

CW-WZ-0043

2.4G Magentic Antenna

Key Features

Frequency: 2.4-2.5G

SMA Male Connector

External Magnetic Base

Dimensions 110*30 mm



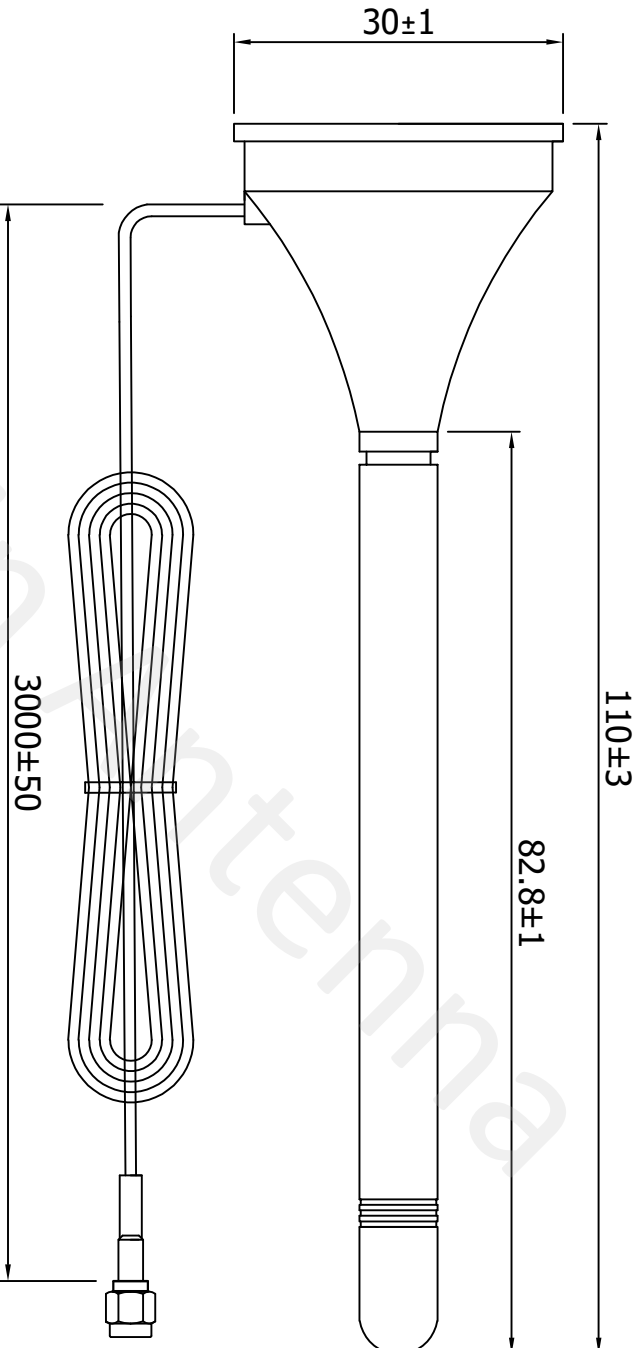
1. Antenna Electrical Characteristics

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



4. Antenna test parameters

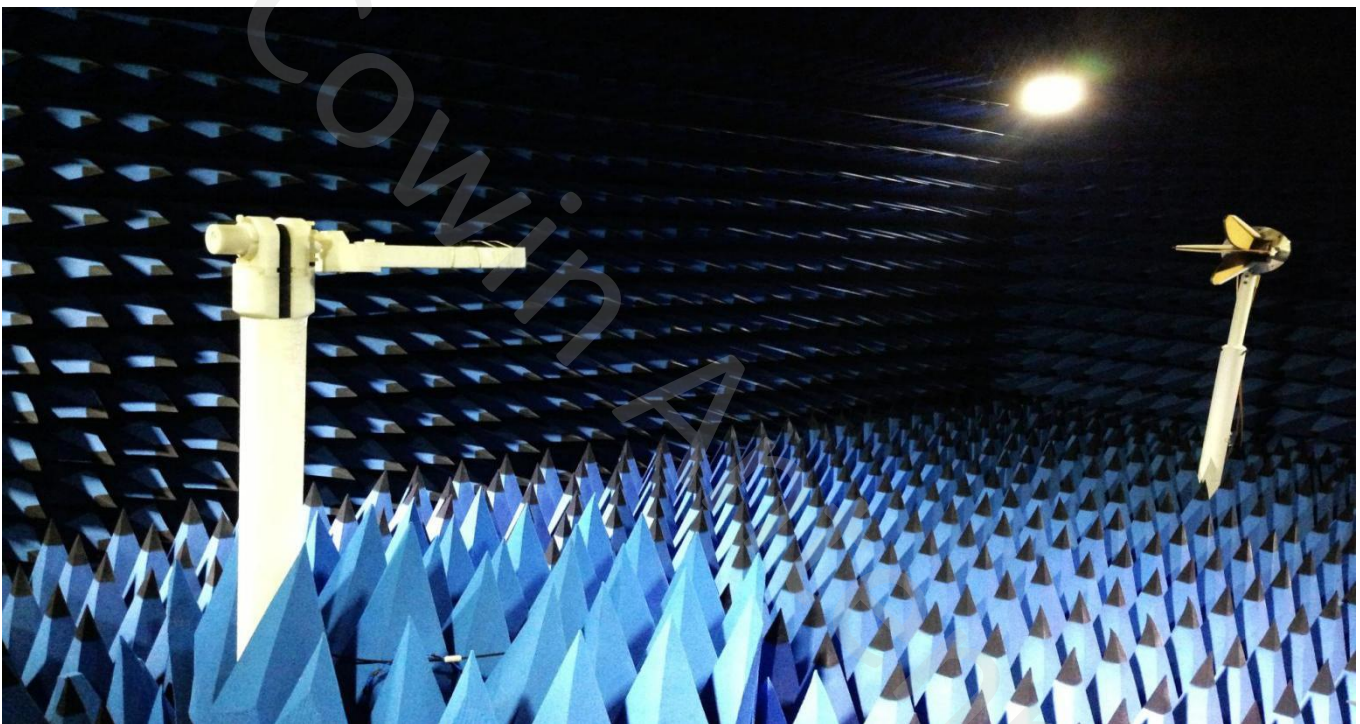
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

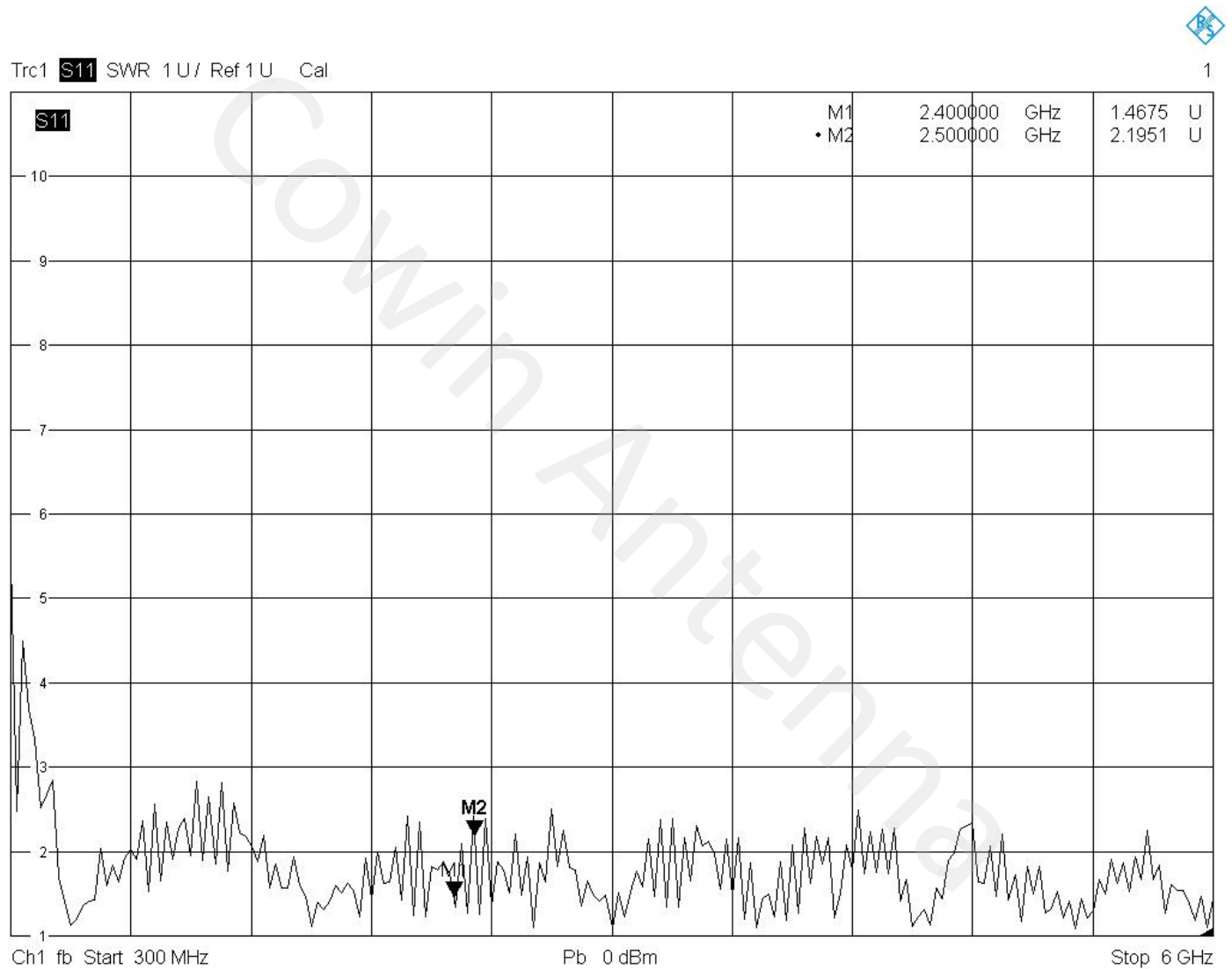
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

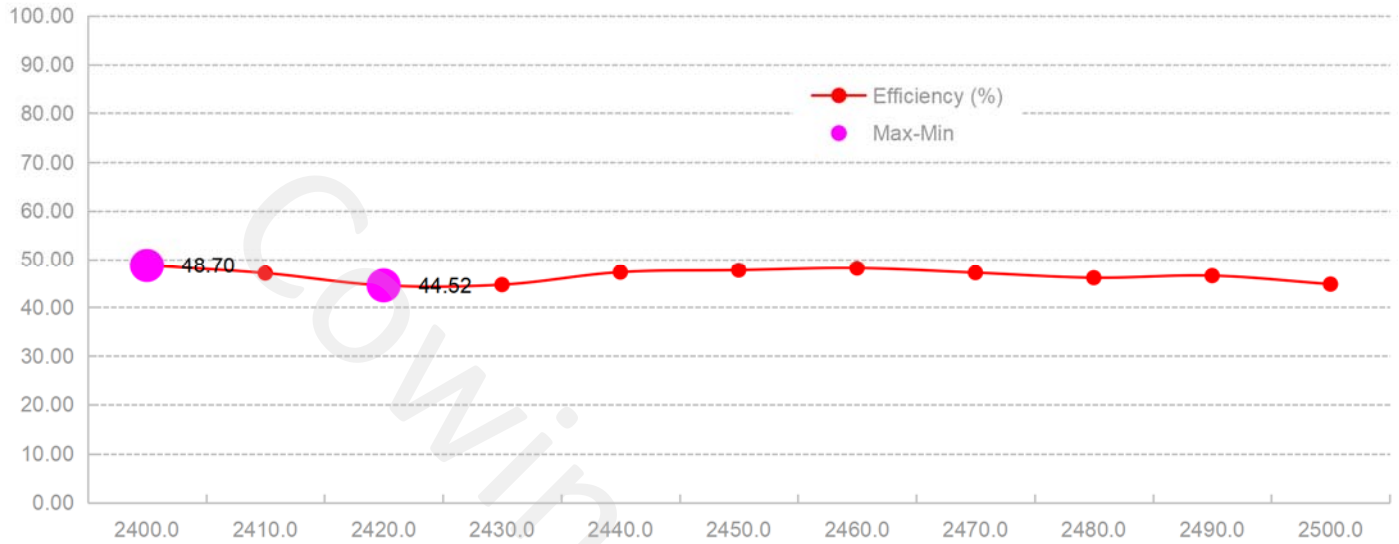


4.1 VSWR

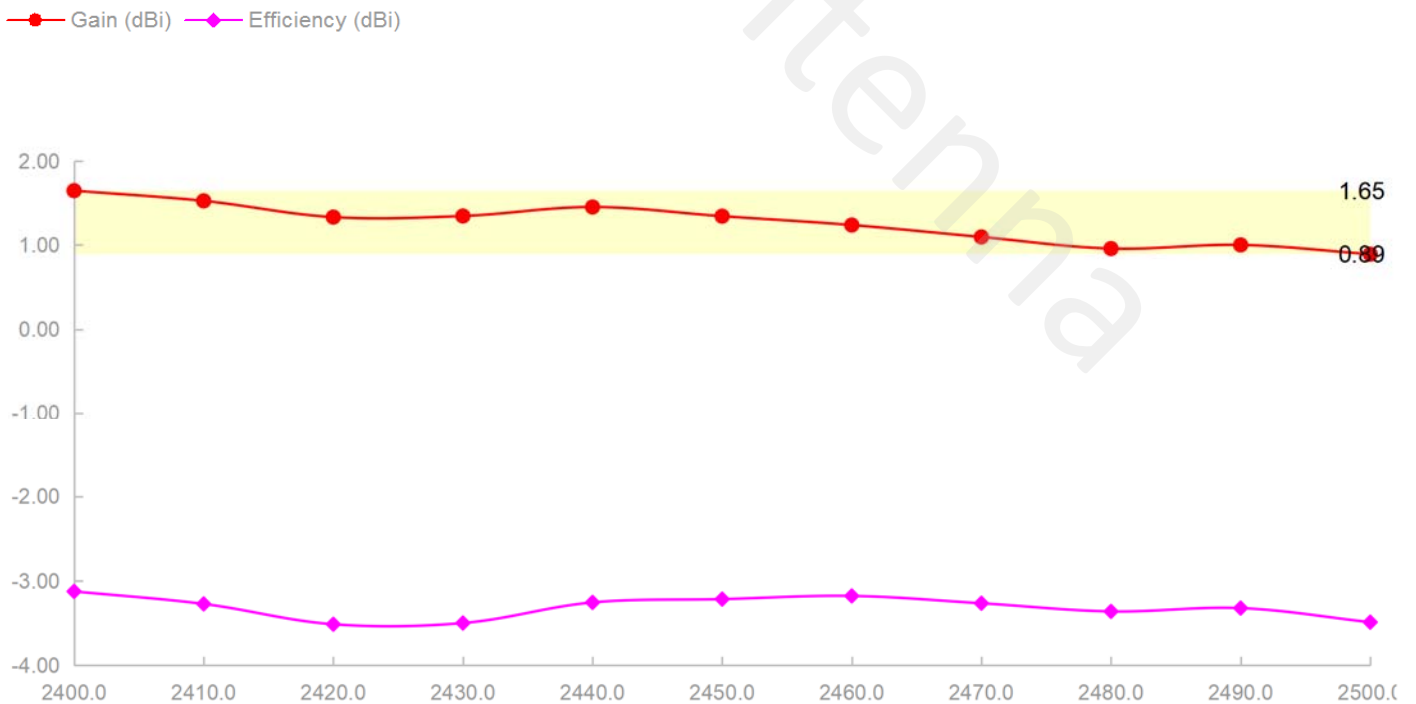


2/16/2023, 2:53 AM

4.2 Efficiency



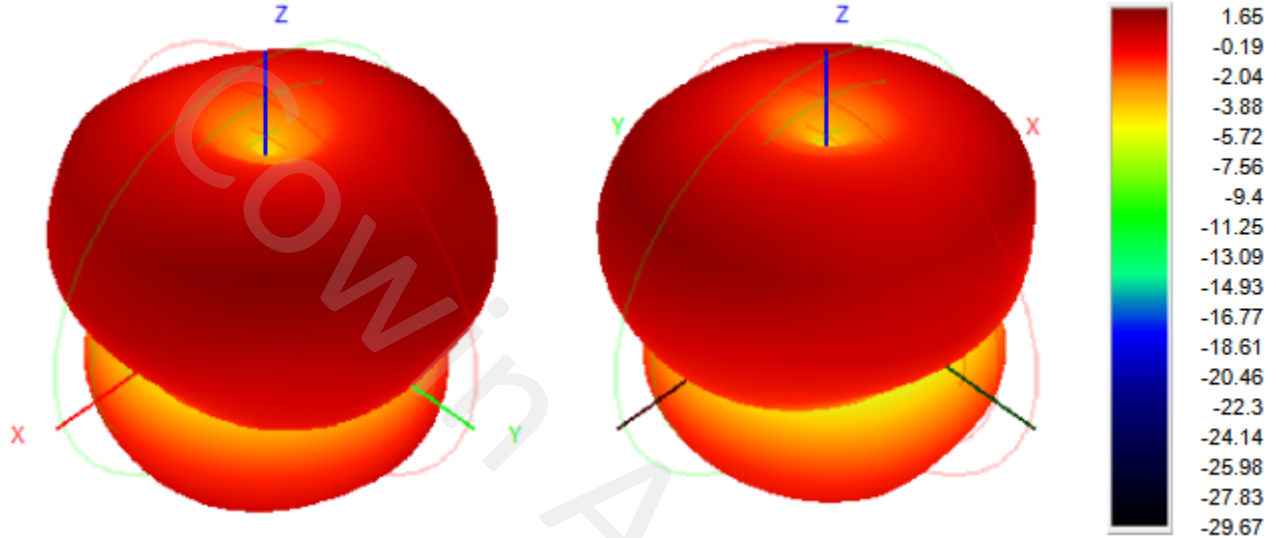
4.3 Peak gain



4.4 3D&2D Radiation Patterns

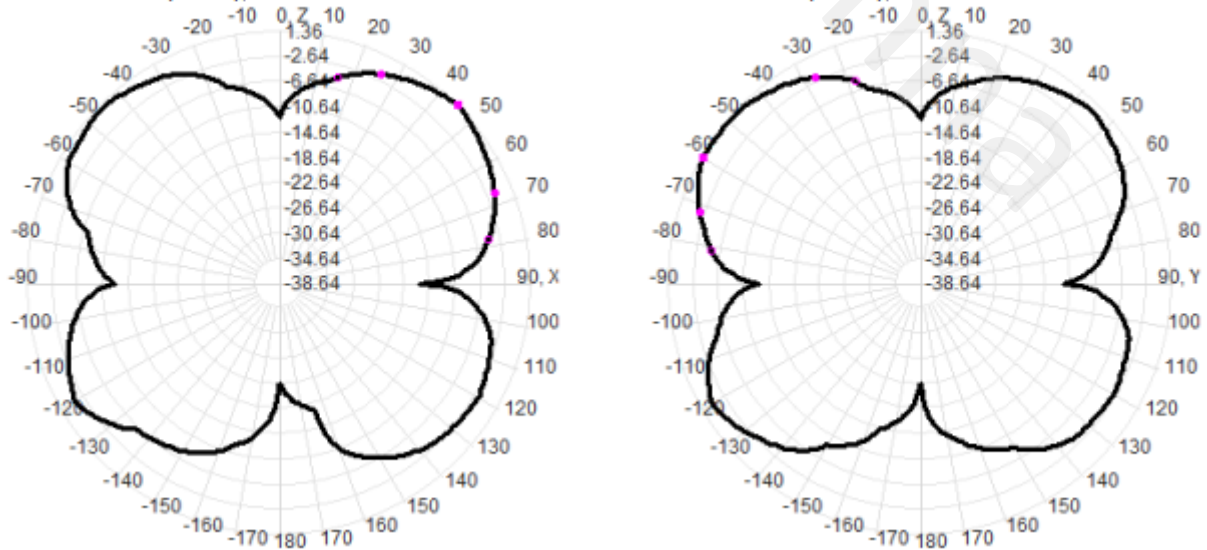
2400.0MHz H+V, Eff: 48.7%

Back View



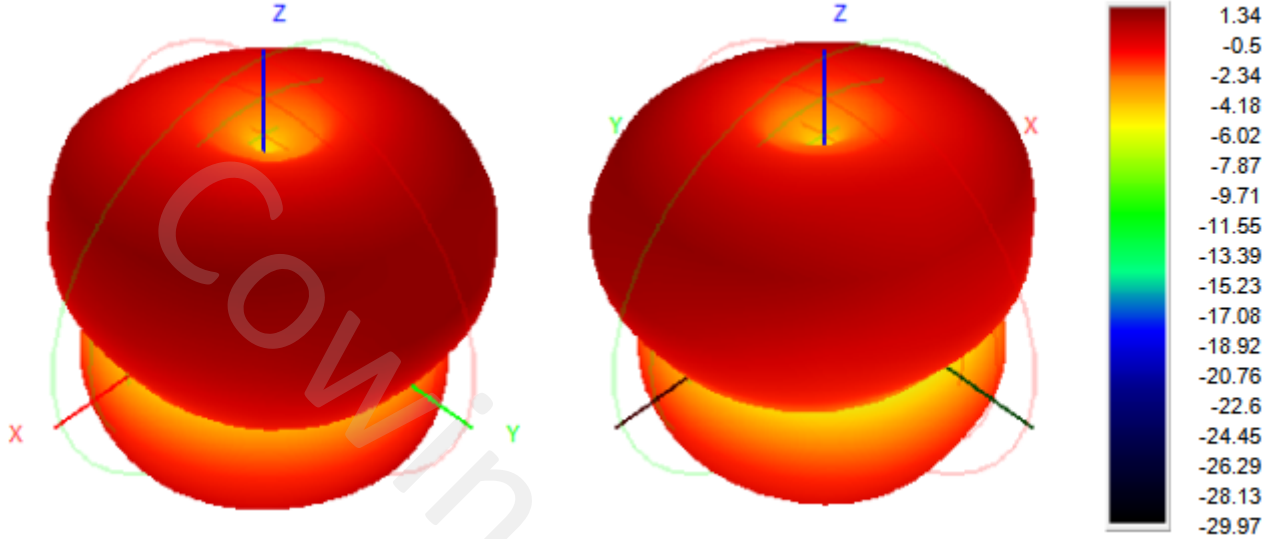
2400.0MHz Total(E1-XZ), Max= 1.36dBi

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

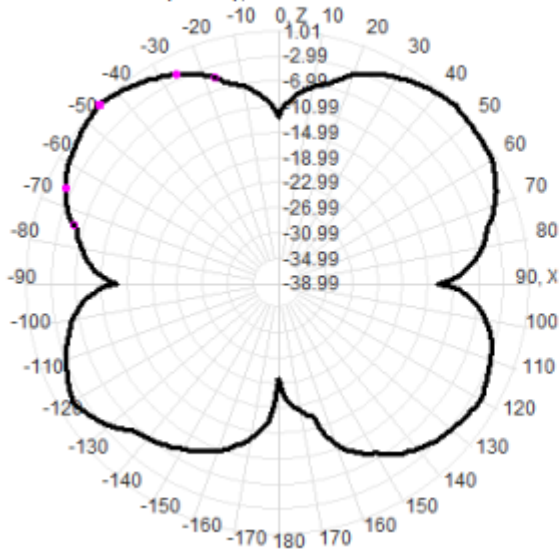


2450.0MHz H+V, Eff: 47.7%

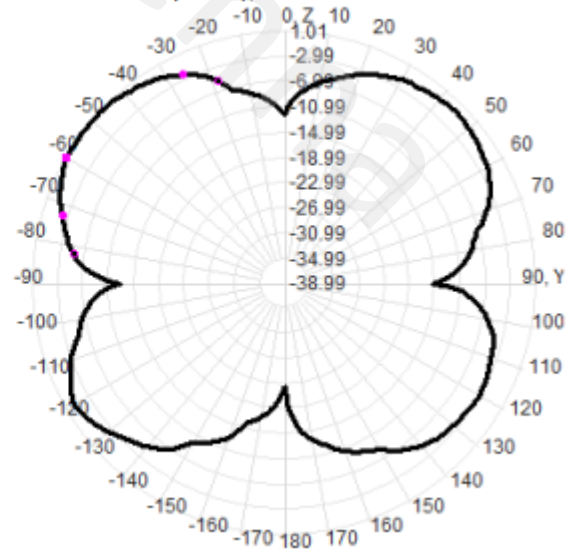
Back View



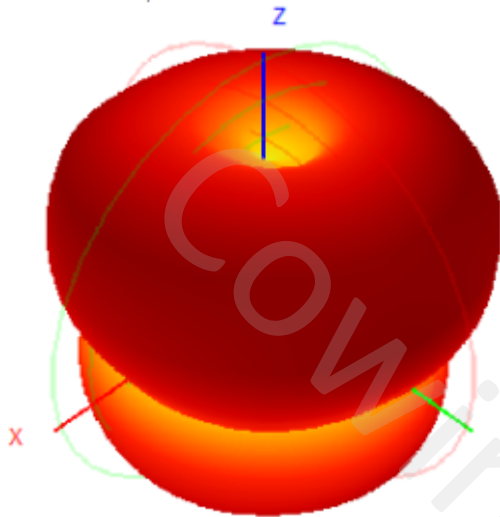
2450.0MHz Total(E1-XZ), Max= 1.01dBi



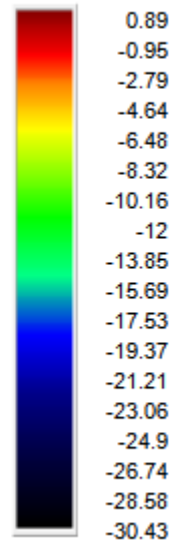
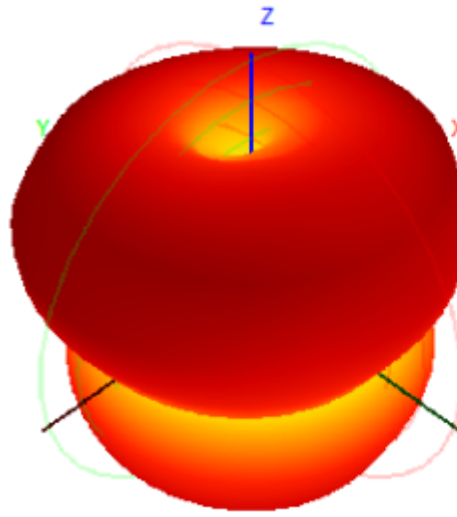
2450.0MHz Total(E2-YZ), Max= 0.95dBi



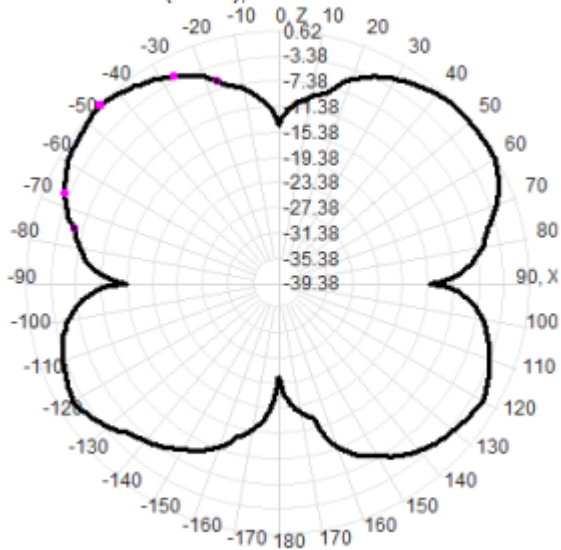
2500.0MHz H+V, Eff: 44.8%



Back View



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



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

