



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

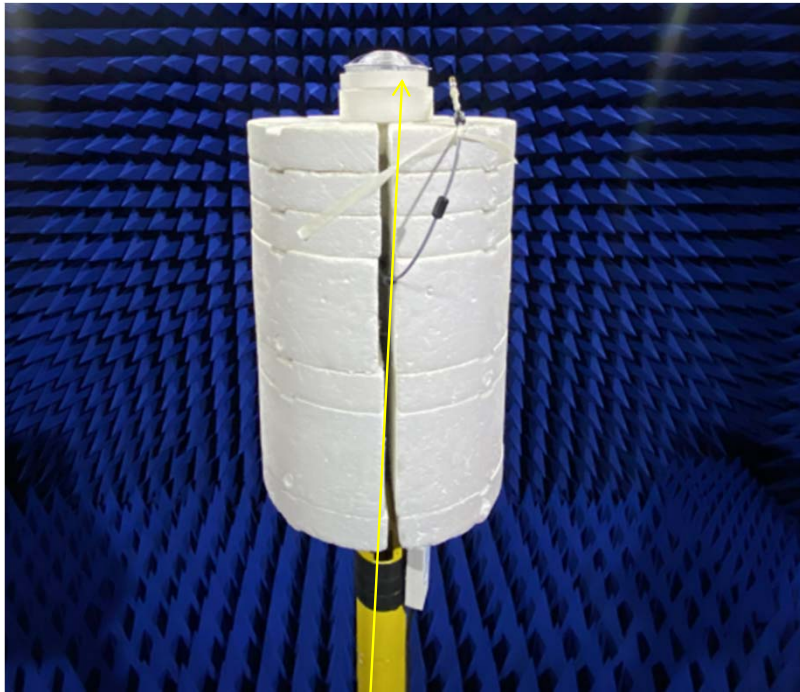
Room 101, Building 2, No. 9 Xinfu Road, Lincun, Tangxia Town, Dongguan City,
Guangdong Province, China

Antenna Study

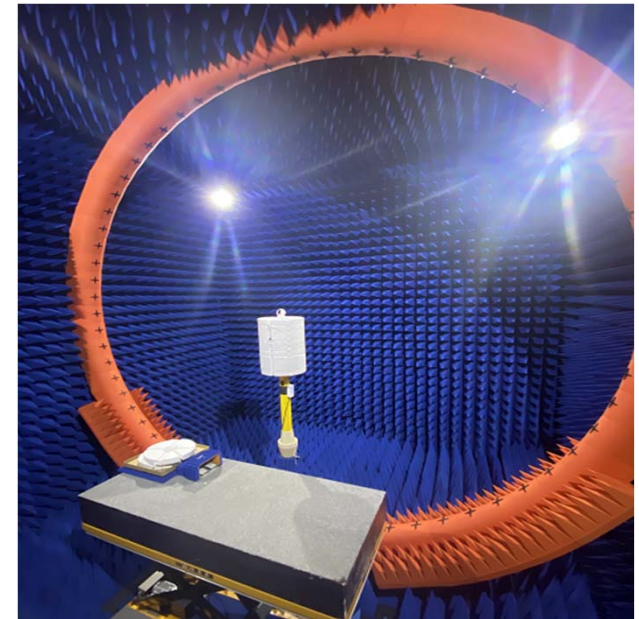
- **Client Name: 34ED LLC, DBA Centegix**
- **Project Name: Strobe**
- **Debugging frequency band: 2.4G**
- **Valuation date: 2023.07.25**

Internal Antenna

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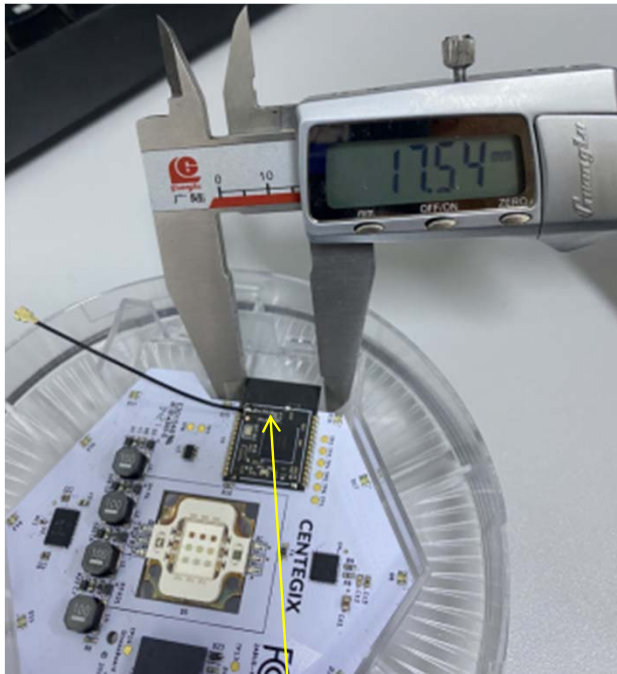
Testing environment



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

PCB Antenna

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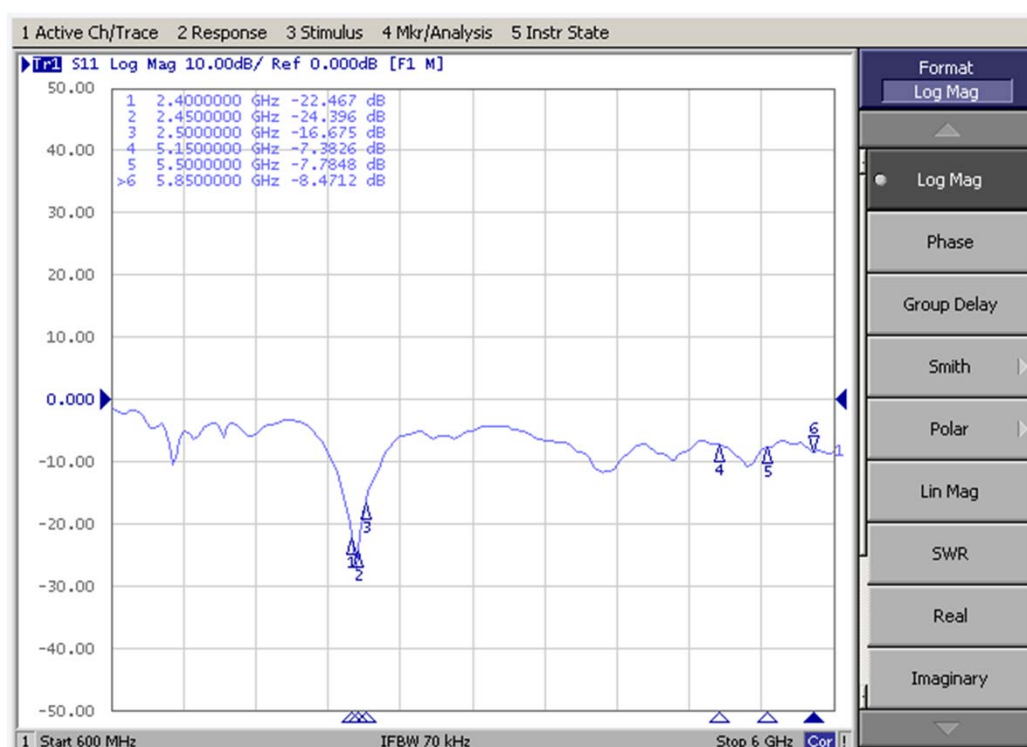
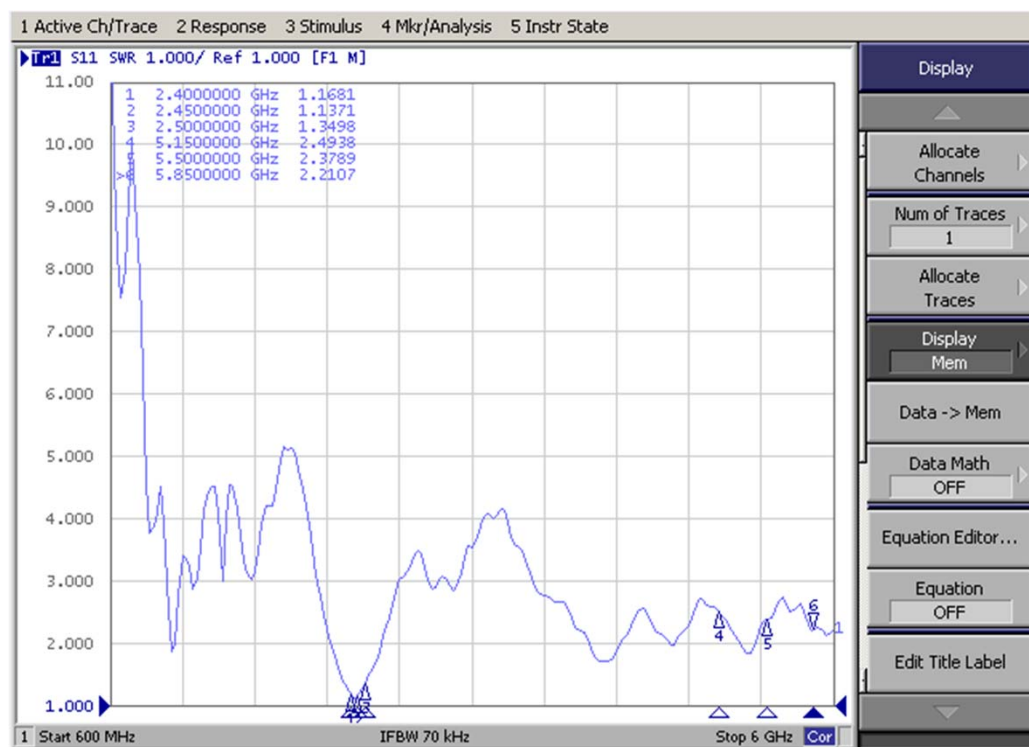


Antenna

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

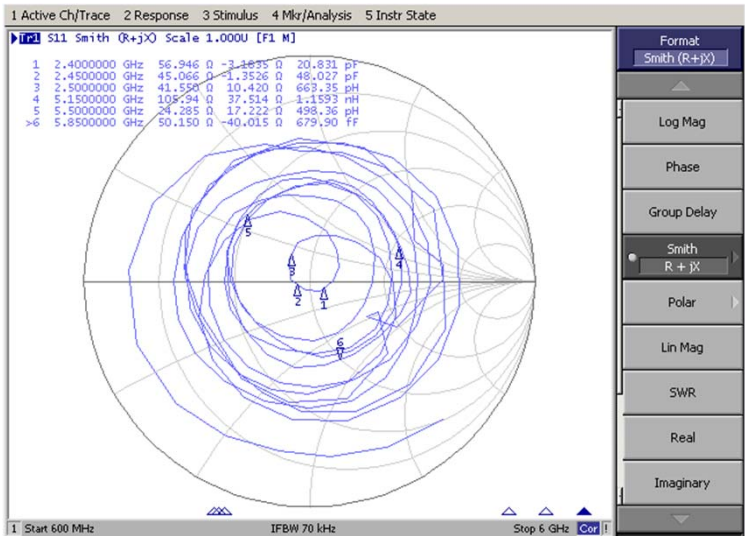
S Parameter_Return Loss&VSWR

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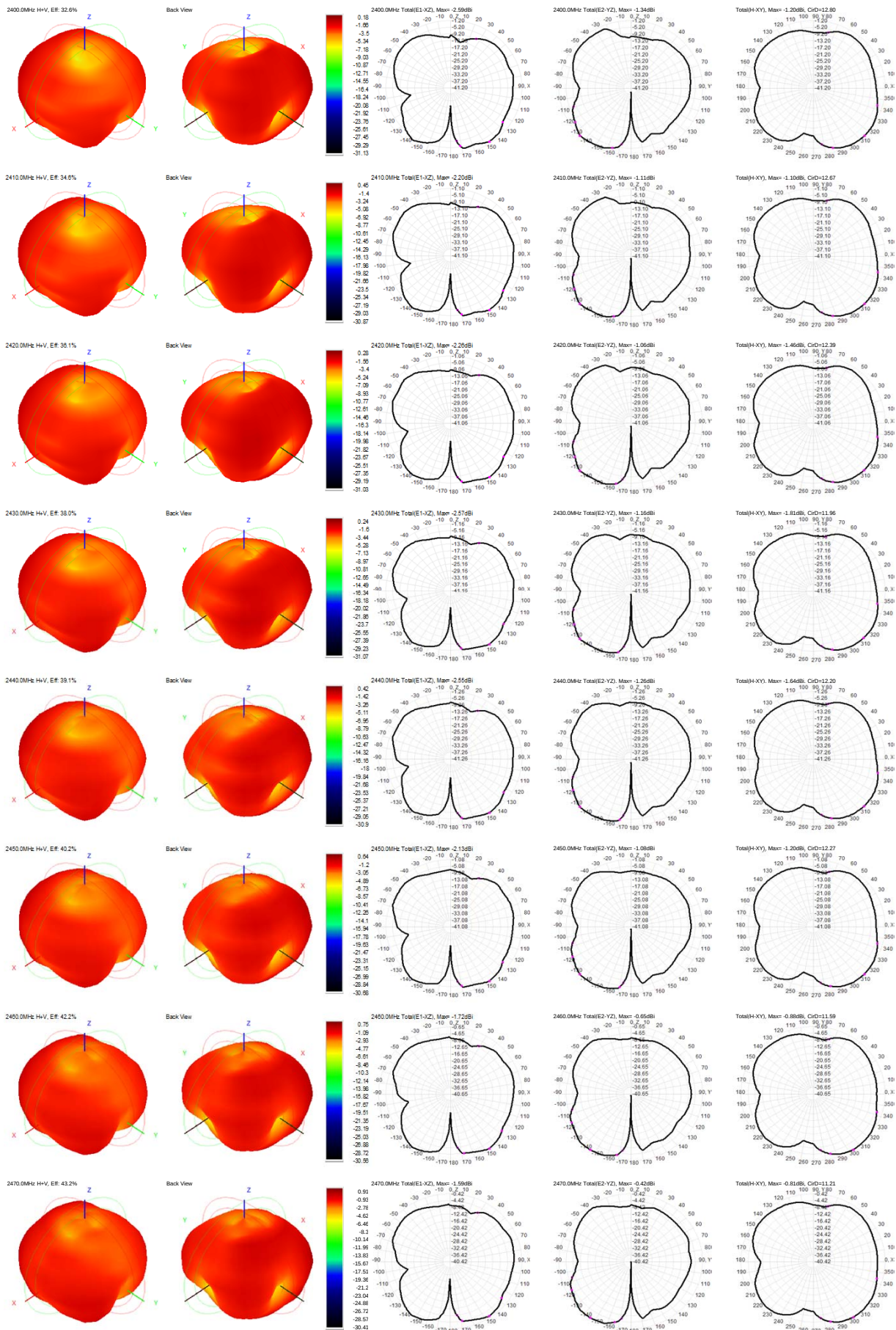


Efficiency and Gain-Smith

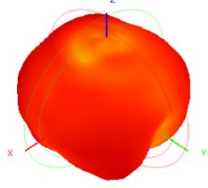
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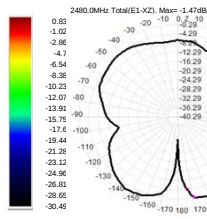
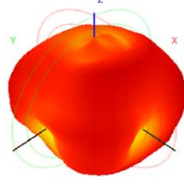
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.18	0.45	0.28	0.24	0.42	0.64	0.75	0.91	0.83	0.77	0.83
Efficiency (%)	32.58	34.61	36.12	38.01	39.09	40.22	42.24	43.16	42.71	43.21	43.25



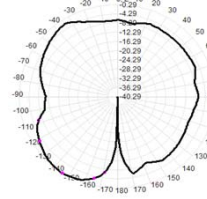
2480.0MHz H+V, ER: 42.7%



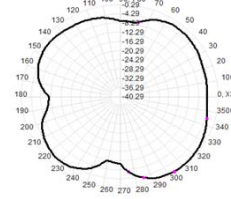
Back View



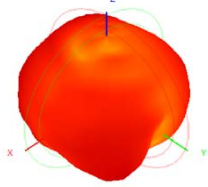
2480.0MHz Total(E2-YZ), Max=-0.29dBi



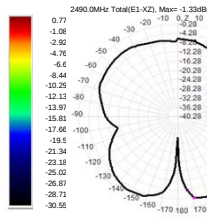
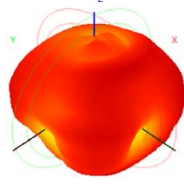
Total(H+V), Max=-1.00dBi, CRD=11.13



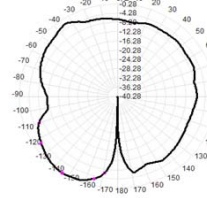
2490.0MHz H+V, ER: 43.2%



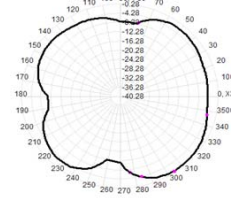
Back View



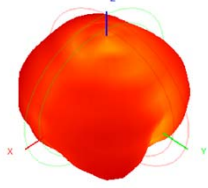
2490.0MHz Total(E2-YZ), Max=-0.29dBi



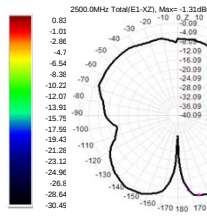
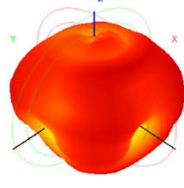
Total(H+V), Max=-1.26dBi, CRD=11.22



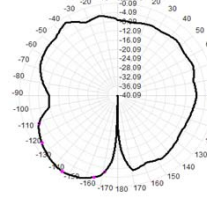
2500.0MHz H+V, ER: 43.2%



Back View



2500.0MHz Total(E2-YZ), Max=-0.09dBi



Total(H+V), Max=-1.30dBi, CRD=11.61

