
Antenna Test Report

Report No.: AGC06913240702PA01

PRODUCT DESIGNATION : Bluetooth 5.3 LE Audio Transceiver

BRAND NAME : Audeara

MODEL NAME : BT-LE

APPLICANT : Audeara Ltd

DATE OF ISSUE : Aug, 21, 2024

REPORT VERSION : V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug, 21, 2024	Valid	Initial release

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1. PRODUCT INFORMATION

General information	
Applicant	Audeara Ltd
Address	Level 1, North Tower, 527 Gregory Terrace, Bowen Hills QLD 4006 Australia
Manufacturer	SHENZHEN AKAUDIO CO., LTD
Address	7/F, A Bldg(#2), 1st Shuichanjiangwan Industrial Park, Nanchang Village, Gushu, XiXiang, Bao'an Dist, Shenzhen, China
Factory	SHENZHEN AKAUDIO CO., LTD
Address	7/F, A Bldg(#2), 1st Shuichanjiangwan Industrial Park, Nanchang Village, Gushu, XiXiang, Bao'an Dist, Shenzhen, China
Product Designation	Bluetooth 5.3 LE Audio Transceiver
Brand Name	Audeara
Test Model	BT-LE
Series Model	N/A
Difference Description	N/A
Date of test	Aug. 20, 2024
Report Template	AGCRT-ER-PA/V1.0
Technical information	
Frequency Range	2400-2500MHz
Test Frequencies	2400MHz, 2410MHz, 2420MHz, 2430MHz, 2440MHz, 2450MHz, 2460MHz, 2470MHz, 2480MHz, 2490MHz, 2500MHz
Antenna Type	FPC antenna
Dimensions	22*6mm
Impedance	50 Ω
Maximum test values	Gain: -2.27dBi; Efficiency: 11.34%; VSWR: 1.08:1

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd.

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

Prepared By

Thea Huang

Thea Huang
(Project Engineer)

Aug. 21, 2024

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Aug. 21, 2024

Approved By

Max Zhang

Max Zhang
Authorized Officer

Aug. 21, 2024

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2. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Cal. Date	Cal. Due
ANTENNA MEASUREMENT SYSTEM	ETS-Lindgren	AMS-8600	Nov. 20, 2023	Nov. 19, 2024
Network Analyzer	R&S	ZVL-6	Oct. 04, 2023	Oct. 03, 2024
Test software	ETS-Lindgren	EMQuest (Ver V1.12)	N/A	N/A

4. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of VSWR, $U_c = \pm 1.5\text{dB}$
- Uncertainty of Gain, $U_c = \pm 0.8\text{dB}$

5. TEST SUMMARY LIST

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

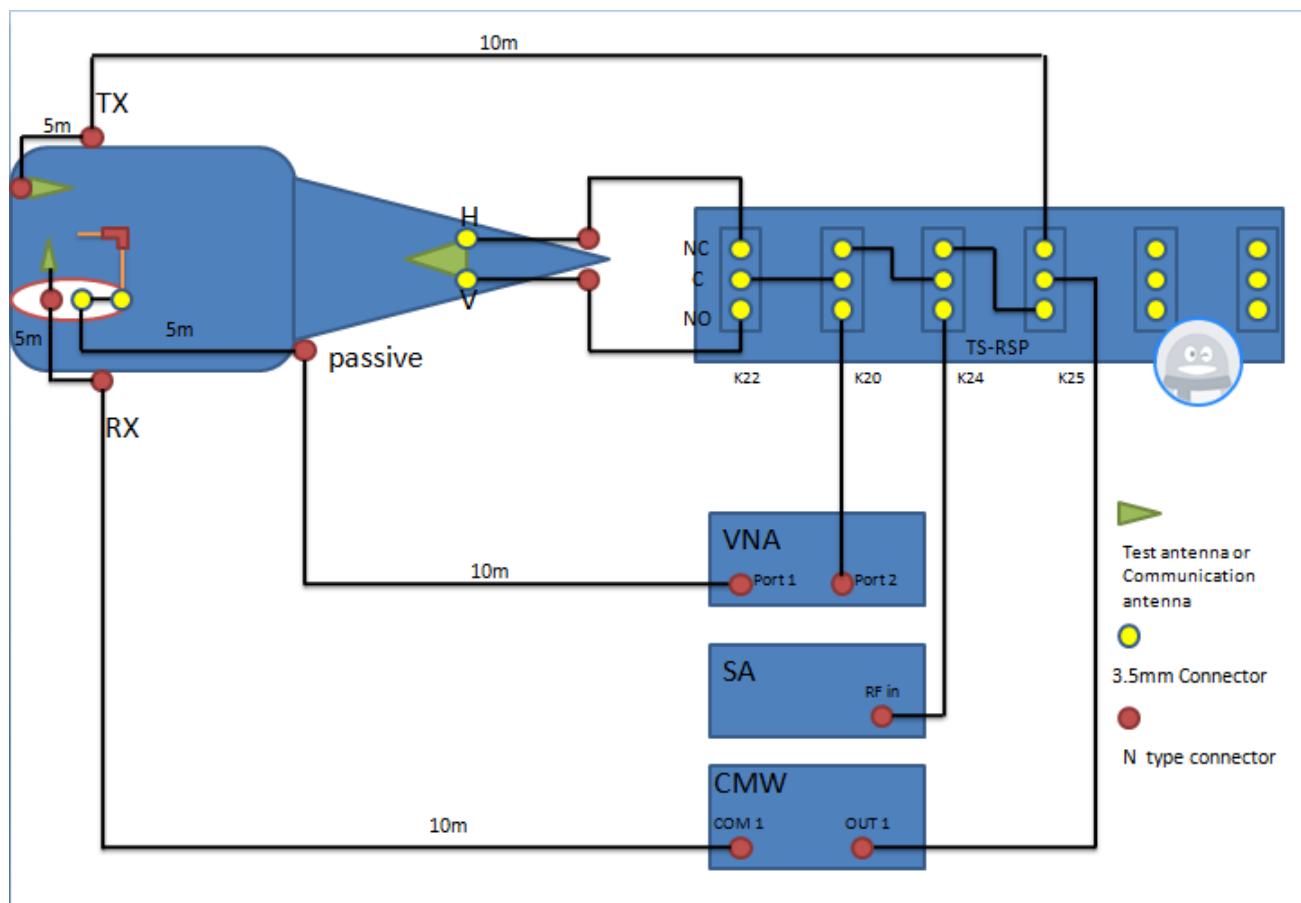
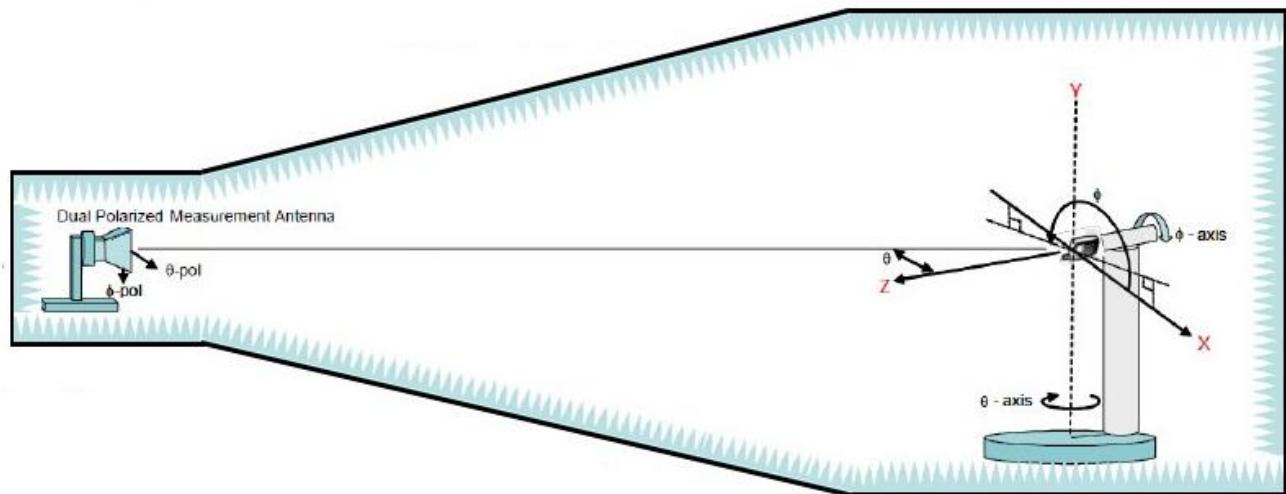
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6. TEST SETUP



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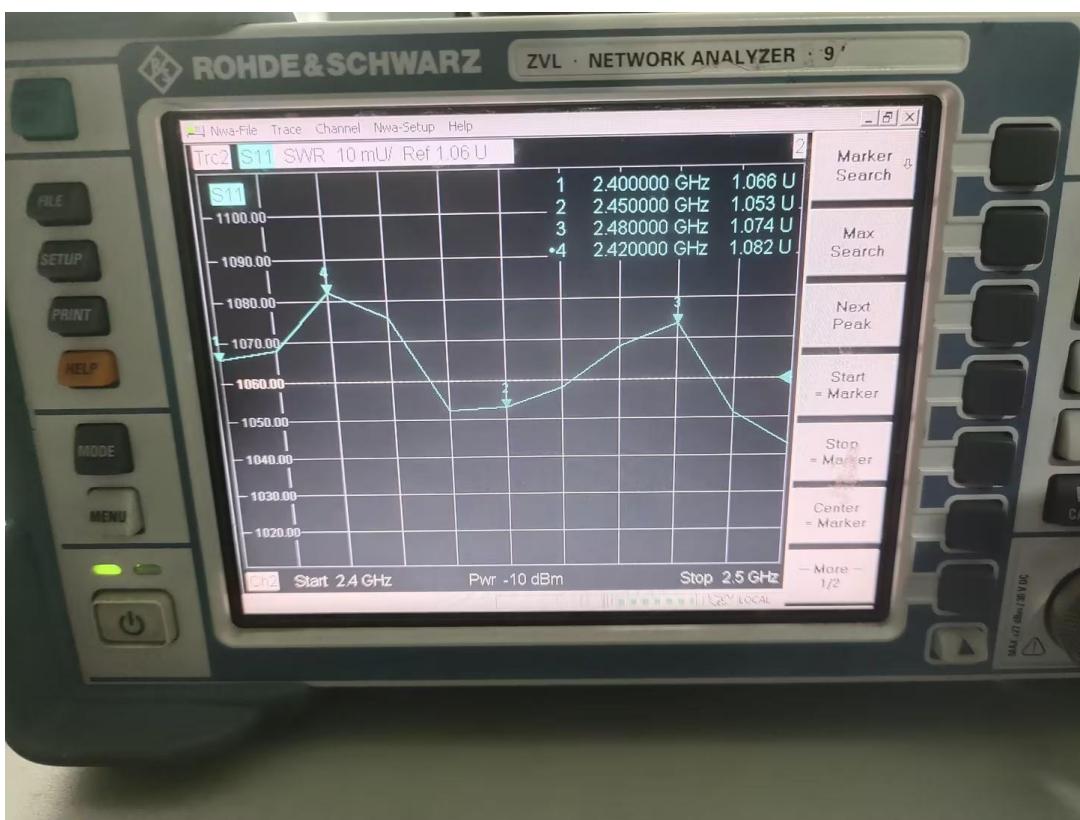
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7. TEST RESULTS

7.1. VSWR

Frequency(MHz)	VSWR
2400	1.066:1
2450	1.053:1
2480	1.074:1
2420	1.082:1



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7.2. GAIN AND EFFICIENCY

Frequency(MHz)	Efficiency(dB)	Efficiency(%)	Gain(dBi)
2400	-9.56081	11.0642	-2.61554
2410	-9.75269	10.586	-2.34622
2420	-9.9596	10.0935	-2.30152
2430	-9.84161	10.3714	-2.26902
2440	-9.55918	11.0683	-2.28617
2450	-9.45242	11.3438	-2.41158
2460	-9.51869	11.1723	-2.50312
2470	-9.84927	10.3532	-2.73207
2480	-9.91463	10.1985	-2.52909
2490	-10.09117	9.791	-2.4884
2500	-10.1264	9.71325	-2.52195

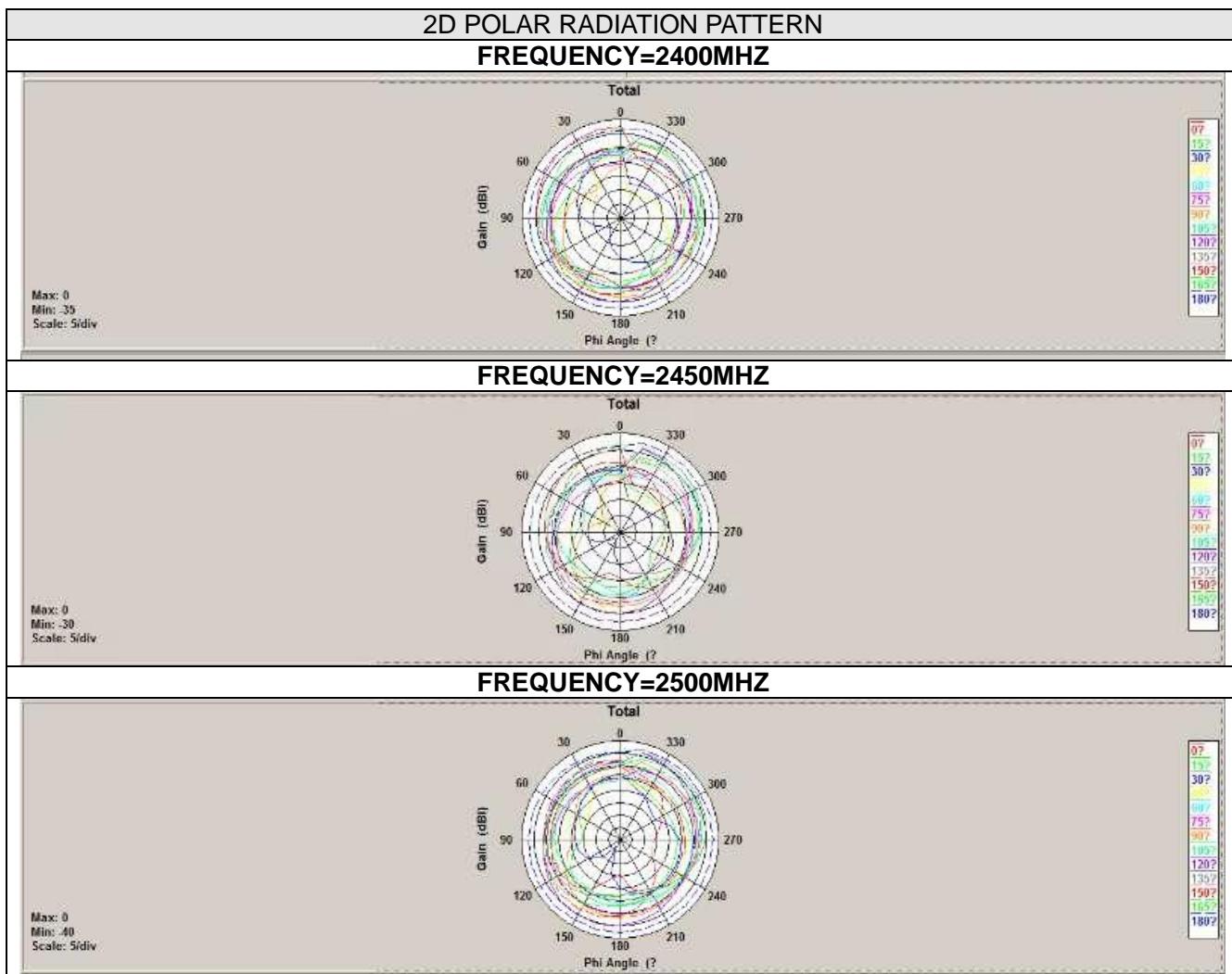
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7.3. RADIATION PATTERN

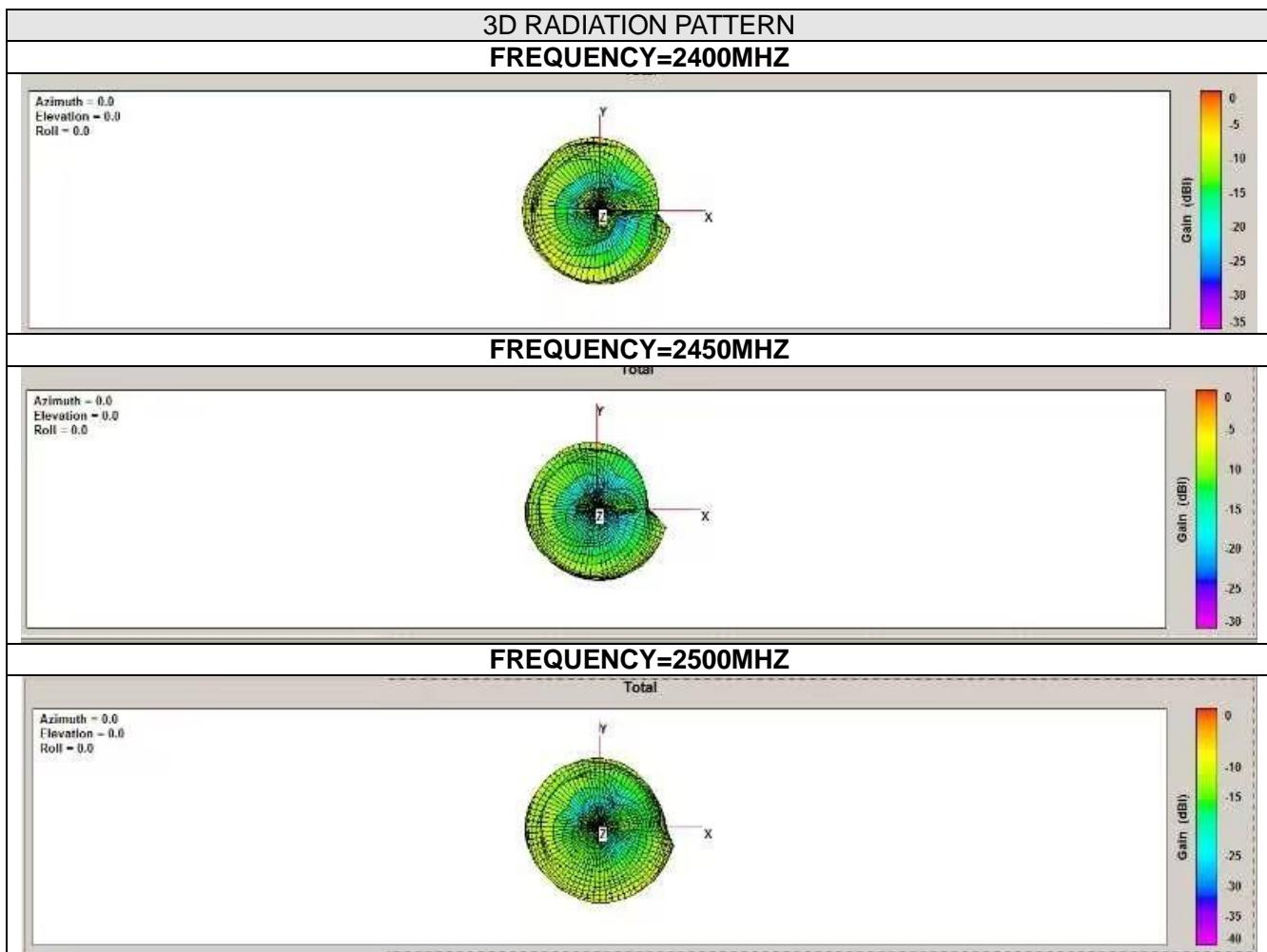


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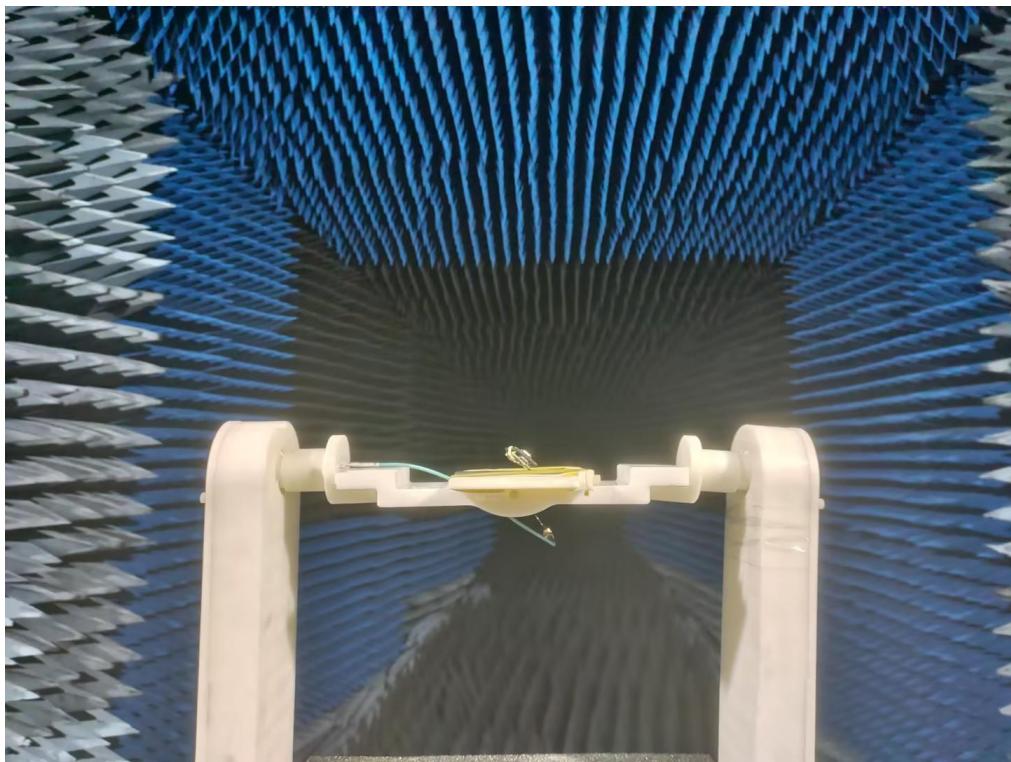


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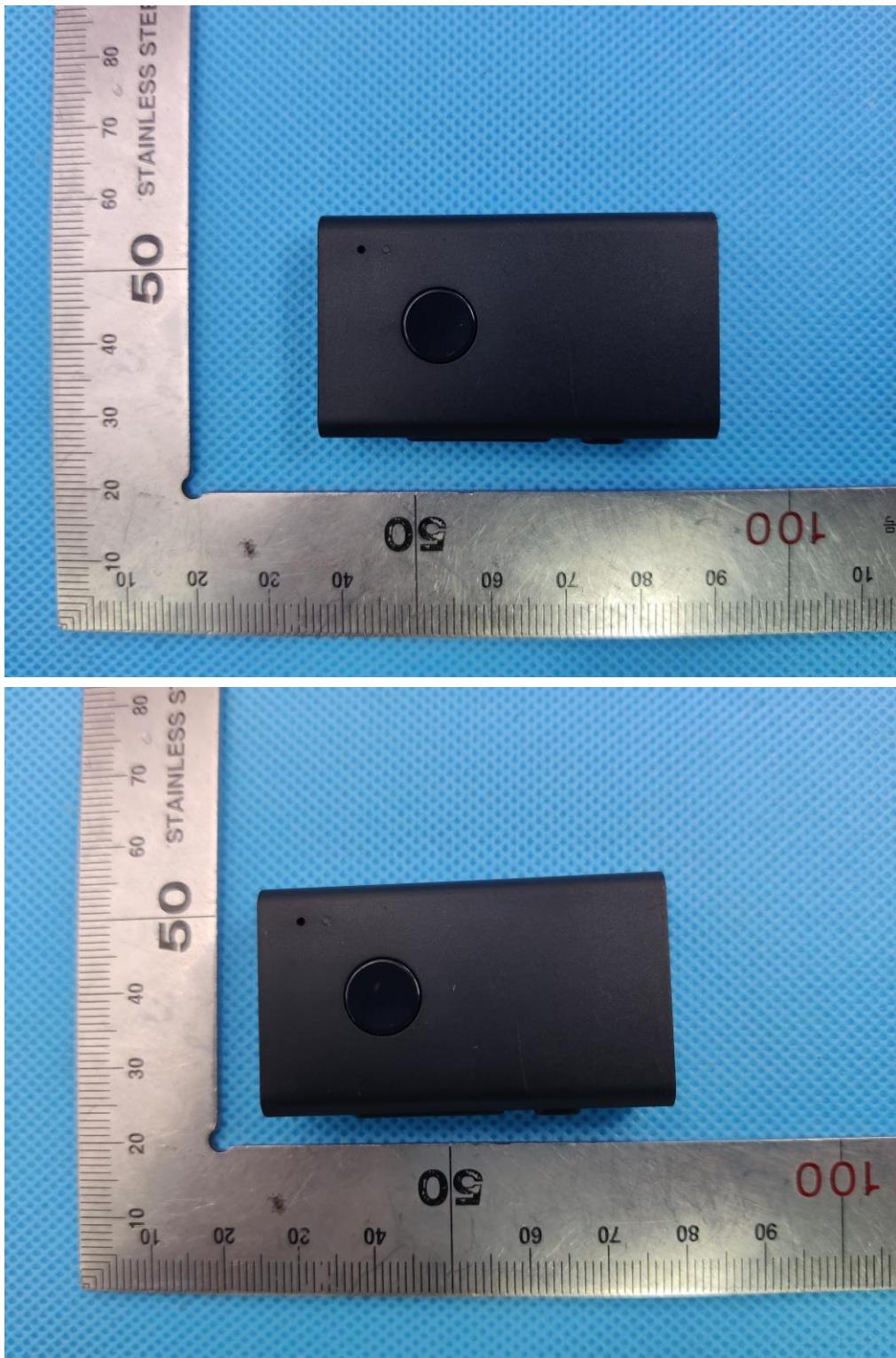
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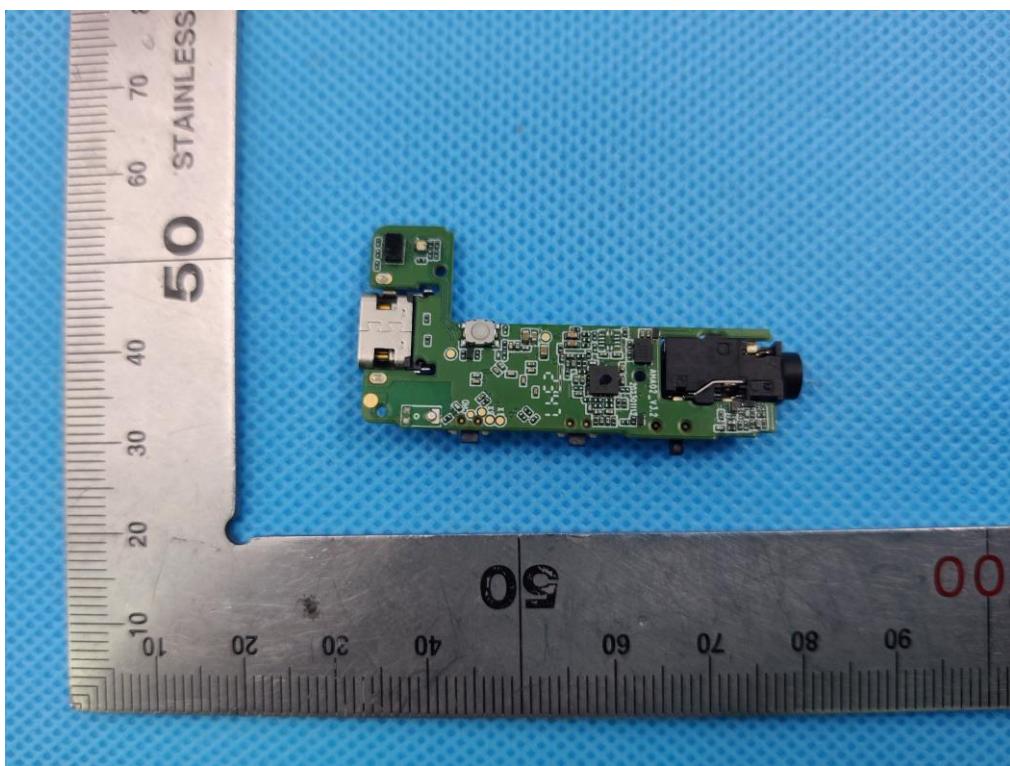
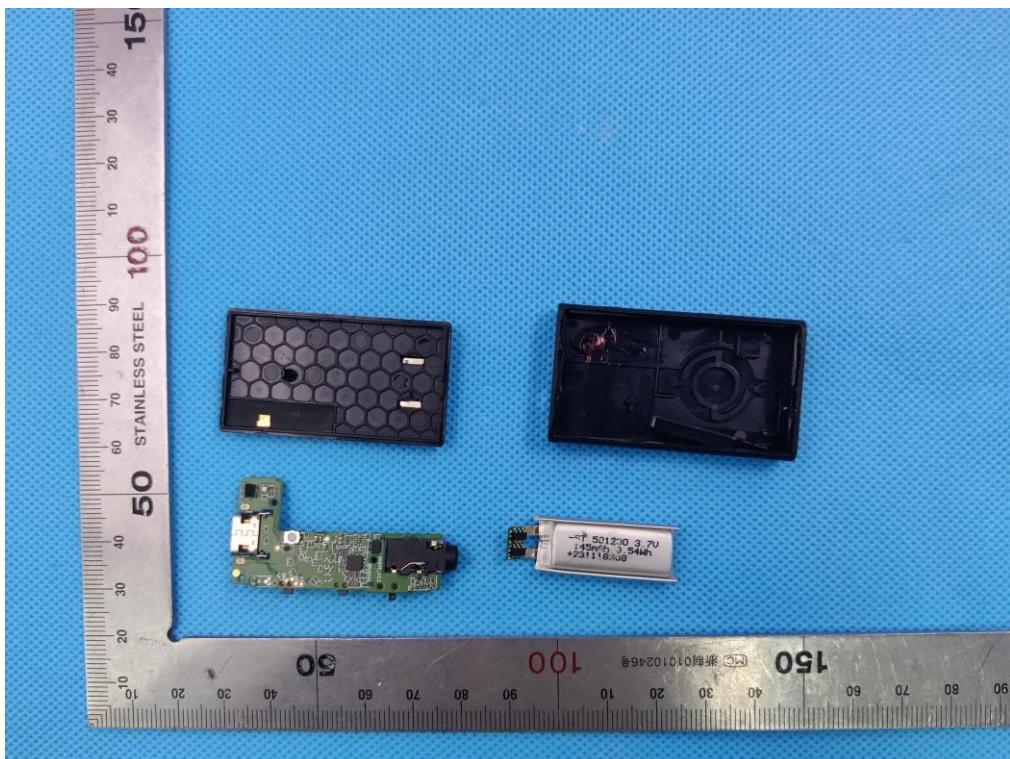
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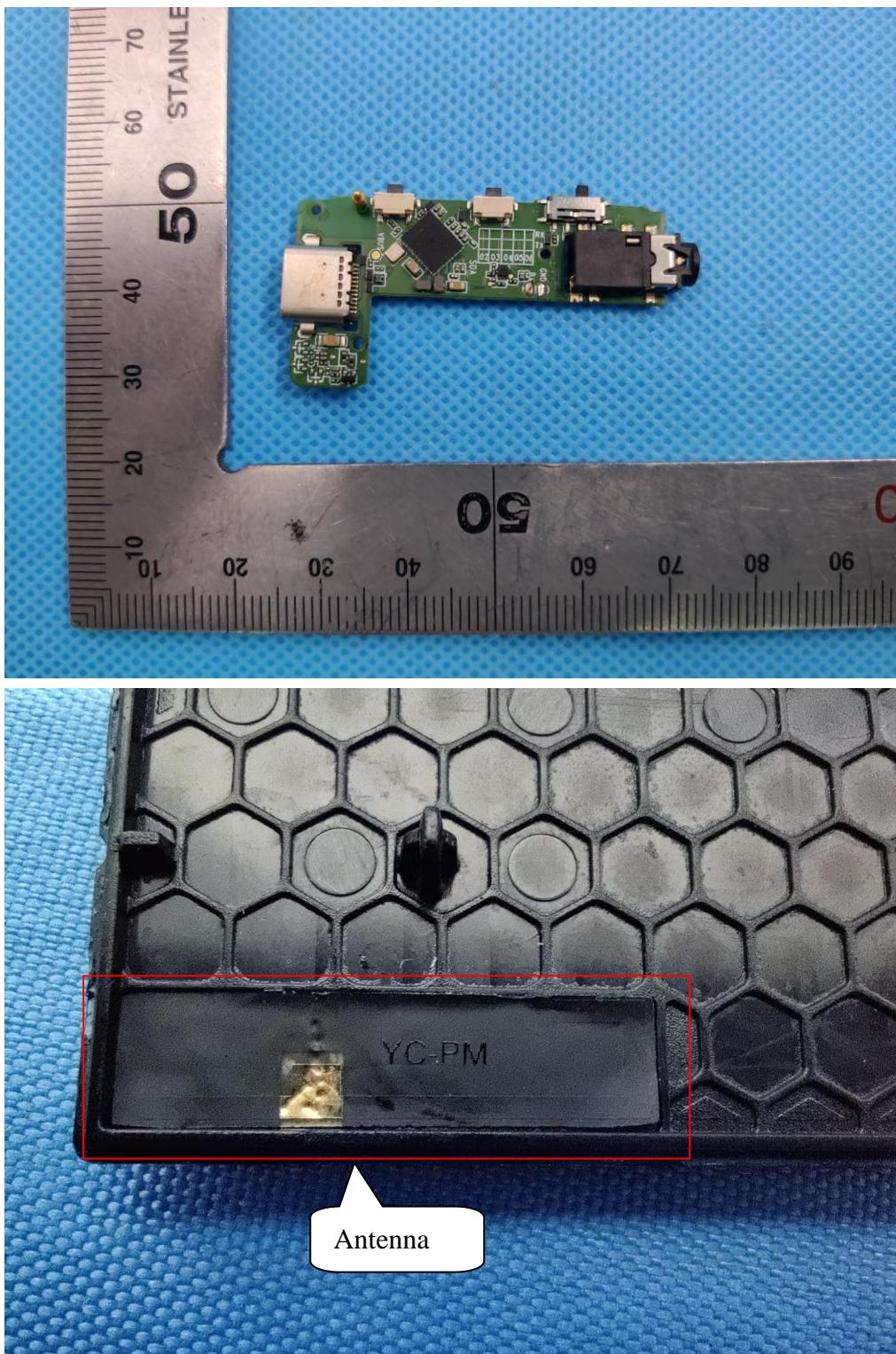


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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the 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.

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