

CW-WZ-0163

915MHz External Antenna

Key Features

Frequency:915MHz

SMA Connector

Dimensions:75*8mm

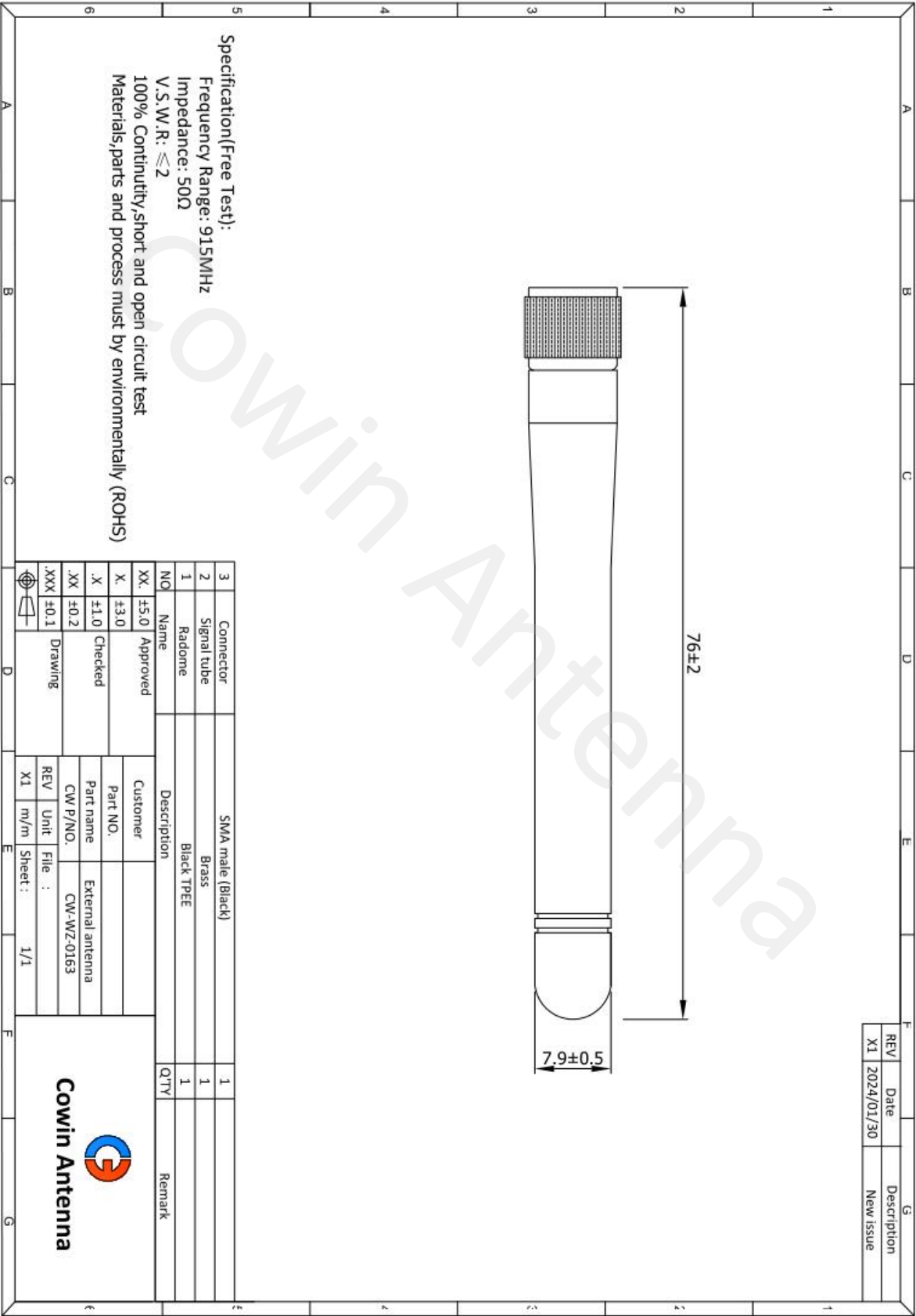


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	915MHz
VSWR	≤2.0
Efficiency (%)	61.93%
Peak Gain (dBi)	1.96
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

2. Material and environmental characteristics

External structure	TPEE
Inner structure	Brass
Cable Type	N/A
Connector Type	SMA
Dimensions (mm)	75*8 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

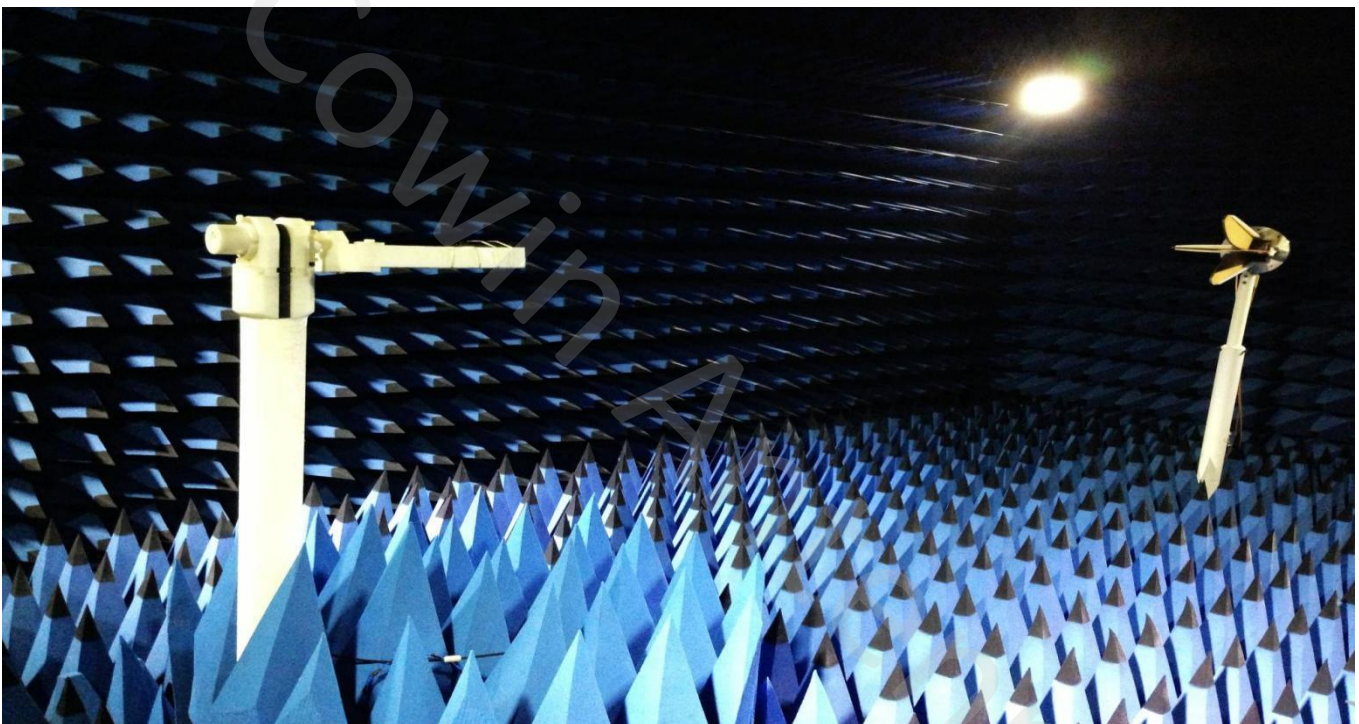
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

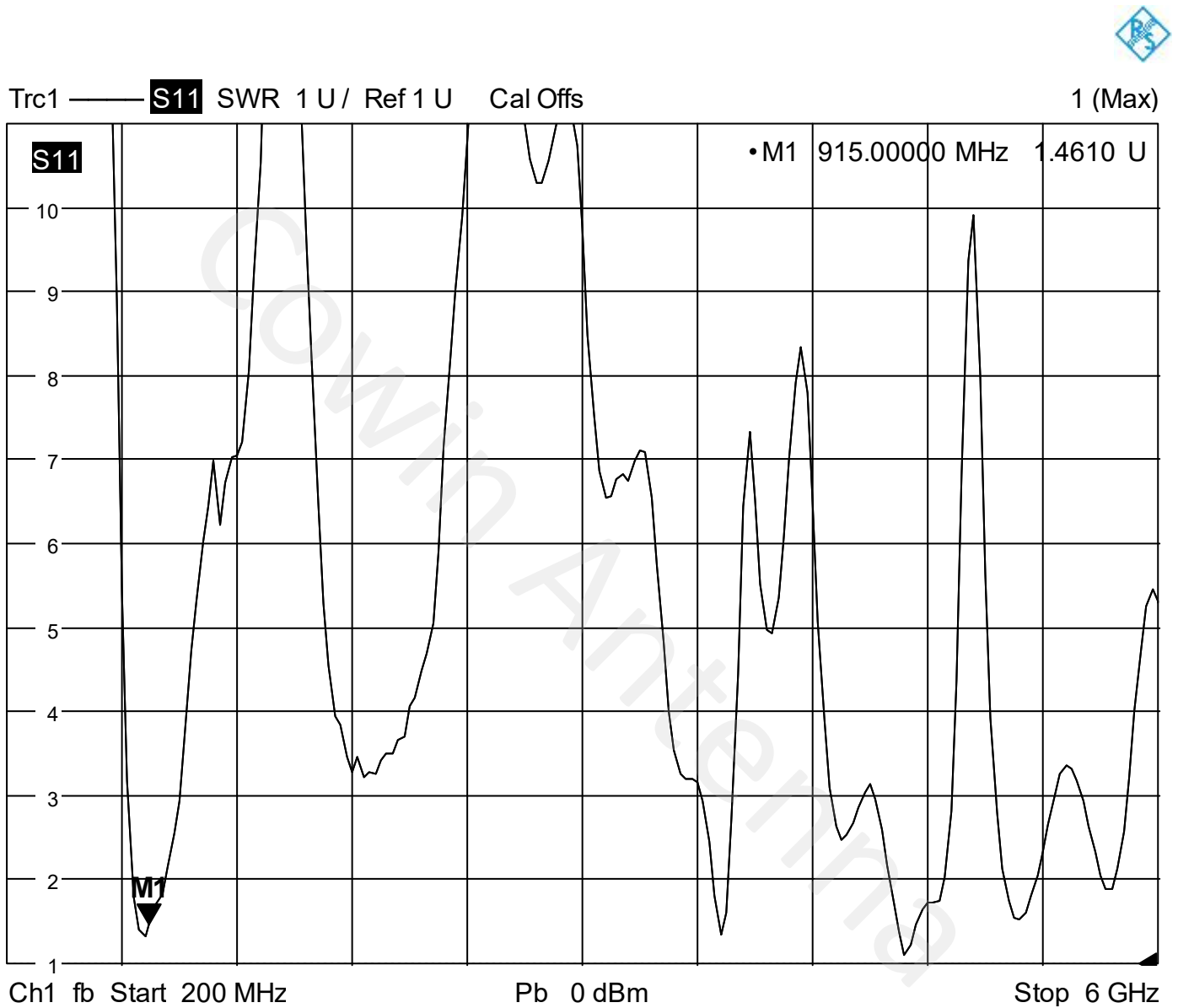
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

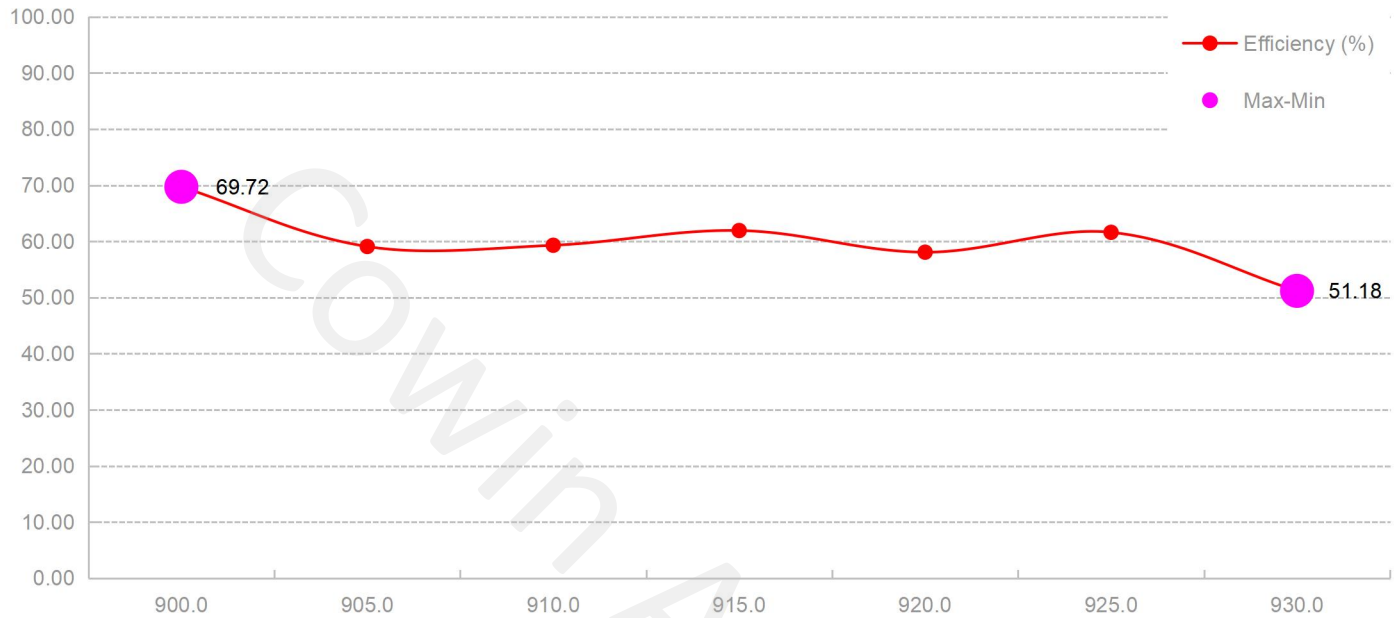


4.1 VSWR

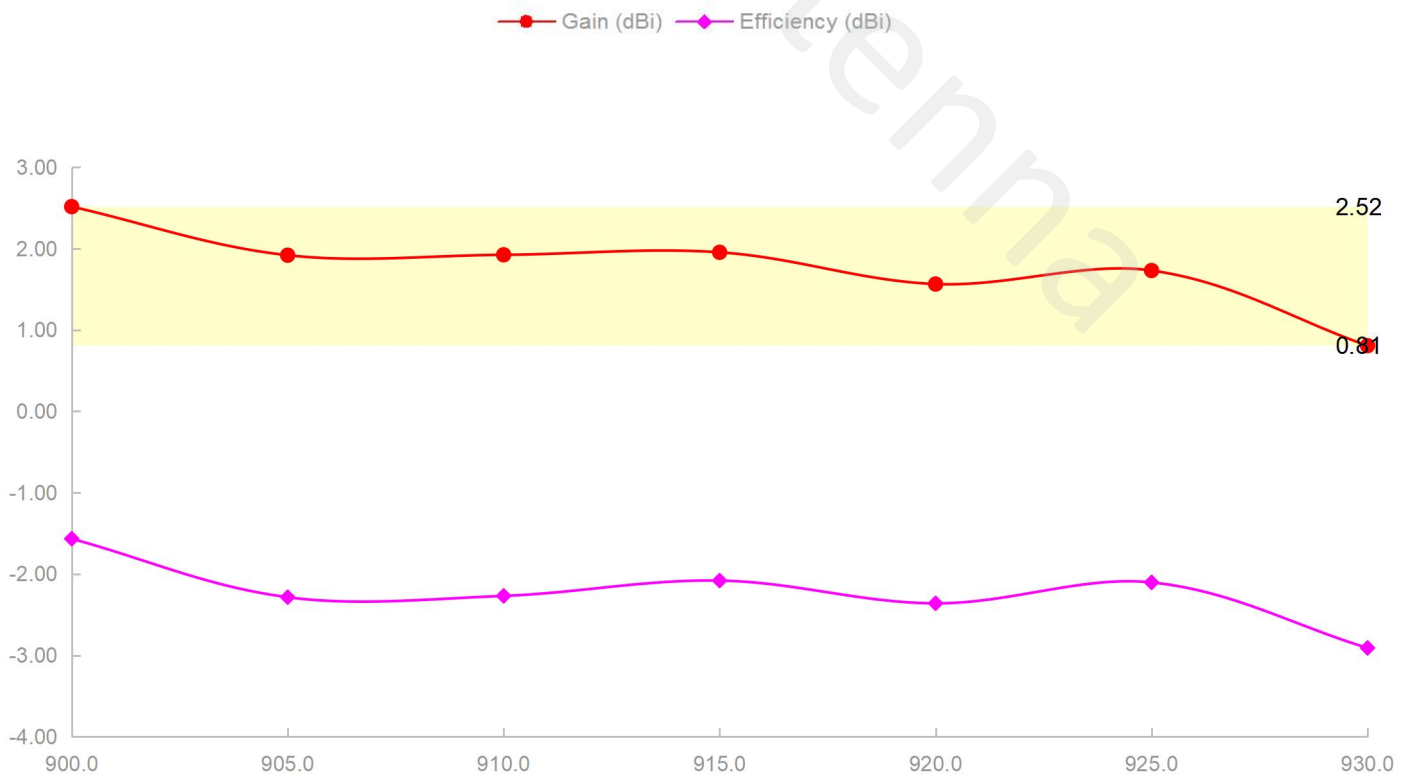


1/30/2024, 3:47 PM

4.2 Efficiency



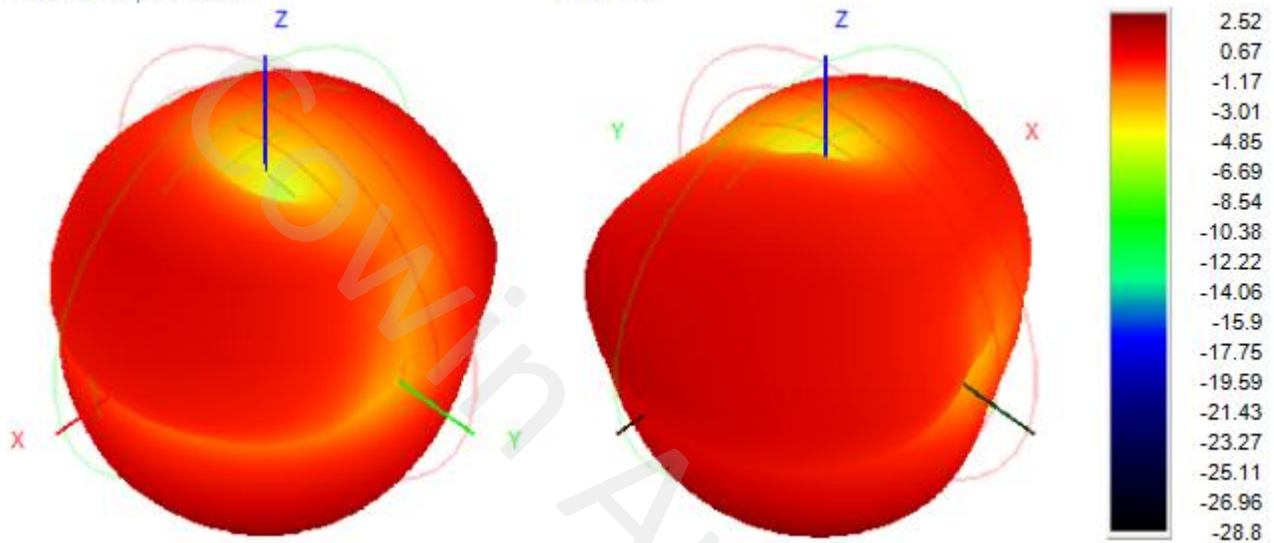
4.3 Peak gain



4.4 3D&2D Radiation Patterns

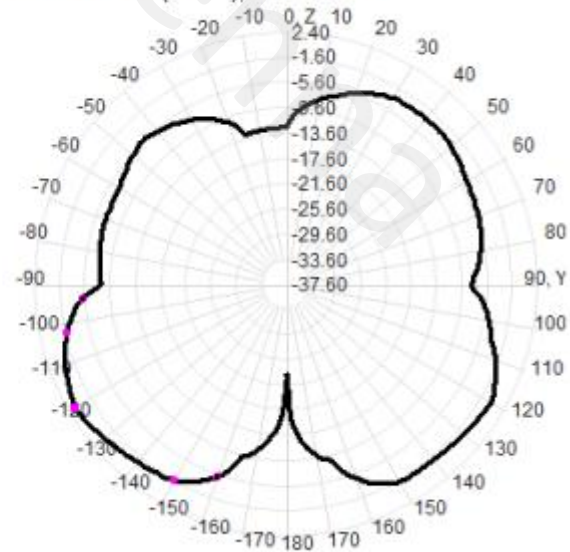
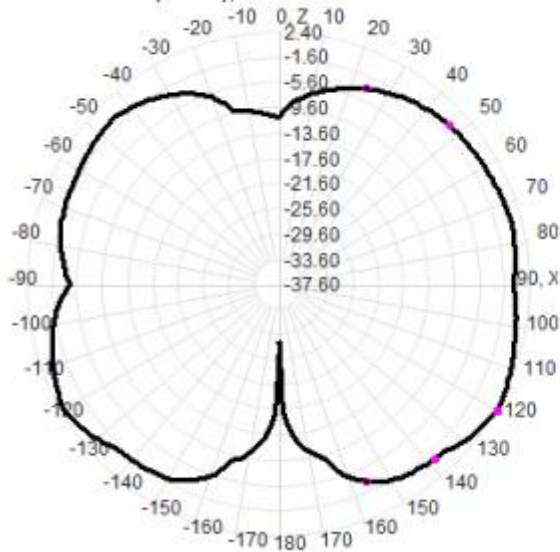
900.0MHz H+V, Eff: 69.7%

Back View



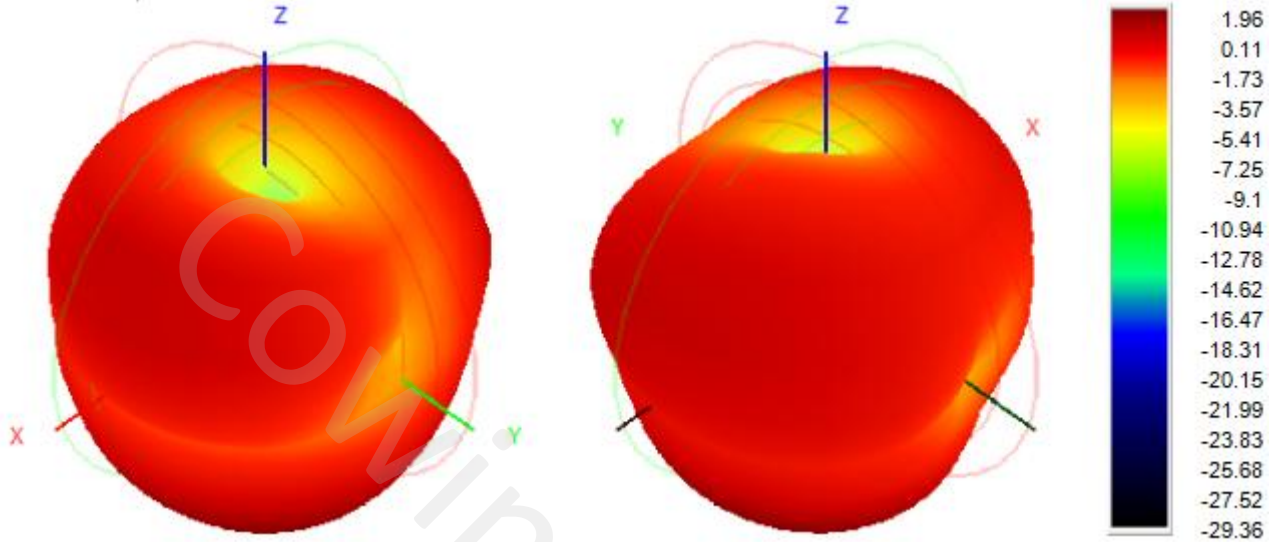
900.0MHz Total(E1-XZ), Max= 2.40dBi

900.0MHz Total(E2-YZ), Max= 1.10dBi

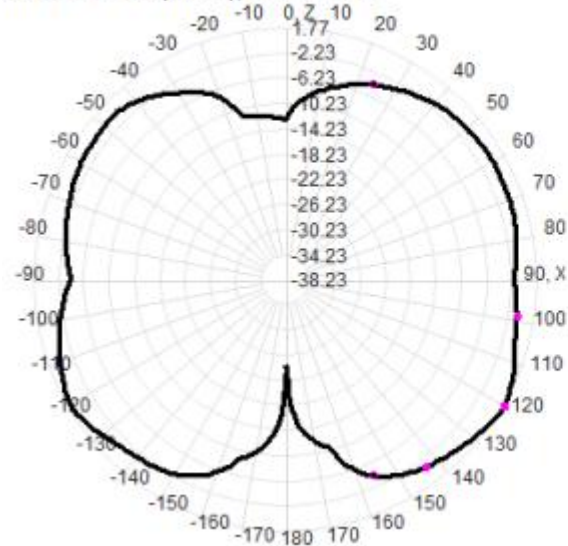


915.0MHz H+V, Eff: 61.9%

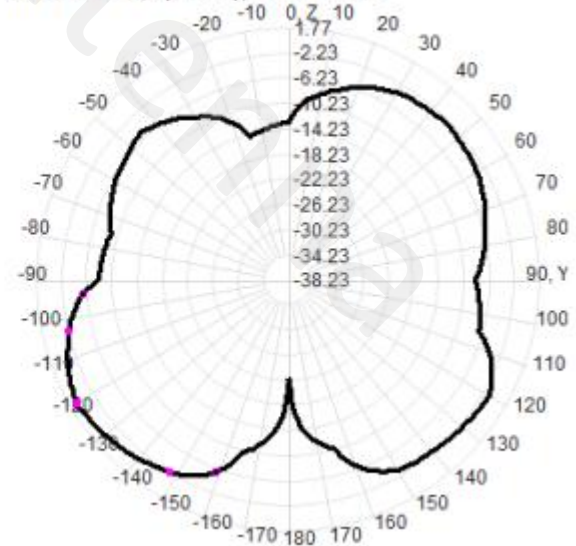
Back View



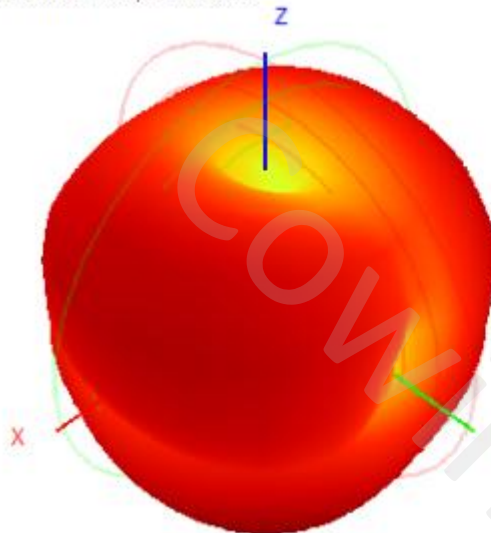
915.0MHz Total(E1-XZ), Max= 1.77dBi



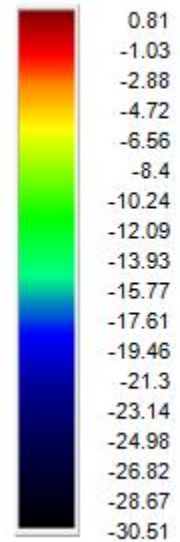
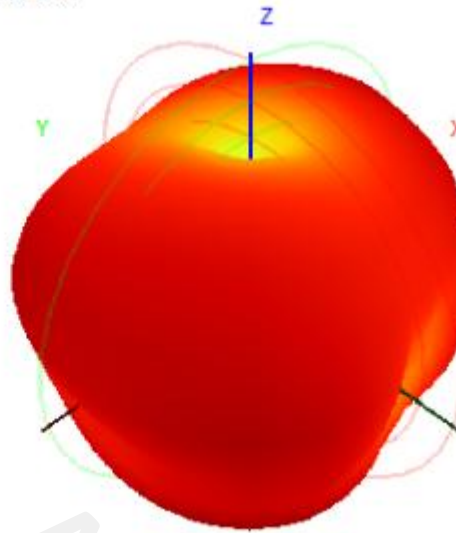
915.0MHz Total(E2-YZ), Max= 0.61dBi



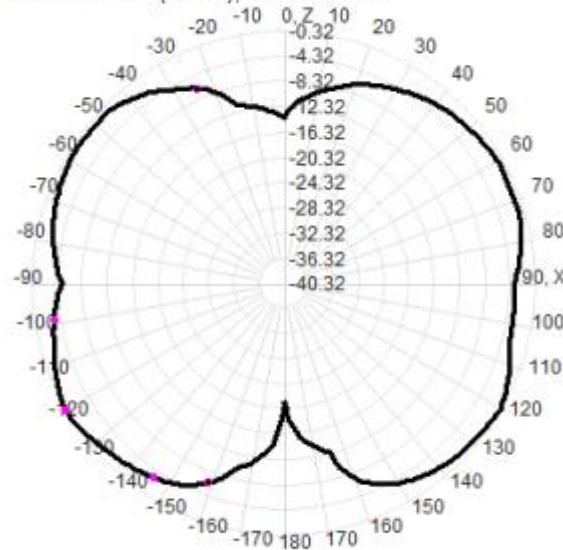
930.0MHz H+V, Eff: 51.2%



Back View



930.0MHz Total(E1-XZ), Max= -0.32dBi



930.0MHz Total(E2-YZ), Max= -0.90dBi

