

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



WiFi Triple Band Antenna

MODEL: WT32D1-KX 001

Version: A

I. Specifications:

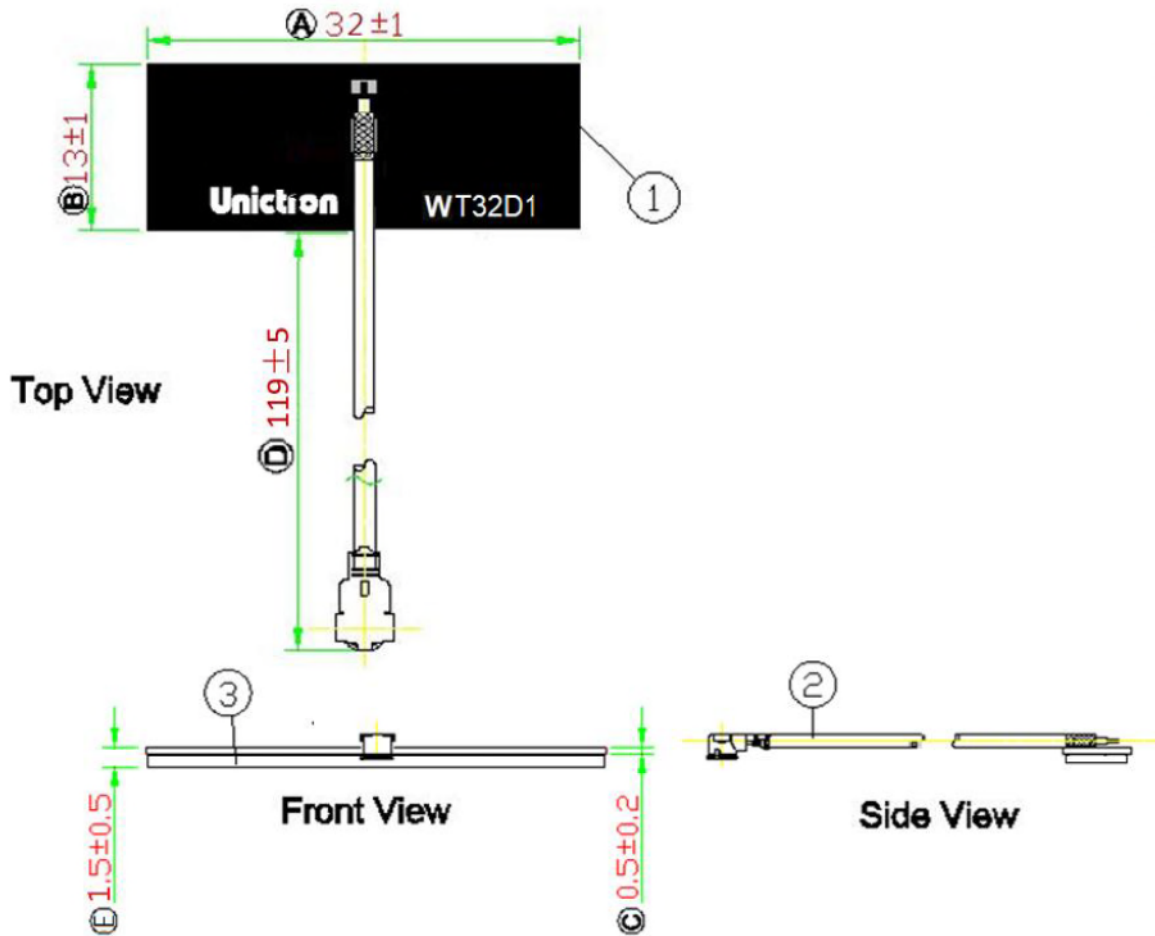
| Items | Specifications | | |
|----------------------------------------|---------------------|---------------|---------------|
| Frequencies (MHz) | 2400~2485 MHz | 5150~5850 MHz | 5925~7125 MHz |
| VSWR | 2 Max. | 2 Max. | 2 Max. |
| Efficiency (%) | 81 Max. | 65 Max. | 73 Max. |
| Average Gain (dB) | -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) _ Cable1.13mm | FEP | Gray | 1 |
| 3 | Adhesive (3M 9810T-1T) | - | - | 1 |

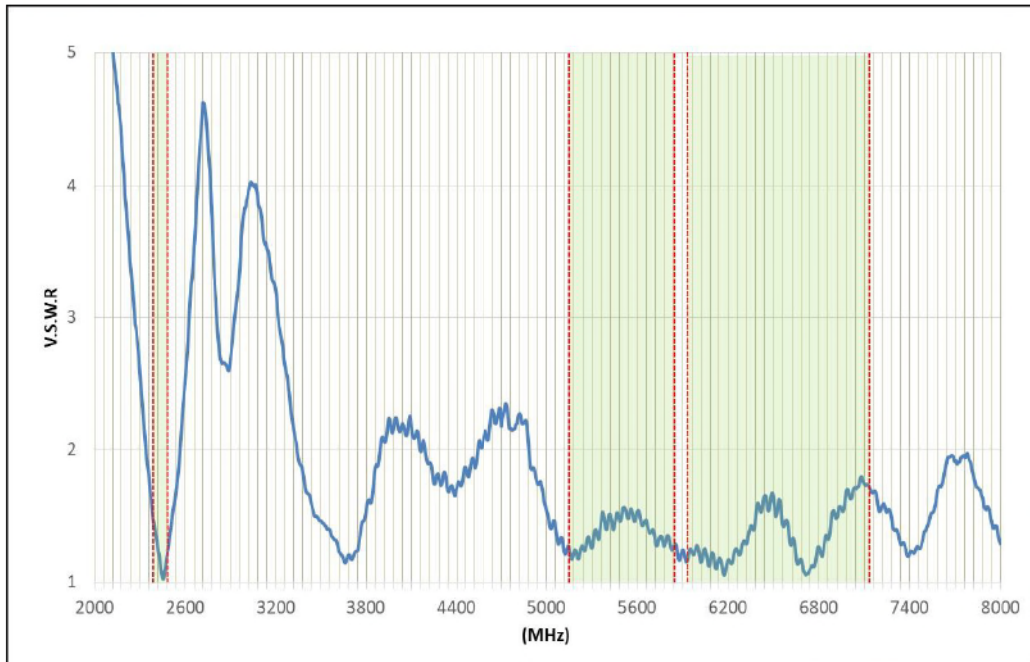
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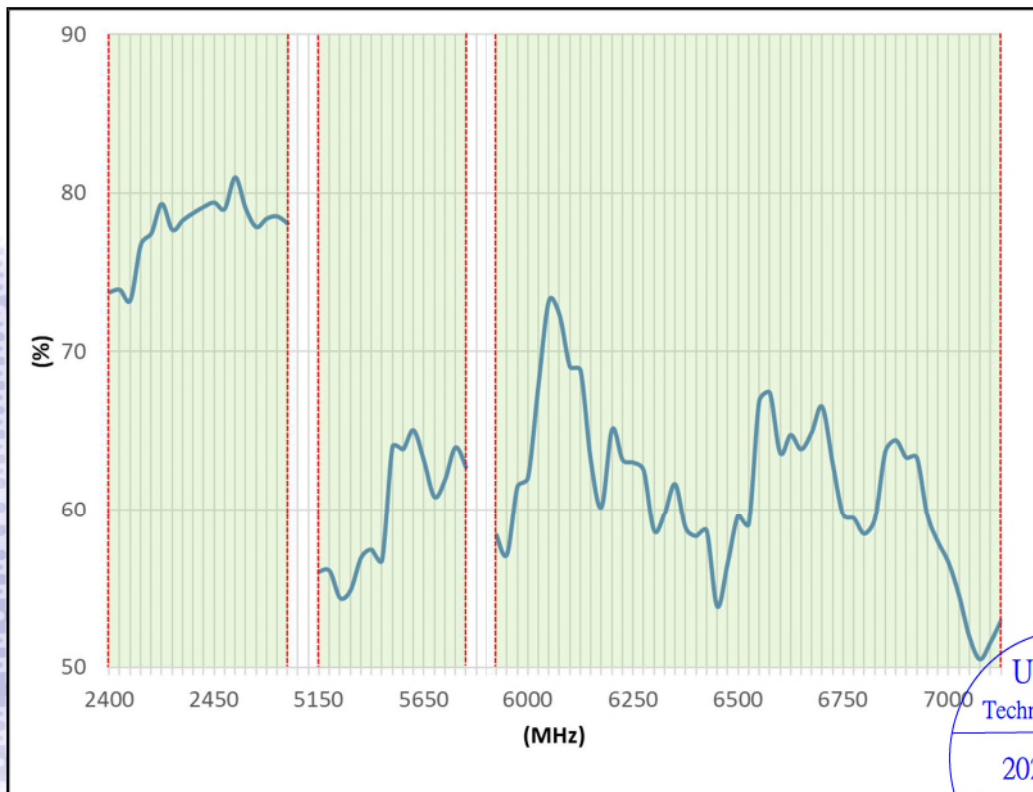
III. Properties:

a) VSWR



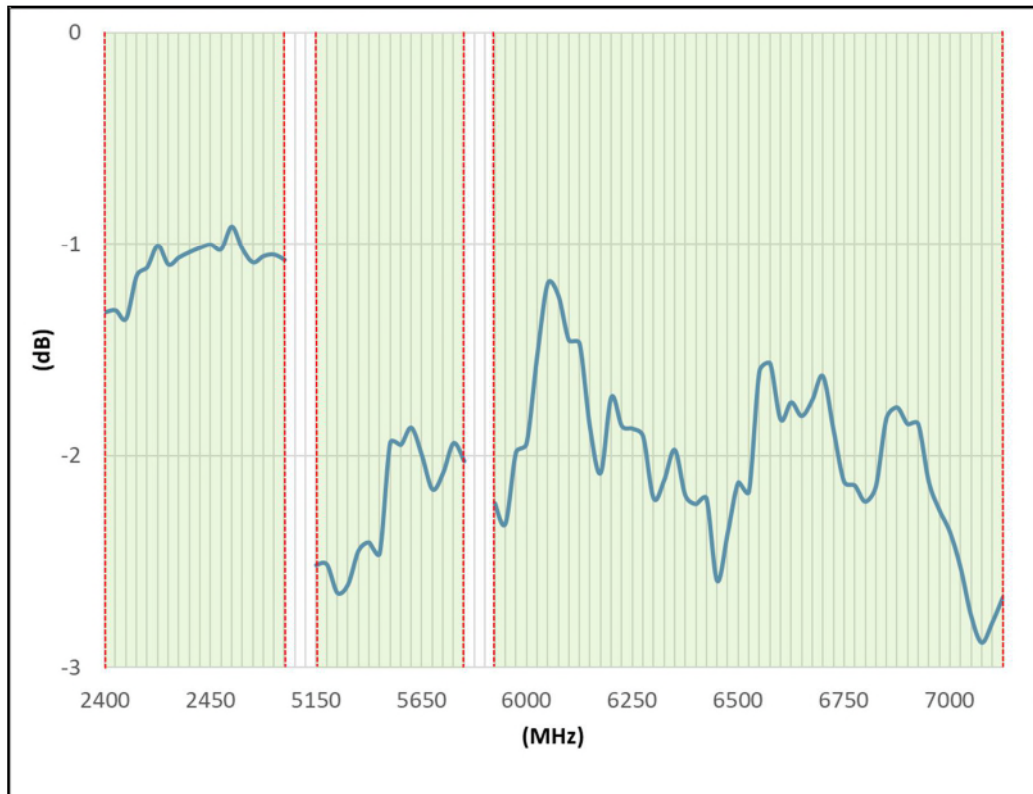
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b) Efficiency (%)



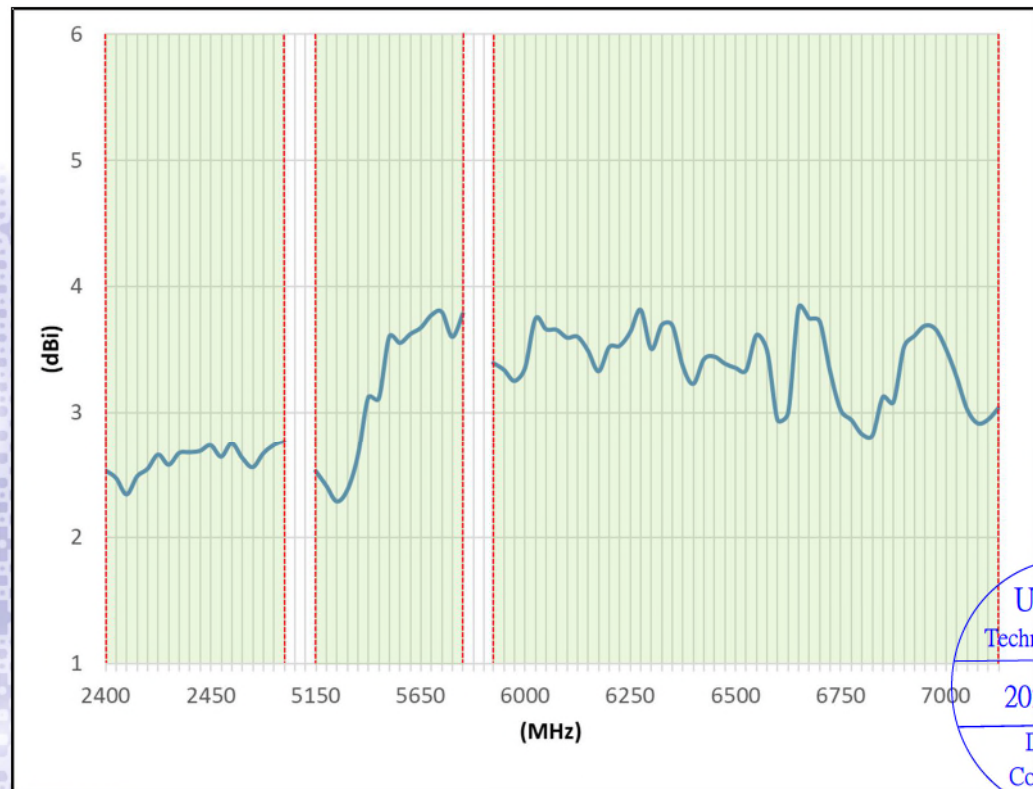
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c) Average Gain (dB)



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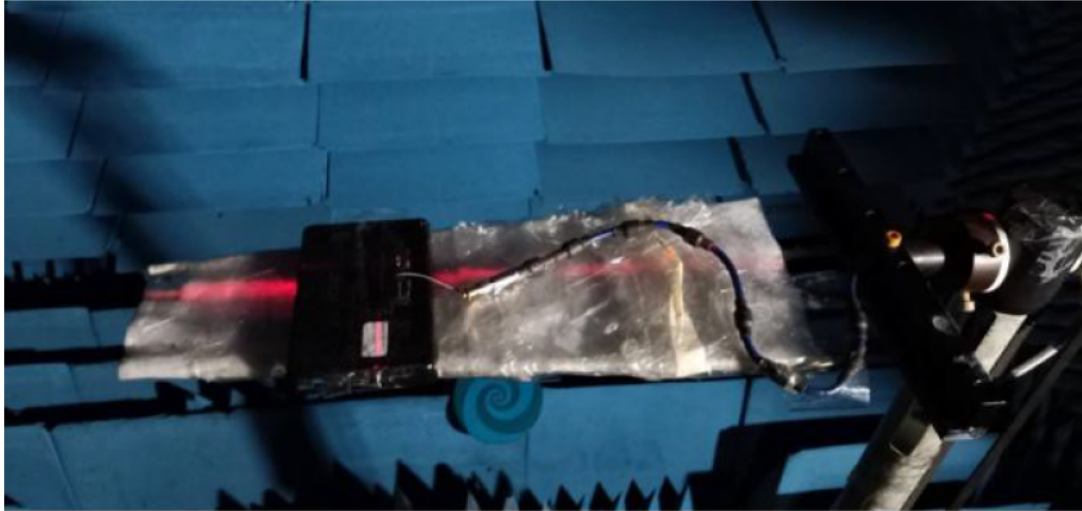
d) Peak Gain (dBi)



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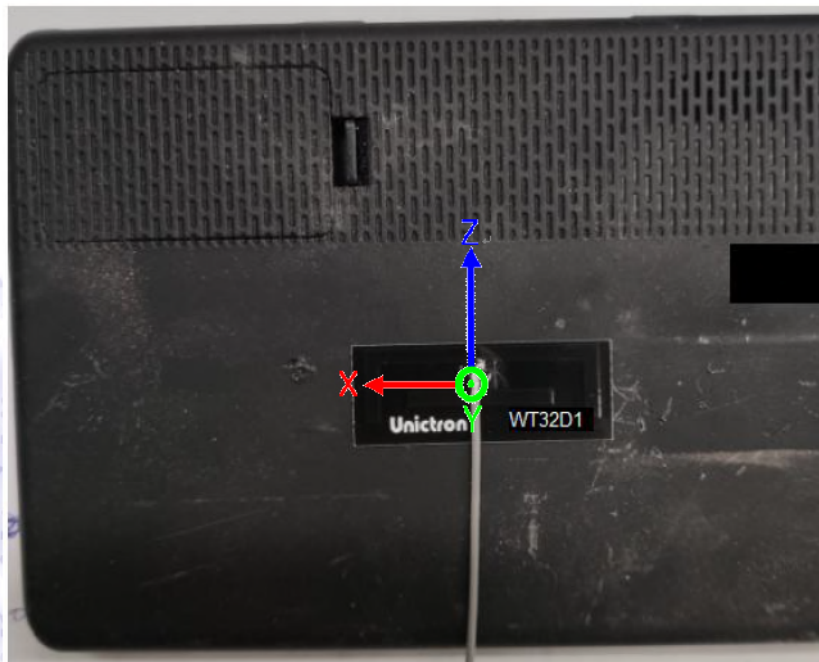
IV. Antenna Radiation Pattern Measurement:

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

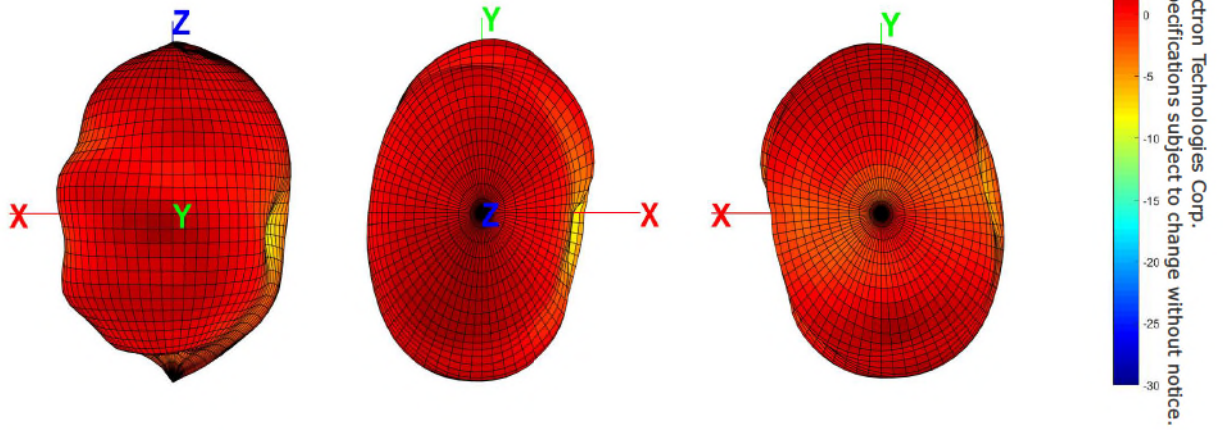


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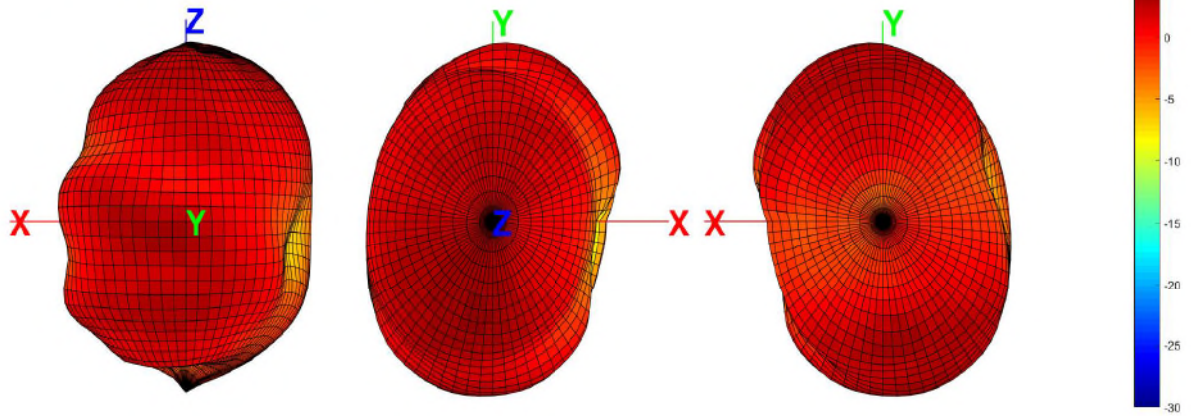
3D Radiation Gain Pattern



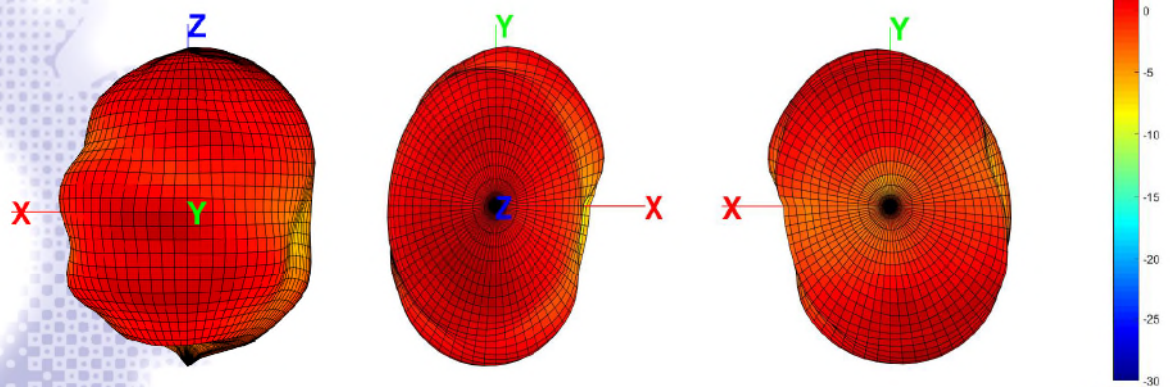
a) 2400 MHz (unit: dBi)



b) 2445 MHz (unit: dBi)

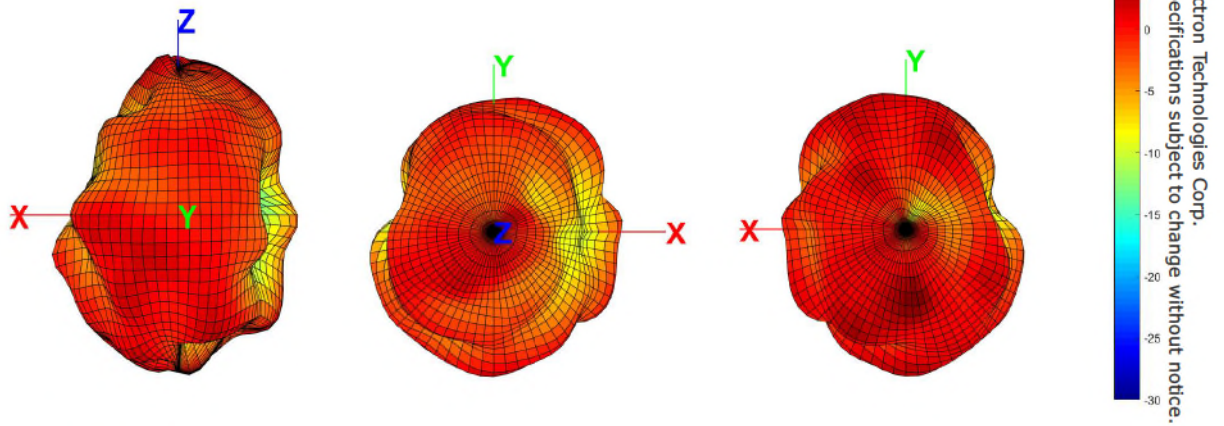


c) 2485 MHz (unit: dBi)

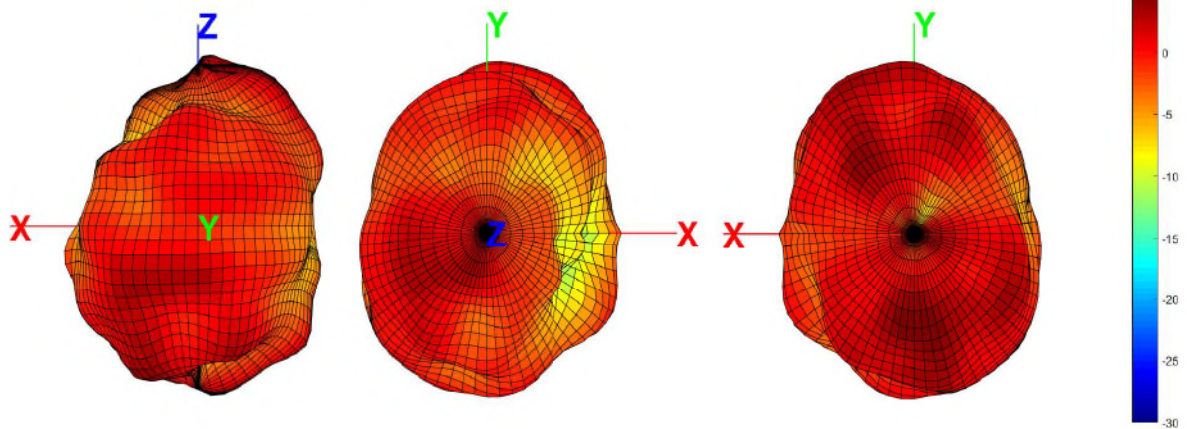


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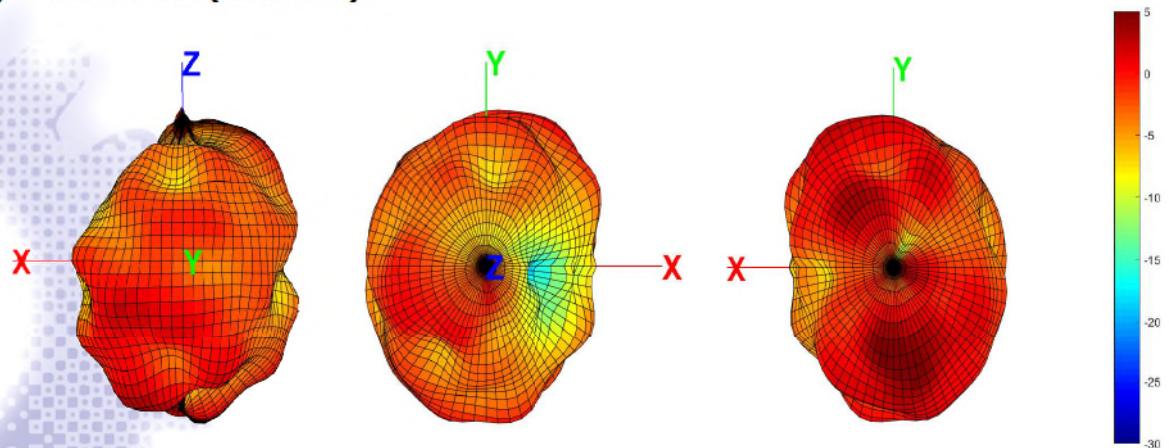
d) 5150 MHz (unit: dBi)



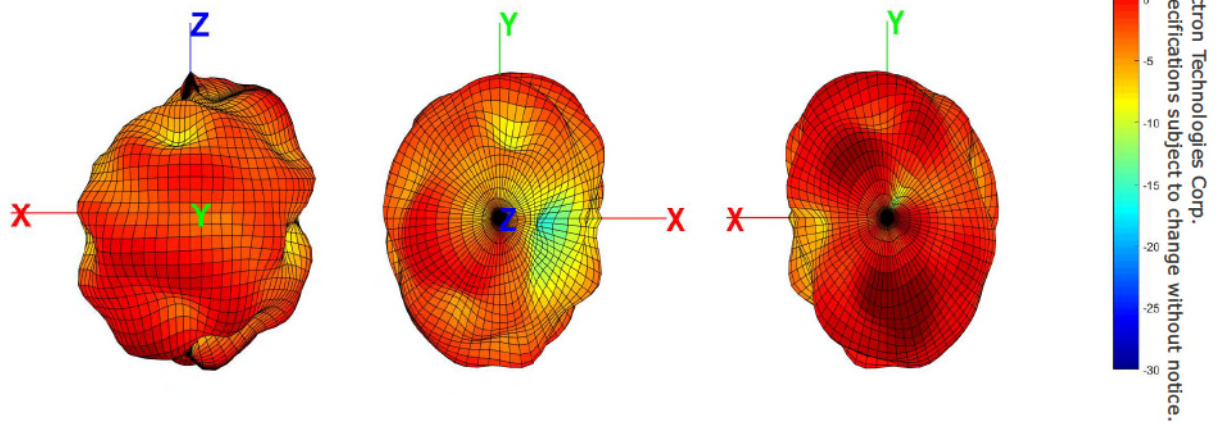
e) 5550 MHz (unit: dBi)



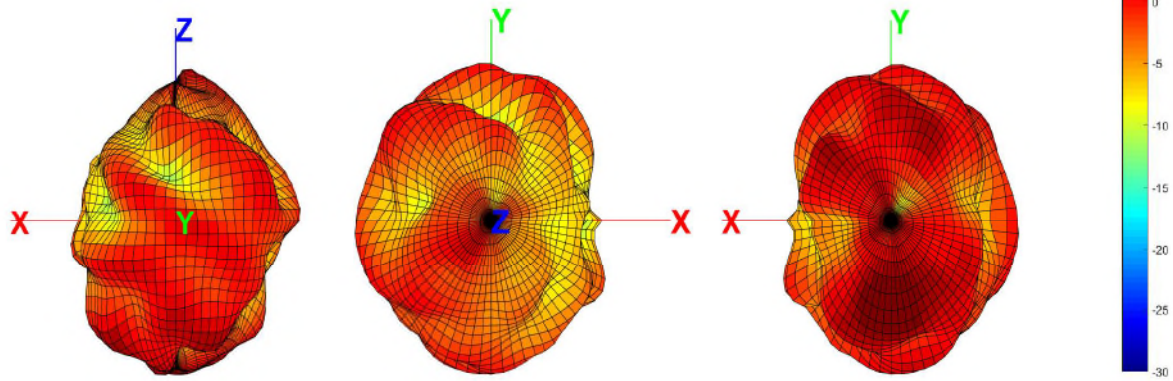
f) 5850 MHz (unit: dBi)



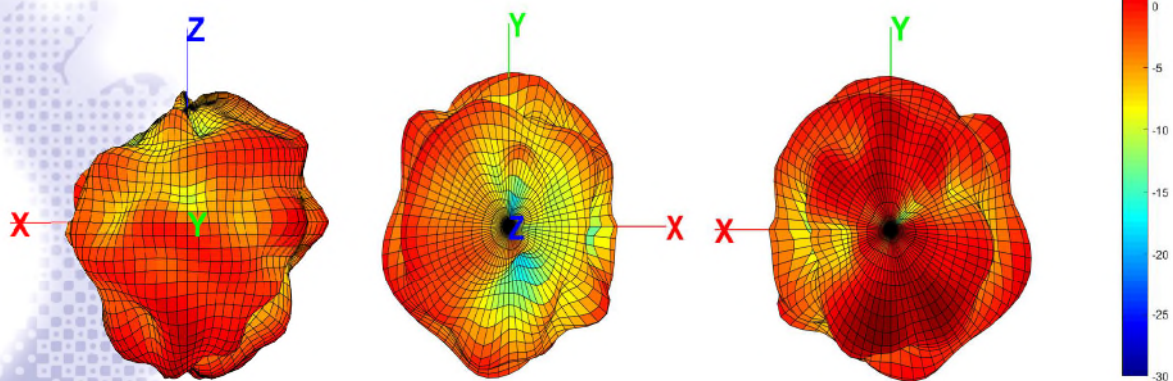
g) 5925 MHz (unit: dBi)



h) 6500 MHz (unit: dBi)



i) 7125 MHz (unit: dBi)



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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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