

CW-WZ-0126

4G External Patch Antenna

Key Features

Frequency: 698-960/1710-2700MHz

SMA Male Connector

3M Adhesive

Dimensions 116*22 mm

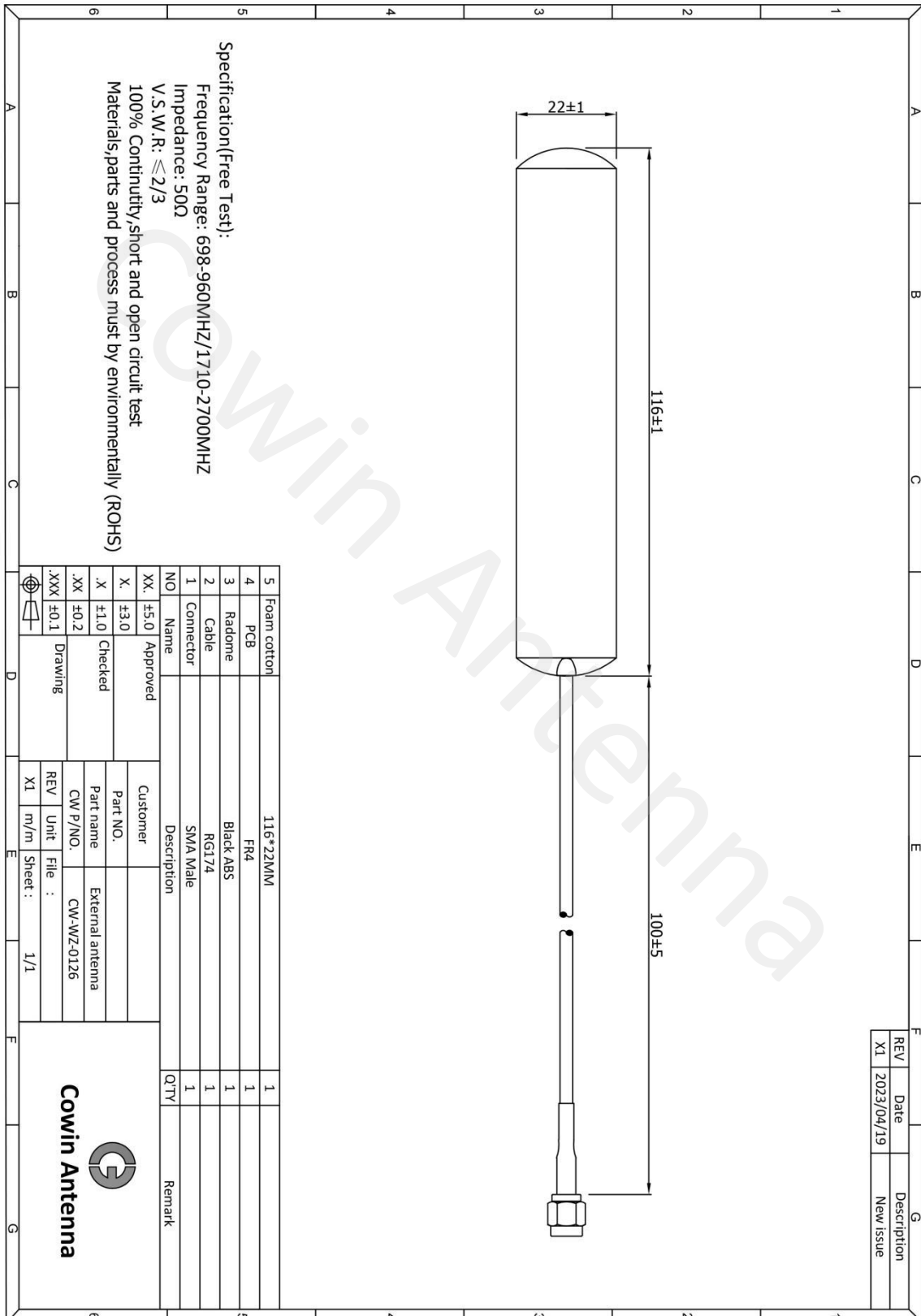


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	698-960/ 1710-2700MHz
VSWR	2/3
Efficiency (%)	58.18% /66.73%
Peak Gain (dBi)	3.58/2.76
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

2. Material and environmental characteristics

Inner structure	PCB
Material of Plastic	ABS
Cable Type	RG174
Connector Type	SMA Male
Dimensions (mm)	116*22MM
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

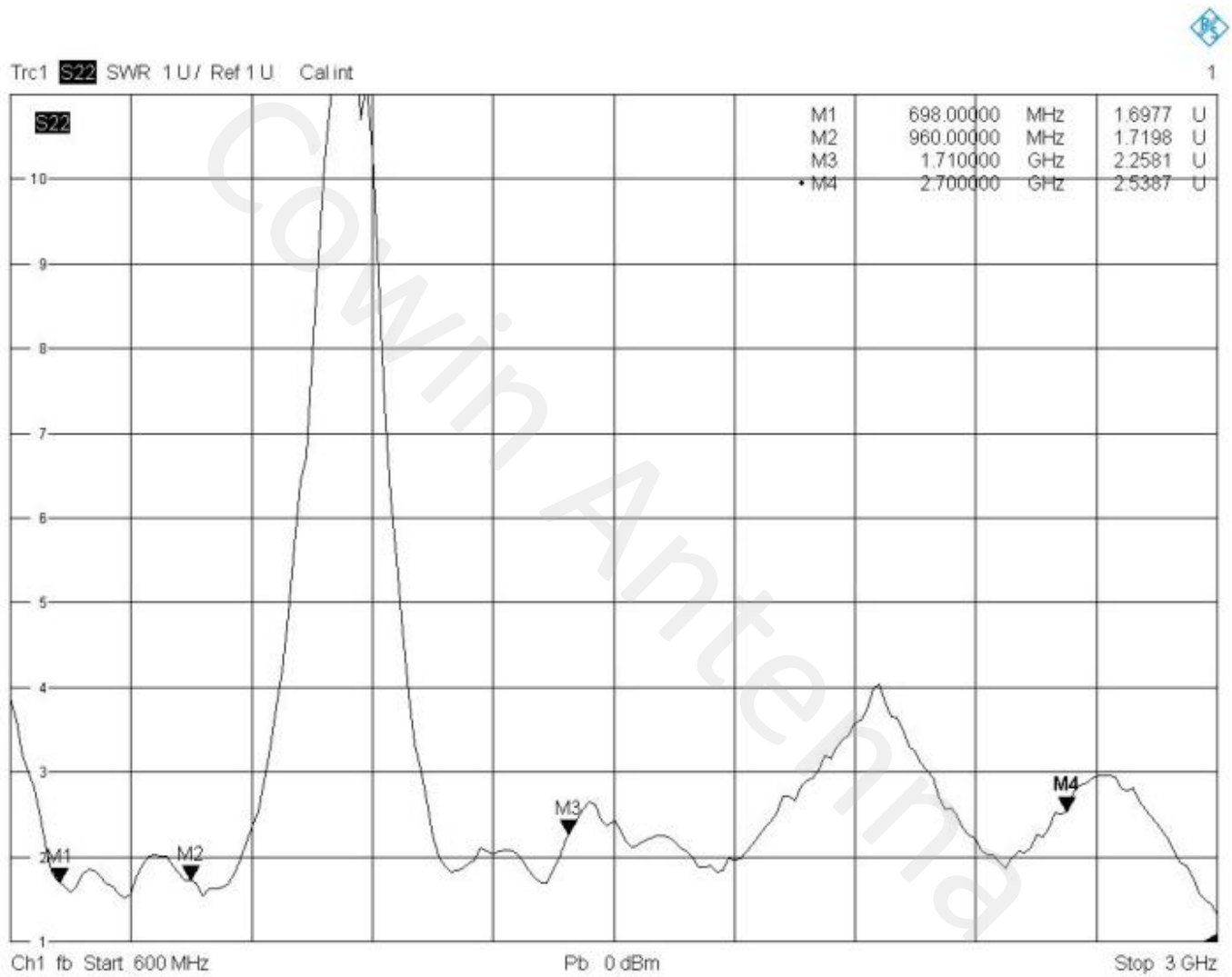
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

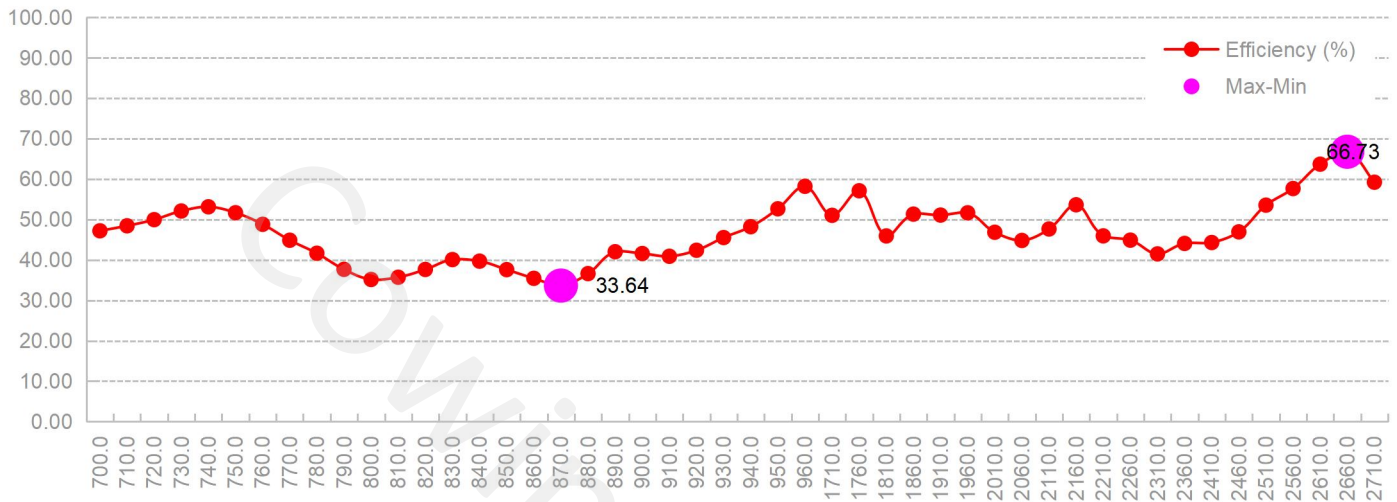
The comprehensive tester is Agilent cmv500



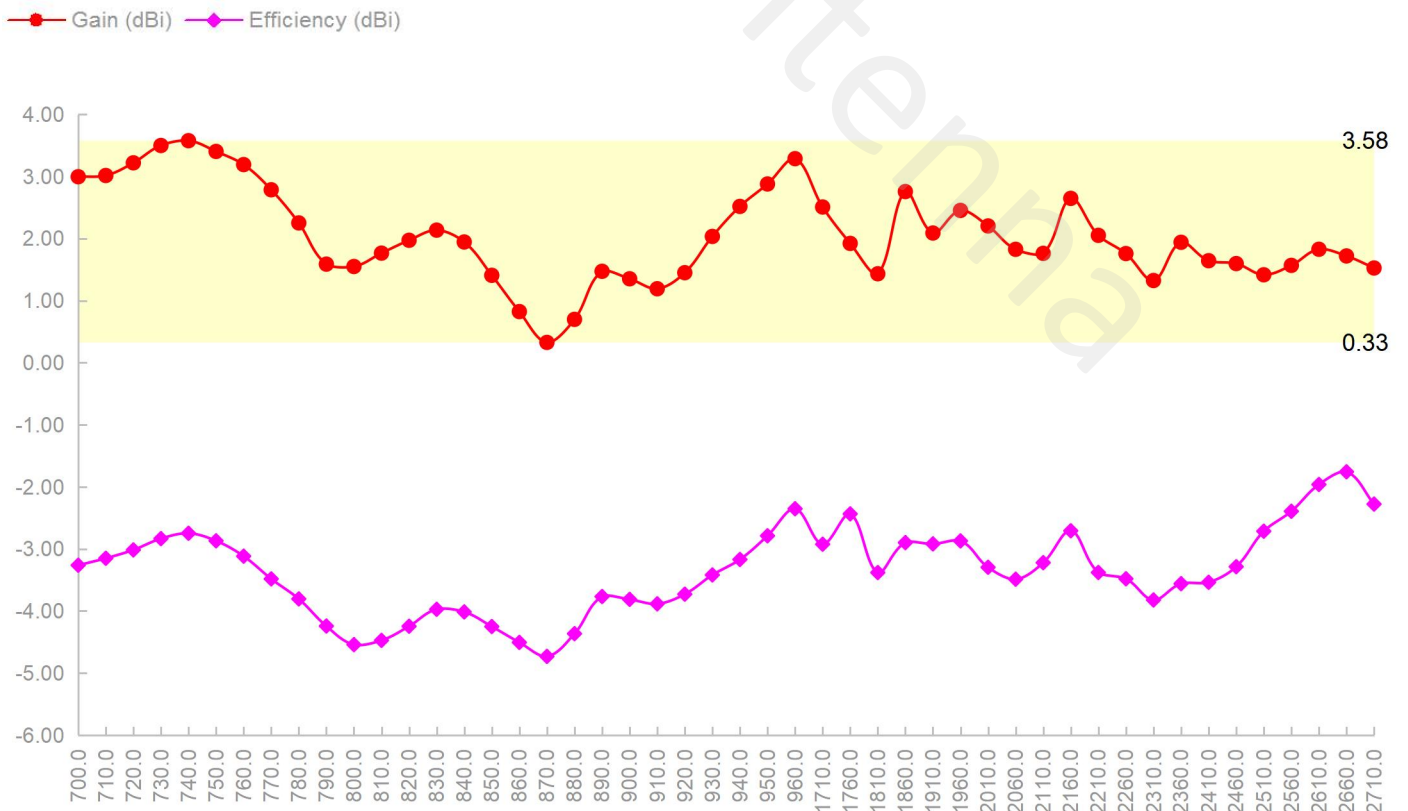
4.1 VSWR



4.2 Efficiency

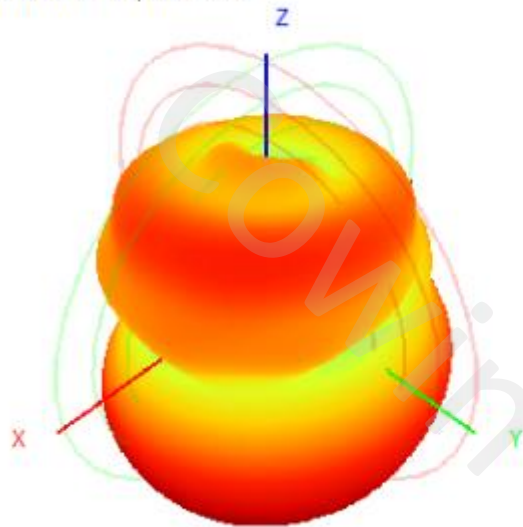


4.3 Peak gain

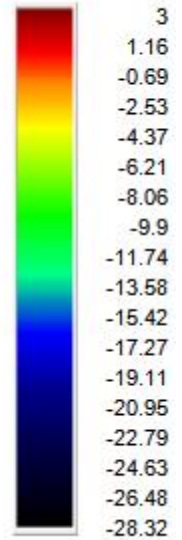
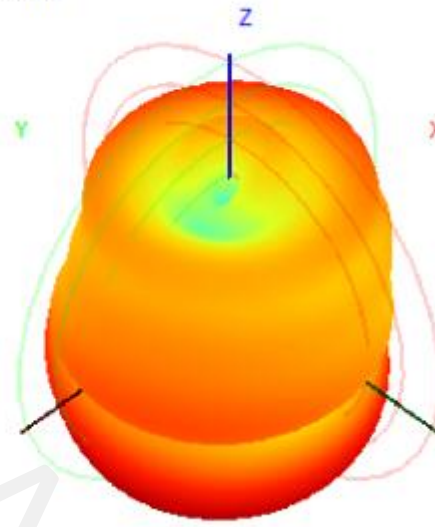


4.4 3D&2D Radiation Patterns

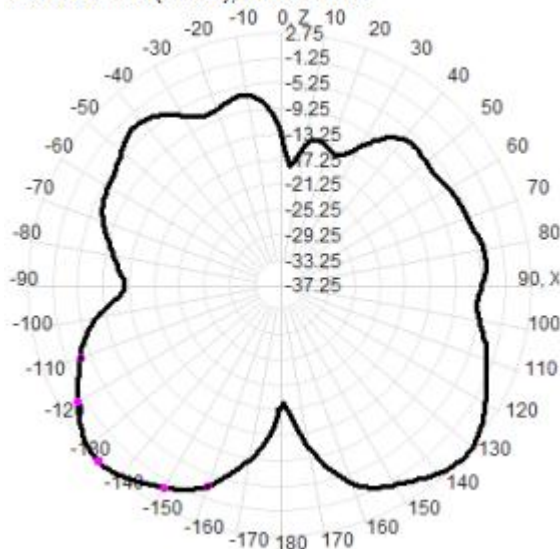
700.0MHz H+V, Eff: 47.2%



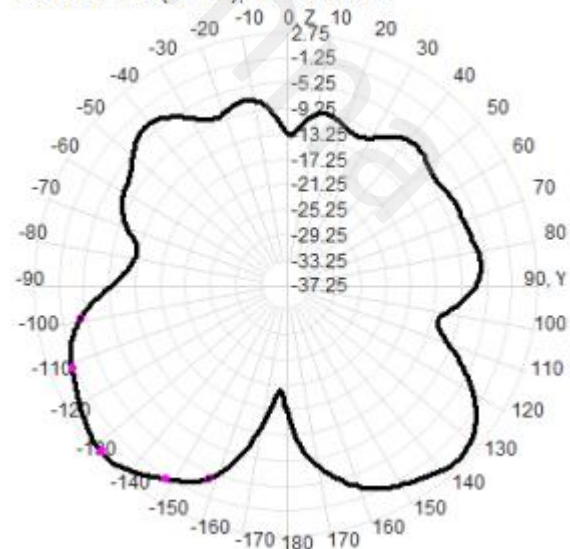
Back View



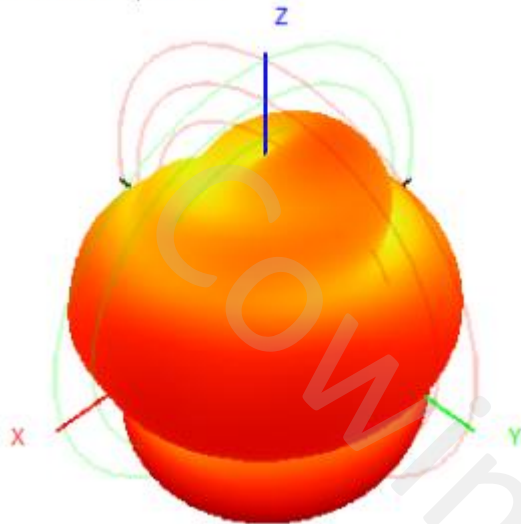
700.0MHz Total(E1-XZ), Max= 2.75dBi



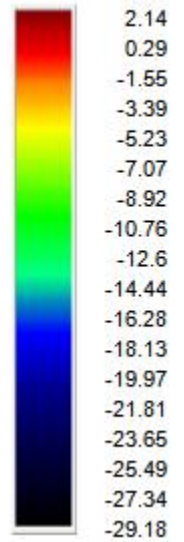
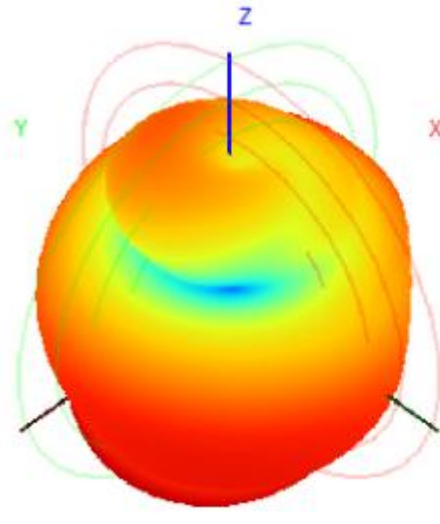
700.0MHz Total(E2-YZ), Max= 2.13dBi



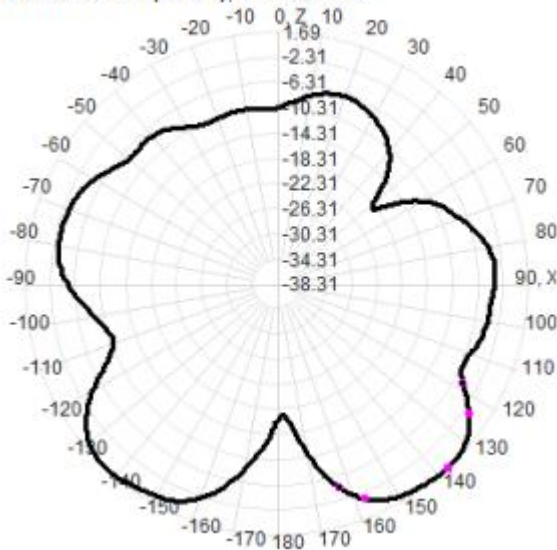
830.0MHz H+V, Eff: 40.1%



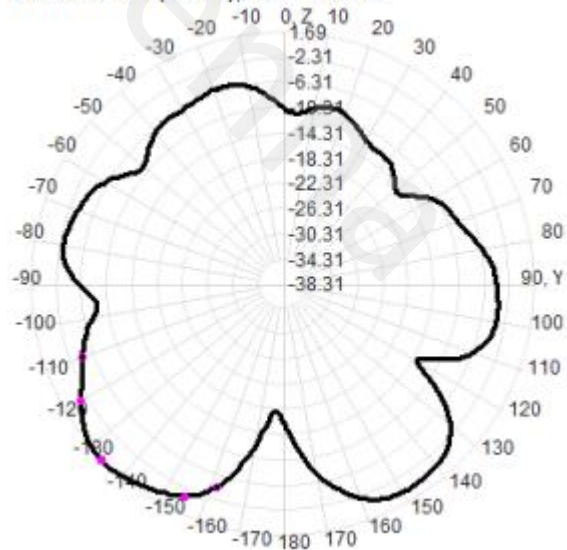
Back View



830.0MHz Total(E1-XZ), Max= 1.44dBi

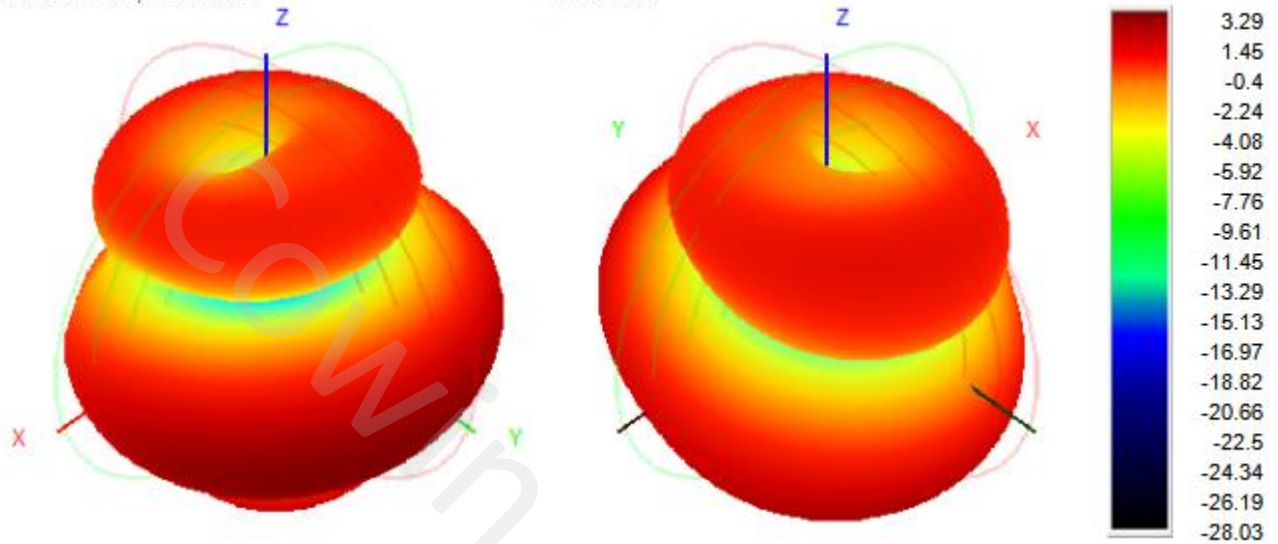


830.0MHz Total(E2-YZ), Max= 1.69dBi



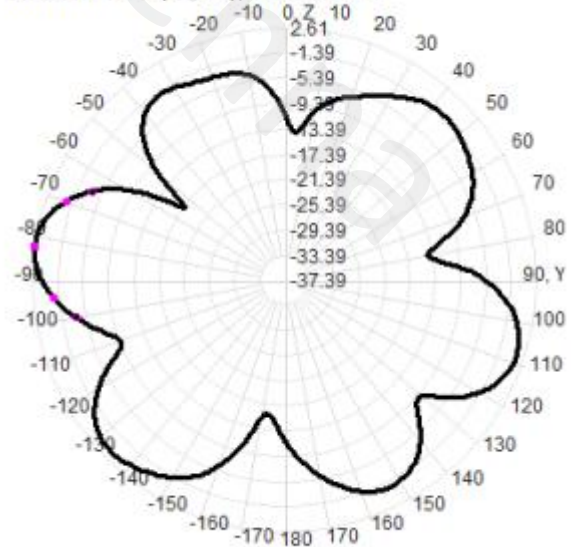
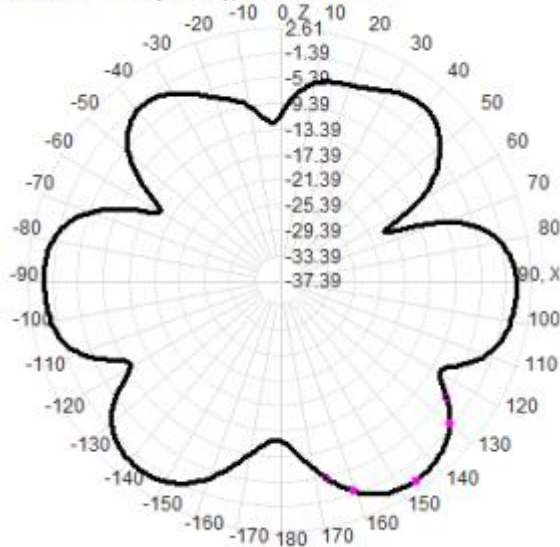
960.0MHz H+V, Eff: 58.2%

Back View

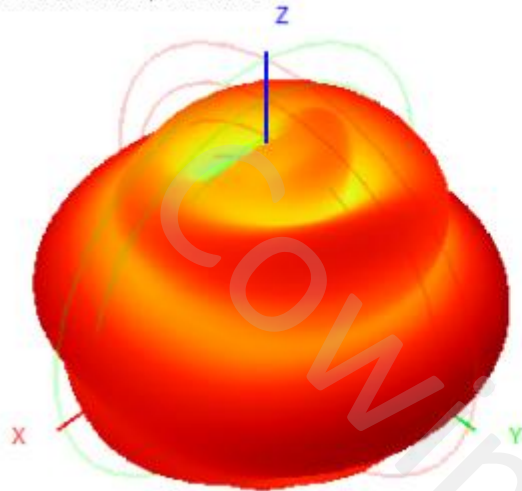


960.0MHz Total(E1-XZ), Max= 0.77dBi

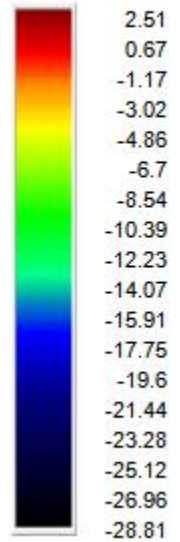
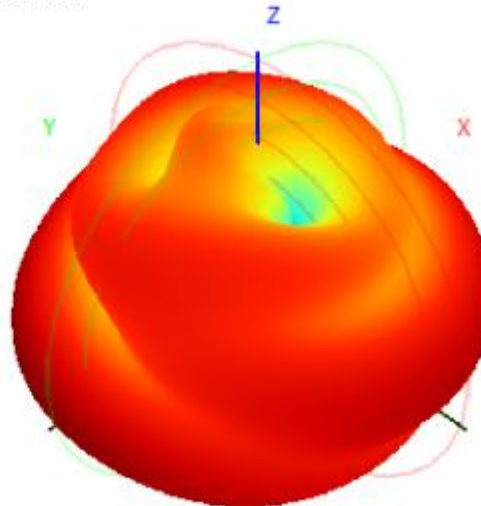
960.0MHz Total(E2-YZ), Max= 2.61dBi



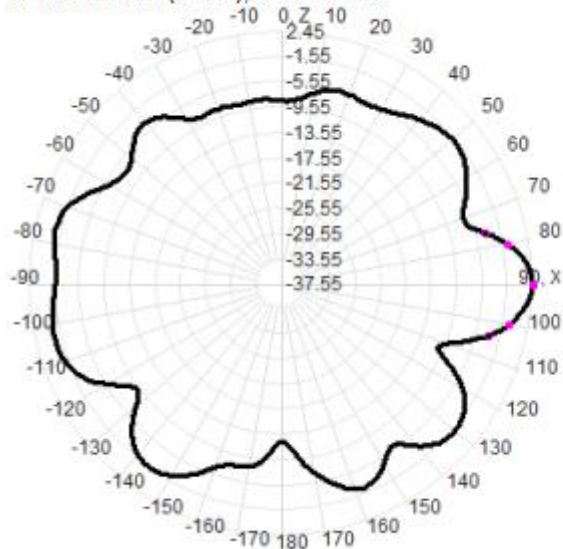
1710.0MHz H+V, Eff: 51.0%



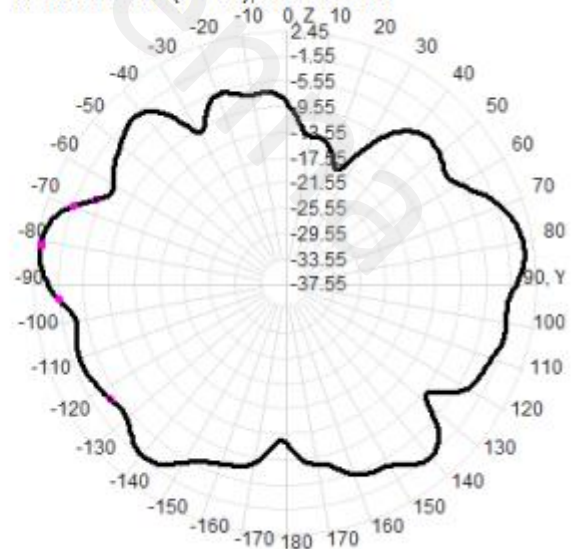
Back View



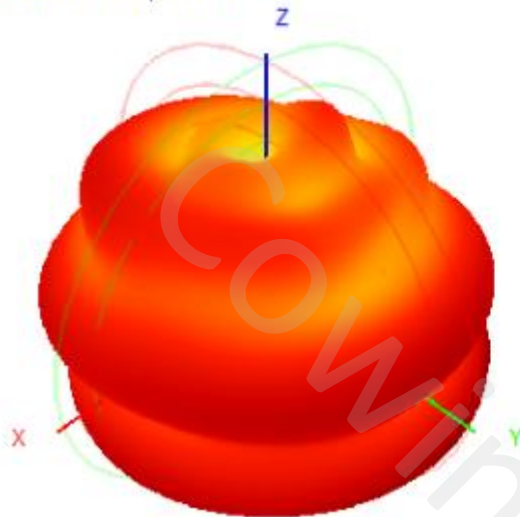
1710.0MHz Total(E1-XZ), Max= 2.29dBi



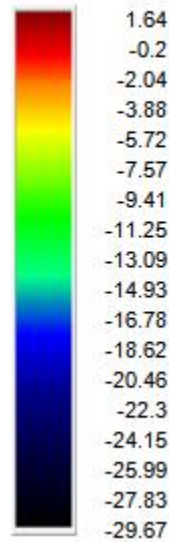
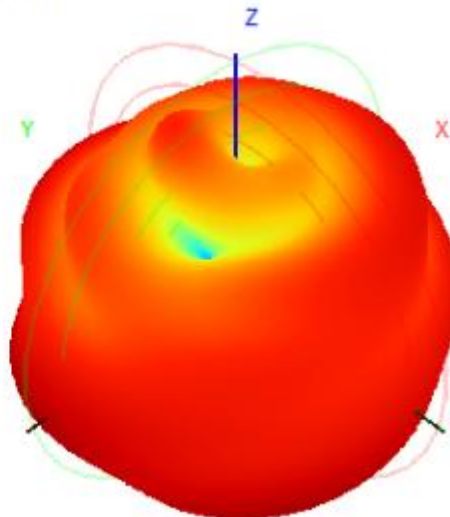
1710.0MHz Total(E2-YZ), Max= 1.72dBi



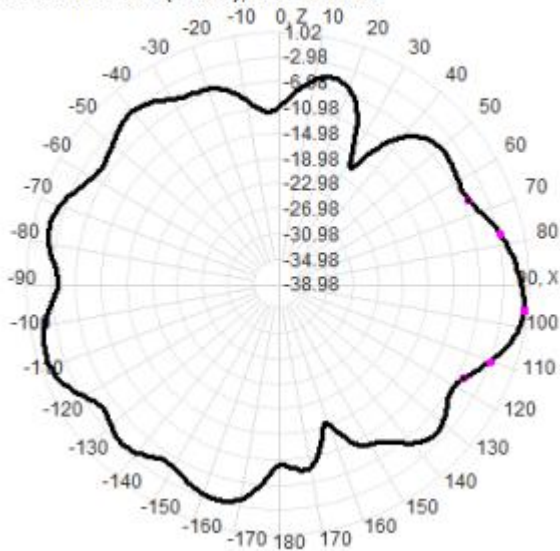
2410.0MHz H+V, Eff: 44.3%



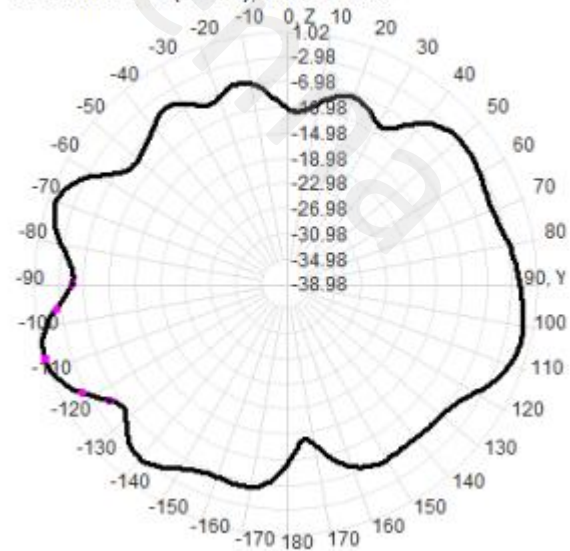
Back View



2410.0MHz Total(E1-XZ), Max= 0.08dBi

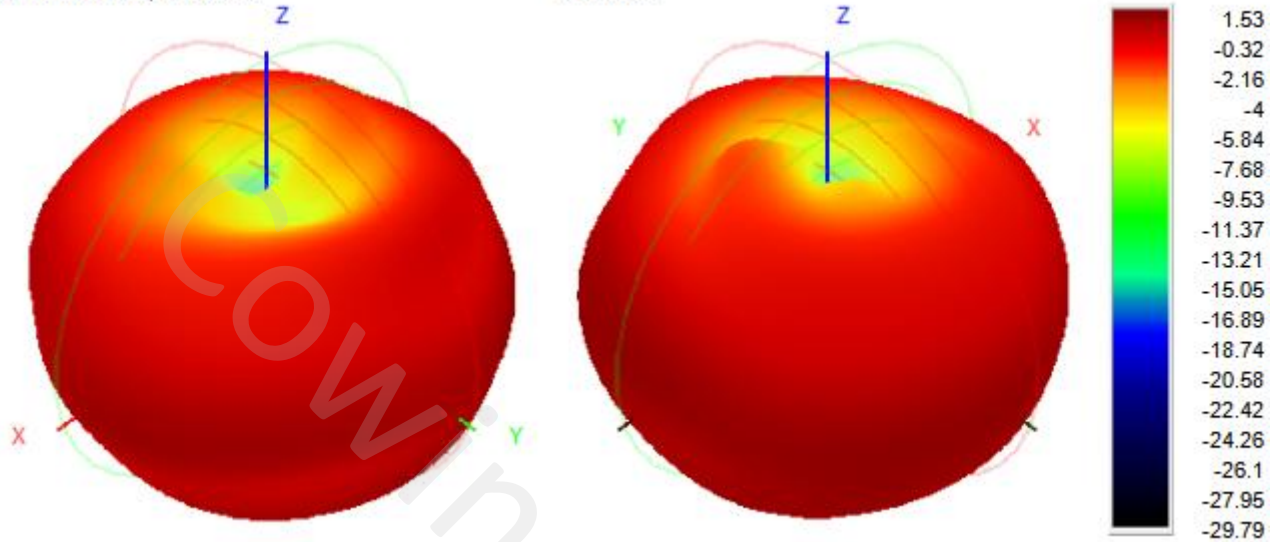


2410.0MHz Total(E2-YZ), Max= 1.02dBi



2710.0MHz H+V, Eff: 59.2%

Back View



2710.0MHz Total(E1-XZ), Max= 0.83dBi

2710.0MHz Total(E2-YZ), Max= 0.90dBi

