

EXPOSURE REPORT

REPORT NO.: SA120926C25I

MODEL NO.: WAP561

FCC ID: PD5-WAP561

RECEIVED: Feb. 26, 2014

TESTED: Jan. 29 ~ Feb. 10, 2015

ISSUED: Feb. 13, 2015

APPLICANT: Delta Networks, 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
SA120926C25I	Original release	Feb. 13, 2015

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1. CERTIFICATION

PRODUCT: Wireless AP with PoE

MODEL NO.: WAP561

BRAND: CISCO

APPLICANT: Delta Networks, Inc.

TESTED: Jan. 29 ~ Feb. 10, 2015

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

The above equipment (model: WAP561) 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: W, DATE: Feb. 13, 2015

Maggie Wu / Specialist

APPROVED BY: Feb. 13, 2015

Ken Liu / Senior Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

		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

 $Pd = power density in mW/cm^2$

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

2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 24cm away from the body of the user. So, this device is classified as **Mobile Device**.

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2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412-2462	28.08	9.75	24	0.838	1
5150-5250	12.59	10.34	24	0.027	1
5745-5825	17.79	10.34	24	0.090	1

NOTE:

- 1. Directional gain = $10 \log[(10^{G1/20 + 10^{G2/20 + ... + 10^{GN/20}})^2/3] = 9.75 dBi$
- 2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20 + ... + } 10^{GN/20})^2/3] = 10.34dBi$

CONCULSION:

Both of the WLAN 2.4G & 5.0G 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 = 0.838 + 0.090 = 0.928

Therefore, the maximum calculation of this situation is 0.928, which is less than the "1" limit.