

RF Exposure Report

Report No.: SA180504E08

FCC ID: NKR-IMG2

Test Model: IMG2

Received Date: May 16, 2018

Test Date: Aug. 05 ~ Aug. 06, 2018

Issued Date: Aug. 10, 2018

Applicant: Wistron NeWeb Corporation

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

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

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA180504E08	Original release.	Aug. 10, 2018

1 Certificate of Conformity

Product: IMG2 LTE module

Brand: Wistron Neweb Corporation

Test Model: IMG2

Sample Status: Engineering sample

Applicant: Wistron NeWeb Corporation

Test Date: Aug. 05 ~ Aug. 06, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

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 : Pettie Chen, **Date:** Aug. 10, 2018
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Aug. 10, 2018
Bruce Chen / 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 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 20cm away from the body of the user. So, this device is classified as Mobile Device.

2.4 Antenna Gain

Function	Frequency Band (MHz)	Antenna Gain (dBi)
LTE B2	1850.7~1909.3	1.56
LTE B4	1710.7~1754.3	1.62
LTE B5	824.7~848.3	3.2
LTE B13	779.5~784.5	1.66

3 Calculation Result of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE B2	1850.7~1909.3	24.32	1.56	20	0.077	1
LTE B4	1710.7~1754.3	24.55	1.62	20	0.082	1
LTE B5	824.7~848.3	24.35	3.2	20	0.113	0.55
LTE B13	779.5~784.5	25.35	1.66	20	0.100	0.52

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