

RF Exposure Evaluation Report

Product : Mini Multi-Effect Processor
Trade mark : LIVTRA, LEKATO, CASON,
GEAR4MUSIC, VOVENTO, WORALL,
HEBIKUO, PogoLab, EROK, GOKKO
Model/Type reference : NANOCORE, Pocket Pixel, Sonbit
Pocketcore
Serial Number : N/A
Report Number : EED32S815403
FCC ID : 2BW7BEF100
Date of Issue : August 27, 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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Prepared by:

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2 General Information

2.1 Client Information

Applicant:	Zhuhai Livtra Technology Co., Ltd.
Address of Applicant:	Room 327, 3rd Floor, No.2 Factory Building, No.6698 Zhuhai Avenue, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province
Manufacturer:	Zhuhai Livtra Technology Co., Ltd.
Address of Manufacturer:	Room 327, 3rd Floor, No.2 Factory Building, No.6698 Zhuhai Avenue, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province
Factory:	Zhuhai Livtra Technology Co., Ltd.
Address of Factory:	Room 327, 3rd Floor, No.2 Factory Building, No.6698 Zhuhai Avenue, Hongqi Town, Jinwan District, Zhuhai City, Guangdong Province

2.2 General Description of EUT

Product Name:	Mini Multi-Effect Processor								
Model No.:	NANOCORE, Pocket Pixel, Sonbit Pocketcore								
Test Model No.:	NANOCORE								
Model difference:	That any of production units bearing the following model numbers have same electrical parameters (current/voltage/power, etc.), internal structure, electrical principles, PCB and layout. Only the appearance and model name are different for marketing requirements. For detailed information, please refer to the table below.								
	Category	Model	Appearance	Current	Voltage	Power	Internal structure	Electrical principles	PCB and Layout
	Test Model	NANOCORE	White housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
	Cover Models	NANOCORE	Black housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Pocket Pixel	Black housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Sonbit Pocketcore	White housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Sonbit Pocketcore	Black housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Sonbit Pocketcore	Gray housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Sonbit Pocketcore	Golden housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
		Sonbit Pocketcore	Blue housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical
Sonbit Pocketcore		Purple housing	330 mA	DC 5V	1.65W	Identical	Identical	Identical	
Trade Mark:	LIVTRA, LEKATO, CASON, GEAR4MUSIC, VOVENTO, WORALL, HEBIKUO, PogoLab, EROK, GOKKO								

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK
Test Power Grade:	Default

Test Software of EUT:	FCC_assist1.0.4.exe	
Antenna Type:	Monopole Antenna	
Antenna Gain:	3.04dBi	
Power Supply:	Battery:	DC 3.7V
	USB Port:	DC 5V
Sample Received Date:	Jul. 09, 2026	
Sample tested Date:	Jul. 09, 2026 to Jul. 14, 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 P_{th} (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). P_{th} 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 $ERP_{20 \text{ cm}}$ 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	-2.37	3.04	-1.48	0.71	3060.00	0.0002	Pass
@BT	20	-1.32	3.04	-0.43	0.91	3060.00	0.0003	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP = EIRP - 2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32S815397, EED32S815398 and only the worst case data was recorded in the report.

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;
5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***