

# Shenzhen Saiwei Communication Technology Co., Ltd

## Antenna Specifications

Customer Name: Tai Lefeng  
Project name: S26  
Reporting time: 20231016

Address: Building 211, Taihe Industrial and  
Trade Park, Futian District, Shenzhen, China

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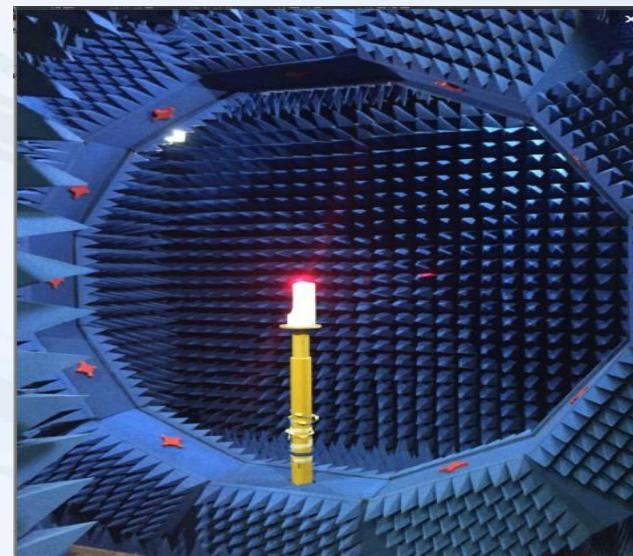
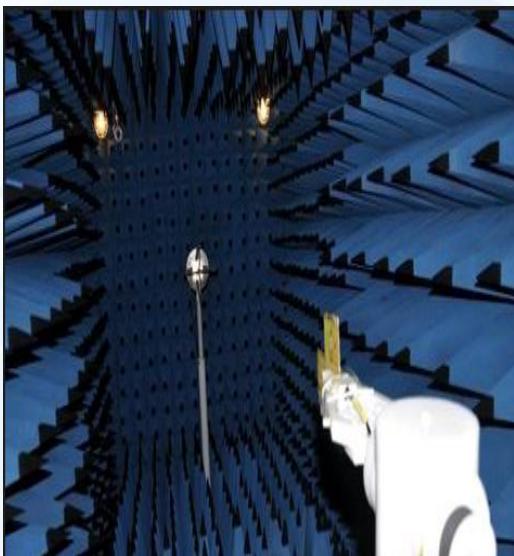
# Introduction to project debugging

| Type             | Smart phone    |                |                         |                       |               |             |                  |
|------------------|----------------|----------------|-------------------------|-----------------------|---------------|-------------|------------------|
| Plate type       | Motherboard    |                |                         |                       |               |             |                  |
| Antenna Overview | Main antenna   | Frequency band |                         | Premature line status | Yao line form | Design area | Matching changes |
|                  |                | 2G             | 850/900/1800/1900       |                       |               |             |                  |
|                  |                | 3G             | W1/2/5/8                |                       |               |             |                  |
|                  |                | 4G             |                         |                       |               |             |                  |
|                  | Other antennas | BT/WIFI        | 2.4G                    | FPC                   | PIFA          |             |                  |
|                  |                | GPS            | 1.575G                  |                       |               |             |                  |
|                  |                | Episodes       |                         |                       |               |             |                  |
| Prototype status |                |                | Environmental treatment |                       |               |             |                  |

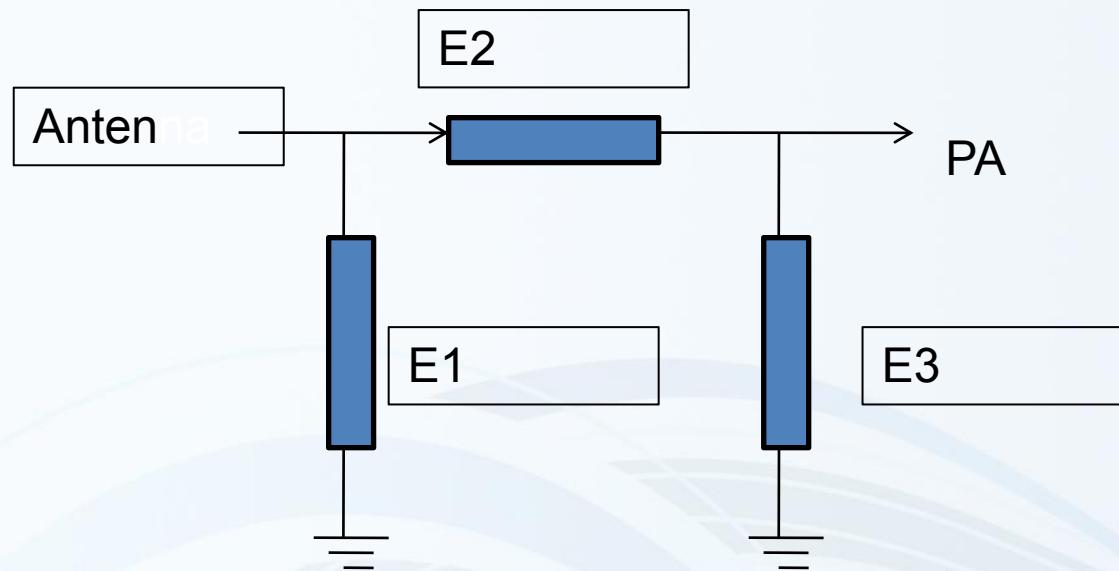
# Report version feed

| Edition | Date     | Overview of meat |
|---------|----------|------------------|
| V1      | 20231016 | Test data        |
|         |          |                  |
|         |          |                  |
|         |          |                  |
|         |          |                  |
|         |          |                  |
|         |          |                  |

# Test environment



# Main antenna matching circuit



| Element   | Value |
|-----------|-------|
| E1 (0402) | N/A   |
| E2 (0402) | N/A   |
| E3 (0402) | N/A   |

## 2G OTA

| 2G   | Channel | TRP (dBm) | TIS (dBm) |
|------|---------|-----------|-----------|
| 850  | 128     | 24.2      |           |
|      | 192     | 24.3      |           |
|      | 251     | 23.7      | -101.3    |
| 900  | 1       | 24.5      |           |
|      | 62      | 24.2      |           |
|      | 124     | 24.2      | -100.5    |
| 1800 | 512     | 23.4      |           |
|      | 698     | 23.1      |           |
|      | 885     | 22.6      | -101.2    |
| 1900 | 512     | 22.3      |           |
|      | 661     | 21.7      |           |
|      | 810     | 21.4      | -100.4    |

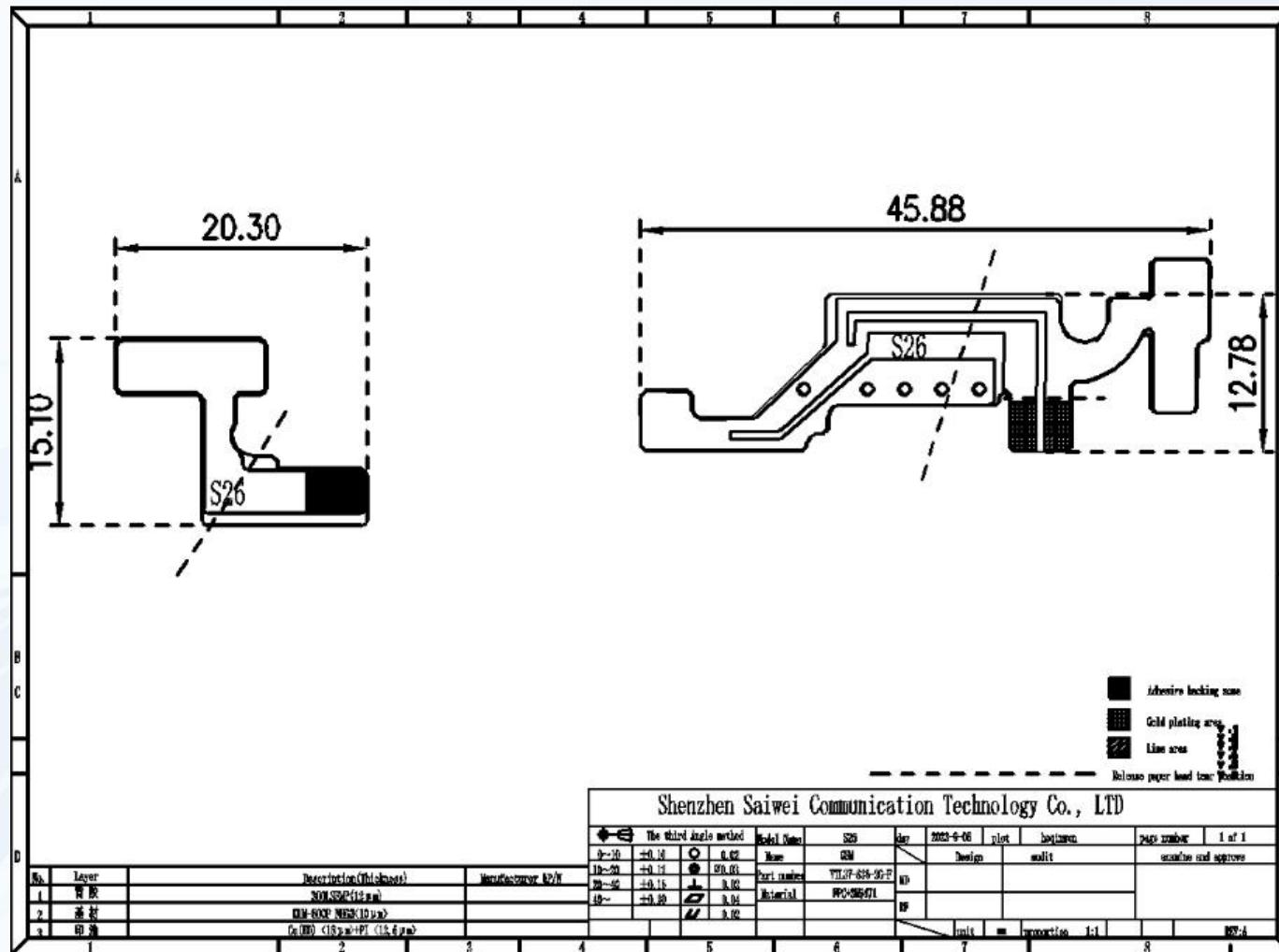
## 3G OTA

| 3G | Channel | TRP (dBm) | TIS (dBm) |
|----|---------|-----------|-----------|
| W1 | L       | 14.5      |           |
|    | M       | 13.3      |           |
|    | H       | 14.6      | -101.4    |
| W2 | L       | 15.4      |           |
|    | M       | 14.4      |           |
|    | H       | 14.2      | -102.3    |
| W5 | L       | 13.1      |           |
|    | M       | 14.2      |           |
|    | H       | 13.3      | -104.2    |
| W8 | L       | 14.5      |           |
|    | M       | 14.6      |           |
|    | H       | 15.1      | -101.5    |

# Antenna gain

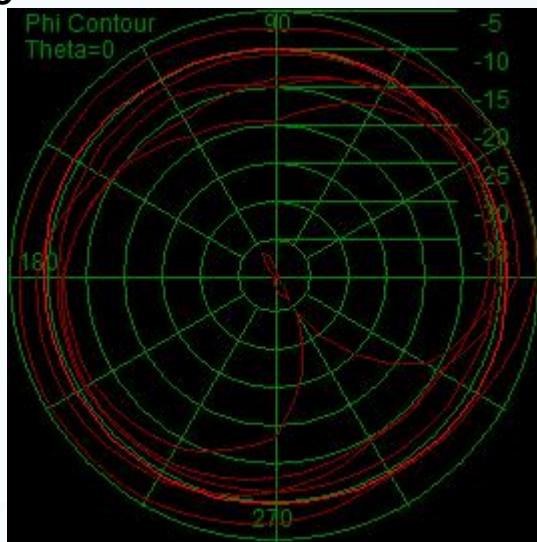
| Standard | Band   | Gain (dbi) |
|----------|--------|------------|
| GSM      | 850    | -1.59      |
| GSM      | 900    | -1.37      |
| GSM      | 1800   | -0.66      |
| GSM      | 1900   | -0.06      |
| WCDMA    | W1     | 0.53       |
| WCDMA    | W2     | -0.06      |
| WCDMA    | W5     | -1.59      |
| WCDMA    | W8     | -1.37      |
| WIFI     | 2.4G   | 0.44       |
| BT       | 2.4G   | 0.44       |
| GPS      | 1.575G | -2.41      |

# Antenna specifications

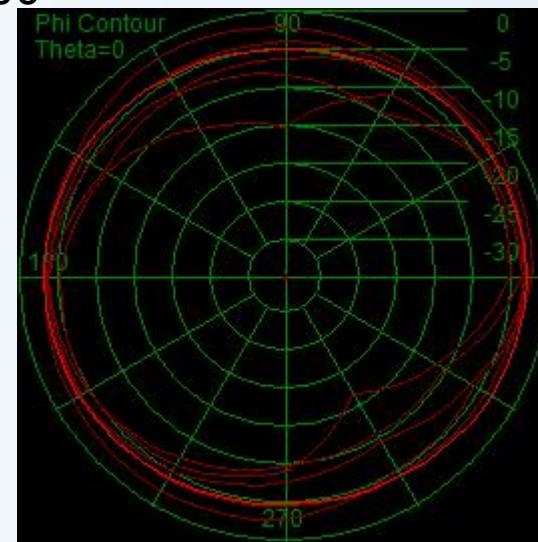


# 2D picture display

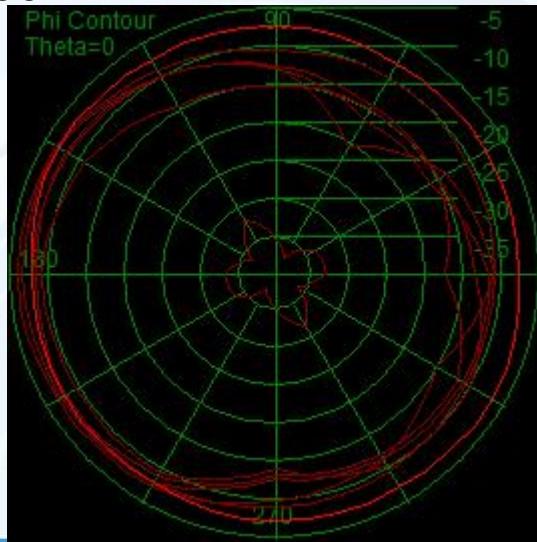
850



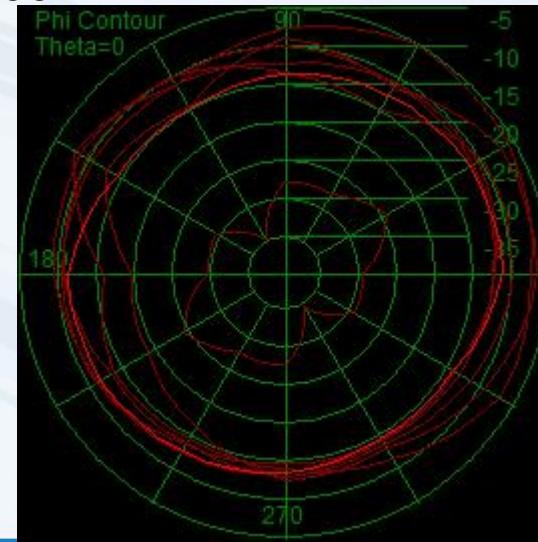
900



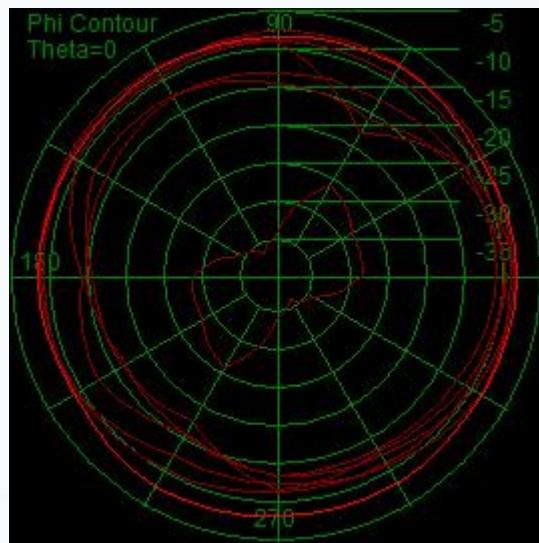
1800



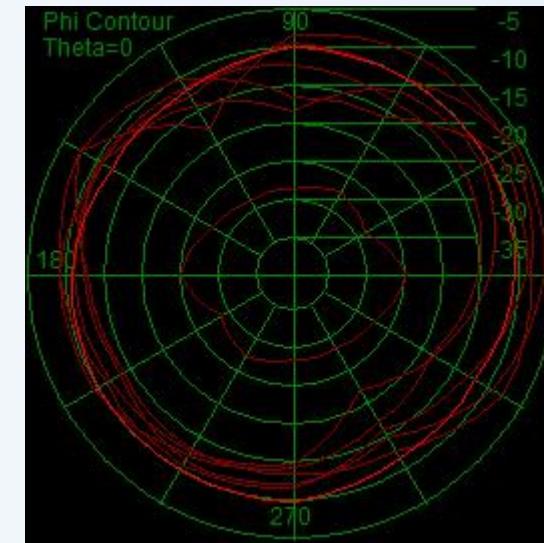
1900



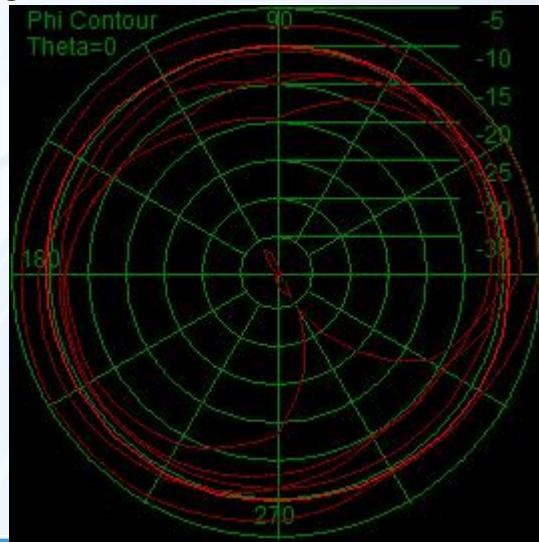
W1



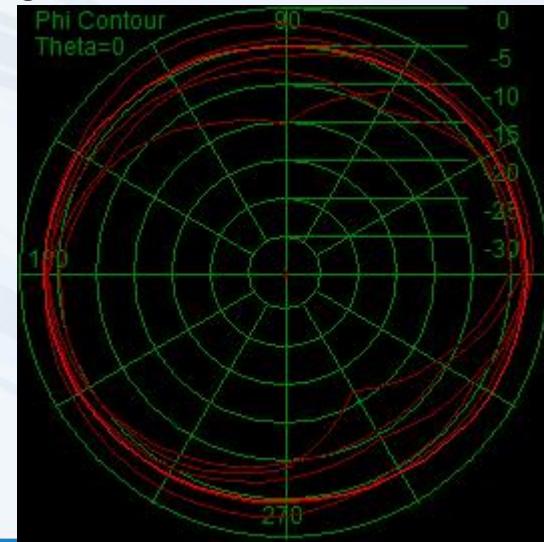
W2



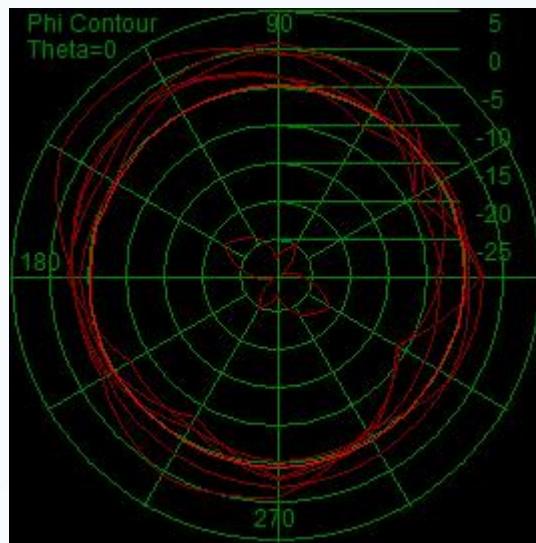
W5



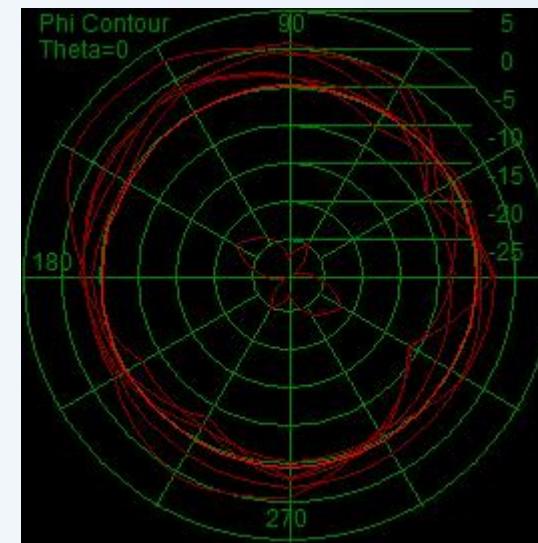
W8



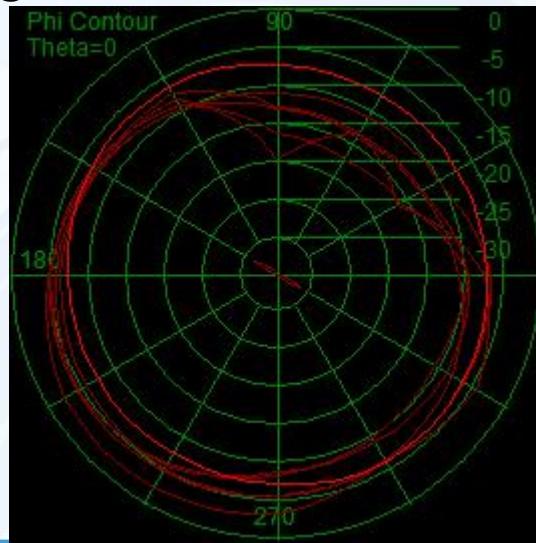
WIFI



BT

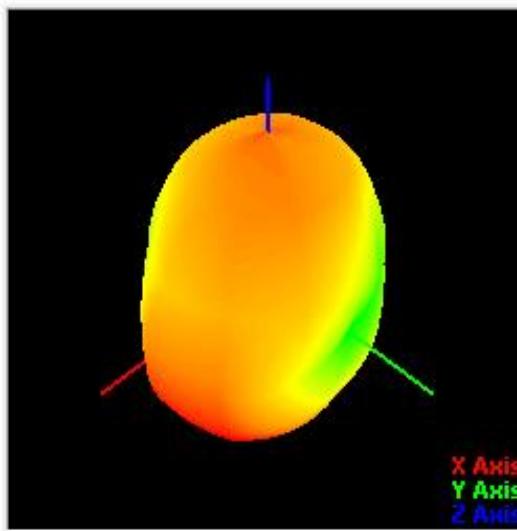


GPS

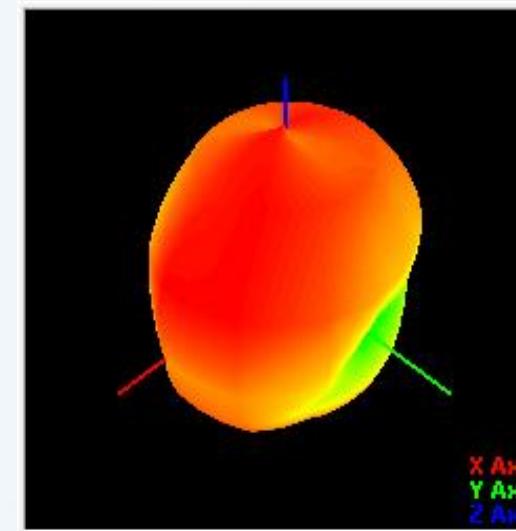


# 3D picture display

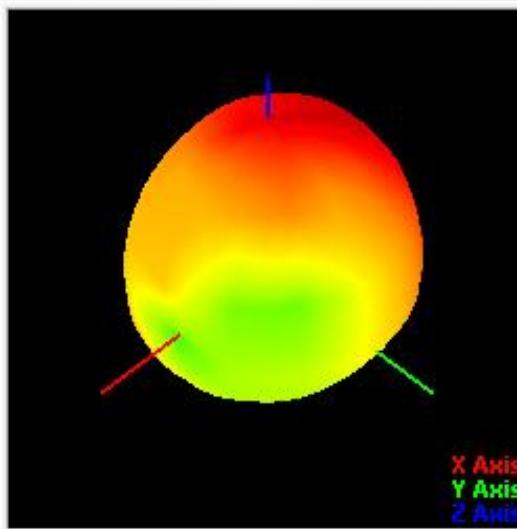
850



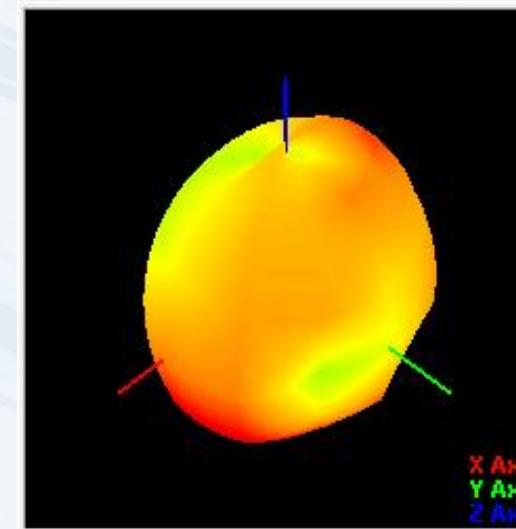
900



1800

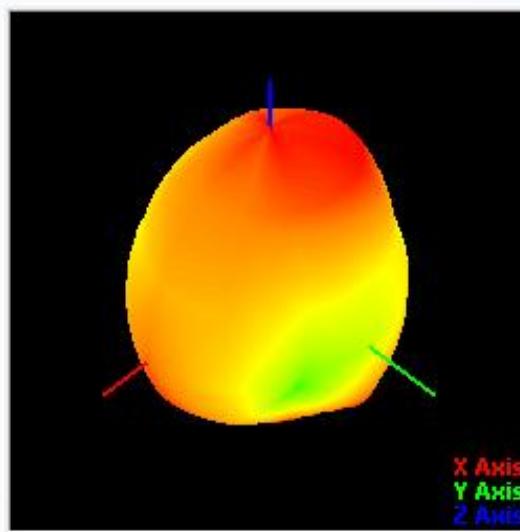


1900

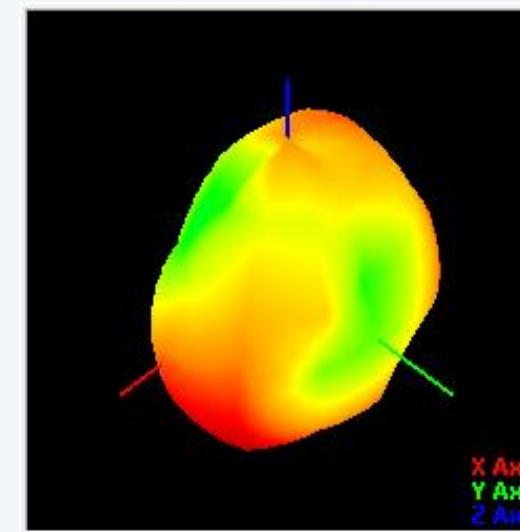


# 3D picture display

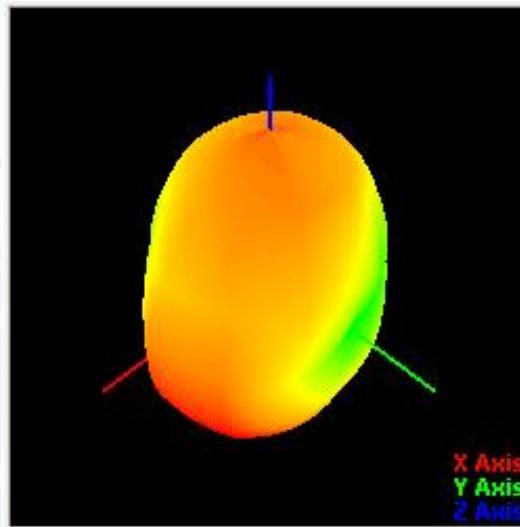
W1



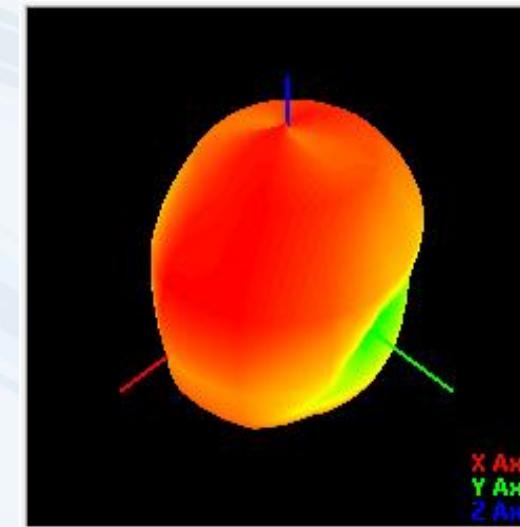
W2



W5

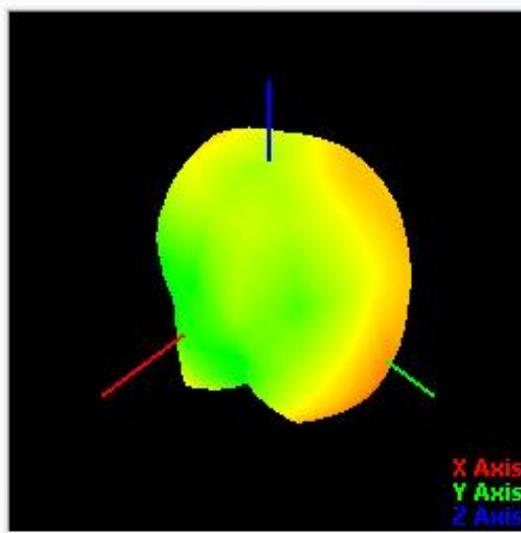


W8

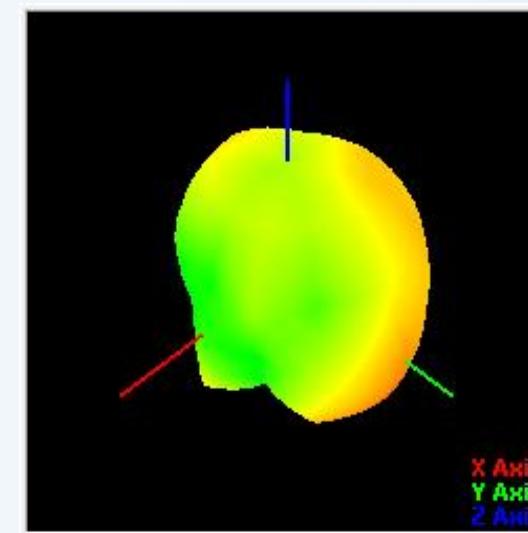


# 3D picture display

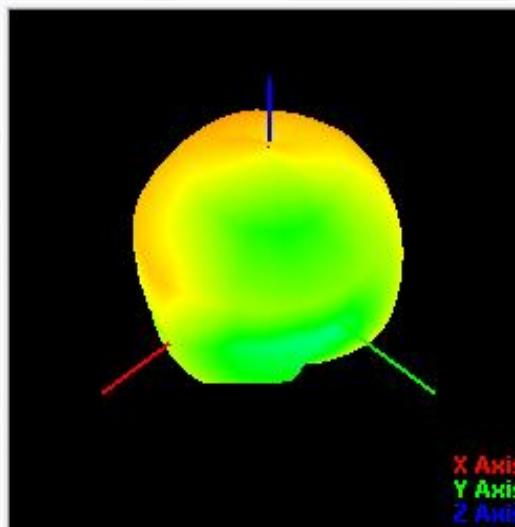
WIFI



BT



GPS



- ◇ Please carefully confirm whether the matching circuit mentioned in the report is modified and whether the environmental processing is conductive, which will directly affect the antenna performance.
- ◇ The parameters provided in this report are only for the reference given by customers to our demo.
- ◇ If your company has a prototype with the latest trial production or update status (replacement of materials, update software, replacement of environment processing, etc.), please submit it to our company for verification as soon as possible to confirm whether the antenna performance has been affected..
- ◇ If you need to send it to a third party for retest or send it to the customer for testing, please be sure to hand over the machine that needs to be tested by our company for testing and confirmation, because of the consistency of the motherboard, the consistency of assembly, and the difference in antenna assembly, etc. All factors may lead to the deviation of antenna parameters.

# THANKS!



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