

Antenna Specifications

➤ **Manufacturer: Ningbo Free Trade Zone Rising Sun Electrical Co., Ltd.**

Address: No.17, Chuangye 1 Road, West Part of Free Trade Zone, Ningbo, Zhejiang 315806 China

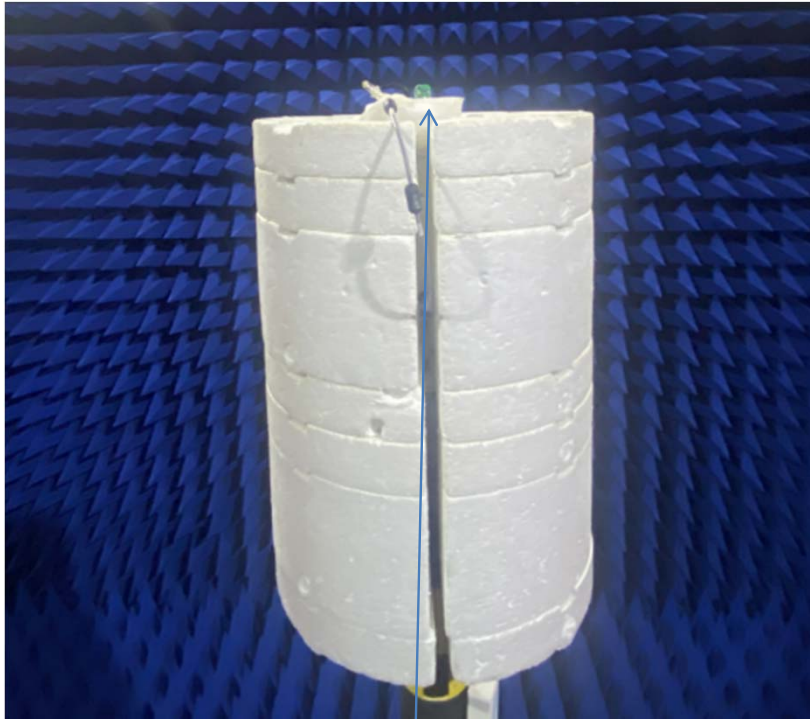
➤ **Project Name : ANT-433**

➤ **Debugging frequency band: 433MHz**

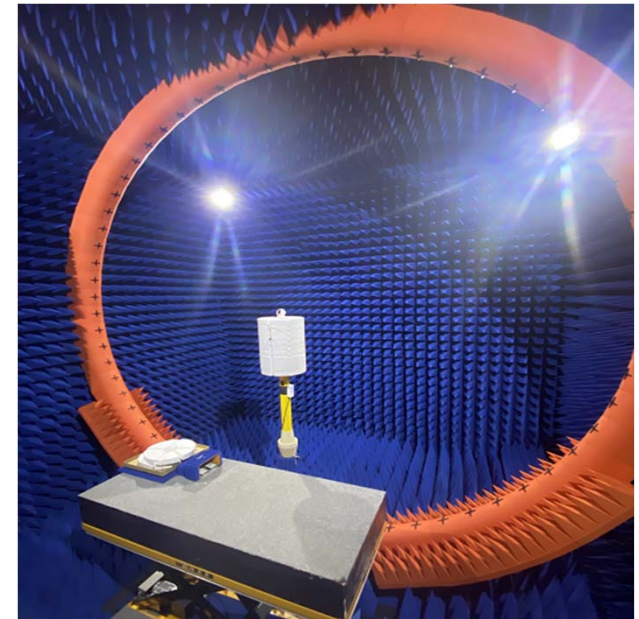
➤ **Valuation date: 2025.12.28**

Internal Antenna

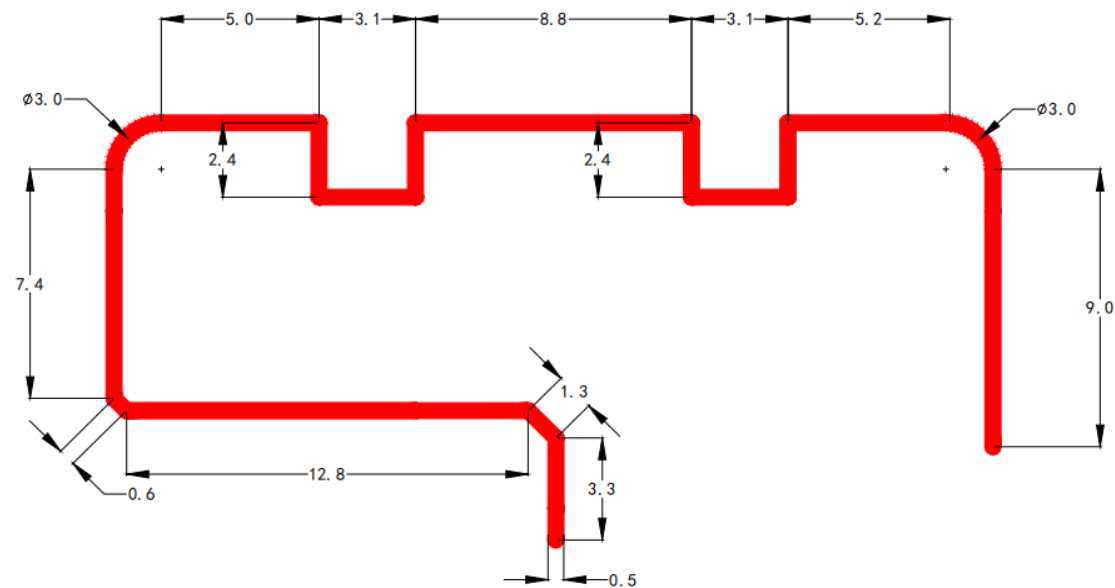
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Testing environment



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

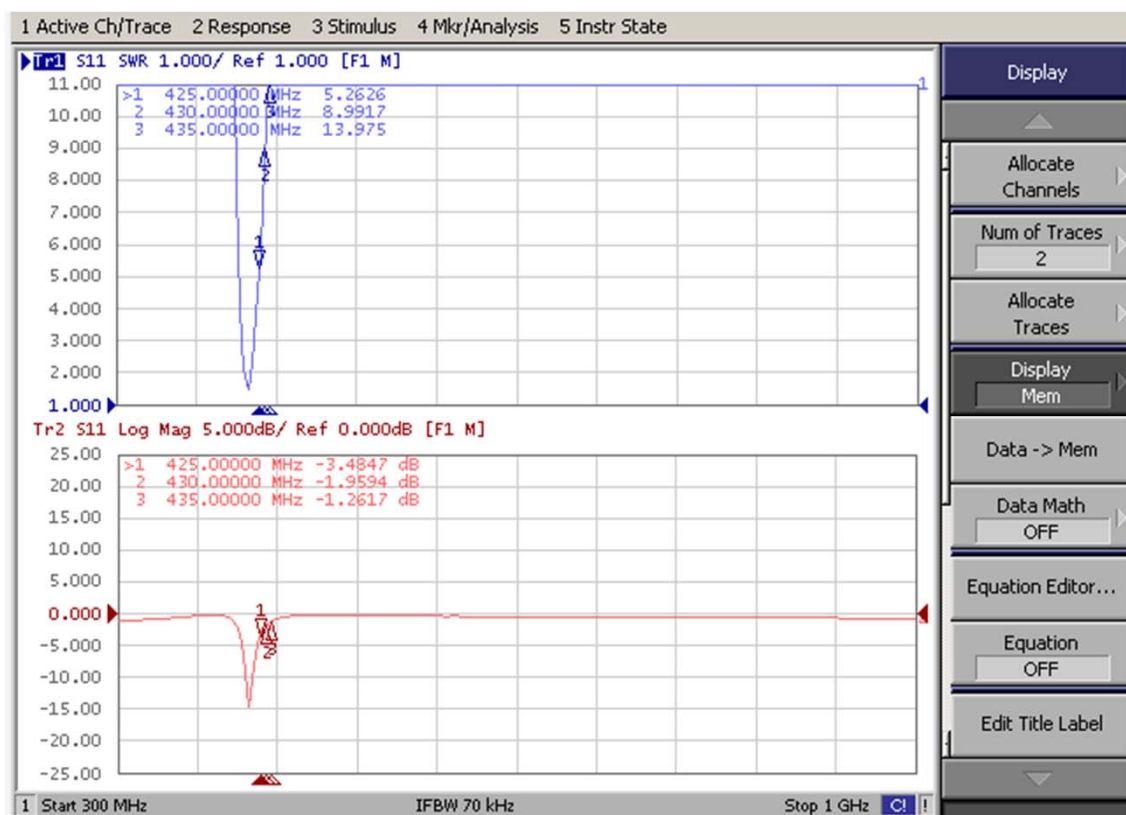


UNIT:MM

- Antenna name: ANT-433
- Antenna Type: PCB

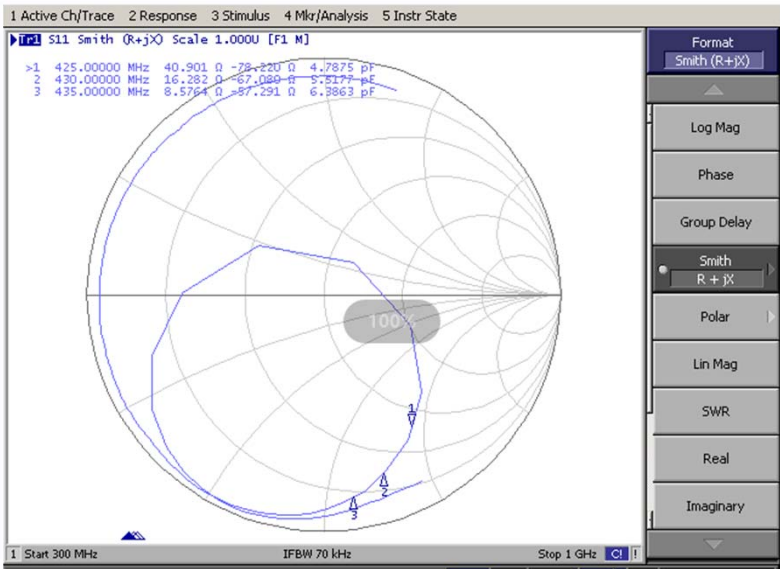
S Parameter_Return Loss&VSWR

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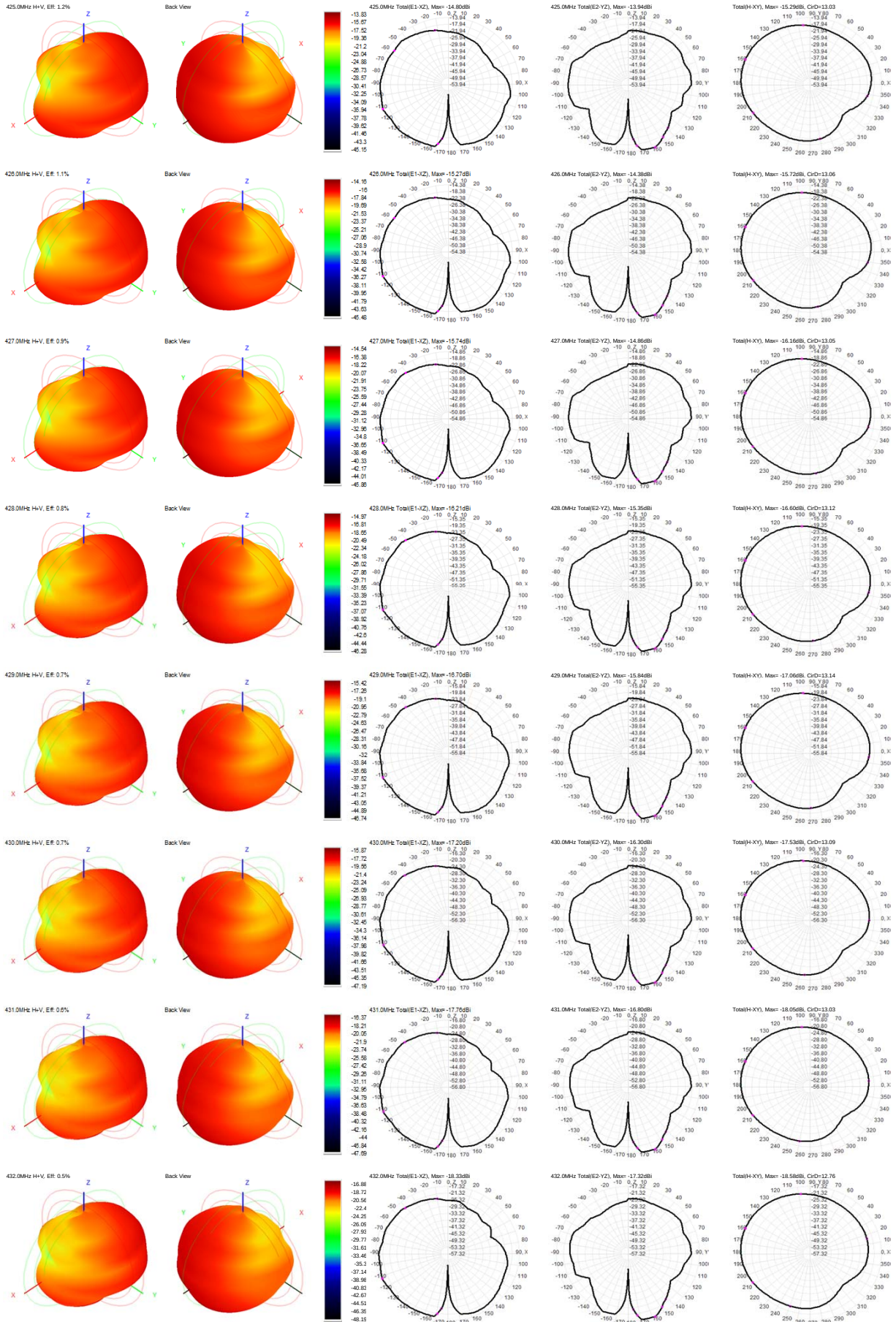


Efficiency and Gain-Smith

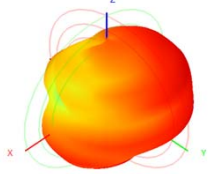
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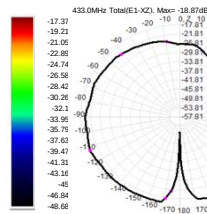
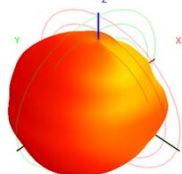
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	425	426	427	428	429	430	431	432	433	434	435
Gain (dBi)	-0.05	-0.83	-0.92	-1.03	-1.22	-1.35	-1.37	-1.39	0	0	-1.54



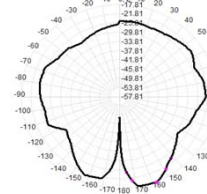
433.0MHz H+V, Eff: 0.5%



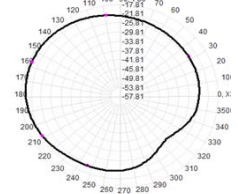
Back View



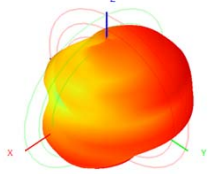
433.0MHz Total(E2-YZ), Max=-17.81dB



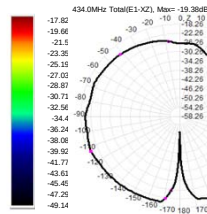
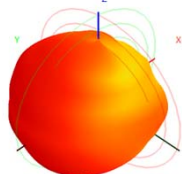
Total(H+V), Max=-19.07dB, CrD=12.56



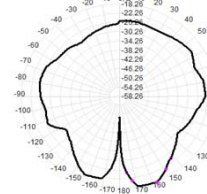
434.0MHz H+V, Eff: 0.4%



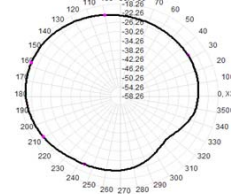
Back View



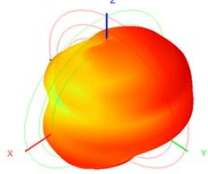
434.0MHz Total(E2-YZ), Max=-18.26dB



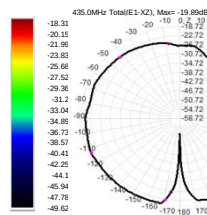
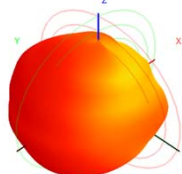
Total(H+V), Max=-19.56dB, CrD=12.46



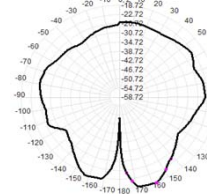
435.0MHz H+V, Eff: 0.4%



Back View



435.0MHz Total(E2-YZ), Max=-18.72dB



Total(H+V), Max=-20.06dB, CrD=12.26

