

## CW-WZ-0043

### 2.4G Magentic Antenna

#### Key Features

Frequency: 2.4-2.5G

SMA Male Connector

External Magnetic Base

Dimensions 110\*30 mm



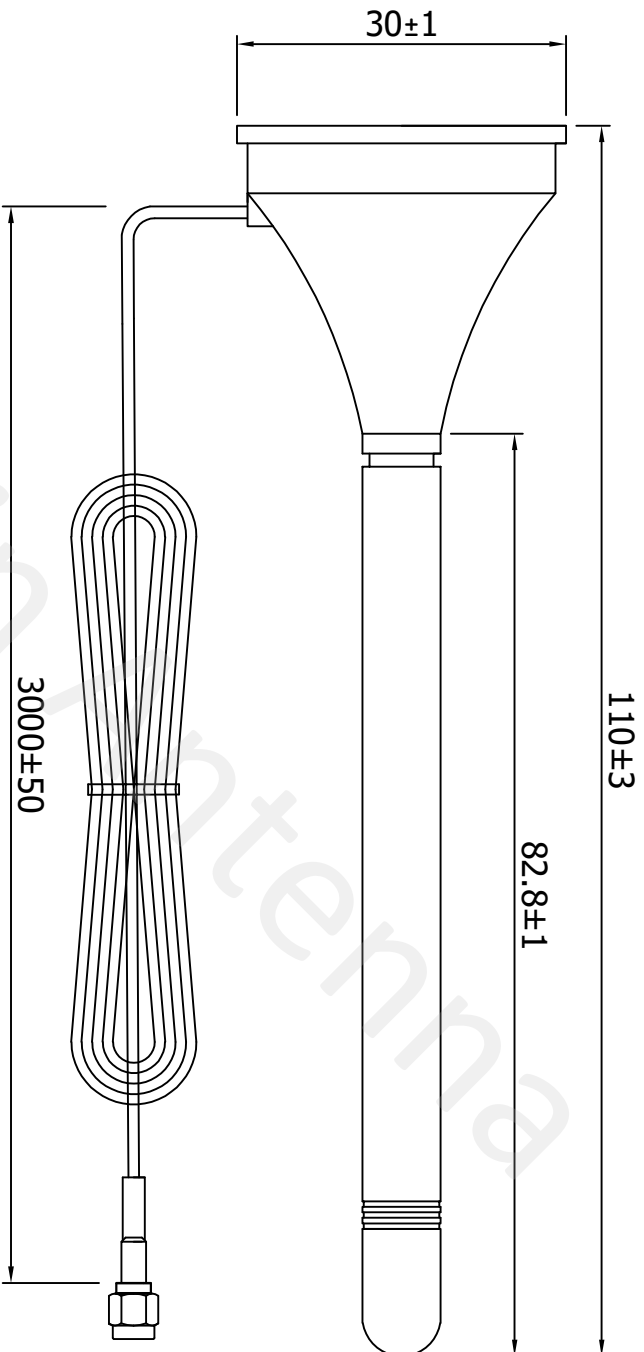
## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2.5
Efficiency (%)	48.7%
Peak Gain (dBi)	1.65
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

## 2. Material and environmental characteristics

Inner structure	Copper tube
Material of Plastic	ABS/TPE
Cable Type	RG174
Connector Type	SMA Male
Dimensions (mm)	110*30MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2023/02/16	New issue



Specification(Free Test):  
 Frequency Range:2.4-2.5G  
 Impedance: 50Ω  
 V.S.W.R:≤2.5  
 100% Continuity,short and open circuit test  
 Materials,parts and process must by environmentally (ROHS)

8	Tube	3.5*15MM Heat shrinkable tube	1	
7	Signal tube	Copper	1	
6	Radome	Black TPE	1	
5	Bottom cover	Black ABS	1	
4	Sticker	29*1mm	1	
3	Magnet	Magnet	1	
2	Cable	RG174 Cable	1	
1	Connector	SMA Male	1	
NO	Name	Description	Q'TY	Remark
XX	±5.0	Approved		
X.	±3.0	Customer		
X.	±1.0	Part NO.		
.X	±1.0	Part name	External antenna	
.XX	±0.2	CW P/NO.	CW-WZ-0043	
.XXX	±0.1	Drawing		
		REV	Unit	File :
		X1	m/m	Sheet :
				1/1

  
**Cowin Antenna**

## 4. Antenna test parameters

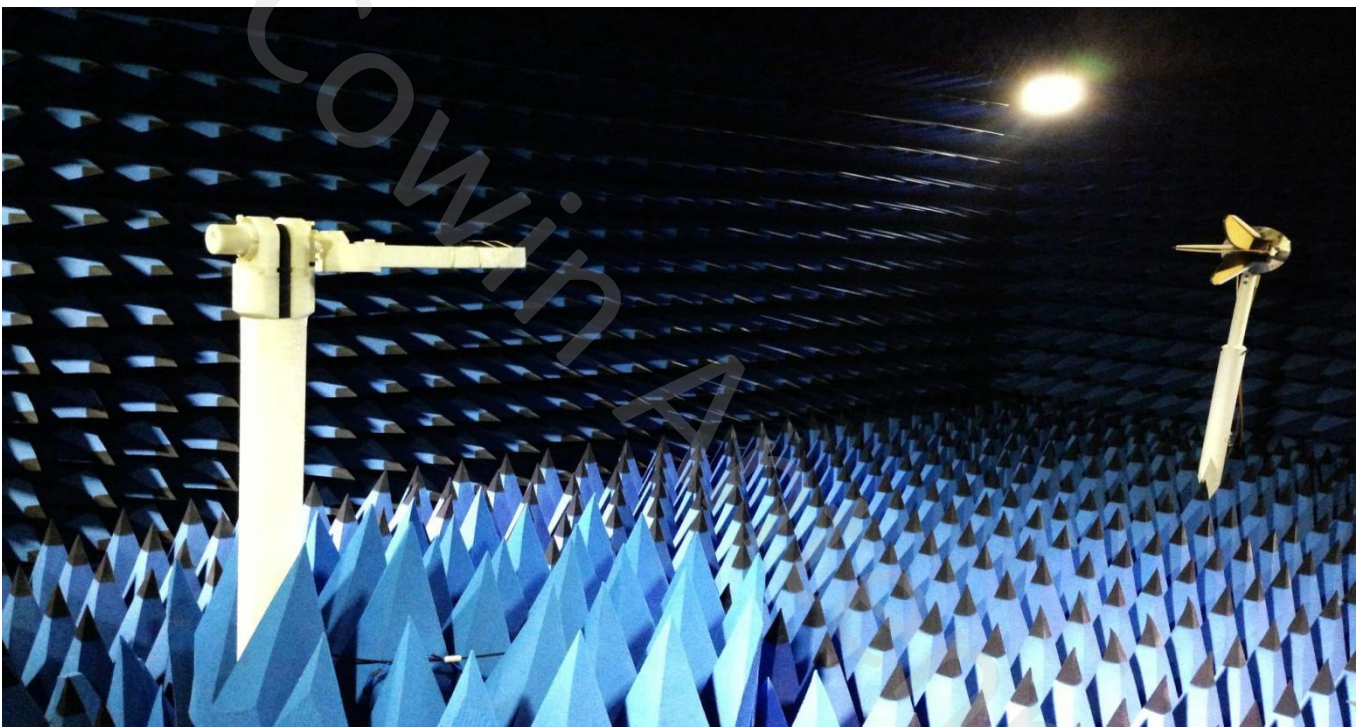
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

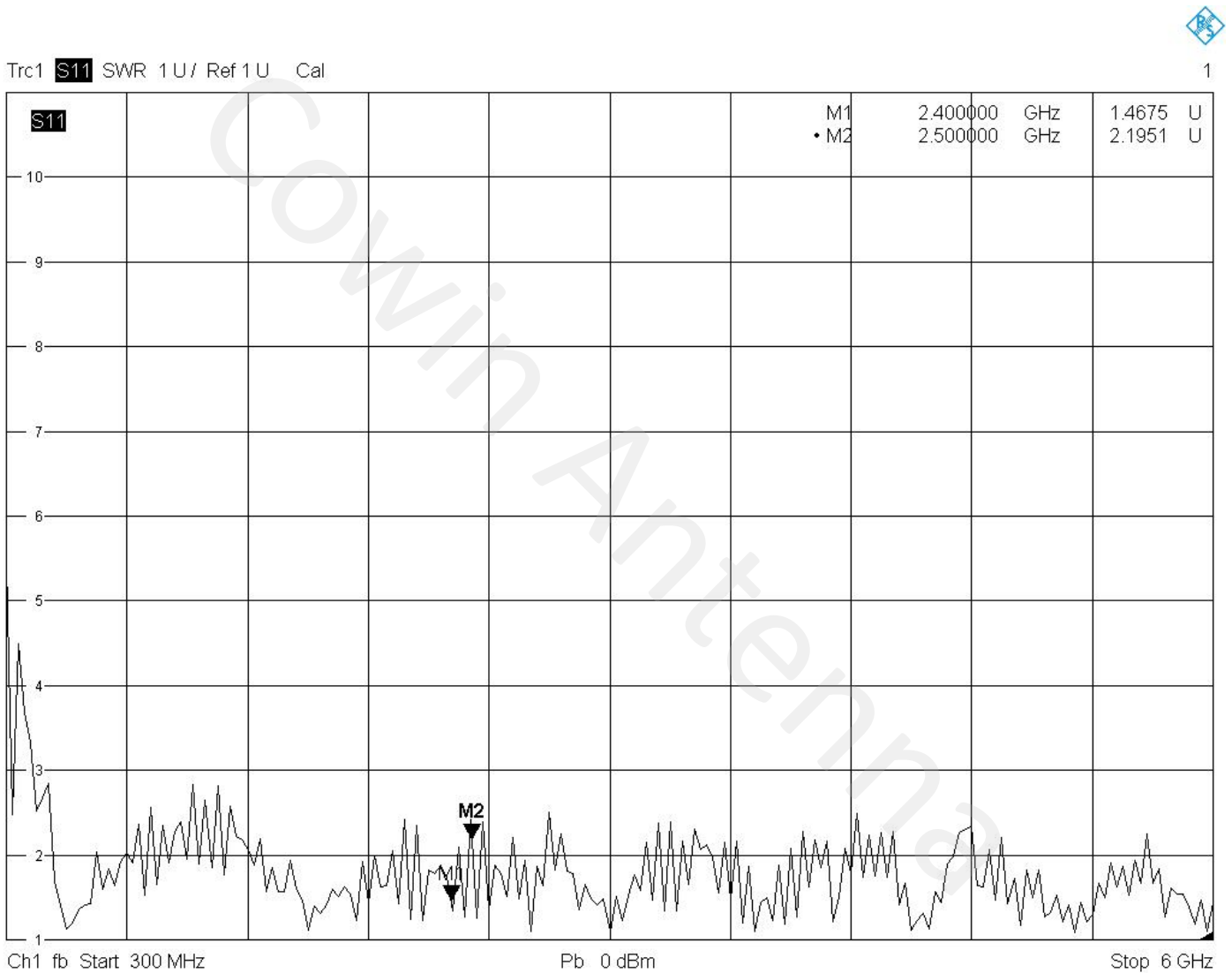
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

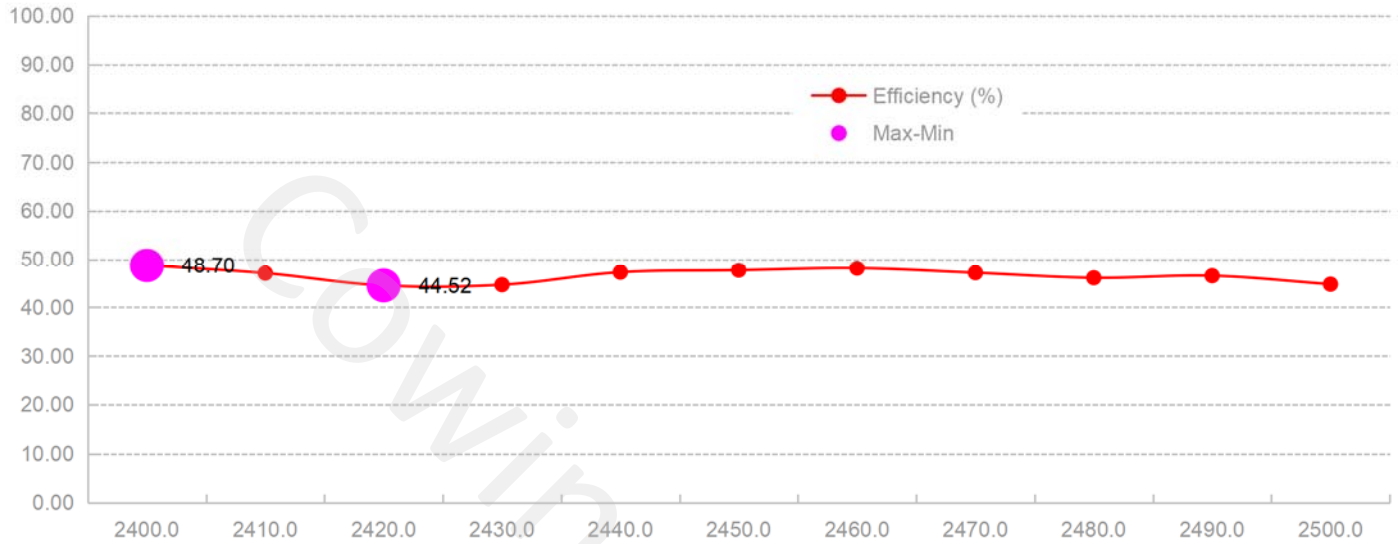


## 4.1 VSWR

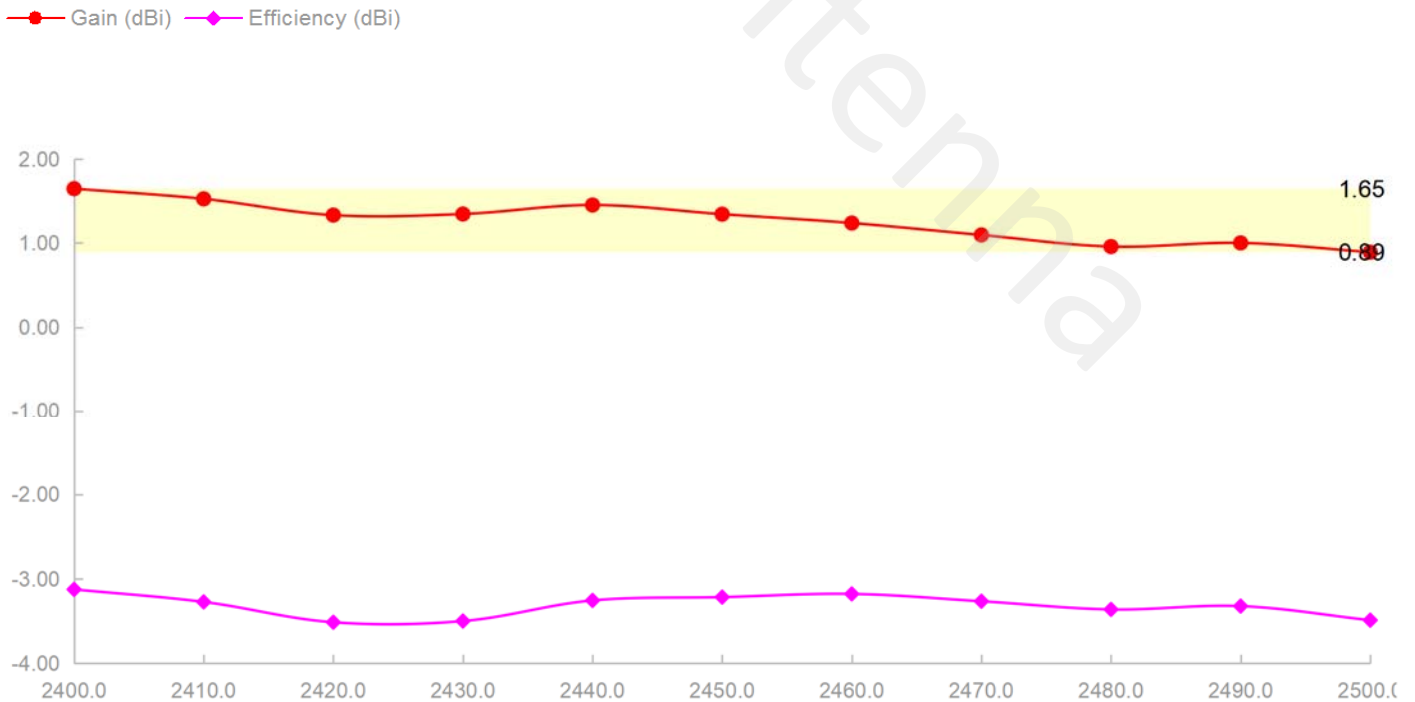


2/16/2023, 2:53 AM

## 4.2 Efficiency



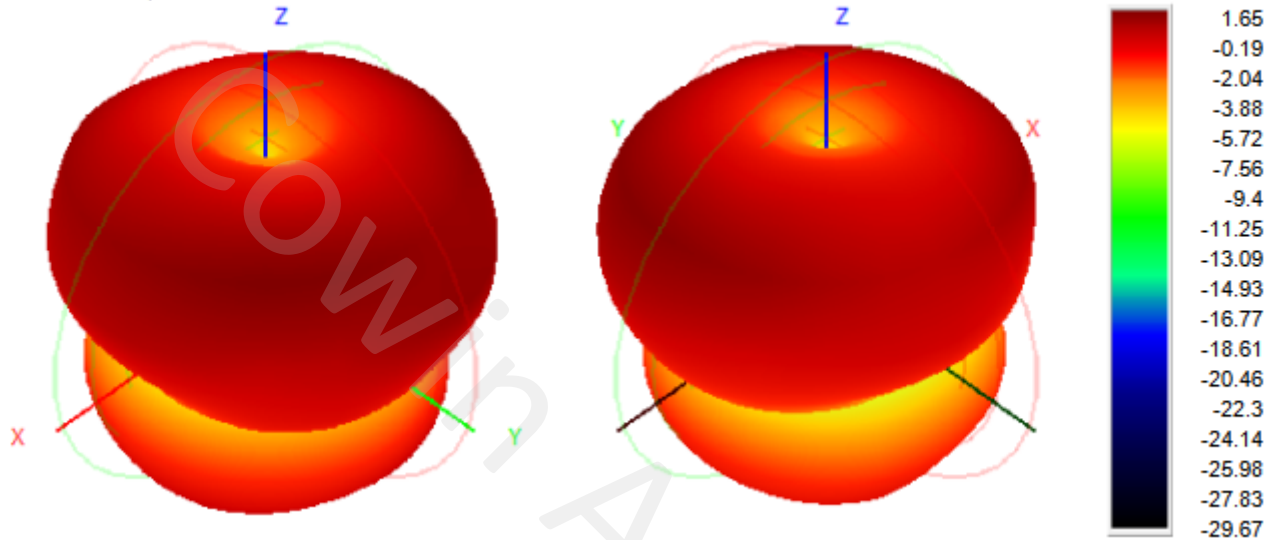
## 4.3 Peak gain



## 4.4 3D&2D Radiation Patterns

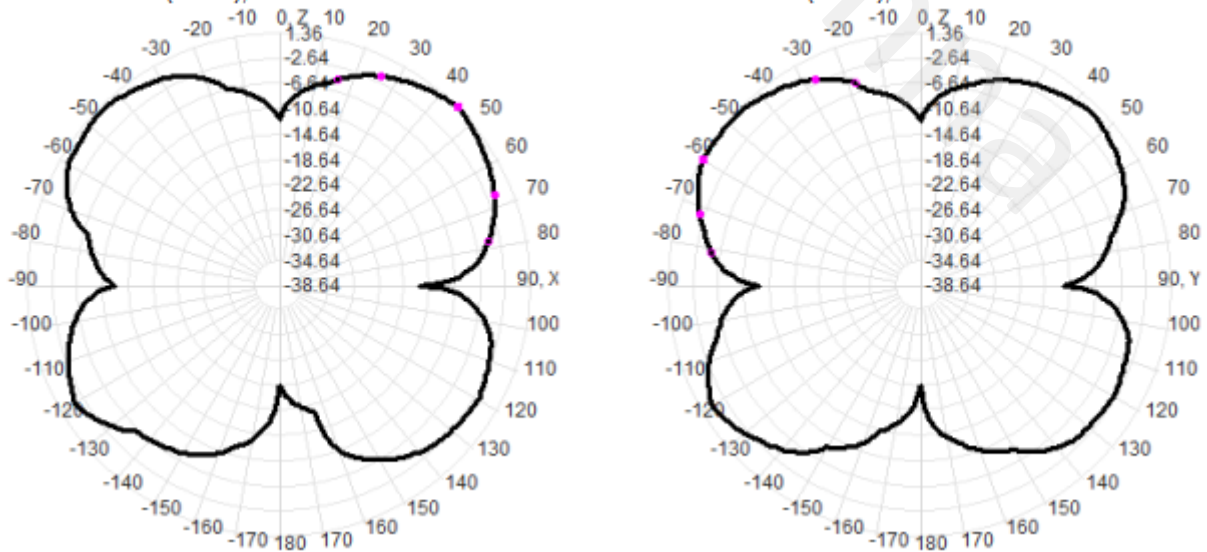
2400.0MHz H+V, Eff: 48.7%

Back View



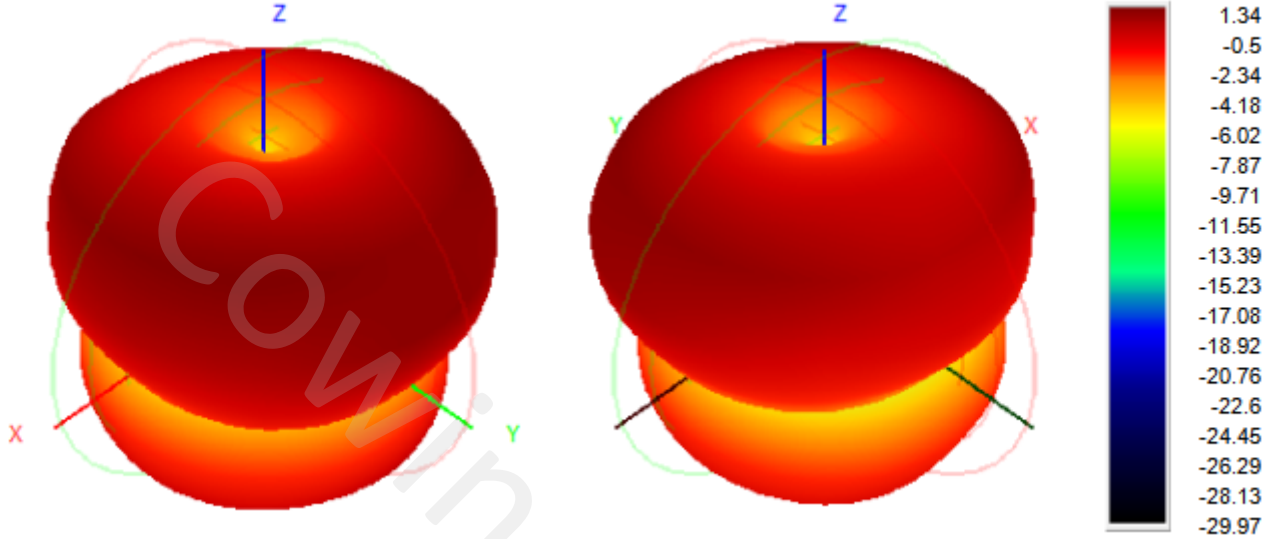
2400.0MHz Total(E1-XZ), Max= 1.36dBi

2400.0MHz Total(E2-YZ), Max= 1.14dBi

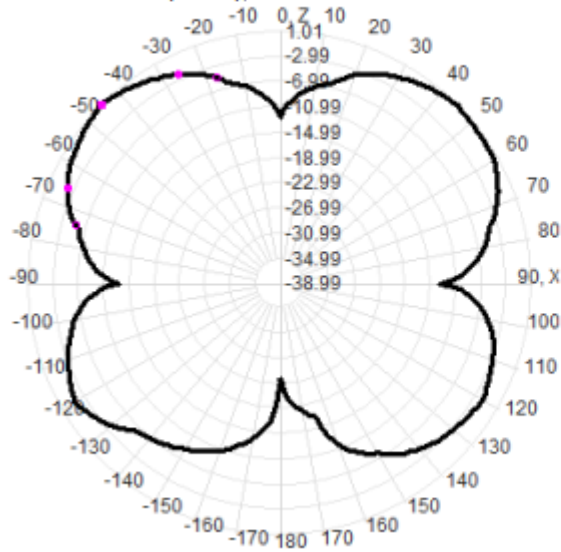


2450.0MHz H+V, Eff: 47.7%

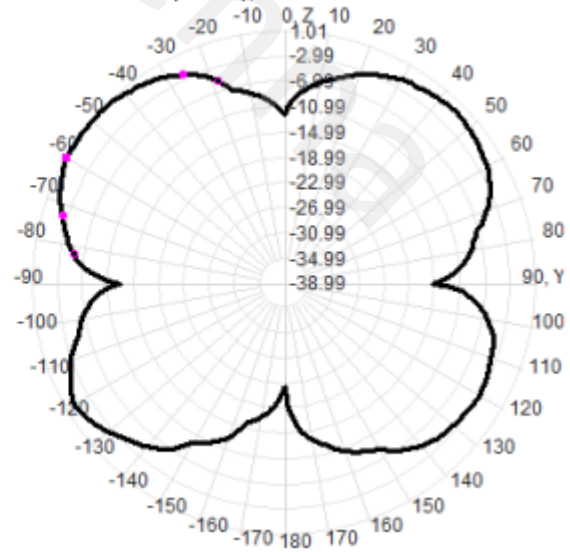
Back View



2450.0MHz Total(E1-XZ), Max= 1.01dBi

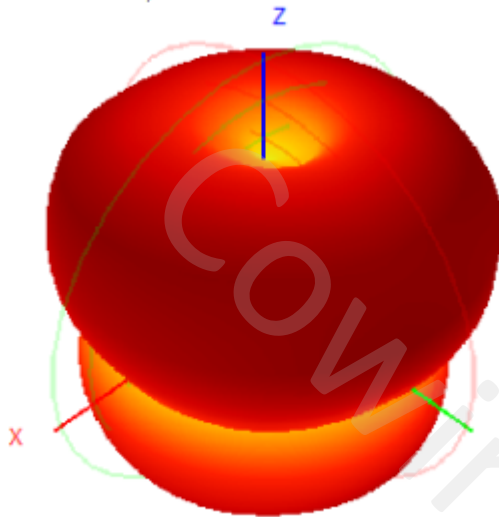


2450.0MHz Total(E2-YZ), Max= 0.95dBi

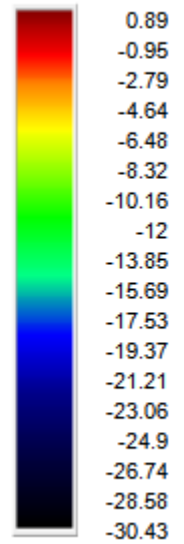
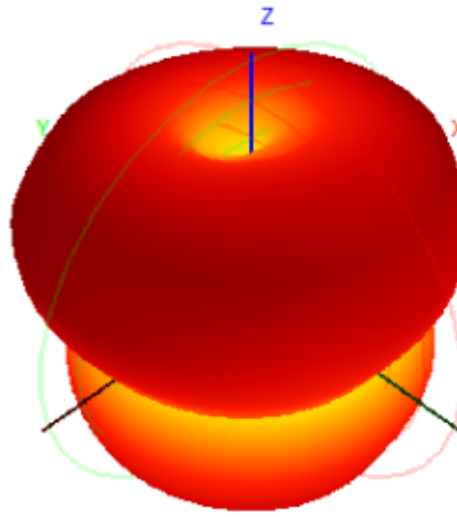




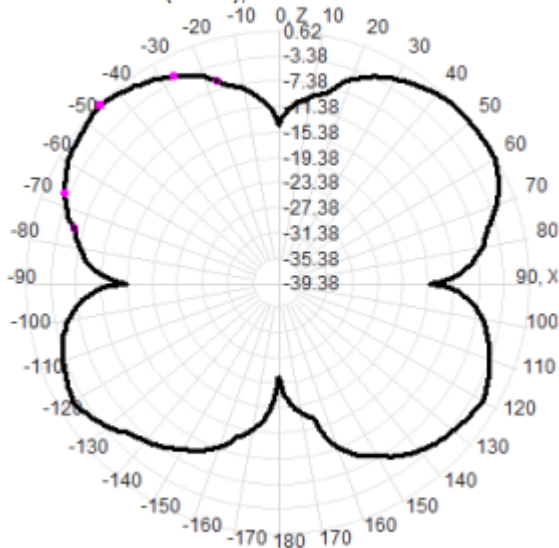
2500.0MHz H+V, Eff: 44.8%



Back View



2500.0MHz Total(E1-XZ), Max= 0.49dBi



2500.0MHz Total(E2-YZ), Max= 0.62dBi

