



密级: 绝密 /confidentiality

V001

Y-YB-CR-115

天线型号(Antenna Version): ANT-BBNCNC20006

产品型号(Model of the DUT): BC01

PCB 编号及版本(PCB number and version): MS92SFB-V1.0

责任硬件工程师(Hardware Engineer): XuNing

测试日期(Test Data): 2022/9/9

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)	S11<-10dB	
输入阻抗 Input Impedance (Ω)	50	
回波损耗 Return Loss(dB)	<-13	
电压驻波比 VSWR	<1.6	
增益 Gain (@2.44GHz) (dBi)	1.51	
峰值增益 Peak Gain (dBi)	2.29	
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)	14.4*5.23	
辐射体 Radiator	铜 Cuprum	
连接器型号 Connect Type	/	
工作温度 Working Temperature (℃)	-40~85	
存储温度 Storage Temperature (℃)	-40~85	



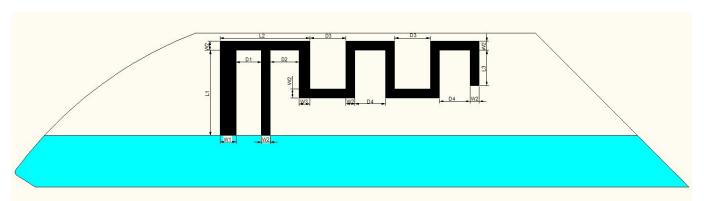


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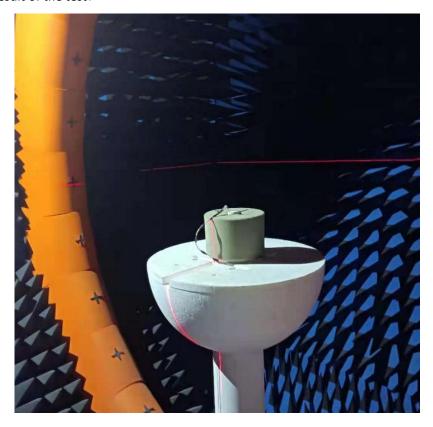
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2、天线尺寸(Antenna Size)



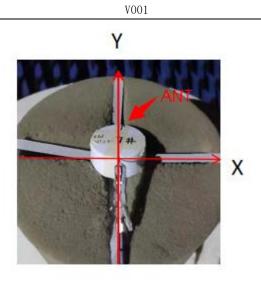
3、测试结果(The result of the test)





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Frequency	Gain . dBi	PeakGain (dBi)
2400000000	1.14	2.29
2402000000	1.17	
2404000000	1.07	
2406000000	1.02	13
2408000000	1.15	3
2410000000	1.36	
2412000000	1.34	9
2414000000	1.24	
2416000000	1.18	
2418000000	1.29	
2420000000	1.37	
2422000000	1.28	
2424000000	1.21	3
2426000000	1.23	
2428000000	1.45	2
2430000000	1.56	
2432000000	1.46	
2434000000	1.37	
2436000000	1.38	
2438000000	1.53	
2440000000	1.51	,,
2442000000	1.34	
2444000000	1.26	2
2446000000	1.43	
2448000000	1.64	
2450000000	1.55	
2452000000	1.46	
2454000000	1.48	
2456000000	1.71	3
2458000000	1.87	
2460000000	1.75	23
2462000000	1.63	
2464000000	1.77	
2466000000	2.09	
2468000000	2.18	
2470000000	2.06	10
2472000000	1.93	3
2474000000	2.05	
2476000000	2.29	<u> </u>
2478000000	2.28	
2480000000	2.09	2.5

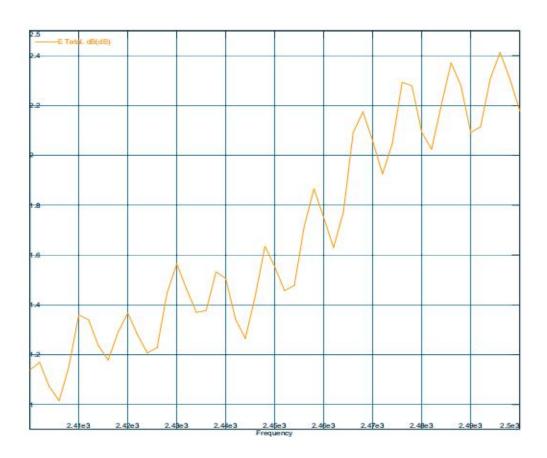




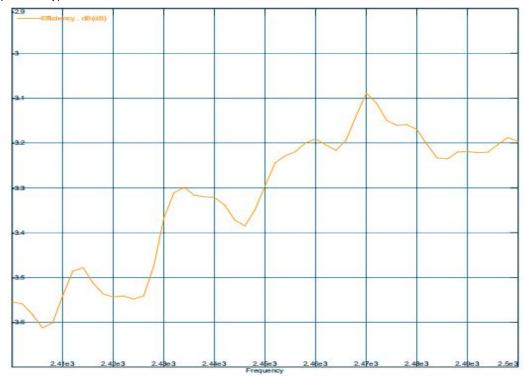
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3.1 增益 (Gain)



3.2 效率 (Efficiency)



备注:效率两种表达方式之间的关系:效率(dB)=10lg(效率的百分比)

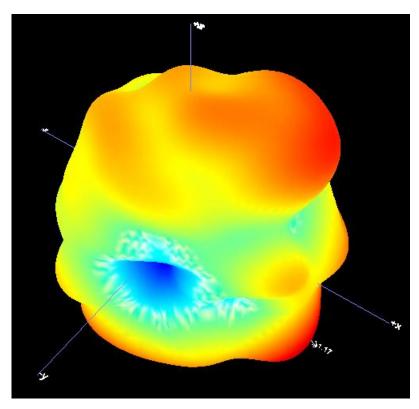




Note: the relationship between the two expressions of efficiency: efficiency (DB) = 10lg (percentage of efficiency)

4、辐射方向图 (Radiation Pattern)

4.1 3D Polar Plot



2402MHz

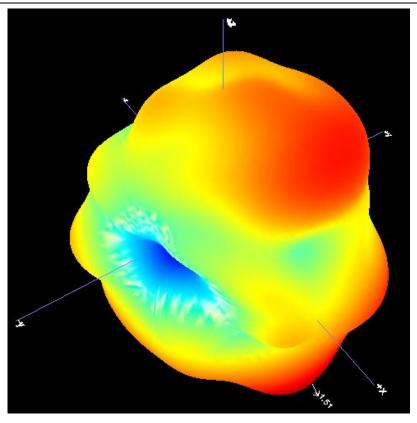




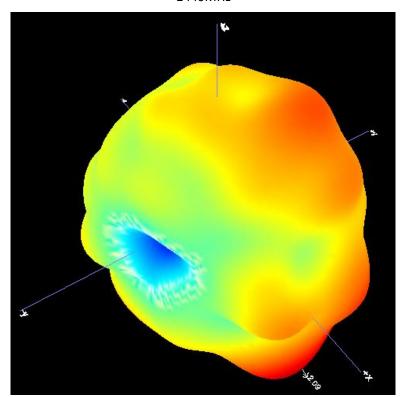
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2440MHz



2480MHz

- 4.2 2D Radiation Pattern
- (1) E1, XZ plane, phi=0;

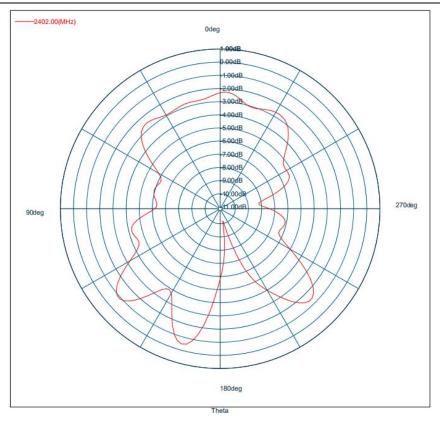




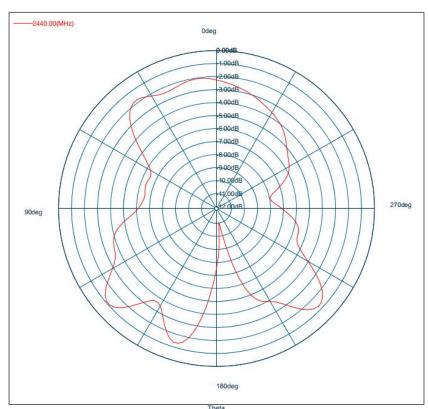
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2402MHz



2440MHz

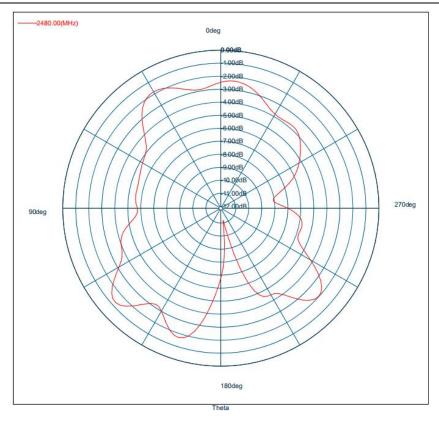




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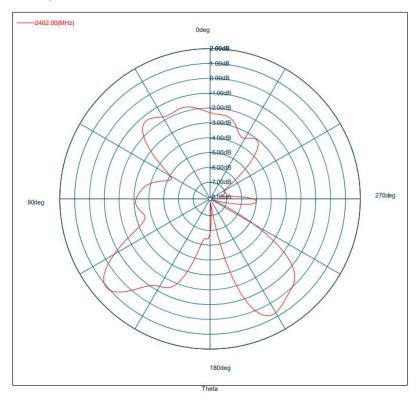
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(2) E2, YZ plane, phi= 90° ;



2402MHz

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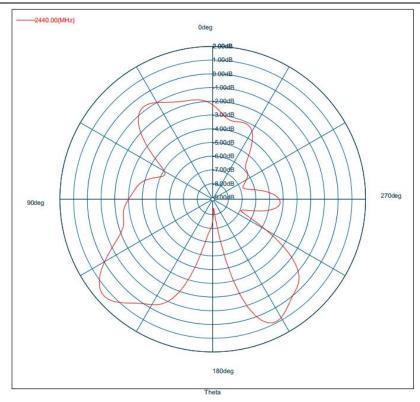




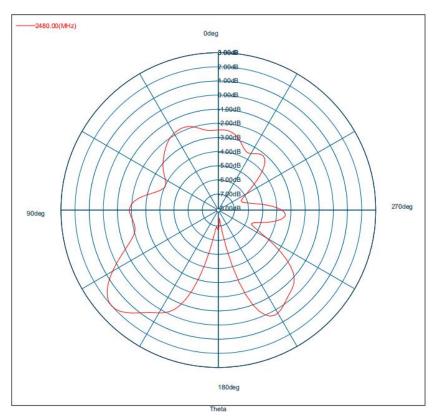
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2480MHz

(3) H, XY plane, theta= 90° ;

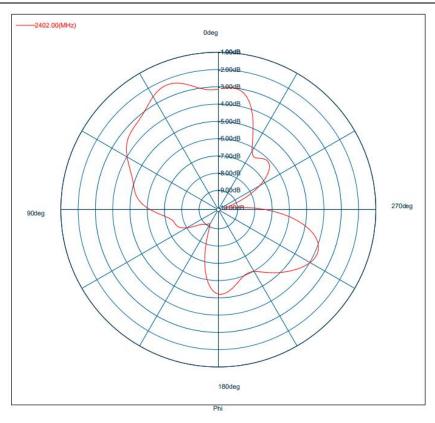




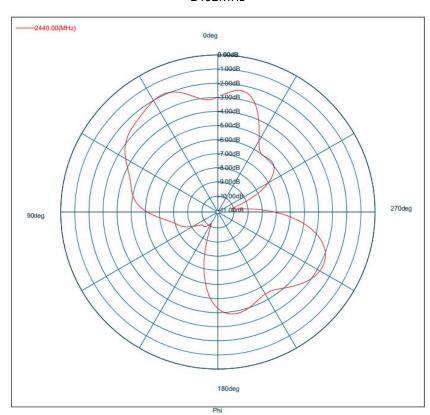
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2402MHz

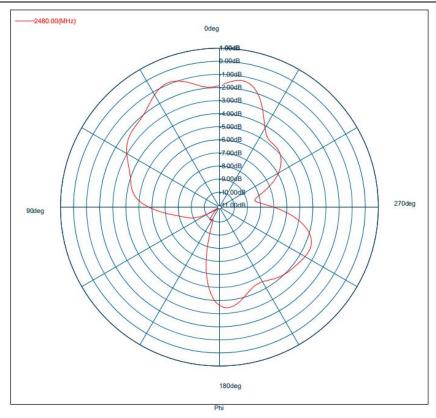


2440MHz





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2480MHz