

CW-WZ-0141

Lora External Antenna

Key Features

Frequency: 868MHz

IPEX Connector

External Rubber

Dimensions 43.3*12 mm

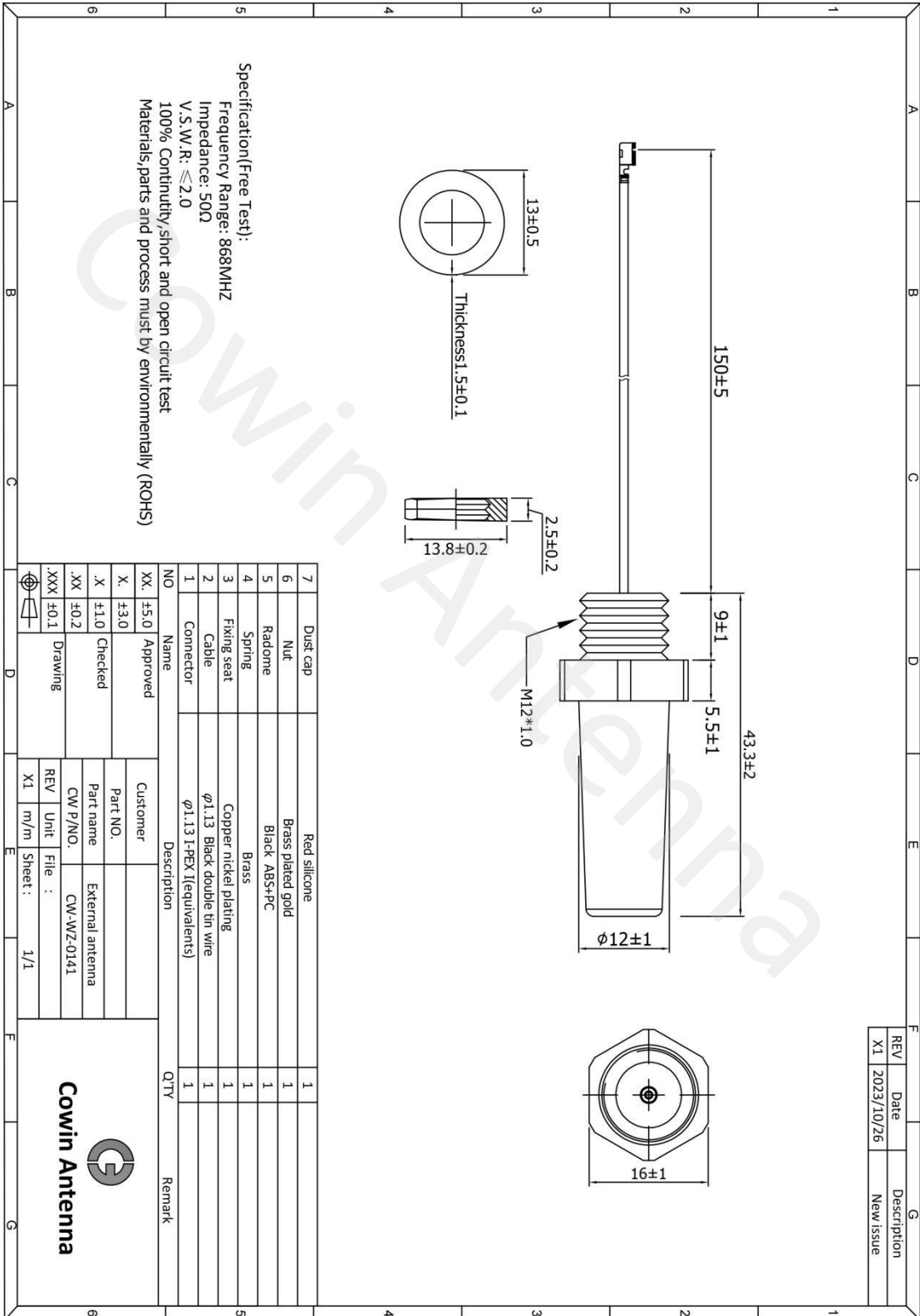


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	868MHz
VSWR	2.0
Efficiency (%)	73.8%
Peak Gain (dBi)	2.17
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	IPEX

2. Material and environmental characteristics

Inner structure	Spring
Material of Plastic	ABS+PC
Cable Type	RF1.13
Connector Type	IPEX
Dimensions (mm)	43.3*12MM
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

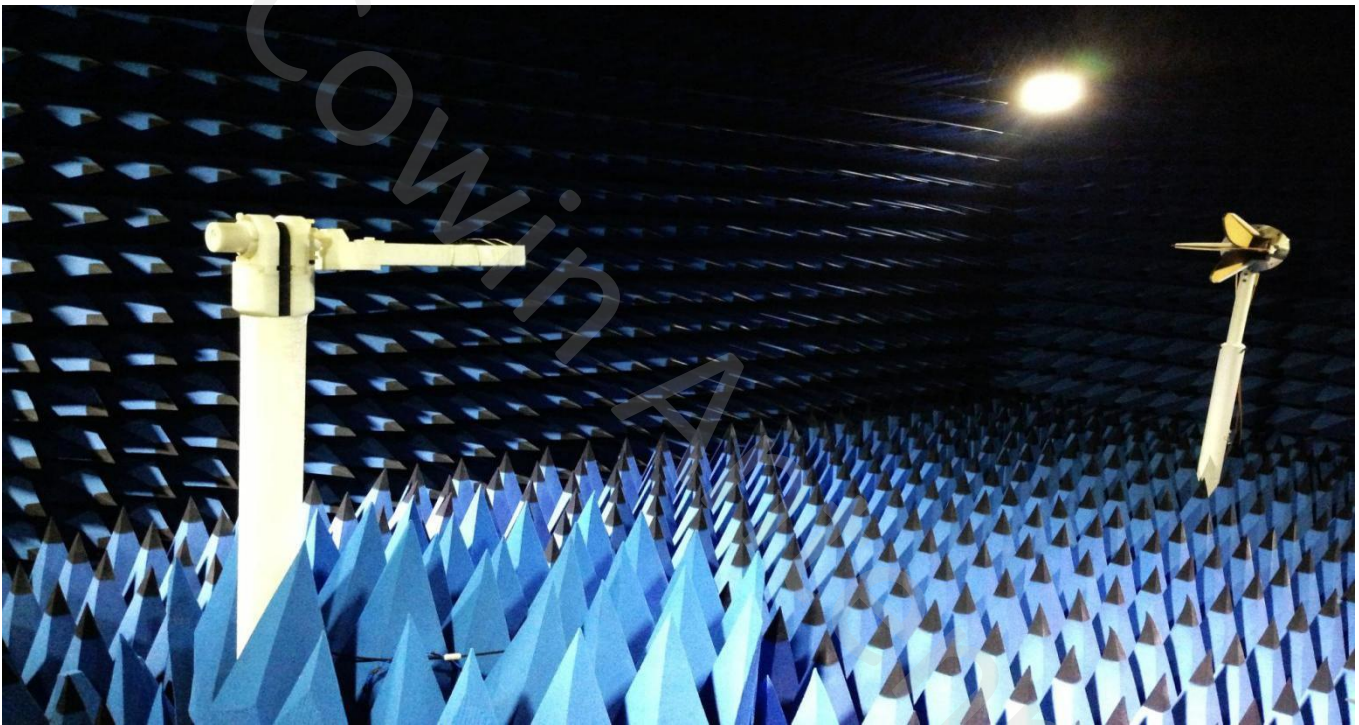
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

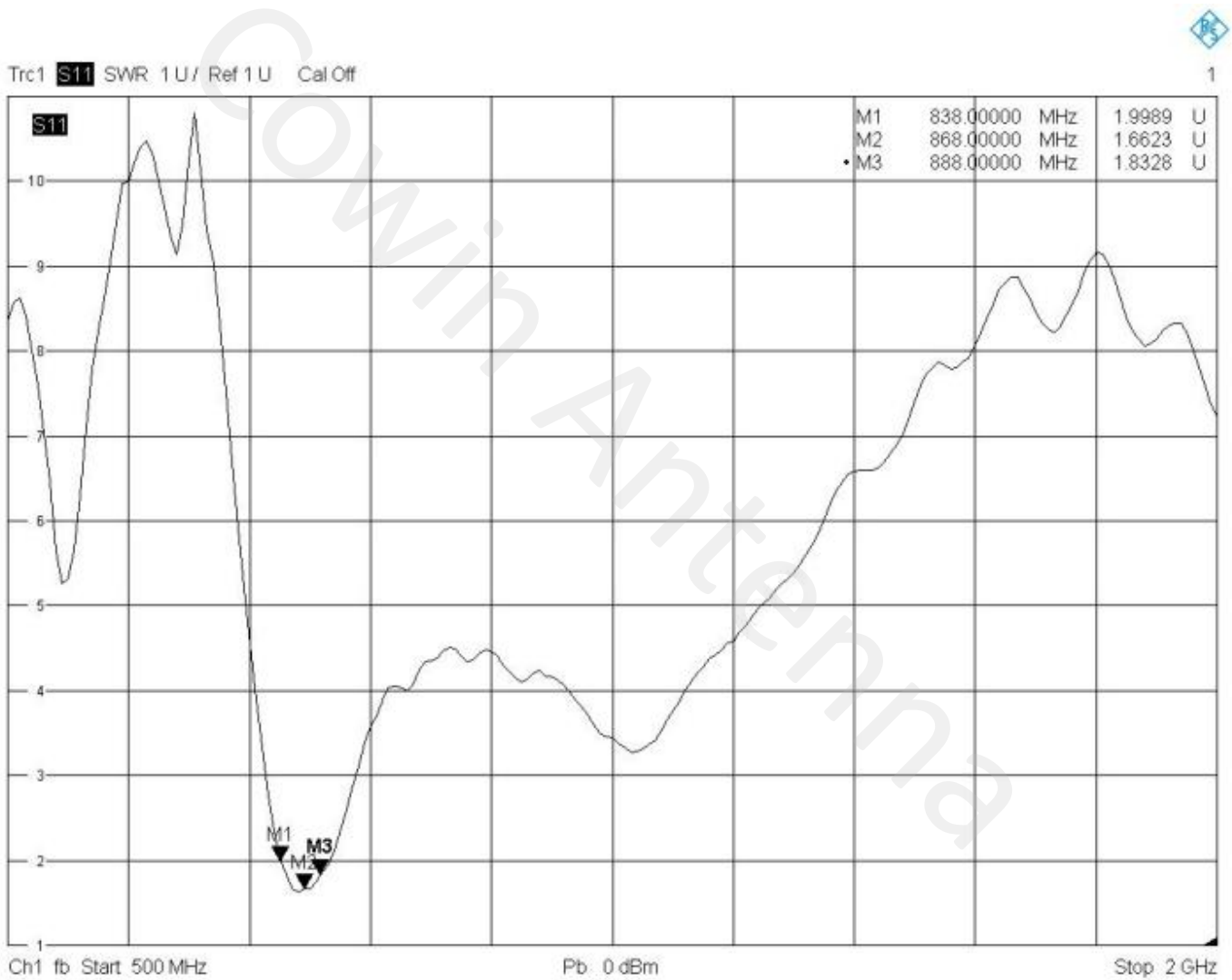
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

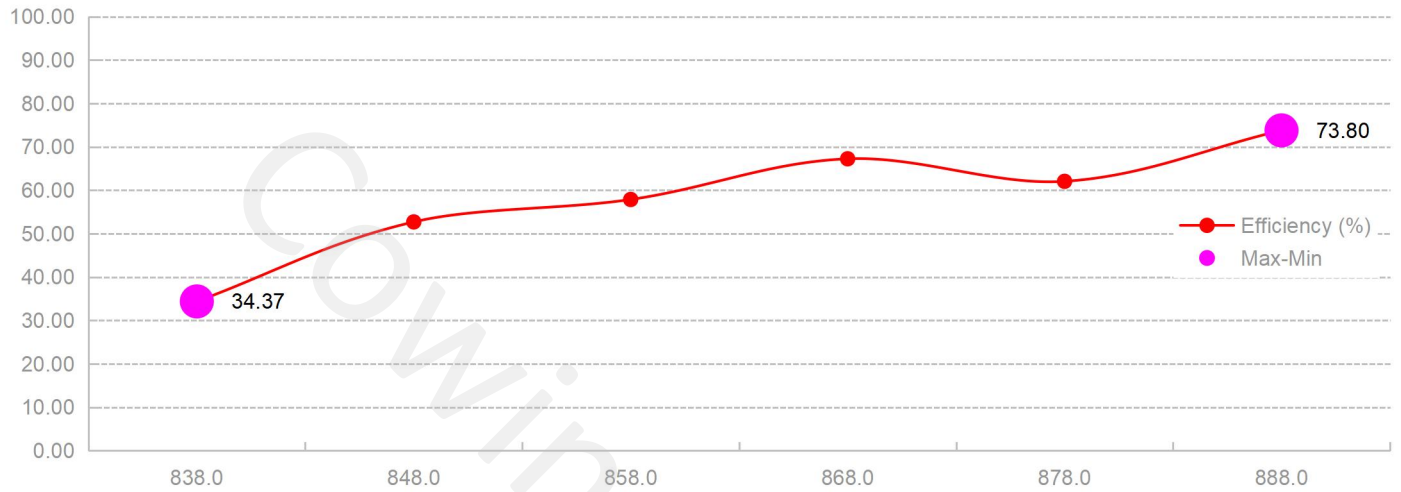
The comprehensive tester is Agilent cmv500



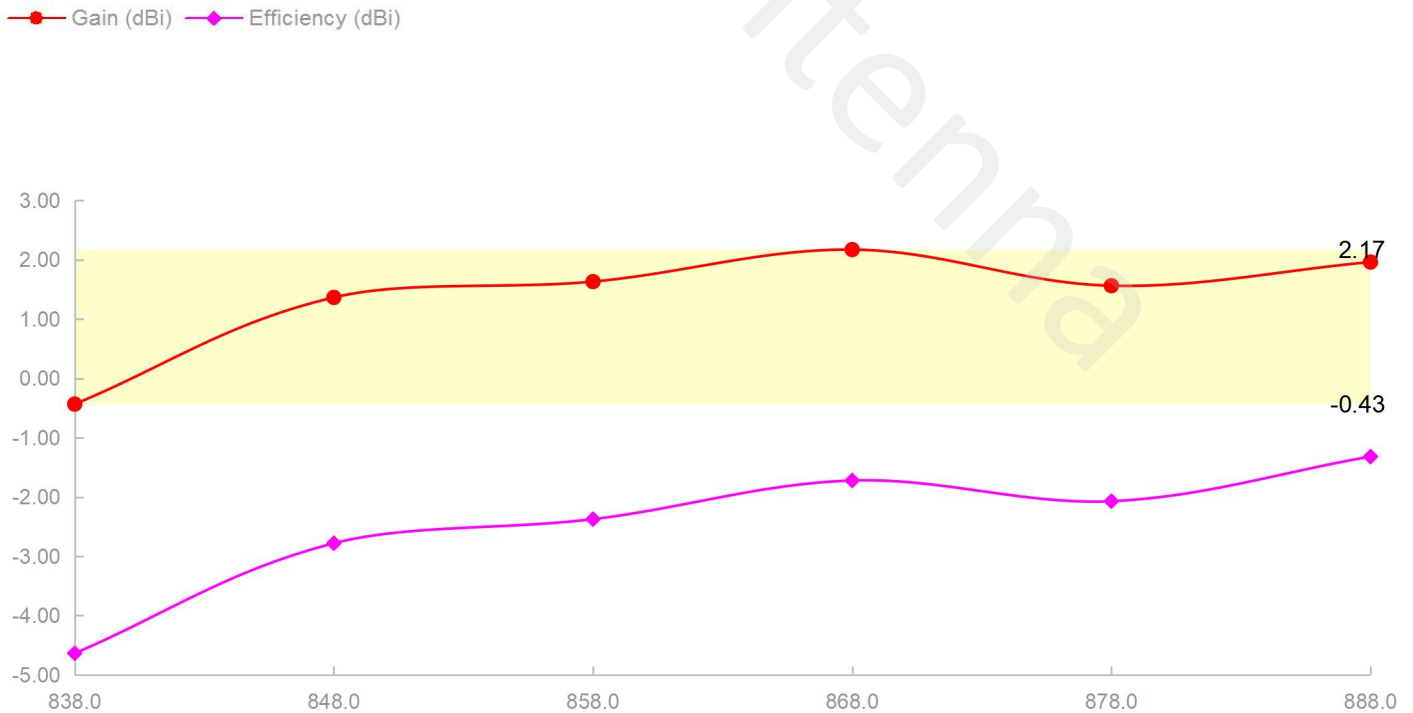
4.1 VSWR



4.2 Efficiency



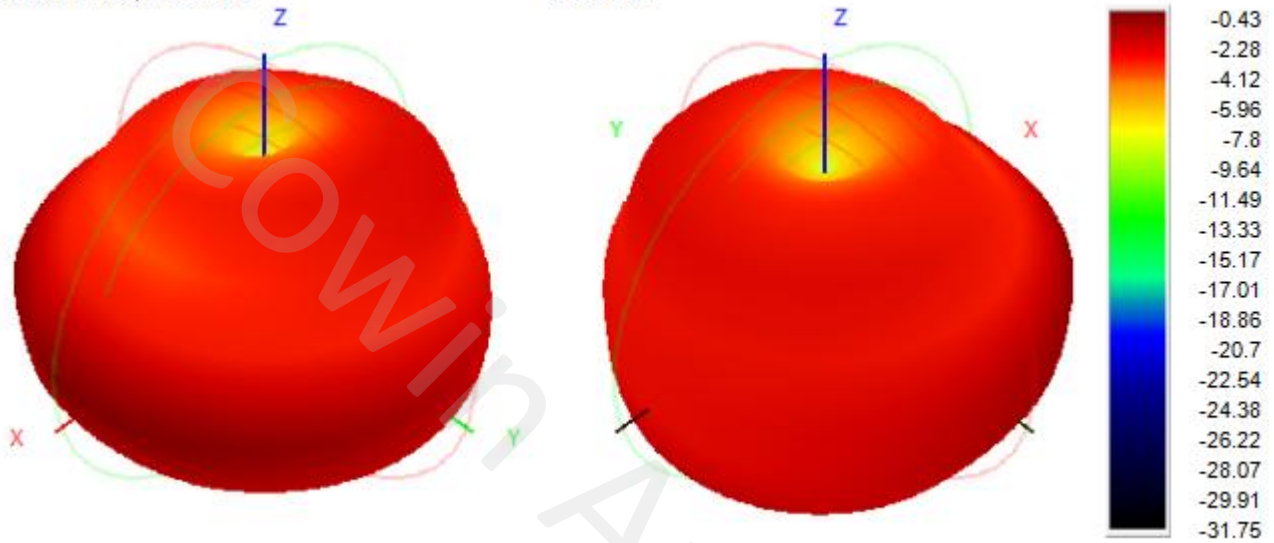
4.3 Peak gain



4.4 3D&2D Radiation Patterns

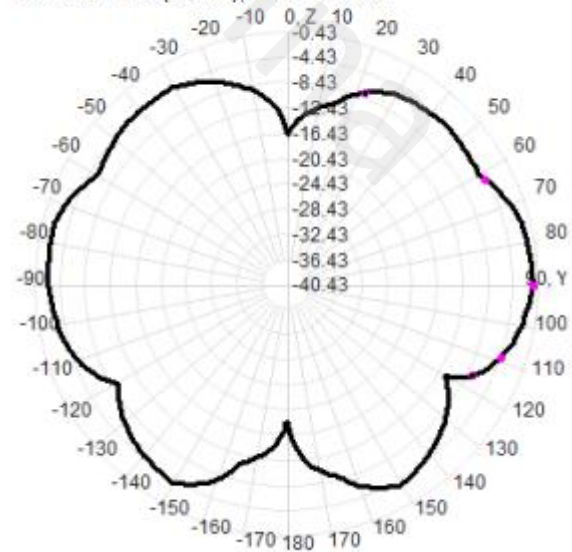
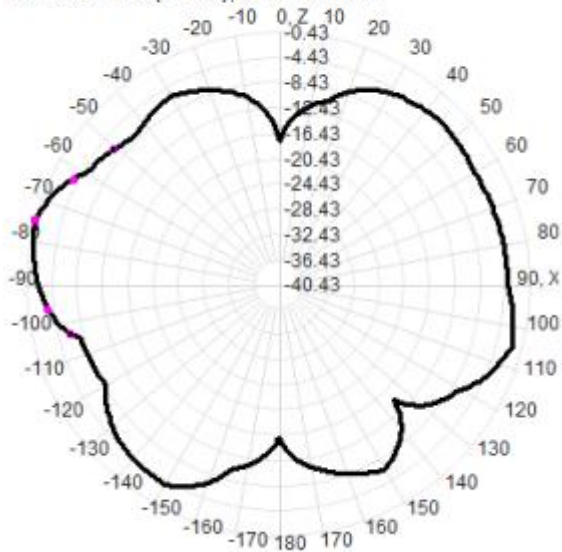
838.0MHz H+V, Eff: 34.4%

Back View

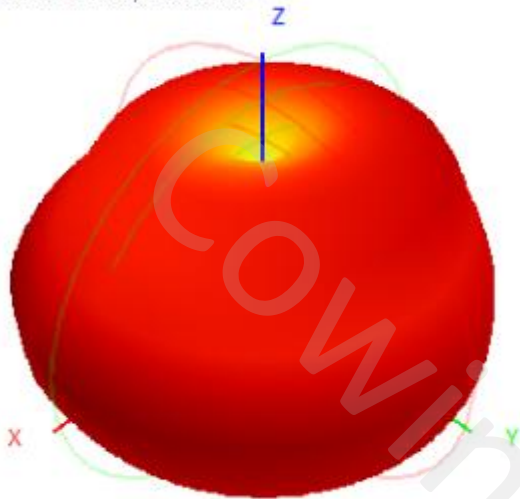


838.0MHz Total(E1-XZ), Max=-0.43dBi

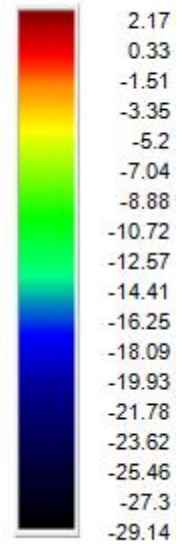
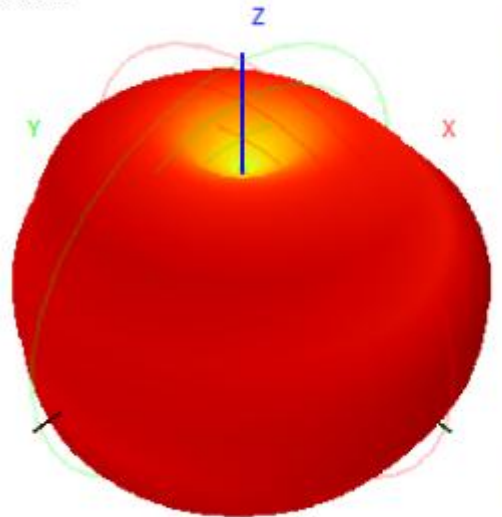
838.0MHz Total(E2-YZ), Max=-1.56dBi



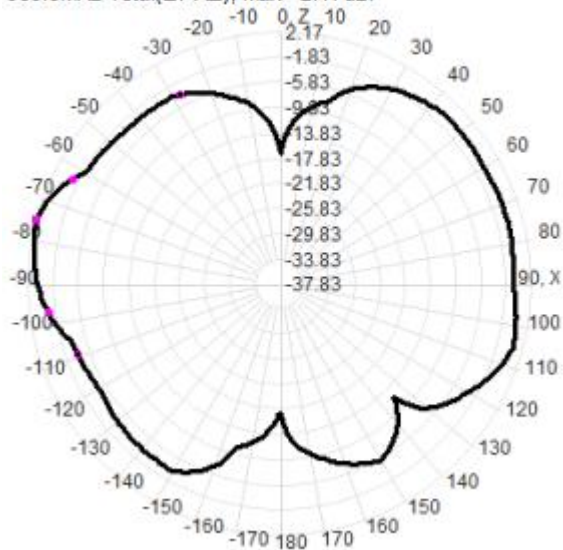
868.0MHz H+V, Eff: 67.2%



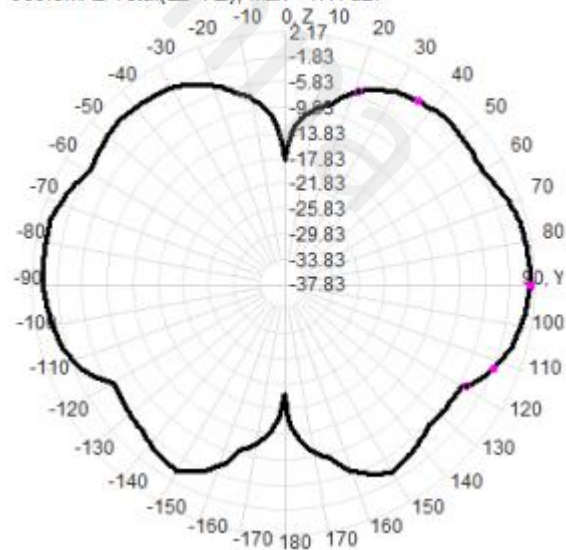
Back View



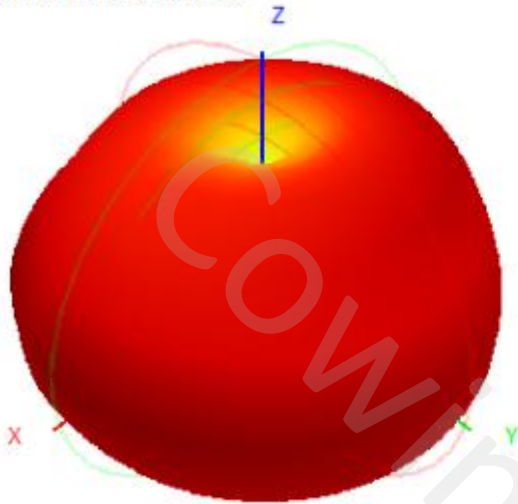
868.0MHz Total(E1-XZ), Max= 2.17dBi



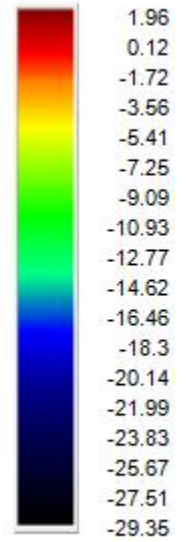
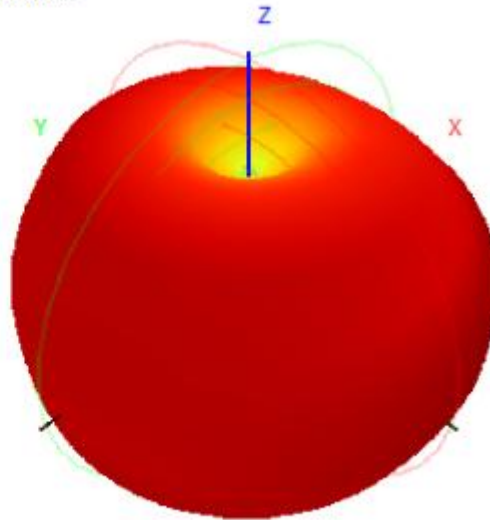
868.0MHz Total(E2-YZ), Max= 1.17dBi



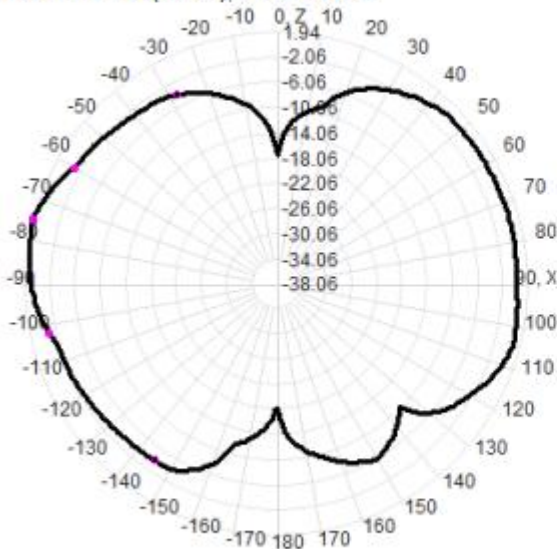
888.0MHz H+V, Eff: 73.8%



Back View



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



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

