

CW-NZ-0177

Log Periodic Antenna

Key Features

Frequency: 800MHz-6G

90° SMA Female Connector

Dimensions 200*150*1.5mm

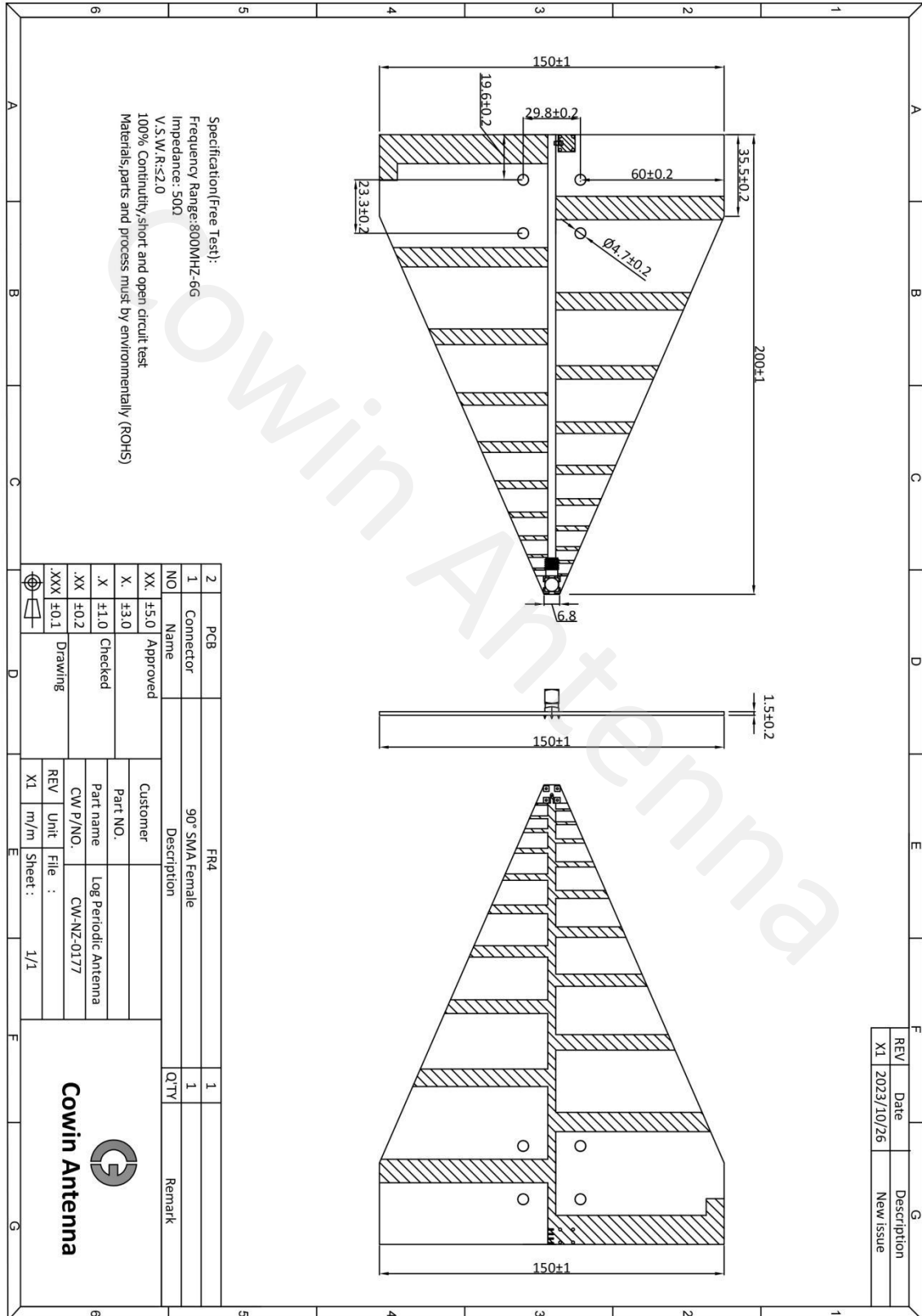


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	800MHZ-6G
VSWR	≤2.0
Efficiency (%)	62.18%
Peak Gain (dBi)	5.79
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	90° SMA Female

2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/PCB
Cable Type	N/A
Connector Type	90° SMA Female
Dimensions (mm)	200*150*1.5MM
Antenna color	Green
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

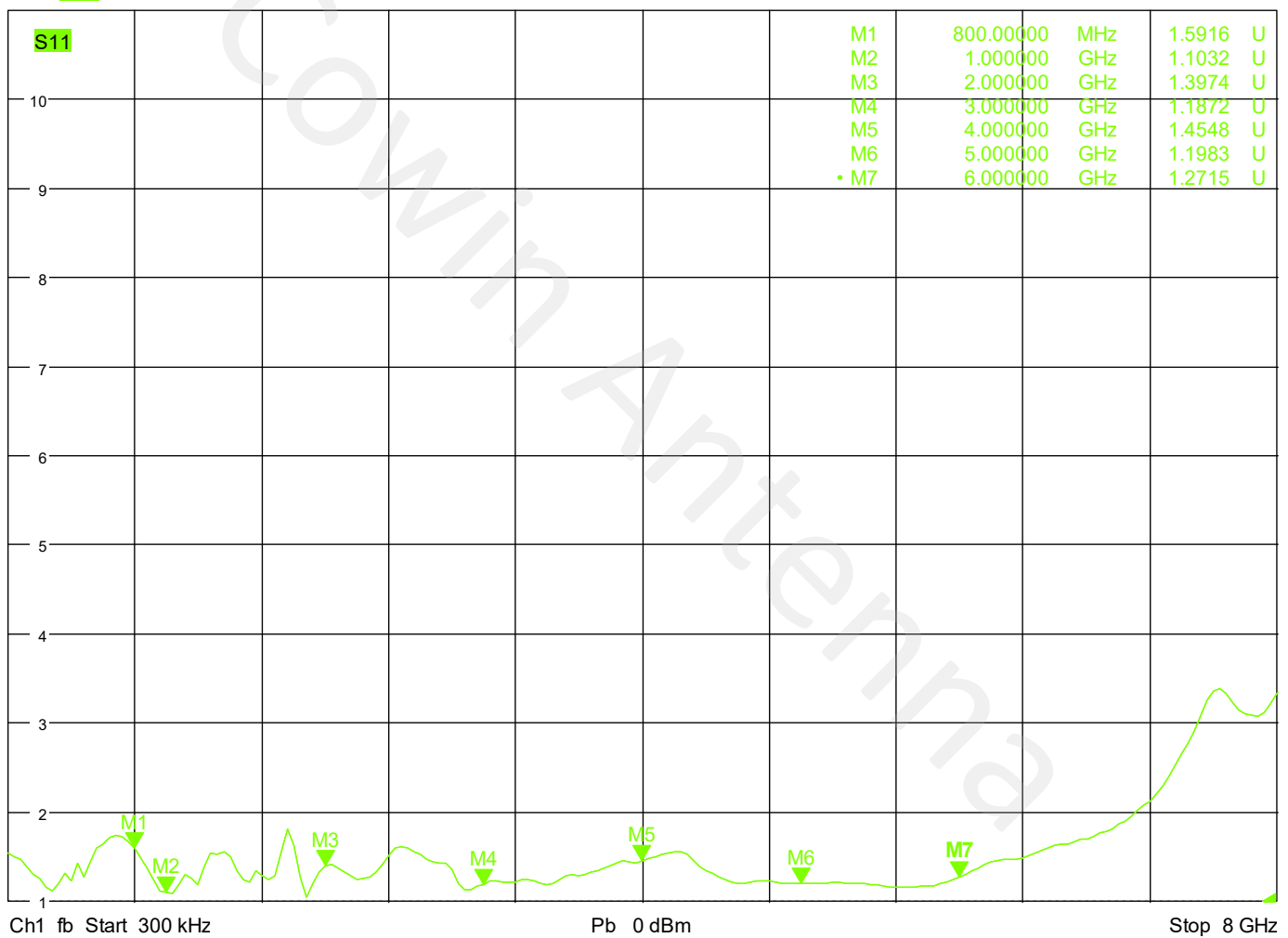
The comprehensive tester is Agilent cmv500



4.1 VSWR

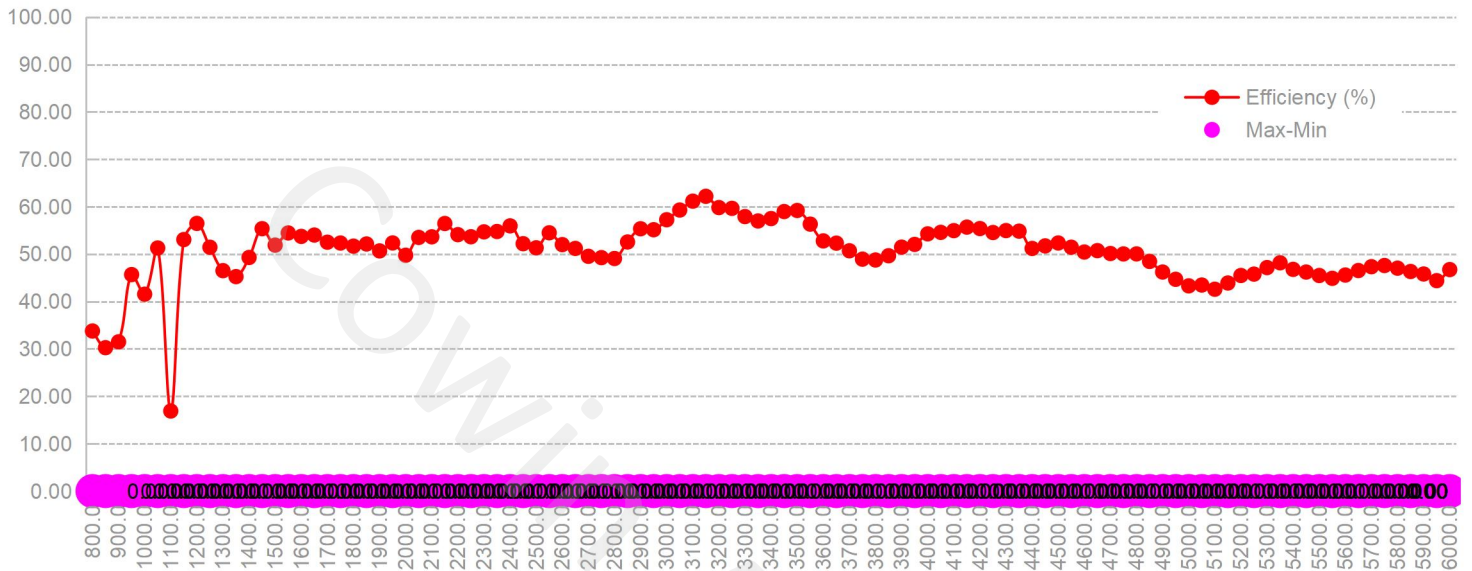
Trc1 **S11** SWR 1 U/ Ref 1 U Cal

1

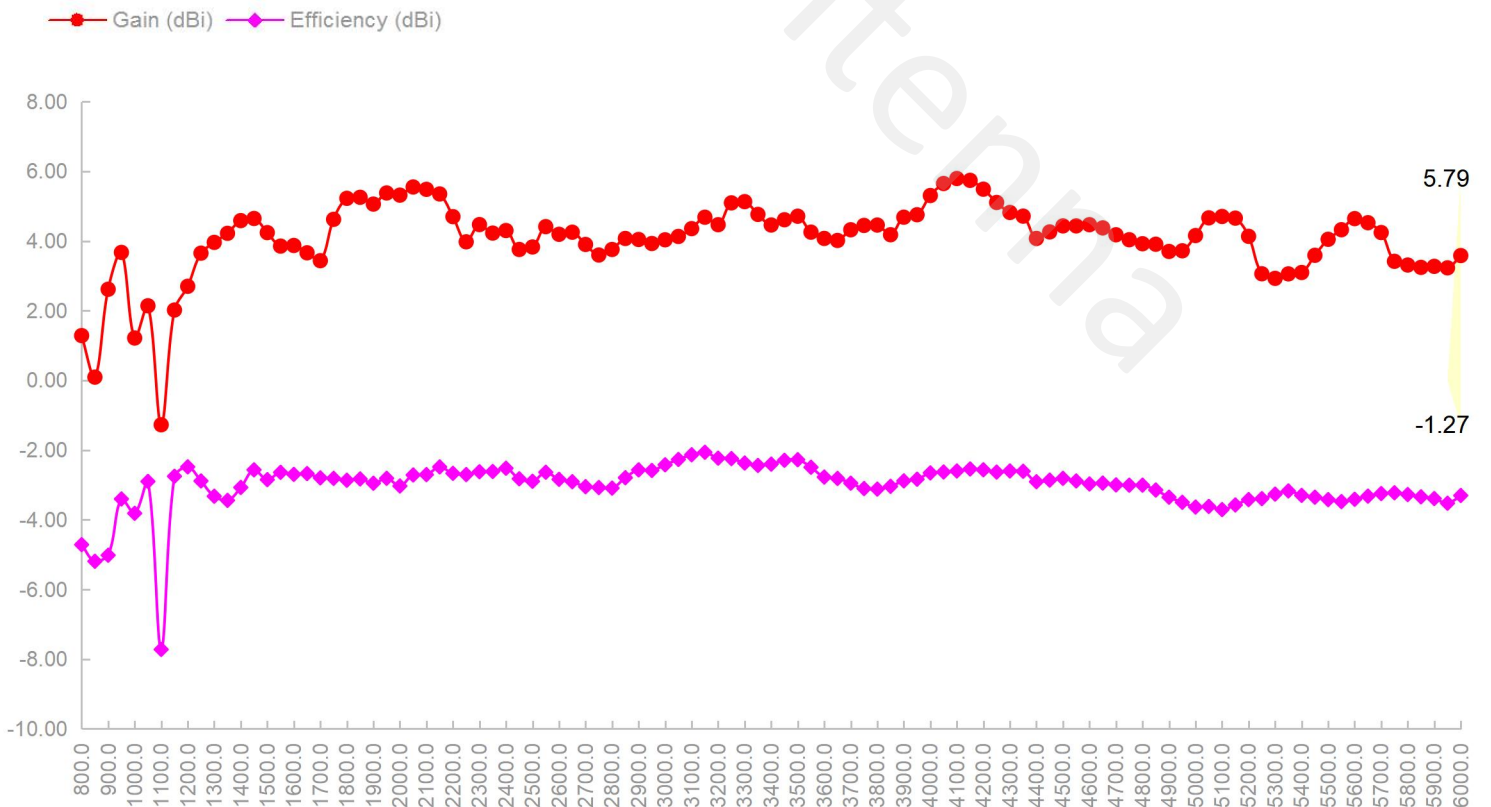


10/26/2023, 4:47 AM

4.2 Efficiency

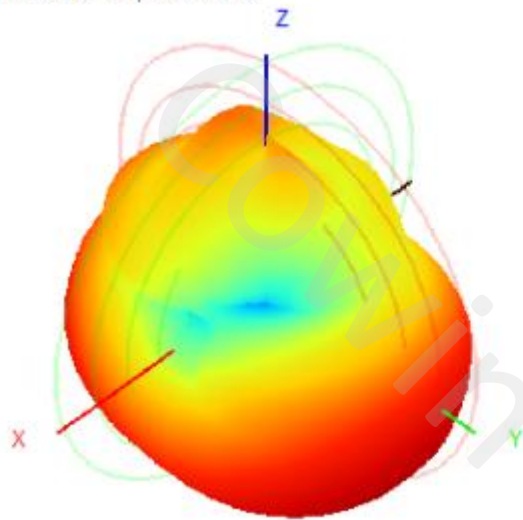


4.3 Peak gain

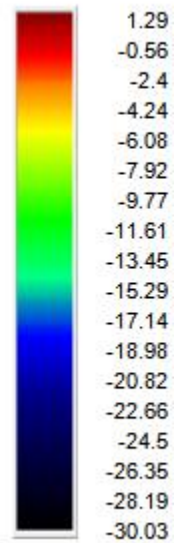
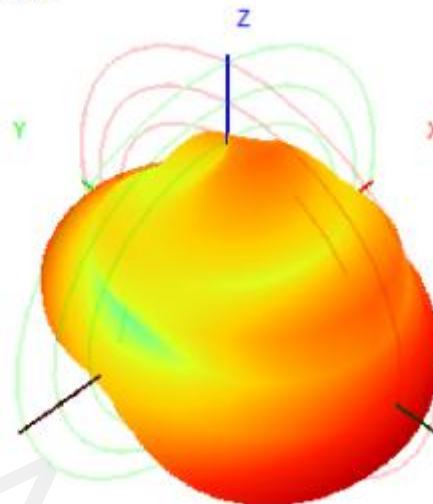


4.4 3D&2D Radiation Patterns

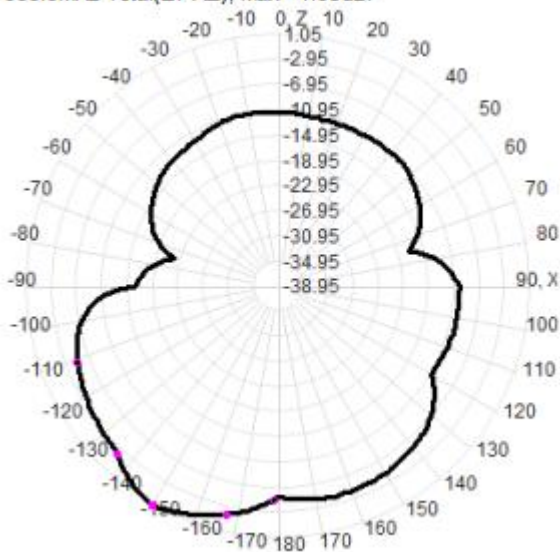
800.0MHz H+V, Eff: 33.8%



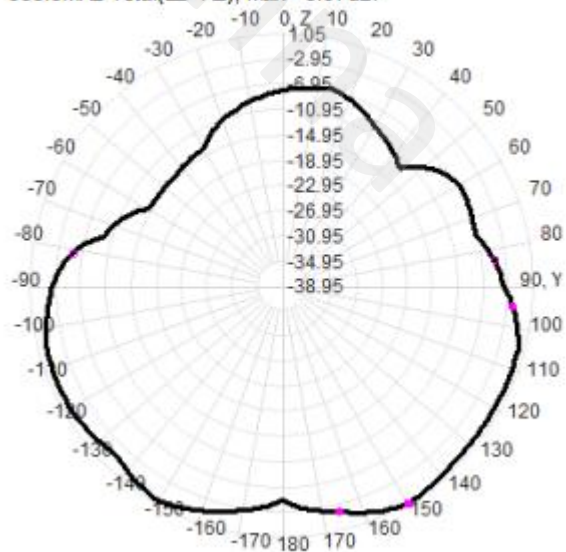
Back View



800.0MHz Total(E1-XZ), Max= 1.05dBi

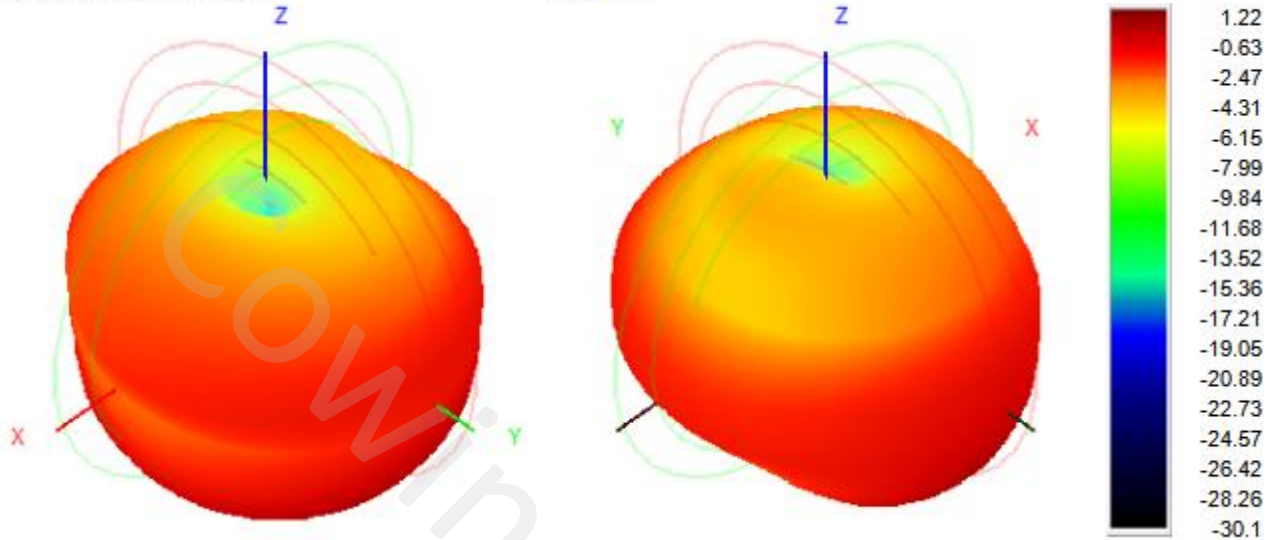


800.0MHz Total(E2-YZ), Max= 0.87dBi



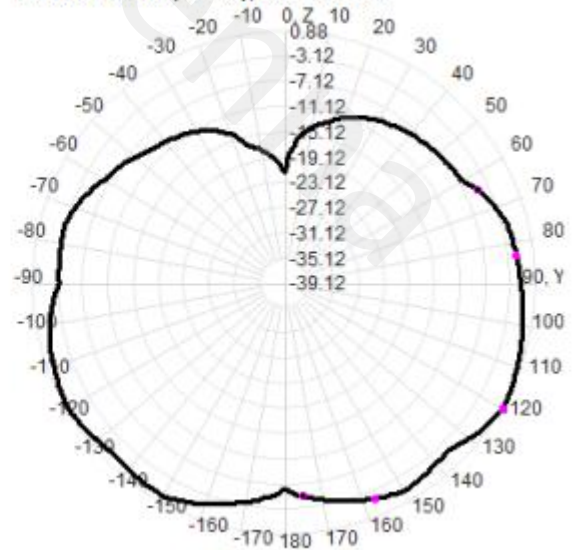
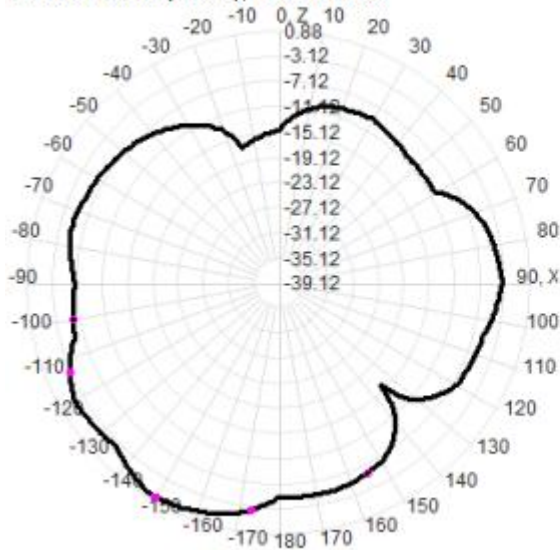
1000.0MHz H+V, Eff: 41.5%

Back View



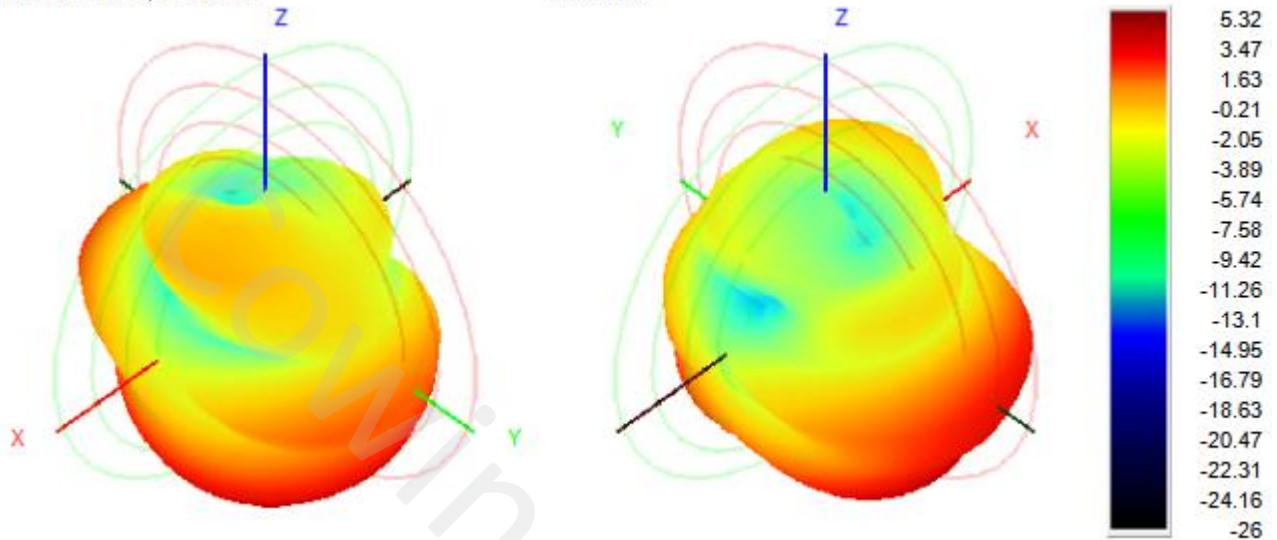
1000.0MHz Total(E1-XZ), Max= 0.07dBi

1000.0MHz Total(E2-YZ), Max= 0.88dBi



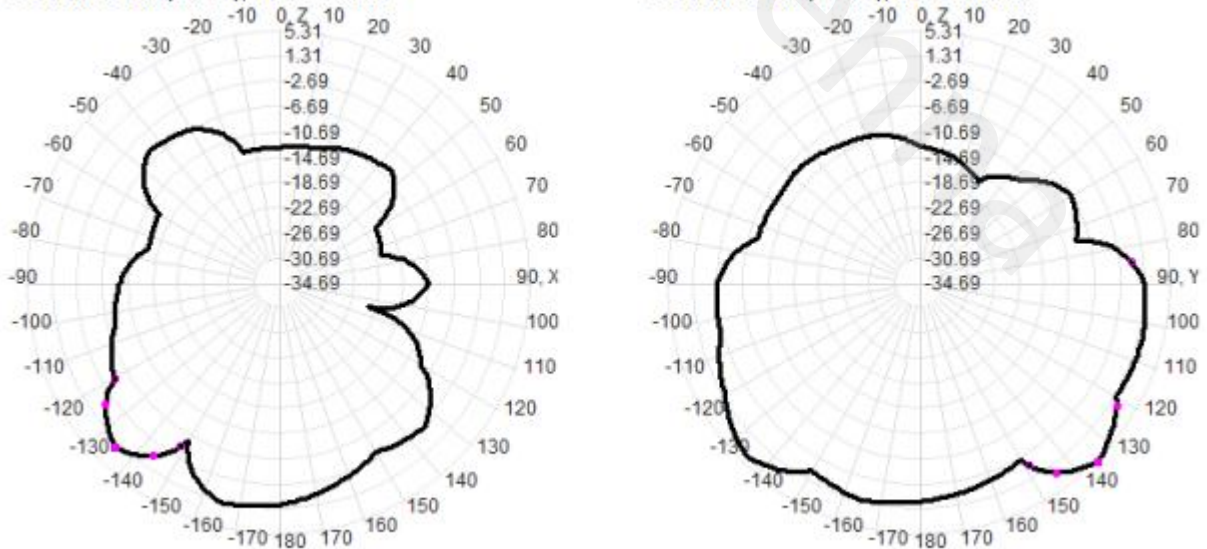
2000.0MHz H+V, Eff: 49.8%

Back View



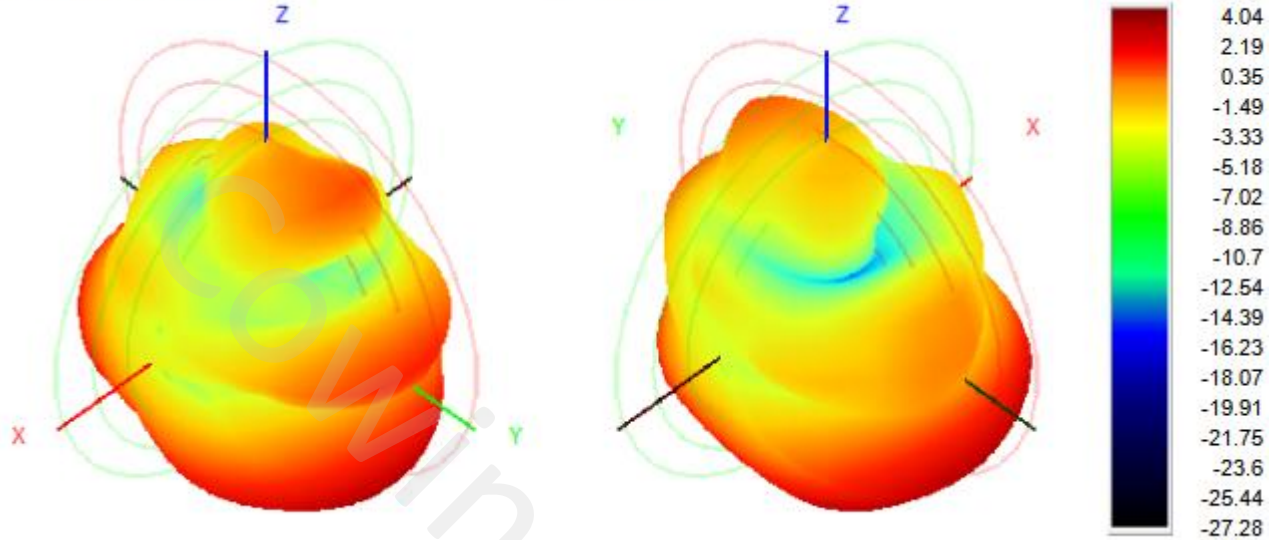
2000.0MHz Total(E1-XZ), Max= 2.02dBi

2000.0MHz Total(E2-YZ), Max= 5.31dBi

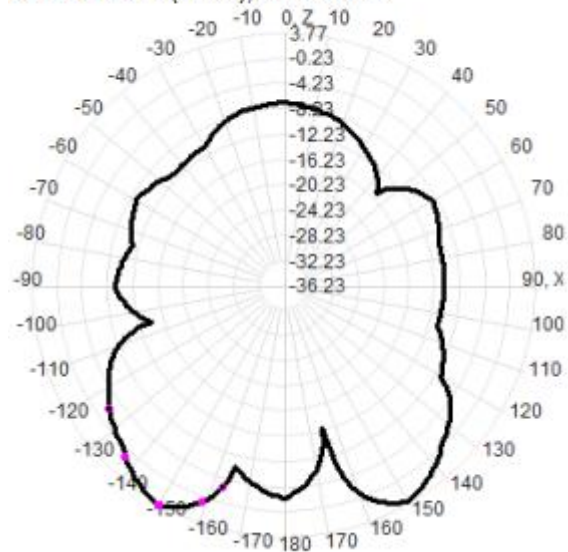


3000.0MHz H+V, Eff: 57.2%

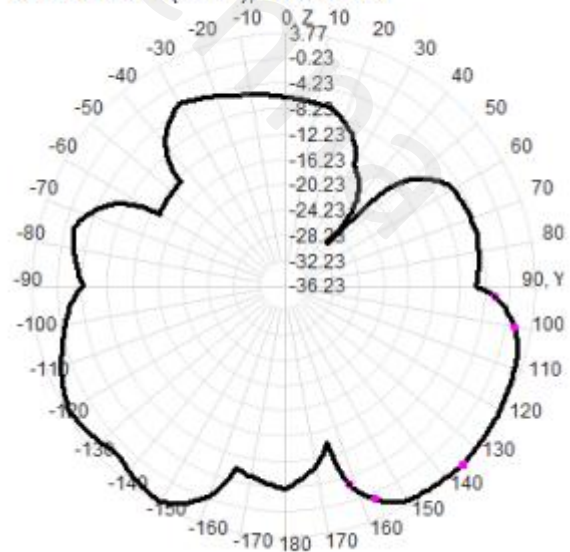
Back View



3000.0MHz Total(E1-XZ), Max= 3.77dBi

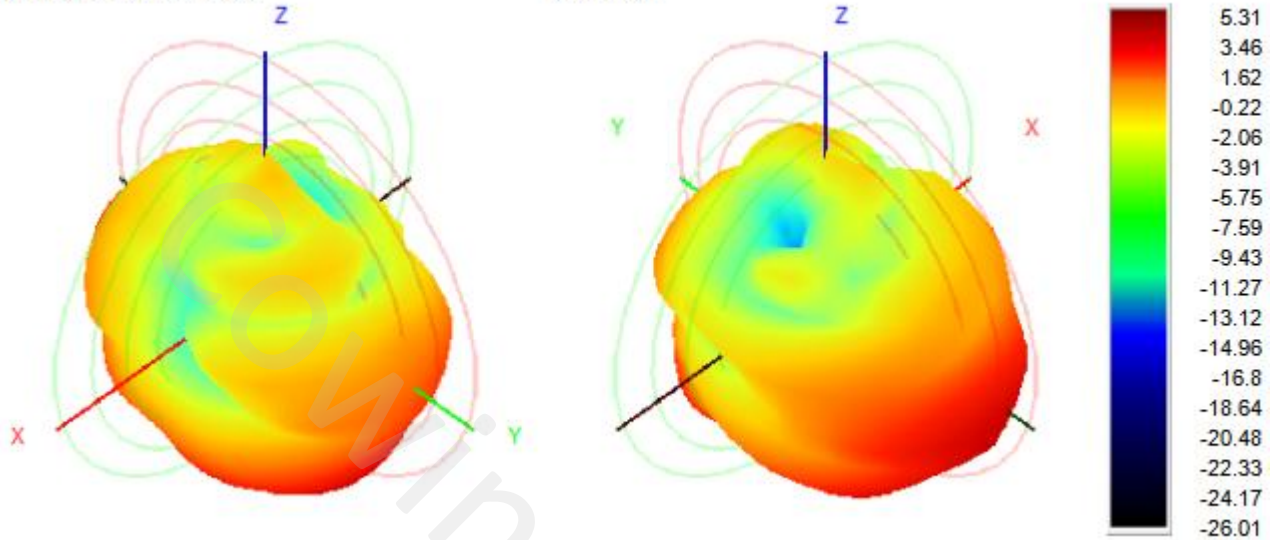


3000.0MHz Total(E2-YZ), Max= 3.70dBi

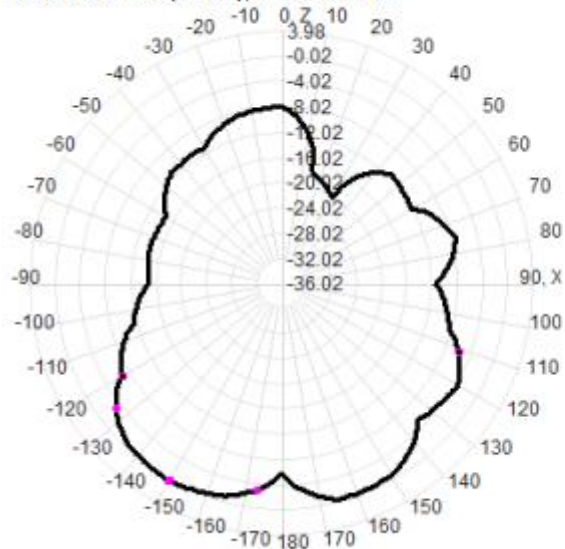


4000.0MHz H+V, Eff: 54.3%

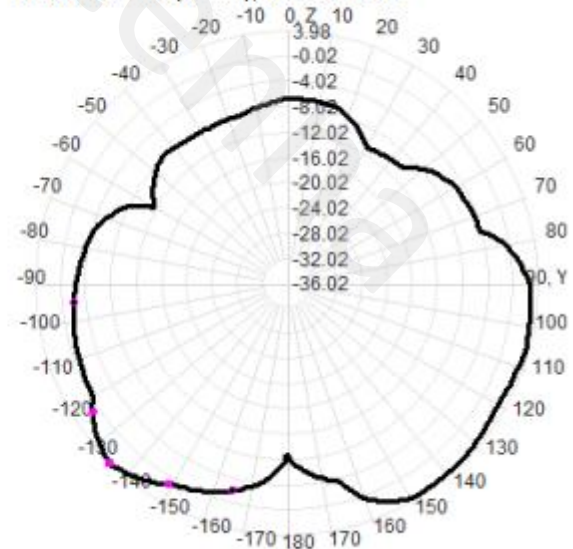
Back View



4000.0MHz Total(E1-XZ), Max= -0.11dBi

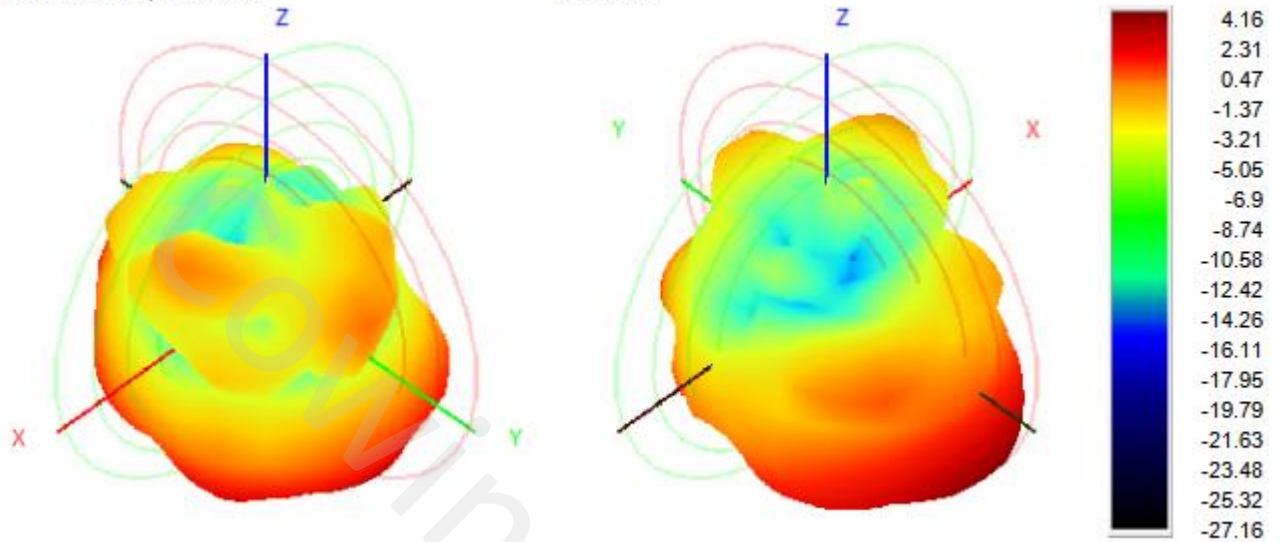


4000.0MHz Total(E2-YZ), Max= 3.98dBi



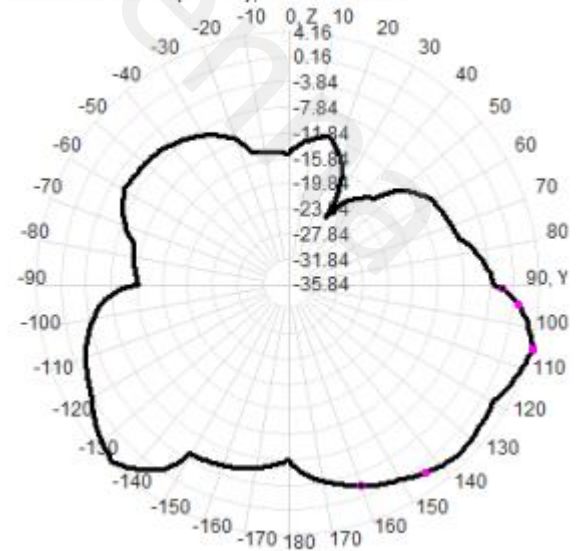
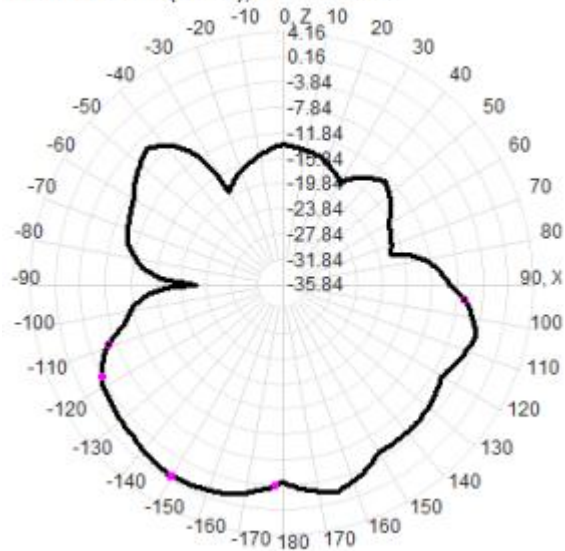
5000.0MHz H+V, Eff: 43.3%

Back View



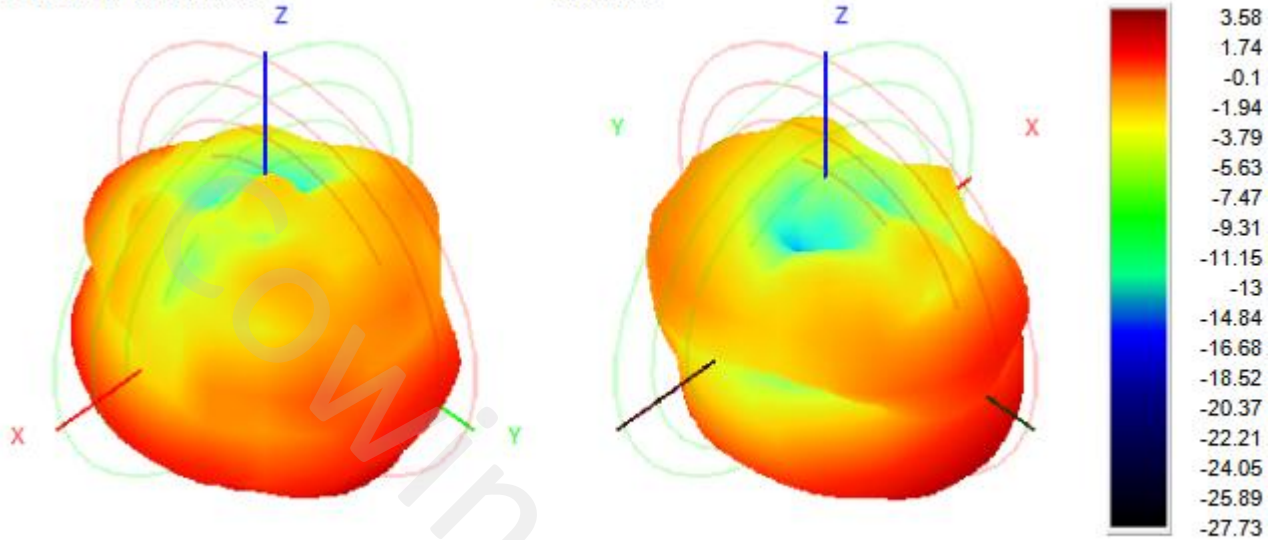
5000.0MHz Total(E1-XZ), Max= -0.77dBi

5000.0MHz Total(E2-YZ), Max= 4.16dBi



6000.0MHz H+V, Eff: 46.7%

Back View



6000.0MHz Total(E1-XZ), Max= -1.17dBi

6000.0MHz Total(E2-YZ), Max= 3.58dBi

