RF Exposure Report

Report No.:	SA180627C01
FCC ID:	ZFL-H1000
Test Model:	H1000
Received Date:	Jun. 07, 2018
Date of Evaluation:	Jul. 24, 2018
Issued Date:	Jul. 31, 2018
Applicant:	Intel Corp.
Address:	2200 MISSION COLLEGE BLVD SANTA CLARA, CA 95054-1537 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

Issue No.	Description	Date Issued
SA180627C01	Original Release	Jul. 31, 2018

1 Certificate of Conformity

Product:	Responsive Retail Sensor (RRS)
Brand:	Intel®
Test Model:	H1000
Sample Status:	Identical Prototype
Applicant:	Intel Corp.
Date of Evaluation:	Jul. 24, 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.

Prepared by : Rona Chen , **Date:** Jul. 31, 2018

Rona Chen / Specialist

Approved by : , **Date:** Jul. 31, 2018

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**.

2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
UHF RFID	902.75 ~ 927.25	27.03	6.35	20	0.433	0.60

Note:

1. Antenna of EUT: Panel antenna with 8.5 dBic gain
2. Antenna Gain (dBi) = Antenna Gain (dBic) – 2.15
3. Above used Max. Output Power is Max. Tune-up Power.

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