


FCC PART 96.47 CBSD-EUD TEST
REPORT

FCC Applicant: Telit Communications S.p.A.
Via Stazione di Prosecco 5/b 34010 Sgonico – Trieste, Italy

FCC Manufacturer: Telit Wireless Solutions. Co. Ltd.
13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,
Yeongdeungpo-gu, Seoul, 07330, South Korea

Product Name: 5G Radio Module

Brand Name: Telit Cinterion or 

Model No.: FE912C04-NA


Report Number: TERF2411003770ER

FCC ID RI7FE912C04NA

Date of EUT Received: November 26, 2024

Date of Test: November 27, 2024 ~ January 15, 2025

Issue Date: March 31, 2025



Approved By

Jazz Huang**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 96.47.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2411003770ER	00	Original	February 20, 2025	Yuri Tsai	
TERF2411003770ER	01	Update section1.1	March 27, 2025	Yuri Tsai	*
TERF2411003770ER	02	Update section3.2	March 31, 2025	Yuri Tsai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

Product Name:	5G Radio Module
Brand Name:	Telit Cinterion or 
Model No.:	FE912C04-NA
Hardware Version:	1.00
Firmware Version:	M0V.010001
EUT Series No.:	357752690013656
Power Supply:	3.8 Vdc
Test Software (Name/Version)	Conncet with callbox

1.1. Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

LTE Band	Frequency (MHz)	Antenna Gain (dBi)	TLB Line Loss (dB)	Final Gain (dBi)
B48	3550 ~ 3700	1.51	1.1	0.41

Note: Antenna information is provided by the applicant.

1.2. Operation Frequencies

LTE Band	BW (MHz)	Operation Frequency (MHz)	
48	5	3552.5	3697.5
	10	3555.0	3695.0
	15	3557.5	3692.5
	20	3560.0	3690.0

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1.3. Test Methodology of Applied Standards

FCC Part 96.47

FCC KDB 940660 D01 Part 96 CBRS Eqpt V03

1.4. Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				
Note: Test site name is remarked on the equipment list in each section of this report as an indica- tion where measurements occurred in specific test site and address.				

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There was no modifications incorporated into the EUT.

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2. SUMMARY OF TEST RESULTS

2.1. Summary of test results

FCC Rules	Description Of Test	Result
§96.47(a) (1)	End User Device additional requirements	Compliant

2.2. Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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3. MEASUREMENT

3.1. 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.

3.2. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

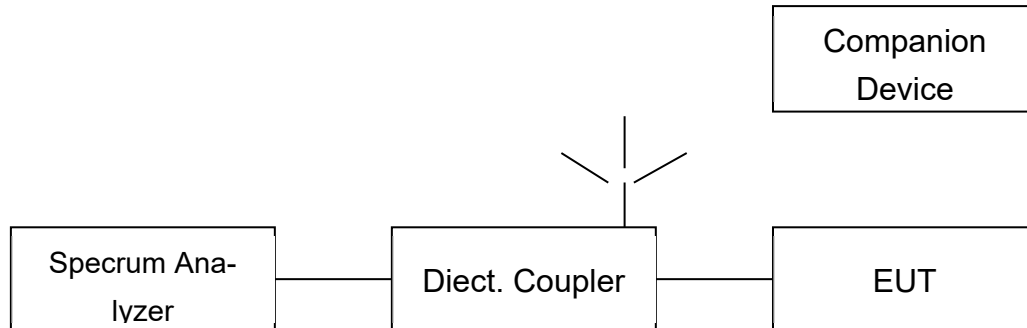
1. Setup with frequency 3625MHz and power level 20dBm/MHz
2. Enable AP service from EPC management
3. Check EUD Tx Frequency and power
4. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.
5. Setup with 3670MHz & power level 13dBm/MHz
6. Enable AP service from EPC management
7. Check EUD Tx Frequency and power
8. Disable AP service from EPC management
 - a. Check EUD stops transmission within 10seconds.

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3.3. Test Configuration of Equipment Under Test:

Connection Diagram of Test System



The EUT is an End User Device (EUD) which was connected to a certified Gemtek CBSD (FCC ID: MXF-WLTGFC105 and qualified by WInnForum) as the companion device to show compliance with Part 96.47 requirement.

3.4. Measurement Equipment Used

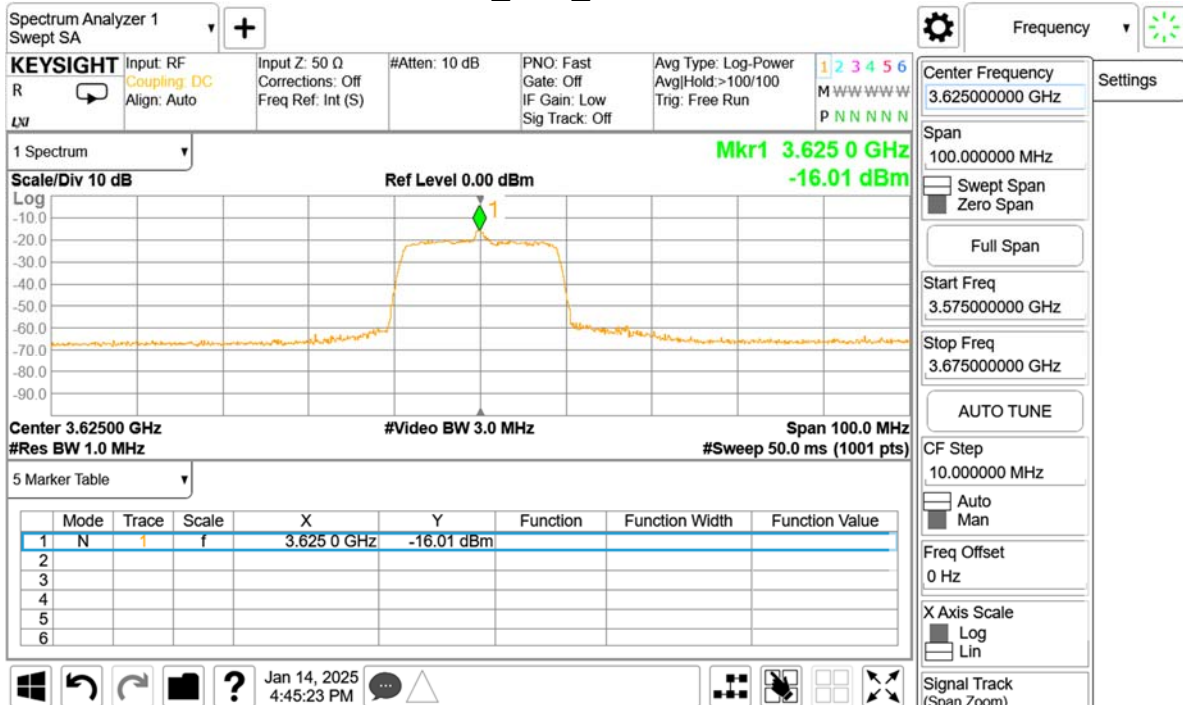
Conducted Emission Test Site: Conducted 5					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	Mini-Circuits	BLK-18-S+	4	12/12/2023	12/11/2024
DC Block	Mini-Circuits	BLK-18-S+	4	12/11/2024	12/10/2025
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/18/2024	01/17/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071406	06/25/2024	06/24/2025
Access Point	PC i-	FXG-05TX	N/A	N/A	N/A
CBSD	Gentek	WLTGFC-105	SN: N/A FCC ID:MXF-WLTGFC105	N/A	N/A
EPC	Gentek	CSB-3230A-GT1	1412902099	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD238GDV5	N/A	N/A
Notebook	Lenovo	T440P	PC-089AH5 15/10	N/A	N/A

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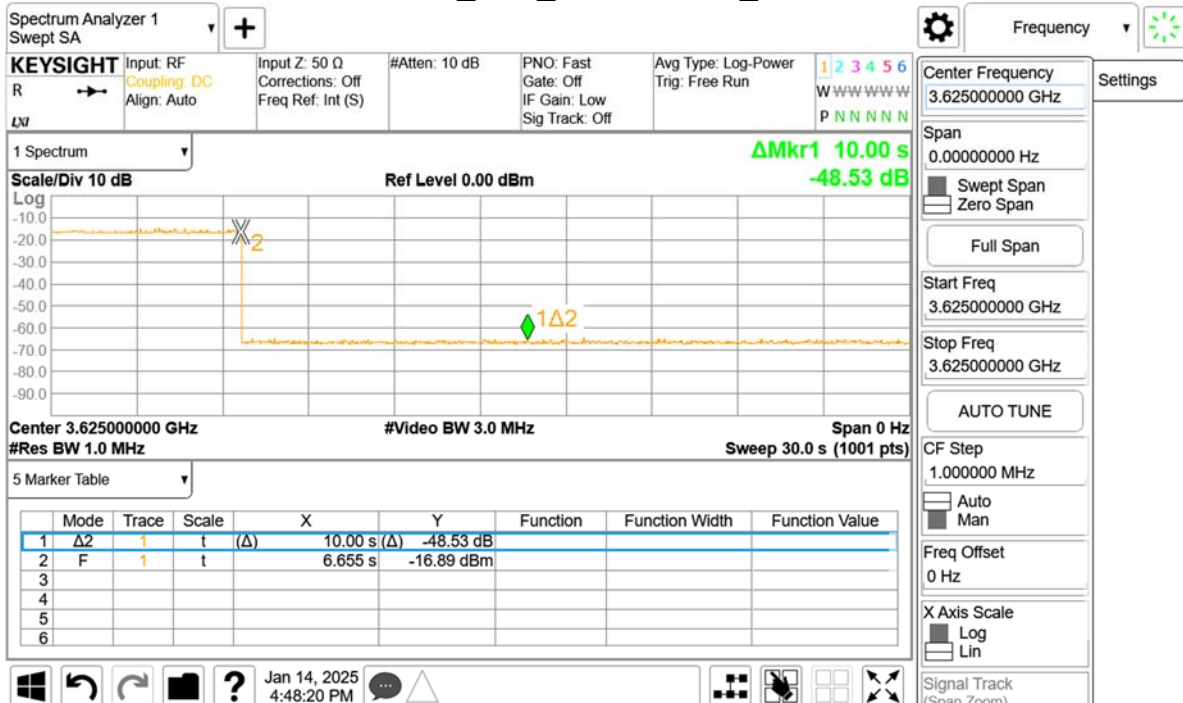
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3.5. Measurement Result

3625_20M_EIRP 20dBm



3625_20M_EIRP 20dBm_10s



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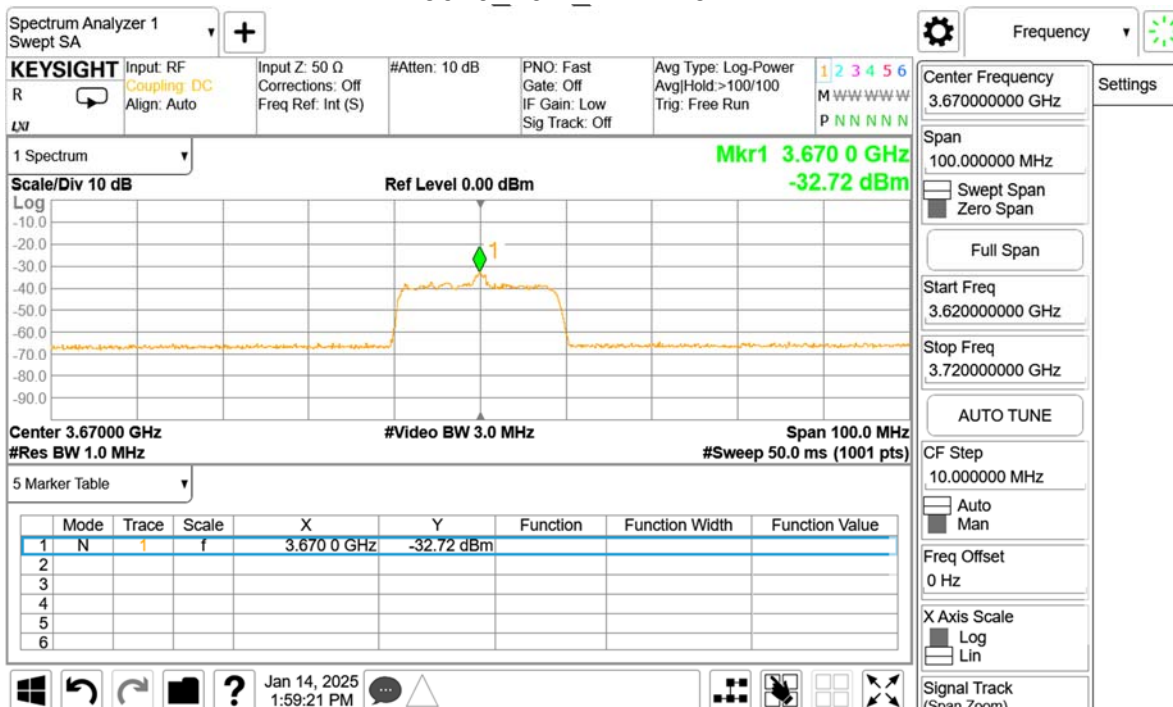
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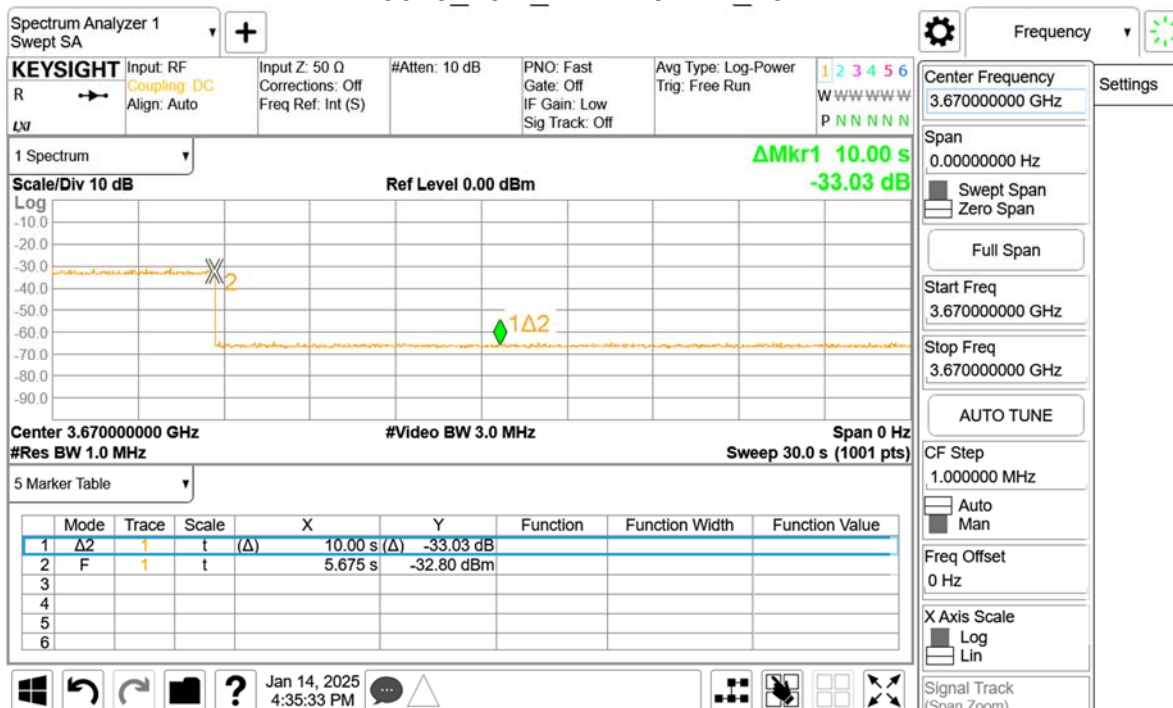
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3670_20M_EIRP 13dBm



3670_20M_EIRP 13dBm_10s



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4. PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

5. PHOTOGRAPHS OF EUT

Please refer to the attached file(EUT Photo)

~ End of Report ~

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