

CW-NZ-0108

2.4G FPC Antenna

Key Features

Frequency:2.4-2.5G

I-PEX Connector

RG0.81 Cable

3M Adhesive

Dimensions 45*10mm



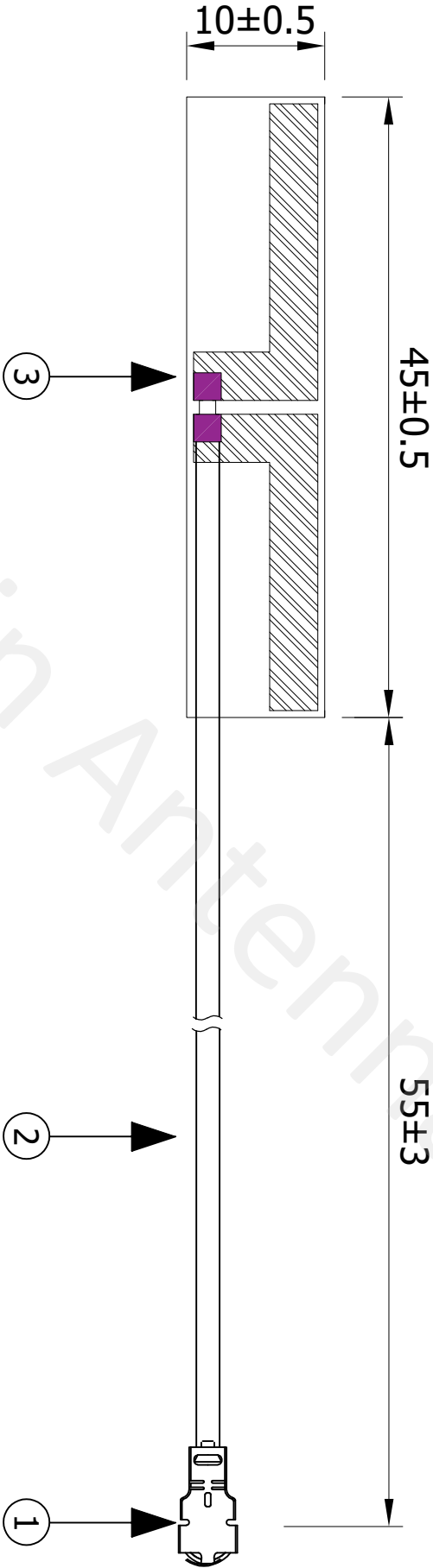
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2.0
Efficiency (%)	66.53%
Peak Gain (dBi)	1.56
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/FPC
Cable Type	RG1.13
Connector Type	I-PEX
Dimensions (mm)	45*10MM
Antenna color	N/A
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2022/07/01	New issue



Specification(Matching test):
Frequency Range:2.4-2.5G
Impedance: 50Ω
V.S.W.R: ≤2.0
100% Continuity,short and open circuit test
Materials,parts and process must by environmentally (ROHS)

3	FPC	45*10*0.1mm Black	1	
2	Cable	Φ 0.81mm Black Single Silver Wire	1	
1	Connector	Φ0.81 I-PEX III	1	
NO	Name	Description	Q'TY	Remark
XX.	±5.0	Approved		
X.	±3.0	Customer		
.X	±1.0	Part NO.		
.XX	±0.2	Part name		FPC Antenna
.XXX	±0.1	CW P/NO.		CW-NZ-0108
⊕		REV	Unit	File
		X1	m/m	Sheet:
				1/1



Cowin Antenna

4. Antenna test parameters

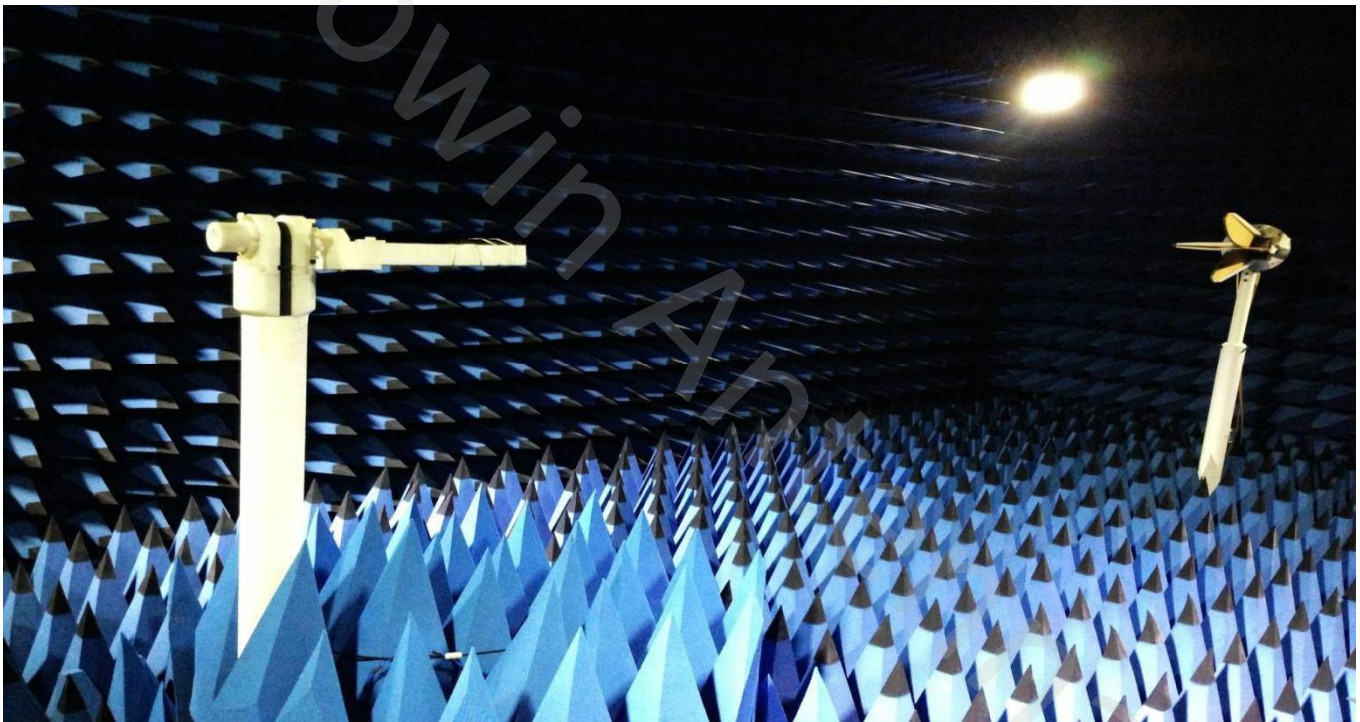
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

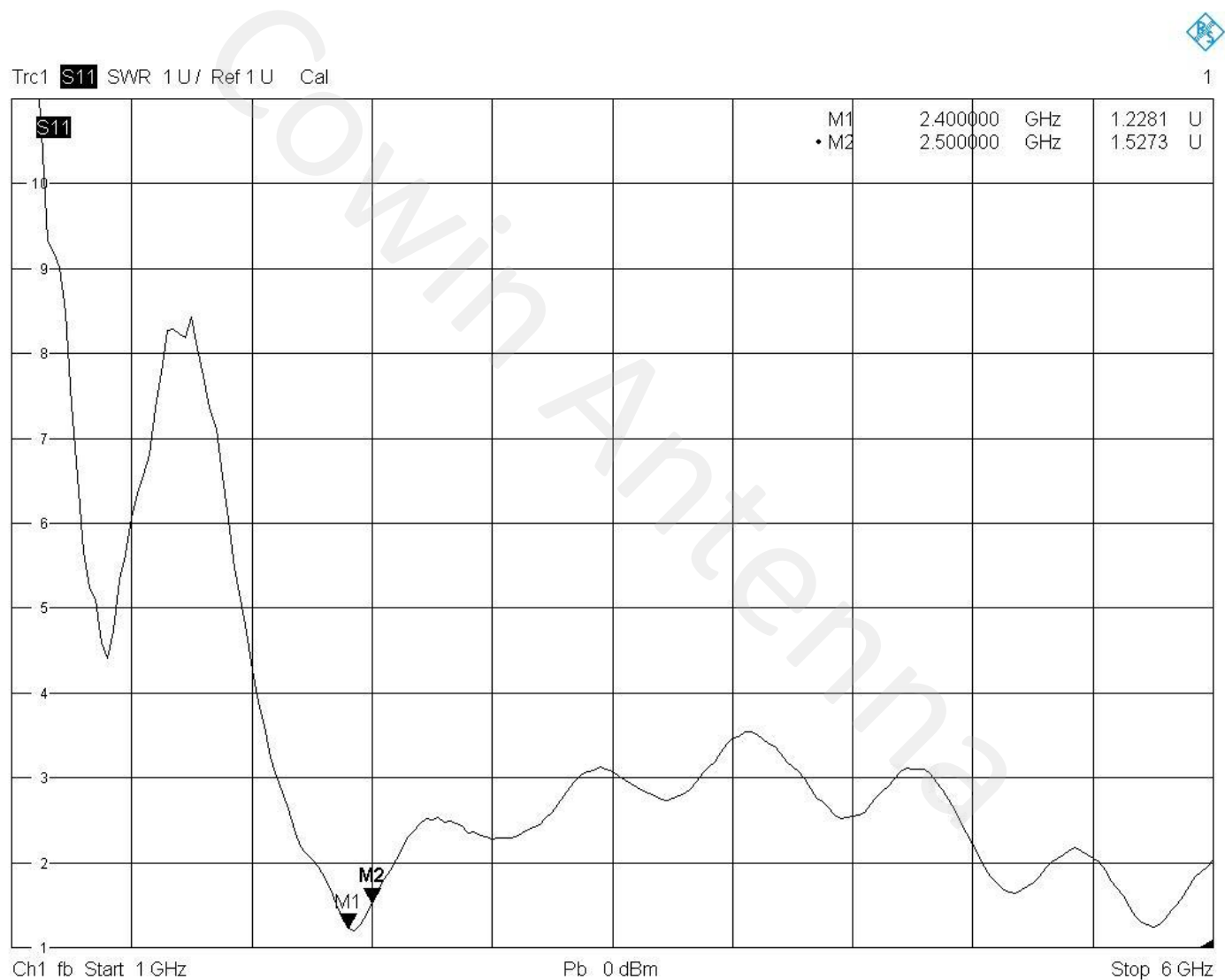
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

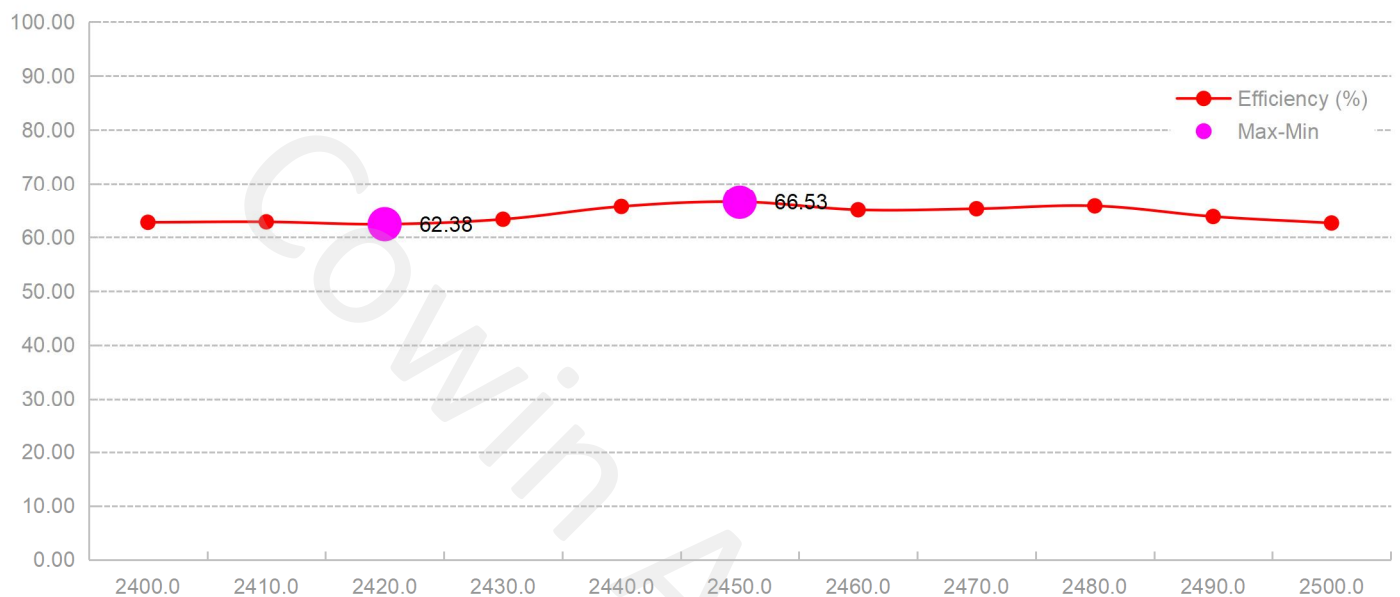


4.1 VSWR

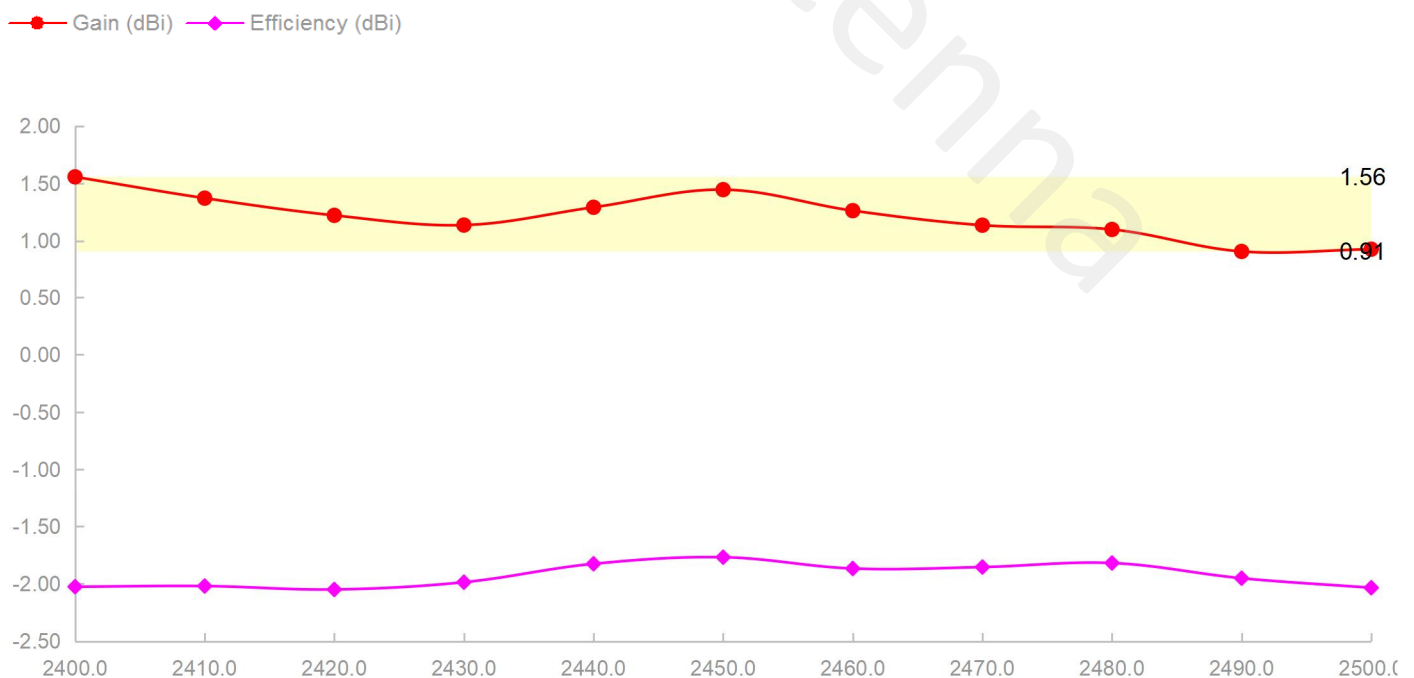


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4.2 Efficiency



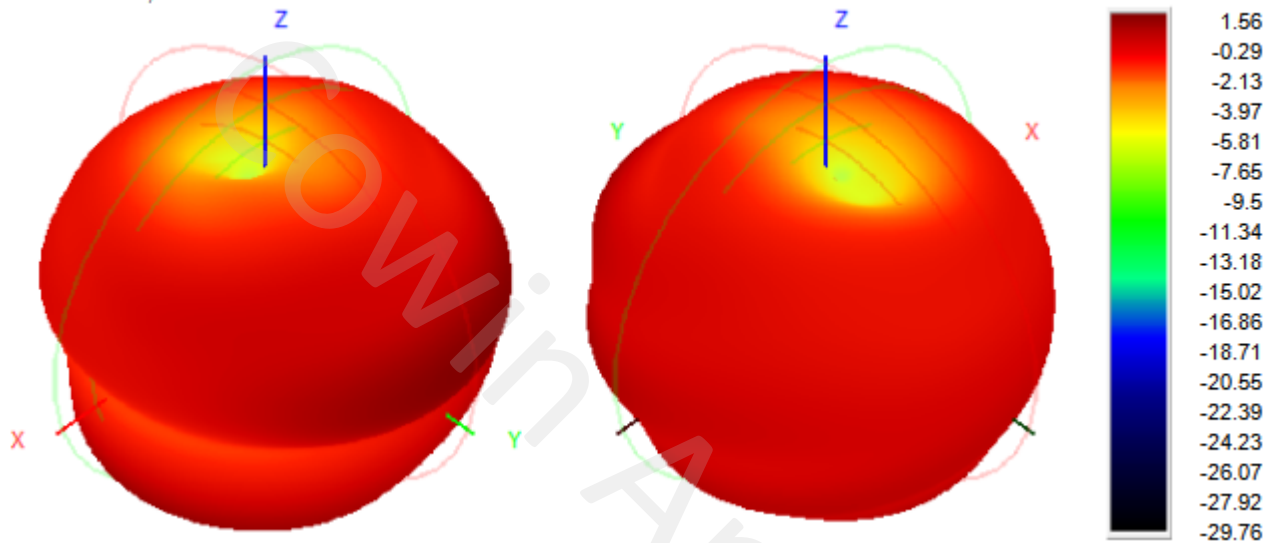
4.3 Peak gain



4.4 3D&2D Radiation Patterns

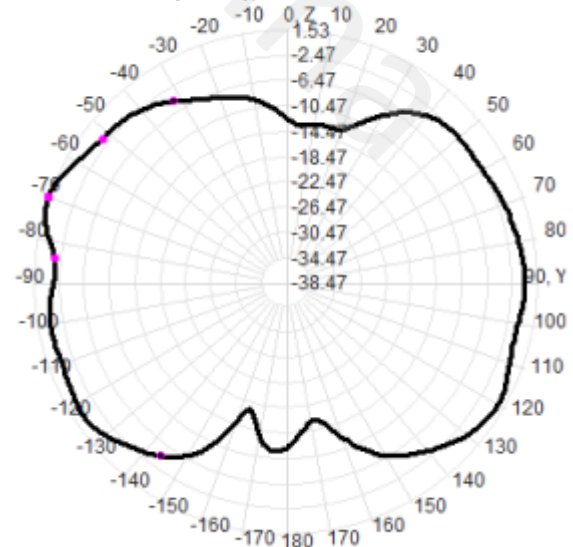
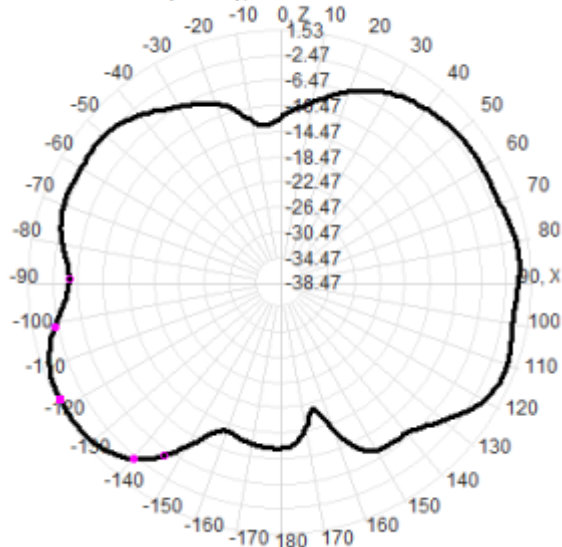
2400.0MHz H+V, Eff: 62.7%

Back View



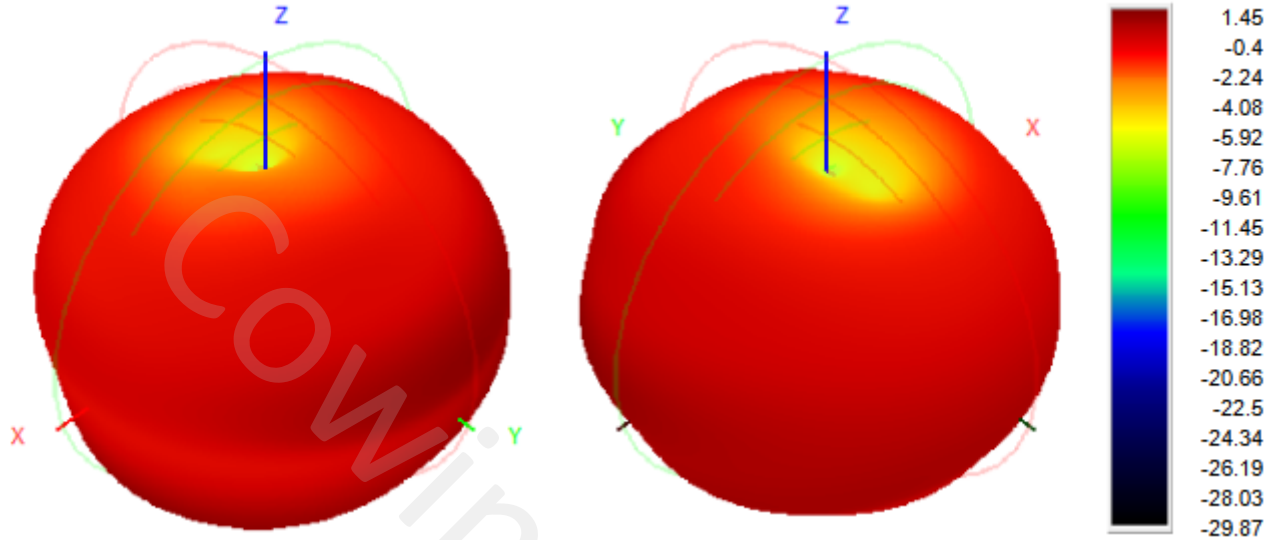
2400.0MHz Total(E1-XZ), Max= 0.96dBi

2400.0MHz Total(E2-YZ), Max= 1.53dBi

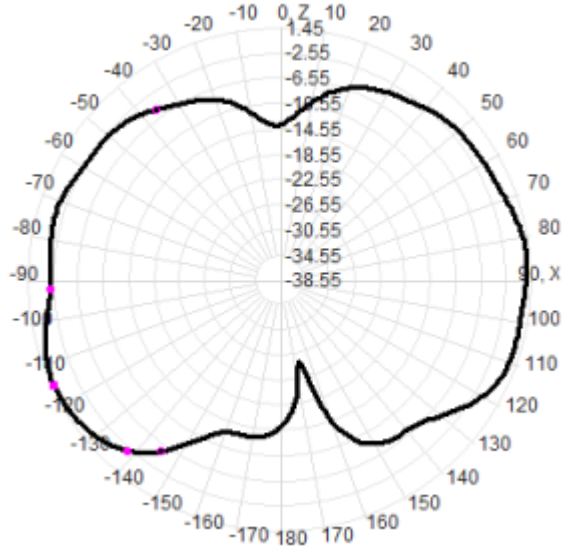


2450.0MHz H+V, Eff: 66.5%

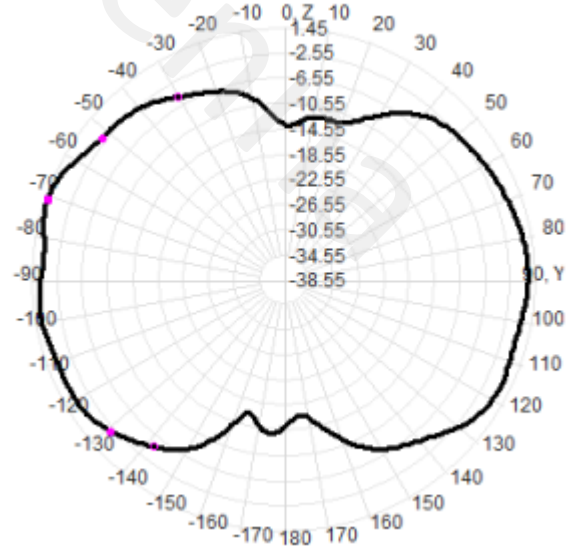
Back View



2450.0MHz Total(E1-XZ), Max= 0.92dBi

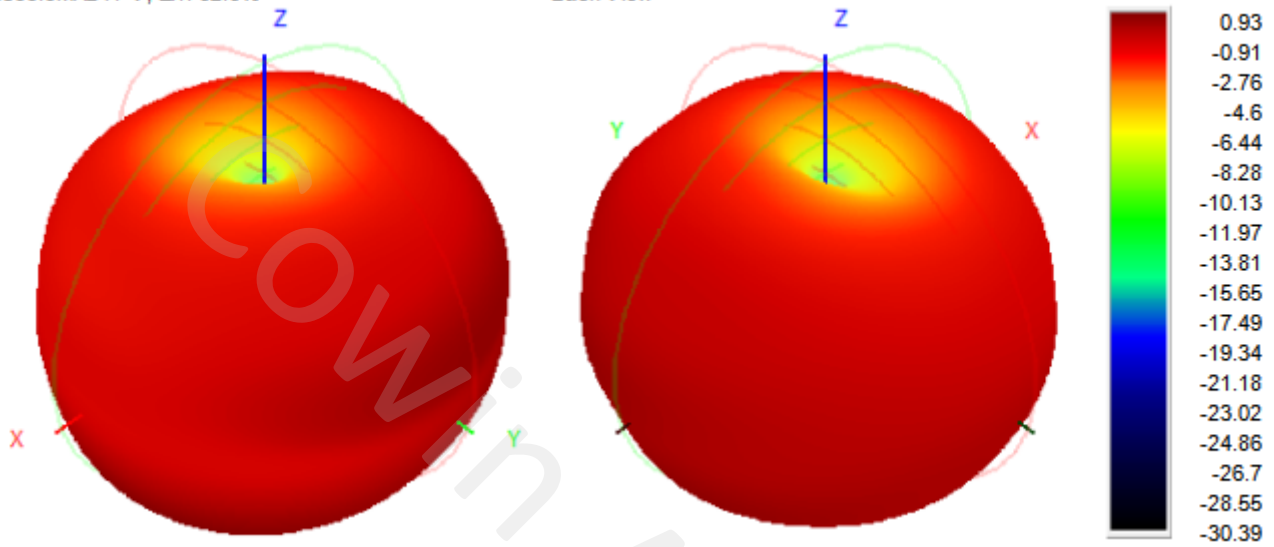


2450.0MHz Total(E2-YZ), Max= 1.04dBi



2500.0MHz H+V, Eff: 62.6%

Back View



2500.0MHz Total(E1-XZ), Max= 0.83dBi

2500.0MHz Total(E2-YZ), Max= 0.31dBi

