

# SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., LtdCUS PART NO: Ai-WB2-12FPART NAME: 2.4G WLAN AntennaEdition: 1.0

|          |             |            |
|----------|-------------|------------|
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## Directory

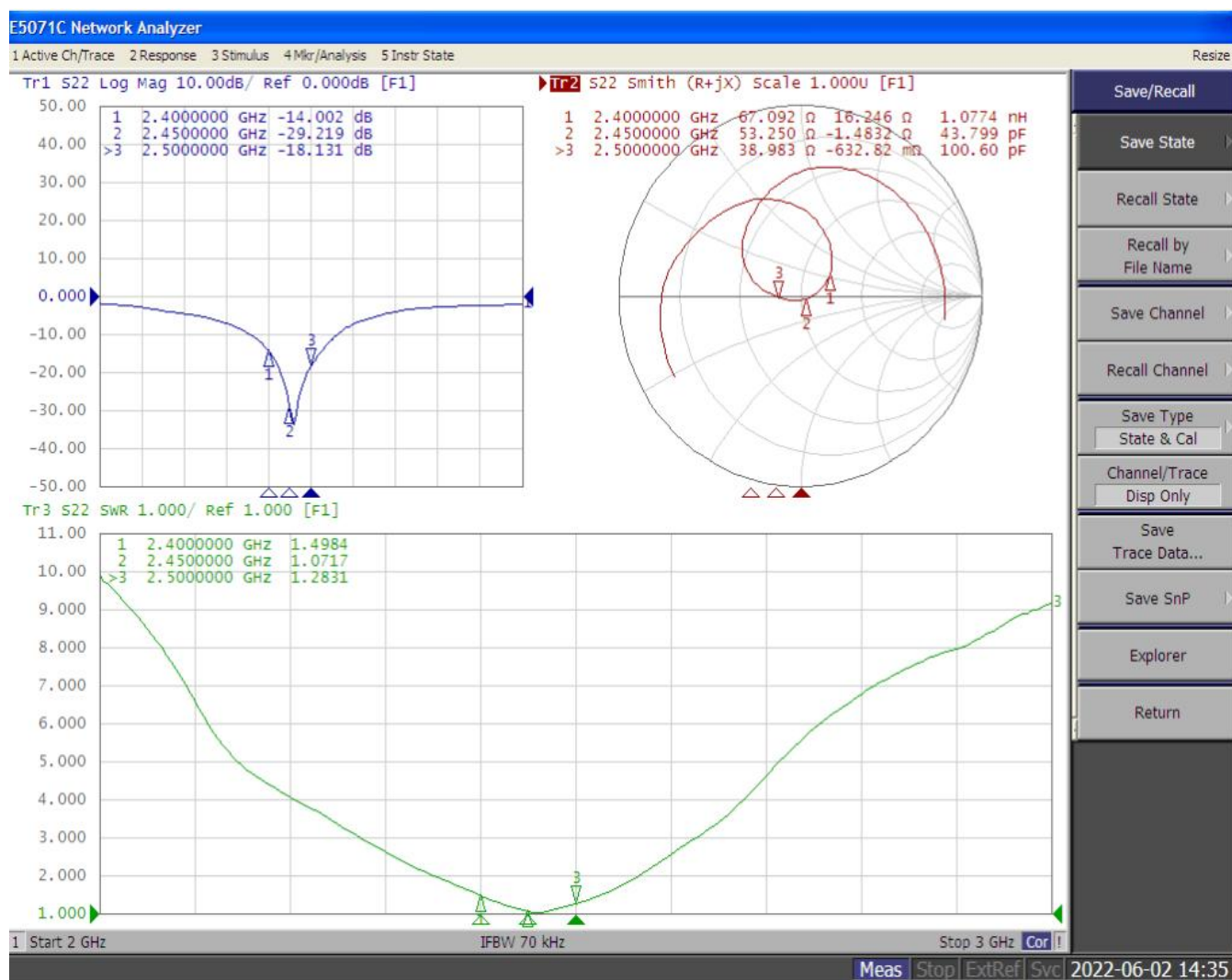
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# Product specification

## 1、Performance parameter

|                           |                          |
|---------------------------|--------------------------|
| Name                      | <u>2.4G WLAN Antenna</u> |
| Model Type                | PCB Print Antenna        |
| ELECTRICAL SPECTFICATIONS |                          |
| Frenquency Range          | 2400-2500MHz             |
| Band Width                | 100MHz                   |
| Impedance                 | 50 $\Omega$              |
| VSWR                      | < 2.0                    |
| MaxGain                   | 2.46dBi                  |
| Polarization              | Vertical/Horizontal      |
| Radiation                 | Omnidirectional          |
| Power                     | 50 W                     |
| MECHANICAL SPECTFICATIONS |                          |
| Connector                 | Welding type             |
| Working Temperature       | -40°C - + 85°C           |
| Limit Temperature         | -40°C - + 125°C          |

## 2、VSWR

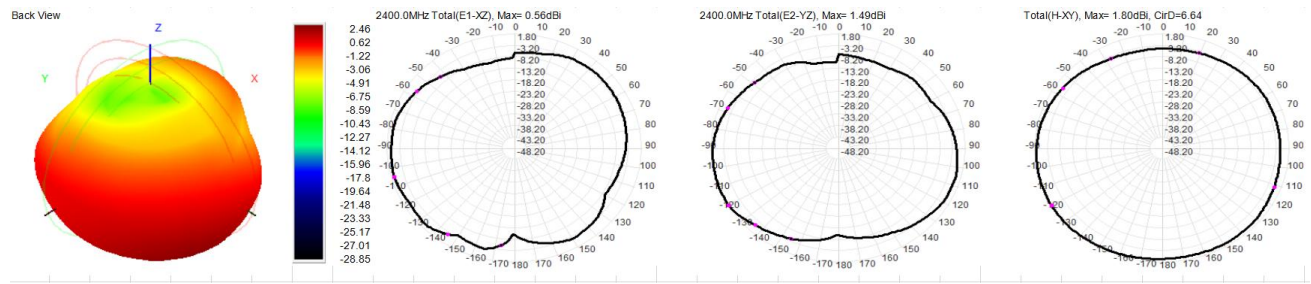


## 3、Passive test data:

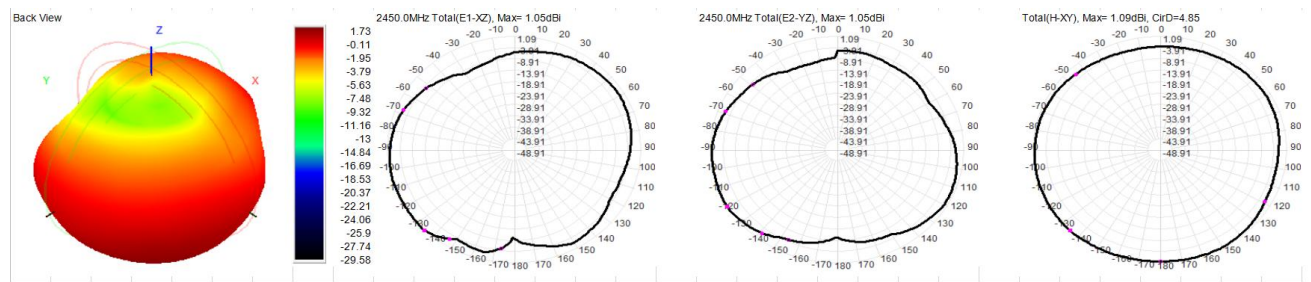
| Frequency (MHz) | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Gain (dBi)      | 2.46  | 2.01  | 2.03  | 1.88  | 1.46  | 1.73  | 1.79  | 1.76  | 1.66  | 1.22  | 1.07  |
| Efficiency (%)  | 61.00 | 62.04 | 60.03 | 62.22 | 58.96 | 64.17 | 63.83 | 62.07 | 60.04 | 54.27 | 52.93 |

#### 4、Radiation pattern

##### 2400MHz



##### 2450MHz



##### 2500MHz

