

RF Exposure Report

Report No.: SA150821C10G

FCC ID: ZQ6-AP6356SDXX

Test Model: AP6356SD

Series Model: AP6356SDPB_I

Received Date: Aug. 21, 2015

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016 (For 2412 ~ 2462MHz, 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz)

Jul. 07 ~ Jul. 14, 2017 (For 5745 ~ 5825MHz)

Issued Date: Oct. 02, 2017

Applicant: AMPAK Technology Inc.

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)



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Release Control Record

Issue No.	Description	Date Issued
SA150821C10G	Original release	Oct. 02, 2017

1 Certificate of Conformity

Product: WLAN module for 802.11abgn(2x2) + 11ac + BT4.1

Brand: Ampak

Test Model: AP6356SD

Series Model: AP6356SDPB_I

Sample Status: Engineering Sample

Applicant: AMPAK Technology Inc.

Test Date: Nov. 26, 2015 ~ Aug. 26, 2016 (For 2412 ~ 2462MHz, 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz)

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Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

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 : Celine Chou , **Date:** Oct. 02, 2017
Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Oct. 02, 2017
Ken Liu / Senior Manager

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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 Tune up Power

EUT Function	Frequency Band (MHz)	TX Function	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	2412-2462	1TX	14.15	3.50	20	0.012	1
		2TX	14.91	6.51	20	0.028	1
	5180-5240	2TX	12.43	8.51	20	0.025	1
	5260-5320	2TX	12.84	8.51	20	0.027	1
	5500-5700	2TX	12.74	8.51	20	0.027	1
	5745-5825	2TX	12.65	8.51	20	0.026	1
Bluetooth LE	2402-2480	-	7.25	3.50	20	0.002	1
Bluetooth EDR	2402-2480	-	7.84	3.50	20	0.003	1

Note:

2.4GHz: Directional gain = 3.5dBi + 10log(2) = 6.51dBi

5GHz: Directional gain = 5.5dBi + 10log(2) = 8.51dBi

* Both of the 2.4GHz and 5GHz can not transmit simultaneously

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