

RF Exposure Report

Report No.: SA160920C16

FCC ID: WBV-AP122

Test Model: AP122

Received Date: Sep. 21, 2016

Test Date: Oct. 06 ~ Nov. 16, 2016

Issued Date: Nov. 21, 2016

Applicant: Aerohive Networks Inc.

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

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33383, TAIWAN (R.O.C.)





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Report No.: SA160920C16 Page No. 1 / 6 Report Format Version: 6.1.1



Table of Contents

Rele	ase Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	. 5
2.2	Limits for Maximum Permissible Exposure (MPE)	. 5
3	Calculation Result of Maximum Conducted Power	. 6



Release Control Record

Issue No.	Description	Date Issued
SA160920C16	Original release.	Nov. 21, 2016

Report No.: SA160920C16 Page No. 3 / 6 Report Format Version: 6.1.1



1 Certificate of Conformity

Product: Access Point

Brand: Aerohive

Test Model: AP122

Sample Status: Engineering sample

Applicant: Aerohive Networks Inc.

Test Date: Oct. 06 ~ Oct. 26, 2016

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 : , Date: Nov. 21, 2016

Pettie Chen / Senior Specialist

Approved by: , Date: Nov. 21, 2016

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)			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**.

Report No.: SA160920C16 Page No. 5 / 6 Report Format Version: 6.1.1



3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Max Power+ Max tolerance (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)				
WLAN										
CDD Mode										
2412-2462	22.18	23.68	6.54	20	0.148	1				
5180-5240	22.57	24.07	8.19	20	0.237	1				
5745-5825	21.61	23.11	8.19	20	0.190	1				
Beamforming Mode										
2412-2462	20.31	21.81	6.54	20	0.096	1				
5180-5240	22.57	24.07	8.19	20	0.237	1				
5745-5825	21.57	23.07	8.19	20	0.188	1				
BT LE										
2402-2480	4.84	6.34	3.96	20	0.002	1				

Note: Maximum tolerance is 1.5dB.

NOTE:

WLAN 2.4GHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 6.54dBi$ WLAN 5.0GHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N] = 8.19dBi$

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 + BT LE = 0.148 + 0.237 + 0.002 = 0.387

Therefore the maximum calculations of above situations are less than the "1" limit.

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