

CW-WZ-0143

4G External Patch Antenna

Key Features

Frequency:698-960MHZ/1710-2700MHZ

SMA Connector

3M Adhesive

Dimensions:109*17.8mm

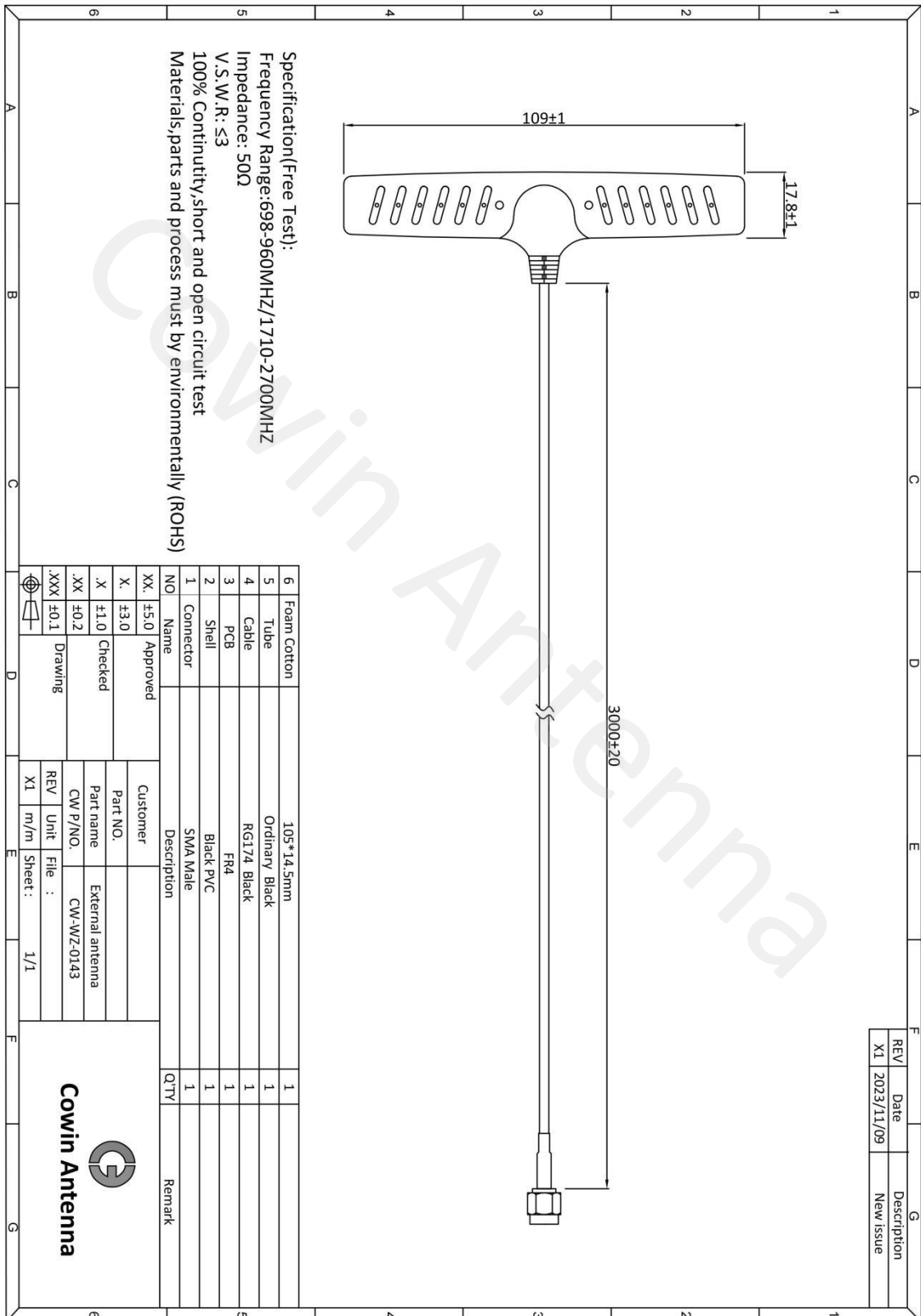


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	698-960MHZ/1710-2700MHZ
VSWR	≤3
Efficiency (%)	73.45%/82.7%
Peak Gain (dBi)	3.41/4.8
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

2. Material and environmental characteristics

External structure	PVC
Inner structure	PCB
Cable Type	RG174
Connector Type	SMA
Dimensions (mm)	109*17.8 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

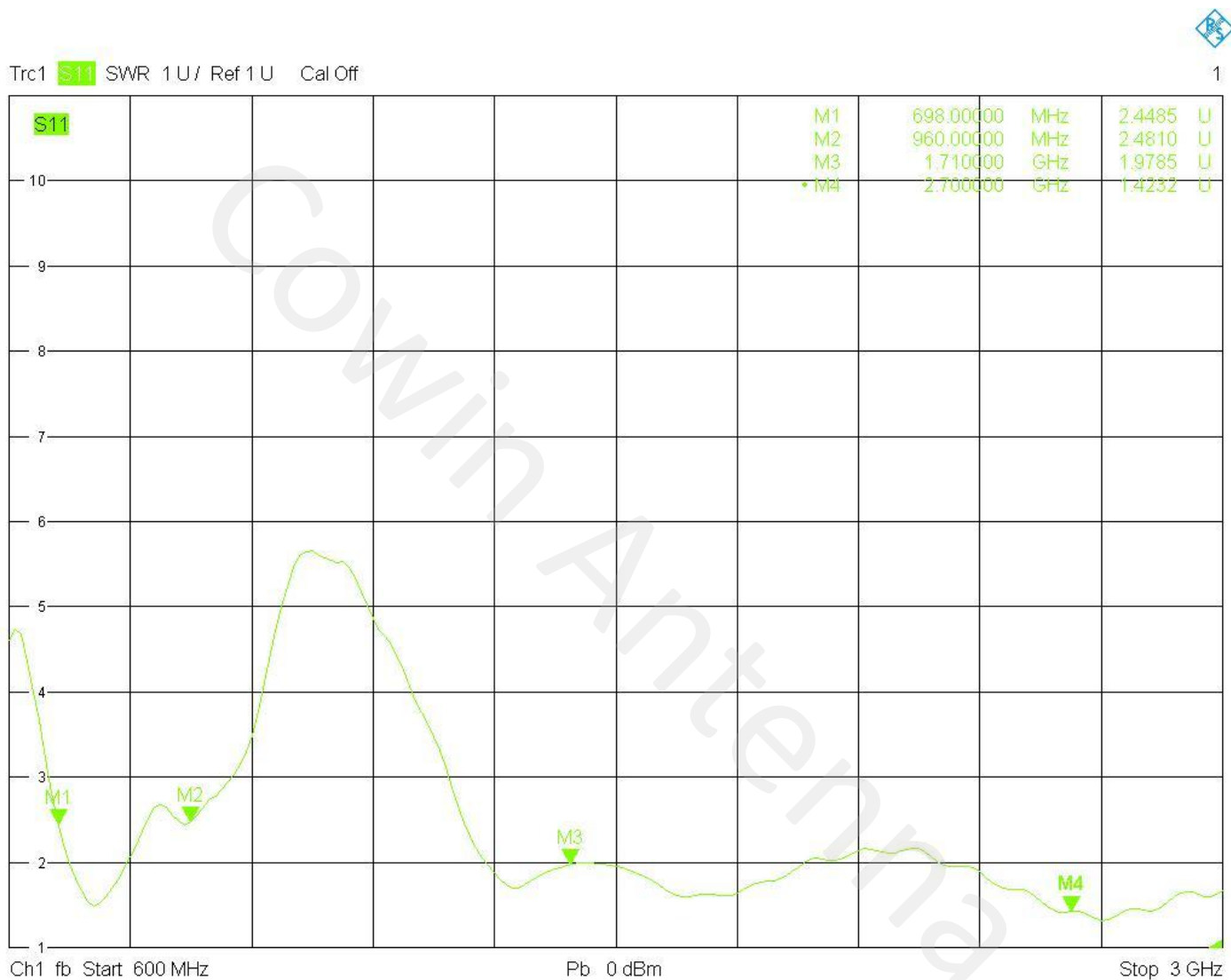
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

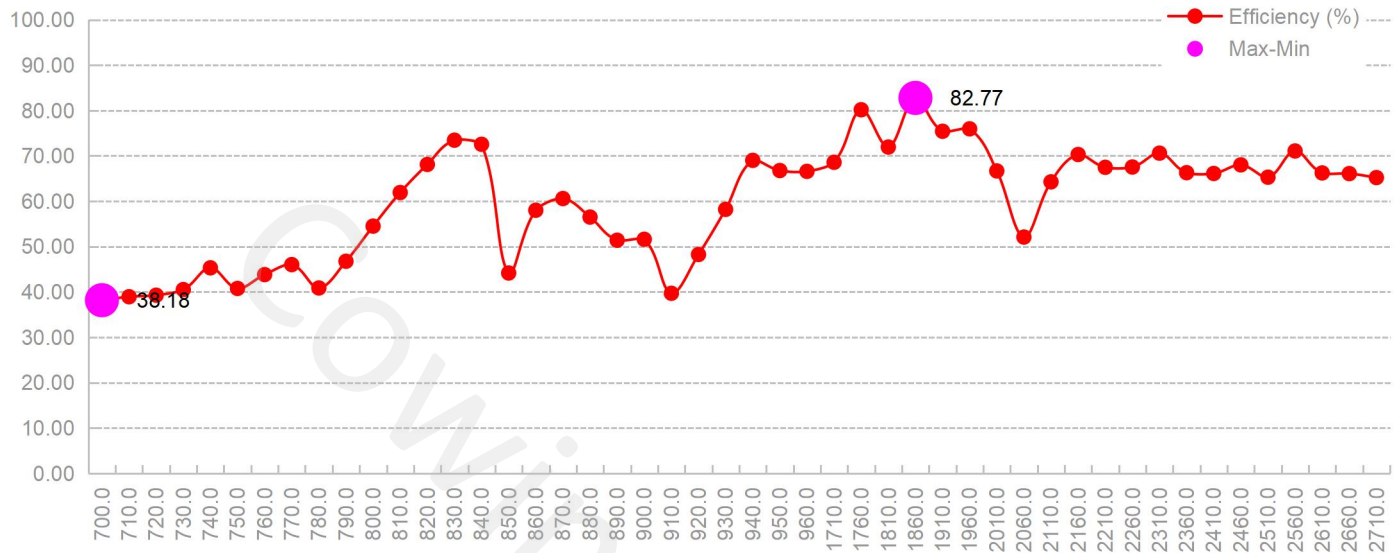


4.1 VSWR

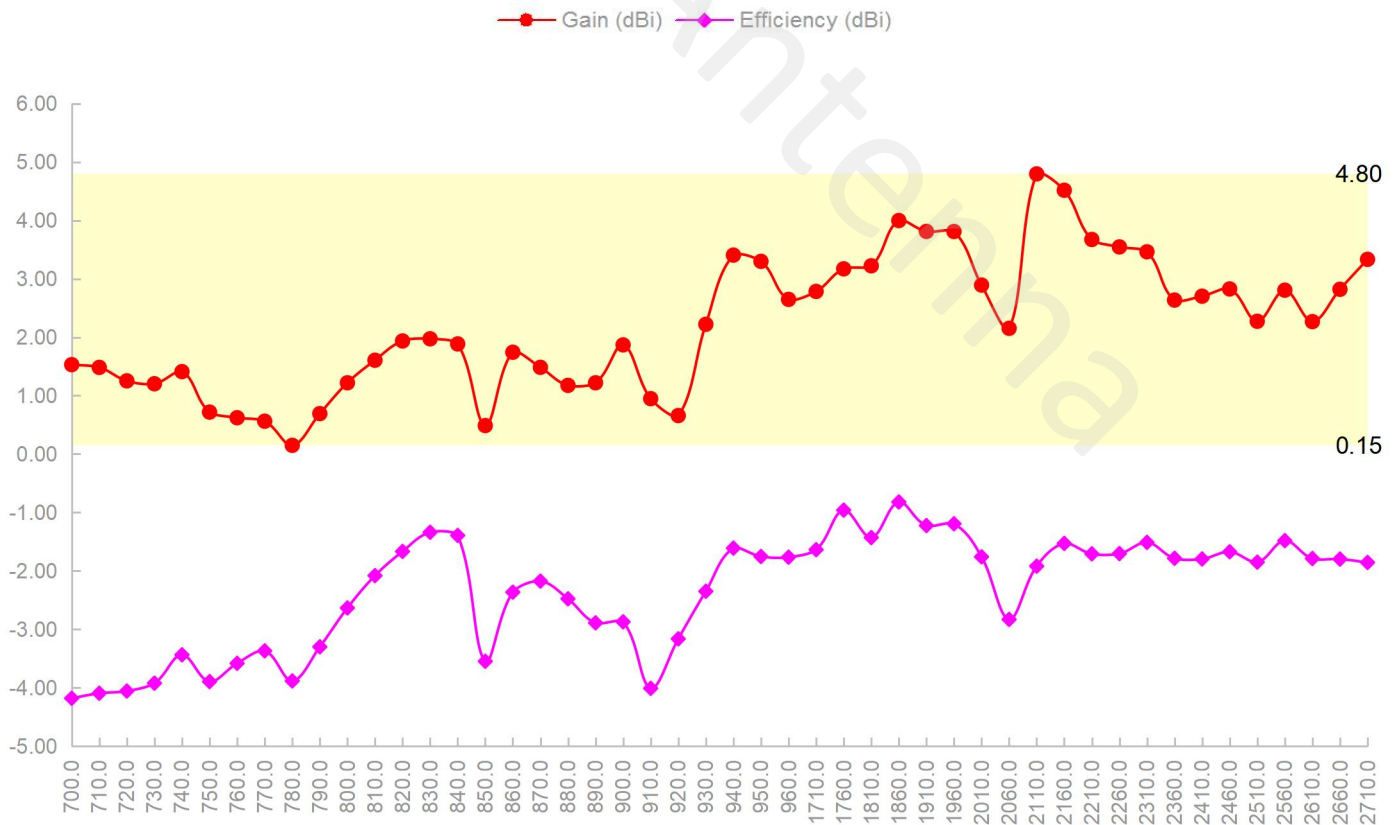


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4.2 Efficiency

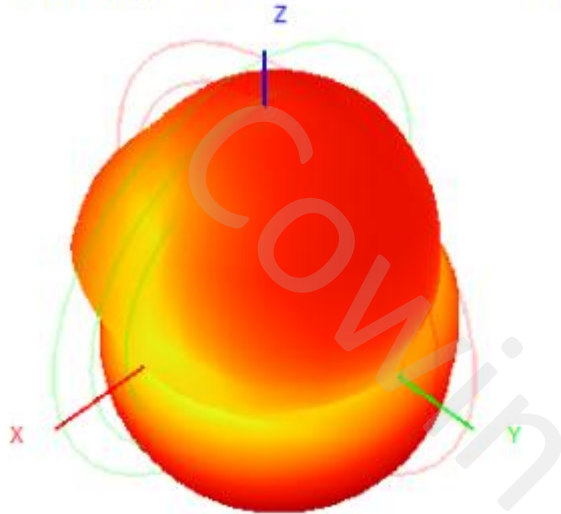


4.3 Peak gain

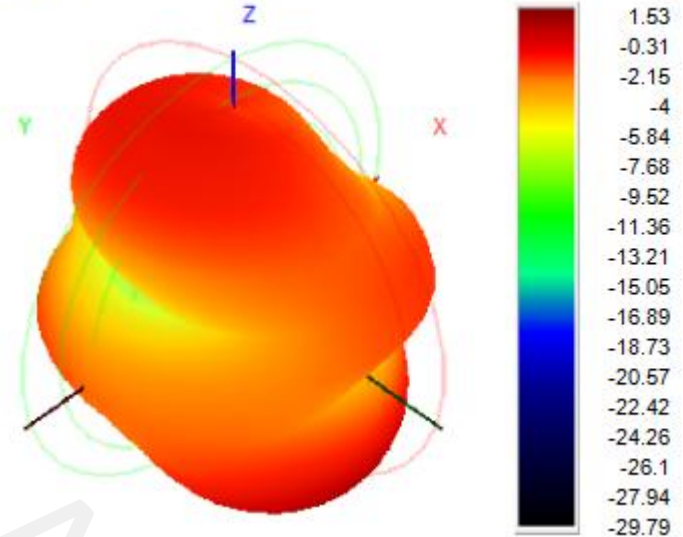


4.4 3D&2D Radiation Patterns

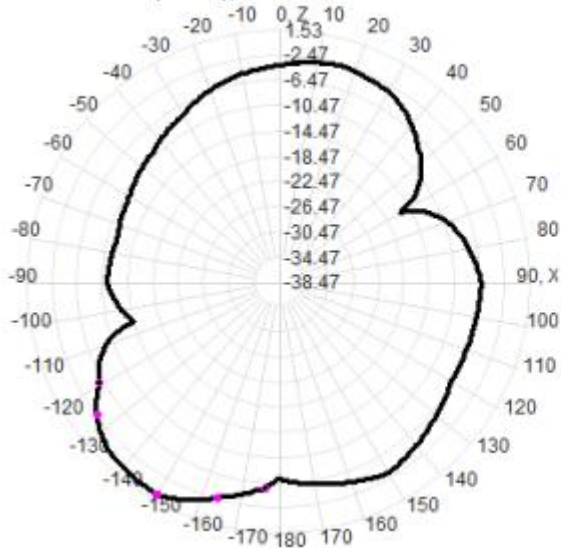
700.0MHz H+V, Eff: 38.2%



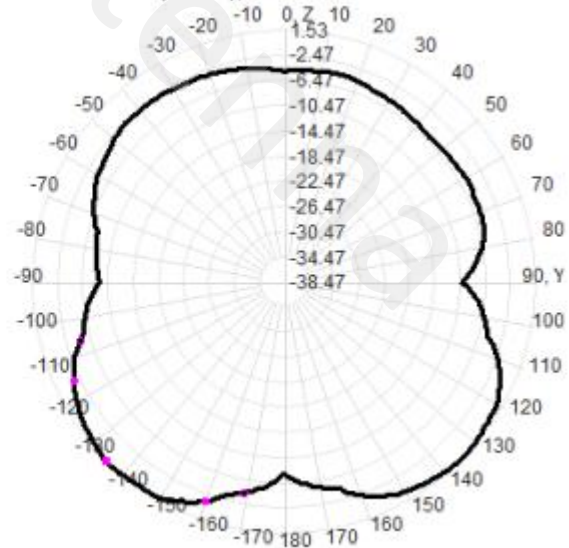
Back View



700.0MHz Total(E1-XZ), Max= 0.28dBi

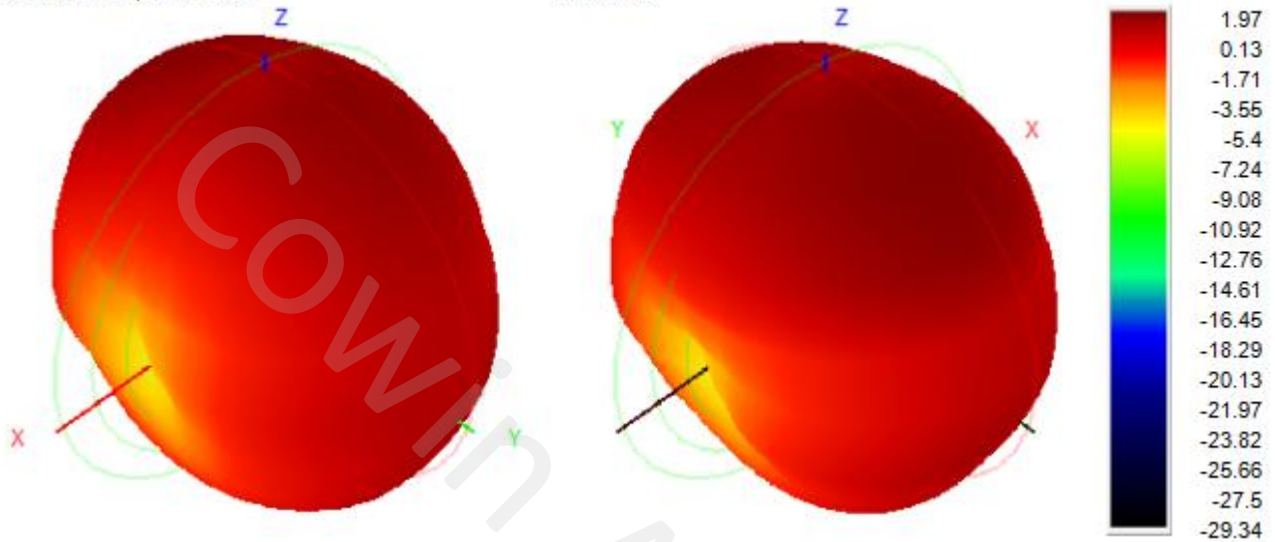


700.0MHz Total(E2-YZ), Max= 1.53dBi



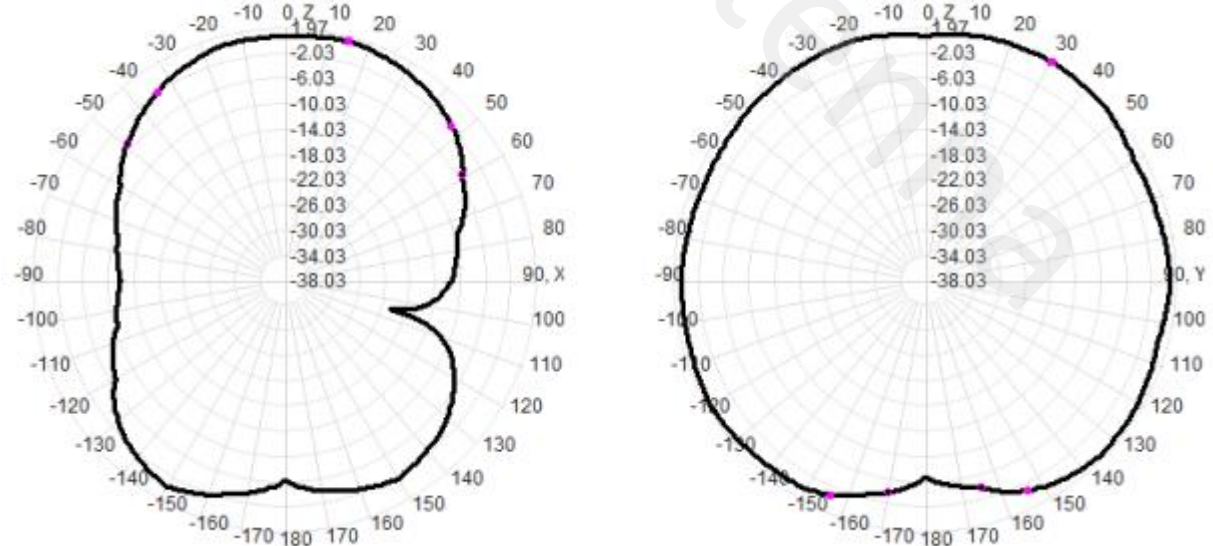
830.0MHz H+V, Eff: 73.5%

Back View



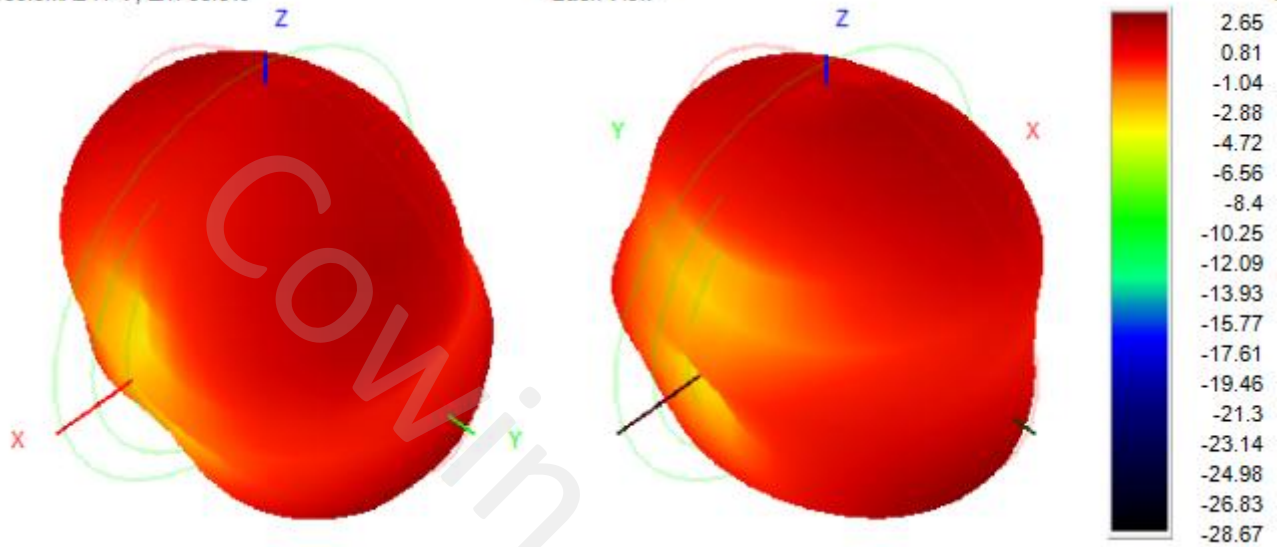
830.0MHz Total(E1-XZ), Max= 1.12dBi

830.0MHz Total(E2-YZ), Max= 1.97dBi

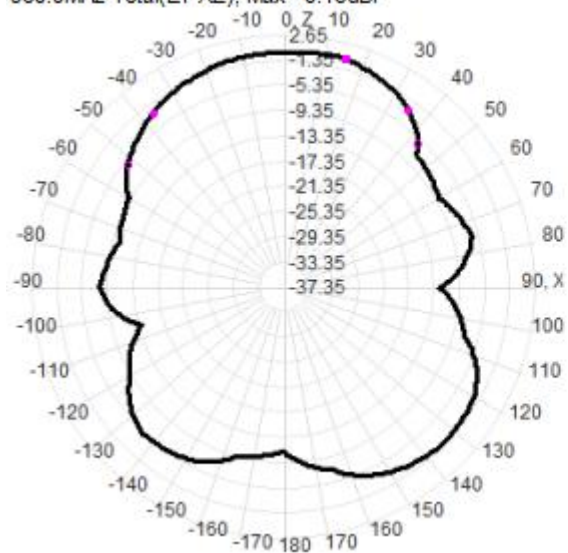


960.0MHz H+V, Eff: 66.6%

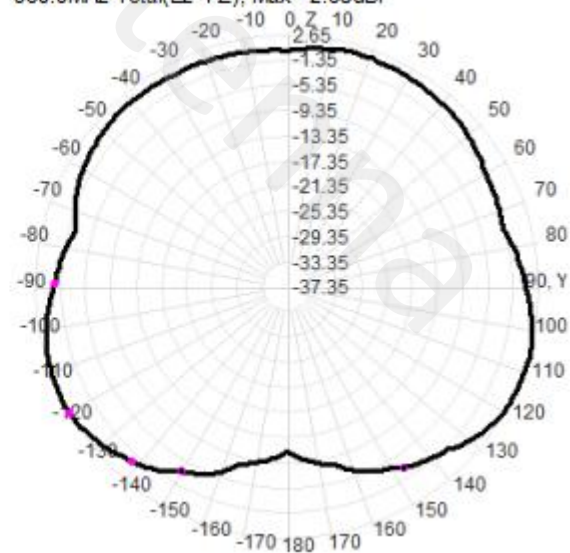
Back View



960.0MHz Total(E1-XZ), Max= 0.16dBi

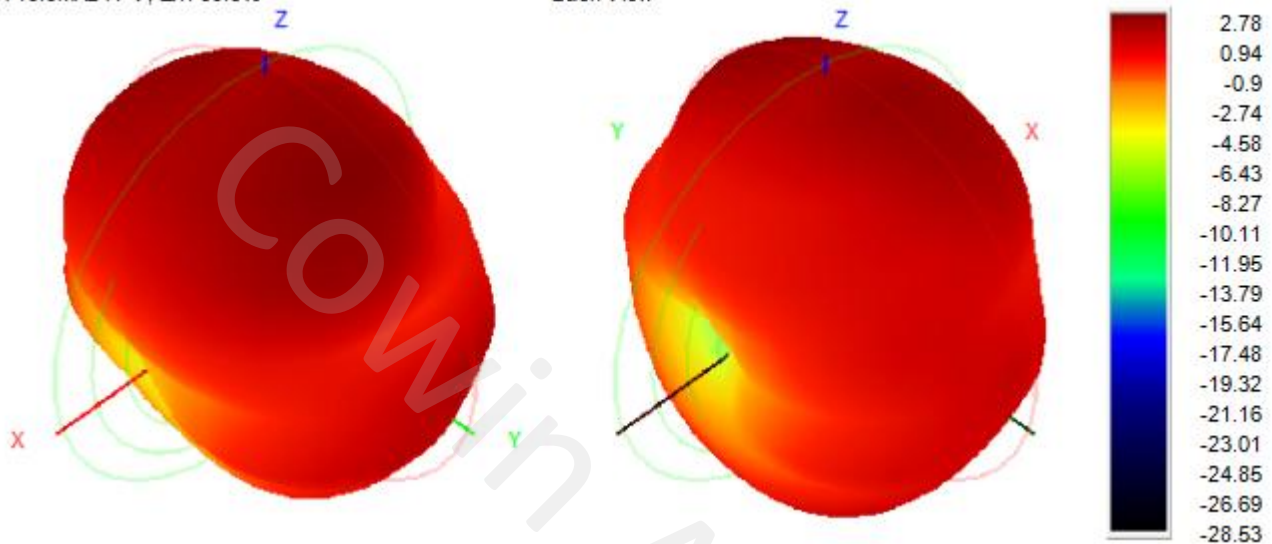


960.0MHz Total(E2-YZ), Max= 2.65dBi



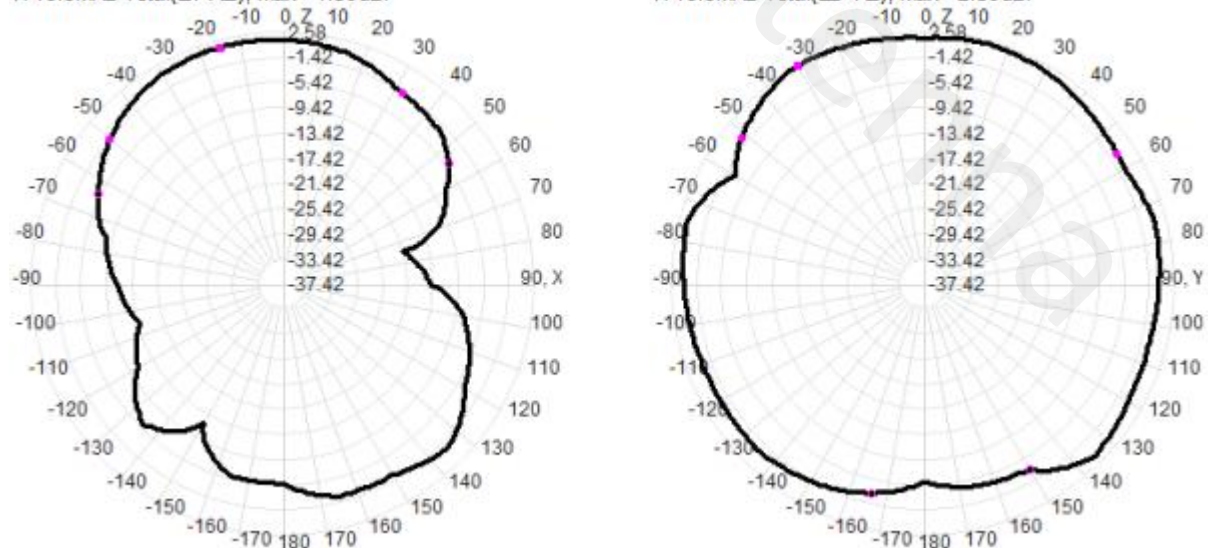
1710.0MHz H+V, Eff: 68.6%

Back View



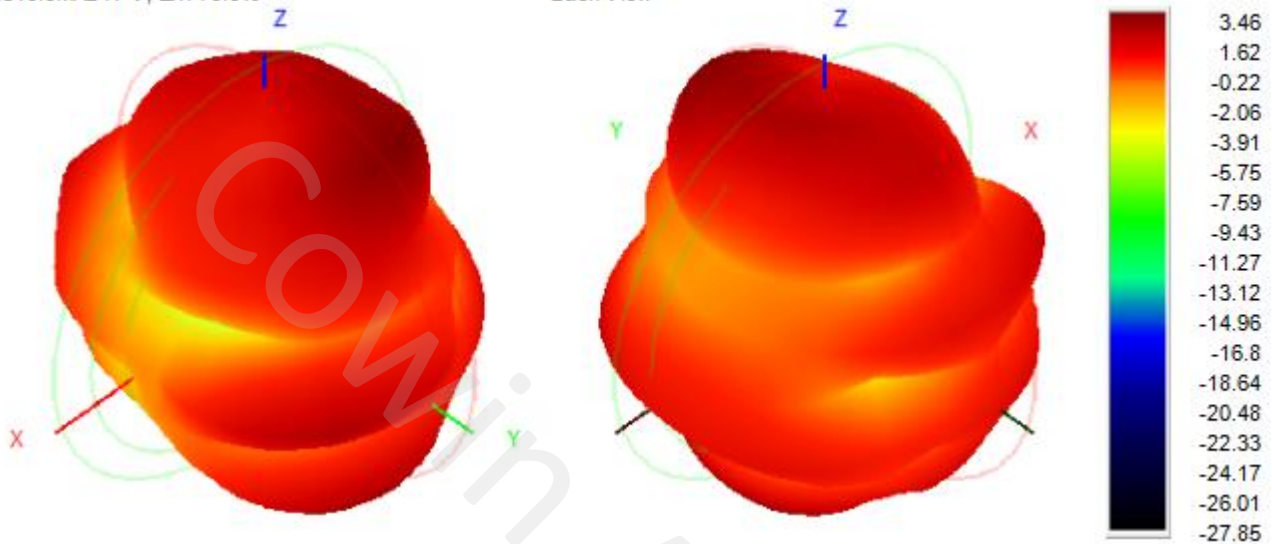
1710.0MHz Total(E1-XZ), Max= 1.38dBi

1710.0MHz Total(E2-YZ), Max= 2.58dBi



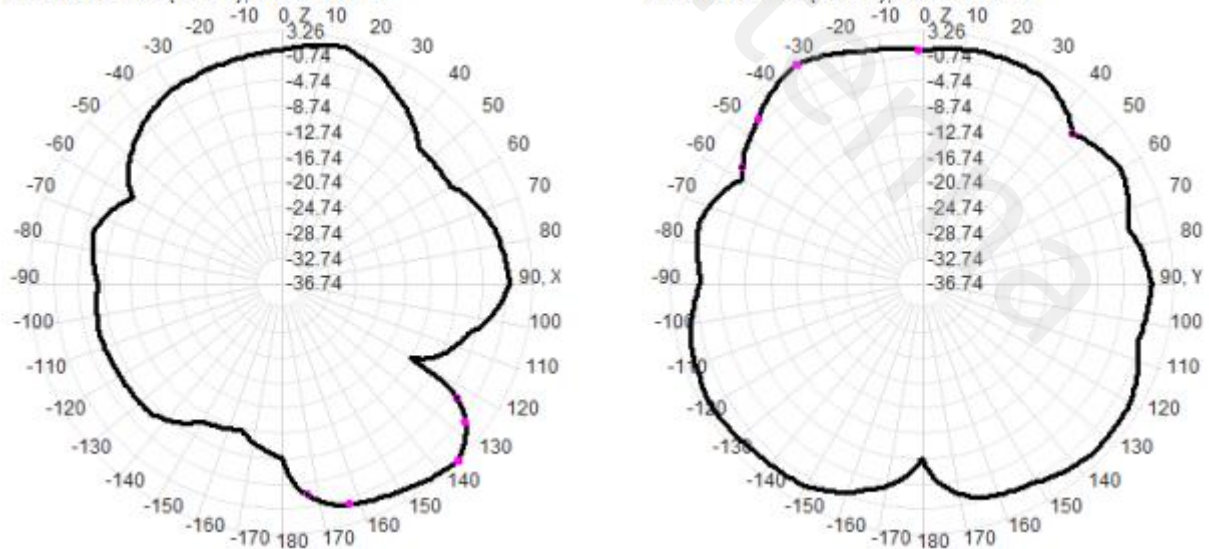
2310.0MHz H+V, Eff: 70.6%

Back View



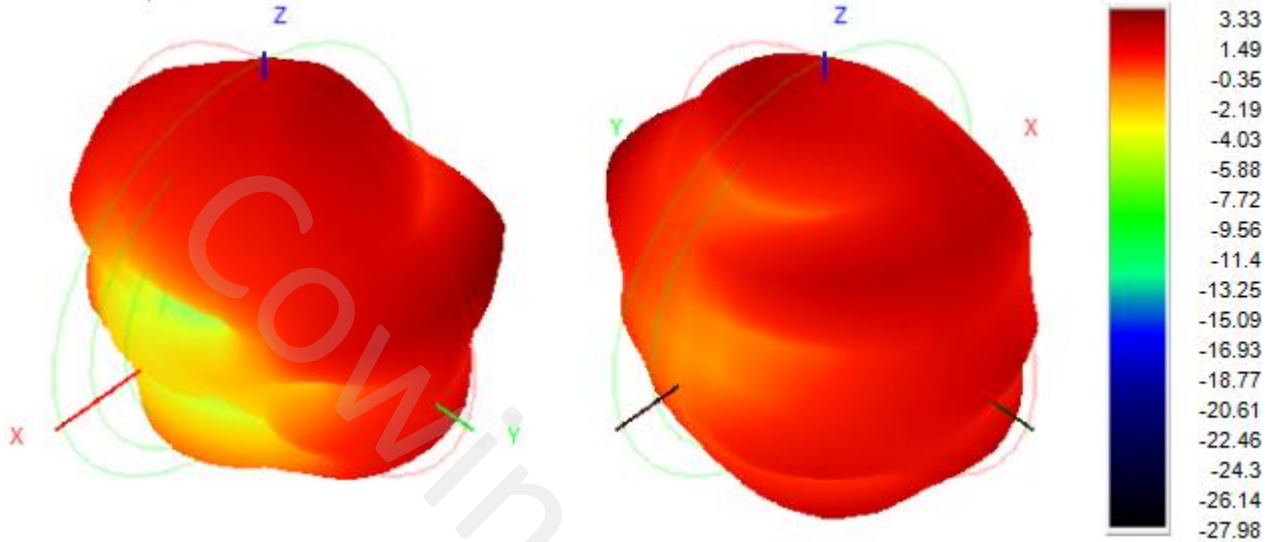
2310.0MHz Total(E1-XZ), Max= 2.96dBi

2310.0MHz Total(E2-YZ), Max= 3.26dBi



2710.0MHz H+V, Eff: 65.2%

Back View



2710.0MHz Total(E1-XZ), Max= 1.85dBi

2710.0MHz Total(E2-YZ), Max= 2.14dBi

