



深圳市安特通讯科技有限公司

ANT Communication Technology (Shenzhen) Co., LTD.

WT10 Antenna Test Report

Tester : Li Yu

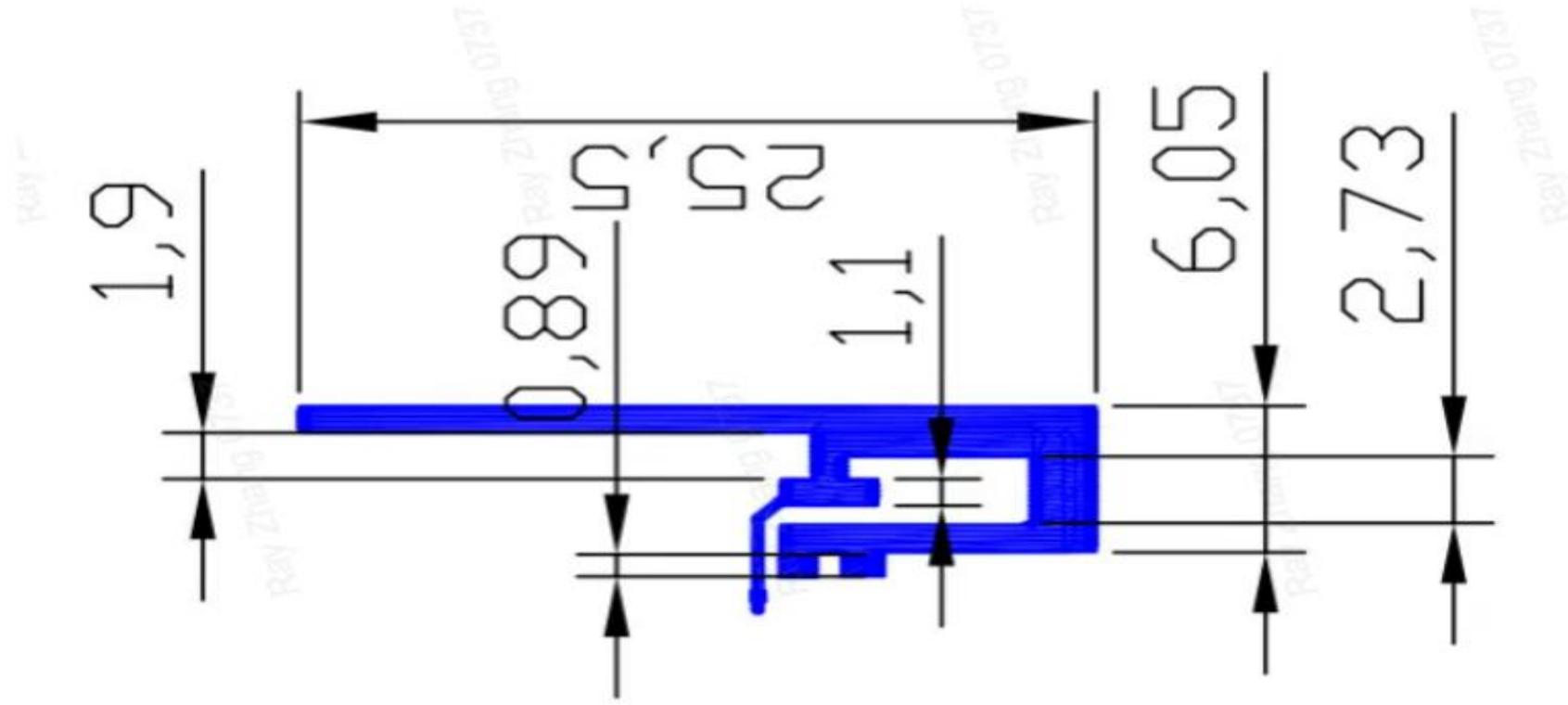
Approval : Liu Feng

**Company Address:701,BuildingA,NO.10 Jiangfu Road, xinzhuang
Community, Matian street, Guangming District, Shenzhen**

Date : 2024 / 09 / 29



一、Antenna size





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二、Product specifications and technical parameters:

Telecommunication energy parameters	
Frequency range	2400~2500MHz
Input impedance	50 Ω
Standing Poppy	≤ 2.2
Max gain	1.83dBi
efficiency	>43%
Polarization mode	vertical
Radiation direction	omnidirectional
Mechanical parameters	
Antenna size	/
Coaxial line <u>trpy</u>	/
<u>Trpe</u> of connector	/
Pulling force	/
Smoke experiment	/
Environmental parameters	
Working temperature	/



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三、Testing equipment

1. network analyzer

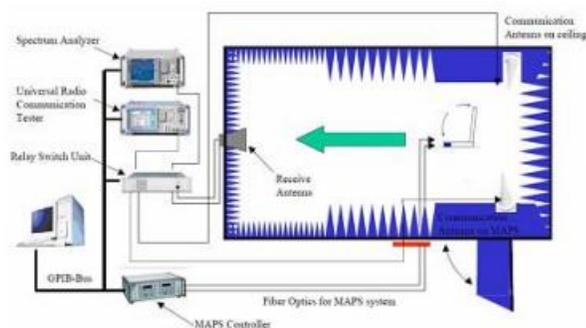
Agilent E5071C

2. Comprehensive test instrument

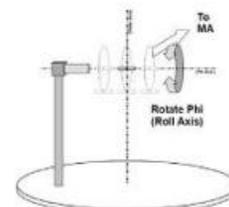
CNV500 Agilent 8960

3. 3D testing system

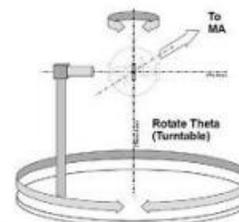
SATIHO-16 XH-24



(Testing by 3D anechoic chamber)



Phi axis test



Theta axis test

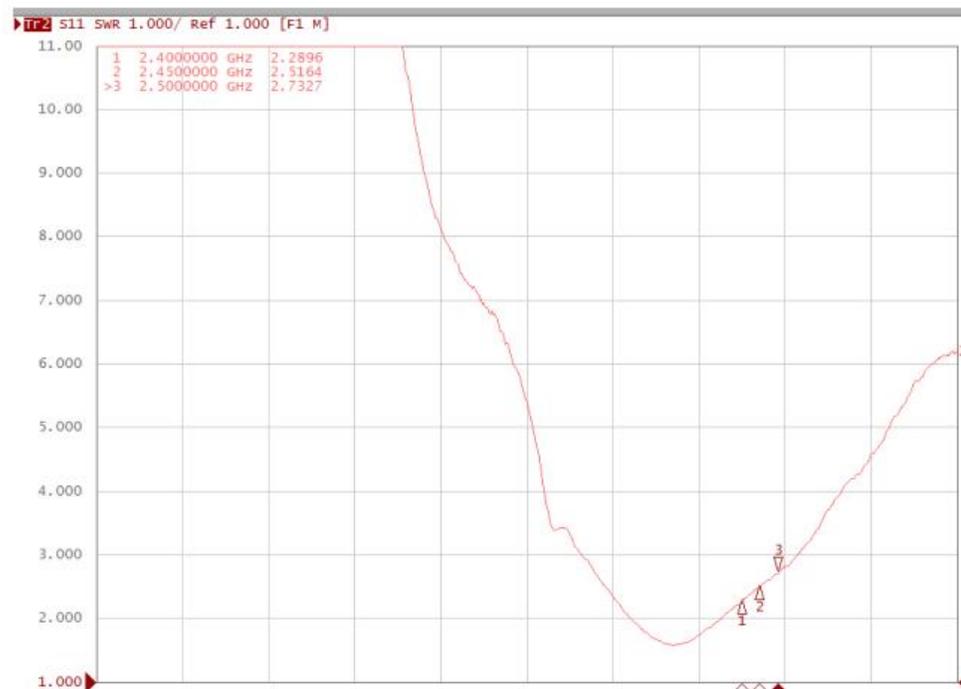


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四、Antenna testing parameters

S11Parameter





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Passive efficiency of antenna

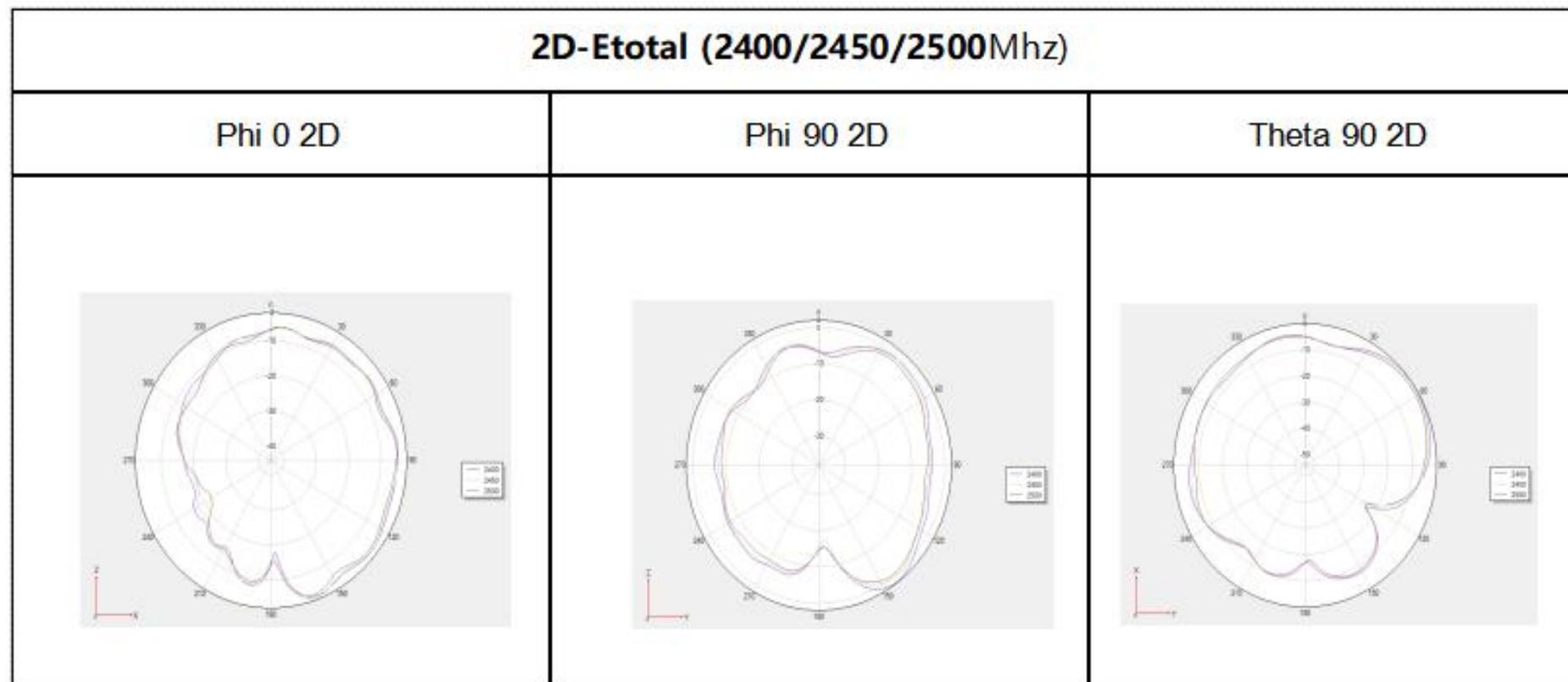
Passive Test			
Frequency/Mhz	Efficiency/dB	Efficiency/%	MaxGain/dBi
2400	-3.63	43.35	1.83
2410	-4.15	38.46	0.86
2420	-3.8	41.69	1.6
2430	-4.32	36.98	0.42
2440	-3.58	43.85	1.27
2450	-4.21	37.93	0.29
2460	-3.97	40.09	0.5
2470	-4.5	35.48	0.08
2480	-4.4	36.31	-0.02
2490	-4.65	34.28	0.19
2500	-4.63	34.43	-0.48



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2D antenna diagram

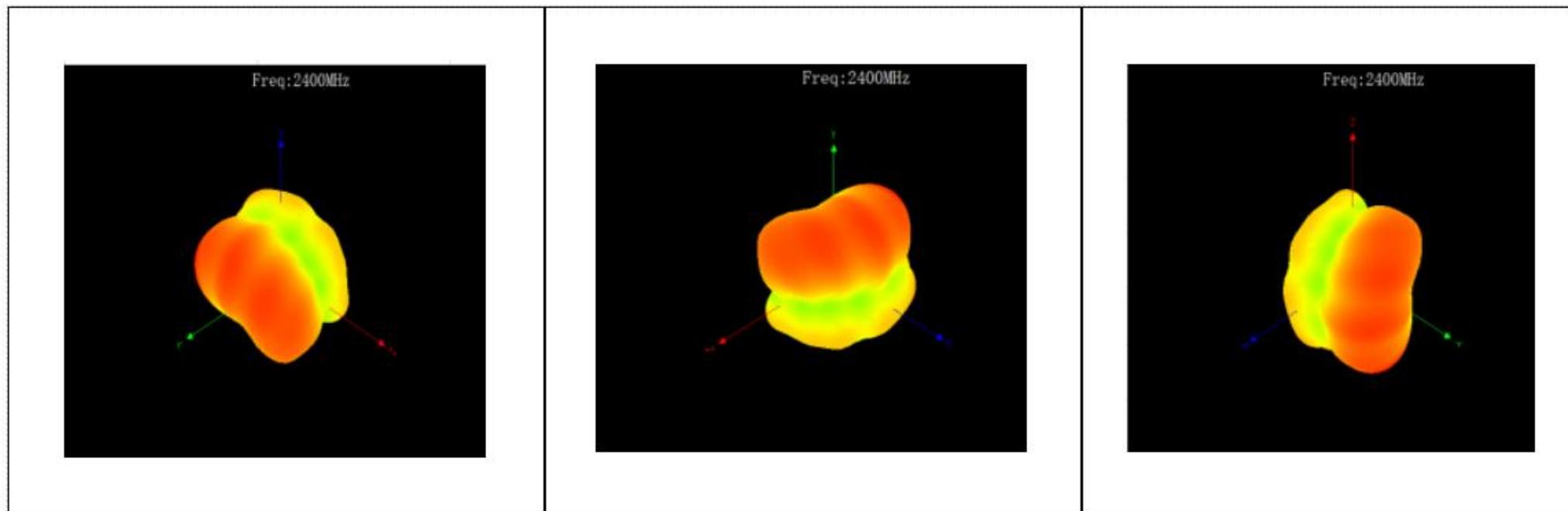




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3D image of antenna

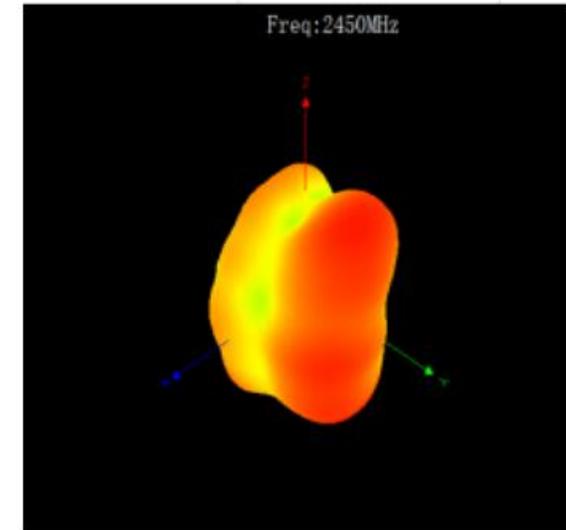
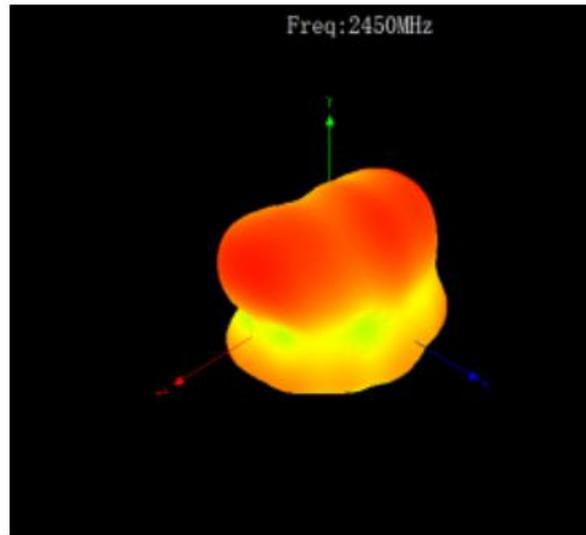
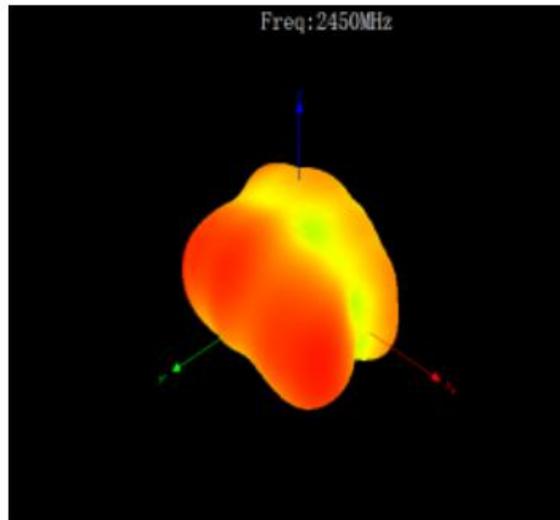




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3D image of antenna

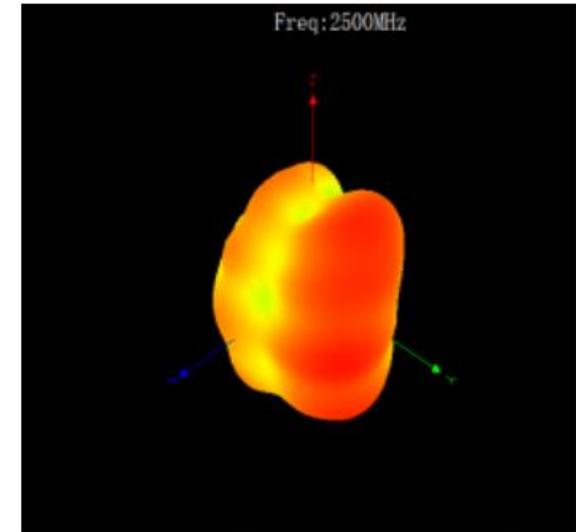
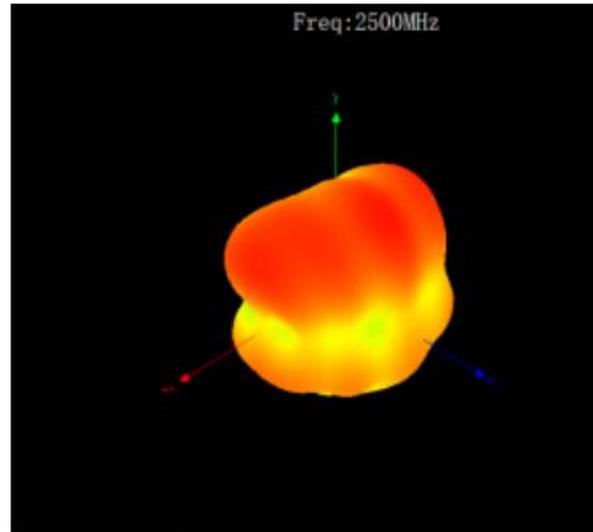
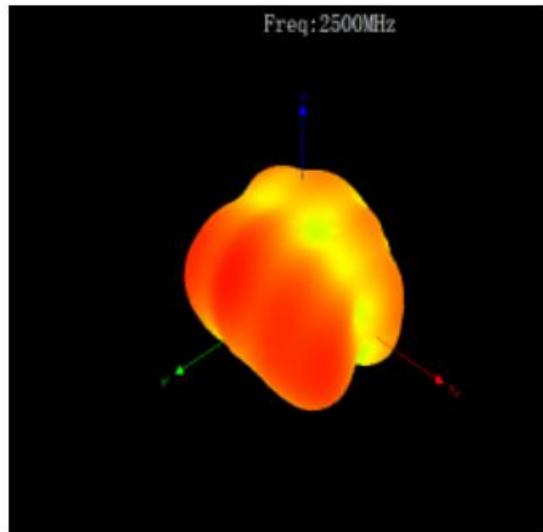




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3D image of antenna





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THANK YOU!