

RF Exposure Report

Report No.: AGC07434250348FH01

FCC ID	:	2ARXB-B1C
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Label Printer
BRAND NAME	:	NIIMBOT
MODEL NAME	:	NIIMBOT B1, B1 SE, NIIMBOT B1_X, NIIMBOT B1_A
APPLICANT	:	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.
DATE OF ISSUE	:	May 08, 2025
STANDARD(S)	:	FCC KDB 447498 D01 V06
REPORT VERSION	:	V1.0







Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 08, 2025	Valid	Initial Release



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1. General Information

Applicant	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.
Address	No. 5, Creative Workshop, Creative World, Yezhihu West Road, Hongshan District, Wuhan, China
Manufacturer	Wuhan Jingchen Intelligent Identification Technology Co., Ltd.
Address	No. 5, Creative Workshop, Creative World, Yezhihu West Road, Hongshan District, Wuhan, China
Factory	Dongxihu branch of Wuhan Jingchen Intelligent Identification Technology Co., Ltd.
Address	No. 20, Xincheng eighteen Road, Changqing Street, Dongxihu District, Wuhan, Hubei Province, China
Product Designation	Label Printer
Brand Name	NIIMBOT
Test Model	NIIMBOT B1
Series Model(s)	B1 SE, NIIMBOT B1_X, NIIMBOT B1_A
Difference Description	All the same except for the model name.
Date of receipt of test item	Mar. 25, 2025
Date of Test	Apr. 07, 2025~May 08, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-RF Exposure-V1

Note: The test results of this report relate only to the tested sample identified in this report.

s li Prepared By Cici Li May 08, 2025 (Project Engineer) Bibo zhang **Reviewed By** Bibo Zhang May 08, 2025 (Reviewer) Approved By Angela Li May 08, 2025

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(Authorized Officer)



2. Product Information

2.1 Product Technical Description

Frequency Band (Operating)	⊠Bluetooth: 2.402GHz ~ 2.480GHz ⊠Other: NFC: 13.56MHz		
Hardware Version	V6.01		
Software Version	V6.10		
	Bluetooth: ⊠GFSK, EDR □π /4-DQPSK, □8DPSK		
Modulation Type	Bluetooth: BLE GFSK 1Mbps GFSK 2Mbps		
	NFC: ASK		
Device Category	Portable (<20cm separation) Mobile (>20cm separation) Others:		
Antenna Diversity	□Single antenna Multiple antennas □Tx diversity □Rx diversity □Tx/Rx diversity		
Antenna Designation BT: PCB Antenna NFC: Induction Coil Antenna			
Antenna Gain	BT: -1.028dBi NFC: 0dBi		
Minimum Assessment Distance	5mm		
Evaluation Applied	 ☐MPE Evaluation ☑SAR Evaluation 		



3. Test Environment

3.1 Address Of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



3.3 Environmental Conditions

	NORMAL CONDITIONS			
Temperature range (℃)	15 - 35			
Relative humidity range	20 % - 75 %			
Pressure range (kPa)	86 - 106			
Power supply	DC 7.4V by battery or DC 5V by adapter			
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.				



4. Portable Device Evaluation Method and Limit

Following FCC KDB 447498 D01 "General SAR test exclusion guidance" The corresponding SAR Exclusion Threshold condition, listed below:

- ◆ 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)] [$\sqrt{f(GHz)}$] ≤ 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 calculation.
 - The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is <50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - [Threshold at 50 mm in step 1) + (test separation distance 50mm) (f(MHz)/150)] mW, at 100MHz to 1500 MHz;
 - [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-10] mW at > 1500 MHz and <6 GHz;</p>
- At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.</p>
 - > The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by 1/2 for test separation distances \leq 50 mm.
 - SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.



5. Measurement Results

Test Mode	Channel Frequency (MHz)	Max Output power (dBm)	Max Output power (mW)	Calculation Value (Note 1)	Limit Value	
8DPSK						
BT_BR	2402	-5.127	0.307	0.095	3.0	
GFSK						
BT_BLE	2440	-4.532	0.352	0.110	3.0	

Note:

Calculation Value =[(max. power of channel, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$. 1. Fox example: $0.307/5^*\sqrt{2.402}=0.095 \le 3.0$

Calculation Value =[(max. power of channel, mW)/(min. test separation distance, mm)] $\left[\sqrt{f(GHz)}\right]$. 2. Fox example: 0.352/5*√2.44=0.110≤ 3.0

According to KDB447498 D01 V06, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

Test Mode	Channel Frequency (MHz)	Field Strength (dBuV/m@3m)	Max Output power (dBm)	Max Output power (mW)	Threshold Value (mW)
NFC-ASK	13.56MHz	68.61	-32.62	0.00055	442.97

Note:

1. Calculate the SAR test to eliminate thresholds from chapter 2 conditions "3" formula.

Max Output Power (dBm) = Field Strength of Fundamental (<u>dBuV/m@3m)-95.23-6</u>. Max Output Power (mW) = $10^{A(Max power (dBm)/10)}$ 2.

3.

The wireless function BT and NFC of the device can transmit at the same time, and the final exemption result is 0.110/3.0 + 0.00055/442.974 = 0.036679067 < 1.0.

6. Measurement Evaluation

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----