

# FCC NFC RF Exposure Report

For

**TECNO MOBILE LIMITED**

**FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET**

**FOTAN NT HONGKONG**

**Model: CN5c**

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Report Number: WSCT-ANAB-R&E251100089A-NFC RF Exposure

Report Date: 15 December 2025

FCC ID: 2ADYY-CN5C

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## Modified History

| REV.    | Modification Description    | Issued Date      | Remark    |
|---------|-----------------------------|------------------|-----------|
| REV.1.0 | Initial Test Report Release | 15 December 2025 | Li Huaibi |
|         |                             |                  |           |

## 1 General information

### 1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

2. When NFC is working, other wireless functions will not transmit.

## 1.2 EUT Information

| Device Information:                     |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                           | Mobile Phone                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Model:                                  | CN5c                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Trade Name:                             | TECNO                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device Type:                            | Portable device                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Exposure Category:                      | uncontrolled environment / general population                                                                                                                                                                                                                                                                                                                                                                                                 |
| Production Unit or Identical Prototype: | Production Unit                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Software version :                      | CN5c-16.1.0                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hardware version:                       | V1.3                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NFC Antenna Type :                      | Coil Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device Operating Configurations:        |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Modulation:                             | ASK(NFC)                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operation Frequency:                    | NFC: 13.553-13.567MHz(TX/RX)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Source:                           | Rechargeable Li-ion Polymer Battery: BL-60AT(Zhejiang Sunwoda Electronic Co.,Ltd.)<br>Nominal Voltage: 3.92V<br>Rated Capacity: 5990mAh/23.49Wh<br>Typical Capacity: 6150mAh/24.11Wh<br>Limited Charge Voltage: 4.53V<br>Rechargeable Li-ion Polymer Battery: BL-60AT(Dongguan Amperex Technology Limited)<br>Nominal Voltage: 3.92V<br>Rated Capacity: 5990mAh/23.49Wh<br>Typical Capacity: 6150mAh/24.11Wh<br>Limited Charge Voltage: 4.53V |

## 2 Testing laboratory

|            |                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site  | World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.                                                                        |
| Laboratory | Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyang Street, Bao'an District, Shenzhen City, Guangdong Province, China |
| Tel:       | +86-755-26996192                                                                                                                                |
| Fax:       | +86-755-86376605                                                                                                                                |

## 3 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:2017.

|        |                                    |
|--------|------------------------------------|
| USA    | ANAB - Certificate Number: AT-3951 |
| China  | CNAS (Registration Number: L3732)  |
| Canada | ISED(CAB identifier:CN0178)        |

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.wsct-cert.com>

## 4 Applicant and Manufacturer

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Applicant/Client Name: | TECNO MOBILE LIMITED                                                                    |
| Applicant Address:     | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| Manufacturer Name:     | TECNO MOBILE LIMITED                                                                    |
| Manufacturer Address:  | FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |

## 5 Test standards:

| No. | Identity           | Document Title                                                 |
|-----|--------------------|----------------------------------------------------------------|
| 1   | 47 CFR Part 2.1093 | Radiofrequency radiation exposure evaluation: portable devices |
| 2   | KDB447498 D01      | General RF Exposure Guidance v06                               |

## 6 Test result

### I. According KDB 447498 D01 4.3.1 General SAR test exclusion guidance

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

a) For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

1).f (GHz) is the RF channel transmit frequency in GHz

2) Power and distance are rounded to the nearest mW and mm before calculation

3) The result is rounded to one decimal place for comparison

4) The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 according to 4.1 f) is applied to determine SAR test exclusion.

b) For 100 MHz to 6 GHz and test separation distances  $> 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

1)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance } 50 \text{ mm}) \cdot (f \text{ (MHz)} / 150)]\}$  mW, for 100 MHz to 1500 MHz

2)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$  mW, for  $> 1500$  MHz and  $\leq 6$  GHz

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

1) For test separation distances  $> 50$  mm and  $< 200$  mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f \text{ (MHz)})]$

2) For test separation distances  $\leq 50$  mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$

3) 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 SAR test results below 100 MHz to be acceptable.

## Appendix C

### SAR Test Exclusion Thresholds for $< 100$ MHz and $< 200$ mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz  | $< 50$ | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  | 190  | mm |
|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 100  | 237    | 474  | 481  | 487  | 494  | 501  | 507  | 514  | 521  | 527  | 534  | 541  | 547  | 554  | 561  | 567  | mW |
| 50   | 308    | 617  | 625  | 634  | 643  | 651  | 660  | 669  | 677  | 686  | 695  | 703  | 712  | 721  | 729  | 738  |    |
| 10   | 474    | 948  | 961  | 975  | 988  | 1001 | 1015 | 1028 | 1041 | 1055 | 1068 | 1081 | 1095 | 1108 | 1121 | 1135 |    |
| 1    | 711    | 1422 | 1442 | 1462 | 1482 | 1502 | 1522 | 1542 | 1562 | 1582 | 1602 | 1622 | 1642 | 1662 | 1682 | 1702 |    |
| 0.1  | 948    | 1896 | 1923 | 1949 | 1976 | 2003 | 2029 | 2056 | 2083 | 2109 | 2136 | 2163 | 2189 | 2216 | 2243 | 2269 |    |
| 0.05 | 1019   | 2039 | 2067 | 2096 | 2125 | 2153 | 2182 | 2211 | 2239 | 2268 | 2297 | 2325 | 2354 | 2383 | 2411 | 2440 |    |
| 0.01 | 1185   | 2370 | 2403 | 2437 | 2470 | 2503 | 2537 | 2570 | 2603 | 2637 | 2670 | 2703 | 2737 | 2770 | 2803 | 2837 |    |

## II. According to the ANSI C63.10 clause 11.12.2.2:

The general procedure for conducted measurements in restricted bands is as follows:

- Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).
- Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies  $\leq 30$  MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies  $> 1000$  MHz).
- For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).
- Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log D + 104.8$$

| Mode                                                                                                                                                                                                       | f (MHz) | Max. E-Field strength (dBuV/m) | D (m) | Ground reflection factor (dB) | EIRP (dBm) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------|-------|-------------------------------|------------|
| NFC (13.56MHz)                                                                                                                                                                                             | 13.56   | 63.73                          | 3     | 6                             | -25.53     |
| Note:<br>1. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies $\leq 30$ MHz).<br>2. $\text{EIRP} = 63.73 + 20 \cdot \log(3) - 104.8 + 6 = -25.53 \text{ (dBm)}$ |         |                                |       |                               |            |

Estimated SAR:  $\text{SAR}_{\text{test}} = 1.6 \cdot \text{P}_{\text{ant}} / \text{P}_{\text{th}}$  [W/kg]

| Estimated SAR               | 1.6 · P <sub>ant</sub> / P <sub>th</sub> [W/kg] |                         |          |
|-----------------------------|-------------------------------------------------|-------------------------|----------|
| P <sub>meas.</sub> (dBm)    | -25.53                                          | P <sub>meas.</sub> (mW) | 0.002801 |
| P <sub>th.</sub> (mW)       | 474mW                                           |                         |          |
| NFC Estimated 1g SAR [W/kg] | <0.001                                          |                         |          |

## 7 Conclusion

The test result is passed.

--END OF REPORT--