

# Approval Sheet

Customer : 美商定誼

Project Name : DT302RP\_V2\_Trimble

Customer P/N : 27-302-720006

P/N : AJ6F1J-B0003

Product Description : Wifi main antenna  
MHF-4 / RF1.13\_330mm\_Black

Issue Date : 2023 / 10 / 06

Reversion : A

| Customer<br>Approved | Anjie<br>Approved |
|----------------------|-------------------|
|                      |                   |

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## 1. Specification

- . Product Number: AJ6F1J-B0003
- . Version : 1.0
- . Model Name : DT302RP\_V2\_Trimble

## Electrical Characteristics

- . Frequency (MHz) : 2400-2500MHz / 5150-7125MHz
- . S.W.R. :  $\leq$  2.0 / 3.0
- . Efficiency (dB): > -4 / -5
- . Peak Gain : 1.9 / 2.9 dBi
- . Impedance : 50 ohm
- . Polarization : Linear

## Mechanical Characteristics

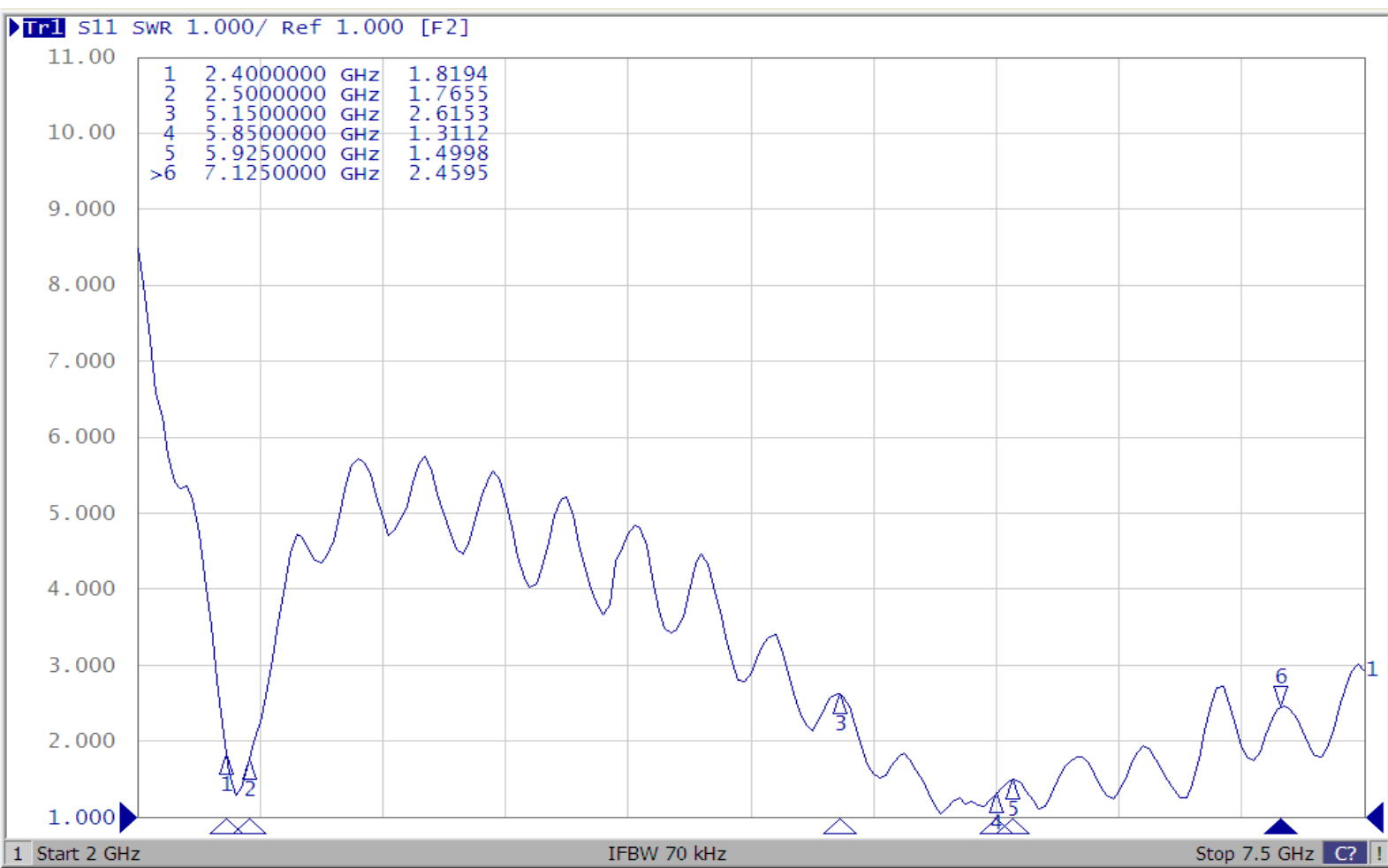
- . Material : FPC
- . Cable : RF 1.13
- . Connector : MHF-4
- . Color : Black
- . Material : RoHS 2011/65/EU

with IEC 62321:2008 Method

## Environmental Condition

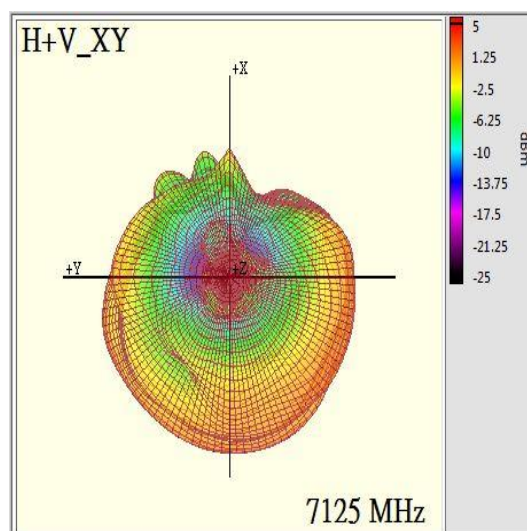
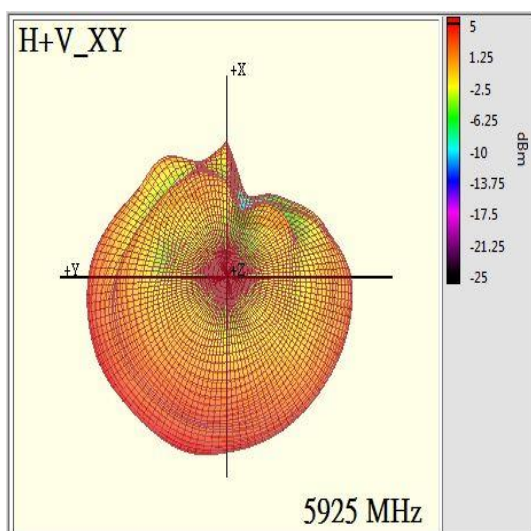
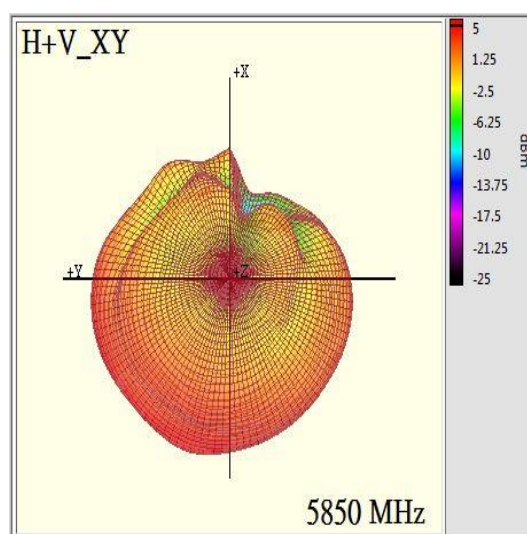
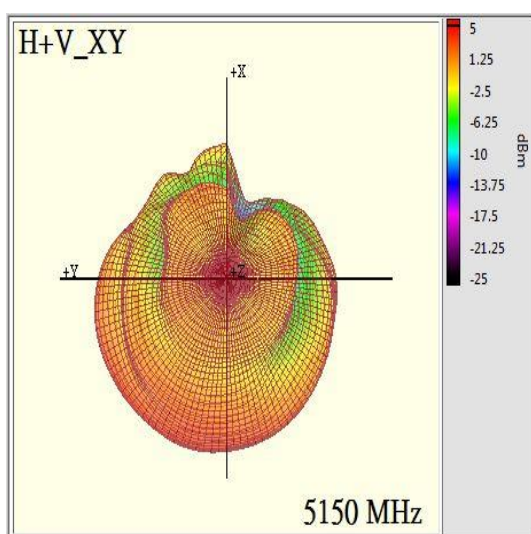
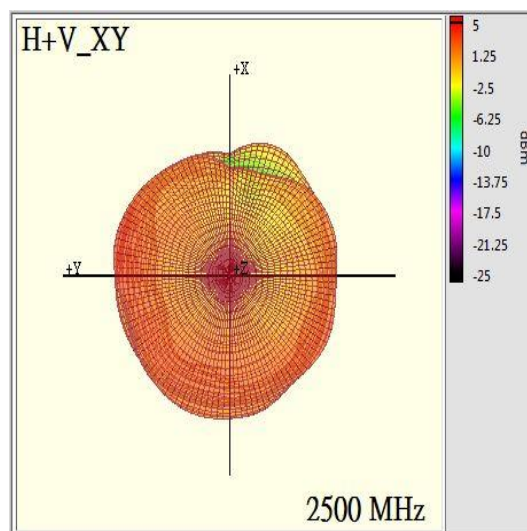
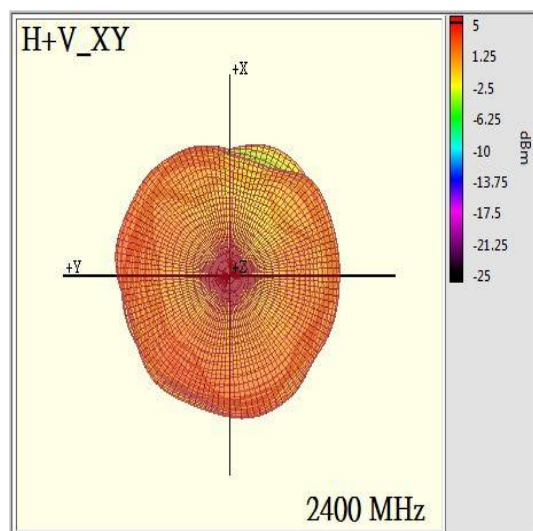
- . Operation Temperature : -30 ~ +60 °C
- . Storage Temperature : -40 ~ +85 °C

## 2.1 S Parameter Test S.W.R. Test Data



### 3. Antenna Gain Test

#### 3.1 Antenna Radiation Pattern



### 3. Antenna Gain Test

#### 3.2 Gain and Efficiency Test Data

| Frequency Band<br>(MHz) |      | Efficiency (dB) | Peak Gain (dBi) |
|-------------------------|------|-----------------|-----------------|
|                         |      |                 |                 |
| 802.11b/g/n             | 2400 | -3.9            | 1.0             |
|                         | 2450 | -3.6            | 1.9             |
|                         | 2500 | -3.6            | 1.8             |
|                         |      |                 |                 |
| WiFi 6<br>802.11a/ac/ax | 5150 | -4.1            | 1.0             |
|                         | 5250 | -3.6            | 1.3             |
|                         | 5350 | -3.2            | 1.6             |
|                         | 5470 | -3.5            | 1.6             |
|                         | 5600 | -3.0            | 2.2             |
|                         | 5725 | -2.3            | 2.3             |
|                         | 5785 | -2.3            | 2.8             |
|                         | 5800 | -2.5            | 2.9             |
|                         | 5850 | -2.7            | 2.8             |
|                         |      |                 |                 |
| WiFi 6E<br>802.11ac/ax  | 5925 | -3.2            | 2.1             |
|                         | 6175 | -3.8            | 2.0             |
|                         | 6425 | -4.2            | 1.1             |
|                         | 6525 | -4.7            | 0.2             |
|                         | 6700 | -4.9            | 0.2             |
|                         | 6875 | -4.8            | -0.7            |
|                         | 7000 | -4.5            | -0.1            |
|                         | 7125 | -4.8            | -0.2            |

# 4. Mechanical Drawing / Dimension / Layout

