

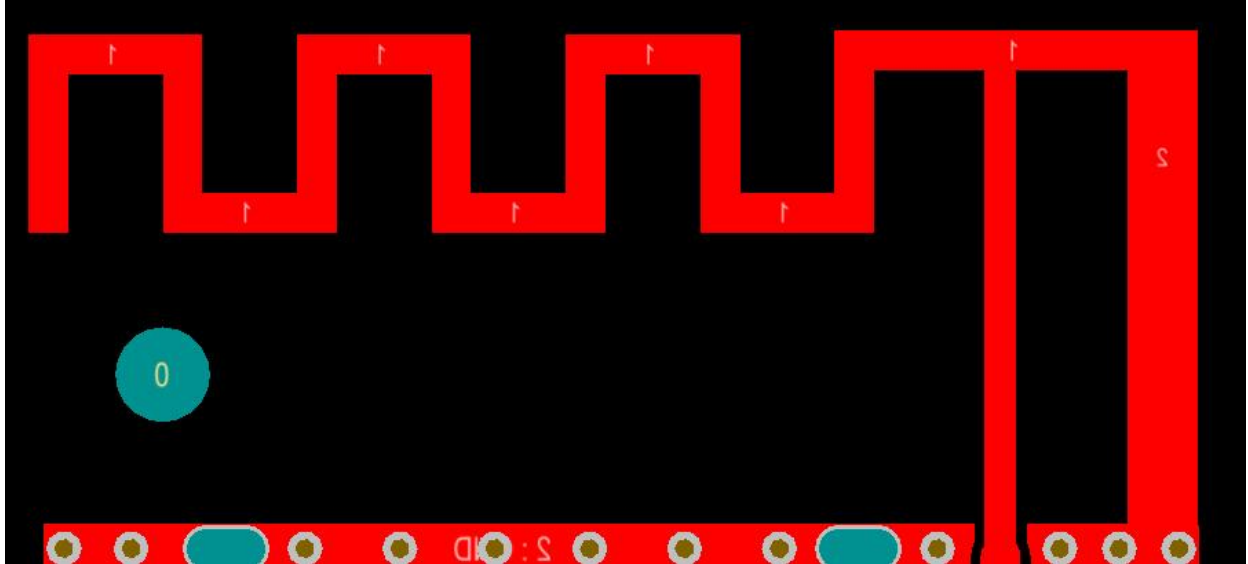
Antenna performance test report

Model used	Modular antenna
Antenna type	☒ PCB printed antenna ☐ PCB Plug-in built-in antenna ☐ Housing mount with built-in antenna
Use frequency band	☒ 2.4~2.5GHz ☐ 5.15~5.85GHz ☐ 2.4~2.5GHz&5.15~5.85GHzdual-band
Manufacture	Chengdu Meross Technology Co., Ltd.

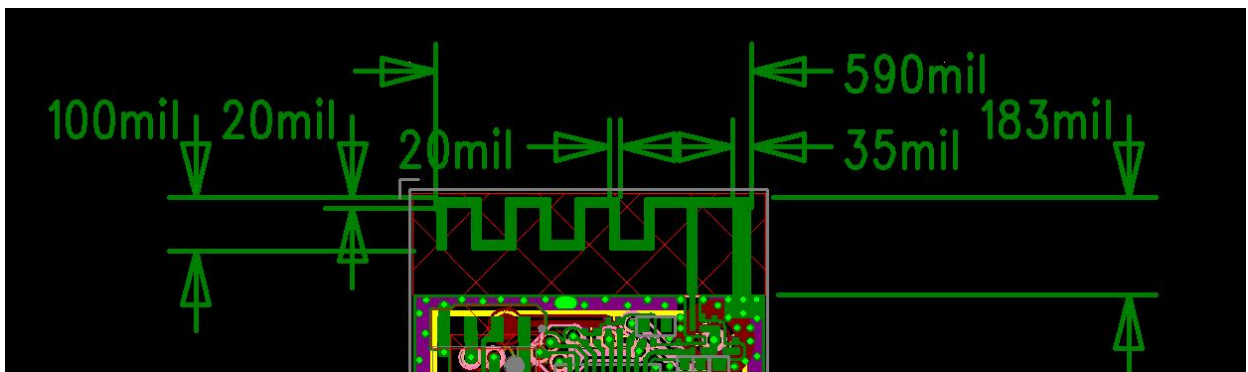
1. Overview of the test antenna

The test antenna is a printed antenna on the board, use for WiFi module, frequency

2.4G-2.5G, Antenna shape is as follows:



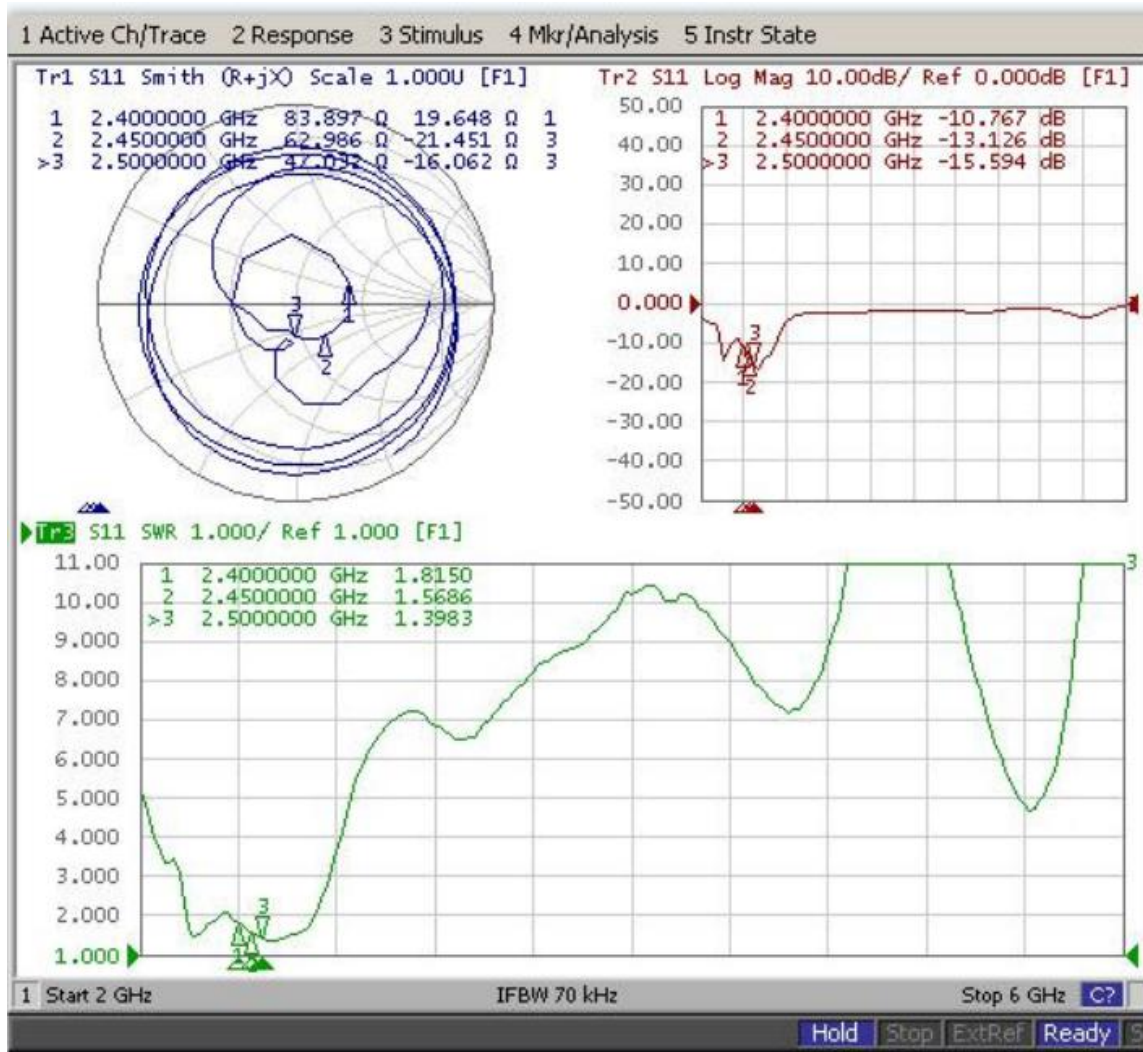
Pcb Antenna dimensions are as follows:



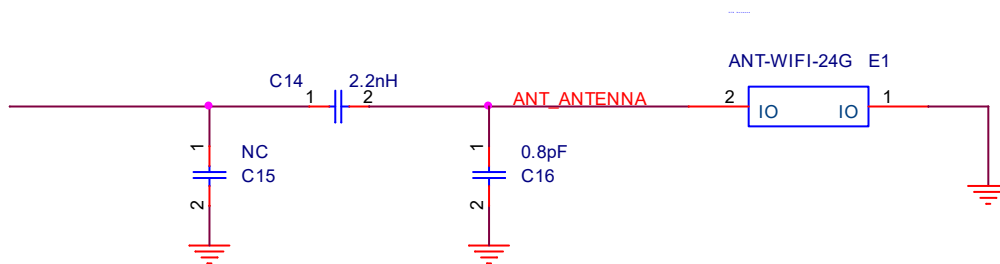
2. Test methods and standards

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEE Std 149-2021

3. Antenna S parameter



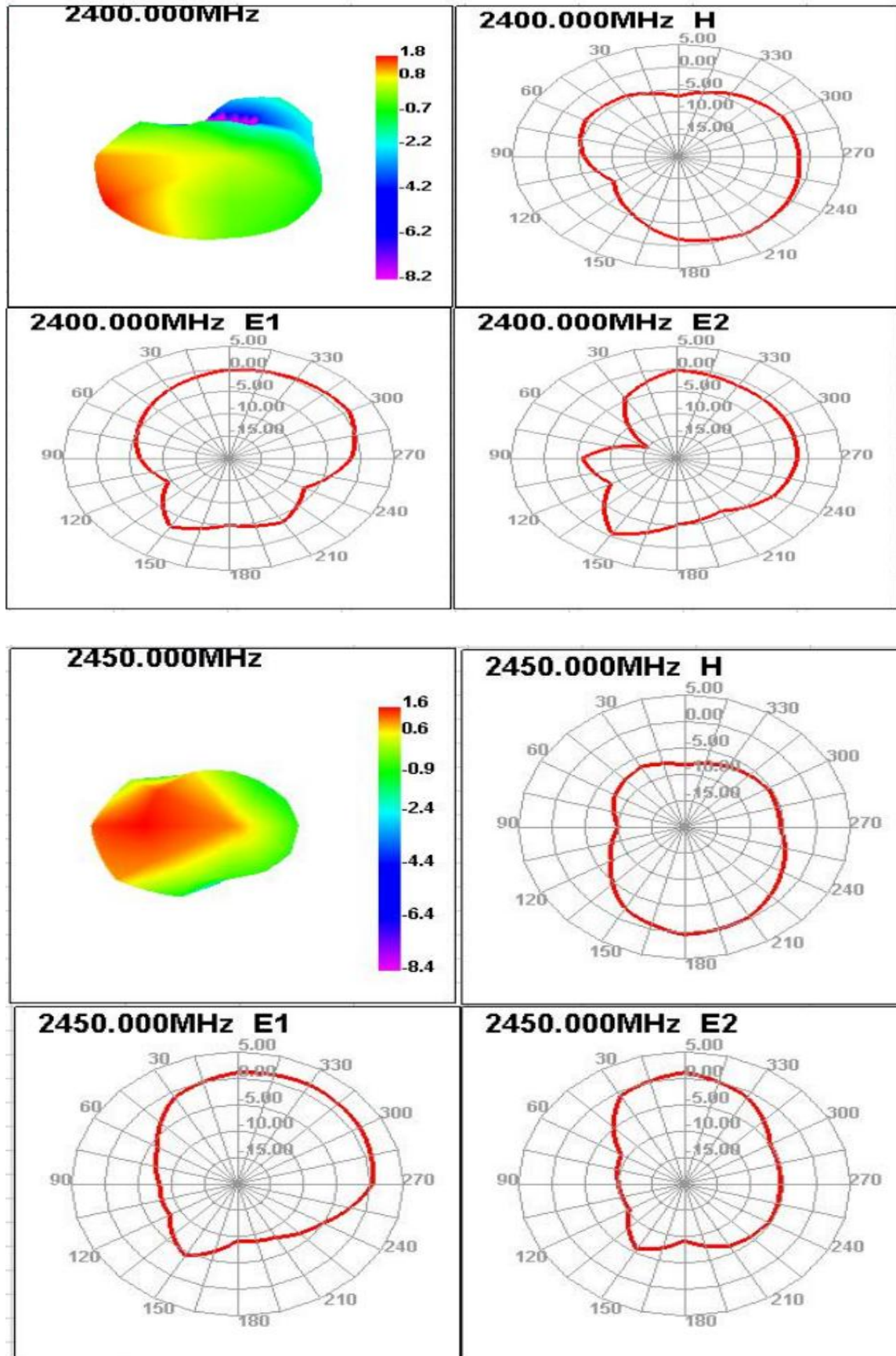
Above S Parameters with antenna matching, Matching circuit Reference circuit is as follows:

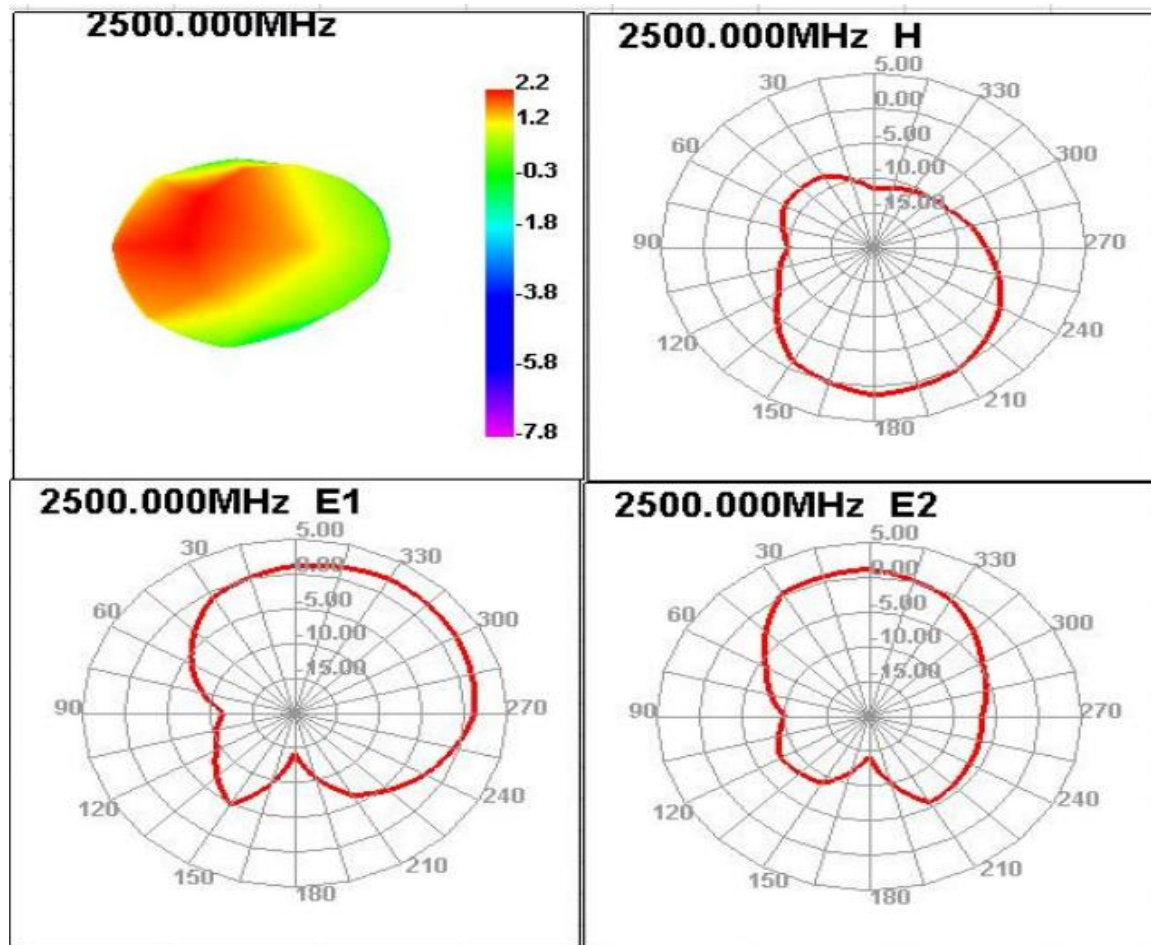


4. Gain and efficiency

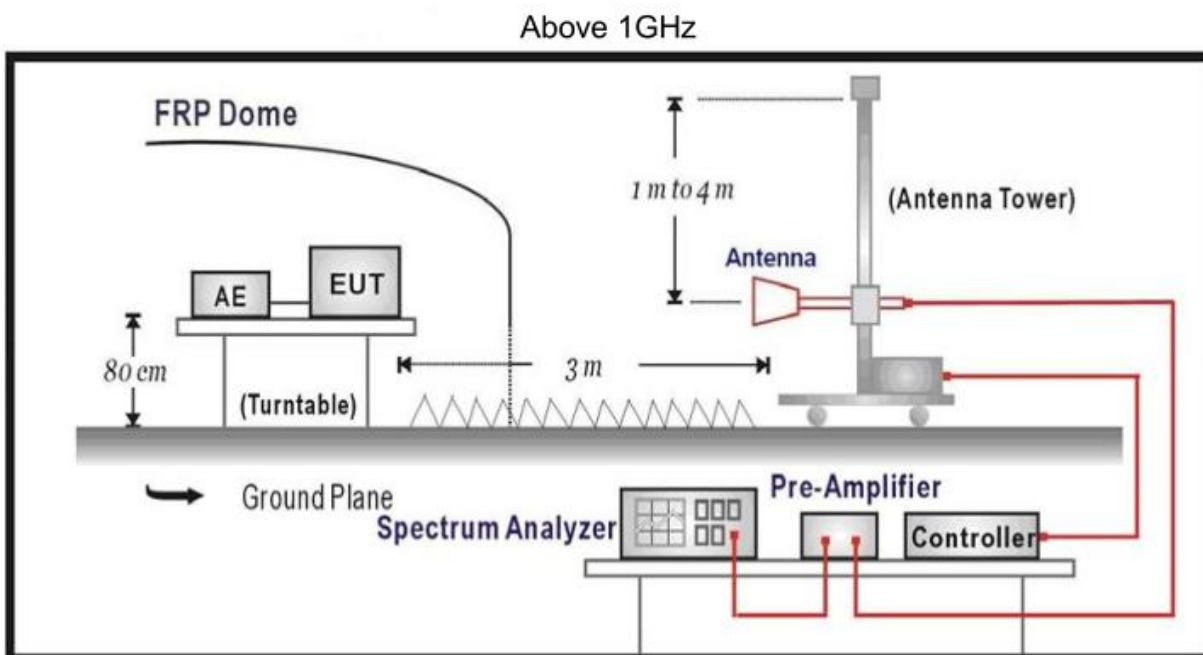
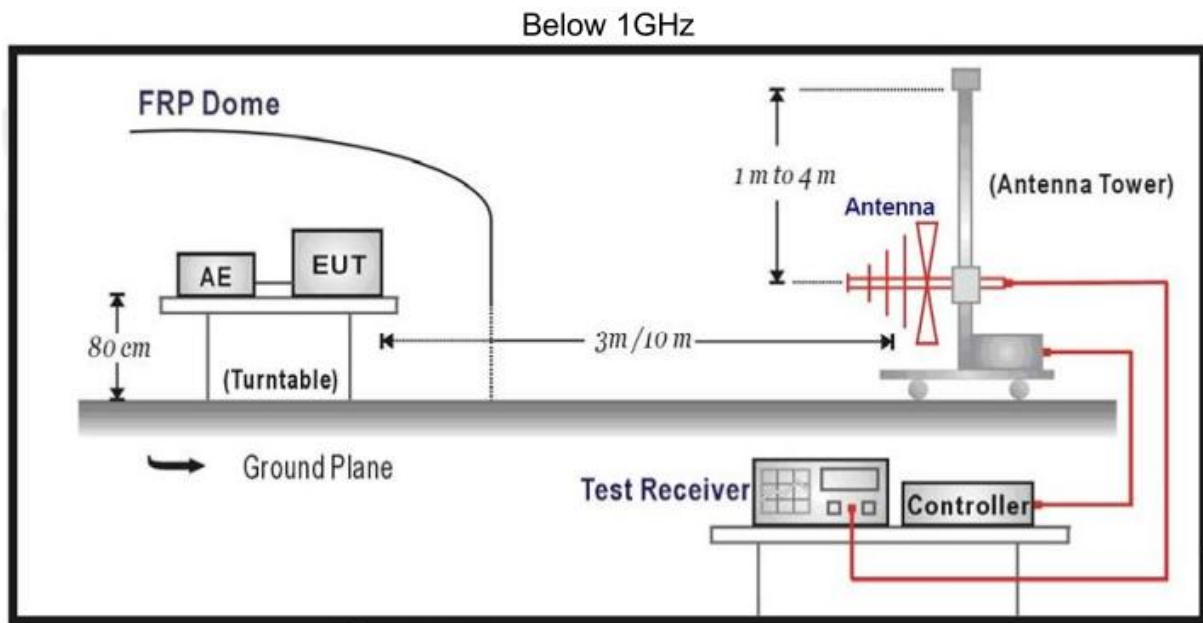
Freq. (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	1.84	1.46	1.14	0.81	1.2	1.65	1.58	1.73	1.95	2.24	2.23
Efficiency	47.66	44.87	42.8	40.11	40.43	41.79	40.16	40.74	43.08	46.18	46.78

5. Direction chart





6. Test configuration diagram



7. Test the environment

Laboratory name	Auden chain,kunshan
Laboratory address	No.15 Ying-Bing Rd Luyang Town Kun Shan Jiang Su,Chain

