



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

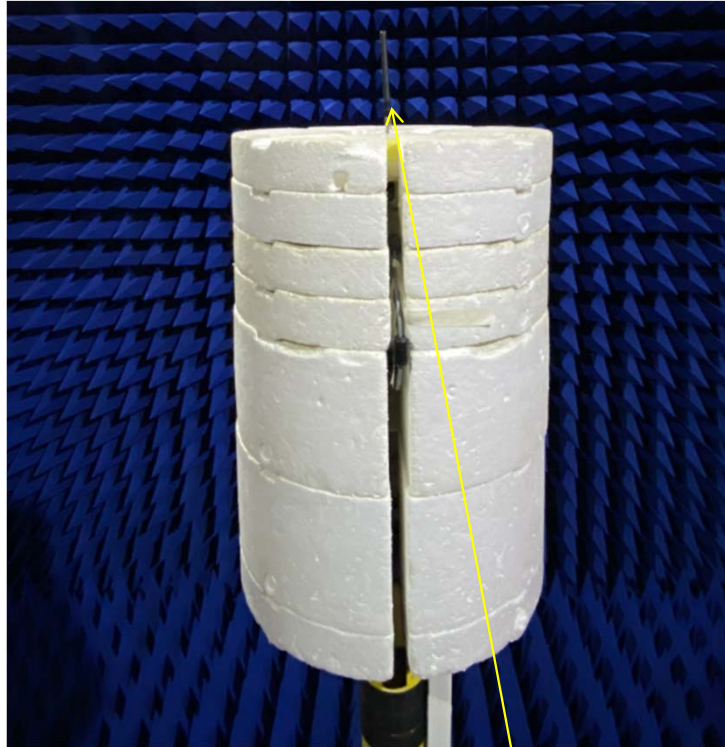
Address: Building 79, New Sun City, Lin Village, Tangxia Town, Dongguan City, Guangdong Province

Antenna Study

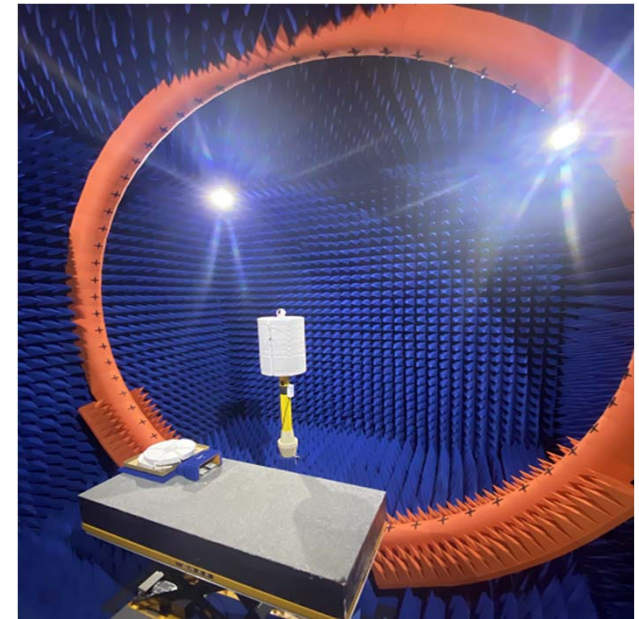
- **Client Name: Bird Home Automation GmbH**
- **Project Name : Mini Dome Camera**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2024.09.18**
- **Linkman contacts: he hai ping 13686295193**

External Antenna

Dongguan UB Electronics Co., Ltd



Testing environment



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

External Antenna

Dongguan UB Electronics Co., Ltd

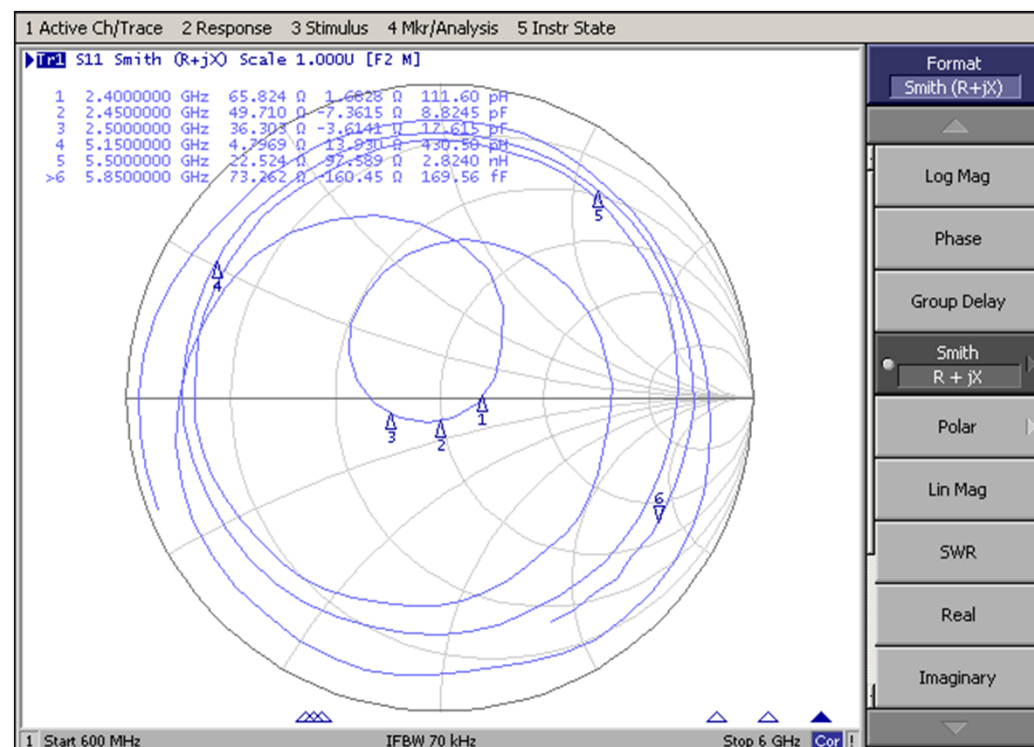
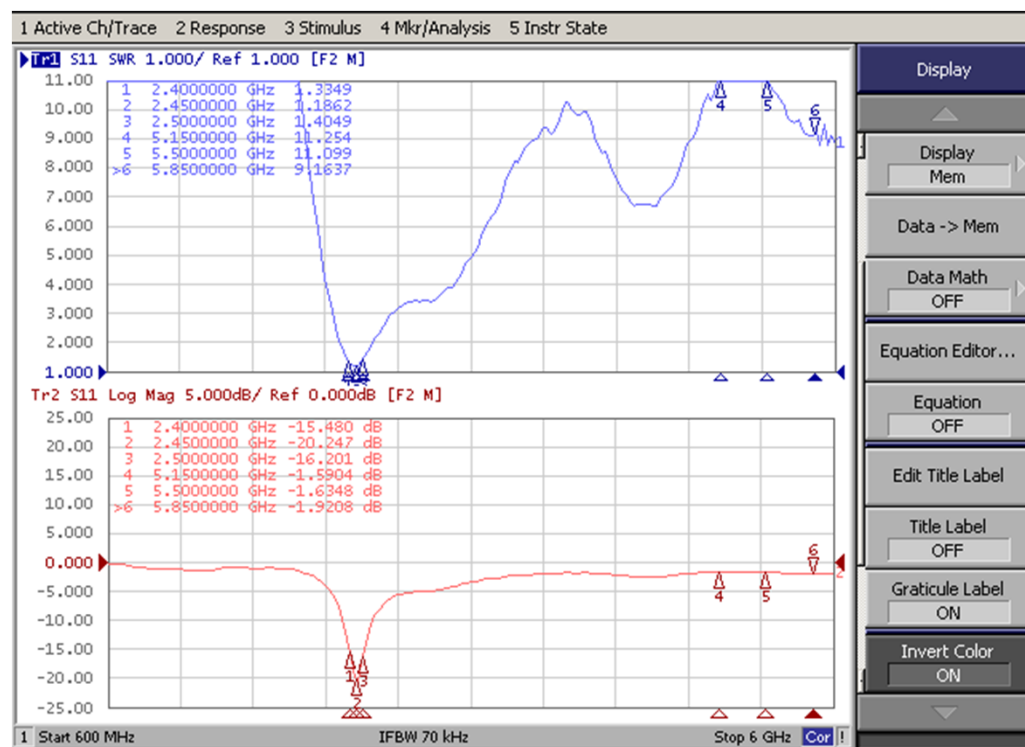


- Antenna name: 2.4G
- Antenna Type: External
- Covers : 2400/2500MHz

Antenna

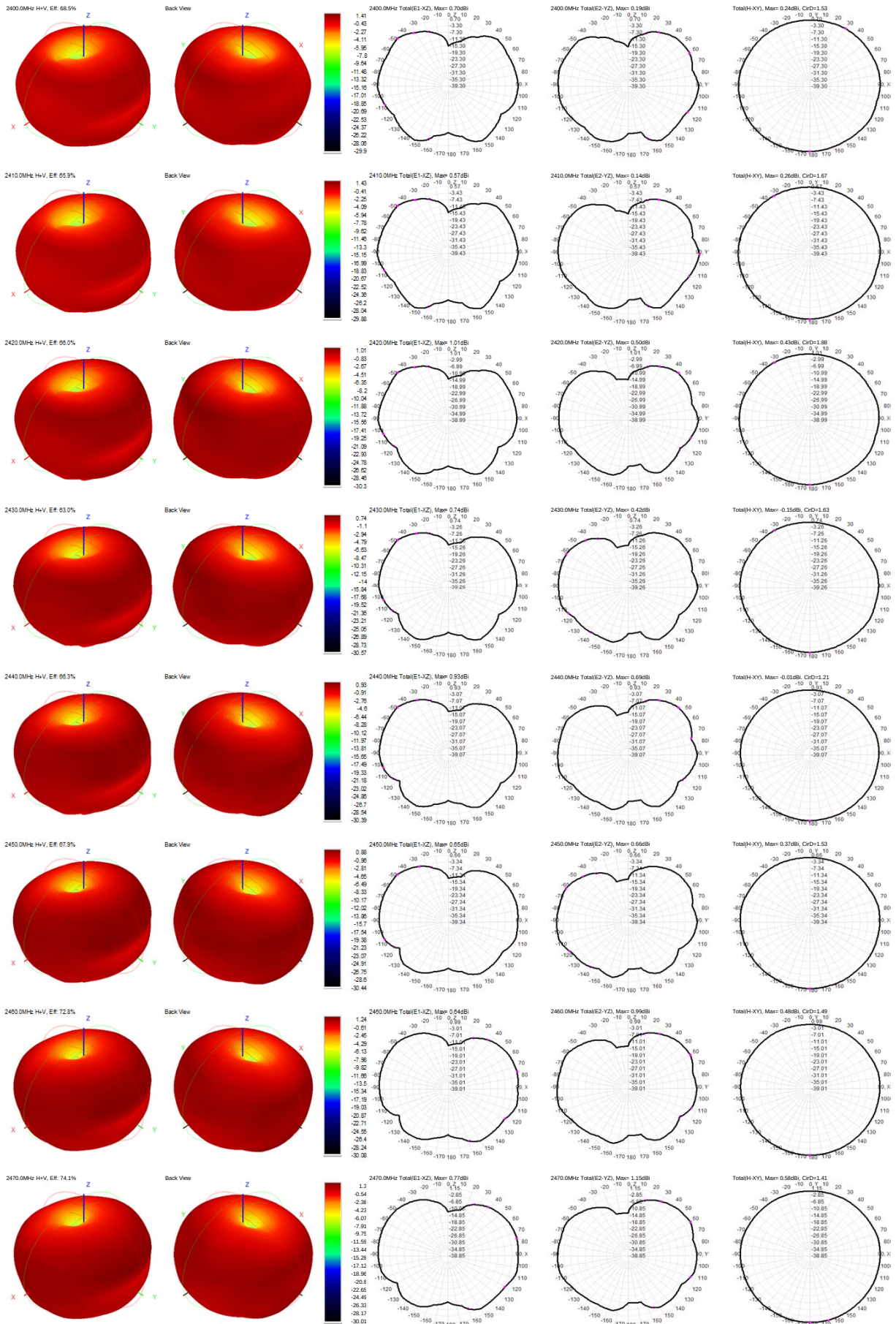
S Parameter_Return Loss&VSWR-Smith

Dongguan UB Electronics Co., Ltd

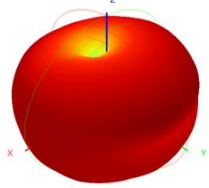


Efficiency and Gain

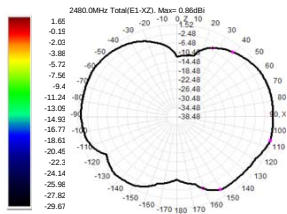
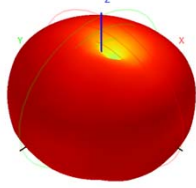
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	1.41	1.43	1.01	0.74	0.93	0.88	1.24	1.30	1.65	1.96	1.91
Efficiency (%)	68.48	65.92	66.01	63.01	66.27	67.90	72.82	74.09	79.19	78.64	77.21



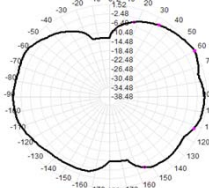
2480.0MHz H+V, ER: 79.2%



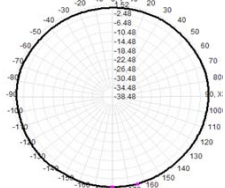
Back View



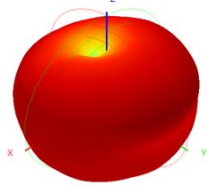
2480.0MHz Total(E2-YZ), Max= 1.52dB



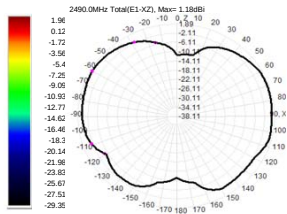
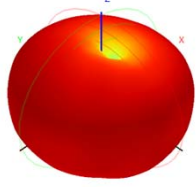
Total(H+V), Max= 0.75dB, CrD=1.01



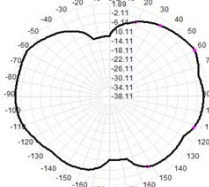
2490.0MHz H+V, ER: 78.6%



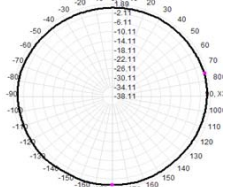
Back View



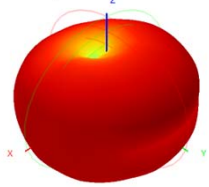
2490.0MHz Total(E2-YZ), Max= 1.89dB



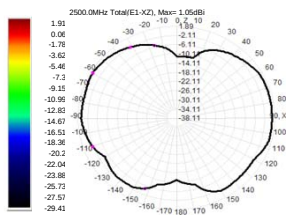
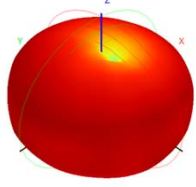
Total(H+V), Max= 0.50dB, CrD=0.87



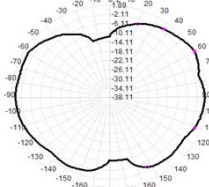
2500.0MHz H+V, ER: 77.2%



Back View



2500.0MHz Total(E2-YZ), Max= 1.89dB



Total(H+V), Max= 0.86dB, CrD=1.30

