



# FCC RF Test Report

**APPLICANT** : HTC Corporation  
**EQUIPMENT** : Smartphone  
**MODEL NAME** : 0PM3100  
**FCC ID** : NM80PM3100  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Mar. 25, 2015 and completely tested on May 18, 2015. 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-C-2004 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.

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Reviewed by: Joseph Lin / Supervisor

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Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

**No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.**

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**SPORTON INTERNATIONAL INC.**

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : NM80PM3100

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**SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §24.238(a) §27.53(c)(2) §27.53(c)(4) §27.53(f) §27.53(g)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 13)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g)	Conducted Spurious Emission (Band 2) (Band 4) (Band 13)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§27.50(b)(10)	Effective Radiated Power (Band 13)	ERP < 3 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		-
4.5	§2.1053 §24.238(a) §27.53(c)(2) §27.53(f) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 13)	< 43+10log10(P[Watts])	PASS	Under limit 20.39 dB at 1560.000 MHz



# 1 General Description

## 1.1 Applicant

HTC Corporation

1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

## 1.2 Manufacturer

HTC Corporation

1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Model Name	OPM3100
FCC ID	NM80PM3100
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE WLAN 11b/g/n HT20 Bluetooth v4.0 EDR/LE
EUT Stage	Identical Prototype

## 1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 13 : 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.20 dBm LTE Band 4 : 23.30 dBm LTE Band 13 : 24.36 dBm
Type of Modulation	QPSK / 16QAM

## 1.5 Modification of EUT

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



### 1.6 Emission Designator

LTE Band 2		QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
1.4	1M10G7D	-	0.1608	1M10W7D	-	0.1231	
3	2M73G7D	-	0.1532	2M73W7D	-	0.1358	
5	4M50G7D	-	0.1581	4M51W7D	-	0.1272	
10	9M07G7D	0.0048	0.1460	9M03W7D	-	0.1335	
15	13M5G7D	-	0.1525	13M5W7D	-	0.1477	
20	18M4G7D	-	0.1589	18M4W7D	-	0.1316	
LTE Band 4		QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
1.4	1M10G7D	-	0.1704	1M10W7D	-	0.1524	
3	2M73G7D	-	0.1655	2M74W7D	-	0.1369	
5	4M52G7D	-	0.1621	4M53W7D	-	0.1253	
10	9M07G7D	0.0054	0.1660	9M03W7D	-	0.1442	
15	13M5G7D	-	0.1754	13M5W7D	-	0.1473	
20	18M5G7D	-	0.1617	18M5W7D	-	0.1337	
LTE Band 13		QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
5	4M53G7D	-	0.1025	4M53W7D	-	0.0825	
10	9M07G7D	0.0132	0.0987	9M07W7D	-	0.0705	



### 1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 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. TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH02-HY

<b>Test Site</b>	SPORTON INTERNATIONAL INC.
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH10-HY

### 1.8 Applicable Standards

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

- ♦ 47 CFR Part 2, 24(E), 27
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

**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 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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	13	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓	✓	✓	✓		✓	✓	✓	✓
	4						✓	✓	✓	✓		✓	✓	✓	✓
	13	-	-		✓	-	-	✓	✓	✓		✓	✓	✓	✓
26dB and 99% Bandwidth	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	13	-	-	✓	✓	-	-	✓	✓			✓	✓	✓	✓
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	13	-	-	✓	✓	-	-	✓	✓	✓		✓	✓		✓

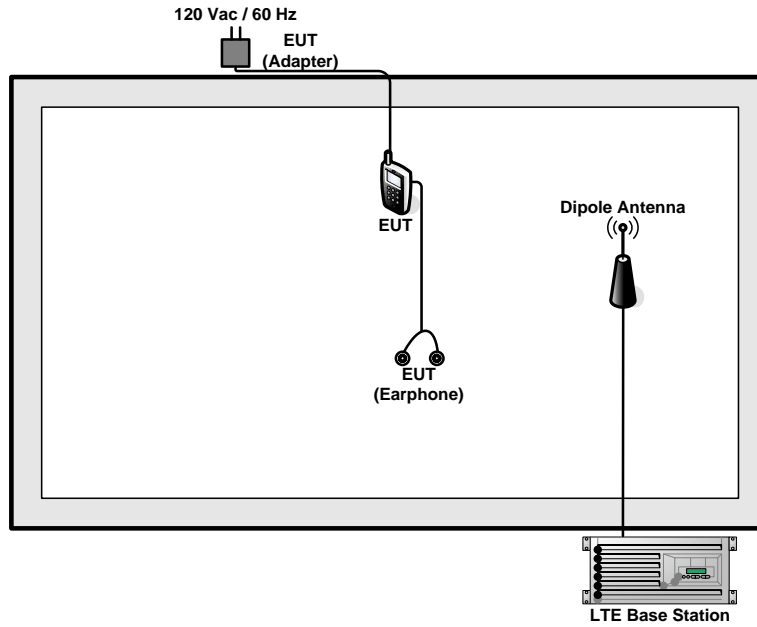




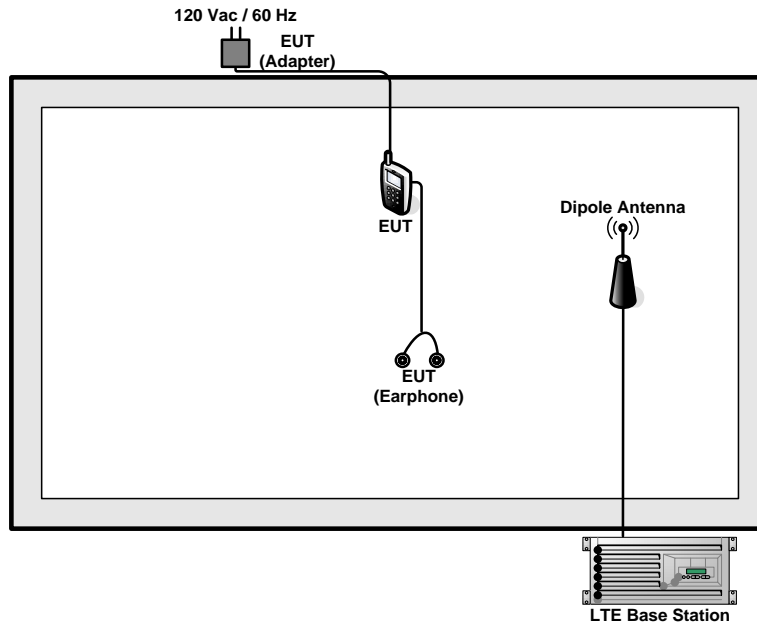
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	√	√	√	√	√	√	√	√	√			√	√	√
	4	√	√	√	√	√	√	√	√	√			√	√	√
	13	-	-	√	√	-	-	√	√	√			√	√	√
	17	-	-	√	√	-	-	√	√	√			√	√	√
Frequency Stability	2	√			√			√				√		√	
	4	√			√			√				√		√	
	13	-	-	√	√	-	-	√				√		√	
E.R.P/ E.I.R.P.	2	√	√	√	√	√	√	√	√	√			√	√	√
	4	√	√	√	√	√	√	√	√	√			√	√	√
	13	-	-	√	√	√	√	√	√	√			√	√	√
Radiated Spurious Emission	2	√	√	√	√	√	√	√		√			√	√	√
	4	√	√	√	√	√	√	√		√			√	√	√
	13	-	-	√	√	-	-	√		√			√	√	√
Note	<ol style="list-style-type: none"> <li>The mark "√" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol>														

## 2.2 Connection Diagram of Test System

### ERP/EIRP



### Radiated Spurious Emission





### 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	MT8820C	N/A	N/A	Unshielded, 1.8 m

### 2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

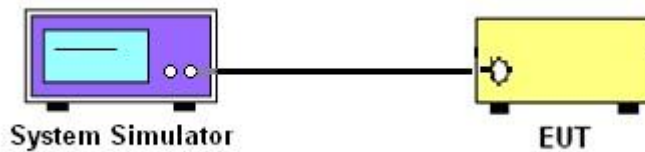
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

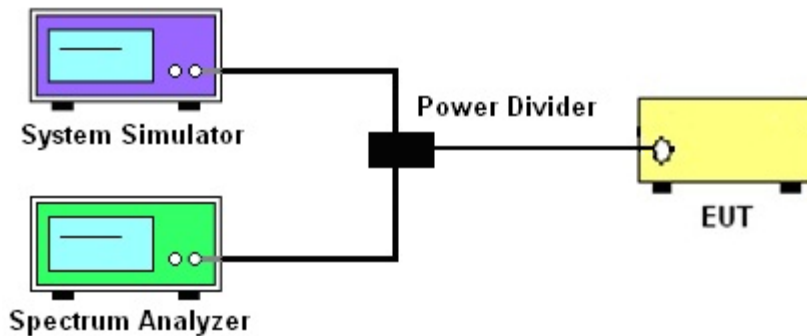
See list of measuring instruments of this test report.

#### 3.2 Test Setup

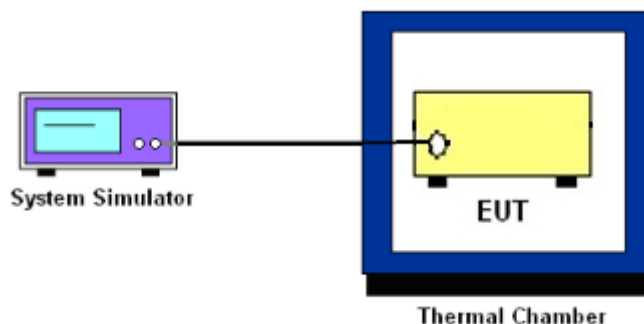
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



## **3.4 Conducted Output Power**

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

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

### **3.4.2 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.



## **3.5 Peak-to-Average Ratio**

### **3.5.1 Description of the PAR Measurement**

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### **3.5.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



## **3.6 Occupied Bandwidth**

### **3.6.1 Description of Occupied Bandwidth Measurement**

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### **3.6.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.



## 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge Measurement

24.238 (a) for Band 2

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c) for Band 13

For operations in the 776-788 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $65 + 10 \log_{10} p(\text{watts})$ , dB, for mobile and portable equipment.

27.53 (h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

### 3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)\text{dB}$  below the transmitter power  $P(\text{Watts})$   
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$   
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$   
 $= -13\text{dBm}.$





### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
= P(W)- [43 + 10log(P)] (dB)  
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)  
= -13dBm.



### **3.9 Frequency Stability**

#### **3.9.1 Description of Frequency Stability Measurement**

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

#### **3.9.2 Test Procedures for Temperature Variation**

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### **3.9.3 Test Procedures for Voltage Variation**

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

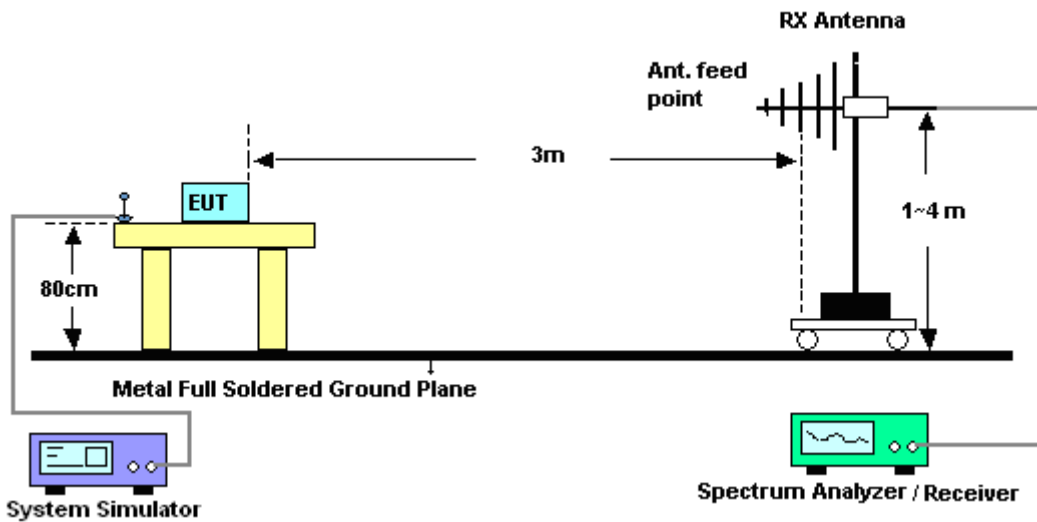
## 4 Radiated Test Items

### 4.1 Measuring Instruments

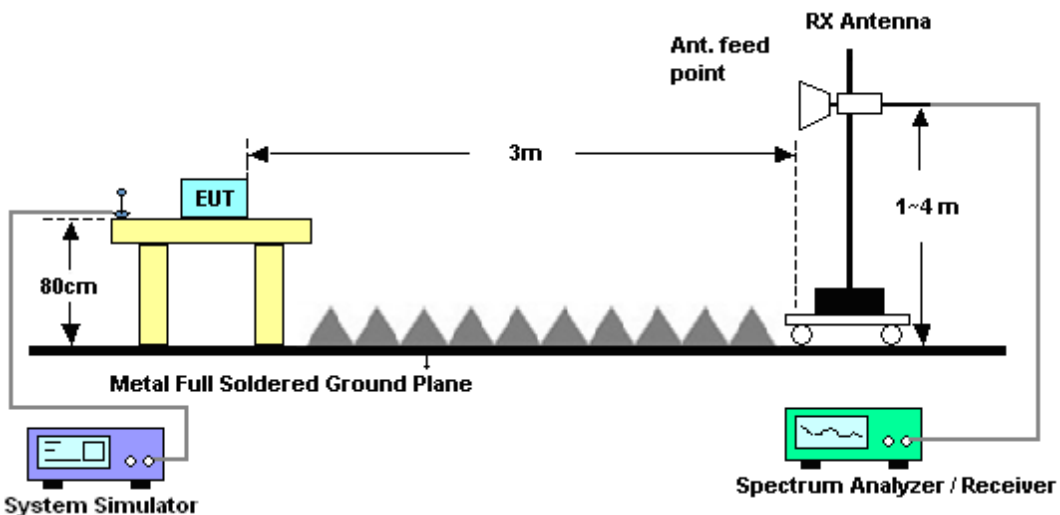
See list of measuring instruments of this test report.

### 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 Effective Radiated Power and Effective Isotropic Radiated Power**

### **4.4.1 Description of the ERP/EIRP Measurement**

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average 3 watts with LTE band 13.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 and 1 watt with LTE band 4.

### **4.4.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.2.1. and ANSI / TIA-603-C-2004 Section 2.2.17.
2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor,  $EIRP = LVL + \text{Correction factor}$  and  $ERP = EIRP - 2.15$ . Take the record of the output power at substitution antenna.



	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Average	Average	Average	Average	Average	Average
Average Type	Power	Power	Power	Power	Power	Power
Sweep Count	100	100	100	100	100	100



## 4.5 Radiated Spurious Emission

### 4.5.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. 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.

### 4.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter 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)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm.}$$

12.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
13.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201026480	30MHz~2.7GHz SISO	Jan. 08, 2015	May 15, 2015 ~ May 18, 2015	Jan. 07, 2016	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 09, 2014	May 15, 2015 ~ May 18, 2015	Jun. 08, 2015	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 17, 2014	May 15, 2015 ~ May 18, 2015	Jul. 16, 2015	Conducted (TH02-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 24, 2014	May 06, 2015	Nov. 23, 2015	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Oct. 24, 2014	May 06, 2015	Oct. 23, 2015	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A	MY54130085	20Hz ~ 8.4GHz	Nov. 05, 2014	May 06, 2015	Nov. 04, 2015	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Oct. 03, 2014	May 06, 2015	Oct. 02, 2015	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 20, 2014	May 06, 2015	Nov. 19, 2015	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHZ	Oct. 14, 2014	May 06, 2015	Oct. 13, 2015	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1~4m	NA	May 06, 2015	NA	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0-360 degree	NA	May 06, 2015	NA	Radiation (03CH10-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 24, 2014	May 06, 2015	Nov. 23, 2015	Radiation (03CH10-HY)



## 6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.54
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.72
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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
1.4	1	0	QPSK	21.68	21.62	21.76
1.4	1	2		21.78	21.76	21.58
1.4	1	5		21.72	21.65	21.25
1.4	3	0		21.64	21.72	21.57
1.4	3	1		21.84	21.63	21.50
1.4	3	2		21.71	21.59	21.34
1.4	6	0		20.75	20.75	21.03
1.4	1	0	16-QAM	20.46	20.85	20.98
1.4	1	2		20.53	20.62	20.84
1.4	1	5		20.40	20.73	20.51
1.4	3	0		20.54	20.78	20.69
1.4	3	1		20.77	20.79	20.62
1.4	3	2		20.57	20.82	20.51
1.4	6	0		19.37	19.54	19.85
3	1	0	QPSK	21.74	21.70	21.87
3	1	7		21.71	21.70	21.60
3	1	14		21.72	21.64	21.00
3	8	0		20.75	20.82	20.94
3	8	4		20.78	20.71	20.92
3	8	7		20.79	20.74	20.94
3	15	0		20.75	20.63	21.02
3	1	0	16-QAM	21.43	21.12	21.07
3	1	7		21.67	20.95	20.96
3	1	14		21.40	21.04	20.37
3	8	0		20.05	19.63	19.66
3	8	4		20.05	19.62	19.55
3	8	7		20.00	19.62	19.64
3	15	0		19.93	19.40	19.50



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.50	21.68	21.52
5	1	12		21.64	21.63	21.79
5	1	24		21.55	21.48	21.04
5	12	0		20.73	20.67	20.87
5	12	6		20.72	20.64	20.86
5	12	11		20.72	20.65	20.94
5	25	0		20.71	20.61	20.87
5	1	0	16-QAM	21.21	20.57	21.05
5	1	12		21.35	20.40	21.18
5	1	24		21.23	20.33	20.44
5	12	0		19.72	19.72	19.74
5	12	6		19.67	19.70	19.82
5	12	11		19.76	19.62	19.84
5	25	0		19.95	19.85	19.91
10	1	0	QPSK	21.79	22.00	21.44
10	1	24		22.20	21.96	21.98
10	1	49		21.80	21.48	20.58
10	25	0		20.83	20.72	20.77
10	25	12		20.93	20.68	20.85
10	25	24		20.96	20.66	20.86
10	50	0		20.88	20.66	20.80
10	1	0	16-QAM	20.64	21.20	20.57
10	1	24		20.71	21.00	20.86
10	1	49		20.86	21.30	20.00
10	25	0		19.64	19.99	19.62
10	25	12		19.83	20.02	19.67
10	25	24		20.06	19.71	19.68
10	50	0		19.71	19.63	19.71



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.98	21.85	21.65
15	1	37		21.94	21.57	21.64
15	1	74		21.84	21.50	20.98
15	36	0		20.99	20.81	20.65
15	36	18		20.87	20.69	20.77
15	36	37		20.79	20.63	20.86
15	75	0		20.88	20.76	20.75
15	1	0	16-QAM	21.10	21.33	21.13
15	1	37		21.05	21.06	21.14
15	1	74		21.08	20.91	20.39
15	36	0		19.74	19.79	19.71
15	36	18		19.67	19.74	19.79
15	36	37		19.50	19.68	19.85
15	75	0		19.79	19.72	19.78
20	1	0	QPSK	21.93	21.93	21.55
20	1	49		21.83	21.42	21.85
20	1	99		21.70	21.22	20.70
20	50	0		20.84	20.85	20.66
20	50	24		20.74	20.62	20.65
20	50	49		20.72	20.58	20.76
20	100	0		20.78	20.65	20.70
20	1	0	16-QAM	21.25	21.16	20.85
20	1	49		21.11	20.92	20.52
20	1	99		21.08	20.69	20.11
20	50	0		19.85	19.84	19.61
20	50	24		19.82	19.67	19.64
20	50	49		19.73	19.57	19.67
20	100	0		19.79	19.69	19.60



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.79	22.48	22.74
1.4	1	2		22.85	22.46	22.87
1.4	1	5		22.73	22.40	22.86
1.4	3	0		22.72	22.40	22.88
1.4	3	1		22.82	22.42	23.09
1.4	3	2		22.82	22.40	22.78
1.4	6	0		21.98	21.99	21.95
1.4	1	0	16-QAM	22.50	21.79	22.12
1.4	1	2		22.37	21.80	21.95
1.4	1	5		22.34	21.76	21.84
1.4	3	0		22.20	21.60	22.12
1.4	3	1		22.27	21.62	22.02
1.4	3	2		22.23	21.61	21.87
1.4	6	0		20.78	20.65	20.67
3	1	0	QPSK	22.83	22.64	22.74
3	1	7		23.18	22.47	22.81
3	1	14		22.90	22.45	22.71
3	8	0		21.89	21.88	21.89
3	8	4		21.93	21.93	21.79
3	8	7		21.91	21.90	21.81
3	15	0		21.89	21.91	21.84
3	1	0	16-QAM	21.73	21.92	22.05
3	1	7		21.75	21.79	22.07
3	1	14		21.84	21.79	21.68
3	8	0		21.14	20.76	21.08
3	8	4		21.06	20.66	21.09
3	8	7		21.10	20.69	21.05
3	15	0		21.12	20.54	20.97



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.71	22.68	22.45
5	1	12		22.97	22.35	22.78
5	1	24		23.00	22.54	22.36
5	12	0		21.88	21.72	21.75
5	12	6		21.98	21.88	21.78
5	12	11		21.98	21.86	21.77
5	25	0		21.96	21.72	21.80
5	1	0	16-QAM	22.37	21.98	22.03
5	1	12		22.46	21.69	22.20
5	1	24		22.26	21.90	22.00
5	12	0		20.91	20.88	20.81
5	12	6		21.01	20.85	20.88
5	12	11		21.01	20.79	20.88
5	25	0		21.19	20.79	21.22
10	1	0	QPSK	22.92	22.66	22.65
10	1	24		22.96	22.33	22.67
10	1	49		23.10	22.37	22.69
10	25	0		22.07	21.81	21.71
10	25	12		22.06	21.81	21.66
10	25	24		22.08	21.76	21.70
10	50	0		21.98	21.81	21.70
10	1	0	16-QAM	22.35	21.96	21.68
10	1	24		22.31	21.66	21.50
10	1	49		22.71	21.70	21.51
10	25	0		21.08	20.78	20.88
10	25	12		21.00	20.66	20.86
10	25	24		21.40	20.60	20.92
10	50	0		21.11	20.69	20.53



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.92	22.93	22.78
15	1	37		22.93	22.26	22.69
15	1	74		22.65	22.55	22.62
15	36	0		21.98	21.82	21.71
15	36	18		22.04	21.87	21.66
15	36	37		21.99	21.70	21.75
15	75	0		21.98	21.71	21.68
15	1	0	16-QAM	21.85	21.95	21.94
15	1	37		21.94	21.62	21.85
15	1	74		21.62	21.55	21.80
15	36	0		21.04	20.88	20.53
15	36	18		21.10	20.79	20.54
15	36	37		21.00	20.83	20.58
15	75	0		21.04	20.86	20.75
20	1	0	QPSK	22.95	22.90	22.40
20	1	49		23.30	22.24	22.65
20	1	99		22.28	22.43	22.68
20	50	0		22.16	21.79	21.82
20	50	24		21.89	21.85	21.65
20	50	49		21.73	21.68	21.70
20	100	0		21.94	21.74	21.79
20	1	0	16-QAM	21.82	22.24	21.79
20	1	49		21.86	21.59	22.01
20	1	99		21.55	21.81	22.13
20	50	0		21.26	20.85	20.93
20	50	24		21.15	20.80	20.78
20	50	49		20.94	20.81	20.71
20	100	0		21.00	20.72	20.75



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.90	23.81	23.81
5	1	12		24.36	24.03	24.13
5	1	24		23.95	23.92	23.84
5	12	0		23.04	22.98	22.88
5	12	6		23.17	22.88	22.82
5	12	11		23.05	22.86	22.84
5	25	0		22.97	22.91	22.81
5	1	0	16-QAM	22.85	22.87	22.98
5	1	12		22.88	22.61	22.78
5	1	24		22.79	22.48	22.97
5	12	0		22.16	22.16	22.14
5	12	6		22.29	22.04	22.09
5	12	11		22.19	21.85	21.88
5	25	0		22.32	22.15	22.03
10	1	0	QPSK		23.98	
10	1	24			24.14	
10	1	49			23.93	
10	25	0			22.90	
10	25	12			22.90	
10	25	24			22.75	
10	50	0			22.93	
10	1	0	16-QAM		23.21	
10	1	24			23.22	
10	1	49			23.20	
10	25	0			22.36	
10	25	12			22.32	
10	25	24			22.12	
10	50	0			21.95	



## Appendix B. Test Results of Radiated Test

### ERP/EIRP

LTE Band 2 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.99	0.1581	18.27	0.0671
Middle		1	0	22.06	0.1607	18.33	0.0681
Highest		1	0	20.29	0.1069	16.57	0.0454
Lowest	16QAM	1	0	20.79	0.1199	17.14	0.0518
Middle		1	0	20.90	0.1230	17.13	0.0516
Highest		1	0	19.56	0.0904	15.78	0.0378
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.85	0.1531	18.56	0.0718
Middle		1	0	21.73	0.1489	18.13	0.0650
Highest		1	0	20.44	0.1107	16.71	0.0469
Lowest	16QAM	1	0	21.33	0.1358	18.03	0.0635
Middle		1	0	21.31	0.1352	17.58	0.0573
Highest		1	0	19.94	0.0986	16.30	0.0427
Limit	EIRP < 2W			Result		PASS	





LTE Band 2 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.96	0.1570	18.51	0.0710
Middle		1	0	21.99	0.1581	18.40	0.0692
Highest		1	0	20.65	0.1161	16.79	0.0478
Lowest	16QAM	1	0	21.05	0.1274	17.55	0.0569
Middle		1	0	20.63	0.1156	16.99	0.0500
Highest		1	0	19.82	0.0959	16.20	0.0417
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.64	0.1459	18.39	0.0690
Middle		1	0	21.63	0.1455	18.03	0.0635
Highest		1	0	20.91	0.1233	17.10	0.0513
Lowest	16QAM	1	0	21.20	0.1318	17.76	0.0597
Middle		1	0	21.26	0.1337	17.78	0.0600
Highest		1	0	20.46	0.1112	16.62	0.0459
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.58	0.1439	18.35	0.0684
Middle		1	0	21.83	0.1524	18.43	0.0697
Highest		1	0	21.79	0.1510	18.05	0.0638
Lowest	16QAM	1	0	20.74	0.1186	18.34	0.0682
Middle		1	0	20.99	0.1256	17.65	0.0582
Highest		1	0	21.69	0.1476	17.68	0.0586
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.72	0.1486	18.36	0.0685
Middle		1	0	21.46	0.1400	18.14	0.0652
Highest		1	0	22.01	0.1589	18.51	0.0710
Lowest	16QAM	1	0	20.49	0.1119	17.65	0.0582
Middle		1	0	20.83	0.1211	17.33	0.0541
Highest		1	0	21.19	0.1315	17.10	0.0513
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.92	0.1556	19.32	0.0855
Middle		1	0	22.32	0.1706	19.17	0.0826
Highest		1	0	21.49	0.1409	18.72	0.0745
Lowest	16QAM	1	0	20.85	0.1216	18.34	0.0682
Middle		1	0	21.83	0.1524	18.85	0.0767
Highest		1	0	20.36	0.1086	18.03	0.0635
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.51	0.1416	19.56	0.0904
Middle		1	0	22.19	0.1656	19.42	0.0875
Highest		1	0	21.60	0.1445	18.80	0.0759
Lowest	16QAM	1	0	20.80	0.1202	17.53	0.0566
Middle		1	0	21.36	0.1368	19.12	0.0817
Highest		1	0	21.05	0.1274	18.21	0.0662
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.56	0.1432	18.93	0.0782
Middle		1	0	22.10	0.1622	19.42	0.0875
Highest		1	0	21.53	0.1422	18.93	0.0782
Lowest	16QAM	1	0	20.96	0.1247	18.16	0.0655
Middle		1	0	20.43	0.1104	18.69	0.0740
Highest		1	0	20.98	0.1253	17.72	0.0592
Limit	EIRP < 1W			Result		PASS	

LTE Band 4/ 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.77	0.1503	19.30	0.0851
Middle		1	0	21.92	0.1556	19.27	0.0845
Highest		1	0	22.20	0.1660	19.21	0.0834
Lowest	16QAM	1	0	20.93	0.1239	18.74	0.0748
Middle		1	0	21.59	0.1442	18.75	0.0750
Highest		1	0	21.05	0.1274	17.70	0.0589
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 15MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.44	0.1754	20.03	0.1007
Middle		1	0	21.94	0.1563	19.41	0.0873
Highest		1	0	22.14	0.1637	19.42	0.0875
Lowest	16QAM	1	0	21.24	0.1330	17.60	0.0575
Middle		1	0	21.68	0.1472	19.31	0.0853
Highest		1	0	21.33	0.1358	18.17	0.0656
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.53	0.1422	19.23	0.0838
Middle		1	0	22.06	0.1607	19.68	0.0929
Highest		1	0	22.09	0.1618	19.57	0.0906
Lowest	16QAM	1	0	20.22	0.1052	18.98	0.0791
Middle		1	0	21.26	0.1337	18.82	0.0762
Highest		1	0	21.08	0.1282	17.49	0.0561
Limit	EIRP < 1W			Result		PASS	



LTE Band 13 / 5MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	19.88	0.0973	8.86	0.0077
Middle		1	0	19.81	0.0957	8.74	0.0075
Highest		1	0	20.11	0.1026	8.93	0.0078
Lowest	16QAM	1	0	18.10	0.0646	8.20	0.0066
Middle		1	0	19.16	0.0824	8.41	0.0069
Highest		1	0	18.84	0.0766	7.58	0.0057
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	-	-	-	-
Middle		1	0	19.94	0.0986	8.73	0.0075
Highest		1	0	-	-	-	-
Lowest	16QAM	1	0	-	-	-	-
Middle		1	0	18.48	0.0705	7.83	0.0061
Highest		1	0	-	-	-	-
Limit	ERP < 3W			Result		PASS	



### Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	-45.29	-13	-32.29	-63.68	-51.86	1.67	8.24	H
	5548	-47.62	-13	-34.62	-71.4	-54.69	2.65	9.72	H
	7403	-43.16	-13	-30.16	-72.24	-52.31	2.46	11.61	H
	3700	-50.24	-13	-37.24	-69.24	-56.81	1.67	8.24	V
	5548	-49.51	-13	-36.51	-71.71	-56.58	2.65	9.72	V
	7403	-44.11	-13	-31.11	-72.3	-53.26	2.46	11.61	V
Middle	3756	-46.66	-13	-33.66	-65.4	-53.28	1.68	8.31	H
	5639	-47.64	-13	-34.64	-71.6	-54.69	2.71	9.76	H
	7522	-44.69	-13	-31.69	-73.54	-54.08	2.42	11.81	H
	3756	-48.67	-13	-35.67	-67.19	-55.29	1.68	8.31	V
	5639	-50.17	-13	-37.17	-72.96	-57.22	2.71	9.76	V
	7522	-44.80	-13	-31.80	-73.17	-54.19	2.42	11.81	V
Highest	3819	-49.68	-13	-36.68	-68.93	-54.21	1.70	8.38	H
	5730	-46.84	-13	-33.84	-70.93	-51.72	2.76	9.79	H
	7634	-45.73	-13	-32.73	-74.37	-53.07	2.39	11.88	H
	3819	-52.28	-13	-39.28	-70.73	-56.81	1.70	8.38	V
	5730	-48.57	-13	-35.57	-71.15	-53.45	2.76	9.79	V
	7634	-47.28	-13	-34.28	-75.09	-54.62	2.39	11.88	V

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



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
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	-46.68	-13	-33.68	-65.08	-53.25	1.67	8.24	H
	5548	-48.31	-13	-35.31	-72.03	-55.38	2.65	9.72	H
	7403	-43.03	-13	-30.03	-72.29	-52.18	2.46	11.61	H
	3700	-48.91	-13	-35.91	-67.52	-55.48	1.67	8.24	V
	5548	-47.55	-13	-34.55	-70.1	-54.62	2.65	9.72	V
	7403	-43.49	-13	-30.49	-71.58	-52.64	2.46	11.61	V
Middle	3756	-47.24	-13	-34.24	-66.46	-53.86	1.68	8.31	H
	5639	-46.07	-13	-33.07	-70.31	-53.12	2.71	9.76	H
	7515	-44.22	-13	-31.22	-73.3	-53.6	2.42	11.81	H
	3756	-50.63	-13	-37.63	-68.87	-57.25	1.68	8.31	V
	5639	-49.14	-13	-36.14	-72.13	-56.19	2.71	9.76	V
	7515	-44.56	-13	-31.56	-73.07	-53.94	2.42	11.81	V
Highest	3812	-48.50	-13	-35.50	-68.04	-53.02	1.70	8.37	H
	5723	-47.59	-13	-34.59	-71.69	-52.48	2.75	9.79	H
	7627	-45.67	-13	-32.67	-73.78	-53.01	2.39	11.88	H
	3812	-50.76	-13	-37.76	-69	-55.28	1.70	8.37	V
	5723	-49.45	-13	-36.45	-72.44	-54.34	2.75	9.79	V
	7627	-45.77	-13	-32.77	-73.34	-53.11	2.39	11.88	V

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





LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
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	-45.50	-13	-32.50	-64.01	-52.07	1.67	8.24	H
	5555	-45.54	-13	-32.54	-69.47	-52.61	2.66	9.72	H
	7403	-42.14	-13	-29.14	-71.4	-51.29	2.46	11.61	H
	3700	-47.81	-13	-34.81	-66.17	-54.38	1.67	8.24	V
	5555	-48.32	-13	-35.32	-71.07	-55.39	2.66	9.72	V
	7403	-43.26	-13	-30.26	-71.61	-52.41	2.46	11.61	V
Middle	3756	-47.66	-13	-34.66	-66.09	-54.28	1.68	8.31	H
	5632	-47.22	-13	-34.22	-70.97	-54.27	2.70	9.75	H
	7515	-44.23	-13	-31.23	-73.04	-53.61	2.42	11.81	H
	3756	-49.16	-13	-36.16	-67.92	-55.78	1.68	8.31	V
	5632	-48.23	-13	-35.23	-70.66	-55.28	2.70	9.75	V
	7515	-43.31	-13	-30.31	-72.33	-52.69	2.42	11.81	V
Highest	3812	-48.76	-13	-35.76	-68.01	-53.28	1.70	8.37	H
	5716	-46.29	-13	-33.29	-70.37	-51.18	2.75	9.79	H
	7620	-45.55	-13	-32.55	-74.05	-52.88	2.39	11.87	H
	3812	-50.69	-13	-37.69	-69.07	-55.21	1.70	8.37	V
	5716	-48.53	-13	-35.53	-71.94	-53.42	2.75	9.79	V
	7620	-45.42	-13	-32.42	-73.12	-52.75	2.39	11.87	V

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



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
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	-46.48	-13	-33.48	-65.13	-53.05	1.67	8.24	H
	5555	-45.01	-13	-32.01	-68.75	-52.08	2.66	9.72	H
	7403	-41.70	-13	-28.70	-70.66	-50.85	2.46	11.61	H
	3700	-46.45	-13	-33.45	-64.99	-53.02	1.67	8.24	V
	5555	-48.76	-13	-35.76	-70.92	-55.83	2.66	9.72	V
	7403	-42.89	-13	-29.89	-70.94	-52.04	2.46	11.61	V
Middle	3749	-48.54	-13	-35.54	-67.62	-55.16	1.68	8.30	H
	5625	-45.50	-13	-32.50	-69.15	-52.55	2.70	9.75	H
	7501	-44.10	-13	-31.10	-72.83	-53.47	2.43	11.80	H
	3749	-45.81	-13	-32.81	-64.59	-52.43	1.68	8.30	V
	5625	-41.21	-13	-28.21	-63.35	-48.26	2.70	9.75	V
	7501	-45.49	-13	-32.49	-73.98	-54.86	2.43	11.80	V
Highest	3805	-47.62	-13	-34.62	-67.05	-52.14	1.70	8.37	H
	5702	-45.11	-13	-32.11	-69.09	-50	2.74	9.78	H
	7606	-44.48	-13	-31.48	-72.84	-51.8	2.40	11.86	H
	3805	-50.61	-13	-37.61	-69.24	-55.13	1.70	8.37	V
	5702	-45.66	-13	-32.66	-68.72	-50.55	2.74	9.78	V
	7606	-45.11	-13	-32.11	-73.09	-52.43	2.40	11.86	V

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



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
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	-44.69	-13	-31.69	-63.33	-51.26	1.67	8.24	H
	5555	-46.54	-13	-33.54	-70.56	-53.61	2.66	9.72	H
	7403	-43.90	-13	-30.90	-72.96	-53.05	2.46	11.61	H
	3700	-49.66	-13	-36.66	-68	-56.23	1.67	8.24	V
	5555	-49.14	-13	-36.14	-71.52	-56.21	2.66	9.72	V
	7403	-43.54	-13	-30.54	-71.65	-52.69	2.46	11.61	V
Middle	3749	-47.81	-13	-34.81	-66.99	-54.43	1.68	8.30	H
	5618	-46.56	-13	-33.56	-70.07	-53.61	2.69	9.75	H
	7494	-43.80	-13	-30.80	-72.72	-53.16	2.43	11.79	H
	3749	-51.99	-13	-38.99	-70.56	-58.61	1.68	8.30	V
	5618	-45.44	-13	-32.44	-67.93	-52.49	2.69	9.75	V
	7494	-43.82	-13	-30.82	-71.94	-53.18	2.43	11.79	V
Highest	3791	-49.41	-13	-36.41	-68.5	-53.91	1.70	8.35	H
	5688	-47.28	-13	-34.28	-71.52	-52.17	2.73	9.78	H
	7585	-44.91	-13	-31.91	-73.2	-52.21	2.40	11.85	H
	3791	-52.53	-13	-39.53	-71.28	-57.03	1.70	8.35	V
	5688	-47.27	-13	-34.27	-69.94	-52.16	2.73	9.78	V
	7585	-46.13	-13	-33.13	-74.08	-53.43	2.40	11.85	V

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



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
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	-46.24	-13	-33.24	-64.8	-52.81	1.67	8.24	H
	5555	-45.75	-13	-32.75	-69.65	-52.82	2.66	9.72	H
	7403	-44.09	-13	-31.09	-72.99	-53.24	2.46	11.61	H
	3700	-50.35	-13	-37.35	-69.16	-56.92	1.67	8.24	V
	5555	-49.27	-13	-36.27	-71.18	-56.34	2.66	9.72	V
	7403	-43.03	-13	-30.03	-71.4	-52.18	2.46	11.61	V
Middle	3742	-47.64	-13	-34.64	-65.93	-54.25	1.68	8.29	H
	5611	-49.36	-13	-36.36	-72.92	-56.42	2.69	9.74	H
	7487	-44.07	-13	-31.07	-72.94	-53.41	2.43	11.77	H
	3742	-51.17	-13	-38.17	-69.8	-57.78	1.68	8.29	V
	5611	-50.36	-13	-37.36	-72.8	-57.42	2.69	9.74	V
	7487	-45.29	-13	-32.29	-73.64	-54.63	2.43	11.77	V
Highest	3784	-48.36	-13	-35.36	-67.67	-52.86	1.69	8.34	H
	5674	-47.44	-13	-34.44	-70.06	-52.33	2.73	9.77	H
	7564	-45.41	-13	-32.41	-74.12	-52.69	2.41	11.84	H
	3784	-51.29	-13	-38.29	-69.94	-55.79	1.69	8.34	V
	5674	-48.78	-13	-35.78	-71.35	-53.67	2.73	9.77	V
	7564	-45.58	-13	-32.58	-74	-52.86	2.41	11.84	V

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



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
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	-54.40	-13	-41.40	-71.03	-60.47	1.58	7.65	H
	5132	-36.14	-13	-23.14	-58.9	-43.43	2.41	9.70	H
	6840	-42.70	-13	-29.70	-69.57	-50.67	2.64	10.61	H
	3420	-55.15	-13	-42.15	-71.3	-61.22	1.58	7.65	V
	5132	-36.75	-13	-23.75	-58.58	-44.04	2.41	9.70	V
	6840	-40.54	-13	-27.54	-67.11	-48.51	2.64	10.61	V
Middle	3464	-55.77	-13	-42.77	-72.64	-62.02	1.59	7.84	H
	5196	-37.02	-13	-24.02	-59.73	-44.27	2.45	9.70	H
	6928	-43.14	-13	-30.14	-70.48	-51.24	2.61	10.71	H
	3464	-58.40	-13	-45.40	-75.24	-64.65	1.59	7.84	V
	5196	-35.90	-13	-22.90	-58.18	-43.15	2.45	9.70	V
	6928	-41.31	-13	-28.31	-68.35	-49.41	2.61	10.71	V
Highest	3508	-53.60	-13	-40.60	-70.95	-60	1.61	8.01	H
	5260	-41.42	-13	-28.42	-64.28	-48.63	2.49	9.70	H
	7016	-41.63	-13	-28.63	-69.2	-49.88	2.59	10.83	H
	3508	-57.78	-13	-44.78	-75.37	-64.18	1.61	8.01	V
	5260	-42.25	-13	-29.25	-65.02	-49.46	2.49	9.70	V
	7016	-41.24	-13	-28.24	-68.7	-49.49	2.59	10.83	V

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



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
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	-55.28	-13	-42.28	-71.79	-61.35	1.58	7.65	H
	5132	-37.34	-13	-24.34	-60	-44.63	2.41	9.70	H
	6840	-42.85	-13	-29.85	-69.71	-50.82	2.64	10.61	H
	3420	-56.51	-13	-43.51	-72.7	-62.58	1.58	7.65	V
	5132	-38.26	-13	-25.26	-60.16	-45.55	2.41	9.70	V
	6840	-40.15	-13	-27.15	-66.71	-48.12	2.64	10.61	V
Middle	3464	-54.73	-13	-41.73	-71.7	-60.98	1.59	7.84	H
	5192	-36.80	-13	-23.80	-59.53	-44.05	2.45	9.70	H
	6924	-42.39	-13	-29.39	-69.59	-50.48	2.62	10.71	H
	3464	-57.50	-13	-44.50	-74.43	-63.75	1.59	7.84	V
	5192	-36.38	-13	-23.38	-58.46	-43.63	2.45	9.70	V
	6924	-40.63	-13	-27.63	-67.67	-48.72	2.62	10.71	V
Highest	3504	-55.03	-13	-42.03	-72.3	-61.43	1.61	8.00	H
	5256	-40.06	-13	-27.06	-62.68	-47.28	2.48	9.70	H
	7008	-41.29	-13	-28.29	-68.75	-49.52	2.59	10.82	H
	3504	-56.37	-13	-43.37	-73.8	-62.77	1.61	8.00	V
	5256	-41.01	-13	-28.01	-63.93	-48.23	2.48	9.70	V
	7008	-38.80	-13	-25.80	-66.16	-47.03	2.59	10.82	V

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



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
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	-55.93	-13	-42.93	-72.47	-62	1.58	7.65	H
	5132	-36.89	-13	-23.89	-59.71	-44.18	2.41	9.70	H
	6840	-42.30	-13	-29.30	-69.17	-50.27	2.64	10.61	H
	3420	-56.92	-13	-43.92	-73.03	-62.99	1.58	7.65	V
	5132	-37.42	-13	-24.42	-59.32	-44.71	2.41	9.70	V
	6840	-39.77	-13	-26.77	-66.28	-47.74	2.64	10.61	V
Middle	3460	-55.78	-13	-42.78	-72.77	-62.01	1.59	7.82	H
	5192	-35.98	-13	-22.98	-58.64	-43.23	2.45	9.70	H
	6920	-43.24	-13	-30.24	-70.5	-51.33	2.62	10.70	H
	3460	-58.21	-13	-45.21	-75.07	-64.44	1.59	7.82	V
	5192	-35.04	-13	-22.04	-57.23	-42.29	2.45	9.70	V
	6920	-42.49	-13	-29.49	-69.45	-50.58	2.62	10.70	V
Highest	3500	-54.77	-13	-41.77	-72.04	-61.17	1.60	8.00	H
	5252	-38.80	-13	-25.80	-61.37	-46.02	2.48	9.70	H
	7000	-40.06	-13	-27.06	-67.56	-48.27	2.59	10.80	H
	3500	-56.35	-13	-43.35	-73.68	-62.75	1.60	8.00	V
	5252	-39.65	-13	-26.65	-62.55	-46.87	2.48	9.70	V
	7000	-37.76	-13	-24.76	-65.12	-45.97	2.59	10.80	V

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



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
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	-56.14	-13	-43.14	-72.69	-62.21	1.58	7.65	H
	5132	-37.25	-13	-24.25	-60.06	-44.54	2.41	9.70	H
	6844	-42.88	-13	-29.88	-69.84	-50.85	2.64	10.61	H
	3420	-57.67	-13	-44.67	-73.81	-63.74	1.58	7.65	V
	5132	-37.26	-13	-24.26	-59.14	-44.55	2.41	9.70	V
	6844	-40.44	-13	-27.44	-66.94	-48.41	2.64	10.61	V
Middle	3456	-55.66	-13	-42.66	-72.49	-61.88	1.59	7.81	H
	5184	-38.51	-13	-25.51	-61.25	-45.77	2.44	9.70	H
	6912	-43.26	-13	-30.26	-70.42	-51.34	2.62	10.69	H
	3456	-59.06	-13	-46.06	-75.67	-65.28	1.59	7.81	V
	5184	-37.74	-13	-24.74	-59.78	-45	2.44	9.70	V
	6912	-43.06	-13	-30.06	-70.12	-51.14	2.62	10.69	V
Highest	3492	-56.48	-13	-43.48	-73.69	-62.84	1.60	7.96	H
	5236	-39.87	-13	-26.87	-62.54	-47.1	2.47	9.70	H
	6984	-40.60	-13	-27.60	-67.99	-48.79	2.60	10.78	H
	3492	-57.58	-13	-44.58	-74.98	-63.94	1.60	7.96	V
	5236	-38.97	-13	-25.97	-61.63	-46.2	2.47	9.70	V
	6984	-38.83	-13	-25.83	-66.17	-47.02	2.60	10.78	V

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





LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
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	-43.31	-13	-30.31	-59.94	-49.38	1.58	7.65	H
	5132	-33.94	-13	-20.94	-56.72	-41.23	2.41	9.70	H
	6844	-42.14	-13	-29.14	-69.01	-50.11	2.64	10.61	H
	3420	-56.09	-13	-43.09	-72.18	-62.16	1.58	7.65	V
	5132	-36.49	-13	-23.49	-58.4	-43.78	2.41	9.70	V
	6844	-40.33	-13	-27.33	-66.82	-48.3	2.64	10.61	V
Middle	3452	-57.46	-13	-44.46	-74.25	-63.66	1.59	7.79	H
	5176	-37.74	-13	-24.74	-60.45	-45	2.44	9.70	H
	6904	-42.33	-13	-29.33	-69.41	-50.39	2.62	10.68	H
	3452	-58.98	-13	-45.98	-75.6	-65.18	1.59	7.79	V
	5176	-36.85	-13	-23.85	-59.02	-44.11	2.44	9.70	V
	6904	-41.88	-13	-28.88	-68.54	-49.94	2.62	10.68	V
Highest	3480	-54.91	-13	-41.91	-72.11	-61.22	1.60	7.91	H
	5224	-39.88	-13	-26.88	-62.57	-47.11	2.47	9.70	H
	6964	-42.70	-13	-29.70	-69.98	-50.85	2.60	10.76	H
	3480	-57.38	-13	-44.38	-74.37	-63.69	1.60	7.91	V
	5224	-40.51	-13	-27.51	-63.03	-47.74	2.47	9.70	V
	6964	-38.21	-13	-25.21	-65.37	-46.36	2.60	10.76	V

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



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
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	-53.49	-13	-40.49	-70.05	-59.56	1.58	7.65	H
	5135	-35.94	-13	-22.94	-58.73	-43.23	2.41	9.70	H
	6843	-42.27	-13	-29.27	-69.19	-50.24	2.64	10.61	H
	3420	-56.27	-13	-43.27	-72.41	-62.34	1.58	7.65	V
	5135	-36.49	-13	-23.49	-58.41	-43.78	2.41	9.70	V
	6843	-38.66	-13	-25.66	-65.15	-46.63	2.64	10.61	V
Middle	3448	-57.64	-13	-44.64	-74.44	-63.82	1.59	7.77	H
	5172	-38.03	-13	-25.03	-60.8	-45.29	2.44	9.70	H
	6896	-42.89	-13	-29.89	-70.04	-50.94	2.62	10.68	H
	3448	-59.04	-13	-46.04	-75.67	-65.22	1.59	7.77	V
	5172	-38.51	-13	-25.51	-60.53	-45.77	2.44	9.70	V
	6896	-41.82	-13	-28.82	-68.62	-49.87	2.62	10.68	V
Highest	3476	-49.11	-13	-36.11	-66.3	-55.41	1.60	7.89	H
	5212	-36.20	-13	-23.20	-58.79	-43.44	2.46	9.70	H
	6948	-41.26	-13	-28.26	-68.56	-49.39	2.61	10.74	H
	3476	-52.57	-13	-39.57	-69.78	-58.87	1.60	7.89	V
	5212	-36.87	-13	-23.87	-59.44	-44.11	2.46	9.70	V
	6948	-41.00	-13	-28.00	-68.14	-49.13	2.61	10.74	V

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



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0									
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	1552	-61.51	-13	-48.51	-71.91	-63.58	0.94	5.15	H
	2328	-61.68	-13	-48.68	-74.95	-63.18	1.24	4.88	H
	3112	-56.20	-13	-43.20	-73.33	-58.86	1.48	6.29	H
	1552	-64.04	-13.00	-51.04	-71.95	-66.11	0.94	5.15	V
	2328	-59.88	-13	-46.88	-74.86	-61.38	1.24	4.88	V
	3112	-59.09	-13	-46.09	-74.98	-61.75	1.48	6.29	V
Middle	1560	-62.54	-42.15	-20.39	-73.04	-64.58	0.94	5.13	H
	2336	-61.76	-13	-48.76	-74.84	-63.28	1.24	4.91	H
	3120	-57.52	-13	-44.52	-74.70	-60.21	1.49	6.33	H
	1560	-65.16	-42.15	-23.01	-73.24	-67.20	0.94	5.13	V
	2336	-59.87	-13	-46.87	-74.71	-61.39	1.24	4.91	V
	3120	-59.68	-13	-46.68	-75.01	-62.37	1.49	6.33	V
Highest	1568	-62.98	-42.15	-20.83	-72.98	-65.00	0.94	5.11	H
	2344	-62.17	-13	-49.17	-75.34	-63.71	1.24	4.93	H
	3136	-59.12	-13	-46.12	-76.40	-61.88	1.49	6.40	H
	1568	-65.19	-42.15	-23.04	-73.30	-67.21	0.94	5.11	V
	2344	-60.54	-13	-47.54	-75.38	-62.08	1.24	4.93	V
	3136	-59.97	-13	-46.97	-76.18	-62.73	1.49	6.40	V

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0									
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)
Middle	1552	-61.50	-13	-48.50	-71.9	-63.57	0.94	5.15	H
	2336	-61.49	-13	-48.49	-74.55	-63.01	1.24	4.91	H
	3112	-55.82	-13	-42.82	-72.97	-58.48	1.48	6.29	H
	1552	-61.38	-13	-48.38	-71.9	-63.45	0.94	5.15	V
	2336	-61.76	-13	-48.76	-74.55	-63.28	1.24	4.91	V
	3112	-55.76	-13	-42.76	-72.97	-58.42	1.48	6.29	V

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