

CW-WZ-0064

2.4 GHz external rubber-duck antenna

Key Features

Frequency: 2.4G-2.5G/4.9G-5.85G

RA-SMA Male Connector

External Rubber

Dimensions 108*7.9 mm

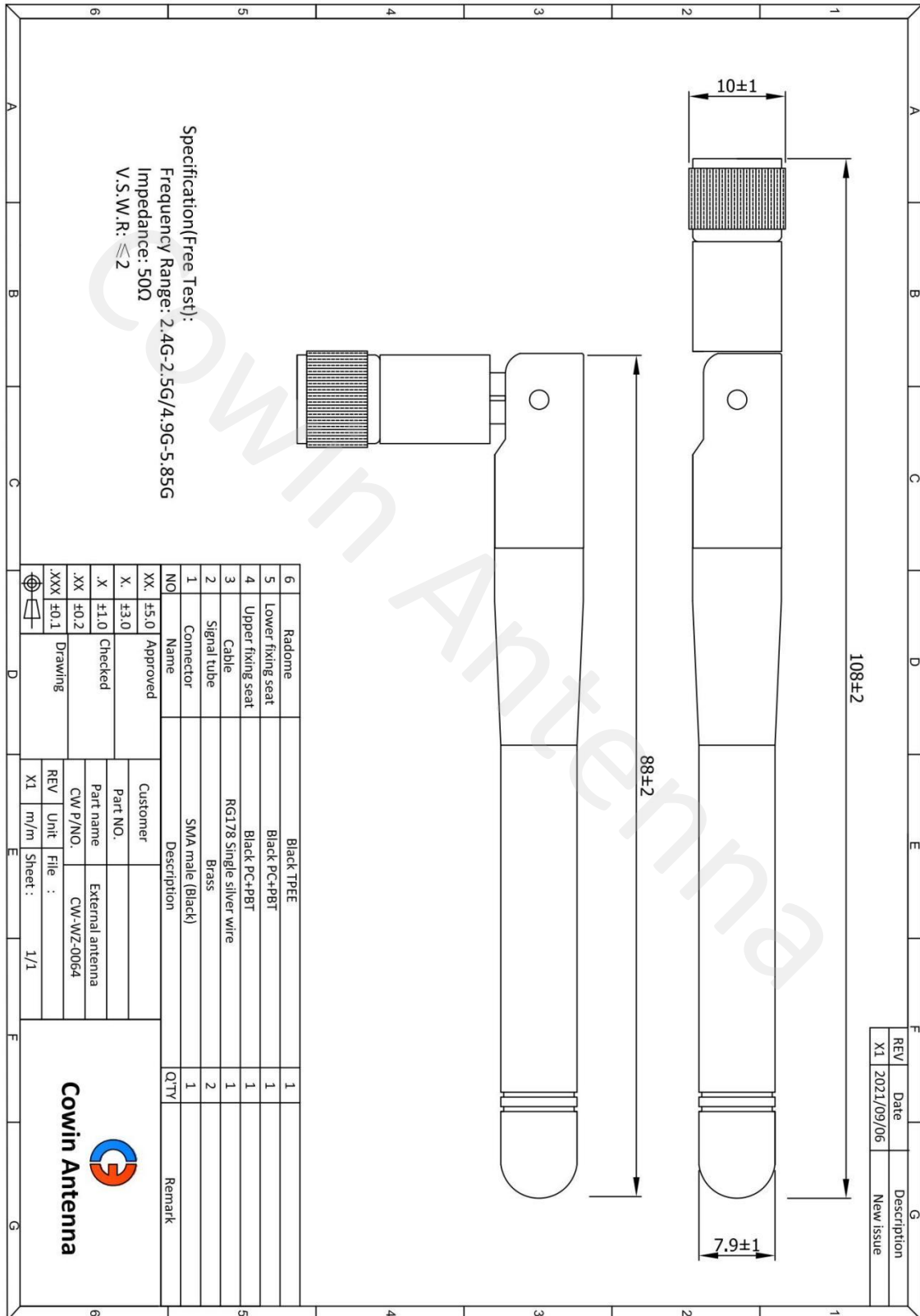


1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	2.4G-2.5G	4.9G-5.85G
VSWR	2:1	2:1
Efficiency (%)	62.99%	61.02%
Peak Gain (dBi)	3.28	3.73
Impedance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	RA SMA male	

2. Material and environmental characteristics

Material of PCB	N/A
Material of Plastic	PC+PBT/TPEE
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	108*7.9MM
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

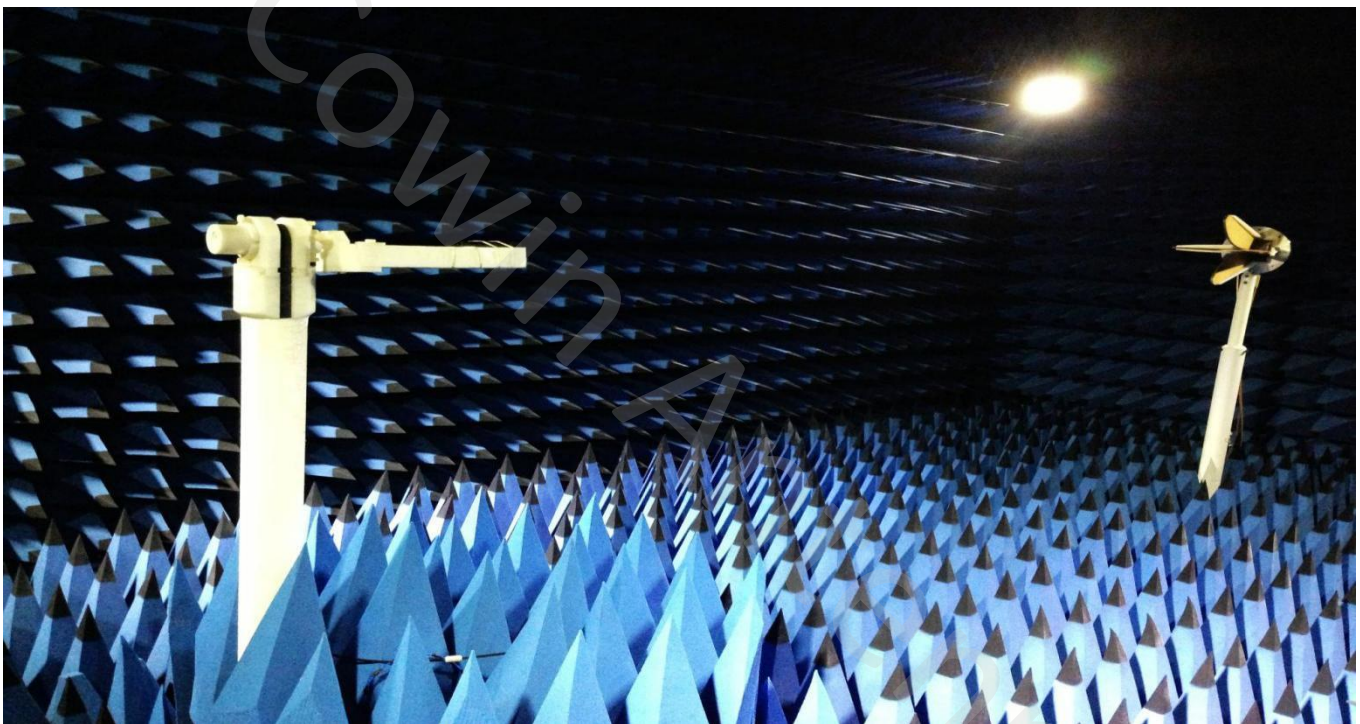
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

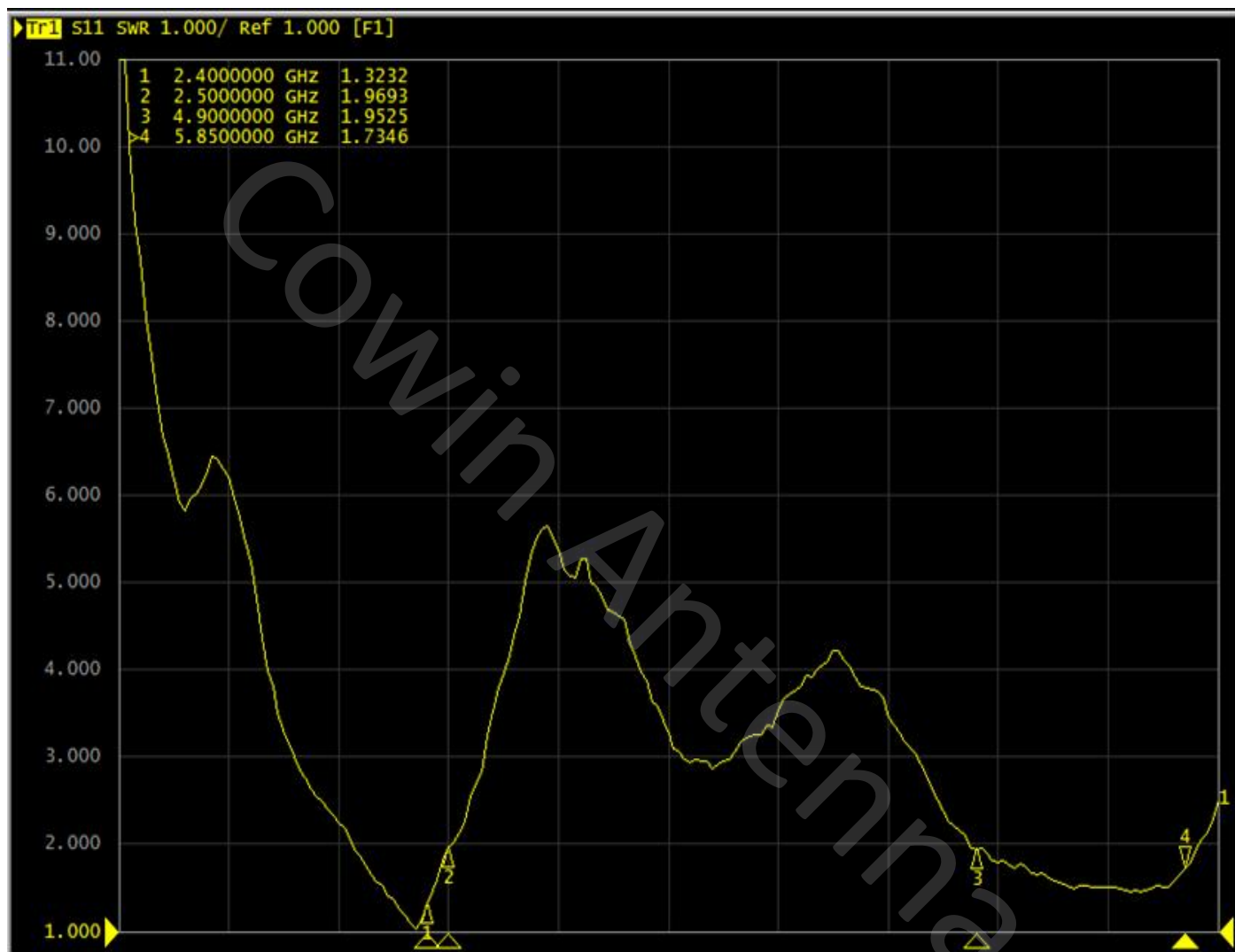
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

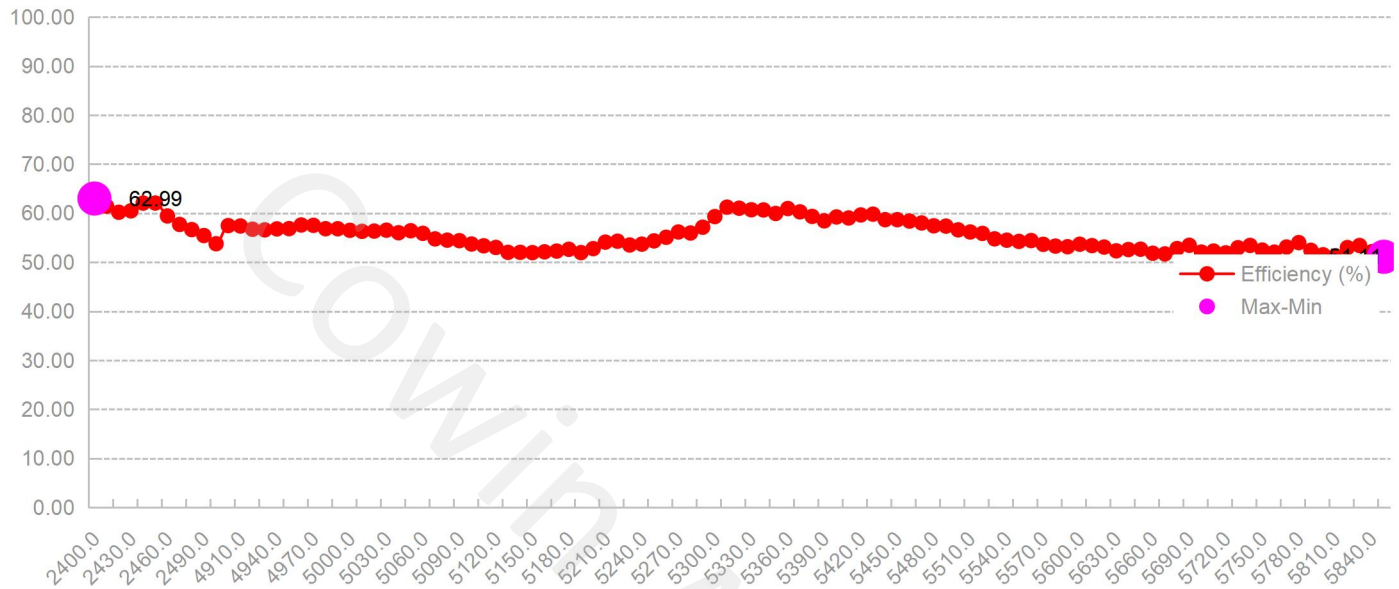
The comprehensive tester is Agilent cmv500



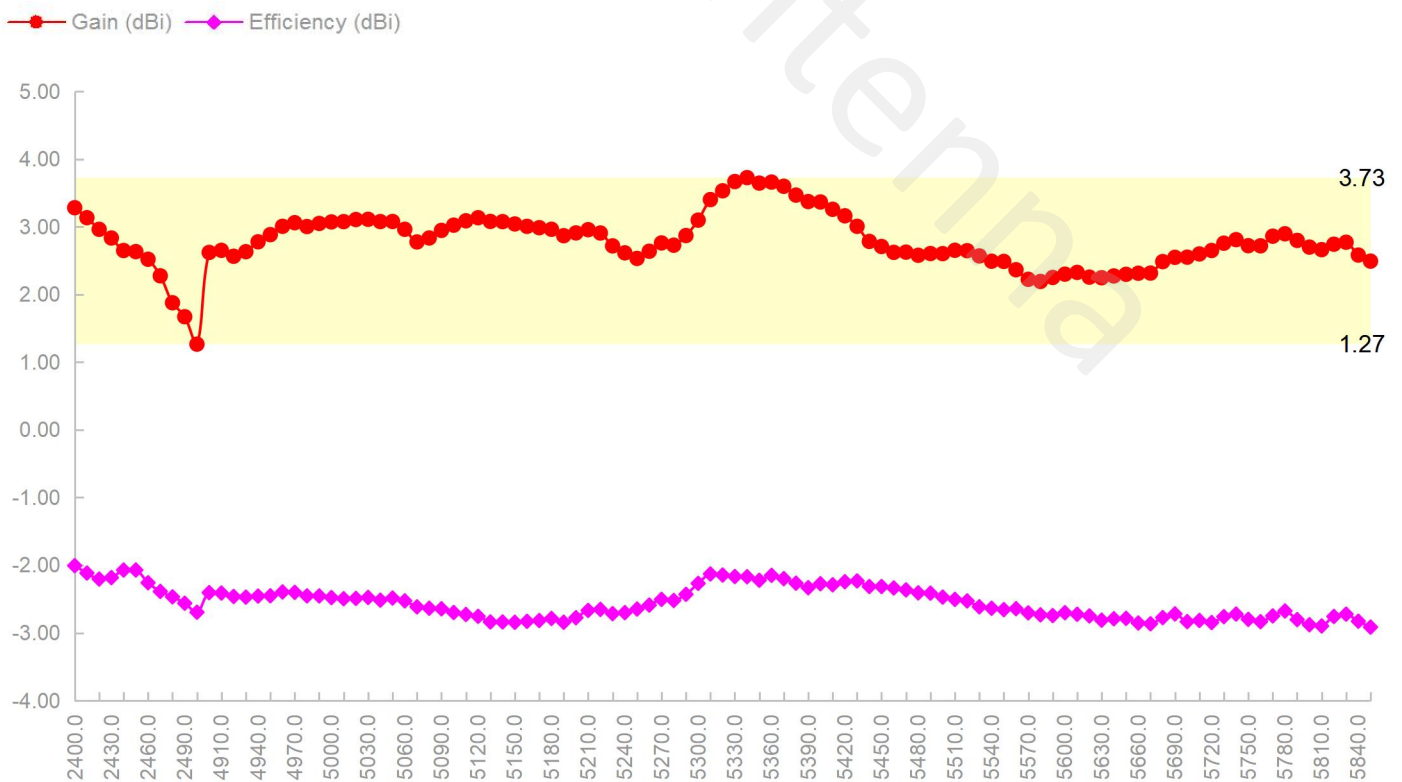
4.1 VSWR



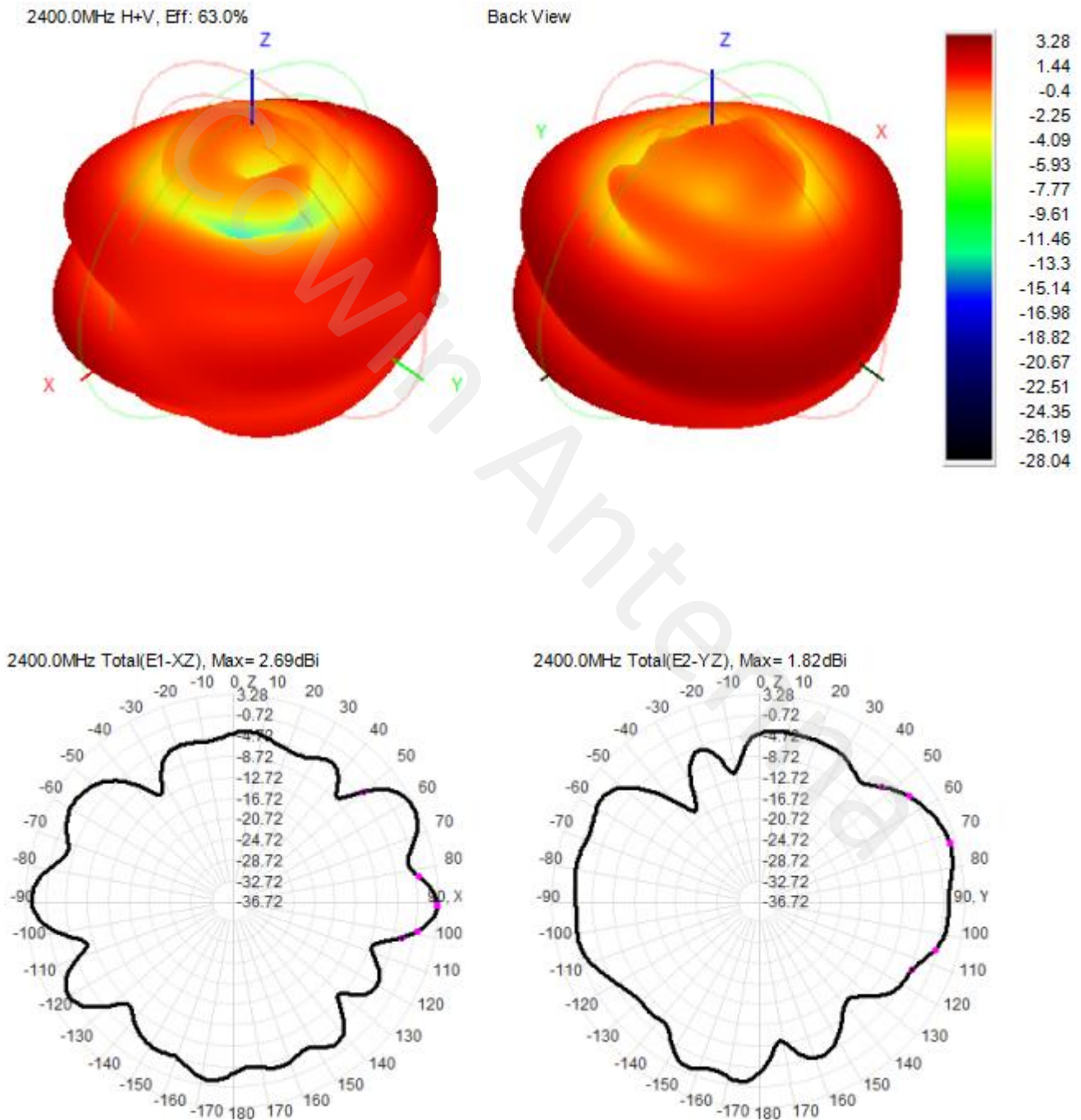
4.2 Efficiency



4.3 Peak gain

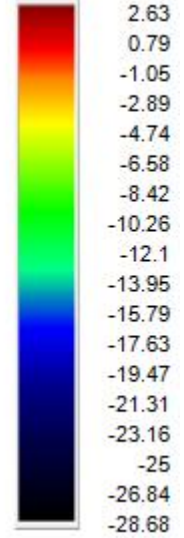
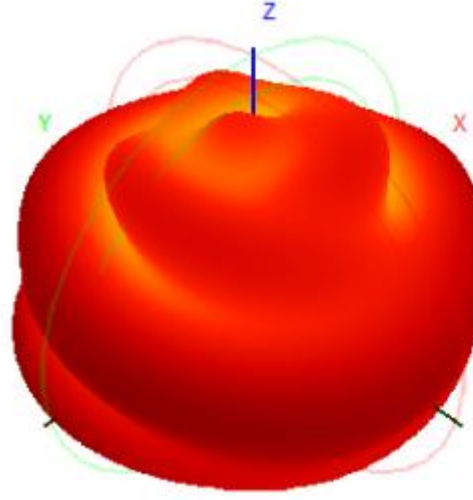
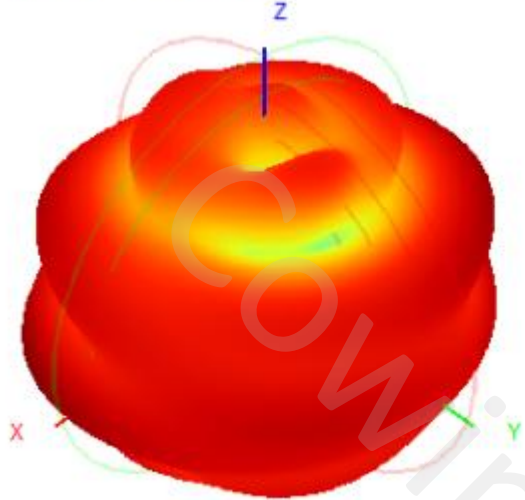


4.4 3D&2D Radiation Patterns

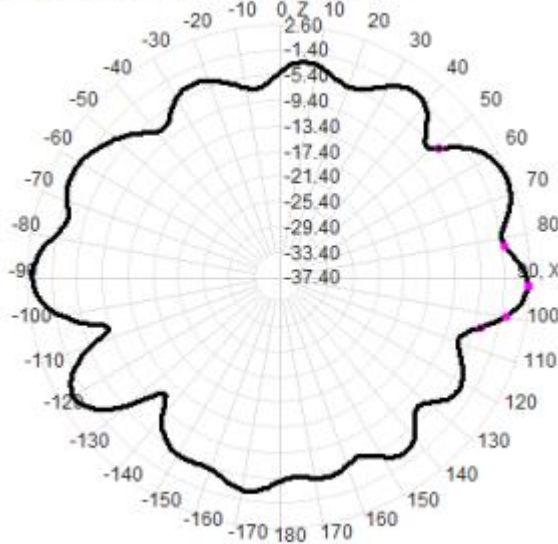


2450.0MHz H+V, Eff: 62.1%

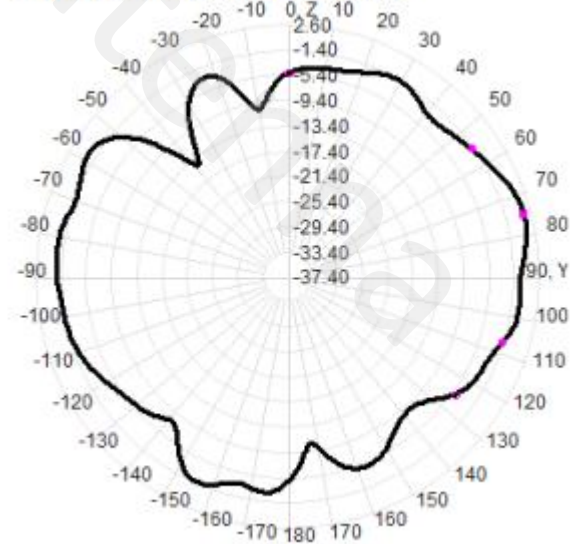
Back View



2450.0MHz Total(E1-XZ), Max= 1.94dBi

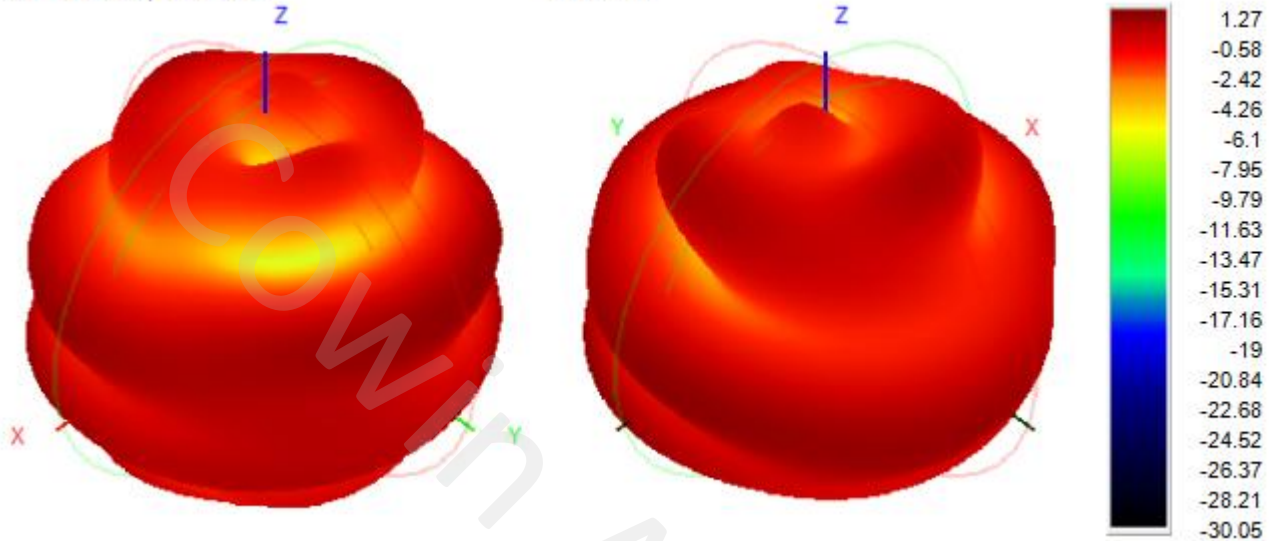


2450.0MHz Total(E2-YZ), Max= 1.17dBi



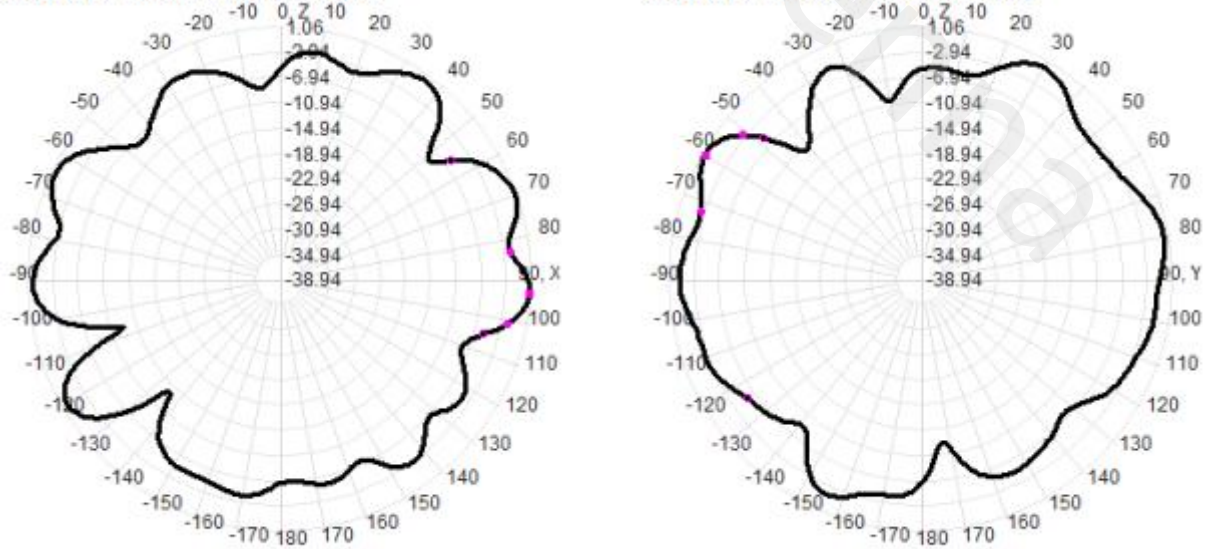
2500.0MHz H+V, Eff: 53.8%

Back View



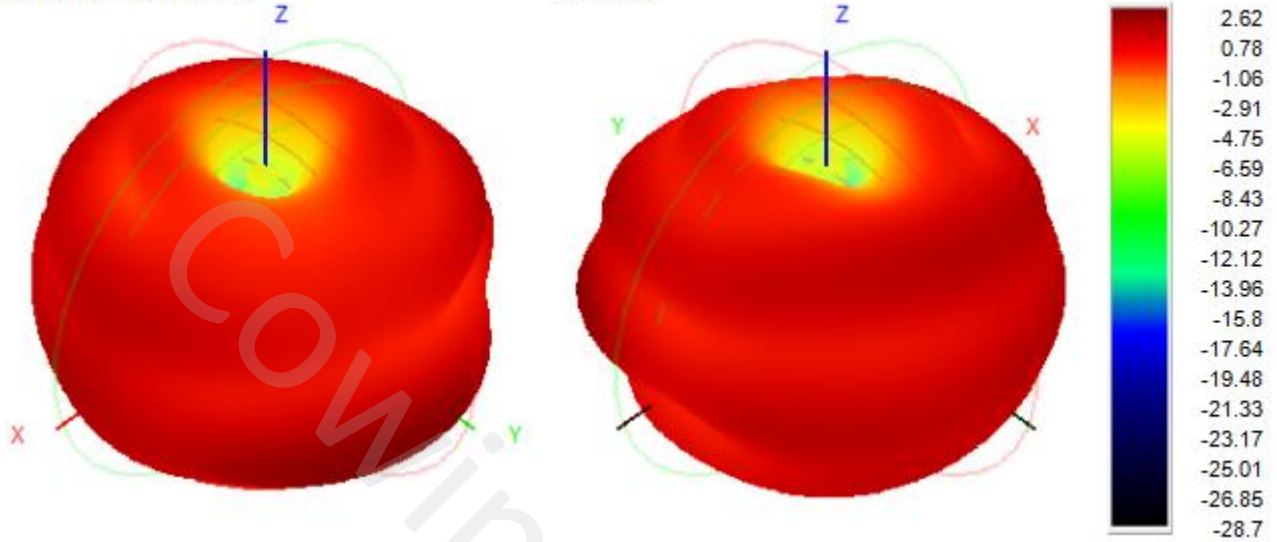
2500.0MHz Total(E1-XZ), Max= 0.63dBi

2500.0MHz Total(E2-YZ), Max= 0.59dBi



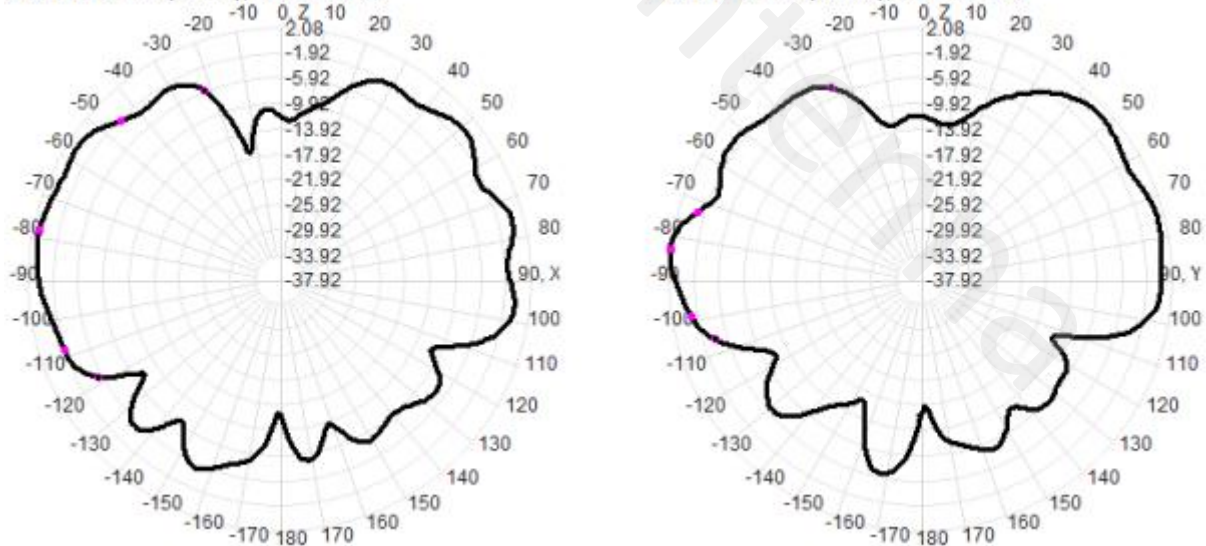
4900.0MHz H+V, Eff: 57.5%

Back View

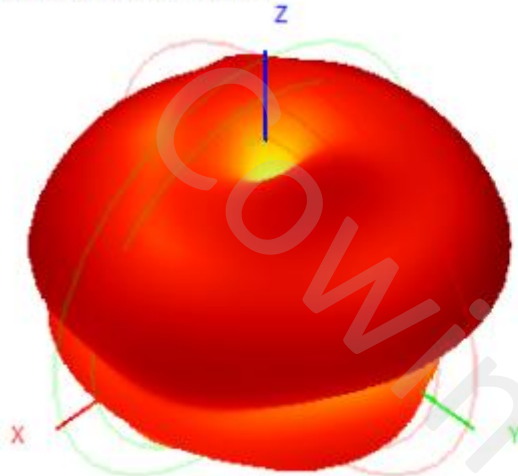


4900.0MHz Total(E1-XZ), Max= 1.06dBi

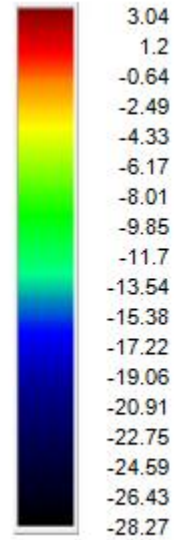
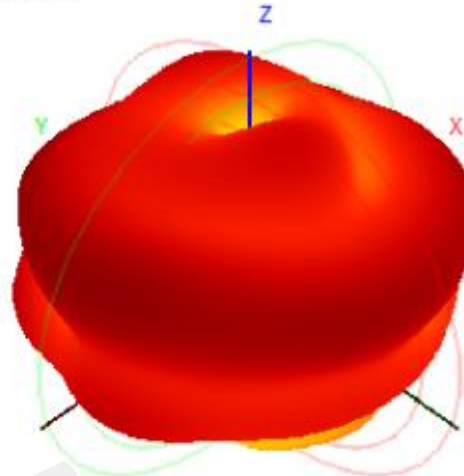
4900.0MHz Total(E2-YZ), Max= 2.08dBi



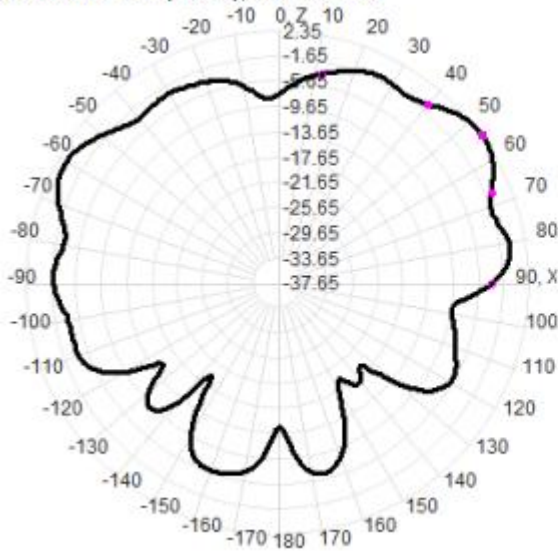
5150.0MHz H+V, Eff: 52.0%



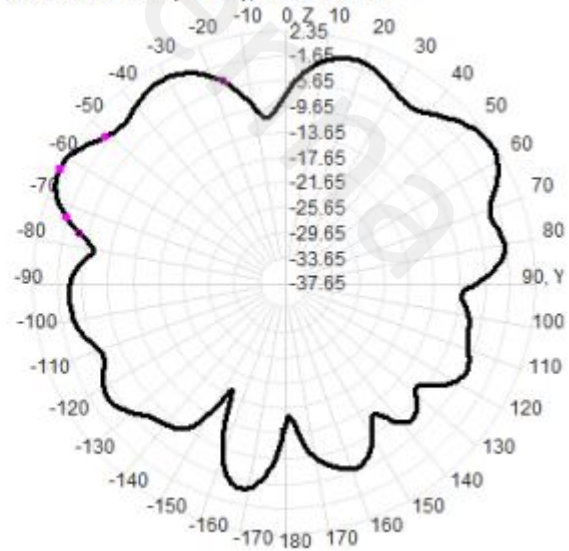
Back View



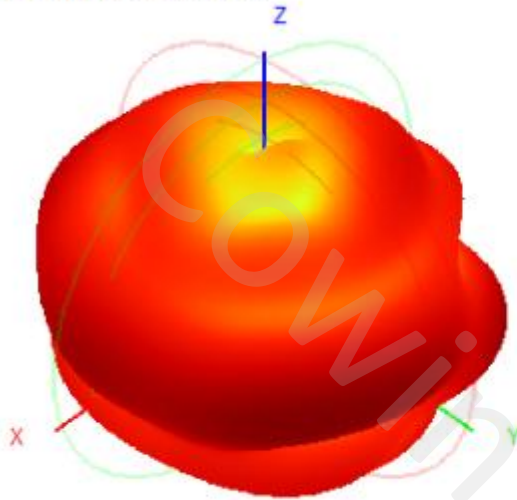
5150.0MHz Total(E1-XZ), Max= 2.35dBi



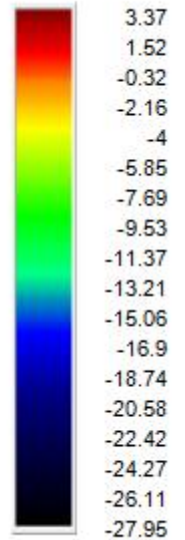
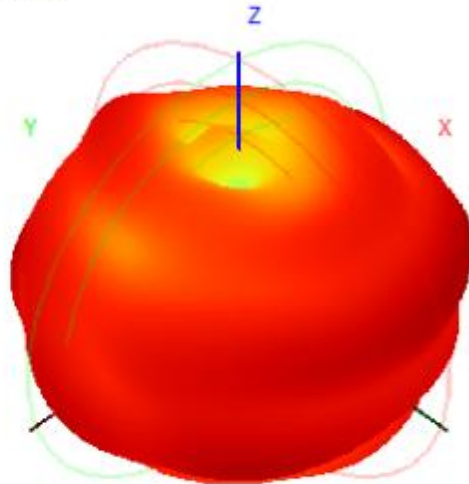
5150.0MHz Total(E2-YZ), Max= 2.28dBi



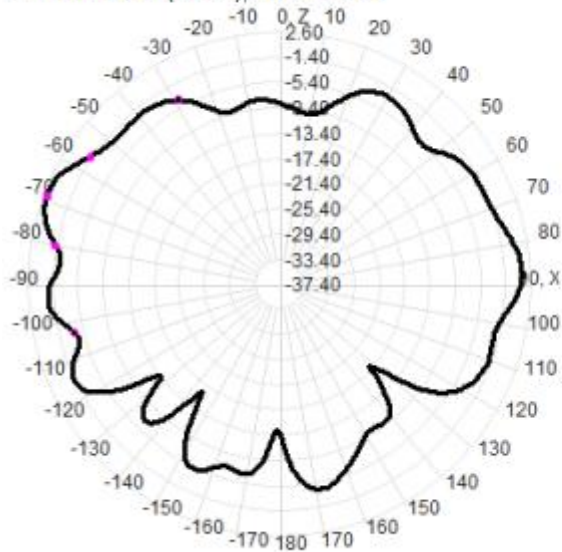
5400.0MHz H+V, Eff: 59.2%



Back View



5400.0MHz Total(E1-XZ), Max= 2.15dBi



5400.0MHz Total(E2-YZ), Max= 1.55dBi

