

Antenna specification

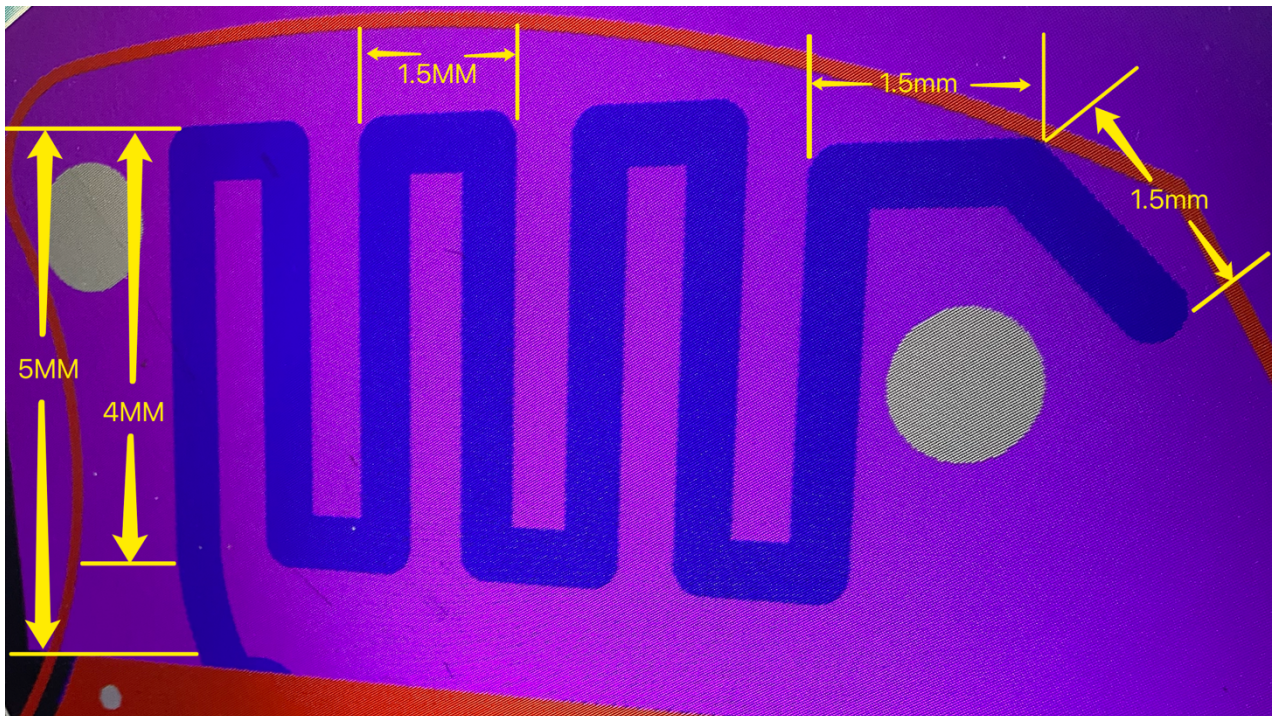
1、 Antenna introduction

The Bluetooth module antenna is directly used on the PCB.

Manufacturer: Shenzhe Xinzi Union Technology Co., Ltd

Address: Part 2, 401, Building D2, Hengli Industrial Park, No.168, Xiakeng 1st Road, Tongde Community, Baolong Sub-District, Longgang District, Shenzhen City

2、 Antenna shape



3、 Antenna parameter

The Bluetooth antenna operates at 2402-2480 MHz and generates resonance in this band. The table below shows the main parameters of the antenna.

| | |
|-----------------|-----------------|
| Frequency (MHz) | 2402 ~ 2480 MHz |
| VSWR | ≤ 1.95 |
| Impedance | 50 Ohm Nominal |

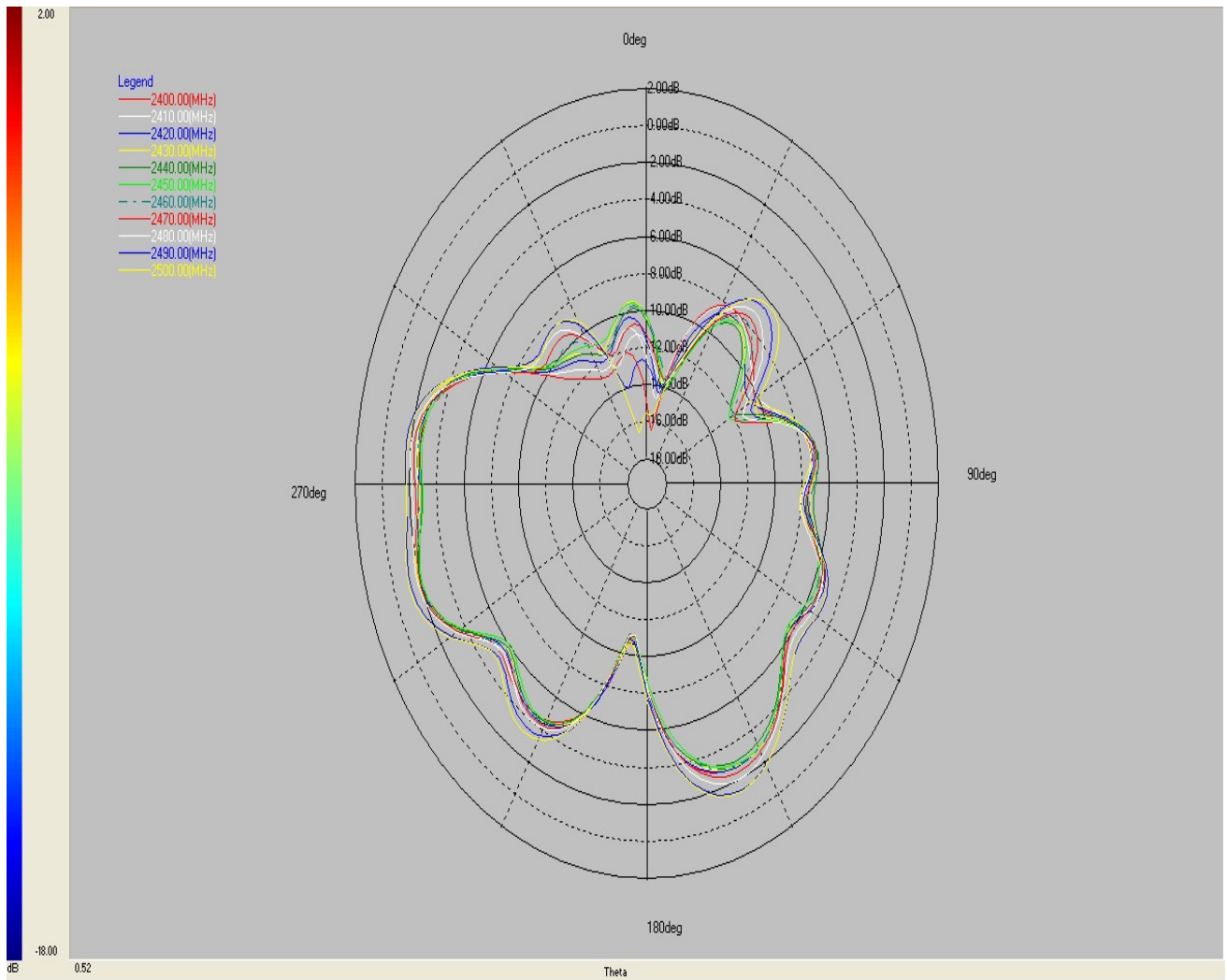
| | |
|----------------|------------------|
| Return Loss | -15 dB Max |
| Radiation | Omni-directional |
| Gain (Peak) | 1.08 dBi |
| Polarization | Linear, Vertical |
| Admitted Power | 1MW |
| Connector | Tin |
| | |
| | |

4、 Antenna gain report

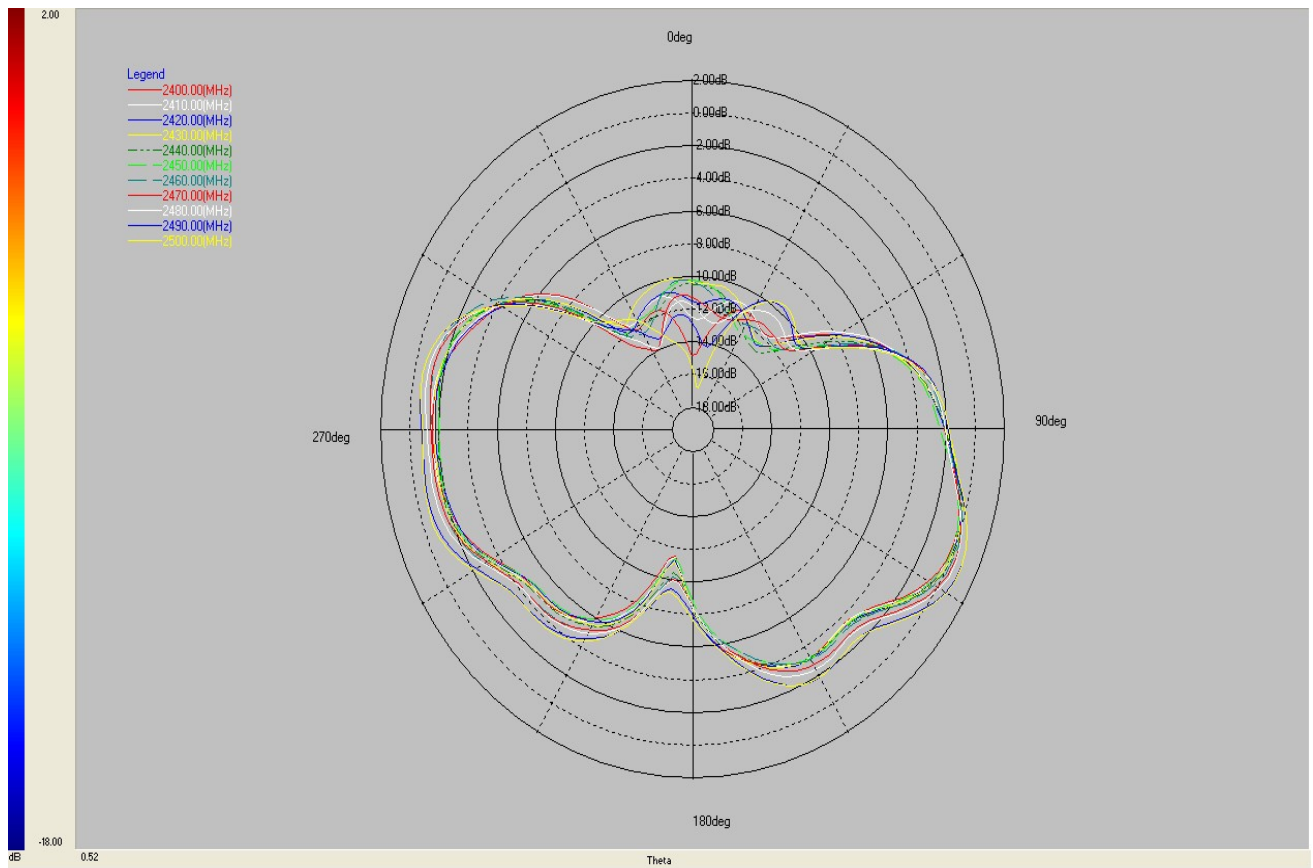
Spectrum Detector: PK Test Date : OCT. 19, 2023
 Test By: TOM Temperature : 25°C
 Test Result: PASS Humidity : 52 %
 Modulation: GFSK

| Frequency VNA (MHz) | E Total. dBi |
|---------------------|--------------|
| 2400MHz | 0.0403503 |
| 2410MHz | 0.0886264 |
| 2420MHz | 0.267381 |
| 2430MHz | 0.193012 |
| 2440MHz | 0.26366 |
| 2450MHz | 0.0723139 |
| 2460MHz | 0.36895 |
| 2470MHz | 0.551525 |
| 2480MHz | 0.640702 |
| 2490MHz | 1.05232 |
| 2500MHz | 1.08443 |
| | |
| | |

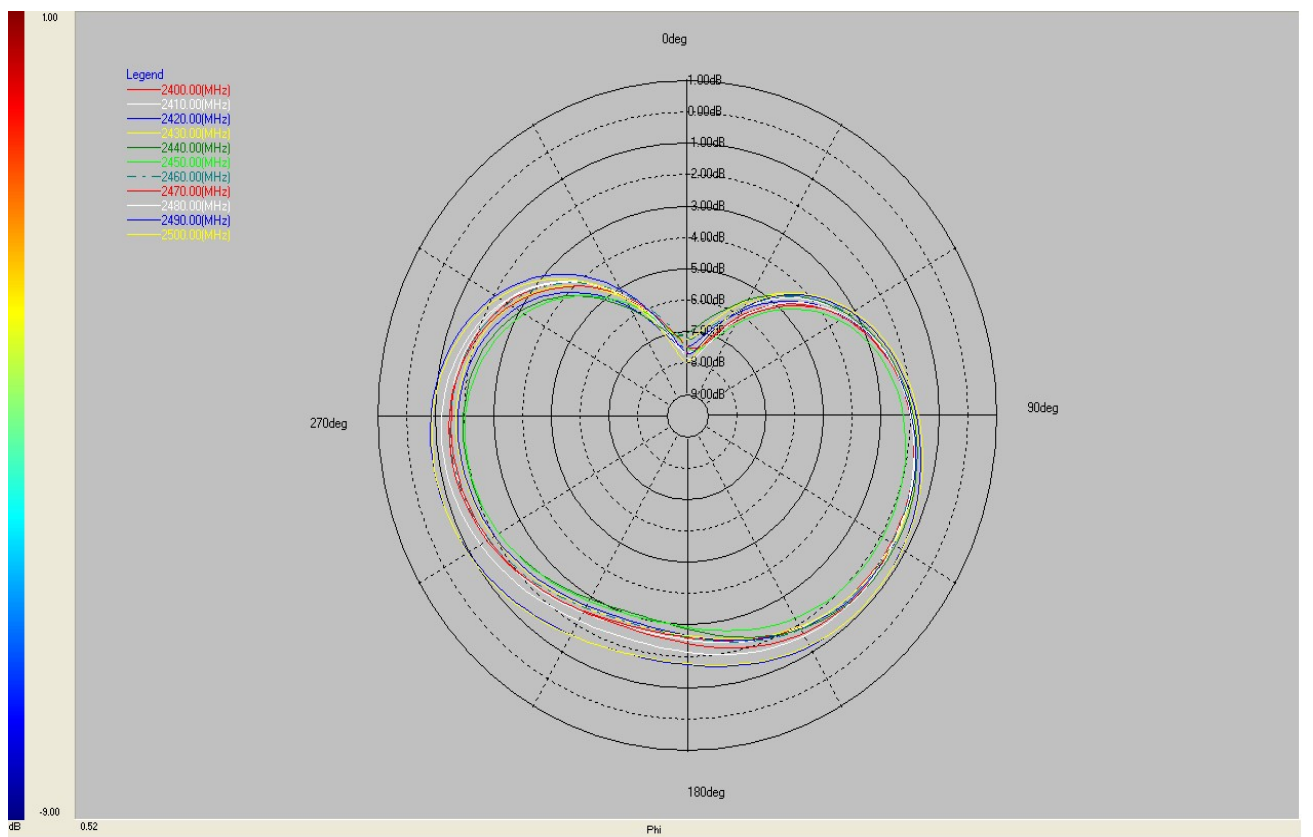
Direction map:



PHI 0°



PHI 90°



THETA 90°