

# 深圳市亿圣邦科技有限公司

## The Holy bond Electronics Co., Ltd. Antenna Test Report

Customer: 亿莱顿

Project: WF4305

Product: WIFI Antenna—FPC

Report date: 2024-1-23

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Checked by : Eason Huang

Approved by :



## ***Purpose***

This report is to measure the performance of SLK for Master Antenna on 亿莱顿. All measure data are showed below.

## ***Content***

### 1. Product Overview

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#### 2.1 WIFI 1/2 Antenna VSWR/S11

#### 2.2 WIFI 1/2 Antenna Gain/Efficiency/3D DATA

#### 2.3 WIFI active test

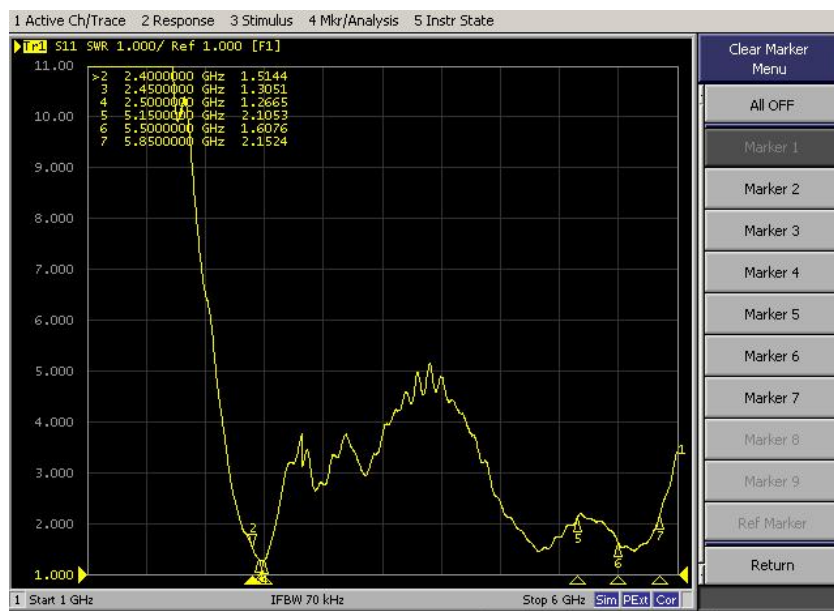
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# 1. Product Overview



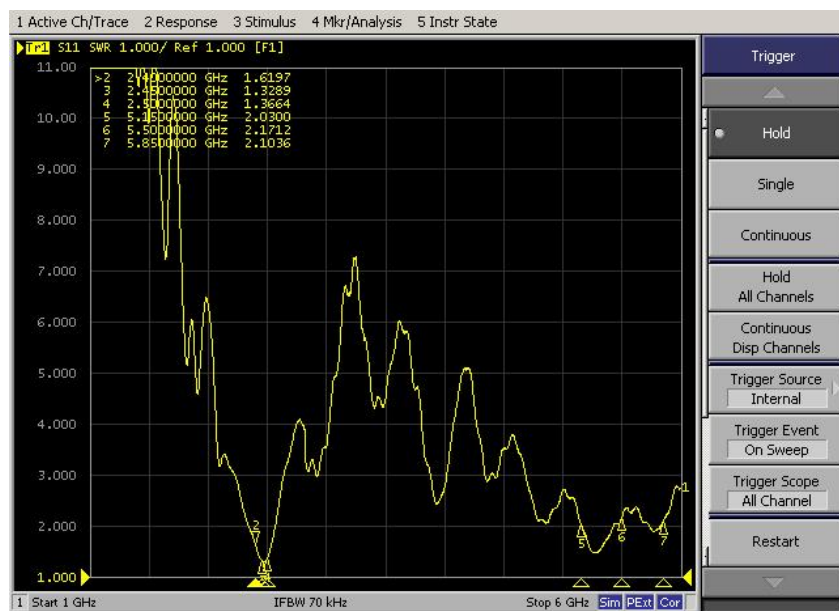
## 2. Test Result

### 2.1 WIFI 1 Antenna VSWR/S11



## 2. Test Result

### 2.1 WIFI 2 Antenna VSWR/S11



## 2. Test Result

### 2.2 WIFI 1 Antenna Gain/Efficiency/3D DATA

| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400.0          | -4.49            | 2.35       | 35.58          |
| 2410.0          | -4.39            | 2.53       | 36.41          |
| 2420.0          | -4.49            | 2.90       | 35.58          |
| 2430.0          | -4.45            | 2.90       | 35.89          |
| 2440.0          | -4.45            | 2.62       | 35.93          |
| 2450.0          | -4.42            | 2.50       | 36.16          |
| 2460.0          | -4.25            | 2.24       | 37.59          |
| 2470.0          | -4.29            | 2.00       | 37.24          |
| 2480.0          | -4.54            | 2.18       | 35.19          |
| 2490.0          | -4.32            | 2.51       | 36.98          |
| 2500.0          | -4.30            | 2.56       | 37.16          |
| 5150.0          | -4.20            | 1.52       | 38.04          |
| 5350.0          | -4.17            | 1.08       | 38.32          |
| 5550.0          | -4.02            | 1.38       | 39.61          |
| 5750.0          | -4.03            | 1.33       | 39.53          |
| 5850.0          | -4.29            | 1.18       | 37.26          |

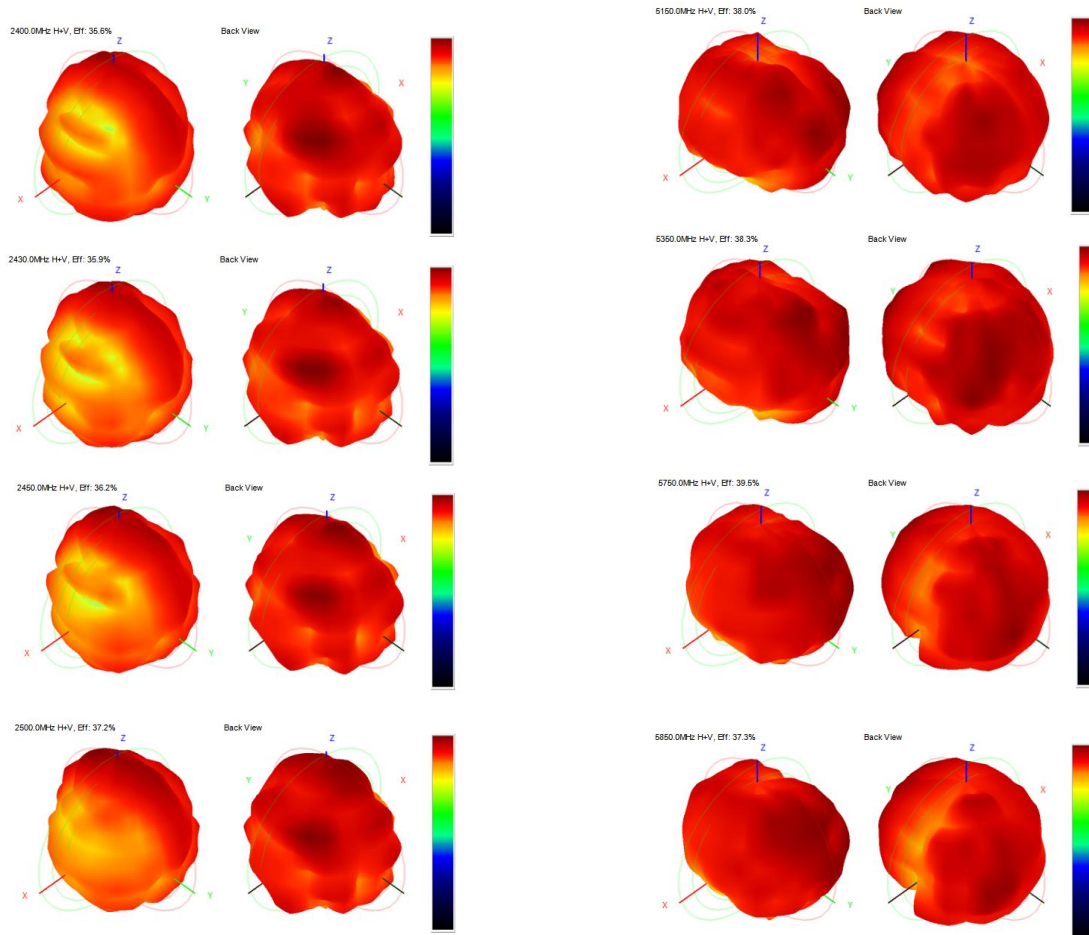
## 2. Test Result

### 2.2 WIFI 2 Antenna Gain/Efficiency/3D DATA

| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400.0          | -4.54            | 2.26       | 35.15          |
| 2410.0          | -4.51            | 2.36       | 35.42          |
| 2420.0          | -4.43            | 2.04       | 36.02          |
| 2430.0          | -4.29            | 2.66       | 37.26          |
| 2440.0          | -4.27            | 2.62       | 37.38          |
| 2450.0          | -4.42            | 2.47       | 36.14          |
| 2460.0          | -4.47            | 2.30       | 35.69          |
| 2470.0          | -4.35            | 1.94       | 36.76          |
| 2480.0          | -4.35            | 1.87       | 36.71          |
| 2490.0          | -4.26            | 1.81       | 37.46          |
| 2500.0          | -4.22            | 1.88       | 37.83          |
| 5150.0          | -4.42            | 0.83       | 36.12          |
| 5350.0          | -4.31            | 1.49       | 37.08          |
| 5550.0          | -4.29            | 2.11       | 37.27          |
| 5750.0          | -4.15            | 2.14       | 38.49          |
| 5850.0          | -4.10            | 2.87       | 38.89          |

## 2. Test Result

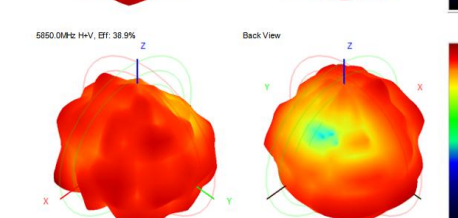
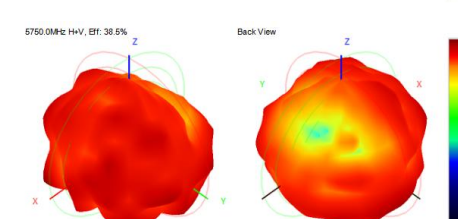
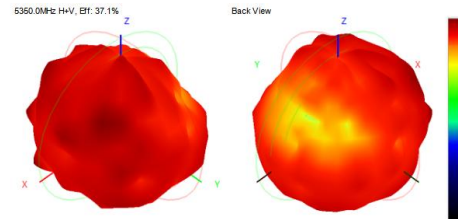
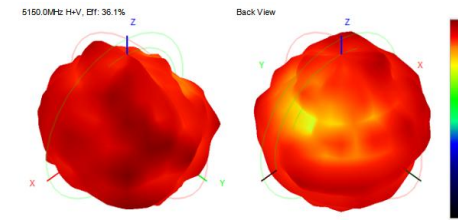
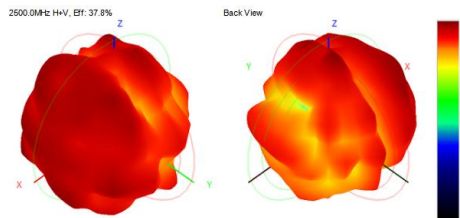
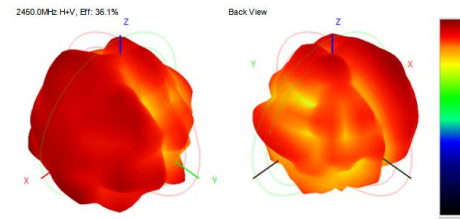
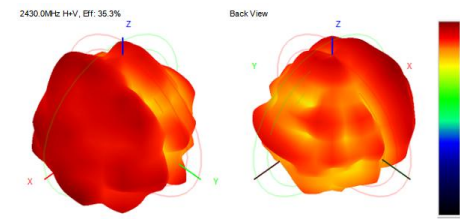
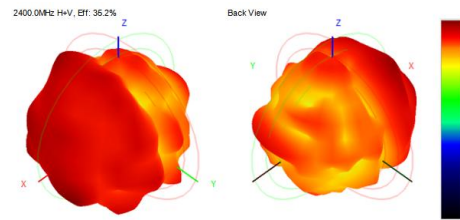
### 2.2 WIFI 1 Antenna Gain/Efficiency/3D DATE





## 2. Test Result

### 2.2 WIFI 2 Antenna Gain/Efficiency/3D DATE



## 2. Test Result

### 2.3 WIFI active test

| WIFI有源测试     |        |        |        |
|--------------|--------|--------|--------|
| 频段           | 1      | 6      | 11     |
| B-TRP-11Mbps | 12.18  | 12.43  | 12.62  |
| B-TIS-11Mbps | -78.11 | -80.37 | -79.07 |
| G-TRP-54Mbps | 13.17  | 13.47  | 13.89  |
| G-TIS-54Mbps | -70.89 | -71.16 | -70.95 |
| N-TRP-MCS7   | 13.13  | 13.47  | 13.94  |
| N-TIS-MCS7   | -69.64 | -70.57 | -69.56 |
| 频段           | 36     | 149    | 165    |
| A-TRP-54Mbps | 12.57  | 13.65  | 13.27  |
| A-TIS-54Mbps | -71.84 | -69.41 | -69.81 |



### 3. Conclusions

Thank you