RF Exposure Report

Report No.:	SA200504D01-1
FCC ID:	K7SAUF001
Test Model:	AUF001
Received Date:	May 4, 2020
Test Date:	May 7 to Jun. 3, 2020
Issued Date:	Jun. 3, 2020
Applicant:	Belkin International, Inc.
Address:	12045 East Waterfront Drive, Playa Vista, CA. 90094, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / Designation Number:	198487 / TW2021

Testing Laboratory
2021

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Report Issue History Record

Issue No.	Description	Date Issued
SA200504D01-1	Original release.	Jun. 3, 2020

Release Control Record

Issue No.	Description	Date Issued
SA200504D01-1	Original release.	Jun. 3, 2020

1 Certificate of Conformity

Product:	BOOST↑CHARGE™ Wireless Charging Stand 10W + Speaker
Brand:	belkin
Test Model:	AUF001
Sample Status:	Engineering sample
Applicant:	Belkin International, Inc.
Test Date:	May 7 to Jun. 3, 2020
Standards:	FCC Part 2 (Section 2.1091) IEEE C95.3 -2002
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06

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 :  , **Date:** Jun. 3, 2020

Celia Chen / Supervisor

Approved by :  , **Date:** Jun. 3, 2020

Rex Lai / Associate Technical 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				
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/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 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
BT	2402 ~ 2480	0.24	-9.46	20	0.0000238	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The worst MPE result of Qi function, refer to BV CPS report no.: SA200504D01.

Conclusion:

The formula of calculated the MPE is:
CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1
CPD = Calculation power density
LPD = Limit of power density

BT + Qi = 0.0000238 / 1.00 + 0.5016 / 1.63 = 0.3078
Therefore the maximum calculations of above situations are less than the “1” limit.

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