



REPORT No.: SZ22120264W10

TEST REPORT

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

PRODUCT NAME : Mobile Phone

MODEL NAME : CPH2513, CPH2515

BRAND NAME : ONEPLUS

FCC ID : 2ABZ2-AA534

STANDARD(S) : 47 CFR Part 96.47

RECEIPT DATE : 2023-01-13

TEST DATE : 2023-02-23

ISSUE DATE : 2023-03-14

Edited by: Li Huaiejie
Li Huaiejie (Rapporteur)

Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.



Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Summary Test Results and Description	4
2.1. Applied Reference Documents	4
2.2. Test Conditions	4
2.3. Test Results Lists	4
2.4. Test Equipment list	4

Change History		
Version	Date	Reason for change
1.0	2023-03-14	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	OnePlus Technology (Shenzhen) Co., Ltd.
Applicant Address:	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Manufacturer:	OnePlus Technology (Shenzhen) Co., Ltd.
Manufacturer Address:	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
IMEI:	869320060047729	
Hardware Version:	11	
Software Version:	OxygenOS 13.1	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Support DL&UL	
Operation Band:	Band 48	
Frequency Range:	LTE Band 48	Tx: 3550MHz–3700MHz
		Rx: 3550MHz–3700MHz
Channel Bandwidth	LTE Band 48	5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 48	ANT 3: -3.5dBi; ANT 4: -3.5dBi; ANT 5: -3.5dBi; ANT 6: -3.5dBi



2. Summary Test Results and Description

2.1. Applied Reference Documents

Reference documents for testing:

Identity	Document Title
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
KDB 971168 D01	MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	30%-75%
Air Pressure:	98kPa-102kPa
Test Verdict:	PASS (P) Not Performed (NP) Not Applicable (NA) F(Fail)

2.3. Test Results Lists

No.	Test Description	Result
Part96.47	End User Device Additional Requirements (CBSD Protocol)	P

2.4. Test Equipment list

Description	Series Number	Manufacture	Cal Due Date	Calibration Interval
Spectrum Analyzer	MY51511149	Agilent	2023.07.03	1 year



Appendix A: Measurement Results

RUN#1

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

A. 11 Measurement Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD (Kingsignal LBS7320 FCC ID: 2AVFNLBS7320) as a companion device to show compliance with Part 96.47. 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 operation 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

1.Run#1:

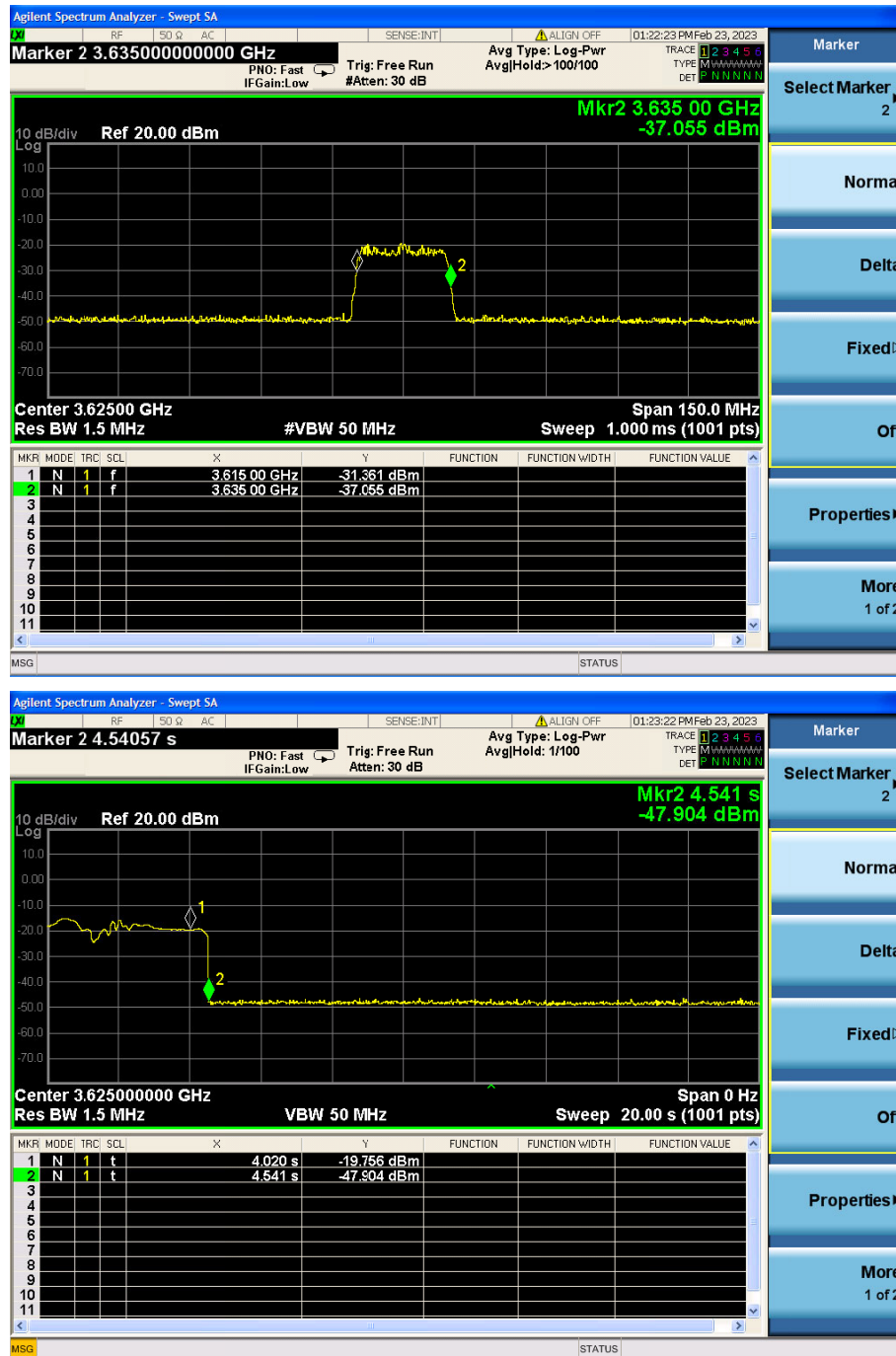
- a. Setup frequency with 3615MHz - 3635MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.

2.Run#2:

- a. Setup frequency with 3660MHz - 3680MHz
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s



Run#1



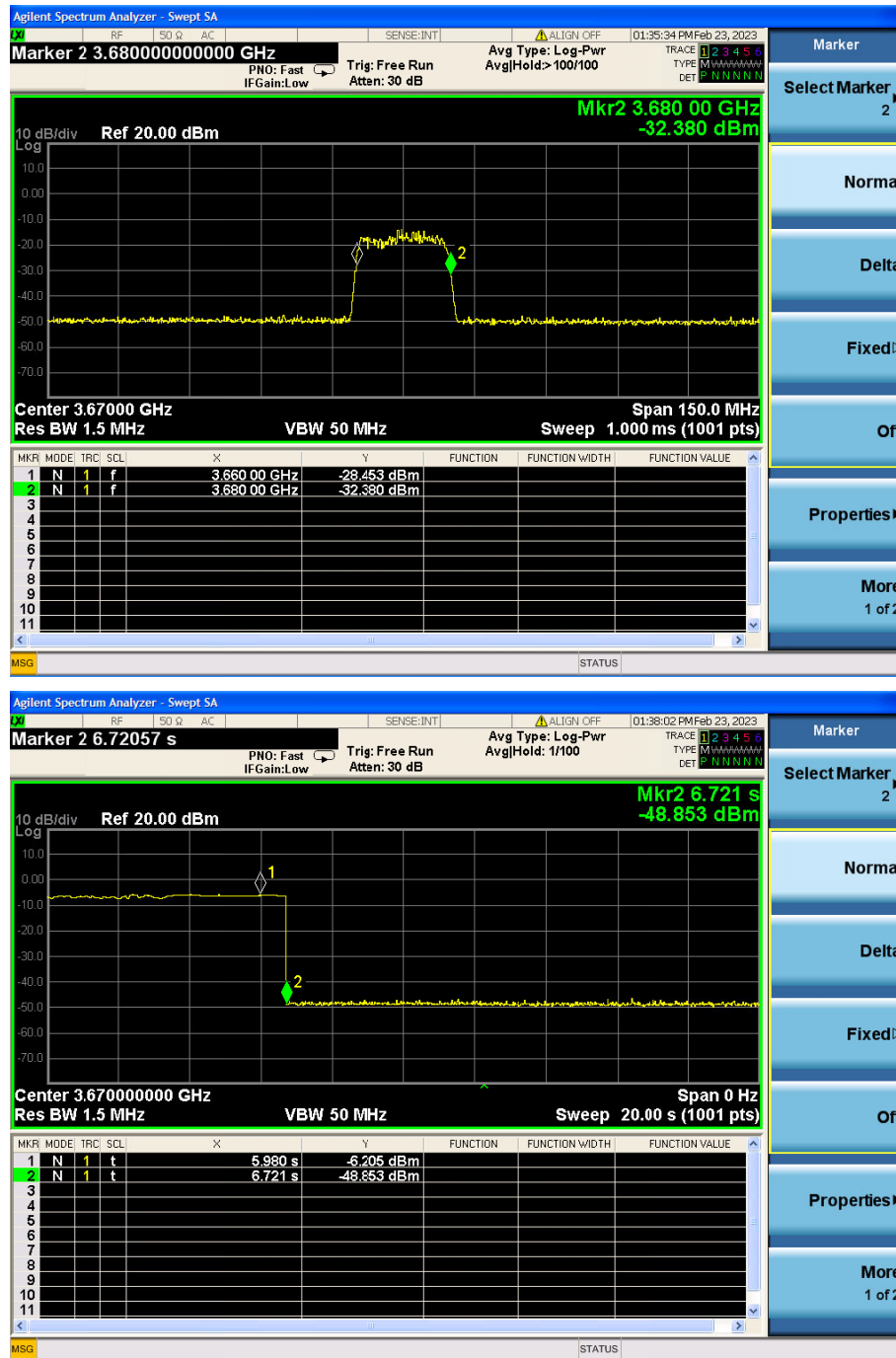
Note

Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation



Run#2



Note

Marker 1: CBSD sends instructions to discontinue LTE operations.

Marker 2: EUT discontinues operation

**** END OF REPORT ****