

CW-WZ-0184

5.3-5.9G External Antenna

Key Features

Frequency: 5300-5900MHz

MMCX 90° Male Connector

Dimensions: 205mm

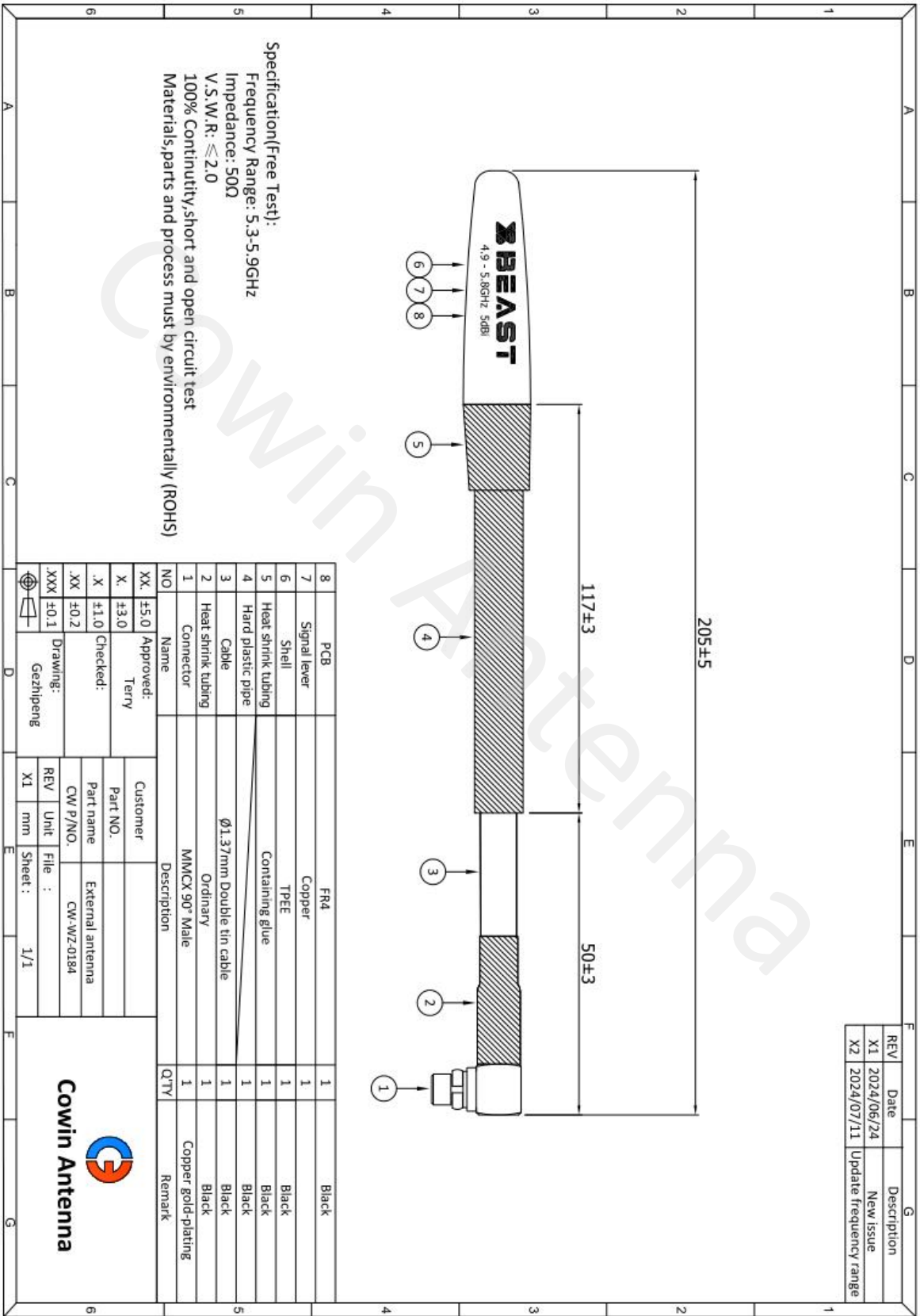


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	5300-5900
VSWR	≤2.0
Efficiency (%)	76.82
Peak Gain (dBi)	3.73
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	MMCX 90°Male

2. Material and environmental characteristics

External Structure	TPEE
Inner Structure	Signal lever+PCB
Cable Type	RF 1.37 Double tin cable
Connector Type	MMCX 90°Male
Dimensions (mm)	205
Antenna Colour	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

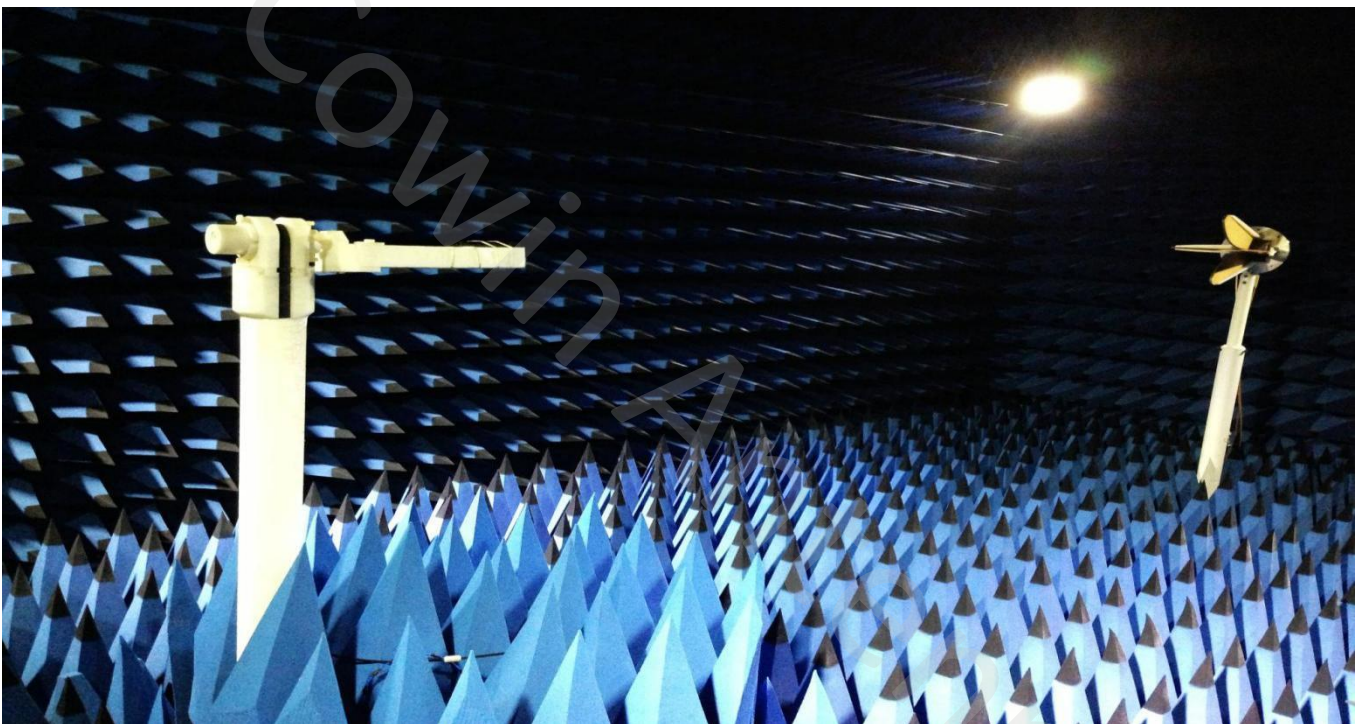
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

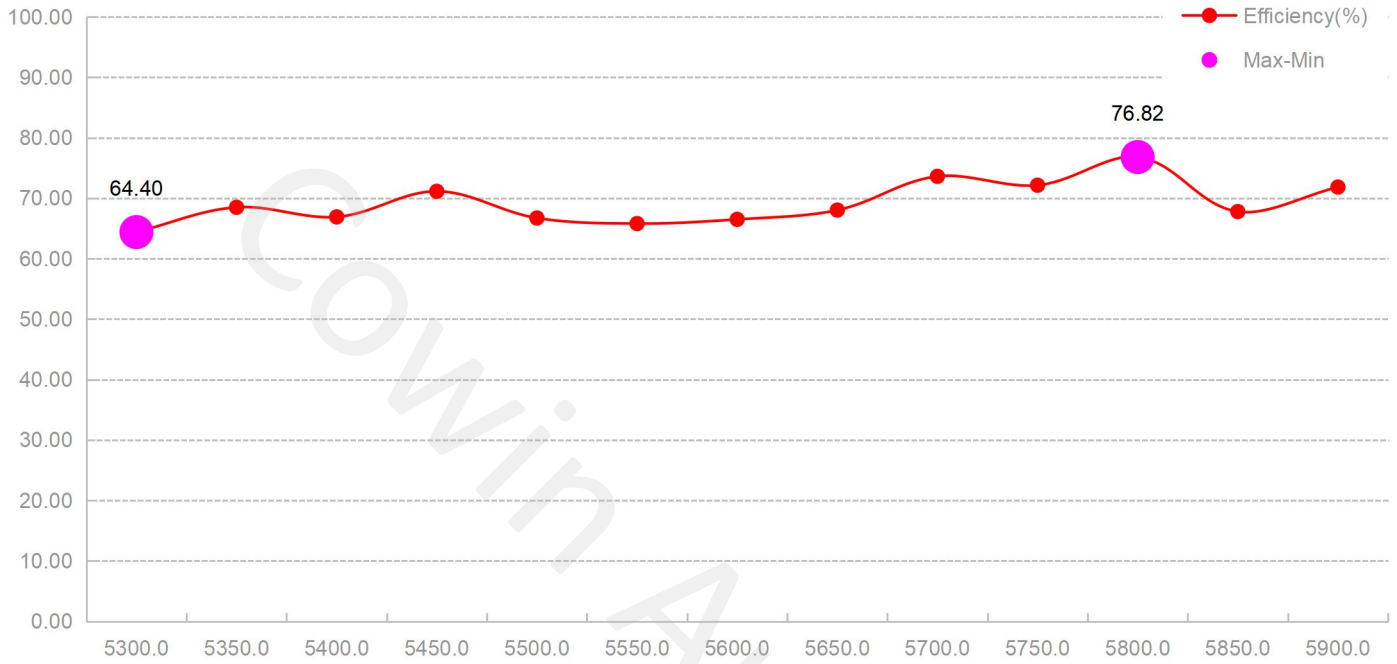
The comprehensive tester is Agilent cmv500



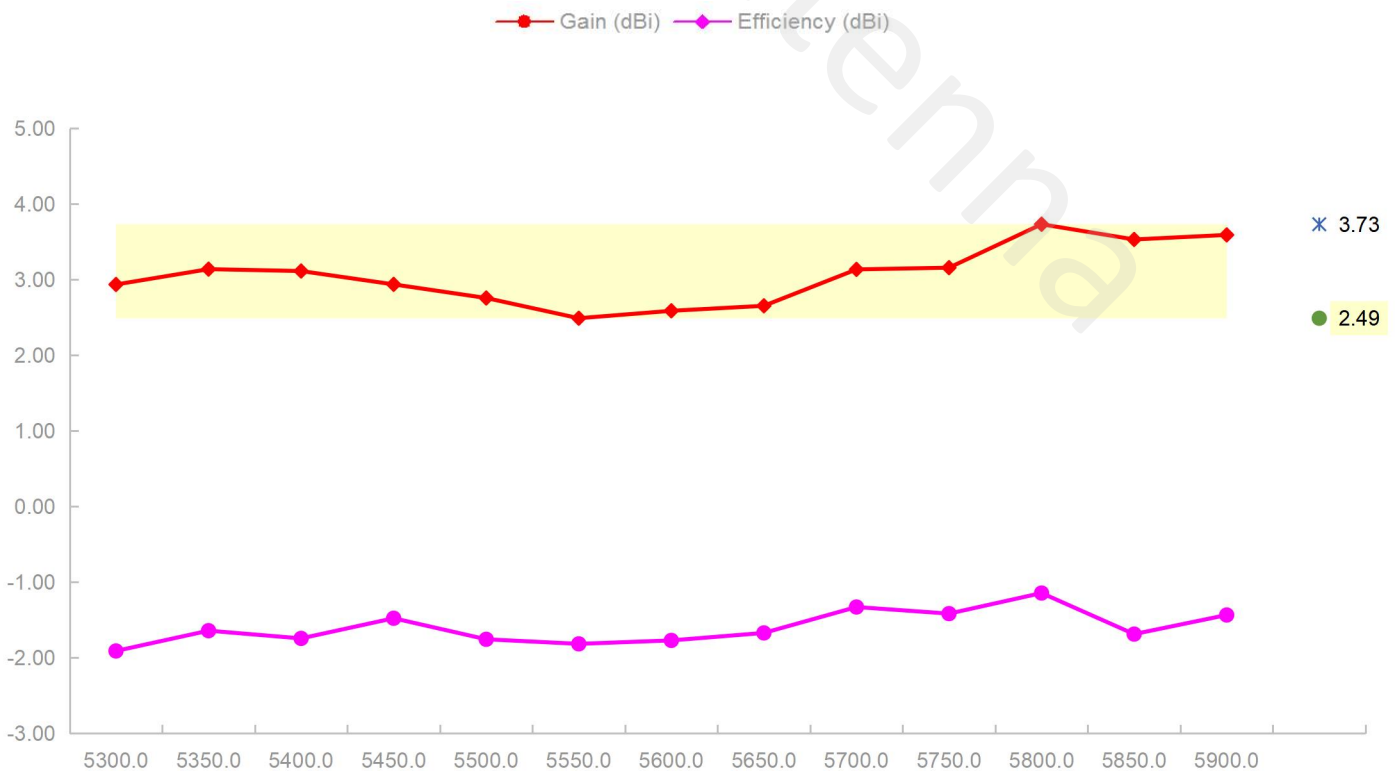
4.1 VSWR



4.2 Efficiency



4.3 Peak gain



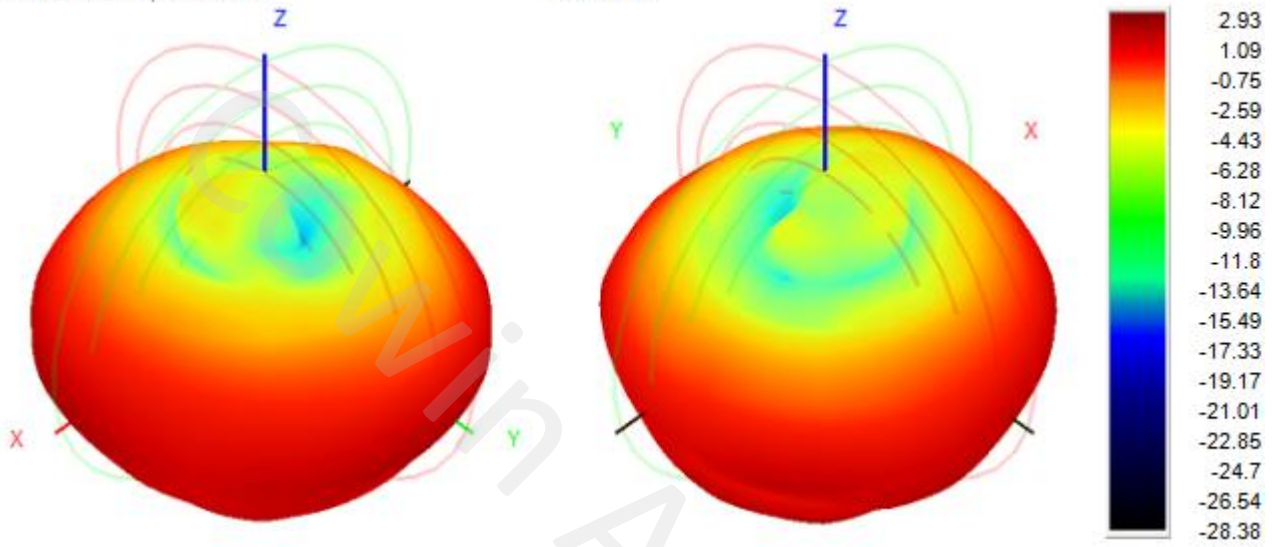
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
5300.0	2.93	64.40
5350.0	3.14	68.50
5400.0	3.11	66.91
5450.0	2.94	71.15
5500.0	2.76	66.73
5550.0	2.49	65.81
5600.0	2.59	66.50
5650.0	2.65	68.04
5700.0	3.13	73.62
5750.0	3.16	72.15
5800.0	3.73	76.82
5850.0	3.53	67.79
5900.0	3.59	71.85

4.5 3D&2D Radiation Patterns

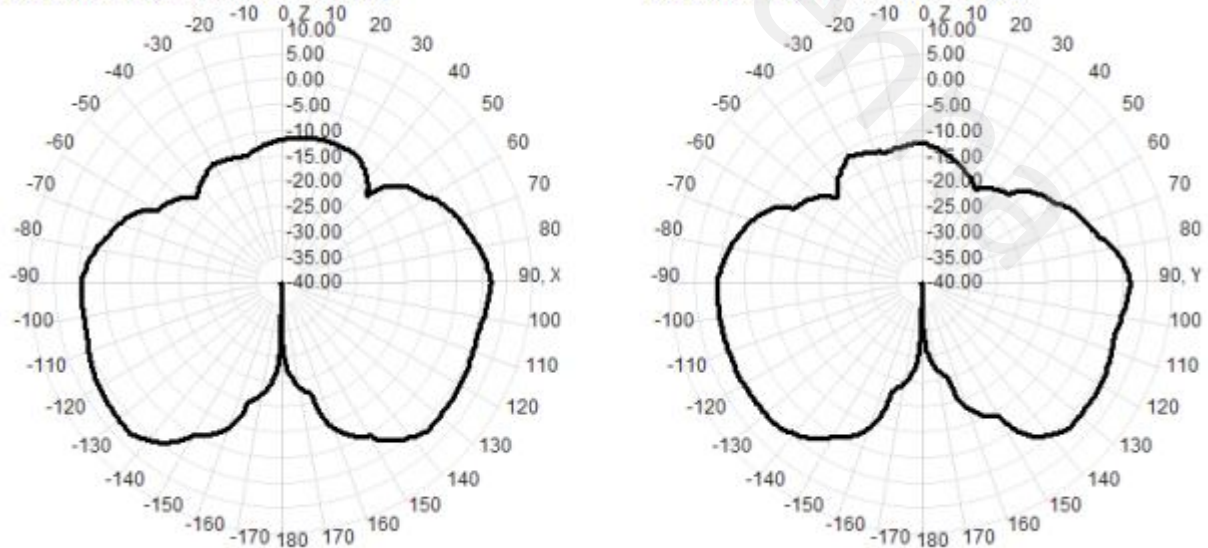
5300.0MHz Total, Eff: 64.4%

Back View

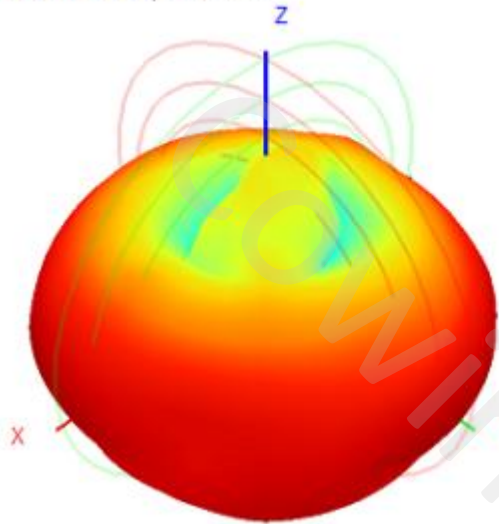


5300.0MHz Total(E1-XZ), Max= 2.19dBi

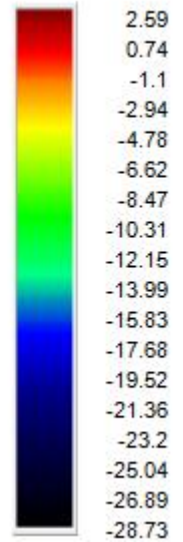
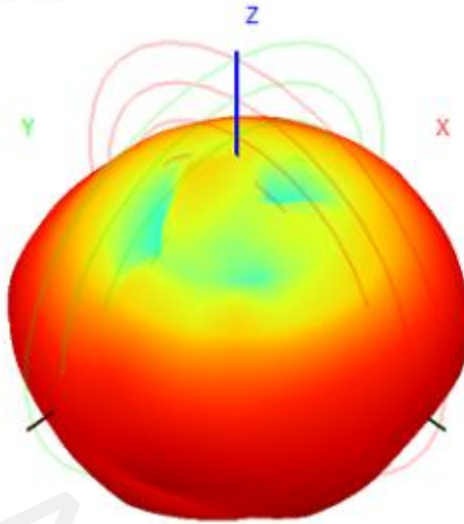
5300.0MHz Total(E2-YZ), Max= 1.39dBi



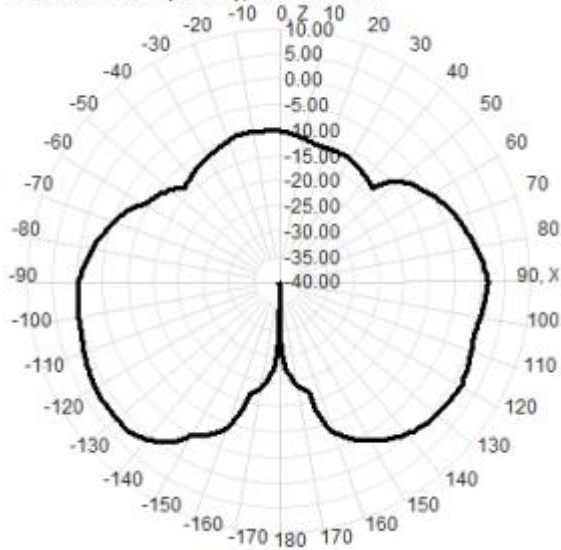
5600.0MHz Total, Eff: 66.5%



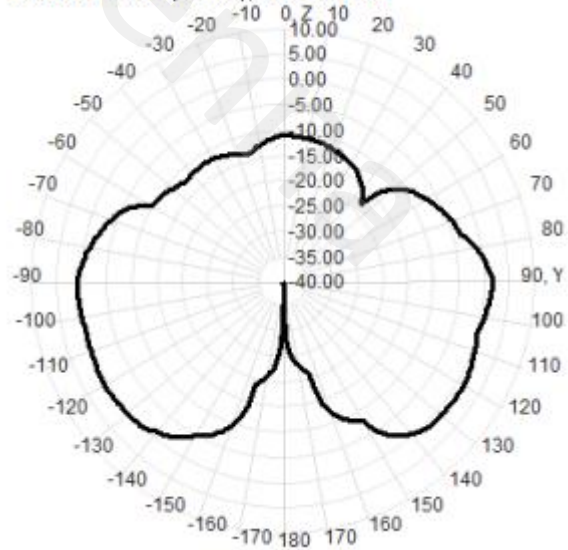
Back View



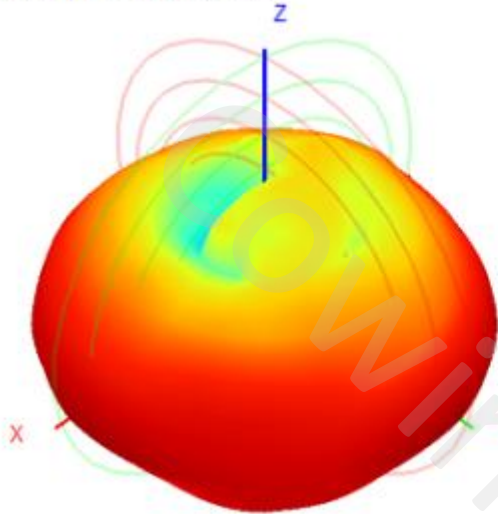
5600.0MHz Total(E1-XZ), Max= 2.02dBi



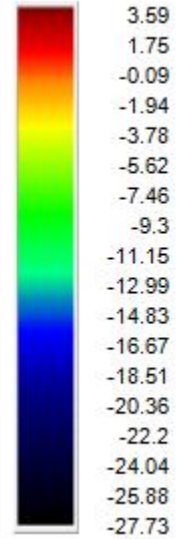
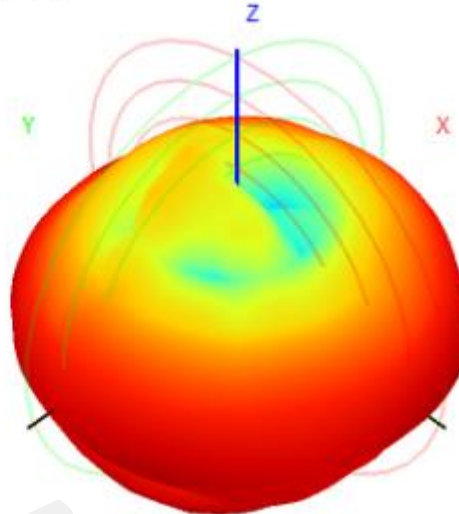
5600.0MHz Total(E2-YZ), Max= 1.47dBi



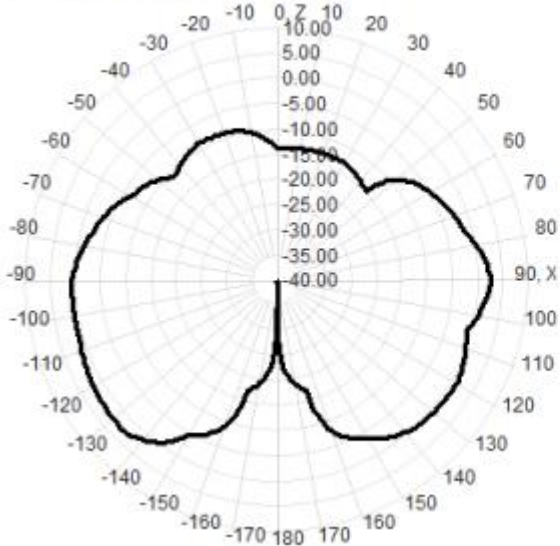
5900.0MHz Total, Eff: 71.8%



Back View



5900.0MHz Total(E1-XZ), Max= 2.57dBi



5900.0MHz Total(E2-YZ), Max= 2.68dBi

