

RF Exposure Report

Report No.: SA190617C55-1

FCC ID: 2ARXKVHE09

Contains module FCC ID: XMR201605EC25A

Test Model: VHE09

Series Model: VHE09XXX (X=A-Z, 0-9, blank or "-")

Received Date: Nov. 15, 2018

Test Date: Mar. 29 ~ Apr. 23, 2019

Issued Date: Jun. 19, 2019

Applicant: Veea Inc

Address: 164 E 83rd Street, New York NY, 10028, USA

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.)

FCC Registration / 788550 / TW0003

Designation Number:





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The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.



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Release Control Record

Issue No.	Description	Date Issued
SA190617C55-1	Original release.	Jun. 19, 2019



1	Certificate	of Conformity	,
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Product: veeaHub

Brand: veeaHub.

Test Model: VHE09

Series Model: VHE09XXX (X=A-Z, 0-9, blank or "-")

Sample Status: Engineering sample

Applicant: Veea Inc

Test Date: Mar. 29 ~ Apr. 23, 2019

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.3 -2002

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 RF characteristics under the conditions specified in this report.

Polly Chien Specialist Jun. 19, 2019

Approved by :

Bruce Chen / Project Engineer



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/cm²)	Average Time (minutes)	
Limits For General Population / Uncontrolled Exposure					
0.3-1.34	614	1.63	(100)*	30	
1.34-30	824/f	2.19/f	(180/f ²)*	30	
30-300	27.5	0.073	0.2	30	
300-1500			f/1500	30	
1500-100,000			1.0	30	

f = Frequency in MHz; *Plane-wave equivalent power density

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 28cm 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/cm²)	Limit (mW/cm²)
WLAN 2412~2462	27.33	6.21	28	0.229	1
WLAN 5180~5240	29.17	8.12	28	0.544	1
WLAN 5745~5825	29.99	8.12	28	0.657	1
Zigbee 2405~2475	17.05	3.2	28	0.011	1
BT LE 2402~2480	-4.65	6.0	28	0.000	1
BT EDR 2402~2480	3.70	6.0	28	0.001	1

For WLAN 2.4GHz Band: Directional gain = 3.2dBi + 10log(2) = 6.21dBi For WLAN 5.0GHz Band: Directional gain = 2.1dBi + 10log(4) = 8.12dBi

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WCDMA Bnad II	23.5	1.5	28	0.032	1
WCDMA Bnad IV	23.5	1.5	28	0.032	0.55
WCDMA Bnad V	23.5	-1.6	28	0.016	1
LTE Band II	24	1.5	28	0.036	1
LTE Band IV	24	1.5	28	0.036	1
LTE Band XII	24	-1.6	28	0.018	0.47

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4G + WLAN 5G + Zigbee + Bluetooth + WWAN = 0.934

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

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