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# RF Exposure Evaluation Report

**Product** Infrared Ear Thermometer

Trade mark Joytech

Model/Type reference : DET-1013b

Serial Number N/A

**Report Number** EED32M00348602

FCC ID : 2AQVU0012 Date of Issue : Feb. 24, 2021

47 CFR Part 1.1307 **Test Standards** 

47 CFR Part 1.1310

KDB447498D01 General RF Exposure

Guidance v06

**PASS** Test result

#### Prepared for:

JOYTECH HEALTHCARE CO., LTD No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou, China

Prepared by:

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Ken Cai

Reviewed by:

Aaron Ma

Date:

Feb. 24, 2021

Check No.: 4538044882







# 2 Version

Version No.	Date	6	Description	9
00	Feb. 24, 2021		Original	
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# **General Information**

## 4.1 Client Information

Applicant:	JOYTECH HEALTHCARE CO., LTD	
Address of Applicant:	No.365,Wuzhou Road, Yuhang Economic Development Zone, Hangzhou , China	
Manufacturer: JOYTECH HEALTHCARE CO., LTD		
Address of Manufacturer:	No.365,Wuzhou Road, Yuhang Economic Development Zone, Hangzhou , China	
Factory: JOYTECH HEALTHCARE CO., LTD		
Address of Factory:  No.365, Wuzhou Road, Yuhang Economic Development Z		

## 4.2 General Description of EUT

Product Name:	Infrared Ear	Thermometer		
Model No.(EUT):	DET-1013b		(3)	
Trade Mark:	Joytech	(62)	(3/2)	(%)
EUT Supports Radios application:	5.0(BLE)			//

## 4.3 Product Specification subjective to this standard

	1 NO. 71		
Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Test Power Grade:	Default		
Test Software of EUT:	PhyPlusKit		
Antenna Type:	integral antenna		
Antenna Gain:	0 dBi		
Power Supply:	DC 3.0V		
Max Conducted Peak Output Power:	BT4.0: -1.59dBm		
	The Max Conducted Peak Output Power data refer to the report EED32M00348601		
Sample Received Date:	Dec. 29, 2020		
Sample tested Date:	Dec. 29, 2020 to Jan. 15, 2021		
	·		

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.























#### 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

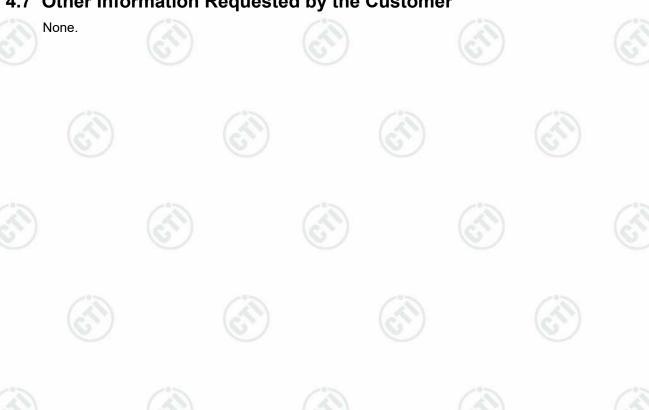
## 4.5 Deviation from Standards

None.

## 4.6 Abnormalities from Standard Conditions

None.

## 4.7 Other Information Requested by the Customer





www.cti-cert.com E-mail: info@cti-cert.com



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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:

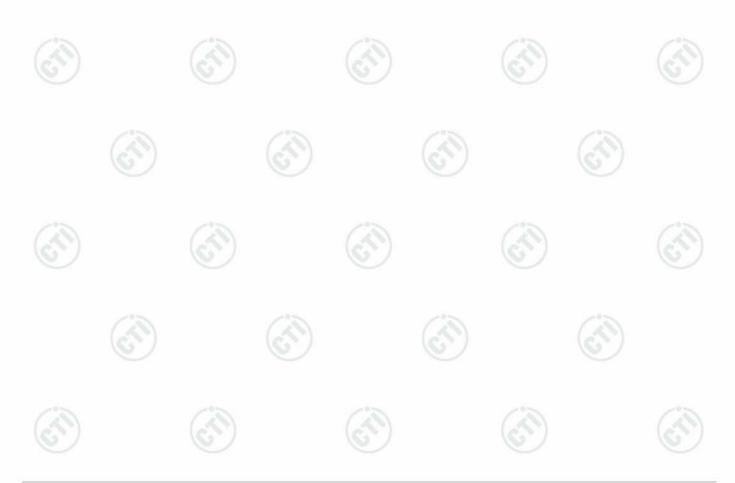
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\sqrt{f(GHz)} \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

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

Power and distance are rounded to the nearest mW and mm before calculation 17

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 -1.5 dBm +/- 0.5dB, therefore the highest tune-up power is

#### -1.0dBm (0.79mW) @2402 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,

#### (0.79mW / 5mm) \* (2.402GHz^0.5)=0.24

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \*  $[\sqrt{f(GHz)}] = 0.24 < 3.0$ 

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. EED32M00348601 for EUT external and internal photos.

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