

好天线 · 优比造

Dongguan UB Electronics Co., Ltd

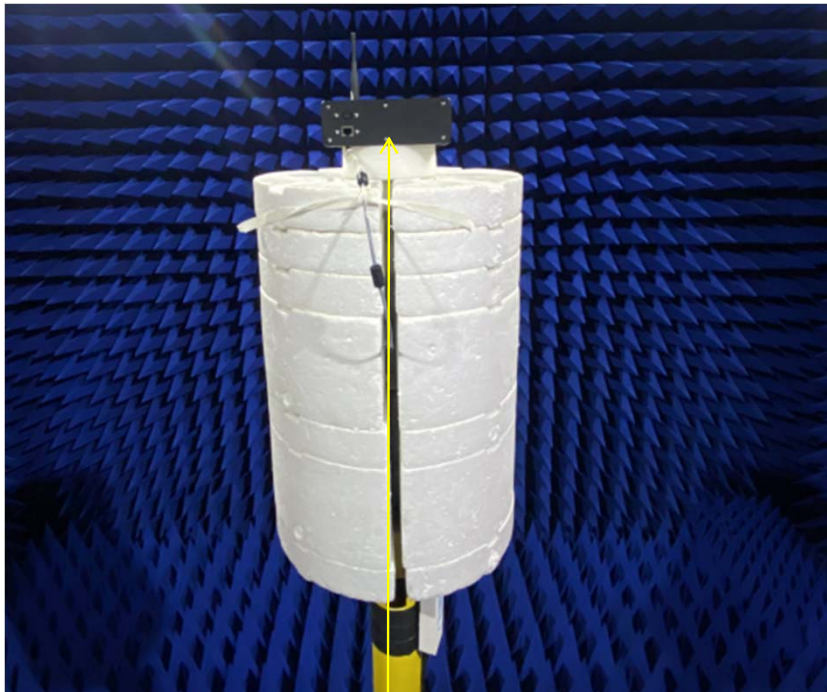
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,
Guangdong Province, China

Antenna Study

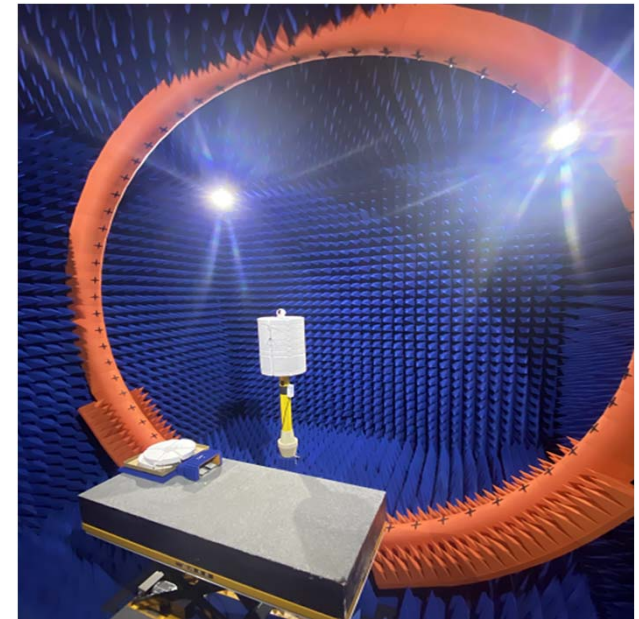
- **Client Name: 34ED LLC, DBA Centegix**
- **Project Name : Gateway**
- **Debugging frequency band: 2.4G**
- **Valuation date: 2023.07.25**

External Antenna

Dongguan UB Electronics Co., Ltd



Testing environment



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

External Antenna

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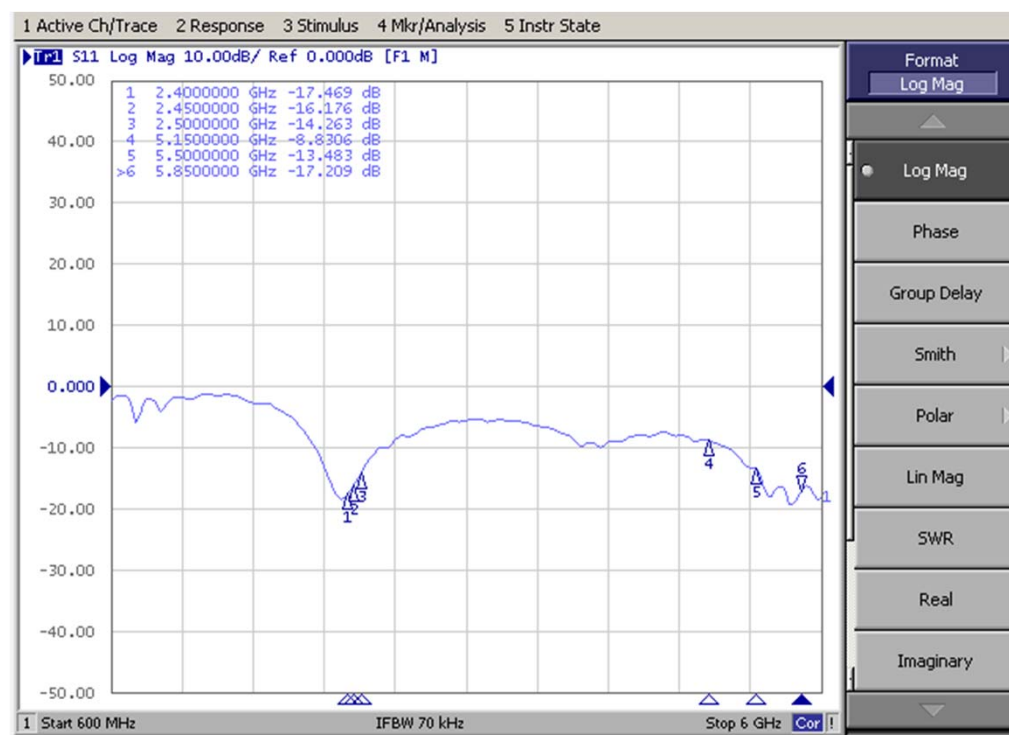
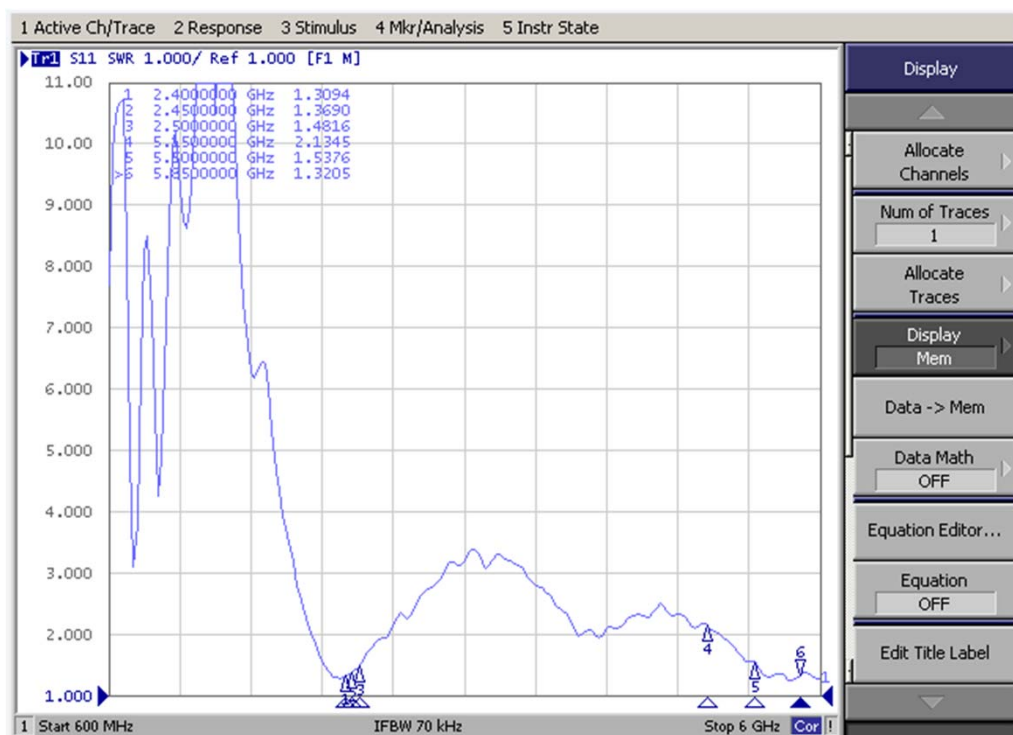


Antenna

- Antenna name: 2.4G
- Antenna Type: External
- Covers : 2.4G

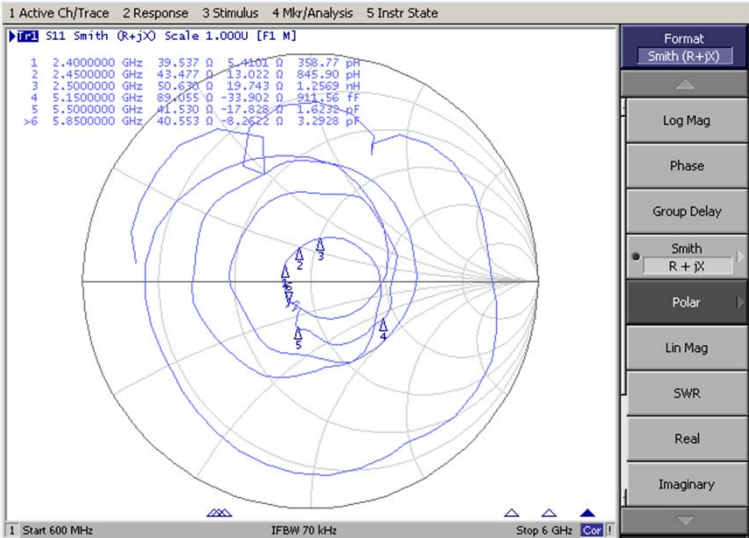
S Parameter_Return Loss&VSWR

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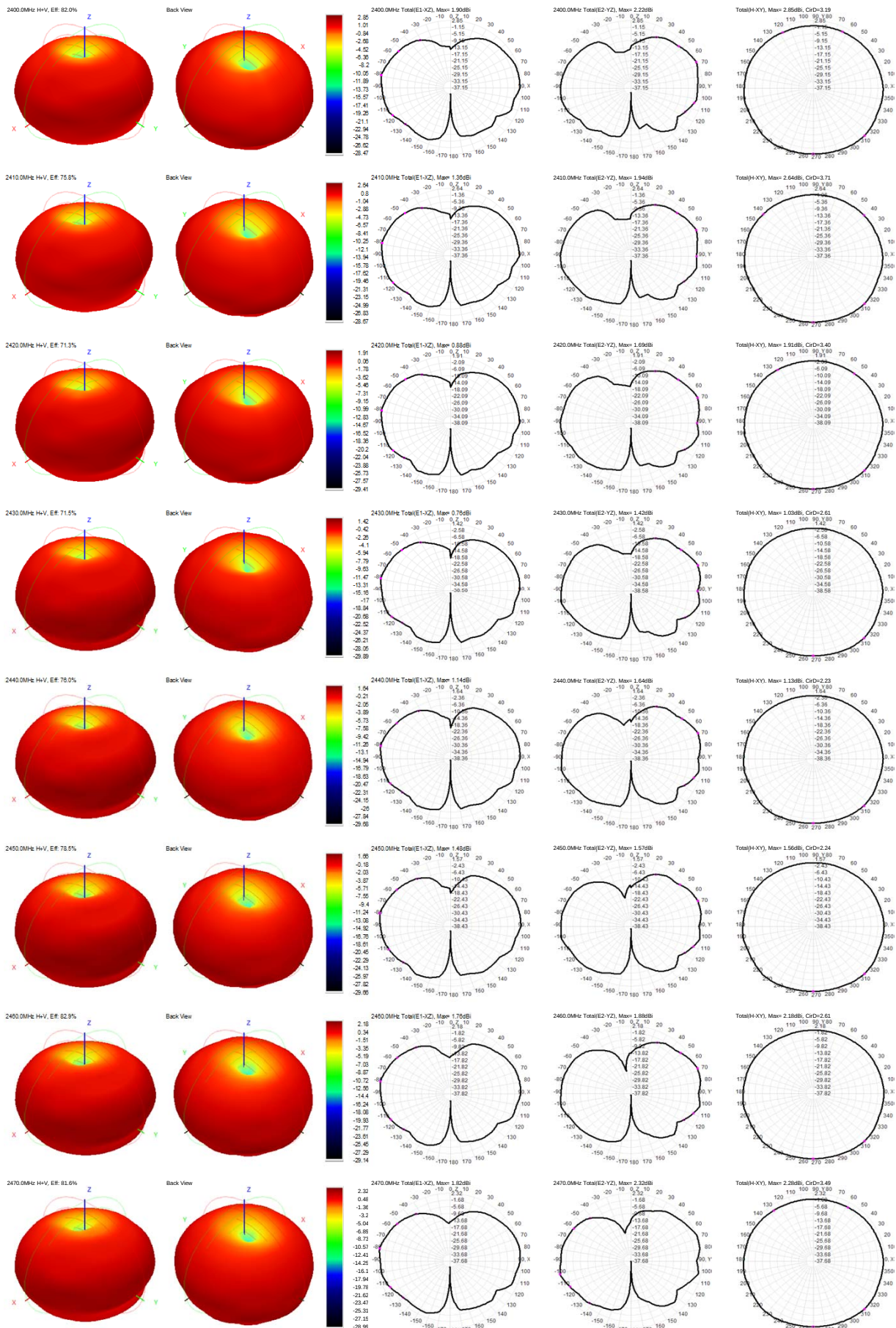


Efficiency and Gain-Smith

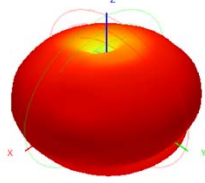
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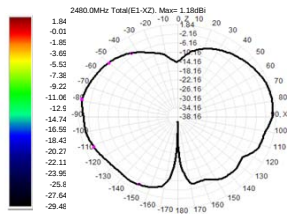
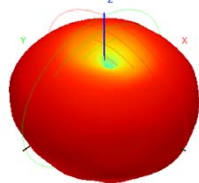
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.15	2.84	2.11	1.42	1.64	1.66	2.18	2.32	1.84	1.54	1.24
Efficiency (%)	81.97	75.78	71.35	71.54	75.99	78.52	82.92	81.57	73.26	66.35	65.78



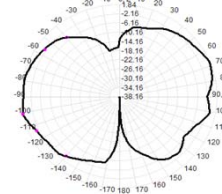
2480.0MHz H+V, Eff: 73.3%



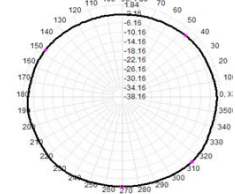
Back View



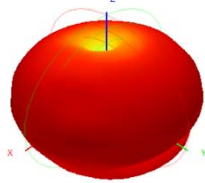
2480.0MHz Total(E2-YZ), Max= 1.65dBi



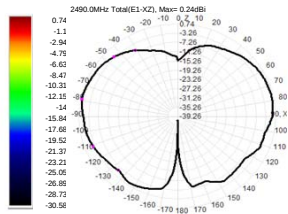
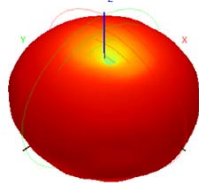
Total(H+V), Max= 1.84dBi, CrD=4.34



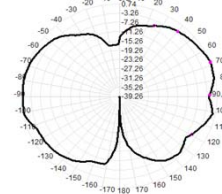
2490.0MHz H+V, Eff: 66.4%



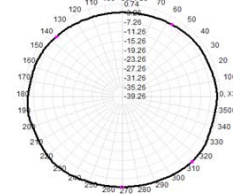
Back View



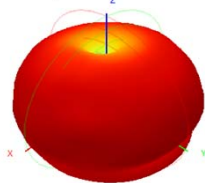
2490.0MHz Total(E2-YZ), Max= 0.55dBi



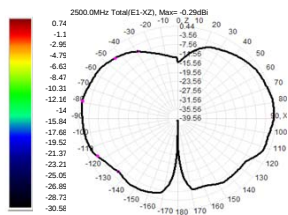
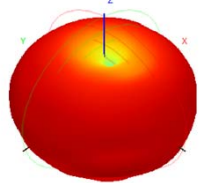
Total(H+V), Max= 0.74dBi, CrD=3.73



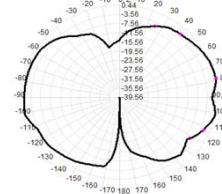
2500.0MHz H+V, Eff: 65.8%



Back View



2500.0MHz Total(E2-YZ), Max= 0.44dBi



Total(H+V), Max= 0.17dBi, CrD=2.17

