# **FCC RF Test Report**

APPLICANT : Lantronix, Inc.

EQUIPMENT : GNSS / GSM / UMTS / BLE - Device

BRAND NAME : Lantronix

MODEL NAME : FOX3-3G-BLE

FCC ID : R68FOX3-3G-BLE

STANDARD : 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was installed a module: GSM/W-CDMA Module SARA-U201 (FCC ID: XPY1CGM5NNN) during the test.

The product was received on Sep. 05, 2018 and completely tested on Jul. 27, 2019. We, Sporton International (ShenZhen) 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

Fire Shih

Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

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People's Republic of China

Sporton International (Shenzhen) Inc.

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Report No.: FG890508

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG890508	Rev. 01	Initial issue of report	Sep. 30, 2019

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### **SUMMARY OF TEST RESULT**

Report Section	FUCKINE Description		Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	1
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	1
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	1
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	1
2.0	§2.1055 §22.355	Frequency Stability	< 2.5 ppm for Part 22H	PASS	1
3.9	§2.1055 §24.235	for Temperature & Voltage	Within Authorized Band	PASS	1
4.4	\$2.1053 \$22.917(a) \$24.238(a) Field Strength of Spurious Radiation		< 43+10log10(P[Watts])	PASS	Under limit 38.12 dB at 1672.800 MHz

#### Remark 1:

The conducted test items were leverage from module RF report which can refer to Report No. "16-1-0019501T07a (For GSM) and TR16-1-0019501T05a (For WCDMA)".

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### 1 General Description

### 1.1 Applicant

Lantronix, Inc.

7535 Irvine Center Drive, Suite 100, Irvine, CA 92618, USA

### 1.2 Manufacturer

Lantronix, Inc.

7535 Irvine Center Drive, Suite 100, Irvine, CA 92618, USA

### 1.3 Product Feature of Equipment Under Test

Product Feature					
Equipment	GNSS / GSM / UMTS / BLE - Device				
Brand Name	Lantronix				
Model Name	FOX3-3G-BLE				
FCC ID	R68FOX3-3G-BLE				
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/Bluetooth LE/GNSS				
IMEI Code	Radiation: 357520075851325				
HW Version	P281_Rev03c				
SW Version	3.1.0				
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.

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### 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
	GPRS/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz		
T., F.,	1900:	1850.2 MHz ~ 1909.8MHz		
Tx Frequency	WCDMA:			
	Band V:	826.4 MHz ~ 846.6 MHz		
	Band II:	1852.4 MHz ~ 1907.6 MHz		
	GPRS/ED	GE:		
	850:	869.2 MHz ~ 893.8 MHz		
Dy Francisco	1900:	1930.2 MHz ~ 1989.8 MHz		
Rx Frequency	WCDMA:			
	Band V:	871.4 MHz ~ 891.6 MHz		
	Band II:	1932.4 MHz ~ 1987.6 MHz		
	GPRS/EDGE:			
	850:	32.13 dBm		
Maximum Output Pawar ta Antanna	1900:	29.11 dBm		
Maximum Output Power to Antenna	WCDMA:			
	Band V:	22.98 dBm		
	Band II:	22.58 dBm		
Antenna Type	Fixed Exter	nal Antenna		
Antonno Coin	Cellular Ba	nd: 2.00 dBi		
Antenna Gain	PCS Band:	2.00 dBi		
	GPRS: GMSK			
	EDGE: GMSK / 8PSK			
Type of Modulation	WCDMA: BPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			

### 1.5 Modification of EUT

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

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### 1.6 Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)
Part 22H	GSM850 GSM	GMSK	1.5776
Part 22H	GSM850 EDGE class 8	8PSK	0.4266
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.1919
Part 24E	GSM1900 GSM	GMSK	1.2912
Part 24E	Part 24E GSM1900 EDGE class 8		0.5321
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.2871

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### 1.7 Testing Location

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

Test Firm	Sporton International (Sh	Sporton International (Shenzhen) Inc.					
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398						
Tool Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
Test Site No.	03CH01-SZ	CN1256	421272				

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### 1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E)
- 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 1. during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, 2. recorded in a separate test report.

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### 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

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

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

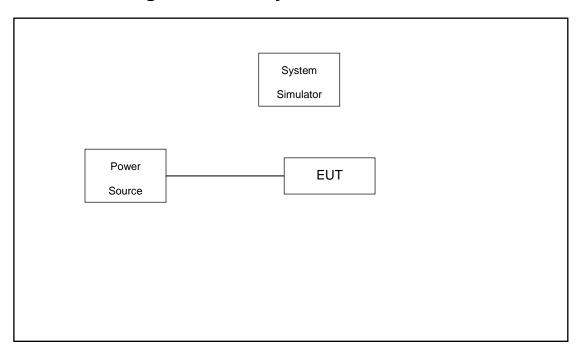
Band	Radiated TCs
GSM 850	■ GPRS class 8 Link
G3IVI 650	■ EDGE class 8 Link
CSM 4000	■ GPRS class 8 Link
GSM 1900	■ EDGE class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link

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## 2.2 Connection Diagram of Test System



# 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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# 2.4 Frequency List of Low/Middle/High Channels

Frequency List							
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest			
GSM850	Channel	128	189	251			
GSIVIOSU	Frequency	824.2	836.4	848.8			
WCDMA	Channel	4132	4182	4233			
Band V	Frequency	826.4	836.4	846.6			
GSM1900	Channel	512	661	810			
G2M1900	Frequency	1850.2	1880.0	1909.8			
WCDMA	Channel	9262	9400	9538			
Band II	Frequency	1852.4	1880.0	1907.6			

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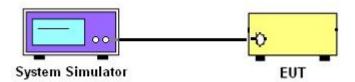
#### 3 Conducted Test Result

### 3.1 Measuring Instruments

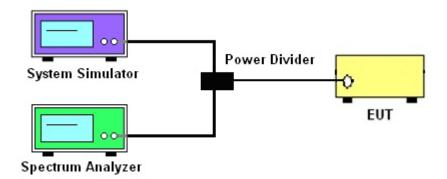
See list of measuring instruments of this test report.

### 3.2 Test Setup

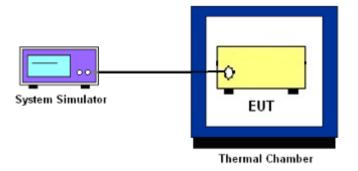
#### 3.2.1 Conducted Output Power



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



#### 3.2.3 Frequency Stability



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

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### 3.4 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

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<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

- 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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### 3.5 Peak-to-Average Ratio

#### 3.5.1 Description of the PAR Measurement

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.

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### 3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

#### 3.6.2 Test Procedures

- 1. The testing follows 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.
- 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.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

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

#### 3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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

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

#### 3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

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

#### 3.9.2 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.

#### 3.9.3 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.

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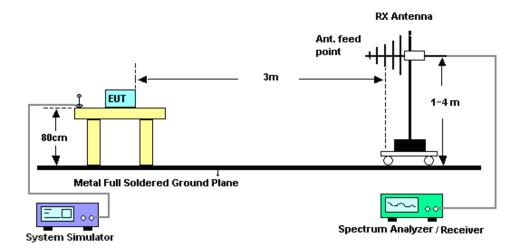
#### 4 Radiated Test Items

### 4.1 Measuring Instruments

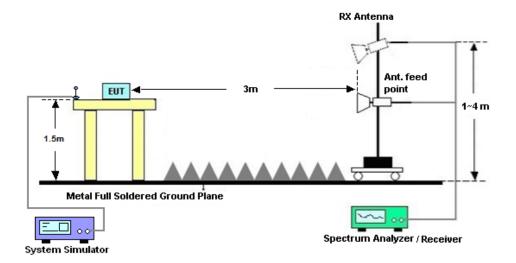
See list of measuring instruments of this test report.

### 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 Field Strength of Spurious Radiation Measurement

#### 4.4.1 Description of Field Strength of Spurious Radiated Measurement

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 rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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# 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Aug. 30, 2018	Jul. 27, 2019	Aug. 29, 2019	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 22, 2018	Jul. 27, 2019	Dec. 21, 2019	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jun. 05, 2019	Jul. 27, 2019	Jun. 04, 2020	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jun. 27, 2019	Jul. 27, 2019	Jun. 26, 2020	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2019	Jul. 27, 2019	Mar. 29, 2020	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2019	Jul. 27, 2019	Apr. 18, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1707137	1GHz~18GHz	Oct. 19, 2018	Jul. 27, 2019	Oct. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2019	Jul. 27, 2019	Jul. 17, 2020	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jul. 27, 2019	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 27, 2019	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 27, 2019	NCR	Radiation (03CH01-SZ)

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	2.5dB
Confidence of 95% (U = 2Uc(y))	2.306

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

Measuring Uncertainty for a Level of	3 EAD
Confidence of 95% (U = 2Uc(y))	3.5dB

#### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

- 1		
	Measuring Uncertainty for a Level of	4.0dB
	Confidence of 95% (U = 2Uc(y))	4.VUB

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

# **Conducted Output Power (Average power)**

Conducted Power (*Unit: dBm)									
Band		GSM850							
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GPRS class 8	32.11	<mark>32.13</mark>	32.11	29.10	<mark>29.11</mark>	29.07			
GPRS class 10	32.11	32.12	32.11	29.09	29.09	29.06			
GPRS class 11	31.29	31.29	31.28	28.28	28.27	28.25			
GPRS class 12	30.15	30.17	30.16	27.09	27.09	27.07			
EGPRS class 8	26.38	26.37	26.45	25.18	25.23	25.26			
EGPRS class 10	26.34	26.35	26.43	25.16	25.22	25.24			
EGPRS class 11	25.57	25.55	25.58	24.41	24.32	24.43			
EGPRS class 12	24.29	24.36	24.34	23.18	23.21	23.24			

Conducted Power (*Unit: dBm)								
Band	WC	DMA Ban	d V	WCDMA Band II				
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6		
RMC 12.2K	<b>22.98</b>	22.85	22.82	22.32	<mark>22.58</mark>	22.13		
HSDPA Subtest-1	22.93	22.80	22.76	22.28	22.35	22.14		
HSDPA Subtest-2	22.20	22.03	22.01	21.53	21.93	21.44		
HSDPA Subtest-3	21.97	21.80	21.72	21.33	21.70	21.20		
HSDPA Subtest-4	21.65	21.55	21.46	21.02	21.43	20.95		
HSUPA Subtest-1	22.09	22.01	21.96	21.51	21.86	21.39		
HSUPA Subtest-2	20.15	19.92	19.99	19.57	19.76	19.42		
HSUPA Subtest-3	20.89	20.78	20.74	20.33	20.66	20.26		
HSUPA Subtest-4	20.36	20.30	20.12	19.82	20.21	19.73		
HSUPA Subtest-5	22.30	22.10	22.10	21.60	22.00	21.50		

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# ERP/EIRP

GSM850 (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	128	189	251			
	(Low)	(Mid)	(High)			
Frequency	024.2	020.4	848.8			
(MHz)	824.2	836.4				
Conducted Power (dBm)	32.11	32.13	32.11			
Conducted Power (Watts)	1.6255	1.6331	1.6255			
ERP(dBm)	31.96	31.98	31.96			
ERP(Watts)	1.5704	1.5776	1.5704			

EDGE850 (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	128	189	251			
	(Low)	(Mid)	(High)			
Frequency	024.2	020.4	0.40.0			
(MHz)	824.2	836.4	848.8			
Conducted Power (dBm)	26.38	26.37	26.45			
Conducted Power (Watts)	0.4345	0.4335	0.4416			
ERP(dBm)	26.23	26.22	26.30			
ERP(Watts)	0.4198	0.4188	0.4266			

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GSM1900 (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	512	661	810			
Channel	(Low)	(Mid)	(High)			
Frequency	4050.0	4000	1909.8			
(MHz)	1850.2	1880				
Conducted Power (dBm)	29.10	29.11	29.07			
Conducted Power (Watts)	0.8128	0.8147	0.8072			
EIRP(dBm)	31.10	31.11	31.07			
EIRP(Watts)	1.2882	1.2912	1.2794			

EDGE1900 (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	512	661	810			
Channel	(Low)	(Mid)	(High)			
Frequency	4950.2	4000	4000.8			
(MHz)	1850.2	1880	1909.8			
Conducted Power (dBm)	25.18	25.23	25.26			
Conducted Power (Watts)	0.3296	0.3334	0.3357			
EIRP(dBm)	27.18	27.23	27.26			
EIRP(Watts)	0.5224	0.5284	0.5321			

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WCDMA Band V (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	4132	4182	4233			
	(Low)	(Mid)	(High)			
Frequency	000.4	020.4	0.40.0			
(MHz)	826.4	836.4	846.6			
Conducted Power (dBm)	22.98	22.85	22.82			
Conducted Power (Watts)	0.1986	0.1928	0.1914			
ERP(dBm)	22.83	22.70	22.67			
ERP(Watts)	0.1919	0.1862	0.1849			

WCDMA Band II (G <sub>T</sub> - L <sub>C</sub> = 2.00 dB)						
Channel	9262	9400	9538			
	(Low)	(Mid)	(High)			
Frequency	4050.4	4000	4007.0			
(MHz)	1852.4	1880	1907.6			
Conducted Power (dBm)	22.32	22.58	22.13			
Conducted Power (Watts)	0.1706	0.1811	0.1633			
EIRP(dBm)	24.32	24.58	24.13			
EIRP(Watts)	0.2704	0.2871	0.2588			

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

# **Radiated Spurious Emission**

				GSM850 (G	PRS class 8	3)			
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1648.4	-61.88	-13	-48.88	-72.63	-65.11	3.98	9.36	Н
	2472.6	-60.20	-13	-47.20	-78.54	-63.75	4.85	10.55	Н
Lowest	3296.8	-58.63	-13	-45.63	-78.94	-63.56	5.50	12.58	Н
Lowest	1648.4	-65.49	-13	-52.49	-76.88	-68.72	3.98	9.36	V
	2472.6	-60.05	-13	-47.05	-78.71	-63.60	4.85	10.55	V
	3296.8	-58.35	-13	-45.35	-79.55	-63.28	5.50	12.58	V
	1672.8	-51.12	-13	-38.12	-62.06	-54.37	4.00	9.40	Н
	2509.2	-52.08	-13	-39.08	-70.68	-55.65	4.88	10.60	Н
Middle	3345.6	-57.73	-13	-44.73	-78.34	-62.66	5.52	12.60	Н
Middle	1672.8	-57.28	-13	-44.28	-68.93	-60.53	4.00	9.40	V
	2509.2	-54.06	-13	-41.06	-72.87	-57.63	4.88	10.60	V
	3345.6	-57.23	-13	-44.23	-78.14	-62.16	5.52	12.60	V
	1697.6	-62.72	-13	-49.72	-73.98	-65.89	4.10	9.42	Н
	2546.4	-59.64	-13	-46.64	-78.37	-63.22	4.90	10.63	Н
I limb and	3395.2	-59.25	-13	-46.25	-78.60	-64.17	5.55	12.62	Н
Highest	1697.6	-62.73	-13	-49.73	-74.66	-65.90	4.10	9.42	V
	2546.4	-59.33	-13	-46.33	-78.28	-62.91	4.90	10.63	V
	3395.2	-58.10	-13	-45.10	-78.78	-63.02	5.55	12.62	V

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

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				GSM850 (E	DGE class 8	3)			
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1672.8	-62.57	-13	-49.57	-73.51	-65.80	3.98	9.36	Н
	2509.2	-59.32	-13	-46.32	-77.92	-62.87	4.85	10.55	Н
Lowoot	3345.6	-57.78	-13	-44.78	-78.39	-62.71	5.50	12.58	Н
Lowest	1672.8	-61.58	-13	-48.58	-73.23	-64.81	3.98	9.36	V
	2509.2	-58.99	-13	-45.99	-77.80	-62.54	4.85	10.55	V
	3345.6	-58.00	-13	-45.00	-78.91	-62.93	5.50	12.58	V
	1672.8	-62.57	-13	-49.57	-73.51	-65.82	4.00	9.40	Н
	2509.2	-59.32	-13	-46.32	-77.92	-62.89	4.88	10.60	Н
Mi al all a	3345.6	-57.78	-13	-44.78	-78.39	-62.71	5.52	12.60	Н
Middle	1672.8	-61.58	-13	-48.58	-73.23	-64.83	4.00	9.40	V
	2509.2	-58.99	-13	-45.99	-77.80	-62.56	4.88	10.60	V
	3345.6	-58.00	-13	-45.00	-78.91	-62.93	5.52	12.60	V
	1697.6	-66.27	-13	-53.27	-77.53	-69.44	4.10	9.42	Н
	2546.4	-59.56	-13	-46.56	-78.29	-63.14	4.90	10.63	Н
l limbost	3395.2	-59.86	-13	-46.86	-79.21	-64.78	5.55	12.62	Н
Highest	1697.6	-65.57	-13	-52.57	-77.50	-68.74	4.10	9.42	V
	2546.4	-59.88	-13	-46.88	-78.83	-63.46	4.90	10.63	V
	3395.2	-58.44	-13	-45.44	-79.12	-63.36	5.55	12.62	V

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GSM1900 (GPRS class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
1	3700.4	-56.97	-13	-43.97	-79.57	-63.73	5.82	12.58	Н
	5550.6	-57.06	-13	-44.06	-80.97	-62.78	7.28	13.00	Н
	7400.8	-54.69	-13	-41.69	-81.03	-57.85	8.32	11.48	Н
Lowest	3700.4	-54.72	-13	-41.72	-79.01	-61.48	5.82	12.58	V
	5550.6	-56.48	-13	-43.48	-80.82	-62.20	7.28	13.00	V
	7400.8	-54.87	-13	-41.87	-81.18	-58.03	8.32	11.48	V
	3760	-58.20	-13	-45.20	-80.14	-64.95	5.85	12.60	Н
	5640	-57.18	-13	-44.18	-80.80	-62.98	7.30	13.10	Н
Mi al all a	7520	-55.45	-13	-42.45	-81.33	-58.60	8.35	11.50	Н
Middle	3760	-55.53	-13	-42.53	-80.63	-62.28	5.85	12.60	V
	5640	-57.44	-13	-44.44	-81.21	-63.24	7.30	13.10	V
	7520	-55.32	-13	-42.32	-81.18	-58.47	8.35	11.50	V
	3819.6	-58.07	-13	-45.07	-80.45	-64.81	5.88	12.62	Н
	5729.4	-56.68	-13	-43.68	-80.80	-62.49	7.32	13.13	Н
Highest	7639.2	-55.16	-13	-42.16	-80.64	-58.32	8.38	11.54	Н
	3819.6	-56.59	-13	-43.59	-80.57	-63.33	5.88	12.62	V
	5729.4	-56.56	-13	-43.56	-81.16	-62.37	7.32	13.13	V
	7639.2	-54.11	-13	-41.11	-80.62	-57.27	8.38	11.54	V

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GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3700.4	-56.68	-13	-43.68	-79.28	-63.44	5.82	12.58	Н
	5550.6	-56.89	-13	-43.89	-80.80	-62.61	7.28	13.00	Н
	7400.8	-54.72	-13	-41.72	-81.06	-57.88	8.32	11.48	Н
Lowest	3700.4	-54.94	-13	-41.94	-79.23	-61.70	5.82	12.58	V
	5550.6	-56.73	-13	-43.73	-81.07	-62.45	7.28	13.00	V
	7400.8	-54.57	-13	-41.57	-80.88	-57.73	8.32	11.48	V
	3760	-57.92	-13	-44.92	-79.86	-64.67	5.85	12.60	Н
	5640	-57.46	-13	-44.46	-81.08	-63.26	7.30	13.10	Н
Mi al all a	7520	-55.21	-13	-42.21	-81.09	-58.36	8.35	11.50	Н
Middle	3760	-55.21	-13	-42.21	-80.31	-61.96	5.85	12.60	V
	5640	-57.04	-13	-44.04	-80.81	-62.84	7.30	13.10	V
	7520	-55.05	-13	-42.05	-80.91	-58.20	8.35	11.50	V
Highest	3819.6	-57.37	-13	-44.37	-79.75	-64.11	5.88	12.62	Н
	5729.4	-56.34	-13	-43.34	-80.46	-62.15	7.32	13.13	Н
	7639.2	-55.06	-13	-42.06	-80.54	-58.22	8.38	11.54	Н
	3819.6	-55.95	-13	-42.95	-79.93	-62.69	5.88	12.62	V
	5729.4	-55.89	-13	-42.89	-80.49	-61.70	7.32	13.13	V
	7639.2	-54.16	-13	-41.16	-80.67	-57.32	8.38	11.54	V

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WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
1	1652.8	-66.29	-13	-53.29	-77.10	-69.52	3.98	9.36	Н
	2479.2	-59.66	-13	-46.66	-78.00	-63.21	4.85	10.55	Н
	3305.6	-59.05	-13	-46.05	-79.46	-63.98	5.50	12.58	Н
Lowest	1652.8	-66.04	-13	-53.04	-77.49	-69.27	3.98	9.36	V
	2479.2	-59.88	-13	-46.88	-78.54	-63.43	4.85	10.55	V
	3305.6	-57.90	-13	-44.90	-79.01	-62.83	5.50	12.58	V
	1672.8	-65.83	-13	-52.83	-76.77	-69.08	4.00	9.40	Н
	2509.2	-58.77	-13	-45.77	-77.37	-62.34	4.88	10.60	Н
Middle	3345.6	-57.97	-13	-44.97	-78.58	-62.90	5.52	12.60	Н
Middle	1672.8	-65.24	-13	-52.24	-76.89	-68.49	4.00	9.40	V
	2509.2	-59.02	-13	-46.02	-77.83	-62.59	4.88	10.60	V
	3345.6	-57.52	-13	-44.52	-78.43	-62.45	5.52	12.60	V
	1693.2	-66.38	-13	-53.38	-77.64	-69.55	4.10	9.42	Н
Highest	2539.8	-59.67	-13	-46.67	-78.40	-63.25	4.90	10.63	Н
	3386.4	-59.88	-13	-46.88	-79.65	-64.80	5.55	12.62	Н
	1693.2	-65.73	-13	-52.73	-77.66	-68.90	4.10	9.42	V
	2539.8	-59.79	-13	-46.79	-78.74	-63.37	4.90	10.63	V
	3386.4	-58.74	-13	-45.74	-79.50	-63.66	5.55	12.62	V

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WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency ( MHz )	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3704.8	-56.57	-13	-43.57	-79.17	-63.33	5.82	12.58	Н
	5557.2	-56.73	-13	-43.73	-80.64	-62.45	7.28	13.00	Н
Lowest	7409.6	-54.21	-13	-41.21	-80.55	-57.37	8.32	11.48	Н
Lowest	3704.8	-54.83	-13	-41.83	-79.12	-61.59	5.82	12.58	V
	5557.2	-56.26	-13	-43.26	-80.6	-61.98	7.28	13.00	V
	7409.6	-54.25	-13	-41.25	-80.56	-57.41	8.32	11.48	V
	3760	-57.56	-13	-44.56	-79.50	-64.31	5.85	12.60	Н
	5640	-57.00	-13	-44.00	-80.62	-62.80	7.30	13.10	Н
Middle	7520	-55.00	-13	-42.00	-80.88	-58.15	8.35	11.50	Н
Middle	3760	-55.55	-13	-42.55	-80.65	-62.30	5.85	12.60	V
	5640	-56.96	-13	-43.96	-80.73	-62.76	7.30	13.10	V
	7520	-54.73	-13	-41.73	-80.59	-57.88	8.35	11.50	V
	3815.2	-57.60	-13	-44.60	-79.98	-64.34	5.88	12.62	Н
Highest	5722.8	-56.57	-13	-43.57	-80.69	-62.38	7.32	13.13	Н
	7630.4	-55.06	-13	-42.06	-80.58	-58.22	8.38	11.54	Н
	3815.2	-54.84	-13	-41.84	-78.82	-61.58	5.88	12.62	V
	5722.8	-56.11	-13	-43.11	-80.71	-61.92	7.32	13.13	V
	7630.4	-54.18	-13	-41.18	-80.38	-57.34	8.38	11.54	V

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