



# 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, 22(H), 24(E), 27(L)  
**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.

Reviewed by: Jason Jia / Supervisor

Approved by: James Huang / Manager



**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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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0D1611A	Rev. 01	Initial issue of report	Mar. 29, 2021



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	1
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2) (Band 25)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	1
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	1
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	1
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	1
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 25) (Band 26) (Band 66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 37.67 dB at 6996.000 MHz

**Remark:**

- The conducted test items of B26/B5/B25/B2/B66/B4 were leveraged from module RF report which can refer to Report No.FG090125B, and conducted test items of CA\_5B,66B,66C 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 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
<b>Rx Frequency</b>	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 25 : 1930 MHz ~ 1995 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 66 : 2110 MHz~ 2200 MHz
<b>Bandwidth</b>	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
<b>Antenna Gain</b>	LTE Band 2: 5.18 dBi LTE Band 4: 5.18 dBi LTE Band 5: 3.09 dBi LTE Band 25: 5.18 dBi LTE Band 26: 3.09 dBi LTE Band 66: 5.18 dBi
<b>Type of Modulation</b>	QPSK / 16QAM / 64QAM

### 1.5 Modification of EUT

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



### 1.6 Maximum ERP/EIRP Power

LTE Band 2		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	1860.0 ~ 1900.0	-	-	0.8260	-	-	0.6516
LTE Band 4		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	1720.0 ~ 1745.0	-	-	0.7998	-	-	0.6561
LTE Band 5		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	829.0 ~ 844.0	-	-	0.2985	-	-	0.2477
LTE Band 25		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	1860.0 ~ 1905.0	-	-	0.8260	-	-	0.6516
LTE Band 26		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)
15	831.5 ~ 841.5	-	-	0.2972	-	-	0.2466
CH26765	821.5	-	-	0.2992	-	-	0.2477
LTE Band 66		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	1720.0 ~ 1770.0	-	-	0.7998	-	-	0.6561



LTE Band 5B_CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
10MHz+10MHz	-	-	0.2944	-	-	0.2793
LTE Band 66C_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	-	-	0.7516	-	-	0.7261
LTE Band 66B_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)
10MHz+10MHz	-	-	0.7834	-	-	0.7551

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
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, 22(H), 24(E), 27(L)
- 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	2	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
	4	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
	5	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v	
	25	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
	26	v	v	v	v	v	-	v	v	v	-	v	v	v	v	v	v	
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
Radiated Spurious Emission	25	Worst Case															v	
	26	Worst Case															v	
	66	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> </ol>																	

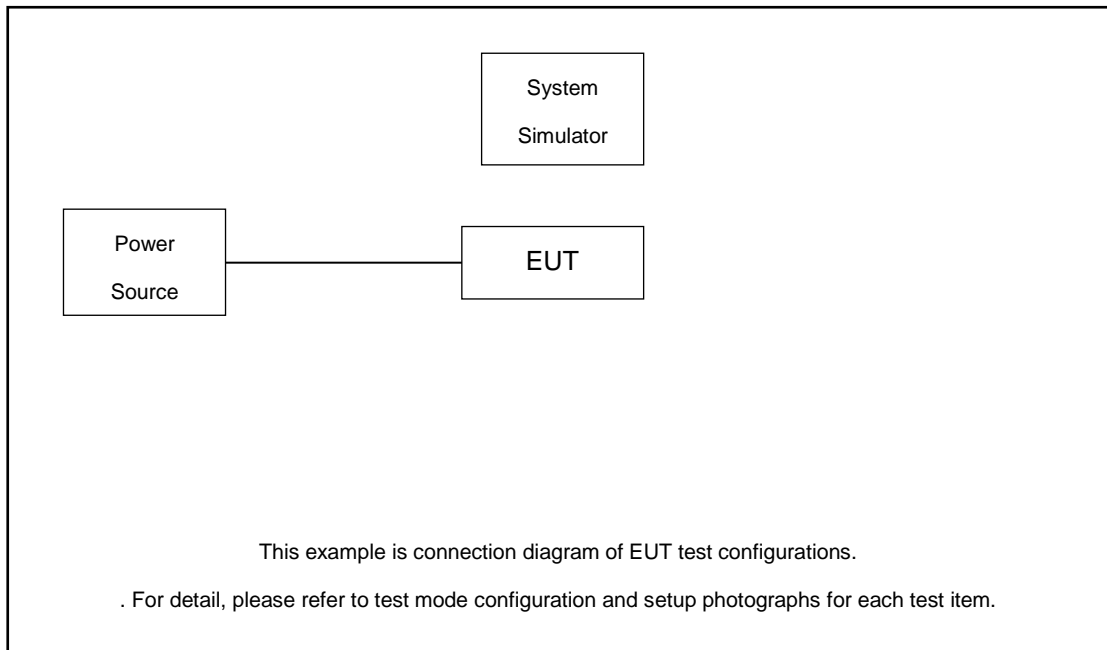


Test Items	Band	Bandwidth (MHz)			Modulation				RB #			Test Channel		
		5+10	10+5	10+10	QPSK	16QAM	64QAM	-	1	Half	Full	L	M	H
E.R.P.	5B_CA	v	v	v	v	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	5B_CA	Worst Case											v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The 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.													

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.	66C_CA	v	v	v	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
Radiated Spurious Emission	66C_CA	Worst Case																		v	
Note	4. The mark "v" means that this configuration is chosen for testing 5. The mark "-" means that this bandwidth is not supported. 6. 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.																				

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel			
		5+5	5+10	5+15	10+10	10+5	15+5	QPSK	16QAM	64QAM	-	1	Half	Full	L	M	H	
E.I.R.P.	66B_CA	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v	
Radiated Spurious Emission	66B_CA	Worst Case															v	
Note	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.																	

## 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.	POE Adapter	N/A	N/A	N/A	N/A	N/A
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m



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

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3



LTE Band 5B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 10	PCC	Channel	20428	20478	20528
		Frequency	826.8	831.8	836.8
	SCC	Channel	20500	20550	20600
		Frequency	834	839	844
10 + 5	PCC	Channel	20450	20500	20550
		Frequency	829	834	839
	SCC	Channel	20522	20572	20622
		Frequency	836.2	841.2	846.2
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844





LTE Band 66C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	132471	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	132171	132472	132572
		Frequency	1729.9	1760	1770
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720	1750.1	1760.1
	SCC	Channel	132216	132517	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	132497	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	132496	132572
		Frequency	1734.9	1762.4	1770
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720	1747.6	1755.1
	SCC	Channel	132243	132519	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720	1752.5	1765
	SCC	Channel	132189	132514	132639
		Frequency	1731.7	1764.2	1776.7
5 + 20	PCC	Channel	132005	132330	132455



	SCC	Frequency	1713.3	1745.8	1758.3
		Channel	132122	132447	132572
20 + 20	PCC	Frequency	1725	1757.5	1770
		Channel	132072	132323	132374
	SCC	Frequency	1720	1745.1	1750.2
		Channel	132270	132521	132572
	SCC	Frequency	1739.8	1764.9	1770
		Channel			

LTE Band 66B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	132446	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	132447	132622
		Frequency	1720	1757.5	1775
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715	1752.5	1770
	SCC	Channel	132094	132469	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713	1748.1	1763.2
	SCC	Channel	132095	132446	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	132491	132642
		Frequency	1726.8	1761.9	1777
10 + 10	PCC	Channel	132022	132373	132523
		Frequency	1715	1750.1	1765.1
	SCC	Channel	132121	132472	132622
		Frequency	1724.9	1760	1775



### 3 Conducted Test Items

#### 3.1 ERP/EIRP Power

##### 3.1.1 Description of the 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 mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

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.

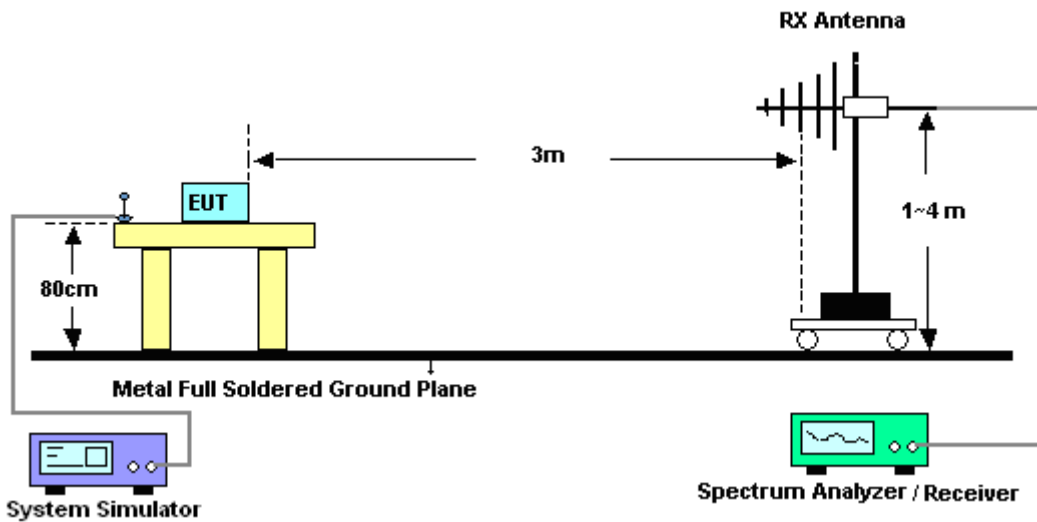
## 4 Radiated Test Items

### 4.1 Measuring Instruments

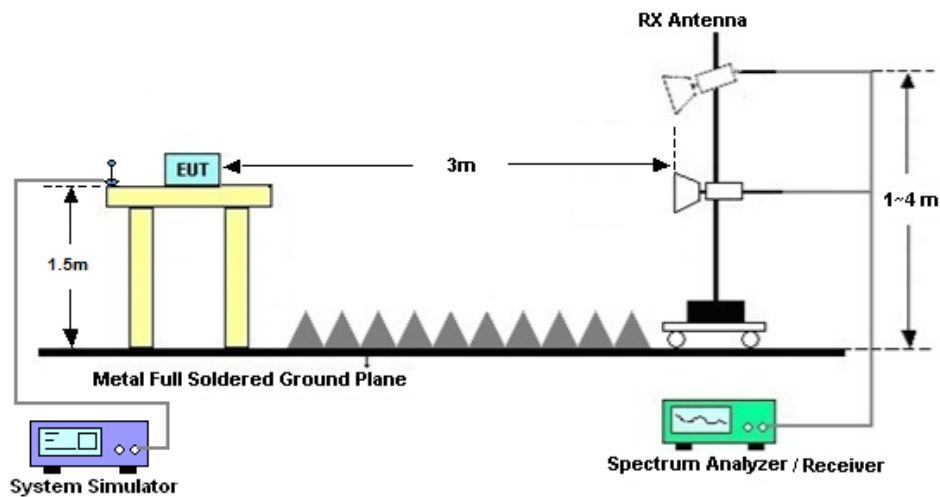
See list of measuring instruments of this test report.

### 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.

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.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
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)  
=  $P(W) - [43 + 10\log(P)] \text{ (dB)}$   
=  $[30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
= -13dBm.



## 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 25:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				26140	26340	26590	EIRP		
Frequency (MHz)				1860	1880	1905	L	M	H
20	QPSK	1	0	23.99	23.92	23.89	0.8260	0.8128	0.8072
20	QPSK	1	49	23.87	23.81	23.83	0.8035	0.7925	0.7962
20	QPSK	1	99	23.80	23.79	23.79	0.7907	0.7889	0.7889
20	QPSK	50	0	22.97	22.84	22.74	0.6531	0.6339	0.6194
20	QPSK	50	24	22.93	22.83	22.84	0.6471	0.6324	0.6339
20	QPSK	50	50	22.82	22.77	22.79	0.6310	0.6237	0.6266
20	QPSK	100	0	22.91	22.78	22.74	0.6442	0.6252	0.6194
20	16QAM	1	0	22.96	22.88	22.87	0.6516	0.6397	0.6383
20	64QAM	1	0	21.99	21.83	21.85	0.5212	0.5023	0.5047
Channel				26115	26340	26615	EIRP		
Frequency (MHz)				1857.5	1880	1907.5	L	M	H
15	QPSK	1	0	23.91	23.83	23.89	0.8110	0.7962	0.8072
15	16QAM	1	0	22.92	22.81	22.82	0.6457	0.6295	0.6310
Channel				26090	26340	26640	EIRP		
Frequency (MHz)				1855	1880	1910	L	M	H
10	QPSK	1	0	23.99	23.82	23.88	0.8260	0.7943	0.8054
10	16QAM	1	0	22.92	22.88	22.79	0.6457	0.6397	0.6266
Channel				26065	26340	26665	EIRP		
Frequency (MHz)				1852.5	1880	1912.5	L	M	H
5	QPSK	1	0	23.97	23.90	23.83	0.8222	0.8091	0.7962
5	16QAM	1	0	22.93	22.84	22.81	0.6471	0.6339	0.6295
Channel				26055	26340	26675	EIRP		
Frequency (MHz)				1851.5	1880	1913.5	L	M	H
3	QPSK	1	0	23.98	23.91	23.86	0.8241	0.8110	0.8017
3	16QAM	1	0	22.93	22.79	22.82	0.6471	0.6266	0.6310
Channel				26047	26340	26683	EIRP		
Frequency (MHz)				1850.7	1880	1914.3	L	M	H
1.4	QPSK	1	0	23.97	23.89	23.83	0.8222	0.8072	0.7962





LTE Band 26:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP			
								L	M	H	
Channel				26765	26865	26915	26965				
Frequency (MHz)				821.5	831.5	836.5	841.5	L	M	H	
15	QPSK	1	0	23.82	23.79	23.56	23.79	0.2992	0.2972	0.2818	0.2972
15	QPSK	1	37	23.58	23.55	23.48	23.42	0.2831	0.2812	0.2767	0.2729
15	QPSK	1	74	23.49	23.46	23.48	23.32	0.2773	0.2754	0.2767	0.2667
15	QPSK	36	0	22.74	22.71	22.62	22.62	0.2333	0.2317	0.2270	0.2270
15	QPSK	36	20	22.73	22.70	22.61	22.61	0.2328	0.2312	0.2265	0.2265
15	QPSK	36	39	22.66	22.63	22.57	22.47	0.2291	0.2275	0.2244	0.2193
15	QPSK	75	0	22.74	22.71	22.61	22.54	0.2333	0.2317	0.2265	0.2228
15	16QAM	1	0	23.00	22.97	22.98	22.87	0.2477	0.2460	0.2466	0.2404
15	64QAM	1	0	21.80	21.77	21.54	21.74	0.1879	0.1866	0.1770	0.1854
Channel					26840	26915	26990	ERP			
Frequency (MHz)					829	836.5	844	L	M	H	
10	QPSK	1	0		23.78	23.58	23.60	0.2965	0.2831	0.2844	
10	16QAM	1	0		22.97	22.95	22.90	0.2460	0.2449	0.2421	
Channel					26815	26915	27015	ERP			
Frequency (MHz)					826.5	836.5	846.5	L	M	H	
5	QPSK	1	0		23.78	23.58	23.51	0.2965	0.2831	0.2786	
5	16QAM	1	0		22.96	22.78	22.85	0.2455	0.2355	0.2393	
Channel					26815	26915	27025	ERP			
Frequency (MHz)					825.5	836.5	847.5	L	M	H	
3	QPSK	1	0		23.77	23.49	23.47	0.2958	0.2773	0.2761	
3	16QAM	1	0		22.92	22.94	22.79	0.2432	0.2443	0.2360	
Channel					26797	26915	27033	ERP			
Frequency (MHz)					824.7	836.5	848.3	L	M	H	
1.4	QPSK	1	0		23.73	23.53	23.33	0.2931	0.2799	0.2673	
1.4	16QAM	1	0		22.96	22.80	22.68	0.2455	0.2366	0.2301	



LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP		
Channel				20450	20525	20600	ERP		
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.81	23.58	23.61	0.2985	0.2831	0.2851
10	QPSK	1	25	23.59	23.47	23.57	0.2838	0.2761	0.2825
10	QPSK	1	49	23.52	23.45	23.47	0.2793	0.2748	0.2761
10	QPSK	25	0	22.85	22.71	22.71	0.2393	0.2317	0.2317
10	QPSK	25	12	22.78	22.70	22.70	0.2355	0.2312	0.2312
10	QPSK	25	25	22.66	22.62	22.69	0.2291	0.2270	0.2307
10	QPSK	50	0	22.73	22.72	22.67	0.2328	0.2323	0.2296
10	16QAM	1	0	23.00	22.99	22.92	0.2477	0.2472	0.2432
10	64QAM	1	0	21.95	21.84	21.84	0.1945	0.1897	0.1897
Channel				20425	20525	20625	ERP		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	23.79	23.65	23.66	0.2972	0.2877	0.2884
5	16QAM	1	0	22.98	22.88	22.91	0.2466	0.2410	0.2427
Channel				20415	20525	20635	ERP		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	23.80	23.62	23.65	0.2979	0.2858	0.2877
3	16QAM	1	0	23.00	22.85	22.96	0.2477	0.2393	0.2455
Channel				20407	20525	20643	ERP		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	23.74	23.51	23.52	0.2938	0.2786	0.2793
1.4	16QAM	1	0	22.96	22.79	22.87	0.2455	0.2360	0.2404



LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				132072	132322	132572	EIRP		
Frequency (MHz)				1720	1745	1770	L	M	H
20	QPSK	1	0	23.74	23.85	23.82	0.7798	0.7998	0.7943
20	QPSK	1	49	23.63	23.80	23.69	0.7603	0.7907	0.7709
20	QPSK	1	99	23.68	23.72	23.63	0.7691	0.7762	0.7603
20	QPSK	50	0	22.77	22.93	22.85	0.6237	0.6471	0.6353
20	QPSK	50	24	22.86	22.91	22.79	0.6368	0.6442	0.6266
20	QPSK	50	50	22.81	22.91	22.83	0.6295	0.6442	0.6324
20	QPSK	100	0	22.81	22.89	22.85	0.6295	0.6412	0.6353
20	16QAM	1	0	22.89	22.99	22.97	0.6412	0.6561	0.6531
20	64QAM	1	0	21.86	21.95	21.90	0.5058	0.5164	0.5105
Channel				132047	132322	132597	EIRP		
Frequency (MHz)				1717.5	1745	1772.5	L	M	H
15	QPSK	1	0	23.70	23.81	23.73	0.7727	0.7925	0.7780
15	16QAM	1	0	22.83	22.99	22.92	0.6324	0.6561	0.6457
Channel				132022	132322	132622	EIRP		
Frequency (MHz)				1715	1745	1775	L	M	H
10	QPSK	1	0	23.71	23.83	23.76	0.7745	0.7962	0.7834
10	16QAM	1	0	22.83	22.95	22.91	0.6324	0.6501	0.6442
Channel				131997	132322	132647	EIRP		
Frequency (MHz)				1712.5	1745	1777.5	L	M	H
5	QPSK	1	0	23.64	23.79	23.73	0.7621	0.7889	0.7780
5	16QAM	1	0	22.79	22.91	22.94	0.6266	0.6442	0.6486
Channel				131987	132322	132657	EIRP		
Frequency (MHz)				1711.5	1745	1778.5	L	M	H
3	QPSK	1	0	23.65	23.83	23.74	0.7638	0.7962	0.7798
3	16QAM	1	0	22.69	22.94	22.77	0.6124	0.6486	0.6237
Channel				131979	132322	132665	EIRP		
Frequency (MHz)				1710.7	1745	1779.3	L	M	H
1.4	QPSK	1	0	23.72	23.82	23.74	0.7762	0.7943	0.7798
1.4	16QAM	1	0	22.70	22.96	22.79	0.6138	0.6516	0.6266



**CA power and EIRP**

**LTE Band 5B\_CA:**

Combination 10MHz+10MHz (50RB+50RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP	EIRP
		RB Size	RB offset	RB Size	RB offset			
L	QPSK	1	Max	1	0	23.75	0.2944	0.4831
M	QPSK	1	Max	1	0	23.12	0.2547	0.4178
H	QPSK	1	Max	1	0	22.34	0.2128	0.3491
L	16QAM	1	Max	1	0	23.52	0.2793	0.4581
M	16QAM	1	Max	1	0	22.54	0.2228	0.3656
H	16QAM	1	Max	1	0	21.84	0.1897	0.3112
L	64QAM	1	Max	1	0	21.47	0.1742	0.2858
M	64QAM	1	Max	1	0	21.43	0.1726	0.2831
H	64QAM	1	Max	1	0	21.54	0.1770	0.2904
Combination 10MHz+5MHz (50RB+25RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP	EIRP
		RB Size	RB offset	RB Size	RB offset			
L	QPSK	1	Max	1	0	23.75	0.2944	0.4831
L	16QAM	1	Max	1	0	23.52	0.2793	0.4581
Combination 5MHz+10MHz (25RB+50RB)								
Channel	Modulation	PCC		SCC		Measured Power	ERP	EIRP
		RB Size	RB offset	RB Size	RB offset			
L	QPSK	1	Max	1	0	23.62	0.2858	0.4688
L	16QAM	1	Max	1	0	23.40	0.2716	0.4457



LTE Band 66C\_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	22.94	0.6486
M	QPSK	1	Max	1	0	22.75	0.6209
H	QPSK	1	Max	1	0	23.58	0.7516
L	16QAM	1	Max	1	0	22.56	0.5943
M	16QAM	1	Max	1	0	22.23	0.5508
H	16QAM	1	Max	1	0	23.43	0.7261
L	64QAM	1	Max	1	0	21.47	0.4624
M	64QAM	1	Max	1	0	20.69	0.3864
H	64QAM	1	Max	1	0	21.65	0.4819
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	23.25	0.6966
H	16QAM	1	Max	1	0	22.83	0.6324
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	23.58	0.7516
H	16QAM	1	Max	1	0	23.43	0.7261
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	23.13	0.6776
H	16QAM	1	Max	1	0	22.76	0.6223
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	23.33	0.7096
H	16QAM	1	Max	1	0	23.12	0.6761
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	23.31	0.7063
H	16QAM	1	Max	1	0	22.52	0.5888
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	23.41	0.7228
H	16QAM	1	Max	1	0	23.08	0.6699
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	23.48	0.7345
H	16QAM	1	Max	1	0	22.97	0.6531
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured	EIRP



		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.41	0.7228
H	16QAM	1	Max	1	0	22.88	0.6397
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	23.14	0.6792
H	16QAM	1	Max	1	0	22.77	0.6237



LTE Band 66B\_CA:

Combination 10MHz+10MHz (50RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.32	0.7079
M	QPSK	1	Max	1	0	23.33	0.7096
H	QPSK	1	Max	1	0	23.76	0.7834
L	16QAM	1	Max	1	0	22.79	0.6266
M	16QAM	1	Max	1	0	23.60	0.7551
H	16QAM	1	Max	1	0	22.85	0.6353
L	64QAM	1	Max	1	0	21.67	0.4842
M	64QAM	1	Max	1	0	21.80	0.4989
H	64QAM	1	Max	1	0	20.51	0.3707
Combination 15MHz+5MHz (75RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.71	0.7745
M	16QAM	1	Max	1	0	22.48	0.5834
Combination 5MHz+15MHz (25RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.45	0.7295
M	16QAM	1	Max	1	0	23.26	0.6982
Combination 10MHz+5MHz (50RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.33	0.7096
M	16QAM	1	Max	1	0	23.22	0.6918
Combination 5MHz+10MHz (25RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.75	0.7816
M	16QAM	1	Max	1	0	23.44	0.7278
Combination 5MHz+5MHz (25RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	23.75	0.7816
M	16QAM	1	Max	1	0	23.60	0.7551



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

LTE Band 25 / 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	3741	-55.05	-13	-42.05	-67.31	2.64	14.90	H
	5613	-55.04	-13	-42.04	-66.90	2.94	14.80	H
	7488	-52.31	-13	-39.31	-62.08	3.39	13.16	H
	3741	-53.87	-13	-40.87	-66.13	2.64	14.90	V
	5613	-55.87	-13	-42.87	-67.73	2.94	14.80	V
	7488	-52.19	-13	-39.19	-61.96	3.39	13.16	V

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

LTE Band 26 / 15MHz / 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	1650	-64.92	-13	-51.92	-71.89	1.58	10.70	H
	2474	-59.65	-13	-46.65	-67.90	2.10	12.50	H
	3300	-58.71	-13	-45.71	-67.60	2.86	13.90	H
	1650	-64.19	-13	-51.19	-71.16	1.58	10.70	V
	2474	-57.89	-13	-44.89	-66.14	2.10	12.50	V
	3300	-58.64	-13	-45.64	-67.53	2.86	13.90	V

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

LTE Band 66 / 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	3471	-57.24	-13	-44.24	-67.98	2.604	13.34	H
	5208	-55.44	-13	-42.44	-65.95	3.011	13.52	H
	6948	-53.92	-13	-40.92	-64.12	3.271	13.47	H
	3471	-55.41	-13	-42.41	-66.15	2.604	13.34	V
	5208	-55.84	-13	-42.84	-66.35	3.011	13.52	V
	6948	-53.86	-13	-40.86	-64.06	3.271	13.47	V

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





LTE Band 5B_CA / 10MHz+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	1664.00	-62.89	-13	-49.89	-66.13	1.11	6.50	H
	2494.00	-56.90	-13	-43.90	-59.52	1.43	6.20	H
	3324.00	-56.51	-13	-43.51	-60.95	1.71	8.30	H
	1664.00	-61.77	-13	-48.77	-65.01	1.11	6.50	V
	2494.00	-55.55	-13	-42.55	-58.17	1.43	6.20	V
	3324.00	-55.93	-13	-42.93	-60.37	1.71	8.30	V

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

LTE Band 66B_CA / 10MHz+10MHz / 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	3501	-55.80	-13	-42.80	-66.54	2.604	13.34	H
	5250	-51.92	-13	-38.92	-62.43	3.011	13.52	H
	6996	-50.93	-13	-37.93	-61.13	3.271	13.47	H
	3501	-56.30	-13	-43.30	-67.04	2.604	13.34	V
	5250	-52.08	-13	-39.08	-62.59	3.011	13.52	V
	6996	-50.67	-13	-37.67	-60.87	3.271	13.47	V

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

LTE Band 66C_CA / 20MHz+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	3489	-56.14	-13	-43.14	-66.88	2.604	13.34	H
	5235	-52.00	-13	-39.00	-62.51	3.011	13.52	H
	6984	-51.00	-13	-38.00	-61.20	3.271	13.47	H
	3489	-56.45	-13	-43.45	-67.19	2.604	13.34	V
	5235	-51.66	-13	-38.66	-62.17	3.011	13.52	V
	6984	-50.94	-13	-37.94	-61.14	3.271	13.47	V

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