



# FCC RADIO TEST REPORT

**FCC ID** : PKRISGFW2000  
**Equipment** : 5G CPE Wireless Solution  
**Brand Name** : Inseego  
**Model Name** : FW2000  
**Marketing Name** : FW2000,FW2000e  
**Applicant** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Manufacturer** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Standard** : FCC 47 CFR Part 2, 96

The product was received on Feb. 23, 2021 and testing was started from Feb. 27, 2021 and completed on May 16, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issued Date
FG082512-01C	01	Initial issue of report	May 20, 2021

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Required	-
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§96.41	Power Density	Not Required	-
-	§2.1049 §96.41	Occupied Bandwidth	Not Required	-
-	§2.1051 §96.41	Conducted Band Edge Measurement	Not Required	-
-	§2.1051 §96.41	Conducted Spurious Emission	Not Required	-
-	§2.1055	Frequency Stability for Temperature & Voltage	Not Required	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 3.17 dB at 7282.000 MHz

**Remark:**

- Not required means after assessing, test items are not necessary to carry out.
- This is a variant report by revising antenna path and enable LTE Band 43. All the test cases were performed on original report which can be referred to Sporton Report Number FG082512E. Based on the original report, the test cases were verified.

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Lewis Ho**

**Report Producer: Dara Chiu**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

LTE/5G NR, Bluetooth, and GNSS

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed Internal Antenna Bluetooth: Fixed Internal Antenna GPS/Glonass/Galileo/BDS : Fixed Internal Antenna
Antenna Gain	<Ant. 4>: LTE Band 42: 13.3 dBi LTE Band 43: 12.2 dBi LTE Band 48: 11.7 dBi

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

## 1.2 Modification of EUT

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

### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH03-HY
<b>Test Engineer</b>	Benjamin Lin
<b>Temperature</b>	23.8~24.5℃
<b>Relative Humidity</b>	48.9~51.5%

<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> 03CH12-HY (TAF Code: 3786)
<b>Test Engineer</b>	Jack Cheng, Lance Chiang and Chuan Chu
<b>Temperature</b>	20.7~26.5℃
<b>Relative Humidity</b>	58.6~67.7%
<b>Remark</b>	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

### 1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRs Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

**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

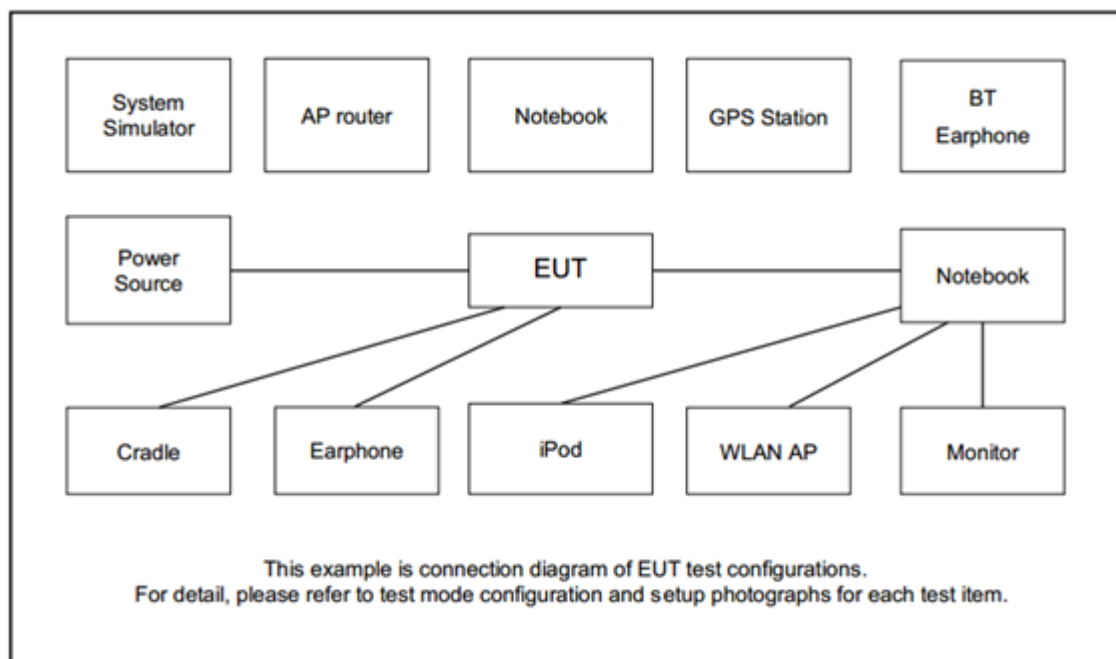
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	43	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
E.R.P / E.I.R.P	43	-	-	v	v	v	v	v	v	v	Max Power					
Radiated Spurious Emission	43	Worst Case												v	v	v
Remark	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Wider operating range bandwidth covers narrower one when the power is higher or the same. Thus, the conducted test items of LTE Band 43 were covered by Band 48.															

### 2.2 Connection Diagram of Test System





## 2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

## 2.4 Frequency List of Low/Middle/High Channels

LTE Band 43 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	43690	44090	44490
	Frequency	3610.0	3650.0	3690.0
15	Channel	43665	44090	44515
	Frequency	3607.5	3650.0	3692.5
10	Channel	43640	44090	44540
	Frequency	3605.0	3650.0	3695.0
5	Channel	43615	44090	44565
	Frequency	3602.5	3650.0	3697.5



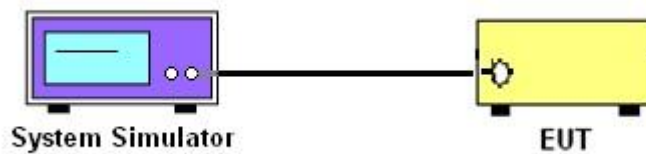
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.2 Conducted Output Power**

### **3.2.1 Description of the Conducted Output Power Measurement**

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

### **3.2.2 Test Procedures**

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

### 3.3 EIRP

#### 3.3.1 Description of the EIRP Measurement

The EIRP of transmitters must not exceed 47 dBm /10 megahertz

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

EIRP limits for CBRS equipment as below table:

Device	Maximum EIRP (dBm/10 MHz)
Category B CBSD	47

#### 3.3.1 Test Procedures.

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

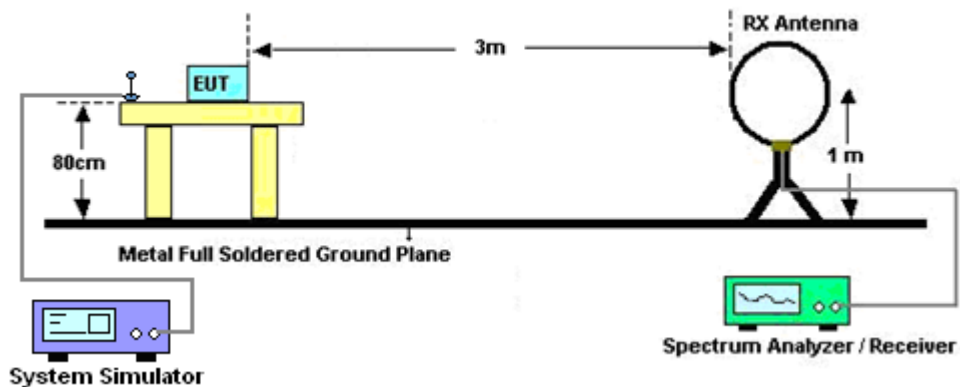
## 4 Radiated Test Items

### 4.1 Measuring Instruments

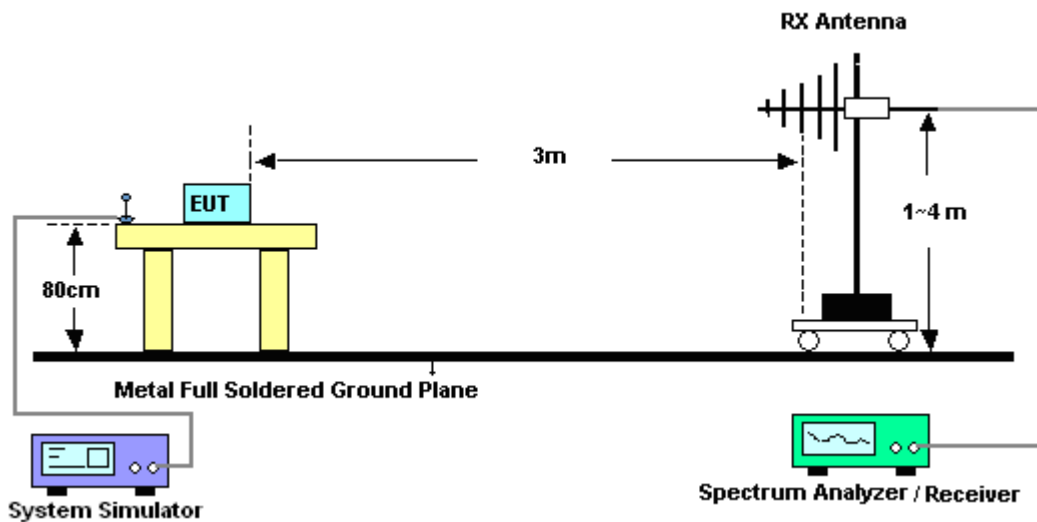
See list of measuring instruments of this test report.

### 4.2 Test Setup

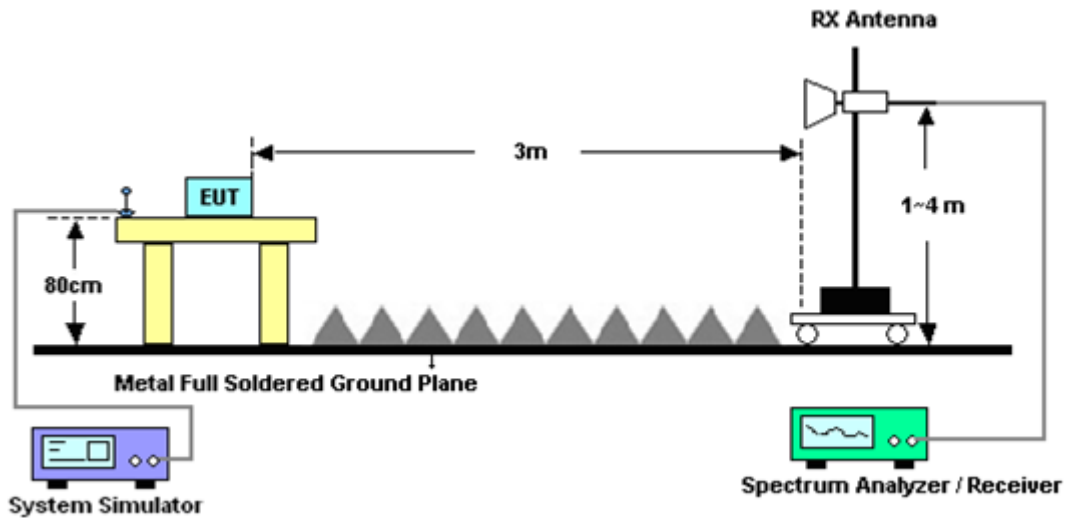
For radiated emissions below 30MHz



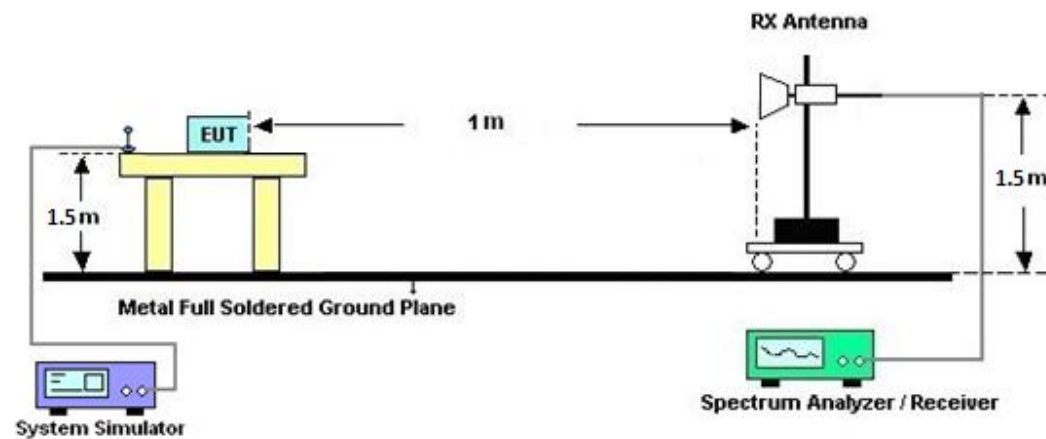
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz to 18GHz



For radiated emissions above 18GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz .

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.  
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is -40dBm/MHz



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Feb. 27, 2021~ Mar. 04, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Feb. 27, 2021~ Mar. 04, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Feb. 27, 2021~ Mar. 04, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 20, 2020	Feb. 27, 2021~ Mar. 04, 2021	May 19, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Dec. 19, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz~40GHz	May 22, 2019	Feb. 27, 2021~ Mar. 04, 2021	May 21, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Feb. 27, 2021~ Mar. 04, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 05, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Feb. 27, 2021~ Mar. 04, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 04, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 04, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Feb. 27, 2021~ Mar. 04, 2021	N/A	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 21, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 20, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Jul. 14, 2020	Feb. 27, 2021~ Mar. 04, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 18, 2020	Feb. 27, 2021~ Mar. 04, 2021	Mar. 17, 2021	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station (Measure)	Anritsu	MT8821C	6262025341	N/A	Oct. 06, 2020	May 01, 2021~ May 16, 2021	Oct. 05, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 27, 2020	May 01, 2021~ May 16, 2021	Nov. 26, 2021	Conducted (TH03-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Aug. 05, 2020	May 01, 2021~ May 16, 2021	Aug. 04, 2021	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 05, 2020	May 01, 2021~ May 16, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 09, 2021	May 01, 2021~ May 16, 2021	Jan. 08, 2022	Conducted (TH03-HY)



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	3.07
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	3.21
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	3.80
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & EIRP)

LTE Band 43 Maximum Average Power [dBm] (GT - LC = 12.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	20.89	20.65	21.19	33.39	2.1827
20	1	49		20.80	20.61	21.06		
20	1	99		20.44	21.08	21.03		
20	50	0		20.07	19.69	20.01		
20	50	24		19.95	19.81	20.21		
20	50	50		19.73	20.02	20.22		
20	100	0		19.89	19.89	20.17		
20	1	0	16-QAM	19.97	19.68	19.79	32.37	1.7258
20	1	49		19.83	19.65	20.16		
20	1	99		19.53	20.17	20.16		
20	50	0		19.06	18.71	19.03		
20	50	24		18.99	18.83	19.22		
20	50	50		18.77	19.01	19.21		
20	100	0		18.89	18.93	19.17		
20	1	0	64-QAM	18.87	18.69	18.61	31.40	1.3804
20	1	49		18.79	18.51	19.09		
20	1	99		18.50	19.06	19.20		
20	50	0		18.06	17.74	18.05		
20	50	24		18.02	17.83	18.27		
20	50	50		17.81	18.02	18.25		
20	100	0		17.92	17.89	18.20		
Limit	EIRP < 47dBm/10MHz			Result			Pass	



LTE Band 43 Maximum Average Power [dBm] (GT - LC = 12.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	20.90	20.64	21.04	33.37	2.1727
15	1	37		20.86	20.68	21.17		
15	1	74		20.68	21.04	21.14		
15	36	0		20.10	19.72	20.22		
15	36	20		20.08	19.81	20.34		
15	36	39		19.94	19.95	20.28		
15	75	0		20.04	19.91	20.27		
15	1	0	16-QAM	19.92	19.75	20.12	32.36	1.7219
15	1	37		20.06	19.76	20.14		
15	1	74		19.76	19.98	20.16		
15	36	0		19.07	18.72	19.20		
15	36	20		19.07	18.87	19.30		
15	36	39		18.91	18.94	19.27		
15	75	0		19.01	18.88	19.24		
15	1	0	64-QAM	18.85	18.58	18.88	31.31	1.3521
15	1	37		18.78	18.69	19.08		
15	1	74		18.70	19.10	19.11		
15	36	0		18.06	17.77	18.24		
15	36	20		18.06	17.91	18.33		
15	36	39		17.97	17.99	18.29		
15	75	0		18.03	17.91	18.27		
Limit	EIRP < 47dBm/10MHz			Result			Pass	



LTE Band 43 Maximum Average Power [dBm] (GT - LC = 12.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	20.98	20.74	21.14	33.34	2.1577
10	1	25		21.03	20.79	21.13		
10	1	49		20.95	21.03	21.10		
10	25	0		20.12	19.78	20.31		
10	25	12		20.12	19.88	20.38		
10	25	25		20.09	19.98	20.38		
10	50	0		20.11	19.93	20.40		
10	1	0	16-QAM	19.95	19.85	20.35	32.55	1.7989
10	1	25		20.05	19.84	20.35		
10	1	49		20.03	20.08	20.32		
10	25	0		19.09	18.72	19.28		
10	25	12		19.18	18.87	19.35		
10	25	25		19.08	18.96	19.36		
10	50	0		19.14	18.90	19.35		
10	1	0	64-QAM	18.95	18.64	19.06	31.59	1.4421
10	1	25		18.95	18.72	19.39		
10	1	49		18.99	19.05	19.32		
10	25	0		18.14	17.81	18.32		
10	25	12		18.12	17.91	18.35		
10	25	25		18.08	18.02	18.35		
10	50	0		18.12	17.91	18.34		
Limit	EIRP < 47dBm/10MHz			Result			Pass	



LTE Band 43 Maximum Average Power [dBm] (GT - LC = 12.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	21.08	20.69	21.16	33.36	2.1677
5	1	12		20.96	20.71	21.09		
5	1	24		21.06	20.88	21.11		
5	12	0		20.09	19.80	20.31		
5	12	7		20.03	19.91	20.34		
5	12	13		20.03	19.89	20.28		
5	25	0		20.06	19.90	20.31		
5	1	0	16-QAM	20.11	19.73	20.39	32.59	1.8155
5	1	12		20.07	19.84	20.31		
5	1	24		20.10	19.99	20.34		
5	12	0		19.07	18.91	19.33		
5	12	7		19.10	18.93	19.32		
5	12	13		19.10	18.90	19.37		
5	25	0		19.08	18.82	19.32		
5	1	0	64-QAM	18.71	18.69	19.28	31.53	1.4223
5	1	12		19.04	18.85	19.29		
5	1	24		19.13	18.82	19.33		
5	12	0		18.06	17.81	18.38		
5	12	7		18.09	17.91	18.34		
5	12	13		18.06	17.86	18.33		
5	25	0		18.10	17.91	18.38		
Limit	EIRP < 47dBm/10MHz			Result			Pass	



## Appendix B. Test Results of Radiated Test

### LTE Band 43

LTE Band 43 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7202	-44.66	-40	-4.66	-40.6	-54.41	1.83	11.58	H
	10803	-53.72	-40	-13.72	-51.31	-62.07	2.55	10.90	H
	14404	-55.60	-40	-15.60	-57.92	-63.97	2.86	11.23	H
	18000	-54.51	-40	-14.51	-72.37	-59.49	1.92	6.90	H
	21607	-51.25	-40	-11.25	-72.62	-68.03	1.96	18.74	H
	25203	-51.88	-40	-11.88	-76.93	-68.35	2.12	18.58	H
	28811	-50.38	-40	-10.38	-75.66	-67.26	2.34	19.23	H
	32410	-51.36	-40	-11.36	-77.21	-68.81	2.25	19.70	H
	7202	-56.43	-40	-16.43	-52.09	-66.18	1.83	11.58	V
	10803	-52.64	-40	-12.64	-50.01	-60.99	2.55	10.90	V
	14404	-56.24	-40	-16.24	-57.87	-64.61	2.86	11.23	V
	18000	-54.84	-40	-14.84	-71.76	-59.82	1.92	6.90	V
	21607	-51.65	-40	-11.65	-73.01	-68.43	1.96	18.74	V
	25203	-51.65	-40	-11.65	-77.09	-68.12	2.12	18.58	V
	28811	-50.82	-40	-10.82	-75.53	-67.70	2.34	19.23	V
	32410	-50.42	-40	-10.42	-77.31	-67.87	2.25	19.70	V



LTE Band 43 / 20MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	7282	-43.17	-40	-3.17	-39.01	-52.75	1.87	11.45	H
	10923	-55.24	-40	-15.24	-53	-63.53	2.61	10.90	H
	14564	-55.24	-40	-15.24	-57.8	-63.58	2.87	11.20	H
	18210	-54.59	-40	-14.59	-72.66	-70.75	1.80	17.96	H
	21851	-53.63	-40	-13.63	-75.09	-70.42	2.05	18.84	H
	25492	-51.55	-40	-11.55	-77	-68.37	2.17	18.99	H
	29132	-51.01	-40	-11.01	-76.1	-67.78	2.31	19.08	H
	32773	-50.21	-40	-10.21	-76.64	-67.59	2.32	19.70	H
	7282	-49.60	-40	-9.60	-45.2	-59.18	1.87	11.45	V
	10923	-58.20	-40	-18.20	-55.77	-66.49	2.61	10.90	V
	14564	-56.79	-40	-16.79	-58.24	-65.13	2.87	11.20	V
	18210	-55.44	-40	-15.44	-72.61	-71.60	1.80	17.96	V
	21851	-51.20	-40	-11.20	-72.65	-67.99	2.05	18.84	V
	25492	-49.65	-40	-9.65	-76.44	-66.47	2.17	18.99	V
	29132	-49.37	-40	-9.37	-76.02	-66.14	2.31	19.08	V
	32773	-49.29	-40	-9.29	-76.88	-66.67	2.32	19.70	V
Highest	7362	-44.59	-40	-4.59	-40.32	-54.00	1.92	11.32	H
	11043	-57.04	-40	-17.04	-55.06	-65.36	2.63	10.95	H
	14724	-54.21	-40	-14.21	-57.58	-63.01	2.91	11.72	H
	18410	-54.71	-40	-14.71	-72.99	-70.76	1.87	17.92	H
	22084	-53.13	-40	-13.13	-75.03	-69.92	2.08	18.87	H
	25770	-51.06	-40	-11.06	-76.95	-68.08	2.03	19.05	H
	29451	-48.14	-40	-8.14	-72.68	-65.26	2.15	19.27	H
	33125	-49.88	-40	-9.88	-76.77	-67.14	2.44	19.70	H
	7362	-49.92	-40	-9.92	-45.47	-59.33	1.92	11.32	V
	11043	-57.75	-40	-17.75	-55.61	-66.07	2.63	10.95	V
	14724	-56.20	-40	-16.20	-57.9	-65.00	2.91	11.72	V
	18410	-55.63	-40	-15.63	-73.03	-71.68	1.87	17.92	V
	22084	-53.89	-40	-13.89	-75.79	-70.68	2.08	18.87	V
	25770	-50.08	-40	-10.08	-77.15	-67.10	2.03	19.05	V
	29451	-49.54	-40	-9.54	-75.69	-66.66	2.15	19.27	V
	33125	-48.71	-40	-8.71	-76.85	-65.97	2.44	19.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.