

## CW-WZ-0081

### 2.4/5.8G External Antenna

#### Key Features

Frequency: 2.4-2.5G/5.15-5.85G

I-PEX Connector

Screw Mount

Dimensions 46\*16 mm



## 1. Antenna Electrical Characteristics

|                      |                     |
|----------------------|---------------------|
| Band (MHz)           |                     |
| Frequency (MHz)      | 2.4-2.5G/5.15-5.85G |
| VSWR                 | 2:1                 |
| Efficiency (%)       | 65.45%/62%          |
| Peak Gain (dBi)      | 3.23/3.39           |
| Impedance (Ohm)      | 50                  |
| Polarisation         | Vertical            |
| Max. Input Power (W) | 10                  |
| Connector Type       | I-PEX               |

## 2. Material and environmental characteristics

|                            |            |
|----------------------------|------------|
| Inner structure            | PCB        |
| Material of Plastic        | ABS        |
| Cable Type                 | RF1.13     |
| Connector Type             | I-PEX      |
| Dimensions (mm)            | 46*16MM    |
| Antenna color              | Black      |
| Operation Temperature      | -40 to +80 |
| Storage Temperature        | -40 to +80 |
| Antenna Storage life(year) | 10         |
| Substance Compliance       | ROHS       |



## 4. Antenna test parameters

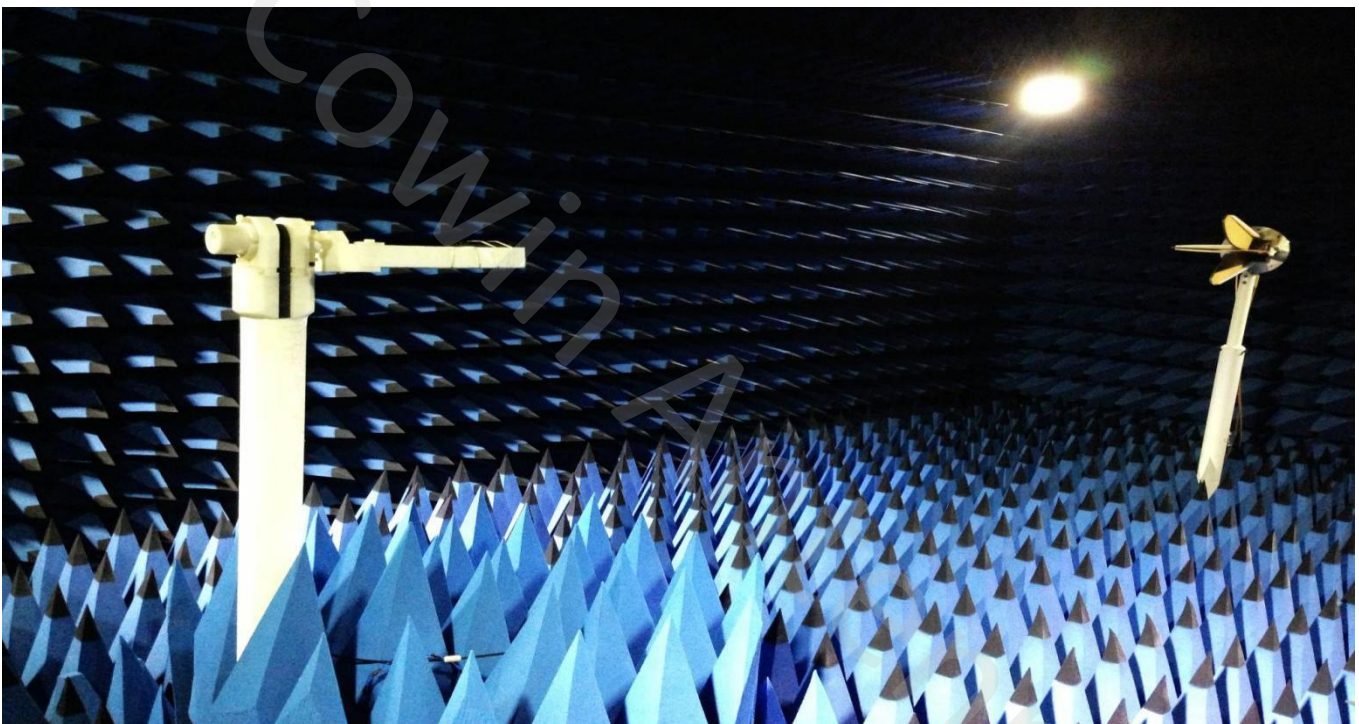
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

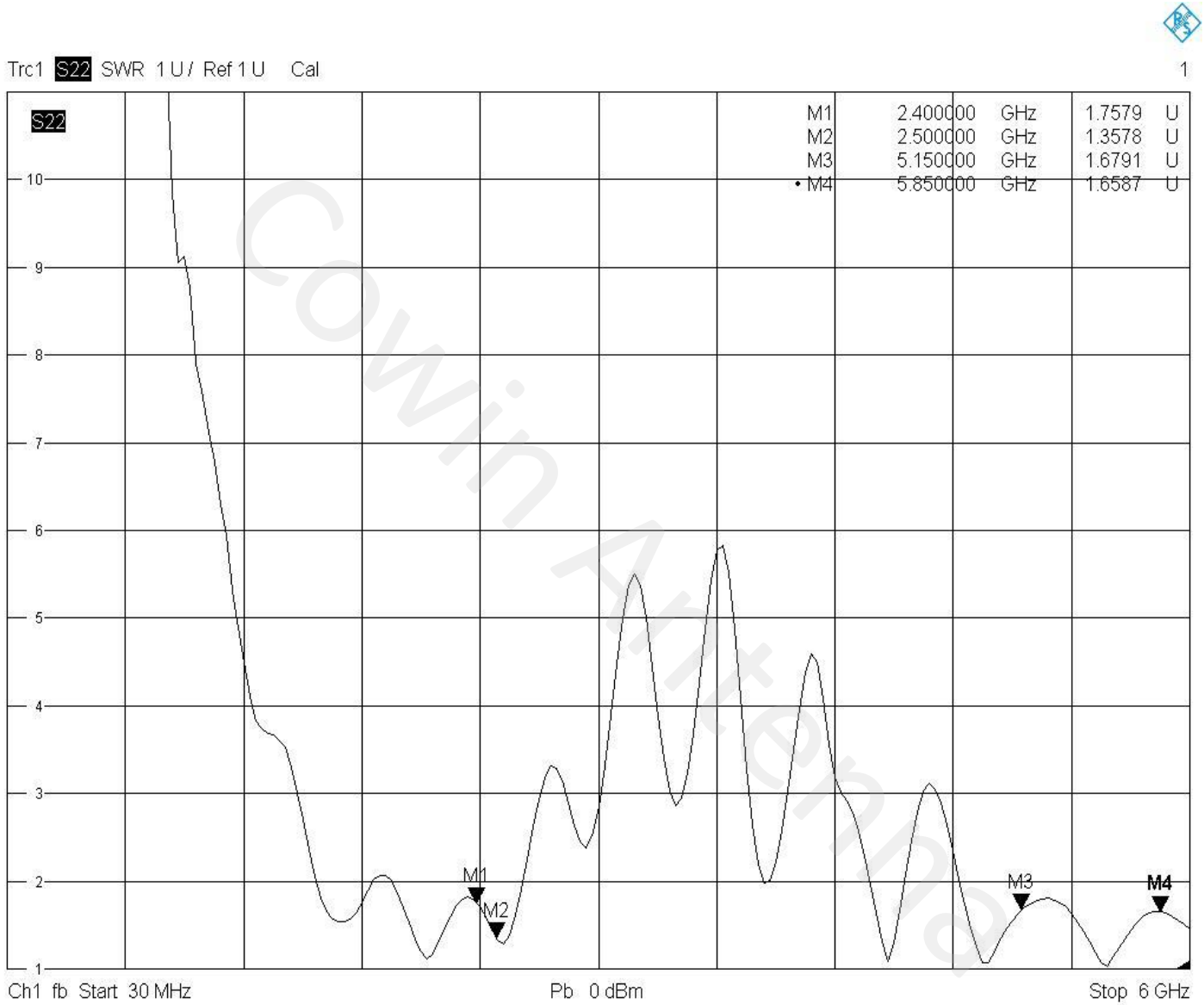
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

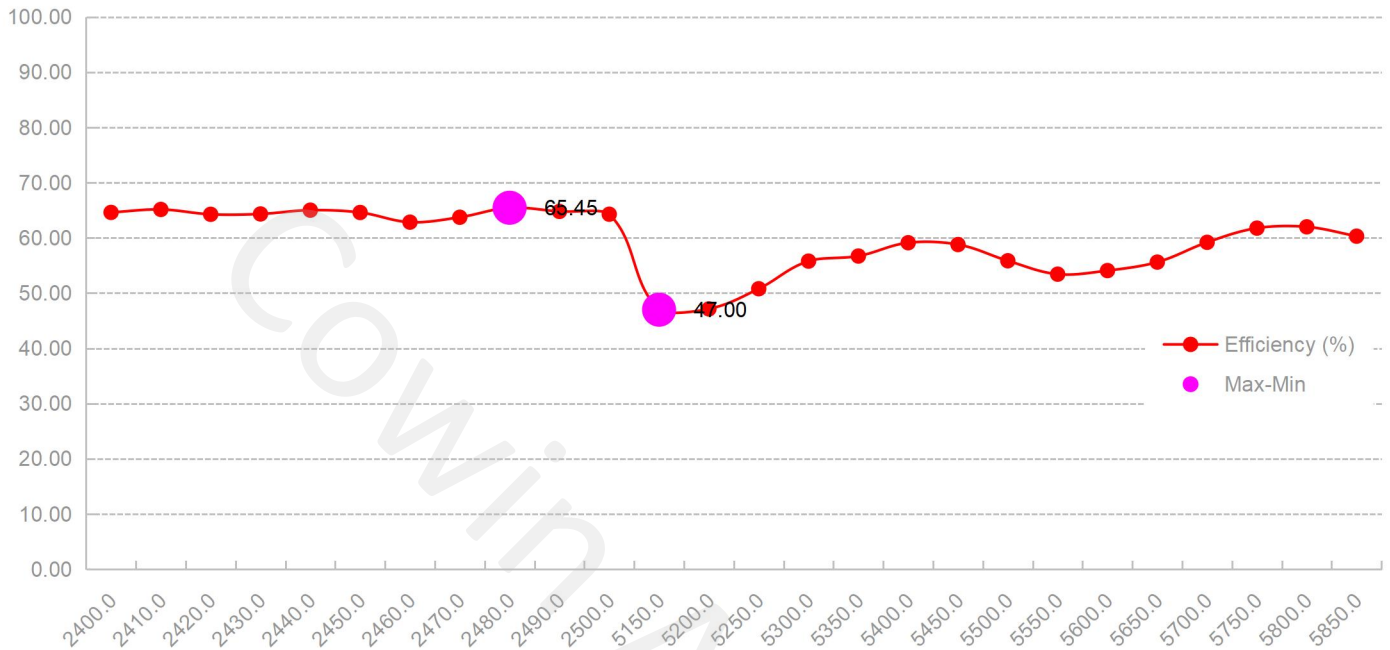


## 4.1 VSWR

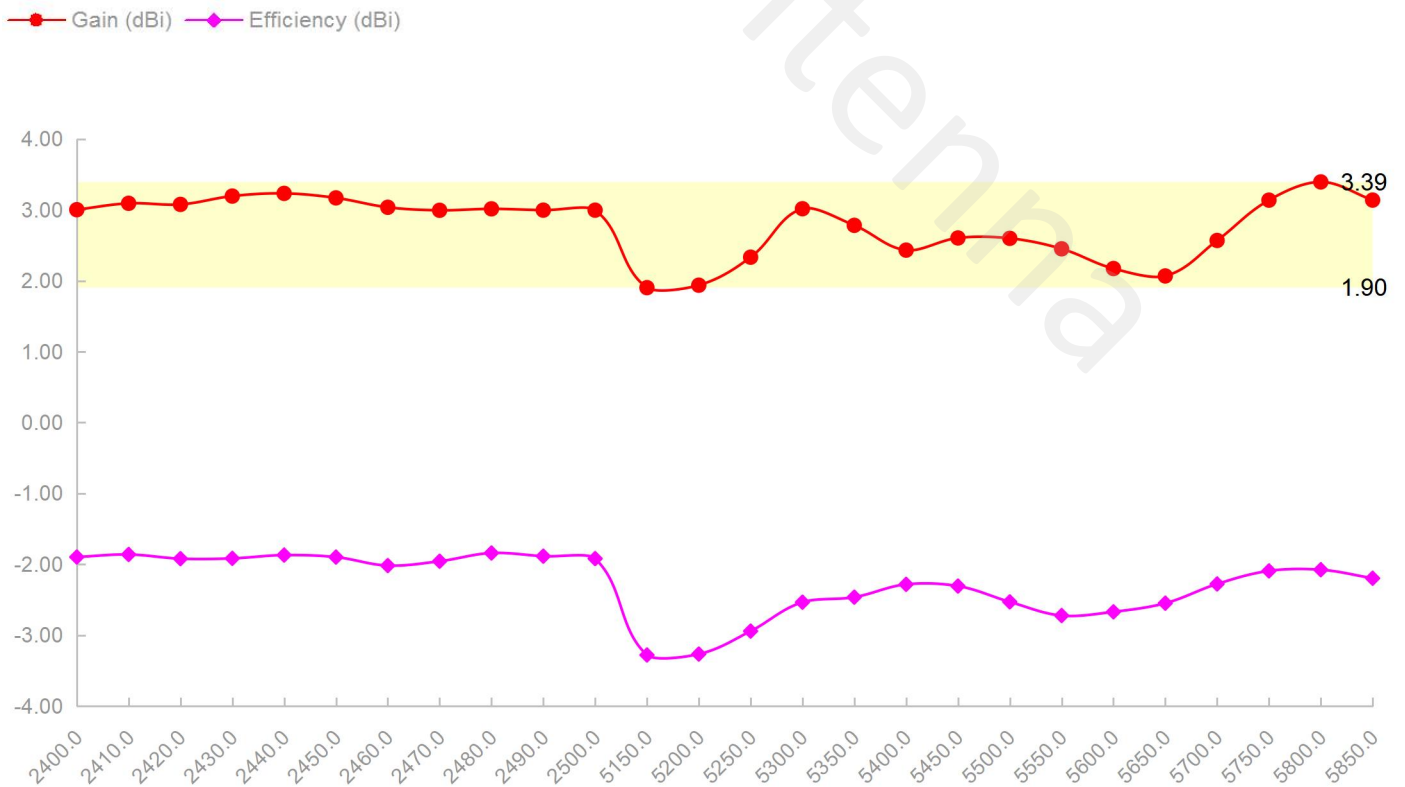


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## 4.2 Efficiency



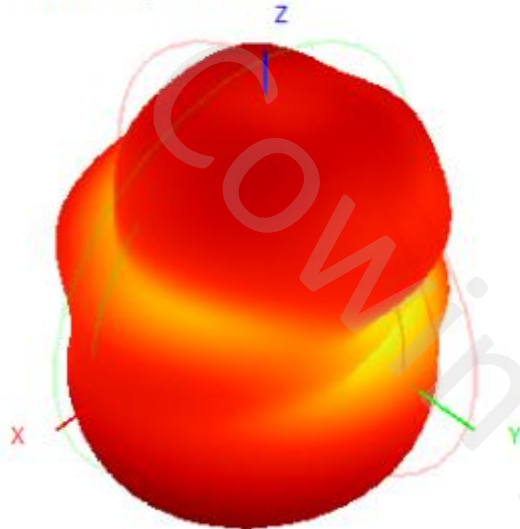
## 4.3 Peak gain



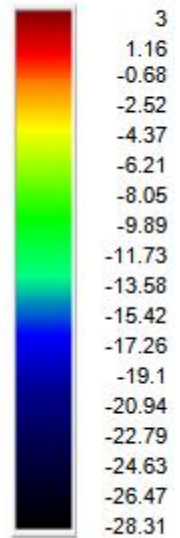
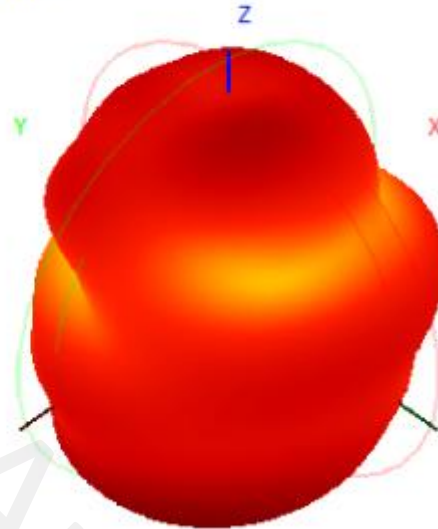


## 4.4 3D&2D Radiation Patterns

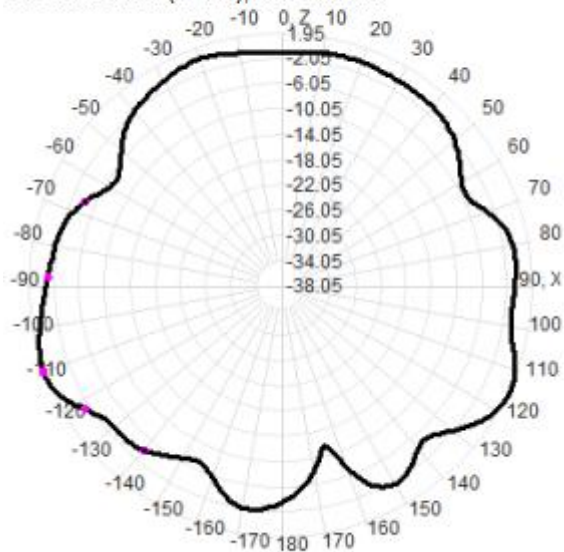
2400.0MHz H+V, Eff: 64.6%



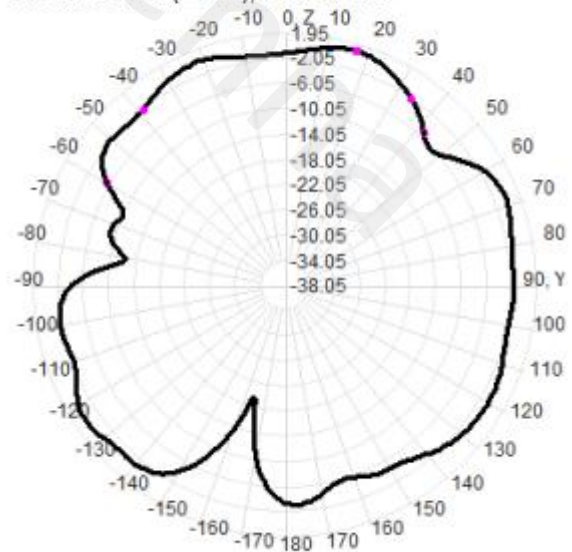
Back View



2400.0MHz Total(E1-XZ), Max= 1.95dBi

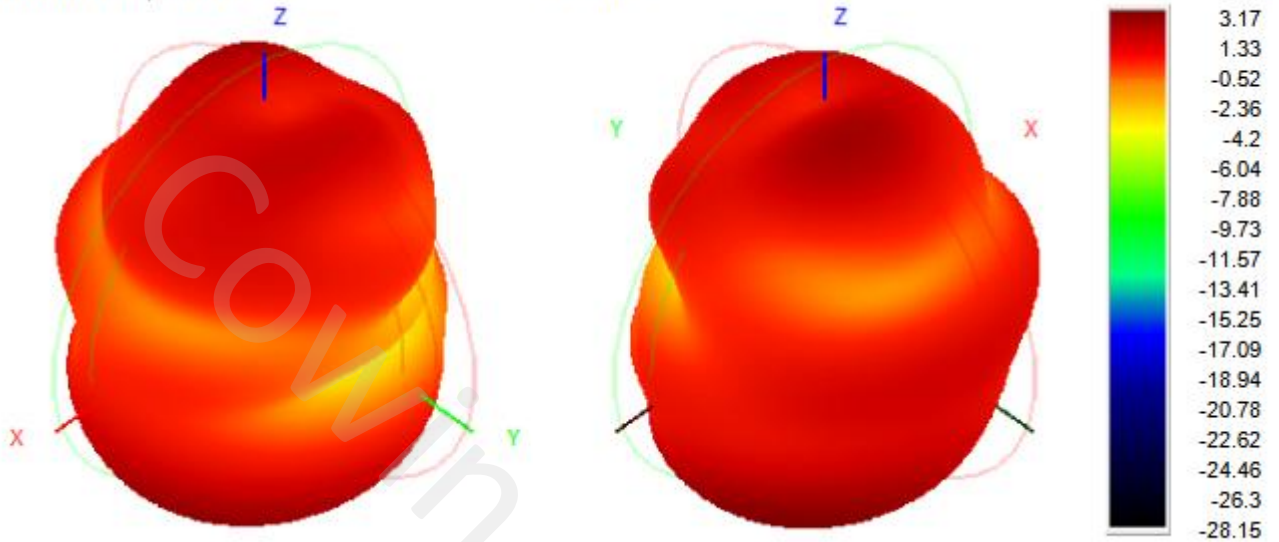


2400.0MHz Total(E2-YZ), Max= 0.83dBi



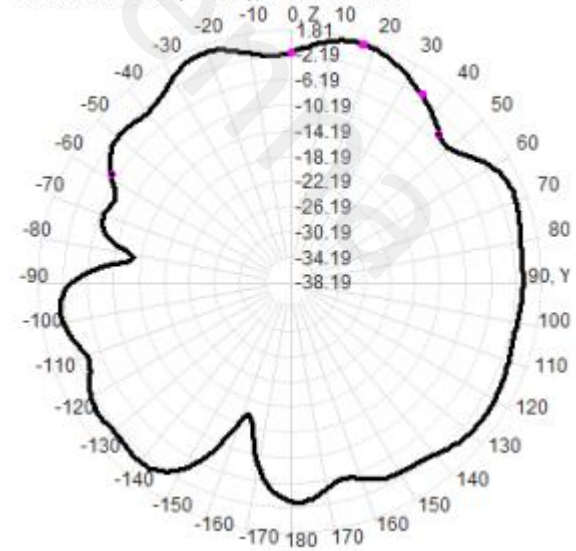
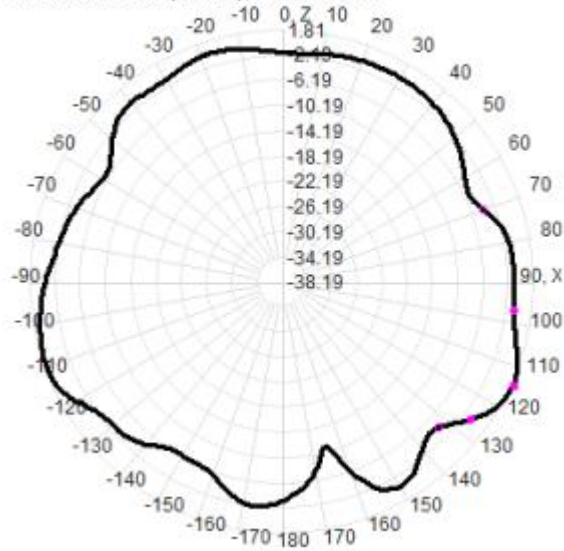
2450.0MHz H+V, Eff: 64.6%

Back View



2450.0MHz Total(E1-XZ), Max= 1.81dBi

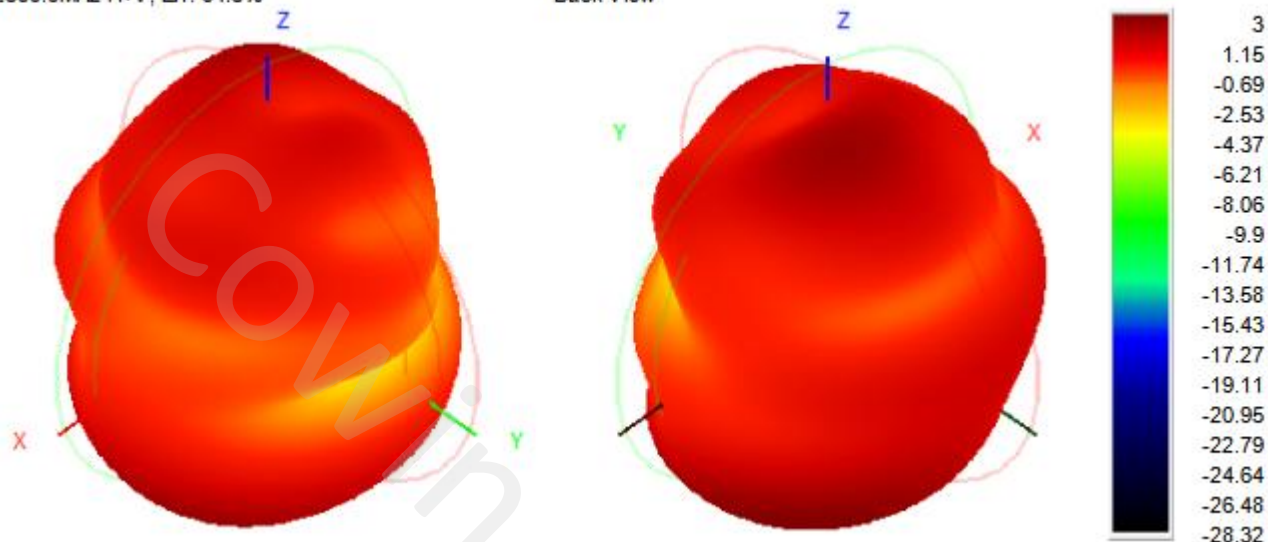
2450.0MHz Total(E2-YZ), Max= 1.29dBi





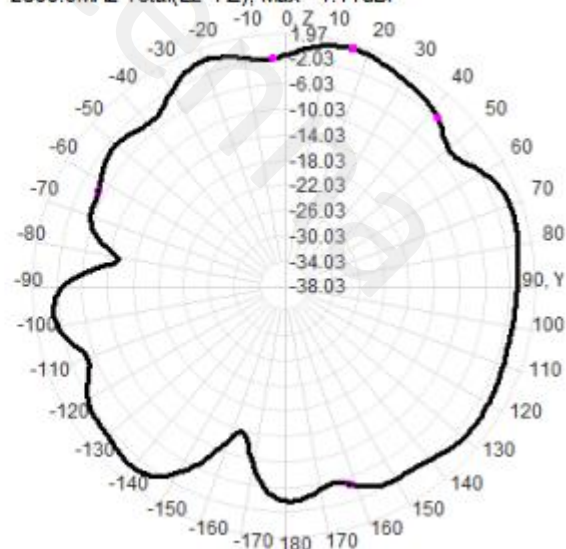
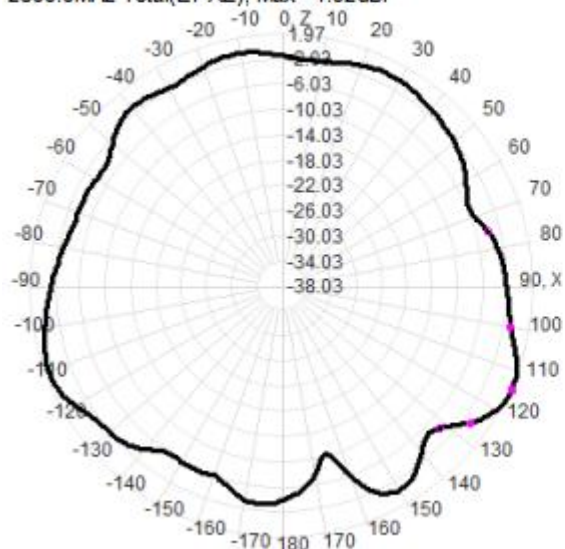
2500.0MHz H+V, Eff: 64.3%

Back View



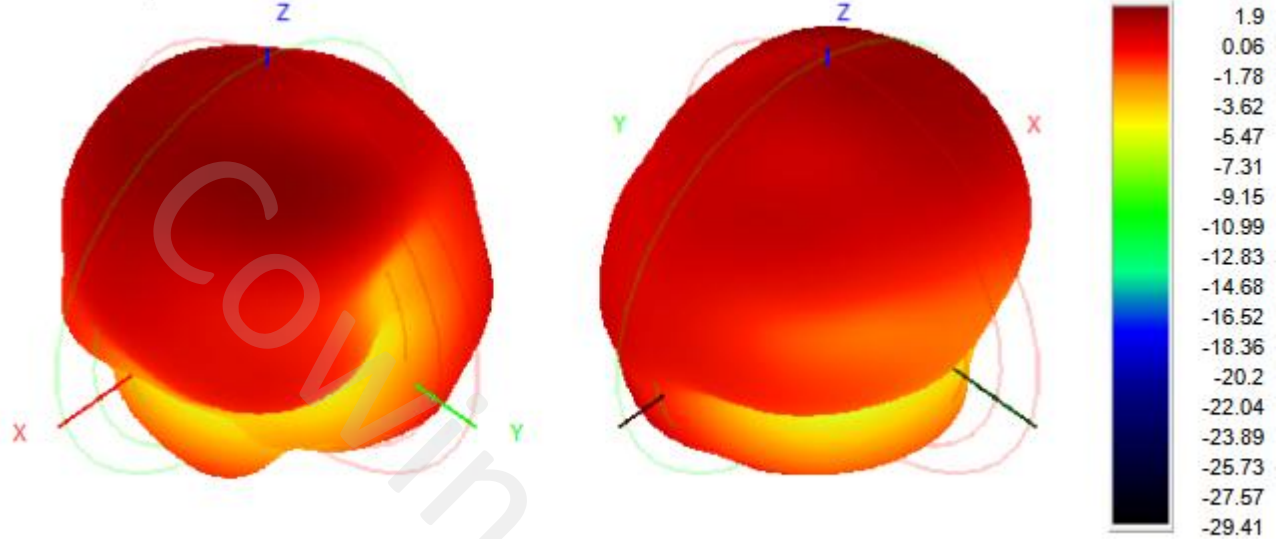
2500.0MHz Total(E1-XZ), Max= 1.92dBi

2500.0MHz Total(E2-YZ), Max= 1.11dBi

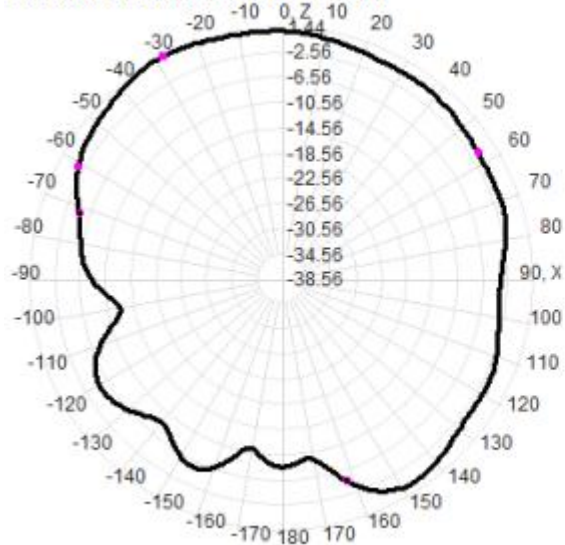


5150.0MHz H+V, Eff: 47.0%

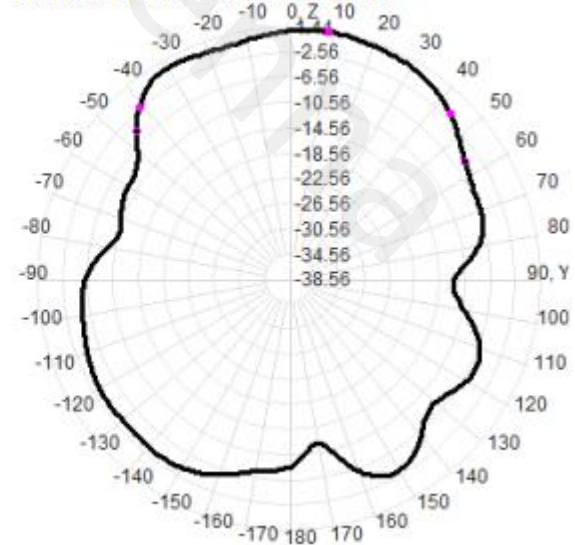
Back View



5150.0MHz Total(E1-XZ), Max= 1.44dBi

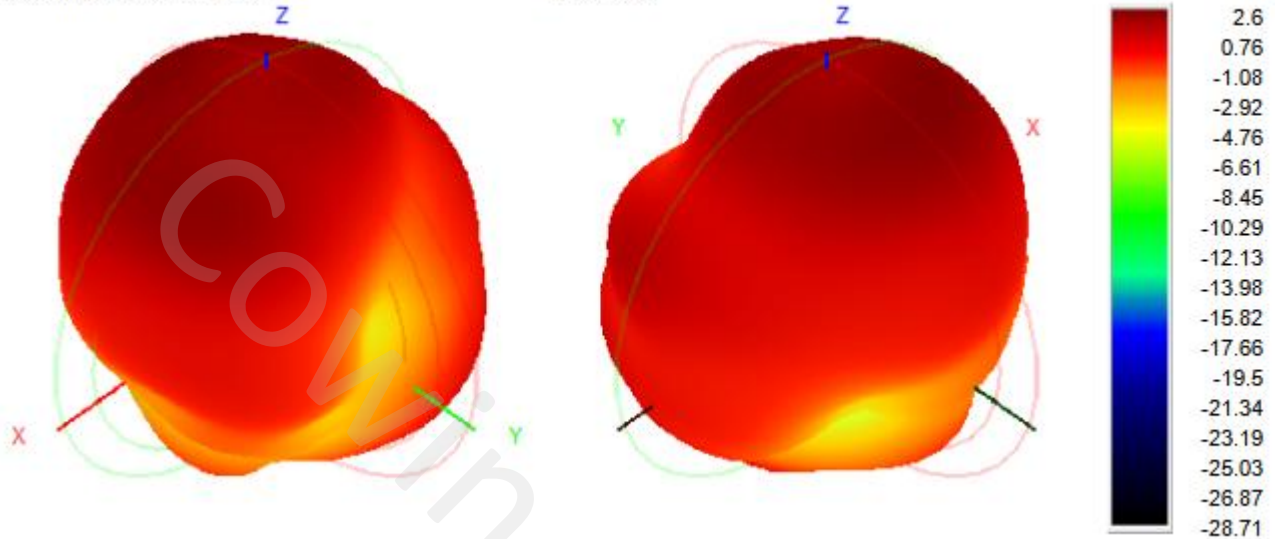


5150.0MHz Total(E2-YZ), Max= 1.11dBi



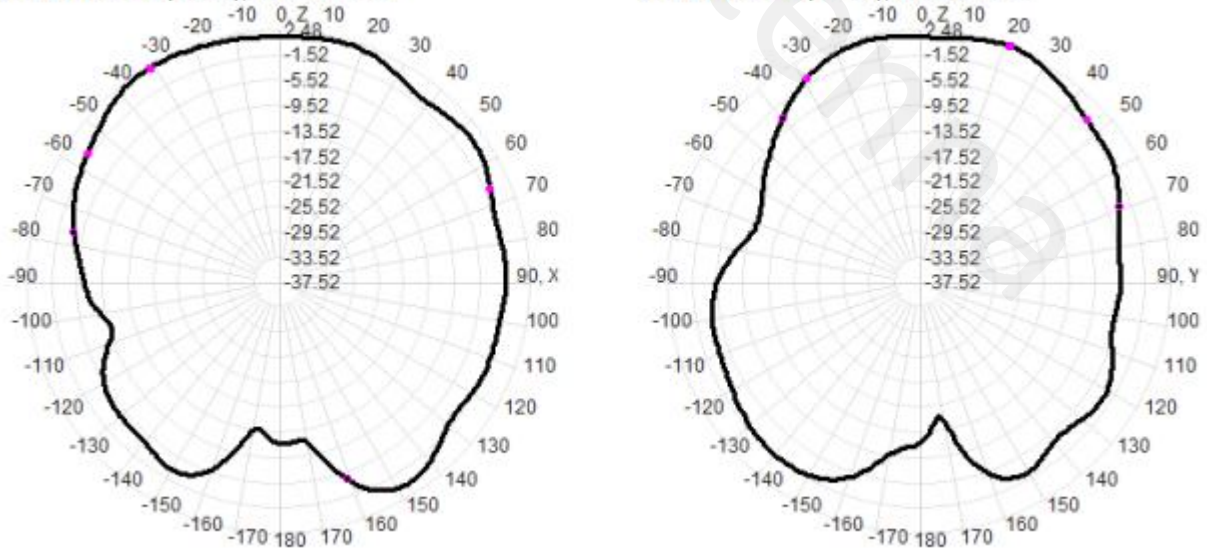
5450.0MHz H+V, Eff: 58.8%

Back View



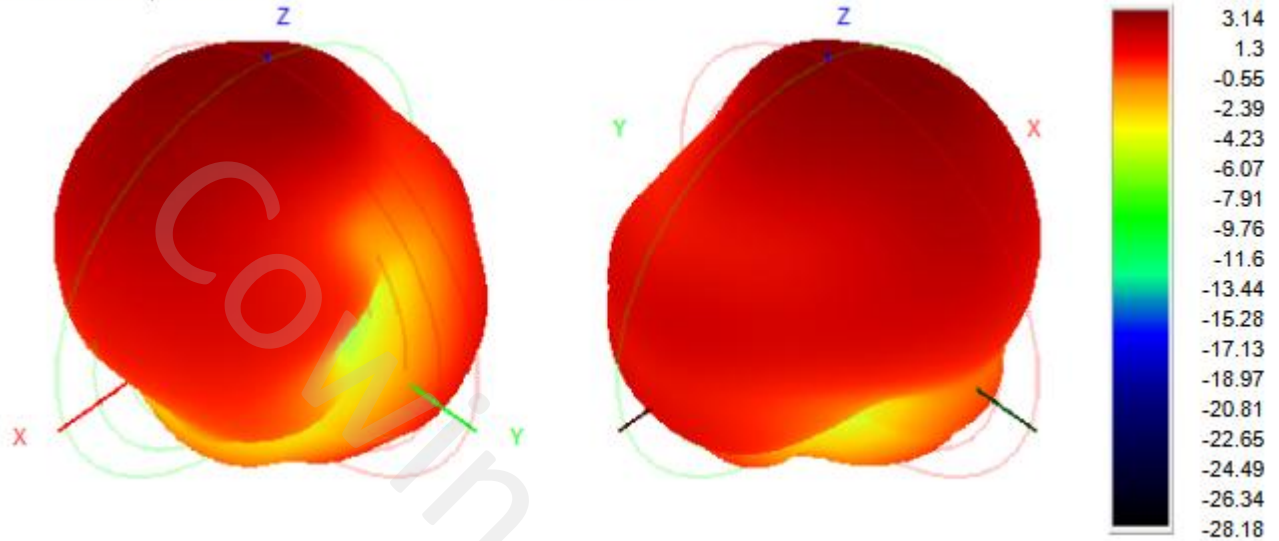
5450.0MHz Total(E1-XZ), Max= 2.08dBi

5450.0MHz Total(E2-YZ), Max= 2.48dBi

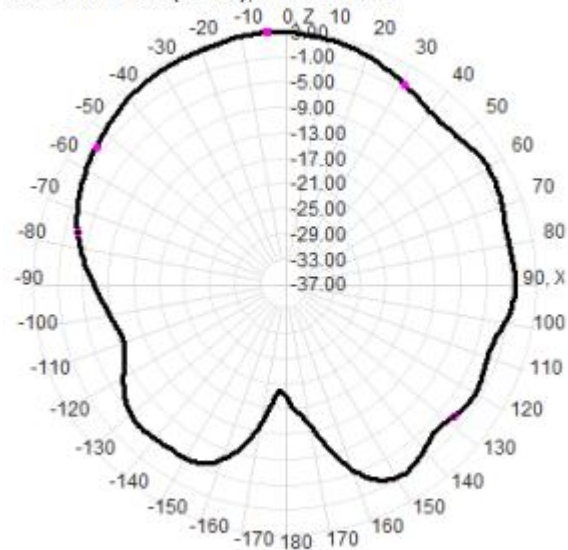


5850.0MHz H+V, Eff: 60.3%

Back View



5850.0MHz Total(E1-XZ), Max= 3.00dBi



5850.0MHz Total(E2-YZ), Max= 2.95dBi

