

CW-WZ-0216-1

3060-3500MHz FPV Antenna

Key Features

Frequency: 3060-3500MHz

Connector Type: SMA Male Connector

Cable Type: RG141

Dimensions: 42.9*22*1 mm



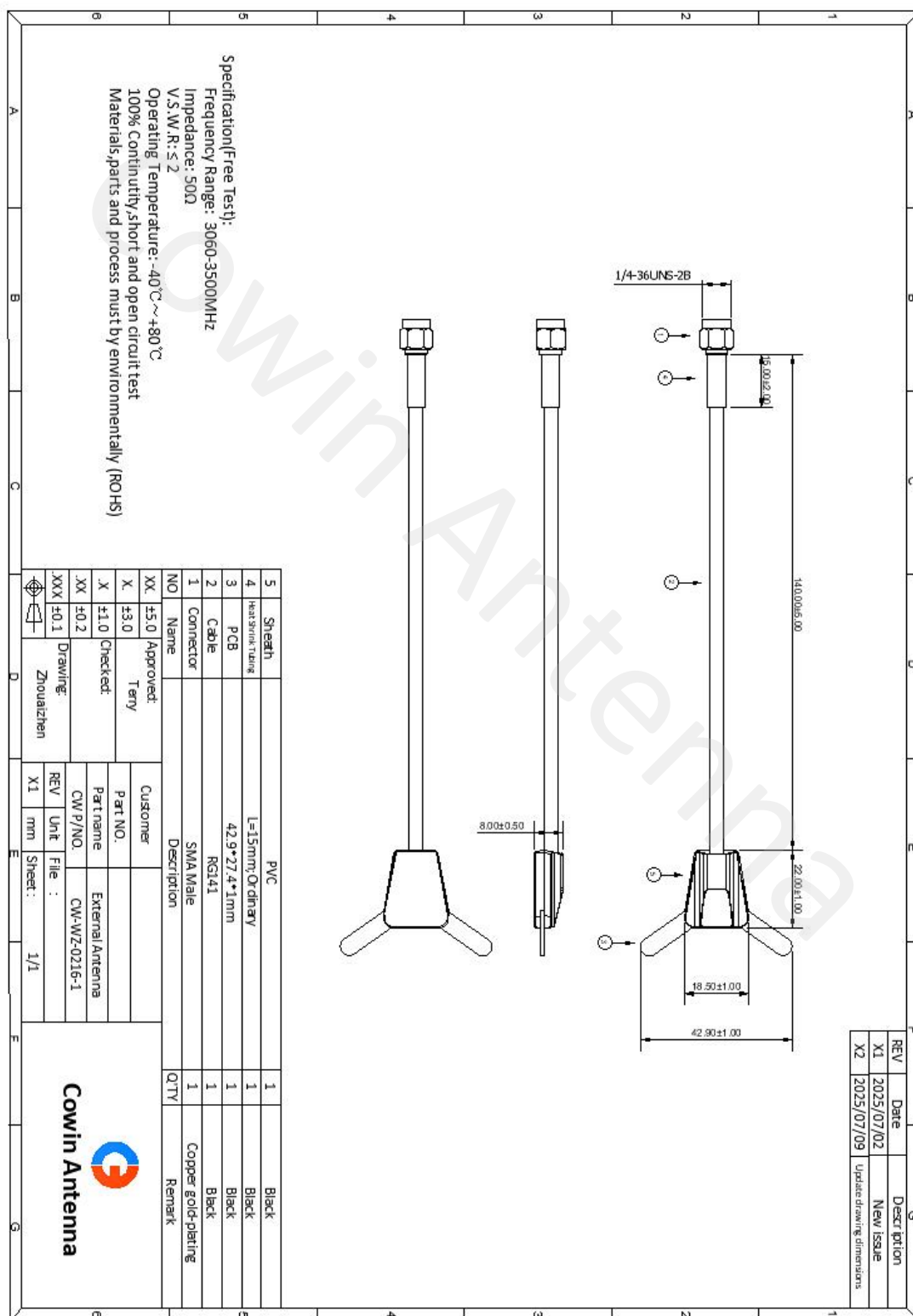
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	3060-3500
VSWR	≤ 2
Efficiency (%)	70.82
Peak Gain (dBi)	4.34
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	PVC
Inner Structure	PCB
Cable Type	RG141 / L=140mm
Connector Type	SMA
Dimensions (mm)	42.9*22*1
Antenna Color	Black
Operation Temperature	-40°C to +80°C
Storage Temperature	-40°C to +80°C
Antenna Storage life(year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

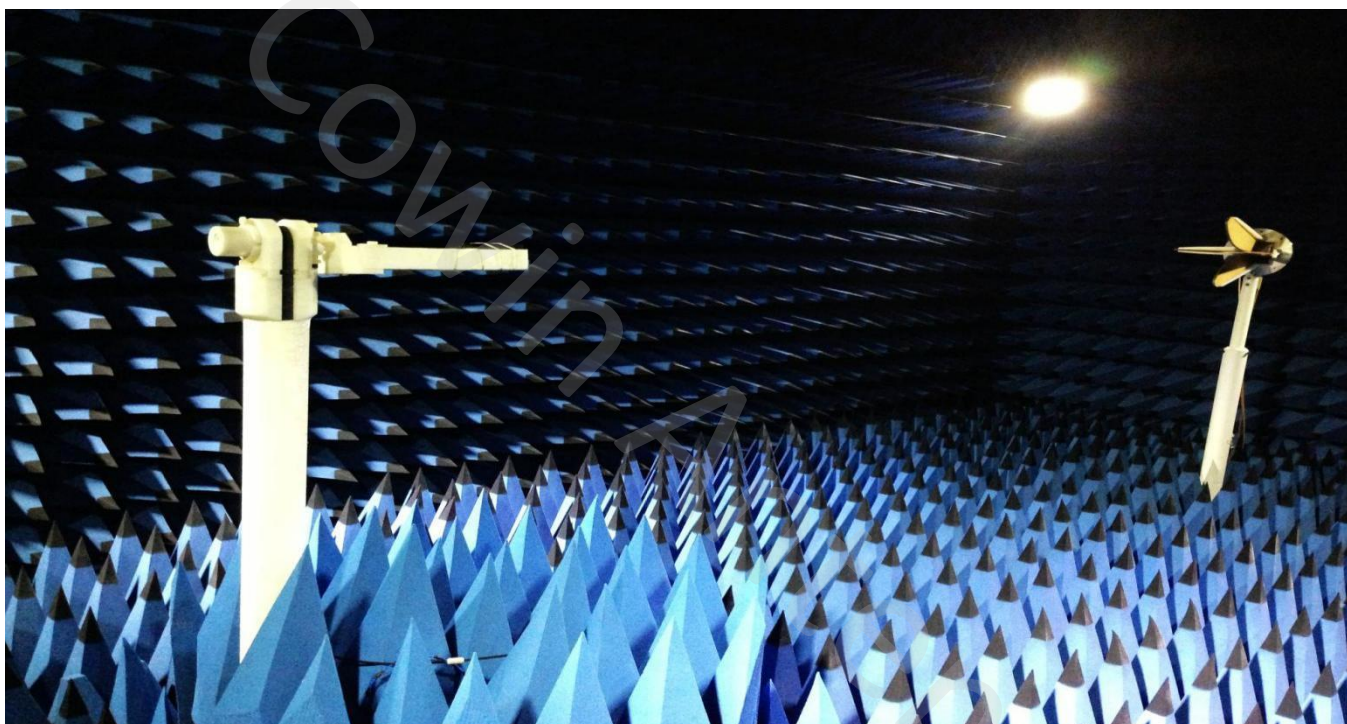
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

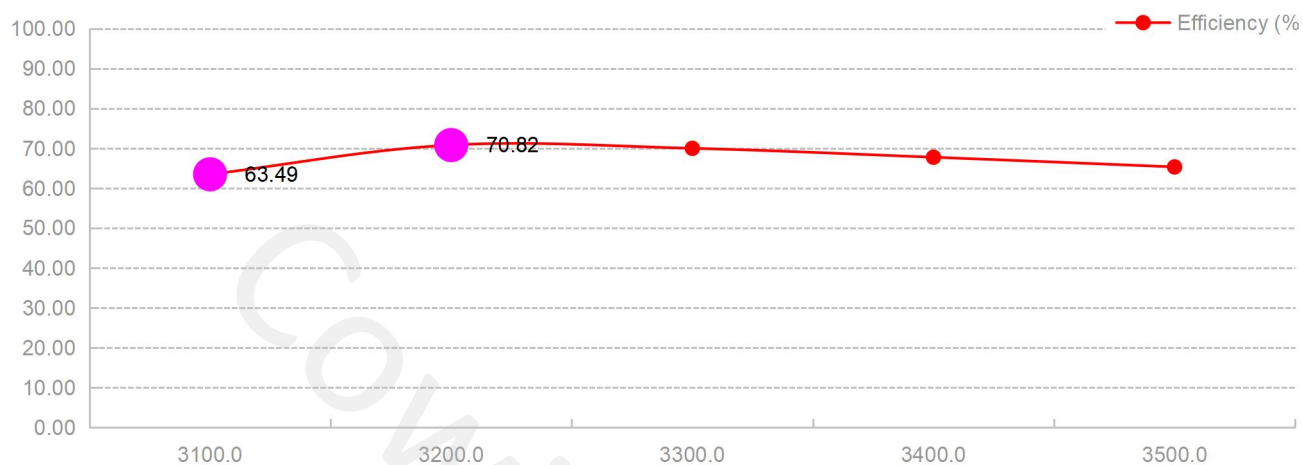
The comprehensive tester is Agilent cmv500



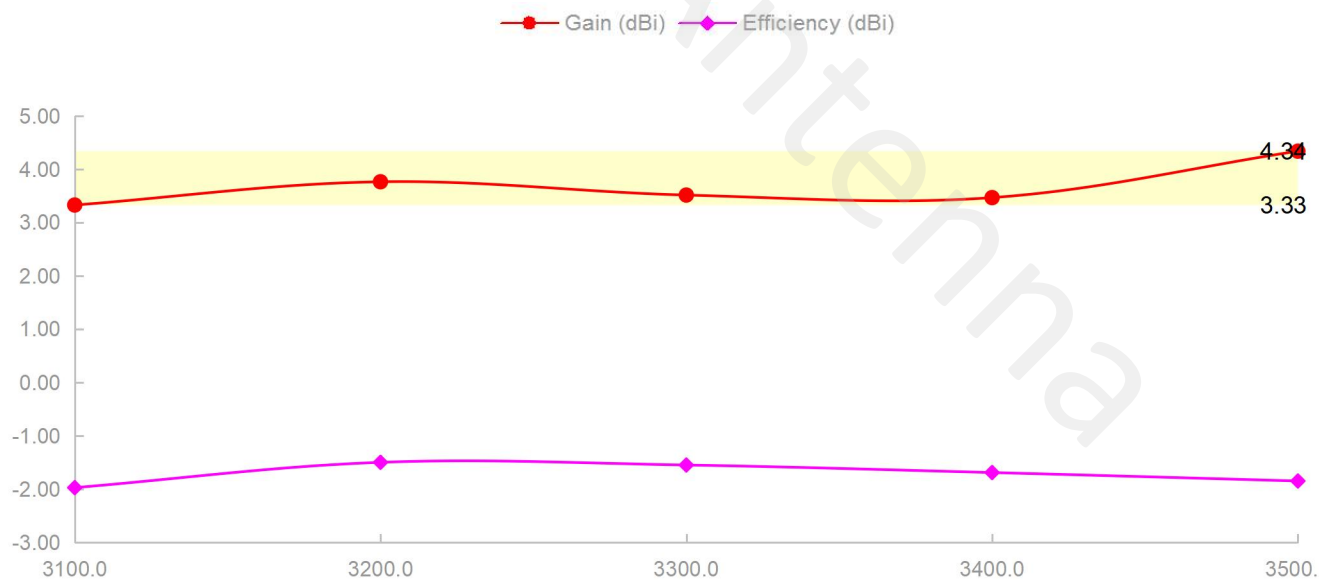
4.1 VSWR



4.2 Efficiency



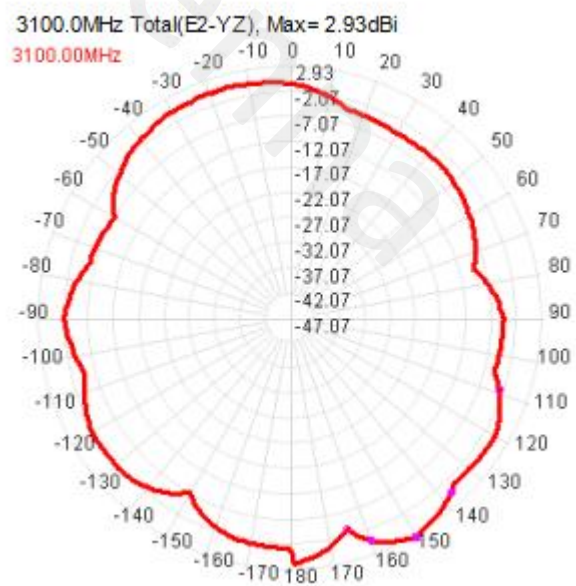
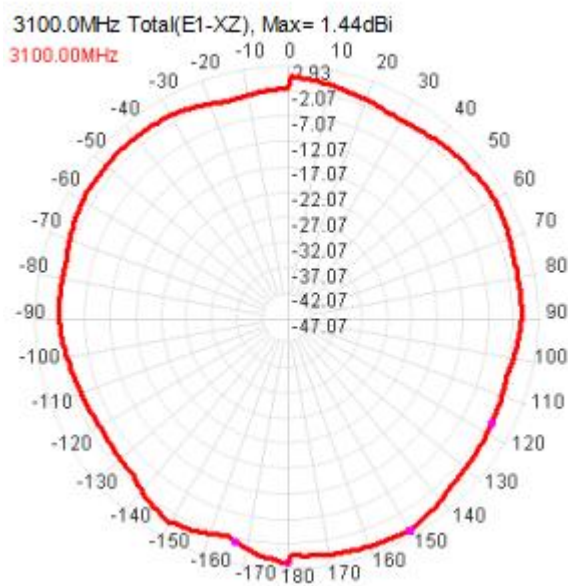
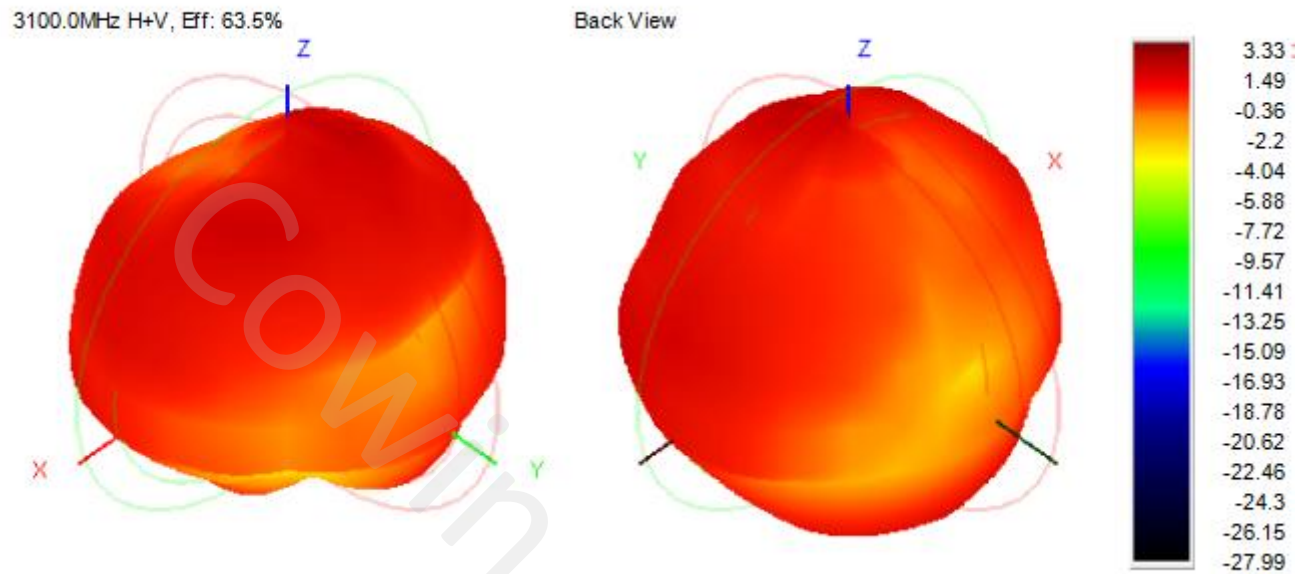
4.3 Peak gain



4.4 Data summary

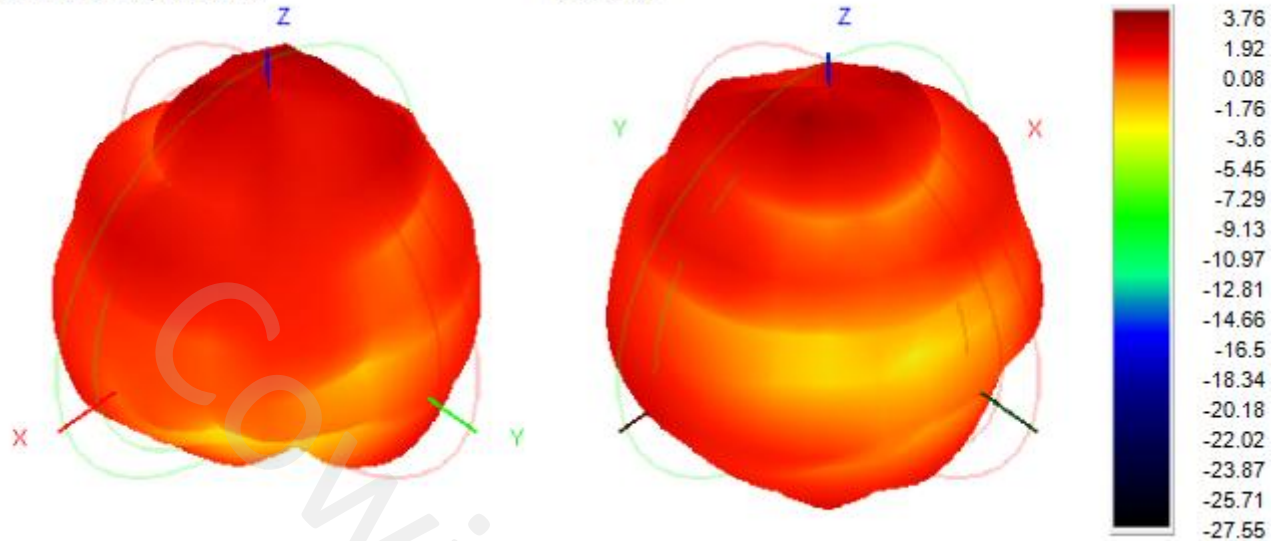
Frequency (MHz)	Gain (dBi)	Efficiency (%)
3100.0	3.33	63.49
3200.0	3.76	70.82
3300.0	3.52	70.00
3400.0	3.47	67.77
3500.0	4.34	65.34

4.5 3D&2D Radiation Patterns



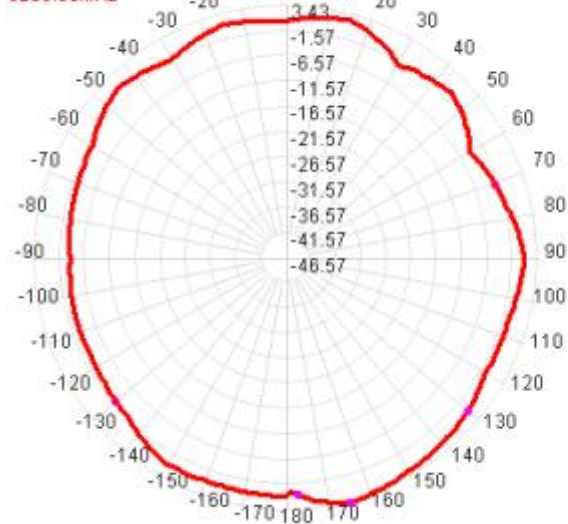
3200.0MHz H+V, Eff: 70.8%

Back View



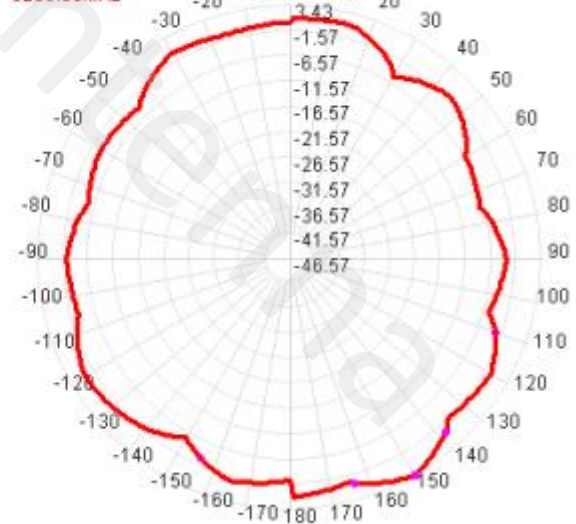
3200.0MHz Total(E1-XZ), Max= 3.43dBi

3200.00MHz



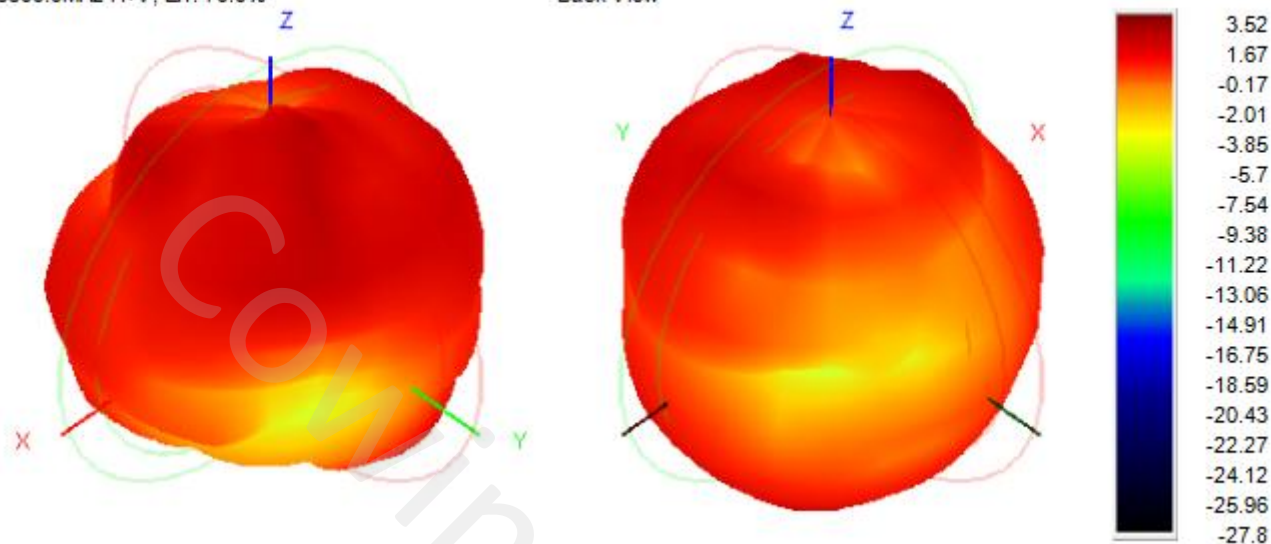
3200.0MHz Total(E2-YZ), Max= 2.96dBi

3200.00MHz

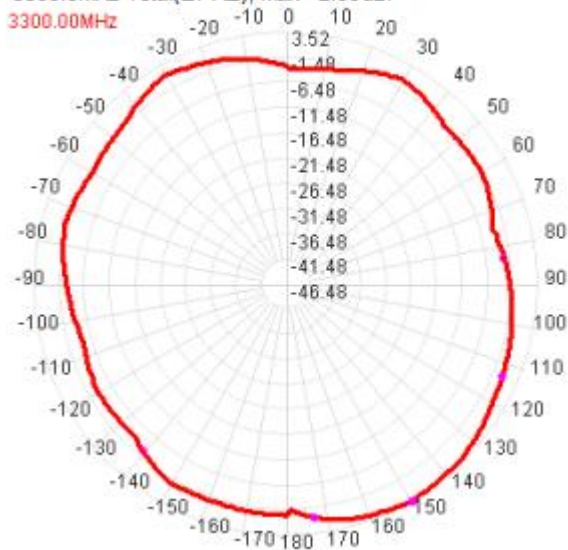


3300.0MHz H+V, Eff: 70.0%

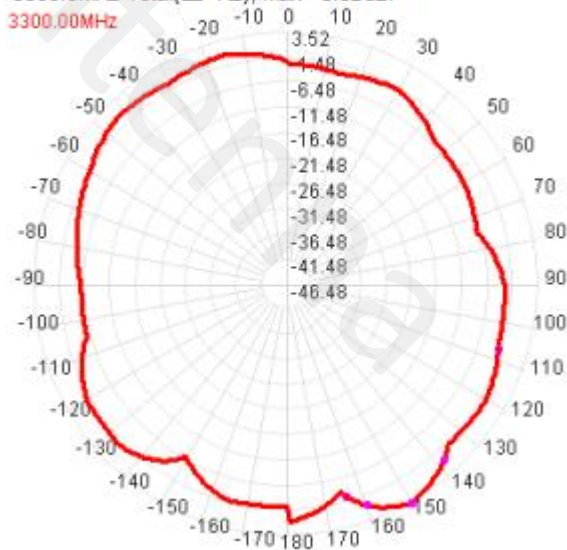
Back View



3300.0MHz Total(E1-XZ), Max= 2.99dBi

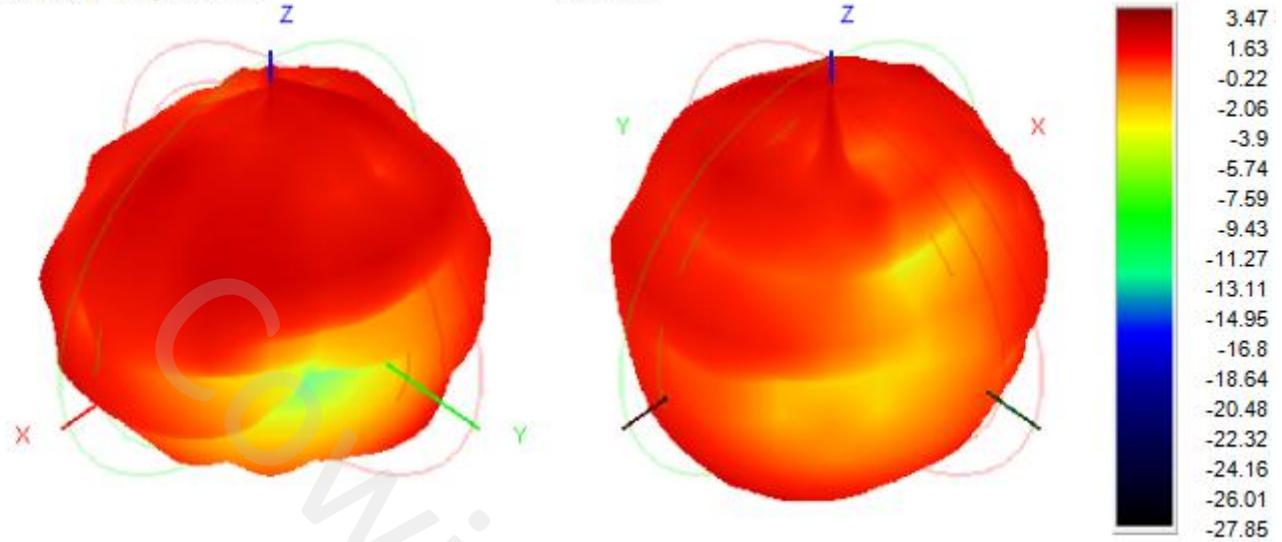


3300.0MHz Total(E2-YZ), Max= 3.52dBi

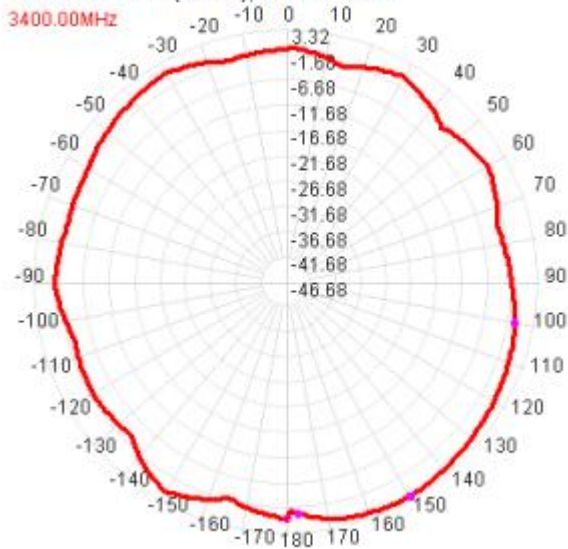


3400.0MHz H+V, Eff: 67.8%

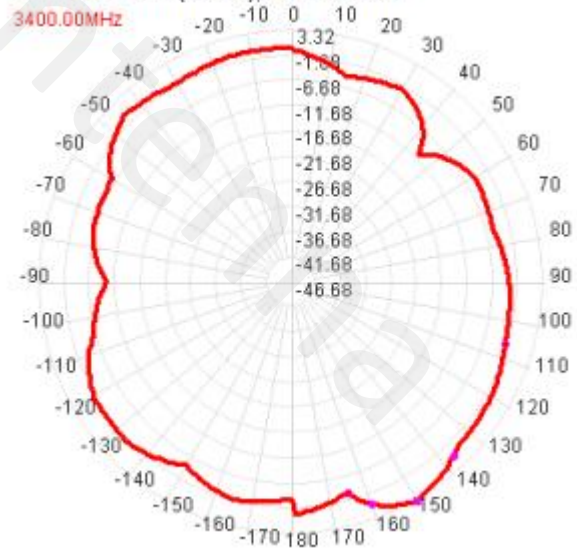
Back View



3400.0MHz Total(E1-XZ), Max= 2.26dBi

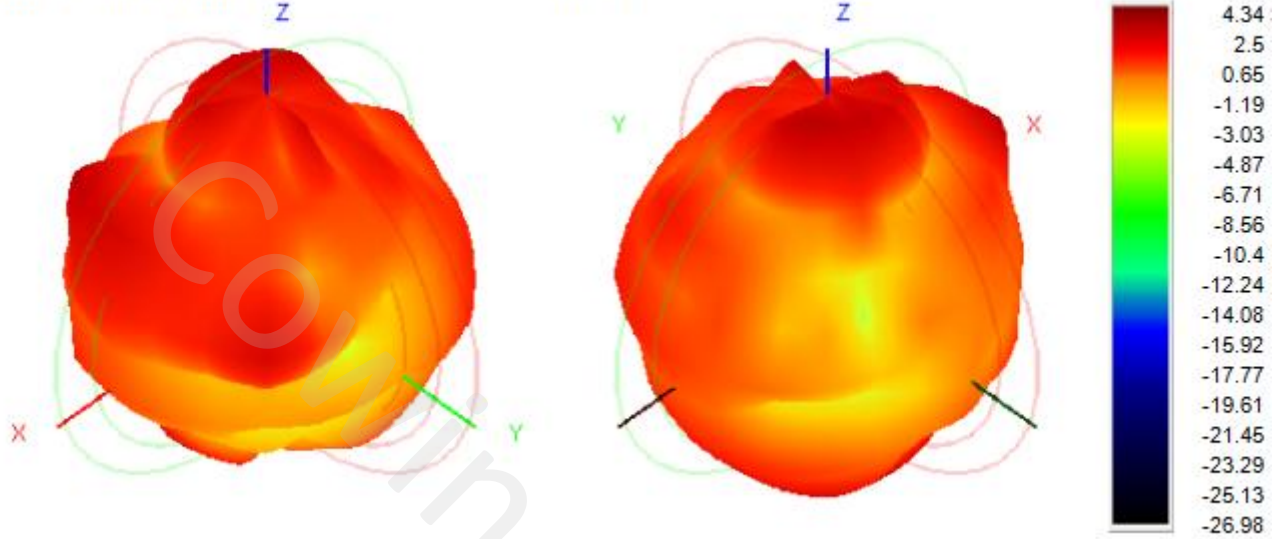


3400.0MHz Total(E2-YZ), Max= 3.32dBi

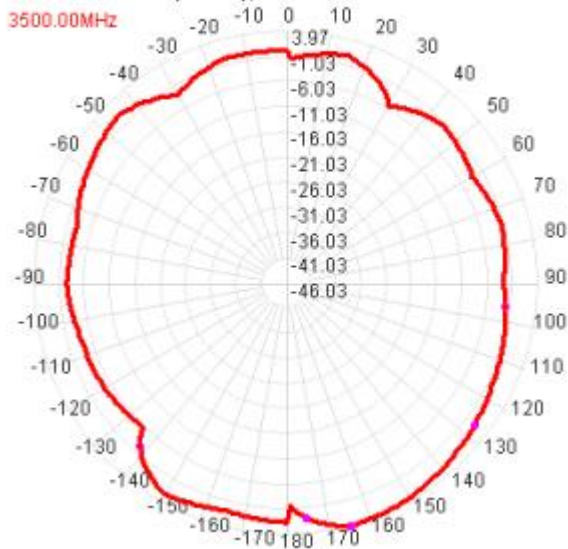


3500.0MHz H+V, Eff: 65.3%

Back View



3500.0MHz Total(E1-XZ), Max= 3.67dBi



3500.0MHz Total(E2-YZ), Max= 3.97dBi

