		B U R E A U VERITAS
	RF Exposure Report	
Report No.:	SA180402E18	
FCC ID:	JNZMR0070	
Test Model:	M-R0070	
Received Date:	Apr. 02, 2018	
Test Date:	Apr. 17, 2018	
Issued Date:	Apr. 25, 2018	
Applicant:	LOGITECH FAR EAST LTD.	
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Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Bran Hsin Chu Laboratory	ch
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Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
FCC Registration / Designation Number:	723255 / TW2022	
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Release Control Record					
Issue No.	Description	Date Issued			
SA180402E18	Original release.	Apr. 25, 2018			



1 Certificate of Conformity

Product:	2.4GHz Wireless Mouse
Brand:	logitech G
Test Model:	M-R0070
Sample Status:	ENGINEERING SAMPLE
Applicant:	LOGITECH FAR EAST LTD.
Test Date:	Apr. 17, 2018
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 :	Wondy	Mu,	Date:	Apr. 25, 2018	
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Approved by :	\mathcal{M}	,	Date:	Apr. 25, 2018	
	May Chen / Man	ager			



2 Evaluation Result

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

The corresponding SAR Exclusion Threshold condition, listed below:

 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.
- 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 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.



3 SAR Test Exclusion Thresholds

GFSK Avg. Power Table

Channel	Frequency (MHz)	Frequency (MHz)	
		(mW)	(dBm)
1	2402	6.095	7.85
41	2442	6.209	7.93
80	2481	6.31	8.00

For GFSK SAR Test Exclusion Thresholds

Frequency (MHz)	Max Avg. Power (dBm)	*Max Time Avg. Power (dBm)	Max Time Avg. Power (mW)	SAR test exclusion calculation value ^(NOTE 2)	10-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.481	8	-4.17	0.383	0.1206	7.5	Pass

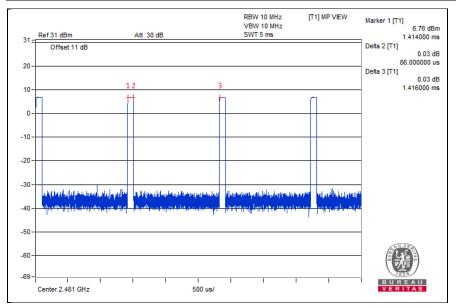
NOTE: 1. The antenna type is Printed Antenna with 2.02dBi gain.

2. Calculate SAR test exclusion thresholds from condition "1" formulas.

3. *Time Avg. Power=Avg. Power+Duty factor

GFSK Duty Cycle of Test Signal

	Tx on	Tx total	Duty Factor		
Duty Cycle	(ms)	(ms)	(dB)		
	0.086	1.416	-12.17		
Duty Factor =10 * log(Tx on / Tx total)					



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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