

Product Datasheet

CW-WZ-0171

2.4G/5.8G External Antenna

Key Features

Frequency:2400-2500MHZ/5150-5850MHZ
SMA Connector
Dimensions:394*13mm



Band (MHz)	
Frequency (MHz)	2400-2500MHZ/5150-5850MHZ
VSWR	≤2.0/4.0
Efficiency (%)	95.90%/75.44%
Peak Gain (dBi)	9.26/4.34
Impedance (Ohm)	50

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Polarisation	Vertical
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1. Antenna Electrical Characteristics

10

SMA

2. Material and environmental characteristics

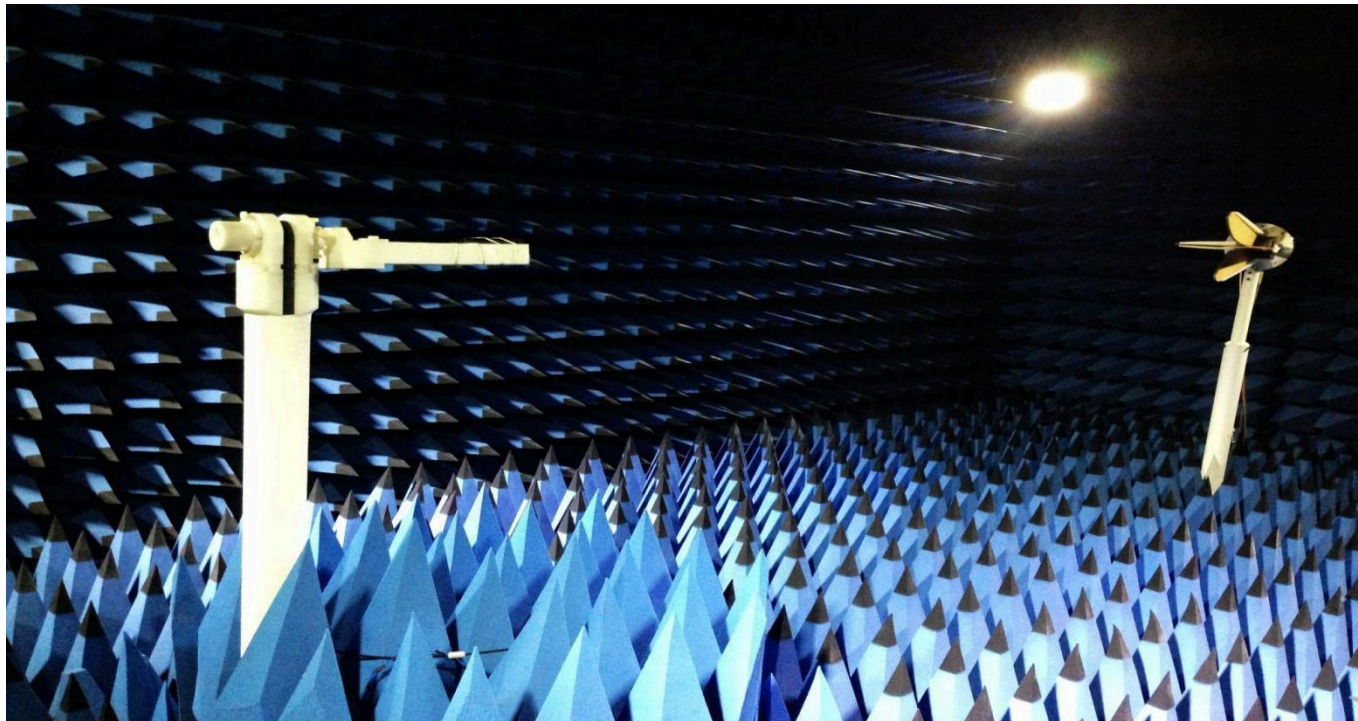
External structure	ABS+(PC+PBT)
Inner structure	Signal tube +Signal lever
Cable Type	RG178
Connector Type	SMA
Dimensions (mm)	394*13 MM
Antenna color	Black
Operation Temperature	-40 to +80
Storage Temperature	-40 to +80
Antenna Storage life(year)	10
Substance Compliance	ROHS

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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

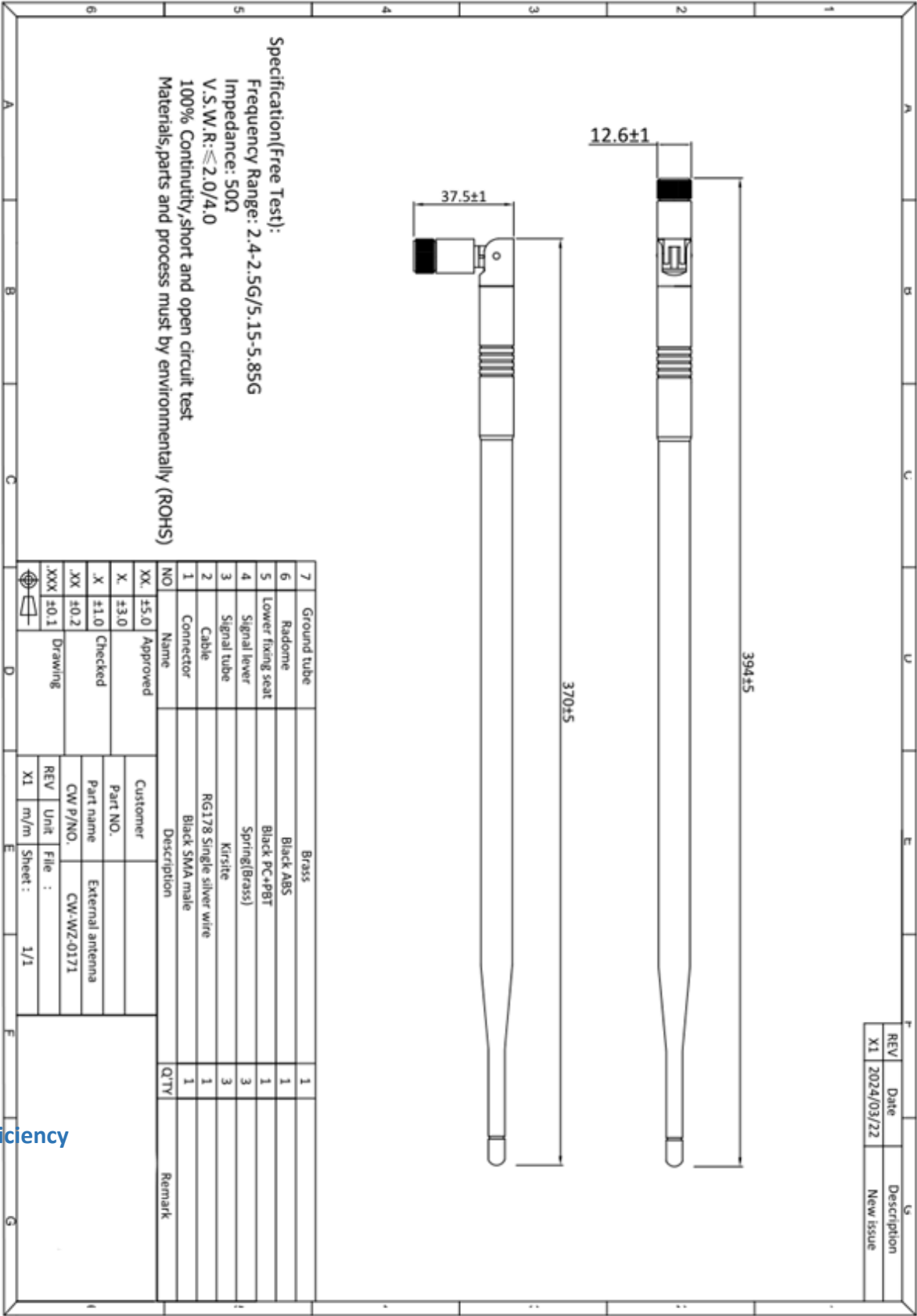


Trc1 — S11 SWR 1 U/ Ref 1 U Cal Offs

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1 (Max)

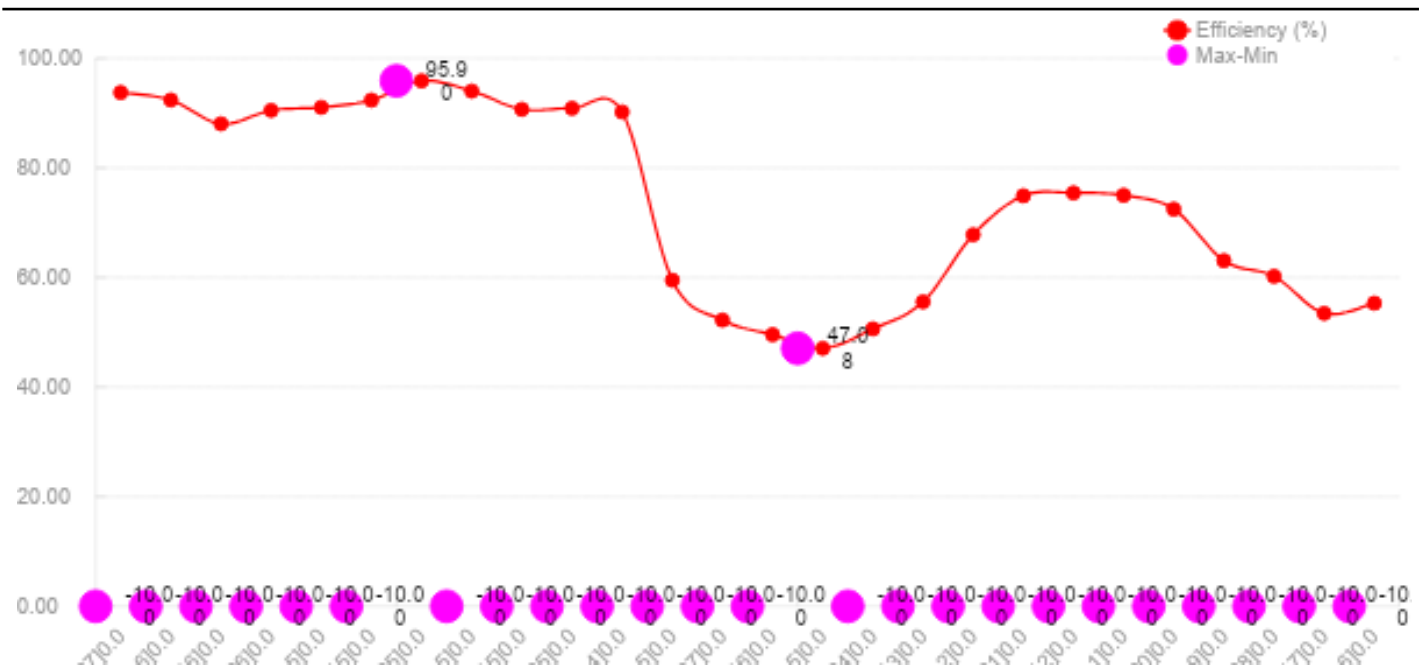
S11						M1	2.400000 GHz	1.2487 U
						M2	2.500000 GHz	1.2247 U
						M3	5.150000 GHz	1.7700 U
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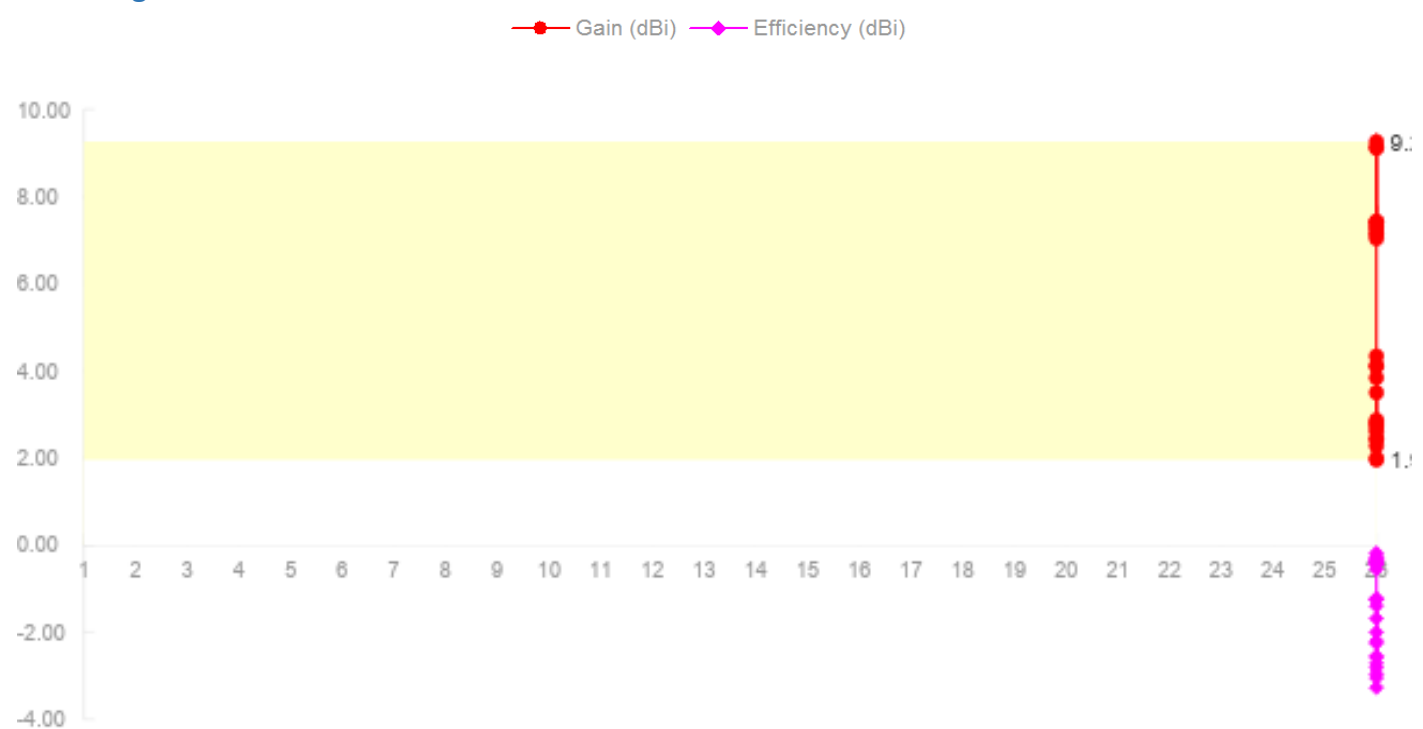


4.2 Efficiency

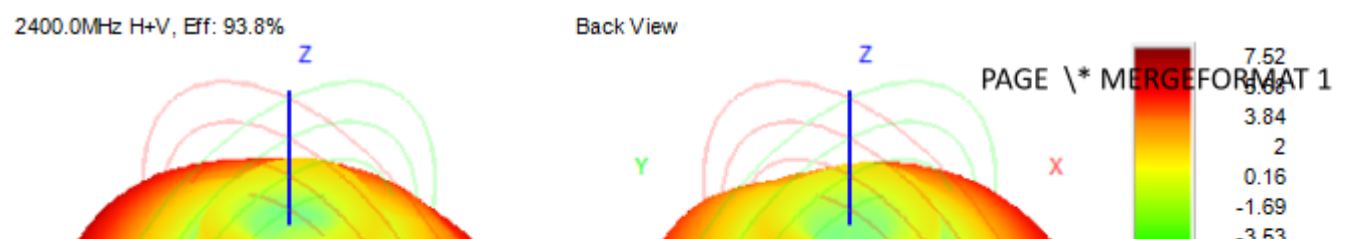
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4.3 Peak gain

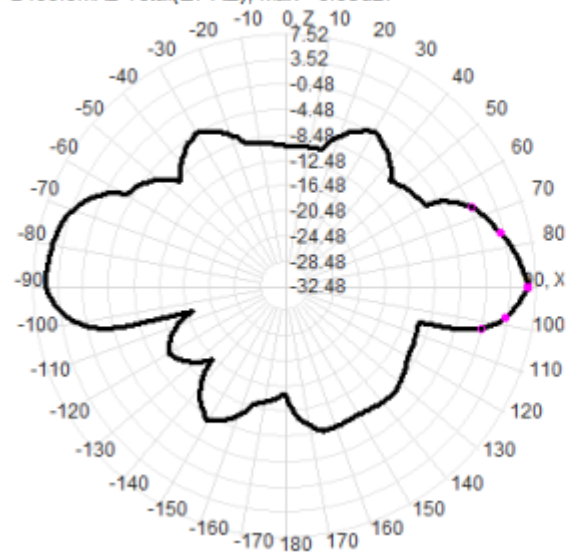


4.4 3D&2D Radiation Patterns

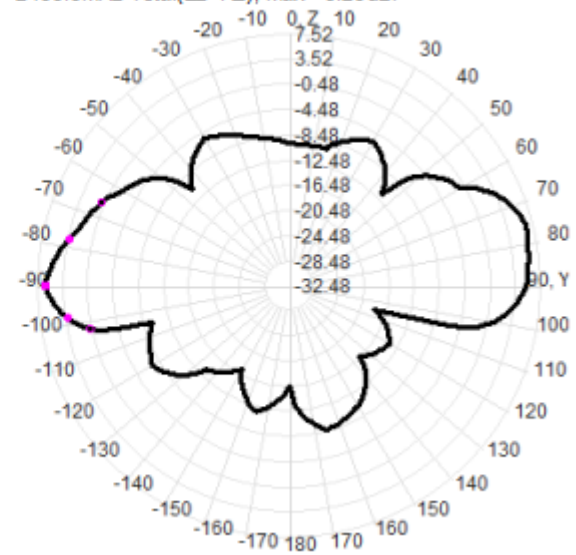


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2400.0MHz Total(E1-XZ), Max= 6.03dBi

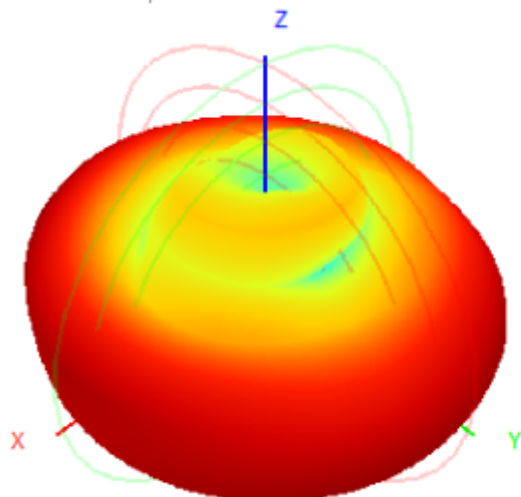


2400.0MHz Total(E2-YZ), Max= 6.29dBi

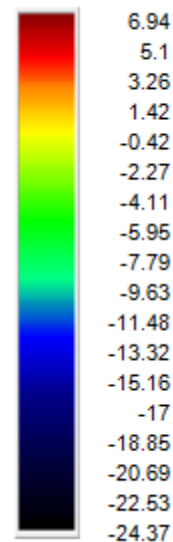
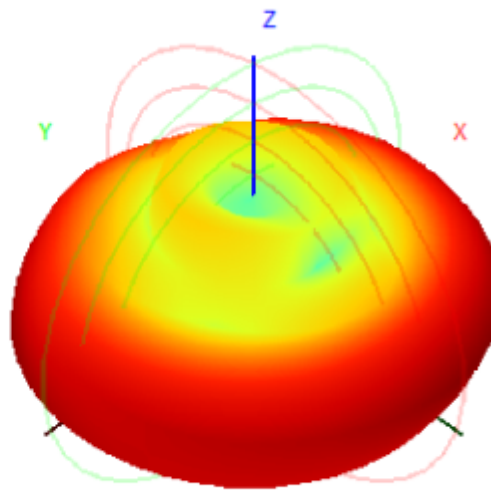


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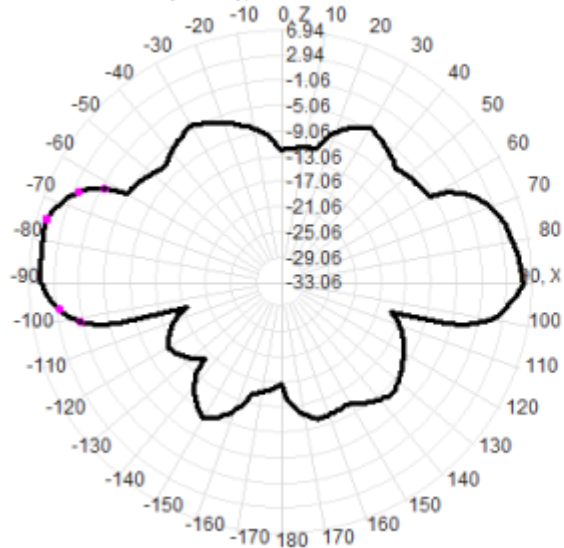
2450.0MHz H+V, Eff: 92.4%



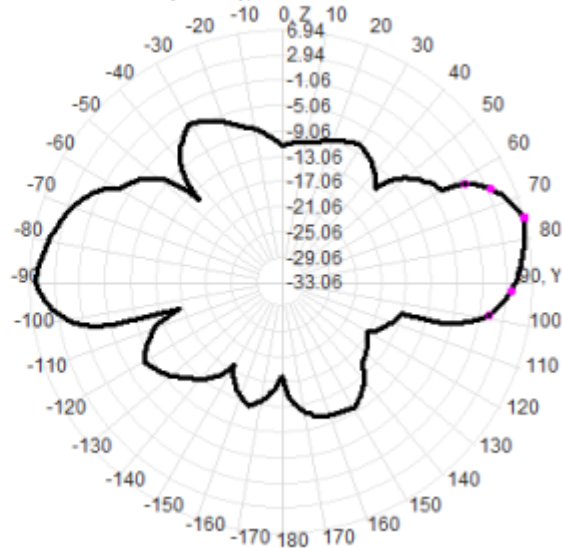
Back View



2450.0MHz Total(E1-XZ), Max= 5.45dBi

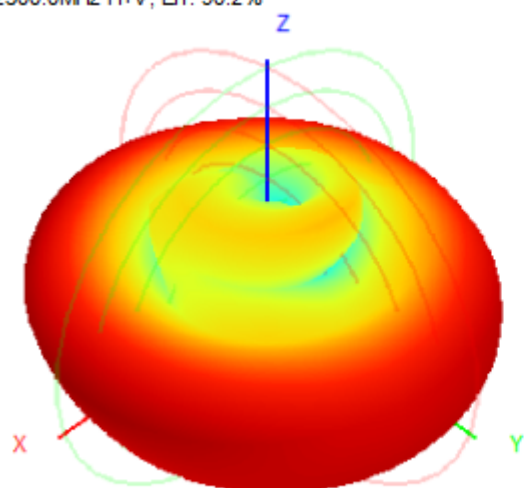


2450.0MHz Total(E2-YZ), Max= 6.68dBi

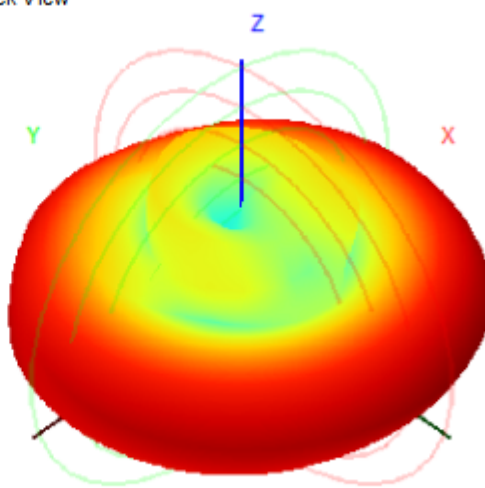


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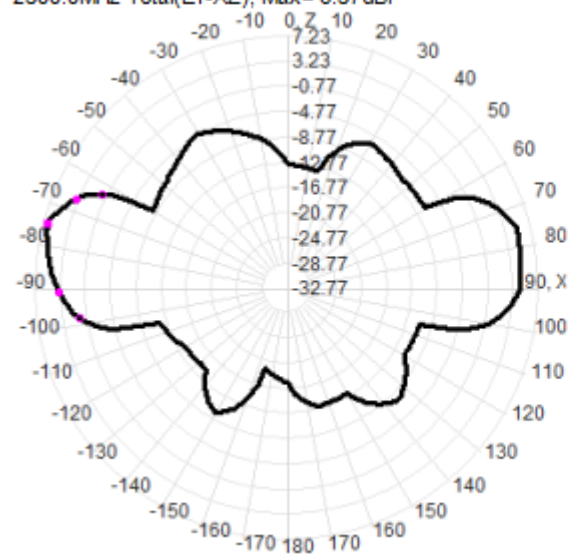
2500.0MHz H+V, Eff: 90.2%



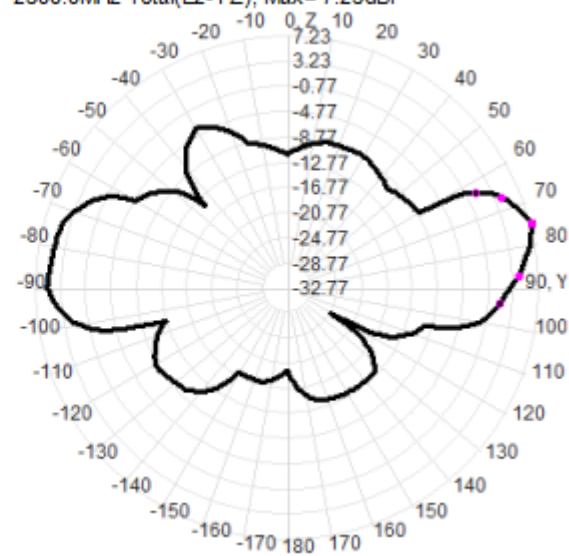
Back View



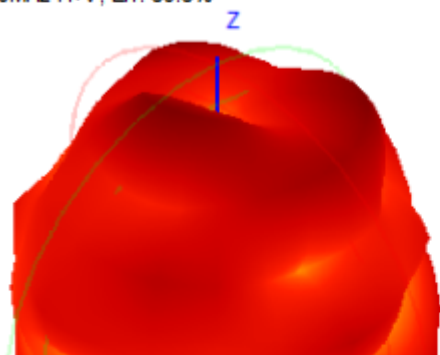
2500.0MHz Total(E1-XZ), Max= 6.57dBi



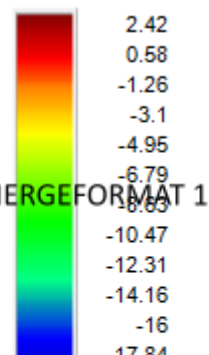
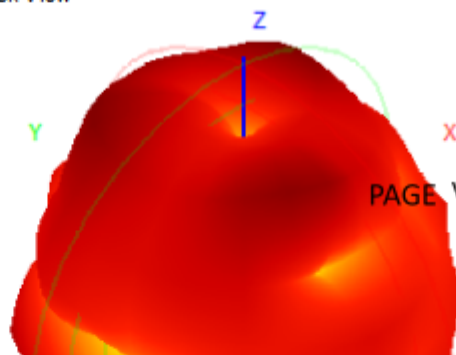
2500.0MHz Total(E2-YZ), Max= 7.23dBi



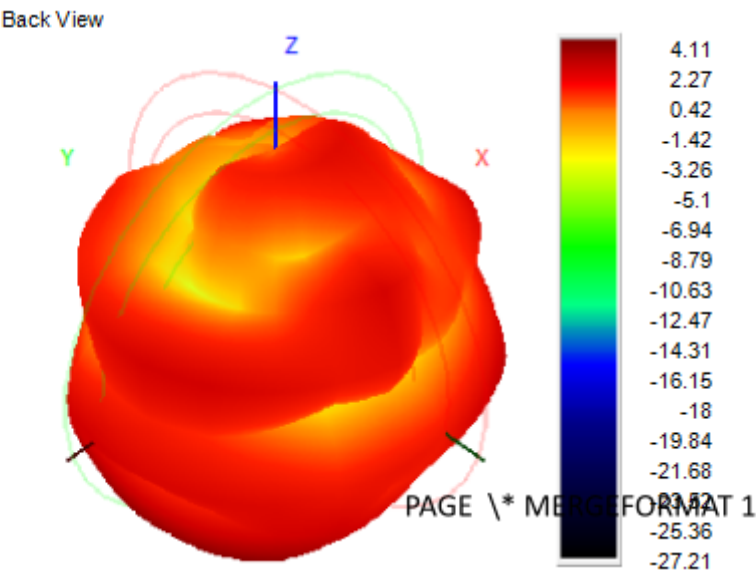
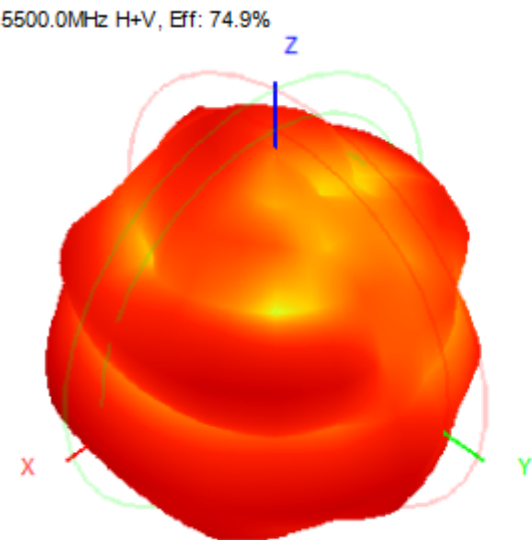
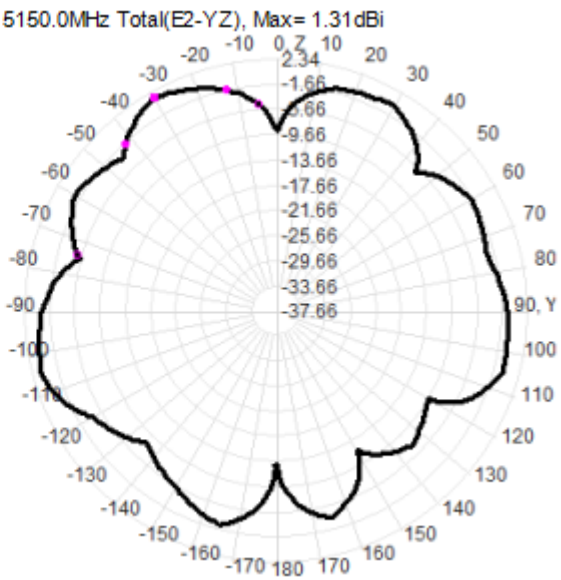
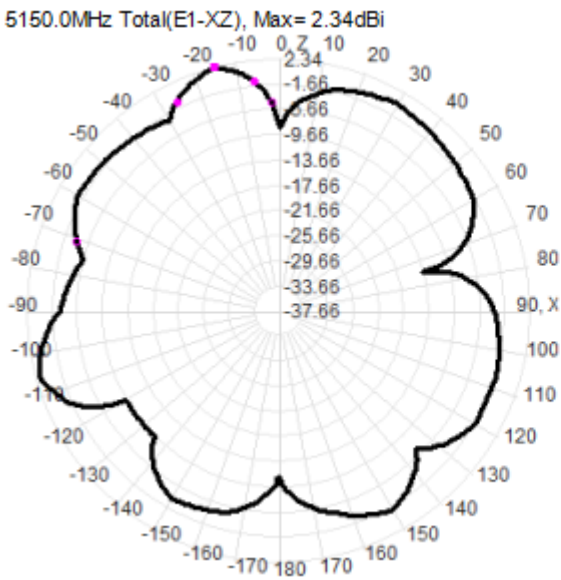
5150.0MHz H+V, Eff: 59.5%



Back View

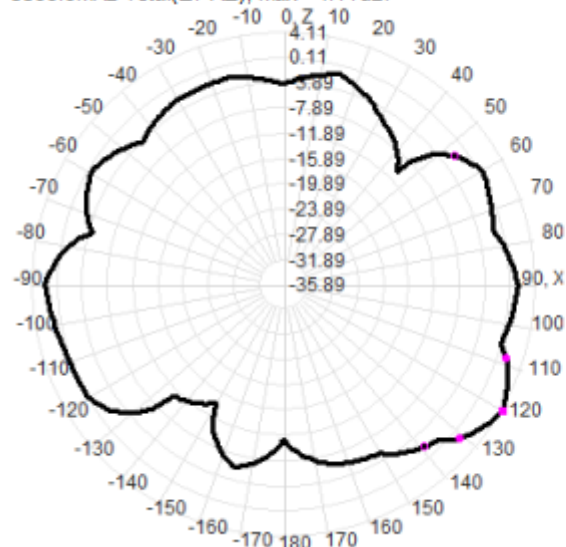


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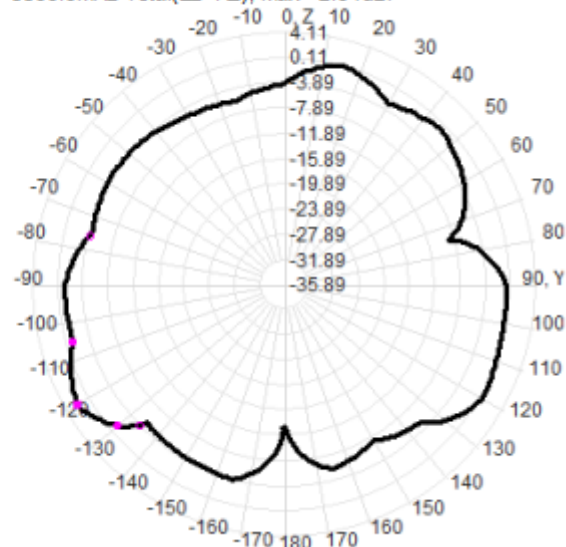


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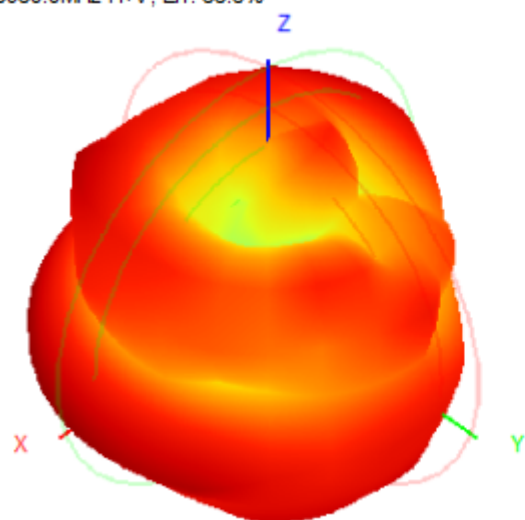
5500.0MHz Total(E1-XZ), Max= 4.11dBi



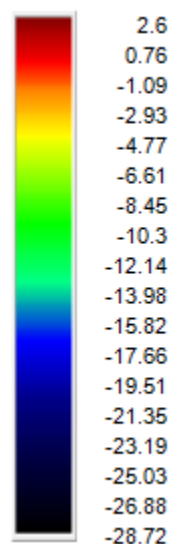
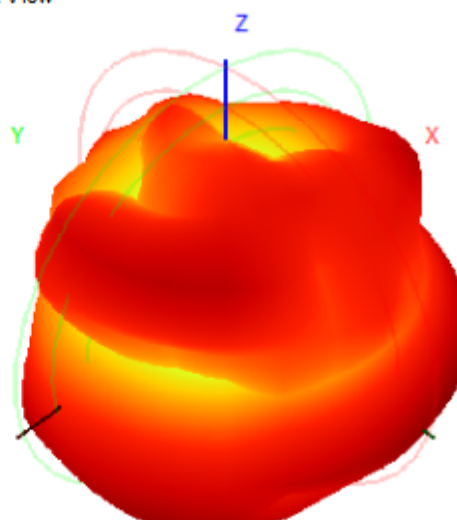
5500.0MHz Total(E2-YZ), Max= 2.04dBi



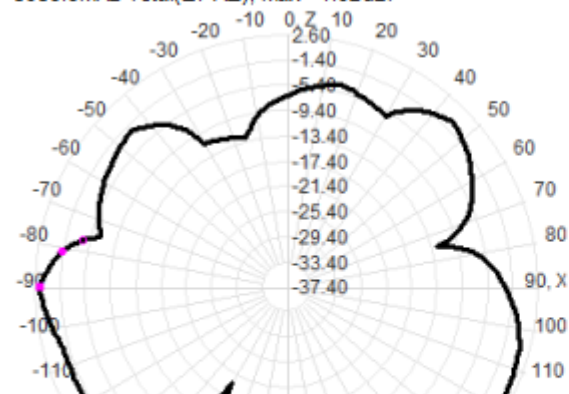
5850.0MHz H+V, Eff: 55.3%



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5850.0MHz Total(E1-XZ), Max= 1.82dBi



5850.0MHz Total(E2-YZ), Max= 1.83dBi

