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Report Template Version: V04
Report Template Revision Date: 2018-07-06

RF Exposure Evaluation Report

Report No.:	CQASZ20210600821E-02
Applicant:	Star Atmosphere Technology (Shenzhen) Co., LTD
Address of Applicant:	Room 2706A, Block A, Sunshine TDI Building, Nanshan District, Shenzhen 518000, China
Equipment Under Test (EUT):	
EUT Name:	WOLONOW Smart Dual-Mode Jumping Rope
Model No.:	SRS-3.0
Brand Name:	WOLONOW
FCC ID:	2AZSZ-SRS-3
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2021-06-04
Date of Test:	2021-06-04 to 2021-06-18
Date of Issue:	2021-06-18
Test Result:	**PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: lewis zhou

(Lewis Zhou)

Reviewed By: Jun Li

(Jun Li)

Approved By:

(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210600821E-02	Rev.01	Initial report	2021-06-18

2 Contents

3 General Information

3.1 Client Information

Applicant:	Star Atmosphere Technology (Shenzhen) Co., LTD
Address of Applicant:	Room 2706A, Block A, Sunshine TDI Building, Nanshan District, Shenzhen 518000, China
Manufacturer:	Star Atmosphere Technology (Shenzhen) Co., LTD
Address of Manufacturer:	Room 2706A, Block A, Sunshine TDI Building, Nanshan District, Shenzhen 518000, China
Factory:	Star Atmosphere Technology (Shenzhen) Co., LTD
Address of Factory:	Room 2706A, Block A, Sunshine TDI Building, Nanshan District, Shenzhen 518000, China

3.2 General Description of EUT

Product Name:	WOLONOW Smart Dual-Mode Jumping Rope
Model No.:	SRS-3.0
Trade Mark:	WOLONOW
Hardware Version:	V1.2
Software Version:	V1.4
Operation Frequency:	2402MHz~2480MHz
Version:	2.4G custom
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	TG71XX Programmer
Antenna Type:	Chip antenna
Antenna Gain:	0 dBi
EUT Power Supply:	lithium battery: DC3.7V, 500mAh, Charge by DC5V

.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.12	1.5±1	2.5	1.778
Middle(2440MHz)	1.03	0.5±1	1.5	1.412
Highest(2480MHz)	-1.46	-2±1	-1	0.794

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	2.12	1.5±1	2.5	1.778	0.551	3.0
Middle (2440MHz)	1.03	0.5±1	1.5	1.412	0.441	
Highest (2480MHz)	-1.46	-2±1	-1	0.794	0.250	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.:CQASZ20210600821E-01