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RF Exposure Evaluation Report

Product Dynamic ECG recorder

N/A Trade mark

Model/Type reference ER1-LW, ER1-LB

Serial Number N/A

EED32N81031102 **Report Number**

FCC ID : 2ADXK-3614 Date of Issue Feb. 22, 2022

: 47 CFR Part 1.1307

47 CFR Part 2.1093 **Test Standards**

KDB447498D01 General RF

Exposure Guidance v06

Test result : PASS

Prepared for:

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Prepared by:

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Version

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00	Feb. 22, 2022		Original			
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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.	6
Address of Manufacturer:	4E, 3#, Tingwei Industrial Park, Honglang North 2nd Road, Baoan District, Shenzhen, China	
Factory:	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:	Dynamic ECG recorder				
Mode No.:	ER1-LW, ER1-LB	(0,)			
Test Mode No.:	ER1-LW				
Trade mark:	N/A				
Bluetooth Version:	V4.0				
Operation Frequency:	2402MHz~2480MHz				
Modulation Type:	GFSK				
Number of Channel:	40				
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location				
Antenna Type:	Chip Antenna				
Antenna Gain:	0dBi	0			
Power Supply:	Lithium JNY551924 240mAh				
	Battery 3.8V 912wh				
	Charge by DC 5.0V				
Test Voltage:	DC 3.8V				
Sample Received Date:	Oct. 18, 2021				
Sample tested Date:	Oct. 18, 2021 to Oct. 26, 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.

Note: Since the RF parameters of the left and right earplugs are the same, only the left ear was tested in this report.

Model No.: ER1-LW, ER1-LB

Only the model ER1-LW was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model and color of appearance.















3.3 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

3.4 Deviation from Standards

3.5 Abnormalities from Standard Conditions







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:

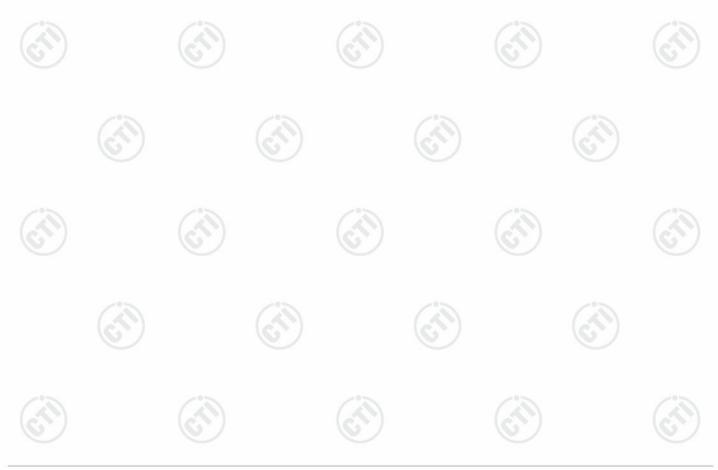
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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

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







4.1.2 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode							
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power				
	(dBm)	(dBm)	(dBm)	(mW)			
Lowest(2402MHz)	-1.31	-1.0±1	0.0	1.0			
Middle(2441MHz)	-1.28	-1.0±1	0.0	1.0			
Highest(2480MHz)	-1.07	-1.0±1	0.0	1.0			

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion
			(dBm)	(mW)	value	threshold
Lowest (2402MHz)	-1.31	-1.0±1	0.0	1.0	0.3	
Middle (2441MHz)	-1.28	-1.0±1	0.0	1.0	0.3	3.0
Highest (2480MHz)	-1.07	-1.0±1	0.0	1.0	0.3	Cil

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81031101.





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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81031101 for EUT external and internal photos.

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