

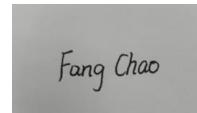
AUT Report

Product Model: Tapo C460

Manufacturer: TP-Link Systems Inc.

Test Date: 2024.12.23

Tested By: Fang Chao



Fang Chao

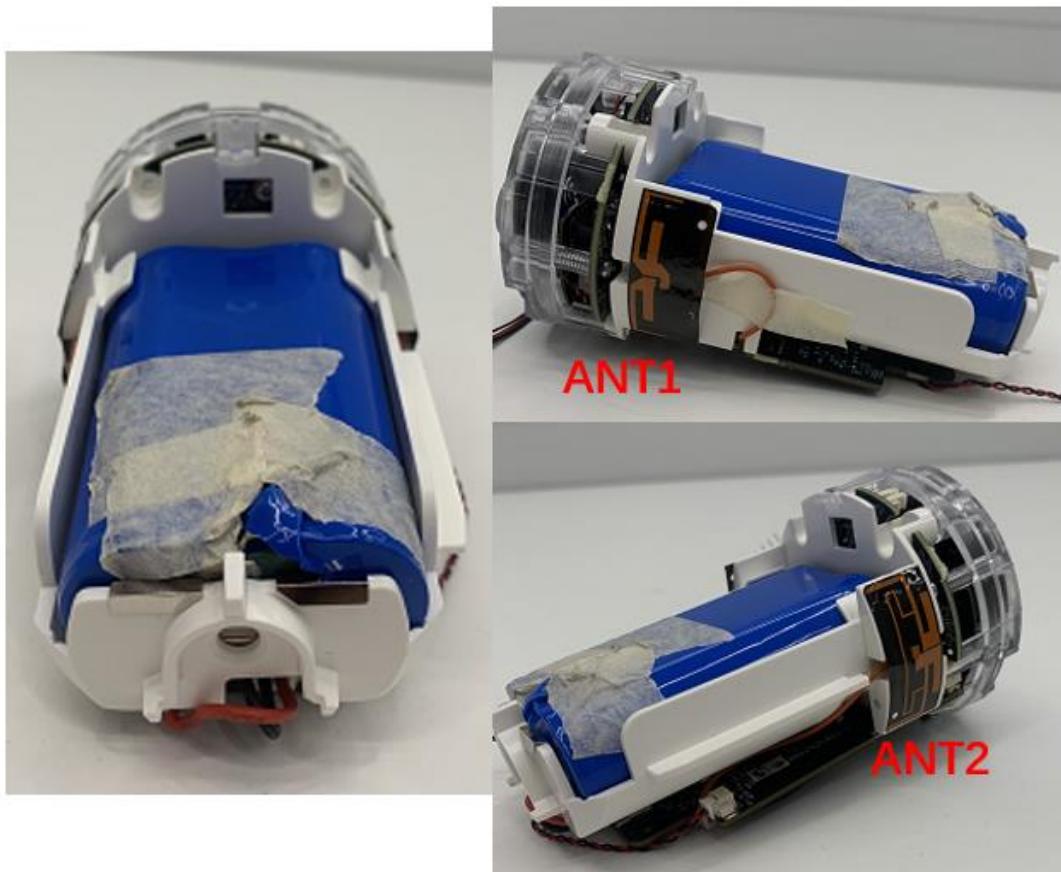
TP-Link Systems Inc.
10 Mauchly, Irvine, CA 92618

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1. Antenna Distribution

Tapo C460



2. Electrical Characteristics

Ant1	
Frequency	2400~2500MHz&5150~5850MHz
Impedance	50Ohm
Antenna Type	dipole
Antenna Gain	0dBi
Radiation pattern	Omni-Directional

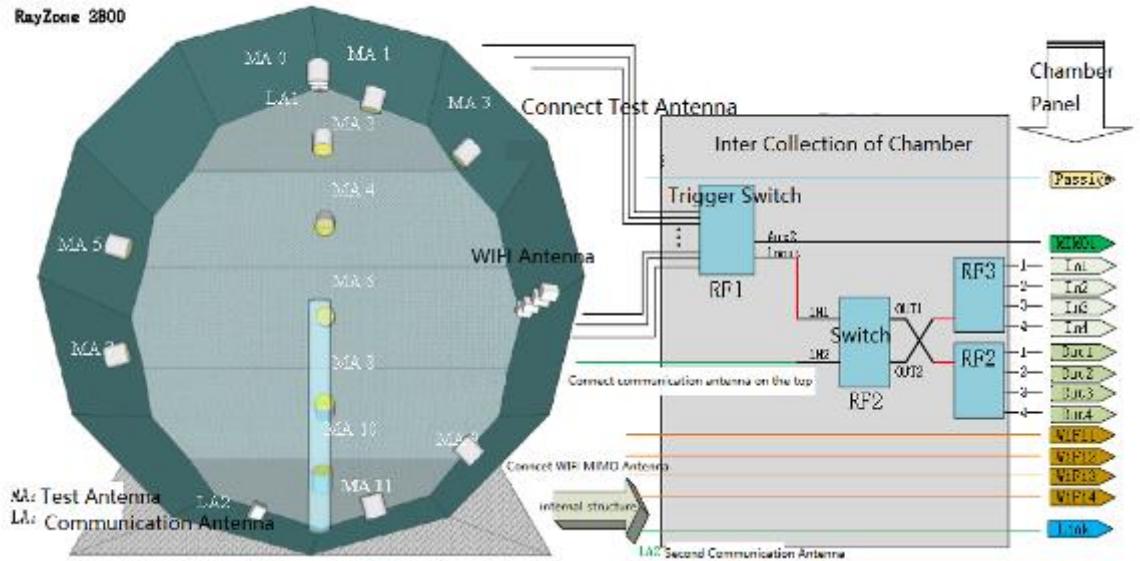
Ant2	
Frequency	2400~2500MHz&5150~5850MHz
Impedance	50Ohm
Antenna Type	dipole
Antenna Gain	0dBi
Radiation pattern	Omni-Directional

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 θ direction, and the EUT rotated in the φ 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.



Equipments	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS(General Test System)	MY5347043 5	12months	2024/01/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/03/13
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

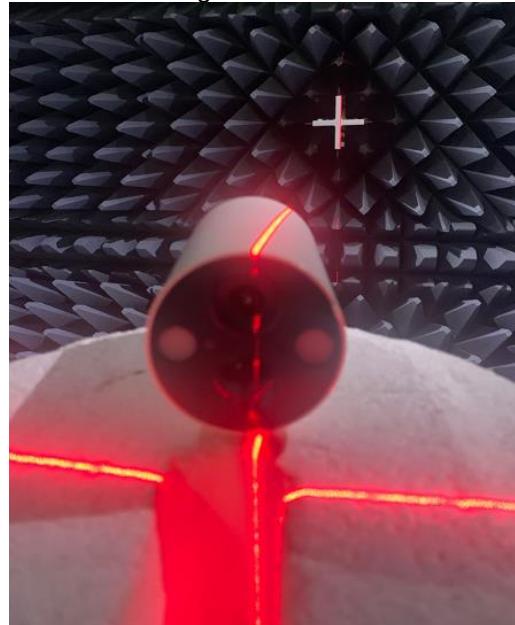
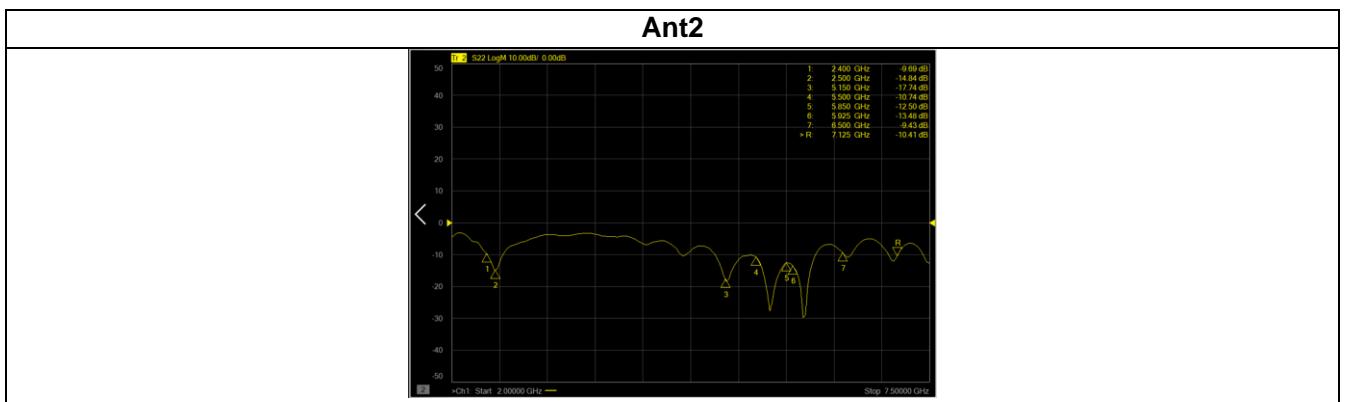
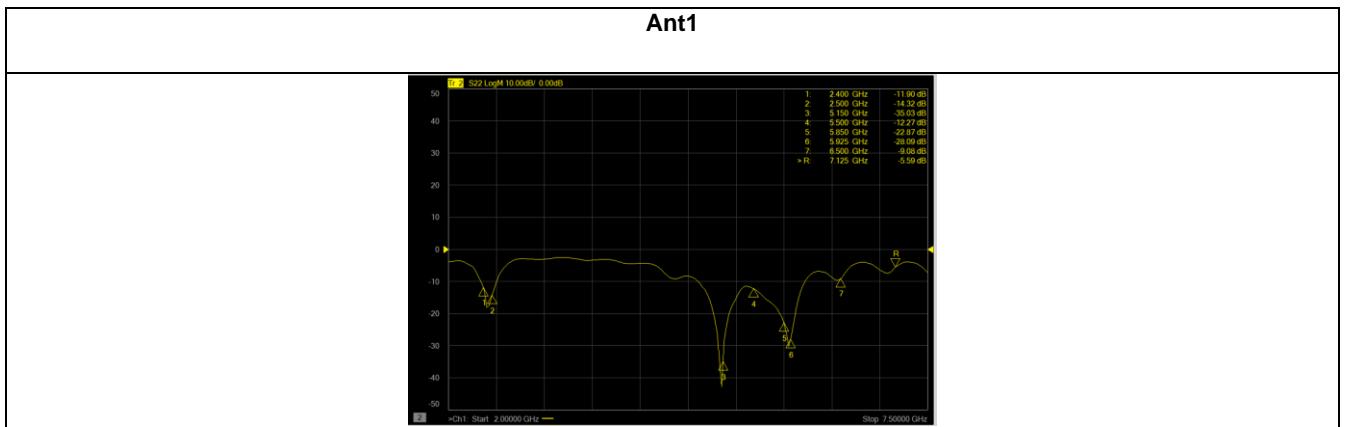


Figure 3-4

3.3 S Parameter Test Data



3.4 Antenna Peak Gain

Frequency(GHz)	2.40	2.45	5.25	5.75
Ant1 MaxGain(dBi)	0.00	-0.26	0.00	-0.11
Ant2 MaxGain(dBi)	-0.15	0.00	-0.03	0.00
Ant1 Polarization/Φ (°) / θ (°)	Theta/90/90	Theta/90/90	Theta/120/90	Theta/120/90
Ant2 Polarization/Φ (°) / θ (°)	Theta/120/110	Theta/120/110	Theta/90/90	Theta/90/90
Max Gain(dBi)	0.00	0.00	0.00	0.00

3.5 Antenna Radiation Pattern



