

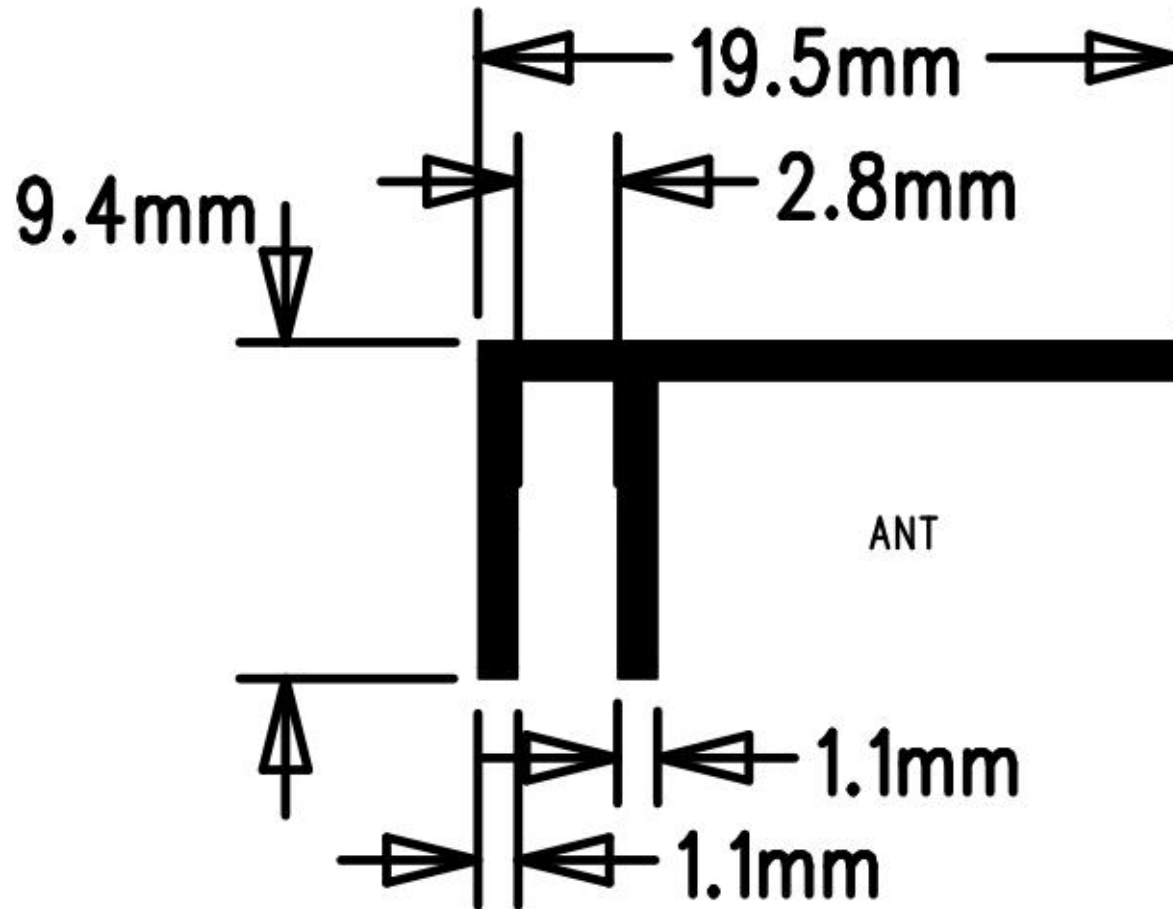
- Bluetooth Headphone Antenna Passive Testing Re

2025-09-18

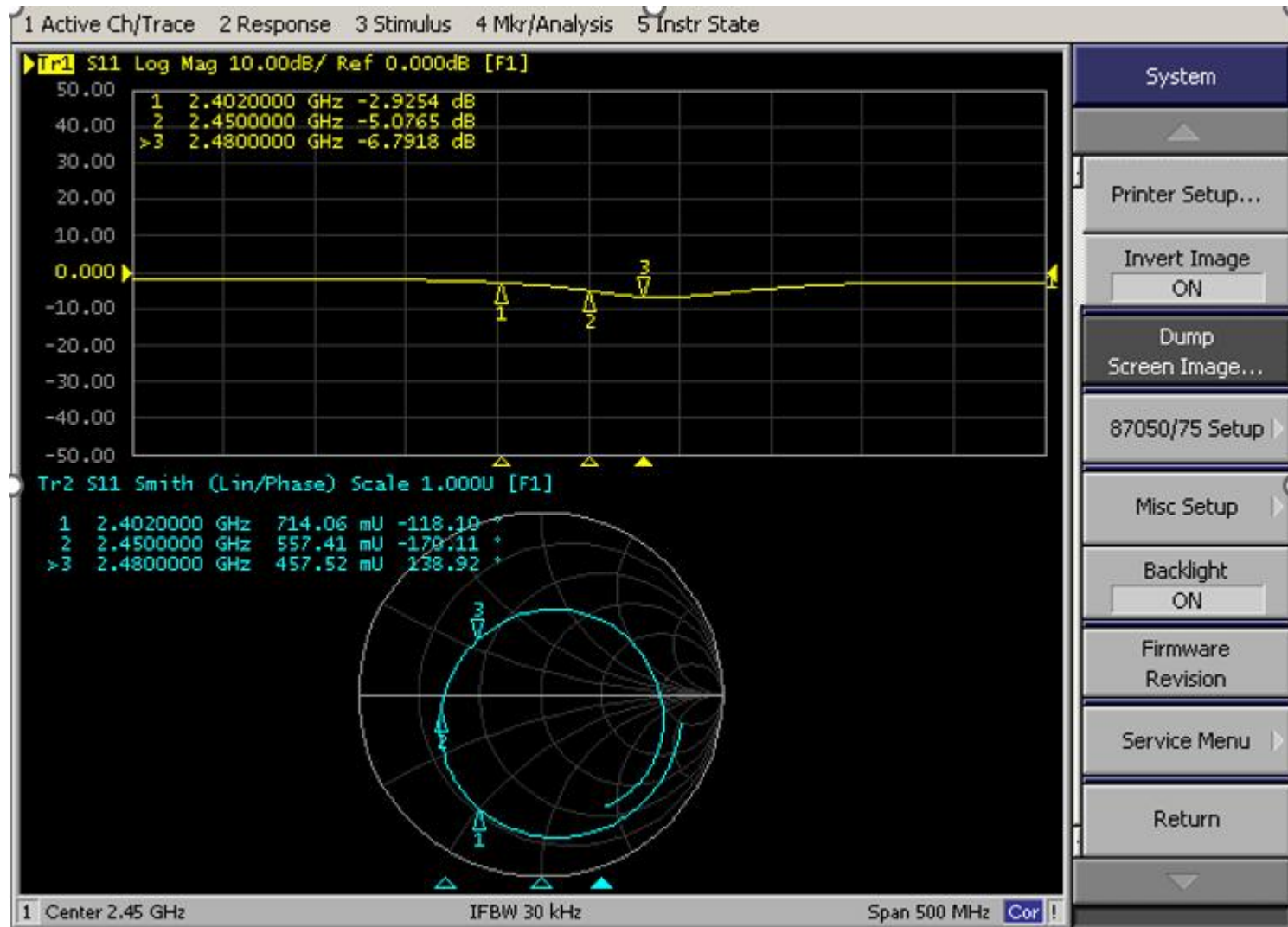
Project Information

• <i>Manufacture Company:</i>	Dongguan Yinqu Technology Co,Ltd
• <i>Project name:</i>	RITA
• <i>Solution</i>	PCB antenna
• <i>End Product:</i>	Bluetooth headphones
• <i>Radio frequency (operating frequency):</i>	Bluetooth (2400MHz-2482MHz)
• <i>Report Date:</i>	2025-09-18

Antenna size

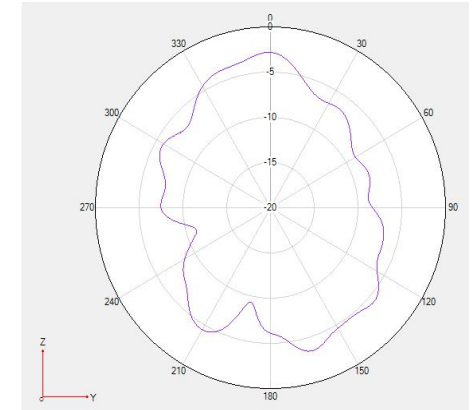
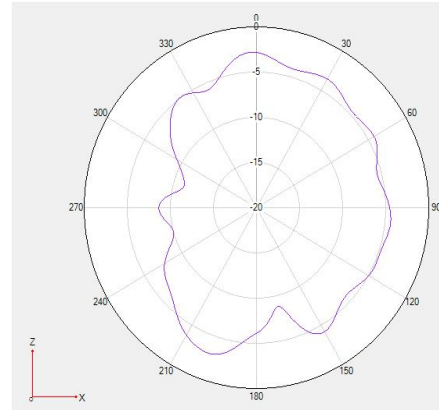


Antenna characteristics

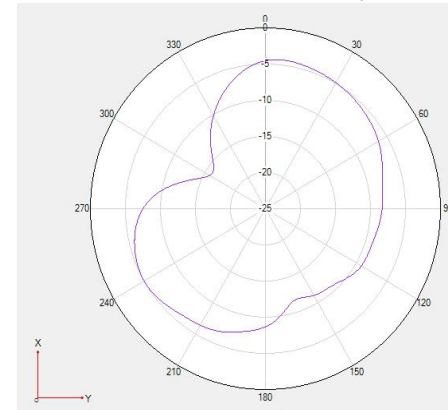


Antenna characteristics

Phi 0 freq=2450MHz Phi 90 freq=2450MHz

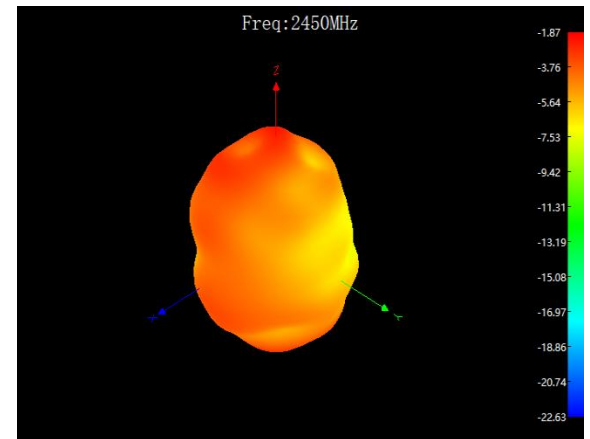
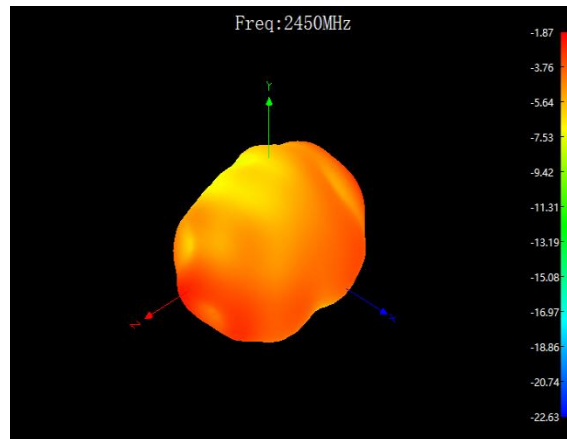
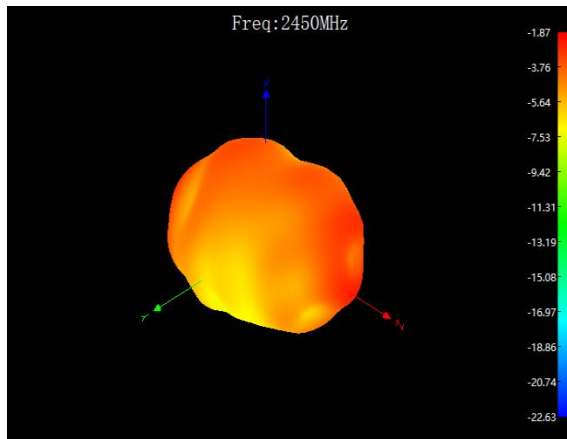


Theta 90 freq=2450MHz



Frequency/Mhz	Peak Gain/dBi	Efficiency / %
2400	0.00	21.33
2410	-0.06	21.78
2420	-0.07	24.27
2430	-0.11	24.77
2440	-0.09	26.92
2450	-0.16	27.29
2460	-0.11	27.86
2470	-0.12	29.24
2480	-0.16	30.13

Antenna field pattern diagram



Main testing equipment

E5062A



CMW500



Thank You

