

RF Exposure Report

Report No.: SA190319E02

FCC ID: NKR-LVSK-IDU

Test Model: LVSKIDU

Received Date: Mar. 19, 2019

Test Date: May 19, 2019

Issued Date: June 12, 2019

Applicant: Wistron NeWeb Corp.

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
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Taiwan R.O.C.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

**FCC Registration /
Designation Number:** 723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SA190319E02	Original release.	June 12, 2019

1 Certificate of Conformity

Product: LVSKIDU

Brand: WNC

Test Model: LVSKIDU

Sample Status: ENGINEERING SAMPLE

Applicant: Wistron NeWeb Corp.

Test Date: May 19, 2019

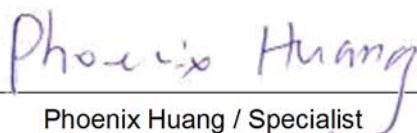
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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 EMC characteristics under the conditions specified in this report.

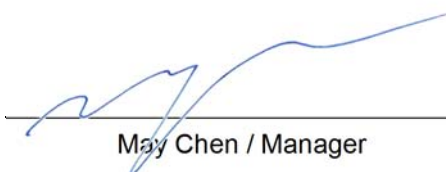
Prepared by :


Phoenix Huang / Specialist

Date:

June 12, 2019

Approved by :


May Chen / Manager

Date:

June 12, 2019

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 ²)	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 ²)*	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/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 20 cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Frequency (MHz)	5745		5785		5825		Antenna Type	Antenna Connector
	Directional Antenna Gain (dBi)							
Vertical-Pol	XZ	4.69	XZ	4.84	XZ	4.79	PCB	i-pex(MHF)
	YZ	2.93	YZ	2.60	YZ	2.49		
	XY	4.12	XY	4.08	XY	4.20		
Horizontal-pol	XZ	4.41	XZ	4.67	XZ	4.36	PCB	i-pex(MHF)
	YZ	1.24	YZ	1.43	YZ	1.51		
	XY	4.94	XY	5.09	XY	4.73		
Note: More detailed information, please refer to operating description.								

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2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	5795	992.471	5.09	20	0.63745	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The directional gain = 5.09dBi
3. The Max. Power = Max. tune up power including tolerance declared by client.

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