CW-WZ-0057

4G External Antenna

Cowin Antenna

Key Features

Frequency: 824-960MHz/1710-2700MHz

SMA Male Connector

External Rubber

Dimensions 192*16 mm

1. Antenna Electrical Characteristics

Band (MHz)		
Frequency (MHz)	824-960MHz	1710-2700MHz
VSWR	3:1	3:1
Efficiency (%)	71.19%	62.79%
Peak Gain (dBi)	2.62	3.16
Impendance (Ohm)	50	
Polarisation	Vertical	
Max. Input Power (W)	10	
Connector Type	SMA male	

2. Material and environmental characteristics

Material of PCB	FR4
Material of Plastic	PC+PBT/ABS
Cable Type	RG178
Connector Type	SMA male
Dimensions (mm)	192*16MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

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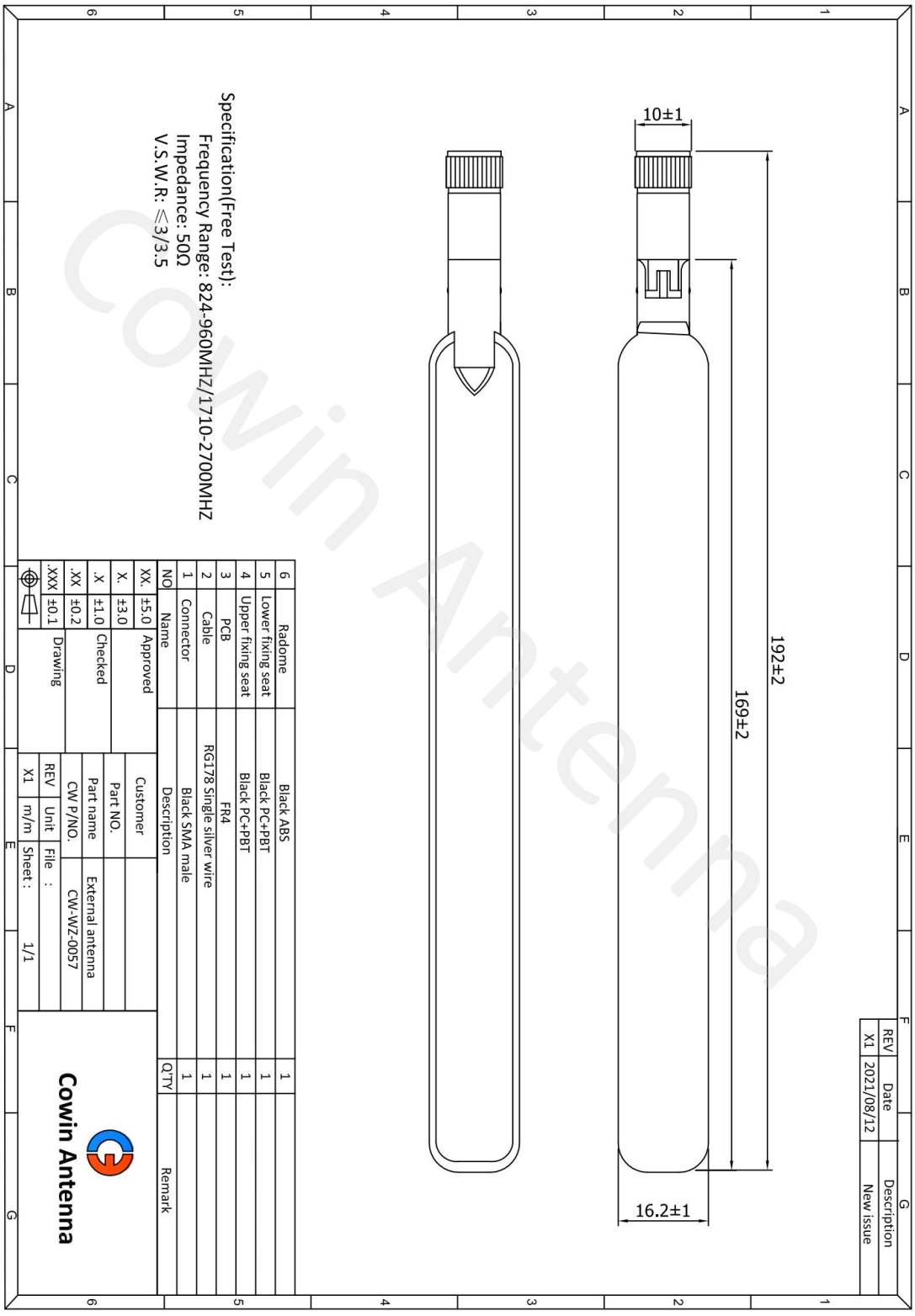
10±1
192±2
169±2
16.2±1
Specification(Free Test):
Frequency Range: 824-960MHZ/1710-2700MHZ
Impedance: 50Ω
V.S.W.R: ⩽3/3.5
6 Radome Black ABS 1
5 Lower fixing seat Black PC+PBT 1
4 Upper fixing seat Black PC+PBT 1
3 PCB FR4 1
2 Cable RG178 Single silver wire 1
1 Connector Black SMA male 1
NO. Name Description Q'TY Remark
XX. ±5.0 Approved
X. ±3.0
.X ±1.0 Checked
.XX ±0.2
.XXX ±0.1 Drawing
Customer
Part NO.
Part name External antenna
CW P/NO. CW-WZ-0057
REV Unit File :
X1 m/m Sheet : 1/1
Cowin Antenna
REV Date Description
X1 2021/08/12 New issue
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4. Antenna test parameters

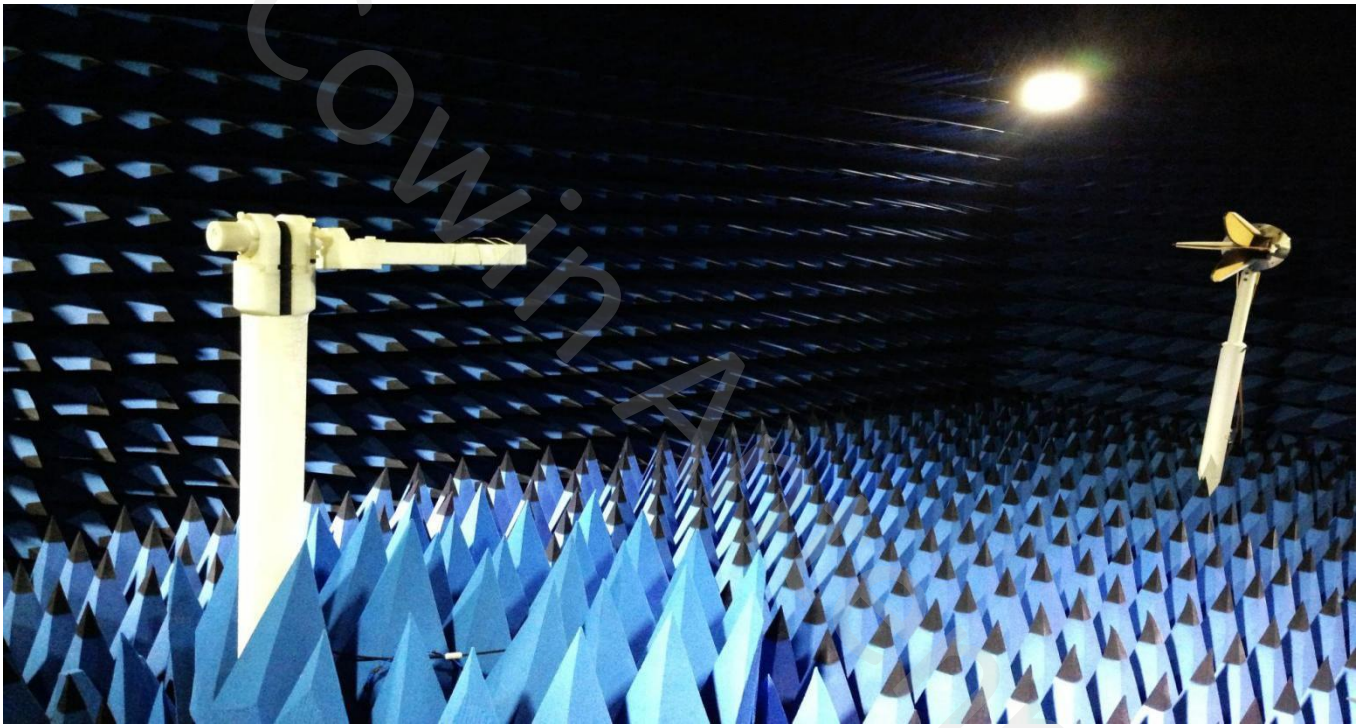
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

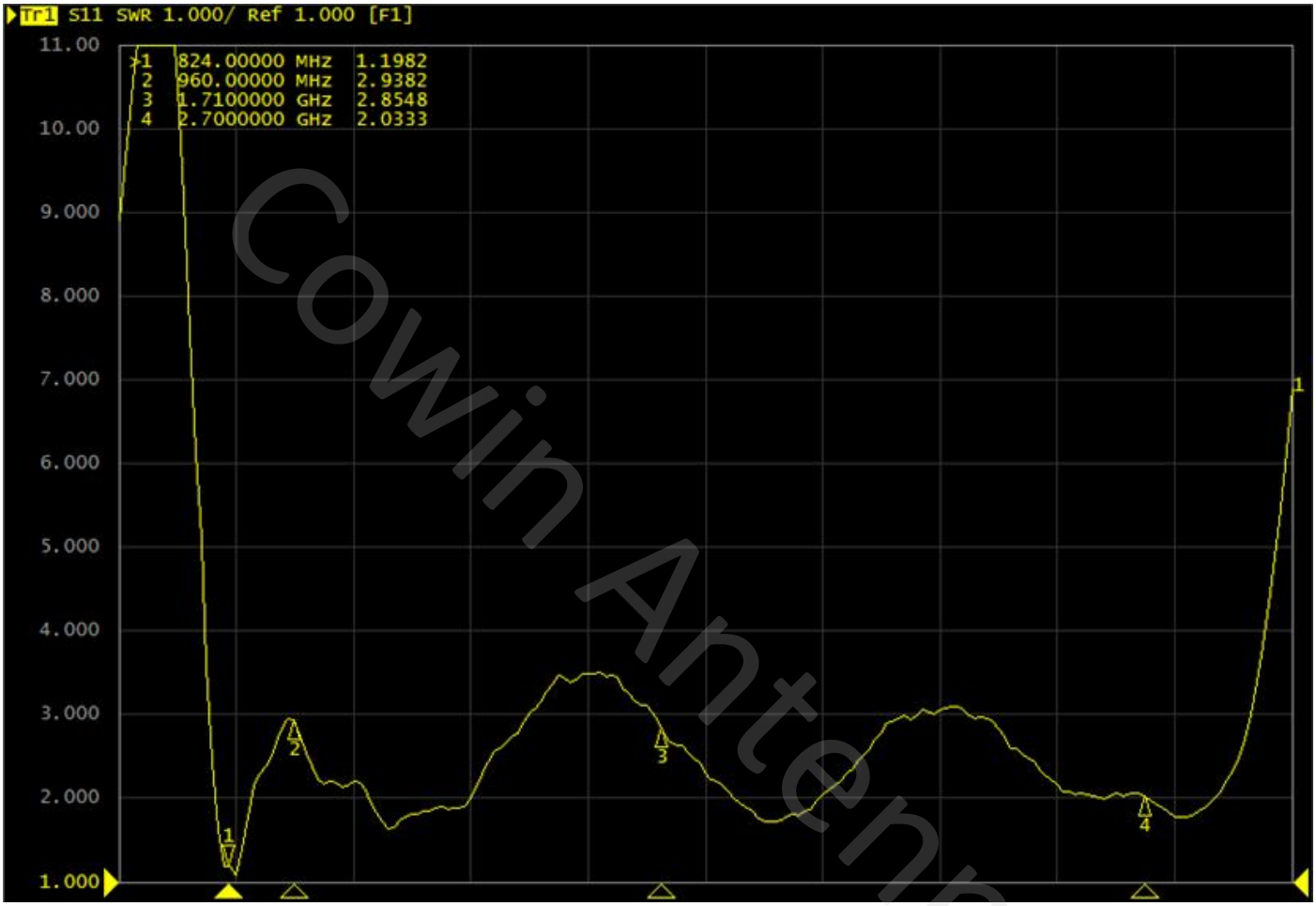
The comprehensive tester is Agilent cmv500







4.1 VSWR



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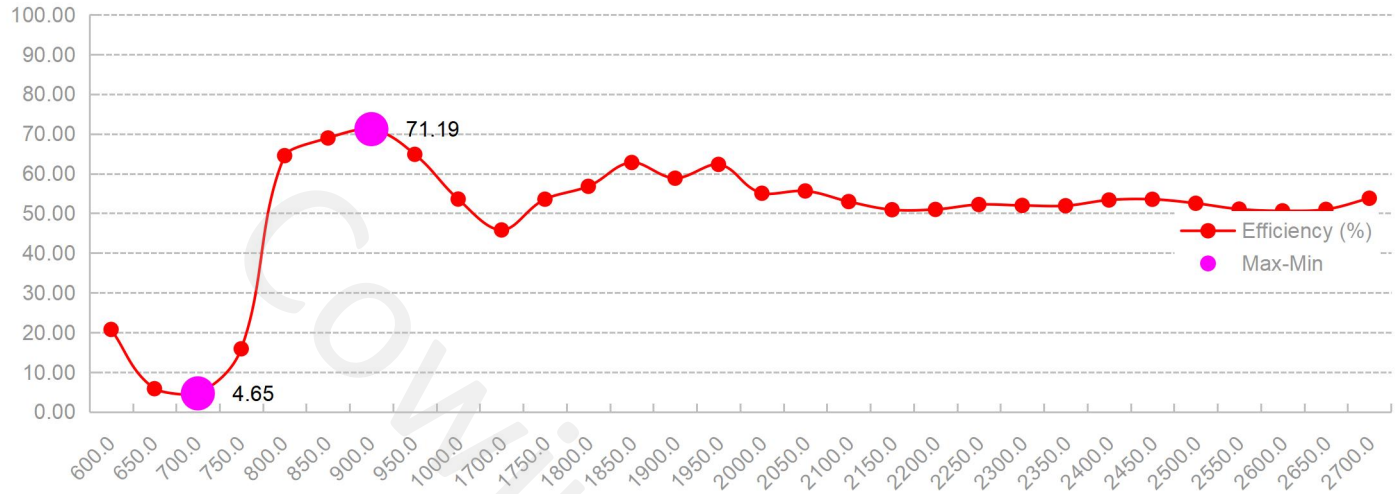
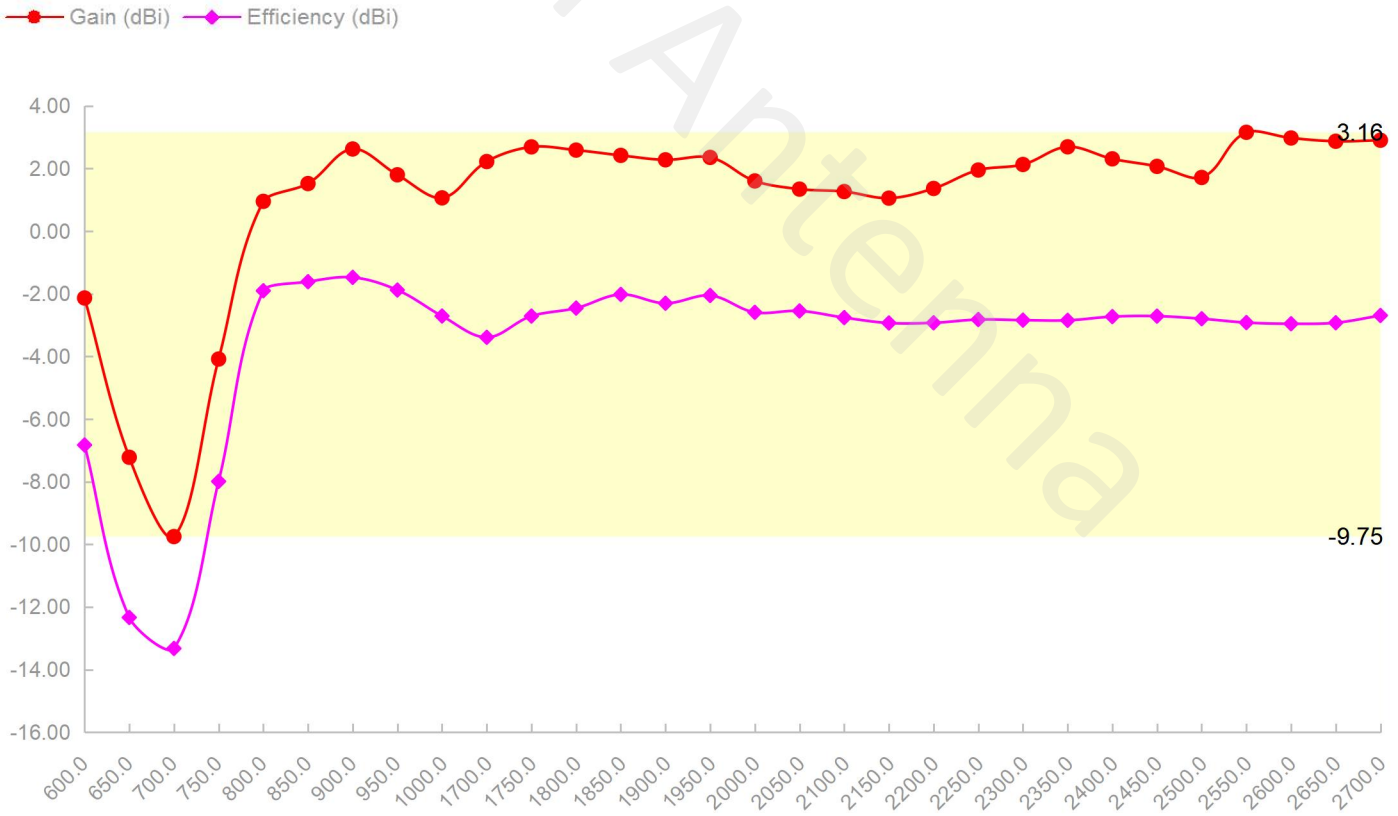
4.2 Efficiency



4.3 Peak gain



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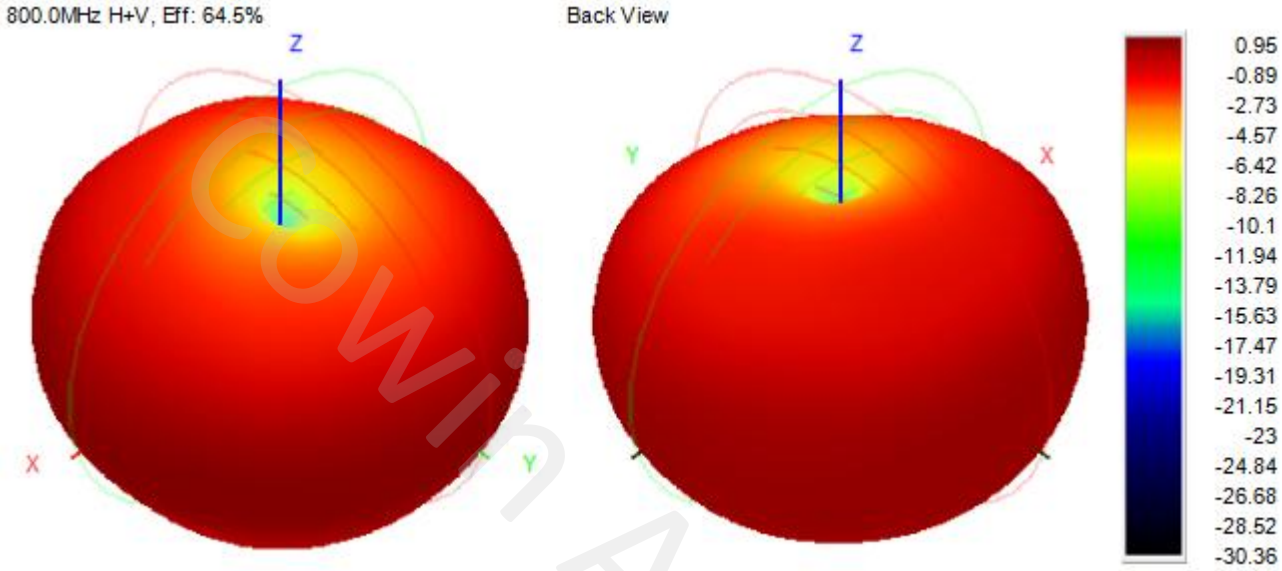
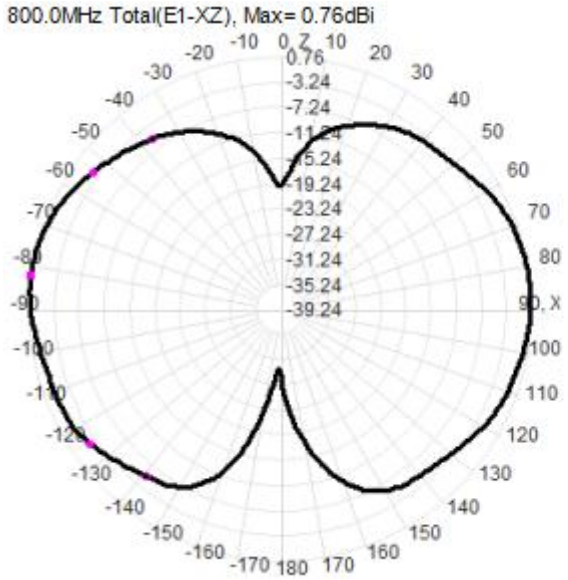
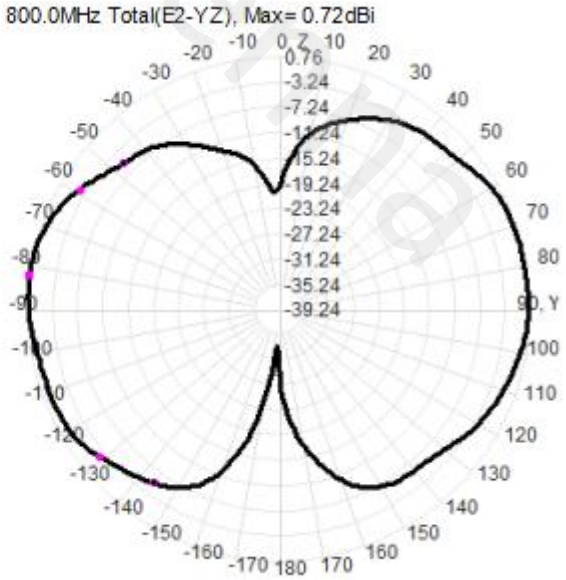
4.4 3D&2D Radiation Patterns







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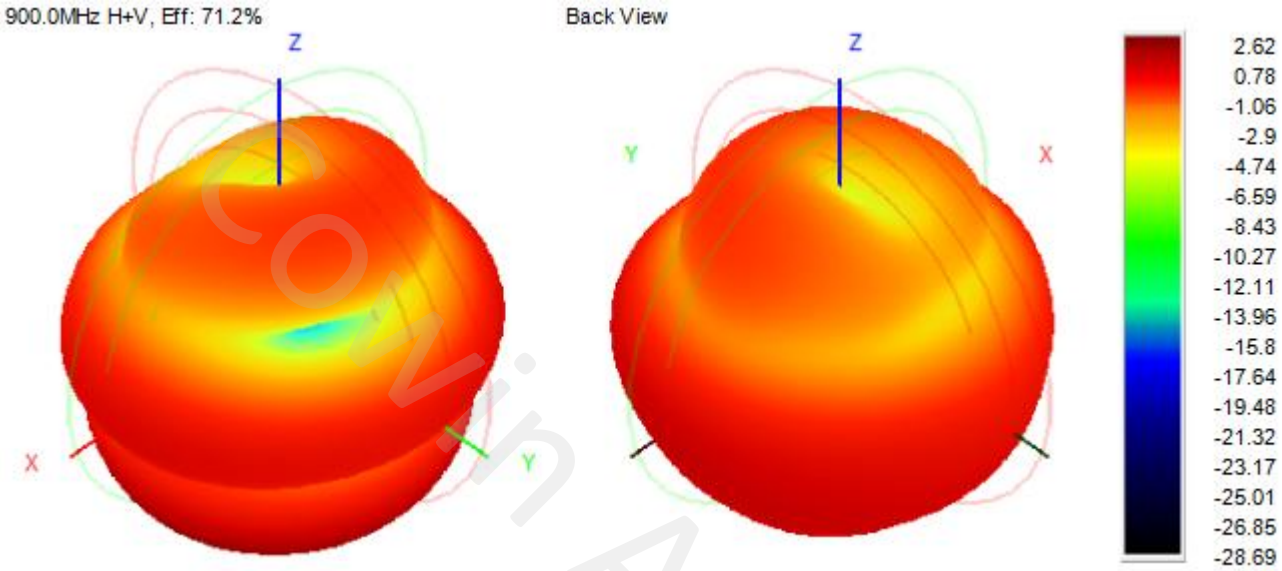

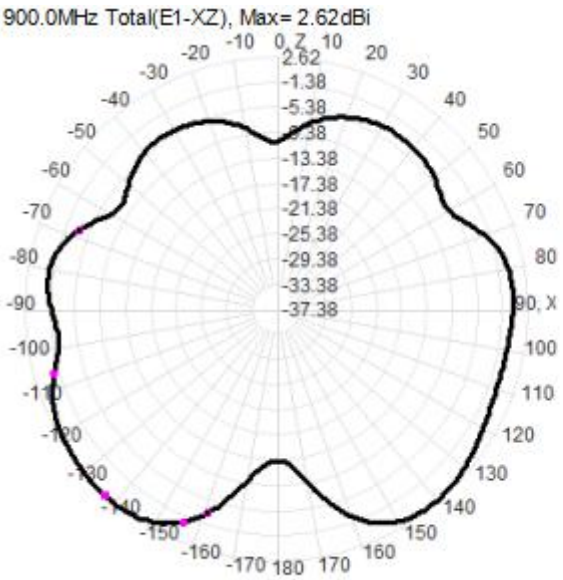

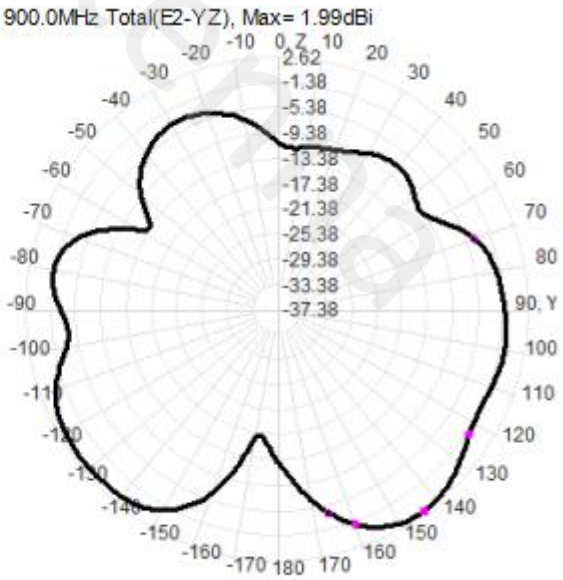

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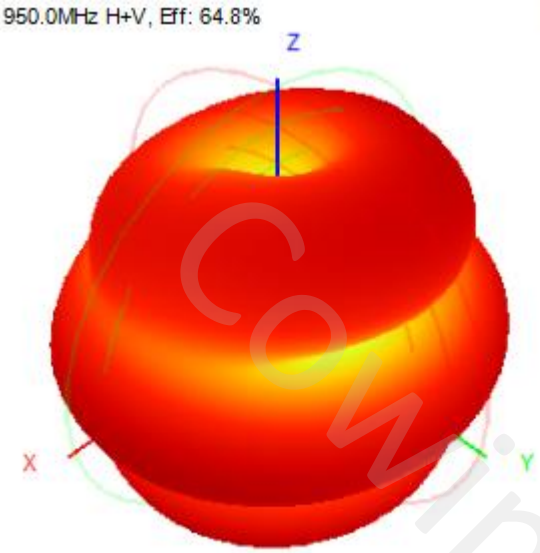

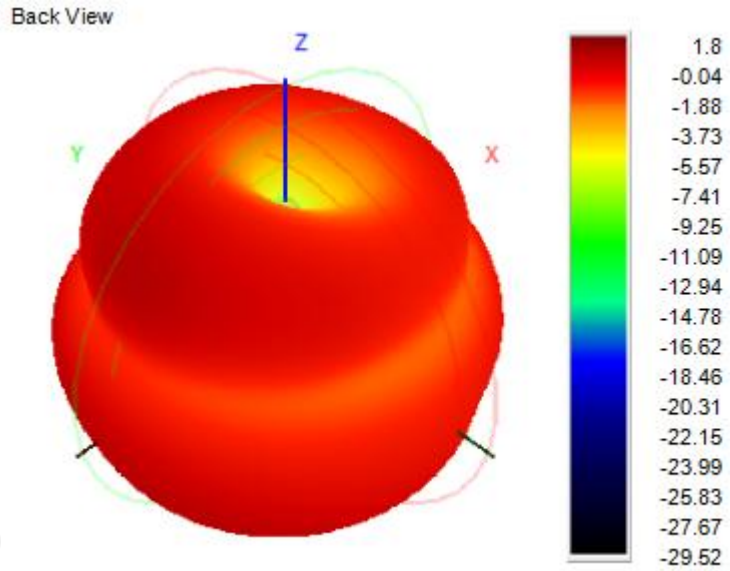

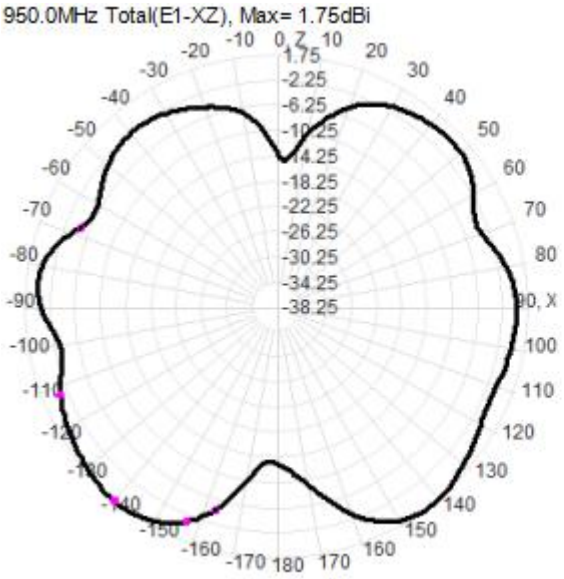

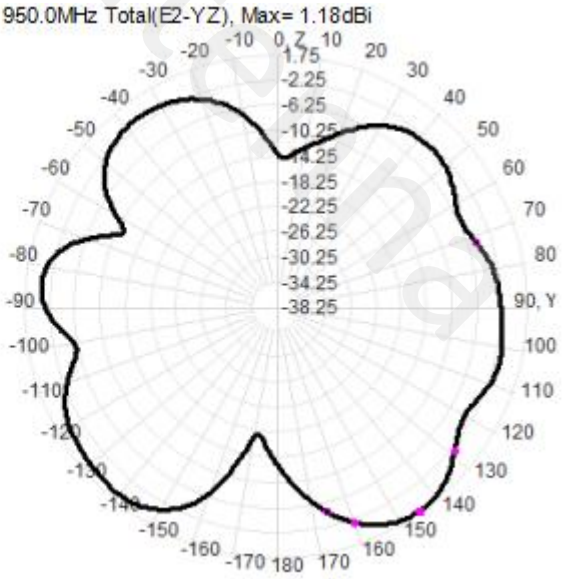

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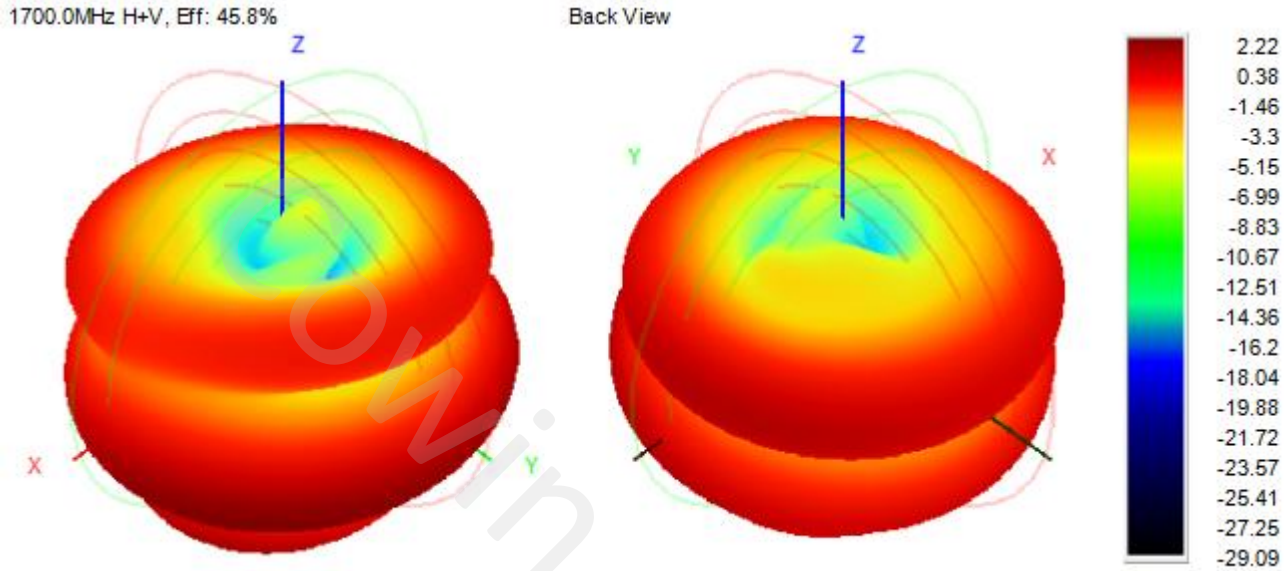

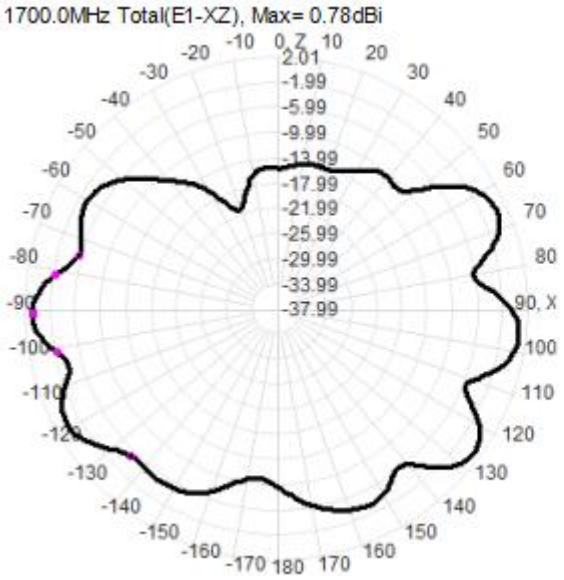

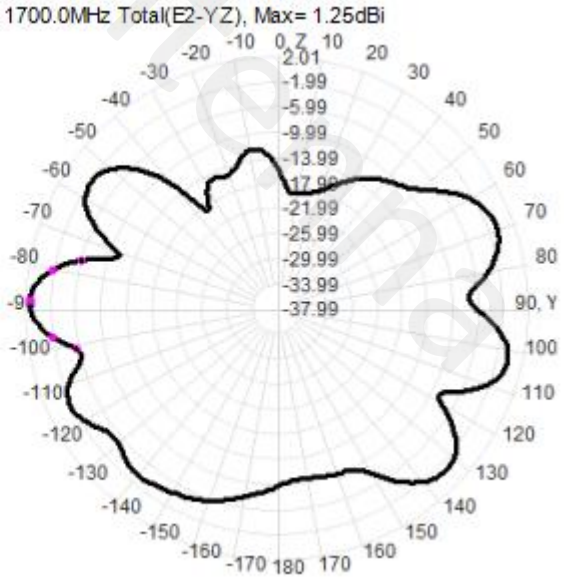

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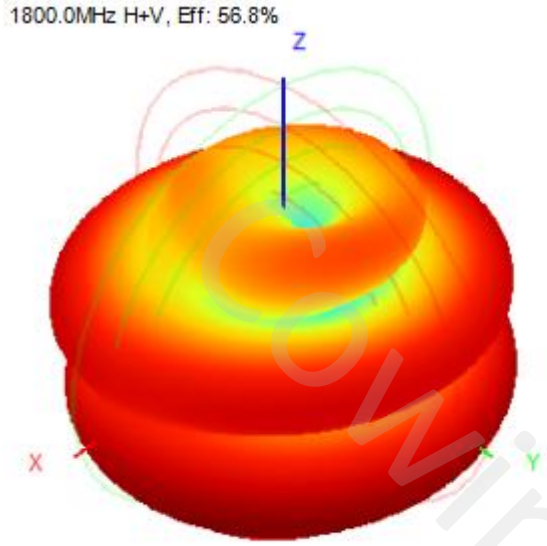

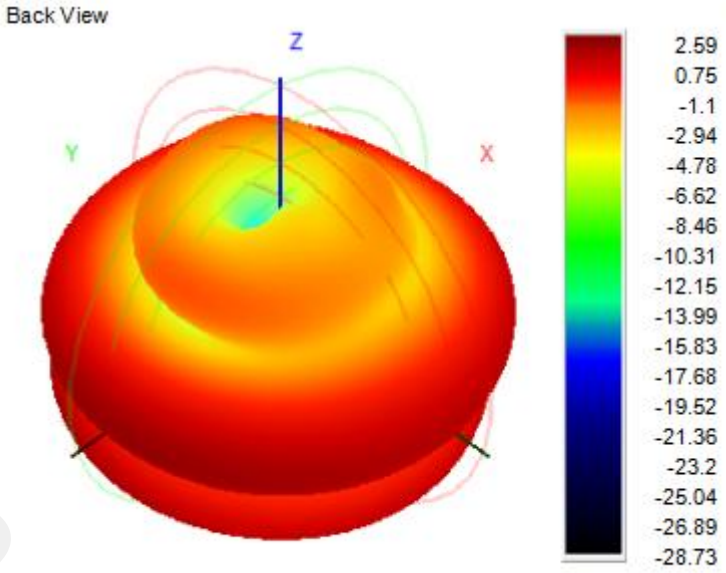

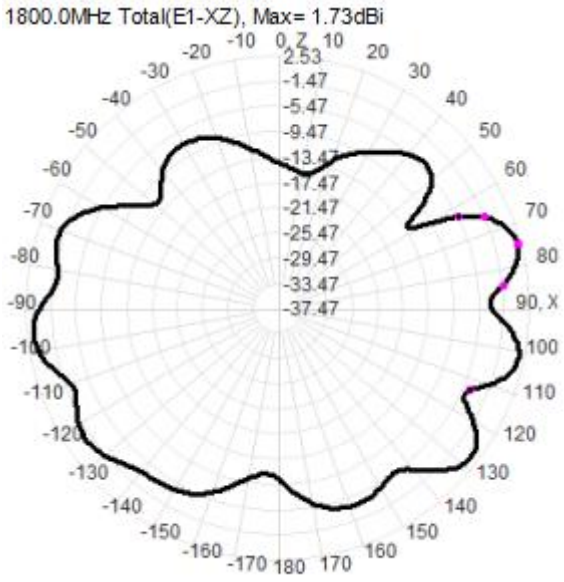

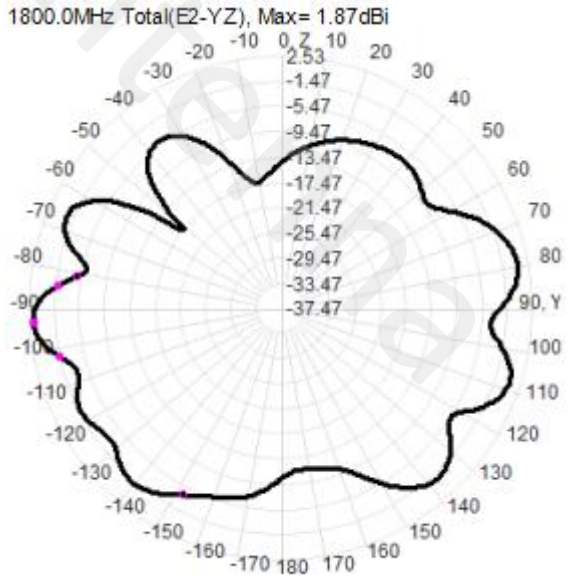

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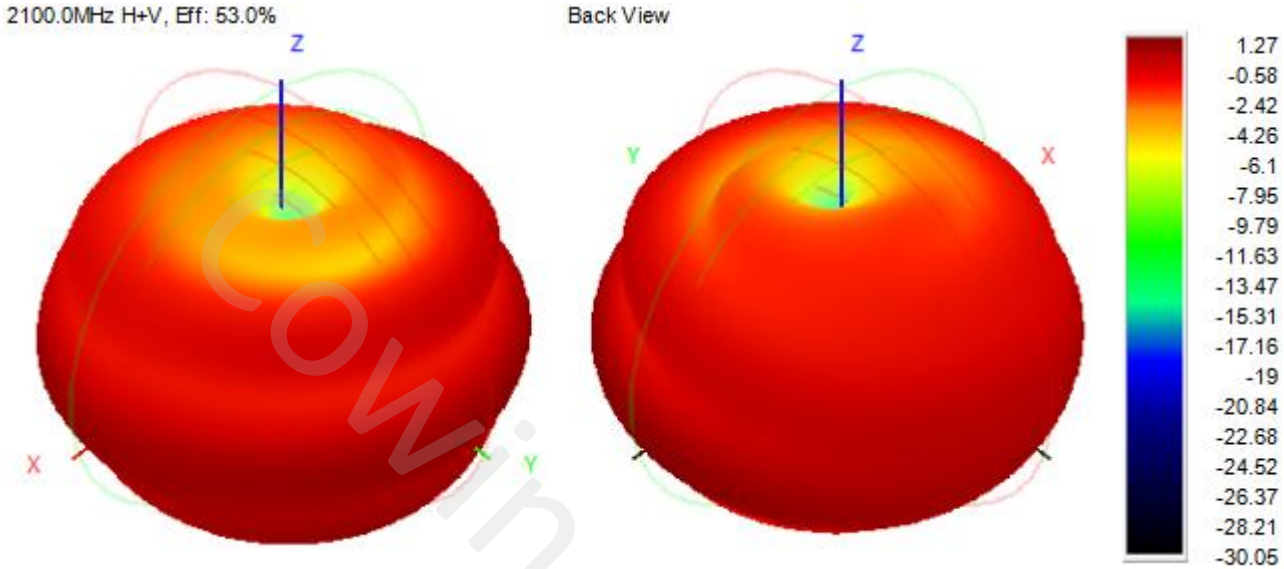

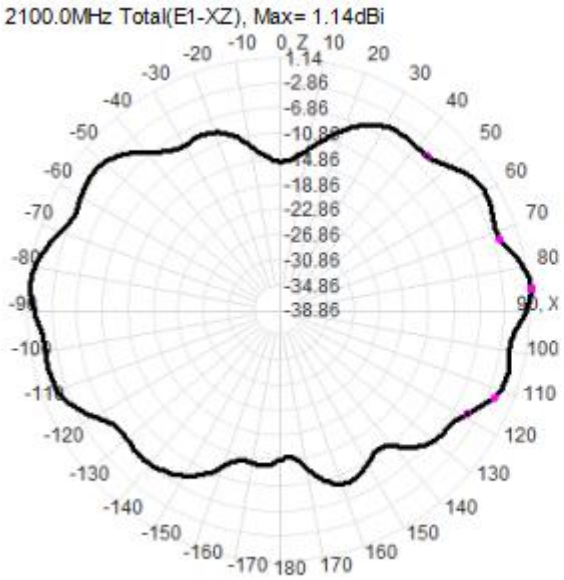

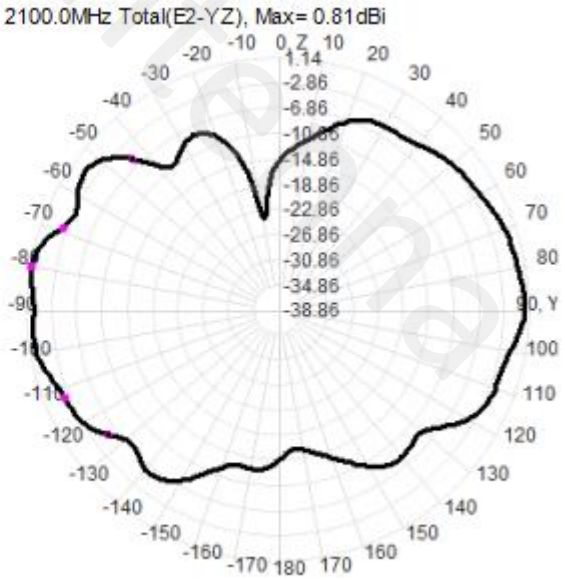

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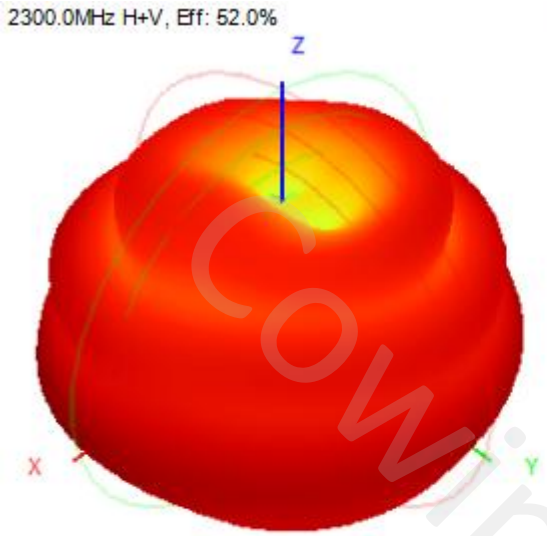

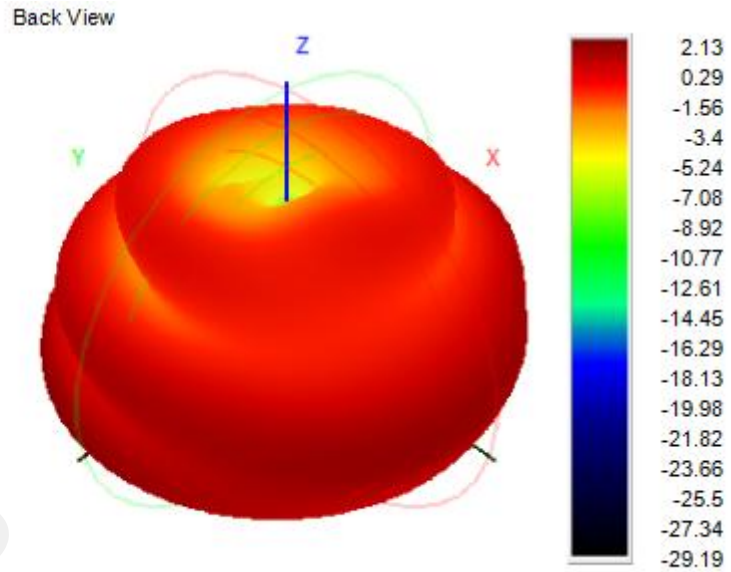

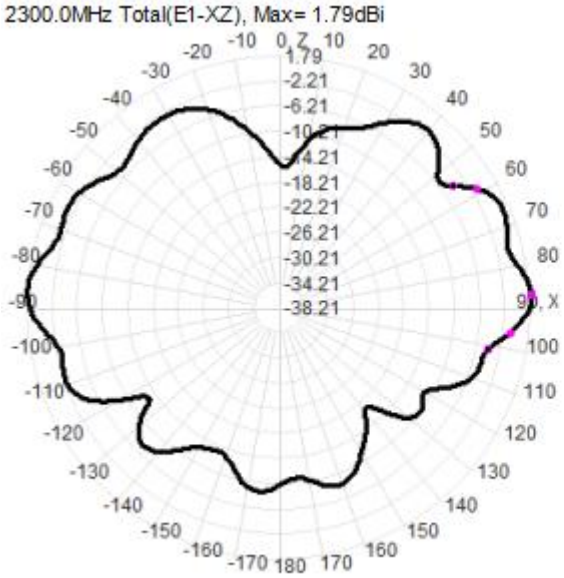

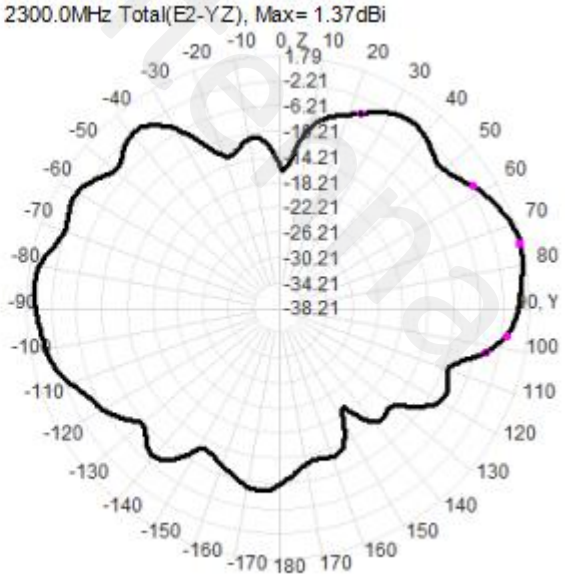

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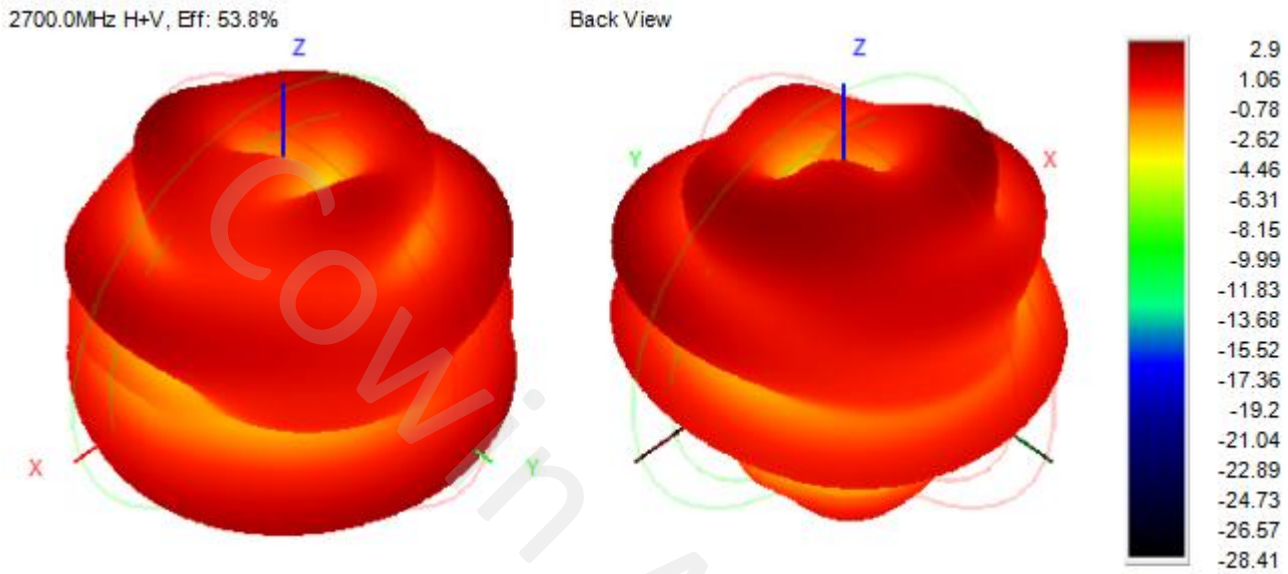

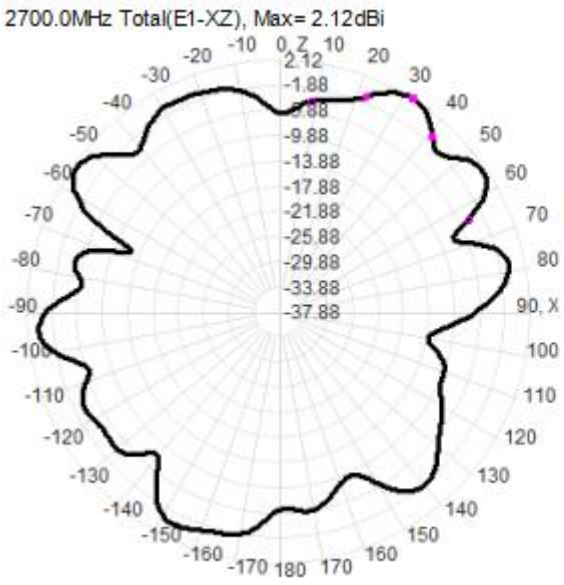

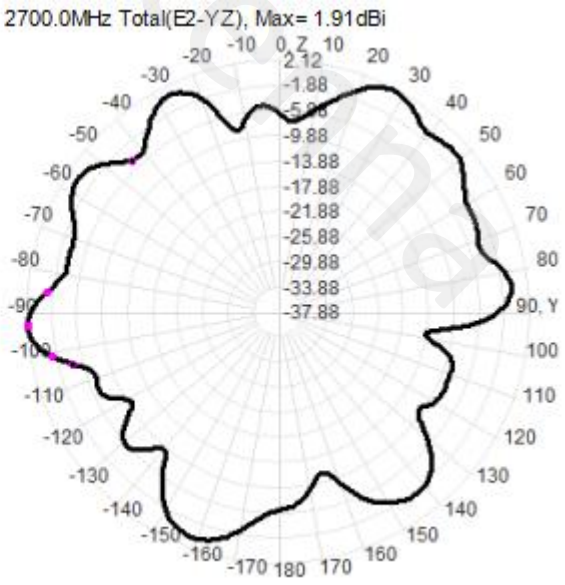

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