

RF Exposure Report

Report No.: SABDKG-WTW-P21030577

FCC ID: JNZMR0091

Test Model: MR0091

Received Date: Mar. 16, 2021

Test Date: Mar. 26, 2021

Issued Date: Apr. 21, 2021

Applicant: LOGITECH FAR EAST LTD.

Address: 7700 Gateway Boulevard Newark California United States

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

Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwar

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan

FCC Registration / Designation Number:

723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
SABDKG-WTW-P21030577	Original release.	Apr. 21, 2021



1 Certificate of Conformity

Product: Wireless Mouse

Brand: Logitech

Test Model: MR0091

Sample Status: Engineering sample

Applicant: LOGITECH FAR EAST LTD.

Test Date: Mar. 26, 2021

Standards: FCC Part 2 (Section 2.1093)

IEEE C95.1-1992

References Test KDB 447498 D01 General RF Exposure Guidance v06 Guidance:

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.

Claire Kuan / Specialist

Approved by : , Date: Apr. 21, 2021

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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.</p>
- 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(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

BT-LE Avg. Power Table

BT-LE 1M

L 1181			
	BT-LE	function	
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	4.875	6.88
19	2440	4.519	6.55
39	2480	4.083	6.11
	Logi bo	It function	<u> </u>
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	4.732	6.75
19	2440	4.385	6.42
39	2480	4.018	6.04

For BT-LE SAR Test Exclusion Thresholds

Frequency (MHz)	Max Avg. Power (dBm)	Max Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 1)	10-g SAR test exclusion thresholds	Result
2402 ~ 2480	6.88	4.875	5	1.535	7.5	Pass

Note: 1. Calculate SAR test exclusion thresholds from condition "1" formulas.

BT-LE 2M

BT-LE function						
Channel	Channel Frequency (MHz)		Average Power (dBm)			
1	2404	4.853	6.86			
19	2440	4.498	6.53			
38	38 2478		6.12			
	Logi bolt function					
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)			
0	2402	4.71	6.73			
19	2440	4.375	6.41			
39	2480	3.999	6.02			

For BT-LE SAR Test Exclusion Thresholds

Frequency (MHz)	Max Avg. Power (dBm)	Max Avg. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 1)	10-g SAR test exclusion thresholds	Result
2404 ~ 2478	6.86	4.853	5	1.528	7.5	Pass

Note: 1. Calculate SAR test exclusion thresholds from condition "1" formulas.



4 Conclusion
Since average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.
END

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