# **FCC RF Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: Smartphone

BRAND NAME : BLU

MODEL NAME : LIFE ONE XL
MARKETING NAME : Life One XL

FCC ID : YHLBLULIFEONEXL

**STANDARD** : 47 CFR Part 2, 27(L), 27(M)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 04, 2015 and completely tested on May 06, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

### SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : 1 of 24
Report Issued Date : May 14, 2015
Report Version : Rev. 01

Testing Laboratory

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG540402B	Rev. 01	Initial issue of report	May 14, 2015

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### **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1046	RSS-Gen(6.12) RSS-139 (6.4) RSS-199 (4.4)	Conducted Output Power	Reporting Only	PASS	-
3.5	N/A	RSS-139 (6.4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	RSS-GEN(6.6) RSS-139 (3.1) RSS-199 (4.2)	Occupied Bandwidth	Reporting Only	PASS	-
	§2.1051 §27.53(g)	RSS-139 (6.5)	Conducted Band Edge Measurement(Band 4)	< 43+10log10(P[Watts])		
3.7	§2.1051 §27.53(m)(4)	RSS-199 (4.5)	Conducted Band Edge Measurement (Band 7)	< 5MHz: -10 dBm 5 MHz~6MHz or 26dB(BW): -13 dBm ≥6MHz or 26dB(BW): -25 dBm	PASS	-
2.0	§2.1051 §27.53(g)	RSS-139 (6.5)	Conducted Spurious Emission (Band 4)	< 43+10log10(P[Watts])	DACC	
3.8	§2.1051 §27.53(m)(4)			< 55+10log <sub>10</sub> (P[Watts])	PASS	-
3.9	§2.1055 §27.54	RSS-GEN(6.11) RSS-139 (6.3) RSS-199 (4.3)	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	
	§27.50(h)(2)	RSS-199 (4.4)	Equivalent Isotropic Radiated Power (Band 7)	EIRP < 2Watt	<b>D.</b> 00	
4.4	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	
4.5	§2.1053 §27.53(h)	RSS-139 (6.5)	Radiated Spurious Emission (Band 4)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 4.14 dB at
4.0	§2.1053 §27.53(m)(4)	RSS-199 (4.5)	Radiated Spurious Emission (Band 7)	< 55+10log <sub>10</sub> (P[Watts])	1 700	7653.270 MHz

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### 1 General Description

### 1.1 Applicant

#### **CT** Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

#### 1.2 Manufacturer

#### Tinno Mobile Technology Corp.

4/F, H-3 Building, OCT Eastern industrial Park, No. 1 XiangShan East Road, Nan Shan District, Shenzhen, P. R. China

### 1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smartphone
Brand Name	BLU
Model Name	LIFE ONE XL
FCC ID	YHLBLULIFEONEXL
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/LTE
ELIT cumperts Badias application	WLAN2.4GHz 802.11b/g/n HT20/HT40
EOT Supports Radios application	Bluetooth v3.0+EDR
	Bluetooth v4.0 LE
	Conducted: 353919026679195/353924026679195
rand Name lodel Name CC ID  UT supports Radios application  MEI Code  W Version W Version	Radiation: 353919026678619/353924026678619
	EIRP: 353919026679096/353924026679096
HW Version	V1.0
SW Version	BLU_X020_V01_GENERIC
EUT Stage	Pre-Production

### 1.4 Product Specification subjective to this standard

Product	Specification subjective to this standard
Tx Frequency	LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz
Rx Frequency	LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz
Bandwidth	LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 7: 5MHz/ 10MHz / 15MHz / 20MHz
IMaximiim ()iitniit Power to Antenna	LTE Band 4: 22.09 dBm LTE Band 7: 22.73 dBm
Type of Modulation	QPSK / 16QAM

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### 1.5 Modification of EUT

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

### 1.6 Emission Designator

LTE Band 4		QPSK			16QAM			
BW(MHz)			Frequency Tolerance (ppm)  Maximum EIRP(W)		Frequency Tolerance (ppm)	Maximum EIRP(W)		
1.4	1M10G7D	-	0.0145	1M10W7D	-	0.0120		
3	2M73G7D	-	0.0127	2M72W7D	-	0.0137		
5	4M50G7D	-	0.0128	4M49W7D	-	0.0102		
10	<b>0</b> 9M11G7D 0.0023		0.0093	9M01W7D	-	0.0109		
15	13M5G7D	-	0.0075	13M5W7D	-	0.0055		
20	18M4G7D	-	0.0068	18M4W7D	-	0.0066		
LTE Band 7		QPSK		16QAM				
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		
5	4M51G7D	-	0.0275	4M50W7D	-	0.0229		
10	9M11G7D	0.0028	0.0254	9M03W7D	-	0.0236		
15	13M4G7D	-	0.0244	13M5W7D	-	0.0234		
20	18M4G7D	-	0.0236	18M5W7D	-	0.0235		

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### 1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,
	Nanshan District, Shenzhen, Guangdong, P. R. China
Test Site Location	TEL: +86-755-8637-9589
	FAX: +86-755-8637-9595
Toot Site No	Sporton Site No.
Test Site No.	TH01-SZ

Test Site	SPORTON INTERNATIONAL (SHEN)	SPORTON INTERNATIONAL (SHENZHEN) INC.							
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China								
	TEL: +86-755- 3320-2398								
Took Site No	Sporton Site No.	FCC/IC Registration No.							
Test Site No.	03CH01-SZ	831040/4086F							

### 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, 27(L), 27(M)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-139 Issue 2
- IC RSS-199 Issue 2
- IC RSS-Gen Issue 4

#### Remark:

- 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.

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## 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.

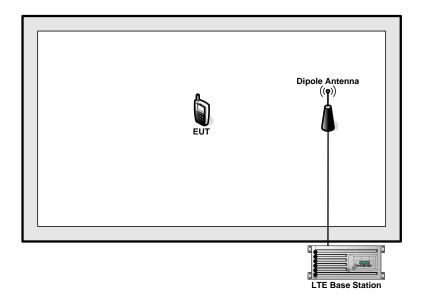
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Tool Name	D d		В	andwic	lth (MHz	<u>z</u> )		Modu	ulation		RB#		Test Channel		nnel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max. Output	4	V	v	V	v	v	V	V	V	v	v	v	V	v	V
Power	7	-	•	V	v	v	V	V	V	v	v	v	v	v	V
Peak-to-Average	4						V	٧	V	V		v	V	v	V
Ratio	7	-	-				V	V	v	v		v	v	v	V
26dB and 99%	4	y	V	V	v	v	V	٧	V			v	V	v	V
Bandwidth	7	-	-	V	v	v	v	V	V			v	V	v	V
Conducted	4	y	v	V	v	v	V	٧	V	V		v	V		V
Band Edge	7	-	-	V	v	v	v	V	V	v		v	V		v
Conducted Spurious	4	v	v	V	v	v	V	V	v	v			v	v	v
Emission	7	-	-	V	v	v	V	V	V	v			y	v	V
Frequency	4				v			٧				v		v	
Stability	7	-	-		v			V				v		v	
E.I.R.P.	4	V	٧	V	v	v	V	V	V	v			v	v	V
E.I.K.I	7	-	-	V	v	v	V	V	V	v			V	v	v
Radiated Spurious	4	v	v	٧	v	v	٧	V		v			v	v	V
Emission	7	-	-	V	v	v	V	V		v			v	v	v
	1. The	e mark	c " <sub>v</sub> " n	neans	that th	is co	nfigur	ation is c	hosen for	testi	ng			I	
	2. The	e mark	k "-" m	eans	that thi	s bar	ndwidt	h is not s	supported						
Note	3. The	e devi	ce is i	nvesti	gated f	rom 3	30MH	z to 10 ti	mes of fur	ndam	ental s	signal f	or ra	diate	d
	spu	ırious	emiss	ion te	st unde	er diff	erent	RB size/	offset and	l mod	lulatior	ns in ex	xplor	atory	test.
	Sul	osequ	ently,	only tl	ne wor	st cas	se em	issions a	re reporte	ed.					

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# 2.2 Connection Diagram of Test System



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### 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.	DC Power Supply	GW INSTEK	GPS-3030D	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 5.0 dB and 10dB attenuator.

#### Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 5.0 + 10 = 15.0 (dB)

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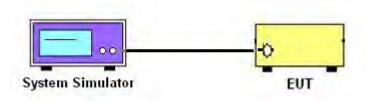
### 3 Conducted Test Items

### 3.1 Measuring Instruments

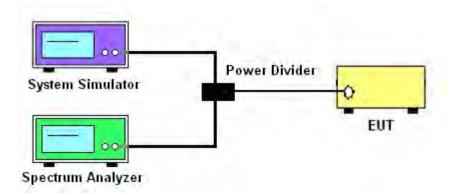
See list of measuring instruments of this test report.

### 3.2 Test Setup

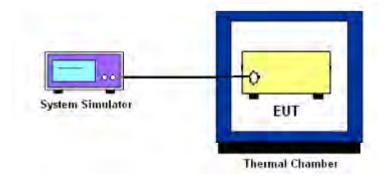
### 3.2.1 Conducted Output Power



# 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.

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#### 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.

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### 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.

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### 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.

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### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

27.53 (h) and RSS - 139 for Band 4

For operations in the 1710 - 1755 MHz band, the FCC limit is  $43 + 10log_{10}(P[Watts])$  dB below the transmitter power P(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.

#### 27.53(m)(4) and RSS-199 for Band 7:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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#### 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.
- The band edges of low and high channels for the highest RF powers were measured. Set RBW= 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 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W)- [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
    - = -13dBm.
  - <For Band 7>

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

- = P(W)- [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.

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### 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.

For Band 7:

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 55 + 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.
- 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 + 10log(P)dB below the transmitter power P(Watts)
  - = P(W)- [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.
- 9. For Band 7

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

- = P(W)- [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.

### 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  $\pm 0.00025\%$  ( $\pm 2.5$ 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.
- With power OFF, the temperature was decreased to -30°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°C step up to 50°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±5° 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.

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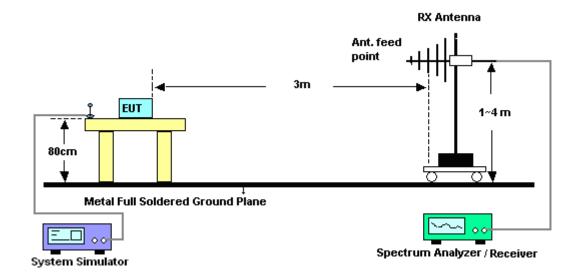
### 4 Radiated Test Items

### 4.1 Measuring Instruments

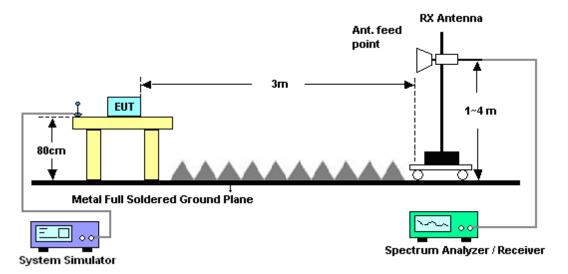
See list of measuring instruments of this test report.

## 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.

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### 4.4 Effective Isotropic Radiated Power

#### 4.4.1 Description of the EIRP Measurement

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 7 and 1 watt with LTE band 4.

#### 4.4.2 Test Procedures

- The testing follows FCC KDB 971168 v02r02 Section 5.2.1. and ANSI / TIA-603-C-2004 Section 2.2.17.
- 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.
   Note: For IC RSS-199, set PEAK detector instead of RMS detector.
- 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 + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

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	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				

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#### 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 Band 7

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

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 + 10log(P)dB below the transmitter power P(Watts)

- = P(W)- [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

For Band 7:

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

- = P(W) [55 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [55 + 10log(P)] (dB)
- = -25dBm.
- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 13. ERP (dBm) = EIRP 2.15

# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Apr. 12, 2015	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Sep. 16, 2014	Apr. 12, 2015	Sep. 15, 2015	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	May 06, 2015	May 25, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Sep. 25, 2014	May 06, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL 6112D	23188	30MHz~2GHz	Nov. 07, 2014	May 06, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	May 06, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101073	18GHz~40GHz	Jun. 09, 2014	May 06, 2015	Jun. 08, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	May 06, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	MITEQ	AMF-7D-00 101800-30-1	1707137	1GHz~18GHz	May 08, 2014	May 06, 2015	May 07, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	May 06, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	May 06, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM EM1000 N/A		0~360 degree	NCR	May 06, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 06, 2015	NCR	Radiation (03CH01-SZ)

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#### **Uncertainty of Evaluation** 6

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

Measuring Uncertainty for a Level of	3.9 dB
Confidence of 95% (U = 2Uc(y))	3.9 dB

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# **Appendix A. Test Results of Conducted Test**

Conducted Output Power(Average power)

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		L	TE Band	4 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0		21.57	21.78	21.93
1.4	1	2		21.66	21.86	21.95
1.4	1	5		21.54	21.79	22.02
1.4	3	0	QPSK	21.64	21.88	22.01
1.4	3	1		21.73	21.90	22.00
1.4	3	2		21.64	21.84	22.06
1.4	6	0		20.68	20.94	21.00
1.4	1	0		20.60	20.58	20.73
1.4	1	2		20.54	20.56	20.72
1.4	1	5		20.47	20.52	20.61
1.4	3	0	16-QAM	20.62	20.72	20.85
1.4	3	1		20.74	20.71	20.84
1.4	3	2		20.66	20.65	20.79
1.4	6	0		19.75	19.84	19.98
3	1	0		21.69	21.75	22.01
3	1	7		21.64	21.75	21.89
3	1	14		21.74	21.79	21.88
3	8	0	QPSK	20.68	20.86	21.02
3	8	4		20.63	20.90	20.91
3	8	7		20.66	20.75	20.96
3	15	0		20.61	20.83	21.02
3	1	0		20.97	20.79	21.17
3	1	7		20.84	21.12	21.26
3	1	14		20.94	21.04	21.13
3	8	0	16-QAM	19.65	19.80	19.97
3	8	4		19.61	19.82	19.98
3	8	7		19.65	19.79	19.93
3	15	0		19.80	19.96	20.06

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		L	TE Band	4 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.59	21.84	21.96
5	1	12		21.51	21.67	21.93
5	1	24		21.56	21.79	21.91
5	12	0	QPSK	20.72	20.81	20.99
5	12	6		20.67	20.89	21.06
5	12	11		20.74	20.72	21.02
5	25	0		20.70	20.85	20.94
5	1	0		20.56	20.83	20.98
5	1	12		20.58	20.77	20.91
5	1	24		20.63	20.76	20.85
5	12	0	16-QAM	19.74	19.96	20.14
5	12	6		19.75	20.00	20.10
5	12	11		19.72	19.85	20.07
5	25	0		19.68	19.86	20.11
10	1	0		21.60	21.91	22.03
10	1	24		21.63	21.90	22.00
10	1	49		21.74	21.90	21.94
10	25	0	QPSK	20.64	20.77	21.07
10	25	12		20.67	20.90	21.03
10	25	24		20.73	20.83	21.02
10	50	0		20.60	20.76	20.93
10	1	0		20.30	20.50	20.76
10	1	24		20.28	20.54	20.65
10	1	49		20.24	20.56	20.52
10	25	0	16-QAM	19.66	19.86	20.06
10	25	12		19.63	19.87	20.04
10	25	24		19.80	19.91	19.93
10	50	0		19.73	19.84	19.99

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		L	TE Band	4 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		21.66	21.84	22.00
15	1	37		21.67	21.78	22.06
15	1	74		21.69	21.88	22.01
15	36	0	QPSK	20.56	20.74	20.96
15	36	18		20.67	20.80	20.99
15	36	37		20.66	20.80	20.90
15	75	0		20.52	20.79	20.89
15	1	0		20.85	21.05	21.15
15	1	37		20.83	20.93	21.24
15	1	74		20.81	21.06	21.14
15	36	0	16-QAM	19.66	19.79	20.02
15	36	18		19.75	19.88	19.96
15	36	37		19.57	19.98	19.89
15	75	0		19.53	19.83	19.96
20	1	0		21.72	21.71	21.99
20	1	49		21.75	21.92	22.09
20	1	99		21.72	21.88	21.91
20	50	0	QPSK	20.70	20.85	20.96
20	50	24		20.60	20.80	20.92
20	50	49		20.57	20.82	20.90
20	100	0		20.64	20.80	20.95
20	1	0		20.42	20.58	20.69
20	1	49		20.46	20.59	20.79
20	1	99		20.40	20.69	20.74
20	50	0	16-QAM	19.70	19.77	19.99
20	50	24		19.67	19.86	20.04
20	50	49		19.55	19.96	19.85
20	100	0		19.72	19.88	20.01

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		L	TE Band	7 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0		21.95	22.17	21.98
5	1	12		21.97	22.15	22.10
5	1	24		21.98	22.13	22.14
5	12	0	QPSK	21.03	21.39	21.24
5	12	6		21.02	21.32	21.26
5	12	11		20.97	21.31	21.24
5	25	0		21.00	21.31	21.24
5	1	0		20.60	21.23	21.43
5	1	12		21.07	21.22	21.44
5	1	24		20.94	21.21	21.53
5	12	0	16-QAM	20.07	20.42	20.41
5	12	6		20.09	20.34	20.34
5	12	11		20.00	21.35	20.32
5	25	0		20.08	20.36	20.28
10	1	0		22.13	22.07	21.95
10	1	24		22.00	22.35	22.20
10	1	49		22.14	22.40	22.18
10	25	0	QPSK	21.01	21.25	21.20
10	25	12		21.01	21.36	21.27
10	25	24		20.81	21.35	21.22
10	50	0		20.97	21.23	21.20
10	1	0		21.26	21.43	21.29
10	1	24		21.09	21.51	21.23
10	1	49		21.16	21.49	21.14
10	25	0	16-QAM	20.06	20.17	20.62
10	25	12		20.06	20.20	20.27
10	25	24		19.85	20.31	20.21
10	50	0		19.90	20.16	20.14

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		L	TE Band	7 Maximum Average	Power [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0		22.15	22.50	22.16
15	1	37		22.15	22.31	22.18
15	1	74		22.17	22.65	22.02
15	36	0	QPSK	21.02	21.28	21.03
15	36	18		21.09	21.31	21.24
15	36	37		20.88	21.31	21.23
15	75	0		20.98	21.23	21.09
15	1	0		21.27	21.12	21.12
15	1	37		21.16	21.14	21.22
15	1	74		20.94	21.41	21.21
15	36	0	16-QAM	19.98	20.29	20.00
15	36	18		20.01	20.30	20.20
15	36	37		19.86	20.28	20.26
15	75	0		19.97	20.28	20.14
20	1	0		22.11	22.24	22.04
20	1	49		22.08	22.29	22.10
20	1	99		22.18	22.73	22.22
20	50	0	QPSK	20.97	21.23	21.17
20	50	24		20.97	21.28	21.18
20	50	49	_	20.99	21.29	21.19
20	100	0		20.92	21.24	20.93
20	1	0	_	21.30	21.42	21.58
20	1	49	_	21.24	21.48	21.54
20	1	99		21.25	21.67	21.55
20	50	0	16-QAM	20.00	20.20	20.15
20	50	24		20.06	20.25	20.15
20	50	49		19.94	20.25	20.52
20	100	0		19.89	20.29	20.33

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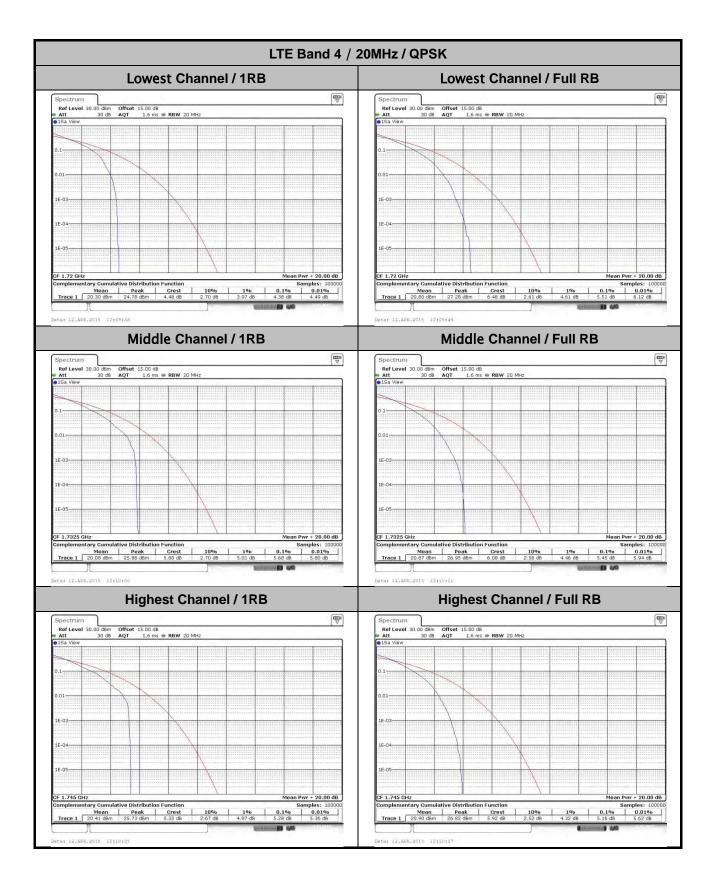
# Peak-to-Average Ratio

Mode					
Mod.	QP	SK	160	Limit: 13dB	
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.38	5.51	5.62	6.49	
Middle CH	5.68	5.45	6.72	6.41	PASS
Highest CH	5.28	5.16	6.58	6.23	

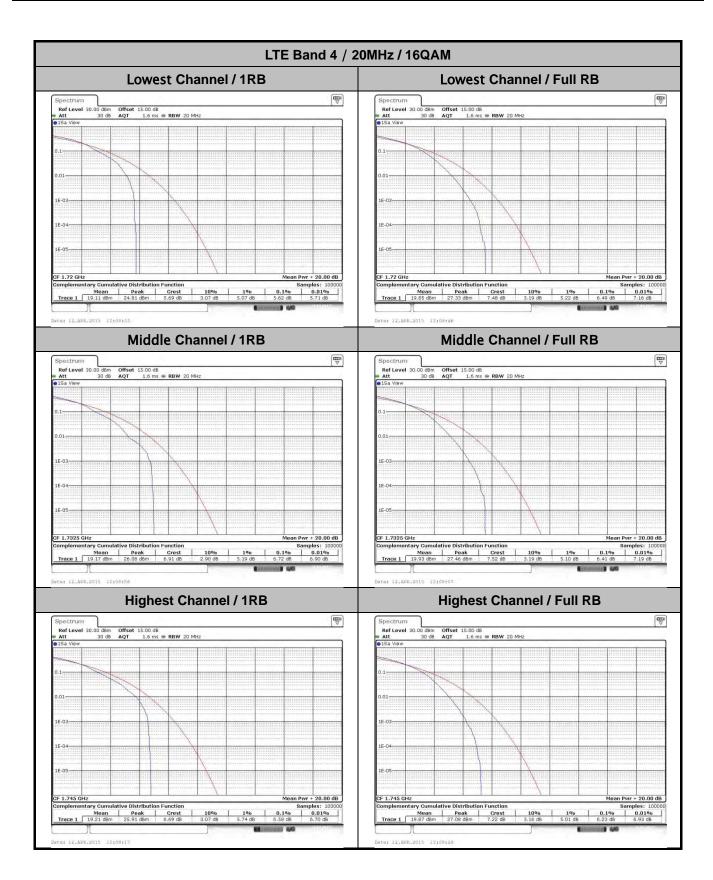
Mode					
Mod.	QP	SK	16G	Limit: 13dB	
RB Size	1RB	Full RB	1RB	RB Size	Result
Lowest CH	4.52	4.90	5.33	5.94	
Middle CH	4.43	5.01	5.45	6.06	PASS
Highest CH	4.26	4.75	5.30	5.71	

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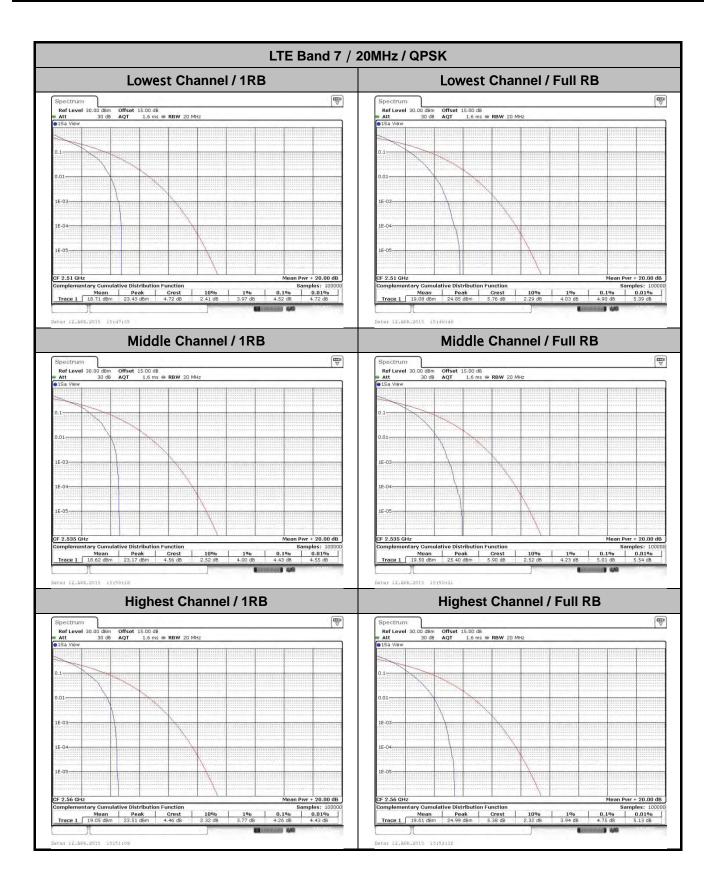
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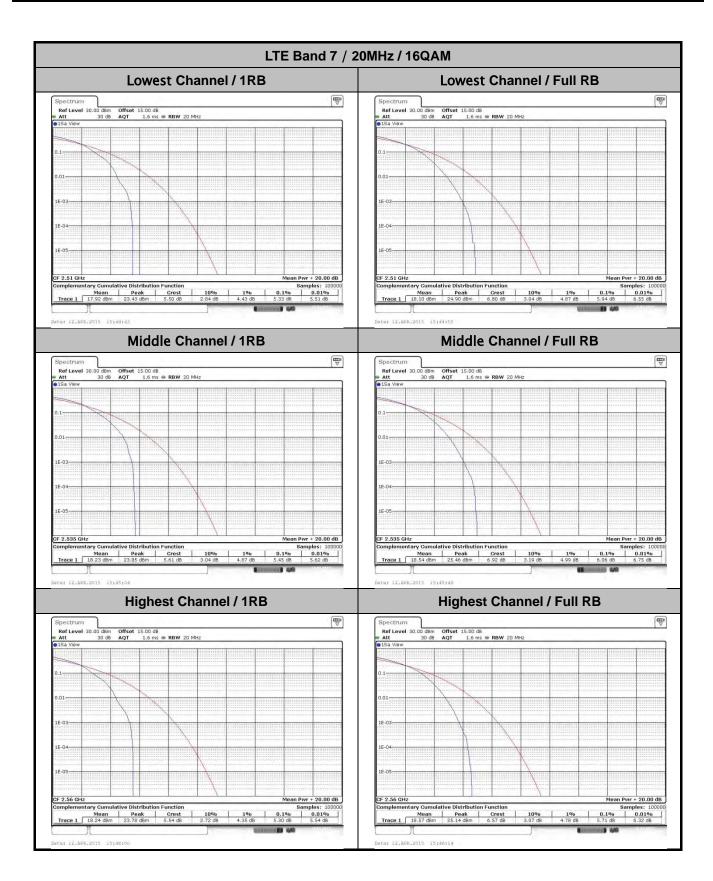
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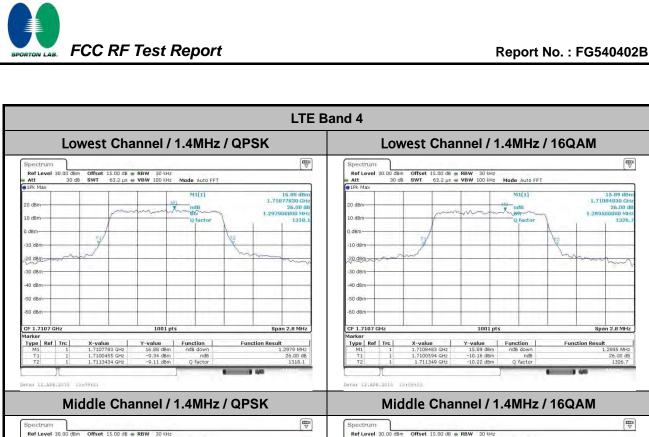
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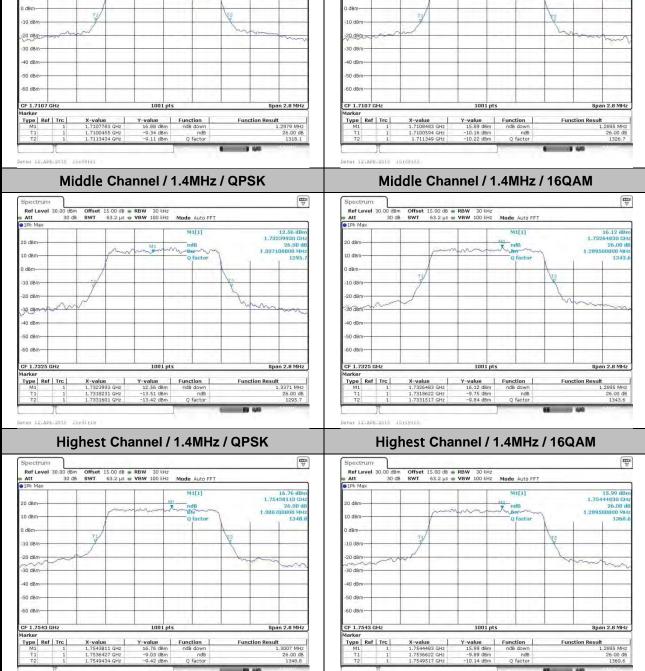
Mode		LTE Band 4 : 26dB BW(MHz)														
BW	1.4MHz		1.4MHz		BW 1.4MHz		3N	lHz	5M	lHz	101	ИHz	15N	ИHz	201	ИHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM				
Lowest CH	1.298	1.290	3.051	3.045	5.025	5.035	10.050	10.010	14.655	14.775	20.380	20.380				
Middle CH	1.337	1.290	3.033	3.057	5.015	5.015	10.050	10.010	14.685	14.565	20.260	20.100				
Highest CH	1.301	1.290	3.051	3.039	5.005	5.005	9.970	9.930	14.625	14.595	20.060	20.340				

Mode		LTE Band 7 : 26dB BW(MHz)										
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	_	-	-	5.055	4.995	10.030	10.030	14.625	14.685	20.340	20.380
Middle CH	-	_	-	-	5.025	5.055	10.090	9.930	14.565	14.565	20.180	20.180
Highest CH	-	_	-	-	5.035	5.055	10.070	9.970	14.595	14.745	20.340	20.180

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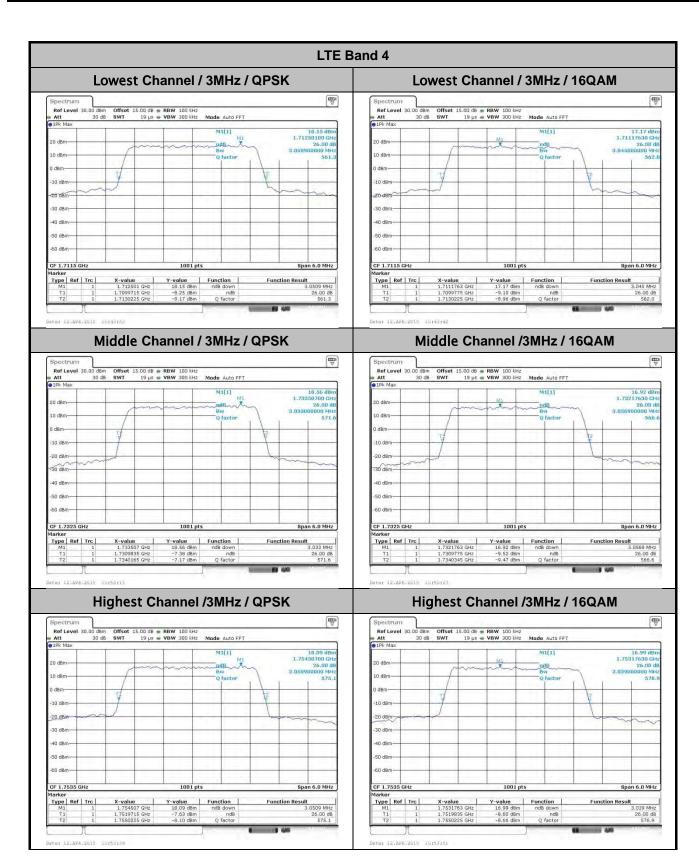




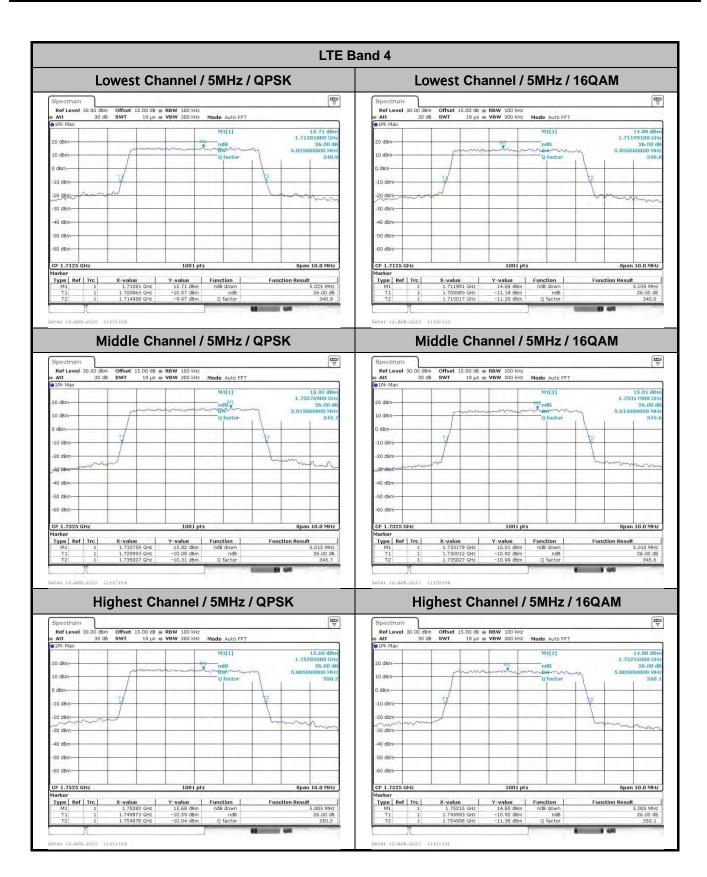
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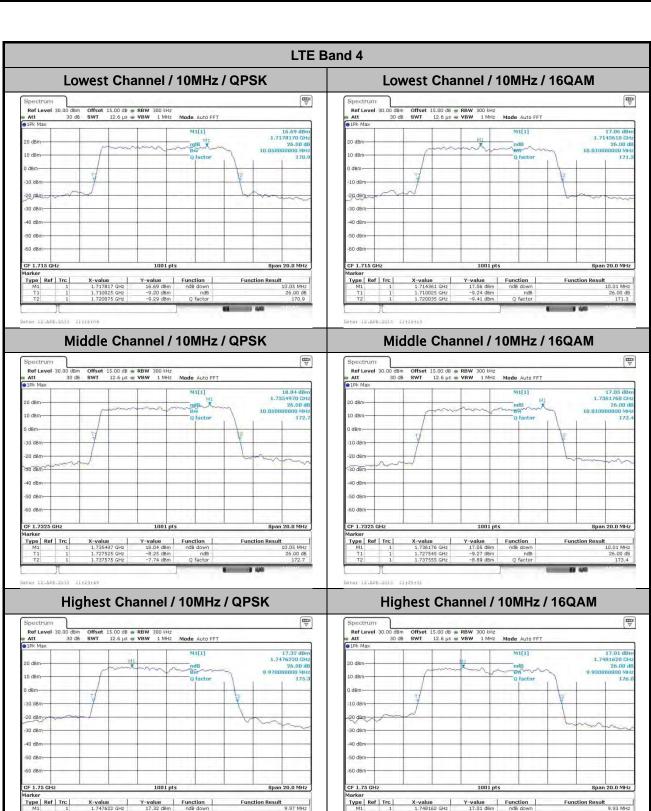
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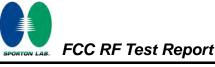
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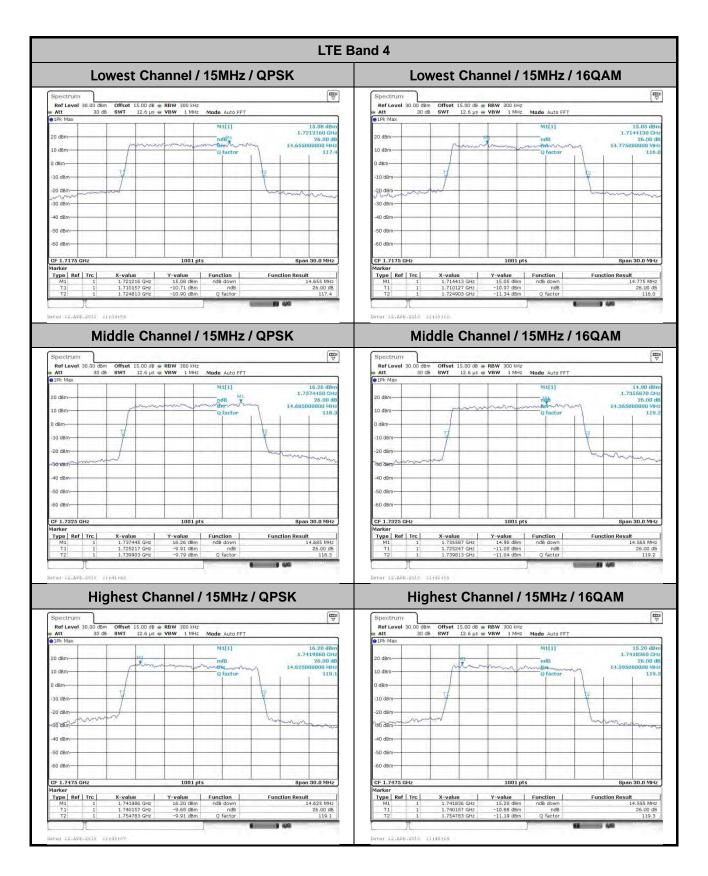


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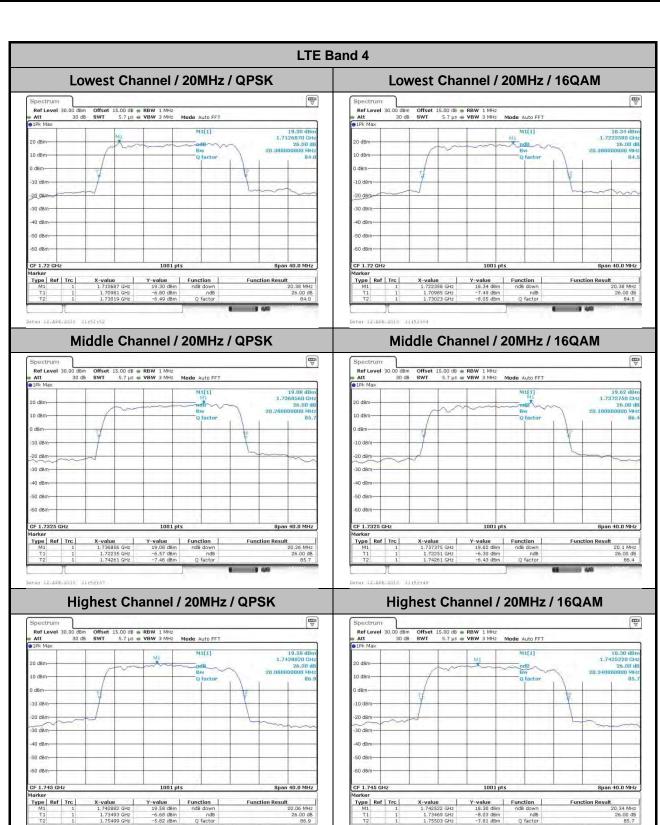


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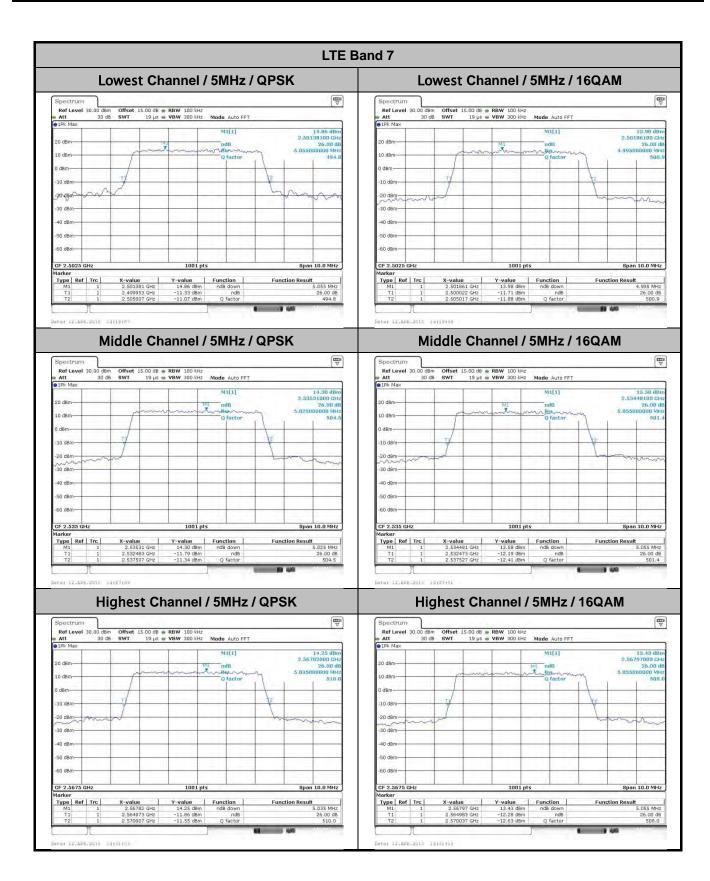




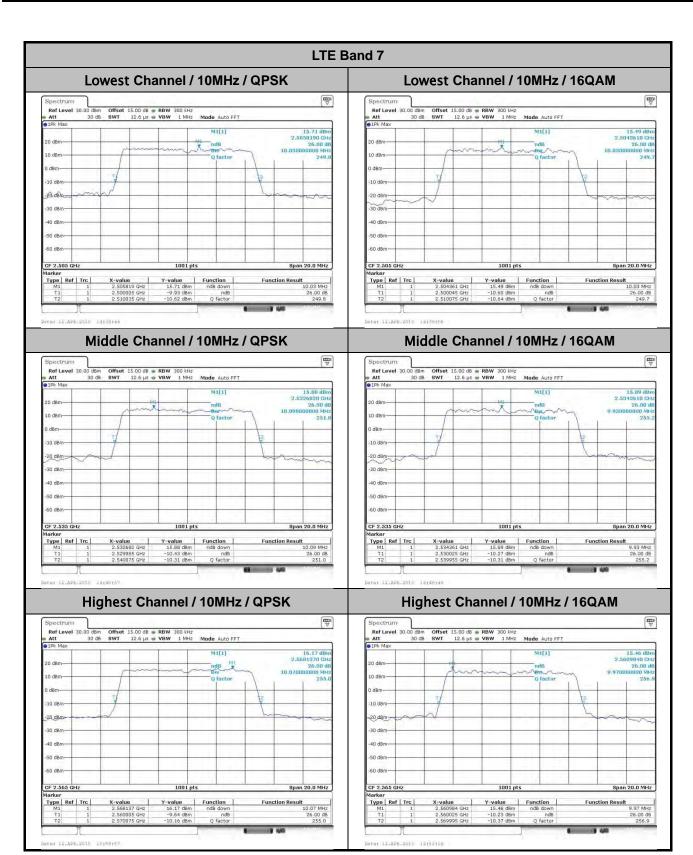
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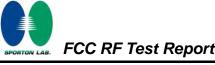
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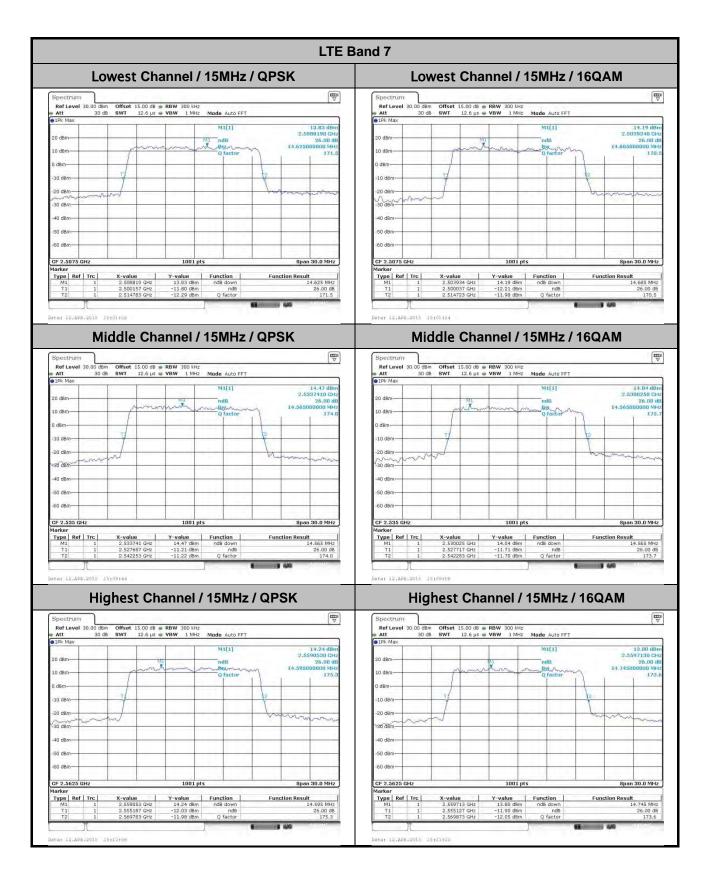


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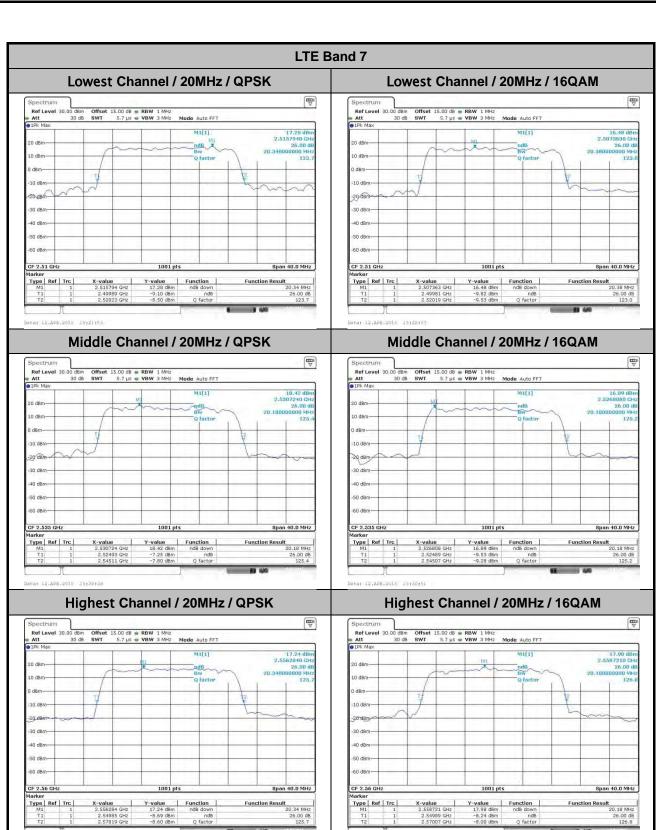


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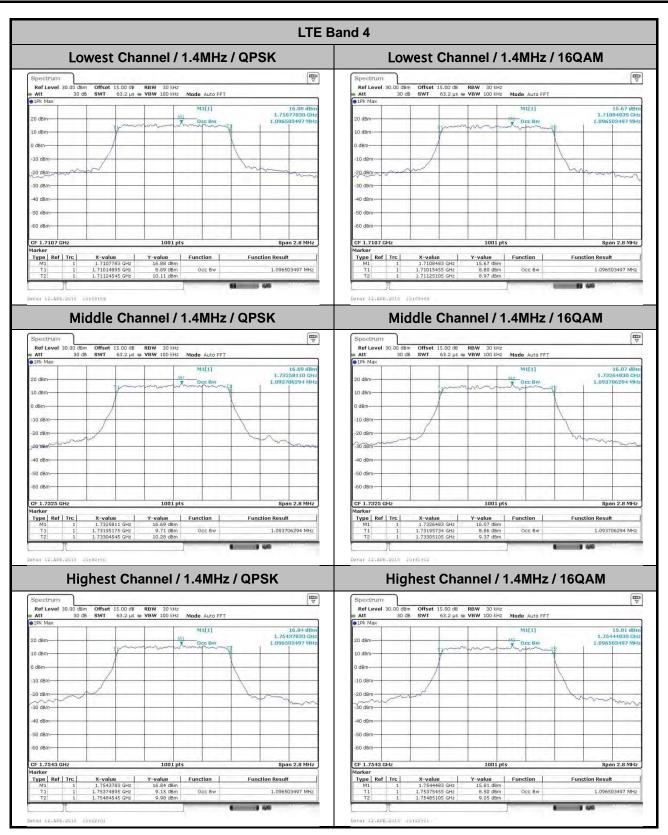
## **Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.097	1.097	2.733	2.721	4.496	4.486	9.111	9.011	13.457	13.427	18.422	18.382
Middle CH	1.094	1.094	2.721	2.721	4.496	4.486	9.031	8.991	13.397	13.487	18.262	18.342
Highest CH	1.097	1.097	2.721	2.727	4.496	4.486	9.071	9.011	13.457	13.427	18.142	18.142

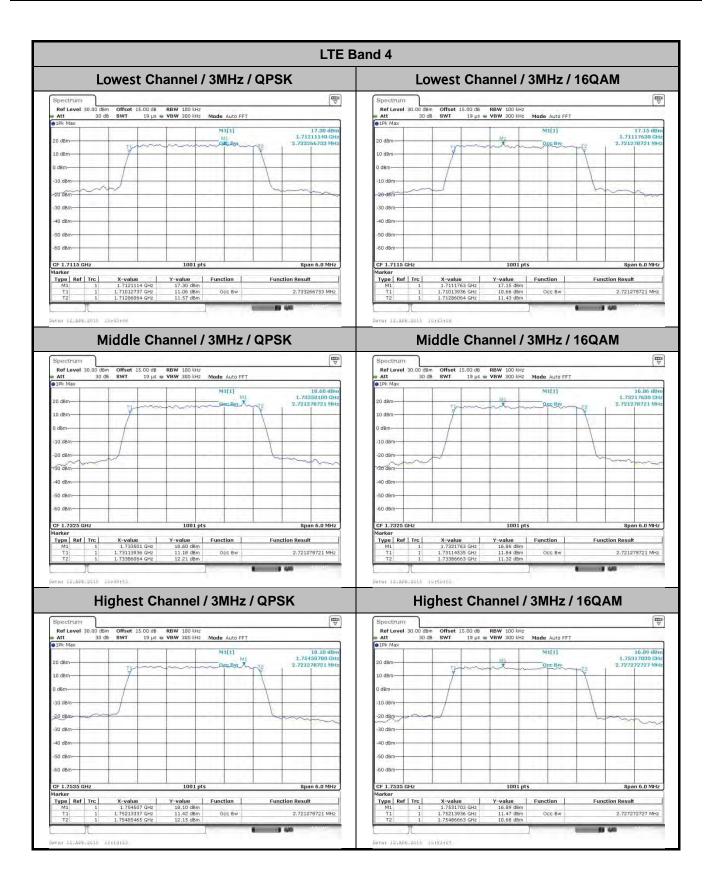
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	_	-	-	4.505	4.486	9.071	9.031	13.427	13.487	18.422	18.462
Middle CH	-	_	-	-	4.486	4.496	9.111	8.991	13.427	13.457	18.302	18.262
Highest CH	-	_	-	-	4.496	4.486	9.031	9.011	13.427	13.457	18.342	18.302

SPORTON INTERNATIONAL (SHENZHEN) INC.

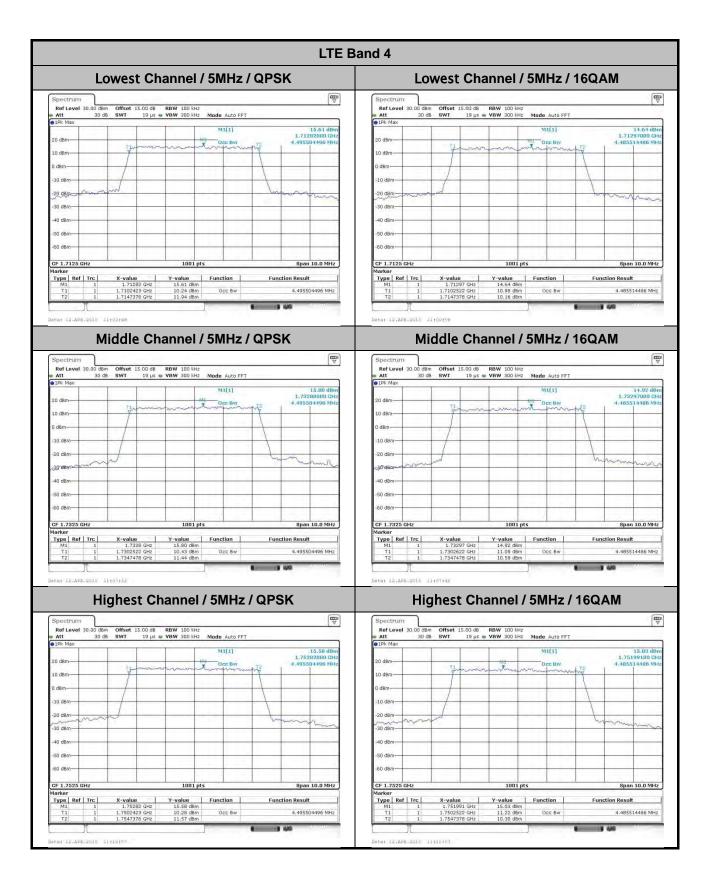
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFEONEXL Page Number : A23 of A72
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