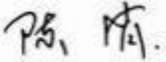


Antenna specification

Engineer:		Date: 2025.03. 12
Auditor:		Date: 2024.03. 12
Approver:		Date: 2024.03. 12

1. General Information

1.1 General Information of testing institutions

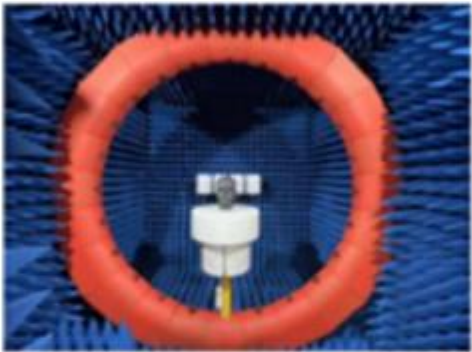
Name	Shenzhen Hetuo Technology Co., Ltd.
Address	Room 1202B, Building C6, Hengfeng Industrial City, Xixiang, Baoan District, Shenzhen
Tel	18665849001
E-mail	18665849001@163.com
Equipment	Agilent 5071C

1.2 Testing principle

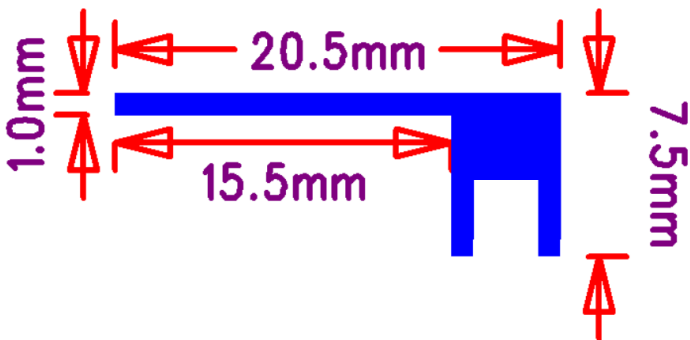
2. Test System

Multi-probe OTA Measurement System

Gain & Efficiency	Gain & Efficiency	SATIMO Agilent 5071C
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Antenna Photo & Lenght(mm)



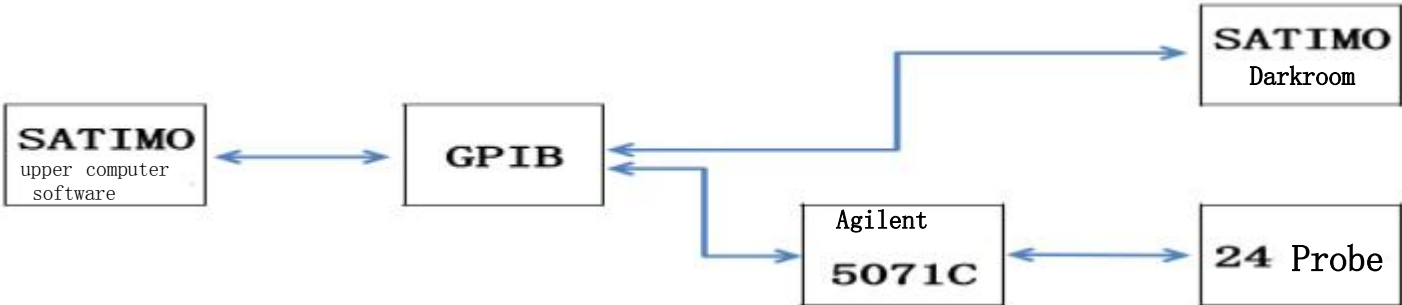
1.3 Test equipment

Equipment	Model No.	Serial No.	Manufacturer	Calibration date	Next calibration date
24 probe microwave chamber	4*3*3	NA	SATIMO	2025.02.29	2025.05.29
Network Analyzer	5071C	NA	Agilent	2025.02.29	2025.05.29

1.4 Test environment

Temperature	24 C ± 1.5 C
Humidity	45%RH
Pressure	101kPa

1.5 Brief summary of Procedure



1. SATIMO turn on the Upper Computer Software, Name: VeryView99.exe, Version No.: V1.10;
2. VeryView99 via GPIB (General Purpose Interface Bus) to control the shielding room (darkroom)'s SATIMO;
3. Meanwhiel, GPIB control the Agilent 5071C to read the Antenna data by 24 Probe;
4. Agilent 5071C will analyse the data and generate the result;
5. Agilent 5071C will feedback to VeryView99 software to generate the test report.

2. Sample Information

2.1 Client information

Name	Hangzhou Huiji Technology Co., Ltd
Address	Room 02-030, No. 1666 Economic and Technological Development Zone, Xinjie Street, Xiaoshan, District, Hangzhou City, Zhejiang Province, China

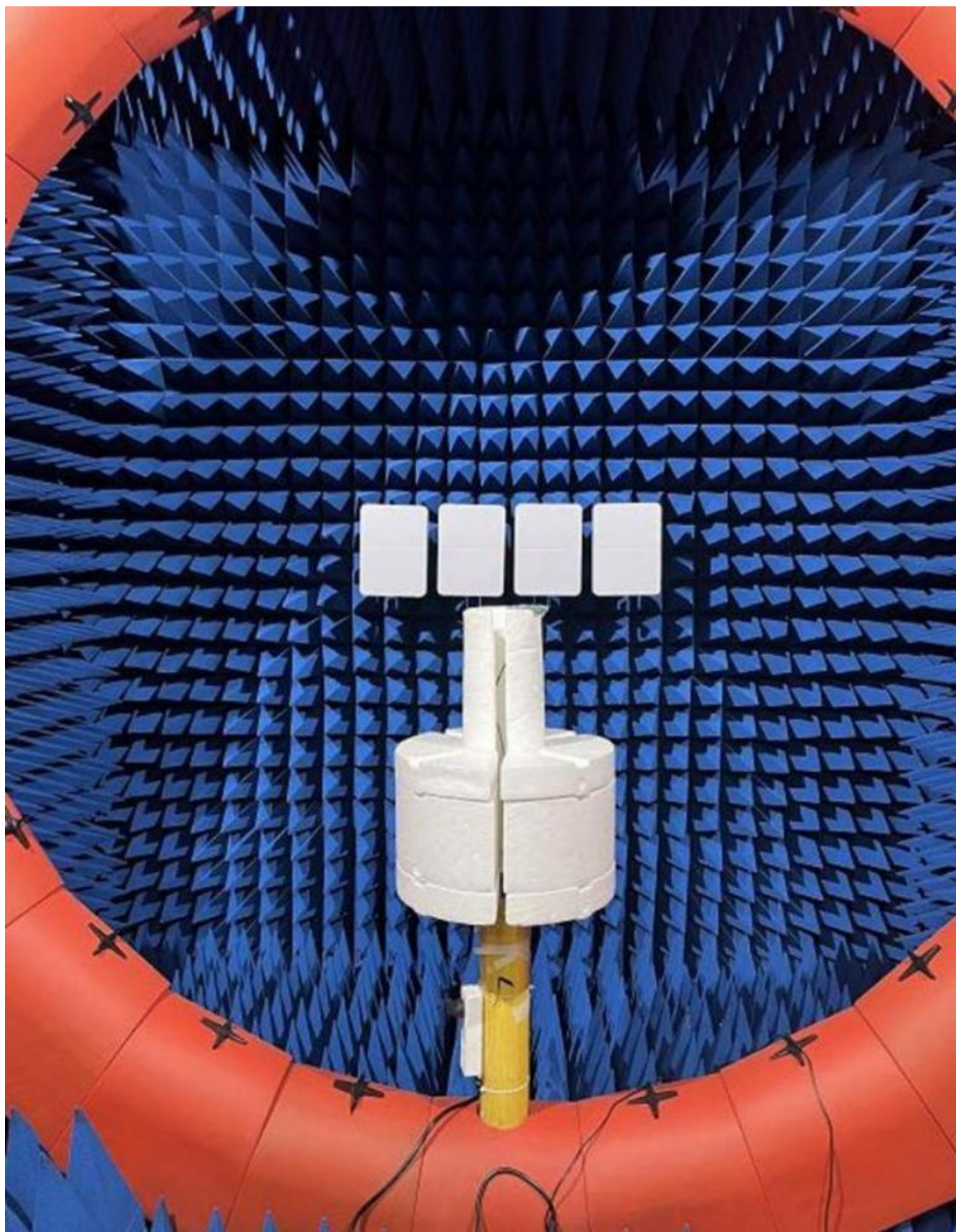
2.2 Manufacturer information

Name	Hangzhou Huiji Technology Co., Ltd
Address	Room 02-030, No. 1666 Economic and Technological Development Zone, Xinjie Street, Xiaoshan, District, Hangzhou City, Zhejiang Province, China

2.3 Description of EUT(S)

Product Name	Bluetooth&WIFI Antenna
Sample Model	ANT-C-8601
Antenna Size	20.50*7.50mm
Antenna Type	PCB Antenna
Serial No.	/
Test Item	Antenna Gain, Radiation pattern
Frequency Range	2400-2500MHz
Received Date	2025.03.12
Test Date	2025.03. 12
Remark	The length of the RF cable is 50mm

The test photos



Test data



深圳市合拓科技有限公司

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-3.73	-3.59	-3.57	-3.62	-3.82	-3.83	-4.07	-3.91	-3.95	-3.88	-3.75
Gain (dBi)	0.11	0.56	1.05	0.63	-0.07	0.34	0.16	0.75	0.83	0.41	0.25
Efficiency (%)	42.34	43.80	43.95	43.50	41.51	41.39	39.14	40.66	40.24	40.89	42.17
Directivity (dB)	3.84	4.15	4.62	4.24	3.75	4.17	4.23	4.66	4.78	4.30	4.00
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	75.00	75.00	90.00
Peak Gain Position (Phi)	195.00	210.00	210.00	225.00	210.00	0.00	0.00	330.00	315.00	285.00	165.00
Efficiency ThetaPol (%)	37.84	39.43	39.43	39.38	37.87	37.74	35.50	36.91	36.38	37.07	38.21
Efficiency PhiPol (%)	4.50	4.37	4.52	4.12	3.64	3.65	3.63	3.75	3.86	3.82	3.96
Upper Hem. Efficiency (%)	24.98	25.79	25.95	25.64	24.30	24.09	22.76	23.85	23.98	24.43	25.39
Lower Hem. Efficiency (%)	17.36	18.01	18.00	17.86	17.22	17.30	16.38	16.80	16.27	16.46	16.78

