



■ Report No.: DDT-R21022514-13E4

■ Issued Date: Apr. 21, 2021

## RF EXPOSURE REPORT

### FOR

|                             |   |   |
|-----------------------------|---|---|
| <b>Applicant</b>            | : | KREAFUNK APS  |
| <b>Address</b>              | : | Klamsagervej 35 A, st.8230 Åbyhøj, Denmark  |
| <b>Equipment under Test</b> | : | Bluetooth Speaker   |
| <b>Model No.</b>            | : | aCUBE   |
| <b>Trade Mark</b>           | : | KREAFUNK  |
| <b>FCC ID</b>               | : | 2ACVC-ACUBE   |
| <b>Manufacturer</b>         | : | Shenzhen Winnershine Electronics Co., Ltd   |
| <b>Address</b>              | : | 101.32# Yuanhu Road, zhangbei community,<br>LongCheng Street, LongGang district, Shenzhen |



**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

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# REPORT

### Table of Contents

|      |                                      |   |
|------|--------------------------------------|---|
|      | Test report declares.....            | 3 |
| 1.   | General Information .....            | 5 |
| 1.1. | Description of equipment .....       | 5 |
| 1.2. | Assess laboratory .....              | 5 |
| 2.   | RF Exposure evaluation for FCC ..... | 5 |

## Test Report Declare

|                             |   |  |
|-----------------------------|---|--|
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**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above.

The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

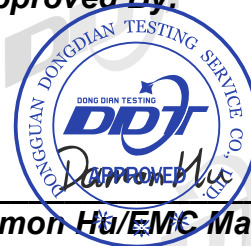
|                         |                    |                      |                               |
|-------------------------|--------------------|----------------------|-------------------------------|
| <b>Report No:</b>       | DDT-R21022514-13E4 |                      |                               |
| <b>Date of Receipt:</b> | Mar. 15, 2021      | <b>Date of Test:</b> | Mar. 15, 2021 ~ Apr. 09, 2021 |

**Prepared By:**

*Sam Li*

**Sam Li/Engineer**

**Approved By:**



**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

## Revision History

| Rev. | Revisions     | Issue Date    | Revised By |
|------|---------------|---------------|------------|
| ---  | Initial issue | Apr. 21, 2021 |            |
|      |               |               |            |

## 1. General Information

### 1.1. Description of equipment

|                          |  |
|--------------------------|--|
| EUT* Name                | : Bluetooth Speaker  |
| Model Number             | : aCUBE  |
| EUT function description | : Please reference user manual of this device                  |
| Power Supply             | : DC 5V by USB<br>: DC 3.7V by Polymer Li-ion built-in battery |
| Radio Specification      | : Bluetooth V5.0   |
| Operation Frequency      | : 2402 MHz - 2480 MHz  |
| Modulation               | : GFSK, $\pi/4$ -DQPSK, 8DPSK                                  |
| Data Rate                | : 1 Mbps, 2 Mbps, 3 Mbps                                       |
| Antenna Type             | : PCB antenna, maximum PK gain: 2.9 dBi                        |
| Serial Number            | : N/A  |

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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CNAS Registration No. CNAS L6451; A2LA Certificate Number: 3870.01;

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada Site Registration Number: 10288A-1; CAB identifier: CN0048

## 2. RF Exposure evaluation for FCC

Ⓡ According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where:

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

**Manufacturing Tolerance**

| GFSK (Peak)     |           |            |            |
|-----------------|-----------|------------|------------|
| Channel         | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)    | 3         | 3          | 3          |
| Tolerance ±(dB) | 1         | 1          | 1          |
| π/4DQPSK (Peak) |           |            |            |
| Channel         | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)    | 5         | 5          | 5          |
| Tolerance ±(dB) | 1         | 1          | 1          |
| 8DPSK (Peak)    |           |            |            |
| Channel         | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)    | 5         | 5          | 5          |
| Tolerance ±(dB) | 1         | 1          | 1          |

**Estimation Result**

Worse case is as below: [2480 MHz, 6 dBm, 3.98 mW] output power]

$(3.98/5) \cdot [\sqrt{2.480(\text{GHz})}] = 1.25 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**