

Antenna Coding: ANT-BBNCNC23022

Antenna Type: PCB onboard Antenna

Model of the DUT: MWL01

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

Address: 3rd Floor, I Building, Gangzhihong Science Park, Qinglong Road, Longhua District,
Shenzhen City, China

1、Technical Specification

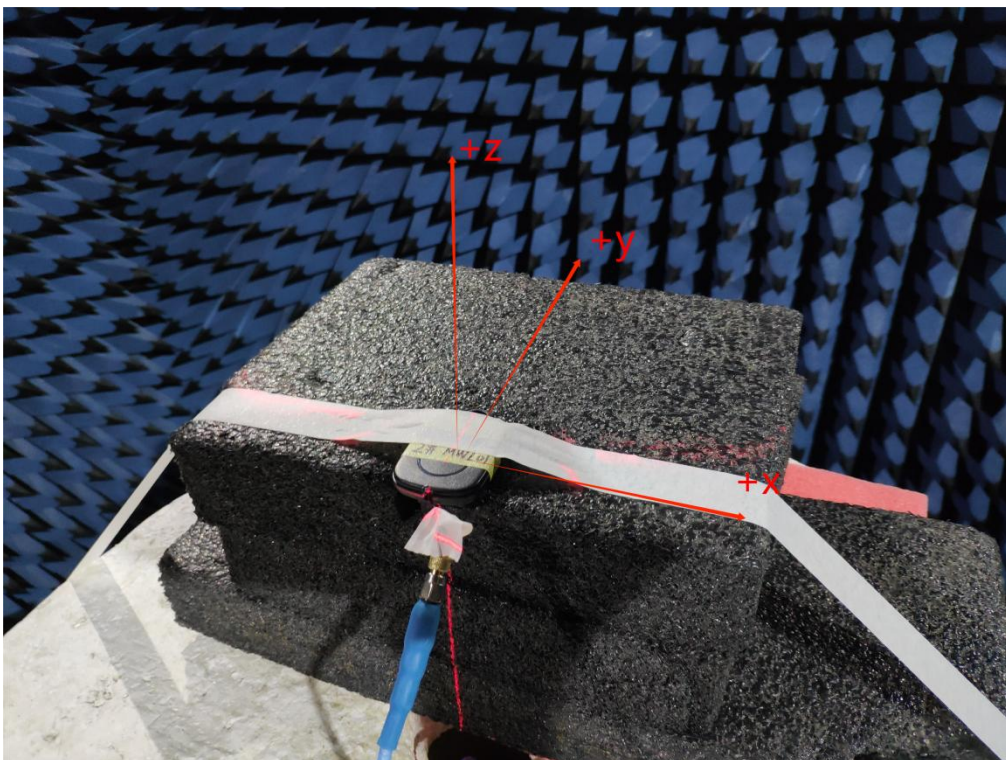
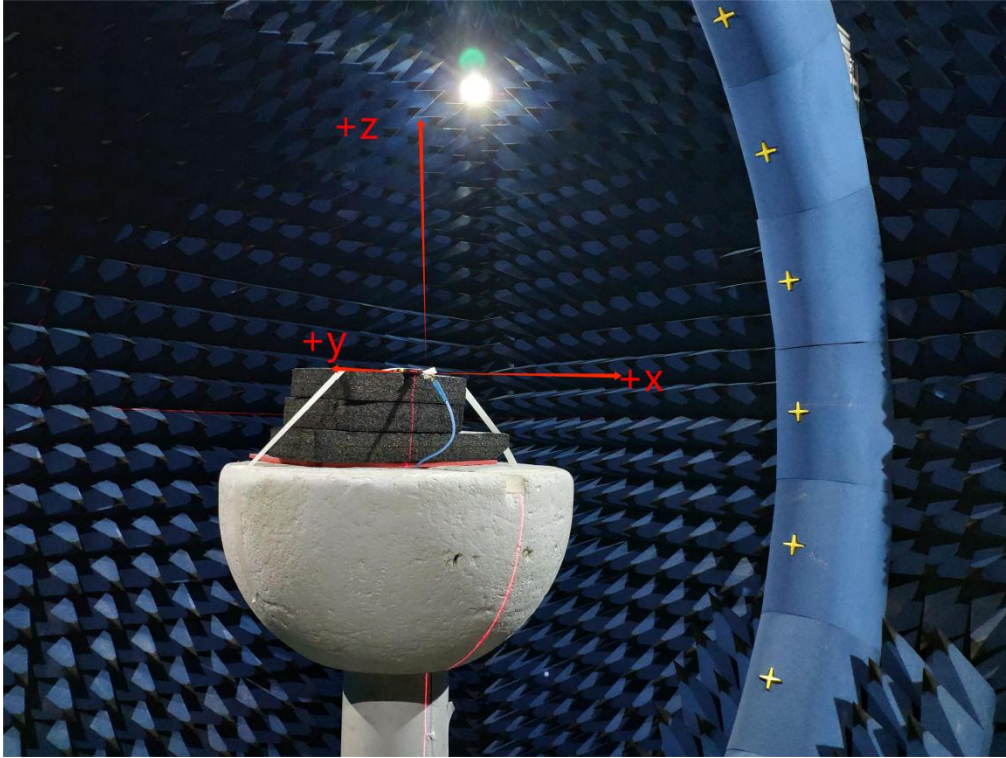
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	4.42
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	14.8*7.7
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

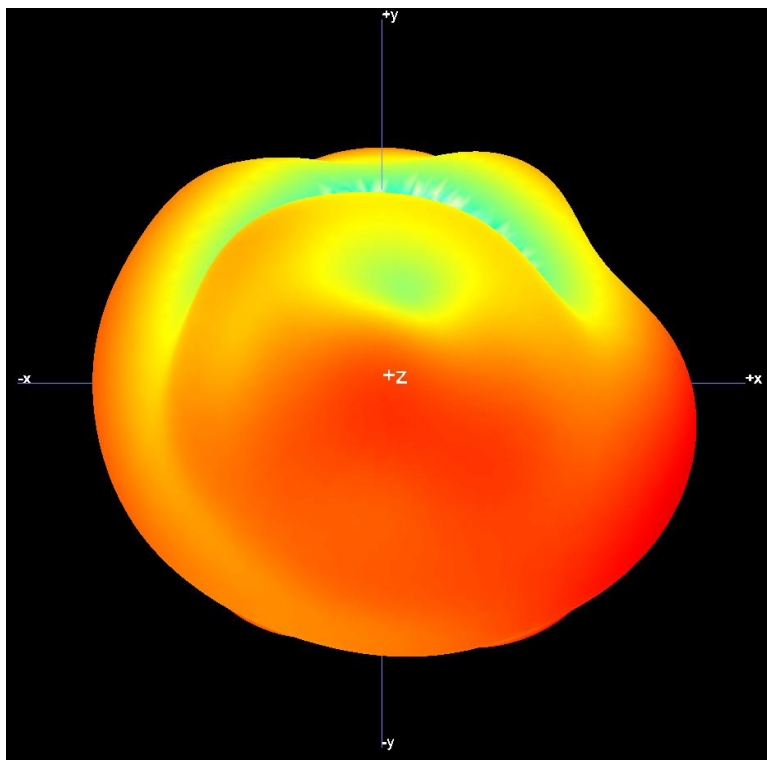
3.1 Test Environment



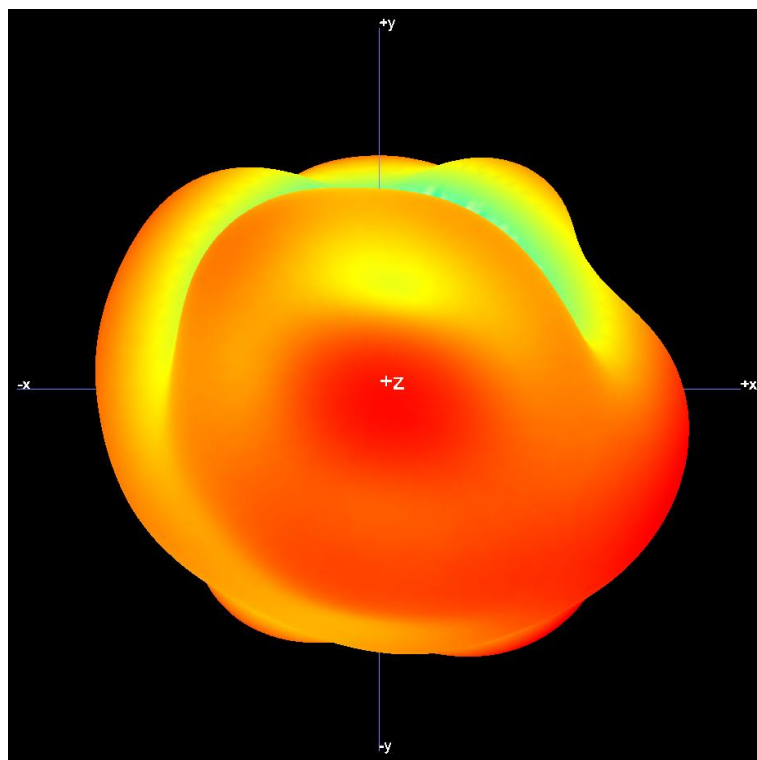
3.2 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency()	PeakGain(dBi)
2400MHz	4.40	74%	4.42
2402MHz	4.42	74%	
2404MHz	4.42	74%	
2406MHz	4.39	73%	
2408MHz	4.38	74%	
2410MHz	4.37	74%	
2412MHz	4.34	74%	
2414MHz	4.30	73%	
2416MHz	4.30	74%	
2418MHz	4.30	74%	
2420MHz	4.26	73%	
2422MHz	4.24	73%	
2424MHz	4.25	73%	
2426MHz	4.28	75%	
2428MHz	4.28	75%	
2430MHz	4.27	74%	
2432MHz	4.27	74%	
2434MHz	4.27	75%	
2436MHz	4.17	75%	
2438MHz	4.16	74%	
2440MHz	4.14	74%	
2442MHz	4.14	75%	
2444MHz	4.16	75%	
2446MHz	4.26	75%	
2448MHz	4.24	75%	
2450MHz	4.25	75%	
2452MHz	4.26	75%	
2454MHz	4.25	75%	
2456MHz	4.28	75%	
2458MHz	4.31	75%	
2460MHz	4.32	75%	
2462MHz	4.31	75%	
2464MHz	4.31	75%	
2466MHz	4.16	75%	
2468MHz	4.20	76%	
2470MHz	4.19	76%	
2472MHz	4.19	75%	
2474MHz	4.23	76%	
2476MHz	4.19	76%	
2478MHz	4.16	75%	
2480MHz	4.13	75%	

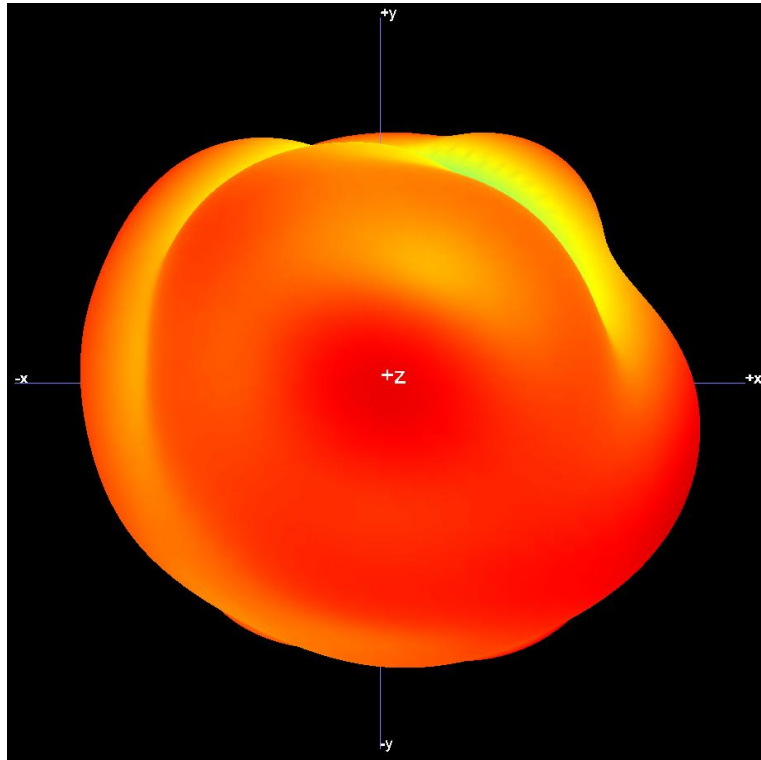
3.3 3D Polar Plot



2402MHz



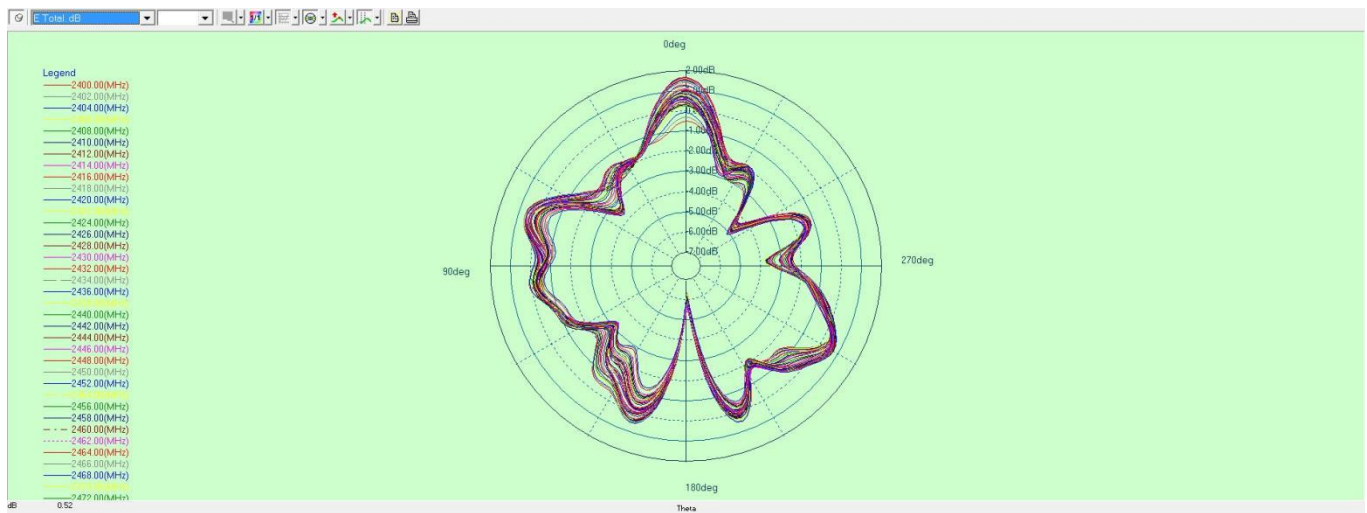
2440MHz



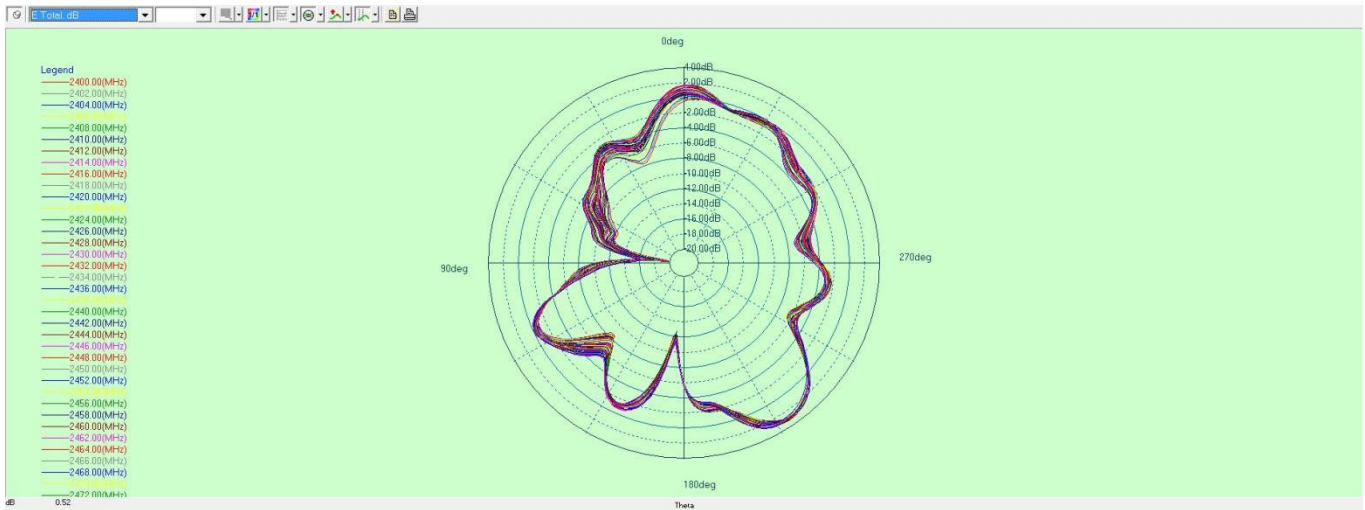
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, $\phi=90^\circ$



(3) H, XY plane, $\theta=90^\circ$

