



# FCC RF Test Report

**APPLICANT** : Wistron Corporation  
**EQUIPMENT** : Notebook Computer  
**BRAND NAME** : Lenovo  
**MODEL NAME** : TP00076D  
**FCC ID** : PU5-TP00076DUC  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

Equipment: Fibocom L850-GL and Intel 8265NGW tested inside of Lenovo Notebook Computer.

This is a partial report. The product was received on Dec. 13, 2017 and completely tested on Jan. 16, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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## TABLE OF CONTENTS

<b>REVISION HISTORY</b> .....	<b>3</b>
<b>SUMMARY OF TEST RESULT</b> .....	<b>4</b>
<b>1 GENERAL DESCRIPTION</b> .....	<b>5</b>
1.1 Applicant .....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT .....	6
1.6 Testing Location .....	7
1.7 Applicable Standards.....	7
<b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST</b> .....	<b>8</b>
2.1 Test Mode.....	8
2.2 Connection Diagram of Test System.....	10
2.3 Support Unit used in test configuration and system .....	10
2.4 Frequency List of Low/Middle/High Channels .....	11
<b>3 CONDUCTED TEST ITEMS</b> .....	<b>15</b>
3.1 Measuring Instruments .....	15
3.2 Test Setup .....	15
3.3 Test Result of Conducted Test .....	15
3.4 Conducted Output Power and ERP/EIRP .....	16
<b>4 RADIATED TEST ITEMS</b> .....	<b>17</b>
4.1 Measuring Instruments .....	17
4.2 Test Setup .....	17
4.3 Test Result of Radiated Test .....	17
4.4 Radiated Spurious Emission .....	18
<b>5 LIST OF MEASURING EQUIPMENT</b> .....	<b>19</b>
<b>6 UNCERTAINTY OF EVALUATION</b> .....	<b>20</b>
<b>APPENDIX A. TEST RESULTS OF CONDUCTED TEST</b>	
<b>APPENDIX B. TEST RESULTS OF ERP/EIRP AND RADIATED TEST</b>	
<b>APPENDIX C. TEST SETUP PHOTOGRAPHS</b>	





**SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt		
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 7)(Band 41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 26) (Band 66)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 4.17 dB at 15161.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)(Band 41)	< 55+10log <sub>10</sub> (P[Watts])		



# 1 General Description

## 1.1 Applicant

**Wistron Corporation**

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

## 1.2 Manufacturer

**Wistron Corporation**

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Notebook Computer
Brand Name	Lenovo
Model Name	TP00076D
FCC ID	PU5-TP00076DUC
Sample 1	EUT with Silver Case
Sample 2	EUT with Black Case
Integrated WWAN Module	Brand Name: Fibocom Model Name: L850-GL
Integrated WLAN Module	Brand Name: Intel Model Name: 8265NGW
EUT supports Radios application	WCDMA/HSPA/LTE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. Equipment: Fibocom L850-GL and Intel 8265NGW tested inside of Lenovo Notebook Computer.

WWAN Antenna Information			3G & LTE	
Antenna 1	Manufacturer	Jiengtai	Peak gain	2.2
	Part Number	025.90167.0001	Type	PIFA



### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1754.3 MHz
<b>Rx Frequency</b>	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz ~ 2154.3 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 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 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
<b>Maximum Output Power to Antenna</b>	LTE Band 2 : 23.90 dBm LTE Band 4 : 23.65 dBm LTE Band 5 : 23.92 dBm LTE Band 7 : 22.72 dBm LTE Band 12 : 23.47 dBm LTE Band 13 : 23.53 dBm LTE Band 17 : 23.48 dBm LTE Band 26 : 23.54 dBm LTE Band 41 : 23.16 dBm LTE Band 66 : 23.88 dBm
<b>Type of Modulation</b>	QPSK / 16QAM

### 1.5 Modification of EUT

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



## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH05-HY

<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.)
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	03CH13-HY

## 1.7 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
- ♦ ANSI / TIA / EIA-603-D-2010
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 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 v02r02 with maximum output power.

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

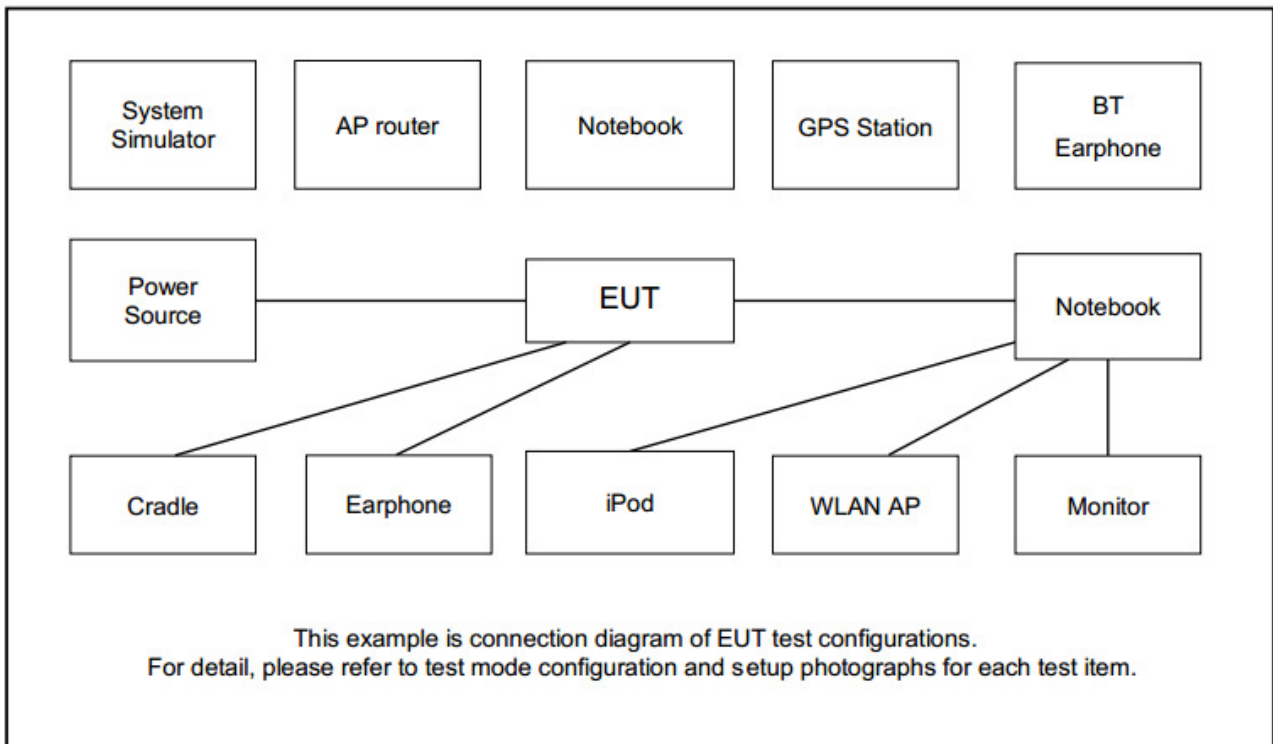
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H	
Max. Output Power	2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	5	Y	Y	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	
	7	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	12	Y	Y	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	
	13	-	-	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	
	17	-	-	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	
	26	Y	Y	Y	Y	Y	-	Y	Y	Y	Y	Y	Y	Y	Y	
	41	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	66	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
E.R.P./ E.I.R.P.	2	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
	4	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
	5	Y	Y	Y	Y	-	-	Y	Y	Y			Y	Y	Y	
	7	-	-	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
	12	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
	13	-	-	Y	Y	-	-	Y	Y	Y			Y	Y	Y	
	17	-	-	Y	Y	-	-	Y	Y	Y			Y	Y	Y	
	26	Y	Y	Y	Y	Y	-	Y	Y	Y	Y			Y	Y	Y
	41	-	-	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
	66	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	





Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Radiated Spurious Emission	2	Worst case											v	v	v
	4	Worst case											v	v	v
	5	Worst case											v	v	v
	7	Worst case											v	v	v
	12	Worst case											v	v	v
	13	Worst case											v	v	v
	17	Worst case											v	v	v
	26	Worst case											v	v	v
	41	Worst case											v	v	v
66	Worst case											v	v	v	
Note	<ol style="list-style-type: none"> <li>1. The mark “v” means that this configuration is chosen for testing</li> <li>2. The mark “-” means that this bandwidth is not supported.</li> <li>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.</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.	System Simulator	Anritsu	MT8820C	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 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 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 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 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

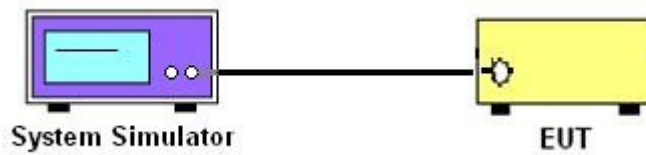
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.4 Conducted Output Power and ERP/EIRP

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

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.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7 and Band 41.

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

#### 3.4.2 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.



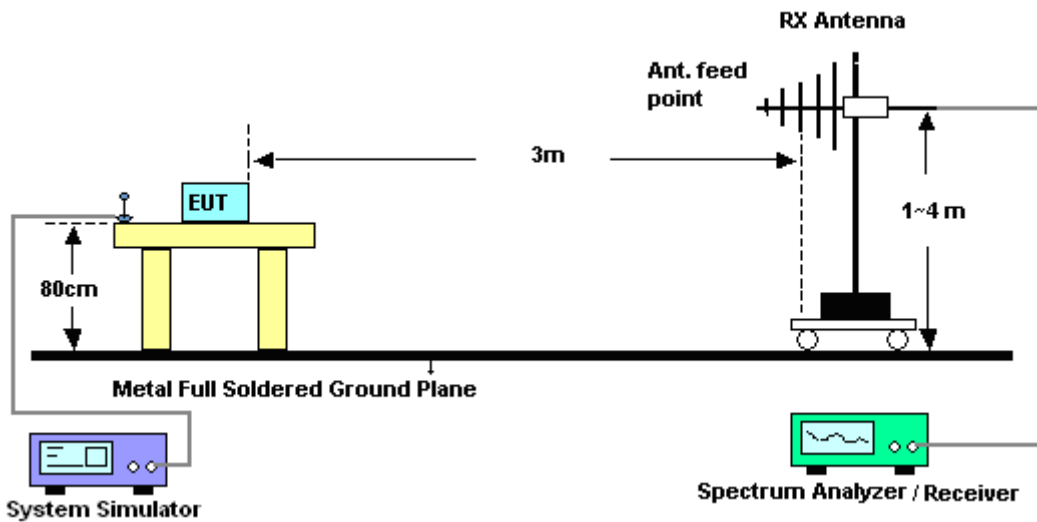
## 4 Radiated Test Items

### 4.1 Measuring Instruments

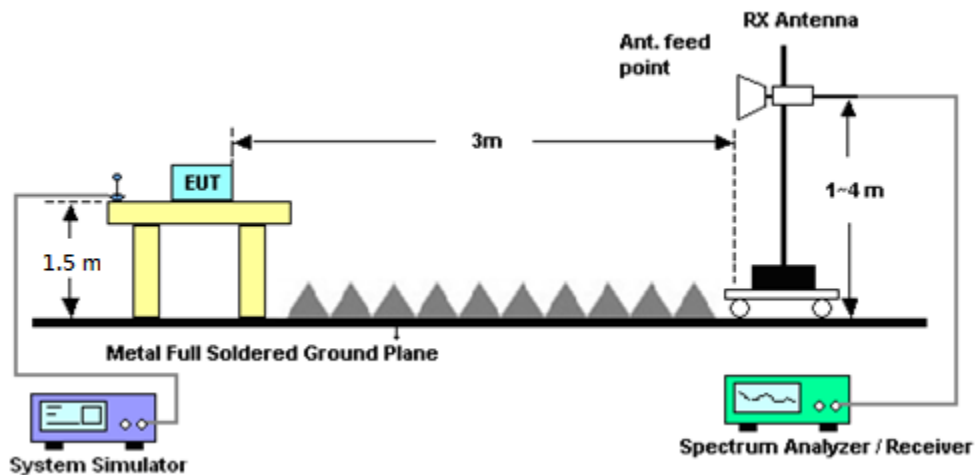
See list of measuring instruments of this test report.

### 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 / TIA / EIA-603-D-2010. 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 Band 7, 41

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  $55 + 10 \log (P)$  dB.

For LTE Band 12,13,17

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 FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
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.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. 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)
12. For Band 7, 41:  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain  
ERP (dBm) = EIRP - 2.15



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 13, 2017	Dec. 29, 2017	Oct. 12, 2018	Conducted (TH05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz,V SWR : 2.5:1 max	Jul. 18, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Jul. 17, 2018	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Oct. 13, 2018	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Jan. 12, 2018 ~ Jan. 16, 2018	Dec. 20, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Jun. 15, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Jun. 14, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May. 22, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	May. 21, 2018	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 15, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Mar. 14, 2018	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 12, 2018 ~ Jan. 16, 2018	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 12, 2018 ~ Jan. 16, 2018	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 12, 2018 ~ Jan. 16, 2018	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Nov. 10, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Nov. 09, 2018	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Nov. 26, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 17, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Mar. 16, 2018	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May. 22, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	May. 21, 2018	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz ~ 26.5GHz	Dec. 05, 2017	Jan. 12, 2018 ~ Jan. 16, 2018	Dec. 04, 2018	Radiation (03CH13-HY)



## 6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.48
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.92
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	<b>23.90</b>	23.59	23.36
20	1	49		23.57	23.69	22.99
20	1	99		23.47	23.36	23.10
20	50	0		22.65	22.67	22.17
20	50	24		22.50	22.66	22.05
20	50	50		22.36	22.50	22.10
20	100	0		22.64	22.70	22.32
20	1	0	16-QAM	22.87	22.84	22.63
20	1	49		22.82	22.96	22.23
20	1	99		22.69	22.68	22.36
20	50	0		21.72	21.69	21.22
20	50	24		21.59	21.69	21.08
20	50	50		21.42	21.53	21.13
20	100	0		21.68	21.73	21.35
15	1	0	QPSK	23.75	23.57	23.12
15	1	37		23.53	23.58	23.00
15	1	74		23.26	23.41	23.05
15	36	0		22.60	22.61	21.90
15	36	20		22.52	22.56	21.98
15	36	39		22.39	22.47	22.02
15	75	0		22.53	22.55	22.11
15	1	0	16-QAM	22.85	22.77	22.29
15	1	37		22.83	22.80	22.16
15	1	74		22.53	22.64	22.23
15	36	0		21.65	21.68	20.95
15	36	20		21.58	21.65	21.05
15	36	39		21.45	21.57	21.11
15	75	0		21.56	21.61	21.14



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.75	23.68	22.94
10	1	25		23.54	23.62	22.99
10	1	49		23.42	23.57	23.04
10	25	0		22.66	22.69	22.00
10	25	12		22.56	22.67	22.02
10	25	25		22.50	22.60	22.08
10	50	0		22.52	22.56	22.06
10	1	0	16-QAM	22.84	22.88	22.16
10	1	25		22.86	22.81	22.20
10	1	49		22.71	22.80	22.28
10	25	0		21.75	21.72	21.03
10	25	12		21.67	21.68	21.05
10	25	25		21.61	21.60	21.11
10	50	0		21.62	21.60	21.10
5	1	0	QPSK	23.71	23.64	22.99
5	1	12		23.62	23.52	23.01
5	1	24		23.55	23.55	23.00
5	12	0		23.70	23.59	23.01
5	12	7		23.62	23.54	23.02
5	12	13		23.55	23.57	23.03
5	25	0		22.64	22.53	22.02
5	1	0	16-QAM	22.98	22.89	22.24
5	1	12		22.87	22.79	22.25
5	1	24		22.83	22.81	22.27
5	12	0		22.74	22.61	22.03
5	12	7		22.67	22.56	22.05
5	12	13		22.59	22.58	22.05
5	25	0		21.66	21.52	21.04



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.30	23.18	22.66
3	1	8		23.28	23.19	22.71
3	1	14		23.23	23.17	22.65
3	8	0		22.33	22.21	21.68
3	8	4		22.26	22.14	21.66
3	8	7		22.26	22.15	21.63
3	15	0		22.25	22.13	21.63
3	1	0	16-QAM	22.57	22.46	21.84
3	1	8		22.58	22.48	21.89
3	1	14		22.51	22.45	21.83
3	8	0		21.40	21.31	20.70
3	8	4		21.33	21.25	20.68
3	8	7		21.33	21.26	20.70
3	15	0		21.26	21.24	20.69
1.4	1	0	QPSK	23.35	23.28	22.73
1.4	1	3		23.29	23.20	22.64
1.4	1	5		23.32	23.24	22.66
1.4	3	0		23.30	23.25	22.66
1.4	3	1		23.29	23.25	22.65
1.4	3	3		23.31	23.21	22.65
1.4	6	0		22.28	22.18	21.68
1.4	1	0	16-QAM	22.57	22.54	21.93
1.4	1	3		22.58	22.44	21.89
1.4	1	5		22.64	22.47	21.89
1.4	3	0		22.40	22.31	21.76
1.4	3	1		22.39	22.32	21.75
1.4	3	3		22.40	22.31	21.76
1.4	6	0		21.45	21.28	20.73



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.12	23.65	23.15
20	1	49		23.30	23.11	23.28
20	1	99		23.14	23.01	23.64
20	50	0		22.26	22.24	22.05
20	50	24		22.29	22.09	22.33
20	50	50		22.19	21.98	22.64
20	100	0		22.33	22.18	22.57
20	1	0	16-QAM	22.34	22.58	22.36
20	1	49		22.49	22.35	22.48
20	1	99		22.36	22.24	22.84
20	50	0		21.29	21.28	21.14
20	50	24		21.31	21.16	21.36
20	50	50		21.22	21.04	21.65
20	100	0		21.33	21.21	21.56
15	1	0	QPSK	23.04	23.27	23.04
15	1	37		23.26	23.11	23.59
15	1	74		23.14	22.86	23.60
15	36	0		22.19	22.14	22.21
15	36	20		22.30	22.04	22.54
15	36	39		22.21	21.95	22.63
15	75	0		22.31	22.04	22.59
15	1	0	16-QAM	22.29	22.43	22.23
15	1	37		22.50	22.27	22.74
15	1	74		22.41	22.05	22.80
15	36	0		21.24	21.21	21.25
15	36	20		21.34	21.16	21.64
15	36	39		21.26	21.06	21.71
15	75	0		21.33	21.12	21.70





LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.07	23.24	23.38
10	1	25		23.22	23.09	23.55
10	1	49		23.24	22.98	23.63
10	25	0		22.14	22.16	22.59
10	25	12		22.24	22.08	22.63
10	25	25		22.31	22.00	22.65
10	50	0		22.22	22.03	22.62
10	1	0	16-QAM	22.32	22.44	22.59
10	1	25		22.48	22.31	22.87
10	1	49		22.53	22.21	22.88
10	25	0		21.22	21.27	21.62
10	25	12		21.25	21.19	21.72
10	25	25		21.32	21.09	21.76
10	50	0		21.22	21.15	21.70
5	1	0	QPSK	22.97	23.17	23.63
5	1	12		23.02	23.07	23.62
5	1	24		23.13	22.94	23.54
5	12	0		22.98	23.07	23.50
5	12	7		23.06	23.02	23.47
5	12	13		23.08	22.99	23.55
5	25	0		22.06	22.05	22.67
5	1	0	16-QAM	22.18	22.37	22.90
5	1	12		22.27	22.25	22.86
5	1	24		22.35	22.20	22.92
5	12	0		22.08	22.13	22.71
5	12	7		22.14	22.07	22.68
5	12	13		22.17	22.04	22.66
5	25	0		21.11	21.07	21.67



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.64	22.82	23.30
3	1	8		22.67	22.76	23.31
3	1	14		22.72	22.67	23.31
3	8	0		21.66	21.79	22.35
3	8	4		21.65	21.76	22.29
3	8	7		21.71	21.74	22.32
3	15	0		21.66	21.78	22.29
3	1	0	16-QAM	21.86	22.00	22.51
3	1	8		21.87	21.98	22.52
3	1	14		21.91	21.90	22.52
3	8	0		20.76	20.87	21.40
3	8	4		20.75	20.84	21.35
3	8	7		20.83	20.88	21.37
3	15	0		20.73	20.88	21.32
1.4	1	0	QPSK	22.68	22.77	23.32
1.4	1	3		22.64	22.72	23.32
1.4	1	5		22.68	22.74	23.37
1.4	3	0		22.68	22.76	23.36
1.4	3	1		22.67	22.74	23.31
1.4	3	3		22.68	22.75	23.32
1.4	6	0		21.68	21.76	22.33
1.4	1	0	16-QAM	21.93	22.06	22.55
1.4	1	3		21.88	22.01	22.53
1.4	1	5		21.90	22.02	22.57
1.4	3	0		21.71	21.84	22.36
1.4	3	1		21.70	21.83	22.34
1.4	3	3		21.70	21.82	22.38
1.4	6	0		20.70	20.82	21.36



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.90	23.92	23.83
10	1	25		23.84	23.87	23.63
10	1	49		23.87	23.71	23.80
10	25	0		22.94	22.90	22.84
10	25	12		22.92	22.92	22.73
10	25	25		22.90	22.86	22.83
10	50	0		22.96	22.98	22.85
10	1	0	16-QAM	23.28	23.28	23.20
10	1	25		23.21	23.26	22.96
10	1	49		23.26	23.07	23.15
10	25	0		22.05	22.00	21.81
10	25	12		22.02	22.03	21.74
10	25	25		22.01	21.90	21.87
10	50	0		22.10	22.03	21.93
5	1	0	QPSK	23.88	23.82	23.60
5	1	12		23.83	23.85	23.65
5	1	24		23.86	23.78	23.77
5	12	0		22.95	22.83	22.73
5	12	7		22.89	22.86	22.68
5	12	13		22.85	22.84	22.77
5	25	0		22.90	22.90	22.71
5	1	0	16-QAM	23.25	23.19	22.90
5	1	12		23.16	23.21	22.96
5	1	24		23.22	23.16	23.12
5	12	0		22.04	21.96	21.78
5	12	7		21.97	21.97	21.73
5	12	13		21.93	21.91	21.83
5	25	0		21.96	21.95	21.79



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.79	23.75	23.59
3	1	8		23.79	23.77	23.72
3	1	14		23.70	23.68	23.69
3	8	0		22.80	22.74	22.59
3	8	4		22.85	22.74	22.68
3	8	7		22.83	22.70	22.70
3	15	0		22.85	22.75	22.63
3	1	0	16-QAM	23.17	23.06	22.89
3	1	8		23.14	23.10	23.04
3	1	14		23.04	23.03	23.03
3	8	0		21.92	21.86	21.75
3	8	4		21.90	21.86	21.80
3	8	7		21.89	21.83	21.82
3	15	0		21.89	21.83	21.81
1.4	1	0	QPSK	23.82	23.74	23.69
1.4	1	3		23.80	23.73	23.67
1.4	1	5		23.87	23.76	23.70
1.4	3	0		23.80	23.72	23.68
1.4	3	1		23.78	23.72	23.67
1.4	3	3		23.76	23.74	23.69
1.4	6	0		22.81	22.76	22.71
1.4	1	0	16-QAM	23.28	23.08	23.10
1.4	1	3		23.20	23.07	23.10
1.4	1	5		23.26	23.11	23.14
1.4	3	0		22.89	22.86	22.78
1.4	3	1		22.87	22.84	22.79
1.4	3	3		22.85	22.86	22.81
1.4	6	0		21.93	21.86	21.81



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.53	22.72	22.58
20	1	49		22.66	22.63	22.63
20	1	99		22.63	22.67	22.70
20	50	0		21.65	21.72	21.70
20	50	24		21.72	21.72	21.75
20	50	50		21.76	21.74	21.82
20	100	0		21.83	21.83	21.85
20	1	0	16-QAM	21.64	21.83	21.82
20	1	49		21.84	21.84	21.87
20	1	99		21.93	21.86	21.95
20	50	0		20.71	20.74	20.74
20	50	24		20.77	20.74	20.78
20	50	50		20.80	20.74	20.84
20	100	0		20.86	20.84	20.89
15	1	0	QPSK	22.52	22.60	22.57
15	1	37		22.65	22.63	22.67
15	1	74		22.66	22.63	22.65
15	36	0		21.66	21.71	21.72
15	36	20		21.74	21.73	21.77
15	36	39		21.75	21.72	21.79
15	75	0		21.76	21.74	21.74
15	1	0	16-QAM	21.67	21.81	21.74
15	1	37		21.84	21.84	21.80
15	1	74		21.89	21.81	21.82
15	36	0		20.73	20.77	20.74
15	36	20		20.80	20.77	20.84
15	36	39		20.80	20.76	20.86
15	75	0		20.79	20.78	20.81



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.53	22.63	22.63
10	1	25		22.57	22.62	22.66
10	1	49		22.66	22.64	22.60
10	25	0		21.72	21.74	21.73
10	25	12		21.72	21.74	21.76
10	25	25		21.80	21.75	21.77
10	50	0		21.67	21.73	21.74
10	1	0	16-QAM	21.69	21.88	21.82
10	1	25		21.76	21.88	21.85
10	1	49		21.83	21.89	21.85
10	25	0		20.73	20.79	20.77
10	25	12		20.73	20.78	20.79
10	25	25		20.80	20.78	20.81
10	50	0		20.70	20.76	20.77
5	1	0	QPSK	22.52	22.59	22.64
5	1	12		22.55	22.58	22.64
5	1	24		22.57	22.62	22.64
5	12	0		21.58	21.65	21.73
5	12	7		21.64	21.65	21.73
5	12	13		21.66	21.66	21.70
5	25	0		21.67	21.66	21.76
5	1	0	16-QAM	21.76	21.82	21.92
5	1	12		21.80	21.81	21.91
5	1	24		21.83	21.82	21.87
5	12	0		20.58	20.67	20.76
5	12	7		20.64	20.66	20.77
5	12	13		20.67	20.66	20.72
5	25	0		20.66	20.65	20.76



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.18	23.47	23.40
10	1	25		23.41	23.40	23.35
10	1	49		23.35	23.35	23.46
10	25	0		22.41	22.53	22.39
10	25	12		22.52	22.48	22.40
10	25	25		22.45	22.43	22.51
10	50	0		22.52	22.55	22.51
10	1	0	16-QAM	22.58	22.79	22.83
10	1	25		22.84	22.78	22.78
10	1	49		22.75	22.76	22.91
10	25	0		21.51	21.51	21.51
10	25	12		21.60	21.54	21.51
10	25	25		21.60	21.45	21.59
10	50	0		21.56	21.57	21.64
5	1	0	QPSK	23.21	23.36	23.35
5	1	12		23.37	23.37	23.39
5	1	24		23.39	23.33	23.41
5	12	0		22.25	22.40	22.36
5	12	7		22.35	22.42	22.37
5	12	13		22.37	22.37	22.47
5	25	0		22.40	22.43	22.43
5	1	0	16-QAM	22.56	22.74	22.67
5	1	12		22.72	22.72	22.73
5	1	24		22.87	22.68	22.86
5	12	0		21.33	21.50	21.43
5	12	7		21.41	21.52	21.42
5	12	13		21.43	21.49	21.52
5	25	0		21.39	21.55	21.41



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.19	23.27	23.25
3	1	8		23.24	23.32	23.34
3	1	14		23.28	23.22	23.35
3	8	0		22.19	22.34	22.27
3	8	4		22.18	22.34	22.33
3	8	7		22.26	22.30	22.35
3	15	0		22.20	22.35	22.28
3	1	0	16-QAM	22.55	22.65	22.62
3	1	8		22.60	22.71	22.71
3	1	14		22.69	22.59	22.71
3	8	0		21.30	21.46	21.35
3	8	4		21.30	21.45	21.41
3	8	7		21.40	21.38	21.44
3	15	0		21.27	21.45	21.42
1.4	1	0	QPSK	23.18	23.34	23.36
1.4	1	3		23.15	23.32	23.32
1.4	1	5		23.18	23.34	23.40
1.4	3	0		23.15	23.29	23.33
1.4	3	1		23.14	23.29	23.32
1.4	3	3		23.15	23.31	23.38
1.4	6	0		22.19	22.38	22.37
1.4	1	0	16-QAM	22.49	22.71	22.71
1.4	1	3		22.48	22.70	22.67
1.4	1	5		22.49	22.72	22.73
1.4	3	0		22.27	22.45	22.44
1.4	3	1		22.26	22.44	22.44
1.4	3	3		22.28	22.45	22.50
1.4	6	0		21.30	21.48	21.45





LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		23.53	
10	1	25			23.43	
10	1	49			23.48	
10	25	0			22.51	
10	25	12			22.37	
10	25	25			22.47	
10	50	0			22.50	
10	1	0	16-QAM		22.76	
10	1	25			22.90	
10	1	49			22.84	
10	25	0			21.59	
10	25	12			21.46	
10	25	25			21.59	
10	50	0			21.60	
5	1	0	QPSK	23.34	23.52	23.41
5	1	12		23.48	23.45	23.39
5	1	24		23.46	23.48	23.42
5	12	0		22.45	22.39	22.42
5	12	7		22.53	22.36	22.37
5	12	13		22.43	22.46	22.44
5	25	0		22.57	22.39	22.42
5	1	0	16-QAM	22.67	22.95	22.85
5	1	12		22.92	22.82	22.83
5	1	24		22.88	22.87	22.81
5	12	0		21.48	21.41	21.48
5	12	7		21.57	21.33	21.42
5	12	13		21.47	21.45	21.51
5	25	0		21.54	21.32	21.45



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.41	23.48	23.41
10	1	25		23.35	23.36	23.37
10	1	49		23.34	23.41	23.38
10	25	0		22.50	22.51	22.42
10	25	12		22.44	22.41	22.44
10	25	25		22.49	22.50	22.41
10	50	0		22.46	22.51	22.42
10	1	0	16-QAM	22.83	22.83	22.79
10	1	25		22.75	22.76	22.74
10	1	49		22.87	22.95	22.89
10	25	0		21.57	21.59	21.47
10	25	12		21.50	21.48	21.46
10	25	25		21.55	21.56	21.55
10	50	0		21.55	21.58	21.62
5	1	0	QPSK	23.45	23.36	23.31
5	1	12		23.42	23.31	23.34
5	1	24		23.38	23.38	23.45
5	12	0		22.44	22.32	22.32
5	12	7		22.48	22.34	22.32
5	12	13		22.49	22.35	22.40
5	25	0		22.42	22.39	22.36
5	1	0	16-QAM	22.78	22.74	22.69
5	1	12		22.77	22.67	22.72
5	1	24		22.72	22.75	22.83
5	12	0		21.45	21.40	21.39
5	12	7		21.48	21.42	21.38
5	12	13		21.50	21.45	21.46
5	25	0		21.49	21.40	21.37



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.49	23.54	23.39
15	1	37		23.36	23.39	23.26
15	1	74		23.30	23.32	23.33
15	36	0		22.56	22.57	22.42
15	36	20		22.48	22.42	22.31
15	36	39		22.48	22.35	22.40
15	75	0		22.67	22.68	22.40
15	1	0	16-QAM	22.68	22.85	22.77
15	1	37		22.89	22.78	22.62
15	1	74		22.68	22.78	22.70
15	36	0		21.67	21.54	21.50
15	36	20		21.68	21.57	21.39
15	36	39		21.58	21.49	21.48
15	75	0		21.77	21.70	21.46
10	1	0	QPSK	23.37	23.40	23.37
10	1	25		23.45	23.37	23.21
10	1	49		23.52	23.35	23.34
10	25	0		22.58	22.46	22.32
10	25	12		22.63	22.42	22.27
10	25	25		22.65	22.42	22.35
10	50	0		22.68	22.46	22.39
10	1	0	16-QAM	22.71	22.66	22.73
10	1	25		22.90	22.71	22.50
10	1	49		22.85	22.74	22.67
10	25	0		21.65	21.57	21.38
10	25	12		21.70	21.54	21.30
10	25	25		21.70	21.57	21.39
10	50	0		21.75	21.55	21.44



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.29	23.31	23.15
5	1	12		23.38	23.29	23.13
5	1	24		23.47	23.33	23.24
5	12	0		22.34	22.30	22.20
5	12	7		22.40	22.29	22.16
5	12	13		22.43	22.30	22.24
5	25	0		22.40	22.31	22.22
5	1	0	16-QAM	22.66	22.65	22.44
5	1	12		22.73	22.62	22.44
5	1	24		22.81	22.68	22.59
5	12	0		21.40	21.39	21.29
5	12	7		21.46	21.41	21.21
5	12	13		21.51	21.41	21.28
5	25	0		21.45	21.41	21.28
3	1	0	QPSK	23.27	23.27	23.09
3	1	8		23.36	23.30	23.20
3	1	14		23.34	23.28	23.17
3	8	0		22.24	22.32	22.12
3	8	4		22.31	22.30	22.17
3	8	7		22.38	22.31	22.18
3	15	0		22.30	22.29	22.15
3	1	0	16-QAM	22.59	22.58	22.41
3	1	8		22.67	22.62	22.54
3	1	14		22.68	22.61	22.53
3	8	0		21.36	21.39	21.22
3	8	4		21.43	21.39	21.27
3	8	7		21.50	21.40	21.31
3	15	0		21.44	21.37	21.26



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.24	23.27	23.24
1.4	1	3		23.22	23.25	23.22
1.4	1	5		23.29	23.26	23.25
1.4	3	0		23.21	23.26	23.18
1.4	3	1		23.21	23.28	23.17
1.4	3	3		23.22	23.31	23.19
1.4	6	0		22.26	22.33	22.21
1.4	1	0	16-QAM	22.62	22.63	22.58
1.4	1	3		22.58	22.64	22.54
1.4	1	5		22.66	22.65	22.57
1.4	3	0		22.37	22.43	22.30
1.4	3	1		22.37	22.42	22.30
1.4	3	3		22.38	22.43	22.31
1.4	6	0		21.33	21.42	21.33



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.95	23.15	23.11
20	1	49		22.88	23.03	23.08
20	1	99		22.94	23.13	23.04
20	50	0		21.95	21.97	21.92
20	50	24		21.90	21.93	21.87
20	50	50		21.94	21.95	21.85
20	100	0		21.94	21.94	21.97
20	1	0	16-QAM	21.68	21.59	21.99
20	1	49		21.65	21.63	21.93
20	1	99		21.74	21.77	21.93
20	50	0		20.87	20.83	21.03
20	50	24		20.90	20.87	20.97
20	50	50		20.95	20.94	20.95
20	100	0		20.98	20.90	20.96
15	1	0	QPSK	22.92	23.06	22.97
15	1	37		22.94	23.09	22.96
15	1	74		23.02	<b>23.16</b>	22.86
15	36	0		21.87	21.92	21.97
15	36	20		21.90	21.95	22.00
15	36	39		21.90	21.98	21.88
15	75	0		21.87	21.88	21.96
15	1	0	16-QAM	21.91	21.81	21.70
15	1	37		21.98	21.90	21.71
15	1	74		21.96	21.96	21.61
15	36	0		20.85	21.01	21.00
15	36	20		20.90	21.07	21.02
15	36	39		20.93	21.06	20.96
15	75	0		20.84	20.95	20.99



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.92	22.97	23.07
10	1	25		22.89	22.99	23.08
10	1	49		22.95	23.07	23.01
10	25	0		21.92	21.94	22.02
10	25	12		21.89	21.97	21.91
10	25	25		21.91	21.95	21.93
10	50	0		21.84	21.93	21.90
10	1	0	16-QAM	21.57	21.93	22.10
10	1	25		21.61	21.97	22.05
10	1	49		21.70	22.05	21.97
10	25	0		20.97	21.07	21.02
10	25	12		20.93	21.09	20.95
10	25	25		20.96	21.08	20.97
10	50	0		20.84	20.96	20.89
5	1	0	QPSK	22.83	22.95	22.75
5	1	12		22.81	22.91	22.71
5	1	24		22.80	22.98	22.67
5	12	0		21.81	21.97	21.83
5	12	7		21.79	21.98	21.83
5	12	13		21.83	21.97	21.84
5	25	0		21.82	21.89	21.83
5	1	0	16-QAM	21.96	22.00	21.98
5	1	12		21.91	22.01	21.97
5	1	24		21.95	22.06	21.93
5	12	0		20.85	20.95	20.88
5	12	7		20.86	20.96	20.87
5	12	13		20.84	20.99	20.88
5	25	0		20.78	20.92	20.88



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.38	23.32	23.88
20	1	49		23.34	23.31	23.46
20	1	99		23.26	23.26	23.69
20	50	0		22.39	22.40	22.76
20	50	24		22.38	22.39	22.53
20	50	50		22.34	22.37	22.55
20	100	0		22.50	22.68	22.81
20	1	0	16-QAM	22.42	22.56	22.95
20	1	49		22.64	22.60	22.73
20	1	99		22.56	22.93	22.89
20	50	0		21.28	21.16	21.71
20	50	24		21.30	21.35	21.49
20	50	50		21.26	21.75	21.52
20	100	0		21.46	21.71	21.86
15	1	0	QPSK	23.15	23.18	23.76
15	1	37		23.35	23.42	23.42
15	1	74		23.29	23.78	23.69
15	36	0		22.27	22.12	22.52
15	36	20		22.37	22.44	22.48
15	36	39		22.34	22.72	22.57
15	75	0		22.45	22.53	22.70
15	1	0	16-QAM	22.45	22.49	22.87
15	1	37		22.67	22.68	22.69
15	1	74		22.64	22.87	22.90
15	36	0		21.21	21.09	21.40
15	36	20		21.29	21.37	21.41
15	36	39		21.27	21.63	21.51
15	75	0		21.41	21.53	21.66





LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.15	23.17	23.47
10	1	25		23.24	23.34	23.44
10	1	49		23.31	23.70	23.69
10	25	0		22.16	22.10	22.37
10	25	12		22.19	22.26	22.37
10	25	25		22.26	22.47	22.49
10	50	0		22.32	22.45	22.56
10	1	0	16-QAM	22.47	22.49	22.77
10	1	25		22.57	22.70	22.66
10	1	49		22.61	23.00	22.94
10	25	0		21.05	21.01	21.31
10	25	12		21.11	21.17	21.32
10	25	25		21.17	21.36	21.43
10	50	0		21.27	21.38	21.51
5	1	0	QPSK	22.84	22.97	23.19
5	1	12		22.84	23.10	23.31
5	1	24		22.91	23.29	23.42
5	12	0		21.65	21.88	22.13
5	12	7		21.73	21.96	22.15
5	12	13		21.74	22.04	22.26
5	25	0		21.83	22.08	22.29
5	1	0	16-QAM	22.12	22.20	22.48
5	1	12		22.13	22.32	22.64
5	1	24		22.20	22.52	22.78
5	12	0		20.56	20.74	20.98
5	12	7		20.62	20.83	21.01
5	12	13		20.63	20.89	21.12
5	25	0		20.74	20.97	21.18



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.81	22.95	23.28
3	1	8		22.81	23.10	23.40
3	1	14		22.87	23.12	23.41
3	8	0		21.65	21.85	22.12
3	8	4		21.64	21.91	22.18
3	8	7		21.72	21.91	22.21
3	15	0		21.77	22.04	22.29
3	1	0	16-QAM	22.06	22.17	22.53
3	1	8		22.04	22.34	22.68
3	1	14		22.11	22.34	22.68
3	8	0		20.57	20.86	21.03
3	8	4		20.58	20.91	21.11
3	8	7		20.67	20.90	21.13
3	15	0		20.67	20.91	21.19
1.4	1	0	QPSK	22.81	23.03	23.41
1.4	1	3		22.79	23.07	23.41
1.4	1	5		22.77	23.08	23.40
1.4	3	0		22.66	22.97	23.29
1.4	3	1		22.68	22.96	23.29
1.4	3	3		22.69	23.02	23.32
1.4	6	0		21.63	21.99	22.27
1.4	1	0	16-QAM	22.12	22.39	22.75
1.4	1	3		22.07	22.42	22.71
1.4	1	5		22.11	22.44	22.75
1.4	3	0		21.72	21.94	22.34
1.4	3	1		21.68	21.96	22.33
1.4	3	3		21.69	22.03	22.39
1.4	6	0		20.64	20.97	21.27



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.35	0.2163	24.88	0.3076
Middle		1	0	23.28	0.2128	24.81	0.3027
Highest		1	0	22.73	0.1875	24.26	0.2667
Lowest	16QAM	1	5	22.64	0.1837	24.17	0.2612
Middle		1	5	22.47	0.1766	24.00	0.2512
Highest		1	5	21.89	0.1545	23.42	0.2198
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.30	0.2138	24.83	0.3041
Middle		1	0	23.18	0.2080	24.71	0.2958
Highest		1	0	22.66	0.1845	24.19	0.2624
Lowest	16QAM	1	8	22.58	0.1811	24.11	0.2576
Middle		1	8	22.48	0.1770	24.01	0.2518
Highest		1	8	21.89	0.1545	23.42	0.2198
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.71	0.2350	25.24	0.3342
Middle		1	0	23.64	0.2312	25.17	0.3289
Highest		1	0	22.99	0.1991	24.52	0.2831
Lowest	16QAM	1	0	22.98	0.1986	24.51	0.2825
Middle		1	0	22.89	0.1945	24.42	0.2767
Highest		1	0	22.24	0.1675	23.77	0.2382
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.75	0.2371	25.28	0.3373
Middle		1	0	23.68	0.2333	25.21	0.3319
Highest		1	0	22.94	0.1968	24.47	0.2799
Lowest	16QAM	1	0	22.84	0.1923	24.37	0.2735
Middle		1	0	22.88	0.1941	24.41	0.2761
Highest		1	0	22.16	0.1644	23.69	0.2339
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.75	0.2371	25.28	0.3373
Middle		1	0	23.57	0.2275	25.10	0.3236
Highest		1	0	23.12	0.2051	24.65	0.2917
Lowest	16QAM	1	0	22.85	0.1928	24.38	0.2742
Middle		1	0	22.77	0.1892	24.30	0.2692
Highest		1	0	22.29	0.1694	23.82	0.2410
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = 1.53 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.90	0.2455	25.43	0.3491
Middle		1	0	23.59	0.2286	25.12	0.3251
Highest		1	0	23.36	0.2168	24.89	0.3083
Lowest	16QAM	1	49	22.82	0.1914	24.35	0.2723
Middle		1	49	22.96	0.1977	24.49	0.2812
Highest		1	49	22.23	0.1671	23.76	0.2377
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	5	22.68	0.1854	23.23	0.2104
Middle		1	5	22.74	0.1879	23.29	0.2133
Highest		1	5	23.37	0.2173	23.92	0.2466
Lowest	16QAM	1	5	21.90	0.1549	22.45	0.1758
Middle		1	5	22.02	0.1592	22.57	0.1807
Highest		1	5	22.57	0.1807	23.12	0.2051
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	8	22.67	0.1849	23.22	0.2099
Middle		1	8	22.76	0.1888	23.31	0.2143
Highest		1	8	23.31	0.2143	23.86	0.2432
Lowest	16QAM	1	8	21.87	0.1538	22.42	0.1746
Middle		1	8	21.98	0.1578	22.53	0.1791
Highest		1	8	22.52	0.1786	23.07	0.2028
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.97	0.1982	23.52	0.2249
Middle		1	0	23.17	0.2075	23.72	0.2355
Highest		1	0	23.63	0.2307	24.18	0.2618
Lowest	16QAM	1	24	22.35	0.1718	22.90	0.1950
Middle		1	24	22.20	0.1660	22.75	0.1884
Highest		1	24	22.92	0.1959	23.47	0.2223
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.24	0.2109	23.79	0.2393
Middle		1	49	22.98	0.1986	23.53	0.2254
Highest		1	49	23.63	0.2307	24.18	0.2618
Lowest	16QAM	1	49	22.53	0.1791	23.08	0.2032
Middle		1	49	22.21	0.1663	22.76	0.1888
Highest		1	49	22.88	0.1941	23.43	0.2203
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.14	0.2061	23.69	0.2339
Middle		1	74	22.86	0.1932	23.41	0.2193
Highest		1	74	23.60	0.2291	24.15	0.2600
Lowest	16QAM	1	74	22.41	0.1742	22.96	0.1977
Middle		1	74	22.05	0.1603	22.60	0.1820
Highest		1	74	22.80	0.1905	23.35	0.2163
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = 0.55 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.12	0.2051	23.67	0.2328
Middle		1	0	23.65	0.2317	24.20	0.2630
Highest		1	0	23.15	0.2065	23.70	0.2344
Lowest	16QAM	1	99	22.36	0.1722	22.91	0.1954
Middle		1	99	22.24	0.1675	22.79	0.1901
Highest		1	99	22.84	0.1923	23.39	0.2183
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -1.42 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	5	23.87	0.2438	20.30	0.1072
Middle		1	5	23.76	0.2377	20.19	0.1045
Highest		1	5	23.70	0.2344	20.13	0.1030
Lowest	16QAM	1	0	23.28	0.2128	19.71	0.0935
Middle		1	0	23.08	0.2032	19.51	0.0893
Highest		1	0	23.10	0.2042	19.53	0.0897
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -1.42 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.79	0.2393	20.22	0.1052
Middle		1	0	23.75	0.2371	20.18	0.1042
Highest		1	0	23.59	0.2286	20.02	0.1005
Lowest	16QAM	1	0	23.17	0.2075	19.60	0.0912
Middle		1	0	23.06	0.2023	19.49	0.0889
Highest		1	0	22.89	0.1945	19.32	0.0855
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -1.42 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.88	0.2443	20.31	0.1074
Middle		1	0	23.82	0.2410	20.25	0.1059
Highest		1	0	23.60	0.2291	20.03	0.1007
Lowest	16QAM	1	0	23.25	0.2113	19.68	0.0929
Middle		1	0	23.19	0.2084	19.62	0.0916
Highest		1	0	22.90	0.1950	19.33	0.0857
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -1.42 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.90	0.2455	20.33	0.1079
Middle		1	0	23.92	0.2466	20.35	0.1084
Highest		1	0	23.83	0.2415	20.26	0.1062
Lowest	16QAM	1	0	23.28	0.2128	19.71	0.0935
Middle		1	0	23.28	0.2128	19.71	0.0935
Highest		1	0	23.20	0.2089	19.63	0.0918
Limit	ERP < 7W			Result		PASS	





LTE Band 7 / 5MHz (Average) (GT - LC = 1.87 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.52	0.1786	24.39	0.2748
Middle		1	0	22.59	0.1816	24.46	0.2793
Highest		1	0	22.64	0.1837	24.51	0.2825
Lowest	16QAM	1	0	21.76	0.1500	23.63	0.2307
Middle		1	0	21.82	0.1521	23.69	0.2339
Highest		1	0	21.92	0.1556	23.79	0.2393
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = 1.87 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.57	0.1807	24.44	0.2780
Middle		1	25	22.62	0.1828	24.49	0.2812
Highest		1	25	22.66	0.1845	24.53	0.2838
Lowest	16QAM	1	49	21.83	0.1524	23.70	0.2344
Middle		1	49	21.89	0.1545	23.76	0.2377
Highest		1	49	21.85	0.1531	23.72	0.2355
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = 1.87 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	37	22.65	0.1841	24.52	0.2831
Middle		1	37	22.63	0.1832	24.50	0.2818
Highest		1	37	22.67	0.1849	24.54	0.2844
Lowest	16QAM	1	74	21.89	0.1545	23.76	0.2377
Middle		1	74	21.81	0.1517	23.68	0.2333
Highest		1	74	21.82	0.1521	23.69	0.2339
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = 1.87 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.53	0.1791	24.40	0.2754
Middle		1	0	22.72	0.1871	24.59	0.2877
Highest		1	0	22.58	0.1811	24.45	0.2786
Lowest	16QAM	1	99	21.93	0.1560	23.80	0.2399
Middle		1	99	21.86	0.1535	23.73	0.2360
Highest		1	99	21.95	0.1567	23.82	0.2410
Limit	EIRP < 2W			Result		PASS	



LTE Band 12 / 1.4MHz (Average) (GT - LC = -0.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	5	23.18	0.2080	20.32	0.1076
Middle		1	5	23.34	0.2158	20.48	0.1117
Highest		1	5	23.40	0.2188	20.54	0.1132
Lowest	16QAM	1	5	22.49	0.1774	19.63	0.0918
Middle		1	5	22.72	0.1871	19.86	0.0968
Highest		1	5	22.73	0.1875	19.87	0.0971
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average) (GT - LC = -0.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	14	23.28	0.2128	20.42	0.1102
Middle		1	14	23.22	0.2099	20.36	0.1086
Highest		1	14	23.35	0.2163	20.49	0.1119
Lowest	16QAM	1	8	22.60	0.1820	19.74	0.0942
Middle		1	8	22.71	0.1866	19.85	0.0966
Highest		1	8	22.71	0.1866	19.85	0.0966
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 5MHz (Average) (GT - LC = -0.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.39	0.2183	20.53	0.1130
Middle		1	24	23.33	0.2153	20.47	0.1114
Highest		1	24	23.41	0.2193	20.55	0.1135
Lowest	16QAM	1	24	22.87	0.1936	20.01	0.1002
Middle		1	24	22.68	0.1854	19.82	0.0959
Highest		1	24	22.86	0.1932	20.00	0.1000
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 10MHz (Average) (GT - LC = -0.71 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.18	0.2080	20.32	0.1076
Middle		1	0	23.47	0.2223	20.61	0.1151
Highest		1	0	23.40	0.2188	20.54	0.1132
Lowest	16QAM	1	49	22.75	0.1884	19.89	0.0975
Middle		1	49	22.76	0.1888	19.90	0.0977
Highest		1	49	22.91	0.1954	20.05	0.1012
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.34	0.2158	20.09	0.1021
Middle		1	0	23.52	0.2249	20.27	0.1064
Highest		1	0	23.41	0.2193	20.16	0.1038
Lowest	16QAM	1	0	22.67	0.1849	19.42	0.0875
Middle		1	0	22.95	0.1972	19.70	0.0933
Highest		1	0	22.85	0.1928	19.60	0.0912
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -1.1 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	23.53	0.2254	20.28	0.1067
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.90	0.1950	19.65	0.0923
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.45	0.2213	20.40	0.1096
Middle		1	0	23.36	0.2168	20.31	0.1074
Highest		1	0	23.31	0.2143	20.26	0.1062
Lowest	16QAM	1	24	22.72	0.1871	19.67	0.0927
Middle		1	24	22.75	0.1884	19.70	0.0933
Highest		1	24	22.83	0.1919	19.78	0.0951
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.41	0.2193	20.36	0.1086
Middle		1	0	23.48	0.2228	20.43	0.1104
Highest		1	0	23.41	0.2193	20.36	0.1086
Lowest	16QAM	1	49	22.87	0.1936	19.82	0.0959
Middle		1	49	22.95	0.1972	19.90	0.0977
Highest		1	49	22.89	0.1945	19.84	0.0964
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = 1.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.80	0.1905	24.31	0.2698
Middle		1	24	22.98	0.1986	24.49	0.2812
Highest		1	24	22.67	0.1849	24.18	0.2618
Lowest	16QAM	1	24	21.95	0.1567	23.46	0.2218
Middle		1	24	22.06	0.1607	23.57	0.2275
Highest		1	24	21.93	0.1560	23.44	0.2208
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 10MHz (Average) (GT - LC = 1.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.89	0.1945	24.40	0.2754
Middle		1	25	22.99	0.1991	24.50	0.2818
Highest		1	25	23.08	0.2032	24.59	0.2877
Lowest	16QAM	1	0	21.57	0.1435	23.08	0.2032
Middle		1	0	21.93	0.1560	23.44	0.2208
Highest		1	0	22.10	0.1622	23.61	0.2296
Limit	EIRP < 2W			Result		PASS	

LTE Band 41 / 15MHz (Average) (GT - LC = 1.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.02	0.2004	24.53	0.2838
Middle		1	74	23.16	0.2070	24.67	0.2931
Highest		1	74	22.86	0.1932	24.37	0.2735
Lowest	16QAM	1	37	21.98	0.1578	23.49	0.2234
Middle		1	37	21.90	0.1549	23.41	0.2193
Highest		1	37	21.71	0.1483	23.22	0.2099
Limit	EIRP < 2W			Result		PASS	



LTE Band 41 / 20MHz (Average) (GT - LC = 1.51 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.95	0.1972	24.46	0.2793
Middle		1	0	23.15	0.2065	24.66	0.2924
Highest		1	0	23.11	0.2046	24.62	0.2897
Lowest	16QAM	1	0	21.68	0.1472	23.19	0.2084
Middle		1	0	21.59	0.1442	23.10	0.2042
Highest		1	0	21.99	0.1581	23.50	0.2239
Limit	EIRP < 2W			Result		PASS	





LTE Band 26 / 1.4MHz (Average) (GT - LC = -1.67 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	3	23.22	0.2099	19.40	0.0871
Middle		3	3	23.31	0.2143	19.49	0.0889
Highest		3	3	23.19	0.2084	19.37	0.0865
Lowest	16QAM	1	5	22.66	0.1845	18.84	0.0766
Middle		1	5	22.65	0.1841	18.83	0.0764
Highest		1	5	22.57	0.1807	18.75	0.0750
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 3MHz (Average) (GT - LC = -1.67 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.36	0.2168	19.54	0.0899
Middle		1	8	23.30	0.2138	19.48	0.0887
Highest		1	8	23.20	0.2089	19.38	0.0867
Lowest	16QAM	1	14	22.68	0.1854	18.86	0.0769
Middle		1	14	22.61	0.1824	18.79	0.0757
Highest		1	14	22.53	0.1791	18.71	0.0743
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 5MHz (Average) (GT - LC = -1.67 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	23.47	0.2223	19.65	0.0923
Middle		1	24	23.33	0.2153	19.51	0.0893
Highest		1	24	23.24	0.2109	19.42	0.0875
Lowest	16QAM	1	24	22.81	0.1910	18.99	0.0793
Middle		1	24	22.68	0.1854	18.86	0.0769
Highest		1	24	22.59	0.1816	18.77	0.0753
Limit	ERP < 7W			Result		PASS	



LTE Band 26 / 10MHz (Average) (GT - LC = -1.67 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	23.52	0.2249	19.70	0.0933
Middle		1	49	23.35	0.2163	19.53	0.0897
Highest		1	49	23.34	0.2158	19.52	0.0895
Lowest	16QAM	1	25	22.90	0.1950	19.08	0.0809
Middle		1	25	22.71	0.1866	18.89	0.0774
Highest		1	25	22.50	0.1778	18.68	0.0738
Limit	ERP < 7W			Result		PASS	

LTE Band 26 / 15MHz (Average) (GT - LC = -1.67 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.49	0.2234	19.67	0.0927
Middle		1	0	23.54	0.2259	19.72	0.0938
Highest		1	0	23.39	0.2183	19.57	0.0906
Lowest	16QAM	1	37	22.89	0.1945	19.07	0.0807
Middle		1	37	22.78	0.1897	18.96	0.0787
Highest		1	37	22.62	0.1828	18.80	0.0759
Limit	ERP < 7W			Result		PASS	



LTE Band 66 / 1.4MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.81	0.1910	23.91	0.2460
Middle		1	0	23.03	0.2009	24.13	0.2588
Highest		1	0	23.41	0.2193	24.51	0.2825
Lowest	16QAM	1	0	22.12	0.1629	23.22	0.2099
Middle		1	0	22.39	0.1734	23.49	0.2234
Highest		1	0	22.75	0.1884	23.85	0.2427
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 3MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	22.87	0.1936	23.97	0.2495
Middle		1	14	23.12	0.2051	24.22	0.2642
Highest		1	14	23.41	0.2193	24.51	0.2825
Lowest	16QAM	1	8	22.04	0.1600	23.14	0.2061
Middle		1	8	22.34	0.1714	23.44	0.2208
Highest		1	8	22.68	0.1854	23.78	0.2388
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 5MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	22.91	0.1954	24.01	0.2518
Middle		1	24	23.29	0.2133	24.39	0.2748
Highest		1	24	23.42	0.2198	24.52	0.2831
Lowest	16QAM	1	24	22.20	0.1660	23.30	0.2138
Middle		1	24	22.52	0.1786	23.62	0.2301
Highest		1	24	22.78	0.1897	23.88	0.2443
Limit	EIRP < 1W			Result		PASS	



LTE Band 66 / 10MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	23.31	0.2143	24.41	0.2761
Middle		1	49	23.70	0.2344	24.80	0.3020
Highest		1	49	23.69	0.2339	24.79	0.3013
Lowest	16QAM	1	49	22.61	0.1824	23.71	0.2350
Middle		1	49	23.00	0.1995	24.10	0.2570
Highest		1	49	22.94	0.1968	24.04	0.2535
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 15MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	23.29	0.2133	24.39	0.2748
Middle		1	74	23.78	0.2388	24.88	0.3076
Highest		1	74	23.69	0.2339	24.79	0.3013
Lowest	16QAM	1	74	22.64	0.1837	23.74	0.2366
Middle		1	74	22.87	0.1936	23.97	0.2495
Highest		1	74	22.90	0.1950	24.00	0.2512
Limit	EIRP < 1W			Result		PASS	

LTE Band 66 / 20MHz (Average) (GT - LC = 1.1 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.38	0.2178	24.48	0.2805
Middle		1	0	23.32	0.2148	24.42	0.2767
Highest		1	0	23.88	0.2443	24.98	0.3148
Lowest	16QAM	1	0	22.42	0.1746	23.52	0.2249
Middle		1	0	22.56	0.1803	23.66	0.2323
Highest		1	0	22.95	0.1972	24.05	0.2541
Limit	EIRP < 1W			Result		PASS	



**Radiated Spurious Emission**

**Part22H LTE Band 5**

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( 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	1648	-57.24	-13	-44.24	-71.74	-59	0.98	4.89	H
	2472	-45.36	-13	-32.36	-62.99	-47.24	1.28	5.32	H
	3296	-58.05	-13	-45.05	-79.07	-61.46	1.54	7.10	H
									H
									H
									H
	1648	-57.27	-13	-44.27	-71.77	-59.03	0.98	4.89	V
	2472	-45.85	-13	-32.85	-63.48	-47.73	1.28	5.32	V
	3296	-58.28	-13	-45.28	-79.3	-61.69	1.54	7.10	V
									V
									V
									V
Middle	1664	-57.15	-13	-44.15	-71.7	-58.86	0.98	4.84	H
	2496	-49.14	-13	-36.14	-66.86	-51.09	1.29	5.39	H
	3328	-57.97	-13	-44.97	-79.08	-61.51	1.55	7.24	H
									H
									H
									H
	1664	-59.76	-13	-46.76	-74.31	-61.47	0.98	4.84	V
	2496	-43.27	-13	-30.27	-60.99	-45.22	1.29	5.39	V
	3328	-58.05	-13	-45.05	-79.16	-61.59	1.55	7.24	V
									V
									V
									V



Highest	1680	-55.55	-13	-42.55	-70.16	-57.2	0.99	4.80	H
	2520	-52.14	-13	-39.14	-69.95	-54.11	1.30	5.42	H
	3360	-57.65	-13	-44.65	-78.86	-61.32	1.56	7.38	H
									H
									H
									H
									H
	1680	-56.32	-13	-43.32	-70.93	-57.97	0.99	4.80	V
	2520	-53.38	-13	-40.38	-71.19	-55.35	1.30	5.42	V
	3360	-57.72	-13	-44.72	-78.93	-61.39	1.56	7.38	V
									V
									V
									V
									V

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



Part22H LTE Band 26

LTE Band 26 / 15MHz / 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	1648	-53.85	-13	-40.85	-68.36	-55.61	0.98	4.89	H
	2472	-49.56	-13	-36.56	-67.2	-51.44	1.28	5.32	H
	4952	-52.14	-13	-39.14	-78.63	-57.28	2.31	9.60	H
									H
									H
									H
									H
	1648	-52.90	-13	-39.90	-67.41	-54.66	0.98	4.89	V
	2472	-47.17	-13	-34.17	-64.81	-49.05	1.28	5.32	V
	4952	-52.72	-13	-39.72	-79.21	-57.86	2.31	9.60	V
									V
									V
									V
									V
Middle	1656	-59.48	-13	-46.48	-74.03	-61.21	0.98	4.86	H
	2488	-41.45	-13	-28.45	-59.16	-43.38	1.29	5.36	H
	4976	-51.23	-13	-38.23	-77.87	-56.41	2.32	9.65	H
									H
									H
									H
									H
	1656	-55.94	-13	-42.94	-70.29	-57.67	0.98	4.86	V
	2488	-41.87	-13	-28.87	-59.58	-43.8	1.29	5.36	V
	4976	-53.01	-13	-40.01	-79.65	-58.19	2.32	9.65	V
									V
									V
									V
									V



Highest	1672	-56.31	-13	-43.31	-70.89	-57.99	0.99	4.82	H
	2504	-46.18	-13	-33.18	-63.91	-48.14	1.29	5.40	H
	4176	-56.60	-13	-43.60	-79.72	-61.22	1.86	8.64	H
									H
									H
									H
									H
	1672	-54.87	-13	-41.87	-69.45	-56.55	0.99	4.82	V
	2504	-39.94	-13	-26.94	-57.67	-41.9	1.29	5.40	V
	4176	-54.42	-13	-41.42	-77.54	-59.04	1.86	8.64	V
									V
									V
									V
									V

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





Part24E LTE Band 2

LTE Band 2 / 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	3700	-56.99	-13	-43.99	-78.88	-63.56	1.67	8.24	H
	5555	-52.68	-13	-39.68	-80.81	-59.75	2.66	9.72	H
	7403	-46.27	-13	-33.27	-81.11	-55.42	2.46	11.61	H
									H
									H
									H
									H
	3700	-56.41	-13	-43.41	-78.3	-62.98	1.67	8.24	V
	5555	-51.52	-13	-38.52	-79.95	-58.59	2.66	9.72	V
	7403	-46.18	-13	-33.18	-81.02	-55.33	2.46	11.61	V
									V
									V
									V
									V
Middle	3742	-56.20	-13	-43.20	-78.15	-62.81	1.68	8.29	H
	5611	-51.28	-13	-38.28	-79.56	-58.34	2.69	9.74	H
	7487	-46.21	-13	-33.21	-81.24	-55.55	2.43	11.77	H
									H
									H
									H
									H
	3742	-56.36	-13	-43.36	-78.31	-62.97	1.68	8.29	V
	5611	-50.61	-13	-37.61	-78.89	-57.67	2.69	9.74	V
	7487	-45.78	-13	-32.78	-80.81	-55.12	2.43	11.77	V
									V
									V
									V
									V



Highest	3784	-56.85	-13	-43.85	-78.86	-63.5	1.69	8.34	H
	5674	-51.62	-13	-38.62	-80.11	-58.66	2.73	9.77	H
	7564	-45.82	-13	-32.82	-80.96	-55.25	2.41	11.84	H
									H
									H
									H
									H
	3784	-56.78	-13	-43.78	-78.79	-63.43	1.69	8.34	V
	5674	-51.46	-13	-38.46	-79.95	-58.5	2.73	9.77	V
	7564	-45.75	-13	-32.75	-80.89	-55.18	2.41	11.84	V
									V
									V
									V
									V

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



**Part27H LTE Band 12**

LTE Band 12 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( 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	1400	-51.33	-13	-38.33	-64.58	-52.99	0.87	4.68	H
	2096	-33.46	-13	-20.46	-49.22	-34.33	1.16	4.19	H
	2794	-59.54	-13	-46.54	-78.76	-61.64	1.38	5.64	H
									H
									H
									H
									H
	1400	-48.81	-13	-35.81	-62.06	-50.47	0.87	4.68	V
	2096	-37.07	-13	-24.07	-52.83	-37.94	1.16	4.19	V
	2794	-59.21	-13	-46.21	-78.43	-61.31	1.38	5.64	V
									V
									V
									V
									V
Middle	1408	-48.25	-13	-35.25	-61.50	-49.96	0.87	4.73	H
	2112	-36.45	-13	-23.45	-52.28	-37.37	1.17	4.24	H
	2816	-59.60	-13	-46.60	-78.90	-61.71	1.39	5.65	H
									H
									H
									H
									H
	1408	-52.61	-13	-39.61	-65.86	-54.32	0.87	4.73	V
	2112	-32.19	-13	-19.19	-48.02	-33.11	1.17	4.24	V
	2816	-58.87	-13	-45.87	-78.17	-60.98	1.39	5.65	V
									V
									V
									V
									V



Highest	1416	-47.13	-13	-34.13	-60.38	-48.88	0.87	4.78	H
	2120	-36.14	-13	-23.14	-52.05	-37.08	1.17	4.26	H
	2826	-58.94	-13	-45.94	-78.24	-61.06	1.39	5.66	H
									H
									H
									H
									H
	1416	-51.66	-13	-38.66	-64.91	-53.41	0.87	4.78	V
	2120	-43.37	-13	-30.37	-59.28	-44.31	1.17	4.26	V
	2826	-59.34	-13	-46.34	-78.64	-61.46	1.39	5.66	V
									V
									V
									V
									V

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



Part27H LTE Band 17

LTE Band 17 / 10MHz / QPSK									
Channel	Frequency ( MHz )	ERP ( 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	1408	-48.81	-13	-35.81	-62.06	-50.52	0.87	4.73	H
	2112	-37.00	-13	-24.00	-52.83	-37.92	1.17	4.24	H
	2816	-59.35	-13	-46.35	-78.65	-61.46	1.39	5.65	H
									H
									H
									H
									H
	1408	-52.46	-13	-39.46	-65.71	-54.17	0.87	4.73	V
	2112	-40.73	-13	-27.73	-56.56	-41.65	1.17	4.24	V
	2816	-59.40	-13	-46.40	-78.70	-61.51	1.39	5.65	V
									V
									V
									V
									V
Middle	1408	-54.93	-13	-41.93	-68.18	-56.64	0.87	4.73	H
	2120	-36.68	-13	-23.68	-52.59	-37.62	1.17	4.26	H
	2824	-59.28	-13	-46.28	-78.58	-61.40	1.39	5.66	H
									H
									H
									H
									H
	1408	-52.73	-13	-39.73	-65.98	-54.44	0.87	4.73	V
	2120	-40.25	-13	-27.25	-56.16	-41.19	1.17	4.26	V
	2824	-59.17	-13	-46.17	-78.47	-61.29	1.39	5.66	V
									V
									V
									V
									V



Highest	1416	-50.35	-13	-37.35	-63.60	-52.10	0.87	4.78	H
	2120	-36.18	-13	-23.18	-52.09	-37.12	1.17	4.26	H
	2824	-59.31	-13	-46.31	-78.61	-61.43	1.39	5.66	H
									H
									H
									H
									H
	1416	-53.29	-13	-40.29	-66.54	-55.04	0.87	4.78	V
	2120	-40.20	-13	-27.20	-56.11	-41.14	1.17	4.26	V
	2824	-59.31	-13	-46.31	-78.61	-61.43	1.39	5.66	V
									V
									V
									V
									V

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



Part27L LTE Band 4

LTE Band 4 / 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	3420	-64.16	-13	-51.16	-72.52	-70.23	1.58	7.65	H
	5135	-47.69	-13	-34.69	-74.76	-54.98	2.41	9.70	H
	10264	-36.62	-13	-23.62	-79.03	-46.23	2.69	12.31	H
									H
									H
									H
	3420	-50.44	-13	-37.44	-71.8	-56.51	1.58	7.65	H
	5135	-46.62	-13	-33.62	-73.69	-53.91	2.41	9.70	V
	10264	-35.49	-13	-22.49	-77.9	-45.1	2.69	12.31	V
									V
									V
									V
									V
									V
Middle	3448	-51.05	-13	-38.05	-72.5	-57.23	1.59	7.77	H
	5170	-49.89	-13	-36.89	-77.04	-57.16	2.43	9.70	H
	6870	-47.04	-13	-34.04	-80.65	-55.05	2.63	10.64	H
									H
									H
									H
	3448	-50.93	-13	-37.93	-72.38	-57.11	1.59	7.77	V
	5170	-48.79	-13	-35.79	-75.94	-56.06	2.43	9.70	V
	6870	-46.82	-13	-33.82	-80.43	-54.83	2.63	10.64	V
									V
									V
									V
									V
									V



Highest	3476	-52.27	-13	-39.27	-73.81	-58.57	1.60	7.89	H
	5212	-51.78	-13	-38.78	-79.06	-59.02	2.46	9.70	H
	10416	-36.15	-13	-23.15	-79.09	-45.82	2.69	12.37	H
									H
									H
									H
									H
	3476	-52.46	-13	-39.46	-74	-58.76	1.60	7.89	V
	5212	-50.83	-13	-37.83	-78.11	-58.07	2.46	9.70	V
	10416	-34.73	-13	-21.73	-77.67	-44.4	2.69	12.37	V
									V
									V
									V
									V

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





**Part27L LTE Band 66**

LTE Band 66 / 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	1648	-53.85	-13	-40.85	-68.36	-55.61	0.98	4.89	H
	2472	-49.56	-13	-36.56	-67.2	-51.44	1.28	5.32	H
	4952	-52.14	-13	-39.14	-78.63	-57.28	2.31	9.60	H
									H
									H
									H
									H
	1648	-52.90	-13	-39.90	-67.41	-54.66	0.98	4.89	V
	2472	-47.17	-13	-34.17	-64.81	-49.05	1.28	5.32	V
	4952	-52.72	-13	-39.72	-79.21	-57.86	2.31	9.60	V
									V
									V
									V
									V
Middle	1656	-59.48	-13	-46.48	-74.03	-61.21	0.98	4.86	H
	2488	-41.45	-13	-28.45	-59.16	-43.38	1.29	5.36	H
	4976	-51.23	-13	-38.23	-77.87	-56.41	2.32	9.65	H
									H
									H
									H
									H
	1656	-55.94	-13	-42.94	-70.29	-57.67	0.98	4.86	V
	2488	-41.87	-13	-28.87	-59.58	-43.8	1.29	5.36	V
	4976	-53.01	-13	-40.01	-79.65	-58.19	2.32	9.65	V
									V
									V
									V
									V
								V	



Highest	1672	-56.31	-13	-43.31	-70.89	-57.99	0.99	4.82	H
	2504	-46.18	-13	-33.18	-63.91	-48.14	1.29	5.40	H
	4176	-56.60	-13	-43.60	-79.72	-61.22	1.86	8.64	H
									H
									H
									H
									H
	1672	-54.87	-13	-41.87	-69.45	-56.55	0.99	4.82	V
	2504	-39.94	-13	-26.94	-57.67	-41.9	1.29	5.40	V
	4176	-54.42	-13	-41.42	-77.54	-59.04	1.86	8.64	V
									V
									V
									V
									V

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



**Part27M LTE Band 7**

LTE Band 7 / 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	5000	-52.79	-25	-27.79	-79.51	-60.15	2.34	9.70	H
	7500	-44.34	-25	-19.34	-79.36	-53.71	2.43	11.80	H
	10000	-39.71	-25	-14.71	-81.16	-49.21	2.70	12.20	H
									H
									H
									H
									H
	5000	-53.04	-25	-28.04	-79.76	-60.4	2.34	9.70	V
	7500	-44.52	-25	-19.52	-79.54	-53.89	2.43	11.80	V
	10000	-39.22	-25	-14.22	80.67	-48.72	2.70	12.20	V
									V
									V
									V
									V
Middle	5056	-52.57	-25	-27.57	-79.41	-59.9	2.37	9.70	H
	7584	-43.18	-25	-18.18	-78.35	-52.63	2.40	11.85	H
	15161	-29.17	-25	-4.17	-80.87	-39.33	3.66	13.83	H
									H
									H
									H
									H
	5056	-52.95	-25	-27.95	-79.84	-60.28	2.37	9.70	V
	7584	-41.97	-25	-16.97	-77.14	-51.42	2.40	11.85	V
	15161	-31.47	-25	-6.47	-80.87	-41.63	3.66	13.83	V
									V
									V
									V
									V



Highest	5104	-52.57	-25	-27.57	-79.55	-59.87	2.40	9.70	H
	7656	-41.94	-25	-16.94	-77.27	-51.45	2.38	11.89	H
	15310	-30.94	-25	-5.94	-79.83	-41.25	3.73	14.03	H
									H
									H
									H
									H
	5104	-52.60	-25	-27.60	-79.58	-59.9	2.40	9.70	V
	7656	-41.50	-25	-16.50	-76.83	-51.01	2.38	11.89	V
	15310	-30.86	-25	-5.86	-79.75	-41.17	3.73	14.03	V
									V
									V
									V
									V

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



**Part27M LTE Band 41**

LTE Band 41 / 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	4992	-52.67	-25	-27.67	-79.39	-60.02	2.33	9.68	H
	7488	-39.55	-25	-14.55	-74.58	-48.89	2.43	11.78	H
	9984	-39.76	-25	-14.76	-81.17	-49.28	2.69	12.21	H
									H
									H
									H
									H
	4992	-52.30	-25	-27.30	-79.02	-59.65	2.33	9.68	V
	7488	-35.47	-25	-10.47	-70.5	-44.81	2.43	11.78	V
	9984	-39.85	-25	-14.85	-81.26	-49.37	2.69	12.21	V
									V
									V
									V
									V
Middle	5172	-52.02	-25	-27.02	-79.16	-59.28	2.44	9.70	H
	7752	-43.37	-25	-18.37	-78.85	-52.97	2.35	11.95	H
	10332	-38.20	-25	-13.20	-80.84	-47.84	2.69	12.33	H
									H
									H
									H
									H
	5172	-49.38	-25	-24.38	-76.52	-56.64	2.44	9.70	V
	7752	-39.50	-25	-14.50	-74.98	-49.1	2.35	11.95	V
	10332	-38.40	-25	-13.40	-81.04	-48.04	2.69	12.33	V
									V
									V
									V
									V



Highest	5340	-48.49	-25	-23.49	-76.05	-55.66	2.53	9.70	H
	8016	-41.15	-25	-16.15	-77.1	-50.99	2.27	12.11	H
	10680	-37.21	-25	-12.21	-80.71	-46.96	2.69	12.44	H
	13356	-34.72	-25	-9.72	-81.19	-45.2	3.02	13.50	H
									H
									H
									H
	5340	-46.13	-25	-21.13	-73.69	-53.3	2.53	9.70	V
	8016	-42.14	-25	-17.14	-78.09	-51.98	2.27	12.11	V
	10680	-37.25	-25	-12.25	-80.75	-47	2.69	12.44	V
	13356	-33.52	-25	-8.52	-79.99	-44	3.02	13.50	V
									V
									V
									V

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