Professional RF research and development institutions

Shenzhen dwm Communication Equipment Co., Ltd.

Antenna Test Report

Shenzhen R&D Center Laboratory

Completion Date: September 2, 2022

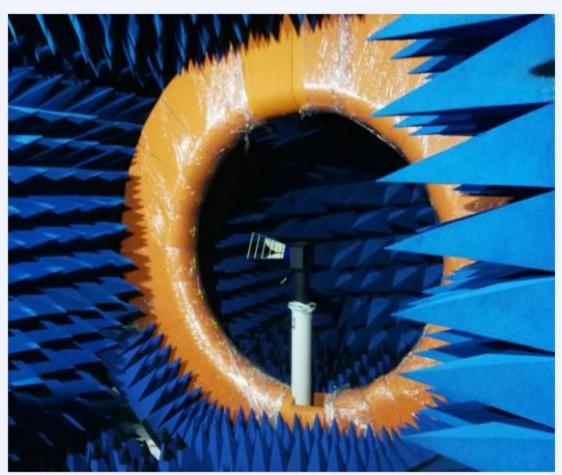
Project Information

1 Client:Hangzhou Ruze e-commerce Co., Ltd
2 Model:w00

3 Frequency band: BT

4 Remark:

Test Equipment



A 24-probe microwave chamber



R&S CMW500



Agilent E5515C

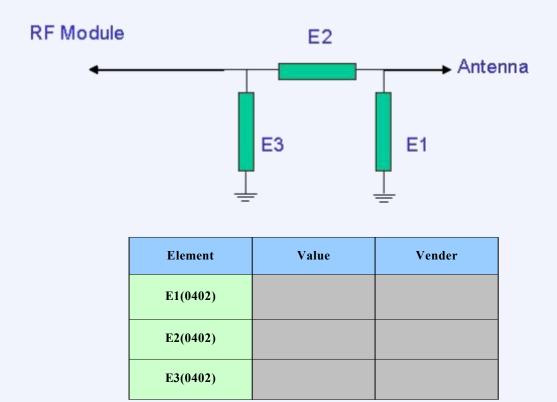


Agilent Technologies E5071B

Antenna project design and debugging instruction

Working frequency	BT:2400~2500MHz	Test Engin eer		Version	DWM– V1.0
	Product	Antenna matching circuit			
		original match			
	Remarks for the whole antenna	Antenna Matching Instructions			
	Γ antenna form: monopole Γ matching circuit: unchanged	E1			
		E2			
		E3			

Matching Circuit



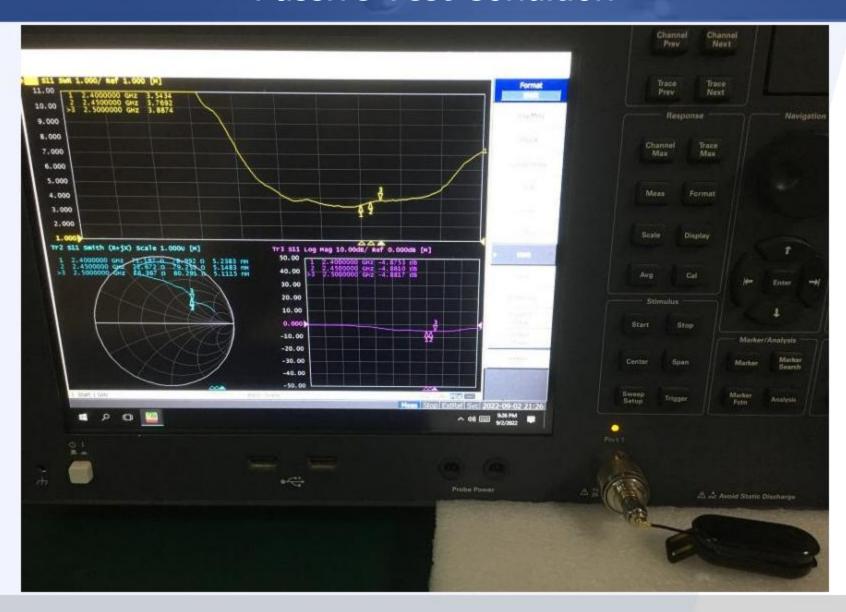
Our company has not modified the original matching circuit of the BT antenna

EUT Appearance





Passive Test Condition



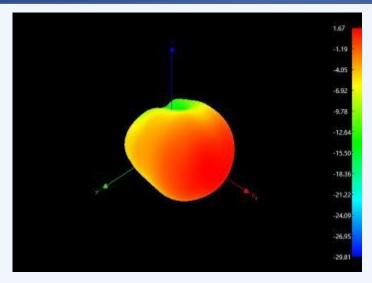
SWR+Return Loss+Smith

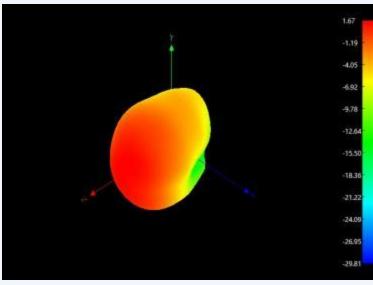


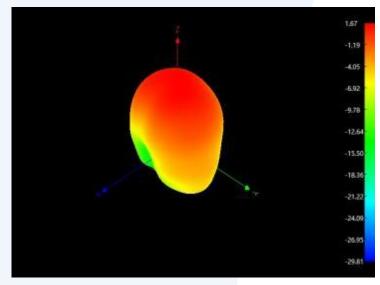
Gain And Efficiency

Frequency / MHz	Gain/ dBi	Frequency / MHz	Efficiency / dB	Efficiency / %
2400	-0.35	2400	-6.49	22.44
2410	-0.48	2410	-6.35	23.17
2420	-0.52	2420	-6.58	21.98
2430	-0.74	2430	-7.4	18.2
2440	-0.92	2440	-7.58	17.46
2450	-0.83	2450	-7.15	19.28
2460	-0.77	2460	-6.73	21.23
2470	-0.71	2470	-6.54	22.18
2480	-0.85	2480	-6.31	23.39
2490	-0.93	2490	-6.09	24.6
2500	-1.01	2500	-6.27	23.6

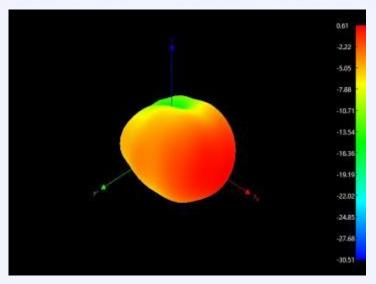
3D Pattern(2400MHz)

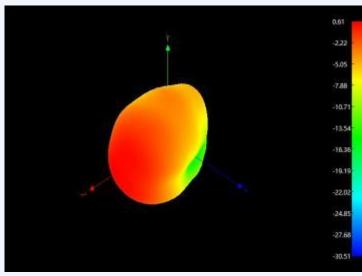


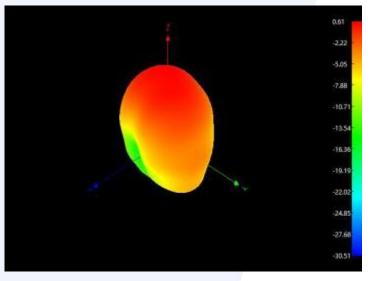




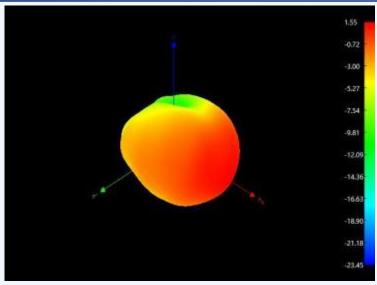
3D Pattern(2450MHz)

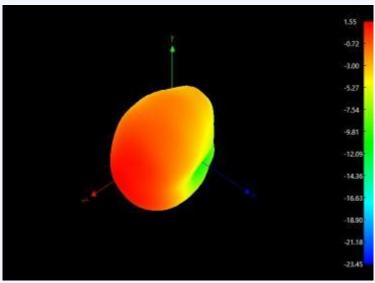


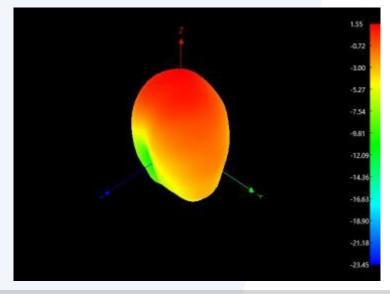


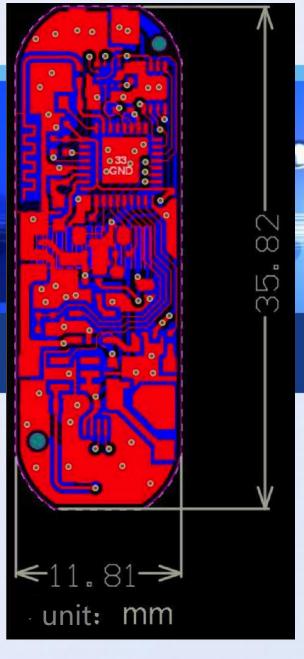


3D Pattern(2500MHz)

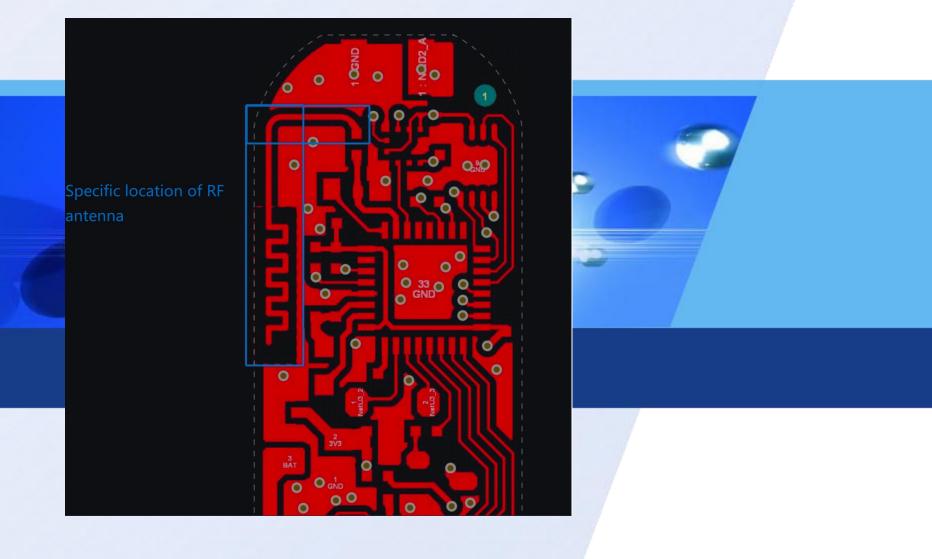


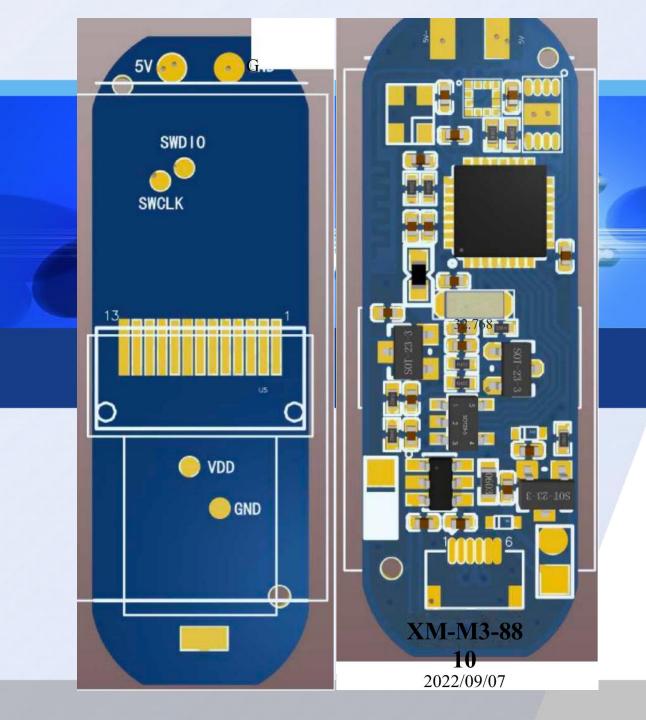












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