FCC RF Test Report

APPLICANT : CT Asia

EQUIPMENT: Smart phone

BRAND NAME : BLU

MODEL NAME : LIFE 8 XL

FCC ID : YHLBLULIFE8XL

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 Jan. 28, 2015 and testing was completed on Feb. 13, 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

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Testing Laboratory

Report No.: FG512804

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG512804	Rev. 01	Initial issue of report	Mar. 12, 2015

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	Conducted Output Power		Reporting Only	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4) Equivalent Isotropic Radiated Power		< 1 Watts	PASS	-
3.4	§2.1049 §22.917(b) §24.238(b) §27.53(g)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	\$2.1051 \$22.917(a) \$24.238(a) \$27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.6	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.7	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 26.80 dB at 3760.000 MHz
3.8	\$2.1055 \$22.355 \$2.1055 \$24.235 \$27.54	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

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

1.2 Manufacturer

Beijing Benywave Wireless Communication Co., Ltd.

NO. 55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111

1.3 Product Feature of Equipment Under Test

Product Feature						
Equipment	Smart phone					
Brand Name	BLU					
Model Name	LIFE 8 XL					
FCC ID	YHLBLULIFE8XL					
	GSM/GPRS/WCDMA/HSPA/HSPA+(Downlink Only)					
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40					
	Bluetooth v3.0+EDR					
	Bluetooth v4.0 LE					
HW Version	TBW9785_P2_001					
SW Version	BLU_L290U_V01_GENERIC					
EUT Stage	Pre-Production					

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						
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz						
Rx Frequency	WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV: 2112.4 MHz ~ 2152.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz						
Maximum Output Power to Antenna	GSM850: 33.97 dBm GSM1900: 30.88 dBm WCDMA Band V: 24.17 dBm WCDMA Band IV: 22.38 dBm WCDMA Band II: 23.92 dBm						
Antenna Type	IFA Antenna						
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only)						

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1.5 Modification of EUT

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

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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.8355	0.0179 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.2299	0.0155 ppm	250KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0899	0.0072 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	1.2898	0.0261 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.4768	0.0117 ppm	253KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2726	0.0043 ppm	4M18F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.2940	0.0087 ppm	4M16F9W

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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 Town,				
	Nanshan District, Shenzhen, Guangdong, P. R. China					
Test Site Location	TEL: +86-755-8637-9589					
	FAX: +86-755-8637-9595					
Took Cita No	Sportor	n Site No.				
Test Site No.	TH01-SZ	OTA02-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						
Test Site No.	Sporton Site No.	FCC Registration No.					
rest site No.	03CH02-SZ 831040						

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

Remark:

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

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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.

Frequency range investigated for radiated emission: 30MHz to 10th harmonic.

All modes and data rates and positions were investigated.

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

	Test Modes								
Band	Radiated TCs	Conducted TCs							
0014.050	■ GSM Link	■ GSM Link							
GSM 850	■ 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:

SIM 1 Card:

Conducted Power (*Unit: dBm)									
Band		GSM850	SM850 GSM			M1900			
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GSM	33.97	33.82	33.79	30.76	30.65	<mark>30.88</mark>			
GPRS class 8	33.92	33.78	33.77	30.73	30.59	30.83			
GPRS class 10	33.23	33.02	33.00	29.85	29.74	30.01			
GPRS class 11	31.38	31.12	31.08	28.00	27.91	28.25			
GPRS class 12	29.98	29.71	29.66	26.92	26.86	27.24			
EGPRS class 8	27.92	27.79	27.76	26.41	26.40	26.49			
EGPRS class 10	26.89	26.73	26.67	25.26	25.24	25.36			
EGPRS class 11	24.56	24.54	24.40	23.11	23.10	23.35			
EGPRS class 12	23.22	23.20	23.15	21.95	21.93	21.98			

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	24.16	24.08	24.01	23.90	23.64	23.45	22.37	22.26	22.35		
RMC 12.2K	<mark>24.17</mark>	24.09	24.02	<mark>23.92</mark>	23.65	23.46	<mark>22.38</mark>	22.27	22.36		
HSDPA Subtest-1	22.84	22.85	22.79	22.54	22.29	22.09	20.41	20.33	20.39		
HSDPA Subtest-2	22.87	22.85	22.79	22.53	22.29	22.07	20.38	20.35	20.36		
HSDPA Subtest-3	22.38	22.40	22.36	22.07	21.83	21.63	20.40	20.37	20.38		
HSDPA Subtest-4	22.34	22.35	22.33	22.06	21.78	21.59	20.39	20.35	20.37		
HSUPA Subtest-1	20.89	20.89	20.89	20.63	20.42	20.26	19.45	19.42	19.44		
HSUPA Subtest-2	20.87	20.90	20.82	20.60	20.39	20.23	19.44	19.41	19.42		
HSUPA Subtest-3	21.89	21.89	21.88	21.61	21.37	21.19	20.36	20.34	20.35		
HSUPA Subtest-4	20.36	20.36	20.29	20.07	19.84	19.71	18.99	18.95	18.96		
HSUPA Subtest-5	22.80	22.90	22.80	22.60	22.40	22.20	21.06	21.00	21.03		

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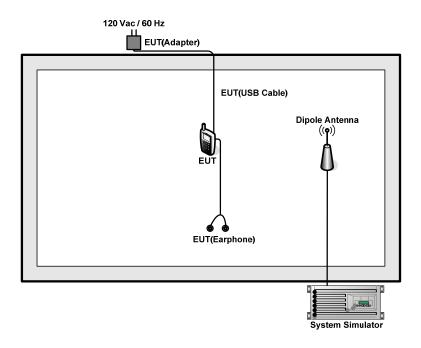
SIM 2 Card:

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	33.93	33.81	33.78	30.75	30.64	<mark>30.87</mark>			
GPRS class 8	33.89	33.75	33.72	30.71	30.57	30.80			
GPRS class 10	33.20	32.98	32.94	29.84	29.72	29.98			
GPRS class 11	31.36	31.09	31.04	27.98	27.90	28.23			
GPRS class 12	29.95	29.67	29.61	26.89	26.84	27.22			
EGPRS class 8	27.90	27.78	27.75	26.38	26.36	26.48			
EGPRS class 10	26.83	26.70	26.66	25.25	25.22	25.35			
EGPRS class 11	24.52	24.51	24.38	23.09	23.07	23.32			
EGPRS class 12	23.20	23.15	23.11	21.94	21.90	21.96			

		Condu	icted Po	wer (*Un	it: dBm)				
Band	WCI	DMA Bar	nd V	WC	DMA Baı	nd 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	24.09	24.07	23.98	23.88	23.62	23.44	22.35	22.24	22.34
RMC 12.2K	<mark>24.10</mark>	24.08	24.00	<mark>23.90</mark>	23.63	23.45	<mark>22.36</mark>	22.26	22.35
HSDPA Subtest-1	22.81	22.84	22.78	22.52	22.27	22.07	20.40	20.32	20.38
HSDPA Subtest-2	22.82	22.82	22.76	22.50	22.25	22.05	20.37	20.34	20.36
HSDPA Subtest-3	22.34	22.36	22.32	22.02	21.81	21.57	20.39	20.36	20.37
HSDPA Subtest-4	22.32	22.32	22.29	22.00	21.75	21.56	20.38	20.34	20.35
HSUPA Subtest-1	20.88	20.86	20.84	20.58	20.40	20.25	19.44	19.41	19.43
HSUPA Subtest-2	20.85	20.88	20.80	20.53	20.37	20.20	19.42	19.40	19.40
HSUPA Subtest-3	21.86	21.88	21.83	21.55	21.34	21.17	20.35	20.32	20.33
HSUPA Subtest-4	20.34	20.34	20.28	20.01	19.83	19.68	18.97	18.94	18.96
HSUPA Subtest-5	22.79	22.87	22.78	22.58	22.35	22.13	21.05	21.00	21.01

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2.2 Connection Diagram of Test System



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

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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.

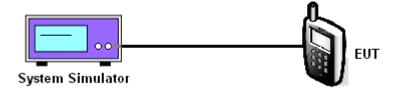
3.1.2 Measuring Instruments

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)			GSM8	GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)		
Channel	128 189 251 (Low) (Mid) (High)			128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6	
Conducted Power (dBm)	33.97	33.82	33.79	27.92	27.79	27.76	24.17	24.09	24.02	

	PCS Band									
Modes	GSM1900 (GSM)			GSM19	000 (EDGE o	lass 8)	WCDMA Band II (RMC 12.2Kbp			
Channel	512 (Low)	661 (Mid)	810 (High)	512 661 810 (Low) (Mid) (High)			9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6	
Conducted Power (dBm)	30.76	30.65	30.88	26.41	26.40	26.49	23.92	23.65	23.46	

	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)	22.38	22.27	22.36						

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

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3.2 Peak-to-Average Ratio

3.2.1 Description of the PAR Measurement

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

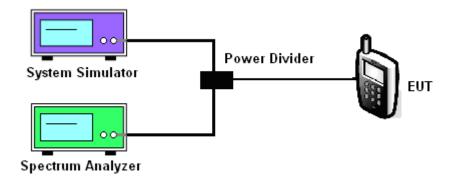
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. For GSM/EGPRS operating modes:
 - a. Set EUT in maximum power output.
 - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.
 - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on spectrum analyzer for second trace.
 - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator has synchronized with the spectrum analyzer.
- For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

PCS Band										
Modes	GSM1900 (GSM)			GSM19	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)	0.27	0.27	0.27	2.49	2.51	2.38	2.60	2.28	2.28	

	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)	3.08	2.88	3.04						

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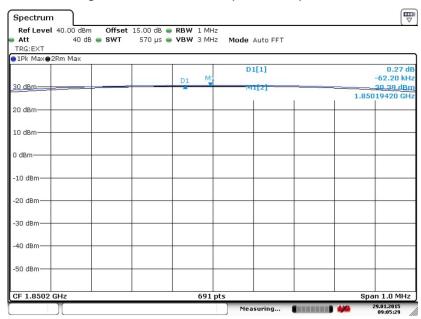
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3.2.6 Test Result (Plots) of Peak-to-Average Ratio

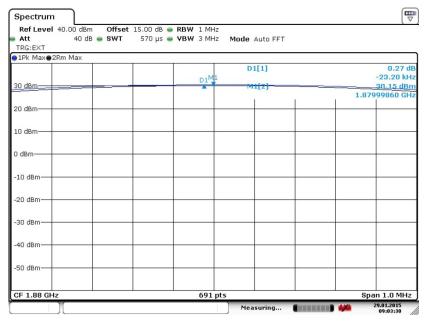
Band: GSM 1900 Test Mode: GSM Link (GMSK)	
---	--

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



Date: 29.JAN.2015 09:05:30

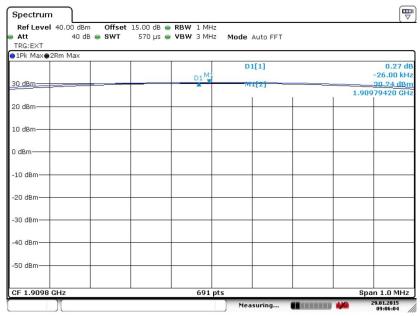
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 29.JAN.2015 09:03:30

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 18 of 95
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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

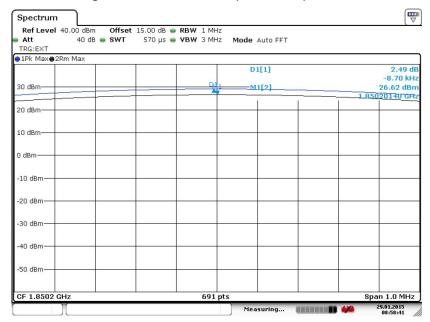


Date: 29.JAN.2015 09:06:05

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 19 of 95
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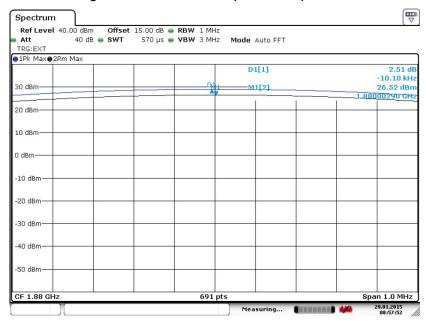
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 29.JAN.2015 08:58:42

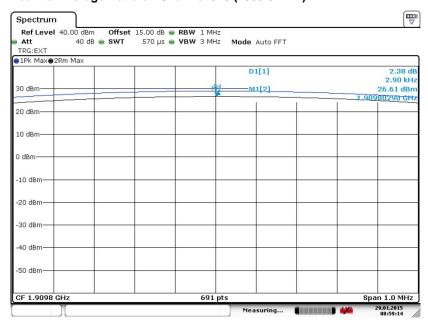
Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



Date: 29.JAN.2015 08:57:53

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 20 of 95
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Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

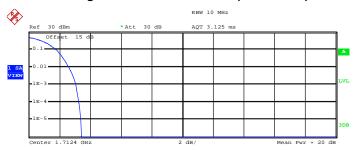


Date: 29.JAN.2015 08:59:14

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 21 of 95
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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)



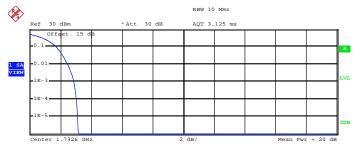
Complementary Cumulative Distribution Function (100000 samples) ${\tt Trace} \ \ 1$

Mean 23.65 dBm
Peak 27.08 dBm
Crest 3.43 dB

10 % 1.80 dB
1 % 2.60 dB
.1 % 3.08 dB
.01 % 3.28 dB

Date: 29.JAN.2015 14:11:49

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



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

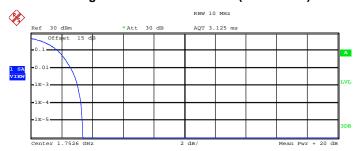
Mean 23.42 dBm
Peak 26.58 dBm
Crest 3.16 dB

10 % 1.72 dB
1 % 2.44 dB
.1 % 2.88 dB
.01 % 3.04 dB

Date: 29.JAN.2015 14:12:07

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 22 of 95
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Peak-to-Average Ratio on Channel 1513 (1752.6 MHz)



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

Mean 23.70 dBm
Peak 27.08 dBm
Crest 3.38 dB

10 % 1.76 dB
1 % 2.60 dB
.1 % 3.04 dB

3.28 dB

Date: 29.JAN.2015 14:12:26

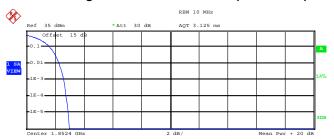
.01 %

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Report No.: FG512804

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

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



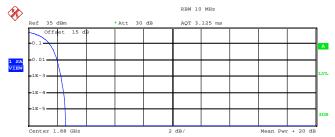
Complementary Cumulative Distribution Function (100000 samples

Trace 1
Mean 23.46 dBm
Peak 26.43 dBm
Crest 2.98 dB

10 % 1.64 dB
1 % 2.28 dB
.1 % 2.60 dB
.01 % 2.76 dB

Date: 29.JAN.2015 13:53:41

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



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

Mean 23.15 dBm
Peak 25.73 dBm
Crest 2.57 dB

10 % 1.48 dB
1 % 2.00 dB
.1 % 2.28 dB
.01 % 2.48 dB

Date: 29.JAN.2015 13:54:01

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 24 of 95
Report Issued Date : Mar. 12, 2015

Report No. : FG512804

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



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

Trace I
Trace I
22.96 dBm
Peak 25.51 dBm
Crest 2.56 dB

10 % 1.48 dB
1 % 2.00 dB
.1 % 2.28 dB
.01 % 2.40 dB

Date: 29.JAN.2015 13:54:18

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 25 of 95
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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 turntable 1.5 meters high in a fully anechoic chamber.
- 3. The EUT was placed 3 meters from the receiving antenna, which was mounted on the antenna tower
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
 UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 5. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 6. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 7. Taking the record of maximum ERP/EIRP.
- 8. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. The conducted power at the terminal of the dipole antenna is measured.
- 10. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 11. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AFEs = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

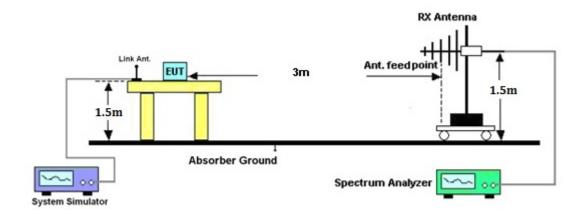
Rs: The highest received signal in spectrum analyzer for substitution antenna.

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3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-17.82	-48.12	0.00	-1.08	29.22	0.8355			
836.40	-18.39	-48.28	0.00	-0.93	28.96	0.7869			
848.80	-18.80	-48.35	0.00	-0.76	28.79	0.7566			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-26.86	-47.97	0.00	-1.08	20.03	0.1008			
836.40	-27.02	-48.01	0.00	-0.93	20.06	0.1014			
848.80	-27.12	-48.05	0.00	-0.76	20.17	0.1039			

	GSM850 (EDGE class 8) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
824.20	-24.07	-48.12	0.00	-1.08	22.97	0.1981			
836.40	-23.73	-48.28	0.00	-0.93	23.62	0.2299			
848.80	-24.15	-48.35	0.00	-0.76	23.44	0.2206			
		Ve	ertical Polarizati	on					
Frequency	Rt	Rs	Ps	Gs	ERP	ERP			
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)			
824.20	-33.02	-47.97	0.00	-1.08	13.87	0.0244			
836.40	-32.35	-48.01	0.00	-0.93	14.73	0.0297			
848.80	-32.36	-48.05	0.00	-0.76	14.93	0.0311			

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	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
826.40	-27.50	-48.12	0.00	-1.08	19.54	0.0899			
836.40	-28.05	-48.28	0.00	-0.93	19.30	0.0851			
846.60	-28.37	-48.35	0.00	-0.76	19.22	0.0836			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)			
826.40	-36.75	-47.97	0.00	-1.08	10.14	0.0103			
836.40	-36.78	-48.01	0.00	-0.93	10.30	0.0107			
846.60	-36.80	-48.05	0.00	-0.76	10.49	0.0112			

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP								
		Hoi	rizontal Polariza	tion					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)			
1850.20	-22.87	-51.88	0.00	1.96	30.97	1.2495			
1880.00	-24.27	-52.99	0.00	2.00	30.72	1.1796			
1909.80	-25.15	-54.28	0.00	1.98	31.11	1.2898			
		Ve	ertical Polarizati	on					
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)			
1850.20	-23.15	-52.13	0.00	1.96	30.94	1.2429			
1880.00	-24.60	-53.17	0.00	2.00	30.57	1.1403			
1909.80	-25.33	-54.13	0.00	1.98	30.78	1.1981			

GSM1900 (EDGE class 8) Radiated Power EIRP								
	Horizontal Polarization							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1850.20	-27.06	-51.88	0.00	1.96	26.78	0.4768		
1880.00	-28.45	-52.99	0.00	2.00	26.54	0.4503		
1909.80	-29.66	-54.28	0.00	1.98	26.60	0.4575		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1850.20	-27.41	-52.13	0.00	1.96	26.68	0.4653		
1880.00	-28.88	-53.17	0.00	2.00	26.29	0.4252		
1909.80	-29.92	-54.13	0.00	1.98	26.19	0.4158		

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	WCDMA Band IV (RMC 12.2Kbps) Radiated Power EIRP							
		Hoi	rizontal Polariza	tion				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1712.40	-30.23	-51.88	0.00	1.96	23.61	0.2298		
1732.60	-30.31	-52.99	0.00	2.00	24.68	0.2940		
1752.60	-32.07	-54.28	0.00	1.98	24.19	0.2626		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1712.40	-30.16	-52.13	0.00	1.96	23.93	0.2469		
1732.60	-30.71	-53.17	0.00	2.00	24.46	0.2791		
1752.60	-31.99	-54.13	0.00	1.98	24.12	0.2583		

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP								
	Horizontal Polarization							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)		
1852.40	-29.49	-51.88	0.00	1.96	24.35	0.2726		
1880.00	-31.72	-52.99	0.00	2.00	23.27	0.2124		
1907.60	-32.96	-54.28	0.00	1.98	23.30	0.2140		
		Ve	ertical Polarizati	on				
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP		
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
1852.40	-29.84	-52.13	0.00	1.96	24.25	0.2663		
1880.00	-32.02	-53.17	0.00	2.00	23.15	0.2066		
1907.60	-32.84	-54.13	0.00	1.98	23.27	0.2121		

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3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



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3.4.5 Test Result of Occupied Bandwidth and 26dB Bandwidth

Cellular Band							
Modes	G	GSM850 (GSM)			GSM850 (EDGE class 8)		
Channel	128	189	251	128	189	251	
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	
99% OBW (kHz)	247.00	246.00	242.00	250.00	247.00	250.00	
26dB BW (kHz)	305.00	306.00	303.00	313.00	304.00	308.00	

PCS Band							
Modes	GS	SM1900 (GS	M)	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)	248.00	244.00	248.00	253.00	251.00	250.00	
26dB BW (kHz)	309.00	310.00	308.00	306.00	304.00	311.00	

Cellular Band							
Modes	WCD	WCDMA Band V (RMC 12.2Kbps)					
Channel	4132 (Low)	4132 (Low) 4182 (Mid) 4233 (High)					
Frequency (MHz)	826.4	836.4	846.6				
99% OBW (MHz)	4.15	4.16	4.15				
26dB BW (MHz)	4.69	4.69	4.70				

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						
99% OBW (MHz)	4.16	4.16	4.16				
26dB BW (MHz)	4.68	4.69	4.67				

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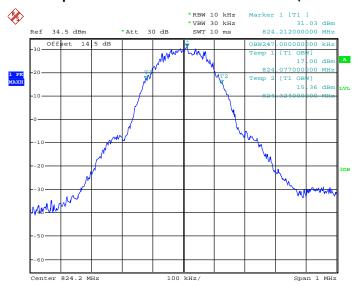
PCS Band							
Modes	WCD	WCDMA Band II (RMC 12.2Kbps)					
Channel	9262 (Low)	9262 (Low) 9400 (Mid) 9538 (High)					
Frequency (MHz)	1852.4 1880 1907.6						
99% OBW (MHz)	4.16	4.17	4.18				
26dB BW (MHz)	4.70	4.72	4.72				

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

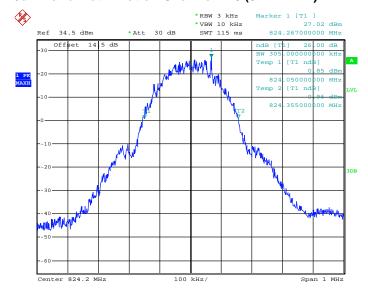
Band: GSM 850 Test Mode: GSM Link (GMSK)

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



Date: 29.JAN.2015 09:52:12

26dB Bandwidth Plot on Channel 128 (824.2 MHz)

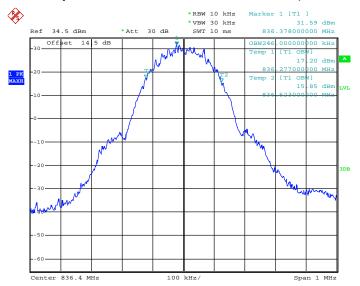


Date: 29.JAN.2015 09:50:14

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 35 of 95
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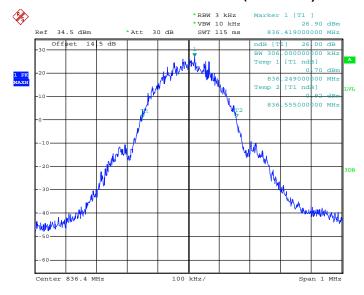
Report No.: FG512804

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



Date: 29.JAN.2015 09:52:47

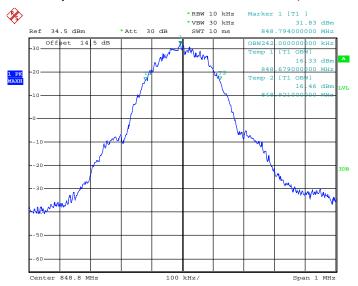
26dB Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 29.JAN.2015 09:50:46

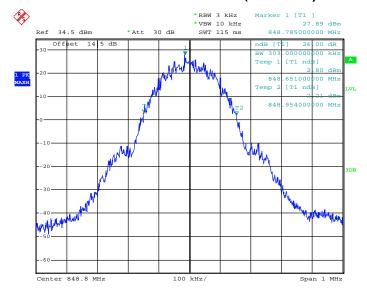
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 36 of 95
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99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 29.JAN.2015 09:53:20

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



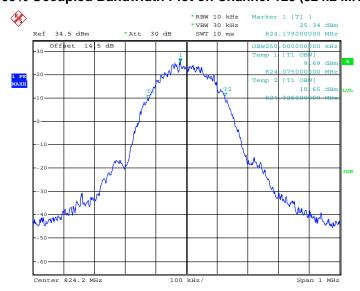
Date: 29.JAN.2015 09:51:26

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 37 of 95 Report Issued Date : Mar. 12, 2015

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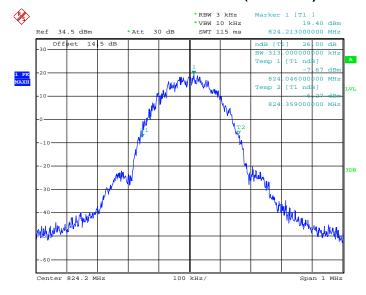
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 29.JAN.2015 10:40:22

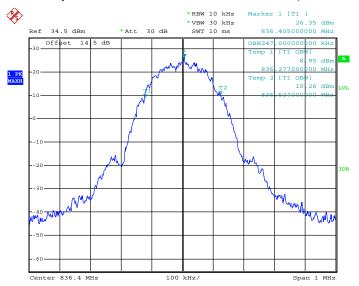
26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 29.JAN.2015 10:37:13

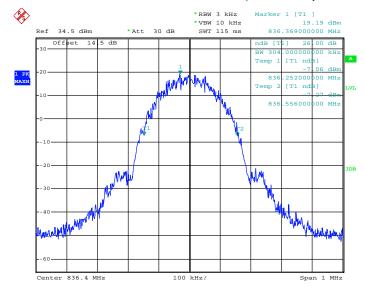
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 38 of 95
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99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 29.JAN.2015 10:40:57

26dB Bandwidth Plot on Channel 189 (836.4 MHz)

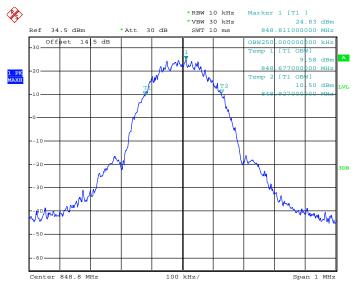


Date: 29.JAN.2015 10:37:50

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 39 of 95 Report Issued Date : Mar. 12, 2015

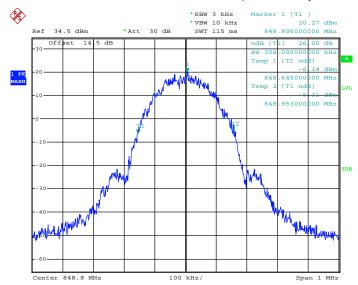
Report No.: FG512804

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



Date: 29.JAN.2015 10:41:40

26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 29.JAN.2015 10:38:29

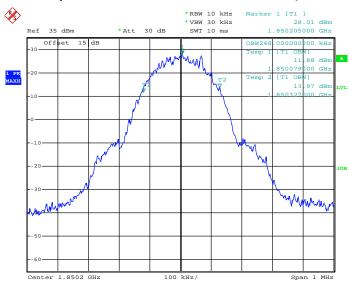
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 40 of 95 Report Issued Date : Mar. 12, 2015

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

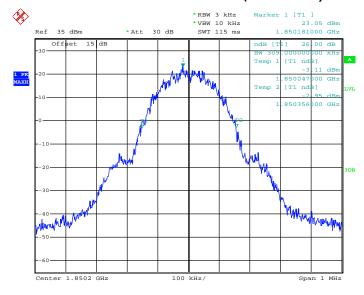
99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)

Report No. : FG512804



Date: 29.JAN.2015 10:06:02

26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



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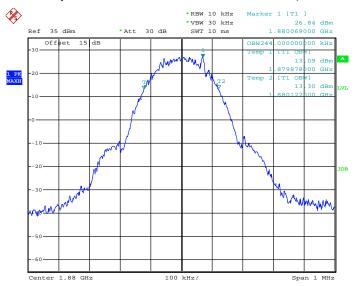
: Rev. 01

Report Issued Date: Mar. 12, 2015

Date: 29.JAN.2015 10:03:40

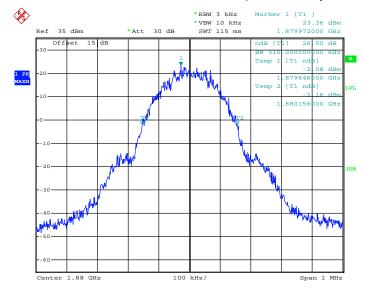
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL

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



Date: 29.JAN.2015 10:06:38

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 29.JAN.2015 10:04:15

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 42 of 95
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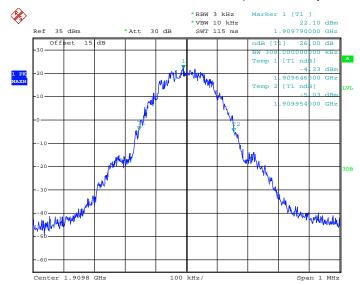
Report No.: FG512804

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



Date: 29.JAN.2015 10:07:30

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



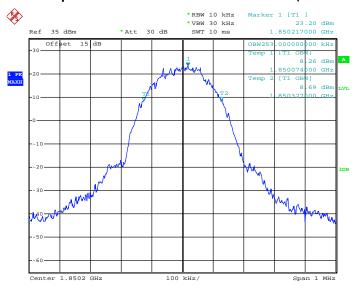
Date: 29.JAN.2015 10:04:49

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 43 of 95
Report Issued Date : Mar. 12, 2015

Report No.: FG512804

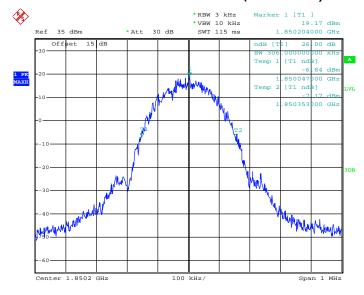
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

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



Date: 29.JAN.2015 10:56:58

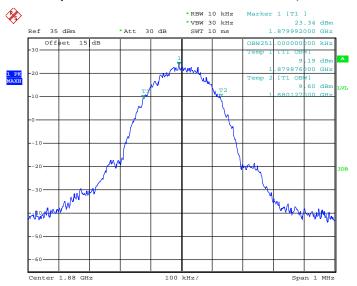
26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 29.JAN.2015 10:51:44

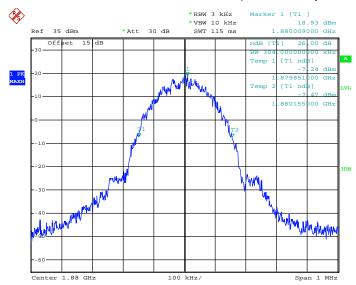
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 44 of 95
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99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 29.JAN.2015 10:57:47

26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

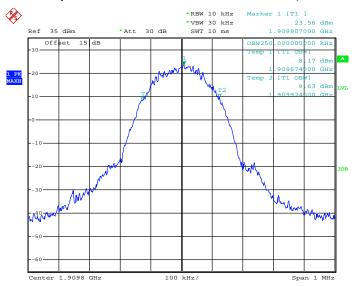


Date: 29.JAN.2015 10:52:30

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 45 of 95
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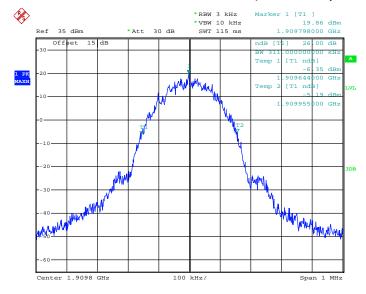
Report No.: FG512804

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



Date: 29.JAN.2015 10:58:34

26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 29.JAN.2015 10:53:15

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 46 of 95
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Report No.: FG512804

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

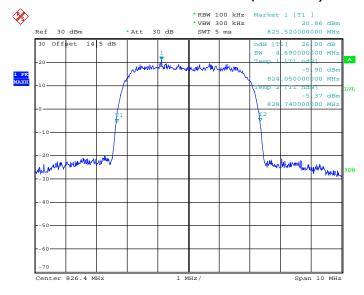
99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)

Report No. : FG512804



Date: 29.JAN.2015 11:35:37

26dB Bandwidth Plot on Channel 4132 (826.4 MHz)



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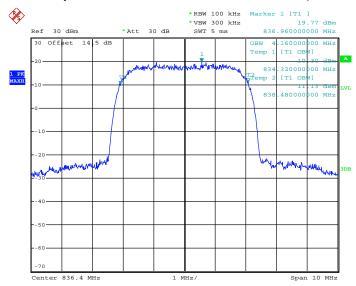
: Rev. 01

Report Issued Date: Mar. 12, 2015

Date: 29.JAN.2015 11:31:38

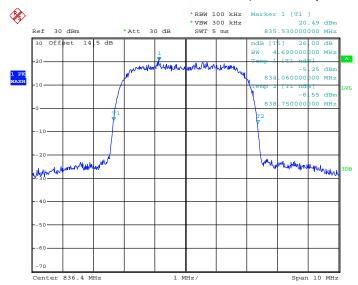
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL

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



Date: 29.JAN.2015 11:37:05

26dB Bandwidth Plot on Channel 4182 (836.4 MHz)

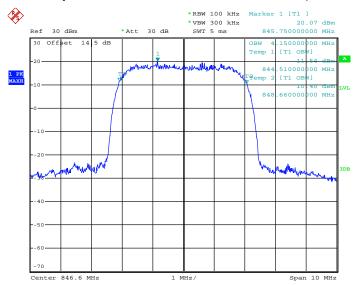


Date: 29.JAN.2015 11:32:25

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 48 of 95 Report Issued Date : Mar. 12, 2015

Report No.: FG512804

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



Date: 29.JAN.2015 11:39:21

26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



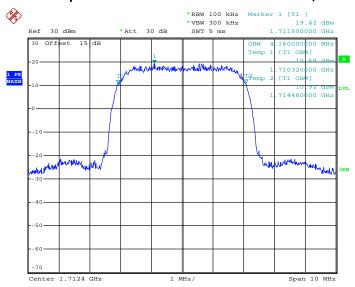
Date: 29.JAN.2015 11:33:36

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 49 of 95 Report Issued Date : Mar. 12, 2015

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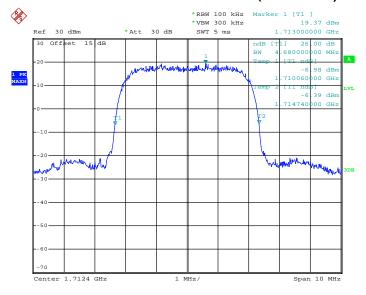
Band: WCDMA Band IV Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 29.JAN.2015 14:09:45

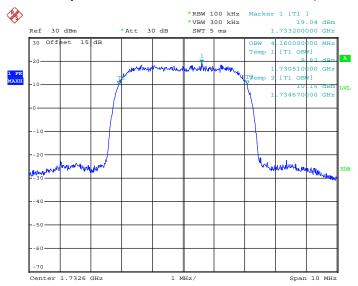
26dB Bandwidth Plot on Channel 1312 (1712.4 MHz)



Date: 29.JAN.2015 14:07:26

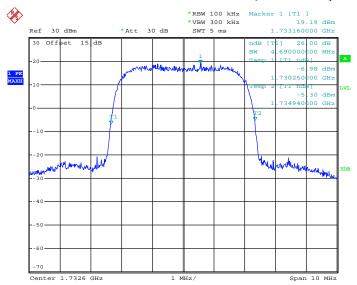
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 50 of 95
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99% Occupied Bandwidth Plot on Channel 1413 (1732.6 MHz)



Date: 29.JAN.2015 14:10:20

26dB Bandwidth Plot on Channel 1413 (1732.6 MHz)



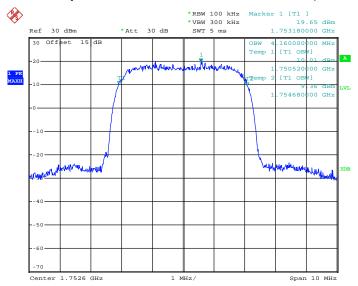
Date: 29.JAN.2015 14:08:09

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 51 of 95
Report Issued Date : Mar. 12, 2015

Report No.: FG512804

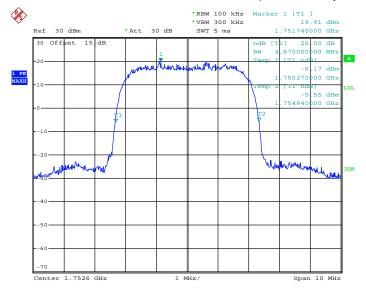
99% Occupied Bandwidth Plot on Channel 1513 (1752.6 MHz)

Report No.: FG512804



Date: 29.JAN.2015 14:11:13

26dB Bandwidth Plot on Channel 1513 (1752.6 MHz)



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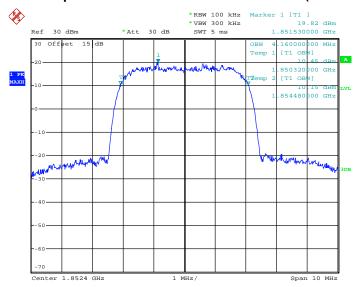
: Rev. 01

Report Issued Date: Mar. 12, 2015

Date: 29.JAN.2015 14:08:52

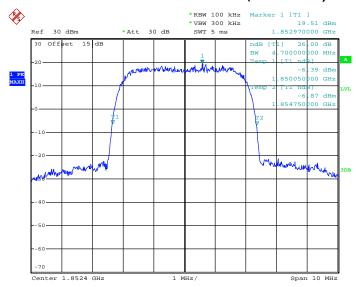
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

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



Date: 29.JAN.2015 13:50:50

26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)

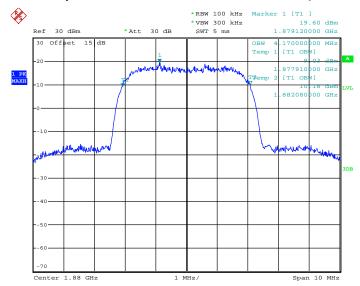


Date: 29.JAN.2015 13:44:13

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 53 of 95 Report Issued Date : Mar. 12, 2015

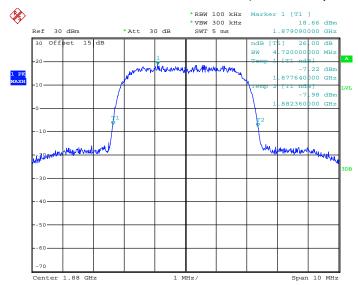
Report No. : FG512804

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



Date: 29.JAN.2015 13:48:22

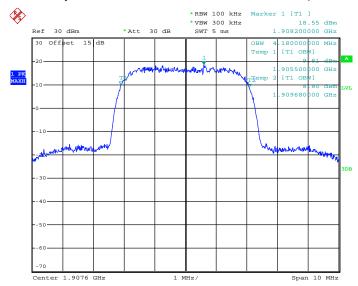
26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 29.JAN.2015 13:44:52

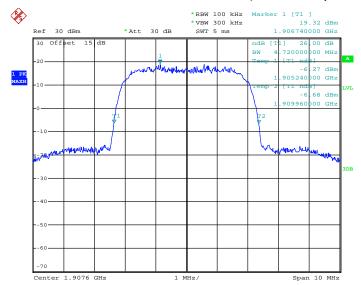
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 54 of 95
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99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 29.JAN.2015 13:48:59

26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 29.JAN.2015 13:45:35

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 55 of 95 Report Issued Date : Mar. 12, 2015

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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

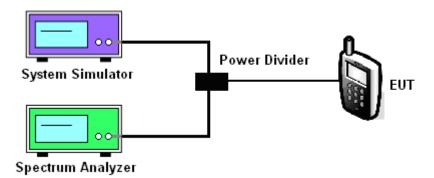
The measuring equipment is listed in the section 4 of this test report.

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 >



SPORTON INTERNATIONAL (SHENZHEN) INC.

FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL

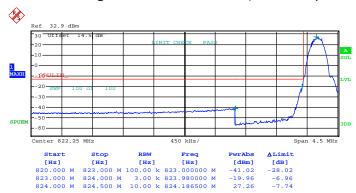
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band: GSM850 Test Mode: GSM Link (GMSK)	Band :	GSM850	Test Mode :	GSM Link (GMSK)
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Lower Band Edge Plot on Channel 128 (824.2 MHz)



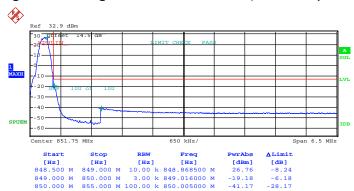
Date: 29.JAN.2015 10:22:12

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 57 of 95
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Band: GSM850 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)

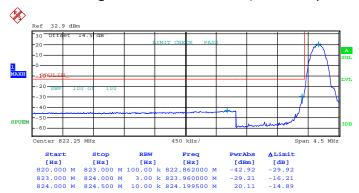


Date: 29.JAN.2015 10:25:24

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 58 of 95
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Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 128 (824.2 MHz)

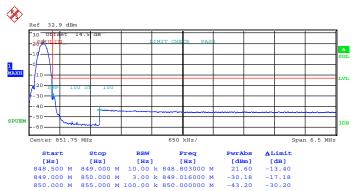


Date: 29.JAN.2015 10:49:06

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 59 of 95
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Band: GSM850 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 251 (848.8 MHz)



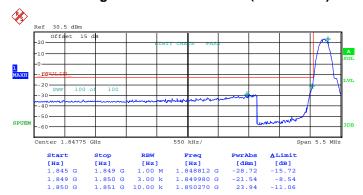
Date: 29.JAN.2015 10:46:25

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 60 of 95 Report Issued Date: Mar. 12, 2015

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Band: GSM1900 Test Mode: GSM Link (GMSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

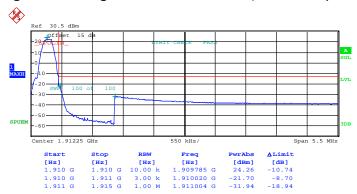


Date: 29.JAN.2015 10:28:34

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 61 of 95
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Band: GSM1900 Test Mode: GSM Link (GMSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

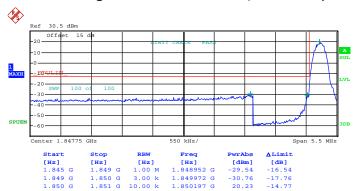


Date: 29.JAN.2015 10:31:20

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 62 of 95
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Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Lower Band Edge Plot on Channel 512 (1850.2 MHz)

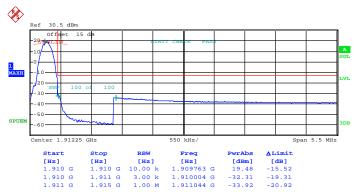


Date: 29.JAN.2015 11:12:53

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 63 of 95
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Band: GSM1900 Test Mode: EDGE class 8 Link (8PSK)

Higher Band Edge Plot on Channel 810 (1909.8 MHz)

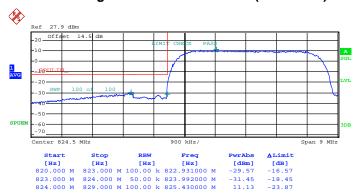


Date: 29.JAN.2015 11:10:24

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 64 of 95
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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: 29.JAN.2015 12:00:22

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 65 of 95
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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)

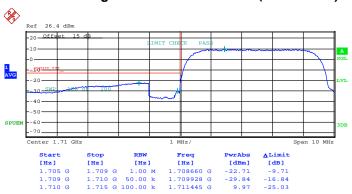


Date: 29.JAN.2015 12:20:33

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 66 of 95
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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)

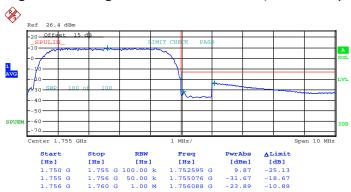


Date: 29.JAN.2015 14:18:37

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 67 of 95
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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)

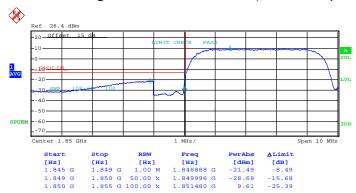


Date: 29.JAN.2015 14:21:41

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 68 of 95
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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)

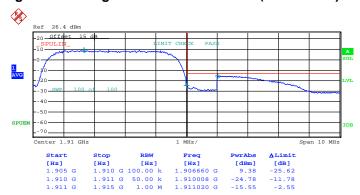


Date: 29.JAN.2015 14:03:28

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 69 of 95
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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: 29.JAN.2015 13:57:44

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLULIFE8XL Page Number : 70 of 95
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3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

3.6.4 Test Setup

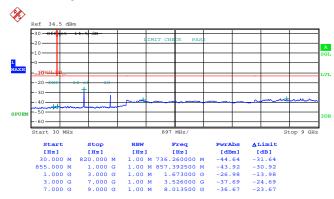


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3.6.5 Test Result (Plots) of Conducted Spurious Emission

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

Conducted Spurious Emission Plot between 30MHz ~ 9GHz



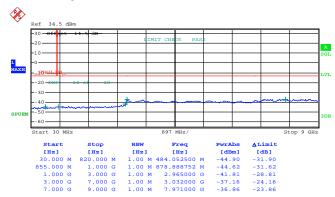
Date: 29.JAN.2015 09:58:27

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Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

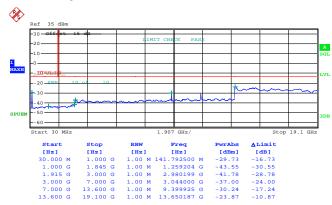


Date: 29.JAN.2015 10:42:48

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

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz

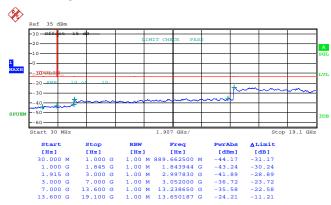


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Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz

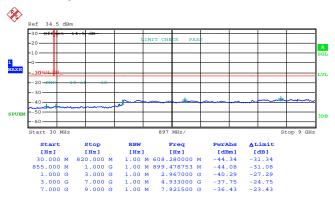


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Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

Conducted Spurious Emission Plot between 30MHz ~ 9GHz

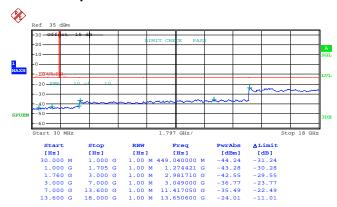


Date: 29.JAN.2015 11:54:39

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

Conducted Spurious Emission Plot between 30MHz ~ 18GHz

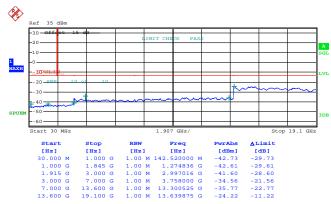


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Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 19.1GHz



Date: 29.JAN.2015 13:52:40

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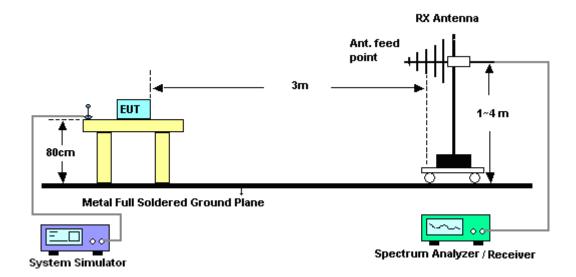
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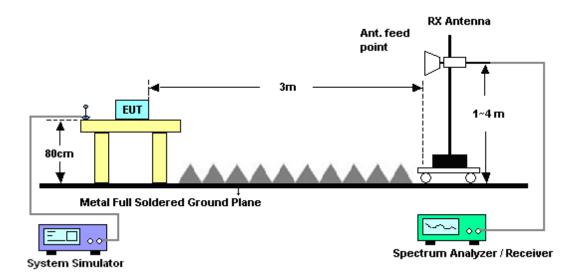
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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 :		GSM850)			Temperature	:	23~25°C			
Test Mode :	:	GSM Lin	k (GMSK)			Relative Hun	nidity :	50~5	50~53%		
Test Engine	er:	Sam Li	Sam Li Polarization : Horizontal						ontal		
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.											
Frequency	ER	P Lim	it Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result	
			Limit	Reading	Power	loss	Ga	in			
(MHz)	(dBr	n) (dBr	n) (dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)		
1672	-57.4	47 -13	-44.47	-54.82	-62.46	0.66	7.8	0	Н	Pass	
2510	-57.9	94 -13	-44.94	-58.12	-64.34	0.85	9.4	-0	Н	Pass	
3346	-63.2	21 -13	-50.21	-63.02	-69.28	0.98	9.2	20	Н	Pass	

Band :	G	SM850				Temperature	23~25°C			
Test Mode	: G	SSM Link (GMSK)			Relative Hum	50~53%			
Test Engine	eer : S	Sam Li				Polarization		Vertio	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)	(dB	i)	(H/V)	
1672	-59.29	9 -13	-46.29	-55.77	-64.28	0.66	7.8	0	V	Pass
2510	-61.59	-13	-48.59	-62.27	-67.99	0.85	9.4	0	V	Pass
3346	-61.93	3 -13	-48.93	-62.79	-68.00	0.98	9.2	0	V	Pass

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Band :	G	SM850				Temperature	:	23~2	5°C	
Test Mode	: E	DGE class	8 Link ((8PSK)		Relative Hum	50~5	3%		
Test Engine	eer : S	Sam Li Polarization : Horizontal								
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)	(dB	i)	(H/V)	
1672	-41.51	-13	-28.51	-42.78	-46.50	0.66	7.8	0	Н	Pass
2510	-59.92	-13	-46.92	-60.10	-66.32	0.85	9.4	0	Н	Pass
3346	-62.55	5 -13	-49.55	-62.36	-68.62	0.98	9.2	0	Н	Pass

Band :		GSM850				Temperature	:	23~25°C		
Test Mode	:	EDGE class	s 8 Link ((8PSK)		Relative Hum	50~5	3%		
Test Engine	eer :	Sam Li Polarization : Vertical						al		
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.										
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1672	-58.6	68 -13	-45.68	-50.17	-63.67	0.66	7.8	0	V	Pass
2510	-59.0	03 -13	-46.03	-59.71	-65.43	0.85	9.4	0	V	Pass
3346	-61.6	64 -13	-48.64	-62.50	-67.71	0.98	9.2	0	V	Pass

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Band :		GSM1900				Temperature	:	23~25°C		
Test Mode :		GSM Link (GMSK)			Relative Hum	50~5	3%		
Test Engine	eer:	Sam Li Polarization						Horiz	ontal	
Remark :		Spurious emissions within 30-1000MHz were found more than 20dB below limit line.								
Frequency	EIR	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3760	-44.(9 -13	-31.09	-57.88	-52.48	1.01	9.4	0	Н	Pass
5640	-41.7	79 -13	-28.79	-58.54	-50.79	1.2	10.2	20	Н	Pass
7520	-40.1	19 -13	-27.19	-59.82	-46.85	1.84	8.5	0	Н	Pass

Band :	G	SM1900				Temperature	23~25°C			
Test Mode	: G	SM Link (GMSK)			Relative Hum	50~5	3%		
Test Engine	eer : Sa	am Li				Polarization	:	Vertical		
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)	
3760	-44.89	-13	-31.89	-57.9	-53.28	1.01	9.4	1	V	Pass
5640	-44.29	-13	-31.29	-59.53	-53.29	1.2	10.	2	V	Pass
7520	-41.04	-13	-28.04	-62.09	-47.70	1.84	8.5	_	V	Pass

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Band :		GSM1900				Temperature	:	23~2	5°C	
Test Mode :		EDGE class	8 Link ((8PSK)		Relative Humidity: 5		50~5	50~53%	
Test Engine	er:	Sam Li				Polarization :		Horiz	orizontal	
Remark :		Spurious en	nissions	within 30-1	1000MHz	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	-47.9	90 -13	-34.90	-61.01	-56.29	1.01	9.4	0	Н	Pass
5640	-48.0)8 -13	-35.08	-63.62	-57.08	1.2	10.2	20	Н	Pass
7520	-42.0)8 -13	-29.08	-61.36	-48.74	1.84	8.5	0	Н	Pass

Band :	(GSM1900				Temperature	:	23~2	5°C	
Test Mode :	: E	EDGE class	8 Link ((8PSK)		Relative Humidity :		50~53%		
Test Engine	eer :	Sam Li				Polarization :		Vertical		
Remark :	Ş	Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX An	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBm	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3760	-50.8	0 -13	-37.80	-62.93	-59.19	1.01	9.4	4	V	Pass
5640	-49.4	8 -13	-36.48	-63.89	-58.48	1.2	10	2	V	Pass
7520	-42.0	8 -13	-29.08	-63.13	-48.74	1.84	8.	5	V	Pass

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Band :	/	NCDMA Ba	ınd V			Temperature	:	23~2	5°C	
Test Mode	: I	RMC 12.2K	bps Link	(QPSK)		Relative Humidity : 5		50~53%		
Test Engine	eer :	Sam Li				Polarization :		Horiz	orizontal	
Remark :	Ş	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ERF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
1672	-58.1	8 -13	-45.18	-55.53	-63.17	0.66	7.8	0	Н	Pass
2510	-61.9	2 -13	-48.92	-62.10	-68.32	0.85	9.4	0	Н	Pass
3346	-62.6	7 -13	-49.67	-62.48	-68.74	0.98	9.2	0	Н	Pass

Band :		WCDMA Ba	and V			Temperature	:	23~2	5°C	
Test Mode :		RMC 12.2K	bps Link	(QPSK)		Relative Humidity :		50~53%		
Test Engine	er:	Sam Li				Polarization :		Vertic	cal	
Remark :		Spurious er	missions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	ER	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBr	m) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
1672	-60.	10 -13	-47.10	-56.58	-65.09	0.66	7.8	0	V	Pass
2510	-62.0	04 -13	-49.04	-62.72	-68.44	0.85	9.4	0	V	Pass
3346	-62.2	20 -13	-49.20	-63.06	-68.27	0.98	9.2	0	V	Pass

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Band :		WC	DMA Ba	ınd IV			Temperature	:	23~25°C		
Test Mode	:	RM	C 12.2K	bps Link	(QPSK)		Relative Humidity :		50~53%		
Test Engin	eer :	Sar	Sam Li				Polarization :		Horiz	Horizontal	
Remark :		Spu	ırious 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	m)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	Bi)	(H/V)	
3465	-45.4	42	-13	-32.42	-60.54	-52.32	1.4	8.3	0	Н	Pass
5197.5	-44.3	35	-13	-31.35	-63.58	-53.00	1.65	10.3	30	Н	Pass
6930	-40.3	34	-13	-27.34	-64.01	-50.89	1.85	12.4	40	Н	Pass

Band :	V	VCDMA Ba	ınd IV			Temperature	:	23~2	5°C	
Test Mode :	: F	RMC 12.2K	bps Link	(QPSK)		Relative Humidity :		50~53%		
Test Engine	er:	Sam Li				Polarization :		Vertical		
Remark :	5	Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRF	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)	
3465	-42.2	7 -13	-29.27	-59.07	-49.17	1.4	8.3	3	V	Pass
5197.5	-45.9	1 -13	-32.91	-63.89	-54.56	1.65	10.	3	V	Pass
6930	-41.3	0 -13	-28.30	-63.85	-51.85	1.85	12.	4	V	Pass

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Band :	\	VCDMA Ba	and II			Temperature	:	23~2	5°C	
Test Mode	: F	RMC 12.2K	bps Link	(QPSK)		Relative Humidity:		50~53%		
Test Engine	eer :	Sam Li				Polarization :		Horiz	Horizontal	
Remark :	9	Spurious er	nissions	within 30-1	000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRF	Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Gai	in		
(MHz)	(dBm) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dB	i)	(H/V)	
3760	-39.8	0 -13	-26.80	-53.90	-48.19	1.01	9.4	0	Н	Pass
5640	-48.2	4 -13	-35.24	-63.78	-57.24	1.2	10.2	20	Н	Pass
7520	-44.6	3 -13	-31.63	-63.55	-51.29	1.84	8.5	0	Н	Pass

Band :	\	NCDMA Ba	ınd II			Temperature	:	23~2	5°C	
Test Mode :	: 1	RMC 12.2K	bps Link	(QPSK)		Relative Humidity :		50~53%		
Test Engine	eer :	Sam Li				Polarization :		Vertical		
Remark :	Ş	Spurious en	nissions	within 30-1	1000MHz	were found m	ore tha	n 20d	B below limit	line.
Frequency	EIRE	P Limit	Over	SPA	S.G.	TX Cable	TX Ant	enna	Polarization	Result
			Limit	Reading	Power	loss	Ga	in		
(MHz)	(dBn	n) (dBm)	(dB)	(dBm)	(dBm)	(dB)	(dE	i)	(H/V)	
3760	-41.4	7 -13	-28.47	-54.75	-49.86	1.01	9.4	1	V	Pass
5640	-49.2	3 -13	-36.23	-63.64	-58.23	1.2	10.	2	V	Pass
7520	-42.5	4 -13	-29.54	-63.59	-49.20	1.84	8.9	5	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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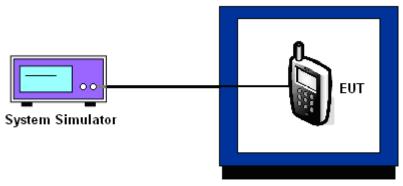
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3.8.5 Test Setup



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	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0179	0.0155	
40	0.0096	0.0096	
30	0.0060	0.0036	
20(Ref.)	0.0000	0.0000	
10	0.0036	0.0048	PASS
0	0.0000	0.0000	
-10	0.0048	0.0024	
-20	0.0072	0.0024	
-30	0.0084	0.0060	

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

	GSM	EDGE class 8	
Temperature (°C)	Deviation (ppm)	Deviation (ppm)	Result
50	0.0138	0.0117	
40	0.0117	0.0069	
30	0.0074	0.0037	
20(Ref.)	0.0000	0.0000	
10	0.0016	0.0037	PASS
0	0.0016	0.0021	
-10	0.0000	0.0021	
-20	0.0250	0.0005	
-30	0.0261	0.0021	

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	0.0072		
40	0.0000		
30	0.0000		
20(Ref.)	0.0000		
10	0.0072	PASS	
0	0.0000		
-10	0.0012		
-20	0.0000		
-30	0.0000		

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

_ ,	RMC 12.2Kbps	Result	
Temperature (°C)	Deviation (ppm)		
50	0.0087		
40	0.0075		
30	0.0006		
20(Ref.)	0.0000		
10	0.0017	PASS	
0	0.0075		
-10	0.0081		
-20	0.0063		
-30	0.0069		

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	0.0043	
40	0.0027	
30	0.0011	
20(Ref.)	0.0000	
10	0.0011	PASS
0	0.0005	
-10	0.0021	
-20	0.0016	
-30	0.0027	

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 Deviation (Volt) (ppm)		Limit (ppm)	Result
	GSM	3.80	0.0000		
		BEP	0.0012		
GSM 850		4.35	0.0036	2.5	
CH189	5005	3.80	0.0000	2.5	
	EDGE class 8	BEP	0.0024		
	01455 0	4.35	0.0048		
		3.80	0.0000		
	GSM	BEP	0.0021		PASS
GSM 1900		4.35	0.0011	(Note 2.)	
CH661	EDGE class 8	3.80	0.0000	(Note 3.)	
		BEP	0.0005		
		4.35	0.0016		
\\(\(\text{ODMAR}\)		3.80	0.0000		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	0.0072	2.5	
0114102	12.21000	4.35	0.0000		
14/0D144 B	RMC 12.2Kbps	3.80	0.0000		
WCDMA Band IV CH1413		BEP	0.0006	(Note 3.)	
		4.35	0.0017		
		3.80	0.0000		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	0.0000	(Note 3.)	
G113400	12.211000	4.35	0.0011		

Note:

- 1. Normal Voltage = 3.80V.
- 2. Battery End Point (BEP) = 3.60 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	FSP30	101400	9kHz~30GHz	Mar. 03, 2014	Jan. 29, 2015	Mar. 02, 2015	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	May 08, 2014	Jan. 29, 2015	May 07, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhangroup	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Jan. 29, 2015	Feb. 20, 2015	Conducted (TH01-SZ)
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Feb. 12, 2015	Feb. 20, 2015	Radiation (03CH02-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Feb. 12, 2015	May 25, 2015	Radiation (03CH02-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Feb. 12, 2015	Oct. 14, 2015	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 20, 2015	Feb. 12, 2015	Jan. 19, 2016	Radiation (03CH02-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101071	18GHz~40GHz	Sep. 04, 2014	Feb. 12, 2015	Sep. 03, 2015	Radiation (03CH02-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Feb. 12, 2015	Feb. 20, 2015	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 29, 2014	Feb. 12, 2015	Oct. 28, 2015	Radiation (03CH02-SZ)
AC Source(AVR)	CHROMA	61601ACSO URCE	61601000247 0	100Vac~240Vac	NCR	Feb. 12, 2015	NCR	Radiation (03CH02-SZ)
Turn Table	Qiangdian	3000	N/A	0~360 degree	NCR	Feb. 12, 2015	NCR	Radiation (03CH02-SZ)
Antenna Mast	Qiangdian	3000	N/A	1 m~4 m	NCR	Feb. 12, 2015	NCR	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Jul. 17, 2014	Feb. 13, 2015	Jul. 16, 2015	ERP/EIRP (OTA02-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MH z	N/A	Feb. 13, 2015	N/A	ERP/EIRP (OTA02-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	N/A	Feb. 13, 2015	N/A	ERP/EIRP (OTA02-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	N/A	Feb. 13, 2015	N/A	ERP/EIRP (OTA02-SZ)

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5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	4.5 dB
Confidence of 95% (U = 2Uc(y))	4.5 UB

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