

RF EXPOSURE REPORT

REPORT NO.: SA131106C22

MODEL NO.: EAP210/OWL530

FCC ID: VZ9130002

RECEIVED: Nov. 06, 2013

TESTED: Jan. 15, 2014 ~ Jan. 17, 2014

ISSUED: Aug. 12, 2014

APPLICANT: 4IPNET, INC.

ADDRESS: 3F-3, No. 369, Fusing N. Rd., Taipei 105,

Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 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 Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Report No.: SA131106C22 1 of 6 Report Format Version 5.0.0



TABLE OF CONTENTS

RELEA	SE CONTROL RECORD	3
1.	CERTIFICATION	4
2.	RF EXPOSURE	5
2.1	LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	5
2.2	MPE calculation Formula	5
2.3	Classification	5
2.4	Calculation result of maximum conducted power	6



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
SA131106C22	Original release	Aug. 12, 2014	

Report No.: SA131106C22 3 of 6 Report Format Version 5.0.0



1. CERTIFICATION

PRODUCT: Enterprise Access Point

MODEL NO.: EAP210/OWL530

BRAND: 4ipnet

APPLICANT: 4IPNET, INC.

TESTED: Jan. 15, 2014 ~ Jan. 17, 2014

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (model: EAP210/OWL530) 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 : Syome Liv , DATE : Aug. 12, 2014

Evonne Liu / Specialist

Color La , DATE : Aug. 12, 2014 APPROVED BY :



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	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**.

Report No.: SA131106C22 5 of 6 Report Format Version 5.0.0



2.4 Calculation result of maximum conducted power

FREQUENCY BAND	MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
	802.11b	25.31	5	20	0.214	1
2412 ~ 2462	802.11g	24.29	5	20	0.169	1
2412 ~ 2402	802.11n (20MHz)	24.72	5	20	0.187	1
	802.11n (40MHz)	25.11	5	20	0.204	1
	802.11a	12.33	5	20	0.011	1
5180 ~ 5240	802.11n (20MHz)	12.29	5	20	0.011	1
	802.11n (40MHz)	10.43	5	20	0.007	1
	802.11a	22.47	5	20	0.111	1
5745 ~ 5825	802.11n (20MHz)	22.47	5	20	0.111	1
	802.11n (40MHz)	22.49	5	20	0.112	1

CONCULSION:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4G + WLAN 5.0G = 0.214 + 0.112 = 0.326

Therefore, the maximum calculation of this situation is 0.915, which is less than the "1" limit.