



FCC Part 96.47 TEST REPORT

FCC ID : RI7FN990B40
Equipment : 5G NR Module
Brand Name : 
Model Name : FN990B40
Marketing Name : FN990B40
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 : LTE B48

The product was received on Oct. 15, 2024, and testing was performed from Jan. 07, 2025 to Jan. 07, 2025. 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

Sportun International Inc. Wensan Laboratory

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



Table of Contents

History of this test report	3
Summary of Test Result	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	5
2 Test Configuration of Equipment Under Test	6
2.1 Connection Diagram of Test System.....	6
3 End User Device additional requirement	7
3.1 Test Requirement	7
3.2 Test Procedure	7
3.3 Test Result.....	8
4 Measuring Equipment List	11
Appendix A. Setup Photographs	



History of this test report



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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

Disclaimer:

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.

Reviewed by: Keven Cheng

Report Producer: Rebecca Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs WCDMA/LTE/5G NR and GNSS.
Antenna Type WWAN: Monopole Antenna GNSS: Monopole Antenna
HW Version: 1.00
SW Version: M0W.003001

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

Test Site	Sportun 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.	Sportun Site No.
	TH05-HY
Test Engineer	Alston Tsai
Temperature	23 ~ 24 °C
Relative Humidity	42 ~ 46 %

FCC designation No.: TW3786

1.4 Applicable Standards

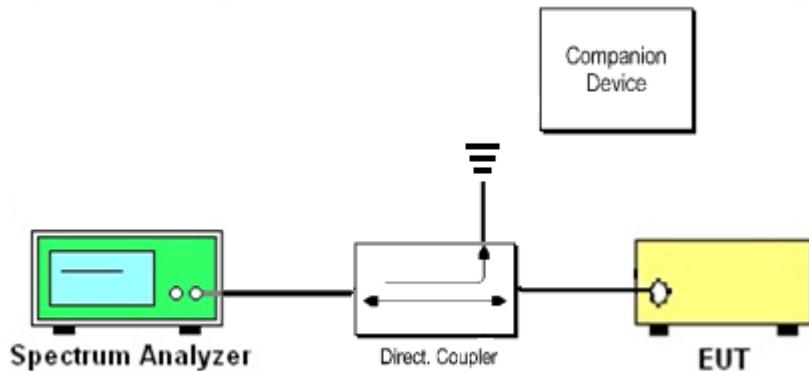
- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

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 CBSD (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

The following procedure is following in accordance with WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, using the certified Ruckus CBSD (FCC ID: S9GQ710US02) as a companion device to present compliance with Part 96.47 requirement for End User Device (EUD):

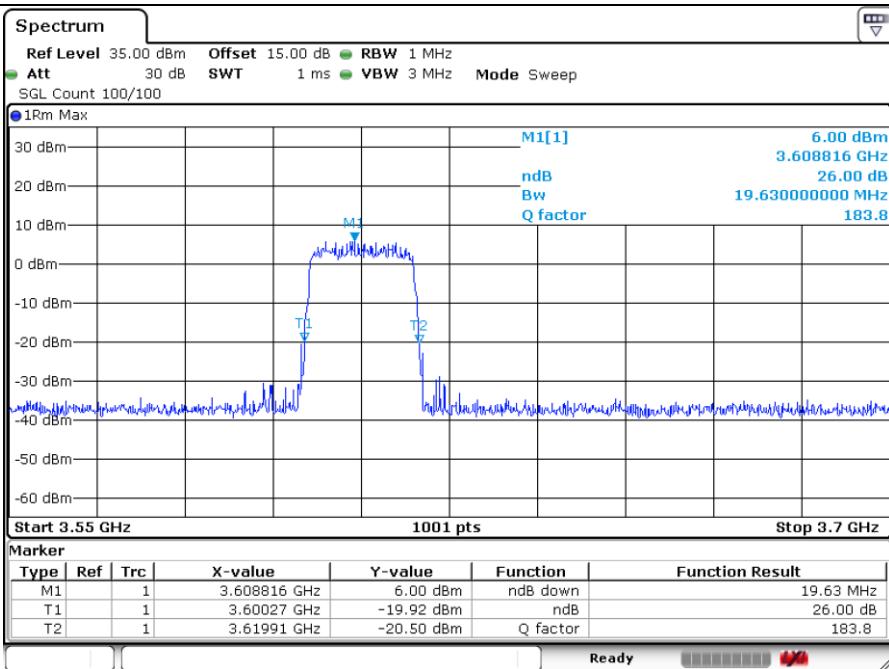
1. Configure SAS granted CBSD to operate at frequency 3600-3620 MHz and power level 20 dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check EUD Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
 - a. Check if EUD stops transmission within 10 seconds.
5. Configure SAS granted CBSD to operate at frequency 3670-3690 MHz & power level 10 dBm/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 if EUD stops transmission within 10 seconds.



3.3 Test Result

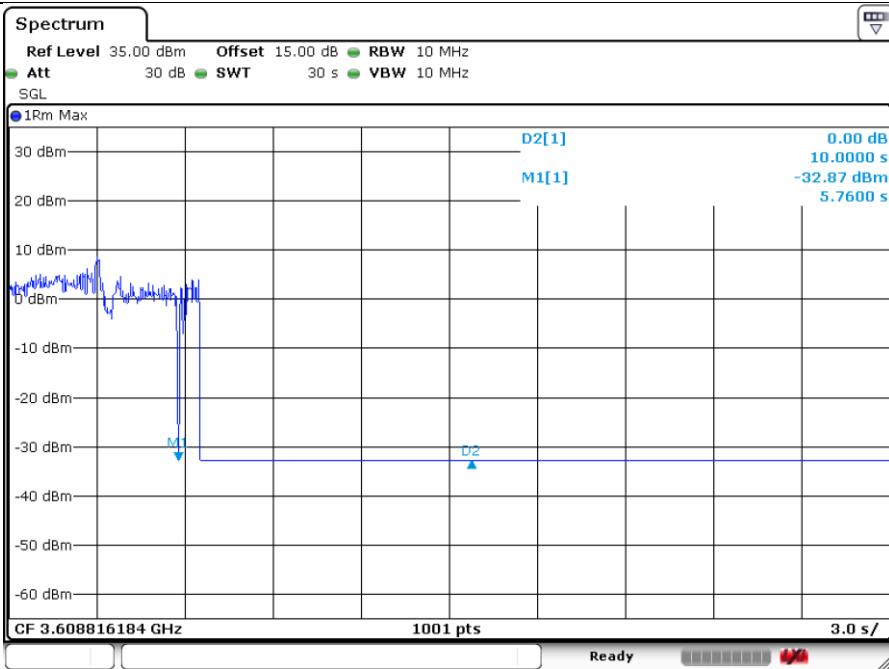
[Step 1] Configure SAS granted CBSD to operate at frequency 3600-3620 MHz and power level 20 dBm/MHz

[Step 3] Check EUD Tx Frequency and power



Date: 7.JAN.2025 07:29:08

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

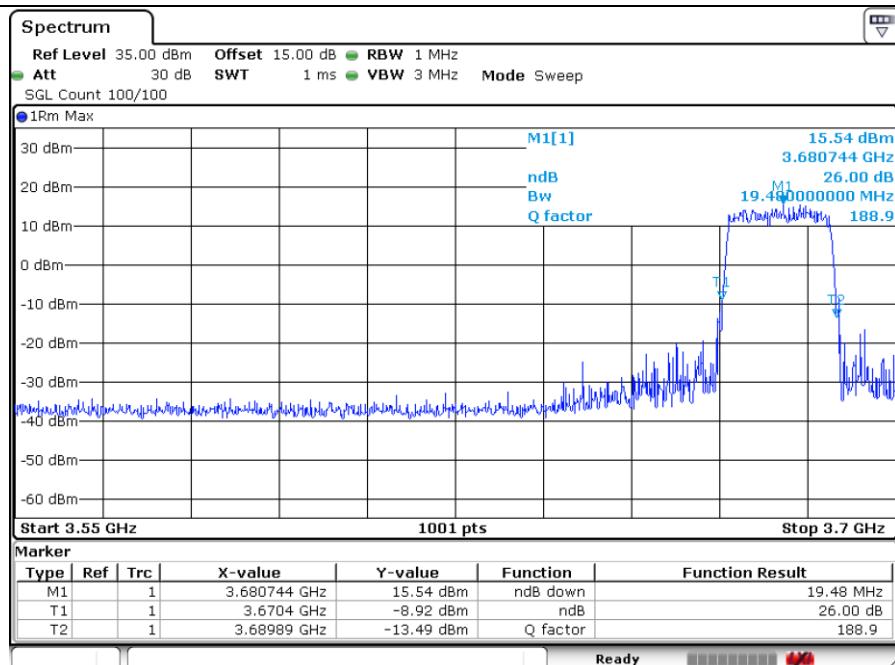


Date: 7.JAN.2025 07:34:56



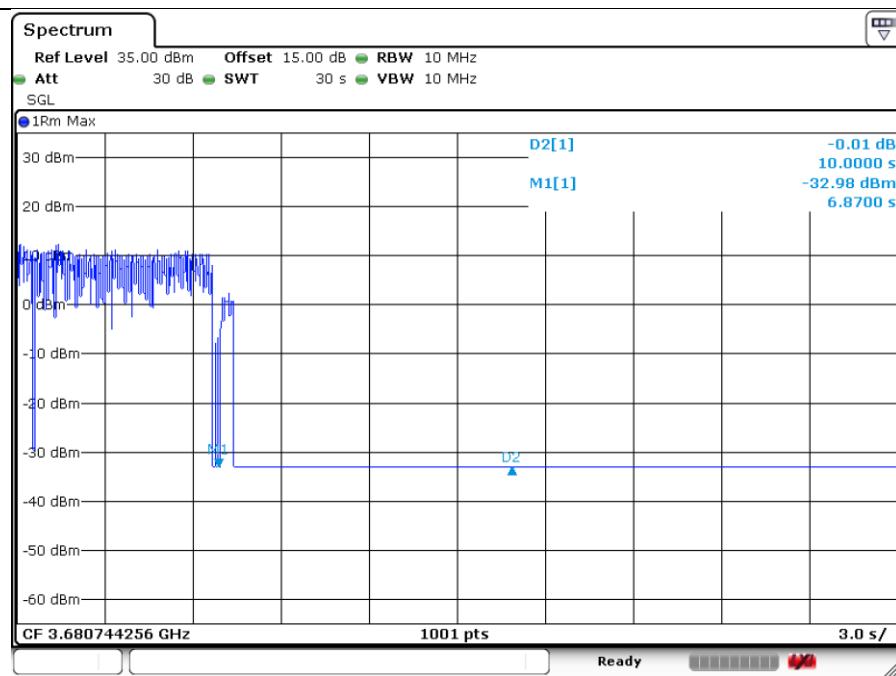
**[Step 5] Configure SAS granted CBSD to operate at
frequency 3670-3690 MHz & power level 10 dBm/MHz**

[Step 7] Check EUD Tx Frequency and power





[Step 8.a.] After changing the frequency and power level, The EUD discontinues operating, changes frequencies, or changes its operational power level within 10 seconds right after receiving instructions from its associated CBSD. Test result is a PASS.



Date: 7.JAN.2025 08:01:15



4 Measuring Equipment List

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101566	10Hz ~ 40GHz	Aug. 23, 2024	Jan. 07, 2025	Aug. 22, 2025	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GEU810970	0V~64V ; 0A~6A	Nov. 08, 2024	Jan. 07, 2025	Nov. 07, 2025	Conducted (TH05-HY)