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TEST REPORT

FCC ID: 2AIZN-X609B Product: Mobile Phone Model No.: X609B Additional Model No.: N/A Trade Mark: Infinix Report No.: FCC18080068A-15B Issued Date: Oct. 16, 2018

Issued for:

INFINIX MOBILITY LIMITED RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Jo Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192

FAX: +86-755-86376605

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group Co.,Ltd. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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1. GENERAL INFORMATION

| Product: | Mobile phone |
|----------------------|--|
| Model No.: | X609B |
| Additional Model: | N/A |
| Applicant: | INFINIX MOBILITY LIMITED |
| Address: | RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG |
| Manufacturer: | SHENZHEN TECNO TECHNOLOGY CO., LTD. |
| Address: | 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C |
| Data of receipt: | Sep. 26, 2018 WSET WSET WSET |
| Date of Test: | Sep. 26, 2018 to Oct. 15, 2018 |
| Applicable | FCC Rules Part15 Subpart B. |
| Standards: | ANSI C63.4-2014 |

TESTING

NVLAP LAB CODE 600142-0

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Pu Shixi (Pu Shixi)

Date: ______Oct. 16, 2018

Date: Oct . 16 . 2018

Date: Och. 1

Check By:

<u>Qin Shuiquan</u> (Qin Shuiquan) Und Con

Approved By:

(Wang Fengbing)



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| 2. | GENERAL I | DESCRIPTION OF EUT NVLAP LAB CODE 600142-0 For Question, | |
|----|-----------------------------|--|------------|
| | Equipment Type: | Mobile Phone Www.wsct-cert.do | WSCT om |
| 4 | Test Model: | X609BW5CT WSCT WSCT W | 5 <i>C</i> |
| | Additional Model: | N/A | |
| | Trade Mark: | Infinix WEET | |
| | Applicant: | INFINIX MOBILITY LIMITED | |
| | Address: | RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG | X |
| 2 | Manufacturer: | SHENZHEN TECNO TECHNOLOGY CO., LTD. W527 W | 5 <i>C</i> |
| | Address: | 1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C | |
| | Hardware version: | V2.0 WSET WSET WSET | |
| | Software version: | X609B-H8025C-GO-180911V46 | × |
| 2 | Extreme Temp. Tolerance: | -10°C to +65°C | 5 <i>C</i> |
| | Battery information: | Li-Polymer Battery : BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V | |
| | Adapter Information: | Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5V1.2A | X |
| - | Deviation | None | 512 |
| | Condition of Test Sample | Normal | |



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2.1. TEST DESCRIPTION 2.1.1 MEASUREMENT UNCERTAINTY

Please Contact with WSCT The reported uncertainty of measurement y \pm U , where expended uncertainty U is based on wav-wsct-cert.com standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % •

| Y | | | Y | X |
|--------------|------|-------------------------------|-------------|--------------|
| \sim | No. | Item | Uncertainty | \land |
| AWSET | 1 W5 | Conducted Emission Test | ±3.2dB 527 | WSET N |
| | 2 | RF power, conducted | ±0.16dB | |
| | 3 | Spurious emissions, conducted | ±0.21dB | |
| WSE | 4 | All emissions, radiated(<1G) | ±4.7dB W5CT | WSET |
| | 5 | All emissions, radiated(>1G) | ±4.7dB | |
| \mathbf{X} | 6 | Temperature | ±0.5°C | \mathbf{X} |
| WSET | 7 | Humidity wsr7 | ±2% wsrr | WSET |
| | - | | | |

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2.1.2 DESCRIPTION OF TEST MODES





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To investigate the maximum EMI emission characteristics generates from EUT, the test system^{ct-cert.com} was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-----------------------------|
| Mode 1 | Video Recording |
| Model 2 | Video Playing |
| Mode 3 | Exchange data with computer |
| Mode 4 | ET WSET FM WSET |
| | |

| For Conducted Emission | | | | | | |
|------------------------|------------------------------|--|--|--|--|--|
| Final Test Mode | Test with Keyboard and Mouse | | | | | |
| Mode 1 | Video Recording | | | | | |
| Model 2 | Video Playing | | | | | |
| Mode 3 | Exchange data with computer | | | | | |
| Mode 4 | CT° WSCTFM WSCT° | | | | | |

| For Radiated Emission | | | | | | | |
|------------------------|------------------------------|--|--|--|--|--|--|
| Final Test Mode | Test with Keyboard and Mouse | | | | | | |
| Mode 1 Video Recording | | | | | | | |
| Model 2 | Video Playing | | | | | | |
| Mode 3 | Exchange data with computer | | | | | | |
| Mode 4 | CT WSCTFM WSCT | | | | | | |



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2.1.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) NG NVLAP LAB CODE 600142-0

The EUT has been tested as an independent unit together with other necessary accessories contact with WSCT support units. The following support units or accessories were used to form a representative test configuration during the tests.

| | | | | | / | |
|-----------|------|-----------|-----------|----------------|------------|-------------------|
| \sim | Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
| $ \land $ | 1 | Adapter | / | CU-52JT | / | / |
| WSET | 2 | Keyboard | HP5C7 | SK-2880 | 435302-AA- | WSCT [®] |
| | 3 | Mouse | DELL | MS111-1 | | / |

Note:

(1) (2) The support equipment was authorized by Declaration of Confirmation.

For detachable type I/O cable should be specified the length in cm in ^r Length ¹ column.



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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B

| 567 | Standard Section | Test Item | Judgment | Remark | | | |
|--------|---------------------|--------------------|----------|--------|--|--|--|
| | 15.107 | CONDUCTED EMISSION | PASS | | | | |
| 15.109 | | RADIATED EMISSION | PASS | | | | |

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NOTE:

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(1)" N/A" denotes test is not applicable in this test report.

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4. MEASUREMENT INSTRUMENTS

| , | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibrated | Calibrated until | |
|----------------------------|--------------------|--------------|-------------|-------------|--------------------|---------------------|---|
| | ESCI Test Receiver | R&S | ESCI | 100005 | 08/19/2018 | 08/18/2019 | |
| | LISN | AFJ | LS16 | 16010222119 | 08/19/2018 | 08/18/2019 | |
| | LISN(EUT) 5C7° | Mestec W5/ | AN3016 | 04/10040 | 08/19/2018 | 08/18/2019 | |
| | pre-amplifier | CDSI | PAP-1G18-38 | | 08/19/2018 | 08/18/2019 | |
| System Controller CT | | СТ | SC100 | - | 08/19/2018 | 08/18/2019 | |
| | Bi-log Antenna | Chase | CBL6111C | 2576 | 08/19/2018 | 08/18/2019 | 1 |
| | Spectrum analyzer | R&S | FSU26 | 200409 | 08/19/2018 | 08/18/2019 | |
| | Horn Antenna | SCHWARZBECK | 9120D | 1141 | 08/19/2018 | 08/18/2019 | |
| Bi-log Antenna SCHWAREBECK | | VULB9163 | 9163/340 | 08/19/2018 | 08/18/2019 | | |
| | Pre Amplifier | H.P. | HP8447E | 2945A02715 | 10/13/2018 | 10/12/2019 | |
| | 9*6*6 Anechoic | X | X | | 08/21/2018 | 08/20/2019 | K |
| | | | | | | | |



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5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| X | X | | X | X | | |
|------------------|----------------|------------------|------------|-----------------|----------|--|
| | Class A (dBuV) | | Class B | Standard | | |
| FREQUENCE (MIDZ) | Quasi-peak | Average | Quasi-peak | Average | Stanuaru | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC | |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC | |
| W5L5.0-30.0 | 73.00 | 60.00 W 5 | 2760.00 | 50.00 <i>CT</i> | FCC | |

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| | Receiver Parameters | Setting |
|--------------|---------------------|--------------|
| | Attenuation | 10 dB |
| \mathbf{X} | Start Frequency | 0.15 MHz |
| $ \land $ | Stop Frequency | 30 MHz |
| WSET | IF Bandwidth | WSC9kHz WSCT |

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5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being confected tact with WSCT to the power mains through a line impedance stabilization network (LISN). All other support wsct-cert.com equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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| | No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | |
|---------------|---------|--------|------------------|-------------------|------------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| Х | 1 | 0.1580 | 20.32 | 10.44 | 30.76 | 55.56 | -24.80 | AVG |
| VSET | 2 | 0.1620 | 43.25 | 10.44 | 53.69 | 65.36 | -11.67 | QP |
| | 3 | 0.2020 | 26.34 | 10.43 | 36.77 | 63.52 | -26.75 | QP |
| X | 4 | 0.2620 | 21.48 | 10.43 | 31.91 | 51.36 | -19.45 | AVG |
| ws | 5 | 0.3500 | 19.88 | 10.42 | 30.30 | 58.96 | -28.66 | QP |
| \bigvee | 6 * | 0.4740 | 25.91 | 10.40 | 36.31 | 46.44 | -10.13 | AVG |
| \wedge | 7 | 0.8380 | 23.11 | 10.36 | 33.47 | 46.00 | -12.53 | AVG |
| NSET | 8 | 0.9940 | 28.36 | 10.34 | 38.70 | 56.00 | -17.30 | QP |
| \rightarrow | 9 | 1.3099 | 23.07 | 10.32 | 33.39 | 46.00 | -12.61 | AVG |
| | 10 | 1.3619 | 28.85 | 10.32 | 39.17 | 56.00 | -16.83 | QP |
| WS | 11 | 2.0660 | 20.89 | 10.29 | 31.18 | 46.00 | -14.82 | AVG |
| X | 12 | 3.6820 | 26.40 | 10.26 | 36.66 | 56.00 | -19.34 | QP |
| | | | | | | | | |

Note: 1.All the modes have been investigated, and only worst mode is presented in this report. 2.Over=Reading Level + Correct Factor - Limit.

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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Radiated Emission Limits

on Limits (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequencies | Field Strength | Measurement Distance | | |
|----------------------|--------------------|----------------------|--|--|
| (MHz) | (micorvolts/meter) | (meters) | | |
| 0.009~0.490 | 2400/F(KHz) | 300 | | |
| 0.490~1.705 | 24000/F(KHz) | 30 | | |
| 5c7° 1.705~30.0 w5c7 | 30 w5rr° | -30 | | |
| 30~88 | 100 | 3 | | |
| 88~216 | 150 | 3 | | |
| 216~960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| | Limit (dBuV/m) (at 3M) | | | |
|------------|------------------------|---------|--|--|
| | PEAK | AVERAGE | | |
| Above 1000 | 74 | 54 | | |
| | | | | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter | Setting |
|---------------------------------|---|
| Attenuation | Auto |
| Start Frequency | 5CT |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted | 1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average |
| balldy | |

| | Receiver Parameter | Setting | | |
|---|------------------------|----------------------------------|--|--|
| | Attenuation | Auto | | |
| 2 | Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP | | |
| | Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP | | |
| | Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP | | |

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5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 10H2. The www.wsct-cert.com For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested which and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

No deviation



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Note: 1.All the modes have been investigated, and only worst mode is presented in this report. 2.Over=Reading Level+ Correct Factor - Limit.

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For Question,

5.2.5.2 TEST RESULTS (1GHz to 25GHz)

| This is the worst pattern data | | | | | | | | |
|--------------------------------|--------|------------|-------------------------|-----------|-------------------------|--------|----------|----------|
| Temperature | 20 °C | 20 °C/5/7° | | | imidity | 48% | | 5 |
| Pressure | 1010 h | 1010 hPa | | Test Mode | | Mode 3 | | |
| | | | $\overline{\mathbf{V}}$ | | $\overline{\mathbf{V}}$ | | | |
| Freq. | Ant. | Emis | sion | Limi | | Over | (dB) | |
| (MHz) | Pol. | Level(| dBuV) | 3m(dBu) | V/m) | | | |
| | H/V | PK | AV | PK | AV | PK | AV | - |
| 1463.21 | V | 60.78 | 40.22 | 74 | 54 | -13.22 | -13.78 | |
| 2546.62 | V | 58.73 | 40.89 | 74 | 54 | -15.27 | -13.11 | \wedge |
| 1693.21 | H | 59.11 | 40.17 | 74 | 54 | -14.89 | -13.83 🧹 | |
| 2318.35 | H | 58.69 | 39.69 | 5674 | 54 | -15.31 | -14.31 | 5 |
| | | | | | | | | |

Remark:

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All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

---END OF REPORT---

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Certification

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