



Test Report No.: FM2010WDG0259

# RF EXPOSURE REPORT

Applicant	Belkin International, Inc.
Address	12045 East Waterfront Drive, Playa Vista, CA 90094 USA

Manufacturer or Supplier	Belkin International, Inc.
Address	12045 East Waterfront Drive, Playa Vista, CA 90094 USA
Product	SOUNDFORM™ CONNECT Audio Adapter with AirPlay 2
Brand Name	belkin
Model	AUZ002
Additional Model & Model Difference	N/A
Date of tests	Nov. 25, 2020 ~ Dec. 07, 2020

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Lucas Chen  
Project Engineer / EMC Department

Approved by Glyn He  
Assistant Manager / EMC Department

Date: Jan. 28, 2021

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2010WDG0259	Original release	Jan. 28, 2021

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## 1. CERTIFICATION

<b>FCC ID:</b>	K7SAUZ002
<b>PRODUCT:</b>	SOUNDFORM™ CONNECT Audio Adapter with AirPlay 2
<b>BRAND NAME:</b>	belkin
<b>MODEL NO.:</b>	AUZ002
<b>ADDITIONAL NO.:</b>	N/A
<b>TEST SAMPLE:</b>	Engineering Sample
<b>APPLICANT:</b>	Belkin International, Inc.
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

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

where

Pd = power density in mW/cm<sup>2</sup>

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

## 4. 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**.

## 5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	5.24	FPC Antenna
Wi-Fi 5GHz (5150-5250MHz)	1.81	FPC Antenna
Wi-Fi 5GHz (5260-5320MHz)	1.32	FPC Antenna
Wi-Fi 5GHz (5500-5700MHz)	3.53	FPC Antenna
Wi-Fi 5GHz (5725-5850MHz)	3.53	FPC Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412-2462	12	+2	10	14
802.11g	2412-2462	9	+2	7	11
802.11n(HT20)	2412-2462	9	+2	7	11
Wi-Fi 5GHz(Band1)	5150-5250	12	+2	10	14
Wi-Fi 5GHz(Band2)	5260-5320	11	+2	9	13
Wi-Fi 5GHz(Band3)	5500-5700	11	+2	9	13
Wi-Fi 5GHz(Band4)	5725-5850	13	+2	11	15



The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2437	12.54
802.11g	2437	9.46
802.11n(HT20)	2437	9.68
Wi-Fi 5GHz(Band1)	5180	13.31
Wi-Fi 5GHz(Band2)	5260	12.03
Wi-Fi 5GHz(Band3)	5610	12.45
Wi-Fi 5GHz(Band4)	5775	14.24

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
Wi-Fi 2.4GHz	14	5.24	20	0.016700	1.0
Wi-Fi 5GHz(Band1)	14	1.81	20	0.007581	1.0
Wi-Fi 5GHz(Band2)	13	1.32	20	0.005379	1.0
Wi-Fi 5GHz(Band3)	13	3.53	20	0.008948	1.0
Wi-Fi 5GHz(Band4)	15	3.53	20	0.014182	1.0

The Wi-Fi 2.4GHz and 5GHz can not transmit simultaneously.

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