

RF Exposure Evaluation Report

Report No.: 2405V85580EF

Applicant: SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO.,LTD

Address: Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, 518110 China

Product Name: Tablet

Product Model: N02 Pro

Multiple Models: Q16, Q17,N02, N04, N05, N06, T702 Pro

Trade Mark: N/A

FCC ID: 2BDRG-T0012407

Standards: 47 CFR §1.1310
KDB 447498 D01 General RF Exposure Guidance v06

Test Date: 2024-08-13

Test Result: Complied

Report Date: 2024-08-26

Reviewed by:

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Prepared by:

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Revision History

| Version No. | Issued Date | Description |
|-------------|-------------|-------------|
| 00 | 2024-08-26 | Original |

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1 General Information

1.1 Client Information

| | |
|---------------|--|
| Applicant: | SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO.,LTD |
| Address: | Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, 518110 China |
| Manufacturer: | SHEN ZHEN XIN SHENG SHANG TECHNOLOGY CO.,LTD |
| Address: | Room 303, Building 9, No. 54-6, Guanlan Avenue, Xinhe Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, 518110 China |

1.2 Product Description of EUT

The EUT is Tablet that contains Classic Bluetooth(BDR/EDR), BLE, 2.4G and 5G WLAN radios.

| | |
|--------------------------------|---|
| Sample Serial Number | 2ODG-4, 2ODG-1(assigned by WATC) |
| Sample Received Date | 2024-07-12 |
| Sample Status | Good Condition |
| Frequency Range | BT: 2402MHz - 2480MHz BLE: 2402MHz - 2480MHz 2.4G WLAN: 2412MHz - 2462MHz 5G WLAN: 5150MHz - 5250MHz |
| Maximum Conducted Output Power | BT: 8.82dBm BLE: 7.03dBm 2.4G WLAN: 23.69dBm 5G WLAN: 13.61dBm |
| Modulation Technology | GFSK, $\pi/4$ DQPSK, 8DPSK DSSS, OFDM, OFDMA |
| Antenna Gain [#] | 2.4GHz Band: 0.53dBi 5GHz Band: 0.28dBi |
| Spatial Streams | SISO (1TX, 1RX) |
| Power Supply | DC 5V from adapter or DC 3.8V from battery |
| Adapter Information | Model: FX2U-050200U Input: AC100-240V, 50/60Hz, 0.4A Output: DC 5V/2A |
| Modification | Sample No Modification by the test lab |

1.3 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

2 RF Exposure Evaluation

2.1 Standard

According to §1.1310, radio frequency devices shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 5) in section 4.1 is applied to determine SAR test exclusion.

2.2 Result

| Radio | Frequency (MHz) | Maximum Conducted Power including Tune-up Tolerance | | Min. test separation distance (mm) | Result (1-g SAR) | Exclusion Limit (1-g SAR) | Verdict |
|-----------|-----------------|---|-------|------------------------------------|------------------|---------------------------|---------------|
| | | (dBm) | (mW) | | | | |
| BT | 2402-2480 | 9.0 | 7.94 | 5 | 2.5 | 3.0 | Pass |
| BLE | 2402-2480 | 7.5 | 5.62 | 5 | 1.8 | 3.0 | Pass |
| 2.4G WLAN | 2412-2462 | 13.0 | 19.95 | 5 | 6.26 | 3.0 | Need SAR test |
| 5G WLAN | 5150-5250 | 14.0 | 25.12 | 5 | 11.51 | 3.0 | Need SAR test |

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

For BT/BLE, No need standalone SAR test.

For 2.4G/5G WLAN, SAR test are required, please refer to the SAR test report: 2401V85581E-SA

Result: Complied.

---End of Report---