



深圳市安特通讯科技有限公司

Shenzhen ANT Communication Technology Co., LTD.

Product specification sheet

customer	虎一	project	WT02
Customer part number		Part number	ANT652302IB56-01
version	V2.0	describe	PCB ANT, weld
RF	LIYU	ME	LIZHIEN
technical manager	LIUFENG	date	2024/3/4

customer confirmation	
Does the assembly meet your company's requirements: <input type="checkbox"/> OK <input type="checkbox"/> NG	

2. Product specifications and technical parameters:

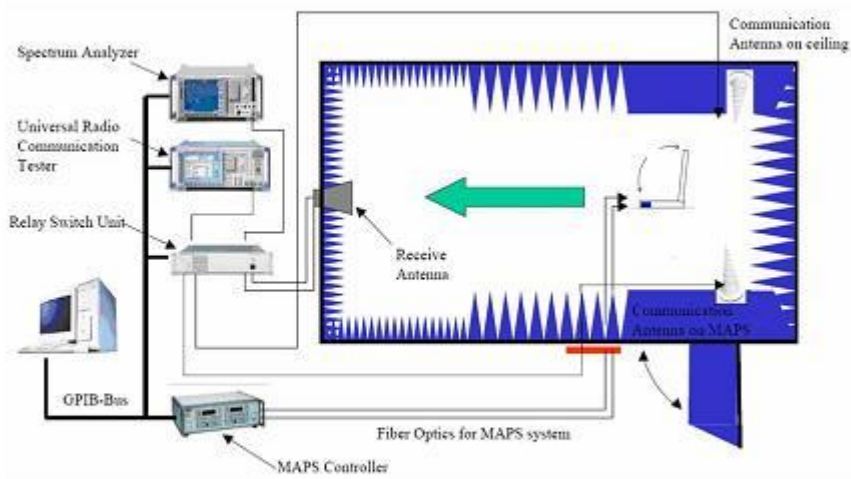
Electrical performance parameters	
Frequency range	2400-2500MHZ
Impedance	50 Ω
standing-wave ratio	≤2.5
Maximum gain	2.05dBi
efficiency	>40%
Polarization mode	vertical
Radiation direction	Omnidirectional
mechanical parameters	
Antenna size	42*11.9MM
Coaxial line type	φ 1.13
Joint type	Second generation terminals
Salt spray test	24H
Environmental parameters	
operation temperature	-45℃---+85℃

3. Test equipment

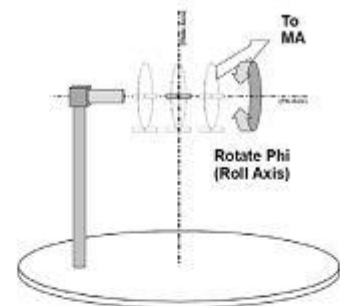
3.1. Agilent E5071C

3.2. CMW500 Agilent 8960

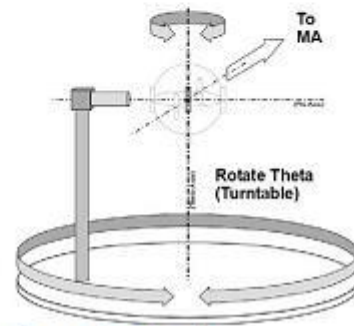
3.3. SATIMO-16 XH-24



(Testing by 3D anechoic chamber)



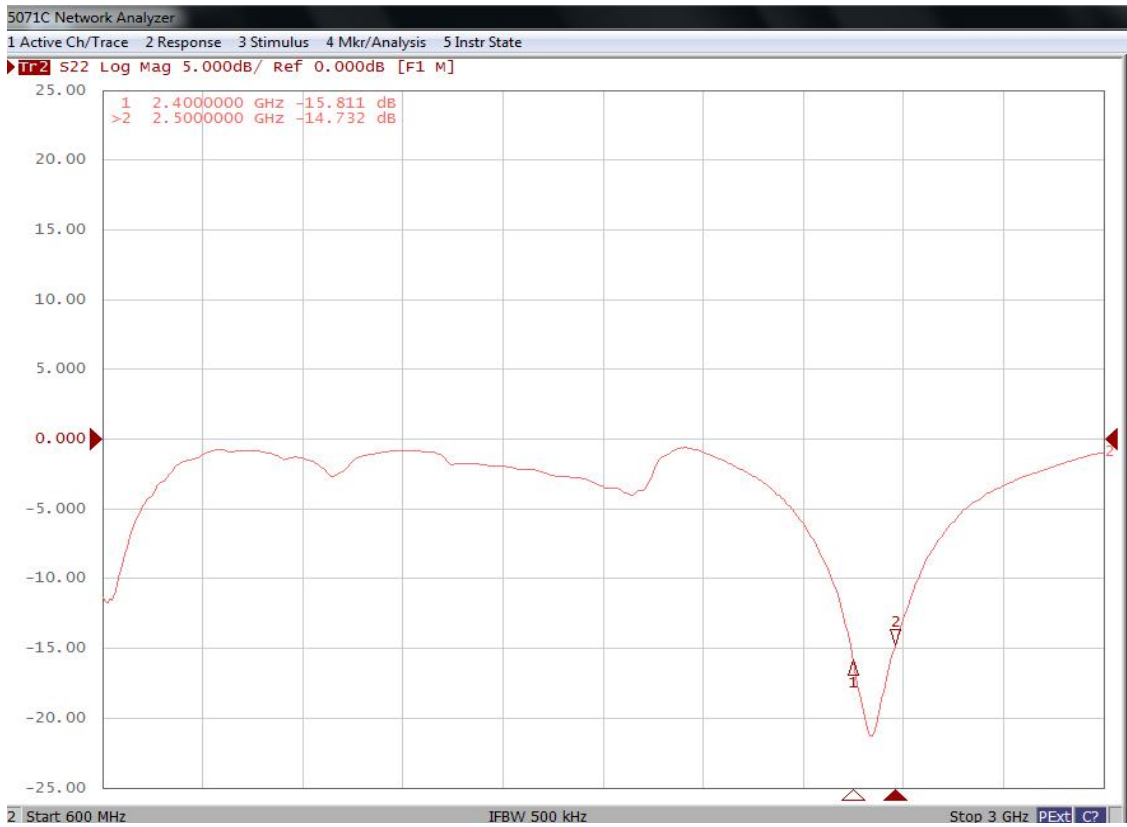
Phi axis test



Theta axis test

4. Antenna testing parameters

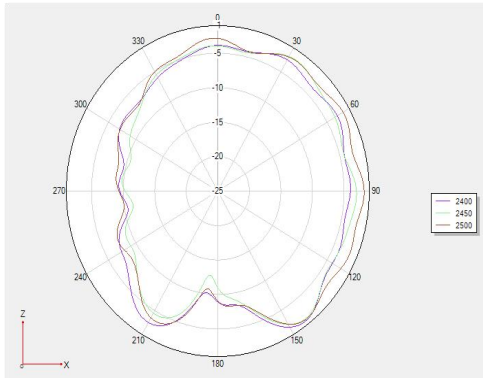
S11



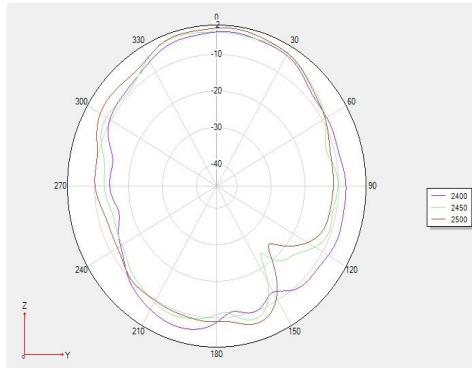
Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-3.72	42.4	1.43
2410	-3.85	41.2	1.4
2420	-3.86	41.1	2.05
2430	-3.82	41.5	1.96
2440	-3.78	41.8	1.77
2450	-3.73	42.3	1.89
2460	-3.9	40.7	1.96
2470	-3.77	41.9	1.53
2480	-3.81	41.5	1.56
2490	-3.8	41.6	1.75
2500	-3.84	41.3	1.27

2D-Etotal (2400/2450/2500Mhz)

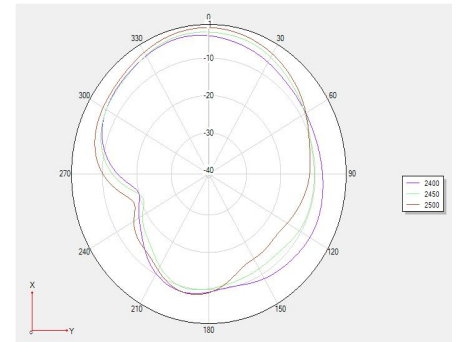
Phi 0 2D



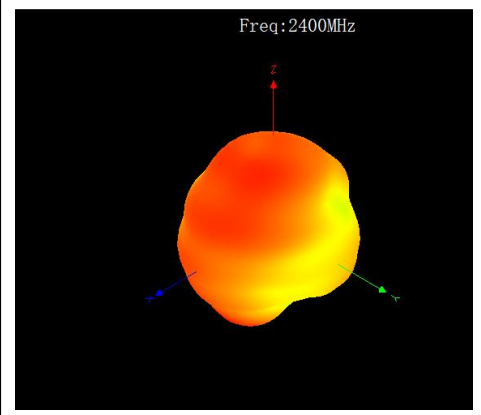
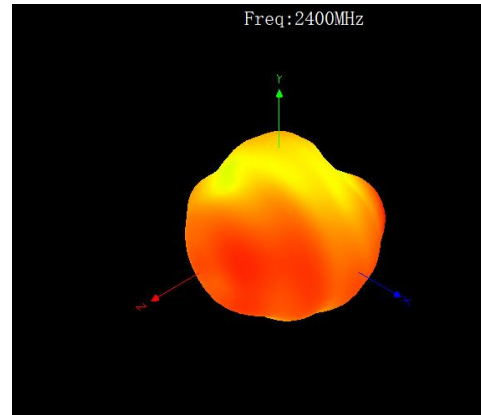
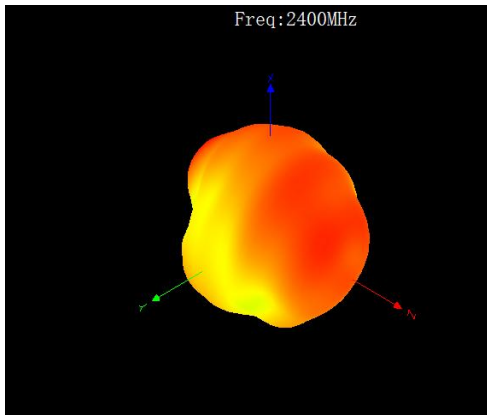
Phi 90 2D



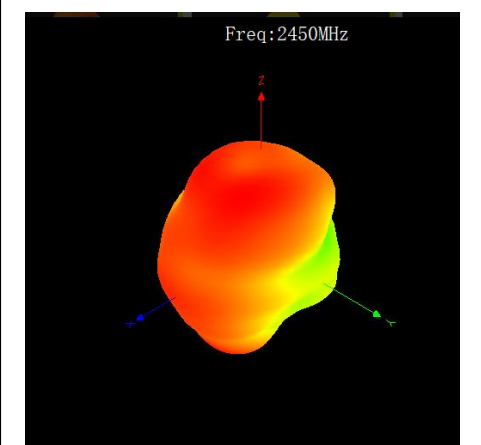
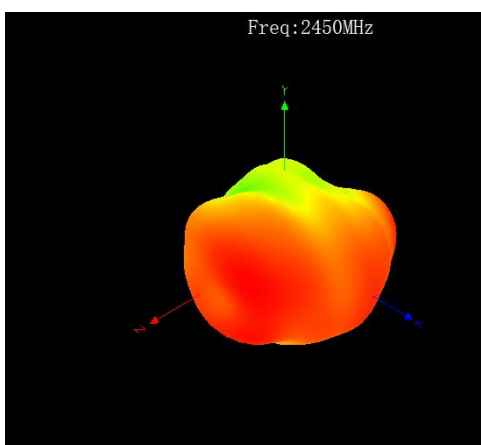
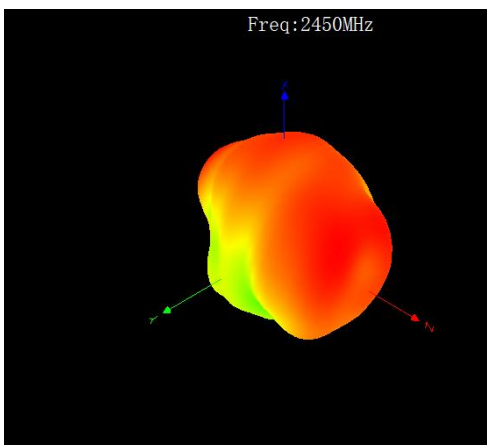
Theta 90 2D



3D-Etotal (2400Mhz)



3D-Etotal (2450Mhz)



3D-Etotal (2500Mhz)

