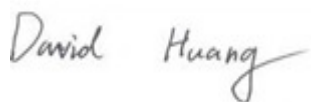


# RF EXPOSURE REPORT



Report No.: 17070259-FCC-H

Supersede Report No.: N/A

|                                                                                                                                      |                                                                                     |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Applicant                                                                                                                            | Verykool USA Inc                                                                    |                                                                                       |
| Product Name                                                                                                                         | Mini Bluetooth Speaker                                                              |                                                                                       |
| Model No.                                                                                                                            | VI1400                                                                              |                                                                                       |
| Serial No.                                                                                                                           | N/A                                                                                 |                                                                                       |
| Test Standard                                                                                                                        | FCC 2.1093:2016                                                                     |                                                                                       |
| Test Date                                                                                                                            | April 18 to 28, 2017                                                                |                                                                                       |
| Issue Date                                                                                                                           | May 10, 2017                                                                        |                                                                                       |
| Test Result                                                                                                                          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail              |                                                                                       |
| Equipment complied with the specification <input checked="" type="checkbox"/>                                                        |                                                                                     |                                                                                       |
| Equipment did not comply with the specification <input type="checkbox"/>                                                             |                                                                                     |                                                                                       |
|                                                   |  |  |
| Loren Lou<br>Test Engineer                                                                                                           | David Huang<br>Checked By                                                           |                                                                                       |
| This test report may be reproduced in full only<br>Test result presented in this test report is applicable to the tested sample only |                                                                                     |                                                                                       |

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: [China@siemic.com.cn](mailto:China@siemic.com.cn)

## Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

|             |                |
|-------------|----------------|
| Test Report | 17070259-FCC-H |
| Page        | 3 of 8         |

This page has been left blank intentionally.

## CONTENTS

|                                                                                    |   |
|------------------------------------------------------------------------------------|---|
| 1. REPORT REVISION HISTORY .....                                                   | 5 |
| 2. CUSTOMER INFORMATION .....                                                      | 5 |
| 3. TEST SITE INFORMATION .....                                                     | 5 |
| 4. EQUIPMENT UNDER TEST (EUT) INFORMATION .....                                    | 6 |
| 5. FCC §2.1093 - RADIOFREQUENCY RADIATION EXPOSURE EVALUATION: PORTABLE DEVICES. 7 |   |
| 5.1 RF EXPOSURE.....                                                               | 7 |
| 5.2 TEST RESULT .....                                                              | 8 |

## 1. Report Revision History

| Report No.     | Report Version | Description | Issue Date   |
|----------------|----------------|-------------|--------------|
| 17070259-FCC-H | NONE           | Original    | May 10, 2017 |
|                |                |             |              |
|                |                |             |              |
|                |                |             |              |
|                |                |             |              |
|                |                |             |              |

## 2. Customer information

|                  |                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| Applicant Name   | Verykool USA Inc                                                                                                    |
| Applicant Add    | 3636 Nobel Drive, Suite 325, San Diego, California 92122 United States                                              |
| Manufacturer     | NAMO COMMUNIATION TECHNOLOGY (HK) LIMITED                                                                           |
| Manufacturer Add | Room 310-311; Building 2, Block A, GuangXingYuan Internet Industry base, 1009 BaoYuan Road, BaoAn distric, Shenzhen |

## 3. Test site information

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                         |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China<br>518108 |
| FCC Test Site No.    | 718246                                                                                                                                       |
| IC Test Site No.     | 4842E-1                                                                                                                                      |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                                                                                                   |

#### 4. Equipment under Test (EUT) Information

Description of EUT: Mini Bluetooth Speaker

Main Model: VI1400

Serial Model: N/A

Date EUT received: April 17, 2017

Test Date(s): April 18 to 28, 2017

Antenna Gain: 0dBi

Antenna Type: PCB antenna

Type of Modulation: GFSK,  $\pi/4$  DQPSK, 8DPSK

RF Operating Frequency (ies): 2402-2480 MHz

Number of Channels: 79CH

Port: USB Port

Input Power: Battery:  
Model:672125  
Spec: AC 3.7V, 280mAh  
USB:DC 5V

Trade Name : veryKool

FCC ID: WA6VI1400

## 5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

### 5.1 RF Exposure

#### Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), 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.

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,<sup>16</sup> 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<sup>17</sup>
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

## 5.2 Test Result

### Bluetooth Mode:

| Modulation | CH   | Frequency (MHz) | Conducted Power (dBm) | Tune Up Power (dBm) | Max Tune Up Power (dBm) | Max Tune Up Power (mW) | Result | Limit |
|------------|------|-----------------|-----------------------|---------------------|-------------------------|------------------------|--------|-------|
| GFSK       | Low  | 2402            | -4.658                | -4±1                | -3                      | 0.501                  | 0.16   | 3     |
|            | Mid  | 2441            | <b>-3.967</b>         | -4±1                | -3                      | 0.501                  | 0.16   | 3     |
|            | High | 2480            | -4.776                | -4±1                | -3                      | 0.501                  | 0.16   | 3     |
| π /4 DQPSK | Low  | 2402            | -4.667                | -5±1                | -4                      | 0.398                  | 0.12   | 3     |
|            | Mid  | 2441            | -5.397                | -5±1                | -4                      | 0.398                  | 0.12   | 3     |
|            | High | 2480            | -5.852                | -5±1                | -4                      | 0.398                  | 0.13   | 3     |
| 8-DPSK     | Low  | 2402            | -4.265                | -5±1                | -4                      | 0.398                  | 0.12   | 3     |
|            | Mid  | 2441            | -5.082                | -5±1                | -4                      | 0.398                  | 0.12   | 3     |
|            | High | 2480            | -5.870                | -5±1                | -4                      | 0.398                  | 0.13   | 3     |

**Result:** Compliance

No SAR measurement is required.