

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:

Abel Chen

Approved by:

Jacob Kong

Abel Chen
Project Engineer

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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@wutc.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

- $f(\text{GHz})$ 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---