



# FCC RF Test Report

**APPLICANT** : Inseego Corp.  
**EQUIPMENT** : 5G High Performance Sub6 & mmWave Outdoor CPE  
**BRAND NAME** : Inseego  
**MODEL NAME** : FW2010-1, FW2010e-1  
**FCC ID** : PKRISGFW2010  
**STANDARD** : 47 CFR Part 2, 27(F), 27(H), 27(M), 27(N)  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

The product was received on Dec. 16, 2020 and completely tested on Feb. 23, 2021. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Brand Name: Inseego, Model Name: MD2000, FCC ID: PKRISGMD2000) during the test, only ERP/EIRP and RSE test items are tested in this report, all the other test results are quoted on module RF report.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

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**Sporton International (Kunshan) Inc.**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only & §27.50(h)(2)< 2Watt	PASS	1
	§27.50(b)(9) §27.50(c)(9)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 30 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	-	PASS	-
-	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log <sub>10</sub> (P[Watts])	PASS	1
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
-	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log <sub>10</sub> (P[Watts])	PASS	1
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log <sub>10</sub> (P[Watts])		
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	1
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 21.64 dB at 17680.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log <sub>10</sub> (P[Watts])		

**Remark :**

- All conducted test items were leveraged from module RF report which can refer to Report No. FG090125B, and conducted test items of CA\_B38C/41C are referred to module RF report FG090125-01A.
- The maximum power of host is lower than and very close to the module, therefore, we chose higher power of the module to calculate the ERP/EIRP and show in the report.

**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.



# 1 General Description

## 1.1 Applicant

Inseego Corp.  
9710 Scranton Road, Suite 200 San Diego, CA 92121

## 1.2 Manufacturer

MeiG Smart Technology Co., Ltd  
Floor 2, Office Building No.5, Lingxia Road, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G High Performance Sub6 & mmWave Outdoor CPE
Brand Name	Inseego
Model Name	FW2010-1, FW2010e-1
FCC ID	PKRISGFW2010
EUT supports Radios application	LTE/5G NR/GNSS Bluetooth LE
HW Version	4
SW Version	2.384
EUT Stage	Identical Prototype



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 698 MHz
<b>Rx Frequency</b>	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 617 MHz ~ 652 MHz
<b>Bandwidth</b>	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
<b>Antenna Gain</b>	LTE Band 7: 5.56 dBi LTE Band 12: 0.97 dBi LTE Band 13: 2.20 dBi LTE Band 17: 0.97 dBi LTE Band 38: 5.56 dBi LTE Band 41: 5.56 dBi LTE Band 71: 0.25 dBi
<b>Type of Modulation</b>	QPSK / 16QAM / 64QAM

Remark: LTE band 41 supports HPUE.

### 1.5 Modification of EUT

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



### 1.6 Maximum ERP/EIRP Power

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	2510.0 ~ 2560.0	-	-	0.8710	-	-	0.7129
LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
10	704.0 ~ 711.0	-	-	0.1803	-	-	0.1521
LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
10	782.0	-	-	0.2344	-	-	0.2018
LTE Band 17		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
10	709.0 ~ 711.0	-	-	0.1803	-	-	0.1521
LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	2580.0 ~ 2610.0	-	-	0.8035	-	-	0.6561
LTE Band 41 (HPUE)		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	2506.0 ~ 2680.0	-	-	1.3677	-	-	1.0940
LTE Band 71		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
20	673.0 ~ 688.0	-	-	0.1549	-	-	0.1288



LTE Band 38 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20MHz+20MHz	-	-	0.7430	-	-	0.5346
LTE Band 41 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20MHz+20MHz	-	-	0.7430	-	-	0.5346

Note:

1. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
2. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
3. LTE Band 41\_CA overlaps the entire frequency range of LTE Band 38\_CA. Therefore, the test results provided in this report covers Band 41\_CA as well as Band 38\_CA.
4. Based on engineering evaluation, only the maximum bandwidth and the worst modulation test results are shown in the report.





### 1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International (Kunshan) Inc.		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS	CN1257	314309

### 1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

### 1.9 Applicable Standards

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

- 47 CFR Part 2, 27(F),27(H),27(M),27(N)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

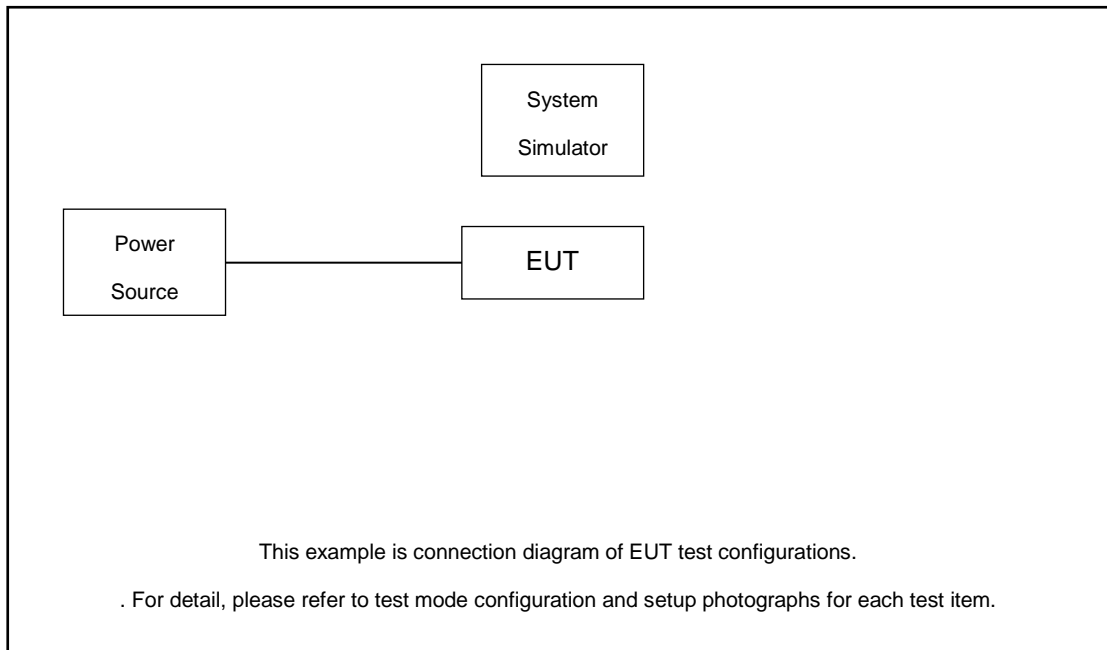
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	-	v			v	v	v	
	12	v	v	v	v	-	-	v	v	v	-	v			v	v	v	
	13	-	-	v	v	-	-	v	v	v	-	v			v	v	v	
	41	-	-	v	v	v	v	v	v	v	-	v			v	v	v	
	71	-	-	v	v	v	v	v	v	v	-	v			v	v	v	
Radiated Spurious Emission	7	Worst Case															v	
	12	Worst Case															v	
	13	Worst Case															v	
	41	Worst Case															v	
	71	Worst Case															v	
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>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.</li> <li>LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.</li> <li>LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.</li> </ol>																	

Test Items	Band	Bandwidth (MHz)										Modulation				RB #			Test Channel			
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	-	1	Half	Full	L	M	H	
E.I.R.P.	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	-	v			v	v	v	
Radiated Spurious Emission	41C_CA	Worst Case																		v		
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>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.</li> <li>LTE Band 41_CA overlaps the entire frequency range of LTE Band 38_CA. Therefore, the test results provided in this report covers Band 41_CA as well as Band 38_CA.</li> </ol>																					

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	POE Adapter	N/A	N/A	N/A	N/A	N/A



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

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5



LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

LTE Band 38C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest	
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5



LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7





### 3 Conducted Test Items

#### 3.1 Conducted Output Power and ERP/EIRP

##### 3.1.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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.

The ERP of transmitters must not exceed 30 Watts for LTE Band 12, Band 13 and Band 17 and Band 71.

The conducted Power of transmitters must not exceed 2 Watts for LTE Band 7 and Band 38 and Band 41.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , 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

##### 3.1.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

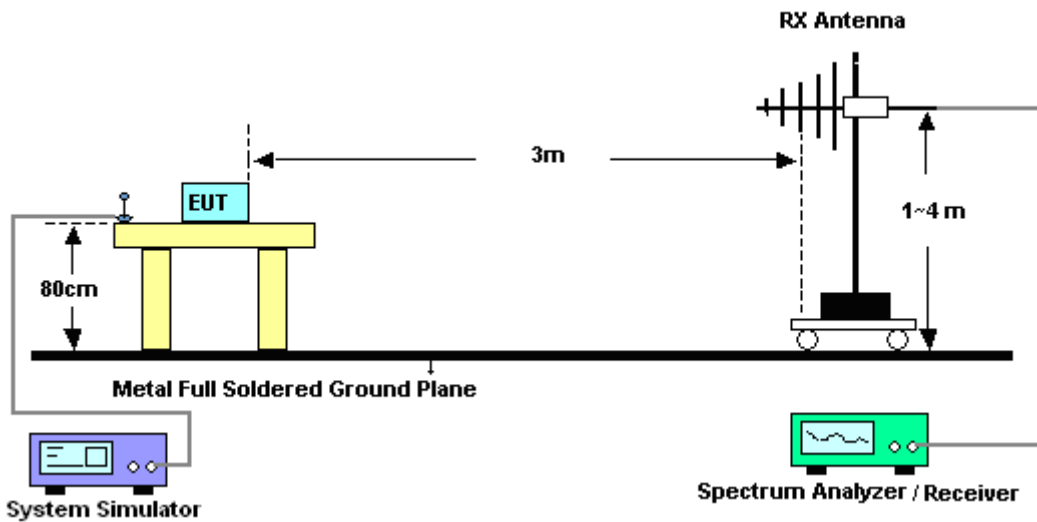
## 4 Radiated Test Items

### 4.1 Measuring Instruments

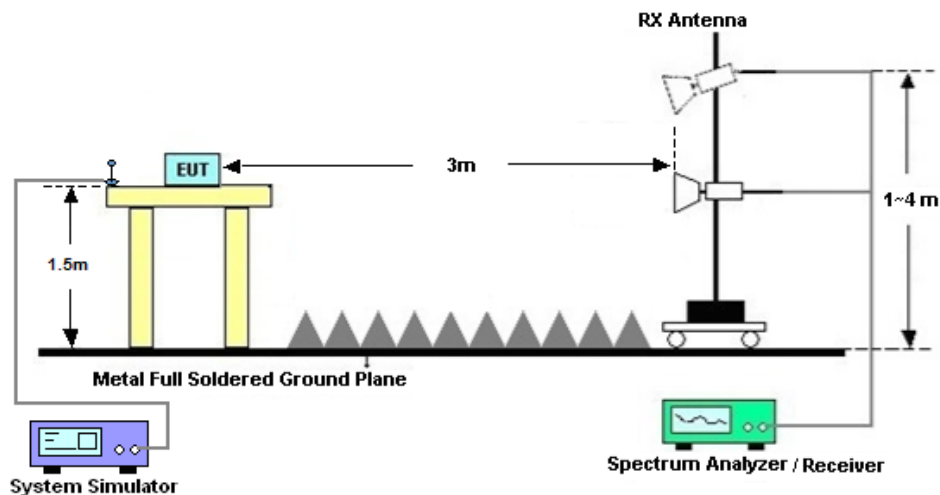
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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  $43 + 10 \log (P)$  dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.

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

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] (dB)$   
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$   
 $= -13dBm.$
13. For Band 7, 38, 41:  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
The Limit line lower than step 12.



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Feb. 23, 2021	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 08, 2020	Feb. 23, 2021	Jun. 07, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Feb. 23, 2021	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Feb. 23, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Feb. 23, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Feb. 23, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Feb. 23, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Feb. 23, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 23, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 23, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 23, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
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### Appendix A. Test Results of Conducted Test

## Conducted Output Power(Average power) and ERP/EIRP

#### LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				20850	20850	21350	EIRP		
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	23.58	23.84	23.79	0.8204	0.8710	0.8610
20	QPSK	1	49	23.42	23.76	23.78	0.7907	0.8551	0.8590
20	QPSK	1	99	23.35	23.59	23.71	0.7780	0.8222	0.8453
20	QPSK	50	0	22.43	22.77	22.81	0.6295	0.6808	0.6871
20	QPSK	50	24	22.58	22.84	22.86	0.6516	0.6918	0.6950
20	QPSK	50	50	22.62	22.92	22.89	0.6577	0.7047	0.6998
20	QPSK	100	0	22.54	22.83	22.85	0.6457	0.6902	0.6934
20	16QAM	1	0	22.74	22.93	22.97	0.6761	0.7063	0.7129
20	64QAM	1	0	21.63	21.85	21.83	0.5236	0.5508	0.5483
Channel				20825	21100	21375	EIRP		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	23.54	23.84	23.76	0.8128	0.8710	0.8551
15	16QAM	1	0	22.64	22.89	22.88	0.6607	0.6998	0.6982
Channel				20800	21100	21400	EIRP		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.53	23.77	23.78	0.8110	0.8570	0.8590
10	16QAM	1	0	22.53	22.88	22.93	0.6442	0.6982	0.7063
Channel				20775	21100	21425	EIRP		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	23.51	23.77	23.79	0.8072	0.8570	0.8610
5	16QAM	1	0	22.73	22.91	22.96	0.6745	0.7031	0.7112



LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP		
Channel				23060	23095	23160			
Frequency (MHz)				704	707.5	714	L	M	H
10	QPSK	1	0	23.42	23.54	23.74	0.1675	0.1722	0.1803
10	QPSK	1	25	23.31	23.47	23.57	0.1633	0.1694	0.1734
10	QPSK	1	49	23.24	23.32	23.50	0.1607	0.1637	0.1706
10	QPSK	25	0	22.39	22.52	22.66	0.1321	0.1361	0.1406
10	QPSK	25	12	22.52	22.63	22.68	0.1361	0.1396	0.1413
10	QPSK	25	25	22.53	22.71	22.78	0.1365	0.1422	0.1445
10	QPSK	50	0	22.53	22.61	22.68	0.1365	0.1390	0.1413
10	16QAM	1	0	22.61	22.82	23.00	0.1390	0.1459	0.1521
10	64QAM	1	0	21.73	21.94	21.89	0.1135	0.1191	0.1178
Channel				23035	23095	23205	EIRP		
Frequency (MHz)				701.5	707.5	718.5	L	M	H
5	QPSK	1	0	23.19	23.59	23.73	0.1589	0.1742	0.1799
5	16QAM	1	0	22.55	22.79	22.97	0.1371	0.1449	0.1510
Channel				23025	23095	23195	EIRP		
Frequency (MHz)				700.5	707.5	717.5	L	M	H
3	QPSK	1	0	23.31	23.58	23.73	0.1633	0.1738	0.1799
3	16QAM	1	0	22.61	22.84	22.99	0.1390	0.1466	0.1517
Channel				23017	23095	23173	EIRP		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	23.22	23.46	23.69	0.1600	0.1690	0.1782
1.4	16QAM	1	0	22.49	22.86	22.99	0.1352	0.1472	0.1517



**LTE Band 13:**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		23.65			0.2344	
10	QPSK	1	25		23.53			0.2280	
10	QPSK	1	49		23.50			0.2265	
10	QPSK	25	0		22.55			0.1820	
10	QPSK	25	12		22.63			0.1854	
10	QPSK	25	25		22.64			0.1858	
10	QPSK	50	0		22.61			0.1845	
10	16QAM	1	0		23.00			0.2018	
10	64QAM	1	0		21.93			0.1578	
Channel				23205	23230	23255	EIRP		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	23.54	23.64	23.63	0.2286	0.2339	0.2333
5	16QAM	1	0	22.66	22.91	22.77	0.1866	0.1977	0.1914





LTE Band 38:

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	EIRP		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	23.49	23.40	23.35	0.8035	0.7870	0.7780
20	QPSK	1	49	23.48	23.42	23.40	0.8017	0.7907	0.7870
20	QPSK	1	99	23.46	23.42	23.37	0.7980	0.7907	0.7816
20	QPSK	50	0	22.63	22.57	22.48	0.6592	0.6501	0.6368
20	QPSK	50	24	22.65	22.60	22.59	0.6622	0.6546	0.6531
20	QPSK	50	50	22.54	22.58	22.54	0.6457	0.6516	0.6457
20	QPSK	100	0	22.55	22.59	22.54	0.6471	0.6531	0.6457
20	16QAM	1	0	22.61	22.49	22.43	0.6561	0.6383	0.6295
20	64QAM	1	0	21.27	21.31	21.26	0.4819	0.4864	0.4808
Channel				37825	38000	38175	EIRP		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	23.47	23.41	23.39	0.7998	0.7889	0.7852
15	16QAM	1	0	22.55	22.57	22.48	0.6471	0.6501	0.6368
Channel				37800	38000	38200	EIRP		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	23.43	23.30	23.40	0.7925	0.7691	0.7870
10	16QAM	1	0	22.52	22.52	22.46	0.6427	0.6427	0.6339
Channel				37775	38000	38225	EIRP		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	23.34	23.45	23.36	0.7762	0.7962	0.7798
5	16QAM	1	0	22.60	22.57	22.60	0.6546	0.6501	0.6546



LTE Band 41:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	25.19	25.20	25.80	1.1885	1.1912	1.3677
20	QPSK	1	49	25.00	25.20	25.60	1.1376	1.1912	1.3062
20	QPSK	1	99	25.33	24.82	25.80	1.2274	1.0914	1.3677
20	QPSK	50	0	24.19	24.37	24.86	0.9441	0.9840	1.1015
20	QPSK	50	24	24.27	24.27	24.89	0.9616	0.9616	1.1092
20	QPSK	50	50	24.10	23.78	24.82	0.9247	0.8590	1.0914
20	QPSK	100	0	24.34	24.03	24.84	0.9772	0.9099	1.0965
20	16QAM	1	0	24.65	24.33	24.83	1.0495	0.9750	1.0940
20	64QAM	1	0	22.35	22.40	23.76	0.6180	0.6252	0.8551
Channel				39725	40620	41515	EIRP		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	25.10	24.97	25.79	1.1641	1.1298	1.3646
15	16QAM	1	0	24.47	24.70	24.97	1.0069	1.0617	1.1298
Channel				39700	40620	41540	EIRP		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	24.97	25.13	25.70	1.1298	1.1722	1.3366
10	16QAM	1	0	24.44	24.12	24.91	1.0000	0.9290	1.1143
Channel				39675	40620	41565	EIRP		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	24.83	25.06	25.64	1.0940	1.1535	1.3183
5	16QAM	1	0	24.55	24.22	24.84	1.0257	0.9506	1.0965



LTE Band 71:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688	L	M	H
20	QPSK	1	0	23.80	23.65	23.68	0.1549	0.1496	0.1507
20	QPSK	1	49	23.57	23.61	23.65	0.1469	0.1483	0.1496
20	QPSK	1	99	23.53	23.49	23.45	0.1455	0.1442	0.1429
20	QPSK	50	0	22.71	22.69	22.72	0.1205	0.1199	0.1208
20	QPSK	50	24	22.70	22.65	22.66	0.1202	0.1189	0.1191
20	QPSK	50	50	22.66	22.64	22.62	0.1191	0.1186	0.1180
20	QPSK	100	0	22.72	22.67	22.75	0.1208	0.1194	0.1216
20	16QAM	1	0	23.00	22.95	22.97	0.1288	0.1274	0.1279
20	64QAM	1	0	21.97	21.86	21.90	0.1016	0.0991	0.1000
Channel				133197	133297	133397	EIRP		
Frequency (MHz)				670.5	680.5	690.5	L	M	H
15	QPSK	1	0	23.79	23.61	23.69	0.1545	0.1483	0.1510
15	16QAM	1	0	22.98	23.00	22.98	0.1282	0.1288	0.1282
Channel				133172	133272	133422	EIRP		
Frequency (MHz)				668	678	693	L	M	H
10	QPSK	1	0	23.73	23.57	23.68	0.1524	0.1469	0.1507
10	16QAM	1	0	23.00	22.93	23.00	0.1288	0.1268	0.1288
Channel				133147	133247	133447	EIRP		
Frequency (MHz)				665.5	675.5	695.5	L	M	H
5	QPSK	1	0	23.71	23.70	23.69	0.1517	0.1514	0.1510
5	16QAM	1	0	22.96	23.00	22.95	0.1276	0.1288	0.1274



**CA power and EIRP**

**LTE Band 41\_CA:**

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	22.28	0.6081
M	QPSK	1	Max	1	0	22.40	0.6252
H	QPSK	1	Max	1	0	23.15	0.7430
L	16QAM	1	Max	1	0	20.99	0.4519
M	16QAM	1	Max	1	0	21.47	0.5047
H	16QAM	1	Max	1	0	21.72	0.5346
L	64QAM	1	Max	1	0	19.95	0.3556
M	64QAM	1	Max	1	0	20.45	0.3990
H	64QAM	1	Max	1	0	20.84	0.4365
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.01	0.7194
H	16QAM	1	Max	1	0	21.64	0.5248
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.90	0.7015
H	16QAM	1	Max	1	0	21.41	0.4977
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.77	0.6808
H	16QAM	1	Max	1	0	21.43	0.5000
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.86	0.6950
H	16QAM	1	Max	1	0	21.52	0.5105
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.36	0.6194
H	16QAM	1	Max	1	0	21.04	0.4571
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.32	0.6138
H	16QAM	1	Max	1	0	21.06	0.4592
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		



H	QPSK	1	Max	1	0	22.46	0.6339
H	16QAM	1	Max	1	0	21.13	0.4667
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.45	0.6324
H	16QAM	1	Max	1	0	21.16	0.4699
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	22.98	0.7145
H	16QAM	1	Max	1	0	21.72	0.5346



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

LTE Band 7 / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5052	-60.20	-25	-35.20	-70.41	3.03	13.24	H
	7580	-61.75	-25	-36.75	-71.20	3.56	13.01	H
	10100	-60.41	-25	-35.41	-69.93	3.92	13.44	H
	12630	-57.05	-25	-32.05	-66.97	4.44	14.36	H
	15160	-58.08	-25	-33.08	-68.45	4.77	15.14	H
	17680	-46.64	-25	-21.64	-56.77	5.25	15.38	H
	5052	-58.44	-25	-33.44	-68.65	3.03	13.24	V
	7580	-61.48	-25	-36.48	-70.93	3.56	13.01	V
	10100	-60.28	-25	-35.28	-69.80	3.92	13.44	V
	12630	-57.42	-25	-32.42	-67.34	4.44	14.36	V
	15160	-58.14	-25	-33.14	-68.51	4.77	15.14	V
	17680	-48.95	-25	-23.95	-59.08	5.25	15.38	V

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

LTE Band 12 / 10MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-65.84	-13	-52.84	-72.81	1.58	10.70	H
	2110	-61.08	-13	-48.08	-69.33	2.102	12.50	H
	2812	-58.46	-13	-45.46	-67.35	2.856	13.90	H
	3516	-58.04	-13	-45.04	-65.73	3.46	13.30	H
	1406	-66.26	-13	-53.26	-73.23	1.58	10.70	V
	2110	-60.12	-13	-47.12	-68.37	2.10	12.50	V
	2812	-57.94	-13	-44.94	-66.83	2.86	13.90	V
	3516	-58.51	-13	-45.51	-66.20	3.46	13.30	V

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



LTE Band 13 / 5MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-66.13	-42.15	-23.98	-68.76	1.09	5.87	H
	2340	-61.57	-13	-48.57	-63.97	1.37	5.92	H
	3120	-59.65	-13	-46.65	-63.54	1.64	7.68	H
	1560	-65.51	-42.15	-23.36	-68.14	1.09	5.87	V
	2340	-59.30	-13	-46.30	-61.70	1.37	5.92	V
	3120	-59.51	-13	-46.51	-63.40	1.64	7.68	V

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

LTE Band 13 / 10MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1556	-65.86	-13	-52.86	-68.49	1.09	5.87	H
	2332	-60.23	-13	-47.23	-62.63	1.37	5.92	H
	3108	-58.44	-13	-45.44	-62.33	1.64	7.68	H
	1556	-65.32	-13	-52.32	-67.95	1.09	5.87	V
	2332	-58.64	-13	-45.64	-61.04	1.37	5.92	V
	3108	-58.32	-13	-45.32	-62.21	1.64	7.68	V

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

LTE Band 41(HPUE) / 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168	-61.43	-25	-36.43	-71.64	3.03	13.24	H
	7752	-60.88	-25	-35.88	-70.33	3.56	13.01	H
	10340	-59.39	-25	-34.39	-68.91	3.92	13.44	H
	5168	-59.86	-25	-34.86	-70.07	3.03	13.24	V
	7752	-61.04	-25	-36.04	-70.49	3.56	13.01	V
	10340	-58.16	-25	-33.16	-67.68	3.92	13.44	V

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



LTE Band 71 / 20MHz / QPSK								
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1348	-67.32	-13	-54.32	-69.07	1.02	4.92	H
	2022	-60.95	-13	-47.95	-62.92	1.27	5.39	H
	2696	-58.16	-13	-45.16	-61.09	1.49	6.57	H
	3372	-58.35	-13	-45.35	-61.75	1.73	7.28	H
	1348	-67.19	-13	-54.19	-68.94	1.02	4.92	V
	2022	-60.16	-13	-47.16	-62.13	1.27	5.39	V
	2696	-57.59	-13	-44.59	-60.52	1.49	6.57	V
	3372	-58.64	-13	-45.64	-62.04	1.73	7.28	V

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

LTE Band 41_CA / 20+20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	5168	-62.01	-25	-37.01	-72.22	3.03	13.24	H
	7748	-60.30	-25	-35.30	-69.75	3.56	13.01	H
	10330	-58.15	-25	-33.15	-67.67	3.92	13.44	H
	5168	-60.00	-25	-35.00	-70.21	3.03	13.24	V
	7748	-60.29	-25	-35.29	-69.74	3.56	13.01	V
	10330	-58.60	-25	-33.60	-68.12	3.92	13.44	V

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