

## **CW-WZ-0050**

### **5.15G-7.5G External Antenna**

#### **Key Features**

Frequency: 5.15G-7.5G

SMA Male Connector

External Rubber

Dimensions 195\*13mm

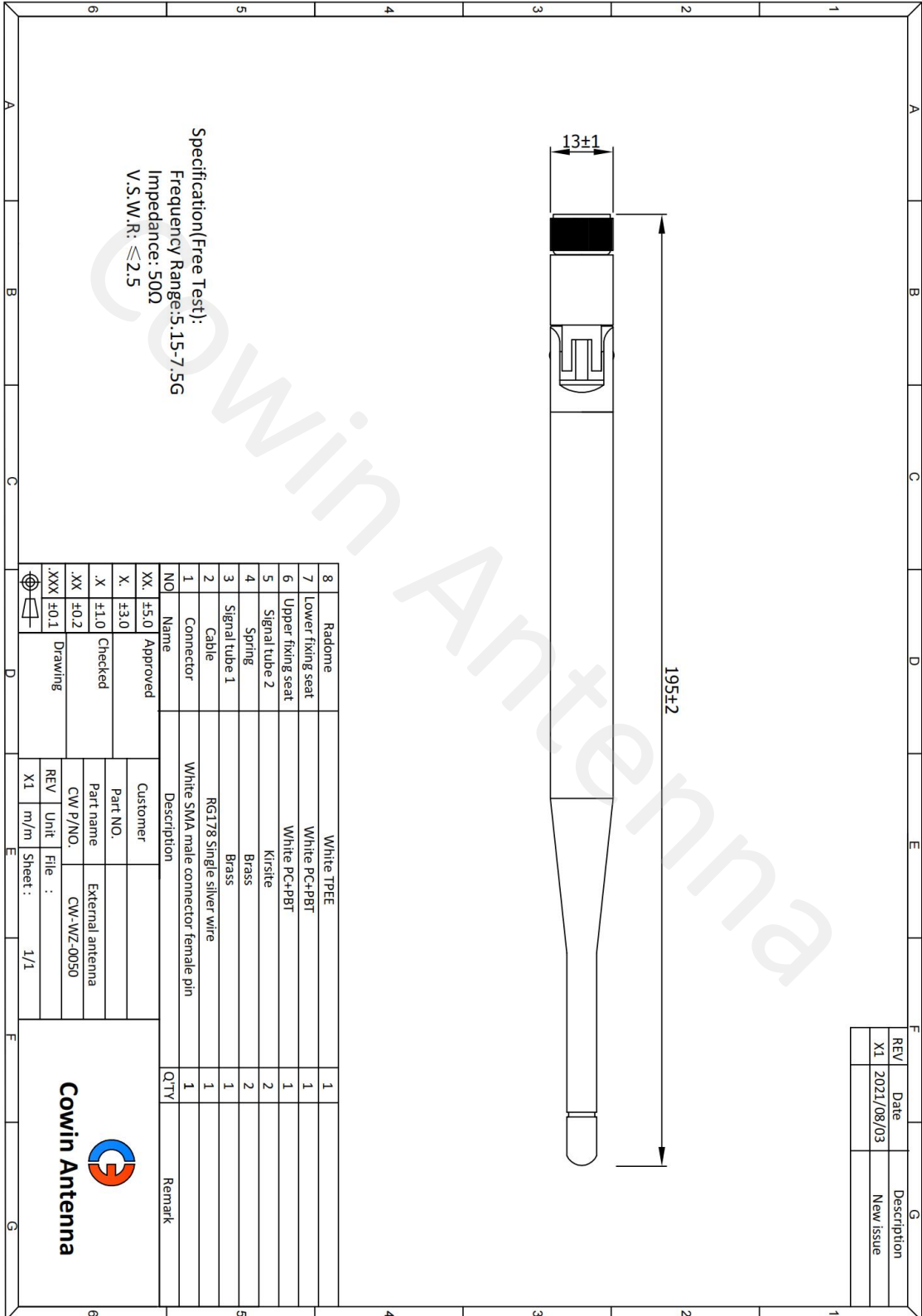


## 1. Antenna Electrical Characteristics

Frequency (MHz)	5.15G-7.5G
VSWR	2.5:1
Efficiency (%)	69.03%
Peak Gain (dBi)	5.76
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA male

## 2. Material and environmental characteristics

Material of PCB	N/A
Material of Plastic	TPEE/PC+PBT
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	195*13
Antenna color	White
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



## 4. Antenna test parameters

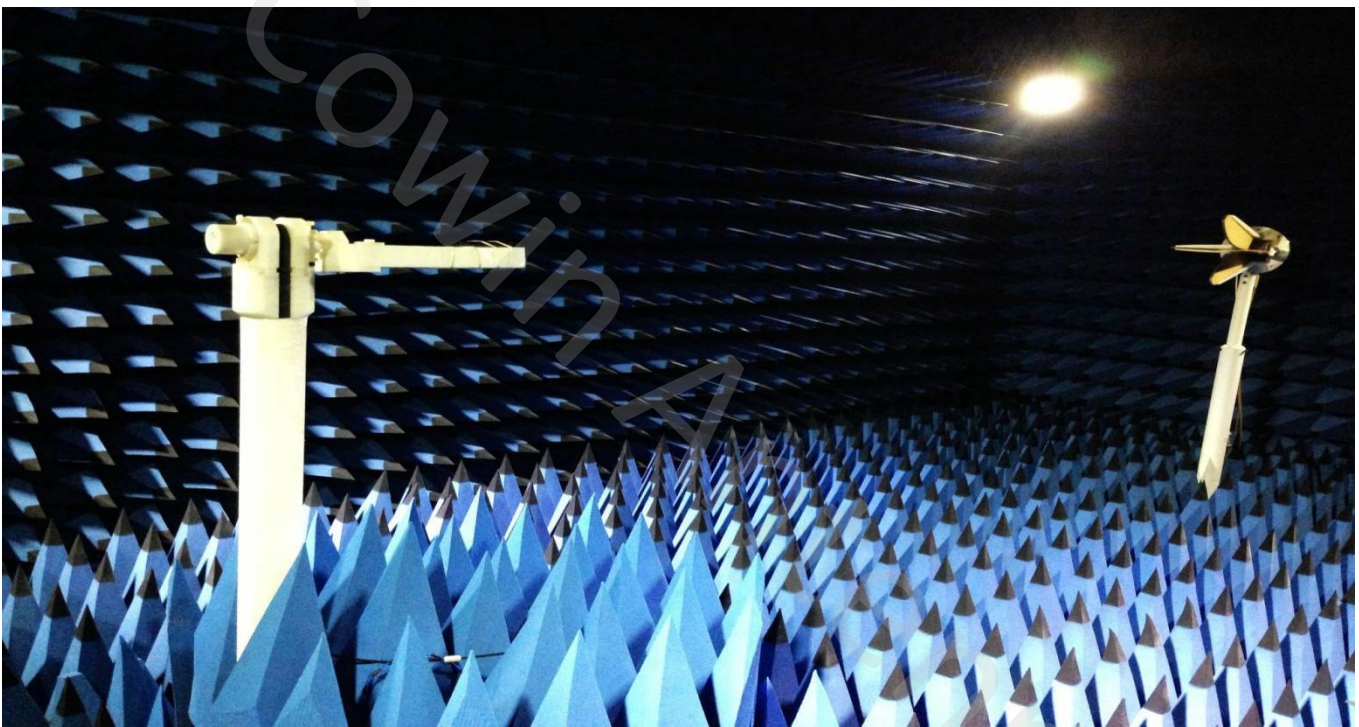
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

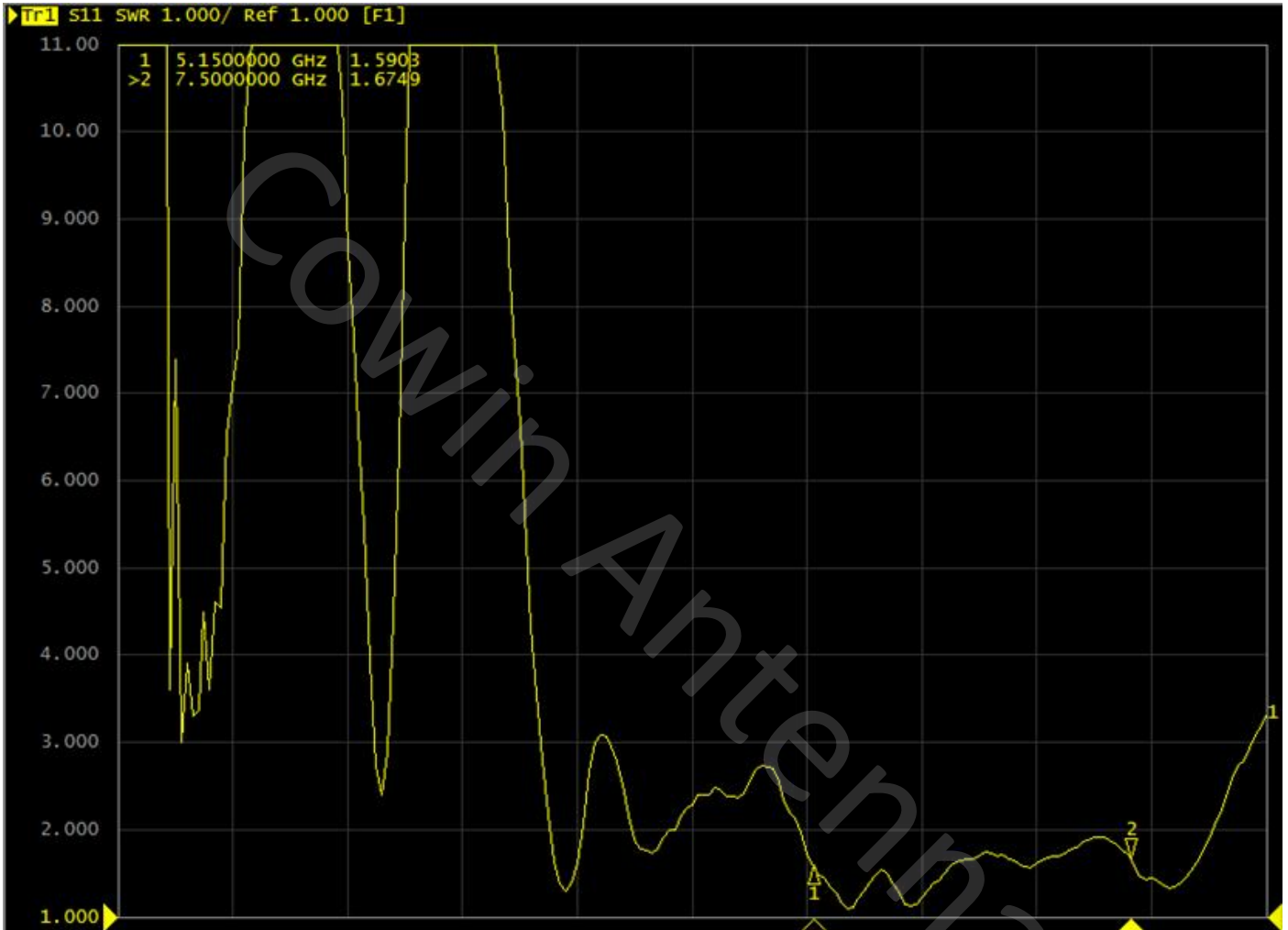
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

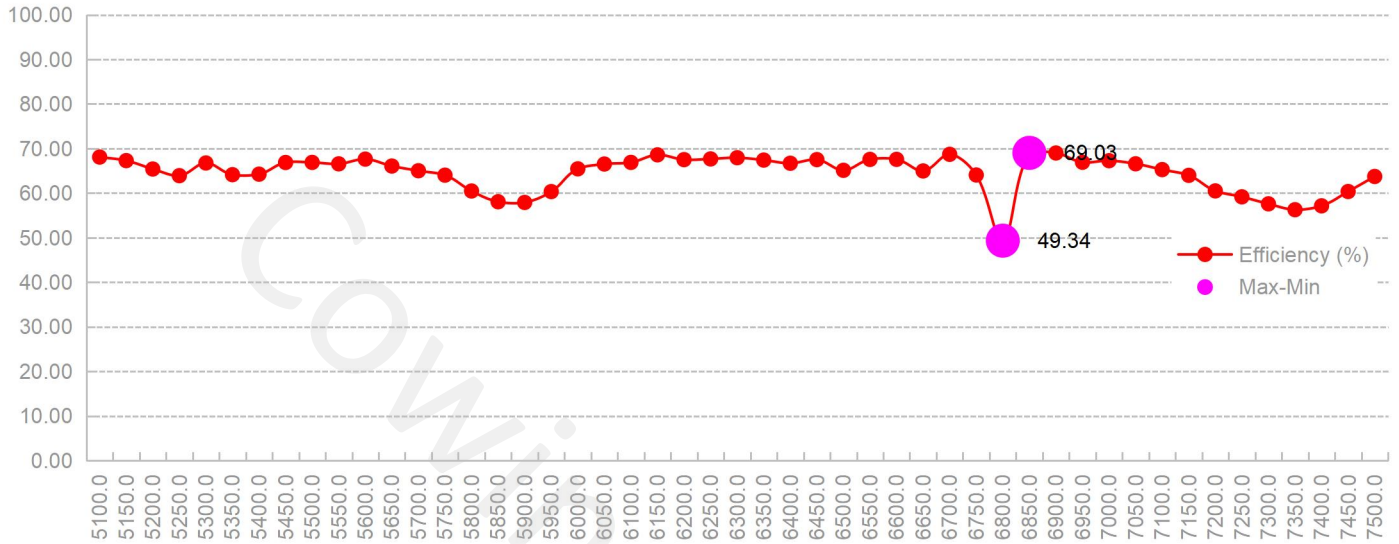
The comprehensive tester is Agilent cmv500



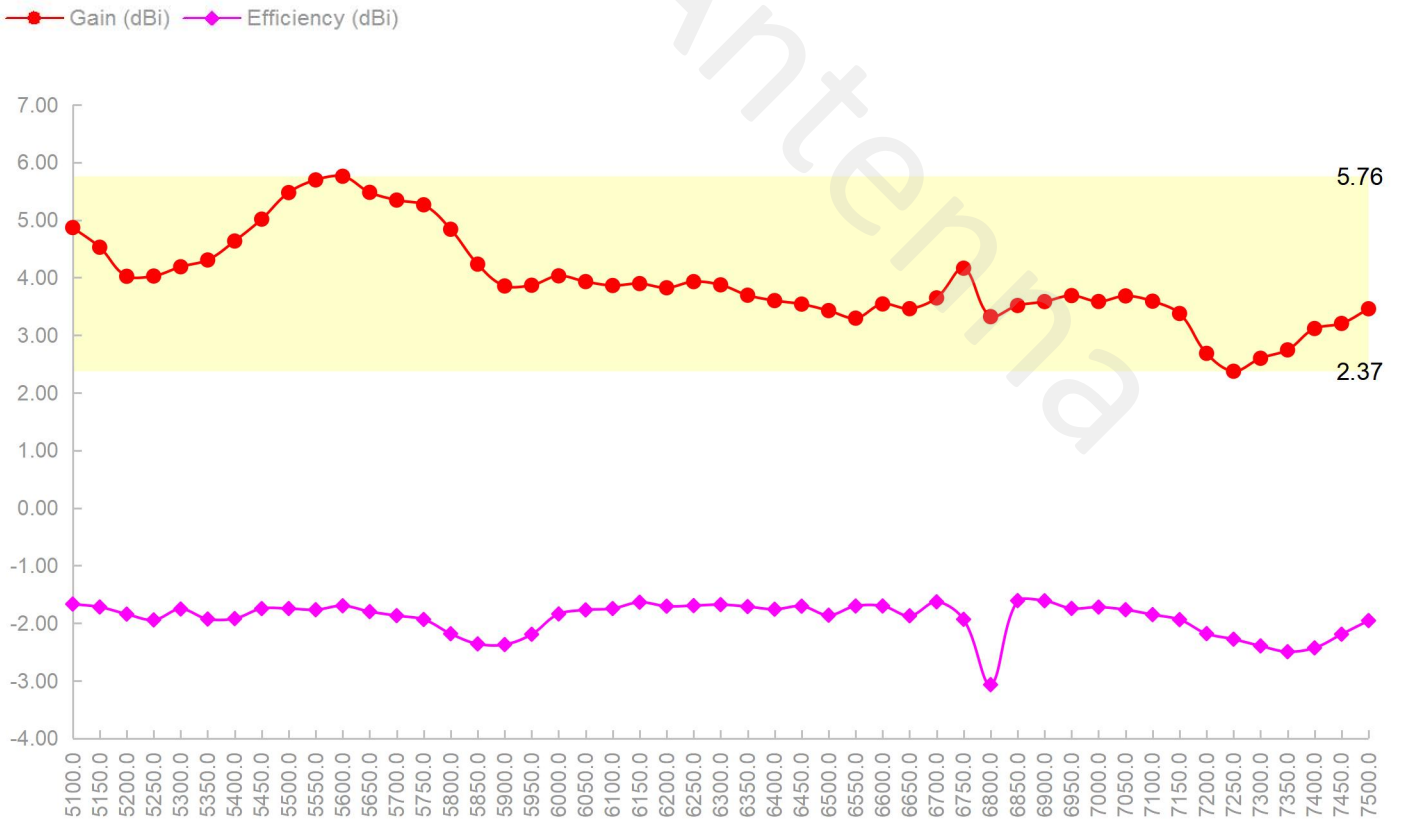
## 4.1 VSWR



## 4.2 Efficiency

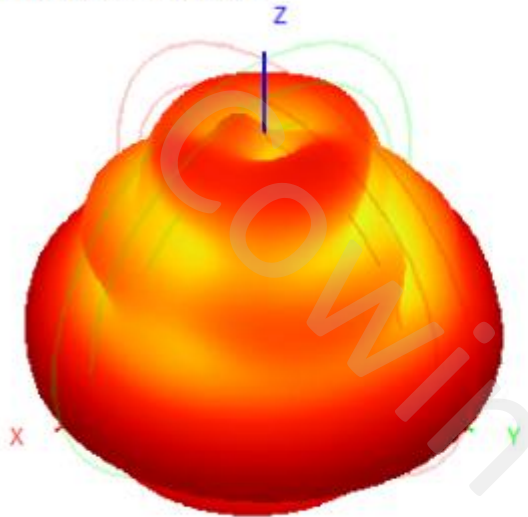


## 4.3 Peak gain

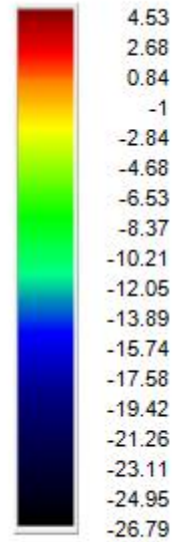
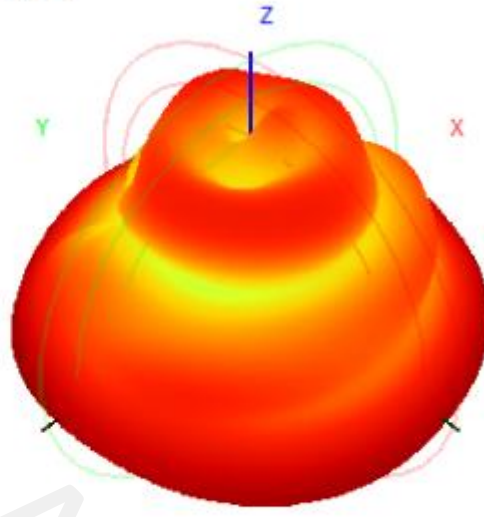


## 4.4 3D&2D Radiation Patterns

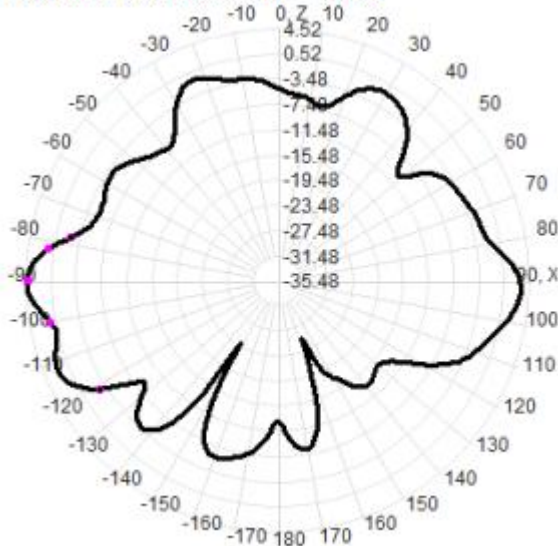
5150.0MHz H+V, Eff: 67.3%



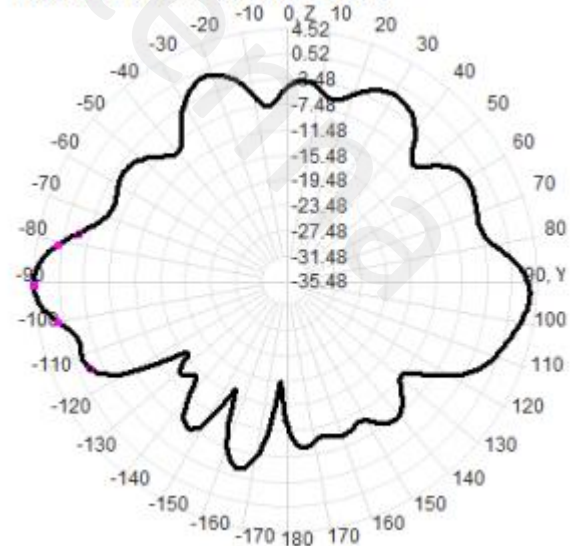
Back View



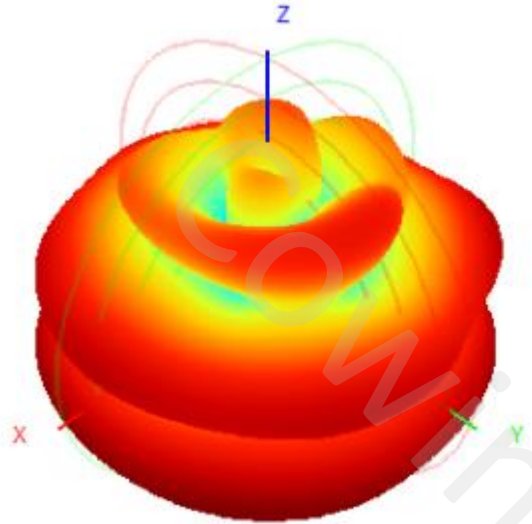
5150.0MHz Total(E1-XZ), Max= 4.31 dBi



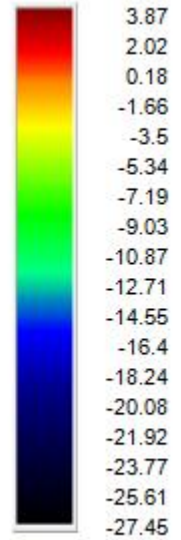
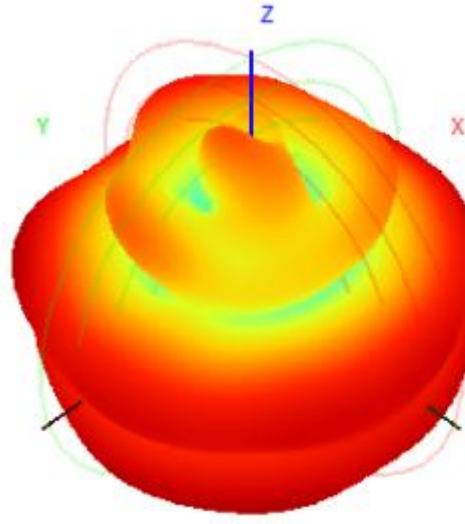
5150.0MHz Total(E2-YZ), Max= 4.52 dBi



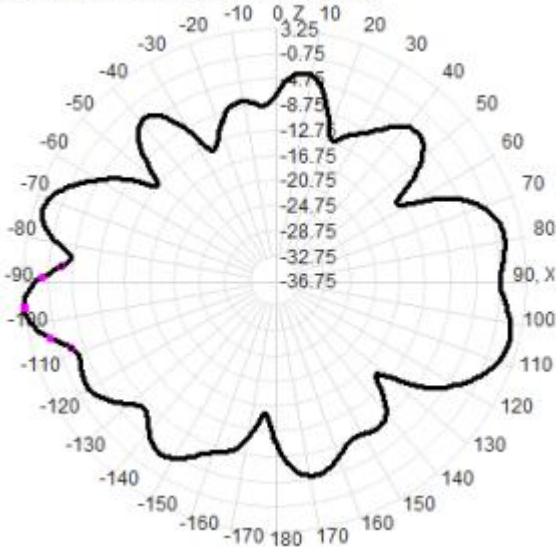
5950.0MHz H+V, Eff: 60.3%



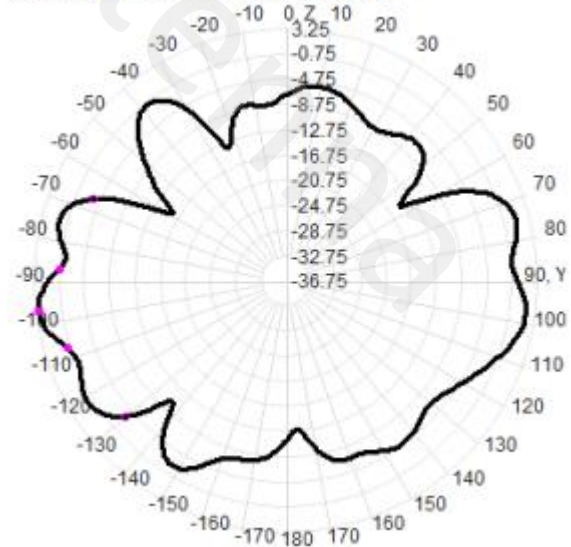
Back View



5950.0MHz Total(E1-XZ), Max= 3.25dBi

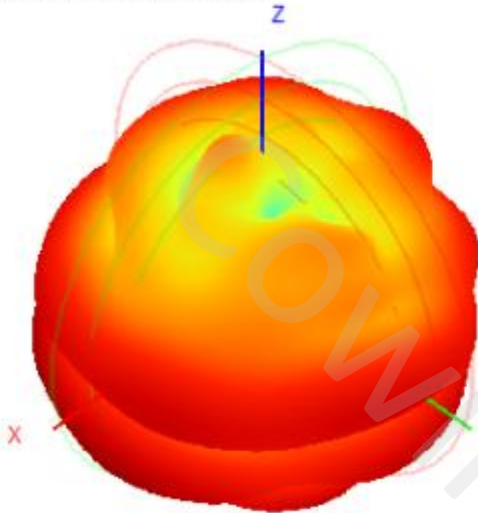


5950.0MHz Total(E2-YZ), Max= 2.73dBi

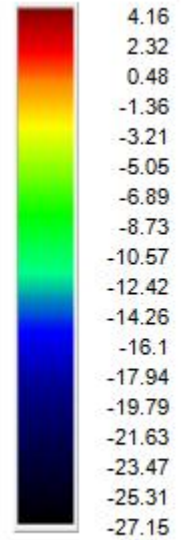
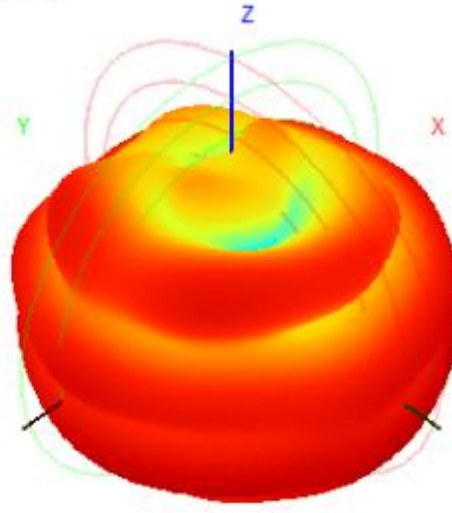




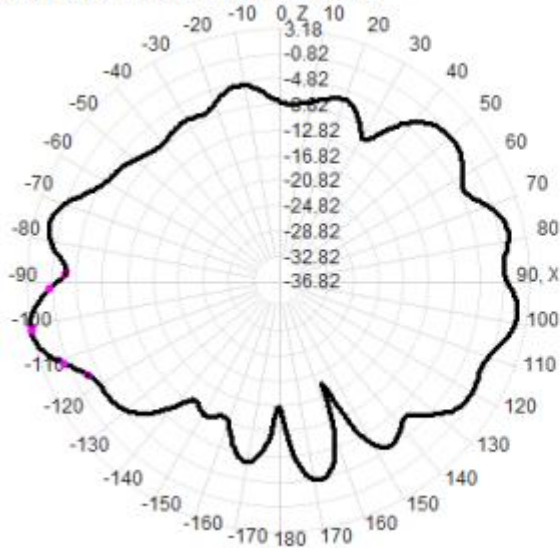
6750.0MHz H+V, Eff: 64.1%



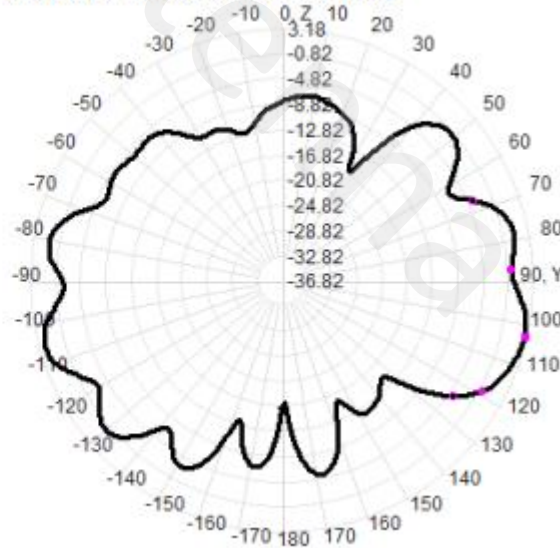
Back View



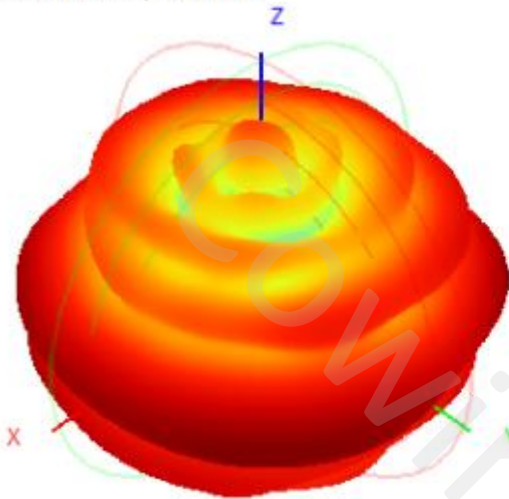
6750.0MHz Total(E1-XZ), Max= 3.18dBi



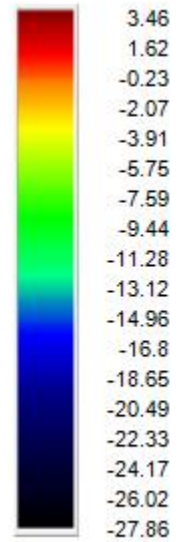
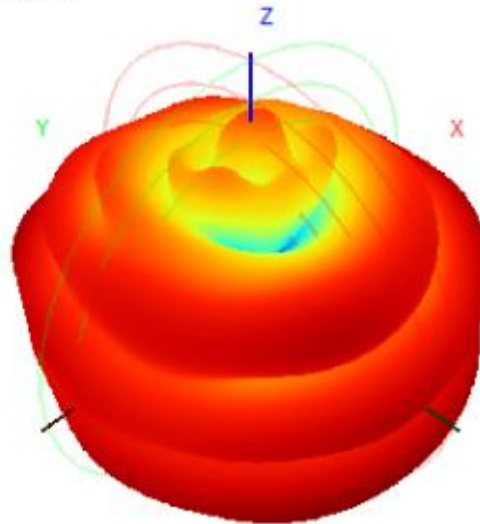
6750.0MHz Total(E2-YZ), Max= 2.49dBi



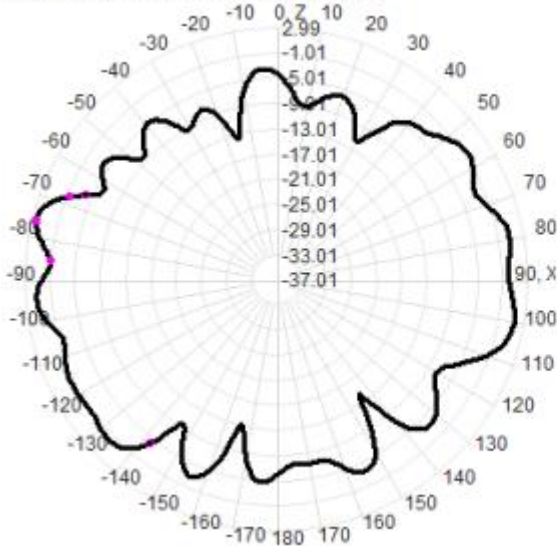
7500.0MHz H+V, Eff: 63.7%



Back View



7500.0MHz Total(E1-XZ), Max= 2.22dBi



7500.0MHz Total(E2-YZ), Max= 2.99dBi

