

Antenna Coding: ANT-BBNCNC23005

Antenna Type: PCB onboard Antenna

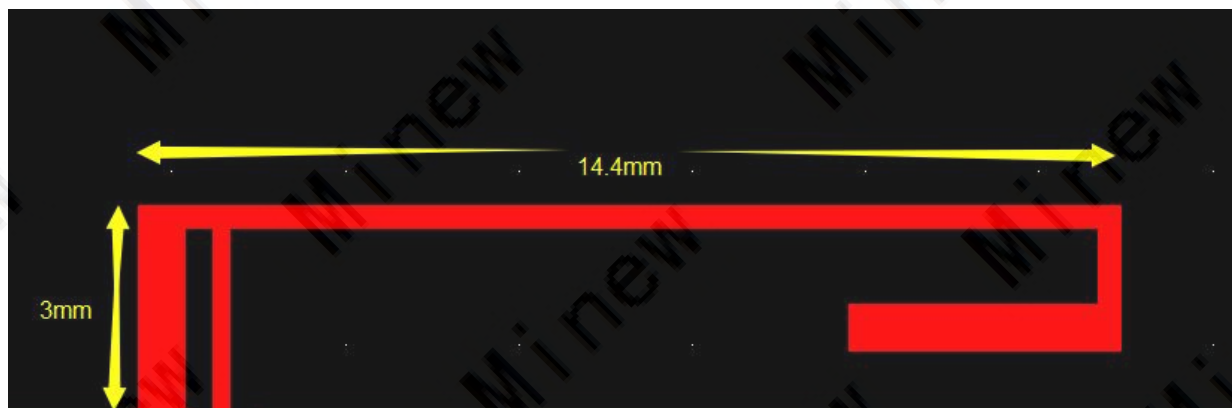
Model of the DUT: KHWBC503F001

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

1、Technical Specification

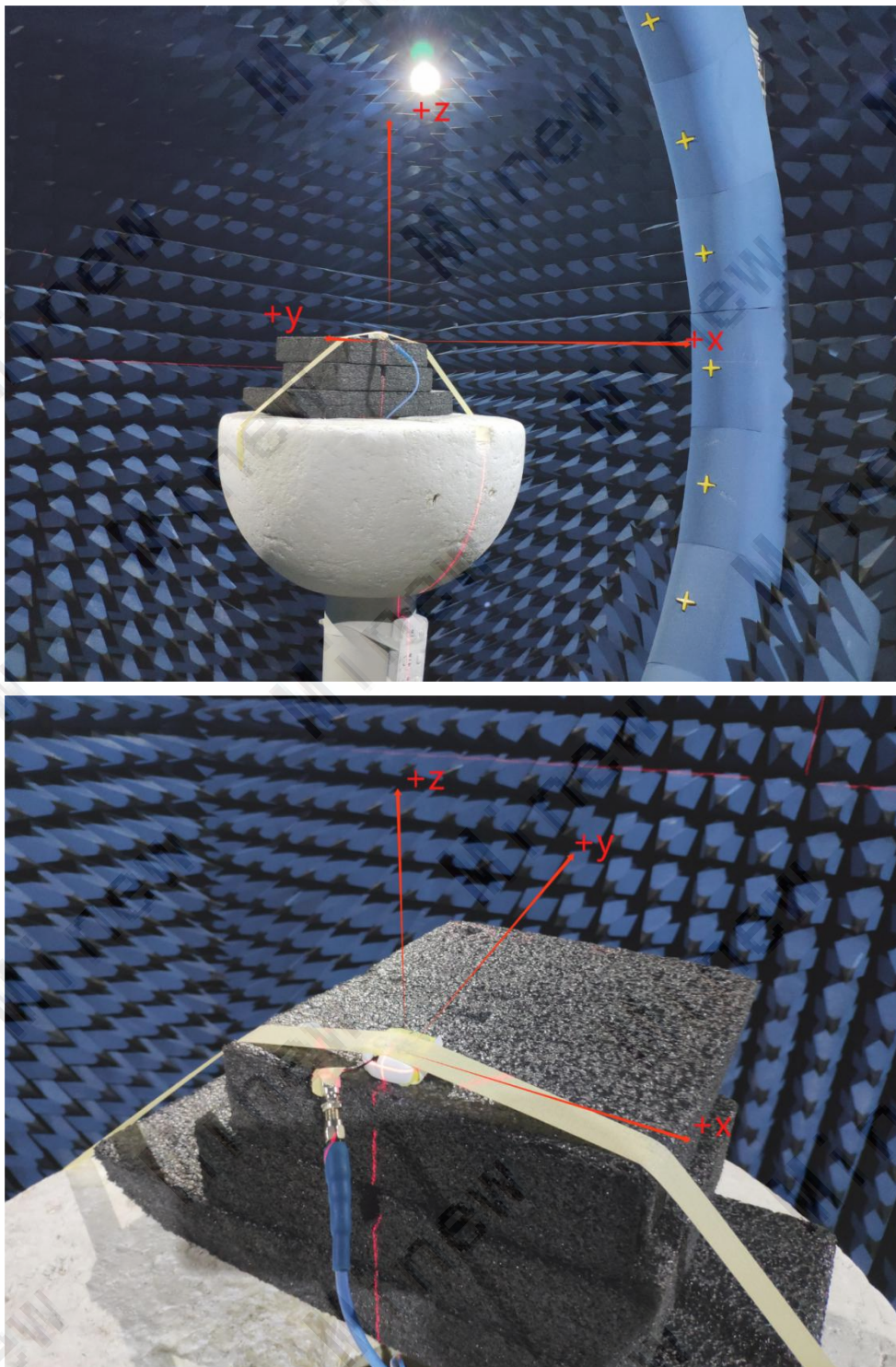
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	0.35
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	14.4*3
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

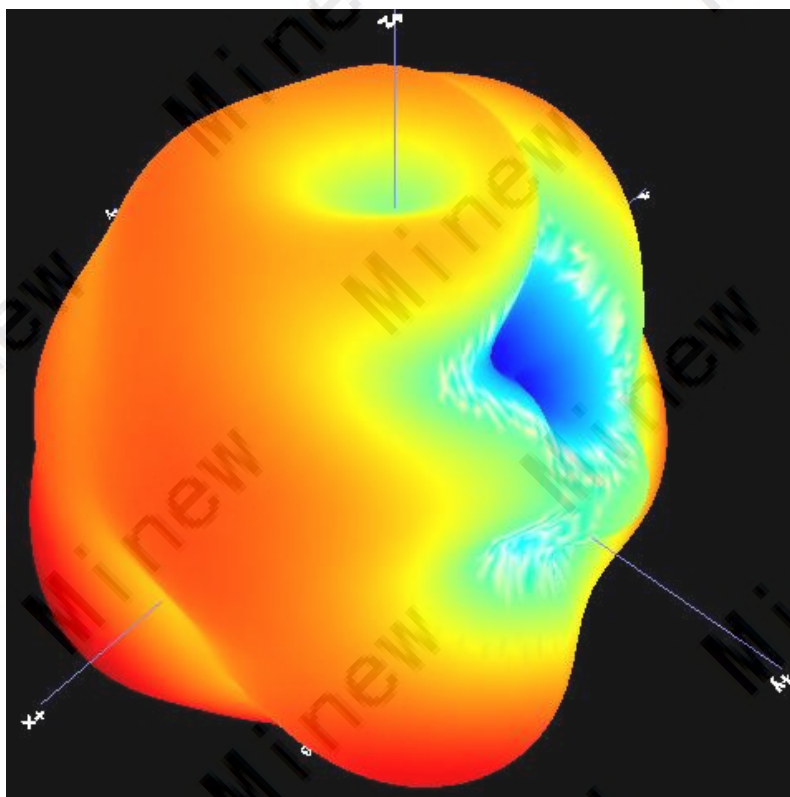
3.1 Test Environment



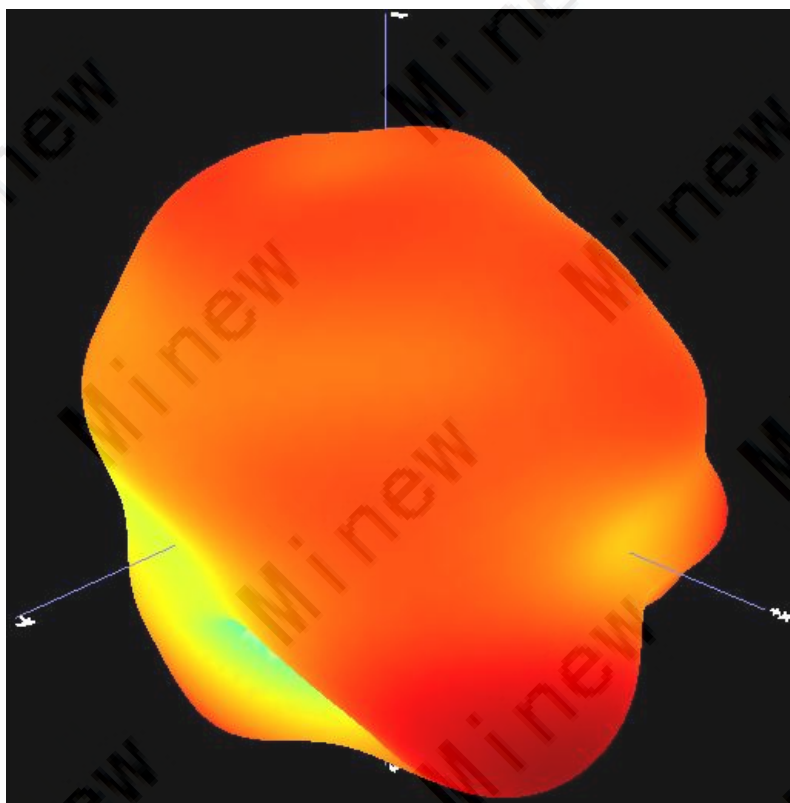
3.2 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency(%)	PeakGain (dBi)
2400MHz	-0.06	32%	0.35
2402MHz	-0.06	33%	
2404MHz	-0.08	33%	
2406MHz	-0.12	33%	
2408MHz	-0.10	33%	
2410MHz	-0.05	33%	
2412MHz	-0.02	33%	
2414MHz	0.02	33%	
2416MHz	-0.02	33%	
2418MHz	0.05	33%	
2420MHz	0.09	34%	
2422MHz	0.16	34%	
2424MHz	0.26	34%	
2426MHz	0.17	35%	
2428MHz	0.22	35%	
2430MHz	0.28	35%	
2432MHz	0.32	35%	
2434MHz	0.34	35%	
2436MHz	0.35	35%	
2438MHz	0.32	35%	
2440MHz	0.29	35%	
2442MHz	0.26	35%	
2444MHz	0.21	35%	
2446MHz	0.12	35%	
2448MHz	0.07	35%	
2450MHz	0.10	35%	
2452MHz	0.12	35%	
2454MHz	0.13	35%	
2456MHz	0.18	35%	
2458MHz	0.18	35%	
2460MHz	0.16	35%	
2462MHz	0.14	35%	
2464MHz	0.11	34%	
2466MHz	0.01	35%	
2468MHz	-0.04	35%	
2470MHz	-0.10	34%	
2472MHz	-0.19	34%	
2474MHz	-0.26	34%	
2476MHz	-0.35	34%	
2478MHz	-0.43	34%	
2480MHz	-0.48	33%	

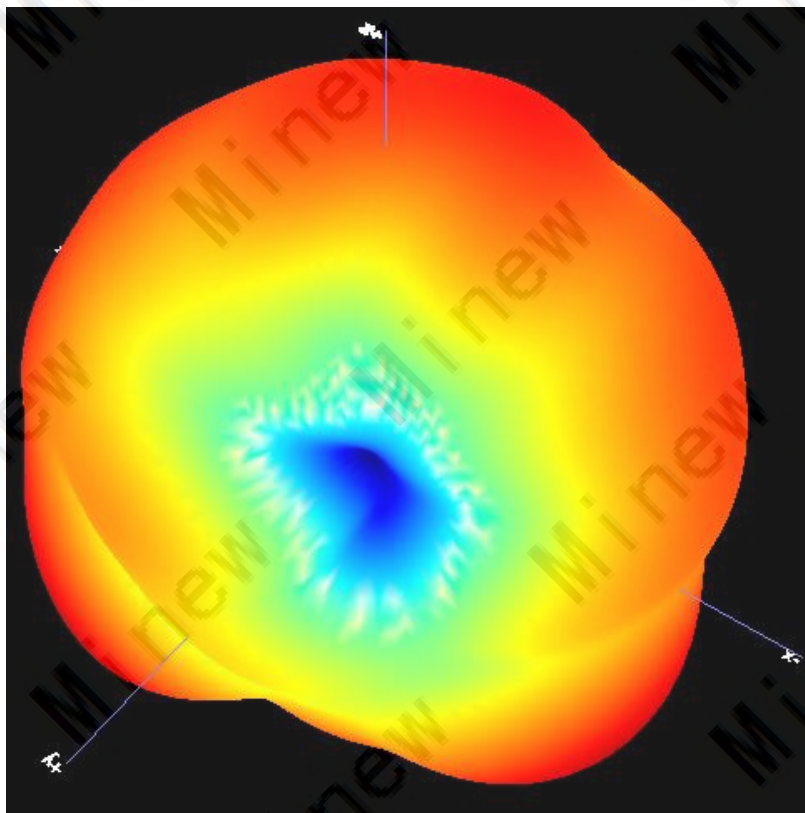
3.3 3D Polar Plot



2402MHz



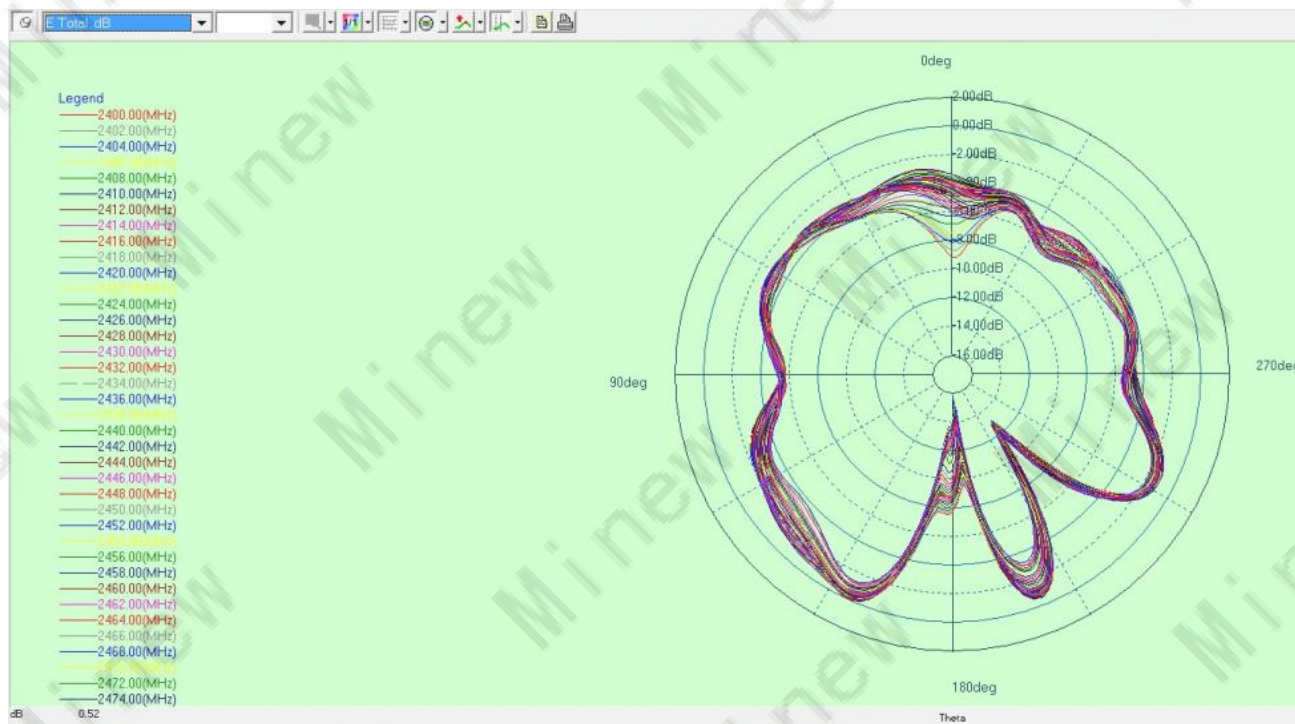
2440MHz



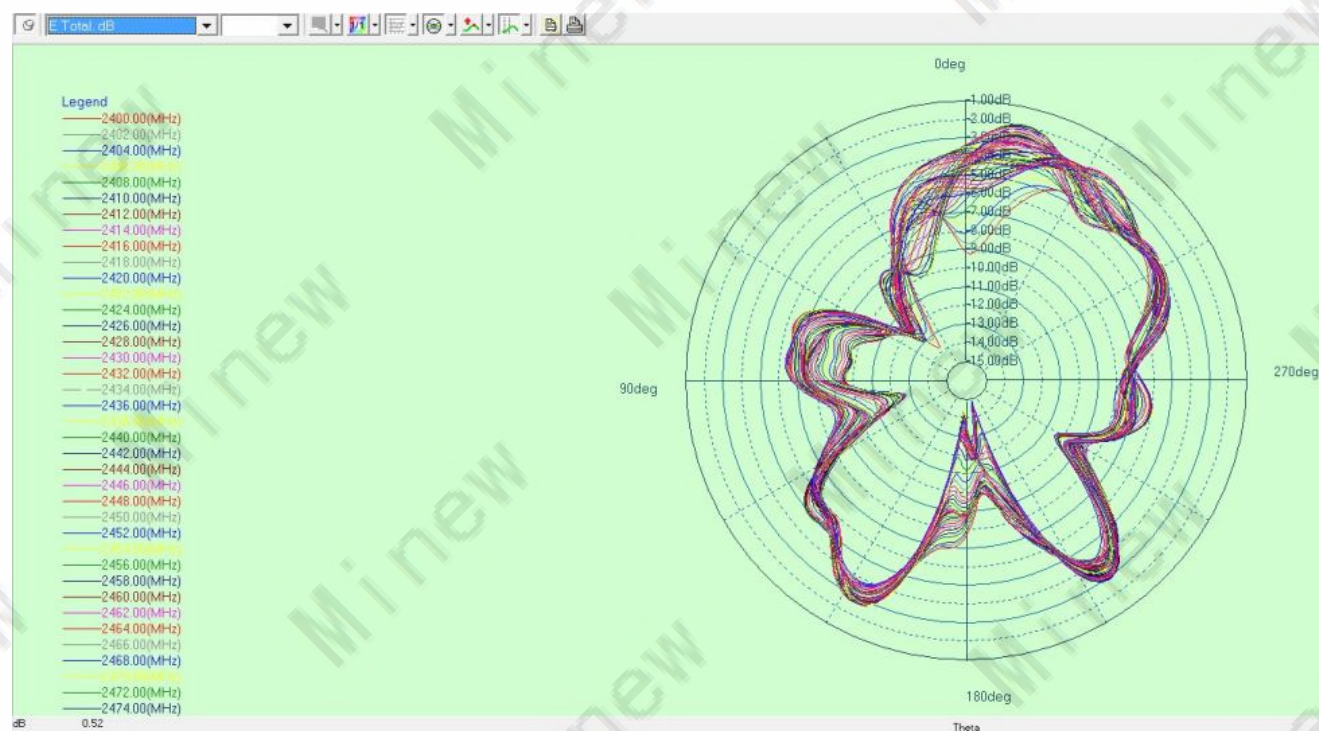
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, $\phi=0$



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



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

