



Antenna Coding: ANT-BBNCNC23021

Antenna Type: PCB onboard Antenna

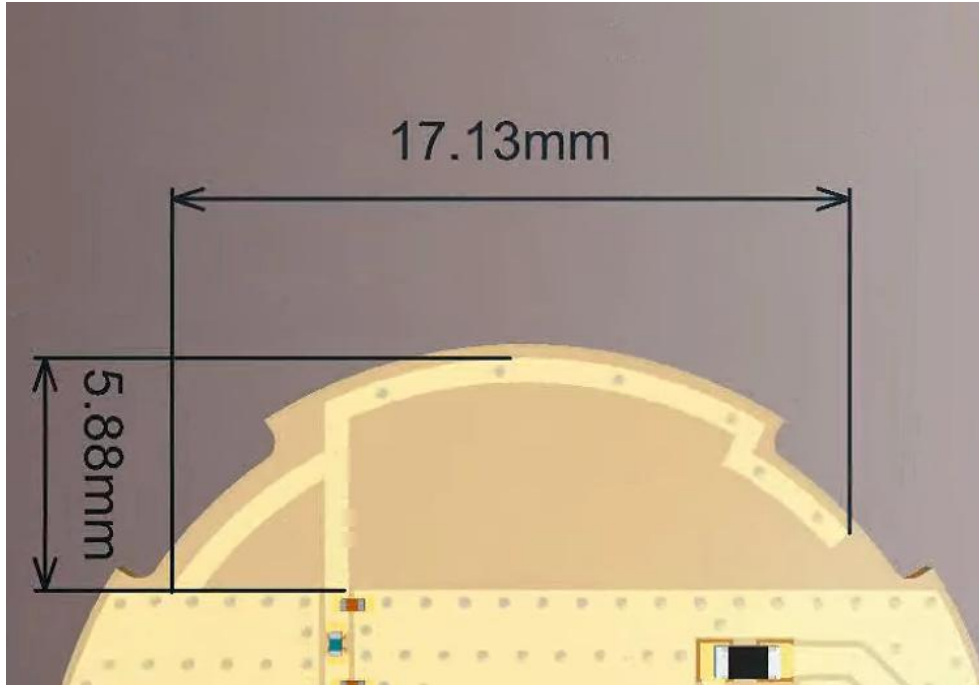
Model of the DUT: MWB01

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

1、Technical Specification

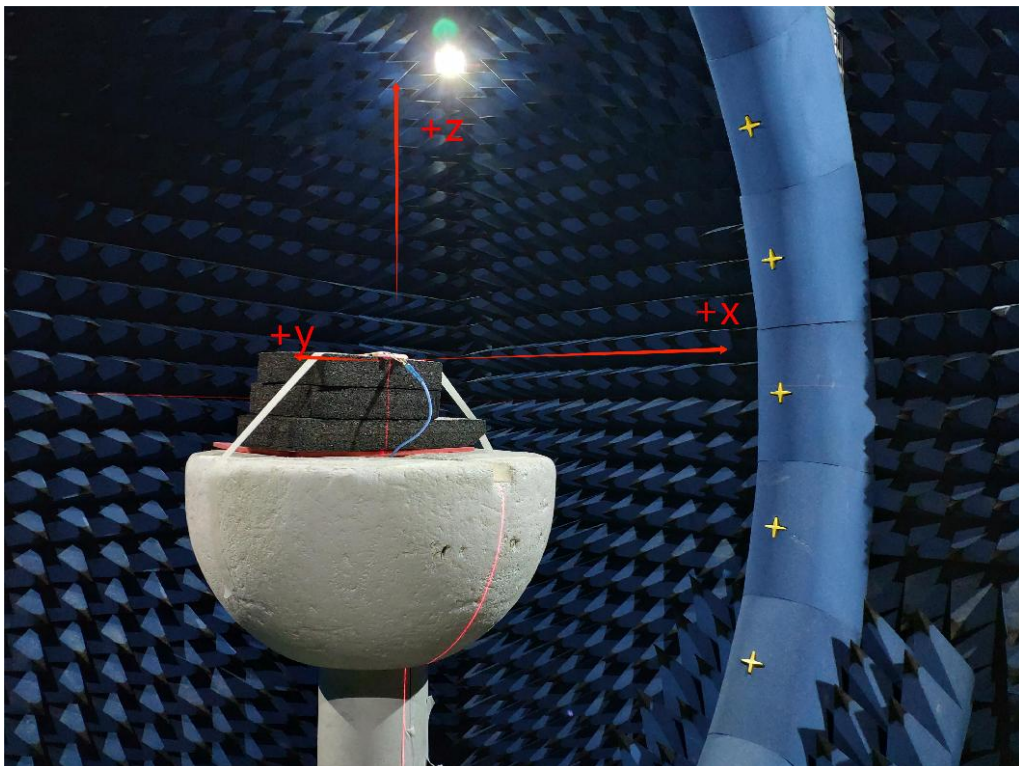
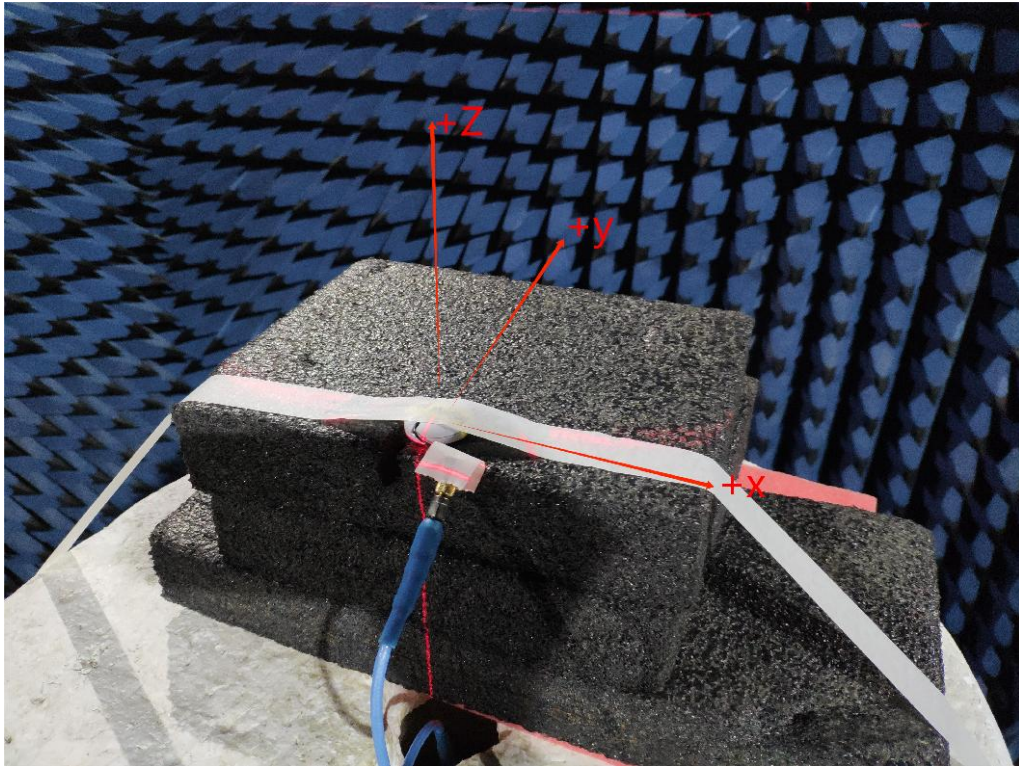
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	-3.91
2Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	17.13*5.88
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

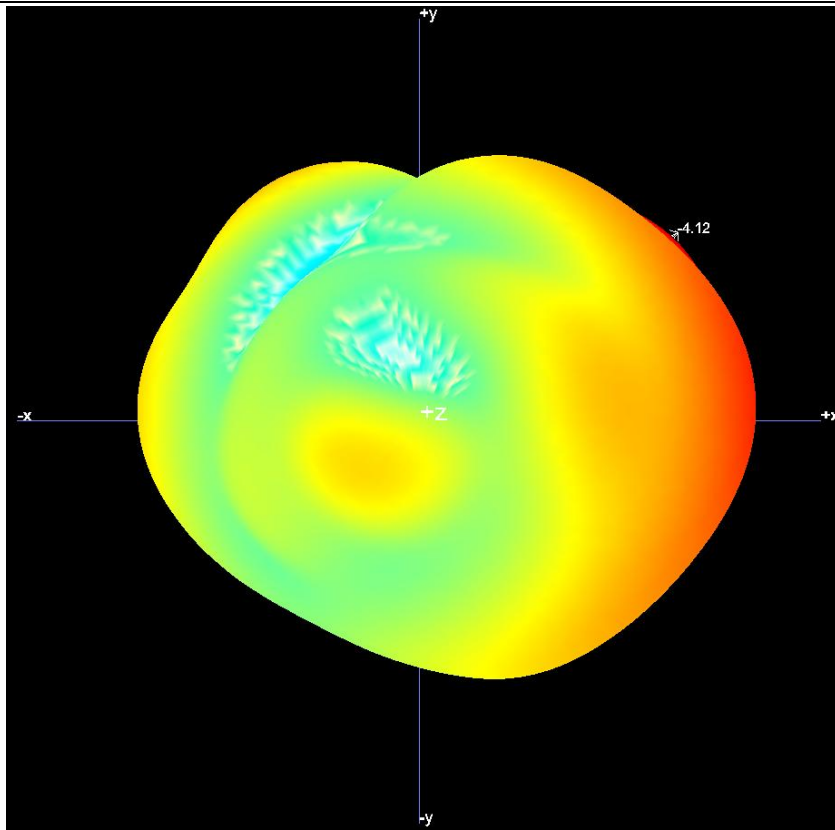
3.1 Test Environment



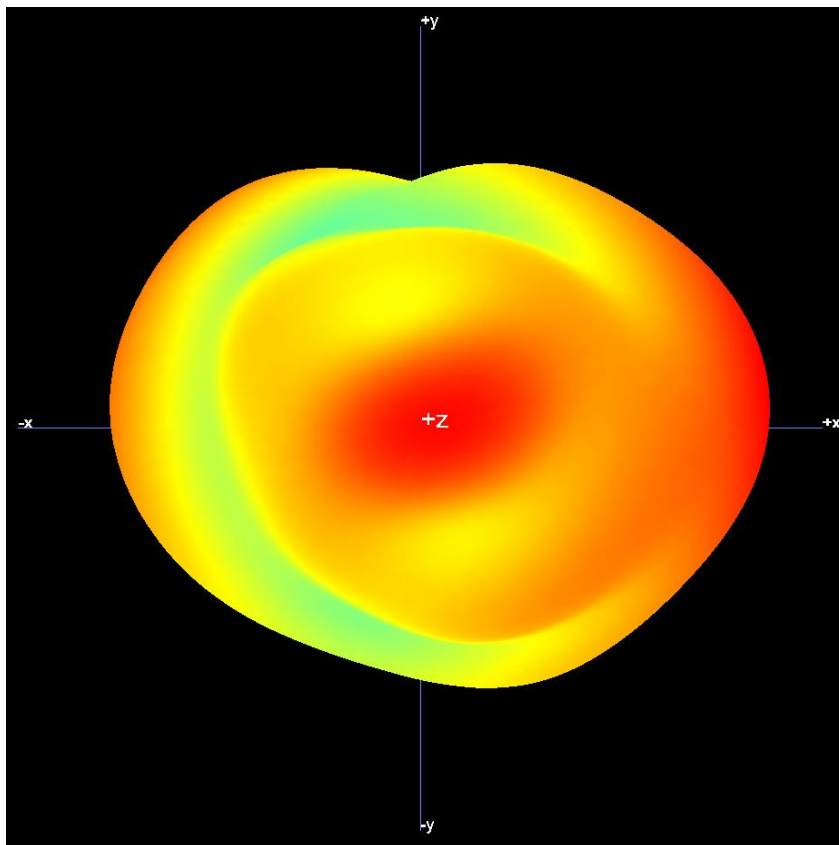
3.2 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency()	PeakGain(dBi)
2400MHz	-4.19	15%	-3.91
2402MHz	-4.12	15%	
2404MHz	-4.07	16%	
2406MHz	-4.05	16%	
2408MHz	-4.02	16%	
2410MHz	-3.98	16%	
2412MHz	-3.97	16%	
2414MHz	-3.99	16%	
2416MHz	-3.95	16%	
2418MHz	-3.98	16%	
2420MHz	-4.03	16%	
2422MHz	-4.06	16%	
2424MHz	-4.09	16%	
2426MHz	-4.04	17%	
2428MHz	-4.09	17%	
2430MHz	-4.14	17%	
2432MHz	-4.19	17%	
2434MHz	-4.22	17%	
2436MHz	-4.19	17%	
2438MHz	-4.22	17%	
2440MHz	-3.94	17%	
2442MHz	-3.91	17%	
2444MHz	-4.21	17%	
2446MHz	-4.18	17%	
2448MHz	-4.20	17%	
2450MHz	-4.22	16%	
2452MHz	-4.22	16%	
2454MHz	-4.23	16%	
2456MHz	-4.19	16%	
2458MHz	-4.21	16%	
2460MHz	-4.21	16%	
2462MHz	-4.22	16%	
2464MHz	-4.24	16%	
2466MHz	-4.35	16%	
2468MHz	-4.36	16%	
2470MHz	-4.39	16%	
2472MHz	-4.41	16%	
2474MHz	-4.42	16%	
2476MHz	-4.57	15%	
2478MHz	-4.60	15%	
2480MHz	-4.65	15%	

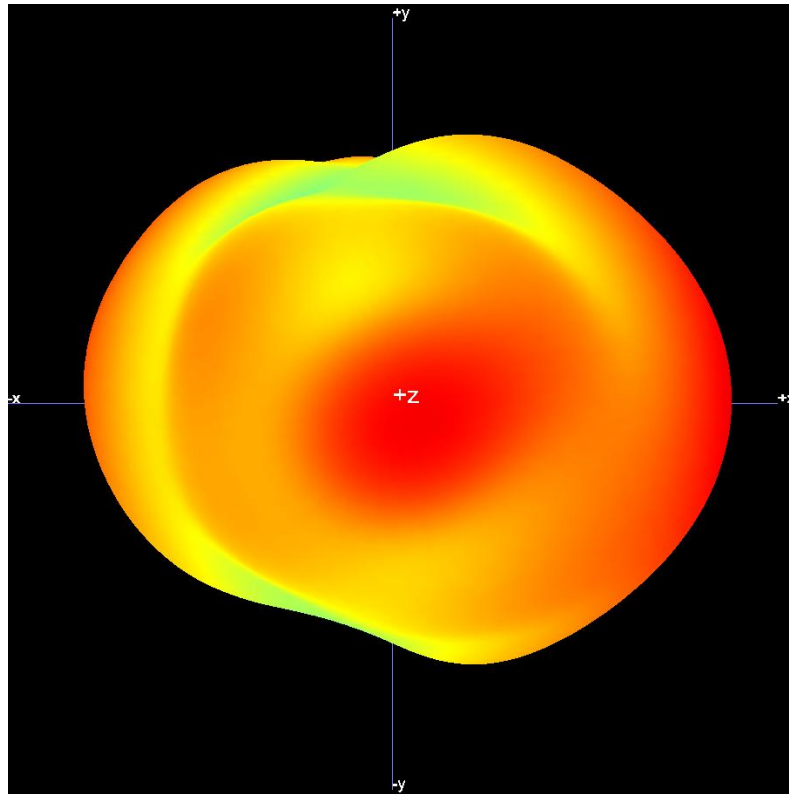
3.3 3D Polar Plot



2402MHz



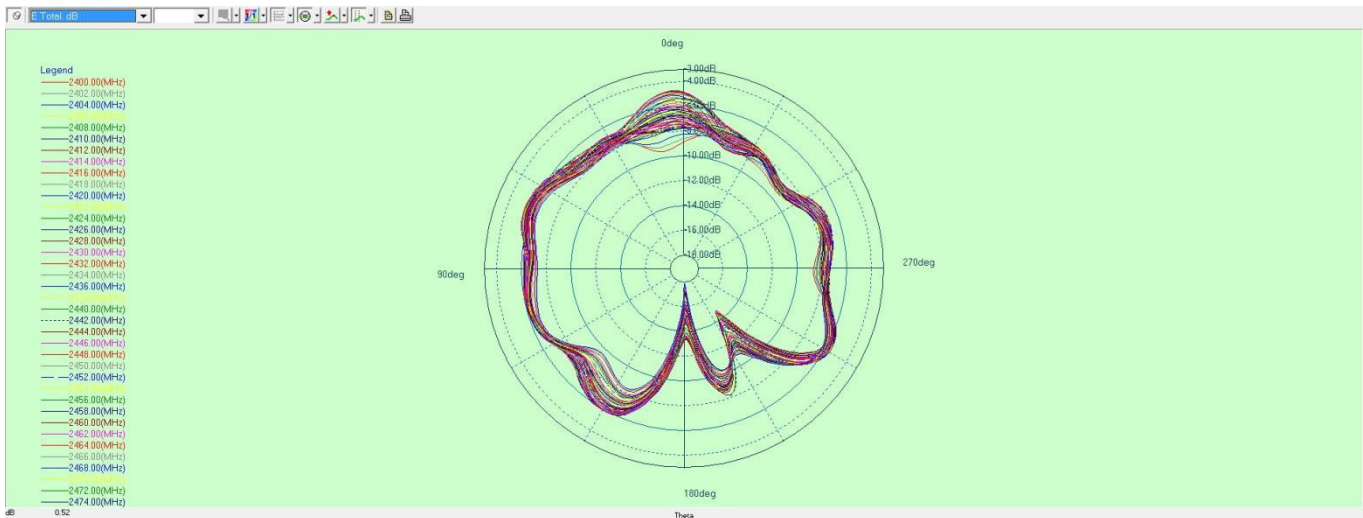
2440MHz



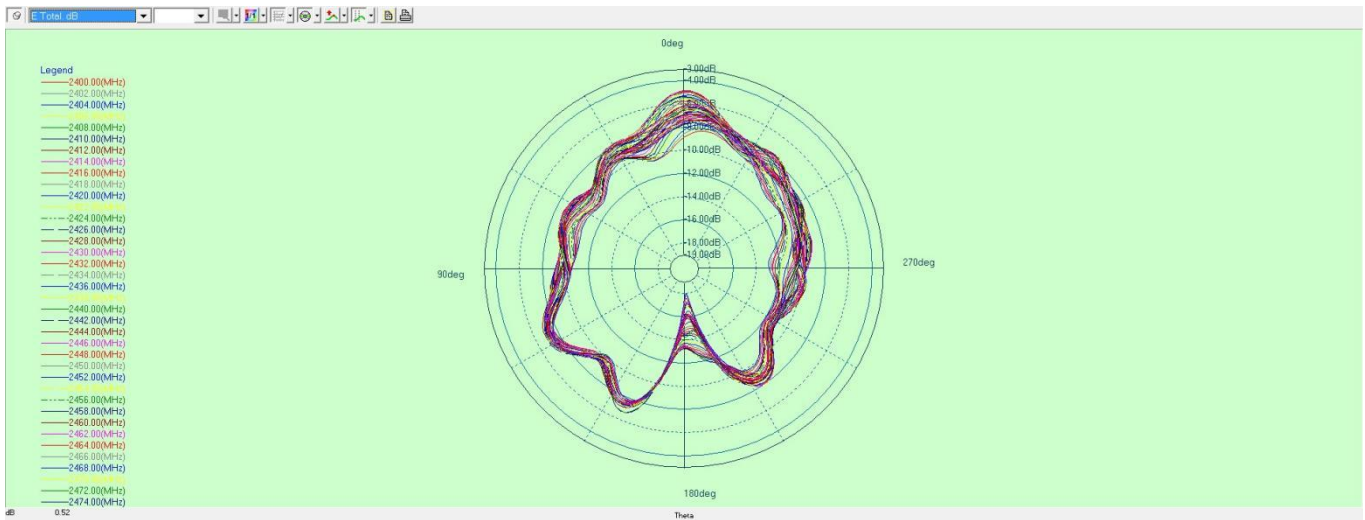
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



(2) E2, YZ Plane, phi=90°



(3) H, XY plane, theta=90°

