

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT : mobile phone

BRAND NAME : BLU
MODEL NAME : Click lite

FCC ID : YHLBLUCLICKLITE

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

1930.2 ~ 1909.0 IVIF

MAX. ERP/EIRP POWER : GSM850 (GSM) : 0.33 W

GSM1900 (GSM): 0.67 W

EMISSION DESIGNATOR : 244KGXW

The product was received on Feb. 22, 2012 and completely tested on Feb. 29, 2012. 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:

Jones Tsai / Manager



Page Number

Report Version



: 1 of 38

: Rev. 01

Report Issued Date: Mar. 05, 2012

Report No.: FG222201

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
FG222201	Rev. 01	Initial issue of report	Mar. 05, 2012

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	3.2 §24.232(c) Equivalent Isotropic Radiated Power		< 2 Watts	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a)	Occupied Bandwidth	N/A	PASS	-
3.4	§2.1051		< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051		< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 22.51 dB at 1672 MHz
3.7	§2.1055 §22.355 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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1 General Description

1.1 Applicant

CT Asia

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

1.2 Manufacturer

WATER WORLD TECHNOLOGY CO., LTD

6 Floor. Block B Digital Building Garden City No 1079 Nanhai Road. Nanshan District Shenzhen. Guangdong

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1.3 Feature of Equipment Under Test

Produ	Product Feature & Specification					
Equipment	mobile phone					
Brand Name	BLU					
Model Name	Click lite					
FCC ID	YHLBLUCLICKLITE					
Ty Fraguency	GSM850 : 824 MHz ~ 849 MHz					
Tx Frequency	GSM1900 : 1850 MHz ~ 1910 MHz					
Rx Frequency	GSM850 : 869 MHz ~ 894 MHz					
RX Frequency	GSM1900 : 1930 MHz ~ 1990 MHz					
Maximum Output Power to Antenna	GSM850 : 32.32 dBm					
Maximum Output Fower to Antenna	GSM1900 : 29.19 dBm					
Maximum ERP/EIRP	GSM850 (GSM): 0.33 W (25.15 dBm)					
Maxilliulli ERF/EIRF	GSM1900 (GSM): 0.67 W (28.27 dBm)					
Antenna Type	Fixed Internal Antenna					
HW Version	A107-MB-V0.2					
SW Version	A107_CFZZ_BLU_V01					
Type of Modulation	GMSK					
Type of Emission	244KGXW					
EUT Stage	Production Unit					

Remark:

- This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).
- 2. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 3. There are two different types of EUT. They are single SIM card mobile and dual SIM card mobile. The others are the same including circuit design, PCB board, structure and all components. It is special to declare. After pre-scan two types of EUT, we found test result of the sample that dual SIM was the worst, so we choose dual SIM card mobile to perform all test. For the dual SIM card mobile, after pre-scan two SIM cards, we found test result with SIM1 card was the worst, so we choose SIM1 card to perform all test.

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1.4 Testing Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Toot Site No	Sporton Site No.		FCC Registration No.		
Test Site No.	TH01-KS 03CH01-KS		149928		

1.5 Applied 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 / TIA / EIA-603-C-2004

Remark:

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

1.6 Ancillary Equipment List

ĺ	ltem	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
	2.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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Test Configuration of Equipment Under Test 2

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:

- 30 MHz to 9000 MHz for GSM850.
- 2. 30 MHz to 19000 MHz for GSM1900.

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

Note:

The maximum power level is GSM mode for GMSK link, only this mode was used for all tests.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)									
Band	Band GSM850					GSM1900			
Channel	128 189 251			512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8			
GSM	32.31	<mark>32.32</mark>	32.28	28.79	28.91	<mark>29.19</mark>			

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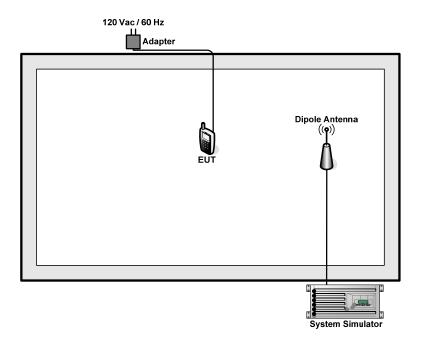
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2.2 Connection Diagram of Test System



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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

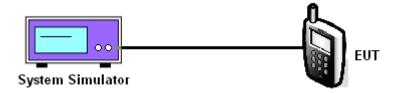
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different modulation.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band							
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)			
	128 (Low)	824.2	32.31	1.70			
GSM850 (GSM)	189 (Mid)	836.4	32.32	1.71			
	251 (High)	848.8	32.28	1.69			

PCS Band							
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)			
	512 (Low)	1850.2	28.79	0.76			
GSM1900 (GSM)	661 (Mid)	1880.0	28.91	0.78			
	810 (High)	1909.8	29.19	0.83			

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3.2 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.2.1 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 for 824 MHz ~ 849 MHz. The EIRP of mobile transmitters are limited to 2 Watts for 1850~1910 MHz.

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 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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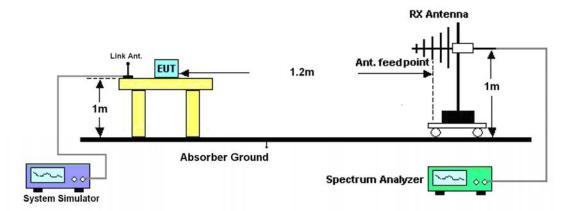
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3.2.4 Test Setup



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3.2.5 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	-22.06	-48.12	0.00	-1.08	24.98	0.31	
836.40	-22.20	-48.28	0.00	-0.93	25.15	0.33	
848.80	-22.57	-48.35	0.00	-0.76	25.02	0.32	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-36.09	-47.97	0.00	-1.08	10.80	0.01	
836.40	-36.40	-48.01	0.00	-0.93	10.68	0.01	
848.80	-37.20	-48.05	0.00	-0.76	10.09	0.01	

3.2.6 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	-26.19	-51.88	0.00	1.96	27.65	0.58			
1880.00	-27.04	-52.99	0.00	2.00	27.95	0.62			
1909.80	-28.69	-54.28	0.00	1.98	27.57	0.57			
		V	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)			
1850.20	-25.97	-52.13	0.00	1.96	28.12	0.65			
1880.00	-26.90	-53.17	0.00	2.00	28.27	0.67			
1909.80	-28.13	-54.13	0.00	1.98	27.98	0.63			

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3.3 Occupied Bandwidth Measurement

3.3.1 Description of Occupied Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

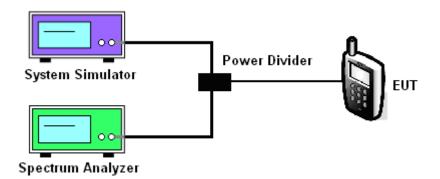
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers 2. were measured.

3.3.4 Test Setup



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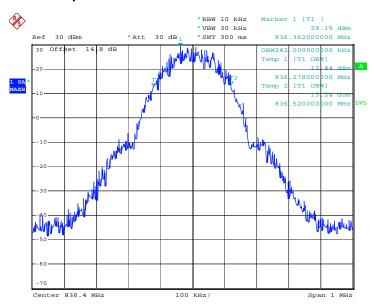


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3.3.5 Test Result (Plots) of Occupied Bandwidth

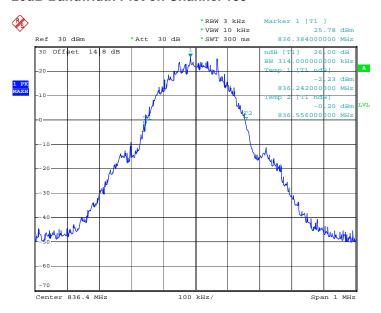
Band :	GSM 850	Power Stage :	High
Test Mode :	GSM Link		

99% Occupied Bandwidth Plot on Channel 189



Date: 29.FEB.2012 09:25:07

26dB Bandwidth Plot on Channel 189



Date: 29.FEB.2012 09:23:48

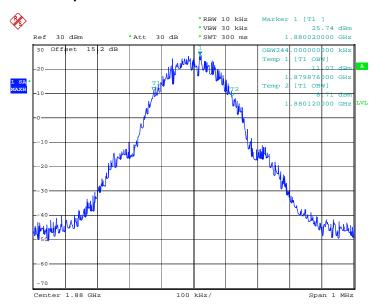
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Band: GSM 1900 Power Stage: High

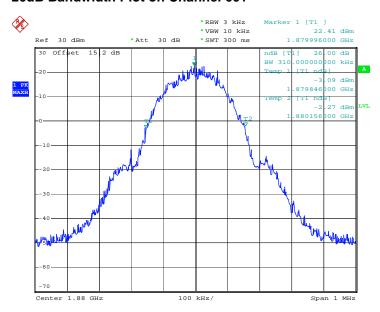
Test Mode: GSM Link

99% Occupied Bandwidth Plot on Channel 661



Date: 29.FEB.2012 09:38:02

26dB Bandwidth Plot on Channel 661



Date: 29.FEB.2012 09:36:42

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3.4 Band Edge Measurement

3.4.1 Description of 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.

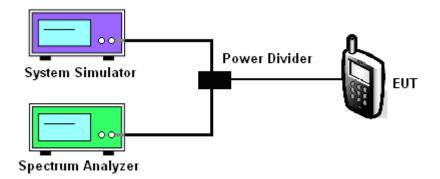
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW 3kHz for GSM / EDGE, Setting RBW 100kHz for WCDMA.

3.4.4 Test Setup



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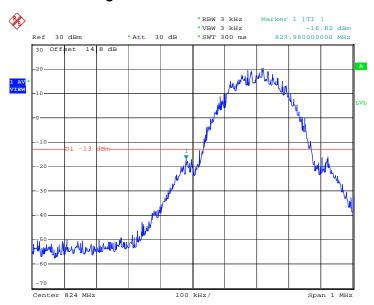
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3.4.5 Test Result (Plots) of Conducted Band Edge

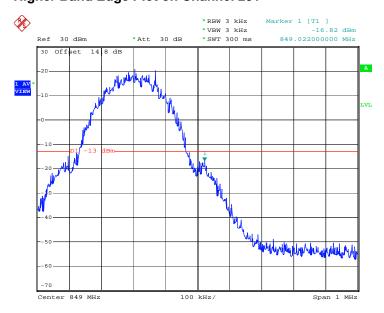
Band :	GSM850	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 128



Date: 29.FEB.2012 09:26:58

Higher Band Edge Plot on Channel 251



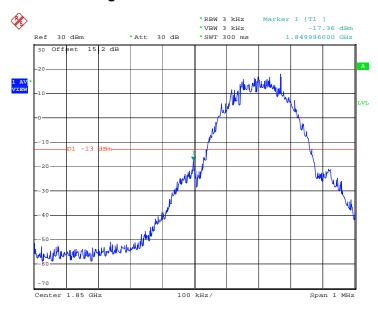
Date: 29.FEB.2012 09:27:24

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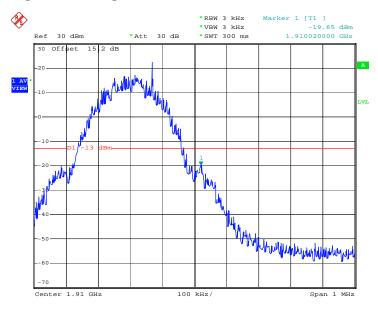
Band :	GSM1900	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 512



Date: 29.FEB.2012 09:39:54

Higher Band Edge Plot on Channel 810



Date: 29.FEB.2012 09:40:20

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3.5 Conducted Emission Measurement

3.5.1 Description of Conducted 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 10th harmonic.

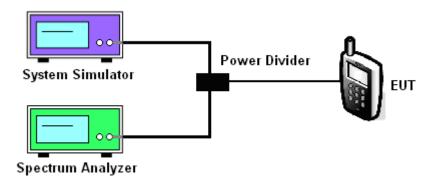
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

- 3. The EUT was connected to spectrum analyzer and base station via power divider.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- The conducted spurious emission for the whole frequency range was taken. 5.

3.5.4 Test Setup



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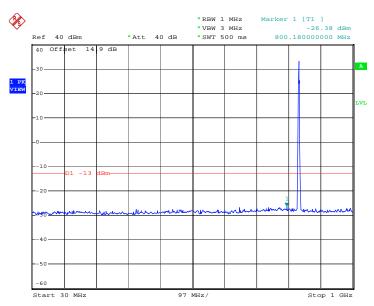
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3.5.5 Test Result (Plots) of Conducted Emission

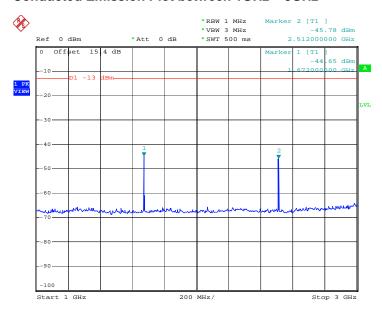
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link		

Conducted Emission Plot between 30MHz ~ 1GHz



Date: 29.FEB.2012 10:05:20

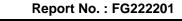
Conducted Emission Plot between 1GHz ~ 3GHz



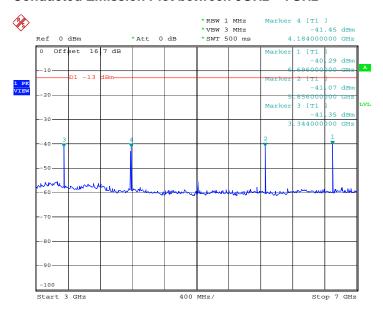
Date: 29.FEB.2012 10:06:26

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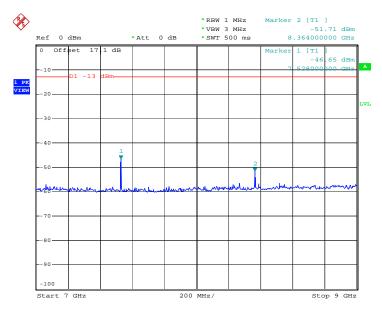






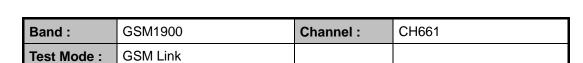
Date: 29.FEB.2012 10:07:22

Conducted Emission Plot between 7GHz ~ 9GHz

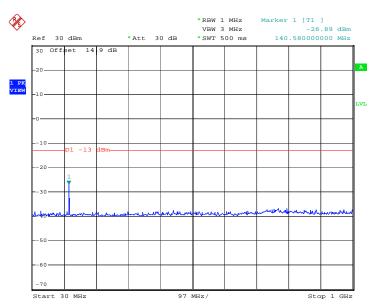


Date: 29.FEB.2012 10:08:06

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : 23 of 38
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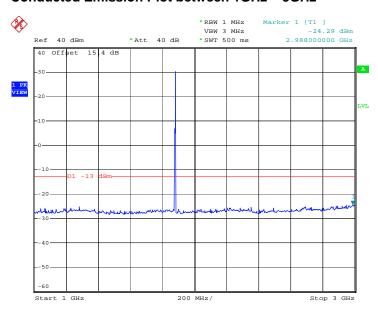


Conducted Emission Plot between 30MHz ~ 1GHz



Date: 29.FEB.2012 09:55:10

Conducted Emission Plot between 1GHz ~ 3GHz



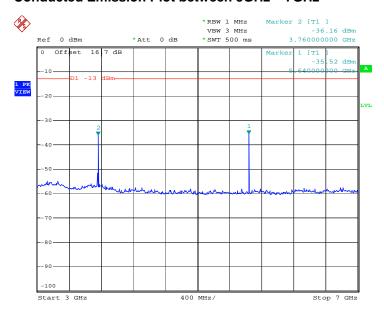
Date: 29.FEB.2012 09:56:03

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : 24 of 38
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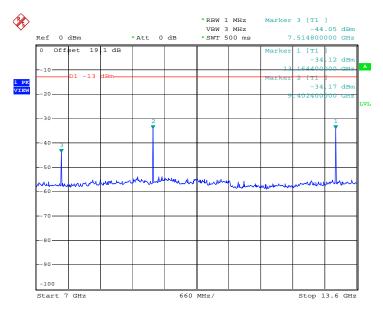
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Conducted Emission Plot between 3GHz ~ 7GHz



Date: 29.FEB.2012 09:57:33

Conducted Emission Plot between 7GHz ~ 13.6G



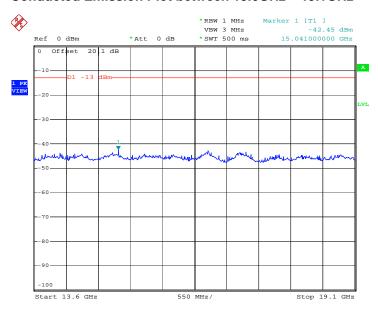
Date: 29.FEB.2012 09:58:22

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : 25 of 38
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Conducted Emission Plot between 13.6GHz ~ 19.1GHz



Date: 29.FEB.2012 09:59:01

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3.6 Field Strength of Spurious Radiation Measurement

3.6.1 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.

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

- 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. 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

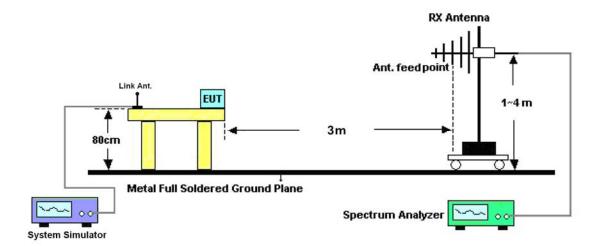
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : 27 of 38
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3.6.4 Test Setup

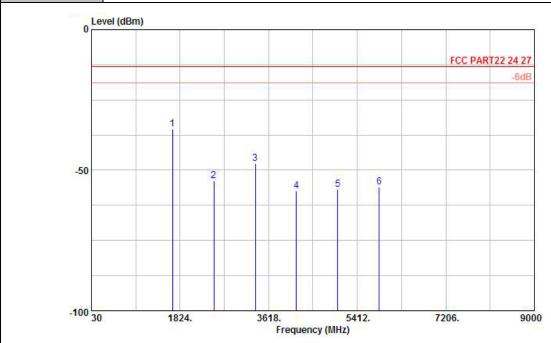


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3.6.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	20~21°C				
Test Mode :	GSM Link	Relative Humidity :	41~42%				
Test Engineer :	lack Li Polarization : Horizontal						
Romark :	Spurious emissions within 30-1000MHz were found more than 20dR below limit line						



Site : 03CH01-KS

Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

Project : (FG) 222201

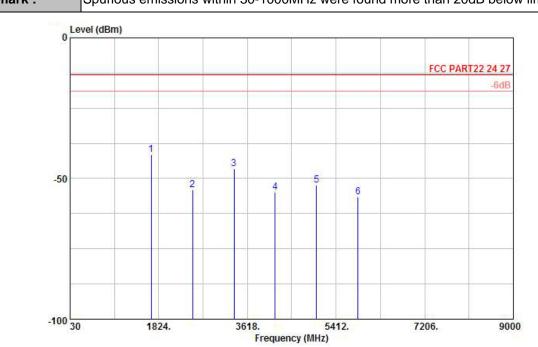
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-35.51	-13	-22.51	-35.86	-36.16	0.57	3.37	Н	Pass
2510	-53.77	-13	-40.77	-56.02	-56.00	0.78	5.16	Н	Pass
3345	-47.76	-13	-34.76	-50.23	-51.40	0.87	6.66	Н	Pass
4182	-57.29	-13	-44.29	-60.03	-61.88	0.97	7.71	Н	Pass
5018	-56.77	-13	-43.77	-62.97	-62.44	1.09	8.91	Н	Pass
5854	-56.03	-13	-43.03	-64.74	-62.47	1.22	9.81	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : 29 of 38
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Band :	GSM850	Temperature :	20~21°C				
Test Mode :	GSM Link	Relative Humidity :	41~42%				
Test Engineer :	Jack Li	Polarization :	Vertical				
Remark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						



Site : 03CH01-KS

Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 VERTICAL

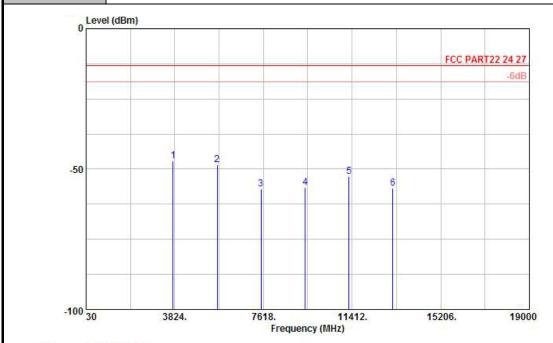
Project : (FG) 222201

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)	
1672	-41.52	-13	-28.52	-45.98	-42.17	0.57	3.37	V	Pass
2510	-54.05	-13	-41.05	-57.16	-56.28	0.78	5.16	V	Pass
3345	-46.63	-13	-33.63	-50.27	-50.27	0.87	6.66	V	Pass
4182	-54.88	-13	-41.88	-58.72	-59.47	0.97	7.71	V	Pass
5018	-52.28	-13	-39.28	-57.22	-57.95	1.09	8.91	V	Pass
5854	-56.54	-13	-43.54	-64.53	-62.98	1.22	9.81	V	Pass

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Band: GSM1900 20~21°C Temperature : **GSM** Link 41~42% Test Mode: Relative Humidity: Test Engineer: Jack Li Polarization : Horizontal Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



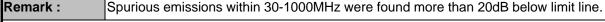
Site : 03CH01-KS

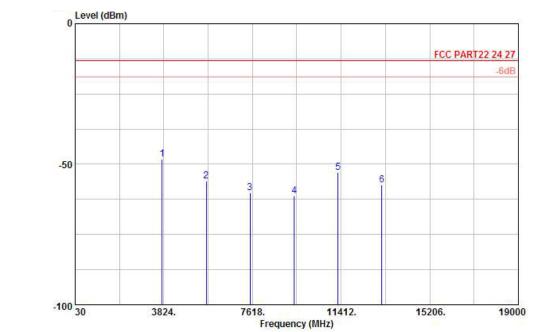
Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL Project : (FG) 222201

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	-47.03	-13	-34.03	-51.25	-53.41	0.78	7.16	Н	Pass
5640	-48.44	-13	-35.44	-56.11	-56.98	1.04	9.58	Н	Pass
7520	-57.13	-13	-44.13	-62.26	-67.24	1.35	11.46	Н	Pass
9400	-56.49	-13	-43.49	-59.75	-67.55	1.75	12.81	Н	Pass
11280	-52.57	-13	-39.57	-64.06	-63.66	2	13.09	Н	Pass
13160	-56.93	-13	-43.93	-68.23	-68.64	2.04	13.75	Н	Pass

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Band :	GSM1900	Temperature :	20~21°C				
Test Mode :	GSM Link	Relative Humidity :	41~42%				
Test Engineer :	Jack Li	Polarization :	Vertical				
D	On the contract of the CO 4000MHz and for all and the CO ID tale. Partition						





Site : 03CH01-KS Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 VERTICAL

Project : (FG) 222201

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	-48.20	-13	-35.20	-53.36	-54.58	0.78	7.16	V	Pass
5640	-55.91	-13	-42.91	-59.13	-64.45	1.04	9.58	V	Pass
7520	-60.24	-13	-47.24	-64.73	-70.35	1.35	11.46	V	Pass
9400	-61.21	-13	-48.21	-62.43	-72.27	1.75	12.81	V	Pass
11280	-52.99	-13	-39.99	-64.23	-64.08	2	13.09	V	Pass
13160	-57.26	-13	-44.26	-68.45	-68.97	2.04	13.75	V	Pass

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3.7 Frequency Stability Measurement

3.7.1 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.

3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

3.7.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.

2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one

minute.

3. 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.

4. If the EUT cannot be turned on at -30°C, the testing lowest temperature will be raised in 10°C

step until the EUT can be turned on.

3.7.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base

station.

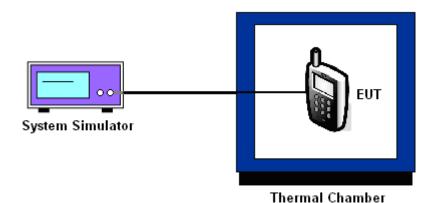
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value

measured at the input to the EUT.

3. The variation in frequency was measured for the worst case.



3.7.5 Test Setup



3.7.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm) :	2.5		

	GS			
Temperature (°C)	Freq. Dev. Deviation (Hz) (ppm)		Result	
-30	N/A	N/A		
-20	N/A	N/A		
-10	16	0.02		
0	12	0.01		
10	8	0.01		
20	-5	-0.01	PASS	
30	-17	-0.02		
40	-15	-0.02		
50	10	0.01		
55	11	0.01		

Note: The manufacturer declared that the EUT could work properly between temperatures -10°C~55°C.

SPORTON INTERNATIONAL (KUNSHAN) INC.

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FCC RF Test Report

Band :	GSM 1900	Channel:	661
Limit (ppm) :	2.5		

	GS			
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	N/A	N/A		
-20	N/A	N/A		
-10	27	0.01		
0	40	0.02		
10	26	0.01		
20	23	0.01	PASS	
30	-18	-0.01		
40	-21	-0.01		
50	-41	-0.02		
55	-26	-0.01		

Note: The manufacturer declared that the EUT could work properly between temperatures $-10^{\circ}\text{C}\sim55^{\circ}\text{C}$.

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3.7.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189 GSM 1900 CH661	GSM	3.7	11	0.01		DAGG
		BEP	24	0.03	0.5	
		4.2	-13	-0.02		
	GSM	3.7	-26	-0.01	2.5	PASS
		BEP	22	0.01		
		4.2	-23	-0.01		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 V.

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List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Feb. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Feb. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	TOPWARD	GPS-3030D	E1884515	N/A	Aug. 23, 2011	Feb. 29, 2012	Aug. 22, 2012	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-96050	N/A	Dec. 30, 2011	Feb. 29, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Feb. 26, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Feb. 26, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Feb. 26, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/00	9 kHz~30 MHz	Jul. 28, 2011	Feb. 26, 2012	Jul. 27, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Feb. 26, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Feb. 26, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A0237 0	1GHz~26.5GHz	Dec. 30, 2011	Feb. 26, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701023	1GHz~18GHz	Nov. 07, 2011	Feb. 26, 2012	Nov. 06, 2012	Radiation (03CH01-KS)
SHE-EHF Horn	Schwarzbeck	BBHA9170	BBHA1702 49	15GHz~40GHz	Oct. 11, 2011	Feb. 26, 2012	Oct. 10, 2012	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Feb. 26, 2012	Dec. 29, 2012	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)

	Uncertainty of X _i				
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 EP222201as below.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUCLICKLITE Page Number : A1 of A1
Report Issued Date : Mar. 05, 2012
Report Version : Rev. 01