

Antenna Coding: ANT-BTNCNC23004

Antenna Type: Patch Antenna

Model of the DUT: KHWPO300F001

Antenna Manufacturer: Johanson Technology

1、Technical Specification

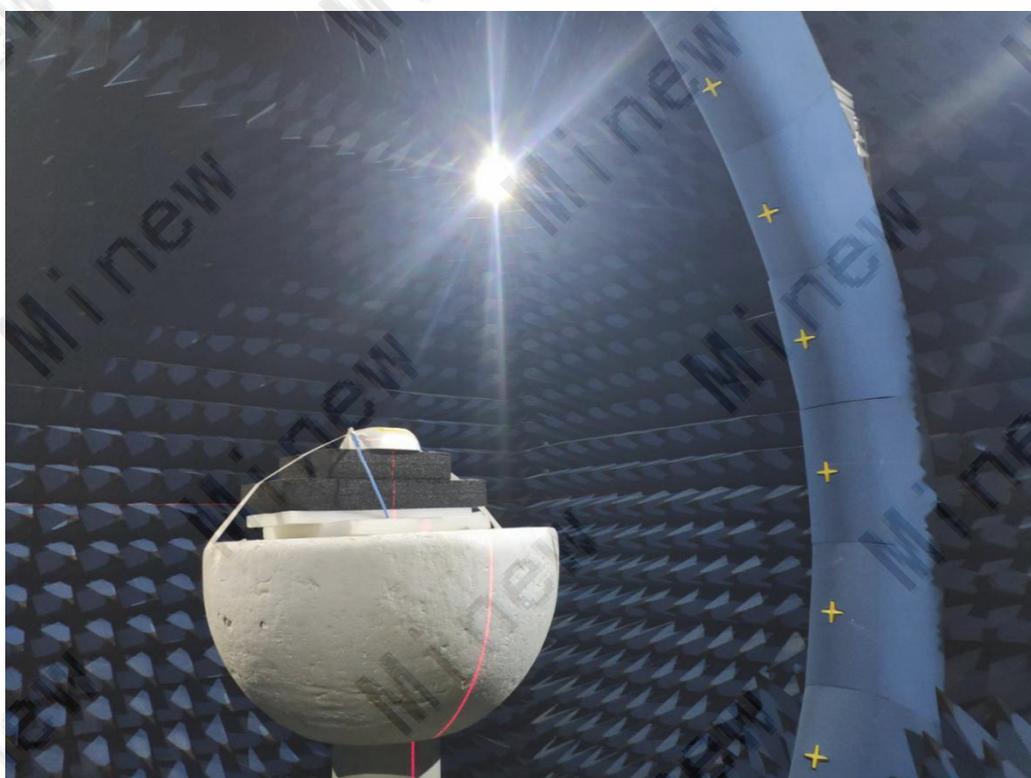
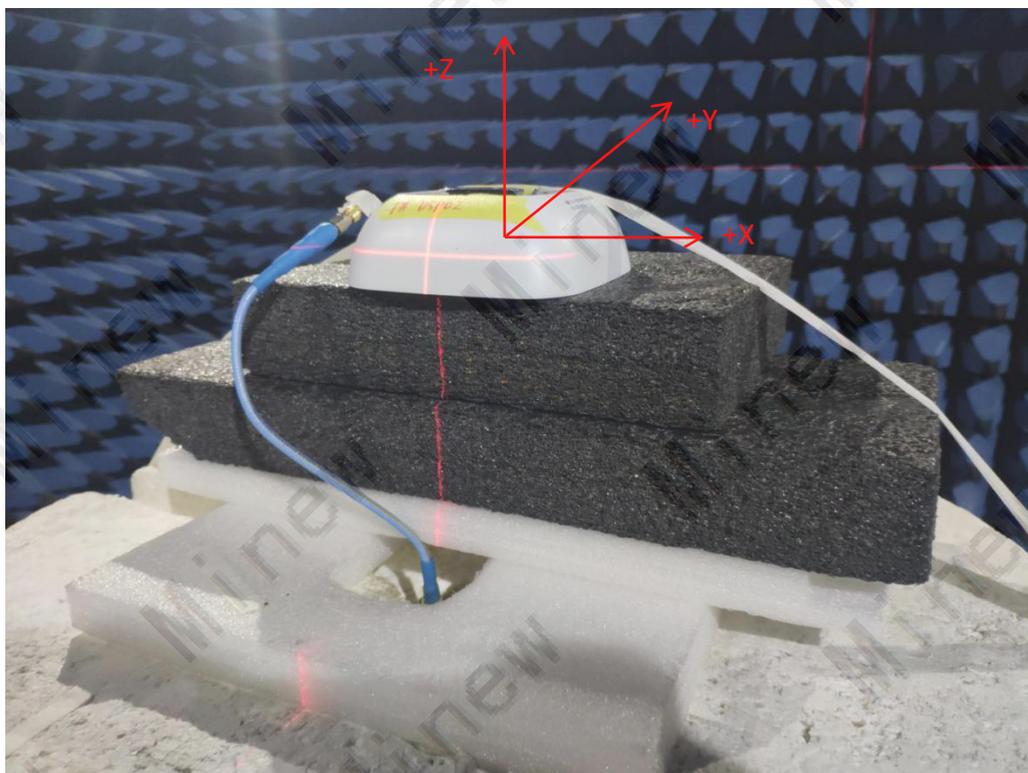
Electrical Specifications	
Frequency Range (MHz)	2400-2480
Input Impedance (Ω)	50
Return Loss (dB)	<-10
VSWR	<2
Peak Gain (dBi)	0.78
Polarization Type	Linear polarization
Mechanical Specifications	
Antenna Size (mm)	12*12*4
Radiator	Cuprum

2、The shape and size of the antenna



3、 The result of the test

3.1 Test Environment

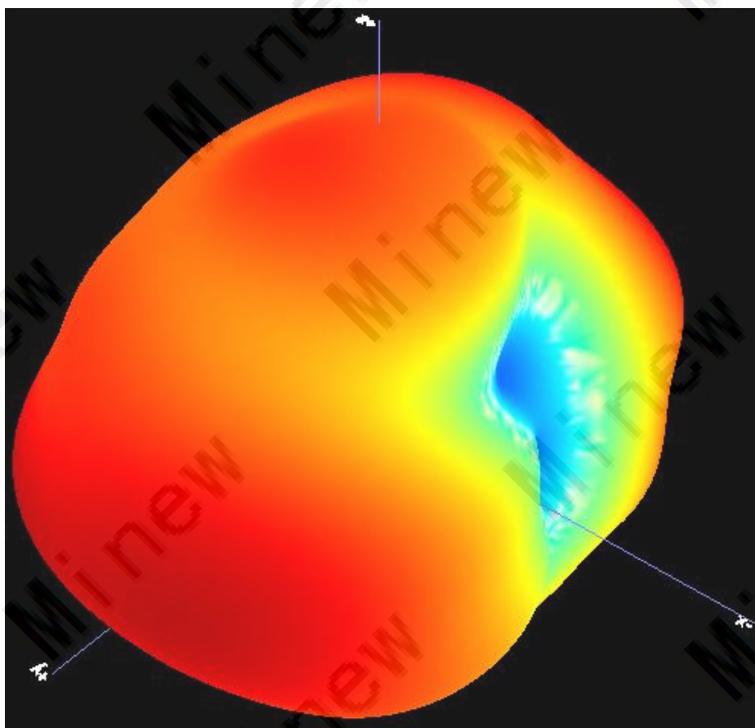




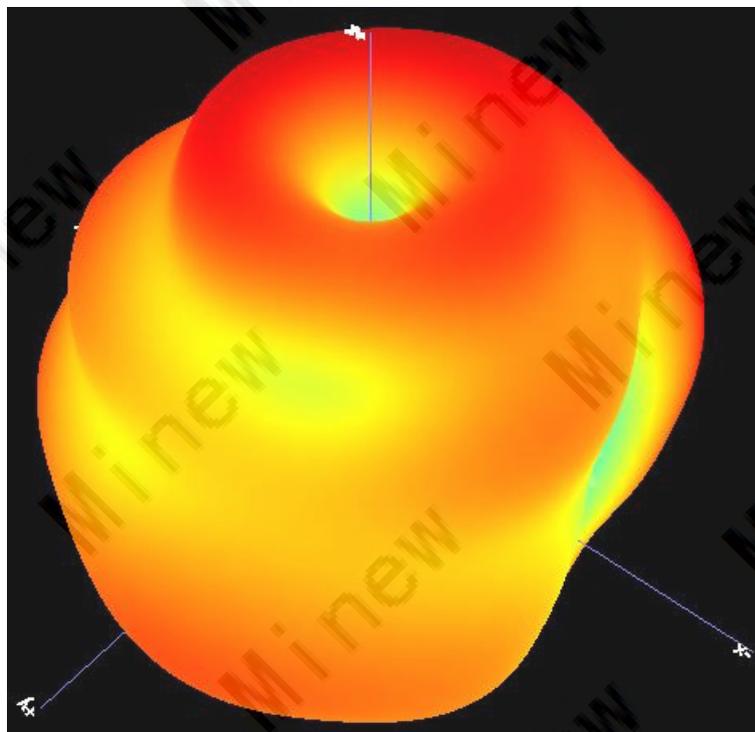
3.2 Gain and Efficiency

EUT型号 备注	1#-DSP02 1#		
Frequency	Gain (dBi)	Efficiency(%)	PeakGain
2400MHz	-1.06	41%	0.78
2402MHz	-0.84	42%	
2404MHz	-0.77	43%	
2406MHz	-0.70	43%	
2408MHz	-0.66	43%	
2410MHz	-0.71	43%	
2412MHz	-0.74	43%	
2414MHz	-0.77	43%	
2416MHz	-0.91	42%	
2418MHz	-0.94	42%	
2420MHz	-0.98	42%	
2422MHz	-0.99	41%	
2424MHz	-0.96	41%	
2426MHz	-0.68	41%	
2428MHz	-0.67	41%	
2430MHz	-0.68	40%	
2432MHz	-0.71	40%	
2434MHz	-0.73	39%	
2436MHz	-0.52	38%	
2438MHz	-0.60	38%	
2440MHz	-0.68	37%	
2442MHz	-0.75	36%	
2444MHz	-0.82	35%	
2446MHz	-0.85	35%	
2448MHz	-0.78	35%	
2450MHz	-0.68	35%	
2452MHz	-0.59	35%	
2454MHz	-0.50	35%	
2456MHz	-0.38	36%	
2458MHz	-0.24	37%	
2460MHz	-0.13	37%	
2462MHz	-0.04	38%	
2464MHz	0.07	39%	
2466MHz	0.22	40%	
2468MHz	0.43	41%	
2470MHz	0.56	41%	
2472MHz	0.65	42%	
2474MHz	0.73	42%	
2476MHz	0.78	43%	
2478MHz	0.71	42%	
2480MHz	0.63	41%	

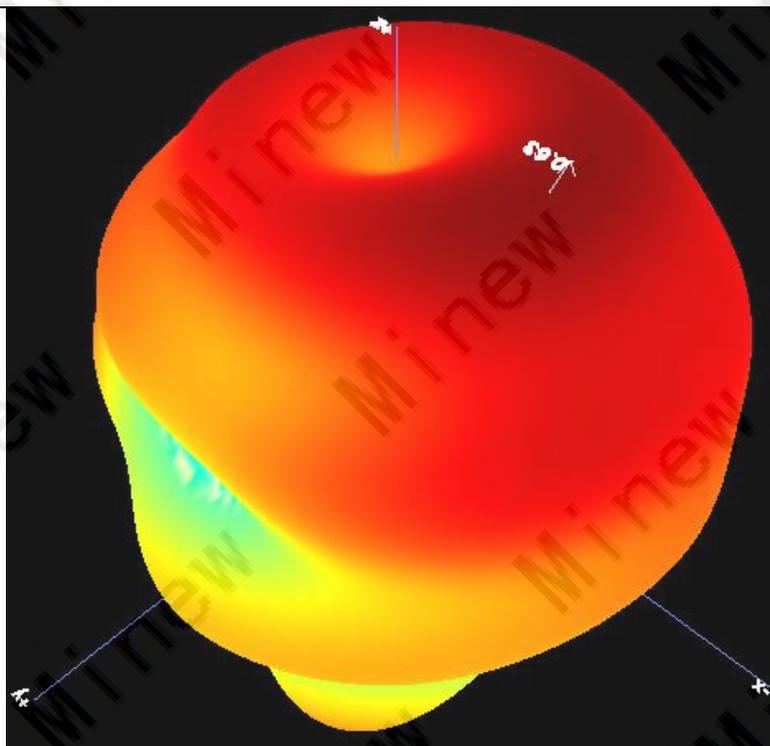
3.3 3D Polar Plot



2402MHz



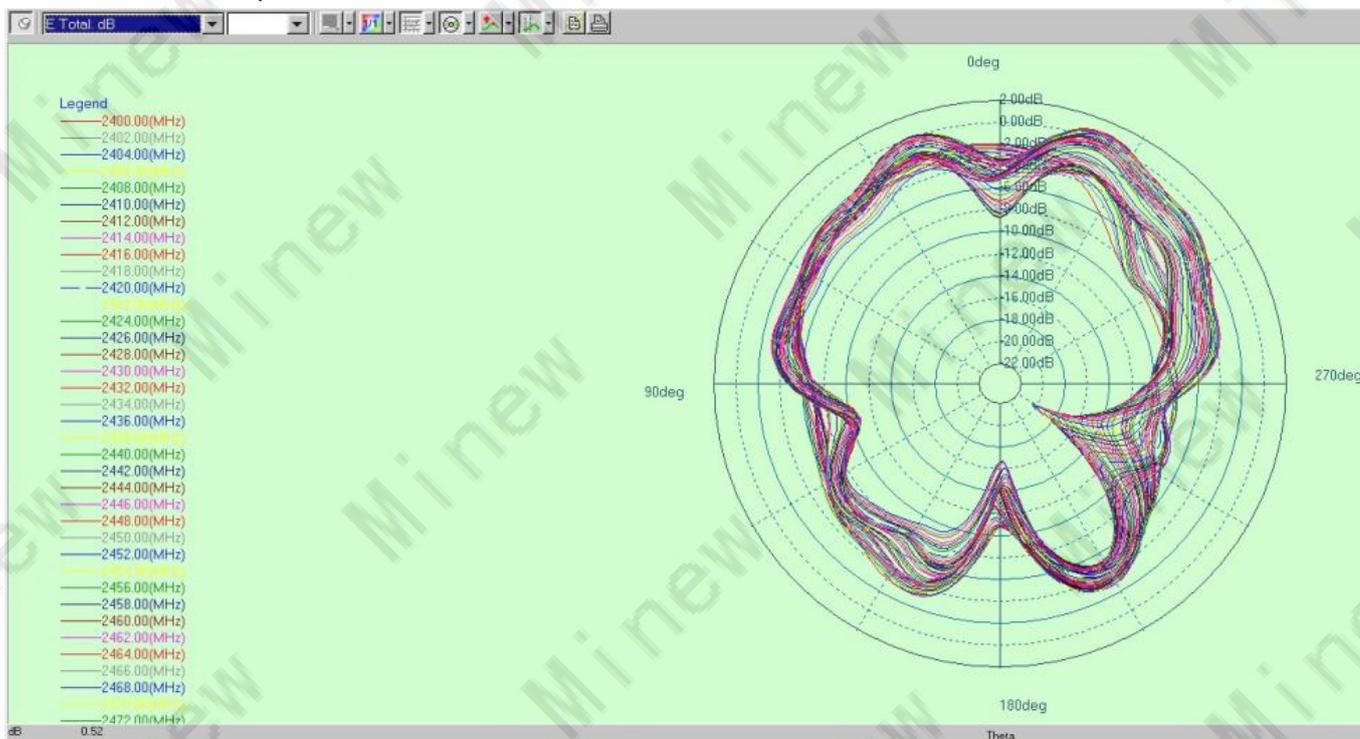
2440MHz



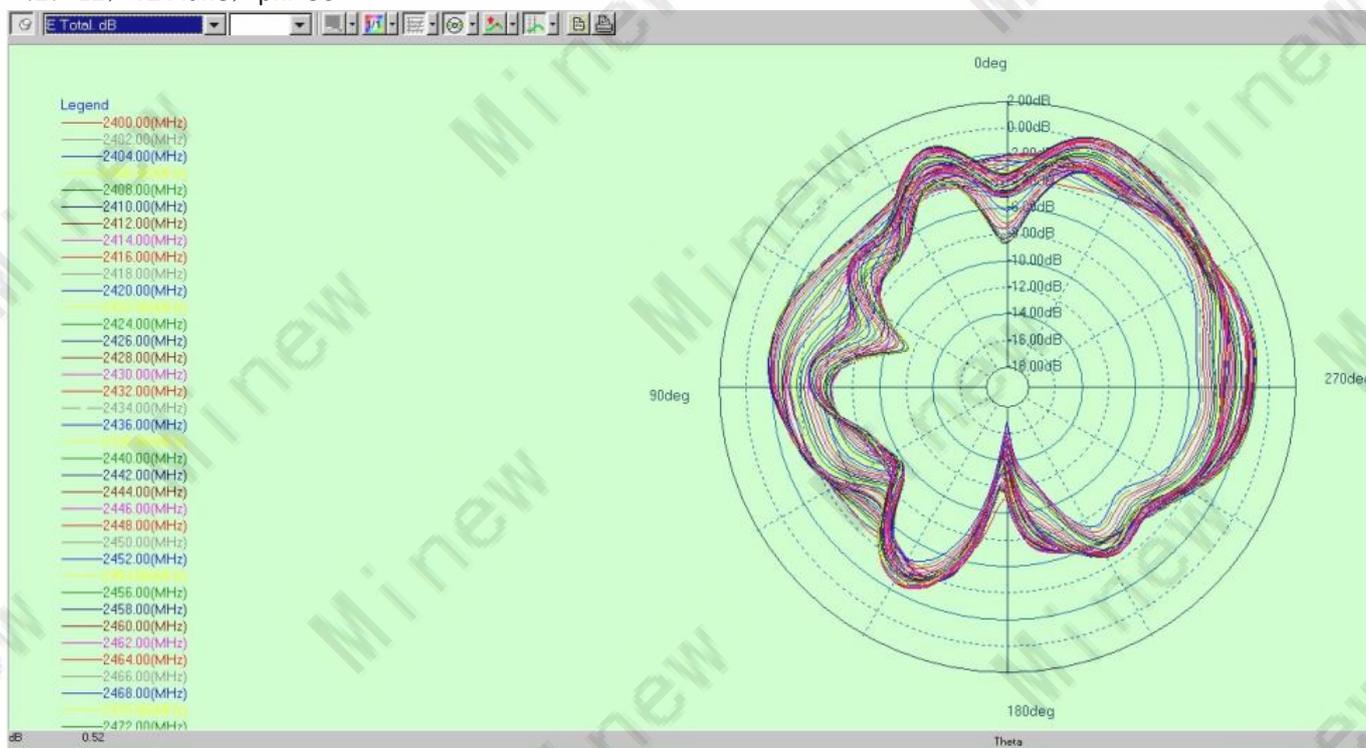
2480MHz

3.4 2D Radiation Pattern

(1) E1, XZ Plane, phi=0



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



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

