

CW-WZ-0135

4G Magnetic Antenna

Key Features

Frequency: 700-960/1710-2700MHz

90° SMA Male Connector

External Magnetic Base

Dimensions 470*62mm



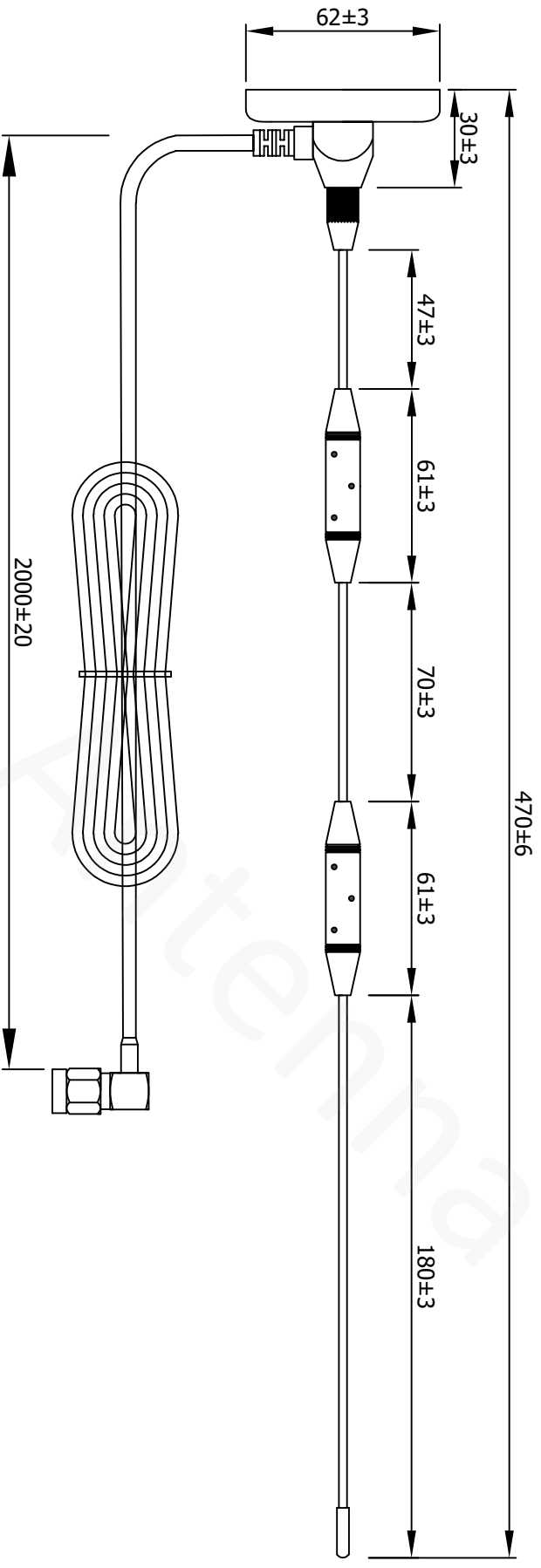
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	700-960/1710-2700MHz
VSWR	4/2
Efficiency (%)	80.5%/91.57%
Peak Gain (dBi)	2.89/5.43
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	90° SMA Male

2. Material and environmental characteristics

Inner structure	N/A
Material of Plastic	N/A
Cable Type	LMR200
Connector Type	90° SMA Male
Dimensions (mm)	470*62MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

REV	Date	Description
X1	2023/10/24	New Issue



Specification(Free Test):
 Frequency Range:700-960MHZ/1710-2700MHZ
 Impedance: 50Ω
 V.S.W.R:≤4/2
 100% Continuity/short and open circuit test
 Materials,parts and process must by environmentally (ROHS)

7	3M double-sided adhesive	60*1MM	2		
6	Magnet	Magnet	1		
5	Tube	φ7.0mm ordinary White	1		
4	Signal Pole	Black steel wire	1		
3	Bottom cover	Iron/Black Paint	1		
2	Cable	LMR 200 Black	1		
1	Connector	90° SMA Male	1		
NO	Name	Description	QTY	Remark	
XX	±5.0	Approved			
X	±3.0	Customer			
.X	±1.0	Part NO.			
.XX	±0.2	Part name	External antenna		
.XXX	±0.1	CW P/NO.	CW-WZ-0135		
		REV	Unit	File	
		X1	m/m	Sheet :	1/1



Cowin Antenna

4. Antenna test parameters

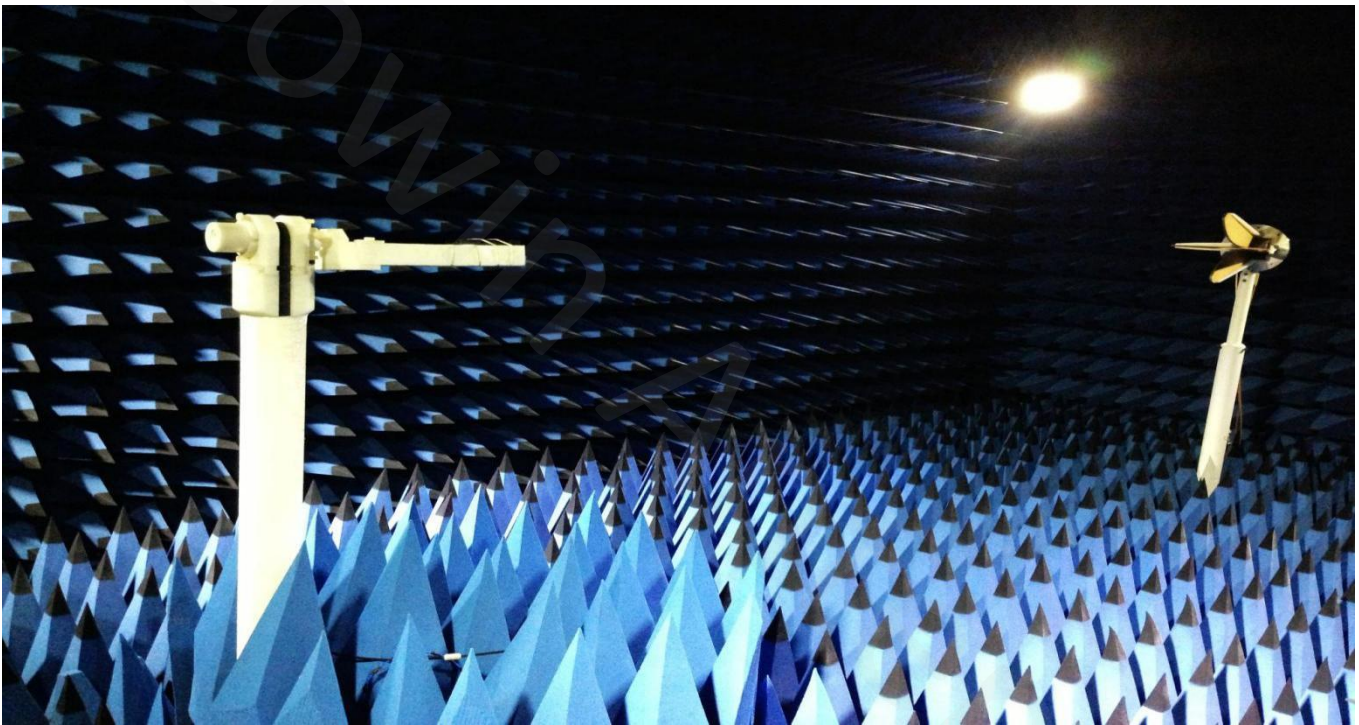
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

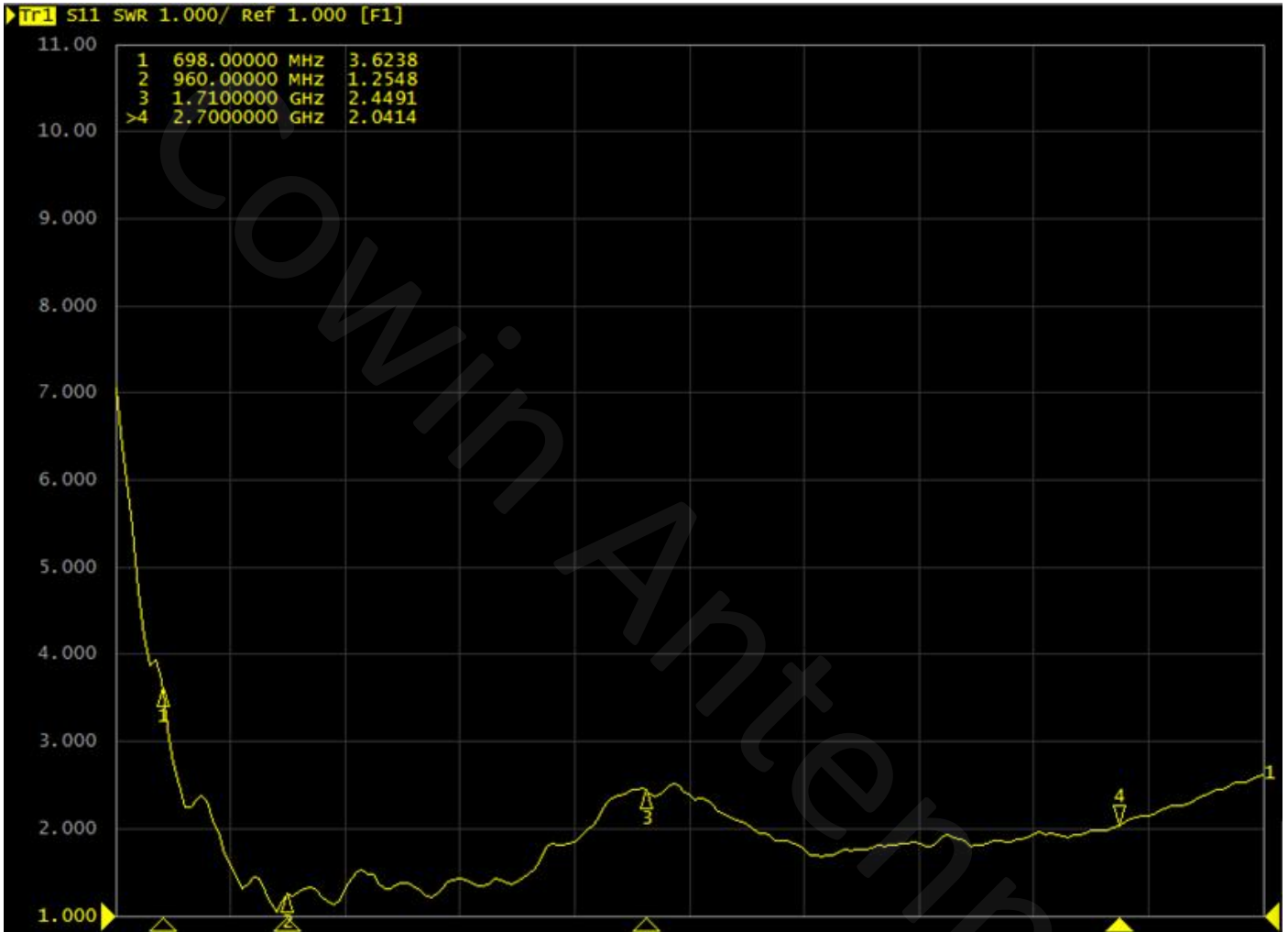
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

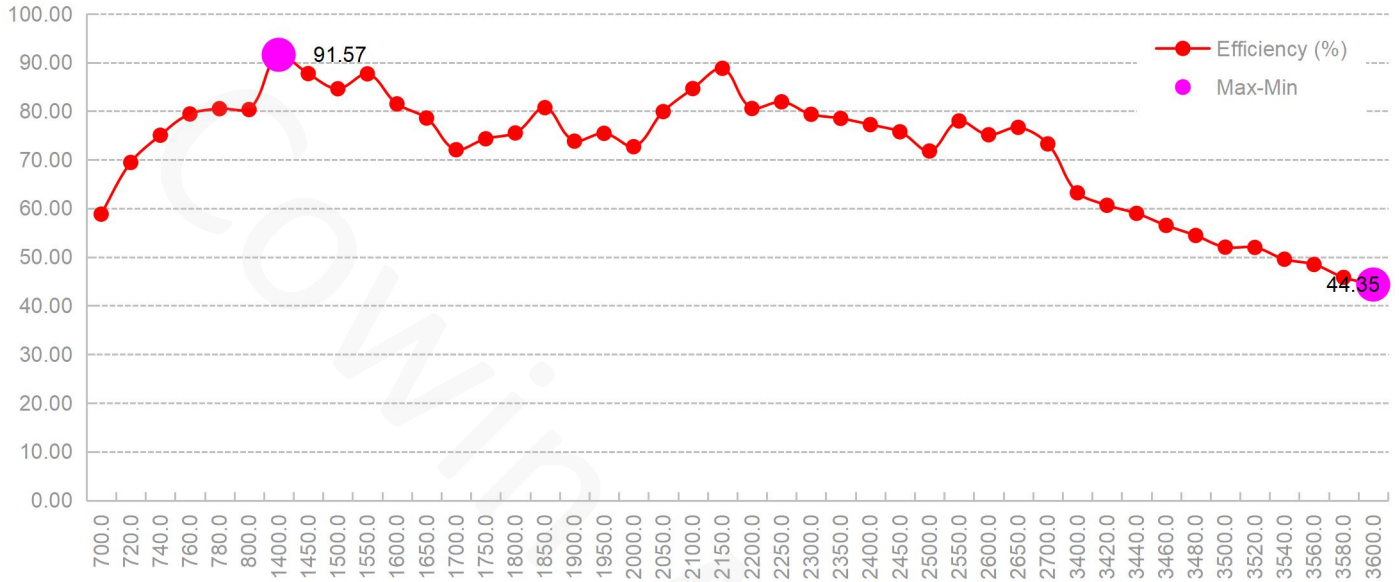
The comprehensive tester is Agilent cmv500



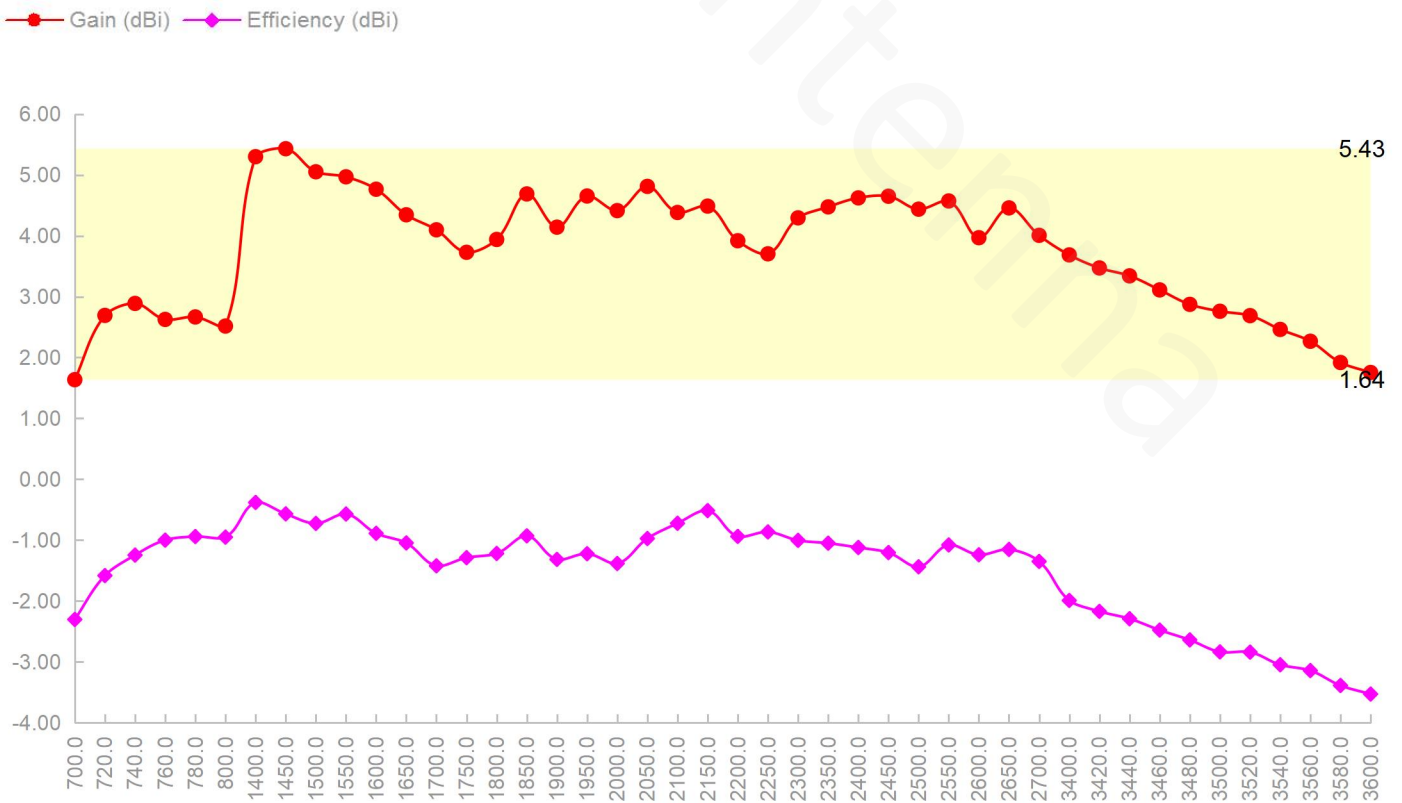
4.1 VSWR



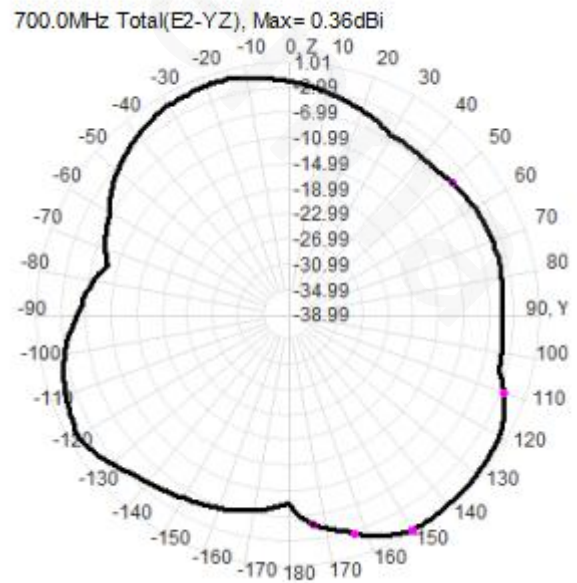
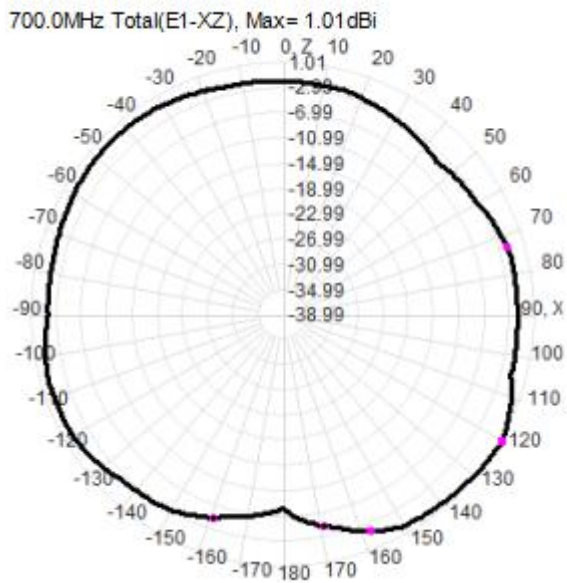
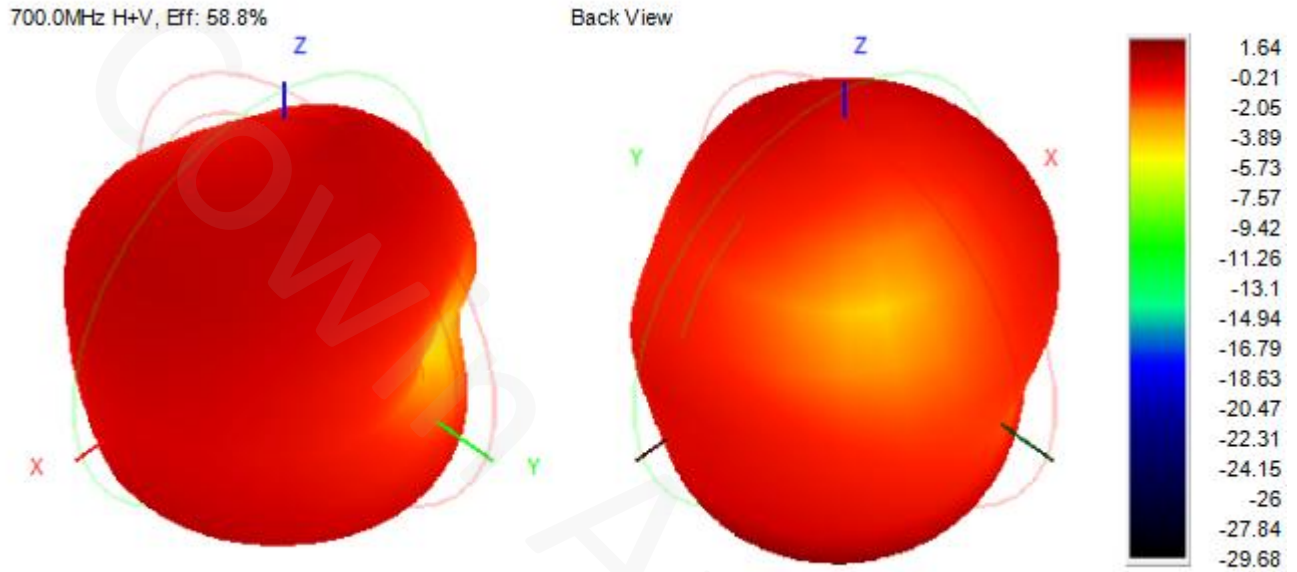
4.2 Efficiency



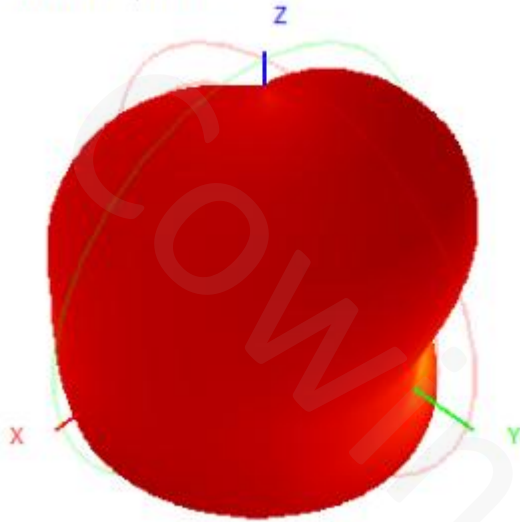
4.3 Peak gain



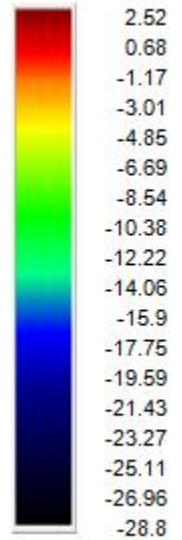
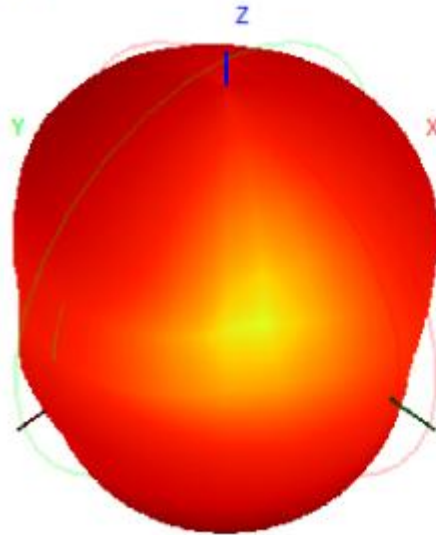
4.4 3D&2D Radiation Patterns



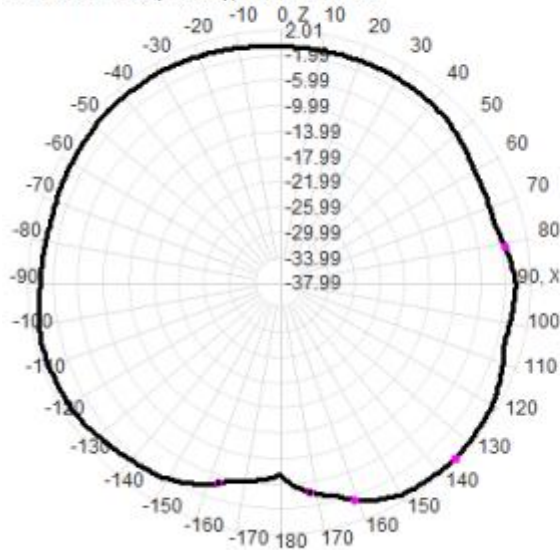
800.0MHz H+V, Eff: 80.3%



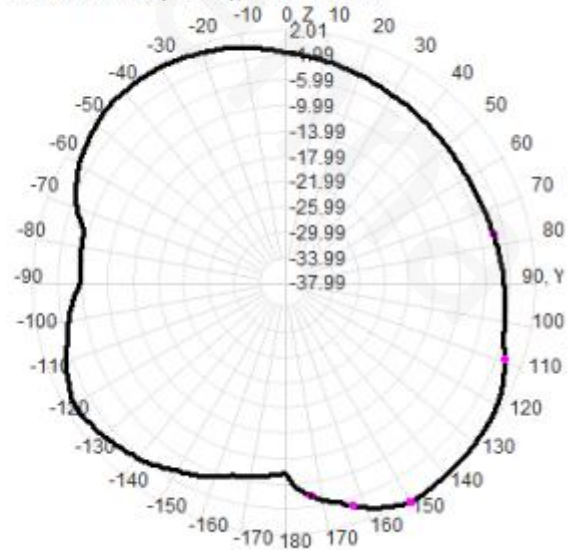
Back View



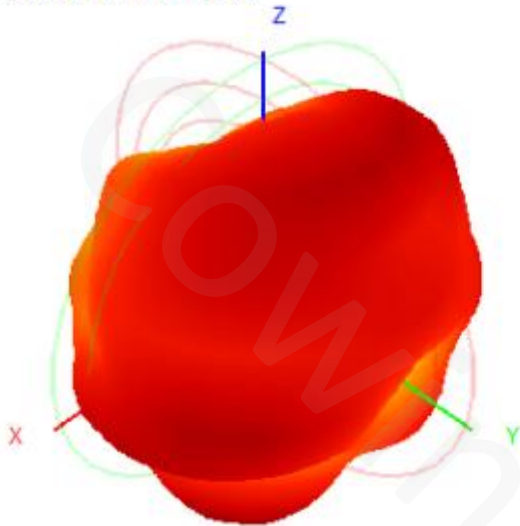
800.0MHz Total(E1-XZ), Max= 1.32dBi



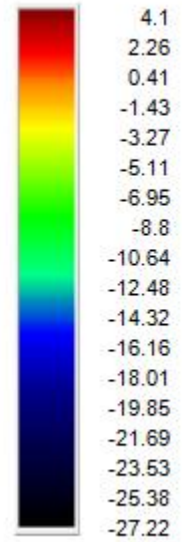
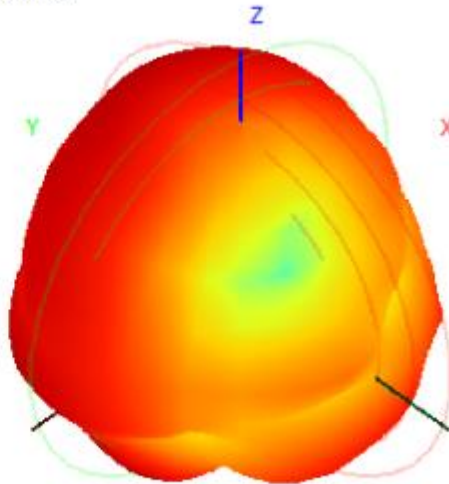
800.0MHz Total(E2-YZ), Max= 2.01dBi



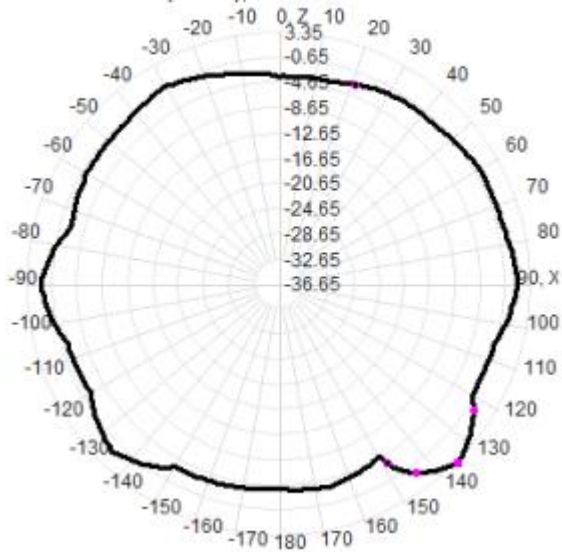
1700.0MHz H+V, Eff: 72.1%



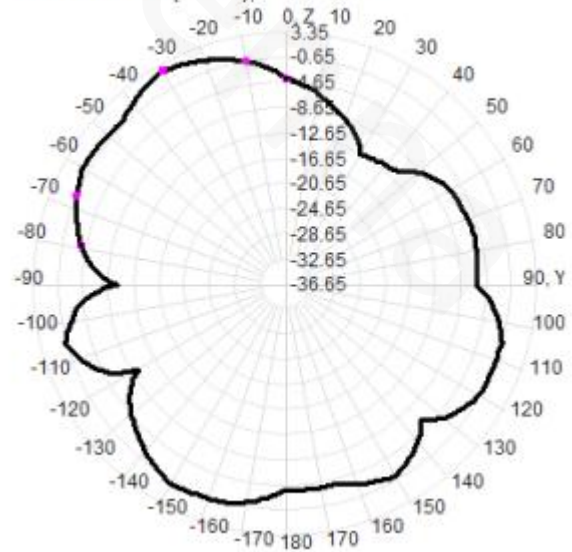
Back View



1700.0MHz Total(E1-XZ), Max= 3.35dBi

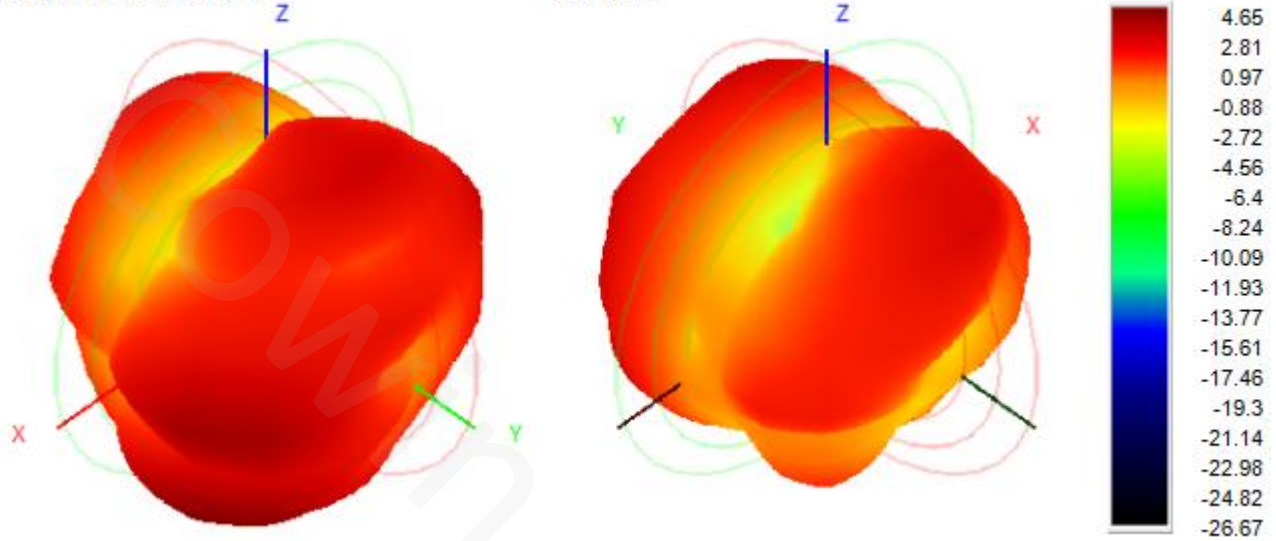


1700.0MHz Total(E2-YZ), Max= 2.30dBi

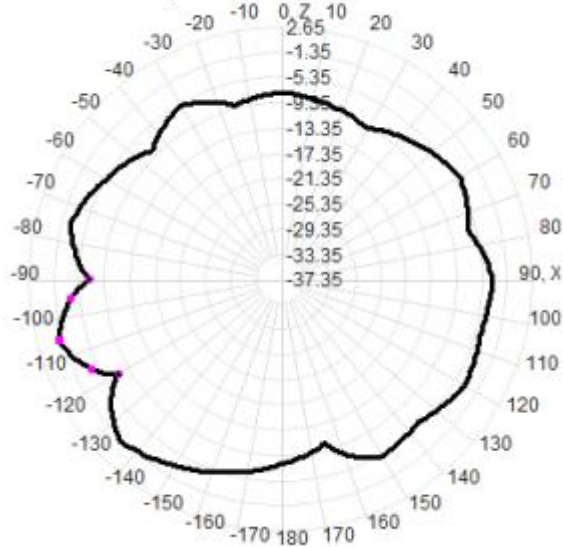


2450.0MHz H+V, Eff: 75.7%

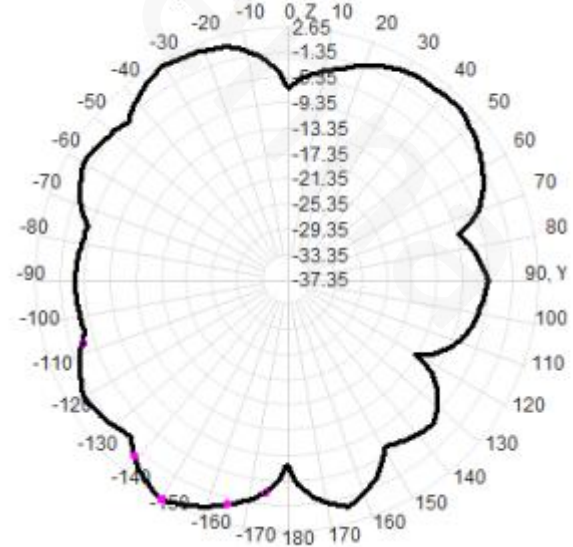
Back View



2450.0MHz Total(E1-XZ), Max= -0.91dBi

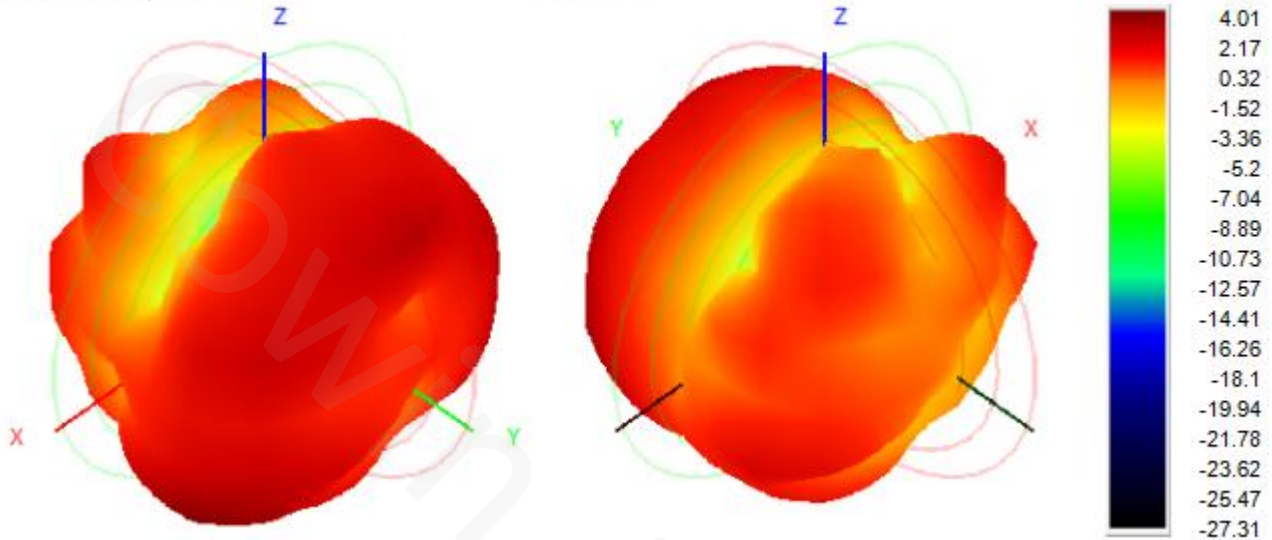


2450.0MHz Total(E2-YZ), Max= 2.65dBi

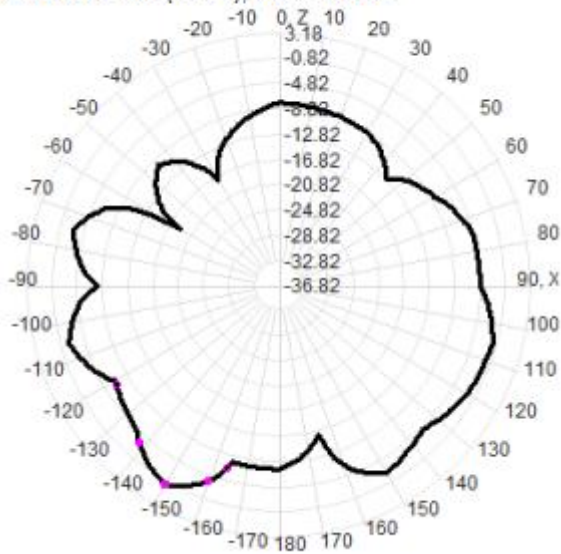


2700.0MHz H+V, Eff: 73.3%

Back View



2700.0MHz Total(E1-XZ), Max= -0.60dBi



2700.0MHz Total(E2-YZ), Max= 2.10dBi

