



RF Exposure Evaluation Report

Product ECG recorder

Trade mark N/A ER2 Model/Type reference N/A **Serial Number**

EED32N00009702 **Report Number**

FCC ID 2ADXK-3622 Date of Issue Mar. 23, 2021

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

PASS Test result

Prepared for:

Shenzhen Viatom Technology Co., Ltd 4E,3#,Tingwei Industrial Park,Honglang North 2nd Road, Baoan District, Shenzhen, China

Prepared by:

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1 Version

Version No.	Date	G.	Description	
00	Mar. 23, 2021	(9)	Original	
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3 **General Information**

3.1 Client Information

Applicant:	Shenzhen Viatom Technology Co., Ltd
Address of Applicant:	4E,3#,Tingwei Industrial Park,Honglang North 2nd Road,Baoan District, Shenzhen, China
Manufacturer: Shenzhen Viatom Technology Co., Ltd	
Address of Manufacturer: 4E,3#,Tingwei Industrial Park,Honglang North 2nd Road,Baoan District, Shenzhen, China	
Shenzhen Viatom Technology Co., Ltd	
Address of Factory:	4E,3#,Tingwei Industrial Park,Honglang North 2nd Road,Baoan District, Shenzhen, China

3.2 General Description of EUT

Product Name:	ECG recorder	
Model No.(EUT):	ER2	48%
Trade Mark:	N/A	
EUT Supports Radios application:	5.0(BLE)	6

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		
Test Power Grade:	Default(manufacturer declare)		
Test Software of EUT:	nRFgo Studio		
Antenna Type:	integral antenna		
Antenna Gain:	4.76dBi		
Power Supply:	DC 3.7V		
Max Conducted Peak Output Power:	BT5.0: -4.01dBm		
	The Max Conducted Peak Output Power data refer to the report EED32N00009701		
Sample Received Date:	Jan. 07, 2021		
Sample tested Date:	Feb. 25, 2021 to Mar. 10, 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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3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.















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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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:

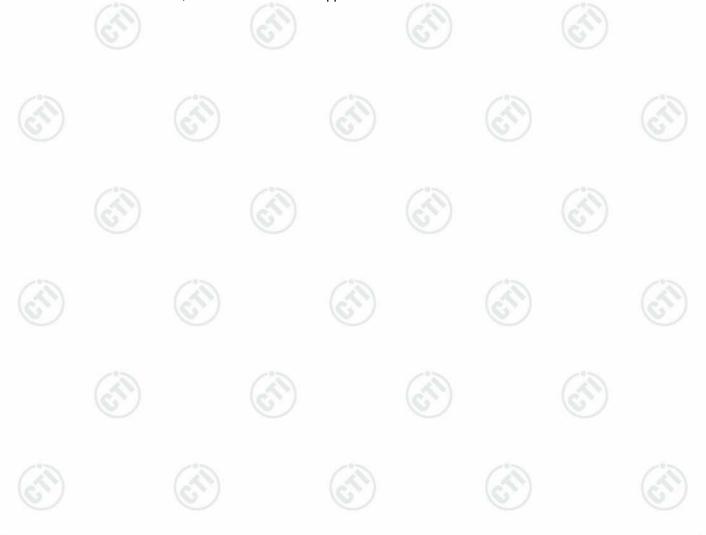
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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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4.1.2 EUT RF Exposure

The tune-up power is -4.5 dBm +/- 0.5dB, therefore the highest tune-up power is

-4.0 dBm (0.40 mW) @ 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,

(0.40 mW / 5 mm) * (2.402 GHz * 0.5) = 0.1

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * $[\sqrt{f(GHz)}] = 0.1 < 3.0$

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. EED32N00009701 for EUT external and internal photos.

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