

## CW-WZ-0098

### 2.4G External Antenna

#### Key Features

Frequency: 2.4-2.5G

SMA Male Connector

External Rubber

Dimensions 29 mm



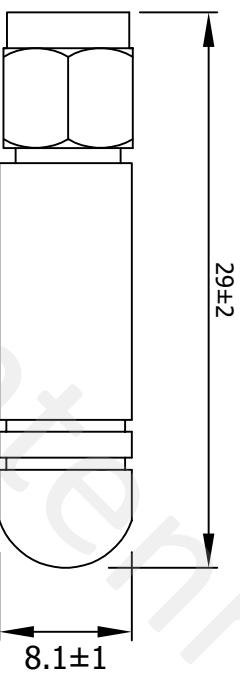
## 1. Antenna Electrical Characteristics

Band (MHz)	
Frequency (MHz)	2.4-2.5G
VSWR	2.0
Efficiency (%)	51.36%
Peak Gain (dBi)	3.32
Impedance (Ohm)	50
Polarisation	Vertical
Max. Input Power (W)	10
Connector Type	SMA Male

## 2. Material and environmental characteristics

Inner structure	Spring
Material of Plastic	TPEE
Cable Type	N/A
Connector Type	SMA Male
Dimensions (mm)	29MM
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	2022/11/16	New issue



Specification(Free Test):  
 Frequency Range:2.4-2.5G  
 Impedance: 50Ω  
 V.S.W.R: ≤2.0  
 100% Continuity,short and open circuit test  
 Materials,parts and process must by environmentally (ROHS)

3	Connector	SMA Male	1	
2	Signal spring	Brass	1	
1	Radome	Black TPEE	1	
NO	Name	Description	QTY	Remark
XX: ±5.0	Approved	Customer		
X: ±3.0		Part NO.		
.X ±1.0	Checked	Part name		
.XX ±0.2		CW P/NO.		
.XXX ±0.1	Drawing	REV	Unit	File
		X1	m/m	Sheet:
				1/1



## 4. Antenna test parameters

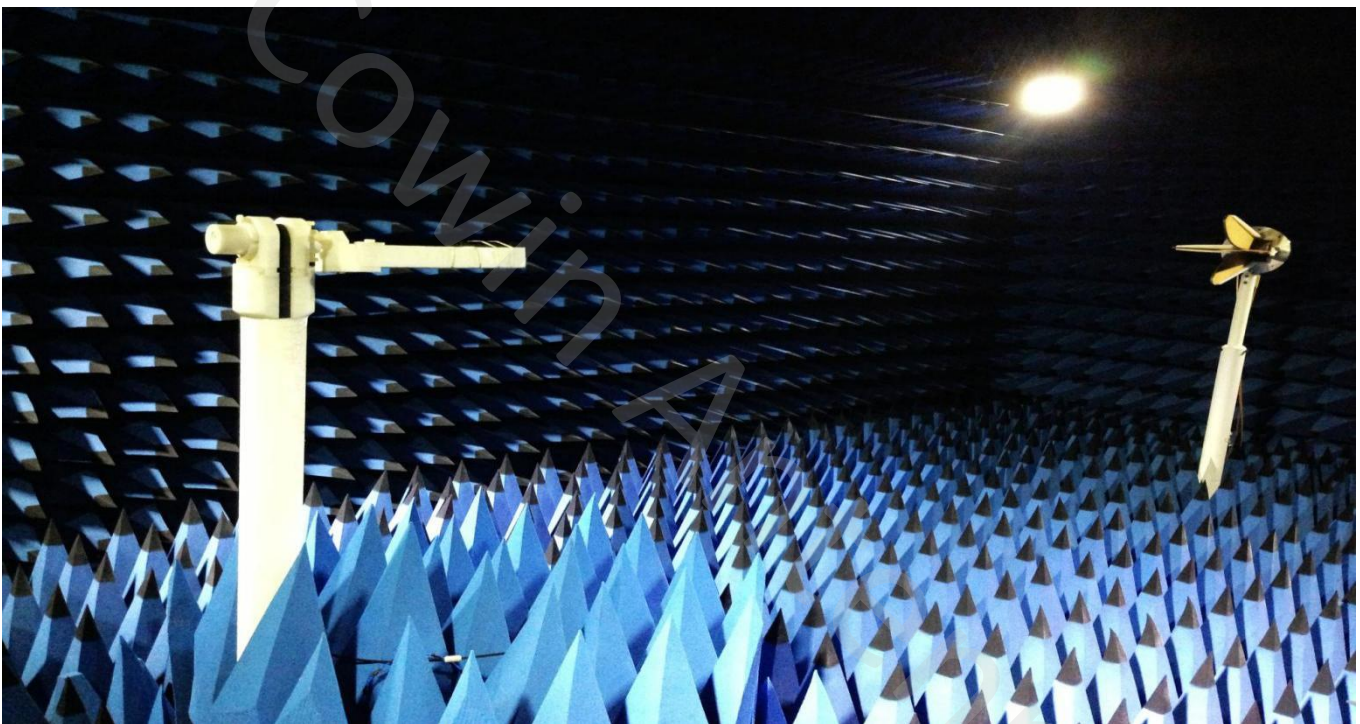
### Antenna Measurement Conditions:

Mounted on Ground Plane of 280 x 80 mm

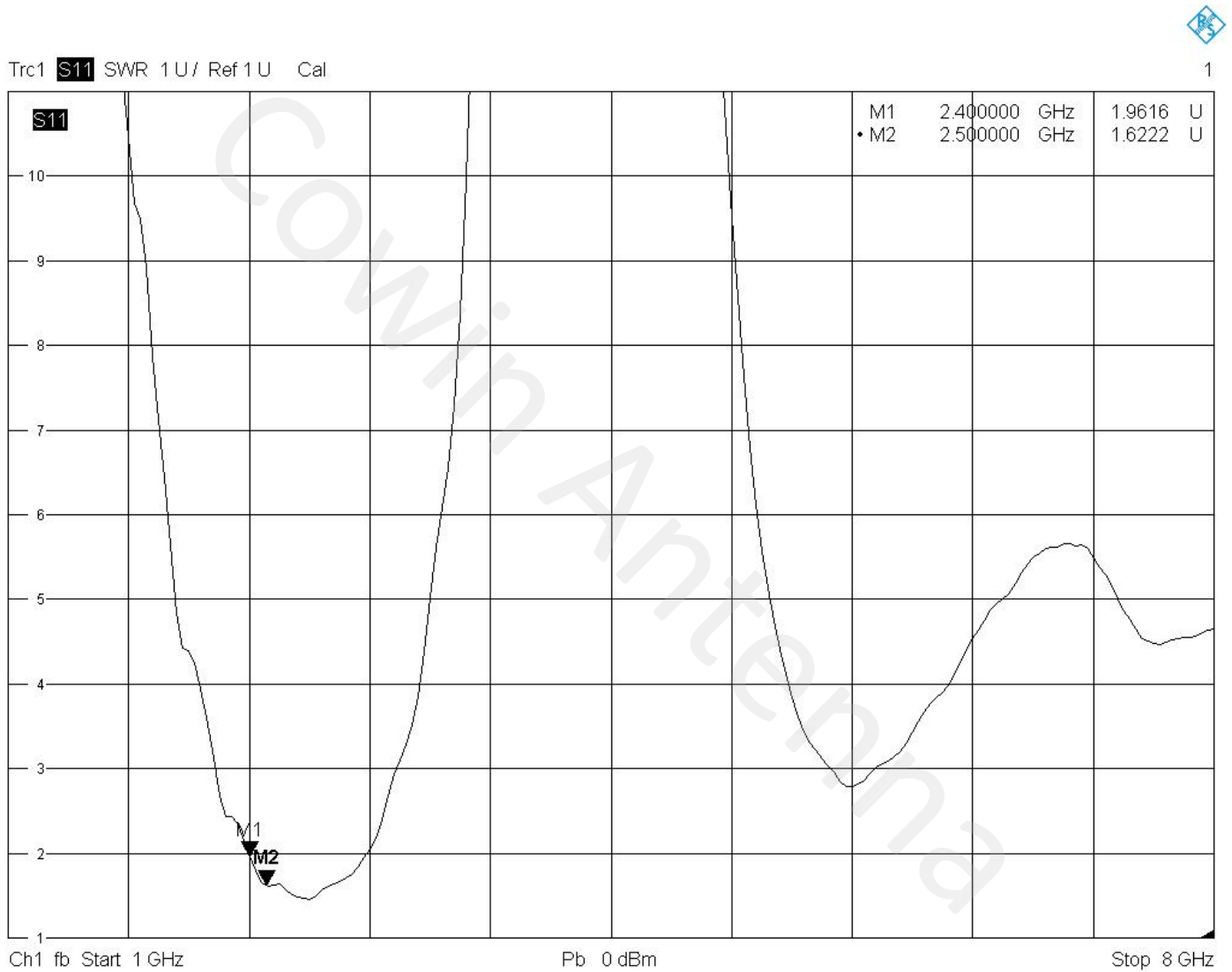
Measured in Certified 3D Anechoic Chamber

The network analyzer is Agilent 5071c

The comprehensive tester is Agilent cmv500

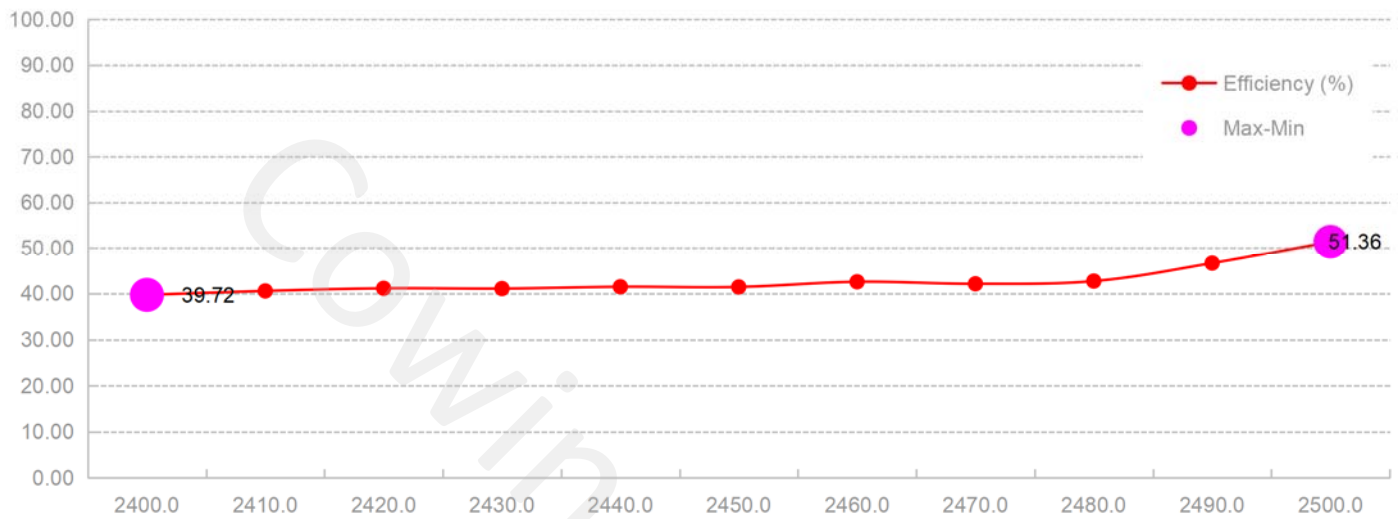


## 4.1 VSWR

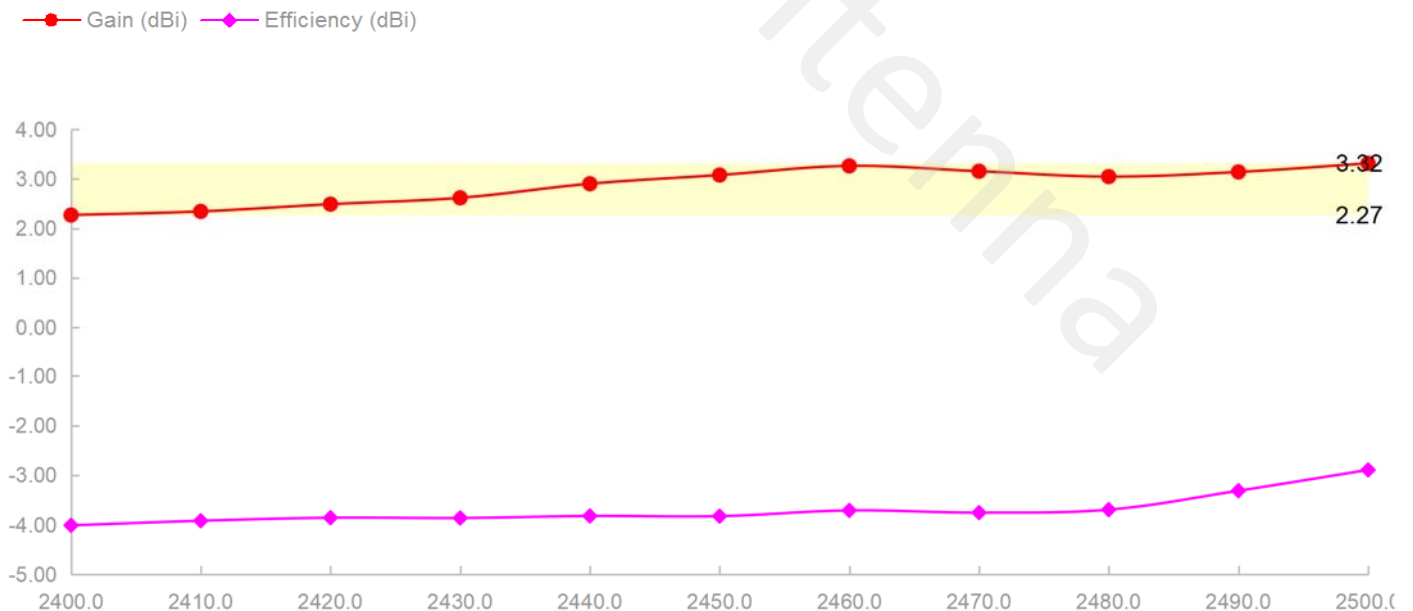


11/16/2022, 3:38 AM

## 4.2 Efficiency

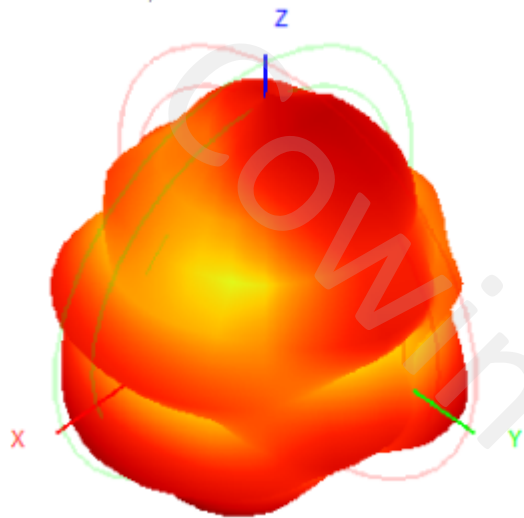


## 4.3 Peak gain

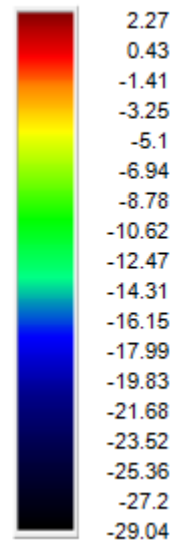
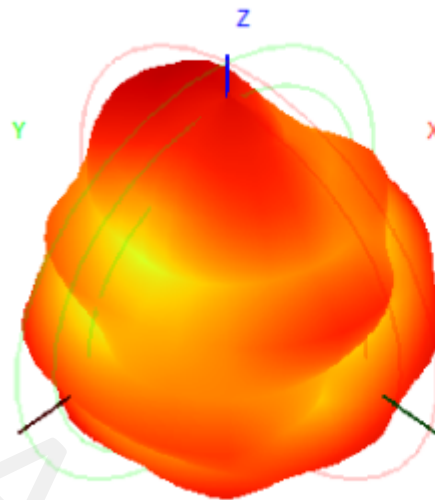


## 4.4 3D&2D Radiation Patterns

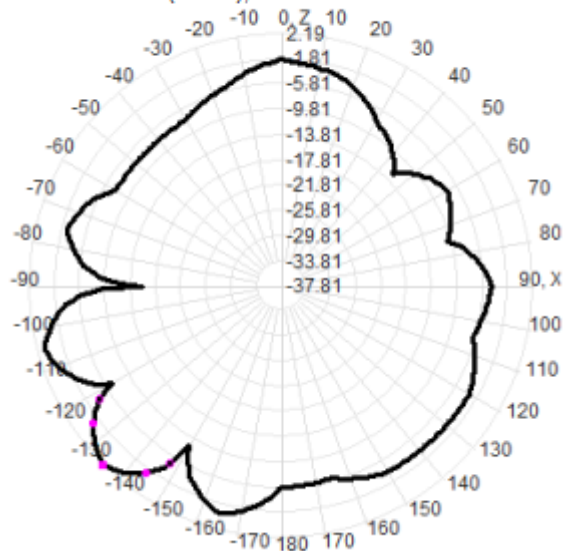
2400.0MHz H+V, Eff: 39.7%



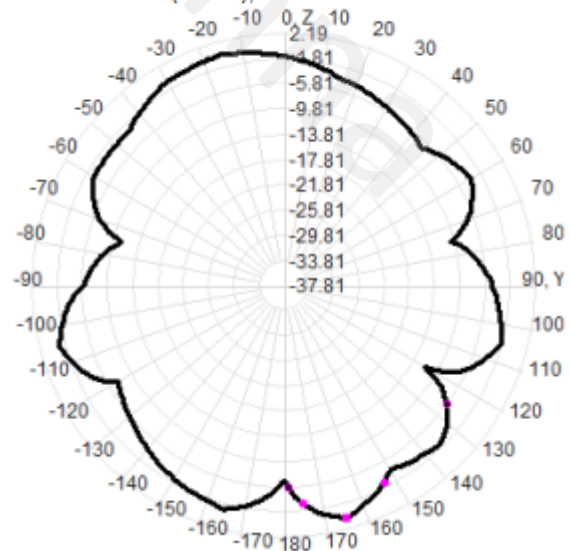
Back View



2400.0MHz Total(E1-XZ), Max= 2.19dBi

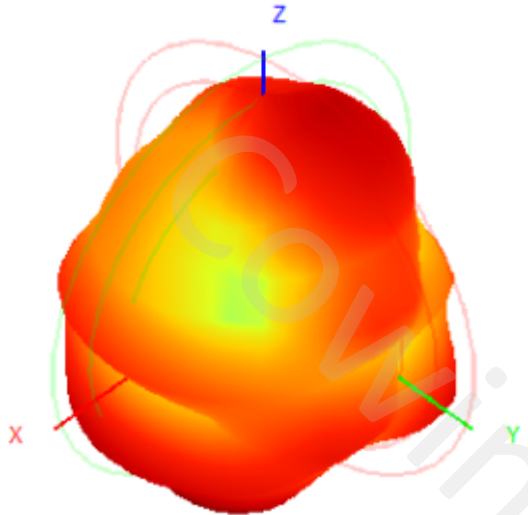


2400.0MHz Total(E2-YZ), Max= 0.13dBi

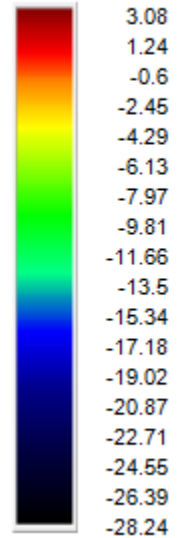
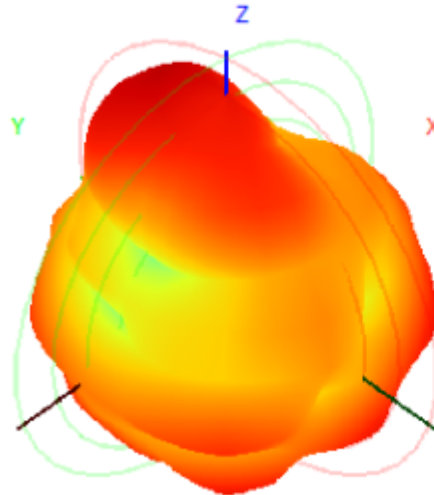




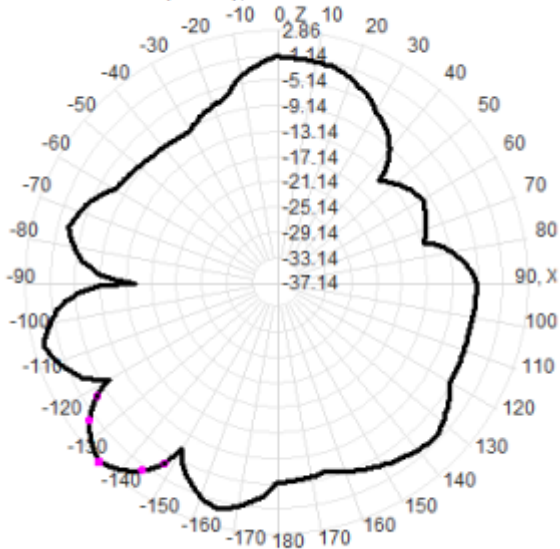
2450.0MHz H+V, Eff: 41.4%



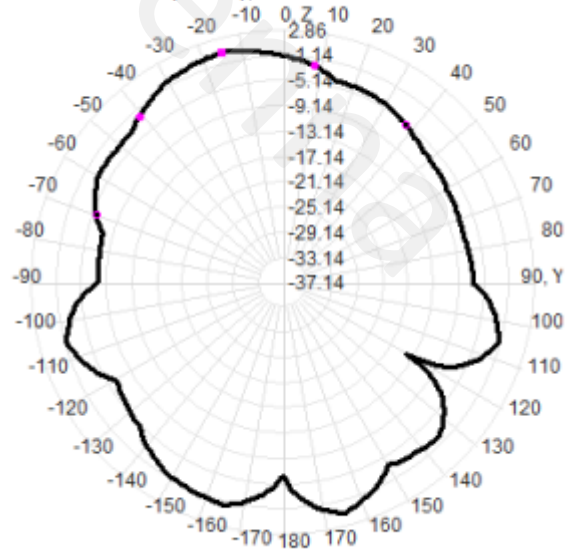
Back View



2450.0MHz Total(E1-XZ), Max= 2.86dBi

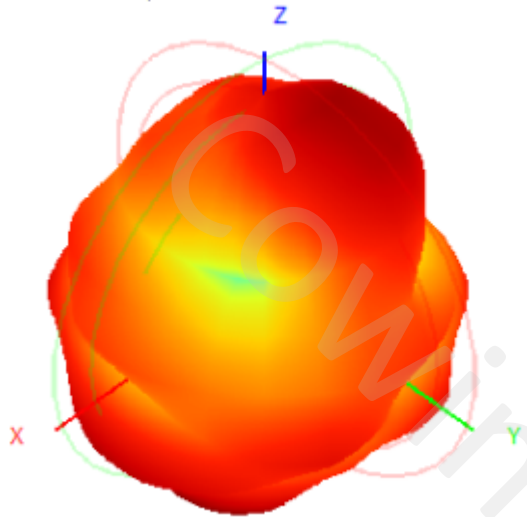


2450.0MHz Total(E2-YZ), Max= 0.61dBi

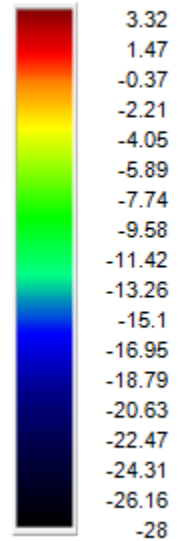
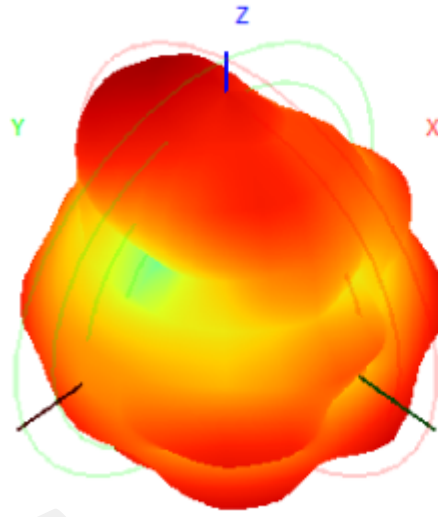




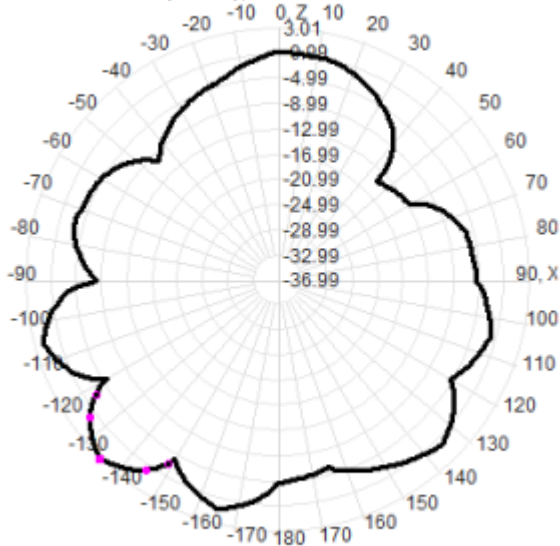
2500.0MHz H+V, Eff: 51.4%



Back View



2500.0MHz Total(E1-XZ), Max= 3.01dBi



2500.0MHz Total(E2-YZ), Max= 1.87dBi

