

RF Exposure Evaluation Report

APPLICANT: ShenZhen RiShengHua Technology Co., Ltd.

EQUIPMENT: Smart Tag

MODEL NAME : RSH-iTag02, BTTAG10WT

FCC ID : 2A9K2-ITAG02

STANDARD : 47 CFR PART 2.1093

FCC KDB 447498 D01 v06

The product evaluation date was started from Sep. 26, 2022 and completed on Sep. 26, 2022. We, Sporton International Inc. (Kunshan), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Approved by: Si Zhang

Si Zhang

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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Cert #5145.02

Report No.: FA2N1802

Report Version : Rev. 01

Report No. : FA2N1802

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA2N1802	Rev. 01	Initial issue of report	Dec. 16, 2022

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1. Administration Data

1.1. <u>Testing Laboratory</u>

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

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Testing Laboratory			
Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 FAX: +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-KS	CN1257	314309

	Applicant
Company Name	ShenZhen RiShengHua Technology Co., Ltd.
Address	Floor 2, building E1, qianrong East Industrial Zone, No. 723, Zhoushi Road, Jiuwei community, Hangcheng street, Bao'an District, Shenzhen

Manufacturer Manufacturer		
Company Name	ShenZhen RiShengHua Technology Co., Ltd.	
Address	Floor 2, building E1, qianrong East Industrial Zone, No. 723, Zhoushi Road, Jiuwei community, Hangcheng street, Bao'an District, Shenzhen	

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2. Description of Equipment Under Test (EUT)

Product Feature & Specification			
EUT Type	Smart Tag		
Model Name	RSH-iTag02, BTTAG10WT		
FCC ID	2A9K2-ITAG02		
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz		
Mode	Bluetooth LE		
Antenna Type	Bluetooth : PCB Antenna		
Antenna Gain	Bluetooth: gain 0 dBi		
HW Version	V1.0.2		
SW Version	V1.0.0		
EUT Stage	Identical Prototype		

Remark:

Comments and Explanations:

- The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
- 2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

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



3. Maximum RF Tune Up power among production units

<Bluetooth>

Mode	Maximum Average Power (dBm)	
Bluetooth LE	4.50	

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4. RF Exposure Evaluation

Mode	Maximum Average Power (dBm)
Bluetooth LE	4.50

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* ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- f(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

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
4.5	< 5	2.48	0.9

Conclusion:

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.8 which is \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, 1-g SAR and extremity SAR testing is not required, and complied with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for 1g SAR and 4.0 W/kg for extremity SAR) specified in FCC 47 CFR part 2 (2.1093).

----THE END-----

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