

## RF Exposure Report

**Report No.:** SA180323C16

**FCC ID:** 2APRXH2C

**Test Model:** H2C

**Series Model:** H3C

**Received Date:** Mar. 23, 2018

**Test Date:** Apr. 02 ~ Apr. 18, 2018

**Issued Date:** Apr. 25, 2018

**Applicant:** Western Digital Technologies, Inc

**Address:** 3355 Michelson Dr #100, Irvine, CA 92612

**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 (1):** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**Test Location (2):** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)



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### Release Control Record

Issue No.	Description	Date Issued
SA180323C16	Original release.	Apr. 25, 2018

## 1 Certificate of Conformity

**Product:** ibi Wireless

**Brand:** SanDisk

**Test Model:** H2C

**Series Model:** H3C


**Sample Status:** Engineering sample


**Applicant:** Western Digital Technologies, Inc

**Test Date:** Apr. 02 ~ Apr. 18, 2018

**Standards:** FCC Part 2 (Section 2.1091)  
KDB 447498 D03 (January 17, 2014)  
IEEE C95.1

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:** Apr. 25, 2018  
Polly Chien / Specialist

**Approved by :**  , **Date:** Apr. 25, 2018  
Bruce Chen / 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 <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm<sup>2</sup>

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.

### 3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
1TX					
WLAN: 2412-2462	17.31	2.14	20	0.018	1
BT LE: 2402-2480	5.75	2.14	20	0.001	1
2TX					
WLAN: 2412-2462	17.18	5.15	20	0.034	1
WLAN: 5180-5240	19.26	6.20	20	0.070	1
WLAN: 5745-5825	19.22	5.33	20	0.057	1

Note:

**2.4GHz Band:**

1TX: Antenna gain: 2.14dBi

2TX: Directional gain = 2.14dBi+10log(2)=5.15dBi

**5.0GHz Band:**

2TX:

5180-5240MHz: Directional gain = 3.19dBi+10log(2)=6.20dBi

5745-5825 MHz: Directional gain = 2.32dBi+10log(2)=5.33dBi

\*WLAN 2.4GHz & WLAN 5GHz & BT LE cannot transmit simultaneously.

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