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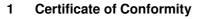


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Release Control Record				
Issue No.	Description	Date Issued		
SA121023C05A	Original release	Sep. 10, 2015		
Report No : SA1210230	2054 Page No. 3 / 5	Report Format Version: 6.1.1		



Product:	Wireless 802.11abgn Access Point		
Brand:	Adtran		
Test Model:	BSAP-1920		
Series Model:	BSAP-1925		
Sample Status:	Engineering sample		
Applicant:	Adtran		
Test Date:			
Test Date.	Aug. 12 ~ Sep. 08, 2015		
	Aug. 12 ~ Sep. 08, 2015 FCC Part 2 (Section 2.1091)		
	FCC Part 2 (Section 2.1091)		

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.

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Approved by :

,

Date: Sep. 10, 2015

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/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

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

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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	27.48	6	20	0.443	1
5180-5240	21.11	7.01	20	0.129	1
5745-5825	20.32	7.01	20	0.108	1

Note:

2.4GHz: Directional gain = 3dBi + 10log(2) = 6dBi 5GHz: Directional gain = 4dBi + 10log(2) = 7.01dBi

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 = 0.443 + 0.129 = 0.572Therefore all the maximum calculations of above situations are less than the "1" limit.

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