

CW-NZ-0202

1-8G PCB Antenna

Key Features

Frequency:1000-8000MHz

SMA Connector

Dimensions: 100*82*1.5mm

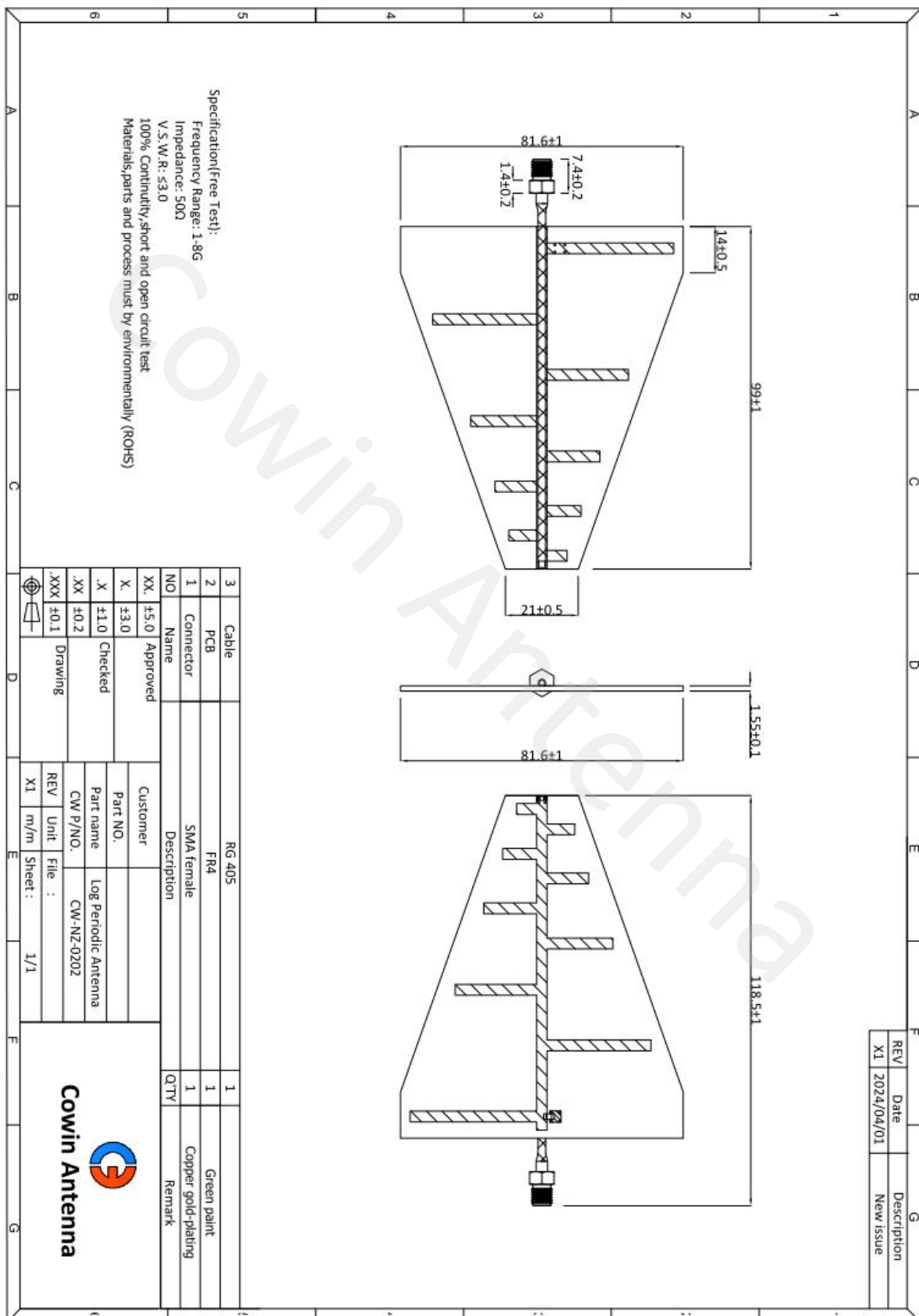


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	1000-8000MHz
VSWR	≤3.0
Efficiency (%)	89.85%
Peak Gain (dBi)	7.60
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/Cable/PCB
Cable Type	RG 405
Connector Type	SMA
Dimensions (mm)	100*82*1.5MM
Antenna color	Green
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

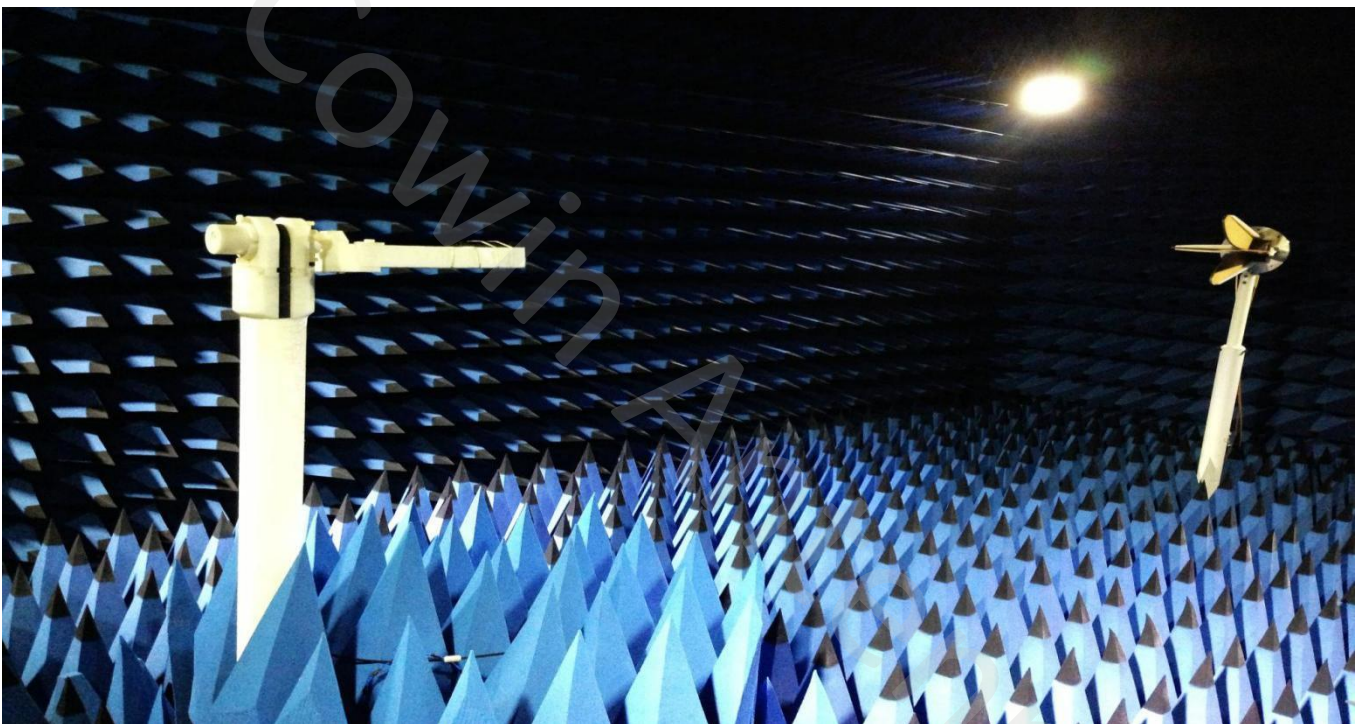
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

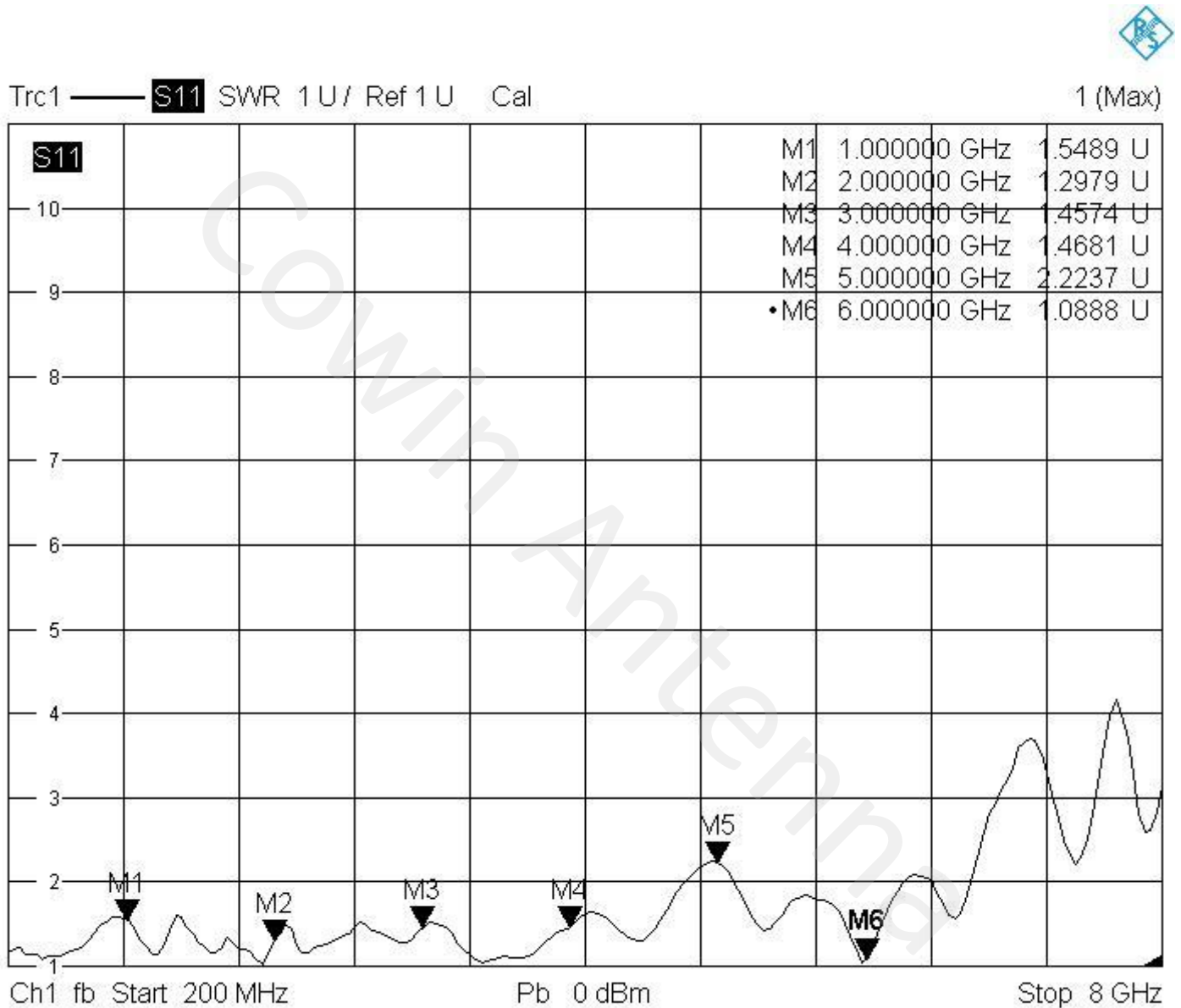
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

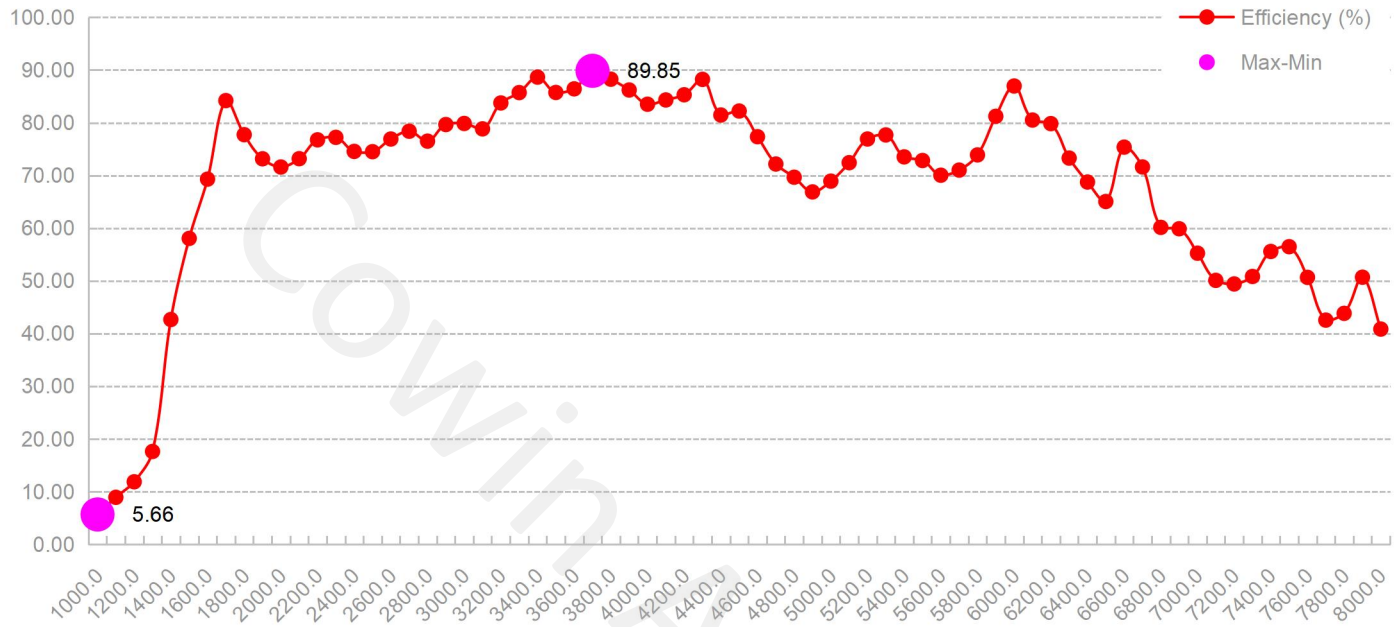
The comprehensive tester is Agilent cmv500



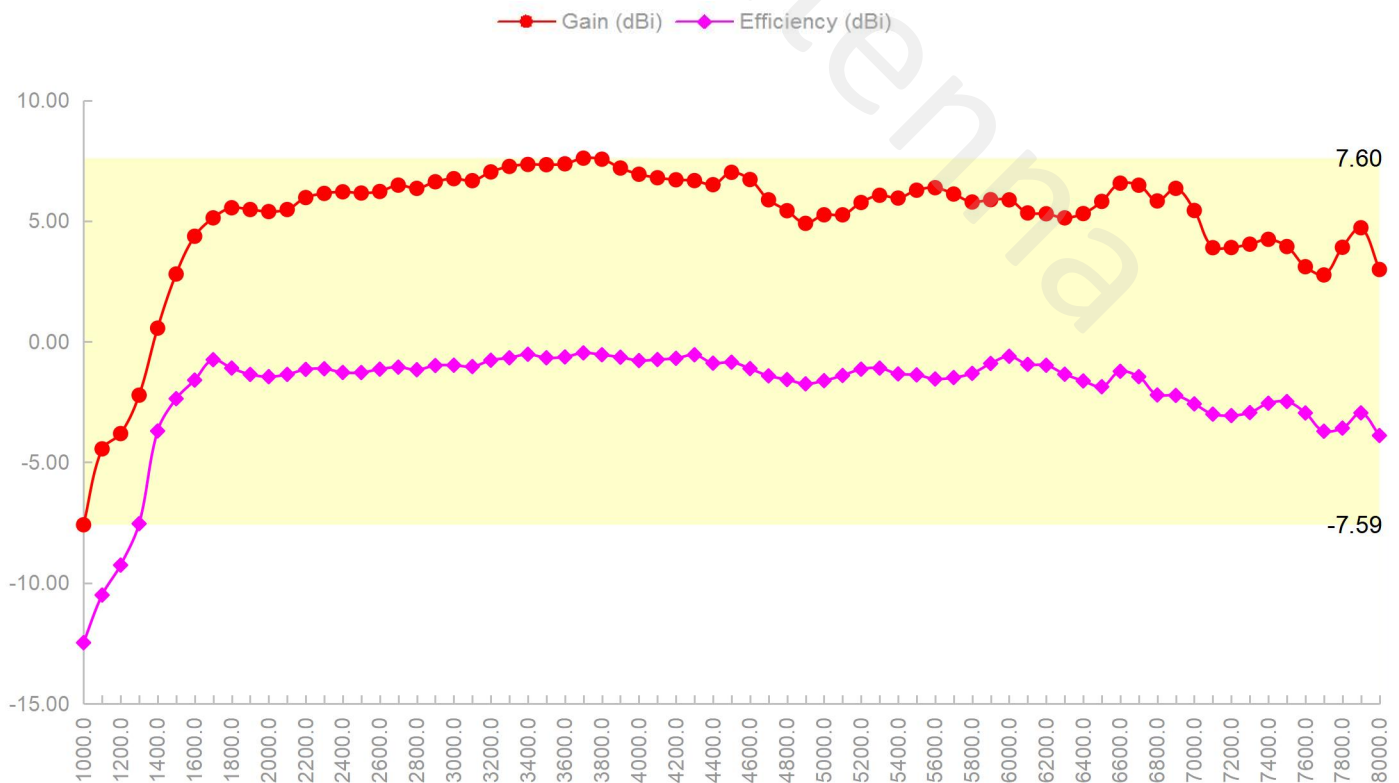
4.1 VSWR



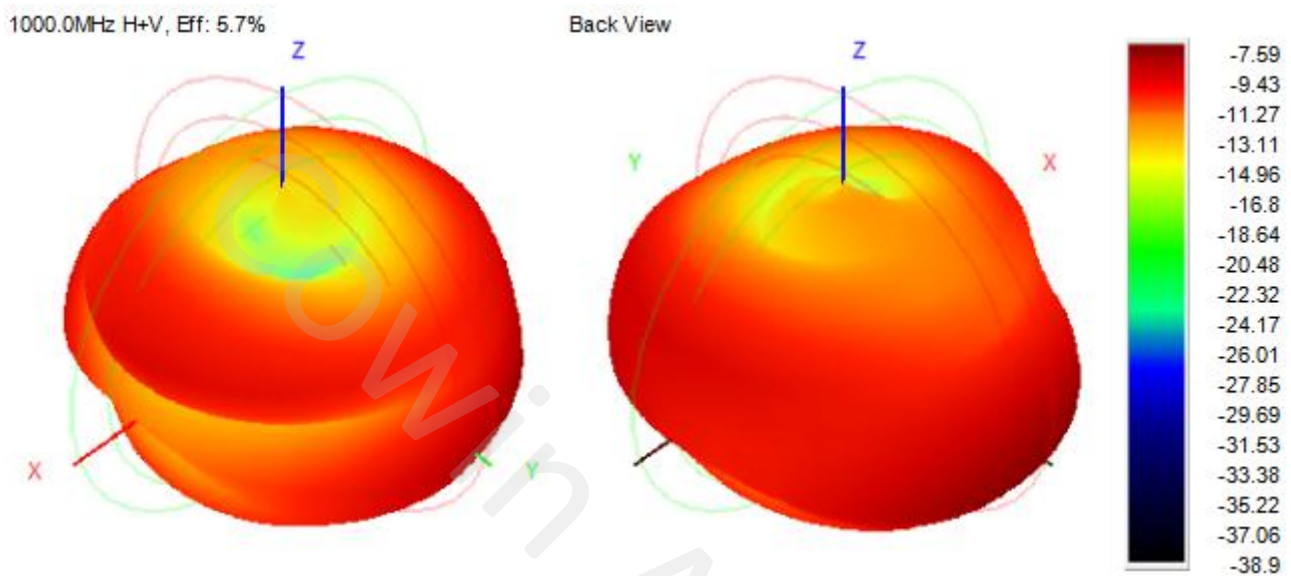
4.2 Efficiency



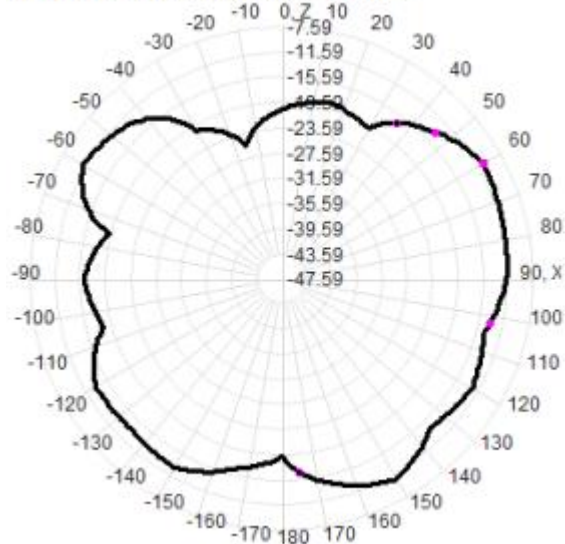
4.3 Peak gain



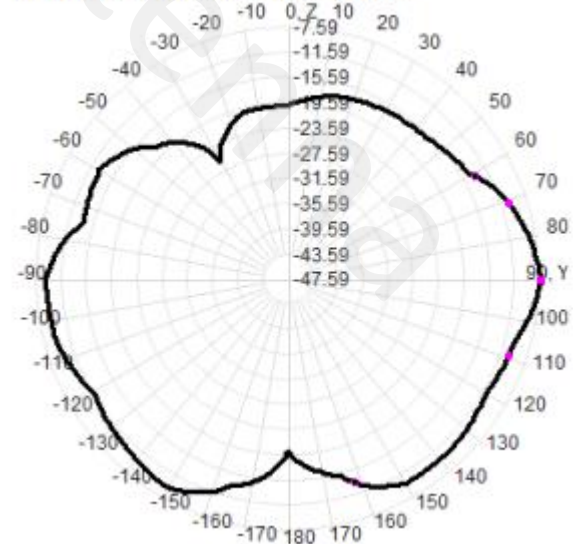
4.4 3D&2D Radiation Patterns



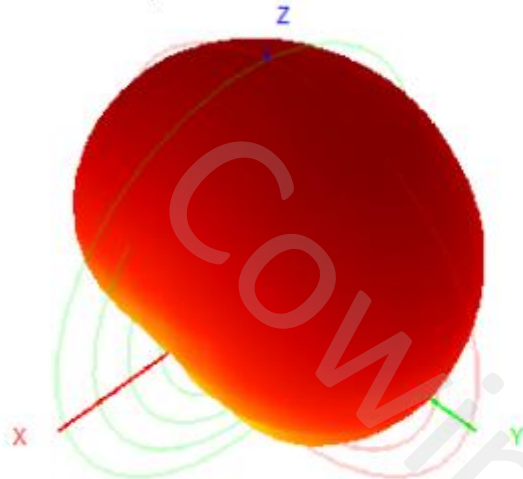
1000.0MHz Total(E1-XZ), Max= -10.87dBi



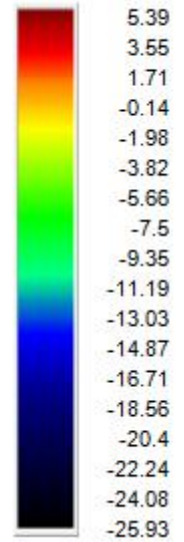
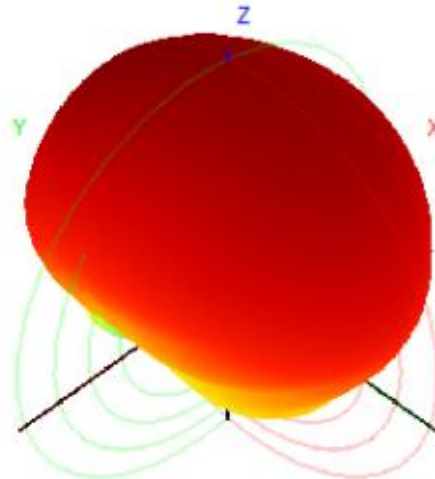
1000.0MHz Total(E2-YZ), Max= -7.59dBi



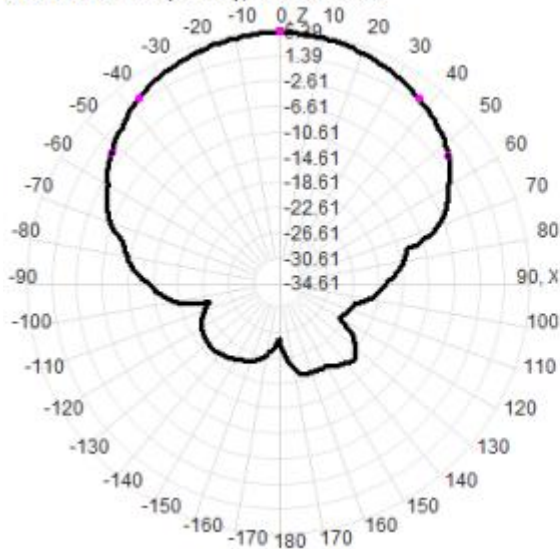
2000.0MHz H+V, Eff: 71.6%



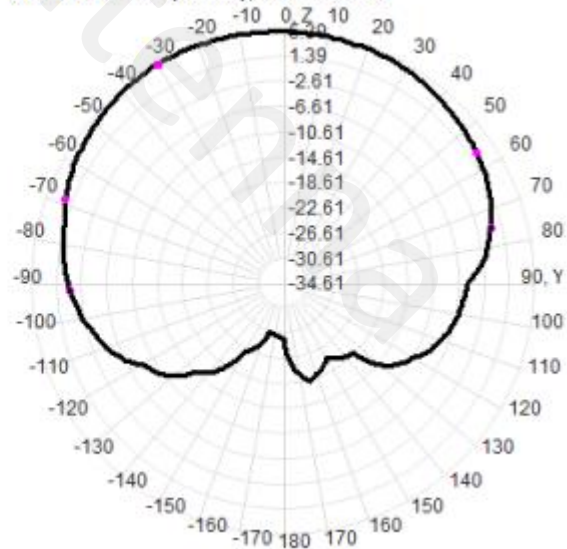
Back View

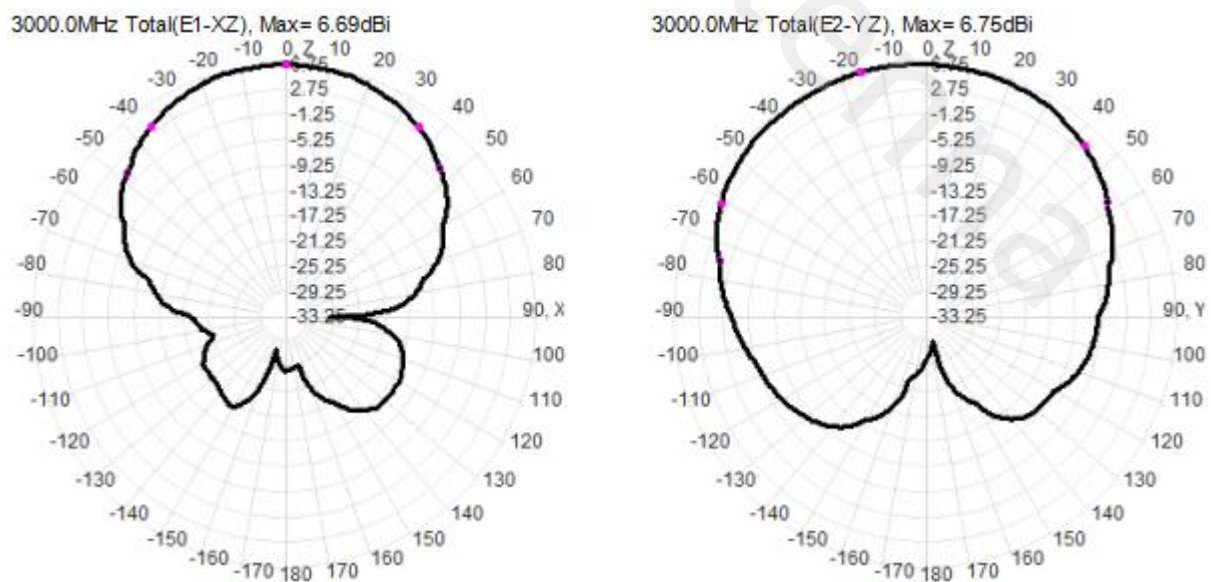
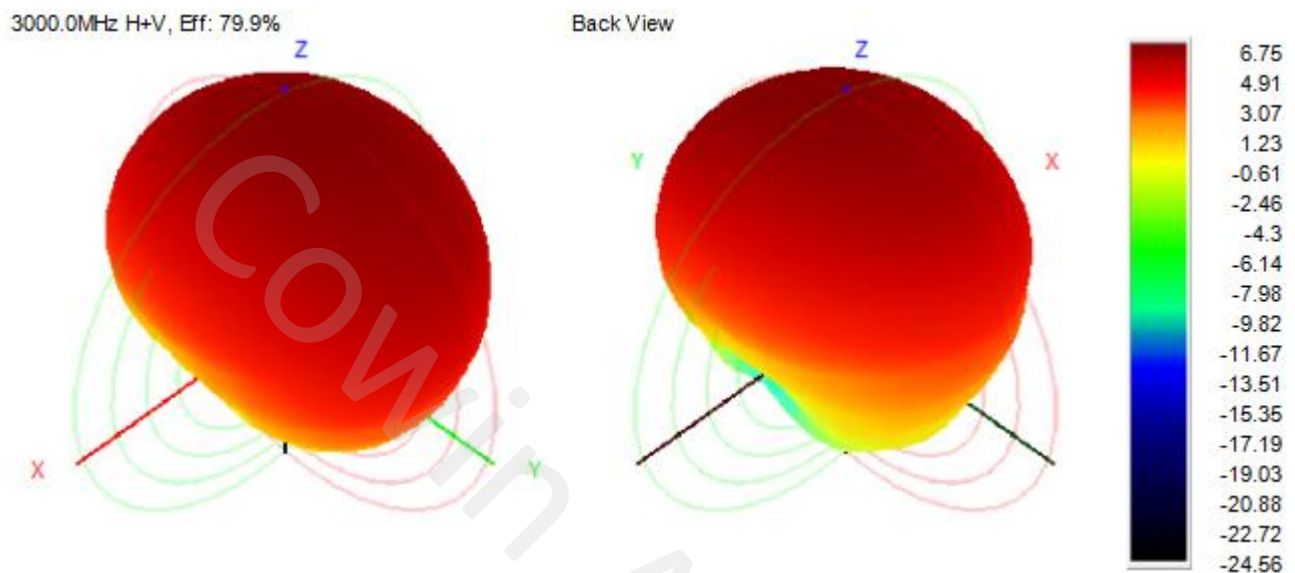


2000.0MHz Total(E1-XZ), Max= 5.23dBi



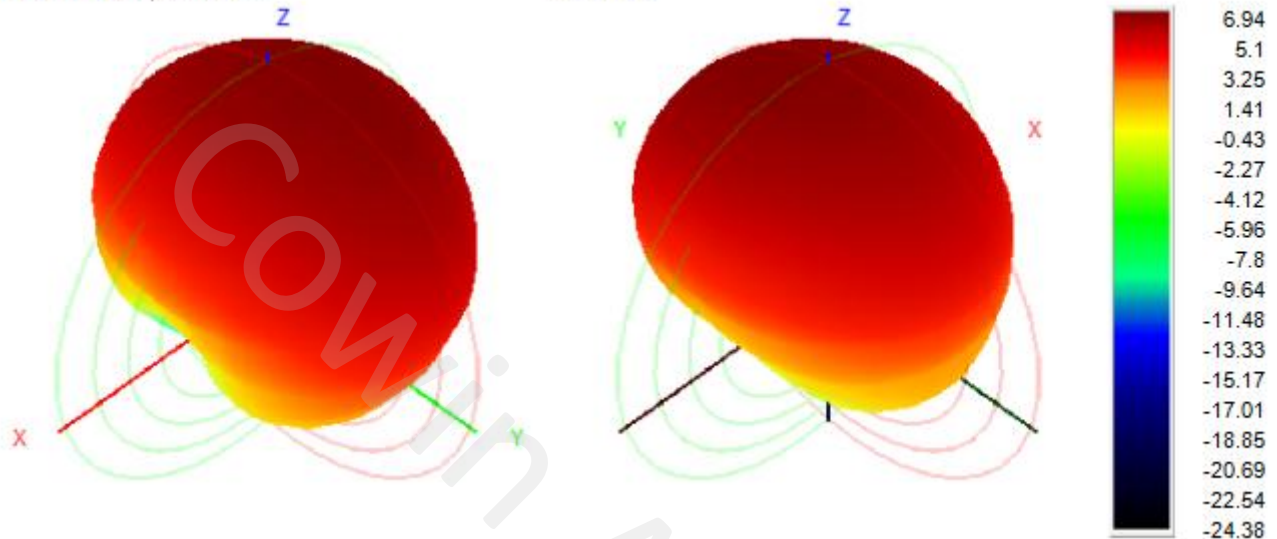
2000.0MHz Total(E2-YZ), Max= 5.39dBi



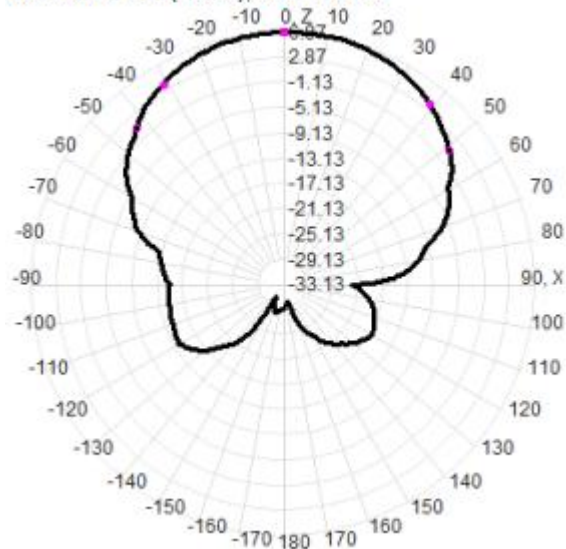


4000.0MHz H+V, Eff: 83.5%

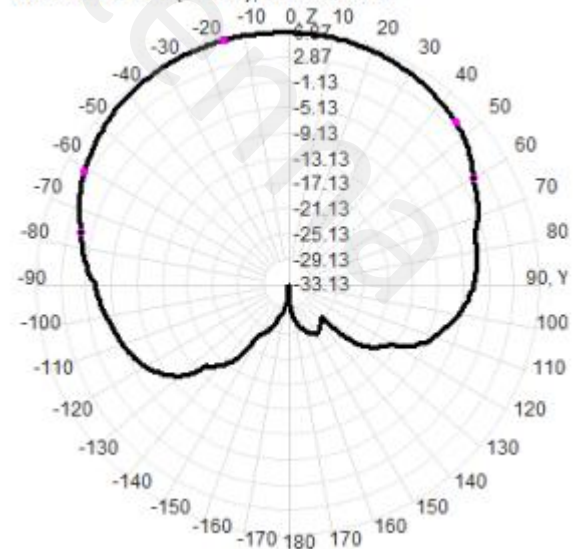
Back View



4000.0MHz Total(E1-XZ), Max= 6.87dBi

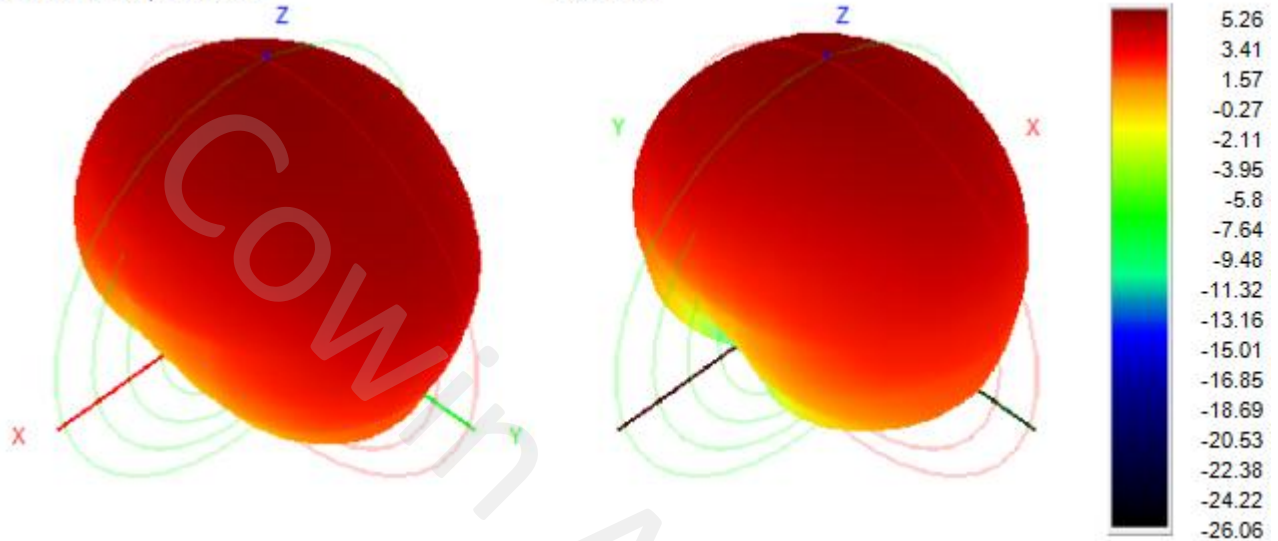


4000.0MHz Total(E2-YZ), Max= 6.82dBi



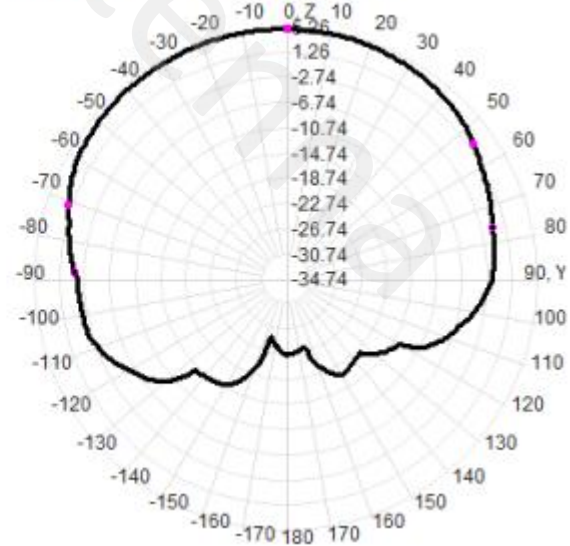
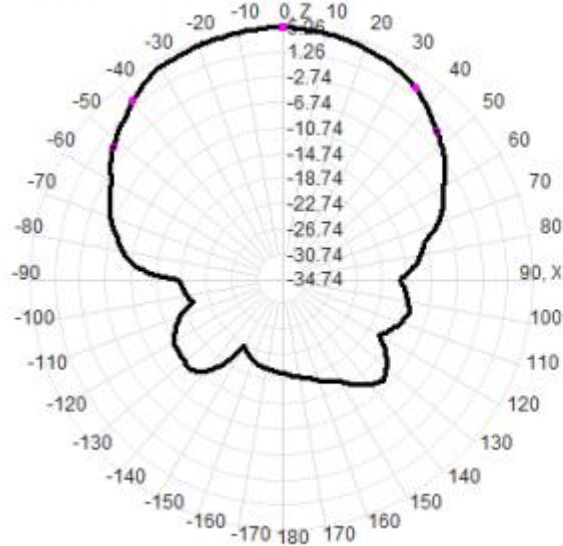
5000.0MHz H+V, Eff: 68.9%

Back View



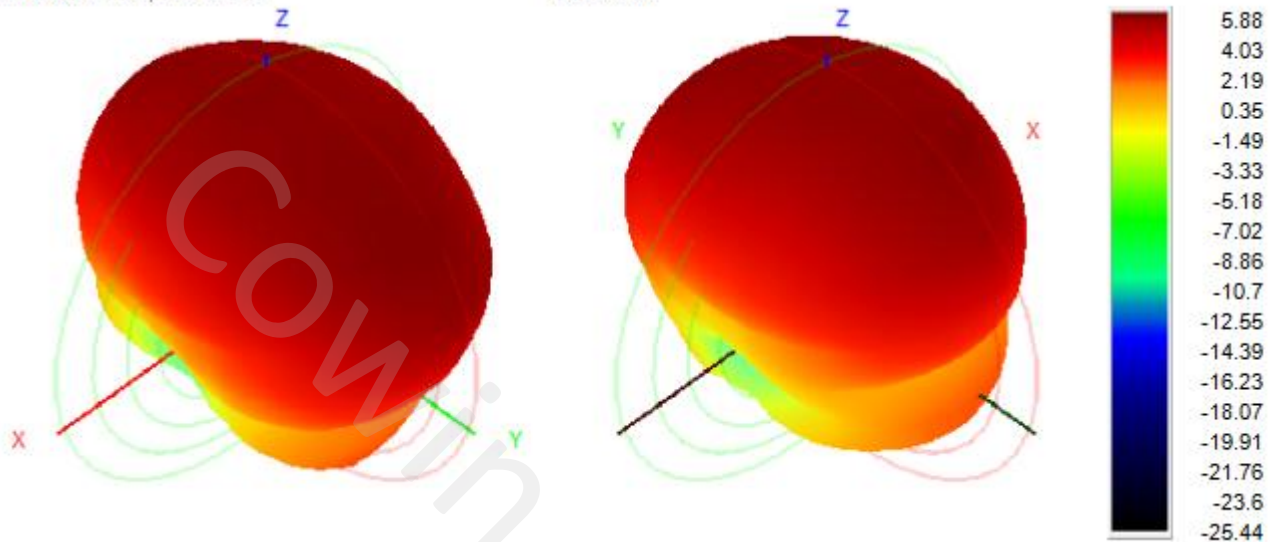
5000.0MHz Total(E1-XZ), Max= 5.26dBi

5000.0MHz Total(E2-YZ), Max= 4.92dBi



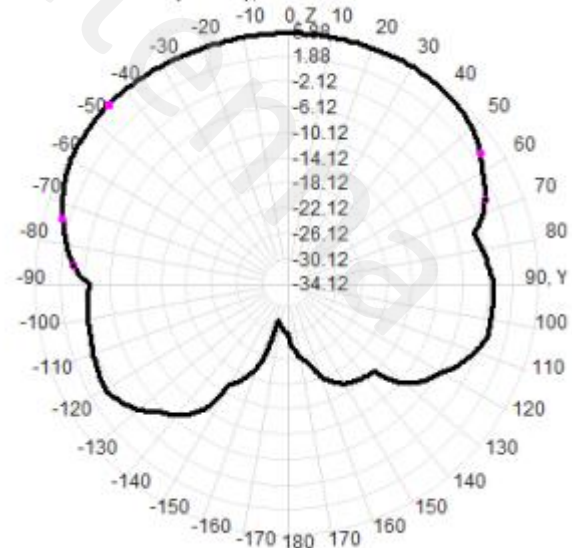
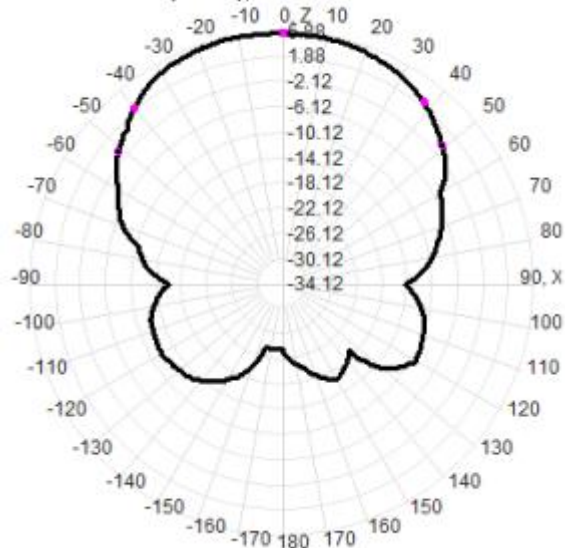
6000.0MHz H+V, Eff: 87.0%

Back View



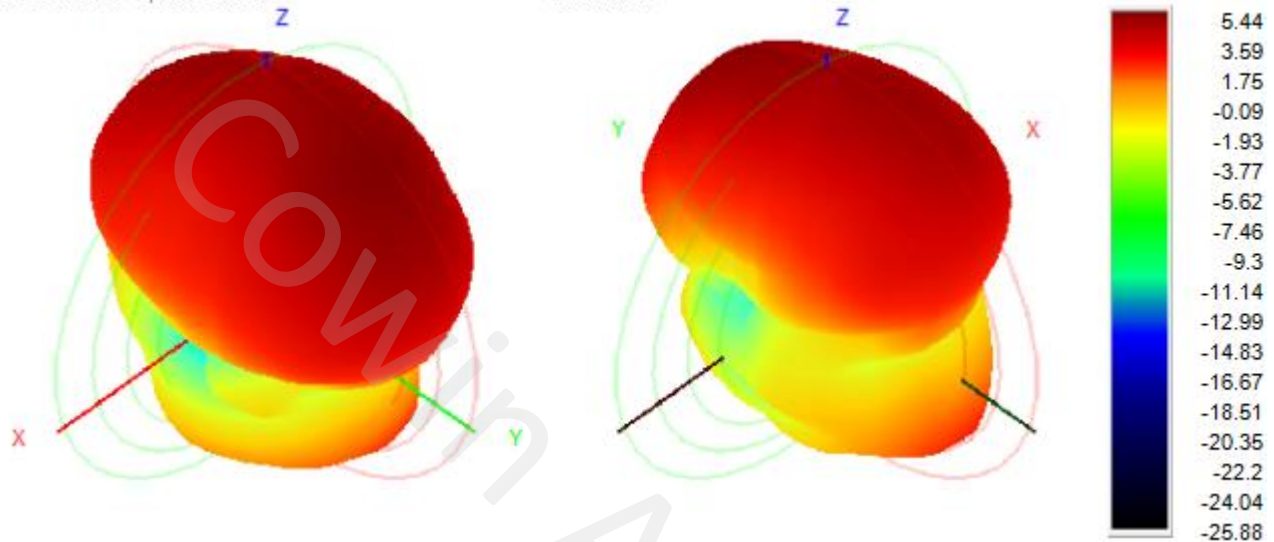
6000.0MHz Total(E1-XZ), Max= 5.47dBi

6000.0MHz Total(E2-YZ), Max= 5.88dBi



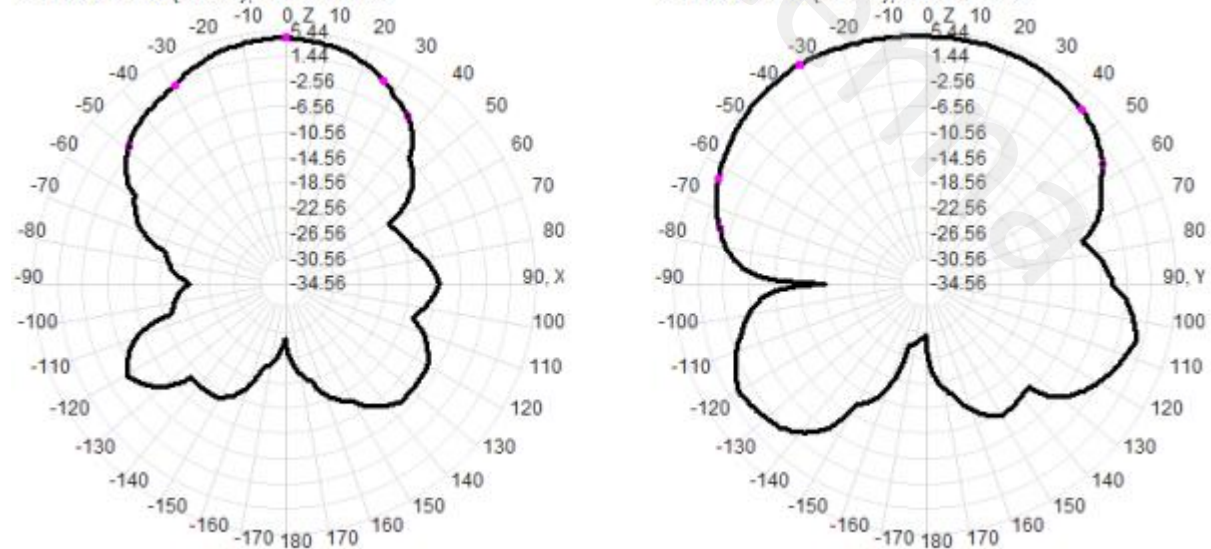
7000.0MHz H+V, Eff: 55.2%

Back View



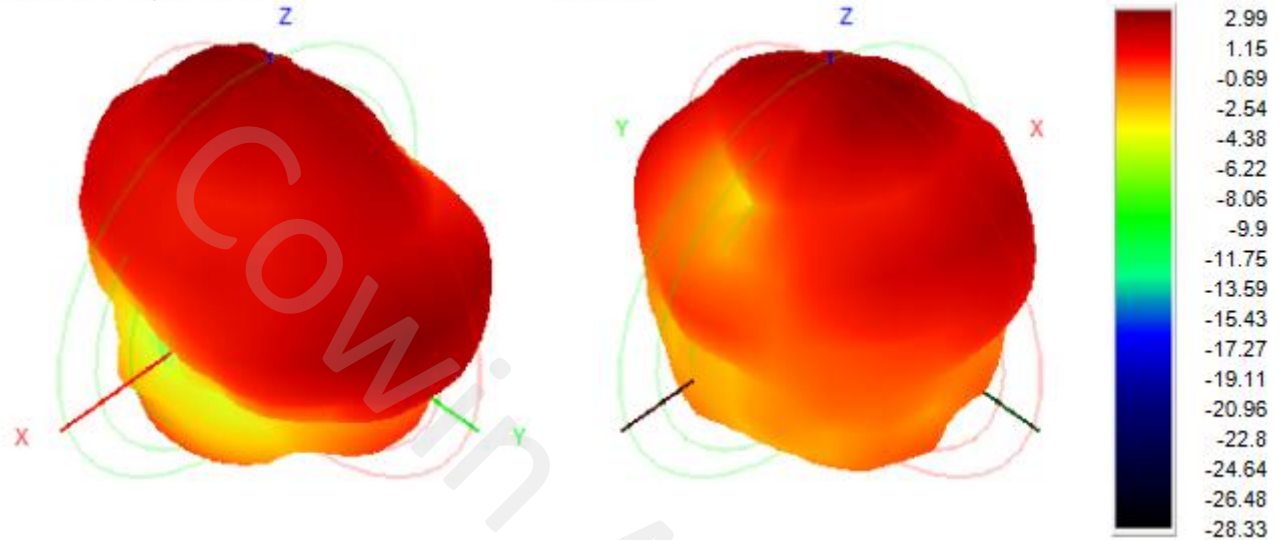
7000.0MHz Total(E1-XZ), Max= 4.37dBi

7000.0MHz Total(E2-YZ), Max= 5.44dBi



8000.0MHz H+V, Eff: 40.8%

Back View



8000.0MHz Total(E1-XZ), Max= 2.15dBi

8000.0MHz Total(E2-YZ), Max= 2.81dBi

