

# **CBSD-EUD Test Report**

Report No.: RFBFLF-WTW-P21010278

FCC ID: MSQI007D

Test Model: ASUS\_1007D

Received Date: Jan. 12, 2021

Test Date: Feb. 04, 2021

Issued Date: Feb. 09, 2021

Applicant: ASUSTeK COMPUTER INC.

Address: 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration/ 788550 / TW0003 Designation Number:

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#### **Release Control Record**

| Issue No.            | Description      | Date Issued   |
|----------------------|------------------|---------------|
| RFBFLF-WTW-P21010278 | Original release | Feb. 09, 2021 |



#### 1 **Certificate of Conformity**

| Product:       | EXP21 Smartphone      |  |  |
|----------------|-----------------------|--|--|
| Brand:         | ASUS                  |  |  |
| Test Model:    | ASUS_I007D            |  |  |
| Sample Status: | Engineering sample    |  |  |
| Applicant:     | ASUSTeK COMPUTER INC. |  |  |
| Test Date:     | Feb. 04, 2021         |  |  |
| Standards:     | FCC Part 96.47        |  |  |

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :

Chen \_\_\_\_, Date:\_\_ ettie

Pettie Chen / Senior Specialist

Feb. 09, 2021

Approved by :

Bruce Chen / Senior Project Engineer

, Date: Feb. 09, 2021



### 2 Summary of Test Results

| Applied Standard : FCC Part 96.47 |   |        |                      |  |
|-----------------------------------|---|--------|----------------------|--|
| FCC Clause                        | Test Item                               | Result | Remarks              |  |
| 96.47(a)(1)                       | End User Device additional requirements | Pass   | Meet the requirement |  |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### 2.1 Modification Record

There were no modifications required for compliance.



### 3 General Information

### 3.1 General Description of EUT

| Product             | EXP21 Smartphone   |
|---------------------|--------------------|
| Brand               | ASUS               |
| Test Model          | ASUS_1007D         |
| Status of EUT       | Engineering sample |
| Accessory Device    | NA                 |
| Data Cable Supplied | Refer to Note      |

Note:

- 1. The EUT accessories list refers to EUT Photo.pdf.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



#### 4 Measurement

#### 4.1 End User Device additional requirements

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.

#### 4.2 Test Procedure

Following test procedure can be done by WINNF-TS-0122 CBRS CBSD Test Specification, use the certifited CBSD(FCC ID: P27P208) as CBSD device to show compliance with FCC Part 96.47 requirements for End User Device(EUD):

Test #1:

- a) Setup WINNF.PT.C.HBT.1 with 3615 ~ 3635 MHz and MaxEIRP at 10 dBm/MHz.
- b) Enable CBSD service from EPC management.
- c) Check EUD Tx Frequency and connection successful.
- d) Disable AP service from EPC management.
- e) **Check** if EUT stop transmission within 10s.

#### Test #2:

- a) Setup WINNF.PT.C.HBT.1 with 3595 ~ 3615 MHz and MaxEIRP at 15 dBm/MHz.
- b) Enable CBSD service from EPC management.
- c) Check EUD Tx Frequency and connection successful.
- d) Change power to 10 dBm/MHz.
- e) Check EUD Tx output power.
- f) Disable AP service from EPC management.
- g) **Check** if EUT stop transmission within 10s.



#### 4.3 Test Environment

#### **Test Condition**

| Test Item                                  | Environmental Conditions | Input Power  | Tested By    |
|--|--------------------------|--------------|--------------|
| End User Device additional<br>requirements | 25deg. C, 70%RH          | 120Vac, 60Hz | Matthew Yang |

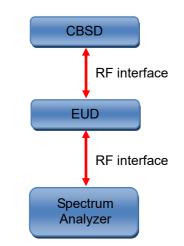
#### 4.4 Test Equipment

| Description & Manufacturer           | Model no.        | Serial No.    | Calibrated Date | Calibrated Until |  |
|--------------------------------------|------------------|---------------|-----------------|------------------|--|
| CBSD                                 | P208-TP          | 1801BVV000034 | NA              | NA               |  |
| Sercomm                              | (FCCID:P27P208)  |               |                 | 101              |  |
| Laptop<br>DELL                       | Inspiron 15 3000 | D67MYN2       | NA              | NA               |  |
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSV              | E2-010642     | May 28, 2020    | May 27, 2021     |  |

NOTE: 1. The test was performed in OVEN 4 Test Room

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

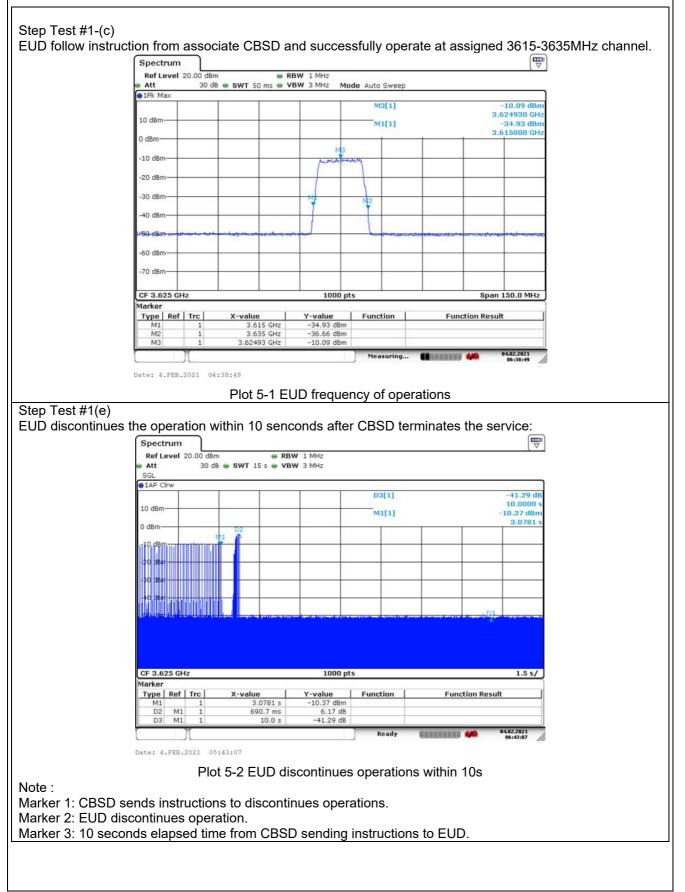
#### 4.5 Test Setup



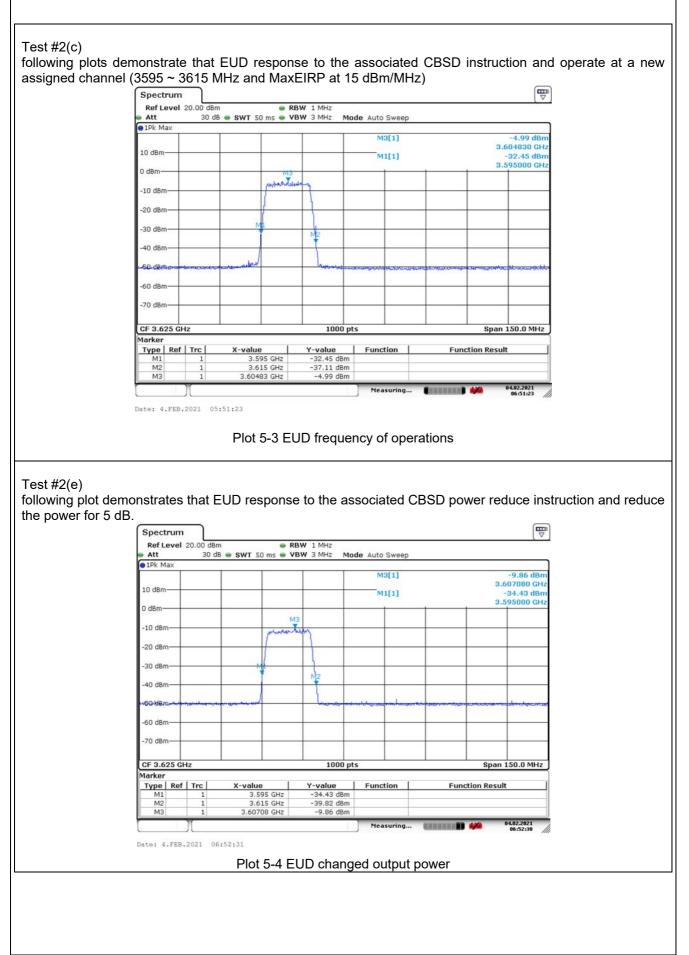
NOTE: The CBSD device is certified CBSD(FCC ID: P27P208). Where the CBSD device connection with EUD is by radiated method. The EUD device connection with Spectrum Analyzer is by conducted method.

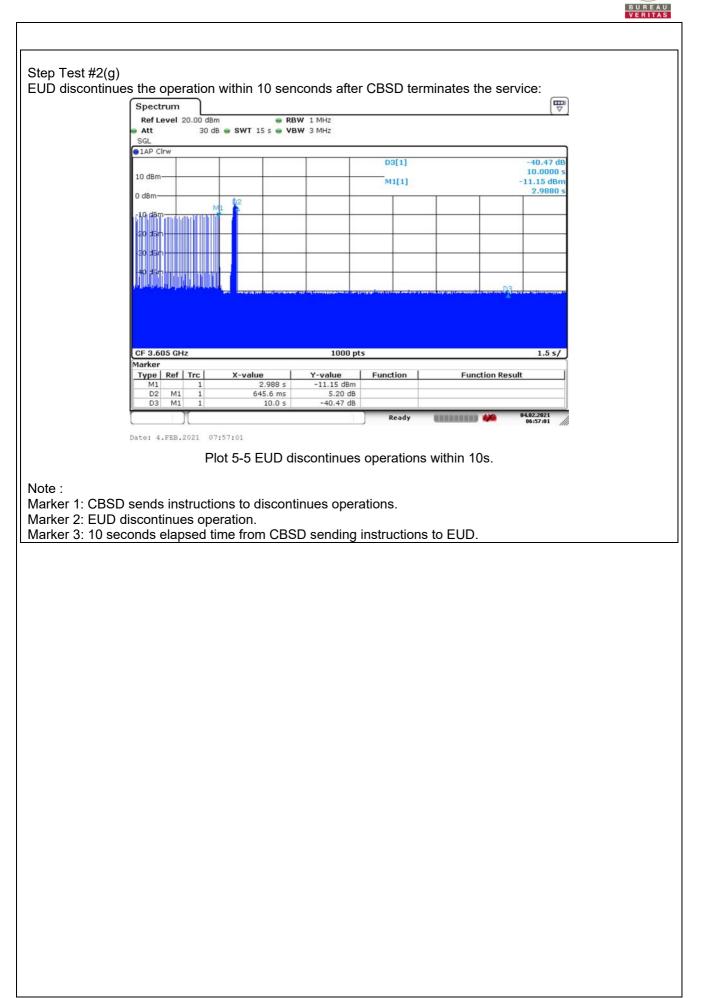


#### 5 Test Result











## 6 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



#### Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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