

Antenna Test Report

Report No.: AGC08389250802PA02

PRODUCT DESIGNATION : Smart Android Car TV

BRAND NAME : N/A

MODEL NAME : AT160

APPLICANT : Shenzhen Kejinming Electronic Co.,Ltd

DATE OF ISSUE : Sep. 08, 2025

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2025	Valid	Initial Release

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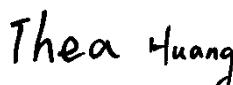
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1. General Information

Applicant	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Manufacturer	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Factory	Shenzhen Kejinming Electronic Co.,Ltd
Address	Floor1-6,BlockB7,YintianIndustrialPark,Yantian Community,XixiangStreet,Bao'anDist.,Shenzhen,Guangdong,China
Product Designation	Smart Android Car TV
Brand Name	N/A
Test Model	AT160
Series Model(s)	AT133, AT123, AT110, AT101
Difference Description	All the same except the model name.
Date of receipt of test item	Aug. 18, 2025
Date of Test	Aug. 18, 2025~Sep. 01, 2025
Test Report Form No	AGCER-OTA- Passive -V1

Note: The test results of this report relate only to the tested sample identified in this report.

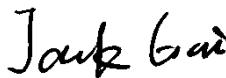
Prepared By



Thea Huang
(Project Engineer)

Sep. 08, 2025

Reviewed By



Jack Gui
(Reviewer)

Sep. 08, 2025

Approved By



Angela Li
(Authorized Officer)

Sep. 08, 2025

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2. Product Technical Information

2.4GWIFI Technical information	
Frequency Range	2400MHz-2500MHz
Test Frequency	2400MHz;2410MHz,2420MHz,2430MHz,2440MHz,2450MHz,2460MHz,2470MHz,2480MHz,2490MHz, 2500MHz
Antenna Type	Ceramic antenna
Dimensions	3mm 8mm
Impedance	50Ω
Maximum test values	2.4GWIFI Gain: -0.169dBi; Efficiency: 16.042%; VSWR: 1.094:1
5GWIFI Technical information	
Frequency Range	5000-6000MHz
Test Frequency	5000MHz, 5100MHz, 5200MHz, 5300MHz, 5400MHz, 5500MHz, 5600MHz, 5700MHz, 5800MHz, 5900MHz, 6000MHz
Antenna Type	Ceramic antenna
Dimensions	3mm 8mm
Impedance	50Ω
Maximum test values	Gain: 5.336dBi; Efficiency:8.197%; VSWR: 1.254 U

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3. Test Summary List

NO.	Test item	Remark
1	VSWR	--
2	Gain and efficiency	--
3	Radiation pattern	--

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4. Test Environment

4.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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4.3 Environmental Conditions

Normal Conditions	
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 12V from adapter or DC 12V from Car charger

4.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of VSWR	$U_c = \pm 1.5 \text{ dB}$
Uncertainty of Gain	$U_c = \pm 0.8 \text{ dB}$

4.5 List of Equipment Used

Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
<input checked="" type="checkbox"/>	Antenna Measurement System	ETS-Lindgren	AMS-8600	N/A	2024.11.27	2025.11.26
<input checked="" type="checkbox"/>	Network Analyzer	R&S	101443	N/A	2025.07.24	2026.07.23

Test Software

Used	Test Equipment	Manufacturer	Model No.	Version Information
<input checked="" type="checkbox"/>	Test software	ETS-Lindgren	EMQuest	Ver V1.12

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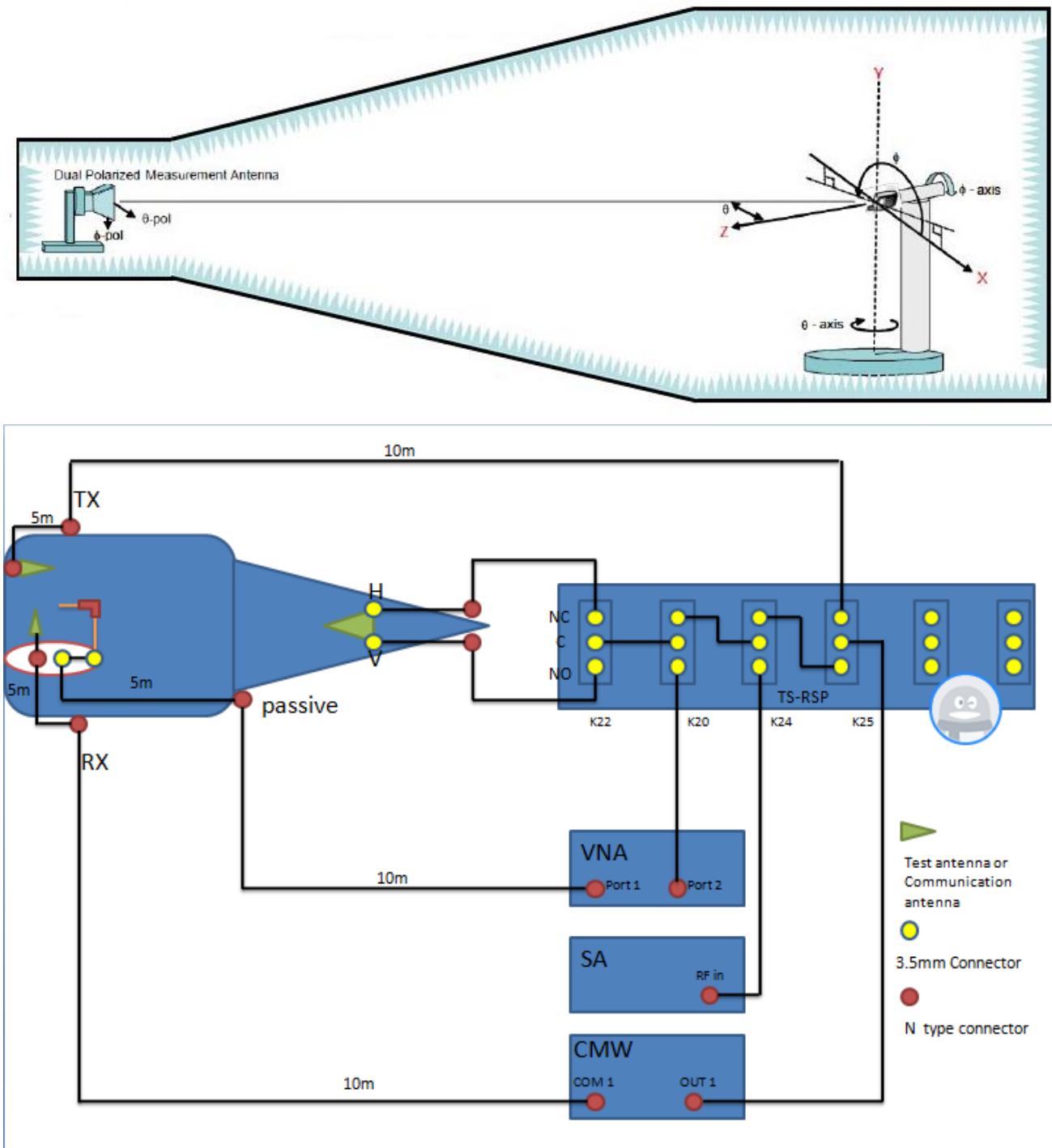
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5. Antenna Passive Measurement Results

5.1 Test Setup



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5.2 VSWR Test Result

Frequency (MHz)	VSWR
2402	1.079:1
2450	1.060:1
2478	1.094:1
2480	1.086:1



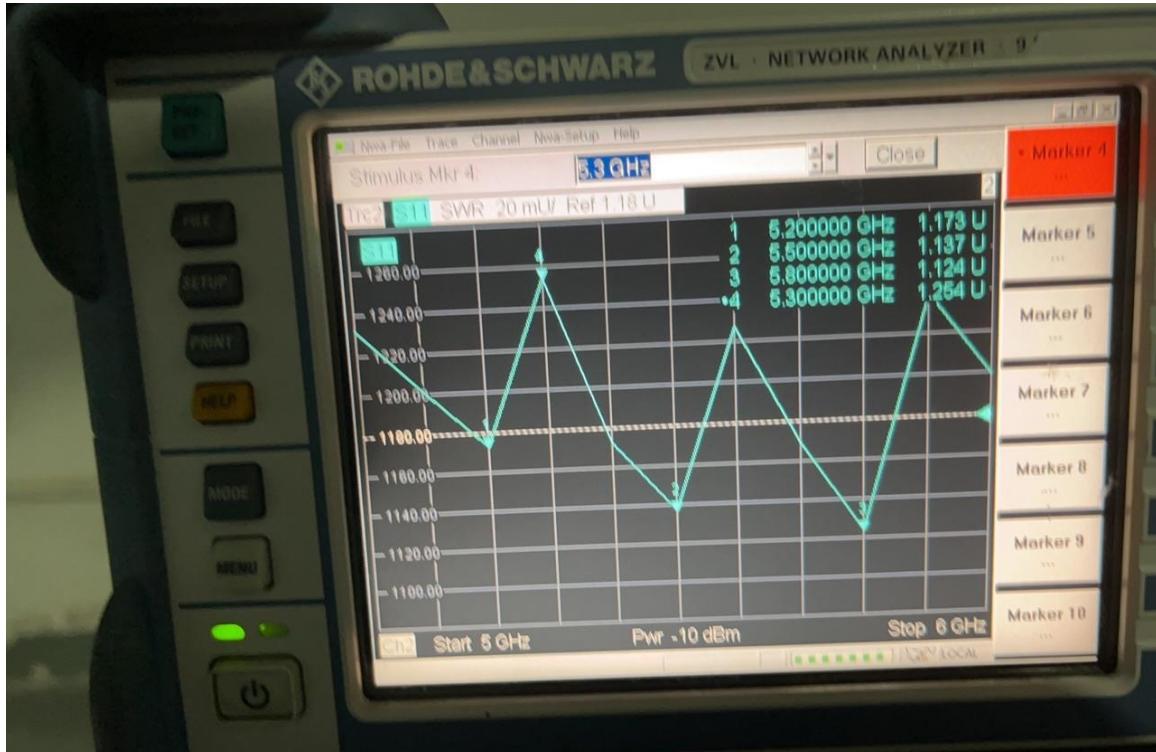
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Frequency (MHz)	VSWR
5200	1.173 U
5500	1.137 U
5800	1.124 U
5300	1.254 U



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5.3 Gain and Efficiency Test Result

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2400	-7.947	16.042	-0.374
2410	-8.103	15.478	-0.670
2420	-8.336	14.668	-1.168
2430	-8.232	15.024	-0.871
2440	-8.294	14.811	-0.774
2450	-8.624	13.728	-0.832
2460	-9.061	12.413	-1.010
2470	-9.766	10.554	-0.782
2480	-10.111	9.748	-0.510
2490	-10.355	9.216	-0.316
2500	-10.298	9.337	-0.169

Frequency (MHz)	Efficiency (dB)	Efficiency (%)	Gain (dBi)
5000	-11.891	6.470	5.133
5100	-12.021	6.279	5.227
5200	-12.261	5.942	5.336
5300	-12.061	6.222	4.982
5400	-11.928	6.415	4.711
5500	-11.866	6.508	4.496
5600	-11.687	6.781	4.316
5700	-11.676	6.798	4.477
5800	-11.289	7.433	4.261
5900	-11.020	7.907	4.090
6000	-10.863	8.197	3.951

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5.4 Radiation Pattern Diagram

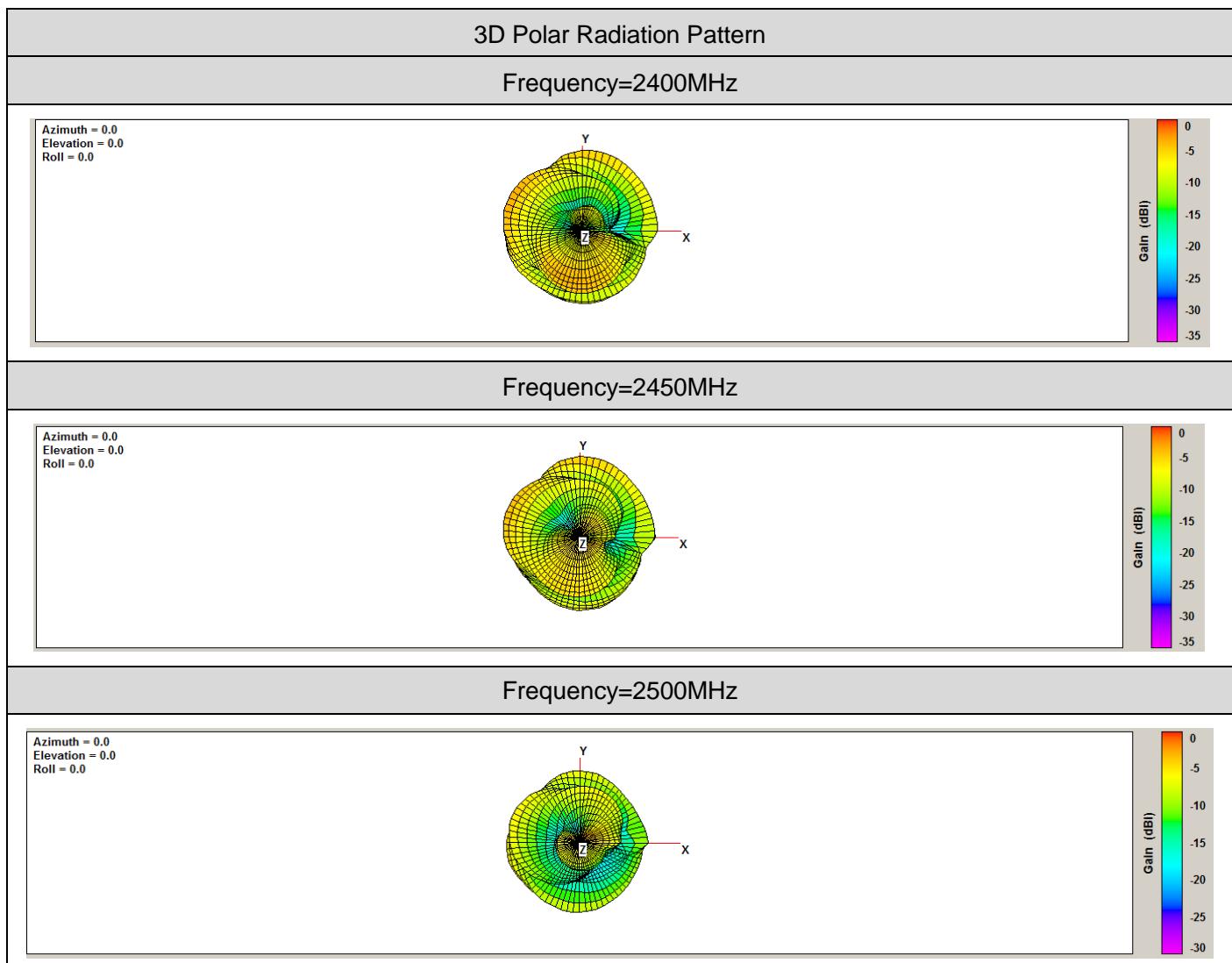


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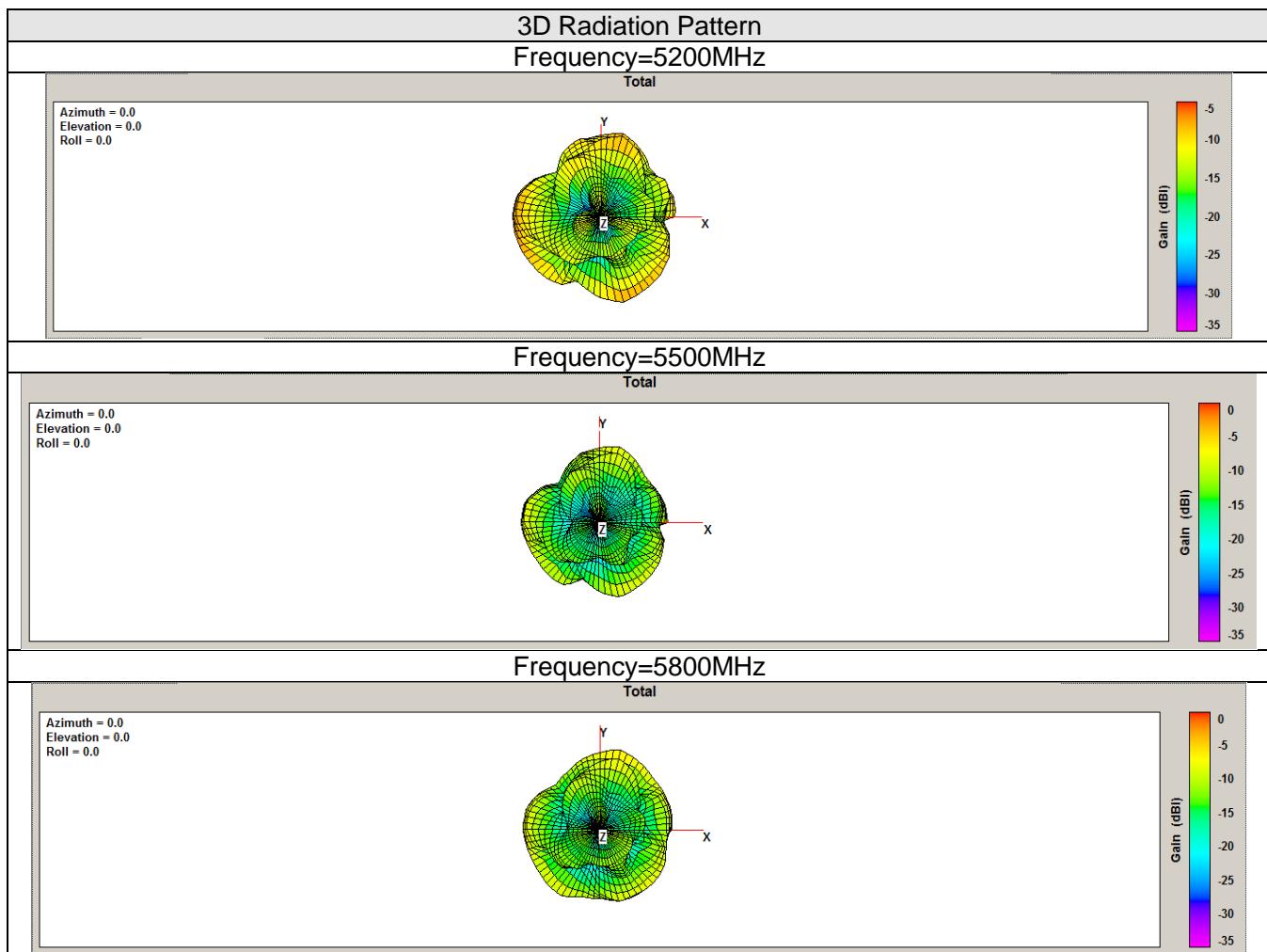


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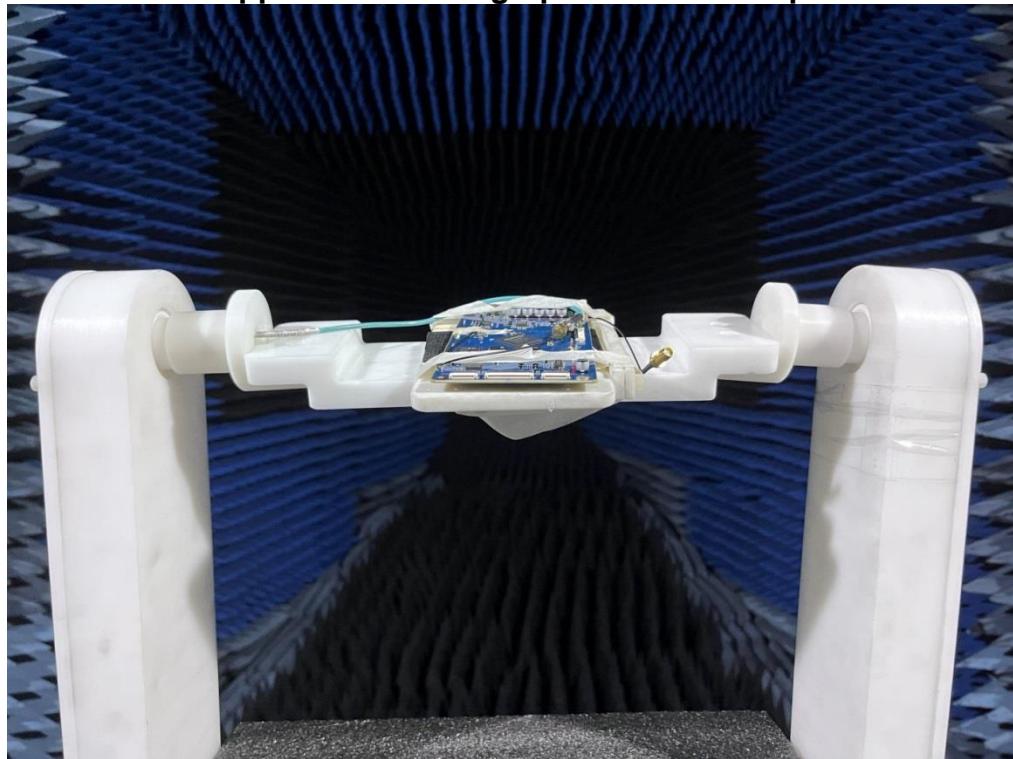


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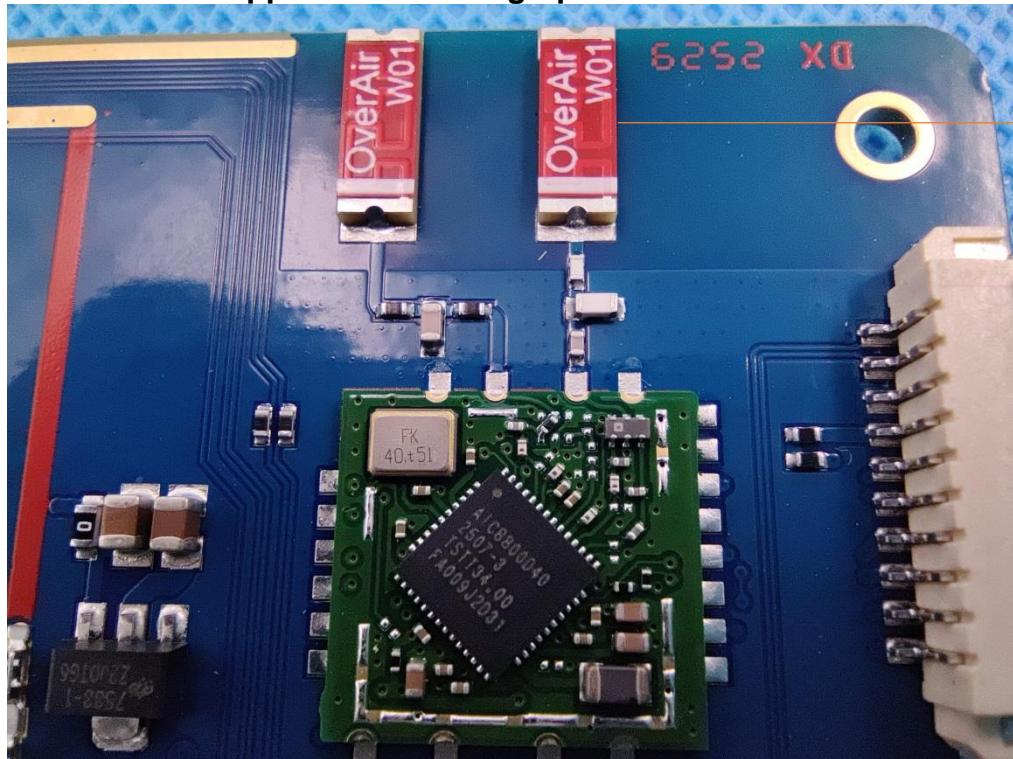
Appendix I: Photographs of Test Setup

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Appendix II: Photographs of Test EUT

2.4GWI&
5GWI
Antenna

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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