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# RF Exposure Evaluation Report

Product : HANDSET

Trade mark : Richmat

Model/Type reference : HJH173 Ble

Serial Number : N/A

Report Number : EED32N80428902 FCC ID : 2AJJGHJ8258

Date of Issue : Jun. 09, 2021

: 47 CFR Part 1.1307

Test Standards 47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Test result : PASS

Prepared for:

Qingdao Richmat Intelligence Technology Inc NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Martin Lee

Reviewed by:

Aaron Ma

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Date:

Jun. 09, 2021

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# 2 Version

Version No.	Date	//	Description	9
00	Jun. 09, 2021		Original	
5)	(3)	6,	(6)	6.











































































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### **General Information**

### 4.1 Client Information

Applicant:	Qingdao Richmat Intelligence Technology Inc
Address of Applicant:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China
Manufacturer: Qingdao Richmat Intelligence Technology Inc	
Address of Manufacturer:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China
Factory: Qingdao Richmat Intelligence Technology Inc	
Address of Factory:	NO. 78 Kongquehe 4th Road Qingdao Clothing Industry park Jimo, Qingdao, Shandong Province 266000, China

## 4.2 General Description of EUT

Product Name:	HANDSET		
Model No.(EUT):	HJH173 Ble		
Trade Mark:	Richmat	$(S_{F_s})$	(6
EUT Supports Radios application:	2402MHz~2480MHz		

#### 4.3 Product Specification subjective to this standard

_ (6.7)	162		
Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Test Power Grade:	Default		
Test Software of EUT:	EMI_TEST_v1.5		
Antenna Type:	PCB Antenna		
Antenna Gain:	3dBi		
Power Supply:	3*AAA Battery		
Test Voltage:	DC 4.5V		
May Canduated Dook	BT5.0: 2.193dBm		
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32N80428901		
Sample Received Date:	June 1, 2021		
Sample tested Date:	June 1, 2021 to June 4, 2021		
Company Name and Addre	and shown on Depart, the complete) and complete information was twee		

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. The report modified the product name.























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### 4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

#### 4.5 Deviation from Standards

None.

### 4.6 Abnormalities from Standard Conditions

None.

# 4.7 Other Information Requested by the Customer

None





















































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#### 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 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.

#### 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:

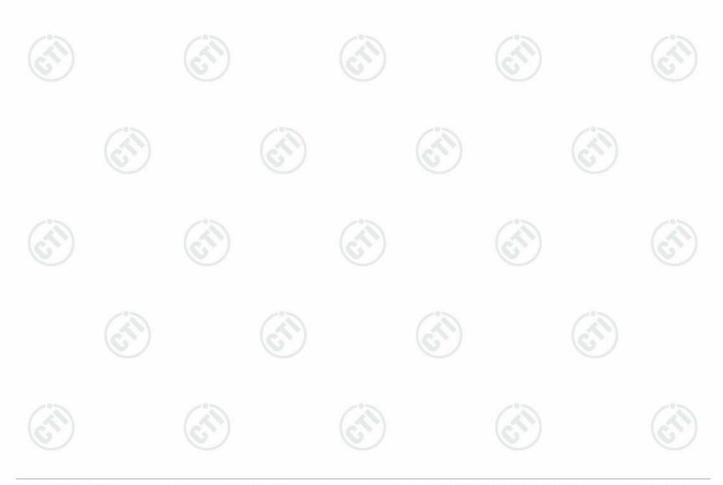
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\sqrt{f(GHz)} \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<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  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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#### 5.1.2 EUT RF Exposure

The tune-up power is 2 dBm +/- 0.5dB, therefore the highest tune-up power is

2.5 dBm (1.78 mW) @ 2480 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

 $(1.78 \text{mW} / 5 \text{mm}) * (2.480 \text{GHz} ^0.5) = 0.6$ 

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \*  $[\sqrt{f(GHz)}] = 0.6 < 3.0$ 

Therefore, standalone SAR measurements are not required for both head and body



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# **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32N80428901 for EUT external and internal photos.

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