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NUPHIZ

让无线电波助力未来生活



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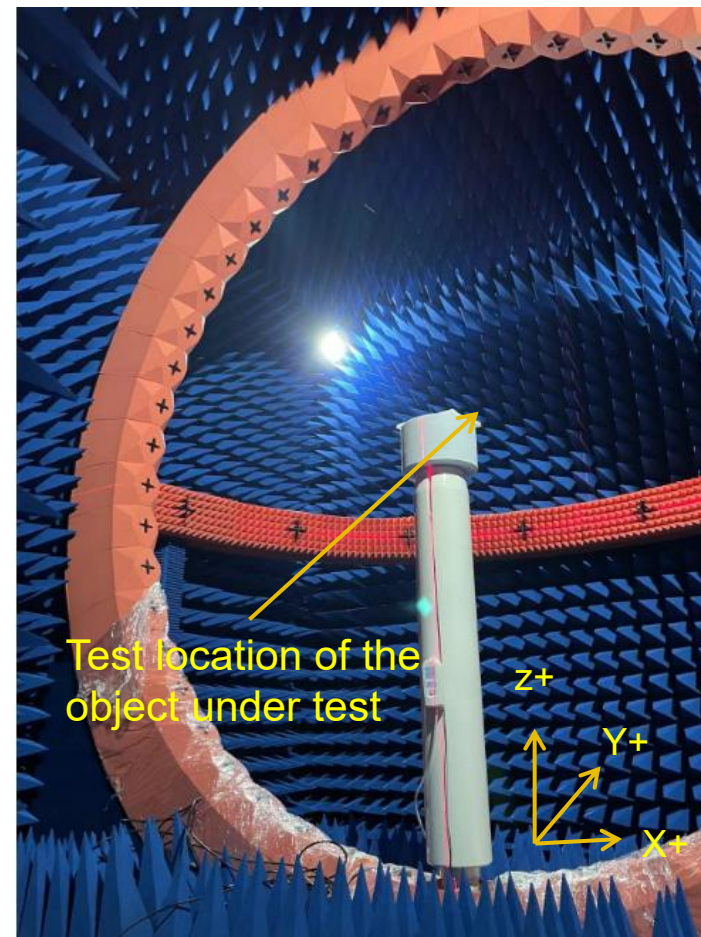
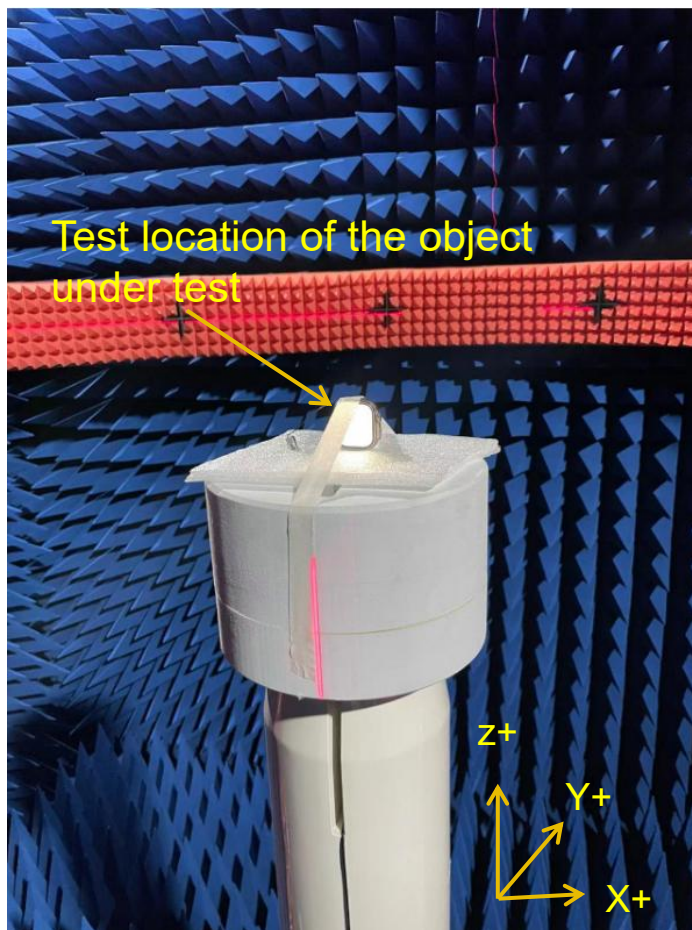
YL0001-3 BT Antenna performance report

Project name	YL0001-3	
Client	动致	
Antenna name	BT	
Testing personnel	SEAN	
Contact information	15813808853	
Date	2023/12/14	
Test equipment	Keysight 5071C	
Item information	Prototype status	produce
	Mainboard	258-525AM
	Bluetooth name	VVABC Ultra2
	Else	

Test scene



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Project debugging prototype display



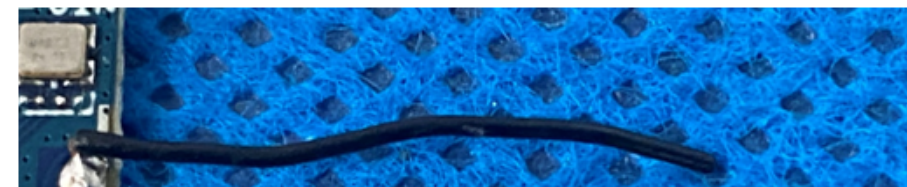
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Antenna placement



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$L20 \pm 0.5\text{mm}$

S11 Test data



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Fre(GHz)	Return loss(dB)	SWR
2.4	-4.1	4.3
2.5	-4.9	3.6

Passive test data



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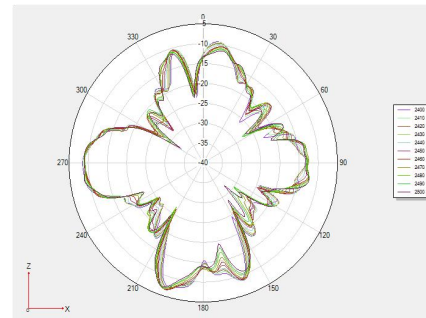


Antenna efficiency and gain

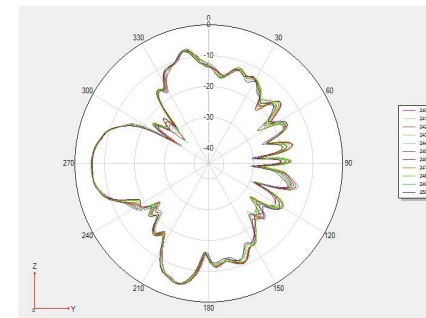
Frequenc y/Mhz	Efficiency / %	MaxGain/ dBi
2400	5.86	-3.8
2410	5.82	-3.84
2420	5.7	-4.02
2430	5.85	-3.81
2440	5.9	-3.67
2450	5.81	-3.53
2460	5.78	-3.53
2470	5.92	-3.49
2480	5.73	-3.64
2490	5.92	-3.48
2500	5.85	-3.41

2D Radition pattern

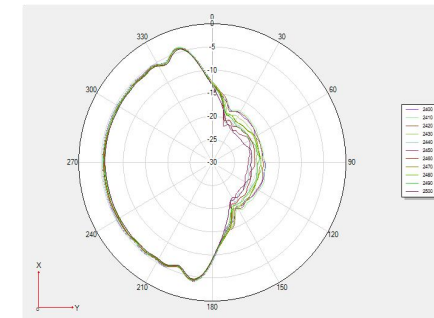
Phi 0 2D



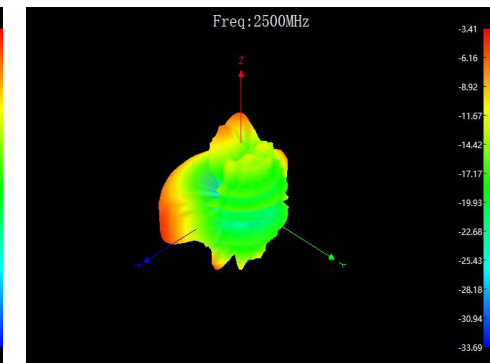
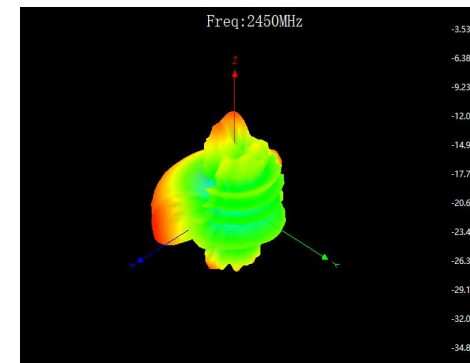
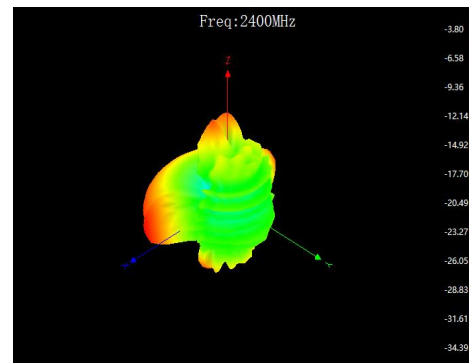
Phi 90 2D



Theta 90 2D



3D Radition pattern



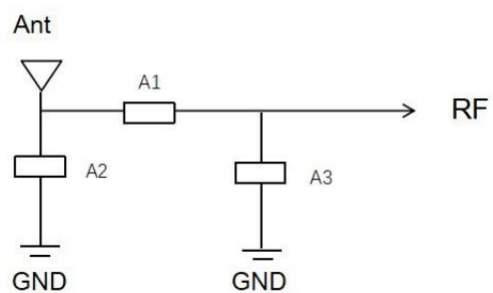
Match circuit



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匹配电路：



Bit number	Matched value
A1	No modification
A2	NC
A3	NC

Measured data

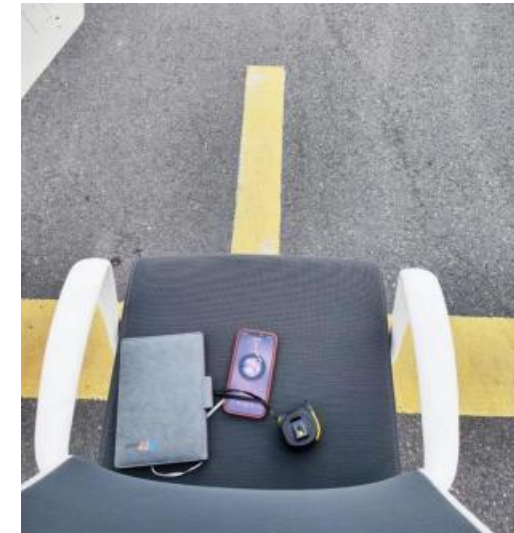


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Test site: Mei Sheng Chuang Valley ground parking lot test mobile phone iphone12

measured data	
Face to face devices to find your phone	30m
Look for the phone with your back to it	30m
Play music face to face	28m
Play music from your back	25m



Conclusion



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Bluetooth antenna performance to meet customer use



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Thanks