

RF Exposure Evaluation Report

Product : FM Synthesizer
Trade mark : M-VAVE, DONNER, CASON, GEAR4MUSIC, GOKKO
Model/Type reference : FM-1, DX-7, FM1, FM, DX7, SK15, Synthesizer, FM Synthesizer, FM1 Synthesizer, FM-1 Synthesizer, POCKET FM, Opix 7, GOW-7, GOR-7, GOB-7
Serial Number : N/A
Report Number : EED32S813805
FCC ID : 2ARCP-FM1
Date of Issue : August 7, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result : PASS

Prepared for:

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August 7, 2026



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2 General Information

2.1 Client Information

Applicant:	Sinco Intelligent Technology Co., Ltd.
Address of Applicant:	Room 805-807, No.17, Wenheng Street, Sanzao Town, Jinwan District, Zhuhai City, China
Manufacturer:	Sinco Intelligent Technology Co., Ltd.
Address of Manufacturer:	Room 805-807, No.17, Wenheng Street, Sanzao Town, Jinwan District, Zhuhai City, China
Factory:	Sinco Intelligent Technology Co., Ltd.
Address of Factory:	Room 805-807, No.17, Wenheng Street, Sanzao Town, Jinwan District, Zhuhai City, China

2.2 General Description of EUT

Product Name:	FM Synthesizer		
Model No.:	FM-1, DX-7, FM1, FM, DX7, SK15, Synthesizer, FM Synthesizer, FM1 Synthesizer, FM-1 Synthesizer, POCKET FM, Opix 7, GOW-7, GOR-7, GOB-7		
Test Model No.:	FM-1		
Model difference:	That any of production units bearing the following model numbers have same electrical, PCB and layout, only the model name, Color and Model are different for marketing requirements.What needs to be modified should be consistent. See below for details.		
	(Optional):		
	Model	Similarities	Differences
	FM-1	The rated input current/voltage/frequency/power are all consistent.	Apart from the color and model, there are no other differences.
	DX-7		
	FM1		
	FM		
	DX7		
	SK15		
	Synthesizer		
	FM Synthesizer		
	FM1 Synthesizer		
	FM-1 Synthesizer		
	POCKET FM		
	Opix 7		
GOW-7			
GOR-7			
GOB-7			
Trade Mark:	M-VAVE, DONNER, CASON, GEAR4MUSIC, GOKKO		

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK BT: GFSK, $\pi/4$ DQPSK, 8DPSK	
Test Power Grade:	Default	
Test Software of EUT:	FCC_assist_v1.1.5.exe	
Antenna Type:	Wire Antenna	
Antenna Gain:	3.04dBi	
Power Supply:	Adapter:	DC 5V 1A
	Battery:	DC 3.7V ,2000 mAh
Sample Received Date:	Jul. 02, 2026	
Sample tested Date:	Jul. 02, 2026 to Jul. 10, 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:

Band	Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BLE	2402	0.5	0.08	3.04	0.97	1.25	2.788	0.4485	Pass
BT	2402	0.5	1.58	3.04	2.47	1.77	2.788	0.6335	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 0.5cm;

⑥The test data please refer to the report of EED32S813807, EED32S813808 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;
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*** End of Report ***