

> Report No.: SZEM200900986803 Page: 1 of 6

## SAR Evaluation Report

Application No.:	SZEM2009009868CR	
Applicant:	SARIANA LLC	
Address of Applicant:	7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA	
Manufacturer:	SARIANA LLC	
Address of Manufacturer:	7365 Mission Gorge Road, Suite G, San Diego, CA 92120, USA	
Factory:	GUANGDONG SENEASY INTELLIGENT TECHNOLOGY CO., LTD	
Address of Factory:	No. 63, Huitai Industrial Park, Huicheng District, Huizhou City, Guangdong, China 516006	
Equipment Under Test (EUT):		
EUT Name:	R2 Bluetooth Multimedia Remote Control	
Model No.:	ST-BTMR2M	
Trade mark:	SATECHI	
FCC ID:	ZE9-ST-BTMR2M	
Standards:	47 CFR Part 1.1307	
	47 CFR Part 2.1093	
	KDB447498D01 General RF Exposure Guidance v06	
Date of Receipt:	2020-09-29	
Date of Test:	2020-10-10 to 2020-10-13	
Date of Issue:	2020-10-20	
Test Result :	Pass*	

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

Keny. Ku

Keny Xu EMC Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation on ilability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not excore the reproduced except in full, without prior written approval of the Company. Any unathorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extend of the law. Unless stated the respective to approximate the sample(s) low a realized for 30 days only. except in four, which provide the sunlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the fullest extent of the locument is unlawful and offenders may be prosecuted to the sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone (86-755) 8307 1443, Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone (86-755) 8307 1443, Attention: To check the authenticity of testing visual actions are an extender of the sample (80-755) 8307 1443, Attention: To check the authenticity of testing visual actions are an extender of te No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 · 深圳 · 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

Member of the SGS Group (SGS SA)

sgs.china@sgs.com



Report No.: SZEM200900986803 Page: 2 of 6

## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-10-20		Original

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Aftention: To Check the authenticity of testing /inspection report & certificate, please contact us at leiphone: (86-755) 8307 1443, or email: (CN\_Doccheck@egs.com)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 ·深圳 ·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



Report No.: SZEM200900986803 Page: 3 of 6

## 3 Contents

#### Page

1 C	COVER PAGE	
2 V		
3 C		
4 G	GENERAL INFORMATION	
4.1	GENERAL DESCRIPTION OF EUT	4
4.2	TEST LOCATION	5
4.3	TEST FACILITY	
4.4	DEVIATION FROM STANDARDS	5
4.5	ABNORMALITIES FROM STANDARD CONDITIONS	5
4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
5 S	SAR EVALUATION	-
5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	6
5	5.1.1 Standard Requirement	6
5	5.1.2 Limits	
5	5.1.3 EUT RF Exposure	6



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: **CN\_Doccheck@egs.com** 

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 ·深圳 ·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



Report No.: SZEM200900986803 Page: 4 of 6

## 4 General Information

## 4.1 General Description of EUT

Power Supply:	Rechargeable battery DC3.7V,200mAh, Charged by DC5V
Cable:	Type-C Cable:25cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	BLE V5.0
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Data rate:	1Mb/s
Antenna Type:	Integral
Antenna Gain:	-9.9dBi



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excenter the company's findings at the transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) test retaint of 30 days only. Attention. To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755)8307 1443, or email: CN.Doccheck@ags.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 ·深圳 ·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



Report No.: SZEM200900986803 Page: 5 of 6

## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



中国·深圳·科技园中区M-10栋一号厂房邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: SZEM200900986803 Page: 6 of 6

## 5 SAR Evaluation

## 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  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<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  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

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 2.17 dBm on the middle channel 2.44 GHz (\*) 2.17 dBm logarithmic terms convert to numeric result is nearly 1.65 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot$  [vf(GHz)]

General RF Exposure = (1.65 mW / 5 mm) x $\sqrt{2.44}$ GHz = 0.52	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	
So the SAR report is not required	

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM200900986802

#### - End of the Report -



	Unless otherwise agreed in writing, this document is issued by the overleaf, available on request or accessible at http://www.sgs.com/en/ subject to Terms and Conditions for Electronic Documents at http://w Attention is drawn to the limitation of liability, indemnification and juri advised that information contained hereon reflects the Company's find Client's instructions, if any. The Company's sole responsibility is to transaction from exercising all their rights and obligations under the except in full, without prior written approval of the Company. Any un appearance of this document is unlawful and offenders may be prosec results shown in this test report refer only to the sample(s) tested and su Attention. To check the authenticity of testing linspection report &	Terms-and-Conditions.aspx and, for electronic format documents, www.gas.com/en/Terms-and-Conditions/Terms-e-Document.aspx. sdiction issues defined therein. Any holder of this document is tils Client and this document does not exonerate parties to a transaction documents. This document cannot be reproduced authorized alteration, forgery or falsification of the content or uted to the fullest extent of the law. Unless otherwise stated the ch sample(s) are retained for 30 days only.
	or email: <u>CN.Doccheck@sgs.com</u>	
.td.	d. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057	t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn
	中国·深圳・科技园中区M-10栋一号厂房 邮编: 518057	t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com