

好天线 · 优比造

Dongguan UB Electronics Co., Ltd

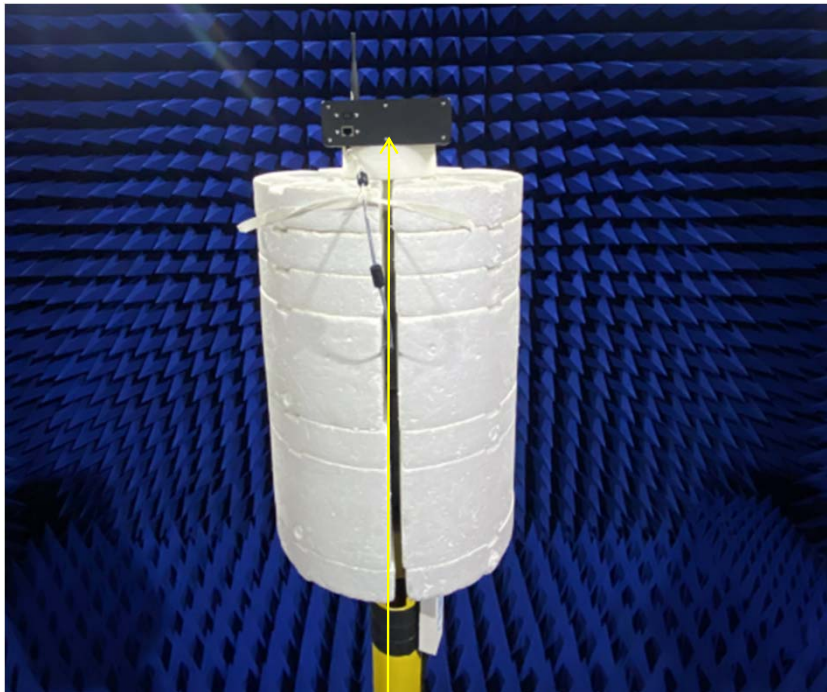
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,
Guangdong Province, China

Antenna Study

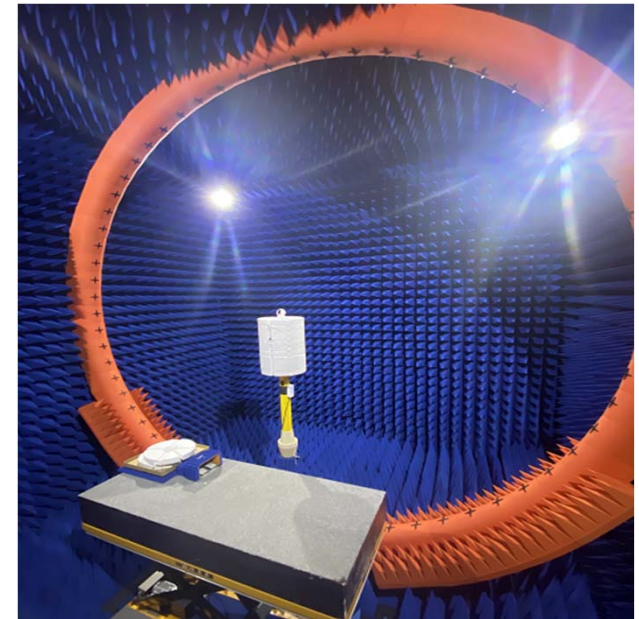
- **Client Name: 34ED LLC, DBA Centegix**
- **Project Name : Gateway**
- **Debugging frequency band: 2.4G**
- **Valuation date: 2023.07.25**

External Antenna

Dongguan UB Electronics Co., Ltd



Testing environment



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

External Antenna

Dongguan UB Electronics Co., Ltd

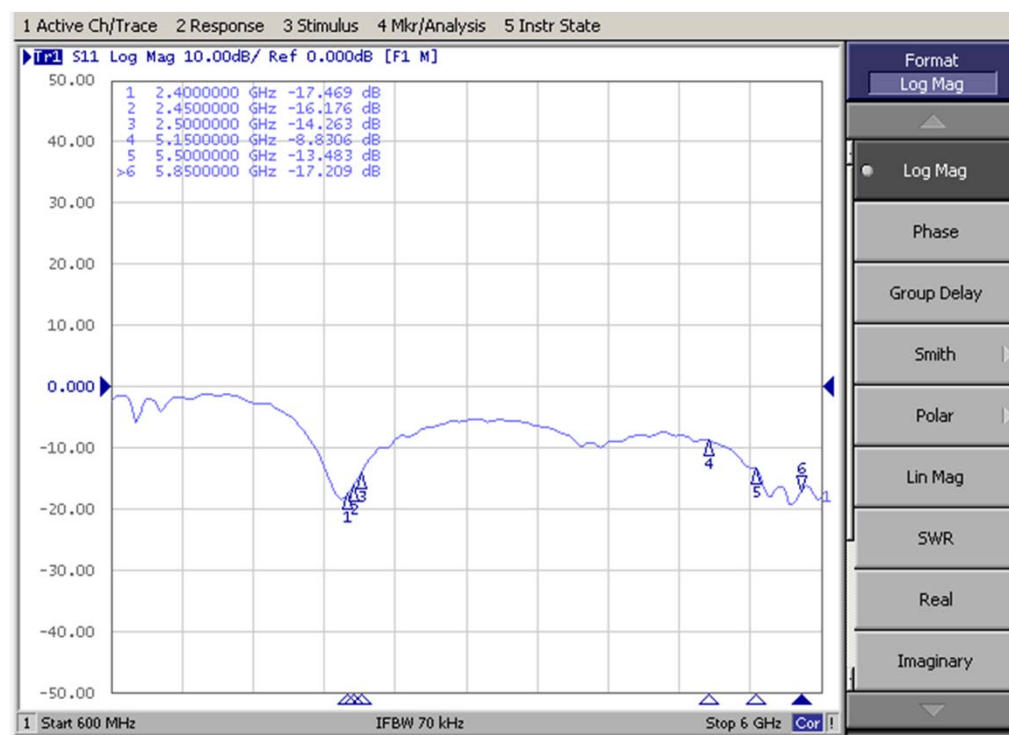
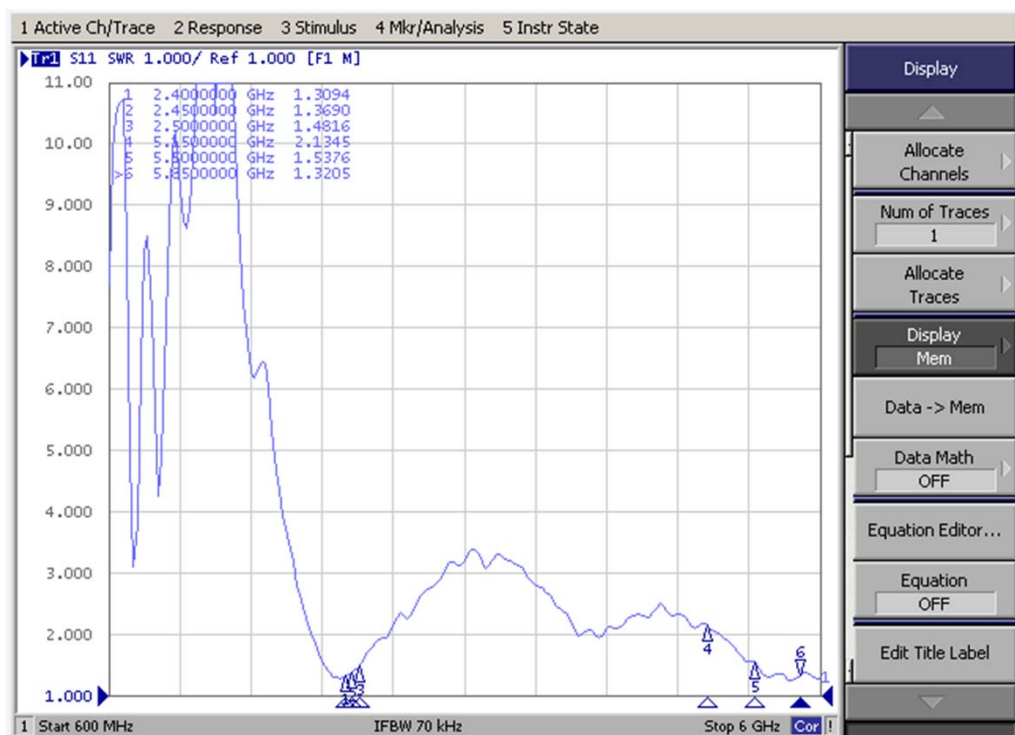


Antenna

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

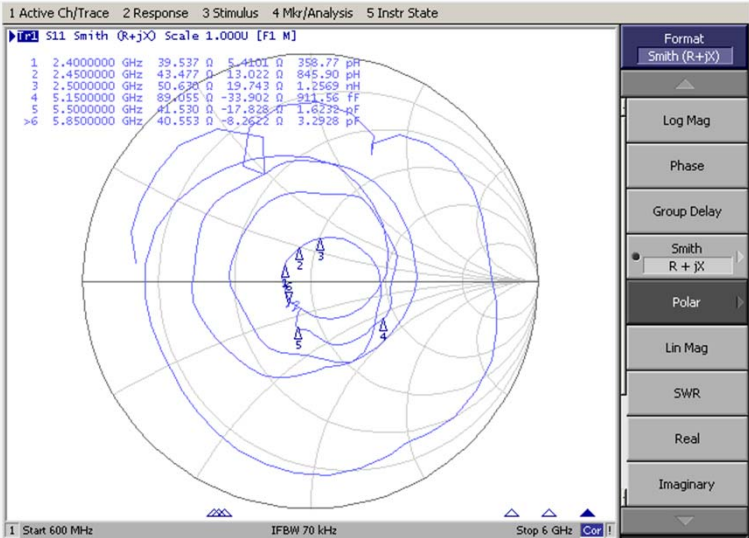
S Parameter_Return Loss&VSWR

Dongguan UB Electronics Co., Ltd



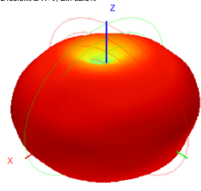
Efficiency and Gain-Smith

Dongguan UB Electronics Co., Ltd

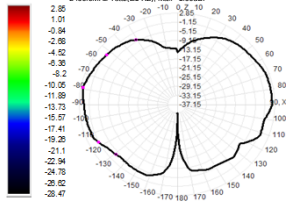
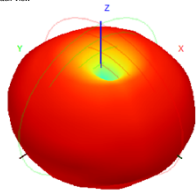


Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	3.15	2.84	2.11	1.42	1.64	1.66	2.18	2.32	1.84	1.54	1.24
Efficiency (%)	81.97	75.78	71.35	71.54	75.99	78.52	82.92	81.57	73.26	66.35	65.78

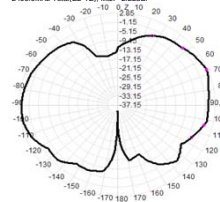
2400.0MHz H+V, Eθ: 82.0%



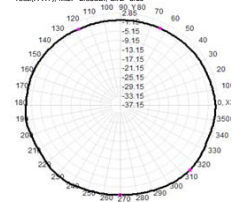
Back View



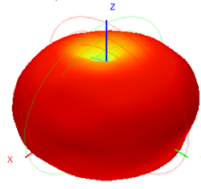
2400.0MHz Total(E2-YZ), Max=2.22dBi



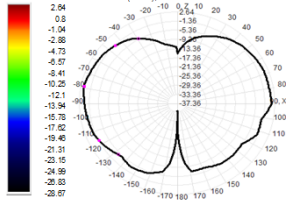
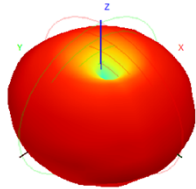
Total(H+V), Max=2.85dBi, CrD=3.19



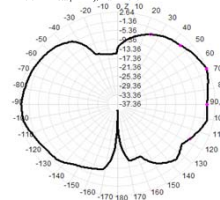
2410.0MHz H+V, Eθ: 75.8%



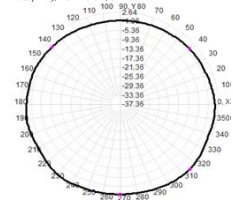
Back View



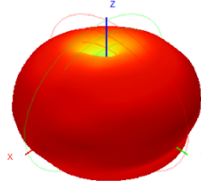
2410.0MHz Total(E2-YZ), Max=1.94dBi



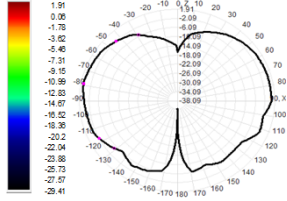
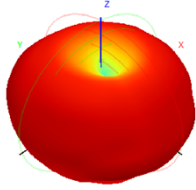
Total(H+V), Max=2.64dBi, CrD=3.71



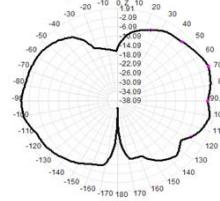
2420.0MHz H+V, Eθ: 71.3%



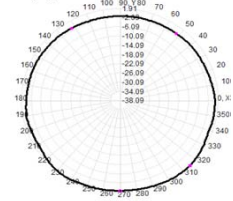
Back View



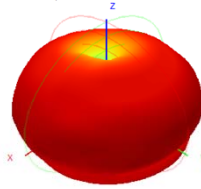
2420.0MHz Total(E2-YZ), Max=1.69dBi



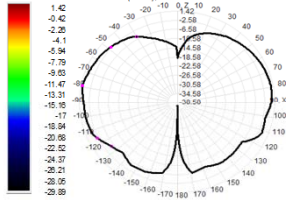
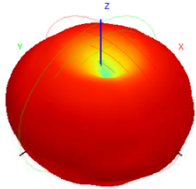
Total(H+V), Max=1.91dBi, CrD=3.40



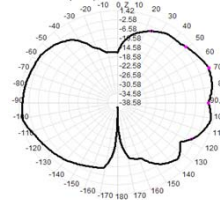
2430.0MHz H+V, Eθ: 71.5%



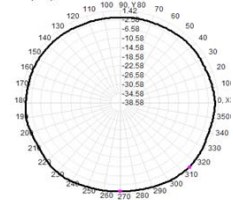
Back View



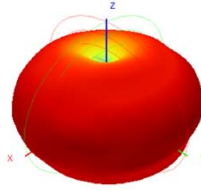
2430.0MHz Total(E2-YZ), Max=1.43dBi



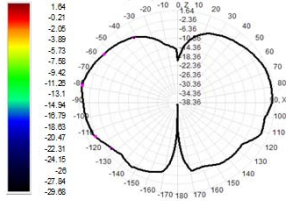
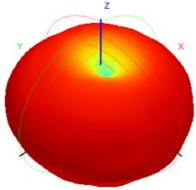
Total(H+V), Max=1.08dBi, CrD=3.61



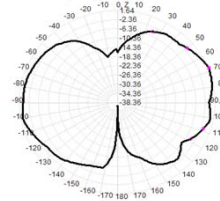
2440.0MHz H+V, Eθ: 70.0%



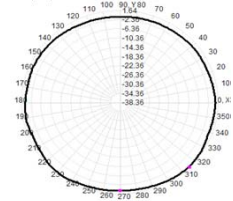
Back View



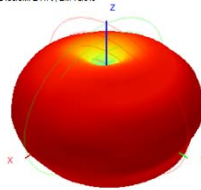
2440.0MHz Total(E2-YZ), Max=1.64dBi



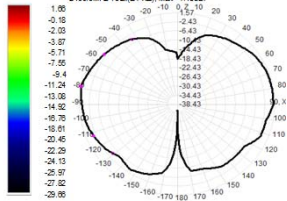
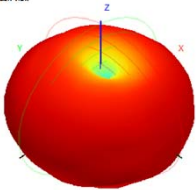
Total(H+V), Max=1.13dBi, CrD=2.23



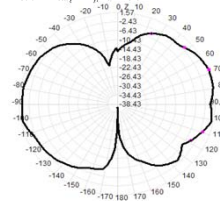
2450.0MHz H+V, Eθ: 78.5%



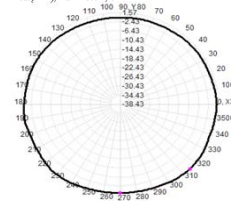
Back View



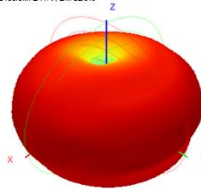
2450.0MHz Total(E2-YZ), Max=1.57dBi



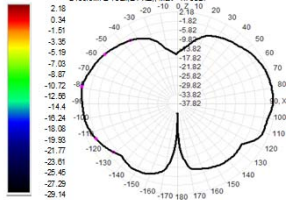
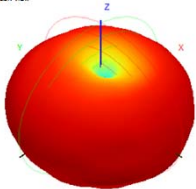
Total(H+V), Max=1.56dBi, CrD=2.24



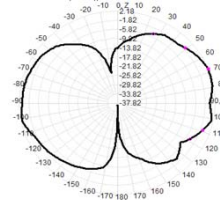
2460.0MHz H+V, Eθ: 82.9%



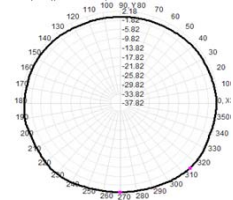
Back View



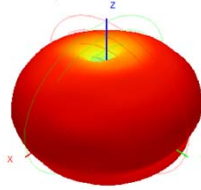
2460.0MHz Total(E2-YZ), Max=1.89dBi



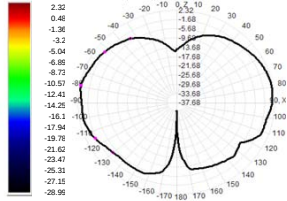
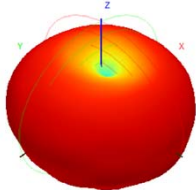
Total(H+V), Max=2.18dBi, CrD=2.61



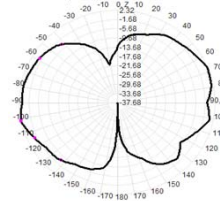
2470.0MHz H+V, Eθ: 81.6%



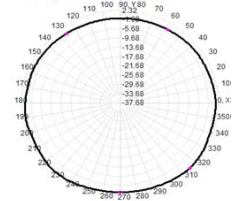
Back View



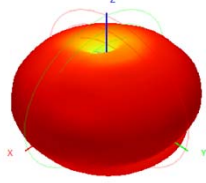
2470.0MHz Total(E2-YZ), Max=2.23dBi



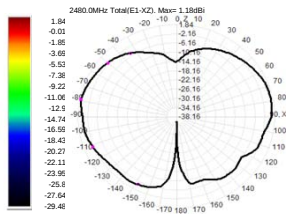
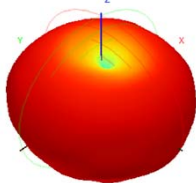
Total(H+V), Max=2.28dBi, CrD=3.49



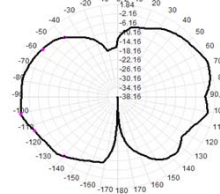
2480.0MHz H+V, ER: 73.3%



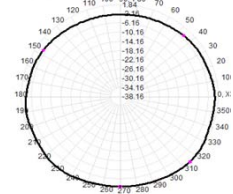
Back View



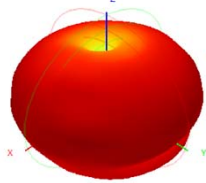
2480.0MHz Total(E2-YZ), Max=1.65dBi



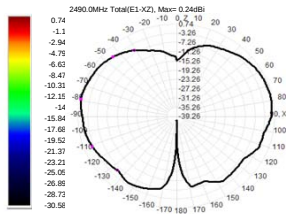
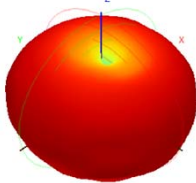
Total(H+V), Max=1.84dBi, CrD=4.34



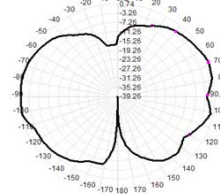
2490.0MHz H+V, ER: 66.4%



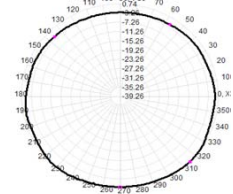
Back View



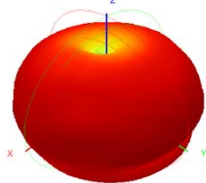
2490.0MHz Total(E2-YZ), Max=0.55dBi



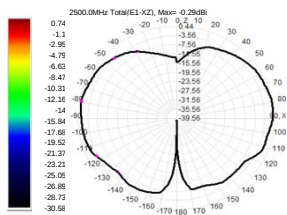
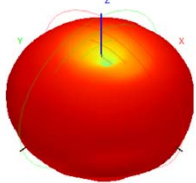
Total(H+V), Max=0.74dBi, CrD=3.73



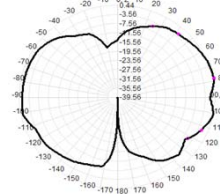
2500.0MHz H+V, ER: 65.8%



Back View



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



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

