

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. : PROJECTION ALARM CLOCK

Brand Name : La Crosse

Model No. : C75709, 616-1413

(For additional models & model difference refer to section 1.1)

FCC ID : OMOC75709

Measurement Standard : FCC PART 15 Subpart C

Date of Receiver : June 07, 2021

Date of Test : June 08, 2021 to June 17, 2021

Date of Report : June 30, 2021

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.

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product Name	: PROJECTION ALARM CLOCK
Main Model	: C75709
Additional Model	: 616-1413, C75709vx, C75709vx-xxx, C75709-xx, C75709-xxx, C75709-xx-xxx, 616-xxxxx, 616-xxxx-xxx, 616-xxxxx-xxx, 616-xxxxxx-xxx, 616-xxxxxxx-xxx Remark: "x" can be 0~9 or A~Z, the difference for different versions are the product shell color, and packaging upgrade version number. When upgrade a version the number progressed to the next number.
Model Difference	: These models have the same circuit schematic, construction, PCB Layout and critical components. The differences are model number, shell color and packing upgrade version number.
Power Supply Adapter	: DC 9V come from Adapter M/N: HX25-0902500-AU Input: AC 100-240V 50/60Hz 0.8A Output: DC 9.0V 2.5A
Test voltage	: AC 120V 60Hz, AC 240V 50Hz (Only the worst case was record in the report.)
Cable	: DC Line for Adapter : 1.92m unshielded
Software Version	: XCT8040_727D
Hardware Version	: HQ8040(MA) R1
Note	: N/A
Remark	: According to the model difference, all tests were performed on model C75709.
Frequency Range	: 110.5-205KHz
Test frequency	: 146.28KHz

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **OMOC75709** 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,
Zhouxi Longxi Road, Nancheng District, Dongguan
City, Guangdong Province, China

2. Measurement Uncertainty

Measurement Uncertainty for a Level of Confidence of 95%, $U=2xUc(y)$

Radiated emission(9KHz~150KHz)	$\pm 3.50\text{dB}$
Radiated emission(150KHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission(30MHz~1GHz)	$\pm 4.60\text{dB}$

3. Method of measurement

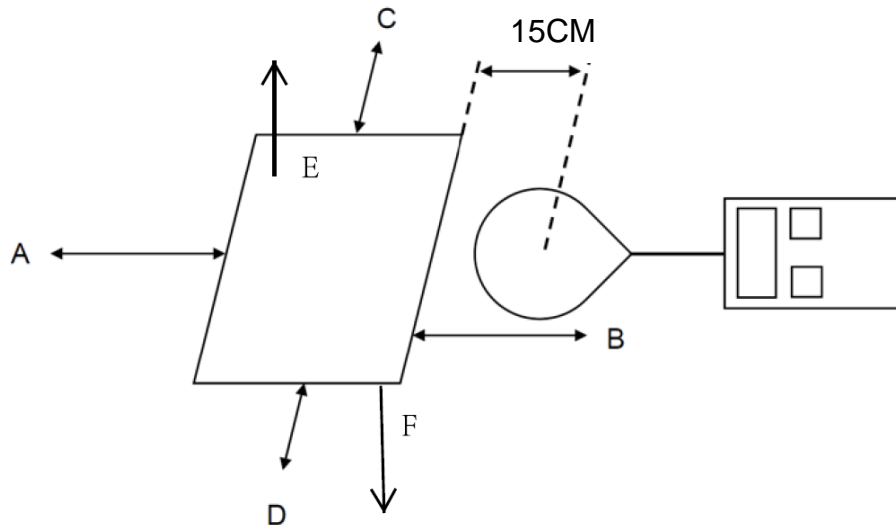
3.1 Applicable standard

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in amanner 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

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 10W<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.

3.5 E and H field strength Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(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/f ²)	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
 *=Plane-wave equivalent power density
 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 frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
146.28KHz	Side A	15	3.23	3.56	3.20	614	307
	Side B	15	3.56	3.50	3.31	614	307
	Side C	15	3.57	3.51	3.53	614	307
	Side D	15	3.60	3.56	3.49	614	307
	Side E	20	2.51	2.64	2.67	614	307

Magnetic Field Emissions

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
146.28KHz	Side A	15	0.0736	0.0715	0.0740	1.63	0.815
	Side B	15	0.0745	0.0740	0.0734	1.63	0.815
	Side C	15	0.0736	0.0763	0.0759	1.63	0.815
	Side D	15	0.0762	0.0751	0.0715	1.63	0.815
	Side E	20	0.0495	0.0431	0.0526	1.63	0.815

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

