FCC RF Test Report

APPLICANT : CT Asia (HK) Ltd. EQUIPMENT : Mobile phone

BRAND NAME : BLU

MODEL NAME : DASH X PLUS

FCC ID : YHLBLUDASHXPLUS

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jul. 31, 2015 and testing was completed on Aug. 26, 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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Testing Laboratory

Report No. : FG573102

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG573102	Rev. 01	Initial issue of report	Aug. 31, 2015

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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) RSS-139 (3.1)	Occupied Bandwidth	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 23.40 dB at 1648.400 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	Mobile phone		
Brand Name	BLU		
Model Name	DASH X PLUS		
FCC ID	YHLBLUDASHXPLUS		
	GSM/GPRS/WCDMA/HSPA		
FUT augusta Dadica application	WLAN2.4GHz 802.11b/g/n HT20/HT40		
EUT supports Radios application	Bluetooth v2.1+EDR		
	Bluetooth v4.0 LE		
	Conducted: 351771053504958/351771053512951		
IMEI Code	Radiation: 351771053504966/351771053512969		
	ERP/EIRP: 351771053504966/351771053512969		
HW Version	S5503-MB-V1.5		
SW Version	DASH X PLUS_V01_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 Specif	Product Specification subjective to this standard						
	GSM850: 824.2 MHz ~ 848.8 MHz						
	GSM1900: 1850.2 MHz ~ 1909.8MHz						
	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 : 32.97 dBm						
	GSM1900 : 30.42 dBm						
Maximum Output Power to Antenna	WCDMA Band V : 21.35 dBm						
	WCDMA Band IV: 21.76 dBm						
	WCDMA Band II: 21.54 dBm						
Antenna Type	IFA Antenna						
	GSM: GMSK						
	GPRS: GMSK						
Type of Modulation	WCDMA: QPSK (Uplink)						
	HSDPA: QPSK (Uplink)						
	HSUPA: QPSK (Uplink)						

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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	0.6342	0.0681 ppm	246KGXW
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0454	0.0383 ppm	4M15F9W
Part 24	GSM1900 GSM	GMSK	1.0408	0.0239 ppm	245KGXW
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1357	0.0250 ppm	4M17F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1262	0.0237 ppm	4M17F9W

1.7 Testing Location

Test Site SPORTON INTERNATIONAL (SHENZHEN) INC.					
	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,				
	Nanshan District, Shenzhen, Guangdong, P. R. China				
Test Site Location	TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595				
Test 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 Site No	Sporton Site No. FCC/IC Registration					
Test Site No.	03CH01-SZ 831040/4086F					

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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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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Test Configuration of Equipment Under Test 2

Test Mode 2.1

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:

- 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
- 30 MHz to 10th harmonic for WCDMA Band IV 2.
- 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							
GSM 1900	■ GSM Link	■ GSM Link							
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link							
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link							
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,

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:

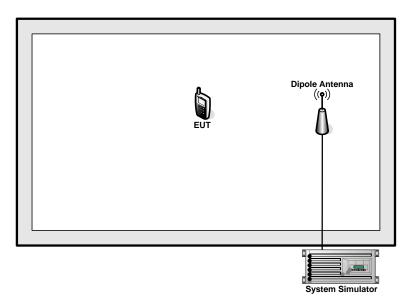
Conducted Power (*Unit: dBm)								
Band		GSM850		GSM1900				
Channel	128 189 251			512	661	810		
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8		
GSM	32.73	32.83	<mark>32.97</mark>	30.42	30.20	30.23		
GPRS class 8	32.71	32.82	32.94	30.40	30.18	30.22		
GPRS class 10	32.18	32.29	32.41	29.80	29.64	29.69		
GPRS class 11	30.68	30.78	30.91	27.86	27.80	27.85		
GPRS class 12	29.71	29.81	29.95	26.61	26.56	26.60		

	Conducted Power (*Unit: dBm)										
Band	WC	DMA Bar	nd 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	21.26	21.24	21.31	21.35	21.53	21.35	21.70	21.71	21.74		
RMC 12.2K	21.27	21.26	<mark>21.35</mark>	21.38	<mark>21.54</mark>	21.39	21.74	21.73	<mark>21.76</mark>		
HSDPA Subtest-1	20.05	20.05	20.28	19.98	20.09	19.96	20.21	20.36	20.42		
HSDPA Subtest-2	20.06	20.05	20.27	20.02	20.11	19.97	20.19	20.42	20.45		
HSDPA Subtest-3	19.59	19.58	19.81	19.54	19.63	19.52	19.75	19.94	19.97		
HSDPA Subtest-4	19.54	19.56	19.79	19.52	19.60	19.49	19.72	19.92	19.95		
HSUPA Subtest-1	18.05	18.07	18.33	18.05	18.14	18.09	18.25	18.44	18.47		
HSUPA Subtest-2	18.01	18.08	18.28	18.03	18.11	18.03	18.23	18.44	18.49		
HSUPA Subtest-3	19.02	19.08	19.28	19.02	19.08	19.08	19.22	19.40	19.48		
HSUPA Subtest-4	17.53	17.51	17.78	17.48	17.57	17.51	17.69	17.91	18.01		
HSUPA Subtest-5	20.00	20.00	20.30	20.00	20.10	20.00	20.20	20.40	20.50		

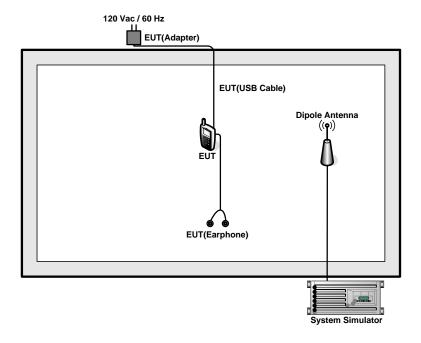
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2.2 Connection Diagram of Test System

For 22H



For 24E, 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.

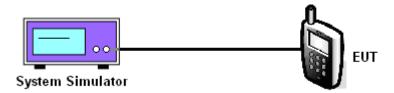
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

3.1.4 Test Setup



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3.1.5 Test Result of Conducted Output Power

Cellular Band							
Modes	GSM850 (GSM)			WCDMA Band V (RMC 12.2Kbps)			
Channel	128 189 (Low) (Mid)		251 (High)			4233 (High)	
Frequency (MHz)	824.2	836.4	848.8	826.4	836.4	846.6	
Conducted Power (dBm)	32.73	32.83	32.97	21.27	21.26	21.35	

PCS Band							
Modes	GSM1900 (GSM)			WCDMA Band II (RMC 12.2Kbps)			
Channel	512 661 810 (Low) (Mid) (High)			9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6	
Conducted Power (dBm)	30.42	30.20	30.23	21.38	21.54	21.39	

	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				
Conducted Power (dBm)	21.74	21.73	21.76				

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.

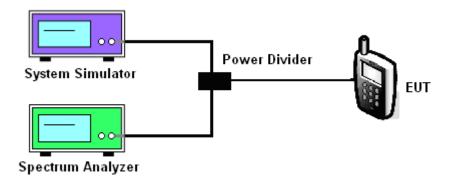
3.2.2 Measuring Instruments

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.
- 4. 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)			WCDMA Band V (RMC 12.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)	4132 4182 4 (Low) (Mid) (I			
Frequency (MHz)	824.2	836.4	848.8	826.4	836.4	846.6	
Peak-to-Average Ratio (dB)	0.30	0.29	0.29	3.36	3.04	3.25	

PCS Band							
Modes	GSM1900 (GSM)			WCDMA Band II (RMC 12.2Kbps)			
Channel	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6	
Peak-to-Average Ratio (dB)	0.28	0.28	0.28	2.93	2.90	2.49	

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)	3.13	3.10	3.07				

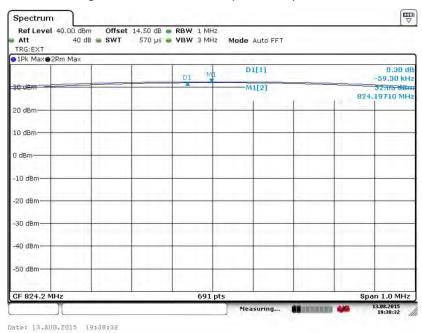
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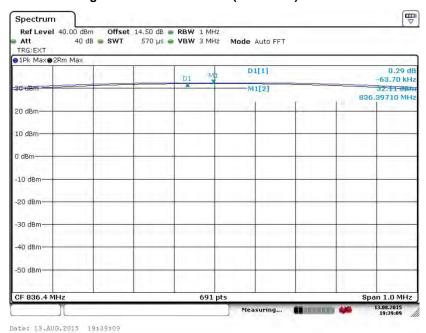
3.2.6 Test Result (Plots) of Peak-to-Average Ratio

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

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



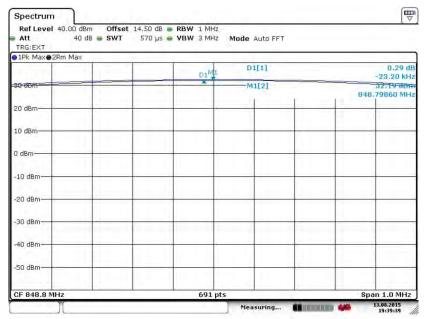
Peak-to-Average Ratio on Channel 189 (836.4 MHz)



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



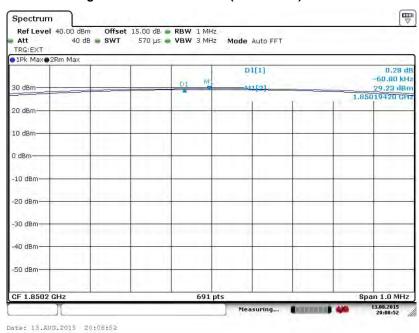
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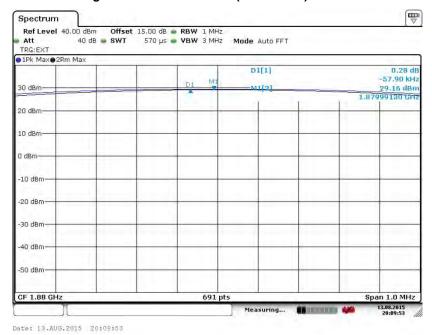
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Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



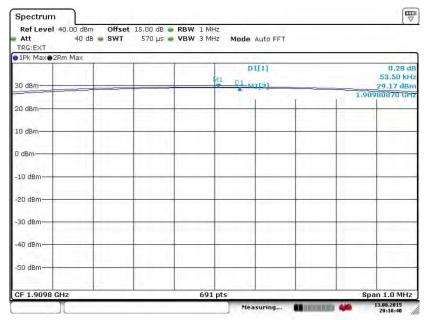
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



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

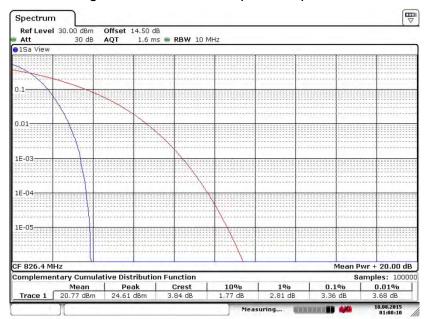


Date: 13.AUG.2015 20:10:40

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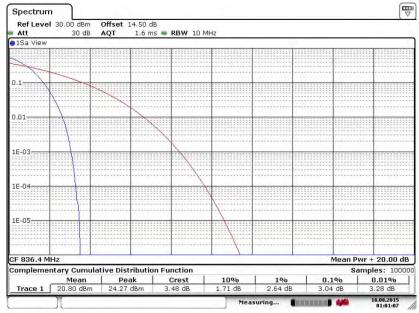
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 18.AUG.2015 01:00:10

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

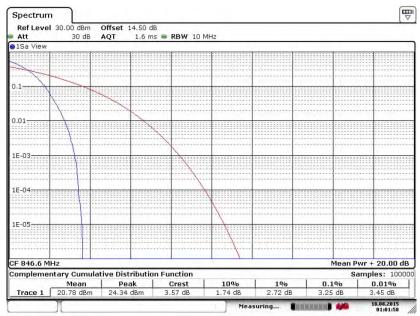


Date: 18.AUG.2015 01:01:07

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Peak-to-Average Ratio on Channel 4233 (846.6 MHz)

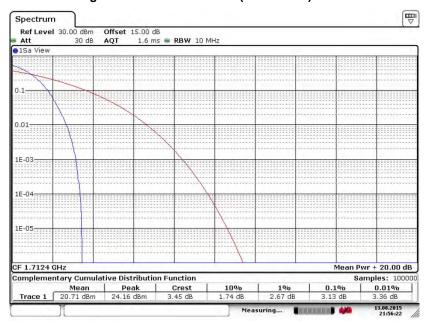


Date: 18.AUG.2015 01:01:58

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 22 of 100
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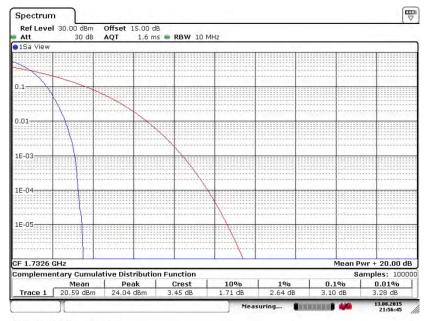
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 13.AUG.2015 21:56:22

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

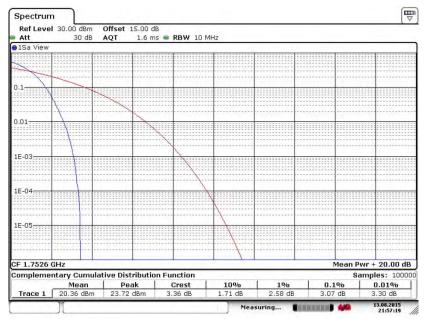


Date: 13.AUG.2015 21:56:45

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 23 of 100
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FCC RF Test Report

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

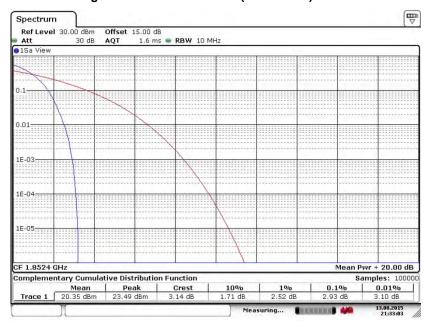


Date: 13.AUG.2015 21:57:19

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 24 of 100
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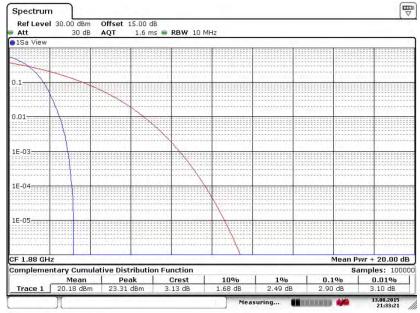
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 13.AUG.2015 21:33:03

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

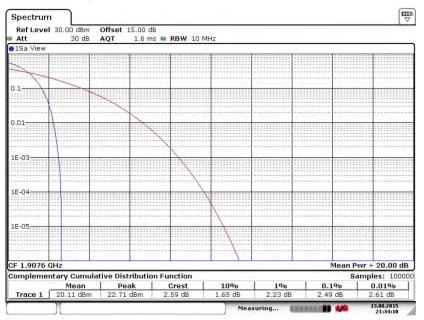


Date: 13.AUG.2015 21:33:22

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



Date: 13.AUG.2015 21:34:10

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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

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3.3.4 Test Result of ERP

GSM850 (GSM) Radiated Power ERP							
01	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	824.2	27.24	0.5299	18.39	0.0690		
Middle	836.4	27.80	0.6032	19.05	0.0804		
Highest	848.8	28.02	0.6342	19.54	0.0900		
Limit	ERP < 7W	Result		PA	SS		

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
Ch ann al	Frequency	Horizontal		Vertical			
Channel	(MHz)	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)		
Lowest	826.4	14.06	0.0254	5.44	0.0035		
Middle	836.4	15.89	0.0388	7.08	0.0051		
Highest	846.6	16.57	0.0454	8.09	0.0064		
Limit	ERP < 7W	Result		PA	SS		

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3.3.5 Test Result of EIRP

GSM1900 (GSM) Radiated Power EIRP							
Oh ann a l	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm) EIRP(W)		EIRP(dBm)	EIRP(W)		
Lowest	1850.2	28.23	0.6653	29.37	0.8657		
Middle	1880	28.70	0.7410	29.68	0.9292		
Highest	1909.8	29.53	0.8965	30.17	1.0408		
Limit	EIRP < 2W	Result		PA	SS		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
Oh ann al	Frequency	Horizontal		Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1852.4	20.47	0.1113	21.27	0.1339		
Middle	1880.0	20.50	0.1121	21.33	0.1357		
Highest	1907.6	20.61	0.1152	21.03	0.1267		
Limit	EIRP < 2W	Result		PA	SS		

WCDMA Band IV(RMC 12.2Kbps) Radiated Power EIRP							
01 1	Frequency	Horiz	ontal	Vertical			
Channel	(MHz)	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)		
Lowest	1712.4	20.73	0.1183	20.34	0.1083		
Middle	1732.6	21.01	0.1262	20.93	0.1240		
Highest	1752.6	20.73	0.1183	20.57	0.1141		
Limit	EIRP < 1W	Result		PA	SS		

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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.

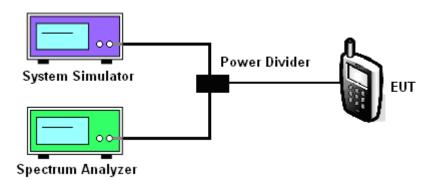
3.4.2 Measuring Instruments

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)		
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
99% OBW (kHz)	244.57	243.13	246.02
26dB BW (kHz)	318.40	318.40	314.00

PCS Band			
Modes	GSM1900 (GSM)		
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
99% OBW (kHz)	244.57	241.68	244.57
26dB BW (kHz)	315.50	314.00	315.50

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	4.67	4.69

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	4.15	4.17
26dB BW (MHz)	4.67	4.67	4.69

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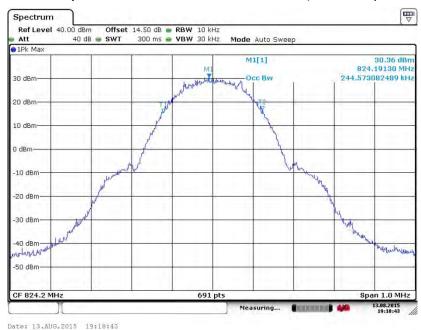
PCS Band			
Modes	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (MHz)	4.17	4.15	4.15
26dB BW (MHz)	4.69	4.69	4.67

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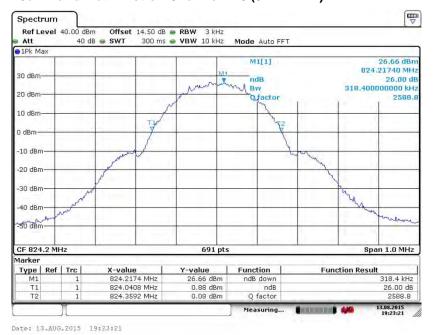
3.4.6 Test Result (Plots) of Occupied Bandwidth and 26dB Bandwidth

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)

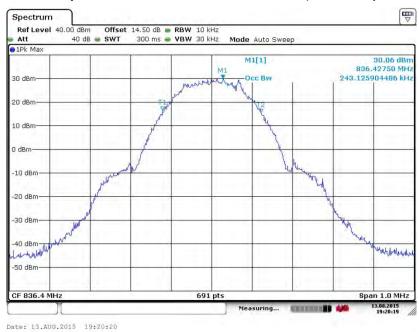


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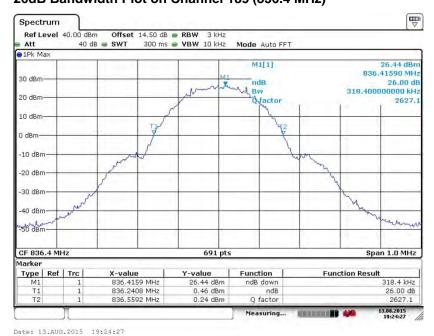
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



26dB Bandwidth Plot on Channel 189 (836.4 MHz)

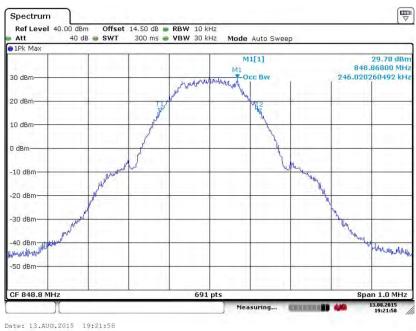


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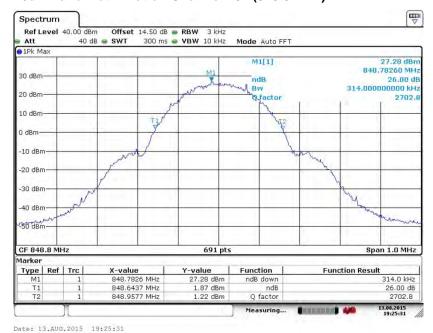
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



26dB Bandwidth Plot on Channel 251 (848.8 MHz)



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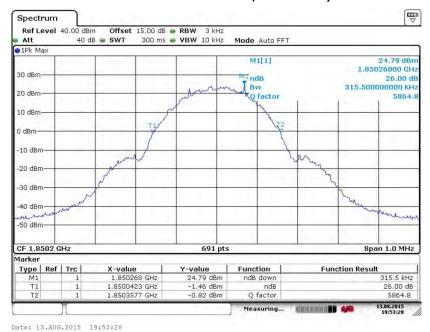
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 36 of 100
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Band: GSM 1900 Test Mode: GSM Link (GMSK)

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



26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



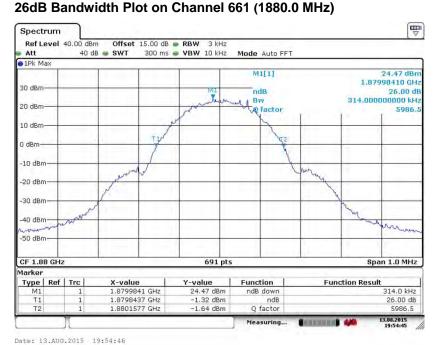
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)





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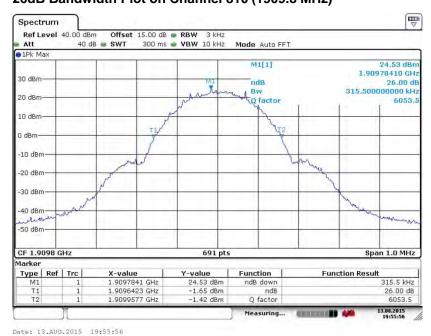
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 38 of 100 Report Issued Date: Aug. 31, 2015 Report Version : Rev. 01



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



26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

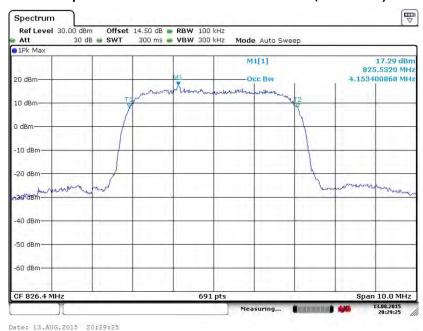


SPORTON INTERNATIONAL (SHENZHEN) INC.

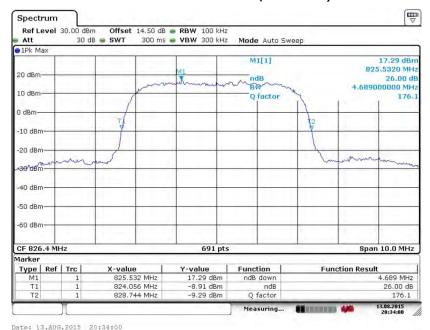
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 39 of 100
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

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



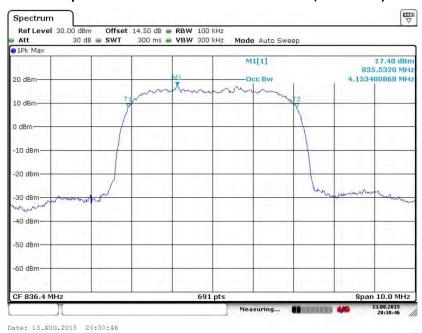
26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



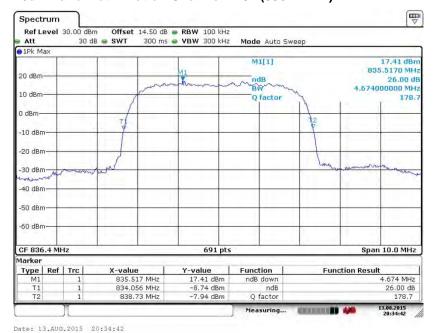
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99% Occupied Bandwidth Plot on Channel 4182 (836.4 MHz)



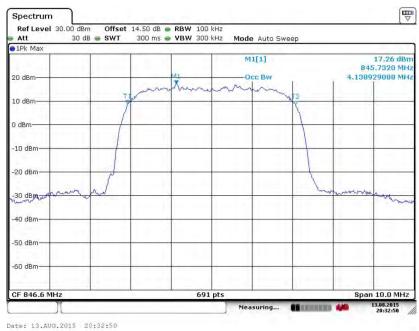
26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



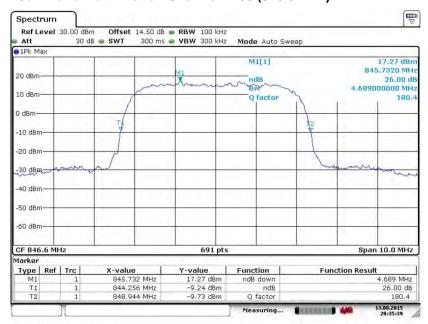
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99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



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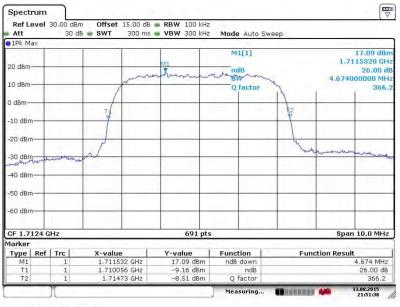
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 42 of 100 Report Issued Date: Aug. 31, 2015 Report Version : Rev. 01

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

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



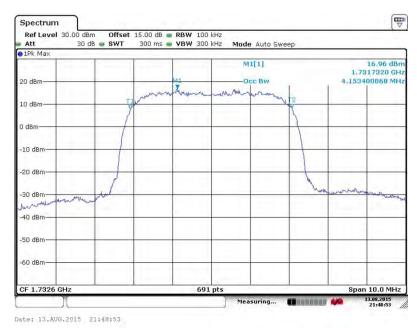
26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



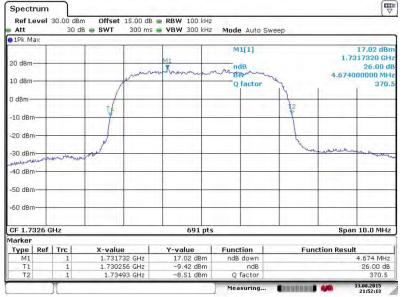
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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 43 of 100
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99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 13.AUG.2015 21:52:13

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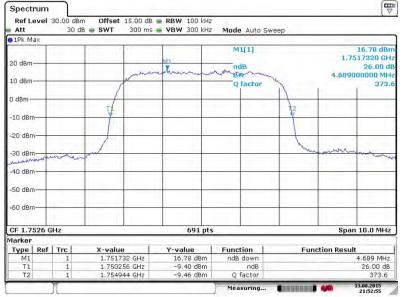
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99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)



26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



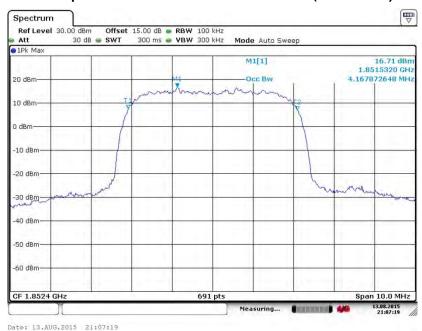
Date: 13.AUG.2015 21:52:55

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 45 of 100 Report Issued Date: Aug. 31, 2015

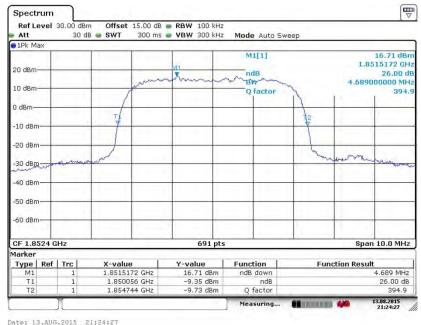
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99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



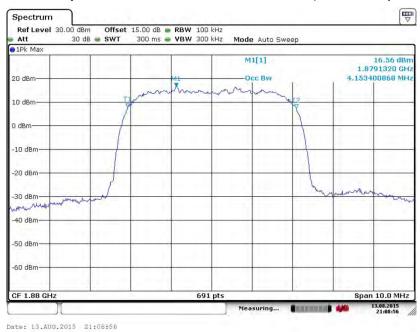
Date: 13.AUG.2015 21:29:27

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 46 of 100 Report Issued Date : Aug. 31, 2015

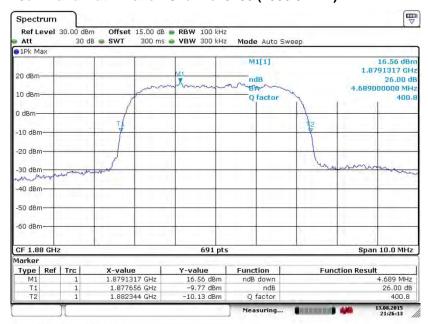
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99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)

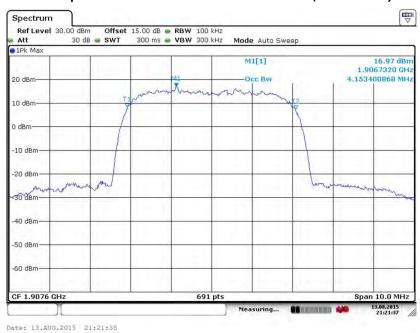


Date: 13.AUG.2015 21:26:13

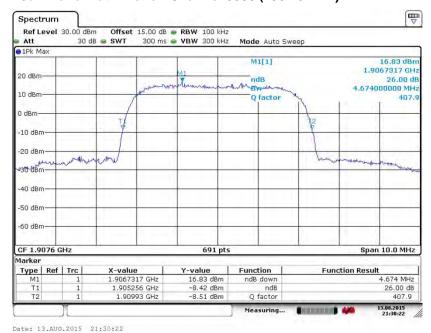
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 47 of 100 Report Issued Date: Aug. 31, 2015 Report Version : Rev. 01



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



26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



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3.5 Band Edge Measurement

3.5.1 Description of Band Edge Measurement

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

3.5.2 Measuring Instruments

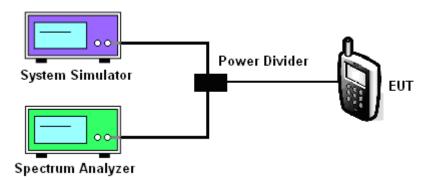
The measuring equipment is listed in the section 4 of this test report.

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

<Conducted Band Edge >



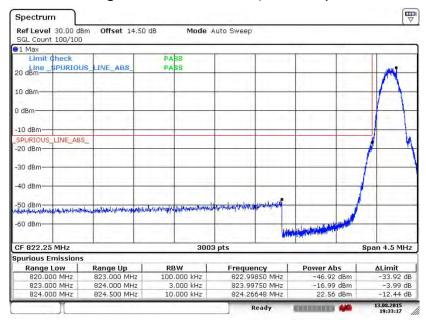
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band: GSM850	Test Mode :	GSM Link (GMSK)
--------------	-------------	-----------------

Lower Band Edge Plot on Channel 128 (824.2 MHz)

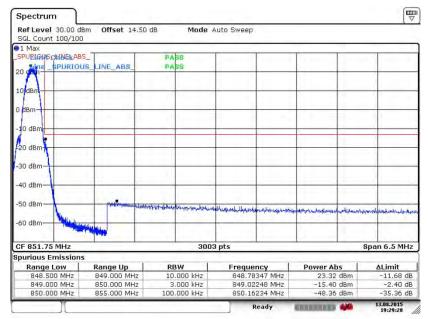


Date: 13.AUG.2015 19:33:17

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Band: GSM850 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)

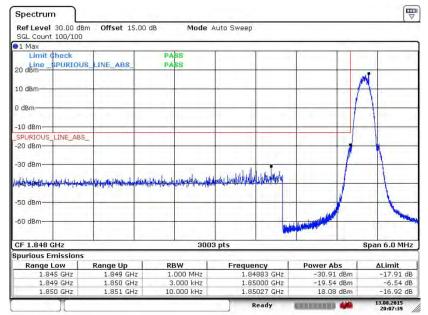


Date: 13.AUG.2015 19:29:28

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Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

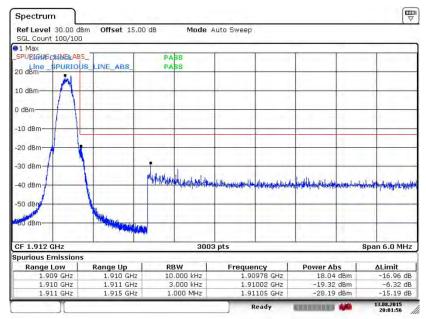


Date: 13.AUG.2015 20:07:39

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Band: GSM1900 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

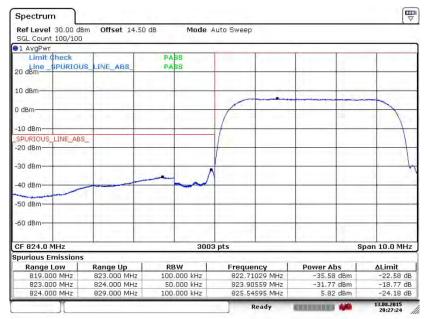


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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 53 of 100
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 4132 (826.4 MHz)

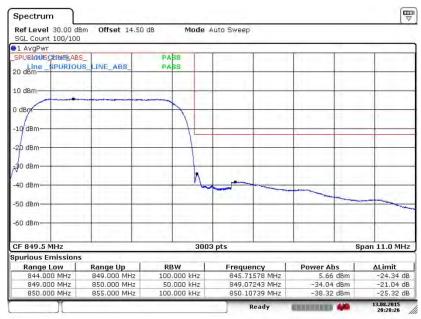


Date: 13.AUG.2015 20:27:25

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 54 of 100
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Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 4233 (846.6 MHz)

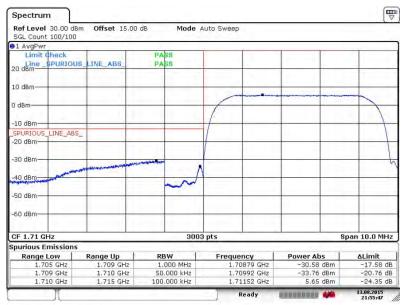


Date: 13.AUG.2015 20:28:26

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 55 of 100
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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: 13.AUG.2015 21:55:47

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

Higher Band Edge Plot on Channel 1513 (1752.6 MHz)

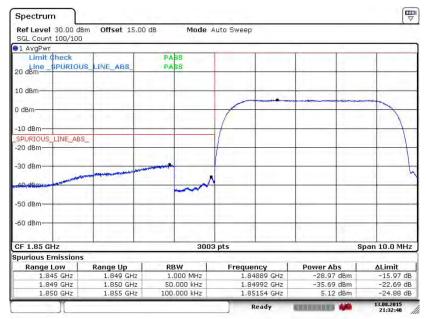


Date: 13.AUG.2015 21:53:43

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 57 of 100
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Lower Band Edge Plot on Channel 9262 (1852.4 MHz)

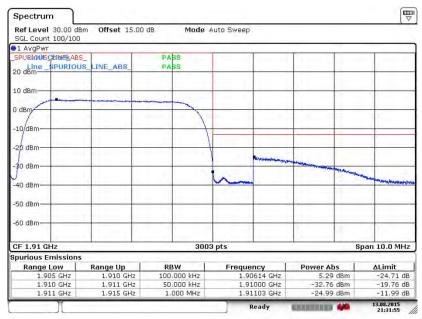


Date: 13.AUG.2015 21:32:40

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 58 of 100
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 13.AUG.2015 21:31:56

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3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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



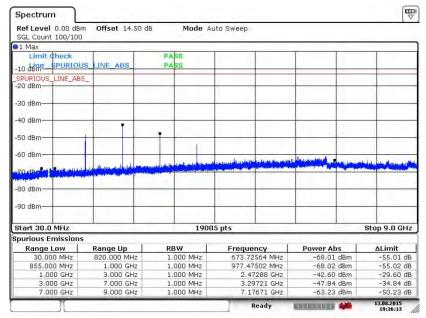
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3.6.5 Test Result (Plots) of Conducted Spurious Emission

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

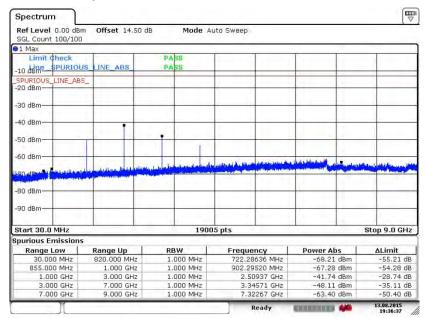
Conducted Spurious Emission Plot between 30MHz ~ 9GHz



Date: 13.AUG.2015 19:36:13

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 61 of 100
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Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

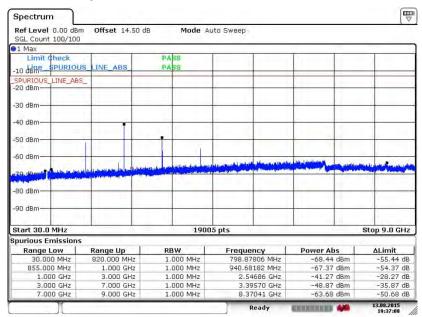


Date: 13.AUG.2015 19:36:37

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 62 of 100
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SPORTON LAB.	FCC RF Test Report

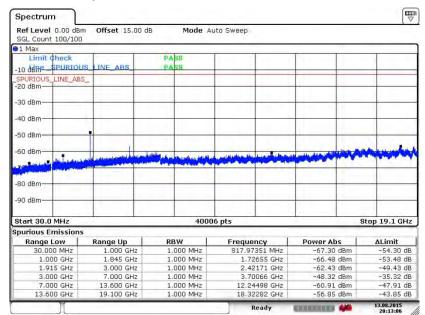
Band :	GSM850	Channel:	CH251
Test Mode :	GSM Link (GMSK)	Frequency:	848.8 MHz



Date: 13.AUG.2015 19:37:08

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 63 of 100 Report Issued Date: Aug. 31, 2015 : Rev. 01 Report Version

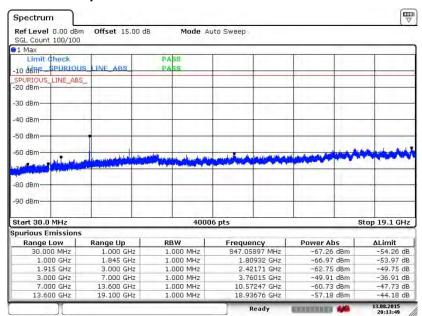
Band :	GSM1900	Channel:	CH512
Test Mode :	GSM Link (GMSK)	Frequency:	1850.2 MHz



Date: 13.AUG.2015 20:13:06

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 64 of 100
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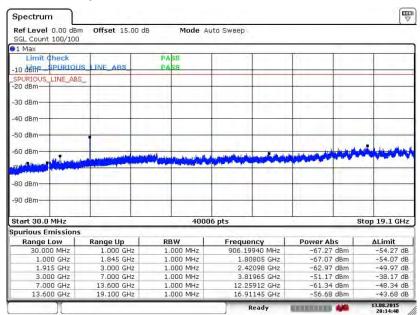
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz



Date: 13.AUG.2015 20:13:49

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 65 of 100
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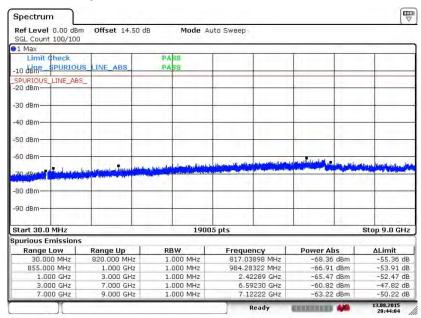
Band :	GSM1900	Channel:	CH810
Test Mode :	GSM Link (GMSK)	Frequency:	1909.8 MHz



Date: 13.AUG.2015 20:14:39

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 66 of 100
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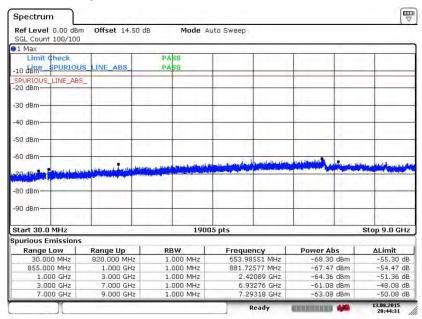
Band :	WCDMA Band V	Channel:	CH4132
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	826.4 MHz



Date: 13.AUG.2015 20:44:04

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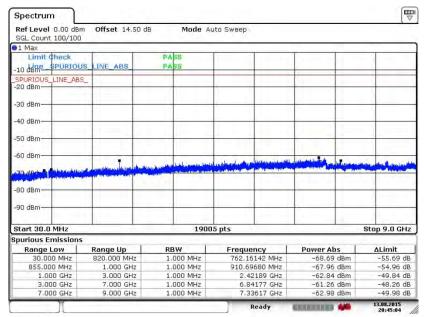
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz



Date: 13.AUG.2015 20:44:31

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 68 of 100
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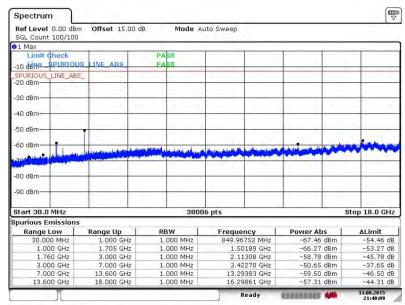
Band :	WCDMA Band V	Channel:	CH4233
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	846.6 MHz



Date: 13.AUG.2015 20:45:04

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 69 of 100
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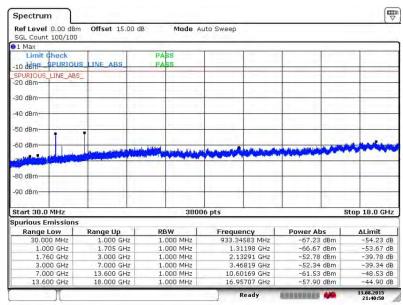
Band :	WCDMA Band IV	Channel:	CH1312
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1712.4 MHz



Date: 13.AUG.2015 21:40:09

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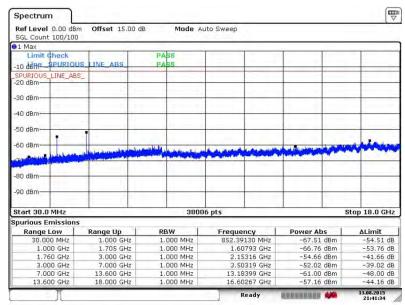
Band :	WCDMA Band IV	Channel:	CH1413
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1732.6 MHz



Date: 13.AUG.2015 21:40:50

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

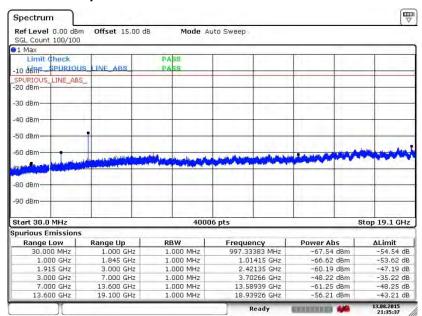


Date: 13.AUG.2015 21:41:34

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Band :	WCDMA Band II	Channel:	CH9262
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1852.40 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz

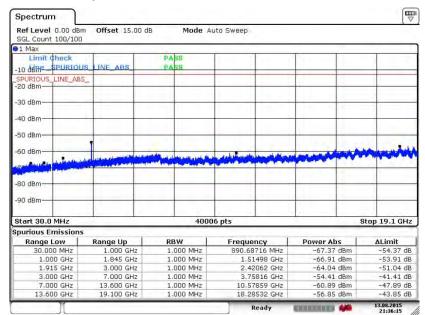


Date: 13.AUG.2015 21:35:37

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 73 of 100
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Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz

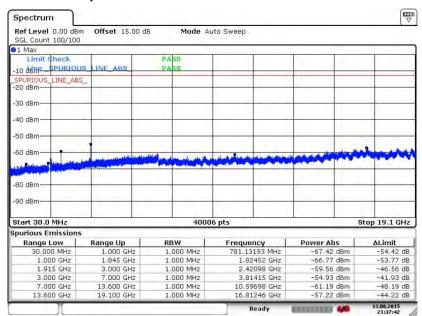


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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUDASHXPLUS Page Number : 74 of 100
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Band :	WCDMA Band II	Channel:	CH9538
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1907.6 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz



Date: 13.AUG.2015 21:37:42

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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.

Report No.: FG573102

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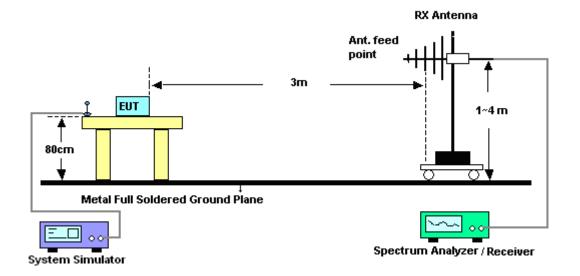
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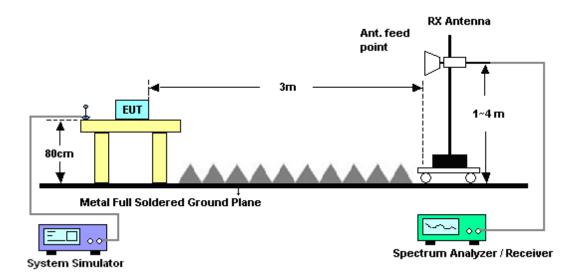
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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 :		GSM850 fo	r CH128			Temperature	23~25°C				
Test Mode :	:	GSM Link (GMSK)			Relative Hum	idity:	48~4	48~49%		
Test Engine	eer:	Jeff Yao				Polarization :		Horiz	ontal		
Remark :		Spurious er	ourious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	ERI	P 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)		
1648.4	-36.4	10 -13	-23.40	-53.26	-43.08	0.57	9.4	0	Н	Pass	
2472.6	-47.2	23 -13	-34.23	-69.70	-54.93	0.75	10.6	30	Н	Pass	
3296.8	-61.0)2 -13	-48.02	-71.62	-70.60	0.87	12.6	30	Н	Pass	

Band :	G	SM850 fo	r CH128			Temperature	:	23~25°C		
Test Mode	: G	SM Link (GMSK)			Relative Hum	nidity:	48~49%		
Test Engine	eer : Je	ff Yao				Polarization		Vertic	al	
Remark :	mark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1648.4	-37.95	-13	-24.95	-51.84	-44.63	0.57	9.4	0	V	Pass
2472.6	-45.88	-13	-32.88	-66.90	-53.58	0.75	10.6	60	V	Pass
3296.8	-59.53	-13	-46.53	-71.36	-69.11	0.87	12.6	60	V	Pass

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Band :	G	GSM850 for CH189				Temperature	:	23~25°C			
Test Mode	: G	GSM Link (GMSK)				Relative Hum	nidity:	48~49	48~49%		
Test Engine	eer : J	eff Yao				Polarization		Horiz	ontal		
Remark :	S	purious en	urious emissions within 30-1000MHz were found more than 20dB below limit line.							line.	
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)		
1672	-39.80	-13	-26.80	-56.47	-46.48	0.57	9.4	0	Н	Pass	
2510	-46.49	-13	-33.49	-69.19	-54.19	0.75	10.6	60	Н	Pass	
3346	-61.28	3 -13	-48.28	-71.88	-70.86	0.87	12.6	60	Н	Pass	

Band :	GS	SM850 fo	r CH189			Temperature	:	23~25°C		
Test Mode	: GS	SM Link (GMSK)			Relative Hum	nidity:	48~49%		
Test Engine	eer : Je	ff Yao				Polarization		Vertic	cal	
Remark :	: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1672	-42.06	-13	-29.06	-55.54	-48.74	0.57	9.4	0	V	Pass
2510	-43.68	-13	-30.68	-65.10	-51.38	0.75	10.6	30	V	Pass
3346	-59.22	-13	-46.22	-71.05	-68.80	0.87	12.6	30	V	Pass

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Band :	G	GSM850 for CH251				Temperature	23~25°C			
Test Mode	: G	SM Link (GMSK)			Relative Hum	48~49	48~49%		
Test Engine	eer : Je	Jeff Yao				Polarization :		Horizo	ontal	
Remark :	S	purious en	urious emissions within 30-1000MHz were found more than 20dB below limit lin							line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1697.6	-37.94	-13	-24.94	-54.73	-44.62	0.57	9.4	0	Н	Pass
2546.4	-44.87	-13	-31.87	-67.92	-52.57	0.75	10.6	60	Н	Pass
3395.2	-61.46	-13	-48.46	-72.06	-71.04	0.87	12.0	60	Н	Pass

Band :		GSM850 fo	r CH251			Temperature	:	23~25°C			
Test Mode :		GSM Link (GMSK)			Relative Hum	48~49%				
Test Engine	er:	Jeff Yao				Polarization	:	Vertic	Vertical		
Remark :		Spurious er	Spurious emissions within 30-1000MHz were found more than 20dB below lin							line.	
Frequency	ERI	P 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	Bi)	(H/V)		
1697.6	-41.5	54 -13	-28.54	-55.09	-48.22	0.57	9.4	-0	V	Pass	
2546.4	-43.3	35 -13	-30.35	-64.79	-51.05	0.75	10.0	60	V	Pass	
3395.2	-59.2	24 -13	-46.24	-71.07	-68.82	0.87	12.0	60	V	Pass	

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Band :	GS	SM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode	: GS	SM Link (GMSK)			Relative Hum	48~49%			
Test Engine	eer : Jet	ff Yao				Polarization :		Horiz	ontal	
Remark :	Sp	ourious emissions within 30-1000MHz were found more than 20dB below limit line							line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3700.4	-43.59	-13	-30.59	-72.23	-55.32	0.87	12.6	30	Н	Pass
5550.6	-43.62	-13	-30.62	-73.94	-55.65	1.07	13.	10	Н	Pass
7400.8	-43.62	-13	-30.62	-75.28	-53.05	1.87	11.3	30	Н	Pass

Band :	G	SM1900 f	or CH51	2		Temperature	:	23~25°C		
Test Mode :	G	SM Link (GMSK)			Relative Hun	nidity :	48~49%		
Test Engine	er : Je	eff Yao				Polarization	:	Vertical		
Remark :	s	purious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20dB belov	v limit line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna Polariz	ation Result	
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i) (H/	V)	
3700.4	-44.09	-13	-31.09	-72.54	-55.82	0.87	12.	6 V	Pass	
5550.6	-42.57	-13	-29.57	-73.7	-54.60	1.07	13.	1 V	Pass	
0000.0										

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Band :	GS	SM1900 f	or CH66	1		Temperature	23~25°C			
Test Mode	: GS	GSM Link (GMSK)				Relative Hum	idity :	48~49%		
Test Engine	eer : Je	ff Yao				Polarization :	:	Horiz	ontal	
Remark :	Sp	ourious emissions within 30-1000MHz were found more than 20dB below limit line							line.	
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3760	-43.69	-13	-30.69	-72.33	-55.42	0.87	12.0	30	Н	Pass
5640	-43.36	-13	-30.36	-73.68	-55.39	1.07	13.	10	Н	Pass
7520	-43.16	-13	-30.16	-74.82	-52.59	1.87	11.3	30	Н	Pass

Band :		GSM1900 f	or CH66	1		Temperature	:	23~2	5°C	
Test Mode :		GSM Link (GMSK)			Relative Hum	idity:	48~4	9%	
Test Engine	er:	Jeff Yao				Polarization :		Vertic	al	
Remark :		Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIR	P 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	-44.2	25 -13	-31.25	-72.7	-55.98	0.87	12.	6	V	Pass
5640	-42.0)5 -13	-29.05	-73.18	-54.08	1.07	13.	1	V	Pass
7520	-43.3	39 -13	-30.39	-75.28	-52.82	1.87	11.	3	V	Pass

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Band :	GS	SM1900 f	or CH81	0		Temperature	:	23~2	5°C	
Test Mode	: GS	SM Link (GMSK)			Relative Hum	nidity :	48~4	9%	
Test Engine	eer : Je	Jeff Yao Polarization : Horizontal						ontal		
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3819.6	-43.22	-13	-30.22	-71.86	-54.95	0.87	12.0	30	Н	Pass
5729.4	-41.63	-13	-28.63	-71.95	-53.66	1.07	13.	10	Н	Pass
7639.2	-43.95	-13	-30.95	-75.61	-53.38	1.87	11.3	30	Н	Pass

Band :	GS	SM1900 f	or CH81	0		Temperature	:	23~25	5°C	
Test Mode	: GS	SM Link (GMSK)			Relative Hum	1%			
Test Engine	eer : Je	ff Yao				Polarization :		Vertica	al	
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore than	1 20dE	3 below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3819.6	-44.31	-13	-31.31	-72.76	-56.04	0.87	12.	6	V	Pass
5729.4	-42.18	-13	-29.18	-73.31	-54.21	1.07	13.	1	V	Pass
7639.2	-43.74	-13	-30.74	-75.63	-53.17	1.87	11.3	,	V	Pass

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Band :	W	CDMA Ba	and V for	CH4132		Temperature	:	23~2	5°C	
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~4	9%	
Test Engine	eer : Je	ff Yao								
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1652.8	-56.00	-13	-43.00	-68.92	-62.68	0.57	9.4	0	Н	Pass
2479.2	-47.28	-13	-34.28	-69.73	-54.98	0.75	10.6	60	Н	Pass
3305.6	-61.13	-13	-48.13	-71.73	-70.71	0.87	12.6	60	Н	Pass

Band :	W	CDMA Ba	and V for	CH4132		Temperature	:	23~25°C		
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum		48~49	9%	
Test Engine	eer : Je	ff Yao				Polarization :		Vertic	al	
Remark :	Sp	urious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Dooding	D					
			LIIIII	Reading	Power	loss	Gai	n		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)		Gai (dB		(H/V)	
(MHz) 1652.8	(dBm)	(dBm)		•				i)	(H/V)	Pass
_ ` ,			(dB)	(dBm)	(dBm)	(dB)	(dB	i) O	, ,	Pass Pass

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Band :	W	CDMA Ba	ind V for	CH4182		Temperature	:	23~2	5°C	
Test Mode	: RN	//C 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~4	9%	
Test Engine	eer : Jet	Jeff Yao Polarization : Horizontal						ontal		
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1672	-55.33	-13	-42.33	-68.25	-62.01	0.57	9.4	0	Н	Pass
2510	-48.40	-13	-35.40	-70.23	-56.10	0.75	10.6	60	Н	Pass
3346	-60.40	-13	-47.40	-71.00	-69.98	0.87	12.6	60	Н	Pass

Band :	W	CDMA Ba	and V for	CH4182		Temperature	:	23~25°C					
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	9%					
Test Engine	eer : Je	ff Yao			Polarization :		Vertic	al					
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	f Yao Polarization : Vertical urious emissions within 30-1000MHz were found more than 20dB below limit						
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result			
Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Ant	•••••	Polarization	Result			
Frequency (MHz)	ERP					loss		n	Polarization (H/V)	Result			
			Limit	Reading	Power	loss	Ga	n i)		Result Pass			
(MHz)	(dBm)	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dE	n i) 0	(H/V)				

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Band :	W	CDMA Ba	and V for	CH4233		Temperature	:	23~2	5°C	
Test Mode	: RI	/IC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~4	9%	
Test Engine	eer : Je	Jeff Yao Polarization : Horizontal								
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
1693.2	-55.05	-13	-42.05	-67.97	-61.73	0.57	9.4	0	Н	Pass
2539.8	-47.57	-13	-34.57	-69.88	-55.27	0.75	10.0	60	Н	Pass
3386.4	-60.75	-13	-47.75	-71.35	-70.33	0.87	12.0	60	Н	Pass

Band :	10/10		nd V for	CH4233		Tomporoturo		23~2	5°C		
Dallu .	۷۷۷	DIVIA DO	iliu v ioi	CI 14233		Temperature	•	23~2	5 C		
Test Mode:	RM	1C 12.2K	bps Link	(QPSK)		Relative Humidity: 4			18~49%		
Test Engine	er: Jef	f Yao				Polarization :		Vertic	al		
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.	
Frequency	ERP	Limit	Over	SPA	S.G.	TV O-l-I-					
			O VCI	SFA	ა.ც.	TX Cable	TX Ant	enna	Polarization	Result	
			Limit	Reading	Power	loss	TX Ant		Polarization	Result	
(MHz)	(dBm)	(dBm)				loss		in	Polarization (H/V)	Result	
, ,	(dBm) -56.22		Limit	Reading	Power	loss	Ga	in Bi)		Pass	
1693.2	, ,	(dBm)	Limit (dB)	Reading (dBm)	Power (dBm)	loss (dB)	Ga (dB	in Bi)	(H/V)		

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Band :	W	CDMA Ba	and IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode	: RI	ИС 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~4	9%	
Test Engine	eer : Je	Jeff Yao Polarization : Horizontal								
Remark :	Sp	ourious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3424.8	-44.81	-13	-31.81	-70.79	-56.60	0.81	12.6	30	Н	Pass
5137.2	-39.84	-13	-26.84	-72.60	-51.59	0.95	12.	70	Н	Pass
6849.6	-40.99	-13	-27.99	-74.66	-51.56	1.13	11.7	70	Н	Pass

Band :	W	CDMA Ba	ind IV fo	r CH1312		Temperature	:	23~2	5°C	
Test Mode	: RI	/IC 12.2K	bps Link	(QPSK)		Relative Humidity: 48~49%				
Test Engine	eer : Je	eff Yao Polarization : Vertical							al	
Remark :	Sp	urious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3424.8	-49.43	-13	-36.43	-70.62	-61.22	0.81	12.	6	V	Pass
5137.2	-48.27	-13	-35.27	-71.89	-60.02	0.95	12.	7	V	Pass
6849.6	-42.91	-13	-29.91	-73.87	-53.48	1.13	11.	7	V	Pass

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Band :	W	CDMA Ba	and IV fo	r CH1413		Temperature	:	23~2	5°C	
Test Mode	: R	MC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~4	9%	
Test Engine	eer : Je									
Remark :	Sı	ourious en	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465.2	-44.11	-13	-31.11	-71.09	-55.90	0.81	12.0	60	Н	Pass
5197.8	-39.14	-13	-26.14	-72.96	-50.89	0.95	12.	70	Н	Pass
6930.4	-40.87	-13	-27.87	-74.62	-51.44	1.13	11.7	70	Н	Pass

Band :	W	CDMA Ba	and IV fo		Temperature	:	23~25°C					
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~4	18~49%			
Test Engine	eer : Je	Jeff Yao Polarization : Vertical						cal				
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.												
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result		
			Limit	Reading	Power	1						
			LIIIII	Reauiiig	Power	loss	Gai	n				
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)		Gai (dB		(H/V)			
(MHz) 3465.2	(dBm)	(dBm)		•				i)	(H/V)	Pass		
` ,			(dB)	(dBm)	(dBm)	(dB)	(dB	i)	, ,	Pass Pass		

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Band :	W	CDMA Ba	and IV fo	r CH1513		Temperature	:	: 23~25°C		
Test Mode	: RI	//C 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~4		
Test Engine	eer : Je	ff Yao			Polarization :		Horizontal			
Remark :	rk: Spurious emissions within 30-1000MHz were found more than 20dB below limit line							line.		
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3505.2	-44.30	-13	-31.30	-71.10	-56.09	0.81	12.0	60	Н	Pass
5257.8	-40.34	-13	-27.34	-72.72	-52.09	0.95	12.	70	Н	Pass
7010.4	-40.93	-13	-27.93	-75.19	-51.50	1.13	11.7	70	Н	Pass

Band :	W	WCDMA Band IV for CH1513 Temper					:	23~2	5°C			
Test Mode	: RI	/IC 12.2K	bps Link	(QPSK)		Relative Hum	nidity:	48~4	48~49%			
Test Engine	eer : Je	Jeff Yao Polarization : Vertical						al				
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.												
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result		
			Limit	Reading	Power	loss	Gai	n				
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)			
3505.2	-48.31	-13	-35.31	-71.07	-60.10	0.81	12.	6	V	Pass		
5257.8	-47.99	-13	-34.99	-73.29	-59.74	0.95	12.	7	V	Pass		
7010.4	-42.67	-13	-29.67	-75.31	-53.24	1.13	11.	7	V	Pass		

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Band :	W	CDMA Ba	ınd II for	CH9262		Temperature	:	23~25°C		
Test Mode	: RI	/IC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~49%		
Test Engine	eer : Je	ff Yao				Polarization :		Horizontal		
Remark :	nark: Spurious emissions within 30-1000MHz were found more than 20dB below limit lir							line.		
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3704.8	-42.92	-13	-29.92	-71.56	-54.65	0.87	12.0	60	Н	Pass
5557.2	-43.31	-13	-30.31	-73.63	-55.34	1.07	13.	10	Н	Pass
7409.6	-43.25	-13	-30.25	-74.91	-52.68	1.87	11.3	30	Н	Pass

Band :	W	WCDMA Band II for CH9262 Temperature :					:	23~25°C			
Test Mode	: RI	/IC 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~49%			
Test Engine	eer : Je	Jeff Yao Polarization : Vertical						al			
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.											
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Anto	enna	Polarization	Result	
			Limit	Reading	Power	loss	Gai	n			
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)		
3704.8	-44.11	-13	-31.11	-72.56	-55.84	0.87	12.0	6	V	Pass	
5557.2	-42.34	-13	-29.34	-73.47	-54.37	1.07	13.	1	V	Pass	

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Band :	W	CDMA Ba	ind II for	CH9400		Temperature : 23~25°C				
Test Mode	: RI	VC 12.2K	bps Link	(QPSK)		Relative Hum	idity :	48~49%		
Test Engine	eer : Je	Jeff Yao Polarization : Horizo						ontal		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.									
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3760	-44.09	-13	-31.09	-72.73	-55.82	0.87	12.0	60	Н	Pass
5640	-42.85	-13	-29.85	-73.17	-54.88	1.07	13.	10	Н	Pass
7520	-43.70	-13	-30.70	-75.36	-53.13	1.87	11.3	30	Н	Pass

Band :	W	CDMA Ba	ınd II for	CH9400		Temperature: 23~25°C				
Test Mode	: RN	/IC 12.2K	bps Link	(QPSK)		Relative Hum	idity :	48~49%		
Test Engine	eer : Je	leff Yao Polarization :						Vertic	al	
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								line.		
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			1 1		_					
			Limit	Reading	Power	loss	Gai	n		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	Power (dBm)		Gai (dB		(H/V)	
(MHz) 3760	(dBm)	(dBm)		•				i)	(H/V)	Pass
, ,			(dB)	(dBm)	(dBm)	(dB)	(dB	i) 6	, ,	Pass Pass

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Band :	W	CDMA Ba	ind II for	CH9538		Temperature : 23~25°C				
Test Mode	: RN	//C 12.2K	bps Link	(QPSK)		Relative Hum	idity:	48~49%		
Test Engine	eer : Jet	ff Yao				Polarization :		Horizontal		
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit						line.			
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3815.2	-43.65	-13	-30.65	-72.29	-55.38	0.87	12.6	30	Н	Pass
5722.8	-42.73	-13	-29.73	-73.05	-54.76	1.07	13.	10	Н	Pass
7630.4	-43.24	-13	-30.24	-74.90	-52.67	1.87	11.3	30	Н	Pass

Band :	W	WCDMA Band II for CH9538 Temperature					:	23~2	5°C	
Test Mode	: RI	MC 12.2K	bps Link	(QPSK)		Relative Hum	nidity :	48~49%		
Test Engine	eer : Je	Jeff Yao Polarization : Vertical						al		
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.										
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	/dD	i۱	/H/\/\	
			(~- /	(abiii)	(ubili)	(ub)	(dB	עיי	(H/V)	
3815.2	-44.67	, ,	-31.67	-73.12	-56.40	0.87	12.	•	<u>(⊓/V)</u> ∨	Pass
3815.2 5722.8	-44.67 -42.15	-13			, ,	, ,	•	6	, ,	Pass 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 3. 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.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value 3. measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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3.8.5 Test Setup



Thermal Chamber

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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	Result
Temperature (°C)	Deviation (ppm)	
50	0.0143	
40	0.0108	
30	0.0048	
20(Ref.)	0.0000	
10	0.0574	PASS
0	0.0610	
-10	0.0634	
-20	0.0658	
-30	0.0681	

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

T	GSM	Result	
Temperature (°C)	Deviation (ppm)		
50	0.0064		
40	0.0043		
30	0.0021		
20(Ref.)	0.0000		
10	0.0197	PASS	
0	0.0202		
-10	0.0213		
-20	0.0223		
-30	0.0239		

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

T	RMC 12.2Kbps	Result
Temperature (°C)	Deviation (ppm)	
50	0.0120	
40	0.0060	
30	0.0024	
20(Ref.)	0.0000	
10	0.0299	PASS
0	0.0323	
-10	0.0347	
-20	0.0359	
-30	0.0383	

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

_ ,	RMC 12.2Kbps	Result
Temperature (°C)	Deviation (ppm)	
50	0.0058	
40	0.0040	
30	0.0023	
20(Ref.)	0.0000	
10	0.0190	PASS
0	0.0202	
-10	0.0208	
-20	0.0219	
-30	0.0237	

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	Result
Temperature (°C)	Deviation (ppm)	
50	0.0059	
40	0.0037	
30	0.0016	
20(Ref.)	0.0000	
10	0.0207	PASS
0	0.0218	
-10	0.0223	
-20	0.0234	
-30	0.0250	

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
0014.050		3.7	0.0000		
GSM 850 CH189	GSM	BEP	0.0024	2.5	
011109		4.2	0.0000		
0014 4000		3.7	0.0000		
GSM 1900 CH661	GSM	BEP	0.0000	(Note 3.)	PASS
CHOOT		4.2	0.0005		
WCDMA Band V CH4182	RMC 12.2Kbps	3.7	0.0000		
		BEP	0.0000	2.5	
		4.2	0.0012		
14/051/4 5 11/		3.7	0.0000		
WCDMA Band IV CH1413	RMC 12.2Kbps	BEP	0.0012	(Note 3.)	
		4.2	0.0000		
MODIAA Daariii		3.7	0.0000		
WCDMA Band II CH9400		BEP	0.0011	(Note 3.)	
C1 19400	12.21000	4.2	0.0005		

Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.4 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	Aug. 13, 2015~ Aug. 18, 2015	May 04, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Aug. 13, 2015~ Aug. 18, 2015	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Aug. 12, 2015~ Aug. 26, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Sep. 25, 2014	Aug. 12, 2015~ Aug. 26, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Aug. 12, 2015~ Aug. 26, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Aug. 12, 2015~ Aug. 26, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Aug. 12, 2015~ Aug. 26, 2015	Sep. 03, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Aug. 12, 2015~ Aug. 26, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Aug. 12, 2015~ Aug. 26, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Aug. 12, 2015~ Aug. 26, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	Aug. 12, 2015~ Aug. 26, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 12, 2015~ Aug. 26, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 12, 2015~ Aug. 26, 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	3.9 dB
Confidence of 95% (U = 2Uc(y))	3.9 UB

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