



# 深圳云里物里科技股份有限公司 产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-115

V001

密级：绝密 /confidentiality

Antenna Coding: ANT-BBNCNC20001

Antenna Type: PCB onboard Antenna

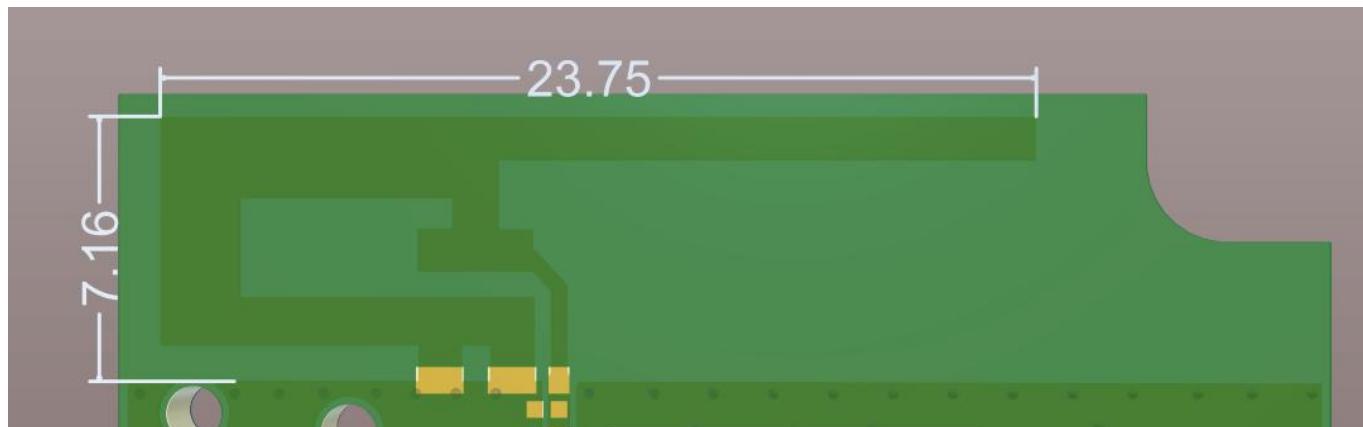
Model of the DUT: MSL01

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

## 1、Technical Specification

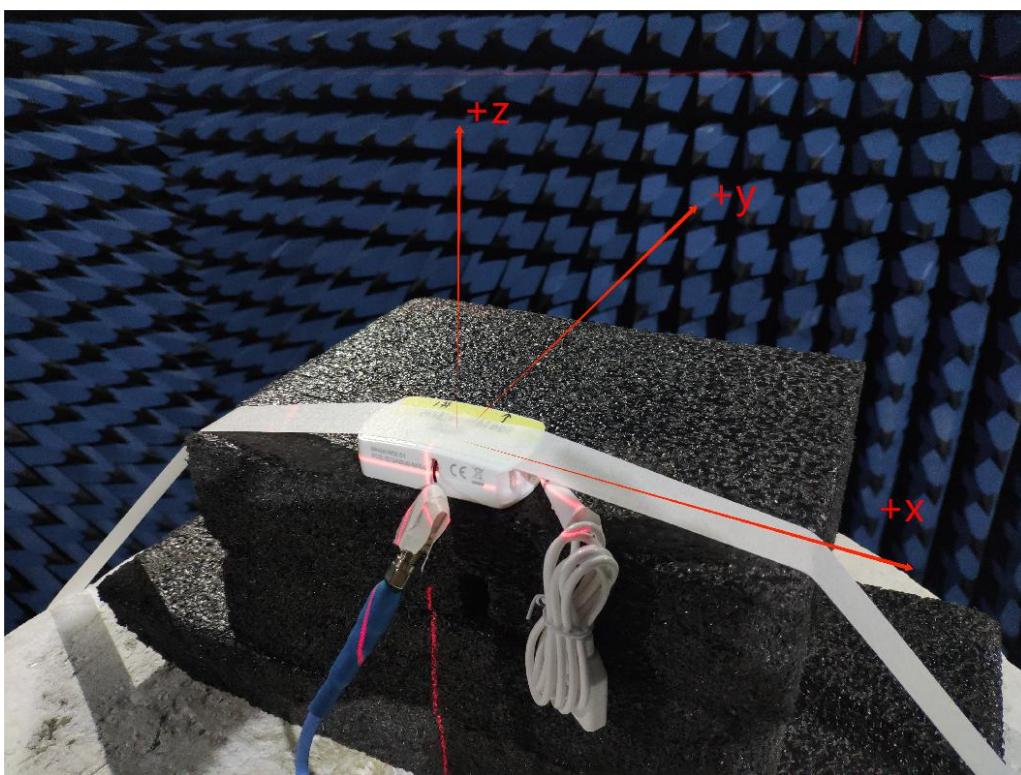
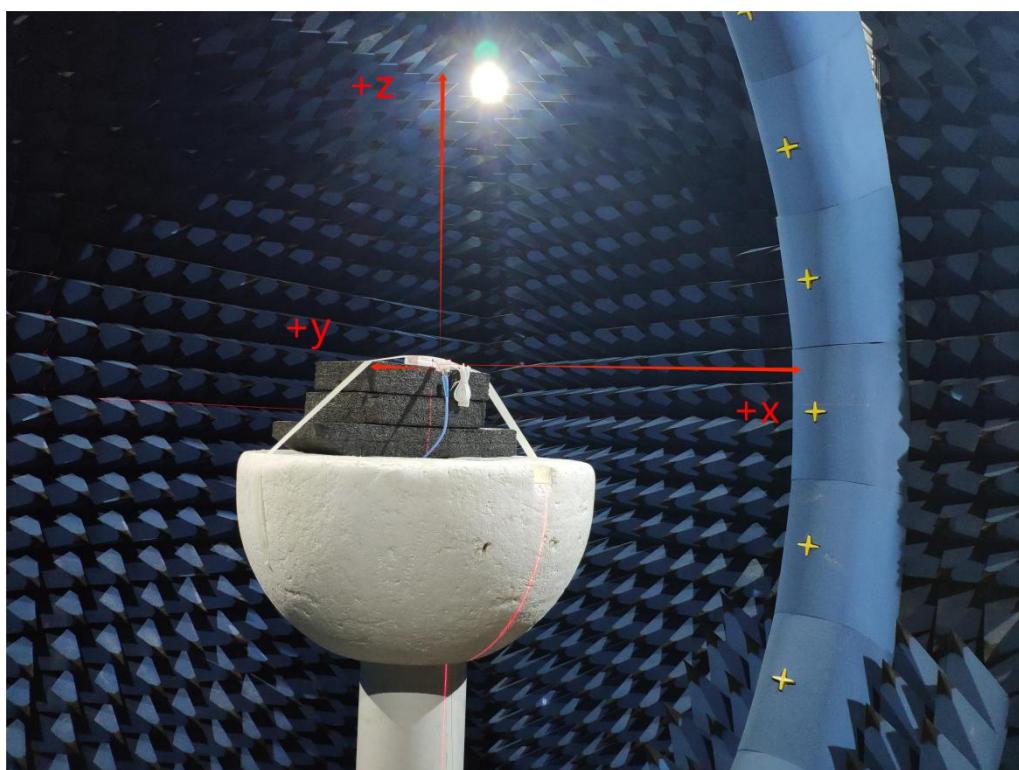
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance ( $\Omega$ )	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	3.26
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	23.75*7.16
Radiator	Cuprum

## 2、The shape and size of the antenna



### 3、 The result of the test

#### 3.1 Test Environment





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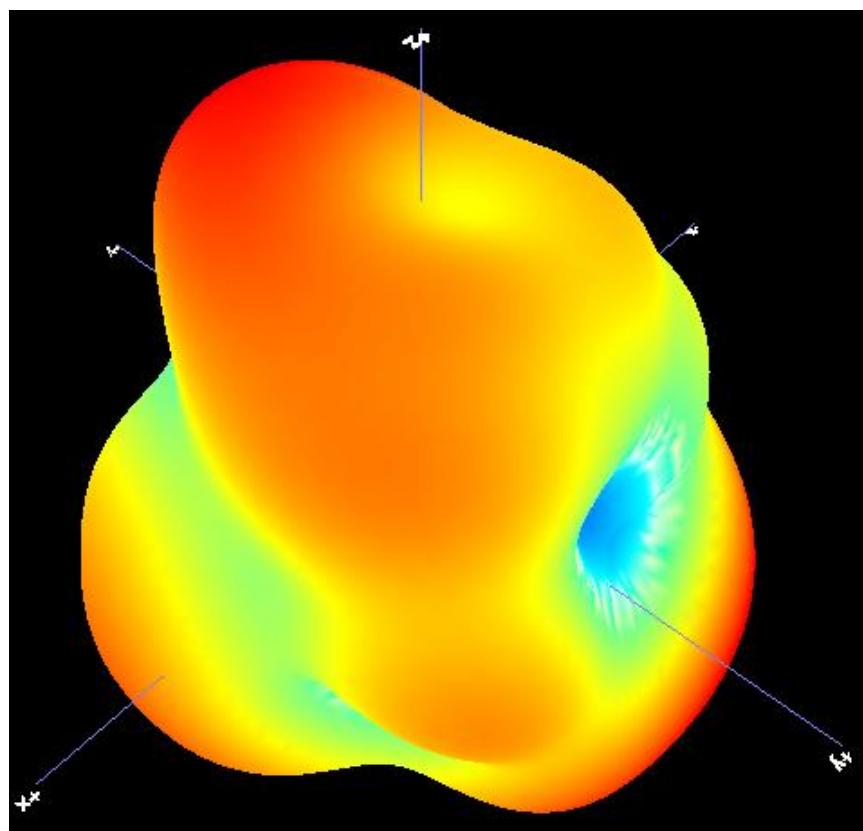
V001

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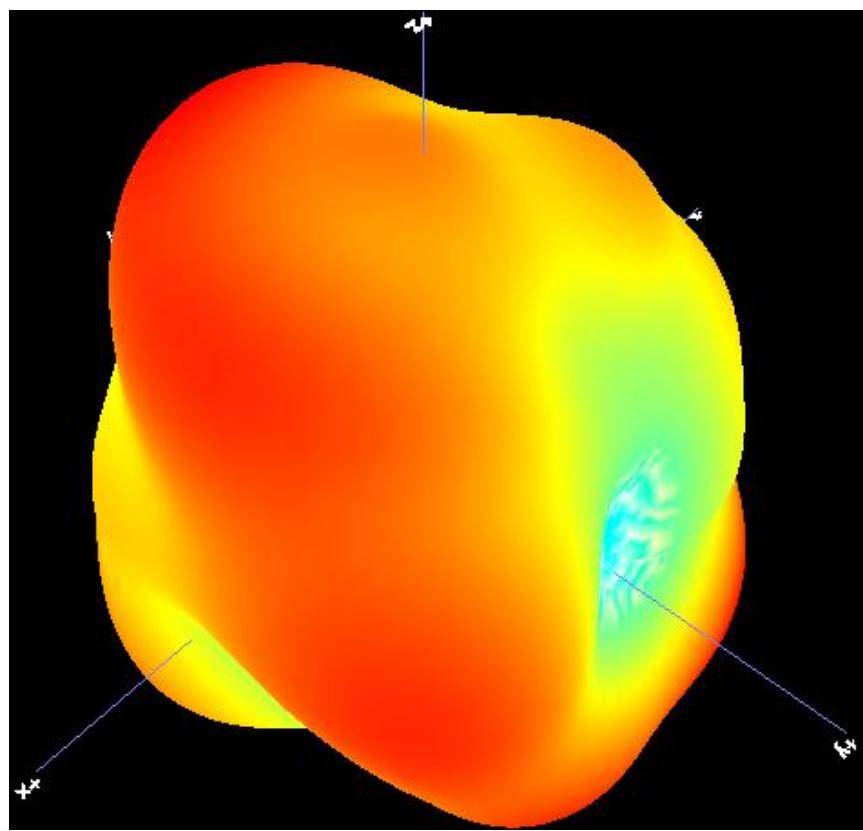
### 3.2 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency(%)	PeakGain (dBi)
2400MHz	2.40	65%	3.26
2402MHz	2.40	66%	
2404MHz	2.36	66%	
2406MHz	2.38	66%	
2408MHz	2.38	66%	
2410MHz	2.41	67%	
2412MHz	2.43	67%	
2414MHz	2.43	67%	
2416MHz	2.50	67%	
2418MHz	2.53	68%	
2420MHz	2.55	68%	
2422MHz	2.60	68%	
2424MHz	2.69	68%	
2426MHz	2.76	69%	
2428MHz	2.84	69%	
2430MHz	2.94	69%	
2432MHz	3.03	69%	
2434MHz	3.11	70%	
2436MHz	3.06	70%	
2438MHz	3.13	70%	
2440MHz	3.18	70%	
2442MHz	3.22	70%	
2444MHz	3.26	70%	
2446MHz	3.11	70%	
2448MHz	3.10	70%	
2450MHz	3.10	71%	
2452MHz	3.09	71%	
2454MHz	3.07	71%	
2456MHz	2.93	71%	
2458MHz	3.04	71%	
2460MHz	3.00	71%	
2462MHz	2.96	71%	
2464MHz	2.92	71%	
2466MHz	2.97	71%	
2468MHz	2.93	71%	
2470MHz	2.89	71%	
2472MHz	2.84	70%	
2474MHz	2.78	70%	
2476MHz	2.80	70%	
2478MHz	2.71	70%	
2480MHz	2.59	69%	

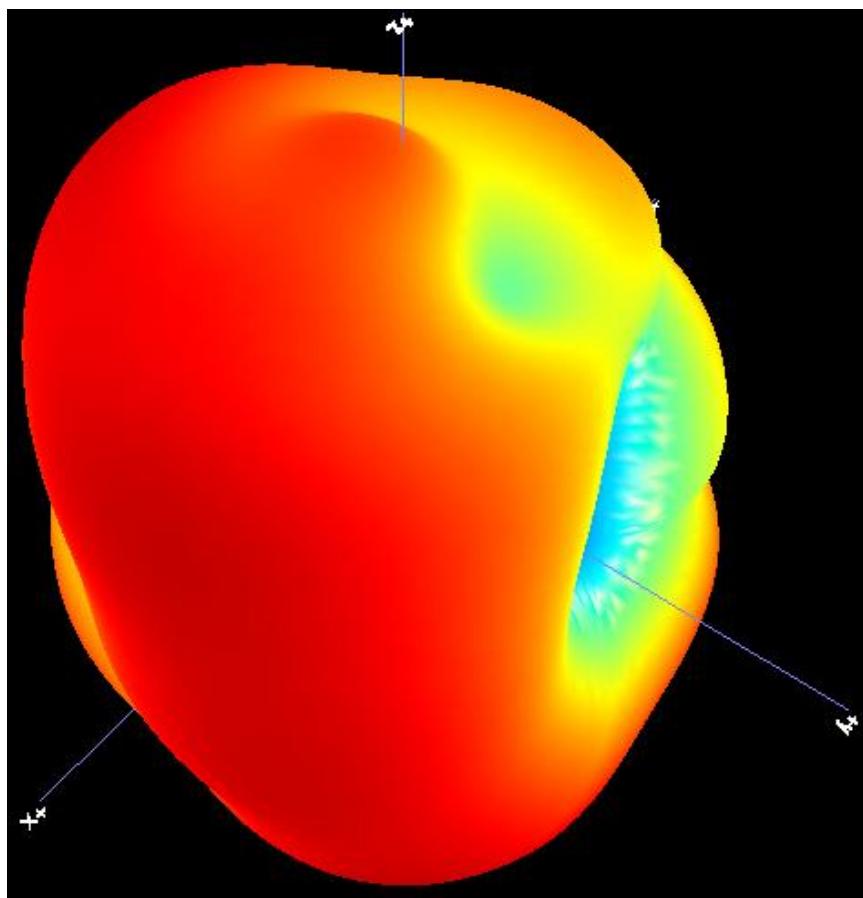
### 3.3 3D Polar Plot



2402MHz



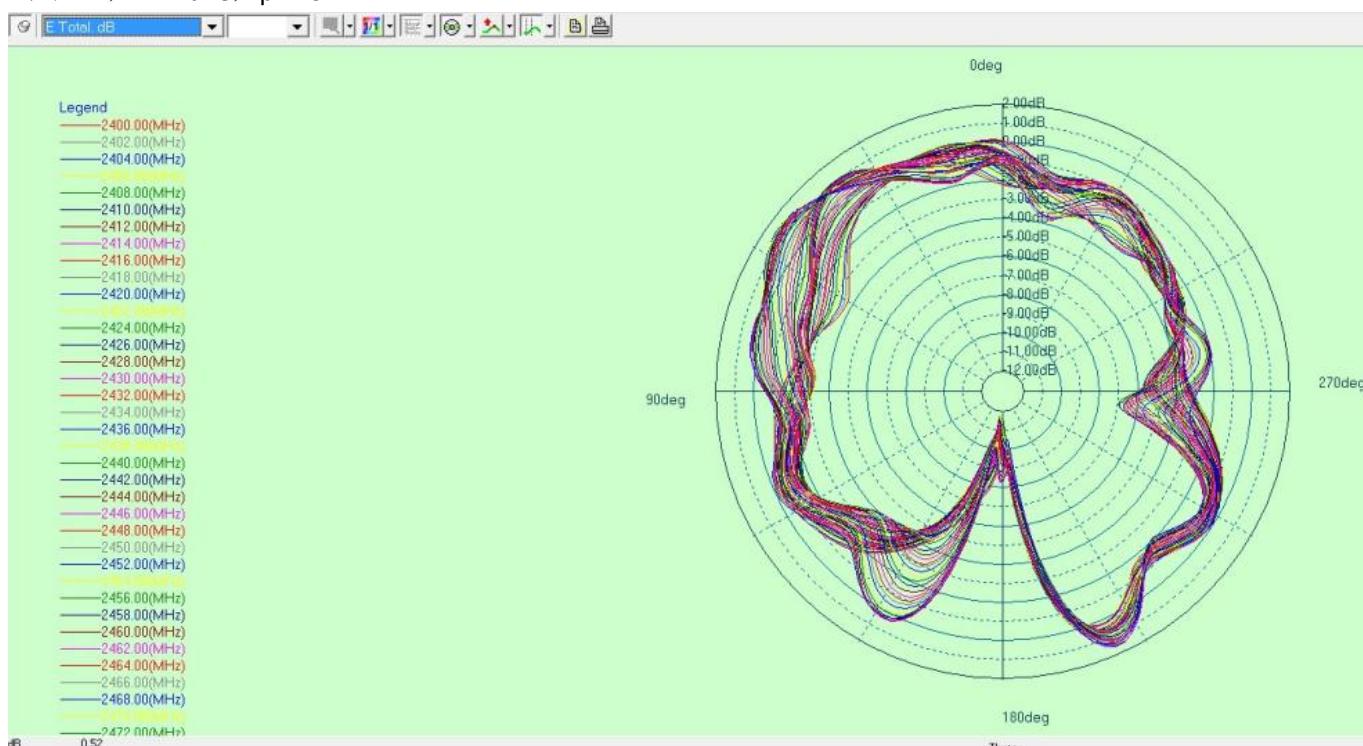
2440MHz



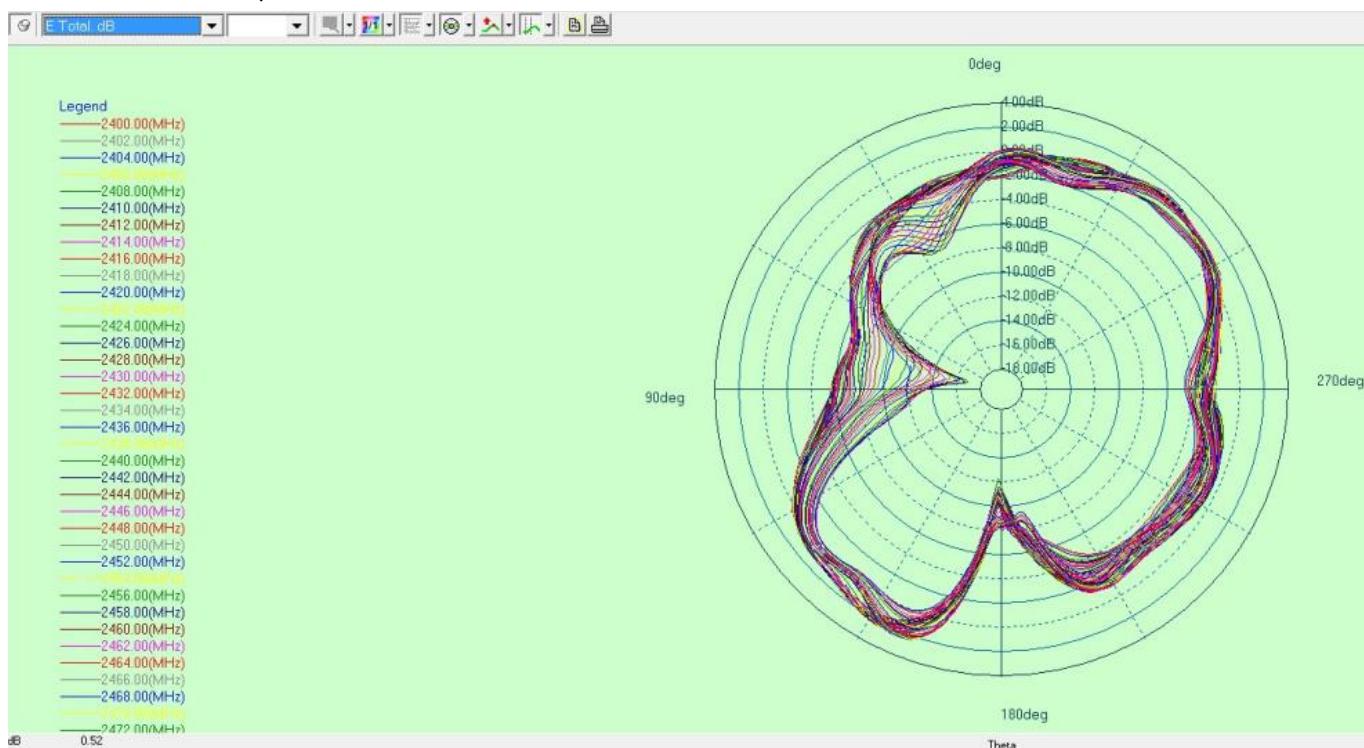
2480MHz

### 3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°



(3) H, XY plane, theta=90°

