

CW-WZ-0145

868MHZ/915MHZ External Antenna

Key Features

Frequency:868MHZ/915MHZ

SMA Connector

Dimensions:158*17mm

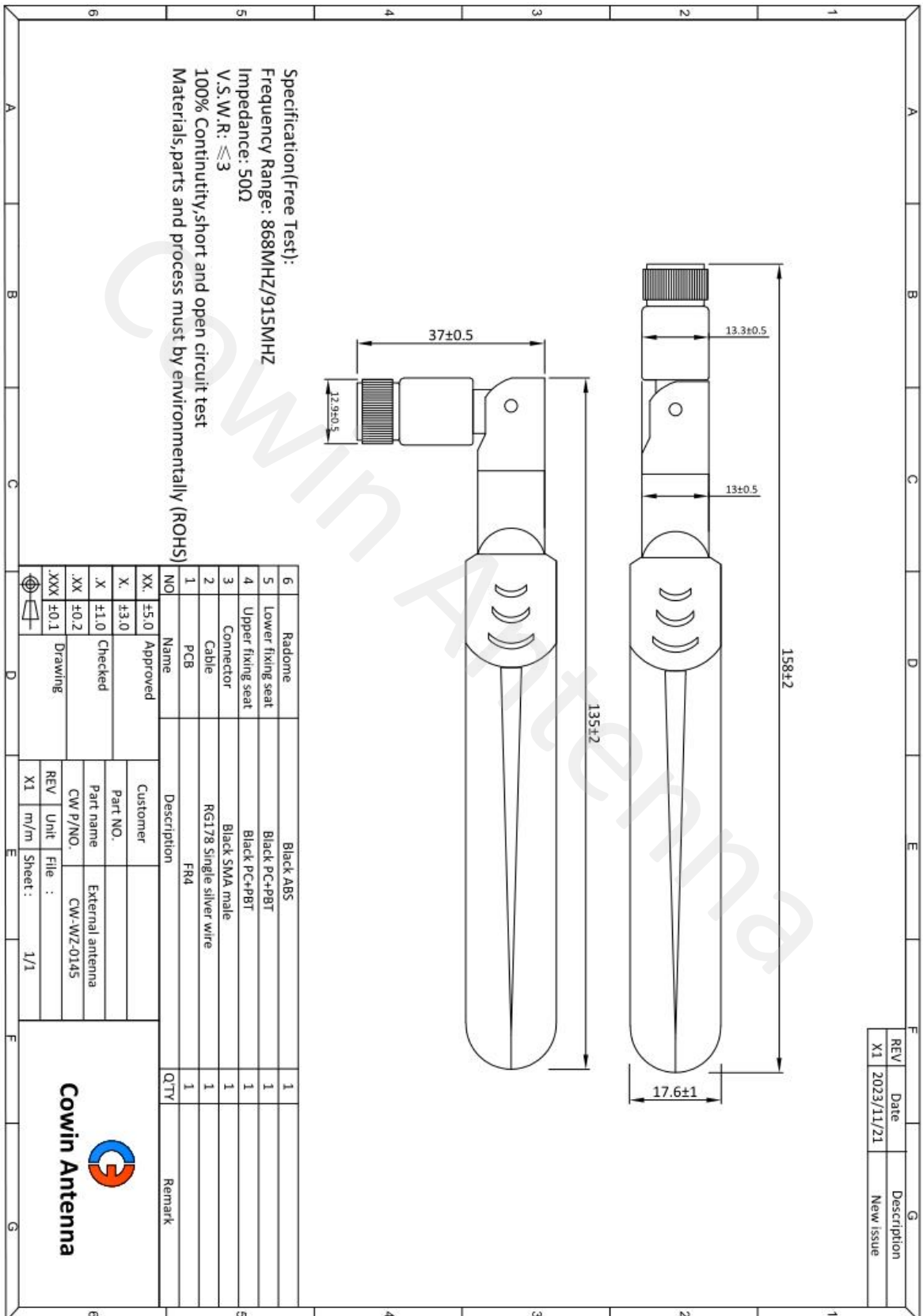


1. Antenna Electrical Characteristics

| | |
|----------------------|---------------|
| Band (MHz) | |
| Frequency (MHz) | 866MHZ/915MHZ |
| VSWR | ≤3.0 |
| Efficiency (%) | 60.9% |
| Peak Gain (dBi) | 2.55 |
| Impedance (Ohm) | 50 |
| Polarisation | Vertical |
| Max. Input Power (W) | 10 |
| Connector Type | SMA |

2. Material and environmental characteristics

| | |
|----------------------------|------------|
| External structure | ABS/PC+PBT |
| Inner structure | PCB |
| Cable Type | RG178 |
| Connector Type | SMA |
| Dimensions (mm) | 158*17 MM |
| 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

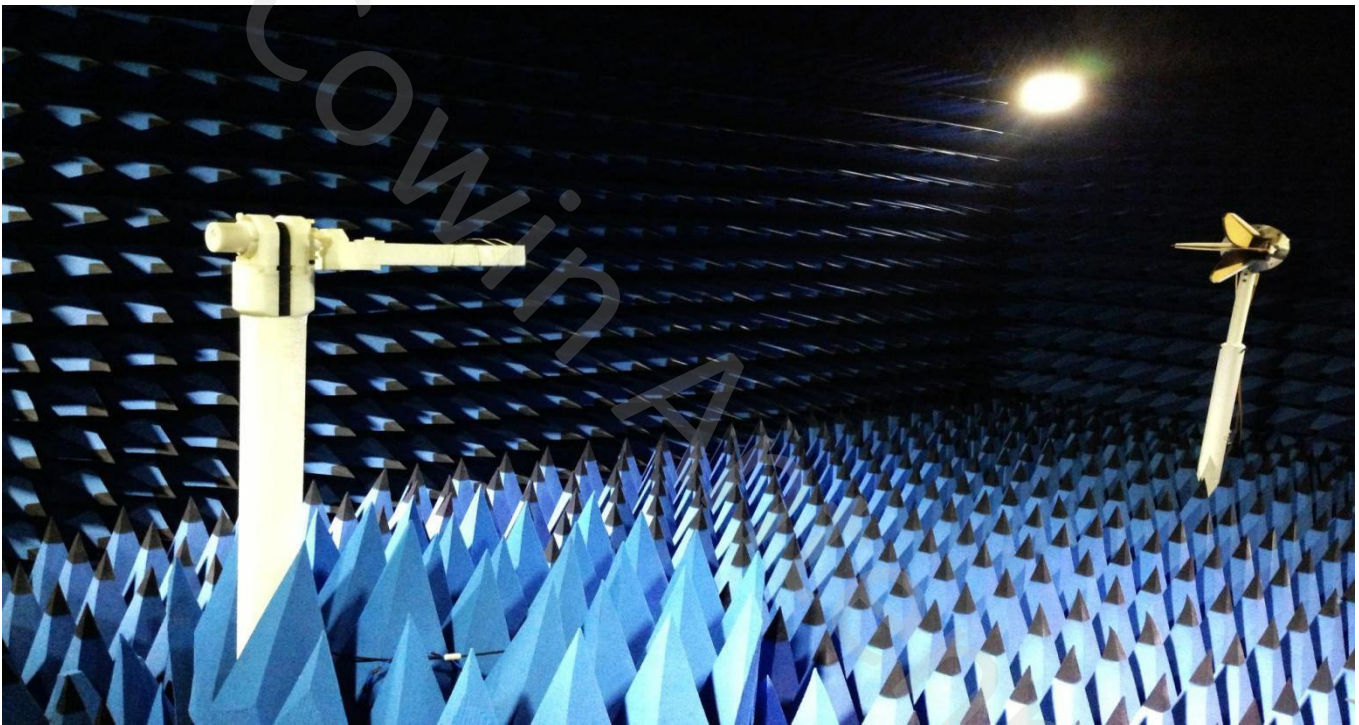
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

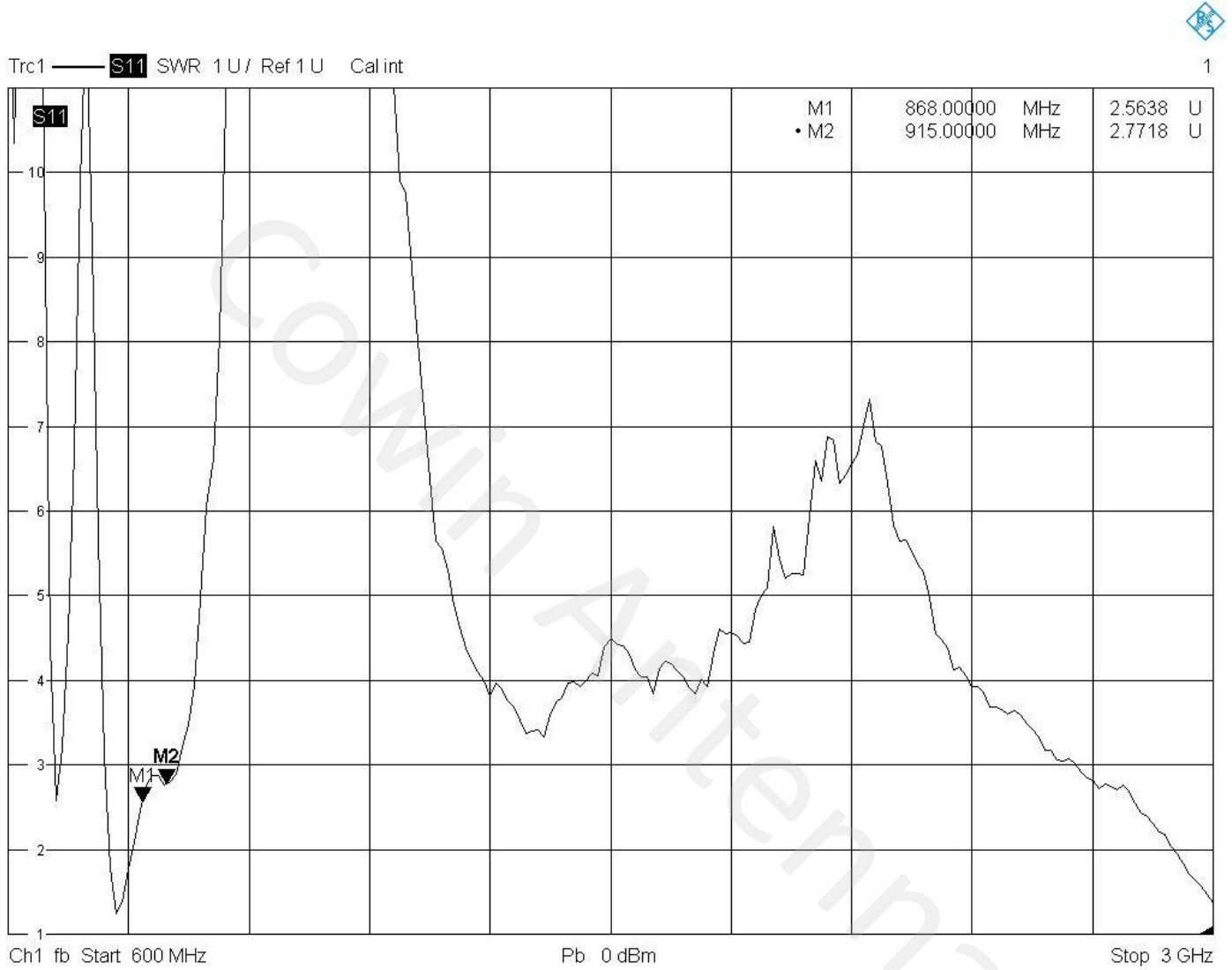
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

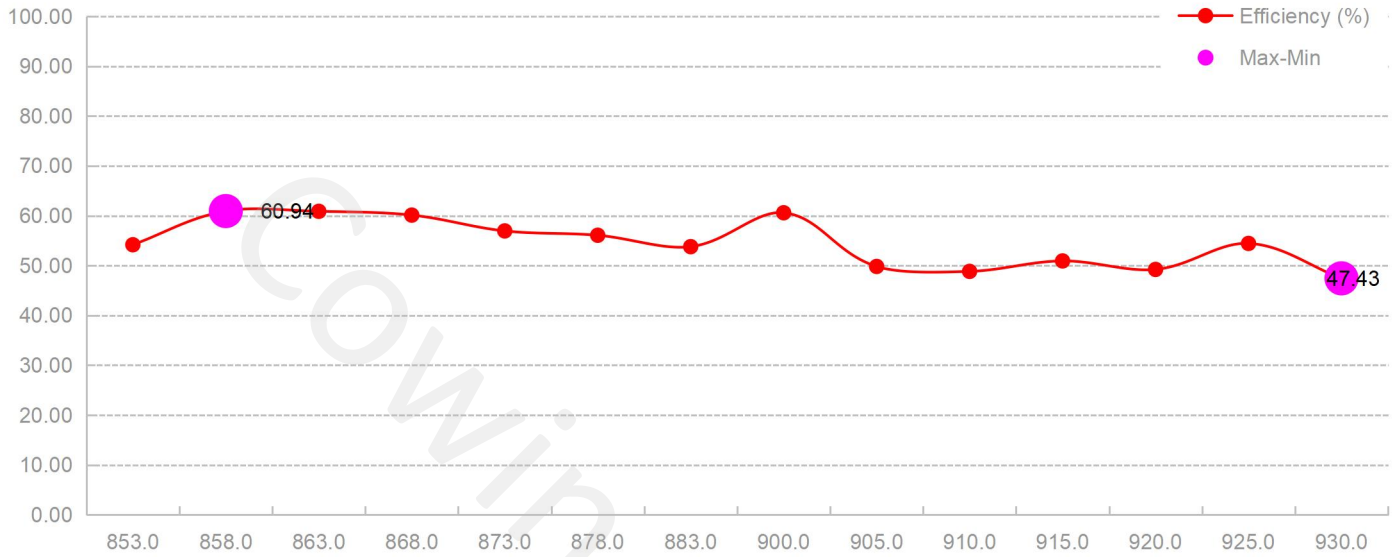


4.1 VSWR

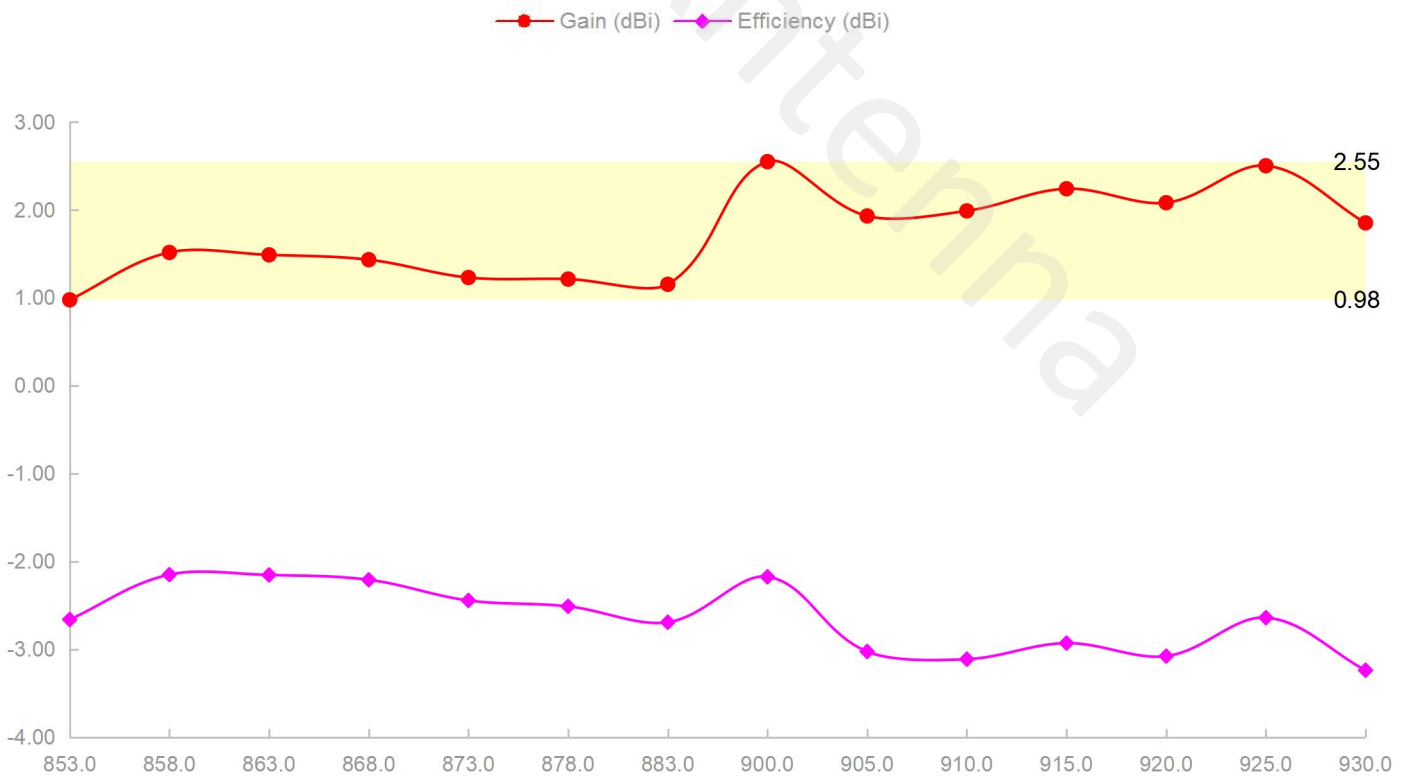


12/20/2023, 11:30 AM

4.2 Efficiency



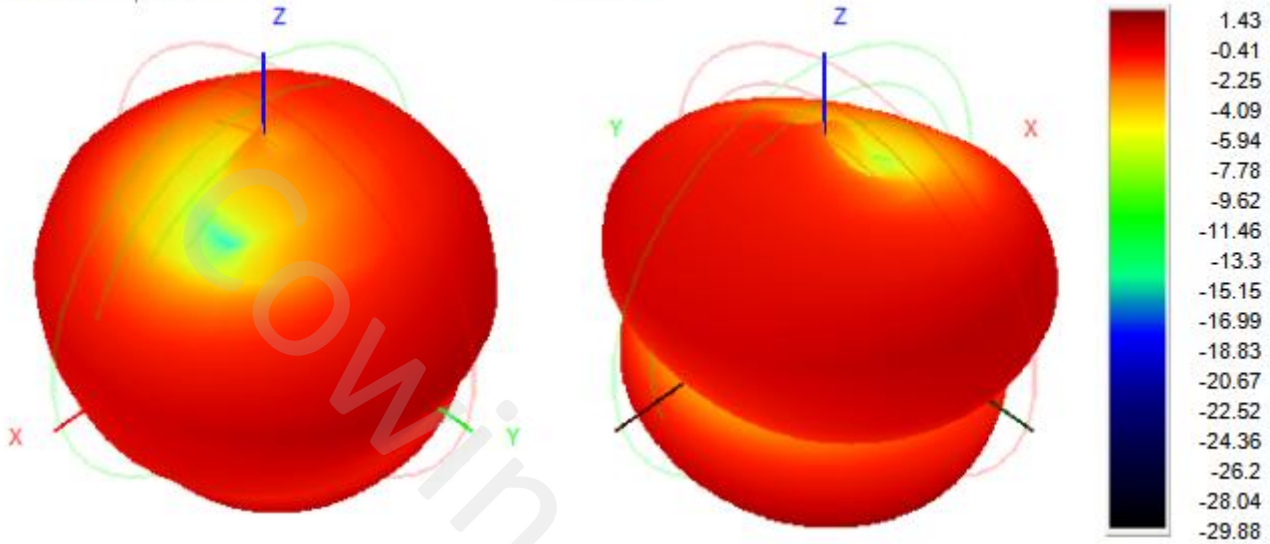
4.3 Peak gain



4.4 3D&2D Radiation Patterns

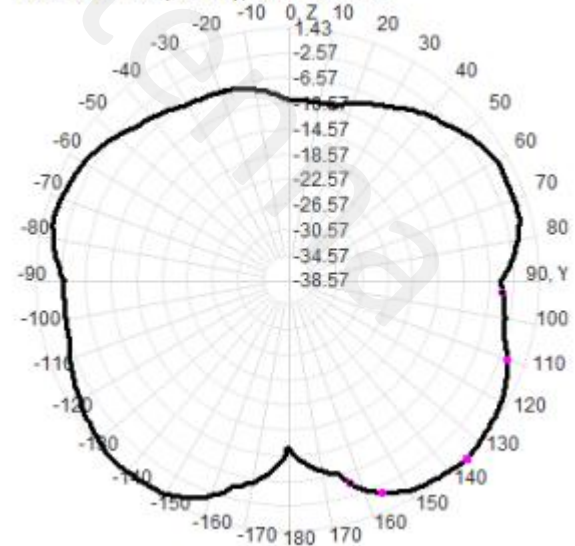
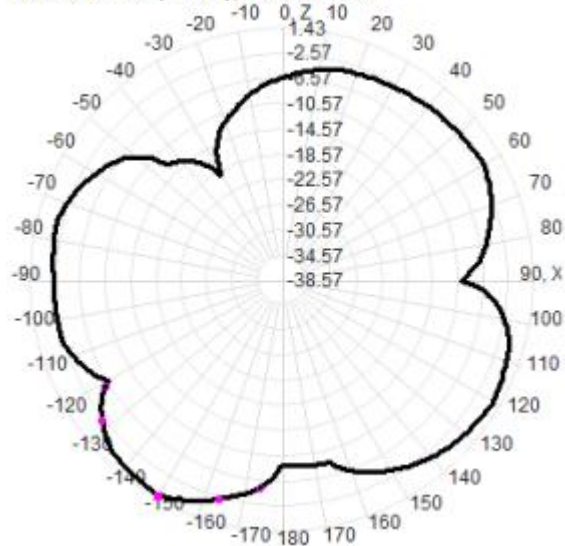
868.0MHz H+V, Eff: 60.1%

Back View

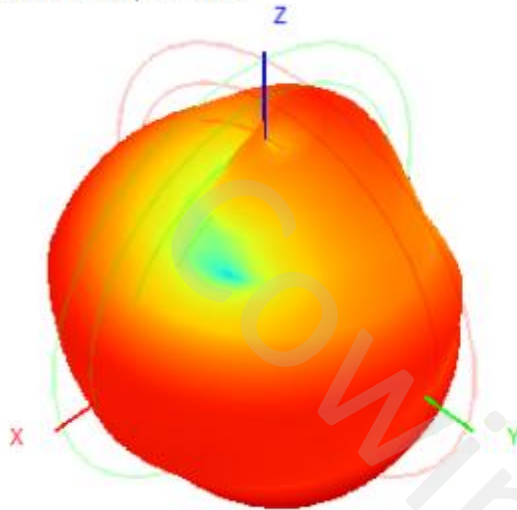


868.0MHz Total(E1-XZ), Max= 0.68dBi

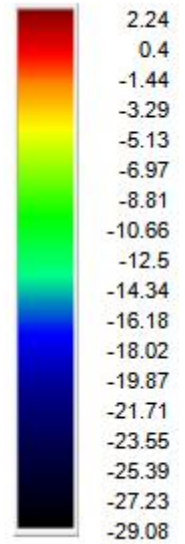
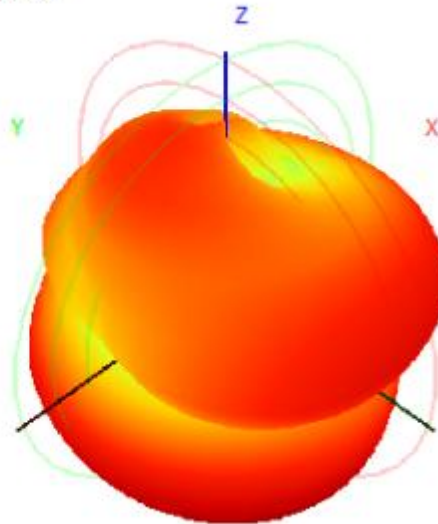
868.0MHz Total(E2-YZ), Max= 1.43dBi



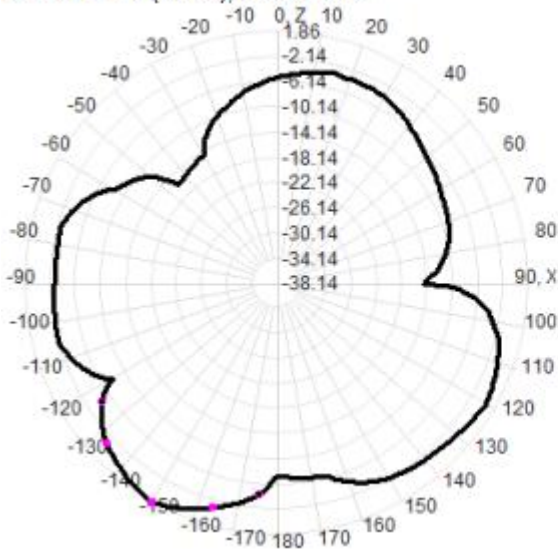
915.0MHz H+V, Eff: 50.9%



Back View



915.0MHz Total(E1-XZ), Max= 1.77dBi



915.0MHz Total(E2-YZ), Max= 1.86dBi

