

CW-NZ-0045

2.4G/5.8G PIFA Antenna

Key Features

Frequency: 2.4-2.5G/5.15-5.85G

IPEX Connector

3M Adhesive

Dimensions 30*11*5.2mm

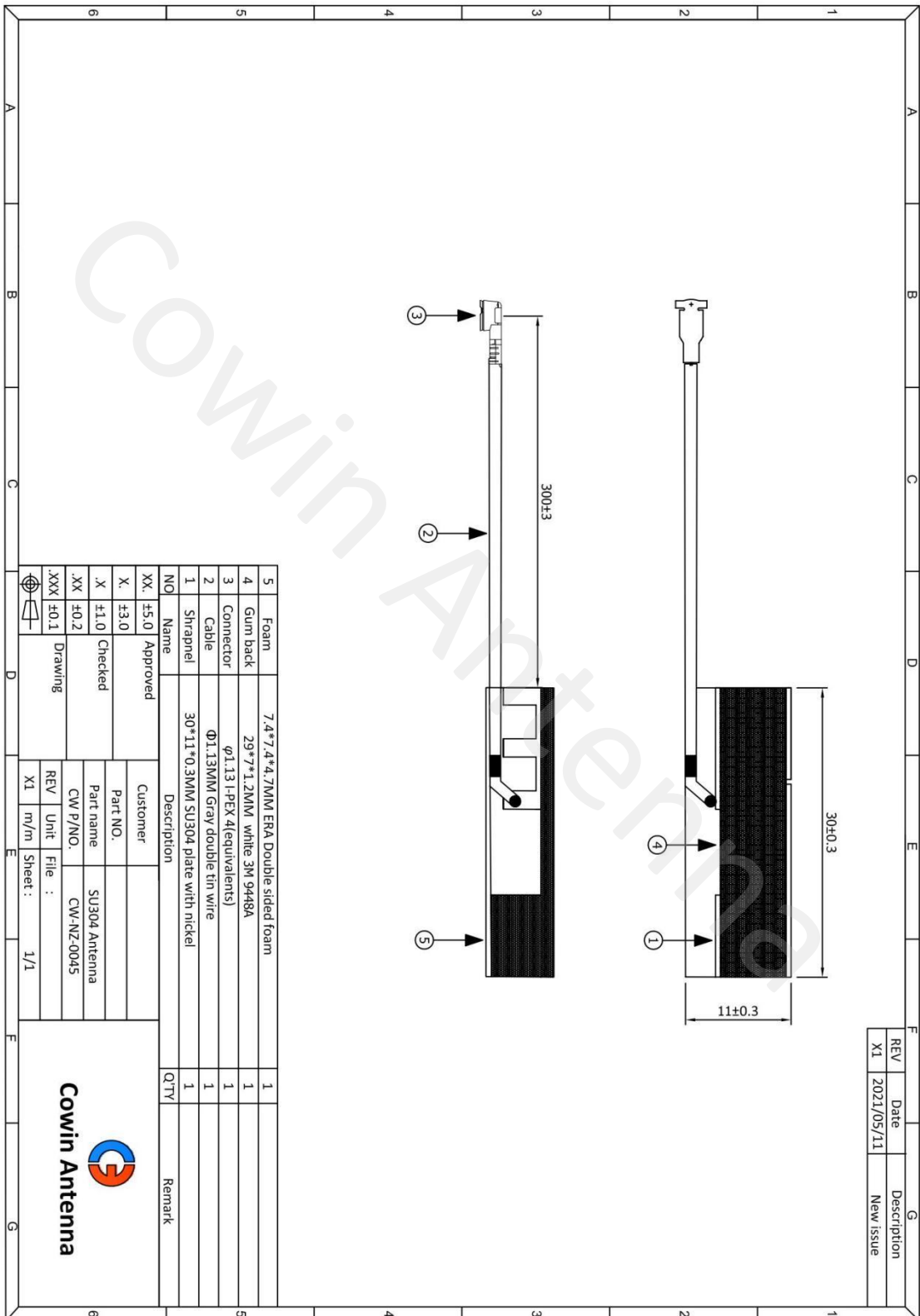


1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	2.4-2.5G	5.15-5.85G
VSWR	2:1	2:1
Efficiency (%)	56.5%	49.45%
Peak Gain (dBi)	1.99	3.52
Impedance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	IPEX	

2. Material and environmental characteristics

inner structure	SU304 Stainless steel
Material of Plastic	N/A
Cable Type	RF1.13
Connector Type	IPEX
Dimensions (mm)	30*11*5.2MM
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

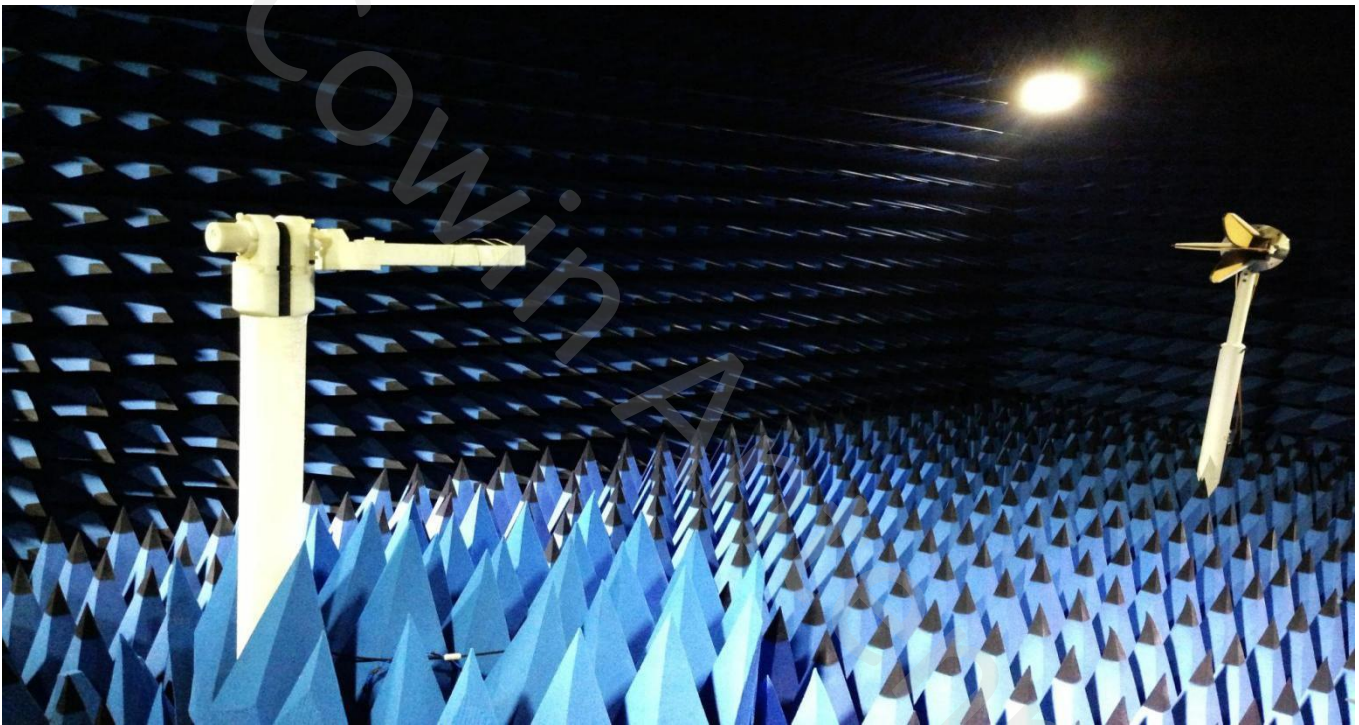
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

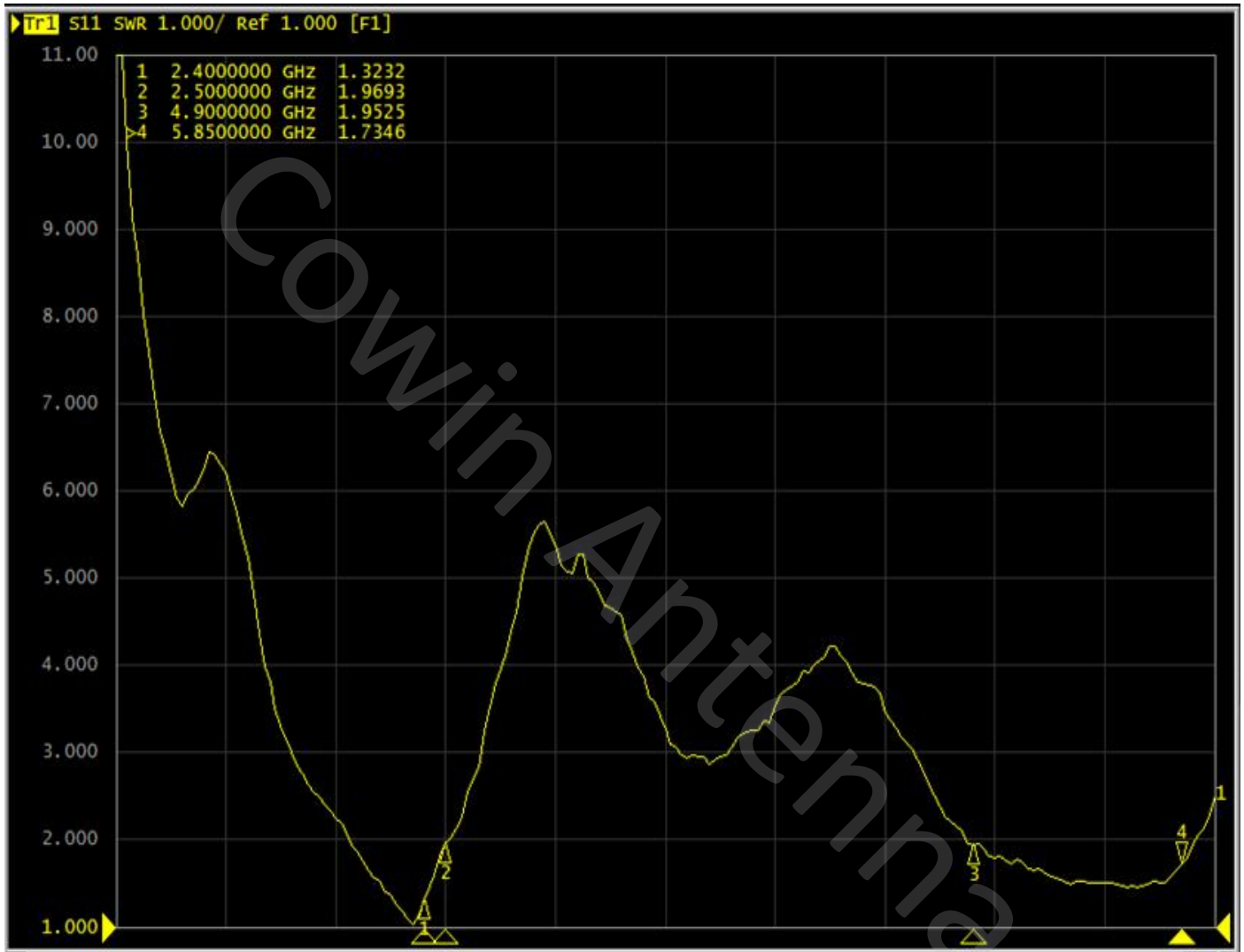
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

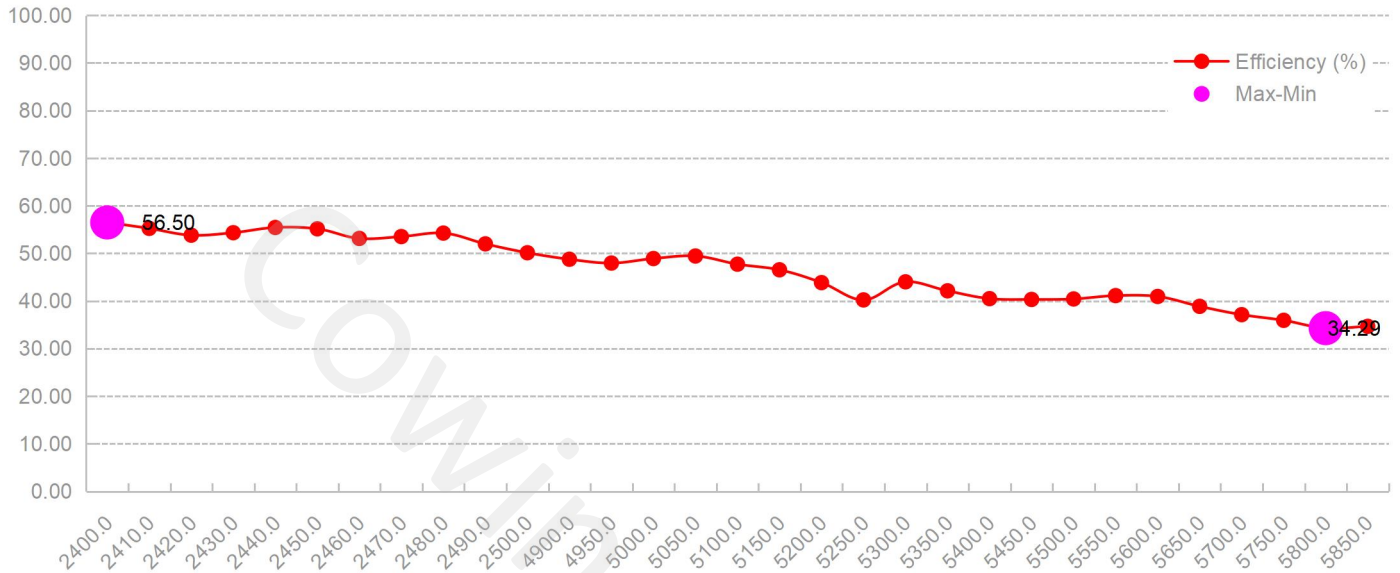
The comprehensive tester is Agilent cmv500



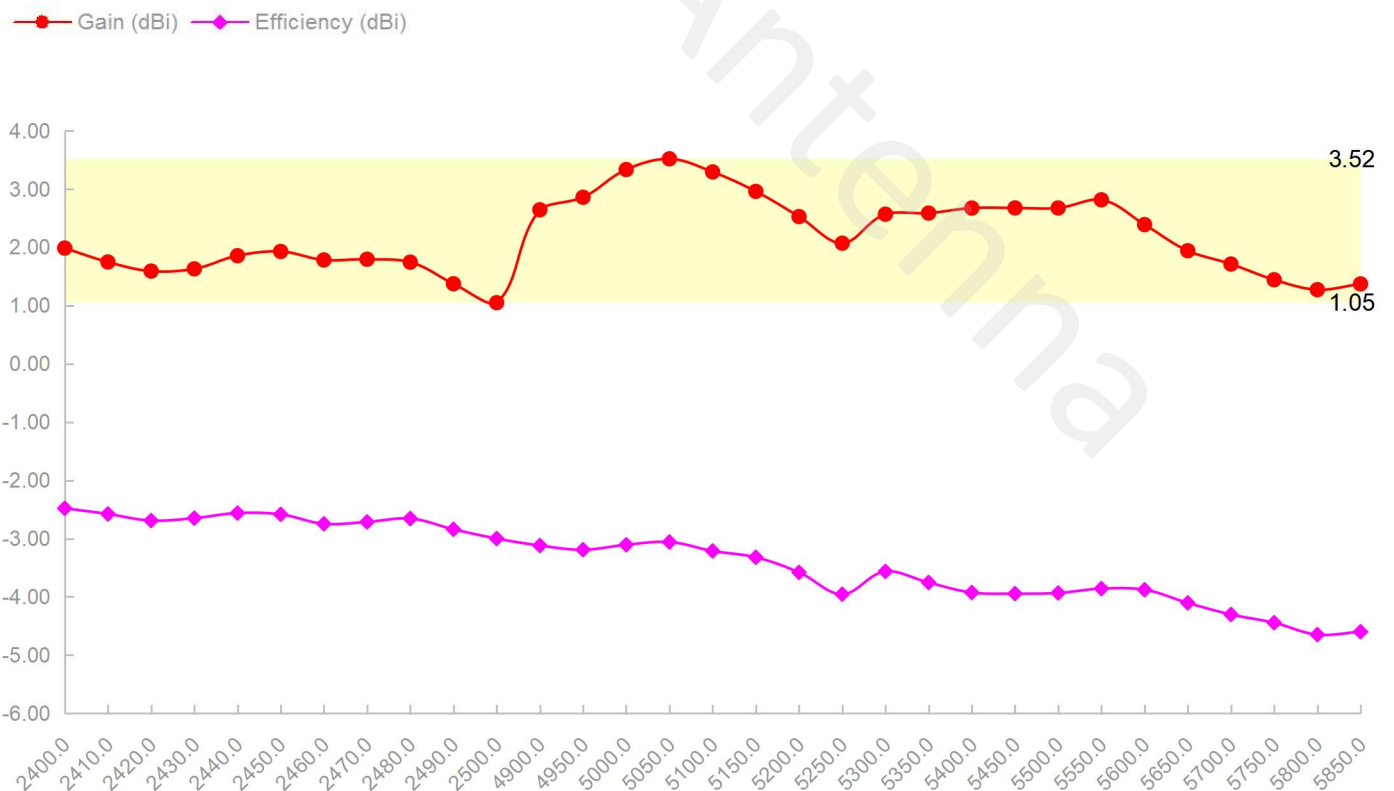
4.1 VSWR



4.2 Efficiency

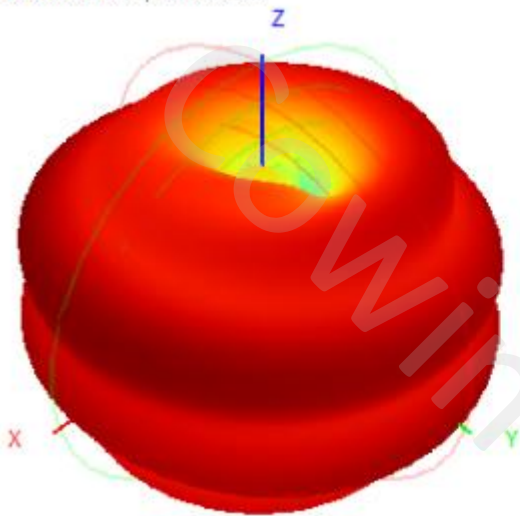


4.3 Peak gain

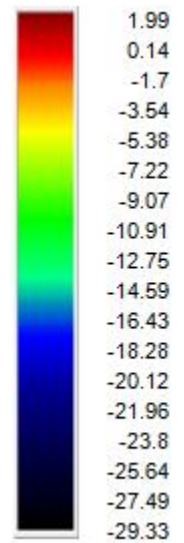
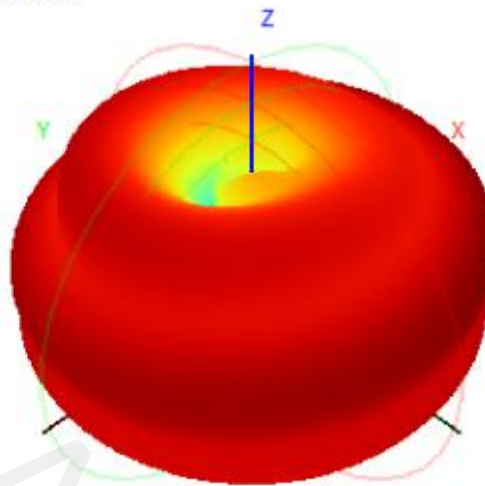


4.4 3D&2D Radiation Patterns

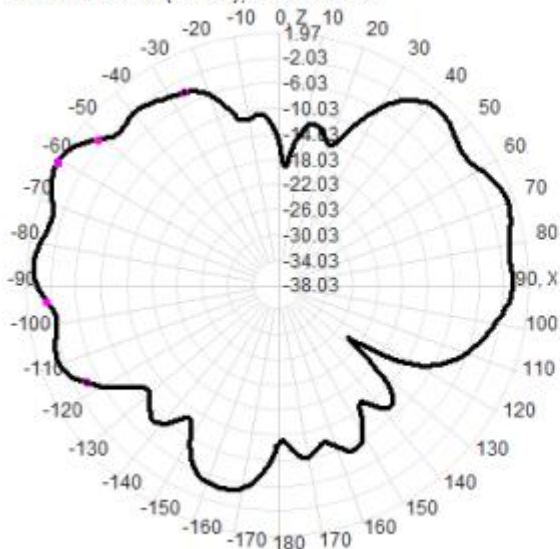
2400.0MHz H+V, Eff: 56.5%



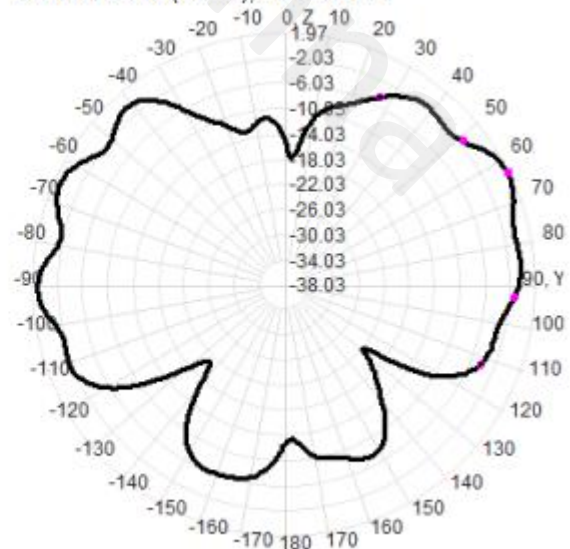
Back View



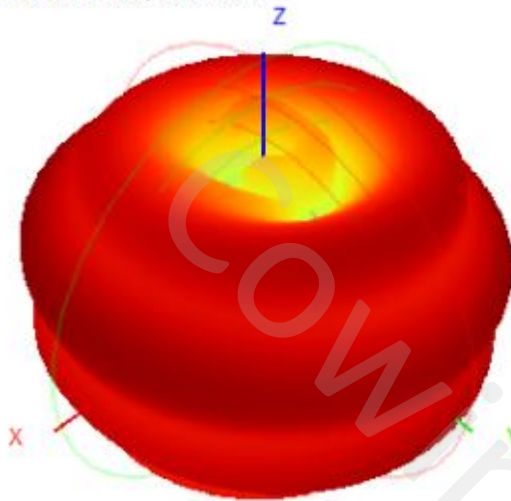
2400.0MHz Total(E1-XZ), Max= 1.97dBi



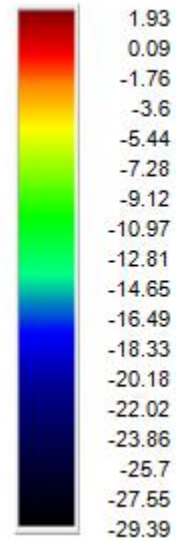
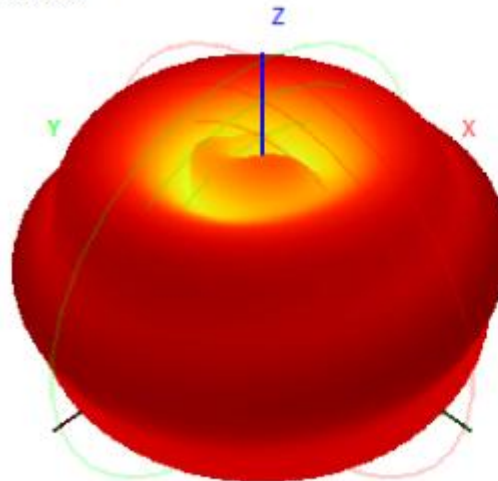
2400.0MHz Total(E2-YZ), Max= 1.54dBi



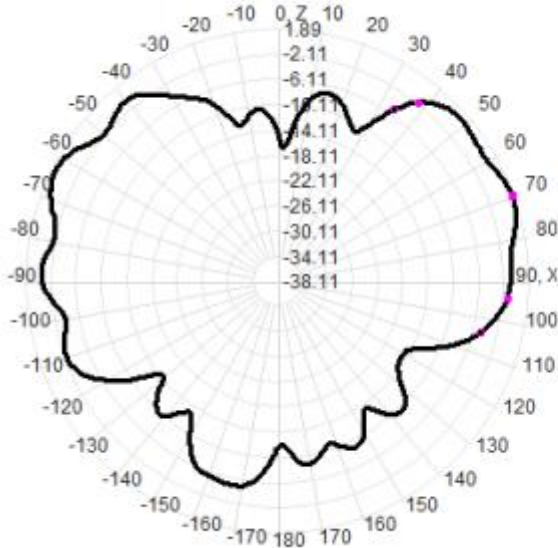
2450.0MHz H+V, Eff: 55.2%



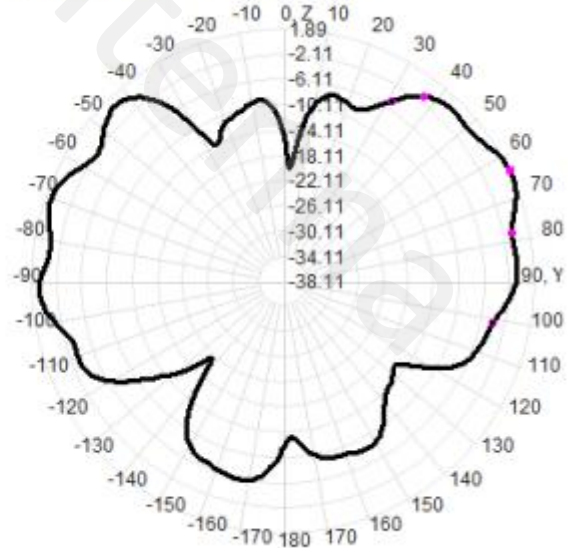
Back View



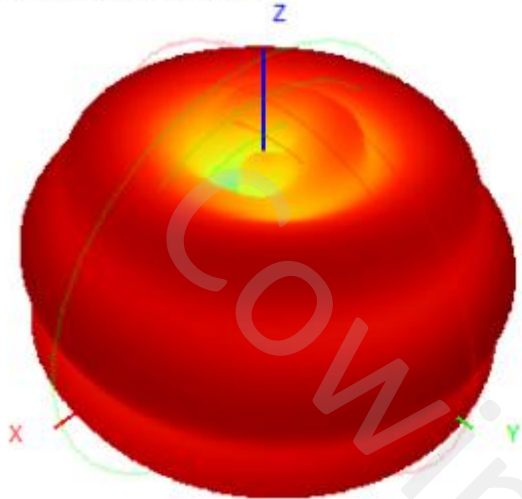
2450.0MHz Total(E1-XZ), Max= 1.40dBi



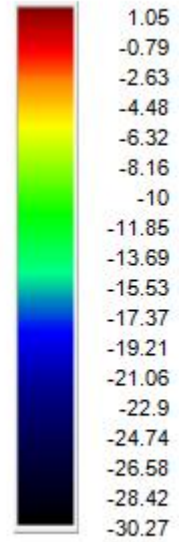
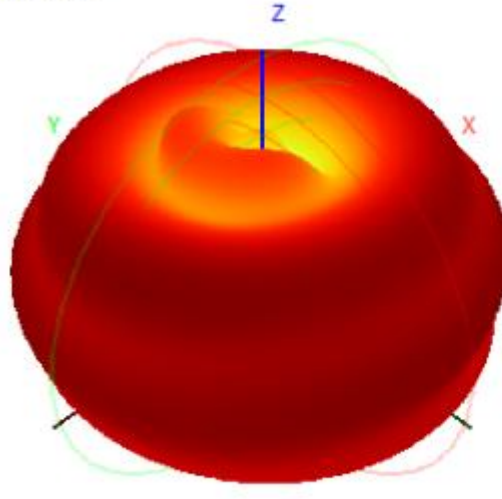
2450.0MHz Total(E2-YZ), Max= 1.89dBi



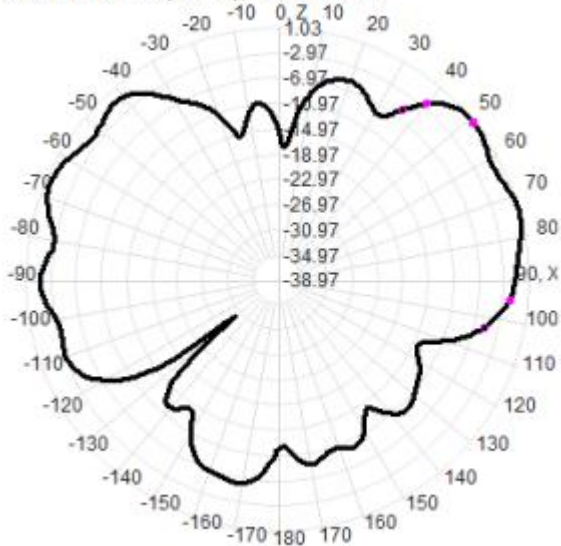
2500.0MHz H+V, Eff: 50.1%



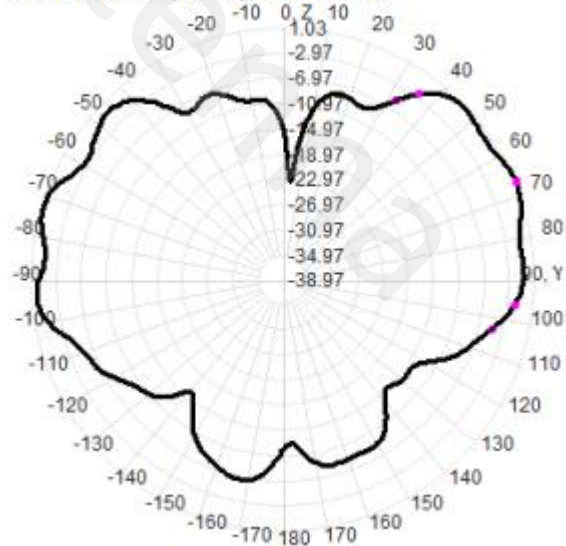
Back View



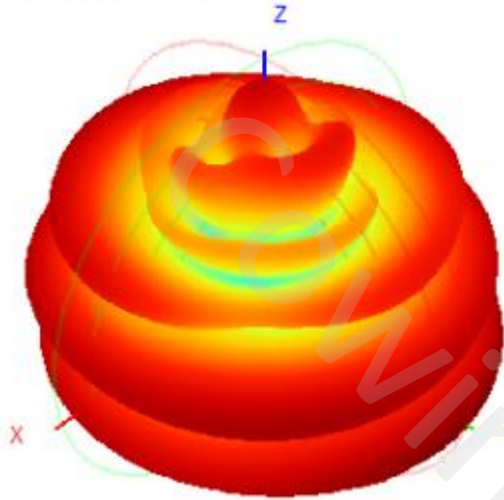
2500.0MHz Total(E1-XZ), Max= 0.82dBi



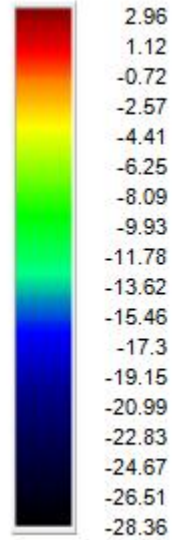
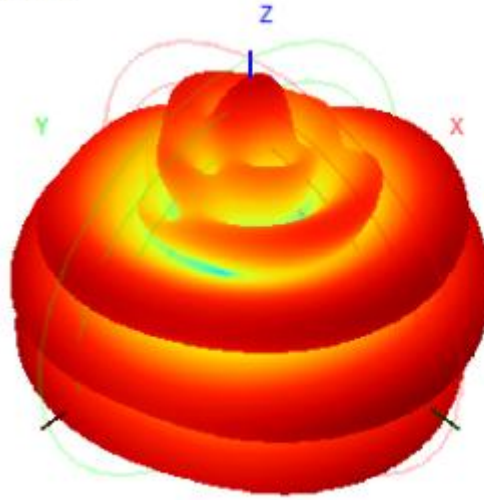
2500.0MHz Total(E2-YZ), Max= 1.03dBi



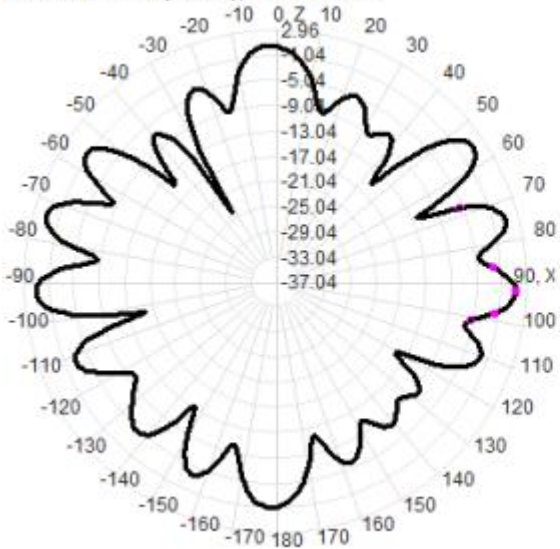
5150.0MHz H+V, Eff: 46.5%



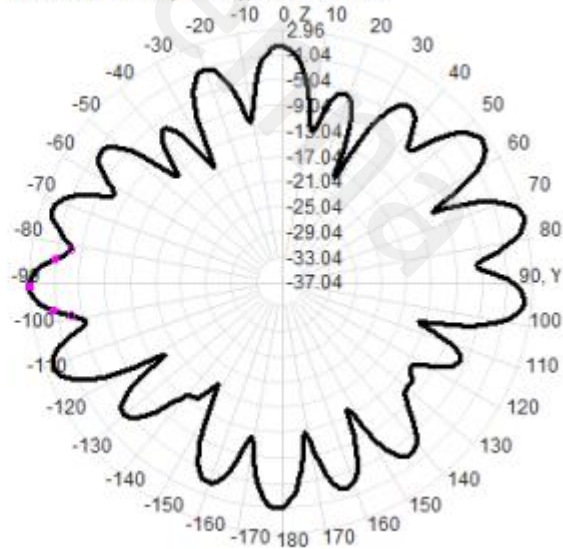
Back View



5150.0MHz Total(E1-XZ), Max= 0.99dBi

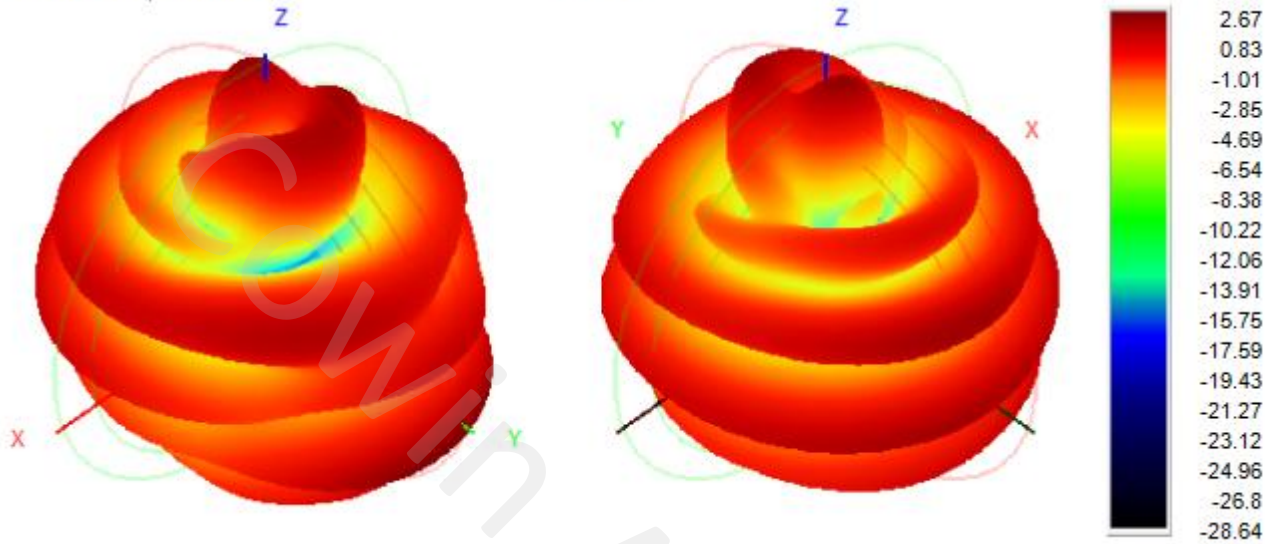


5150.0MHz Total(E2-YZ), Max= 2.96dBi

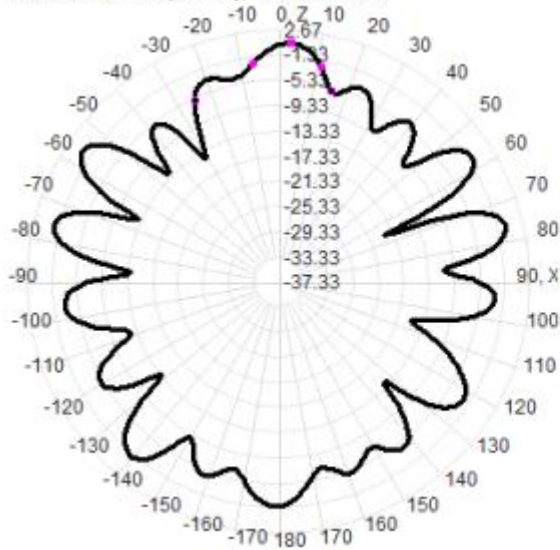


5400.0MHz H+V, Eff: 40.5%

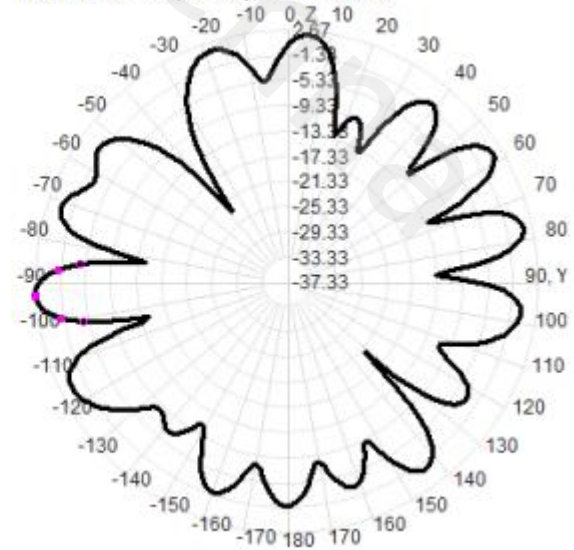
Back View



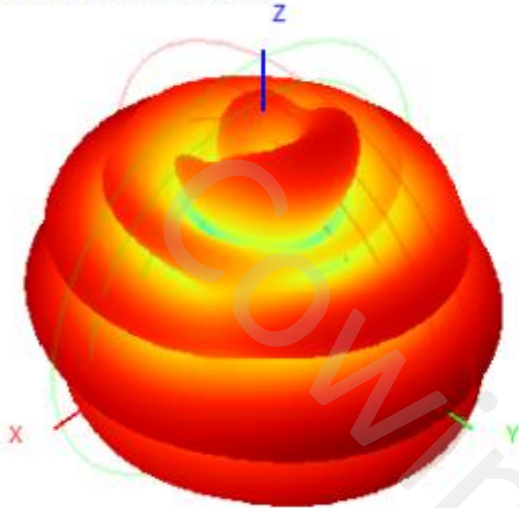
5400.0MHz Total(E1-XZ), Max= 0.55dBi



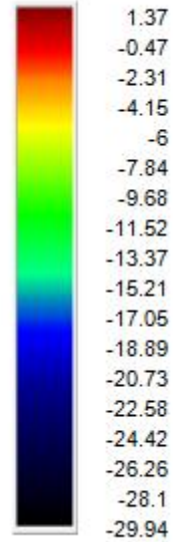
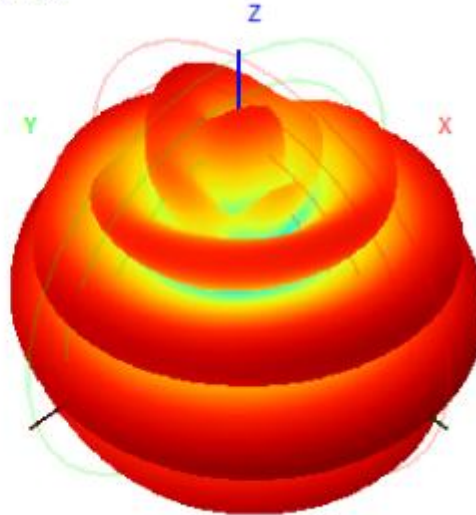
5400.0MHz Total(E2-YZ), Max= 2.67dBi



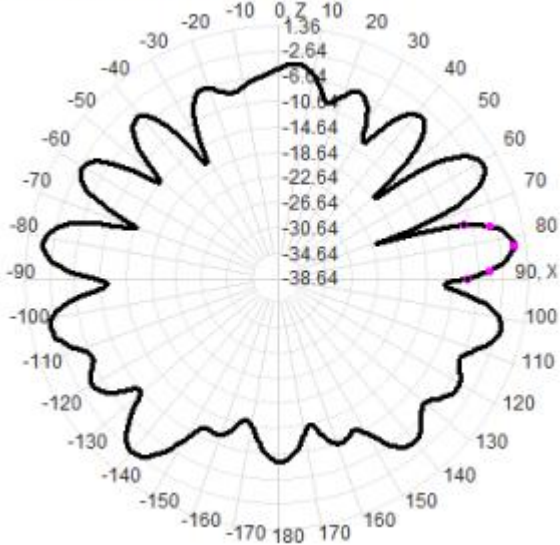
5850.0MHz H+V, Eff: 34.7%



Back View



5850.0MHz Total(E1-XZ), Max= -0.88dBi



5850.0MHz Total(E2-YZ), Max= 1.36dBi

