

CW-WZ-0188

4.8-5G External Antenna

Key Features

Frequency: 4800-5000MHz

MMCX 90° Male Connector

Dimensions: 205mm

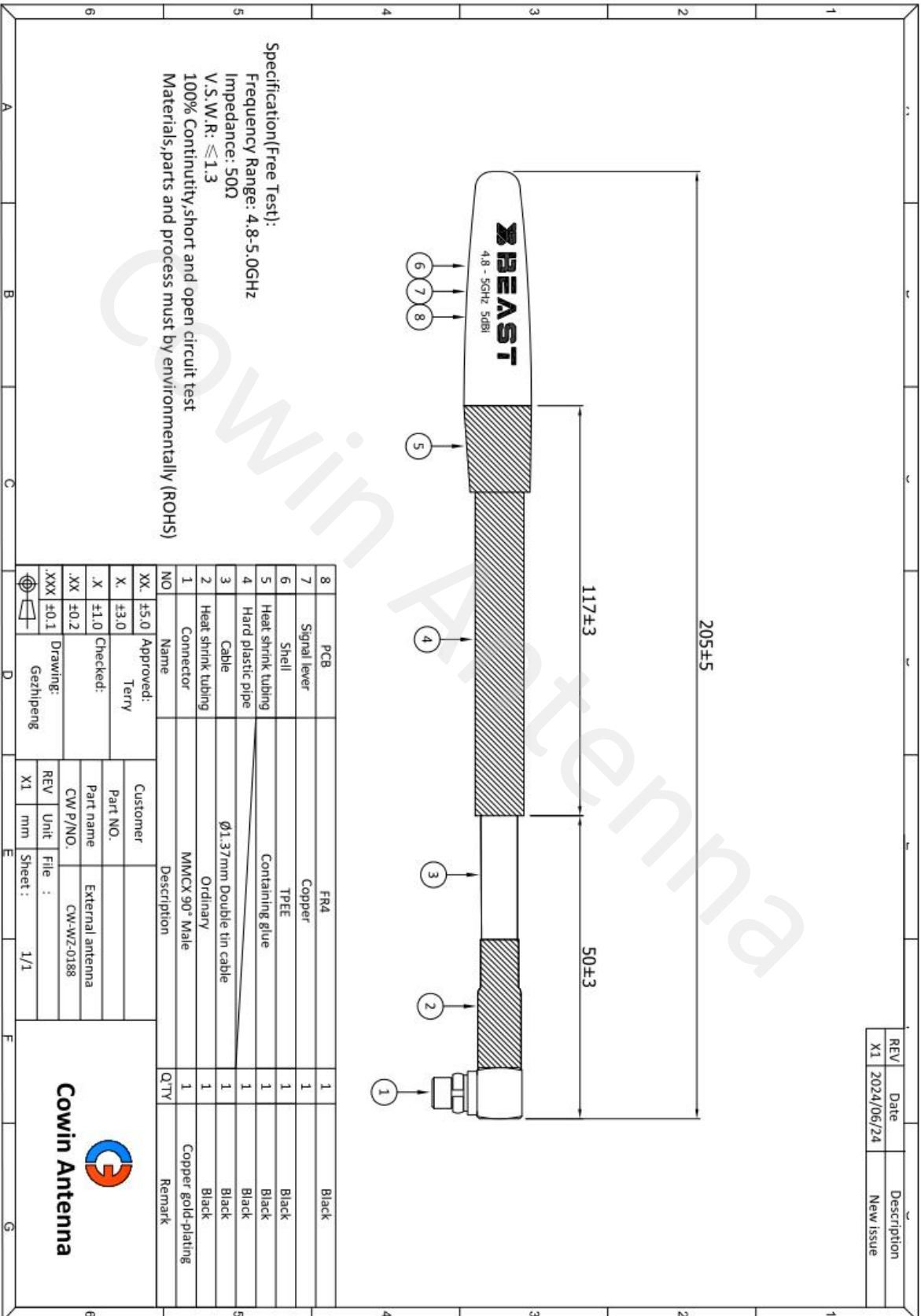


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	4800-5000
VSWR	≤1.3
Efficiency (%)	65.59
Peak Gain (dBi)	3.01
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



REV	Date	Description
X1	2024/06/24	New issue

4. Antenna test parameters

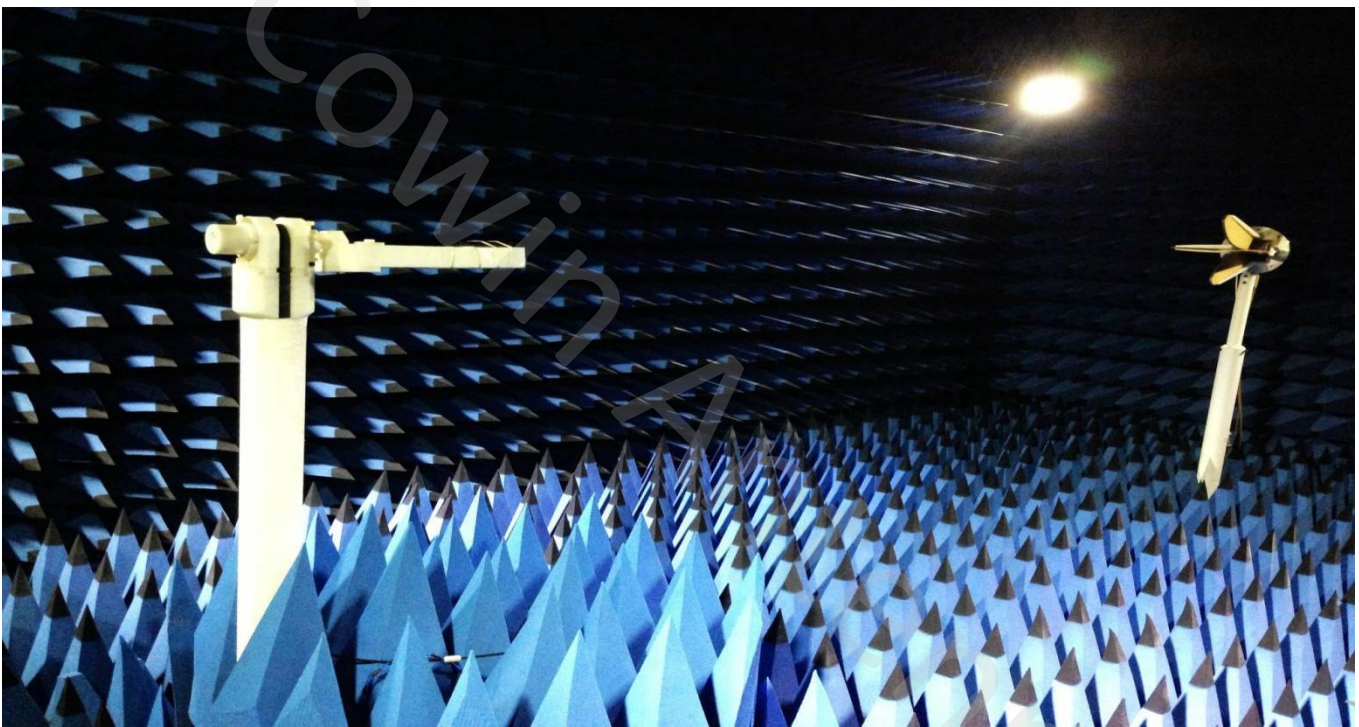
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

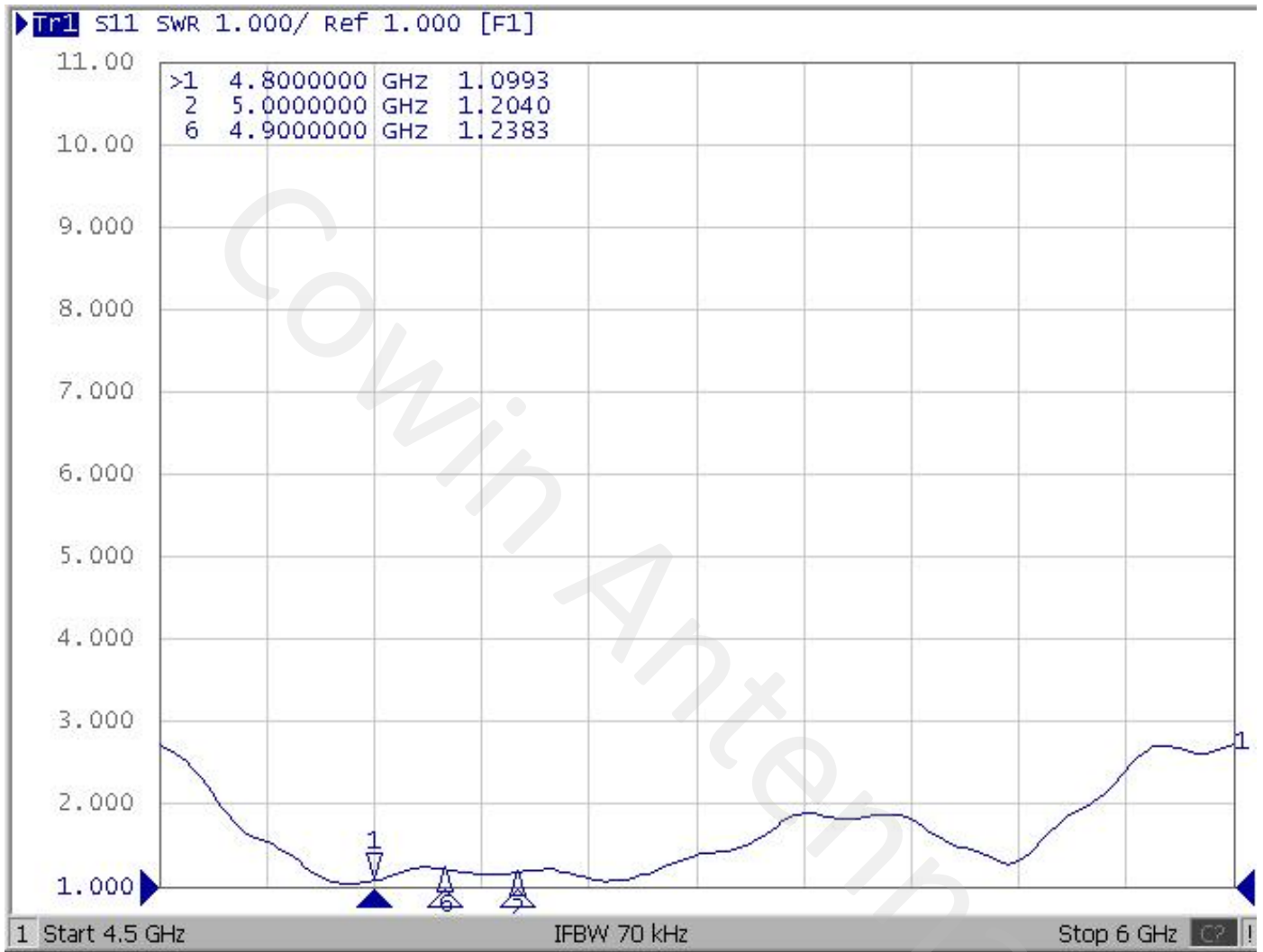
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

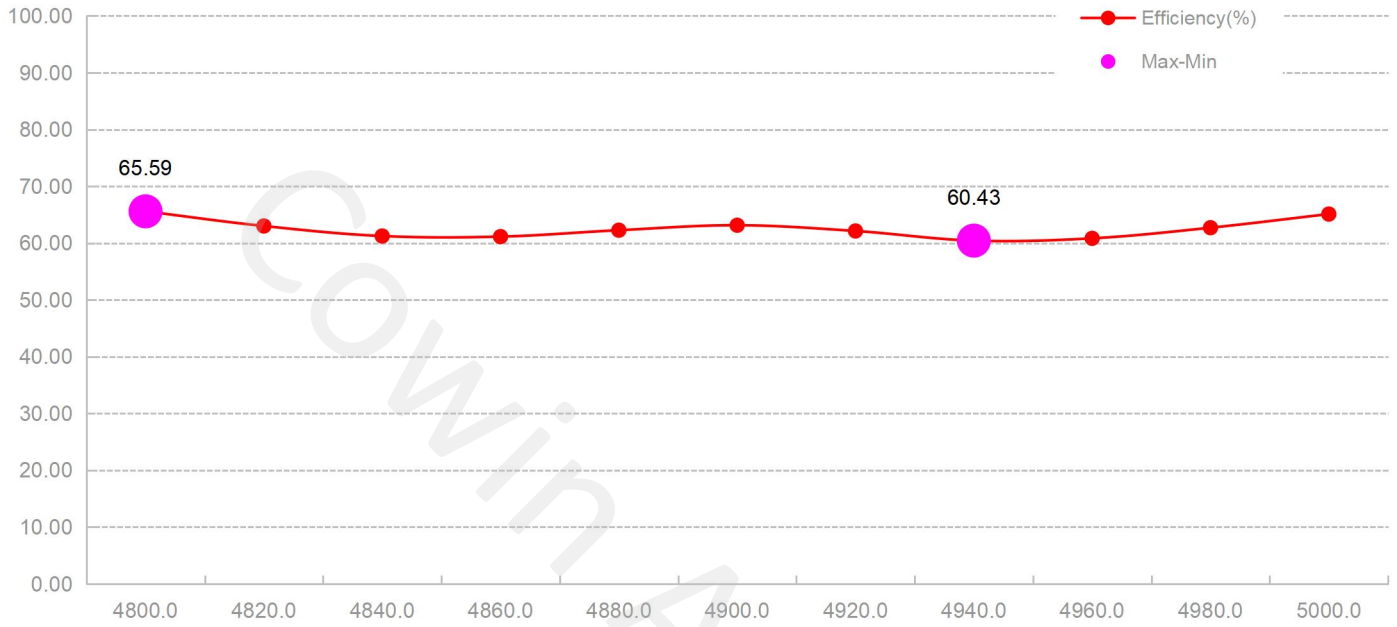
The comprehensive tester is Agilent cmv500



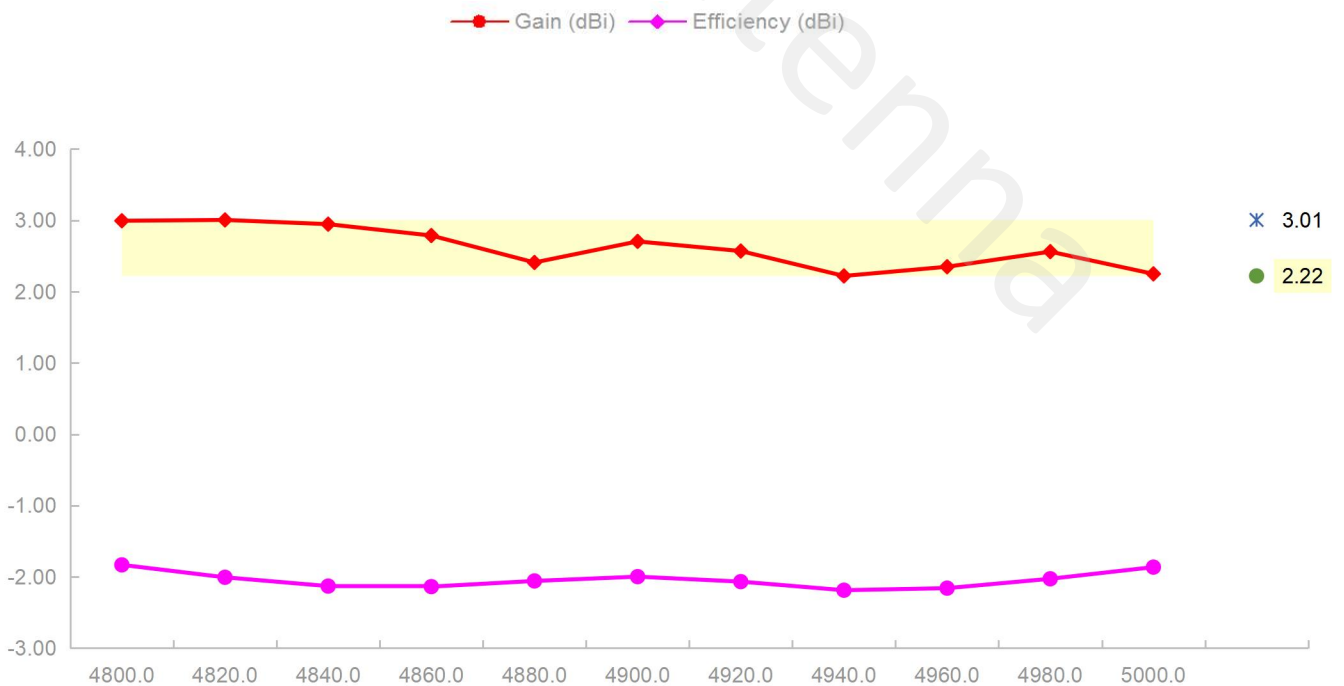
4.1 VSWR



4.2 Efficiency



4.3 Peak gain

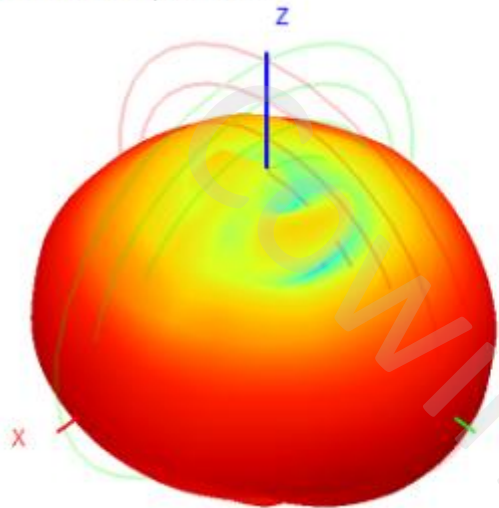


4.4 Data summary

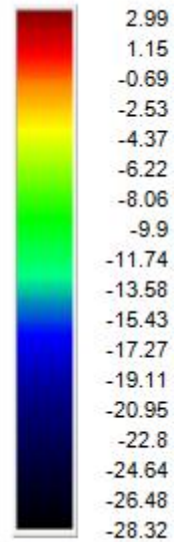
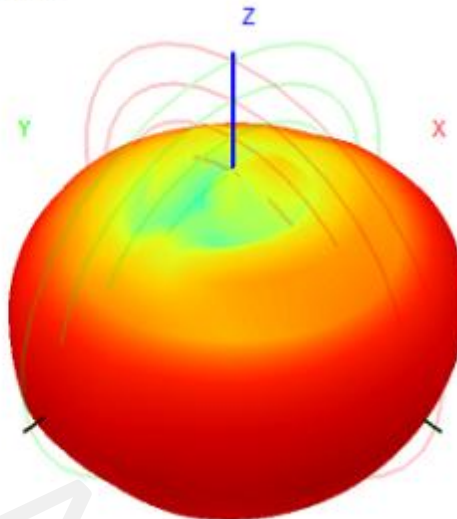
Frequency (MHz)	Gain (dBi)	Efficiency (%)
4800.0	2.99	65.59
4820.0	3.01	63.01
4840.0	2.95	61.24
4860.0	2.79	61.14
4880.0	2.41	62.27
4900.0	2.70	63.14
4920.0	2.57	62.13
4940.0	2.22	60.43
4960.0	2.35	60.84
4980.0	2.56	62.71
5000.0	2.25	65.11

4.5 3D&2D Radiation Patterns

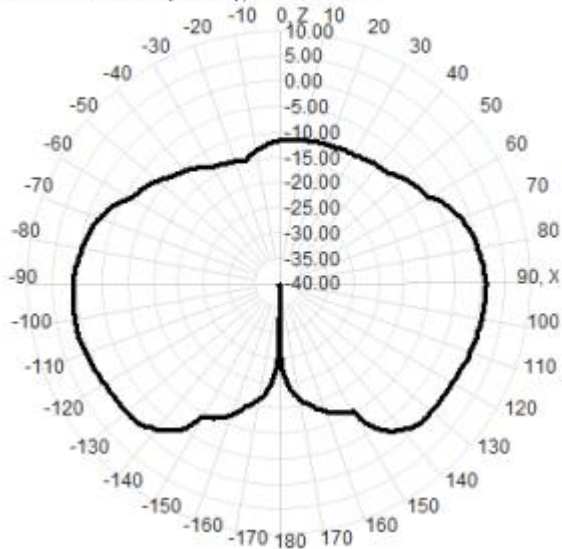
4800.0MHz Total, Eff: 65.6%



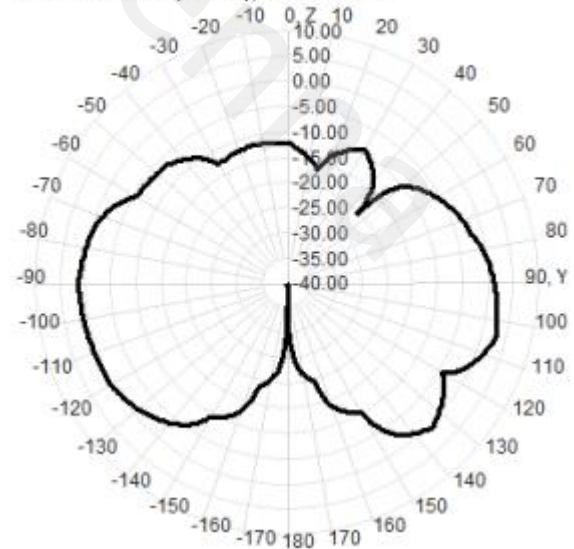
Back View



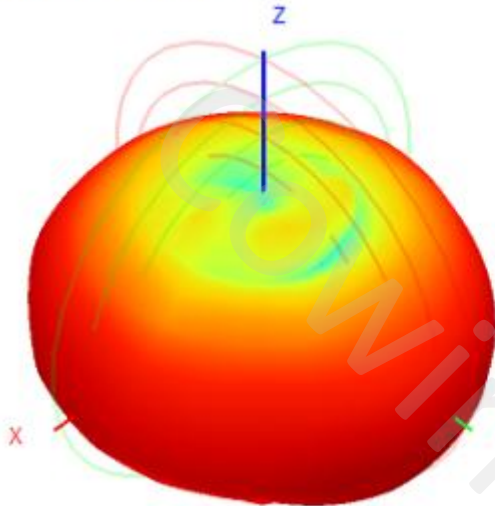
4800.0MHz Total(E1-XZ), Max= 1.11dBi



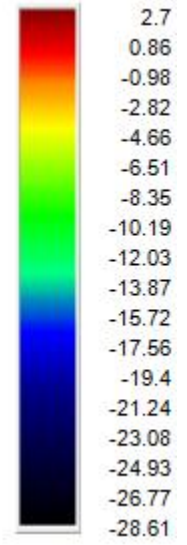
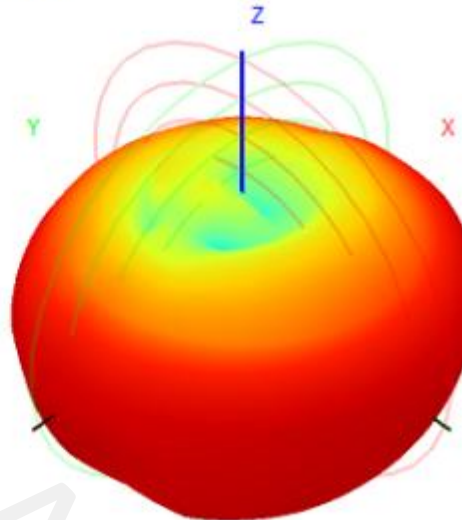
4800.0MHz Total(E2-YZ), Max= 2.62dBi



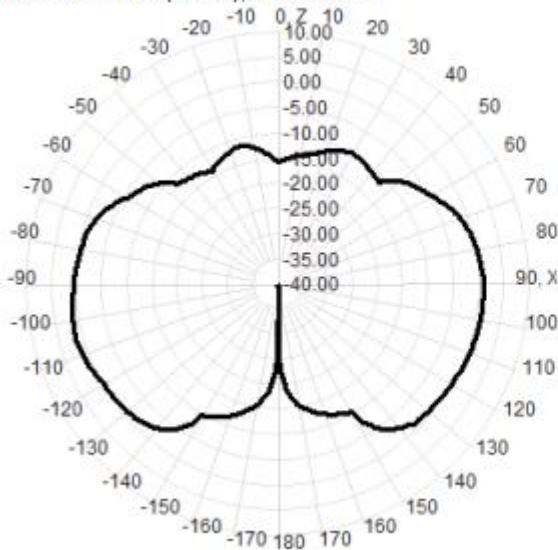
4900.0MHz Total, Eff: 63.1%



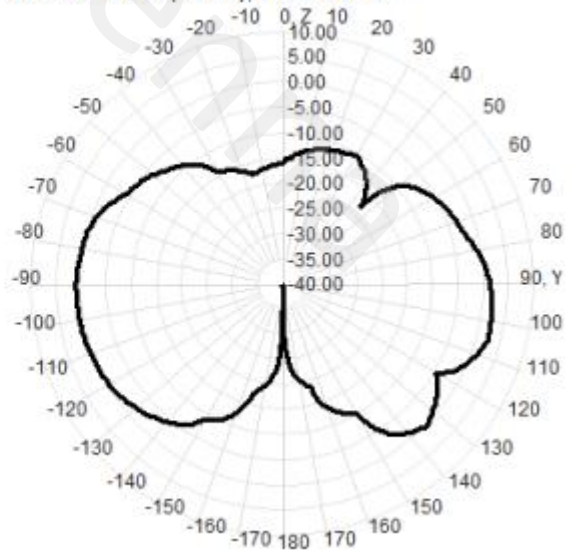
Back View



4900.0MHz Total(E1-XZ), Max= 1.54dBi

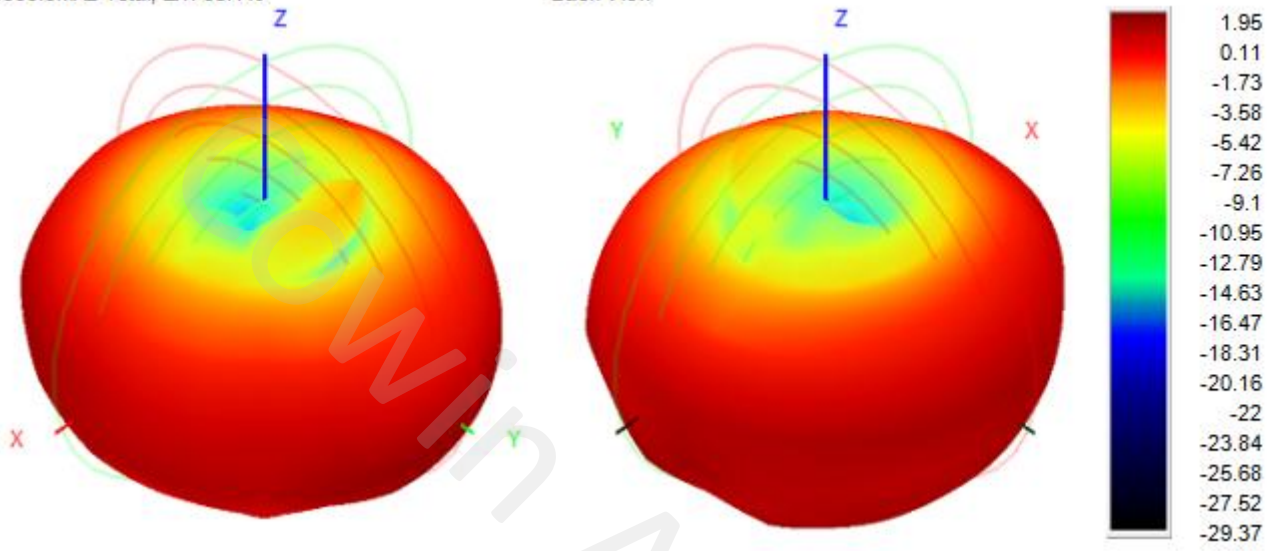


4900.0MHz Total(E2-YZ), Max= 2.20dBi



5000.0MHz Total, Eff: 65.1%

Back View



5000.0MHz Total(E1-XZ), Max= 1.57dBi

5000.0MHz Total(E2-YZ), Max= 1.37dBi

