

RF Exposure Report

Report No.: SA121015E01D

FCC ID: Q87-WAP300N

Test Model: WAP300N

Received Date: Apr. 28, 2016

Test Date: May 05, 2016

Issued Date: July 28, 2016

Applicant: LINKSYS LLC

Address: 121 Theory Drive, Irvine, CA 92617, USA

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

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Report Issue History Record

Issue No.	Reason for Change	Date Issued
SA121015E01	Original	Aug. 09, 2013
SA121015E01C	Upgrade the standard to section 15.407 under new rule for U-NII-1, U-NII-3 band.	May 09, 2016
SA121015E01D	Upgrade the standard to section 15.407 under new rule (16-24) for U-NII-3 band.	July 28, 2016

Release Control Record

Issue No.	Description	Date Issued
SA121015E01D	Original release.	July 28, 2016

1 Certificate of Conformity

Product: Selectable Dual-Band Wireless-N Access Point

Brand: Linksys

Test Model: WAP300N

Sample Status: MASS-PRODUCTION

Applicant: LINKSYS LLC

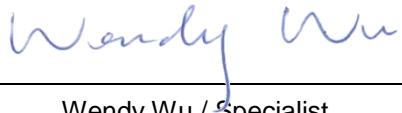
Test Date: May 05, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

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:** July 28, 2016

Wendy Wu / Specialist

Approved by :  , **Date:** July 28, 2016

May Chen / Manager

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

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

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 Antenna Gain

Antenna Type	Gain (dBi) (Include cable loss)	Connector type	Frequency range (MHz to MHz)
Dipole	3.5	R-SMA	2400-2500 5150-5850

3 Calculation Result of Maximum Conducted Power

The data (Except UNII-3 band) was copied from the original test report (Report No.: SA121015E01C)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	420.632	6.51	20	0.37465	1
5180-5240	97.008	6.51	20	0.08640	1
5745-5825	72.789	6.51	20	0.06483	1

NOTE:

2.4GHz: Directional gain = $3.5\text{dBi} + 10\log(2) = 6.51\text{dBi}$

5GHz: Directional gain = $3.5\text{dBi} + 10\log(2) = 6.51\text{dBi}$

2.4GHz and 5GHz technology cannot transmit at same time.

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