FCC RF Test Report

APPLICANT : Shenzhen Tinno Mobile Technology Corp.

EQUIPMENT: Smart Phone

MODEL NAME : U626AA

FCC ID : XD6U626AA

STANDARD : 47 CFR Part 2, 27(D)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Dec. 31, 2021 ~ Jan. 20, 2022

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Donale Chen

Approved by: Eric Shih / Manager

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 1 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Cert #5145.01

Report No.: FG1N0415C

TABLE OF CONTENTS

		N HISTORY	
SU		Y OF TEST RESULT	
1	GENE	RAL DESCRIPTION	
	1.1	Applicant	5
	1.2	Manufacturer	5
	1.3	Product Feature of Equipment Under Test	5
	1.4	Product Specification of Equipment Under Test	
	1.5	Modification of EUT	5
	1.6	Maximum EIRP Power and Emission Designator	
	1.7	Testing Site	6
	1.8	Test Software	6
	1.9	Applied Standards	7
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	
	2.1	Test Mode	8
	2.2	Connection Diagram of Test System	9
	2.3	Support Unit used in test configuration and system	9
	2.4	Measurement Results Explanation Example	
	2.5	Frequency List of Low/Middle/High Channels	10
3	CON	DUCTED TEST ITEMS	11
	3.1	Measuring Instruments	11
	3.2	Test Setup	11
	3.3	Test Result of Conducted Test	
	3.4	Conducted Output Power Measurement	
	3.5	Peak-to-Average Ratio	13
	3.6	EIRP	14
	3.7	Occupied Bandwidth	15
	3.8	Conducted Band Edge Measurement	16
	3.9	Conducted Spurious Emission Measurement	17
		Frequency Stability Measurement	
4	RADI	ATED TEST ITEMS	
	4.1	Measuring Instruments	19
	4.2	Test Setup	19
	4.3	Test Result of Radiated Test	
	4.4	Radiated Spurious Emission Measurement	21
5		OF MEASURING EQUIPMENT	
6		RTAINTY OF EVALUATION	23
ΑP	PENDI	X A. TEST RESULTS OF CONDUCTED TEST	
ΑP	PENDI	X B. TEST RESULTS OF RADIATED TEST	
ΑP	PENDI	X C. TEST SETUP PHOTOGRAPHS	

Report No.: FG1N0415C

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1N0415C	Rev. 01	Initial issue of report	Feb. 10, 2022

Sporton International Inc. (ShenZhen)
TEL: 86-755-8637-9589

FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 3 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	_	Report Only	-
3.5	-	Peak-to-Average Ratio	_	Report Only	
3.6	§27.50 (a)(3)	EIRP	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	_	Report Only	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 11.95 dB at 9222.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 4 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

1 General Description

1.1 Applicant

Shenzhen Tinno Mobile Technology Corp.

TINNO Building, No.33, Xiandong Rd, Xili, Nanshan District, Shenzhen, Guangdong Province, PRC

Report No.: FG1N0415C

1.2 Manufacturer

Shenzhen Tinno Mobile Technology Corp.

TINNO Building, No.33, Xiandong Rd, Xili, Nanshan District, Shenzhen, Guangdong Province, PRC

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment Smart Phone						
Model Name	U626AA					
FCC ID	XD6U626AA					
IMELO - I	Conducted: 866289050009325					
IMEI Code	Radiation: 861679050034064					
HW Version	V1.0					
SW Version	U626AAV01.02.10					
EUT Stage	Identical Prototype					

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Feature						
Tx Frequency	LTE Band 30 : 2305 MHz ~ 2315 MHz					
Rx Frequency	LTE Band 30 : 2350 MHz ~ 2360 MHz					
Bandwidth	5MHz / 10MHz					
Antenna Gain	0.50 dBi					
Type of Modulation	QPSK / 16QAM / 64QAM					

1.5 Modification of EUT

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

 Sporton International Inc. (ShenZhen)
 Page Number
 : 5 of 23

 TEL: 86-755-8637-9589
 Report Issued Date
 : Feb. 10, 2022

 FAX: 86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID : XD6U626AA Report Template No.: BU5-FGLTE27D Version 2.0

1.6 Maximum EIRP Power and Emission Designator

Ľ	TE Band 30	QP	SK	16QAM/64QAM			
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)		
5	2307.5 ~ 2312.5	0.2291	4M50G7D	0.1954	4M51W7D		
10	2310.0	0.2301	9M03G7D	0.1892	9M05W7D		

Report No.: FG1N0415C

Note: All modulations have been tested, and only the worst test results of BPSK & QPSK are shown in the report .

1.7 Testing Site

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

Test Firm	Sporton International Inc. (Shenzhen)								
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595								
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
1001 0110 1101	TH01-SZ	CN1256	421272						

Test Firm	Sporton International Inc. (Shenzhen)							
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398							
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
	03CH02-SZ	CN1256	421272					

1.8 Test Software

Item	Site	Manufacturer	Name	Version		
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a		

 Sporton International Inc. (ShenZhen)
 Page Number
 : 6 of 23

 TEL: 86-755-8637-9589
 Report Issued Date
 : Feb. 10, 2022

 FAX: 86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID : XD6U626AA Report Template No.: BU5-FGLTE27D Version 2.0

1.9 Applied Standards

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

- 47 CFR Part 2, Part 27(D)
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 7 of 23

Report Issued Date : Feb. 10, 2022

Report Version : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB#			Test Channel			
lest Cases		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	-	1	Half	Full	L	M	Н
Max. Output		-	-	٧		-	-	V	٧	V	-	٧	V	V	٧	٧	٧
Power	30	1	-		٧	-	•	V	V	V	-	٧	V	V		٧	
Peak-to-Average Ratio	30	-	-		٧	-	-	٧	٧	v	-	٧		V		٧	
ELDD	30	•	-	٧		•	•	V	V	V	-	٧			٧	٧	٧
E.I.R.P	30	-	-		٧	-	-	V	V	V	-	٧				٧	
26dB and 99%	30	-	-	٧		-	-	V	٧	٧	-			٧	٧	٧	٧
Bandwidth	30	-	-		٧	-	-	V	V	V	-			٧		٧	
Conducted	30	-	-	٧		-	-	V	V	V	-	٧		V	٧		٧
Band Edge	30	-	-		٧	-	-	V	V	V	-	٧		٧		٧	
Conducted		-	-	٧		-	-	V	V	v	-	٧			v	٧	v
Spurious	30							.,	.,	.,		.,					
Emission		-	-		V	-	-	V	V	V	-	٧				V	
Frequency	30	_	_		v	_	_	V			-			v		٧	
Stability																	
Radiated																	
Spurious	30							V	Vorst cas	se						٧	
Emission																	
1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case en are reported.					on tes missi	st ons											

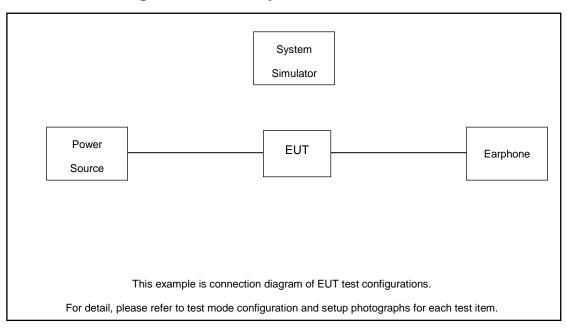
Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 8 of 23
Report Issued Date : Feb. 10, 2022

Report No.: FG1N0415C

Report Version : Rev. 01
Report Template No.: BU5-FGLTE27D Version 2.0

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Earphone	МОТО	N/A	N/A	Unshielded,1.2m	N/A
2.	Base Station	Anritsu	MT8821C	Fcc DoC	N/A	Shielded, 1.5m
1 3	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 9 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

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.

Report No.: FG1N0415C

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 dB and 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 5 + 10 = 15 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List									
BW [MHz] Channel/Frequency(MHz) Lowest Middle Highest									
10	Channel	-	27710	-					
10	Frequency	-	2310	-					
F	Channel	27685	27710	27735					
5	Frequency	2307.5	2310	2312.5					

 Sporton International Inc. (ShenZhen)
 Page Number
 : 10 of 23

 TEL: 86-755-8637-9589
 Report Issued Date
 : Feb. 10, 2022

 FAX: 86-755-8637-9595
 Report Version
 : Rev. 01

FCC ID : XD6U626AA Report Template No.: BU5-FGLTE27D Version 2.0

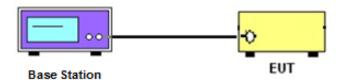
3 Conducted Test Items

3.1 Measuring Instruments

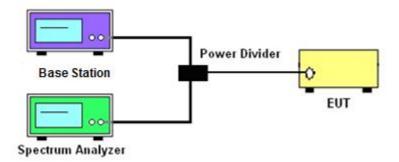
See list of measuring instruments of this test report.

3.2 Test Setup

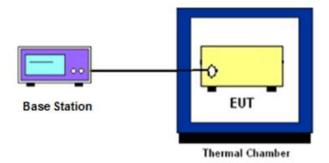
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 11 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 12 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

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 ANSI C63.26 Section 5.2.3.4 (CCDF).
- 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.

Page Number : 13 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

3.6 EIRP

3.6.1 Description of EIRP

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.6.2 Test Procedures

- 1. According to KDB 412172 D01 Power Approach,
- 2. EIRP = P_T + G_T L_C , ERP = EIRP -2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- 6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

Report Issued Date: Feb. 10, 2022

: 15 of 23

: Rev. 01

Page Number

Report Version

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.8.2 Test Procedures

- The testing follows ANSI C63.26 section 5.7
- 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.
- 4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. Checked that all the results comply with the emission limit line.

Example:

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.

3.9 Conducted Spurious Emission Measurement

3.9.1 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 70 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 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.
- 7. Set spectrum analyzer with RMS detector.
- 8. Taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
 - = P(W) [70 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
 - = -40dBm

3.10Frequency Stability Measurement

3.10.1 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 ±0.00025% (±2.5ppm) of the center frequency.

3.10.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. 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.
- 4. 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.

3.10.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5.
- 2. The EUT was placed in a temperature chamber at 20±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 for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 18 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

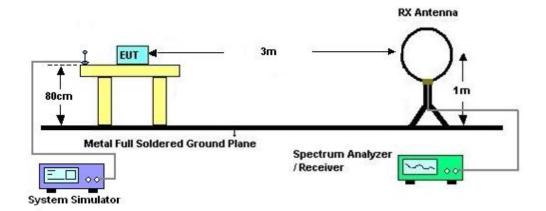
4 Radiated Test Items

4.1 Measuring Instruments

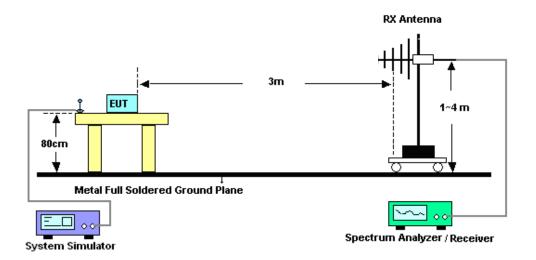
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test below 30MHz



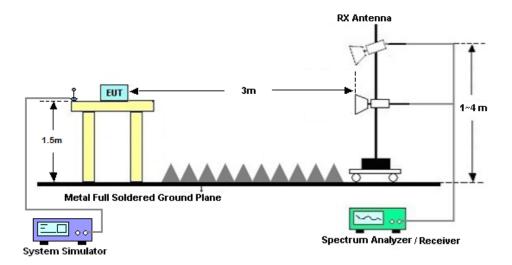
4.2.2 For radiated test from 30MHz to 1GHz



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 19 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 20 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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

Report No.: FG1N0415C

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 70 + 10 log (P) dB.

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

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

```
EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain ERP (dBm) = EIRP - 2.15
```

 The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

- = P(W)- [70 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [70 + 10\log(P)] (dB)$
- = -40dBm.

FCC ID : XD6U626AA Report Template No.: BU5-FGLTE27D Version 2.0

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	Apr. 08, 2021	Dec. 31, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Dec. 31, 2021	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Dec. 31, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 13, 2021	Jan. 20, 2022	Jul. 12, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Jan. 20, 2022	Jun. 21, 2022	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2021	Jan. 20, 2022	Jul. 14, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 11, 2021	Jan. 20, 2022	Apr. 10, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 13, 2021	Jan. 20, 2022	Jul. 12, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Jan. 20, 2022	Apr. 10, 2022	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	Jan. 20, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Jan. 20, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	Jan. 20, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jan. 20, 2022	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jan. 20, 2022	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jan. 20, 2022	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 22 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of	2.47dB
Confidence of 95% (U = 2Uc(y))	2.4705

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

Measuring Uncertainty for a Level of	3.31dB
Confidence of 95% (U = 2Uc(y))	3.31ub

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.72dB
Confidence of 95% (U = 2Uc(y))	3.72UB

Sporton International Inc. (ShenZhen) TEL: 86-755-8637-9589

FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : 23 of 23
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Report No.: FG1N0415C

Appendix A. Test Results of Conducted Test

				Power	Power	Power
BW [MHz]	Modulation	RB Size	RB Offset	Low	Middle	High
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.
	Channel				27710	
	Frequency	/ (MHz)			2310	1
10	QPSK	1	0	-	22.98	-
10	QPSK	1	25	-	23.12	-
10	QPSK	1	49	-	23.06	-
10	QPSK	25	0	-	22.02	-
10	QPSK	25	12	-	22.06	-
10	QPSK	25	25	-	22.01	-
10	QPSK	50	0	-	22.02	-
10	16QAM	1	0	-	22.14	-
10	16QAM	1	25	-	22.27	-
10	16QAM	1	49	-	22.22	-
10	16QAM	25	0	-	21.19	-
10	16QAM	25	12	-	21.10	-
10	16QAM	25	25	-	21.07	-
10	16QAM	50	0	-	21.08	-
10	64QAM	1	0	-	20.85	-
10	64QAM	1	25	-	21.24	-
10	64QAM	1	49	-	21.32	-
10	64QAM	25	0	-	20.07	-
10	64QAM	25	12	-	20.12	-
10	64QAM	25	25	-	19.93	-
10	64QAM	50	0	-	20.02	-
	Chan	nel		27685	27710	27735
	Frequency	/ (MHz)		2307.5	2310	2312.5
5	QPSK	1	0	22.88	22.92	22.88
5	QPSK	1	12	23.04	22.99	23.10
5	QPSK	1	24	22.83	22.79	22.86
5	QPSK	12	0	21.83	21.96	21.97
5	QPSK	12	7	21.94	21.97	21.88
5	QPSK	12	13	21.92	21.92	21.97
5	QPSK	25	0	21.95	21.94	21.91
5	16QAM	1	0	22.30	22.41	22.12
5	16QAM	1	12	22.18	22.02	22.02
5	16QAM	1	24	22.23	22.29	22.36
5	16QAM	12	0	20.72	20.87	20.88
5	16QAM	12	7	20.93	20.90	20.97
5	16QAM	12	13	20.88	20.93	20.94
5	16QAM	25	0	20.77	20.83	20.99

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A1 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



SPORTON LAB. FCC RF Test Report

5	64QAM	1	0	21.01	20.91	20.97
5	64QAM	1	12	21.39	21.43	21.19
5	64QAM	1	24	21.12	21.13	21.15
5	64QAM	12	0	19.84	19.90	19.82
5	64QAM	12	7	20.07	19.85	20.09
5	64QAM	12	13	19.87	19.82	19.92
5	64QAM	25	0	19.77	19.98	20.02

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A2 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



LTE Band 30 (GT - LC =0.50dB) QPSK (dBm/5MHz)						
Bandwidth	5M					
Channel	27685	27710	27735			
Channel	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.5			
Conducted Power (dBm)	23.04	22.99	23.10			
Conducted Power (Watts)	0.2014	0.1991	0.2042			
EIRP(dBm)	23.54	23.49	23.60			
EIRP(Watts)	0.2259	0.2234	0.2291			
Limit	250mW / 5MHz	= 24dBm / 5MHz	PASS			

LTE Band 30 (GT - LC = 0.50dB) QPSK (dBm/5MHz)					
Bandwidth	10M				
Channel		27710			
Chamie		(Mid)			
Frequency		2310			
(MHz)		2310			
Conducted Power (dBm)		23.12			
Conducted Power (Watts)		0.2051			
EIRP(dBm)		23.62			
EIRP(Watts)		0.2301			
Limit	250mW / 5MHz =	PASS			

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A3 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

LTE Band 30 (GT - LC =0.50dB) 16QAM (dBm/5MHz)						
Bandwidth	5M					
Channel	27685	27710	27735			
Channel	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.5			
Conducted Power (dBm)	22.30	22.41	22.12			
Conducted Power (Watts)	0.1698	0.1742	0.1629			
EIRP(dBm)	22.80	22.91	22.62			
EIRP(Watts)	0.1905	0.1954	0.1828			
Limit	250mW / 5MHz	PASS				

LTE Band 30 (GT - LC = 0.50dB) 16QAM (dBm/5MHz)					
Bandwidth	10M				
Ob a mark		27710			
Channel		(Mid)			
Frequency		2310			
(MHz)		2310			
Conducted Power (dBm)		22.27			
Conducted Power (Watts)		0.1687			
EIRP(dBm)		22.77			
EIRP(Watts)		0.1892			
Limit	250mW / 5MHz =	PASS			

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A4 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

LTE Band 30 (GT - LC =0.50dB) 64QAM (dBm/5MHz)						
Bandwidth	5M					
Channel	27685	27710	27735			
Channel	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.3			
Conducted Power (dBm)	21.39	21.43	21.19			
Conducted Power (Watts)	0.1377	0.1390	0.1315			
EIRP(dBm)	21.89	21.93	21.69			
EIRP(Watts)	0.1545	0.1560	0.1476			
Limit	250mW / 5MHz	PASS				

LTE Band 30 (GT - LC = 0.50dB) 64QAM (dBm/5MHz)					
Bandwidth	10M				
Observati		27710			
Channel		(Mid)			
Frequency		2310			
(MHz)		2310			
Conducted Power (dBm)		21.32			
Conducted Power (Watts)		0.1355			
EIRP(dBm)		21.82			
EIRP(Watts)		0.1521			
Limit	250mW / 5MHz :	PASS			

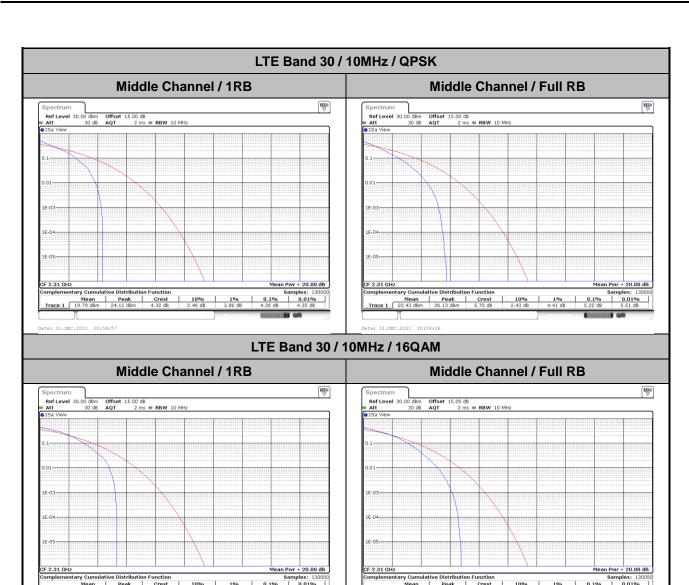
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A5 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

LTE Band 30

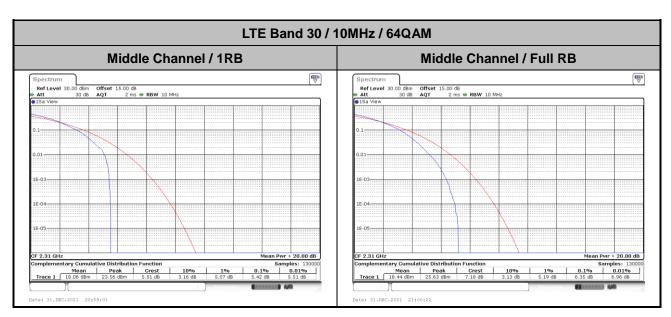
Peak-to-Average Ratio

Mode						
Mod.	QP	SK	160	Limit: 13dB		
RB Size	1RB	Full RB	1RB	Full RB	Result	
Lowest CH	-	-	-	-		
Middle CH	4.26	5.22	5.22	6.12	PASS	
Highest CH	-	-	-	-		
Mode						
Mod.	64C	AM		Limit: 13dB		
RB Size	1RB	Full RB			Result	
Lowest CH	-	-	-	-		
Middle CH	5.42	6.35	-	-	PASS	
Highest CH	-	-	-	-]	

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A6 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A7 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A8 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

26dB Bandwidth

Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.84	4.81	-	-	-	-	-	-
Middle CH	-	-	-	-	4.79	4.87	9.89	9.67	-	-	-	-
Highest CH	-	-	-	-	4.85	4.90	-	-	-	-	-	-
Mode		LTE Band 30 : 26dB BW(MHz)										
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.81	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.83	-	9.69	-	-	-	-	-
Highest CH	-	-	-	-	4.80	-	-	-	-	-	-	-

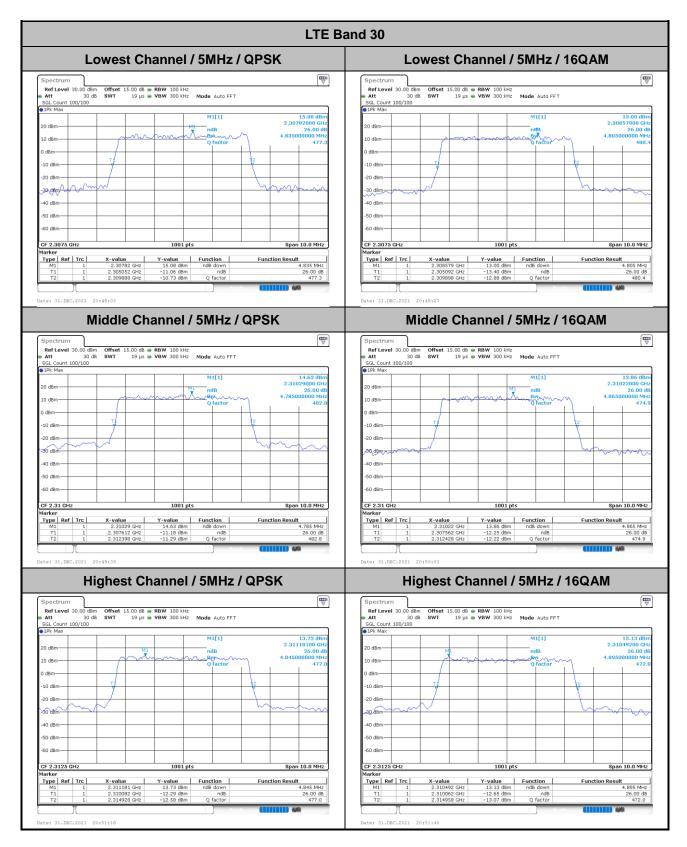
Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA

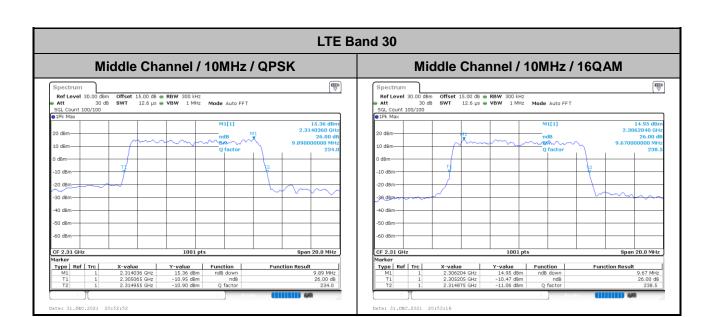
Page Number : A9 of A27 Report Issued Date: Feb. 10, 2022 Report Version

Report No.: FG1N0415C

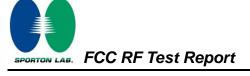
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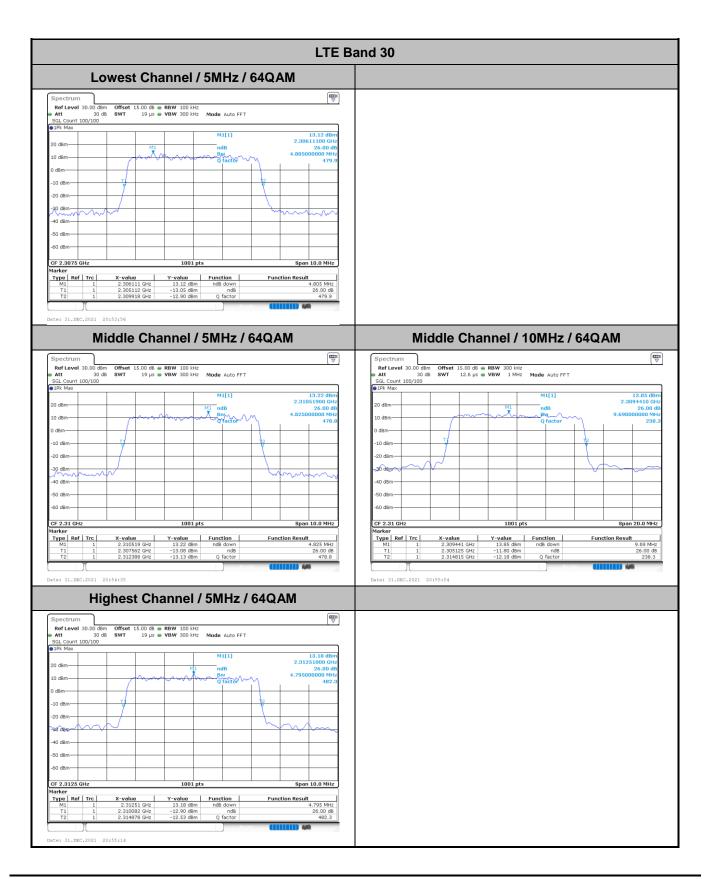


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A10 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A11 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01





Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A12 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Occupied Bandwidth

Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.47	9.03	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

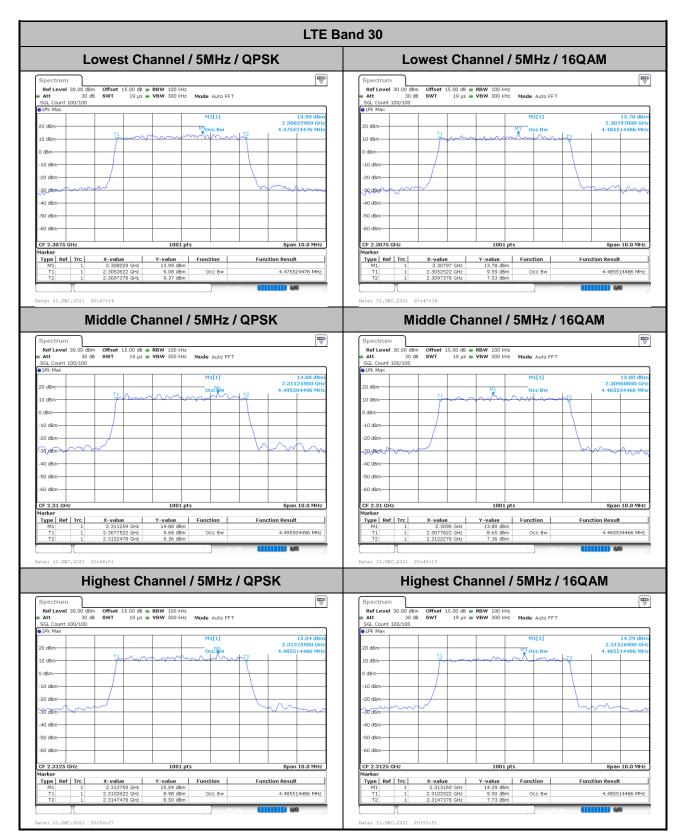
Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA

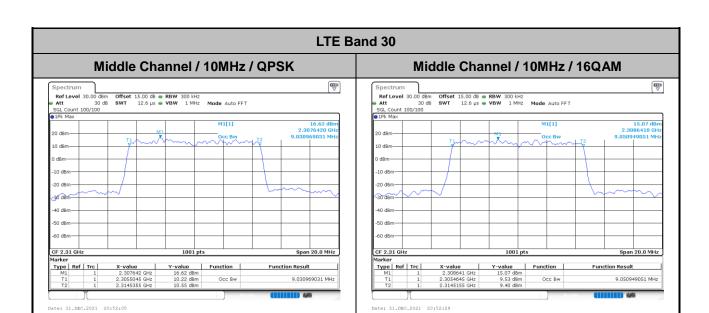
Page Number : A13 of A27 Report Issued Date: Feb. 10, 2022

Report No.: FG1N0415C

Report Version : Rev. 01

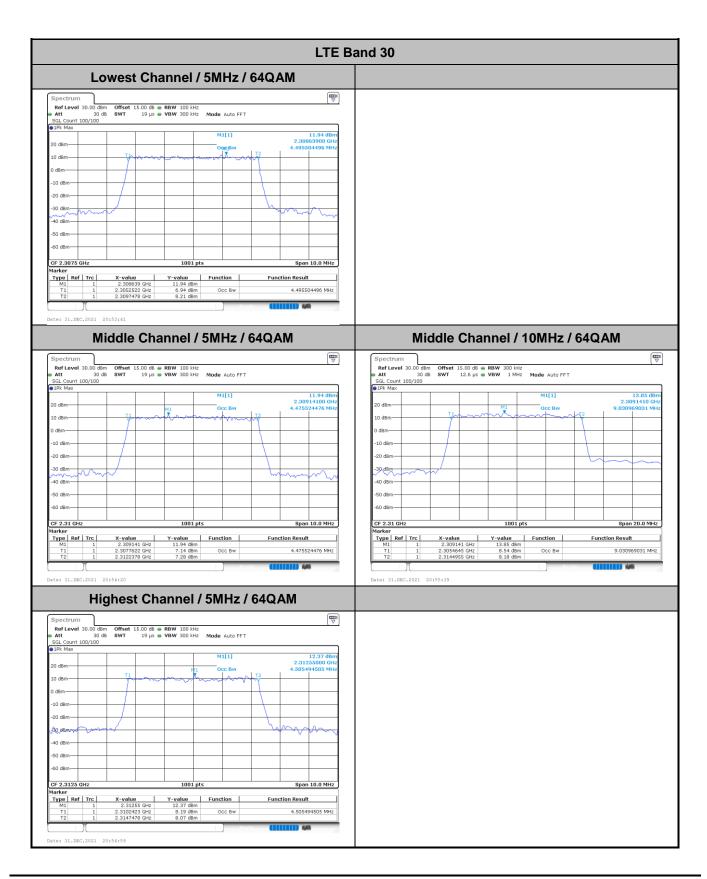


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A14 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



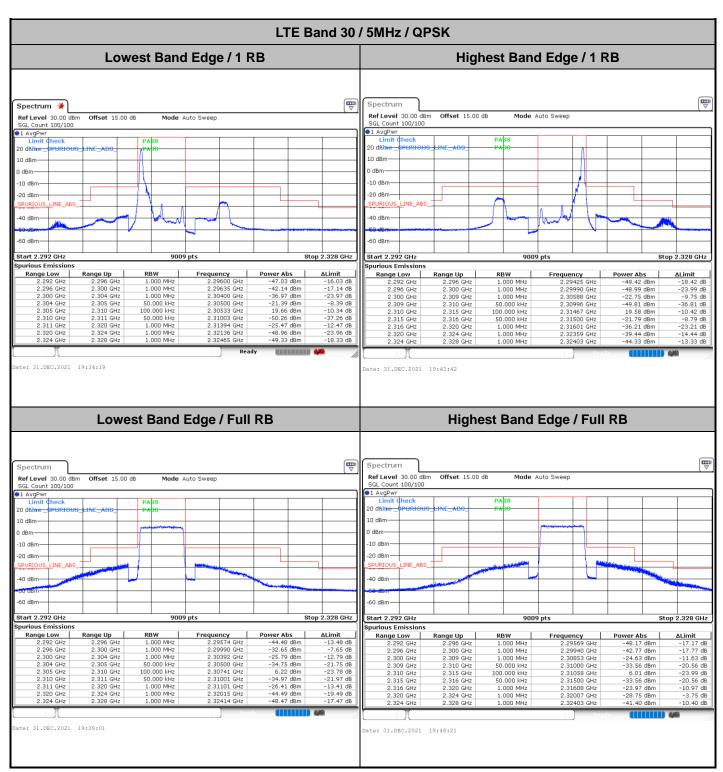
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A15 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01





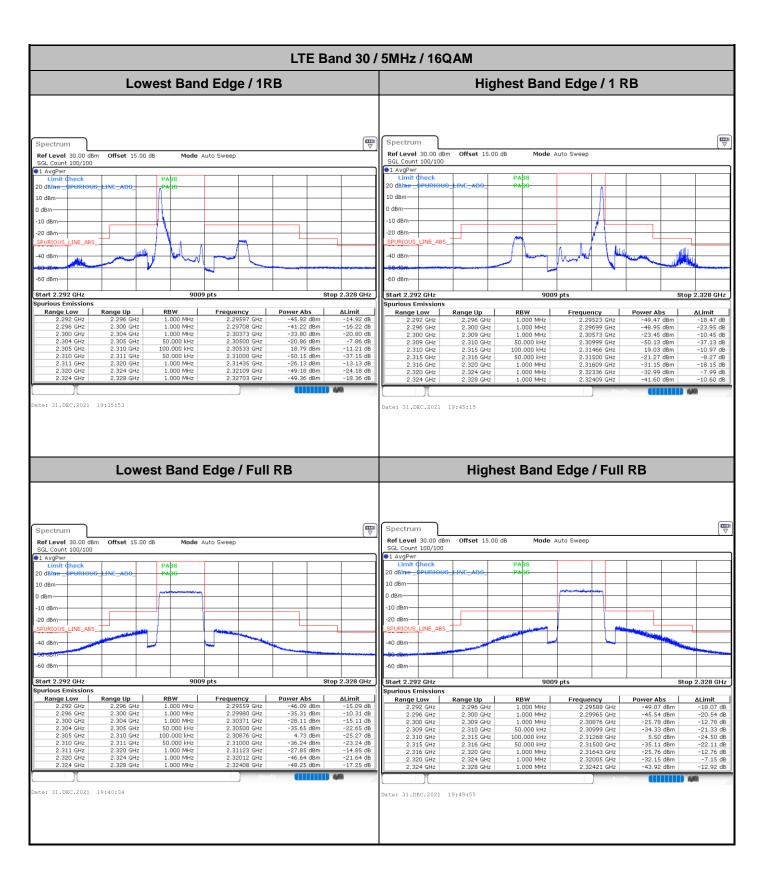
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A16 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Conducted Band Edge

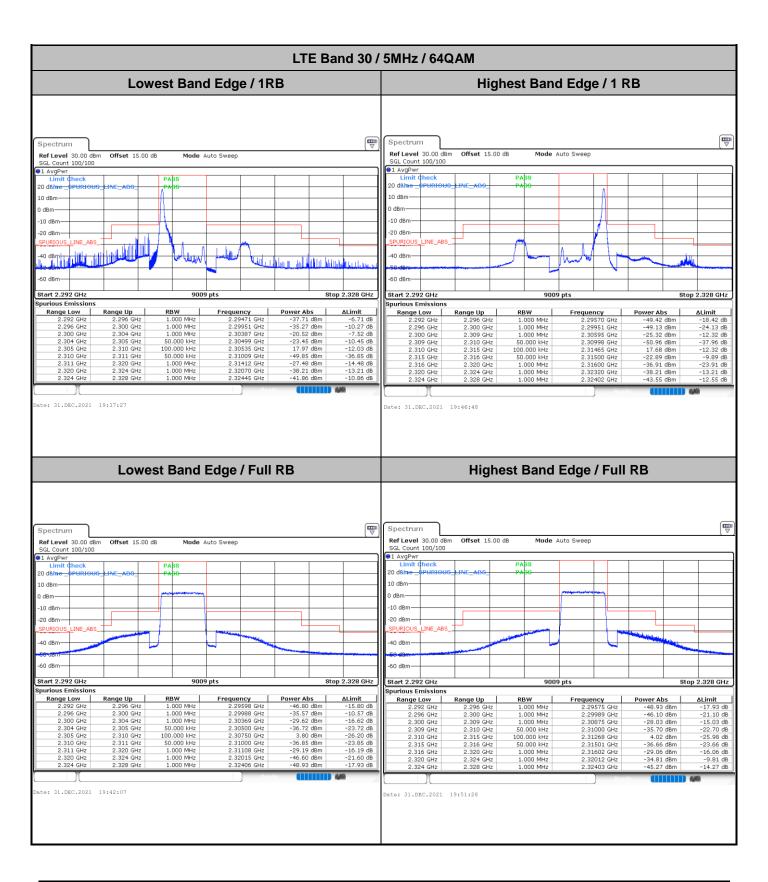


Sporton International Inc. (ShenZhen)

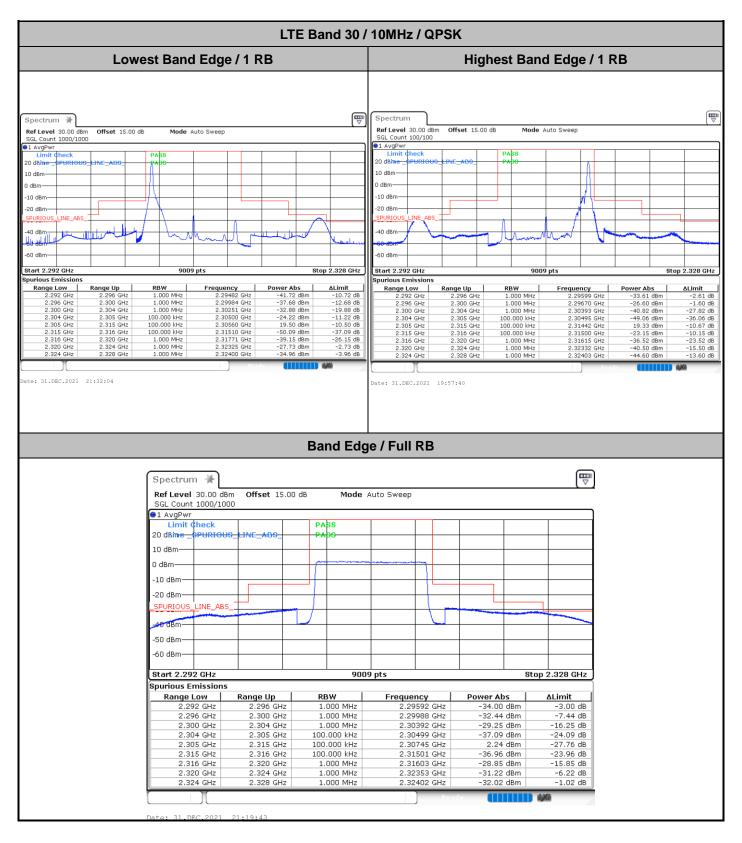
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A17 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



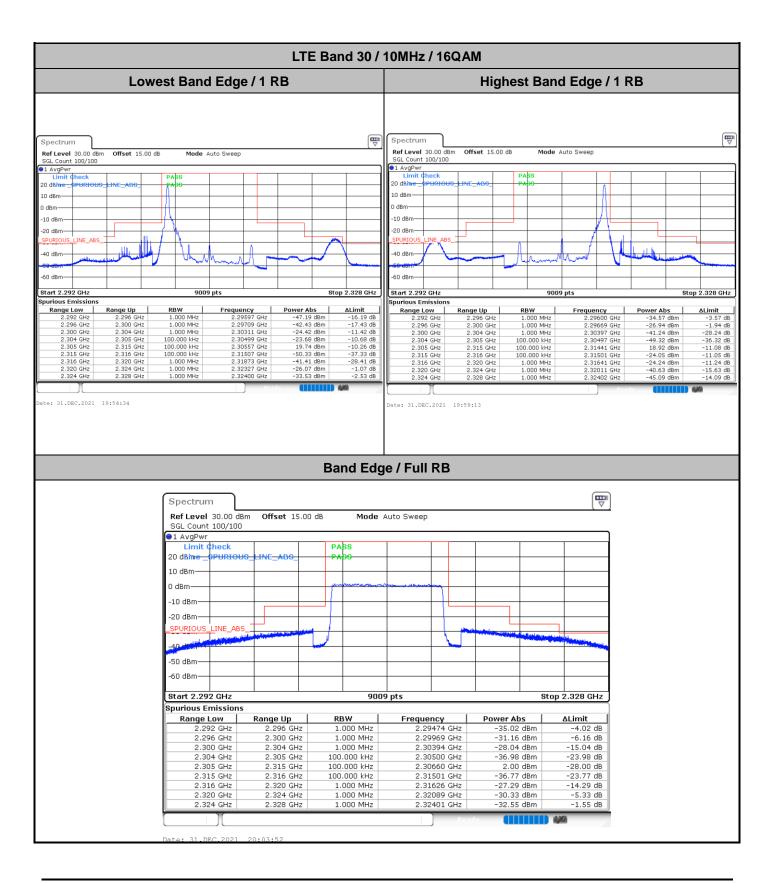
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A18 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



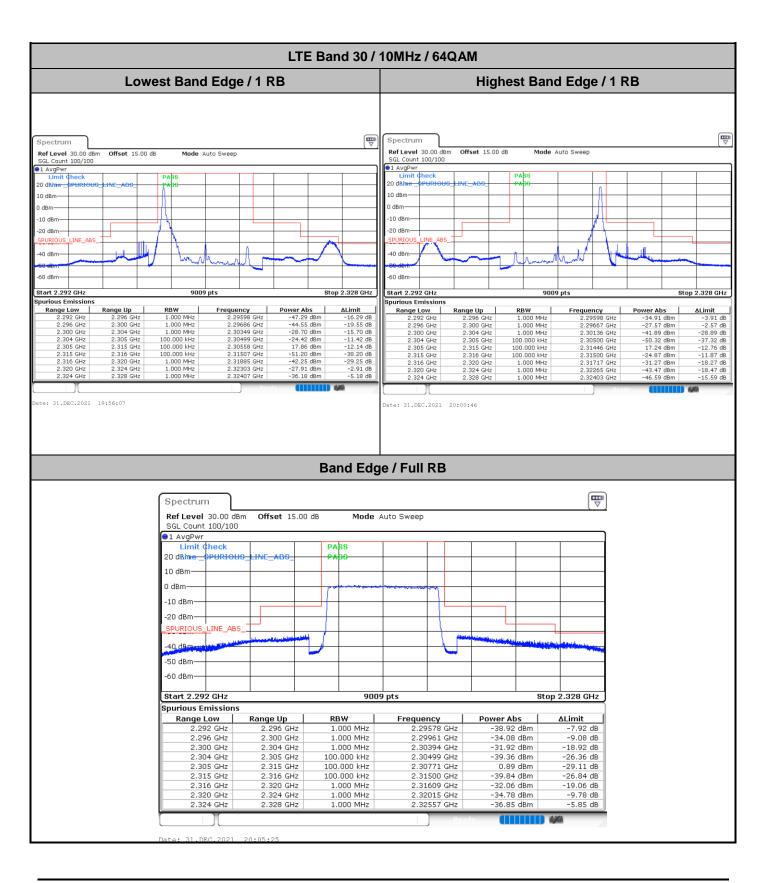
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A19 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A20 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

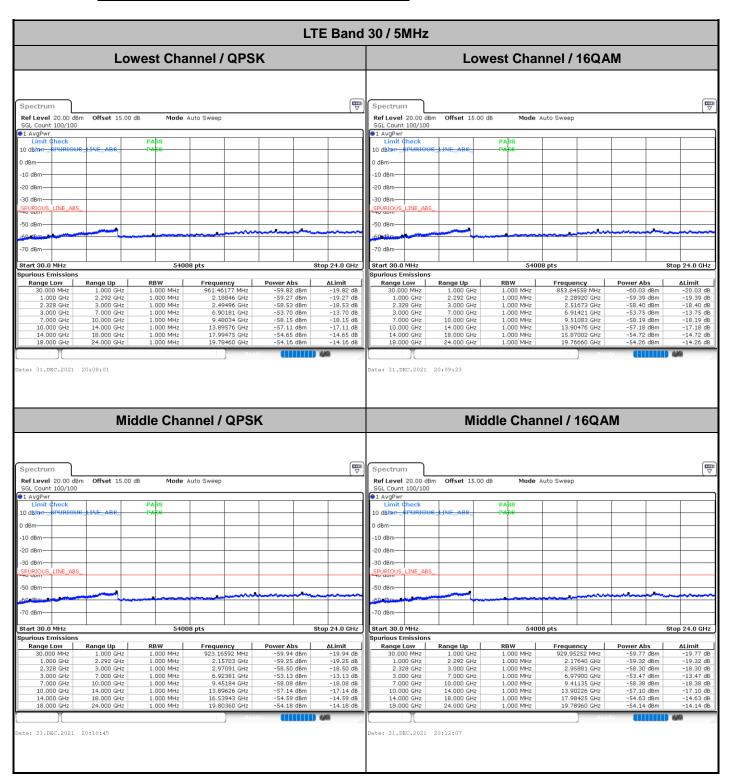


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A21 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



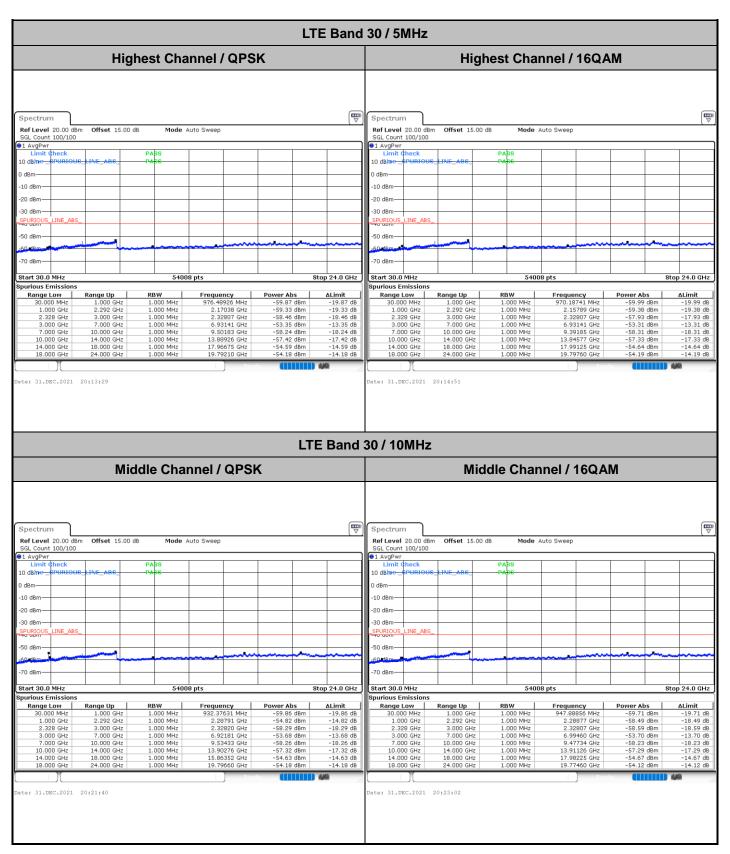
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A22 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Conducted Spurious Emission

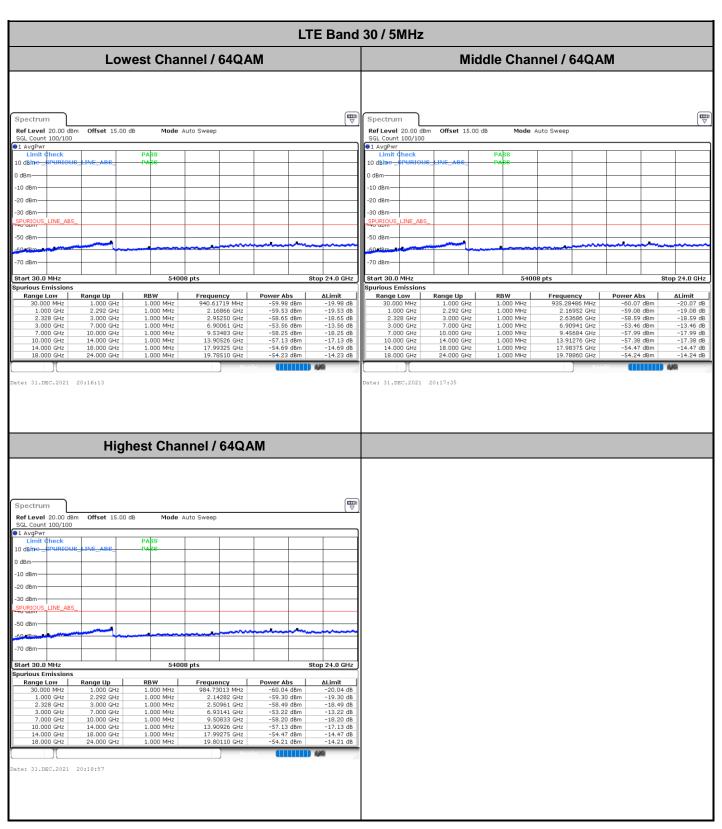


Sporton International Inc. (ShenZhen)

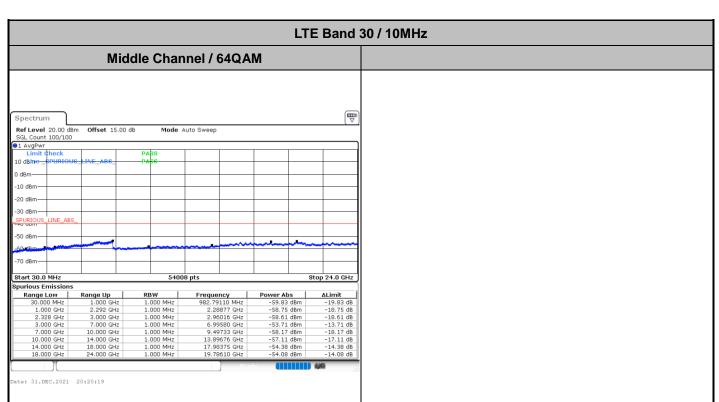
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A23 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A24 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A25 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A26 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Frequency Stability

Test (Conditions	LTE Band 30 (QPSK) / Middle Channel		
Temperature (°C)		BW 10MHz	Note 2.	
	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0004		
40	Normal Voltage	0.0010		
30	Normal Voltage	0.0001		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0001		
0	Normal Voltage	0.0005		
-10	Normal Voltage	0.0017	PASS	
-20	Normal Voltage	0.0014		
-30	Normal Voltage	0.0003		
20	Maximum Voltage	0.0005		
20	Normal Voltage	0.0000		
20	Battery End Point	0.0086		

Note:

- 1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : A27 of A27
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0											
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	4611.00	-60.50	-40	-20.50	-55.65	-66.75	6.45	12.70	Н		
	6916.50	-58.26	-40	-18.26	-56.63	-61.66	8.40	11.80	Н		
	9222.00	-53.14	-40	-13.14	-57.10	-55.49	9.65	12.00	Н		
	4611.00	-61.01	-40	-21.01	-56.54	-67.26	6.45	12.70	V		
	6916.50	-57.38	-40	-17.38	-56.23	-60.78	8.40	11.80	V		
	9222.00	-51.95	-40	-11.95	-55.09	-54.30	9.65	12.00	V		

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

Sporton International Inc. (ShenZhen)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: XD6U626AA Page Number : B1 of B1
Report Issued Date : Feb. 10, 2022
Report Version : Rev. 01