

JianYan Testing Group Shenzhen Co., Ltd.

Report No.: JYTSZ-R12-2400374

RF Exposure Evaluation Report

Report No.: JYTSZ-R12-2400374

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6851B

Trade mark: Infinix

FCC ID: 2AIZN-X6851B

Applicable standards: FCC CFR Title 47 Part 2 (§2.1091)

Date of sample receipt: 11 Jan., 2024

Date of Test: 12 Jan., to 12 Mar., 2024

Date of report issue: 17 Mar., 2024

Test Result: PASS

Project by: Date: 17 Mar., 2024

Reviewed by: Date: 17 Mar., 2024

Approved by: Date: 17 Mar., 2024

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description	
00	17 Mar., 2024	Original	





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3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED	
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
Manufacturer:	INFINIX MOBILITY LIMITED	
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG	
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.	
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China	

3.2 General Description of E.U.T.

2.2 Contra 2 Contra C. 2.10111					
Product Name:	Mobile Phone				
Model No.:	X6851B				
Operation Frequency:	125KHz				
Modulation technology:	ASK				
Antenna Type:	Coil Antenna				
Power supply (Wireless Charger):	Output Wireless: 5W				
AC Adapter:	Model: U1000XSA Input: AC100-240V, 50/60Hz, 2.3A Output: DC 5.0V, 3.0A 15.0W or DC 5.0V-11.0V, 9.1A or DC 4.0V-20.0V, 5.0A 100.0W MAX				
Test Sample Condition: The test samples were provided in good working order with no vis					

3.3 Operating Modes

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.

3.4 Description of Support Units

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.

3.5 Measurement Uncertainty

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.

3.6 Additions to, deviations, or exclusions from the method

No

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-178-C No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366



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3.7 Laboratory Facility

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

FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://jyt.lets.com

3.9 Test Instruments list

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.



4 Technical Requirements Specification

4.1 Limits

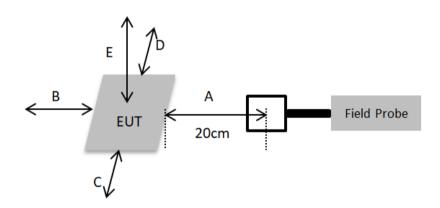
Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

According to KDB680106 D01 Wireless Power Transfer v04, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

Limits For General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW /cm ₂)	Averaging Time (minutes)
0.3 ~ 1.34	614	1.63	(100)*	30
1.34 ~ 30	824/f	2.19/f	(180/f ₂)*	30
30 ~ 300	27.5	0.073	0.2	30
300~1500	-	-	f/1500	30
1500~100000	-	-	1.0	30

4.2 Test Setup Block



Remrak:

- 1. The EHP 200AC probe antenna diameter is 8.8cm.
- 2. A is Front side, B is Back side, C is Left side, D is Right side, E is Top side.
- 3. The test distance of A, B, C, D and E side is 20cm.





4.3 Test Procedure

KDB 680106 D01 Section 5.2:

- (1) The power transfer frequency is below 1 MHz.
 - -- Yes, the device operate in the frequency 125kHz.
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
 - -- Yes, the maximum output power of the primary coil is 5W.
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter
- (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact).
 - --Yes, the client device providing the maximum permitted load is placed in physical contact with the transmitter.
- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
 - -- Yes, while the EUT is in reverse charging, it is unable to use its features and now it is a mobile device.
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.).
 - -- Yes, the EUT field strength levels are less than 50% of the MPE limit.
- (6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
 - --Yes, the EUT only has one coil and operating at maximum power during test.
- 1. Installing the probe and turn on the EHP 200AC power switch, in the testing software, select the magnetic field test mode and the A/m unit, select the peak detection mode, select the Max-Hold display.
- 2. Check the background noise.
- 3. Make DUT work at maximum transmit power.
- 4. During the measurement, the probe centre of the EHP 200AC is kept in 20cm distance from each test surface of the wireless charging base, and recorded the measured values of the A, B, C, D and E side are separately.
- 5. In the testing software, Select the electric field test mode and the V/m unit, select the peak detection mode, select the Max-Hold display.
- 6. Repeat step 2 to 4 and then get the strength of the electric field.
- 7. Desktop device should be installed on the edge.(table : 0.8 m (H) high table structure of nonmetallic materials).

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4.4 Result

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.

4.5 Conclusion

Please refer to FCC ID: 2AIZN-X6851, report No.: JYTSZ-R12-2400215.

-----End of report-----