

RF Exposure Evaluation Report

Product : Sleep Monitor
Trade mark : Luno Sense
Model/Type reference : YBB-FOS3, YBB-THB3, YBB-FOS1,
YBB-FOS2, BB-FOS4, YBB-FOS5,
YBB-FOS6
Serial Number : LUNO-B1260601003,
LUNO-B1260601004,
LUNO-B1260601005
Report Number : EED32S814637
FCC ID : 2BW4YAC-7897-8899
Date of Issue : August 12, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district,
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1 Contents

	Page
1 CONTENTS	2
2 GENERAL INFORMATION	3
2.1 CLIENT INFORMATION	3
2.2 GENERAL DESCRIPTION OF EUT	3
2.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
2.4 TEST LOCATION	5
2.5 DEVIATION FROM STANDARDS	5
2.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
2.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
3 SAR EVALUATION	6
3.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
3.1.1 Limits	6
3.1.2 Test Procedure	6
3.1.3 EUT RF Exposure Evaluation	7

2 General Information

2.1 Client Information

Applicant:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Applicant:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province
Manufacturer:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Manufacturer:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province
Factory:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Factory:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province

2.2 General Description of EUT

Product Name:	Sleep Monitor						
Model No.:	YBB-FOS3, YBB-THB3, YBB-FOS1, YBB-FOS2, BB-FOS4, YBB-FOS5, YBB-FOS6						
Test Model No.:	YBB-FOS3						
Model difference:	That any of production units bearing the following model numbers have same electrical, PCB and layout, only the sensor model name, sensor size, sensor wires color, cable color, main control box color, soft cover and application scenarios are different for marketing requirements. See below for details. These differences do not affect the radio frequency (RF) performance, electromagnetic compatibility, or any other technical characteristics reported to the FCC. The configuration equipped with sensor model YBB-FOS3 was used as the master test sample for all FCC certification testing. We confirm that the test results obtained from this master configuration are fully representative of and applicable to all other listed configurations.						
	(Optional):						
	Model	Sensor model	Sensor size	Sensor wires color	Main control box color	Cable color	Soft cover
	LUNO	YBB-THB3	470×270mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS1	555×355mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS2	725×525mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS3	725×175mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS4	1550×725mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS5	1225×175mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS6	725×525mm	White/Black	White/Black	White/Black	Grey/Brown/Black

Trade Mark:	Luno Sense
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2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Modulation Type:	BLE: GFSK 2.4G Wi-Fi: IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,QPSK, BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	EspRFTTestTool_v5.2_Manual.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	3.26dBi	
Power Supply:	USB Port:	DC 5V
Sample Received Date:	Jul. 06, 2026	
Sample tested Date:	Jul. 06, 2026 to Jul. 16, 2026	

2.4 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, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	1.35	3.26	2.46	1.76	3060.00	0.0006	Pass
@2.4G Wi-Fi	20	13.67	3.26	14.78	30.06	3060.00	0.0098	Pass

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;
- ⑤The estimation distance is 20cm;
- ⑥The test data please refer to the report of EED32S814639, EED32S814640 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi)=0.0006+0.0098=0.0104 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***