

198 Kezhu Road, Scientech Park, Guangzhou Economic & Technological

Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555 Report No.: GZEM190501301502

Fax: +86 (0) 20 82075059 Page: 1 of 11 Email: ee.guangzhou@sgs.com

# TEST REPORT

Application No.: GZEM1905013015CR

Applicant: SEIKO WATCH CORPATION

Address of Applicant: 26-1, Ginza 1-Chome, Chuo-ku, Tokyo 104-8118, Japan

Manufacturer: SEIKO WATCH CORPATION

Address of Manufacturer: 26-1, Ginza 1-Chome, Chuo-ku, Tokyo 104-8118, Japan

Factory: Guangzhou SII Watch Co.,Ltd

Address of Factory: 101, Building A,No.08 Nanyun 5th Road, Huangpu District, Guangzhou,

Guangdong, China

**Equipment Under Test (EUT):** 

EUT Name: WATCH

Model No.: N855-KME0, N851-KNE0, N851-KLE0, N855, N851. ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Wired, Mackintosh Philosophy

**Standard(s):** 47 CFR Part 1.1307, Part 2.1093, KDB 447498

**Date of Receipt:** 2019-05-23

**Date of Test:** 2019-05-29 to 2019-06-03

**Date of Issue:** 2019-10-08

Test Result: Pass\*

Kobe Jian Lab Manager

Kishe Timo

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



检验检测专用章 spection & Testing Services

# SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Revision Record							
Version Chapter Date Modifier Remark							
01		2019-10-08		Original			

Authorized for issue by:		
Tested By	Curry_Wu /Project Engineer	2019-05-29 to 2019-06-03  Date
Checked By	Riday Liu	2019-06-05
	Ricky_Liu /Reviewer	Date

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\*\*Mysterium Reduction (Simple Store) (Simple

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#### **Test Summary** 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass		

### **¤** Declaration of EUT Family Grouping:

Model No.: N855-KME0, N851-KNE0, N851-KLE0, N855, N851

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name, trademark, watch strap shape, Number and shape of buttons and the below table:

Model	Slingshot	Buzzer	Alarm clock
N851-KNE0, N851-KLE0, N851	<b>√</b>	<b>√</b>	<b>√</b>
N855-KME0, N855			

Therefore only one model N851-KNE0 was tested in this report.



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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply: DC 3V built-in battery

Test Voltage: DC 3V Antenna Gain 1.3dBi

Antenna Type Integral Antenna

Channel Spacing 2MHz
Modulation Type GFSK
Number of Channels 40

Operation Frequency 2402MHz to 2480MHz

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

RF

No.	ltem	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 <sup>-8</sup>
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
	nr nadiated rowei	±4.8dB (above 1GHz)
8	Padiated Spurious Emission Tost	±4.5dB (30MHz-1GHz)
0	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	12 Time ±3%	

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### 4.4 Test Location

All tests were performed at:

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No tests were sub-contracted.



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### 4.5 Test Facility

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

#### ● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

#### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

#### ● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

#### ● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

### ◆FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

#### ● Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### ● VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

#### ● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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# 5 Equipment List

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Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EXA Signal Analzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18	
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03	
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A	

General used equipment						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19	
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18	



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## 6 Radio Spectrum Technical Requirement

### 6.1 RF Exposure

#### 6.1.1 Test Requirement:

The product belongs to **standalone portable device** base the FCC rule part 2.1091&2.1093. The transmission frequencies of the device are between 100 MHz and 6 GHz. The worst case test separation distance is **5mm**.

The Max Conducted Output Power and SAR Test Exclusion Threshold (mW) are listed below:

The Max Conducted Peak Output Power is -3.231 dBm on the lowest channel 2.44 GHz

-3.231 dBm logarithmic terms convert to numeric result is nearly 0.48 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/

(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure =  $(0.48 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.44 \text{ GHz}} = 0.15$  (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

The SAR Test Exclusion Threshold for 100 MHz to 6 GHz is calculated from:

1) 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)] ·

 $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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

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.

According to SAR Exclusion Threshold in KDB 447498 (D01) General RF Exposure Guidance v06, the SAR report is not required.



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#### 7 **Photographs**

### 7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1905013015CR.

-- End of Report--



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