

深圳市南斗星科技有限公司



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## SPECIFICATIONS FOR APPROVAL

**Customer Name:** 智微

**Product Name:** WiFi 天线

**Product Model:** H052

**Part Number:** N12-4304-R0A

**Written By :** 李娜

**Issued Date:** 2018-04-23

### CUSTOMER

| ENGINEER R&D DEPT | BUSSINESS DEPT | APPROVED BY |
|-------------------|----------------|-------------|
|                   |                |             |

### SOUTHSTAR

| R & D DEPT | ENGINEER R&D DEPT | APPROVAL |
|------------|-------------------|----------|
|            |                   |          |



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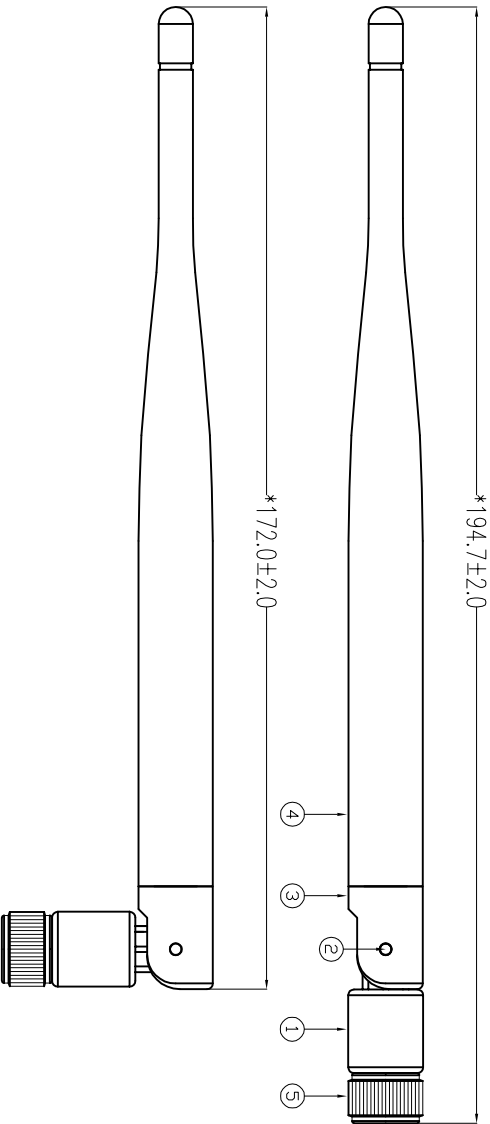
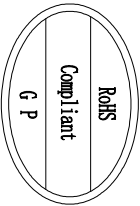
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## 基本参数(The basic parameters)

| A. Electrical Characteristics            |                                    |
|------------------------------------------|------------------------------------|
| Frequency                                | 2400MHZ~2500MHZ<br>5150MHZ~5850MHZ |
| VSWR                                     | < 3                                |
| Efficiency                               | 2.4G>60%    5G>49%                 |
| Impedance                                | 50 Ohm                             |
| Polarization                             | Linear                             |
| Gain                                     | 2.4G:5.91dBi<br>5G:2.3 dBi         |
| B. Material & Mechanical Characteristics |                                    |
| Material of Radiator                     | 外置天线                               |
| Cable Type                               |                                    |
| Connector Type                           |                                    |
| Dimension                                |                                    |
| C. Environmental                         |                                    |
| Operation Temperature                    | - 10 °C ~ + 50 °C                  |
| Storage Temperature                      | - 30 °C ~ + 85 °C                  |



备注:  
1. 标注“\*”为重点尺寸, 未标公差尺寸按照±0.20检测  
2. 未标注尺寸请依图纸。

3. 符合ROHS

|     |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
|-----|--|-------------|--|---|--|------|--|--------|--|---|--|---|--|---|--|---|--|
| 1   |  | 2           |  | 3 |  | 4    |  | 5      |  | 6 |  | 7 |  | 8 |  |   |  |
| A   |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
| B   |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
| C   |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
| D   |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
| Rev |  | Description |  |   |  | Date |  | Remark |  | 5 |  | 6 |  | 7 |  | 8 |  |
| 1   |  |             |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |
| A   |  | New drawing |  |   |  |      |  |        |  |   |  |   |  |   |  |   |  |

## 测试设备(Test Equipment & Conditions)

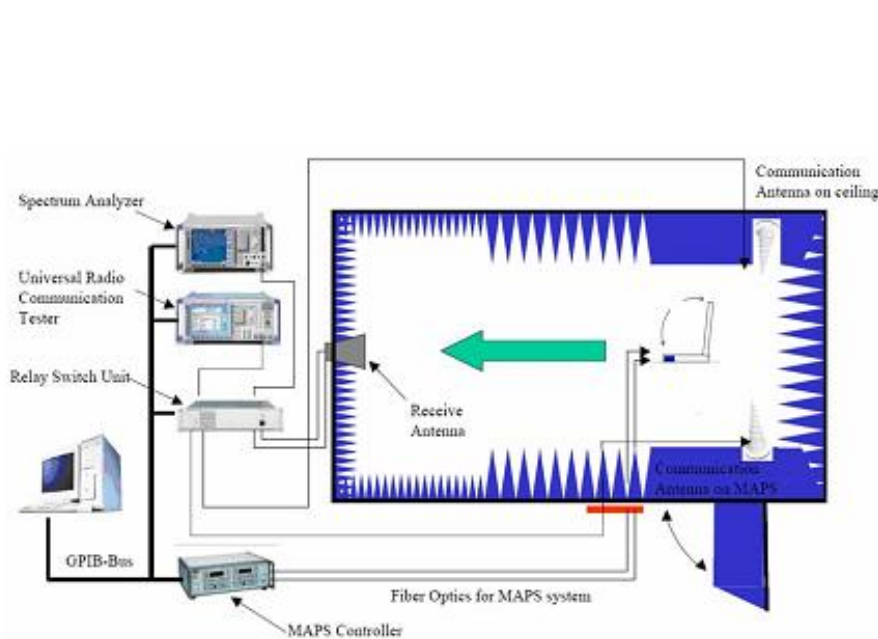
### 1. Network Analyzers :

Agilent 8753D 5071B

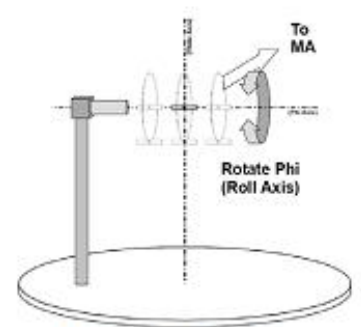
### 2. Communications Test Set:

CMW500

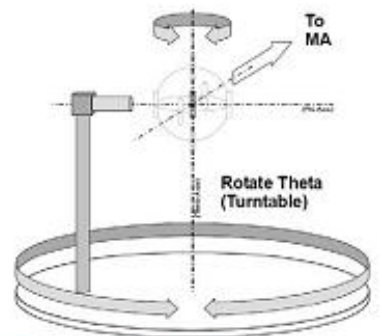
### 3. 3D Chamber Test System



(Testing by 3D anechoic chamber)



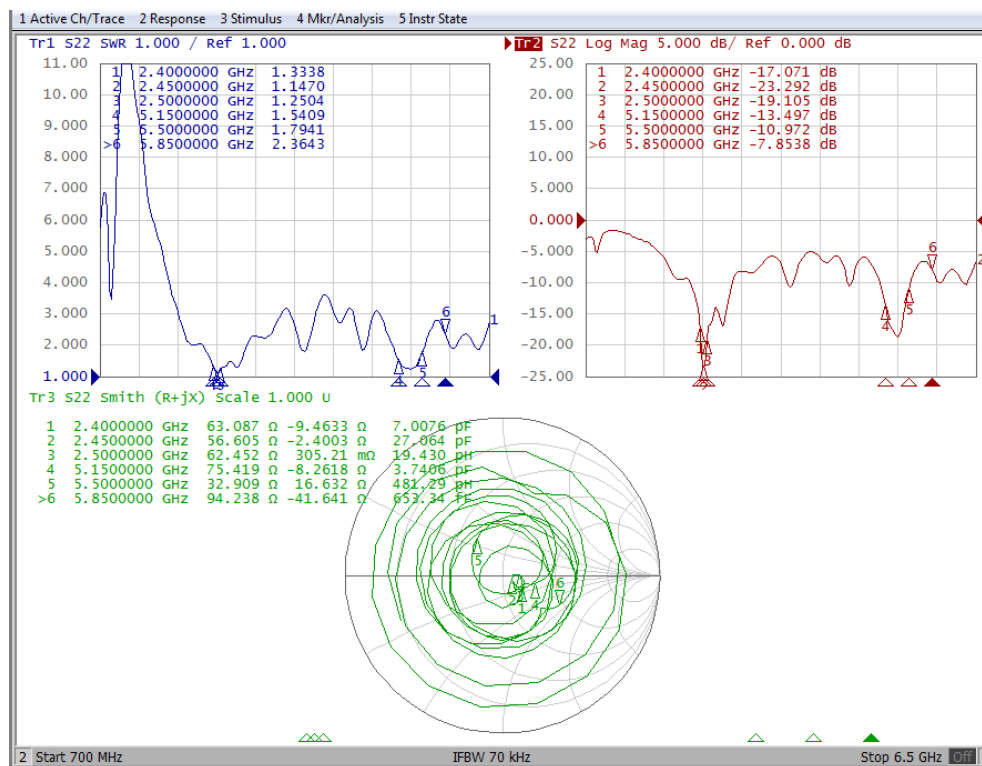
Phi axis test



Theta axis test



## Antenna Impedance: S11 (parameter)

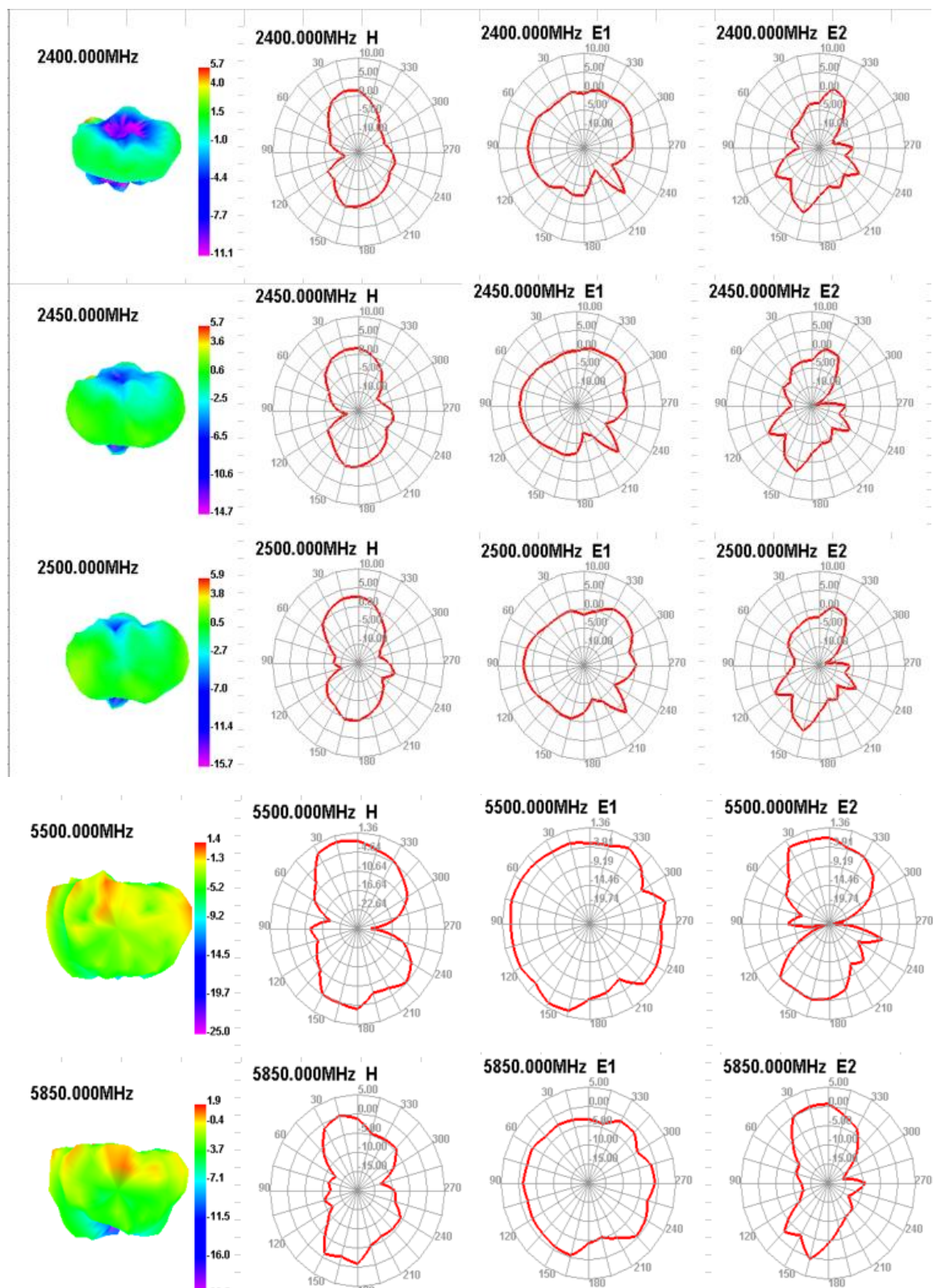


## 效率&增益(Efficiency & gain):

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 2400       | 67.08    | 5.71       |
| 2410       | 64.05    | 5.46       |
| 2420       | 64.47    | 5.48       |
| 2430       | 66.59    | 5.56       |
| 2440       | 68.98    | 5.67       |
| 2450       | 69.63    | 5.66       |
| 2460       | 67.13    | 5.53       |
| 2470       | 64.74    | 5.4        |
| 2480       | 67.85    | 5.6        |
| 2490       | 73.51    | 5.87       |
| 2500       | 75.87    | 5.91       |

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 5150       | 50.46    | 0.67       |
| 5200       | 51.68    | 1.14       |
| 5250       | 51.39    | 0.72       |
| 5300       | 52.19    | 0.73       |
| 5350       | 55.34    | 1.39       |
| 5400       | 53.67    | 2.25       |
| 5450       | 51.24    | 2          |
| 5500       | 50.56    | 1.36       |
| 5550       | 51.23    | 1.76       |
| 5600       | 51.32    | 2.01       |
| 5650       | 52.29    | 2.3        |
| 5700       | 50.19    | 1.77       |
| 5750       | 49.1     | 1.67       |
| 5800       | 50.16    | 1.32       |
| 5850       | 51.58    | 1.86       |

天线3D辐射图(Antenna 3D radiation pattern):



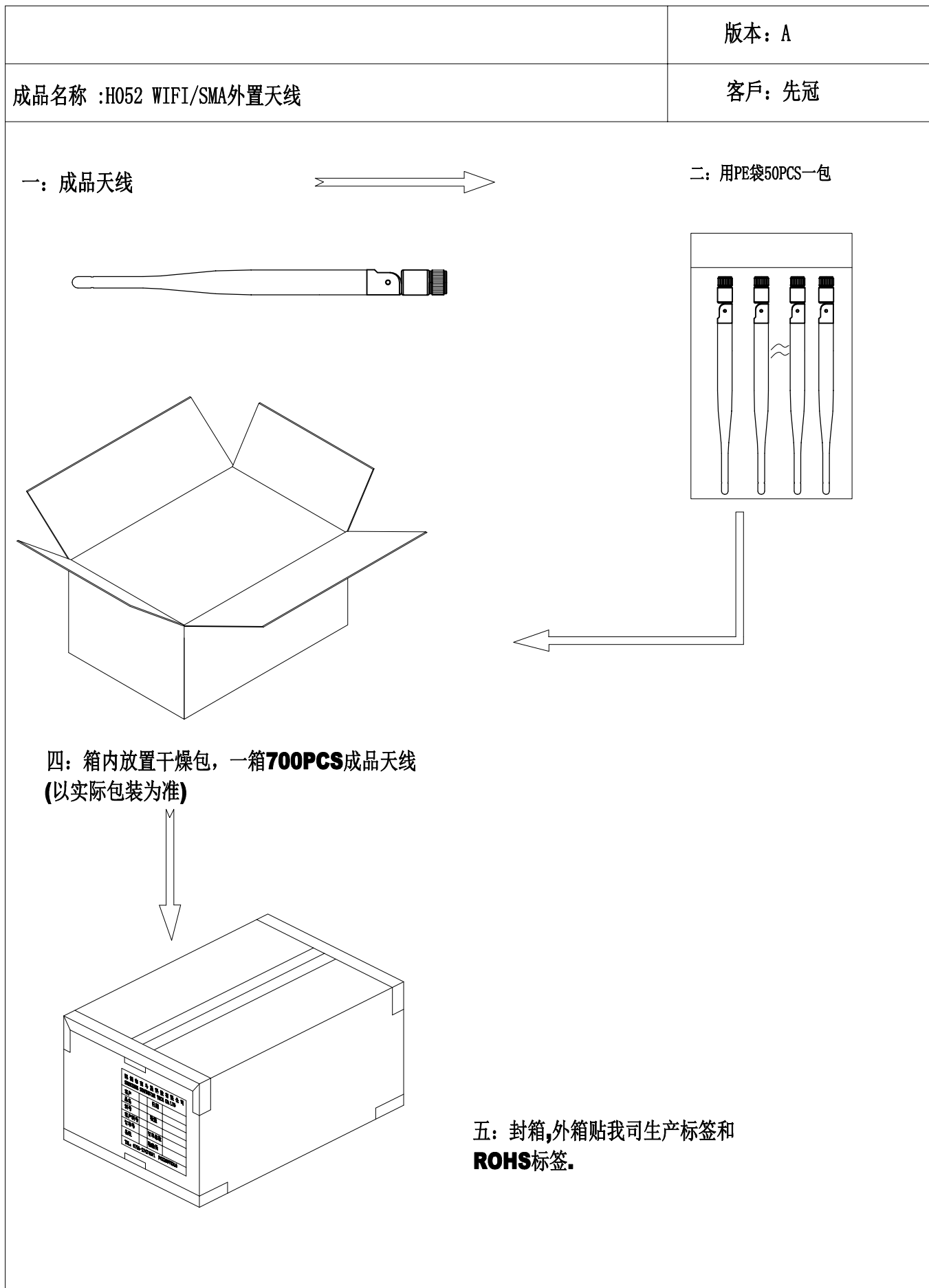


安装方式(Installation method):





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批准:

确认: \_\_\_\_\_

拟制：雷双露