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Release Control Record					
Issue No.	Description	Date Issued			
SA150413C26	Original release.	Jul. 28, 2015			
SA130413020		JUI. 20, 2013			



1	Certificate of Conformity			
	Product:	Secured Wireless Access Point		
	Brand:	Fortinet Inc.		
Model: FAP-S322CR		FAP-S322CR		
	Series Model:	FortiAP-S322CRxxxxxx, FAP-S322CRxxxxxx, FORTIAP-S322CRxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)		
	Sample Status:	Engineering sample		
	Applicant:	Fortinet Inc.		
Test Date:		Jun. 05 ~ Jul. 17, 2015		
	Standards:	FCC Part 2 (Section 2.1091)		
		KDB 447498 D03		
		IEEE C95.1		

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 :

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Approved by :

, Date: _____ Jul. 28, 2015

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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

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

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 34cm away from the body of the user. So, this device is classified as **Mobile Device**.



Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2412-2462	29.93	9.66	34	0.626	1
5180-5240	23.19	10.8	34	0.173	1
5745-5825	25.87	10.8	34	0.320	1

3 Calculation Result Of Maximum Conducted Power

Note:

2.4GHz: Directional gain =4.89dBi + 10log(3) = 9.66dBi 5GHz: Directional gain =6.03dBi + 10log(3) = 10.8dBi

Conclusion:

The formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1 CPD = Calculation power density LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.626 + 0.320 = 0.946Therefore all the maximum calculations of above situations are less than the "1" limit.

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