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IP700 - 07 \_JXW8088 -  
6 8 Machine test report

射频：闵意海

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# Introduction to project debugging

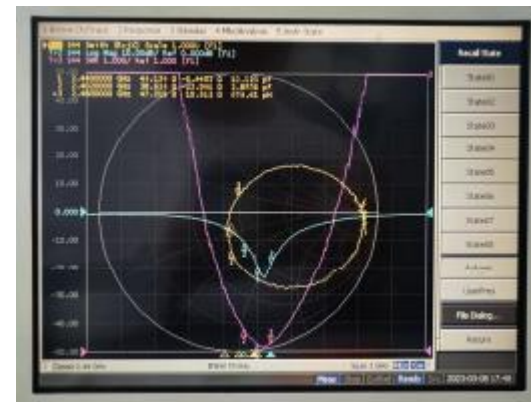
|                           |                             |      |          |          |
|---------------------------|-----------------------------|------|----------|----------|
| Model Description:        | JXW8088-68-VHI              |      |          |          |
| Motherboard model:        |                             |      |          |          |
| Band and antenna material |                             | Band |          | Material |
|                           | Main antenna                | WIFI | 2.412GHz | Onboard  |
| Debug phase               | Active/passive test reports |      |          |          |

# Outline of the report version

| Report version | Reporting time | The problem solved by the development of this antenna |
|----------------|----------------|-------------------------------------------------------|
| V1.0           | 2023-03-14     | Machine test report                                   |
|                |                |                                                       |
|                |                |                                                       |

# Antenna passive parameters—S11

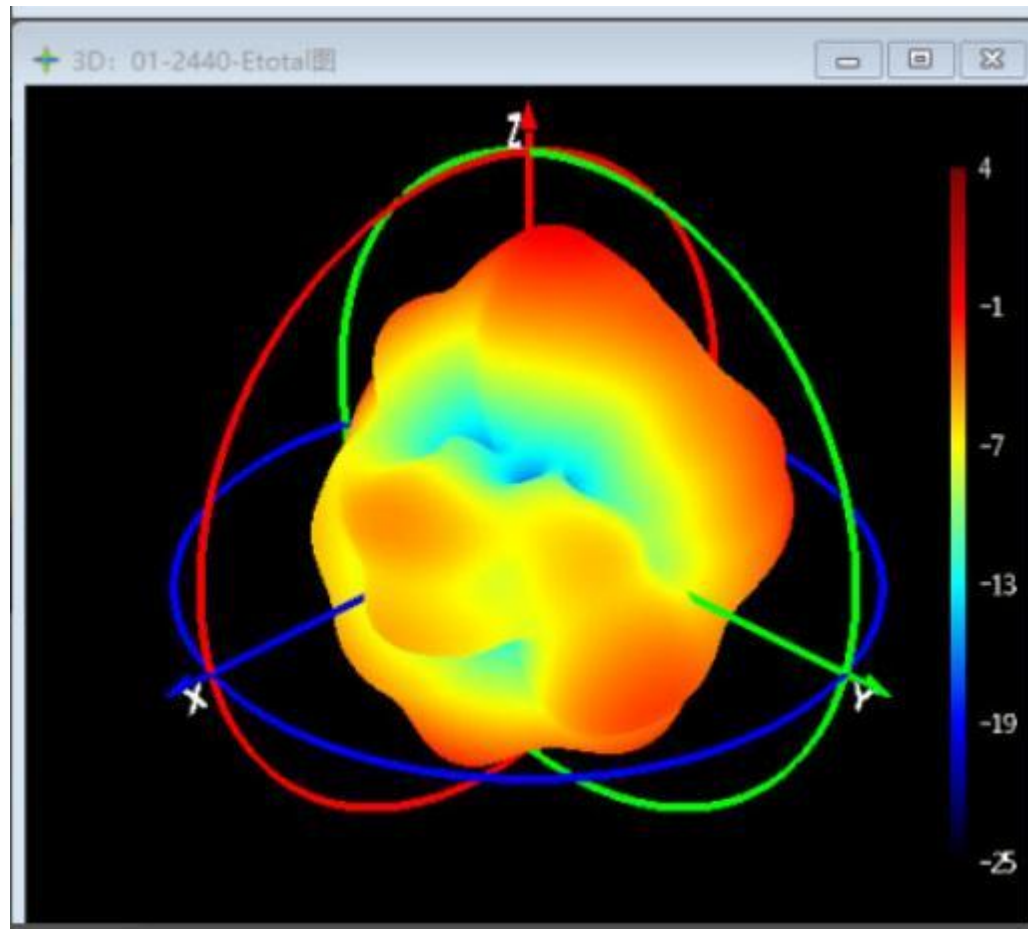
## (Artwork )



# Antenna passive parameters – efficiency

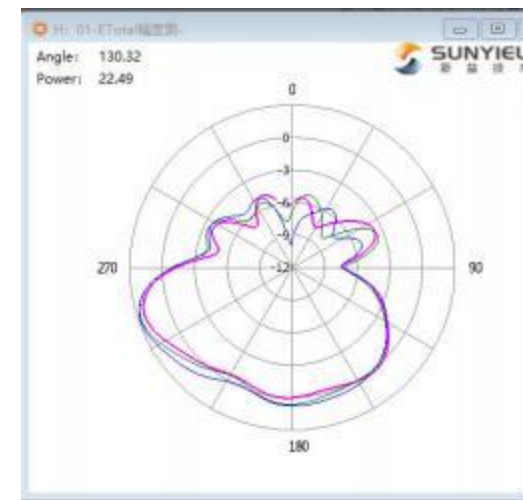
| Test Point ID  | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Freq. (MHz)    | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 |
| Gain (dBi)     | 3.41   | 3.37   | 3.43   | 3.53   | 3.66   | 3.87   | 4.12   | 4.27   | 4.38   |
| Efficiency (%) | 58.41  | 59.63  | 60.46  | 60.99  | 61.43  | 61.85  | 61.96  | 61.89  | 61.60  |

# Antenna 3 D radiation pattern



# Antenna 2D radiation pattern

2.4GHz Directional diagram

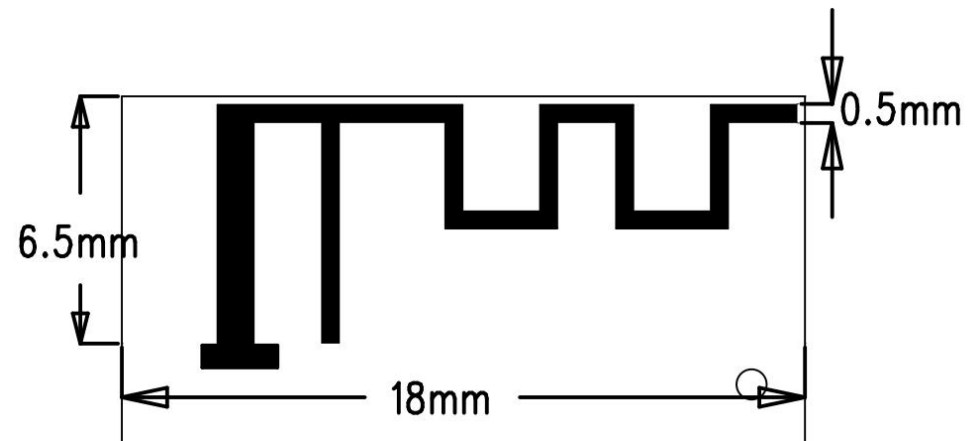


## Antenna active parameters

| Test      | 2.4WIFI B(11M) |        |        | 2.4WIFI G(54M) |        |        |
|-----------|----------------|--------|--------|----------------|--------|--------|
| Result    | 1              | 6      | 11     | 1              | 6      | 11     |
| TRP (dBm) | 15.05          | 14.89  | 15.18  | 11.84          | 11.80  | 12.06  |
| TIS (dBm) | -86.23         | -85.68 | -85.95 | -72.04         | -71.30 | -71.33 |

| Test      | 2.4WIFI N(MCS7) |        |        |
|-----------|-----------------|--------|--------|
| Result    | 1               | 6      | 11     |
| TRP (dBm) | 11.84           | 11.8   | 12.08  |
| TIS (dBm) | -69.69          | -69.13 | -68.66 |

# Antenna size



# Antenna active test scene diagram





# *Thank you!*

**Shenzhen Jingxun Technology Co., Ltd.**

**Office Address: 3 / F, A5 building Zhiyuan Community  
No. 1 0 0 1 , Xueyuan Road Nanshan District , Shenzhen City , China**