

RF Exposure Report

Report No.: SA161007E01

FCC ID: JNZA00073

Test Model: A-00073

Received Date: Oct. 07, 2016

Test Date: Oct. 14, 2016

Issued Date: Oct. 24, 2016

Applicant: LOGITECH FAR EAST LTD.

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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 |
|-------------|-------------------|---------------|
| SA161007E01 | Original release. | Oct. 24, 2016 |

1 Certificate of Conformity

Product: Wireless Dongle

Brand: Logitech

Test Model: A-00073

Sample Status: ENGINEERING SAMPLE

Applicant: LOGITECH FAR EAST LTD.

Test Date: Oct. 14, 2016

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 EMC characteristics under the conditions specified in this report.

Prepared by : Midoli Peng , **Date:** Oct. 24, 2016
Midoli Peng / Specialist

Approved by : May Chen , **Date:** Oct. 24, 2016
May Chen / Manager

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}}{\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}}$$
 - $f(\text{GHz})$ 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 ≤ 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 $[1 + \log(100/f(\text{MHz}))]$ 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 $\frac{1}{2}$ 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.

3 SAR Test Exclusion Thresholds

| Antenna No. | Transmitter Circuit | Ant. Gain (dBi) | Frequency range (GHz to GHz) | Ant. Type | Connector Type |
|-------------|---------------------|-----------------|------------------------------|-----------------|----------------|
| 1 | Chain (0) | -2.34 | 2.4~2.4835 | Printed Antenna | NA |
| 2 | Chain (1) | 1.5 | 2.4~2.4835 | Printed Antenna | NA |

Note: This EUT has support diversity function.

4 SAR Test Exclusion Thresholds

Maximum measured transmitter power:

| Frequency (GHz) | Max. Avg. Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value ^(NOTE 2) | 1-g SAR test exclusion thresholds | Result |
|--------------------|----------------------|------------------------------------|----------------------------------------------------------|-----------------------------------|--------|
| 2.40335 to 2.47735 | 1.726 | 5 | 0.53515464 | 3 | Pass |

NOTE: 1. The antenna type is Printed Antenna with 1.5dBi gain.
 2. Calculate SAR test exclusion thresholds from condition "1" formulas.

5 Conclusion

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

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