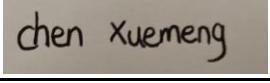


# AUT Report

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

# **Index**

<b>1. Antenna Distribution.....</b>	<b>3</b>
<b>2. Electrical Characteristics .....</b>	<b>3</b>
<b>3. Gain and Radiation Pattern .....</b>	<b>4</b>
3.1 Measurement Procedure .....	4
3.2 Test Setup.....	5
3.3 S Parameter Test Data.....	6
3.4 Antenna Peak Gain .....	6
3.5 Antenna Radiation Pattern.....	7

## 1. Antenna Distribution

EAP772

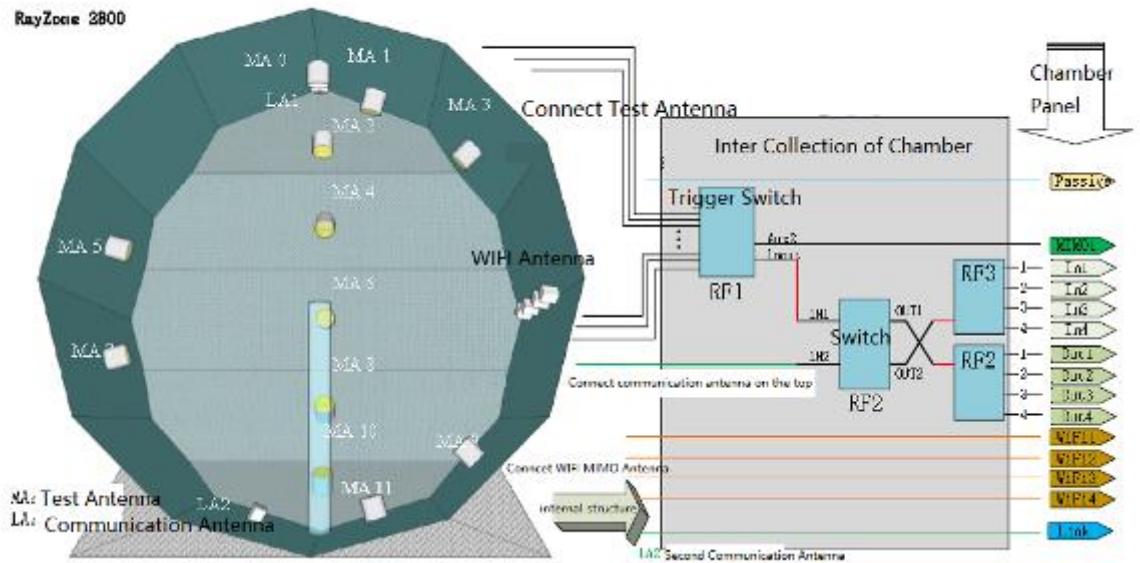
## 2. Electrical Characteristics

BLE Ant	
Frequency	2400~2500 MHz
Impedance	50Ohm
Antenna Type	PIFA
Antenna Gain	3.00dBi@2400~2500MHz
Radiation pattern	Omni-Directional
P/N	6035500202

### 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  $\varphi$  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.



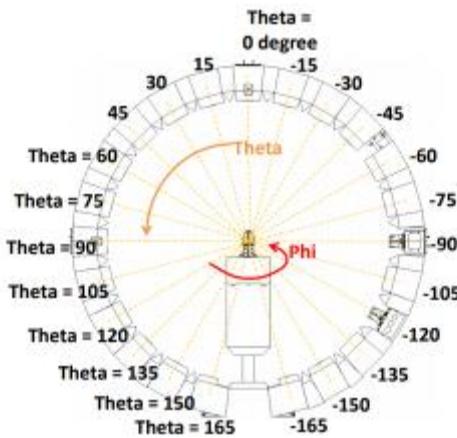


Figure 3-2

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured.

Test Equipment listed below:

Equipments	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS(General Test System)	MY53470435	12months	2024/01/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2024/03/13
GTS MaxSign100 Software	V2.1	GTS(General Test System)	/	/	/

### 3.2 Test Setup

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

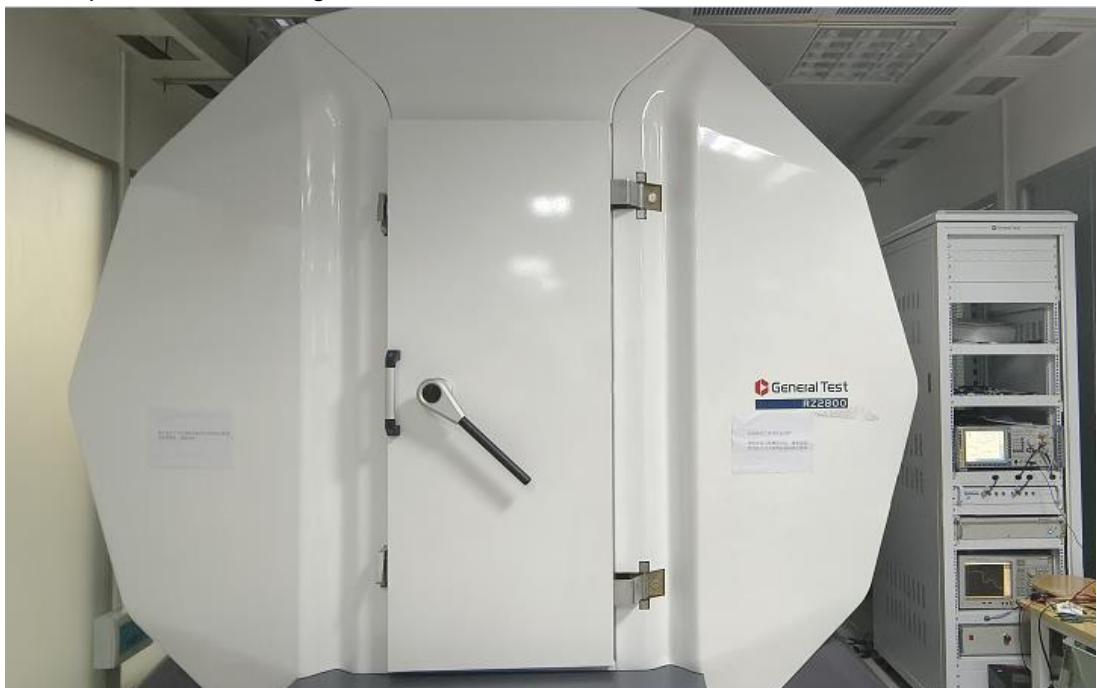


Figure 3-3

Figure 3-4

### 3.3 S Parameter Test Data



### 3.4 Antenna Peak Gain

Frequency(GHz)	2.45
BLE Ant MaxGain(dBi)	3.00
BLE Polarization/Φ (°) / θ (°)	Theta/90/60
Max Gain(dBi)	3.00

### 3.5 Antenna Radiation Pattern

