

PART 0 SAR TEST REPORT

| | |
|-------------------|------------------------|
| Applicant | Honor Device Co., Ltd. |
| FCC ID | 2AYGCMTN-NX3 |
| Product | Smart Phone |
| Model | MTN-NX3 |
| Report No. | EFTA25070279-IE-01-S1 |
| Issue Date | September 8, 2025 |

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **IEEE 1528-2013, ANSI C95.1: 1992, IEEE C95.1: 1991**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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1.4 Laboratory Environment

| | |
|--|---------------------------|
| Temperature | Min. = 18°C, Max. = 25 °C |
| Relative humidity | Min. = 30%, Max. = 70% |
| Ground system resistance | < 0.5 Ω |
| Ambient noise is checked and found very low and in compliance with requirement of standards | |
| Reflection of surrounding objects is minimized and in compliance with requirement of standards | |

2 Description of Equipment Under Test

Client Information

| | |
|----------------------|--|
| Applicant | Honor Device Co., Ltd. |
| Applicant address | Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China |
| Manufacturer | Honor Device Co., Ltd. |
| Manufacturer address | Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China |

General Technologies

| | | | |
|---|---|----------------------------------|-----|
| Application Purpose | Original Grant | | |
| EUT Stage | Identical Prototype | | |
| Model | MTN-NX3 | | |
| IMEI | Battery1 | 867306080009171; 867306080011466 | |
| | Battery2 | 867306080010716; 867306080013009 | |
| | Configuration 2 | 867306080017208; 867306080018123 | |
| | Configuration 3 | 867306080017364; 867306080018289 | |
| Hardware Version | HN2MTNM | | |
| Software Version | 9.0.0.102(C900E100R1P1) | | |
| Antenna Type | Internal Antenna | | |
| Device Class | B | | |
| Wi-Fi Hotspot | Wi-Fi 2.4G Wi-Fi 5G U-NII-1&U-NII-3 | | |
| Power Class | GSM 850: 4 GSM 1900: 1 WCDMA Band II/IV/V: 3 LTE FDD 2/4/5/7/12/13/17/26/66: 3 LTE TDD 38: 3 LTE TDD 41: 2 NR n2/n7/n38/n66: 3 NR n41/n78: 2 | | |
| Power Level | GSM 850: level 5 GSM 1900: level 0 WCDMA Band II/IV/V: all up bits LTE FDD 2/4/5/7/12/13/17/26/66: max power LTE TDD 38/41: max power NR n2/n7/n38/41/n66/n78: max power | | |
| EUT Accessory | | | |
| Accessory | Model | Manufacture | No. |
| Battery | HB5668A0EIW | Desay | 1 |
| | HB5668A0EIW | Sunwoda | 2 |
| Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. | | | |

Wireless Technology and Frequency Range

| Wireless Technology | | Modulation | Operating mode | Tx (MHz) | | |
|---------------------|---|--|--|----------------------------|--|--|
| GSM | 850 | Voice(GMSK) GPRS(GMSK) EGPRS(GMSK,8PSK) | <input type="checkbox"/> Multi-slot Class:8-1UP <input type="checkbox"/> Multi-slot Class:10-2UP <input checked="" type="checkbox"/> Multi-slot Class:12-4UP <input type="checkbox"/> Multi-slot Class:33-4UP | 824 ~ 849 | | |
| | 1900 | | | 1850 ~ 1910 | | |
| | Does this device support DTM (Dual Transfer Mode)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | |
| WCDMA | Band II | QPSK | HSDPA UE Category:10 HSUPA UE Category:6 | 1850 ~ 1910 | | |
| | Band IV | | | 1710 ~ 1755 | | |
| | Band V | | | 824 ~ 849 | | |
| LTE | FDD 2 | QPSK, 16QAM, 64QAM, 256QAM | Rel.15 /Category 12 | 1850 ~ 1910 | | |
| | FDD 4 | | | 1710 ~ 1755 | | |
| | FDD 5 | | | 824 ~ 849 | | |
| | FDD 7 | | | 2500 ~ 2570 | | |
| | FDD 12 | | | 699 ~ 716 | | |
| | FDD 13 | | | 777 ~ 787 | | |
| | FDD 17 | | | 704 ~ 716 | | |
| | FDD 26 | | | 814 ~ 849 | | |
| | TDD 38 | | | 2570 ~ 2620 | | |
| | TDD 41 | | | 2496 ~ 2690 | | |
| | FDD 66 | | | 1710 ~ 1780 | | |
| | Does this device support Carrier Aggregation (CA) <input checked="" type="checkbox"/> Yes downlink only <input type="checkbox"/> No | | | | | |
| | Does this device support SV-LTE (1xRTT-LTE)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | |
| NR | n2 | CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM; DFT-s OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM | Rel.15 | 1850 ~ 1910 | | |
| | n7 | | | 2500 ~ 2570 | | |
| | n38 | | | 2570 ~ 2620 | | |
| | n41 | | | 2496 ~ 2690 | | |
| | n66 | | | 1710 ~ 1780 | | |
| | n78 | | | 3450 ~ 3550 | | |
| ENDC | / | DC_2A_n7A; DC_2A_n78A; DC_4A_n38A; DC_4A_n41A; DC_4A_n78A; DC_5A_n7A; DC_5A_n78A; DC_7A_n66A; DC_7A_n78A; DC_38A_n78A; DC_66A_n7A; DC_66A_n78A | | | | |
| Bluetooth | 2.4G | Version 5.2 BR/EDR + LE | | 2402 ~2480 | | |
| Wi-Fi | 2.4G | DSSS, OFDM, OFDMA | 802.11b/g/n/ax HT20/HE20 | 2412 ~ 2462 | | |
| | | OFDM, OFDMA | 802.11n/ax HT40/HE40 | 2422 ~ 2452 | | |
| | 5G | OFDM, OFDMA | 802.11a HT20/ n HT20/ HT40/ ac VHT20/ VHT40/ VHT80/ ax HE20/ HE40/ HE80 | 5150 ~ 5350 5470 ~ 5850 | | |
| | | | Does this device support MIMO <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| NFC | 13.56MHz | | | | | |

Note:

1. The device incorporates the Smart Transmit (Smart TX) SAR averaging algorithm provided by Qualcomm

for cellular technologies. Smart Transmit controls the Tx power of the cellular based wireless device in real-time to maintain the time-averaged Tx power, and in turn, time-averaged RF exposure, below the predefined time-average power limit characterized for each technology and band.

3 Introduction

The Equipment Under Test (EUT) is a smartphone equipped with a Qualcomm modem that supports 2G/3G/4G network technologies and 5G NR Sub-6 GHz technology. Thanks to these modems, the Qualcomm Smart Transmit feature is enabled, which can control and manage transmission power in real time, ensuring that the time-averaged RF exposure always complies with the requirements of the Federal Communications Commission (FCC)

The Equipment Under Test (EUT) is a smartphone equipped with a Qualcomm modem that supports 2G/3G/4G network technologies and 5G NR Sub-6 GHz technology. Thanks to these modems, the Qualcomm Smart Transmit feature is enabled, which can control and manage transmission power in real time, ensuring that the time-averaged RF exposure always complies with the requirements of the Federal Communications Commission (FCC), i.e., SAR_design_target (< FCC SAR limit) for sub-6. This SAR characterization analysis is referred to as SAR Char, which will serve as an input parameter for the operation of the Qualcomm Smart Transmit feature and will be loaded and stored in the EUT via the Embedded File System (EFS).

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. while the validation of the time-averaging algorithm and the compliance status of WWAN technologies under dynamic (time-varying) transmission scenarios are described in the Part 2 report.

Nomenclature for Part 0 Report

| Term | Description |
|--------------------|---|
| P_{\max} | The time-averaged RF power which corresponds to SAR_design_target. |
| P_{limit} | Maximum target power level |
| SAR_design_target | The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties. |
| SAR Char | P_{limit} for all the technologies/bands for all applicable DSI |

4 SAR Characterization

4.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR is further grouped and determined for each or combined exposure scenario.

DSI and Corresponding Exposure Scenarios

| Scenario | Description |
|----------|----------------------------|
| DSI2 | Receiver on(Standalone) |
| DSI4 | Receiver off(Standalone) |
| DSI6 | Receiver on(WWAN+WLAN+BT) |
| DSI8 | Receiver on(WWAN+WLAN/BT) |
| DSI10 | Receiver off(WWAN+WLAN+BT) |
| DSI12 | Receiver off(WWAN+WLAN/BT) |
| DSI14 | Hotspot on |

4.2 SAR Design Target and Uncertainty

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer. To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

| Exposure conditions | Trigger Conditions | DSI | SAR design target | W/kg | Remark |
|-----------------------------|---|-----|-----------------------|------|----------------------------|
| Head | Rcv On | 2 | 1g SAR design target | 1.03 | For GSM & WCDMA & LTE & NR |
| Head | Rcv On+Wifi5G+BT | 6 | 1g SAR design target | N/A | For GSM & WCDMA & LTE & NR |
| Head | Rcv On+Wifi2.4G & Rcv On+Wifi5G & Rcv On+BT | 8 | 1g SAR design target | N/A | For GSM & WCDMA & LTE & NR |
| Body Worn | Rcv Off | 4 | 1g SAR design target | 0.90 | For GSM & WCDMA & LTE & NR |
| Body Worn | Rcv Off+Wifi5G+BT | 10 | 1g SAR design target | N/A | For GSM & WCDMA & LTE & NR |
| Body Worn | Rcv Off+Wifi2.4G & Rcv Off+Wifi5G & Rcv Off+BT | 12 | 1g SAR design target | N/A | For GSM & WCDMA & LTE & NR |
| hotspot | Hotspot On | 14 | 1g SAR design target | 0.89 | For GSM & WCDMA & LTE & NR |
| Product-specific 10g SAR | Rcv Off | 4 | 10g SAR design target | 1.83 | For GSM & WCDMA & LTE & NR |
| Product-specific 10g SAR | Rcv Off+Wifi5G+BT | 10 | 10g SAR design target | N/A | For GSM & WCDMA & LTE & NR |
| Product-specific 10g SAR | Rcv Off+Wifi2.4G & Rcv Off+Wifi5G & Rcv Off+BT | 12 | 10g SAR design target | N/A | For GSM & WCDMA & LTE & NR |

| Uncertainty category | Uncertainty dB 2/3/4/5G |
|----------------------|----------------------------|
| Device to device | 0.5 |
| Total uncertainty | 1 |

4.3 SAR Char

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating. Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the SAR_design_target. When Plimit < Pmax, Ppart0 was used as Plimit in the Smart Transmit EFS. When Plimit >Pmax and Ppart0=Pmax, calculated Pmax was used in the Smart Transmit EFS. All reported SAR obtained from the Ppart0 SAR tests was less than SAR_Design_target+ device uncertainty.

| Band | Antenna | Head | Body | WWAN +Wifi5G+BT Head | WWAN +Wifi 2.4G/5G/BT Head | WWAN +Wifi5G+BT Body | WWAN +Wifi 2.4G/5G/BT Body | Hotspot | Pmax (dBm) |
|-----------|---------|-------|-------|----------------------------|----------------------------------|----------------------------|----------------------------------|---------|---------------|
| | | DSI 2 | DSI 4 | DSI 6 | DSI 8 | DSI 10 | DSI 12 | DSI 14 | |
| GSM_B850 | 0 | 32.5 | 32.5 | 31.0 | 31.5 | 31.0 | 31.5 | 28.5 | 32.5 |
| GSM_B1900 | 0 | 29.5 | 29.5 | 28.0 | 28.5 | 28.0 | 28.5 | 25.5 | 29.5 |
| GSM_B1900 | 2 | 25.5 | 29.0 | 23.5 | 24.0 | 24.5 | 27.0 | 23.5 | 29.0 |
| WCDMA_B2 | 0 | 22.0 | 22.0 | 20.5 | 21.0 | 20.5 | 21.0 | 20.5 | 23.5 |
| WCDMA_B2 | 2 | 16.0 | 21.5 | 14.0 | 14.5 | 17.0 | 19.5 | 14.0 | 23.0 |
| WCDMA_B4 | 0 | 22.3 | 22.3 | 20.8 | 21.3 | 20.8 | 21.3 | 20.8 | 23.3 |
| WCDMA_B4 | 2 | 18.0 | 21.8 | 16.0 | 16.5 | 17.3 | 19.8 | 16.0 | 22.8 |
| WCDMA_B5 | 0 | 24.0 | 24.0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B2 | 0 | 22.0 | 22.0 | 20.5 | 21.0 | 20.5 | 21.0 | 20.5 | 23.5 |
| LTE_B2 | 2 | 16.5 | 22.0 | 14.5 | 15.0 | 17.5 | 20.0 | 14.5 | 23.0 |
| LTE_B4 | 0 | 22.5 | 22.5 | 21.0 | 21.5 | 21.0 | 21.5 | 21.0 | 23.5 |
| LTE_B4 | 2 | 18.2 | 22.0 | 16.2 | 16.7 | 17.5 | 20.0 | 16.2 | 23.0 |
| LTE_B5 | 0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B7 | 0 | 22.0 | 22.0 | 20.5 | 21.0 | 20.5 | 21.0 | 20.5 | 23.5 |
| LTE_B7 | 2 | 16.3 | 18.3 | 13.8 | 14.8 | 13.8 | 16.3 | 13.8 | 22.8 |
| LTE_B7 | 4 | 16.0 | 20.3 | 14.0 | 14.5 | 15.8 | 18.3 | 14.0 | 23.5 |
| LTE_B12 | 0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B13 | 0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B17 | 0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B26 | 0 | 24.0 | 24.0 | 22.5 | 23.0 | 22.5 | 23.0 | 22.5 | 24.0 |
| LTE_B66 | 0 | 22.5 | 22.5 | 21.0 | 21.5 | 21.0 | 21.5 | 21.0 | 23.5 |
| LTE_B66 | 2 | 18.5 | 22.0 | 16.5 | 17.0 | 17.5 | 20.0 | 16.5 | 23.0 |
| LTE_B38 | 4 | 17.5 | 23.0 | 15.5 | 16.0 | 18.5 | 21.0 | 15.5 | 23.5 |
| LTE_B38 | 5 | 18.6 | 19.6 | 15.1 | 17.1 | 15.1 | 17.6 | 15.1 | 19.6 |

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| | | | | | | | | | |
|----------|----|------|------|------|------|------|------|------|------|
| LTE_B38 | 0 | 21.2 | 21.2 | 19.7 | 20.2 | 19.7 | 20.2 | 19.7 | 21.2 |
| LTE_B38 | 2 | 17.9 | 20.2 | 15.7 | 16.4 | 15.7 | 18.2 | 15.7 | 20.2 |
| LTE_B41 | 4 | 19.3 | 23.9 | 17.3 | 17.8 | 19.4 | 21.9 | 17.3 | 25.3 |
| LTE_B41 | 5 | 19.9 | 21.4 | 16.9 | 18.4 | 16.9 | 19.4 | 16.9 | 21.4 |
| LTE_B41 | 0 | 23.0 | 23.0 | 21.5 | 22.0 | 21.5 | 22.0 | 21.5 | 23.0 |
| LTE_B41 | 2 | 19.7 | 21.2 | 16.7 | 18.2 | 16.7 | 19.2 | 16.7 | 22.0 |
| NR5G_N2 | 0 | 21.5 | 21.5 | 20.0 | 20.5 | 20.0 | 20.5 | 20.0 | 23.0 |
| NR5G_N2 | 2 | 15.7 | 21.0 | 13.7 | 14.2 | 16.5 | 19.0 | 13.7 | 22.5 |
| NR5G_N7 | 4 | 15.7 | 20.0 | 13.7 | 14.2 | 15.5 | 18.0 | 13.7 | 23.0 |
| NR5G_N7 | 0 | 21.2 | 21.2 | 19.7 | 20.2 | 19.7 | 20.2 | 19.7 | 23.0 |
| NR5G_N7 | 2 | 15.8 | 17.3 | 12.8 | 14.3 | 12.8 | 15.3 | 12.8 | 22.3 |
| NR5G_N66 | 0 | 21.8 | 21.8 | 20.3 | 20.8 | 20.3 | 20.8 | 20.3 | 23.0 |
| NR5G_N66 | 2 | 17.0 | 20.7 | 15.0 | 15.5 | 16.2 | 18.7 | 15.0 | 22.5 |
| NR5G_N38 | 4 | 15.8 | 19.3 | 13.8 | 14.3 | 14.8 | 17.3 | 13.8 | 23.3 |
| NR5G_N38 | 5 | 15.9 | 19.4 | 13.9 | 14.4 | 14.9 | 17.4 | 13.9 | 19.4 |
| NR5G_N38 | 0 | 20.2 | 20.2 | 18.7 | 19.2 | 18.7 | 19.2 | 18.7 | 21.0 |
| NR5G_N38 | 2 | 16.0 | 17.7 | 13.2 | 14.5 | 13.2 | 15.7 | 13.2 | 20.0 |
| NR5G_N41 | 4 | 15.8 | 19.3 | 13.8 | 14.3 | 14.8 | 17.3 | 13.8 | 25.3 |
| NR5G_N41 | 5 | 16.4 | 21.4 | 14.4 | 14.9 | 16.9 | 19.4 | 14.4 | 21.4 |
| NR5G_N41 | 0 | 20.5 | 20.5 | 19.0 | 19.5 | 19.0 | 19.5 | 19.0 | 23.0 |
| NR5G_N41 | 2 | 16.0 | 17.5 | 13.0 | 14.5 | 13.0 | 15.5 | 13.0 | 22.0 |
| NR5G_N78 | 7 | 13.5 | 18.0 | 11.5 | 12.0 | 13.5 | 16.0 | 11.5 | 26.0 |
| NR5G_N78 | 2 | 16.5 | 18.2 | 13.7 | 15.0 | 13.7 | 16.2 | 13.7 | 23.5 |
| NR5G_N78 | 6 | 17.0 | 20.3 | 15.0 | 15.5 | 15.8 | 18.3 | 15.0 | 25.0 |
| NR5G_N78 | 12 | 15.2 | 17.7 | 13.2 | 13.7 | 13.2 | 15.7 | 13.2 | 23.2 |

5 Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.