



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

## 3# Antenna Study

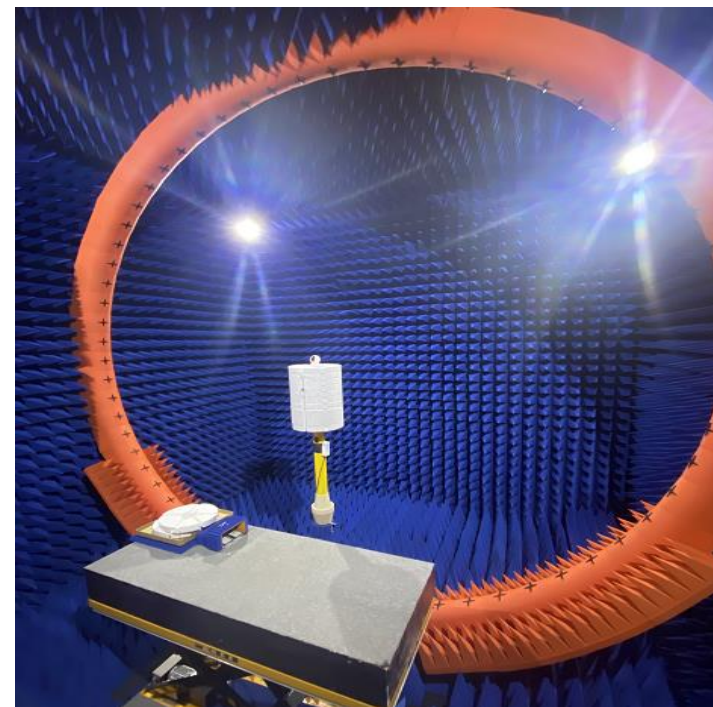
- **Client Name:立讯检测**
- **Project Name:3#**
- **Debugging frequency band: 2400-2500MHz**
- **Valuation date: 2022.11.21**

# Internal Antenna

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Testing environment



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

# External Antenna

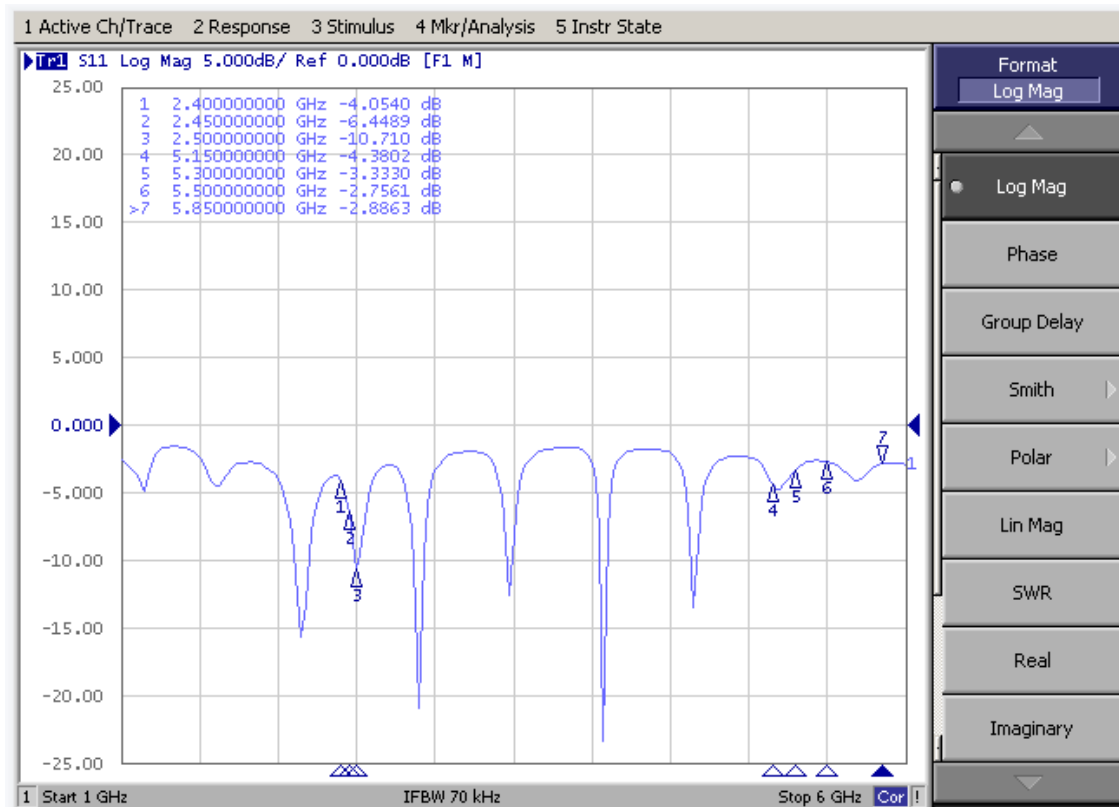
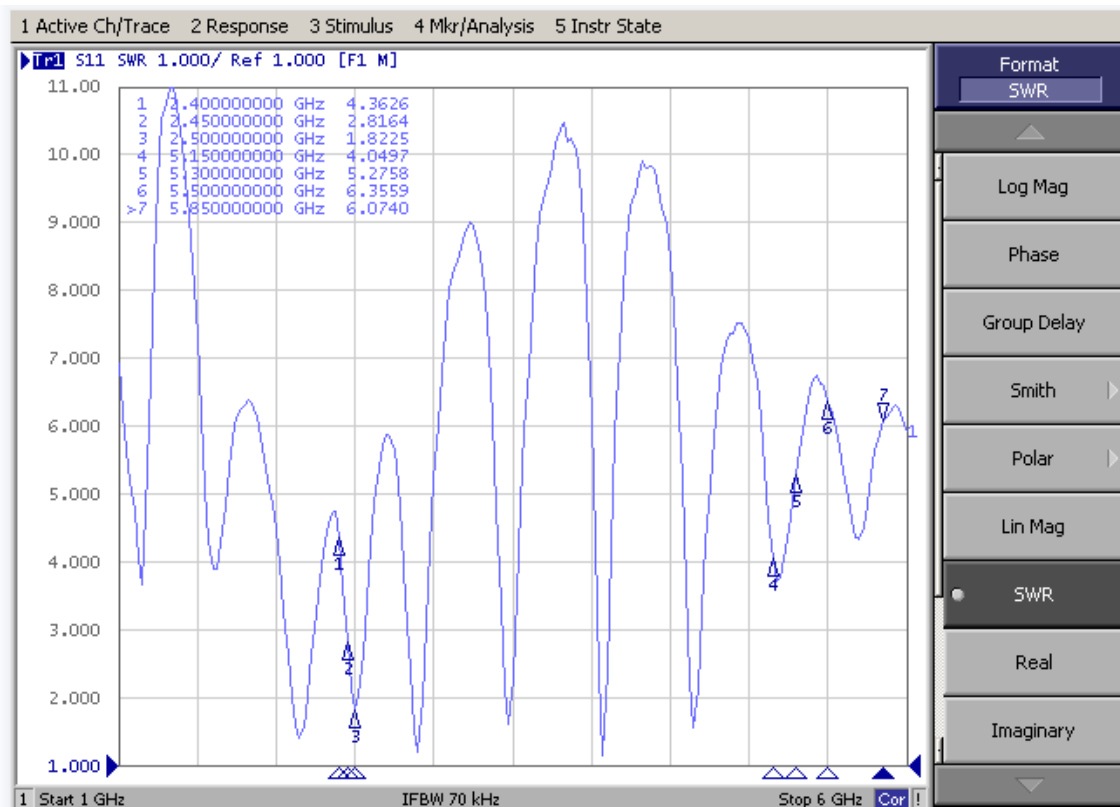
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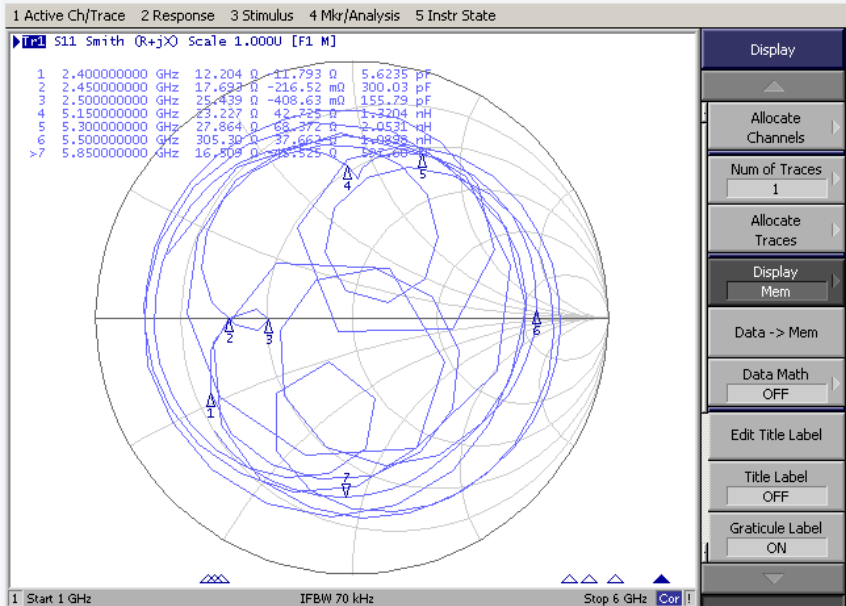
Antenna

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

# S Parameter\_Return Loss&VSWR



# Efficiency and Gain-Smith



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)	0.91	1.18	0.80	0.74	0.85	1.36	1.99	2.16	1.74	1.61	1.47
Efficiency (%)	31.20	32.60	32.74	35.08	37.03	38.93	43.16	44.60	43.12	44.12	44.76

# Freespace Environment Performance – WIFI

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