



A D T

RF Exposure Report

Report No.: SA150925E07B

FCC ID: PY316100338

Test Model: VMC3040S

Received Date: Sep. 25, 2015

Test Date: Oct. 23, 2015

Issued Date: Apr. 07, 2016

Applicant: NETGEAR, Inc.

Address: 350 East Plumeria Drive San Jose, CA 95134

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (1): E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.



Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits For Maximum Permissible Exposure (MPE).....	5
2.2 Mpe Calculation Formula	5
2.3 Classification	5
3 Calculation Result Of Maximum Conducted Power	6



A D T

Release Control Record

Issue No.	Description	Date Issued
SA150925E07B	Original release.	Apr. 07, 2016



1 Certificate of Conformity

Product: Arlo Q Plus
Brand: NETGEAR
Test Model: VMC3040S
Sample Status: ENGINEERING SAMPLE
Applicant: NETGEAR, Inc.
Test Date: Oct. 23, 2015
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 EMC characteristics under the conditions specified in this report.

Prepared by : Midoli Peng, **Date:** Apr. 07, 2016
Midoli Peng / Specialist

Approved by : May Chen, **Date:** Apr. 07, 2016
May Chen / 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/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**.

2.4 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Antenna No.	Transmitter Circuit	Brand	Model	Antenna Gain (dBi) including cable loss	Antenna Type	Connector Type	Frequency range (GHz to GHz)
1	Chain (0)	Netgear	NA	0.91	PIFA	NA	2.4~2.4835
				1.83			5.15~5.25
				1.91			5.25~5.35
				1.29			5.47~5.725
				2.12			5.725~5.85
2	Chain (1)	Netgear	NA	1.01	Monopole	NA	2.4~2.4835
				1.12			5.15~5.25
				1.91			5.25~5.35
				2.18			5.47~5.725
				2.27			5.725~5.85

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	562.159	3.97	20	0.27899	1
5180-5240	200.775	4.49	20	0.11232	1
5260-5320	196.592	4.92	20	0.12142	1
5470~5725	192.896	4.76	20	0.11483	1
5745-5825	182.872	5.21	20	0.12075	1

Note:

1. For 2412-2462MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 3.97\text{dBi}$
2. For 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.49\text{dBi}$
3. For 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.92\text{dBi}$
4. For 5470~5725MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 4.76\text{dBi}$
5. For 5745-5825MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.21\text{dBi}$

--- END ---