
Antenna Approval Sheet

For

K901-220-V1.0 Project

Customer		Project	K901-220-V1.0
Band	WiFi 2.4GHZ		
ZC PN	HA009-CA-93		
Version	R:A	Data	2022-08-18

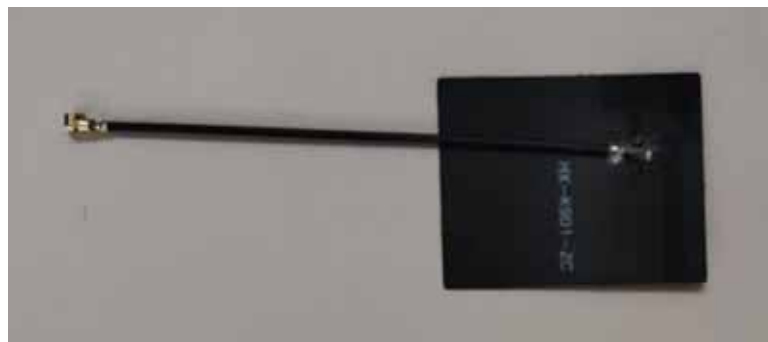
Issued by	
Checked By	
Confirmed By	
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1.Summary of the DUT

K901-220-V1.0 Picture



Antenna Picture



2. Electrical Specification:

Antenna types	Built-in wifi 2.4GHZ antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Gain	1 dBi REF
Efficiency	>35 %
Antenna Material	FPC+coaxial cable
Connector Type	1.13 MHF-1-Plug



3. Test Condition

3.1	Test items	Test Equipment and Models	Remarks
1.Active test	1.TRP 2.TIS	1. 3D microwave darkroom (Satimo SG24) 2. Comprehensive test instrument(CMW500) 3. Agilent 8960 E5515C	
2.Passive testing	1.S.W.R 2. Return Loss. 3. Radiation Pattern	1. Network analyzer (R&S ZVL6) 2. Network analyzer (HP 8753D)	

3.2 Matching Circuit The matching circuit was Default

3.3Antenna installation diagram:

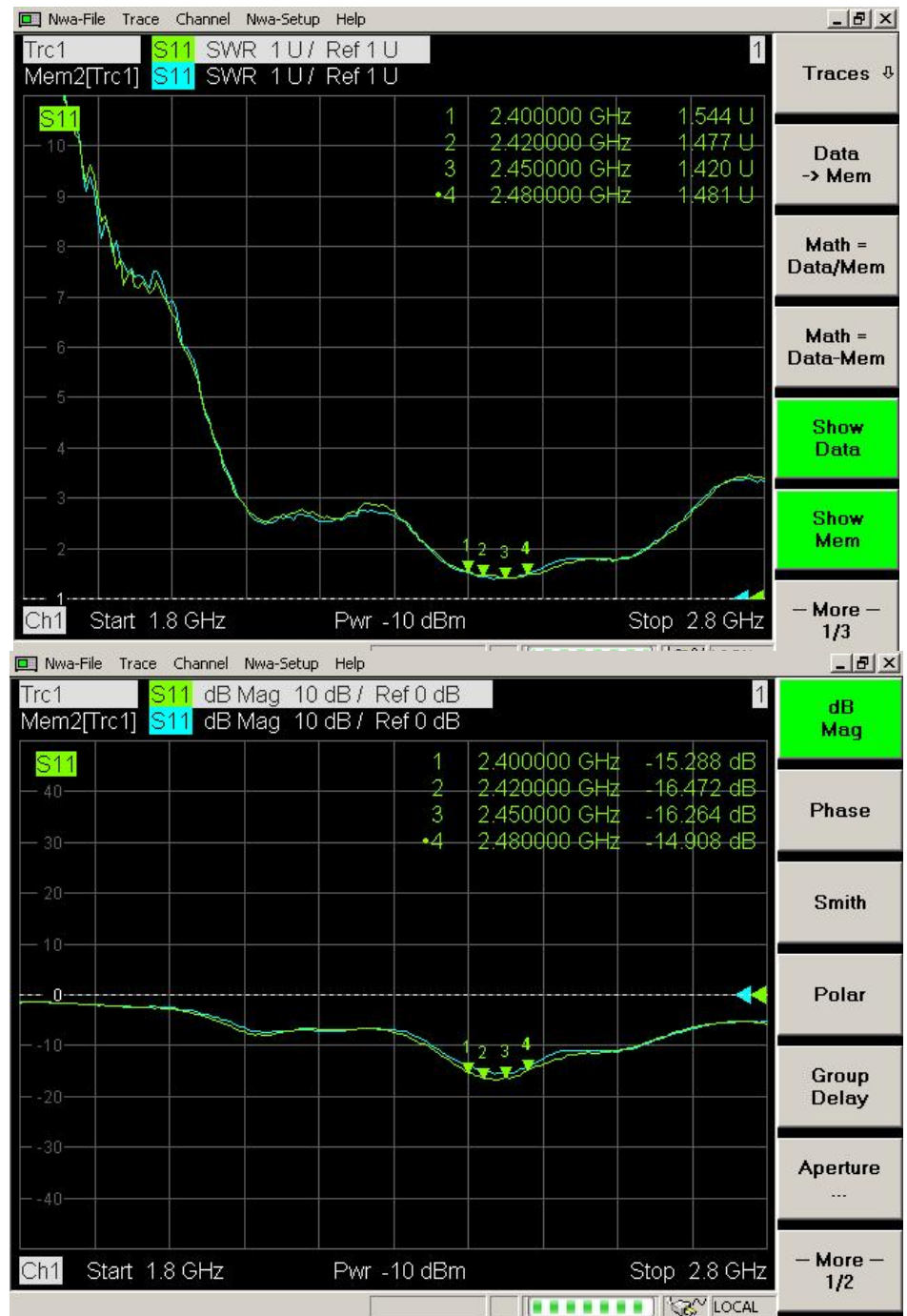


4.1 Active t test data

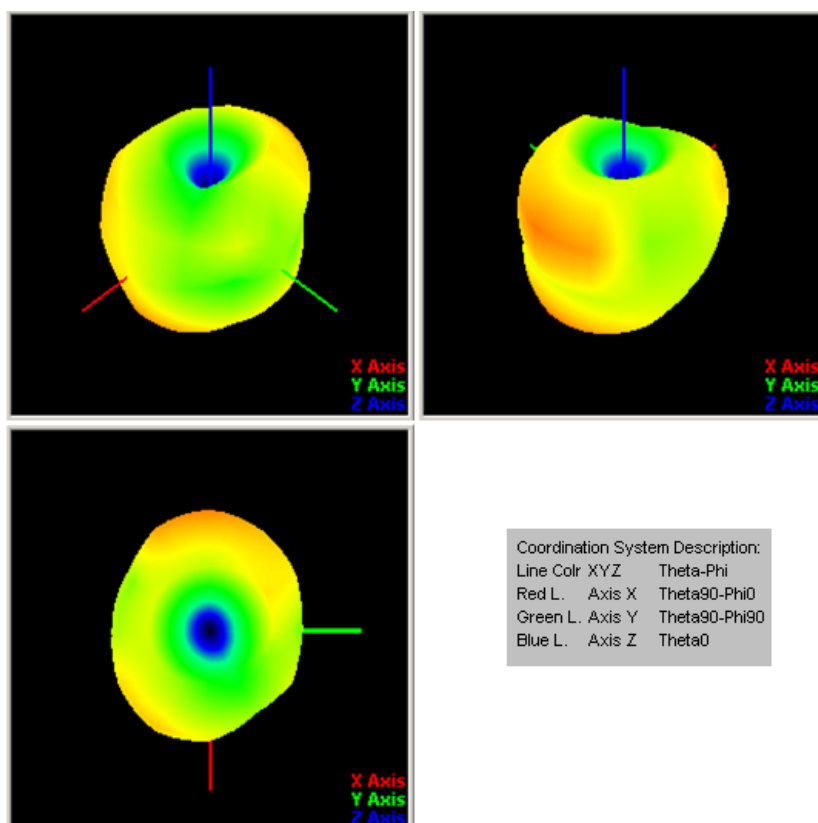
Item	Standard	Band	Channel	Frequency	Max power	Min sensitivity	TRP	TIS
1	WIFI (AP)	WIFI_B (11M)	1	2412	21.42	-81.11	18.32	-76.66
2	WIFI (AP)	WIFI_B (11M)	6	2437	21.84	-78.9	18.74	-75.72
3	WIFI (AP)	WIFI_B (11M)	11	2462	20.09	-77.95	17.09	-74.58

4.2 S Parameter

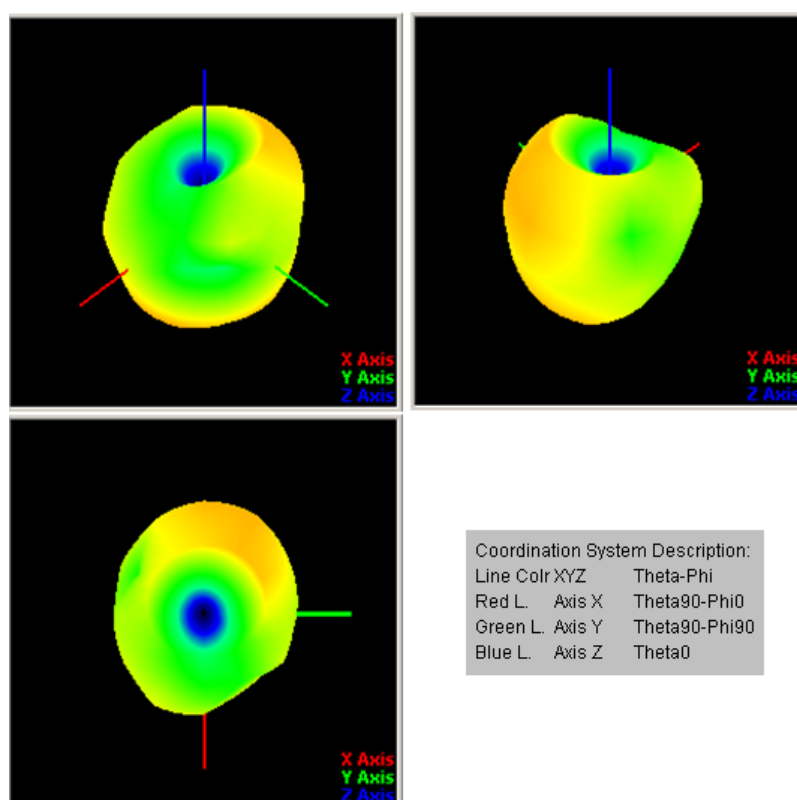
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-15.28	1.54
2450	-16.26	1.42
2500	-14.9	1.48



4.3 Antenna 3D Radiation Pattern



2400 MHZ



2500 MHZ

5. ME Drawing for the antenna

