



# FCC Part 96.47 TEST REPORT

**FCC ID** : 2AJOTTA-1257  
**Equipment** : Smart Phone  
**Brand Name** : NOKIA  
**Model Name** : TA-1257  
**Applicant** : HMD Global Oy  
Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Manufacturer** : HMD Global Oy  
Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Standard** : FCC Part 96.47

The product was received on Jul. 07, 2020 and testing was started from Jul. 15, 2020 and completed on Jul. 15, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                             | Result (PASS/FAIL) | Remark |
|---------------|-----------------|--|--------------------|--------|
| 3             | 96.47           | End User Device additional requirement | Pass               | -      |

**Declaration of Conformity:**

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

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Louis Wu**

**Report Producer: Yimin Ho**



# 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, Wi-Fi 5GHz 802.11a/n/ac, GNSS, NFC and FM Receiver.

| Product Specification subjective to this standard |   |
|---|---|
| <b>Antenna Type</b>                               | WWAN: PIFA Antenna<br>WLAN:<br><Ant. 1> PIFA Antenna<br><Ant. 2> PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS / Glonass / BDS:PIFA Antenna<br>NFC: Loop Antenna<br>FM Receiver: Using earphone as antenna |

## 1.2 Modification of EUT

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

## 1.3 Testing Location

|                           |  |
|---------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory  |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b><br>DFS02-HY  |
| <b>Test Engineer</b>      | Thomas Chen  |
| <b>Temperature</b>        | 21 ~ 25 °C   |
| <b>Relative Humidity</b>  | 50 ~ 56 %  |

FCC Designation No.: TW1190

## 1.4 Applicable Standards

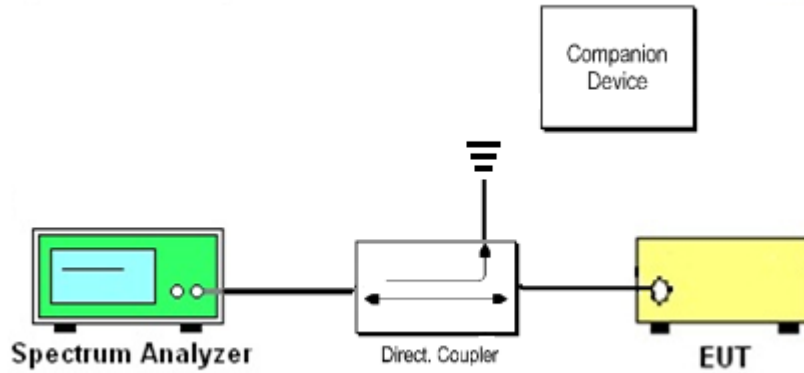
- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v02
- ♦ WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

## 2 Test Configuration of Equipment Under Test

### 2.1 Connection Diagram of Test System



The companion device is certified CBRS (FCC ID: S9GQ710US02)



### 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.

#### 3.2 Test Procedure

Following procedure can be done by applying WINNF-TS-0122-V1.0.1 CBRS CBSD Test Specification, use the certified Ruckus CBSD (FCC ID: S9GQ710US02) as companion device to show compliance with Part 96.47 requirement for End User Device (EUD):

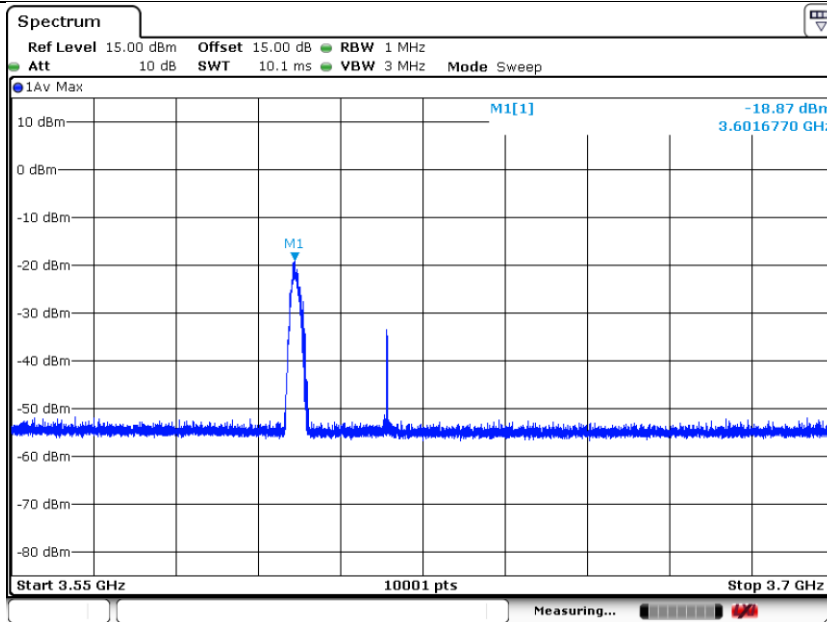
1. Setup with frequency 3600-3620MHz and power level 7dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
  - a. Check EUD stops transmission within 10seconds.
  
5. Setup with 3670-3690MHz & power level 17dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check EUD Tx Frequency and power
8. Disable AP service from Ruckus Cloud management
  - a. Check EUD stops transmission within 10seconds.



### 3.3 Test Result

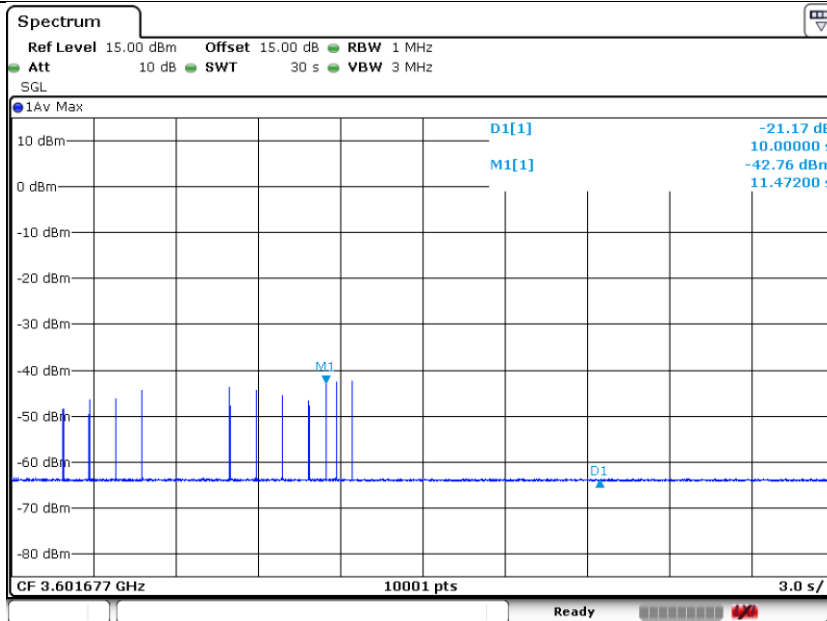
[Step 1] Setup with frequency 3600-3620MHz and power level 7dBm/MHz

[Step 3] Check EUD Tx Frequency and power



Date: 15.JUL.2020 16:59:35

[Step 4.a.] EUD stops transmission within 10 seconds of receiving instructions from its associated CBSD.



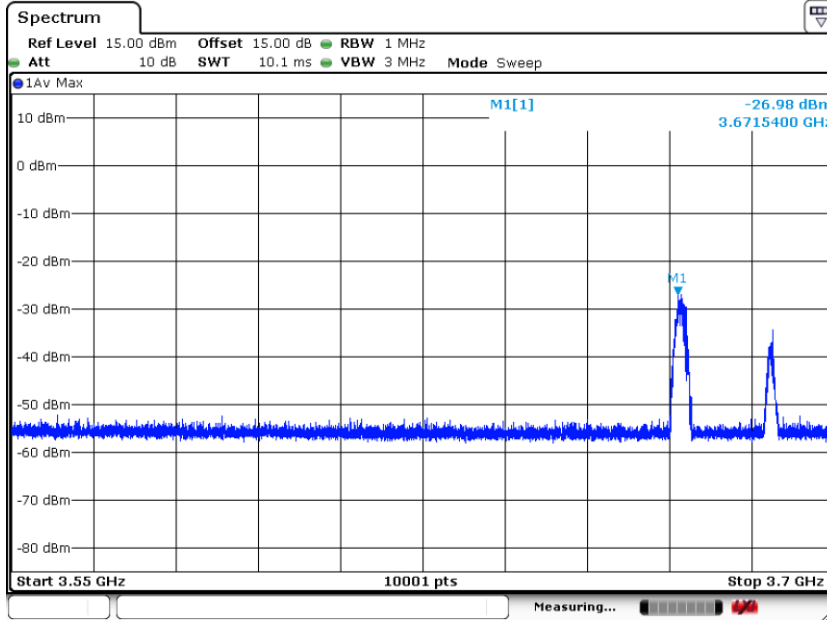
Date: 15.JUL.2020 17:21:20





[Step 5] Setup with 3670-3690MHz & power level 17dBm/MHz

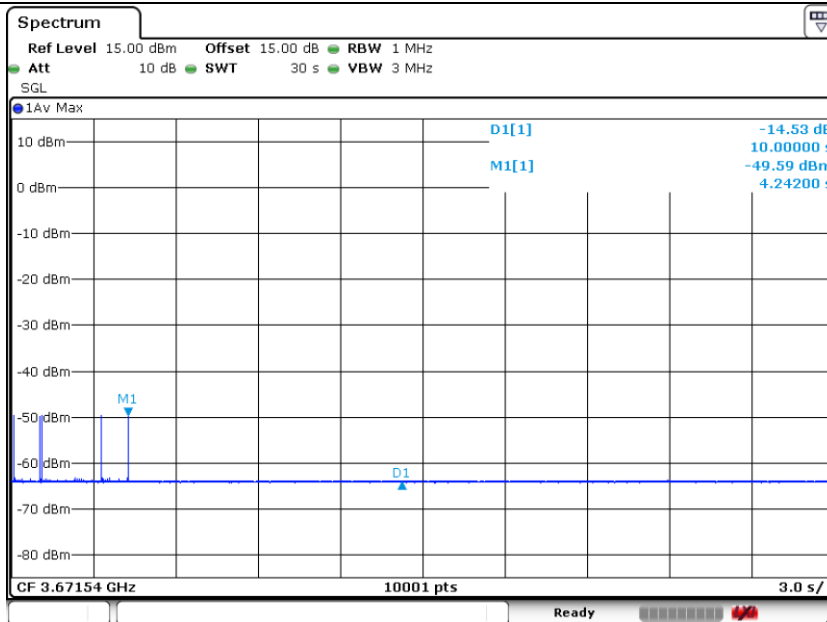
[Step 7] Check EUD Tx Frequency and power



Date: 15.JUL.2020 17:26:28

[Step 8.a.] After changing the frequency and power level,

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.



Date: 15.JUL.2020 17:29:34



## 4 List of Measuring Equipment

| Instrument        | Manufacturer    | Model No. | Serial No. | Characteristics | Calibration Date | Test Date     | Due Date     | Remark   |
|-------------------|-----------------|-----------|------------|-----------------|------------------|---------------|--------------|----------|
| Spectrum Analyzer | Rohde & Schwarz | FSV40     | 101908     | 10Hz~40GHz      | May 13, 2020     | Jul. 15, 2020 | May 12, 2021 | DFS02-HY |