EMC Test Report

Test Standards:	EN IEC 61000-6-3:2026 EN IEC 61000-6-1:2019
Product Description:	Alkaline Battery AAA LR03
Tested Model:	LR03
Adding Model(s):	N/A
Report No.:	EBSZ101026138E
Tested Date:	2026-10-12 to 2026-10-16
Issued Date:	2026-10-19
Tested By:	Aurora Huang
Approved By:	Aaron Lou

Guangdong Eurber Testing Co., Ltd.
Room 401/402, Building A, Tangxi Zhigu, No.21, Xijing Road,
Gushu, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangdong Eurber Testing Co., Ltd., the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026.10.19	Valid	Original Report

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1. GENERAL INFORMATION

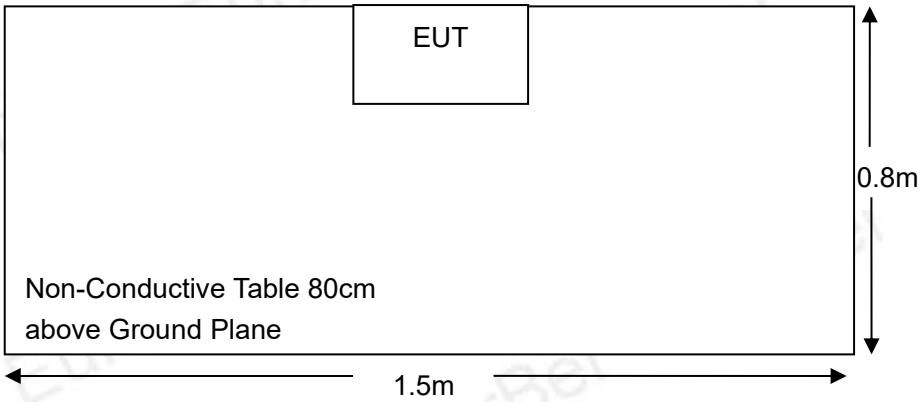
1.1 Product Description for Equipment Under Test (EUT)

Client Information	
Applicant:	Qingyuan Wilton Industrial Co.,Ltd
Address of applicant:	Xingren Street, Shijiao Town, Qingcheng District, Qingyuan City, Guangdong Province, China.
Manufacturer:	Qingyuan Wilton Industrial Co.,Ltd
Address of manufacturer:	Xingren Street, Shijiao Town, Qingcheng District, Qingyuan City, Guangdong Province, China.

General Description of EUT	
Product Name:	Alkaline Battery AAA LR03
Trade Name:	N/A
Model No.:	LR03
Adding Model(s):	N/A
Difference description	N/A
Test Voltage:	DC 1.5V, 0.03A, 0.045Wh
Rated Voltage:	DC 1.5V, 0.03A, 0.045Wh

1.2 EUT Setup and Operation Mode

Block Configuration Diagram for Conducted Emissions



Test Mode List		
Test Mode	Description	Remark
1	Working	For RE/ESD/RS test

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
N/A	N/A	N/A	N/A

1.3 Measurement Uncertainty

Measurement uncertainty			
Parameter	Frequency	Polarity	Measurement uncertainty
Conducted Emission	150kHz~30MHz	----	2.64dB
Radiated Emission	30MHz-200MHz	Horizontal	3.77dB
Radiated Emission	30MHz-200MHz	Vertical	3.95dB
Radiated Emission	200MHz-1000MHz	Horizontal	4.27dB
Radiated Emission	200MHz-1000MHz	Vertical	5.45dB

1.4 Test Facility

Site	Guangdong Eurber Testing Co., Ltd.
Location	Room 401/402, Building A, Tangxi Zhigu, No.21, Xijing Road, Gushu, Xixiang Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Telephone:	0755-23284856
Fax:	0755-23284856

1.5 Test Equipment List and Details

Test Equipment for Conducted Emission					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
LISN	R&S	ENV216	102125	2026/6/10	2027/6/09
LISN	R&S	ENV432	101327	2026/6/10	2027/6/09
EMI Test Receiver	R&S	ESR3	102143	2026/6/10	2027/6/09
EMI Test Software	Audix	E3	N/A	N/A	N/A
Test Equipment for Radiated Emission					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
EMI Test Receiver	R&S	ESR-3	102144	2026/6/10	2027/6/09
Amplifier	Sonoma	310	363917	2026/6/10	2027/6/09
Broadband Antenna	Schwarz beck	VULB9168	9168-757	2026/6/10	2027/6/09
EMI Test Software	Audix	E3	N/A	N/A	N/A
Test Equipment for ESD					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
ESD Generator	Teseq	NSG 437	1121	2026/6/10	2027/6/09
Test Equipment for EFT/SURGE/DIPS					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
Surge Generator	Teseq	NSG 3060-MF	4040	2026/6/10	2027/6/09
CDN	Teseq	CDN 3061-S16	3003	2026/6/10	2027/6/09
EFT/DIPS Generator	Teseq	NSG 3040-MF	6033	2026/6/10	2027/6/09
Transformer	Teseq	INA6501	1002	2026/6/10	2027/6/09
Test Equipment for CS					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
CS Generator	Teseq	NSG 4070B-80	45341	2026/6/10	2027/6/09
6dB Attenuator	Teseq	ATN 6075	32154	2026/6/10	2027/6/09
CDN	Teseq	CDN M016	45065	2026/6/10	2027/6/09
Test Equipment for RS					
Description	**Manufacturer**	**Model**	**Serial Number**	**Cal Date**	**Due Date**
Signal generator	R&S	SMB100A	113825	2026/6/10	2027/6/09
Power Meter	R&S	NRP2	105581	2026/6/10	2027/6/09
Power Sensor	R&S	NRP-Z91	103778	2026/6/10	2027/6/09
Power Sensor	R&S	NRP-Z91	103779	2026/6/10	2027/6/09
Power Amplifier	R&S	BBA150	102377	2026/6/10	2027/6/09
Antenna	R&S	HL046E	100230	N/A	N/A
RS Test Software	Fala	EZ-RS	N/A	N/A	N/A

1.6 Performance Criteria for EMS

According Clause 6 of EN IEC 61000-6-1,
A functional description and a definition of performance criteria, during or as a consequence of the EMC testing, shall be provided by the manufacturer and noted in the test report, based on the following criteria.

Performance criterion A: The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion B: The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion C: Temporary loss of function is allowed, provided the function is self- recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use. The following Table 14 serves as a guide to formulate the permissible degradation of the equipment under test (EUT) caused by electromagnetic stress. Not all functions of the apparatus need to be tested. The selection, the specification of functions, and the permissible degradation is left to the responsibility of the manufacturer.

2. SUMMARY OF TEST RESULTS

EN IEC 61000-6-3:2026 Emissions		
Test Standards	**Description of Test Item**	**Result**
EN 61000-6-3	Conducted Emissions	N/A
EN 61000-6-3	Radiated Emissions	Compliance
EN 61000-3-2	Harmonic Currents	N/A
EN 61000-3-3	Voltage Fluctuations and Flicker	N/A

EN IEC 61000-6-1:2019 Immunity		
Test Standards	**Description of Test Item**	**Result**
IEC 61000-4-2	Electrostatic Discharge	Compliance
IEC 61000-4-3	Radio Frequency Electromagnetic Field	Compliance
IEC 61000-4-4	Fast Transients	N/A
IEC 61000-4-5	Surges	N/A
IEC 61000-4-6	Radio-Frequency Common Mode	N/A
IEC 61000-4-8	Power Frequency Magnetic Field	N/A
IEC 61000-4-11	Voltage Dips and Interruptions	N/A

*Note1: N/A means not applicable.

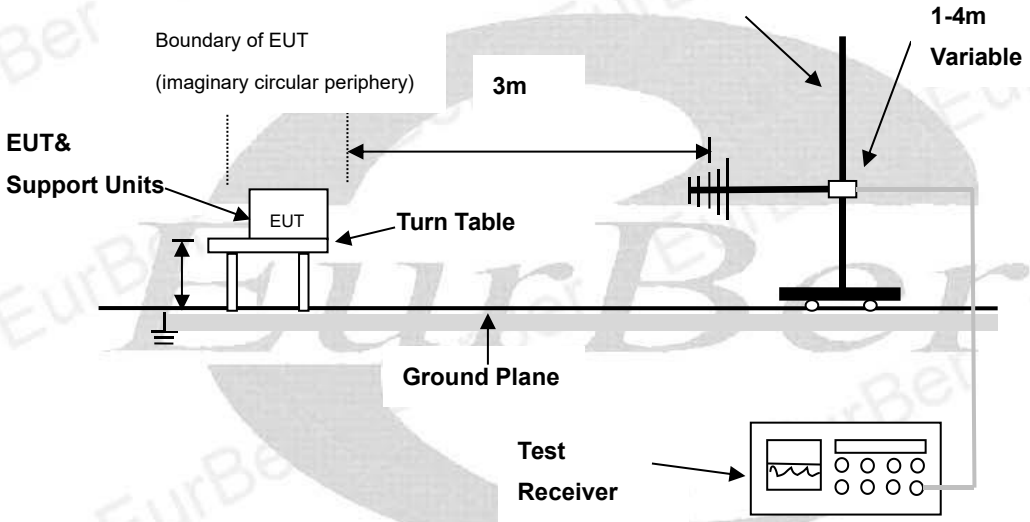
3. Radiated Disturbances

3.1. Radiated Disturbances Limit

Radiated disturbance limits

Frequency range (MHz)	Distance (Meters)	Field Strength Quasi-Peak(dBμV/m)
30 ~ 230	3	40
230 ~ 1000	3	47
Note: (1) The smaller limit shall apply at the combination point between two frequency bands. (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.		

3.2.Block Diagram of Test Setup



3.3 Test Procedure

(1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual.

(2) Support equipment, if needed, was placed as per EN IEC 61000-6.All I/O cables were positioned to simulate typical actual usage as per EN IEC 61000-6.

(3) The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

(4) Recorded at least the six highest emissions.

3.4 Result Level & Over Limit Calculation

The Result Level is calculated by Reading Level adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Result Level = Reading Level + Antenna Factor + Cable Factor - Amplifier Gain

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB means the emission is 6dB below the maximum limit for Class B device. The equation for margin calculation is as follows:

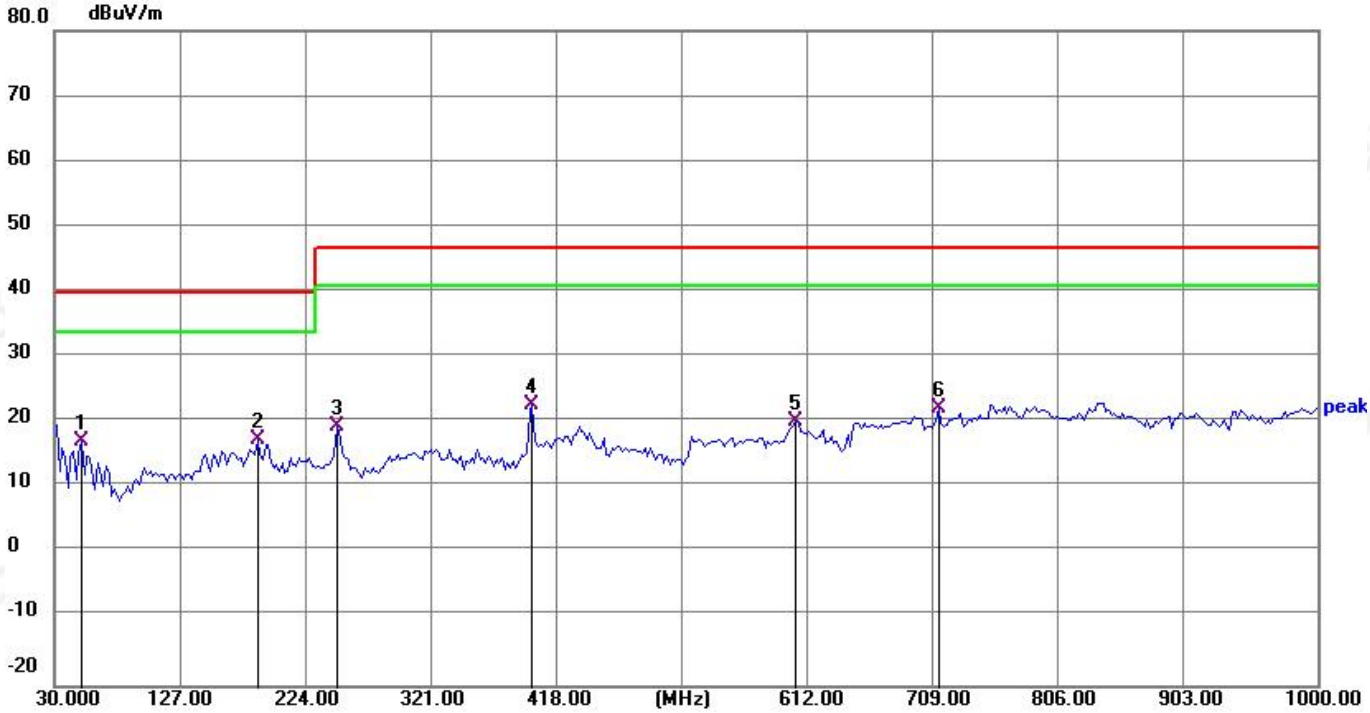
Over Limit = Result Level –Limit

3.5 Environmental Conditions

Temperature:	26.3° C
Relative Humidity:	54.2%RH
Atmospheric Pressure:	102.5kPa
Test Date:	2026.10.16
Tested By:	Aurora Huang

3.6 Test Data and Result

Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	51.0869	33.83	-16.34	17.49	40.00	22.51	QP
2	186.0434	35.93	-18.36	17.57	40.00	22.43	QP
3	247.1956	37.32	-17.65	19.67	47.00	27.33	QP
4	396.9130	36.76	-13.79	22.97	47.00	24.03	QP
5	599.3478	29.76	-9.29	20.47	47.00	26.53	QP
6	709.0000	31.87	-9.43	22.44	47.00	24.56	QP

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	42.28	-15.15	27.13	40.00	12.87	QP
2	70.0652	40.58	-18.31	22.27	40.00	17.73	QP
3	105.9129	44.42	-19.75	24.67	40.00	15.33	QP
4	154.4130	34.19	-14.37	19.82	40.00	20.18	QP
5	209.2391	38.82	-18.18	20.64	40.00	19.36	QP
6	418.0000	34.08	-14.59	19.49	47.00	27.51	QP

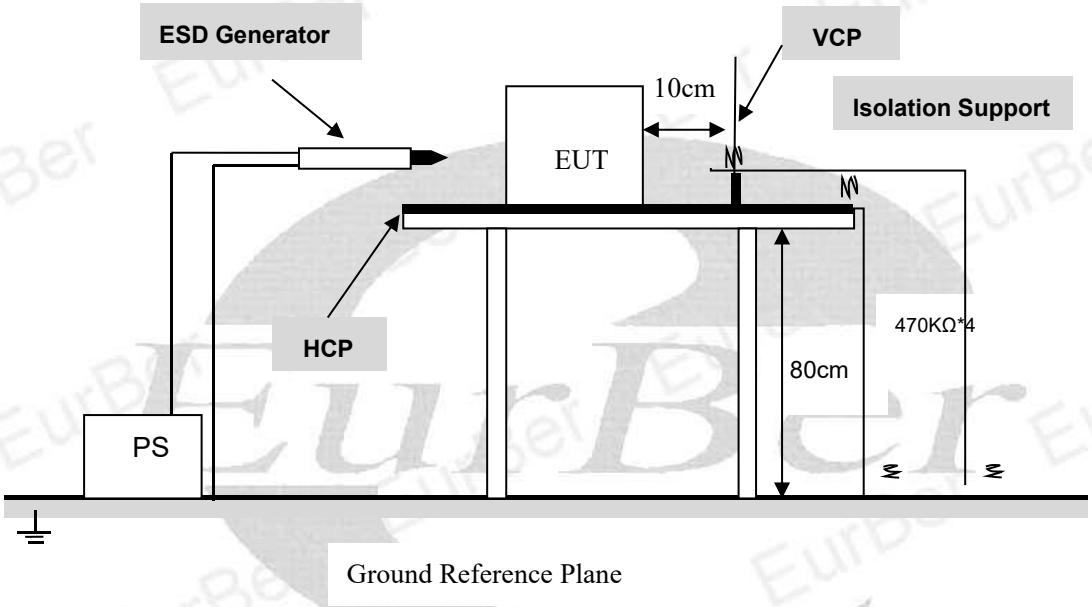
Note: 1. Result Level = Read Level +Antenna Factor + Cable loss-PRM Factor

4. Electrostatic Discharge (ESD)

4.1 ESD Immunity Requirements

Environmental Phenomenon	Port	Test Specification	Basic Standard	Performance criterion
Electrostatic discharge	Enclosure port	4kV(Contact Discharge)	IEC 61000-4-2	B
		8kV(Air Discharge)	IEC 61000-4-2	B

4.2 Block Diagram of Test Setup



4.3 Test Procedure

Air Discharges:

This test is done on a non-conductive surface. The round Discharges tip of the Discharges electrode shall be approached as fast as possible to touch the EUT. After each Discharge, the Discharges electrode shall be removed from the EUT. The generator is then re-triggered for a new single Discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air Discharges completed.

Contact Discharges:

All the procedure shall be same as Section 8.3.1 of IEC 61000-4-2, except that the tip of the Discharges electrode shall touch the EUT before the Discharges switch is operated.

Indirect Discharges for HCP

At least 20 single Discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The Discharges electrode positions vertically at a distance of 0.1 m from the EUT and with the Discharges electrode touching the coupling plane.

Indirect Discharges for VCP

At least 20 single Discharges shall be applied to the center of one vertical edge of the coupling plane.

The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated

4.4 Environmental Conditions

Temperature:	20° C
Relative Humidity:	52%RH
Atmospheric Pressure:	101.8kPa
Test Date:	2026.10.16
Tested By:	Aurora Huang

4.5 Test Data and Result

IEC 61000-4-2 Test Points	Test Levels (kV)							
	-2	+2	-4	+4	-8	+8	-15	+15
Air Discharge								
Surface	A	A	A	A	A	A	/	/

IEC 61000-4-2 Test Points	Test Levels (kV)							
	-2	+2	-4	+4	-6	+6	-8	+8
Contact Discharge								
/	A	A	A	A	/	/	/	/

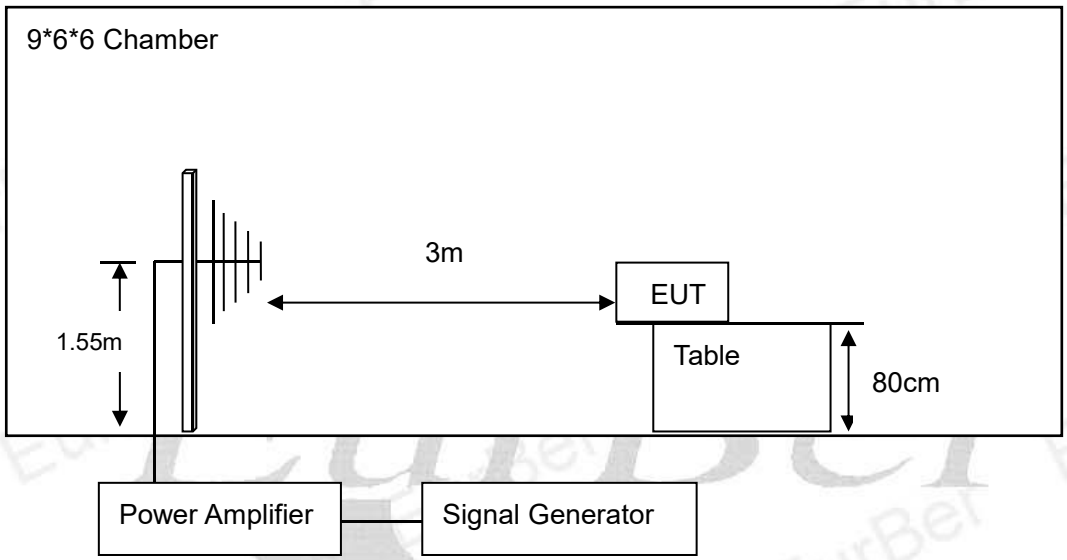
IEC 61000-4-2 Test Points	Test Levels (kV)							
	Indirect Contact Discharge (HCP)				Indirect Contact Discharge (VCP)			
	-2	+2	-4	+4	-2	+2	-4	+4
Front Side	A	A	A	A	A	A	A	A
Back Side	A	A	A	A	A	A	A	A
Left Side	A	A	A	A	A	A	A	A
Right Side	A	A	A	A	A	A	A	A

5. Radio Frequency Electromagnetic Fields

5.1 RS Immunity Requirements

Environmental Phenomenon	Port	Test Specification	Basic Standard	Performanc e criterion
Radio-frequency electromagnetic field	Enclosure port	80-1000MHz 3V/m(unmodulated, r.m.s) 80% AM(1kHz)	IEC 61000-4-3	A

5.2 Block Diagram of Test Setup



5.3 Test Procedure

Test is conducting under the description of IEC61000-4-3.

(1)The EUT was switched on and allowed to warm up to its normal operating condition.

(2)The EUT was exercised and monitored in the manner specified by the customer.

(3)All test instruments were PC controlled, via their IEEE 488.2 bus interfaces, and the test conducted in the following manner:

The testing frequencies were swept over the required frequency range, with a step frequency equal to 1% of fundamental. The sweep rate was 1.0 x 10^{-3} decades/s.For each frequency tested, the signal generator output level was adjusted automatically until the unmodulated field strength registered by the field monitor reached the desired level. This level was held constant for the specified dwell time.

(4)The EUT was continuously monitored during the test in accordance with the Pass / Fail criteria declared by the customer.

(5)The test was done in both horizontal and vertical antenna polarizations, and for all necessary sides of the EUT.

5.4 Environmental Conditions

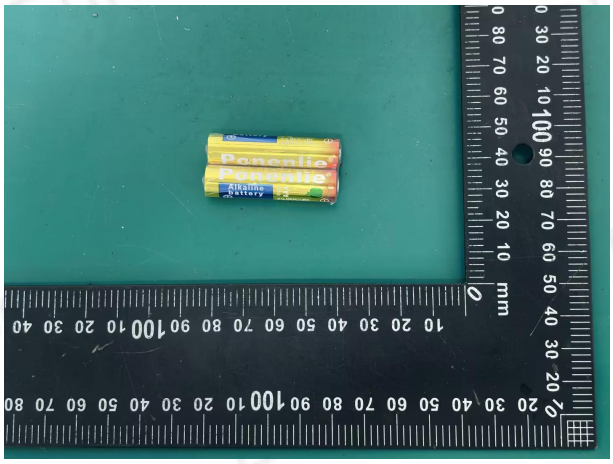
Temperature:	20° C
Relative Humidity:	52%RH
Atmospheric Pressure:	101.8kPa
Test Date:	2026.10.16
Tested By:	Aurora Huang

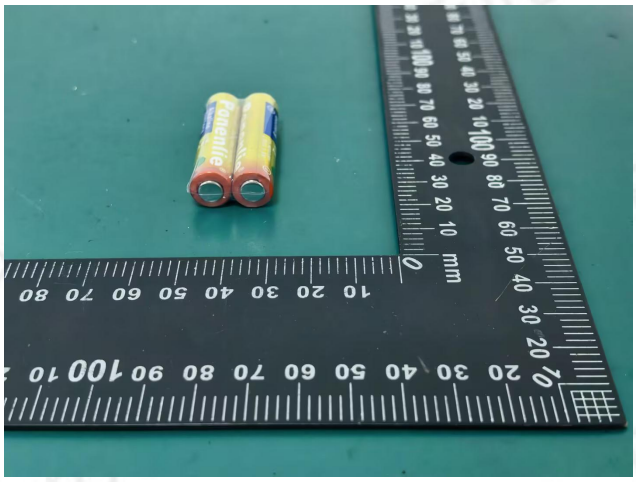
5.5 Test Data and Result

Field Strength: 3V/m
Frequency step: 1% of fundamental
Dwell time: 1 second
Modulation: AM by 1kHz sine wave with 80% modulation depth

Frequency Range(MHz)	Field (V/m)	Front		Rear		Left Side		Right Side	
		VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	3	A	A	A	A	A	A	A	A

EXHIBIT B – PHOTOGRAPHS OF EUT





******* END OF REPORT *******