

# EMF TEST REPORT

For

**Electronic thermometer**

**Model Number: RIT-P02-MED, RIT-P02-RR, RIT-P02-RS, RIT-P02-MM,  
RIT-P02-R1**

**FCC ID: 2ASVA-RIT-P02**

**Report Number : WT198001433**

Test Laboratory : Shenzhen Academy of Metrology and Quality  
Inspection

Site Location : NETC Building, No.4 Tongfa Rd., Xili, Nanshan,  
Shenzhen, China

Tel : 0086-755-86928965

Fax : 0086-755-86009898-31396

Web : [www.smq.com.cn](http://www.smq.com.cn)

E-mail : [emcrf@smq.com.cn](mailto:emcrf@smq.com.cn)

## TEST REPORT DECLARATION

Applicant : Shenzhen Refresh Intelligent Technology Co., Ltd.  
Address : 83D302A,3rd FL, Tianjing BLDG, TianAn CheGongMiao  
Industrial Pk, XiangMiHu, Futian DIST., Shenzhen, China  
Manufacturer : Shenzhen Refresh Intelligent Technology Co., Ltd.  
Address : 83D302A,3rd FL, Tianjing BLDG, TianAn CheGongMiao  
Industrial Pk, XiangMiHu, Futian DIST., Shenzhen, China  
EUT Description : Electronic thermometer  
Model No : RIT-P02-MED, RIT-P02-RR, RIT-P02-RS, RIT-P02-MM,  
RIT-P02-R1  
Trade mark : Ritsigns  
Serial Number : /  
FCC ID : 2ASVA-RIT-P02

Test Standards:

### FCC Part 2.1091 (2016)

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project  
Engineer:

  
(Zhou Li 周立)

Date: Sep 19, 2019

Checked by:

  
(Lin Yi Xiang 林奕翔)

Date: Sep 19, 2019

Approved by:

  
(Lin Bin 林斌)

Date: Sep 19, 2019

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## 1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
RF Exposure	Pass

Remark: “ N/A” means “ Not applicable.”

## **2. GENERAL INFORMATION**

### **2.1. Report information**

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

### **2.2. Laboratory Accreditation and Relationship to Customer**

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

### 3. PRODUCT DESCRIPTION

#### 3.1.EUT Description

Table 2 Specification of the Equipment under Test

Product Type:	Electronic thermometer
Hardware Version:	V2.0
Software Version :	V2.0
FCC ID:	2ASVA-RIT-P02
Frequency:	BT:2402MHz-2480MHz;
Type(s) of Modulation:	Bluetooth : GFSK
Antenna Type:	BT: Internal Antenna 0dBi
Operating voltage:	2.0V (Low)/3.0V (Nominal)/ 3.6V (Max)
Remark	All of the model' s circuit theory, electrical design and the Critical Components are identical only except the color and appearance. The differences do not affect the EMC performance .Unless otherwise specified; the model RIT-P02-MED was chose to perform all the tests.

## 4. RF EXPOSURE

### 4.1.TEST METHODOLOGY

The RF output of EUT was connected to the power meter by RF cable and attenuator. The pathloss was compensated to the results for each measurement.

### 4.2.FCC RULES

According to 447498 D01 General RF Exposure Guidance v05

For minimum test separation distance  $\leq 50\text{mm}$ , Wifi standalone SAR test exclusion power threshold is determined by:  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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 calculation
- The result is rounded to one decimal place for comparison

### 4.3.POWER Result

BT worse case is 2480MHz : -0.63 dBm ( 0.86mW )

Then  $(0.86 \text{ mW}/5\text{mm}) \times \sqrt{2.48} = 0.11 < 3$

So SAR evaluation is not applicable

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