

TEST REPORT

Applicant Name: AKUVOX (XIAMEN) NETWORKS CO., LTD.
Address: 10/F, No.56 Guanri Road, Software Park II, Xiamen 361009, China
Report Number: 2501A12832E-RF-00
FCC ID: 2AHCR-A08K

Test Standard (s)

FCC Part 2.1091

Sample Description

Product Type: Access Control Terminal
Model No.: A08K
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/12/17
Issue Date: 2026/02/12

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Bruce Lin

Bruce Lin
RF Engineer

Approved By:

Jimmy Xiao

Jimmy Xiao
EMC Manager

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501A12832E-RF-00	Original Report	2026/02/12

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	125kHz
Input Voltage	DC 12V from Adapter or DC 48V from PoE
Sample serial number	3ELY-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2, Subpart J Section 2.1091 of the Federal Communications Commission's rules and KDB680106 D01 Wireless Power Transfer v04.

Test Methodology

All tests and measurements indicated in this document were performed in accordance KDB 680106 D01 Wireless Power Transfer v04

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter	Uncertainty
Electric Field	6.36dB
Magnetic Field	1.00dB
Temperature	$\pm 0.4^{\circ}\text{C}$
Humidity	$\pm 2\%$
Supply voltages	DC $\pm 0.4\%$; AC $\pm 1\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

Each test item follows test standards and with no deviation.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a test mode.

EUT Exercise Software

No software used in test.

Local Support Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	To
/	/	/	/

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
SPEAG	Probe	MAGPy-8H3D-E3D	3106	2025/04/29	2026/04/28
SPEAG	Data Acquisition System	MAPGPY-DAS	3089	2025/04/29	2026/04/28

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE)

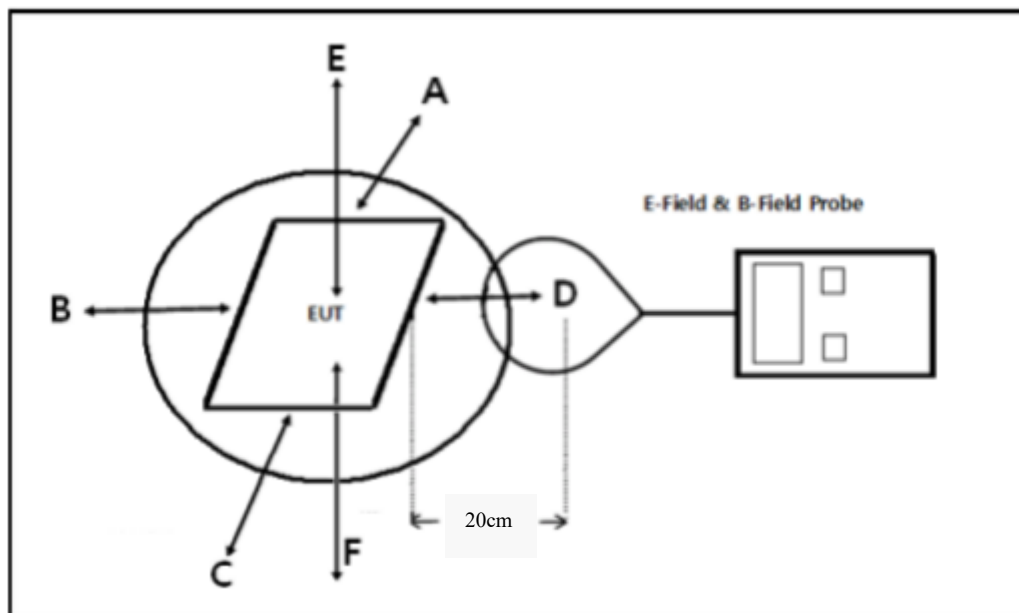
(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According with 680106 D01 Wireless Power Transfer v04 clause 3.2

Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

Block Diagram of Test Setup



Test Procedures

- 1) Perform H-field and E-field measurements for each all sides of the EUT at 20cm, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna).
- 2) The highest emission level was recorded and compared with limit.
- 3) The EUT was measured according to 680106 D01 Wireless Power Transfer v04.

Test Data

Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	41 %
ATM Pressure:	100.9 kPa

The testing was performed by Ethan Bu on 2026-01-21.

Test mode: Transmitting

H-Field Strength

Test Frequency (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Limit (A/m)
125	0.01	0.00793	0.01	0.00553	0.00793	1.63

Note: Test with 20cm distance from the center of the probe(s) to the edge of the device.

E-Field Strength

Test Frequency (kHz)	Position A (V/m)	Position B (A/m)	Position C (A/m)	Position D (V/m)	Position E (V/m)	Limit (V/m)
125	0.96	0.98	1.30	1.00	0.98	614

Note: Test with 20cm distance from the center of the probe(s) to the edge of the device.

EUT PHOTOGRAPHS

Please refer to the attachment 2507X04884E-RF-EXP_EUT EXTERNAL PHOTOGRAPHS and 2507X04884E-RF-INP_EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501A12832E-RF-TSP Test Setup photo.

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