

PSA

佳邦科技股份有限公司

INPAQ TECHNOLOGY CO., LTD.

**PSA**

**PASSIVE SYSTEM ALLIANCE**  
**INPAQ TECHNOLOGY CO., LTD.**

# 光寶- WB312L

Presented by

Ethan

2024/ 12/ 16



# OUTLINE

## 1. Measurement Information

- 1.1 Experimental Setup
- 1.2 Antenna Solution Detail

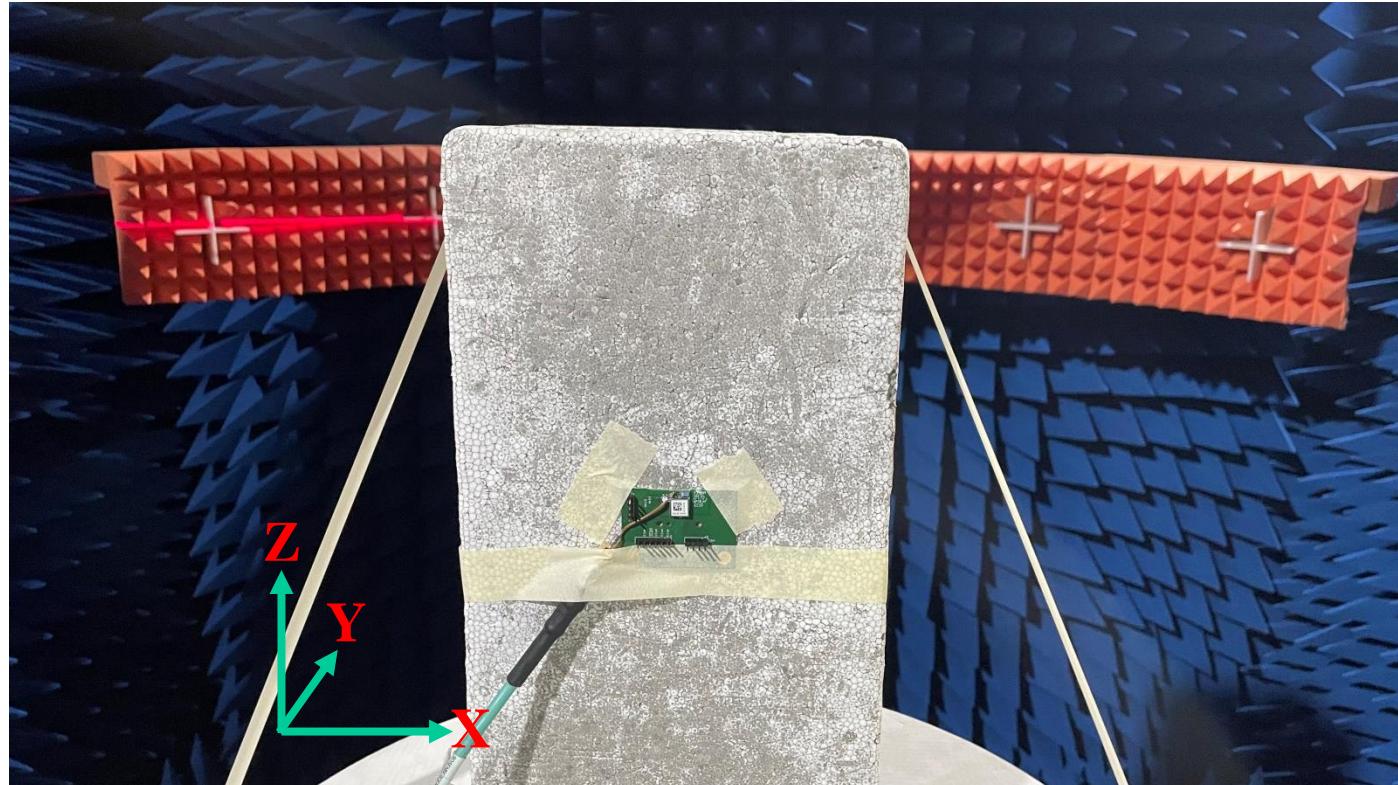
## 2. Antenna Characteristics

- 2.1 S-Parameter
- 2.2 Antenna Efficiency and Peak Gain
- 2.3 2D Radiation Patterns

## 3. Summary

# 1. Measurement Information

## 1.1 Experimental Setup



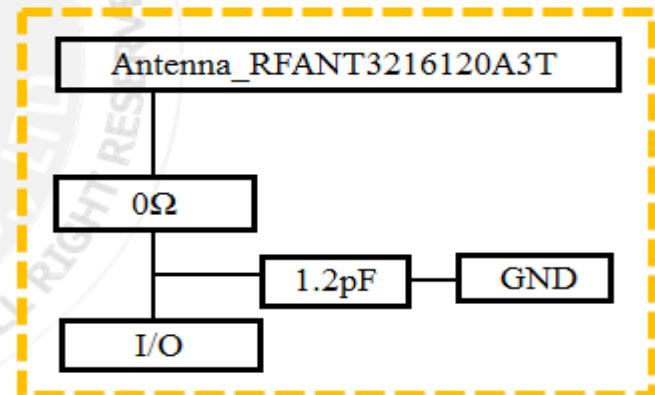
# 1. Measurement Information

## 1.2 Antenna Solution Detail



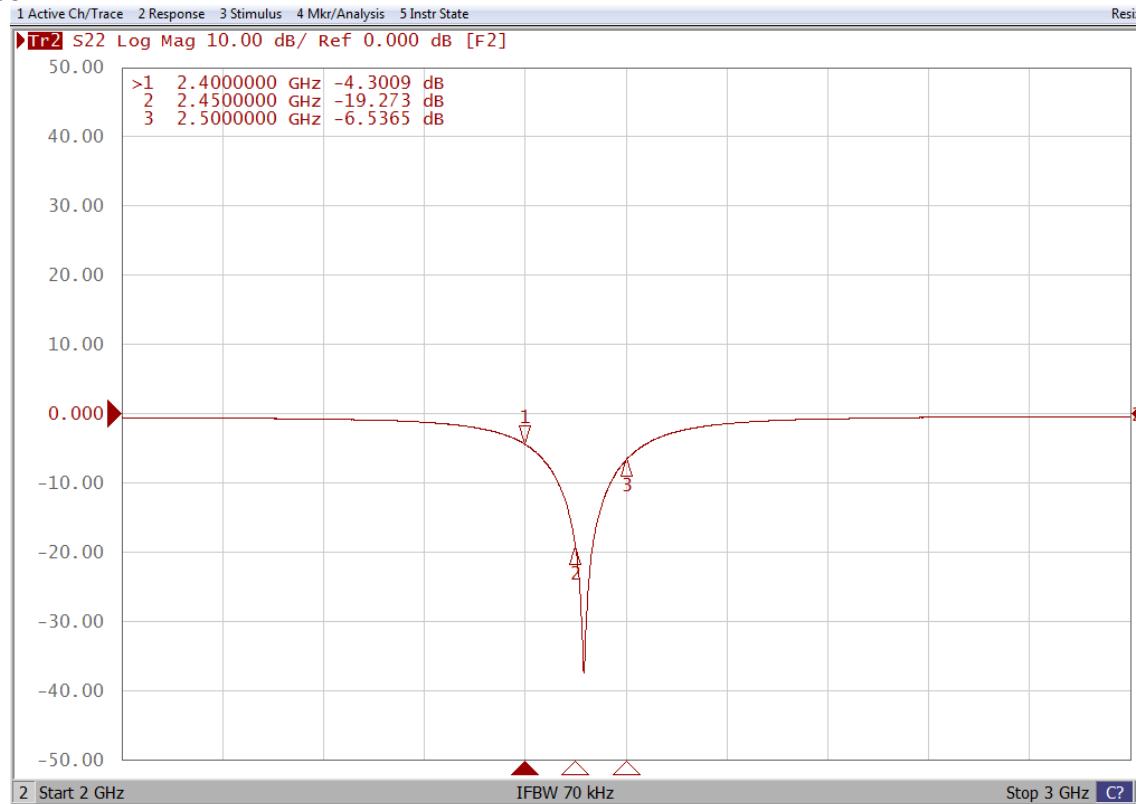
	對應料號
0Ω	WR02X000PTL
1.2 pF	RF03N1R2B500CT

*Matching values*



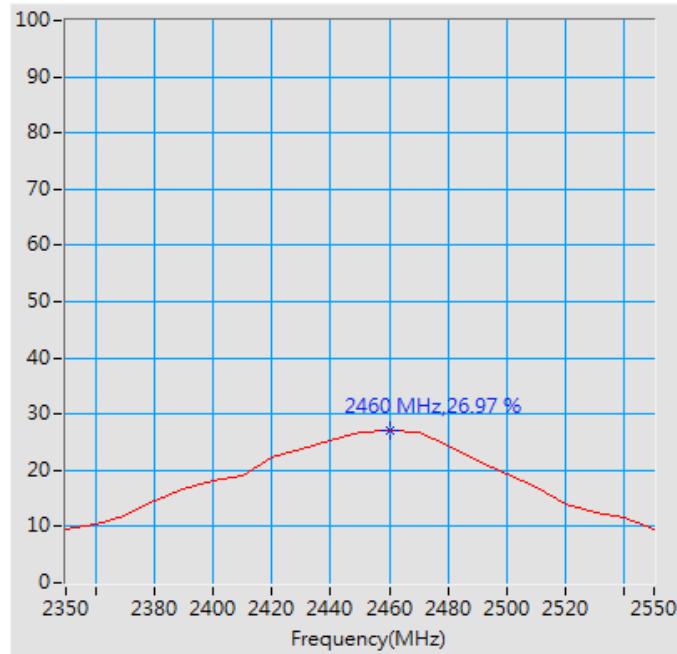
## 2. Antenna Characteristics

### 2.1 S-Parameter

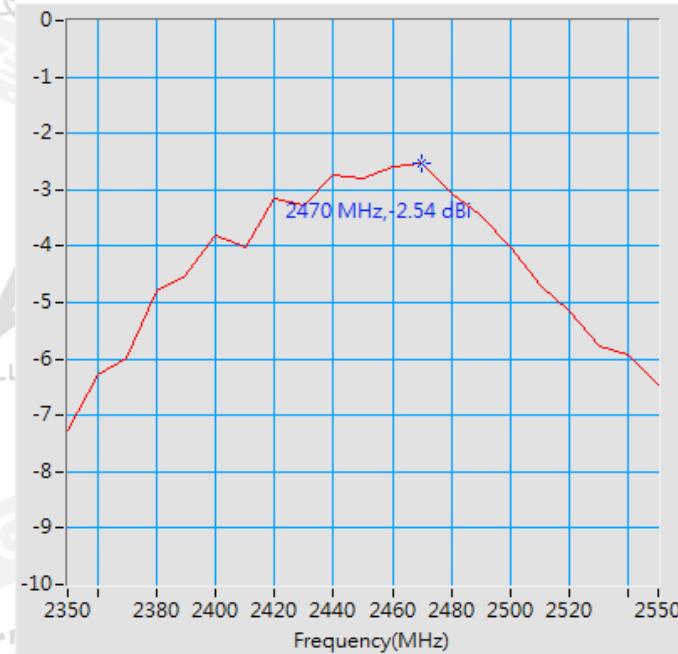


## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2460 MHz : 26.9 %



Maximum Peak Gain at 2470 MHz : -2.54 dBi

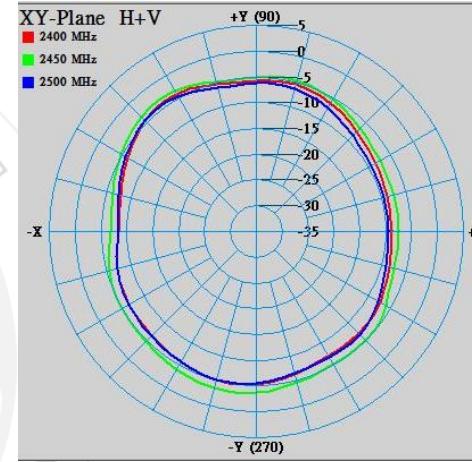
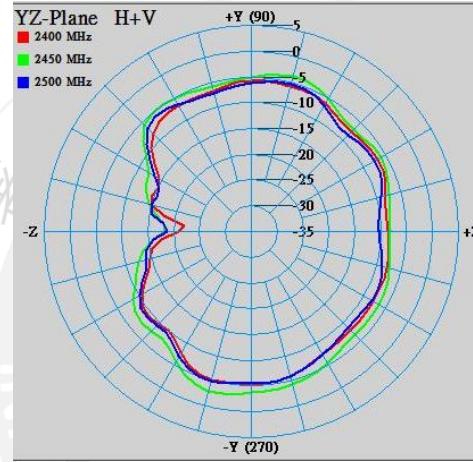
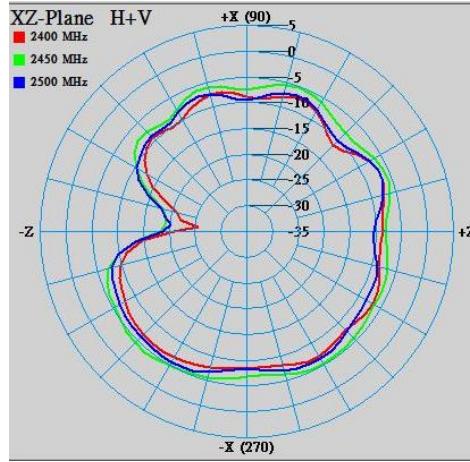
## 2. Antenna Characteristics

### 2.2 Antenna Efficiency and Peak Gain

RFANT3216120A3T		
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)
2400	19.0	-3.80
2450	26.6	-2.80
2500	19.2	-4.02

## 2. Antenna Characteristics

### 2.3 2D Radiation Patterns

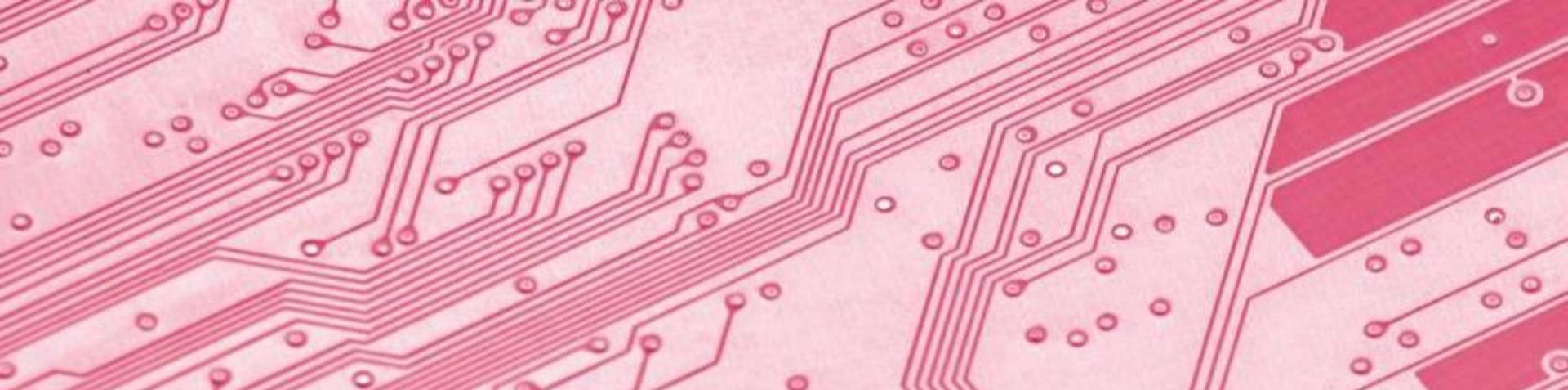


	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-6.48	-8.55	-5.25	-7.78	-4.11	-6.52
2450	-4.33	-6.79	-2.91	-6.37	-3.30	-5.22
2500	-5.76	-8.12	-4.98	-7.89	-4.40	-6.77

### 3. Summary

- 測試數據僅為模擬機構環境，須以實際應用為主。
- The performance of antennas is shown in table
- Antenna Type: Chip Antenna
- Antenna Dimension: 3.2x1.6x1.2mm

RFANT3216120A3T	
<b>Maximum Efficiency (%)</b>	<b>26.9</b>
<b>Maximum Gain (dBi)</b>	<b>-2.54</b>



# Title for Image (above image could be replaced)

## Content Details

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# Thank you

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