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RF Exposure Evaluation Report

Report No. : CQASZ20190300004EX-02
Applicant: SHENZHEN SHINYLOAM ELECTRONICS CO.,LTD
Address of Applicant: No.22, Kukeng Dafu industry zone, Kukeng Community, Guanlan Street, Longhua, Shenzhen, China, 518110
Manufacturer: SHENZHEN SHINYLOAM ELECTRONICS CO.,LTD
Address of Manufacturer: No.22, Kukeng Dafu industry zone, Kukeng Community, Guanlan Street, Longhua, Shenzhen, China, 518110
Equipment Under Test (EUT):
Product: Handheld Gimbal Stabilizer
Model No.: SG TRANS, SG6, H2, SGPro, SGMpro, SG5, SG9, SGAPRO
Test Model No.: SG TRANS
Brand Name: SHINYLOAM
FCC ID: 2ASVY-SGTS
Standards: 47 CFR Part 15, Subpart C
Date of Test: 2019-03-19 to 2019-03-28
Date of Issue: 2019-03-28
Test Result : PASS*

Tested By:

Daisy Qin

(Daisy Qin)

Reviewed By:

Aaron Ma

(Aaron Ma)

Approved By:

Jack Ai

(Jack Ai)



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

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190300004EX-02	Rev.01	Initial report	2019-03-28

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN SHINYLOAM ELECTRONICS CO.,LTD
Address of Applicant:	No.22, Kukeng Dafu industry zone, Kukeng Community, Guanlan Street, Longhua, Shenzhen, China, 518110
Manufacturer:	SHENZHEN SHINYLOAM ELECTRONICS CO.,LTD
Address of Manufacturer:	No.22, Kukeng Dafu industry zone, Kukeng Community, Guanlan Street, Longhua, Shenzhen, China, 518110

3.2 General Description of EUT

Product Name:	Handheld Gimbal Stabilizer
All Model No.:	SG TRANS, SG6, H2, SGPro, SGMpro, SG5, SG9, SGapro
Test Model No.:	SG TRANS
Trade Mark:	SHINYLOAM
Hardware Version:	V1.3
Software Version:	V1.0
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	lithium battery:DC3.7V, Charge by USB

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0/ble
Modulation Type:	GFSK
Number of Channel:	40
Test Software of EUT:	Bluetooth RF test Tool (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})^2} \right] \leq \begin{cases} 3.0 & \text{for 1-g SAR} \\ 7.5 & \text{for 10-g extremity SAR} \end{cases}$$
where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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					
Channel	Maximum Peak Conducted Output Power (dBm)	Tune-up Power		Calculated value	Exclusion threshold
		(dBm)	(mW)		
Lowest (2402MHz)	0.333	0.5	1.122	0.35	3.0
Middle (2440MHz)	0.257	0.5	1.122	0.35	
Highest (2480MHz)	0.209	0.5	1.122	0.35	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.					

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190300004EX-01