

CW-NZ-0288

6-8.5G Internal Antenna

Key Features

Frequency: 6-8.5GHz

Connector: I-PEX

Cable Type: RF1.37 Double tin cable

Dimensions: 18.6*15.6*0.35mm



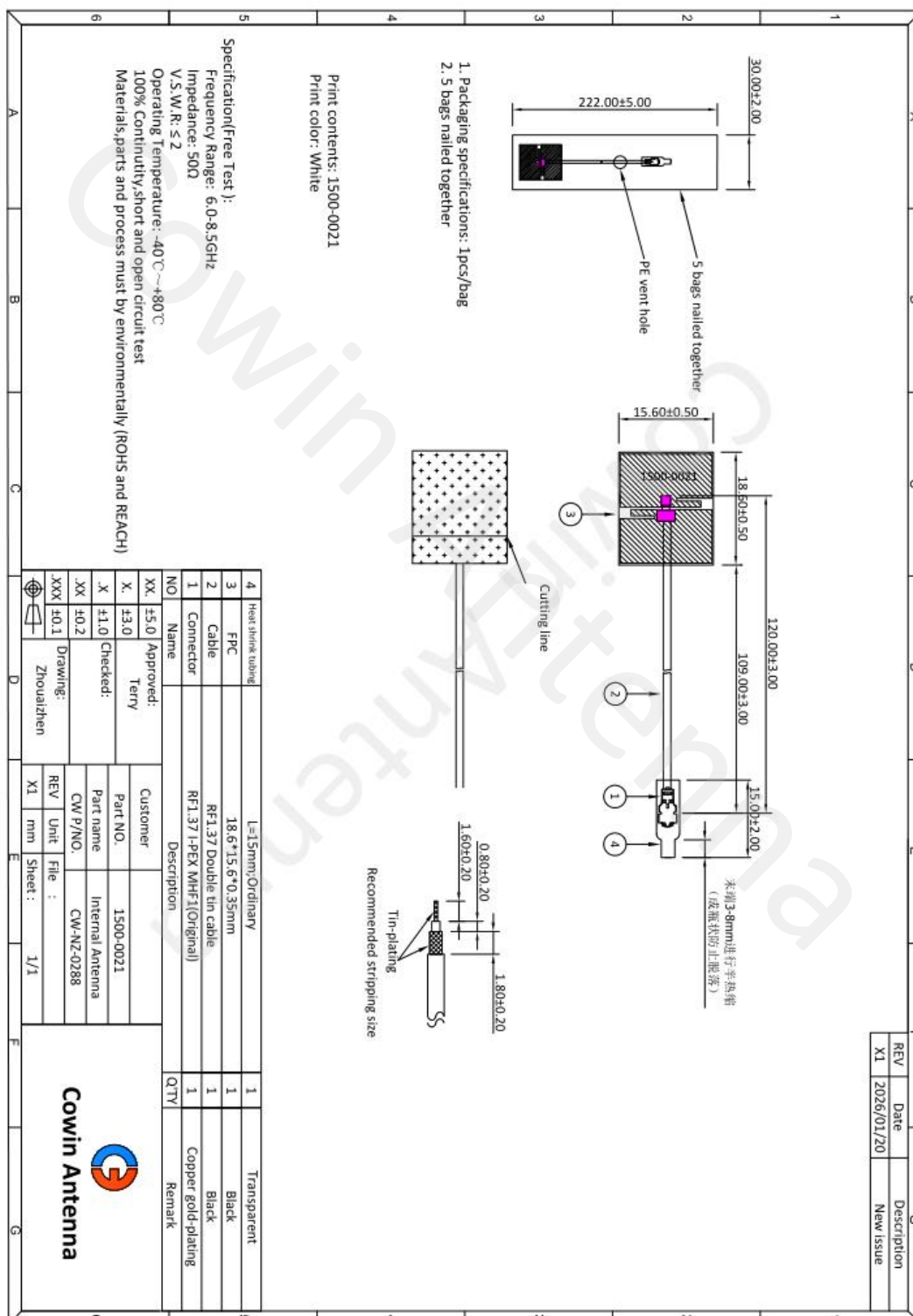
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	6000-8500
VSWR	≤ 2
Efficiency (%)	94.22
Peak Gain (dBi)	5.22
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10

2. Material and environmental characteristics

External Structure	N/A
Inner Structure	FPC
Cable Type	RF1.37 Double tin cable
Connector Type	I-PEX
Dimensions (mm)	18.6*15.6*0.35mm
Antenna Colour	Black
Operation Temperature	-40°C to +80°C
Storage Temperature	-40°C to +80°C
Antenna Storage Life(year)	10
Substance Compliance	ROHS

3. Antenna drawing



4. Antenna test parameters

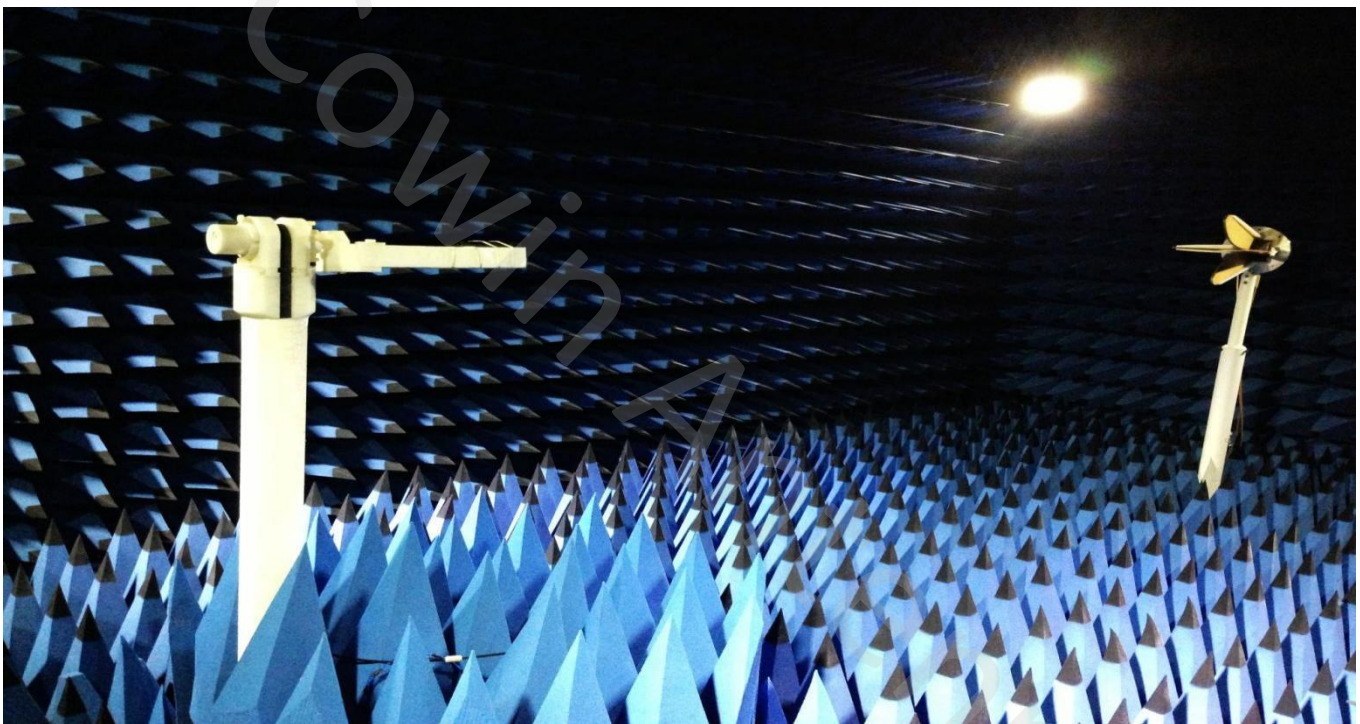
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

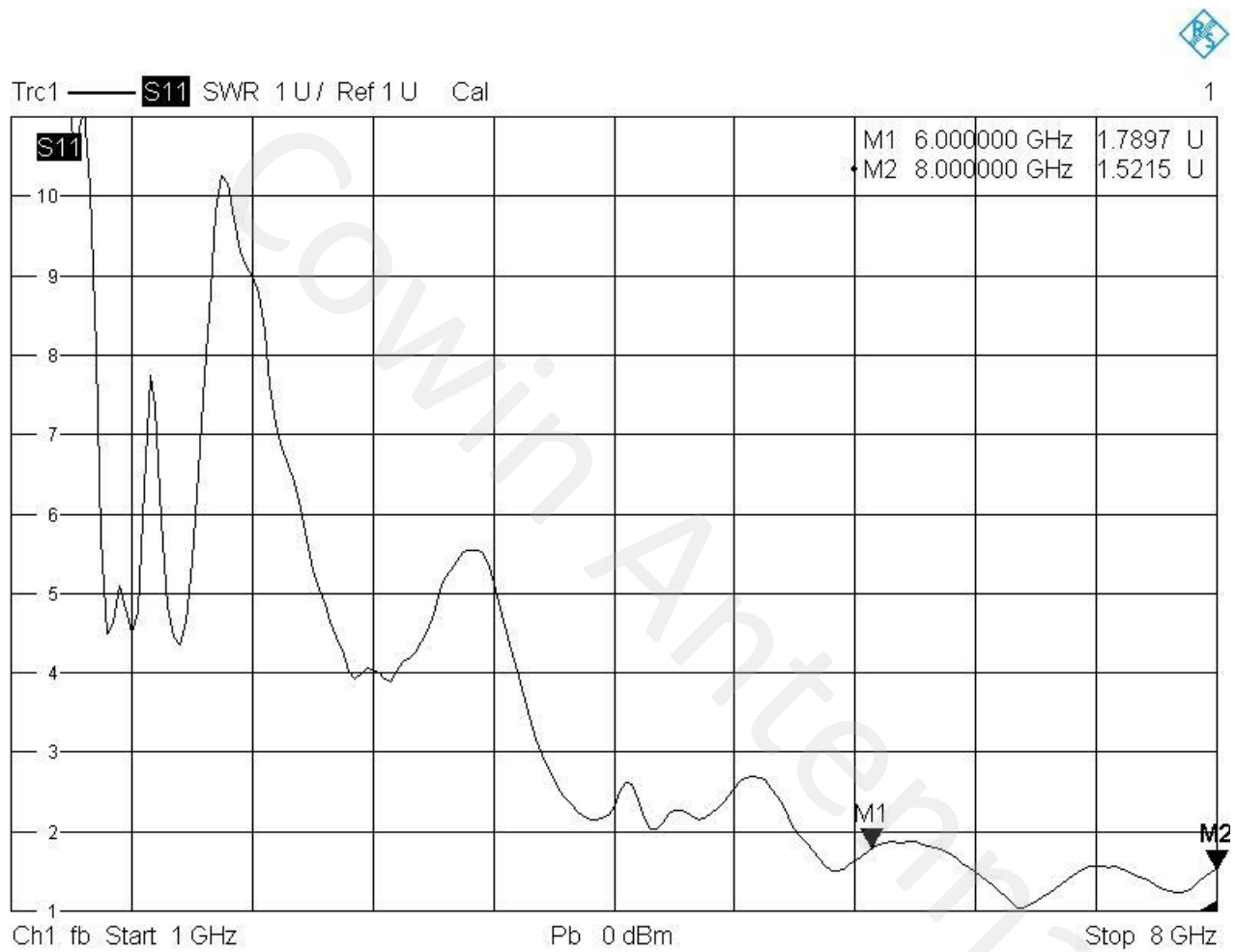
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

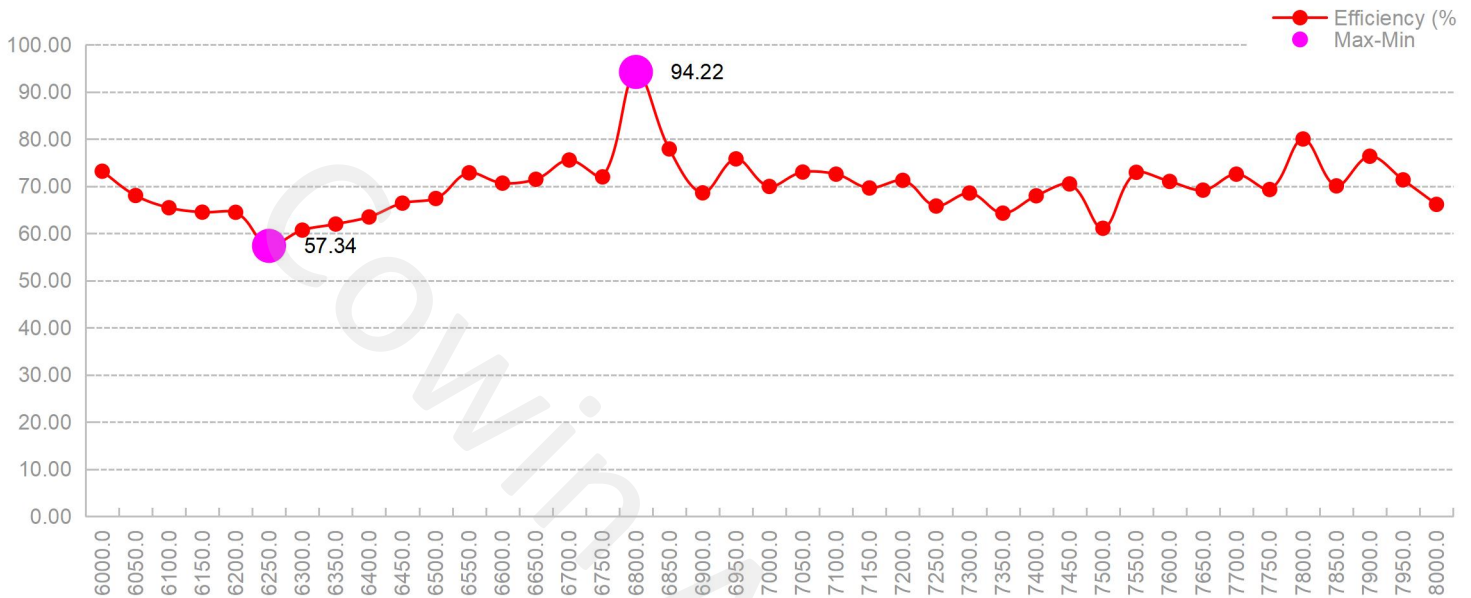
The comprehensive tester is Agilent cmv500



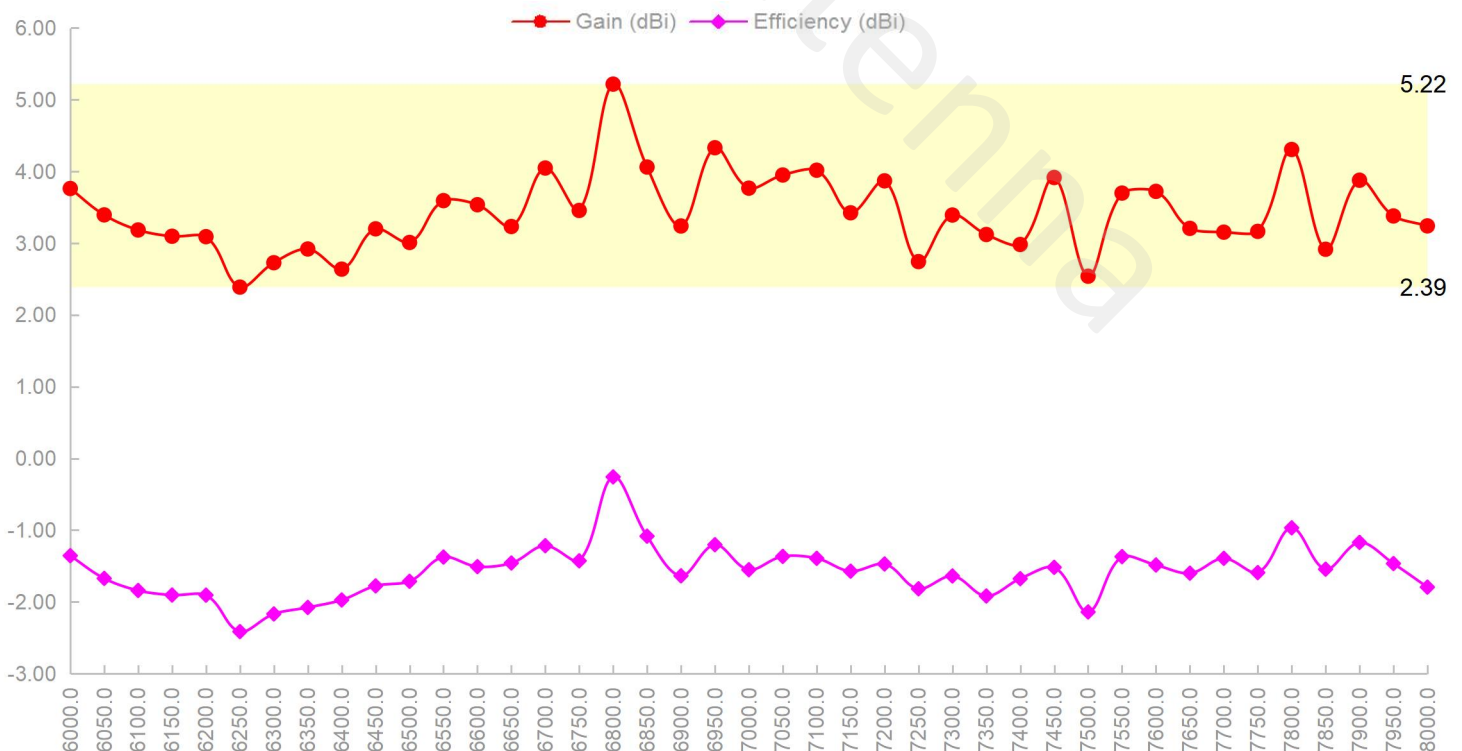
4.1 VSWR



4.2 Efficiency



4.3 Peak gain

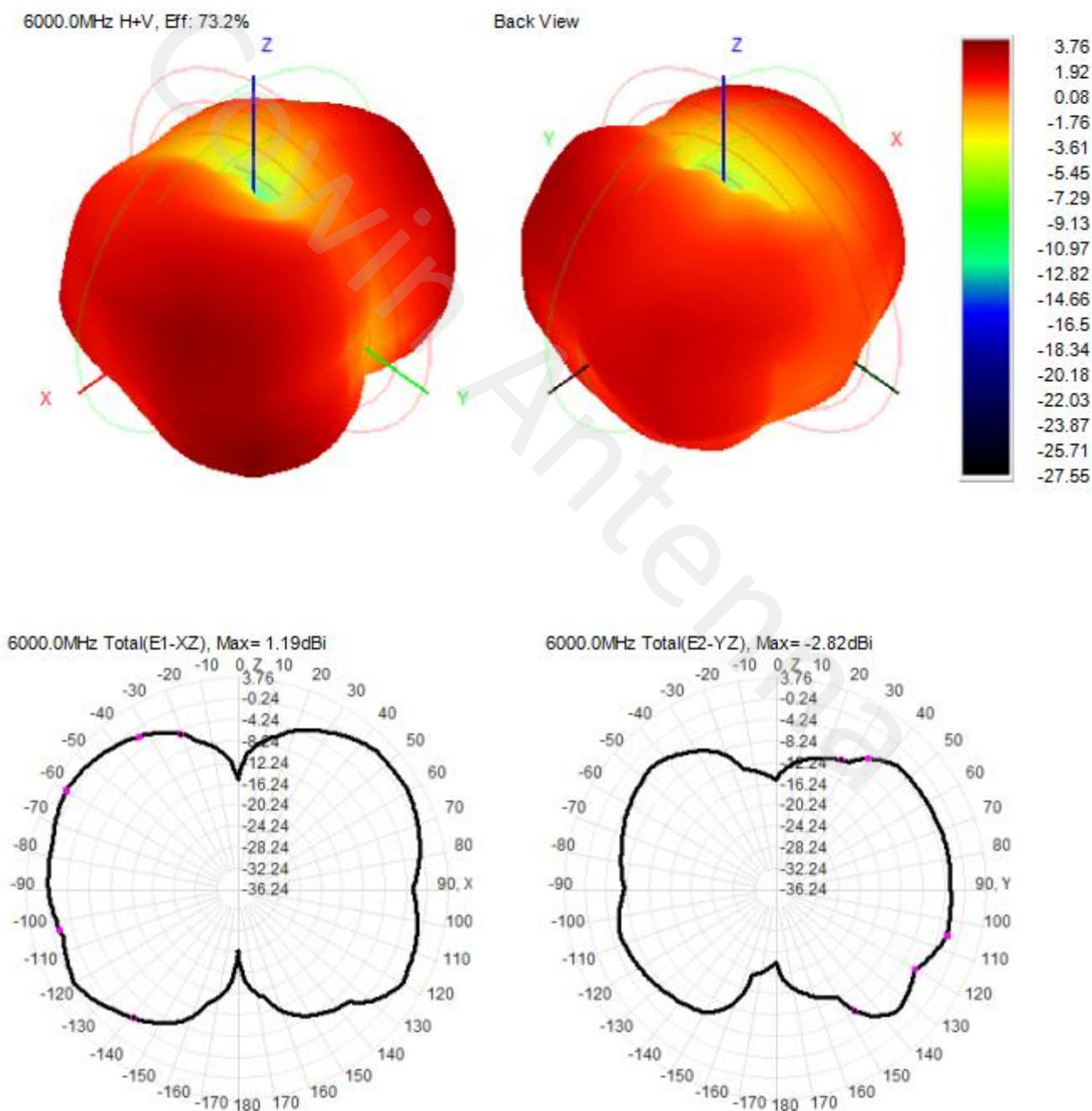


4.4 Data summary

Frequency (MHz)	Gain (dBi)	Efficiency (%)
6000.0	3.76	73.17
6050.0	3.39	68.02
6100.0	3.18	65.43
6150.0	3.10	64.49
6200.0	3.09	64.46
6250.0	2.39	57.34
6300.0	2.73	60.68
6350.0	2.92	61.96
6400.0	2.64	63.47
6450.0	3.20	66.41
6500.0	3.01	67.39
6550.0	3.59	72.84
6600.0	3.54	70.64
6650.0	3.23	71.46
6700.0	4.05	75.55
6750.0	3.46	71.98
6800.0	5.22	94.22
6850.0	4.06	77.90
6900.0	3.24	68.59
6950.0	4.33	75.79
7000.0	3.77	69.94

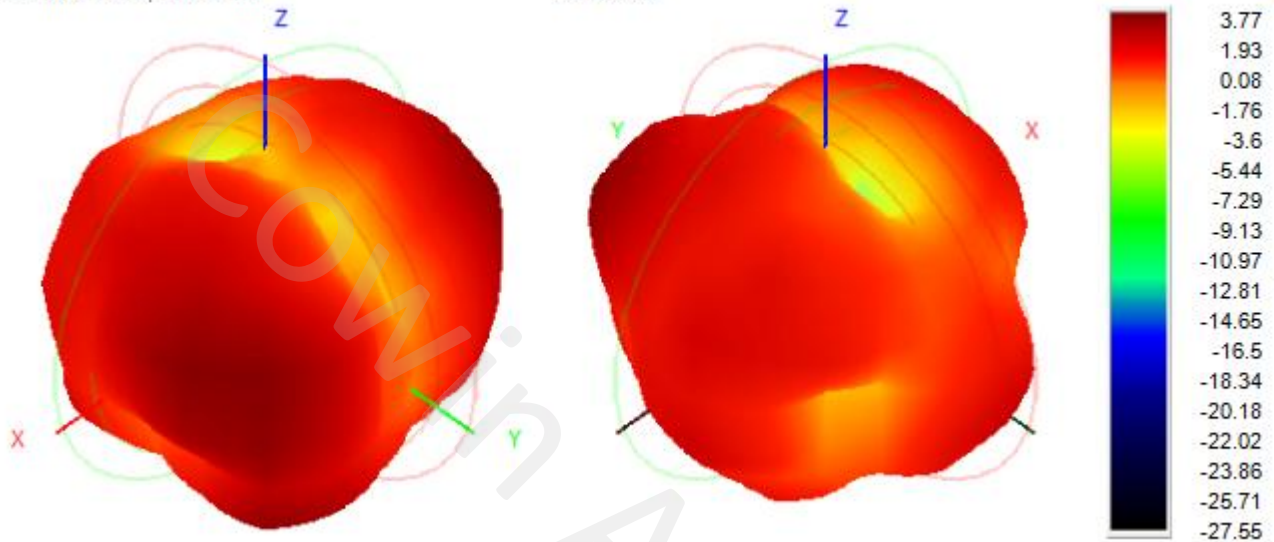
Frequency (MHz)	Gain (dBi)	Efficiency (%)
7050.0	3.95	72.99
7100.0	4.02	72.55
7150.0	3.42	69.62
7200.0	3.87	71.24
7250.0	2.74	65.79
7300.0	3.39	68.55
7350.0	3.12	64.28
7400.0	2.98	67.96
7450.0	3.92	70.48
7500.0	2.54	61.08
7550.0	3.70	72.94
7600.0	3.72	71.01
7650.0	3.21	69.17
7700.0	3.15	72.55
7750.0	3.16	69.30
7800.0	4.31	80.01
7850.0	2.92	70.06
7900.0	3.88	76.35
7950.0	3.38	71.34
8000.0	3.24	66.14

4.5 3D&2D Radiation Patterns



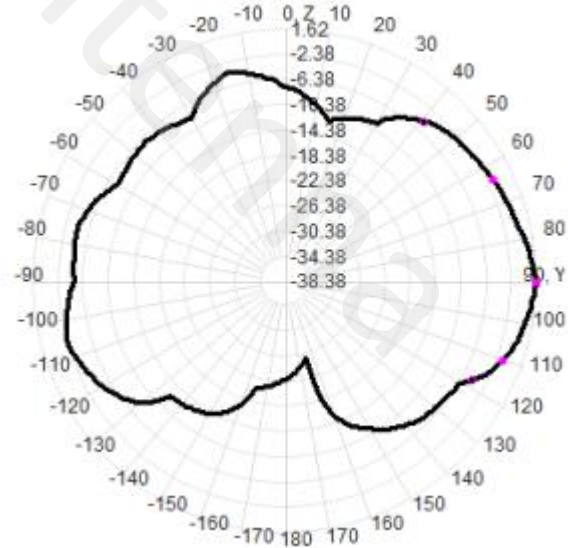
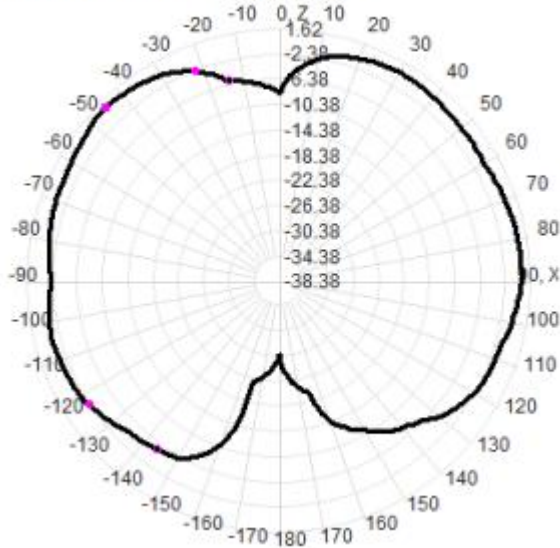
7000.0MHz H+V, Eff: 69.9%

Back View



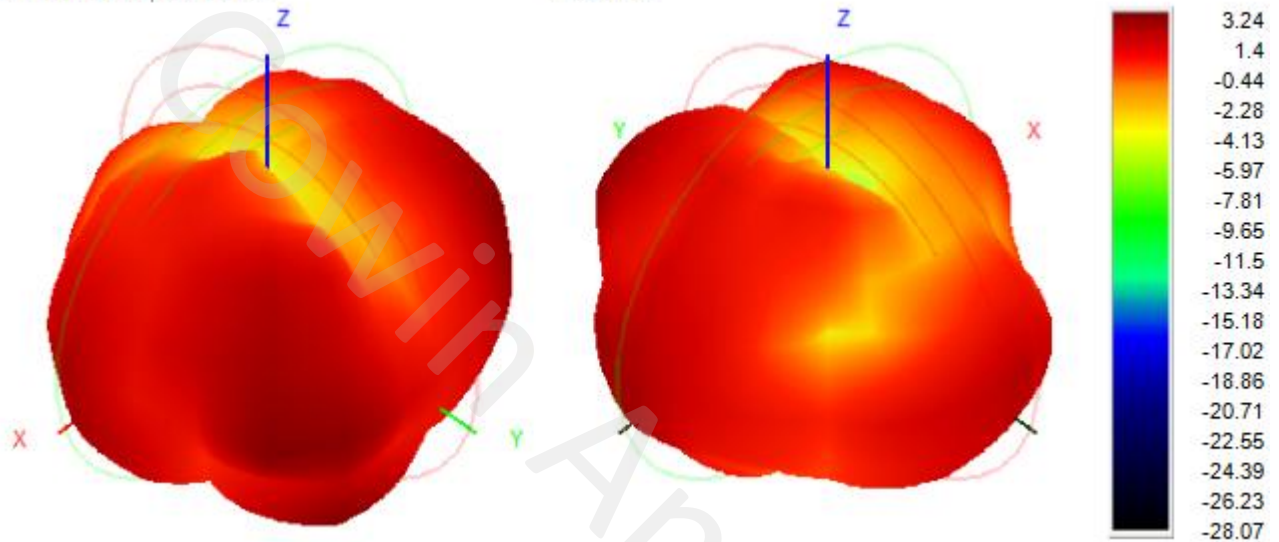
7000.0MHz Total(E1-XZ), Max= 0.56dBi

7000.0MHz Total(E2-YZ), Max= 1.31dBi



8000.0MHz H+V, Eff: 66.1%

Back View



8000.0MHz Total(E1-XZ), Max= 2.30dBi

8000.0MHz Total(E2-YZ), Max= 1.40dBi

