



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

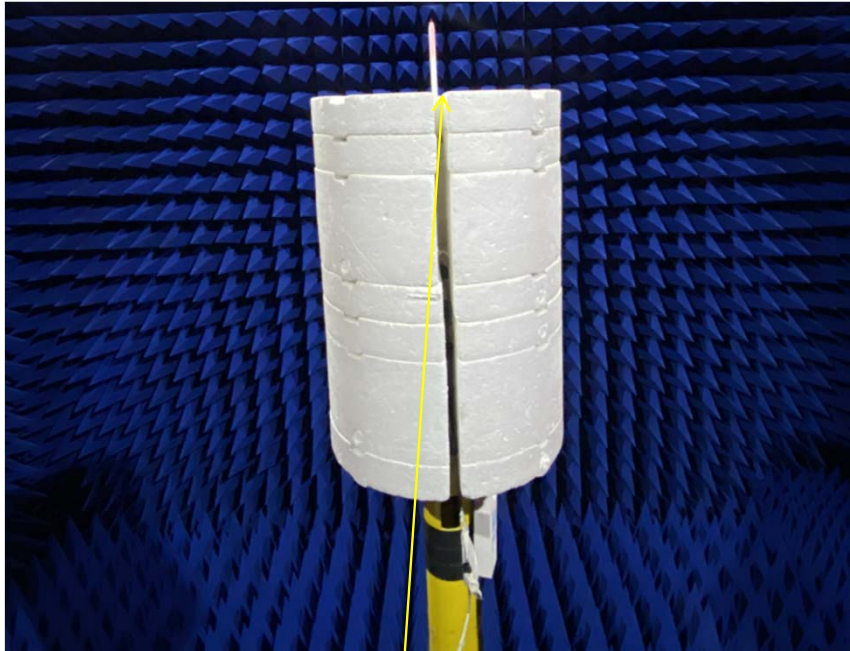
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,
Guangdong Province, China

Antenna Study

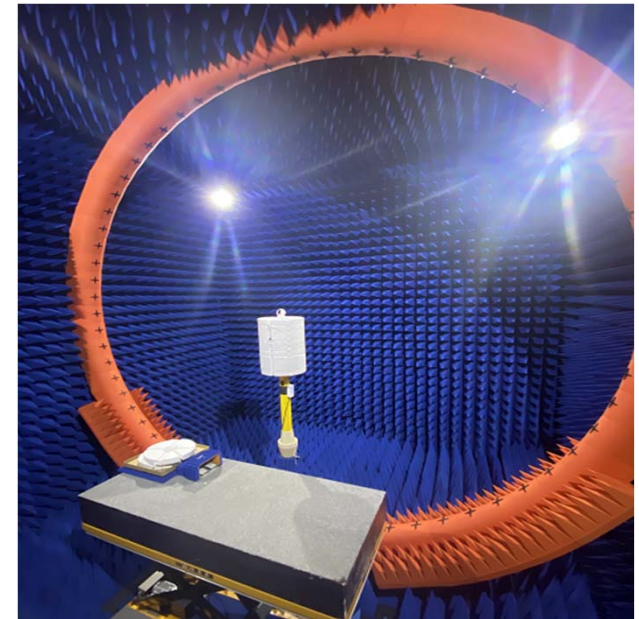
- **Client Name:Guangzhou Xinzhong Technology Co., LTD**
- **Project Name:capacitive pen**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2024.01.05**

PCB Antenna

Dongguan UB Electronics Co., Ltd



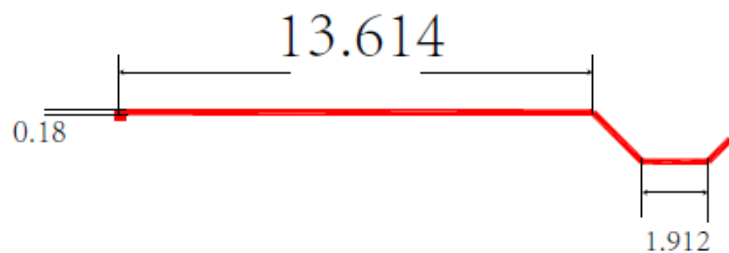
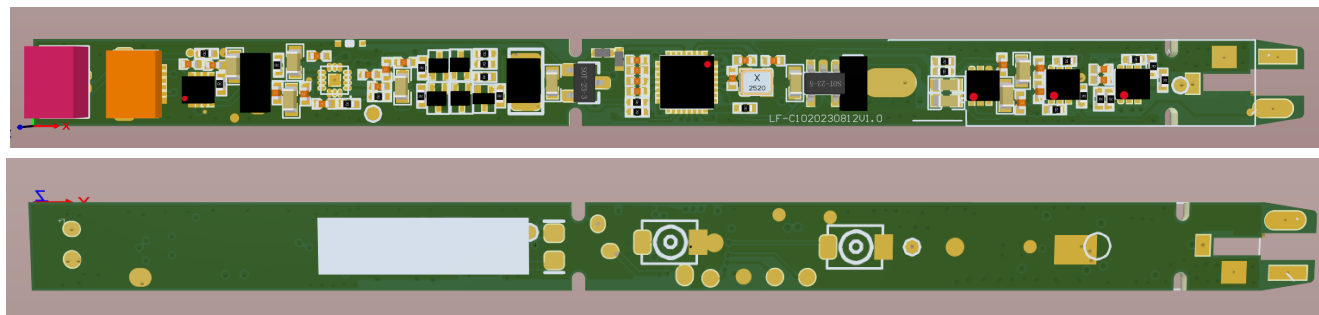
Testing environment



Testing 3D microwave darkroom(6m*6m*6m)

PCB Antenna

Dongguan UB Electronics Co., Ltd

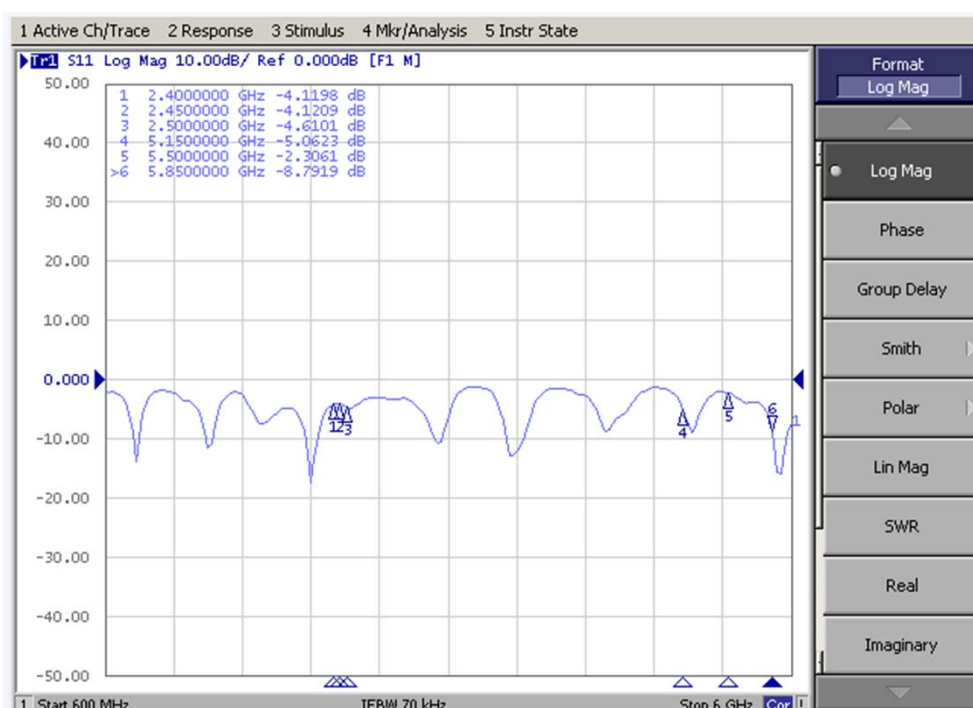
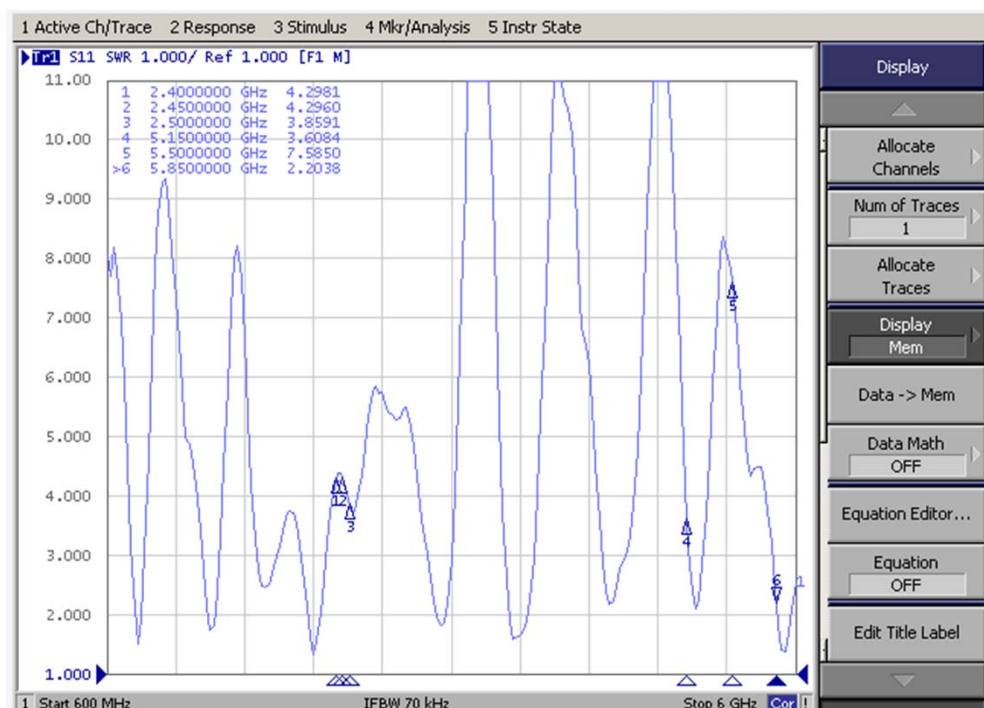


Unit:MM

- Antenna name: 2.4G
- Antenna Type: PCB Antenna
- Covers : 2400-2500MHz

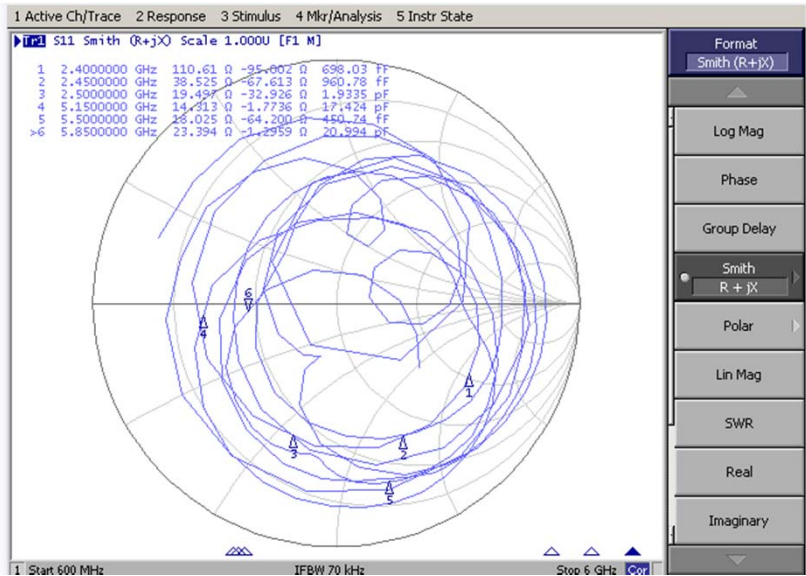
S Parameter_Return Loss&VSWR

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Efficiency and Gain-Smith

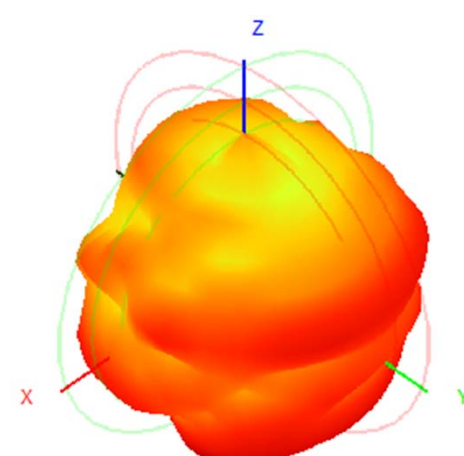
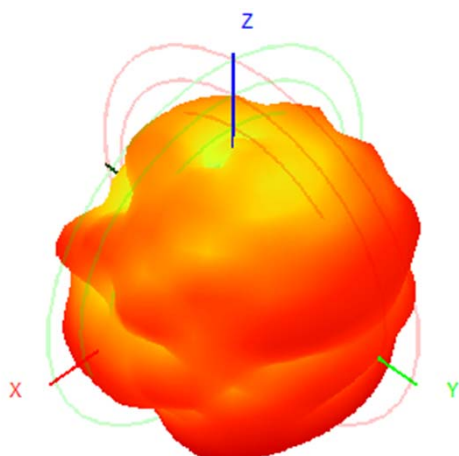
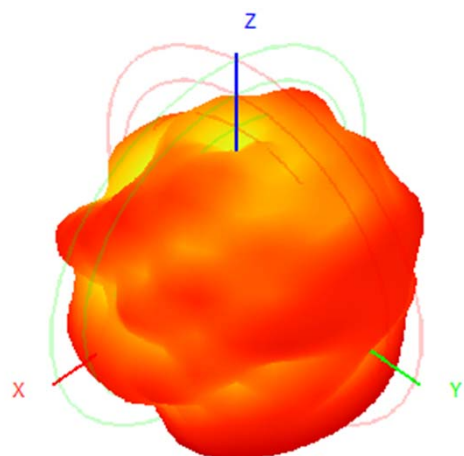
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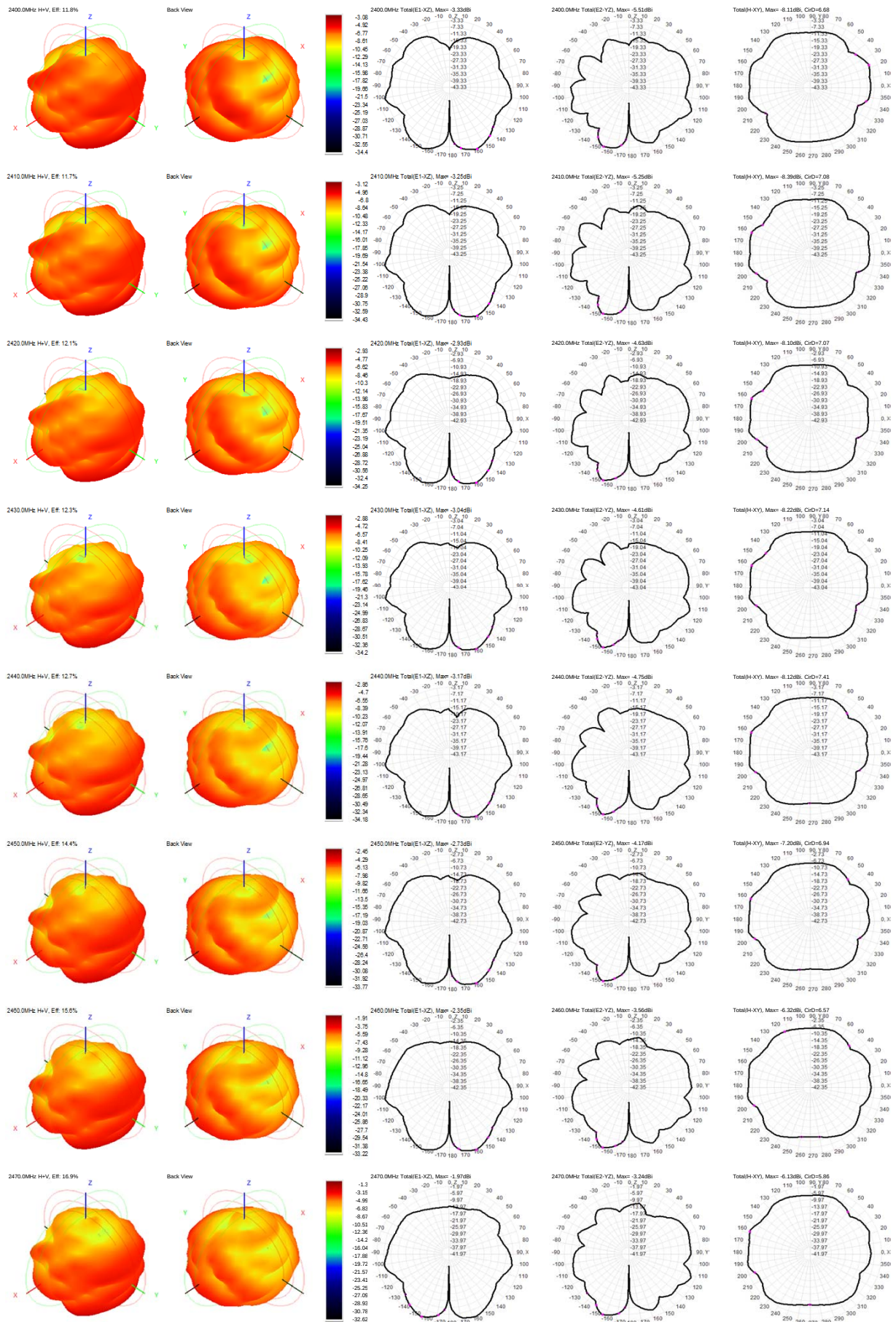


Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-3.08	-3.12	-2.93	-2.88	-2.86	-2.45	-1.91	-1.30	-0.91	-1.18	-0.69
Efficiency (%)	11.80	11.69	12.13	12.27	12.75	14.38	15.56	16.86	18.20	18.40	20.30

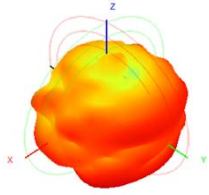
Freespace Environment Performance – WIFI

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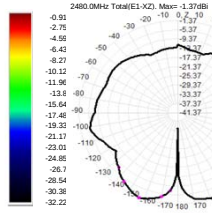
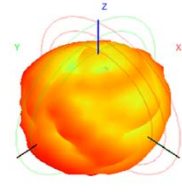




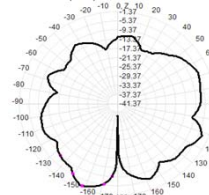
2480.0MHz H+V, ER: 18.2%



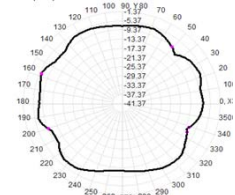
Back View



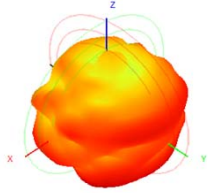
2480.0MHz Total(E2-YZ), Max=-2.93dB



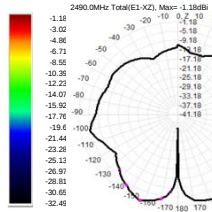
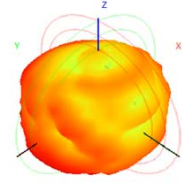
Total(H+V), Max=-6.33dB, CRD=6.68



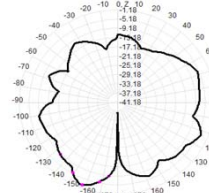
2490.0MHz H+V, ER: 18.4%



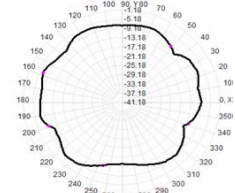
Back View



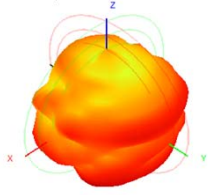
2490.0MHz Total(E2-YZ), Max=-2.67dB



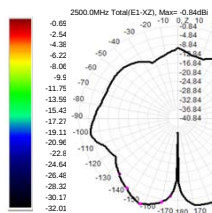
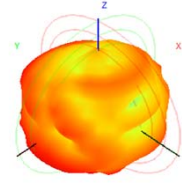
Total(H+V), Max=-6.76dB, CRD=7.89



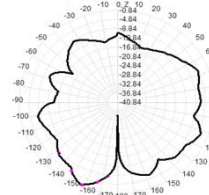
2500.0MHz H+V, ER: 20.3%



Back View



2500.0MHz Total(E2-YZ), Max=-2.26dB



Total(H+V), Max=-6.03dB, CRD=9.02

