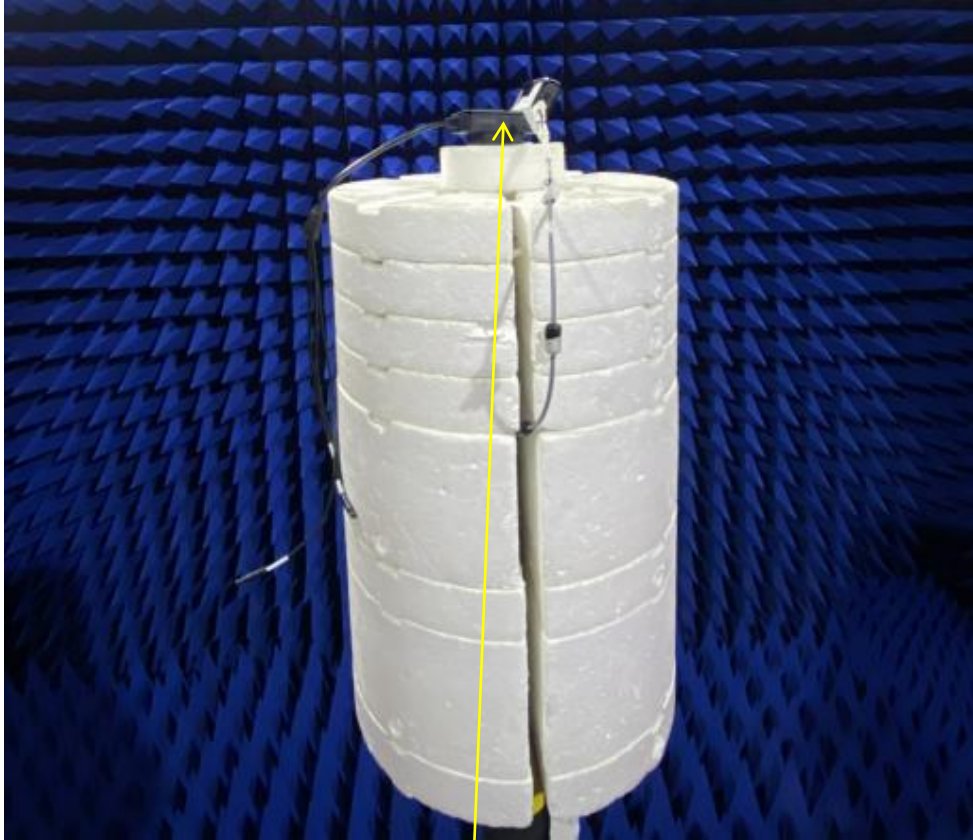


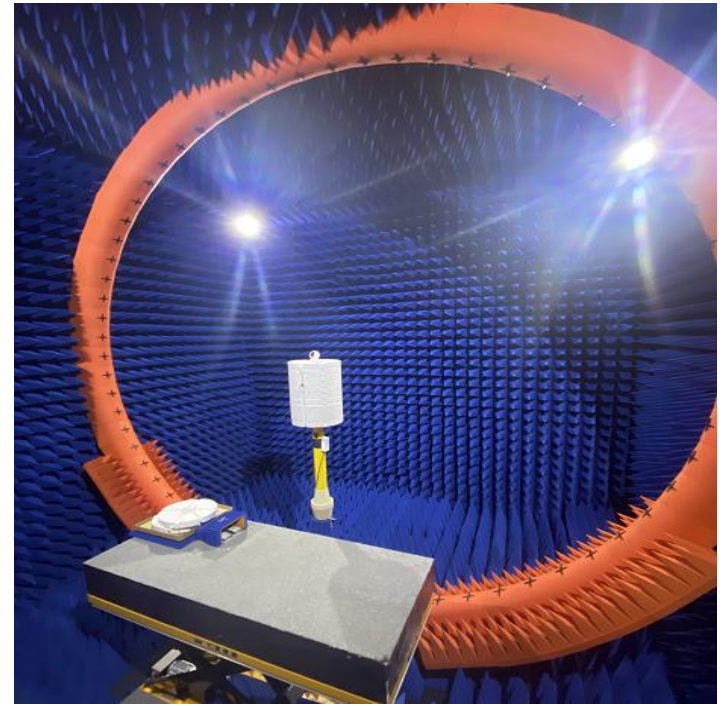


## Antenna Study

- **Client Name: Shenzhen Zhiluyou Technology Co., LTD**
- **Project Name: ZR-3027**
- **Debugging frequency band: 2400-2500MHz & 5150-5850MHz**
- **Valuation date: 2023.06.21**

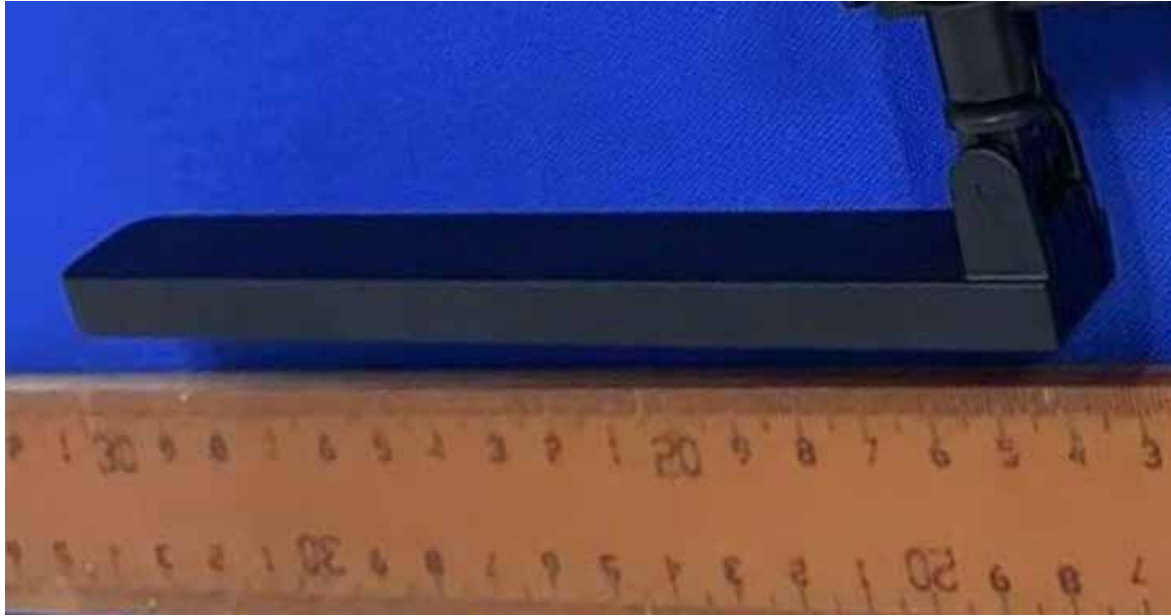


Testing environment



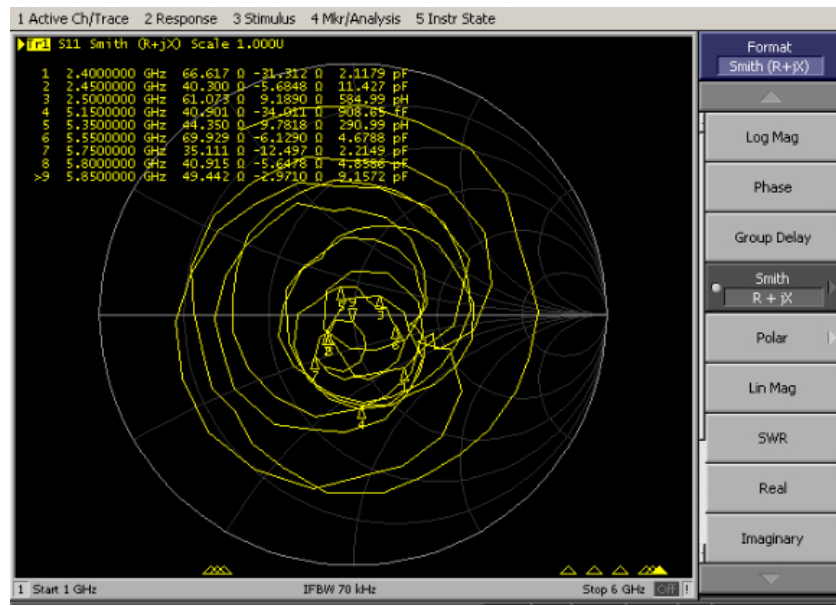
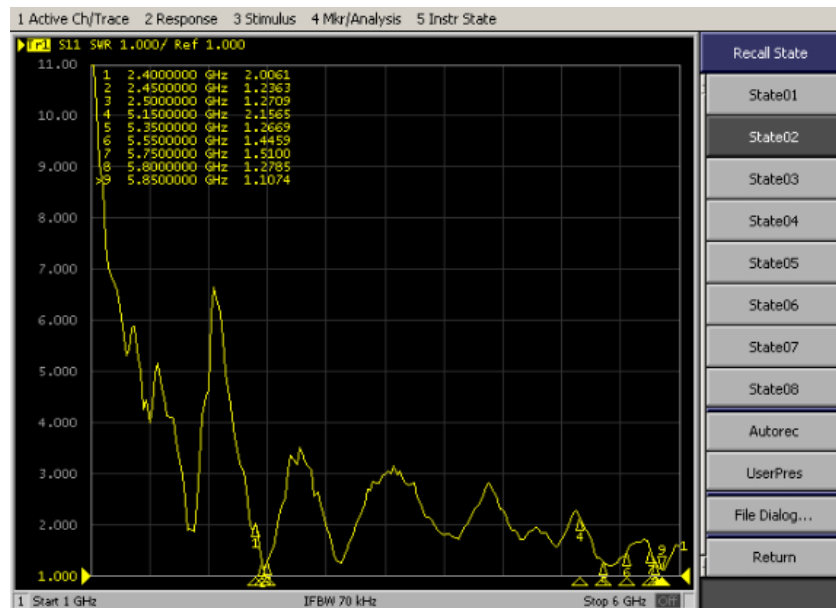
Testing 3D microwave darkroom(6m\*6m\*6m)

# Antenna

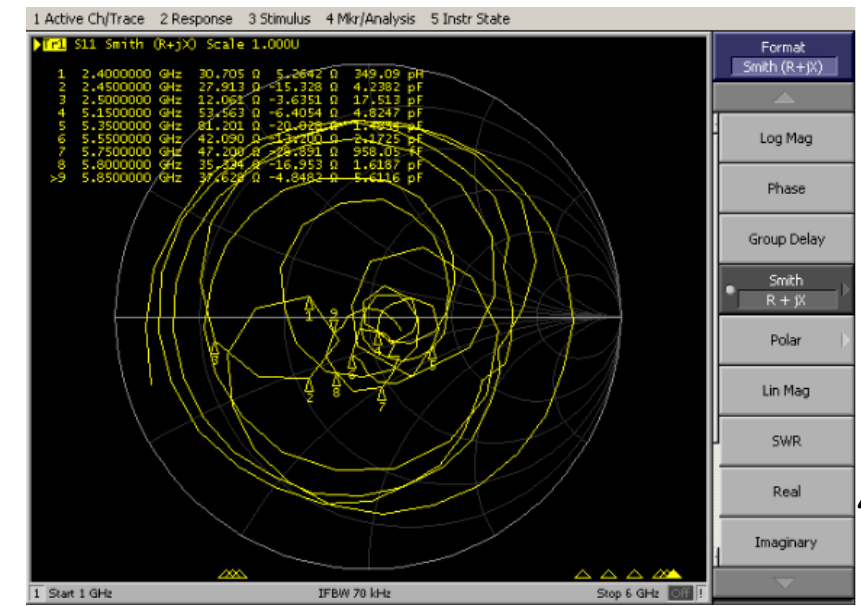
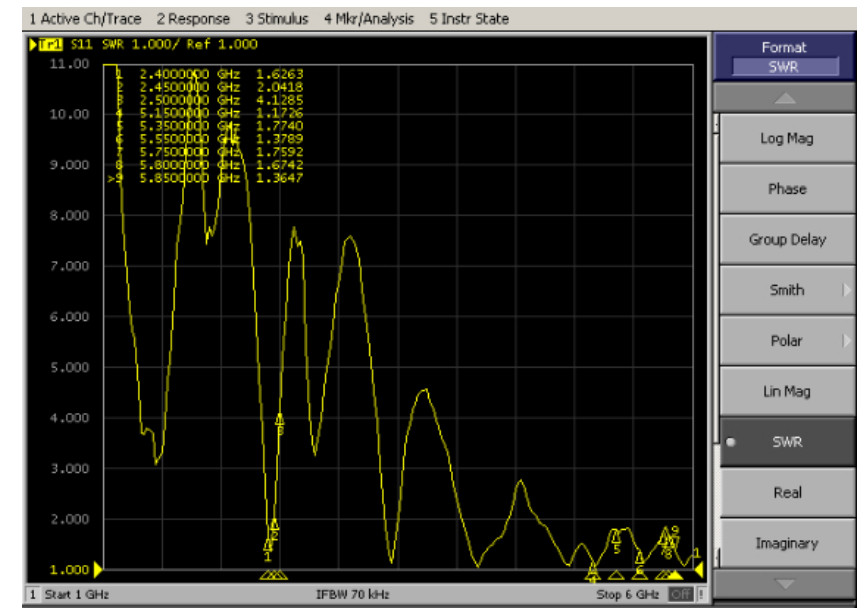


- Antenna name: 2.4G&5.8G
- Antenna Type: monopole
- Covers : 2400-2500MHz&5150-5850MHz

# 2.4G VSWR&Smith



# 5G VSWR&Smith

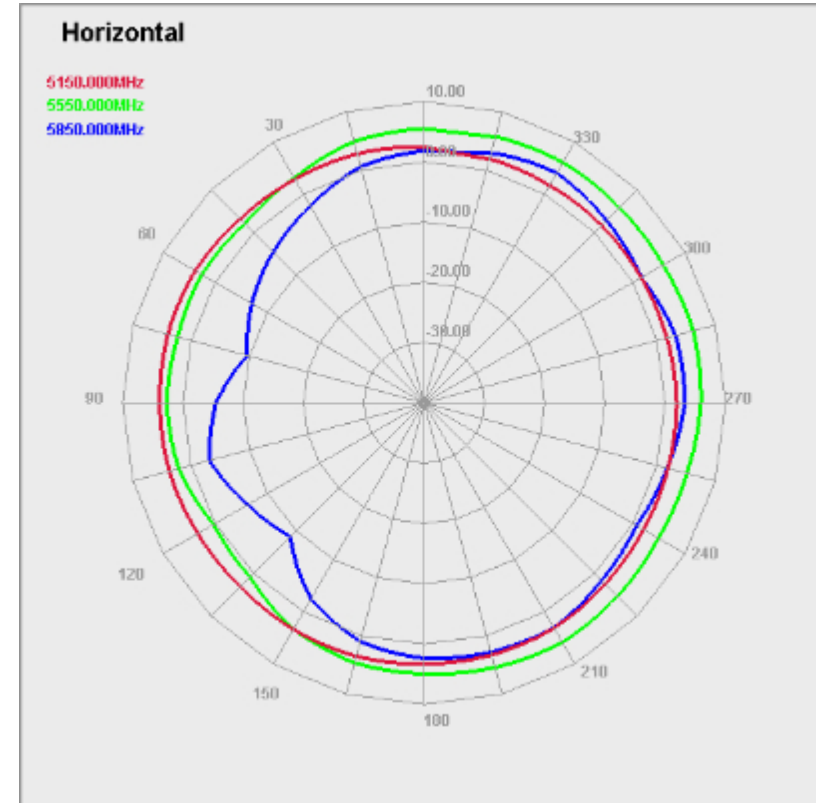
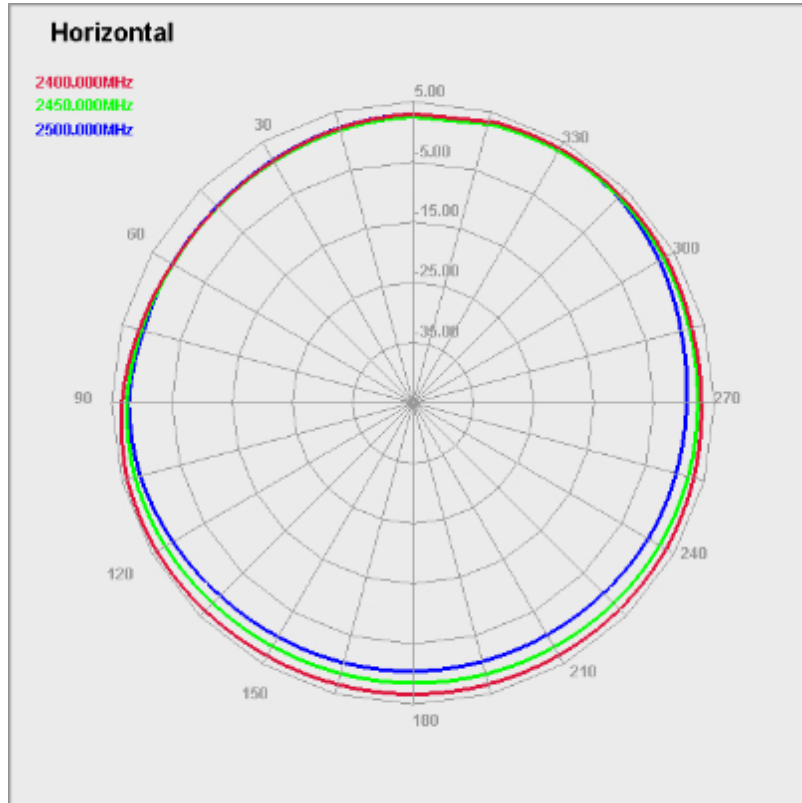


# Efficiency and Gain

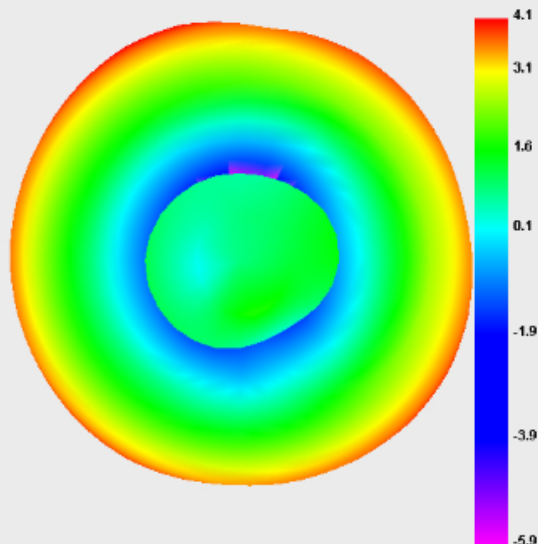
2.4G_1#		
频率(MHz)	效率(%)	增益(dBi)
2400	80.10	5.46
2410	79.35	5.45
2420	76.66	5.40
2430	75.05	5.36
2440	75.79	5.41
2450	76.45	5.41
2460	75.79	5.39
2470	72.76	5.26
2480	71.19	5.36
2490	69.57	5.30
2500	70.56	5.21

5.8G_1#		
频率(MHz)	效率(%)	增益(dBi)
5180	69.37	5.78
5230	68.61	5.61
5280	64.98	5.79
5330	64.03	5.95
5380	66.54	6.20
5430	64.02	6.16
5480	70.58	6.54
5530	68.86	6.57
5580	71.10	6.71
5630	65.39	6.47
5680	69.46	6.67
5730	63.63	6.25
5780	67.74	6.43
5825	59.03	5.33

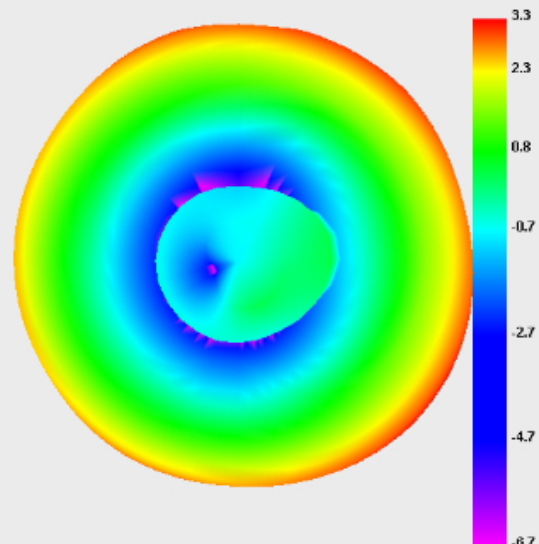
Figure 2 d & 3 d direction



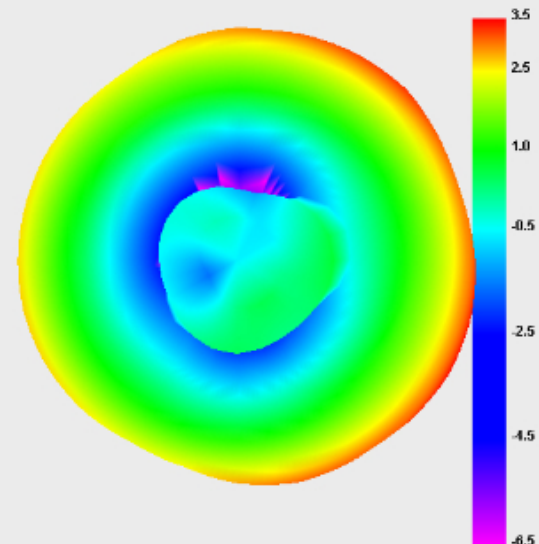
2400.000MHz



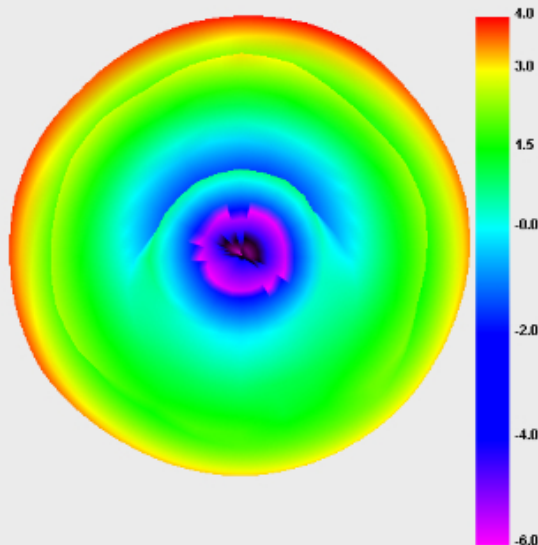
2450.000MHz



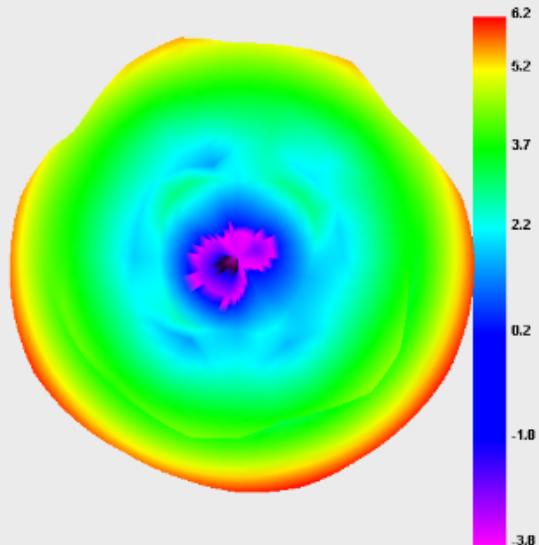
2500.000MHz



5150.000MHz



5550.000MHz



5850.000MHz

