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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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ISSUED BY: Bureau Veritas Consumer Products Services
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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



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1. CERTIFICATION

PRODUCT: Wireless Low Energy Module

MODEL: HRM1026A

BRAND: Hosiden

APPLICANT: Hosiden Corporation

TESTED: Mar. 15 ~ Mar. 18, 2014

TEST SAMPLE: Production Prototype

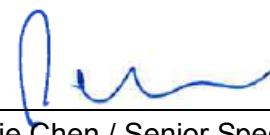
STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

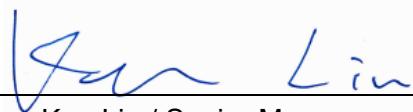
IEEE C95.1

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

Pettie Chen / Senior Specialist

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 \leq 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, 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 \leq 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) \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 \leq 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 \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.



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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.