	BUREAU VERITAS
	RF Exposure Report
Report No.:	SA171130C26
FCC ID:	HD5-660W
Test Model:	SOM660W
Received Date:	Nov. 30, 2017
Date of Evaluation:	Jan. 29, 2018
Issued Date:	Jan. 31, 2018
Applicant:	Honeywell International Inc.
Address:	9680 Old Bailes Road, Fort Mill, SC 29707 USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)
FCC Registration / Designation Number:	788550 / TW0003
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Release Control Record Description Issue No. Date Issued SA171130C26 Jan. 31, 2018 **Original Release**



1 Certificate of Co	nformity			
Product:	HSOM660			
Brand:	Honeywell			
Test Model:	SOM660W			
Sample Status:	Engineering Sample			
Applicant:	Honeywell International Inc.			
Date of Evaluation:	Jan. 29, 2018			
Standards:	FCC Part 2 (Section 2.1091)			
	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.

Date:

Jan. 31, 2018

Date: Jan. 31, 2018

Prepared by :

Vera Huang

Vera Huang / Specialist

ght Li

Approved by :

Dylan Chiou / Project Engineer



2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)			
Limits For General Population / Uncontrolled Exposure							
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f ²)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			f/1500	30			
1500-100,000			1.0	30			

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

where

 $Pd = power density in mW/cm^{2}$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.



Band	d Max Burst-Averaged Power (dBm)		Max. Time-averaged Power (dBm)		Antenna Gain (dBi)		Distance (cm)		Power Dens (mW/cm²)	
GSM850	· · · · · · · · · · · · · · · · · · ·		25.4			2.15	20		0.113	0.55
GSM1900		31.1	22.1		3	3.13	3 20		0.066	1.00
Band		Max Pow (dBm)	er	Antenna ((dBi)	Gain	Dista (cr			ver Density nW/cm ²)	Limit (mW/cm ²)
WCDMA		25.1		3.13		2	0		0.132	1.00
WCDMA I	V	25.1		3.13		2	0		0.132	1.00
WCDMA	V	24.9		2.15		2	20		0.101	0.55
CDMA BC	:0	25.4		2.15		2	0		0.113	0.55
CDMA BC	:1	25.6		3.13		20		0.149		1.00
CDMA BC	10	25.4		2.15		20		0.113		0.54
LTE 2		25.1		3.13		20		0.132		1.00
LTE 4		25.1		3.13		2	20		0.132	1.00
LTE 5		24.7		2.15		20		0.096		0.55
LTE 7		24.4		3.01		20			0.110	1.00
LTE 12		24.9		2.15		20			0.101	0.47
LTE 13		24.9	2.15			20			0.101	0.52
LTE 17		24.9		2.15		20			0.101	0.47
LTE 25		24.0		3.13		20			0.103	1.00
LTE 26		24.6		2.15		20			0.094	0.54
LTE 38		24.5		3.01		20		0.112		1.00
LTE 41		24.4		3.01		20		0.110		1.00
WLAN 2.4G		23.5		3.2		20		0.093		1.00
WLAN 5.2G		19.5		3.8		2	0		0.043	1.00
WLAN 5.3G		19.5		3.8		20			0.043	1.00
WLAN 5.6G		20.5		3.8		20			0.054	1.00
WLAN 5.8	G	20.5		3.8		20			0.054	1.00
Bluetooth		10.5		3.2		2	0		0.005	1.00

2.4 Calculation Result Of Maximum Conducted Power

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

 $\label{eq:WWAN} \begin{array}{l} \mathsf{W}\mathsf{LAN}\ 2.4\mathsf{G}\mathsf{Hz} = 0.149/1 + 0.093/1 = 0.242 \\ \\ \mathsf{W}\mathsf{W}\mathsf{AN}\ + \mathsf{W}\mathsf{LAN}\ 5\mathsf{G}\mathsf{Hz} = 0.149/1 + 0.054/1 = 0.203 \\ \\ \\ \mathsf{W}\mathsf{W}\mathsf{AN}\ + \mathsf{BT} = 0.149/1 + 0.005/1 = 0.154 \\ \\ \hline \textbf{Therefore the maximum calculations of above situations are less than the "1" limit. } \end{array}$

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