



Antenna Approval Sheet

For **GZ5** Project

Customer	爱健	Project	GZ5
Band	WiFi 2.4G		
ZC PN	AC013-WA-94/AC013-WB-18		
Version	R:A	Data	2022-7-28

RF	
Checked By	
Confirmed By	
Cust Confirm	



1. Summary of the DUT

GZ5 Picture



Antenna Picture





2. Electrical Specification:

Antenna types	External 2.4GHZ WIFI antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Peak Gain	2.4GHZ 2.9 dbi
Efficiency	>40 %
Antenna Material	FPC+外壳+同轴线
Connector Type	1.13 MHF-1-Plug

3. Test Condition

3.1	测试项目	测试设备和型号	备注
1.有源测试	1.TRP 2.TIS	1. 3D microwave darkroom (Satimo SG24) 2. Comprehensive test instrument (CMW500) 3. Agilent 8960 E5515C	
2.无源测试	1. Antenna Gain 2. S.W.R 3. Return Loss 4. Radiation Pattern	1. Network analyzer (R&S ZVL6) 2. Network analyzer (HP 8753D)	

3.2 Matching Circuit The matching circuit was Default

4. RF Performance

4.1 Active test data

Item	Standard	Band	Channel	Frequency	最大功率	最小灵敏度	TRP	TIS
1	WIFI (AP)	WIFI_B (11M)	1	2412	23.87	-93.0 3	19.64	-88.21
2	WIFI (AP)	WIFI_B (11M)	6	2437	25.1	-92.93	20.37	-88.14
3	WIFI (AP)	WIFI_B (11M)	11	2462	26.56	-92.4	21.47	-87.85

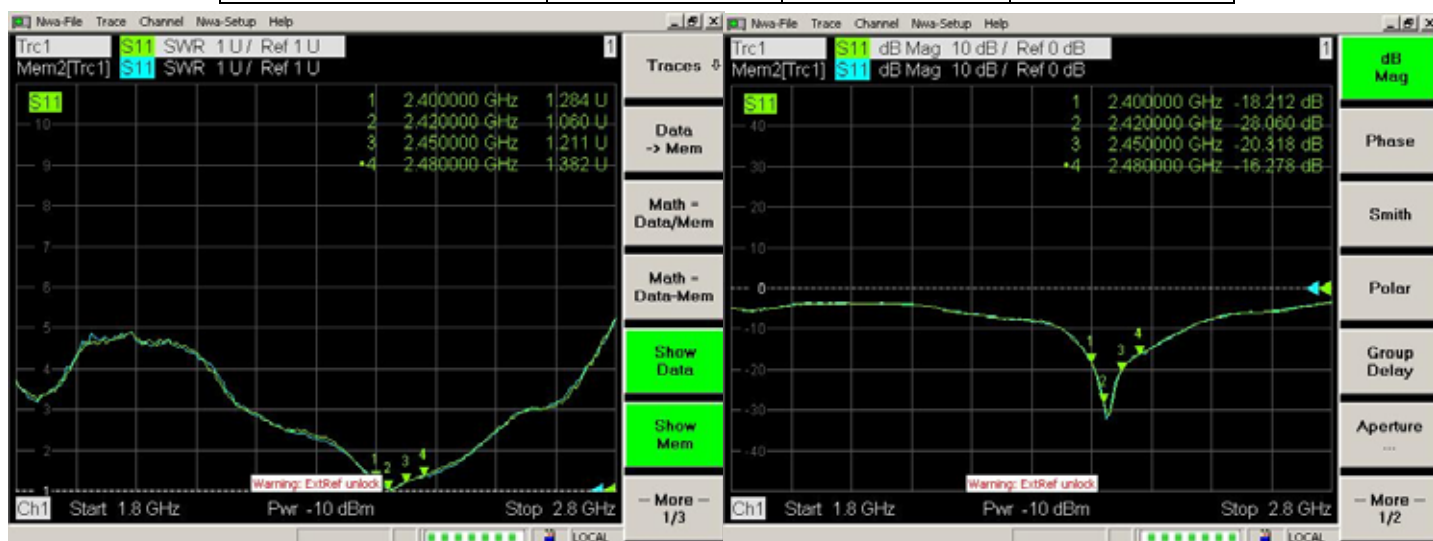


4.2 Passive parameters

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.67	1.8	2.13	2.56	2.53	2.85	2.88	2.45	1.99	1.98	1.95

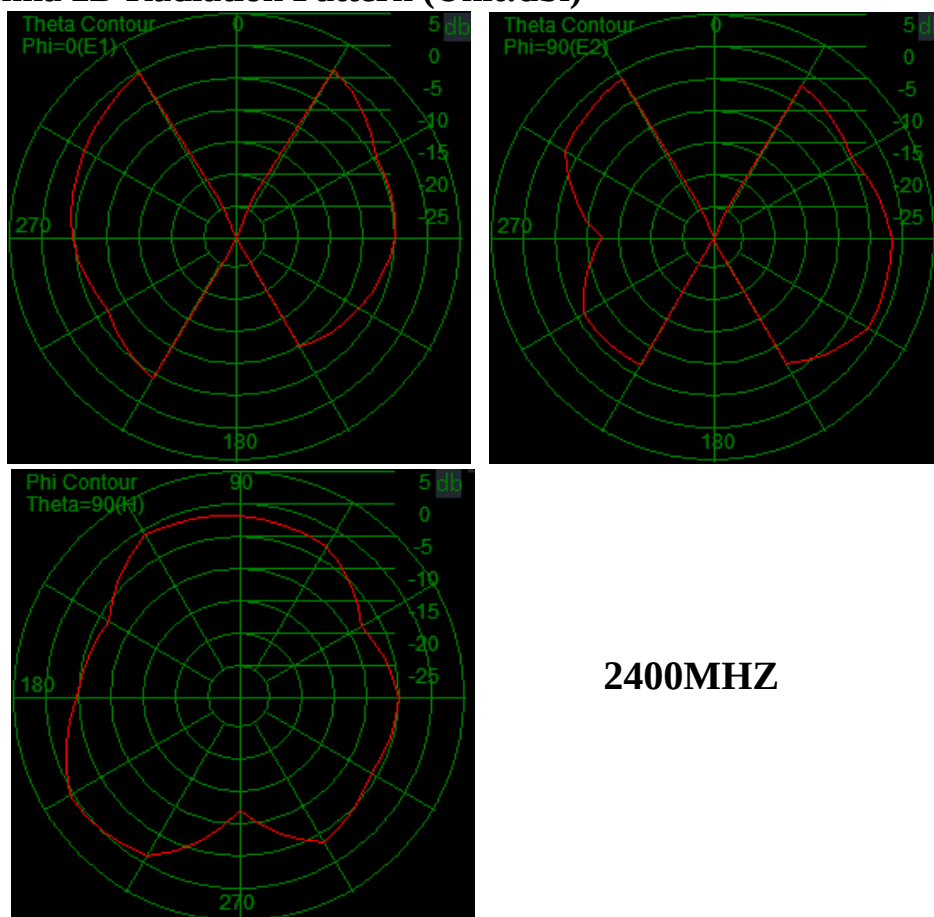
4.3 S Parameter

Frequency (MHz)	2400	2450	2480
Return Loss(dB)	-18.2	-20.3	-16.2
VSWR	1.28	1.21	1.38

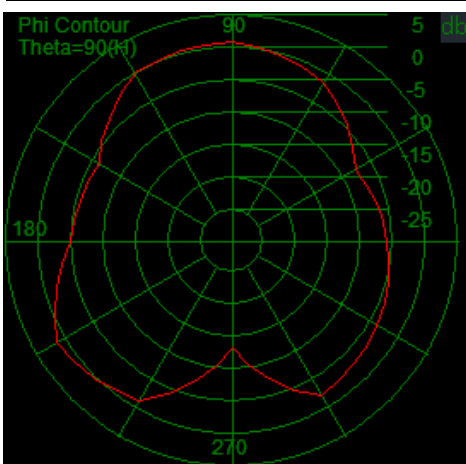
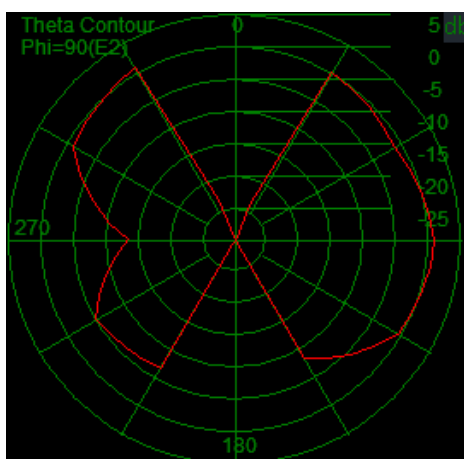
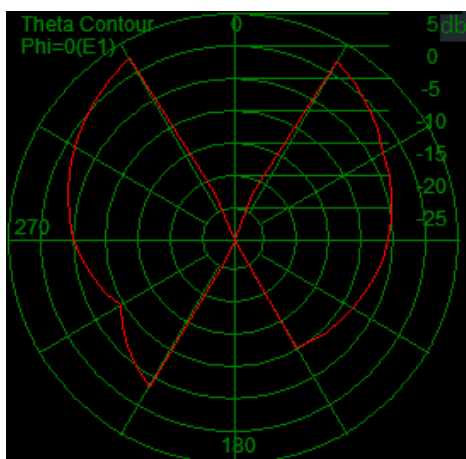


4.4 Radiation Pattern

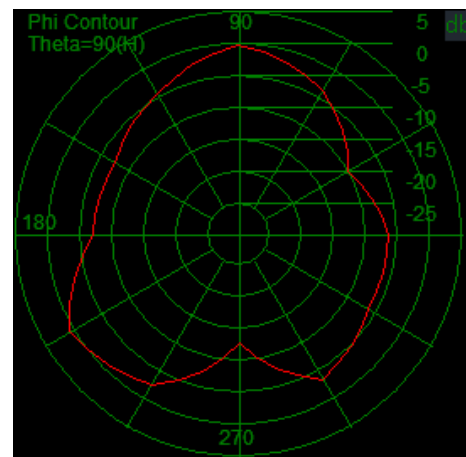
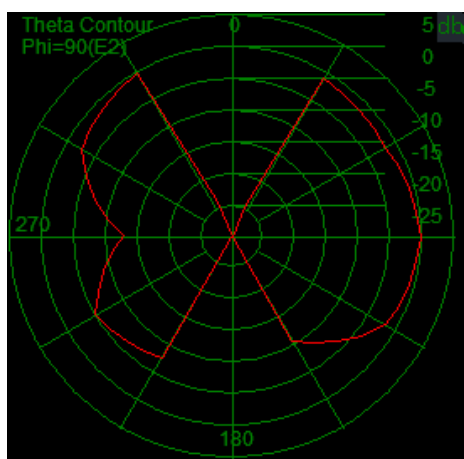
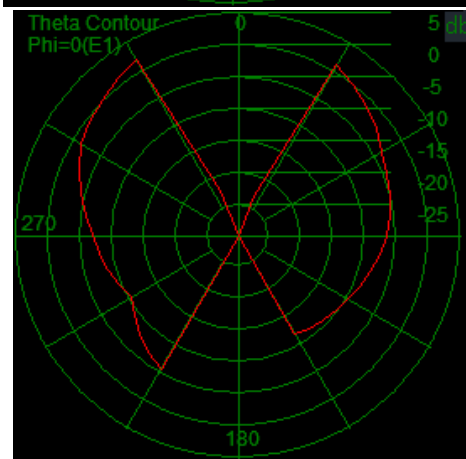
4.4.1 Antenna 2D Radiation Pattern (Unit:dbi)



2400MHZ



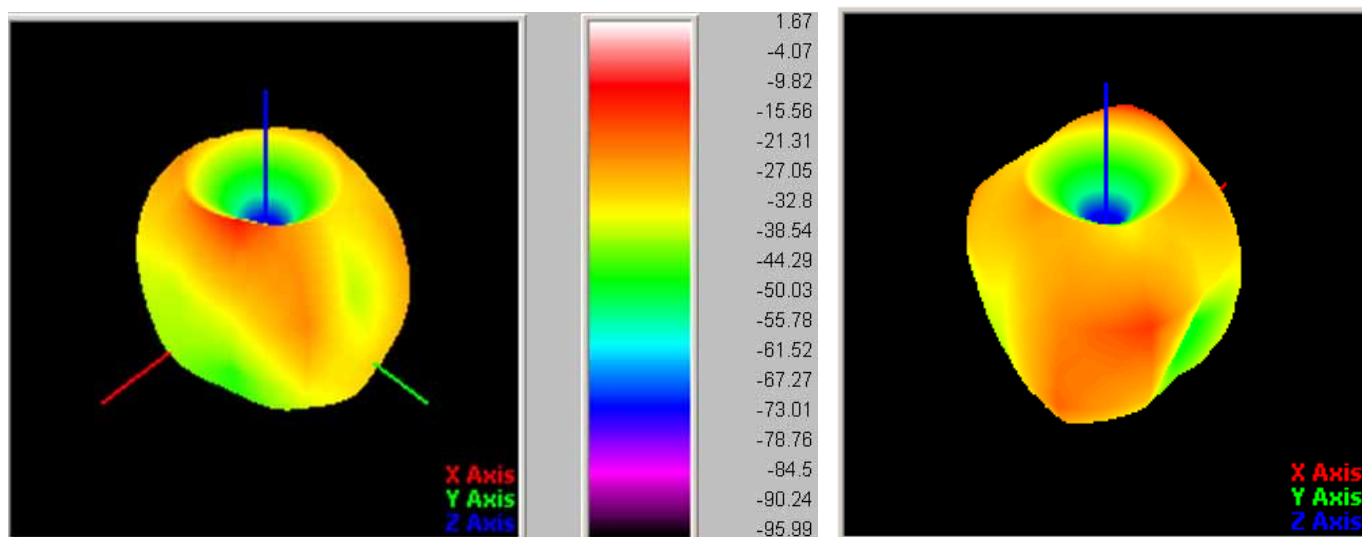
2460MHZ



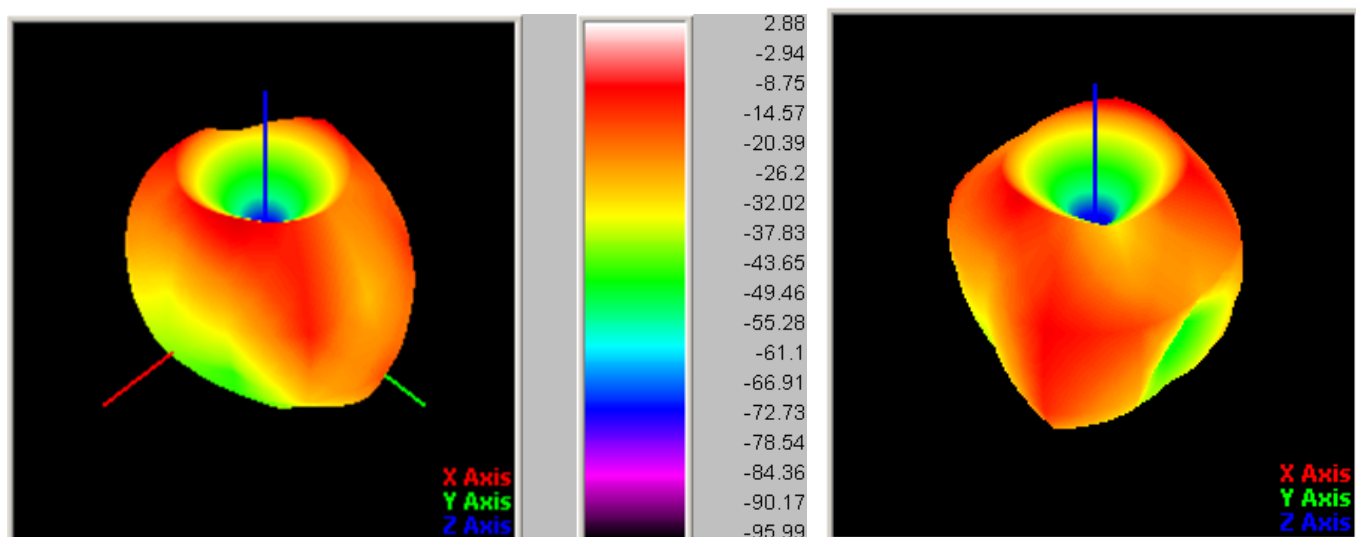
2500 MHZ



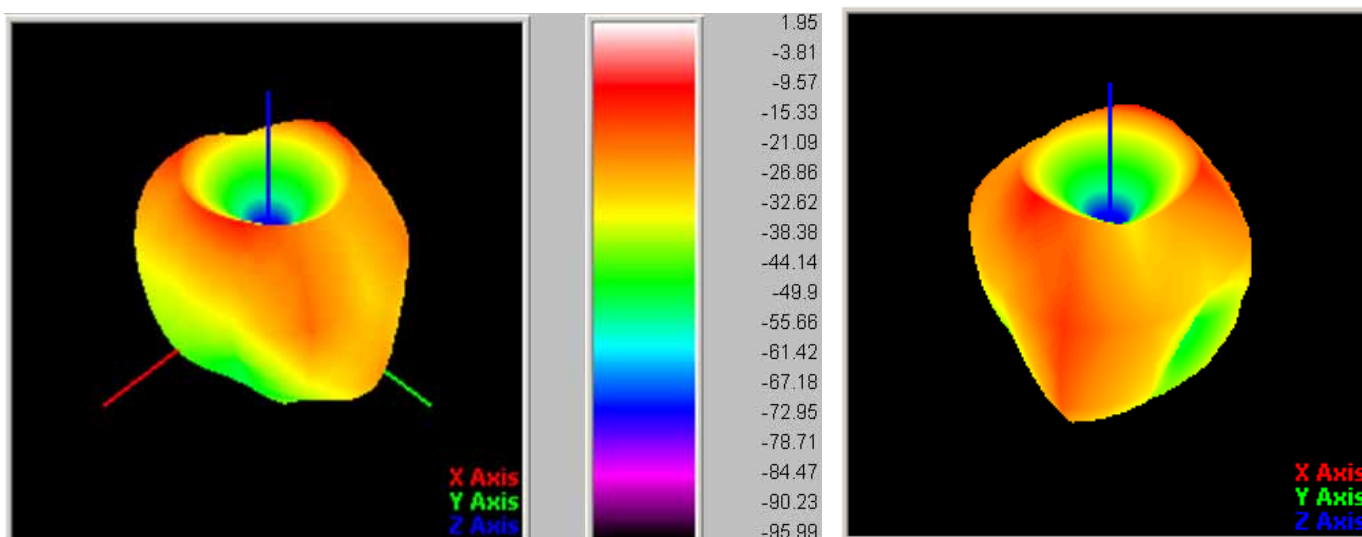
4.4.2 Antenna 3D Radiation Pattern (Unit:dbi)



Freq2400.00MHZ



Freq2460.00MHZ



Freq2500.00MHZ

4. ME Drawing for the antenna

