

RF EXPOSURE REPORT

REPORT NO.: SA140825C09

MODEL NO.: WZR-450HP2D

FCC ID: FDI000000026

RECEIVED: Jul. 25, 2014

TESTED: Aug. 20 ~ Sep. 10, 2014

ISSUED: Sep. 12, 2014

APPLICANT: Buffalo Inc.

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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.	REASON FOR CHANGE	DATE ISSUED
SA140825C09	Original release.	Sep. 12, 2014

Report No.: SA140825C09 3 of 5 Report Format Version 5.0.1



1. CERTIFICATION

PRODUCT: AirStation

MODEL: WZR-450HP2D

BRAND: BUFFALO

TRADE NAME: Buffalo Inc.

APPLICANT: Buffalo Inc.

TESTED: Aug. 20 ~ Sep. 10, 2014

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment (Model: WZR-450HP2D) 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: Polly Chien / Specialist , DATE: Sep. 12, 2014



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	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/cm²

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

MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
26.72	9.51	20	0.835	1

NOTE: Directional gain = 4.74dBi + 10log(3) = 9.51dBi