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RF Exposure Evaluation Report

Report No. : CQASZ20200500012EX-02

Applicant: Steady Aim Technologies (Pty) Ltd

Address of Applicant: Unit 28, Everglades, 132 Prospect Hall Road Durban North,Durban,Kwazulu-Natal, South Africa

Equipment Under Test (EUT):

Product: Steady Aim A1

Model No.: SA-01

Brand Name: N/A

FCC ID: 2A7L7-SA01

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2022.06.24 - 2022.06.30

Date of Issue: 2022-07-05

Test Result : PASS*

Tested By:

Tom Chen.

(Tom Chen)

Reviewed By:

Aaron Ma

(Aaron Ma)

Approved By:

Jack Ai



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

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200500012EX-02	Rev.01	Initial report	2022-07-05

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3 General Information

3.1 Client Information

Applicant:	Steady Aim Technologies (Pty) Ltd
Address of Applicant:	Unit 28, Everglades, 132 Prospect Hall Road Durban North,Durban,Kwazulu-Natal,South Africa
Manufacturer:	MOKO TECHNOLOGY Ltd
Address of Manufacturer:	107 Pinshun Rd, Guixiang Community, Guanlan Street, Longhua, Shenzhen, China 518110
Factory:	MOKO TECHNOLOGY Ltd
Address of Factory:	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110

3.2 General Description of EUT

Product:	Steady Aim A1
Model Number:	SA-01
Power supply:	<input checked="" type="checkbox"/> DC 3.7V <input type="checkbox"/> Adapter information
Modulation:	BLE
Frequency Range:	2402MHz~2480MHz
Number of Channels:	40channels
Channel Space:	1MHz
Antenna Gain:	0dBi
Antenna:	Ceramic Antenna
Temperature Range:	0°C ~ +45°C

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:

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

$f(\text{GHz})$ 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

Operation Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.74	1±1	2	1.585	0.49	3.0
Middle (2440MHz)	3.56	3±1	4	2.511	0.78	
Highest (2480MHz)	4.08	3±2	5	3.162	1.00	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90513-22-72-22-PP001