

CW-WZ-0172

2.4G/5.8G External Antenna

Key Features

Frequency:2400-2500MHZ/5150-5850MHZ

SMA Connector

Dimensions:297*13mm

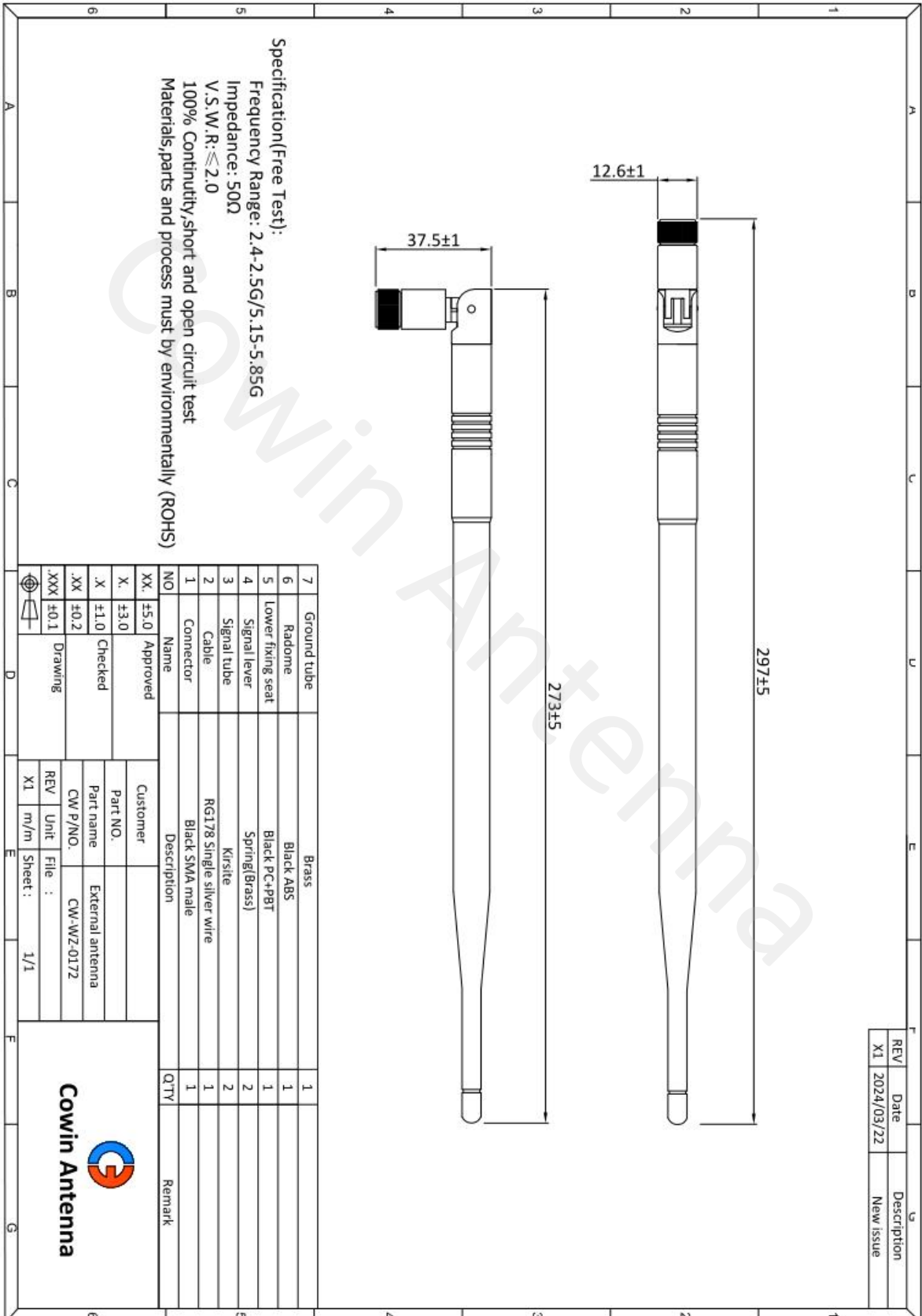


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2400-2500MHZ/5150-5850MHZ
VSWR	≤2.0
Efficiency (%)	95.47%/80.84%
Peak Gain (dBi)	7.29/5.83
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)	297*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

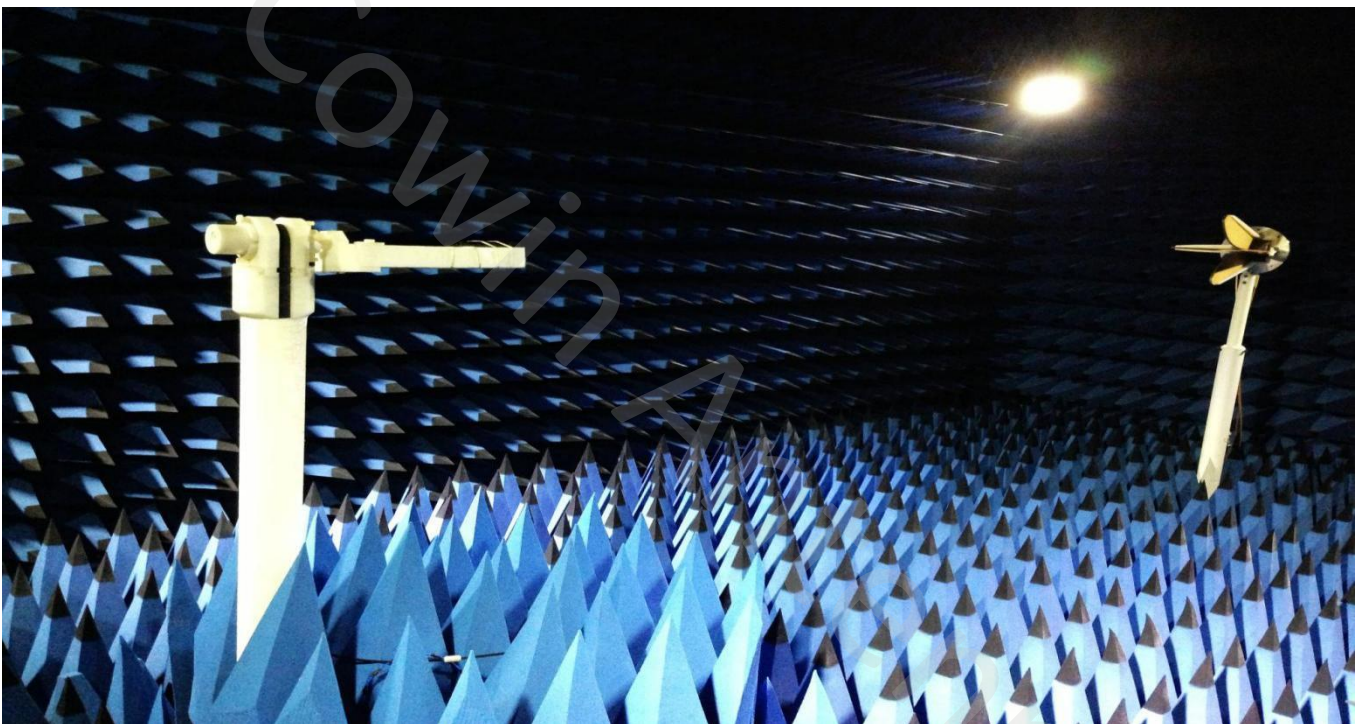
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

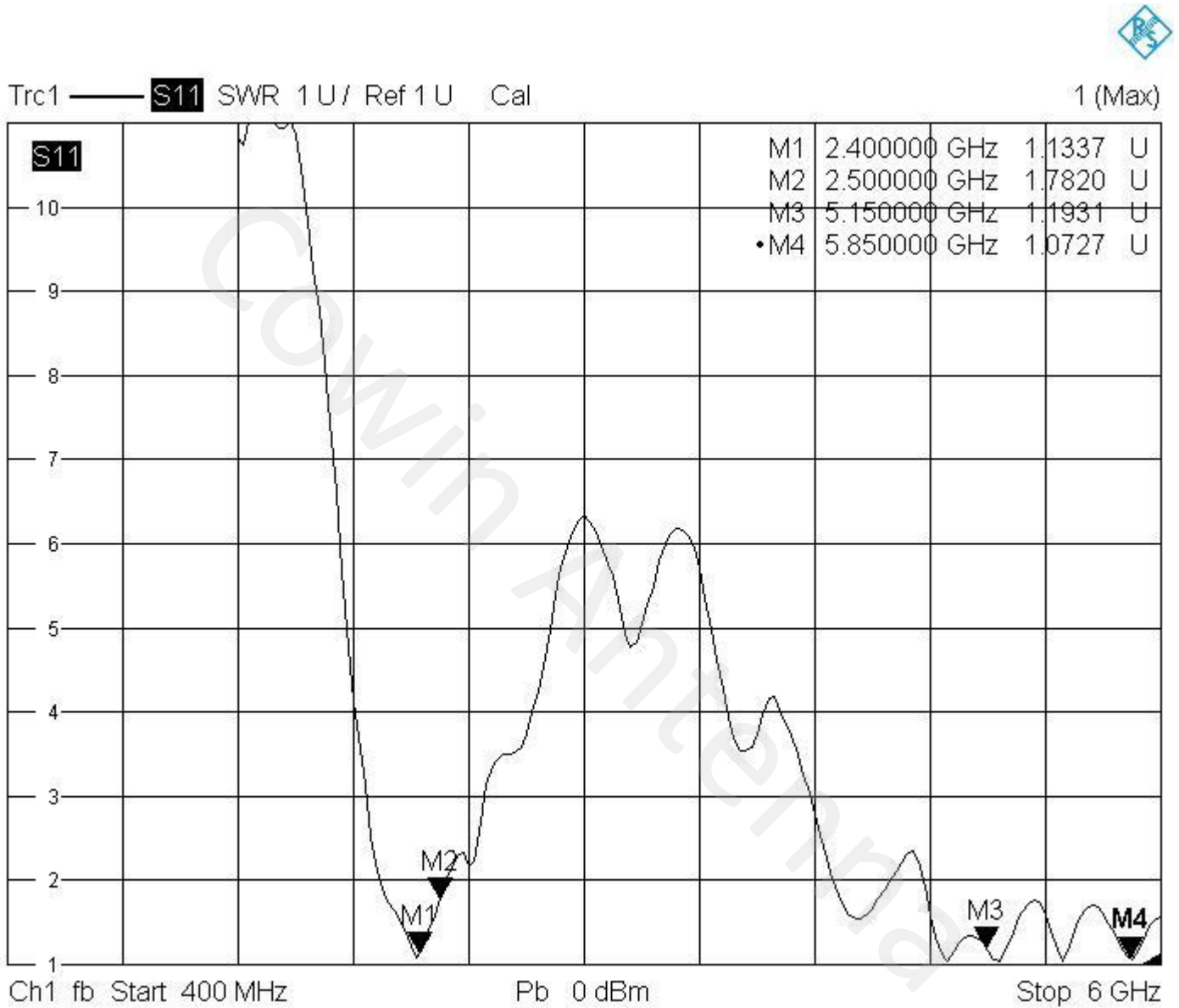
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

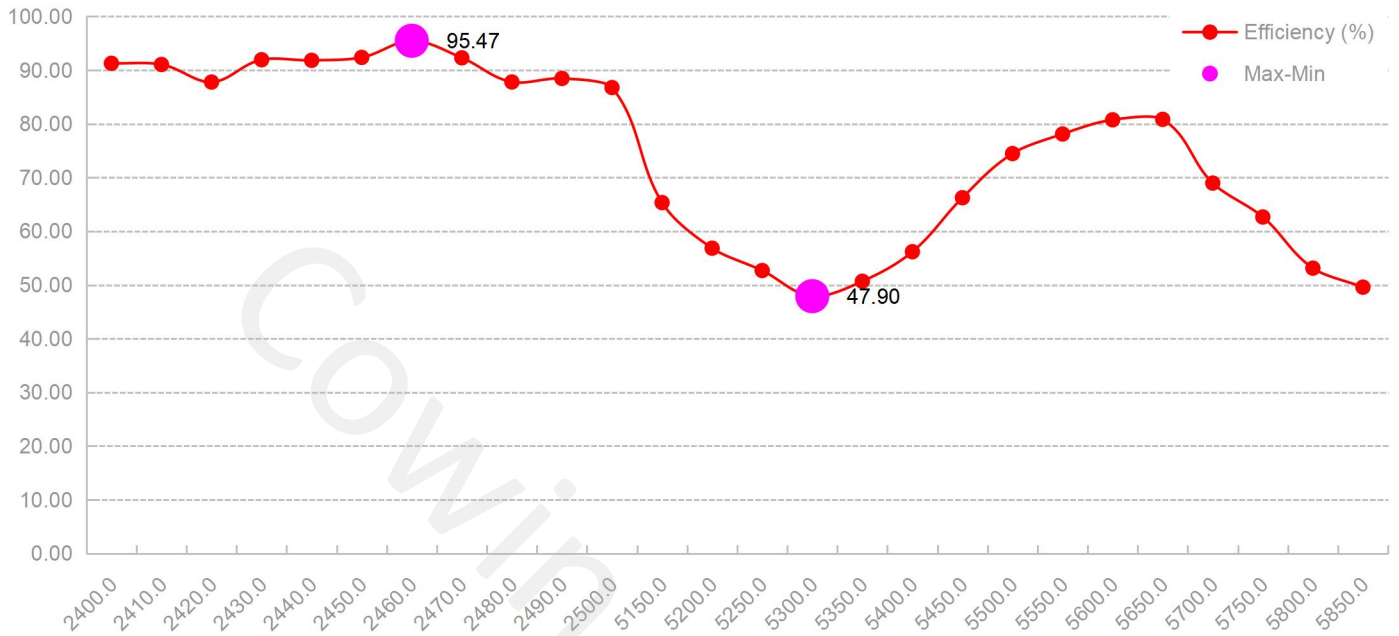
The comprehensive tester is Agilent cmv500



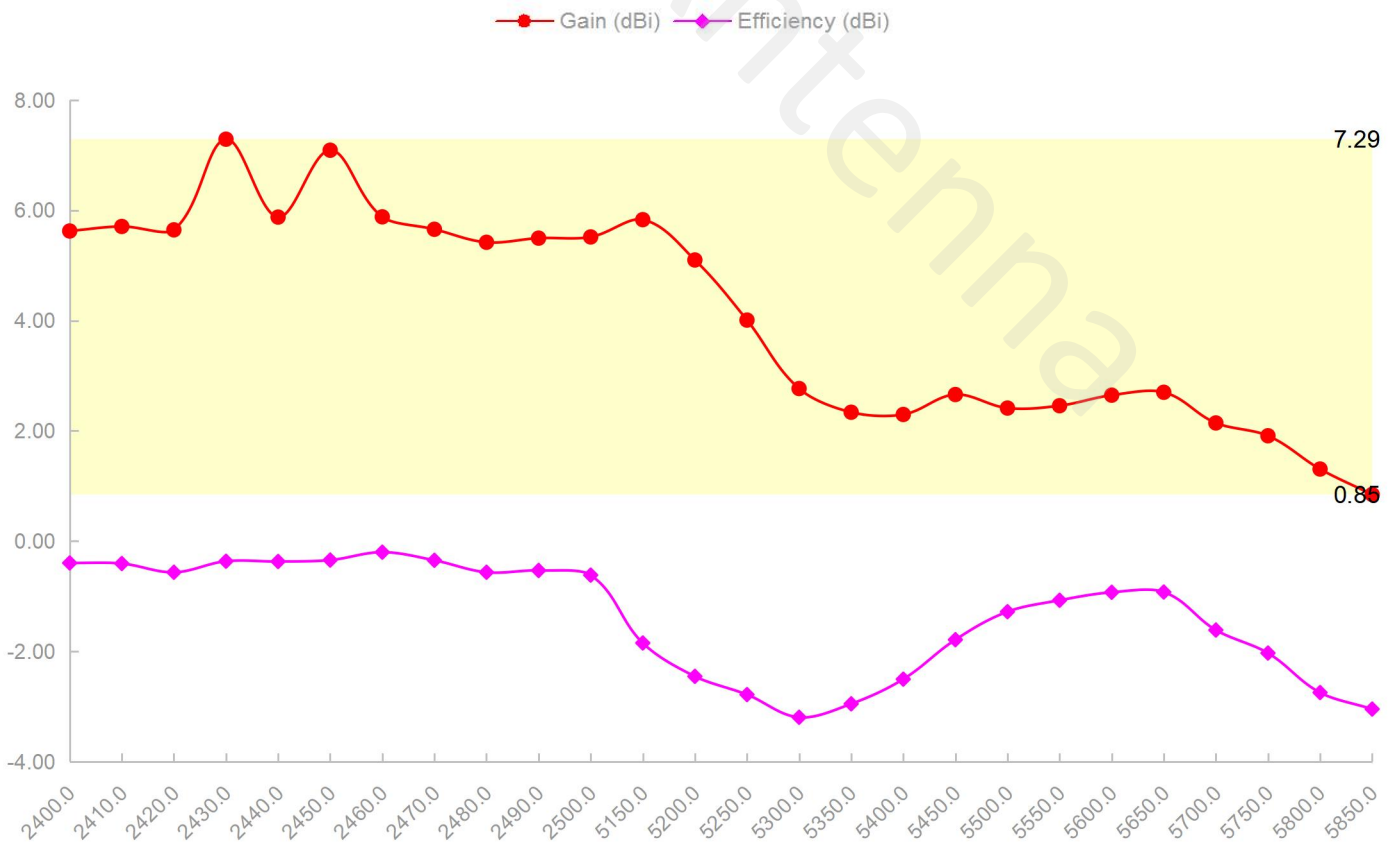
4.1 VSWR



4.2 Efficiency



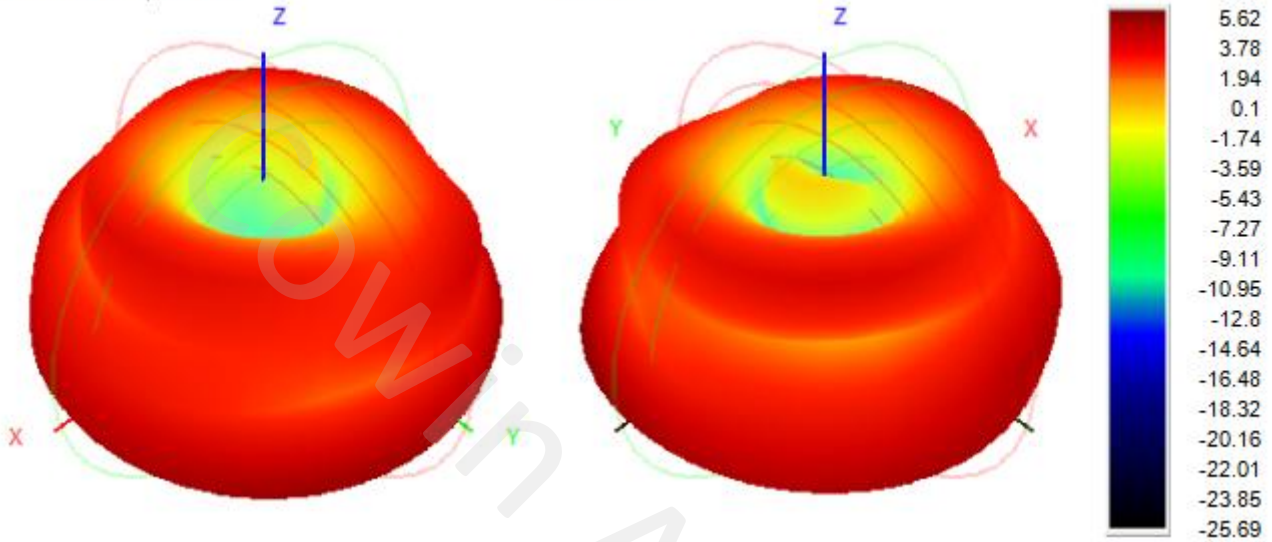
4.3 Peak gain



4.4 3D&2D Radiation Patterns

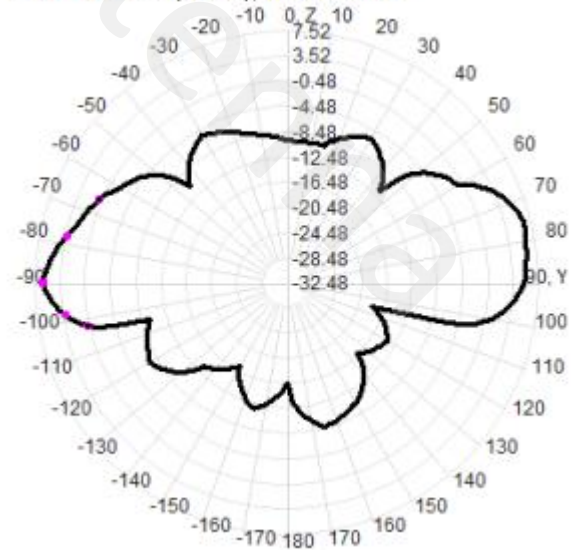
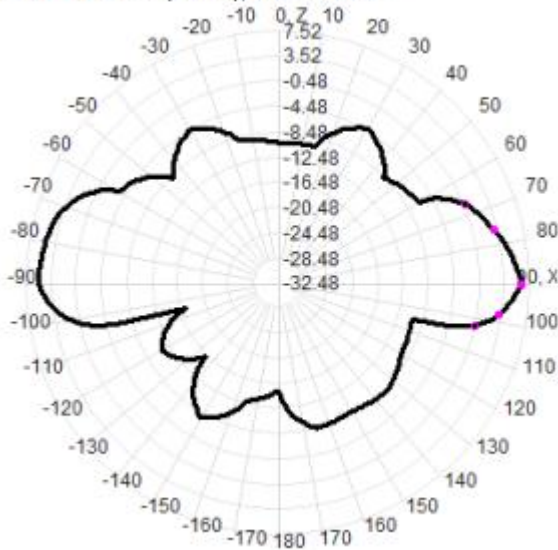
2400.0MHz H+V, Eff: 91.3%

Back View

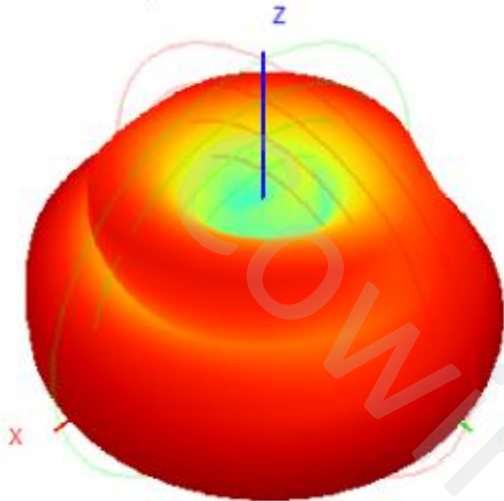


2400.0MHz Total(E1-XZ), Max= 6.03dBi

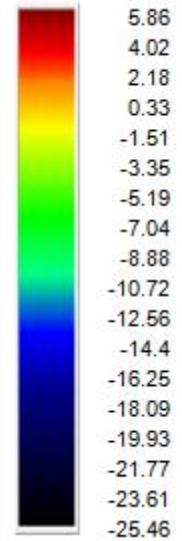
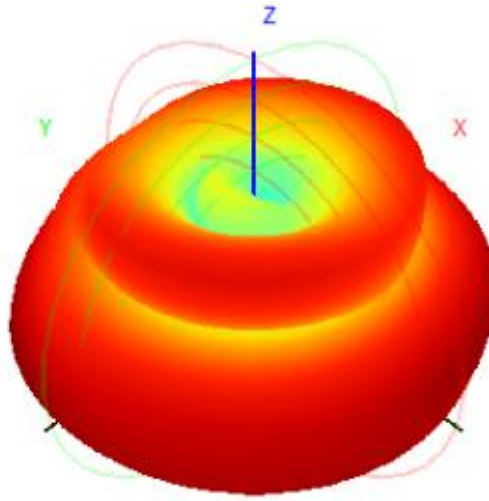
2400.0MHz Total(E2-YZ), Max= 6.29dBi



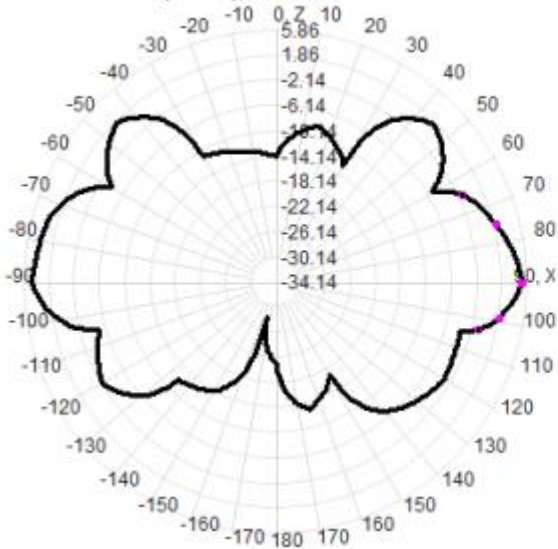
2450.0MHz H+V, Eff: 92.4%



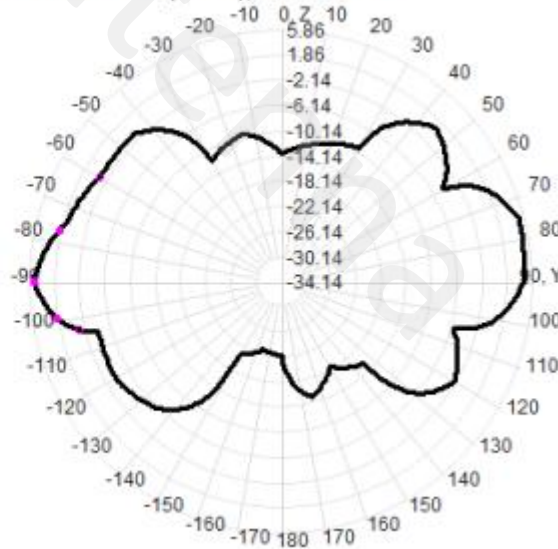
Back View



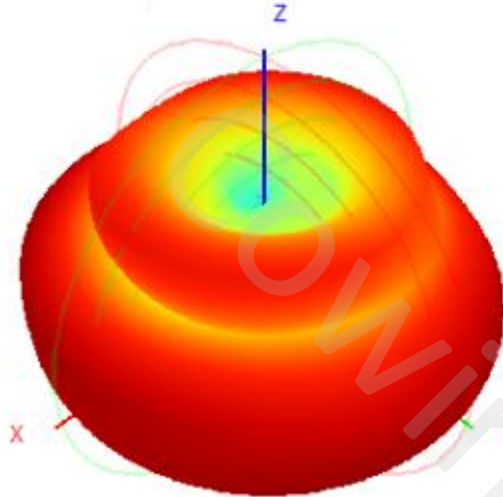
2450.0MHz Total(E1-XZ), Max= 4.90dBi



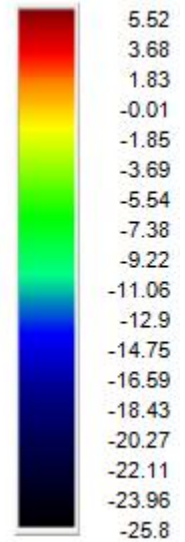
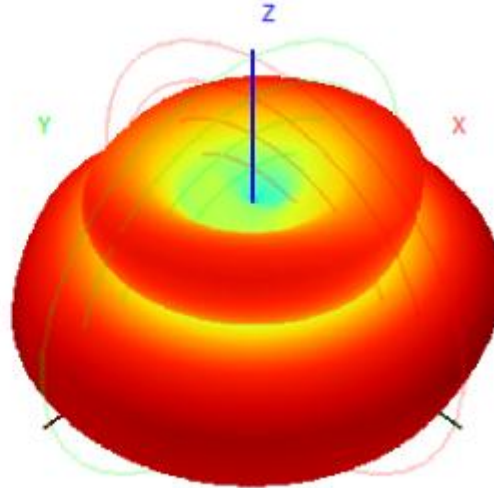
2450.0MHz Total(E2-YZ), Max= 5.10dBi



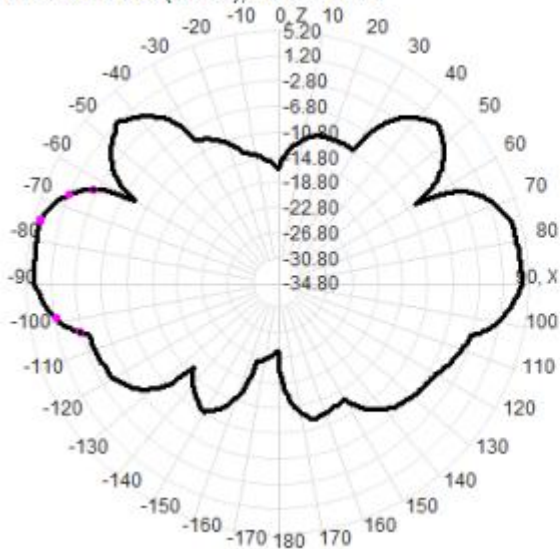
2500.0MHz H+V, Eff: 86.8%



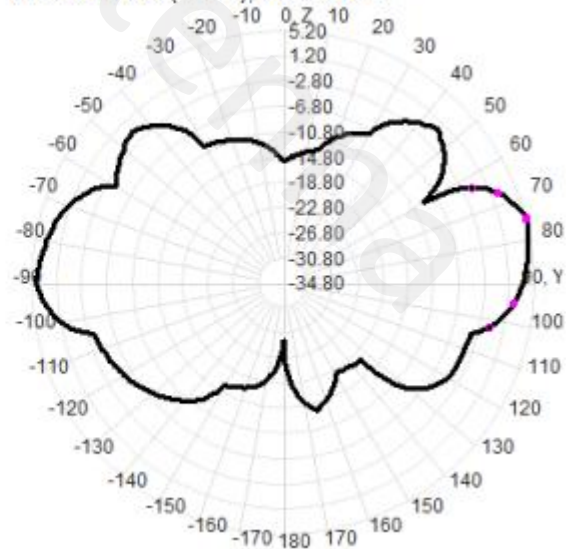
Back View



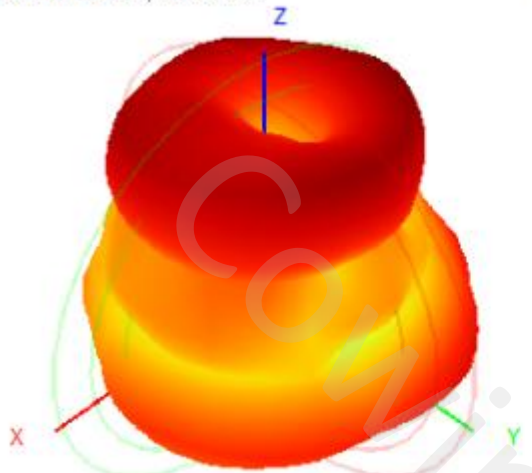
2500.0MHz Total(E1-XZ), Max= 4.22dBi



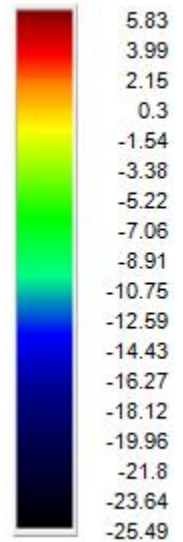
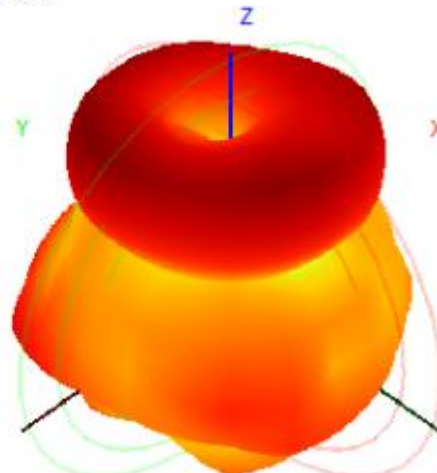
2500.0MHz Total(E2-YZ), Max= 5.09dBi



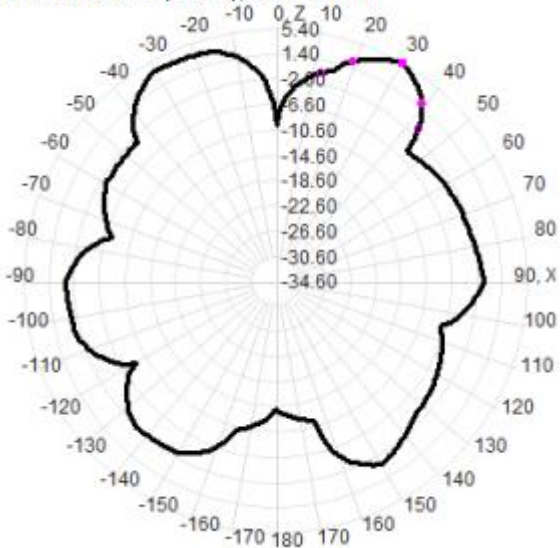
5150.0MHz H+V, Eff: 65.3%



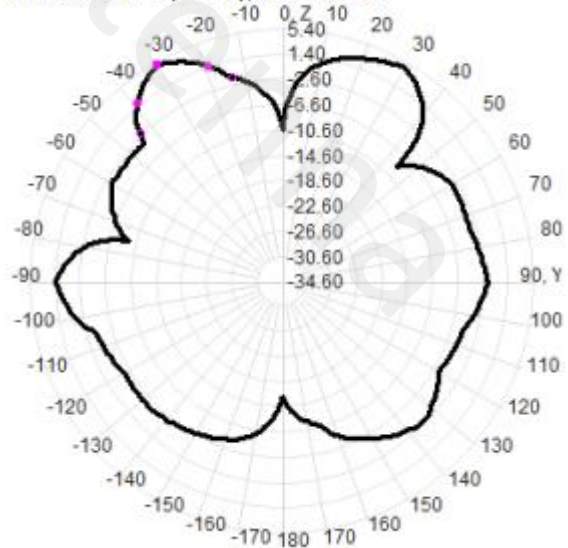
Back View



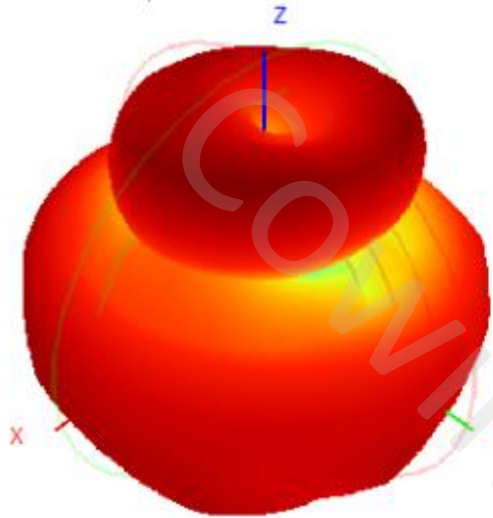
5150.0MHz Total(E1-XZ), Max= 5.40dBi



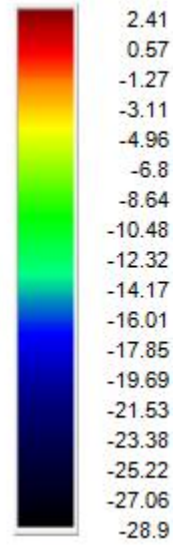
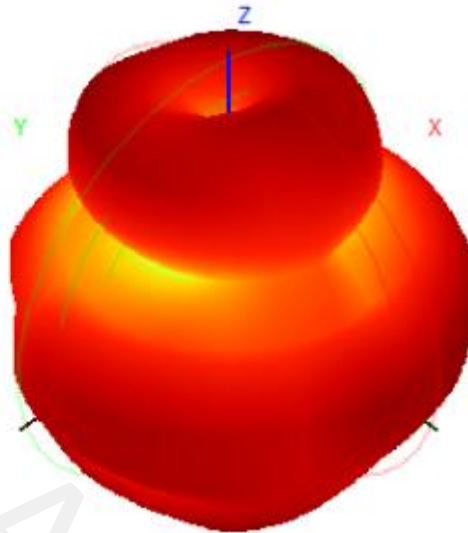
5150.0MHz Total(E2-YZ), Max= 5.00dBi



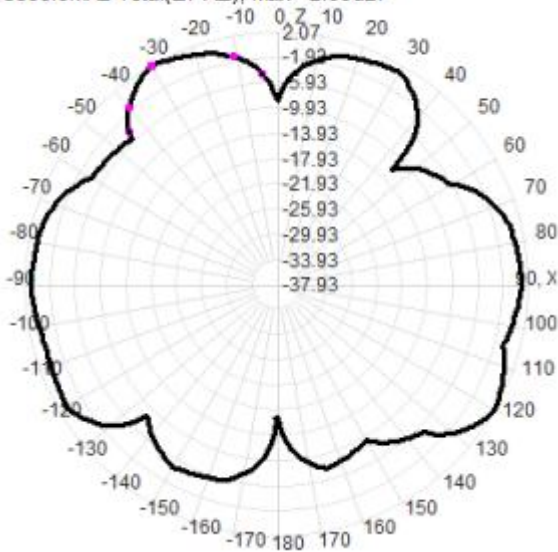
5500.0MHz H+V, Eff: 74.5%



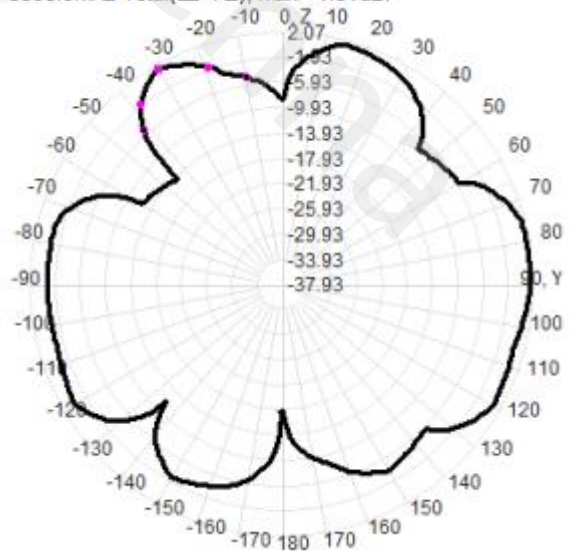
Back View



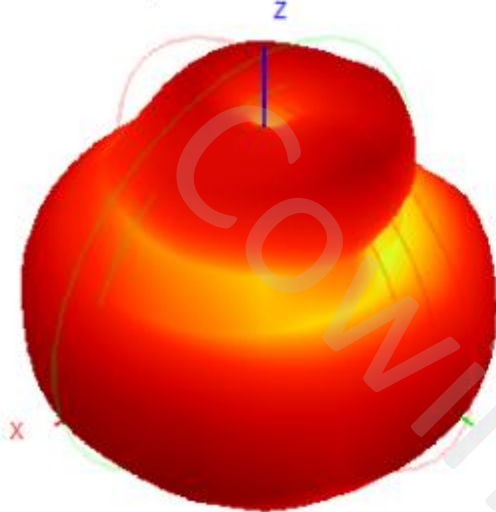
5500.0MHz Total(E1-XZ), Max= 2.00dBi



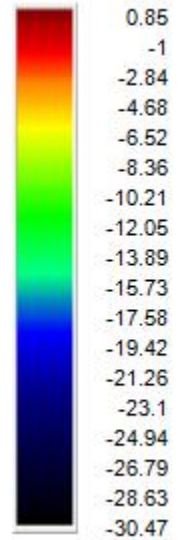
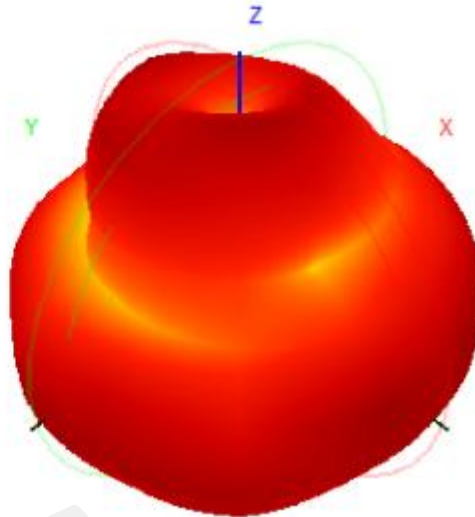
5500.0MHz Total(E2-YZ), Max= 1.51dBi



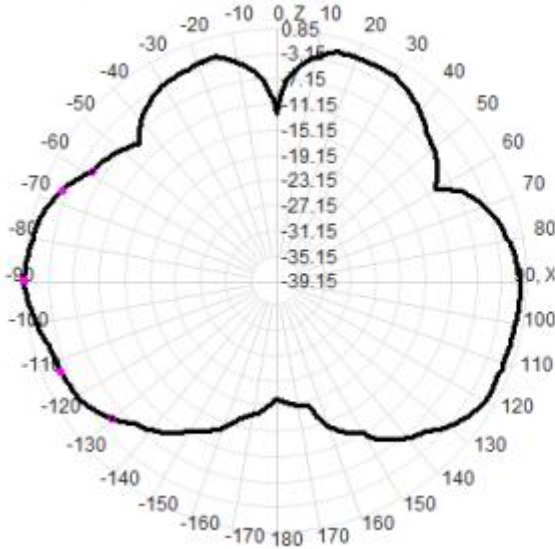
5850.0MHz H+V, Eff: 49.6%



Back View



5850.0MHz Total(E1-XZ), Max= 0.83dBi



5850.0MHz Total(E2-YZ), Max= 0.09dBi

