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Test report No: 4395104.59

# TEST REPORT
# Radio Spectrum Matters (RF)

| | |
|---|---|
| Identification of item tested | Vibrating Ring / Vibrating Plug / Wearable Vibrator<br>Refer to model list for details |
| Trademark | We-vibe |
| Model and /or type reference | 6000-01, 6000-02, 6000-03, 6000-04 |
| FCC ID | ZUE600I |
| Features | 5 Vdc, 0,5 A |
| Applicant´s name / address | WOW Tech Canada Ltd.,<br>1545 Carling Avenue, Suite 401. Ottawa, Ontario, K1Z 8P9, Canada |
| Test method requested, standard | KDB 447498 D01V06<br>FCC Part 1.1310 |
| Verdict Summary | COMPLIANCE |
| Tested by (name & signature) | Harry Deng  |
| Approved by (name & signature) | Tim Yan  |
| Date of issue | 2022-12-14 |
| Report template No | TRF_EMC 2017-06- FCC_Exposure |

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## GENERAL CONDITIONS

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. This report will not be used for social proof function in China market.

## UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

## ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

| | |
|---|---|
| Ambient temperature | 15 °C – 35 °C |
| Relative Humidity air | 30% - 60% |
| Atmospheric pressure | 86 kPa – 106 kPa |

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

## POSSIBLE TEST CASE VERDICTS

| | |
|---|---|
| Test case does not apply to test object | N/A |
| Test object does meet requirement | P (Pass) / PASS |
| Test object does not meet requirement | F (Fail) / FAIL |
| Not measured | N/M |

## DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

| | | | | |
|---|---|---|---|---|
| ☒ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT. | | | | |
| ☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT. | | | | |
| Decimal separator used in this report | ☒ | Comma (,) | ☐ | Point (.) |

## ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

| | | |
|---|---|---|
| EUT | : | Equipment Under Test |
| QP | : | Quasi-Peak |
| CAV | : | CISPR Average |
| AV | : | Average |
| CDN | : | Coupling Decoupling Network |
| SAC | : | Semi-Anechoic Chamber |
| OATS | : | Open Area Test Site |
| BW | : | Bandwidth |
| AM | : | Amplitude Modulation |
| PM | : | Pulse Modulation |
| HCP | : | Horizontal Coupling Plane |
| VCP | : | Vertical Coupling Plane |
| $U_N$ | : | Nominal voltage |
| *T*x | : | Transmitter |
| *R*x | : | Receiver |
| N/A | : | Not Applicable |
| N/M | : | Not Measured |

## DOCUMENT HISTORY

| Report nr. | Date | Description |
|---|---|---|
| 4395104.59 | 2022-12-14 | First release. |
| | | |

## REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

# 1 GENERAL INFORMATION

## 1.1 General Description of the Item(s)

| | |
|---|---|
| Description of the item .....: | Vibrating Ring / Vibrating Plug / Wearable Vibrator<br>Refer to model list for details |
| Trademark.....: | We-vibe |
| Model / Type number.....: | 6000-01, 6000-02, 6000-03, 6000-04 |
| FCC ID .....: | ZUE600I |
| Ratings.....: | 5 Vdc, 0,5 A |
| Manufacturer.....: | WOW Tech Europe GmbH<br>Hermann-Blankenstein-Str. 5, 10249 Berlin, Germany |
| Factory .....: | Seaco Technology(Dongguan)Co., Ltd.<br>No.6, the 3rd Jin He Industrial Zone, Zhang Mutou Town, Dongguan City<br>Guangdong, China |

| | |
|---|---|
| Operating frequency range(s) – Tx.: | 2402-2480 MHz |
| Operating frequency range(s) – Rx : | 2402-2480 MHz |
| Maximum RF output power (conducted) .....: | -7,2 dBm |
| E.I.R.P. .....: | -2,2 dBm |
| Type of Modulation .....: | GFSK |
| PHYs.....: | LE 1M, LE 2M |
| Data Rate.....: | 1 Mbit/s, 2 Mbit/s |
| Antenna type.....: | Integral Antenna |
| Antenna gain.....: | 5,0 dBi |
| Number of channel .....: | 40 |
| Operating Temperature Range.....: | -20 – 45 ℃ |

| | | | Reference poles | | | | |
|---|---|---|---|---|---|---|---|
| Rated power supply .....: | Voltage and Frequency | | L1 | L2 | L3 | N | PE |
| | ☐ | AC: 220 – 240 V, 50/60 Hz | ☐ | ☐ | ☐ | ☐ | ☐ |
| | ☒ | DC: 5 V | | | | | |
| | ☐ | Battery: 3 V | | | | | |
| Mounting position.....: | ☐ | Table top equipment | | | | | |
| | ☐ | Wall/Ceiling mounted equipment | | | | | |
| | ☐ | Floor standing equipment | | | | | |
| | ☒ | Hand-held equipment | | | | | |
| | ☐ | Other: | | | | | |

| Intended use of the Equipment Under Test (EUT) |
|---|
| The apparatus as supplied for the test is Vibrating Ring / Vibrating Plug / Wearable Vibrator which intended for residential use. The product contains electronic circuitry and charged by external AC/DC adaptor.<br><br>According to manufacturer's declaration, all models have same electronic circuit but with different appearance and length of RF antenna. |

| Product name | PMN | Model number | Antenna Length / gain | Appearance |
|---|---|---|---|---|
| Vibrating Ring | Verge | 6000-01 | 28 mm / 5 dBi |  |
| Vibrating Ring | Pivot | 6000-02 | 28 mm / 5 dBi |  |
| Vibrating Plug | Ditto | 6000-03 | 28 mm / 5 dBi |  |
| Wearable Vibrator | Jive | 6000-04 | 180 mm / 5 dBi |  |

Hence, model 6000-04 was chosen for full test and the corresponding test data are also representative of the other models as well.

| Copy of marking plate: |
|---|
| No provide. |

## 1.2 **Test data**

| | |
|---|---|
| Test Location | DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch<br>Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China<br>FCC Designation Number: CN1324;<br>ISED CAB identifier: CN0130 |
| Date of receipt of test item | 2022-09-29 |
| Date (s) of performance of tests | 2022-09-29 to 2022-11-18 |

## 1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

| | |
|---|---|
| ☒ | Residential (domestic) environment. |
| ☒ | Commercial and light-industrial environment. |
| ☐ | Industrial environment. |

# 2 DESCRIPTION OF TEST SETUP

## 2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

| Operating mode | Operating mode description | Used for methos | |
|---|---|---|---|
| | | Conducted | Radiated |
| 1 | Transmitting at 1 Mbit/s, | ☒ | ☐ |
| 2 | Transmitting at 2 Mbit/s, | ☒ | ☐ |
| 3 | | ☐ | ☐ |
| Supplemental information: --- | | | |

## 2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

| Auxiliary equipment / unit / software | Type / Version | Manufacturer | Supplied by |
|---|---|---|---|
| --- | --- | --- | --- |
| | | | |
| Supplemental information: --- | | | |

## 2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

# 3 RF EXPOSURE EVALUATION

## 3.1 Limits

According to KDB 447498 D01 General RF Exposure Guidance v06: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in section 4.3.1 & Appendix A.
LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

**Appendix A**

***SAR Test Exclusion Thresholds* for 100 MHz – 6 GHz and ≤ 50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|---|---|---|---|---|---|---|
| 150 | 39 | 77 | 116 | 155 | 194 | *SAR Test Exclusion Threshold* (mW) |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | |
| 1900 | 11 | 22 | 33 | 44 | 54 | |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |

| MHz | 30 | 35 | 40 | 45 | 50 | mm |
|---|---|---|---|---|---|---|
| 150 | 232 | 271 | 310 | 349 | 387 | *SAR Test Exclusion Threshold* (mW) |
| 300 | 164 | 192 | 219 | 246 | 274 | |
| 450 | 134 | 157 | 179 | 201 | 224 | |
| 835 | 98 | 115 | 131 | 148 | 164 | |
| 900 | 95 | 111 | 126 | 142 | 158 | |
| 1500 | 73 | 86 | 98 | 110 | 122 | |
| 1900 | 65 | 76 | 87 | 98 | 109 | |
| 2450 | 57 | 67 | 77 | 86 | 96 | |
| 3600 | 47 | 55 | 63 | 71 | 79 | |
| 5200 | 39 | 46 | 53 | 59 | 66 | |
| 5400 | 39 | 45 | 52 | 58 | 65 | |
| 5800 | 37 | 44 | 50 | 56 | 62 | |

**Note**: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g *SAR Test Exclusion Thresholds* indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

## 3.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 23℃and 50％ RH.

## 3.3 Test Result

| Test Mode | Frequency Band (MHz) | Conducted RF Power Output (dBm) | Antenna Gain (dBi) | Maximum EIRP (dBm) | Maximum Power (mW) | Limit of Power (mW) |
|---|---|---|---|---|---|---|
| BLE | 2400 ~ 2483.5 | -7,2 | 5 | -2,2 | 0,6 | 10 |

Remark:

The test separation distances at <5mm.

--- END ---