

# Antenna specification

**KTC**



**Electrical Department**  
**20250616**

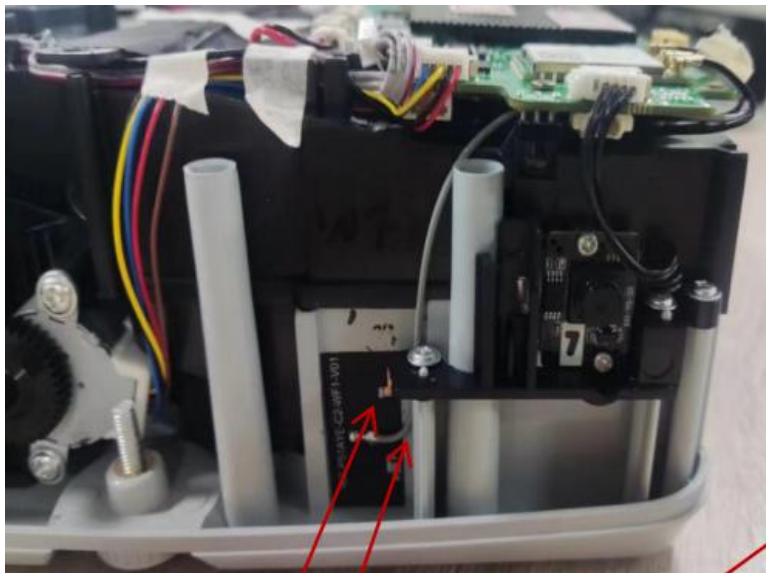
1

**The overall machine environment and antenna**

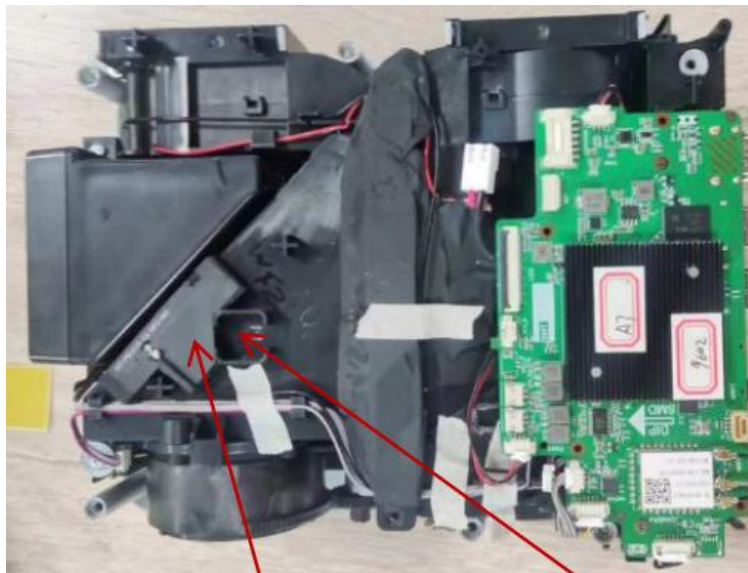
2

**Antenna performance**

# 1、 The overall machine environment and antenna **KTC**



WIFI1



WIFI2



BT

## 2、Antenna performance-Passive-VSWR

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WIFI1



WIFI2

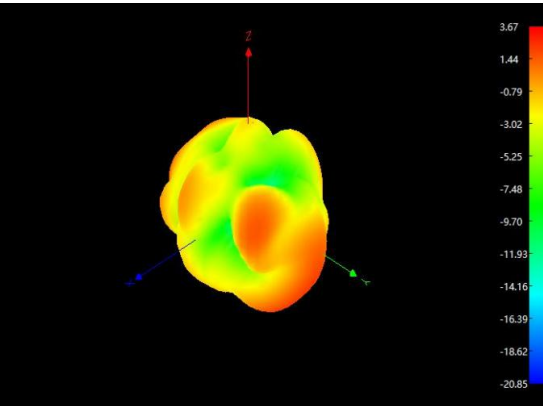
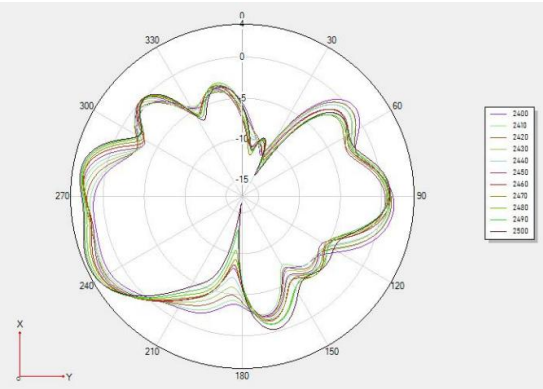


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# 2、Antenna performance-Passive-Efficiency,Gain,Radiation pattern

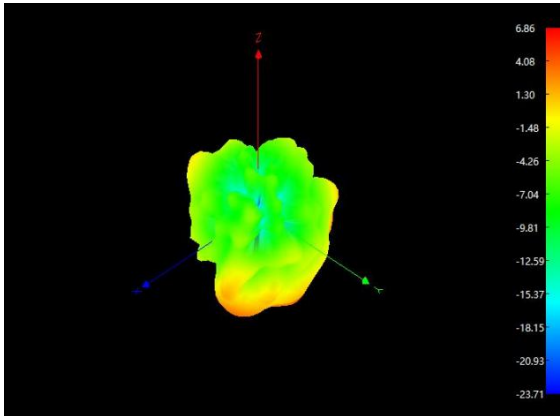
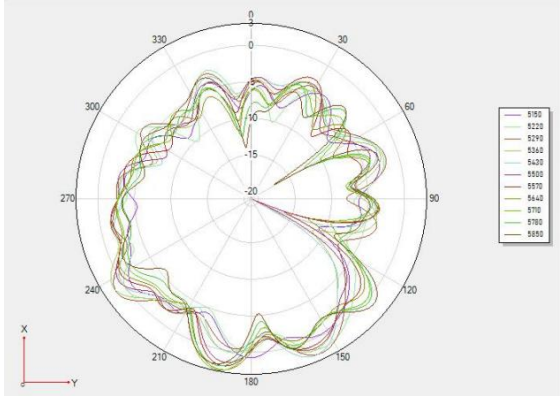
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| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 2400            | 63.68          | 2.71     |
| 2410            | 61.52          | 2.53     |
| 2420            | 66.07          | 2.51     |
| 2430            | 63.83          | 2.7      |
| 2440            | 65.01          | 2.56     |
| 2450            | 62.66          | 2.74     |
| 2460            | 64.42          | 2.87     |
| 2470            | 62.66          | 2.98     |
| 2480            | 63.83          | 3.31     |
| 2490            | 61.8           | 3.49     |
| 2500            | 60.39          | 3.67     |



WIFI1-2.4G

| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 5150            | 69.34          | 6.55     |
| 5220            | 69.66          | 6.29     |
| 5290            | 67.96          | 6.86     |
| 5360            | 65.31          | 6.05     |
| 5430            | 67.14          | 4.4      |
| 5500            | 69.02          | 4.65     |
| 5570            | 64.12          | 4.88     |
| 5640            | 65.16          | 4.64     |
| 5710            | 64.86          | 3.81     |
| 5780            | 61.24          | 3.2      |
| 5850            | 63.68          | 3.93     |

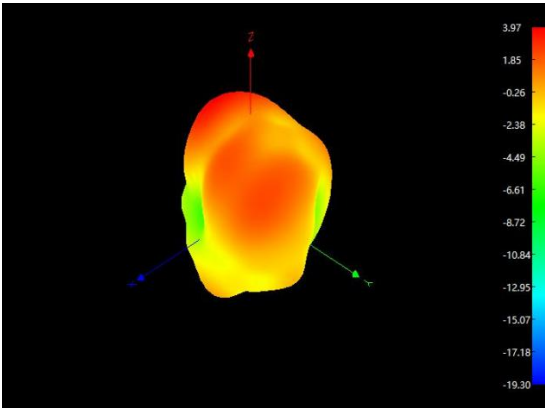
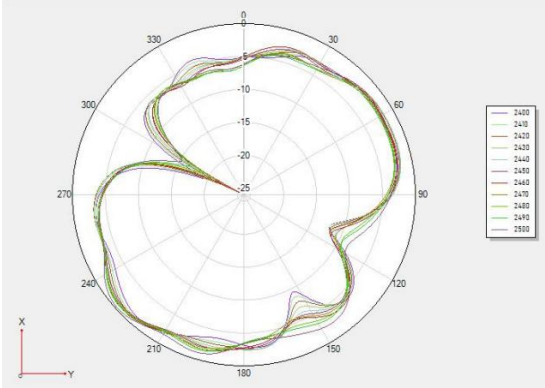


WIFI1-5G

# 2、Antenna performance-Passive- Efficiency,Gain,Radiation pattern

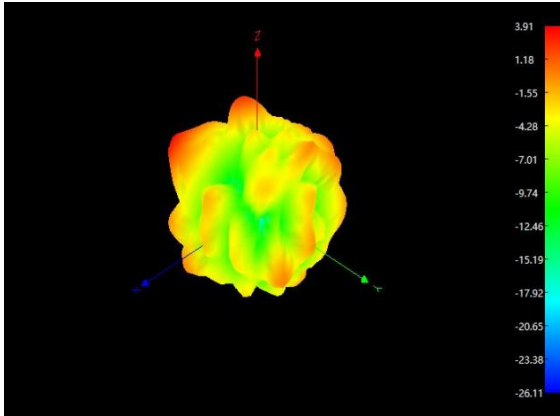
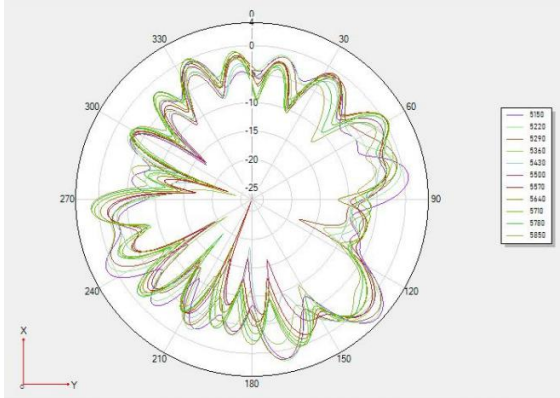
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| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 2400            | 56.23          | 3.33     |
| 2410            | 53.83          | 3.67     |
| 2420            | 56.75          | 3.73     |
| 2430            | 54.95          | 3.95     |
| 2440            | 55.98          | 3.96     |
| 2450            | 52.72          | 3.75     |
| 2460            | 53.33          | 3.67     |
| 2470            | 51.64          | 3.66     |
| 2480            | 52.36          | 3.95     |
| 2490            | 52.12          | 3.67     |
| 2500            | 54.83          | 3.97     |



WIFI2-2.4G

| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 5150            | 56.23          | 3.46     |
| 5220            | 55.72          | 3.1      |
| 5290            | 56.49          | 3.22     |
| 5360            | 51.88          | 3.57     |
| 5430            | 55.46          | 3        |
| 5500            | 55.98          | 3.1      |
| 5570            | 53.58          | 3.17     |
| 5640            | 51.76          | 3.37     |
| 5710            | 51.29          | 3.66     |
| 5780            | 49.43          | 3.91     |
| 5850            | 45.85          | 3.29     |

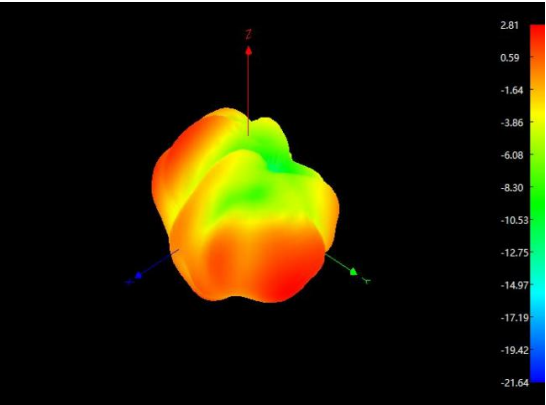
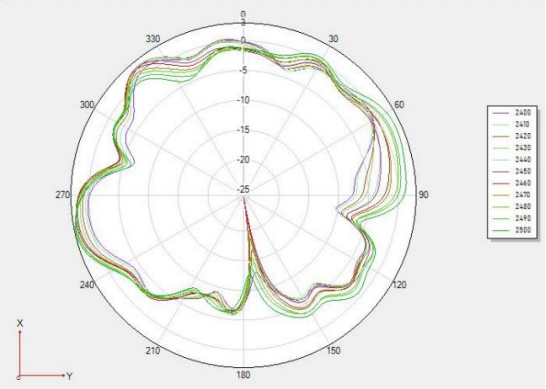


WIFI2-5G

# 2、Antenna performance-Passive- Efficiency,Gain,Radiation pattern

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| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 2400            | 53.95          | 2.37     |
| 2410            | 51.52          | 2.35     |
| 2420            | 55.85          | 2.38     |
| 2430            | 54.08          | 2.58     |
| 2440            | 56.36          | 2.71     |
| 2450            | 53.58          | 2.63     |
| 2460            | 54.83          | 2.78     |
| 2470            | 52.6           | 2.48     |
| 2480            | 53.46          | 2.59     |
| 2490            | 52             | 2.58     |
| 2500            | 52.6           | 2.81     |



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