       | -4.94     | -8.34          | 14.67         |
| 872       | -4.84     | -8.25          | 14.96         |
| 874       | -4.71     | -8.13          | 15.39         |
| 876       | -4.59     | -8.03          | 15.73         |
| 878       | -4.45     | -7.90          | 16.20         |
| 880       | -4.35     | -7.81          | 16.54         |
| 882       | -4.26     | -7.73          | 16.86         |
| 884       | -4.18     | -7.66          | 17.12         |
| 886       | -4.10     | -7.59          | 17.42         |
| 888       | -4.02     | -7.52          | 17.71         |
| 890       | -3.90     | -7.41          | 18.16         |
| 892       | -3.78     | -7.29          | 18.67         |
| 894       | -3.66     | -7.17          | 19.19         |
| 896       | -3.61     | -7.10          | 19.52         |
| 898       | -3.57     | -7.04          | 19.76         |
| 900       | -3.56     | -7.02          | 19.88         |
| 902       | -3.50     | -6.94          | 20.24         |
| 904       | -3.40     | -6.87          | 20.56         |
| 906       | -3.27     | -6.78          | 20.99         |
| 908       | -3.15     | -6.70          | 21.40         |
| 910       | -3.08     | -6.63          | 21.71         |
| 912       | -3.01     | -6.56          | 22.09         |
| 914       | -2.95     | -6.50          | 22.40         |
| 916       | -2.88     | -6.43          | 22.77         |
| 918       | -2.82     | -6.37          | 23.08         |
| 920       | -2.80     | -6.34          | 23.20         |
| 922       | -2.76     | -6.32          | 23.35         |
| 924       | -2.73     | -6.32          | 23.34         |
| 926       | -2.70     | -6.32          | 23.35         |
| 928       | -2.66     | -6.31          | 23.41         |
| 930       | -2.62     | -6.29          | 23.51         |

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### 3. 3. Efficiency line graph:

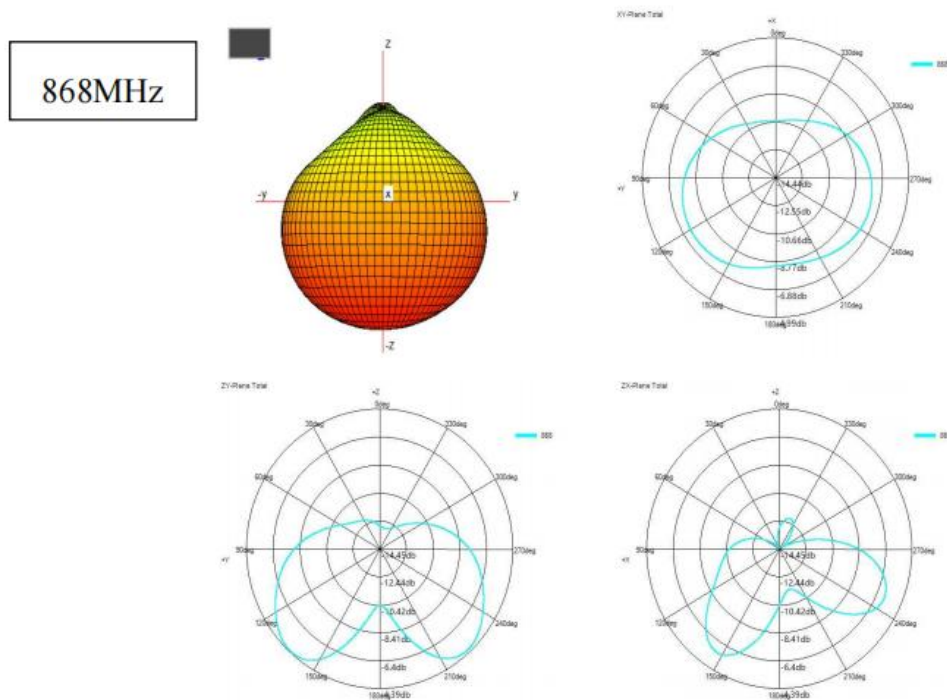
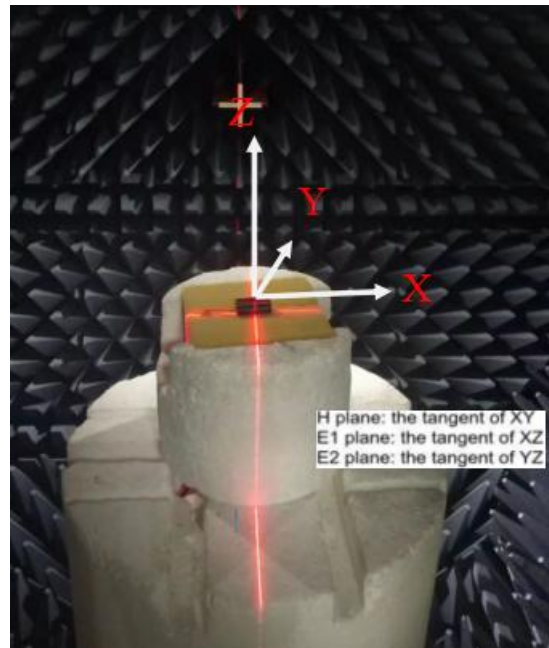


### 3. 4. Gain line graph:



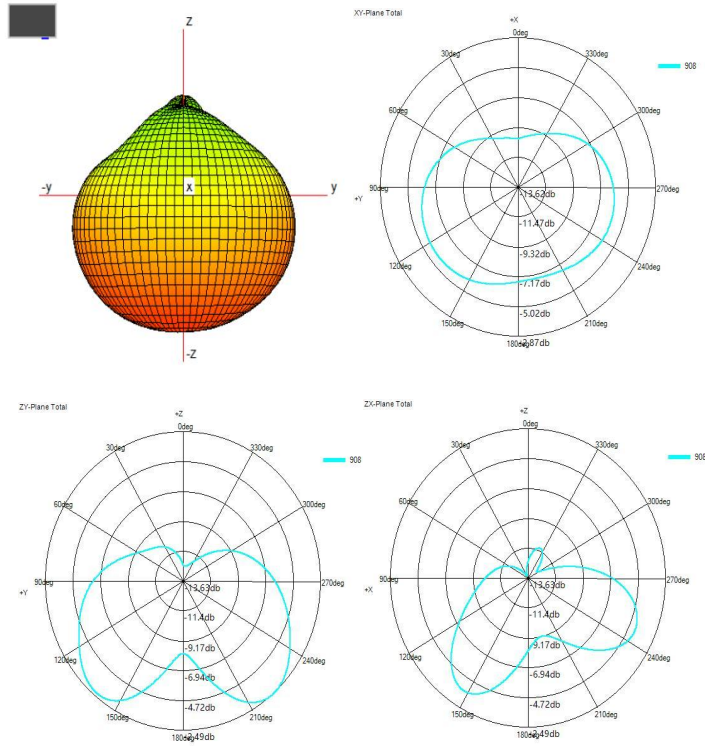
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### 3. 5. Field pattern diagram:

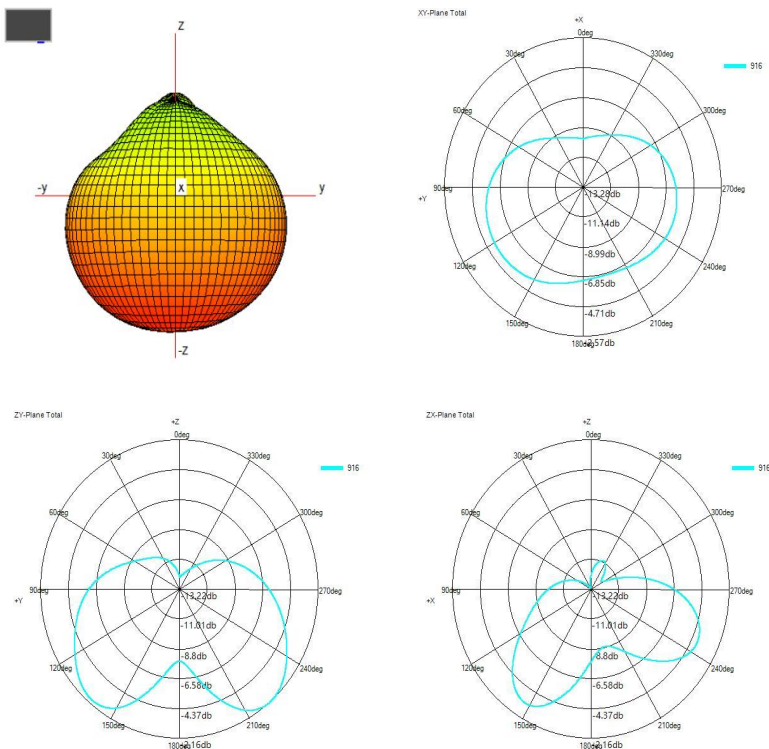


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908MHz

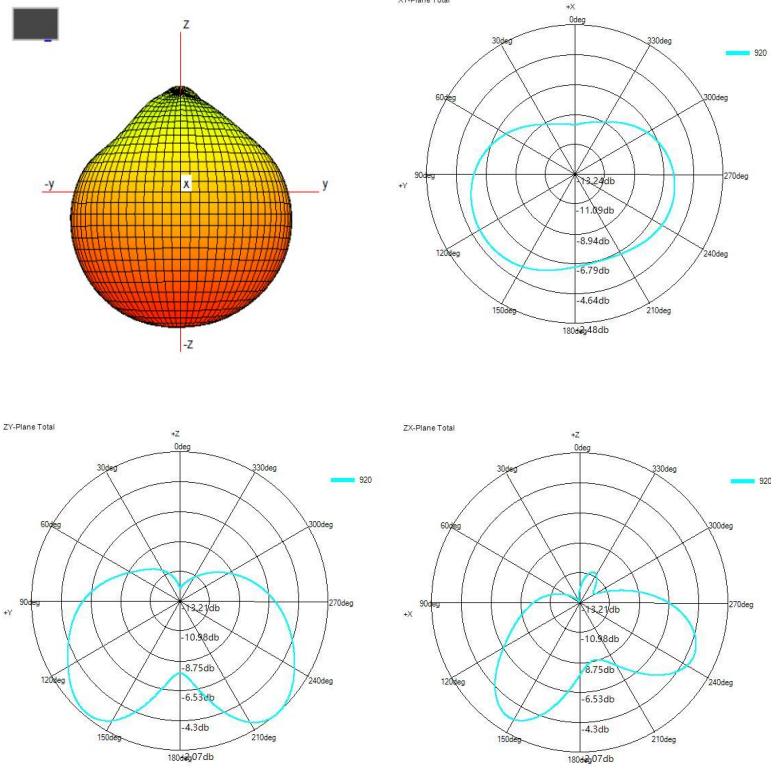


916MHz



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920MHz



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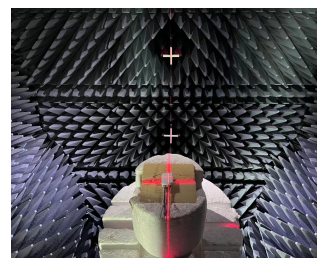
## 四、Reliability test report

### 4. 1. Salt spray test report

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                         |                                                                                                                            |            |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|----------------------------------------------------------------------------------------------------------------------------|------------|
| Guest house                | Baoneng<br>Daktron                                                                                                                                                                                                                                                                                                                                                                                                  | Part name | <b>902M</b>             | Date of<br>completion                                                                                                      | 20230327   |
| Test item                  | Test requirement                                                                                                                                                                                                                                                                                                                                                                                                    |           |                         | Measured<br>result                                                                                                         | evaluation |
| Neutral salt<br>spray test | Experimental process: Neutral salt spray test was carried out on the hardware on the antenna. In the closed environment of $35\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ , humidity > 85%, PH value within the range of 6.5-7.2, $5\% \pm 1\%$ NaCl solution was used. After continuous 24h brine spray, the surface of the product should be free from corrosion, discoloration, and coating peeling. |           |                         | After the end of the experiment, the surface of the product has no rust, no discoloration, and the coating has no peeling. | PASS       |
| Experiment: Wujiaxiong     |                                                                                                                                                                                                                                                                                                                                                                                                                     |           | Approved by: Wujiaxiong |                                                                                                                            |            |

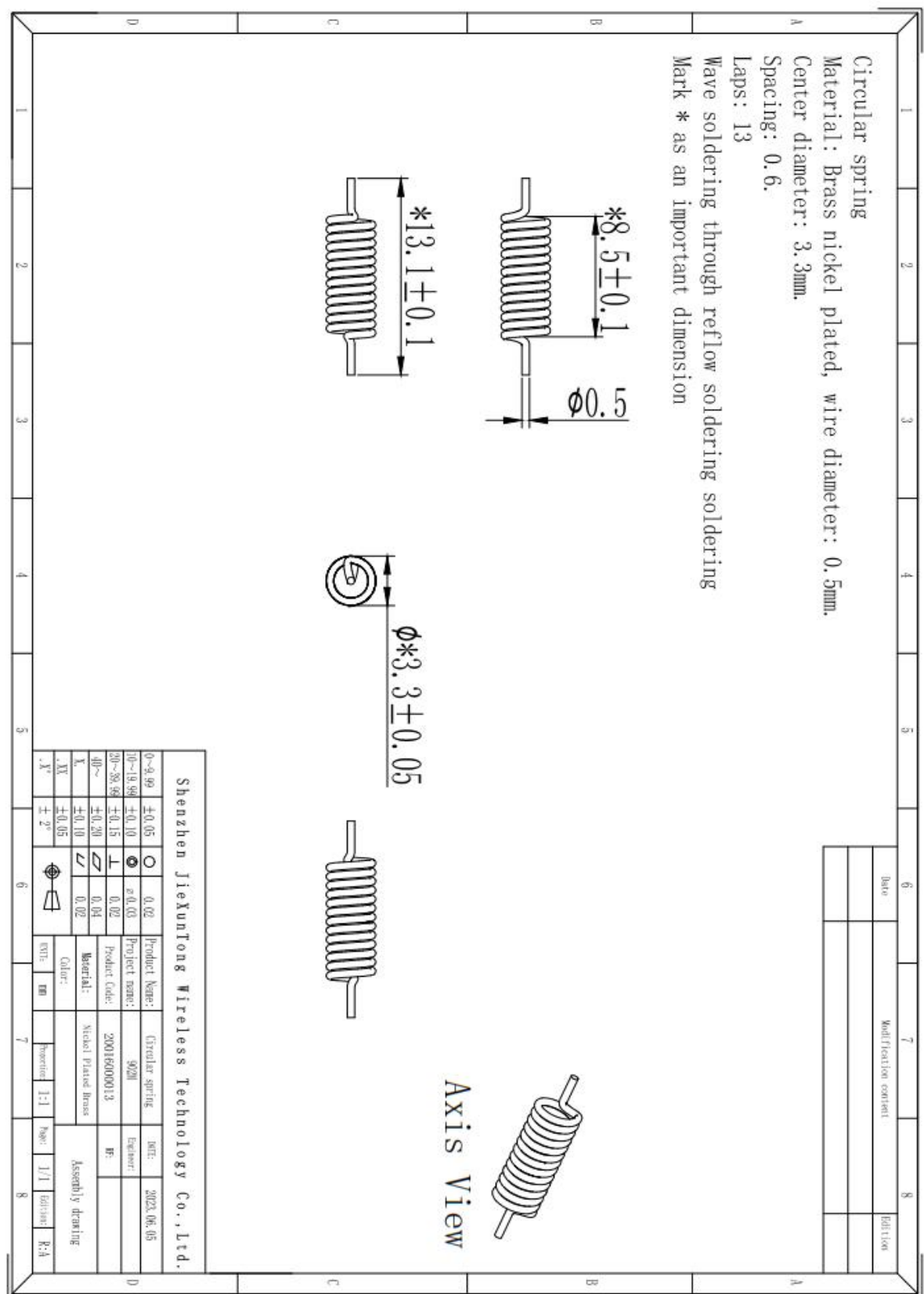


Antenna testing instrument



Darkroom test environment

五、Drawing



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