

**FCC RF Test Report** 

APPLICANT : CT Asia

**EQUIPMENT**: GSM850/1900 WCDMA850/1900 BT/WIFI Mobile Phone

BRAND NAME : BLU
MODEL NAME : Dash3.2

FCC ID : YHLBLUDASH32

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

**CLASSIFICATION**: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 24, 2012 and completely tested on Dec. 13, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager





Report No.: FG2N2401

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: YHLBLUDASH32 Page Number : 1 of 74
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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG2N2401	Rev. 01	Initial issue of report	Dec. 17, 2012

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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	§24.232(d)	N/A	Peak-to-Average Ratio	< 13 dB	PASS	-
3.3	§22.913(a)(2)	RSS-132(4.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.4	§2.1049 §22.917(a) §24.238(a)	N/A	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Band Edge Measurement	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	RSS-132 (4.5.1) RSS-133 (6.5.1)	Conducted Spurious Emission	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.7	§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 <sub>10</sub> (P[Watts])	PASS	Under limit 31.60 dB at 2510.000 MHz
3.8	§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

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

#### Manufacturer 1.2

Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No.7028, Shennan Avenue, Futian District, Shenzhen, China

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1.3 Feature of Equipment Under Test

	Product Feature
Equipment	GSM850/1900 WCDMA850/1900 BT/WIFI Mobile Phone
Brand Name	BLU
Model Name	Dash3.2
FCC ID	YHLBLUDASH32
EUT supports Radios application	GSM/GPRS/WCDMA/HSDPA/WLAN 11bgn/Bluetooth
HW Version	DASH 3.2_MAINBOARD_P4
SW Version	DASH 3.2_0401_V1418
EUT Stage	Production Unit

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two SIM cards for EUT. They are SIM1 card and SIM2 card. After pre-scan two SIM cards, we found test result with SIM1 card was the worst, so we choose SIM1 card to perform all tests.

we found test result with Shirt card was the worst, so we choose Shirt card to perform all tests.					
Product Speci	fication 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				
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz				
	GSM1900: 1930.2 MHz ~ 1989.8 MHz				
	WCDMA Band V: 871.4 MHz ~ 891.6 MHz				
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz				
	GSM850 : 31.85 dBm				
Maximum Quitnut Bower to Antonno	GSM1900 : 28.85 dBm				
Maximum Output Power to Antenna	WCDMA Band V : 22.95 dBm				
	WCDMA Band II : 21.43 dBm				
Antenna Type	Fixed Internal Antenna				
	GSM: GMSK				
Type of Modulation	GPRS: GMSK				
	WCDMA: QPSK (Uplink)				
	HSDPA: QPSK (Uplink)				

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# 1.4 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	0.7328	0.02 ppm	250KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0824	0.01 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	0.8375	0.03 ppm	250KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1679	0.01 ppm	4M18F9W

### 1.5 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		

### 1.6 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
- FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

#### Remark:

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

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### 1.7 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
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

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#### **Test Configuration of Equipment Under Test** 2

#### 2.1 **Test Mode**

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

Frequency range investigated for radiated emission is as follows:

- 30 MHz to 9000 MHz for GSM850 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:

- 1. The maximum power levels are GSM mode for GMSK link, RMC 12.2Kbps mode for WCDMA band V and WCDMA band II, only these modes were used for all tests.
- 2. Because there are individual antennas for each WWAN, WLAN and Bluetooth, the co-location test modes are not required.

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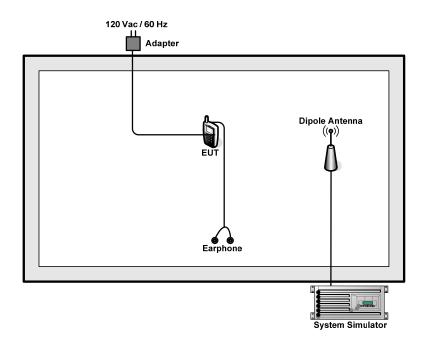


The conducted power tables are as follows:

Conducted Power (*Unit: dBm)							
Band		GSM850			GSM1900		
Channel	128	128 189 251			661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	<mark>31.85</mark>	31.75	31.68	28.36	28.52	<mark>28.85</mark>	
GPRS 8	31.83	31.74	31.64	28.32	28.46	28.81	
GPRS 10	30.69	30.59	30.50	27.73	27.87	28.22	
GPRS 11	28.34	28.20	28.09	26.42	26.51	26.87	
GPRS 12	27.31	27.15	27.01	25.58	25.70	26.04	

Conducted Power (*Unit: dBm)							
Band	Band WCDMA Band V				WCDMA 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	22.94	<mark>22.95</mark>	22.57	21.31	21.25	<mark>21.43</mark>	
HSDPA Subtest-1	21.42	21.44	21.05	20.34	20.28	20.45	
HSDPA Subtest-2	21.31	21.33	20.98	20.20	20.10	20.31	
HSDPA Subtest-3	21.02	21.03	20.64	20.08	19.95	20.18	
HSDPA Subtest-4	20.95	20.96	20.59	19.87	19.81	19.99	

## 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.

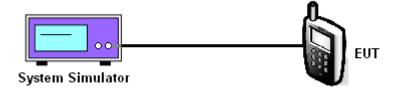
### 3.1.2 Measuring Instruments

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.
- 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	189	251	4132 (Low)	4182	4233			
Onamiei	(Low)	(Mid)	(High)	4102 (2011)	(Mid)	(High)			
Frequency (MHz)	824.2	836.4	848.8	826.4	836.4	846.6			
Conducted Power (dBm)	31.85	31.75	31.68	22.94	22.95	22.57			
Conducted Power (Watts)	1.53	1.50	1.47	0.20	0.20	0.18			

	PCS Band						
Modes	GSM1900 (GSM)		WCDMA Band II (RMC 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	
Conducted Power (dBm)	28.36	28.52	28.85	21.31	21.25	21.43	
Conducted Power (Watts)	0.69	0.71	0.77	0.14	0.13	0.14	

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

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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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 connected to Spectrum Analyzer and Base Station via power divider.
- 2. For GSM/EGPRS operating modes:
  - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
  - b. Set EUT in maximum power output, and triggered the burst signal.
  - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
- 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 %.

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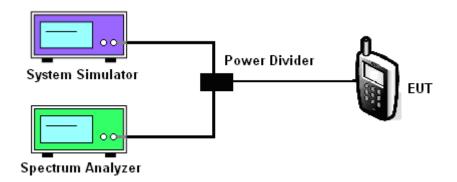
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### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak-to-Average Ratio

PCS Band						
Modes	GSM1900 (GSM)			WCDMA Band II (RMC 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)	0.04	0.05	0.05	2.64	2.96	2.44

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

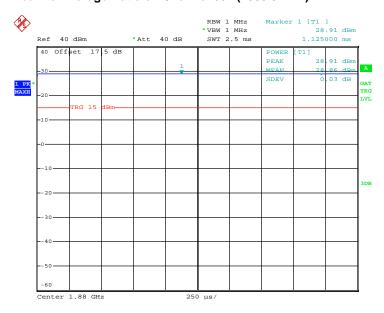
Band: GSM 1900 Test Mode: GSM Link
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### Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 28.NOV.2012 15:08:12

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

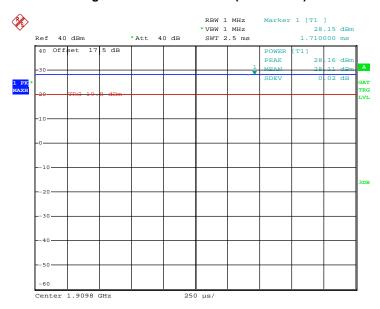


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### Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 28.NOV.2012 15:05:29

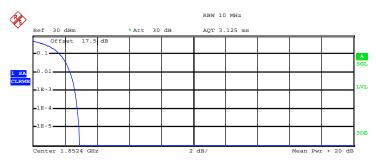
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### FCC RF Test Report

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

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

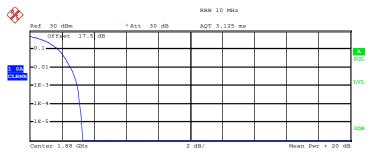


Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \ \ 1$ 

Mean 23.22 dBm 26.13 dBm Peak 2.92 dB Crest 10 % 1.68 dB 1 % 2.32 dB .1 % 2.64 dB .01 % 2.76 dB

Date: 28.NOV.2012 15:41:00

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



Complementary Cumulative Distribution Function (100000 samples) Trace 1

22.98 dBm Peak 26.28 dBm 3.29 dB Crest 10 % 1.76 dB 1 % 2.56 dB 2.96 dB .1 % .01 % 3.12 dB

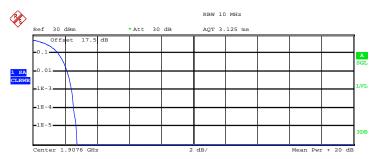
Mean

Date: 28.NOV.2012 15:41:58

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



Complementary Cumulative Distribution Function (100000 samples)  $\mbox{Trace } \ \, 1 \label{eq:Trace}$ 

Mean 22.83 dBm Peak 25.57 dBm Crest 2.74 dB

10 % 1.56 dB 1 % 2.16 dB .1 % 2.44 dB .01 % 2.56 dB

Date: 28.NOV.2012 15:41:30

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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.

Report No.: FG2N2401

### 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 meter 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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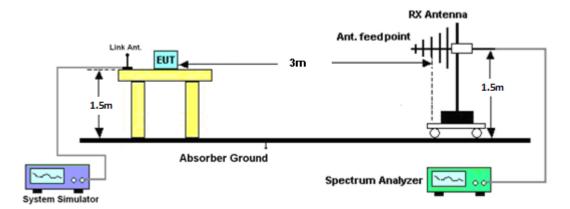
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### 3.3.4 Test Setup



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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	-18.93	-48.12	0.00	-1.08	28.11	0.6471	
836.40	-18.90	-48.28	0.00	-0.93	28.45	0.6998	
848.80	-18.94	-48.35	0.00	-0.76	28.65	0.7328	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	ERP	ERP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)	
824.20	-31.75	-47.97	0.00	-1.08	15.14	0.0327	
836.40	-31.81	-48.01	0.00	-0.93	15.27	0.0337	
848.80	-31.63	-48.05	0.00	-0.76	15.66	0.0368	

	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	-28.42	-48.12	0.00	-1.08	18.62	0.0728
836.40	-28.45	-48.28	0.00	-0.93	18.90	0.0776
846.60	-28.43	-48.35	0.00	-0.76	19.16	0.0824
		Ve	ertical Polarizati	on		
Frequency	Rt	Rs	Ps	Gs	ERP	ERP
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)
826.40	-41.03	-47.97	0.00	-1.08	5.86	0.0039
836.40	-40.99	-48.01	0.00	-0.93	6.09	0.0041
846.60	-41.15	-48.05	0.00	-0.76	6.14	0.0041

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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	-25.46	-51.88	0.00	1.96	28.38	0.6887	
1880.00	-26.15	-52.99	0.00	2.00	28.84	0.7656	
1909.80	-27.15	-54.28	0.00	1.98	29.11	0.8147	
		Ve	ertical Polarizati	on			
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP	
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)	
1850.20	-25.20	-52.13	0.00	1.96	28.89	0.7745	
1880.00	-26.29	-53.17	0.00	2.00	28.88	0.7727	
1909.80	-26.88	-54.13	0.00	1.98	29.23	0.8375	

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
		Hoi	rizontal Polariza	tion			
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)	
1852.40	-31.98	-51.88	0.00	1.96	21.86	0.1535	
1880.00	-32.84	-52.99	0.00	2.00	22.15	0.1641	
1907.60	-34.03	-54.28	0.00	1.98	22.23	0.1671	
		Ve	ertical Polarizati	on			
Frequency         Rt         Rs         Ps         Gs         EIRP         EIRP           (MHz)         (dBm)         (dBm)         (dBi)         (dBm)         (W)							
1852.40	-31.98	-52.13	0.00	1.96	22.11	0.1626	
1880.00	-33.19	-53.17	0.00	2.00	21.98	0.1578	
1907.60	-33.86	-54.13	0.00	1.98	22.25	0.1679	

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#### Occupied Bandwidth and 26dB Bandwidth Measurement 3.4

### **Description of Occupied Bandwidth and 26dB Bandwidth Measurement**

The 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.

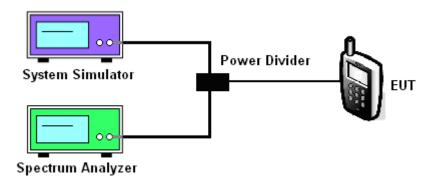
### 3.4.2 Measuring Instruments

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 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 Occupied Bandwidth and 26dB Bandwidth

Cellular Band						
Modes		GSM850 (GSM)				
01	128	189	251			
Channel	(Low)	(Mid)	(High)			
Frequency (MHz)	824.2	836.4	848.8			
99% OBW (KHz)	250.00	248.00	248.00			
26dB BW (KHz)	308.00	318.00	316.00			

PCS Band						
Modes		GSM1900 (GSM)				
Channel	512	661	810			
	(Low)	(Mid)	(High)			
Frequency (MHz)	1850.2	1880	1909.8			
99% OBW (KHz)	248.00	250.00	248.00			
26dB BW (KHz)	306.00	314.00	306.00			

Cellular Band						
Modes	WCD	WCDMA Band V (RMC 12.2Kbps)				
Channel	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4	836.4	846.6			
99% OBW (MHz)	4.16	4.18	4.16			
26dB BW (MHz)	4.70	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	1880	1907.6			
99% OBW (MHz)	4.18	4.16	4.18			
26dB BW (MHz)	4.68	4.68	4.70			

SPORTON INTERNATIONAL (KUNSHAN) INC.

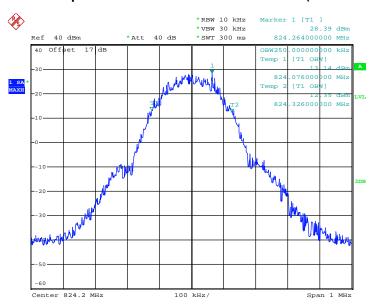
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### 3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

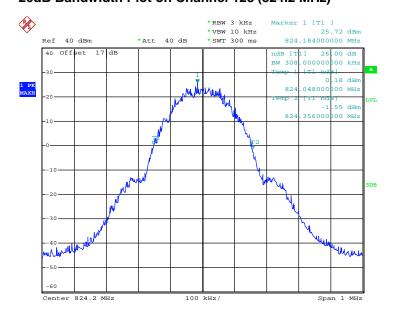
Band :	GSM 850	Test Mode :	GSM Link

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



Date: 28.NOV.2012 11:25:24

### 26dB Bandwidth Plot on Channel 128 (824.2 MHz)



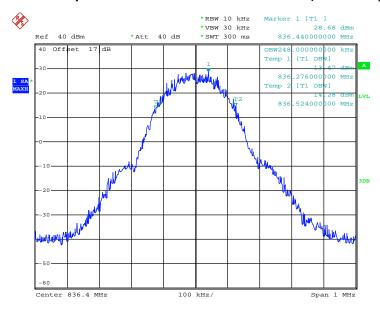
Date: 28.NOV.2012 11:18:55

SPORTON INTERNATIONAL (KUNSHAN) INC.

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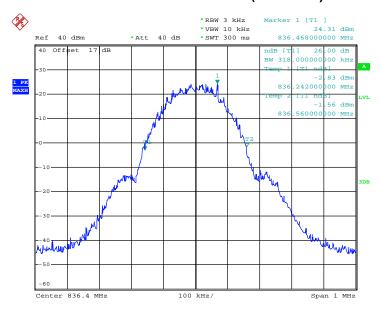






Date: 28.NOV.2012 11:24:20

### 26dB Bandwidth Plot on Channel 189 (836.4 MHz)

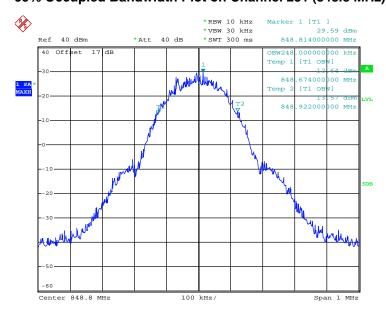


Date: 28.NOV.2012 11:18:04

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 26 of 74
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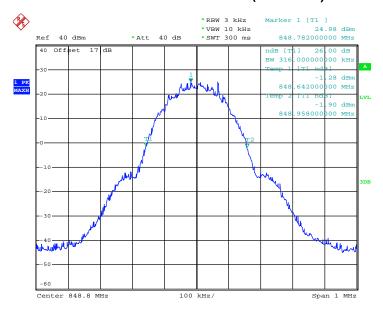


### 99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 28.NOV.2012 11:22:44

### 26dB Bandwidth Plot on Channel 251 (848.8 MHz)



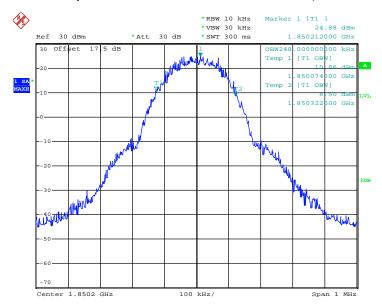
Date: 28.NOV.2012 11:20:39

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 27 of 74
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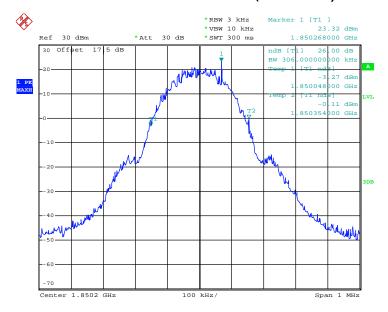
Band: GSM 1900 Test Mode: GSM Link

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



Date: 28.NOV.2012 14:46:09

### 26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 28.NOV.2012 14:40:31

SPORTON INTERNATIONAL (KUNSHAN) INC.

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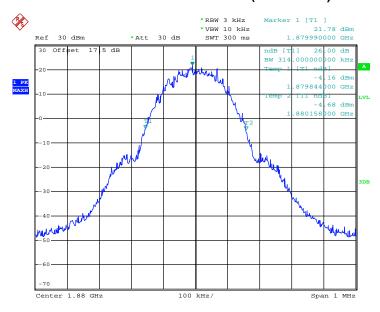


### 99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 28.NOV.2012 14:44:27

### 26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

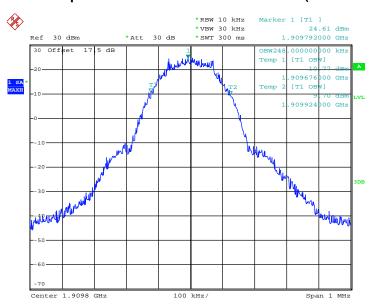


Date: 28.NOV.2012 14:39:44

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 29 of 74
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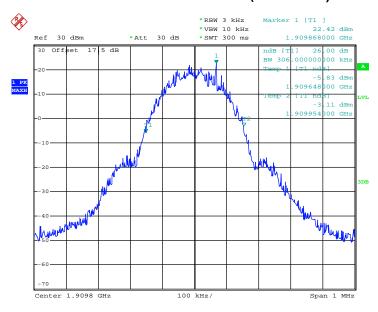


### 99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 28.NOV.2012 14:43:24

### 26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



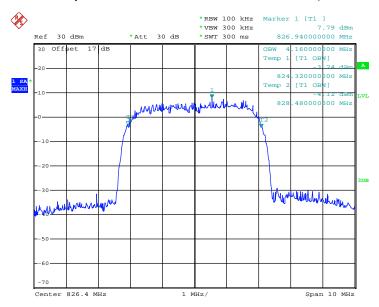
Date: 28.NOV.2012 14:41:08

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 30 of 74
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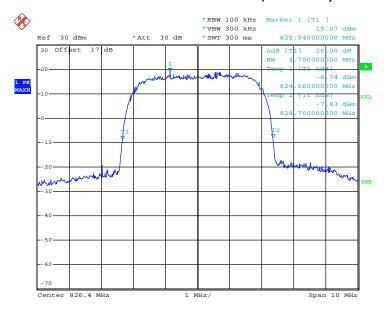
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link

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



Date: 28.NOV.2012 16:12:38

### 26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

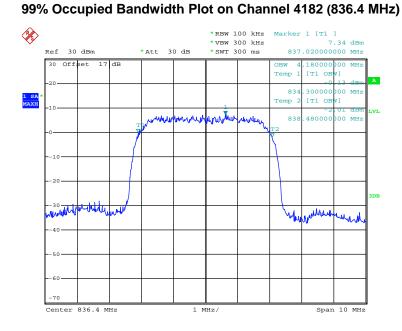


Date: 28.NOV.2012 16:09:50

SPORTON INTERNATIONAL (KUNSHAN) INC.

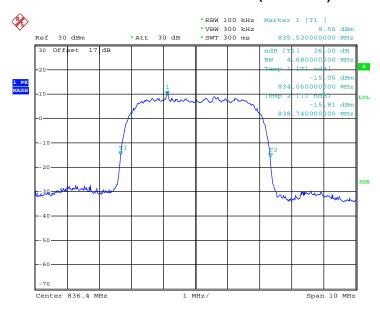
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 31 of 74
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Date: 28.NOV.2012 16:12:00

### 26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

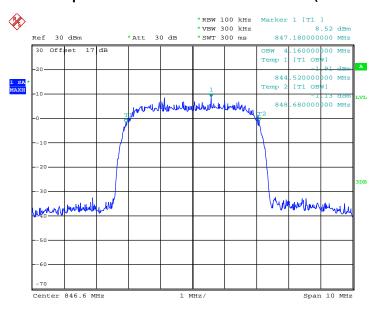


Date: 28.NOV.2012 16:10:29

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 32 of 74
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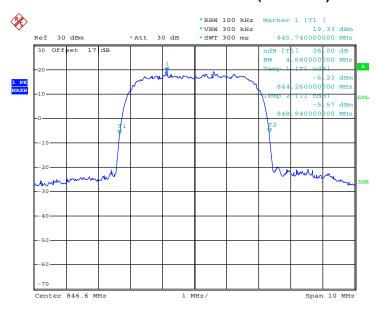


### 99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 28.NOV.2012 16:13:29

#### 26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



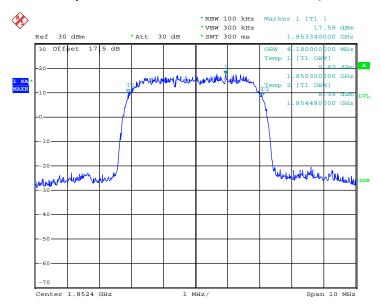
Date: 28.NOV.2012 16:09:17

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 33 of 74
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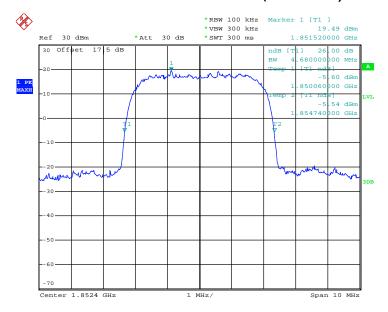
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link

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



Date: 28.NOV.2012 15:23:47

### 26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



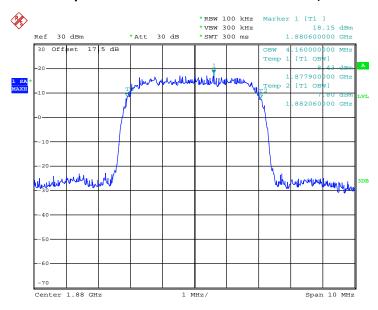
Date: 28.NOV.2012 15:21:47

SPORTON INTERNATIONAL (KUNSHAN) INC.

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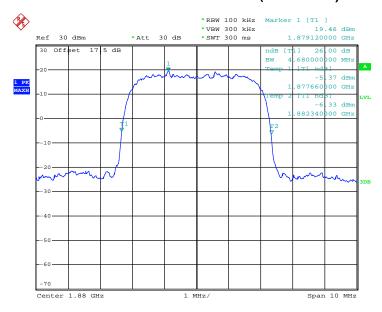






Date: 28.NOV.2012 15:25:55

### 26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

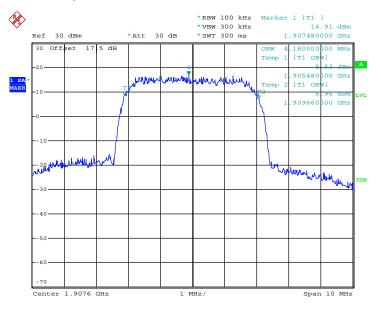


Date: 28.NOV.2012 15:18:35

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 35 of 74
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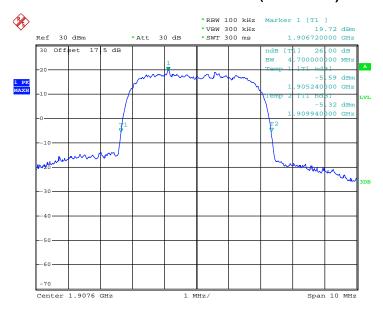


### 99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 28.NOV.2012 15:24:54

### 26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 28.NOV.2012 15:21:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 36 of 74
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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.

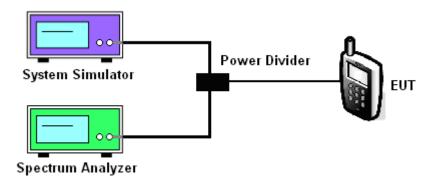
#### 3.5.2 Measuring Instruments

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.
- 2. The band edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

#### 3.5.4 Test Setup



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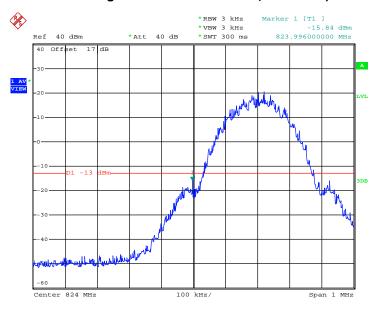
Report Version : Rev. 01



3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-15.59dBm	Measurement Value :	-15.84dBm

#### Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 28.NOV.2012 11:40:35

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

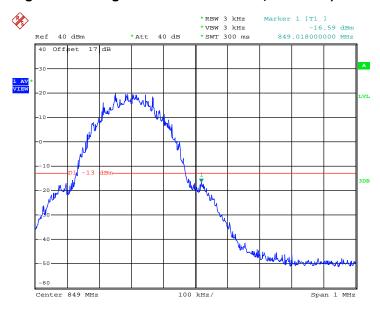
For example, -15.84dBm + 0.25dB = -15.59dBm

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Band :	GSM850	Test Mode :	GSM Link
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-16.34dBm	Measurement Value :	-16.59dBm

#### Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 28.NOV.2012 11:42:07

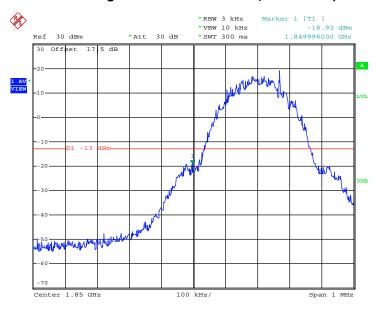
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-18.72dBm	Measurement Value :	-18.92dBm

#### Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 28.NOV.2012 14:56:58

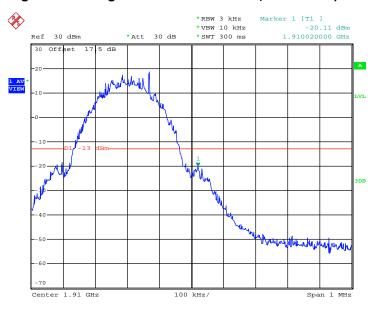
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-19.91dBm	Measurement Value :	-20.11dBm

#### Higher Band Edge Plot on Channel 810 (1909.8 MHz)



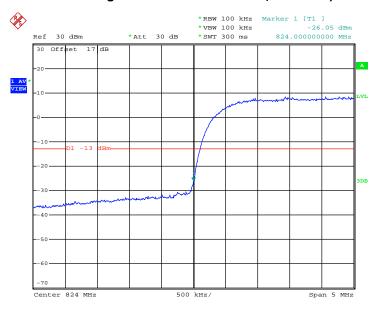
Date: 28.NOV.2012 14:59:03

- 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 :	-3.28dB	Maximum 26dB Bandwidth :	4.70MHz
Band Edge :	-29.33dBm	Measurement Value :	-26.05dBm

#### Lower Band Edge Plot on Channel 4132 (826.4 MHz)



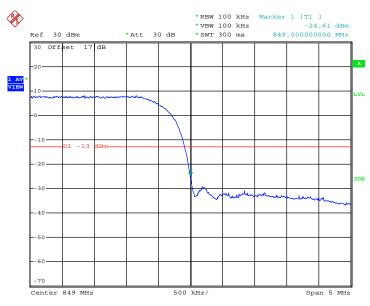
Date: 28.NOV.2012 16:23:27

- 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 :	-3.28dB	Maximum 26dB Bandwidth :	4.70MHz
Band Edge :	-27.89dBm	Measurement Value :	-24.61dBm

#### Higher Band Edge Plot on Channel 4233 (846.6 MHz)



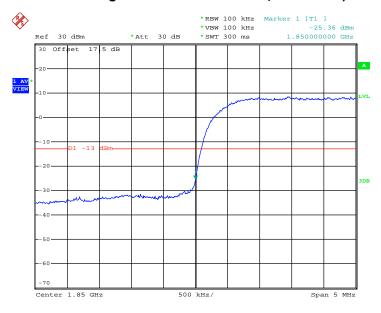
Date: 28.NOV.2012 16:24:02

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

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.70MHz
Band Edge :	-28.64dBm	Measurement Value :	-25.36dBm

#### Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



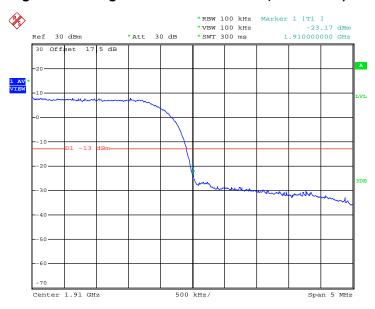
Date: 28.NOV.2012 15:36:33

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

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
Correction Factor :	-3.28dB	Maximum 26dB Bandwidth :	4.70MHz
Band Edge :	-26.45dBm	Measurement Value :	-23.17dBm

#### Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 28.NOV.2012 15:36:01

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

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### 3.6 Conducted Spurious Emission Measurement

#### 3.6.1 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 10<sup>th</sup> harmonic.

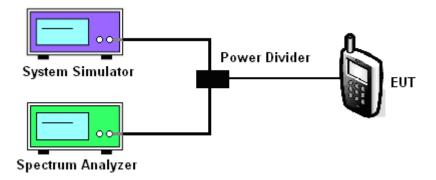
#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 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.
- 3. The conducted spurious emission for the whole frequency range was taken.

#### 3.6.4 Test Setup



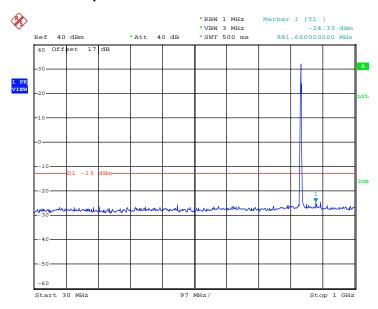
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 46 of 74
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

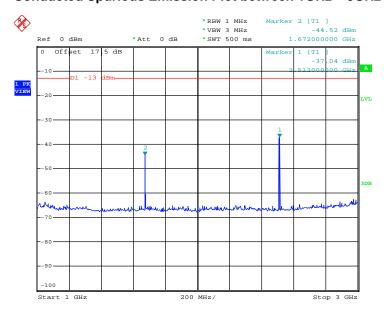
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link	Frequency:	836.4 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 28.NOV.2012 11:48:16

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



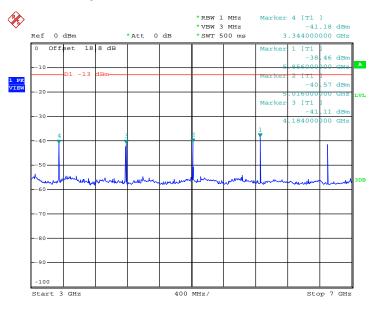
Date: 28.NOV.2012 16:37:14

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 47 of 74
Report Issued Date : Dec. 17, 2012
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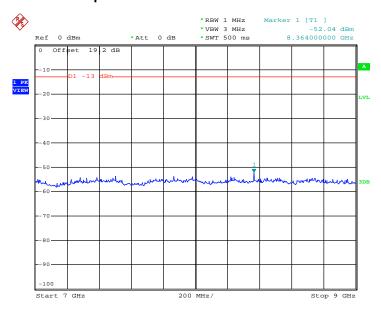
Report No. : FG2N2401

#### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 28.NOV.2012 16:36:14

#### Conducted Spurious Emission Plot between 7GHz ~ 9GHz



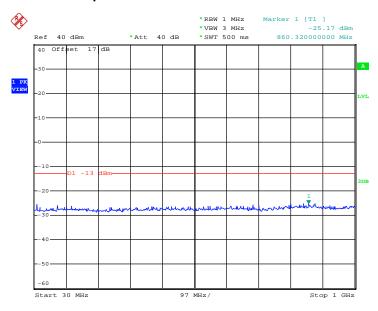
Date: 28.NOV.2012 16:35:03

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 48 of 74
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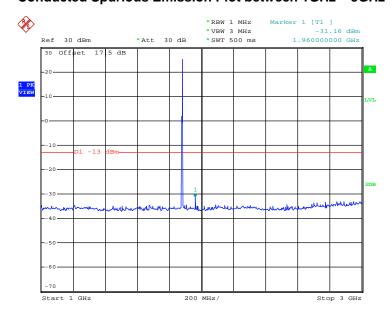
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link	Frequency:	1880.0 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 28.NOV.2012 15:10:33

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 28.NOV.2012 15:11:42

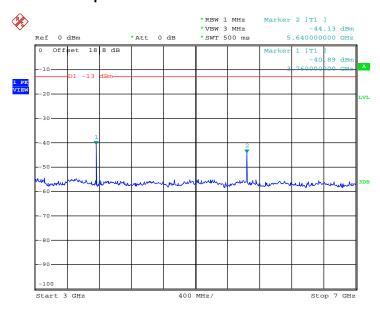
SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 49 of 74
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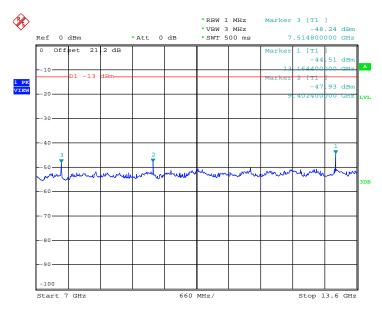
Report No.: FG2N2401

#### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 28.NOV.2012 15:54:38

#### Conducted Emission Plot between 7GHz ~ 13.6GHz



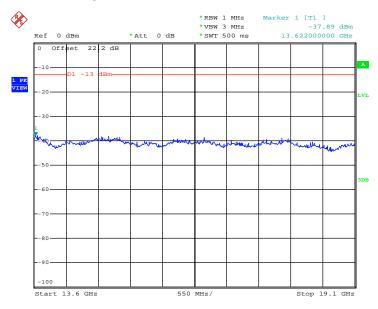
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TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 50 of 74
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#### Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



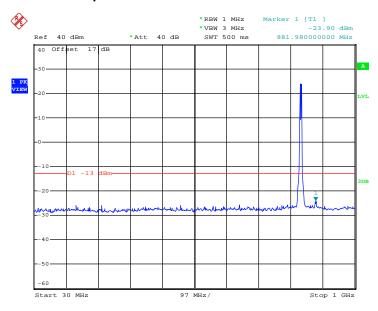
Date: 28.NOV.2012 15:52:06

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 51 of 74
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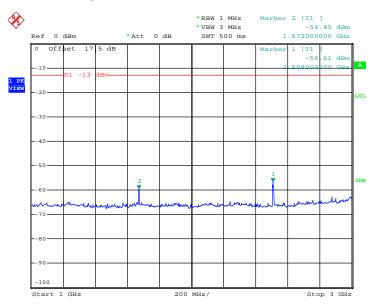
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link	Frequency:	836.4 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 28.NOV.2012 16:28:40

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 28.NOV.2012 16:30:59

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 52 of 74 Report Issued Date : Dec. 17, 2012

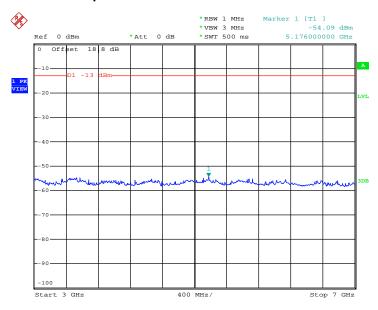
Report No.: FG2N2401

Report Version : Rev. 01



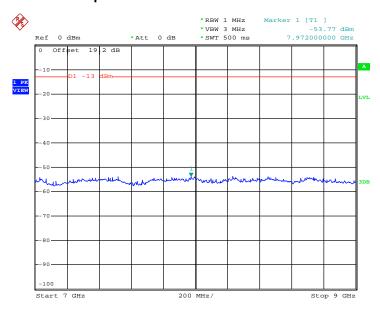
Report No. : FG2N2401

#### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 28.NOV.2012 16:31:48

## Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 28.NOV.2012 16:32:56

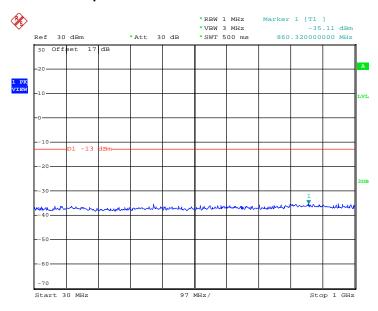
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 53 of 74
Report Issued Date : Dec. 17, 2012

Report Version : Rev. 01



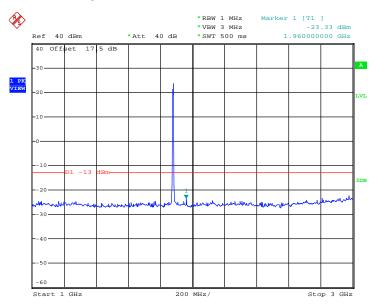
Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link	Frequency:	1880.0 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 28.NOV.2012 15:44:34

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz

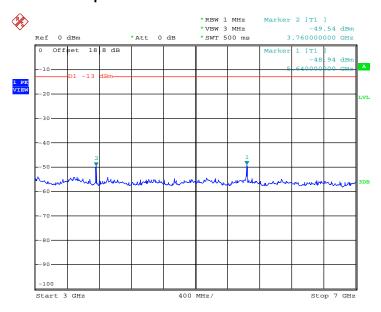


Date: 28.NOV.2012 15:45:20

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 54 of 74
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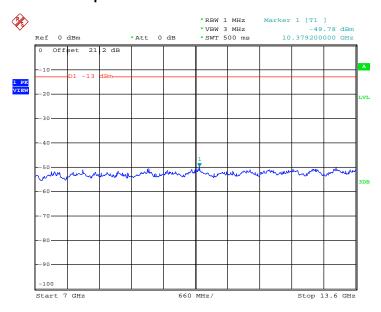


#### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 28.NOV.2012 15:47:40

#### Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 28.NOV.2012 15:49:06

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 55 of 74
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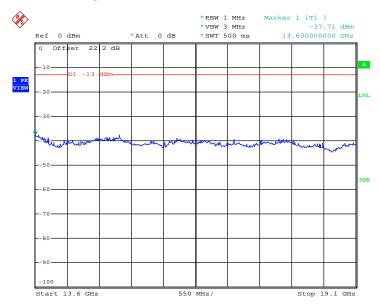
Report No.: FG2N2401

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Report No.: FG2N2401

#### Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 28.NOV.2012 15:49:58

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## 3.7 Field Strength of Spurious Radiation Measurement

#### 3.7.1 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.: FG2N2401

#### 3.7.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.7.3 Test Procedures

- 1. 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.

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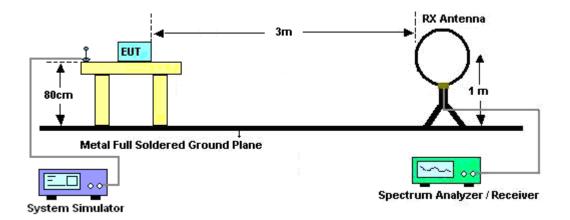
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15



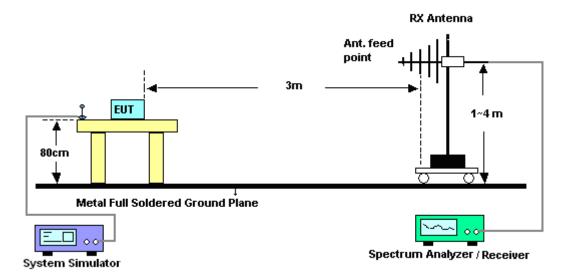
Report No. : FG2N2401

#### 3.7.4 Test Setup

#### For radiated emissions below 30MHz



#### For radiated emissions from 30MHz to 1GHz



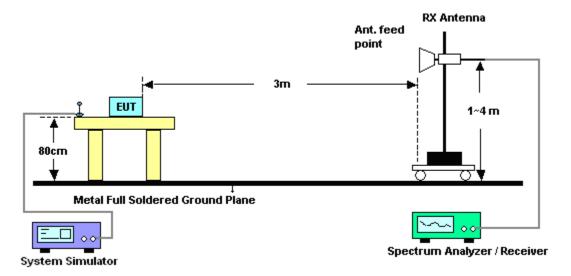
SPORTON INTERNATIONAL (KUNSHAN) INC.

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#### For radiated emissions above 1GHz



#### 3.7.5 Test Results of Radiated Emissions (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.

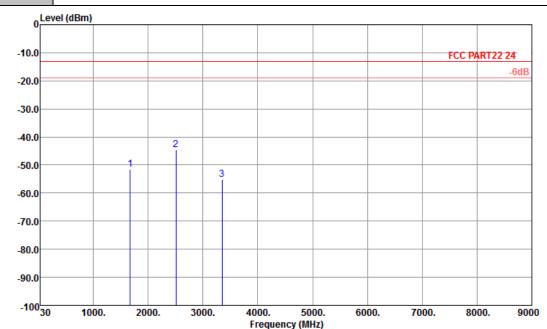
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 59 of 74
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3.7.6 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	21~22°C				
Test Mode :	GSM Link	Relative Humidity :	45~46%				
Test Engineer :	Allen Cheng	Polarization :	Horizontal				
Damark.	Source amine in a within 20 4000MHz were found more than 20dD below limit line						

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



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

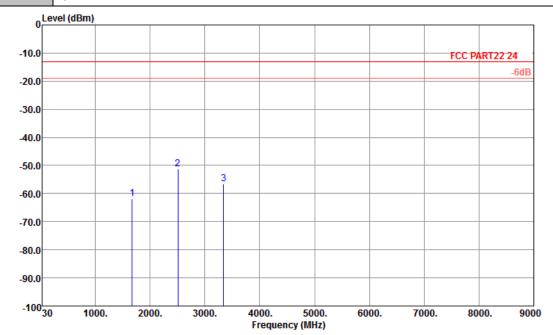
Project: (FG) 2N2401

Plan : 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	-51.44	-13	-38.44	-49.86	-52.09	0.57	3.37	Н	Pass
2510	-44.60	-13	-31.60	-48.15	-46.83	0.78	5.16	Н	Pass
3346	-55.19	-13	-42.19	-57.13	-58.83	0.87	6.66	Н	Pass

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLUDASH32 Page Number : 60 of 74
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Band :	GSM850	Temperature :	21~22°C
Test Mode :	GSM Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Vertical
Domark :	Spurious amissions within 20 1000MHz	were found more the	n 20dP holow limit line



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

Project : (FG) 2N2401

Plan : E2

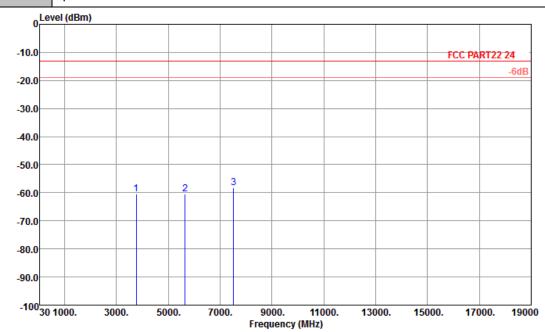
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-61.80	-13	-48.80	-57.45	-62.45	0.57	3.37	V	Pass
2510	-51.27	-13	-38.27	-54.38	-53.50	0.78	5.16	V	Pass
3344	-56.49	-13	-43.49	-58.47	-60.13	0.87	6.66	V	Pass

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Report No.: FG2N2401

Report Version : Rev. 01

Band :	GSM1900	Temperature :	21~22°C
Test Mode :	GSM Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Horizontal
_			



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

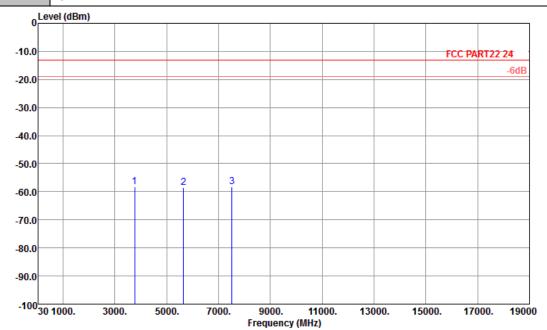
Project: (FG) 2N2401

Plan : E2

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	-60.43	-13	-47.43	-61.40	-66.81	0.78	7.16	Н	Pass
5640	-60.32	-13	-47.32	-64.50	-68.86	1.04	9.58	Н	Pass
7520	-58.21	-13	-45.21	-63.34	-68.32	1.35	11.46	Н	Pass

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Band :	GSM1900	Temperature :	21~22°C
Test Mode :	GSM Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Vertical
D	0	(	OO ID hada Baddisa



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

Project: (FG) 2N2401

Plan : E2

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	-58.29	-13	-45.29	-59.66	-64.67	0.78	7.16	V	Pass
5640	-58.42	-13	-45.42	-61.64	-66.96	1.04	9.58	V	Pass
7520	-58.22	-13	-45.22	-62.71	-68.33	1.35	11.46	V	Pass

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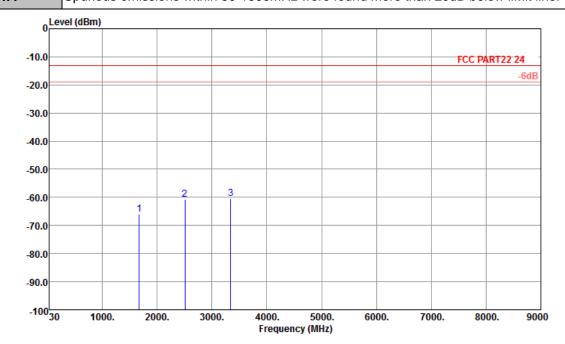


Band: WCDMA Band V Temperature: 21~22°C

Test Mode: RMC 12.2Kbps Link Relative Humidity: 45~46%

Test Engineer: Allen Cheng Polarization: Horizontal

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



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 HORIZONTAL

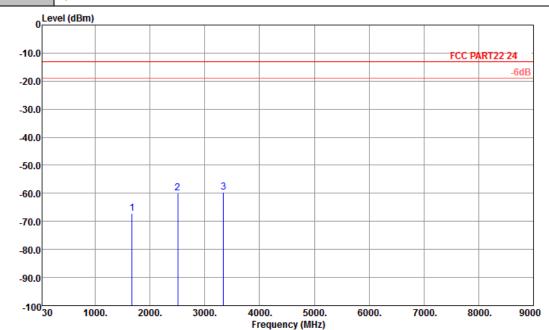
Project: (FG) 2N2401

Plan : 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	-65.93	-13	-52.93	-61.71	-66.58	0.57	3.37	Н	Pass
2508	-60.84	-13	-47.84	-63.09	-63.07	0.78	5.16	Н	Pass
3344	-60.32	-13	-47.32	-62.26	-63.96	0.87	6.66	Н	Pass

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Band :	WCDMA Band V	Temperature :	21~22°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Vertical
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Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

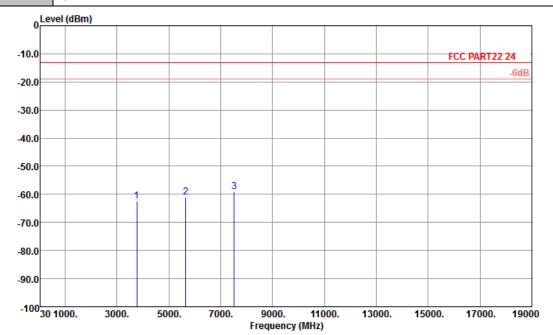
Project: (FG) 2N2401

Plan : 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	-67.10	-13	-54.10	-62.75	-67.75	0.57	3.37	V	Pass
2508	-59.80	-13	-46.80	-62.91	-62.03	0.78	5.16	V	Pass
3344	-59.59	-13	-46.59	-61.57	-63.23	0.87	6.66	V	Pass

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Band :	WCDMA Band II	Temperature :	21~22°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	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 24 HF EIRP FACTOR-09020 HORIZONTAL

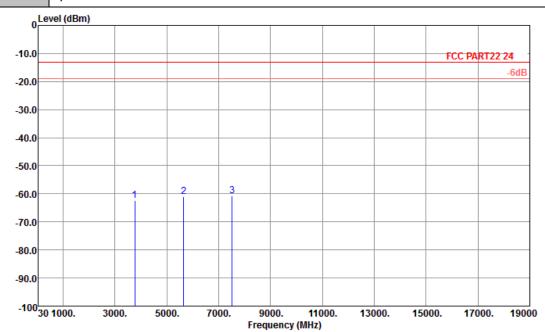
Project: (FG) 2N2401

Plan : E2

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	-62.32	-13	-49.32	-63.29	-68.70	0.78	7.16	Н	Pass
5640	-60.88	-13	-47.88	-65.06	-69.42	1.04	9.58	Н	Pass
7520	-59.12	-13	-46.12	-64.25	-69.23	1.35	11.46	Н	Pass

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Band :	WCDMA Band II	Temperature :	21~22°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Allen Cheng	Polarization :	Vertical
			•



Site : 03CH01-KS

Condition : FCC PART22 24 HF EIRP FACTOR-09020 VERTICAL

Project : (FG) 2N2401

Plan : E2

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	-62.32	-13	-49.32	-63.69	-68.70	0.78	7.16	V	Pass
5640	-60.98	-13	-47.98	-64.2	-69.52	1.04	9.58	V	Pass
7520	-60.69	-13	-47.69	-65.18	-70.80	1.35	11.46	V	Pass

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## 3.8 Frequency Stability Measurement

#### 3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

#### 3.8.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.8.3 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 before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
- 4. If the EUT cannot be turned on at -30°C, the testing lowest temperature will be raised in 10°C step until the EUT can be turned on.

#### 3.8.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.



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## 3.8.5 Test Setup



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## 3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm):	2.5	Frequency:	836.4 MHz

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

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

	GS			
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	40	0.02		
-20	43	0.02		
-10	45	0.02		
0	45	0.02		
10	42	0.02	PASS	
20	37	0.02		
30	42	0.02		
40	48	0.03		
50	47	0.02		

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

	RMC 12	RMC 12.2Kbps		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result	
-30	-6	-0.01		
-20	8	0.01		
-10	-7	-0.01		
0	7	0.01		
10	6	0.01	PASS	
20	7	0.01		
30	-6	-0.01		
40	-5	-0.01		
50	-6	-0.01		

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

	RMC 12	2.2Kbps	
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-14	-0.01	
-20	-13	-0.01	
-10	-15	-0.01	
0	14	0.01	
10	15	0.01	PASS
20	15	0.01	
30	12	0.01	
40	-11	-0.01	
50	-12	-0.01	

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## 3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH189	GSM	3.8	-16	-0.02	2.5	PASS
		BEP	-9	-0.01		
		4.2	11	0.01		
GSM 1900 CH661	GSM	3.8	38	0.02		
		BEP	37	0.02		
		4.2	41	0.02		
WCDMA Band V CH4182	RMC 12.2Kbps	3.8	5	0.01		
		BEP	6	0.01		
		4.2	6	0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	3.8	9	0.00		
		BEP	-8	0.00		
		4.2	-10	-0.01		

#### Note:

- 1. Normal Voltage = 3.8V.
- 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. 30, 2011	Nov. 28, 2012~ Dec. 13, 2012	Dec. 29, 2012	Conducted (TH01-KS)
System Simulator	R&S	CMU200	837587/066	2G Full-Band	Dec. 30, 2011	Nov. 28, 2012~ Dec. 13, 2012	Dec. 29, 2012	Conducted (TH01-KS)
DC Power Supply	GWINSTEK	GPS-3030D	E1884515	N/A	Aug. 22, 2012	Nov. 28, 2012~ Dec. 13, 2012	Aug. 21, 2013	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	N/A	Dec. 30, 2011	Nov. 28, 2012~ Dec. 13, 2012	Dec. 29, 2012	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 08, 2012	Dec. 13, 2012	Nov. 07, 2013	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Dec. 13, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 07, 2012	Dec. 13, 2012	Dec. 06, 2013	Radiation (03CH01-KS)
Double Ridge Horn	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Dec. 13, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1GHz	Jun. 01, 2012	Dec. 13, 2012	May 31, 2013	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Dec. 13, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	9170249	15GHz-40GHz	Oct. 10, 2012	Dec. 13, 2012	Oct. 09, 2013	Radiation (03CH01-KS)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Dec. 13, 2012	Jul. 02, 2014	Radiation (03CH01-KS)
System Simulator	R&S	CMU200	116456	Full-Band	Sep. 19, 2012	Dec. 13, 2012	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

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

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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# Appendix A. Photographs of EUT

Please refer to Sporton report number EP2N2401 as below.

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