

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

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

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.: FE910C04-WW

Family Model No.: FE910C04-WWD

Model Difference: FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration.

Report Number: TERF2507002433ER

FCC ID RI7FE910C04WW

Date of EUT Received: July 28, 2025

Date of Test: July 28, 2025 ~ August 29, 2025

Issue Date: September 22, 2025

Approved By CHUN-CHIEH, CHEN
Chun Chieh Chen

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, 22H & 24E & 27C & 90S.

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
TERF2507002433ER	00	Update HW and SW version	September 22, 2025	Susan Lin	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).
- 3、This is an addendum report of the original test report number TERF2503001150ER.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	5G Radio Module
Brand Name:	Telit Cinterion or 
Model No.:	FE910C04-WW
Family Model No.:	FE910C04-WWD
Model Difference:	FE910C04-WW and FE910C04-WWD are the same, except for that FE910C04-WWD is Data only module obtained by different SW configuration.
Hardware Version:	1.10
Firmware Version:	FE910C04-WW: M0V.032001 FE910C04-WWD: M0V.033001
EUT Series No.:	359492309997993
Power Supply:	3.8Vdc
Test Software (Name/Version):	Connected with Callbox

1.2 Operation Frequency Range

LTE Band 2			
BW (MHz)	Operation Frequency (MHz)		
1.4	1850.7	-	1909.3
3	1851.5	-	1908.5
5	1852.5	-	1907.5
10	1855.0	-	1905.0
15	1857.5	-	1902.5
20	1860.0	-	1900.0
LTE Band 4			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1754.3
3	1711.5	-	1753.5
5	1712.5	-	1752.5
10	1715.0	-	1750.0
15	1717.5	-	1747.5
20	1720.0	-	1745.0

LTE Band 5			
BW (MHz)	Operation Frequency (MHz)		
1.4	824.7	-	848.3
3	825.5	-	847.5
5	826.5	-	846.5
10	829.0	-	844.0
LTE Band 7			
BW (MHz)	Operation Frequency (MHz)		
5	2502.5	-	2567.5
10	2505.0	-	2565.0
15	2507.5	-	2562.5
20	2510.0	-	2560.0

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LTE Band 12			
BW (MHz)	Operation Frequency (MHz)		
1.4	699.7	-	715.3
3	700.5	-	714.5
5	701.5	-	713.5
10	704.0	-	711.0
LTE Band 13			
BW (MHz)	Operation Frequency (MHz)		
5	779.5	-	784.5
10	782.0		
LTE Band 14			
BW (MHz)	Operation Frequency (MHz)		
5	790.5	-	795.5
10	793.0		
LTE Band 17			
BW (MHz)	Operation Frequency (MHz)		
5	706.5	-	713.5
10	709.0	-	711.0
LTE Band 25			
BW (MHz)	Operation Frequency (MHz)		
1.4	1850.7	-	1914.3
3	1851.5	-	1913.5
5	1852.5	-	1912.5
10	1855.0	-	1910.0
15	1857.5	-	1907.5
20	1860.0	-	1905.0
LTE Band 26			
BW (MHz)	Operation Frequency (MHz)		
1.4	824.7	-	848.3
3	825.5	-	847.5
5	826.5	-	846.5
10	829.0	-	844.0
15	831.5	-	841.5

LTE Band 26 Part 90			
BW (MHz)	Operation Frequency (MHz)		
1.4	814.7	-	823.3
3	815.5	-	822.5
5	816.5	-	821.5
10	819.0		
LTE Band 30			
BW (MHz)	Operation Frequency (MHz)		
5	2307.5	-	2312.5
10	2310.0		
LTE Band 38			
BW (MHz)	Operation Frequency (MHz)		
5	2572.5	-	2617.5
10	2575.0	-	2615.0
15	2577.5	-	2612.5
20	2580.0	-	2610.0
LTE Band 41			
BW (MHz)	Operation Frequency (MHz)		
5	2498.5	-	2687.5
10	2501.0	-	2685.0
15	2503.5	-	2682.5
20	2506.0	-	2680.0
LTE Band 42 Part 27			
BW (MHz)	Operation Frequency (MHz)		
5	3452.5	-	3547.5
10	3455.0	-	3545.0
15	3457.5	-	3542.5
20	3460.0	-	3540.0
LTE Band 43 Part 27			
BW (MHz)	Operation Frequency (MHz)		
5	3702.5	-	3797.5
10	3705.0	-	3795.0
15	3707.5	-	3792.5
20	3710.0	-	3790.0

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LTE Band 66			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1779.3
3	1711.5	-	1778.5
5	1712.5	-	1777.5
10	1715.0	-	1775.0
15	1717.5	-	1772.5
20	1720.0	-	1770.0
LTE Band 70			
BW (MHz)	Operation Frequency (MHz)		
5	1697.5	-	1707.5
10	1700.0	-	1705.0
15	1702.5		

LTE Band 71			
BW (MHz)	Operation Frequency (MHz)		
5	665.5	-	695.5
10	668.0	-	693.0
15	670.5	-	690.5
20	673.0	-	688.0
LTE Band 106			
BW (MHz)	Operation Frequency (MHz)		
1.4	898.2	-	899.8
3	899.0		

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1.3 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)	Insertion Loss (dB)	Final Gain (dBi)
LTE Band 2	1850 ~ 1910	3.09	0.6	2.49
LTE Band 4	1710 ~ 1755	3.09	0.6	2.49
LTE Band 5	824 ~ 849	0.58	0.3	0.28
LTE Band 7	2500 ~ 2570	1.69	0.7	0.99
LTE Band 12	699 ~ 716	-1.88	0.3	-2.18
LTE Band 13	777 ~ 787	-1.88	0.3	-2.18
LTE Band 14	788 ~ 798	-1.88	0.3	-2.18
LTE Band 17	704 ~ 716	-1.88	0.3	-2.18
LTE Band 25	1850 ~ 1915	3.09	0.6	2.49
LTE Band 26_P90s	814 ~ 824	-1.88	0.3	-2.18
LTE Band 26	824 ~ 849	0.58	0.3	0.28
LTE Band 30	2305 ~ 2315	1.69	0.7	0.99
LTE Band 38	2570 ~ 2620	1.69	0.7	0.99
LTE Band 41	2496 ~ 2690	1.69	0.7	0.99
LTE Band 42	3400 ~ 3600	1.51	1.1	0.41
LTE Band 43	3600 ~ 3800	1.51	1.1	0.41
LTE Band 66	1710 ~ 1780	3.09	0.6	2.49
LTE Band 70	1695 ~ 1710	3.09	0.6	2.49
LTE Band 71	663 ~ 698	0.14	0.3	-0.16
LTE Band 106	896 ~ 901	0.58	0.3	0.28

Note: The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration 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 / 891563	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 / 200037	
		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 indication where measurements occurred in specific test site and address.				

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 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.

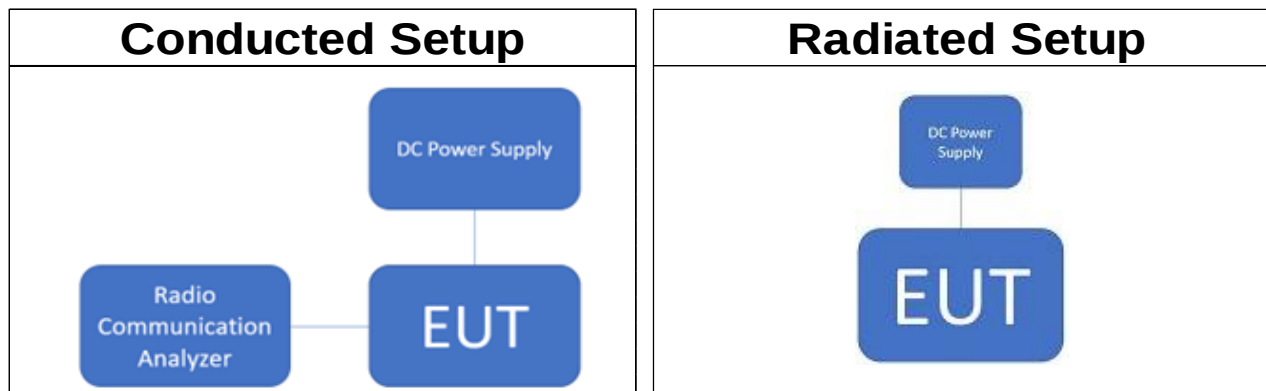
Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.6 Control Unit(s)

N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(b)(9) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2) §27.50(k)(3) §90.542(a)(6) §90.635	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a)(b) §24.238(a)(b) §27.53(a)(4) §27.53(c)(2)~(6) §27.53(f) §27.53(g) §27.53(h) §27.53(h)(1)&(3) §27.53(m)(4) §27.53(n)(2) §90.543(e)(2)~(5) §90.543(f) §90.691(a)	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

Conducted measurement

LTE Band 2							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	18607 to 19193	18607, 18900, 19193	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	18615 to 19185	18615, 18900, 19185	3		V	V	V
	18625 to 19175	18625, 18900, 19175	5		V	V	V
	18650 to 19150	18650, 18900, 19150	10		V	V	V
	18675 to 19125	18675, 18900, 19125	15		V	V	V
	18700 to 19100	18700, 18900, 19100	20		V	V	V

LTE Band 4							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	19957 to 20393	19957, 20175, 20393	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	19965 to 20385	19965, 20175, 20385	3		V	V	V
	19975 to 20375	19975, 20175, 20375	5		V	V	V
	20000 to 20350	20000, 20175, 20350	10		V	V	V
	20025 to 20325	20025, 20175, 20325	15		V	V	V
	20050 to 20300	20050, 20175, 20300	20		V	V	V

LTE Band 5							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	20407 to 20643	20407, 20525, 20643	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	20415 to 20635	20415, 20525, 20635	3		V	V	V
	20425 to 20625	20425, 20525, 20625	5		V	V	V
	20450 to 20600	20450, 20525, 20600	10		V	V	V

LTE Band 7							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	20775 to 21425	20775, 21100, 21425	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	20800 to 21400	20800, 21100, 21400	10		V	V	V
	20825 to 21375	20825, 21100, 21375	15		V	V	V
	20850 to 21350	20850, 21100, 21350	20		V	V	V

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LTE Band 12							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	23017 to 23173	23017, 23095, 23173	1.4	QPSK,16QAM,64QAM,256QAM	V	V	V
	23025 to 23165	23025, 23095, 23165	3		V	V	V
	23035 to 23155	23035, 23095, 23155	5		V	V	V
	23060 to 23130	23060, 23095, 23130	10		V	V	V

LTE Band 13							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	23205 to 23255	23205, 23230, 23255	5	QPSK,16QAM,64QAM,256QAM	V	V	V
	23230	23230	10	AM,256QAM	V	V	V

LTE Band 14							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	23305 to 23355	23305, 23330, 23355	5	QPSK,16QAM,64QAM,256QAM	V	V	V
	23330	23330	10	AM,256QAM	V	V	V

LTE Band 17							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	23755 to 23825	23755, 23790, 23825	5	QPSK,16QAM,64QAM,256QAM	V	V	V
	23780 to 23800	23780, 23790, 23800	10	AM,256QAM	V	V	V

LTE Band 25							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	26047 to 26683	26047, 26365, 26683	1.4	QPSK,16QAM,64QAM,256QAM	V	V	V
	26055 to 26675	26055, 26365, 26675	3		V	V	V
	26065 to 26665	26065, 26365, 26665	5		V	V	V
	26090 to 26640	26090, 26365, 26640	10		V	V	V
	26115 to 26615	26115, 26365, 26615	15		V	V	V
	26140 to 26590	26140, 26365, 26590	20		V	V	V

LTE Band 26							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Power	26697 to 26783	26697, 26740, 26783	1.4	QPSK,16QAM,64QAM,256QAM	V	V	V
	26705 to 26775	26705, 26740, 26775	3		V	V	V
	26715 to 26765	26715, 26740, 26765	5		V	V	V
	26740	26740	10		V	V	V

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LTE Band 26

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	26797 to 27033	26797, 26915, 27033	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	26805 to 27025	26805, 26915, 27025	3		V	V	V
	26815 to 27015	26815, 26915, 27015	5		V	V	V
	26840 to 26990	26840, 26915, 26990	10		V	V	V
	26865 to 26965	26865, 26915, 26965	15		V	V	V

LTE Band 30

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	27685 to 27735	27685, 27710, 27735	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	27710	27710	10		V	V	V

LTE Band 38

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	37775 to 38225	37775, 38000, 38225	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	37800 to 38200	37800, 38000, 38200	10		V	V	V
	37825 to 38175	37825, 38000, 38175	15		V	V	V
	37850 to 38150	37850, 38000, 38150	20		V	V	V

LTE Band 41

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	39675 to 41565	39675, 40620, 41565	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	39700 to 41540	39700, 40620, 41540	10		V	V	V
	39725 to 41515	39725, 40620, 41515	15		V	V	V
	39750 to 41490	39750, 40620, 41490	20		V	V	V

LTE Band 42

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	42115 to 43065	42115, 42590, 43065	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	42140 to 43040	42140, 42590, 43040	10		V	V	V
	42165 to 43015	42165, 42590, 43015	15		V	V	V
	42190 to 42990	42190, 42590, 42990	20		V	V	V

LTE Band 43

Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	44615 to 45565	44615, 45090, 45565	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	44640 to 45540	44640, 45090, 45540	10		V	V	V
	44665 to 45515	44665, 45090, 45515	15		V	V	V
	44690 to 45490	44690, 45090, 45490	20		V	V	V

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LTE Band 66							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	131979 to 132665	131979, 132322, 132665	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	131987 to 132657	131987, 132322, 132657	3		V	V	V
	131997 to 132647	131997, 132322, 132647	5		V	V	V
	132022 to 132622	132022, 132322, 132622	10		V	V	V
	132047 to 132597	132047, 132322, 132597	15		V	V	V
	132072 to 132572	132072, 132322, 132572	20		V	V	V

LTE Band 70							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	132997 to 133097	132997, 133047, 133097	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	133022 to 133072	133022, 133047, 133072	10		V	V	V
	133047	133047	15		V	V	V

LTE Band 71							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	133147 to 133447	133147, 133297, 133447	5	QPSK,16QAM,64Q AM,256QAM	V	V	V
	133172 to 133422	133172, 133297, 133422	10		V	V	V
	133197 to 133397	133197, 133297, 133397	15		V	V	V
	133222 to 133372	133222, 133297, 133372	20		V	V	V

LTE Band 106							
Test Item	Available Channel	Tested Channel	BW(MHz)	Modulation	RB Size 1RB	RB Size Half RB	RB Size Full RB
Max. OutPut Pow er	134314 to 134330	134314, 134322, 134330	1.4	QPSK,16QAM,64Q AM,256QAM	V	V	V
	134322	134322	3		V	V	V

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Radiated measurement

E-UTRA Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Offset
4	20175	20	QPSK	1	0
5	20407	1.4	QPSK	1	0
41	40620	15	QPSK	1	0
43	45515	15	QPSK	1	0

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
Power Density	+/- 0.61 dB
Output Power measurement	+/- 0.97 dB
ERP/ EIRP measurement	+/- 2.16 dB
	+/- 2.16 dB
Emission Bandwidth	+/- 1.38 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.77 dB
Peak to Average Ratio	+/- 0.97 dB
Frequency Stability vs. Temperature	+/- 1.48 Hz
Frequency Stability vs. Voltage	+/- 1.48 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.1 dB	30MHz - 1000MHz
	+/-	3.37 dB	1GHz - 18GHz
	+/-	3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.71 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.84 dB	140GHz-220GHz

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/13/2024	09/12/2025
Radio Communication Analyzer	Anritsu	MT8821C	6262044751	11/04/2024	11/03/2025

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6.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
1.3G High Pass Filter	Woken	WHKX10-1066	19	12/11/2024	12/10/2025
3G High Pass Filter	Titan	T04H30001800070 S01	23040703-34	12/11/2024	12/10/2025
4G High Pass Filter	WI	WHKX4.0	23	12/11/2024	12/10/2025
7G High Pass Filter	WI	WHKX7.0	45	12/11/2024	12/10/2025
Band Reject Filter 1700-2000	Titan	T04N800100050S0 1	23040703-7	12/11/2024	12/10/2025
Band Reject Filter 2240-2700	Titan	T04N2240270050S 01	23040703-12	12/11/2024	12/10/2025
Band Reject Filter 3300-3800	Titan	T04N3300380050S 01	23040703-14	12/11/2024	12/10/2025
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900- 40/12SS	1	12/11/2024	12/10/2025
Band Reject Filter 635-920	Titan	T04N63592050S01	23040703-4	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/09/2024	12/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM- 8000+EMC106-SM- SM-7600	RX Cable 9K- 18G(160125+15081 7)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062 /2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/22/2025	01/21/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	ETS.LINDGREN	3117	143271	01/09/2025	01/08/2026
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Network Analyzer	Anritsu	MS4644A	1216312	12/25/2024	12/24/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	12/31/2024	12/30/2025
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: N.C.R refers to Not Calibrated Required.

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7 STANDARD APPLICABLE

7.1 Maximum Output Power

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

FCC 27.50 (b)

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

FCC 90.542(a)

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

FCC 90.635(b)

Mobile station is limited to 100W ERP.

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7.2 Field Strength Of Spurious Radiation Measurement

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (ii) By a factor of not less than $70 + 10 \log(P)$ dB below 2288 MHz;
 - (iii) By a factor of not less than $70 + 10 \log(P)$ dB above 2365 MHz.

FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §90.543 (f)

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms

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and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

FCC §90.691 Emission mask requirements for EA-based systems

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

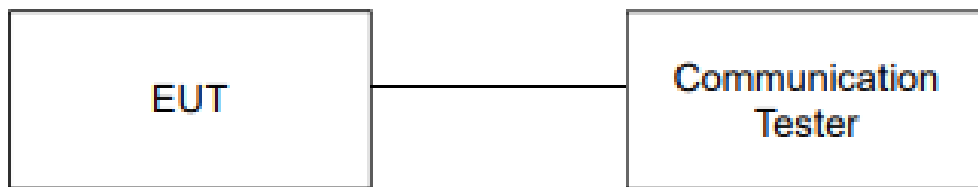
(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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8 TEST SETUP

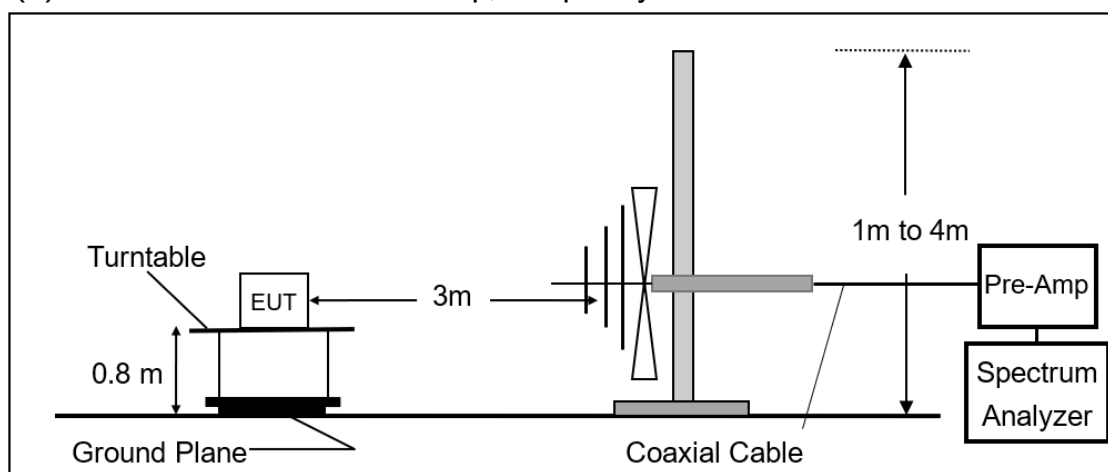
8.1 Maximum Output Power



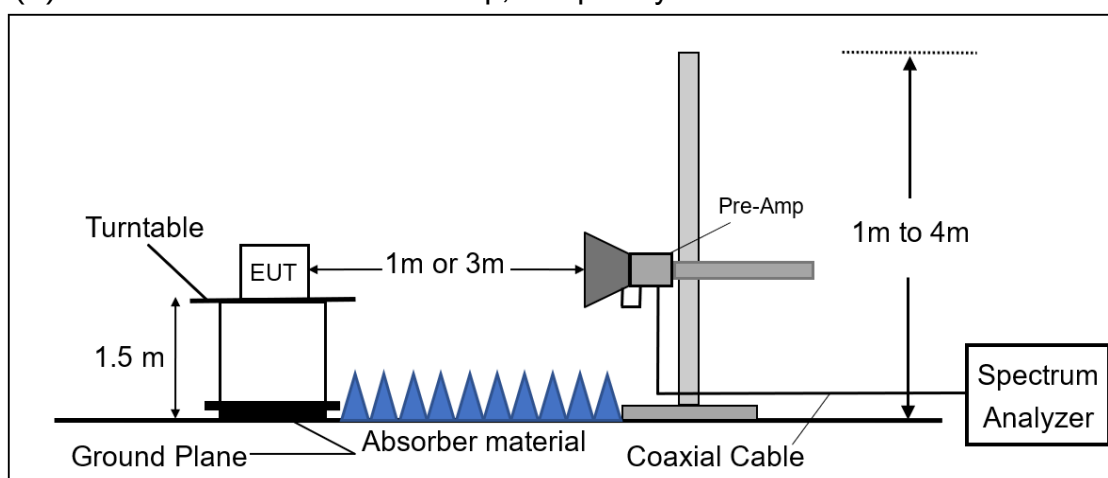
Note: Measurement setup for testing on Antenna connector

8.2 Field Strength of Spurious Radiation Measurement

(A) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(B) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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9 TEST PROCEDURE

9.1 Maximum Output Power

9.1.1 Output Power Measurement Applicable Guidance

The transmitter output was connected to a communication tester. Transmitter output was read off the communication tester in dBm. The power output at the transmitter antenna port was determined by the communication tester reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

9.1.2 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

9.2 Field Strength of Spurious Radiation Measurement

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBd)} + \text{Cable Loss (dB)}$$

$$EIRP \text{ (dBm)} = \text{SG Level (dBm)} + \text{Antenna Gain (dBi)} + \text{Cable Loss (dB)}$$

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10 MEASUREMENT RESULTS

Please refer to the Annex A-Measurement Results.

~ End of Report ~

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