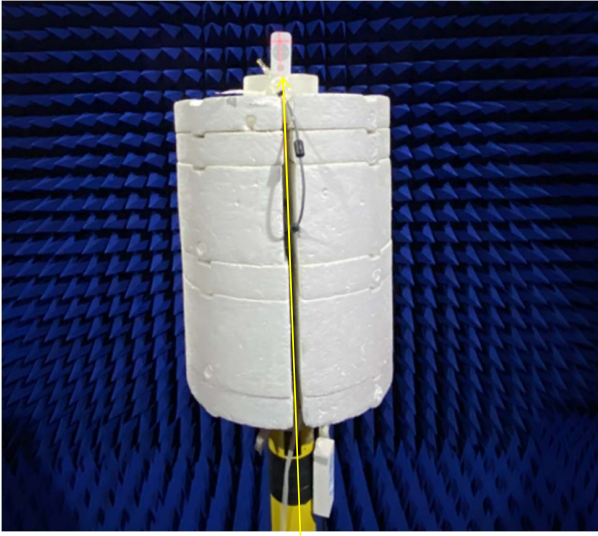


Antenna Study

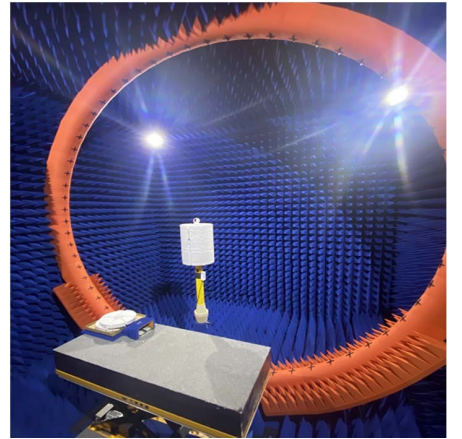
- **Client Name:Guangdong RAEX Intelligent Technology Co., Ltd**
- **Project Name: Bluetooth remote control**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2023.09.15**

PCB Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

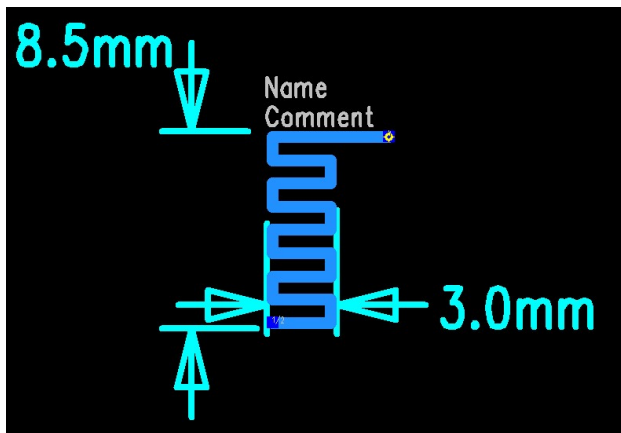


Testing 3D microwave darkroom(6m*6m*6m)

PCB Antenna

Dongguan UB Electronics Co., Ltd

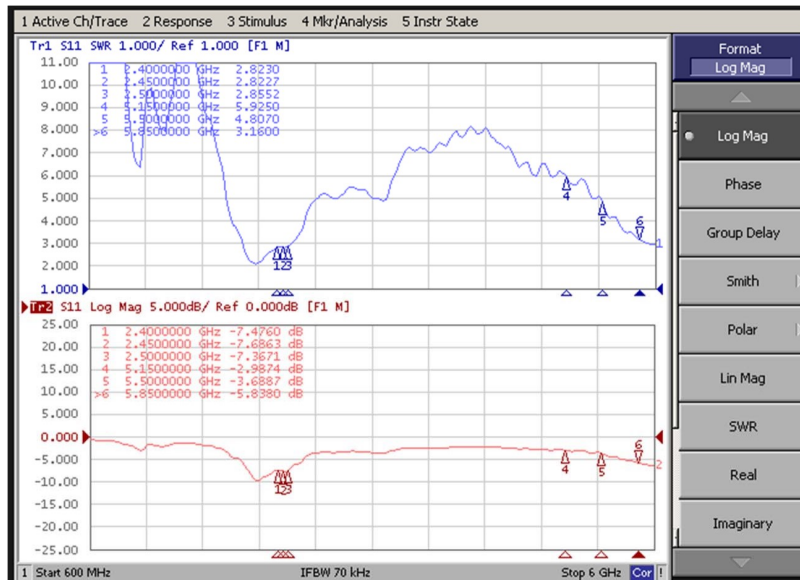
- Antenna name: 2.4G
- Antenna Type: PCB
- Covers : 2.4G



Antenna

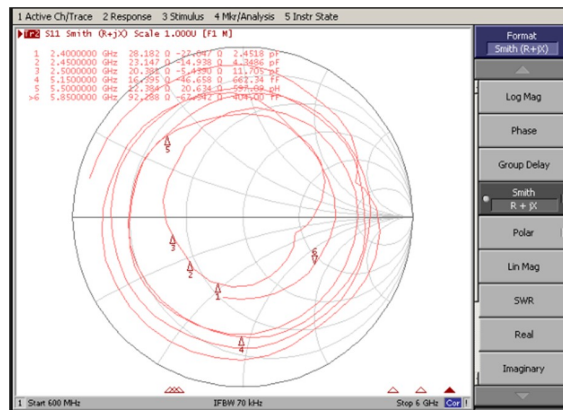
S Parameter_Return Loss&VSWR

Dongguan UB Electronics Co., Ltd



Efficiency and Gain-Smith

Dongguan UB Electronics Co., Ltd



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)	0.15	0.25	0.23	-0.10	-0.37	-0.20	-0.08	-0.06	-0.07	-0.44	-0.57
Efficiency (%)	20.36	19.73	19.33	18.78	18.50	18.86	19.04	19.02	18.25	16.99	16.75

