

Antenna Coding: ANT-BBNCNC23019

Antenna Type: PCB onboard Antenna

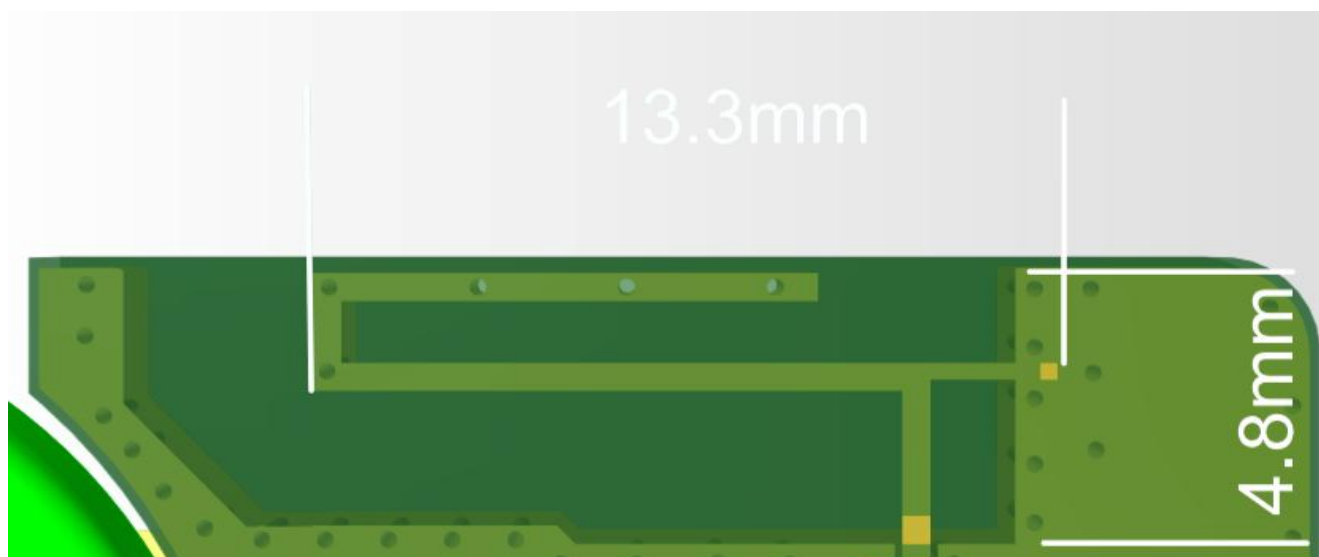
Model of the DUT: MST03

Antenna Manufacturer: Shenzhen Minew Technologies Co., Ltd.

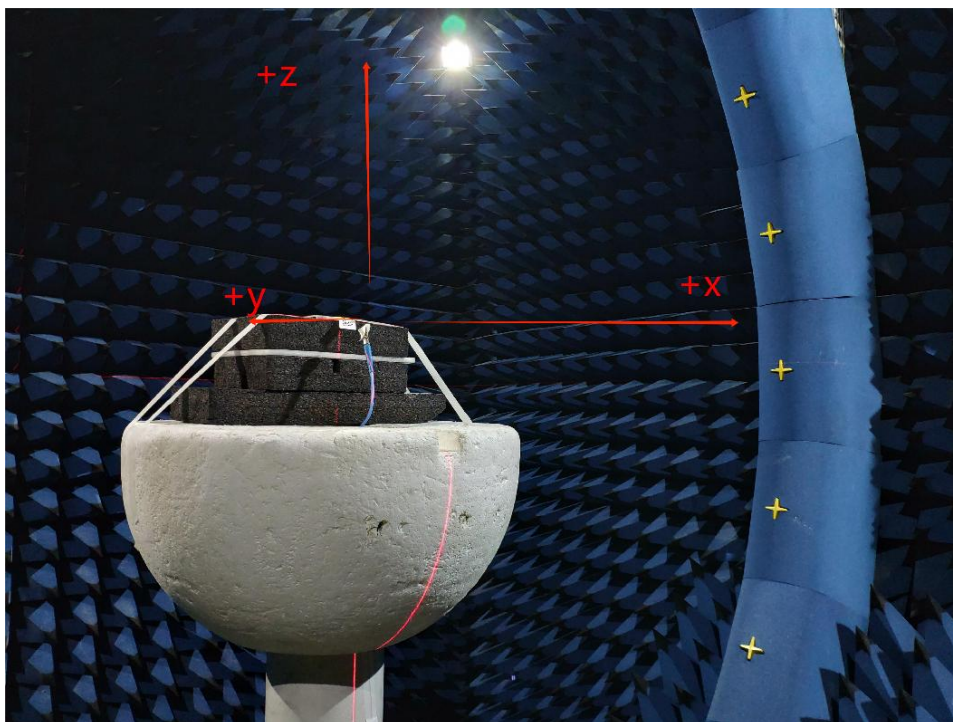
1、Technical Specification

Electrical Specifications	
Frequency Range (MHz)	2400-2500
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	-3.11
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	13.3*4.8
Radiator	Cuprum

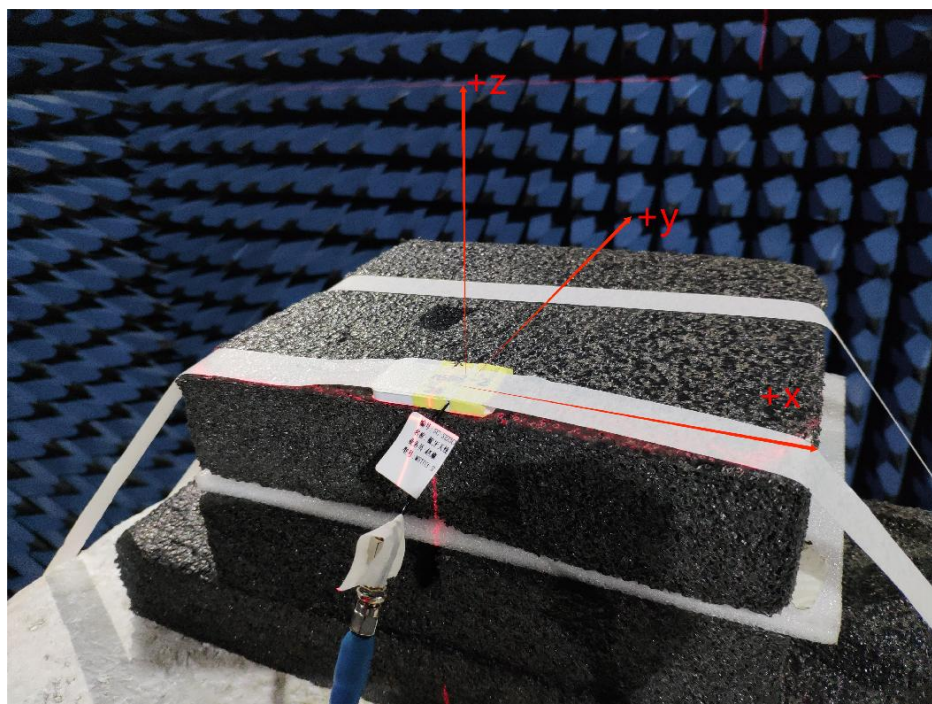
2、The shape and size of the antenna



3、 The result of the test



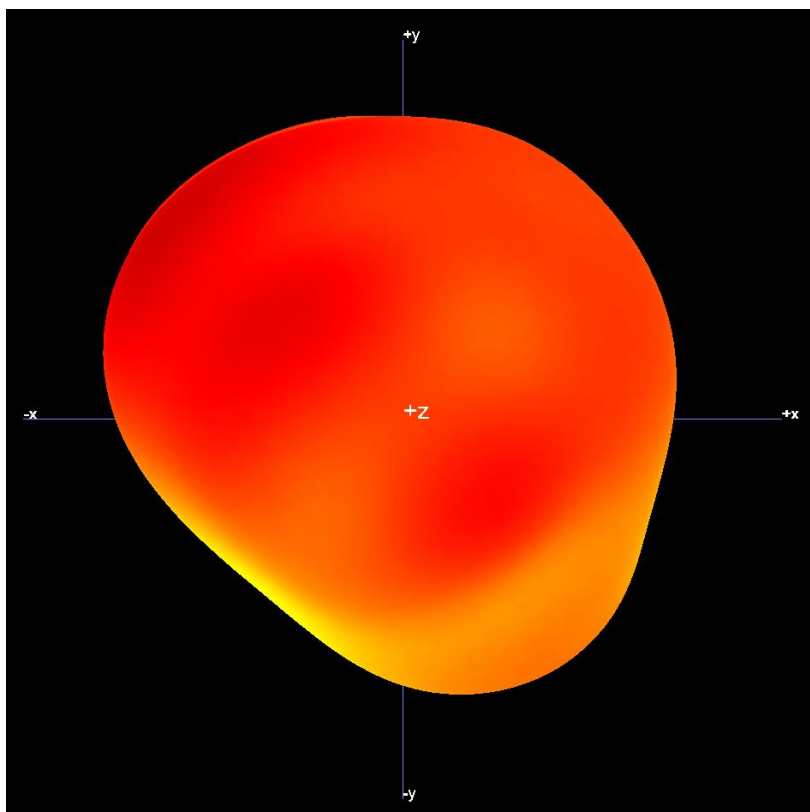
3.1 Test Environment



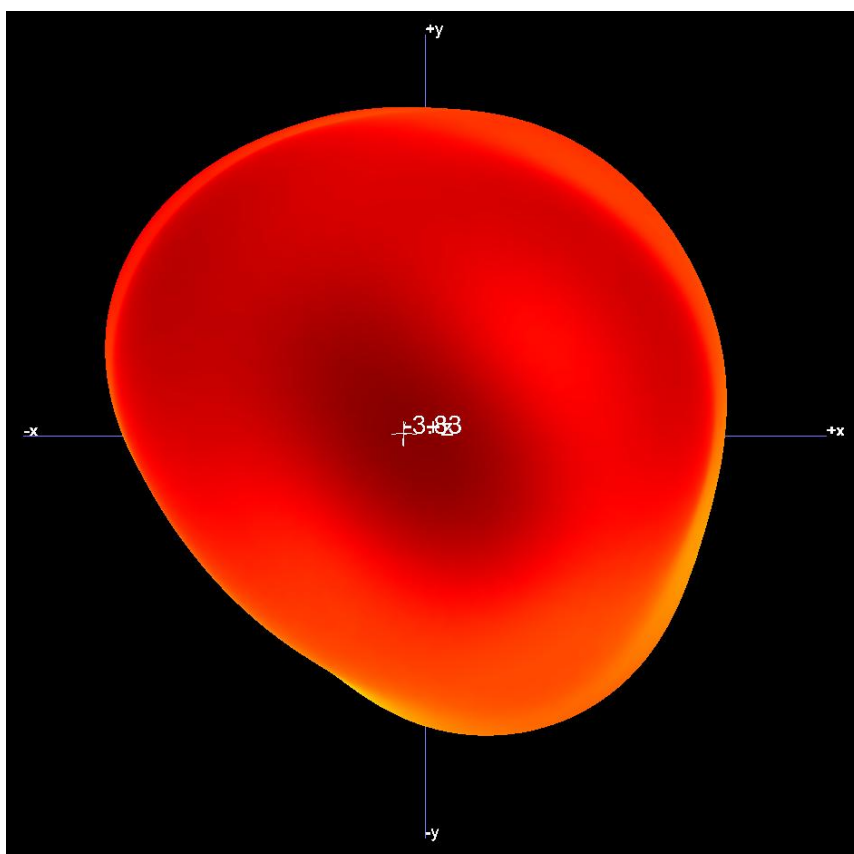
3.2 Gain and Efficiency

Frequency	Gain (dBi)	Efficiency()
2400MHz	-3.11	17%
2402MHz	-3.18	17%
2404MHz	-3.27	17%
2406MHz	-3.44	17%
2408MHz	-3.52	17%
2410MHz	-3.59	17%
2412MHz	-3.68	16%
2414MHz	-3.77	16%
2416MHz	-3.78	16%
2418MHz	-3.83	16%
2420MHz	-3.92	16%
2422MHz	-4.00	16%
2424MHz	-4.01	16%
2426MHz	-3.88	16%
2428MHz	-3.89	16%
2430MHz	-3.81	16%
2432MHz	-3.77	16%
2434MHz	-3.76	16%
2436MHz	-3.73	16%
2438MHz	-3.76	16%
2440MHz	-3.83	16%
2442MHz	-3.94	16%
2444MHz	-3.98	16%
2446MHz	-3.89	15%
2448MHz	-3.95	15%
2450MHz	-3.99	15%
2452MHz	-4.03	15%
2454MHz	-4.12	15%
2456MHz	-4.24	15%
2458MHz	-4.28	15%
2460MHz	-4.32	15%
2462MHz	-4.37	15%
2464MHz	-4.40	14%
2466MHz	-4.49	14%
2468MHz	-4.49	14%
2470MHz	-4.54	14%
2472MHz	-4.56	14%
2474MHz	-4.53	14%
2476MHz	-4.56	14%
2478MHz	-4.58	14%
2480MHz	-4.59	14%
2482MHz	-4.62	14%
2484MHz	-4.64	14%
2486MHz	-4.51	14%
2488MHz	-4.60	14%
2490MHz	-4.66	13%
2492MHz	-4.70	13%
2494MHz	-4.77	13%
2496MHz	-4.92	13%
2498MHz	-4.95	13%
2500MHz	-4.95	13%

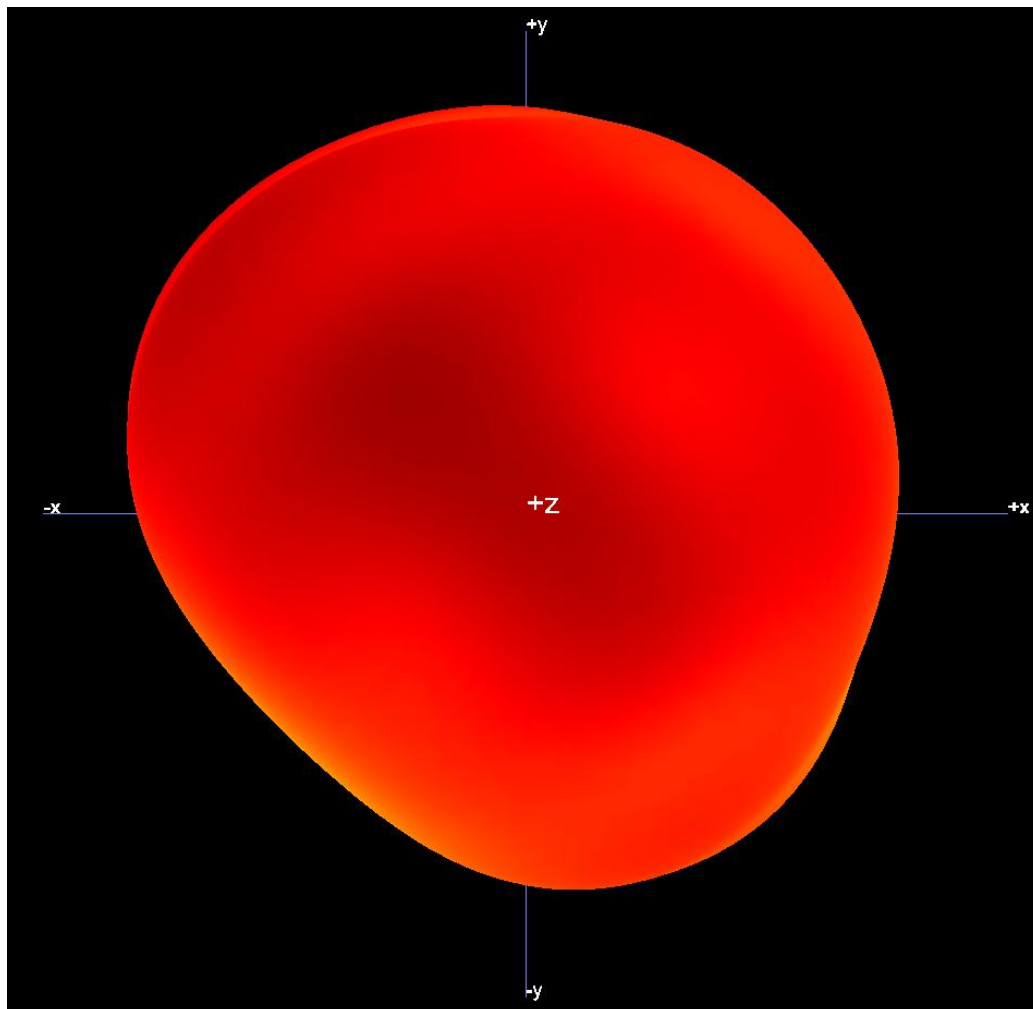
3.3 3D Polar Plot



2402MHz



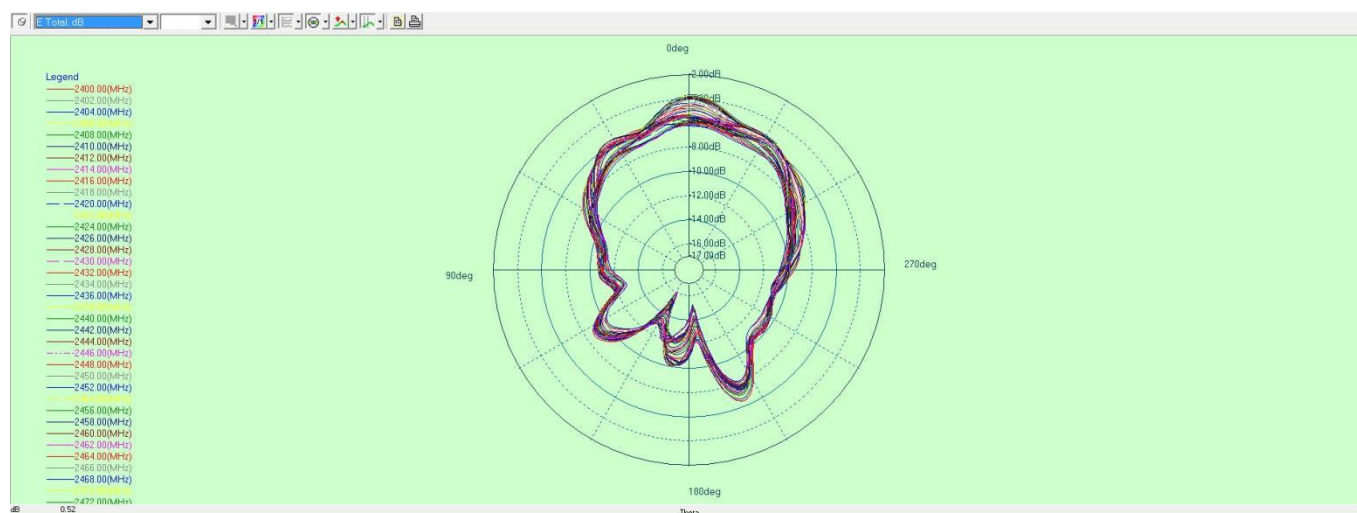
2440MHz



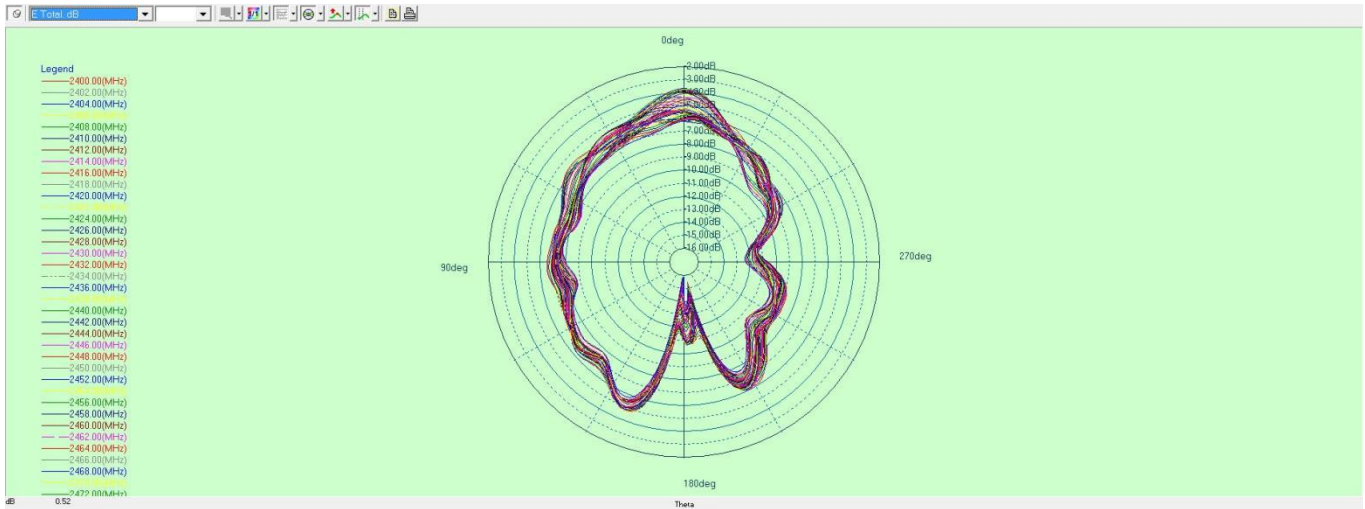
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



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



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

