

## RF Exposure Report

**Report No.:** SA200416E04

**FCC ID:** JNZTR0006

**Test Model:** TR0006

**Received Date:** Apr. 18, 2020

**Test Date:** Apr. 28, 2020

**Issued Date:** May 14, 2020

**Applicant:** LOGITECH FAR EAST LTD.

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

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**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
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**FCC Registration /  
Designation Number:** 723255 / TW2022

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## Table of Contents

Release Control Record.....	3
1     Certificate of Conformity.....	4
2     Evaluation Result.....	5
3     SAR Test Exclusion Thresholds.....	6
4     Conclusion .....	6

### Release Control Record

Issue No.	Description	Date Issued
SA200416E04	Original release.	May 14, 2020

## 1 Certificate of Conformity

**Product:** Wireless Mouse  
**Brand:** logitech  
**Test Model:** TR0006  
**Sample Status:** ENGINEERING SAMPLE  
**Applicant:** LOGITECH FAR EAST LTD.  
**Test Date:** Apr. 28, 2020  
**Standards:** FCC Part 2 (Section 2.1093)  
IEEE C95.1-1992  
**References Test Guidance:** KDB 447498 D01 General RF Exposure Guidance v06

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 :** Phoenix Huang, **Date:** May 14, 2020  
Phoenix Huang / Specialist

**Approved by :** Clark Lin, **Date:** May 14, 2020  
Clark Lin / Technical 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  $\leq 50$  mm are determined by:
 
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
  - $f(\text{GHz})$  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  $\leq 50$  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)  $\cdot$  (f(MHz)/150)] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot$  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  $[1 + \log(100/f(\text{MHz}))]$  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  $\leq 50$  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

Operation Mode	Evaluation Frequency (MHz)	Max Avg. Power (dBm)	Max Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value (mW/mm)	10-g SAR test exclusion thresholds (mW/mm)	Result
GFSK	2403-2481	4.59	2.877	5	0.906	7.5	Pass
BT LE-1M	2402-2480	4.62	2.897	5	0.912	7.5	Pass
BT LE-2M	2404-2478	4.59	2.877	5	0.906	7.5	Pass

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Calculate SAR test exclusion thresholds from condition 1) formulas.

### 4 Conclusion

The device of Bluetooth and GFSK function type can't transmit simultaneously.

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

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