

# Antenna Report

Product Name: MS-358

Manufacture: Dingnan Jinpeng Electronic Co.,LTD  
Address: Jinpeng Industrial Park,Futian Industrial Park,Dingnan  
County Ganzhou City,Jiangxi Province

Antenna Type: PCB antenna

Antenna Size:10.74mm\*6.40mm

Project Engineer: Issac

Test Standards: ANSI/IEEE Std 149-2021

Test software being used: Emquest

Software Version:1.13

Test Result: PASS

Issued Date: 2024-08-21

| Name                | Parameter            | Method                                     | Standard no.            |
|---------------------|----------------------|--------------------------------------------|-------------------------|
| Antenna performance | Radiation efficiency | IEEE Standard Test Procedures for Antennas | ANSI/IEEE Std 149- 2021 |

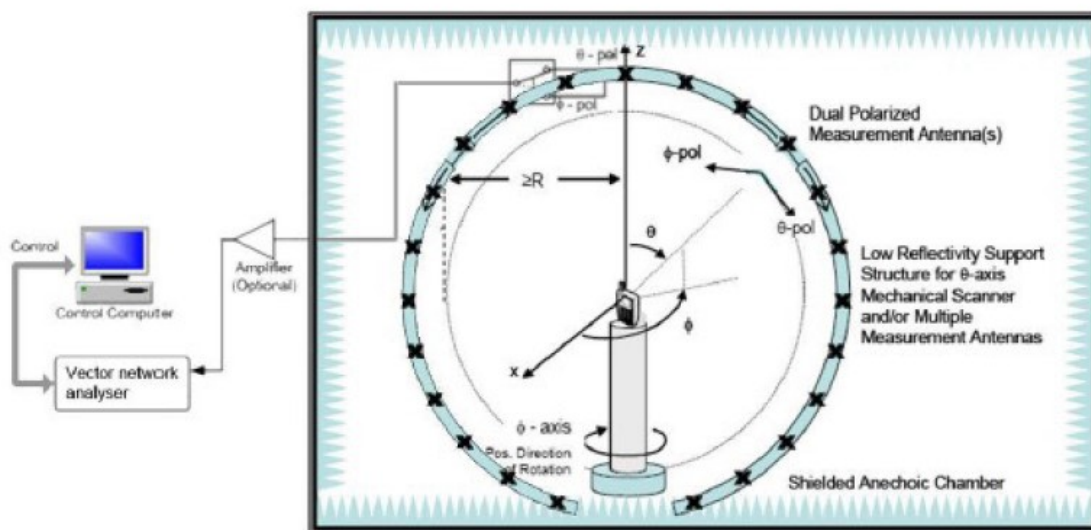
| Equipment               | Manufacturer | Mode No | Serial No  | Cal date   | Cal Due    |
|-------------------------|--------------|---------|------------|------------|------------|
| Network Analyzer        | Agilent      | E5071B  | MY48360957 | 2023/12/20 | 2024/12/20 |
| Quad-Ridge Horn Antenna | ETS          | Apr-64  | 62743      | 2023/12/20 | 2024/12/20 |
| 700 MHz-6 GHz           | ETS          | 7006    | 59957      | 2023/12/20 | 2024/12/20 |
| MAPS Controller         |              |         |            |            |            |
| Switch ControlSystem    | ETS          | 7001    | MY42001152 | 2023/12/20 | 2024/12/20 |

## 2 Test Temperature and Humidity

Temperature: 23.2°C

Humidity: 65%

## Test Setup

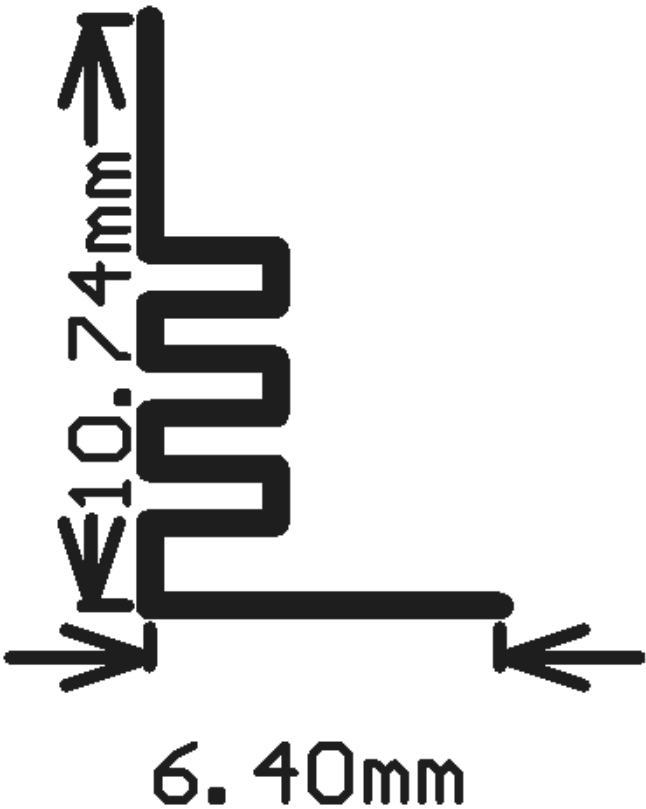


|                |                                                     |
|----------------|-----------------------------------------------------|
| <b>Name</b>    | Shenzhen RFI-LAB Communication Technology Co.,Ltd.  |
| <b>Address</b> | 10/F A, Lingyun Bld, Liufang Rd, Baoan District, SZ |
| <b>Tel</b>     | 13682621346                                         |
| <b>E-mail</b>  | rfi-lab@tech-now.com                                |

# Antenna Report

## Specifications

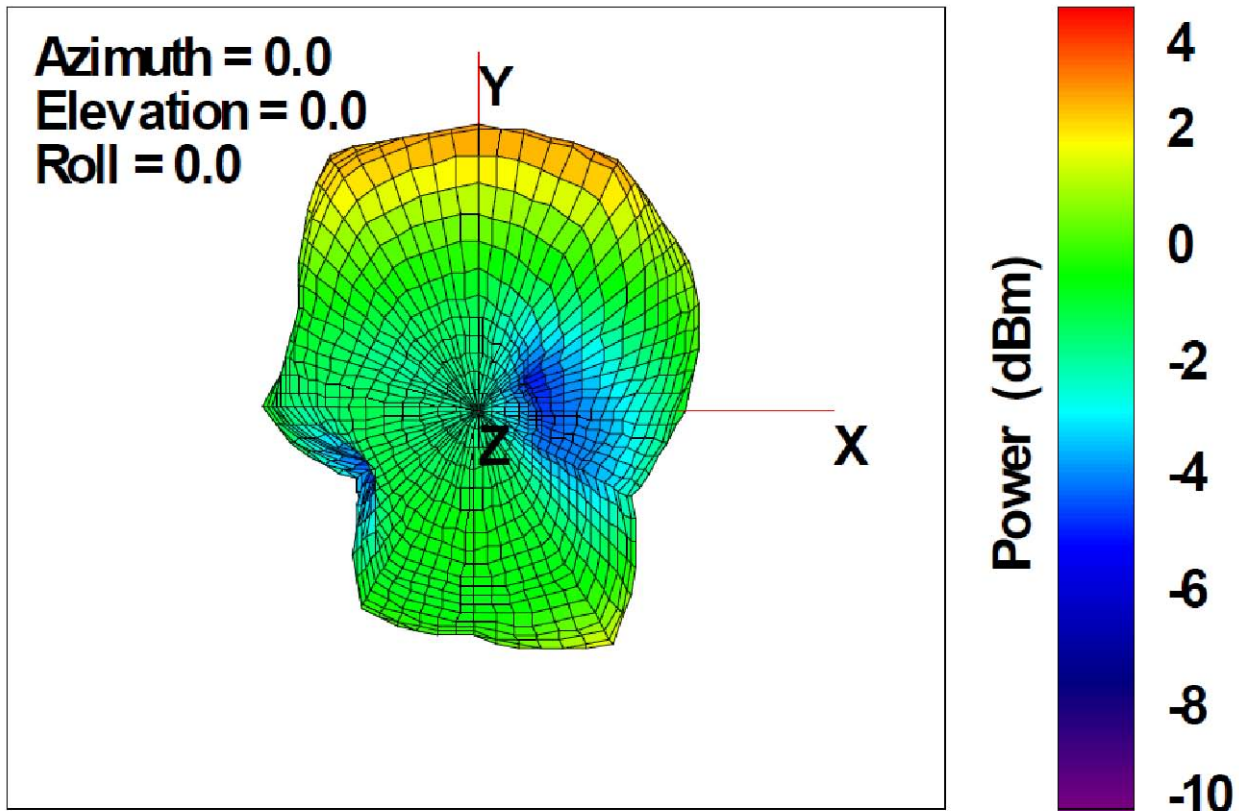
| Summary | ITEM                 | SPEC             |
|---------|----------------------|------------------|
|         | Model Name ∴ MS-358  |                  |
|         | Center Frequency     | 2402MHz -2.64dBi |
|         |                      | 2440MHz -1.89dBi |
|         |                      | 2480MHz -1.66dBi |
|         | MAX. GAIN            | -1.66 dBi        |
|         | Polarization         | Horizontal       |
|         | Azimuth Beam Pattern | Omni directional |
|         | Impedance            | 50Ω              |



1. Main antenna : 2402MHz

1 . 1 H o r i z o n t a l

## Total EIRP, Top View



Frequency (MHz): 2402    Antenna Polarity: Horizontal

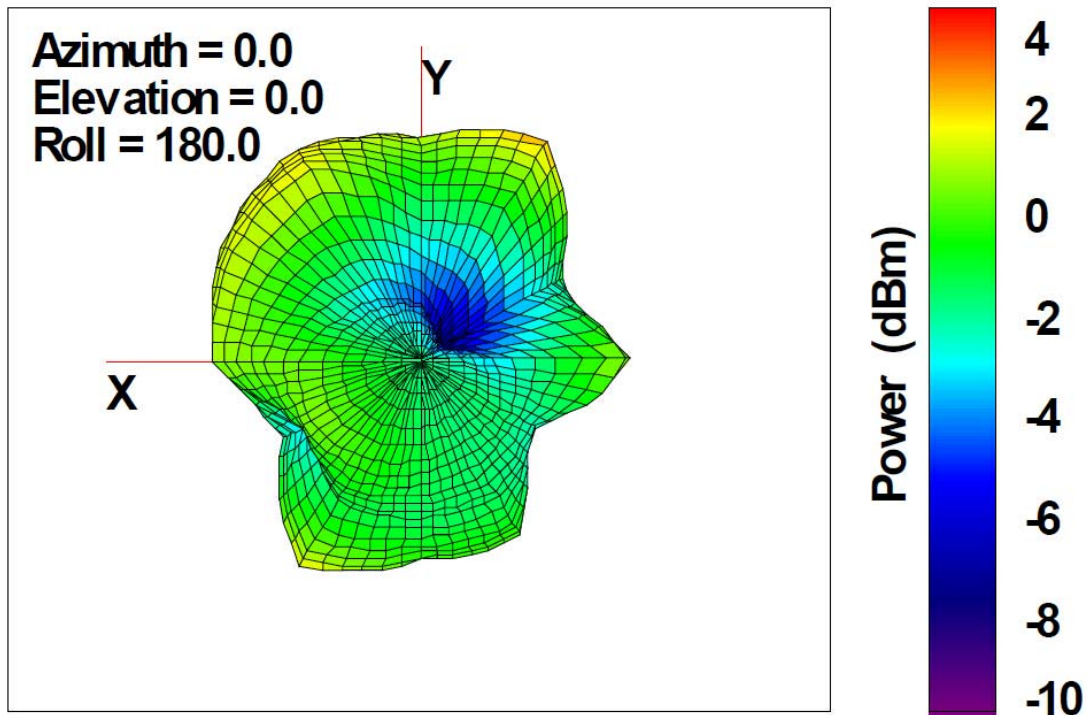
Maximum Value (dBi): -2.64

Average Gain (dBi) : - 9.77

Minimum Gain (dBi):-30.67

## 1.2.Vertical

### Total EIRP, Bottom View



Frequency (MHz ): 2402 Antenna Polarity: Vertical

Maximum Value (dBi): -7.09

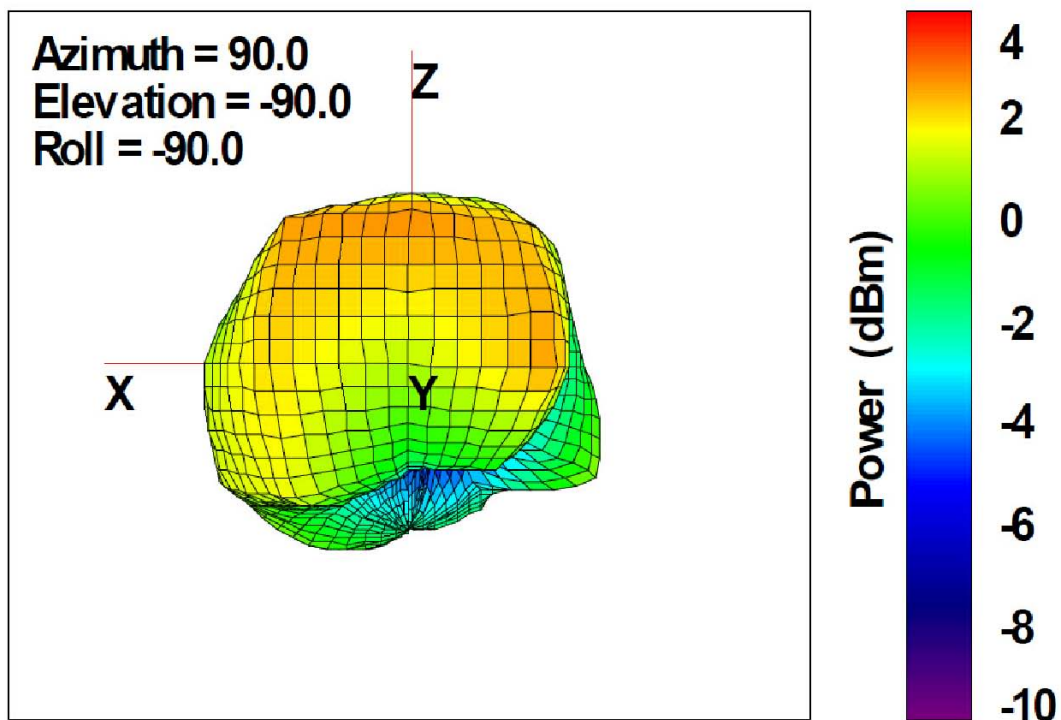
Average Gain (dBi): -13.51

Minimum Gain dBi: -24.18

2. Main antenna : 2440MHz

2.1 Horizontal

## Total EIRP, Right Side View



Frequency (MHz): 2440 Antenna Polarity:Horizontal

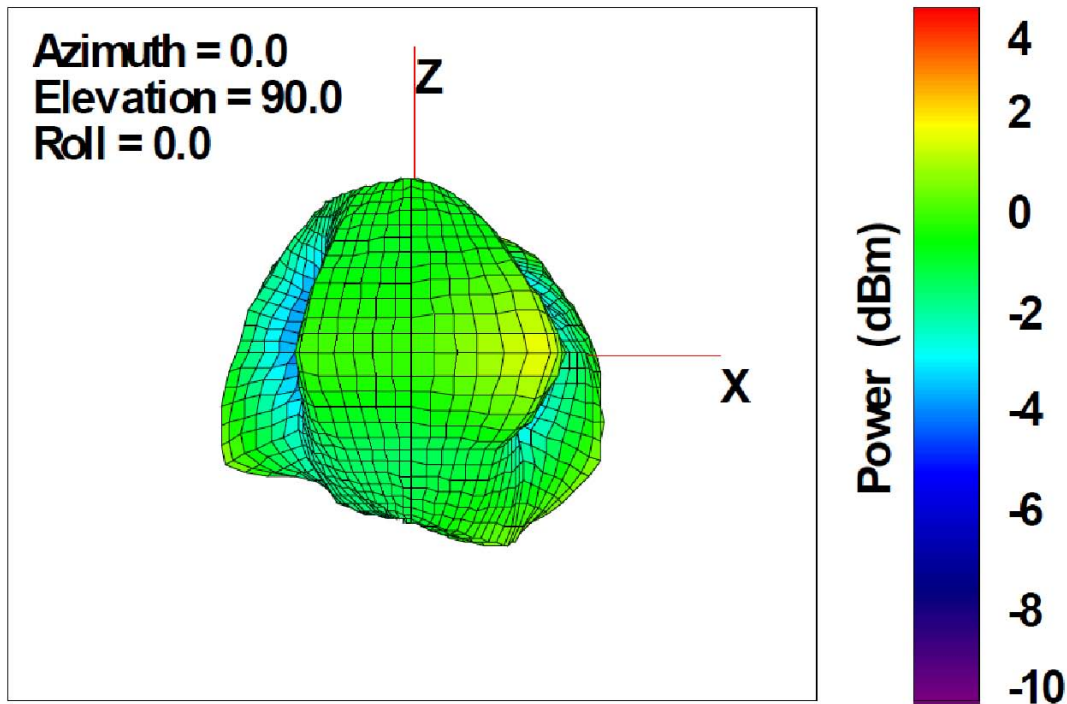
Maximum Value (dBi): -1.89

Average Gain (dBi): - 8.87

Minimum Gain( dBi):- 35.91

## 2.2 Vertical

### Total EIRP, Left Side View



Frequency (MHz): 2440    Antenna Polarity: Vertical

Maximum Value (dBi): -4.7

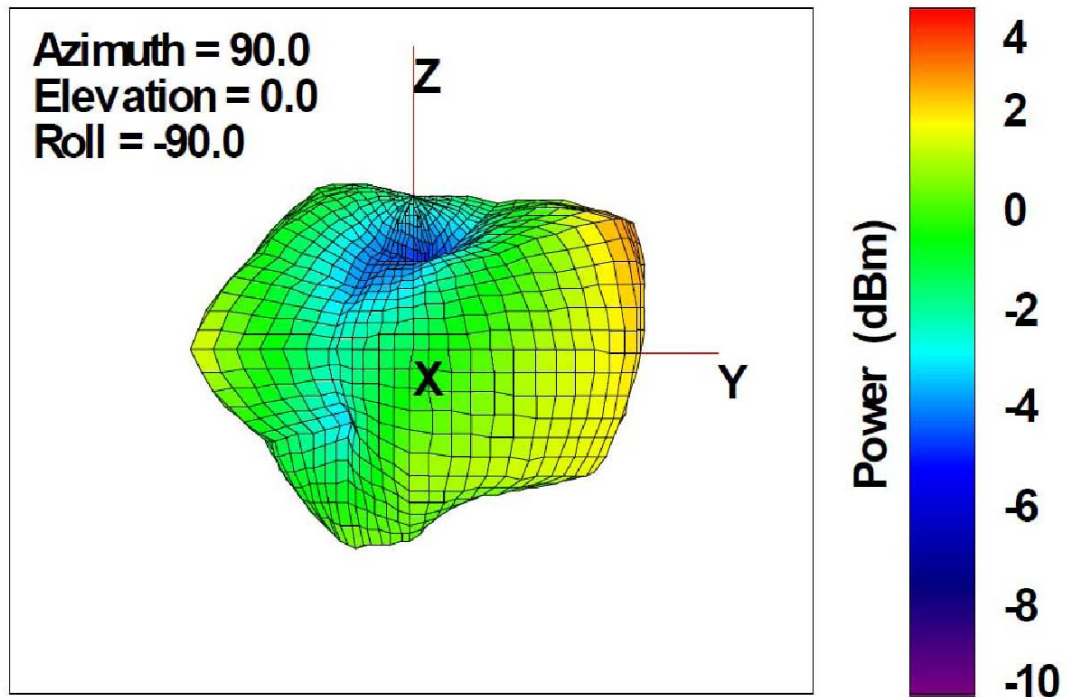
Average Gain( dBi): -11.66

Minimum Gain (dBi) : -27.82

3. Main antenna : 2480MHz

2.1 Horizontal

## Total EIRP, Front View



Frequency (MHz): 2480 Antenna Polarity: Horizontal

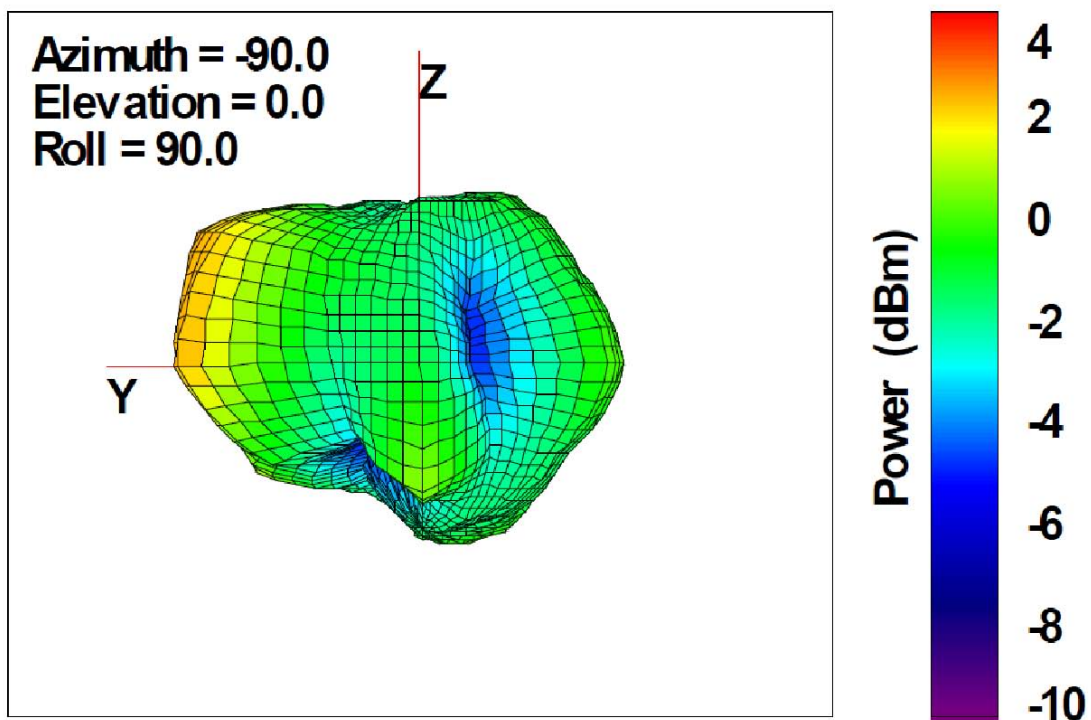
Maximum Value (dBi) : -1.66

Average Gain (dBi) : - 7.99

Minimum Gain (dBi) : - 24.74

## 2.2 Vertical

### Total EIRP, Back View



Frequency (MHz) : 2480 Antenna Polarity: Vertical

Maximum Value (dBi): -3.15

Average Gain (dBi): - 10.56

Minimum Gain (dBi): - 29.48