

FCC Test Report

APPLICANT : CT Asia

EQUIPMENT : **GSM** mobile phone

BRAND NAME : BLU

MODEL NAME : Samba JR

FCC ID : YHLBLUSAMBJR

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on Aug. 15, 2011 and completely tested on Aug. 29, 2011. We, SPORTON INTERNATIONAL (KUNSAHN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the 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:

Jones Tsai / Manager

TAI
Testing Labor
1190

Report No.: FD181517

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUSAMBJR Page Number : 1 of 19
Report Issued Date : Nov. 30, 2011

Report Version : Rev. 01





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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD181517	Rev. 01	Initial issue of report	Nov. 30, 2011

SPORTON INTERNATIONAL (KUNSHAN) INC.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	6.43 dB at
					0.91 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	1.10 dB at
					337.80 MHz

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1. General Description

1.1. Applicant

CT Asia

RMA2011, 20/F, GOLDEN CENTRAL TOWER, NO.3037# JINTIAN ROAD, FUTIAN DISTRICT

Report No.: FD181517

1.2. Manufacturer

zechin communication co., Ltd.

Unit804, 8th Floor Desay Tech Building Gaoxin Road South, Nanshan District Shenzhen, China

1.3. Feature of Equipment Under Test

Product F	eature & Specification
Equipment	GSM mobile phone
Brand Name	BLU
Model Name	Samba JR
FCC ID	YHLBLUSAMBJR
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
Antenna Type	Fixed Internal Antenna
HW Version	X321-MB-V6.0
SW Version	X321_1C_ZX_TC311_V05
Type of Modulation	GMSK
EUT Stage	Identical Prototype

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are four different types of EUT. They are single SIM card without camera mobile, double SIM card without camera mobile, single SIM card with camera mobile, double SIM card with camera mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan four types of EUT, we found test result of the sample that DUAL SIM and with camera was the worst, so we choose double SIM card with camera mobile to perform all test.

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1.4. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, J	liangsu Province, P.R.C.				
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Took Oito No	Sporton Site No.					
Test Site No.	CO01-KS	03CH01-KS				

1.5. Applied Standards

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

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This report is intention of applying for FCC 15B certification only.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	PC	DELL	MT380	FCC DoC	N/A	Unshielded, 1.8 m
3.	Monitor	DELL	E1910Hc	FCC DoC	Shielded, 1.2 m	Unshielded, 1.8 m
4.	(USB) Keyboard	DELL	L100	FCC DoC	Shielded, 1.8 m with core	N/A
5.	(USB)Mouse	DELL	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
6.	iPod	Apple	A1199	FCC DoC	Unshielded, 1.2 m	N/A
7.	Printer	HP	Laser Jet 1018	FCC DoC	Shielded, 1.8 m	Unshielded, 1.8 m

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

			Test Condition	
Item	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G
1.	Data application transferred Mode (EUT with PC)	\boxtimes	\boxtimes	\boxtimes

Abbreviations:

• EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1::GSM850 Idle + USB Cable (Data Link with PC) + Earphone
Radiated Emissions < 1GHz	1	Mode 1: GSM1900 Idle + USB Cable (Data Link with PC) + Earphone
Radiated Emissions ≥ 1GHz	1	Mode 1: GSM1900 Idle + USB Cable (Data Link with PC) + Earphone

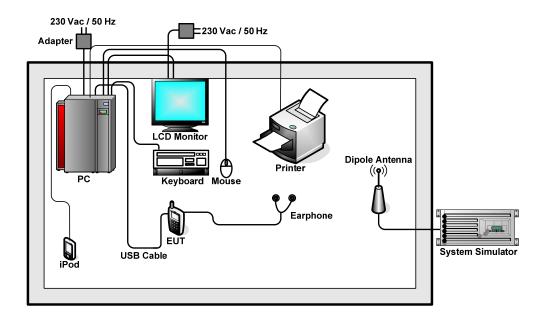
Remark: Data Link with PC means data application transferred mode between DUT and PC.

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2.2. Connection Diagram of Test System



2.3. Test Software

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the following programs installed in the EUT were programmed during the test.

- 1. Execute the program, "Winthrax", installed in notebook or PC for active sync files transfer with EUT via USB cable / iPod.
- 2. To keep EUT receiving signals from Base Station continuously.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted limit (dBuV)							
(MHz)	Quasi-peak	Average						
0.15-0.5	66 to 56*	56 to 46*						
0.5-5	56	46						
5-30	60	50						

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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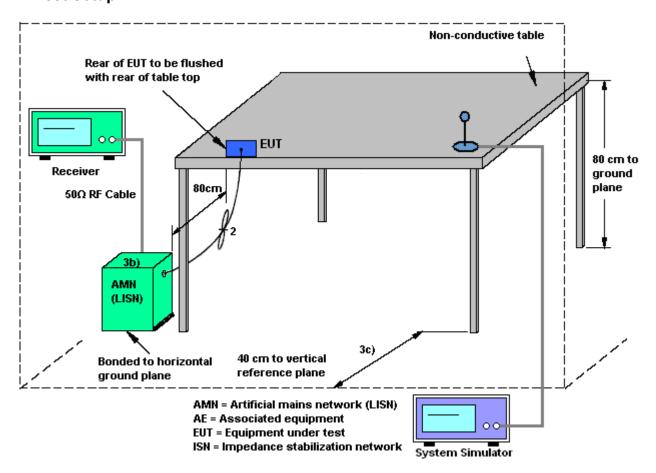
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3.1.4 Test Setup



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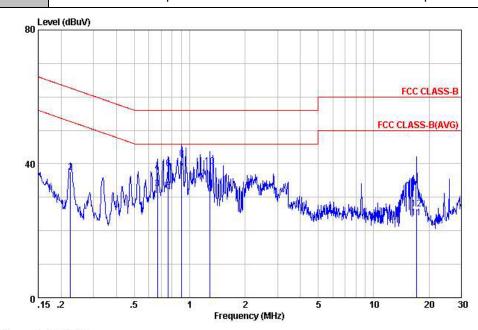




3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	20~21℃
Test Engineer :	Jack Li	Relative Humidity :	40~41%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + USB Cable (Data Link with PC) + E	Earphone

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : COO1-KS

Condition: FCC CLASS-B LISN-100807 LINE

Project : (FD) 181517

IMEI : 251888101011086

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
<u>-</u>	MHz	dBu₹		dBu₹	dBuV		dB	
	0.22	37.58	-25.08	62.66	27.50	-0.07	10.15	QP
	0.22	37.38	-15.28	52.66	27.30	-0.07	10.15	Average
	0.67	32.64	-13.36	46.00	22.50	-0.09	10.23	Average
	0.67	37.44	-18.56	56.00	27.30	-0.09	10.23	QP ~
	0.76	31.85	-14.15	46.00	21.70	-0.09	10.24	Average
	0.76	38.45	-17.55	56.00	28.30	-0.09	10.24	QP
	0.90	37.46	-8.54	46.00	27.31	-0.10	10.25	Average
	0.90	41.46	-14.54	56.00	31.31	-0.10	10.25	
	1.29	30.88	-15.12	46.00	20.69	-0.10	10.29	Average
	1.29	39.28	-16.72	56.00	29.09	-0.10	10.29	
	17.20	23.86	-26.14	50.00	13.30	0.02	10.54	Average
	17.20	26.46	-33.54	60.00	15.90	0.02	10.54	OP

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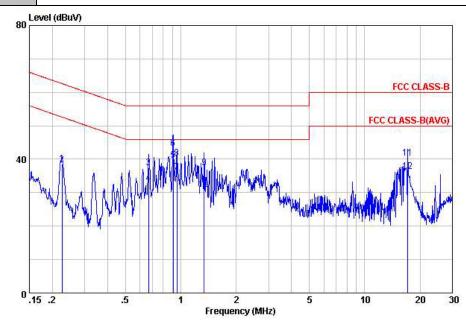
 Test Mode :
 Mode 1
 Temperature :
 20~21°C

 Test Engineer :
 Jack Li
 Relative Humidity :
 40~41%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral

 Function Type :
 GSM850 Idle + USB Cable (Data Link with PC) + Earphone

Remark: All emissions not reported here are more than 10 dB below the prescribed limit.



Site : C001-KS

Condition: FCC CLASS-B LISN-100807 NEUTRAL

Project : (FD) 181517

IMEI : 251888101011086

Ε	req	Le	vel		ver mit		mit ine		ead vel	I Fac	ISN tor	Cat Lc		Remark
	MHz	- 6	BuV		dE	3 <u>d</u>	BuV	dI	Bu₹		dB		dВ	
(0.23	38	. 58	-24	. 03	62	.61	28	.49	-0	.07	10.	16	QP
0	1.23	38	.38	-14	. 23	52	.61	28	.29	-0	.07	10.	16	Average
0	0.67	37	.45	-18	.55	56	.00	27	.30	-0	.08	10.	23	QP
0	0.67	32	.75	-13	. 25	46	.00	22	.60	-0	.08	10.	23	Average
0	0.91	39	.57	-6	. 43	46	.00	29	40	-0	.09			Average
0	91	43	.27	-12	.73	56	.00	33	.10	-0	.09	10.		
0	0.95	36	.07	-9	.93	46	.00	25	.90	-0	.09	10.	26	Average
0	95	40	.37	-15	. 63	56	.00	30	.20	-0	.09	10.		
1	.34	37	.49	-18	.51	56	.00	27	.30	-0	.10	10.	29	ÖP
1	1.34	30	.89	-15	. 11	46	.00	20	.70	-0	.10			Average
17	7.20	40	. 44	-19	.56	60	.00	29	.89	0	.01	10.		
17	7.20	36	.34	-13	.66	50	.00	25	.79	0	.01			Average

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

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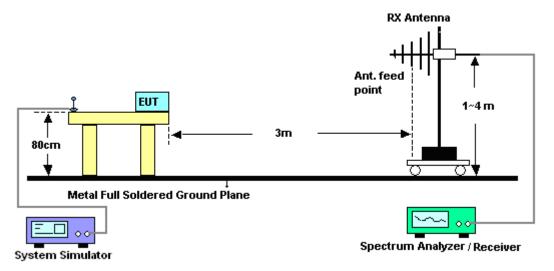
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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
- 8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission



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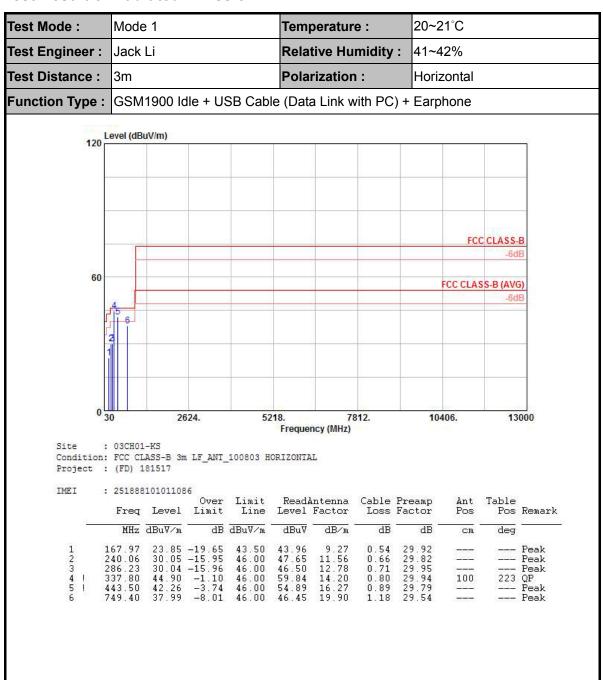
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3.2.5. Test Result of Radiated Emission

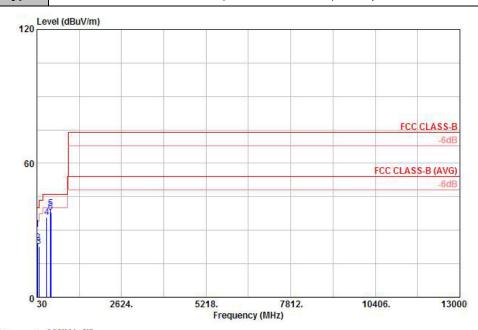


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Test Mode :Mode 1Temperature :20~21°CTest Engineer :Jack LiRelative Humidity :41~42%Test Distance :3mPolarization :Vertical

Function Type: GSM1900 Idle + USB Cable (Data Link with PC) + Earphone



Site : 03CH01-KS

Condition: FCC CLASS-B 3m LF_ANT_100803 VERTICAL

Project : (FD) 181517

IMEI : 251888101011086

PILL	. 231000	TIGITATION	J U								
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
32	MHz	$\overline{\mathtt{dBuV/m}}$	dB	$\overline{\mathtt{dBuV/m}}$	dBuV	dB/m	<u>dB</u>	dB	CM	deg	
1	30.00	30.37	-9.63	40.00	42.19	18.00	0.26	30.08	-		Peak
2	53.76	24.45	-15.55	40.00	47.49	6.80	0.29	30.13		3 3 3 3	Peak
3	95.61	22.57	-20.93	43.50	42.23	9.91	0.40	29.97		-	Peak
4	337.80	35.64	-10.36	46.00	50.58	14.20	0.80	29.94	4-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	0.000000	Peak
5	443.50	39.91	-6.09	46.00	52.54	16.27	0.89	29.79	100	228	Peak
6	456.10	38.05	-7.95	46.00	50.54	16.38	0.91	29.78			Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 02, 2011	Jun. 01, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	N/A	Nov. 10, 2010	Nov. 09, 2011	Conduction (CO01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 07, 2011	Jan. 06, 2012	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 16, 2010	Nov. 15, 2011	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2010	Dec. 06, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1MHz~18GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Dec. 09, 2010	Dec. 08, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 07, 2011	Jan. 06, 2012	Radiation (03CH01-KS)
Actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 09, 2010	Nov. 08, 2011	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA170249	15-40GHz	Oct. 15,2010	Oct. 14,2011	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 07, 2011	Jan. 06, 2012	

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5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.10	Normal (k=2)	0.05	
Cable Loss	0.10	Normal (k=2)	0.05	
AMN Insertion Loss	2.50	Rectangular	0.63	
Receiver Specification	1.50	Rectangular	0.43	
Site Imperfection	1.39	Rectangular	0.80	
Mismatch	+0.34 / -0.35	U-Shape	0.24	
Combined Standard Uncertainty Uc(y)	1.13			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26			

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

	Uncerta			
Contribution	dB	Probability Distribution	u(X _i)	
Receiver Reading	0.41	Normal (k=2)	0.21	
Antenna Factor Calibration	0.83	Normal (k=2)	0.42	
Cable Loss Calibration	0.25	Normal (k=2)	0.13	
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14	
RCV/SPA Specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site Imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39 / -0.41	U-Shape	0.28	
Combined Standard Uncertainty Uc(y)	1.27			
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54			

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

	Uncertai					
Contribution	dB Probability Distribution		u(X _i)	C _i	C _i * u(X _i)	
Receiver Reading	±0.10	Normal (k=2)	0.10	1	0.10	
Antenna Factor Calibration	±1.70	Normal (k=2)	0.85	1	0.85	
Cable Loss Calibration	±0.50	Normal (k=2)	0.25	1	0.25	
Receiver Correction	±2.00	Rectangular	1.15	1	1.15	
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87	
Site Imperfection	±2.80	Triangular	1.14	1	1.14	
Mismatch Receiver VSWR Γ 1 = 0.197 Antenna VSWR Γ 2 = 0.194 Uncertainty = 20Log(1- Γ 1* Γ 2)	+0.34 / -0.35	U-Shape	0.244	1	0.244	
Combined Standard Uncertainty Uc(y)	2.36					
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.72					

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP181517 as below.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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