



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

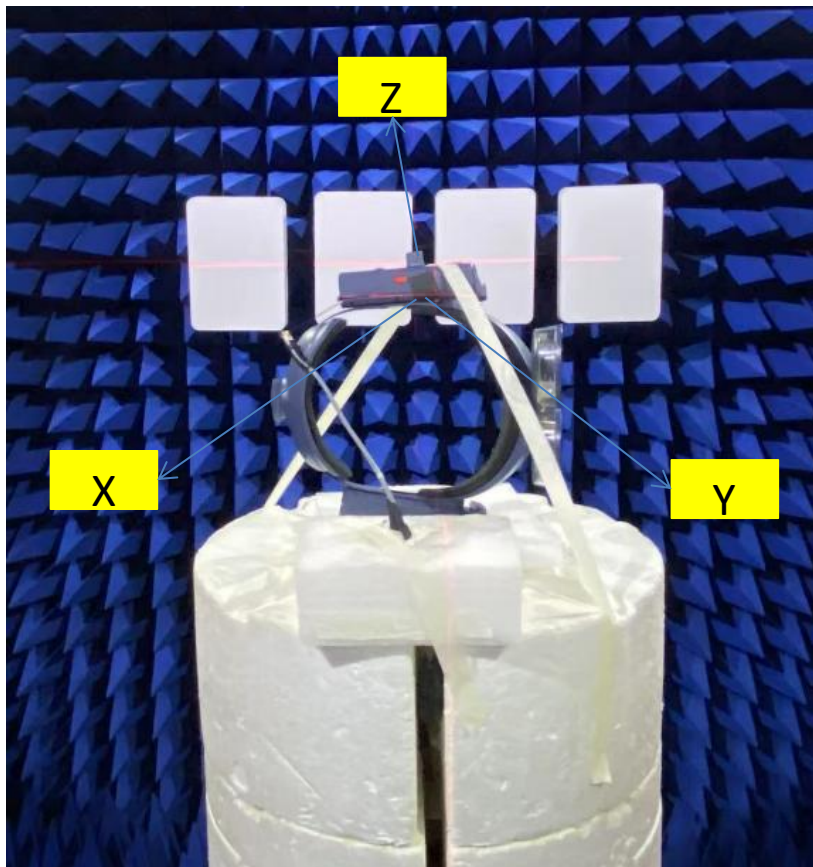
## Antenna Study

- **Client Name: Gudong Technology Co., Ltd**
- **Project Name: Antenna**
- **Model: C3000H-ANT**
- **Debugging frequency band: 2400-2500MHz; 5150-5850MHz**
- **Valuation date: 2025.06.23**

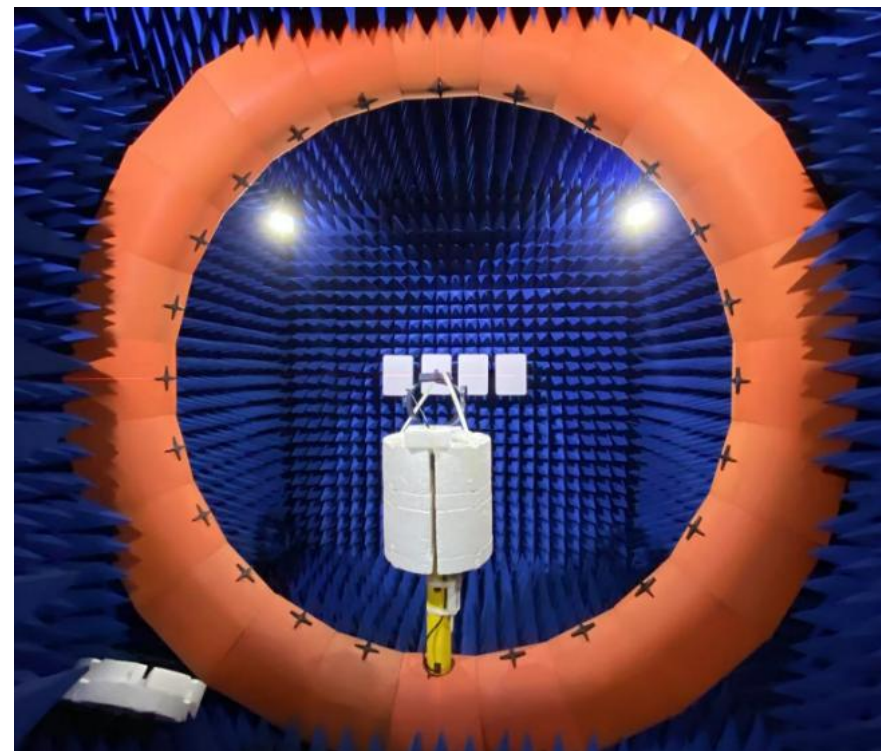
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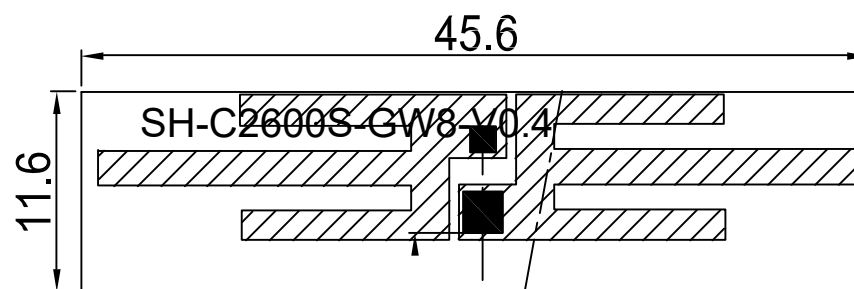


Testing environment



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

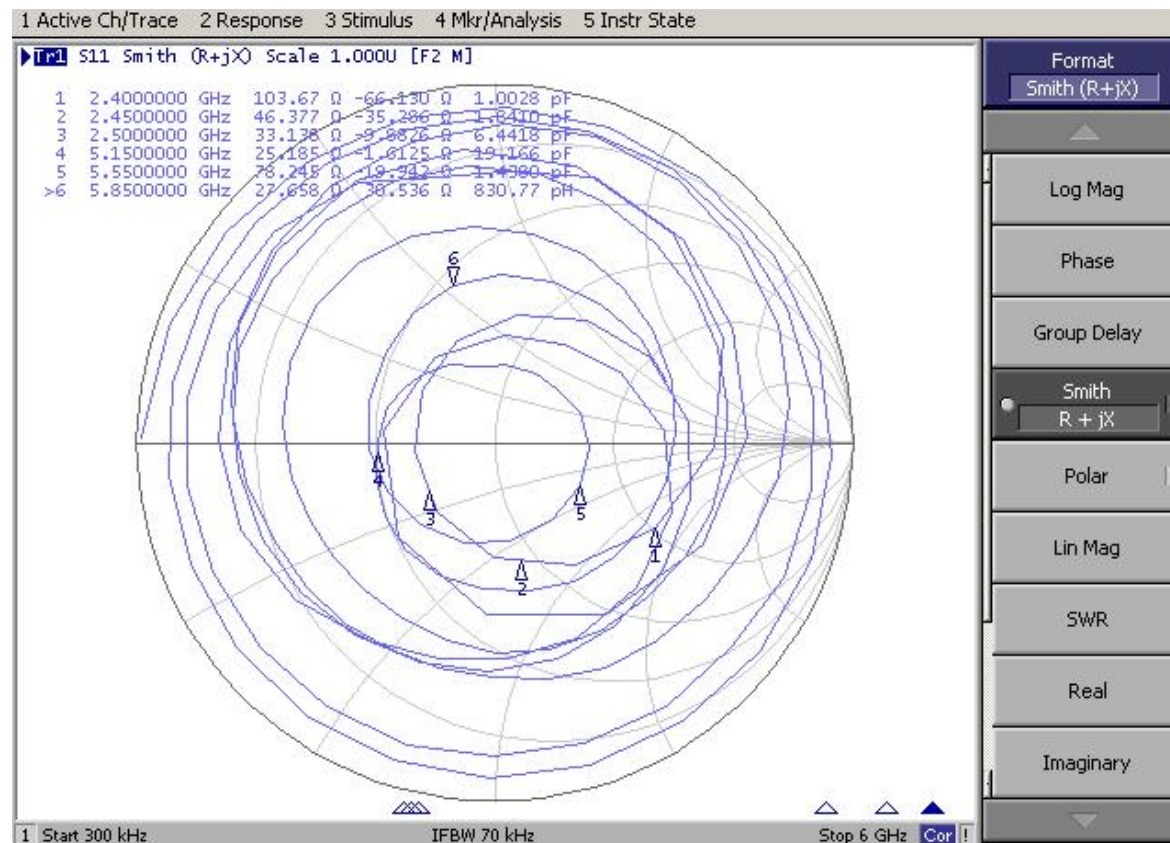
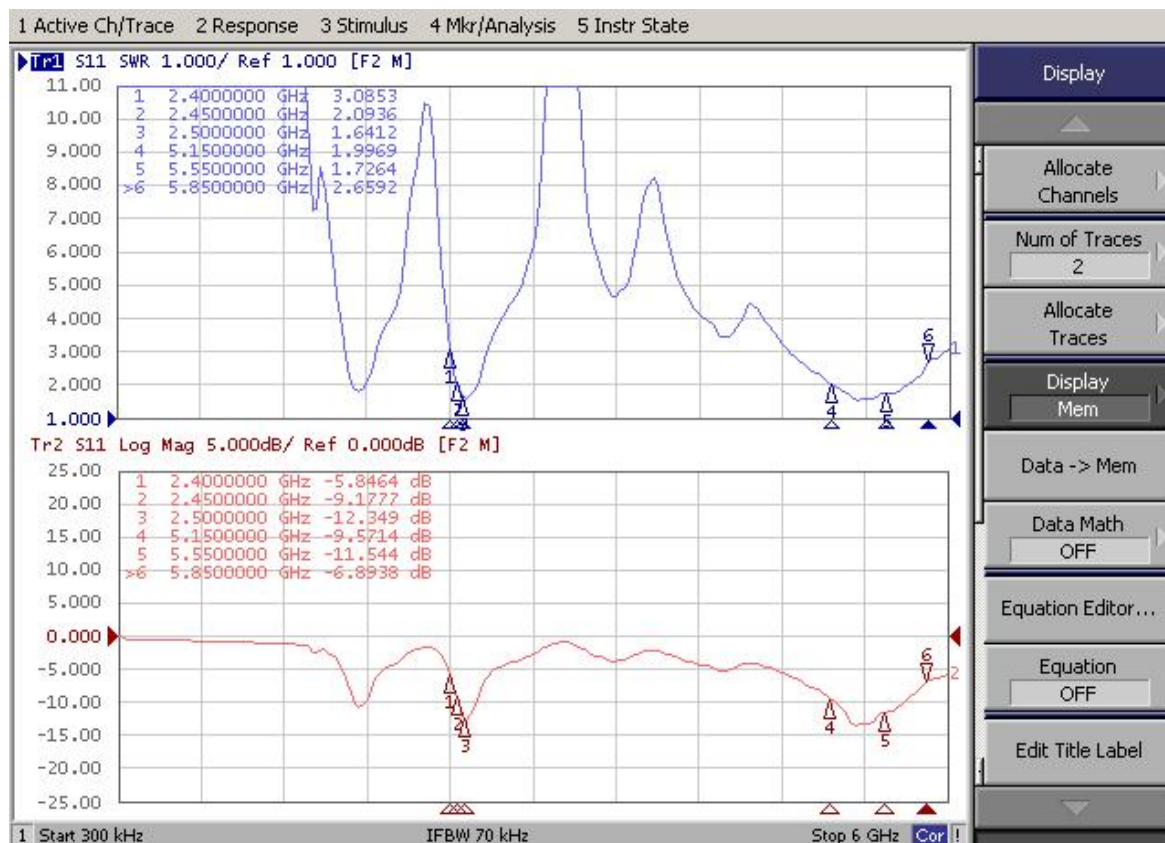
- Antenna name: 2.4G+5.8G
- Covers : 2400/2500/5150/5850MHz



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)      | -2.47  | -2.34  | -1.90  | -1.89  | -1.46  | -1.60  | -1.34  | -1.53  | -1.39  | -1.27  | -1.01  |
| Efficiency (%)  | 20.95  | 21.67  | 23.97  | 22.95  | 25.01  | 24.38  | 26.20  | 26.27  | 28.17  | 29.05  | 30.08  |

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     | 22     | 23     | 24     | 25     | 26     |
| 5150.0 | 5200.0 | 5250.0 | 5300.0 | 5350.0 | 5400.0 | 5450.0 | 5500.0 | 5550.0 | 5600.0 | 5650.0 | 5700.0 | 5750.0 | 5800.0 | 5850.0 |
| 0.91   | 1.34   | 1.39   | 0.96   | 1.19   | 1.24   | 1.63   | 0.86   | 1.07   | 1.58   | 1.22   | 1.42   | 1.31   | 0.53   | 0.86   |
| 35.70  | 40.42  | 43.85  | 38.87  | 41.27  | 42.67  | 38.86  | 35.04  | 33.96  | 34.41  | 32.89  | 36.75  | 35.07  | 30.51  | 34.12  |

