

Product Name: WiFi Triple Band Antenna – WT32D1- KX 001

Part Number: H2B1WD1A3B0200

Features:

- Stable and reliable in performances
- Compact size
- RoHS 2.0 Compliant

Applications:

- IEEE802.11(a/b/g/n/ac)
- Hand-held devices when IEEE802.11(a/b/g/n/ac) functions are needed
- For Wi-Fi 6 & 6E network communication products

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WiFi Triple Band Antenna

MODEL: WT32D1-KX 001

Version: A

I. Specifications:

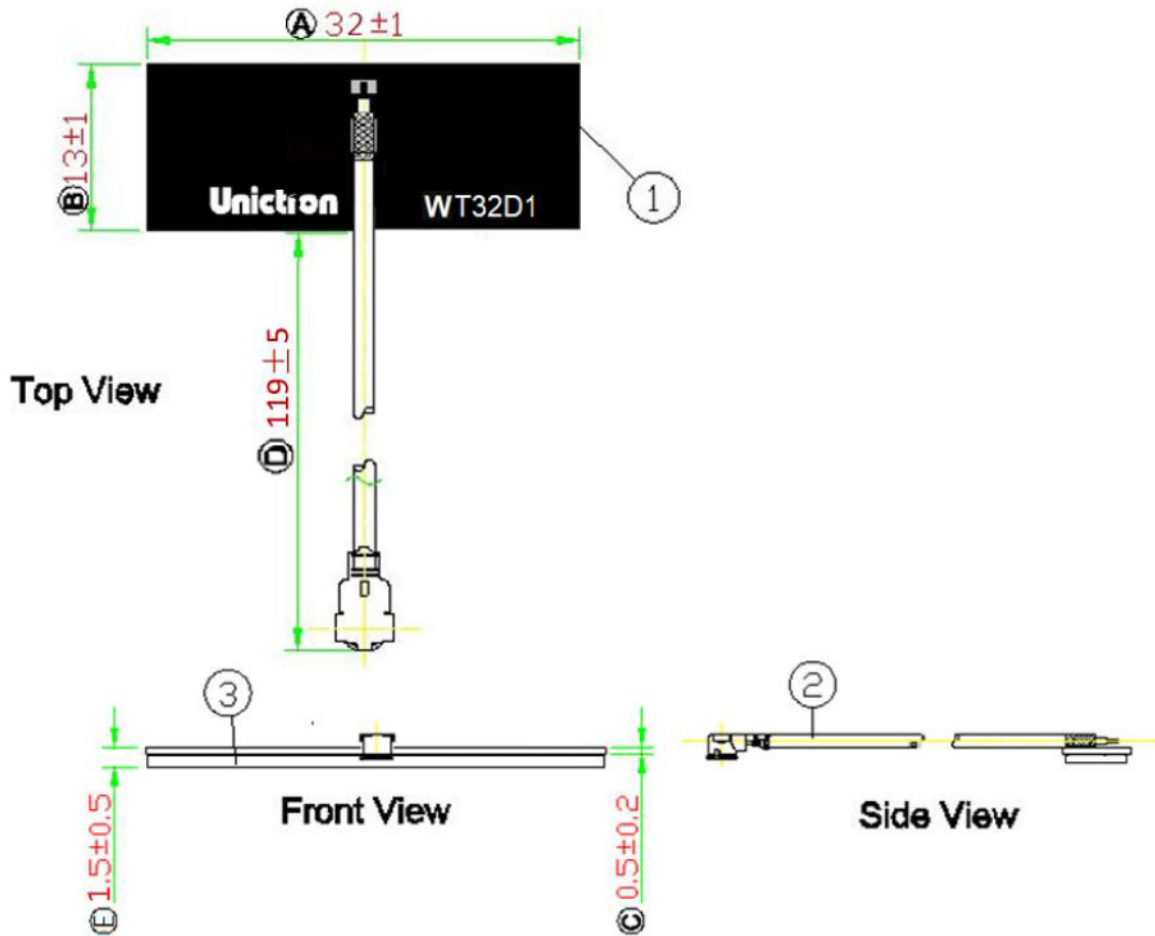
Items	Specifications		
Frequencies (MHz)	2400~2485 MHz	5150~5850 MHz	5925~7125 MHz
VSWR	2 Max.	2 Max.	2 Max.
Efficiency (%)	81 Max.	65 Max.	73 Max.
Average Gain (dB)	-0.9 Max.	-1.9 Max.	-1.2 Max.
Peak Gain (dBi)	3 Max.	4 Max.	4 Max.
Impedance (Ω)	50		
Polarization	Linear Polarization		

Mechanical Specifications	
Dimensions (mm)	32(L) x 13 (W) x 1.5 (H)
Material	FR4
Environmental Conditions	
Operation & Storage Temperature ($^{\circ}$ C)	-10 ~ +85
Storage Temperature ($^{\circ}$ C) (Antenna with packing sealed)	-5 ~ +40
Relative Humidity	10 ~ 70 %
UL94 rating	V-0

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II. Dimensions of antenna with cable (unit: mm)



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NOTE:

1. All materials are RoHS2.0 compliant.
2. "A~E" Critical Dimensions.
3. "()" Reference Dimensions.

Item	Name	Material	Color	Q'ty
1	WT32D1_PCB (32mm*13mm*0.5mm)	FR4	Black	1
2	I-PEX Connector (MHF I) _ Cable 1.13mm	FEP	Gray	1
3	Adhesive (3M 9810T-1T)	-	-	1

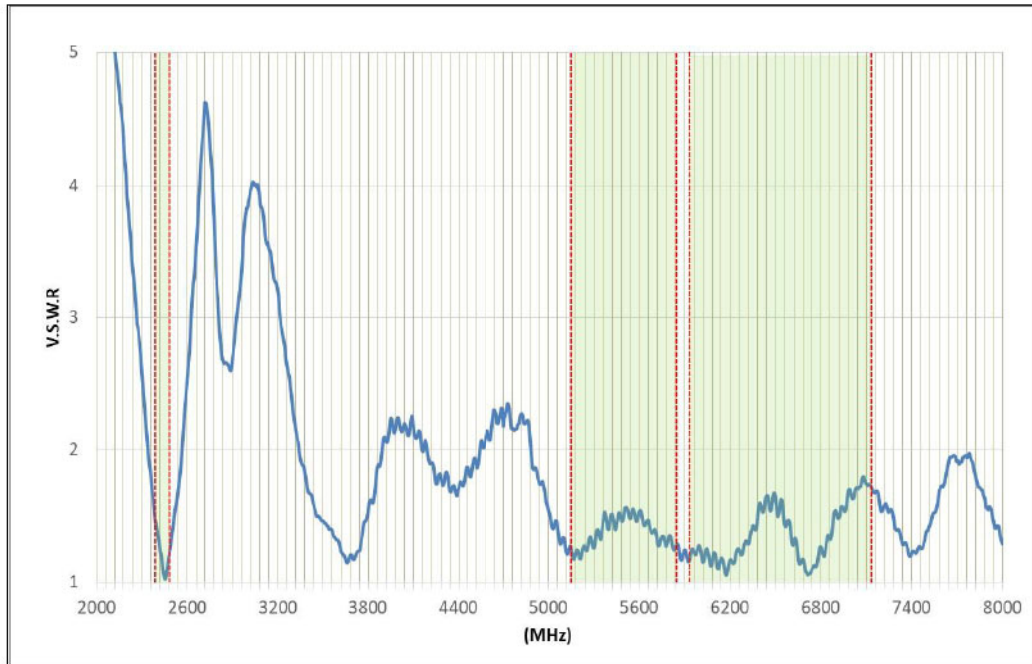
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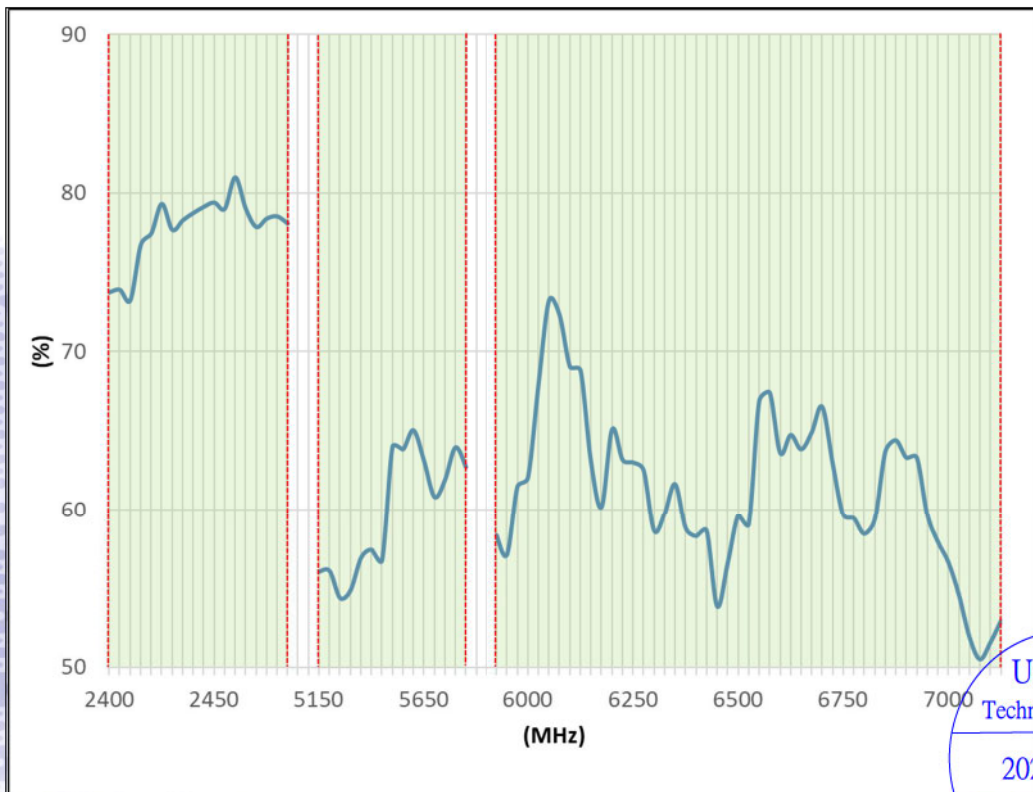
III. Properties:

a) VSWR



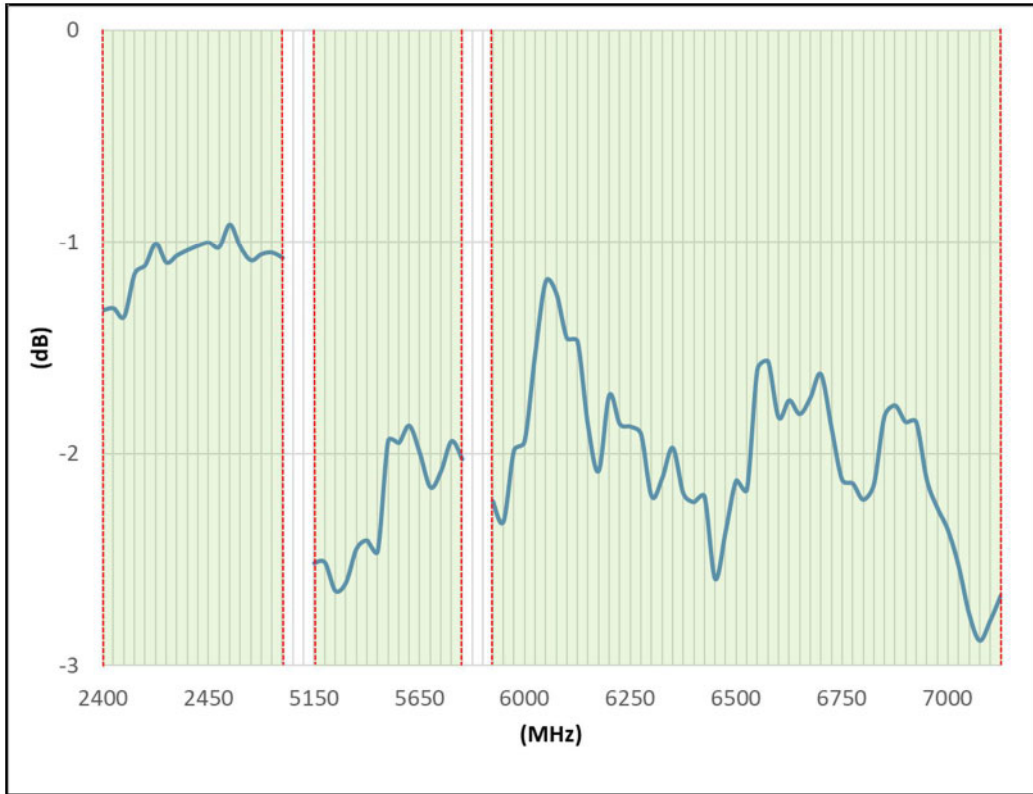
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b) Efficiency (%)



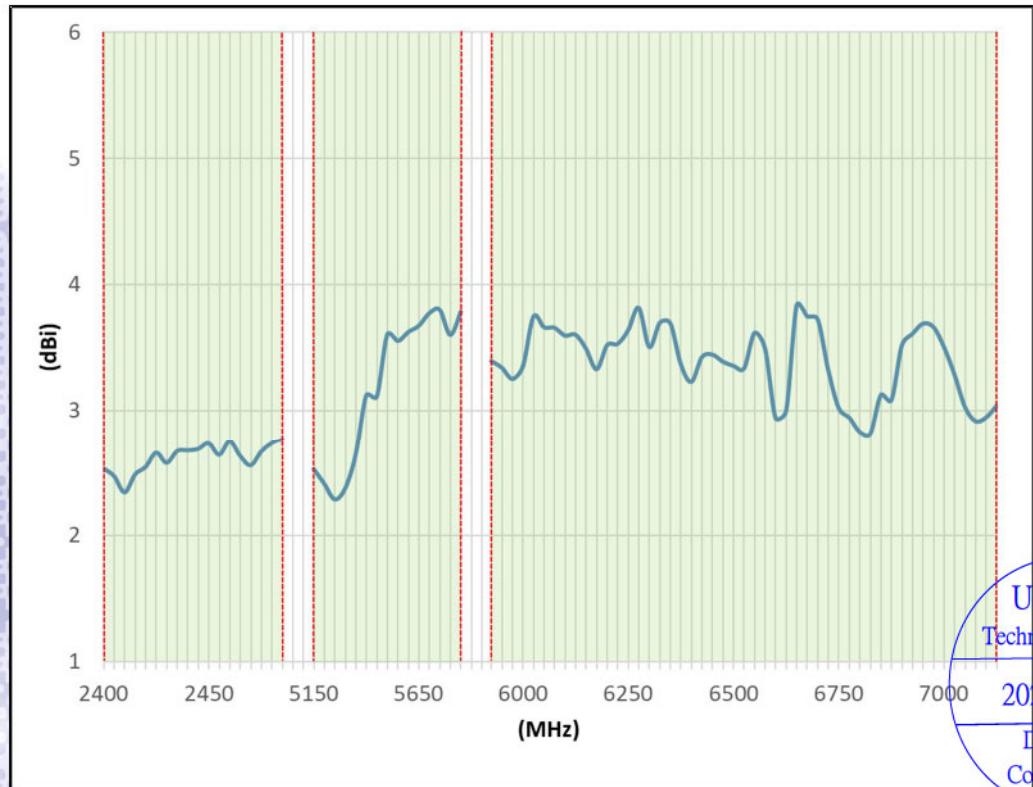
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c) Average Gain (dB)



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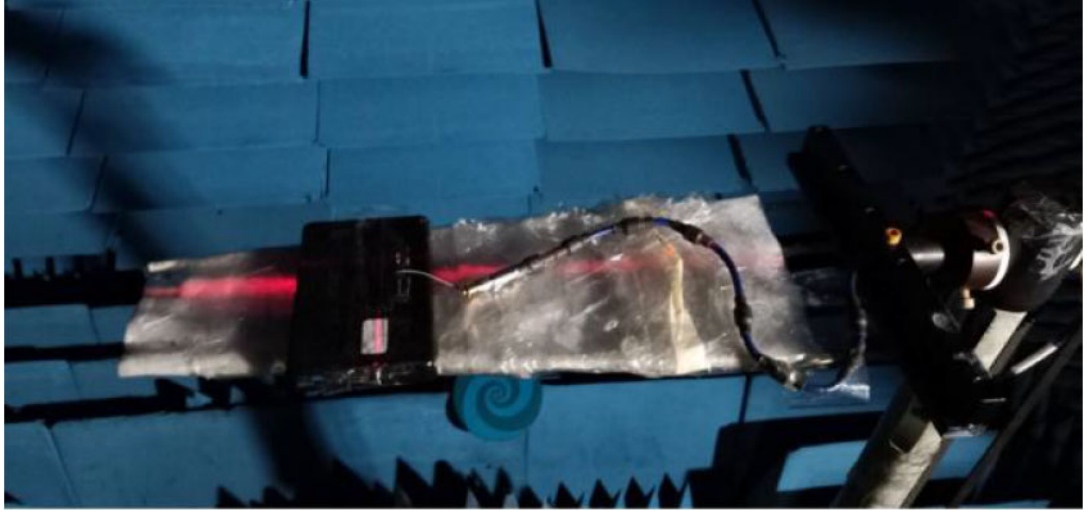
d) Peak Gain (dBi)



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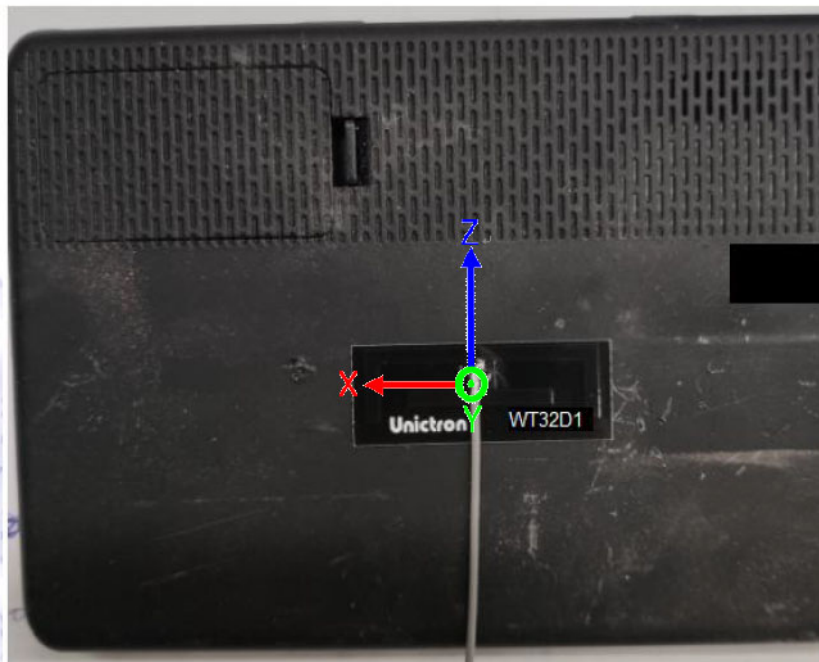
IV. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in Unictron's 3D Anechoic Chamber. The measurement setup is as show below.

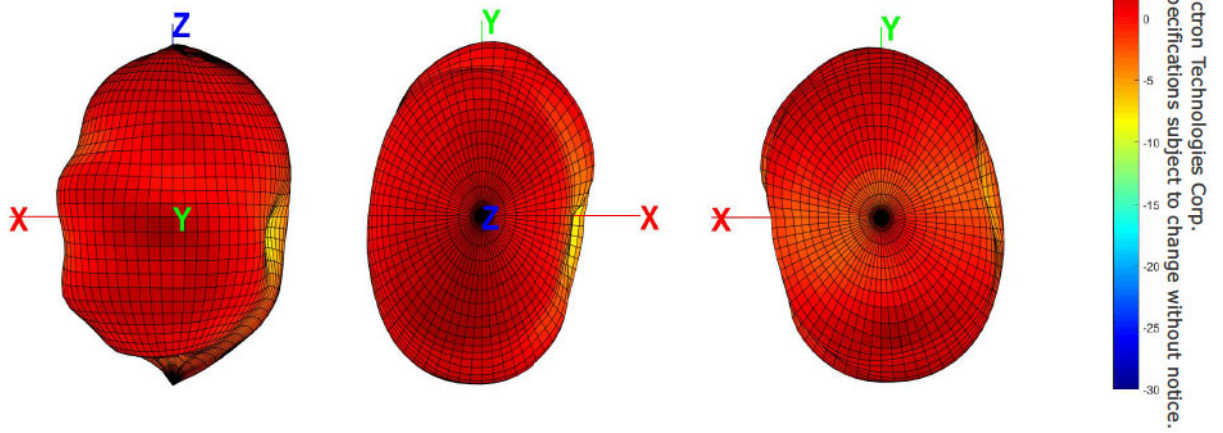


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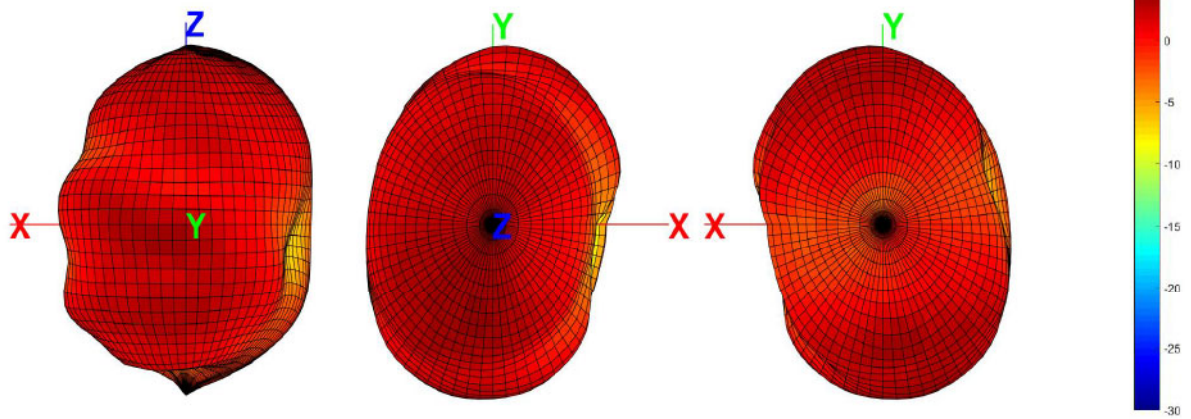
3D Radiation Gain Pattern



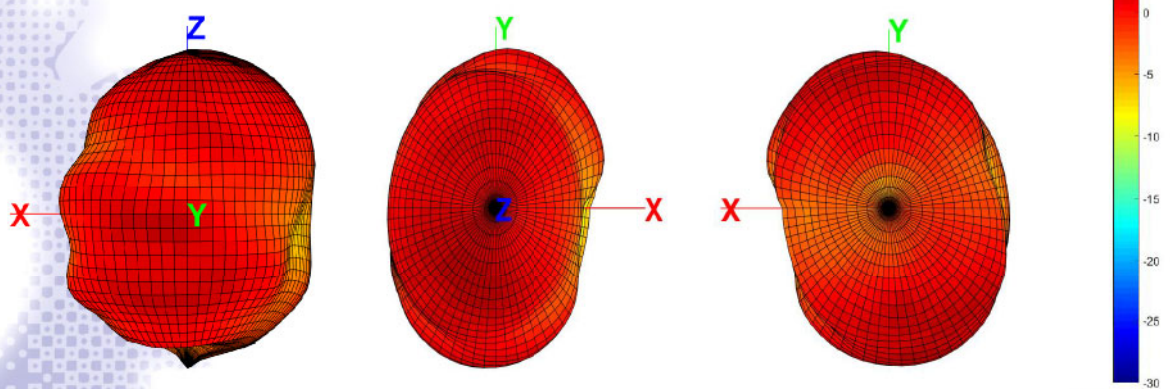
a) 2400 MHz (unit: dBi)



b) 2445 MHz (unit: dBi)

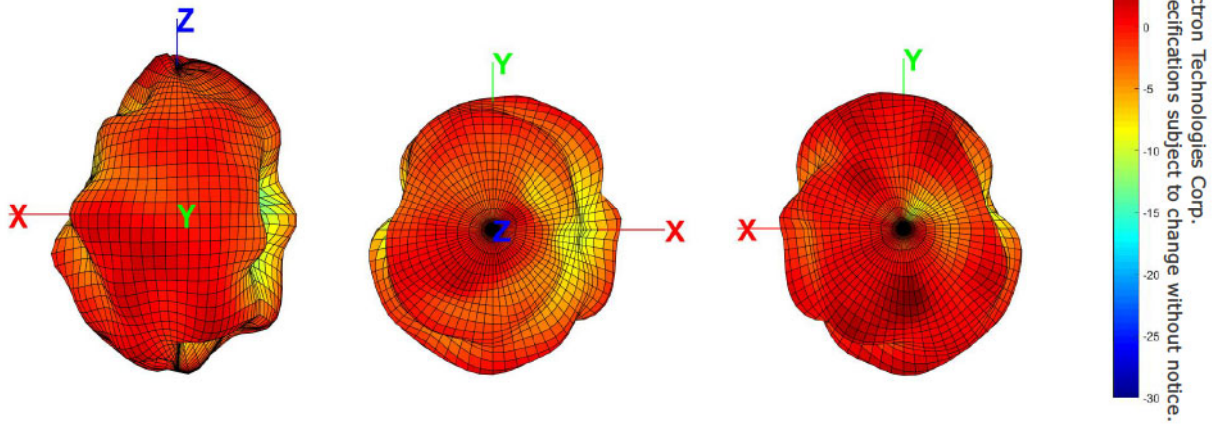


c) 2485 MHz (unit: dBi)

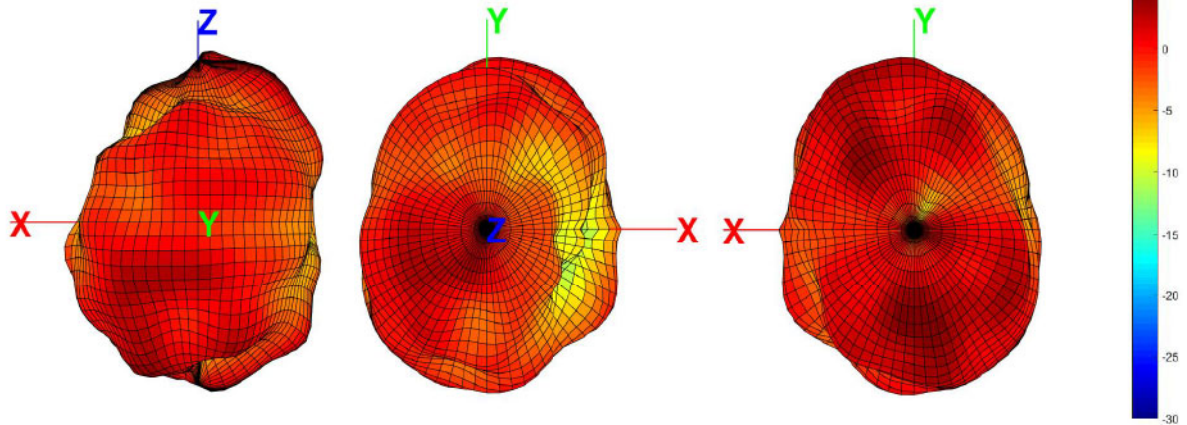


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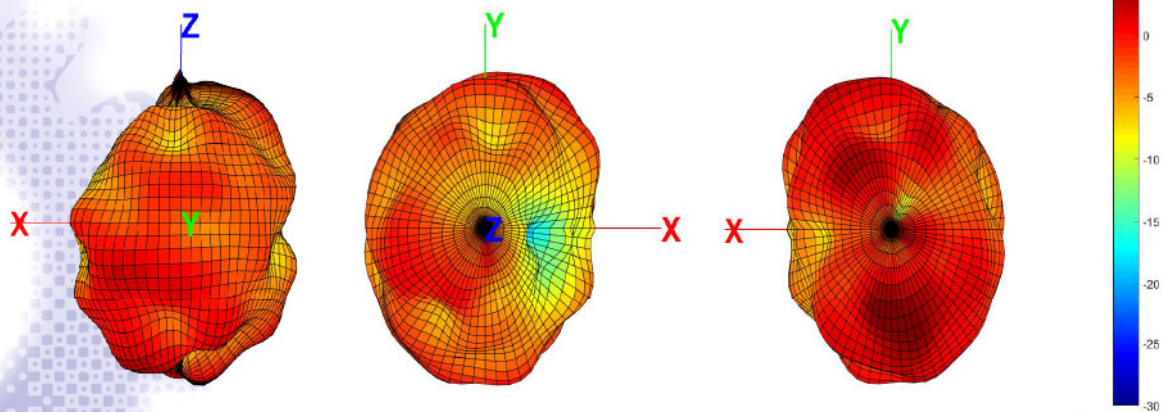
d) 5150 MHz (unit: dBi)



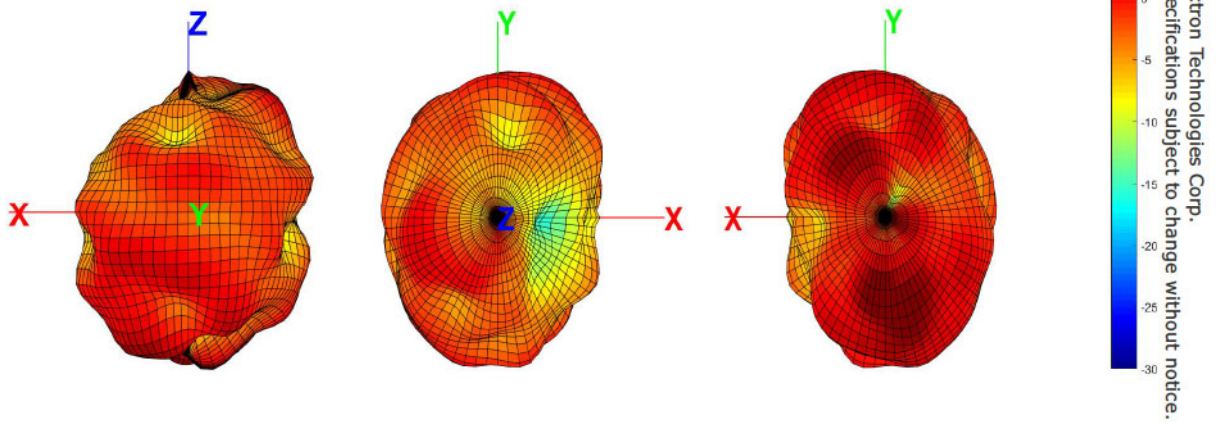
e) 5550 MHz (unit: dBi)



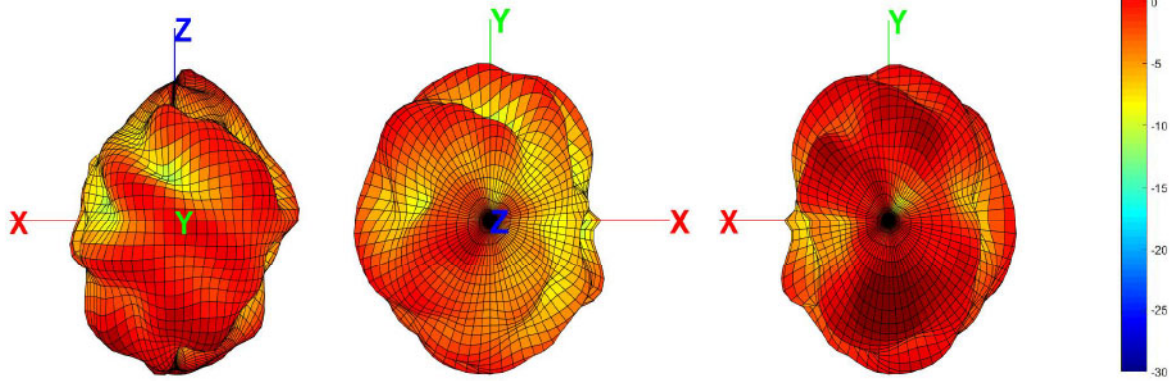
f) 5850 MHz (unit: dBi)



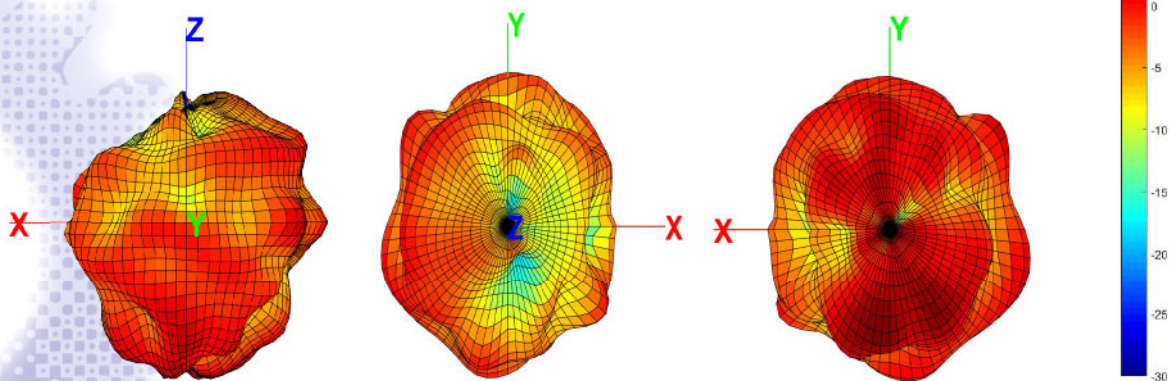
g) 5925 MHz (unit: dBi)



h) 6500 MHz (unit: dBi)



i) 7125 MHz (unit: dBi)



V. Packing:



a) Weight:

Unit Weight: 1 ± 0.1 (g)

b) Quantity:

Each PE Bag: 25 pcs

Each Outer Box: 5,000 pcs

Process	Photos	Remark
1		Put 25 pcs in a PE bag and attach label on PE bag.
2		Put 200 PE bags into an outer box with 5,000 pcs of antenna inside.

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