FCC RF Test Report

APPLICANT : Inseego Corp. EQUIPMENT : wireless device

BRAND NAME : Inseego MODEL NAME : FX20003

FCC ID : PKRISGFX20003

STANDARD : 47 CFR Part 2, 27(D)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Aug. 28, 2020 and completely tested on Oct. 04, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This product installed a RF module (Brand Name: Inseego, Model Name: MD2000, FCC ID: PKRISGMD2000) during the test, only EIRP and RSE test items are tested in this report, all the other test results are quoted on module RF report.

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

Reviewed by: Jason Jia / Supervisor

James Huang

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300

People's Republic of China

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 1 of 15
Report Issued Date : Nov. 26, 2020

Cert #5145.02

Report No.: FG082812F

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

TABLE OF CONTENTS

RE	VISIO	N HISTORY	3
SU	MMAF	RY OF TEST RESULT	4
1	GEN	ERAL DESCRIPTION	5
	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	5
	1.5	Modification of EUT	6
	1.6	Maximum EIRP Power, Frequency Tolerance and Emission Designator	6
	1.7	Testing Site	6
	1.8	Test Software	7
	1.9	Applied Standards	7
2	TES1	F CONFIGURATION OF EQUIPMENT UNDER TEST	8
	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	Frequency List of Low/Middle/High Channels	9
3	CON	DUCTED TEST ITEMS	10
	3.1	Conducted Output Power Measurement	10
	3.2	EIRP	11
4	RAD	IATED TEST ITEMS	12
	4.1	Measuring Instruments	12
	4.2	Test Setup	12
	4.3	Test Result of Radiated Test	12
	4.4	Radiated Spurious Emission Measurement	13
5	LIST	OF MEASURING EQUIPMENT	14
6	UNC	ERTAINTY OF EVALUATION	15
ΑP	PEND	IX A. TEST RESULTS OF CONDUCTED TEST	
ΑP	PEND	IX B. TEST RESULTS OF RADIATED TEST	
ΑP	PEND	IX C. TEST SETUP PHOTOGRAPHS	

Report No.: FG082812F

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

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG082812F	Rev. 01	Initial issue of report	Nov. 26, 2020

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 3 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only	PASS	1
-	-	Peak-to-Average Ratio	<13dB	N/A	1
3.2	§27.50 (a)(2)	EIRP	EIRP < 20W/5MHz	PASS	-
-	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
-	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	1
-	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	1
-	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	1
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 17.25 dB at 9220.000 MHz

Note:

- All conducted test items were leveraged from module RF report which can refer to Report No. "FG090125D"
- 2. The maximum power of host is lower than and very close to the module, therefore, we chose higher power of the module to calculate the EIRP and show in the report.

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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 4 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Page 01

Report No.: FG082812F

Report Version : Rev. 01

1 General Description

1.1 Applicant

Inseego Corp.

9710 Scranton Road, Suite 200 San Diego, CA 92121

1.2 Manufacturer

MeiG Smart Technology Co., Ltd

Floor 2, Office Building No.5, Lingxia Road, Fenghuang Community, Fuyong Street, Bao 'an District, Shenzhen

Report No.: FG082812F

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	wireless device
Brand Name	Inseego
Model Name	FX20003
FCC ID	PKRISGFX20003
	WCDMA/LTE/5G NR/GNSS
	WLAN 2.4GHz 802.11b/g/n HT20/HT40
FUT comparts Dadies application	WLAN 2.4GHz 802.11ax HE20/HE40
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40
	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80
	WLAN 5GHz 802.11ax HE20/HE40/HE80
IMEI Code	Radiation: 990016670003415
HW Version	Rev1
SW Version	1
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

	Product Feature
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 23.93 dBm
Antenna Gain	LTE Band 30 : 2.8 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

 Sporton International (Kunshan) Inc.
 Page Number
 : 5 of 15

 TEL: +86-512-57900158
 Report Issued Date
 : Nov. 26, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID: PKRISGFX20003 Report Template No.: BU5-FGLTE27D Version 2.0

1.5 Modification of EUT

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

1.6 Maximum EIRP Power, Frequency Tolerance and Emission Designator

L	TE Band 30		QPSK		16QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)			
5	2307.5 ~ 2312.5	•	=	0.4710	-	•	0.4055			
10	2310.0	-	-	0.4710	-	-	0.4074			
L	TE Band 30		64QAM			OFCO AM				
	TE Band 30		04QAIVI			256QAM				
BW (MHz)	Frequency	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)			
	Frequency Range	Designator (99%OBW)	Frequency Tolerance		Designator	Frequency Tolerance				

1.7 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.							
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China							
Test Site Location	TEL: +86-512-5790019							
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
	03CH04-KS CN1257 314309							

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 6 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

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:

- 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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 7 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

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.

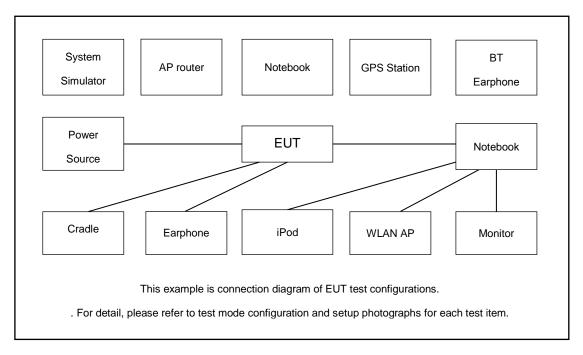
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted	Band		Ва	ndwi	dth (M	Hz)			Mod	dulation		RB#			Test Channel		
Test Cases		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
5100		-	-	V		-	-	٧	V	V	V	V			V	٧	٧
E.I.R.P	30	-	-		٧	-	-	V	V	V	V	V				٧	
Radiated		-	_	v		-	_	V				v				٧	
Spurious	30									1							
Emission					v			V				٧				٧	
	The mark "v " means that this configuration is chosen for testing																
	2. The mark "-" means that this bandwidth is not supported.																
Note	3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious																
	e	missio	on te	st un	der d	iffere	nt RB	size/of	fset and	modulation	ons in expl	orato	ory tes	t. Sub	sequ	ently	,
	O	nly the	e wo	rst ca	ase e	missi	ons a	re repo	rted.								

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 8 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 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	-									
5	Channel	27685	27710	27735									
o O	Frequency	2307.5	2310	2312.5									

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 9 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

3 Conducted Test Items

3.1 Conducted Output Power Measurement

3.1.1 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.

3.1.2 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.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 10 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

3.2 EIRP

3.2.1 Description of EIRP

For fixed customer premises equipment (CPE) stations transmitting in the 2305-2320 MHz band or in the 2345-2360 MHz band, the peak EIRP must not exceed 20 watts within any 5 megahertz of authorized bandwidth. For fixed WCS CPE using TDD technology, the duty cycle must not exceed 38 percent

3.2.2 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

Page Number : 11 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report Template No.: BU5-FGLTE27D Version 2.0

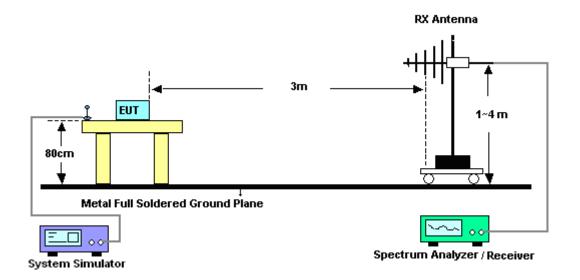
4 Radiated Test Items

4.1 Measuring Instruments

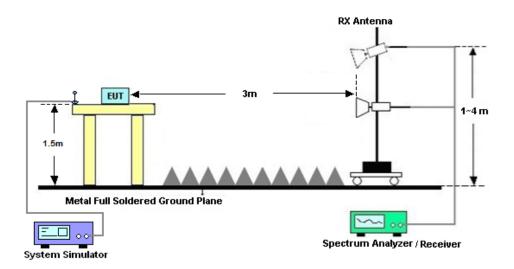
See list of measuring instruments of this test report.

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.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 12 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

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.: FG082812F

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

- The testing follows ANSI C63.26 Section 5.5
- 1. 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.
- 2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 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.

```
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.

 Sporton International (Kunshan) Inc.
 Page Number
 : 13 of 15

 TEL: +86-512-57900158
 Report Issued Date
 : Nov. 26, 2020

 FAX: +86-512-57900958
 Report Version
 : Rev. 01

FCC ID : PKRISGFX20003 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
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Oct. 04, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 03, 2020	Oct. 04, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Oct. 04, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Oct. 04, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 03, 2020	Oct. 04, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Oct. 04, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 03, 2020	Oct. 04, 2020	Jan. 02, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Oct. 04, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 04, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 04, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 04, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 14 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

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 2 A D
Confidence of 95% (U = 2Uc(y))	3.3dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = 2Uc(y))	2.0UB

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : 15 of 15
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Report No.: FG082812F

Appendix A. Test Results of Conducted Test



LTE Band 30 (GT - LC = 2.8 dB) QPSK (dBm/5MHz)					
Bandwidth		5M			
Channel	27685	27710	27735		
Channel	(Low)	(Mid)	(High)		
Frequency	2307.5	2310	2242.5		
(MHz)	2307.5	2310	2312.5		
Conducted Power (dBm)	23.84	23.93	23.87		
Conducted Power (Watts)	0.2421	0.2472	0.2438		
EIRP(dBm)	26.64	26.67			
EIRP(Watts)	0.4613	0.4645			
Limit	20W / 5MHz = 43dBm / 5MHz PASS				

LTE B	LTE Band 30 (GT - LC = 2.8 dB) QPSK (dBm/5MHz)				
Bandwidth		10M			
Channel		27710			
Chamie		(Mid)			
Frequency		2310			
(MHz)		2510			
Conducted Power (dBm)	-	23.93	-		
Conducted Power (Watts)		0.2472			
EIRP(dBm)		26.73			
EIRP(Watts)		0.4710			
Limit	20W / 5MHz =	PASS			

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : A1 of A4
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

LTE Band 30 (GT - LC = 2.8 dB) 16QAM (dBm/5MHz)						
Bandwidth		5M				
Channel	27685	27710	27735			
Chame	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.5	2310	2312.5			
Conducted Power (dBm)	23.22	23.28	23.18			
Conducted Power (Watts)	0.2099	0.2128	0.2080			
EIRP(dBm)	26.02	26.08	25.98			
EIRP(Watts)	0.3999	0.4055	0.3963			
Limit	20W / 5MHz = 43dBm / 5MHz PASS					

LTE Ba	LTE Band 30 (GT - LC = 2.8 dB) 16QAM (dBm/5MHz)					
Bandwidth		10M				
Channel		27710				
Channel		(Mid)				
Frequency		2310				
(MHz)		2310				
Conducted Power (dBm)		23.30				
Conducted Power (Watts)		0.2138				
EIRP(dBm)		26.10				
EIRP(Watts)		0.4074				
Limit	20W / 5MHz =	PASS				

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : A2 of A4
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

LTE Band 30 (GT - LC = 2.8 dB) 64QAM (dBm/5MHz)						
Bandwidth		5M				
Channel	27685	27710	27735			
Chamie	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.5	2310	2312.5			
Conducted Power (dBm)	21.68	21.80	22.21			
Conducted Power (Watts)	0.1472	0.1514	0.1663			
EIRP(dBm)	24.48	24.60	25.01			
EIRP(Watts)	0.2805	0.3170				
Limit	20W / 5MHz = 43dBm / 5MHz PASS					

LTE Band 30 (GT - LC = 2.8 dB) 64QAM (dBm/5MHz)				
Bandwidth		10M		
Channel		27710		
Channel		(Mid)		
Frequency		2310		
(MHz)		2310		
Conducted Power (dBm)		22.05		
Conducted Power (Watts)		0.1603		
EIRP(dBm)		24.85		
EIRP(Watts)		0.3055		
Limit	20W / 5MHz =	PASS		

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : A3 of A4
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

LTE Band 30 (GT - LC = 2.8 dB) 256QAM (dBm/5MHz)						
Bandwidth		5M				
Channel	27685	27710	27735			
Chamilei	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.3			
Conducted Power (dBm)	18.61	18.64	19.05			
Conducted Power (Watts)	0.0726	0.0731	0.0804			
EIRP(dBm)	21.41	21.44	21.85			
EIRP(Watts)	0.1384	0.1531				
Limit	20W / 5MHz = 43dBm / 5MHz PASS					

LTE Band 30 (GT - LC = 2.8 dB) 256QAM (dBm/5MHz)				
Bandwidth		10M		
Channel		27710		
Channel		(Mid)		
Frequency		2310		
(MHz)		2310		
Conducted Power (dBm)		19.03		
Conducted Power (Watts)		0.0800		
EIRP(dBm)		21.83		
EIRP(Watts)		0.1524		
Limit	20W / 5MHz =	PASS		

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : A4 of A4
Report Issued Date : Nov. 26, 2020
Report Version : Rev. 01

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

	LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0							
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4616	-62.69	-40	-22.69	-74.15	2.84	14.30	Н
	6924	-60.76	-40	-20.76	-70.70	3.49	13.43	Н
Middle	9230	-58.38	-40	-18.38	-68.62	3.85	14.09	Н
ivildale	4616	-61.94	-40	-21.94	-73.40	2.84	14.30	V
	6924	-59.69	-40	-19.69	-69.63	3.49	13.43	V
	9230	-57.89	-40	-17.89	-68.13	3.85	14.09	V

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

	LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0							
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4612	-62.67	-40	-22.67	-74.13	2.84	14.30	Н
	6916	-61.07	-40	-21.07	-71.01	3.49	13.43	Н
Middle	9220	-57.25	-40	-17.25	-67.49	3.85	14.09	Н
Middle	4612	-61.88	-40	-21.88	-73.34	2.84	14.30	V
	6916	-59.47	-40	-19.47	-69.41	3.49	13.43	V
	9220	-57.46	-40	-17.46	-67.70	3.85	14.09	V

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

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: PKRISGFX20003 Page Number : B1 of B1
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