



The Holy bond Electronics Co., Ltd.

## Antenna Test Report

Customer: ELECTRON

Project: DPF97

Product: WIFI Antenna—FPC

Report date: 2023-10-26



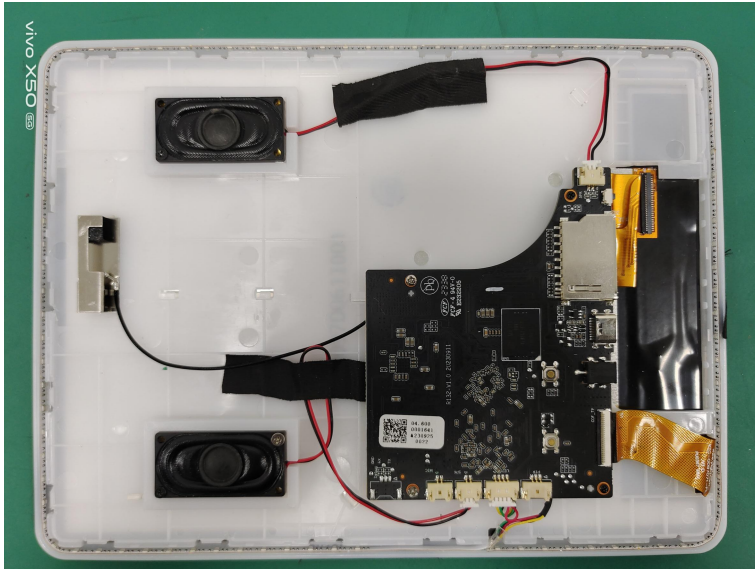
## ***Purpose***

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

## ***Content***

1. Product Overview
2. Test Result
  - 2.1 WIFI Antenna VSWR/S11
  - 2.2 WIFI Antenna Gain/Efficiency/3D DATA
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3. Conclusions

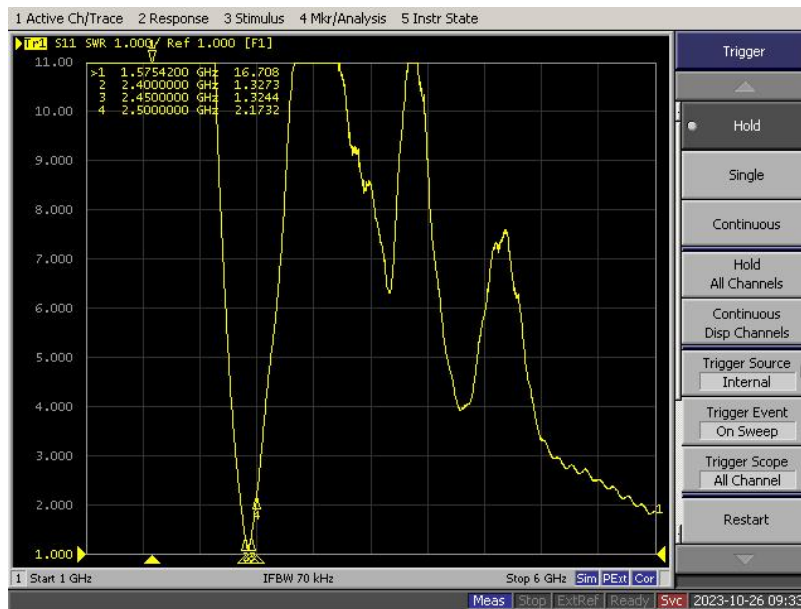
# 1. Product Overview



Wi-Fi ANT

## 2. Test Result

### 2.1 WIFI Antenna VSWR/S11



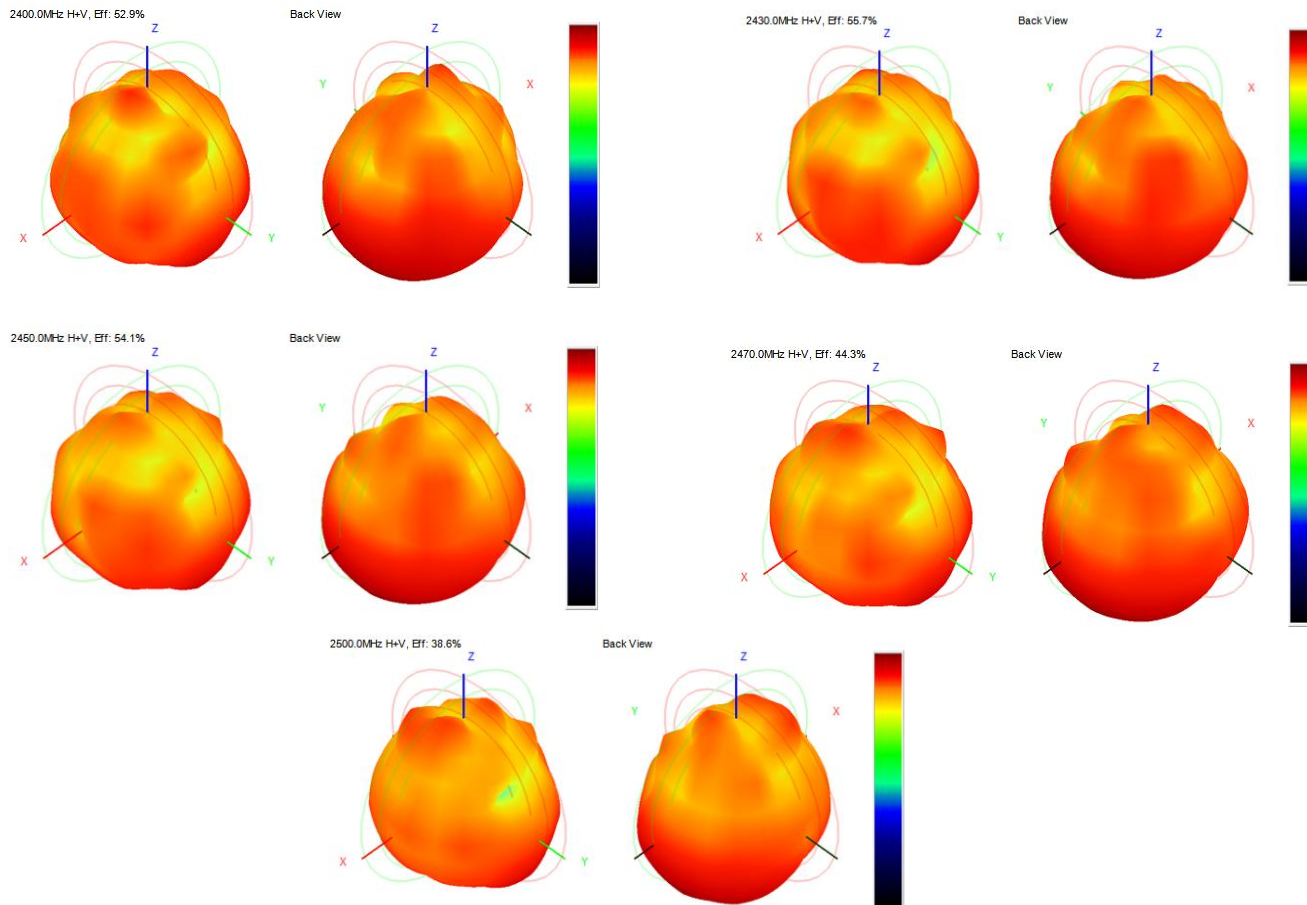
## 2. Test Result

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

| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400.0          | -2.77            | 2.44       | 52.89          |
| 2410.0          | -2.64            | 2.50       | 54.40          |
| 2420.0          | -2.69            | 2.29       | 53.88          |
| 2430.0          | -2.54            | 2.69       | 55.67          |
| 2440.0          | -2.67            | 2.52       | 54.09          |
| 2450.0          | -2.67            | 2.66       | 54.08          |
| 2460.0          | -3.20            | 1.94       | 47.82          |
| 2470.0          | -3.54            | 1.54       | 44.25          |
| 2480.0          | -3.89            | 1.31       | 40.86          |
| 2490.0          | -4.27            | 0.77       | 37.37          |
| 2500.0          | -4.14            | 1.37       | 38.57          |

## 2. Test Result

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



## 2. Test Result

### 2.3 WIFI active test

| WIFI active test |        |        |        |
|------------------|--------|--------|--------|
| Frequency band   | 1      | 6      | 11     |
| B-TRP-11MBps     | 16.33  | 16.7   | 14.96  |
| B-TIS-11MBps     | -79.79 | -79.29 | -78.36 |
| G-TRP-54MBps     | 15.02  | 15.45  | 15.21  |
| G-TIS-54MBps     | -67.98 | -66.18 | -67.49 |
| N-TRP-MCS7       | 15.97  | 16.5   | 15.06  |
| N-TIS-MCS7       | -64.33 | -64.86 | -64.16 |



## 3. Conclusions

Thank you