



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

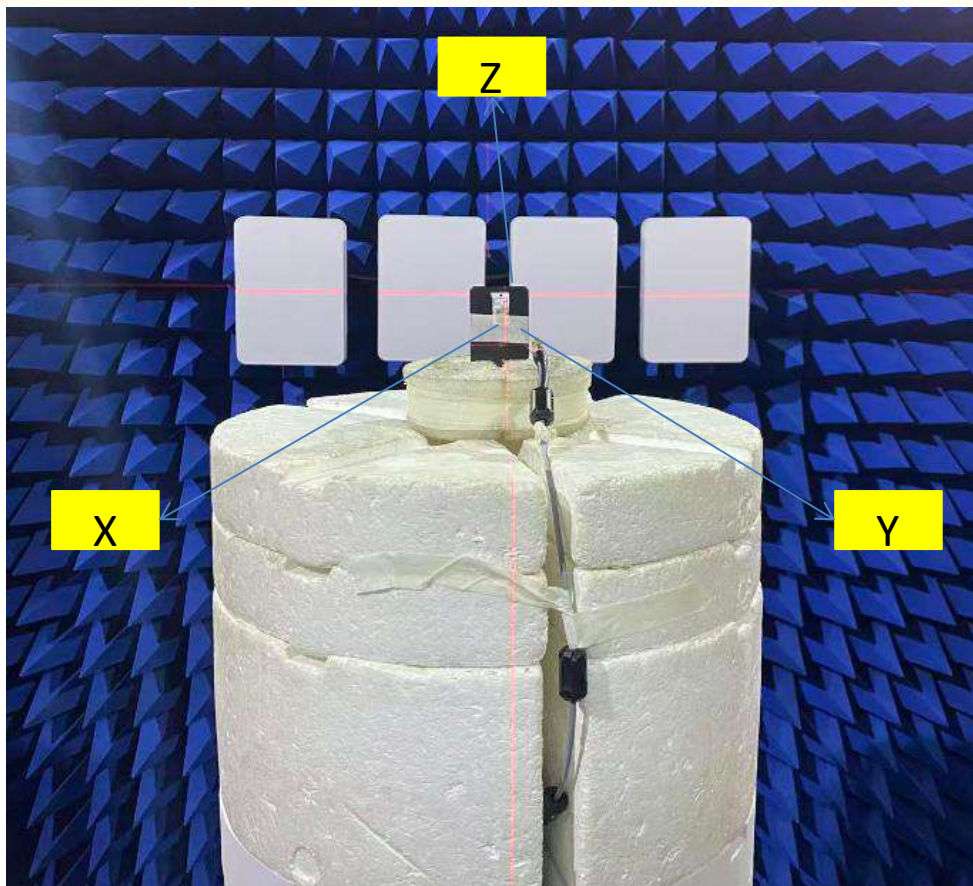
Antenna Study

- **Client Name: JM Zengge Co.,Ltd**
- **Project Name: WB43-M5 module**
- **Model: WB43-M5**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2025.08.22**

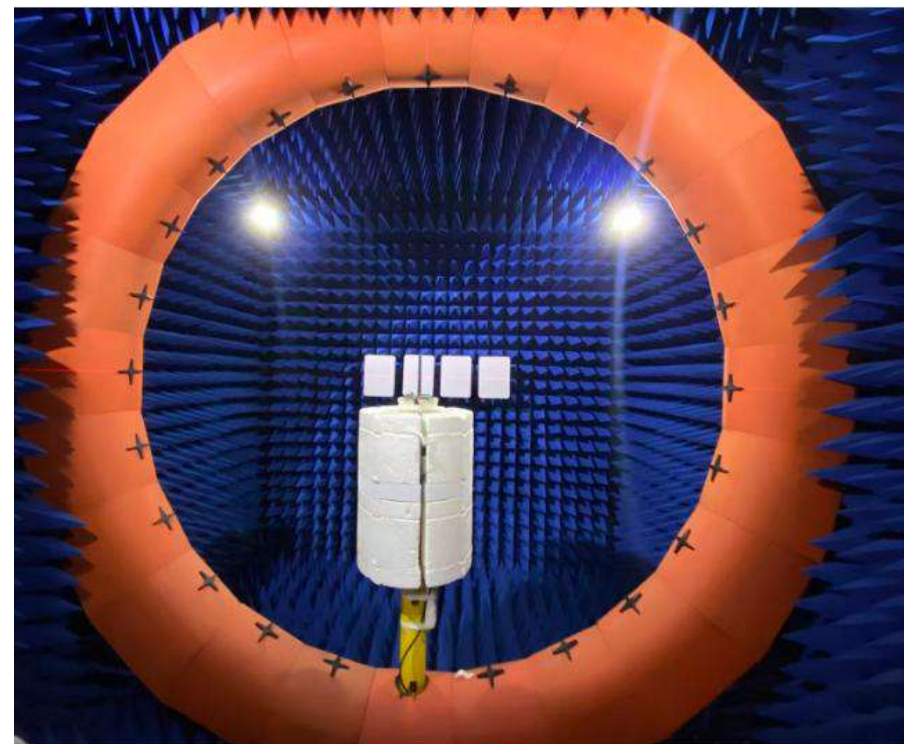
Address: Building 79, New Sun Industrial City, Lin Village Community, Tangxia Town, Dongguan (Dongguan Company) Phone: 0769-81777126

Room 106, Building 3, Lenton Technology Park, No. 500 Qiuyi Road, Binjiang District, Hangzhou (Hangzhou Branch) Fax: 0769-81777125

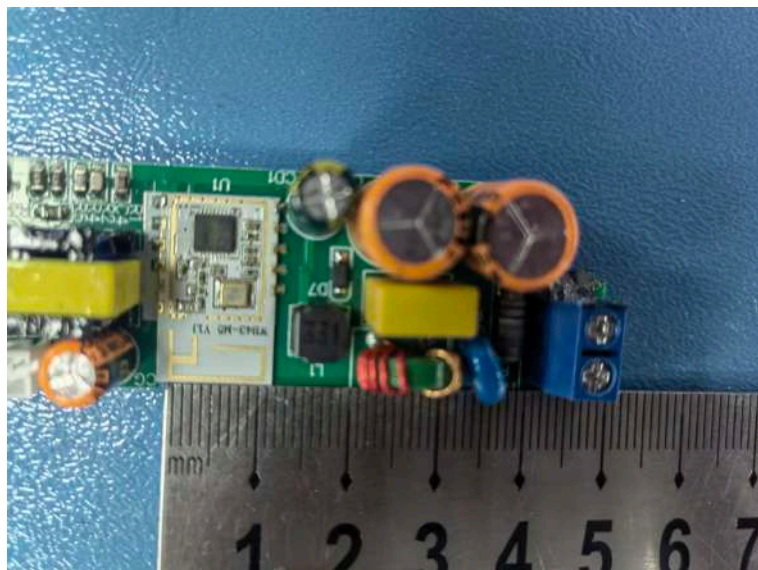
Room 106, Liuxian Second Road No. 47, LiuXian New Industrial Park, Bao'an District, Shenzhen (Shenzhen Company) Website: www.ubuant.com



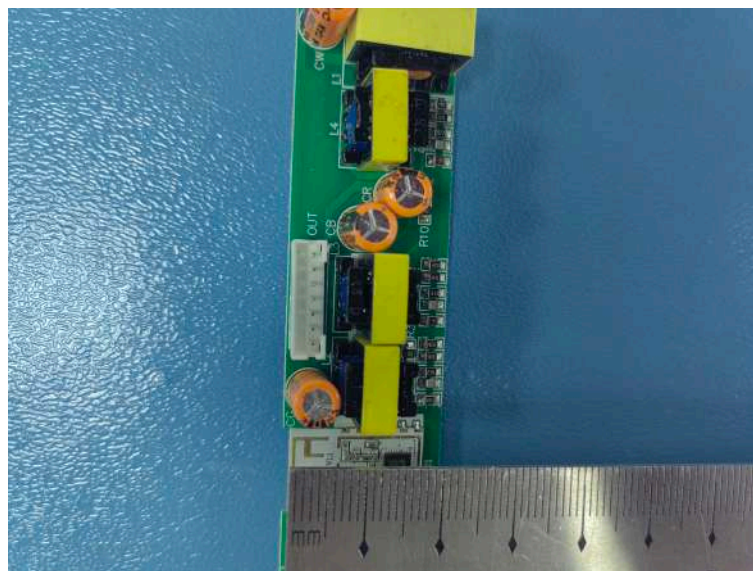
Testing environment



Testing 3D microwave darkroom(3m*3m*3m)



length: 10.5mm

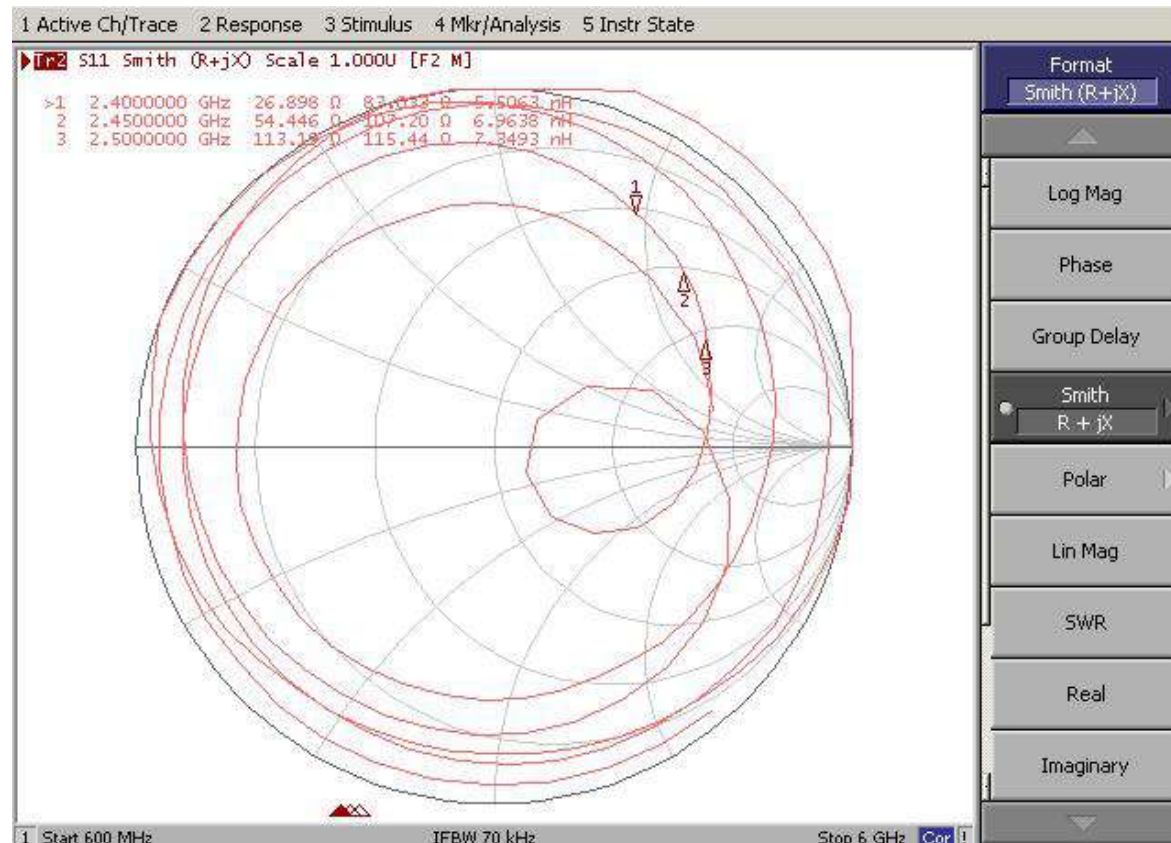


width:5mm

- Antenna name: 2.4G
- Covers : 2400/2500MHz

S Parameter_Return Loss&VSWR-Smith

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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-2.16	-1.61	-1.53	-1.37	-0.86	-0.92	-0.51	-0.62	-0.20	-0.45	-0.28
Efficiency (%)	15.59	17.44	17.41	17.70	19.38	18.75	20.30	19.55	21.19	19.75	20.60

