

RF EXPOSURE REPORT

REPORT NO.: SA140312C05 R1

MODEL NO.: HRM1026A

FCC ID: VIYHRM1026A

IC: 7305A-HRM1026A

RECEIVED: Mar. 12, 2014

TESTED: Mar. 15 ~ Mar. 18, 2014

ISSUED: May 21, 2014

APPLICANT: Hosiden Corporation

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140312C05	Original release	Mar. 19, 2014
SA140312C05 R1	Changed product name	May 21, 2014

1. CERTIFICATION

PRODUCT: Wireless Low Energy Module
MODEL: HRM1026A
BRAND: Hosiden
APPLICANT: Hosiden Corporation
TESTED: Mar. 15 ~ Mar. 18, 2014
TEST SAMPLE: Production Prototype
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1
RSS-102 Issue 4 (2010-12)

The above equipment (Model: HRM1026A) 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 :** May 21, 2014
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APPROVED BY :  , **DATE :** May 21, 2014
Ken Liu / Senior 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16 where}$$
 - $f(\text{GHz})$ 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) $[(\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50\text{mm}) \cdot (f(\text{MHz})/150)]$ mW, at 100MHz to 1500 MHz
 - b) $[(\text{Threshold at 50 mm in step 1}) + (\text{test separation distance} - 50 \text{ mm}) \cdot 10]$ 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:

Data Rate 250kbps for 1MHz channel spacing:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	3.516	5	1.089	3	Pass

Data Rate 1Mbps for 2MHz channel spacing:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	3.475	5	1.077	3	Pass

Data Rate 2Mbps for 2MHz channel spacing:

Frequency (GHz)	Max. Power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value ^(NOTE 2)	1-g extremity SAR test exclusion thresholds	Result
2.402 ~ 2.480	3.475	5	1.077	3	Pass

NOTE: 1. The antenna type is $\lambda/4$ inverted-F antenna with -2.5dBi gain.

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