



# RF EXPOSURE REPORT

Report No.: 20230817G11026X-W12

**Product Name:** Mobile Data terminal

Model No.: CT58, CT58S, CT58C, CT58H, CT58A, CT58X, CT58D, CT58R, D

T58, DT58C, DT58S, DT58D, HS510, HS580, HB510, HB580

FCC ID: SWSCT58

Applicant: UROVO TECHNOLOGY CO., LTD.

Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road, Nanshan

District, Shenzhen, Guangdong, China

**Dates of Testing:** 08/31/2023 - 09/20/2023

**Issued by:** CCIC Southern Testing Co., Ltd.

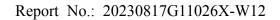
Electronic Testing Building, No. 43 Shahe Road, Xili Street,

Lab Location:

Nanshan District, Shenzhen, Guangdong, China.

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# **Test Report**

Product.....: Mobile Data terminal

Brand Name....: UROVO

Trade Name .....: UROVO

Applicant.....: UROVO TECHNOLOGY CO., LTD.

Nanshan District, Shenzhen, Guangdong, China

Manufacturer.....: UROVO TECHNOLOGY CO., LTD.

Manufacturer Address........: 36F, High-Tech Zone Union Tower, No. 63, Xuefu Road,

Nanshan District, Shenzhen, Guangdong, China

Test Standards.....: 47 CFR Part 2.1093

Test Result.....: Pass

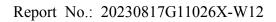
Chuiwang Zhang, Test Engineer

Chris You, Senior Engineer

**Approved by.....:** 2023.09.21

Yang Fan, Manager

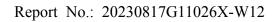
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Change History					
Issue Date Reason for change					
1.0	2023.09.21	First edition			



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### 1. GENERAL INFORMATION

## 1.1. EUT Description

Product Name	Mobile Data terminal	
Device Type	Portable Device	
EUT supports Radios application	NFC	
Frequency Range	13.553~13.567MHz	
Modulation Type	ASK	
Antenna gain 0 dBi		
Antenna Type	Internal Antenna	

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: For model differences, the electrical circuit design, layout, components used and internal wiring, with only difference in model name.



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### 1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title		
1	47 CFR Part 1	Practice and Procedure		
2	Frequency Allocations and Radio Treaty Matters; C Rules and Regulations			
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices		

#### 1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Sep. 30th, 2023.

**ISED Registration: 11185A** 

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Sep. 30th, 2023.

CAB number: CN0064

**A2LA Code: 5721.01** 

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

#### 1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.		
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan		
	District, Shenzhen, Guangdong, China		



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## 2. Technical Requirements Specification in CFR Title 47 Part 2.1093

#### 2.1. Evaluation method

According to KDB 447498 D01 General RF Exposure Guidance v06, clause 4.3. General SAR test exclusion guidance:

- 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.

#### 2.2. Evaluation Results

Frequency	Field strength	Radiated Power	Conducted power	Exclusion Threshold
(MHz)	$(dB\mu V/m@3m)$	(EIRP)(mW)	(mW)	Level(mW)
13.56	4.42	0	0	443

Notes:

Conducted power = Radiated Power (EIRP) - Antenna Gain.

 $EIRP[dBm] = E[dB\mu V/m] - 95.2 = 4.42dB\mu V/m - 95.2 = -90.78dBm \approx 0mW.$ 

Exclusion Threshold Level =  $[474]*(1+\log(100/f_{(MHz)}))]/2 = 433$ mW.

#### 2.3. Conclusion

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

\*\* END OF REPORT \*\*