

RF Exposure Report

Report No.: SA171128D08

FCC ID: EMJMHSA-P003M

Test Model: HSA-P003M

Received Date: Nov. 28, 2017

Test Date: Jan. 4 ~ 9, 2018

Issued Date: Jan. 15, 2018

Applicant: PRIMAX ELECTRONICS LTD.

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Release Control Record

| Issue No. | Description | Date Issued |
|-------------|-------------------|---------------|
| SA171128D08 | Original release. | Jan. 15, 2018 |

1 Certificate of Conformity

Product: Mouse

Brand: hp

Test Model: HSA-P003M

Sample Status: Engineering sample

Applicant: PRIMAX ELECTRONICS LTD.

Test Date: Jan. 4 ~ 9, 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 RF characteristics under the conditions specified in this report.

Prepared by :



Date: Jan. 15, 2018

Jessica Cheng / Senior Specialist

Approved by :



Date: Jan. 15, 2018

Rex Lai / Associate 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:
$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
 - $f(\text{GHz})$ 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) · ($f(\text{MHz})/150$)] 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

Maximum measured transmitter power:

| Function | Max. Radiated Power (dBuV/m) | Max. Radiated Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value ^(NOTE 2) | 1-g SAR test exclusion thresholds | Result |
|----------|------------------------------|--------------------------|------------------------------------|--|-----------------------------------|--------|
| GFSK | 56.22 | 0.000126 | 5 | 0.000039 | 3 | Pass |

NOTE: 1. The antenna type is Printed antenna with 3.15 dBi 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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