



# RF Exposure Evaluation Report

APPLICANT : NUVIZ Inc.  
EQUIPMENT : NUVIZ Controller  
BRAND NAME : NUVIZ  
MODEL NAME : C-101  
FCC ID : 2AKND-C101  
STANDARD : 47 CFR Part 2.1093  
FCC KDB 447498 D01 v06

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Manager

Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)



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## **Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA690301-01	Rev. 01	Initial issue of report	Mar. 24, 2017

**1. Administration Data**

<b>Testing Laboratory</b>	
<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

<b>Applicant</b>	
<b>Company Name</b>	NUVIZ Inc.
<b>Address</b>	1620 5th Ave., Suite 550, San Diego, CA 92101

<b>Manufacturer</b>	
<b>Company Name</b>	NUVIZ Inc.
<b>Address</b>	1620 5th Ave., Suite 550, San Diego, CA 92101



## 2. General Information

### 2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	NUVIZ Controller
Brand Name	NUVIZ
Model Name	C-101
FCC ID	2AKND-C101
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	Bluetooth LE
Antenna Gain	3.38dBi
Antenna Type	Metal Ring Antenna
HW Version	2000
SW Version	Street: 17090
DUT Stage	Production Unit

**Remark:** The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 3. Maximum RF output power among production units(Unit: dBm)

Mode / Band	Bluetooth
	LE
	(GFSK)
2.4GHz Bluetooth	0



#### **4. RF Exposure Evaluation**

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
0	1.00	5	2.48	0.31

**Note:**

1. Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq$  50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for}$$

1-g SAR and  $\leq$  7.5 for 10-g extremity SAR

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Conclusion:** Per KDB 447498 D01v06, when the minimum test separation distance is  $<$  5 mm, a distance of 5 mm is applied to determine hand SAR test exclusion. The test exclusion threshold is 0.31 which is  $\leq$  7.5, hand SAR testing is not required.