

FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Dash Music MARKETING NAME : Dash Music

FCC ID : YHLBLUDASHMUSIC

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

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 22, 2012 and completely tested on Apr. 26, 2013. 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





Report No.: FG342204

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 1 of 74
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG342204	Rev. 01	Initial issue of report	May 27, 2013

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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	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(b) §24.238(b)	99% Occupied Bandwidth and 26dB Bandwidth	N/A	PASS	-
3.5	§2.1051		< 43+10log ₁₀ (P[Watts])	PASS	-
3.5.6	§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 13.00 dB at 3760.000 MHz
3.7	§2.1055 §22.355 §24.235	Frequency Stability for Temperature and Voltage	< 2.5 ppm	PASS	-

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General Description 1

1.1 Applicant

CT Asia

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2 Manufacturer

Ragentek Technology Group

Building D10-D11, No. 58-60, Lane 3188, Xiupu Road, PuDong District, Shanghai, PRC

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Dash Music
Marketing Name	Dash Music
FCC ID	YHLBLUDASHMUSIC
EUT supports Radios application	GSM/GPRS/WCDMA/HSDPA/WLAN 11bgn/Bluetooth
HW Version	v1.3
SW Version	J101_BLU_ENG_S20130316
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard					
	GSM850: 824.2 MHz ~ 848.8 MHz				
Ty Fraguency	GSM1900: 1850.2 MHz ~ 1909.8MHz				
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz				
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz				
	GSM850: 869.2 MHz ~ 893.8 MHz				
Dy Fraguency	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
Rx Frequency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	GSM850 : 31.23 dBm				
Maximum Quanua Bawar ta Antanna	GSM1900 : 28.14 dBm				
Maximum Output Power to Antenna	WCDMA Band V : 21.32 dBm				
	WCDMA Band II : 21.38 dBm				
Antenna Type	Monopole Antenna				
	GSM: GMSK				
Type of Modulation	GPRS: GMSK				
	WCDMA: QPSK (Uplink)				
	HSDPA: QPSK (Uplink)				

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1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (%, Hz, ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.4460	0.05 ppm	246KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0466	0.02 ppm	4M20F9W
Part 24	GSM1900 GSM	GMSK	0.9721	0.03 ppm	248KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2269	0.01 ppm	4M20F9W

1.6 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.		FCC/IC Registration No.		
lest site NO.	TH01-KS	03CH01-KS	149928/4086E-1		

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Applied Standards 1.7

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
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01

Remark:

- All test items were verified and recorded according to the standards and without any deviation 1. during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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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	■ GSM Link						
GSM 1900	■ GSM Link	■ GSM Link						
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

Note: The maximum power levels are GSM mode for GMSK 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.

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 (GMSK, 1 Tx slot)	<mark>31.23</mark>	31.18	31.14	28.07	28.01	<mark>28.14</mark>		
GPRS (GMSK, 1 Tx slot) – CS1	31.22	31.18	31.14	28.05	28.00	28.13		
GPRS (GMSK, 2 Tx slots) – CS1	28.71	28.65	28.63	25.62	25.59	25.78		
GPRS (GMSK, 3 Tx slots) – CS1	27.30	27.20	27.16	24.20	24.18	24.33		
GPRS (GMSK, 4 Tx slots) – CS1	25.77	25.69	25.65	22.72	22.68	22.85		

Conducted Power (*Unit: dBm)								
Band	W	CDMA Band	d V	WCDMA Band II				
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
AMR	20.82	21.31	21.08	21.10	21.32	21.24		
RMC 12.2K	20.85	<mark>21.32</mark>	21.09	21.16	<mark>21.38</mark>	21.25		
HSDPA Subtest-1	19.16	19.59	19.45	19.40	19.82	19.88		
HSDPA Subtest-2	19.17	19.58	19.42	19.44	19.84	19.84		
HSDPA Subtest-3	19.22	19.56	19.45	19.51	19.86	19.85		
HSDPA Subtest-4	19.18	19.53	19.40	19.50	19.79	19.79		

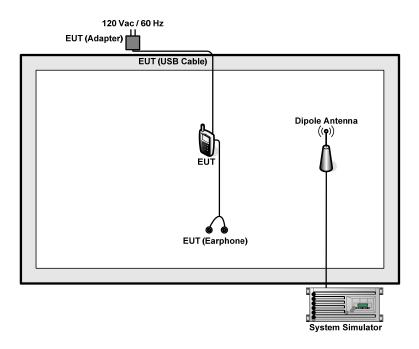
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Connection Diagram of Test System 2.2



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.8 dB and 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

= 4.8 + 10 = 14.8 (dB)

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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.

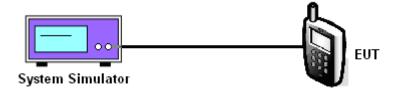
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to base station.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band								
Modes GSM850 (GSM)				WCDMA Band V (RMC 12.2Kbps)				
Channel	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)		
Frequency (MHz)	824.2	836.4	848.8	826.4	836.4	846.6		
Conducted Power (dBm)	31.23	31.18	31.14	20.85	21.32	21.09		
Conducted Power (Watts)	1.33	1.31	1.30	0.12	0.14	0.13		

PCS Band						
Modes	GSM1900 (GSM)			WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)				9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	28.07	28.01	28.14	21.16	21.38	21.25
Conducted Power (Watts)	0.64	0.63	0.65	0.13	0.14	0.13

Note: maximum burst average power for GSM, and maximum average power for WCDMA.

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

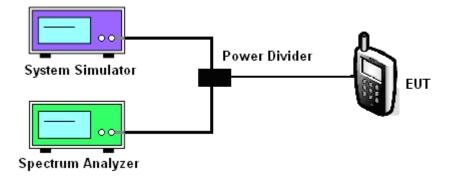
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to Spectrum Analyzer and System Simulator via power divider.
- 2. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector in spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector in spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator synchronized with the spectrum analyzer.
- 3. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

PCS Band							
Modes	G	GSM1900 (GSM)			Band II (RMC 1	12.2Kbps)	
Channel	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6	
Peak-to-Average Ratio (dB)	0.30	0.31	0.27	3.04	3.16	2.92	

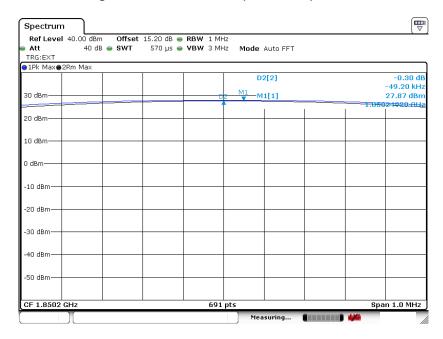
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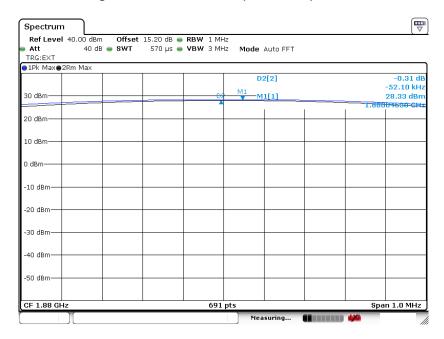
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band: GSM 1900 Test Mode: GSM Link

Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



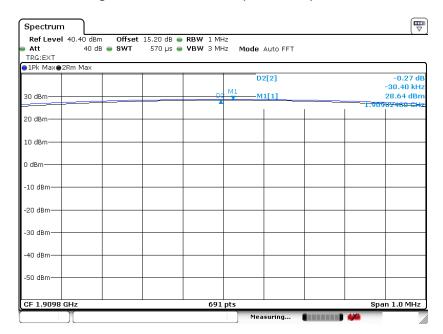
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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



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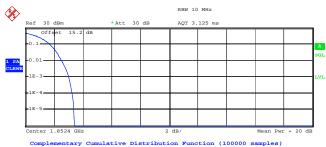


FCC RF Test Report

Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link

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Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



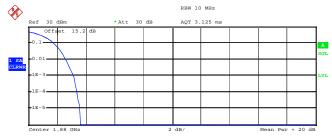
Complementary Cumulative Distribution Function (100000 samples) ${\tt Trace} \ 1$

Trace I
Mean 20.11 dBm
Peak 23.51 dBm
Crest 3.40 dB

10 % 1.72 dB
1 % 2.56 dB
1 % 3.04 dB
.01 % 3.28 dB

Date: 26.APR.2013 15:04:38

Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)



Complementary Cumulative Distribution Function (100000 samples) ${\tt Trace} \ 1$

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Mean 20.81 dBm
Peak 24.42 dBm
Crest 3.61 dB

10 % 1.76 dB
1 % 2.60 dB
.1 % 3.16 dB
.01 % 3.40 dB

Date: 26.APR.2013 15:03:57

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Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)

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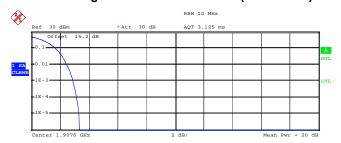
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Complementary Cumulative Distribution Function (100000 samples) ${\tt Trace} \quad 1$

Trace 1
Mean 21.01 dBm
Peak 24.35 dBm
Crest 3.34 dB

10 % 1.68 dB

10 % 1.68 dB 1 % 2.48 dB .1 % 2.92 dB .01 % 3.16 dB

Date: 26.APR.2013 15:04:19

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3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

- 1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
- 2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 KHz, VBW= 300 KHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per section 4.0 of KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. 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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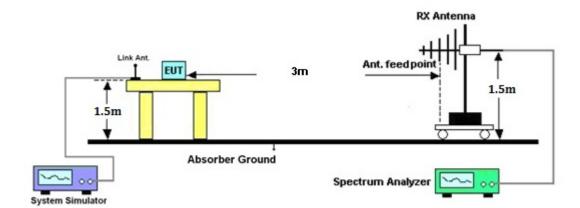
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3.3.4 Test Setup



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3.3.5 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	-22.73	-48.12	0.00	-1.08	24.31	0.2699
836.40	-21.93	-48.28	0.00	-0.93	25.42	0.3484
848.80	-21.10	-48.35	0.00	-0.76	26.49	0.4460
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
824.20	-31.13	-47.97	0.00	-1.08	15.76	0.0377
836.40	-29.72	-48.01	0.00	-0.93	17.36	0.0545
848.80	-28.62	-48.05	0.00	-0.76	18.67	0.0737

	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP						
		Hoi	rizontal Polariza	tion			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
826.40	-31.62	-48.12	0.00	-1.08	15.42	0.0349	
836.40	-30.67	-48.28	0.00	-0.93	16.68	0.0466	
846.60	-31.41	-48.35	0.00	-0.76	16.18	0.0415	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
826.40	-39.94	-47.97	0.00	-1.08	6.95	0.0049	
836.40	-38.56	-48.01	0.00	-0.93	8.52	0.0071	
846.60	-38.93	-48.05	0.00	-0.76	8.36	0.0069	

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP					
		Hoi	rizontal Polariza	tion		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-25.43	-51.88	0.00	1.96	28.41	0.6933
1880.00	-25.67	-52.99	0.00	2.00	29.32	0.8560
1909.80	-26.38	-54.28	0.00	1.98	29.88	0.9721
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)
1850.20	-26.92	-52.13	0.00	1.96	27.17	0.5211
1880.00	-28.61	-53.17	0.00	2.00	26.56	0.4524
1909.80	-29.74	-54.13	0.00	1.98	26.37	0.4334

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
		Hoi	rizontal Polariza	tion			
Frequency (MHz)							
1852.40	-31.77	-51.88	0.00	1.96	22.07	0.1610	
1880.00	-31.46	-52.99	0.00	2.00	23.53	0.2256	
1907.60	-32.70	-54.28	0.00	1.98	23.56	0.2269	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)	
1852.40	-33.29	-52.13	0.00	1.96	20.80	0.1202	
1880.00	-34.43	-53.17	0.00	2.00	20.74	0.1185	
1907.60	-35.92	-54.13	0.00	1.98	20.19	0.1045	

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 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.

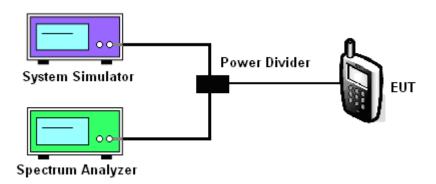
3.4.2 Measuring Instruments

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 RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth and 26 dB bandwidth of the middle channel for the highest RF powers were measured.

3.4.4 Test Setup



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3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes		GSM850 (GSM)				
Channel	128	189	251			
Channel	(Low) (Mid)		(High)			
Frequency (MHz)	824.2 836.4 848.8					
99% OBW (KHz)	246.00	242.00	246.00			
26dB BW (KHz)	314.00	312.00	314.00			

PCS Band						
Modes		GSM1900 (GSM)				
6 1 1	512	661	810			
Channel	(Low)	(Mid)	(High)			
Frequency (MHz)	1850.2	1880	1909.8			
99% OBW (KHz)	248.00	248.00	246.00			
26dB BW (KHz)	312.00	310.00	308.00			

Cellular Band							
Modes	WCD	WCDMA Band V (RMC 12.2Kbps)					
Channel	4132 (Low)	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4 836.4 846.6						
99% OBW (MHz)	4.20	4.18	4.18				
26dB BW (MHz)	4.68	4.68	4.68				

PCS Band							
Modes	WCD	WCDMA Band II (RMC 12.2Kbps)					
Channel	9262 (Low)	9262 (Low) 9400 (Mid) 9538 (High)					
Frequency (MHz)	1852.4	1852.4 1880 1907.6					
99% OBW (MHz)	4.18	4.20	4.20				
26dB BW (MHz)	4.68	4.68	4.68				

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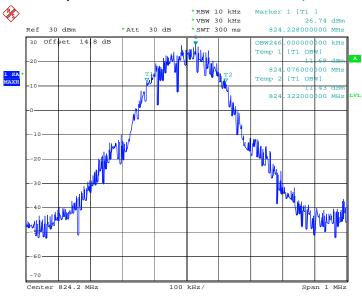


3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth



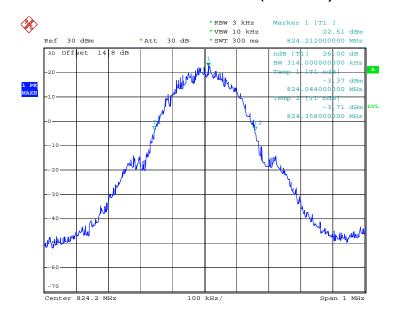
99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)

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Date: 21.APR.2013 18:47:02

26dB Bandwidth Plot on Channel 128 (824.2 MHz)



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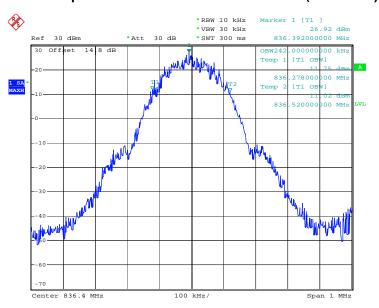
Date: 21.APR.2013 18:29:21

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



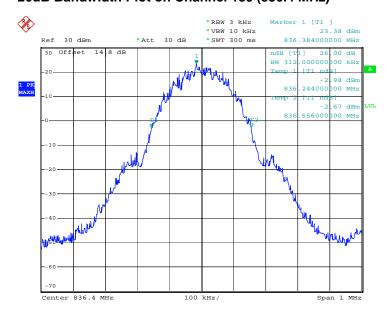
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 21.APR.2013 18:47:28

26dB Bandwidth Plot on Channel 189 (836.4 MHz)



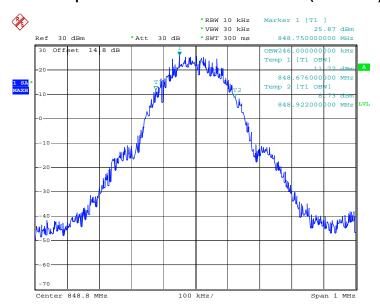
Date: 21.APR.2013 18:29:47

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 26 of 74 Report Issued Date: May 27, 2013 Report Version : Rev. 01



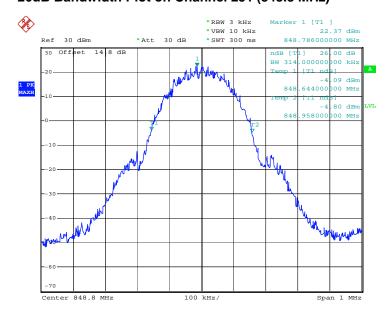
Report No.: FG342204

99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 21.APR.2013 18:47:54

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 21.APR.2013 18:30:12

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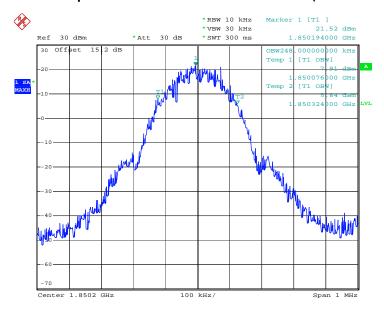
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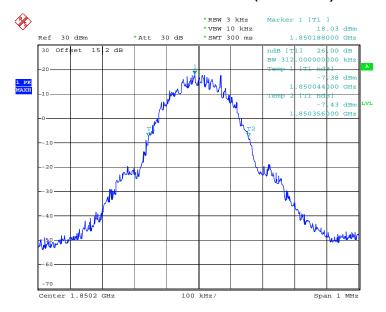
Band: GSM 1900 Test Mode: GSM Link

99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 21.APR.2013 19:01:54

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 21.APR.2013 19:20:54

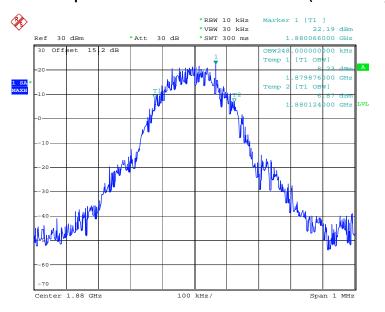
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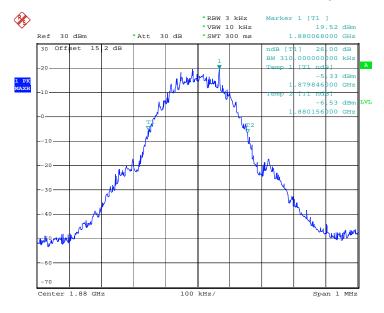
Report No.: FG342204

99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 21.APR.2013 19:30:25

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

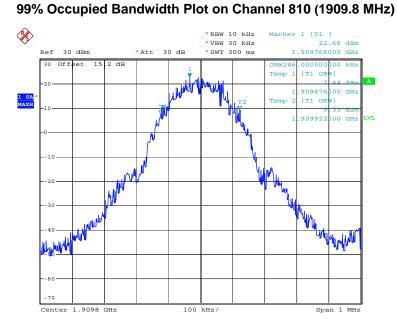


Date: 21.APR.2013 19:13:43

SPORTON INTERNATIONAL (KUNSHAN) INC.

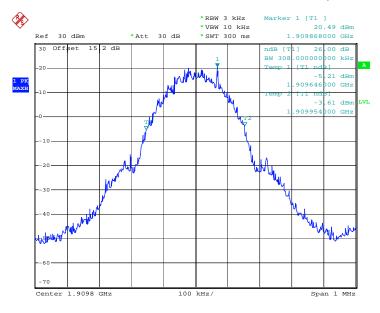
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 29 of 74
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Date: 21.APR.2013 19:02:45

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

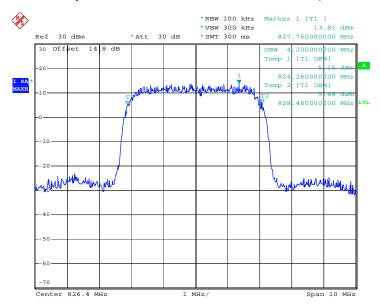


Date: 21.APR.2013 19:14:08

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 30 of 74
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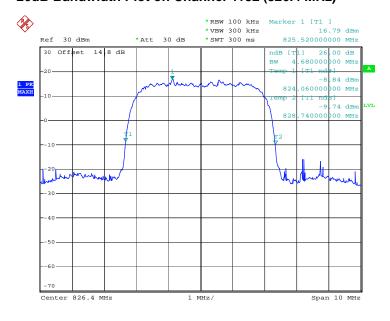
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link

99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 21.APR.2013 19:46:03

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

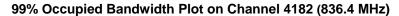


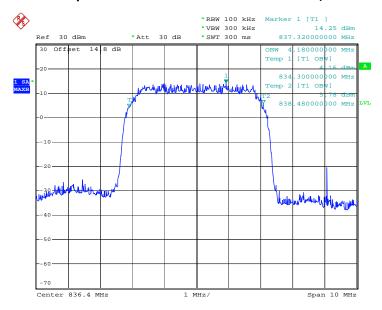
Date: 21.APR.2013 19:35:04

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 31 of 74
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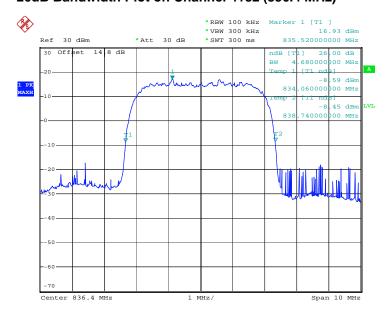
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Date: 21.APR.2013 19:48:38

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

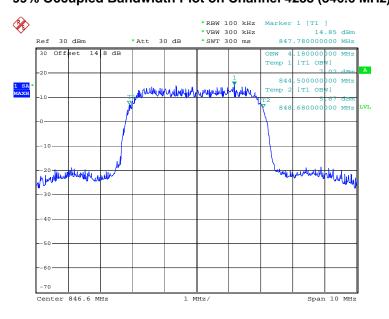


Date: 21.APR.2013 19:35:30

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 32 of 74
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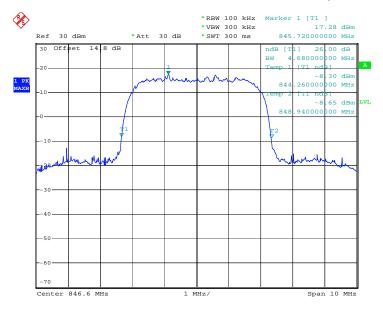


99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 21.APR.2013 19:46:55

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

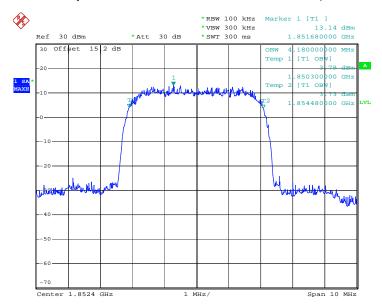


Date: 21.APR.2013 19:35:56

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 33 of 74
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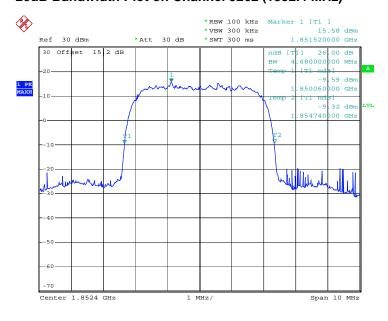
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link

99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 21.APR.2013 19:52:07

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



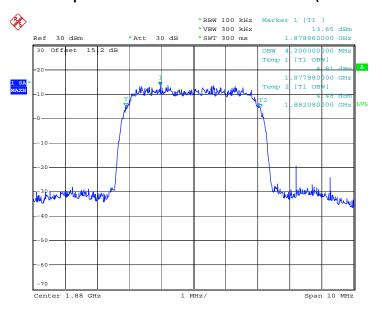
Date: 21.APR.2013 19:50:50

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 34 of 74
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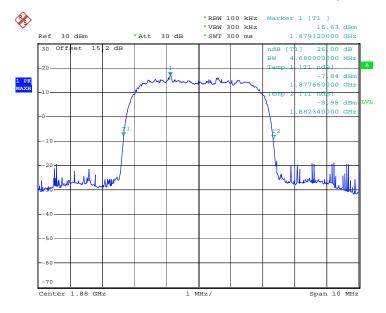
Report No.: FG342204

99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 21.APR.2013 20:01:53

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 21.APR.2013 19:51:16

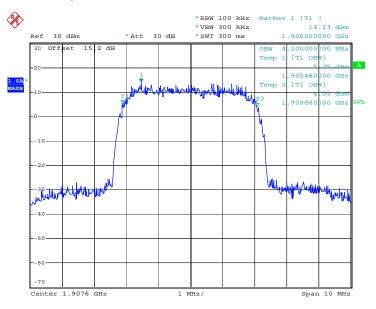
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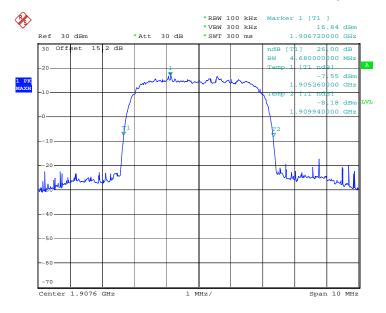
Report No.: FG342204

99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 21.APR.2013 20:07:45

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 21.APR.2013 19:51:41

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3.5 Band Edge Measurement

3.5.1 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.

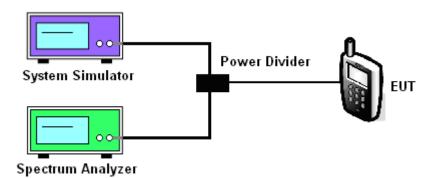
3.5.2 Measuring Instruments

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.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.4 Test Setup



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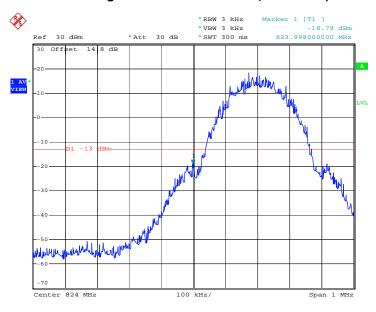
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-18.59dBm	Measurement Value :	-18.79dBm

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 21.APR.2013 18:32:55

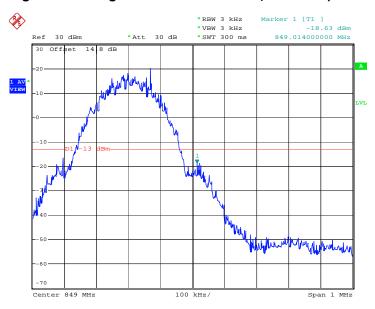
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

For example, -18.79dBm + 0.20dB = -18.59dBm

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Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-18.43dBm	Measurement Value :	-18.63dBm

Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 21.APR.2013 18:33:20

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

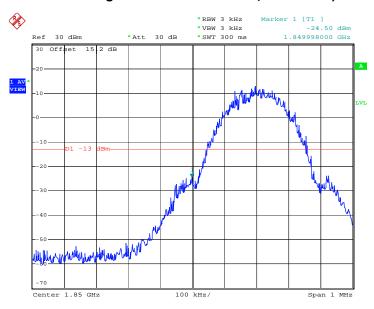
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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-24.33dBm	Measurement Value :	-24.50dBm

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



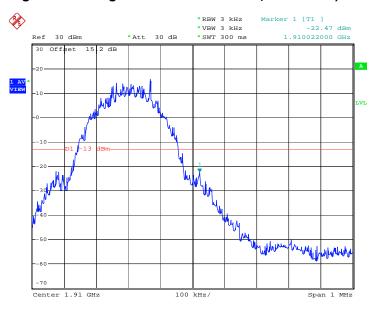
Date: 21.APR.2013 19:16:50

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.17dB	Maximum 26dB Bandwidth :	0.312MHz
Band Edge :	-22.30dBm	Measurement Value :	-22.47dBm

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 21.APR.2013 19:17:16

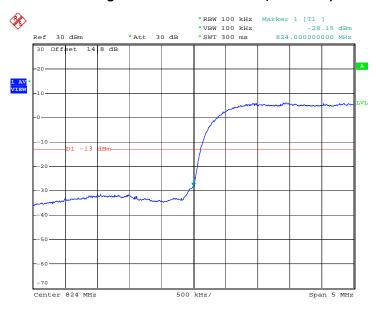
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.45dBm	Measurement Value :	-28.15dBm

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



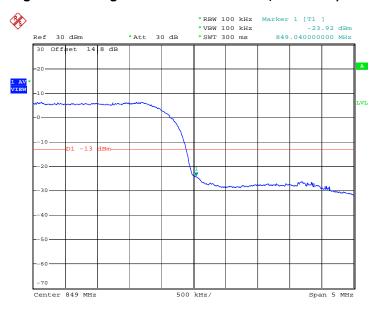
Date: 21.APR.2013 19:38:40

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-27.22dBm	Measurement Value :	-23.92dBm

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 21.APR.2013 19:39:06

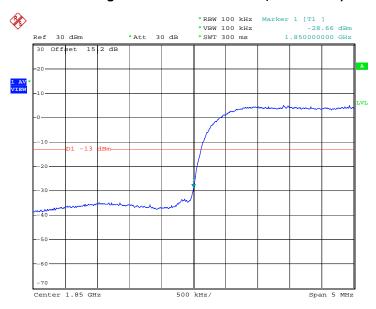
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 43 of 74
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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.96dBm	Measurement Value :	-28.66dBm

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Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 21.APR.2013 19:54:26

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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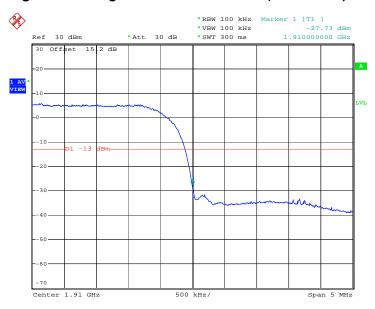
Report Issued Date: May 27, 2013

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

Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.03dBm	Measurement Value :	-27.73dBm

Report No.: FG342204

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 21.APR.2013 19:54:52

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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



3.5.6 Conducted Spurious Emission Measurement

3.5.7 Description of Conducted Spurious Emission Measurement

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

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

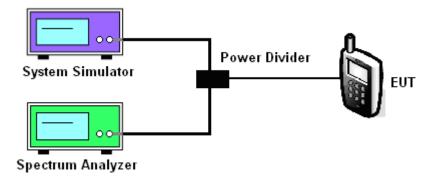
3.5.8 Measuring Instruments

See list of measuring instruments of this test report.

3.5.9 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.5.10 Test Setup



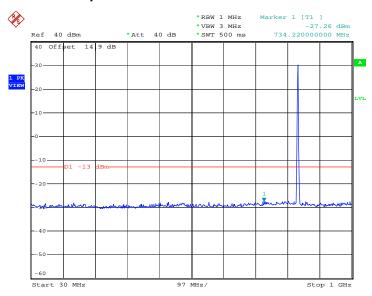
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC



3.5.11 Test Result (Plots) of Conducted Spurious Emission

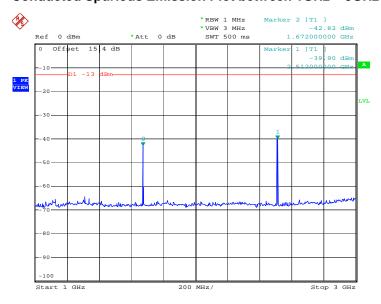
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.APR.2013 18:55:02

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

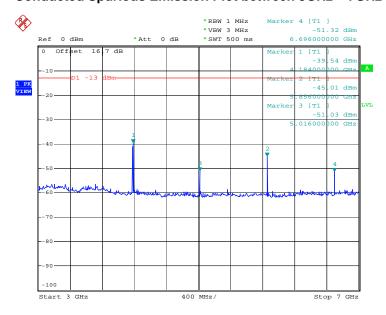


Date: 21.APR.2013 18:56:26

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 47 of 74
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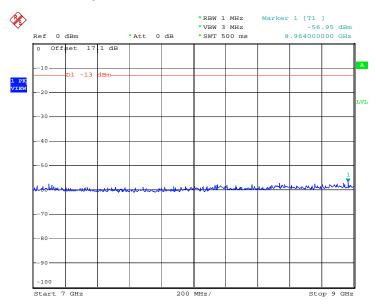


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.APR.2013 18:57:28

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 21.APR.2013 18:58:06

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 48 of 74
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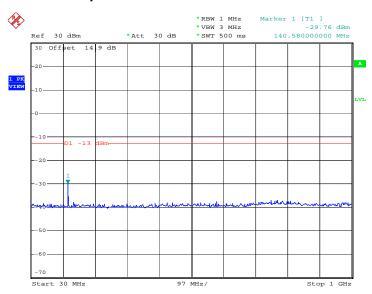
Report No.: FG342204

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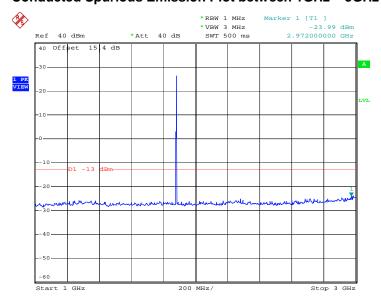
Band:	GSM1900	Channel:	CH661
Test Mode :	GSM Link	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.APR.2013 19:07:09

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

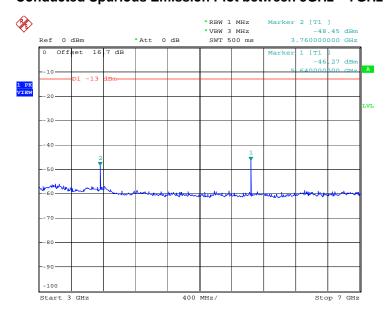


Date: 21.APR.2013 19:08:01

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 49 of 74
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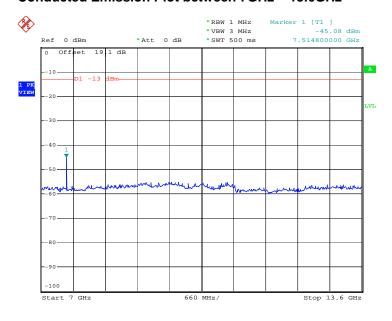


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.APR.2013 19:08:46

Conducted Emission Plot between 7GHz ~ 13.6GHz



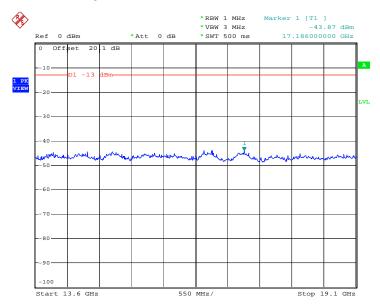
Date: 21.APR.2013 19:09:38

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 50 of 74
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Report No. : FG342204

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 21.APR.2013 19:10:13

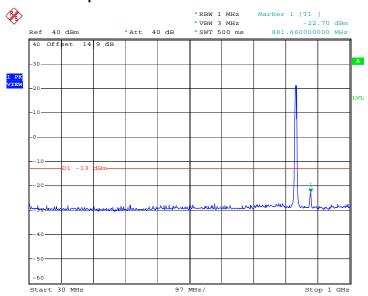
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 51 of 74
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 Band :
 WCDMA Band V
 Channel :
 CH4182

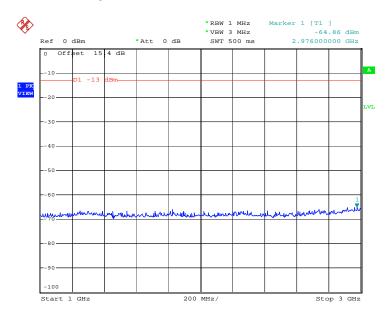
 Test Mode :
 RMC 12.2Kbps Link
 Frequency :
 836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.APR.2013 19:42:03

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

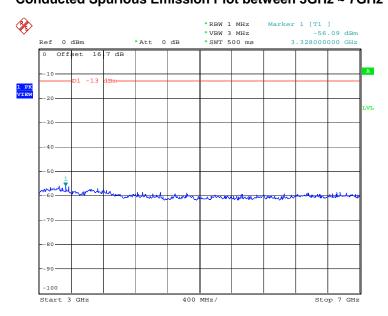


Date: 26.APR.2013 16:01:01

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 52 of 74
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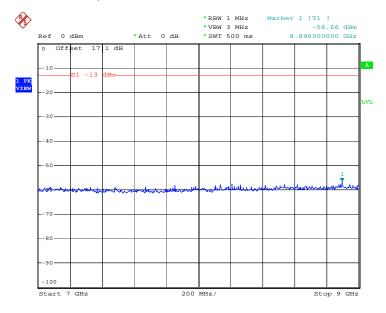


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 21.APR.2013 19:43:33

Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 21.APR.2013 19:43:57

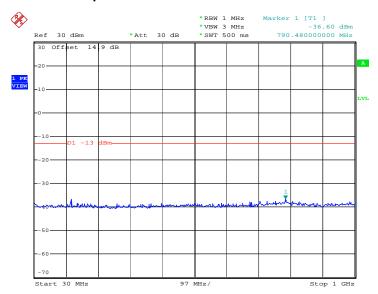
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 53 of 74
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 Band :
 WCDMA Band II
 Channel :
 CH9400

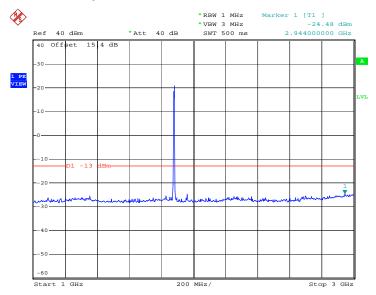
 Test Mode :
 RMC 12.2Kbps Link
 Frequency :
 1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 21.APR.2013 19:57:09

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



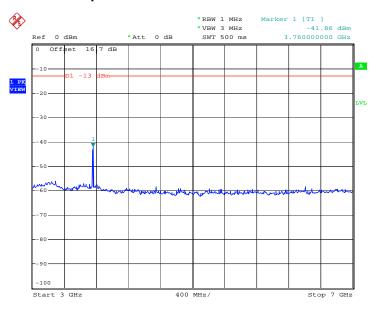
Date: 21.APR.2013 19:57:51

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 54 of 74
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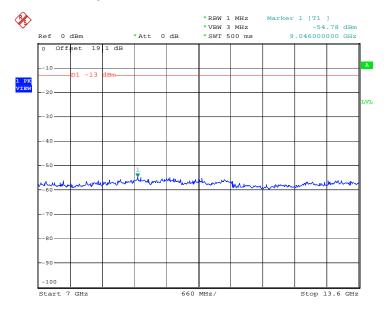
Report No.: FG342204





Date: 21.APR.2013 19:58:23

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



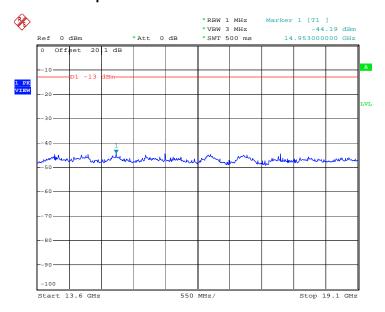
Date: 21.APR.2013 19:58:55

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 55 of 74 Report Issued Date: May 27, 2013 Report Version : Rev. 01



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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 21.APR.2013 19:59:28

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 56 of 74
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3.6 Field Strength of Spurious Radiated Measurement

3.6.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

Report No.: FG342204

3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

- The EUT was placed on a rotatable wooden table with 0.8 meter above 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, 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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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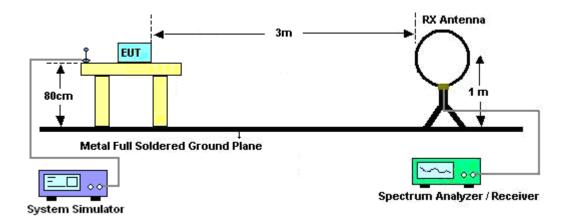
- 11. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.
- 12. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 13. ERP (dBm) = EIRP 2.15



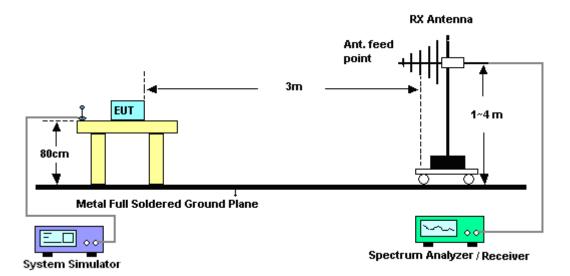
Report No. : FG342204

3.6.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



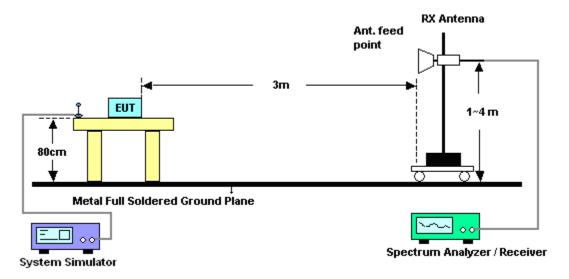
SPORTON INTERNATIONAL (KUNSHAN) INC.

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For radiated emissions above 1GHz



3.6.5 Test Results of Radiated Spurious Emission (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

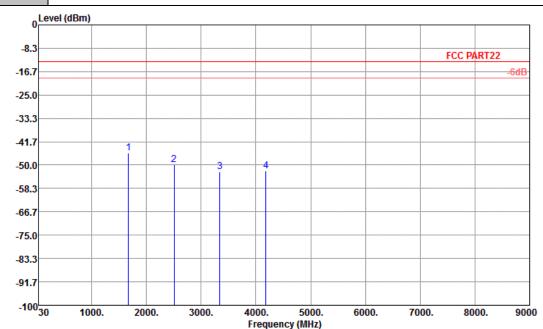
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 59 of 74
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3.6.6 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
Domark :	Spurious emissions within 20 1000MHz were found more than 20dP below limit line		

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



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR HORIZONTAL

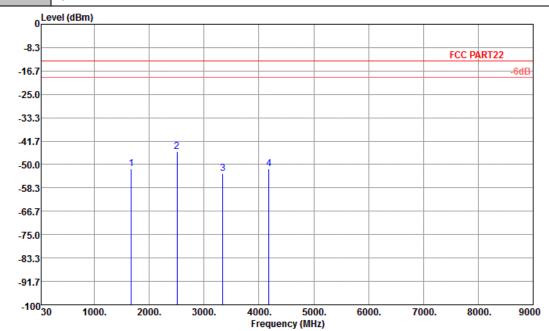
EUT : (FG)342204

Plane : E2

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	-45.80	-13	-32.80	-49.61	-46.45	0.57	3.37	Н	Pass
2510	-49.73	-13	-36.73	-55.47	-51.96	0.78	5.16	Н	Pass
3344	-52.48	-13	-39.48	-59.12	-56.12	0.87	6.66	Н	Pass
4182	-52.11	-13	-39.11	-61.96	-56.70	0.97	7.71	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 60 of 74
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Band :	GSM850	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR VERTICAL

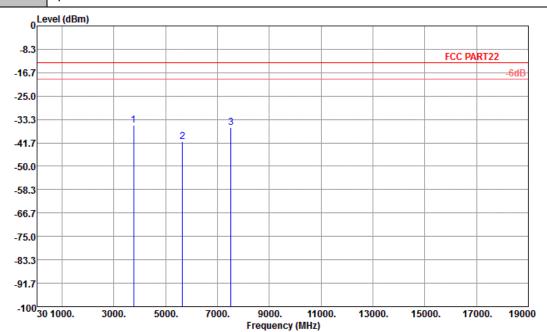
EUT : (FG)342204

Plane : E2

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	-51.57	-13	-38.57	-56.30	-52.22	0.57	3.37	V	Pass
2510	-45.50	-13	-32.50	-55.12	-47.73	0.78	5.16	V	Pass
3345	-53.07	-13	-40.07	-61.52	-56.71	0.87	6.66	V	Pass
4182	-51.53	-13	-38.53	-62.56	-56.12	0.97	7.71	V	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 61 of 74
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Band :	GSM1900	Temperature :	22~23°C
Test Mode :	GSM Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR HORIZONTAL

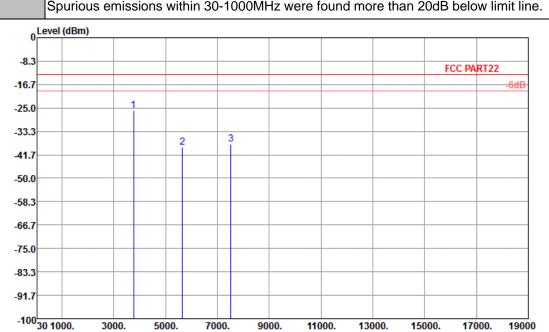
EUT : (FG)342204

Plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-35.44	-13	-22.44	-49.69	-41.82	0.78	7.16	Н	Pass
5640	-41.16	-13	-28.16	-58.11	-49.70	1.04	9.58	Н	Pass
7520	-36.31	-13	-23.31	-57.39	-46.42	1.35	11.46	Н	Pass

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Band :	GSM1900	Temperature :	22~23°C				
Test Mode :	GSM Link	Relative Humidity :	41~42%				
Test Engineer :	Steven Hao	Polarization :	Vertical				
Domork .	Courious amissions within 20 1000MHz were found more than 20dD below limit line						



Frequency (MHz)

Site : 03CH01-KS

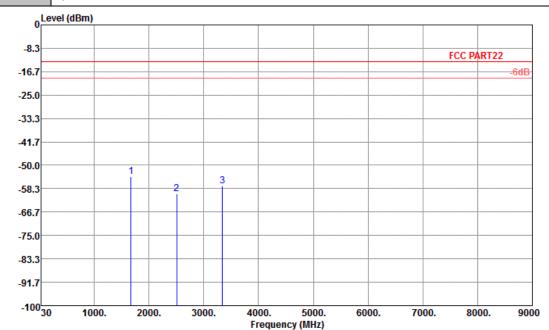
Condition : FCC PART22 HF EIRP FACTOR VERTICAL

EUT : (FG)342204 Mode : mode 1 Plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-26.00	-13	-13.00	-42.61	-32.38	0.78	7.16	V	Pass
5640	-39.13	-13	-26.13	-57.62	-47.67	1.04	9.58	V	Pass
7520	-37.88	-13	-24.88	-59.61	-47.99	1.35	11.46	V	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 63 of 74
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Band :	WCDMA Band V	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00.15.1



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR HORIZONTAL

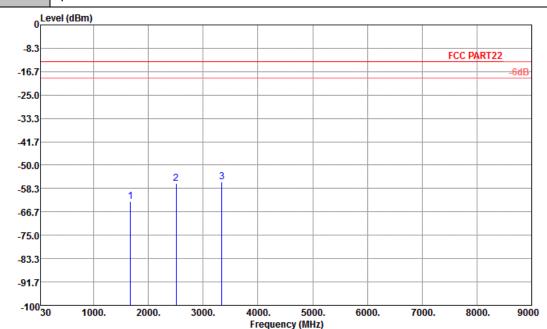
EUT : (FG)342204

Plane : E2

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	-53.98	-13	-40.98	-55.83	-54.63	0.57	3.37	Н	Pass
2509	-60.28	-13	-47.28	-65.99	-62.51	0.78	5.16	Н	Pass
3345	-57.27	-13	-44.27	-63.91	-60.91	0.87	6.66	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 64 of 74
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Band :	WCDMA Band V	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical
			•



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR VERTICAL

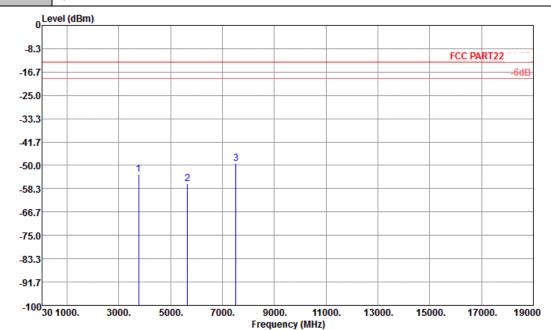
EUT : (FG)342204

Plane : E2

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	-62.92	-13	-49.92	-63.54	-63.57	0.57	3.37	V	Pass
2509	-56.42	-13	-43.42	-64.61	-58.65	0.78	5.16	V	Pass
3345	-56.07	-13	-43.07	-64.52	-59.71	0.87	6.66	V	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 65 of 74
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Band :	WCDMA Band II	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Horizontal
_	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		00 15 1 1 11 11



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR HORIZONTAL

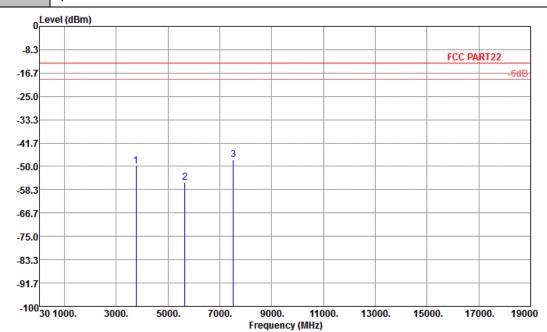
EUT : (FG)342204

Plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-53.08	-13	-40.08	-60.79	-59.46	0.78	7.16	Н	Pass
5640	-56.66	-13	-43.66	-65.34	-65.20	1.04	9.58	Н	Pass
7520	-49.21	-13	-36.21	-64.31	-59.32	1.35	11.46	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASHMUSIC Page Number : 66 of 74
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Band :	WCDMA Band II	Temperature :	22~23°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	41~42%
Test Engineer :	Steven Hao	Polarization :	Vertical



Site : 03CH01-KS

Condition : FCC PART22 HF EIRP FACTOR VERTICAL

EUT : (FG)342204

Plane : H

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dBi)	(H/V)	
3760	-49.96	-13	-36.96	-60.94	-56.34	0.78	7.16	V	Pass
5640	-55.64	-13	-42.64	-64.5	-64.18	1.04	9.58	V	Pass
7520	-47.55	-13	-34.55	-64.76	-57.66	1.35	11.46	V	Pass

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Frequency Stability for Temperature and Voltage Measurement 3.7

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 before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized 3. 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

- 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.

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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	Frequency:	836.4 MHz

	GSM				
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-11	-0.01			
-20	-12	-0.01			
-10	-17	-0.02			
0	-23	-0.03			
10	-24	-0.03	PASS		
20	-32	-0.04			
30	-36	-0.04			
40	-42	-0.05			
50	-37	-0.04			

Band :	GSM 1900	Channel:	661
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	GSM				
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result		
-30	-17	-0.01			
-20	-21	-0.01			
-10	-42	-0.02			
0	-28	-0.01			
10	-32	-0.02	PASS		
20	-23	-0.01			
30	-32	-0.02			
40	-29	-0.02			
50	-38	-0.02			

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Band :	WCDMA Band V	Channel:	4182
Limit (ppm) :	2.5	Frequency:	836.4 MHz

- ,	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	14	0.02	
-20	16	0.02	
-10	13	0.02	
0	12	0.01	
10	-12	-0.01	PASS
20	-17	-0.02	
30	-10	-0.01	
40	-17	-0.02	
50	-15	-0.02	

Band :	WCDMA Band II	Channel:	9400
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	24	0.01	
-20	19	0.01	
-10	23	0.01	
0	17	0.01	
10	-16	-0.01	PASS
20	-23	-0.01	
30	-17	-0.01	
40	-24	-0.01	
50	-27	-0.01	

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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
0014.050		3.7	-33	-0.04		
GSM 850 CH189	GSM	BEP	-28	-0.03		
Citios		4.2	-35	-0.04		DACC
0014.4000		3.7	-46	-0.02	2.5	
GSM 1900 CH661	GSM	BEP	-42	-0.02		
СПООТ		4.2	-57	-0.03		
14/0DMA D 11/	5110	3.7	-14	-0.02	2.5	PASS
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	17	0.02	- - - - -	
CH4162	12.21000	4.2	-16	-0.02		
	5140	3.7	-28	-0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	23	0.01		
Ci 19400	12.210093	4.2	-17	-0.01		

Note:

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

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 29, 2012	Apr. 21, 2013~ Apr. 26, 2013	Dec. 28, 2013	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV30	100845	9kHz~30GHz	Nov. 06, 2012	Apr. 21, 2013~ Apr. 26, 2013	Nov. 05, 2013	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 29, 2012	Apr. 21, 2013~ Apr. 26, 2013	Dec. 28, 2013	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Apr. 21, 2013~ Apr. 26, 2013	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 29, 2012	Apr. 21, 2013~ Apr. 26, 2013	Dec. 28, 2013	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Apr. 24, 2013	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	100400	9kHz~30GHz	Jun. 01, 2012	Apr. 24, 2013	May 31, 2013	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Apr. 24, 2013	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2013	Apr. 24, 2013	Jan. 05, 2014	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Apr. 24, 2013	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 29, 2012	Apr. 24, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz~40GHz	Nov. 23, 2012	Apr. 24, 2013	Nov. 22, 2013	Radiation (03CH01-KS)
HFH2-Z2 Loop Antenna	R&S	HFH2-Z2	100321	9KHZ-30MHZ	N/A	Apr. 24, 2013	N/A	Radiation (03CH01-KS)
Signal Generator	R&S	SMR40	100455	10MHz-40GHz	Dec. 29, 2012	Apr. 24, 2013	Dec. 28, 2013	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 19, 2012	Apr. 24, 2013	Sep. 18, 2013	Radiation (03CH01-KS)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.54
3378 (C = 20C(y))	

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

Measuring Uncertainty for a Level of	
Confidence of 95%	4.72
(U = 2Uc(y))	

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Appendix A. Photographs of EUT

Please refer to Sporton report number EP342204 as below.

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