

Antenna Specification

To: Federal Communication Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MID 21046

Specifications Summary

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BLE5.0 / BLE5.1
Modulation Technique:	FHSS(GFSK, $\pi/4$ DQPSK, 8DPSK)
Number of Channel:	79
Antenna Type	PCB Antenna
Antenna Gain	117dB @125kbps
Crystal:	16MHz



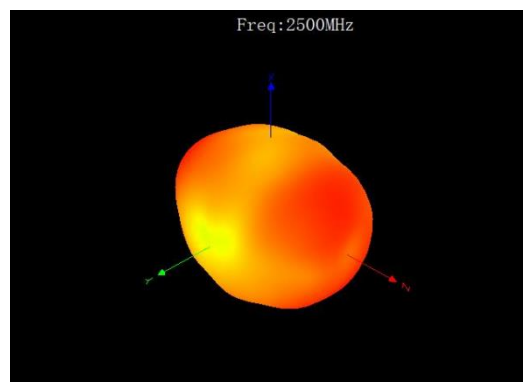
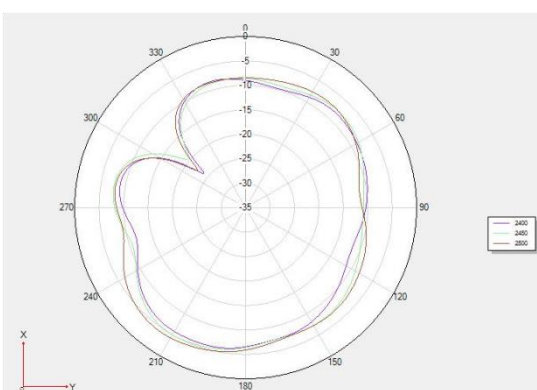
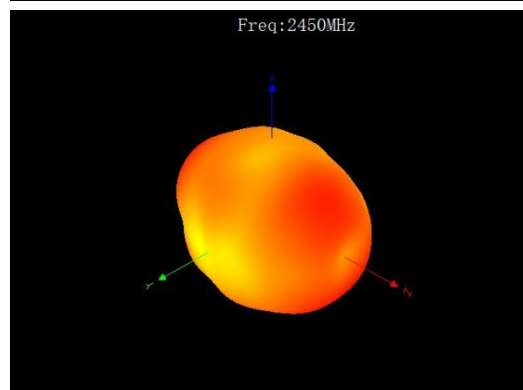
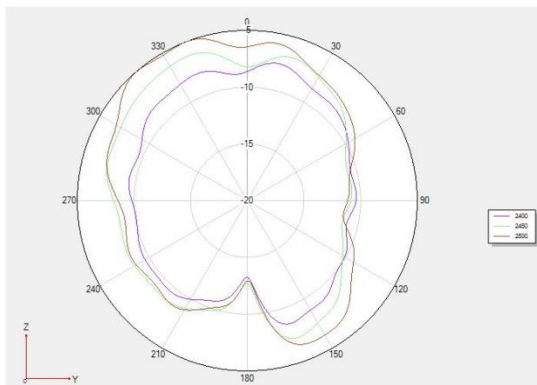
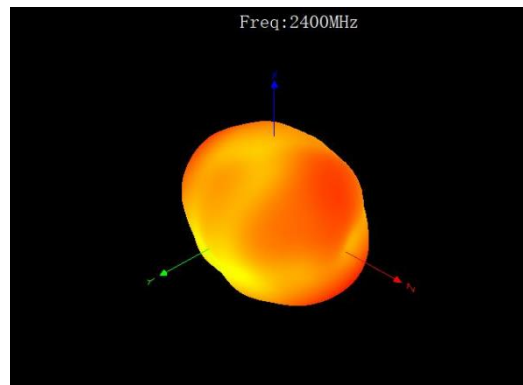
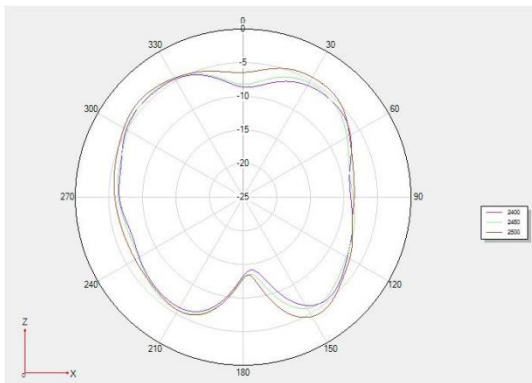
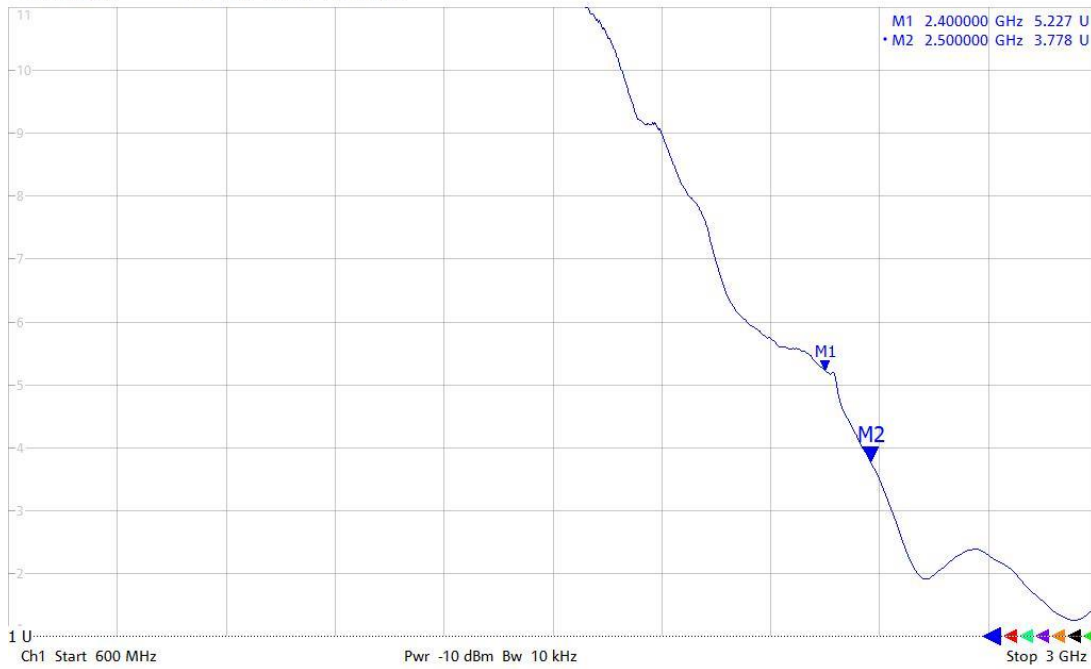
Antenna Company: Nushine Intelligent

Model: BLE_ANT

Antenna Test Lab: 尚远 Wireless

Trc12 S22 SWR 1 U/ Ref 1 U Cal Off Offs
Mem14[Trc12] S22 SWR 1 U/ Ref 1 U Invisible
Mem17[Trc12] S22 SWR 1 U/ Ref 1 U Invisible
Mem19[Trc12] S22 SWR 1 U/ Ref 1 U Invisible
Mem13[Trc12] S22 SWR 1 U/ Ref 1 U Invisible
Mem16[Trc12] S22 SWR 1 U/ Ref 1 U Invisible
Mem18[Trc12] S12 SWR 1 U/ Ref 1 U Invisible

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BLE无线无源增益

Freq	Effi	Effi	MaxGain
/Mhz	/ dB	/ %	/dBi
2400	-6.32	23.33	-0.25
2410	-6.38	23.01	-0.45
2420	-6.97	20.09	-0.67
2430	-6.7	21.38	-0.53
2440	-6.2	23.99	-0.06
2450	-5.93	25.53	0.07
2460	-5.67	27.1	0.56
2470	-5.56	27.8	0.39
2480	-5.41	28.77	0.3
2490	-5.28	29.65	0.26
2500	-5.07	31.12	0.64