

## RF Exposure Report

**Report No.:** SA190606E05

**FCC ID:** NKR-LVSK-P1

**Test Model:** LVP1

**Received Date:** Jun. 06, 2019

**Date of Evaluation:** Jul. 15, 2019

**Issued Date:** Jul. 18, 2019

**Applicant:** Wistron NeWeb Corporation

**Address:** 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

| Issue No.   | Description      | Date Issued   |
|-------------|------------------|---------------|
| SA190606E05 | Original Release | Jul. 18, 2019 |

## 1 Certificate of Conformity

**Product:** Home Phone Base

**Brand:** WNC

**Test Model:** LVP1

**Sample Status:** Engineering Sample

**Applicant:** Wistron NeWeb Corporation

**Date of Evaluation:** Jul. 15, 2019

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**



**Date:**

Jul. 18, 2019

Rona Chen / Specialist

**Approved by :**



**Date:**

Jul. 18, 2019

Dylan Chiou / Project Engineer

## 2 RF Exposure

### 2.1 Limits for Maximum Permissible Exposure (MPE)

| Frequency Range (MHz)                                 | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time (minutes) |
|-------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| 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 <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 ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$r$  = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

### 2.4 Antenna Gain

| Antenna Type | Brand | Antenna Gain (dBi) |            |            |            |
|--------------|-------|--------------------|------------|------------|------------|
|              |       | LTE 2              | LTE 4      | LTE 5      | LTE 13     |
| PIFA         | WNC   | Main: 3.11         | Main: 2    | Main: 0.9  | Main: 1.25 |
|              |       | Aux.: 3.85         | Aux.: 2.84 | Aux.: 1.14 | Aux.: 1.16 |

## 2.5 Calculation Result of Maximum Conducted Power

| Band   | Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|--------|----------------------|-----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| LTE 2  | 1850-1910            | 23.73           | 3.85               | 20            | 0.114                               | 1.00                        |
| LTE 4  | 1710-1755            | 23.89           | 2.84               | 20            | 0.094                               | 1.00                        |
| LTE 5  | 824-849              | 23.81           | 1.14               | 20            | 0.062                               | 0.55                        |
| LTE 13 | 777-787              | 24.81           | 1.25               | 20            | 0.080                               | 0.52                        |

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