



天线型号 (Antenna Version): ANT-BBNCNC2112

产品型号 (Model of the DUT): RS075

PCB 编号及版本 (PCB number and version): MS117F6_V1.3

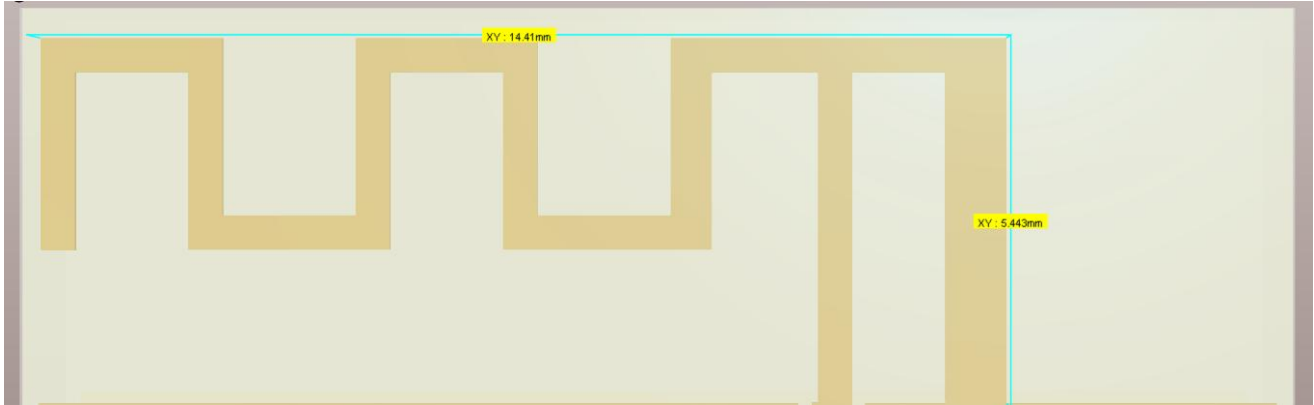
责任硬件工程师 (Hardware Engineer): 窦淼全

测试日期 (Test Data): 2022.6.21

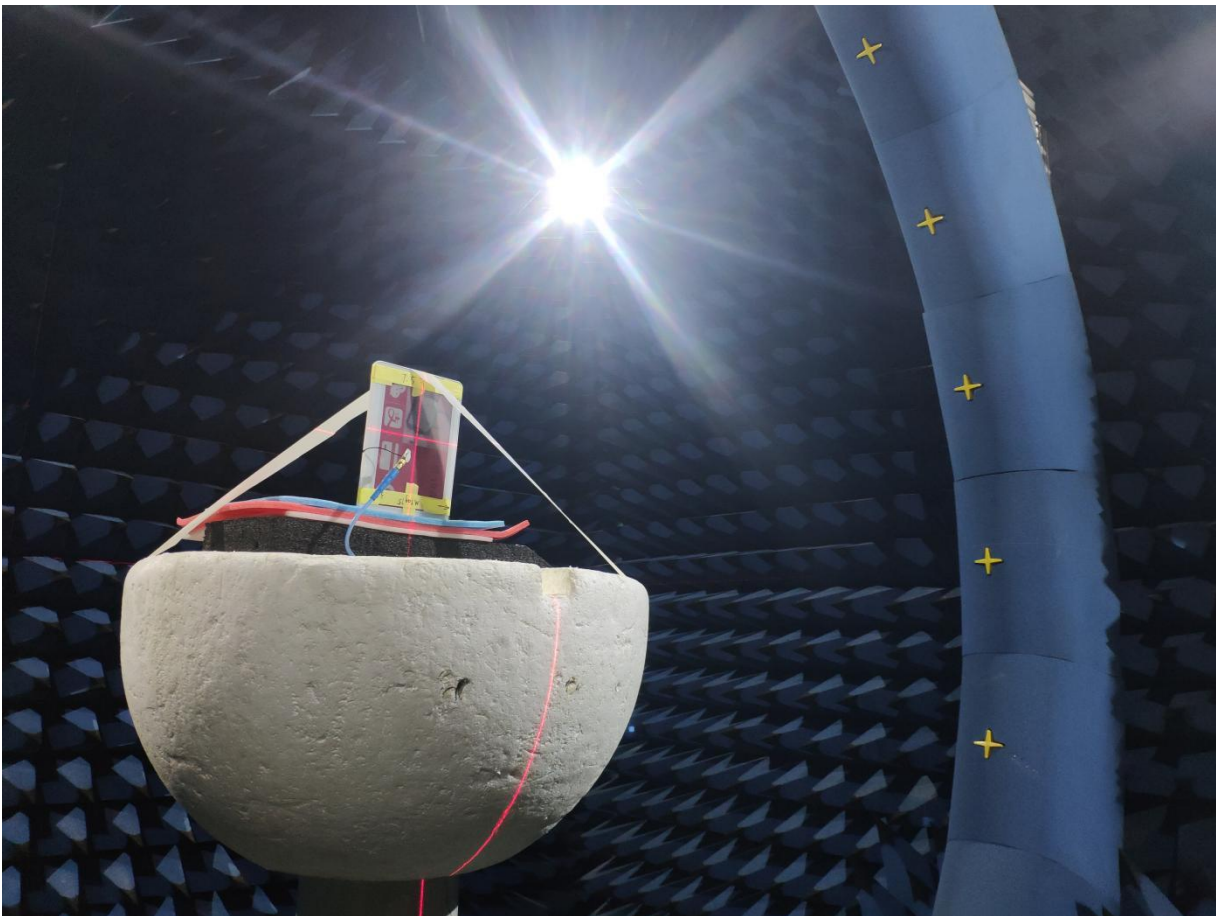
1、技术指标 (Technical Specification)

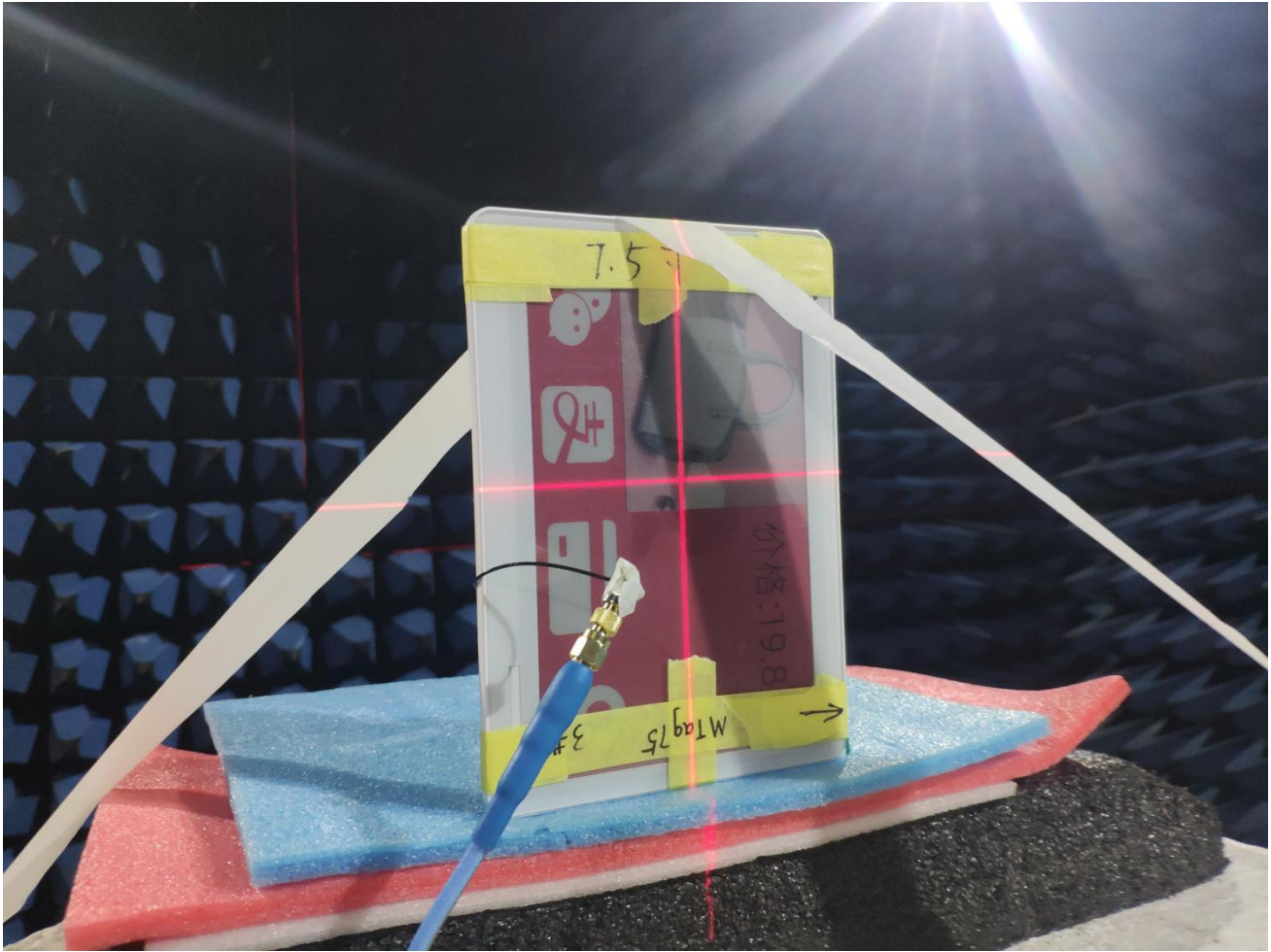
电性能指标 Electrical Specifications	
频率范围 Frequency Range (MHz)	2400-2480
频带宽度 Bandwidth (-10dB) (MHz)	40MHZ
输入阻抗 Input Impedance (Ω)	50
回波损耗 Return Loss (dB)	<-9.7
电压驻波比 VSWR	<1.9
增益 Gain (@2.44GHz) (dBi)	-0.86
峰值增益 (Peak Gain) (dBi)	-0.26
极化形式 Polarization Type	线极化 Linear polarization
雷电保护 Lightning Protection	直流接地 (DC grounding)
功率容量 Power Capacity (mW)	1000
机械指标 Mechanical Specifications	
天线尺寸 Antenna Size (mm)	5.4mm*14.4mm
辐射体 Radiator	铜 Cuprum
连接器型号 Connect Type	无
工作温度 Working Temperature ($^{\circ}\text{C}$)	-20~50
存储温度 Storage Temperature ($^{\circ}\text{C}$)	-40~65

2、天线外形和尺寸 (the shape and size of the antenna)



3、测试结果 (The result of the test)





3.1 增益和效率 (Gain and Efficiency)

测试顺序编号	3#	
EUT型号	3#	
备注	Mtag75	
Frequency	E Total. dB(dBi)	Efficiency()
2400MHz	-0.26	30%
2402MHz	-0.35	30%
2404MHz	-0.44	30%
2406MHz	-0.44	29%
2408MHz	-0.58	29%
2410MHz	-0.66	29%
2412MHz	-0.72	29%
2414MHz	-0.69	29%
2416MHz	-0.74	29%
2418MHz	-0.72	29%
2420MHz	-0.79	28%
2422MHz	-0.77	28%
2424MHz	-0.74	28%
2426MHz	-0.88	28%
2428MHz	-0.88	28%
2430MHz	-0.87	28%
2432MHz	-0.86	27%
2434MHz	-0.86	27%
2436MHz	-0.84	27%
2438MHz	-0.87	26%

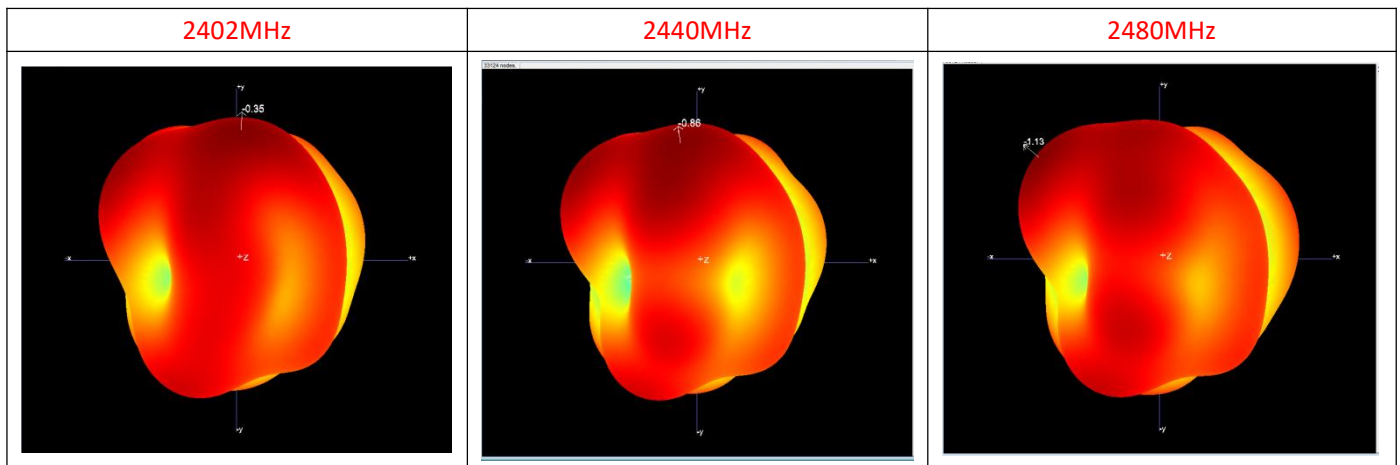


2440MHz	-0.86	26%
2442MHz	-0.88	26%
2444MHz	-0.91	26%
2446MHz	-1.01	26%
2448MHz	-1.01	26%
2450MHz	-1.02	26%
2452MHz	-1.03	26%
2454MHz	-1.04	26%
2456MHz	-1.01	25%
2458MHz	-1.22	25%
2460MHz	-1.25	25%
2462MHz	-1.25	25%
2464MHz	-1.24	25%
2466MHz	-1.21	25%
2468MHz	-1.19	25%
2470MHz	-1.19	25%
2472MHz	-1.19	25%
2474MHz	-1.16	24%
2476MHz	-1.13	24%
2478MHz	-1.14	24%
2480MHz	-1.13	24%
2482MHz	-1.12	23%

2484MHz	-1.12	23%
2486MHz	-1.11	23%
2488MHz	-1.11	23%
2490MHz	-1.12	23%
2492MHz	-1.12	23%
2494MHz	-1.14	22%
2496MHz	-1.19	22%
2498MHz	-1.21	22%
2500MHz	-1.21	22%

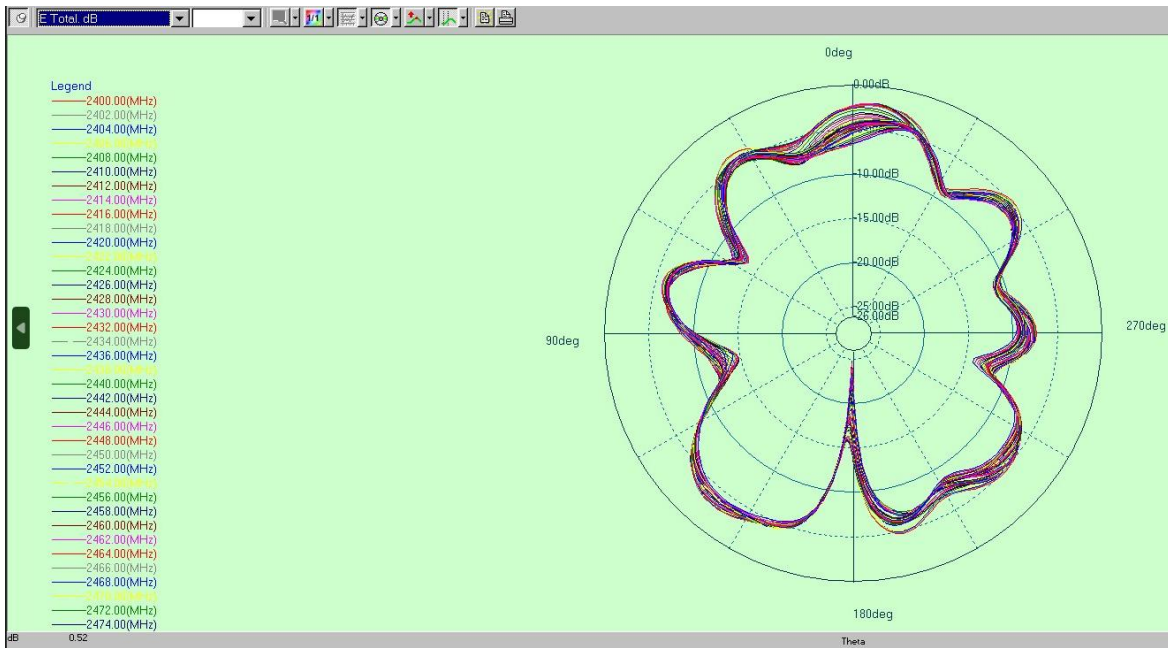
3.2 辐射方向图 (Radiation Pattern)

3D 方向图

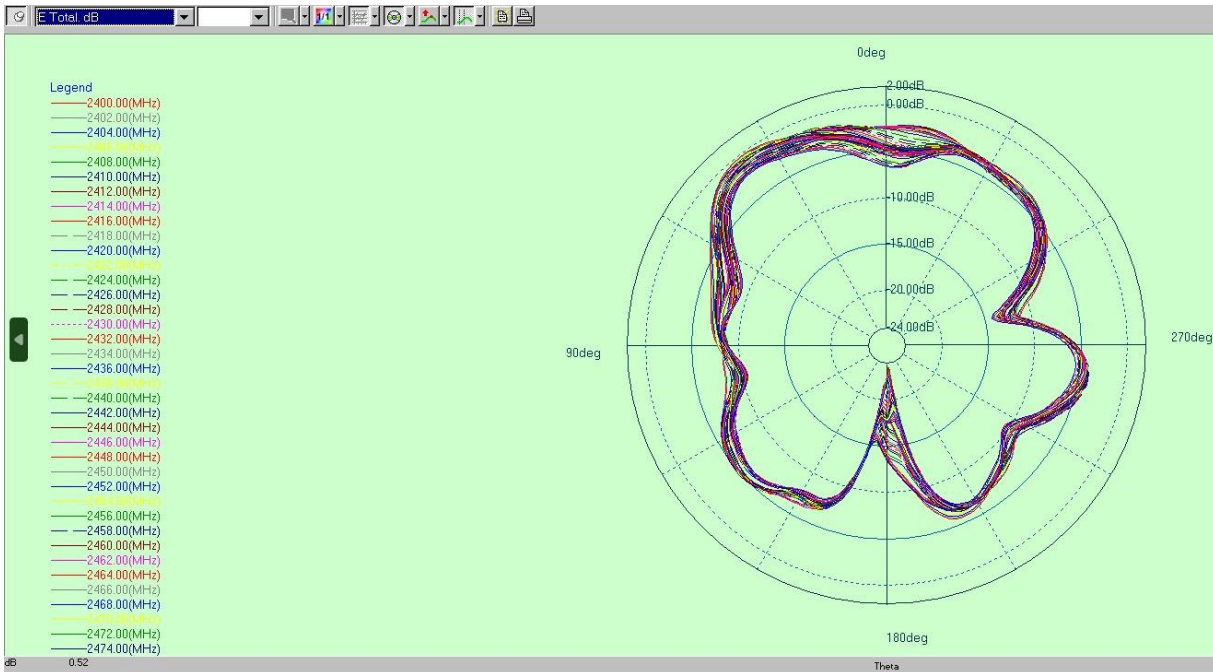
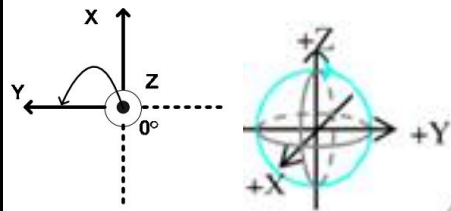
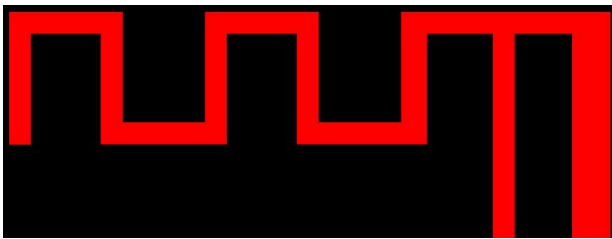


(1) E1, XZ 面, $\phi=0^\circ$; (E1, XZ plane, $\phi=0^\circ$)





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



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

