

RF Exposure Report

Report No.: SA150804C20A

FCC ID: HDCWLAN194XF2

Test Model: WLAN194XF2

Received Date: Aug. 04, 2015

Test Date: Aug. 31 ~ Sep. 10, 2015

Issued Date: Sep. 15, 2015

Applicant: Adtran

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

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Release Control Record

Issue No.	Description	Date Issued
SA150804C20A	Original release	Sep. 15, 2015

1 Certificate of Conformity

Product: 802.11 an PCIe Module

Brand: Adtran

Test Model: WLAN194XF2

Sample Status: ENGINEERING SAMPLE

Applicant: Adtran

Test Date: Aug. 31 ~ Sep. 10, 2015

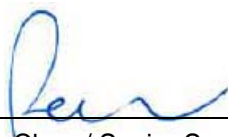
Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

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 :



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Date:

Sep. 15, 2015

Approved by :



Ken Liu / Senior Manager

Date:

Sep. 15, 2015

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				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 ²)	Limit (mW/cm ²)
5260 ~ 5320	20.84	11.77	20	0.363	1
5500 ~ 5700	21.74	11.77	20	0.446	1

Note: Directional gain = 7dBi + 10log(3) = 11.77dBi

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