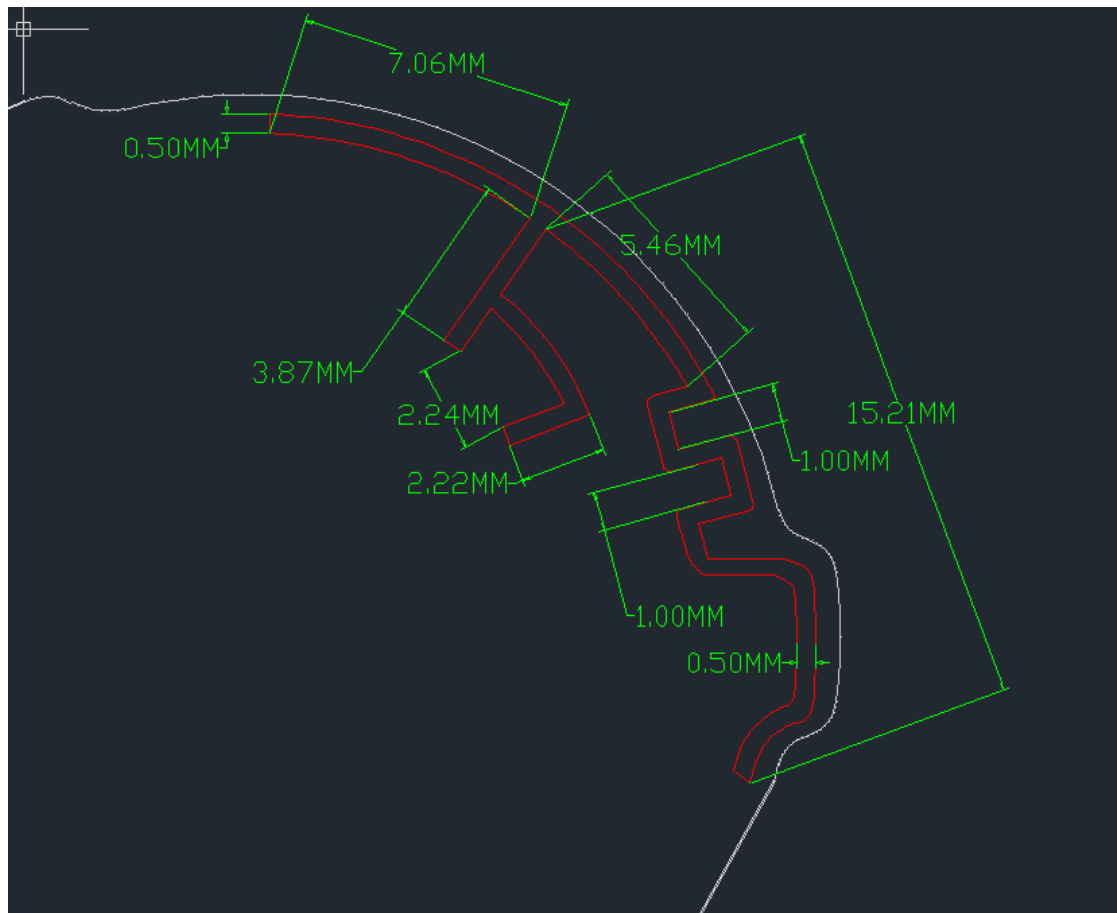


USB Dongle Antenna report

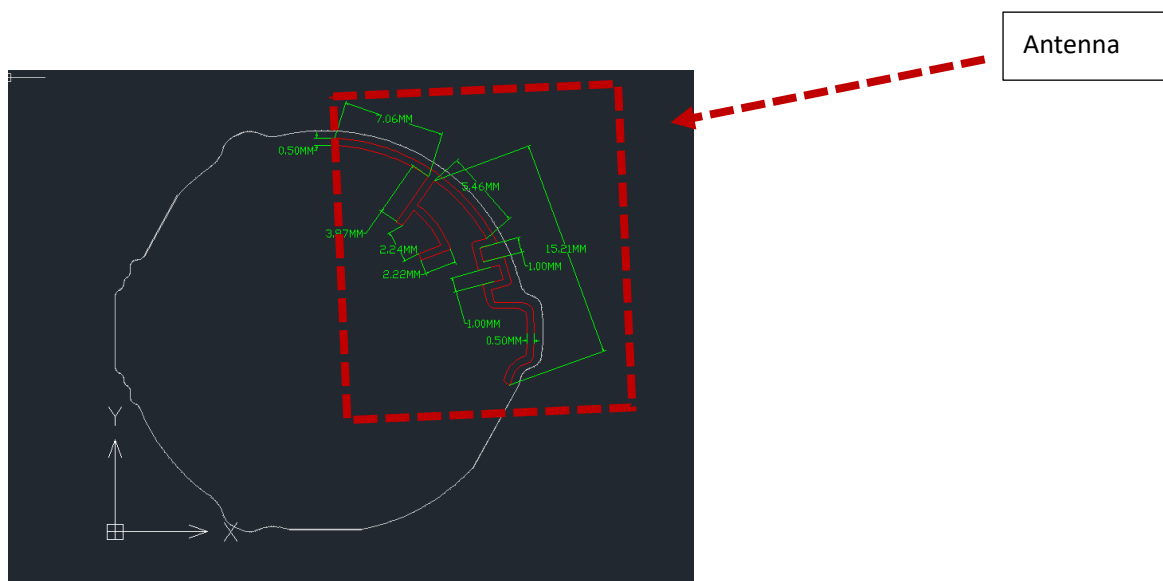
Applicant	GUANDONG KINGSHINE ELECTRONIC TECHNOLOGY CO LTD
Address	No 9 Longshan Eight Road West District Of Dayawan Huizhou City Guangdong Province China

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: 0.13dBi , 5G: 3.46dBi
Date of tests	2026-7-15
Tested by Gan zhou	Approved by
周赣	

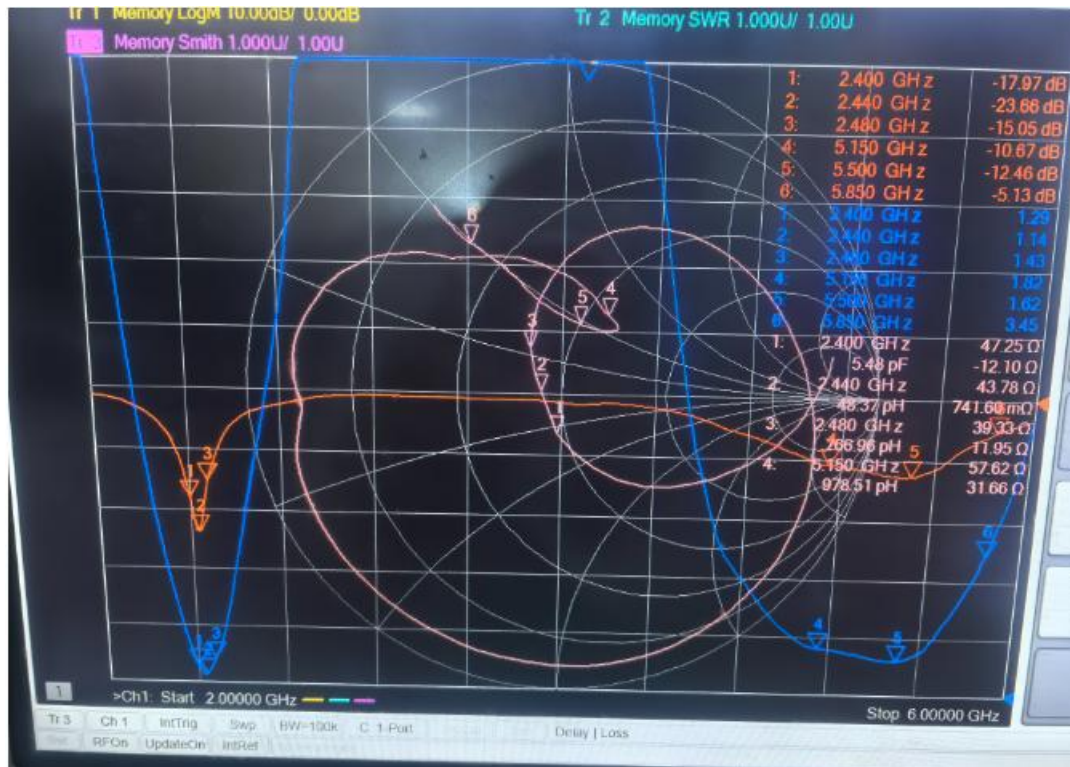
1. Antenna Size (mm)



2. Antenna photo (Please refer to Antena photos document)



3. Return loss & impedance



4. Test standard

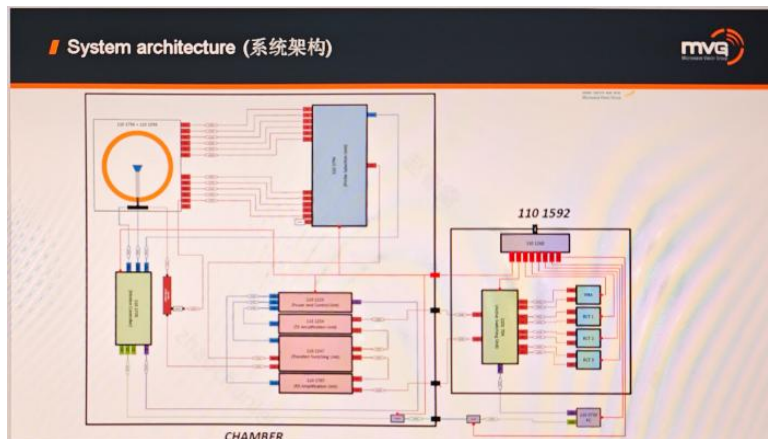
Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

5. Equipment list

Equipment	Manufacturer	Model No	Serial No.	Last Cal.	Due Date
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Network Aanalyzer	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			

6.Test configuration diagram



Test step flow:

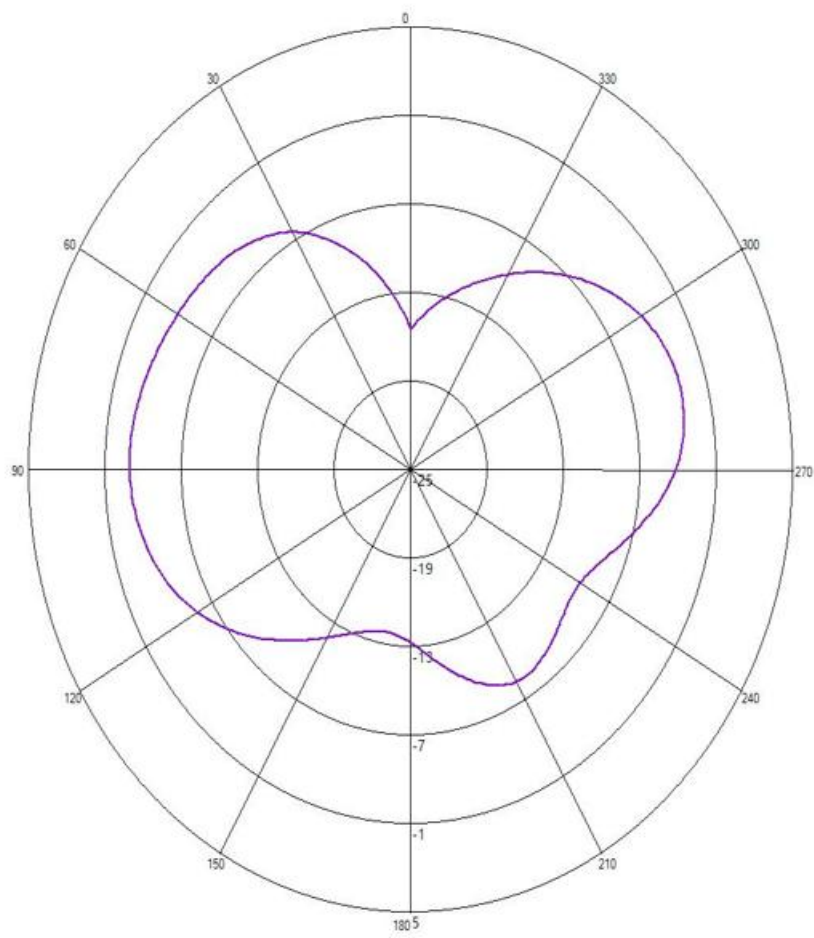
- 1) Maintain the test ambient temperature of 23 ± 2 C, the instrument is powered on and preheated for more than 30 minutes;
- 2) Turn on the darkroom power supply, connect the test cable, and set up the sample according to the standard;
- 3) Outline sets the test content objectives and conducts calibration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

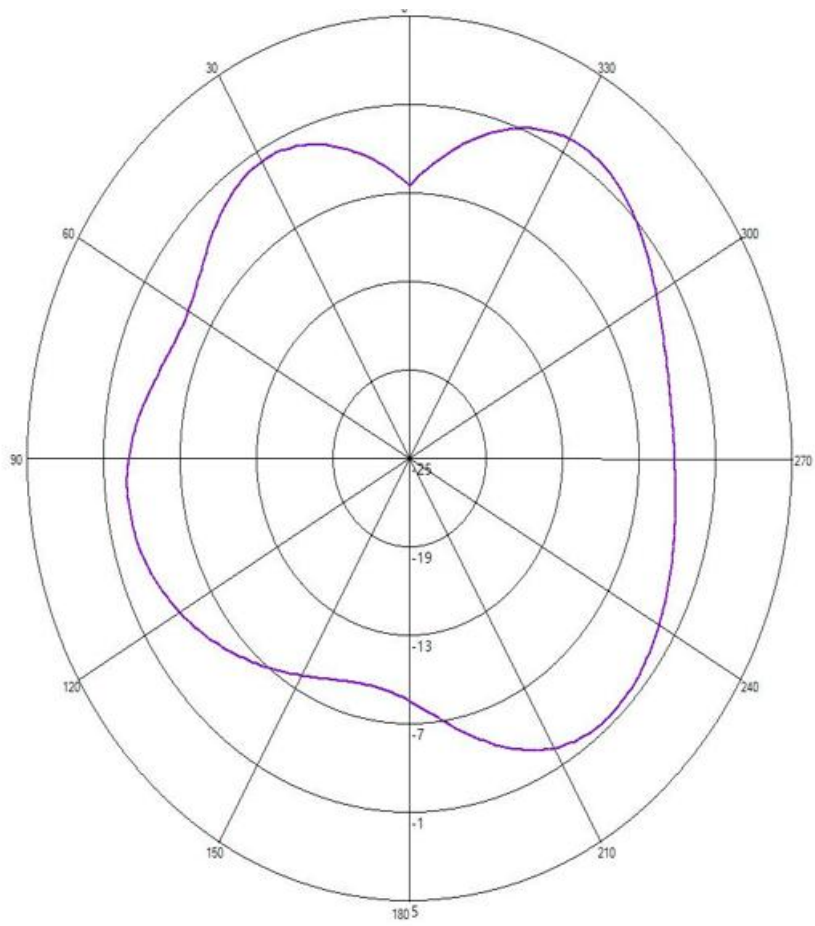
7. Antenna gain

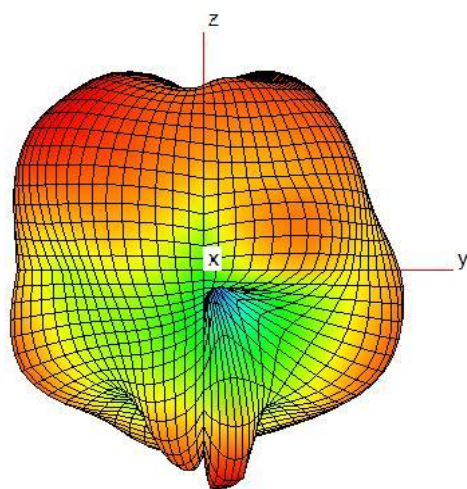
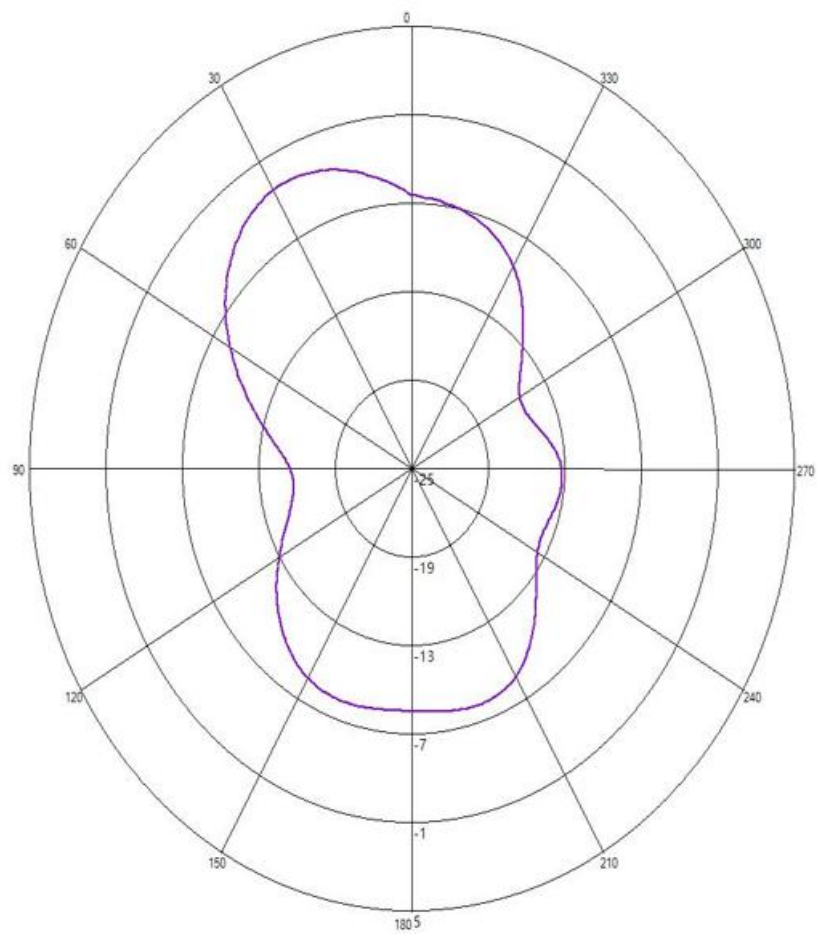
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	0.13	-5.35	29.20
2410	0.08	-5.40	28.84
2420	-0.01	-5.44	28.58
2430	0.05	-5.47	28.39
2440	0.07	-5.49	28.27
2450	0.09	-5.50	28.19
2460	0.03	-5.57	27.75
2470	-0.10	-5.68	27.06
2480	-0.27	-5.83	26.13
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5150	3.46	-3.92	40.60
5200	2.69	-4.36	36.64
5250	1.85	-4.55	35.09
5300	1.52	-4.72	33.74
5350	1.44	-4.19	38.14
5400	1.81	-4.20	38.02
5450	2.19	-4.46	35.80
5500	2.35	-4.48	35.66
5550	2.78	-4.53	35.25
5600	2.84	-4.57	34.88
5650	2.98	-4.31	37.08
5700	2.79	-4.33	36.88
5750	2.29	-4.56	34.99
5800	2.48	-4.37	36.56
5850	1.77	-4.92	32.17

8. Antenna test data

2440MHz







5500MHZ

