

CW-LS-0035

6.5-8G External Antenna

Key Features

Frequency: 6500-8000MHz

SMA Male Connector

Dimensions: 108mm

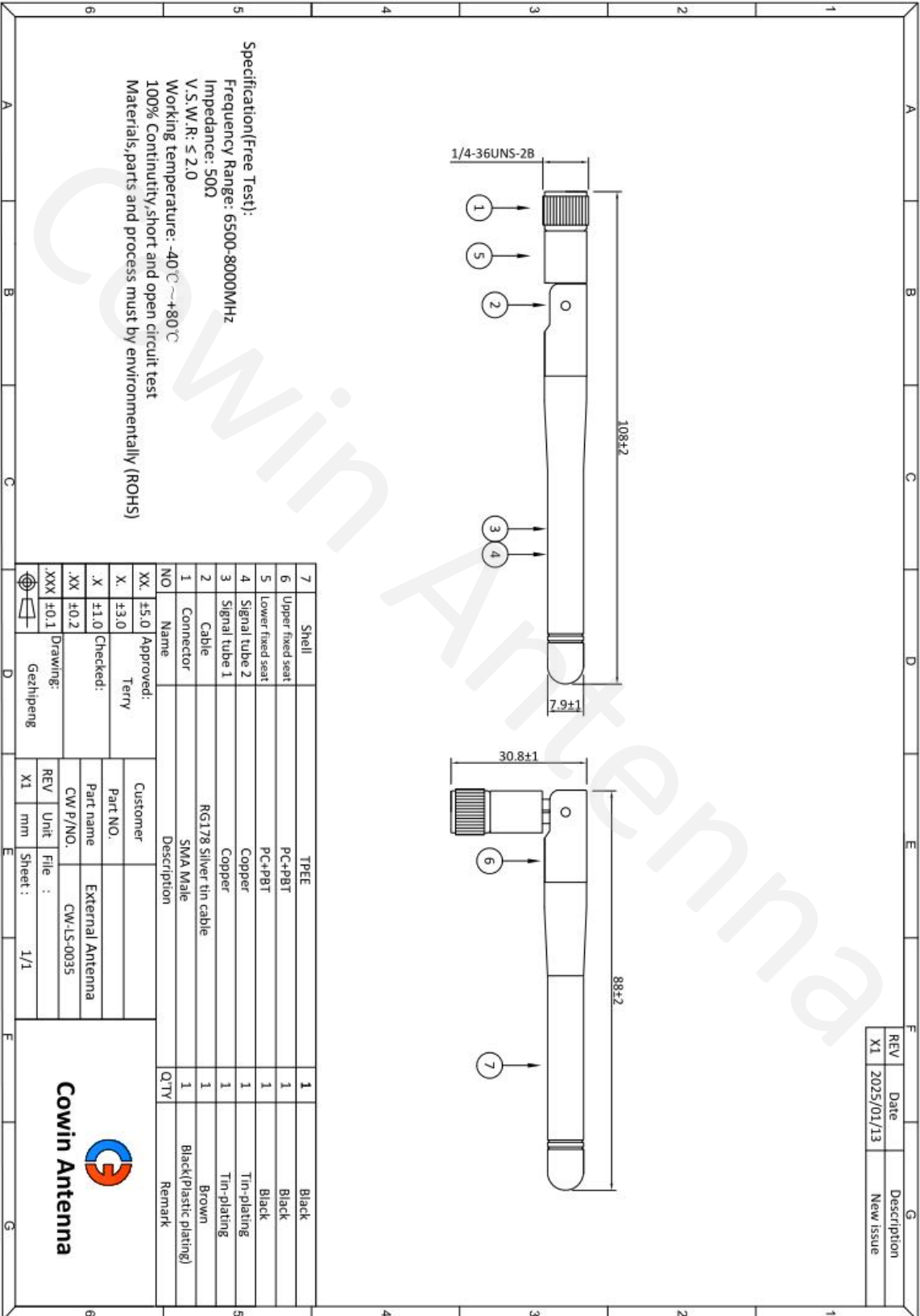


1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	6500-8000
VSWR	≤2.0
Efficiency (%)	80.58
Peak Gain (dBi)	5.06
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	PC+PBT / TPEE
Inner Structure	Signal tube
Cable Type	RG178 Silver tin cable
Connector Type	SMA Male
Dimensions (mm)	108
Antenna Color	Black
Operation Temperature	-40°C to +80°C
Storage Temperature	-40°C to +80°C
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

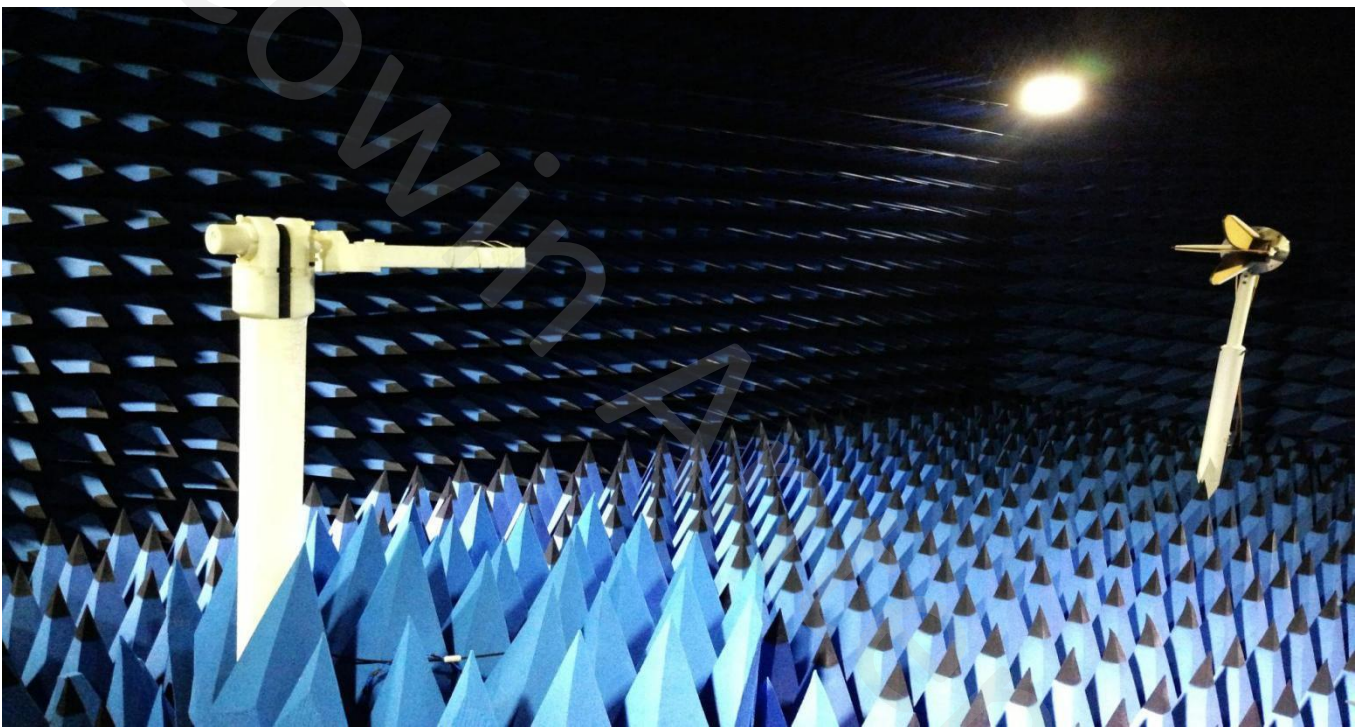
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

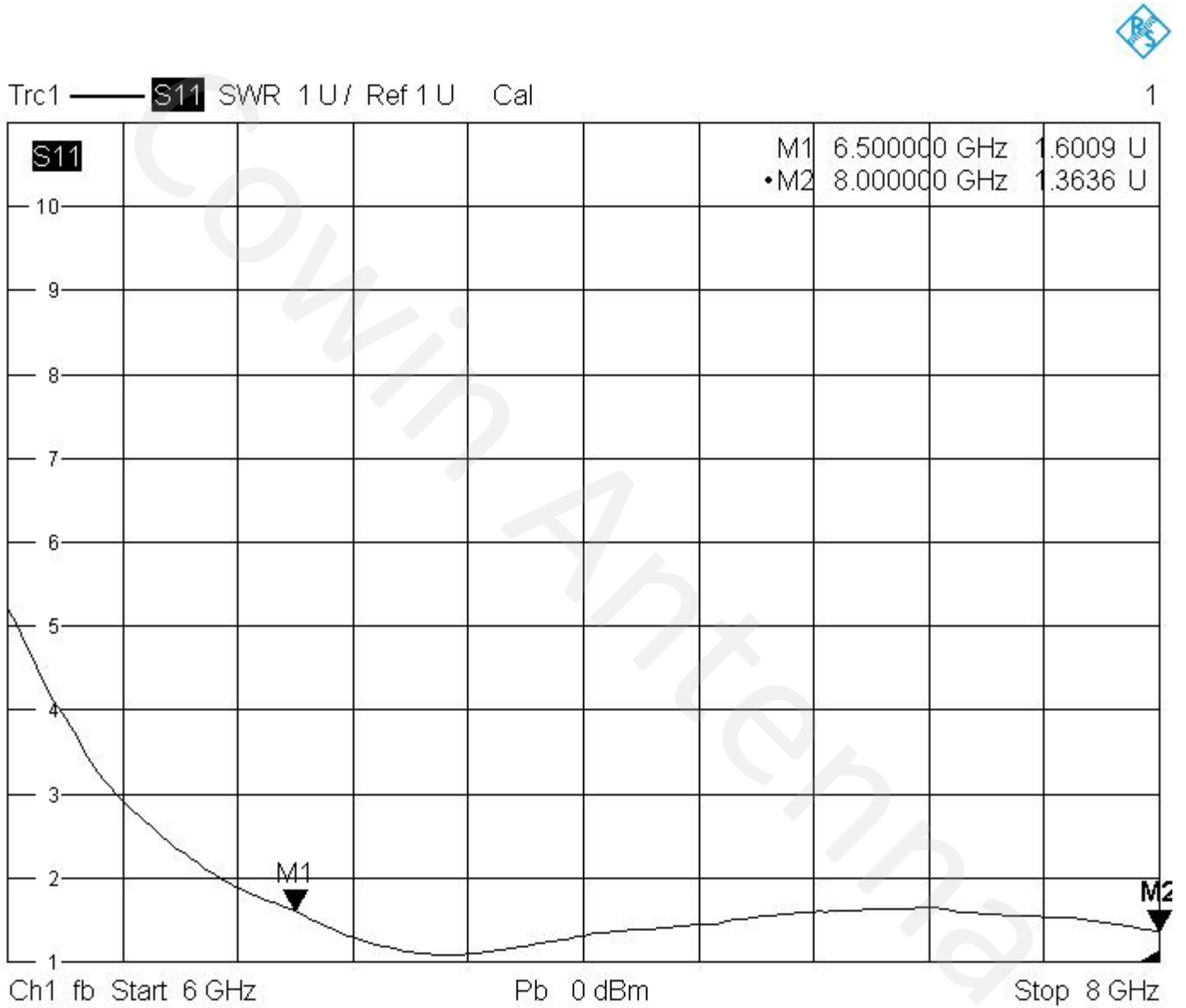
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

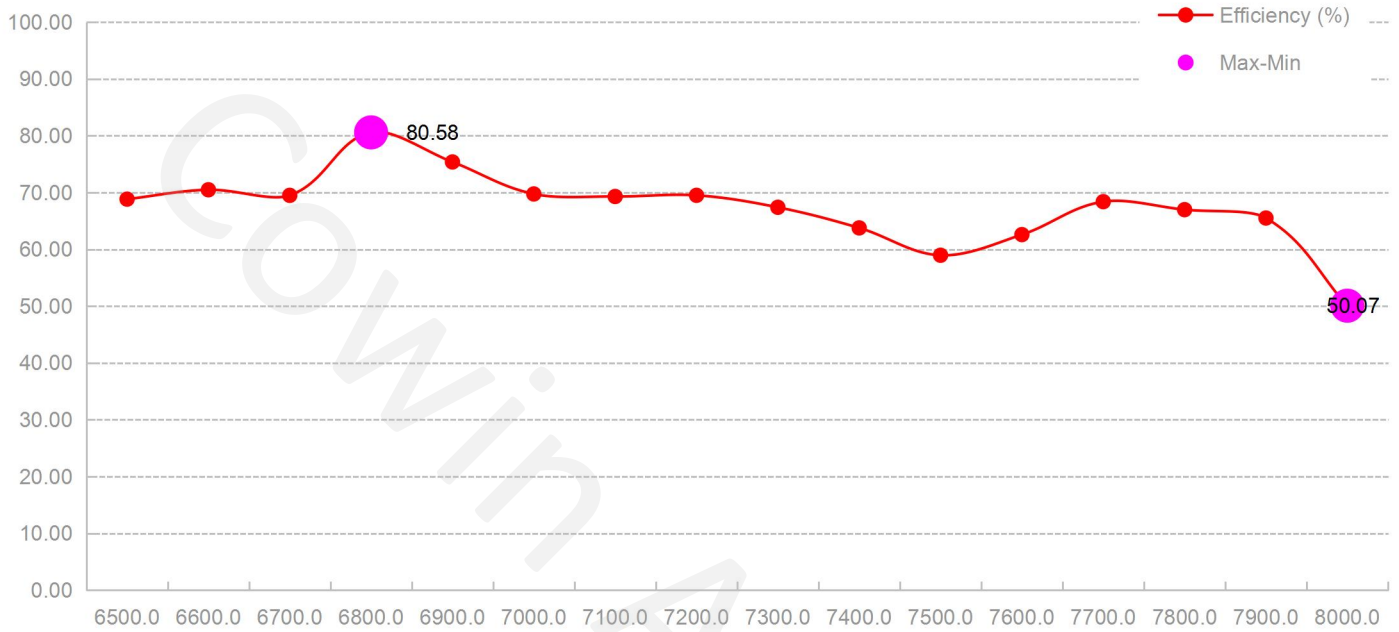
The comprehensive tester is Agilent cmv500



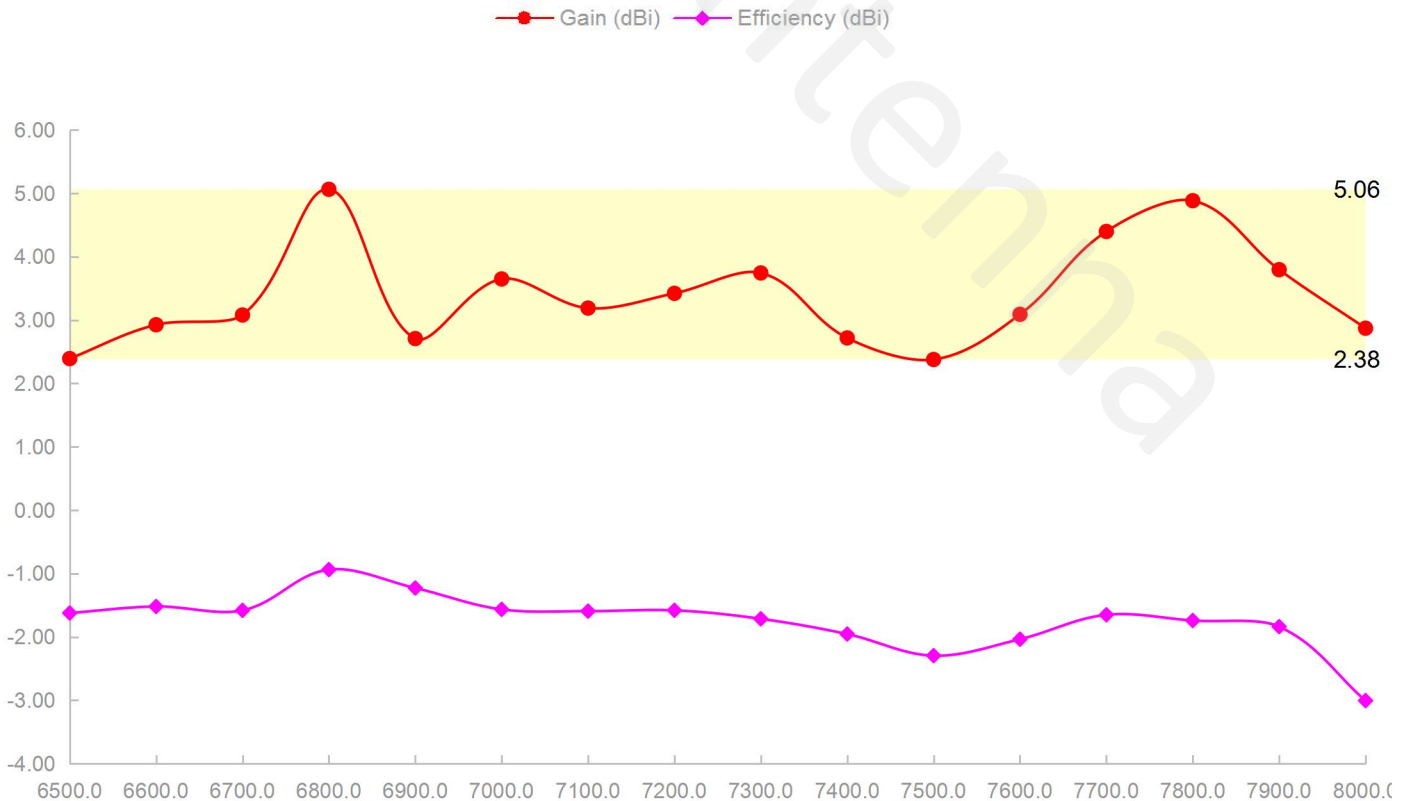
4.1 VSWR



4.2 Efficiency



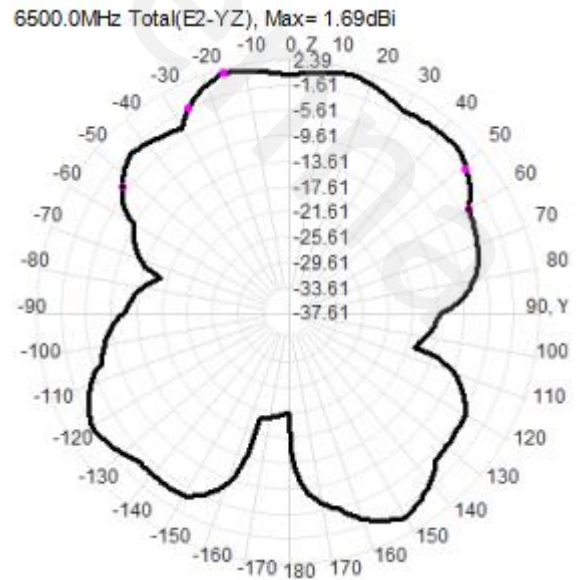
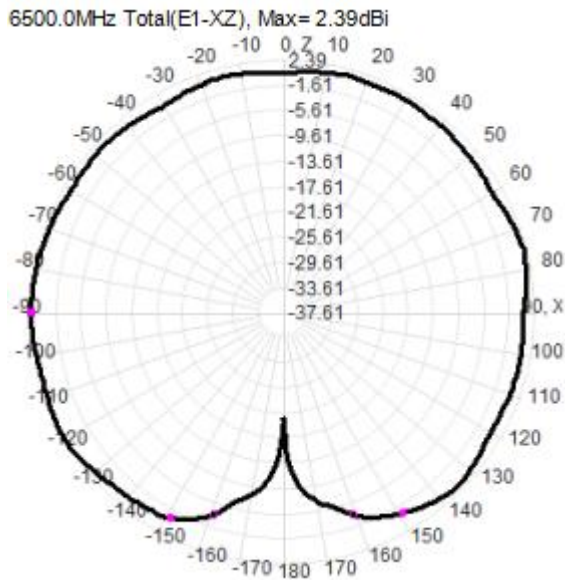
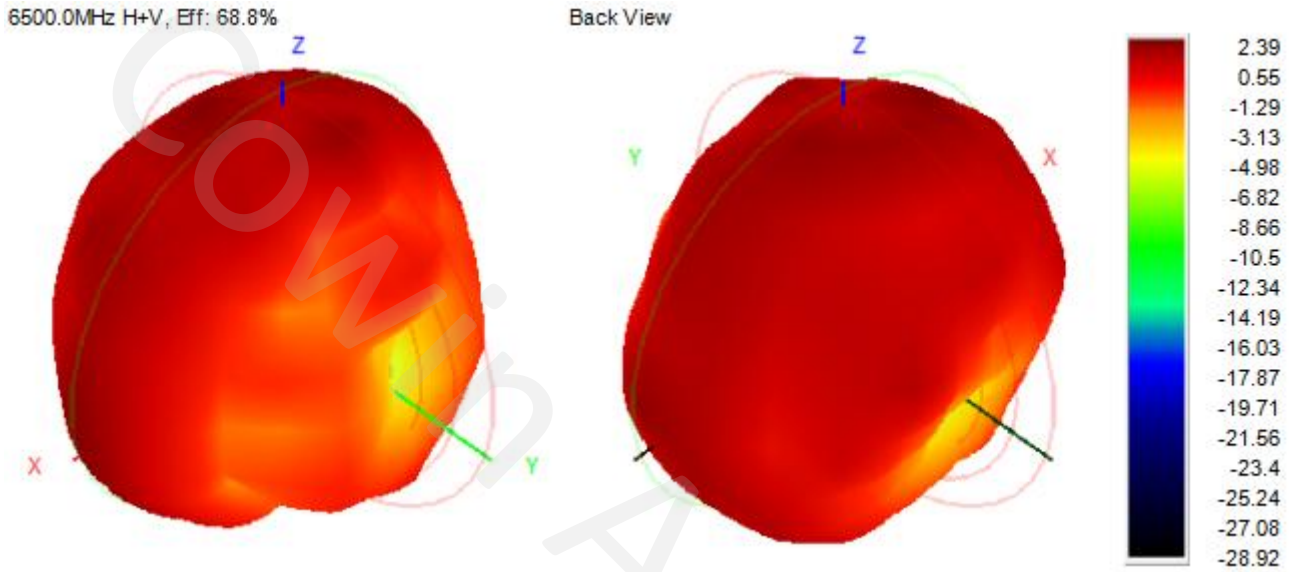
4.3 Peak gain



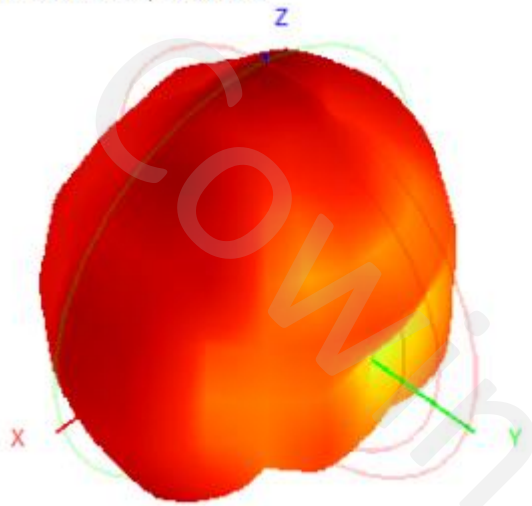
4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
6500.0	2.39	68.83
6600.0	2.93	70.48
6700.0	3.08	69.50
6800.0	5.06	80.58
6900.0	2.71	75.38
7000.0	3.65	69.74
7100.0	3.19	69.30
7200.0	3.42	69.50
7300.0	3.74	67.40
7400.0	2.72	63.77
7500.0	2.38	58.95
7600.0	3.09	62.58
7700.0	4.40	68.38
7800.0	4.88	66.98
7900.0	3.79	65.51
8000.0	2.87	50.07

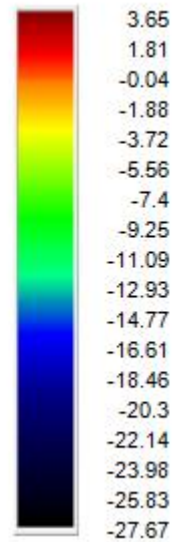
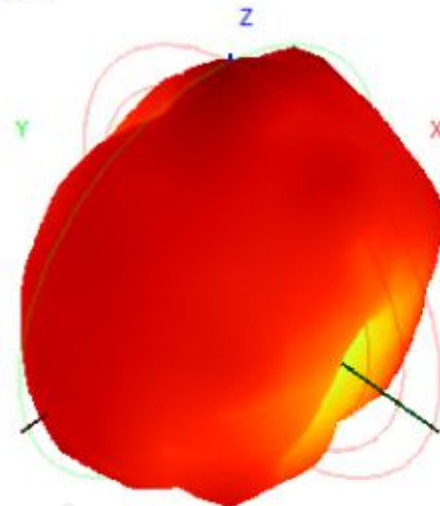
4.5 3D&2D Radiation Patterns



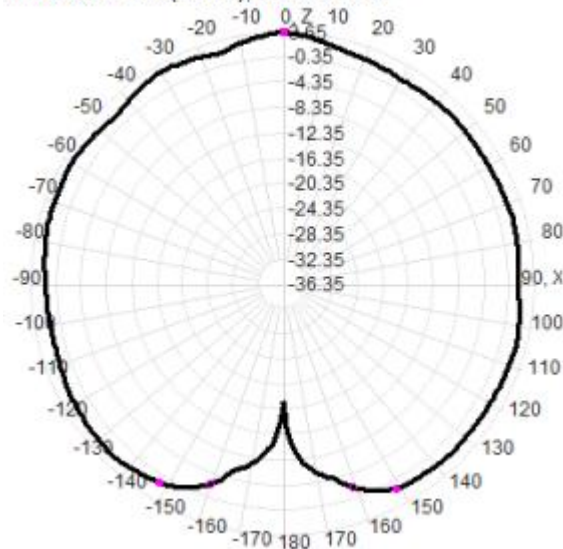
7000.0MHz H+V, Eff: 69.7%



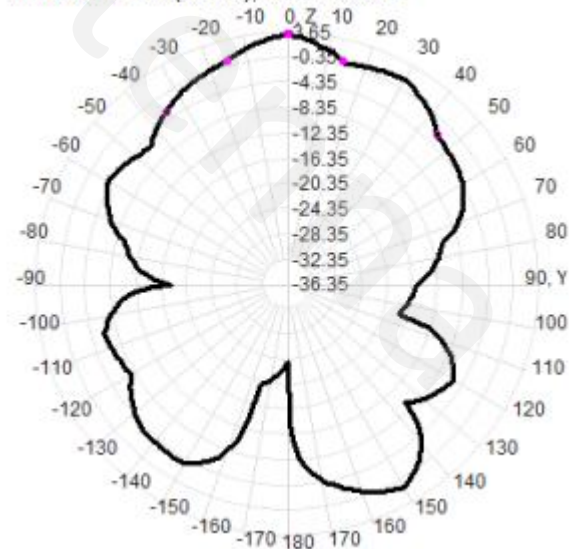
Back View



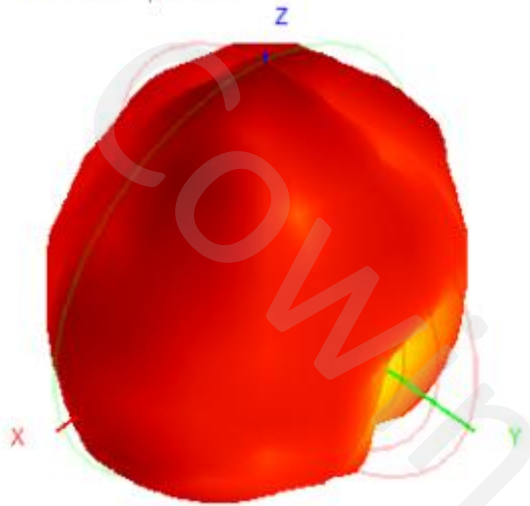
7000.0MHz Total(E1-XZ), Max= 3.65dBi



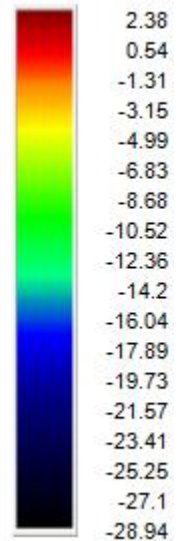
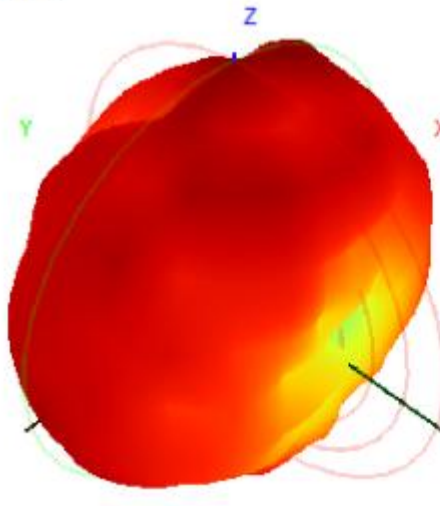
7000.0MHz Total(E2-YZ), Max= 3.27dBi



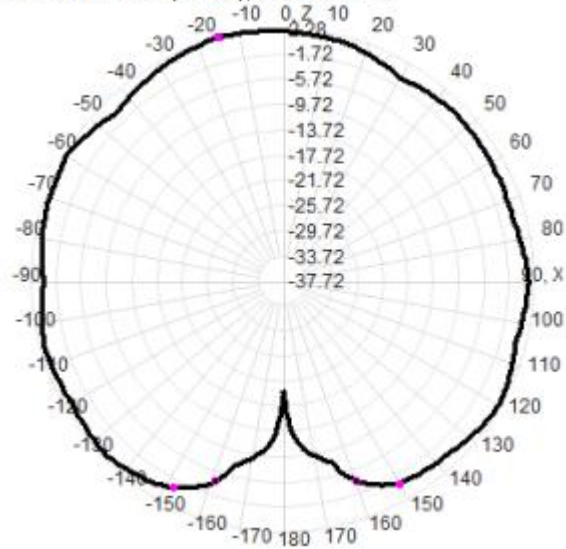
7500.0MHz H+V, Eff: 59.0%



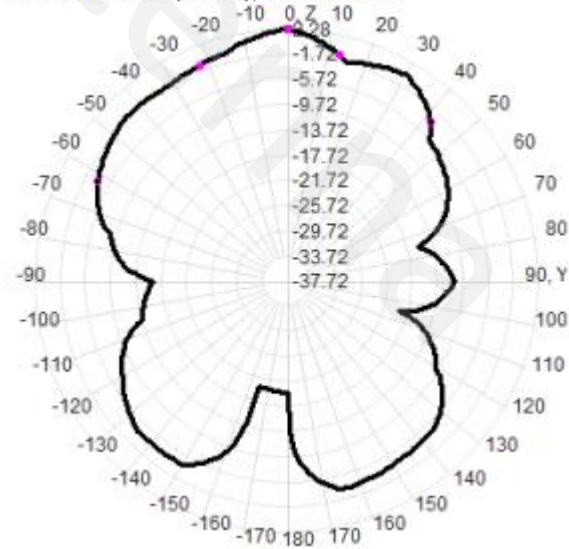
Back View



7500.0MHz Total(E1-XZ), Max= 2.23dBi

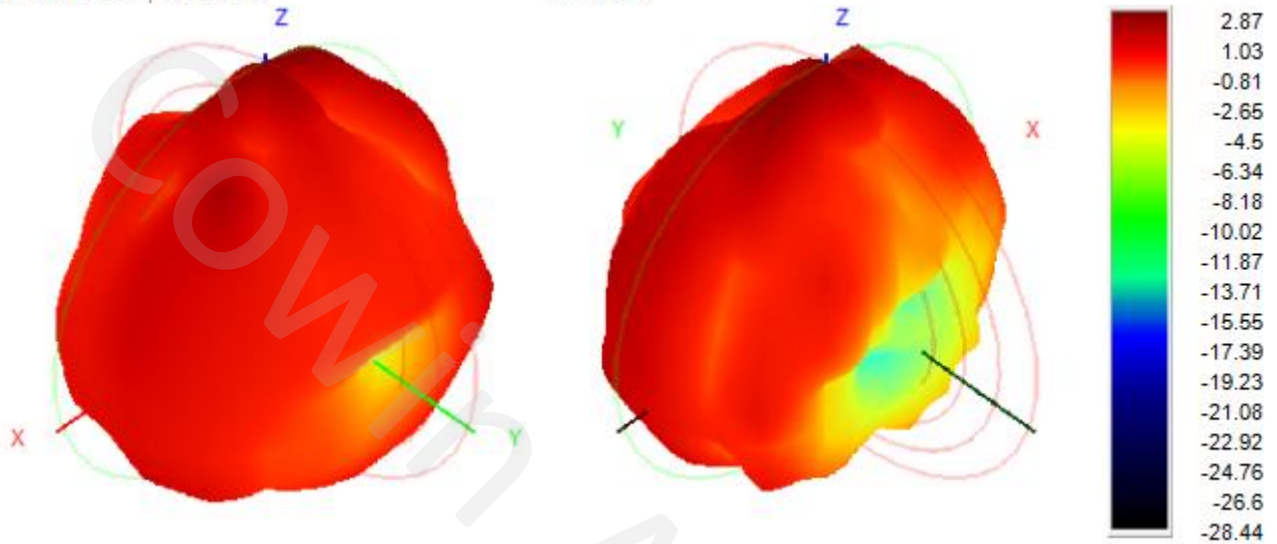


7500.0MHz Total(E2-YZ), Max= 2.28dBi



8000.0MHz H+V, Eff: 50.1%

Back View



8000.0MHz Total(E1-XZ), Max= 2.53dBi

8000.0MHz Total(E2-YZ), Max= 2.83dBi

