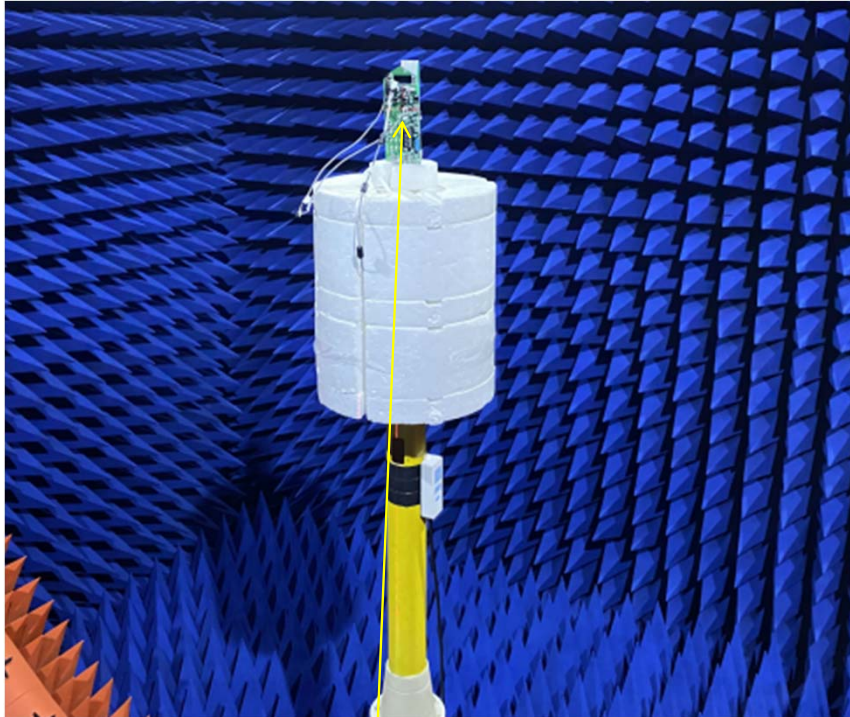


2.4G-PCB板载蓝牙天线 Antenna Study

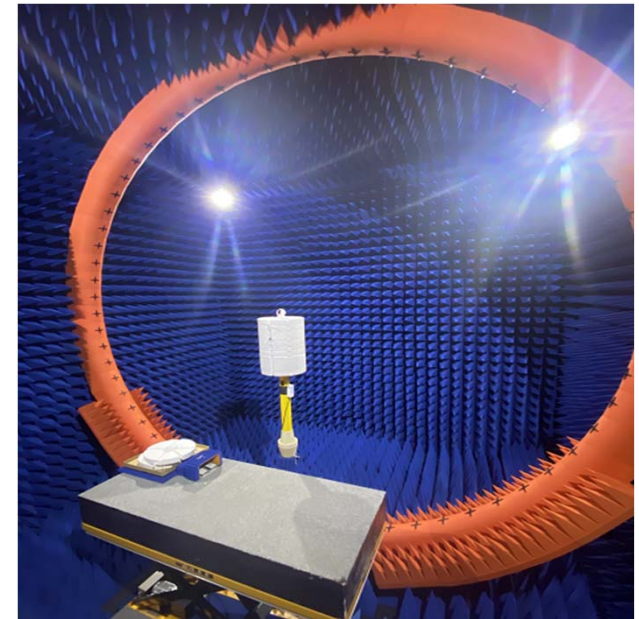
- **Client Name:**立讯检测
- **Project Name:**2.4G-PCB板载蓝牙天线
- **Debugging frequency band:** 2400-2500MHz
- **Valuation date:** 2022.11.12

Internal Antenna

Dongguan UB Electronics Co., Ltd



Testing environment

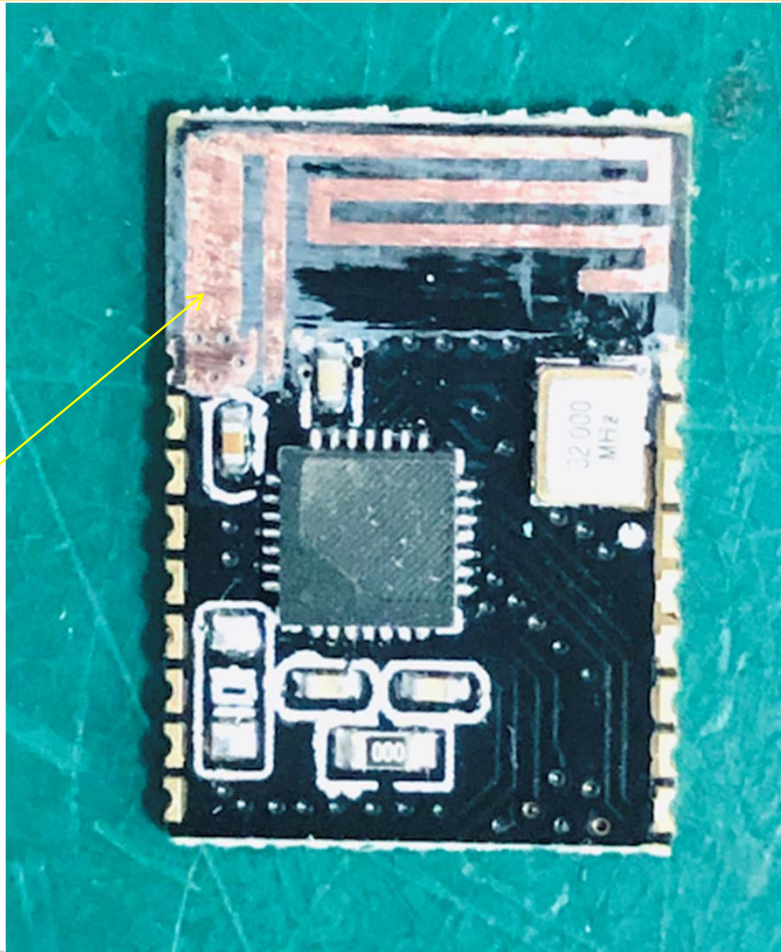


Testing 3D microwave darkroom(6m*6m*6m)

External Antenna

Dongguan UB Electronics Co., Ltd

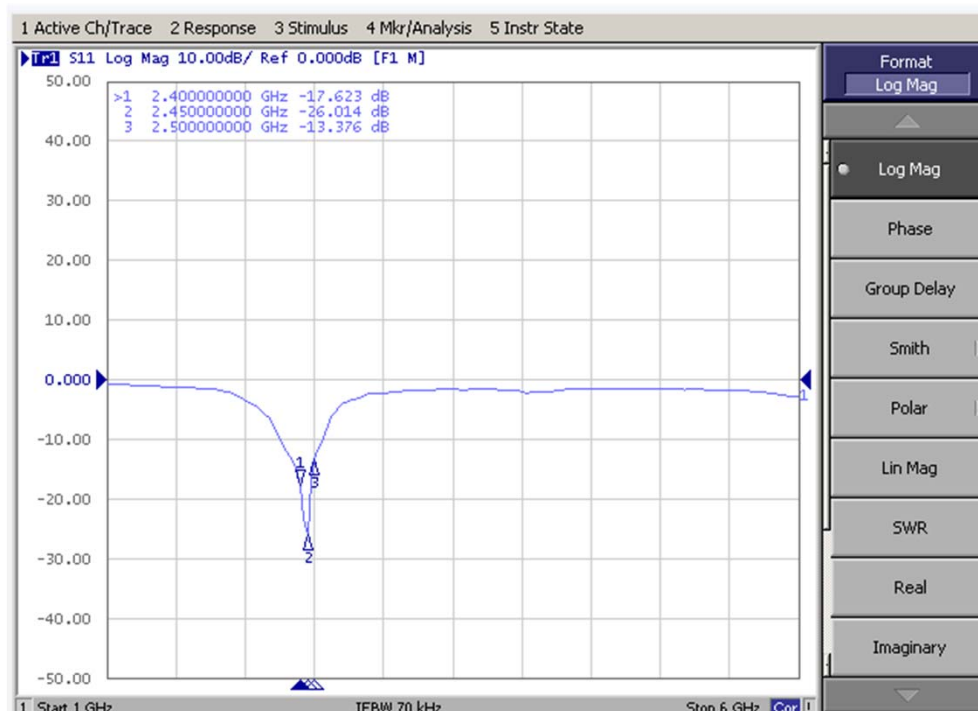
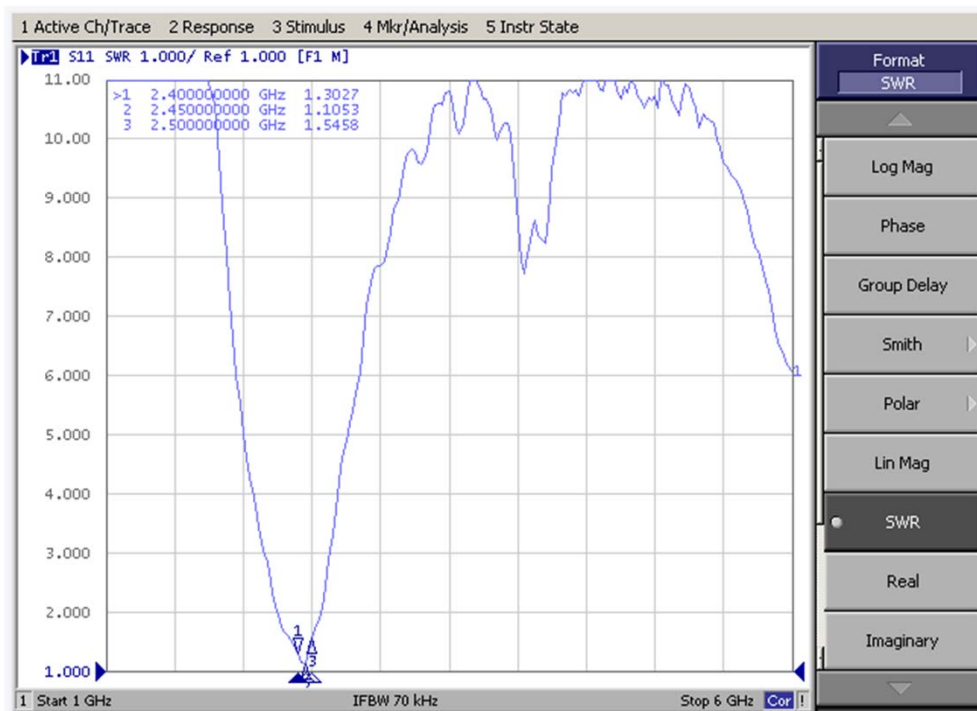
- Antenna name: 2.4G
- Antenna Type: PCB
- Covers : 2400-2500MHz



Antenna

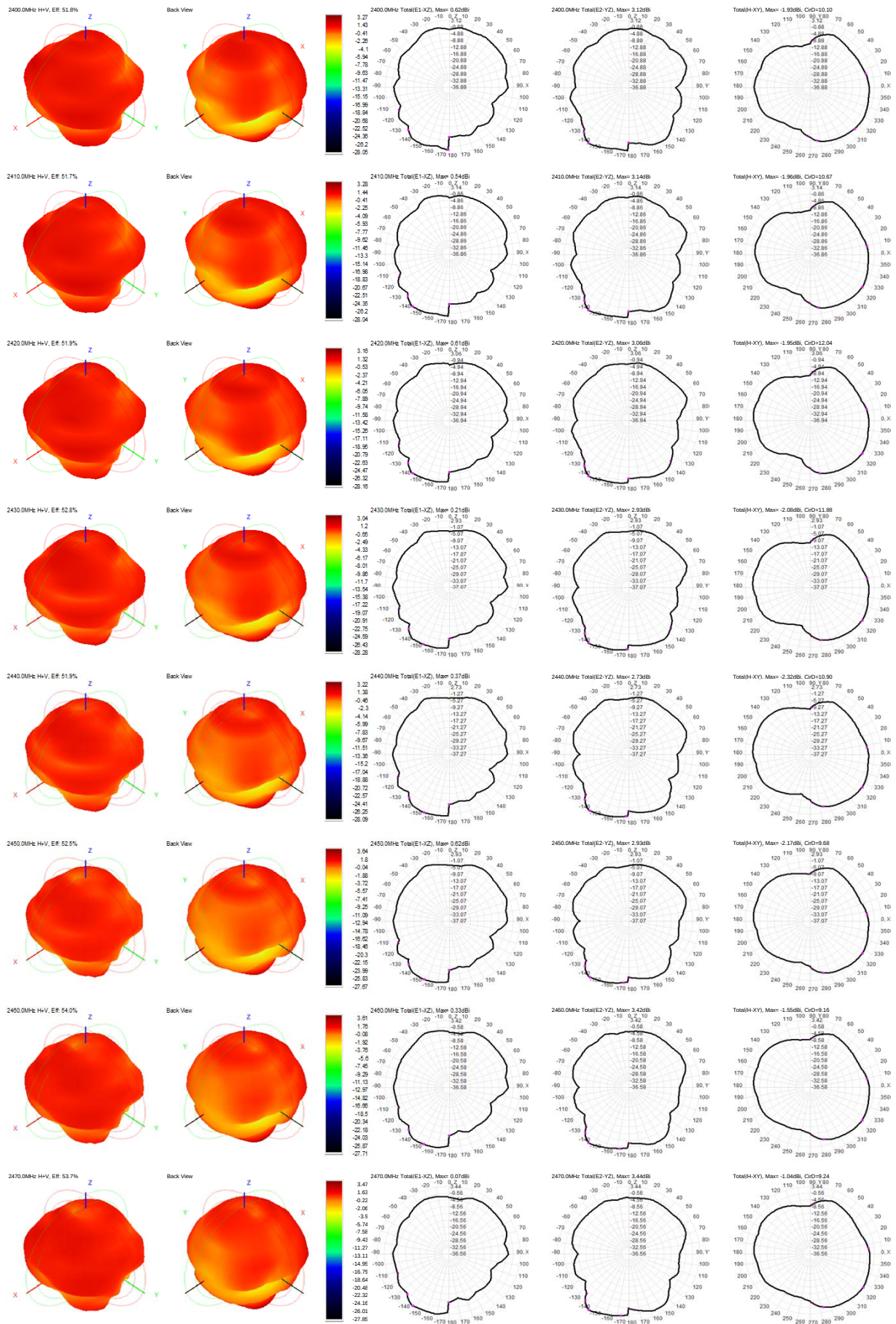
S Parameter_Return Loss&VSWR

Dongguan UB Electronics Co., Ltd

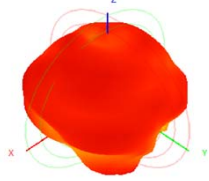


Efficiency and Gain

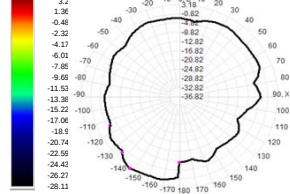
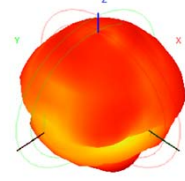
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.27	3.28	3.16	3.04	3.22	3.64	3.61	3.47	3.20	3.04	3.25
Efficiency (%)	51.81	51.73	51.92	52.79	51.86	52.47	54.02	53.67	51.59	50.01	50.19



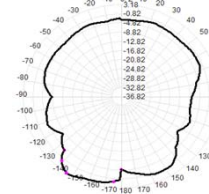
2480.0MHz H+V, Eff: 51.6%



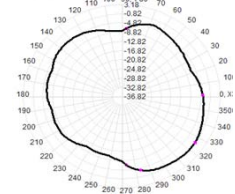
Back View



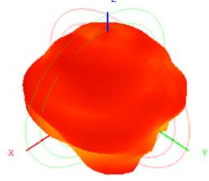
2480.0MHz Total(E2-YZ), Max: 3.18dB



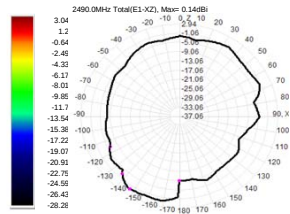
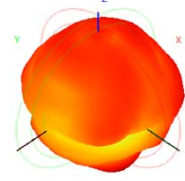
Total(H+V), Max: -1.08dB, Crd=9.87



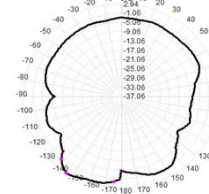
2490.0MHz H+V, Eff: 50.0%



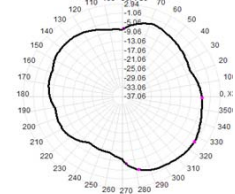
Back View



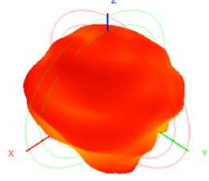
2490.0MHz Total(E2-YZ), Max: 2.94dB



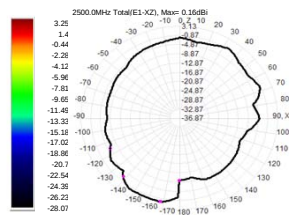
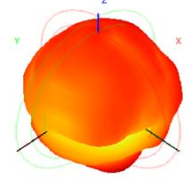
Total(H+V), Max: -1.75dB, Crd=11.32



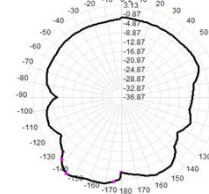
2500.0MHz H+V, Eff: 50.2%



Back View



2500.0MHz Total(E2-YZ), Max: 3.13dB



Total(H+V), Max: -2.18dB, Crd=11.68

