

RF Exposure Evaluation Report

FCC ID : 2AU2L-165253
Equipment : Aerobit SpiroLite, Aerobit PeakFlow⁺
Brand Name : Aerobit SpiroLite, Aerobit PeakFlow⁺
Model Name : 165221,165253
Applicant/ : Aerobit Labs Pvt Ltd
Manufacturer : 3rd Floor, Office No 303, Nyati Emporium,
Baner, Pune 411045, Maharashtra, India
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Oct. 14, 2019, and testing was started from Oct. 23, 2019 and completed on Nov. 07, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

Table of Contents

HISTORY OF THIS TEST REPORT	3
1. GENERAL DESCRIPTION	4
1.1. EUT General Information	4
1.2. Table for Multiple Listing	4
1.3. Testing Location Information.....	4
2. RF EXPOSURE EVALUATION	6
2.1. Applicable Standard	6
2.2. SAR evaluation.....	6

Photographs of EUT V01

HISTORY OF THIS TEST REPORT

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA992003	01	Initial issue of report	Dec. 20, 2019

Reviewed by: Ben Tseng

Report Producer: Yunha Liou

1. GENERAL DESCRIPTION

1.1. EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

1.2. Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Equipment Name	Brand Name	Model Name	Description
Aerobit SpiroLite	Aerobit SpiroLite	165221	All the models are identical, the difference model for different brand served and color as marketing strategy.
Aerobit PeakFlow ⁺	Aerobit PeakFlow ⁺	165253	

Specifications	Difference Between Peak Flow ⁺ and Spirolite.	
	PeakFlow ⁺	SpiroLite
Model No	165253	165221
PCB	Same	Same
Bill of Materials	Same	Same
Schematics	Same	Same
Circuit Diagram	Same	Same
Shape	Same	Same
Color	White and green combination	White and blue combination
Bluetooth technology	Same (BLE 4.2)	Same (BLE 4.2)
Turbine used	Same (Aerobit Turbine)	Same (Aerobit Turbine)
Mobile App	Same (Aerobit App)	Same (Aerobit App)
Type of metallic enclosure	No metallic enclosure	No metallic enclosure
Battery Voltage condition	Same (3V DC)	Same (3V DC)
Pictures		
Type of Output	Same (Bluetooth frequencies)	Specify (Bluetooth frequencies)
Usage Condition	Same (Home and Clinic use)	Same (Home and clinic use)
Environmental condition	Same (Ambient conditions)	Same (Ambient conditions)

1.3. Testing Location Information

Testing Location		
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		

2. RF EXPOSURE EVALUATION

2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2. SAR evaluation

- Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 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

Max. Power (dBm)	Gain (dBi)	Tolerance (dB)	Tune-up Max. Power (dBm)	Max. Power (mW)	Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
2.62	1.1	0.5	4.22	2.64	5	2.402	0.82

- Per FCC KDB 447498 D01 v06 exclusion thresholds is $0.82 < 7.5$, RF exposure evaluation is not required.

————THE END————