

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT : mobile phone

BRAND NAME : BLU
MODEL NAME : Magic

FCC ID : YHLBLUMAGIC

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

WCDMA Band V: 826.4 ~ 846.6 MHz /

871.4 ~ 891.6 MHz

WCDMA Band II: 1852.4 ~ 1907.6 MHz/

1932.4 ~ 1987.6 MHz

Report No.: FG130433

MAX. ERP/EIRP POWER : GSM850 (GSM) : 0.73 W

GSM850 (EDGE 8): 0.20 W GSM1900 (GSM): 1.92 W GSM1900 (EDGE 8): 0.76 W

WCDMA Band V (RMC 12.2Kbps): 0.08 W WCDMA Band II (RMC 12.2Kbps): 0.28 W

EMISSION DESIGNATOR : GMSK : 246KGXW

8PSK: 246KG7W QPSK: 4M18F9W

The product was received on Mar. 04, 2011 and completely tested on Mar. 06, 2011. 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:

Roy Wu / Manager

IC-MRA
Testing

TAF

Testing Laboratory
1190

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG130433	Rev. 01	Initial issue of report	Apr. 20, 2011

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	N/A	Conducted Output Power	N/A	PASS	-
3.2	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.2	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.3	§2.1049 §22.917(a) §24.238(a)	a) N/A Occupied Bandwidth		N/A	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a)	\$22.917(a) RSS-132 (4.5.1) Band Edge RSS-133 (6.5.1) Measuremer		< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1051 RSS-132 (4.5.1)		Conducted Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§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 14.90 dB at 1672 MHz
3.7	§2.1055 §22.355 §24.235	RSS-132(4.3) RSS-133(6.3)	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

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1 General Description

1.1 Applicant

CT Asia

RMA 2011, 20/F., GOLDEN CENTRAL TOWER, NO. 3037# JINTIAN ROAD, FUTIAN DISTRICT

1.2 Manufacturer

CT Asia

RMA 2011, 20/F., GOLDEN CENTRAL TOWER, NO. 3037# JINTIAN ROAD, FUTIAN DISTRICT

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1.3 Feature of Equipment Under Test

Product Feature & Specification					
Equipment	mobile phone				
Brand Name	BLU				
Model Name	Magic				
FCC ID	YHLBLUMAGIC				
	GSM850 : 824 MHz ~ 849 MHz				
T., F.,	GSM1900 : 1850 MHz ~ 1910 MHz				
Tx Frequency	WCDMA Band V : 824 MHz ~ 849 MHz				
	WCDMA Band II : 1850 MHz ~ 1910 MHz				
	GSM850 : 869 MHz ~ 894 MHz				
Dv Francis	GSM1900 : 1930 MHz ~ 1990 MHz				
Rx Frequency	WCDMA Band V : 869 MHz ~ 894 MHz				
	WCDMA Band II: 1930 MHz ~ 1990 MHz				
	GSM850 : 32.50 dBm				
Maximum Output Power to Antenna	GSM1900 : 30.44 dBm				
Maximum Output Power to Antenna	WCDMA Band V : 22.95 dBm				
	WCDMA Band II : 23.24 dBm				
	GSM850 (GSM): 0.73 W (28.63 dBm)				
	GSM850 (EDGE 8): 0.20 W (23.04 dBm)				
Maximum ERP/EIRP	GSM1900 (GSM): 1.92 W (32.83 dBm)				
	GSM1900 (EDGE 8): 0.76 W (28.81 dBm)				
	WCDMA Band V (RMC 12.2Kbps) : 0.08 W (19.26 dBm)				
	WCDMA Band II (RMC 12.2Kbps) : 0.28 W (24.47 dBm)				
Antenna Type	Fixed Internal Antenna				
HW Version	HW03				
SW Version	SW07				
	GSM / GPRS : GMSK				
Type of Modulation	EDGE: 8PSK				
	WCDMA: QPSK				
	HSDPA: QPSK / 16QAM				
	GMSK: 246KGXW				
Type of Emission	8PSK : 246KG7W				
	QPSK : 4M18F9W				
EUT Stage	Identical Prototype				

Remark:

- 1. For other wireless features of this EUT, the test report will be issued separately.
- 2. This test report recorded only product characteristics and test results of PCS Licensed Transmitter Held to Ear (PCE).
- **3.** 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.			
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.			
Test Site Location	TEL: +86-0512-5790-0158			
	FAX: +86-0512-5790-0958			
Test Site No.	Sporton	Site No.		
rest Site No.	TH01-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:

- Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- 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 (DoC), 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 and WCDMA Band V.
- 2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes						
Band	Radiated TCs	Conducted TCs				
GSM 850	■ GSM Link + TC	■ GSM Link + TC				
	■ EDGE 8 Link + TC	■ EDGE 8 Link + TC				
CCM 4000	■ GSM Link + TC	■ GSM Link + TC				
GSM 1900	■ EDGE 8 Link + TC	■ EDGE 8 Link + TC				
WCDMA Band V	■ RMC 12.2Kbps Link + TC	■ RMC 12.2Kbps Link + TC				
WCDMA Band II	■ RMC 12.2Kbps Link + TC	■ RMC 12.2Kbps Link + TC				

Note:

- The maximum power levels are GSM mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.
- 2. TC stands for Test Configuration are consists of Earphone, and Adapter.
- **3.** Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

The conducted power tables are as follows:

Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	<mark>32.50</mark>	32.45	32.43	29.74	30.07	<mark>30.44</mark>	
GPRS 8	32.49	32.44	32.43	29.73	30.05	30.43	
GPRS 10	29.95	29.88	29.85	29.18	29.45	29.77	
GPRS 12	25.93	25.85	25.81	25.14	25.33	25.56	
EGPRS 8	27.02	26.96	26.93	26.25	26.46	<mark>26.72</mark>	
EGPRS 10	27.01	26.95	26.92	26.23	26.44	26.71	
EGPRS 12	23.00	22.94	22.90	24.20	24.40	24.63	

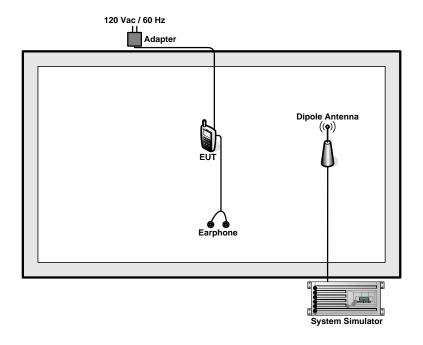
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Conducted Power (*Unit: dBm)							
Band	W	CDMA Band	٧	W	CDMA Band	II	
Channel	4132	4182	4233	9262	9400	9538	
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6	
RMC 12.2K	22.78	22.93	<mark>22.95</mark>	22.85	23.20	<mark>23.24</mark>	
HSDPA Subtest-1	20.68	20.95	20.80	21.32	21.75	21.52	
HSDPA Subtest-2	20.74	20.89	20.83	21.30	21.76	21.38	
HSDPA Subtest-3	20.80	20.93	20.86	21.29	21.65	21.37	
HSDPA Subtest-4	20.77	20.88	20.85	21.30	21.68	21.43	

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.

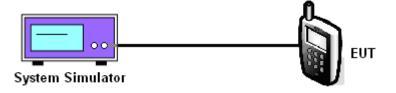
3.1.2 Measuring Instruments

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	32.50	1.78			
GSM850 (GSM)	189 (Mid)	836.4	32.45	1.76			
	251 (High)	848.8	32.43	1.75			
	128 (Low)	824.2	27.02	0.50			
GSM850 (EDGE 8)	189 (Mid)	836.4	26.96	0.50			
	251 (High)	848.8	26.93	0.49			
	4132 (Low)	826.4	22.78	0.19			
WCDMA Band V (RMC 12.2Kbps)	4182 (Mid)	836.4	22.93	0.20			
	4233 (High)	846.6	22.95	0.20			

PCS Band							
Modes	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)			
	512 (Low)	1850.2	29.74	0.94			
GSM1900 (GSM)	661 (Mid)	1880.0	30.07	1.02			
	810 (High)	1909.8	30.44	1.11			
	512 (Low)	1850.2	26.25	0.42			
GSM1900 (EDGE 8)	661 (Mid)	1880.0	26.46	0.44			
	810 (High)	1909.8	26.72	0.47			
	9262 (Low)	1852.4	22.85	0.19			
WCDMA Band II (RMC 12.2Kbps)	9400 (Mid)	1880.0	23.20	0.21			
	9538 (High)	1907.6	23.24	0.21			

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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 and the EIRP of mobile transmitters are limited to 2 Watts.

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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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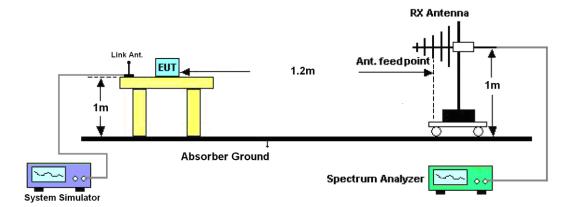
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3.2.4 Test Setup



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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	-19.30	-48.12	0.00	-1.08	27.74	0.59	
836.40	-18.72	-48.28	0.00	-0.93	28.63	0.73	
848.80	-19.34	-48.35	0.00	-0.76	28.25	0.67	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-33.69	-47.97	0.00	-1.08	13.20	0.02	
836.40	-32.72	-48.01	0.00	-0.93	14.36	0.03	
848.80	-32.53	-48.05	0.00	-0.76	14.76	0.03	

	GSM850 (EDGE 8) Radiated Power ERP					
		Hoi	rizontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.20	-24.95	-48.12	0.00	-1.08	22.09	0.16
836.40	-24.31	-48.28	0.00	-0.93	23.04	0.20
848.80	-24.82	-48.35	0.00	-0.76	22.77	0.19
		Ve	ertical Polarization	on		
Frequency	Frequency Rt Rs Ps Gs ERP ERP					ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.20	-39.40	-47.97	0.00	-1.08	7.49	0.01
836.40	-38.56	-48.01	0.00	-0.93	8.52	0.01
848.80	-38.47	-48.05	0.00	-0.76	8.82	0.01

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP					
		Hoi	rizontal Polariza	tion		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-29.90	-48.12	0.00	-1.08	17.14	0.05
836.40	-30.04	-48.28	0.00	-0.93	17.31	0.05
846.60	-28.33	-48.35	0.00	-0.76	19.26	0.08
		Ve	ertical Polarization	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
826.40	-43.97	-47.97	0.00	-1.08	2.92	0.00
836.40	-44.06	-48.01	0.00	-0.93	3.02	0.00
846.60	-41.69	-48.05	0.00	-0.76	5.60	0.00

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3.2.6 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP						
	Horizontal Polarization					
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-22.50	-51.88	0.00	1.96	31.34	1.36
1880.00	-22.83	-52.99	0.00	2.00	32.16	1.64
1909.80	-23.92	-54.28	0.00	1.98	32.34	1.71
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-22.59	-52.13	0.00	1.96	31.50	1.41
1880.00	-23.07	-53.17	0.00	2.00	32.10	1.62
1909.80	-23.28	-54.13	0.00	1.98	32.83	1.92

	GSM1900 (EDGE 8) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-26.84	-51.88	0.00	1.96	27.00	0.50
1880.00	-27.02	-52.99	0.00	2.00	27.97	0.63
1909.80	-27.82	-54.28	0.00	1.98	28.44	0.70
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-27.31	-52.13	0.00	1.96	26.78	0.48
1880.00	-27.16	-53.17	0.00	2.00	28.01	0.63
1909.80	-27.30	-54.13	0.00	1.98	28.81	0.76

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	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1852.40	-30.14	-51.88	0.00	1.96	23.70	0.23
1880.00	-30.98	-52.99	0.00	2.00	24.01	0.25
1907.60	-32.16	-54.28	0.00	1.98	24.10	0.26
		Ve	ertical Polarizati	on		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1852.40	-30.54	-52.13	0.00	1.96	23.55	0.23
1880.00	-31.19	-53.17	0.00	2.00	23.98	0.25
1907.60	-31.64	-54.13	0.00	1.98	24.47	0.28

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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.

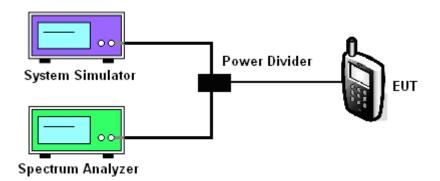
3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

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

3.3.4 Test Setup



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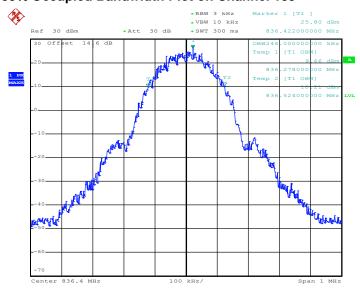


Report No.: FG130433

3.3.5 Test Result (Plots) of Occupied Bandwidth

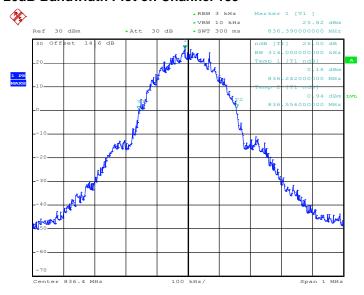
Band :	GSM 850	Power Stage :	High
Test Mode :	GSM Link		

99% Occupied Bandwidth Plot on Channel 189



TH-01 Date: 8.MAR.2011 18:30:41

26dB Bandwidth Plot on Channel 189



TH-01

Date: 8.MAR.2011 18:29:22

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

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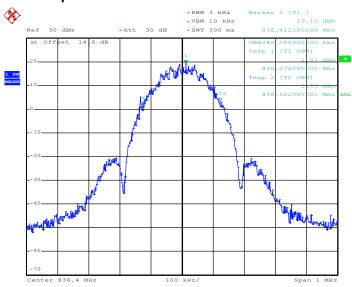
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Band: GSM 850 Power Stage: High

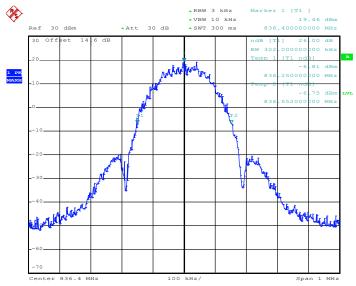
Test Mode: EDGE 8 Link

99% Occupied Bandwidth Plot on Channel 189



TH-01
Date: 8.MAR.2011 19:36:16

26dB Bandwidth Plot on Channel 189



TH-01

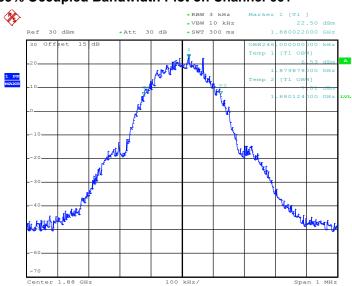
Date: 8.MAR.2011 19:34:57

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 20 of 84
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Band: GSM 1900 Power Stage: High
Test Mode: GSM Link

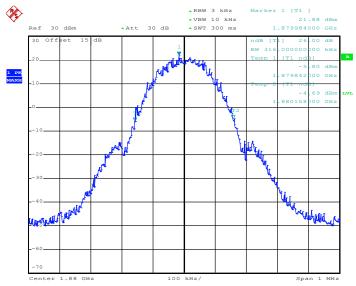
99% Occupied Bandwidth Plot on Channel 661



TH-01

Date: 8.MAR.2011 19:14:25

26dB Bandwidth Plot on Channel 661



TH-01

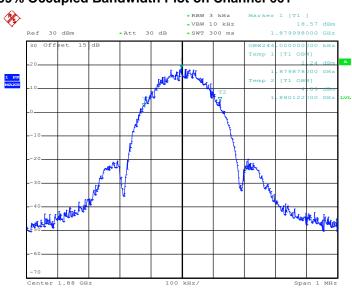
Date: 8.MAR.2011 19:13:06



Band: GSM 1900 Power Stage: High

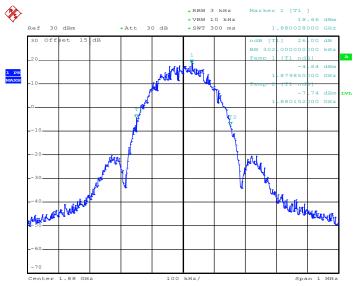
Test Mode: EDGE 8 Link

99% Occupied Bandwidth Plot on Channel 661



TH-01
Date: 8.MAR.2011 19:46:53

26dB Bandwidth Plot on Channel 661



TH-01

Date: 8.MAR.2011 19:45:34

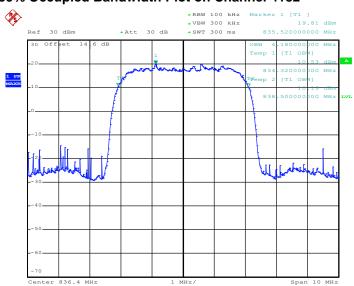
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 22 of 84
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Band: WCDMA Band V Power Stage: High

Test Mode: RMC 12.2Kbps Link

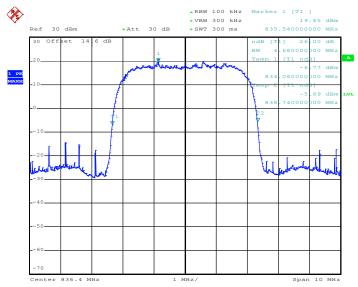
99% Occupied Bandwidth Plot on Channel 4182



TH-01

Date: 8.MAR.2011 21:32:28

26dB Bandwidth Plot on Channel 4182



TH-01

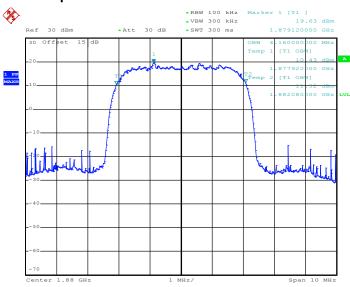
Date: 8.MAR.2011 21:31:08



Band: WCDMA Band II Power Stage: High

Test Mode: RMC 12.2Kbps Link

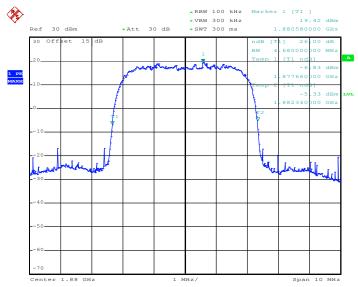
99% Occupied Bandwidth Plot on Channel 9400



TH-01

Date: 8.MAR.2011 21:21:46

26dB Bandwidth Plot on Channel 9400



TH-01

Date: 8.MAR.2011 21:20:27



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.

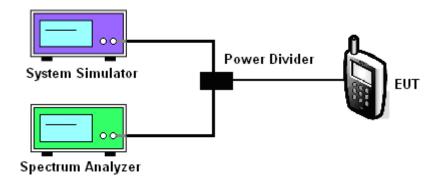
3.4.2 Measuring Instruments

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 as roughly BW/100.

3.4.4 Test Setup



SPORTON INTERNATIONAL (KUNSHAN) INC.

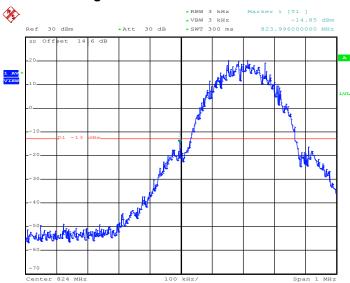
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 25 of 84
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3.4.5 Test Result (Plots) of Conducted Band Edge

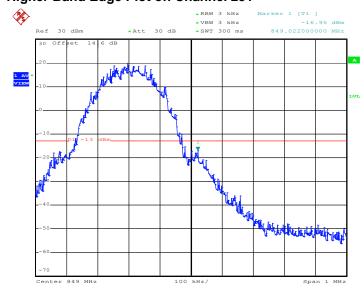
Band :	GSM850	Power Stage :	High
Test Mode :	GSM Link		

Lower Band Edge Plot on Channel 128



TH-01
Date: 8.MAR.2011 18:32:34

Higher Band Edge Plot on Channel 251



TH-01
Date: 8.MAR.2011 18:33:00

SPORTON INTERNATIONAL (KUNSHAN) INC.

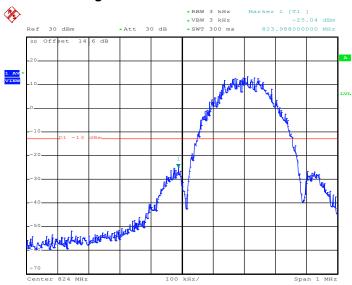
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 26 of 84
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Band: GSM850 Power Stage: High

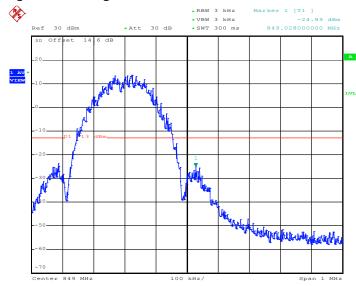
Test Mode: EDGE 8 Link

Lower Band Edge Plot on Channel 128



TH-01
Date: 8.MAR.2011 19:38:09

Higher Band Edge Plot on Channel 251



TH-01

Date: 8.MAR.2011 19:38:35

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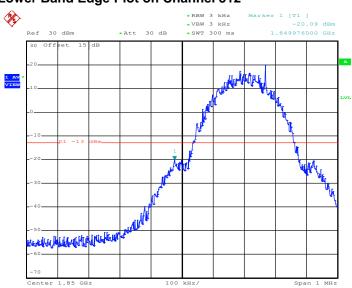


Band: GSM1900 Power Stage: High

Test Mode: GSM Link

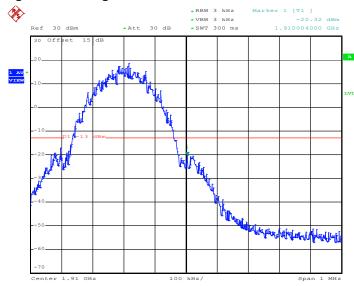
Report No. : FG130433

Lower Band Edge Plot on Channel 512



TH-01
Date: 8.MAR.2011 19:16:18

Higher Band Edge Plot on Channel 810



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TH-01

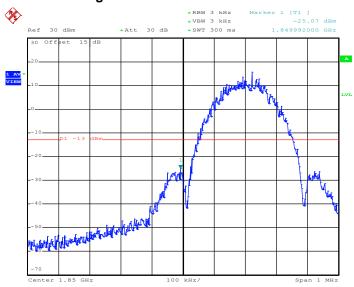
Date: 8.MAR.2011 19:16:45



 Band :
 GSM1900
 Power Stage :
 High

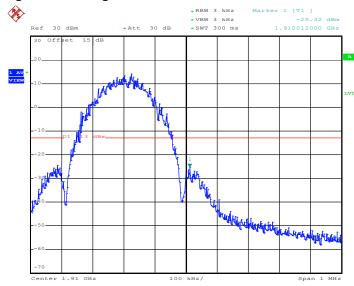
 Test Mode :
 EDGE 8 Link
 High

Lower Band Edge Plot on Channel 512



TH-01
Date: 8.MAR.2011 19:48:45

Higher Band Edge Plot on Channel 810



TH-01

Date: 8.MAR.2011 19:49:12

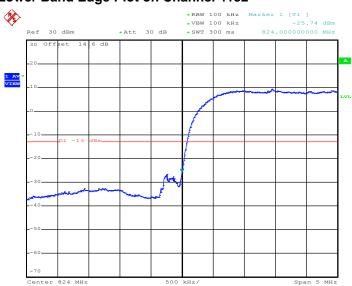
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 29 of 84
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Band: WCDMA Band V Power Stage: High

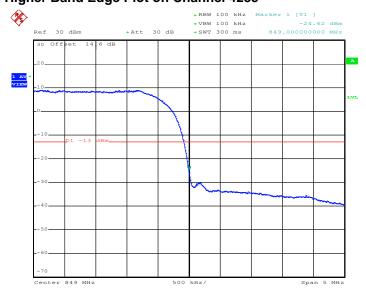
Test Mode: RMC 12.2Kbps Link

Lower Band Edge Plot on Channel 4132



TH-01
Date: 8.MAR.2011 21:34:22

Higher Band Edge Plot on Channel 4233



TH-01

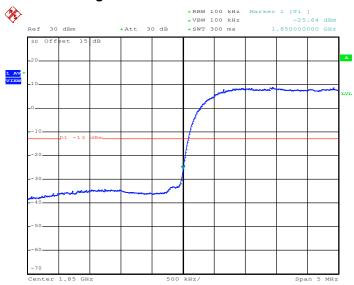
Date: 8.MAR.2011 21:34:49



Band: WCDMA Band II Power Stage: High

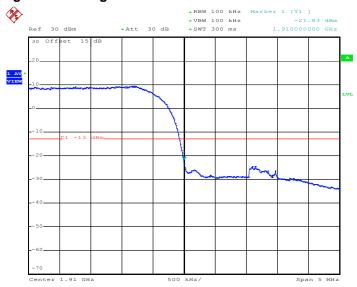
Test Mode: RMC 12.2Kbps Link

Lower Band Edge Plot on Channel 9262



TH-01
Date: 8.MAR.2011 21:23:41

Higher Band Edge Plot on Channel 9538



TH-01

Date: 8.MAR.2011 21:24:08



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.

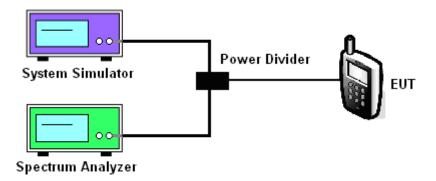
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. 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. 3.

3.5.4 Test Setup



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

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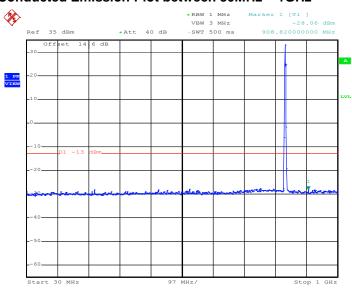
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3.5.5 Test Result (Plots) of Conducted Emission

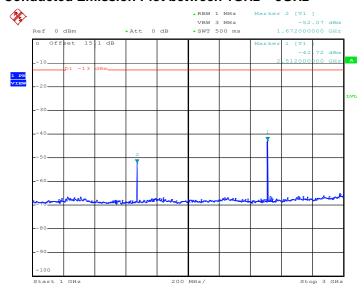
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link		

Conducted Emission Plot between 30MHz ~ 1GHz



TH-01
Date: 9.MAR.2011 09:25:49

Conducted Emission Plot between 1GHz ~ 3GHz



TH-01
Date: 9.MAR.2011 11:27:50

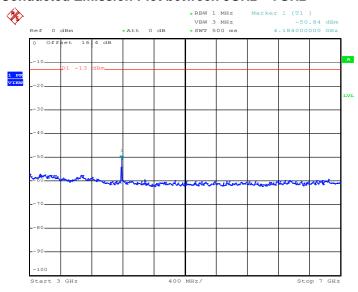
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 33 of 84
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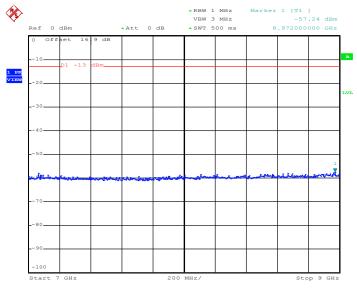
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 11:29:27

Conducted Emission Plot between 7GHz ~ 9GHz



TH-01

Date: 9.MAR.2011 11:30:52

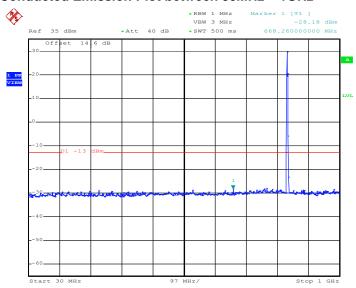
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 34 of 84
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 Band :
 GSM850
 Channel :
 CH189

 Test Mode :
 EDGE 8 Link

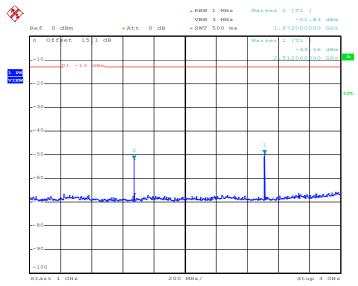
Conducted Emission Plot between 30MHz ~ 1GHz



TH-01

Date: 9.MAR.2011 11:44:35

Conducted Emission Plot between 1GHz ~ 3GHz



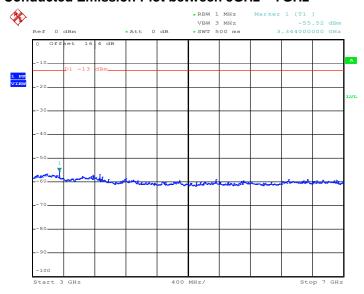
TH-01

Date: 9.MAR.2011 11:40:14



Report No.: FG130433

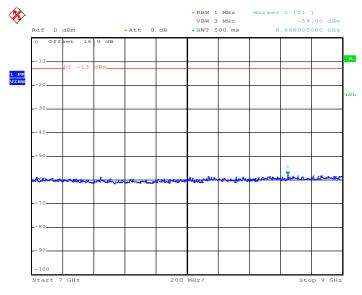
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 11:39:08

Conducted Emission Plot between 7GHz ~ 9GHz



TH-01

Date: 9.MAR.2011 11:37:15

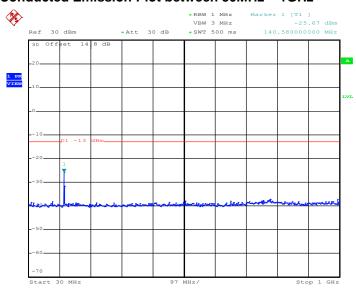
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 36 of 84
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 Band :
 GSM1900
 Channel :
 CH661

 Test Mode :
 GSM Link

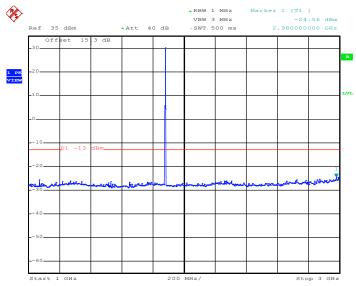
Conducted Emission Plot between 30MHz ~ 1GHz



TH-01

Date: 9.MAR.2011 09:30:34

Conducted Emission Plot between 1GHz ~ 3GHz



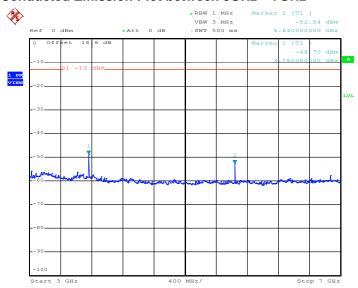
TH-01

Date: 9.MAR.2011 09:32:40



Report No.: FG130433

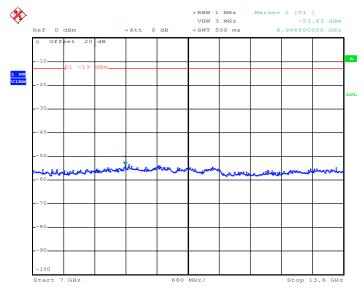
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 09:34:51

Conducted Emission Plot between 7GHz ~ 13.6GHz



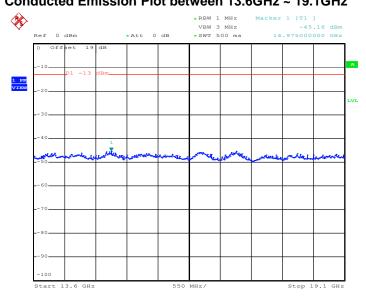
TH-01

Date: 9.MAR.2011 09:36:26

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 38 of 84
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Conducted Emission Plot between 13.6GHz ~ 19.1GHz



TH-01

Date: 9.MAR.2011 09:38:00

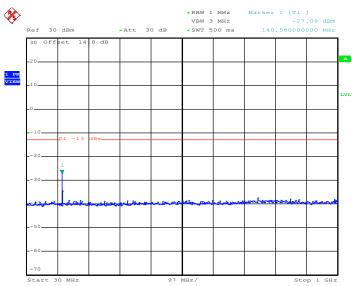
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 39 of 84
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Band: GSM1900 Channel: CH661

Test Mode: EDGE 8 Link

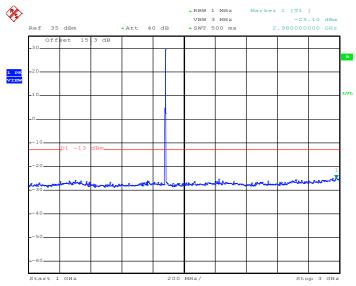
Conducted Emission Plot between 30MHz ~ 1GHz



TH-01

Date: 9.MAR.2011 09:52:52

Conducted Emission Plot between 1GHz ~ 3GHz



TH-01

Date: 9.MAR.2011 09:51:38

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 40 of 84
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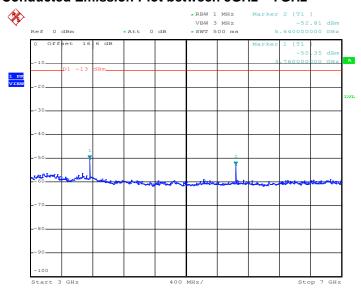
Report No. : FG130433

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Report No. : FG130433

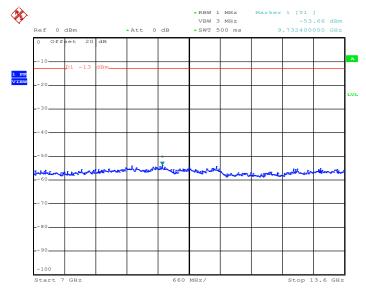
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 09:47:24

Conducted Emission Plot between 7GHz ~ 13.6GHz

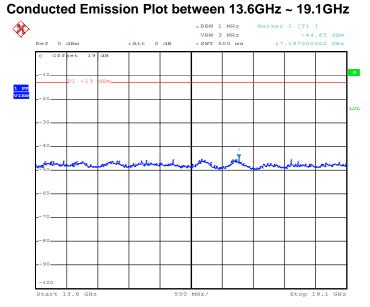


TH-01

Date: 9.MAR.2011 09:46:08

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 41 of 84
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TH-01

Date: 9.MAR.2011 09:44:47

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

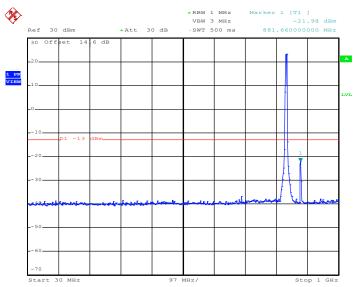
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Band: WCDMA Band V Channel: CH4182

Test Mode: RMC 12.2Kbps Link

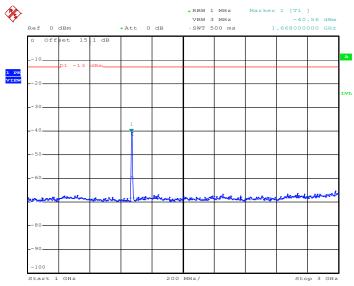
Conducted Emission Plot between 30MHz ~ 1GHz



TH-01

Date: 9.MAR.2011 10:25:07

Conducted Emission Plot between 1GHz ~ 3GHz



TH-01

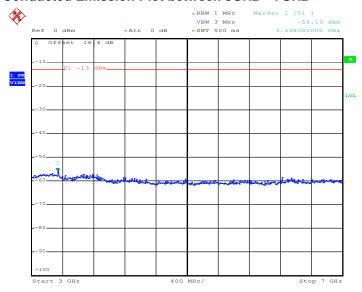
Date: 9.MAR.2011 10:28:30

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 43 of 84
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Report No.: FG130433

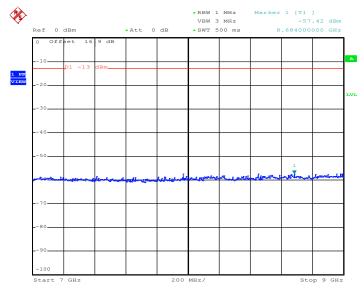
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 10:30:28

Conducted Emission Plot between 7GHz ~ 9GHz



Date: 15.MAR.2011 19:27:38

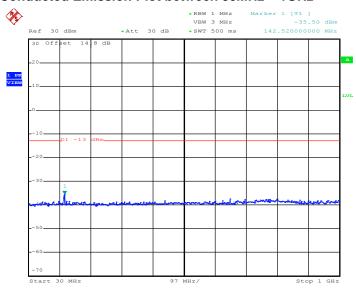
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number Report Issued Date: Apr. 20, 2011 : Rev. 01 Report Version



Band: WCDMA Band II Channel: CH9400

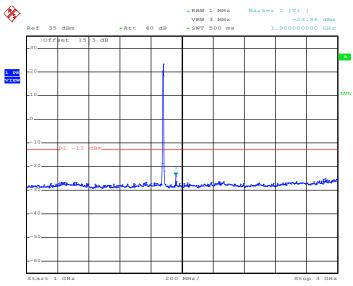
Test Mode: RMC 12.2Kbps Link

Conducted Emission Plot between 30MHz ~ 1GHz



TH-01
Date: 9.MAR.2011 10:02:37

Conducted Emission Plot between 1GHz ~ 3GHz



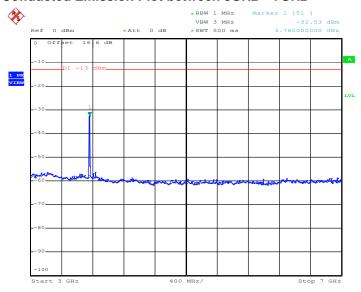
TH-01

Date: 9.MAR.2011 10:04:31



Report No. : FG130433

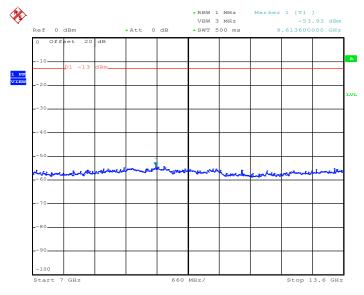
Conducted Emission Plot between 3GHz ~ 7GHz



TH-01

Date: 9.MAR.2011 10:06:53

Conducted Emission Plot between 7GHz ~ 13.6GHz



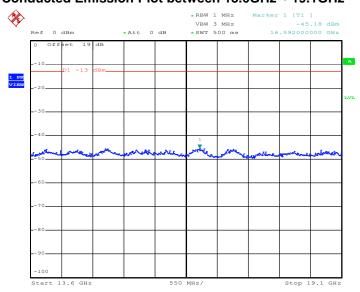
TH-01

Date: 9.MAR.2011 10:08:17

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 46 of 84
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Conducted Emission Plot between 13.6GHz ~ 19.1GHz



TH-01

Date: 9.MAR.2011 10:09:51

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC Page Number : 47 of 84
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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.

Report No.: FG130433

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. 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.

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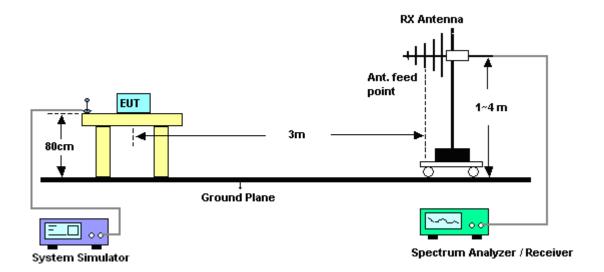
Report Issued Date: Apr. 20, 2011

- 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



Report No.: FG130433

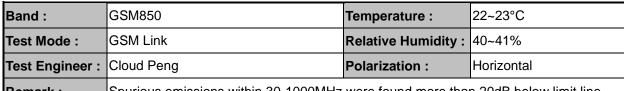
3.6.4 Test Setup



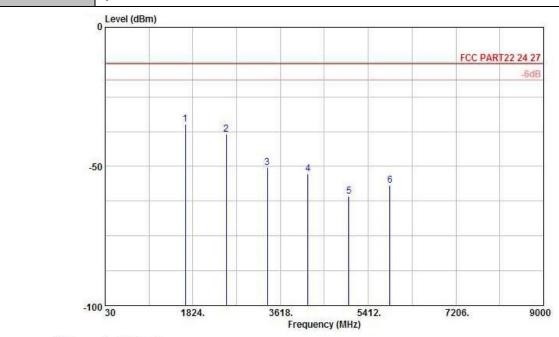
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3.6.5 Test Result of Field Strength of Spurious Radiated



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



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

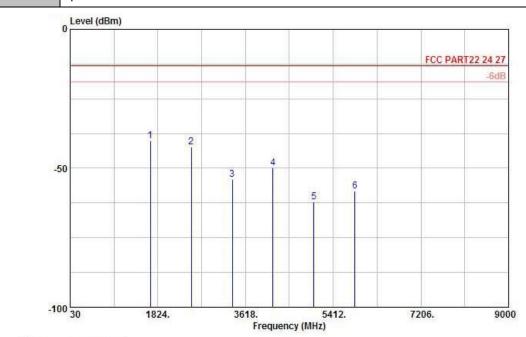
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1674	-34.91	-13	-21.91	-35.22	-35.56	0.57	3.37	Н	Pass
2510	-38.37	-13	-25.37	-42.73	-40.60	0.78	5.16	Н	Pass
3346	-50.49	-13	-37.49	-52.43	-54.13	0.87	6.66	Н	Pass
4182	-52.68	-13	-39.68	-55.42	-57.27	0.97	7.71	Н	Pass
5018	-60.60	-13	-47.60	-66.80	-66.27	1.09	8.91	Н	Pass
5854	-56.91	-13	-43.91	-65.62	-63.35	1.22	9.81	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

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Band :	GSM850	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Pena	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

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	-40.02	-13	-27.02	-44.82	-40.67	0.57	3.37	V	Pass
2510	-42.23	-13	-29.23	-47.73	-44.46	0.78	5.16	V	Pass
3346	-54.01	-13	-41.01	-55.99	-57.65	0.87	6.66	V	Pass
4182	-49.87	-13	-36.87	-53.71	-54.46	0.97	7.71	V	Pass
5018	-62.00	-13	-49.00	-66.94	-67.67	1.09	8.91	V	Pass
5854	-58.29	-13	-45.29	-66.28	-64.73	1.22	9.81	V	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

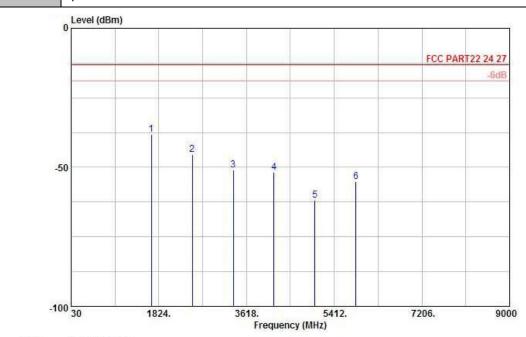
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Band: GSM850 Temperature: 22~23°C

Test Mode: EDGE 8 Link Relative Humidity: 40~41%

Test Engineer: Cloud Peng Polarization: Horizontal

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



Site : 03CHO1-KS

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

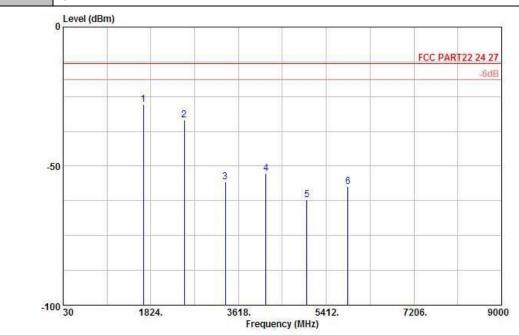
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1674	-38.27	-13	-25.27	-38.52	-38.92	0.57	3.37	Н	Pass
2510	-45.40	-13	-32.40	-48.77	-47.63	0.78	5.16	Н	Pass
3346	-50.92	-13	-37.92	-52.86	-54.56	0.87	6.66	Н	Pass
4182	-51.73	-13	-38.73	-54.47	-56.32	0.97	7.71	Н	Pass
5018	-61.78	-13	-48.78	-67.98	-67.45	1.09	8.91	Н	Pass
5854	-55.12	-13	-42.12	-63.83	-61.56	1.22	9.81	Н	Pass

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Report No.: FG130433

Band :	GSM850	Temperature :	22~23°C
Test Mode :	EDGE 8 Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	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

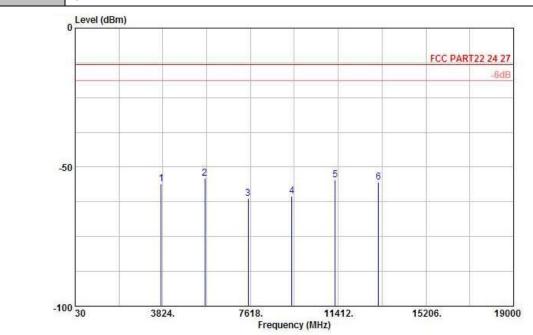
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1672	-27.90	-13	-14.90	-34.35	-28.55	0.57	3.37	V	Pass
2510	-33.41	-13	-20.41	-40.09	-35.64	0.78	5.16	V	Pass
3346	-55.80	-13	-42.80	-57.78	-59.44	0.87	6.66	V	Pass
4182	-52.60	-13	-39.60	-56.44	-57.19	0.97	7.71	V	Pass
5018	-62.07	-13	-49.07	-67.01	-67.74	1.09	8.91	V	Pass
5854	-57.33	-13	-44.33	-65.32	-63.77	1.22	9.81	V	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

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Band :	GSM1900	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	Polarization :	Horizontal

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



Site

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

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	-55.86	-13	-42.86	-56.83	-62.24	0.78	7.16	Н	Pass
5640	-54.11	-13	-41.11	-58.29	-62.65	1.04	9.58	Н	Pass
7520	-61.31	-13	-48.31	-66.44	-71.42	1.35	11.46	Н	Pass
9400	-60.50	-13	-47.50	-63.76	-71.56	1.75	12.81	Н	Pass
11280	-54.54	-13	-41.54	-66.03	-65.63	2	13.09	Н	Pass
13160	-55.35	-13	-42.35	-66.65	-67.06	2.04	13.75	Н	Pass

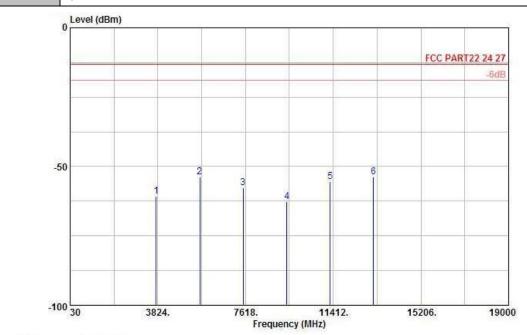
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUMAGIC

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Report No.: FG130433

Band: GSM1900 Temperature: 22~23°C	
Test Mode : GSM Link Relative Humidity : 40~41%	
Test Engineer : Cloud Peng 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

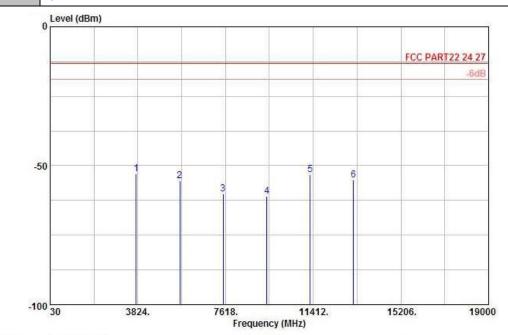
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-60.63	-13	-47.63	-62	-67.01	0.78	7.16	V	Pass
5640	-53.82	-13	-40.82	-57.15	-62.36	1.04	9.58	V	Pass
7520	-57.70	-13	-44.70	-62.19	-67.81	1.35	11.46	V	Pass
9400	-62.96	-13	-49.96	-64.18	-74.02	1.75	12.81	V	Pass
11280	-55.35	-13	-42.35	-66.59	-66.44	2	13.09	V	Pass
13160	-53.75	-13	-40.75	-64.94	-65.46	2.04	13.75	V	Pass

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Band :	GSM1900	Temperature :	22~23°C
Test Mode :	EDGE 8 Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	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

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	-52.87	-13	-39.87	-54.35	-59.25	0.78	7.16	Н	Pass
5640	-55.56	-13	-42.56	-59.74	-64.10	1.04	9.58	Н	Pass
7520	-60.30	-13	-47.30	-65.43	-70.41	1.35	11.46	Н	Pass
9400	-61.04	-13	-48.04	-64.30	-72.10	1.75	12.81	Н	Pass
11274	-53.09	-13	-40.09	-64.58	-64.18	2	13.09	Н	Pass
13160	-55.16	-13	-42.16	-66.46	-66.87	2.04	13.75	Н	Pass

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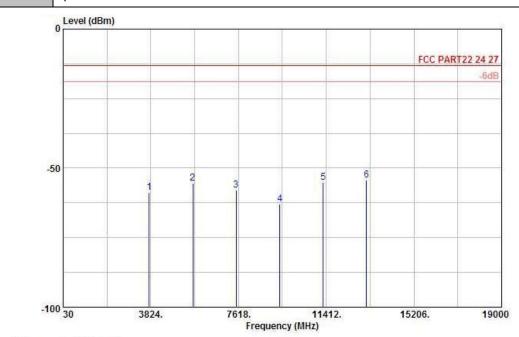
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Test Engineer : Cloud Peng

Band :	GSM1900	Temperature :	22~23°C
Test Mode :	EDGE 8 Link	Relative Humidity :	40~41%

Polarization :

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

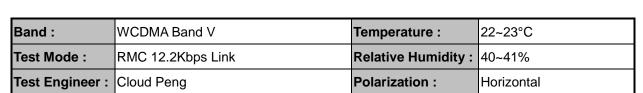
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-58.84	-13	-45.84	-60.21	-65.22	0.78	7.16	V	Pass
5640	-55.45	-13	-42.45	-58.67	-63.99	1.04	9.58	V	Pass
7520	-57.97	-13	-44.97	-62.46	-68.08	1.35	11.46	V	Pass
9400	-62.83	-13	-49.83	-64.05	-73.89	1.75	12.81	V	Pass
11280	-55.22	-13	-42.22	-66.46	-66.31	2	13.09	V	Pass
13160	-54.93	-13	-41.93	-66.12	-66.64	2.04	13.75	V	Pass

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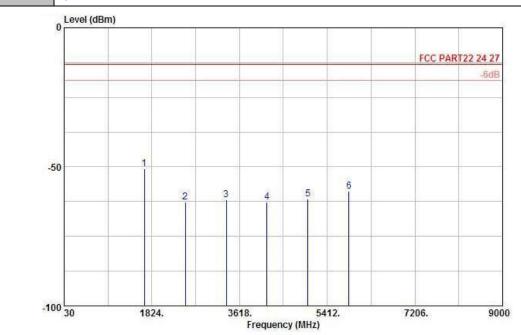
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Vertical



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

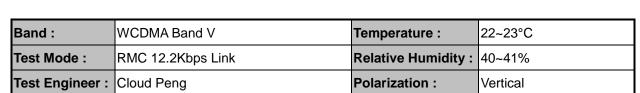


Site : 03CH01-KS Condition: FCC PART22 24 27 HF EIRP FACTOR-09020 HORIZONTAL

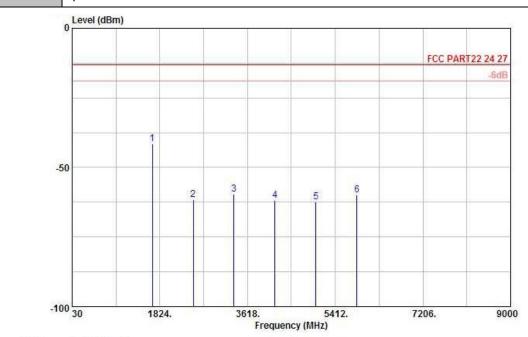
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1674	-50.77	-13	-37.77	-49.27	-51.42	0.57	3.37	Н	Pass
2509	-62.56	-13	-49.56	-64.81	-64.79	0.78	5.16	Н	Pass
3345	-61.77	-13	-48.77	-63.71	-65.41	0.87	6.66	Н	Pass
4182	-62.65	-13	-49.65	-65.39	-67.24	0.97	7.71	Н	Pass
5018	-61.59	-13	-48.59	-67.79	-67.26	1.09	8.91	Н	Pass
5854	-58.69	-13	-45.69	-67.40	-65.13	1.22	9.81	Н	Pass

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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

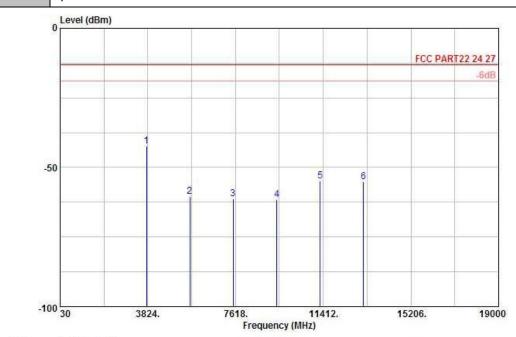
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
1670	-41.41	-13	-28.41	-45.90	-42.06	0.57	3.37	V	Pass
2509	-61.54	-13	-48.54	-64.65	-63.77	0.78	5.16	V	Pass
3340	-59.69	-13	-46.69	-61.67	-63.33	0.87	6.66	V	Pass
4182	-61.77	-13	-48.77	-65.61	-66.36	0.97	7.71	V	Pass
5018	-62.44	-13	-49.44	-67.38	-68.11	1.09	8.91	V	Pass
5854	-60.00	-13	-47.00	-67.99	-66.44	1.22	9.81	V	Pass

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Band :	WCDMA Band II	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	Polarization :	Horizontal

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



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

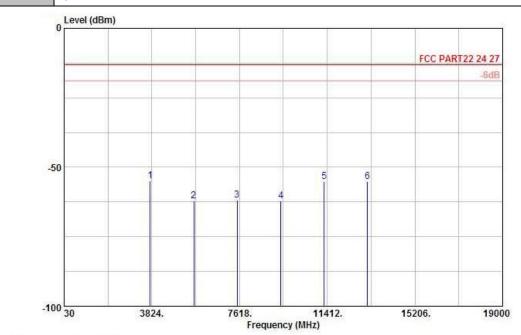
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3762	-42.31	-13	-29.31	-48.31	-48.69	0.78	7.16	Н	Pass
5642	-60.43	-13	-47.43	-64.61	-68.97	1.04	9.58	Н	Pass
7520	-61.27	-13	-48.27	-66.40	-71.38	1.35	11.46	Н	Pass
9400	-61.53	-13	-48.53	-64.79	-72.59	1.75	12.81	Н	Pass
11280	-54.76	-13	-41.76	-66.25	-65.85	2	13.09	Н	Pass
13160	-55.15	-13	-42.15	-66.45	-66.86	2.04	13.75	Н	Pass

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Band :	WCDMA Band II	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	40~41%
Test Engineer :	Cloud Peng	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

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)	
3758	-54.98	-13	-41.98	-56.35	-61.36	0.78	7.16	V	Pass
5640	-62.13	-13	-49.13	-65.35	-70.67	1.04	9.58	V	Pass
7520	-61.82	-13	-48.82	-66.31	-71.93	1.35	11.46	V	Pass
9400	-62.18	-13	-49.18	-63.4	-73.24	1.75	12.81	V	Pass
11280	-55.07	-13	-42.07	-66.31	-66.16	2	13.09	V	Pass
13160	-55.04	-13	-42.04	-66.23	-66.75	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.

Report No.: FG130433

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.
- 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 can not 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.

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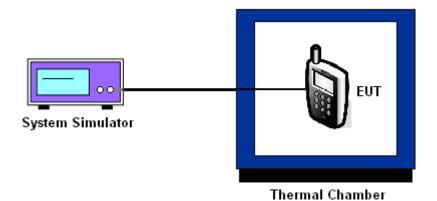
Report Issued Date: Apr. 20, 2011

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



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3.7.5 Test Setup



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3.7.6 Test Result of Temperature Variation

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

	GS	SM	EDO		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	N/A	N/A	N/A	N/A	
-20	N/A	N/A	N/A	N/A	
-10	12	0.01	24	0.03	
0	-29	-0.03	-15	-0.02	
10	11	0.01	-49	-0.06	PASS
20	-14	-0.02	-28	-0.03	
30	-37	-0.04	-23	-0.03	
40	-26	-0.03	16	0.02	
50	-36	-0.04	26	0.03	

Note:

- 1. The EUT stops transmitting at temperatures -20°C, and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -10 $^{\circ}$ C~55 $^{\circ}$ C.

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FCC RF Test Report

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

	GS	SM	EDO		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	N//A	N/A	N//A	N/A	
-20	N//A	N/A	N//A	N/A	
-10	-20	-0.01	50	0.03	
0	-28	-0.01	-32	-0.02	
10	10	0.01	38	0.02	PASS
20	-29	-0.02	-32	-0.02	
30	-22	-0.01	-24	-0.01	
40	-57	-0.03	30	0.02	
50	-69	-0.04	27	0.01	

Note:

- 1. The EUT stops transmitting at temperatures -20°C, and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -10 $^{\circ}$ C~55 $^{\circ}$ C.

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FCC RF Test Report

Band :	WCDMA Band V	Channel:	4182	
Limit (ppm) :	2.5			

_ ,	RMC 12	Result	
Temperature (°C)	Freq. Dev. Deviation (Hz) (ppm)		
-30	N//A	N/A	
-20	N//A	N/A	
-10	-10	-0.01	
0	12	0.01	
10	17	0.02	PASS
20	-11	-0.01	
30	-9	-0.01	
40	-19	-0.02	
50	-12	-0.01	

Note:

- 1. The EUT stops transmitting at temperatures -20°C, and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -10 $^{\circ}$ C~55 $^{\circ}$ C.

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FCC RF Test Report

Band :	WCDMA Band II	Channel:	9400	
Limit (ppm) :	2.5			

_ ,	RMC 12	Result	
Temperature (°C)	Freq. Dev. Deviation (Hz) (ppm)		
-30	N//A	N/A	
-20	N//A	N/A	
-10	-29	-0.02	
0	-26	-0.01	
10	22	0.01	PASS
20	-15	-0.01	
30	-22	-0.01	
40	-13	-0.01	
50	23	0.01	

Note:

- 1. The EUT stops transmitting at temperatures -20°C, and -30°C.
- 2. The manufacturer declared that the EUT could work properly between temperatures -10 $^{\circ}$ C~55 $^{\circ}$ 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
		3.8	-24	-0.03		PASS
	GSM	BEP	-23	-0.03		
GSM 850		4.2	-23	-0.03		
CH189		3.8	34	0.04		
	EDGE 8	BEP	35	0.04		
		4.2	37	0.04		
	GSM 900	3.8	-51	-0.03	2.5	
		BEP	-54	-0.03		
GSM 1900		4.2	-53	-0.03		
CH661	EDGE 8	3.8	31	0.02		
		BEP	24	0.01		
		4.2	26	0.01		
		3.8	-13	-0.02		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	-8	-0.01		
		4.2	10	0.01		
WCDMA Band II CH9400	_	3.8	31	0.02		
		BEP	-19	-0.01		
	12.2Kbps	4.2	-21	-0.01		

Note:

- 1. Normal Voltage = 3.8V.
- 2. Battery End Point (BEP) = 3.6 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Jan. 07, 2011	Jan. 06, 2012	Conducted (TH01-KS)
Power Meter	Agilent	E4416A	MY45101555	N/A	Aug. 24, 2010	Aug. 23, 2011	Conducted (TH01-KS)
Power Sensor	Agilent	E9327A	MY44421198	N/A	Aug. 24, 2010	Aug. 23, 2011	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 28, 2010	Dec. 27, 2011	Conducted (TH01-KS)
DC Power Supply	TOPWARD	3306D	N/A	N/A	N/A	N/A	Conducted (TH01-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	1GHz~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)
Signal Generator	R&S	SMR40	100455	10MHz~40GHz	Jan. 06, 2011	Jan. 05, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15-40GHz	Oct. 15, 2010	Oct. 14, 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. 07, 2011	Jan. 06, 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))		4.7	72		

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP130433 as below.

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