

RF Exposure Report

Report No.: SA160216E03

FCC ID: PPQ-MP1

Test Model: MP1

Received Date: Feb. 16, 2016

Test Date: Mar. 14, 2016

Issued Date: Apr. 26, 2016

Applicant: Lite-On Technology Corp.

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

Issue No.	Description	Date Issued
SA160216E03	Original release.	Apr. 26, 2016



1 Certificate of Conformity

Product: Low Energy Wi-Fi Single Band 802.11b/g/n module

Brand: LITEON

Test Model: MP1

Sample Status: R&D SAMPLE

Applicant: Lite-On Technology Corp.

Test Date: Mar. 14, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

ANSI/ 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 : Wendy Wu, Date: Apr. 26, 2016
Wendy Wu / Specialist

Approved by : May Chen, Date: Apr. 26, 2016
May Chen / Manager

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

F = Frequency in MHz

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = 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

Ant No.	Brand	Model	Ant. Type	2.4GHz Gain with cable loss (dBi)	2.4GHz Cable Loss (dB)	Connector Type	Cable Length (mm)
Ant 1	WNC	81.EBJ15.005	PIFA	3.62	1.15	i-pex(MHF)	300
Ant 2	QCA	MP1-2.4GANT	PCB	3.68	NA	NA	NA

2.5 Calculation Result

802.11b

Frequency Band (MHz)	Max Power Avg. (dBm)	Max Power Avg. (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (W/m ²)
2412 - 2472	19	79.433	3.68	20	0.03687	1

NOTE: 1. This power include tune-up tolerance range that specified in MP1 Tune Up power table

802.11g

Frequency Band (MHz)	Max Power Avg. (dBm)	Max Power Avg. (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (W/m ²)
2412 - 2472	19	79.433	3.68	20	0.03687	1

NOTE: 1. This power include tune-up tolerance range that specified in MP1 Tune Up power table

802.11n (HT20)

Frequency Band (MHz)	Max Power Avg. (dBm)	Max Power Avg. (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (W/m ²)
2412 - 2472	19	79.433	3.68	20	0.03687	1

NOTE: 1. This power include tune-up tolerance range that specified in MP1 Tune Up power table

802.11n (HT40)

Frequency Band (MHz)	Max Power Avg. (dBm)	Max Power Avg. (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (W/m ²)
2422 - 2462	15.50	35.481	3.68	20	0.01647	1

NOTE: 1. This power include tune-up tolerance range that specified in MP1 Tune Up power table

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