

The Holy bond Electronics Co., Ltd.

## Antenna Test Report

Customer: ELECTRON

Project: DPF141

Product: WIFI Antenna—FPC

Report date: 2023-10-26

Address: Room 101, Building C, Qianwan Ying technology Park, Gushu, Xixiang, Baoan district, 518000, Guangdong, China



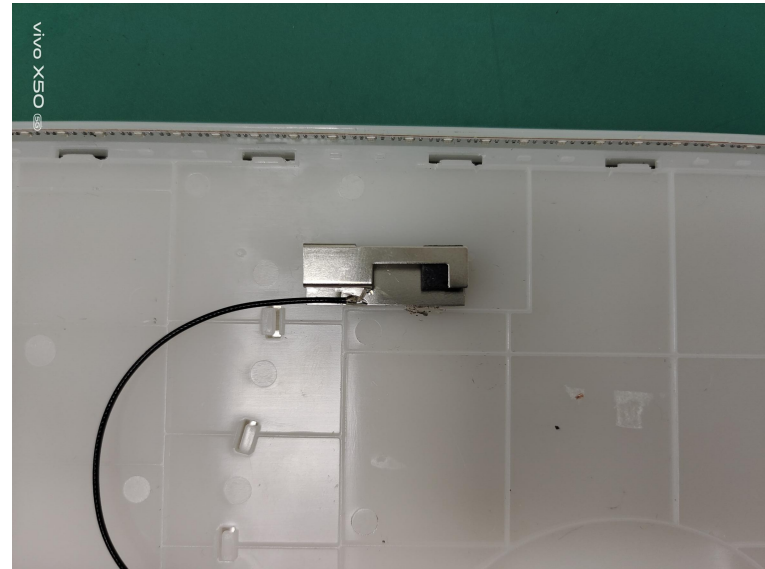
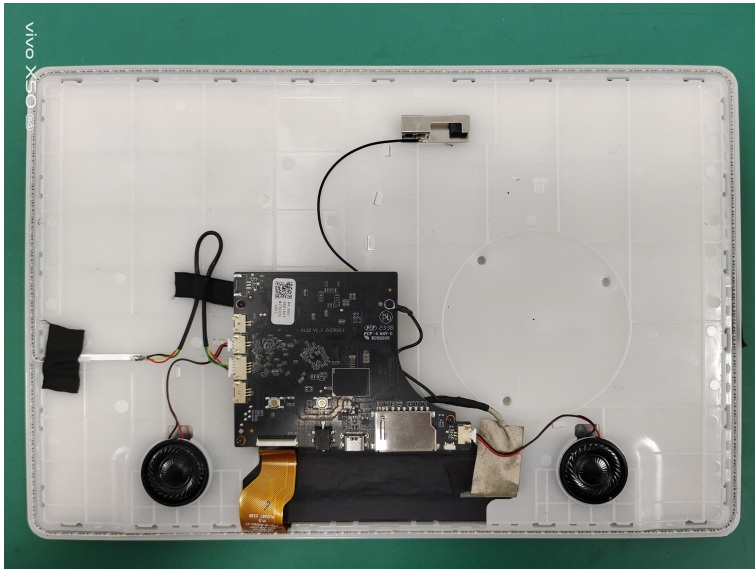
# ***Purpose***

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
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  - 2.2 WIFI Antenna Gain/Efficiency/3D DATA
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3. Conclusions

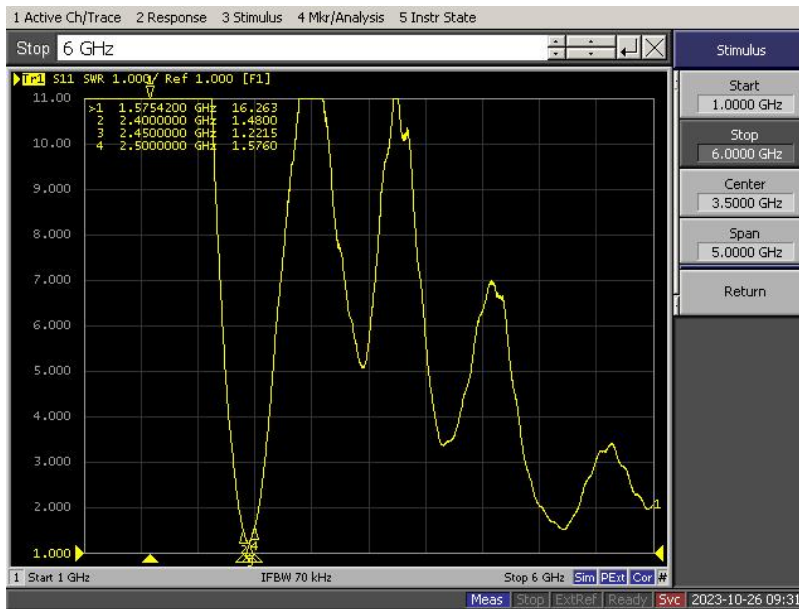
# 1. Product Overview



Wi-Fi ANT

# 2. Test Result

## 2.1 WIFI Antenna VSWR/S11



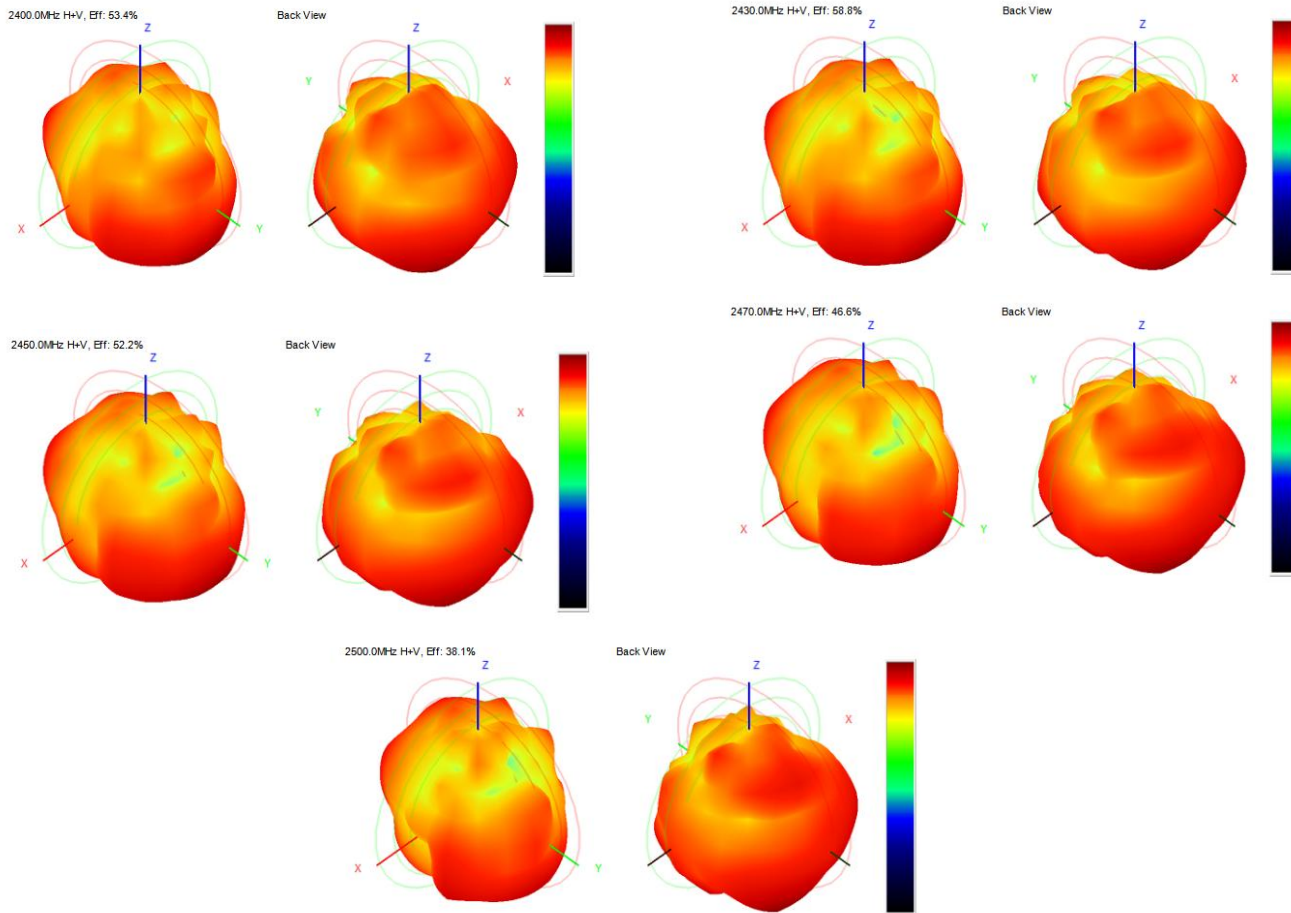
## 2. Test Result

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

| <b>Frequency (MHz)</b> | <b>Efficiency (dBi)</b> | <b>Gain (dBi)</b> | <b>Efficiency (%)</b> |
|------------------------|-------------------------|-------------------|-----------------------|
| <b>2400.0</b>          | <b>-2.73</b>            | 2.23              | <b>53.36</b>          |
| <b>2410.0</b>          | <b>-2.45</b>            | 2.15              | <b>56.89</b>          |
| <b>2420.0</b>          | <b>-2.42</b>            | 2.14              | <b>57.26</b>          |
| <b>2430.0</b>          | <b>-2.30</b>            | 2.08              | <b>58.82</b>          |
| <b>2440.0</b>          | <b>-2.68</b>            | 2.47              | <b>53.94</b>          |
| <b>2450.0</b>          | <b>-2.82</b>            | 2.52              | <b>52.22</b>          |
| <b>2460.0</b>          | <b>-2.97</b>            | 2.42              | <b>50.46</b>          |
| <b>2470.0</b>          | <b>-3.32</b>            | 2.00              | <b>46.59</b>          |
| <b>2480.0</b>          | <b>-3.19</b>            | 2.18              | <b>47.93</b>          |
| <b>2490.0</b>          | <b>-3.63</b>            | 2.17              | <b>43.35</b>          |
| <b>2500.0</b>          | <b>-4.19</b>            | 1.55              | <b>38.08</b>          |

# 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     | 16.49  | 15.34  | 14.92  |
| B-TIS-11Mbps     | -80.56 | -80.09 | -79.03 |
| G-TRP-54Mbps     | 13.3   | 14.18  | 14.7   |
| G-TIS-54Mbps     | -68.02 | -68.23 | -68.88 |
| N-TRP-MCS7       | 12.81  | 13.41  | 13.49  |
| N-TIS-MCS7       | -64.53 | -64.58 | -65.09 |



## 3. Conclusions

Thank you