

Report No.: FG090824-01

Variant FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT : **GSM** mobile phone

BRAND NAME : BLU MODEL NAME : Click

FCC ID : YHLBLUCLICK

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

Tx/Rx FREQUENCY RANGE : GSM850 : 824.2 ~ 848.8 MHz /

869.2 ~ 893.8 MHz

GSM1900 : 1850.2 ~ 1909.8 MHz / 1930.2 ~ 1989.8 MHz

MAX. ERP/EIRP POWER : GSM850 (GSM) : 0.71 W

GSM1900 (GSM): 0.84 W

This is a variant report which is only valid combined with the original test report. The product was received on Oct. 26, 2010 and completely tested on Nov. 02, 2010. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 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:

Anderson Chiu / Deputy Manager



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: Rev. 01

Report Issued Date: Nov. 02, 2010

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG090824-01	Rev. 01	This is a variant report which can be referred to appendix C for Product Equality Declaration. All the test cases were performed on original report which can be referred to Sporton Report Number FG090824 as appendix D. Based on the original report; only ERP/EIRP and Spurious Radiated Emission were verified.	Nov. 02, 2010

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SUMMARY OF TEST RESULT

Report Section	FCC Rule IC Rule Descrip		Description	Limit	Result	Remark
3.1	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.13 dB at 1674 MHz

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General Description 1

1.1 Applicant

CT Asia

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

1.2 Manufacturer

Telacom INT'L Limited (Shenzhen) Office

Office Tower 28/F., the Pavilion Hotel, Hua Qiang Bei Road 4002, Futian District, 518028, Shenzhen, P.R.C.

1.3 Feature of Equipment Under Test

Product Feature & Specification						
Equipment	GSM mobile phone					
Brand Name	BLU					
Model Name	Click					
FCC ID	YHLBLUCLICK					
Tx Frequency	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz					
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz					
Maximum ERP/EIRP	GSM850 (GSM) : 0.71 W (28.53 dBm) GSM1900 (GSM) : 0.84 W (29.22 dBm)					
Antenna Type	Fixed Internal Antenna					
HW Version	M118D_MB_P2					
SW Version	TL_M118DPU891_F05LK0A_00_28_101020					
Type of Modulation	GMSK					
EUT Stage Production Unit						

Remark:

- This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).
- 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 Testing Site

Test Site SPORTON INTERNATIONAL (KUNSHAN) INC.					
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958				
Test Site No.	Sporton Site No. 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 Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

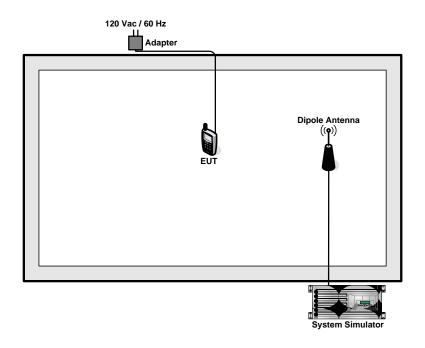
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is as follows:

- 1. 30 MHz to 9000 MHz for GSM850.
- 30 MHz to 19000 MHz for GSM1900.

Test Modes						
Band	Radiated TCs					
GSM 850	■ GSM Link					
GSM 1900	■ GSM Link					

2.2 Connection Diagram of Test System



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3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 Description of the ERP/EIRP Measurement

ERP/EIRP is measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

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3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.0 meter height in a fully anechoic chamber.
- 2. The EUT was set at 1.2 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 4. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 5. Taking the record of maximum ERP/EIRP.
- 6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. The conducted power at the terminal of the dipole antenna is measured.
- 8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 9. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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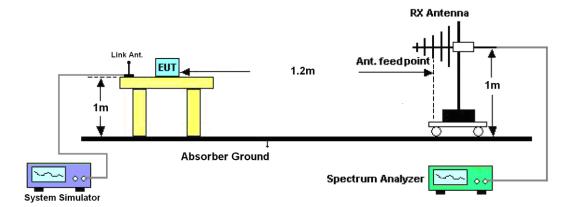
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3.1.4 Test Setup



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3.1.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP								
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-19.32	-48.12	0.00	-1.08	27.72	0.59		
836.40	-18.82	-48.28	0.00	-0.93	28.53	0.71		
848.80	-19.50	-48.35	0.00	-0.76	28.09	0.64		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-32.68	-47.97	0.00	-1.08	14.21	0.03		
836.40	-32.14	-48.01	0.00	-0.93	14.94	0.03		
848.80	-32.46	-48.05	0.00	-0.76	14.83	0.03		

3.1.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP										
	Horizontal Polarization									
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-24.62	-51.88	0.00	1.96	29.22	0.84				
1880.00	-26.71	-52.99	0.00	2.00	28.28	0.67				
1909.80	-28.08	-54.28	0.00	1.98	28.18	0.66				
		Ve	ertical Polarizati	on						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)				
1850.20	-29.52	-52.13	0.00	1.96	24.57	0.29				
1880.00	-31.21	-53.17	0.00	2.00	23.96	0.25				
1909.80	-31.88	-54.13	0.00	1.98	24.23	0.26				

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3.2 Field Strength of Spurious Radiation Measurement

3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. 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.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

Test Procedures 3.2.3

- 1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15

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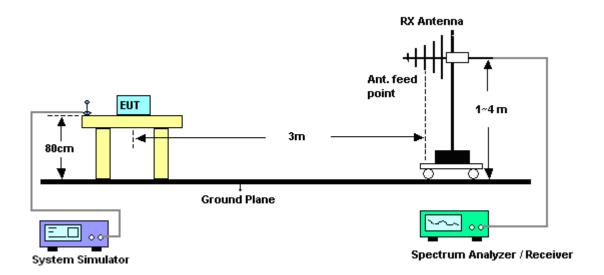
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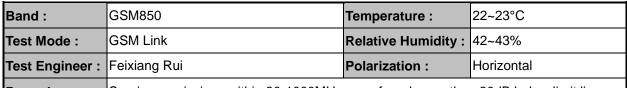
3.2.4 Test Setup



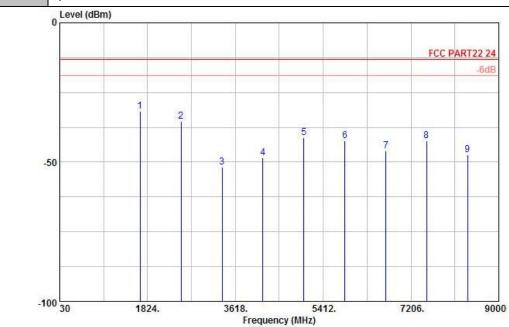
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3.2.5 Test Result of Field Strength of Spurious Radiated



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



Site : 03CH01-KS

Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

plane : H

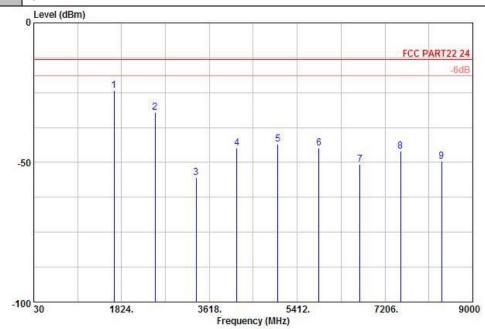
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1674	-31.79	-13	-18.79	-32.25	-32.44	0.57	3.37	Н	Pass
2510	-35.35	-13	-22.35	-37.58	-37.58	0.78	5.16	Н	Pass
3346	-51.74	-13	-38.74	-53.68	-55.38	0.87	6.66	Н	Pass
4182	-48.50	-13	-35.50	-51.51	-53.09	0.97	7.71	Н	Pass
5018	-41.31	-13	-28.31	-49.88	-46.98	1.09	8.91	Н	Pass
5854	-42.26	-13	-29.26	-52.04	-48.70	1.22	9.81	Н	Pass
6692	-45.95	-13	-32.95	-57.27	-53.17	1.25	10.62	Н	Pass
7528	-42.31	-13	-29.31	-55.08	-50.21	1.42	11.47	Н	Pass
8364	-47.34	-13	-34.34	-60.38	-55.92	1.5	12.23	Н	Pass

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Band :GSM850Temperature :22~23°CTest Mode :GSM LinkRelative Humidity :42~43%Test Engineer :Feixiang RuiPolarization :Vertical

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



Site : 03CH01-KS

Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

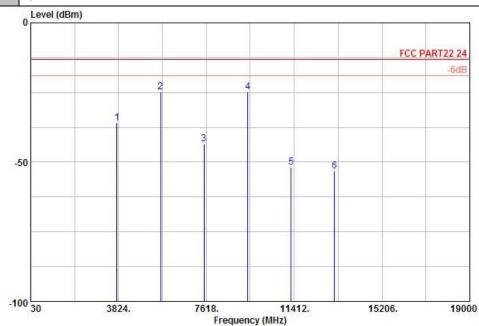
plane : H

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1674	-24.13	-13	-11.13	-30.54	-24.78	0.57	3.37	V	Pass
2510	-32.03	-13	-19.03	-38.99	-34.26	0.78	5.16	V	Pass
3346	-55.54	-13	-42.54	-57.52	-59.18	0.87	6.66	V	Pass
4182	-44.98	-13	-31.98	-50.56	-49.57	0.97	7.71	V	Pass
5018	-43.59	-13	-30.59	-50.37	-49.26	1.09	8.91	V	Pass
5854	-44.83	-13	-31.83	-52.86	-51.27	1.22	9.81	V	Pass
6692	-50.77	-13	-37.77	-61.48	-57.99	1.25	10.62	V	Pass
7528	-46.07	-13	-33.07	-59.21	-53.97	1.42	11.47	V	Pass
8366	-49.62	-13	-36.62	-61.98	-58.20	1.50	12.23	V	Pass

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Band :	GSM1900	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	42~43%
Test Engineer :	Feixiang Rui	Polarization :	Horizontal

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



Site : 03CH01-KS

Condition: FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

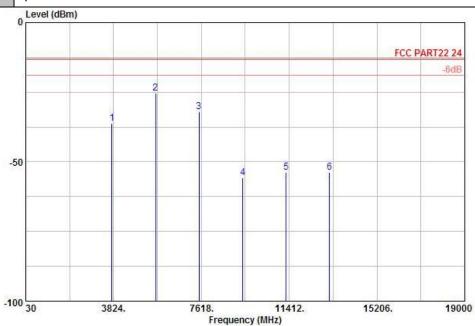
plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable		Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-36.06	-13	-23.06	-43.28	-42.44	0.78	7.16	Н	Pass
5640	-24.74	-13	-11.74	-38.94	-33.28	1.04	9.58	Н	Pass
7520	-43.55	-13	-30.55	-55.81	-53.66	1.35	11.46	Н	Pass
9400	-24.77	-13	-11.77	-43.71	-35.83	1.75	12.81	Н	Pass
11279	-51.90	-13	-38.90	-63.39	-62.99	2	13.09	Н	Pass
13160	-53.15	-13	-40.15	-64.45	-64.86	2.04	13.75	Н	Pass

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Band :	GSM1900	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	42~43%
Test Engineer :	Feixiang Rui	Polarization :	Vertical

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



Site : 03CH01-KS

Condition: FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-36.23	-13	-23.23	-46.25	-42.61	0.78	7.16	V	Pass
5640	-25.39	-13	-12.39	-39.83	-33.93	1.04	9.58	V	Pass
7520	-31.9	-13	-18.90	-49.02	-42.01	1.35	11.46	V	Pass
9398	-55.63	-13	-42.63	-56.85	-66.69	1.75	12.81	V	Pass
11280	-53.83	-13	-40.83	-65.07	-64.92	2	13.09	V	Pass
13157	-53.64	-13	-40.64	-64.83	-65.35	2.04	13.75	V	Pass

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receiver	R&S	ESCI	100724	9kHz – 2.75GHz	Mar. 09, 2010	Mar. 08, 2011	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060004	30MHz~2GHz	Feb. 02, 2010	Feb. 01, 2011	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Actice hore antenna	com-power	AHA-118	701023	1G-18GHz	Nov. 18, 2009	Nov. 17, 2010	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Jan. 18, 2010	Jan. 17, 2011	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	Jul. 29, 2010	Jul. 28, 2011	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	Full-Band	Jan. 08, 2009	Jan. 07, 2011	Radiation (03CH01-KS)

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5 Uncertainty of Evaluation

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			

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					

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP090824-01 as below.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix C. Product Equality Declaration

CT Asia

Tel: 0852-27931198; Fax: 0852-27931197

Date: November 2, 2010

Report No.: FG090824-01

Product Equality Declaration

We, CT Asia, declare on our sole responsibility for the product of Click as below:

The differences between Click and previous model Deejay are as below:

1. Add the camera

Except listings above, the others are all the same as previous version.

Should you have any questions or comments regarding this matter, please have my best attention.

Sincerely yours,

Contact Person: Chris Chan

Company: CT Asia Tel:0852-27931198 Fax:0852-27931197

E-Mail: chris@ctasiahk.com

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Appendix D. Original Report

Please refer to Sporton Report Number FG090824 as below.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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