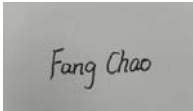


AUT Report

Product Model: Tapo C520WS

Manufacturer: TP-Link Systems Inc.

Test Date: 2024.8.14

Tested By: Fang Chao 

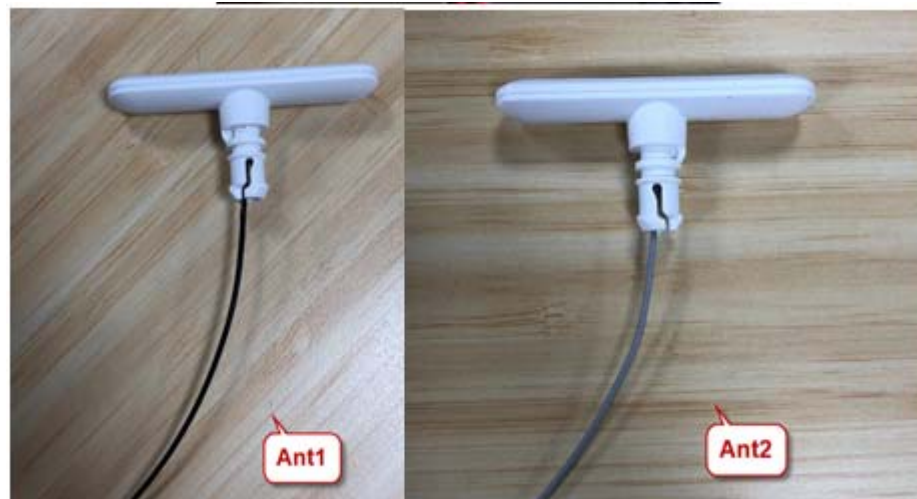
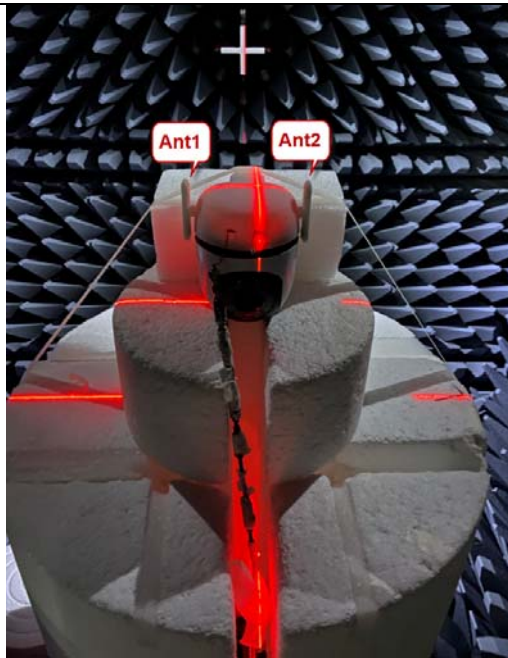
TP-Link Systems Inc.
10 Mauchly, Irvine, CA 92618

Index

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

1. Antenna Distribution

Tapo C520WS 2.0



2. Electrical Characteristics

Ant1	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	dipole
Antenna Gain	0.5dBi
Radiation pattern	Omni-Directional

Ant2	
Frequency	2400~2500MHz
Impedance	50Ohm
Antenna Type	dipole
Antenna Gain	0.5dBi
Radiation pattern	Omni-Directional

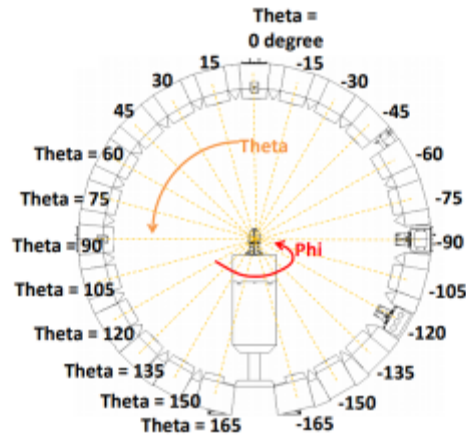


Figure 3-2

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)	MY5347043 5	12months	2024/09/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2024/10/13
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

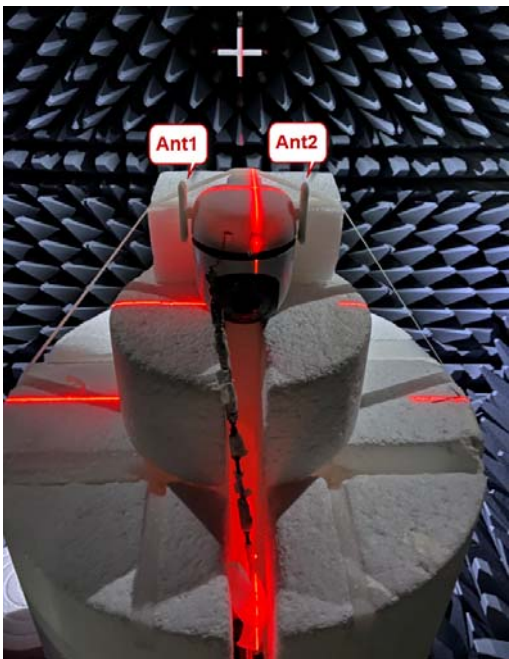
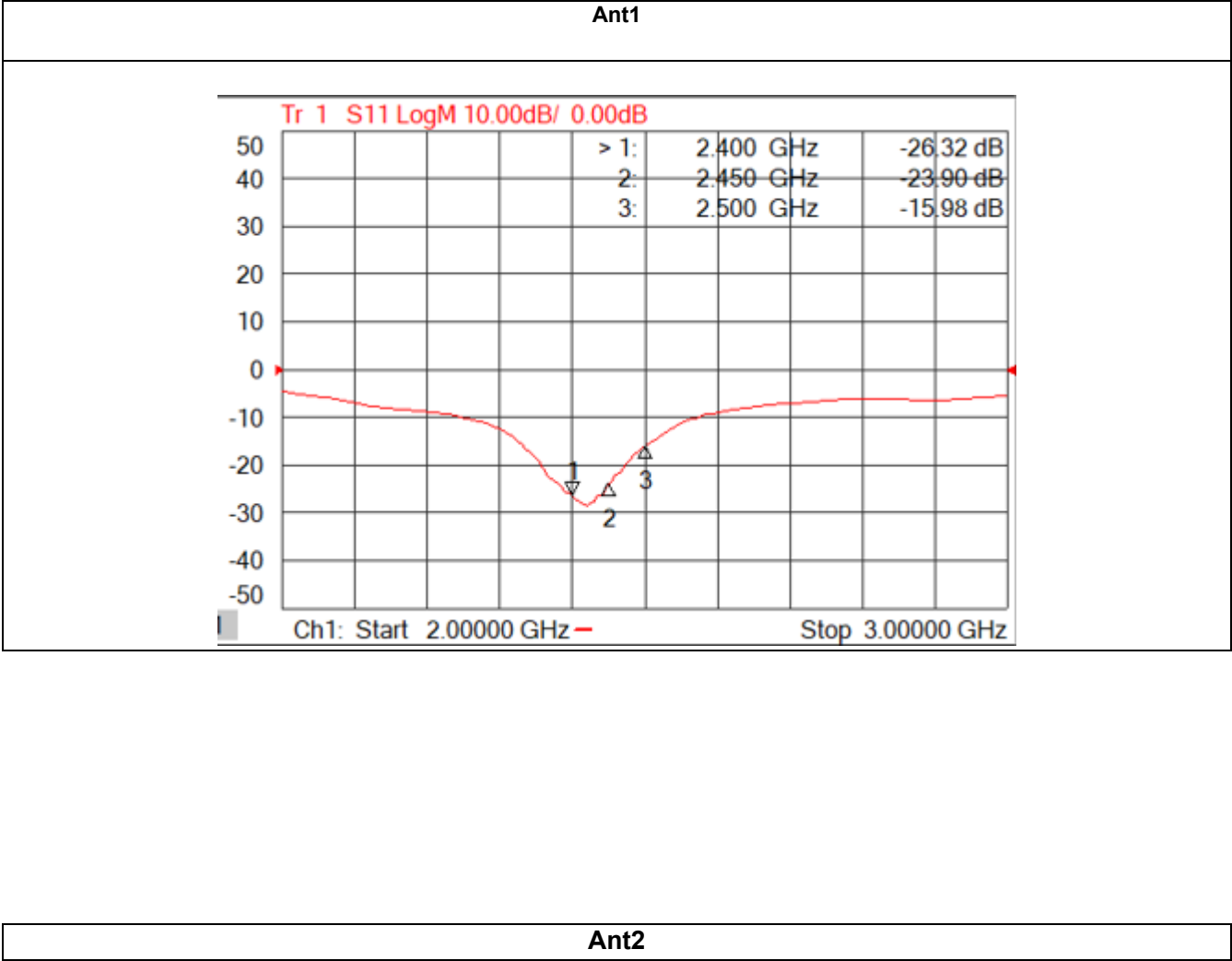
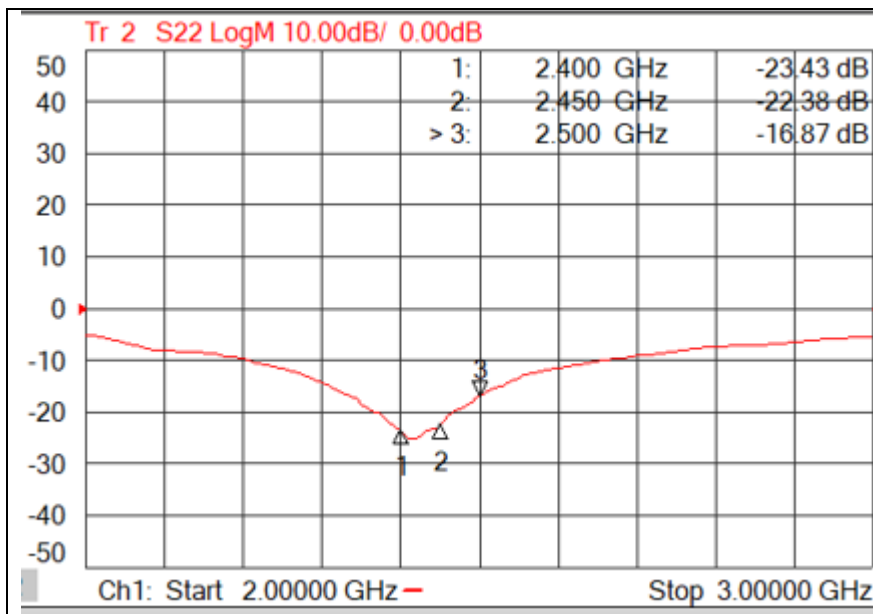


Figure 3-4

3.3 S Parameter Test Data

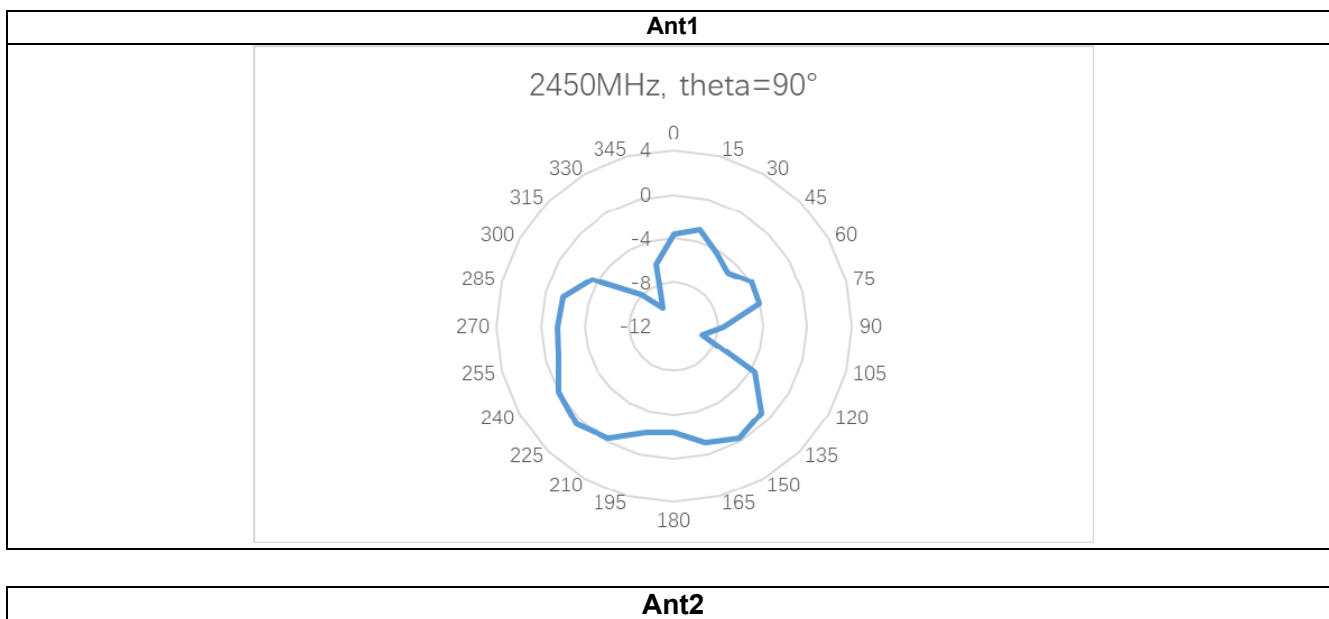




3.4 Antenna Peak Gain

Frequency(GHz)	2.45GHz 2400~2500MHz
Ant1 MaxGain(dBi)	0.5
Ant2 MaxGain(dBi)	0.5
Ant1 Polarization/ Φ (°) / θ (°)	Theta/90/90
Ant2 Polarization/ Φ (°) / θ (°)	Theta/120/110
Max Gain(dBi)	0.50

3.5 Antenna Radiation Pattern



2450MHz, theta=90°

