

RF EXPOSURE REPORT

REPORT NO.: SA120720C10L

MODEL NO.: WS-AP3715i

FCC ID: QXO-AP3715I

RECEIVED: Jul. 16, 2012

TESTED: Aug. 20 ~ Sep. 11, 2012

ISSUED: Oct. 02, 2013

APPLICANT: Enterasys 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	
SA120720C10L	Original release	Oct. 02, 2013	

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1. CERTIFICATION

PRODUCT: Wireless 802.11abgn Access Point

MODEL NO.: WS-AP3715i

BRAND: Enterasys

APPLICANT: Enterasys Networks, Inc.

TESTED: Aug. 20 ~ Sep. 11, 2012

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

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

IEEE C95.1

The above equipment (model: WS-AP3715i) 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

Ivy Lin / Specialist

, DATE :

Oct. 02, 2013

APPROVED BY

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Oct. 02, 2013

Ken Liu / Senior Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		MAGNETIC FIELD STRENGTH (A/m)	_	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**.

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2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
	802.11b	23.83	9.8	20	0.459	1
0440 0460	802.11g	21.27	9.8	20	0.255	1
2412-2462	802.11n (20MHz)	21.15	9.8	20	0.248	1
	802.11n (40MHz)	16.49	9.8	20	0.085	1
	802.11a (1TX)	14.21	6	20	0.021	1
5400 5040	802.11a (3TX)	9.21	10.8	20	0.020	1
5180-5240	802.11n (20MHz)	9.44	10.8	20	0.021	1
	802.11n (40MHz)	12.14	10.8	20	0.039	1
	802.11a (1TX)	18.82	6	20	0.060	1
F74F F00F	802.11a (3TX)	21.57	10.8	20	0.343	1
5745-5825	802.11n (20MHz)	21.39	10.8	20	0.329	1
	802.11n (40MHz)	20.93	10.8	20	0.296	1

NOTE:

For 2.4GHz Band: Directional gain = 5dBi + 10log(3) = 9.8dBi For 5.0GHz Band: Directional gain = 6dBi + 10log(3) = 10.8dBi

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

1. WLAN 2.4G + WLAN 5.0G = 0.459 + 0.343 = 0.802

Therefore, the maximum calculation of this situation is 0.802, which is less than the "1" limit.

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