

CW-NZ-0178

730MHZ-6.5G Log-periodic Antenna

Key Features

Frequency:730MHz-6.5G

SMA Connector

Dimensions:235*176*1.6mm

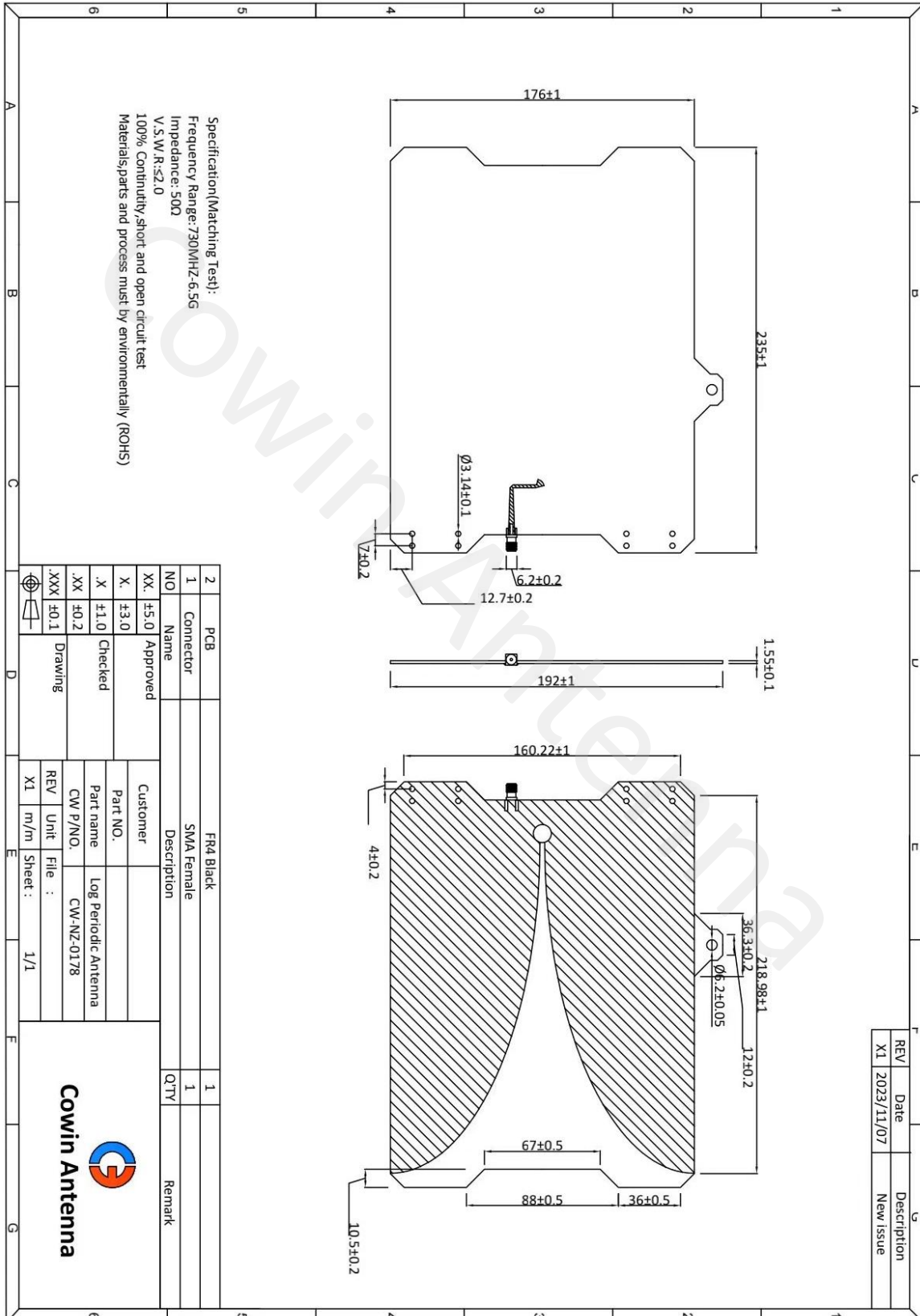


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	730MHz-6.5G
VSWR	≤2
Efficiency (%)	99.17%
Peak Gain (dBi)	10.22
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA

2. Material and environmental characteristics

External structure	N/A
Inner structure	PCB
Cable Type	N/A
Connector Type	SMA
Dimensions (mm)	235*176*1.6MM
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

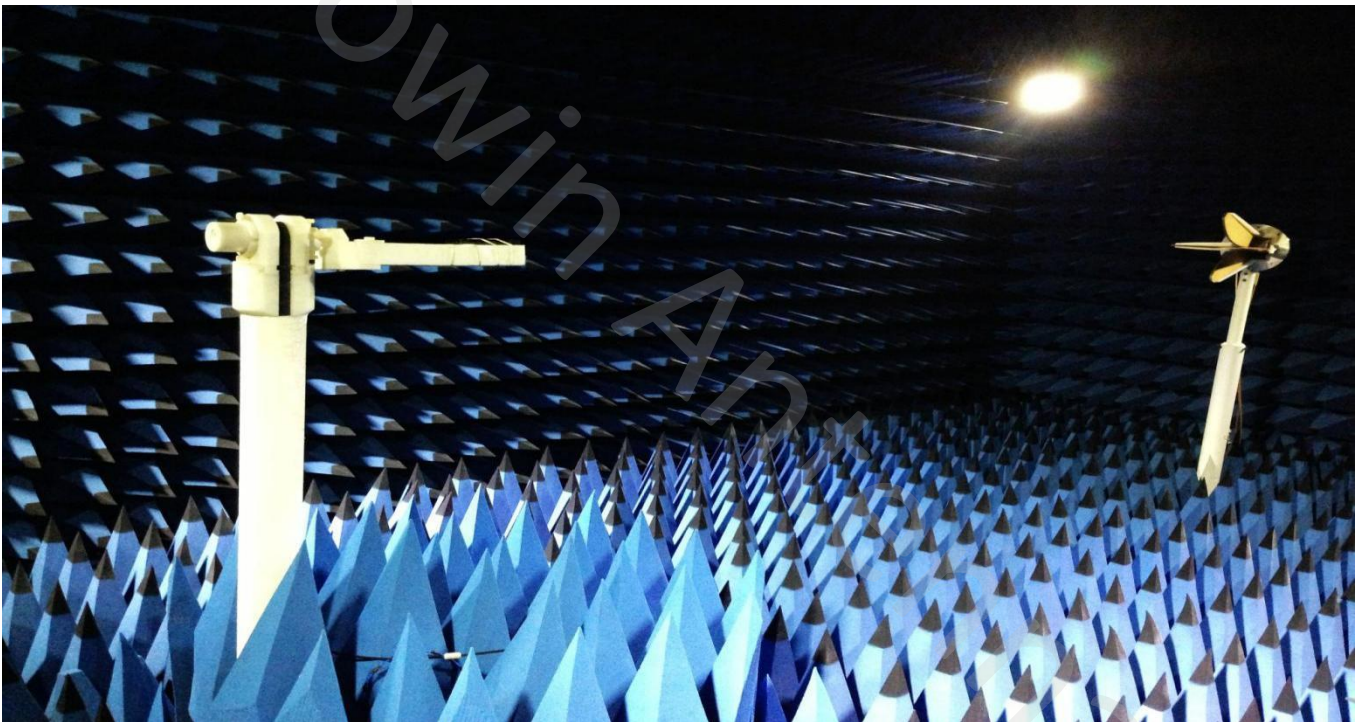
Antenna Measurement Conditions:

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

Trc1 **S11** SWR 1 U/ Ref 1 U Cal

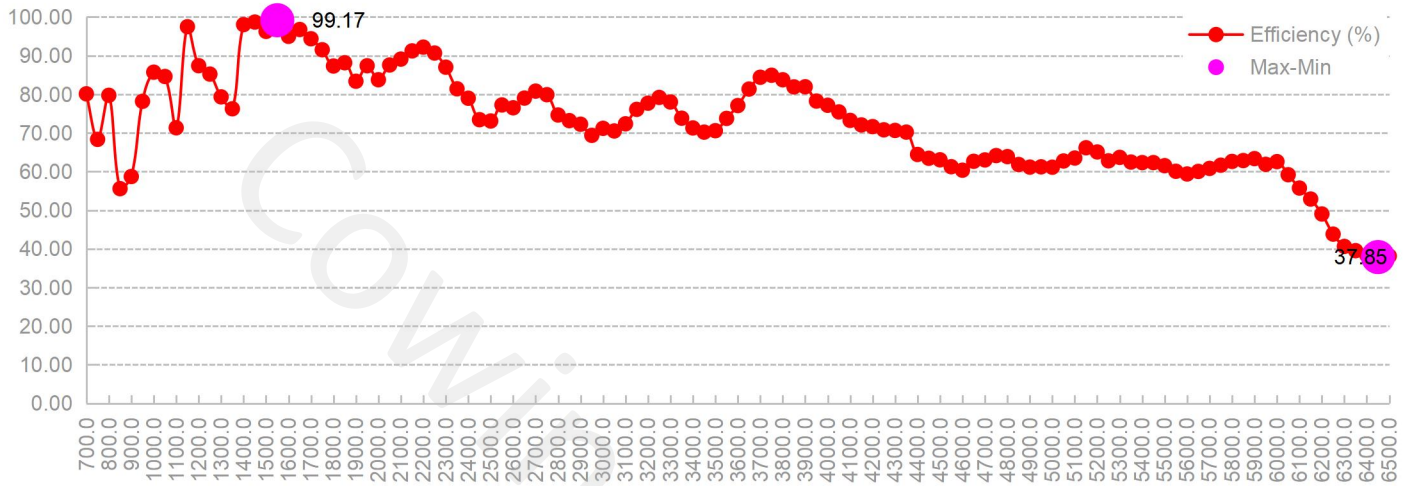


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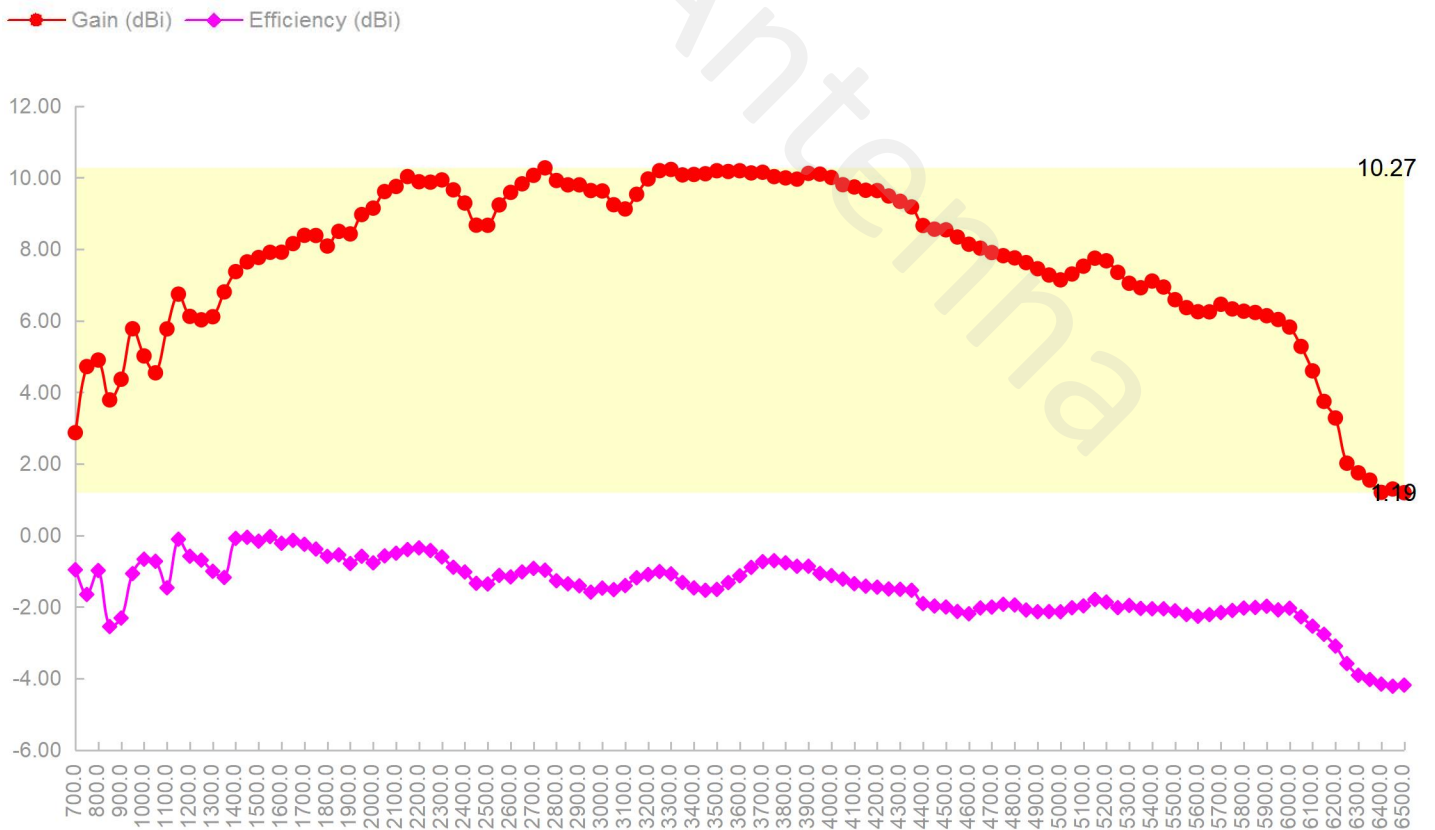


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4.2 Efficiency



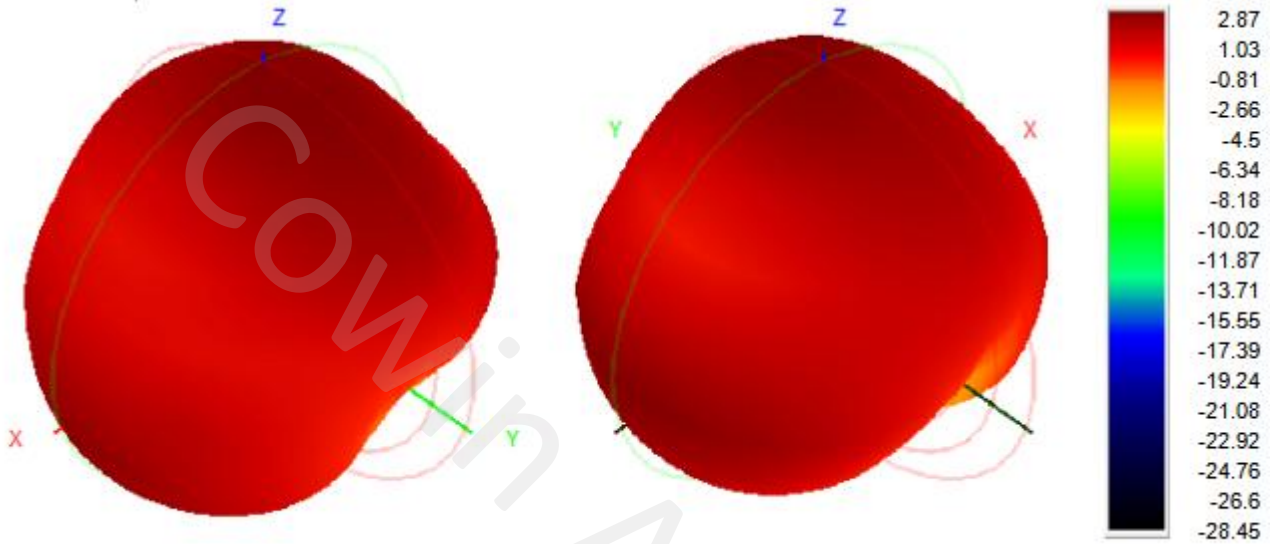
4.3 Peak gain



4.4 3D&2D Radiation Patterns

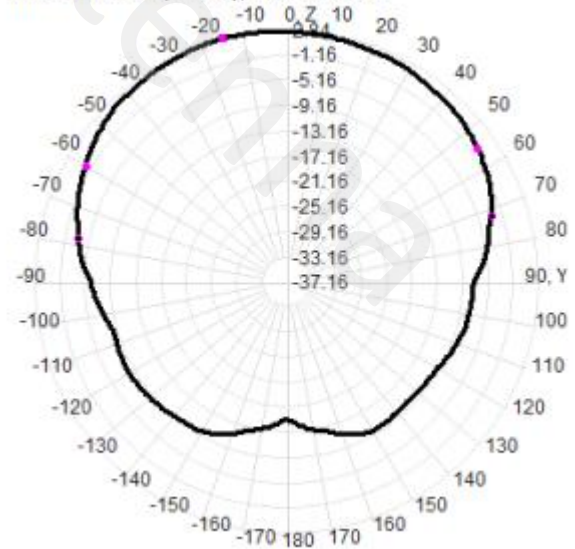
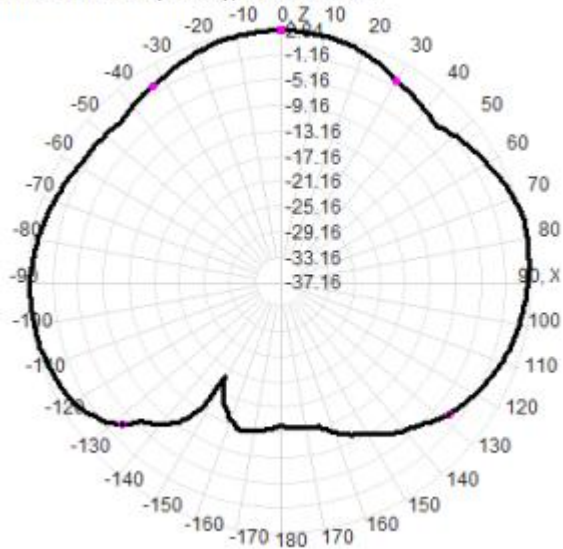
700.0MHz H+V, Eff: 80.1%

Back View



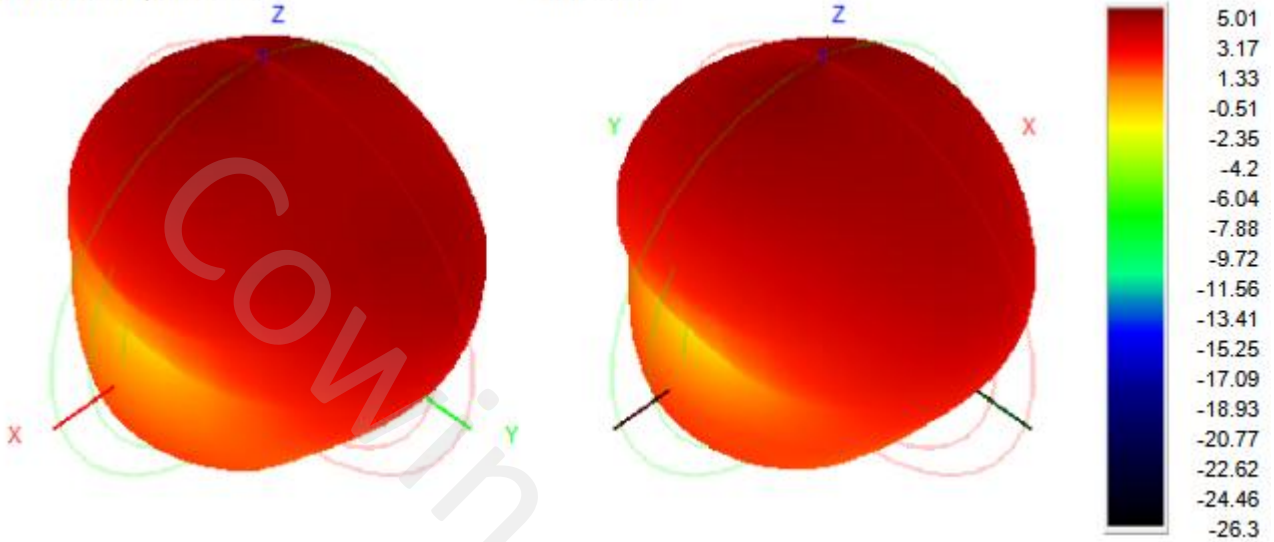
700.0MHz Total(E1-XZ), Max= 2.84dBi

700.0MHz Total(E2-YZ), Max= 2.76dBi



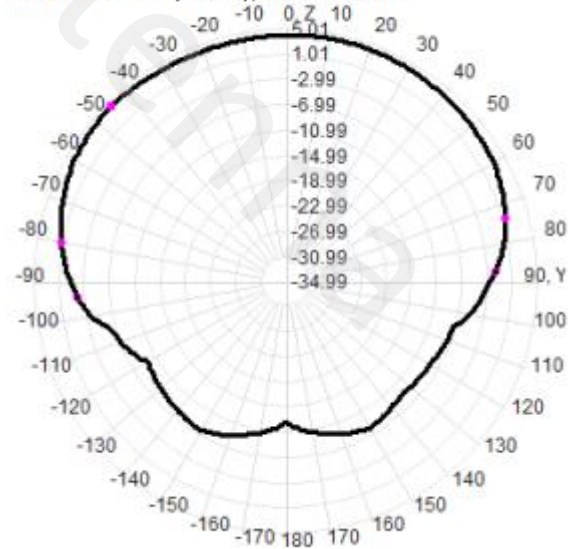
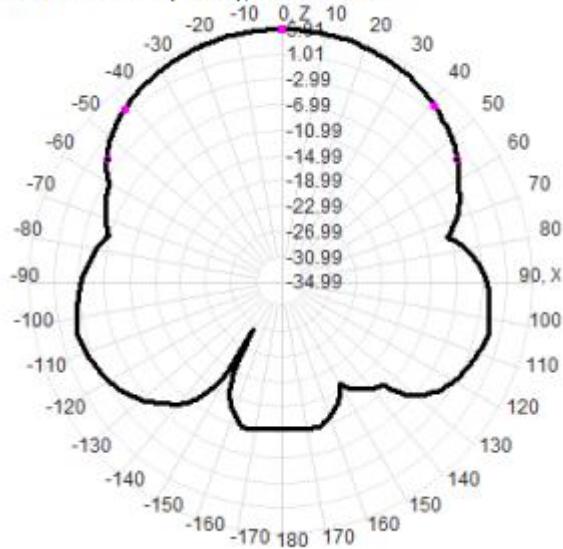
1000.0MHz H+V, Eff: 85.7%

Back View

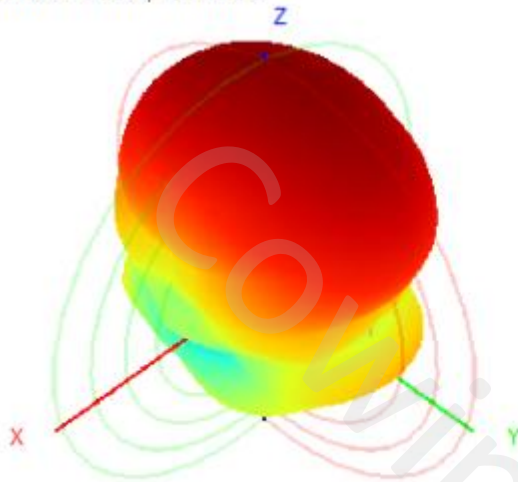


1000.0MHz Total(E1-XZ), Max= 5.01 dBi

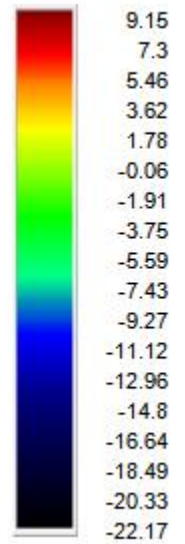
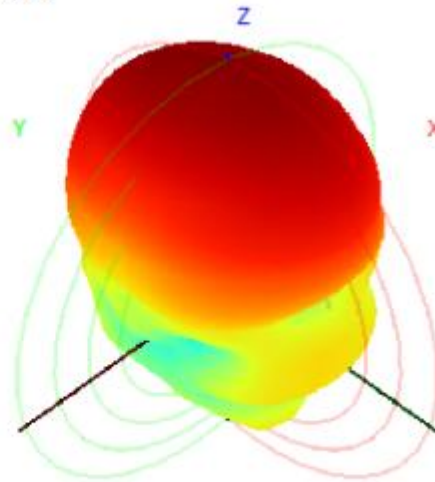
1000.0MHz Total(E2-YZ), Max= 4.19dBi



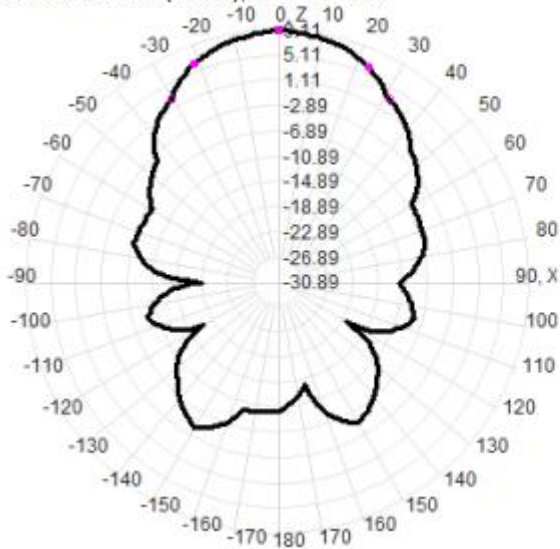
2000.0MHz H+V, Eff: 83.8%



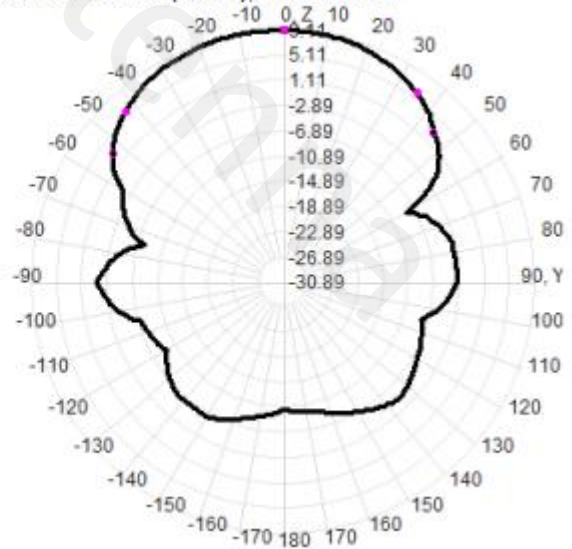
Back View



2000.0MHz Total(E1-XZ), Max= 9.11dBi

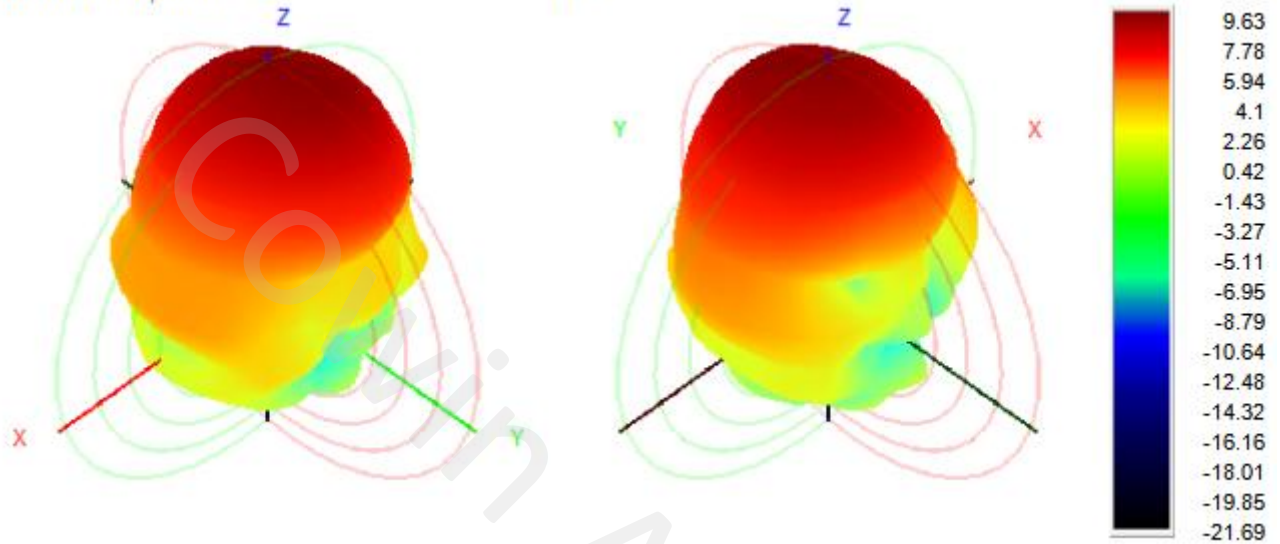


2000.0MHz Total(E2-YZ), Max= 9.07dBi

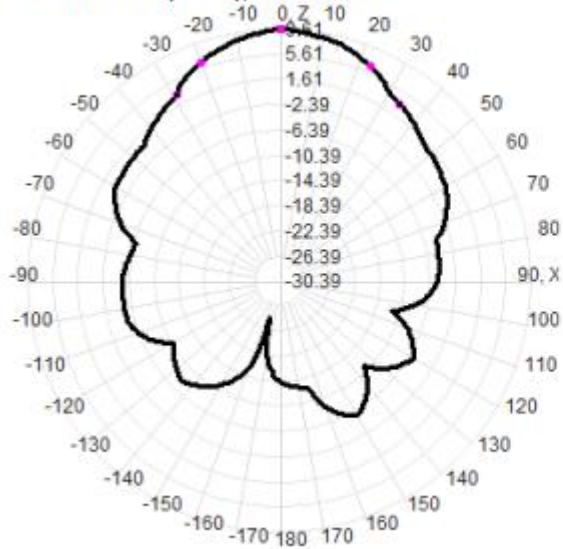


3000.0MHz H+V, Eff: 71.2%

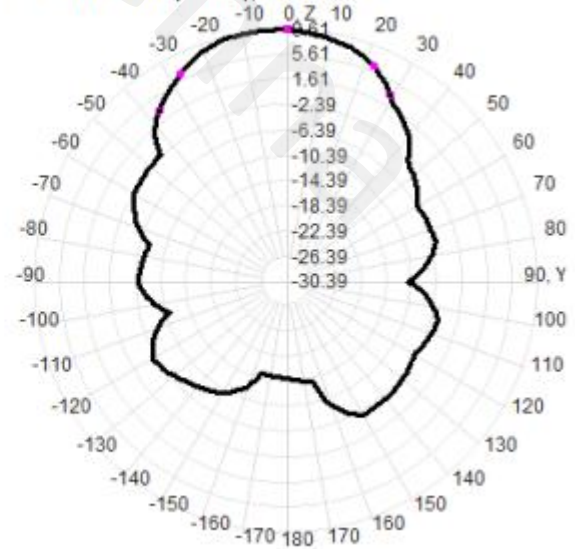
Back View



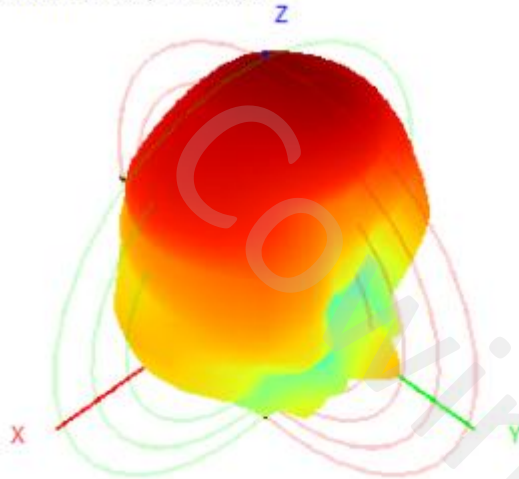
3000.0MHz Total(E1-XZ), Max= 9.61dBi



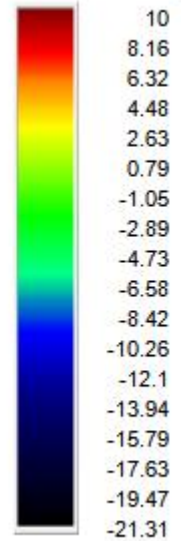
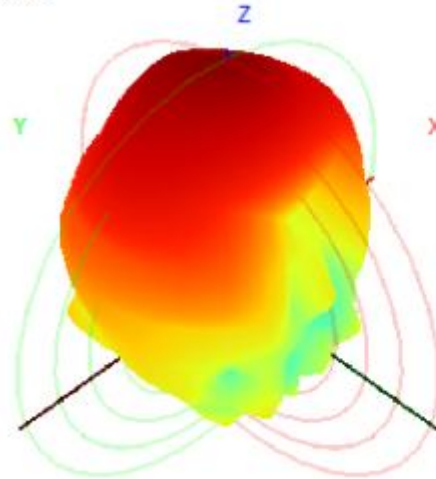
3000.0MHz Total(E2-YZ), Max= 9.54dBi



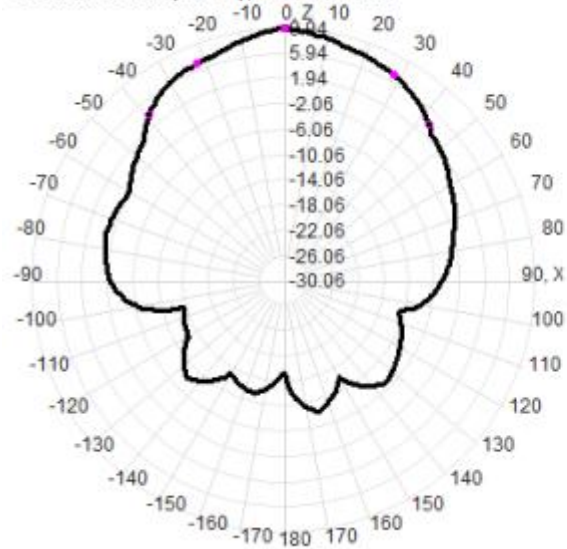
4000.0MHz H+V, Eff: 77.2%



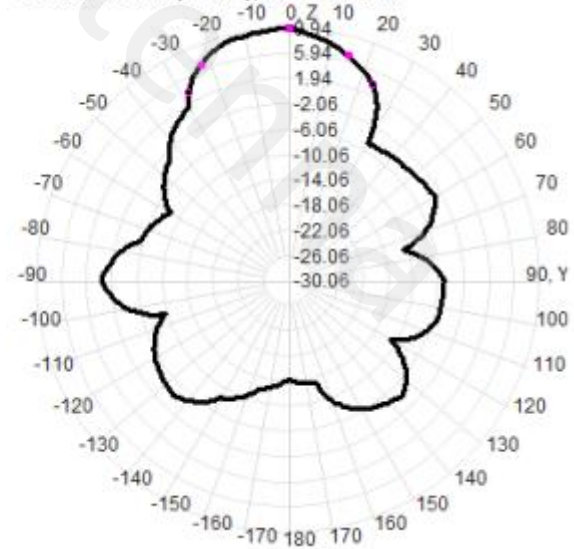
Back View



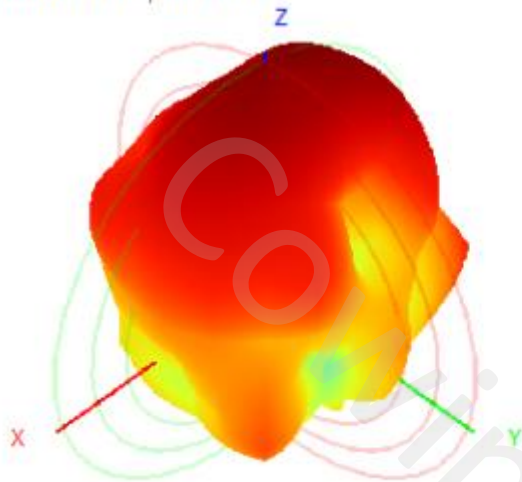
4000.0MHz Total(E1-XZ), Max= 9.90dBi



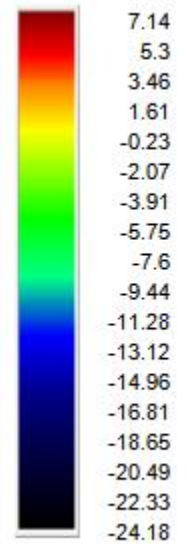
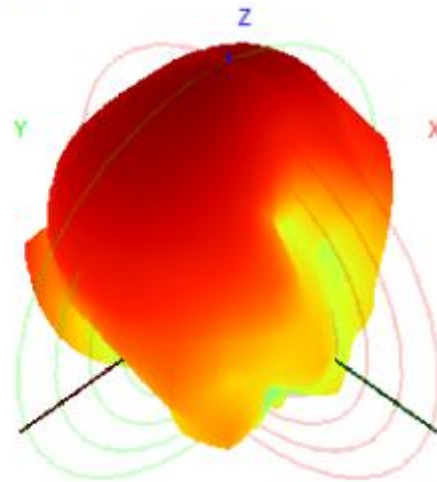
4000.0MHz Total(E2-YZ), Max= 9.94dBi



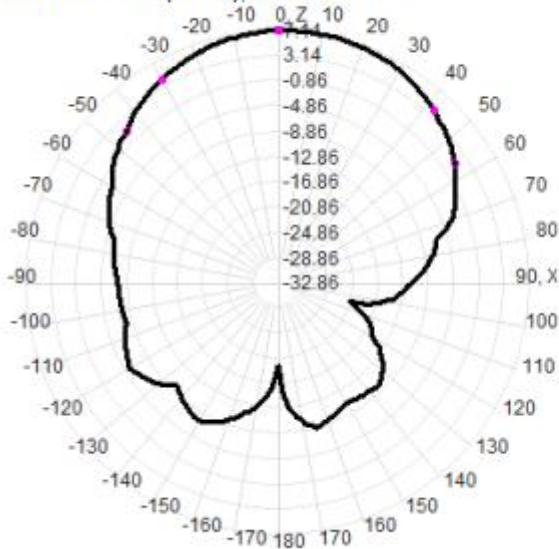
5000.0MHz H+V, Eff: 61.1%



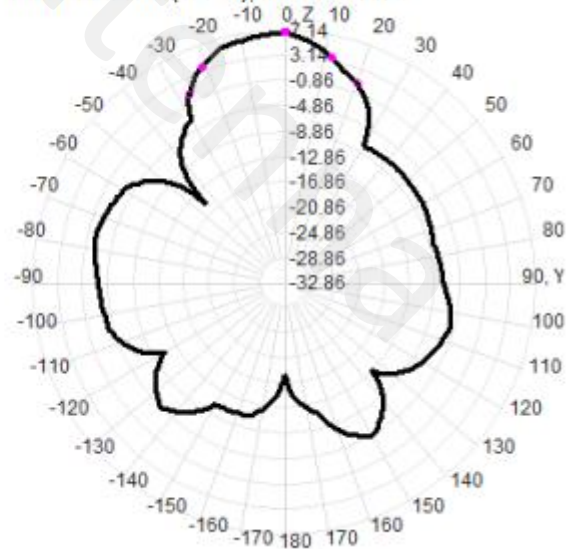
Back View



5000.0MHz Total(E1-XZ), Max= 7.14dBi

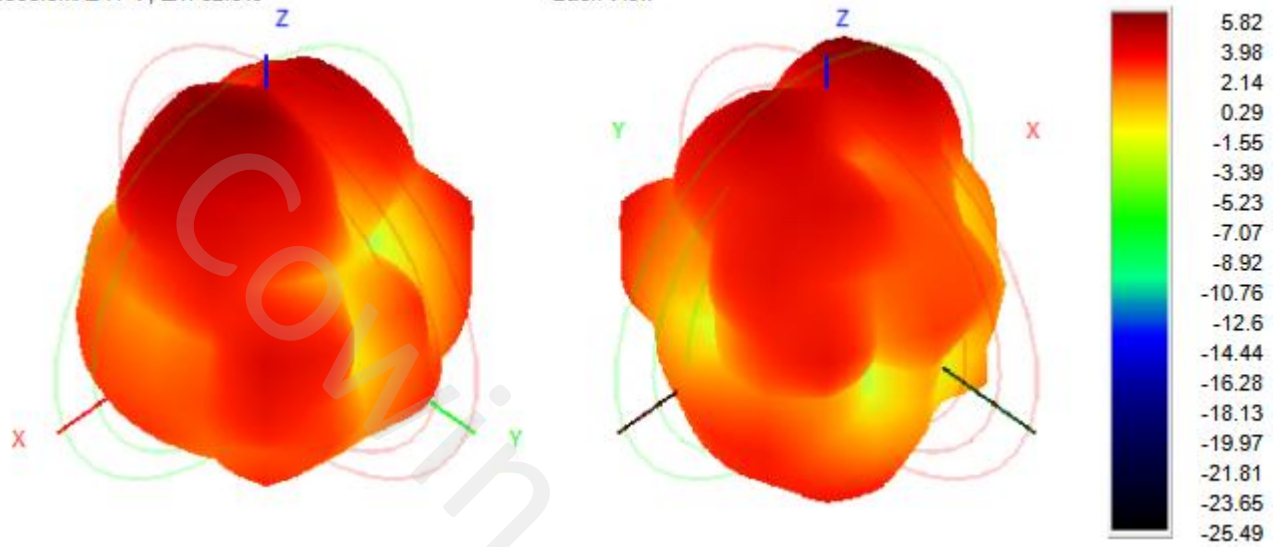


5000.0MHz Total(E2-YZ), Max= 6.76dBi



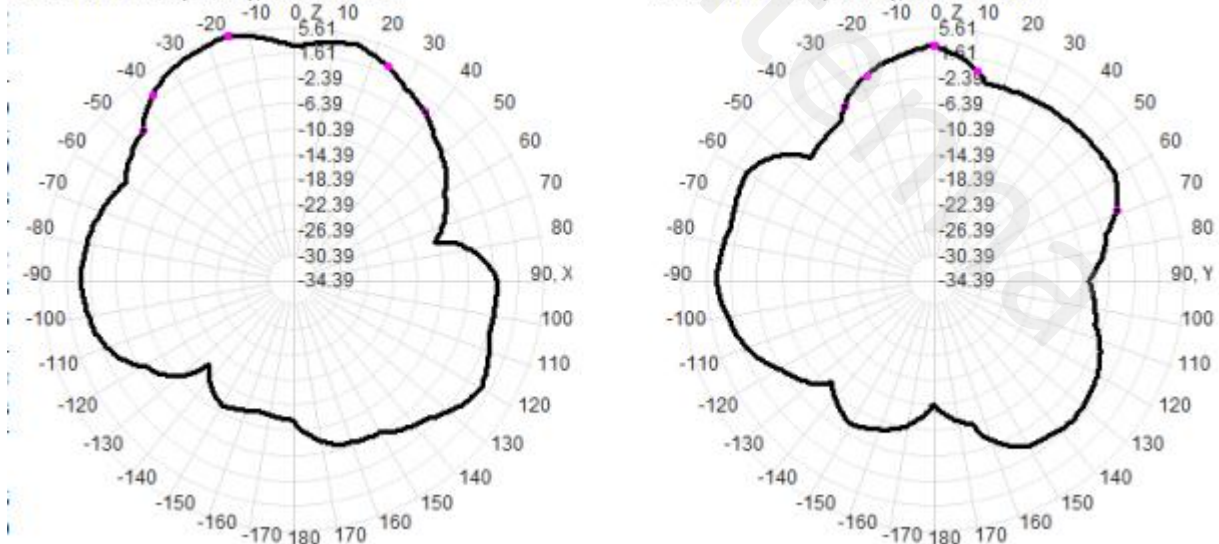
6000.0MHz H+V, Eff: 62.6%

Back View

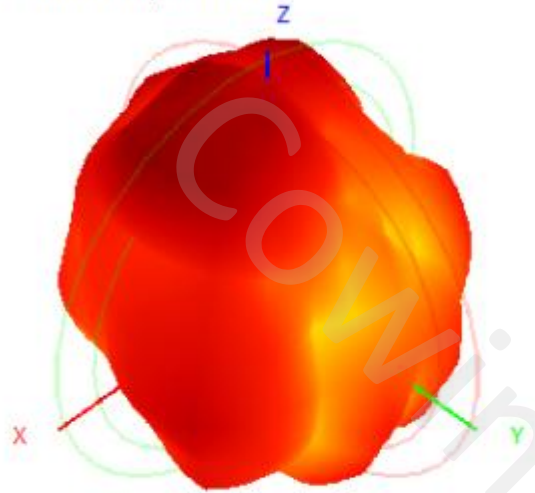


6000.0MHz Total(E1-XZ), Max= 5.61dBi

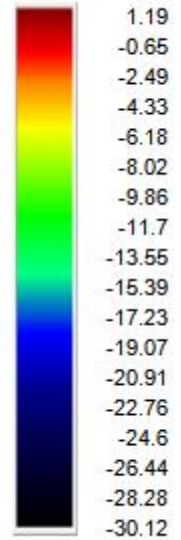
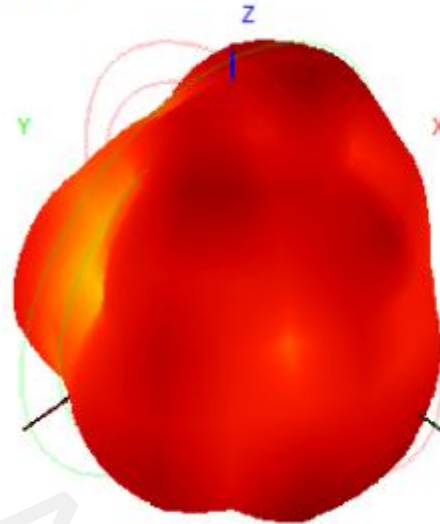
6000.0MHz Total(E2-YZ), Max= 2.80dBi



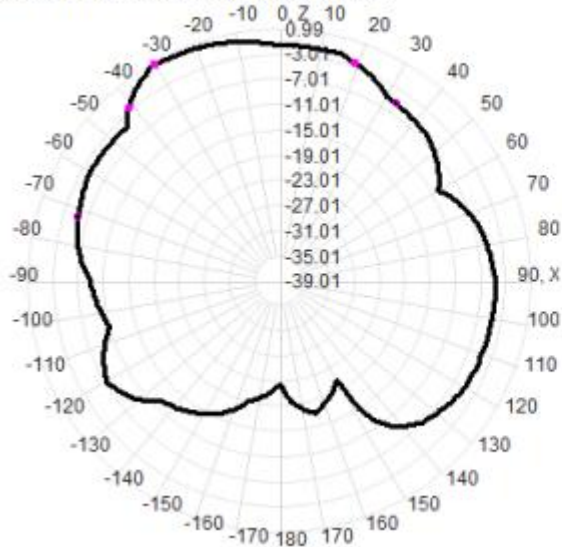
6500.0MHz H+V, Eff: 38.1%



Back View



6500.0MHz Total(E1-XZ), Max= 0.69dBi



6500.0MHz Total(E2-YZ), Max= 0.99dBi

