# **FCC RF Test Report**

APPLICANT : Positioning Universal EQUIPMENT : asset tracking device

BRAND NAME : FJ500M MODEL NAME : FJ500M

FCC ID : Contains FCC ID :2AHRH-FJ500M STANDARD : 47 CFR Part 2, 24(E), 27(L), 27(H) CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was installed a module during the test: M2M DATA MODULE (Model Name: IMA2A, FCC ID: 2AHRH-FJ500M) during test.

The product was received on Apr. 18, 2019 and completely tested on May 08, 2019. 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.

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

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.

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Report Issued Date : May 30, 2019
Report Version : Rev. 01

Report No.: FG941809

Report Template No.: BU5-FGLTE Version 2.0

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG941809	Rev. 01	Initial issue of report	May 30, 2019

Sporton International (Kunshan) Inc.

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# **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12)	ERP < 3 Watt	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	
-	- §24.232(d) Peak-to-Average Ratio		<13 dB	PASS	1
-	§2.1049 Occupied Bandwidth		Reporting Only	PASS	1
-	§2.1051 §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 12)	< 43+10log10(P[Watts])	PASS	1
-	\$2.1051 \$24.238(a) \$27.53(g) \$27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 12)	< 43+10log10(P[Watts])	PASS	1
-	\$2.1055 Frequency Stability - \$24.235 Frequency & Voltage		Within Authorized Band	PASS	1
4.4	§2.1053 §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 12)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 21.88 dB at 3474.000 MHz

Remark 1: The conducted test items were leverage from module RF report which can refer to Report No. "FG851701".

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# 1 General Description

## 1.1 Applicant

### **Positioning Universal**

4660 La Jolla Village Dr Suite #1100, San Diego, CA92122

## 1.2 Product Feature of Equipment Under Test

Product Feature						
Equipment	asset tracking device					
Brand Name	FJ500M					
Model Name	FJ500M					
FCC ID	Contains FCC ID :2AHRH-FJ500M					
EUT supports Radios application	LTE Category M1 and GNSS					
SN Code	JKP3A191000028					
HW Version	v1.0					
SW Version	6300					
EUT Stage	Production Unit					

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## 1.3 Product Specification of Equipment Under Test

Standards-related Product Specification						
Tx Frequency	LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz					
Rx Frequency	LTE Band 2: 1930.7 MHz ~ 1989.3 MHz LTE Band 4: 2110.7 MHz ~ 2154.3 MHz LTE Band 12: 729.7 MHz ~ 745.3 MHz					
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 12: 1.4MHz/3MHz/5MHz/10MHz					
Maximum Output Power to Antenna	LTE Band 2: 23.84 dBm LTE Band 4: 23.68 dBm LTE Band 12: 23.77 dBm					
Antenna Gain	LTE Band 2: 1.34 dBi LTE Band 4: 0.47 dBi LTE Band 12: 0.63 dBi					
Type of Modulation	QPSK / 16QAM					

## 1.4 Modification of EUT

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

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## 1.5 Maximum ERP/EIRP Power

L	TE Band 2		QPSK			16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	-	-	0.3289	-	-	0.2547
3	1851.5 ~ 1908.5	-	-	0.3282	-	-	0.2410
5	1852.5 ~ 1907.5	-	-	0.3076	-	-	0.3296
10	1855.0 ~ 1905.0	-	-	0.3083	-	-	0.3289
15	1857.5 ~ 1902.5	-	-	0.3192	-	-	0.3273
20	1860.0 ~ 1900.0	-	-	0.3221	-	-	0.3266
L	TE Band 4	QPSK				16QAM	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	-	-	0.2600	-	-	0.1995
3	1711.5 ~ 1753.5	•	•	0.2404	-	-	0.1903
5	1712.5 ~ 1752.5		-	0.2323	-	-	0.2466
10	1715.0 ~ 1750.0	-	-	0.2307	-	-	0.2500
15	1717.5 ~ 1747.5	•	•	0.2438	-	-	0.2570
20	1720.0 ~ 1745.0		-	0.2382	-	-	0.2576
Ľ	TE Band 12		QPSK		16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	-	-	0.1596	-	-	0.1276
3	700.5 ~ 714.5	-	-	0.1535	-	-	0.1614
5	701.5 ~ 713.5	-	-	0.1629	-	-	0.1648
10	704.0 ~ 711.0	-	-	0.1679	-	-	0.1667

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### 1.6 Testing Location

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						
Test Site Location	Jiangsu Province 215300 People's Republic of China						
Test Site Location	TEL: +86-0512-57900158						
	FAX: +86-0512-57900958						
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site NO.	03CH06-KS	CN1257	314309				

## 1.7 Applicable Standards

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

- 47 CFR Part 2, 24(E), 27(L), 27(H)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

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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 v03r01 with maximum output power.

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

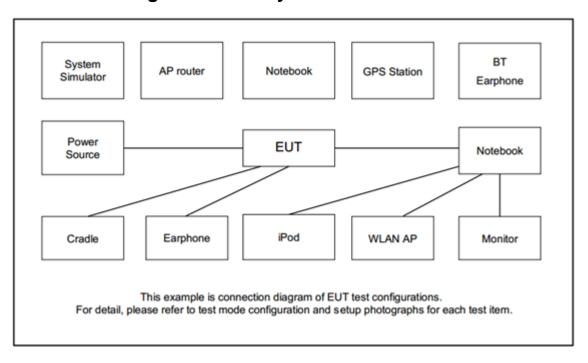
T	D1		В	andwic	dth (MH	lz)		Modu	lation		RB#		Tes	t Char	inel
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	М	Н
Max.	2	v	v	v	v	٧	v	v	v	v	v	v	v	v	v
Output	4	٧	v	v	v	v	v	v	v	v	v	v	v	v	v
Power	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	2	v	v	v	v	v	v	v	v	v			v	v	٧
E.R.P / E.I.R.P	4	v	v	v	٧	٧	٧	v	v	v			v	٧	v
	12	v	v	v	v	•	•	v	V	v			٧	v	v
Radiated	2		Worst Case								v	v	٧		
Spurious	4						W	Vorst Case					v	v	v
Emission	12	Worst Case							v	v	V				
Note	2. The diff	2. The mark "-" means that this bandwidth is not supported.													
								or each LTE be her conducted				•		nd	

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## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

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# 2.4 Frequency List of Low/Middle/High Channels

	LTE Band 2 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest						
20	Channel	18700	18900	19100						
20	Frequency	1860	1880	1900						
15	Channel	18675	18900	19125						
15	Frequency	1857.5	1880	1902.5						
10	Channel	18650	18900	19150						
10	Frequency	1855	1880	1905						
5	Channel	18625	18900	19175						
5	Frequency	1852.5	1880	1907.5						
3	Channel	18615	18900	19185						
3	Frequency	1851.5	1880	1908.5						
1.4	Channel	18607	18900	19193						
1.4	Frequency	1850.7	1880	1909.3						

	LTE Band 4 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest						
20	Channel	20050	20175	20300						
20	Frequency	1720	1732.5	1745						
15	Channel	20025	20175	20325						
15	Frequency	1717.5	1732.5	1747.5						
10	Channel	20000	20175	20350						
10	Frequency	1715	1732.5	1750						
5	Channel	19975	20175	20375						
5	Frequency	1712.5	1732.5	1752.5						
3	Channel	19965	20175	20385						
S	Frequency	1711.5	1732.5	1753.5						
1.4	Channel	19957	20175	20393						
1.4	Frequency	1710.7	1732.5	1754.3						

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LTE Band 12 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
40	Channel	23060	23095	23130					
10	Frequency	704	707.5	711					
5	Channel	23035	23095	23155					
5	Frequency	701.5	707.5	713.5					
3	Channel	23025	23095	23165					
3	Frequency	700.5	707.5	714.5					
1.4	Channel	23017	23095	23173					
1.4	Frequency	699.7	707.5	715.3					

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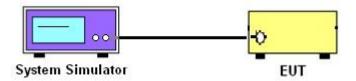
### 3 Conducted Test Items

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

## 3.2 Test Setup

### 3.2.1 Conducted Output Power



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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### 3.4 Conducted Output Power and ERP/EIRP

# 3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12.

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

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

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP - 2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

 $L_{\text{C}}$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

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

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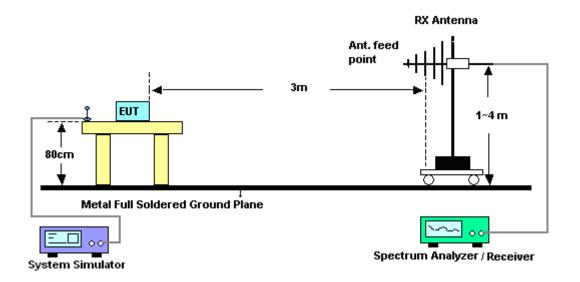
### 4 Radiated Test Items

## 4.1 Measuring Instruments

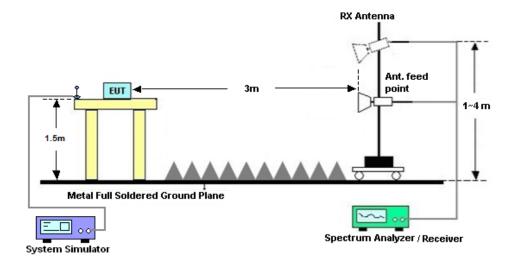
See list of measuring instruments of this test report.

### 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 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

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

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.
- Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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

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# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz-44GHz	Jun. 25, 2018	May 03, 2019~ May 08, 2019	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	May 03, 2019~ May 08, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	May 03, 2019~ May 08, 2019	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	May 03, 2019~ May 08, 2019	Jan. 04, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	May 03, 2019~ May 08, 2019	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	May 03, 2019~ May 08, 2019	Apr. 14, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Jan. 14, 2019	May 03, 2019~ May 08, 2019	Jan. 13, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 03, 2019~ May 08, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 03, 2019~ May 08, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	May 03, 2019~ May 08, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

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## 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	2540
Confidence of 95% (U = 2Uc(y))	2.5 dB

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

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

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

Measuring U	ncertainty for a Level of	2.0 dB
Confidenc	e of 95% (U = 2Uc(y))	2.0 UB

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

# Conducted Output Power(Average power)

			LTE Ba	nd 2	Ma	aximur	n Average Power	[dBm]	
BW [MHz]	Mod	RB Size	RB Offset		Inde	x	Lowest	Middle	Highest
DVV [IVITZ]	Wiod	KD SIZE	KB Oliset	L	М	Н	Lowest	Middle	nignest
20		1	0	0	0	15	23.60	23.34	23.74
20	QPSK	1	5	0	0	15	23.74	23.37	23.65
20		6	0	0	0	15	23.72	23.33	23.64
20		1	0	0	0	15	23.78	23.68	23.75
20	16-QAM	1	5	0	0	15	23.76	23.64	23.76
20		6	0	0	0	15	23.74	23.70	23.80
15		1	0	0	0	11	23.66	23.67	23.65
15	QPSK	1	5	0	0	11	23.65	23.70	23.60
15		6	0	0	0	11	23.66	23.68	23.55
15		1	0	0	0	11	23.79	23.80	23.71
15	16-QAM	1	5	0	0	11	23.81	23.80	23.79
15		6	0	0	0	11	23.70	23.75	23.68
10		1	0	0	0	7	23.54	23.53	23.53
10	QPSK	1	5	0	0	7	23.45	23.55	23.49
10		6	0	0	0	7	22.80	22.89	22.80
10		1	0	0	0	7	23.80	23.73	23.83
10	16-QAM	1	5	0	0	7	23.81	23.75	23.79
10		6	0	0	0	7	22.23	22.17	22.16
5		1	0	0	0	3	23.50	23.53	23.53
5	QPSK	1	5	0	0	3	23.49	23.54	23.45
5		6	0	0	0	3	23.00	22.91	22.87
5		1	0	0	0	3	23.46	23.84	23.75
5	16-QAM	1	5	0	0	3	23.65	23.78	23.71
5		6	0	0	0	3	22.30	22.18	22.17

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			LTE Ba	nd 2	Ma	ximur	m Average Power	[dBm]		
DW/ FMLI=1	Mod	RB Size	RB Offset		Inde	x	Lowest	Middle	Highest	
BW [MHz]	IVIOG	KB 3ize	KB Oliset	L	М	н	Lowest	Middle	Highest	
3		1	0	0	0	1	23.82	23.40	23.57	
3	QPSK	1	5	0	0	1	23.79	23.35	23.80	
3		6	0	0	0	1	21.59	21.42	21.13	
3		1	0	0	0	1	22.47	22.36	22.20	
3	16-QAM	1	5	0	0	1	22.48	22.32	22.25	
3		6	0	0	0	1	21.51	21.58	21.05	
1.4		1	0	0	0	0	23.83	23.55	23.83	
1.4	QPSK	1	5	0	0	0	23.82	23.54	23.82	
1.4		6	0	0	0	0	22.80	21.57	22.80	
1.4		1	0	0	0	0	22.63	22.72	22.63	
1.4	16-QAM	1	5	0	0	0	22.44	22.58	22.44	
1.4		6	0	0	0	0	21.85	21.66	21.85	

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			LTE Ba	nd 4	Ma	ximur	n Average Power	[dBm]	
					Inde	x			
BW [MHz]	Mod	RB Size	RB Offset	L	М	н	Lowest	Middle	Highest
20		1	0	0	0	15	23.30	23.26	23.19
20	QPSK	1	5	0	0	15	23.28	23.29	23.24
20		6	0	0	0	15	23.21	23.28	23.21
20		1	0	0	0	15	23.64	23.57	23.54
20	16-QAM	1	5	0	0	15	23.60	23.58	23.57
20		6	0	0	0	15	23.34	23.35	23.31
15		1	0	0	0	11	23.37	23.30	23.31
15	QPSK	1	5	0	0	11	23.27	23.28	23.27
15		6	0	0	0	11	23.40	23.31	23.31
15		1	0	0	0	11	23.63	23.60	23.54
15	16-QAM	1	5	0	0	11	23.57	23.63	23.57
15		6	0	0	0	11	23.21	23.36	23.29
10		1	0	0	0	7	23.10	23.13	23.14
10	QPSK	1	5	0	0	7	23.16	23.12	23.13
10		6	0	0	0	7	22.64	22.50	22.66
10		1	0	0	0	7	23.51	23.44	23.50
10	16-QAM	1	5	0	0	7	23.46	23.44	23.49
10		6	0	0	0	7	21.92	21.90	22.00
5		1	0	0	0	3	23.10	23.13	23.10
5	QPSK	1	5	0	0	3	23.19	23.13	23.15
5		6	0	0	0	3	22.50	22.50	22.65
5		1	0	0	0	3	23.44	23.44	23.43
5	16-QAM	1	5	0	0	3	23.41	23.45	23.40
5		6	0	0	0	3	21.85	21.97	21.83

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			LTE Ba	nd 4	Ma	ximur	n Average Power	[dBm]		
DVA/ FMILL=1	Mod	RB Size	RB Offset		Inde	x	Lowest	M: dalla	III alia a d	
BW [MHz]	IVIOG	KB Size	RB Offset	L	М	н	Lowest	Middle	Highest	
3		1	0	0	0	1	23.22	23.11	23.34	
3	QPSK	1	5	0	0	1	23.25	23.10	23.28	
3		6	0	0	0	1	21.22	21.09	21.24	
3		1	0	0	0	1	22.33	22.11	22.01	
3	16-QAM	1	5	0	0	1	22.28	22.11	22.02	
3		6	0	0	0	1	21.25	21.22	21.33	
1.4		1	0	0	0	0	23.63	23.51	23.40	
1.4	QPSK	1	5	0	0	0	23.68	23.35	23.30	
1.4		6	0	0	0	0	21.65	21.33	21.45	
1.4		1	0	0	0	0	22.22	22.53	22.32	
1.4	16-QAM	1	5	0	0	0	22.34	22.41	22.20	
1.4		6	0	0	0	0	21.61	21.44	21.48	

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			LTE Bar	nd 12	2 M	aximu	m Average Power	[dBm]	
D\A/ [MI]_1	Mad	DD Cine	DD Offeet		Inde	x	Lawret	BAT - L-U -	Himboot
BW [MHz]	Mod	RB Size	RB Offset	L	М	Н	Lowest	Middle	Highest
10		1	0	0	0	7	23.39	23.40	23.40
10	QPSK	1	5	0	0	7	23.40	23.41	23.39
10		6	0	0	0	7	22.77	22.73	23.77
10		1	0	0	0	7	23.44	23.71	23.57
10	16-QAM	1	5	0	0	7	23.70	23.74	23.74
10		6	0	0	0	7	23.01	23.06	23.05
5		1	0	0	0	3	23.31	23.35	23.30
5	QPSK	1	5	0	0	3	23.64	23.37	23.30
5		6	0	0	0	3	22.65	22.75	22.43
5		1	0	0	0	3	23.66	23.65	23.60
5	16-QAM	1	5	0	0	3	23.54	23.69	23.54
5		6	0	0	0	3	22.09	22.10	23.09
3		1	0	0	0	1	23.15	23.38	23.30
3	QPSK	1	5	0	0	1	23.25	23.30	23.18
3		6	0	0	0	1	21.34	21.29	21.13
3		1	0	0	0	1	21.88	23.60	22.20
3	16-QAM	1	5	0	0	1	21.98	23.31	22.23
3		6	0	0	0	1	21.43	21.29	21.06
1.4		1	0	0	0	0	23.42	23.55	23.18
1.4	QPSK	1	5	0	0	0	23.27	23.50	23.23
1.4		6	0	0	0	0	21.20	21.61	21.32
1.4		1	0	0	0	0	22.04	22.58	22.19
1.4	16-QAM	1	5	0	0	0	22.15	22.49	22.25
1.4		6	0	0	0	0	21.27	21.60	21.21

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# **ERP/EIRP**

	LTE Band 2 (GT - LC = 1.34 dB) QPSK													
Bandwidth		1.4M			3M		5M							
Channal	18607	18900 19193		18615 18900		19185	18625	18900	19175					
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
Frequency	4050.7	4000	4000.2	4054.5	4000	4000 5	4050.5	4000	4007.5					
(MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5					
Conducted Power (dBm)	23.83	23.55	23.83	23.82	23.40	23.57	23.49	23.54	23.45					
Conducted Power (Watts)	0.2415	0.2265	0.2415	0.2410	0.2188	0.2275	0.2234	0.2259	0.2213					
EIRP(dBm)	25.17	24.89	25.17	25.16	24.74	24.91	24.83	24.88	24.79					
EIRP(Watts)	0.3289	0.3083	0.3289	0.3282	0.2979	0.3097	0.3041	0.3076	0.3013					

	LTE Band 2 (GT - LC = 1.34 dB) QPSK													
Bandwidth		10M			15M		20M							
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100					
Chamiei	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900					
(MHz)	1033	1000	1903	1037.3	1000	1902.5	1000	1000	1900					
Conducted Power (dBm)	23.45	23.55	23.49	23.65	23.70	23.60	23.60	23.34	23.74					
Conducted Power (Watts)	0.2213	0.2265	0.2234	0.2317	0.2344	0.2291	0.2291	0.2158	0.2366					
EIRP(dBm)	24.79	24.89	24.83	24.99	25.04	24.94	24.94	24.68	25.08					
EIRP(Watts)	0.3013	0.3083	0.3041	0.3155	0.3192	0.3119	0.3119	0.2938	0.3221					

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	LTE Band 2 (GT - LC = 1.34 dB) 16QAM													
Bandwidth		1.4M			3M		5M							
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175					
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)					
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5					
Conducted Power (dBm)	22.63	22.72	22.63	22.48	22.32	22.25	23.46	23.84	23.75					
Conducted Power (Watts)	0.1832	0.1871	0.1832	0.1770	0.1706	0.1679	0.2218	0.2421	0.2371					
EIRP(dBm)	23.97	24.06	23.97	23.82	23.66	23.59	24.80	25.18	25.09					
EIRP(Watts)	0.2495	0.2547	0.2495	0.2410	0.2323	0.2286	0.3020	0.3296	0.3228					

	LTE Band 2 (GT - LC = 1.34 dB) 16QAM											
Bandwidth		10M		15M			20M					
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900			
(MHz)	1000	1000	1905	1057.5	1000	1902.5	1000	1000	1900			
Conducted Power (dBm)	23.80	23.73	23.83	23.81	23.80	23.79	23.74	23.70	23.80			
Conducted Power (Watts)	0.2399	0.2360	0.2415	0.2404	0.2399	0.2393	0.2366	0.2344	0.2399			
EIRP(dBm)	25.14	25.07	25.17	25.15	25.14	25.13	25.08	25.04	25.14			
EIRP(Watts)	0.3266	0.3214	0.3289	0.3273	0.3266	0.3258	0.3221	0.3192	0.3266			

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	LTE Band 4 (GT - LC = 0.47 dB) QPSK											
Bandwidth		1.4M		3M			5M					
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375			
Chamilei	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	4740.7	4700 5	4754.0	4744 5	4700 5	4750.5	4740.5	4700 5	4750.5			
(MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5			
Conducted Power (dBm)	23.68	23.35	23.30	23.22	23.11	23.34	23.19	23.13	23.15			
Conducted Power (Watts)	0.2333	0.2163	0.2138	0.2099	0.2046	0.2158	0.2084	0.2056	0.2065			
EIRP(dBm)	24.15	23.82	23.77	23.69	23.58	23.81	23.66	23.60	23.62			
EIRP(Watts)	0.2600	0.2410	0.2382	0.2339	0.2280	0.2404	0.2323	0.2291	0.2301			

	LTE Band 4 (GT - LC = 0.47 dB) QPSK											
Bandwidth		10M		15M			20M					
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745			
(MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745			
Conducted Power (dBm)	23.16	23.12	23.13	23.40	23.31	23.31	23.30	23.26	23.19			
Conducted Power (Watts)	0.2070	0.2051	0.2056	0.2188	0.2143	0.2143	0.2138	0.2118	0.2084			
EIRP(dBm)	23.63	23.59	23.60	23.87	23.78	23.78	23.77	23.73	23.66			
EIRP(Watts)	0.2307	0.2286	0.2291	0.2438	0.2388	0.2388	0.2382	0.2360	0.2323			

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	LTE Band 4 (GT - LC = 0.47 dB) 16QAM											
Bandwidth		1.4M			3M		5M					
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	4740.7	4722 F	4754.0	4744 5	4722 F	47F2 F	4740 F	4722 F	4750 F			
(MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5			
Conducted Power (dBm)	22.22	22.53	22.32	22.33	22.11	22.01	23.41	23.45	23.40			
Conducted Power (Watts)	0.1667	0.1791	0.1706	0.1708	0.1626	0.1589	0.2193	0.2213	0.2188			
EIRP(dBm)	22.69	23.00	22.79	22.80	22.58	22.48	23.88	23.92	23.87			
EIRP(Watts)	0.1858	0.1995	0.1901	0.1903	0.1811	0.1770	0.2443	0.2466	0.2438			

	LTE Band 4 (GT - LC = 0.47 dB) 16QAM											
Bandwidth		10M			15M			20M				
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745			
(MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745			
Conducted Power (dBm)	23.51	23.44	23.50	23.63	23.60	23.54	23.64	23.57	23.54			
Conducted Power (Watts)	0.2244	0.2208	0.2239	0.2307	0.2291	0.2259	0.2312	0.2275	0.2259			
EIRP(dBm)	23.98	23.91	23.97	24.10	24.07	24.01	24.11	24.04	24.01			
EIRP(Watts)	0.2500	0.2460	0.2495	0.2570	0.2553	0.2518	0.2576	0.2535	0.2518			

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	LTE Band 12 (GT - LC = 0.63 dB) QPSK											
Bandwidth		1.4M			3M			5M				
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5			
(MHz)	099.7	707.5	715.5	700.5	707.5	714.5	701.5	707.5	713.5			
Conducted Power (dBm)	23.42	23.55	23.18	23.15	23.38	23.30	23.64	23.37	23.30			
Conducted Power (Watts)	0.2198	0.2265	0.2080	0.2065	0.2178	0.2138	0.2312	0.2173	0.2138			
ERP(dBm)	21.90	22.03	21.66	21.63	21.86	21.78	22.12	21.85	21.78			
ERP(Watts)	0.1549	0.1596	0.1466	0.1455	0.1535	0.1507	0.1629	0.1531	0.1507			

	LTE Band 12 (GT - LC =	0.63 dB) QPSK	
Bandwidth		10M	
Channel	23060	23095	23130
Chamie	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)	704	707.5	711
Conducted Power (dBm)	22.77	22.73	23.77
Conducted Power (Watts)	0.1892	0.1875	0.2382
ERP(dBm)	21.25	21.21	22.25
ERP(Watts)	0.1334	0.1321	0.1679

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	LTE Band 12 (GT - LC = 0.63 dB) 16QAM											
Bandwidth		1.4M		3M			5M					
	23017	23095	23173	23025	23095	23165	23035	23095	23155			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5			
Conducted Power (dBm)	22.04	22.58	22.19	21.88	23.60	22.20	23.54	23.69	23.54			
Conducted Power (Watts)	0.1600	0.1811	0.1656	0.1542	0.2291	0.1660	0.2259	0.2339	0.2259			
ERP(dBm)	20.52	21.06	20.67	20.36	22.08	20.68	22.02	22.17	22.02			
ERP(Watts)	0.1127	0.1276	0.1167	0.1086	0.1614	0.1169	0.1592	0.1648	0.1592			

L	TE Band 12 (GT - LC = 0	0.63 dB) 16QAM	
Bandwidth		10M	
Channel	23060	23095	23130
Channel	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)	704	707.3	711
Conducted Power (dBm)	23.70	23.74	23.74
Conducted Power (Watts)	0.2344	0.2366	0.2366
ERP(dBm)	22.18	22.22	22.22
ERP(Watts)	0.1652	0.1667	0.1667

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# **Appendix B. Test Results of Radiated Test**

# Radiated Spurious Emission

			LTE Band	d 2 / 20MHz /	QPSK			
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)
	3702	-41.08	-13	-28.08	-47.34	1.843	8.10	Н
	5553	-51.84	-13	-38.84	-60.15	2.19	10.50	Н
Lowest	7404	-43.40	-13	-30.40	-52.32	2.58	11.50	Н
Lowest	3705	-46.35	-13	-33.35	-52.61	1.84	8.10	V
	5553	-49.51	-13	-36.51	-57.82	2.19	10.50	V
	7404	-43.72	-13	-30.72	-52.64	2.58	11.50	V
	3744	-40.64	-13	-27.64	-46.90	1.843	8.10	Н
	5613	-51.56	-13	-38.56	-59.87	2.19	10.50	Н
Middle	7488	-44.06	-13	-31.06	-52.98	2.58	11.50	Н
Middle	3744	-46.45	-13	-33.45	-52.71	1.84	8.10	V
	5613	-50.06	-13	-37.06	-58.37	2.19	10.50	V
	7488	-43.64	-13	-30.64	-52.56	2.58	11.50	V
	3783	-42.13	-13	-29.13	-48.39	1.843	8.10	Н
	5673	-51.24	-13	-38.24	-59.55	2.19	10.50	Н
Liberte e et	7566	-42.69	-13	-29.69	-51.61	2.58	11.50	Н
Highest	3783	-46.29	-13	-33.29	-52.55	1.84	8.10	V
	5673	-51.75	-13	-38.75	-60.06	2.19	10.50	V
	7566	-45.15	-13	-32.15	-54.07	2.58	11.50	V

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

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			LTE Ban	d 4 / 20MHz / (	QPSK			
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)
	3423	-36.44	-13	-23.44	-43.13	1.75	8.44	Н
	5136	-48.87	-13	-35.87	-57.29	1.94	10.36	Н
Lowest	6840	-50.66	-13	-37.66	-59.90	2.47	11.71	Н
Lowest	3423	-45.18	-13	-32.18	-51.87	1.75	8.44	V
	5136	-49.23	-13	-36.23	-57.65	1.94	10.36	V
	6840	-50.07	-13	-37.07	-59.31	2.47	11.71	V
	3447	-35.19	-13	-22.19	-41.88	1.75	8.44	Н
	5172	-50.02	-13	-37.02	-58.44	1.94	10.36	Н
Middle	6894	-50.77	-13	-37.77	-60.01	2.47	11.71	Н
Middle	3447	-46.88	-13	-33.88	-53.57	1.75	8.44	V
	5172	-50.72	-13	-37.72	-59.14	1.94	10.36	V
	6894	-51.76	-13	-38.76	-61.00	2.47	11.71	V
	3474	-34.88	-13	-21.88	-41.57	1.75	8.44	Н
	5208	-49.46	-13	-36.46	-57.88	1.94	10.36	Н
l limb and	6948	-48.68	-13	-35.68	-57.92	2.47	11.71	Н
Highest	3474	-42.59	-13	-29.59	-49.28	1.75	8.44	V
	5208	-48.76	-13	-35.76	-57.18	1.94	10.36	V
	6948	-49.36	-13	-36.36	-58.60	2.47	11.71	V

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

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			LTE Band	112/10MHz/	QPSK			
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1400	-55.27	-13	-42.27	-58.51	1.11	6.50	Н
	2100	-58.60	-13	-45.60	-61.22	1.43	6.20	Н
Lowest	2798	-59.62	-13	-46.62	-64.06	1.71	8.30	Н
Lowest	1400	-64.31	-13	-51.31	-67.55	1.11	6.50	V
	2098	-60.34	-13	-47.34	-62.96	1.43	6.20	V
	2798	-59.48	-13	-46.48	-63.92	1.71	8.30	V
	1406	-54.99	-13	-41.99	-58.23	1.11	6.50	Н
	2110	-58.58	-13	-45.58	-61.20	1.43	6.20	Н
Middle	2812	-59.63	-13	-46.63	-64.07	1.71	8.30	Н
ivildale	1406	-63.48	-13	-50.48	-66.72	1.11	6.50	V
	2110	-60.23	-13	-47.23	-62.85	1.43	6.20	V
	2812	-59.29	-13	-46.29	-63.73	1.71	8.30	V
	1414	-55.22	-13	-42.22	-58.46	1.11	6.50	Н
	2120	-59.97	-13	-46.97	-62.59	1.43	6.20	Н
l limb and	2826	-59.81	-13	-46.81	-64.25	1.71	8.30	Н
Highest	1414	-64.37	-13	-51.37	-67.61	1.11	6.50	V
	2120	-60.40	-13	-47.40	-63.02	1.43	6.20	V
	2826	-59.44	-13	-46.44	-63.88	1.71	8.30	V

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

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