FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd.

EQUIPMENT: Tablet PC

BRAND NAME : BLU

MODEL NAME : STUDIO 7.0 II

FCC ID : YHLBLUSTUDIO7II

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E),27(L) CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Jul. 03, 2015 and testing was completed on Jul. 15, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 1 of 119
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG570301	Rev. 01	Initial issue of report Sep. 1	

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Conducted Output Power	Reporting Only	PASS	-
3.2	§24.232(d)	RSS-132 (5.4) RSS-133 (6.4) RSS-139 (6.5)	Peak-to-Average Ratio	< 13 dB	PASS	-
	§22.913(a)(2)	RSS-132(5.4) 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	-
	§27.50(d)(4)	RSS-139 (6.5) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.4	§2.1049	RSS-GEN(6.6) RSS-133(6.5) Occupied RSS-139 (3.1)		Reporting Only	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-132 (5.5) RSS-133 (6.5) RSS-139 (6.6)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 16.36 dB at 3819.600 MHz
3.8	§2.1055 §22.355 §2.1055 §24.235 §27.54	RSS-GEN(6.11) RSS-132 (5.3) RSS-GEN(6.11) RSS-133 (6.3) RSS-139 (6.4)	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22 Within Authorized Band	PASS	-

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1 General Description

1.1 Applicant

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.2 Manufacturer

CT Asia (HK) Ltd.

Unit1309-11, 13th Floor 9 Wing Hong Street Cheung Sha Wan Kowloon, Hong Kong

1.3 Product Feature of Equipment Under Test

Product Feature							
Equipment	Tablet PC						
Brand Name	BLU						
Model Name	STUDIO 7.0 II						
FCC ID	YHLBLUSTUDIO7II						
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						
IMEI Code	Conducted: 863370027471716 Radiation: 863370027471864 ERP&EIRP: N/A						
HW Version	AW1998_PCB_MB_V2.0						
SW Version	BLU_S480U_V06_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 Speci	Product Specification subjective to this standard						
	GSM850: 824.2 MHz ~ 848.8 MHz						
	GSM1900: 1850.2 MHz ~ 1909.8MHz						
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz						
	WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz						
	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz						
	GSM850: 869.2 MHz ~ 893.8 MHz						
	GSM1900: 1930.2 MHz ~ 1989.8 MHz						
Rx Frequency	WCDMA Band V: 871.4 MHz ~ 891.6 MHz						
	WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz						
	WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz						
	GSM850 : 31.72 dBm						
	GSM1900 : 29.00 dBm						
Maximum Output Power to Antenna	WCDMA Band V : 23.12 dBm						
	WCDMA Band IV : 21.51 dBm						
	WCDMA Band II : 21.51 dBm						
Antenna Type	PIFA Antenna						
	GSM: GMSK						
	GPRS: GMSK						
	EDGE: GMSK / 8PSK						
Type of Modulation	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)	,	Emission Designator
Part 22	GSM850 GSM	GMSK	0.2083	0.0729 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.0563	0.0167 ppm	253KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0192	0.0072 ppm	4M15F9W
Part 24	GSM1900 GSM	GMSK	0.3813	0.0415 ppm	245KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.1242	0.0516 ppm	252KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.0533	0.0027 ppm	4M15F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.0583	0.0029 ppm	4M17F9W

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1.7 Testing Location

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.						
	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili					
Test Site Location	Town, Nanshan District, Shenzhen, Guangdong, P. R. China					
lest Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Took Site No.	Sporton Site No.					
Test Site No.	TH01-SZ					

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.					
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China					
	TEL: +86-755- 3320-2398					
Took Cita No	Sporton Site No.	FCC/IC Registration No.				
Test Site No.	03CH01-SZ	831040/4086F				

Note: The test site complies with ANSI C63.4 2009 requirement.

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- IC RSS-132 Issue 3
- IC RSS-133 Issue 6
- IC RSS-139 Issue 3
- IC RSS-Gen Issue 4

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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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 as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV
- 3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

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						
GSINI 650	■ EDGE class 8 Link	■ EDGE class 8 Link						
GSM 1900	■ GSM Link	■ GSM Link						
GSW 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						
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link						

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM mode for GMSK modulation,

EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V and WCDMA band IV,

RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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Conducted Power Measurement Results:

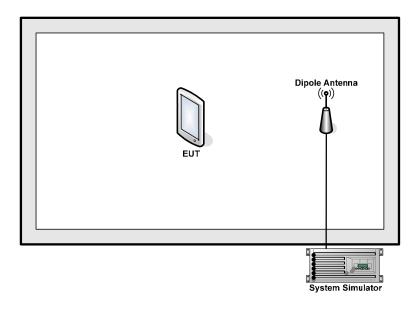
Conducted Power (*Unit: dBm)									
Band	Band GSM850				GSM1900				
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	31.68	31.70	31.72	28.89	28.98	29.00			
GPRS class 8	31.53	31.55	31.59	28.62	28.72	28.73			
GPRS class 10	31.45	31.47	31.50	28.40	28.51	28.55			
GPRS class 11	30.41	30.42	30.45	27.25	27.42	27.48			
GPRS class 12	29.29	29.34	29.35	26.12	26.34	26.38			
EGPRS class 8	26.87	26.65	26.44	25.79	25.62	25.56			
EGPRS class 10	25.76	25.62	25.43	24.76	24.45	24.42			
EGPRS class 11	23.64	23.40	23.26	22.64	22.32	22.16			
EGPRS class 12	22.47	22.19	22.02	21.33	21.12	21.03			

Conducted Power (*Unit: dBm)										
Band	Band WCDMA Band V			WCDMA Band II			WCDMA Band IV			
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6	
AMR 12.2K	23.10	22.87	23.03	21.50	21.48	21.42	21.37	21.35	21.49	
RMC 12.2K	23.12	22.89	23.04	<mark>21.51</mark>	21.49	21.43	21.38	21.36	<mark>21.51</mark>	
HSDPA Subtest-1	21.91	21.85	21.89	20.25	20.22	20.14	20.05	20.13	20.30	
HSDPA Subtest-2	21.93	21.84	21.90	20.24	20.25	20.15	20.09	20.15	20.30	
HSDPA Subtest-3	21.45	21.37	21.37	19.78	19.80	19.71	19.63	19.70	19.83	
HSDPA Subtest-4	21.41	21.34	21.36	19.76	19.74	19.68	19.59	19.66	19.85	
HSUPA Subtest-1	19.89	19.89	19.81	18.35	18.29	18.25	18.15	18.18	18.42	
HSUPA Subtest-2	19.90	19.90	19.84	18.30	18.29	18.25	18.17	18.24	18.44	
HSUPA Subtest-3	20.90	20.90	20.84	19.28	19.26	19.24	19.15	19.18	19.38	
HSUPA Subtest-4	19.38	19.32	19.32	17.76	17.73	17.71	17.59	17.66	17.86	
HSUPA Subtest-5	21.90	21.90	21.80	20.20	20.20	20.20	20.10	20.20	20.30	

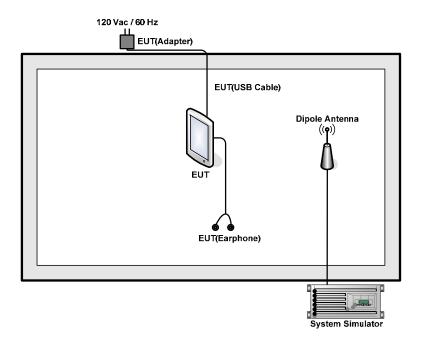
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2.2 Connection Diagram of Test System

For 22H,24E



For 27L



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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	TOPWORD	3303DR	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 4.5 dB and a 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
=
$$4.5 + 10 = 14.5$$
 (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.

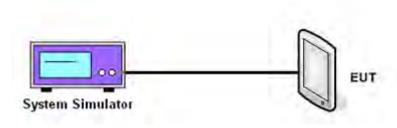
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- The transmitter output port was connected to the system simulator. 1.
- 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	GS	SM850 (GS	M) GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)	128 189 251 (Low) (Mid) (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)	31.68	31.70	31.72	26.87	26.65	26.44	23.12	22.89	23.04

	PCS Band								
Modes	GS	M1900 (GS	900 (GSM) GSM1900 (EDGE class 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	1850.2 1880 1909.8			1880	1907.6
Conducted Power (dBm)	28.89	28.98	29.00	25.79	25.62	25.56	21.51	21.49	21.43

	AWS Band								
Modes		WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312 (Low)								
Frequency (MHz)	1712.4	1732.6	1752.6						
Conducted Power (dBm)	21.38	21.36	21.51						

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.

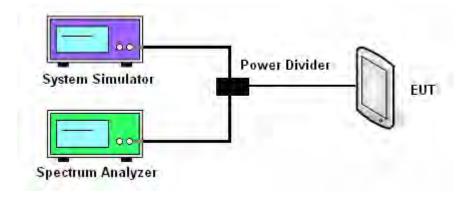
3.2.2 Measuring Instruments

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

	Cellular Band								
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 (Low)	189 (Mid)	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
Peak-to-Average Ratio (dB)	0.30	0.31	0.30	2.41	2.15	2.62	3.22	3.30	3.10

	PCS Band								
Modes	GSM1900 (GSM)			GSM1900 (EDGE 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)	0.29	0.28	0.28	2.57	2.35	2.39	2.96	3.04	3.04

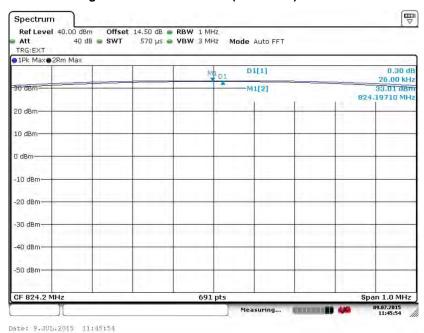
AWS Band								
Modes	WCDMA Band IV (RMC 12.2Kbps)							
Channel	1312(Low)	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1732.6	1752.6					
Peak-to-Average Ratio (dB)	3.04	3.10	2.99					

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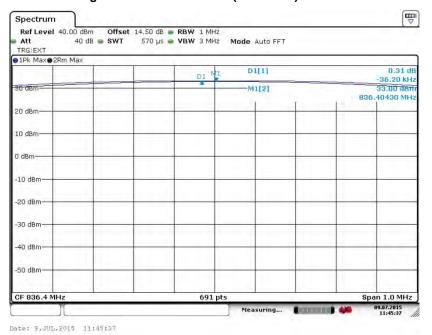
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band: GSM 850 Test Mode: GSM Link (GMSK)

Peak-to-Average Ratio on Channel 128 (824.2 MHz)



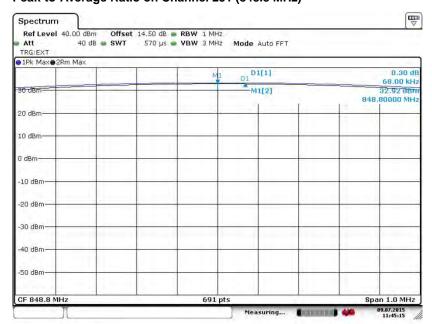
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



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Peak-to-Average Ratio on Channel 251 (848.8 MHz)

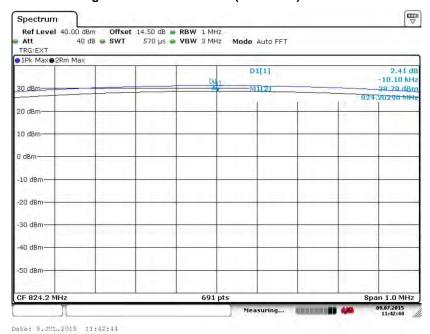


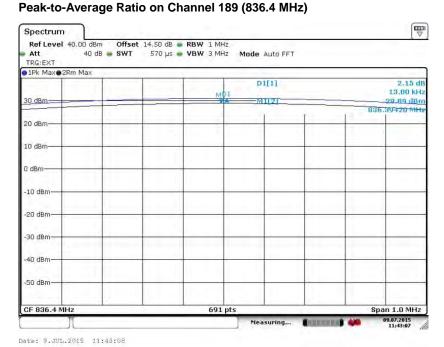
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GSM 850 Test Mode: EDGE class 8 Link (8PSK) Band:

Peak-to-Average Ratio on Channel 128 (824.2 MHz)

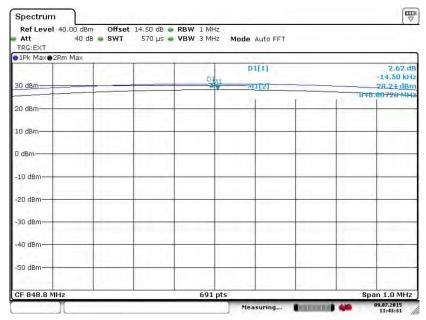




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Peak-to-Average Ratio on Channel 251 (848.8 MHz)

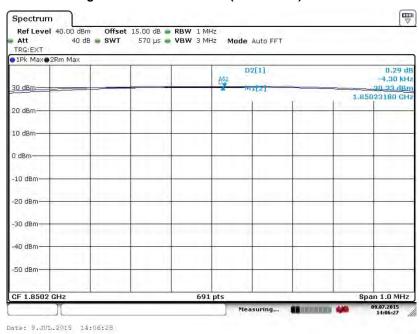


Date: 9.JUL.2015 11:43:32

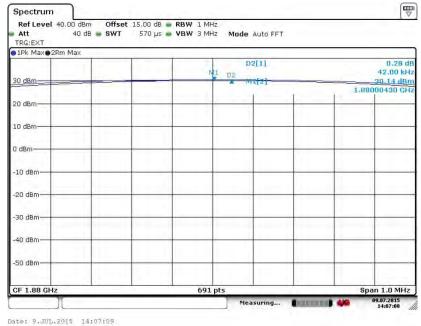
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 20 of 119
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Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



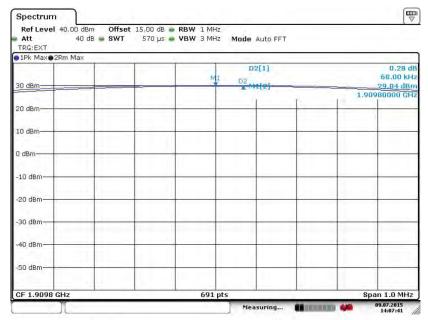
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 9.005.2015 14:07:03

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 21 of 119
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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

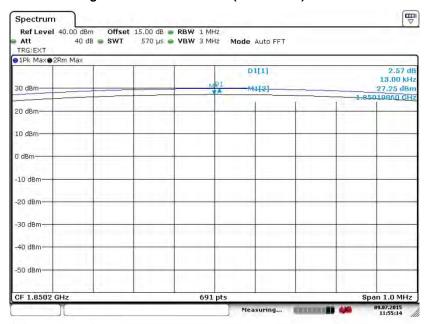


Date: 9.JUL.2015 14:07:42

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 22 of 119
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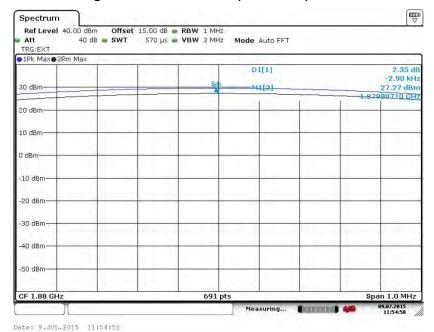
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 9.JUL.2015 11:55:15

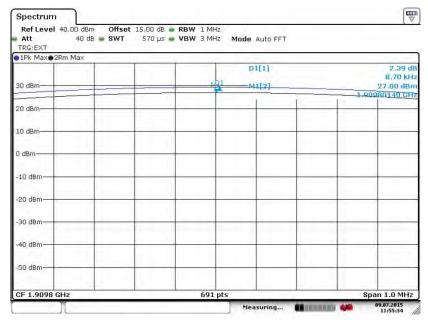
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



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

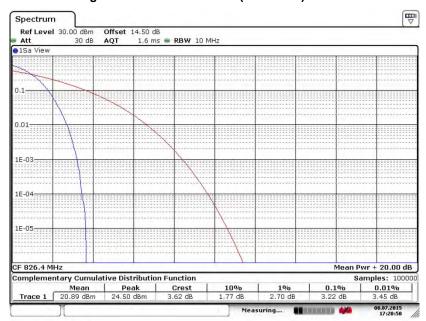


Date: 9.JUL.2015 11:55:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 24 of 119
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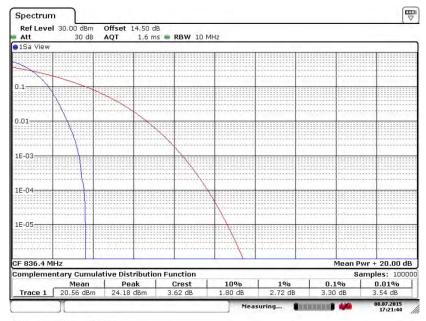
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Peak-to-Average Ratio on Channel 4132 (826.4 MHz)



Date: 8.JUL.2015 17:20:50

Peak-to-Average Ratio on Channel 4182 (836.4 MHz)

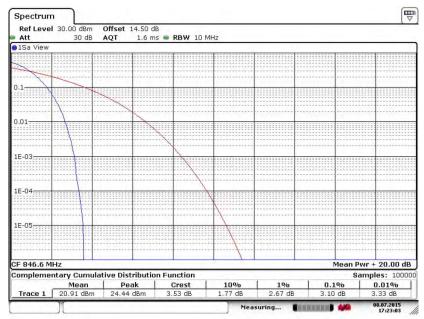


Date: 8.JUL.2015 17:21:45

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 25 of 119
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Peak-to-Average Ratio on Channel 4233 (846.6 MHz)



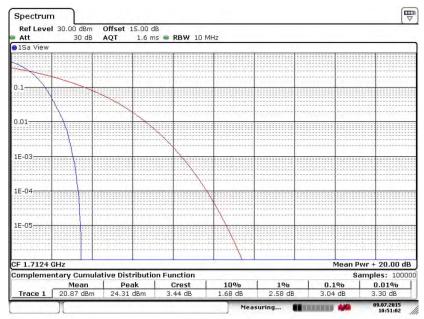
Date: 8.JUL.2015 17:23:03

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 26 of 119 Report Issued Date : Sep. 10, 2015 Report Version : Rev. 01

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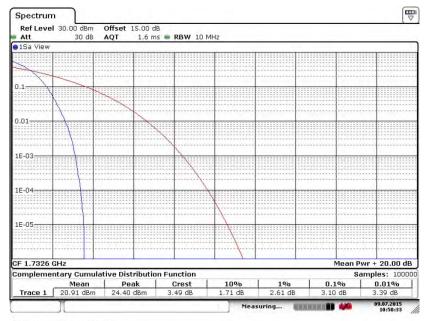
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Peak-to-Average Ratio on Channel 1312 (1712.4 MHz)



Date: 9.JUL.2015 10:51:02

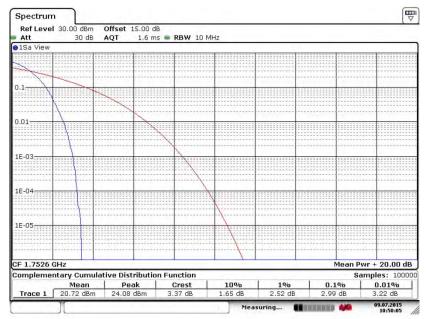
Peak-to-Average Ratio on Channel 1413 (1732.6 MHz)



Date: 9.JUL.2015 10:50:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 27 of 119 Report Issued Date : Sep. 10, 2015

Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)



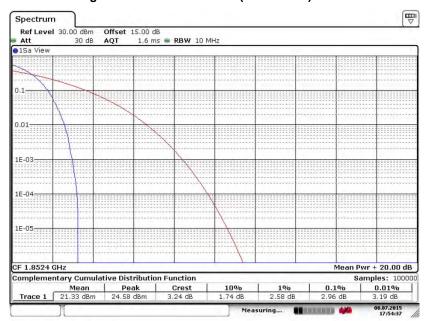
Date: 9.JUL.2015 10:50:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 28 of 119
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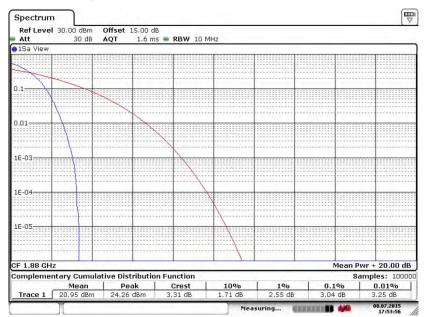
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 8.JUL.2015 17:54:37

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



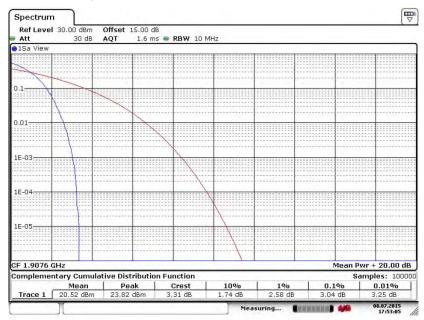
Date: 8.JUL.2015 17:53:56

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 29 of 119
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Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Date: 8.JUL.2015 17:53:05

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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 (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band) and 1 Watts (AWS Band).

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

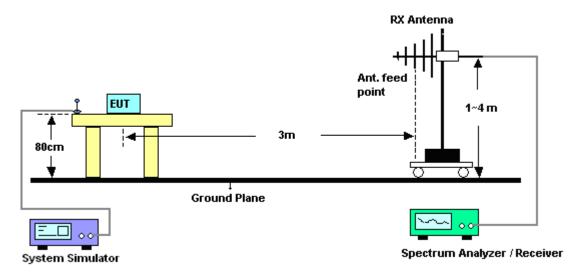
- The testing follows FCC KDB 971168 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

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	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

3.3.4 Test Setup



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3.3.5 Test Result of ERP

GSM850 (GSM) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	824.2	23.19	0.2083	18.25	0.0669		
Middle	836.4	23.07	0.2029	18.80	0.0758		
Highest	848.8	21.71	0.1483	17.92	0.0619		
Limit	ERP < 7W	Re	sult	PA	SS		

GSM850 (EDGE class 8) Radiated Power ERP							
Channel	Frequency	Horiz	ontal	Vertical			
Chamei	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	824.2	17.50	0.0563	12.49	0.0178		
Middle	836.4	16.96	0.0497	13.10	0.0204		
Highest	848.8	16.35	0.0432	13.14	0.0206		
Limit	ERP < 7W	Res	sult	PA	SS		

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP						
Channel	Frequency	Horiz	ontal	Vertical		
Chamilei	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	826.4	12.83	0.0192	9.20	0.0083	
Middle	836.4	11.70	0.0148	8.85	0.0077	
Highest	846.6	10.75	0.0119	7.88	0.0061	
Limit	ERP < 7W	Re	sult	PASS		

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP								
Channel	Frequency	Horiz	ontal	Vertical					
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)				
Lowest	1850.2	25.46	0.3515	25.81	0.3813				
Middle	1880.0	25.04	0.3195	25.34	0.3419				
Highest	1909.8	24.43	0.2772	24.57	0.2867				
Limit	EIRP < 2W	Res	sult	PASS					

GSM1900 (EDGE class 8) Radiated Power EIRP							
Channel	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1850.2	20.94	0.1242	20.72	0.1181		
Middle	1880.0	20.58	0.1143	20.24	0.1056		
Highest	1909.8	20.55	0.1135	20.29	0.1070		
Limit	EIRP < 2W	Res	sult	PASS			

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP						
Channel	Frequency	Horiz	ontal	Vertical		
Gilaililei	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	1852.4	16.92	0.0492	17.27	0.0533	
Middle	1880.0	16.68	0.0466	17.26	0.0532	
Highest	1907.6	16.67	0.0465	16.74	0.0472	
Limit	EIRP < 2W	Result		PASS		

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP						
Channel	Frequency	Horiz	ontal	Vertical		
Channel	(MHz)	EIRP(dBm) EIRP(W)		EIRP(dBm)	EIRP(W)	
Lowest	1712.4	15.73	0.0374	15.60	0.0363	
Middle	1732.6	16.24	0.0421	15.91	0.0390	
Highest	1752.6	17.60	0.0576	17.66	0.0583	
Limit	EIRP < 1W	Result		PASS		

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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.

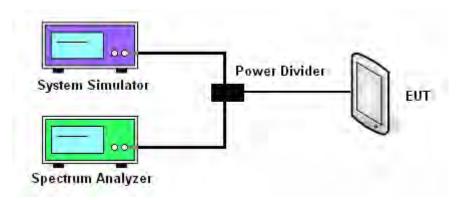
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 5. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 6. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 7. 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.
- 8. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, peak detector, trace maximum hold.
- 9. 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 Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	GSM850 (GSM)			GSM850 (EDGE class 8)			
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	247.47	247.47	244.57	250.36	248.91	253.26	
26dB BW (kHz)	315.50	315.50	316.90	311.10	295.20	308.20	

PCS Band						
Modes	GSM1900 (GSM) GSM1900 (EDGE class 8)					
Channel	512	661	810	512	661	810
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8
99% OBW (kHz)	244.57	244.57	244.57	250.36	251.81	251.81
26dB BW (kHz)	316.90	318.40	315.50	312.60	314.00	314.00

Cellular Band						
Modes	WCDMA Band V (RMC 12.2Kbps)					
Channel	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4	836.4	846.6			
99% OBW (MHz)	4.15	4.15	4.14			
26dB BW (MHz)	4.69	4.69	4.67			

AWS Band							
Modes	WCDMA Band IV (RMC 12.2Kbps)						
Channel	1312(Low) 1413 (Mid) 1513 (High)						
Frequency (MHz)	1712.4	1732.6	1752.6				
99% OBW (MHz)	4.14	4.17	4.15				
26dB BW (MHz)	4.69	4.69	4.69				

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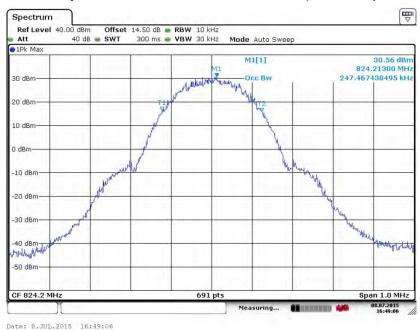
PCS Band				
Modes	WCDMA Band II (RMC 12.2Kbps)			
Channel	9262 (Low) 9400 (Mid) 9538 (High)			
Frequency (MHz)	1852.4	1880	1907.6	
99% OBW (MHz)	4.15	4.15	4.15	
26dB BW (MHz)	4.69	4.69	4.69	

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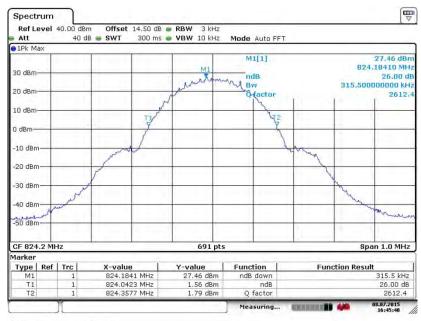
3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

Band: GSM 850 Test Mode: GSM Link (GMSK)

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



26dB Bandwidth Plot on Channel 128 (824.2 MHz)



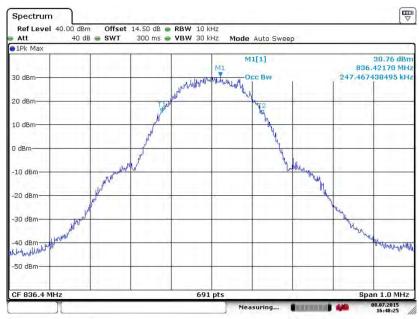
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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 38 of 119
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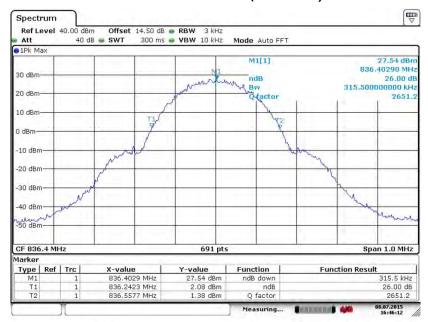


99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 8.JUL.2015 16:48:25

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

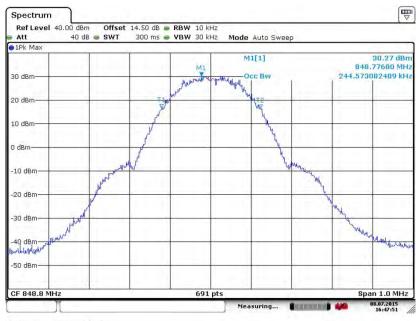


Date: 8.JUL.2015 16:46:12

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 39 of 119 Report Issued Date : Sep. 10, 2015

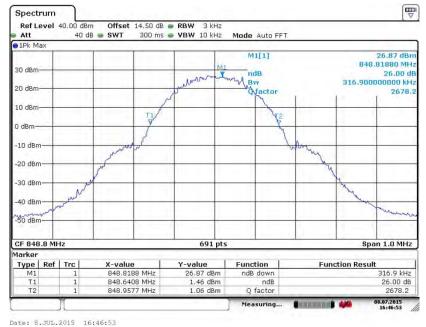
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 8.JUL.2015 16:47:52

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 8.JUL.2015 16:46:53

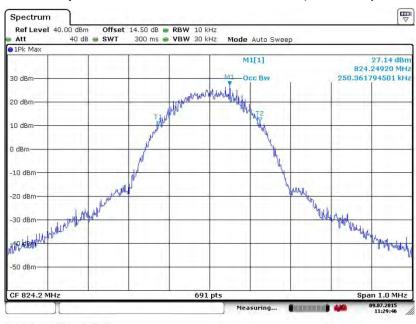
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 40 of 119
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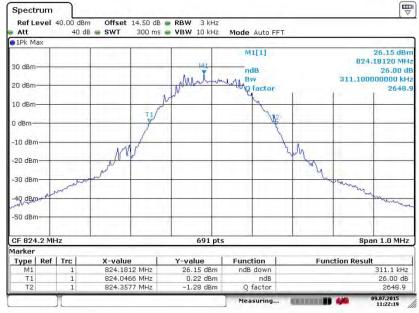
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 9.JUL.2015 11:29:46

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

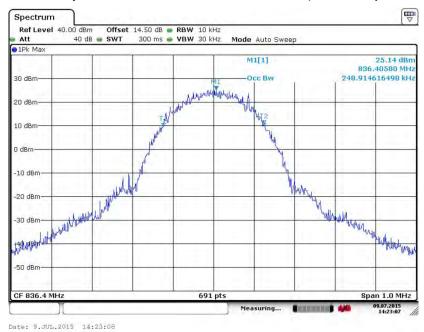


Date: 9.JUL.2015 11:22:19

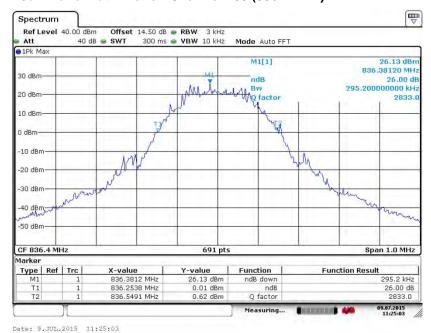
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 41 of 119
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



26dB Bandwidth Plot on Channel 189 (836.4 MHz)



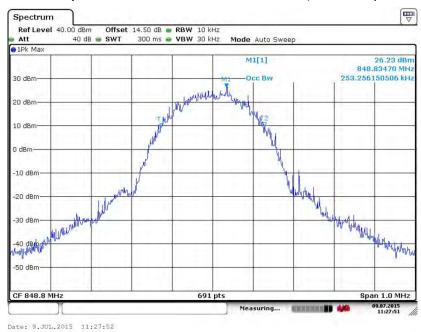
SPORTON INTERNATIONAL (SHENZHEN) INC.

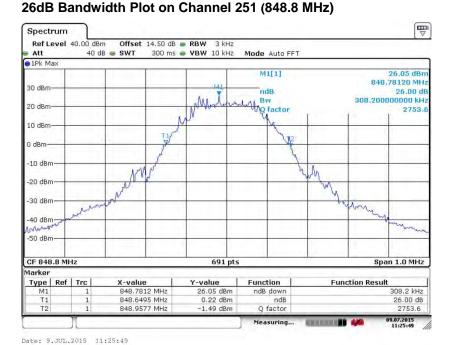
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 42 of 119 Report Issued Date : Sep. 10, 2015

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





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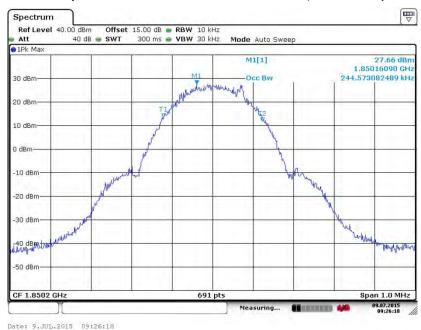
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 43 of 119 Report Issued Date : Sep. 10, 2015

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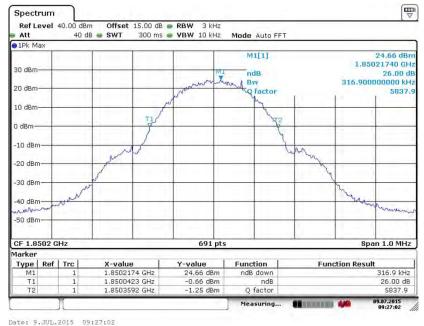
CC RF Test Report Report No. : FG570301

Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

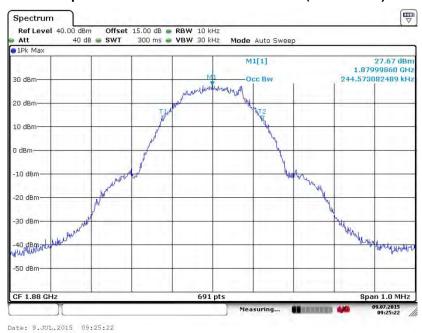


Date: 9.305.2015 09:27:02

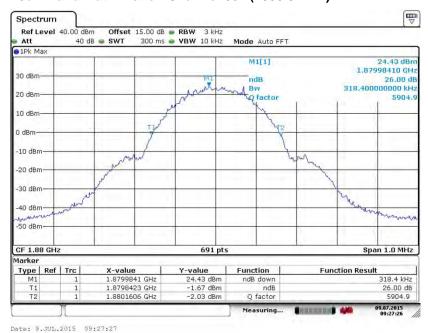
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 44 of 119
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



SPORTON INTERNATIONAL (SHENZHEN) INC.

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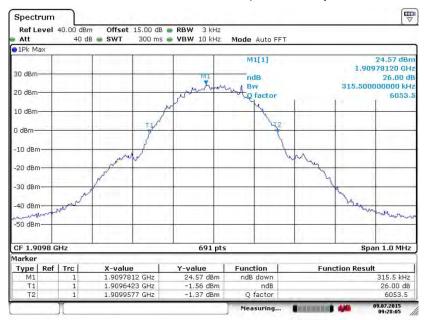


99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 9.JUL.2015 09:24:24

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



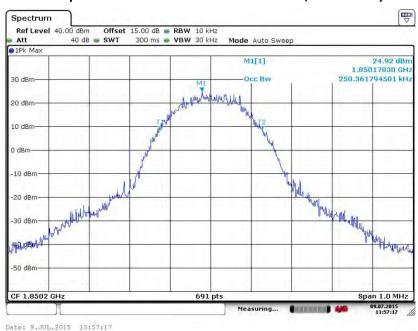
Date: 9.JUL.2015 09:28:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 46 of 119
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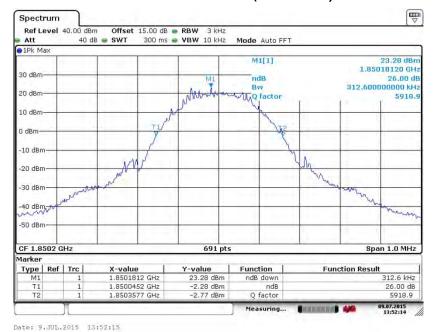
Report No.: FG570301

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

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

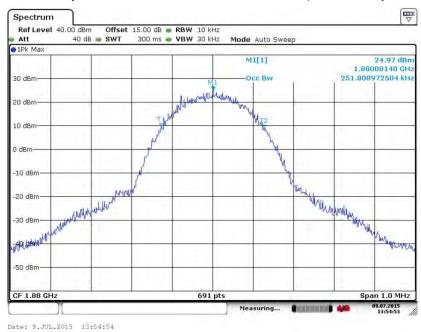


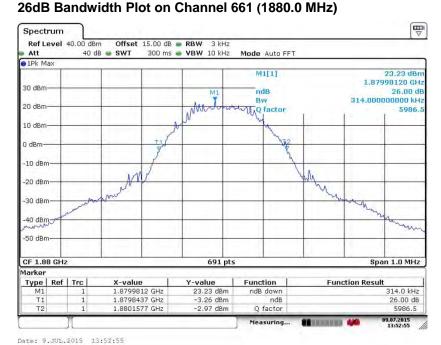
SPORTON INTERNATIONAL (SHENZHEN) INC.

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



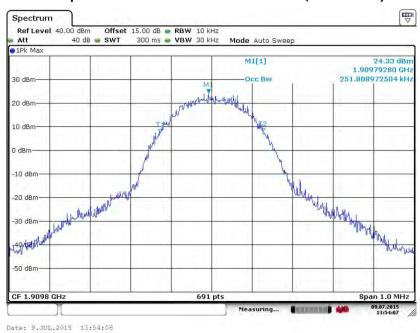


SPORTON INTERNATIONAL (SHENZHEN) INC.

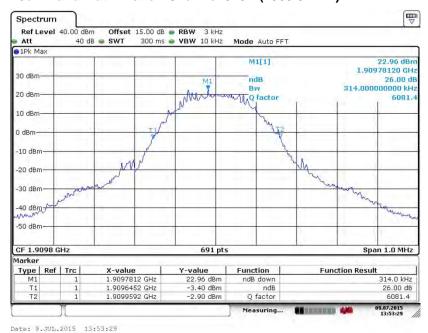
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 48 of 119
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99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

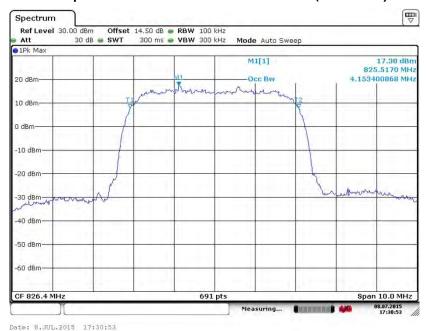


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 49 of 119
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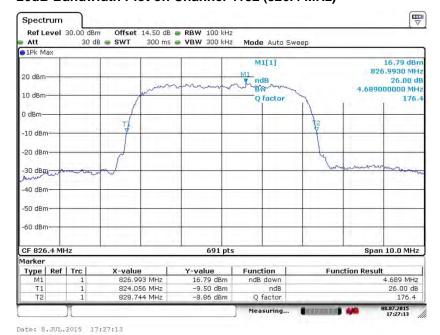
Report No.: FG570301

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

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



26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

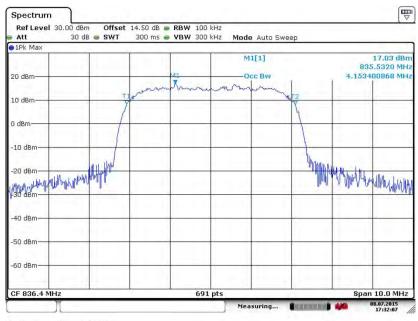


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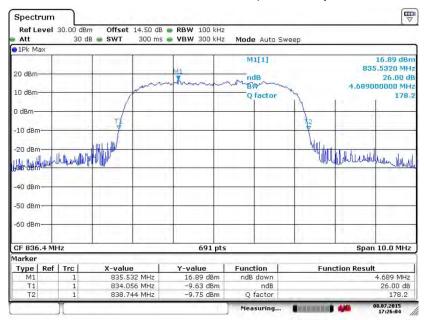
FCC RF Test Report

99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



Date: 8.JUL.2015 17:32:07

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



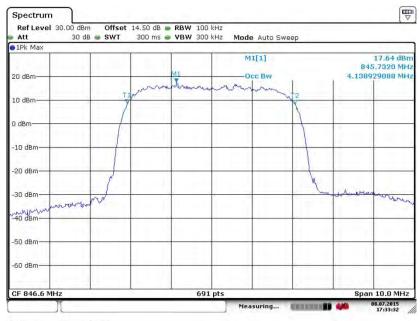
Date: 8.JUL.2015 17:26:04

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 51 of 119
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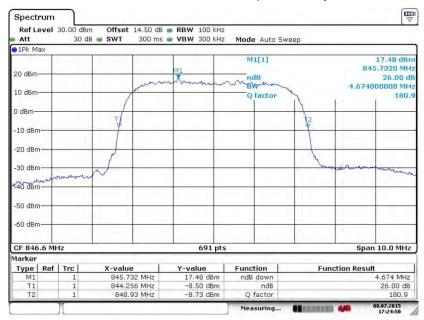
FCC RF Test Report

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



Date: 8.JUL.2015 17:33:32

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 8.JUL.2015 17:24:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 52 of 119
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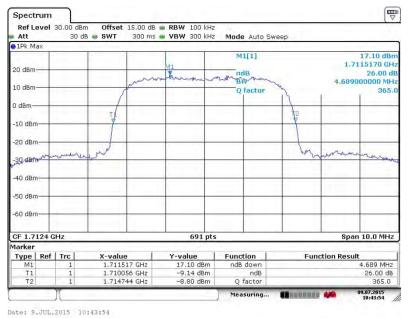
Report No.: FG570301

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

99% Occupied Bandwidth Plot on Channel 1312 (1712.4 MHz)



26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)

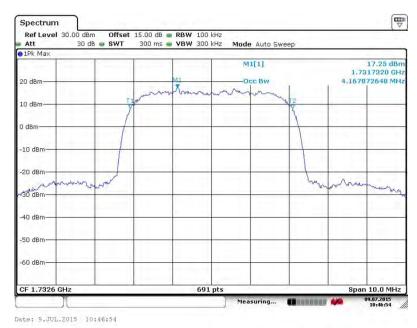


Date: 3:000:2013 10:40:34

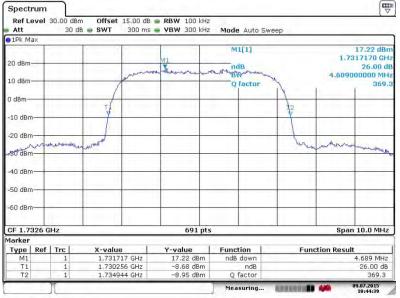
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 53 of 119
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SPORTON LAB. FCC RI

99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)

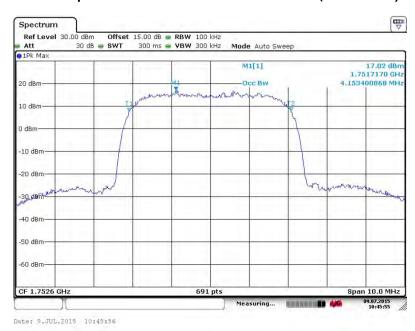


Date: 9.JUL.2015 10:44:39

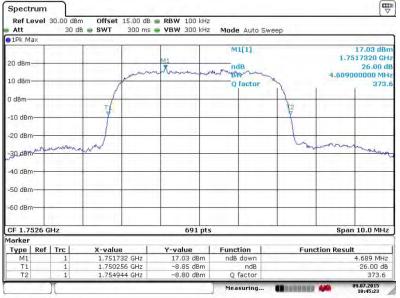
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 54 of 119
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99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



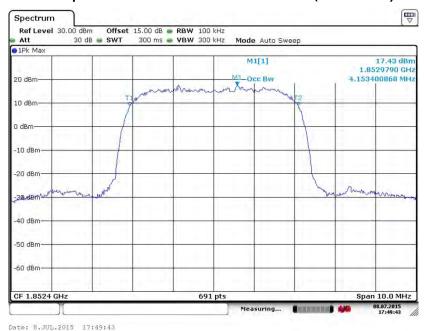
Date: 9.JUL.2015 10:45:24

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 55 of 119 Report Issued Date : Sep. 10, 2015

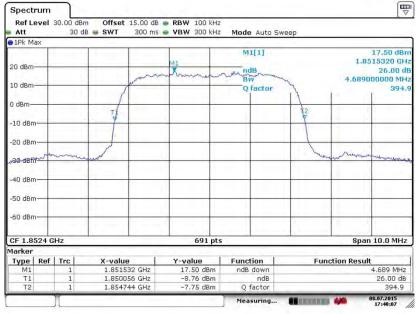
Report No.: FG570301

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

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



26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



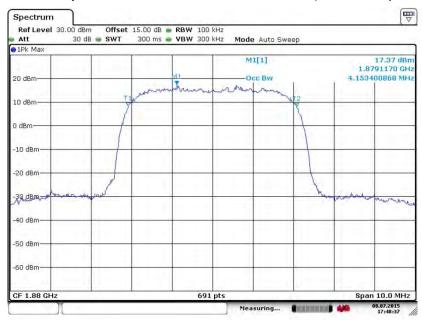
Date: 8.JUL.2015 17:40:07

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 56 of 119
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Report No.: FG570301

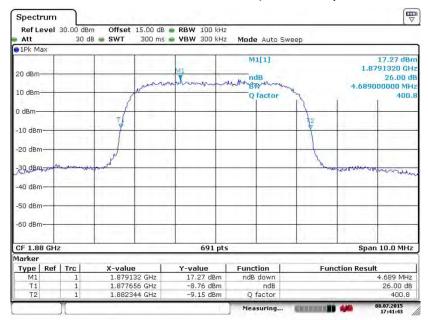
FCC RF Test Report

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



Date: 8.JUL.2015 17:48:37

26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

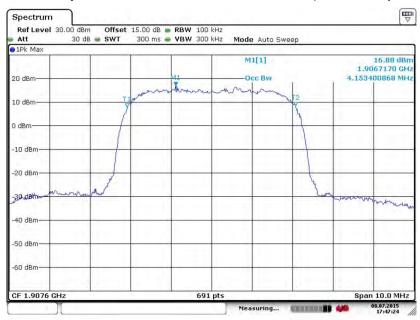


Date: 8.JUL.2015 17:41:43

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 57 of 119
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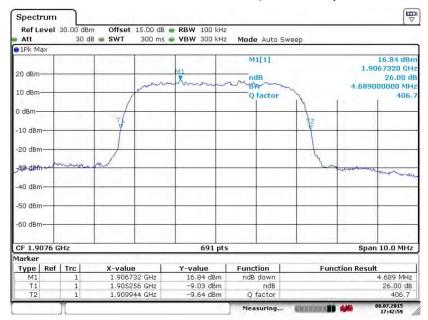
Report No.: FG570301

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



Date: 8.JUL.2015 17:47:24

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 8.JUL.2015 17:42:59

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 58 of 119 Report Issued Date: Sep. 10, 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.

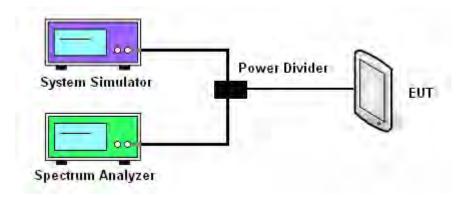
3.5.2 Measuring Instruments

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

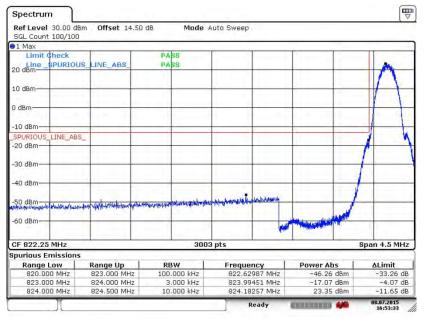


TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Report No.: FG570301

3.5.5 Test Result (Plots) of Conducted Band Edge

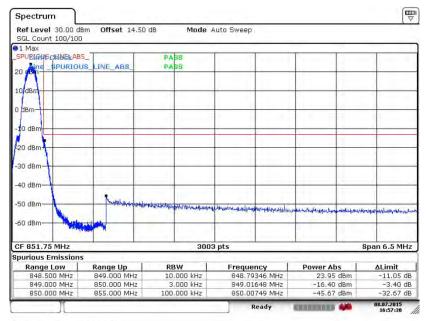
Band :	GSM850	Test Mode :	GSM Link (GMSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 8.JUL.2015 16:53:33

Higher Band Edge Plot on Channel 251 (848.8 MHz)



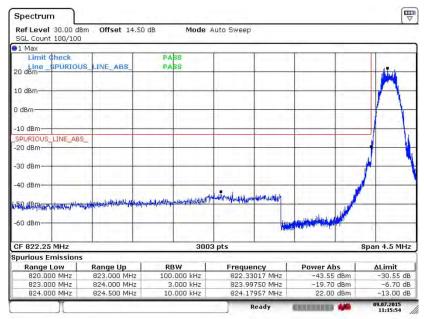
Date: 8.JUL.2015 16:57:30

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 60 of 119
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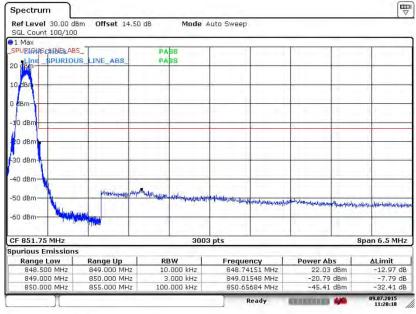
Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 9.JUL.2015 11:15:55

Higher Band Edge Plot on Channel 251 (848.8 MHz)



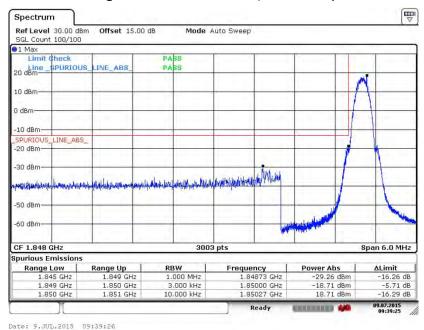
Date: 9.JUL.2015 11:20:19

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 61 of 119
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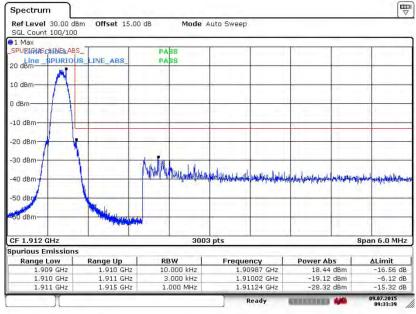
Report No. : FG570301

Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Higher Band Edge Plot on Channel 810 (1909.8 MHz)



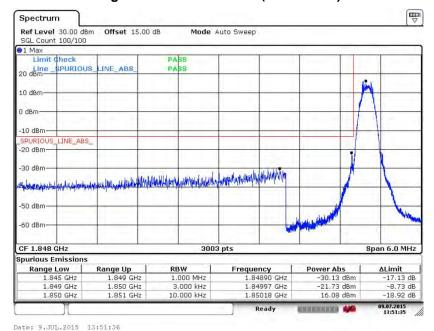
Date: 9.JUL.2015 09:33:39

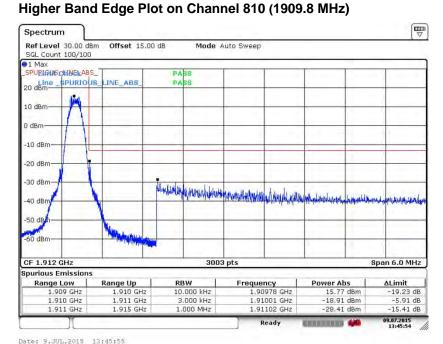
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 62 of 119 Report Issued Date : Sep. 10, 2015

Report No. : FG570301

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

Lower Band Edge Plot on Channel 512 (1850.2 MHz)



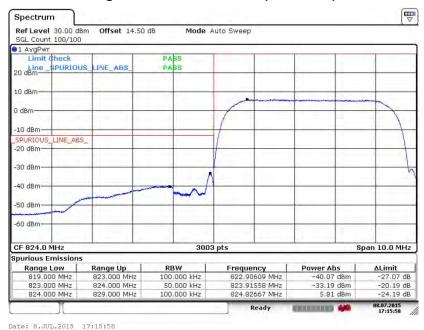


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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Higher Band Edge Plot on Channel 4233 (846.6 MHz)

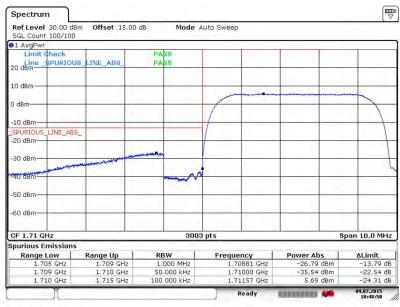


Date: 8.JUL.2015 17:15:02

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 64 of 119
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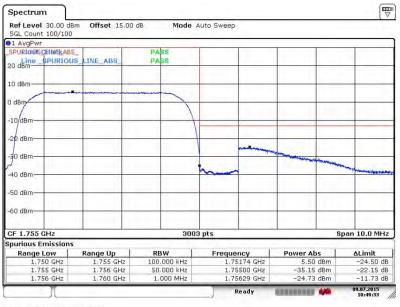
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 1312 (1712.4 MHz)



Date: 9.JUL.2015 10:48:50

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)



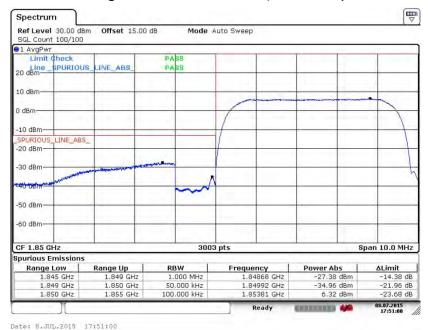
Date: 9.JUL.2015 10:49:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 65 of 119
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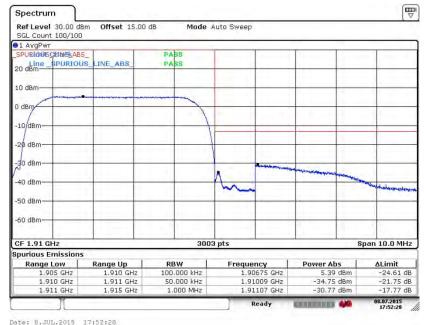
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



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Date: 8.305.2015 1/:52:28

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II

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.

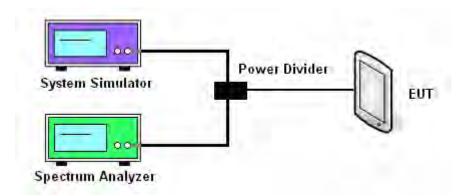
3.6.2 Measuring Instruments

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.
- 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



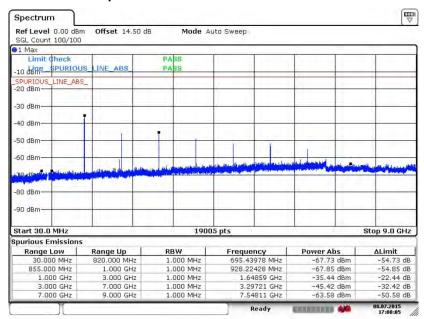
SPORTON INTERNATIONAL (SHENZHEN) INC.

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3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM850	Channel:	CH128
Test Mode :	GSM Link (GMSK)	Frequency:	824.2 MHz

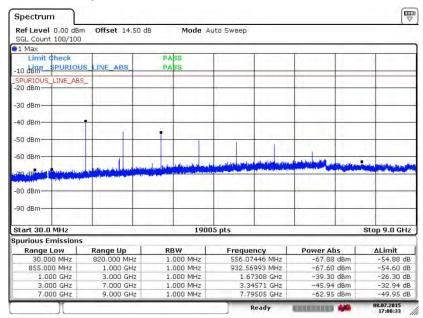
Conducted Spurious Emission Plot between 30MHz ~ 9GHz



Date: 8.JUL.2015 17:00:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 68 of 119
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Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

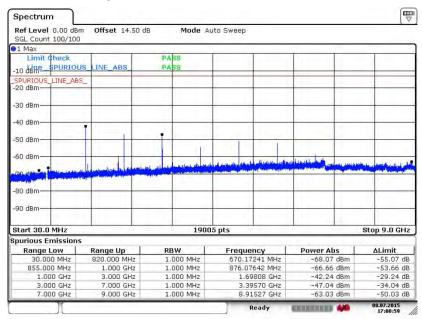


Date: 8.JUL.2015 17:00:33

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 69 of 119
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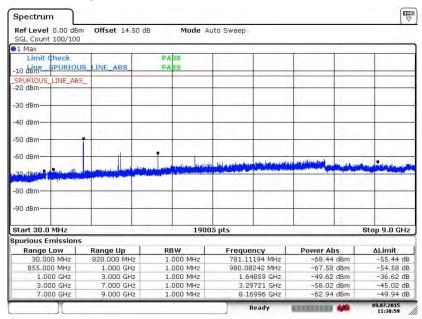
Band :	GSM850	Channel:	CH 251
Test Mode :	GSM Link (GMSK)	Frequency:	848.8 MHz



Date: 8.JUL.2015 17:00:59

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 70 of 119
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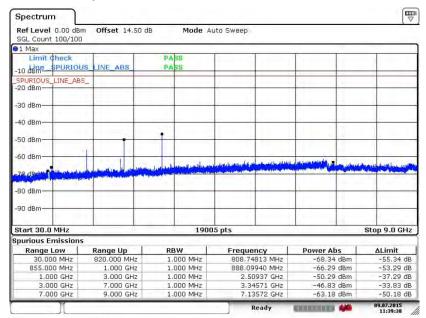
Band :	GSM850	Channel:	CH128
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	824.2 MHz



Date: 9.JUL.2015 11:39:00

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 71 of 119
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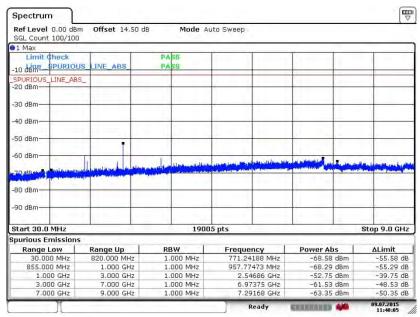
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz



Date: 9.JUL.2015 11:39:38

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 72 of 119
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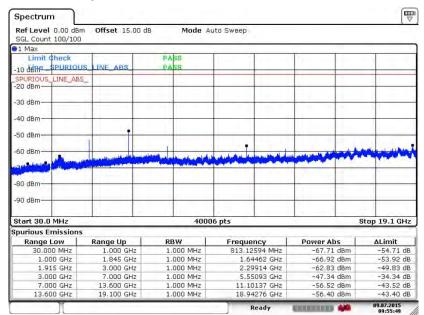
Band :	GSM850	Channel:	CH251
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	848.8 MHz



Date: 9.JUL.2015 11:40:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 73 of 119
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Band :	GSM1900	Channel:	CH512
Test Mode :	GSM Link (GMSK)	Frequency:	1850.2 MHz



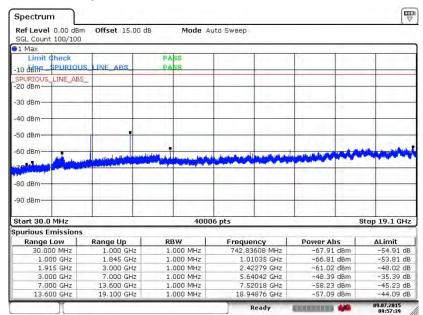
Date: 9.JUL.2015 09:55:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 74 of 119
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Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz



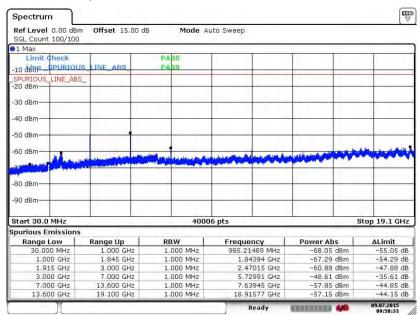
Date: 9.JUL.2015 09:57:40

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 75 of 119
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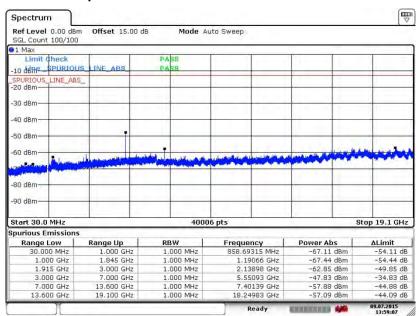
Band :	GSM1900	Channel:	CH810
Test Mode :	GSM Link (GMSK)	Frequency:	1909.8 MHz



Date: 9.JUL.2015 09:58:33

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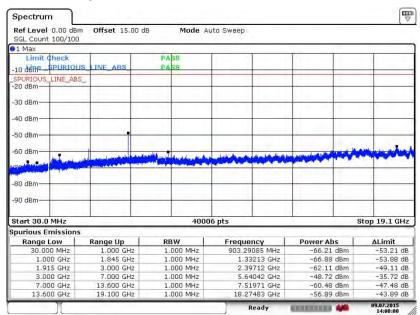
Band :	GSM1900	Channel:	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1850.2 MHz



Date: 9.JUL.2015 13:59:07

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 77 of 119
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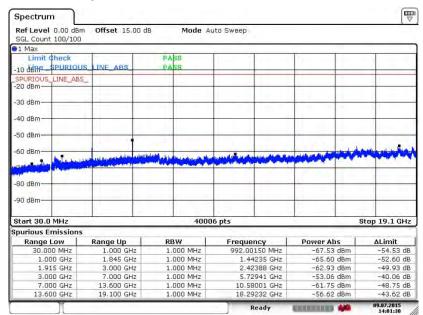
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz



Date: 9.JUL.2015 14:00:00

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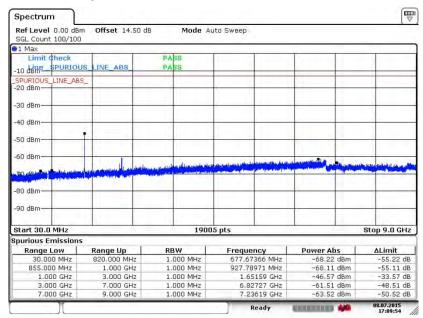
Band :	GSM1900	Channel:	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1909.8 MHz



Date: 9.JUL.2015 14:01:30

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 79 of 119
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Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



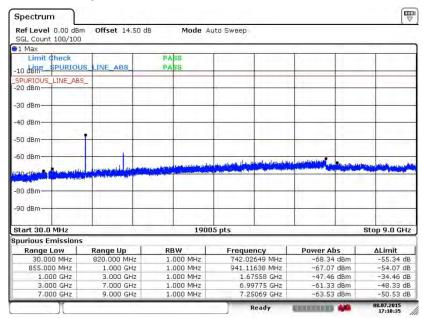
Date: 8.JUL.2015 17:09:54

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 80 of 119 Report Issued Date : Sep. 10, 2015

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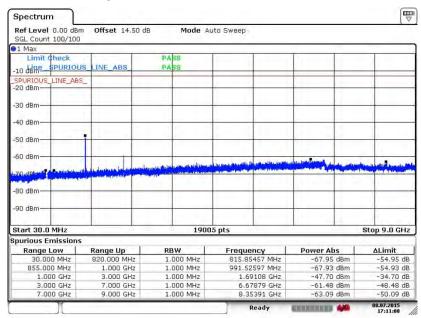
Band:	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz



Date: 8.JUL.2015 17:10:35

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Band :	WCDMA Band V	Channel:	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	846.6 MHz



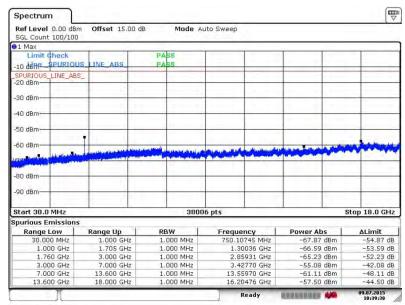
Date: 8.JUL.2015 17:11:08

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 82 of 119 Report Issued Date : Sep. 10, 2015

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Band :	WCDMA Band IV	Channel:	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1712.4 MHz



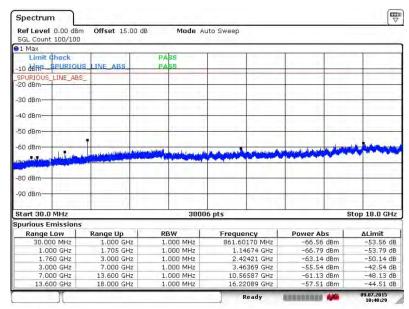
Date: 9.JUL.2015 10:39:39

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 83 of 119 Report Issued Date : Sep. 10, 2015

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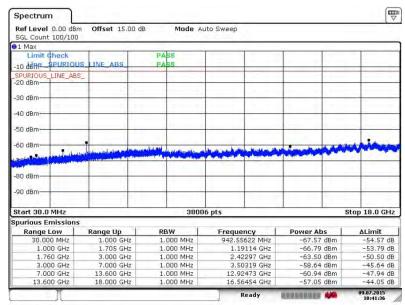
Band:	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz



Date: 9,JUL,2015 10:40:29

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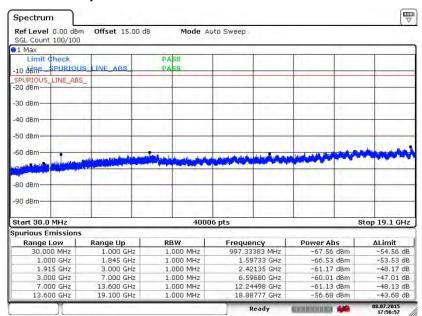
Band :	WCDMA Band IV	Channel:	CH1513
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1752.6 MHz



Date: 9.JUL.2015 10:41:36

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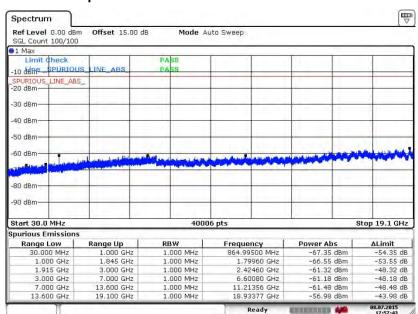
Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.4MHz



Date: 8.JUL.2015 17:56:57

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 86 of 119
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Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz



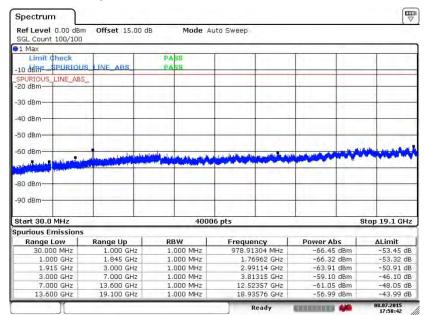
Date: 8.JUL.2015 17:57:42

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUSTUDIO7II Page Number : 87 of 119
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Band :	WCDMA Band II	Channel:	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1907.6 MHz



Date: 8.JUL.2015 17:58:42

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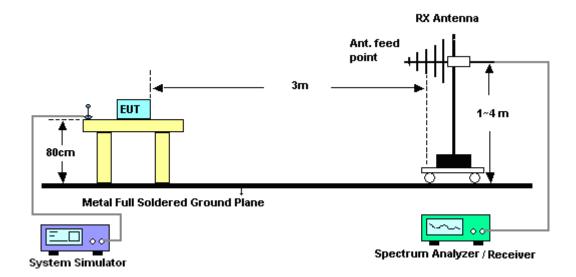
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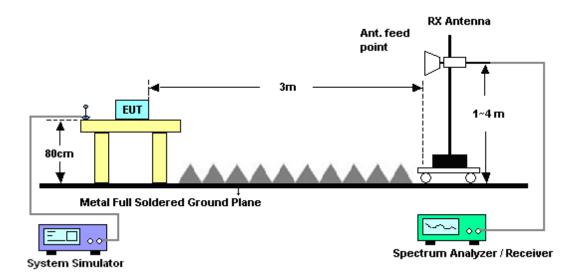
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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 :		GS	M850 fo	r CH128			Temperature	:	23~25°C			
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity:	48~52%			
Test Engine	er :	Jeff	Yao				Polarization :			Horizontal		
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	IB below limit	t line.	
Frequency	ER	Р	P Limit Over SPA S.G			S.G.	TX Cable	TX Ant	tenna	Polarization	Result	
(MHz)	(dBr	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)		
1648.4	-38.	83	-13	-25.83	-55.52	-45.51	0.57	9.4	10	Н	Pass	
2472.6	-37.	42	-13	-24.42	-62.12	-45.12	0.75	10.	60	Н	Pass	
3296.8	-57.	75	-13	-44.75	-68.35	-67.33	0.87	12.	60	Н	Pass	

Band :	(GSM8	350 for	· CH128			Temperature	:	23~25°C		
Test Mode :	(GSM	Link (0	GMSK)			Relative Hun	nidity:	48~52%		
Test Engine	er:	Jeff Ya	ao				Polarization	Vertical			
Remark :	Ş	Spurio	ous en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	t line.
Frequency	ERF				S.G. Power	TX Cable loss	TX Ant		Polarization	Result	
(MHz)	(dBn	n) (d	dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1648.4	-46.0)1 -	-13	-33.01	-59.27	-52.69	0.57	9.4	0	V	Pass
2472.6	-38.4	l6 -	-13	-25.46	-60.89	-46.16	0.75	10.	60	V	Pass
3296.8	-56.6	67 -	-13	-43.67	-68.50	-66.25	0.87	12.	60	V	Pass

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Band :		GS	M850 fo	r CH189			Temperature	:	23~25°C			
Test Mode :		GS	M Link (GMSK)			Relative Humidity : 4			48~52%		
Test Engine	er:	Jeff	Yao				Polarization	:	Horizontal			
Remark :		Spı	urious er	missions	within 30-1	1000MHz	were found n	nore tha	n 20c	B below limi	t line.	
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result	
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBı	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1672	-44.	66	-13	-31.66	-60.63	-51.34	0.57	9.4	0	Н	Pass	
2510	-32.	05	-13	-19.05	-57.24	-39.75	0.75	10.	60	Н	Pass	
3346	-58.	02	-13	-45.02	-68.62	-67.60	0.87	12.	60	Н	Pass	

Band :		GSI	M850 fo	r CH189			Temperature	23~25°C			
Test Mode :		GSI	M Link (GMSK)			Relative Hum	48~52%			
Test Engine	er:	Jeff	Jeff Yao Polarization : Vertical						al		
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	t line.
Frequency (MHz)	ERF		Limit	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)		TX Ant Ga (dE	in	Polarization (H/V)	Result
1672	-53.6	65	-13	-40.65	-65.10	-60.33	, ,	9.4		V	Pass
2510	-38.	14	-13	-25.14	-60.61	-45.84	0.75	10.	60	V	Pass
3346	-57.0	80	-13	-44.08	-68.91	-66.66	0.87	12.	60	V	Pass

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Band :		GS	M850 fo	r CH251			Temperature	:	23~2	5°C	
Test Mode :		GS	M Link (GMSK)			Relative Hur	nidity :	48~52%		
Test Engine	er:	Jeff Yao Polarization : Ho					Horiz	ontal			
Remark :		Spu	ırious er	nissions	within 30-	1000MHz	were found n	nore tha	n 20c	B below limit	t line.
Frequency	ER	P	P Limit Over SPA S.G. Limit Reading Powe				TX Cable loss	TX An	tenna Polarization Result		
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)		(dE		(H/V)	
1697.6	-38.	40	-13	-25.40	-55.14	-45.08	0.57	9.4	10	Н	Pass
2546.4	-31.	79	-13	-18.79	-56.99	-39.49	0.75	10.	60	Н	Pass
3395.2	-57.	58	-13	-44.58	-68.18	-67.16	0.87	12.	60	Н	Pass

				2112-1			_				
Band :		GS	M850 fo	r CH251			Temperature	:	23~25°C		
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity:	48~52%		
Test Engine	er:	Jef	Jeff Yao Polarization : Vertical						cal		
Remark :		Sp	urious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limit	t line.
Frequency	ERI	Р	P Limit Over		SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1697.6	-47.	13	-13	-34.13	-60.01	-53.81	0.57	9.4	10	V	Pass
2546.4	-37.3	38	-13	-24.38	-59.88	-45.08	0.75	10.	60	V	Pass
3395.2	-57.	11	-13	-44.11	-68.94	-66.69	0.87	12.	60	V	Pass

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Band :		GSM850	for CH128			Temperature : 23-			3~25°C		
Test Mode	:	EDGE cla	ass 8 Link	(8PSK)		Relative Humidity: 48~52%					
Test Engine	eer:	Jeff Yao				Polarization :			Horizontal		
Remark :		Spurious	emissions	within 30-	1000MHz	were found m	nore tha	n 20d	B below limit	line.	
Frequency	ER	P Limi	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dBm) (dB)	(dBm)	(dBm)) (dB)	(dE	Bi)	(H/V)		
1648.4	-36.2	27 -13	-23.27	-53.13	-42.95	0.57	9.4	0	Н	Pass	
2472.6	-45.	52 -13	-32.52	-68.42	-53.22	0.75	10.	60	Н	Pass	
3296.8	-58.	46 -13	-45.46	-69.06	-68.04	0.87	12.	60	Н	Pass	

Band :		GSM850 fc	r CH128			Temperature	:	23~25°C			
Test Mode	: 1	EDGE clas	s 8 Link (8PSK)		Relative Hum	idity:	48~52%			
Test Engine	eer :	Jeff Yao				Polarization		Vertic	Vertical		
Remark :	\$	Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	ERF	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dB		(H/V)		
1648.4	-43.5	53 -13	-30.53	-56.88	-50.21	0.57	9.4	.0	V	Pass	
2472.6	-48.6	88 -13	-35.68	-69.03	-56.38	0.75	10.0	60	V	Pass	
3296.8	-56.9	93 -13	-43.93	-68.76	-66.51	0.87	12.0	60	V	Pass	

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Band :		GSM85	0 for	CH189			Temperature	:	23~25°C			
Test Mode	:	EDGE o	lass	8 Link (8PSK)		Relative Hum	nidity:	48~5	52%		
Test Engine	eer :	Jeff Yac)				Polarization :		Horiz	ontal		
Remark :		Spuriou	s em	issions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	ER	P Lin	nit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dB	m)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1672	-38.	12 -1	3 -	25.12	-54.89	-44.80	0.57	9.4	0	Н	Pass	
2510	-32.	95 -1	3 -	19.95	-58.14	-40.65	0.75	10.	60	Н	Pass	
3346	-57.	15 -13 -44.15 -67.75 -66.					0.87	12.	60	Н	Pass	

Band :	(GSM850 fc	r CH189			Temperature	:	23~25°C		
Test Mode	: E	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer :	Jeff Yao				Polarization		Vertic	al	
Remark :	9	Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP						enna	Polarization	Result	
(MHz)	(dBm	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
1672	-49.1	6 -13	-36.16	-61.99	-55.84	0.57	9.4	0	V	Pass
2510	-36.6	60 -13	-23.60	-59.12	-44.30	0.75	10.	60	V	Pass
3346	-56.7	78 -13 -43.78 -68.61 -66.3				0.87	12.	60	V	Pass

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Band :		GSM	1850 fo	r CH251			Temperature	:	23~25°C			
Test Mode	:	EDG	E class	8 Link (8PSK)		Relative Hum	idity:	48~5	2%		
Test Engine	eer:	Jeff `	Yao				Polarization :		Horiz	zontal		
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	ERI	RP Limit Over SPA S.G. TX Cable TX An							enna	Polarization	Result	
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
1697.6	-36.	19	-13	-23.19	-53.06	-42.87	0.57	9.4	0	Н	Pass	
2546.4	-39.1	13	-13	-26.13	-63.40	-46.83	0.75	10.0	60	Н	Pass	
3395.2	-57.6	64 -13 -44.64 -68.24 -67.					0.87	12.0	60	Н	Pass	

Band :		GSM850 fc	r CH251			Temperature	:	23~25°C			
Test Mode	: 1	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~5	8~52%		
Test Engine	eer :	Jeff Yao				Polarization :		Vertic	al		
Remark :	\$	Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	ERF						Polarization	Result			
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
1697.6	-46.6	66 -13	-33.66	-59.67	-53.34	0.57	9.4	.0	V	Pass	
2546.4	-40.1	17 -13	-27.17	-62.40	-47.87	0.75	10.	60	V	Pass	
3395.2	-56.7	74 -13	4 -13 -43.74 -68.			0.87	12.	60	V	Pass	

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Band :		GS	M1900 f	or CH51	2		Temperature	:	23~2	5°C	
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity:	48~5	2%	
Test Engine	er :	Jeff	Yao				Polarization	:	Horiz	ontal	
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	IB below limit	t line.
Frequency (MHz)	EIR (dBr	Limit Reading Po		S.G. Power (dBm)		TX Ant Ga (dE	in	Polarization (H/V)	Result		
3700.4	-29.4	41	-13	-16.41	-64.45	-41.14	0.87	12.	60	Н	Pass
5550.6	-40.	54	-13	-27.54	-70.86	-52.57	1.07	13.	10	Н	Pass
7400.8	-39.3	31	-13	-26.31	-71.19	-48.74	1.87	11.3	30	Н	Pass

				01.15.4			_					
Band :		GS	M1900 f	or CH51	2		Temperature	:	23~2	5°C		
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity:	48~5	2%		
Test Engine	er:	Jeff	f Yao				Polarization	:	Vertic	Vertical		
Remark :		Spu	urious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	IB below limi	t line.	
Frequency	EIR	Р	,			S.G.	TX Cable	TX An	tenna	Polarization	Result	
				Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
3700.4	-30.	55	-13	-17.55	-63.77	-42.28	0.87	12	.6	V	Pass	
5550.6	-37.9	94	-13	-24.94	-70.12	-49.97	1.07	13	.1	V	Pass	
7400.8	-37.0	05	-13	-24.05	-70.86	-46.48	1.87	11	.3	V	Pass	

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Band :		GS	M1900 f	or CH66	1		Temperature	:	23~25°C			
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity :	48~5	2%		
Test Engine	er:	Jeff	Yao				Polarization	:	Horiz	Horizontal		
Remark :		Spu	urious er	missions	within 30-1	1000MHz	were found m	nore tha	n 20c	IB below limit	t line.	
Frequency	EIR	Р					TX Cable	TX Ant	enna	Polarization	Result	
(MHz)	(dBı	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
3760	-32.	57	-13	-19.57	-66.67	-44.30	0.87	12.	60	Н	Pass	
5640	-39.	94	-13	-26.94	-70.27	-51.97	1.07	13.	10	Н	Pass	
7520	-39.	9.47 -13 -26.47			-71.30	-48.90	1.87	11.3	30	Н	Pass	

Band :		GS	M1900 f	or CH66	1		Temperature	:	23~25°C		
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity :	48~5	2%	
Test Engine	er:	Jef	f Yao				Polarization	:	Vertical		
Remark :		Spi	urious er	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-32.	70	-13	-19.70	-65.01	-44.43	0.87	12	.6	V	Pass
5640	-37.	97	-13	-24.97	-70.16	-50.00	1.07	13	.1	V	Pass
7520	-37.	45 -13 -24.45 -71.01 -46				-46.88	1.87	11.	.3	V	Pass

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Band :		GS	M1900 f	or CH81	0		Temperature	:	23~25°C		
Test Mode :		GS	M Link (GMSK)			Relative Hun	nidity :	48~5	52%	
Test Engine	er:	Jeff	Yao				Polarization	:	Horiz	zontal	
Remark :		Spı	ırious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20c	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBı	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE		(H/V)	
3819.6	-29.	36	-13	-16.36	-64.39	-41.09	0.87	12.	60	Н	Pass
5729.4	-39.	42	-13	-26.42	-69.87	-51.45	1.07	13.	10	Н	Pass
7639.2	-38.07 -13 -25.07 -70.58 -4				-47.50	1.87	11.3	30	Н	Pass	

Band :		GSM ²	1900 f	or CH810)		Temperature	:	23~25°C		
Test Mode :		GSM	Link (GMSK)			Relative Hun	nidity :	48~5	2%	
Test Engine	er:	Jeff Y	′ao				Polarization	:	Vertical		
Remark :		Spuri	ous en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	t line.
Frequency (MHz)	EIRI (dBn	Limit Reading Power		S.G. Power (dBm)		TX Ant Ga (dE	in	Polarization (H/V)	Result		
3819.6	-29.5	54	-13	-16.54	-62.83	-41.27	0.87	12	.6	V	Pass
5729.4	-39.0	03	-13	-26.03	-70.54	-51.06	1.07	13	.1	V	Pass
7639.2	.2 -38.49 -13			-25.49	-71.55	-47.92	1.87	11.	.3	V	Pass

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Band :		GSM1900	for CH51	2		Temperature	:	23~25°C		
Test Mode	:	EDGE clas	s 8 Link ((8PSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	eer:	Jeff Yao				Polarization :		Horiz	ontal	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	RP Limit Over SPA S.G. TX Cable TX Antenna Polarization							Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3700.4	-32.6	31 -13	-19.61	-66.69	-44.34	0.87	12.0	60	Н	Pass
5550.6	-40.2	21 -13	-27.21	-70.53	-52.24	1.07	13.	10	Н	Pass
7400.8	-37.4	12 -13	-24.42	-70.24	-46.85	1.87	11.3	30	Н	Pass

Band :	(GSM1900 t	or CH51	2		Temperature	:	23~25°C			
Test Mode	: 1	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~52	2%		
Test Engine	eer :	Jeff Yao				Polarization		Vertic	ertical		
Remark :	,	Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	EIRI							Polarization	Result		
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
3700.4	-31.0	00 -13	-18.00	-64.22	-42.73	0.87	12	6	V	Pass	
5550.6	-39.3	34 -13	-26.34	-70.73	-51.37	1.07	13	.1	V	Pass	
7400.8	-37.4	12 -13	-24.42	-71	-46.85	1.87	11.	3	V	Pass	

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Band :		GSN	/11900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode	:	EDG	SE class	8 Link (8PSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer :	Jeff	Yao				Polarization :		Horiz	ontal	
Remark :		Spu	rious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n) ((dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3760	-37.	76	-13	-24.76	-68.85	-49.49	0.87	12.	60	Н	Pass
5640	-40.2	21	-13	-27.21	-70.53	-52.24	1.07	13.	10	Н	Pass
7520	-38.	70	-13	-25.70	-70.85	-48.13	1.87	11.3	30	Н	Pass

Band :	(GSM1900 1	or CH66	1		Temperature	:	23~2	5°C	
Test Mode	:	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~52	2%	
Test Engine	eer :	Jeff Yao				Polarization :		Vertic	al	
Remark :		Spurious e	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3760	-31.9	91 -13	-18.91	-64.63	-43.64	0.87	12	.6	V	Pass
5640	-37.8	31 -13	-24.81	-69.92	-49.84	1.07	13	.1	V	Pass
7520	-37.1	16 -13	-24.16	-70.9	-46.59	1.87	11.	3	V	Pass

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Band :		GSM190	00 for C	:H810			Temperature	:	23~2	5°C	
Test Mode	:	EDGE c	lass 8 l	_ink (8	BPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	eer:	Jeff Yao					Polarization	:	Horiz	ontal	
Remark :		Spurious	s emiss	ions v	vithin 30-1	000MHz	were found n	nore tha	n 20d	B below limit	line.
Frequency	EIR	P Lim	it O	ver	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Li	mit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBr	n) (d	B)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3819.6	-32.2	21 -13	3 -19	.21	-66.46	-43.94	0.87	12.	60	Н	Pass
5729.4	-39.4	44 -13	3 -26	6.44	-69.89	-51.47	1.07	13.	10	Н	Pass
7639.2	-39.5	51 -13	3 -26	3.51	-71.33	-48.94	1.87	11.3	30	Н	Pass

Band :	(GSM1900 1	or CH81)		Temperature	:	23~2	5°C	
Test Mode	: 1	EDGE clas	s 8 Link (8PSK)		Relative Hum	nidity :	48~5	2%	
Test Engine	eer :	Jeff Yao				Polarization		Vertic	al	
Remark :		Spurious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRI	P Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBn	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3819.6	-39.1	8 -13	-26.18	-69.22	-50.91	0.87	12	6	V	Pass
5729.4	-37.6	9 -13	-24.69	-69.74	-49.72	1.07	13	.1	V	Pass
7639.2	-38.9	94 -13	-25.94	-71.55	-48.37	1.87	11.	3	V	Pass

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Band :		WC	DMA Ba	and V for	CH4132		Temperature	:	23~2	5°C	
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Jeff	Yao				Polarization	:	Horiz	ontal	
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found n	nore tha	n 20d	IB below limit	t line.
Frequency (MHz)	ERI (dBr		Limit	Over Limit (dB)	SPA Reading (dBm)	S.G. Power	TX Cable loss (dB)	TX Ant Ga (dE	in	Polarization (H/V)	Result
1652.8	-52.3		-13	-39.33	-65.89	-59.01	, ,	9.4	•	H	Pass
2479.2	-46.	59	-13	-33.59	-69.27	-54.29	0.75	10.	60	Н	Pass
3305.6	-57.9	93	-13	-44.93	-68.53	-67.51	0.87	12.	60	Н	Pass

Band :	V	VCDMA B	and V for	CH4132		Temperature	::	23~2	5°C	
Test Mode :	F	RMC 12.2h	Kbps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er: J	eff Yao				Polarization	:	Vertic	cal	
Remark :	S	Spurious e	missions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	it line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1652.8	-57.0	0 -13	-44.00	-67.63	-63.68	0.57	9.4	Ю	V	Pass
2479.2	-49.2	3 -13	-36.23	-69.42	-56.93	0.75	10.	60	V	Pass
3305.6	-57.1	1 -13	-44.11	-68.94	-66.69	0.87	12.	60	V	Pass

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Band :		WC	DMA Ba	and V for	CH4182		Temperature	:	23~2	25°C	
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	52%	
Test Engine	er :	Jef	f Yao				Polarization	:	Horiz	zontal	
Remark :		Spı	urious er	missions	within 30-1	1000MHz	were found n	nore tha	n 20c	dB below limi	t line.
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-52.	80	-13	-39.08	-65.64	-58.76	0.57	9.4	-0	Н	Pass
2510	-46.	15	-13	-33.15	-68.93	-53.85	0.75	10.	60	Н	Pass
3346	-57.	51	-13	-44.51	-68.11	-67.09	0.87	12.	60	Н	Pass

Band :	V	VCDMA Ba	and V for	CH4182		Temperature	:	23~2	5°C	
Test Mode :	R	RMC 12.2K	lbps Link	(QPSK)		Relative Hun	nidity :	48~5	2%	
Test Engine	er: J	eff Yao				Polarization	:	Vertic	cal	
Remark :	S	Spurious er	missions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limi	t line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-57.1	3 -13	-44.13	-67.76	-63.81	0.57	9.4	Ю	V	Pass
2510	-49.3	0 -13	-36.30	-69.46	-57.00	0.75	10.	60	V	Pass
3346	-57.2	1 -13	-44.21	-69.04	-66.79	0.87	12.	60	V	Pass

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Band :		WC	DMA Ba	and V for	CH4233		Temperature	:	23~2	5°C	
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Jeff	Yao				Polarization	:	Horiz	ontal	
Remark :		Spu	ırious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limit	t line.
Frequency	ER	Р	Limit	Over	SPA	S.G.	TX Cable	TX An		Polarization	Result
(MHz)	(dBr	n)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
1693.2	-49.	87	-13	-36.87	-64.58	-56.55	0.57	9.4	Ю	Н	Pass
2539.8	-46.	41	-13	-33.41	-69.13	-54.11	0.75	10.	60	Н	Pass
3386.4	-57.	86	-13	-44.86	-68.46	-67.44	0.87	12.	60	Н	Pass

Band :	V	VCDMA B	and V for	CH4233		Temperature	:	23~2	5°C	
Test Mode :	F	MC 12.2k	(bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er: J	eff Yao				Polarization	:	Vertic	cal	
Remark :	S	purious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limi	it line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	tenna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1693.2	-58.3	4 -13	-45.34	-68.97	-65.02	0.57	9.4	10	V	Pass
2539.8	-48.7	9 -13	-35.79	-69.11	-56.49	0.75	10.	60	V	Pass
3386.4	-56.5	9 -13	-43.59	-68.42	-66.17	0.87	12.	60	V	Pass

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Band :		WCE	DMA Ba	ınd IV foı	CH1312		Temperature	:	23~2	5°C	
Test Mode :		RMC	2 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er:	Jeff `	Yao				Polarization	:	Horiz	ontal	
Remark :		Spur	rious en	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	IB below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable			Polarization	Result
(MHz)	(dBr	n) (dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3424.8	-29.4	48	-13	-16.48	-60.52	-41.27	0.81	12.	60	Н	Pass
5137.2	-39.8	84	-13	-26.84	-69.36	-51.59	0.95	12.	70	Н	Pass
6849.6	-40.9	99	-13	-27.99	-71.39	-51.56	1.13	11.	70	Н	Pass

Band :	V	/CDMA B	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode :	F	MC 12.2k	Kbps Link	(QPSK)		Relative Hum	nidity:	48~5	2%	
Test Engine	er: J	eff Yao				Polarization	:	Vertic	al	
Remark :	S	purious e	missions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limi	it line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
/ NALL- \										
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE		(H/V)	
3424.8	-33.3	, , ,	(dB) -20.39	(dBm) -62.18	(dBm)	· · · · · ·		Bi)	(H/V) V	Pass
, ,	•	9 -13	, ,	, ,	, ,	0.81	(dE	Bi) 60	, ,	Pass Pass

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Band :		WC	DMA Ba	and IV fo	r CH1413		Temperature	:	23~25°C			
Test Mode :		RM	C 12.2K	bps Link	(QPSK)		Relative Humidity: 4			48~52%		
Test Engine	er :	Jeff	Yao				Polarization :			Horizontal		
Remark :		Spu	urious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20c	IB below limit	t line.	
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
(MHz)	(dBr	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)		
3465.2	-35.	21	-13	-22.21	-64.39	-47.00	0.81	12.	60	Н	Pass	
5197.8	-39.	14	-13	-26.14	-68.66	-50.89	0.95	12.	70	Н	Pass	
6930.4	-40.	87	-13	-27.87	-71.27	-51.44	1.13	11.	70	Н	Pass	

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Band :		WC	DMA Ba	and IV for	r CH1413		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er:	Jef	f Yao				Polarization	:	Vertical		
Remark :		Spi	urious er	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465.2	-39.	85	-13	-26.85	-66.02	-51.64	0.81	12	.6	V	Pass
5197.8	-40.	21	-13	-27.21	-69.1	-51.96	0.95	12	.7	V	Pass
6930.4	-40.	00	-13	-27.00	-71.43	-50.57	1.13	11.	.7	V	Pass

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Band :		WC	DMA Ba	and IV fo	r CH1513		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	52%	
Test Engine	er :	Jef	f Yao				Polarization	:	Horiz	zontal	
Remark :		Spı	urious er	missions	within 30-1	1000MHz	were found m	nore tha	n 20c	dB below limi	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBi	m)	(dBm)	(dB)	(dBm)	(dBm	(dB)	(dE	Bi)	(H/V)	
3505.2	-37.	48	-13	-24.48	-65.77	-49.27	0.81	12.	60	Н	Pass
5257.8	-40.	34	-13	-27.34	-69.86	-52.09	0.95	12.	70	Н	Pass
7010.4	-40.	93	-13	-27.93	-71.33	-51.50	1.13	11.	70	Н	Pass

									ſ		
Band :		WC	DMA Ba	and IV fo	r CH1513		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er:	Jef	f Yao				Polarization	:	Vertical		
Remark :		Spi	urious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	IB below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBr	n)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3505.2	-36.	35	-13	-23.35	-64.09	-48.14	0.81	12	.6	V	Pass
5257.8	-43.	25	-13	-30.25	-70.38	-55.00	0.95	12	.7	V	Pass
7010.4	-39.	42	-13	-26.42	-71.06	-49.99	1.13	11.	.7	V	Pass

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Band :		WC	DMA Ba	and II for	CH9296		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity :	48~52%		
Test Engine	er :	Jef	f Yao				Polarization	Horizontal			
Remark :		Spı	urious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20c	IB below limit	t line.
Frequency (MHz)	EIR (dBr	-	Limit	Over Limit (dB)	SPA Reading	S.G. Power (dBm)	TX Cable loss	Ga	in	Polarization (H/V)	Result
3704.8	-35.4		(dBm) -13	-22.42	(dBm) -68.00	-47.15	, ,	(dE 12.		<u>(п/v)</u> Н	Pass
5557.2	-39.3	34	-13	-26.34	-69.81	-51.37	1.07	13.	10	Н	Pass
7409.6	-39.3	31	-13	-26.31	-71.19	-48.74	1.87	11.3	30	Н	Pass

					-					
Band :	١	VCDMA E	Band II for	CH9296		Temperature	::	23~25°C		
Test Mode :	F	RMC 12.2	Kbps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er:	leff Yao				Polarization	:	Vertic	al	
Remark :	Ş	Spurious e	emissions	within 30-1	1000MHz	were found m	nore tha	n 20d	B below lim	it line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3704.8	-33.8	3 -13	-20.83	-65.6	-45.56	0.87	12	.6	V	Pass
5557.2	-39.1	8 -13	-26.18	-70.63	-51.21	1.07	13	.1	V	Pass
7409.6	-38.8	9 -13	-25.89	-71.53	-48.32	1.87	11	3	V	Pass

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Band :		WC	DMA Ba	and II for	CH9400		Temperature	:	23~2	5°C	
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~5	2%	
Test Engine	er :	Jef	f Yao				Polarization	:	Horiz	ontal	
Remark :		Spı	urious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20c	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dB	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-37.	47	-13	-24.47	-68.72	-49.20	0.87	12.	60	Н	Pass
5640	-40.	80	-13	-27.08	-70.40	-52.11	1.07	13.	10	Н	Pass
7520	-38.	40	-13	-25.40	-70.72	-47.83	1.87	11.3	30	Н	Pass

Band :		WC	DMA Ba	and II for	CH9400		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun	nidity:	48~52%		
Test Engine	er :	Jef	f Yao				Polarization	:	Vertic	cal	
Remark :		Spi	urious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	tenna	Polarization	Result
				Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBı	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-37.	80	-13	-24.80	-68.55	-49.53	0.87	12	.6	V	Pass
5640	-38.	64	-13	-25.64	-70.41	-50.67	1.07	13	.1	V	Pass
7520	-37.	68	-13	-24.68	-71.1	-47.11	1.87	11.	.3	V	Pass

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Band :		WC	DMA Ba	and II for	CH9538		Temperature	:	23~25°C		
Test Mode :		RM	C 12.2K	lbps Link	(QPSK)		Relative Hun	nidity :	48~52%		
Test Engine	er :	Jeff	Yao				Polarization	Horizontal			
Remark :		Spu	urious er	missions	within 30-1	1000MHz	were found m	nore tha	n 20c	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX Ant	tenna	Polarization	Result
(MHz)	(dBr	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3815.2	-38.	42	-13	-25.42	-69.29	-50.15	0.87	12.	60	Н	Pass
5722.8	-39.	62	-13	-26.62	-70.03	-51.65	1.07	13.	10	Н	Pass
7630.4	-40.	12	-13	-27.12	-71.78	-49.55	1.87	11.3	30	Н	Pass

Band :		WC	DMA Ba	and II for	CH9538		Temperature	:	23~25°C		
Test Mode :		RM	IC 12.2K	bps Link	(QPSK)		Relative Hun		48~52%		
Test Engine	er:	Jef	f Yao				Polarization	:	Vertical		
Remark :		Spı	urious er	nissions	within 30-1	000MHz	were found m	nore tha	n 20d	B below limit	t line.
Frequency	EIR	Р	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
(MHz)	(dBr	m)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)		Ga (dE		(H/V)	
3815.2	-40.	00	-13	-27.00	-69.53	-51.73	0.87	12	.6	V	Pass
5722.8	-37.	74	-13	-24.74	-69.81	-49.77	1.07	13	.1	V	Pass
7630.4	-39.	25	-13	-26.25	-71.65	-48.68	1.87	11.	.3	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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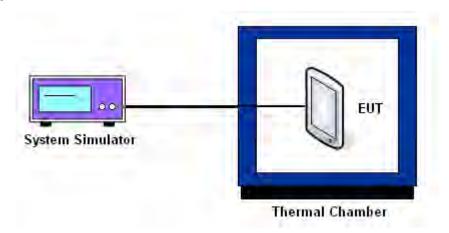
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3.8.5 Test Setup



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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

	GSM	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0060	0.0036	
40	0.0108	0.0048	
30	0.0036	0.0012	
20(Ref.)	0.0000	0.0000	
10	0.0108	0.0036	PASS
0	0.0203	0.0096	
-10	0.0574	0.0060	
-20	0.0634	0.0132	
-30	0.0729	0.0167	

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

T	GSM	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0053	0.0069	
40	0.0016	0.0059	
30	0.0011	0.0069	
20(Ref.)	0.0000	0.0000	
10	0.0048	0.0144	PASS
0	0.0090	0.0213	
-10	0.0154	0.0410	
-20	0.0340	0.0468	
-30	0.0415	0.0516	

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 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0072	
40	0.0060	
30	0.0036	
20(Ref.)	0.0000	
10	0.0024	PASS
0	0.0012	
-10	0.0024	
-20	0.0048	
-30	0.0012	

Band :	WCDMA Band IV	Channel : 1413	
Limit (ppm):	within authorized band	Frequency:	1732.6 MHz

	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0029	
40	0.0017	
30	0.0012	
20(Ref.)	0.0000	
10	0.0012	PASS
0	0.0017	
-10	0.0012	
-20	0.0023	
-30	0.0017	

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

- ,	RMC 12.2Kbps	
Temperature (°C)	Deviation (ppm)	Result
50	0.0027	
40	0.0011	
30	0.0005	
20(Ref.)	0.0000	
10	0.0011	PASS
0	0.0005	
-10	0.0005	
-20	0.0016	
-30	0.0011	

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)	Deviation (ppm)	Limit (ppm)	Result
		4.35	0.0036		
	GSM	3.80	0.0000		
GSM 850		BEP	0.0012	2.5	
CH189	ED0E	4.35	0.0012	2.5	
	EDGE class 8	3.80	0.0000		
	01433 0	BEP	0.0012		
		4.35	0.0016		
	GSM	3.80	0.0000	(Note 3.)	PASS
GSM 1900		BEP	0.0011		
CH661	EDGE class 8	4.35	0.0016		
		3.80	0.0000		
	01455 0	BEP	0.0016		
MODMA Dandy	D140	4.35	0.0024		
WCDMA Band V CH4182	RMC 12.2Kbps	3.80	0.0000	2.5	
0114102	12.21000	BEP	0.0012		
14/0B144 B 111/	5140	4.35	0.0006		
WCDMA Band IV CH1413	RMC 12.2Kbps	3.80	0.0000	(Note 3.)	
	12.21000	BEP	0.0012		
\\(\(\text{ODMAR}\)	5146	4.35	0.0011		
WCDMA Band II CH9400	RMC 12.2Kbps	3.80	0.0000	(Note 3.)	
0119400	12.21000	BEP	0.0005		

Note:

- 1. Normal Voltage = 3.80V.
- 2. Battery End Point (BEP) = 3.40 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	FSV40	101078	9kHz~40GHz	May 05, 2015	Jul. 08, 2015~ Jul. 09, 2015	May 04, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Jul. 08, 2015~ Jul. 09, 2015	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Jul. 11, 2015~ Jul. 15, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Sep. 25, 2014	Jul. 11, 2015~ Jul. 15, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Jul. 11, 2015~ Jul. 15, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Jul. 11, 2015~ Jul. 15, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Jul. 11, 2015~ Jul. 15, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Jul. 11, 2015~ Jul. 15, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Jul. 11, 2015~ Jul. 15, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Jul. 11, 2015~ Jul. 15, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Jul. 11, 2015~ Jul. 15, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 11, 2015~ Jul. 15, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 11, 2015~ Jul. 15, 2015	NCR	Radiation (03CH01-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	3.9dB
Confidence of 95% (U = 2Uc(y))	3.9ub

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