

# Antenna Specification

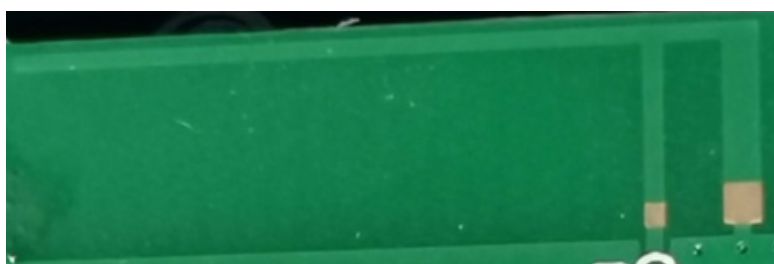
## Specifications

### Summary

| ITEM                 | SPEC.                                                                                |
|----------------------|--------------------------------------------------------------------------------------|
| Model Name           | NS052                                                                                |
|                      | Bluetooth controller                                                                 |
| Center Frequency     | 2402MHz 3.7dBi                                                                       |
|                      | 2441MHz 3.29dBi                                                                      |
|                      | 2480MHz 4.33dBi                                                                      |
| MAX. GAIN            | 4.33dBi                                                                              |
| Polarization         | Horizontal                                                                           |
| Azimuth Beam Pattern | Omni-directional                                                                     |
| Impedance            | 50 $\Omega$                                                                          |
| name of the supplier | Shenzhen YLW Technology Co., Ltd                                                     |
| Brand                |  |
| Connector            | PCB Antenna                                                                          |

AntennaPhoto&Length (mm)

20mm

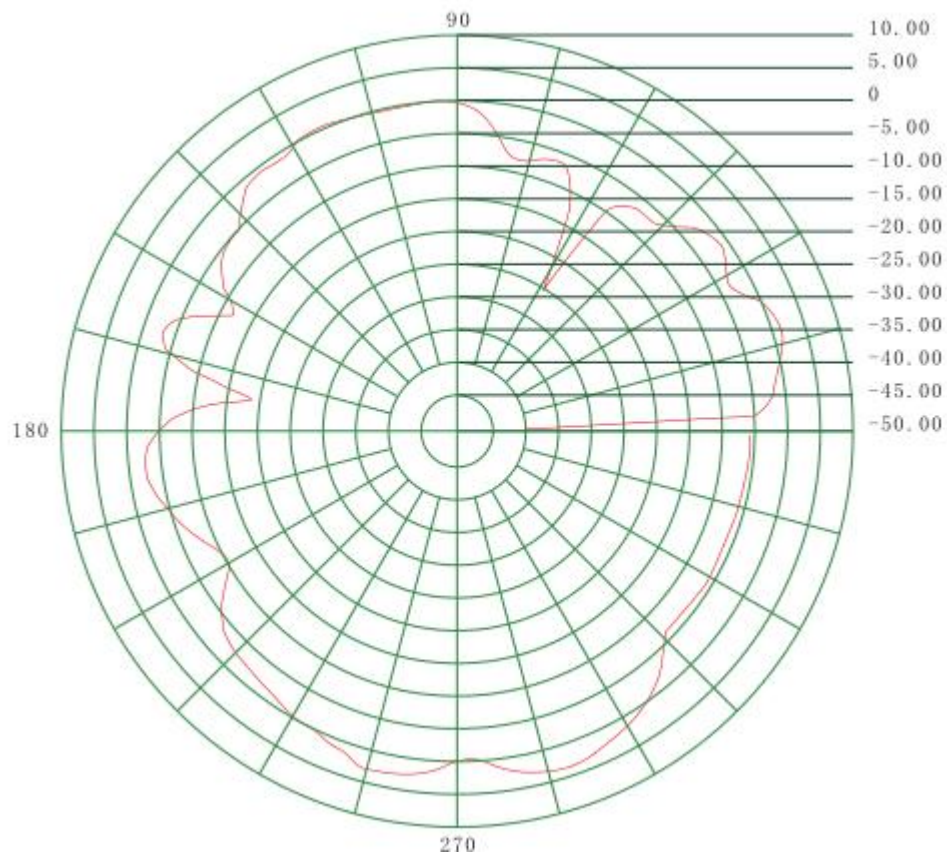


5mm

1. Main antenna : 2405MHz

1.1

Horizontal



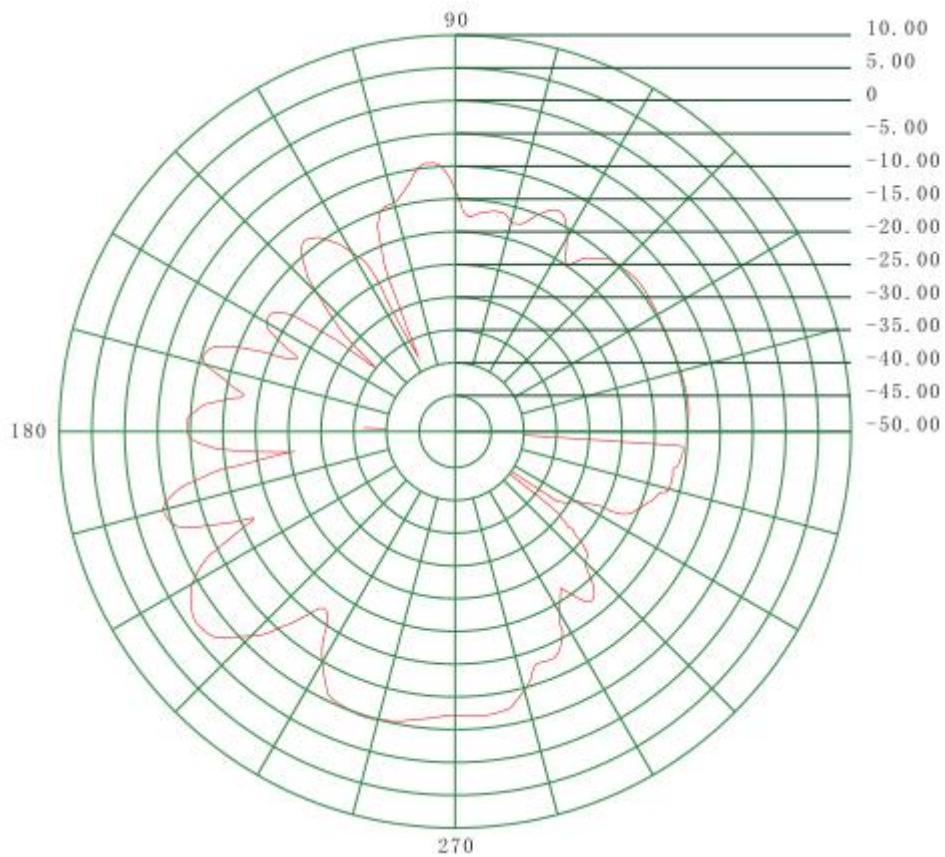
Frequency (MHZ) : 2402      Antenna Polarity: Horizontal

Maximum Value (dBi) : 3.7

Average Gain (dBi) : -1.40

Minimum Gain (dBi) : -40.20

1.2 Vertical



Frequency(MHZ) : 2402 Antenna Polarity: Vertical

Maximum Value(dBi) : -3.7

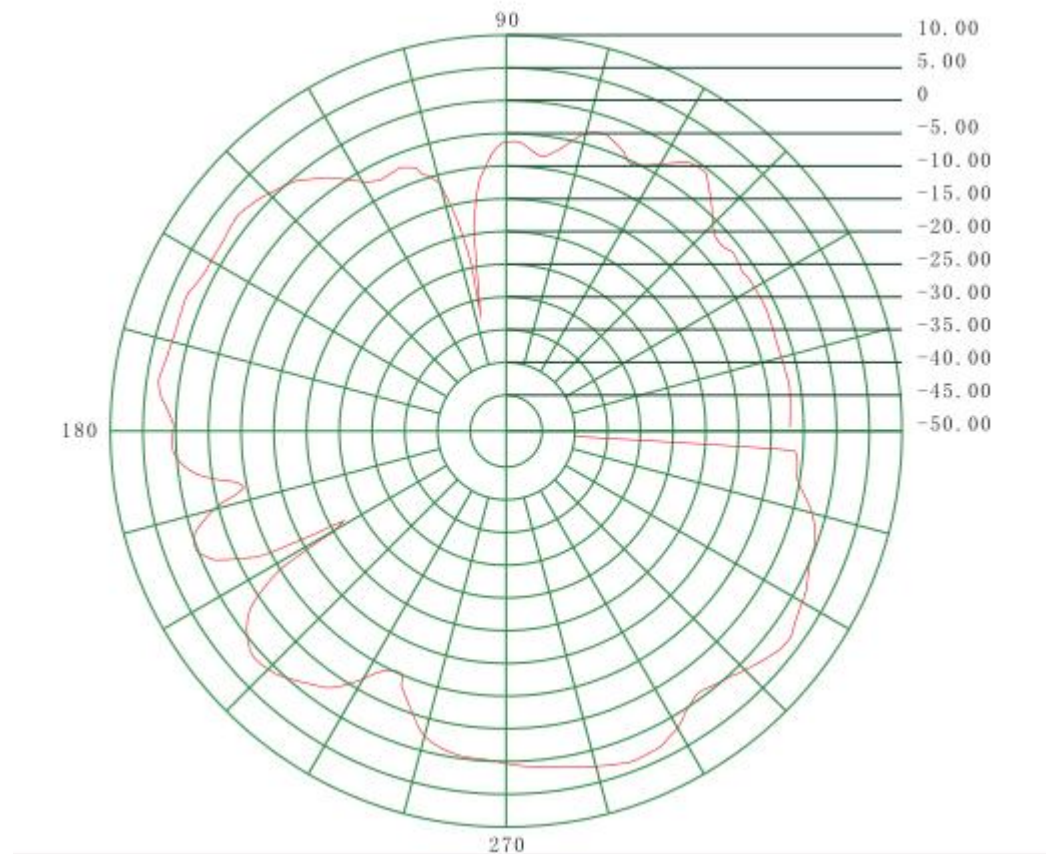
Average Gain(dBi) : -11.4

Minimum Gain(dBi) : -39.0

2. Main antenna : 2451 MHz

2.1

Horizontal



Frequency(MHZ) : 2441      Antenna Polarity: Horizontal

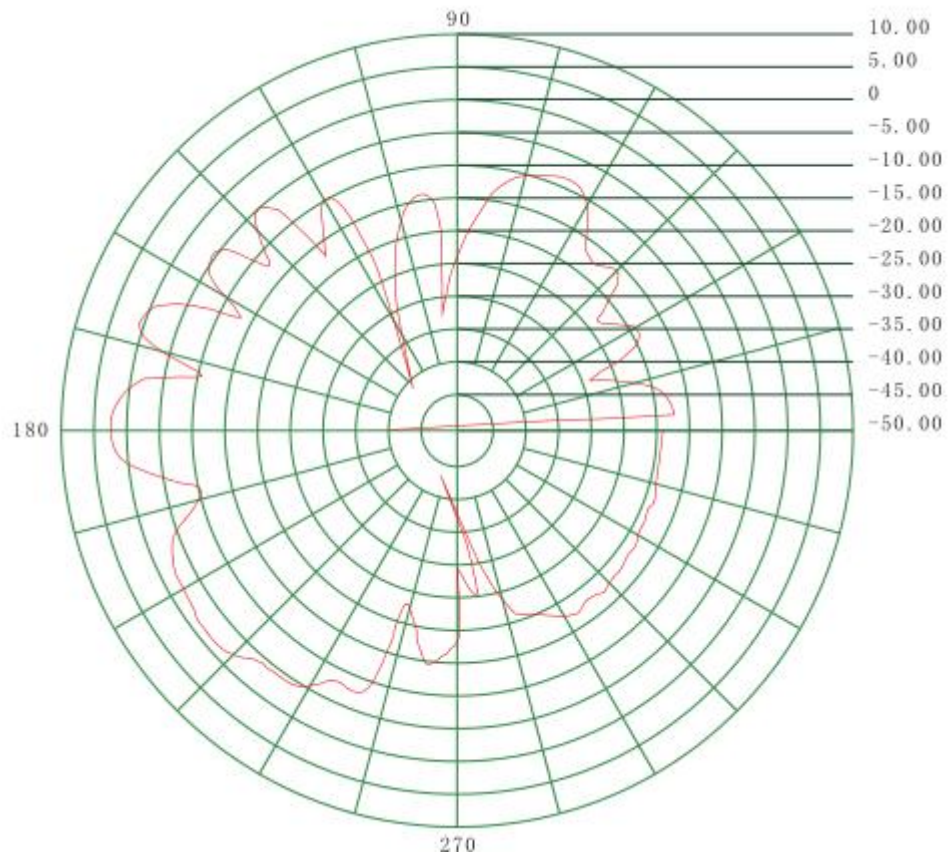
Maximum Value(dBi) : 3.29

Average Gain(dBi) : -1.40

Minimum Gain(dBi) : -38.7

2.2

Vertical



Frequency(MHZ) : 2441 Antenna Polarity: Vertical

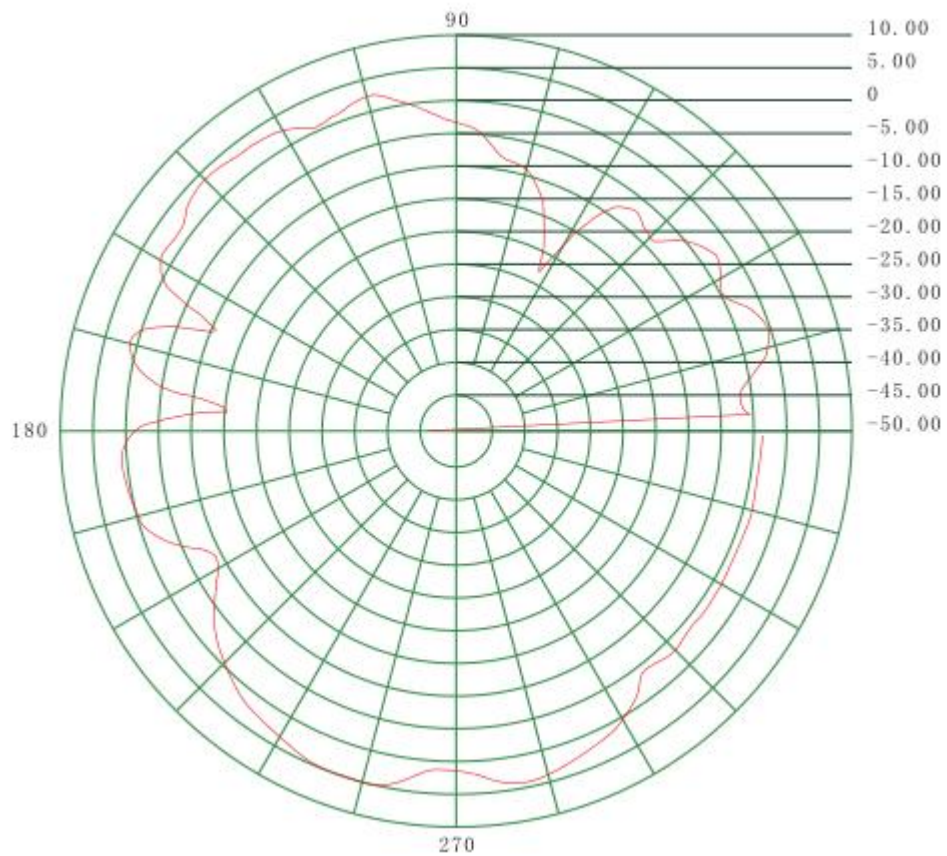
Maximum Value(dBi) : 2.8

Average Gain(dBi) : -11.4

Minimum Gain(dBi) : -59.0

3. Main antenna : 2475MHz

2.1 Horizontal



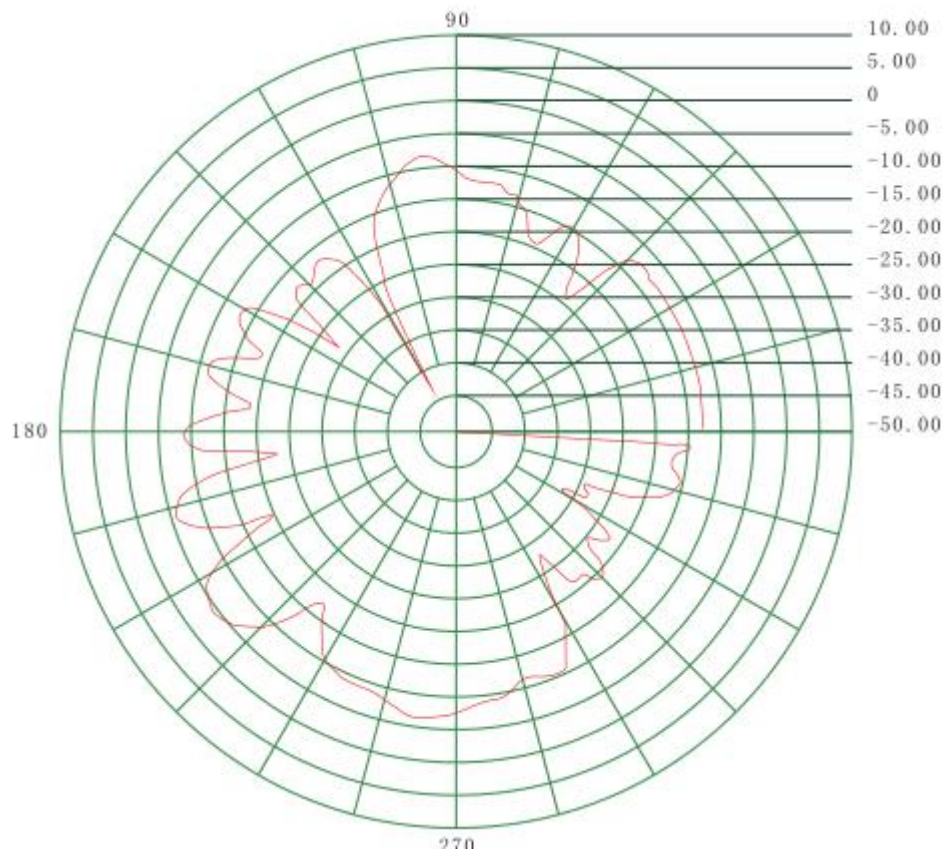
Frequency(MHZ) : 2480 Antenna Polarity: Horizontal

Maximum Value(dBi) : 4.33

Average Gain(dBi) : -2.40

Minimum Gain(dBi) : -53.0

## 2.2 Vertical



Frequency (MHZ) : 2480 Antenna Polarity: Vertical

Maximum Value (dBi) : -4.8

Average Gain (dBi) : -12.5

Minimum Gain (dBi) : -48.3