



Antenna Approval Sheet

For

HX230LMT Project

Customer	华芯智影	Project	HX230LMT
Band	WiFi 2.4GHZ		
ZC PN	HA026-CA-93		
Version	R:A	Data	2023-11-2

RF	
Checked By	
Confirmed By	
Cust Confirm	



1. Summary of the DUT

HX230LMT Picture



Antenna Picture



2. Electrical Specification:

Antenna types	Built-in wifi 2.4GHZ antenna
Frequency	2400-2500 MHz
Impedance	50 Ω
VSWR	< 2.0
Peak Gain	0.84 dbi
Antenna Material	FPC+Coaxial line
Connector Type	Soldering

3. Test Condition

3.1	Test item	Test equipment and model	remark
Passive testing	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

3.3 Antenna installation diagram:



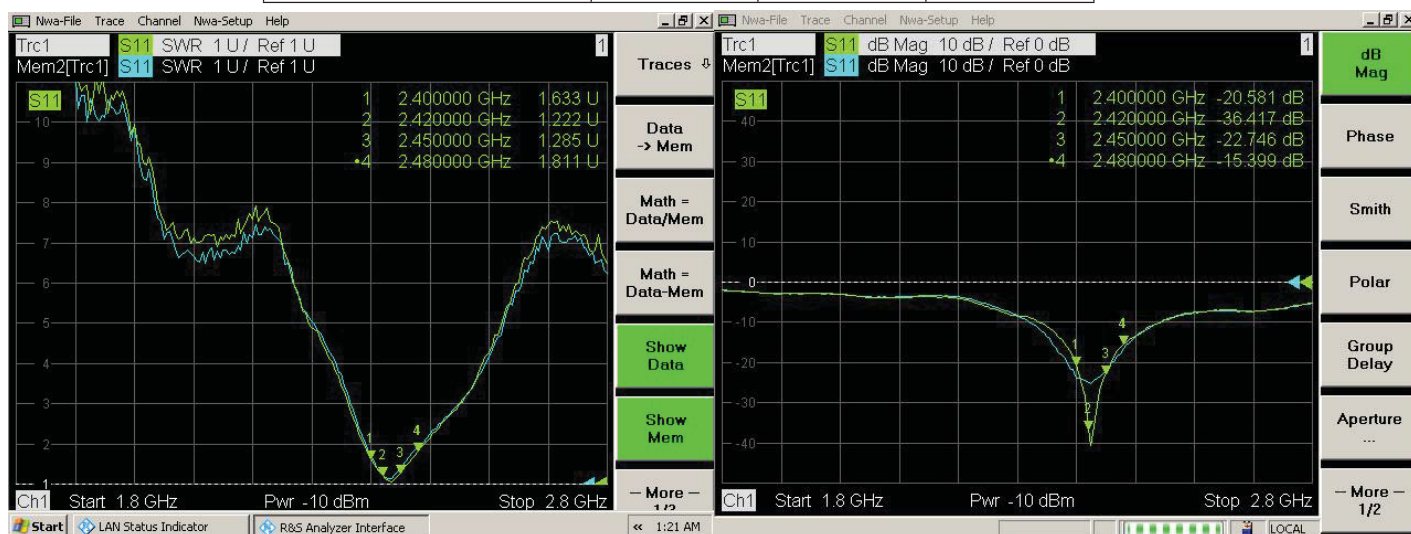
4. RF Performance

4.1 Passive parameters

Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.64	0.61	0.44	0.82	0.67	0.53	0.84	0.81	0.02	0.18	0.22

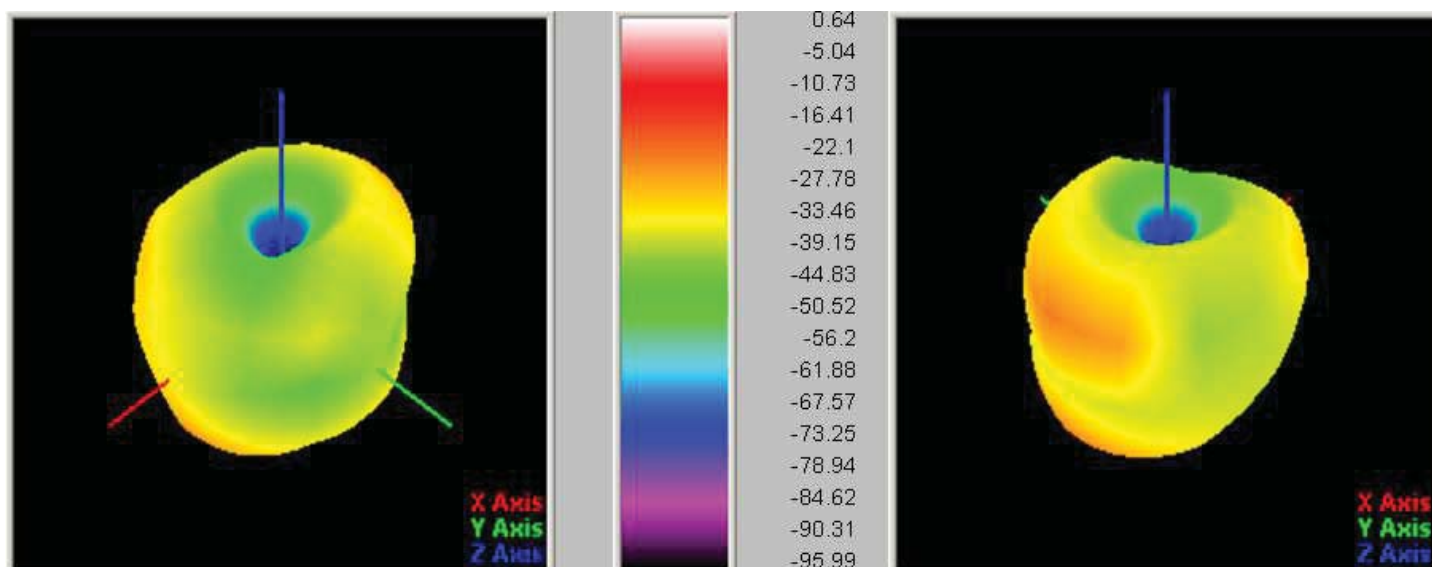
4.2 S Parameter

Frequency (MHz)	2400	2450	2480
Return Loss (dB)	-20.58	-22.74	-15.39
VSWR	1.63	1.28	1.81

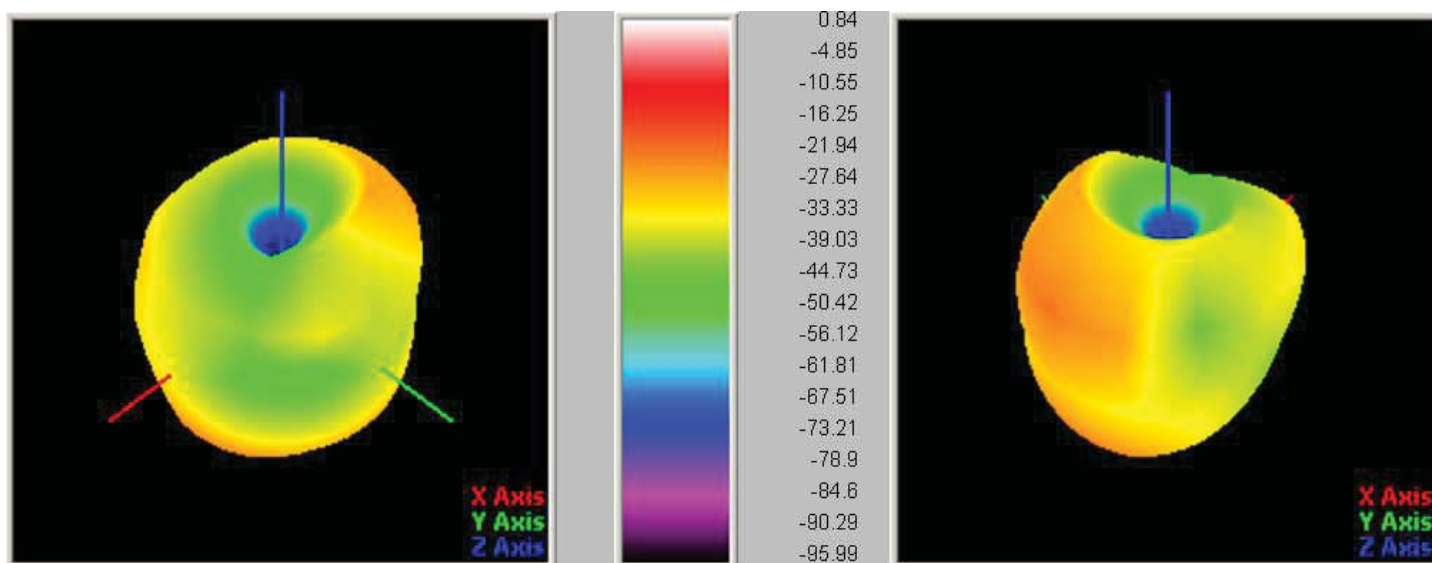




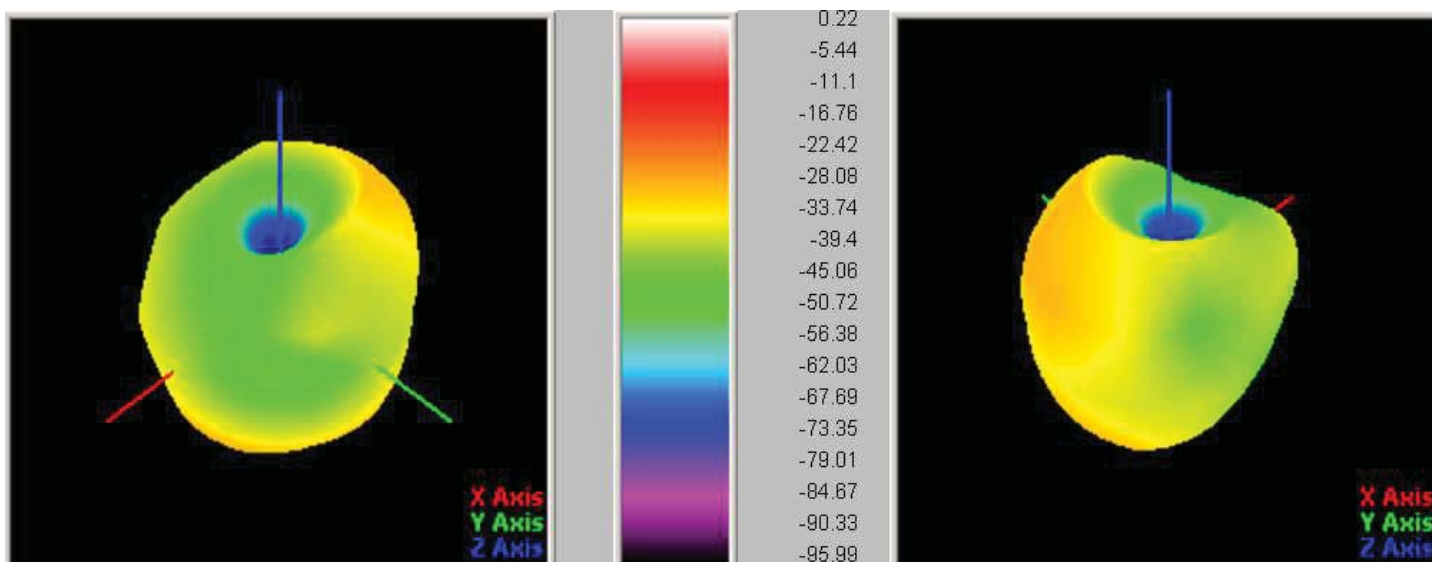
4.3 Antenna 3D Radiation Pattern



Freq2400.00MHZ



Freq2460.00MHZ



5. ME Drawing for the antenna

