


 Report No.: ZEWM2303000361RG01
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RF Exposure Evaluation Report

Application No.: ZEWM2303000361RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
EUT Description: Smart Phone
Model No.: U680AA, U680AC
FCC ID: XD6U680AA
 FCC 47 CFR Part 1.1307
Standards: FCC 47 CFR Part 1.1310
 FCC KDB 447498 D01 v06
Date of Receipt: 2023/04/20
Date of Issue: 2023/06/29

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Ervin Li
Regulatory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Wireless Laboratory

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/29		Original

Prepared By	 _____ (Dee Zheng) / Test Engineer
Checked By	 _____ (Daniel Wang) / Reviewer



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Shenzhen Branch
Wireless Laboratory

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2 General Information

2.1 Client Information

Applicant:	Shenzhen Tinno Mobile Technology Corp.
Address of Applicant:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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2.3 General Description of EUT

EUT Description:	Smart Phone
Model No.:	U680AA, U680AC
Hardware Version:	V1.0
Software Version:	U680AAV01.02.10
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.


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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limit:

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,

For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz

The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)] \text{ mW}$, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.

Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

a): $[3/\sqrt{0.1}] \cdot 50 = 474.3416\text{mW}$

b): $474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$

c): $474.3416 \cdot [1 + \log(100/13.56)] = 885.9470\text{mW}$

d): $885.9470 \cdot 0.5 = 442.974\text{mW}$

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW(equal to 26.464dBm).

3.1.2 Test Result

Also, the maximum power of NFC is -40.61dBm (converted from 55.62 dBuV/m at 3m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

---End of Report---

