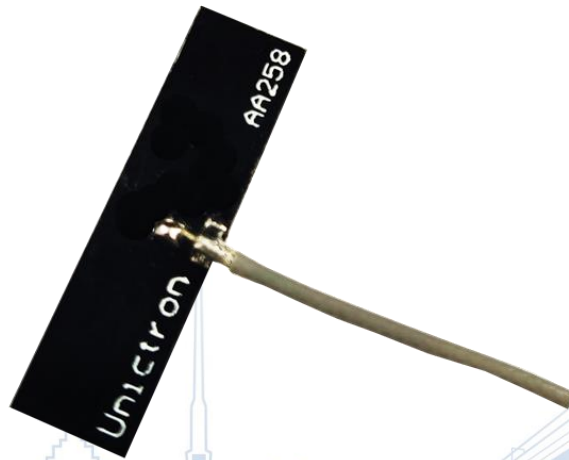




Product Name: AA258 PCB Substrate Antenna

Part Number: H2B1PC1A1C3500

Features:

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

Applications:

- IEEE802.11(a/b/g/n)
- Hand-held devices when IEEE802.11(a/b/g/n) functions are needed



PCB Substrate Antenna

MODEL: AA258

Version: B

I. PCB Antenna Specifications:

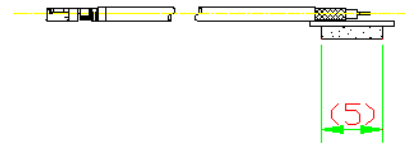
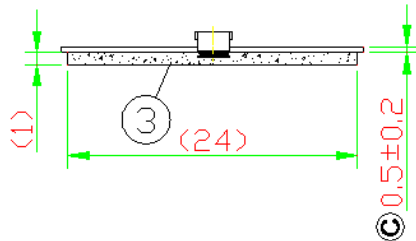
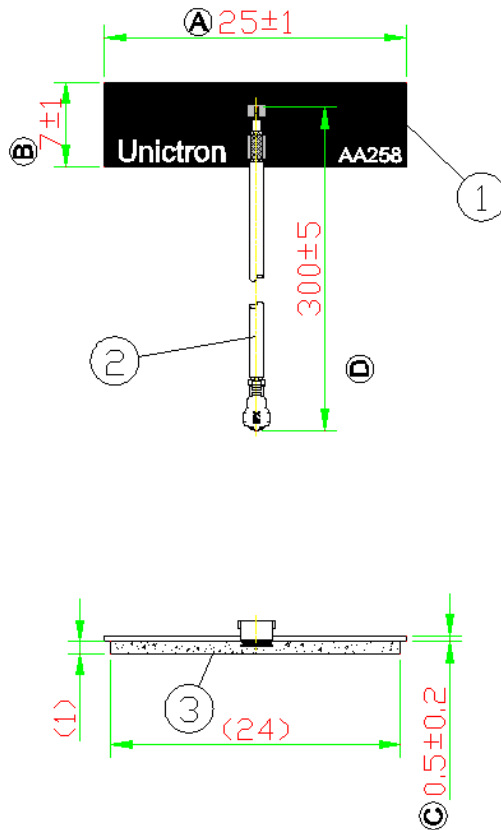
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Items	Specifications	
Center Frequency (MHz)	2400~2500	4900~5900
VSWR	<3 Typ.	<3 Typ.
Efficiency (%)	23.7 Typ.	60.4 Typ.
Average Gain (dB)	-6.3 Typ.	-2.0 Typ.
Peak Gain(dBi)	-3.1 Typ.	1.5 Typ.
Impedance(Ω)	50	
Polarization	Linear Polarization	

Mechanical Specifications	
Dimensions (mm)	25 (L) x 7 (W) x 0.5 (H)
Material	FR4
Environmental Conditions	
Operation Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-5 ~ +40
Relative Humidity	10 ~ 70 %



II. Antenna Dimensions (unit: mm):



NOTE:

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

Item	Description	Material	Color	Q'ty
1	AA258_PCB	FR4	Black	1
2	Connector (MHF I)+Cable(Φ1.13mm),L=300mm	FEP	Gray	1
3	Adhesive 3M_9810T	Non-woven cellulose		2

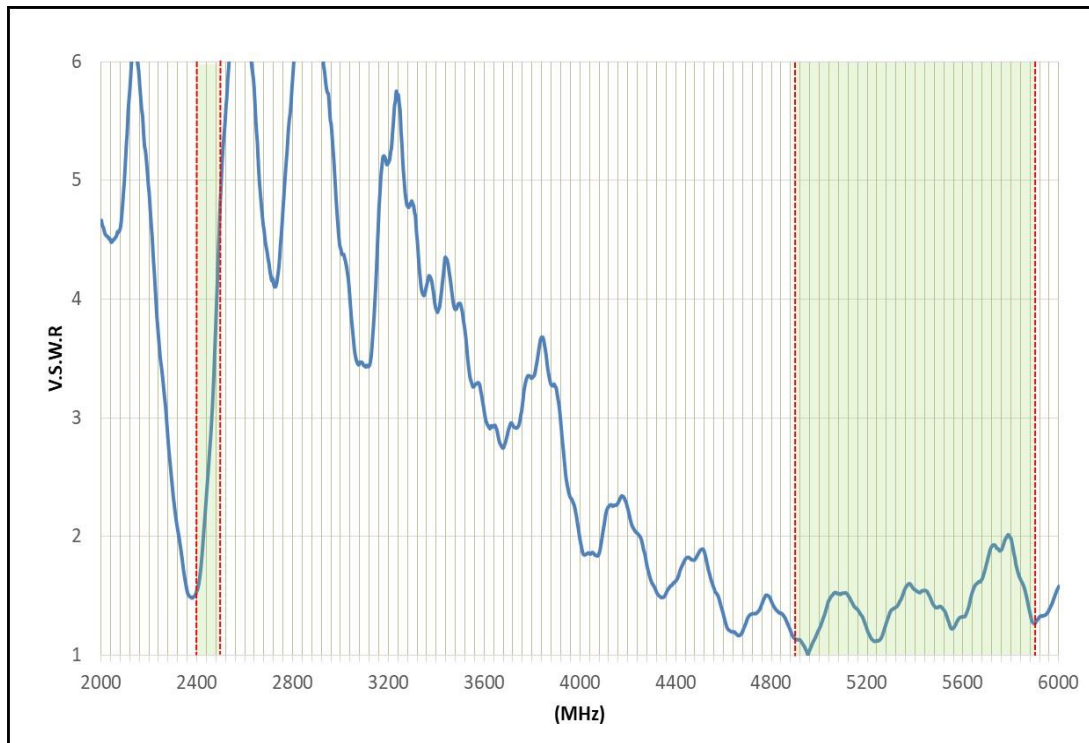
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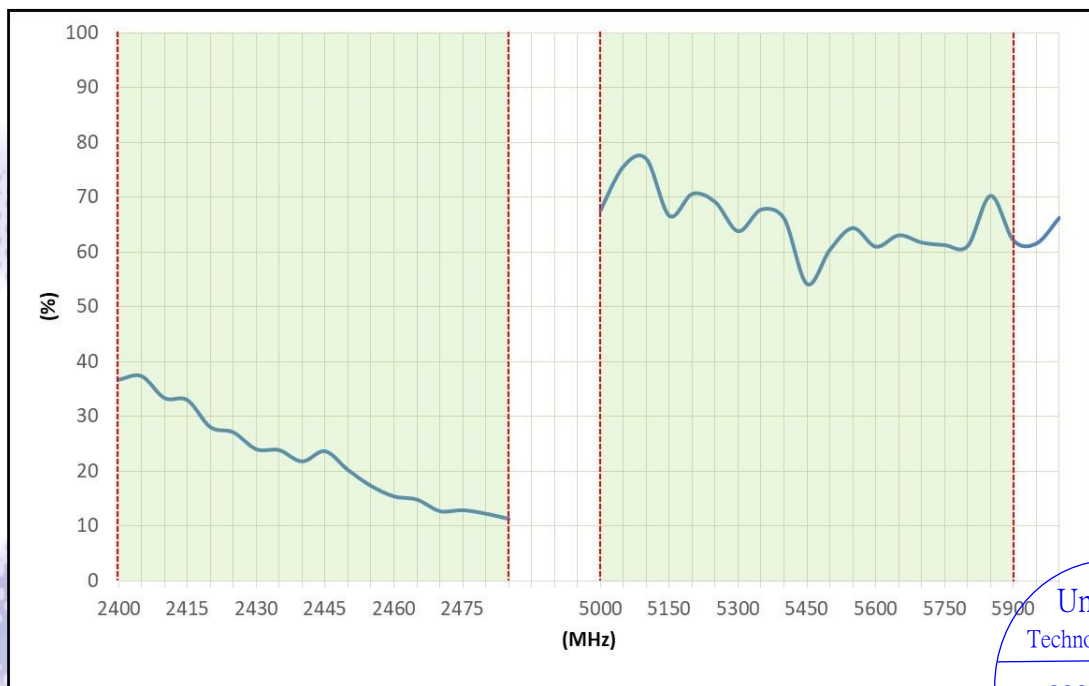
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III. Properties:

a) VSWR



b) Efficiency (%)



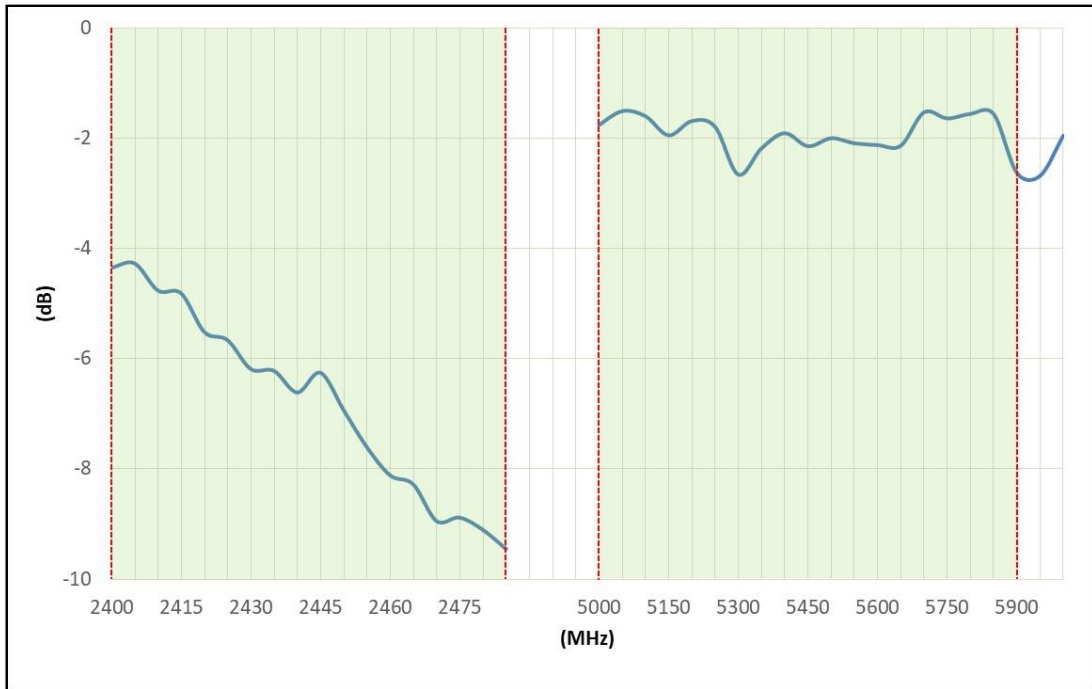
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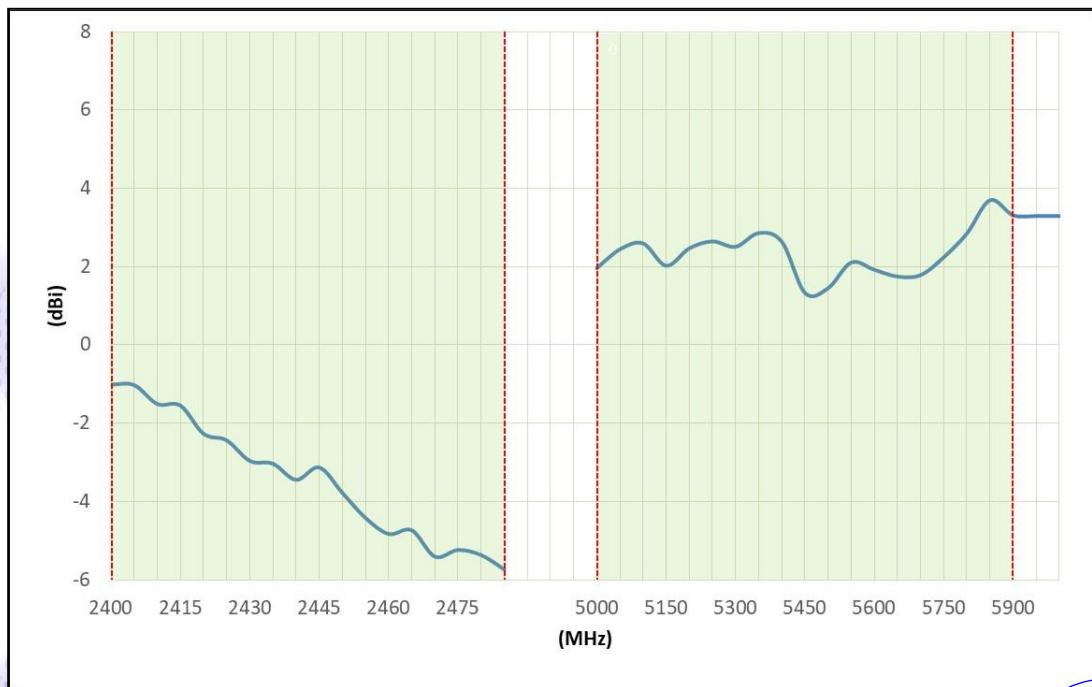
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c) Average Gain (dB)



d) Peak Gain(dBi)



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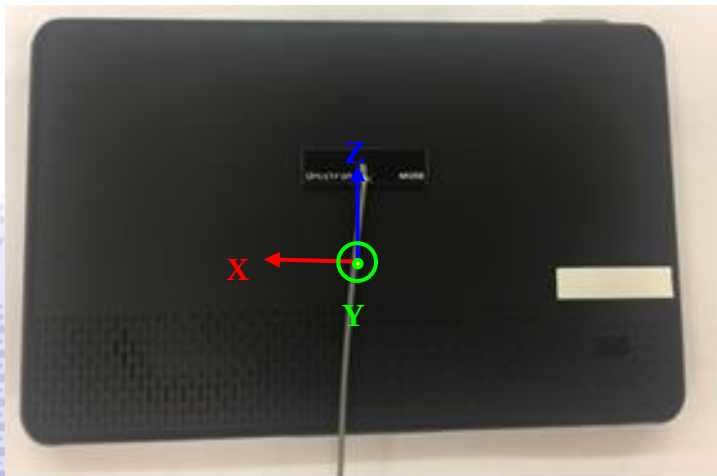
IV. Antenna Radiation Pattern Measurement:

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

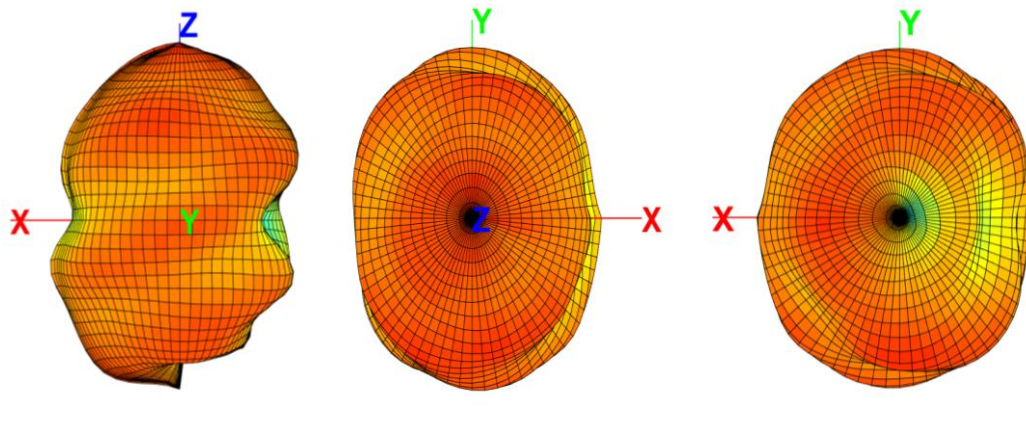


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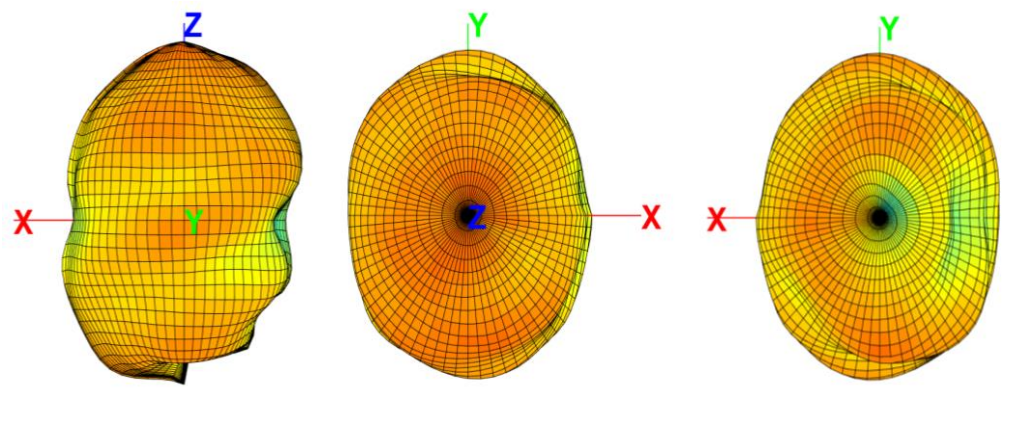
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a) 3D Gain Pattern @ 2400 MHz (unit: dBi)

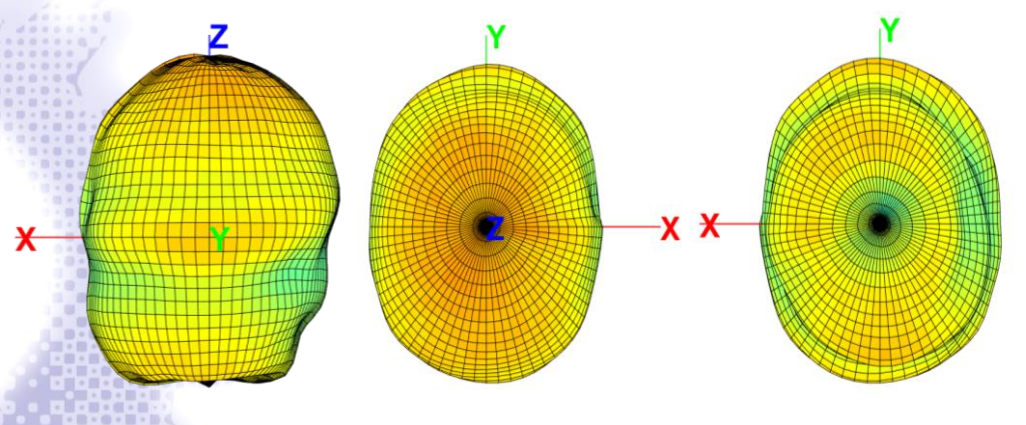


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b) 3D Gain Pattern @ 2445 MHz (unit: dBi)

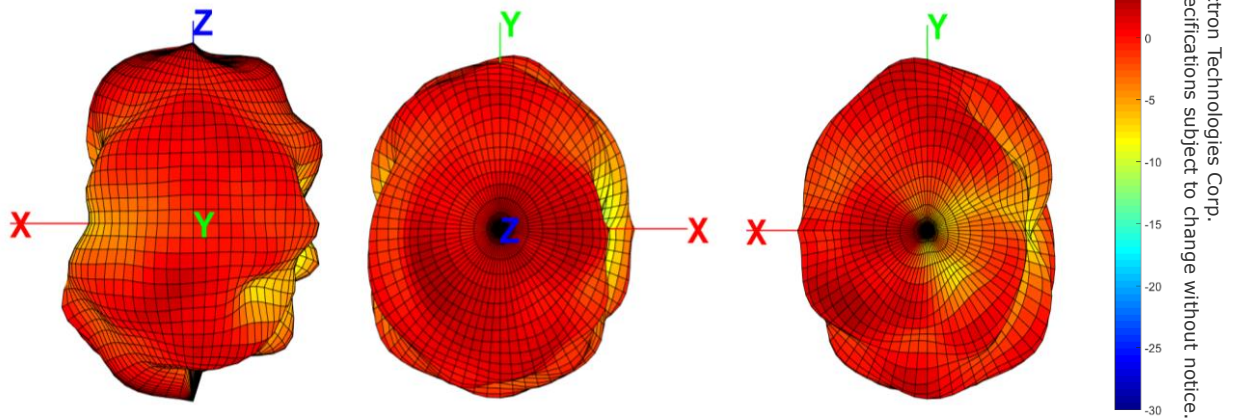


c) 3D Gain Pattern @ 2485 MHz (unit: dBi)

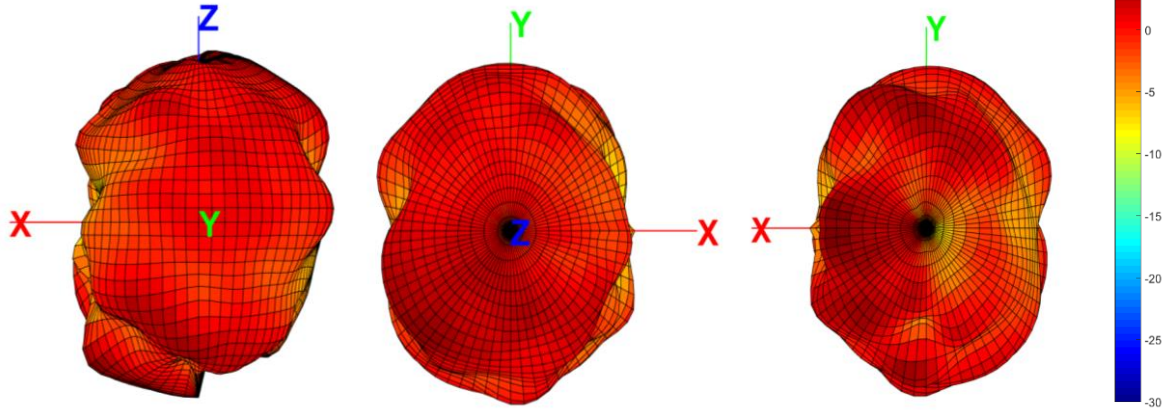


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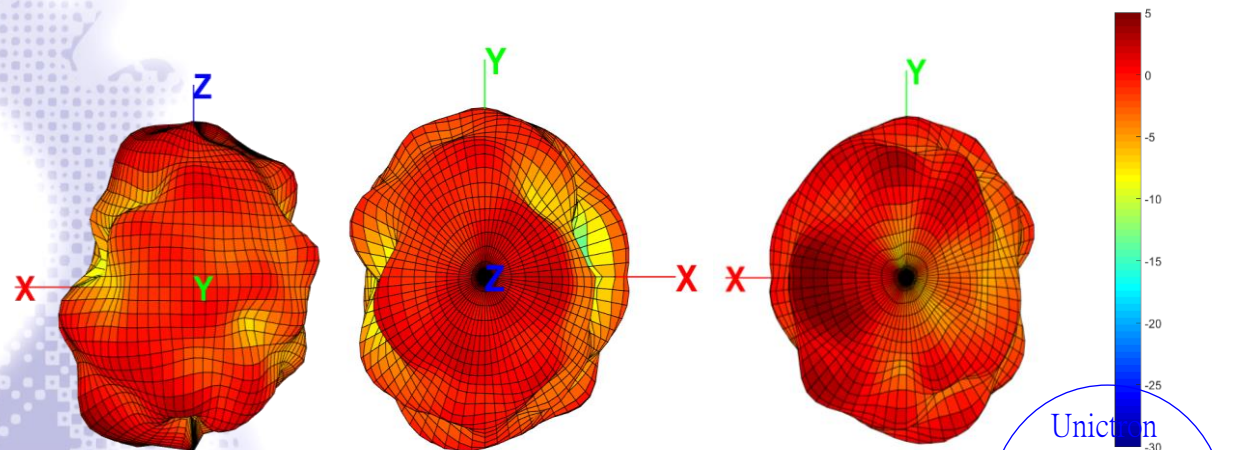
d) 3D Gain Pattern @ 5150 MHz (unit: dBi)



e) 3D Gain Pattern @ 5550 MHz (unit: dBi)



f) 3D Gain Pattern @ 5850 MHz (unit: dBi)



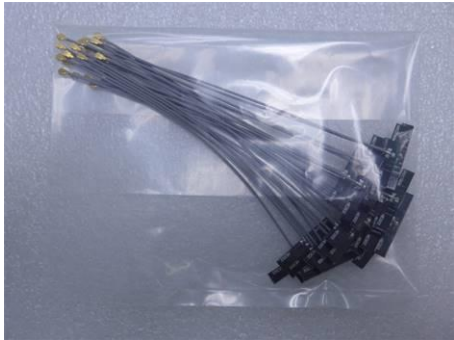
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V. Packing:

- a) Weight:
Unit Weight: 1.5 ± 0.5 (g)
- b) Quantity:
Each PE Bag: 25 pcs
Each Outer Box: 5000 pcs

Step	Pictures	Descriptions
1		Put 25 pcs in a PE bag and attach label on PE bag.
2		Put 200 PE bags into an outer box with 5000 pcs of antenna inside.

