



好天线 · 优比造

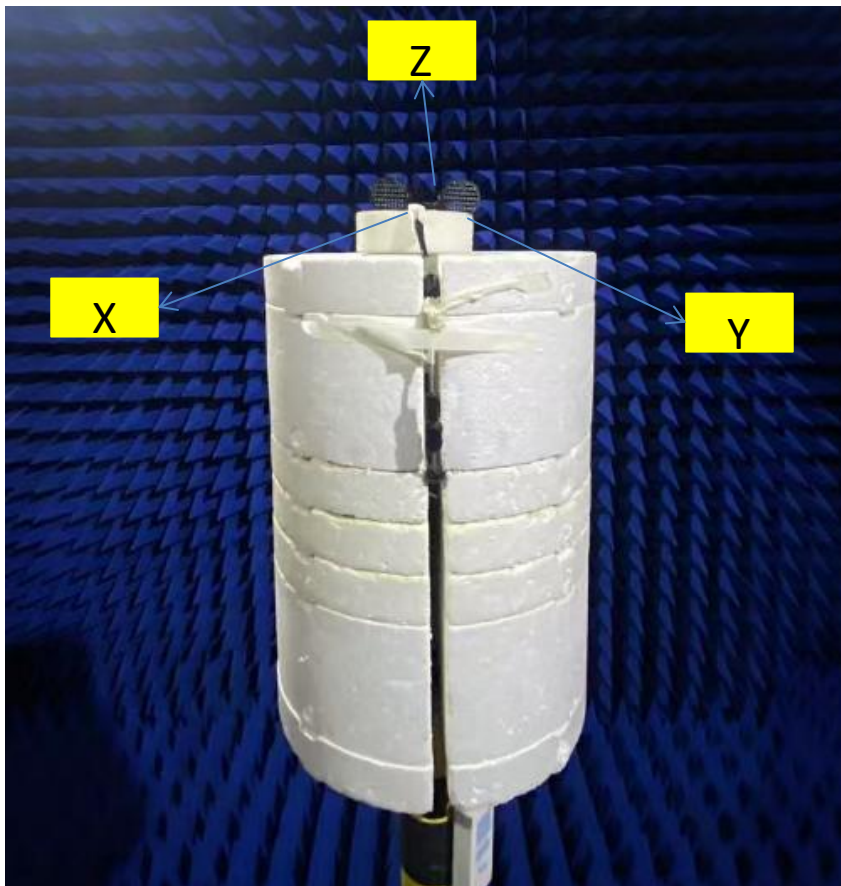
东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

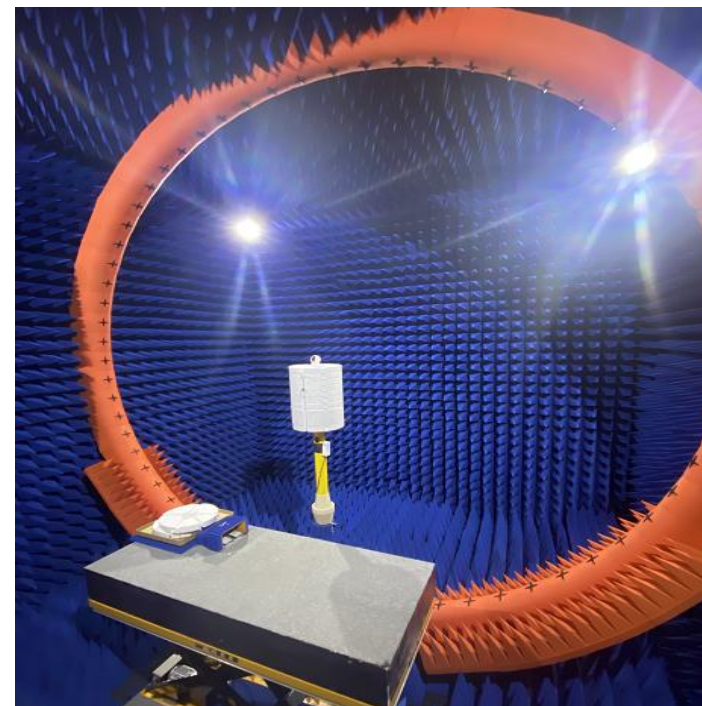
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan, Guangdong, China

Antenna Study

- **Client Name: Topsion Packaging Ltd**
- **Project Name: Helmet with LED goggle**
- **Model: Bloggles**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2025.02.21**

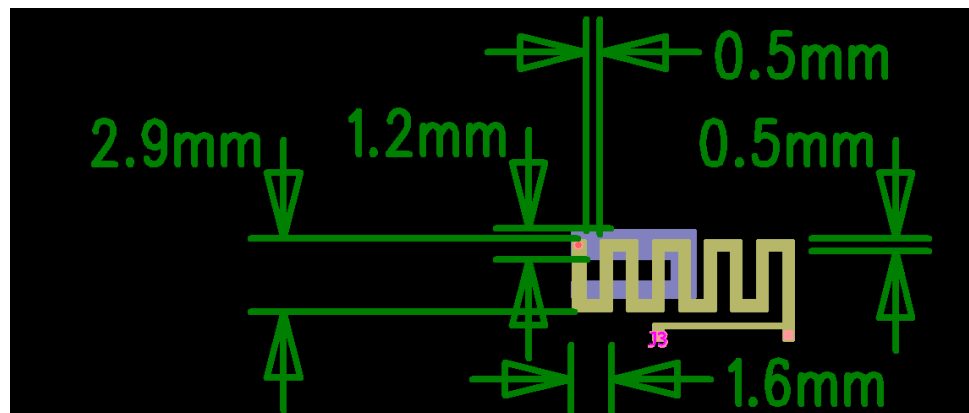
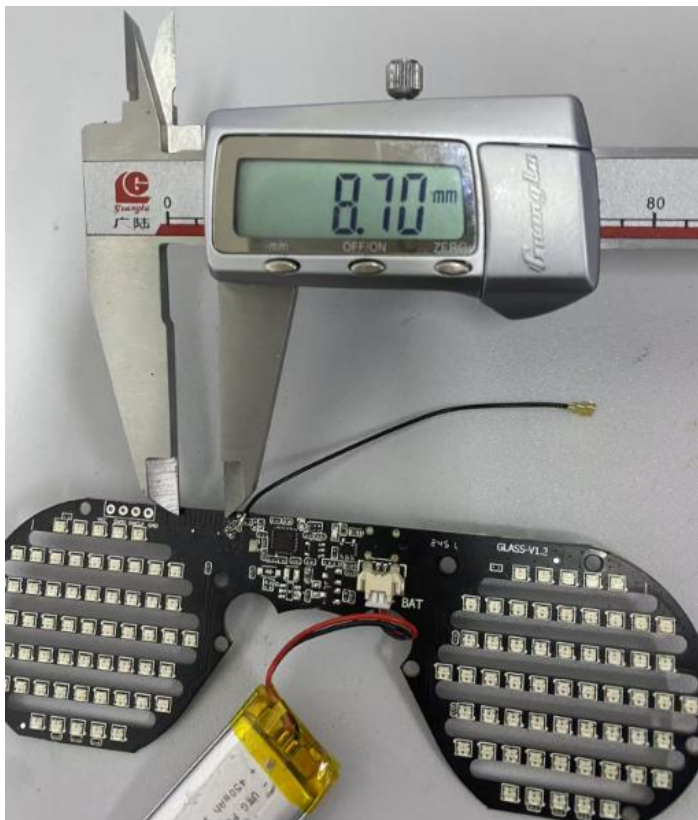


Testing environment



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

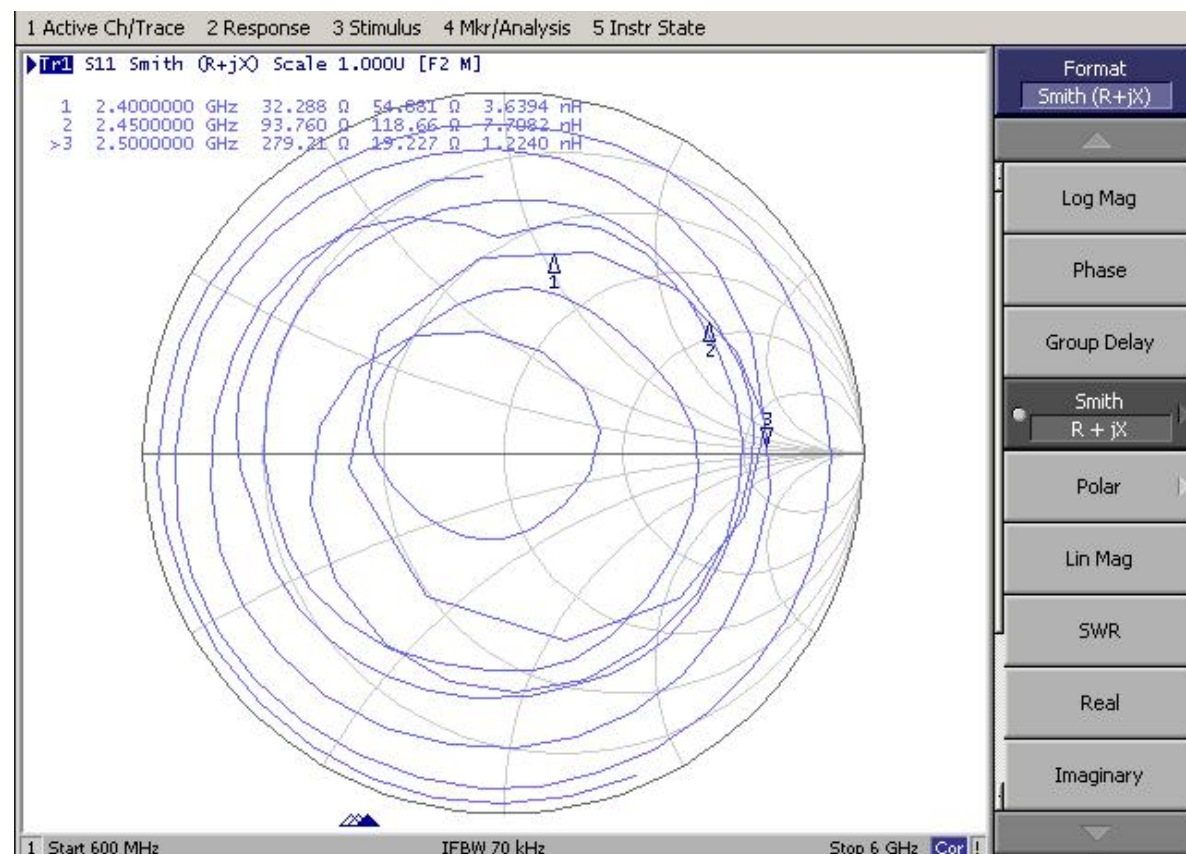
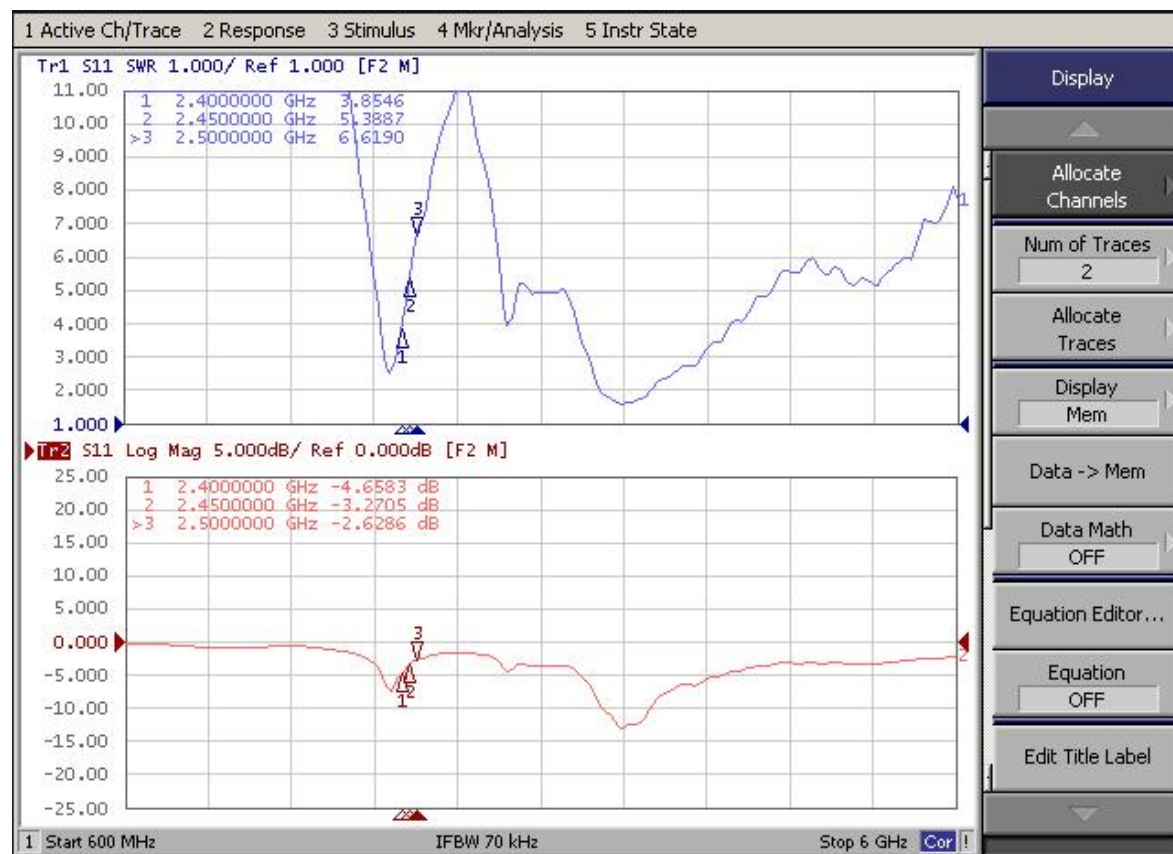
- Antenna name: 2.4G
- Covers : 2400/2500MHz



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)	-4.02	-4.25	-4.37	-4.55	-5.00	-5.16	-5.39	-5.29	-5.53	-5.21	-5.48
Efficiency (%)	8.44	7.79	7.47	7.15	6.50	6.31	5.92	5.94	5.58	5.89	5.46

