

RF Exposure Report

Report No.: SA150127C26K

FCC ID: ZQANC111

Test Model: A00005

Series Model: A0005

Received Date: Sep. 27, 2018

Test Date: Jan. 25 ~ Feb. 15, 2019

Issued Date: Feb. 19, 2019

Applicant: Nest Labs Inc.

Address: 3400 Hillview Ave. Palo Alto California, United States 94304

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 /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
SA150127C26K	Original release.	Feb. 19, 2019

1 Certificate of Conformity

Product: Wireless Camera
Test Model: A00005
Series Model: A0005
Sample Status: Identical Prototype
Applicant: Nest Labs Inc.
Test Date: Jan. 25 ~ Feb. 15, 2019
Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1-1992

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.

Prepared by : Pettie Chen, **Date:** Feb. 19, 2019
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Feb. 19, 2019
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/cm ²)	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

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

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 Conducted Power

Frequency Band (MHz)	Maximum Target Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN 2412~2462	13.5	0	20	0.0045	1
WLAN 5180~5240	13.5	-1.5	20	0.0032	1
WLAN 5260~5320	14.5	-1.5	20	0.0040	1
WLAN 5500~5700	18.0	-1.5	20	0.0089	1
WLAN 5745~5825	15.5	-1.5	20	0.0050	1
BT LE 2402~2480	-2.5	0	20	0.0001	1

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