

RF Exposure Report

Report No.: SA190815D08

FCC ID: H4IMS5120W

Test Model: MS5120Wt

Received Date: Aug. 15, 2019

Test Date: Aug. 21 to Sep. 2, 2019

Issued Date: Sep. 4, 2019

Applicant: LITE-ON Technology Corp.

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R.O.C

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

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Reference No.: 190904D03



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Release Control Record

Issue No.	Description	Date Issued
SA190815D08	Original release.	Sep. 4, 2019

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1 Certificate of Conformity

Product: Wireless Mouse

Brand: DELL

Test Model: MS5120Wt

Sample Status: Engineering sample

Applicant: LITE-ON Technology Corp.

Test Date: Aug. 21 to Sep. 2, 2019

Standards: FCC Part 2 (Section 2.1093)

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 RF characteristics under the conditions specified in this report.

Prepared by :	Munie	Chang	, Date:	Sep. 4, 2019	
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2 Evaluation Result

Following FCC KDB 447498 D01 "General SAR test exclusion guidance"

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz.
- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and \leq 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by ½ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

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3 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

Function	Frequency (GHz)	Max. Radiated Field Strength (dBuV/m)	Max. Radiated Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 3)	10-g extremity SAR test exclusion thresholds	Result
GFSK	2.402-2.479	96.39	1.307	5	0.405	7.5	Pass

Function	Frequency Max. Power (GHz) (mW)		Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 3)		Result	
BT LE	2.402 ~ 2.480	0.3155	5	0.098	7.5	Pass	

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The antenna type is Chip antenna with -0.6dBi gain.
- 3. Calculate SAR test exclusion thresholds from condition "1" formulas.
- 4. Bluetooth & GFSK technologies can not transmit at same time.

4 Conclusion

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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