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RF Exposure Evaluation Report

Report No.:	CQASZ20210400549E-03
Applicant:	Shenzhen Leaderment Technology Co.,Ltd
Address of Applicant:	1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longguan West Road , Gaofeng Community, Dalang Street, Longhua District, Shenzhen
Equipment Under Test (EUT):	
EUT Name:	Selfie Stick Tripod
Model No.:	ATSS082, ATSS084, ATSS091, ATSS092, ATSS093, ATSS094, ATSS095, ATSS096, ATSS097, ATSS098
Test Model No.:	ATSS082
Brand Name:	ATUMTEK
FCC ID:	2ASUP- ATSS082
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2021-04-26
Date of Test:	2021-04-26 to 2021-05-24
Date of Issue:	2021-05-24
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: Sheek.Luo

(Sheek luo)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210400549E-03	Rev.01	Initial report	2021-05-24

2 Contents

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Leaderment Technology Co.,Ltd
Address of Applicant:	1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, Shenzhen
Manufacturer:	Shenzhen Leaderment Technology Co.,Ltd
Address of Manufacturer:	1st Floor, Building 24, Longcheng Industrial Zone, No. 39 Longguan West Road, Gaofeng Community, Dalang Street, Longhua District, Shenzhen
Factory:	Shenzhen Yuansu Chuangda Technology Co.,Ltd
Address of Factory:	Room 533, Huamei Building, Zhenxing Road, Futian District, Shenzhen City

3.2 General Description of EUT

Product Name:	Selfie Stick Tripod
Model No.:	ATSS082, ATSS084, ATSS091, ATSS092, MATSS093, ATSS094, ATSS095, ATSS096, ATSS097, ATSS098
Test Model No.:	BFSITO-260
Trade Mark:	WOLONOW
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	Lekit_200927.exe (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	-3.01 dBi
EUT Power Supply:	DC3.3V

Note:

All model: ATSS082, ATSS084, ATSS091, ATSS092, MATSS093, ATSS094, ATSS095, ATSS096, ATSS097, ATSS098

Only the model ATSS082 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.

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(1Mbps**)**

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.11	0±1	1	1.259
Middle(2440MHz)	0.80	0±1	1	1.259
Highest(2480MHz)	1.06	0.5±1	1.5	1.413

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)	0.11	0±1	1	1.259	0.390	3.0
Middle (2440MHz)	0.80	0±1	1	1.259	0.393	
Highest (2480MHz)	1.06	0.5±1	1.5	1.413	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210400549E-01

2) For BLE(2Mbps)

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.29	0±1	1	1.259
Middle(2440MHz)	0.93	0±1	1	1.259
Highest(2480MHz)	1.21	0.5±1	1.5	1.413

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)	0.29	0±1	1	1.259	0.390	3.0
Middle (2440MHz)	0.93	0±1	1	1.259	0.393	
Highest (2480MHz)	1.21	0.5±1	1.5	1.413	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210400549E-02