

Report No.: EED32M00322002 Page 1 of 8

RF Exposure Evaluation Report

Product : Infrared Forehead Thermometer

Trade mark : Joytech

Model/Type reference : DET-306b

Serial Number : N/A

Report Number : EED32M00322002

FCC ID : 2AQVU0006

Date of Issue : Feb. 04, 2021

Test Standards : 47 CFR Part 1.1307

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:

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Feb. 04, 2021

Check No.: 3970317134









Report No.: EED32M00322002

Page 2 of 8

2 Version

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Report No.: EED32M00322002

Page 3 of 8

3 Contents

								Page
1 COVER F	PAGE	•••••	•••••	•••••	•••••	••••••	•••••	1
				•••••				
4.2 GENE 4.3 PROD 4.4 TEST 4.5 DEVI 4.6 ABNO	ERAL DESIDUCT SPE LOCATION FRO DRMALITIE	CRIPTION OF E CIFICATION SU N DM STANDARD S FROM STANI	EUT IBJECTIVE TO T S DARD CONDITI	THIS STANDARE)			
5 SAR EVA	ALUATIO	N	•••••		•••••	•••••	•••••	
5.1.1	Standard	Requirement	t	т				6
PHOTOGR	RAPHS O	F EUT CONS	TRUCTIONA	L DETAILS				8





General Information

4.1 Client Information

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

4.2 General Description of EUT

Product Name:	Infrared Forel	head Thermometer		
Model No.(EUT):	DET-306b			
Trade Mark:	Joytech		(6,7)	(6)
EUT Supports Radios application:	5.0(BLE)			

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz			
Modulation Type:	GFSK			
Test Power Grade:	Default			
Test Software of EUT:	PhyPlusKit			
Antenna Type:	PCB antenna			
Antenna Gain:	0 dBi			
Power Supply:	DC 3.0V			
May Orandonta d Danie	BT4.0: -4.67dBm			
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32M00322001			
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.





















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Report No.: EED32M00322002

Page 5 of 8

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

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



None

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



















































































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:

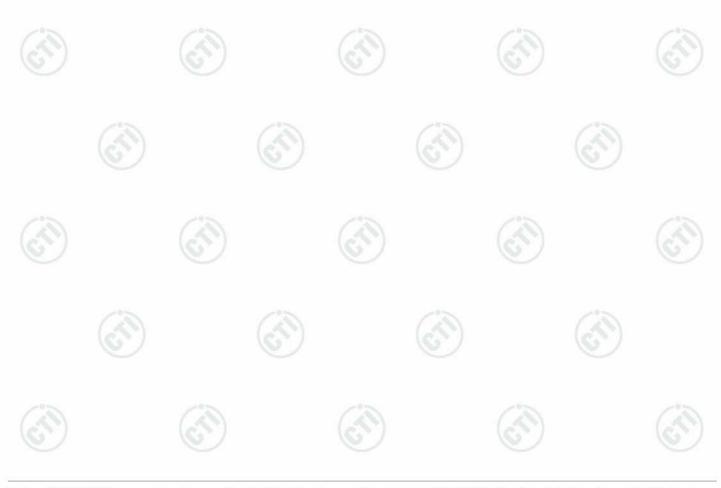
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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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Report No.: EED32M00322002 Page 7 of 8

5.1.2 EUT RF Exposure

The tune-up power is -5.0 dBm +/- 0.5dB, therefore the highest tune-up power is

-4.5dBm (0.35mW) @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,

(0.35mW / 5mm) * (2.402GHz^0.5)=0.11

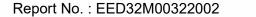
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] = 0.11 < 3.0

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. EED32M00322001 for EUT external and internal photos.

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