



Test Report No.: FS190701N023

# RF EXPOSURE REPORT

|           |                                                                |
|-----------|----------------------------------------------------------------|
| Applicant | La Crosse Technology Ltd.                                      |
| Address   | 2809 Losey Blvd. South La Crosse Wisconsin 54601 United States |

|                                      |                                                                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer or Supplier             | La Crosse Technology Ltd.                                                                                                                      |
| Address                              | 2809 Losey Blvd. South La Crosse Wisconsin 54601 United States                                                                                 |
| Product                              | PROJECTION ALARM CLOCK                                                                                                                         |
| Brand Name                           | LA CROSSE                                                                                                                                      |
| Model                                | C80765                                                                                                                                         |
| Additional Models & Model Difference | C80765-INT, 616-1612, C80765vX, 616-1612-INT, C80765vX-INT, 616-1612vX, C80765-XX, 616-1612-XX-INT, 616-1612vX-INT, C80765-XX-INT, 616-1612-XX |
| Date of tests                        | Jul. 01, 2019 ~ Jul. 17, 2019                                                                                                                  |

☒ 47 CFR PART 1, Subpart I, Section 1.1310

☒ KDB 680106 D01

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

|                                                                                     |                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Tested by Breeze Jiang<br>Project Engineer / EMC Department                         | Approved by Glyn He<br>Supervisor/ EMC Department                                                               |
|  | <br><br>Date: Jul. 22, 2019 |

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## RELEASE CONTROL RECORD

| ISSUE NO.    | REASON FOR CHANGE | DATE ISSUED   |
|--------------|-------------------|---------------|
| FS190701N023 | Original release  | Jul. 22, 2019 |



## 1. CERTIFICATION

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC ID:</b>         | OMOC80765                                                                                                                                      |
| <b>PRODUCT:</b>        | PROJECTION ALARM CLOCK                                                                                                                         |
| <b>BRAND NAME:</b>     | LA CROSSE                                                                                                                                      |
| <b>MODEL:</b>          | C80765                                                                                                                                         |
| <b>ADDITIONAL NO.:</b> | C80765-INT, 616-1612, C80765vX, 616-1612-INT, C80765vX-INT, 616-1612vX, C80765-XX, 616-1612-XX-INT, 616-1612vX-INT, C80765-XX-INT, 616-1612-XX |
| <b>APPLICANT:</b>      | La Crosse Technology Ltd.                                                                                                                      |
| <b>STANDARDS:</b>      | 47 CFR PART 1, Subpart I, Section 1.1310<br>KDB 680106 D01                                                                                     |

**Remark:** Additional models (see above table) are identical with the test model C80765 except the shell color, software, and packaging upgrade version number for trading purpose

X can be 0~9, 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



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## 2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

| Description  | Manufacturer | Model No. | Serial No. |
|--------------|--------------|-----------|------------|
| Mobile phone | Apple        | MQA52CH/A | /          |

### 2.1 TEST LOCATION

All tests were performed at:

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan City, Guangdong 523942, China

Tel: +86 769 8593 5656

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### 2.2 DEVIATION FROM STANDARDS

None

### 2.3 ABNORMALITIES FROM STANDARD CONDITIONS

None

## 3. EQUIPMENTS USED DURING TEST

| Item | Test Equipment           | Manufacturer  | Model No. | Inventory No. | Car.Due date. |
|------|--------------------------|---------------|-----------|---------------|---------------|
| 1    | 3m Semi-Anechoic Chamber | ETS-LINDGRE N | 7m*4m*3m  | NSEMC003      | 2020-03-19    |
| 2    | Electric Filed Meter     | Narda         | Y2006     | L-0017        | 2019-11-08    |

**NOTE:** 1. The test was performed in RS chamber.  
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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## 4. TEST RESULTS

### 4.1 RF EXPOSURE TEST

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
 Measurement Distance: 15cm  
 Test voltage: DC 5V from Adapter input AC 120V/60Hz

Limit:

| Frequency range(MHz)                                                                                                                                                                                                                                                                            | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>                                                                                                                                                                                                                                         |                               |                               |                                     |                          |
| 0.3-3.0                                                                                                                                                                                                                                                                                         | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                                                                                                                                                                                                                                                          | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 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</b>                                                                                                                                                                                                                                  |                               |                               |                                     |                          |
| 0.3-1.34                                                                                                                                                                                                                                                                                        | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                                                                                                                                                                                                                                                         | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 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<br>*=Plane-wave equivalent power density<br>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). |                               |                               |                                     |                          |

#### 4.1.1 EUT OPERATION

##### Operating Environment:

Temperature: 24.0°C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

##### EUT Operation:

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

**4.1.2 MEASUREMENT DATA****Output Voltage=DC 5V****Wireless radiation frequency: 110KHz ~ 205KHz****Electric Field Emissions**

| Test Position | Test Distance (cm) | Probe Measure Result (V/m) | Limit (V/m) |
|---------------|--------------------|----------------------------|-------------|
| Side 1        | 15                 | 1.71                       | 614         |
| Side 2        | 15                 | 1.45                       | 614         |
| Side 3        | 15                 | 1.62                       | 614         |
| Side 4        | 15                 | 1.89                       | 614         |
| Top           | 15                 | 1.75                       | 614         |
| Bottom        | 15                 | 1.68                       | 614         |

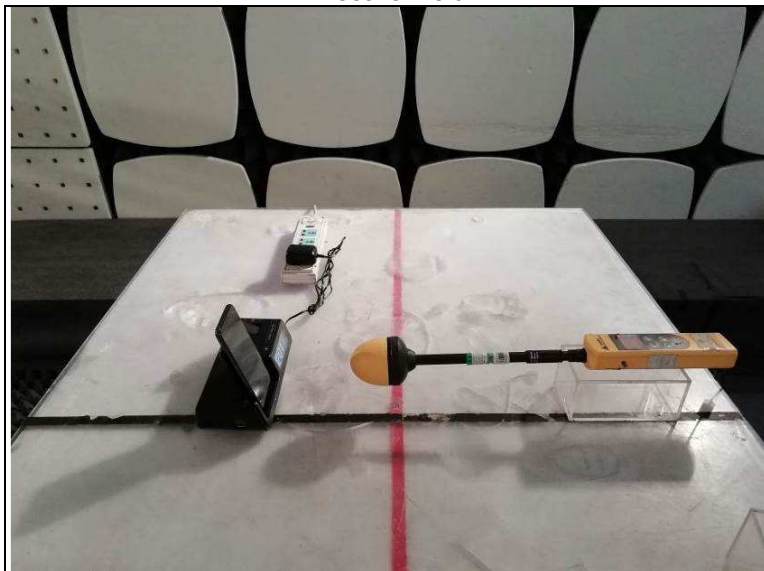
**Magnetic Field Emissions**

| Test Position | Test Distance (cm) | Probe Measure Result (A/m) | Limit (A/m) |
|---------------|--------------------|----------------------------|-------------|
| Side 1        | 15                 | 0.0052                     | 1.63        |
| Side 2        | 15                 | 0.0051                     | 1.63        |
| Side 3        | 15                 | 0.0067                     | 1.63        |
| Side 4        | 15                 | 0.0068                     | 1.63        |
| Top           | 15                 | 0.0057                     | 1.63        |
| Bottom        | 15                 | 0.0085                     | 1.63        |

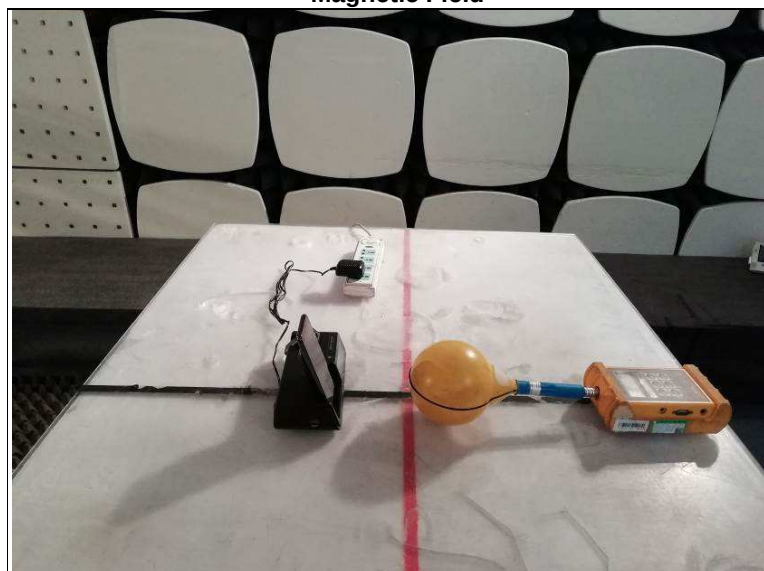
Note: All modes have been tested and we only record the worst test result in full load mode.

## PHOTOGRAPHS OF THE TEST CONFIGURATION

Electric Field



Magnetic Field



--- END ---