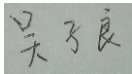


A05082 Antenna report

CUSTOMER(客户名称)	TCL
TEST LOCATION(测试地点)	R&D Laboratory of Tongli Technology Factory in Zhongkai High tech Zone, Huizhou City, Guangdong Province
CS P/N(客户机种)	C3LM28
TEST DATE(日期)	2026. 02. 06
PART NAME(品名)	PCB antenna
FREQUENCY(频率)	2. 4GHz
ZTX NO. (物料编号)	/
MANUFACTURE(制造商)	/
Tested by Ziliang WU	Approved by Yicheng Li
	

1. Antenna Size (mm)

【Refer to Antenna report appendix】

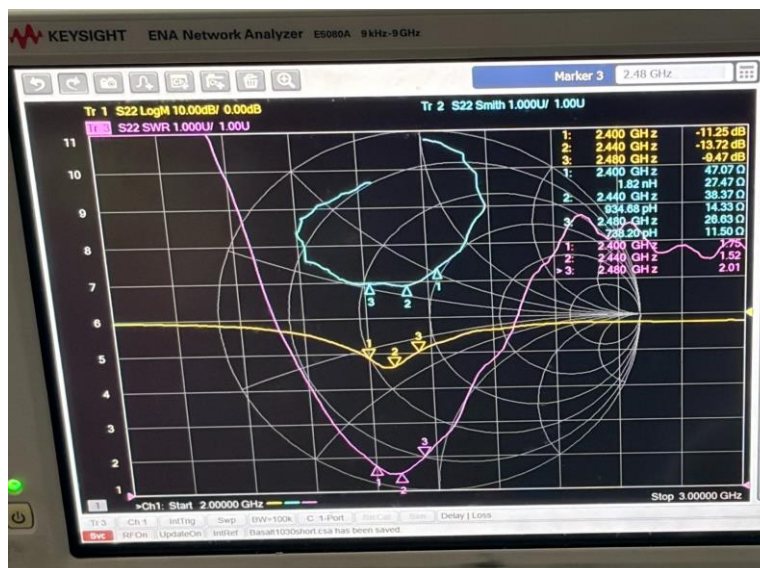
2. Antenna photo

【Refer to Antenna report appendix】

3. Test setup photo

【Refer to Antenna report appendix】

4. Return loss & impedance



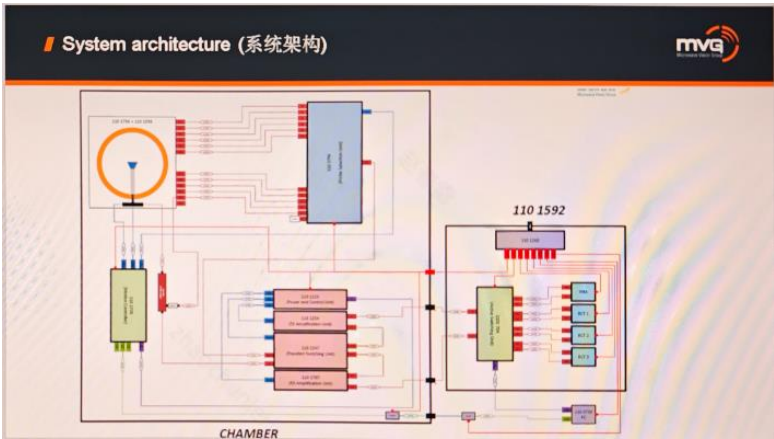
5. Test standard

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

6. Equipment list

Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
Network Aanlyzer	Agilent	E5071C	MY47100344	2025.03.15	2026.03.14
Microwave chamber	MVG	SG24S 0.4-10GHz	1102805-0012	2026.01.05	2027.01.05
Test Software	MVG	Wave Studio24.3.3			

7. Test configuration diagram



Test step flow:

- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration tests;
- 4) Run the software, when the test is completed, export the corresponding test diagram and test data, and save to the corresponding directory.

8. Antenna Matching circuit

9. Antenna gain

Frequency	Efficiency	Gain
2400MHz	-2.19	2.58
2410MHz	-2.12	2.52
2420MHz	-2.1	2.64
2430MHz	-2.13	2.72
2440MHz	-2.18	2.82
2450MHz	-2.23	2.79
2460MHz	-2.34	2.74
2470MHz	-2.4	2.65
2480MHz	-2.52	2.55

10. Antenna test data

