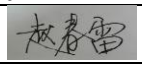
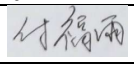
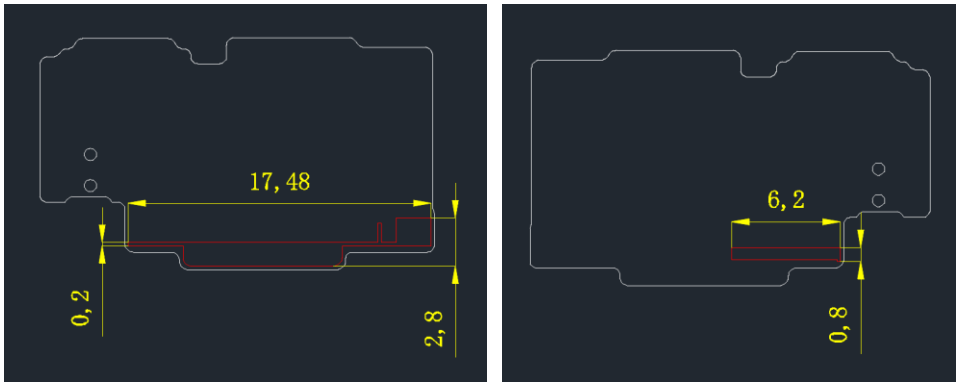
YY2988 Gerneral 2.4G Antenna report of AB1571D

Applicant	HUIZHOU CHINA EAGLE ELECTRONIC TECHNOLOGY CO LTD 2. GUANDONG KINGSHINE ELECTRONIC TECHNOLOGY CO LTD
Address	Zhongjing Road,Chenjiang Street,Zhongkai Hi-tech Zone, Huizhou City,Guangdong Province

Manufacturer or Supplier	HUIZHOU CHINA EAGLE ELECTRONIC TECHNOLOGY CO LTD 2. GUANDONG KINGSHINE ELECTRONIC TECHNOLOGY CO LTD
Address	Zhongjing Road,Chenjiang Street,Zhongkai Hi-tech Zone, Huizhou City,Guangdong Province
Product	AB1571D ANT
Brand Name	SONY
Model	Onboard
Max. Peak Gain	1.69dBi
Date of tests	2025-01-22
Tested by Chunlei Zhao	Approved by fuyu Fu
	

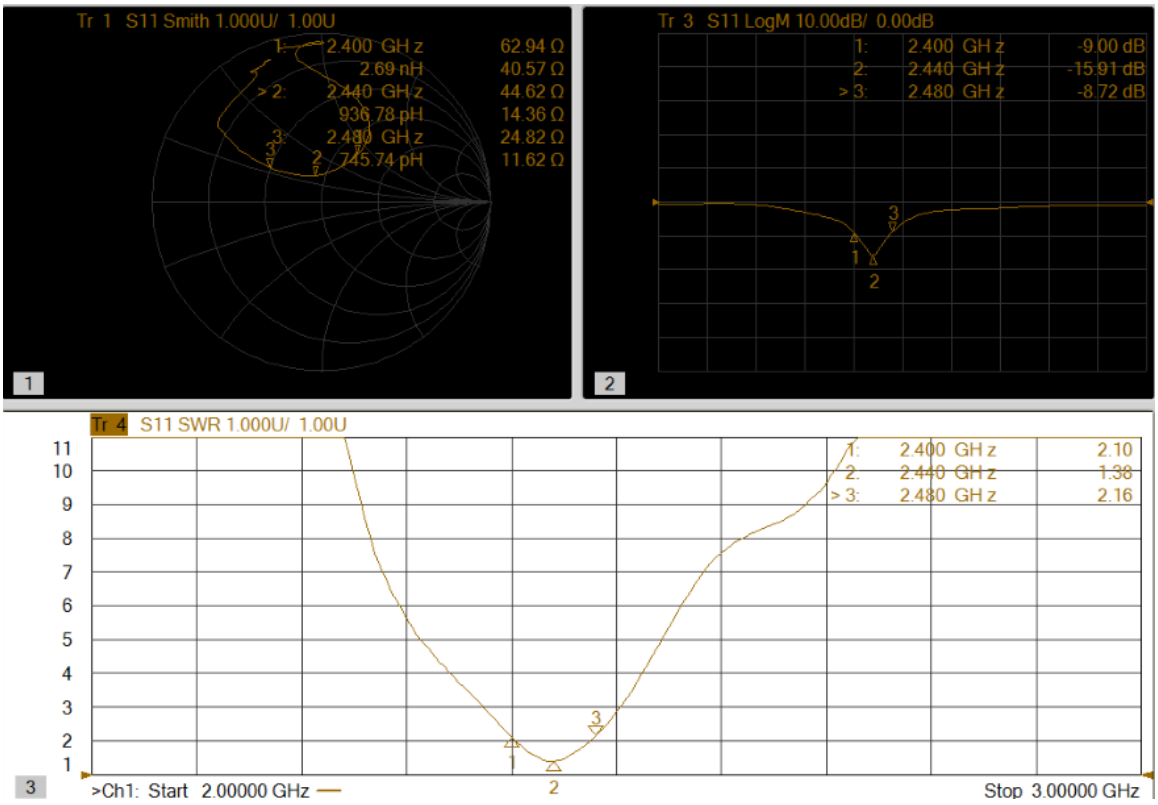
1. Antenna Size（mm）



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

3. Test setup photo（Please refer to Antena photos document）

4. Return loss & impedance



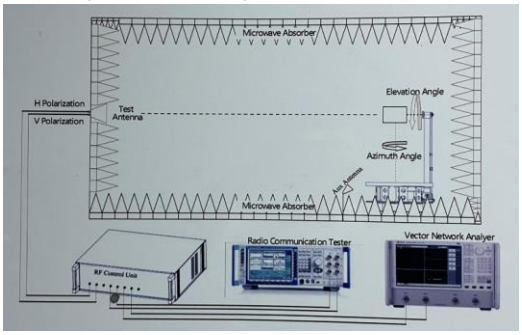
5. Test standard

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	MY46630767	2024.11.27	2025.11.26
Microwave chamber	GTS	GTS Maxsign-Dart7000		2024.11.27	2025.11.26
Turn table	GTS	Dart-700 turn table		2024.11.27	2025.11.26
turn table controller	GTS	Dart-700 turn table controller		2024.11.27	2025.11.26
Broad-Band Horn Antenna	GTS	AT-6000	MA-D0460	2024.11.27	2025.11.26
Test Software	GTS	Libra Version-3.0.3.1		2024.11.27	2025.11.26

7.Test configuration diagram



Test step flow:

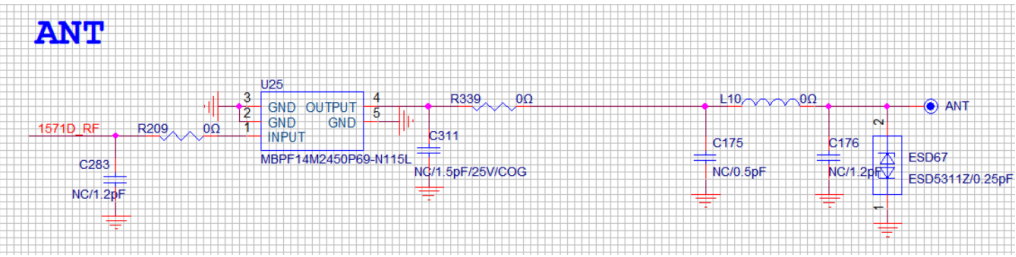
1) Maintain the test ambient temperature of 23±2 C, the instrument is powered on and preheated for more than 30 minutes;

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

dongle			
Fre(MHz)	Gain	Effi(dB)	Effi(%)
2400	1.45	-5.04	31.36
2410	1.10	-5.00	31.59
2420	1.49	-5.01	31.55
2430	1.69	-4.91	32.26
2440	1.48	-4.78	33.25
2450	1.41	-4.84	32.80
2460	1.53	-4.62	34.53
2470	1.50	-4.86	32.66
2480	1.47	-4.73	33.65
2490	1.53	-4.87	32.60
AVG.	1.47	-4.87	32.63

10. Antenna test data

2440MHz