

CW-WZ-0027

Lora External Antenna

Key Features

Frequency: 868MHz

SMA Male Connector

External Rubber

Dimensions 195mm

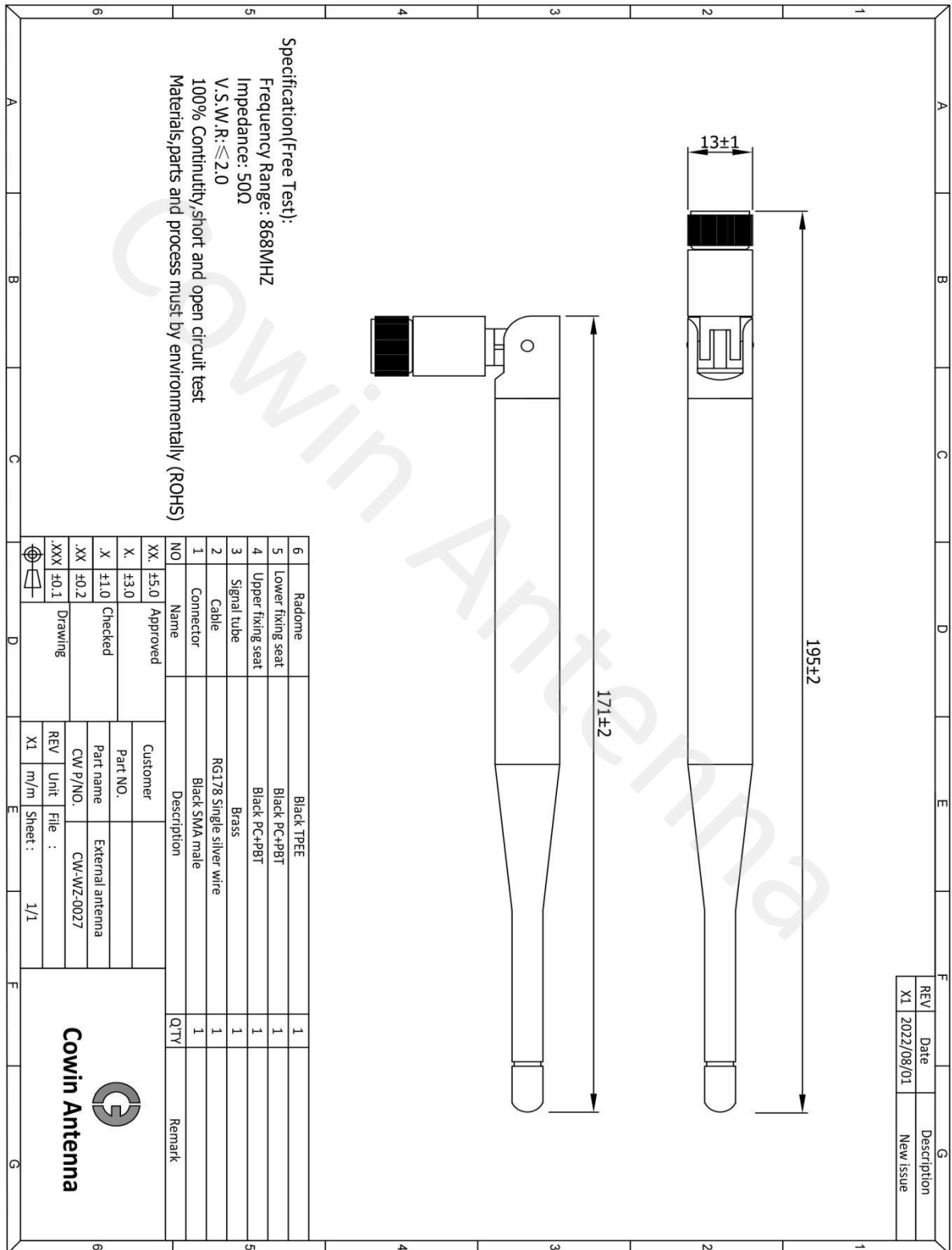


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	868MHz
VSWR	2.0
Efficiency (%)	73.8%
Peak Gain (dBi)	1.96
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	TPEE/PC+PBT
Cable Type	RG178
Connector Type	SMA Male
Dimensions (mm)	195MM
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

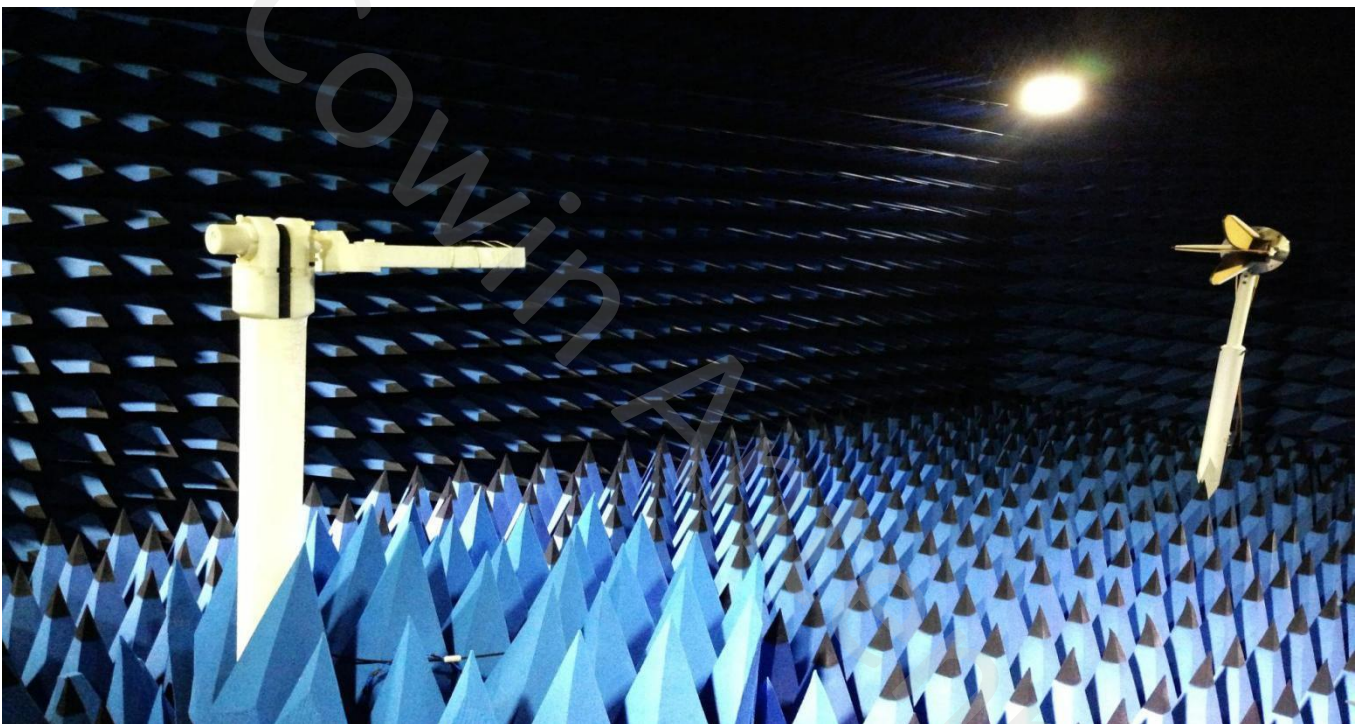
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

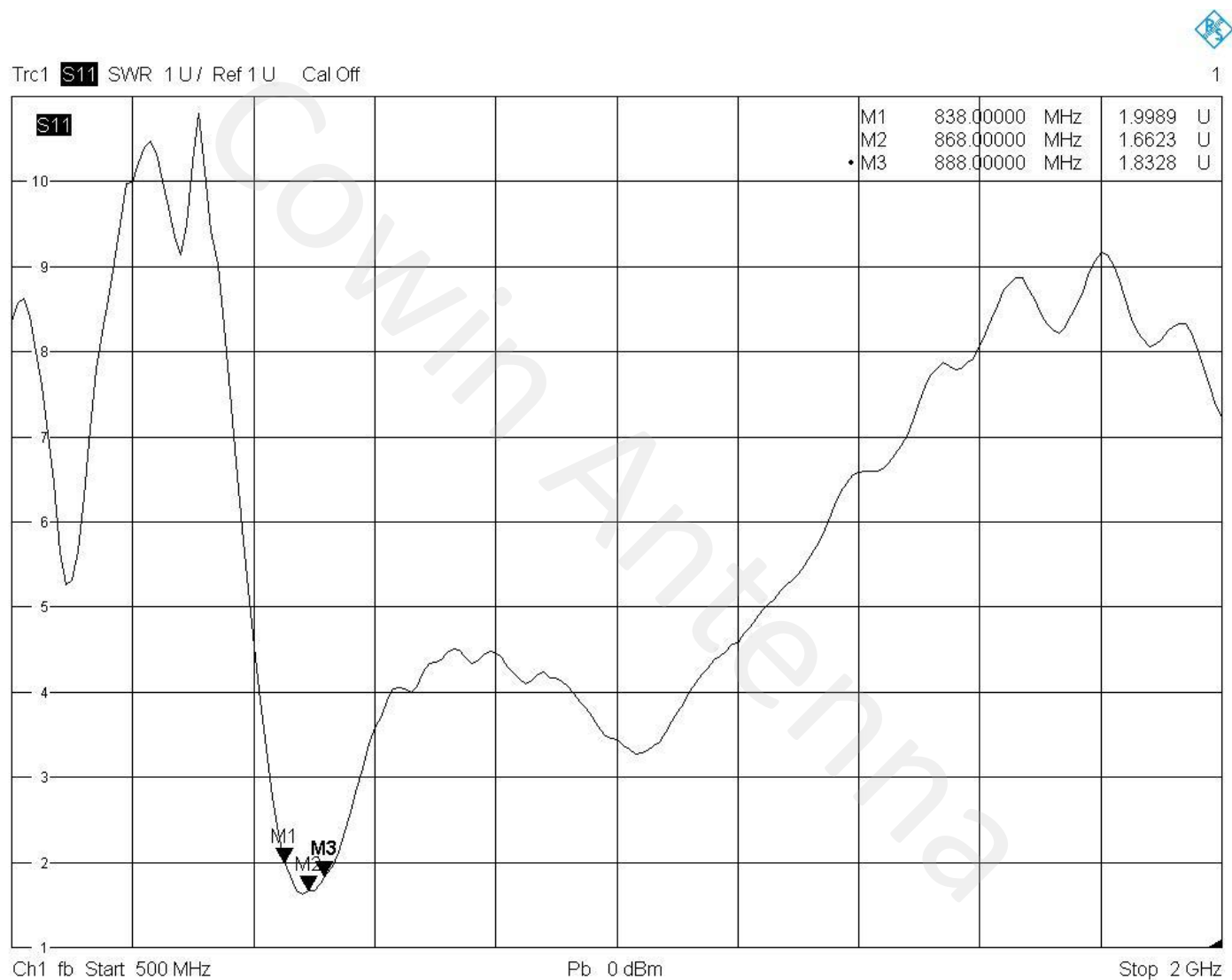
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

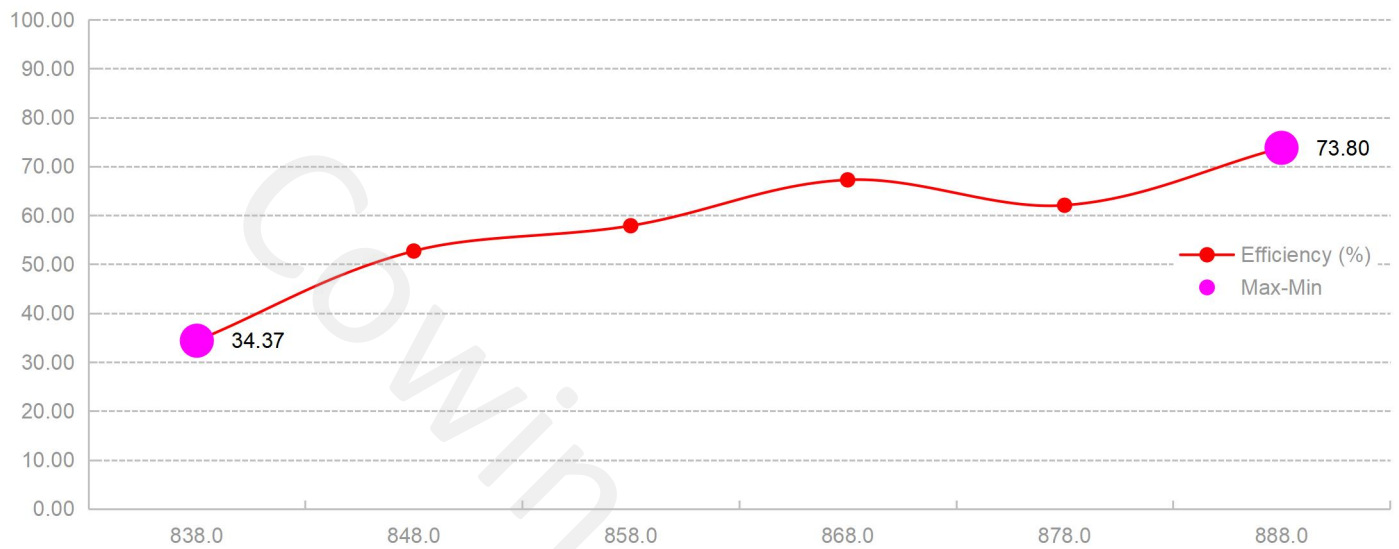


4.1 VSWR

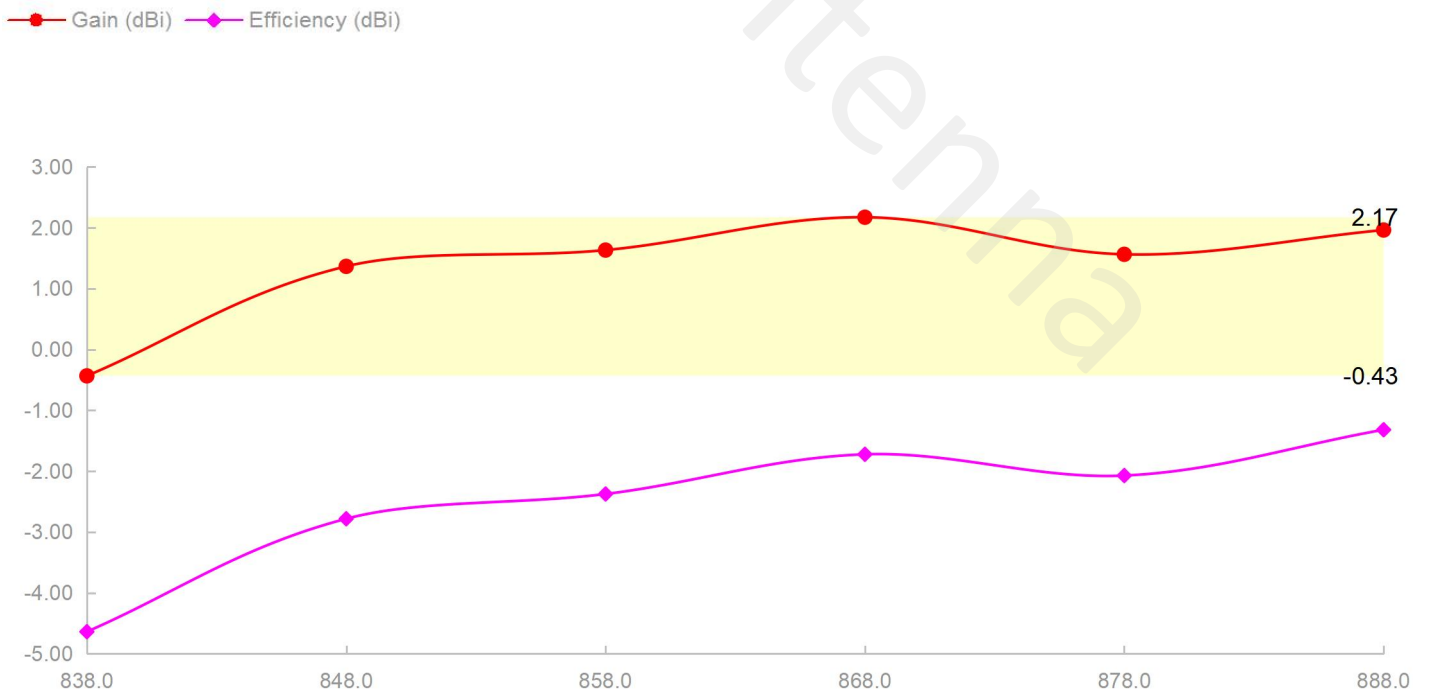


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4.2 Efficiency



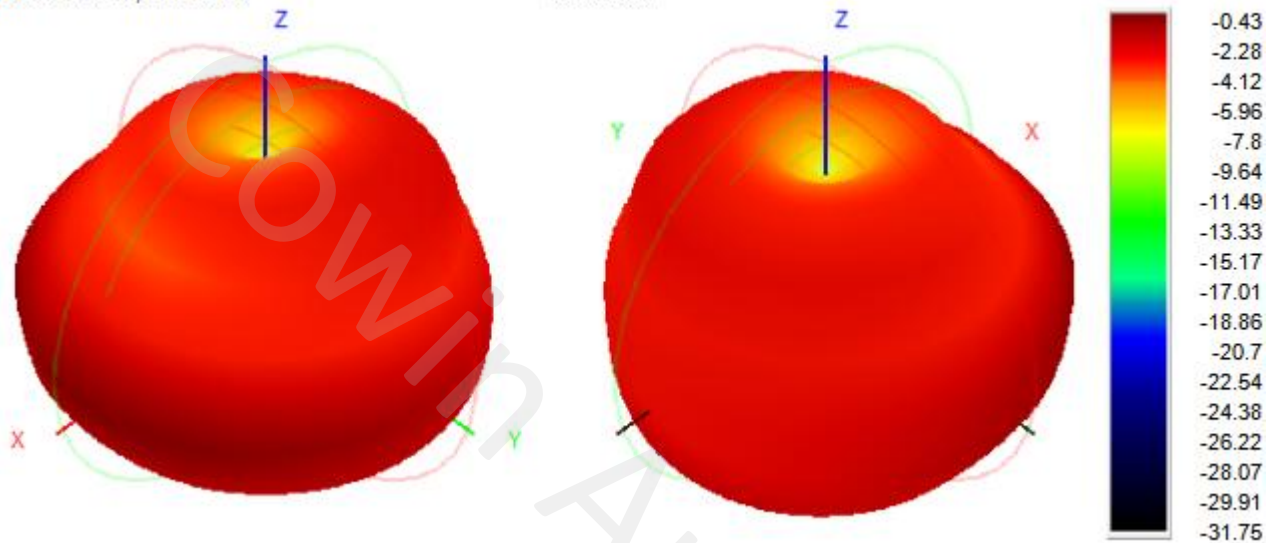
4.3 Peak gain



4.4 3D&2D Radiation Patterns

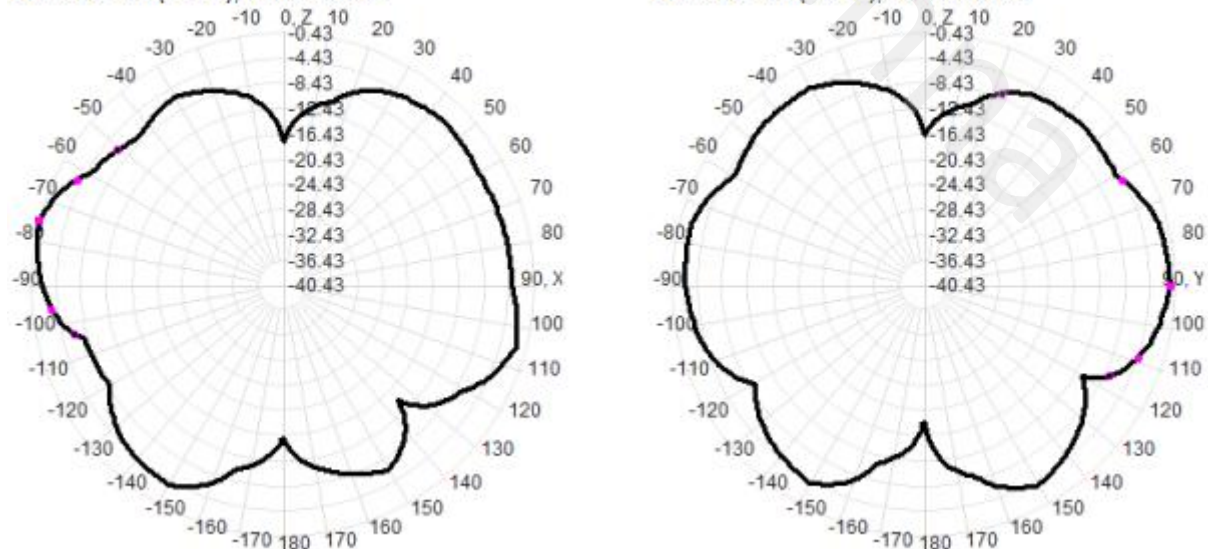
838.0MHz H+V, Eff: 34.4%

Back View



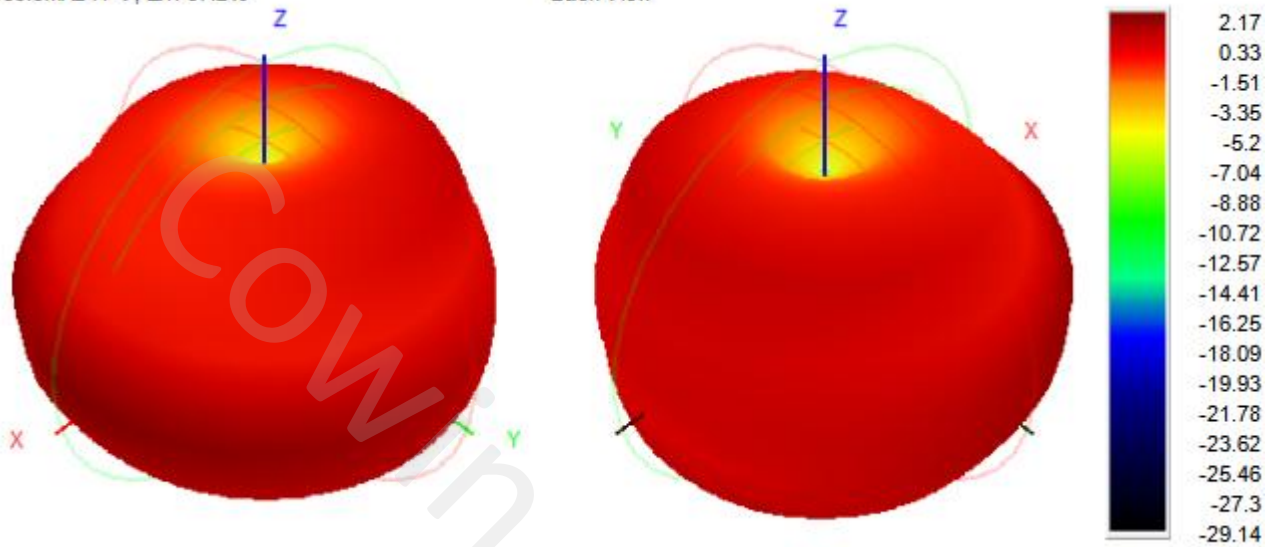
838.0MHz Total(E1-XZ), Max= -0.43dBi

838.0MHz Total(E2-YZ), Max= -1.56dBi

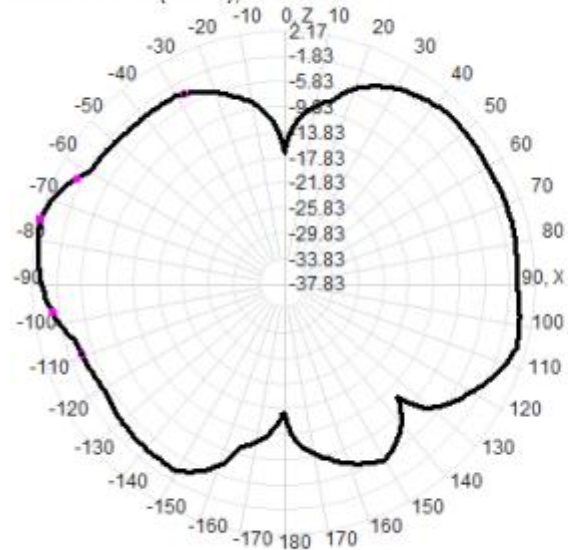


868.0MHz H+V, Eff: 67.2%

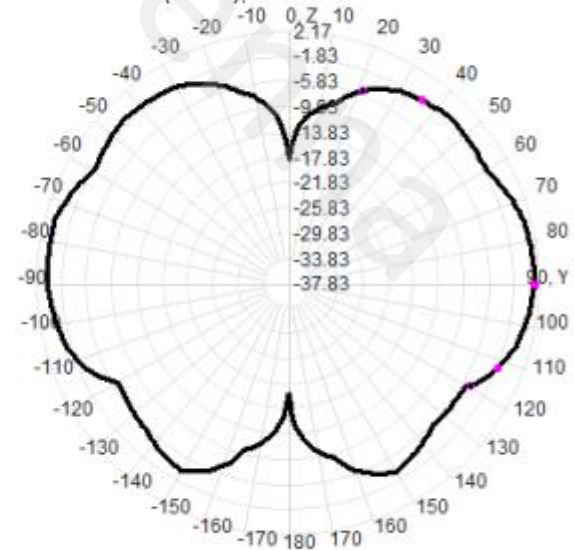
Back View



868.0MHz Total(E1-XZ), Max= 2.17dBi

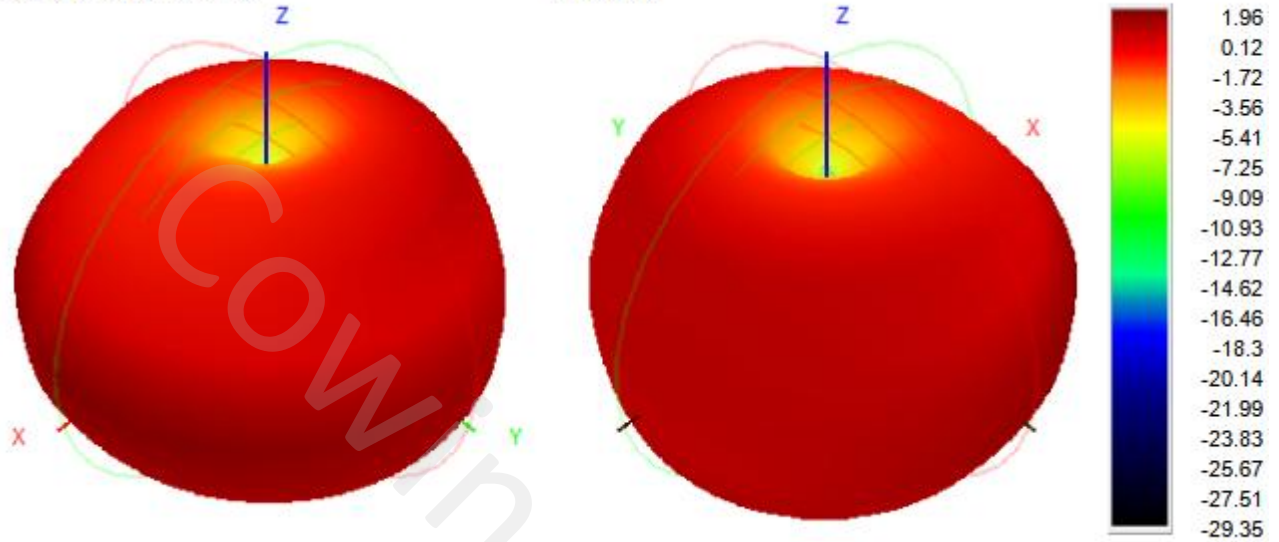


868.0MHz Total(E2-YZ), Max= 1.17dBi



888.0MHz H+V, Eff: 73.8%

Back View



888.0MHz Total(E1-XZ), Max= 1.94dBi

888.0MHz Total(E2-YZ), Max= 1.32dBi

