



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

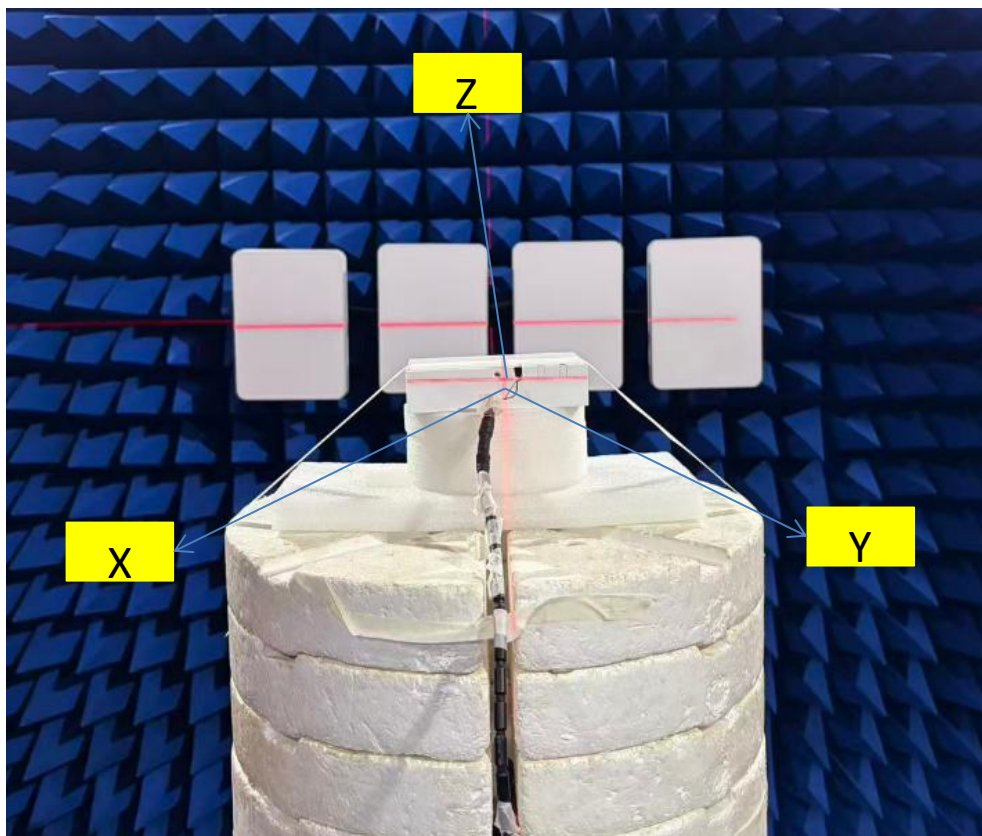
Antenna Study

- **Client Name: Nexelec**
- **Project Name: X2 range**
- **Model: X2 range antenna**
- **Debugging frequency band: 900-920HMz**
- **Valuation date: 2026.03.31**

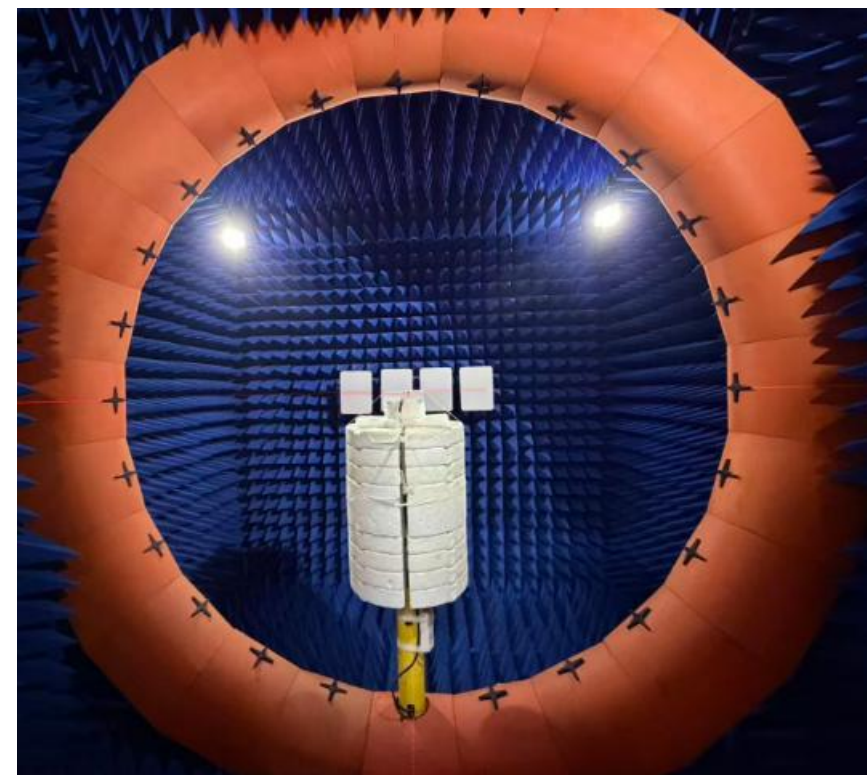
Address: Building 79, New Sun Industrial City, Lin Village Community, Tangxia Town, Dongguan (Dongguan Company) Phone: 0769-81777126

Room 106, Building 3, Lenton Technology Park, No. 500 Qiuyi Road, Binjiang District, Hangzhou (Hangzhou Branch) Fax: 0769-81777125

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Testing environment



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

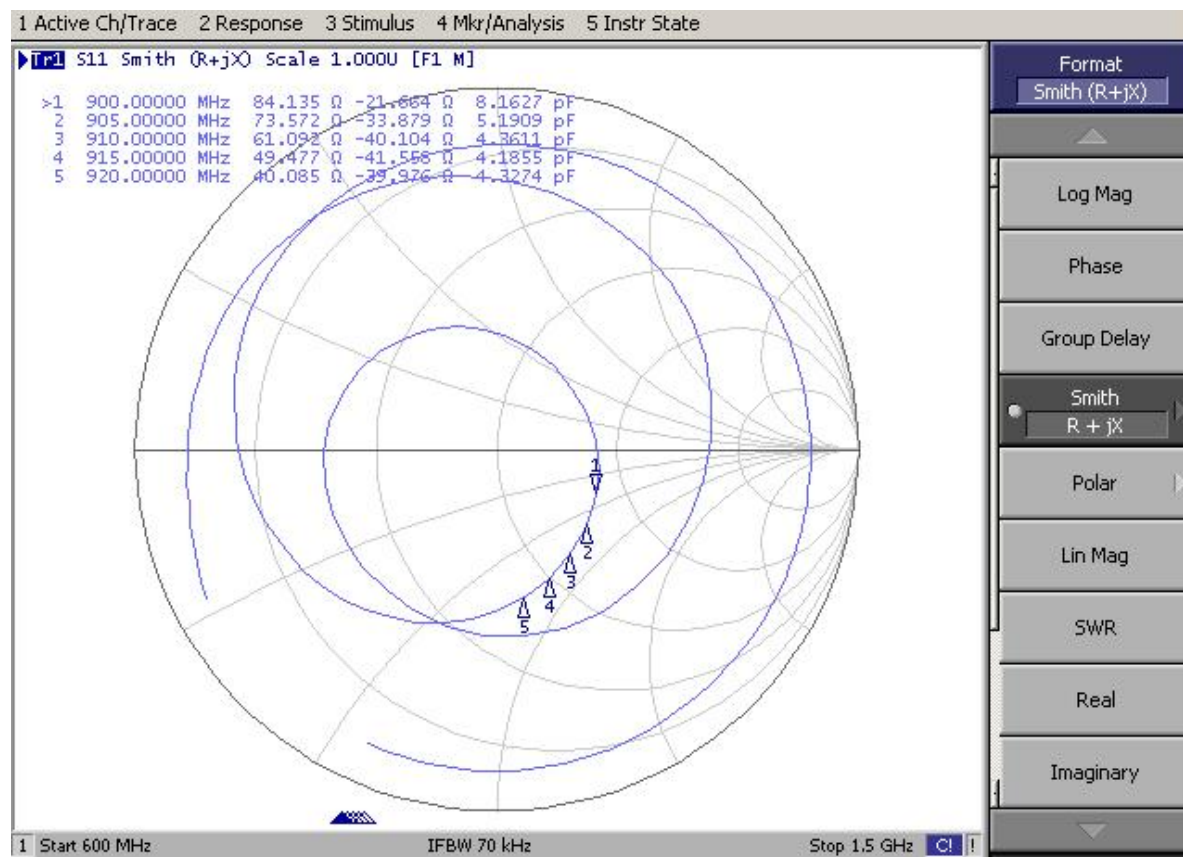
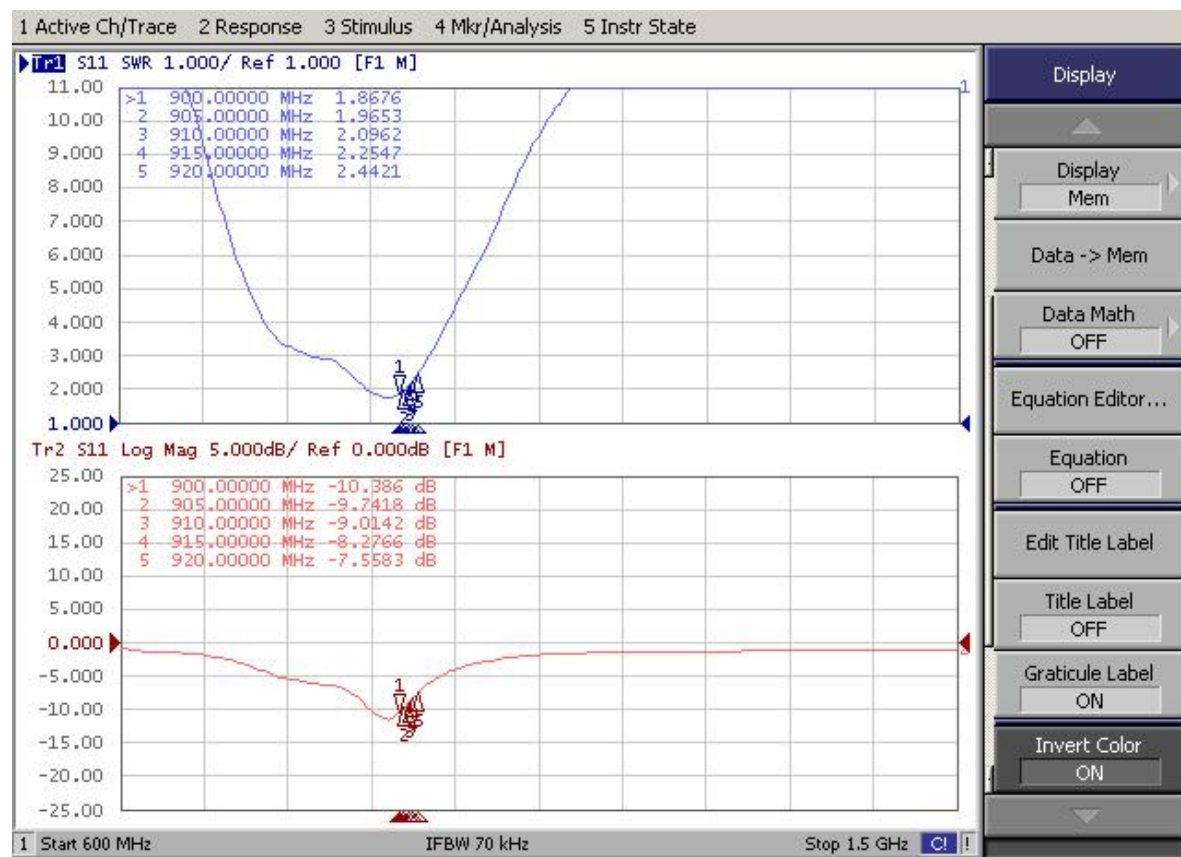


Antenna

- Antenna name: LoRa
- Covers : 900/920MHz

S Parameter_Return Loss&VSWR-Smith

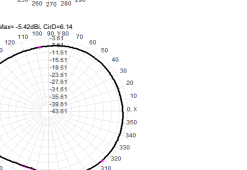
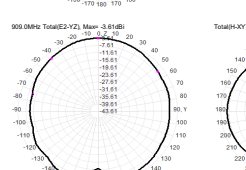
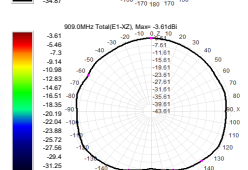
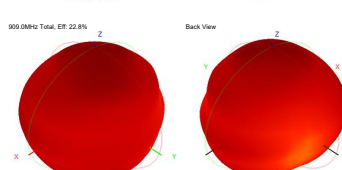
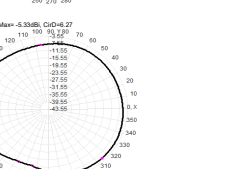
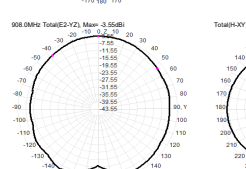
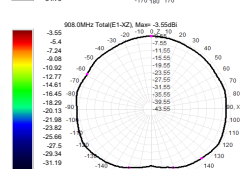
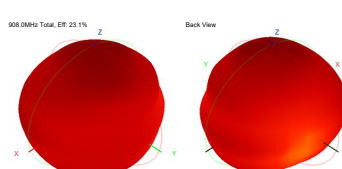
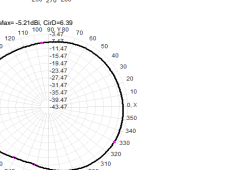
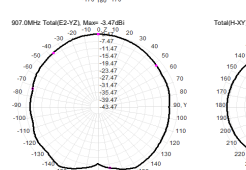
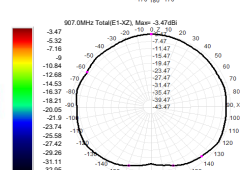
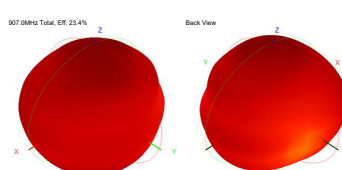
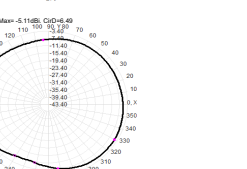
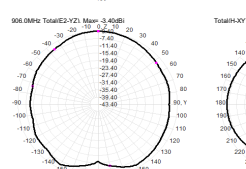
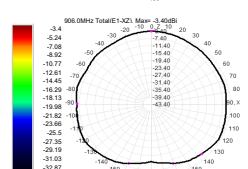
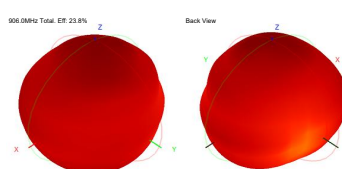
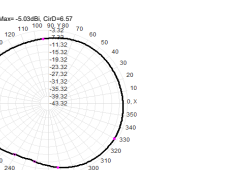
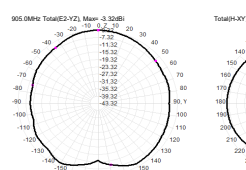
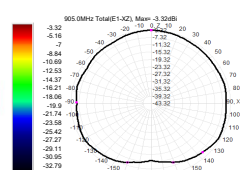
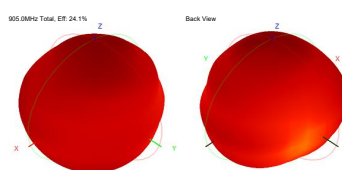
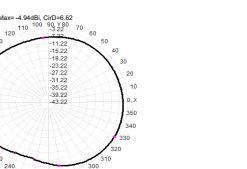
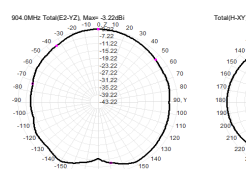
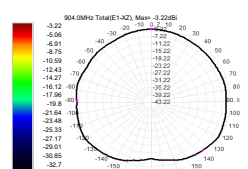
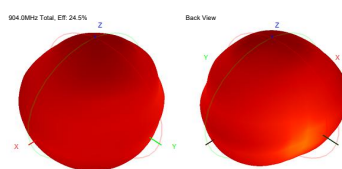
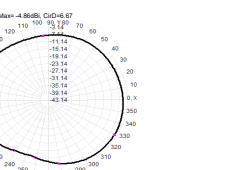
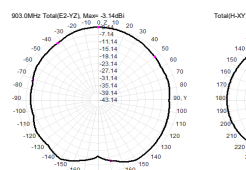
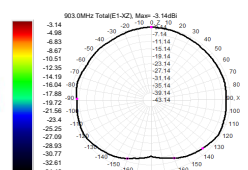
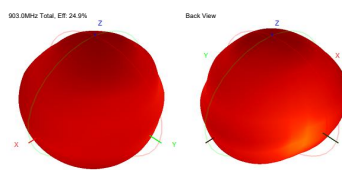
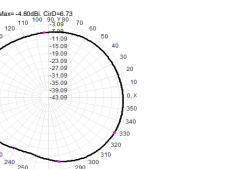
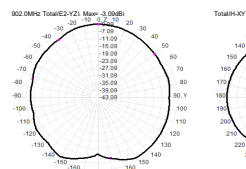
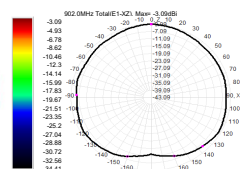
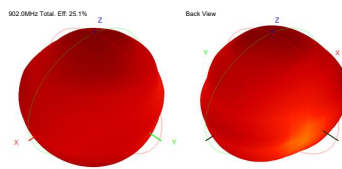
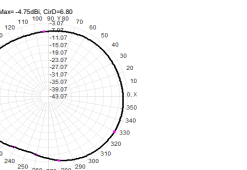
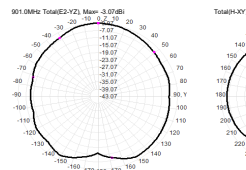
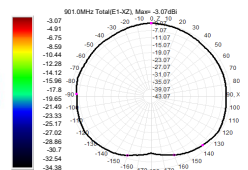
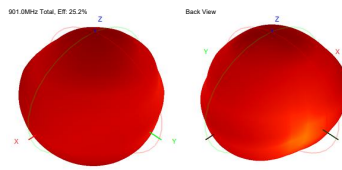
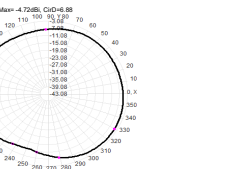
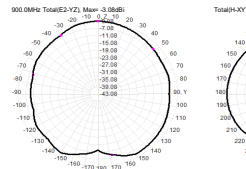
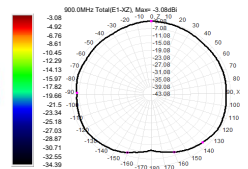
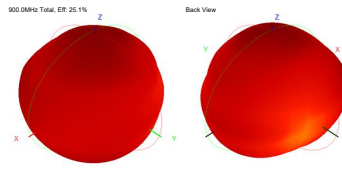
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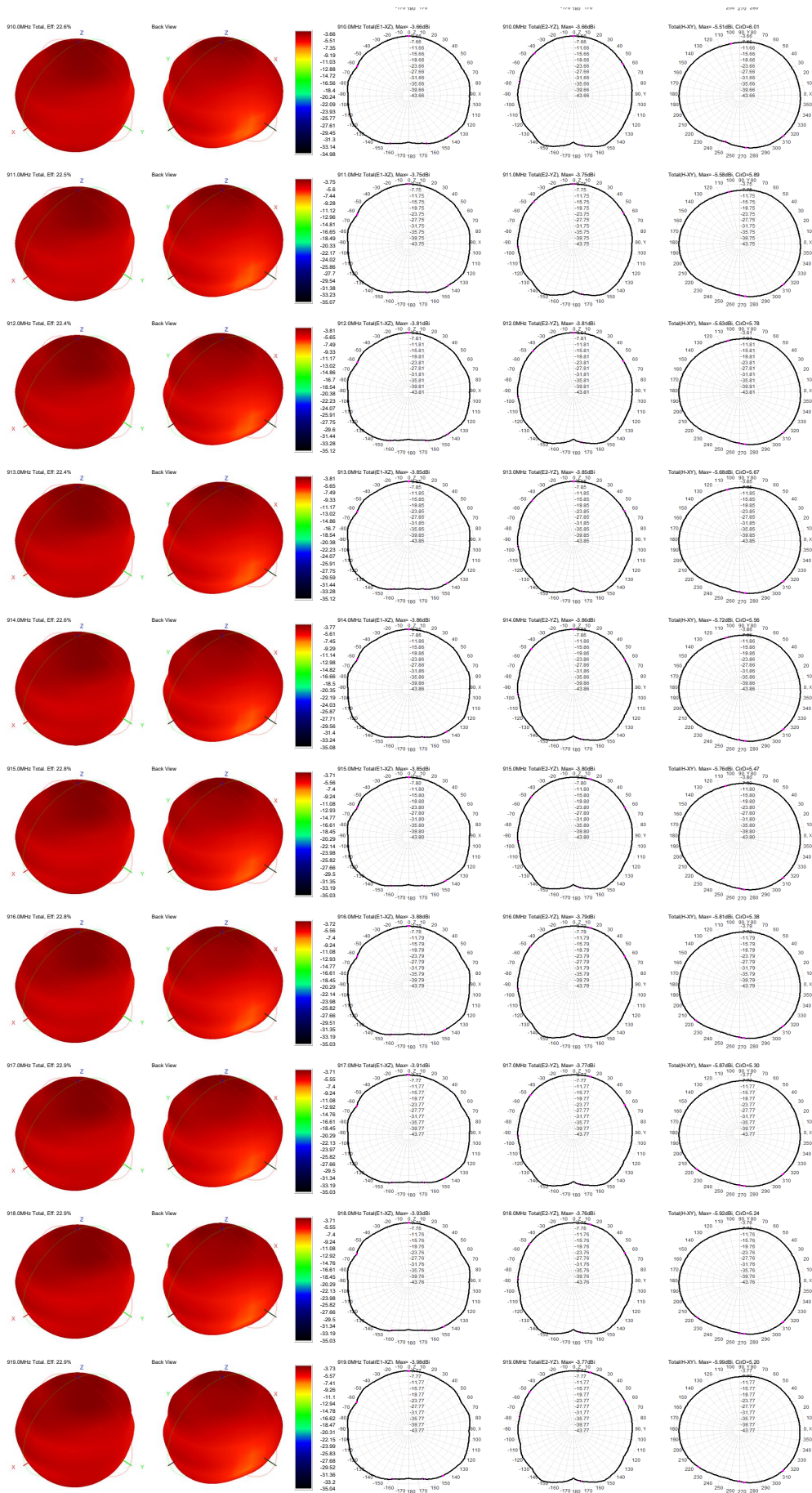


Efficiency and Gain

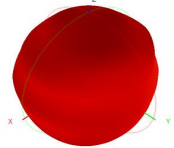
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序号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
频率(MHz)	900.0	901.0	902.0	903.0	904.0	905.0	906.0	907.0	908.0	909.0	910.0	911.0	912.0	913.0	914.0	915.0	916.0	917.0	918.0	919.0	920.0
增益 (dBi)	-3.08	-3.07	-3.09	-3.14	-3.22	-3.32	-3.40	-3.47	-3.55	-3.61	-3.66	-3.75	-3.81	-3.81	-3.77	-3.71	-3.72	-3.71	-3.71	-3.73	-3.76
效率 (%)	25.10	25.18	25.10	24.88	24.54	24.12	23.77	23.41	23.08	22.82	22.65	22.46	22.41	22.43	22.57	22.76	22.82	22.88	22.92	22.87	22.74

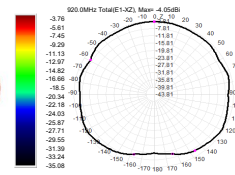
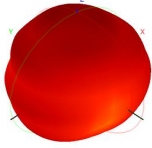




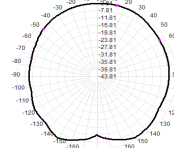
920.0MHz Total, Eff 22.7%



Back View



920.0MHz Total(E2-YZ), Max=-3.81(dB)



Total(X-Y), Max=-4.05(dB), C/Isd<5.17

