

CW-NZ-0070

4G Flexible FPC Antenna

Key Features

Frequency: 824-960MHz/1710-1880MHz

IPEX Connector

3M Adhesive

Dimensions 131*12mm

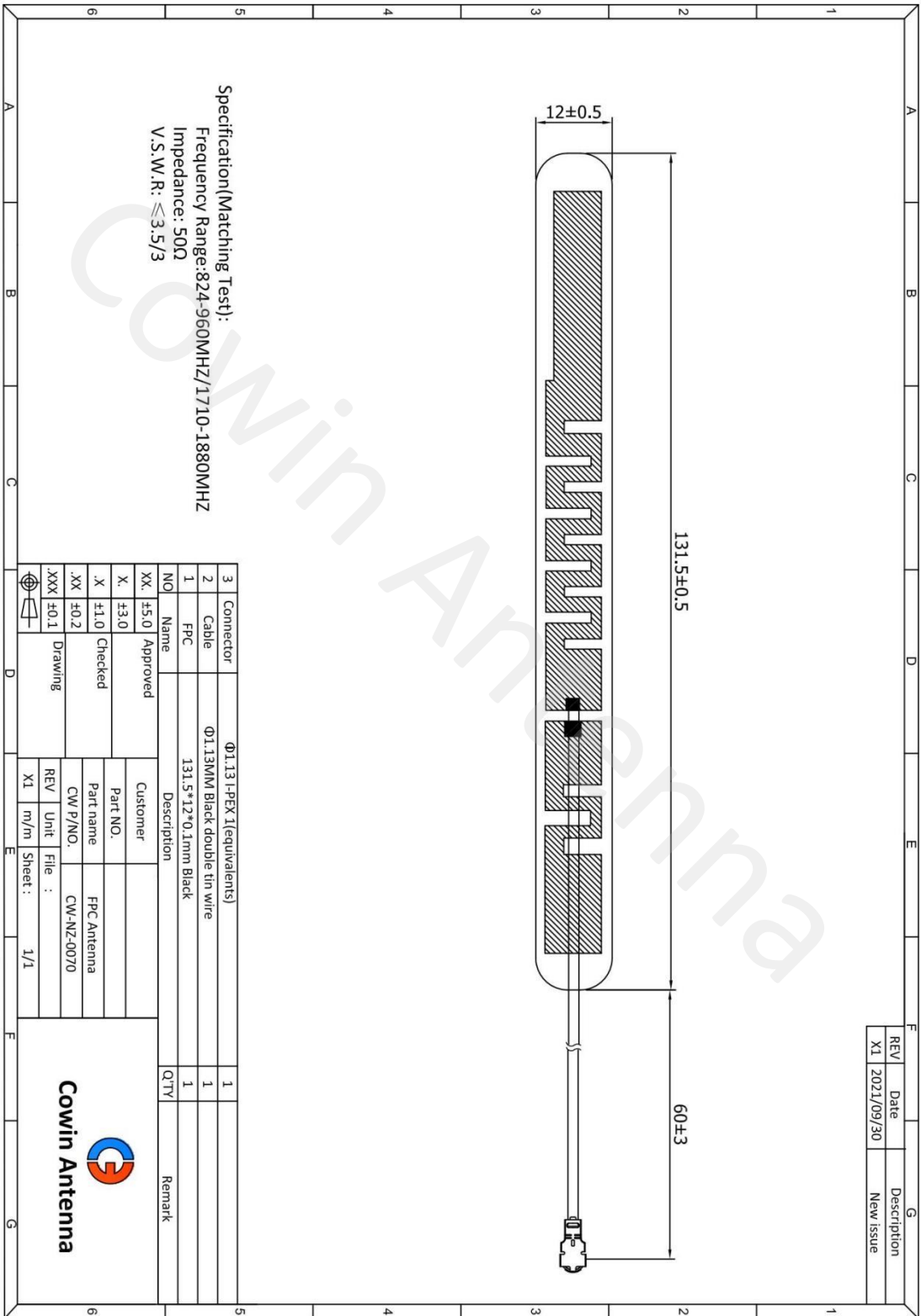


1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	824-960MHz	1710-1880MHz
VSWR	3.5:1	3:1
Efficiency (%)	64.05%	51.95%
Peak Gain (dBi)	2.65	1.78
Impedance (Ohm)		50
Polarisation		Vertical
Max. Input Power (W)		10
Connector Type		IPEX

2. Material and environmental characteristics

inner structure	FPC
Material of Plastic	N/A
Cable Type	RF1.13
Connector Type	IPEX
Dimensions (mm)	131*12MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS



4. Antenna test parameters

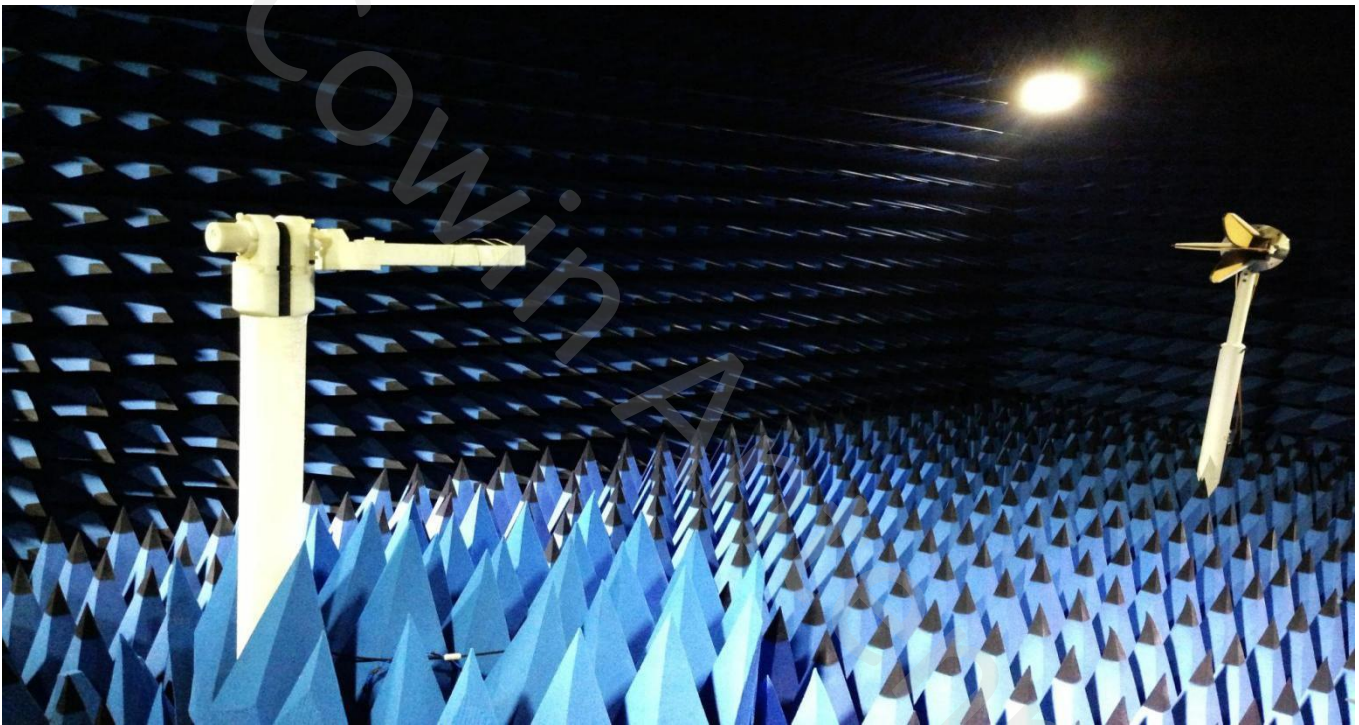
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

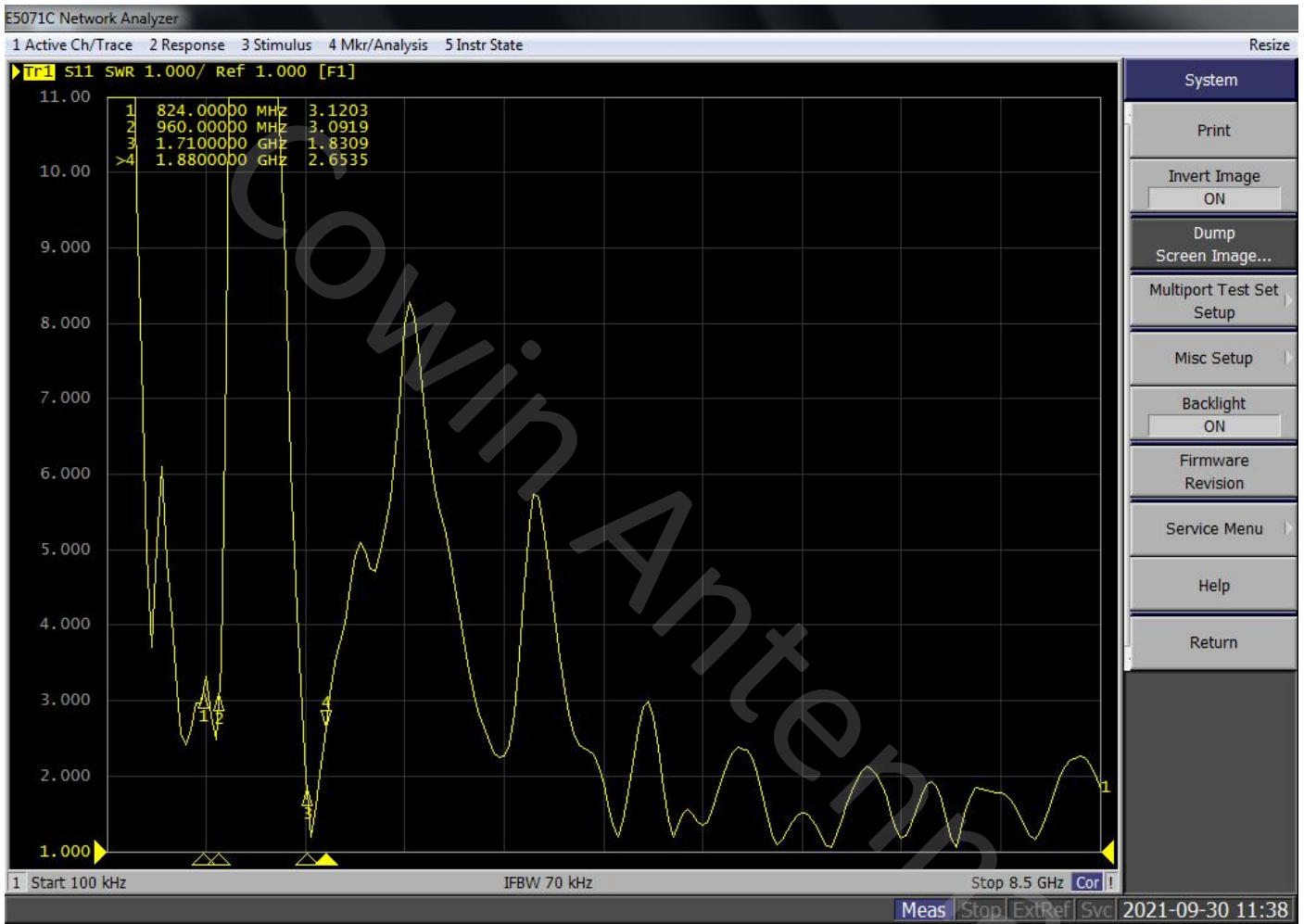
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

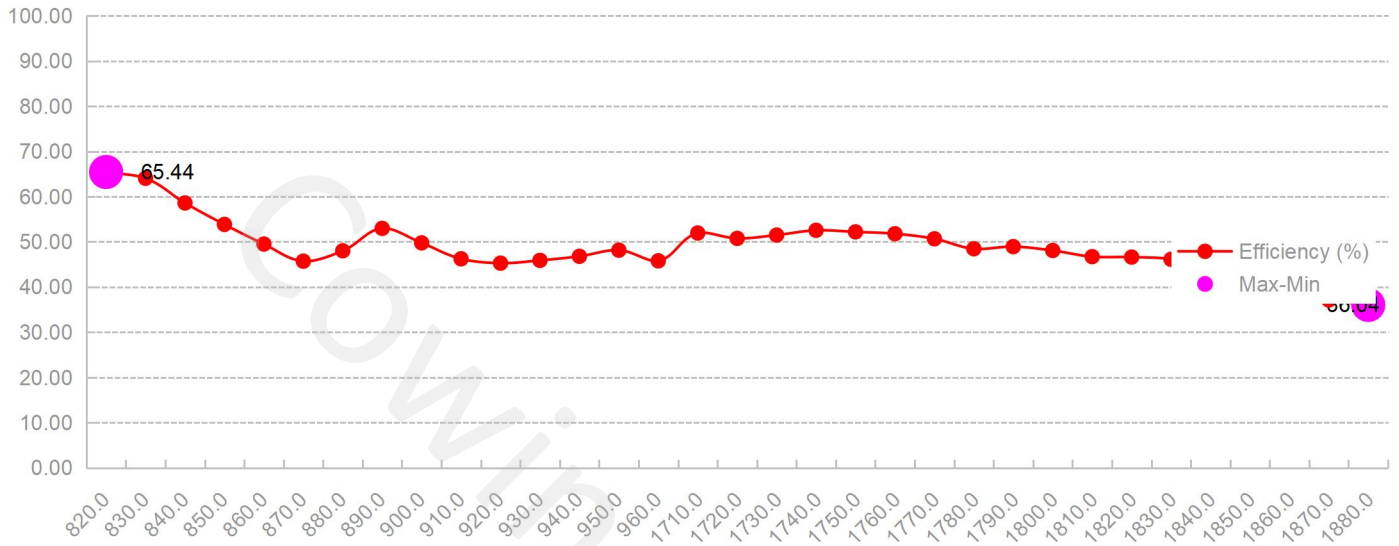
The comprehensive tester is Agilent cmv500



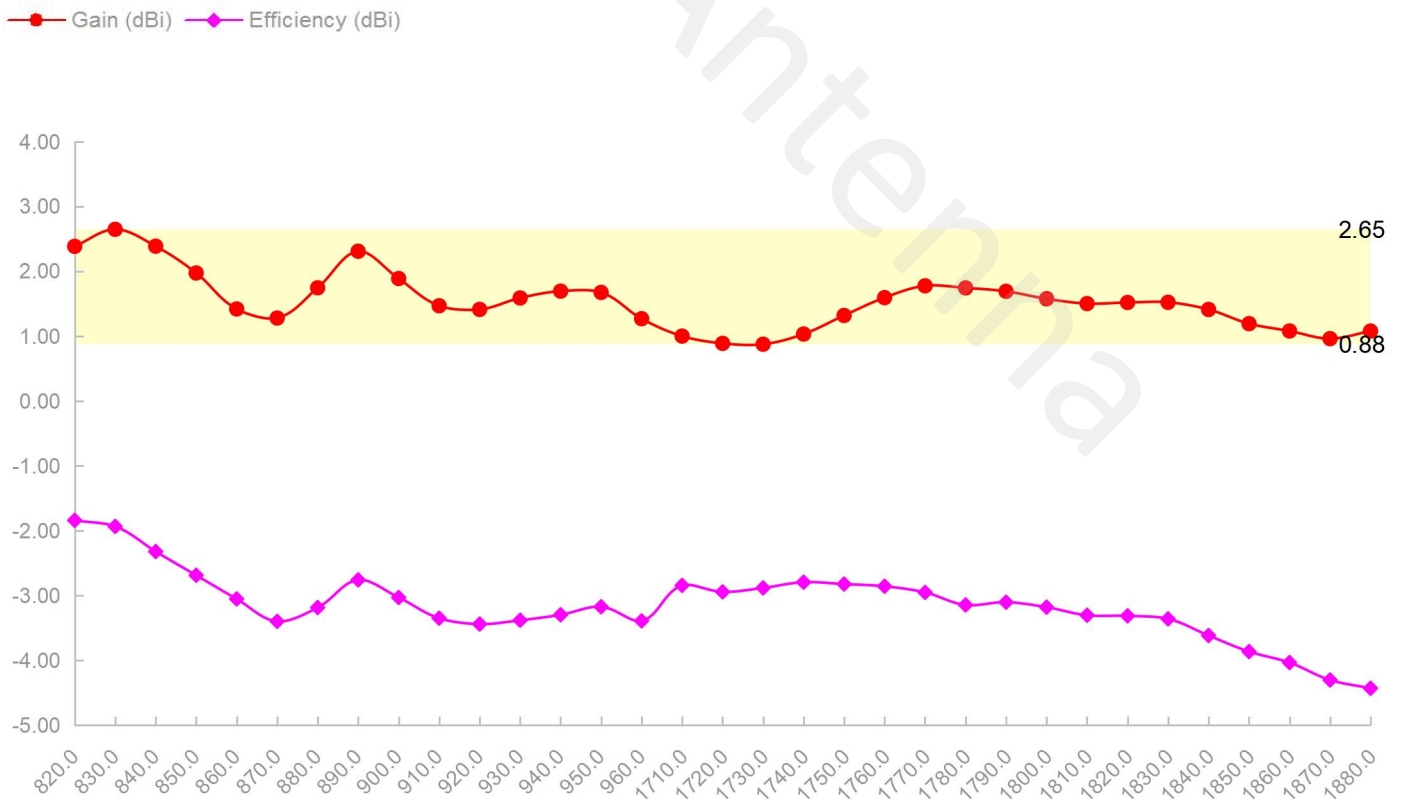
4.1 VSWR



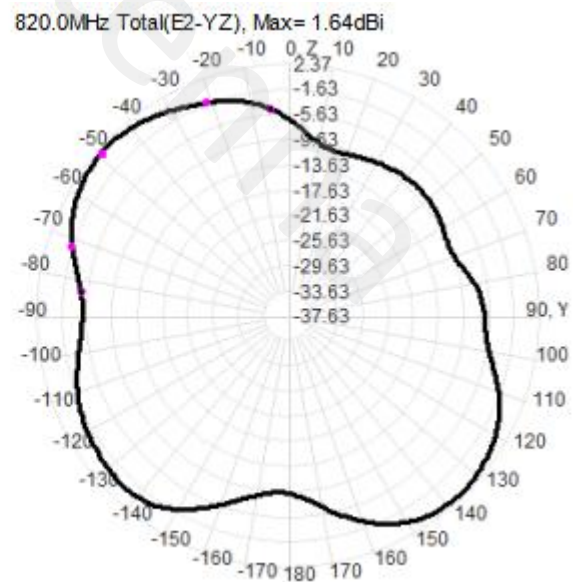
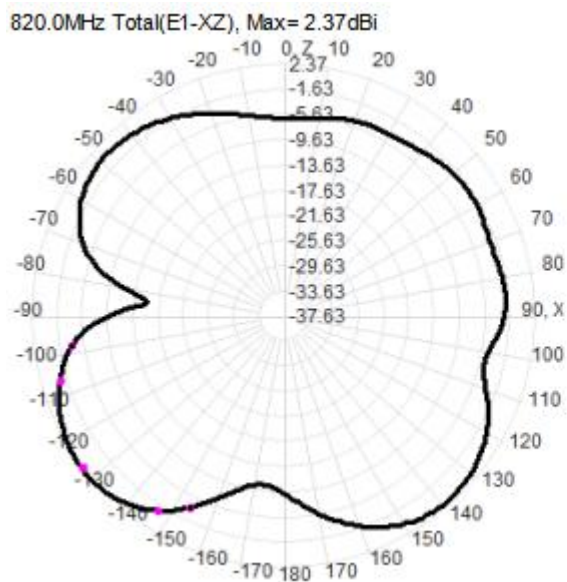
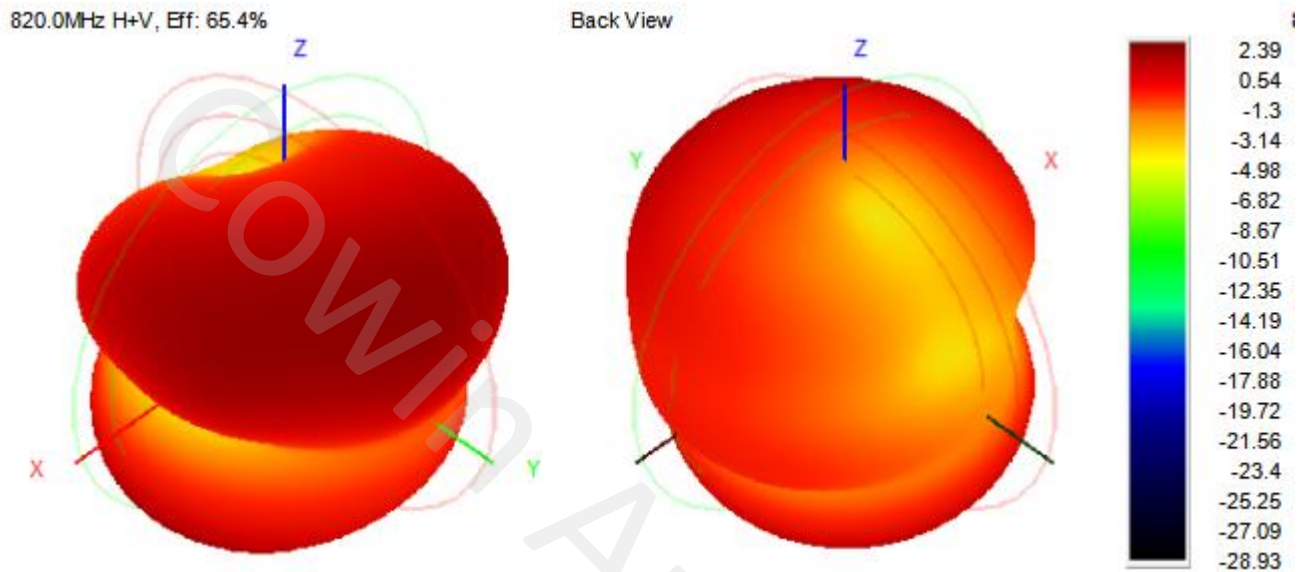
4.2 Efficiency



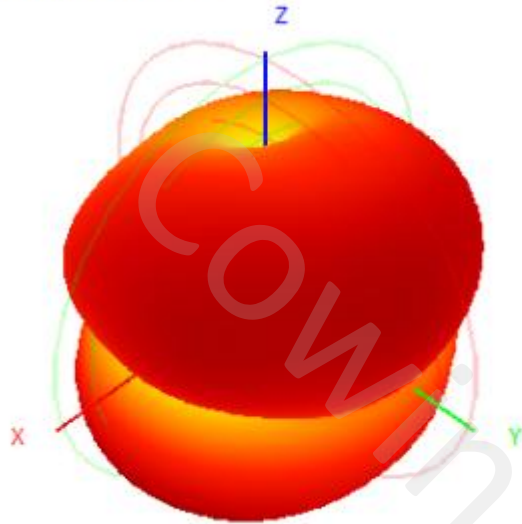
4.3 Peak gain



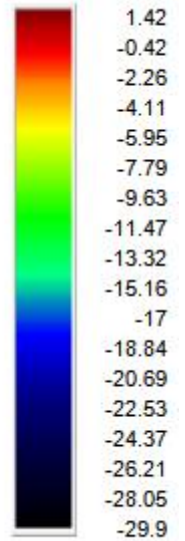
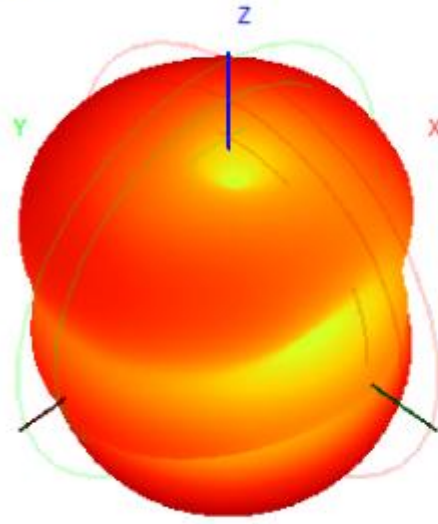
4.4 3D&2D Radiation Patterns



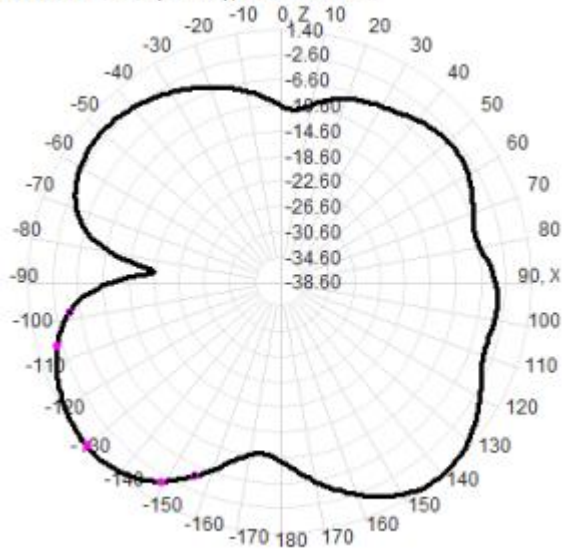
860.0MHz H+V, Eff: 49.5%



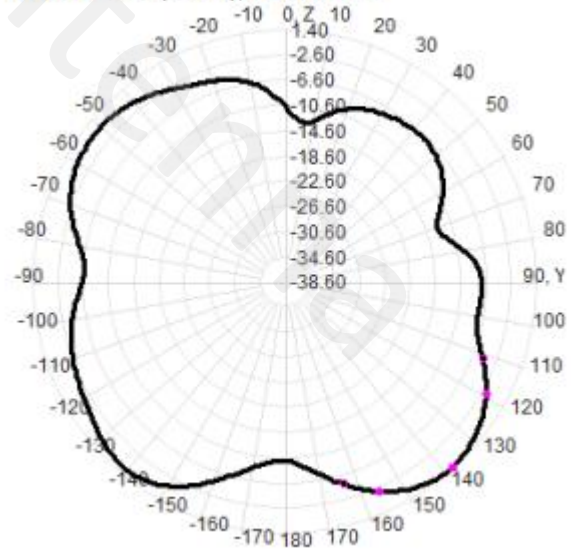
Back View



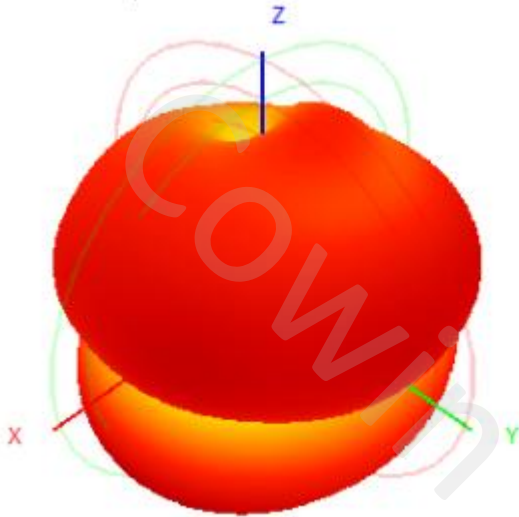
860.0MHz Total(E1-XZ), Max= 1.40dBi



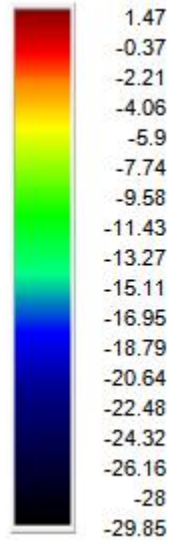
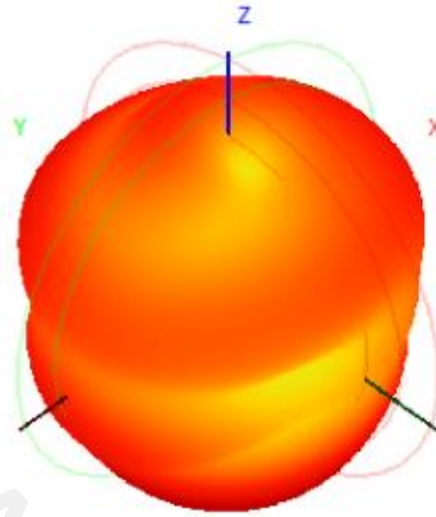
860.0MHz Total(E2-YZ), Max= 0.89dBi



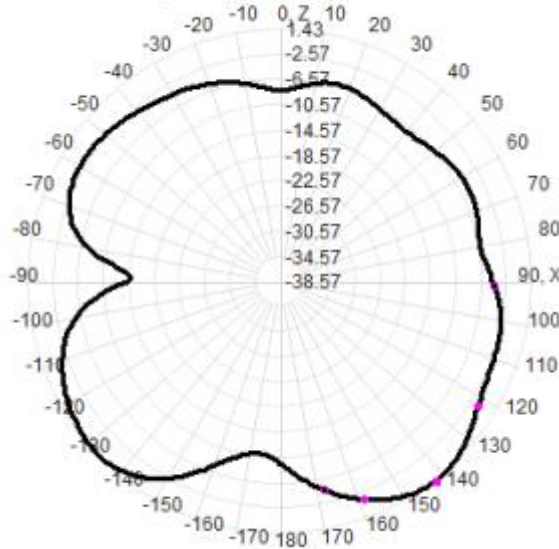
910.0MHz H+V, Eff: 46.2%



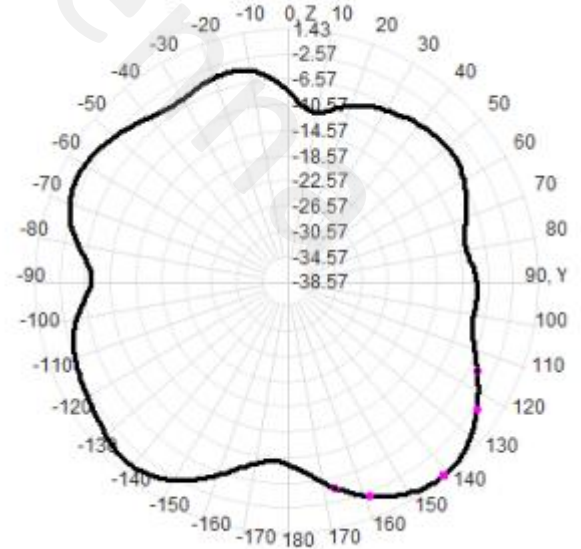
Back View



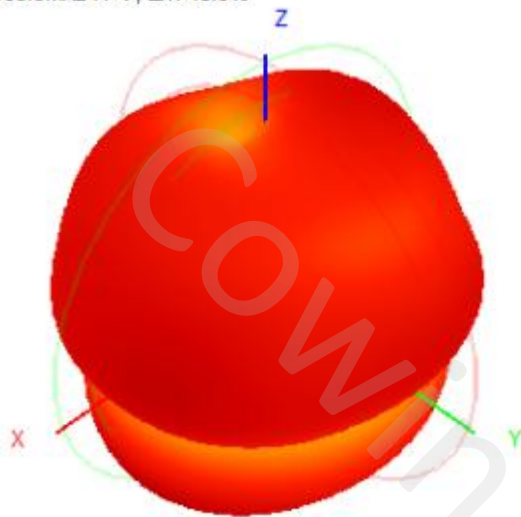
910.0MHz Total(E1-XZ), Max= 1.43dBi



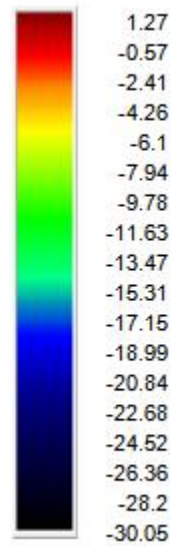
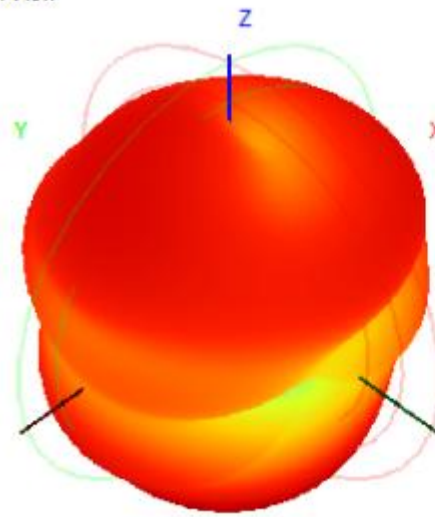
910.0MHz Total(E2-YZ), Max= 0.89dBi



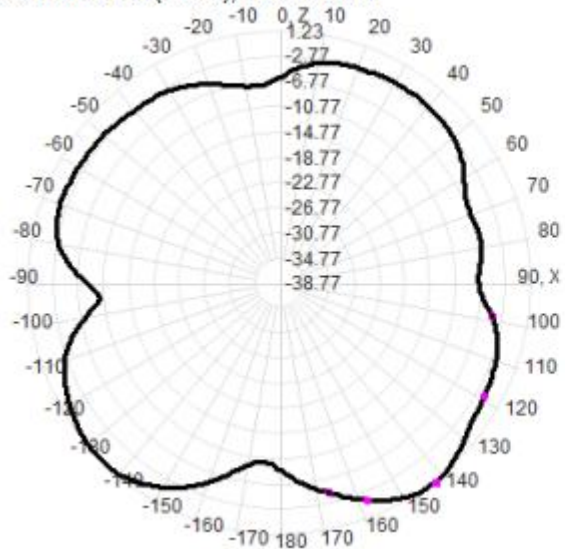
960.0MHz H+V, Eff: 45.8%



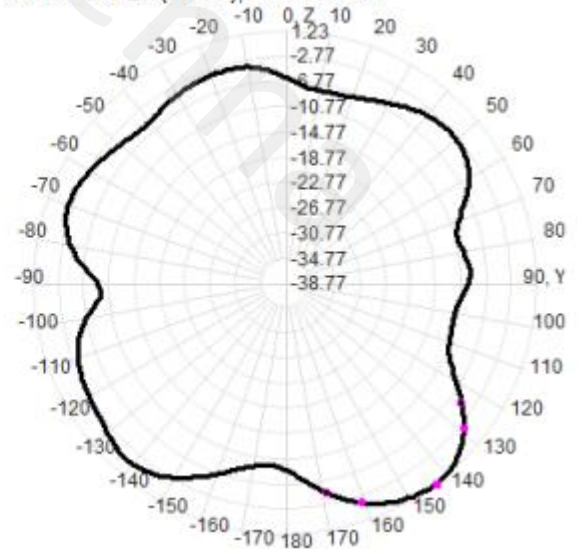
Back View



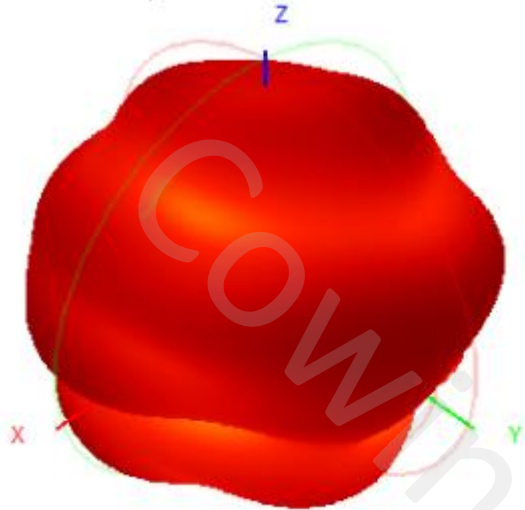
960.0MHz Total(E1-XZ), Max= 1.23dBi



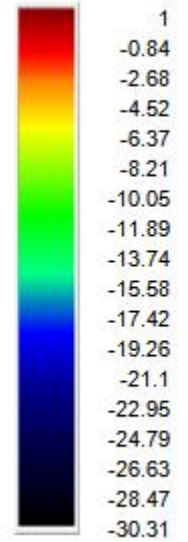
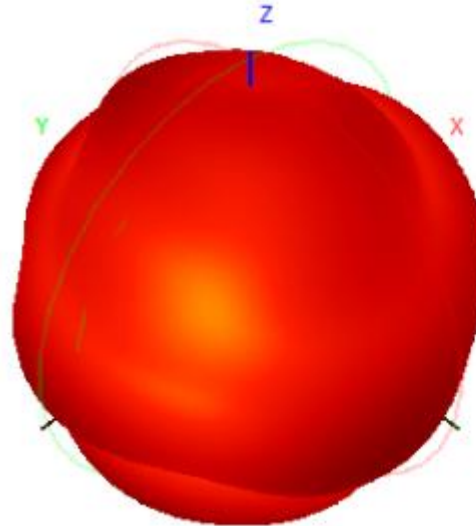
960.0MHz Total(E2-YZ), Max= 0.97dBi



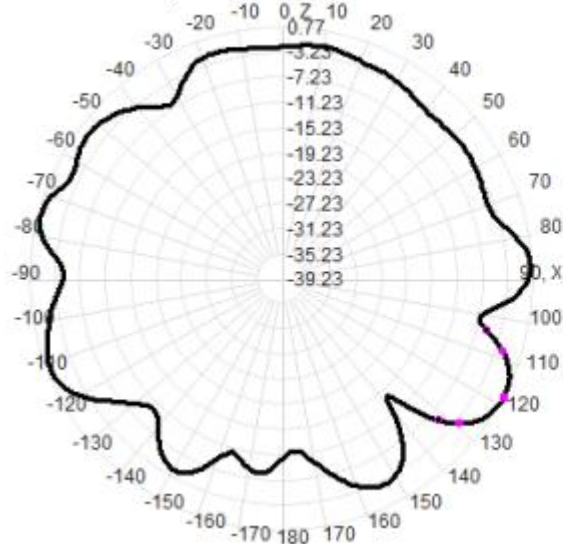
1710.0MHz H+V, Eff: 51.9%



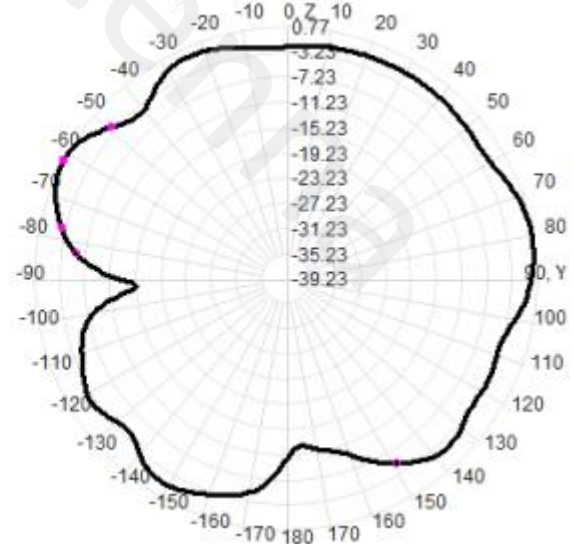
Back View



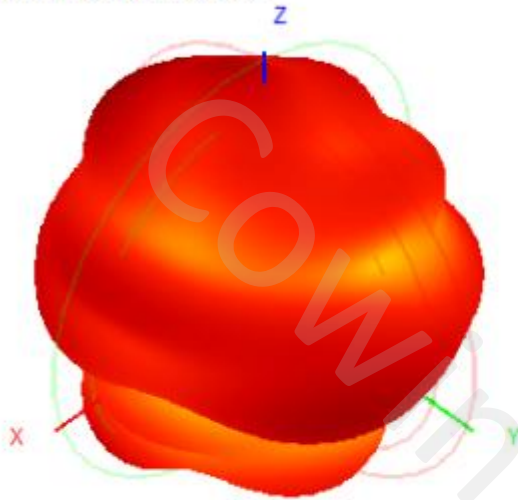
1710.0MHz Total(E1-XZ), Max= 0.64dBi



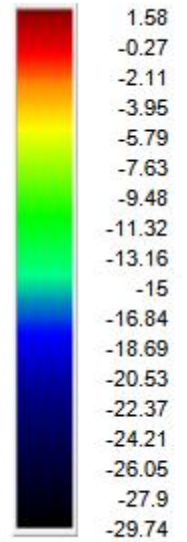
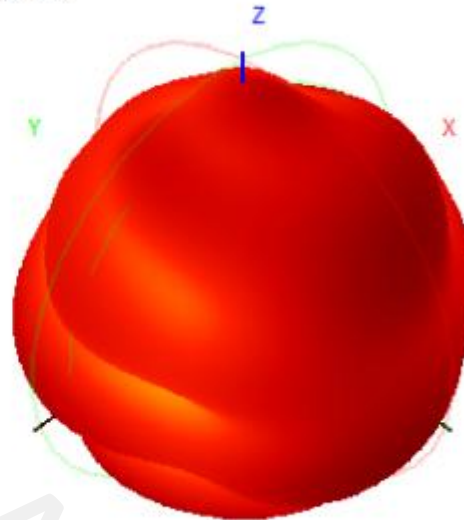
1710.0MHz Total(E2-YZ), Max= 0.77dBi



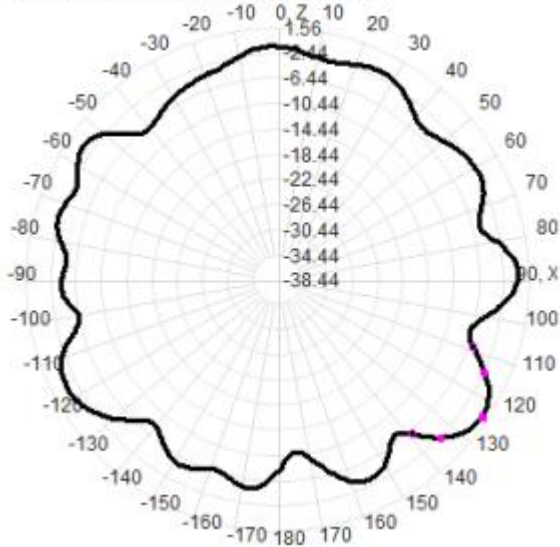
1800.0MHz H+V, Eff: 48.1%



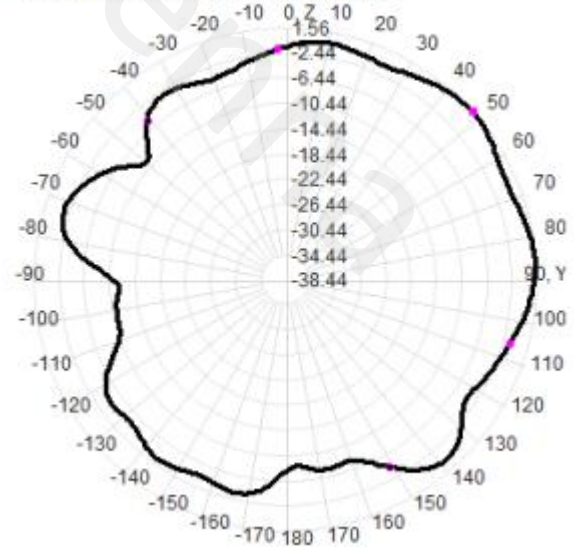
Back View



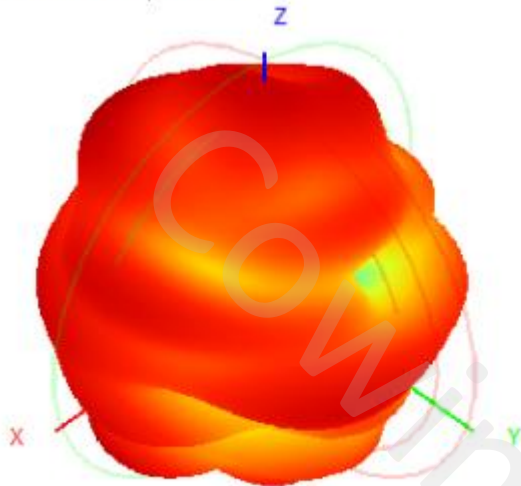
1800.0MHz Total(E1-XZ), Max= 0.44dBi



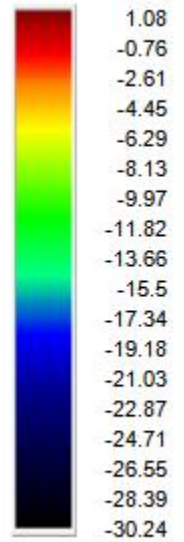
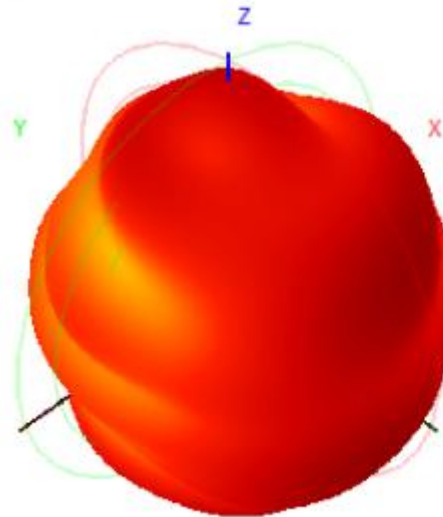
1800.0MHz Total(E2-YZ), Max= 1.39dBi



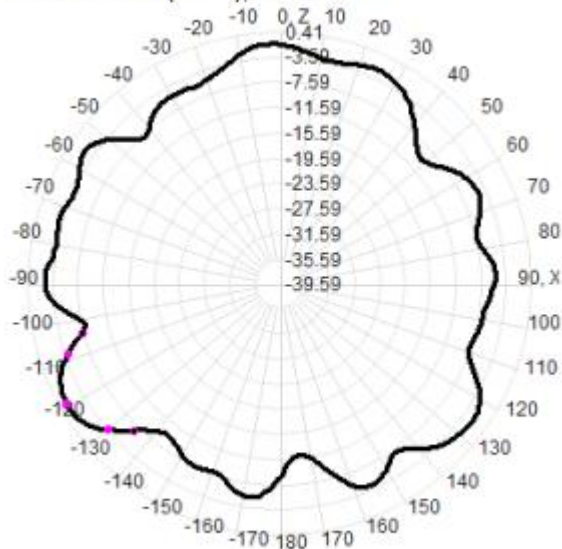
1880.0MHz H+V, Eff: 36.0%



Back View



1880.0MHz Total(E1-XZ), Max= -0.80dBi



1880.0MHz Total(E2-YZ), Max= 0.38dBi

