

Content

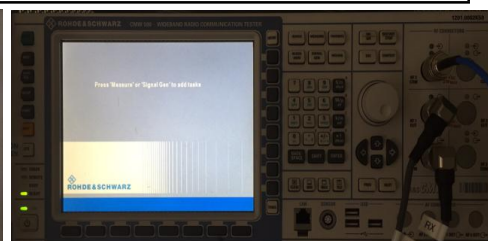
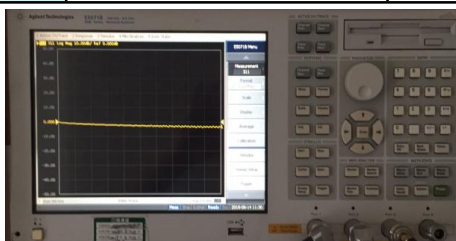
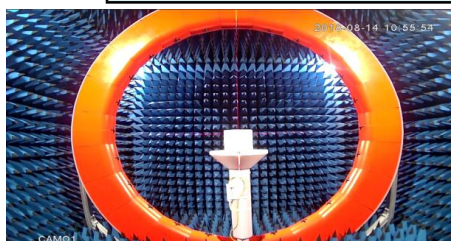
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1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	23.9x14.9	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3.0±0.5	dBi
Efficiency	>40	%
Connector Type	NA	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

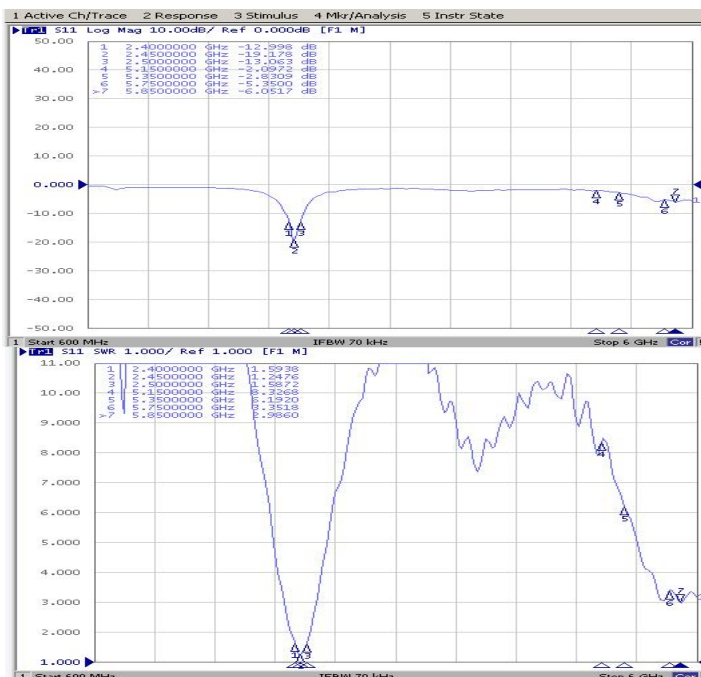
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

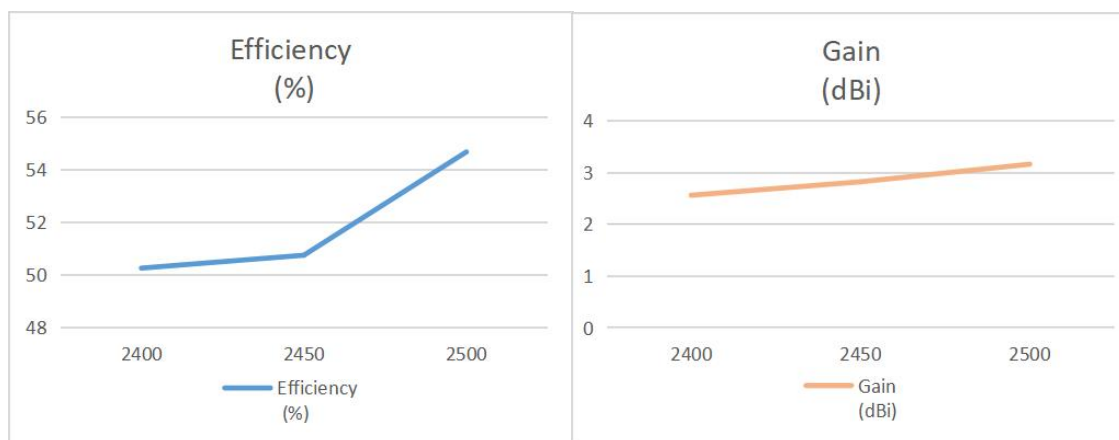
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-12.99	1.59
2450	-19.17	1.24
2500	-13.06	1.58

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL = 20 * \log_{10}[(VSWR + 1)/(VSWR - 1)]$



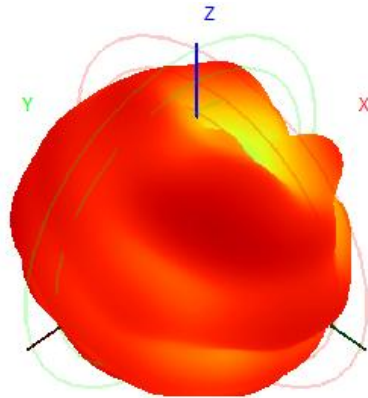
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	50.26	50.75	54.67
Gain (dBi)	2.56	2.82	3.16

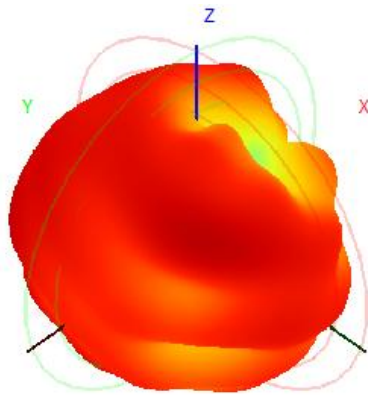


5. Radiation Pattern

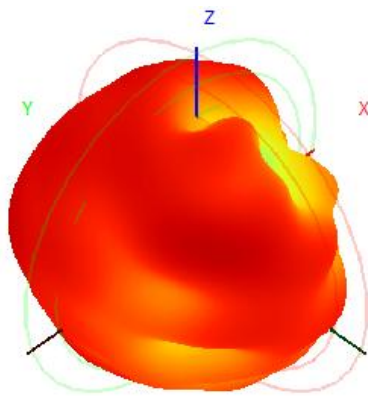
5-1 Antenna 3D Radiation Pattern



2400MHz

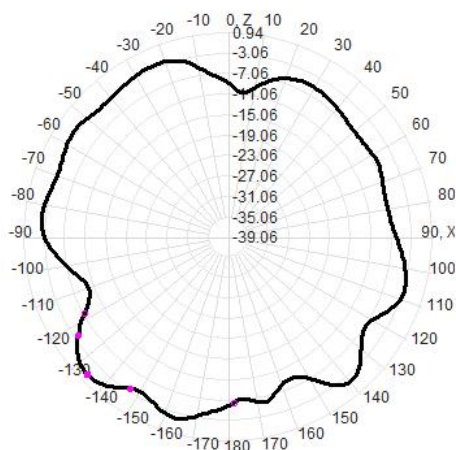


2450MHZ

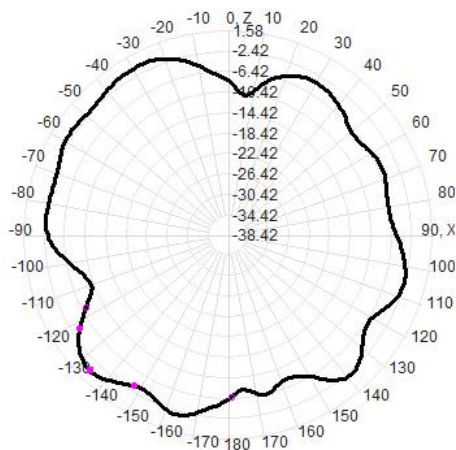


2500MHZ

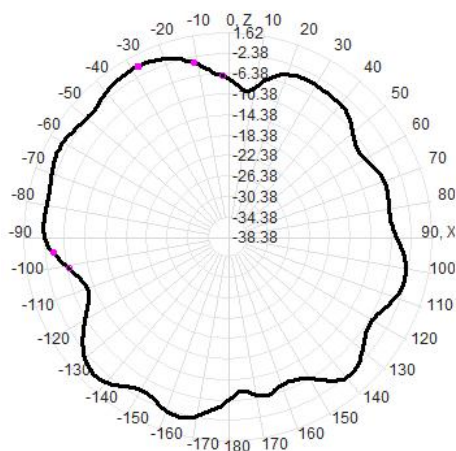
5-2 Antenna 2D Radiation Pattern



2400MHz



2450MHz

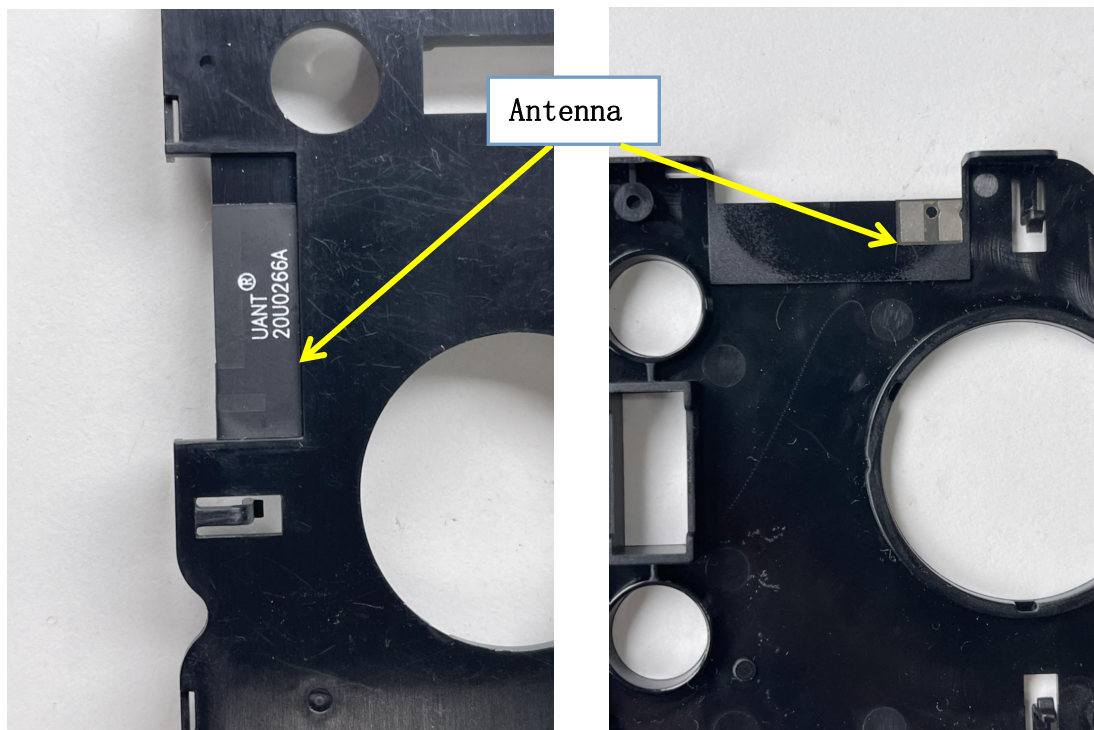


2500MHz

6. Active test data

Test Information											
#	Tester	Type	Azimuths	Elevations	Standard	Band	Channel	Frequency	Max	Min	Total
1	Cmw500	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	17.68	3.22	13.35
2	Cmw500	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	14.8	-2.41	11.07
3	Cmw500	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	-67.48	-81.07	-77.36
4	Cmw500	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	-67.91	-81.2	-77.7
5	Cmw500	TIS(EIRP)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	11	2462	-63.68	-80.58	-76.85
6	Cmw500	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	6	2437	15.31	2.14	11.8

7. Antenna installation diagram



8.Mechanical Specification

