



# TEST REPORT

## No.I22Z61533-WMD07

for

**Wingtech Group (Hong Kong) Limited**

**5G Mobile Phone**

**Model Name: Celero5G+**

**FCC ID: 2APXW-CELERO5GPLUS**

with

**Hardware Version: V1.0**

**Software Version: Celero5GPlus\_0.01.03**

**Issued Date: 2023-05-11**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

**Test Laboratory:**

**CTTL, Telecommunication Technology Labs, CAICT**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I22Z61533-WMD07	Rev.0	1 <sup>st</sup> edition	2023-05-11

Note: the latest revision of the test report supersedes all previous version.

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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China 100191

### 1.3. Testing Environment

Normal Temperature: 15-35°C  
Relative Humidity: 20-75%

### 1.4. Project Data

Testing Start Date: 2023-04-10  
Testing End Date: 2023-04-20

### 1.5. Signature



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**Dong Yuan**  
**(Prepared this test report)**



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**Zhou Yu**  
**(Reviewed this test report)**



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**Zhao Hui Lin**  
**Deputy Director of the laboratory**  
**(Approved this test report)**



## **2. Client Information**

### **2.1. Applicant Information**

Company Name: Wingtech Group (Hong Kong) Limited  
Address /Post: Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,  
HK  
Contact: sharui  
Email: sharui@wingtech.com  
Telephone: +86-21-53529900

### **2.2. Manufacturer Information**

Company Name: Wingtech Group (Hong Kong) Limited  
Address /Post: Flat/RM 1802 18/F, Podium Plaza, 5 Hanoi Road, Tsim Sha Tsui, KL,  
HK  
Contact: sharui  
Email: sharui@wingtech.com  
Telephone: +86-21-53529900

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

Description	5G Mobile Phone
Model Name	Celero5G+
FCC ID	2APXW-CELERO5GPLUS
Antenna	Embedded
Extreme vol. Limits	3.6VDC to 4.2VDC (nominal: 3.85VDC)
Extreme temp. Tolerance	-10°C to +55°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

#### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>	<b>Date of receipt</b>
UT112a	869183060009887	V1.0	Celero5GPlus_0.01.03	2022-09-13

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>
AE1	Battery
AE1	
Model	TM001
Manufacturer	Dongguan Veken Battery Co., Ltd.
Capacitance	5000mAh

\*AE ID: is used to identify the test sample in the lab internally.

## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

<b>Reference</b>	<b>Title</b>	<b>Version</b>
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-21 Edition
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR CITIZENS BROADBAND RADIO SERVICE DEVICES AUTHORIZED UNDER PART 96	v03
WINNF-TS-0122	Test and Certification for Citizens Broadband Radio Service (CBRS); Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT)	v1.0.2

Note: WINNF-TS-0122 is not in the scope of ISO 17025 accreditation by NVLAP.



## 5. Summary Of Test Result

n48

Items	Test Name	Clause in FCC rules	Verdict
1	End User Device Additional Requirement (CBSD Protocol)	96.47	P

Terms used in Verdict column

P	Pass. The EUT complies with the essential requirements in the standard.
NP	Not Performed. The test was not performed by CTTL.
NA	Not Applicable. The test was not applicable.
BR	Re-use test data from basic model report.
F	Fail. The EUT does not comply with the essential requirements in the standard.

All the test results are based on normal power.

n48 is tested by power class 3.

NR modulation: DFT-s-OFDM pi/2 BPSK; QPSK; 16QAM; 64QAM; 256QAM

CP-OFDM QPSK; 16QAM; 64QAM; 256QAM

NR BW: 10/20/40MHz for n48.



## 6. Test Equipment Utilized

Description	Type	Series Number	Manufacture	Cal Due Date	Calibration Interval
Signal&Spectrum Analyzer	FSW	104038	R&S	2023-06-20	1 year

## **Annex A: Measurement Results**

### **A.1 End User Device Additional Requirement (CBSD Protocol)**

#### **A.1.1 Measurement Limit**

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

#### **A.1.2 Measurement Method**

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. During testing, the EUT is connected to a certified CBSD (Baicells BSC7048A243 FCC ID: 2AG32 BSC7048A243) as a companion device to show compliance with Part 96.47.

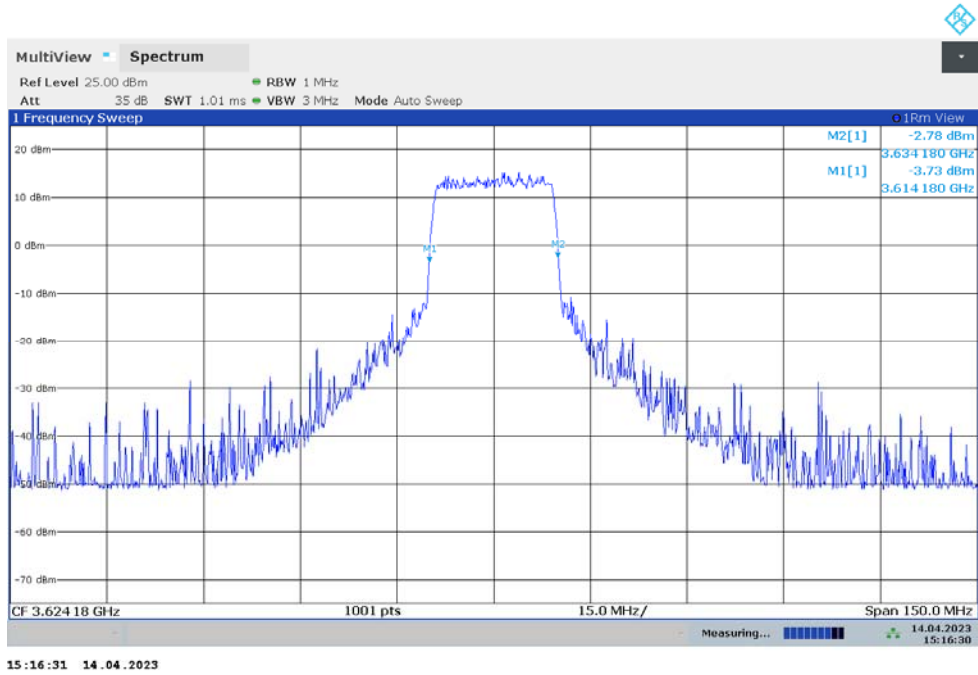
1. Run#1:

- a. Setup frequency with 3614.18MHz – 3634.18MHz.
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

2. Run#2:

- a. Setup frequency with 3659.18MHz – 3679.18MHz.
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

RUN#1:



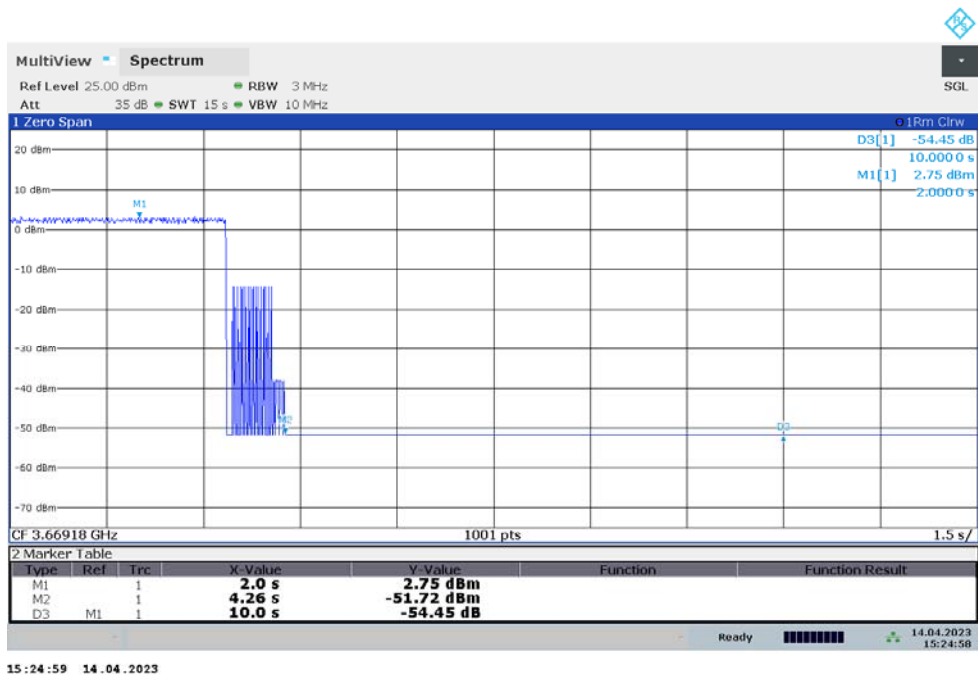
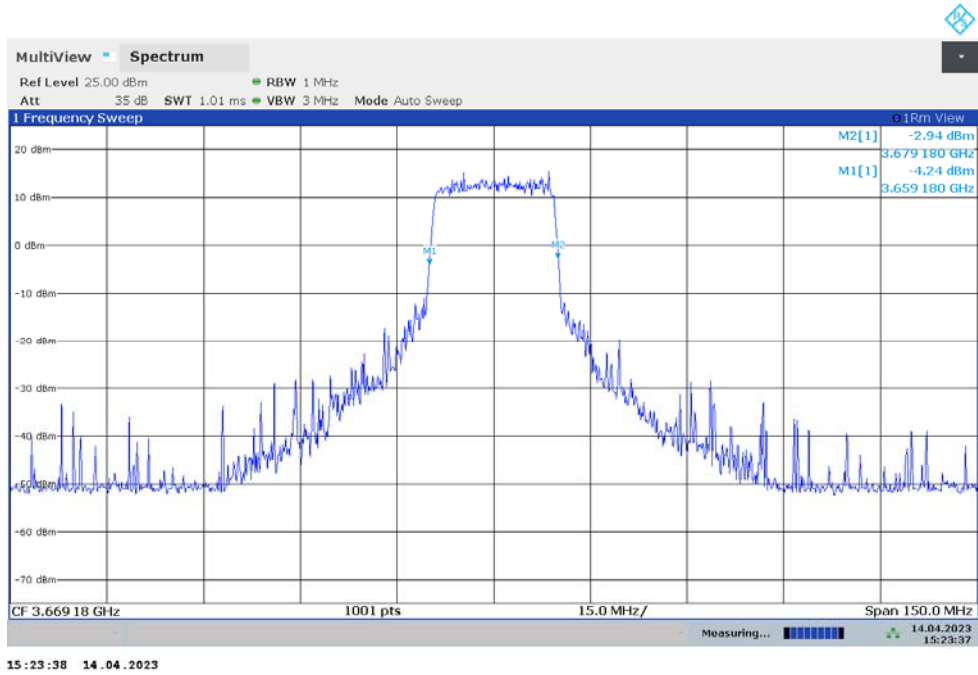
Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

RUN#2:






Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT

## Annex B: Accreditation Certificate

<p><b>United States Department of Commerce National Institute of Standards and Technology</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"><div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">NVLAP<sup>®</sup></div><div style="text-align: center;"></div></div> <hr/> <p style="text-align: center;"><b>Certificate of Accreditation to ISO/IEC 17025:2017</b></p> <hr/> <p style="text-align: center;">NVLAP LAB CODE: 600118-0</p> <p style="text-align: center;"><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p> <p style="text-align: center;"><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p style="text-align: center;"><b>Electromagnetic Compatibility &amp; Telecommunications</b></p> <p style="text-align: center;"><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).</i></p> <table style="width: 100%; border: none;"><tr><td style="width: 40%; border: none;"><hr/><p style="text-align: center;">2022-10-01 through 2023-09-30 <i>Effective Dates</i></p></td><td style="width: 20%; border: none; text-align: center;"></td><td style="width: 40%; border: none; text-align: right;"><hr/><p style="text-align: center;"><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p></td></tr></table>		<hr/> <p style="text-align: center;">2022-10-01 through 2023-09-30 <i>Effective Dates</i></p>		<hr/> <p style="text-align: center;"><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>
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**\*\*\*END OF REPORT\*\*\***