



# FCC Part 96.47 TEST REPORT

FCC ID : RI7FE990B40NA  
Equipment : 5G NR Module  
Brand Name :   
Model Name : FE990B40-NA, FE990B40-NAD  
Marketing Name : FE990B40-NA, FE990B40-NAD  
Applicant : Telit Communications S.p.A.  
Via Stazione Di Prosecco 5/B, Trieste 34010, Italy  
Manufacturer : Telit Communications S.p.A.  
Via Stazione Di Prosecco 5/B, Trieste 34010, Italy  
Standard : FCC Part 96.47  
RF Interface : NR n48

The product was received on Sep. 24, 2024, and testing was performed from Oct. 25, 2024 to Oct. 25, 2024. 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai

**Sporton International Inc. Wensan Laboratory**

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



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## History of this test report

Report No.	Version	Description	Issue Date
FG492402F	01	Initial issue of report	May 27, 2025
FG492402F	02	Revise FCC ID This report is an updated version, replacing the report issued on May 27, 2025.	Jun. 09, 2025

## Summary of Test Result

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

**Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

**Disclaimer:**

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different model name is for marketing segmentation.

**Reviewed by: Keven Cheng**

**Report Producer: Dara Chiu**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature
<b>General Specs</b> LTE/5G NR and GNSS.
<b>Antenna Type</b> WWAN: Monopole Antenna

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	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
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY
<b>Test Engineer</b>	Alston
<b>Temperature</b>	22 ~ 23 °C
<b>Relative Humidity</b>	46 ~ 51 %

FCC designation No.: TW3786

## 1.4 Applicable Standards

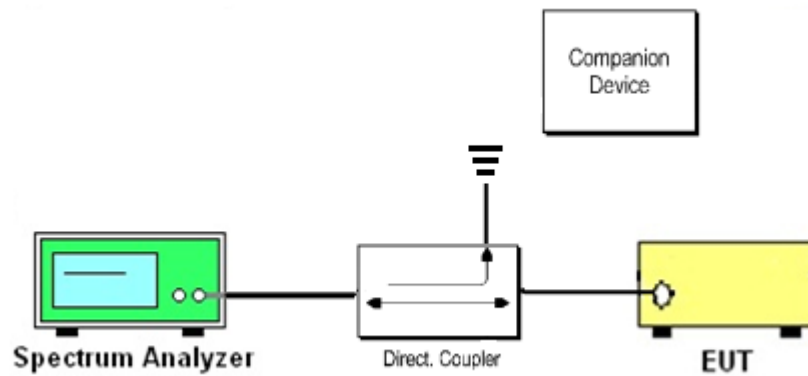
- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

**Remark:**

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 a certified NR CBSD (FCC ID: PIDAS2900)

### 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

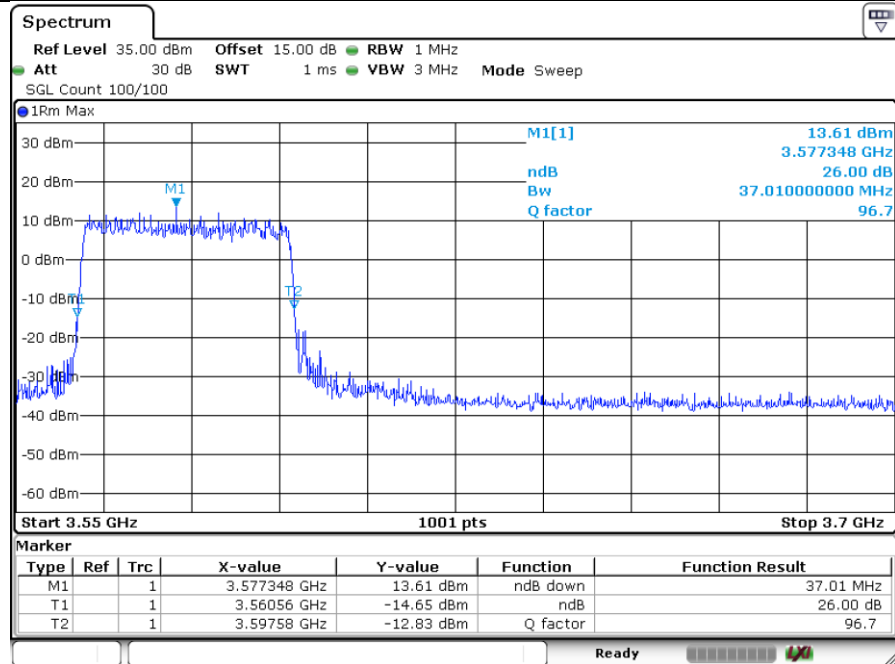
The following procedure is following in accordance with WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, using the certified Airspan NR CBSD (FCC ID: PIDAS2900) as companion device to present compliance with Part 96.47 requirement for End User Device (EUD):

1. Configure SAS granted CBSD to operate at frequency 3560-3600 MHz and power level 10 dBm/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 if EUD stops transmission within 10 seconds.
5. Configure SAS granted CBSD to operate at frequency 3650-3690 MHz and power level 20 dBm/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 if EUD stops transmission within 10 seconds.

### 3.3 Test Result

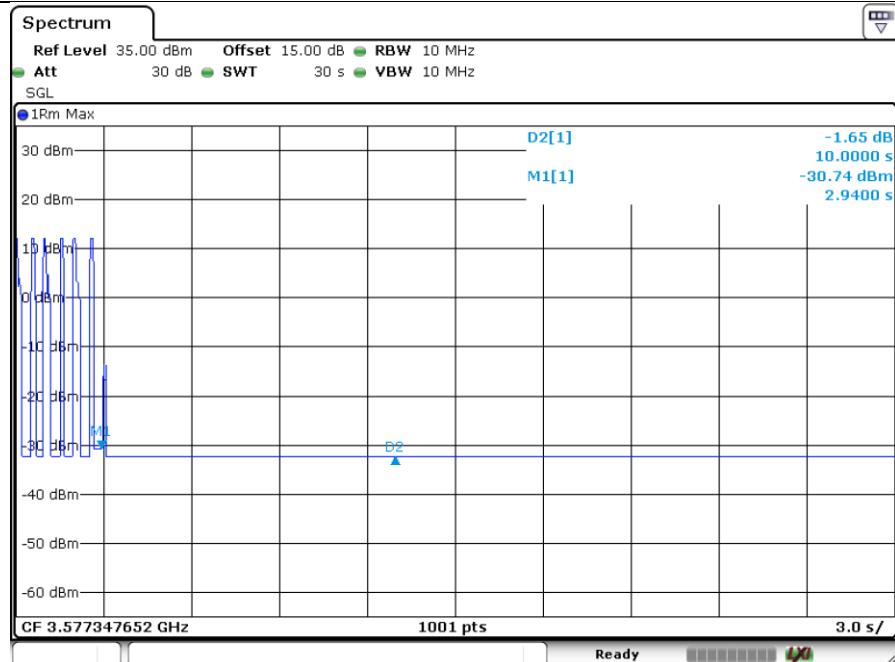
**[Step 1] Configure SAS granted CBSD to operate at  
frequency 3560-3600 MHz and power level 10 dBm/MHz**

**[Step 3] Check EUD Tx Frequency and power**



Date: 25.OCT.2024 04:44:16

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



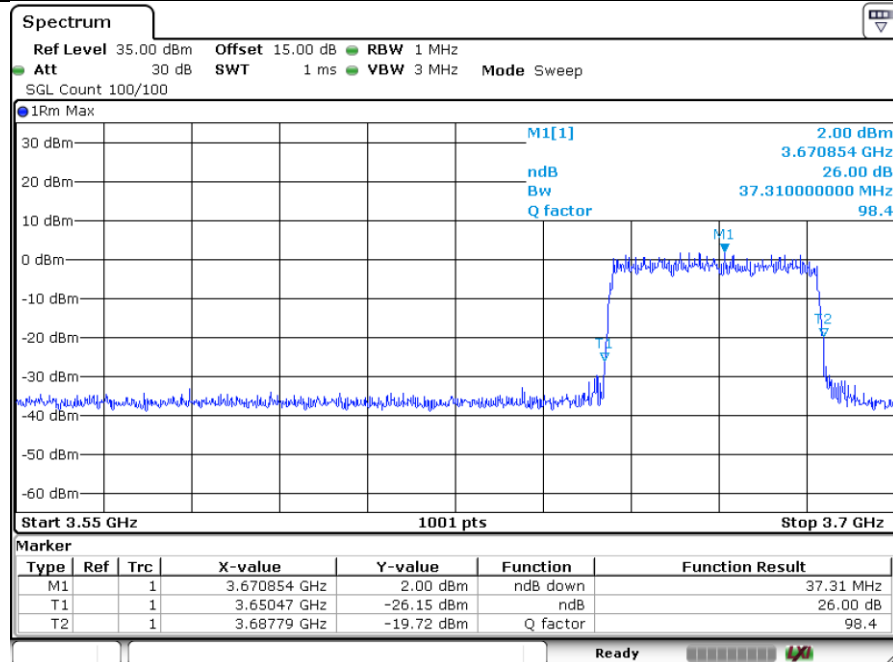
Date: 25.OCT.2024 04:48:28





[Step 5] Configure SAS granted CBSD to operate at  
frequency 3650-3690 MHz & power level 20 dBm/MHz

[Step 7] Check EUD Tx Frequency and power



Date: 25.OCT.2024 05:06:49



**Spectrum**

Ref Level 35.00 dBm Offset 15.00 dB RBW 10 MHz

Att 30 dB SWT 30 s VBW 10 MHz

SGL

1Rm Max

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

D2[1] -0.89 dB

M1[1] 10.0000 s

-31.67 dBm

2.3400 s

M1

D2

CF 3.670854146 GHz 1001 pts 3.0 s/

Ready

Date: 25.OCT.2024 05:09:55



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101566	10Hz~44GHz	Aug. 23, 2024	Oct. 25, 2024	Aug. 22, 2025	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL883644	Voltage:0~20V; Current:0~5A	Nov. 20, 2023	Oct. 25, 2024	Nov. 19, 2024	Conducted (TH05-HY)