



RF EXPOSURE REPORT

REPORT NO.: SA140728E05A

MODEL NO.: OR8400

FCC ID: NKR-OR8400

RECEIVED: July 28, 2014

TESTED: Aug. 04, 2014

ISSUED: Sep. 19, 2014

APPLICANT: Wistron NeWeb Corp.

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
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RELEASE CONTROL RECORD

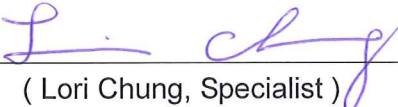
ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140728E05A	Original release	Sep. 19, 2014



1. CERTIFICATION

PRODUCT: High End RFID Reader module
BRAND NAME: WNC
MODEL NO.: OR8400
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Wistron NeWeb Corp.
TESTED DATE: Aug. 04, 2014
STANDARDS: FCC Part 2 (Section 2.1091)
KDB 447498 D03
IEEE C95.1

The above equipment (Model: OR8400) 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 :  , **DATE:** Sep. 19, 2014
(Lori Chung, Specialist)

APPROVED BY :  , **DATE:** Sep. 19, 2014
(May Chen, Manager)

2. RF EXPOSURE LIMIT

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				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. 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

4. 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**.

5. ANTENNA GAIN

The antenna provided to the EUT, please refer to the following table:

Ant. No.	PCB Chain No.	Brand	Model	Antenna Type	Gain(dBi) (excluding cable loss)	Cable Loss (dB)	Net Gain (dBi)	Frequency range (MHz to MHz)	Cable Length (m)	Antenna Connector
1	1~4	WNC	XRAB-N1	Linear	5.5	1.5	4	902~928	3	RP TNC
2	1~4	WNC	XRAB-N2	Linear	5.0	1.5	3.5	902~928	3	RP TNC
3	1~4	WNC	XRAB-N3	Linear	4.0	1.5	2.5	902~928	3	RP TNC

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The maximum conducted power was refer to the radio test report (Report No.: RF140728E05).

FREQUENCY BAND (MHz)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
902.75 ~ 927.25	931.108	4	20	0.46530	0.6

Note: Limit of Power Density = F/1500

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