RF Exposure Report

Report No.:	SA161017C10
FCC ID:	2ADYF-OAP30
Test Model:	OAP30
Received Date:	Oct. 17, 2016
Test Date:	Oct. 22 ~ Nov. 11, 2016
Issued Date:	Nov. 17, 2016
Applicant:	KodaCloud, Inc.
Address:	1901 South Bascom Ave, Suite 1300, Campbell, CA USA 95008
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
SA161017C10	Original release	Nov. 17, 2016

1 Certificate of Conformity

Product:	802.11 abgn/ac Access Point
Brand:	KodaCloud
Test Model:	OAP30
Sample Status:	Engineering sample
Applicant:	KodaCloud, Inc.
Test Date:	Oct. 22 ~ Nov. 11, 2016
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:** Nov. 17, 2016

Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Nov. 17, 2016

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

$Pd = (Pout*G) / (4*pi*r^2)$

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 31cm 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	28.99	9.27	31	0.555	1
5180-5240	22.05	10.77	31	0.159	1
5745-5825	26.45	10.77	31	0.437	1

Note:
2.4GHz: Directional gain = 4.5dBi + 10log(3) = 9.27dBi
5GHz: Directional gain = 6dBi + 10log(3) = 10.77dBi

Conclusion:

Both of the WLAN 2.4G & WLAN 5G 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

2.4G + 5G = 0.555 + 0.437 = 0.992

Therefore, the maximum calculation of this situation is 0.992, which is less than the “1” limit.

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