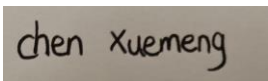


# AUT Report

Product Model: EAP772

Manufacturer: TP-LINK CORPORATION PTE. LTD.

Test Date: 2024.04.09

Tested By: Chen Xuemeng 

TP-LINK CORPORATION PTE. LTD.  
7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987

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# 1. Antenna Distribution

EAP772

## 2. Electrical Characteristics

Ant1	
Frequency	2400~2500 & 5150~5895MHz
Impedance	50Ohm
Antenna Type	PIFA
Antenna Gain	3.00dBi@2400~2500MHz 3.00dBi@5150~5250MHz 2.90dBi@5250~5350MHz 2.80dBi@5470~5725MHz 2.80dBi@5725~5895MHz
Radiation pattern	Omni-Directional
P/N	6035500202

Ant2	
Frequency	2400~2500 & 5150~5895MHz
Impedance	50Ohm
Antenna Type	PIFA
Antenna Gain	3.00dBi@2400~2500MHz

	2.80dBi@5150~5250MHz 3.00dBi@5250~5350MHz 2.60dBi@5470~5725MHz 2.40dBi@5725~5895MHz
<b>Radiation pattern</b>	Omni-Directional
<b>P/N</b>	6035500202

Ant3	
<b>Frequency</b>	5925~7125MHz
<b>Impedance</b>	50Ohm
<b>Antenna Type</b>	PIFA
<b>Antenna Gain</b>	3.00dBi@5925~6425MHz 2.90dBi@6425~6525MHz 2.90dBi@6525~6875MHz 2.70dBi@6875~7125MHz
<b>Radiation pattern</b>	Omni-Directional
<b>P/N</b>	6035500203

Ant4	
<b>Frequency</b>	5925~7125MHz
<b>Impedance</b>	50Ohm
<b>Antenna Type</b>	PIFA
<b>Antenna Gain</b>	3.00dBi@5925~6425MHz 2.90dBi@6425~6525MHz 2.90dBi@6525~6875MHz 2.70dBi@6875~7125MHz
<b>Radiation pattern</b>	Omni-Directional
<b>P/N</b>	6035500203

## 3. Gain and Radiation Pattern

### 3.1 Measurement Procedure

This measurement experiment adopted an antenna near-field measurement system, and the diagram of the measurement system was shown in Figure 3-1. The excitation signal was generated by the Keysight E5071C (300kHz-20GHz). Under the control of the central computer, the probe rotated in the  $\theta$  direction, and the EUT rotated in the  $\phi$  direction with the turntable. The probe sampling frame received and collected signals in the near-field range of the EUT. The software system which was controlled by the central computer completed the processing, output and display of the test data.



GTS MaxSign100 Software	V2.1	GTS(General Test System)	/	/	/
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## 3.2 Test Setup

The test setup was shown in Figure 3-3, 3-4:

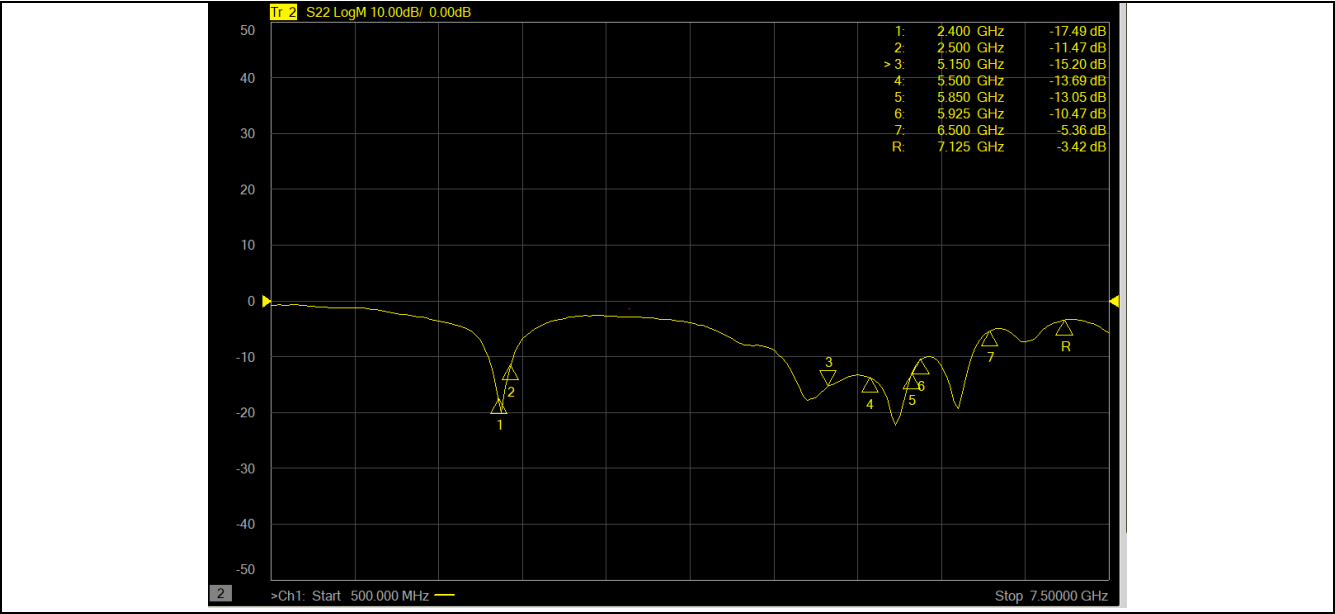


Figure 3-3

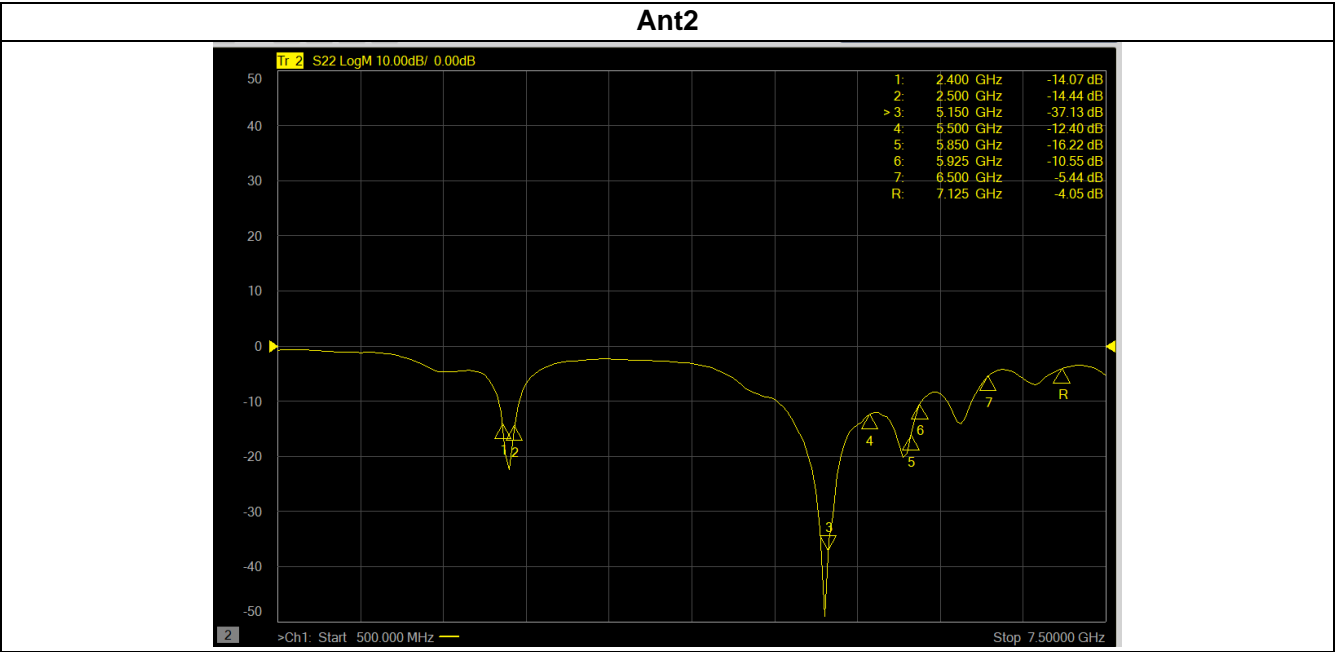
Figure 3-4

## 3.3 S Parameter Test Data

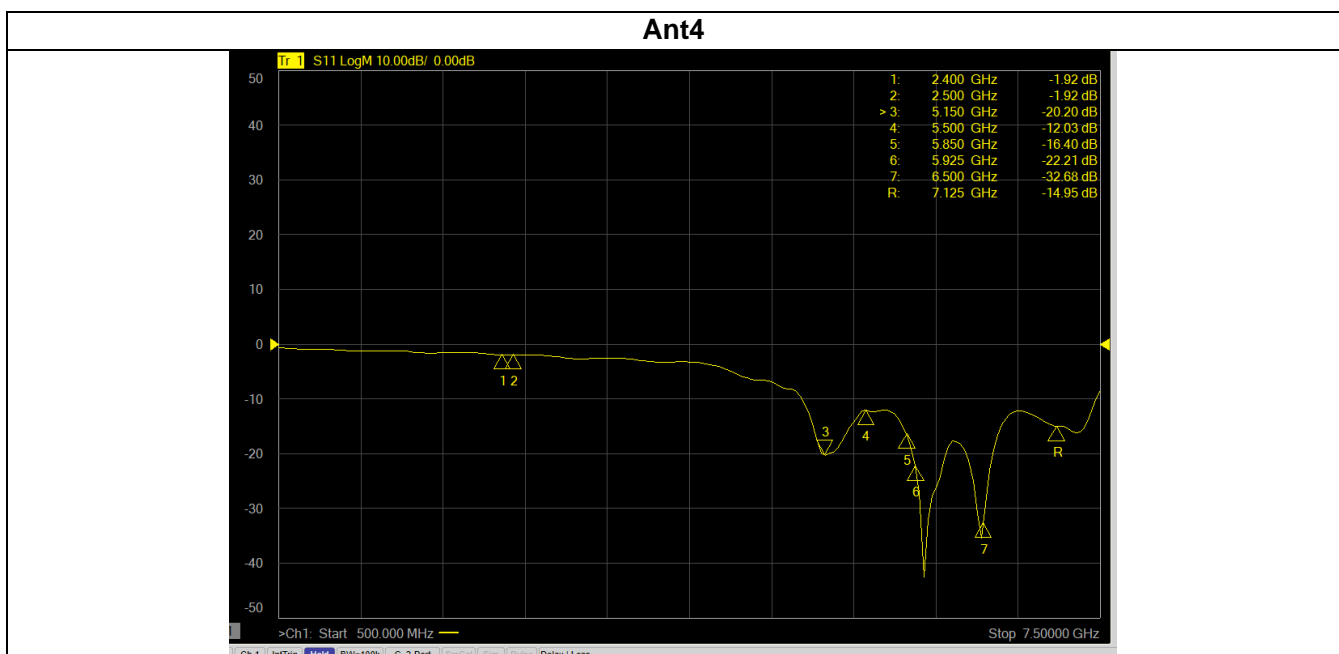
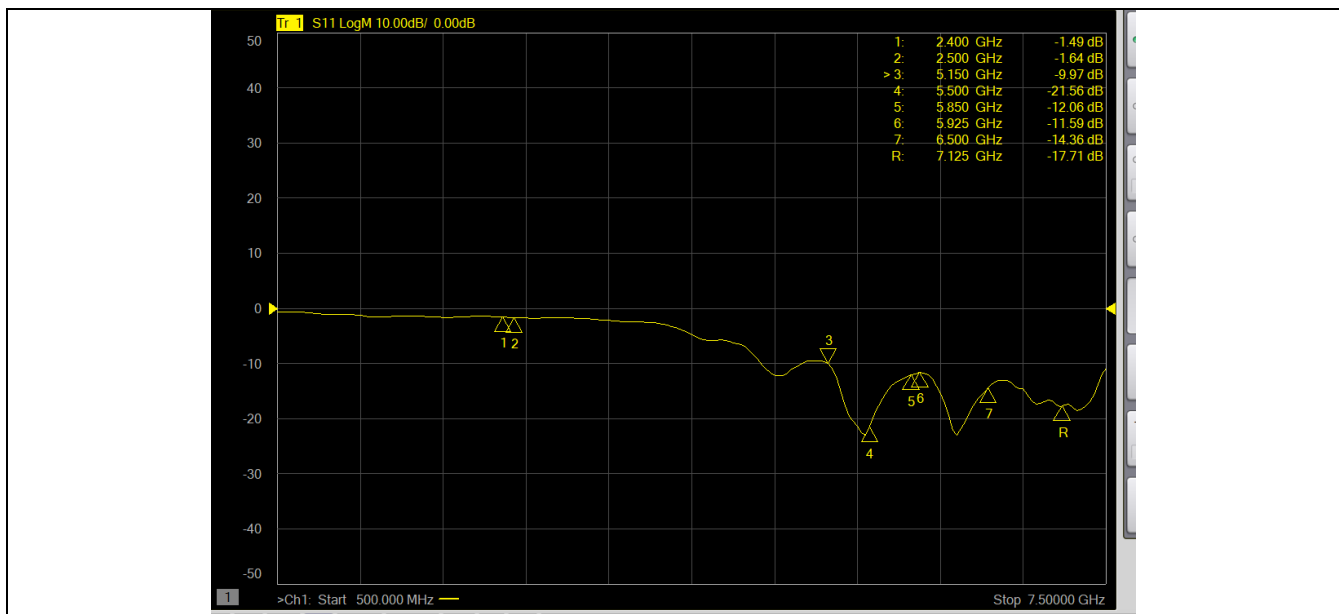
Ant1
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Ant2



Ant3



### 3.4 Antenna Peak Gain

Frequency(GHz)	2.45	5.2	5.3	5.6	5.8
Ant1 MaxGain(dBi)	3.00	3.00	2.90	2.80	2.80
Ant2 MaxGain(dBi)	3.00	2.80	3.00	2.60	2.40
Ant1 Polarization/ $\Phi$ (°)/ $\theta$ (°)	Theta/60/45	Theta/225/45	Theta/210/45	Theta/240/45	Theta/210/45
Ant2 Polarization/ $\Phi$ (°)/ $\theta$ (°)	Theta/60/60	Theta/75/45	Theta/60/45	Theta/90/60	Theta/75/60
Max Gain(dBi)	3.00	3.00	3.00	2.80	2.80

Frequency(GHz)	5.925	6.175	6.475	6.725	7.025
Ant3 MaxGain(dBi)	3.00	3.00	2.90	2.90	2.70

<b>Ant4 MaxGain(dBi)</b>	3.00	3.00	2.90	2.90	2.70
<b>Ant3 Polarization/<math>\Phi</math> (°)/<math>\theta</math> (°)</b>	Theta/345/60	Theta/345/60	Theta/225/60	Theta/345/45	Theta/330/45
<b>Ant4 Polarization/<math>\Phi</math> (°)/<math>\theta</math> (°)</b>	Theta/120/60	Theta/120/60	Theta/135/60	Theta/45/45	Theta/60/45
<b>Max Gain(dBi)</b>	3.00	3.00	2.90	2.90	2.70

### 3.5 Antenna Radiation Pattern

