



RF Exposure Evaluation Report



Page: 1 / 7

Application No.: DNT230959R1174-1637

Applicant: Shenzhen Iemiyoo Technology Co.,Ltd.

Address of Applicant: 409 block B, xinhefeng Business Building, No. 35, Baomin 2nd Road, Bao'an District

The samples and sample information for the following tests are provided and confirmed by the applicant.

EUT Description: Handheld

Model No.: miyoo mini+

FCC ID: 2BD5P-MIYOOMINI

Power supply DC3.7V/ 450mA; DC 5V/1A From Adapter Input 100-240V,50/60Hz

Standards: 47 CFR Part 2.1093

FCC KDB 447498 D01 v07

Trade Mark: N/A

Date of Receipt: 2023/12/14

Date of Test: 2023/12/18 to 2023/12/26

Date of Issue: 2023/12/27

Test Result : PASS *

Prepared By: Wayne Lin (Test Engineer)

Reviewed By: Pencils Chen (Project Engineer)

Approved By: Wick Feng (Manager)

Dongguan DN Testing Co., Ltd.

Add: No. 1, West Fourth Street, Xingfa South Road, Wusha Community, Chang'an Town, Dongguan City, Guangdong P.R.China

Web: www.dn-testing.com

Tel: +86-769-88087383

E-mail: service@dn-testing.com



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Date: Dec.27, 2023

Page: 2 / 7

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V2.0	/	Dec.27, 2023	Valid	Original Report

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Contents

1 General Information	4
1.1 Test Location	4
1.2 General Description of EUT	4
2 RF Exposure Evaluation	5
2.1 RF Exposure Compliance Requirement	5
2.1.1 Limits	5
2.1.2 Test Procedure	7
2.1.3 EUT RF Exposure Evaluation	7



1 General Information

1.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xingfa Road, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

1.2 General Description of EUT

EUT Description::	Handheld
Manufacturer:	Shenzhen lemiyoo Technology Co.,Ltd.
Address of Manufacturer:	409 block B, xinhefeng Business Building, No. 35, Baomin 2nd Road, Bao'an District
Model No.:	miyoo mini+
Additional Model(s):	miyoo mini v4,miyoo mini,miyoo a30,miyoo a40,miyoo a50,miyoo pocket,miyoo pocket2,miyoo p60,miyoo p70,miyoo sp,miyoo mini sp,miyoo mini pro,miyoo mini +v2,miyoo mini+ v3,miyoo mini+ v4,miyoo super,miyoo super2
Chip Type:	RTL8188FTV
Serial number:	SP2301218011
Power Supply:	DC3.7V/ 450mA; DC 5V/1A From Adapter Input AC 100-240V,50/60Hz
Trade Mark:	MIYOO
Hardware Version:	V1.0
Software Version:	V1.0
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input checked="" type="checkbox"/> External, <input type="checkbox"/> Integrated
Antenna Gain:	<input checked="" type="checkbox"/> Provided by applicant 3.4dBi

Remark:..

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



2 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Limits

Human exposure to RF emissions from portable devices (47 CFR §2.1093), as defined by the FCC, must be evaluated with respect to the FCC-adopted limits for SAR. Evaluation of mobile devices, as defined by the FCC, may also be performed with respect to SAR limits, but in such cases it is usually simpler and more cost-effective to evaluate compliance with respect to field strength or power density limits. For certain devices that are designed to be used in both mobile and portable configurations similar to those described in 47 CFR §2.1091(d)(4), such as certain desktop phones and wireless modem modules, compliance for mobile configurations is also satisfied when the same device is evaluated for SAR compliance in portable configurations.

Refer to 47 CFR §2.1093:

A portable device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that the RF source's radiating structure(s) is/are within 20 centimeters of the body of the user.

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to § 1.1307(b)(3)(i)(C), or more than the P_{th} in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.



$$P_{th} (\text{mW}) = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

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). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 300 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.



2.1.2 Test Procedure

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

2.1.3 EUT RF Exposure Evaluation

Mode	Fre (MHz)	Peak Conducted output Power (dBm)	Antenna Gain (dBi)	E.R.P (dBm)	Max. Target power (mW)	SAR Test Exemption Limit (mW)
11B	2412	2.64	3.40	3.89	2.449	3
	2437	1.91	3.40	3.16	2.070	3
	2462	2.58	3.40	3.83	2.415	3
11G	2412	1.72	3.40	2.97	1.982	3
	2437	3.22	3.40	4.47	2.799	3
	2462	2.27	3.40	3.52	2.249	3
11N20SISO	2412	1.96	3.40	3.21	2.094	3
	2437	3.20	3.40	4.45	2.786	3
	2462	2.53	3.40	3.78	2.388	3
11N40SISO	2422	1.98	3.40	3.23	2.104	3
	2437	3.23	3.40	4.48	2.805	3
	2452	1.76	3.40	3.01	2.000	3

Note:

1. E.R.P=Conducted output Power+Antenna Gain -2.15.
3. SAR Test Exclusion Thresholds is 3mW for separation distance 5mm. Therefore, SAR test is not required.

The End Report