

CW-WZ-0171

2.4G/5.8G External Antenna

Key Features

Frequency:2400-2500MHZ/5150-5850MHZ

SMA Connector

Dimensions:394*13mm

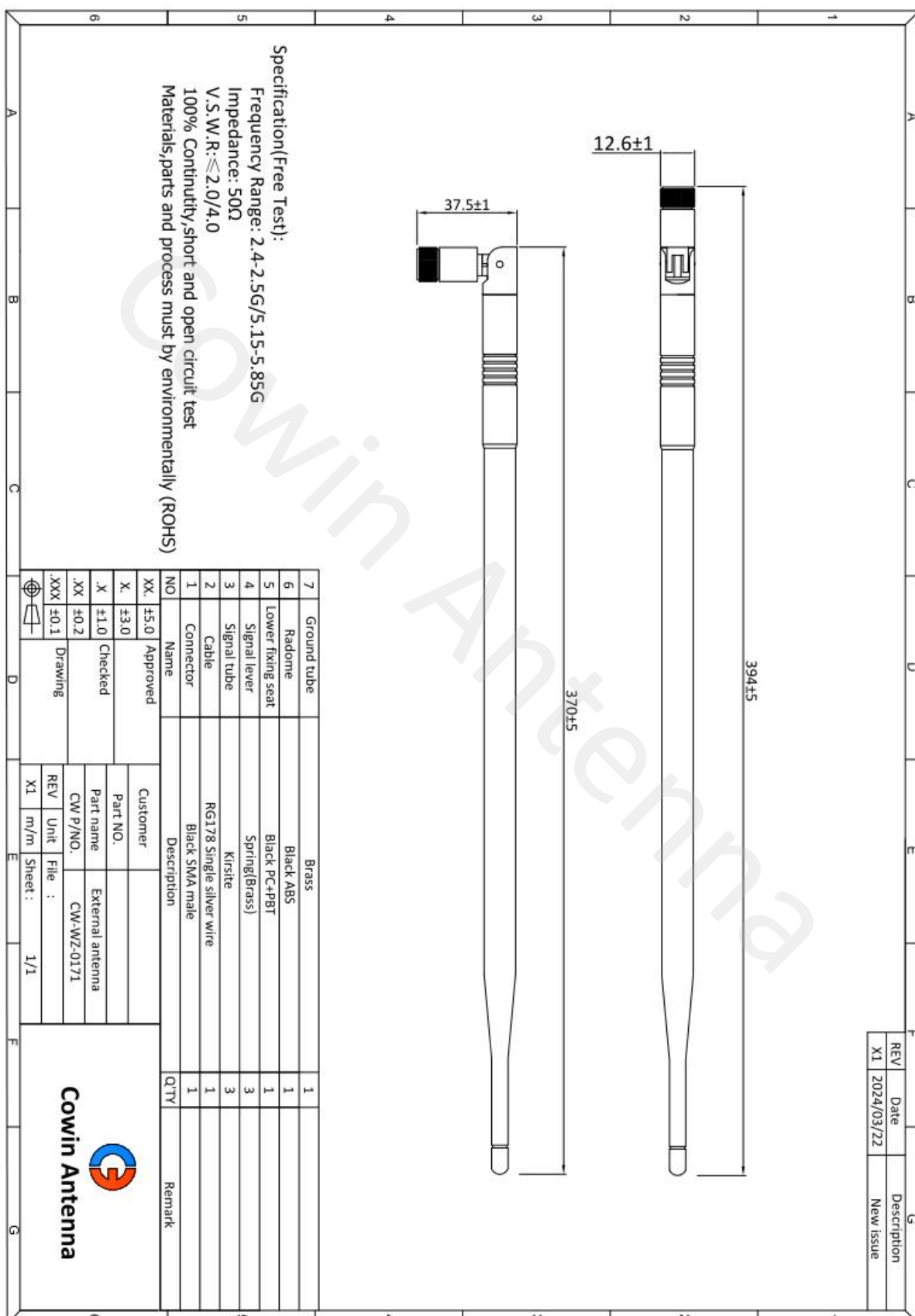


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500MHZ/5150-5850MHZ
VSWR	≤2.0/4.0
Efficiency (%)	95.90%/75.44%
Peak Gain (dBi)	9.26/4.34
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	Signal tube +Signal lever
Cable Type	RG178
Connector Type	SMA
Dimensions (mm)	394*13 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

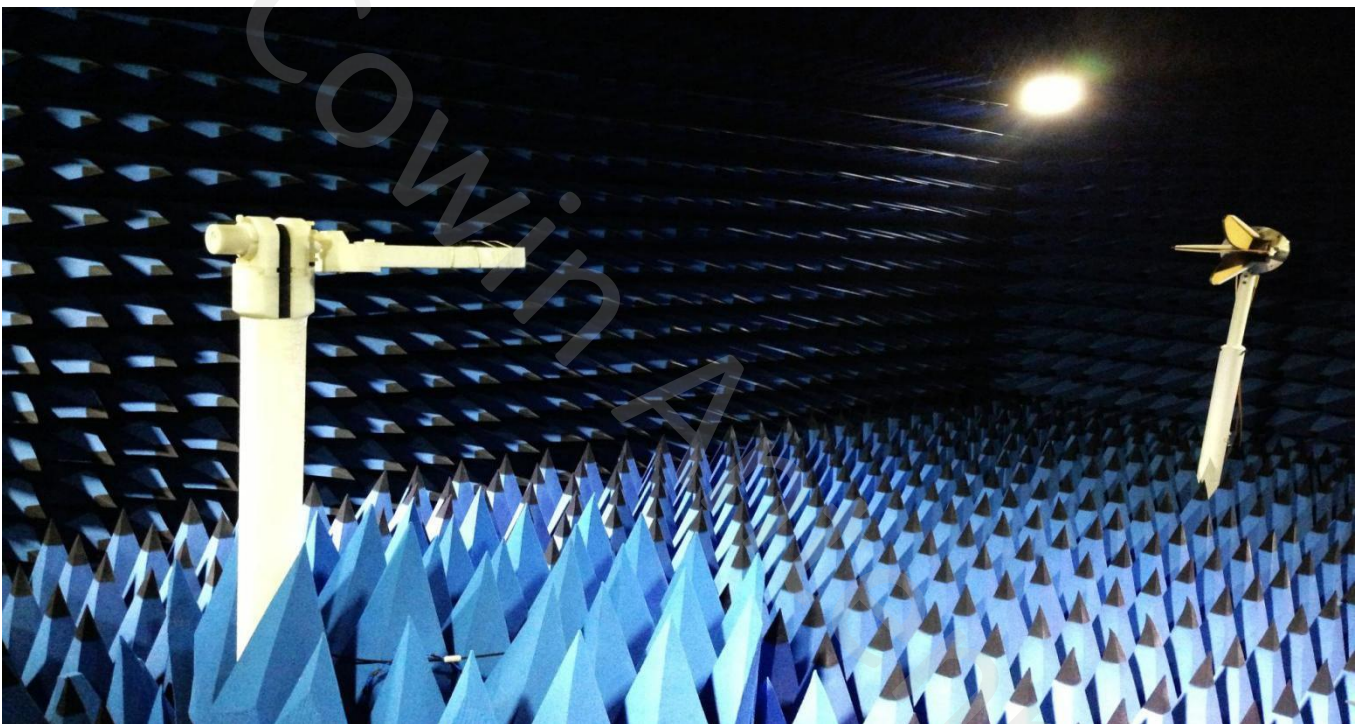
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

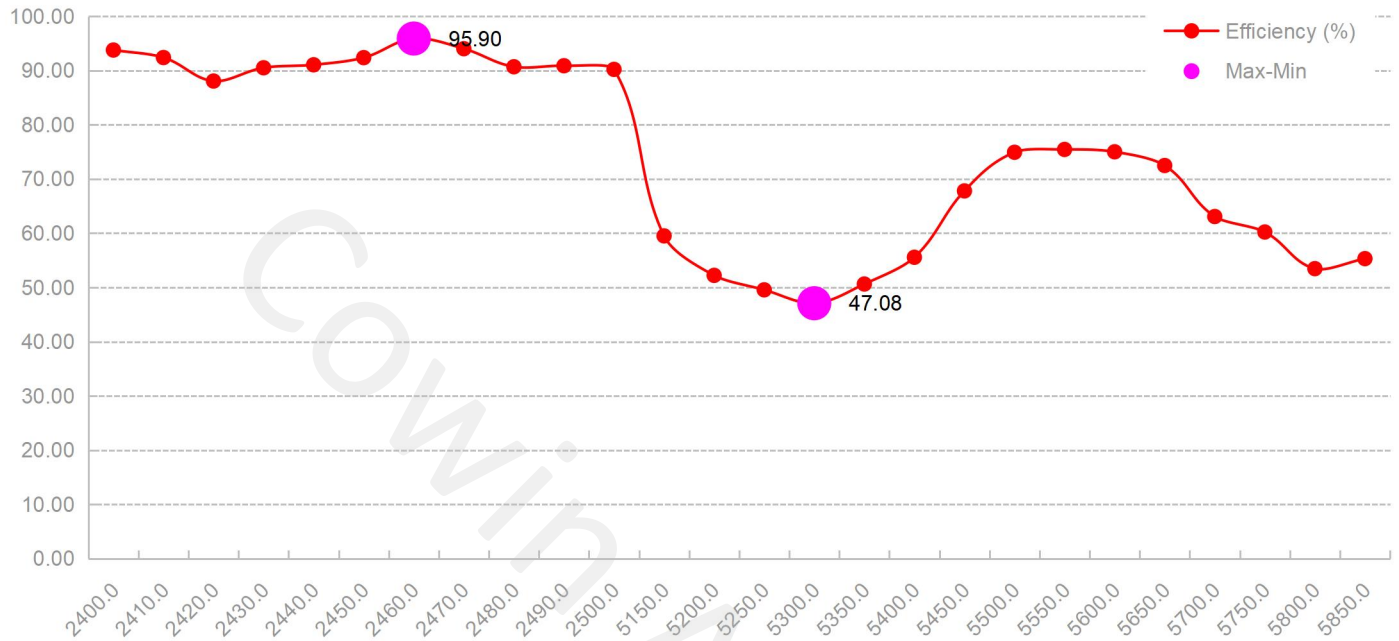
The comprehensive tester is Agilent cmv500



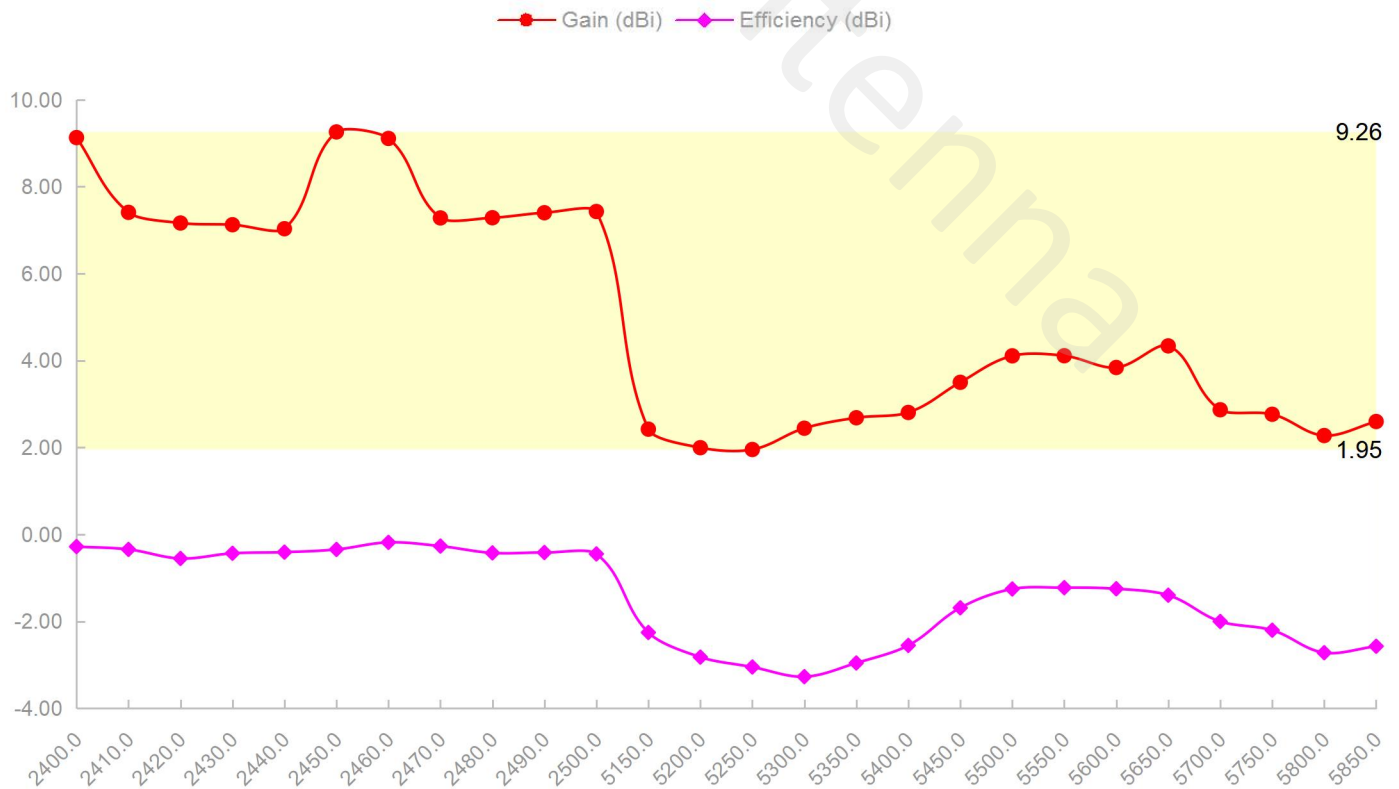
4.1 VSWR



4.2 Efficiency



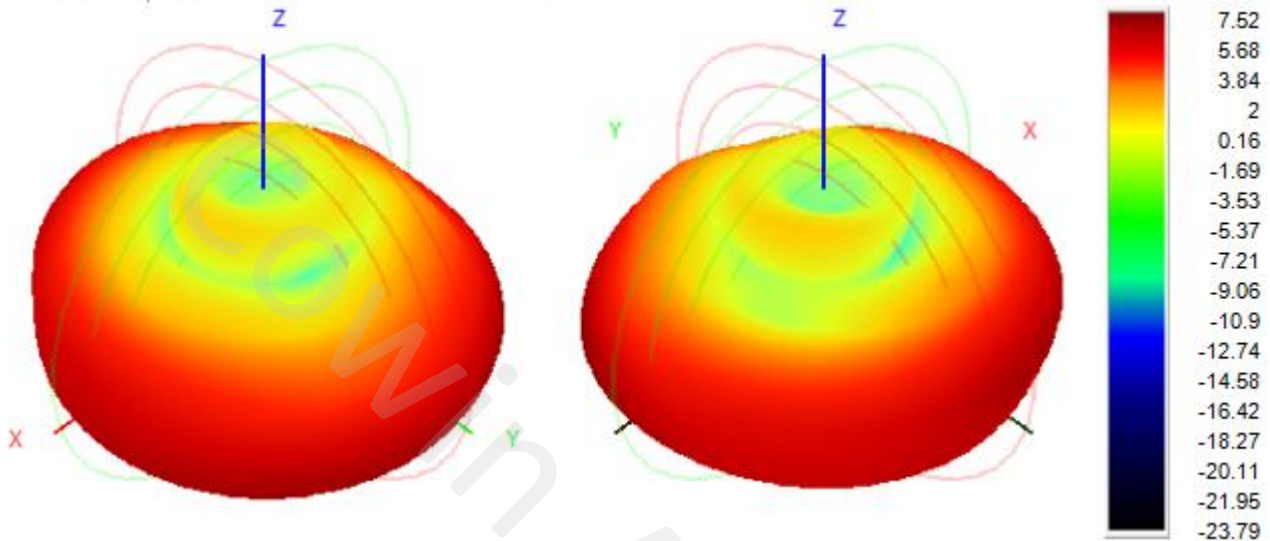
4.3 Peak gain



4.4 3D&2D Radiation Patterns

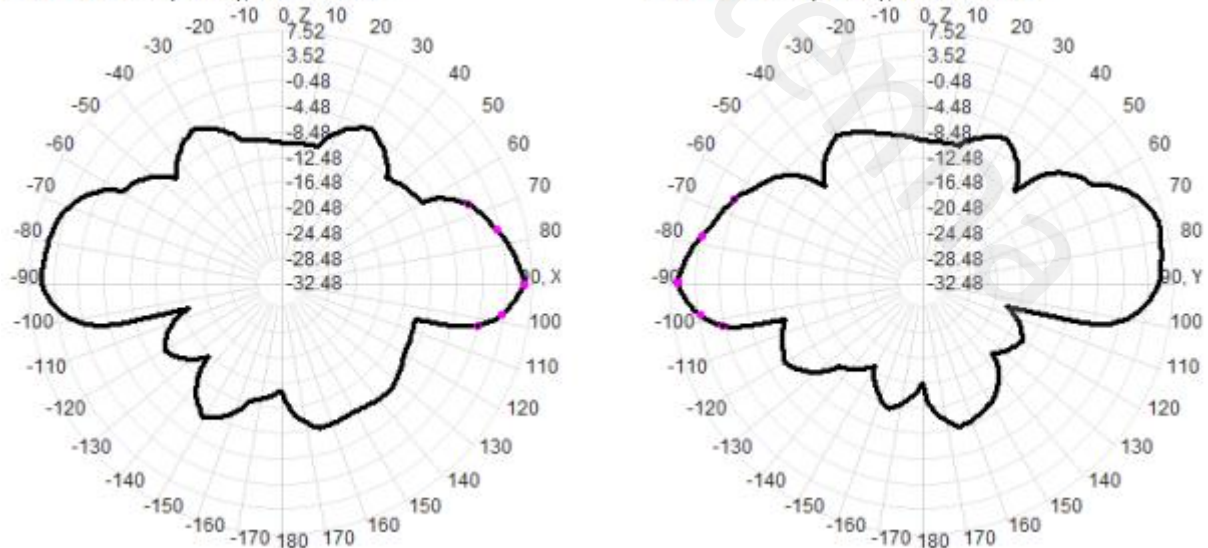
2400.0MHz H+V, Eff: 93.8%

Back View



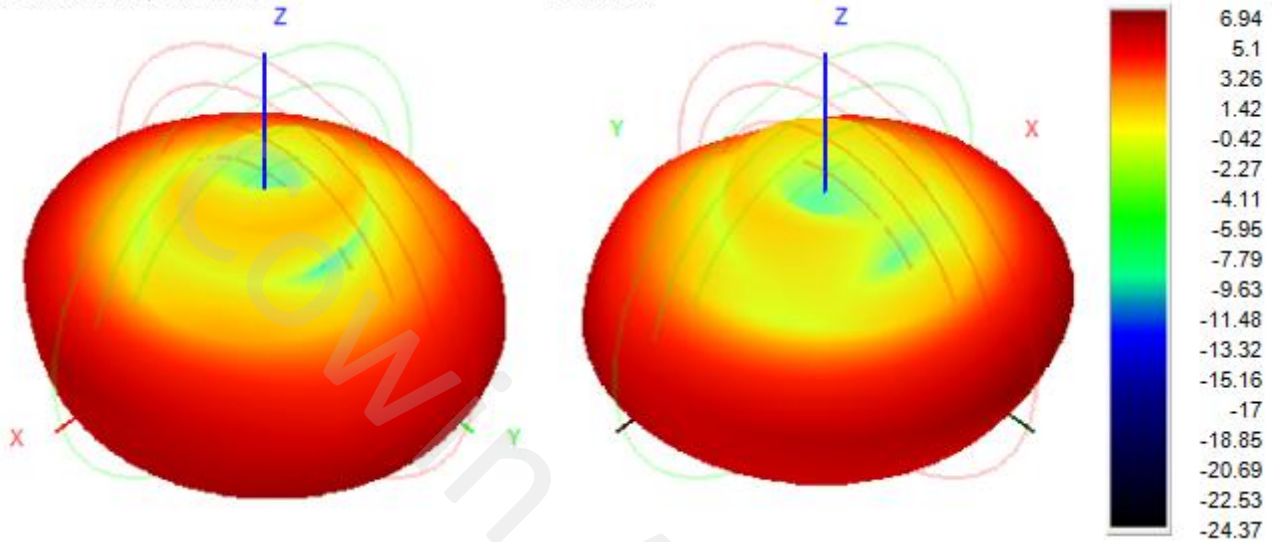
2400.0MHz Total(E1-XZ), Max= 6.03dBi

2400.0MHz Total(E2-YZ), Max= 6.29dBi



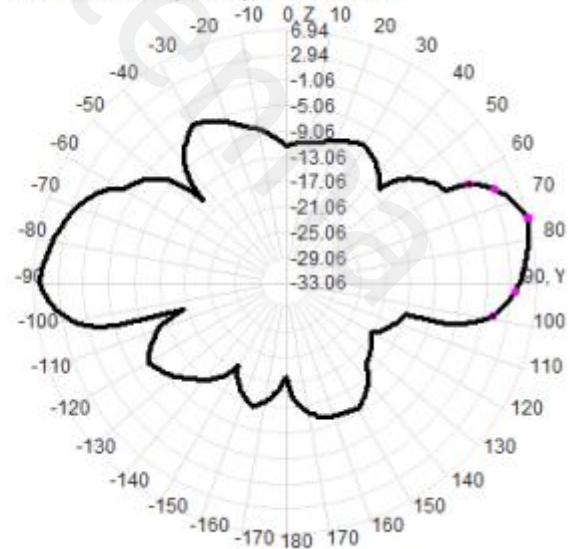
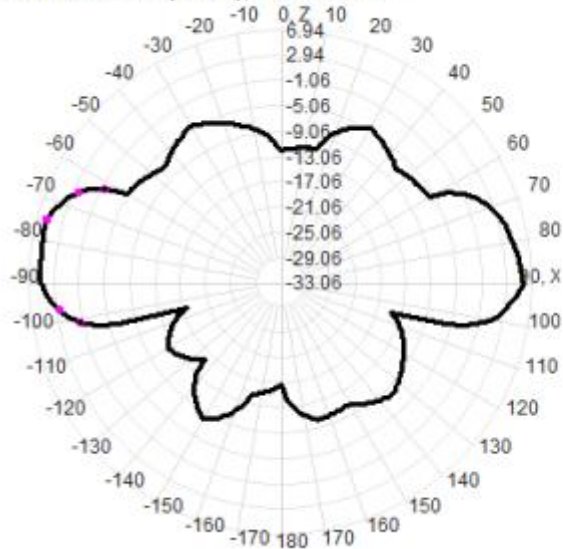
2450.0MHz H+V, Eff: 92.4%

Back View

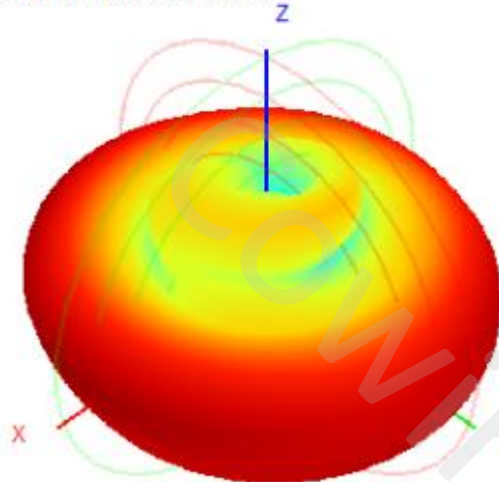


2450.0MHz Total(E1-XZ), Max= 5.45dBi

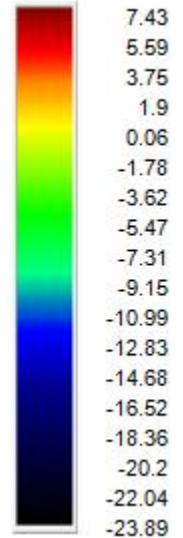
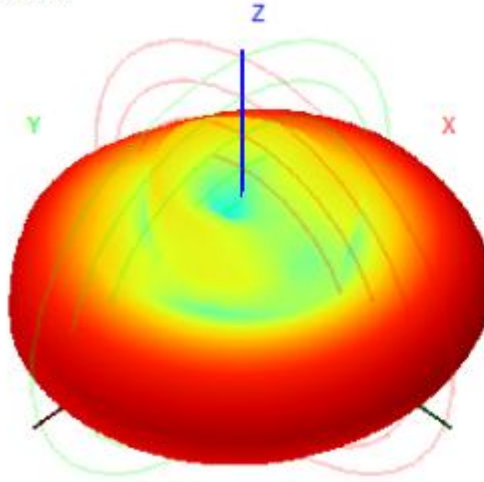
2450.0MHz Total(E2-YZ), Max= 6.68dBi



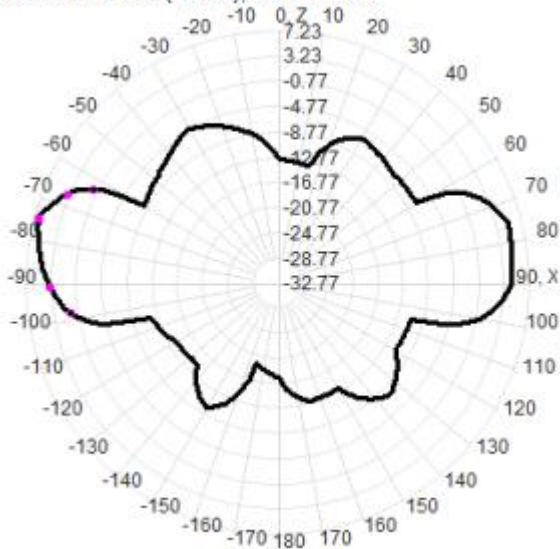
2500.0MHz H+V, Eff: 90.2%



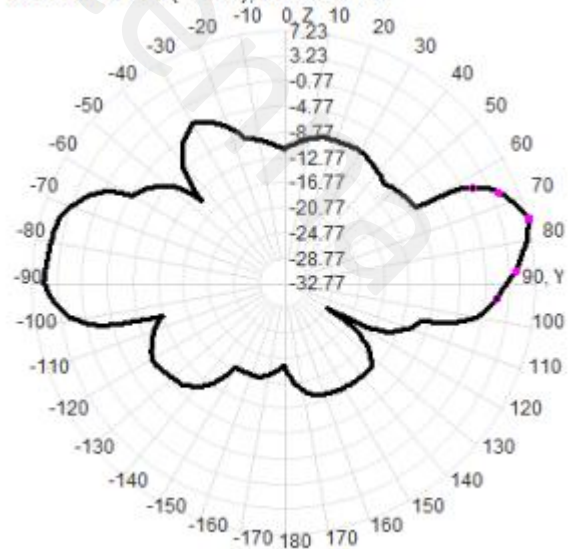
Back View



2500.0MHz Total(E1-XZ), Max= 6.57dBi

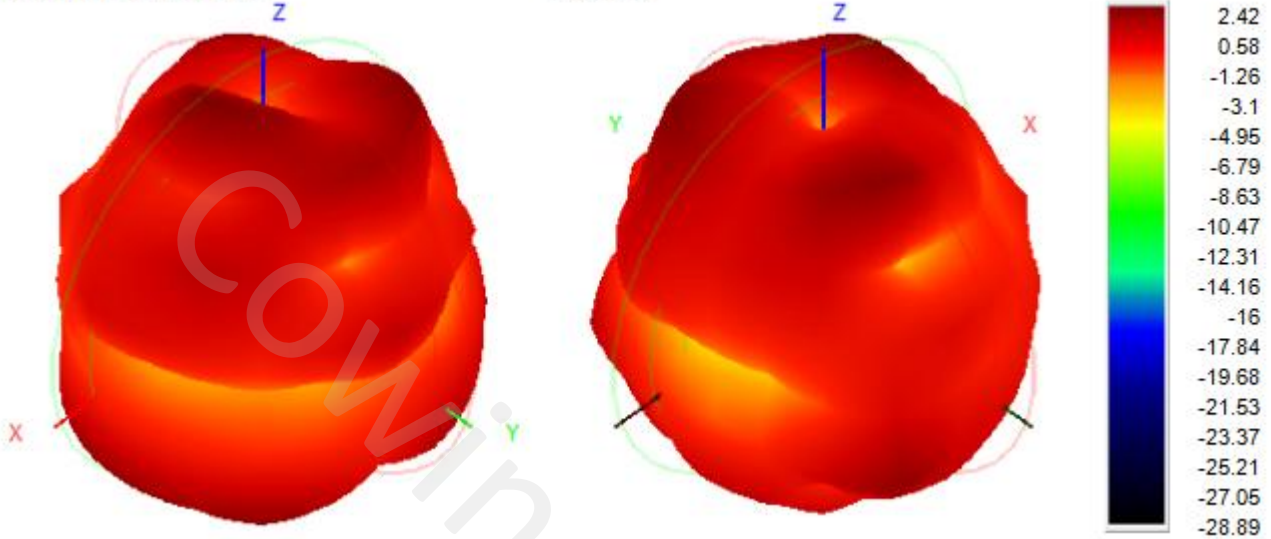


2500.0MHz Total(E2-YZ), Max= 7.23dBi



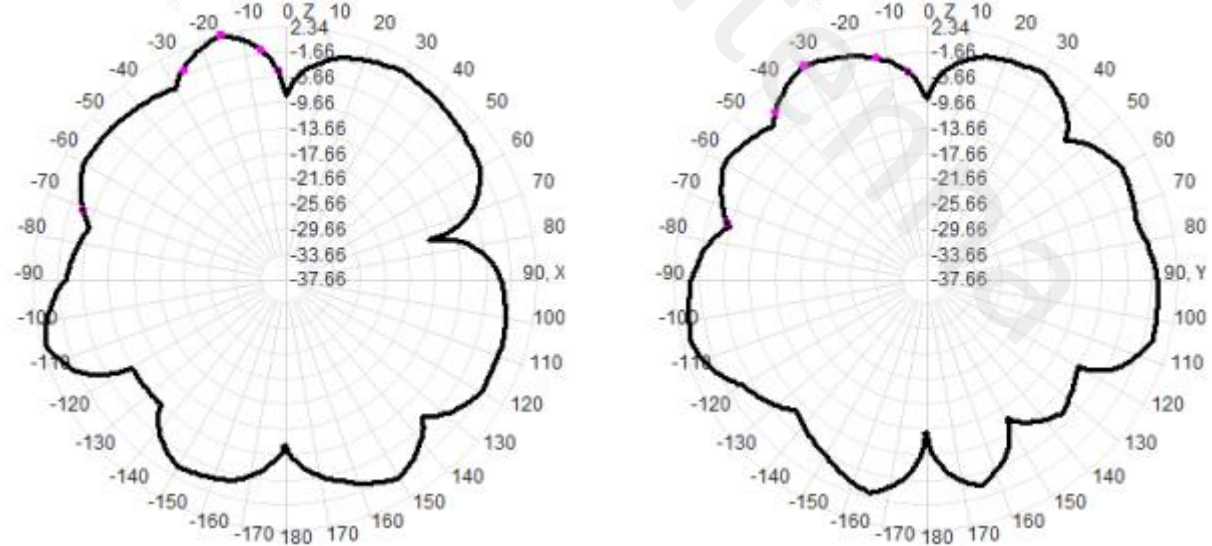
5150.0MHz H+V, Eff: 59.5%

Back View



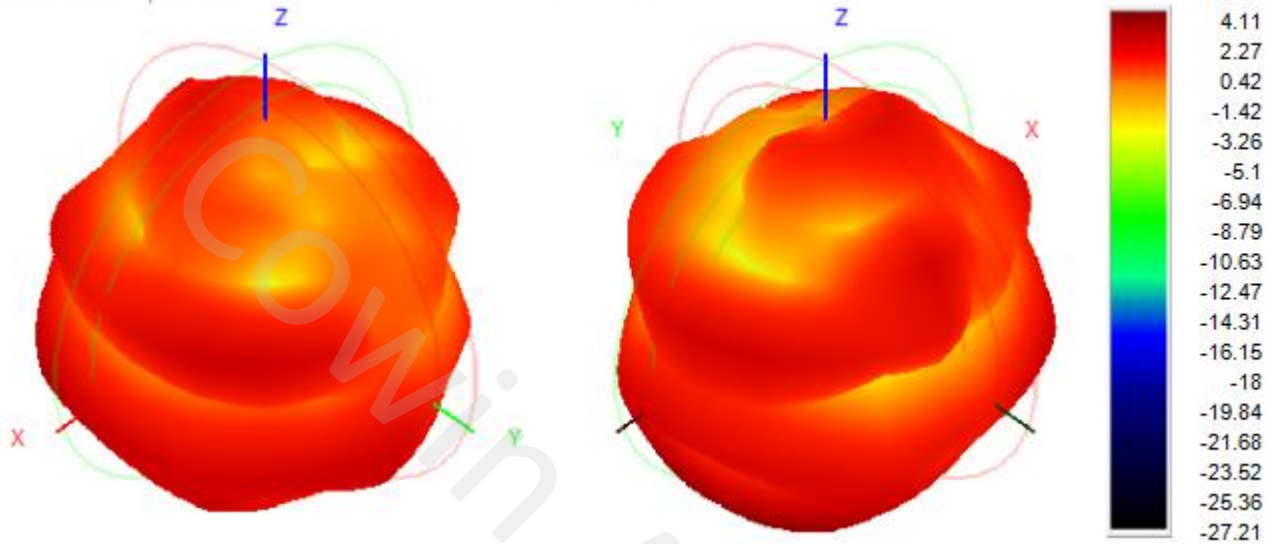
5150.0MHz Total(E1-XZ), Max= 2.34dBi

5150.0MHz Total(E2-YZ), Max= 1.31dBi



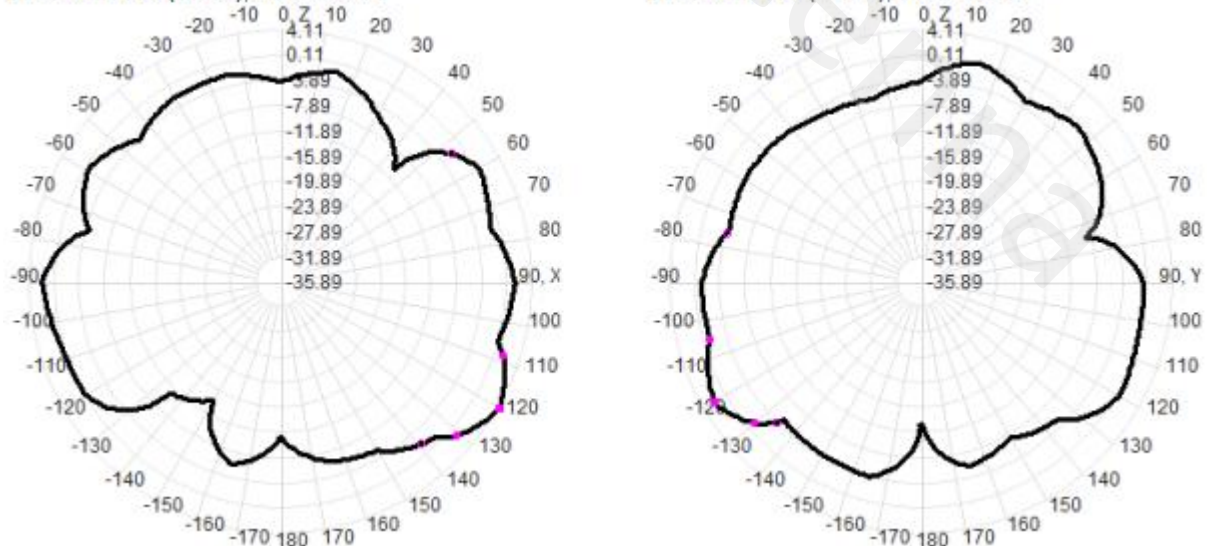
5500.0MHz H+V, Eff: 74.9%

Back View



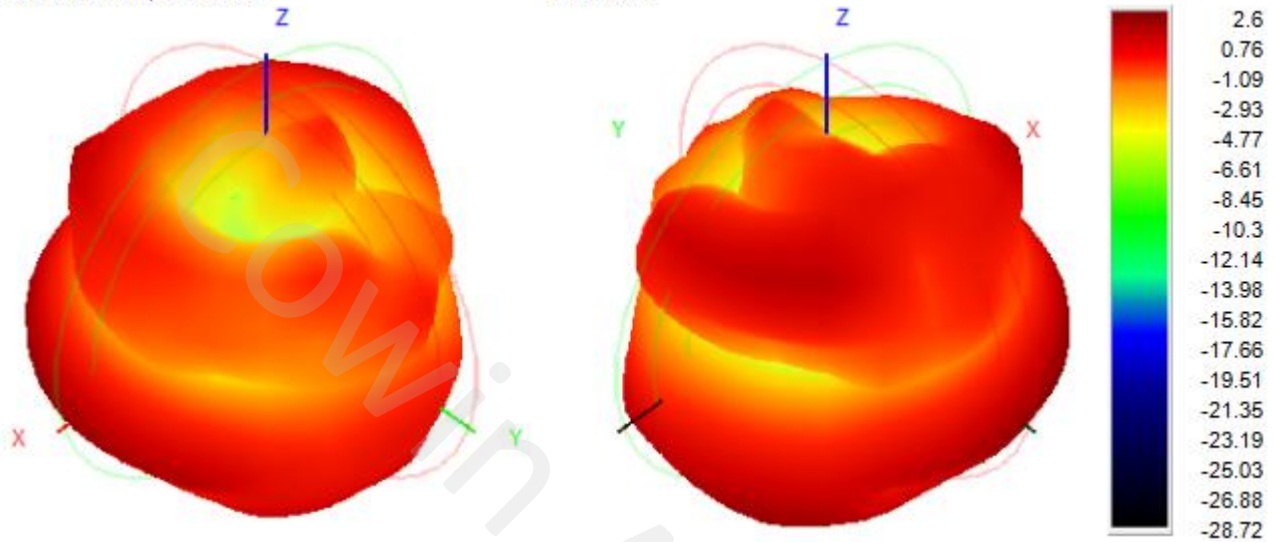
5500.0MHz Total(E1-XZ), Max= 4.11dBi

5500.0MHz Total(E2-YZ), Max= 2.04dBi



5850.0MHz H+V, Eff: 55.3%

Back View



5850.0MHz Total(E1-XZ), Max= 1.82dBi

5850.0MHz Total(E2-YZ), Max= 1.83dBi

