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NUPHIZ

让无线电波助力未来生活

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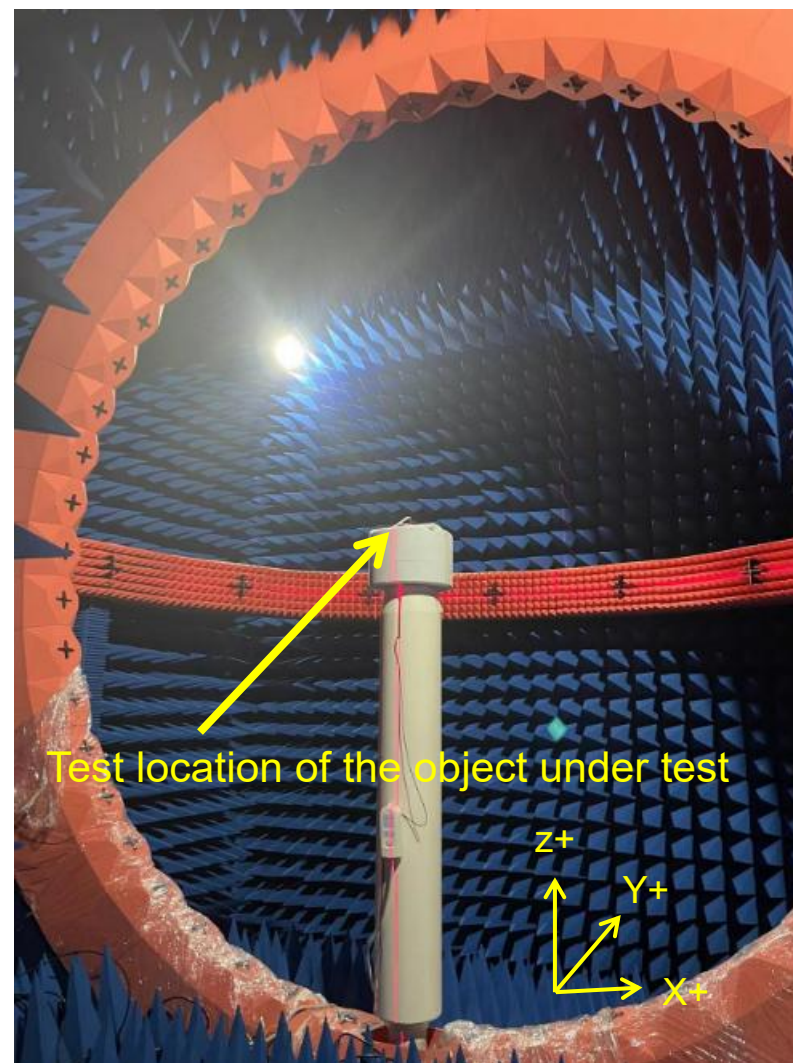
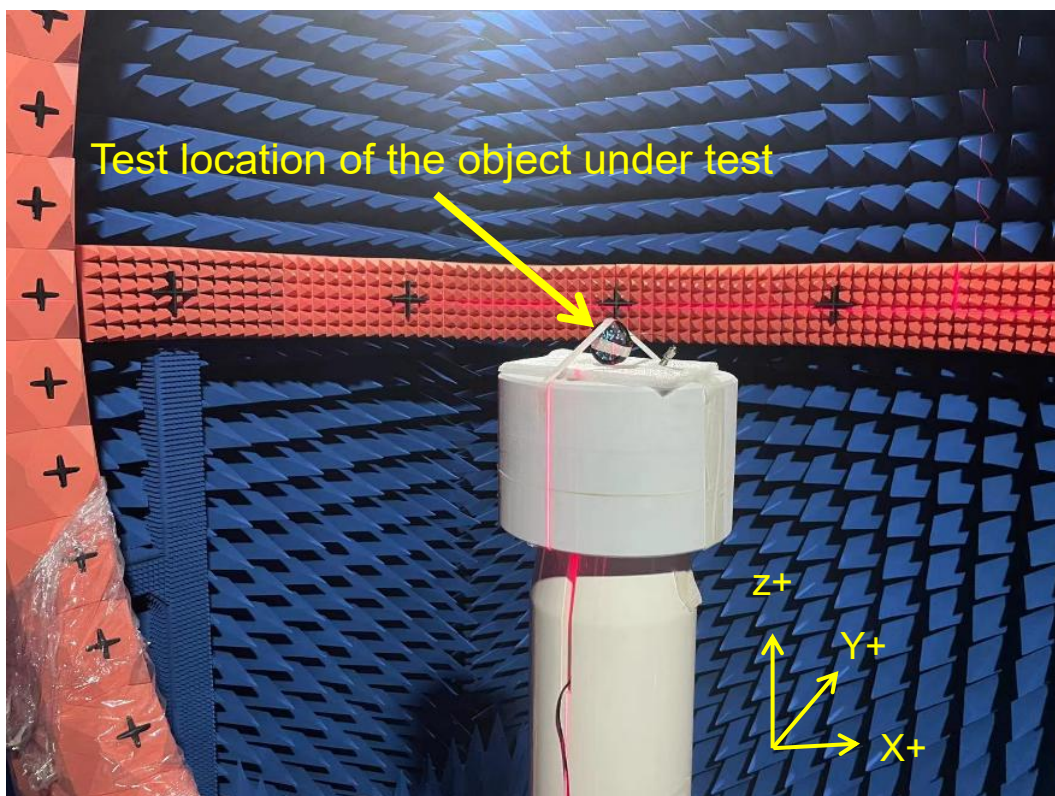
TG0567-6 BT Antenna performance report

Project name	TG0567-6	
Client	喜百汇-M	
Antenna name	BT	
Testing personnel	SEAN	
Contact information	15813808853	
Date	2023/12/29	
Test equipment	Keysight 5071C	
Item information	Prototype status	produce
	Mainboard	T168ZK
	Bluetooth name	Smart Pro
	Else	

Test scene



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Project debugging prototype display



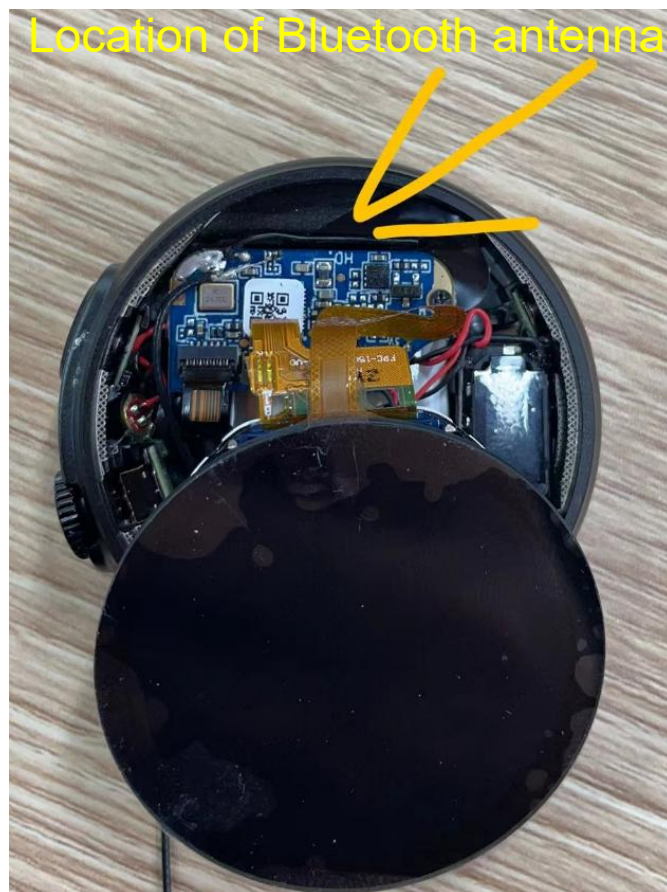
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Antenna placement



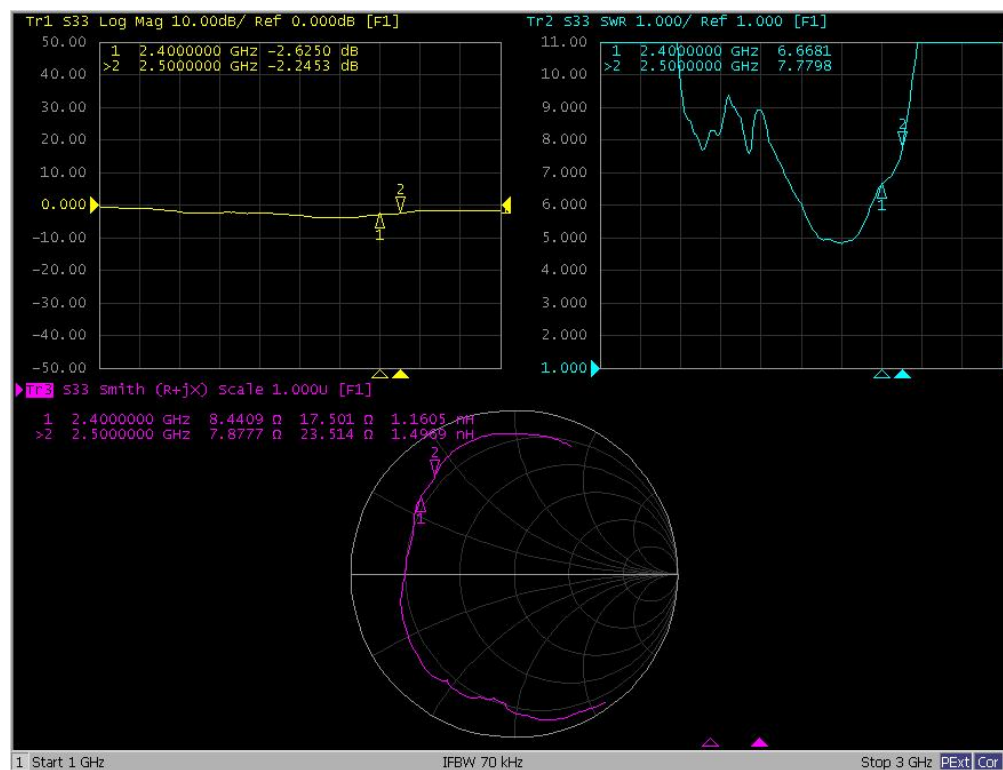
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S11 Test data



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Fre(GHz)	Return loss(dB)	SWR
2.4	-2.6	6.7
2.5	-2.2	7.8

Passive test data



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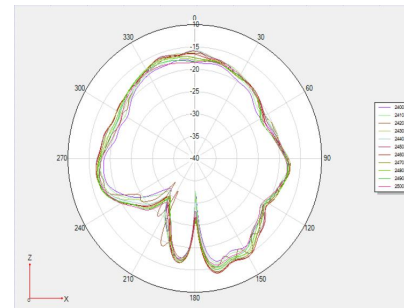


Antenna efficiency and gain

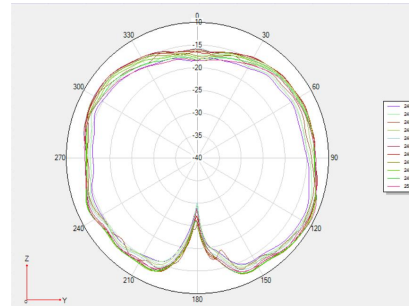
Frequenc y/Mhz	Efficiency / %	MaxGain/ dBi
2400	1.95	-12.46
2410	2.12	-12.03
2420	2.34	-11.69
2430	2.48	-11.41
2440	2.57	-11.29
2450	2.69	-11.16
2460	2.74	-11.07
2470	2.72	-11.03
2480	2.69	-10.81
2490	2.61	-10.59
2500	2.53	-10.54

2D Radition pattern

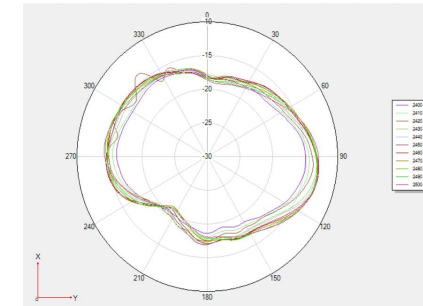
Phi 0 2D



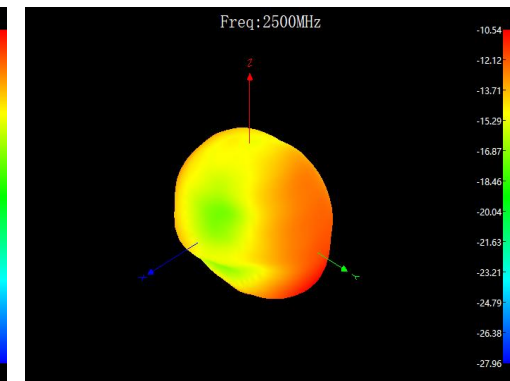
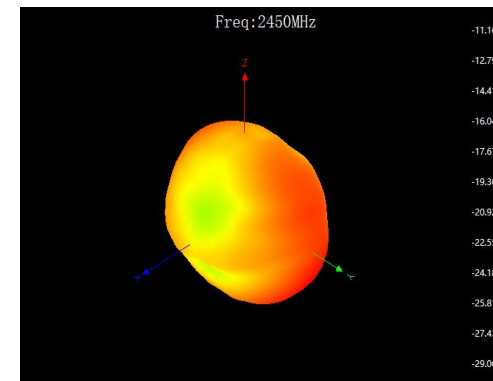
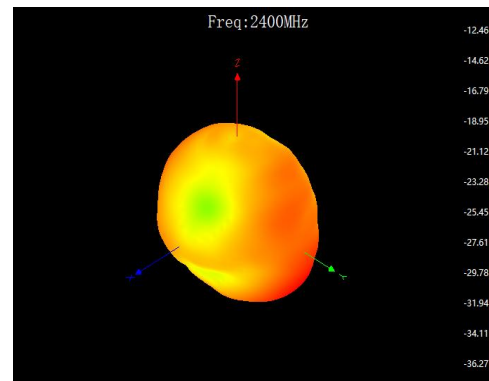
Phi 90 2D



Theta 90 2D



3D Radition pattern



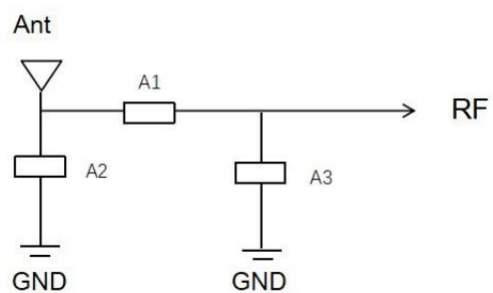
Match circuit



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匹配电路：



Bit number	Matched value
A1	No modification
A2	NC
A3	NC

Conclusion



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Bluetooth antenna performance to meet customer use



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Thanks