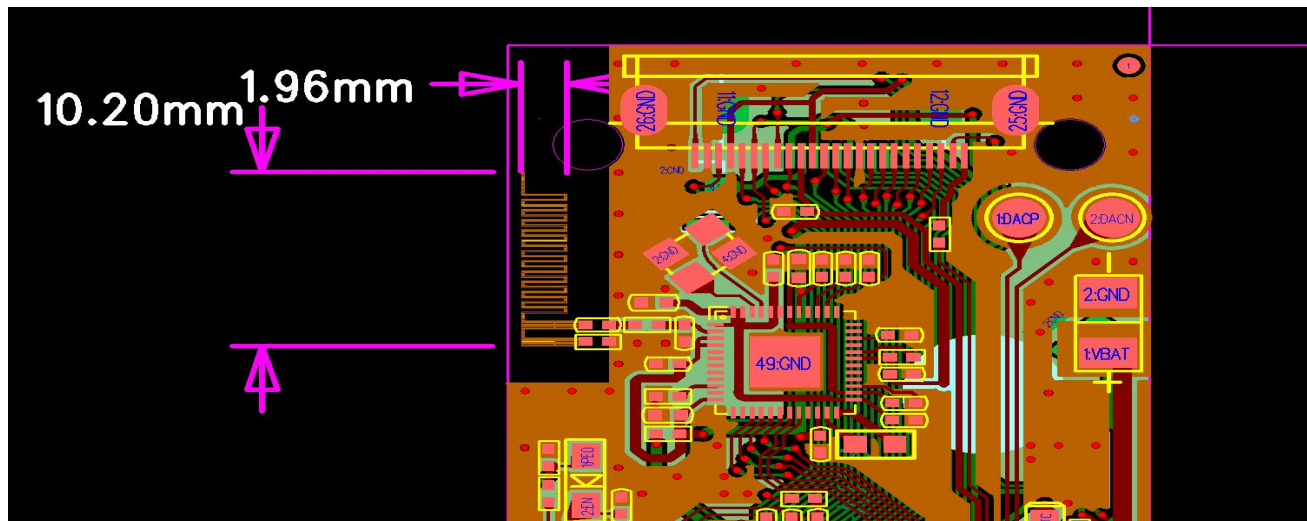


## Antenna Test Report

|                     |              |
|---------------------|--------------|
| Customer            |              |
| Project             |              |
| Antenna Revision    |              |
| Product Description | PCB Antenna  |
| Product No          |              |
| DATE                | 2025. 04. 12 |

# ***Product Overview & Dimension***

## **Front**



# Purpose

This report is to measure the performance of BT antenna for S058  
.The antenna operating frequency at 2.4~2.5GHz, All test data are showed as below.

## ***Content***

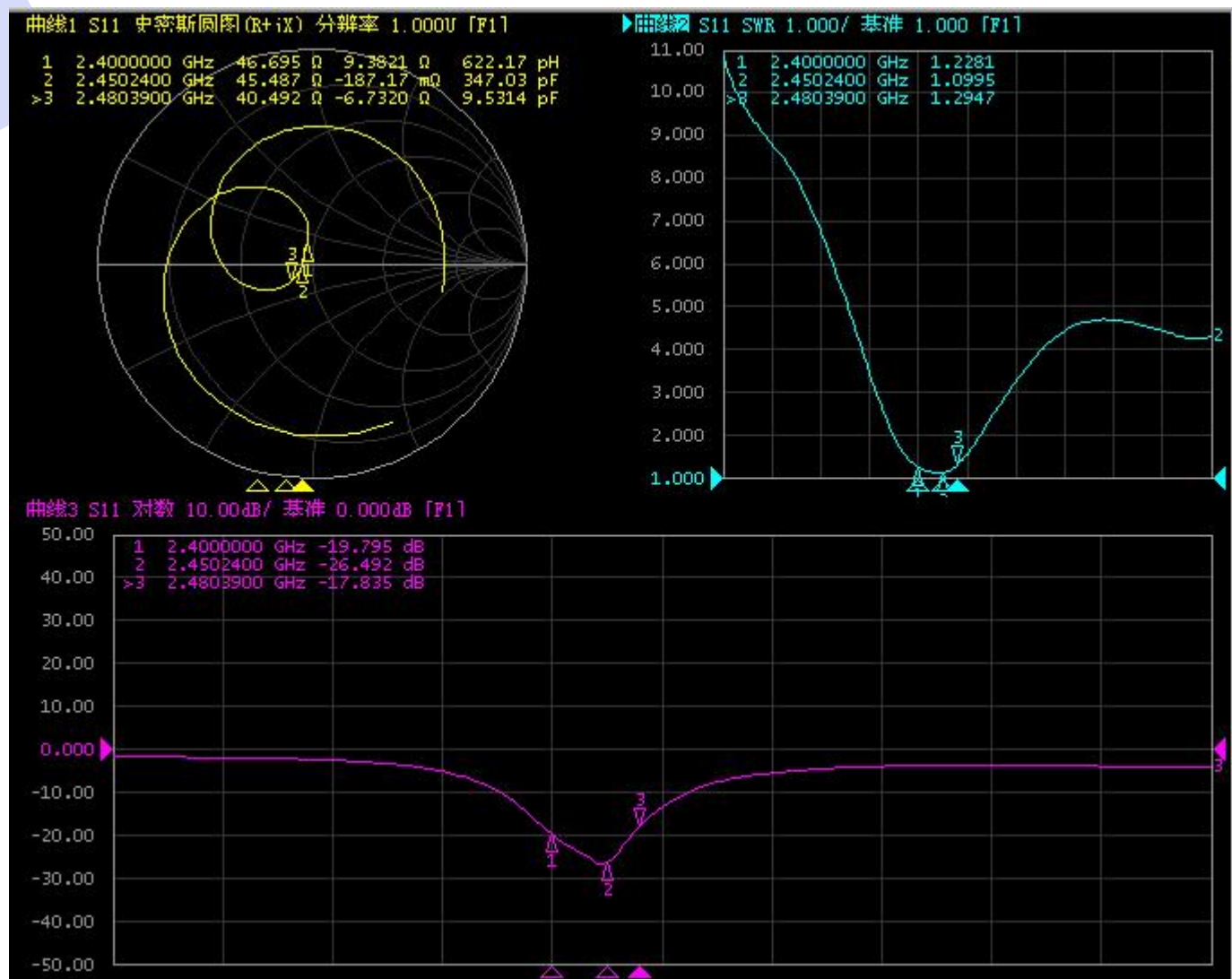
1. Product Overview & Dimension
2. Test system
3. Antenna Matching Network
4. Test Result
  - 4.1 S11 Parameter
  - 4.2 Test coordinate
  - 4.3 2D Pattern
  - 4.4 OTA Data
  - 4.5 BT Boot measured
5. Antenna Assembly & environmental processing

## 2. Test System

| Sequence Number   | Test Item         | equipment                     |
|-------------------|-------------------|-------------------------------|
| S parameter       | VSWR              | Agilent 5071C & Agilent 5062A |
| OTA Test          | TRP&TIS           | CMW500 & CMW270<br>ETS&SATIMO |
| Gain & Efficiency | Gain & Efficiency | ETS&SATIMO<br>Agilent 5071C   |

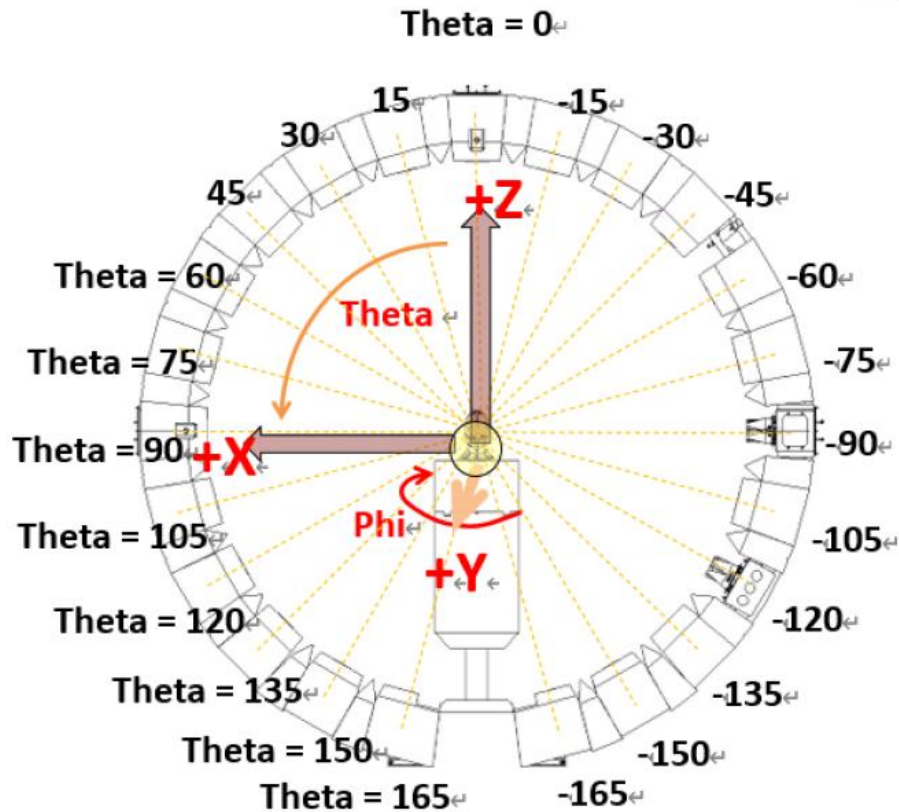


# S11—(BT ANT)



## Test Result

## Sample status & coordinates



# Test Result

Gain & Efficiency—**ANT**

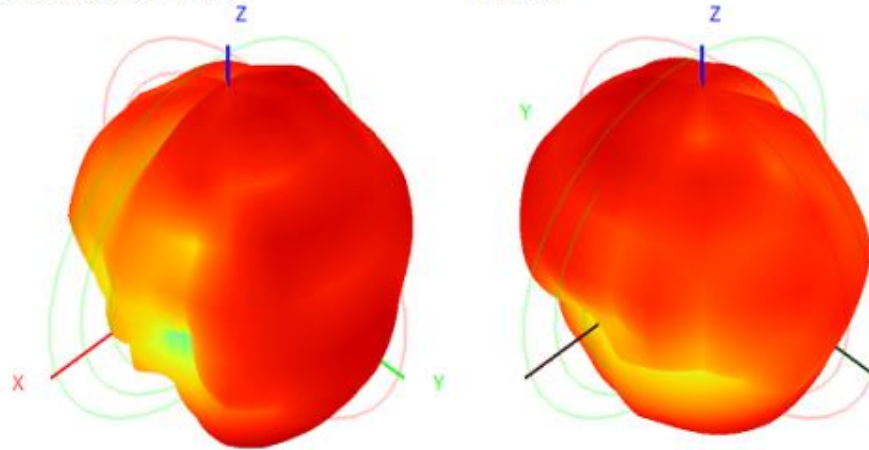
| Frequency (MHz) | Efficiency (%) | Peak GAIN (dBi) |
|-----------------|----------------|-----------------|
| 2400            | 36.33          | 1.84            |
| 2450            | 38.99          | 2.44            |
| 2500            | 36.17          | 1.48            |

# Test Result

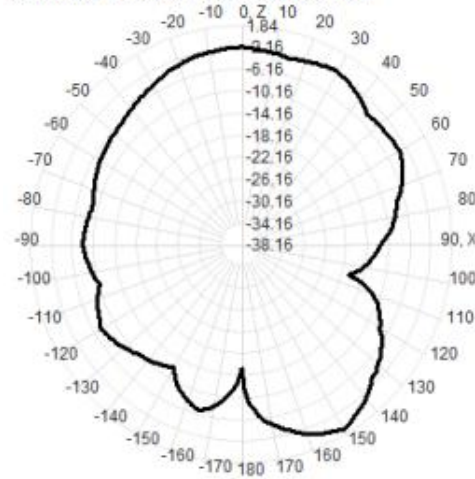
2D&3D — ANT

2400.0MHz H+V, Eff: 36.3%

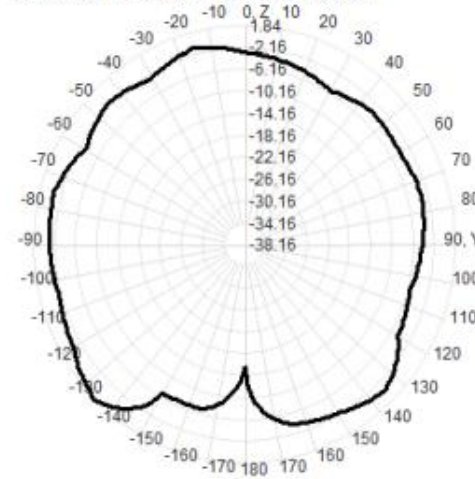
Back View



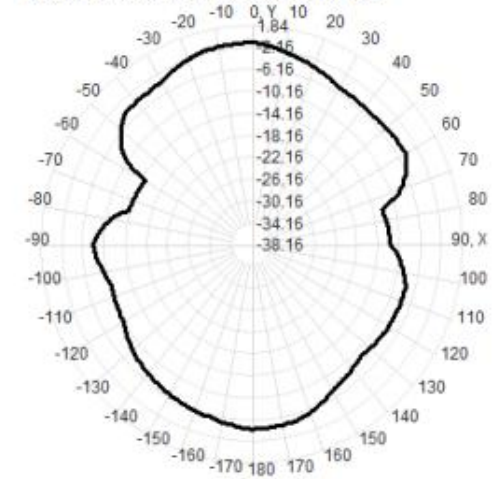
2400.0MHz Total(E1-XZ), Max= 0.52dBi



2400.0MHz Total(E2-YZ), Max= 1.84dBi



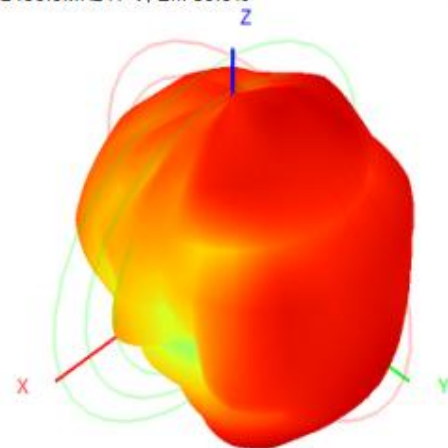
Total(H-XY), Max= -1.25dBi, CirD=13.49



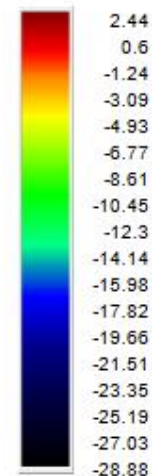
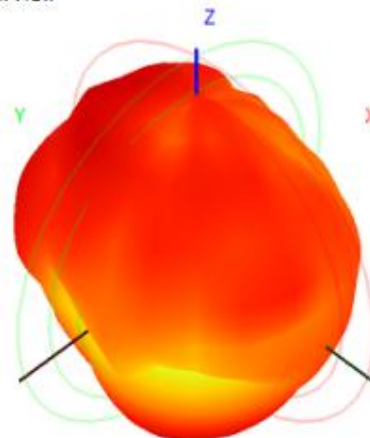
# Test Result

2D&3D — ANT

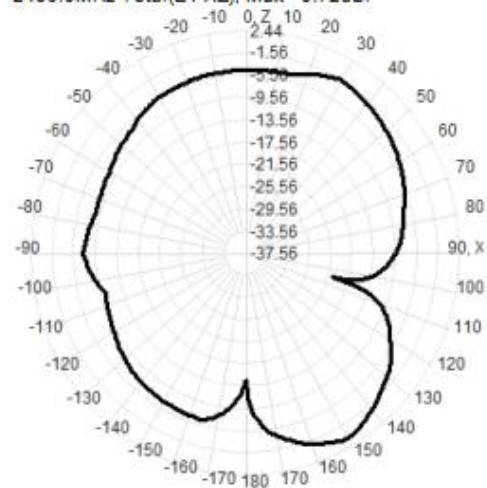
2450.0MHz H+V, Eff: 39.0%



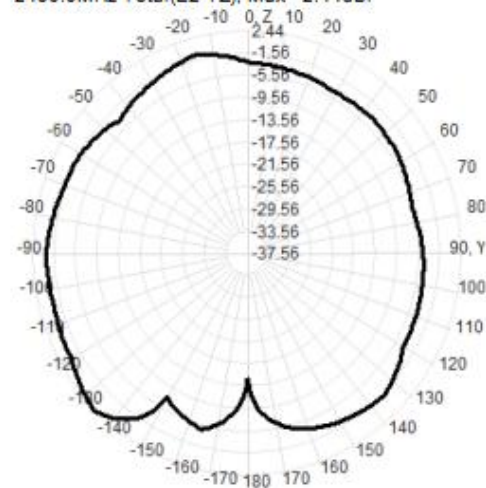
Back View



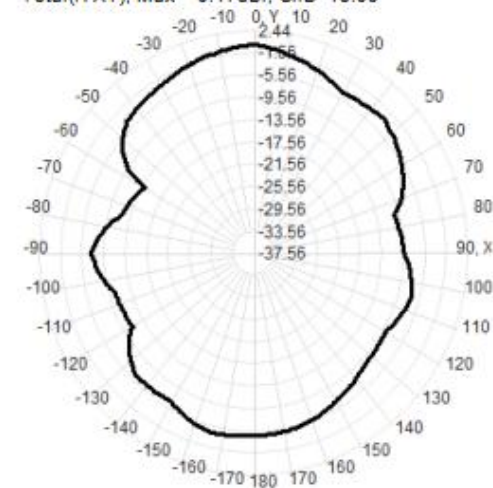
2450.0MHz Total(E1-XZ), Max= 0.72dBi



2450.0MHz Total(E2-YZ), Max= 2.44dBi



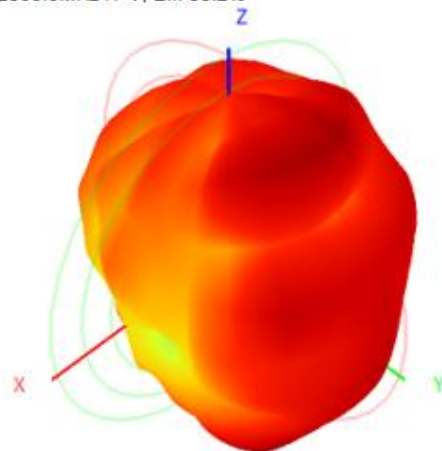
Total(H-XY), Max= -0.17dBi, CirD=13.99



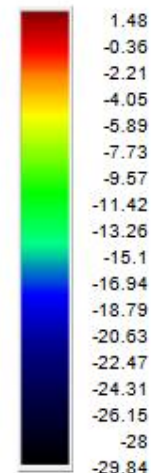
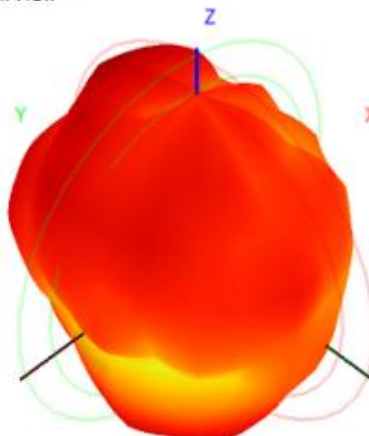
# Test Result

2D&3D—ANT

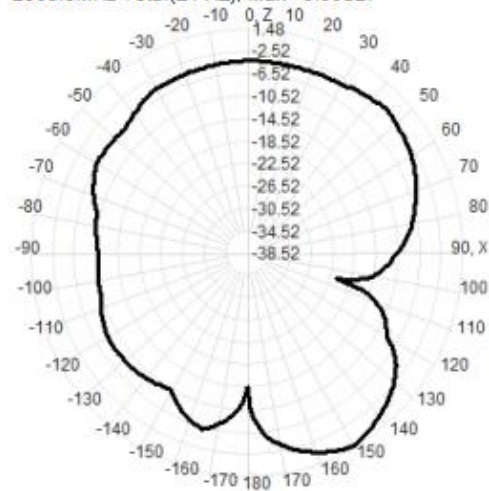
2500.0MHz H+V, Eff: 36.2%



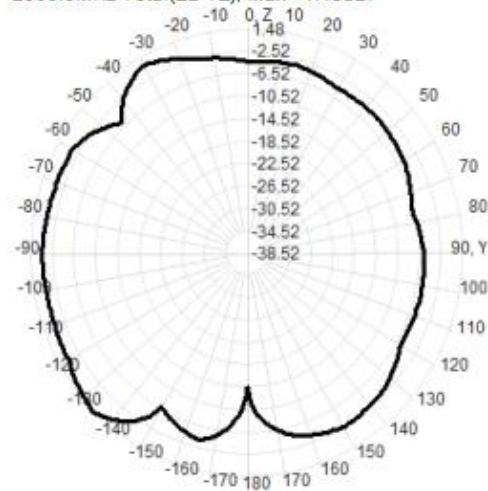
Back View



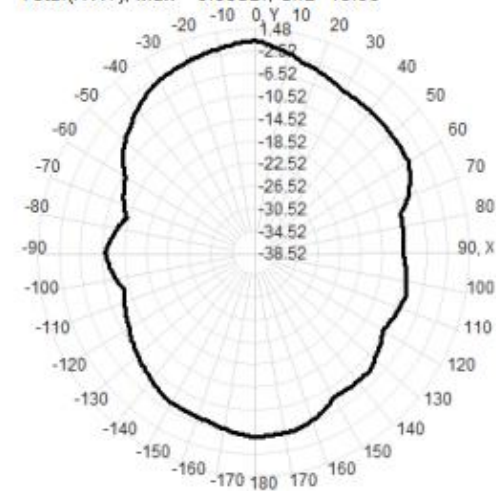
2500.0MHz Total(E1-XZ), Max= 0.99dBi

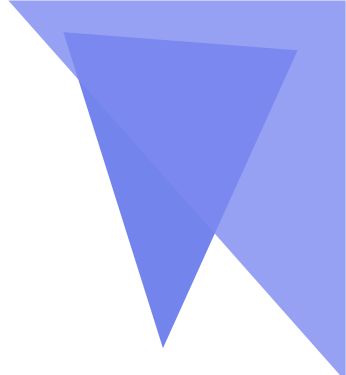


2500.0MHz Total(E2-YZ), Max= 1.48dBi



Total(H-XY), Max= -0.68dBi, CirD=13.56





# ***Thanks for your comment!***

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- ◆ **Shenzhen Hetuo Technology Co., Ltd.**
  - ◆ **1202B, Building C6, Hengfeng Industrial City, Xixiang, Bao'an District,  
Shenzhen, China**
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