



# FCC RF Test Report

**APPLICANT** : PAX Technology Limited  
**EQUIPMENT** : Mobile Payment Terminal  
**BRAND NAME** : PAX  
**MODEL NAME** : D190  
**FCC ID** : V5PD190LTE  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(F), 27(H)  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

The product was installed a module during the test: LTE (CatM1,NB-IO) Module (Model Name: M910-GL, FCC ID: ZMOM910GL) during test.

The product was received on Jun. 17, 2019 and completely tested on Jun. 25, 2019. We, Sporton International (ShenZhen) 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.

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

*Derreck Chen*

Reviewed by: Derreck Chen / Supervisor

*Eric Shih*

Approved by: Eric Shih / Manager



**Sporton International (ShenZhen) Inc.**

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



TABLE OF CONTENTS

REVISION HISTORY..... 3
SUMMARY OF TEST RESULT ..... 4
1 GENERAL DESCRIPTION ..... 5
1.1 Applicant ..... 5
1.2 Product Feature of Equipment Under Test..... 5
1.3 Product Specification of Equipment Under Test..... 6
1.4 Modification of EUT ..... 6
1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator ..... 7
1.6 Testing Location ..... 9
1.7 Applicable Standards..... 9
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ..... 10
2.1 Test Mode ..... 10
2.2 Connection Diagram of Test System..... 11
2.3 Support Unit used in test configuration and system ..... 11
2.4 Frequency List of Low/Middle/High Channels ..... 12
3 CONDUCTED TEST ITEMS ..... 15
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
4 RADIATED TEST ITEMS ..... 17
4.1 Measuring Instruments ..... 17
4.2 Test Setup ..... 17
4.3 Test Result of Radiated Test ..... 17
4.4 Radiated Spurious Emission ..... 18
5 LIST OF MEASURING EQUIPMENT ..... 19
6 UNCERTAINTY OF EVALUATION ..... 20
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG961801B	Rev. 01	Initial issue of report	Jul. 29, 2019



## 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)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt	PASS	
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	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(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 26)	< 43+10log <sub>10</sub> (P[Watts])	PASS	1
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 26)	< 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(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 26)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 25.15 dB at 1555.000 MHz

Remark 1: The conducted test items were leverage from module RF report which can refer to Report No.

“SZEM180400321702”.



# 1 General Description

## 1.1 Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

## 1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Payment Terminal
Brand Name	PAX
Model Name	D190
FCC ID	V5PD190LTE
EUT supports Radios application	GSM/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR / EDR / LE
IMEI Code	Radiation: 868197030033828
HW Version	D190-xxx-xxx-xxxx
SW Version	V0.0.0.1
EUT Stage	Production Unit



### 1.3 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 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 26 : 824.7MHz ~ 848.3 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 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz
<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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
<b>Maximum Output Power to Antenna</b>	LTE Band 2 : 22.78 dBm LTE Band 4 : 22.60 dBm LTE Band 5 : 22.96 dBm LTE Band 12 : 22.51 dBm LTE Band 13 : 22.86 dBm LTE Band 26 : 22.79 dBm
<b>Antenna Gain</b>	LTE Band 2 : 1.00 dBi LTE Band 4 : 1.00 dBi LTE Band 5 : 0.80 dBi LTE Band 12 : 0.80 dBi LTE Band 13 : 0.80 dBi LTE Band 26 : 0.80 dBi
<b>Type of Modulation</b>	QPSK / 16QAM

### 1.4 Modification of EUT

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



### 1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

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)
1.4	1850.7 ~ 1909.3	-	-	0.2259	-	-	0.2244
3	1851.5 ~ 1908.5	-	-	0.2280	-	-	0.2218
5	1852.5 ~ 1907.5	-	-	0.2301	-	-	0.2291
10	1855.0 ~ 1905.0	-	-	0.2333	-	-	0.2312
15	1857.5 ~ 1902.5	-	-	0.2366	-	-	0.2360
20	1860.0 ~ 1900.0	-	-	0.2388	-	-	0.2366
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)
1.4	1710.7 ~ 1754.3	-	-	0.2118	-	-	0.2198
3	1711.5 ~ 1753.5	-	-	0.2118	-	-	0.2198
5	1712.5 ~ 1752.5	-	-	0.2123	-	-	0.2193
10	1715.0 ~ 1750.0	-	-	0.2143	-	-	0.2153
15	1717.5 ~ 1747.5	-	-	0.2203	-	-	0.2198
20	1720.0 ~ 1745.0	-	-	0.2291	-	-	0.2286
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)
1.4	824.7 ~ 848.3	-	-	0.1334	-	-	0.1368
3	825.5 ~ 847.5	-	-	0.1330	-	-	0.1361
5	826.5 ~ 846.5	-	-	0.1288	-	-	0.1361
10	829.0 ~ 844.0	-	-	0.1321	-	-	0.1365
LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	-	-	0.1262	-	-	0.1282
3	700.5 ~ 714.5	-	-	0.1245	-	-	0.1259
5	701.5 ~ 713.5	-	-	0.1259	-	-	0.1271
10	704.0 ~ 711.0	-	-	0.1306	-	-	0.1303



LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	-	-	0.1337	-	-	0.1413
10	782.0	-	-	0.1416	-	-	0.1396
LTE Band 26		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)
1.4	824.7 ~ 848.3	-	-	0.1334	-	-	0.1368
3	825.5 ~ 847.5	-	-	0.1330	-	-	0.1361
5	826.5 ~ 846.5	-	-	0.1288	-	-	0.1361
10	829.0 ~ 844.0	-	-	0.1321	-	-	0.1365
15	831.5 ~ 841.5	-	-	0.1393	-	-	0.1390





### 1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International (Shenzhen) Inc.		
<b>Test Site Location</b>	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People’s Republic of China TEL: +86-755-33202398		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH01-SZ	CN1256	421272

### 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(L), 27(F), 27(H)
- 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

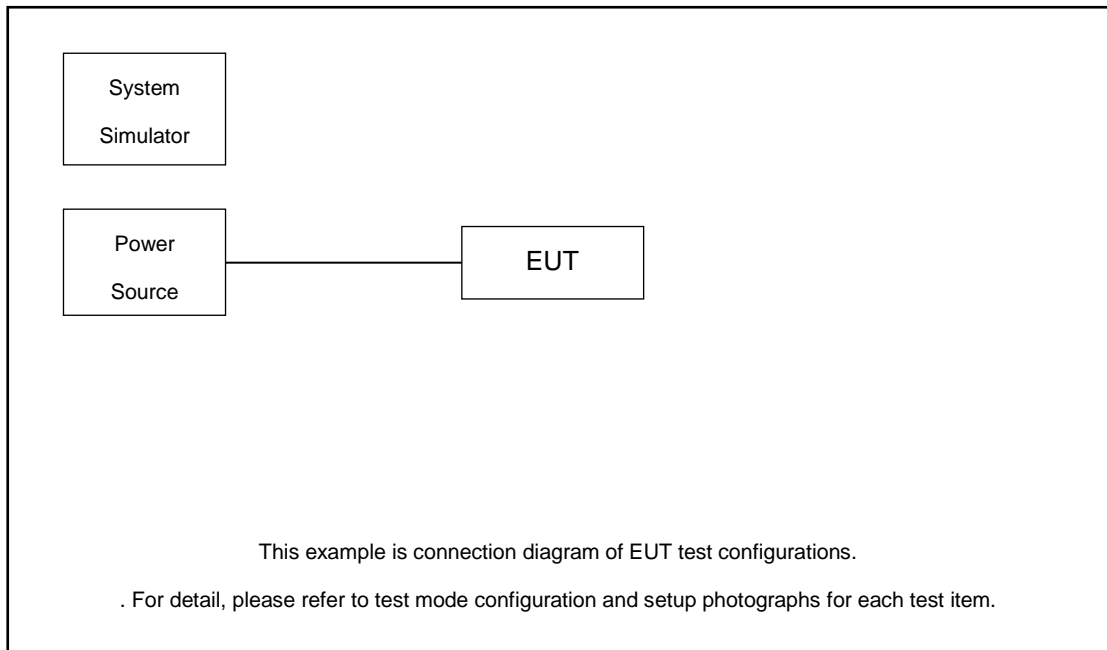
### 2.1 Test Mode

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
Max. Output Power	2	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
	5	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	-	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	-	v	v	v	v	v	v
E.R.P / E.I.R.P	2	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
	12	v	v	v	v	-	-	v	v	-	v			v	v	v
	13	-	-	v	v	-	-	v	v	-	v			v	v	v
	26	v	v	v	v	v	-	v	v	-	v			v	v	v
Radiated Spurious Emission	2	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
	12	v	v	v	v	-	-	v	v	-	v			v	v	v
	13	-	-	v	v	-	-	v	v	-	v			v	v	v
	26	v	v	v	v	v	-	v	v	-	v			v	v	v
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> <li>LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.</li> </ol>															

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	CMW500	Fcc DoC	N/A	Shielded, 1.5m



### 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 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 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

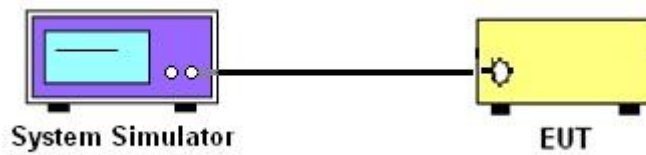
### 3 Conducted Test Items

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

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

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

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



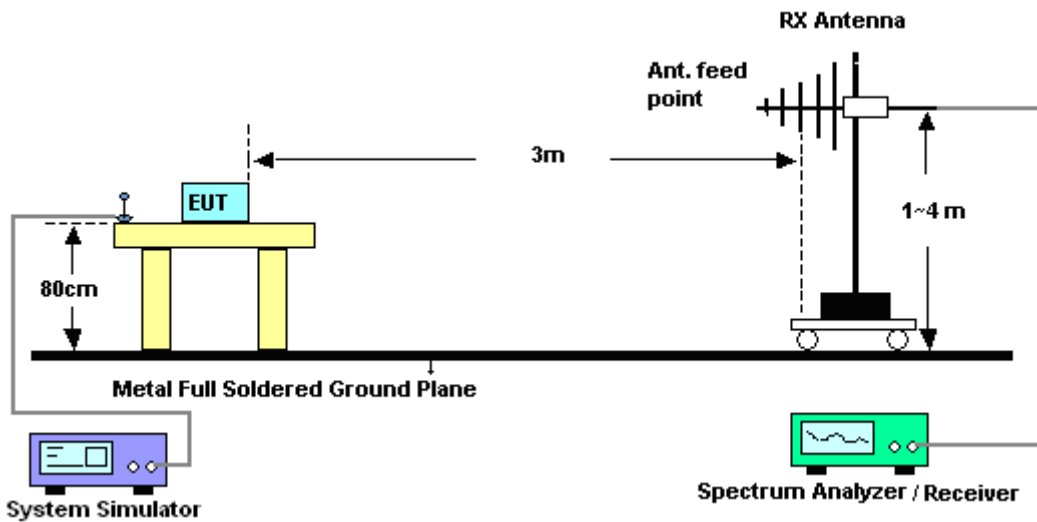
## 4 Radiated Test Items

### 4.1 Measuring Instruments

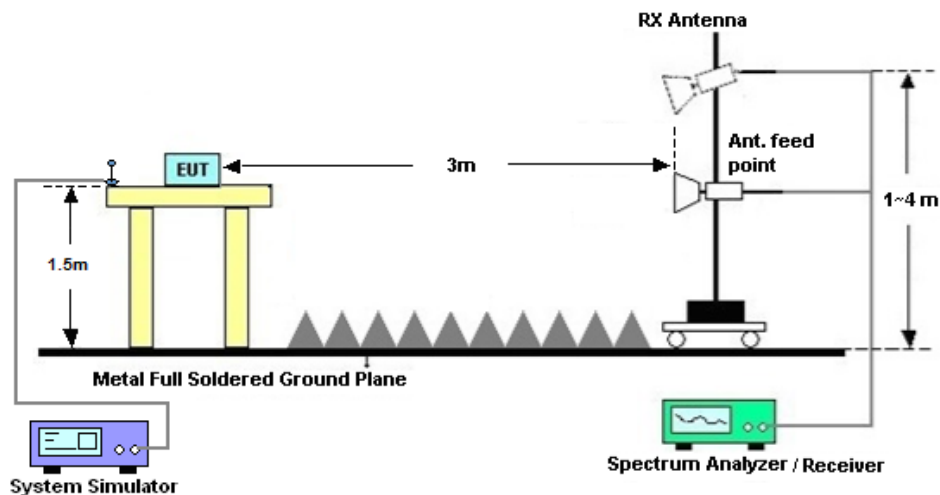
See list of measuring instruments of this test report.

### 4.2 Test Setup

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



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
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)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Aug. 30, 2018	Jun. 25, 2019	Aug. 29, 2019	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 22, 2018	Jun. 25, 2019	Dec. 21, 2019	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jun. 05, 2019	Jun. 25, 2019	Jun. 04, 2020	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jun. 28, 2018	Jun. 25, 2019	Jun. 27, 2019	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2019	Jun. 25, 2019	Mar. 29, 2020	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2019	Jun. 25, 2019	Apr. 18, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 OP P	1707137	1GHz~18GHz	Oct. 19, 2018	Jun. 25, 2019	Oct. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 17, 2018	Jun. 25, 2019	Jul. 16, 2019	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 25, 2019	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 25, 2019	NCR	Radiation (03CH01-SZ)

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))	2.5dB
---	-------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5dB
---	-------

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.0dB
---	-------



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]										
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest	
				L	M	H				
20	QPSK	1	0	0	0	15	22.36	22.37	22.78	
20		1	5	0	0	15	22.45	22.34	22.66	
20		3	0	0	0	15	22.59	22.44	22.71	
20		3	3	0	0	15	22.45	22.28	22.48	
20		6	0	0	0	15	22.41	22.27	22.42	
20		1	0	0	0	15	22.64	22.36	22.67	
20		1	5	0	0	15	22.58	22.27	22.56	
20		16-QAM	3	0	0	0	15	22.59	22.33	22.74
20			3	3	0	0	15	22.44	22.41	22.64
20			6	0	0	0	15	22.47	22.26	22.54
15	QPSK	1	0	0	0	11	22.54	22.25	22.74	
15		1	5	0	0	11	22.46	22.23	22.66	
15		3	0	0	0	11	22.48	22.24	22.54	
15		3	3	0	0	11	22.44	22.25	22.64	
15		6	0	0	0	11	22.41	22.23	22.49	
15		1	0	0	0	11	22.71	22.45	22.71	
15		1	5	0	0	11	22.49	22.23	22.69	
15		16-QAM	3	0	0	0	11	22.73	22.28	22.61
15	3		3	0	0	11	22.45	22.21	22.64	
15	6		0	0	0	11	22.52	22.41	22.71	



LTE Band 2 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
10	QPSK	1	0	0	0	7	22.51	22.35	22.61
10		1	5	0	0	7	22.50	22.30	22.54
10			3	0	0	7	22.48	22.38	22.54
10		3	3	0	0	7	22.56	22.31	22.68
10		6	0	0	0	7	21.98	21.73	21.99
10	16-QAM	1	0	0	0	7	22.54	22.47	22.56
10		1	5	0	0	7	22.64	22.41	22.41
10			3	0	0	7	22.51	22.16	22.56
10		3	3	0	0	7	22.43	22.21	22.45
10		6	0	0	0	7	21.48	21.29	21.42
5	QPSK	1	0	0	0	3	22.50	22.32	22.61
5		1	5	0	0	3	22.45	22.30	22.51
5			3	0	0	3	22.43	22.31	22.44
5		3	3	0	0	3	22.53	22.29	22.62
5		6	0	0	0	3	21.88	21.70	21.92
5	16-QAM	1	0	0	0	3	22.44	22.42	22.51
5			5	0	0	3	22.60	22.39	22.33
5		3	0	0	3	22.50	22.11	22.50	
5		3	3	0	0	3	22.39	22.21	22.43
5			6	0	0	3	21.42	21.23	21.40



LTE Band 2 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
3	QPSK	1	0	0	0	1	22.38	22.25	22.58
3		1	5	0	0	1	22.41	22.29	22.42
3		3	0	0	0	1	22.37	22.28	22.42
3		3	3	0	0	1	22.28	22.30	22.57
3		6	0	0	0	1	21.69	21.60	21.83
3	16-QAM	1	0	0	0	1	22.33	22.38	22.46
3		1	5	0	0	1	22.30	22.29	22.27
3		3	0	0	0	1	22.37	22.12	22.41
3		3	3	0	0	1	22.26	22.16	22.34
3		6	0	0	0	1	21.34	21.23	21.34
1.4	QPSK	1	0	0	0	0	22.46	22.29	22.54
1.4		1	5	0	0	0	22.44	22.20	22.44
1.4		3	0	0	0	0	22.40	22.32	22.38
1.4		3	3	0	0	0	22.27	22.24	22.53
1.4		6	0	0	0	0	21.69	21.61	21.86
1.4	16-QAM	1	0	0	0	0	22.30	22.34	22.51
1.4		1	5	0	0	0	22.32	22.38	22.32
1.4		3	0	0	0	0	22.41	22.10	22.51
1.4		3	3	0	0	0	22.31	22.20	22.40
1.4		6	0	0	0	0	21.32	21.22	21.32



LTE Band 4 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
20	QPSK	1	0	0	0	15	22.41	22.60	22.31
20		1	5	0	0	15	22.19	22.29	22.12
20		3	0	0	0	15	22.26	22.31	22.21
20		3	3	0	0	15	22.23	22.24	22.23
20		6	0	0	0	15	22.17	22.33	22.31
20	16-QAM	1	0	0	0	15	22.41	22.48	22.19
20		1	5	0	0	15	22.32	22.59	22.24
20		3	0	0	0	15	22.34	22.31	22.11
20		3	3	0	0	15	22.27	22.44	22.21
20		6	0	0	0	15	22.47	22.31	22.31
15	QPSK	1	0	0	0	11	22.23	21.94	22.43
15		1	5	0	0	11	22.15	21.92	22.35
15		3	0	0	0	11	22.17	21.93	22.23
15		3	3	0	0	11	22.13	21.94	22.33
15		6	0	0	0	11	22.10	21.92	22.18
15	16-QAM	1	0	0	0	11	22.40	22.14	22.40
15		1	5	0	0	11	22.18	21.92	22.38
15		3	0	0	0	11	22.42	21.97	22.30
15		3	3	0	0	11	22.14	21.90	22.33
15		6	0	0	0	11	22.21	22.10	22.40





LTE Band 4 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
10	QPSK	1	0	0	0	7	21.96	22.00	22.31
10		1	5	0	0	7	22.08	22.08	22.23
10			3	0	0	7	22.02	22.01	22.22
10		3	3	0	0	7	22.11	22.19	22.27
10		6	0	0	0	7	21.41	21.46	21.74
10	16-QAM	1	0	0	0	7	22.24	22.33	22.21
10		1	5	0	0	7	22.17	22.29	22.31
10			3	0	0	7	22.04	22.08	22.15
10		3	3	0	0	7	22.15	22.19	22.31
10		6	0	0	0	7	21.06	21.03	21.08
5	QPSK	1	0	0	0	3	22.08	22.11	22.27
5		1	5	0	0	3	22.02	22.07	22.25
5			3	0	0	3	21.45	21.64	21.66
5		3	3	0	0	3	21.43	21.49	21.71
5		6	0	0	0	3	21.34	21.41	21.68
5	16-QAM	1	0	0	0	3	22.17	22.31	22.47
5			5	0	0	3	22.14	22.28	22.41
5		3	0	0	3	21.54	21.54	21.69	
5		3	3	0	0	3	21.51	21.57	21.70
5			6	0	0	3	21.00	20.96	21.15



LTE Band 4 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
3	QPSK	1	0	0	0	1	22.05	22.09	22.26
3		1	5	0	0	1	21.97	22.02	22.23
3		3	0	0	0	1	21.40	21.63	21.59
3		3	3	0	0	1	21.40	21.39	21.64
3		6	0	0	0	1	21.30	21.39	21.63
3	16-QAM	1	0	0	0	1	22.15	22.23	22.42
3		1	5	0	0	1	22.09	22.21	22.41
3		3	0	0	0	1	21.48	21.55	21.65
3		3	3	0	0	1	21.41	21.49	21.61
3		6	0	0	0	1	21.01	20.91	21.07
1.4	QPSK	1	0	0	0	0	22.02	22.11	22.21
1.4		1	5	0	0	0	21.99	22.03	22.26
1.4		3	0	0	0	0	21.43	21.60	21.60
1.4		3	3	0	0	0	21.37	21.44	21.64
1.4		6	0	0	0	0	21.33	21.42	21.61
1.4	16-QAM	1	0	0	0	0	22.13	22.31	22.42
1.4		1	5	0	0	0	22.05	22.26	22.36
1.4		3	0	0	0	0	21.50	21.55	21.65
1.4		3	3	0	0	0	21.50	21.51	21.67
1.4		6	0	0	0	0	20.96	20.93	21.14



LTE Band 5 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
10	QPSK	1	0	0	0	7	22.65	22.55	22.77
10		1	5	0	0	7	22.75	22.59	22.96
10			3	0	0	7	22.62	22.55	22.76
10		3	3	0	0	7	22.57	22.59	22.73
10		6	0	0	0	7	22.08	21.88	22.12
10	16-QAM	1	0	0	0	7	22.87	22.75	22.95
10		1	5	0	0	7	22.88	22.83	22.90
10			3	0	0	7	22.70	22.55	22.80
10		3	3	0	0	7	22.65	22.63	22.62
10		6	0	0	0	7	21.69	21.54	21.66
5	QPSK	1	0	0	0	3	22.73	22.66	22.76
5		1	5	0	0	3	22.77	22.61	22.67
5			3	0	0	3	22.24	22.08	22.21
5		3	3	0	0	3	22.21	22.01	22.19
5		6	0	0	0	3	22.09	22.00	22.11
5	16-QAM	1	0	0	0	3	22.83	22.78	22.89
5			5	0	0	3	22.86	22.88	22.92
5		3	0	0	3	22.16	22.06	22.12	
5		3	3	0	0	3	22.09	22.12	22.21
5			6	0	0	3	21.60	21.64	21.70



LTE Band 5 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
3	QPSK	1	0	0	0	1	22.62	22.56	22.73
3		1	5	0	0	1	22.74	22.52	22.81
3			0	0	0	1	22.63	22.46	22.75
3			3	0	0	1	22.48	22.51	22.68
3		6	0	0	0	1	21.99	21.78	22.08
3	16-QAM	1	0	0	0	1	22.77	22.67	22.92
3		1	5	0	0	1	22.89	22.75	22.81
3			0	0	0	1	22.64	22.45	22.77
3			3	0	0	1	22.60	22.64	22.62
3		6	0	0	0	1	21.59	21.55	21.66
1.4	QPSK	1	0	0	0	0	22.58	22.45	22.67
1.4		1	5	0	0	0	22.69	22.56	22.83
1.4			0	0	0	0	22.58	22.45	22.66
1.4			3	0	0	0	22.49	22.51	22.68
1.4		6	0	0	0	0	22.04	21.79	22.11
1.4	16-QAM	1	0	0	0	0	22.81	22.68	22.86
1.4		1	5	0	0	0	22.84	22.83	22.91
1.4			0	0	0	0	22.71	22.51	22.74
1.4			3	0	0	0	22.60	22.61	22.52
1.4		6	0	0	0	0	21.65	21.50	21.56



LTE Band 12 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
10	QPSK	1	0	0	0	7	22.31	22.30	22.16
10		1	5	0	0	7	22.51	22.32	22.28
10		3	0	0	0	7	22.41	22.38	22.28
10		3	3	0	0	7	22.25	22.24	22.23
10		6	0	0	0	7	21.75	21.56	21.50
10	16-QAM	1	0	0	0	7	22.29	22.27	22.22
10		1	5	0	0	7	22.32	22.37	22.32
10		3	0	0	0	7	22.34	22.25	22.27
10		3	3	0	0	7	22.37	22.50	22.21
10		6	0	0	0	7	21.40	21.42	21.19
5	QPSK	1	0	0	0	3	22.23	22.28	22.15
5		1	5	0	0	3	22.23	22.35	22.09
5		3	0	0	0	3	22.29	21.79	21.59
5		3	3	0	0	3	22.14	21.64	21.56
5		6	0	0	0	3	21.68	21.82	21.61
5	16-QAM	1	0	0	0	3	22.22	22.29	22.35
5		1	5	0	0	3	22.24	22.35	22.39
5		3	0	0	0	3	22.32	21.77	21.65
5		3	3	0	0	3	22.31	21.92	21.56
5		6	0	0	0	3	21.32	21.33	21.11



LTE Band 12 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
3	QPSK	1	0	0	0	1	22.19	22.23	22.17
3		1	5	0	0	1	22.28	22.16	22.19
3		3	0	0	0	1	22.25	22.30	22.19
3		3	3	0	0	1	22.15	22.24	22.22
3		6	0	0	0	1	21.70	21.46	21.44
3	16-QAM	1	0	0	0	1	22.23	22.24	22.19
3		1	5	0	0	1	22.22	22.35	22.31
3		3	0	0	0	1	22.33	22.23	22.22
3		3	3	0	0	1	22.37	22.44	22.13
3		6	0	0	0	1	21.39	22.43	21.14
1.4	QPSK	1	0	0	0	0	22.19	22.29	22.13
1.4		1	5	0	0	0	22.22	22.20	22.14
1.4		3	0	0	0	0	22.29	22.36	22.23
1.4		3	3	0	0	0	22.23	22.21	22.23
1.4		6	0	0	0	0	21.73	21.52	21.44
1.4	16-QAM	1	0	0	0	0	22.28	22.22	22.20
1.4		1	5	0	0	0	22.33	22.33	22.22
1.4		3	0	0	0	0	22.31	22.21	22.27
1.4		3	3	0	0	0	22.38	22.43	22.11
1.4		6	0	0	0	0	21.39	22.37	21.17



LTE Band 13 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
10	QPSK	1	0	0	0	7	-	22.56	-
10		1	5	0	0	7		22.86	
10		3	0	0	0	7		22.54	
10		3	3	0	0	7		22.70	
10		6	0	0	0	7		22.03	
10	16-QAM	1	0	0	0	7		22.80	
10		1	5	0	0	7		22.78	
10		3	0	0	0	7		22.65	
10		3	3	0	0	7		22.59	
10		6	0	0	0	7		21.35	
5	QPSK	1	0	0	0	3	22.61	22.49	22.56
5		1	5	0	0	3	22.57	22.54	22.45
5		3	0	0	0	3	22.06	22.05	22.09
5		3	3	0	0	3	22.00	22.02	22.04
5		6	0	0	0	3	21.93	21.91	22.03
5	16-QAM	1	0	0	0	3	22.68	22.75	22.85
5		1	5	0	0	3	22.79	22.80	22.73
5		3	0	0	0	3	22.00	22.03	22.01
5		3	3	0	0	3	22.13	21.95	22.02
5		6	0	0	0	3	21.47	21.33	21.51



LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
15	QPSK	1	0	0	0	11	22.79	22.52	22.39
15		1	5	0	0	11	22.48	22.37	22.36
15		3	0	0	0	11	22.71	22.69	22.42
15		3	3	0	0	11	22.55	22.54	22.33
15		6	0	0	0	11	22.50	22.49	22.31
15	16-QAM	1	0	0	0	11	22.78	22.77	22.56
15		1	5	0	0	11	22.69	22.68	22.55
15		3	0	0	0	11	22.56	22.55	22.30
15		3	3	0	0	11	22.37	22.36	22.28
15		6	0	0	0	11	22.58	22.57	22.42
10	QPSK	1	0	0	0	7	22.40	22.49	22.20
10		1	5	0	0	7	22.41	22.39	22.15
10		3	0	0	0	7	22.32	22.56	22.35
10		3	3	0	0	7	22.42	22.48	22.22
10		6	0	0	0	7	21.76	21.89	21.78
10	16-QAM	1	0	0	0	7	22.66	22.59	22.67
10		1	5	0	0	7	22.59	22.70	22.61
10		3	0	0	0	7	22.40	22.40	22.42
10		3	3	0	0	7	22.35	22.52	22.33
10		6	0	0	0	7	21.27	21.24	21.33
5	QPSK	1	0	0	0	3	22.45	22.42	22.35
5		1	5	0	0	3	22.38	22.39	22.23
5		3	0	0	0	3	22.57	21.83	21.74
5		3	3	0	0	3	22.38	21.88	21.72
5		6	0	0	0	3	22.41	21.76	21.71
5	16-QAM	1	0	0	0	3	22.63	22.61	22.66
5		1	5	0	0	3	22.53	22.69	22.62
5		3	0	0	0	3	22.49	21.81	21.73
5		3	3	0	0	3	22.45	21.79	21.71
5		6	0	0	0	3	22.44	21.62	21.30





LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	Mod	RB Size	RB Offset	Index			Lowest	Middle	Highest
				L	M	H			
3	QPSK	1	0	0	0	1	22.38	22.47	22.33
3		1	5	0	0	1	22.40	22.33	22.36
3		3	0	0	0	1	22.56	22.59	22.36
3		3	3	0	0	1	22.36	22.46	22.28
3		6	0	0	0	1	22.40	22.46	22.28
3	16-QAM	1	0	0	0	1	22.57	22.69	22.52
3		1	5	0	0	1	22.60	22.66	22.53
3		3	0	0	0	1	22.40	22.52	22.31
3		3	3	0	0	1	22.46	22.26	22.25
3		6	0	0	0	1	22.55	22.57	22.43
1.4	QPSK	1	0	0	0	0	22.43	22.46	22.31
1.4		1	5	0	0	0	22.42	22.33	22.36
1.4		3	0	0	0	0	22.55	22.60	22.43
1.4		3	3	0	0	0	22.38	22.52	22.23
1.4		6	0	0	0	0	22.41	22.39	22.27
1.4	16-QAM	1	0	0	0	0	22.61	22.71	22.57
1.4		1	5	0	0	0	22.60	22.67	22.50
1.4		3	0	0	0	0	22.45	22.55	22.23
1.4		3	3	0	0	0	22.40	22.34	22.26
1.4		6	0	0	0	0	22.52	22.48	22.43



**ERP/EIRP**

LTE Band 2 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.46	22.29	22.54	22.38	22.25	22.58	22.53	22.29	22.62
Conducted Power (Watts)	0.1762	0.1694	0.1795	0.1730	0.1679	0.1811	0.1791	0.1694	0.1828
EIRP(dBm)	23.46	23.29	23.54	23.38	23.25	23.58	23.53	23.29	23.62
EIRP(Watts)	0.2218	0.2133	0.2259	0.2178	0.2113	0.2280	0.2254	0.2133	0.2301

LTE Band 2 (GT - LC = 1.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.56	22.31	22.68	22.54	22.25	22.74	22.36	22.37	22.78
Conducted Power (Watts)	0.1803	0.1702	0.1854	0.1795	0.1679	0.1879	0.1722	0.1726	0.1897
EIRP(dBm)	23.56	23.31	23.68	23.54	23.25	23.74	23.36	23.37	23.78
EIRP(Watts)	0.2270	0.2143	0.2333	0.2259	0.2113	0.2366	0.2168	0.2173	0.2388



LTE Band 2 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.30	22.34	22.51	22.33	22.38	22.46	22.60	22.39	22.33
Conducted Power (Watts)	0.1698	0.1714	0.1782	0.1710	0.1730	0.1762	0.1820	0.1734	0.1710
EIRP(dBm)	23.30	23.34	23.51	23.33	23.38	23.46	23.60	23.39	23.33
EIRP(Watts)	0.2138	0.2158	0.2244	0.2153	0.2178	0.2218	0.2291	0.2183	0.2153

LTE Band 2 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.64	22.41	22.41	22.73	22.28	22.61	22.59	22.33	22.74
Conducted Power (Watts)	0.1837	0.1742	0.1742	0.1875	0.1690	0.1824	0.1816	0.1710	0.1879
EIRP(dBm)	23.64	23.41	23.41	23.73	23.28	23.61	23.59	23.33	23.74
EIRP(Watts)	0.2312	0.2193	0.2193	0.2360	0.2128	0.2296	0.2286	0.2153	0.2366



LTE Band 4 (GT - LC = 1.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	21.99	22.03	22.26	22.05	22.09	22.26	22.08	22.11	22.27
Conducted Power (Watts)	0.1581	0.1596	0.1683	0.1603	0.1618	0.1683	0.1614	0.1626	0.1687
EIRP(dBm)	22.99	23.03	23.26	23.05	23.09	23.26	23.08	23.11	23.27
EIRP(Watts)	0.1991	0.2009	0.2118	0.2018	0.2037	0.2118	0.2032	0.2046	0.2123

LTE Band 4 (GT - LC = 1.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.96	22.00	22.31	22.23	21.94	22.43	22.41	22.60	22.31
Conducted Power (Watts)	0.1570	0.1585	0.1702	0.1671	0.1563	0.1750	0.1742	0.1820	0.1702
EIRP(dBm)	22.96	23.00	23.31	23.23	22.94	23.43	23.41	23.60	23.31
EIRP(Watts)	0.1977	0.1995	0.2143	0.2104	0.1968	0.2203	0.2193	0.2291	0.2143



LTE Band 4 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.13	22.31	22.42	22.15	22.23	22.42	22.14	22.28	22.41
Conducted Power (Watts)	0.1633	0.1702	0.1746	0.1641	0.1671	0.1746	0.1637	0.1690	0.1742
EIRP(dBm)	23.13	23.31	23.42	23.15	23.23	23.42	23.14	23.28	23.41
EIRP(Watts)	0.2056	0.2143	0.2198	0.2065	0.2104	0.2198	0.2061	0.2128	0.2193

LTE Band 4 (GT - LC = 1.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.24	22.33	22.21	22.42	21.97	22.30	22.32	22.59	22.24
Conducted Power (Watts)	0.1675	0.1710	0.1663	0.1746	0.1574	0.1698	0.1706	0.1816	0.1675
EIRP(dBm)	23.24	23.33	23.21	23.42	22.97	23.30	23.32	23.59	23.24
EIRP(Watts)	0.2109	0.2153	0.2094	0.2198	0.1982	0.2138	0.2148	0.2286	0.2109



LTE Band 12 (GT - LC = 0.80 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.29	22.36	22.23	22.25	22.30	22.19	22.23	22.35	22.09
Conducted Power (Watts)	0.1694	0.1722	0.1671	0.1679	0.1698	0.1656	0.1671	0.1718	0.1618
ERP(dBm)	20.94	21.01	20.88	20.90	20.95	20.84	20.88	21.00	20.74
ERP(Watts)	0.1242	0.1262	0.1225	0.1230	0.1245	0.1213	0.1225	0.1259	0.1186

LTE Band 12 (GT - LC = 0.80 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.51	22.32	22.28
Conducted Power (Watts)	0.1782	0.1706	0.1690
ERP(dBm)	21.16	20.97	20.93
ERP(Watts)	0.1306	0.1250	0.1239



LTE Band 12 (GT - LC = 0.80 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.38	22.43	22.11	22.22	22.35	22.31	22.24	22.35	22.39
Conducted Power (Watts)	0.1730	0.1750	0.1626	0.1667	0.1718	0.1702	0.1675	0.1718	0.1734
ERP(dBm)	21.03	21.08	20.76	20.87	21.00	20.96	20.89	21.00	21.04
ERP(Watts)	0.1268	0.1282	0.1191	0.1222	0.1259	0.1247	0.1227	0.1259	0.1271

LTE Band 12 (GT - LC = 0.80 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.37	22.50	22.21
Conducted Power (Watts)	0.1726	0.1778	0.1663
ERP(dBm)	21.02	21.15	20.86
ERP(Watts)	0.1265	0.1303	0.1219



LTE Band 13 (GT - LC = 0.80 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.61	22.49	22.56		22.86	-
Conducted Power (Watts)	0.1824	0.1774	0.1803		0.1932	-
ERP(dBm)	21.26	21.14	21.21		21.51	-
ERP(Watts)	0.1337	0.1300	0.1321		0.1416	-

LTE Band 13 (GT - LC = 0.80 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.68	22.75	22.85		22.80	-
Conducted Power (Watts)	0.1854	0.1884	0.1928		0.1905	-
ERP(dBm)	21.33	21.40	21.50		21.45	-
ERP(Watts)	0.1358	0.1380	0.1413		0.1396	-





LTE Band 26 (GT - LC = 0.80 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.55	22.60	22.43	22.56	22.59	22.36	22.45	22.42	22.35
Conducted Power (Watts)	0.1799	0.1820	0.1750	0.1803	0.1816	0.1722	0.1758	0.1746	0.1718
ERP(dBm)	21.20	21.25	21.08	21.21	21.24	21.01	21.10	21.07	21.00
ERP(Watts)	0.1318	0.1334	0.1282	0.1321	0.1330	0.1262	0.1288	0.1279	0.1259

LTE Band 26 (GT - LC = 0.80 dB) QPSK						
Bandwidth	10M			15M		
Channel	26840	26915	26990	26865	26915	26965
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	829	836.5	844	831.5	836.5	841.5
(MHz)						
Conducted Power (dBm)	22.32	22.56	22.35	22.79	22.52	22.39
Conducted Power (Watts)	0.1706	0.1803	0.1718	0.1901	0.1786	0.1734
ERP(dBm)	20.97	21.21	21.00	21.44	21.17	21.04
ERP(Watts)	0.1250	0.1321	0.1259	0.1393	0.1309	0.1271



LTE Band 26 (GT - LC = 0.80 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.61	22.71	22.57	22.57	22.69	22.52	22.53	22.69	22.62
Conducted Power (Watts)	0.1824	0.1866	0.1807	0.1807	0.1858	0.1786	0.1791	0.1858	0.1828
ERP(dBm)	21.26	21.36	21.22	21.22	21.34	21.17	21.18	21.34	21.27
ERP(Watts)	0.1337	0.1368	0.1324	0.1324	0.1361	0.1309	0.1312	0.1361	0.1340

LTE Band 26 (GT - LC = 0.80 dB) 16QAM						
Bandwidth	10M			15M		
Channel	26840	26915	26990	26865	26915	26965
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	829	836.5	844	831.5	836.5	841.5
(MHz)						
Conducted Power (dBm)	22.59	22.70	22.61	22.78	22.77	22.56
Conducted Power (Watts)	0.1816	0.1862	0.1824	0.1897	0.1892	0.1803
ERP(dBm)	21.24	21.35	21.26	21.43	21.42	21.21
ERP(Watts)	0.1330	0.1365	0.1337	0.1390	0.1387	0.1321



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

LTE Band 2 / 1.4MHz / 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	3700.32	-53.14	-13	-40.14	-75.74	-59.90	5.82	12.58	H
	5550.48	-57.89	-13	-44.89	-81.80	-63.61	7.28	13.00	H
	7400.64	-55.83	-13	-42.83	-82.17	-58.99	8.32	11.48	H
	3700.32	-48.48	-13	-35.48	-72.77	-55.24	5.82	12.58	V
	5550.48	-57.81	-13	-44.81	-82.15	-63.53	7.28	13.00	V
	7400.64	-55.98	-13	-42.98	-82.29	-59.14	8.32	11.48	V
Middle	3758.92	-51.73	-13	-38.73	-73.67	-58.48	5.85	12.60	H
	5638.38	-58.00	-13	-45.00	-81.62	-63.80	7.30	13.10	H
	7517.84	-56.32	-13	-43.32	-82.25	-59.47	8.35	11.50	H
	3758.92	-48.41	-13	-35.41	-73.51	-55.16	5.85	12.60	V
	5638.38	-57.29	-13	-44.29	-81.06	-63.09	7.30	13.10	V
	7517.84	-56.18	-13	-43.18	-82.1	-59.33	8.35	11.50	V
Highest	3817.52	-54.25	-13	-41.25	-76.63	-60.99	5.88	12.62	H
	5726.28	-57.55	-13	-44.55	-81.67	-63.36	7.32	13.13	H
	7635.04	-56.46	-13	-43.46	-81.98	-59.62	8.38	11.54	H
	3817.52	-52.53	-13	-39.53	-76.51	-59.27	5.88	12.62	V
	5726.28	-57.04	-13	-44.04	-81.64	-62.85	7.32	13.13	V
	7635.04	-55.33	-13	-42.33	-81.53	-58.49	8.38	11.54	V

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



LTE Band 2 / 3MHz / 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	3700.48	-52.86	-13	-39.86	-75.46	-59.62	5.82	12.58	H
	5550.72	-57.45	-13	-44.45	-81.36	-63.17	7.28	13.00	H
	7400.96	-55.56	-13	-42.56	-81.90	-58.72	8.32	11.48	H
	3700.48	-47.72	-13	-34.72	-72.01	-54.48	5.82	12.58	V
	5550.72	-57.15	-13	-44.15	-81.49	-62.87	7.28	13.00	V
	7400.96	-55.71	-13	-42.71	-82.02	-58.87	8.32	11.48	V
Middle	3757.48	-51.23	-13	-38.23	-73.17	-57.98	5.85	12.60	H
	5636.22	-57.54	-13	-44.54	-81.16	-63.34	7.30	13.10	H
	7514.96	-56.27	-13	-43.27	-82.21	-59.42	8.35	11.50	H
	3757.48	-49.89	-13	-36.89	-74.99	-56.64	5.85	12.60	V
	5636.22	-57.68	-13	-44.68	-81.45	-63.48	7.30	13.10	V
	7514.96	-56.15	-13	-43.15	-82.08	-59.30	8.35	11.50	V
Highest	3814.48	-50.64	-13	-37.64	-73.02	-57.38	5.88	12.62	H
	5721.72	-57.51	-13	-44.51	-81.63	-63.32	7.32	13.13	H
	7628.96	-55.87	-13	-42.87	-81.39	-59.03	8.38	11.54	H
	3814.48	-45.53	-13	-32.53	-69.51	-52.27	5.88	12.62	V
	5721.72	-56.69	-13	-43.69	-81.29	-62.50	7.32	13.13	V
	7628.96	-55.36	-13	-42.36	-81.56	-58.52	8.38	11.54	V

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



LTE Band 2 / 5MHz / 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	3700.68	-47.76	-13	-34.76	-70.36	-54.52	5.82	12.58	H
	5551.02	-57.89	-13	-44.89	-81.80	-63.61	7.28	13.00	H
	7401.36	-56.00	-13	-43.00	-82.34	-59.16	8.32	11.48	H
	3700.68	-44.48	-13	-31.48	-68.77	-51.24	5.82	12.58	V
	5551.02	-57.84	-13	-44.84	-82.18	-63.56	7.28	13.00	V
	7401.36	-56.04	-13	-43.04	-82.35	-59.20	8.32	11.48	V
Middle	3755.68	-52.44	-13	-39.44	-74.38	-59.19	5.85	12.60	H
	5633.52	-58.21	-13	-45.21	-81.83	-64.01	7.30	13.10	H
	7511.36	-56.09	-13	-43.09	-82.03	-59.24	8.35	11.50	H
	3755.68	-48.41	-13	-35.41	-73.51	-55.16	5.85	12.60	V
	5633.52	-57.82	-13	-44.82	-81.59	-63.62	7.30	13.10	V
	7511.36	-56.46	-13	-43.46	-82.39	-59.61	8.35	11.50	V
Highest	3810.68	-50.88	-13	-37.88	-73.16	-57.62	5.88	12.62	H
	5716.02	-57.66	-13	-44.66	-81.68	-63.47	7.32	13.13	H
	7621.36	-56.38	-13	-43.38	-81.94	-59.54	8.38	11.54	H
	3810.68	-47.01	-13	-34.01	-70.93	-53.75	5.88	12.62	V
	5716.02	-57.03	-13	-44.03	-81.47	-62.84	7.32	13.13	V
	7621.36	-55.88	-13	-42.88	-81.78	-59.04	8.38	11.54	V

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



LTE Band 2 / 10MHz / 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	3701.18	-53.48	-13	-40.48	-76.08	-60.24	5.82	12.58	H
	5551.77	-57.76	-13	-44.76	-81.67	-63.48	7.28	13.00	H
	7402.36	-55.59	-13	-42.59	-81.93	-58.75	8.32	11.48	H
	3701.18	-44.59	-13	-31.59	-68.88	-51.35	5.82	12.58	V
	5551.77	-57.63	-13	-44.63	-81.97	-63.35	7.28	13.00	V
	7402.36	-56.06	-13	-43.06	-82.37	-59.22	8.32	11.48	V
Middle	3751.18	-53.31	-13	-40.31	-75.25	-60.06	5.85	12.60	H
	5626.77	-58.29	-13	-45.29	-81.99	-64.09	7.30	13.10	H
	7502	-56.11	-13	-43.11	-82.11	-59.26	8.35	11.50	H
	3751.18	-44.56	-13	-31.56	-69.66	-51.31	5.85	12.60	V
	5626.77	-57.54	-13	-44.54	-81.74	-63.34	7.30	13.10	V
	7502	-56.12	-13	-43.12	-82.11	-59.27	8.35	11.50	V
Highest	3801.18	-50.24	-13	-37.24	-72.52	-56.98	5.88	12.62	H
	5701.77	-57.65	-13	-44.65	-81.67	-63.46	7.32	13.13	H
	7602.36	-56.36	-13	-43.36	-81.97	-59.52	8.38	11.54	H
	3801.18	-46.36	-13	-33.36	-70.28	-53.10	5.88	12.62	V
	5701.77	-57.34	-13	-44.34	-81.78	-63.15	7.32	13.13	V
	7602.36	-56.53	-13	-43.53	-82.14	-59.69	8.38	11.54	V

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



LTE Band 2 / 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	3701.68	-51.30	-13	-38.30	-73.90	-58.06	5.82	12.58	H
	5552.52	-57.91	-13	-44.91	-81.82	-63.63	7.28	13.00	H
	7403.36	-55.90	-13	-42.90	-82.24	-59.06	8.32	11.48	H
	3701.68	-46.59	-13	-33.59	-70.88	-53.35	5.82	12.58	V
	5552.52	-57.32	-13	-44.32	-81.66	-63.04	7.28	13.00	V
	7403.36	-56.29	-13	-43.29	-82.6	-59.45	8.32	11.48	V
Middle	3746.68	-50.22	-13	-37.22	-72.16	-56.97	5.85	12.60	H
	5620.02	-57.82	-13	-44.82	-81.52	-63.62	7.30	13.10	H
	7493.36	-56.45	-13	-43.45	-82.45	-59.60	8.35	11.50	H
	3746.68	-45.97	-13	-32.97	-71.07	-52.72	5.85	12.60	V
	5620.02	-57.53	-13	-44.53	-81.73	-63.33	7.30	13.10	V
	7493.36	-56.26	-13	-43.26	-82.25	-59.41	8.35	11.50	V
Highest	3791.68	-51.53	-13	-38.53	-74.36	-58.27	5.88	12.62	H
	5687.52	-57.22	-13	-44.22	-81.14	-63.03	7.32	13.13	H
	7583.36	-56.43	-13	-43.43	-82.11	-59.59	8.38	11.54	H
	3791.68	-49.75	-13	-36.75	-74.07	-56.49	5.88	12.62	V
	5687.52	-57.42	-13	-44.42	-81.69	-63.23	7.32	13.13	V
	7583.36	-56.58	-13	-43.58	-82.26	-59.74	8.38	11.54	V

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



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	3702.18	-53.01	-13	-40.01	-75.61	-59.77	5.82	12.58	H
	5553.27	-58.13	-13	-45.13	-82.04	-63.85	7.28	13.00	H
	7404.36	-56.08	-13	-43.08	-82.42	-59.24	8.32	11.48	H
	3702.18	-48.97	-13	-35.97	-73.26	-55.73	5.82	12.58	V
	5553.27	-57.53	-13	-44.53	-81.87	-63.25	7.28	13.00	V
	7404.36	-56.14	-13	-43.14	-82.45	-59.30	8.32	11.48	V
Middle	3742.18	-52.13	-13	-39.13	-74.62	-58.88	5.85	12.60	H
	5613.27	-58.26	-13	-45.26	-82.04	-64.06	7.30	13.10	H
	7484.36	-56.81	-13	-43.81	-82.88	-59.96	8.35	11.50	H
	3742.18	-50.52	-13	-37.52	-75.02	-57.27	5.85	12.60	V
	5613.27	-57.29	-13	-44.29	-81.92	-63.09	7.30	13.10	V
	7484.36	-56.87	-13	-43.87	-82.92	-60.02	8.35	11.50	V
Highest	3782.18	-52.08	-13	-39.08	-74.91	-58.82	5.88	12.62	H
	5673.27	-58.13	-13	-45.13	-81.95	-63.94	7.32	13.13	H
	7564.36	-56.93	-13	-43.93	-82.68	-60.09	8.38	11.54	H
	3782.18	-50.66	-13	-37.66	-74.98	-57.40	5.88	12.62	V
	5673.27	-57.70	-13	-44.70	-81.81	-63.51	7.32	13.13	V
	7564.36	-56.76	-13	-43.76	-82.5	-59.92	8.38	11.54	V

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





LTE Band 4 / 1.4MHz / 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	3420.32	-51.17	-13	-38.17	-71.32	-58.05	5.60	12.48	H
	5130.48	-58.38	-13	-45.38	-81.50	-64.06	7.10	12.78	H
	6840.64	-48.76	-13	-35.76	-73.76	-52.15	8.38	11.77	H
	3420.32	-45.06	-13	-32.06	-66.41	-51.94	5.60	12.48	V
	5130.48	-57.57	-13	-44.57	-81.43	-63.25	7.10	12.78	V
	6840.64	-50.41	-13	-37.41	-77.24	-53.80	8.38	11.77	V
Middle	3463.74	-48.13	-13	-35.13	-69.67	-54.98	5.65	12.50	H
	5195.61	-58.11	-13	-45.11	-81.71	-63.78	7.13	12.80	H
	6927.48	-54.12	-13	-41.12	-79.27	-57.52	8.40	11.80	H
	3463.74	-44.33	-13	-31.33	-65.67	-51.18	5.65	12.50	V
	5195.61	-57.82	-13	-44.82	-81.69	-63.49	7.13	12.80	V
	6927.48	-54.59	-13	-41.59	-80.66	-57.99	8.40	11.80	V
Highest	3507.52	-45.69	-13	-32.69	-67.62	-52.53	5.68	12.52	H
	5261.28	-57.71	-13	-44.71	-81.55	-63.38	7.15	12.82	H
	7015.04	-55.63	-13	-42.63	-80.96	-59.06	8.42	11.85	H
	3507.52	-41.52	-13	-28.52	-63.85	-48.36	5.68	12.52	V
	5261.28	-58.17	-13	-45.17	-81.89	-63.84	7.15	12.82	V
	7015.04	-55.82	-13	-42.82	-81.5	-59.25	8.42	11.85	V

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



LTE Band 4 / 3MHz / 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	3420.48	-52.22	-13	-39.22	-72.37	-59.10	5.60	12.48	H
	5130.72	-58.51	-13	-45.51	-81.63	-64.19	7.10	12.78	H
	6840.96	-53.74	-13	-40.74	-78.74	-57.13	8.38	11.77	H
	3420.48	-45.24	-13	-32.24	-66.59	-52.12	5.60	12.48	V
	5130.72	-57.82	-13	-44.82	-81.68	-63.50	7.10	12.78	V
	6840.96	-49.14	-13	-36.14	-75.97	-52.53	8.38	11.77	V
Middle	3462.48	-48.20	-13	-35.20	-69.74	-55.05	5.65	12.50	H
	5193.72	-58.06	-13	-45.06	-81.66	-63.73	7.13	12.80	H
	6924.96	-54.51	-13	-41.51	-79.66	-57.91	8.40	11.80	H
	3462.48	-44.38	-13	-31.38	-65.72	-51.23	5.65	12.50	V
	5193.72	-58.03	-13	-45.03	-81.9	-63.70	7.13	12.80	V
	6924.96	-54.74	-13	-41.74	-80.81	-58.14	8.40	11.80	V
Highest	3504.48	-45.69	-13	-32.69	-66.82	-52.53	5.68	12.52	H
	5256.72	-57.69	-13	-44.69	-81.47	-63.36	7.15	12.82	H
	7008.96	-54.64	-13	-41.64	-79.90	-58.07	8.42	11.85	H
	3504.48	-40.61	-13	-27.61	-63.28	-47.45	5.68	12.52	V
	5256.72	-58.16	-13	-45.16	-81.91	-63.83	7.15	12.82	V
	7008.96	-56.16	-13	-43.16	-81.6	-59.59	8.42	11.85	V

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



LTE Band 4 / 5MHz / 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	3420.68	-52.66	-13	-39.66	-72.81	-59.54	5.60	12.48	H
	5131.02	-59.06	-13	-46.06	-82.18	-64.74	7.10	12.78	H
	6841.36	-50.33	-13	-37.33	-75.33	-53.72	8.38	11.77	H
	3420.68	-45.70	-13	-32.70	-67.05	-52.58	5.60	12.48	V
	5131.02	-58.22	-13	-45.22	-82.08	-63.90	7.10	12.78	V
	6841.36	-47.54	-13	-34.54	-74.37	-50.93	8.38	11.77	V
Middle	3460.68	-48.00	-13	-35.00	-69.54	-54.85	5.65	12.50	H
	5191.02	-58.77	-13	-45.77	-82.37	-64.44	7.13	12.80	H
	6921.36	-55.12	-13	-42.12	-80.23	-58.52	8.40	11.80	H
	3460.68	-45.99	-13	-32.99	-67.33	-52.84	5.65	12.50	V
	5191.02	-58.46	-13	-45.46	-82.33	-64.13	7.13	12.80	V
	6921.36	-50.88	-13	-37.88	-77.09	-54.28	8.40	11.80	V
Highest	3500.68	-46.37	-13	-33.37	-67.50	-53.21	5.68	12.52	H
	5251.02	-58.08	-13	-45.08	-81.86	-63.75	7.15	12.82	H
	7001.36	-55.10	-13	-42.10	-80.37	-58.53	8.42	11.85	H
	3500.68	-43.53	-13	-30.53	-66.2	-50.37	5.68	12.52	V
	5251.02	-58.89	-13	-45.89	-82.64	-64.56	7.15	12.82	V
	7001.36	-56.17	-13	-43.17	-81.62	-59.60	8.42	11.85	V

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



LTE Band 4 / 10MHz / 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	3421.18	-52.86	-13	-39.86	-73.01	-59.74	5.60	12.48	H
	5131.77	-58.73	-13	-45.73	-81.85	-64.41	7.10	12.78	H
	6842.36	-52.05	-13	-39.05	-77.05	-55.44	8.38	11.77	H
	3421.18	-47.07	-13	-34.07	-68.42	-53.95	5.60	12.48	V
	5131.77	-57.89	-13	-44.89	-81.75	-63.57	7.10	12.78	V
	6842.36	-49.34	-13	-36.34	-76.17	-52.73	8.38	11.77	V
Middle	3456.18	-47.61	-13	-34.61	-68.35	-54.46	5.65	12.50	H
	5184.27	-58.94	-13	-45.94	-82.42	-64.61	7.13	12.80	H
	6912.36	-54.26	-13	-41.26	-79.37	-57.66	8.40	11.80	H
	3456.18	-44.70	-13	-31.70	-66.38	-51.55	5.65	12.50	V
	5184.27	-58.07	-13	-45.07	-81.94	-63.74	7.13	12.80	V
	6912.36	-54.60	-13	-41.60	-80.81	-58.00	8.40	11.80	V
Highest	3491.18	-48.15	-13	-35.15	-69.28	-54.99	5.68	12.52	H
	5236.77	-58.54	-13	-45.54	-82.26	-64.21	7.15	12.82	H
	6982.36	-56.29	-13	-43.29	-81.52	-59.72	8.42	11.85	H
	3491.18	-42.94	-13	-29.94	-65.61	-49.78	5.68	12.52	V
	5236.77	-58.21	-13	-45.21	-82	-63.88	7.15	12.82	V
	6982.36	-56.06	-13	-43.06	-81.66	-59.49	8.42	11.85	V

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



LTE Band 4 / 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	3421.68	-52.33	-13	-39.33	-72.48	-59.21	5.60	12.48	H
	5132.52	-58.42	-13	-45.42	-81.54	-64.10	7.10	12.78	H
	6843.36	-50.72	-13	-37.72	-75.72	-54.11	8.38	11.77	H
	3421.68	-55.82	-13	-42.82	-77.17	-62.70	5.60	12.48	V
	5132.52	-57.61	-13	-44.61	-81.47	-63.29	7.10	12.78	V
	6843.36	-47.18	-13	-34.18	-74.01	-50.57	8.38	11.77	V
Middle	3451.68	-50.47	-13	-37.47	-71.21	-57.32	5.65	12.50	H
	5177.52	-57.88	-13	-44.88	-81.36	-63.55	7.13	12.80	H
	6903.36	-54.68	-13	-41.68	-79.76	-58.08	8.40	11.80	H
	3451.68	-45.91	-13	-32.91	-67.59	-52.76	5.65	12.50	V
	5177.52	-57.83	-13	-44.83	-81.7	-63.50	7.13	12.80	V
	6903.36	-54.05	-13	-41.05	-80.41	-57.45	8.40	11.80	V
Highest	3481.68	-56.43	-13	-43.43	-77.76	-63.27	5.68	12.52	H
	5222.52	-57.92	-13	-44.92	-81.58	-63.59	7.15	12.82	H
	6963.36	-55.27	-13	-42.27	-80.47	-58.70	8.42	11.85	H
	3481.68	-42.17	-13	-29.17	-64.17	-49.01	5.68	12.52	V
	5222.52	-58.16	-13	-45.16	-81.99	-63.83	7.15	12.82	V
	6963.36	-55.72	-13	-42.72	-81.47	-59.15	8.42	11.85	V

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



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	3422.18	-51.45	-13	-38.45	-71.60	-58.33	5.60	12.48	H
	5133.27	-58.15	-13	-45.15	-81.27	-63.83	7.10	12.78	H
	6844.36	-55.83	-13	-42.83	-80.83	-59.22	8.38	11.77	H
	3422.18	-56.76	-13	-43.76	-78.11	-63.64	5.60	12.48	V
	5133.27	-57.85	-13	-44.85	-81.71	-63.53	7.10	12.78	V
	6844.36	-48.42	-13	-35.42	-75.25	-51.81	8.38	11.77	V
Middle	3447.18	-53.05	-13	-40.05	-73.79	-59.90	5.65	12.50	H
	5170.77	-58.15	-13	-45.15	-81.51	-63.82	7.13	12.80	H
	6894.36	-54.31	-13	-41.31	-79.40	-57.71	8.40	11.80	H
	3447.18	-45.02	-13	-32.02	-66.7	-51.87	5.65	12.50	V
	5170.77	-57.71	-13	-44.71	-81.57	-63.38	7.13	12.80	V
	6894.36	-54.48	-13	-41.48	-80.85	-57.88	8.40	11.80	V
Highest	3472.18	-47.27	-13	-34.27	-68.81	-54.11	5.68	12.52	H
	5208.27	-58.03	-13	-45.03	-81.69	-63.70	7.15	12.82	H
	6944.36	-52.77	-13	-39.77	-77.95	-56.20	8.42	11.85	H
	3472.18	-43.29	-13	-30.29	-64.63	-50.13	5.68	12.52	V
	5208.27	-58.22	-13	-45.22	-82.05	-63.89	7.15	12.82	V
	6944.36	-54.52	-13	-41.52	-80.43	-57.95	8.42	11.85	V

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



LTE Band 12 / 1.4MHz / 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	1398.14	-49.49	-13	-36.49	-59.42	-52.72	3.98	9.36	H
	2097.21	-61.05	-13	-48.05	-78.22	-64.60	4.85	10.55	H
	2796.28	-60.20	-13	-47.20	-78.74	-65.13	5.50	12.58	H
	1398.14	-49.45	-13	-36.45	-60.41	-52.68	3.98	9.36	V
	2097.21	-61.55	-13	-48.55	-78.51	-65.10	4.85	10.55	V
	2796.28	-59.48	-13	-46.48	-78.78	-64.41	5.50	12.58	V
Middle	1413.74	-48.84	-13	-35.84	-58.76	-52.09	4.00	9.40	H
	2120.61	-61.45	-13	-48.45	-78.71	-65.02	4.88	10.60	H
	2827.48	-60.20	-13	-47.20	-78.80	-65.13	5.52	12.60	H
	1413.74	-50.49	-13	-37.49	-61.47	-53.74	4.00	9.40	V
	2120.61	-61.68	-13	-48.68	-78.71	-65.25	4.88	10.60	V
	2827.48	-59.04	-13	-46.04	-78.45	-63.97	5.52	12.60	V
Highest	1429.34	-51.83	-13	-38.83	-61.83	-55.00	4.10	9.42	H
	2144.01	-61.30	-13	-48.30	-78.65	-64.88	4.90	10.63	H
	2858.68	-60.33	-13	-47.33	-79.04	-65.25	5.55	12.62	H
	1429.34	-53.97	-13	-40.97	-64.97	-57.14	4.10	9.42	V
	2144.01	-61.54	-13	-48.54	-78.64	-65.12	4.90	10.63	V
	2858.68	-58.95	-13	-45.95	-78.57	-63.87	5.55	12.62	V

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



LTE Band 12 / 3MHz / 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	1398.3	-48.68	-13	-35.68	-58.61	-51.91	3.98	9.36	H
	2097.45	-61.47	-13	-48.47	-78.64	-65.02	4.85	10.55	H
	2796.6	-60.34	-13	-47.34	-78.88	-65.27	5.50	12.58	H
	1398.3	-51.27	-13	-38.27	-62.23	-54.50	3.98	9.36	V
	2097.45	-61.22	-13	-48.22	-78.18	-64.77	4.85	10.55	V
	2796.6	-59.28	-13	-46.28	-78.58	-64.21	5.50	12.58	V
Middle	1412.3	-49.40	-13	-36.40	-59.32	-52.65	4.00	9.40	H
	2118.45	-61.40	-13	-48.40	-78.66	-64.97	4.88	10.60	H
	2824.6	-60.21	-13	-47.21	-78.81	-65.14	5.52	12.60	H
	1412.3	-50.12	-13	-37.12	-61.10	-53.37	4.00	9.40	V
	2118.45	-60.54	-13	-47.54	-77.57	-64.11	4.88	10.60	V
	2824.6	-59.26	-13	-46.26	-78.67	-64.19	5.52	12.60	V
Highest	1426.3	-53.47	-13	-40.47	-63.47	-56.64	4.10	9.42	H
	2139.45	-61.26	-13	-48.26	-78.61	-64.84	4.90	10.63	H
	2852.6	-60.11	-13	-47.11	-78.82	-65.03	5.55	12.62	H
	1426.3	-53.51	-13	-40.51	-64.51	-56.68	4.10	9.42	V
	2139.45	-61.18	-13	-48.18	-78.28	-64.76	4.90	10.63	V
	2852.6	-59.28	-13	-46.28	-78.90	-64.20	5.55	12.62	V

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





LTE Band 12 / 5MHz / 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	1398.5	-46.78	-13	-33.78	-56.71	-50.01	3.98	9.36	H
	2097.75	-61.42	-13	-48.42	-78.59	-64.97	4.85	10.55	H
	2797	-60.48	-13	-47.48	-79.02	-65.41	5.50	12.58	H
	1398.5	-50.60	-13	-37.60	-61.56	-53.83	3.98	9.36	V
	2097.75	-61.63	-13	-48.63	-78.59	-65.18	4.85	10.55	V
	2797	-59.63	-13	-46.63	-78.93	-64.56	5.50	12.58	V
Middle	1410.5	-48.96	-13	-35.96	-58.88	-52.21	4.00	9.40	H
	2115.75	-60.59	-13	-47.59	-77.85	-64.16	4.88	10.60	H
	2821	-60.07	-13	-47.07	-78.67	-65.00	5.52	12.60	H
	1410.5	-50.82	-13	-37.82	-61.80	-54.07	4.00	9.40	V
	2115.75	-61.30	-13	-48.30	-78.33	-64.87	4.88	10.60	V
	2821	-59.11	-13	-46.11	-78.52	-64.04	5.52	12.60	V
Highest	1422.5	-51.26	-13	-38.26	-61.26	-54.43	4.10	9.42	H
	2133.75	-61.45	-13	-48.45	-78.80	-65.03	4.90	10.63	H
	2845	-60.19	-13	-47.19	-78.90	-65.11	5.55	12.62	H
	1422.5	-53.12	-13	-40.12	-64.12	-56.29	4.10	9.42	V
	2133.75	-61.28	-13	-48.28	-78.38	-64.86	4.90	10.63	V
	2845	-59.06	-13	-46.06	-78.68	-63.98	5.55	12.62	V

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



LTE Band 12 / 10MHz / 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	1399	-46.07	-13	-33.07	-56.00	-49.30	3.98	9.36	H
	2098.5	-61.26	-13	-48.26	-78.43	-64.81	4.85	10.55	H
	2798	-60.22	-13	-47.22	-78.76	-65.15	5.50	12.58	H
	1399	-51.13	-13	-38.13	-62.09	-54.36	3.98	9.36	V
	2098.5	-61.27	-13	-48.27	-78.23	-64.82	4.85	10.55	V
	2798	-59.15	-13	-46.15	-78.45	-64.08	5.50	12.58	V
Middle	1406	-53.16	-13	-40.16	-63.08	-56.41	4.00	9.40	H
	2109	-61.44	-13	-48.44	-78.61	-65.01	4.88	10.60	H
	2812	-60.14	-13	-47.14	-78.74	-65.07	5.52	12.60	H
	1406	-49.59	-13	-36.59	-60.57	-52.84	4.00	9.40	V
	2109	-61.26	-13	-48.26	-78.22	-64.83	4.88	10.60	V
	2812	-59.23	-13	-46.23	-78.64	-64.16	5.52	12.60	V
Highest	1413	-48.62	-13	-35.62	-58.54	-51.79	4.10	9.42	H
	2119.5	-61.42	-13	-48.42	-78.68	-65.00	4.90	10.63	H
	2826	-60.23	-13	-47.23	-78.83	-65.15	5.55	12.62	H
	1413	-51.55	-13	-38.55	-62.53	-54.72	4.10	9.42	V
	2119.5	-61.41	-13	-48.41	-78.44	-64.99	4.90	10.63	V
	2826	-58.83	-13	-45.83	-78.24	-63.75	5.55	12.62	V

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



LTE Band 13 / 5MHz / 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	1554.5	-63.53	-13	-50.53	-73.89	-66.76	3.98	9.36	H
	2331.75	-60.00	-13	-47.00	-77.68	-63.55	4.85	10.55	H
	3109	-58.13	-13	-45.13	-77.63	-63.06	5.50	12.58	H
	1554.5	-63.25	-13	-50.25	-74.23	-66.48	3.98	9.36	V
	2331.75	-60.22	-13	-47.22	-78.18	-63.77	4.85	10.55	V
	3109	-57.08	-13	-44.08	-78.31	-62.01	5.50	12.58	V
Middle	1554.5	-65.99	-40	-25.99	-76.35	-69.24	4.00	9.40	H
	2331.75	-60.82	-13	-47.82	-78.50	-64.39	4.88	10.60	H
	3109	-59.38	-13	-46.38	-78.88	-64.31	5.52	12.60	H
	1554.5	-65.00	-40	-25.00	-75.98	-68.25	4.00	9.40	V
	2331.75	-60.80	-13	-47.80	-78.76	-64.37	4.88	10.60	V
	3109	-57.68	-13	-44.68	-78.91	-62.61	5.52	12.60	V
Highest	1564.5	-65.53	-40	-25.53	-75.89	-68.70	4.10	9.42	H
	2346.75	-61.41	-13	-48.41	-79.09	-64.99	4.90	10.63	H
	3129	-59.49	-13	-46.49	-79.03	-64.41	5.55	12.62	H
	1564.5	-66.52	-40	-26.52	-77.50	-69.69	4.10	9.42	V
	2346.75	-60.51	-13	-47.51	-78.56	-64.09	4.90	10.63	V
	3129	-57.42	-13	-44.42	-78.76	-62.34	5.55	12.62	V

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

LTE Band 13 / 10MHz / QPSK									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1555	-65.15	-40	-25.15	-75.51	-68.40	4.00	9.40	H
	2332.5	-61.32	-13	-48.32	-79.00	-64.89	4.88	10.60	H
	3110	-59.48	-13	-46.48	-78.98	-64.41	5.52	12.60	H
	1555	-66.64	-40	-26.64	-77.62	-69.89	4.00	9.40	V
	2332.5	-60.90	-13	-47.90	-78.86	-64.47	4.88	10.60	V
	3110	-57.47	-13	-44.47	-78.70	-62.40	5.52	12.60	V

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



LTE Band 26 / 1.4MHz / 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	1648.14	-67.26	-13	-54.26	-78.01	-70.49	3.98	9.36	H
	2472.21	-60.49	-13	-47.49	-78.83	-64.04	4.85	10.55	H
	3296.28	-59.29	-13	-46.29	-79.60	-64.22	5.50	12.58	H
	1648.14	-65.73	-13	-52.73	-77.12	-68.96	3.98	9.36	V
	2472.21	-60.17	-13	-47.17	-78.83	-63.72	4.85	10.55	V
	3296.28	-58.47	-13	-45.47	-79.67	-63.40	5.50	12.58	V
Middle	1671.74	-66.71	-13	-53.71	-77.65	-69.96	4.00	9.40	H
	2507.61	-59.98	-13	-46.98	-78.58	-63.55	4.88	10.60	H
	3343.48	-59.29	-13	-46.29	-79.90	-64.22	5.52	12.60	H
	1671.74	-66.50	-13	-53.50	-78.15	-69.75	4.00	9.40	V
	2507.61	-59.84	-13	-46.84	-78.65	-63.41	4.88	10.60	V
	3343.48	-59.03	-13	-46.03	-79.94	-63.96	5.52	12.60	V
Highest	1695.34	-66.85	-13	-53.85	-78.11	-70.02	4.10	9.42	H
	2543.01	-60.23	-13	-47.23	-78.96	-63.81	4.90	10.63	H
	3390.68	-60.47	-13	-47.47	-79.82	-65.39	5.55	12.62	H
	1695.34	-66.07	-13	-53.07	-78.00	-69.24	4.10	9.42	V
	2543.01	-59.75	-13	-46.75	-78.70	-63.33	4.90	10.63	V
	3390.68	-58.94	-13	-45.94	-79.62	-63.86	5.55	12.62	V

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



LTE Band 26 / 3MHz / 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	1648.3	-66.87	-13	-53.87	-77.62	-70.10	3.98	9.36	H
	2472.45	-60.43	-13	-47.43	-78.77	-63.98	4.85	10.55	H
	3296.6	-58.98	-13	-45.98	-79.29	-63.91	5.50	12.58	H
	1648.3	-66.48	-13	-53.48	-77.87	-69.71	3.98	9.36	V
	2472.45	-60.14	-13	-47.14	-78.80	-63.69	4.85	10.55	V
	3296.6	-58.43	-13	-45.43	-79.63	-63.36	5.50	12.58	V
Middle	1670.3	-66.99	-13	-53.99	-77.87	-70.24	4.00	9.40	H
	2505.45	-60.04	-13	-47.04	-78.64	-63.61	4.88	10.60	H
	3340.6	-59.29	-13	-46.29	-79.90	-64.22	5.52	12.60	H
	1670.3	-66.29	-13	-53.29	-77.84	-69.54	4.00	9.40	V
	2505.45	-59.88	-13	-46.88	-78.69	-63.45	4.88	10.60	V
	3340.6	-58.51	-13	-45.51	-79.42	-63.44	5.52	12.60	V
Highest	1692.3	-66.77	-13	-53.77	-78.03	-69.94	4.10	9.42	H
	2538.45	-60.13	-13	-47.13	-78.80	-63.71	4.90	10.63	H
	3384.6	-60.45	-13	-47.45	-80.22	-65.37	5.55	12.62	H
	1692.3	-66.31	-13	-53.31	-78.24	-69.48	4.10	9.42	V
	2538.45	-59.66	-13	-46.66	-78.54	-63.24	4.90	10.63	V
	3384.6	-58.69	-13	-45.69	-79.45	-63.61	5.55	12.62	V

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



LTE Band 26 / 5MHz / 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	1648.5	-66.73	-13	-53.73	-77.48	-69.96	3.98	9.36	H
	2472.75	-60.43	-13	-47.43	-78.77	-63.98	4.85	10.55	H
	3297	-59.32	-13	-46.32	-79.63	-64.25	5.50	12.58	H
	1648.5	-65.69	-13	-52.69	-77.08	-68.92	3.98	9.36	V
	2472.75	-60.10	-13	-47.10	-78.76	-63.65	4.85	10.55	V
	3297	-58.40	-13	-45.40	-79.60	-63.33	5.50	12.58	V
Middle	1668.5	-66.77	-13	-53.77	-77.65	-70.02	4.00	9.40	H
	2502.75	-59.74	-13	-46.74	-78.21	-63.31	4.88	10.60	H
	3337	-59.06	-13	-46.06	-79.57	-63.99	5.52	12.60	H
	1668.5	-66.06	-13	-53.06	-77.61	-69.31	4.00	9.40	V
	2502.75	-59.62	-13	-46.62	-78.35	-63.19	4.88	10.60	V
	3337	-58.57	-13	-45.57	-79.58	-63.50	5.52	12.60	V
Highest	1688.5	-66.80	-13	-53.80	-77.80	-69.97	4.10	9.42	H
	2532.75	-60.08	-13	-47.08	-78.75	-63.66	4.90	10.63	H
	3377	-60.06	-13	-47.06	-79.83	-64.98	5.55	12.62	H
	1688.5	-66.06	-13	-53.06	-77.77	-69.23	4.10	9.42	V
	2532.75	-59.96	-13	-46.96	-78.84	-63.54	4.90	10.63	V
	3377	-59.09	-13	-46.09	-79.85	-64.01	5.55	12.62	V

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



LTE Band 26 / 10MHz / 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	1649	-66.86	-13	-53.86	-77.61	-70.09	3.98	9.36	H
	2473.5	-60.21	-13	-47.21	-78.55	-63.76	4.85	10.55	H
	3298	-59.03	-13	-46.03	-79.34	-63.96	5.50	12.58	H
	1649	-66.28	-13	-53.28	-77.67	-69.51	3.98	9.36	V
	2473.5	-60.03	-13	-47.03	-78.69	-63.58	4.85	10.55	V
	3298	-58.29	-13	-45.29	-79.49	-63.22	5.50	12.58	V
Middle	1664	-65.72	-13	-52.72	-76.60	-68.97	4.00	9.40	H
	2496	-59.65	-13	-46.65	-78.12	-63.22	4.88	10.60	H
	3328	-58.84	-13	-45.84	-79.35	-63.77	5.52	12.60	H
	1664	-66.36	-13	-53.36	-77.91	-69.61	4.00	9.40	V
	2496	-60.09	-13	-47.09	-78.82	-63.66	4.88	10.60	V
	3328	-58.79	-13	-45.79	-79.80	-63.72	5.52	12.60	V
Highest	1679	-66.34	-13	-53.34	-77.34	-69.51	4.10	9.42	H
	2518.5	-60.10	-13	-47.10	-78.70	-63.68	4.90	10.63	H
	3358	-58.83	-13	-45.83	-79.02	-63.75	5.55	12.62	H
	1679	-65.98	-13	-52.98	-77.69	-69.15	4.10	9.42	V
	2518.5	-60.15	-13	-47.15	-78.96	-63.73	4.90	10.63	V
	3358	-58.70	-13	-45.70	-79.54	-63.62	5.55	12.62	V

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



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	1649.5	-66.91	-13	-53.91	-77.66	-70.14	3.98	9.36	H
	2474.25	-60.31	-13	-47.31	-78.65	-63.86	4.85	10.55	H
	3299	-59.15	-13	-46.15	-79.46	-64.08	5.50	12.58	H
	1649.5	-66.05	-13	-53.05	-77.44	-69.28	3.98	9.36	V
	2474.25	-59.80	-13	-46.80	-78.46	-63.35	4.85	10.55	V
	3299	-58.56	-13	-45.56	-79.76	-63.49	5.50	12.58	V
Middle	1659.5	-65.92	-13	-52.92	-76.80	-69.17	4.00	9.40	H
	2489.25	-60.06	-13	-47.06	-78.53	-63.63	4.88	10.60	H
	3319	-59.17	-13	-46.17	-79.58	-64.10	5.52	12.60	H
	1659.5	-66.21	-13	-53.21	-77.76	-69.46	4.00	9.40	V
	2489.25	-59.87	-13	-46.87	-78.60	-63.44	4.88	10.60	V
	3319	-58.42	-13	-45.42	-79.53	-63.35	5.52	12.60	V
Highest	1669.5	-67.11	-13	-54.11	-77.99	-70.28	4.10	9.42	H
	2504.25	-60.18	-13	-47.18	-78.65	-63.76	4.90	10.63	H
	3339	-59.37	-13	-46.37	-79.98	-64.29	5.55	12.62	H
	1669.5	-66.25	-13	-53.25	-77.80	-69.42	4.10	9.42	V
	2504.25	-60.36	-13	-47.36	-79.09	-63.94	4.90	10.63	V
	3339	-58.76	-13	-45.76	-79.67	-63.68	5.55	12.62	V

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