



Report No.: FG2O2606

FCC Part 96.47 TEST REPORT

FCC ID : 2ABZ2-AA516 : Mobile Phone Equipment **Brand Name** : 1+, ONEPLUS

Model Name : CPH2451

Applicant : OnePlus Technology (Shenzhen) Co., Ltd.

> 18C02, 18C03, 18C04, and 18C05, Shum Yip **Terra Building, Binhe Avenue North, Futian** District, Shenzhen, Guangdong, P.R. China.

: OnePlus Technology (Shenzhen) Co., Ltd. Manufacturer

> 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

Standard : FCC Part 96.47

RF Interface NR n48

The product was received on Nov. 16, 2022 and testing was performed from Nov. 23, 2022 and completed on Nov. 23, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

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Sporton International Inc. Wensan Laboratory

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No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FAX: 886-3-327-0855 : Dec. 19, 2022 Issue Date : 01

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History of this test report

Report No. : FG2O2606

Report No.	Version	Description	Issue Date	
FG2O2606	01	Initial issue of report	Dec. 19, 2022	

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items		Remark	
3	96.47	End User Device additional requirement	Pass	-	

Declaration of Conformity:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Thomas Chen Report Producer: Lucy Wu

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1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be, NFC, and GNSS.

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302. Harrivadande, Williams College Co				
Product Feature				
	WWAN: Fixed Internal Antenna			
	WLAN 2.4GHz			
	<ant. 7="">: Fixed Internal Antenna</ant.>			
	<ant. 12="">: Fixed Internal Antenna</ant.>			
	WLAN 5GHz			
	<ant. 10="">: Fixed Internal Antenna</ant.>			
	<ant. 13="">: Fixed Internal Antenna</ant.>			
Antenna Type	WLAN 6GHz			
Antenna Type	<ant. 10="">: Fixed Internal Antenna</ant.>			
	<ant. 13="">: Fixed Internal Antenna</ant.>			
	Bluetooth			
	<ant. 7="">: Fixed Internal Antenna</ant.>			
	<ant. 12="">: Fixed Internal Antenna</ant.>			
	Bluetooth - LE: Fixed Internal Antenna			
	GPS / Glonass / BDS / Galileo : Fixed Internal Antenna			
	NFC: Fixed Internal Antenna			

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Laboratory

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855			
Test Site No.	Sporton Site No.			
rest Site No.	TH05-HY			
Test Engineer	Thomas Chen			
Temperature	22 ~ 25 °C			
Relative Humidity	41 ~ 45 %			

FCC designation No.: TW3786

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1.4 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

Remark:

 All test items were verified and recorded according to the standards and without any deviation during the test.

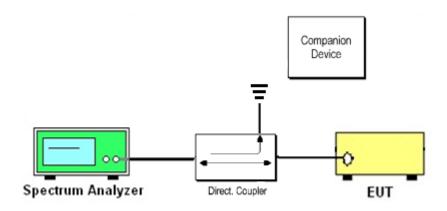
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2. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



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The companion device is certified NR CBSD (FCC ID: PIDAS2900)

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3 End User Device additional requirement

3.1 Test Requirement

FCC Part 96.47

- (a) 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.
- (1) 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.

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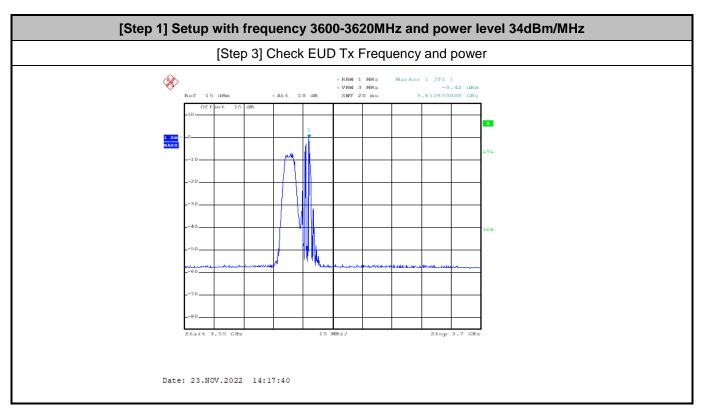
3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, use the certified Airspan NR CBSD (FCC ID: PIDAS2900) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

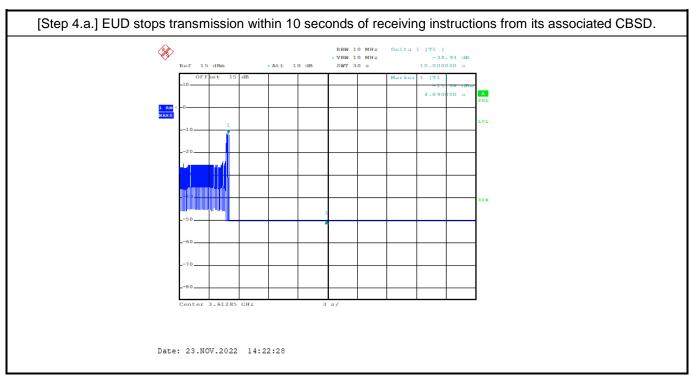
- 1. Setup with frequency 3600-3620MHz and power level 34dBm/MHz
- 2. Enable CBSD service from Airspan ACP management
- 3. Check EUD Tx Frequency and power
- 4. Disable CBSD service from Airspan ACP management
 - a. Check EUD stops transmission within 10seconds.
- 5. Setup with frequency 3670-3690MHz and power level 24dBm/MHz
- 6. Enable CBSD service from Airspan ACP management
- 7. Check EUD Tx Frequency and power
- 8. Disable CBSD service from Airspan ACP management
 - a. Check EUD stops transmission within 10seconds.

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3.3 Test Result

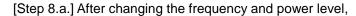


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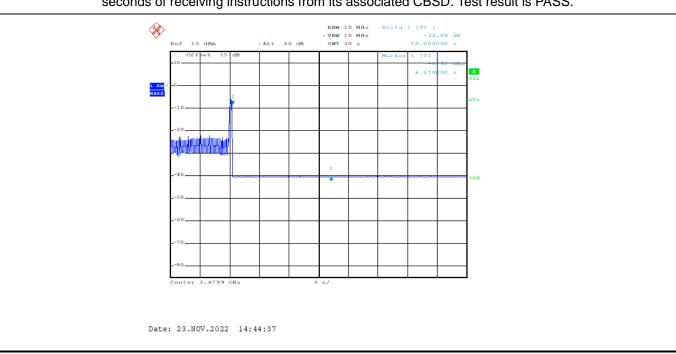
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Date: 23.NOV.2022 14:35:28

The module (EUT) discontinues operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.



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4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP30	101067	9kz~30GHz	Jan. 20, 2022	Nov. 23, 2022	Jan. 19, 2023	Conducted (TH05-HY)

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