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RF Exposure Evaluation Report

Product Infrared Forehead Thermometer

Trade mark Joytech

Model/Type reference : DET-3010b

Serial Number N/A

Report Number EED32M00320902

FCC ID 2AQVU0007 Date of Issue Jan. 14, 2021

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Test result **PASS**

Prepared for:

JOYTECH HEALTHCARE CO., LTD No.365, Wuzhou Road, Yuhang Economic DevelopmentZone, Hangzhou City, Zhejiang, China

Prepared by:

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

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2 Version

Version No.	Date	6	Description	9
00	Jan. 14, 2021		Original	
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4 General Information

4.1 Client Information

Applicant: JOYTECH HEALTHCARE CO., LTD	
Address of Applicant: No.365, Wuzhou Road, Yuhang Economic Development Hangzhou City, Zhejiang, China	
Manufacturer: JOYTECH HEALTHCARE CO., LTD	
Address of Manufacturer: No.365, Wuzhou Road, Yuhang Economic Developmen Hangzhou City, Zhejiang, China	
Factory: JOYTECH HEALTHCARE CO., LTD	
Address of Factory: No.365, Wuzhou Road, Yuhang Economic DevelopmentZo Hangzhou City, Zhejiang, China	

4.2 General Description of EUT

Product Name:	Infrared Fore	ehead Thermometer		
Model No.(EUT):	DET-3010b		(3)	
Trade Mark:	Joytech			(S)
EUT Supports Radios application:	5.0(BLE)			/

4.3 Product Specification subjective to this standard

2402MHz~2480MHz				
GFSK				
Default				
PhyPlusKit				
PCB Antenna				
0dBi				
DC 3.3V				
BT5.0: 2.908dBm				
The Max Conducted Peak Output Power data refer to the report EED32M00320901				
Nov. 01, 2020				
Nov. 01, 2020 to Nov. 17, 2020				

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.















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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

4.7 Other Information Requested by the Customer















































































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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:

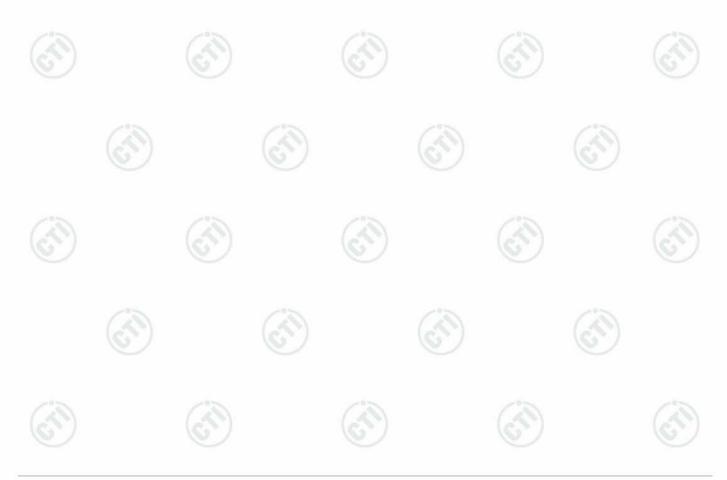
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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 2.5 dBm +/- 0.5dB, therefore the highest tune-up power is 3.0 dBm (2.00 mW) @ 2440 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,

 $(2.00 \text{mW} / 5 \text{mm}) * (2.440 \text{GHz} ^0.5) = 0.6$

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

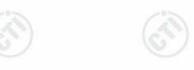
Therefore, standalone SAR measurements are not required for both head and body



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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00320901 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.











