Report No.: NTC2009409F-1 FCC ID: OMOCA77932



RF EXPOSURE REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant / Manufacturer: La Crosse Technology Ltd.

Address : 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States

Factory : La Crosse Technology Ltd.

Address : 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States

E.U.T. : ALARM CLOCK

Brand Name : La Crosse

Model No. CA77932, CA77932-INT, CA77932vX, CA77932vX, CA77932-XX,

CA77932-XXX, CA77932-XX-XXX

FCC ID : OMOCA77932

Measurement Standard: FCC PART 15 Subpart C

Date of Receiver : September 24, 2020

Date of Test : September 24, 2020 to October 19, 2020

Date of Report : October 19, 2020

In the configuration tested, the EUT complied with the standards specified above.

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product name : ALARM CLOCK

Main model : CA77932

Additional model : CA77932-INT, CA77932vX, CA77932vX-XXX,

CA77932-XX, CA77932-XXX, CA77932-XX-XXX ("X" can be 0~9 or A~Z, the difference for different version are the product shell color, software, and packaging upgrade version number, when upgrade a version the number progressed to next number)

Description of Model Difference

1. These models have the same circuitry, electrical mechanical, PCB layout and physical construction. The difference is model number, shell color and

software due to trading purpose.

2. The software version does not involve changes to RF

information.

Rating : DC 5V come from Adapter

Adapter : Manufacturer: Huaxu Electronics factory

M/N: HX13-0502500-AU-001

Input: AC100-240V 50/60Hz 0.5A Max

Output: DC 5.0V 2.5A

Test voltage : AC 120V 60Hz, AC 240V 60Hz

(Only the worst case was record in the report.)

Cable : DC Line: 1.83m, unshielded

Software version : V1.0 Hardware version : V1.0

S/N : 779320001

Note : N/A

Remark : According to the model difference, all tests were

performed on model CA77932.

Frequency Range : 110.5-205KHz Test frequency : 113.75KHz

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **OMOCA77932** filing to comply with FCC Part 15, Subpart C Rule.

1.3 Test Facility and Location

Site Description

EMC Lab : Listed by CNAS, August 13, 2018

The certificate is valid until August 13, 2024

The Laboratory has been assessed and proved to

be in compliance with CNAS/CL01

The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017

The certificate is valid until December 31, 2021 The Laboratory has been assessed and proved to

be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017
The Designation Number is CN1214
Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017

The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.

(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science & Technology Park,

Hongtu Road, Nancheng District, Dongguan City,

Guangdong Province, China

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2. Measurement Uncertainty

Measurement Uncertainty for a Lecel of Confidedce of 95%, U=2xUc(y)

Radiated emission(9KHz~150KHz)	±3.50dB
Radiated emission(150KHz~30MHz)	±3.50dB
Radiated emission(30MHz~1GHz)	±4.60dB

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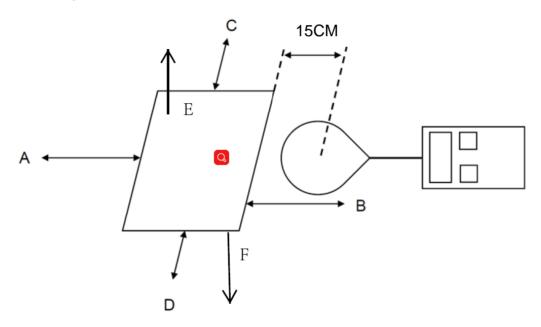
3. Method of measurement

3.1 Applicable standard

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in amnner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

According to 1.1310 and 2.1093 RF exposure is calculated. According to KDB680106 D01V03: RF exposure wireless charging apps v03.

3.2 Test Setup



3.3 Test procedure

- 1. The RF exposure test was performed on 360 degree turn table in anechoic chamber;
- 2.The measurement probe was placed at test distance 15cm which is between the edge of the charger and 20cm between top of the charger and the geometric centre of probe.
- 3. The turn table was rotated 360d degree to search of highest strength.
- 4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A,B,C,D,E) were completed.
- 5. The EUT were measured according to the dictates of KDB 680106D01V03

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3.4 Equipment approval considerations

- 1. The EUT dose comply with item 5.2 of KDB 680106D01V03
- a, Power transfer frequency is less than 1MHz. YES; the device operated in the frequency range from 110.5-205KHz.
- b, Output power from each primary coil is less than or equal to 15 watts YES; the maximum output power of the primary coil is 5W<15W.
- c, The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling only between individual pair of coils.

 YES: the transfer system includes only single primary and secondary coils.
- d, Client device is placed directly in contact with the transmitter. YES; Client device is placed directly in contact with the transmitter.
- e, Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
 YES:
- f, The aggregate H-field strengths at 15cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

YES; The EUT field strength levels are less than 50% x MPE limits.

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3.5 E and H field strength Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)				
, ,	(A) Limits for Occupational/Controlled Exposures							
0.3-3.0	614	1.63	*(100)	6				
3.0-30	1842/f	4.89/f	*(900/f2)	6				
30-300	61.4	0.163	1.0	6				
300-1500	/	/	f/300	6				
1500-100,000	/	/	5	6				
(B)	(B) Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f2)	30				
30-300	27.5	0.073	0.2	30				
300-1500	/	/	f/1500	30				
1500-100,00	/	/	1.0	30				

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Test Result

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Electric Field Emissions

Operation	Test	Test Probe Measure Result(V/m)			Limit	50%	
Operation frequency	Position	Distance (cm)	zero charge	intermediate charge	full charge	(V/m)	Limit (V/m)
	Side A	15	3.32	3.55	3.21	614	307
113.75KHz	Side B	15	3.54	3.52	3.29	614	307
	Side C	15	3.51	3.51	3.54	614	307
	Side D	15	3.61	3.58	3.47	614	307
	Side E	20	2.51	2.62	2.66	614	307

Magnetic Field Emissions

Operation	Test	Test Probe Measure Result(A/m)				Limit	50%
frequency		Distance (cm)	zero charge	intermediate charge	full charge	(A/m)	Limit (A/m)
113.75KHz	Side A	15	0.0763	0.0731	0.0754	1.63	0.815
	Side B	15	0.0754	0.0744	0.0762	1.63	0.815
	Side C	15	0.0763	0.0766	0.0775	1.63	0.815
	Side D	15	0.0726	0.0755	0.0721	1.63	0.815
	Side E	20	0.0459	0.0463	0.0532	1.63	0.815

^{*=}Plane-wave equivalent power density

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3.6 Test equipment list

Description	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due Date
Magnetic field probe 100cm ²	Narda	ETL Probe 1Hz-400KHz	M-1587	June 29,2020	June 28, 2021
Exposure lever tester	Narda	ETL- 400	O-0167	June 29,2020	June 28, 2021

3.7 Test Photo

