

CW-NZ-0194

2.4-2.5G/5.15-5.85G PCB Antenna

Key Features

Frequency: 2.4-2.5G/5.15-5.85G

I-PEX Connector

1.13 Cable

Dimensions: 40*8.1*0.8mm

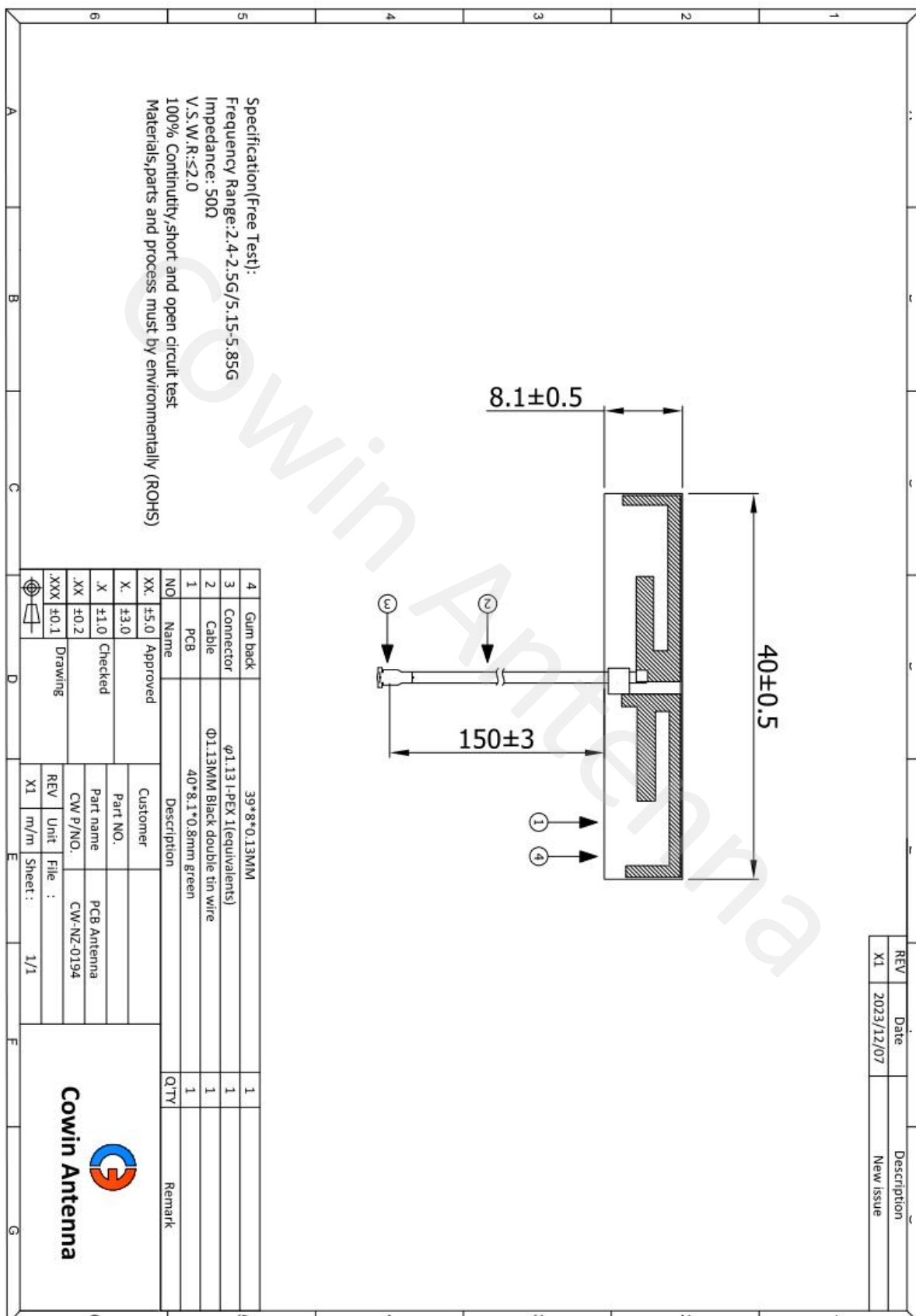


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G/5.15-5.85G
VSWR	≤2
Efficiency (%)	77.54%
Peak Gain (dBi)	4.15
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	I-PEX

2. Material and environmental characteristics

External structure	N/A
Inner structure	Connector/Cable/PCB
Cable Type	RF1.13
Connector Type	I-PEX
Dimensions (mm)	40*8.1*0.8MM
Antenna color	Green
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

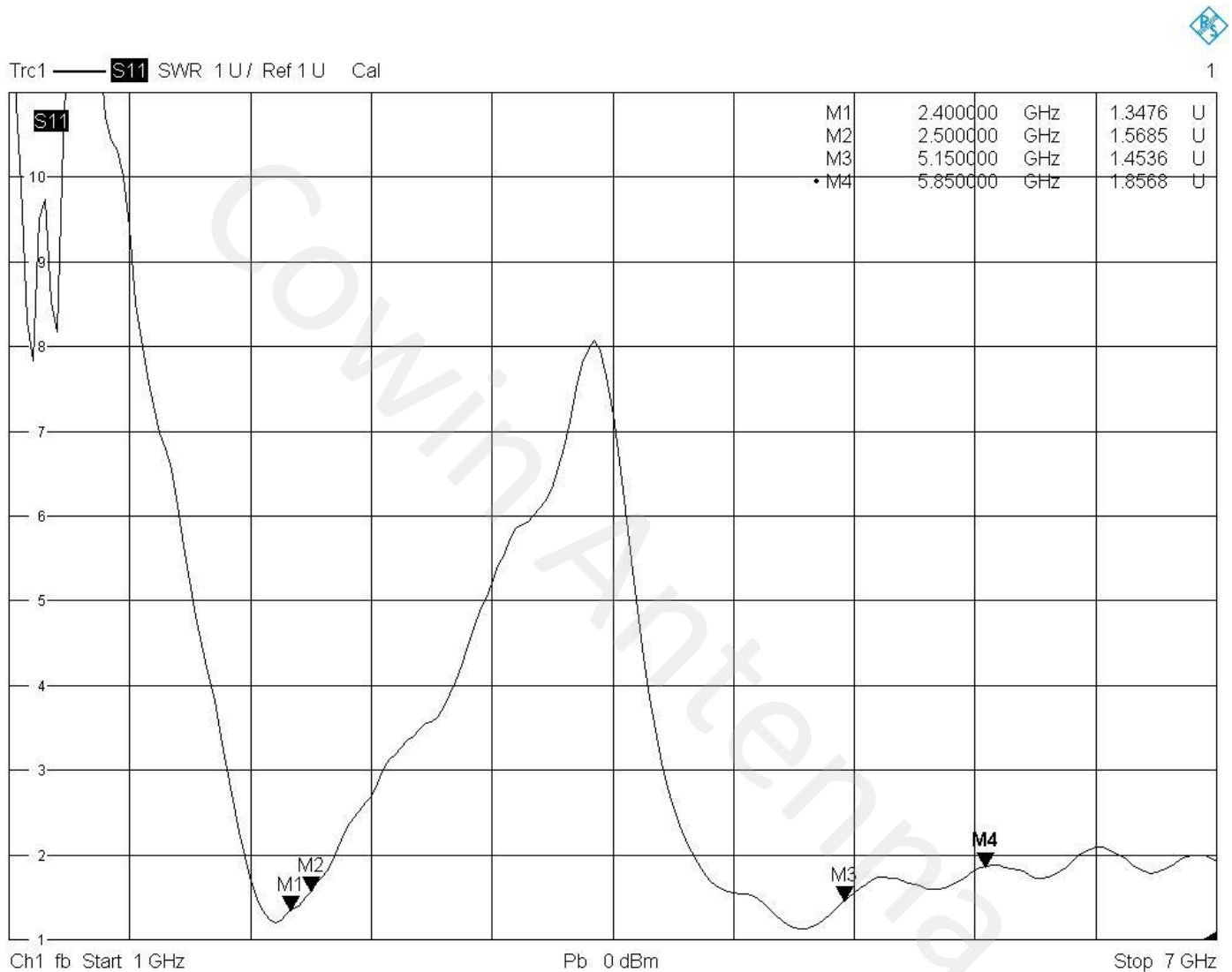
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

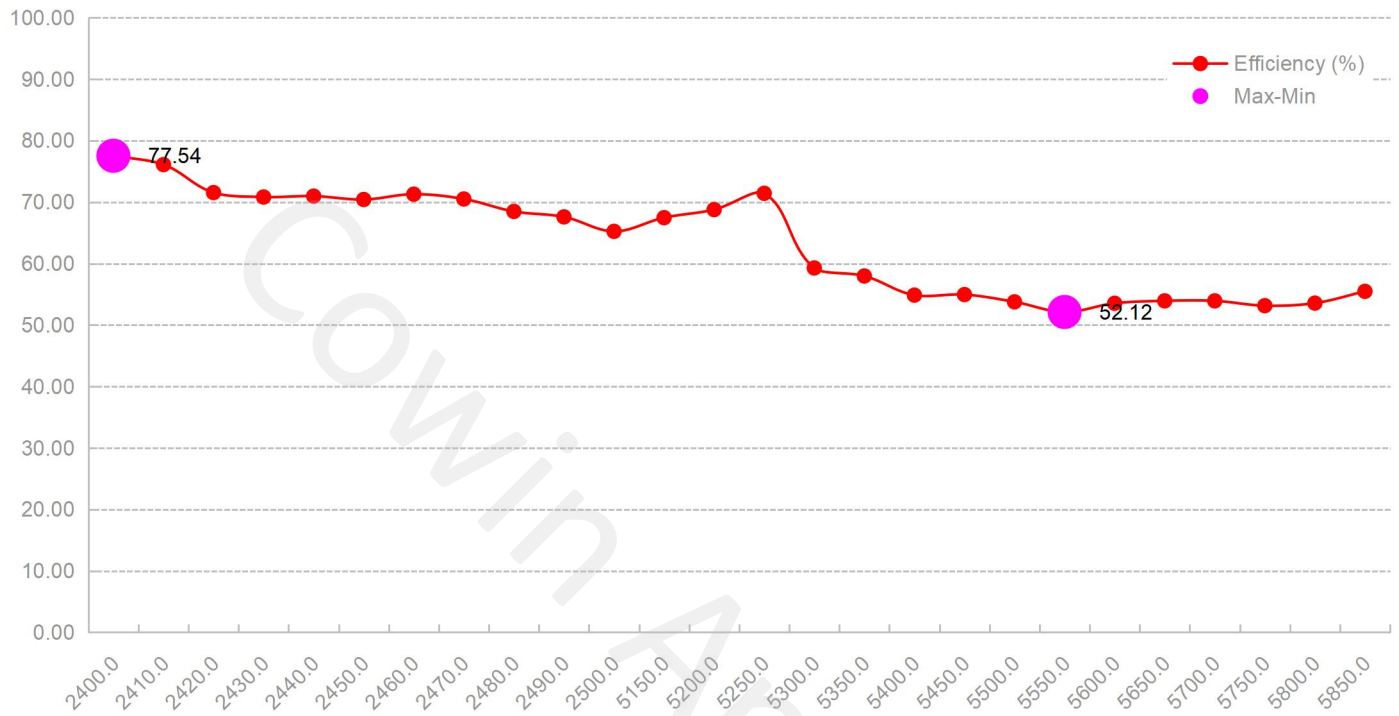


4.1 VSWR

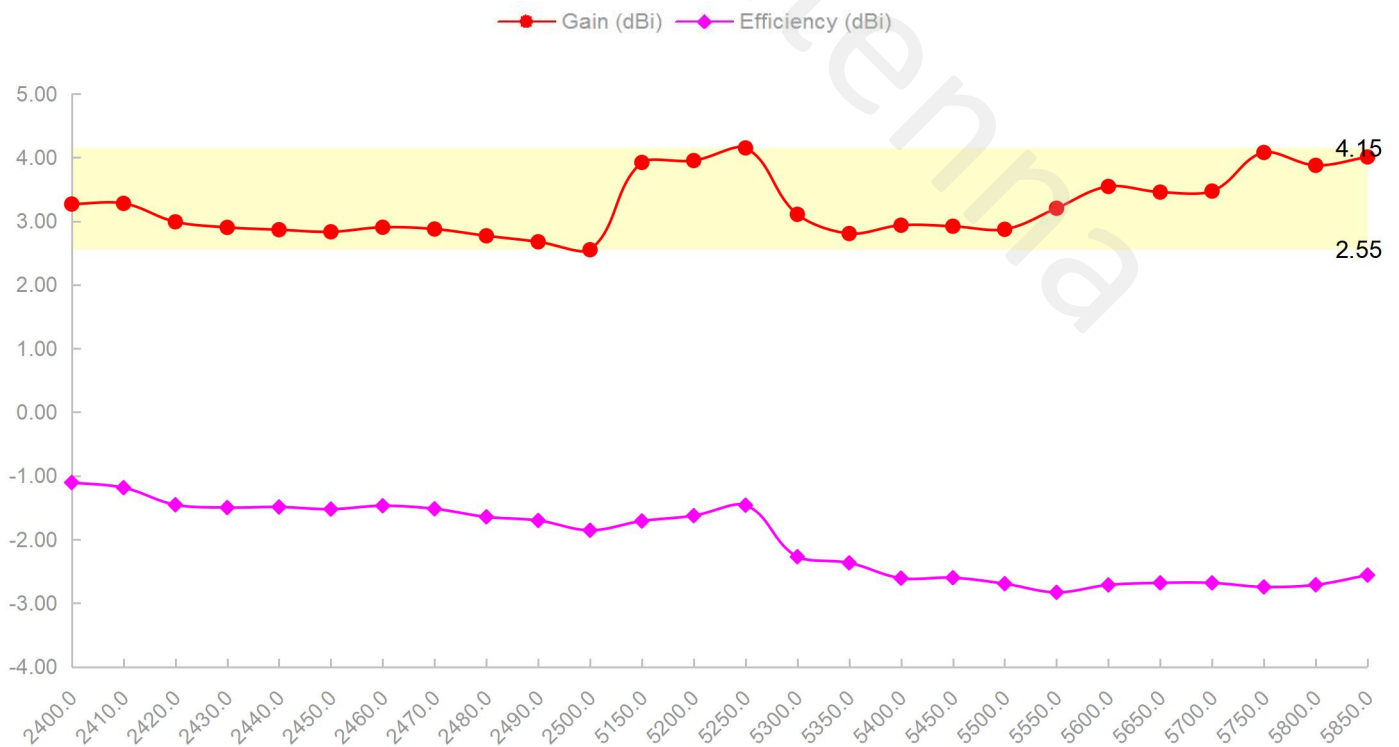


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4.2 Efficiency



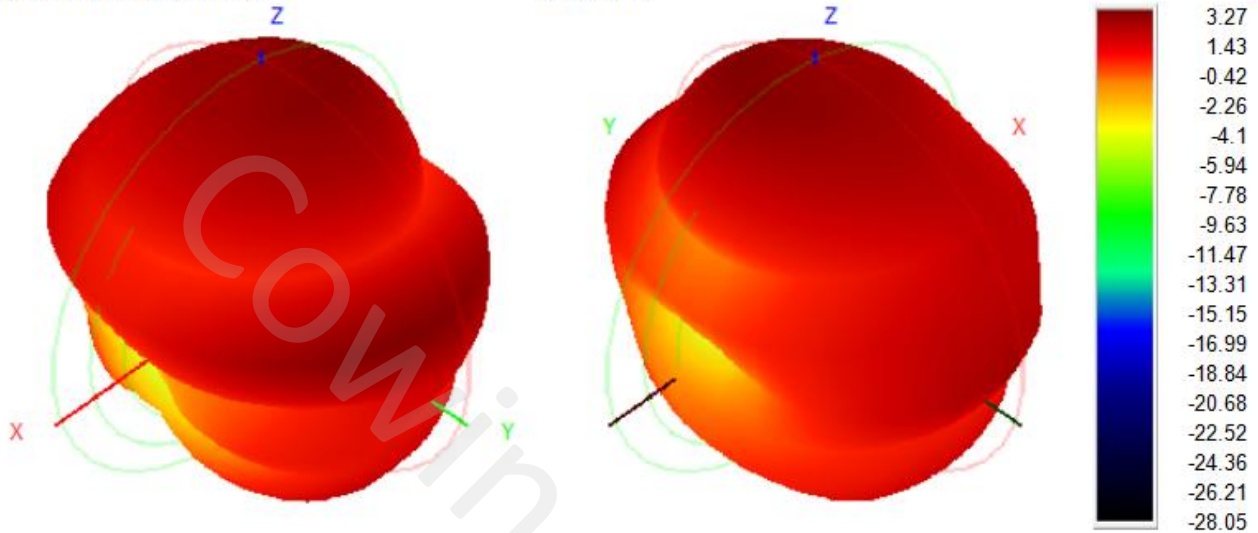
4.3 Peak gain



4.4 3D&2D Radiation Patterns

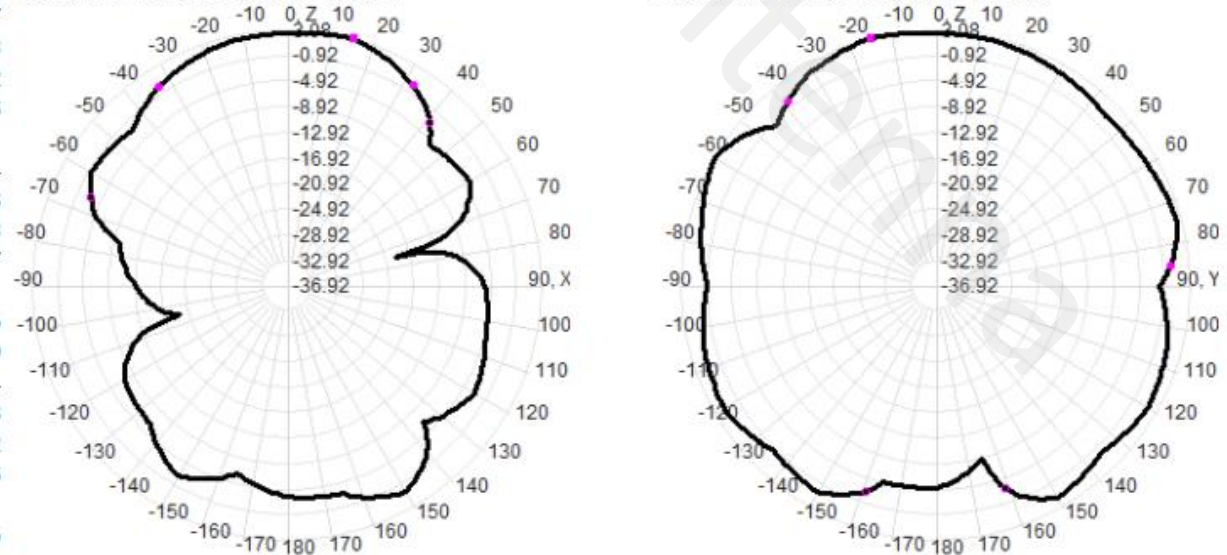
2400.0MHz H+V, Eff. 77.5%

Back View

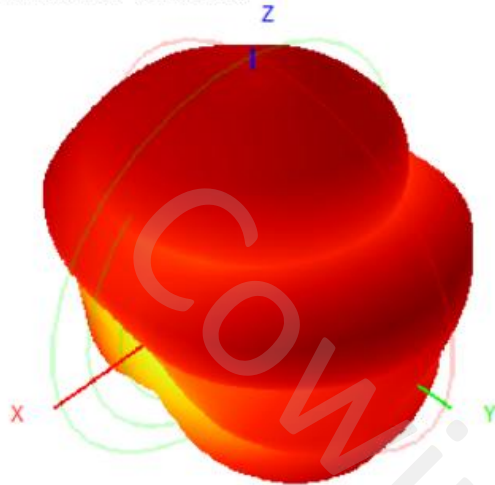


2400.0MHz Total(E1-XZ), Max= 3.03dBi

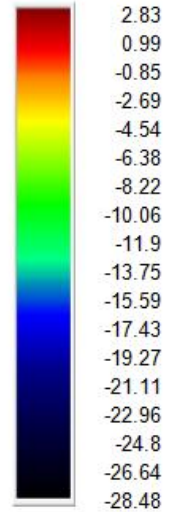
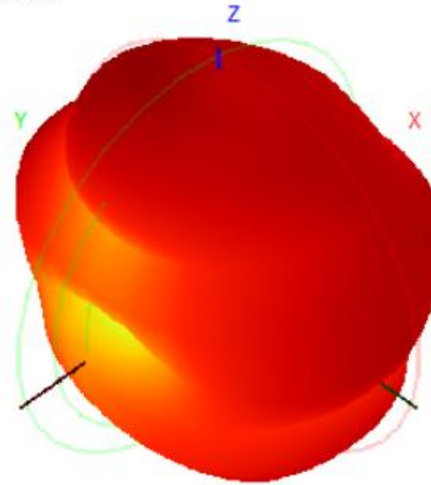
2400.0MHz Total(E2-YZ), Max= 3.08dBi



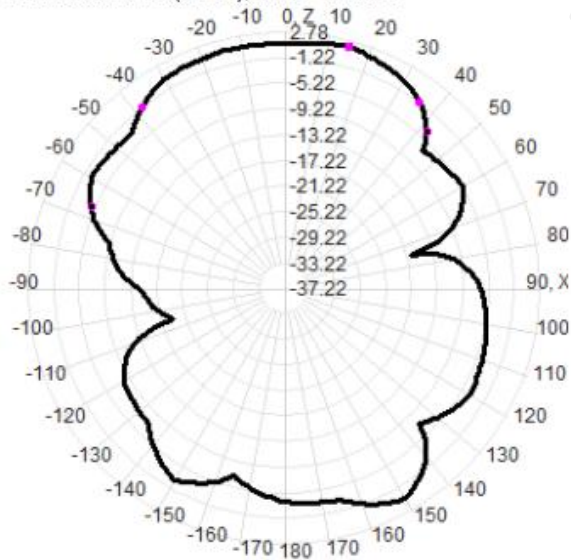
2450.0MHz H+V, Eff. 70.4%



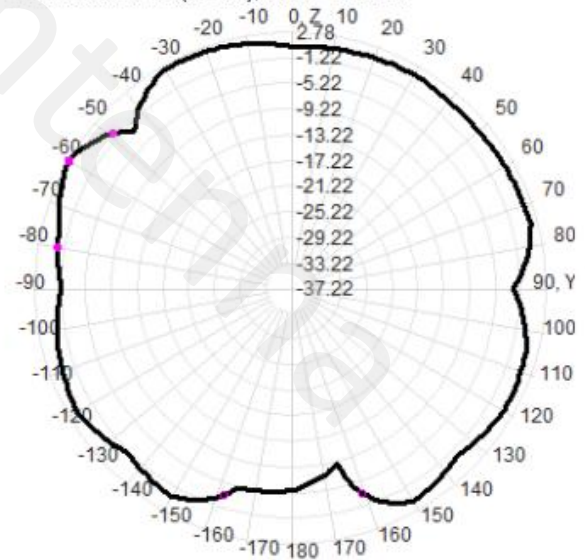
Back View



2450.0MHz Total(E1-XZ), Max= 1.78dBi

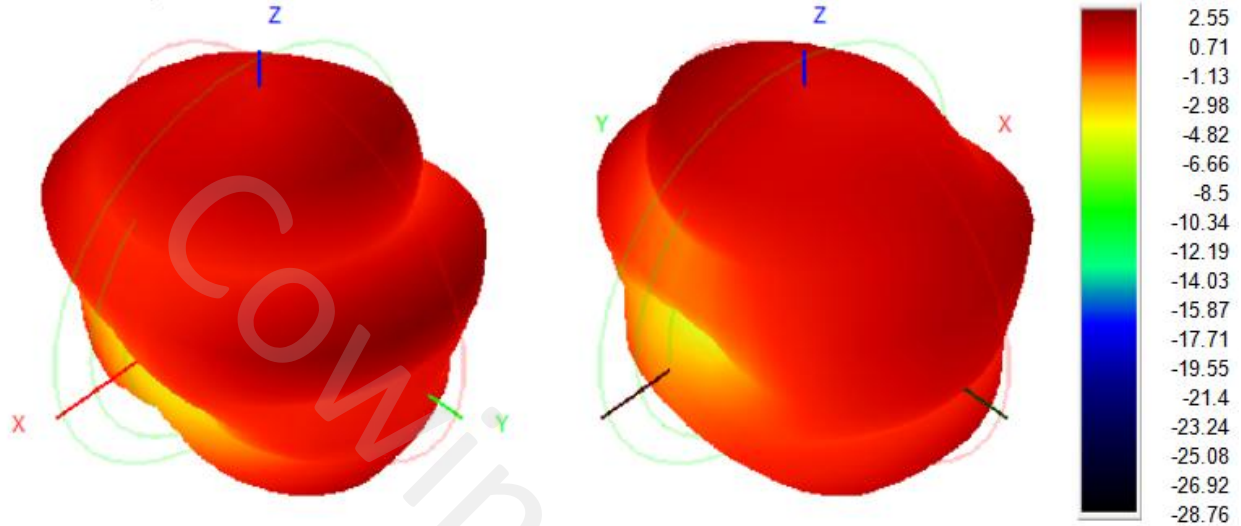


2450.0MHz Total(E2-YZ), Max= 2.78dBi



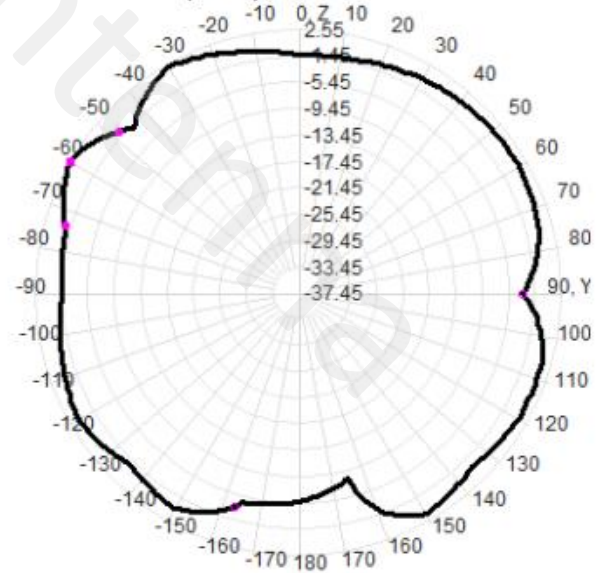
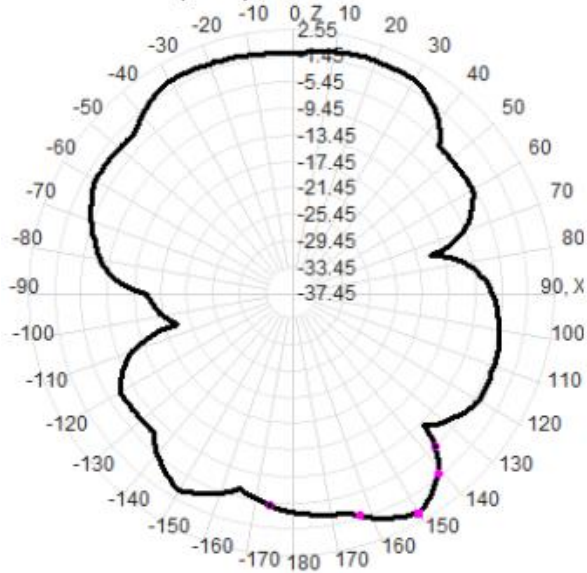
2500.0MHz H+V, Eff. 65.2%

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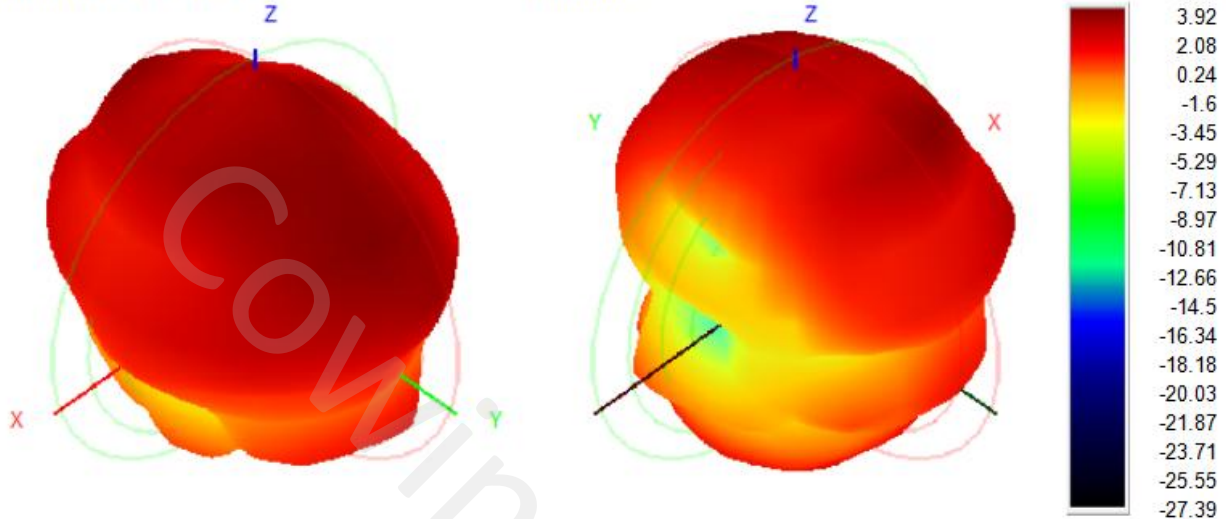
2500.0MHz Total(E1-XZ), Max= 1.00dBi

2500.0MHz Total(E2-YZ), Max= 2.55dBi



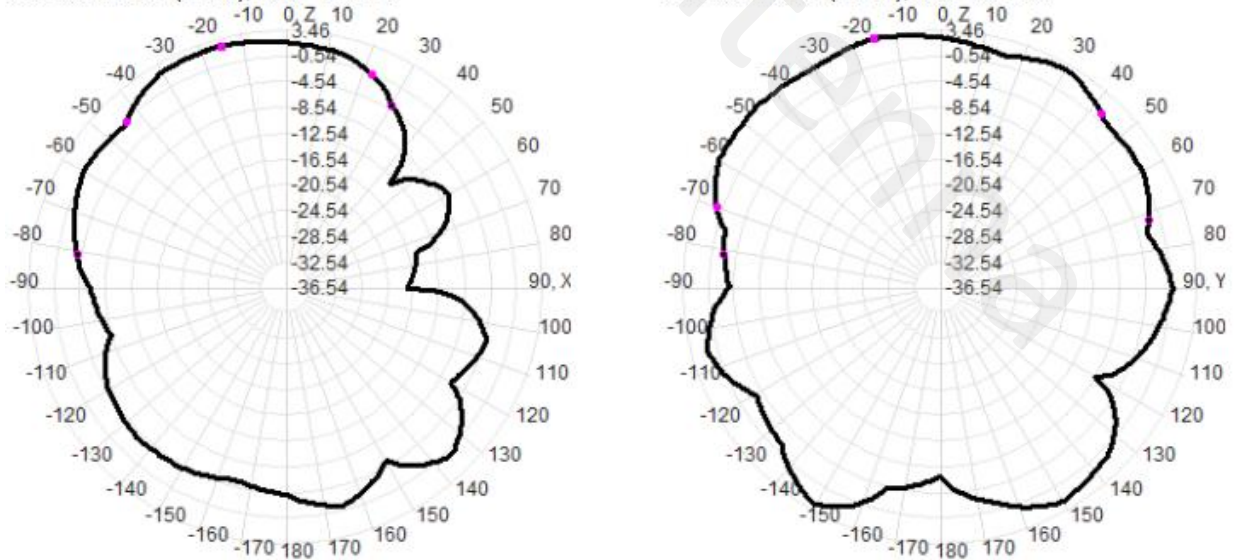
5150.0MHz H+V, Eff. 67.5%

Back View

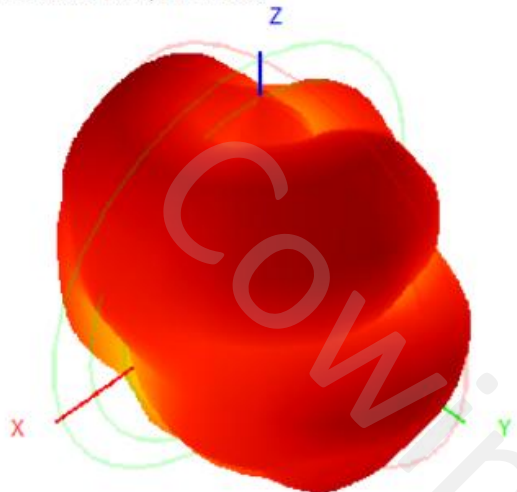


5150.0MHz Total(E1-XZ), Max= 2.31dBi

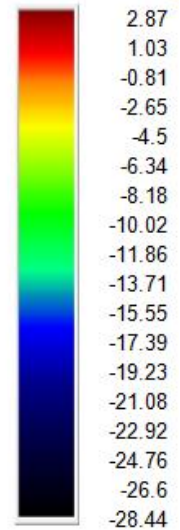
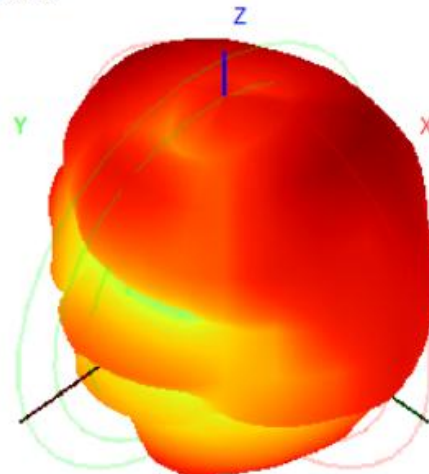
5150.0MHz Total(E2-YZ), Max= 3.46dBi



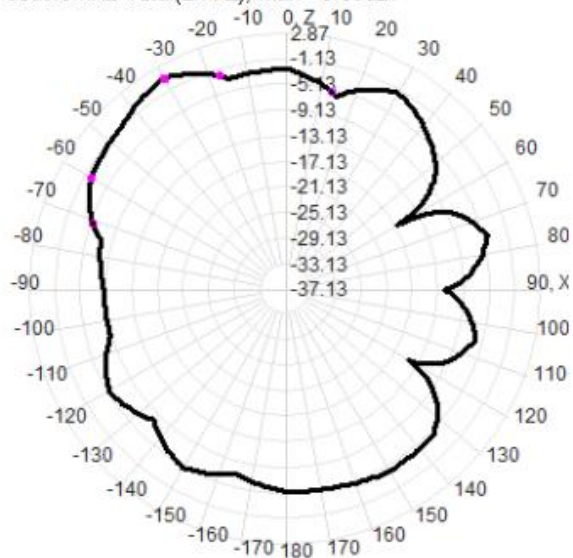
5500.0MHz H+V, Eff 53.8%



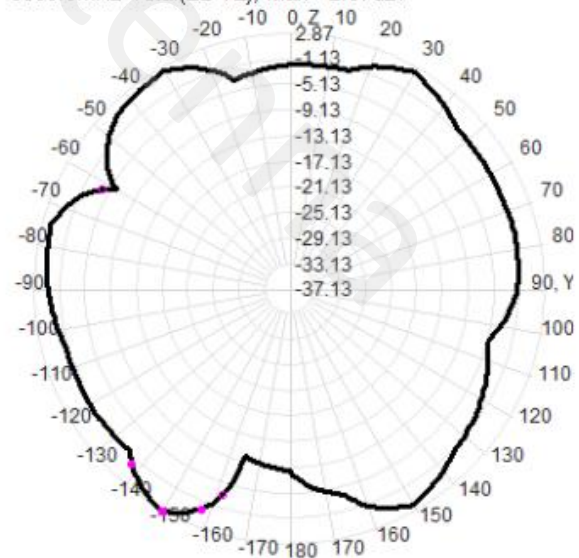
Back View



5500.0MHz Total(E1-XZ), Max= 0.86dBi

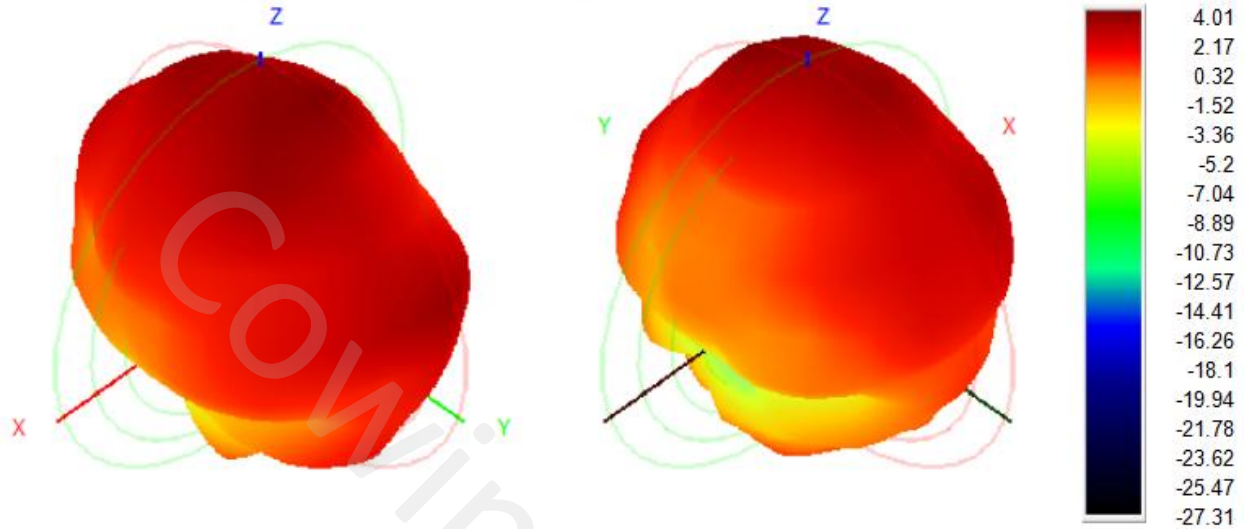


5500.0MHz Total(E2-YZ), Max= 2.87dBi



5850.0MHz H+V, Eff. 55.5%

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5850.0MHz Total(E1-XZ), Max= 3.12dBi

5850.0MHz Total(E2-YZ), Max= 4.01dBi

