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RF Exposure Evaluation Report

Product : Fetal Monitor

Trade mark : JUMPER
Model/Type reference : JPD-300E

Serial Number : N/A

Report Number : EED32K00171708 FCC ID : 2ADYL-JPD300EGS

Date of Issue : Jan. 10, 2019

47 CFR Part 1.1307 47 CFR Part 2.1093

Test Standards : KDB447498D01 General

RF Exposure Guidance v06

Test result : PASS

Prepared for:

Shenzhen Jumper Medical Equipment Co., Ltd D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China

Prepared by:

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

TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Tested by:

Peter

Compiled by:

Approved by

Report Seal

Tom- che

Date:

Reviewed by:

Max liang

Max Liang

Peter

Jan. 10, 2019

Tom chen

REOM Jan

Kevin yang

Check No.:3177469070

Hotline: 400-6788-333 www.cti-cert.com E-mail: info@cti-cert.com Complaint call: 0755-33681700 Complaint E-mail: complaint@cti-cert.com









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2 Version

Version No.	Date	Description	
00	Jan. 10, 2019	Original	
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4 General Information

4.1 Client Information

Applicant:	Shenzhen Jumper Medical Equipment Co., Ltd
Address of Applicant:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Jumper Medical Equipment Co., Ltd
Address of Manufacturer:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China
Factory:	Shenzhen Jumper Medical Equipment Co., Ltd
Address of Factory:	D Building, No. 71, Xintian Road, Fuyong Street, Baoan, Shenzhen, Guangdong, China

4.2 General Description of EUT

Product Name:	Fetal Monitor		(3
Model No.(EUT):	JPD-300E	(6,2)	(67)
Trade Mark:	JUMPER		
EUT Supports Radios application:	BT 4.1 Single mode, 2402MHz	z-2480MHz	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz-2480MHz	
Sample Type:	Portable production	
Test power grade:	N/A	-0-
Test software of EUT:	nRFgo Studio.exe(manufacturer declare)	Ä
Antenna Type:	PCB Antenna	9
Antenna Gain:	0dBi	
Power Supply:	Battery: 3.7V 190mAh	
Conducted Peak Output Power:	-3.298dBm	
	The Conducted Peak Output Power data refer to the report EED32K00171704	
Firmware version:	M1_V1.0(manufacturer declare)	
Hardware version:	V1.0(manufacturer declare)	
Test power grade:	N/A	100
Test software of EUT:	nRFgo Studio.exe(manufacturer declare)	3
Test Voltage:	Battery: 3.7V 190mAh	-
Sample Received Date:	Jul. 02, 2018	
Sample tested Date:	Aug. 13, 2018 to Jan. 08, 2019	
The tested sample(s) and t	the sample information are provided by the client.	











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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.





































































SAR Evaluation

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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.

5.1.2 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max Conducted Peak Output Power is -3.298dBm in highest channel(2.402GHz);

The best case gain of the antenna is 0dBi.

EIRP= -3.298dBm + 0dBi =-3.298dBm

-3.298dBm logarithmic terms convert to numeric result is nearly0.468mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = $(0.468 \text{mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{GHz}} = 0.1451 \text{ }\bigcirc$

SAR requirement:

S = 3.0

(2):

(1) < (2).

So the SAR report is not required.































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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00171704 for EUT external and internal photos.

*** End of Report ***

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