



FCC Part 96.47 TEST REPORT

FCC ID (For NU) : YETI44-1M34CNU
FCC ID (For CU) : YETI41-RECU
Equipment : Cellphone Signal Booster
Model Numbers (For NU) : I44-1M34CNU
Model Numbers (For CU) : I41-RECU
Model Name : Cel-Fi Q4K-CBRS
Applicant : Nextivity Incorporated
16550 West Bernardo Drive, Suite 550, San Diego, CA 92127, USA
Manufacturer : Nextivity Incorporated
16550 West Bernardo Drive, Suite 550, San Diego, CA 92127, USA
Standard : FCC Part 96.47
RF Interface : LTE B48

The product was received on Mar. 07, 2023, and testing was performed from Mar. 09, 2023 to Mar. 09, 2023. 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 of 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
FG313006	01	Initial issue of report	Mar. 15, 2023



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:

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: Thomas Chen

Report Producer: Lucy Wu

1 General Description

1.1 Modification of EUT

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

1.2 Testing Location

Test Site	Sporton 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.	Sporton Site No. TH05-HY
Test Engineer	Thomas Chen
Temperature	20 ~ 23 °C
Relative Humidity	48 ~ 53 %

FCC designation No.: TW3786

1.3 Applicable Standards

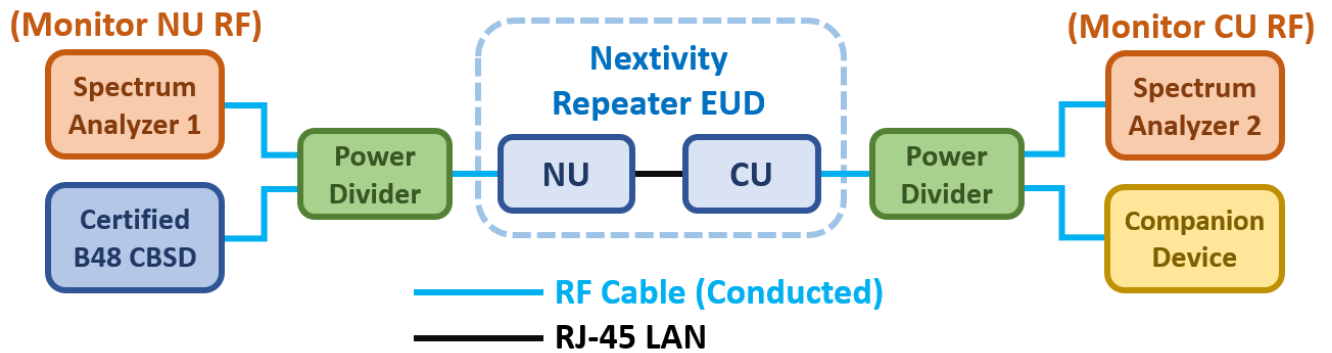
- ♦ FCC Part 96.47
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 935210 D02 Signal Boosters Certification v04r02
- ♦ WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The FCC KDBs cited above are out of test laboratory's ISO 17025 accreditation scope.

2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



Certified B48 CBSD (FCC ID: S9GQ710US02)

The companion device is certified EUD (FCC ID: IHDT56AE7)

The repeater contains NU and CU, which are classified as EUDs due to the fact that their EIRP is less than 23 dBm/10MHz.

This classification is based on Section (h)(3)(ii) of the FCC's regulations for Part 96 equipment types outlined in FCC KDB 935210 D02 Signal Boosters Certification v04r02.



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.

FCC KDB 935210 D02 Signal Boosters Certification v04r02

(h)(3)(ii) Applicable Part 96 equipment types:

EIRP < 23 dBm/10 MHz: EUD requirements apply for operation with a CBSD.

3.2 Test Procedure

To test the compliance of the repeater's NU and CU with Part 96.47 requirements for EUDs, the WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification can be followed. Certified Ruckus Q710 CBSD (FCC ID: S9GQ710US02) used as an LTE B48 CBSD, and a Motorola moto g50 5G (FCC ID: IHDT56AE7) used as a companion device to demonstrate compliance.

1. Configure SAS granted CBSD to operate at frequency 3605-3615 MHz and power level 20 dBm/MHz
2. Enable AP service from Ruckus Cloud management
3. Check repeater (NU and CU) Tx Frequency and power
4. Disable AP service from Ruckus Cloud management
 - a. Check repeater (NU and CU) stops transmission within 10 seconds.
5. Configure SAS granted CBSD to operate at frequency 3675-3685 MHz & power level 10 dBm/MHz
6. Enable AP service from Ruckus Cloud management
7. Check repeater (NU and CU) Tx Frequency and power
8. Disable AP service from Ruckus Cloud management
 - a. Check repeater (NU and CU) stops transmission within 10 seconds.



3.3 Test Result

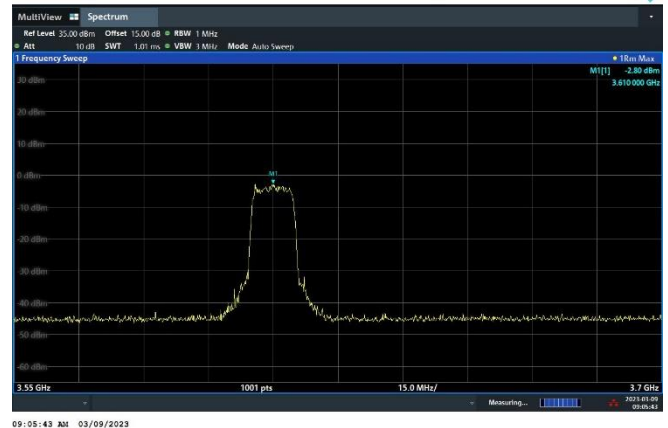
[Step 1] Configure SAS granted CBSD to operate at
frequency 3605-3615 MHz and power level 20 dBm/MHz

[Step 3] Check repeater (NU and CU) Tx Frequency and power

NU



CU

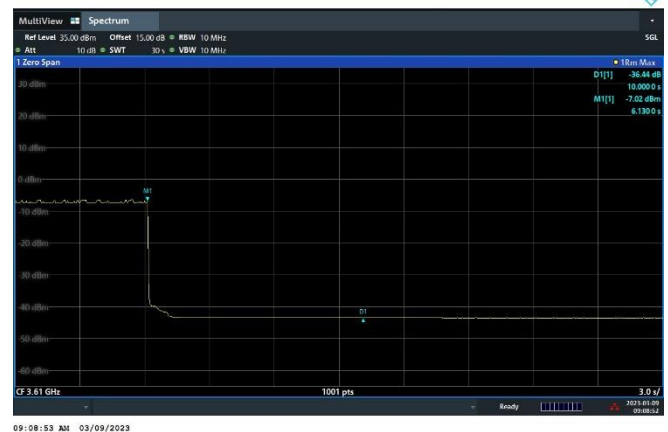


[Step 4.a.] Repeater (NU and CU) stops transmission within 10 seconds of receiving instructions from its
associated CBSD.

NU



CU



**[Step 5] Configure SAS granted CBSD to operate at
frequency 3675-3685 MHz & power level 10 dBm/MHz**

[Step 7] Check repeater (NU and CU) Tx Frequency and power

NU

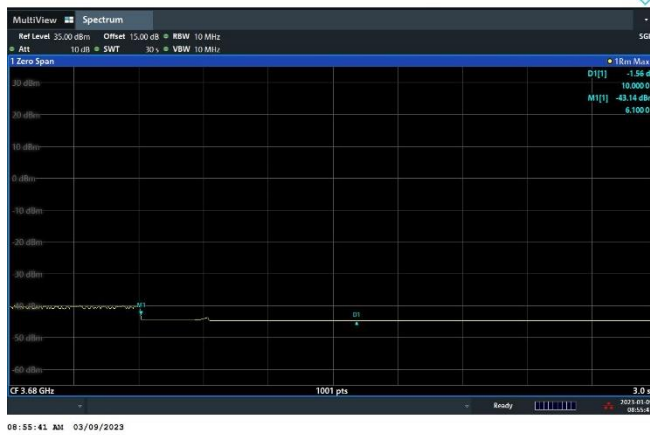


CU

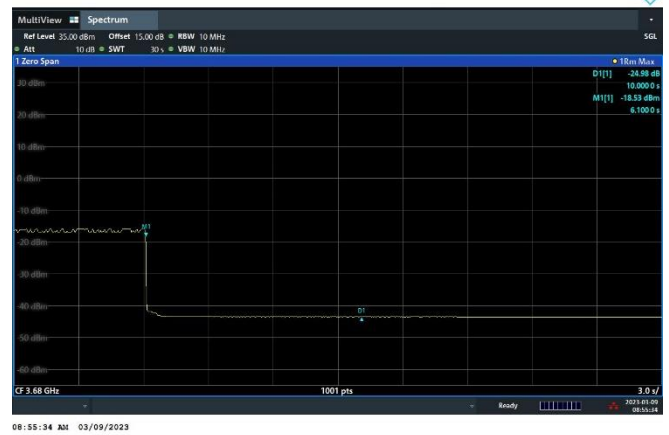


**[Step 8.a.] After changing the frequency and power level,
The repeater (NU and CU) discontinues operations, change frequencies, or change its operational power level
within 10 seconds of receiving instructions from its associated CBSD. Test result is PASS.**

NU



CU

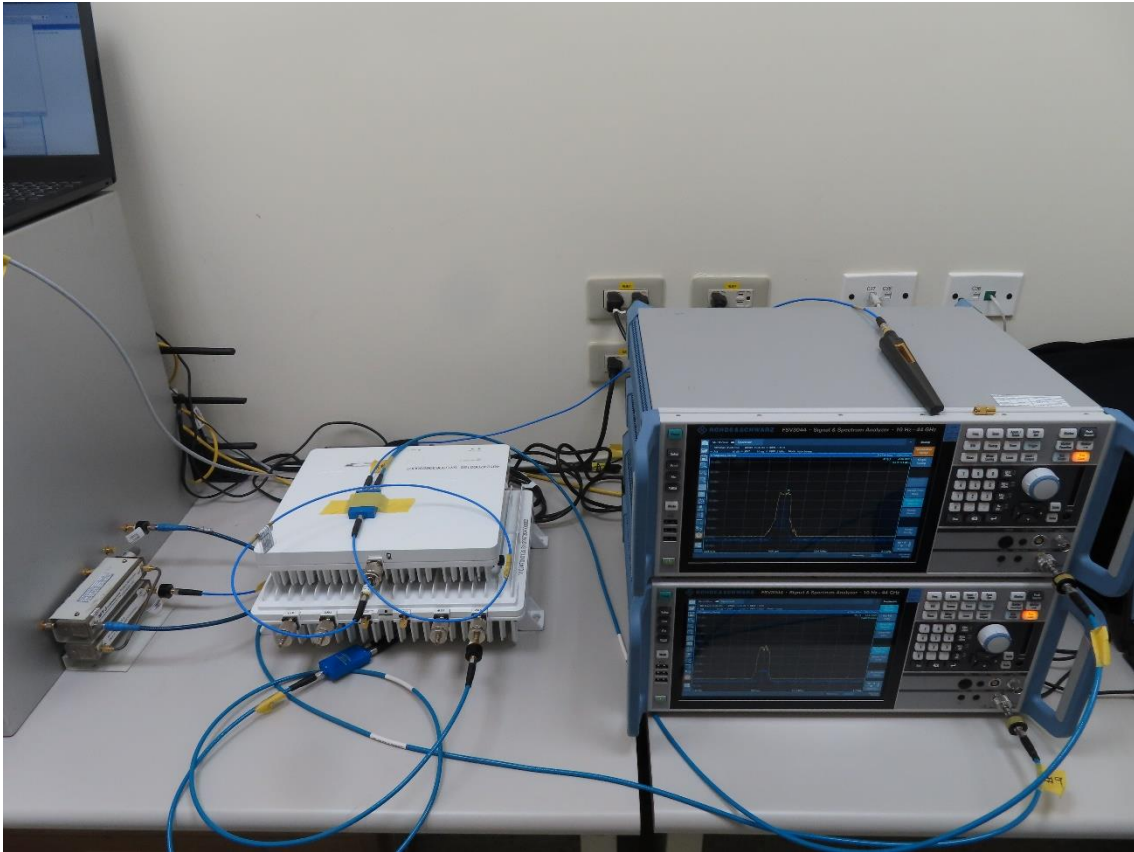




4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV3044	101434	10Hz~44GHz	Oct. 28, 2022	Mar. 09, 2023	Oct. 27, 2023	Conducted (TH05-HY)
Spectrum Analyzer	R&S	FSV3044	101436	10Hz~44GHz	Nov. 23, 2022	Mar. 09, 2023	Nov. 22, 2023	Conducted (TH05-HY)

Appendix A Test Setup Photo



————THE END————