FCC RF Test Report

APPLICANT : CT Asia EQUIPMENT : Tablet PC

BRAND NAME : BLU

MODEL NAME : Life View 8.0

FCC ID : YHLBLULIFEVIEW8

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jul. 22, 2014 and testing was completed on Aug. 28, 2014. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and has been in 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: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

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

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Report Issued Date : Jan. 04, 2015

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Report No. : FG472201

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG472201	Rev. 01	Initial issue of report	Jan. 04, 2015

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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	-
0.0	§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)	Occupied Bandwidth	N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log ₁₀ (P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a)	Conducted Spurious Emission	< 43+10log ₁₀ (P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 27.70 dB at 5854.000 MHz
3.8	§2.1055 §22.355 §2.1055 §24.235	Frequency Stability for Temperature & Voltage	< 2.5 ppm Within Authorized Band	· 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

1.2 Manufacturer

Ragentek Technology

D10/D11, No.3188, Xiupu Road, PuDong District, Shanghai

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Tablet PC					
Brand Name	BLU					
Model Name	Life View 8.0					
FCC ID	YHLBLULIFEVIEW8					
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+ (Downlink Only)/ WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0+ EDR/Bluetooth v4.0 LE					
HW Version	V2.0					
SW Version	BLU_L810a_V04_GENERIC					
EUT Stage	Production Unit					

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 subjective to this standard

Product Specification subjective to this standard					
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz 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				
Maximum Output Power to Antenna	GSM850 : 31.81 dBm GSM1900 : 29.11 dBm WCDMA Band V : 22.27 dBm WCDMA Band II : 22.75 dBm				
Antenna Type	PIFA Antenna				
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+:16QAM (Downlink Only)				

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1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.0819	0.0179 ppm	246KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.0272	0.0179 ppm	254KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0102	0.0167 ppm	4M20F9W
Part 24	GSM1900 GSM	GMSK	0.0910	0.0074 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.0527	0.0085 ppm	252KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.0252	0.0064 ppm	4M18F9W

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1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.					
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China					
Test Site Location	TEL: +86-0512-5790-0158					
	FAX: +86-0512-5790-0958					
Test Site No.		Sporton Site No.	FCC Registration No.			
lest site NO.	TH01-KS	03CH01-KS	OTA01-KS	149928		

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

Remark:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated from 30 MHz to 10th harmonic

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes								
Band	Radiated TCs	Conducted TCs						
GSM 850	■ GSM Link	■ GSM Link						
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link						
CSM 1000	■ GSM Link	■ GSM Link						
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link						
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

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Conducted Power Measurement Results:

Conducted Power (*Unit: dBm)								
Band		GSM850		GSM1900				
Channel	128	189	251	512	661	810		
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	<mark>31.81</mark>	31.75	31.68	29.01	29.04	<mark>29.11</mark>		
GPRS class 8	31.75	31.68	31.60	28.98	28.99	29.09		
GPRS class 10	28.83	28.77	28.73	25.72	25.77	25.88		
GPRS class 11	27.90	27.84	27.80	24.75	24.80	24.90		
GPRS class 12	26.86	26.77	26.68	23.65	23.67	23.78		
EGPRS class 8	27.35	27.38	27.35	26.48	26.50	26.58		
EGPRS class 10	26.29	26.28	26.15	25.39	25.29	25.37		
EGPRS class 11	24.07	24.06	23.93	23.22	23.18	23.19		
EGPRS class 12	22.81	22.90	22.70	22.00	21.90	22.00		

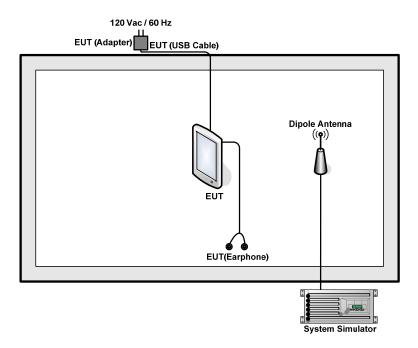
Conducted Power (*Unit: dBm)								
Band	W	/CDMA Band	V	W	CDMA Band	II		
Channel	4132	4182	4233	9262	9400	9538		
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6		
AMR 12.2Kbps	22.21	22.09	22.25	22.73	22.55	22.59		
RMC 12.2Kbps	22.23	22.10	<mark>22.27</mark>	22.75	22.58	22.61		
HSDPA Subtest-1	21.25	21.09	21.30	21.75	21.61	21.62		
HSDPA Subtest-2	21.18	21.13	21.31	21.77	21.60	21.66		
HSDPA Subtest-3	20.78	20.66	20.85	21.27	21.14	21.17		
HSDPA Subtest-4	20.76	20.67	20.82	21.26	21.12	21.17		
HSUPA Subtest-1	18.44	18.55	18.62	19.17	19.27	19.27		
HSUPA Subtest-2	18.47	18.55	18.67	19.21	19.27	19.27		
HSUPA Subtest-3	19.46	19.56	19.65	20.18	20.21	20.26		
HSUPA Subtest-4	17.93	17.99	18.18	18.66	18.79	18.76		
HSUPA Subtest-5	19.90	19.96	20.10	20.62	20.69	20.74		

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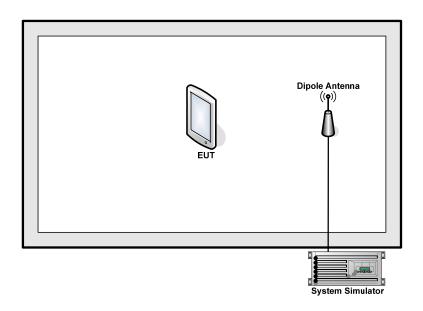


2.2 Connection Diagram of Test System

<22 Tx Mode>



<24 Tx Mode>



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2.3 Support Unit used in test configuration

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	GW INSTEK	GPD-2303S	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 RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 6 dB and a 10dB attenuator.

Example:

Offset
$$(dB) = RF$$
 cable loss (dB) + attenuator factor (dB) .
= 6 + 10 = 16 (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 system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

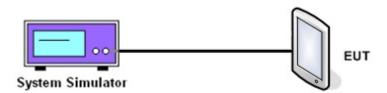
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. 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)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)			
Channel	Channel (Low)		251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6	
Conducted Power (dBm)	31.81	31.75	31.68	27.35	27.38	27.35	22.23	22.10	22.27	

	PCS Band								
Modes	GSM1900 (GSM)			GSM19	000 (EDGE o	lass 8)	WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 661 810 (Low) (Mid) (High)			9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Conducted Power (dBm)	29.01	29.04	29.11	26.48	26.50	26.58	22.75	22.58	22.61

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.

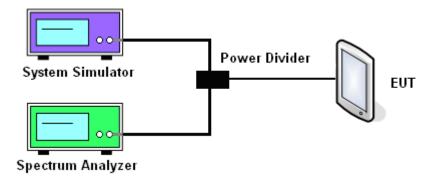
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on 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 has synchronized with the spectrum analyzer.
- For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. 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

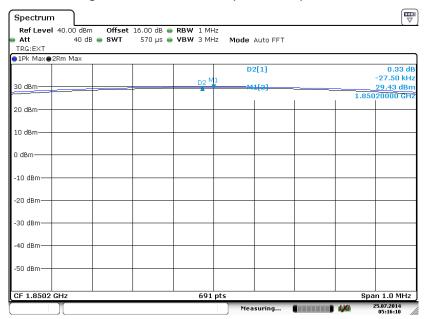
	PCS Band								
Modes	GSM1900 (GSM)			GSM19	00 (EDGE d	class 8)	WCDMA Band II (RMC 12.2Kbps)		
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to-Average Ratio (dB)	0.33	0.34	0.34	3.06	3.04	2.80	2.92	2.92	2.80

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

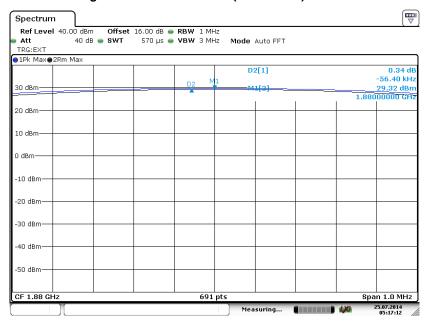
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
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Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 25 JUL 2014 05:16:10

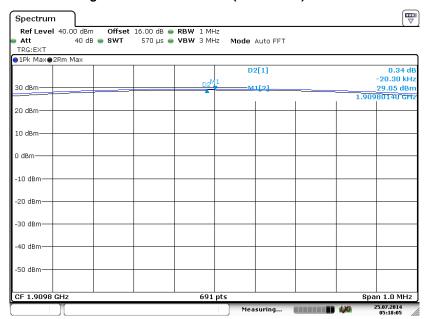
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 25 JUL 2014 05:17:11

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

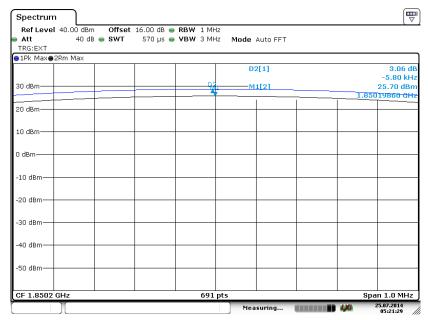


Date: 25 JUL 2014 05:18:06

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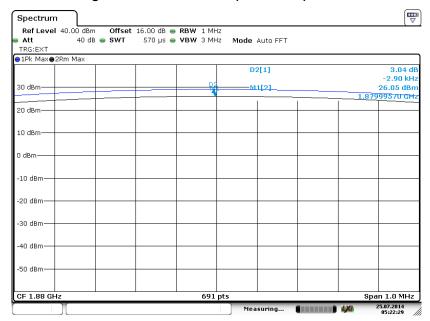
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 25 JUL 2014 05:21:29

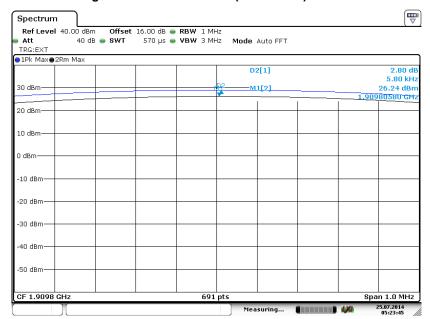
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 25 JUL 2014 05:22:30

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

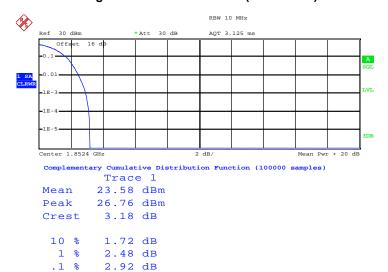


Date: 25 JUL 2014 05:23:45

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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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

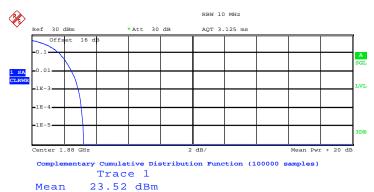


Date: 25.JUL.2014 04:33:18

.01 %

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

3.12 dB



Peak 26.76 dBm Crest 3.23 dB 10 % 1.72 dB 1 % 2.48 dB .1 % 2.92 dB

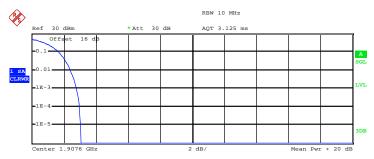
.01 % 3.08 dB

Date: 25.JUL.2014 04:34:05

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 23.84 dBm
Peak 26.90 dBm
Crest 3.05 dB

10 % 1.68 dB 1 % 2.40 dB .1 % 2.80 dB .01 % 2.96 dB

Date: 25.JUL.2014 04:34:54

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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 v02r02. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

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3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- The testing follows FCC KDB 971168 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
- 2. The EUT was placed on a turntable 1.5 meters high in a fully anechoic chamber.
- 3. The EUT was placed 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 KDB 971168 D01.
- 5. The table was rotated 360 degrees to determine the position of the highest radiated power.
- The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 7. Taking the record of maximum ERP/EIRP.
- 8. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. The conducted power at the terminal of the dipole antenna is measured.
- 10. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 11. 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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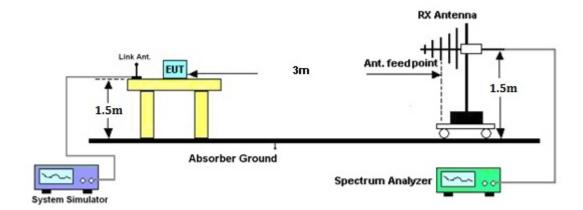
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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)	Rt Rs Ps Gs ERP ERP (dBm) (dBm) (dBd) (dBm) (W)							
824.20	-28.54	-48.12	0.00	-1.08	18.50	0.0707		
836.40	-28.68	-48.28	0.00	-0.93	18.67	0.0736		
848.80	-29.16	-48.35	0.00	-0.76	18.43	0.0696		
		Ve	ertical Polarizati	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)		
824.20	-27.76	-47.97	0.00	-1.08	19.13	0.0819		
836.40	-28.08	-48.01	0.00	-0.93	19.00	0.0795		
848.80	-28.76	-48.05	0.00	-0.76	18.53	0.0713		

	GSM850 (EDGE class 8) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-33.49	-48.12	0.00	-1.08	13.55	0.0226		
836.40	-33.76	-48.28	0.00	-0.93	13.59	0.0229		
848.80	-34.28	-48.35	0.00	-0.76	13.31	0.0214		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	ERP	ERP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)		
824.20	-32.54	-47.97	0.00	-1.08	14.35	0.0272		
836.40	-33.45	-48.01	0.00	-0.93	13.63	0.0231		
848.80	-33.87	-48.05	0.00	-0.76	13.42	0.0220		

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)	Rt Rs Ps Gs ERP ERP (dBm) (dBm) (dBd) (dBm) (W)							
826.40	-37.51	-48.12	0.00	-1.08	9.53	0.0090		
836.40	-37.90	-48.28	0.00	-0.93	9.45	0.0088		
846.60	-38.36	-48.35	0.00	-0.76	9.23	0.0084		
		Ve	ertical Polarization	on				
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)		
826.40	-36.82	-47.97	0.00	-1.08	10.07	0.0102		
836.40	-37.58	-48.01	0.00	-0.93	9.50	0.0089		
846.60	-38.05	-48.05	0.00	-0.76	9.24	0.0084		

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency (MHz)	Rt Rs Ps Gs EIRP EIRP (dBm) (dBm) (dBi) (dBm) (W)							
1850.20	-35.21	-51.88	0.00	1.96	18.63	0.0729		
1880.00	-37.24	-52.99	0.00	2.00	17.75	0.0595		
1909.80	-39.19	-54.28	0.00	1.98	17.07	0.0509		
		Ve	ertical Polarizati	on		_		
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1850.20	-34.50	-52.13	0.00	1.96	19.59	0.0910		
1880.00	-35.92	-53.17	0.00	2.00	19.25	0.0842		
1909.80	-37.07	-54.13	0.00	1.98	19.04	0.0801		

	GSM1900 (EDGE class 8) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-37.70	-51.88	0.00	1.96	16.14	0.0411		
1880.00	-39.77	-52.99	0.00	2.00	15.22	0.0332		
1909.80	-41.54	-54.28	0.00	1.98	14.72	0.0297		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-36.87	-52.13	0.00	1.96	17.22	0.0527		
1880.00	-38.56	-53.17	0.00	2.00	16.61	0.0458		
1909.80	-39.77	-54.13	0.00	1.98	16.34	0.0431		

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	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)								
1852.40	-41.11	-51.88	0.00	1.96	12.73	0.0187			
1880.00	-43.41	-52.99	0.00	2.00	11.58	0.0144			
1907.60	-45.43	-54.28	0.00	1.98	10.83	0.0121			
		Ve	ertical Polarization	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)			
1852.40	-40.08	-52.13	0.00	1.96	14.01	0.0252			
1880.00	-41.99	-53.17	0.00	2.00	13.18	0.0208			
1907.60	-43.37	-54.13	0.00	1.98	12.74	0.0188			

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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.

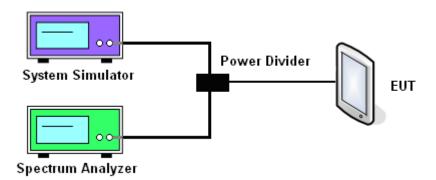
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold.
- 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.

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)			GSM8	50 (EDGE class 8)		
a	128	189	251	128	189	251	
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	246.00	244.00	246.00	250.00	254.00	246.00	
26dB BW (kHz)	302.00	314.00	318.00	314.00	316.00	318.00	

PCS Band							
Modes	GS	GSM1900 (GSM) GSM1900 (EDGE class 8)					
Channel	512 (Low)			512 (Low)	661 (Mid)	810 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	
99% OBW (kHz)	242.00	248.00	246.00	244.00	252.00	250.00	
26dB BW (kHz)	306.00	312.00	312.00	314.00	314.00	320.00	

Cellular Band									
Modes	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	4.20						
26dB BW (MHz)	4.72	4.72 4.72 4.74							

PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.18	4.18	4.18
26dB BW (MHz)	4.70	4.72	4.72

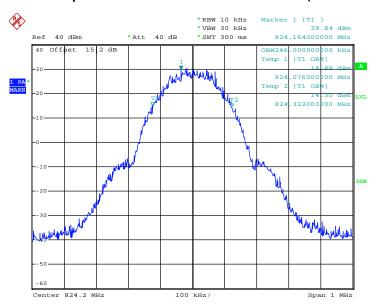
SPORTON INTERNATIONAL (KUNSHAN) INC.

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

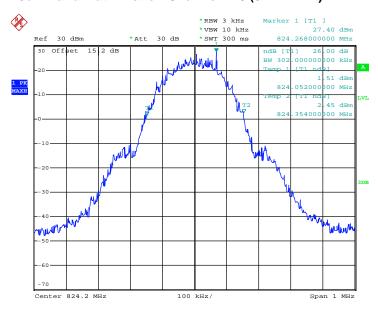
Band: GSM 850	Test Mode :	GSM Link (GMSK)
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99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 25.JUL.2014 02:16:52

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

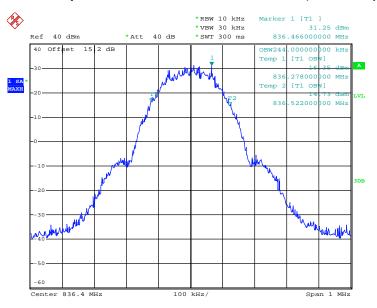


Date: 25.JUL.2014 02:03:39

SPORTON INTERNATIONAL (KUNSHAN) INC.

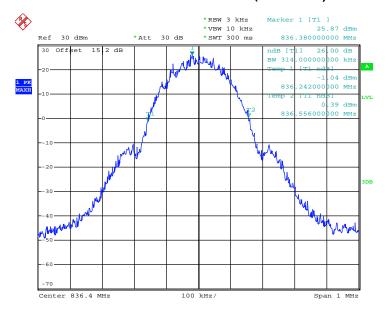
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 25.JUL.2014 02:20:19

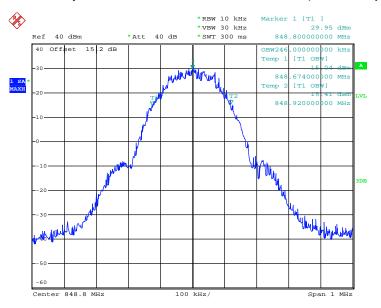
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 25.JUL.2014 02:04:05

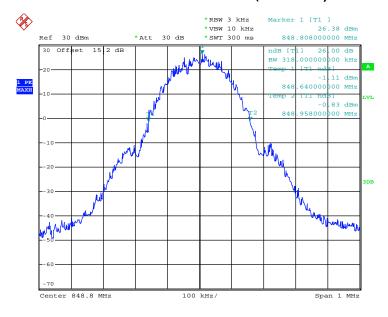
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 32 of 93
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 25.JUL.2014 02:21:56

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

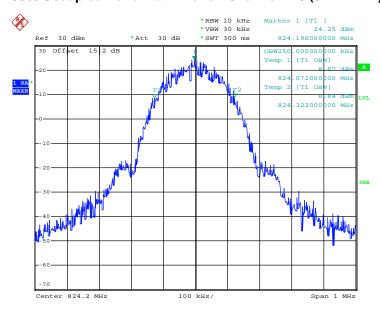


Date: 25.JUL.2014 02:04:31

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

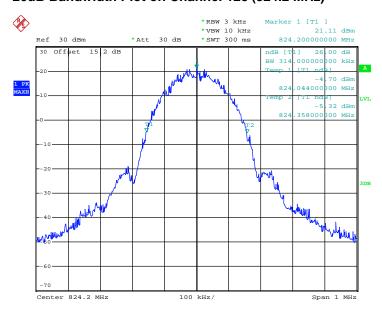
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 25.JUL.2014 02:40:57

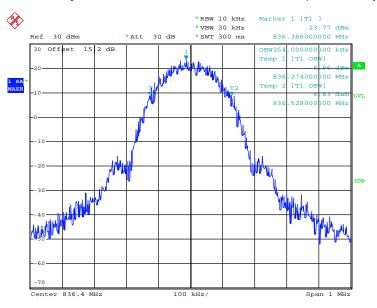
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 25.JUL.2014 02:54:56

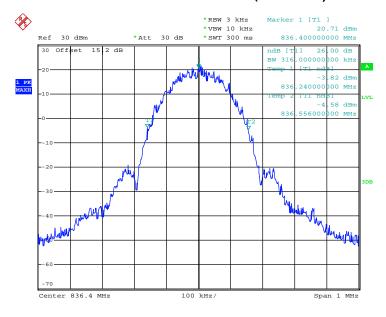
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 34 of 93
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 25.JUL.2014 02:41:23

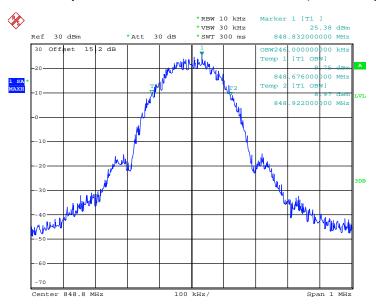
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 25.JUL.2014 02:56:28

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 35 of 93
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 25.JUL.2014 03:16:08

26dB Bandwidth Plot on Channel 251 (848.8 MHz)

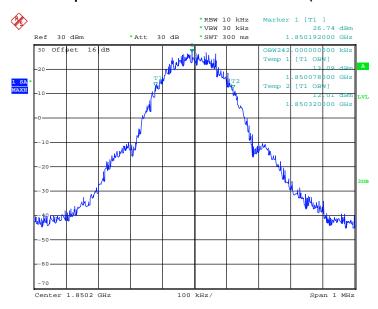


Date: 25.JUL.2014 02:52:10

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 36 of 93
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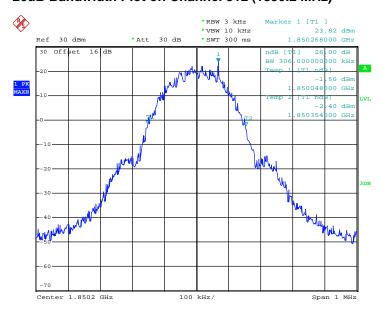
Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



Date: 25.JUL.2014 03:48:29

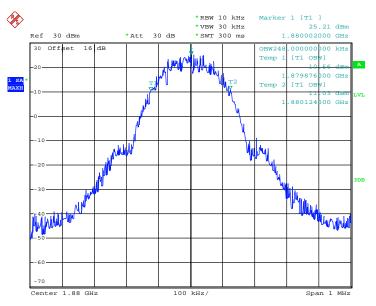
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 25.JUL.2014 03:35:44

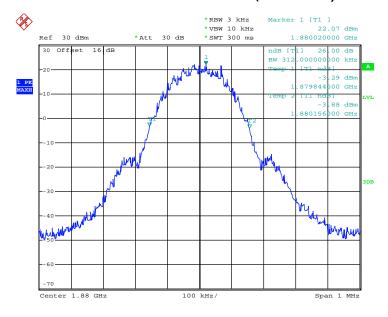
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 37 of 93
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 25.JUL.2014 03:37:28

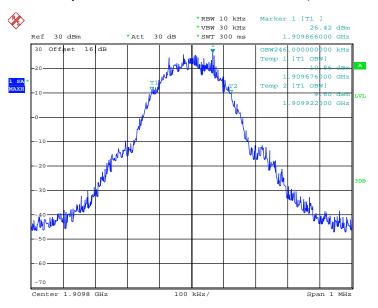
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 25.JUL.2014 03:36:10

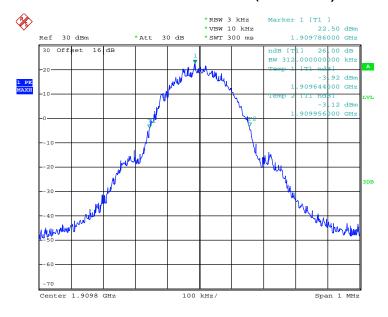
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 38 of 93
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99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 25.JUL.2014 03:37:53

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

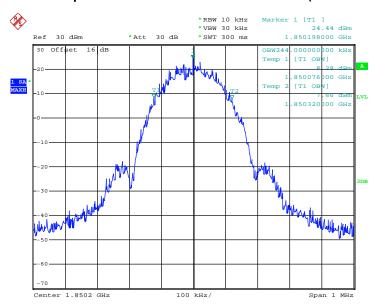


Date: 25.JUL.2014 03:36:36

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 39 of 93
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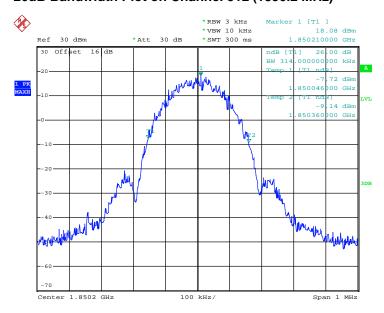
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 25.JUL.2014 04:06:12

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

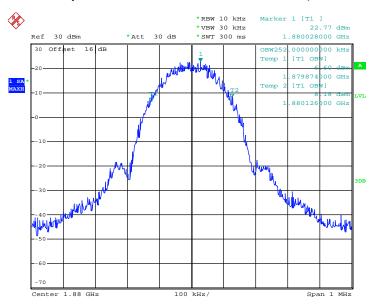


Date: 25.JUL.2014 03:53:23

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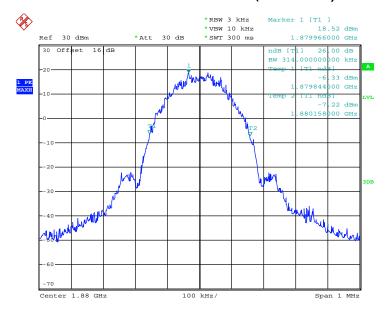
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 25.JUL.2014 04:07:58

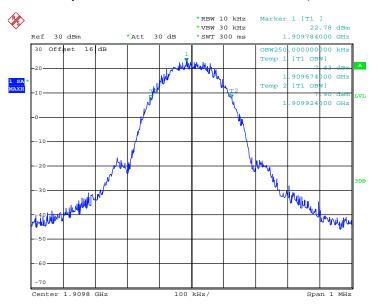
26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 25.JUL.2014 04:02:18

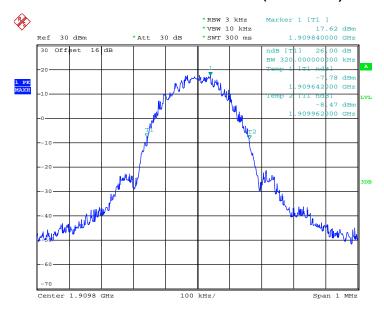
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

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



Date: 25.JUL.2014 04:13:49

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 25.JUL.2014 03:54:15

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8

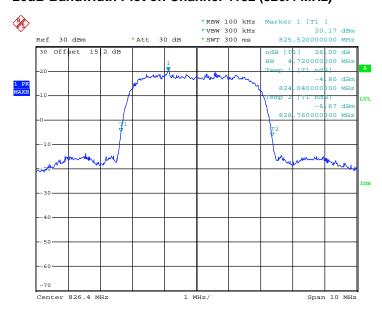
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 25.JUL.2014 03:27:58

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

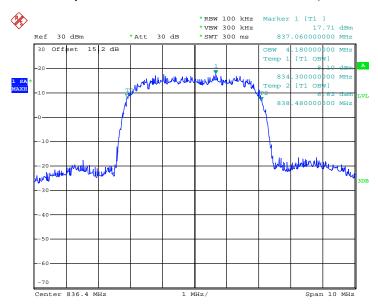


Date: 25.JUL.2014 03:26:40

SPORTON INTERNATIONAL (KUNSHAN) INC.

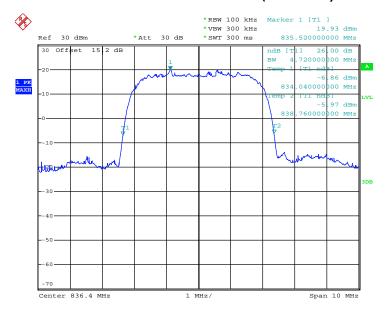
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 43 of 93
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99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 25.JUL.2014 03:28:24

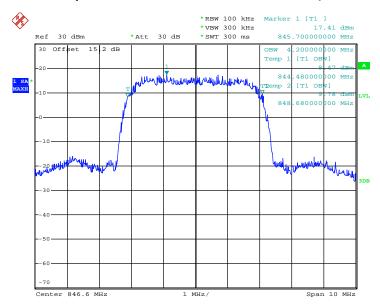
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 25.JUL.2014 03:27:06

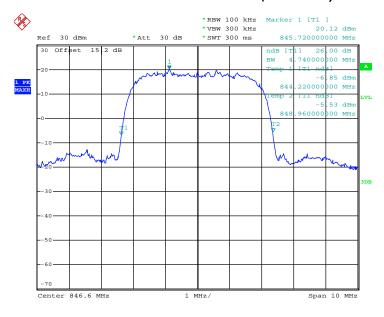
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 44 of 93
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99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 25.JUL.2014 03:28:49

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)

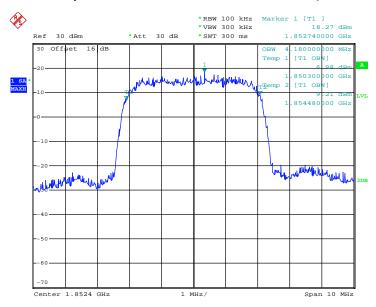


Date: 25.JUL.2014 03:27:32

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 45 of 93
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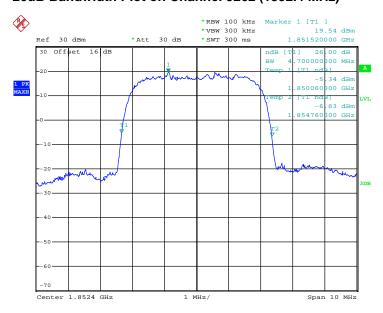
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 25.JUL.2014 04:23:38

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

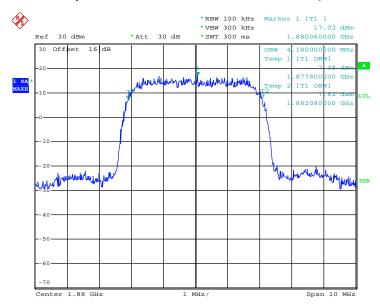


Date: 25.JUL.2014 04:22:20

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 46 of 93
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99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 25.JUL.2014 04:24:04

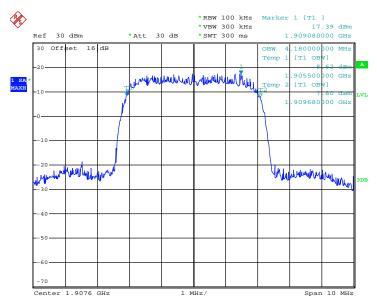
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 25.JUL.2014 04:22:46

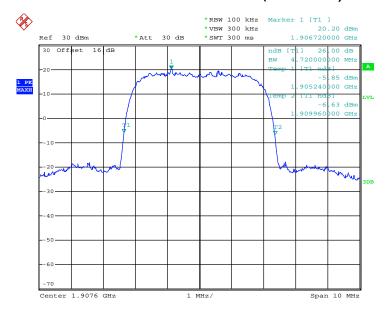
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 47 of 93
Report Issued Date : Jan. 04, 2015
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99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 25.JUL.2014 04:24:29

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 25.JUL.2014 04:23:12

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 48 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

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.

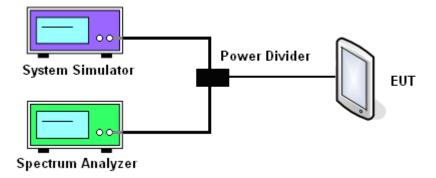
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 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.

3.5.4 Test Setup



TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 49 of 93
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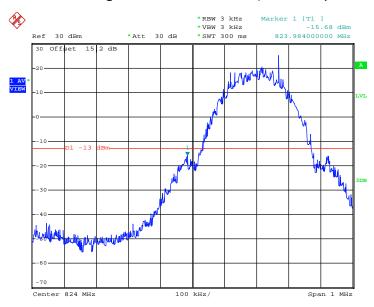
Report No.: FG472201

Report Version : Rev. 01

3.5.5 Test Result (Plots) of Conducted Band Edge

|--|

Lower Band Edge Plot on Channel 128 (824.2 MHz)



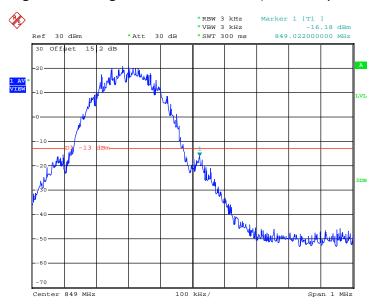
Date: 25.JUL.2014 02:07:14

- 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: YHLBLULIFEVIEW8 Page Number : 50 of 93
Report Issued Date : Jan. 04, 2015
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Band: GSM850 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)



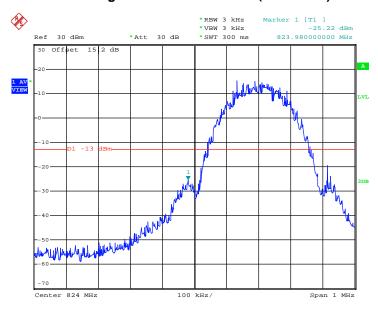
Date: 25.JUL.2014 03:21:56

- 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: YHLBLULIFEVIEW8 Page Number : 51 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)



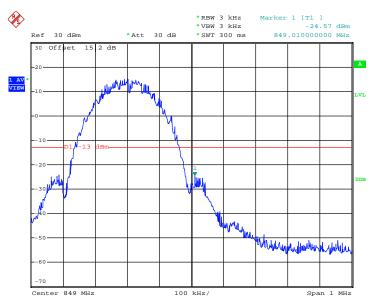
Date: 25.JUL.2014 02:43:14

- 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: YHLBLULIFEVIEW8 Page Number : 52 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)



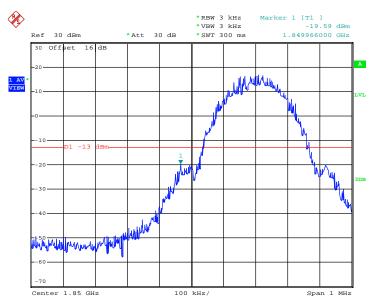
Date: 25.JUL.2014 03:01:35

- 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: YHLBLULIFEVIEW8 Page Number : 53 of 93
Report Issued Date : Jan. 04, 2015
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Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



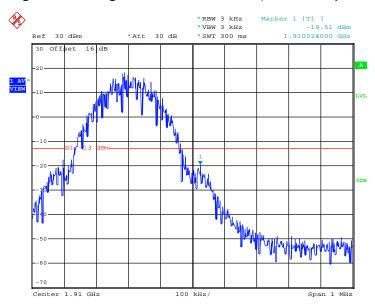
Date: 25.JUL.2014 03:39:18

- 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: YHLBLULIFEVIEW8 Page Number : 54 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: GSM1900 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



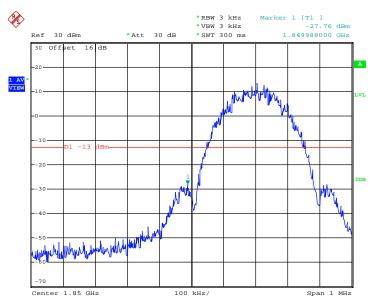
Date: 25.JUL.2014 03:39:44

- 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: YHLBLULIFEVIEW8 Page Number : 55 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



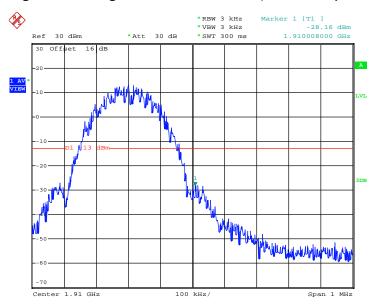
Date: 25.JUL.2014 03:56:58

- 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: YHLBLULIFEVIEW8 Page Number : 56 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)



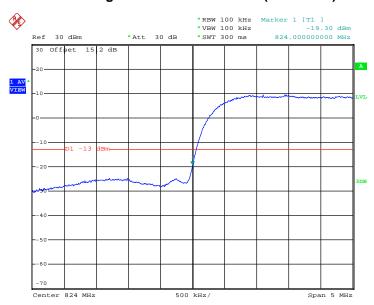
Date: 25.JUL.2014 03:57:24

- 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: YHLBLULIFEVIEW8 Page Number : 57 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



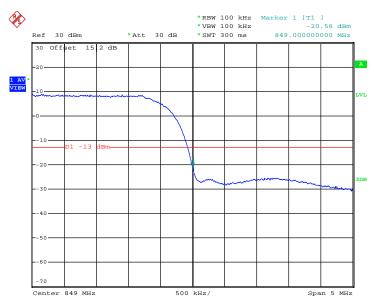
Date: 25.JUL.2014 03:30:17

- 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: YHLBLULIFEVIEW8 Page Number : 58 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 25.JUL.2014 03:30:43

- 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: YHLBLULIFEVIEW8 Page Number : 59 of 93
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Date: 25.JUL.2014 04:25:57

- 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: YHLBLULIFEVIEW8 Page Number : 60 of 93
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 25.JUL.2014 04:26:23

- 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: YHLBLULIFEVIEW8 Page Number : 61 of 93
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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 10th harmonic.

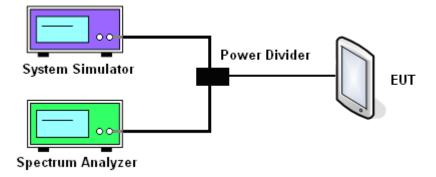
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. 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.

3.6.4 Test Setup

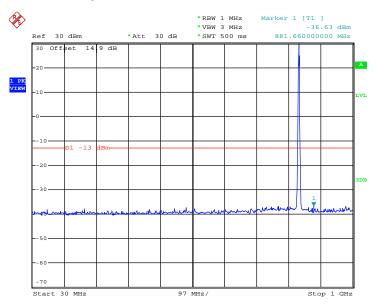


TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 62 of 93
Report Issued Date : Jan. 04, 2015
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

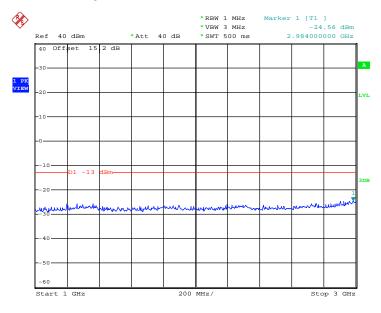
Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 05:00:16

Conducted Spurious Emission Plot between 1GHz ~ 3GHz

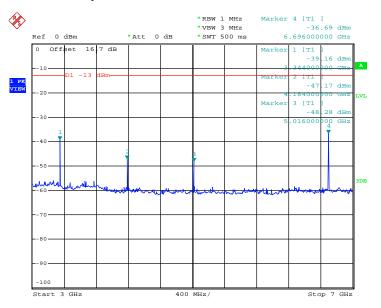


Date: 25.JUL.2014 05:02:18

SPORTON INTERNATIONAL (KUNSHAN) INC.

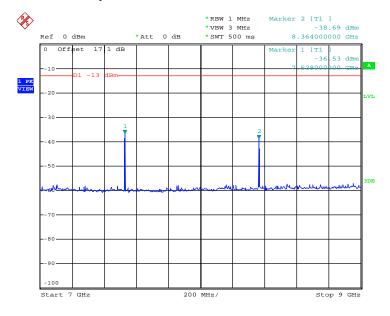
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 63 of 93
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 05:04:38

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

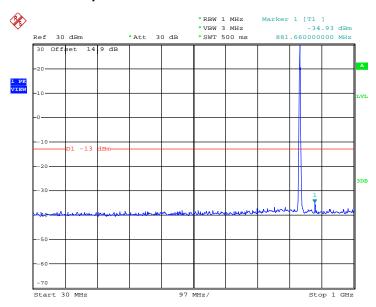


Date: 25.JUL.2014 05:05:30

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 64 of 93
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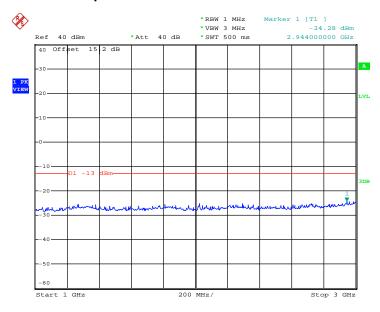
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 05:12:38

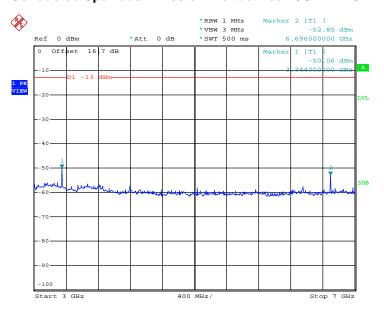
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 25.JUL.2014 05:14:09

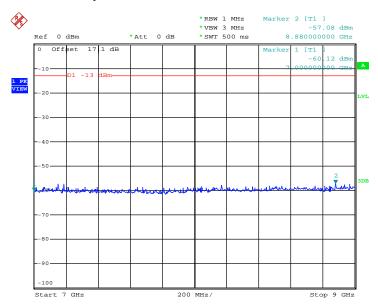
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 65 of 93
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 05:15:56

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

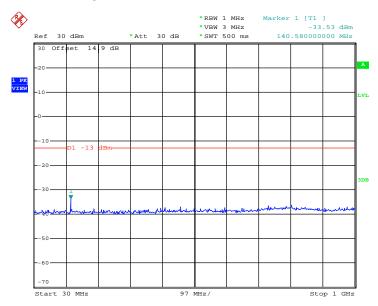


Date: 25.JUL.2014 05:16:33

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 66 of 93
Report Issued Date : Jan. 04, 2015
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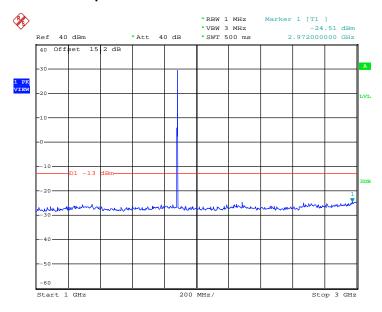
Band:	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 05:24:50

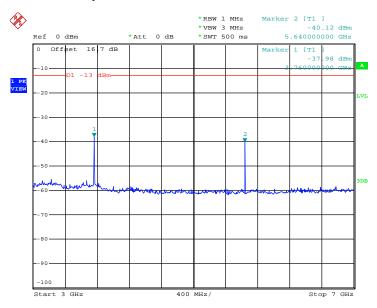
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 25.JUL.2014 05:28:07

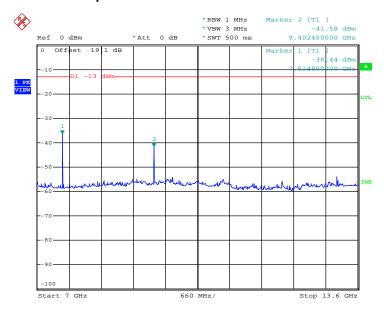
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 67 of 93
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 05:29:59

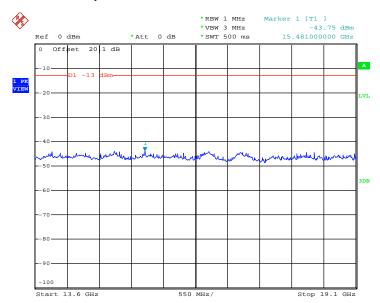
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 25.JUL.2014 05:32:19

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 68 of 93
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Report Version : Rev. 01

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

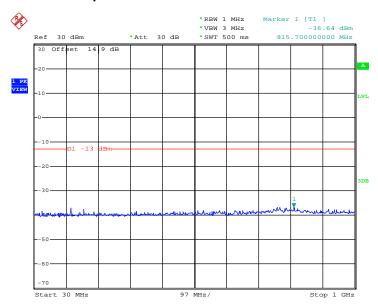


Date: 25.JUL.2014 05:34:18

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 69 of 93
Report Issued Date : Jan. 04, 2015
Report Version : Rev. 01

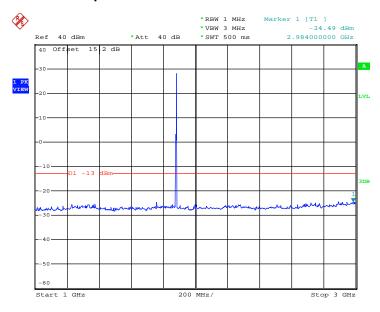
Band:	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 05:38:22

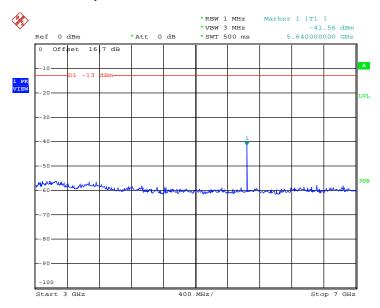
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 25.JUL.2014 05:41:41

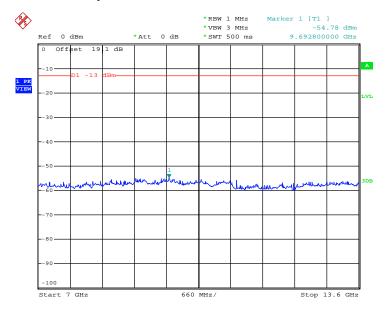
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 70 of 93
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 05:42:50

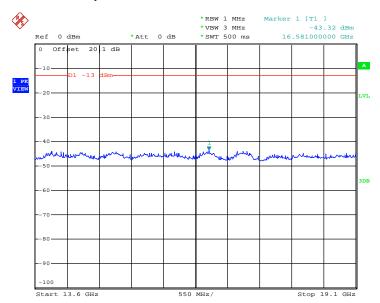
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 25.JUL.2014 05:44:31

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 71 of 93
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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

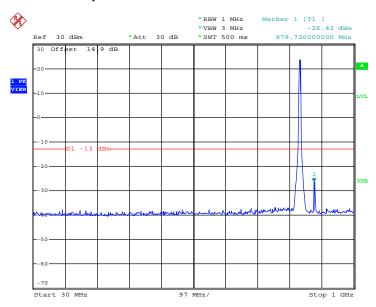


Date: 25.JUL.2014 05:46:11

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 72 of 93
Report Issued Date : Jan. 04, 2015
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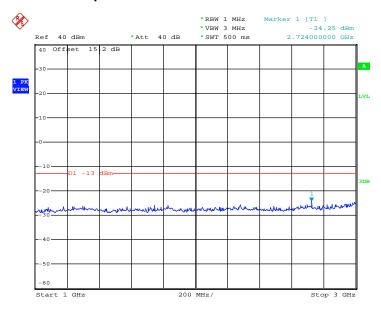
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 04:46:58

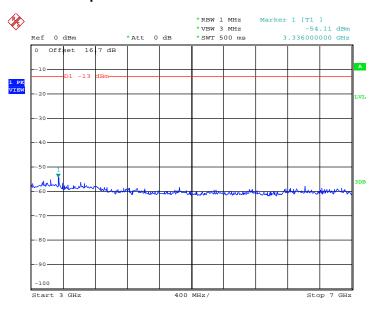
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 25.JUL.2014 04:48:43

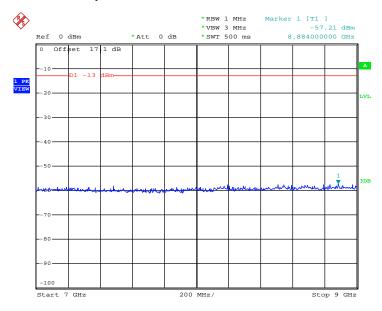
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 73 of 93
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 04:49:54

Conducted Spurious Emission Plot between 7GHz ~ 9GHz

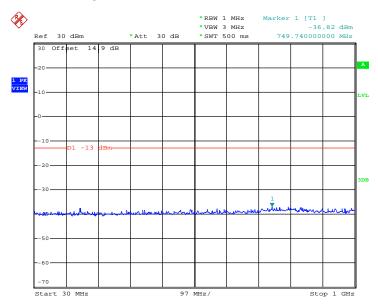


Date: 25.JUL.2014 04:50:49

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YHLBLULIFEVIEW8 Page Number : 74 of 93
Report Issued Date : Jan. 04, 2015
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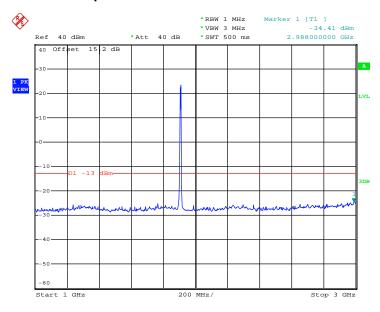
Band:	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 25.JUL.2014 05:50:24

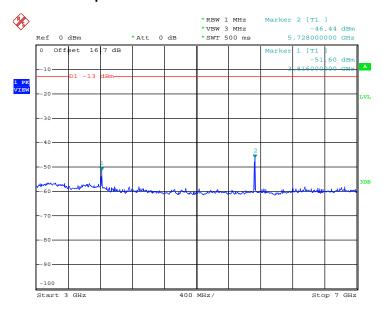
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 25.JUL.2014 05:51:42

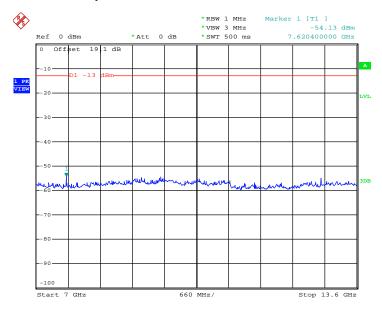
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Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 25.JUL.2014 05:52:42

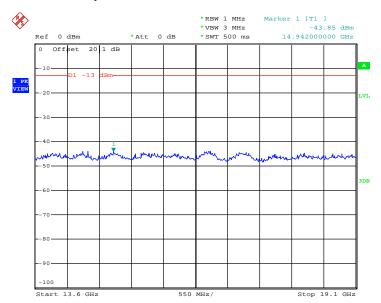
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 25.JUL.2014 05:54:13

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Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 25.JUL.2014 05:55:05

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3.7 Field Strength of Spurious Radiation Measurement

3.7.1 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.

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3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2 2 12
- 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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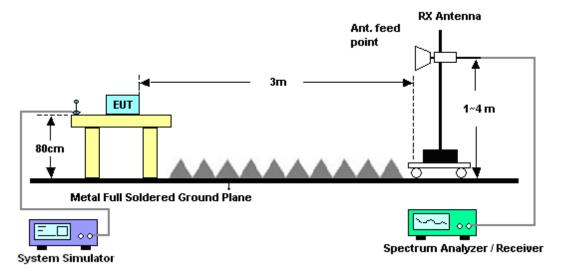
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.7.5 Test Result of Field Strength of Spurious Radiated

Band :		GSM850				Temperature	:	24~25°C	
Test Mode :		GSM Linl	k (GMSK)			Relative Hun	nidity :	49~51%	
Test Engine	er:	Issac Sor	ng			Polarization	:	Horizontal	
Remark :		Spurious	emissions	within 30-	1000MHz	were found r	nore tha	n 20dB below lim	nit line.
Frequency	ER	P Limi	t Over	SPA	S.G.	TX Cable	TX Ant	tenna Polarization	n Result
			Limit	Reading	Power	loss	Ga	in	
(MHz)	(dBi	m) (dBm) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi) (H/V)	
1674	-57.	36 -13	-44.36	-53.78	-58.01	0.57	3.3	37 H	Pass
2510	-49.	65 -13	-36.65	-52.49	-51.88	0.78	5.1	6 H	Pass
3345	-65.	79 -13	-52.79	-65.42	-69.60	0.99	6.9	95 H	Pass
4182	-65.	21 -13	-52.21	-64.90	-70.60	1.2	8.7	'4 H	Pass
5018	-64.	93 -13	-51.93	-66.57	-71.90	1.41	10.	53 H	Pass
5854	-40.	70 -13	-27.70	-52.68	-49.25	1.62	12.3	32 H	Pass
6692	-48.	59 -13	-35.59	-58.69	-52.23	0.87	6.6	66 H	Pass

					,					
Band :	(GSM850				Temperature	:	24~25°C		
Test Mode	: (GSM Link (GMSK)			Relative Hun	nidity :	49~51%		
Test Engine	eer :	Issac Song				Polarization	:	Vertical		
Remark :	,	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20dB below lim	it line.	
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	tenna Polarization	Result	
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi) (H/V)		
1674	-59.0	9 -13	-46.09	-58.75	-59.74	0.57	3.3	37 V	Pass	
2510	-41.8	6 -13	-28.86	-50.63	-44.09	0.78	5.1	6 V	Pass	
3344	-63.8	30 -13	-50.80	-64.86	-67.44	0.87	6.6	66 V	Pass	
4182	-63.1	4 -13	-50.14	-65.82	-68.30	1.04	8.3	85 V	Pass	
5018	-59.2	29 -13	-46.29	-65.84	-65.94	1.19	10.0	00 V	Pass	
5856	-43.3	34 -13	-30.34	-55.04	-51.50	1.34	11.6	64 V	Pass	
6692	-45.0	7 -13	-32.07	-57.39	-54.72	1.49	13.2	29 V	Pass	

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Band :		GSM	850				Temperature	:	24~2	5°C	
Test Mode	:	EDG	E class	8 Link ((8PSK)		Relative Humidity: 49~51%				
Test Engine	eer :	Issac	Song				Polarization		Horiz	ontal	
Remark :		Spuri	ious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ER	RP Limit Over SPA S.G. TX Cable TX Anter					enna	Polarization	Result		
				Limit	Reading	Power	loss	Gai	in		
(MHz)	(dB	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1674	-59.	67	-13	-46.67	-55.20	-60.32	0.57	3.3	7	Н	Pass
2510	-52.	40	-13	-39.40	-54.26	-54.63	0.78	5.1	6	Н	Pass
3345	-63.	21	-13	-50.21	-62.84	-67.02	0.99	6.9	5	Н	Pass
4182	-64.	23	-13	-51.23	-63.92	-69.62	1.2	8.7	4	Н	Pass
5018	-65.	98	-13	-52.98	-67.62	-72.95	1.41	10.5	53	Н	Pass
5856	-40.	86	-13	-27.86	-52.81	-49.41	1.62	12.3	32	Н	Pass
6692	-47.	31	-13	-34.31	-58.08	-50.95	0.87	6.6	6	Н	Pass

Band :		GSM850				Temperature	:	24~25°C		
Test Mode	:	EDGE clas	s 8 Link	(8PSK)		Relative Hun	49~51%			
Test Engine	eer :	Issac Song				Polarization	:	Vertical		
Remark :		Spurious e	ious emissions within 30-1000MHz were found more than 20dB below limit l							
Frequency	ERI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	TX Antenna Polarization Res		
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	Bi) (H/V)		
1674	-60.2	20 -13	-47.20	-59.49	-60.85	0.57	3.3	7 V	Pass	
2510	-47.6	62 -13	-34.62	-55.16	-49.85	0.78	5.1	6 V	Pass	
3344	-63.0	00 -13	-50.00	-64.06	-66.64	0.87	6.6	66 V	Pass	
4182	-63.6	65 -13	-50.65	-66.33	-68.81	1.04	8.3	5 V	Pass	
5018	-60.3	36 -13	-47.36	-66.91	-67.01	1.19	10.0	00 V	Pass	
5856	-43.6	63 -13	-30.63	-55.17	-51.78	1.34	11.6	64 V	Pass	
6692	-45.5	51 -13	-32.51	-57.83	-55.16	1.49	13.2	29 V	Pass	

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Band :	(3SM1900				Temperature	:	24~25°C		
Test Mode	: (GSM Link (GMSK)			Relative Hun	nidity:	49~51%		
Test Engine	eer : I	ssac Song				Polarization				
Remark :	9	Spurious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20dB below l	imit line.	
Frequency	EIRF	Limit Over SPA			S.G.	TX Cable	TX Ant	enna Polarizati	on Result	
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i) (H/V)		
3760	-61.8	5 -13	-48.85	-65.20	-68.23	0.78	7.1	6 H	Pass	
5643	-45.4	3 -13	-32.43	-58.10	-53.97	1.04	9.5	8 H	Pass	
7521	-44.5	0 -13	-31.50	-58.88	-54.61	1.35	11.4	16 H	Pass	

Band :		GSM1900				Temperature	:	24~25°C		
Test Mode		GSM Link (GMSK)			Relative Hun	nidity:	49~51%		
Test Engine	eer:	Issac Song				Polarization	:	Vertic	al	
Remark :		Spurious er	urious emissions within 30-1000MHz were found more than 20dB below limit line							
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3759	-57.0)4 -13	-44.04	-65.44	-63.42	0.78	7.1	6	V	Pass
5643	-51.7	'9 - 13	-38.79	-64.44	-60.33	1.04	9.5	8	V	Pass
7521	-49.6	32 -13	-36.62	-63.71	-59.73	1.35	11.4	16	V	Pass

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Band :	G	SM1900				Temperature	:	24~25°C			
Test Mode :	: E	DGE class	8 Link	(8PSK)		Relative Hun	nidity:	49~51	49~51%		
Test Engine	er : Is	Issac Song Polarization : Horizontal									
Remark :	S	Spurious en	ious emissions within 30-1000MHz were found more than 20dB below lir							: line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna I	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3759	-61.40	-13	-48.40	-64.75	-67.78	0.78	7.1	6	Н	Pass	
5640	-56.89	9 -13	-43.89	-66.95	-65.43	1.04	9.5	8	Н	Pass	
7521	-53.80	-13	-40.80	-65.34	-63.91	1.35	11.4	1 6	Н	Pass	

Band :		GSM1900				Temperature	:	24~25°C		
Test Mode	: E	DGE class	s 8 Link	(8PSK)		Relative Hun	nidity:	49~5	1%	
Test Engin	eer : I	ssac Song				Polarization		Vertic	al	
Remark :	5	Spurious er	urious emissions within 30-1000MHz were found more than 20dB below limit line.							
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3759	-56.5	3 -13	-43.53	-64.93	-62.91	0.78	7.1	6	V	Pass
5640	-54.6	1 -13	-41.61	-67.26	-63.15	1.04	9.5	8	V	Pass
7521	-52.7	0 -13	-39.70	-66.79	-62.81	1.35	11.4	16	V	Pass

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Band :	V	VCDMA Ba	and V			Temperature	:	24~25°C		
Test Mode :	: F	RMC 12.2K	bps Link	(QPSK)		Relative Hun	49~51%			
Test Engine	eer : la	ssac Song				Polarization	Horizontal			
Remark :	5	Spurious er	ious emissions within 30-1000MHz were found more than 20dB below limit line							line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polari	Result	
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i) (H	/V)	
1670	-53.40	0 -13	-40.40	-50.97	-54.05	0.57	3.3	7 H	1	Pass
2508	-65.63	3 -13	-52.63	-64.30	-67.86	0.78	5.1	6 H	1	Pass
3340	-60.39	9 -13	-47.39	-60.02	-64.20	0.99	6.9	5 H	1	Pass

Band :	V	VCDMA Ba	and V			Temperature	:	24~25°C		
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	49~5	1%	
Test Engine	eer : ls	sac Song				Polarization		Vertic	al	
Remark :	S	purious er	urious emissions within 30-1000MHz were found more than 20dB below limit line.							
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBm) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Gai (dB		(H/V)	
1670	-55.02	, , ,	-42.02	-56.41	-55.67	0.57	3.3	-	\(\(\frac{1111}{\text{V}}\)	Pass
2509	-64.04		-51.04	-66.47	-66.27	0.78	5.1	-	V	Pass
3344	-64.42	-13	-51.42	-65.48	-68.06	0.87	6.6	6	V	Pass

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Band :	V	VCDMA Ba	and II			Temperature	:	24~25	°C	
Test Mode	: R	RMC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	49~51%		
Test Engine	eer : Is	ssac Song				Polarization	:	Horizontal		
Remark :	S	Spurious er	nissions	within 30-1	000MHz	were found n	nore tha	n 20dE	B below limit	line.
requency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna F	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3759	-61.01	1 -13	-48.01	-64.36	-67.39	0.78	7.1	6	Н	Pass
5640	-56.69	-13	-43.69	-66.75	-65.23	1.04	9.5	8	Н	Pass
7521	-53.3′	I -13	-40.31	-64.85	-63.42	1.35	11.4	16	Н	Pass

Band :	/	WCDMA Ba	and II			Temperature	:	24~2	5°C	
Test Mode	: I	RMC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	49~51%		
Test Engine	eer : I	ssac Song				Polarization		Vertical		
Remark :	Ş	Spurious emissions within 30-1000MHz were found more than 20dB below limit				line.				
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
()	/ ID		Limit	Reading	Power	loss	Gai		4100	
(MHz)	(dBn	1) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	1)	(H/V)	
3762	-54.5	5 -13	-41.55	-62.95	-60.93	0.78	7.1	6	V	Pass
5643	-52.5	6 -13	-39.56	-65.21	-61.10	1.04	9.5	8	V	Pass
7521	-51.4	2 -13	-38.42	-65.51	-61.53	1.35	11.4	16	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

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 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.
- 4. With power OFF, the temperature was raised in 10°C steps 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.

3.8.4 Test Procedures for Voltage Variation

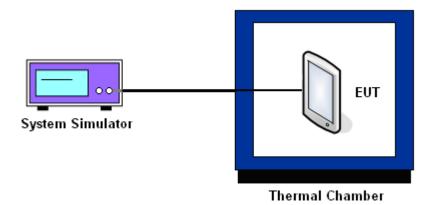
- 1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 4. The variation 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	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-35	0.0120	-32	0.0179	
40	-33	0.0096	-30	0.0155	
30	-31	0.0072	-24	0.0084	
20(Ref.)	-25	0.0000	-17	0.0000	
10	-17	0.0096	-12	0.0060	PASS
0	-15	0.0120	-10	0.0084	
-10	-18	0.0084	-15	0.0024	
-20	-24	0.0012	-25	0.0096	
-30	-30	0.0060	-31	0.0167	

Band :	GSM 1900	Channel:	661
Limit (ppm):	within authorized band	Frequency:	1880.0 MHz

	GS	SM	EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-37	0.0069	-38	0.0064	
40	-33	0.0048	-35	0.0048	
30	-30	0.0032	-31	0.0027	
20(Ref.)	-24	0.0000	-26	0.0000	
10	-17	0.0037	-18	0.0043	PASS
0	-10	0.0074	-12	0.0074	
-10	-18	0.0032	-24	0.0011	
-20	-25	0.0005	-30	0.0021	
-30	-32	0.0043	-34	0.0043	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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	
50	-35	0.0167		
40	-33	0.0143		
30	-28	0.0084		
20(Ref.)	-21	0.0000		
10	-15	0.0072	PASS	
0	-11	0.0120		
-10	-17	0.0048		
-20	-25	0.0048		
-30	-31	0.0120		

Band :	WCDMA Band II	Channel:	9400
Limit (ppm):	within authorized band	Frequency:	1880.0 MHz

_ ,	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
50	-33	0.0064	
40	-30	0.0048	
30	-28	0.0037	
20(Ref.)	-21	0.0000	
10	-16	0.0027	PASS
0	-10	0.0059	
-10	-18	0.0016	
-20	-25	0.0021	
-30	-31	0.0053	

Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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
		3.7	-16	0.0108		
	GSM	BEP	-10	0.0179		
GSM 850		4.2	-12	0.0155	2.5	
CH189		3.7	-15	0.0024	2.5	
	EDGE class 8	BEP	-8	0.0108		
	0.000	4.2	-11	0.0072		
		3.7	-18	0.0032) PA 00
	GSM	BEP	-12	0.0064		
GSM 1900		4.2	-15	0.0048	(Note 3.)	
CH661		3.7	-16	0.0053	(Note 3.)	PASS
	EDGE class 8	BEP	-10	0.0085		
	0.000	4.2	-12	0.0074		
		3.7	-15	0.0072		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	-10	0.0132	2.5	
0111102	12.21.000	4.2	-13	0.0096		
		3.7	-17	0.0021		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	-10	0.0059	(Note 3.)	
0113400	12.21000	4.2	-15	0.0032		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.45 V.
- 3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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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	May 04, 2014	Jul. 25, 2014	May 03, 2015	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV30	101338	9kHz~30GHz	May 04, 2014	Jul. 25, 2014	Dec. 27, 2014	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 25, 2014	Jul. 25, 2014	Dec. 09, 2014	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Aug. 28, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 04, 2014	Aug. 28, 2014	May 03, 2015	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Aug. 28, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Aug. 28, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Aug. 28, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Aug. 28, 2014	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 04, 2014	Aug. 28, 2014	May 03, 2015	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Dec. 10, 2013	Aug. 28, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 28, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Aug. 28, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Aug. 28, 2014	NCR	Radiation (03CH01-KS)

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Calibration Instrument Manufacturer Model No. Serial No. Characteristics **Test Date Due Date** Remark Date ERP/EIRP Spectrum R&S FSP 7 100819 9kHz~7GHz May 04, 2014 Jul. 25, 2014 May 03, 2015 Analyzer (OTA01-KS) Switch Control ERP/EIRP N/A N/A Jul. 25, 2014 Agilent 3499A MY42005452 N/A Manframe (OTA01-KS) Dual 1-to-6(4) ERP/EIRP Jul. 25, 2014 Agilent N2276A MY42000841 N/A N/A N/A MW MUX (OTA01-KS) Microwave ERP/EIRP Jul. 25, 2014 Agilent 44476A MY42002573 N/A N/A N/A Switch (OTA01-KS) Microwave ERP/EIRP Agilent 44476A MY42002586 N/A N/A Jul. 25, 2014 N/A Switch (OTA01-KS) Diagonal Dual ERP/EIRP 700MHz~6GHz ETS-Lindgren 3164-04 00066993 N/A Jul. 25, 2014 N/A Polarized Horn (OTA01-KS) Multi-Devices ERP/EIRP N/A N/A Jul. 25, 2014 N/A ETS-Lindgren 2090-OPT1 00066604 Controller (OTA01-KS) Conical Log ERP/EIRP 1~10GHz N/A Jul. 25, 2014 N/A ETS-Lindgren 3102 00066951 Spiral (Small) (OTA01-KS) ERP/EIRP Resolution: 0.1deg N/A Jul. 25, 2014 Turn Table 2088 N/A N/A ETS-Lindgren (OTA01-KS) Limiting ERP/EIRP N/A Jul. 25, 2014 N/A 920326 10MHz~2.5GHz ETS-lindgren 109643 Amplifier (OTA01-KS) ERP/EIRP N/A Jul. 25, 2014 N/A **EMQuest** ETS-Lindgren EMQ-100 1125 N/A (OTA01-KS) ERP/EIRP Medium Duty N/A Jul. 25, 2014 N/A 2015 N/A ETS-Lindgren N/A Holder (OTA01-KS)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.5 dB
Confidence of 95% (U = 2Uc(y))	2.5 UB

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