RF EXPOSURE REPORT

REPORT NO.: SA121114E06C

MODEL NO.: ZoneFlex 7055

FCC ID: S9GZF7055

RECEIVED: Nov. 14, 2012

TESTED: Nov. 22 to 23, 2012

ISSUED: Feb. 18, 2013

APPLICANT: Ruckus Wireless, Inc.

ADDRESS: 350 West Java Drive, Sunnyvale, CA 94089

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

LAB ADDRESS: No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA121114E06C	Original release	Feb. 18, 2013

1. CERTIFICATION

PRODUCT:	ZoneFlex 7055 Access Point
BRAND NAME:	Ruckus Wireless
MODEL NO.:	ZoneFlex 7055
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	Ruckus Wireless, Inc.
TESTED DATE:	Nov. 22 to 23, 2012
STANDARDS:	FCC Part 2 (Section 2.1091)
	FCC OET Bulletin 65, Supplement C (01-01)
	IEEE C95.1

The above equipment (Model: ZoneFlex 7055) 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:** Feb. 18, 2013
(Midoli Peng, Specialist)

APPROVED BY : _____, **DATE:** Feb. 18, 2013
(May Chen, Deputy Manager)

2. RF EXPOSURE LIMIT

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

3. 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

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

For 15.247(2.4GHz) (The Maximum power was refer to the FCC test report (Report No.: RF121114E06):

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm^2)	LIMIT (mW/cm^2)
2412-2462	422.726	3.2	20	0.17571	1

For 15.407(5GHz) (The Maximum power was refer to the FCC test report (Report No.: RF121114E06A-1 R1)

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm^2)	LIMIT (mW/cm^2)
5260 ~ 5320, 5500~5580 & 5660~5700	92.531	5.4	20	0.06383	1

CONCLUSION:

Both of the 2.4GHz and 5GHz WLAN can transmit simultaneously, the formula of calculated the MPE is:

$CPD_1 / LPD_1 + CPD_2 / LPD_2$ + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Therefore, the worst-case situation is 0.17571 / 1 + 0.06383 / 1 = 0.240, which is less than “1”. This confirmed that the device comply with FCC 1.1310 MPE limit.

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