RF Exposure Report

Report No.: SA171017E05

FCC ID: 2ABC8-PP300V50SE

Test Model: DT8050A-SN

Received Date: Oct. 17, 2017

Test Date: Oct. 31, 2017

Issued Date: Dec. 06, 2017

Applicant: Honeywell Security Sensor CoE

Address: 38F, Block A of Galaxy Century Building, No.3069 Caitian Road, Fu Tian District, Shenzhen,China

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA171017E05	Original release.	Dec. 06, 2017

1 Certificate of Conformity

Product:	Infrared microwave sensor
Brand:	Honeywell
Test Model:	DT8050A-SN
Sample Status:	ENGINEERING SAMPLE
Applicant:	Honeywell Security Sensor CoE
Test Date:	Oct. 31, 2017
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.

Prepared by : _____ , **Date:** Dec. 06, 2017

Wendy Wu / Specialist

Approved by : _____ , **Date:** Dec. 06, 2017

May Chen / Manager

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**.

2.4 Antenna Gain

The antenna provided to the EUT, please refer to the following table:

Antenna Gain (dBi)	Antenna Type	Connector Type	Frequency range (GHz)
7	Integral PCB Antenna	NA	10.525

2.5 Calculation Result

Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	Pout EIRP (dBm)	Pout EIRP (mW)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
10525	114.6	19.37	86.497	20	0.01721	1

Note: Pout EIRP (dBm) = Field Strength of Fundamental (dBuV/m) - 95.23 (dB)

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