

RF EXPOSURE REPORT

REPORT NO.: SA130204E09

MODEL NO.: Y-R0040

FCC ID: JNZYR0040

RECEIVED: Feb. 04, 2013

TESTED: Feb. 07, 2013

ISSUED: Mar. 04, 2013

APPLICANT: LOGITECH FAR EAST LTD.

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130204E09	Original release	Mar. 04, 2013

1. CERTIFICATION

PRODUCT: Bluetooth Keyboard
BRAND NAME: Logitech
MODEL NO.: Y-R0040
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: LOGITECH FAR EAST LTD.
TESTED DATE: Feb. 07, 2013
STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: Y-R0040) 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 :  , **DATE:** Mar. 04, 2013
(Elsie Hsu, Specialist)

APPROVED BY :  , **DATE:** Mar. 04, 2013
(May Chen, Deputy 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)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
 - Ø $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - Ø Power and distance are rounded to the nearest mW and mm before calculation
 - Ø 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 - 50 mm) $\cdot (f(\text{MHz})/150)$] 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 ≤ 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

Maximum measured transmitter power:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1g SAR test exclusion thresholds	Result
2.402 ~ 2.480	1.236	5	0.383	3	Pass

NOTE: 1. The antenna type is PCB printed antenna with 4.61dBi gain.

2. Calculate SAR test exclusion thresholds from condition “1” formulas.

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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