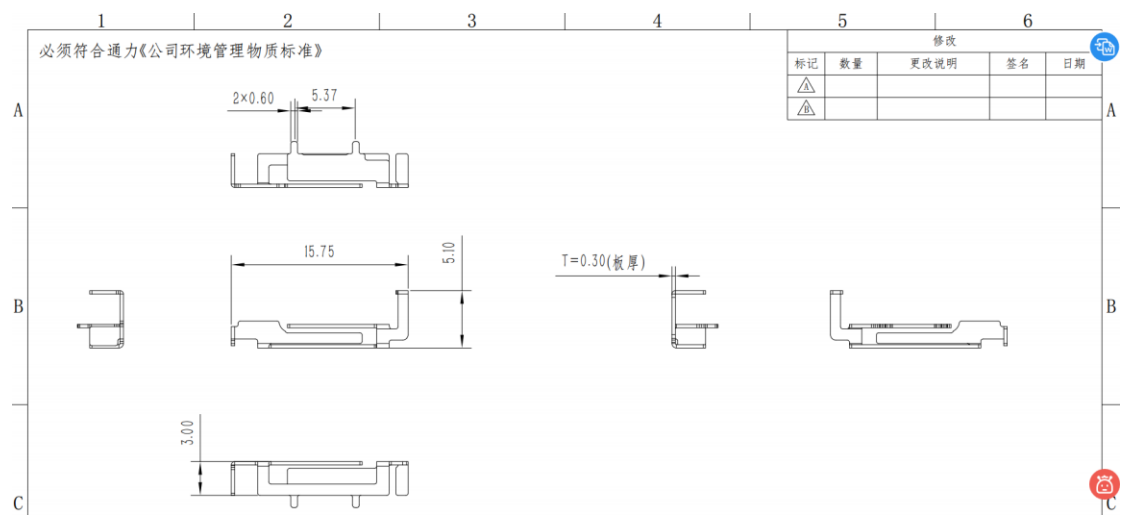


USB Dongle Antenna report

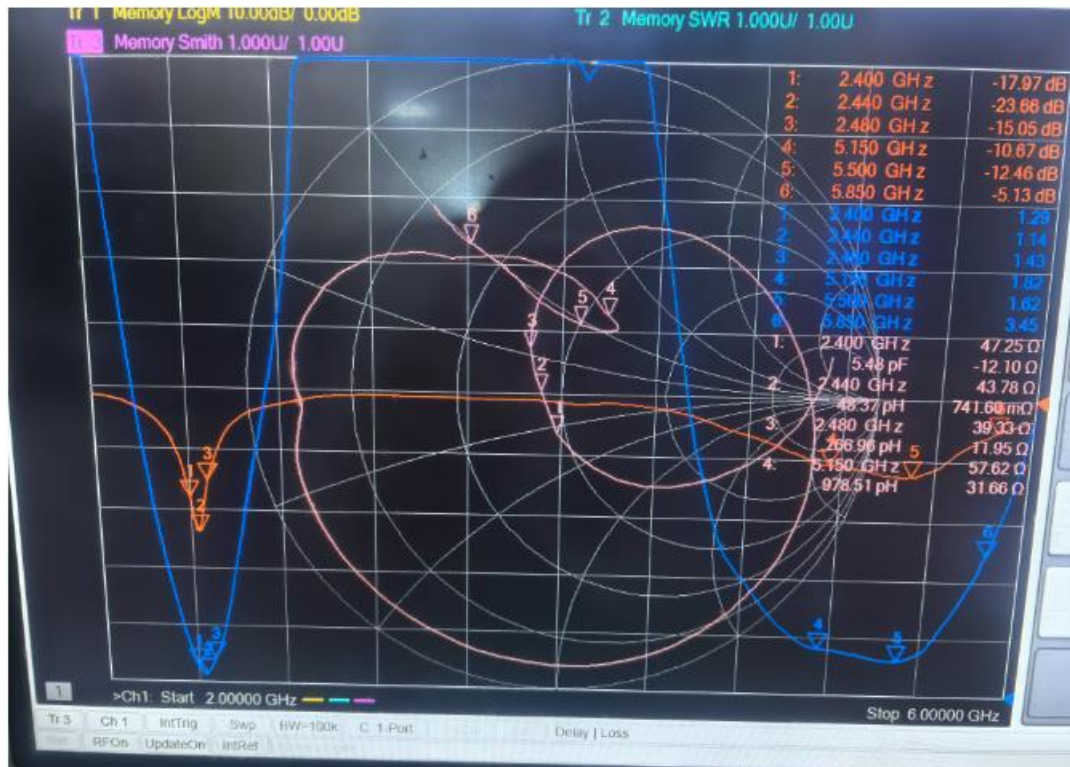
Applicant	GUANDONG KINGSHINE ELECTRONIC TECHNOLOGY CO LTD
Address	No 9 Longshan Eight Road West District Of Dayawan Huizhou City Guangdong Province China

Manufacturer or Supplier	GUANDONG KINGSHINE ELECTRONIC TECHNOLOGY CO LTD
Address	No 9 Longshan Eight Road West District of Dayawan Huizhou City Guangdong Province China
Product	Dongle
Brand Name	A04
Model	USB Dongle
Antenna type	IFA
Max. Peak Gain	2.4G: 1.84dBi , 5G: 0.58dBi
Date of tests	2026-6-10
Tested by Gan zhou	Approved by
周赣	

1. Antenna Size (mm)



2. Return loss & impedance



3. Test standard

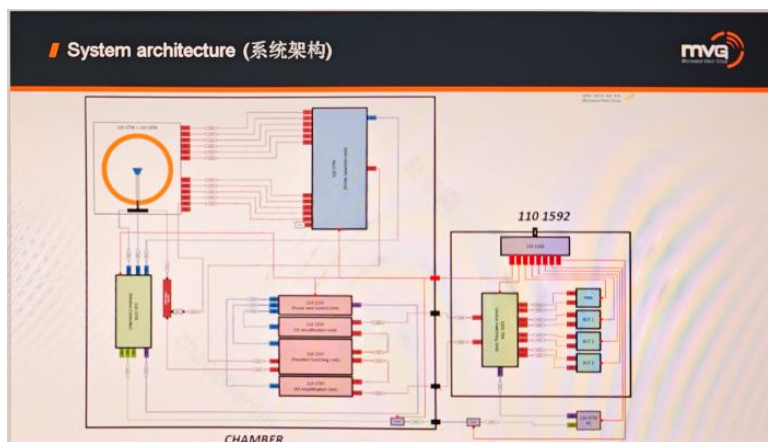
Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4. 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			

5.Test configuration diagram



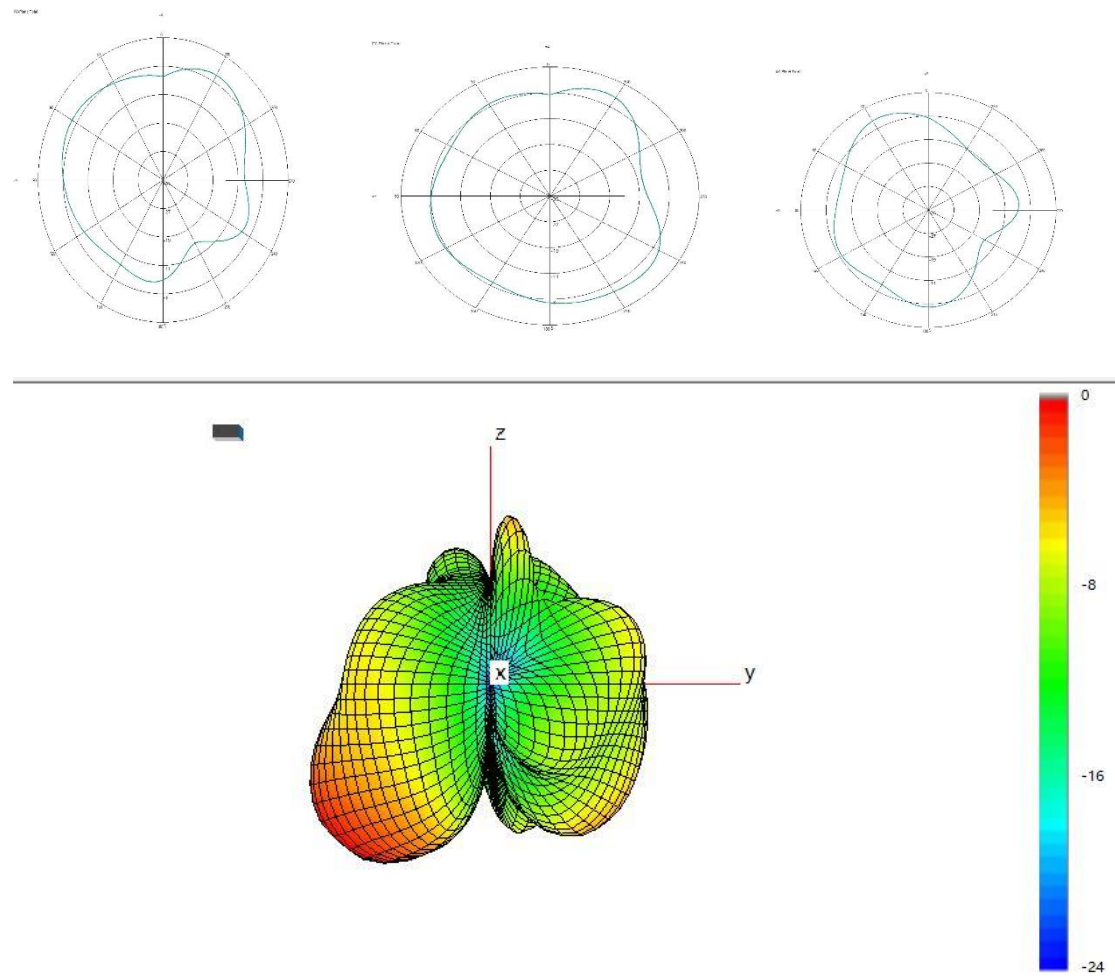
Test step flow:

- 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.

6. Antenna gain

Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
2400	1.52	-3.94	40.37
2410	1.73	-3.83	41.36
2420	1.84	-3.83	41.38
2430	1.74	-3.96	40.14
2440	1.69	-4.04	39.40
2450	1.63	-4.07	39.20
2460	1.62	-4.01	39.73
2470	1.55	-4.03	39.50
2480	1.57	-3.99	39.94
Freq(MHz)	Gain(dB)	Efficiency(dB)	Efficiency(%)
5150	0.58	-4.79	33.20
5200	-0.09	-4.06	39.30
5250	-0.42	-3.93	40.45
5300	-0.69	-4.37	36.53
5350	0.30	-4.68	34.01
5400	0.44	-4.99	31.66
5450	0.16	-4.51	35.42
5500	0.10	-4.57	34.91
5550	-0.10	-4.80	33.13
5600	-0.39	-4.80	33.10
5650	-0.34	-4.92	32.21
5700	-1.01	-5.16	30.51
5750	-1.55	-5.09	30.97
5800	-1.24	-5.36	29.13
5850	-1.21	-6.72	21.26

2440MHz



5500MHZ

