

CW-WZ-0136

902-928MHz Antenna

Key Features

Frequency: 902-928MHz

RP SMA Male Connector

External Magnetic Base

Dimensions 318*45mm



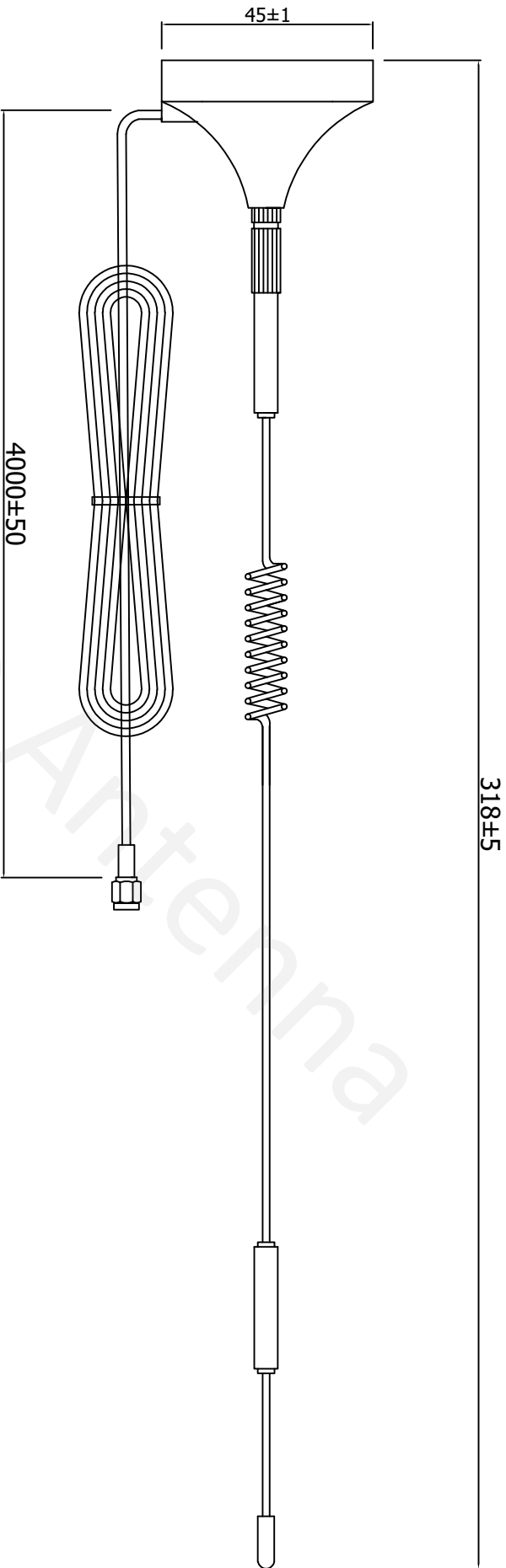
1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	902-928MHz
VSWR	3.0
Efficiency (%)	81.9%
Peak Gain (dBi)	2.89
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	RP SMA Male

2. Material and environmental characteristics

Inner structure	N/A
Material of Plastic	ABS
Cable Type	RG174/L=4M
Connector Type	RP SMA Male
Dimensions (mm)	318*45MM
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		2023/09/26	New Issue



Specification(Free Test):
Frequency Range:902-928MHZ
Impedance: 50Ω
V.S.W.R:≤3.0
100% Continuity/short and open circuit test
Materials,parts and process must by environmentally (ROHS)

6	Signal Pole	Black steel wire	1	
5	Bottom cover	Black ABS	1	
4	Sticker	29*1MM	1	
3	Magnet	Neodymium iron boron	1	
2	Cable	RG174 Cable	1	
1	Connector	RP 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		
		REV	Unit	File
		X1	m/m	Sheet :
				1/1



Cowin Antenna

4. Antenna test parameters

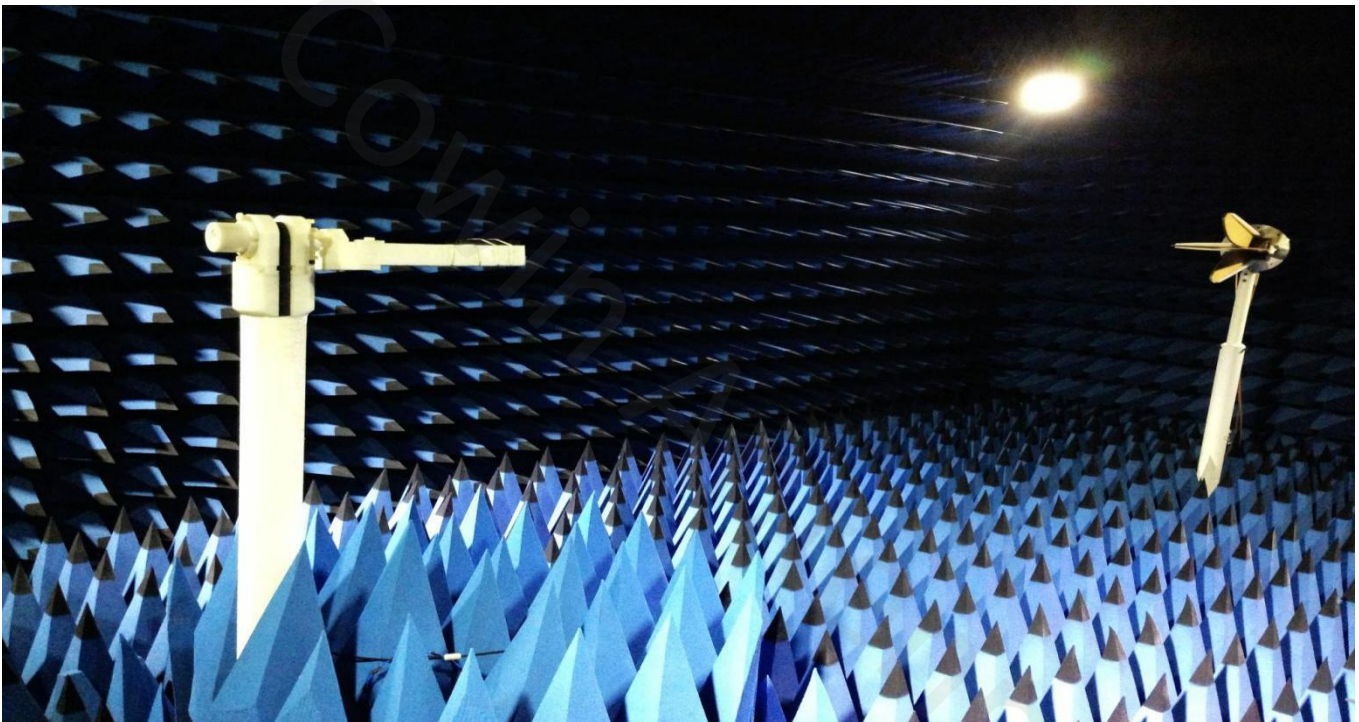
Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

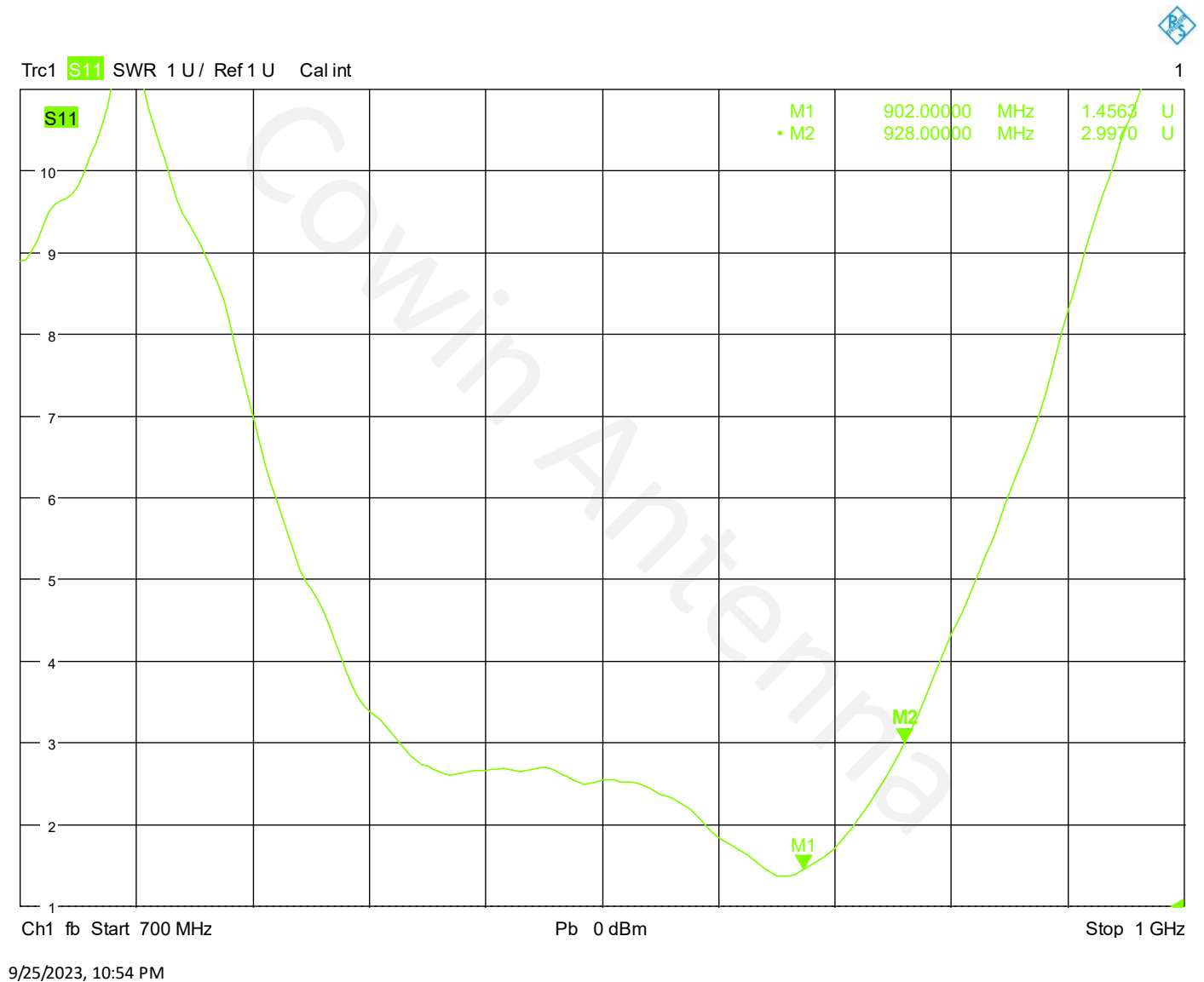
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

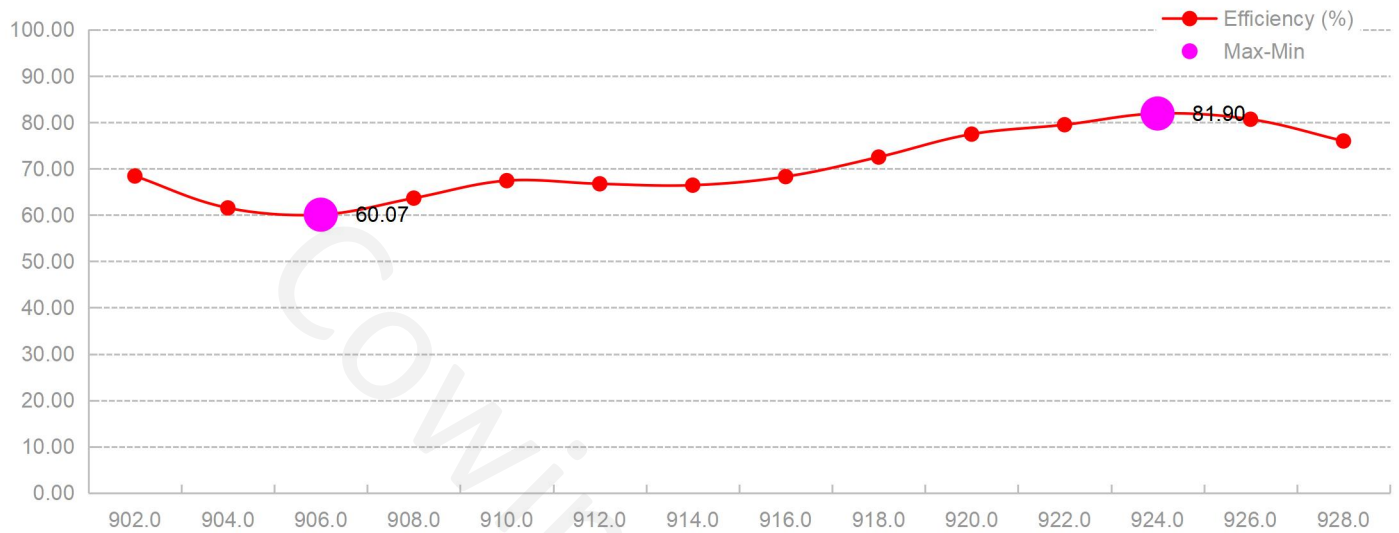
The comprehensive tester is Agilent cmv500



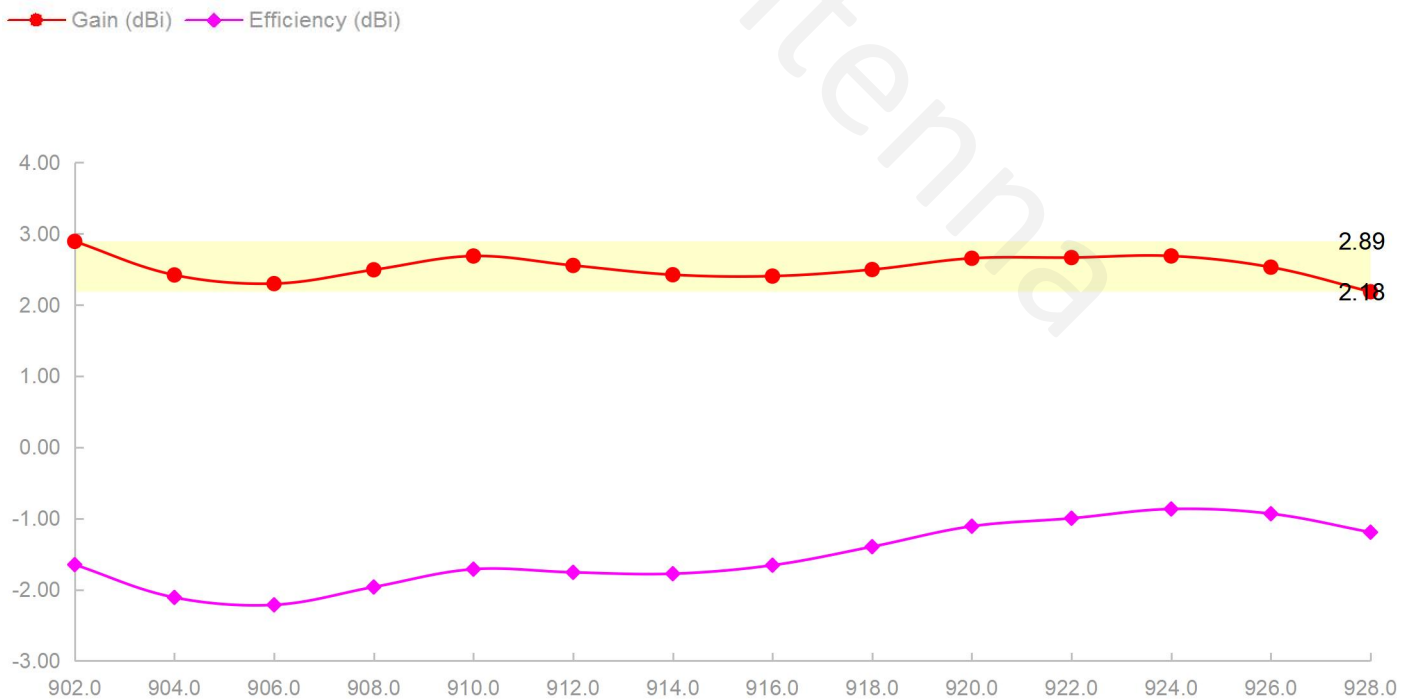
4.1 VSWR



4.2 Efficiency



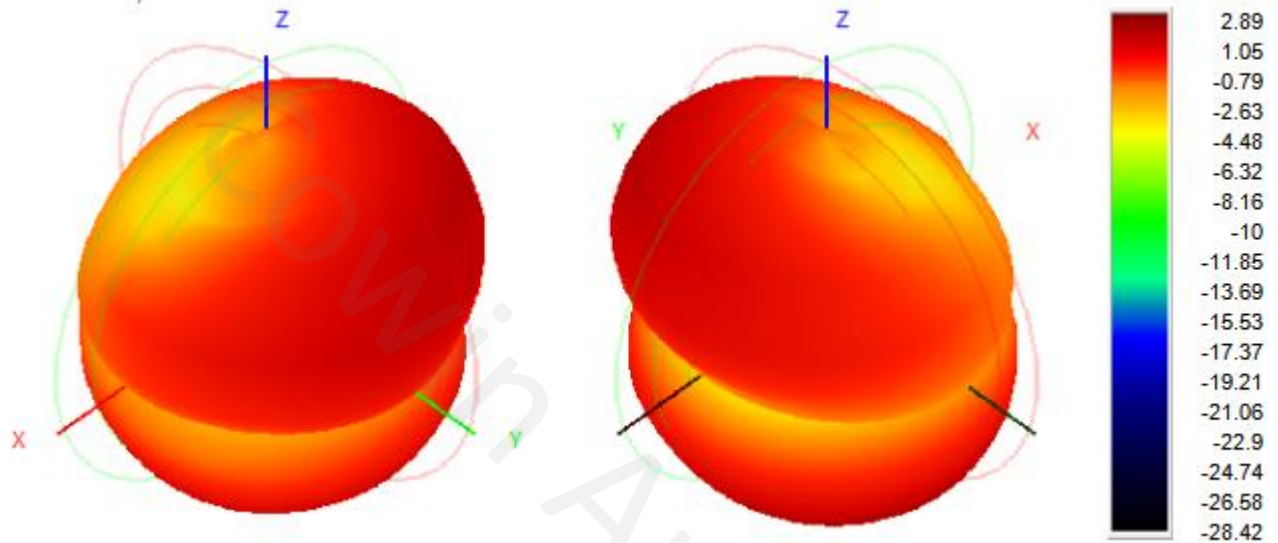
4.3 Peak gain



4.4 3D&2D Radiation Patterns

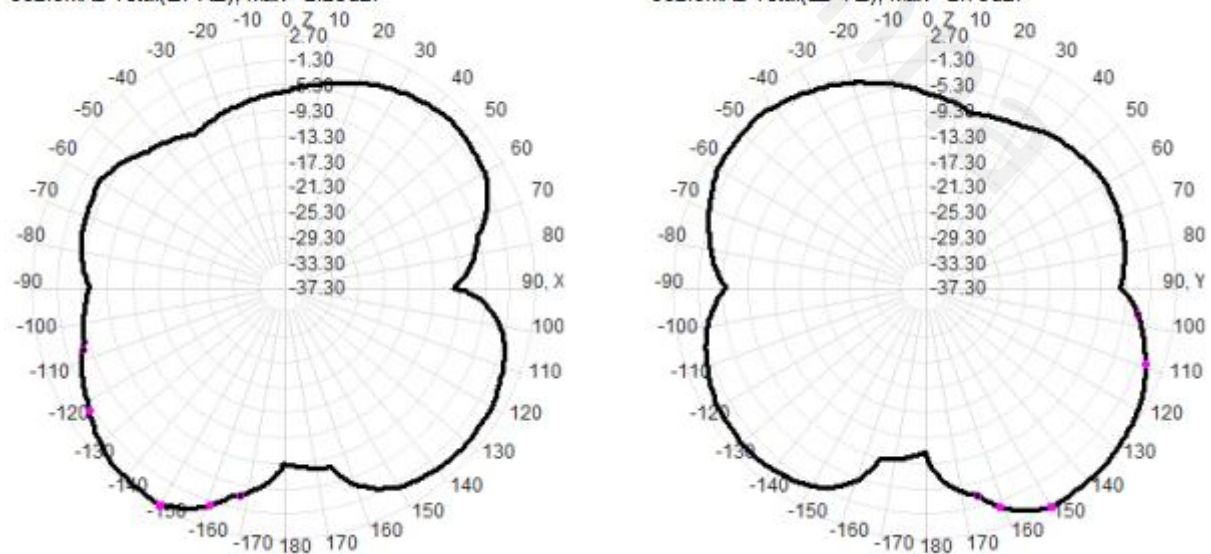
902.0MHz H+V, Eff: 68.4%

Back View

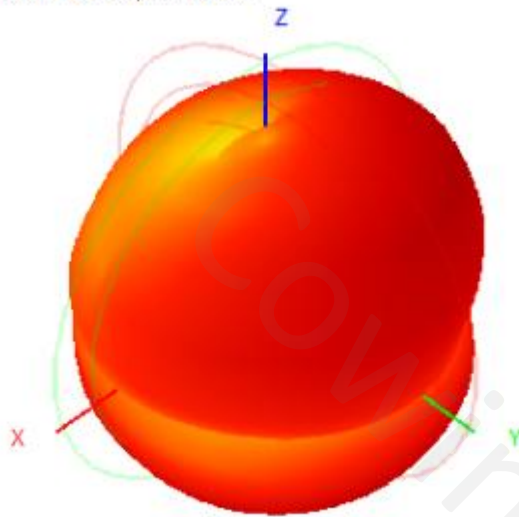


902.0MHz Total(E1-XZ), Max= 2.23dBi

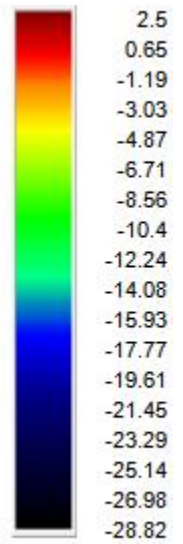
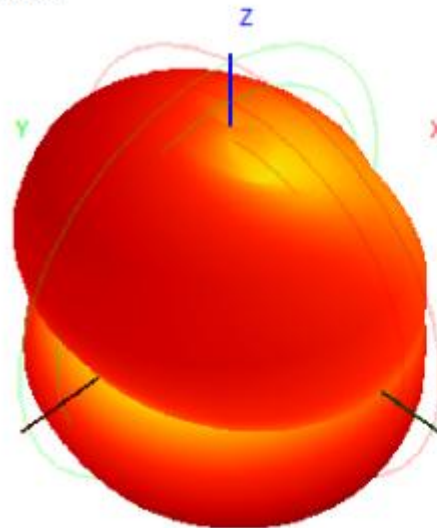
902.0MHz Total(E2-YZ), Max= 2.70dBi



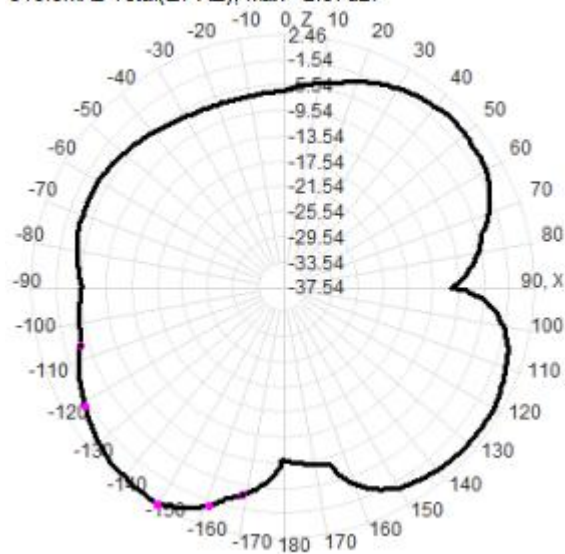
918.0MHz H+V, Eff: 72.5%



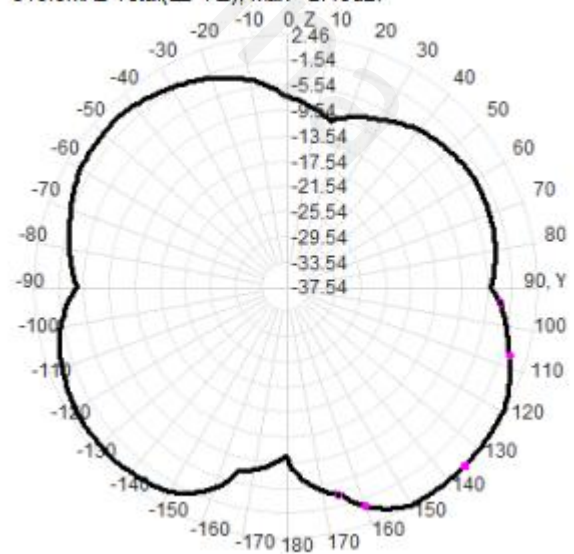
Back View



918.0MHz Total(E1-XZ), Max= 2.07dBi

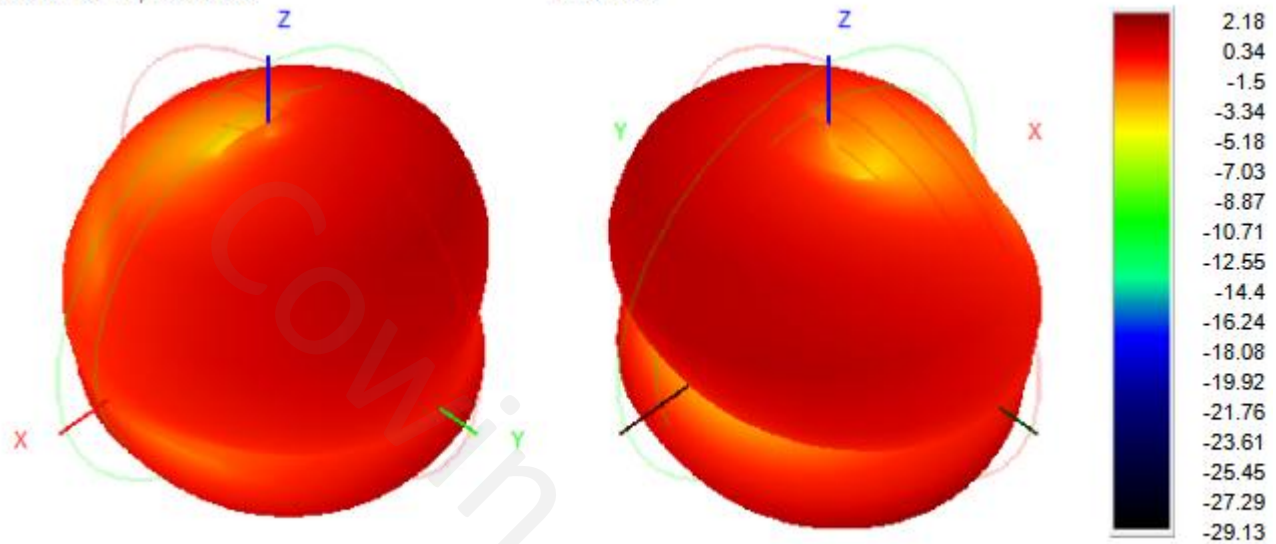


918.0MHz Total(E2-YZ), Max= 2.46dBi

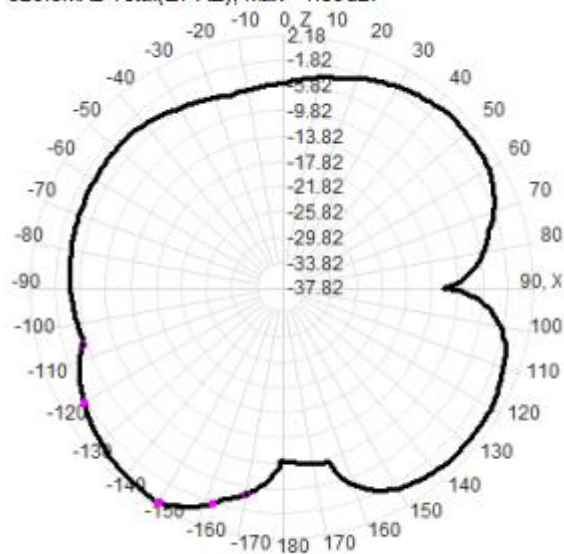


928.0MHz H+V, Eff: 76.0%

Back View



928.0MHz Total(E1-XZ), Max= 1.39dBi



928.0MHz Total(E2-YZ), Max= 2.18dBi

